



Analytical Resources, LLC
Analytical Chemists and Consultants

12 April 2023

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

RE: AOC5 MR Phase 1

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

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

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

Associated Work Order(s)
23A0180

Associated SDG ID(s)
N/A

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

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

Analytical Resources, LLC

Susan Dunninghoo, Director, Client Services

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



23A0180

1 of 2

CHAIN-OF-CUSTODY/TEST REQUEST FORM

No 3962

Project/Client Name: AOC5 MR Phase 1
 Project Number: 210075.01.02
 Contact Name: Amara Vandervort
 Sampled By: Windward

Ship to: ARL
 Attn: Sve Durn hood Shipping Date: 1/10/23
 Shipper: Courier Airbill Number: _____
 Form filled out by: AVICC Turnaround requested: STD

| Sample Collection Date (m/d/y) | Time | Sample Identification | Volume of Sample / # of Containers | Matrix | Test(s) Requested (check test(s) required) | | | | | | | Comments / Instructions [Jar tag number(s)] |
|--------------------------------|------|-----------------------|------------------------------------|----------|--|-----------|------------|------------------|-----|---------|---|---|
| | | | | | PCB | SMS SVOCs | SMS Metals | TOC Total Solids | DIF | Archive | | |
| 1/10/23 | 0805 | LDW23-SC1164 | 4 | Sediment | X | X | X | X | NA | X | | |
| | 0805 | LDW23-SC1164+FD | 4 | | X | X | X | X | NA | X | | |
| | 0833 | LDW23-SC1158 | 4 | | X | X | X | X | NA | X | | |
| | 0907 | LDW23-SC1151 | 4 | | X | X | X | X | NA | X | | |
| | 0939 | LDW23-SC1145 | 3 | | X | 1 | 1 | X | 1 | X | | |
| | 1010 | LDW23-SC1139 | 3 | | X | 1 | 1 | X | 1 | X | | |
| | 1108 | LDW23-SC1066 | 3 | | X | 1 | 1 | X | 1 | X | | |
| | 1045 | LDW23-SC1061 | 3 | | X | 1 | 1 | X | 1 | X | | |
| | 1135 | LDW23-SC1117 | 3 | | X | 1 | 1 | X | 1 | X | | |
| | 1226 | LDW23-SC1093 | 3 | | X | 1 | 1 | X | 1 | X | | |
| | 1251 | LDW23-SC1094 | 3 | | X | 1 | 1 | X | 1 | X | | |
| 1/10/23 | 1323 | LDW23-SC1103 | 3 | | Sediment | X | 1 | 1 | X | 1 | X | |
| Total Number of Containers | | | 40 | | Purchase Order / Statement of Work # APJ-110222-AOC5-ARL | | | | | | | |

| | | | |
|--|---|--|--|
| 1) Released by: <u>Amara Vandervort</u> Print name: <u>Amara Vandervort</u> Signature: <u>[Signature]</u> Company: <u>Windward</u> Date/Time: <u>1/10/23 16:45</u> | 1) Rec'd by: <u>YARED</u> Print name: <u>YARED</u> Signature: <u>[Signature]</u> Company: <u>YA YA SAFETY</u> Date/Time: <u>01/10/23 4:45</u> | 2) Released by: <u>YARED</u> Print name: <u>YARED</u> Signature: <u>[Signature]</u> Company: <u>YA YA SAFETY</u> Date/Time: <u>01/10/23 1714</u> | 2) Rec'd by: <u>Jacob Leithe</u> Print name: <u>Jacob Leithe</u> Signature: <u>[Signature]</u> Company: <u>AR, LLC</u> Date/Time: <u>01/10/23 1714</u> |
|--|---|--|--|

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



200 1st Ave W, Suite 500
 Seattle, WA 98119
 206.378.1364

To be completed by Laboratory upon sample receipt:

| | |
|-------------------------|--------------------|
| Date of receipt:: | Laboratory W.O. #: |
| Condition upon receipt: | Time of receipt: |
| Cooler temperature: | Received by: |

23A0180
2 of 2

CHAIN-OF-CUSTODY/TEST REQUEST FORM

No 4216

Project/Client Name: AOCS MR Phase 1
 Project Number: 210075.01.02
 Contact Name: Amara Vandervoort
 Sampled By: Windward

Ship to: ARL
 Attn: Sve Durnhoo Shipping Date: 1/10/23
 Shipper: Carrier Airbill Number: _____
 Form filled out by: AVLCC Turnaround requested: std

| Sample Collection Date (m/d/y) | Time | Sample Identification | Volume of Sample / # of Containers | Matrix | Test(s) Requested (check test(s) required) | | | | | | Comments / Instructions (Jar tag number(s)) |
|-----------------------------------|------|-----------------------|------------------------------------|---|--|-----------|------------|--------------------|----|---------|---|
| | | | | | PCB | Sms SVOCs | Sms metals | TOC / Total Solids | DF | Archive | |
| 1/10/23 | 1353 | LDW23-SC1100 | 3 | Sediment | X | 1 | 1 | X | 1 | X | |
| | ↓ | LDW23-SC1101 | 3 | ↓ | X | 1 | 1 | X | 1 | X | |
| 1/10/23 | 1524 | LDW23-SC1096 | 3 | Sediment | X | 1 | 1 | X | 1 | X | |
| <i>AV</i> 1/10/23 | | | | | | | | | | | |
| Total Number of Containers | | | 9 | Purchase Order / Statement of Work # APJ-110222-AOCS-ARL | | | | | | | |

| | | | |
|--|---|--|--|
| 1) Released by: <u>Amara Vandervoort</u> Print name: <u>Amara Vandervoort</u> Signature: <u>[Signature]</u> Company: <u>Windward</u> Date/Time: <u>1/10/23 16:45</u> | 1) Rec'd by: <u>YARED</u> Print name: <u>YARED</u> Signature: <u>[Signature]</u> Company: <u>YA YA SAFETY</u> Date/Time: <u>01/10/23 4:45</u> | 2) Released by: <u>YARED</u> Print name: <u>YARED</u> Signature: <u>[Signature]</u> Company: <u>YA YA SAFETY</u> Date/Time: <u>01/10/23 1710</u> | 2) Rec'd by: <u>Jacob Walte</u> Print name: <u>Jacob Walte</u> Signature: <u>[Signature]</u> Company: <u>AR, LLC</u> Date/Time: <u>01/10/23 1710</u> |
|--|---|--|--|

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



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 206.378.1364

To be completed by Laboratory upon sample receipt:

| | |
|-------------------------|--------------------|
| Date of receipt:: | Laboratory W.O. #: |
| Condition upon receipt: | Time of receipt: |
| Cooler temperature: | Received by: |



Cooler Receipt Form

ARI Client: Anchar
 COC No(s): 3962 44216 NA
 Assigned ARI Job No: 23A0180

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

Preliminary Examination Phase:

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

Time 1710 5.7 3.1 3.9
 If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: 3009708

Cooler Accepted by: JS- Date: 01/10/23 Time: 1710

Complete custody forms and attach all shipping documents

Log-In Phase:

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

Samples Logged by: Shirley Smith Date: 01/11/23 Time: 8:33 Labels checked by: TLS

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

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

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Anchor QEA, LLC

1201 3rd Ave, Suite 2600

Seattle, WA 98101

Project: AOC5 MR Phase 1

Project Number: 210075-01.02

Project Manager: Ali Judkins

Reported:

04/12/2023 12:11

ANALYTICAL REPORT FOR SAMPLES

| Laboratory ID | Sample ID | Matrix | Date Sampled | Date Received |
|---------------|-----------------|--------|----------------|----------------|
| 23A0180-01 | LDW23-SC1164 | Solid | 01/10/23 08:05 | 01/10/23 17:10 |
| 23A0180-02 | LDW23-SC1164-FD | Solid | 01/10/23 08:05 | 01/10/23 17:10 |
| 23A0180-03 | LDW23-SC1158 | Solid | 01/10/23 08:33 | 01/10/23 17:10 |
| 23A0180-04 | LDW23-SC1151 | Solid | 01/10/23 09:07 | 01/10/23 17:10 |
| 23A0180-05 | LDW23-SC1145 | Solid | 01/10/23 09:39 | 01/10/23 17:10 |
| 23A0180-06 | LDW23-SC1139 | Solid | 01/10/23 10:10 | 01/10/23 17:10 |
| 23A0180-07 | LDW23-SC1066 | Solid | 01/10/23 11:08 | 01/10/23 17:10 |
| 23A0180-08 | LDW23-SC1061 | Solid | 01/10/23 10:45 | 01/10/23 17:10 |
| 23A0180-09 | LDW23-SC1117 | Solid | 01/10/23 11:35 | 01/10/23 17:10 |
| 23A0180-10 | LDW23-SC1093 | Solid | 01/10/23 12:26 | 01/10/23 17:10 |
| 23A0180-11 | LDW23-SC1094 | Solid | 01/10/23 12:51 | 01/10/23 17:10 |
| 23A0180-12 | LDW23-SC1103 | Solid | 01/10/23 13:23 | 01/10/23 17:10 |
| 23A0180-13 | LDW23-SC1100 | Solid | 01/10/23 13:53 | 01/10/23 17:10 |
| 23A0180-14 | LDW23-SC1101 | Solid | 01/10/23 14:13 | 01/10/23 17:10 |
| 23A0180-15 | LDW23-SC1096 | Solid | 01/10/23 15:24 | 01/10/23 17:10 |



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

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

Reported:
12-Apr-2023 12:11

Case Narrative

Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Work Order: 23A0180

Sample receipt

Samples as listed on the preceding page were received 10-Jan-2023 17:10 under ARI work order 23A0180. For details regarding sample receipt, please refer to the Cooler Receipt Form. Samples were frozen on receipt to preserve holding times.

Semivolatiles - EPA Method SW8270E

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

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

Internal standard areas were within limits.

The surrogate percent recoveries were within control limits.

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

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

The batch BLC0442 matrix spike/matrix spike duplicate (MS/MSD) percent recoveries and relative percent difference (RPD) were within advisory control limits, reported under work order 23A0179.

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

Semivolatiles - EPA Method SW8270E-SIM

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

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

Internal standard areas were within limits.

The surrogate percent recoveries were within control limits.

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

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

The batch BLC0442 matrix spike (MS) percent recovery for pentachlorophenol was high of advisory control limits. The relative



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Project: AOC5 MR Phase 1
Project Number: 210075-01.02
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Reported:
12-Apr-2023 12:11

Case Narrative

percent difference (RPD) for 2,4-dimethylphenol was high of advisory control limits and flagged on the summary sheet, reported under work order 23A0179.

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

Pesticides - EPA Method SW8081B (Hexachlorobenzene)

The sample(s) were extracted and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

Internal standard areas were within limits.

The surrogate percent recoveries were within control limits.

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

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

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

PCB Aroclors - EPA Method SW8082A

The sample(s) were extracted and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

Internal standard areas were within limits.

The surrogate percent recoveries were within control limits.

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

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

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

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

Total Metals - EPA Method 6020B

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

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

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

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



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Reported:
12-Apr-2023 12:11

Case Narrative

control limits.

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

Total Mercury - EPA Method 7471B

The sample(s) were digested and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

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

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

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

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

Wet Chemistry (Total Organic Carbon and Total Solids)

The sample(s) were prepared and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

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

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

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

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



QUALIFIERS AND NOTES

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



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

Laboratory: Analytical Resources, LLC

Client: Anchor OEA, LLC

Project: AOC5 MR Phase 1

Matrix: Sediment

Laboratory ID: 23A0180-01RE1 A

SDG: 23A0180

Sampled: 01/10/23 08:05

Prepared: 03/17/23 11:16

File ID: NT1003222329.D

% Solids: 51.36

Preparation: EPA 3546 (Microwave)

Analyzed: 03/23/23 10:49

Batch: BLC0442

Sequence: SLC0397

Initial/Final: 19.47 g Wet / 1 mL

Instrument: NT10

Column: ZB-5MSi

Calibration: GC00046

Cleanups: GPC

| CAS NO. | COMPOUND | DILUTION | CONC: (ug/kg dry) | Q | DL | RL |
|----------|-----------------------------|----------|----------------------|---|------|------|
| 108-95-2 | Phenol | 1 | 120 | | 4.4 | 20.0 |
| 106-44-5 | 4-Methylphenol | 1 | 11.3 | J | 7.4 | 20.0 |
| 91-20-3 | Naphthalene | 1 | 11.2 | J | 4.2 | 20.0 |
| 91-57-6 | 2-Methylnaphthalene | 1 | 11.7 | J | 4.5 | 20.0 |
| 208-96-8 | Acenaphthylene | 1 | 12.5 | J | 6.2 | 20.0 |
| 131-11-3 | Dimethylphthalate | 1 | 12.6 | J | 4.4 | 20.0 |
| 83-32-9 | Acenaphthene | 1 | 8.3 | J | 5.2 | 20.0 |
| 132-64-9 | Dibenzofuran | 1 | 20.0 | U | 14.1 | 20.0 |
| 86-73-7 | Fluorene | 1 | 20.0 | U | 14.6 | 20.0 |
| 85-01-8 | Phenanthrene | 1 | 90.7 | | 8.7 | 20.0 |
| 120-12-7 | Anthracene | 1 | 35.2 | | 7.2 | 20.0 |
| 206-44-0 | Fluoranthene | 1 | 198 | | 6.1 | 20.0 |
| 129-00-0 | Pyrene | 1 | 399 | | 5.7 | 20.0 |
| 85-68-7 | Butylbenzylphthalate | 1 | 27.3 | | 9.4 | 20.0 |
| 56-55-3 | Benzo(a)anthracene | 1 | 112 | | 6.0 | 20.0 |
| 218-01-9 | Chrysene | 1 | 171 | | 6.1 | 20.0 |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 1 | 165 | | 5.5 | 50.0 |
| | Benzo(a)fluoranthene, Total | 1 | 475 | | 10.0 | 40.0 |
| 50-32-8 | Benzo(a)pyrene | 1 | 189 | | 4.2 | 20.0 |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 1 | 99.8 | | 14.7 | 20.0 |
| 53-70-3 | Dibenzo(a,h)anthracene | 1 | 38.1 | | 17.2 | 20.0 |
| 191-24-2 | Benzo(g,h,i)perylene | 1 | 104 | | 13.6 | 20.0 |

| SURROGATES | ADDED: (ug/kg dry) | FOUND: (ug/kg dry) | % REC | QC LIMITS | Q |
|------------------------|-----------------------|-----------------------|-------|-----------|---|
| 2-Fluorophenol | 750.02 | 558 | 74.4 | 27 - 120 | |
| Phenol-d5 | 750.02 | 576 | 76.7 | 29 - 120 | |
| 2-Chlorophenol-d4 | 750.02 | 622 | 82.9 | 31 - 120 | |
| 1,2-Dichlorobenzene-d4 | 500.01 | 379 | 75.8 | 32 - 120 | |
| Nitrobenzene-d5 | 500.01 | 393 | 78.5 | 30 - 120 | |
| 2-Fluorobiphenyl | 500.01 | 424 | 84.7 | 35 - 120 | |



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

Laboratory: Analytical Resources, LLC

Client: Anchor OEA, LLC

Project: AOC5 MR Phase 1

Matrix: Sediment

Laboratory ID: 23A0180-01RE1 A

SDG: 23A0180

Sampled: 01/10/23 08:05

Prepared: 03/17/23 11:16

File ID: NT1003222329.D

% Solids: 51.36

Preparation: EPA 3546 (Microwave)

Analyzed: 03/23/23 10:49

Batch: BLC0442

Sequence: SLC0397

Initial/Final: 19.47 g Wet / 1 mL

Instrument: NT10

Column: ZB-5MSi

Calibration: GC00046

Cleanups: GPC

| SURROGATES | ADDED: (ug/kg dry) | FOUND: (ug/kg dry) | % REC | QC LIMITS | Q |
|----------------------|-----------------------|-----------------------|-------|-----------|---|
| 2,4,6-Tribromophenol | 750.02 | 866 | 116 | 24 - 134 | |
| p-Terphenyl-d14 | 500.01 | 407 | 81.4 | 37 - 120 | |

Data File: \\target\share\chem3\nt10.1\20230322.16\NT1003222329.D

Date: 23-MAR-2023 10:49

Client ID:

Sample Info: 23A0180-01RE1

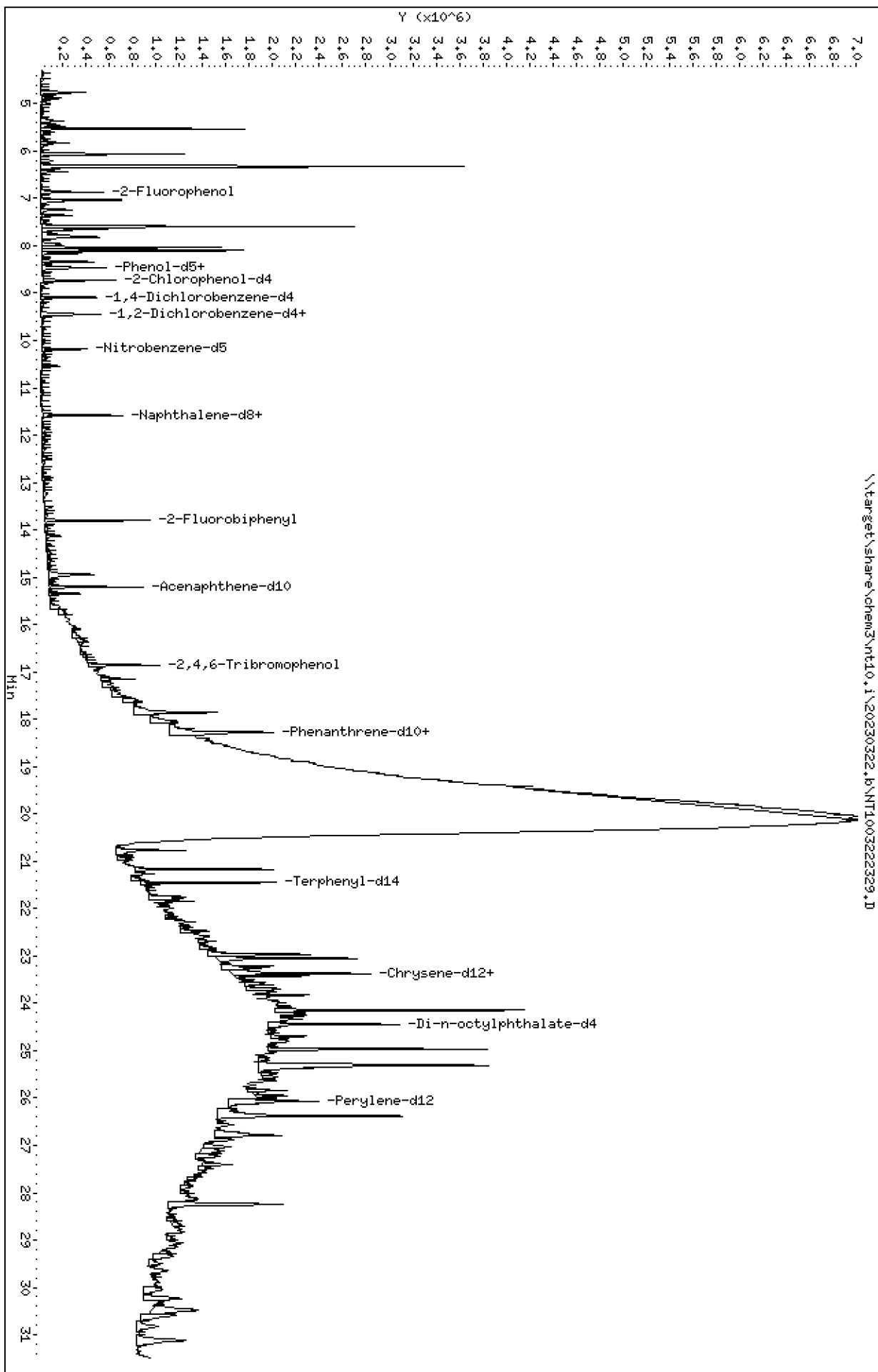
Column phase: ZB-5msi

Instrument: nt10.1

Operator: VTS

Column diameter: 0.25

Page 1



Date : 23-MAR-2023 10:49

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-01RE1

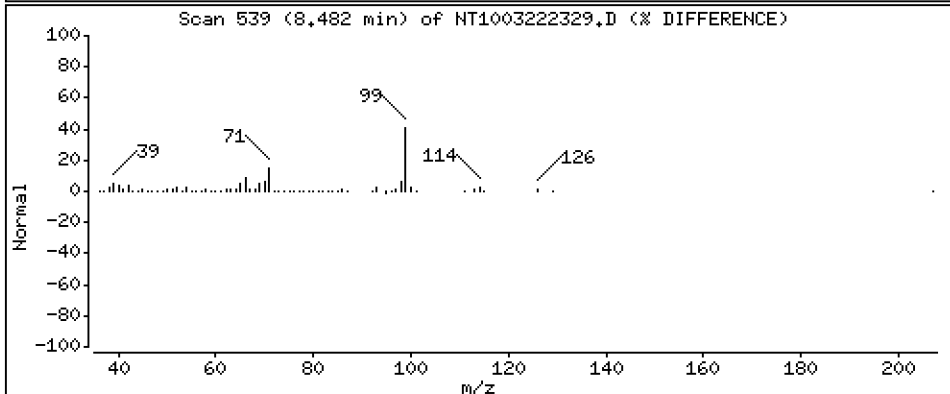
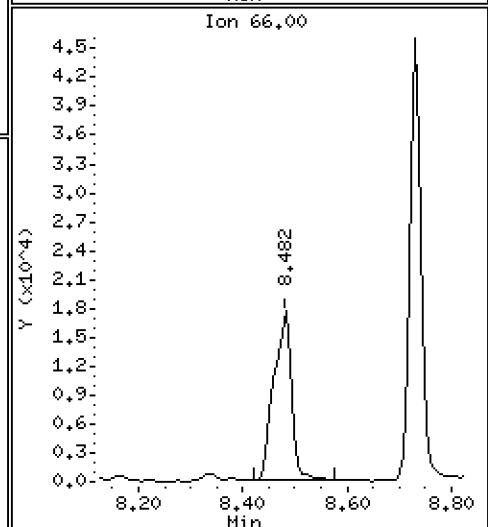
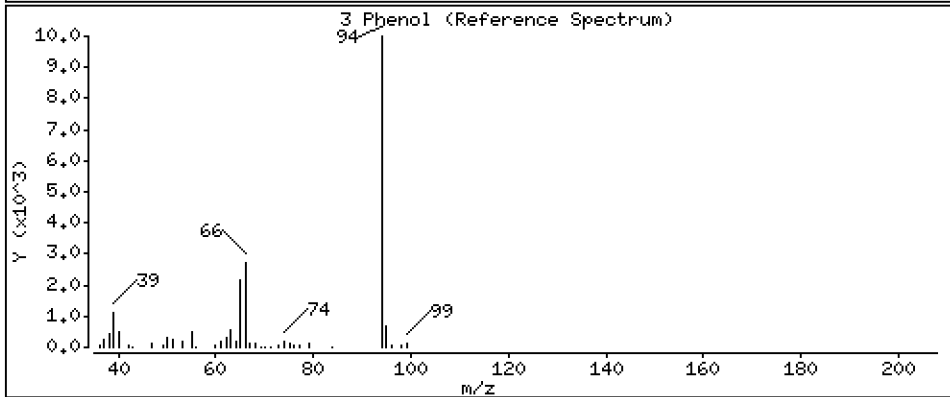
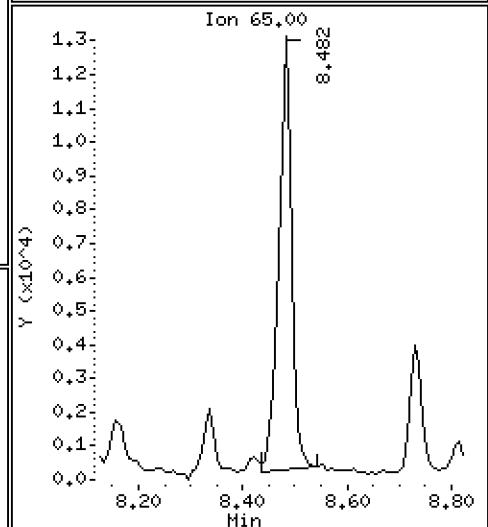
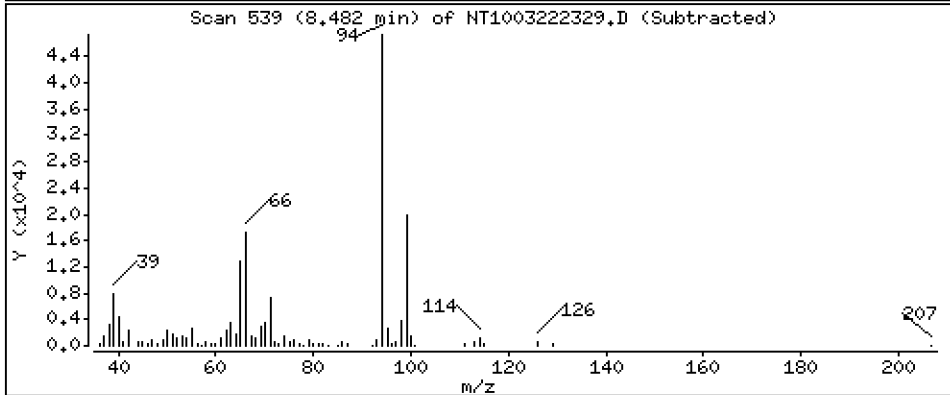
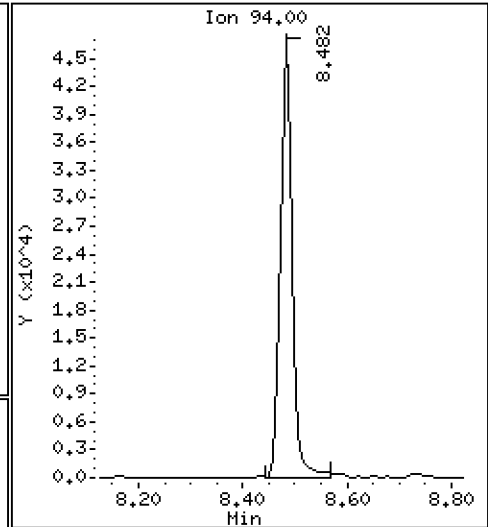
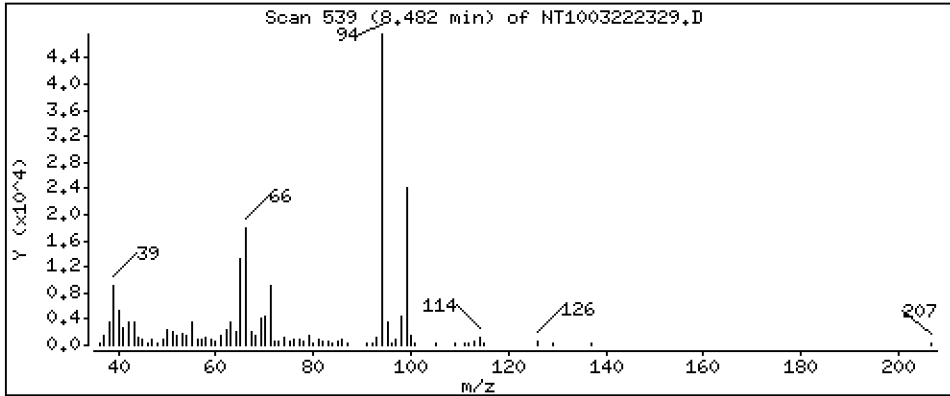
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 1,204 ug/mL



Date : 23-MAR-2023 10:49

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-01RE1

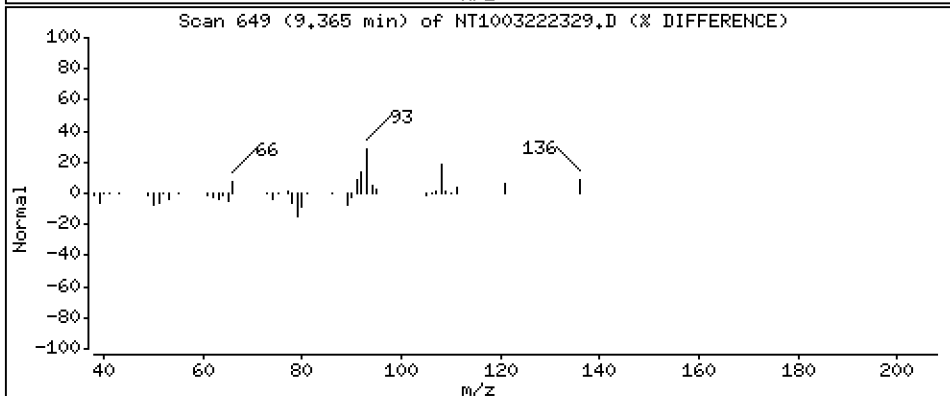
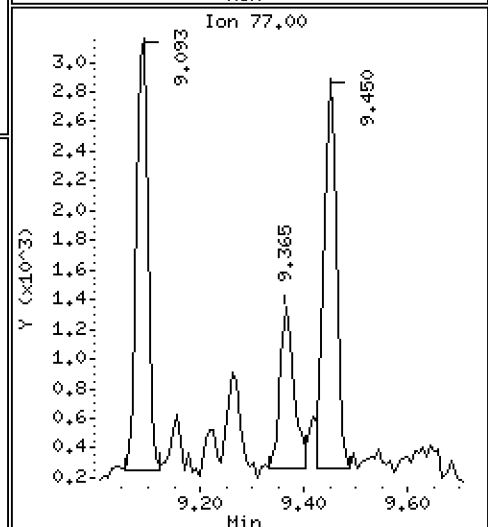
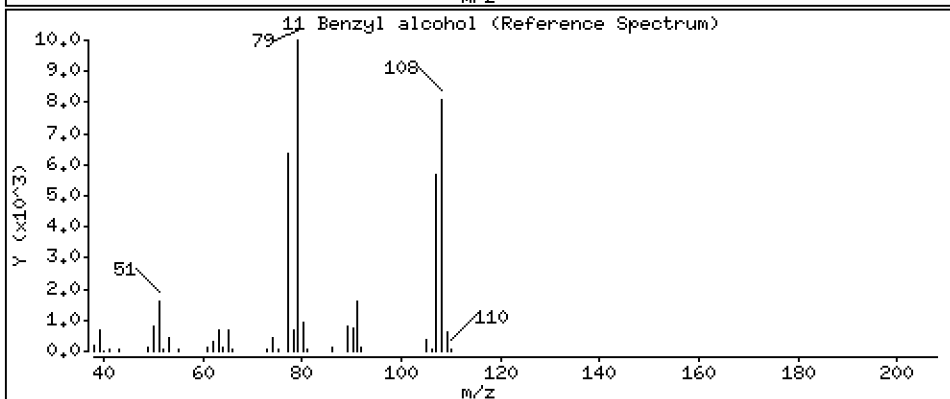
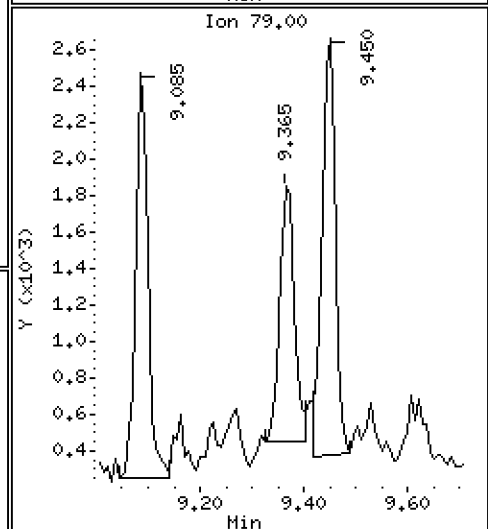
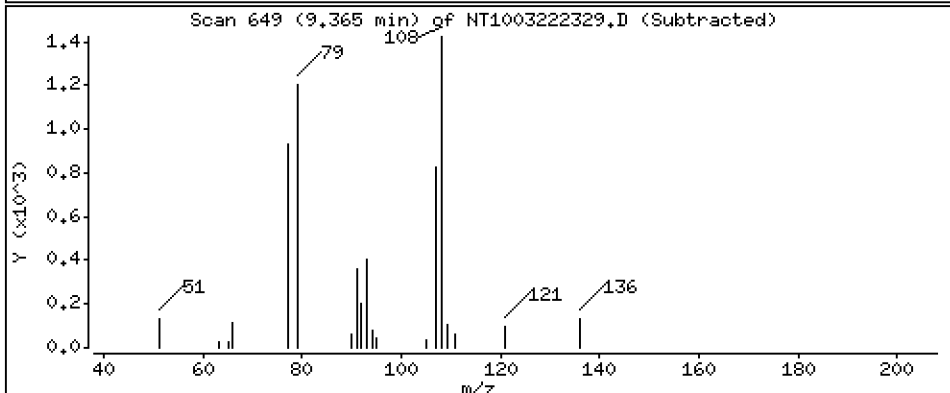
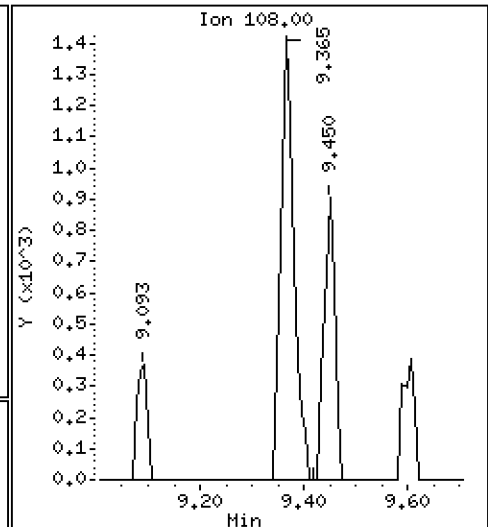
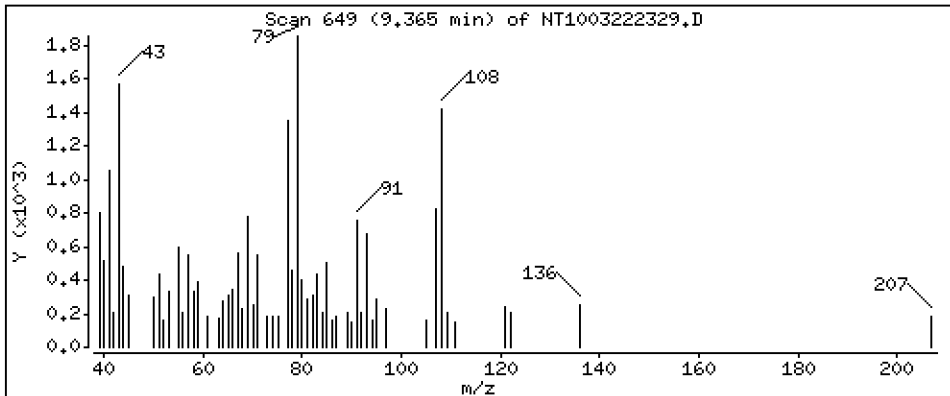
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

11 Benzyl alcohol

Concentration: 0,08528 ug/mL



Date : 23-MAR-2023 10:49

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-01RE1

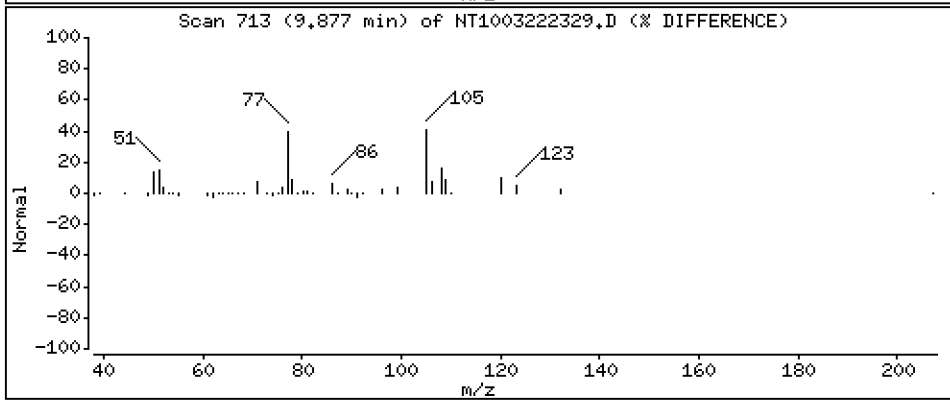
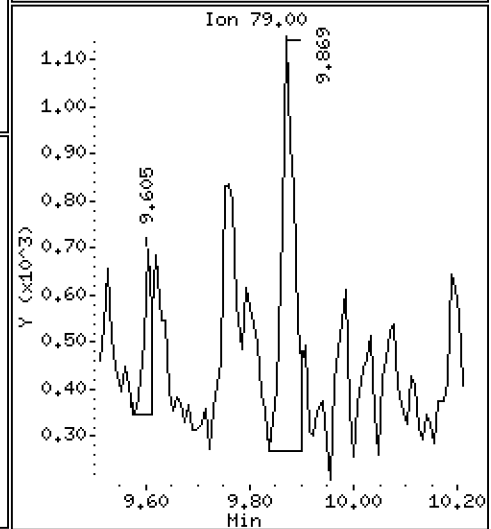
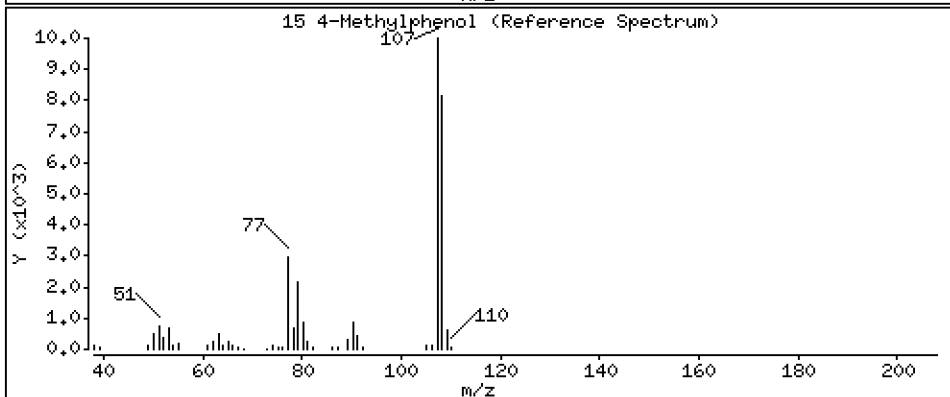
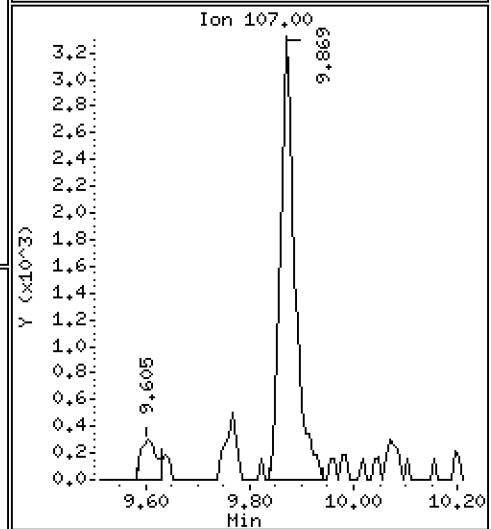
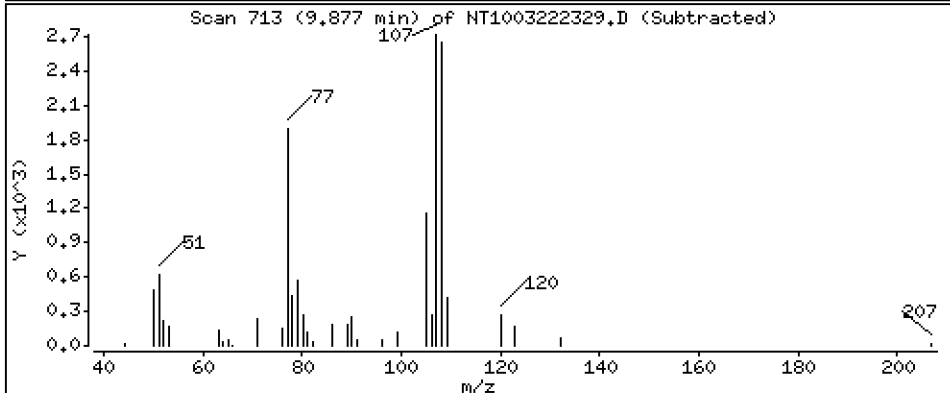
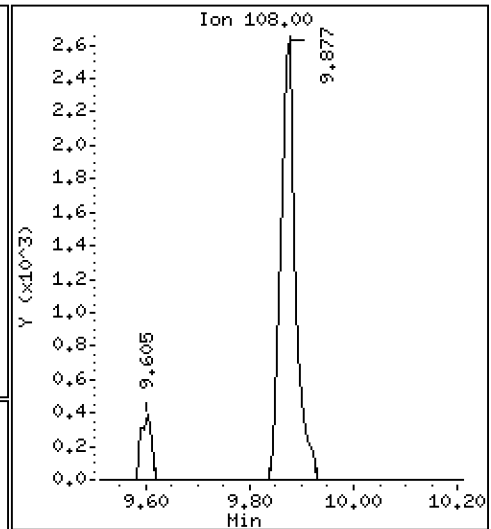
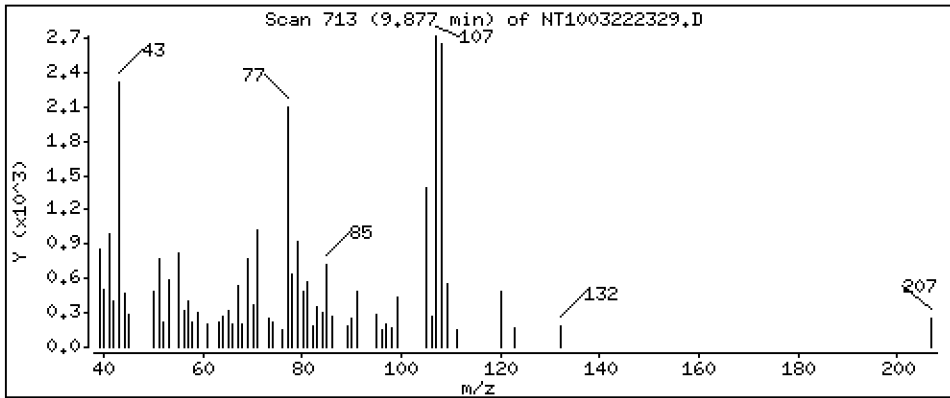
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 0.1127 ug/mL



Date : 23-MAR-2023 10:49

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-01RE1

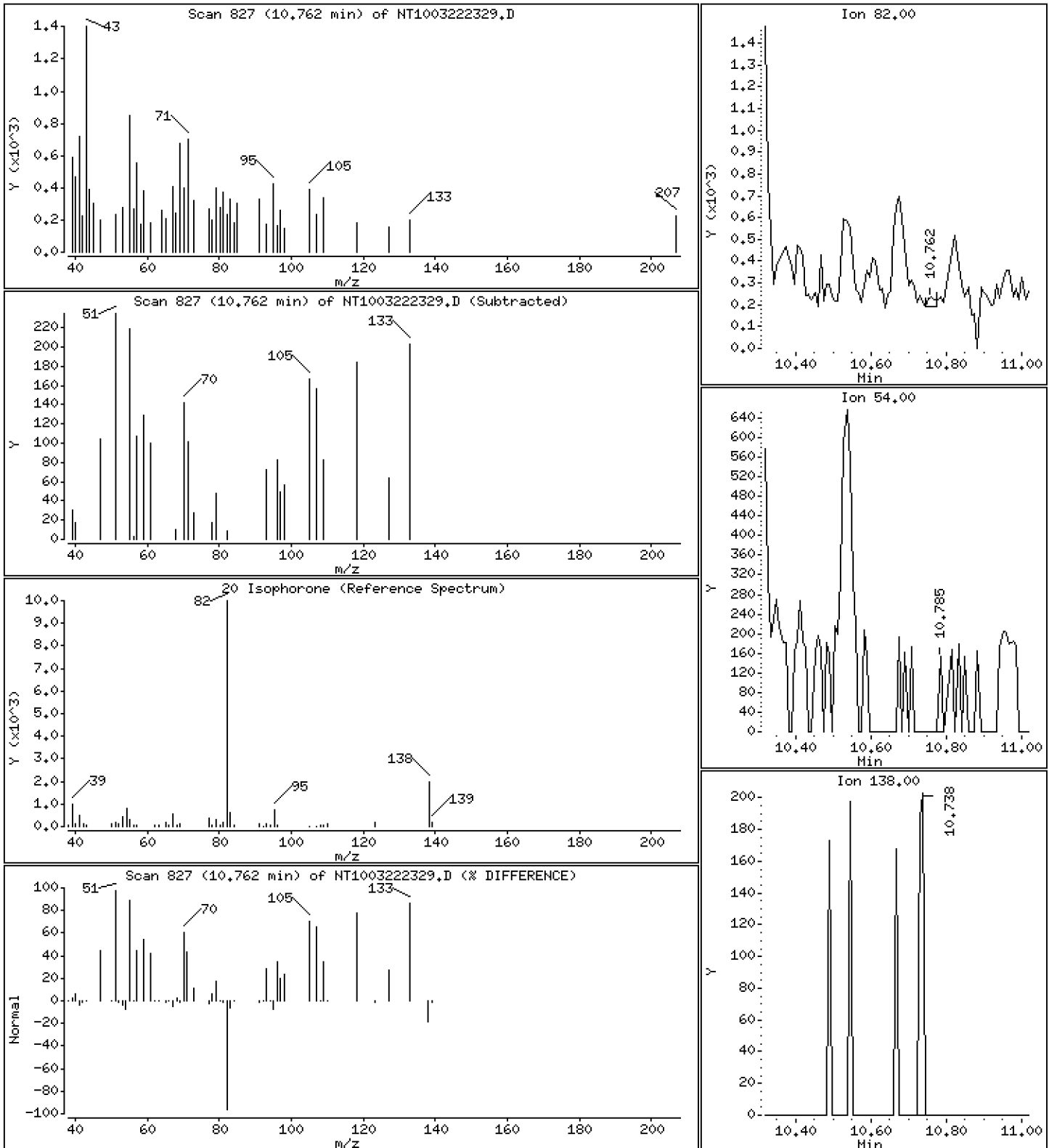
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

20 Isophorone

Concentration: 0.001023 ug/mL



Date : 23-MAR-2023 10:49

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-01RE1

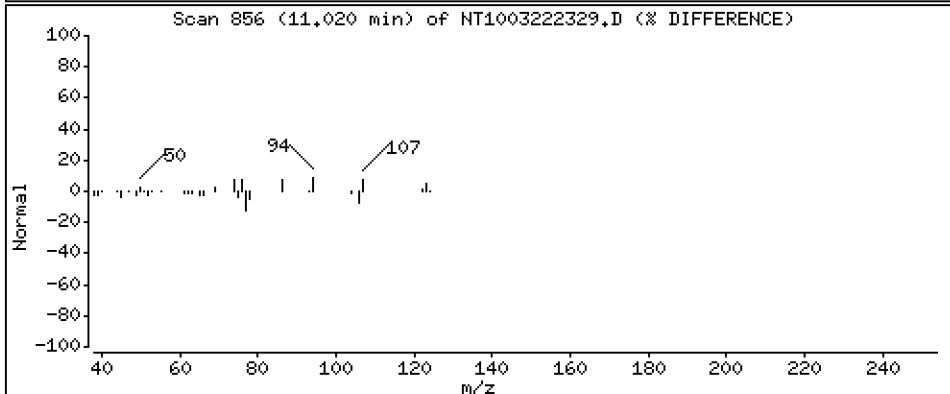
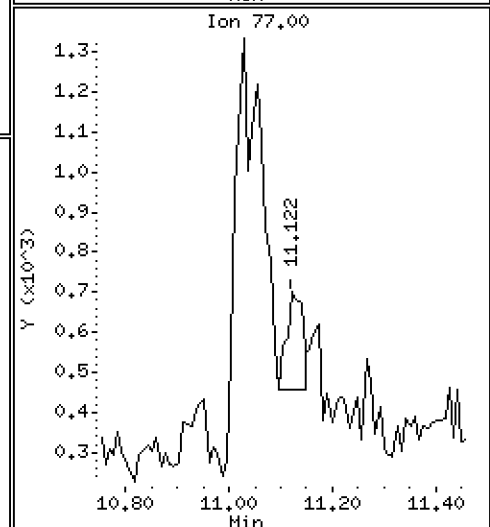
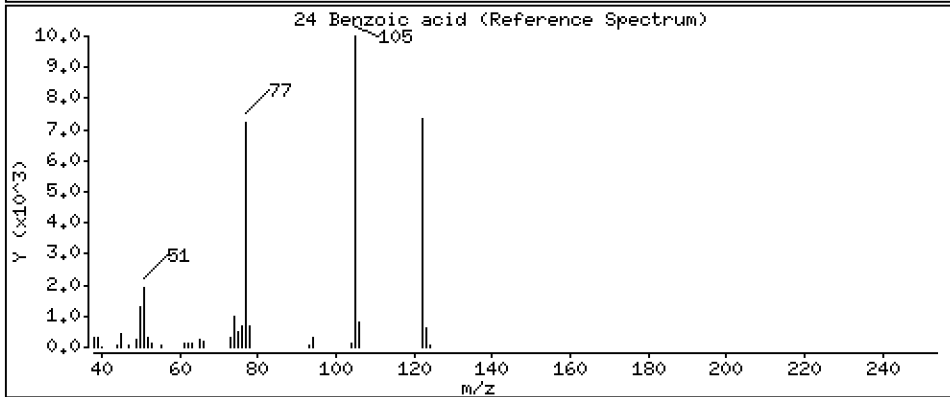
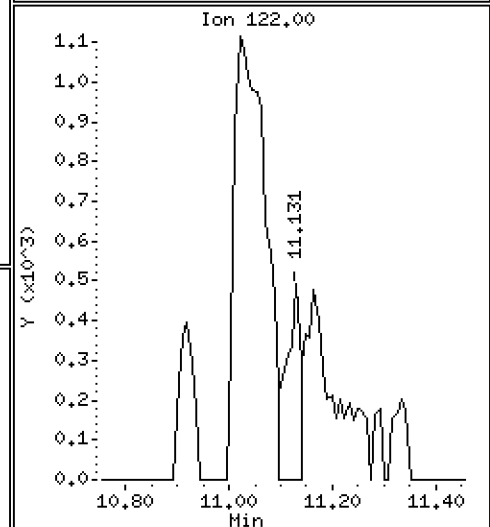
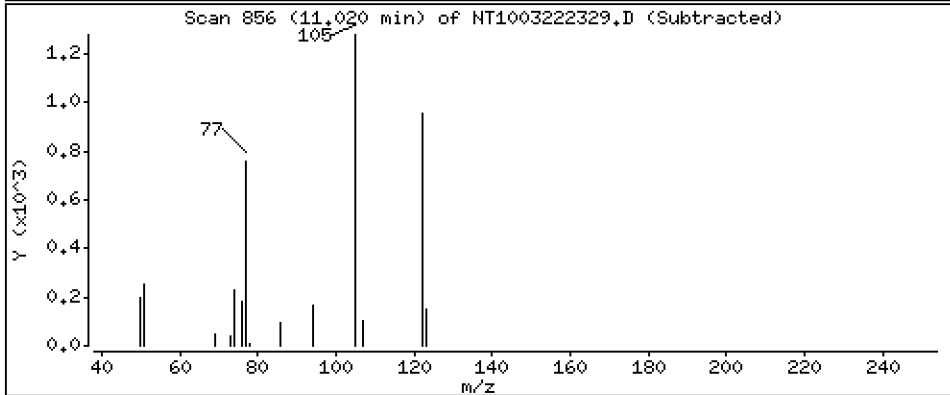
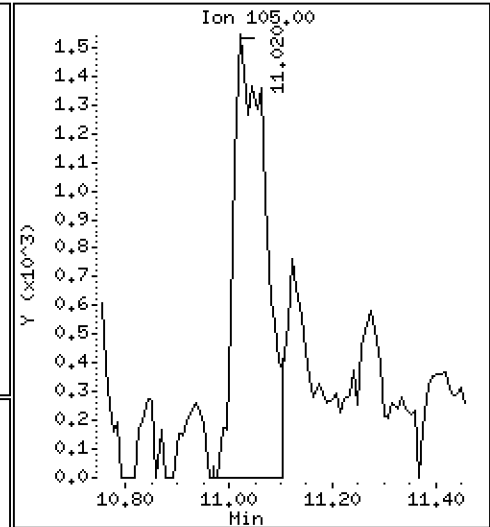
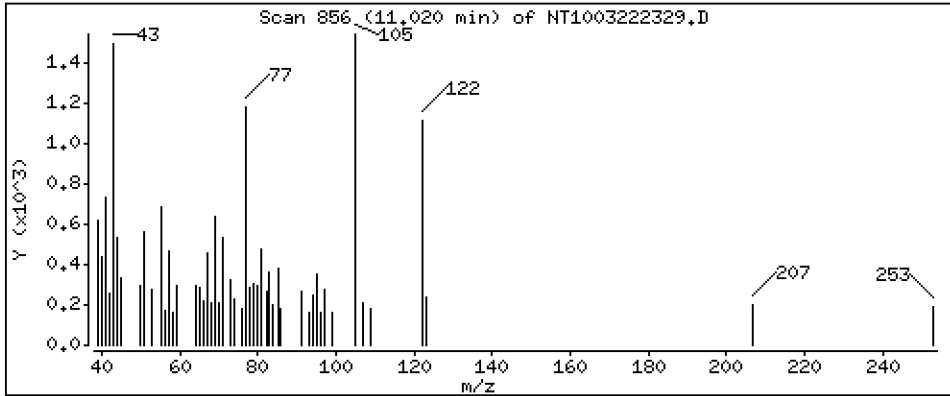
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

24 Benzoic acid

Concentration: 0,2488 ug/mL



Date : 23-MAR-2023 10:49

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-01RE1

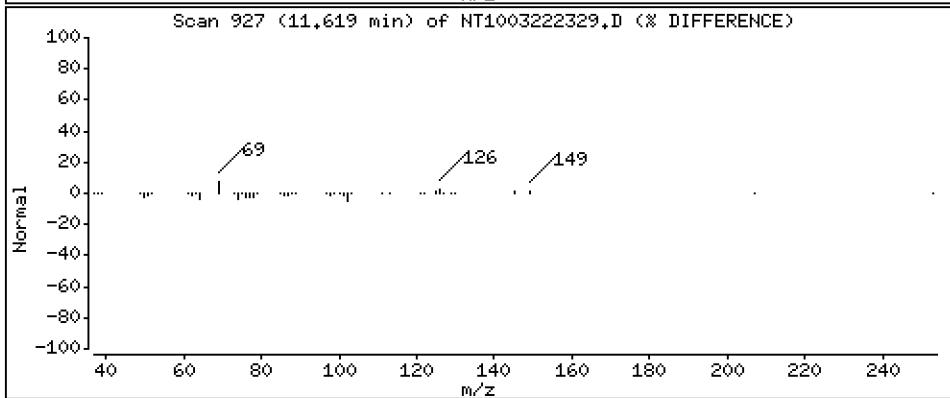
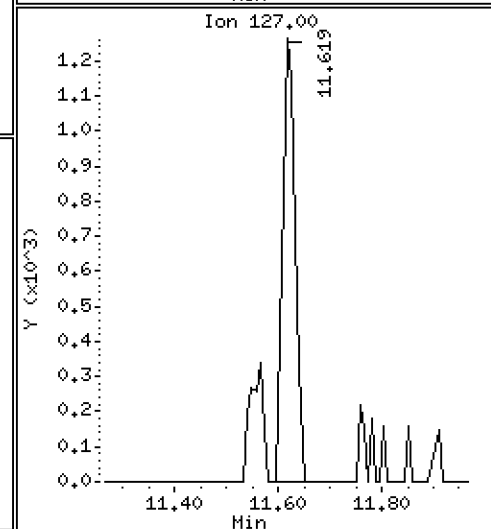
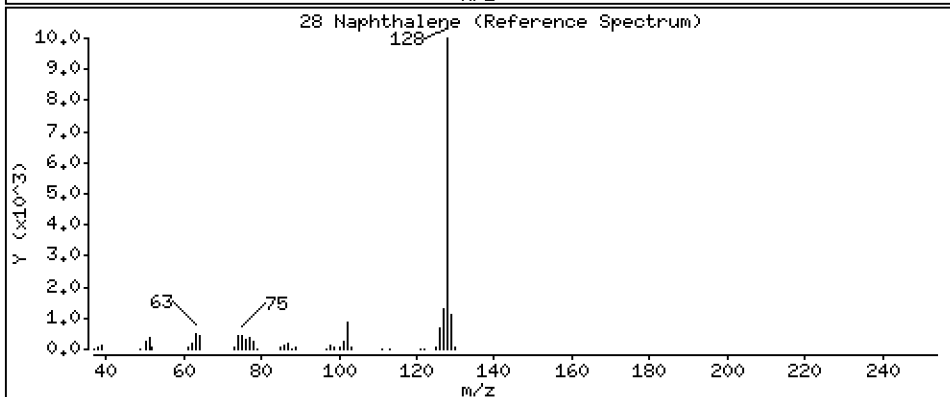
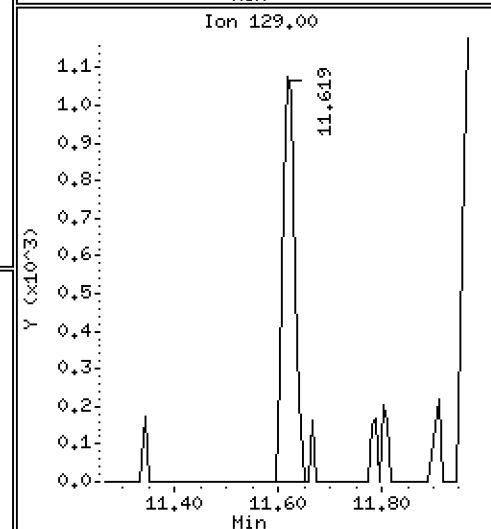
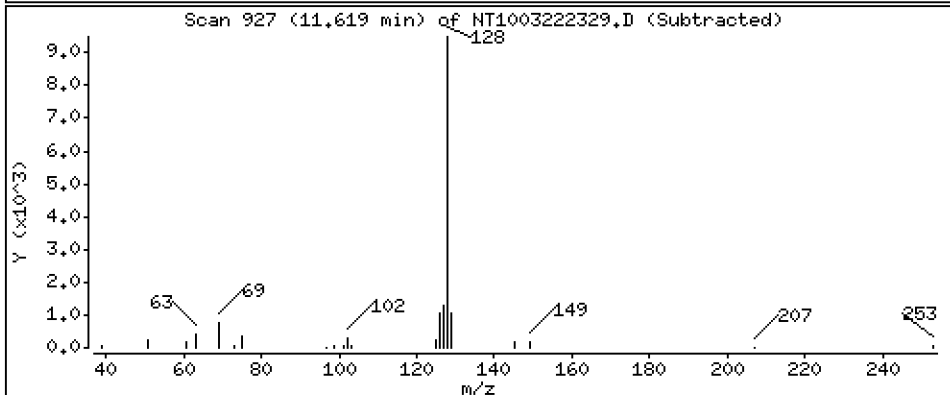
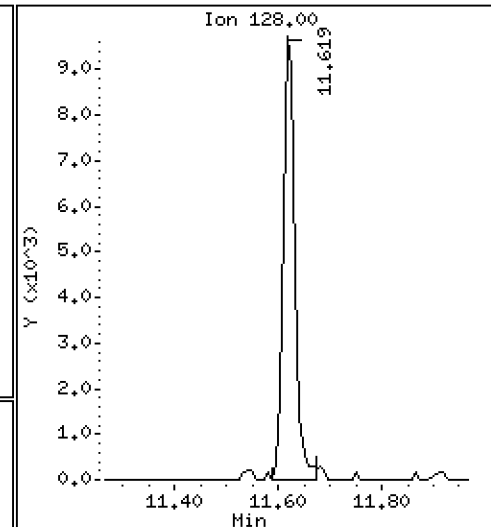
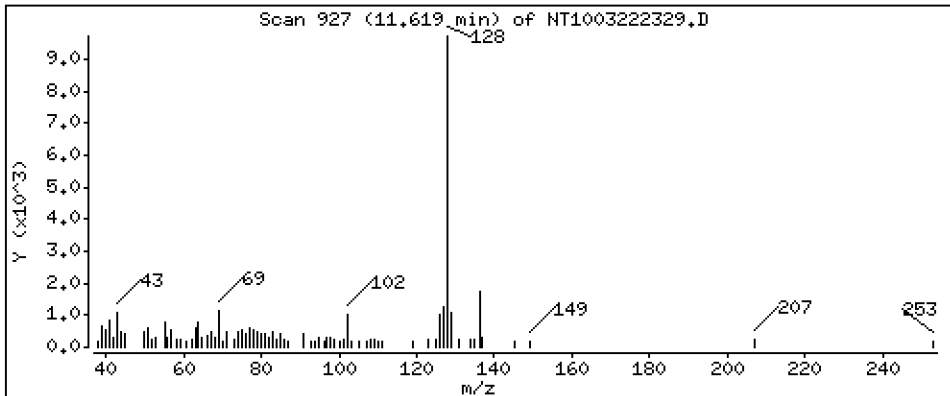
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 0,1117 ug/mL



Date : 23-MAR-2023 10:49

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-01RE1

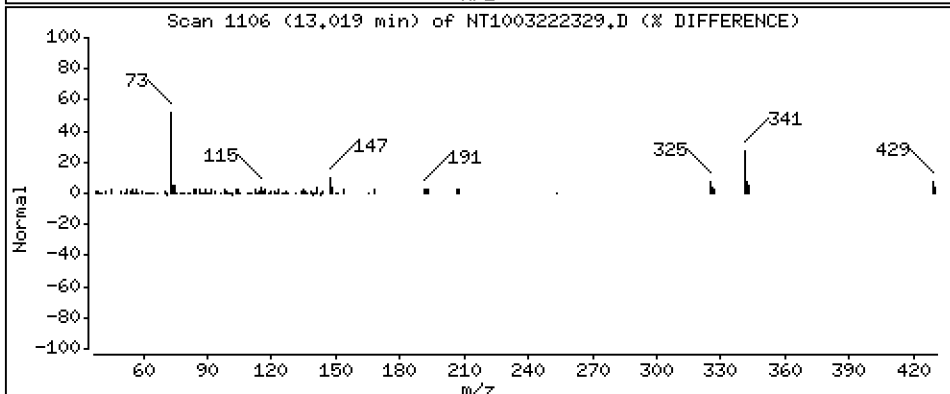
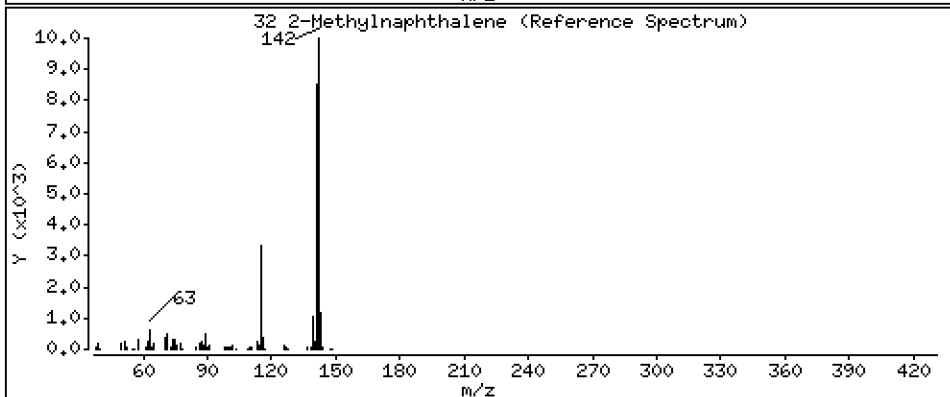
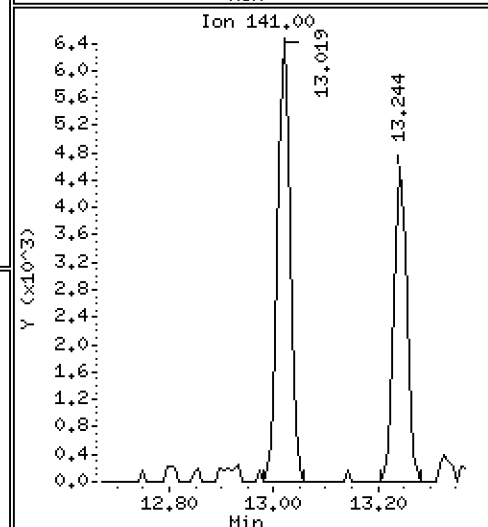
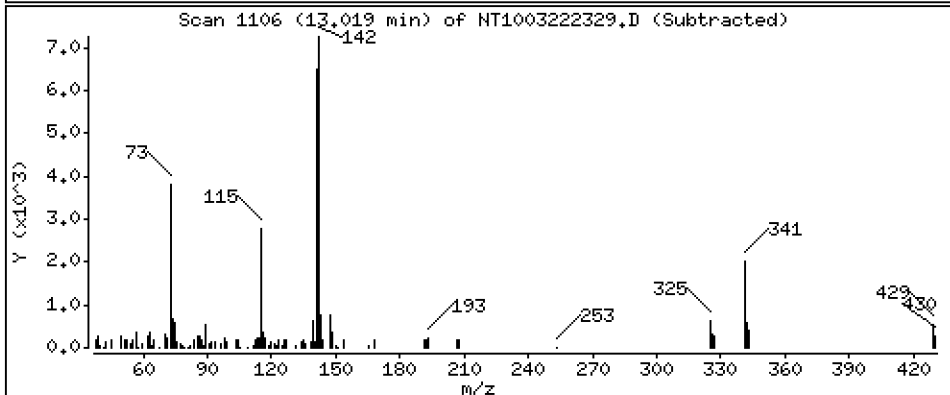
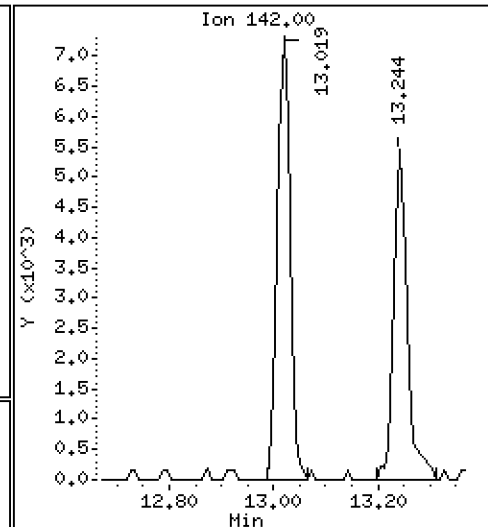
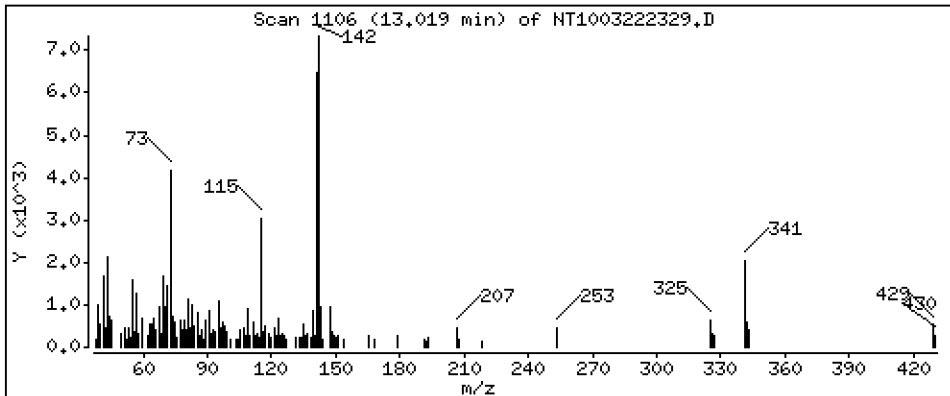
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 0,1168 ug/mL



Date : 23-MAR-2023 10:49

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-01RE1

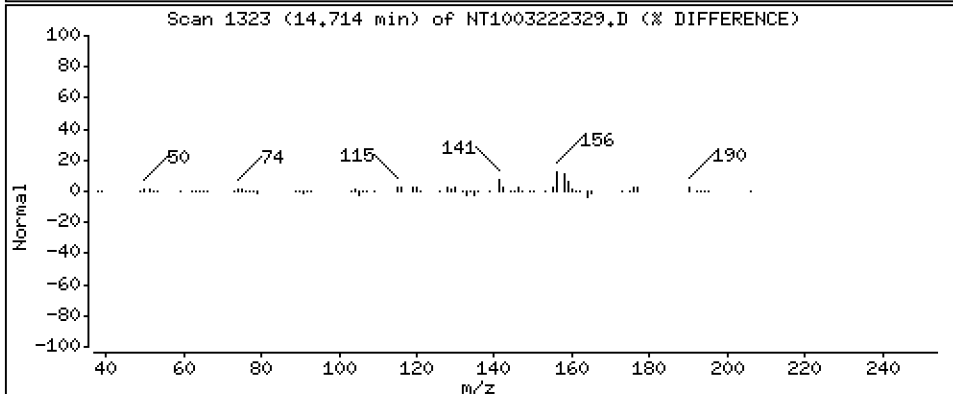
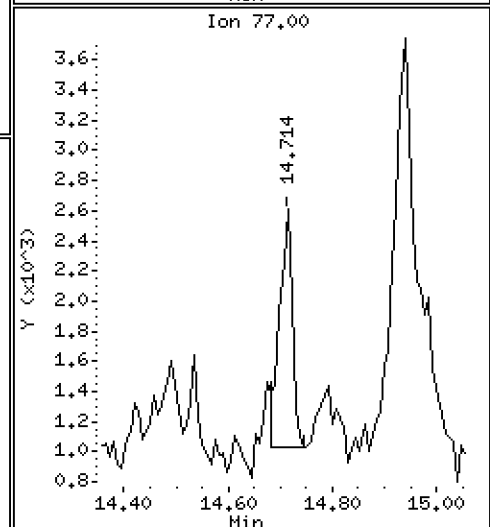
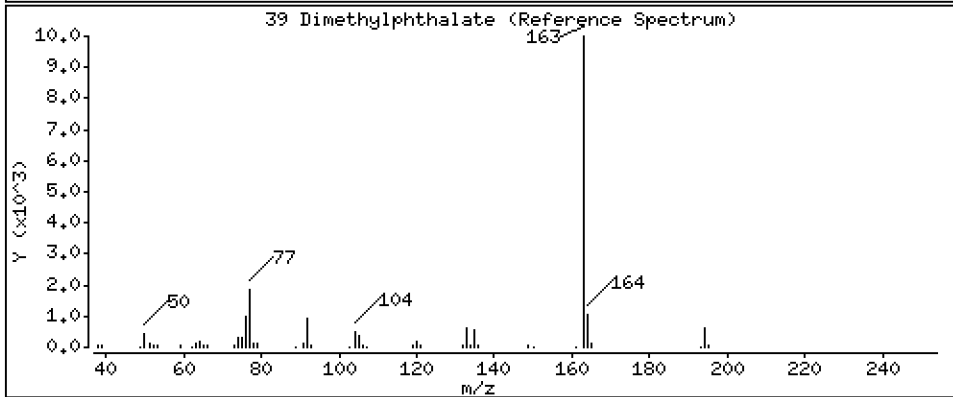
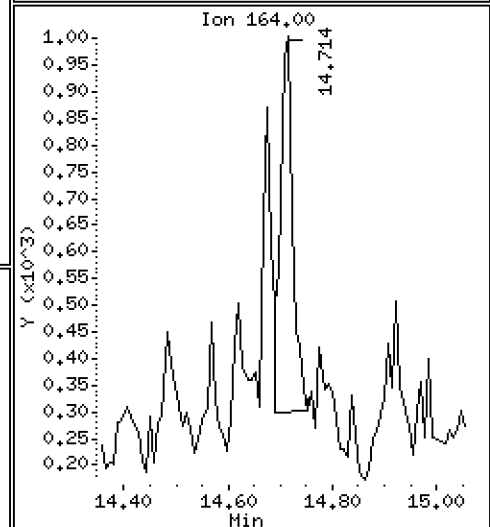
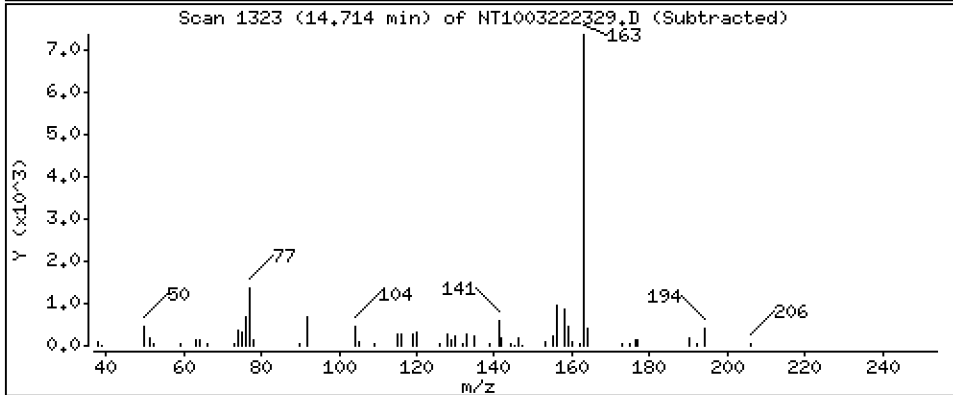
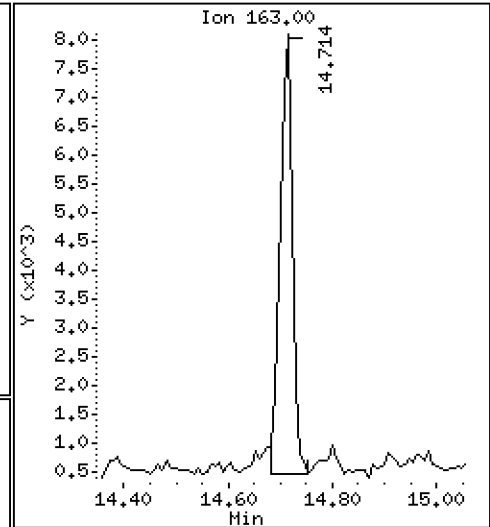
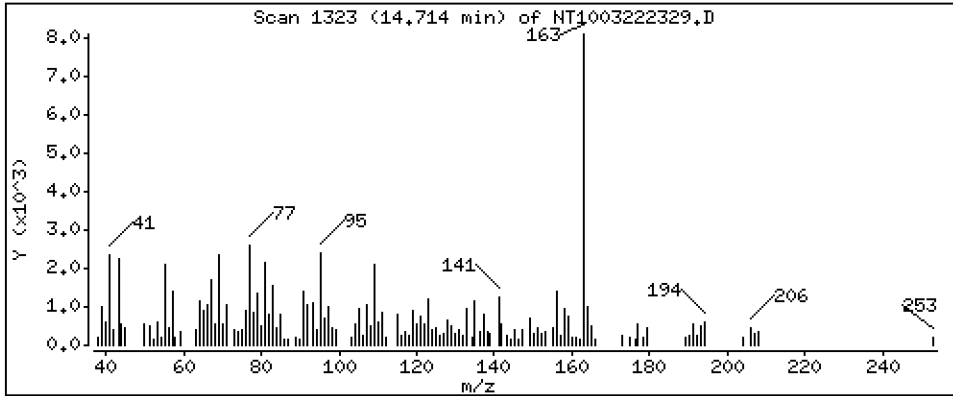
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 0,1258 ug/mL



Date : 23-MAR-2023 10:49

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-01RE1

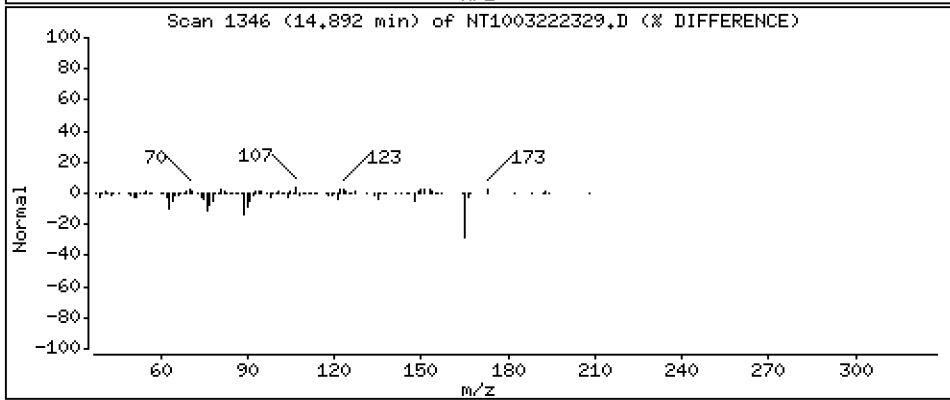
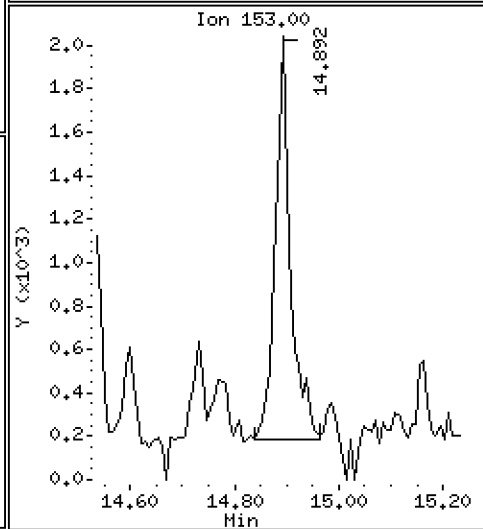
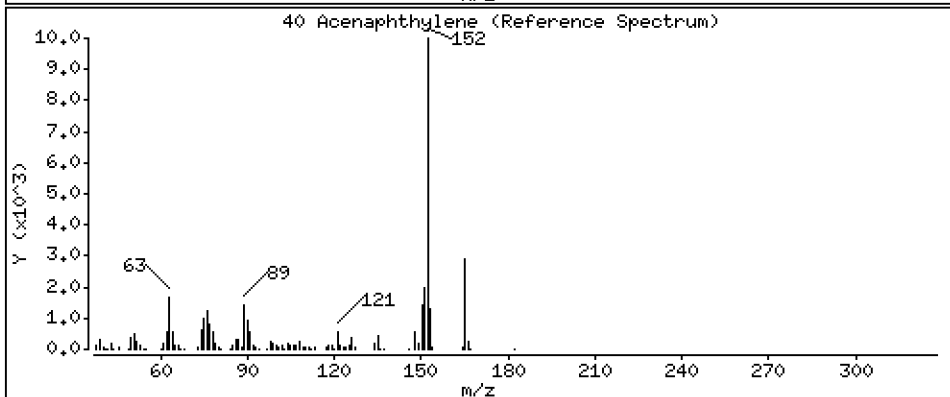
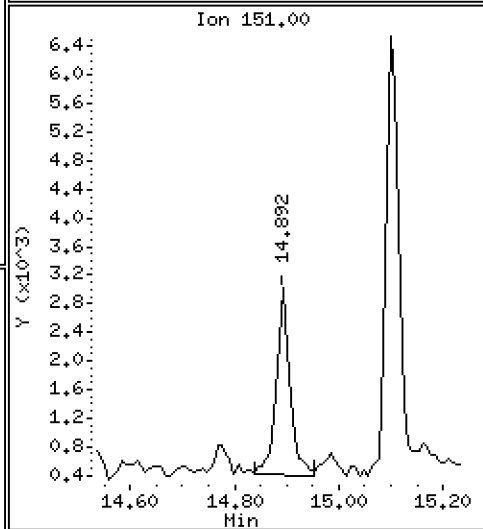
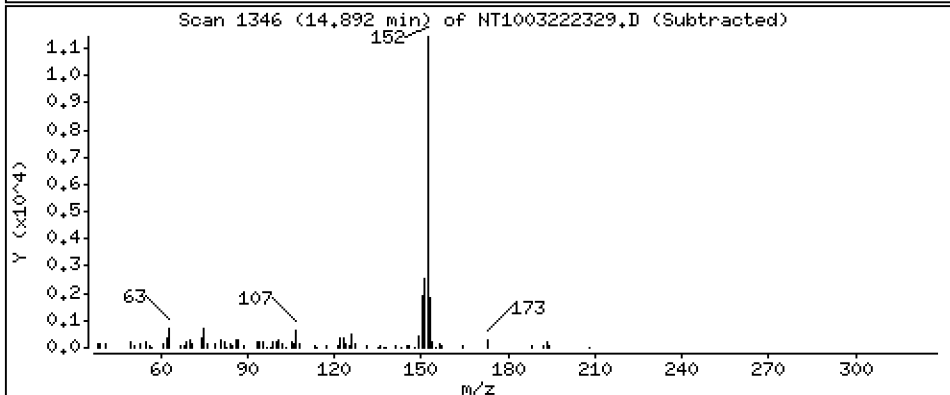
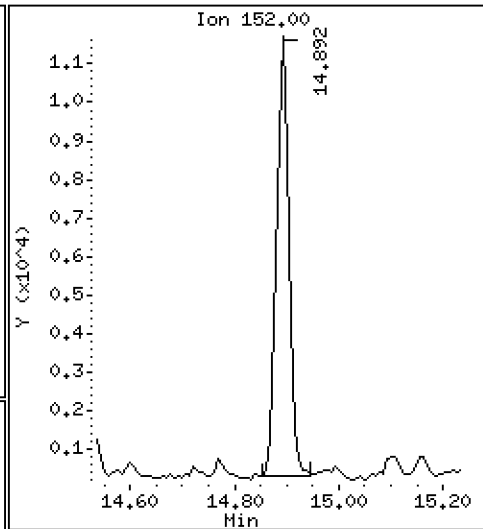
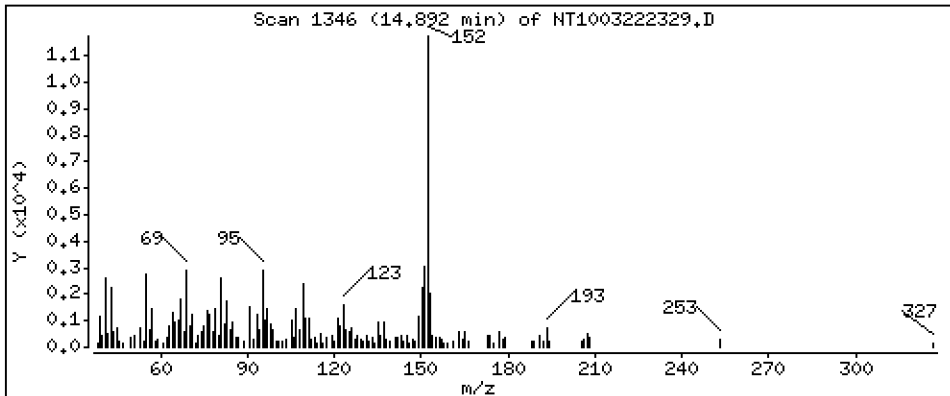
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 0,1250 ug/mL



Date : 23-MAR-2023 10:49

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-01RE1

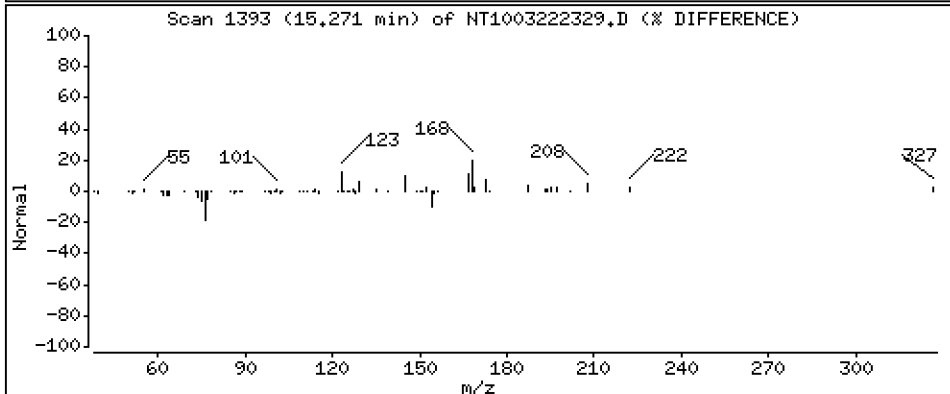
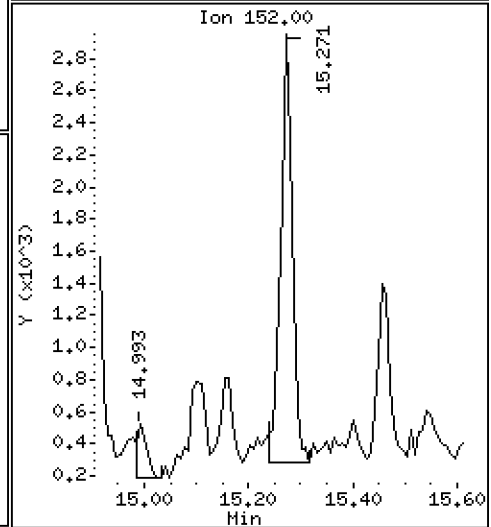
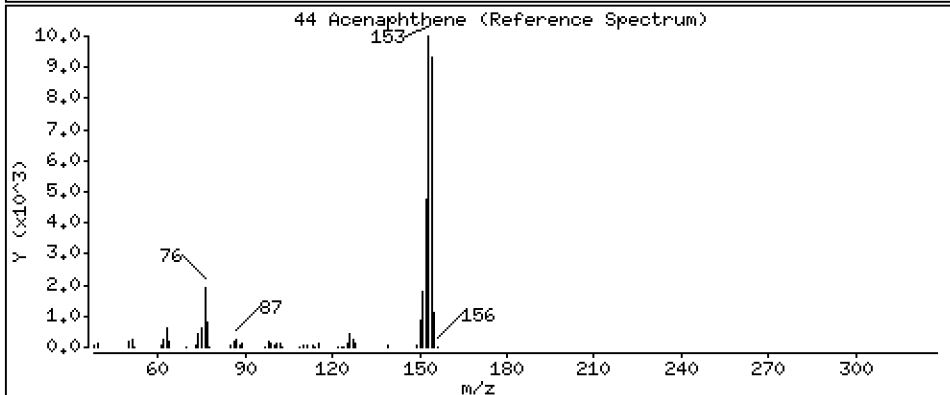
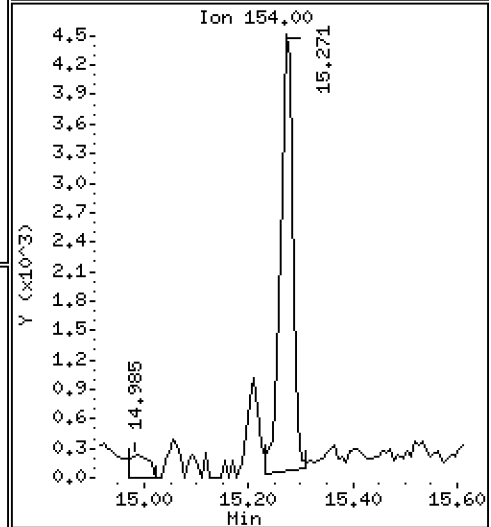
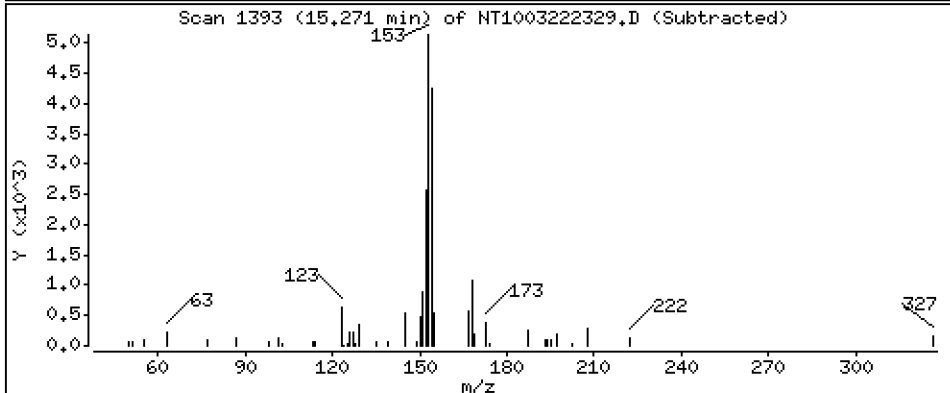
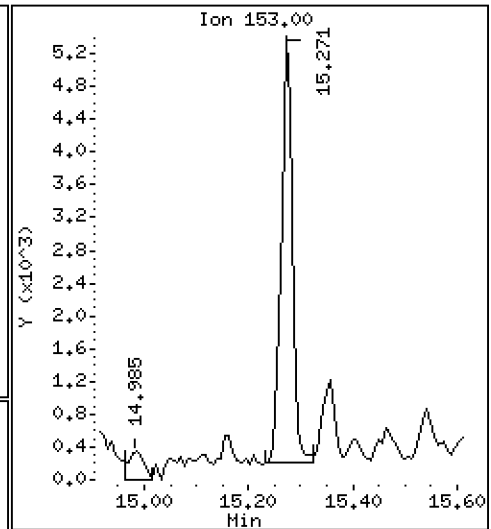
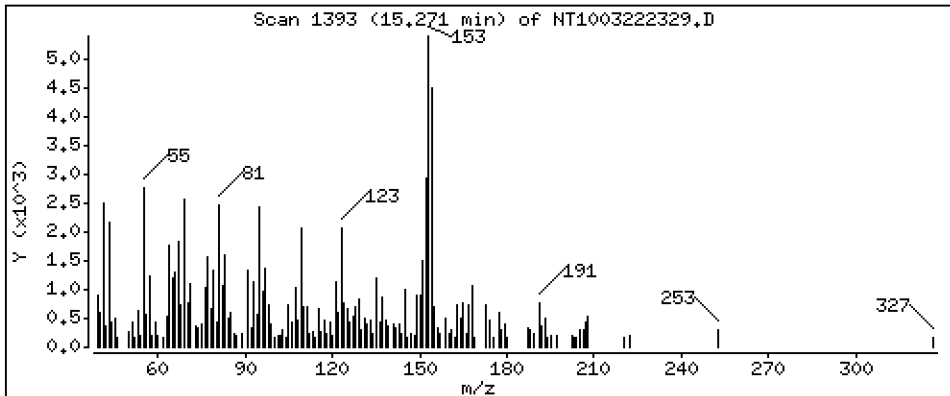
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 0,08347 ug/mL



Date : 23-MAR-2023 10:49

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-01RE1

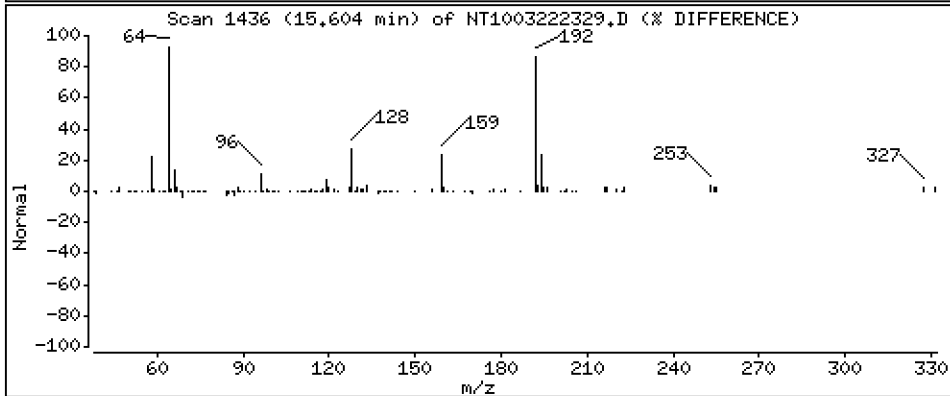
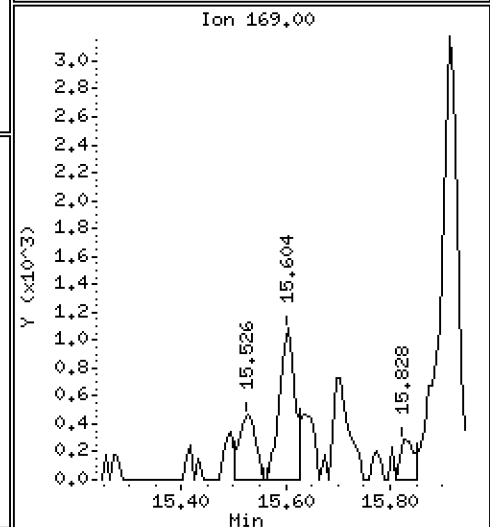
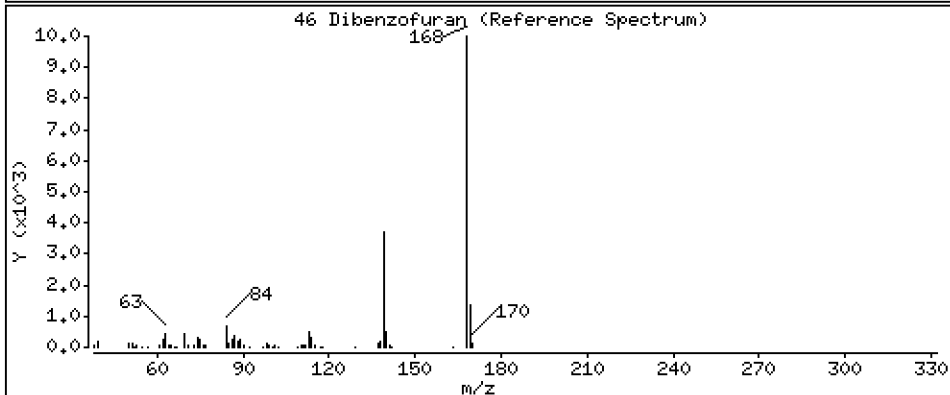
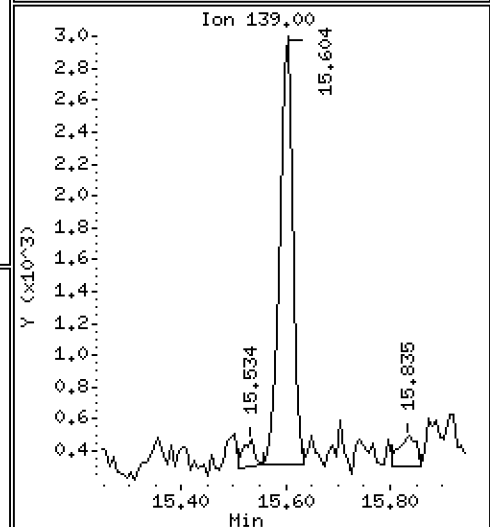
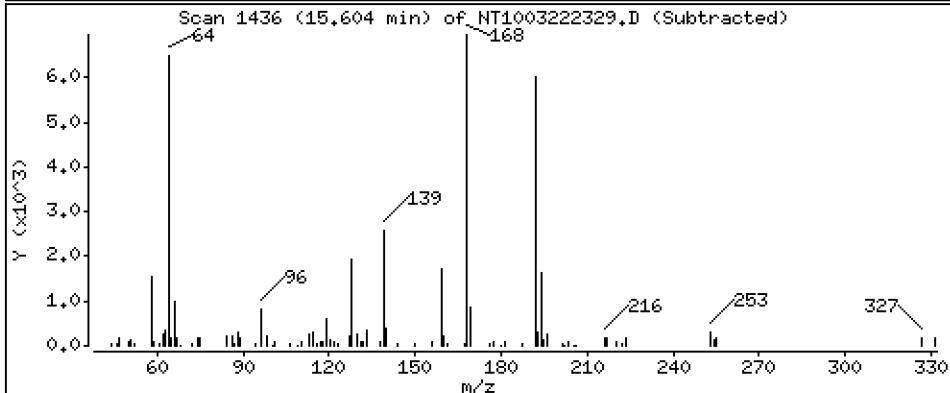
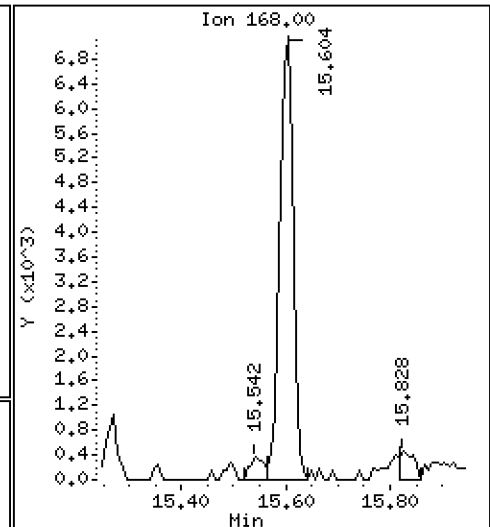
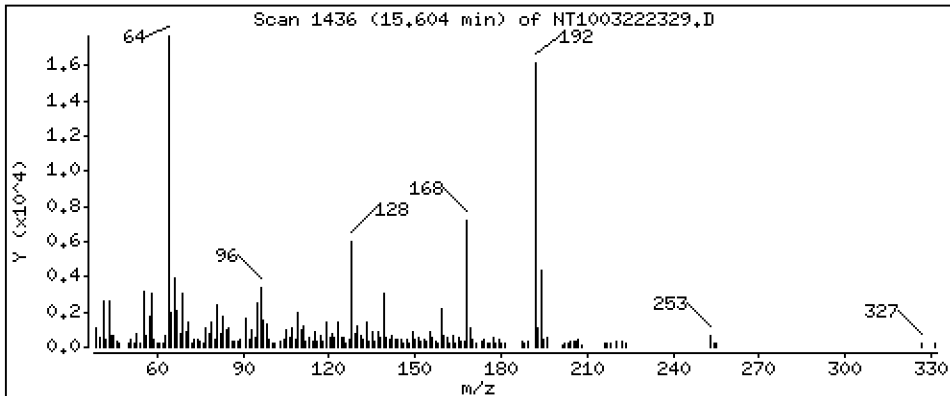
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 0,09282 ug/mL



Date : 23-MAR-2023 10:49

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-01RE1

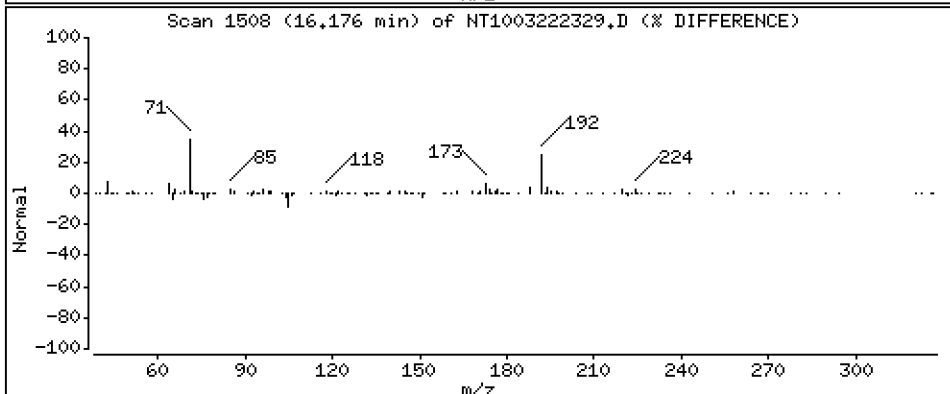
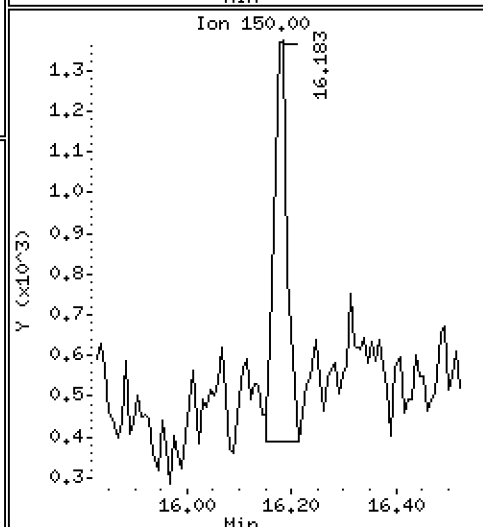
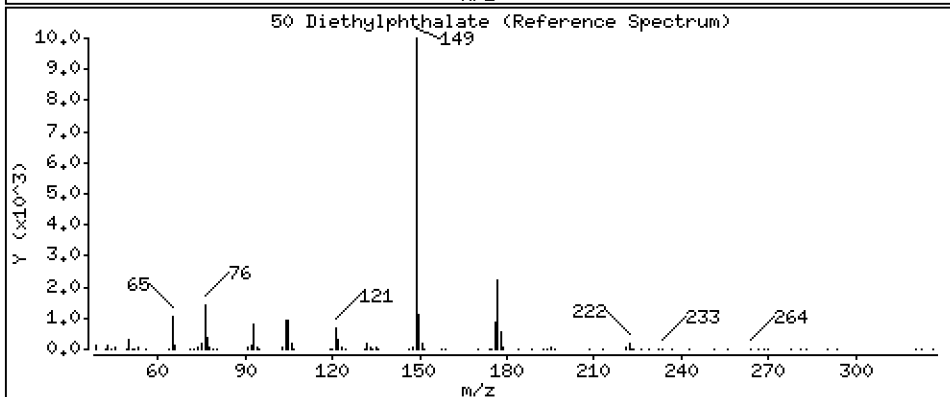
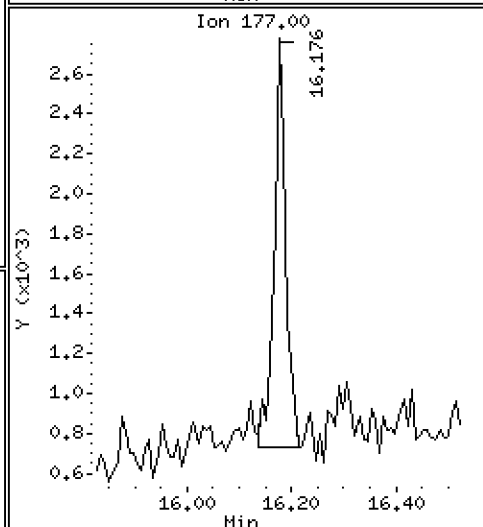
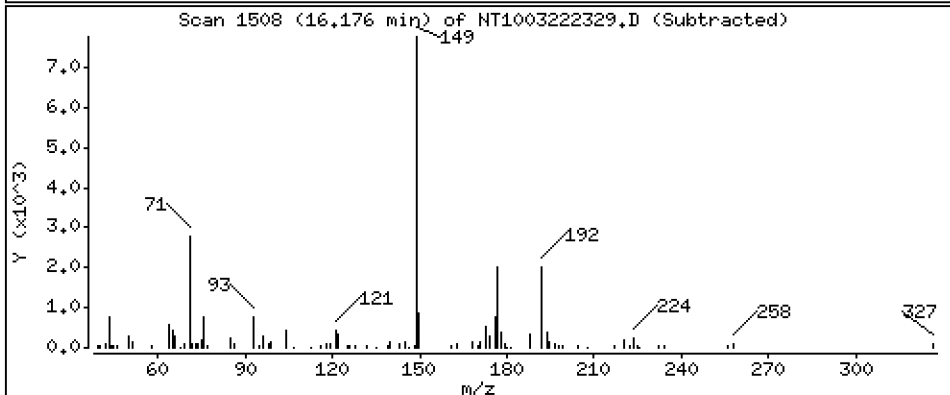
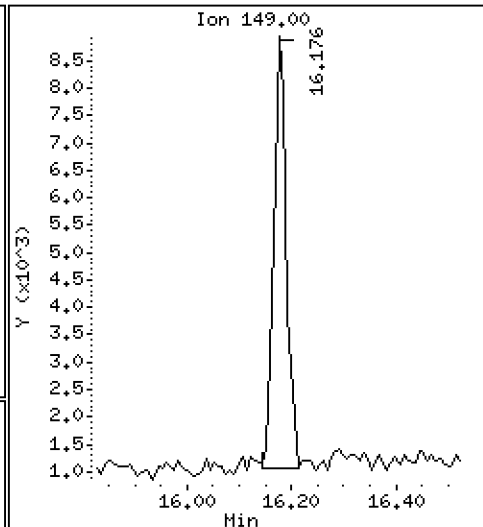
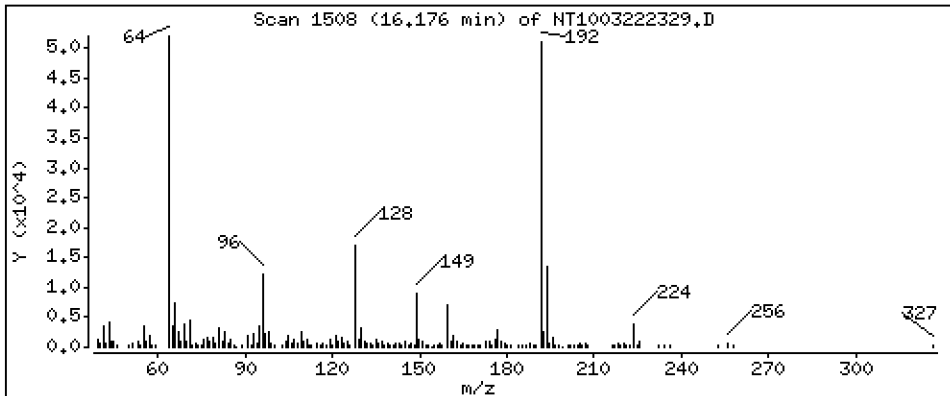
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 0,1585 ug/mL



Date : 23-MAR-2023 10:49

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-01RE1

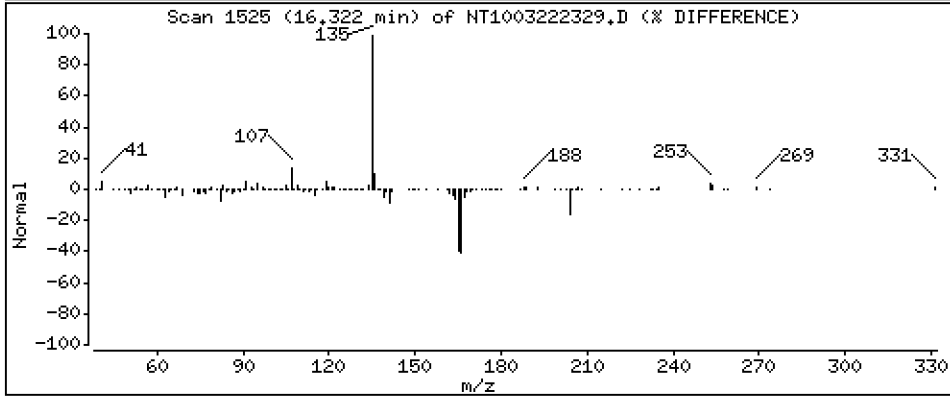
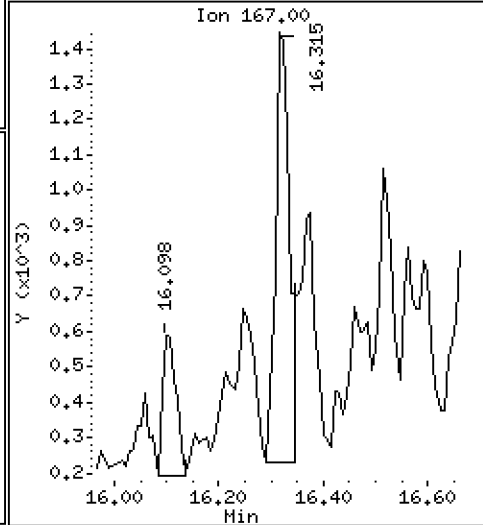
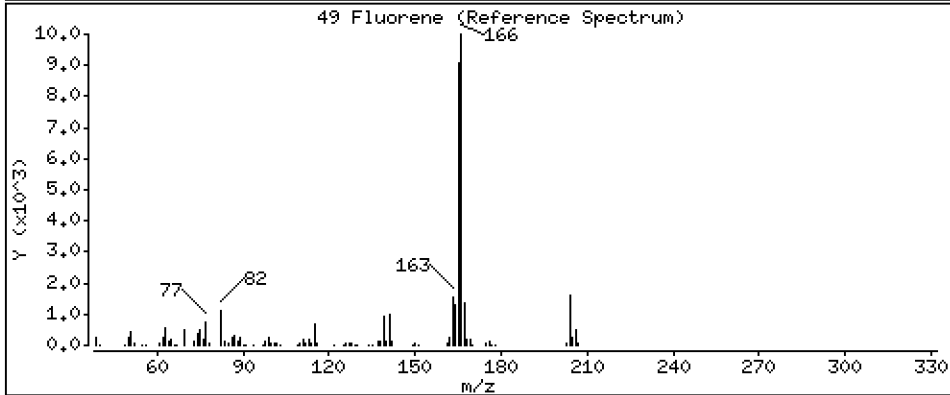
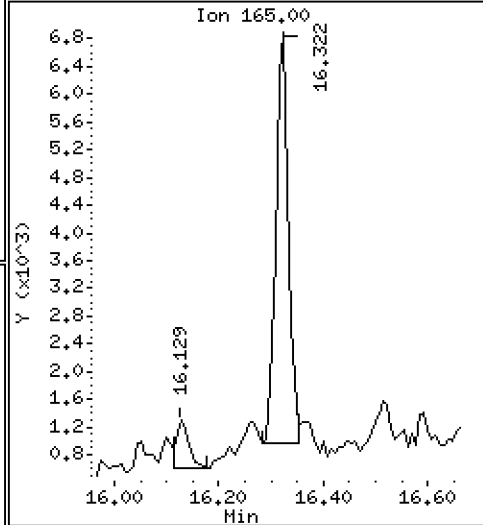
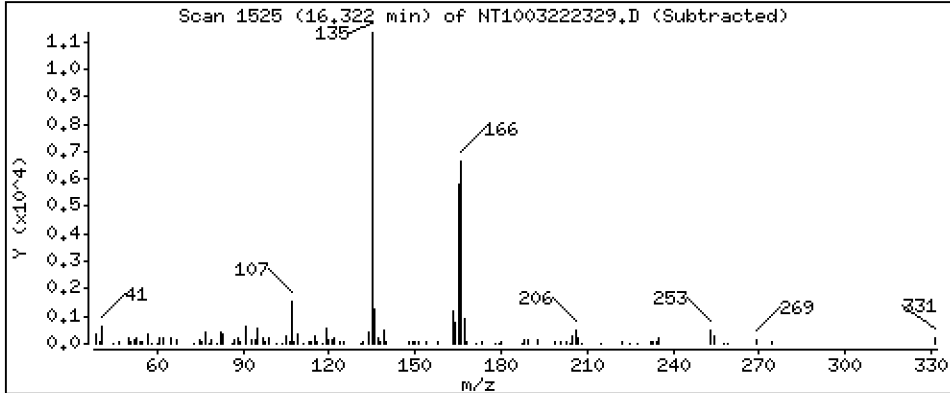
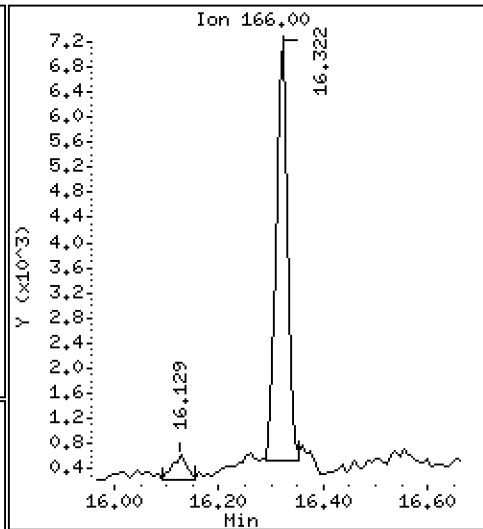
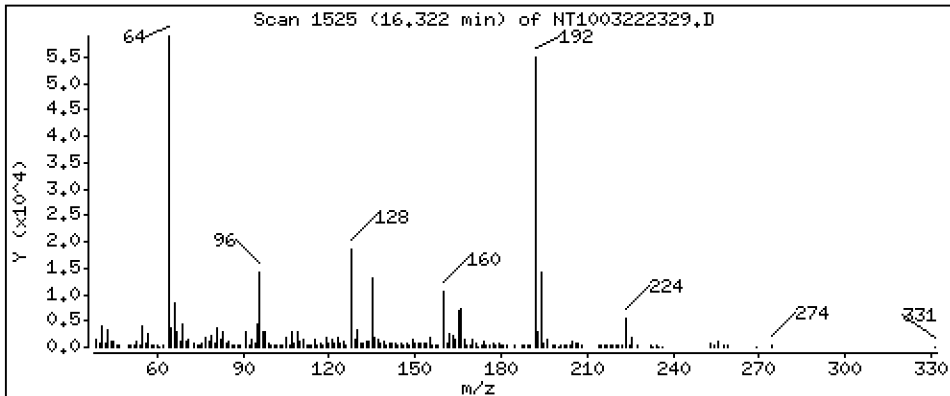
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

49 Fluorene

Concentration: 0.09641 ug/mL



Date : 23-MAR-2023 10:49

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-01RE1

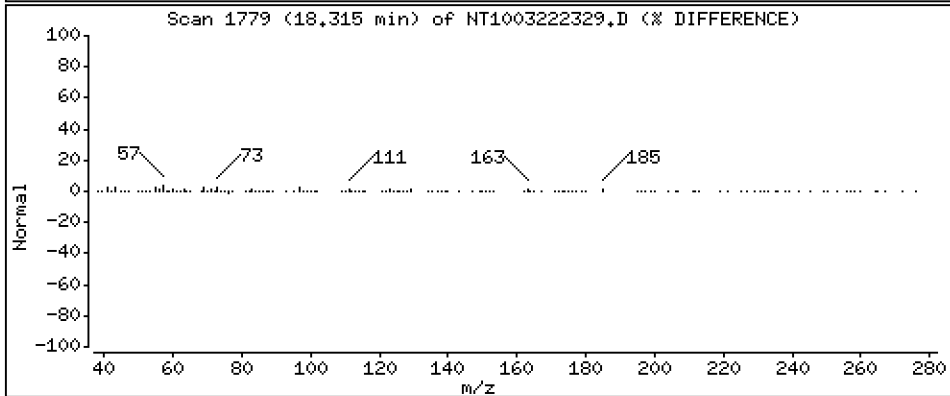
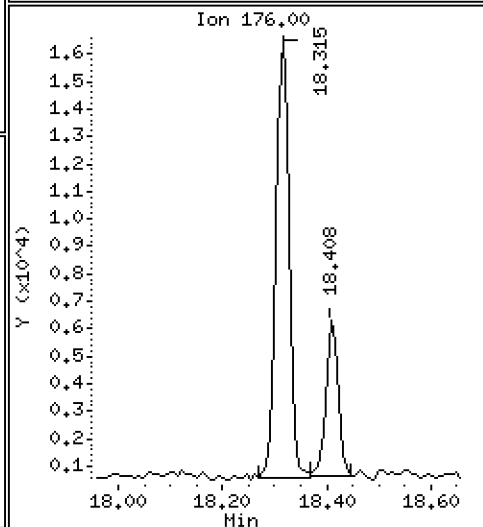
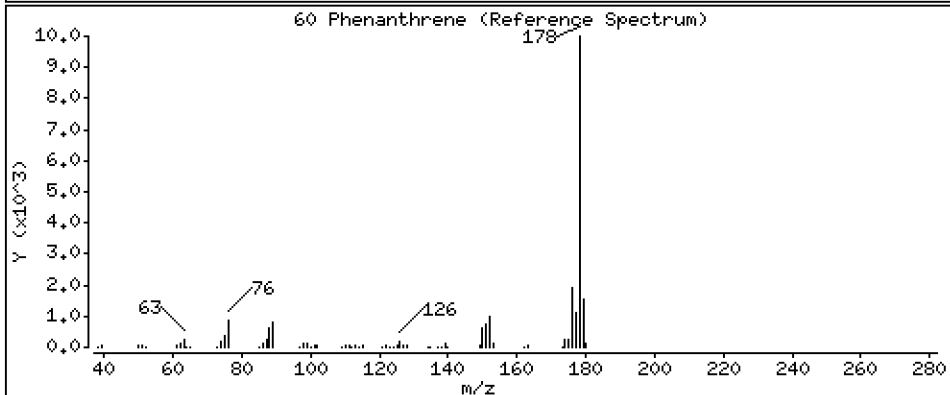
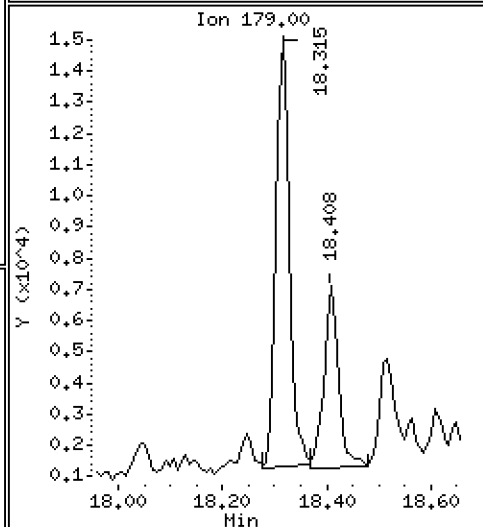
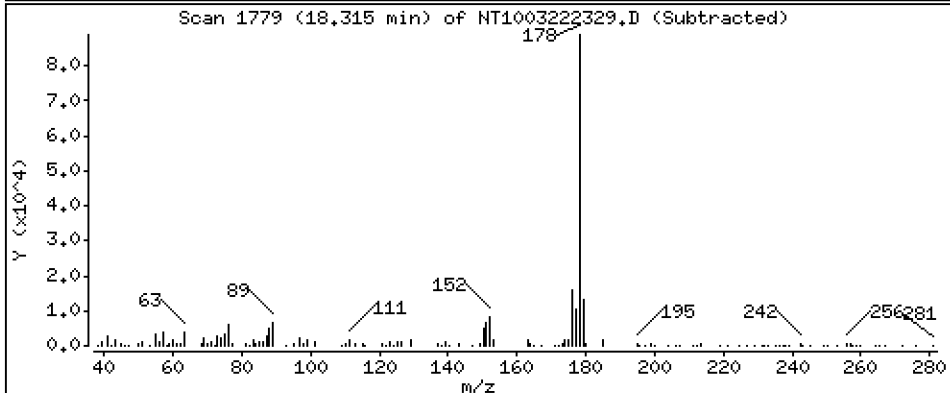
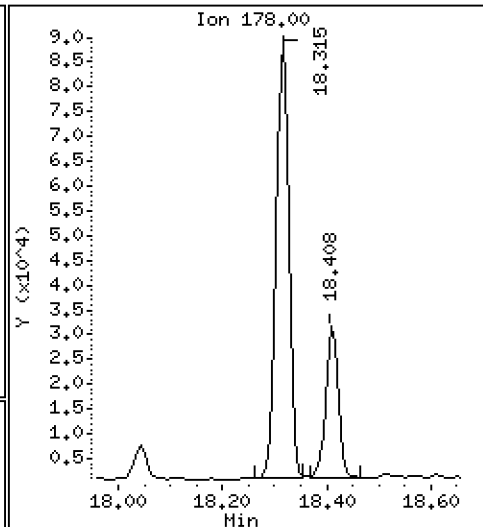
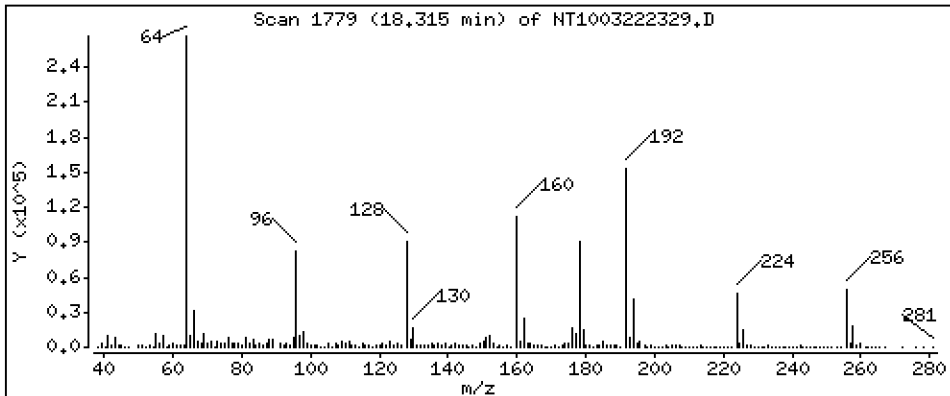
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 0,9072 ug/mL



Date : 23-MAR-2023 10:49

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-01RE1

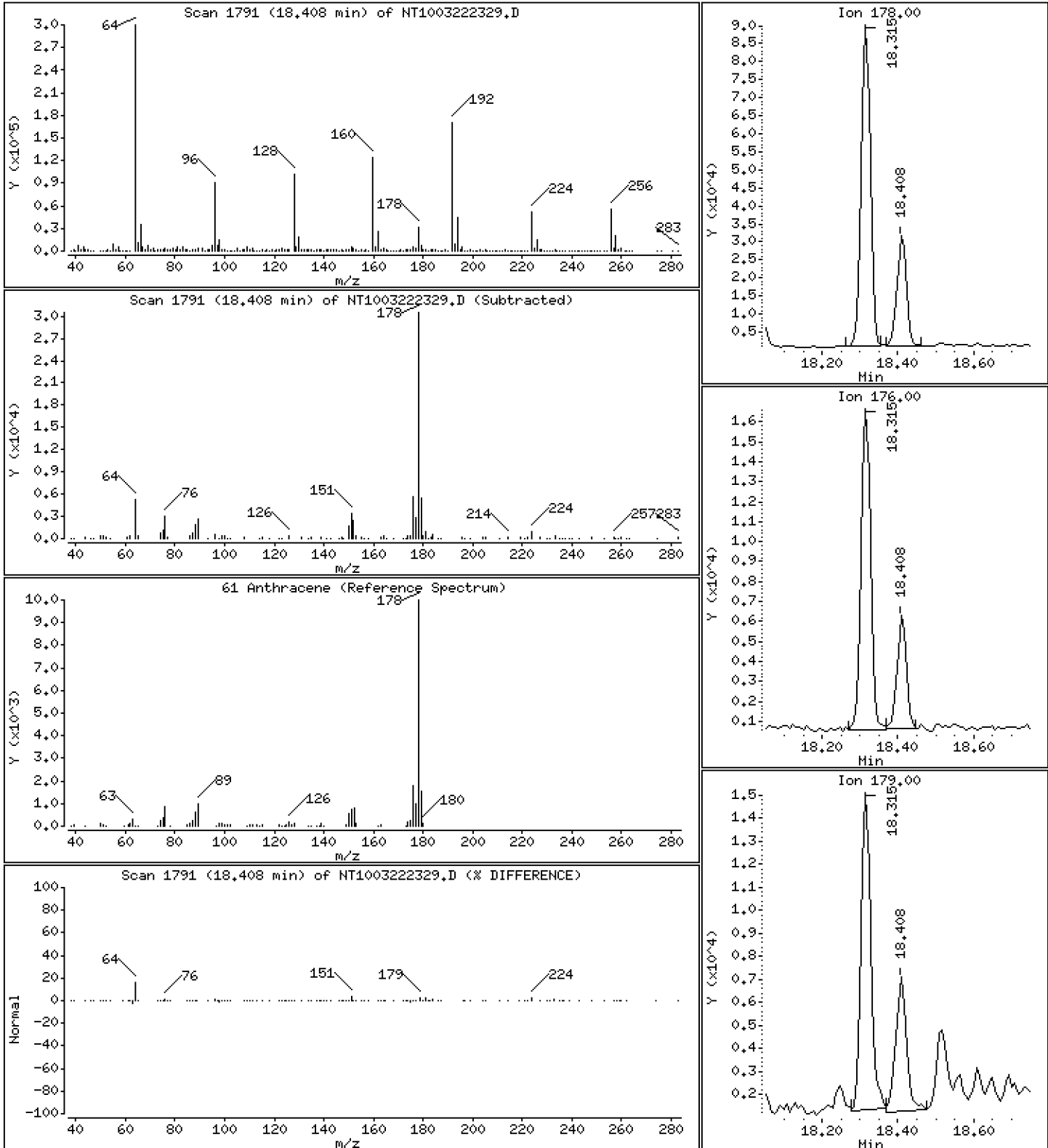
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 0,3521 ug/mL



Date : 23-MAR-2023 10:49

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-01RE1

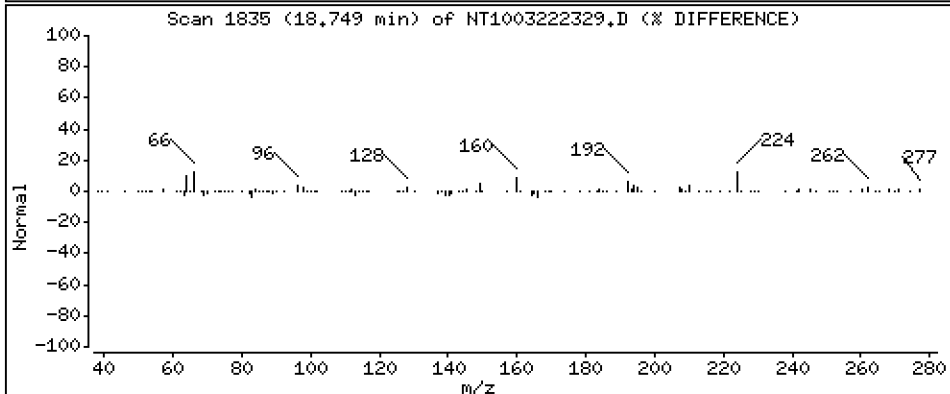
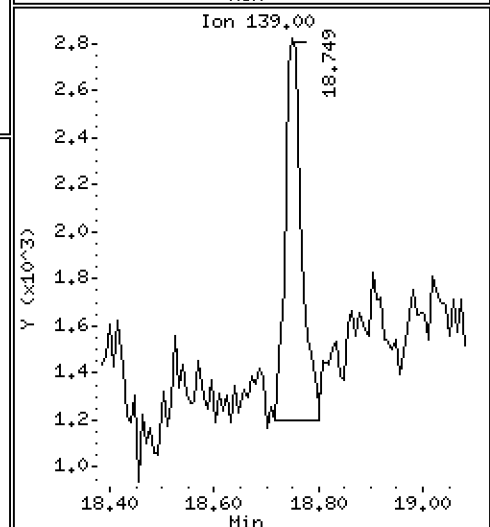
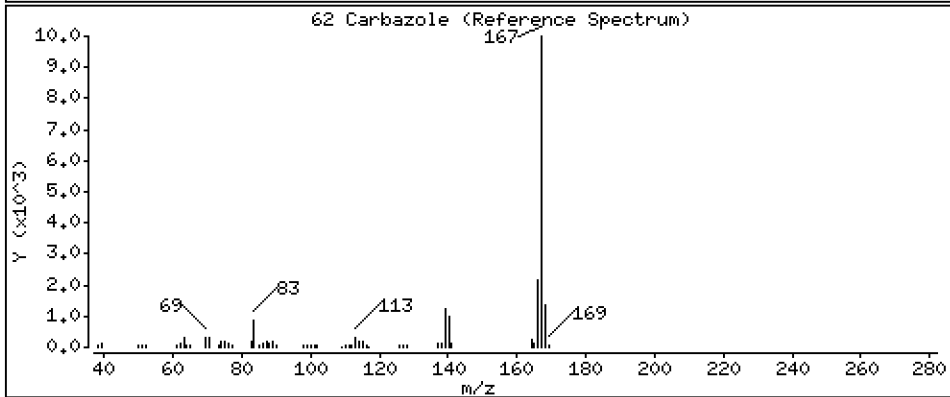
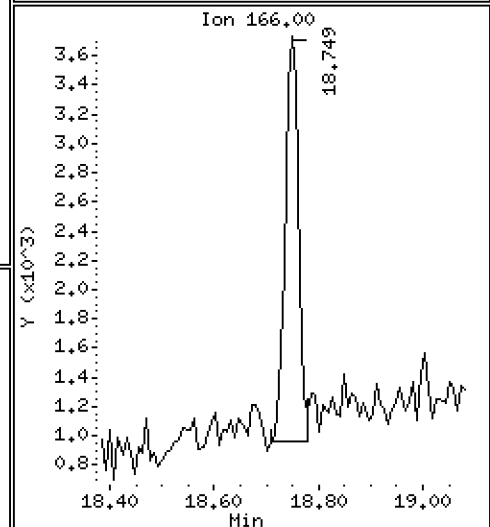
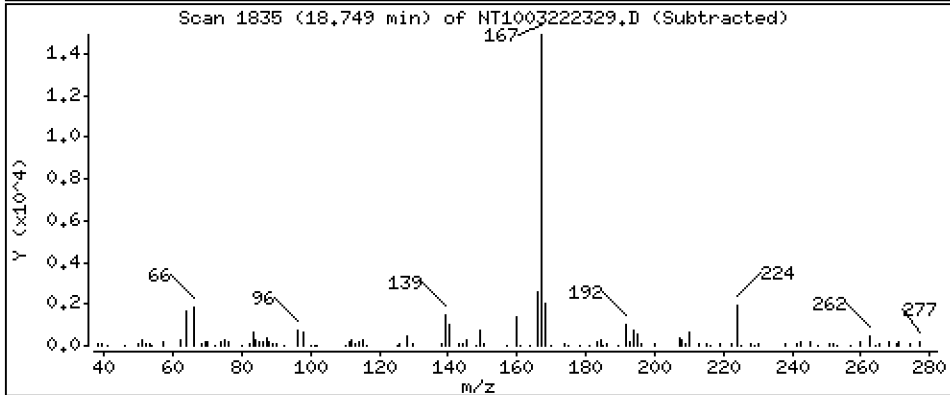
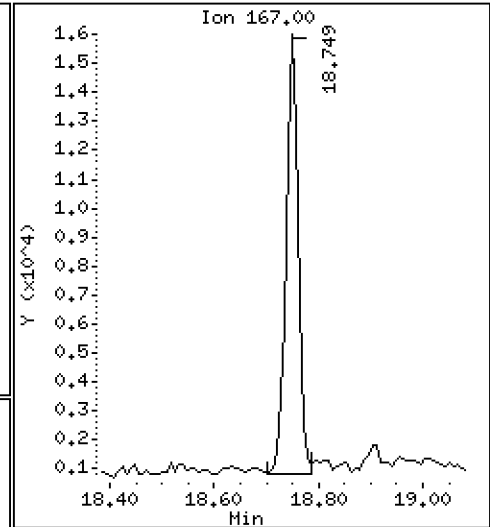
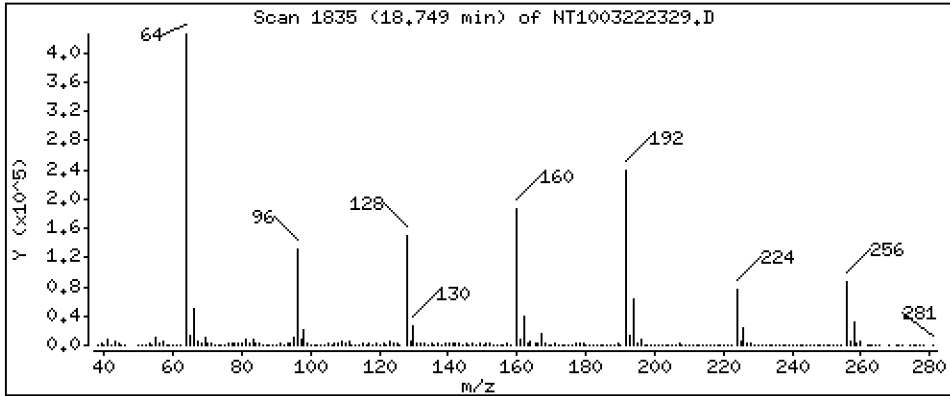
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 0,1877 ug/mL



Date : 23-MAR-2023 10:49

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-01RE1

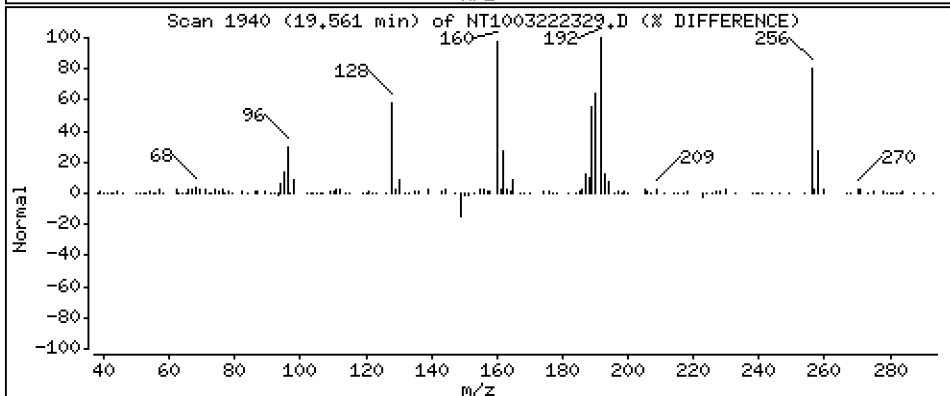
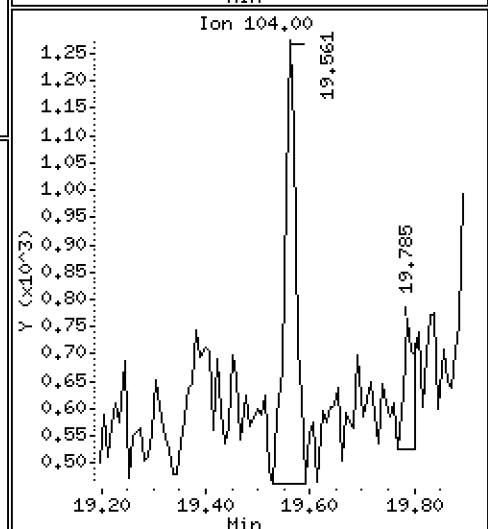
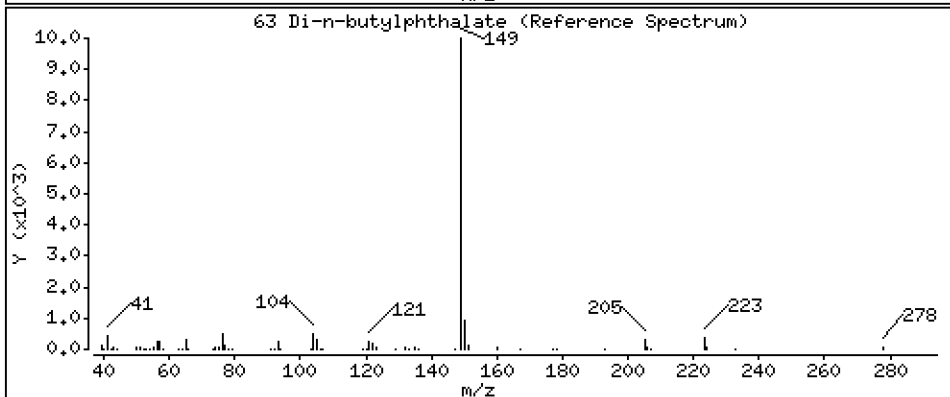
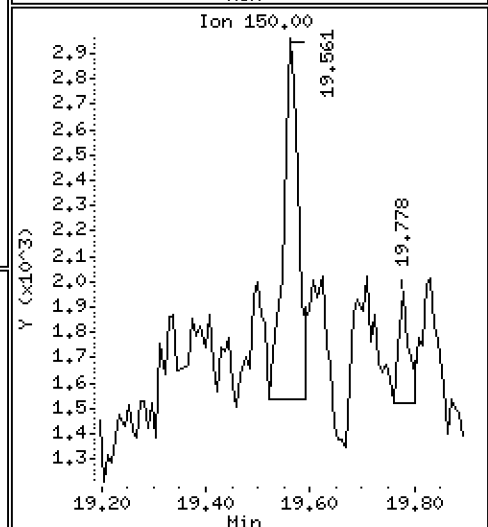
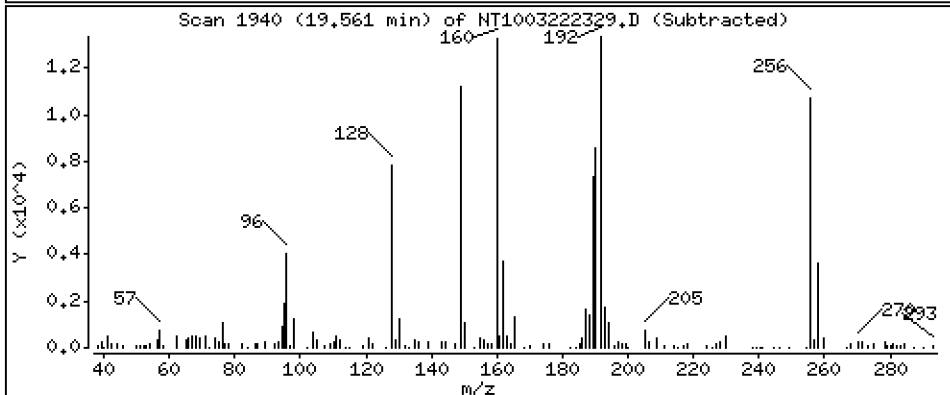
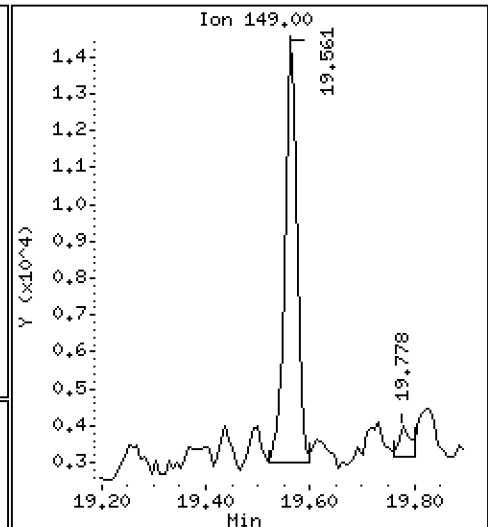
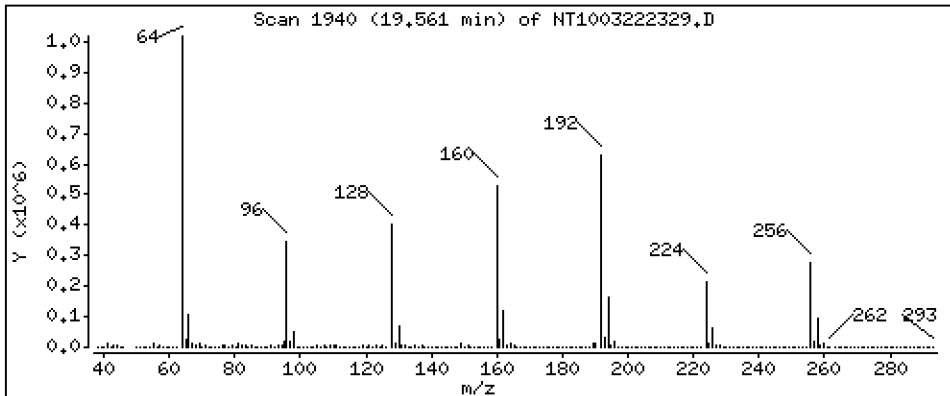
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

63 Di-n-butylphthalate

Concentration: 0.1042 ug/mL



Date : 23-MAR-2023 10:49

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-01RE1

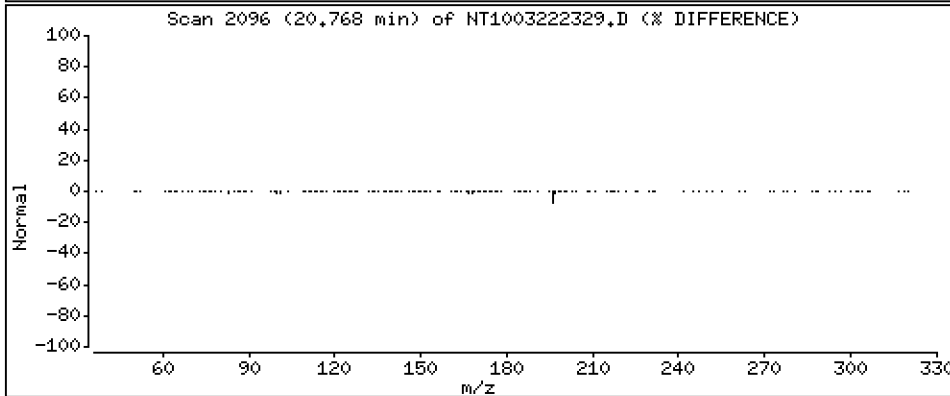
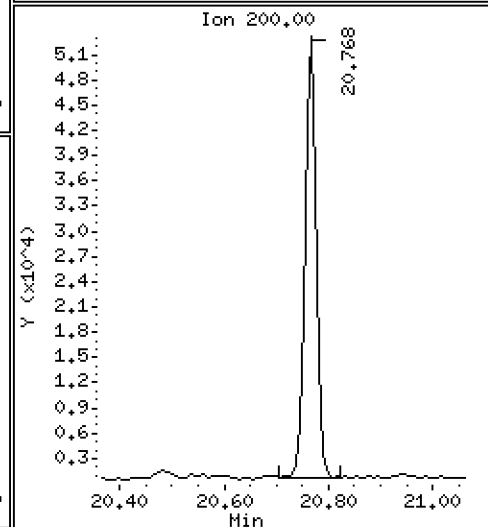
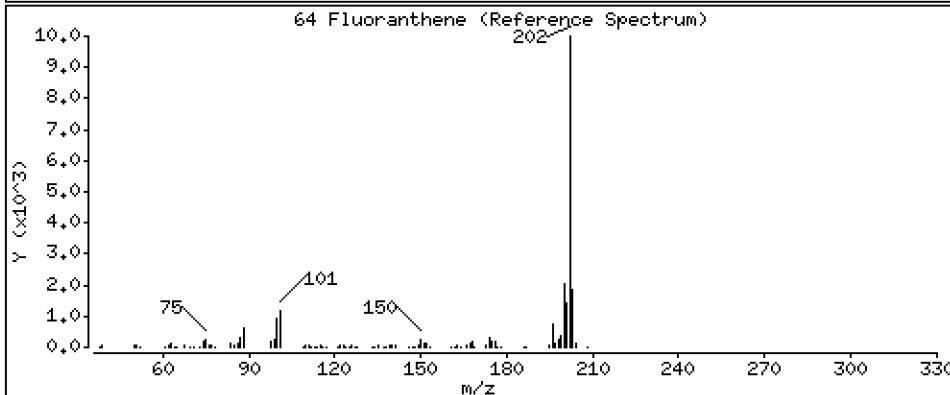
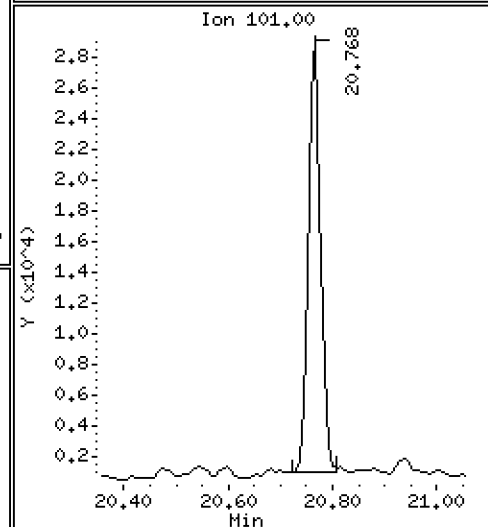
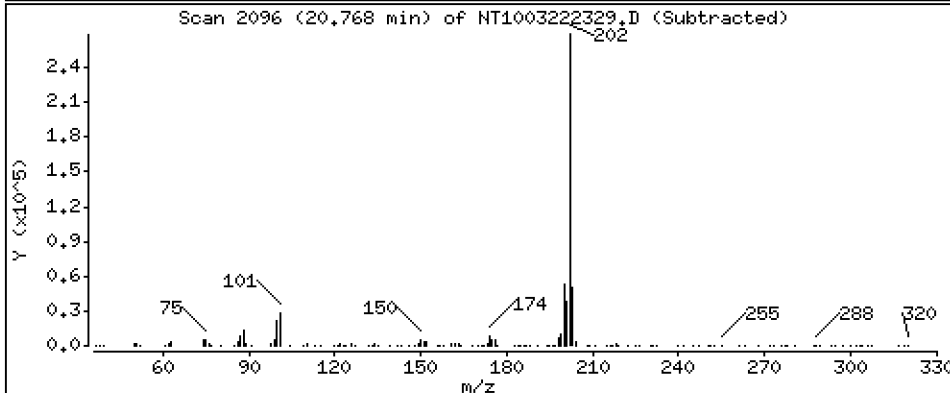
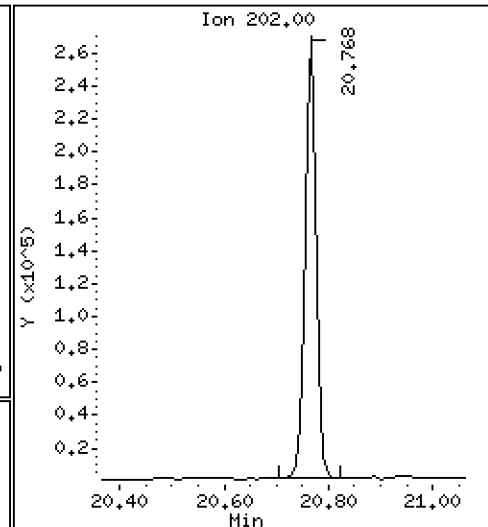
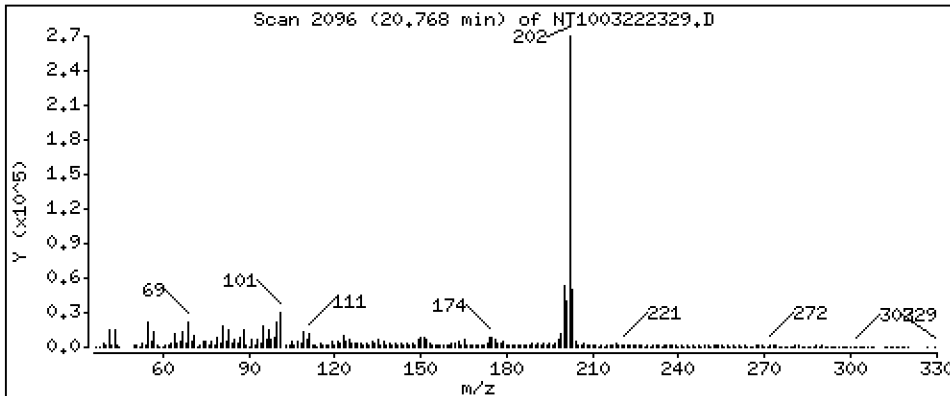
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 1,978 ug/mL



Date : 23-MAR-2023 10:49

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-01RE1

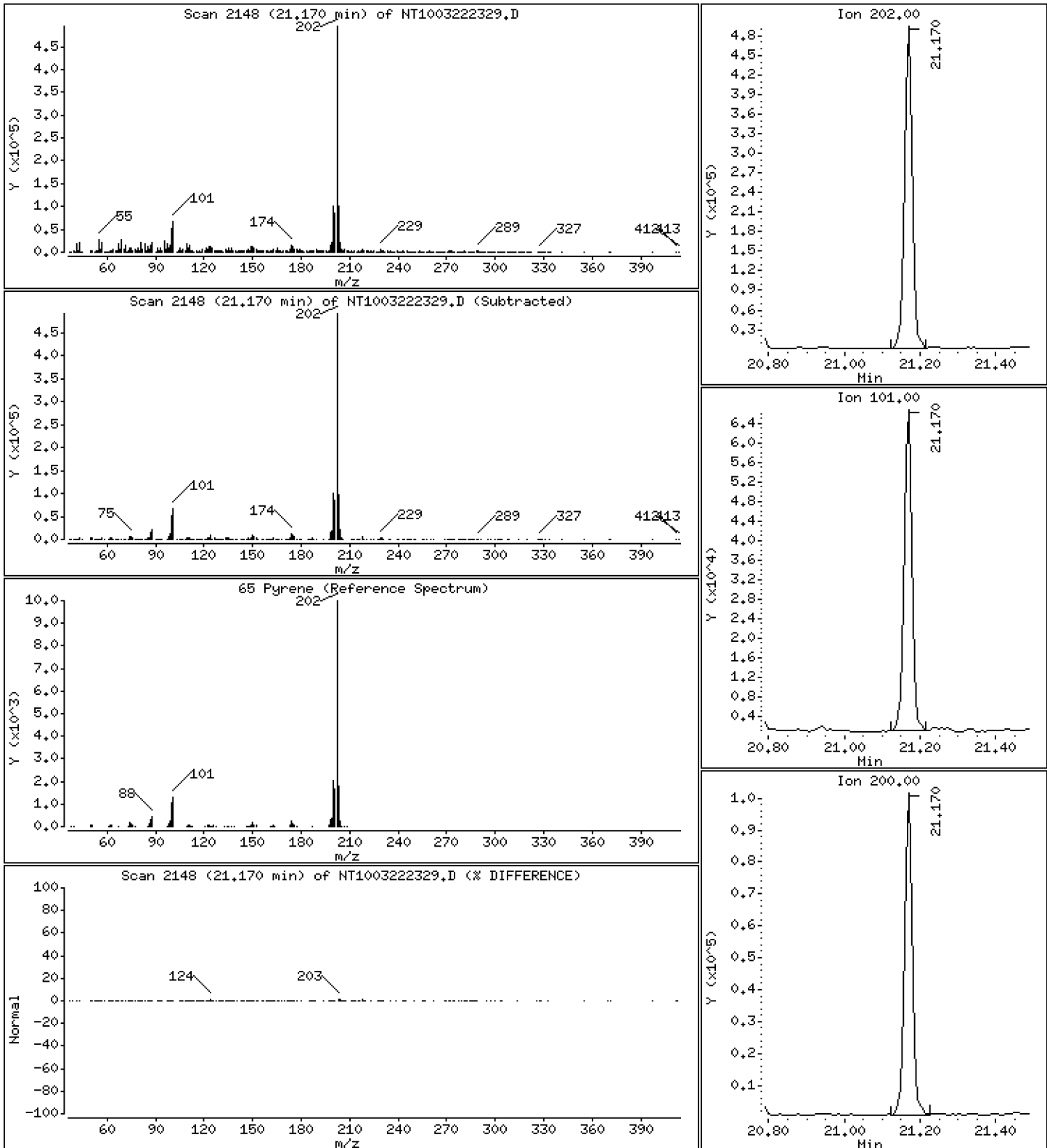
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 3,994 ug/mL



Date : 23-MAR-2023 10:49

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-01RE1

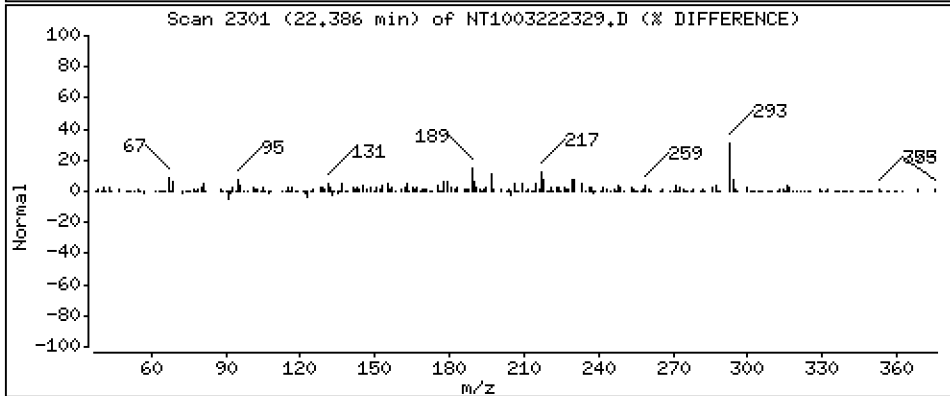
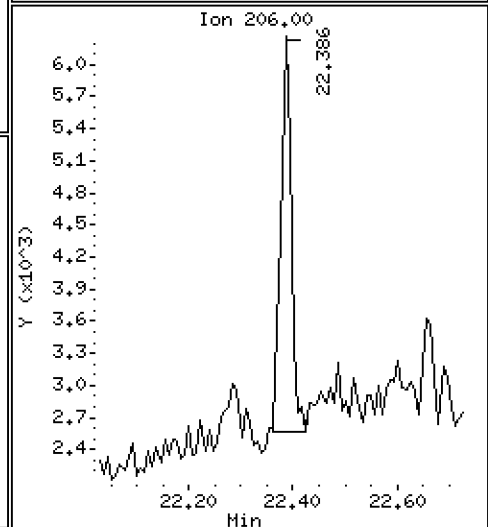
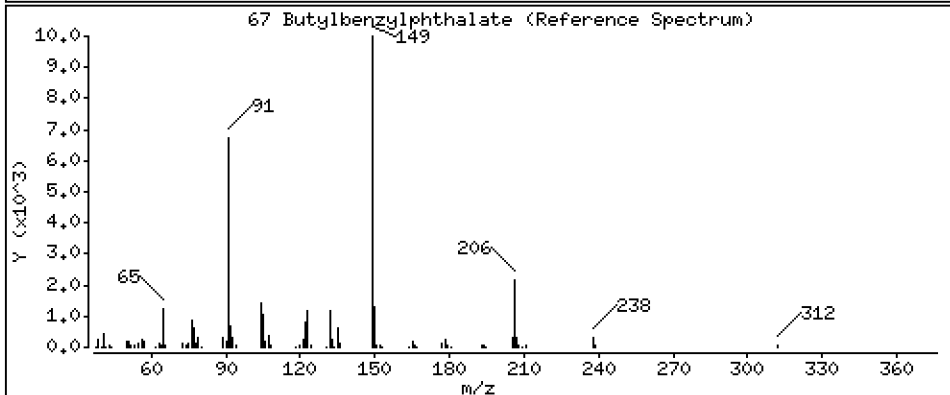
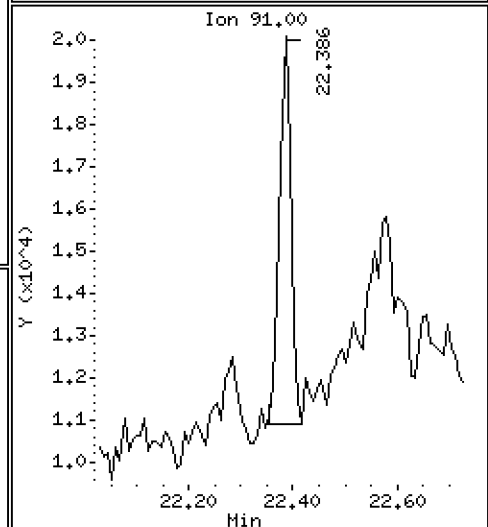
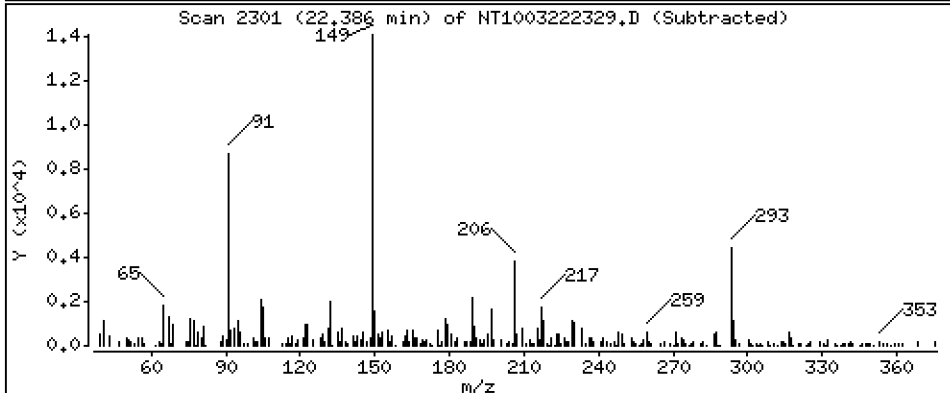
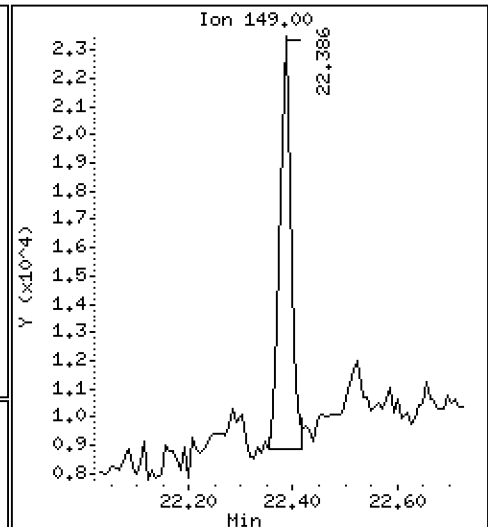
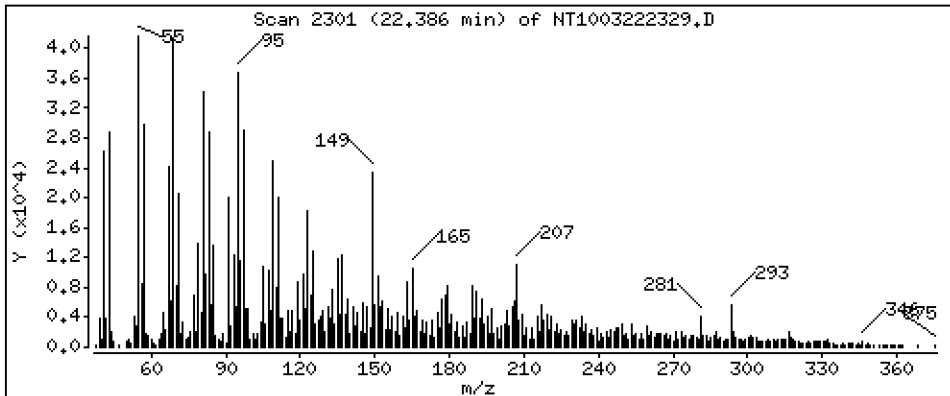
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

67 Butylbenzylphthalate

Concentration: 0.2730 ug/mL



Date : 23-MAR-2023 10:49

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-01RE1

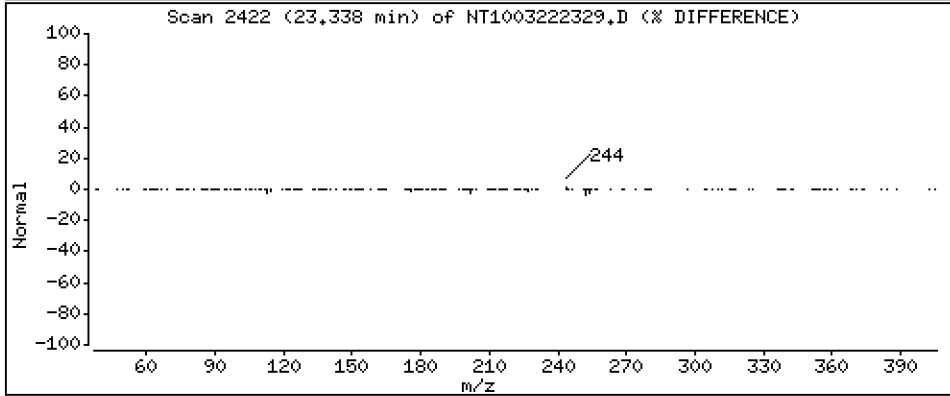
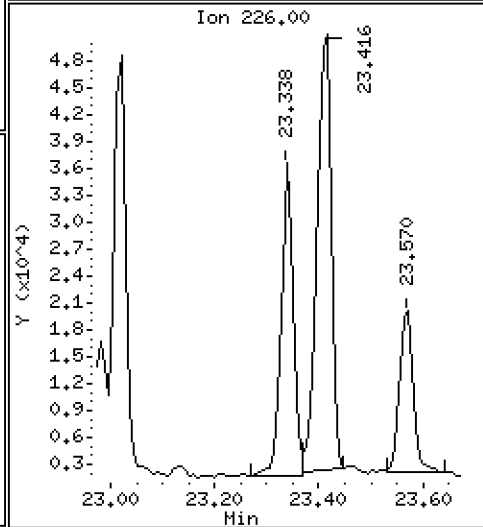
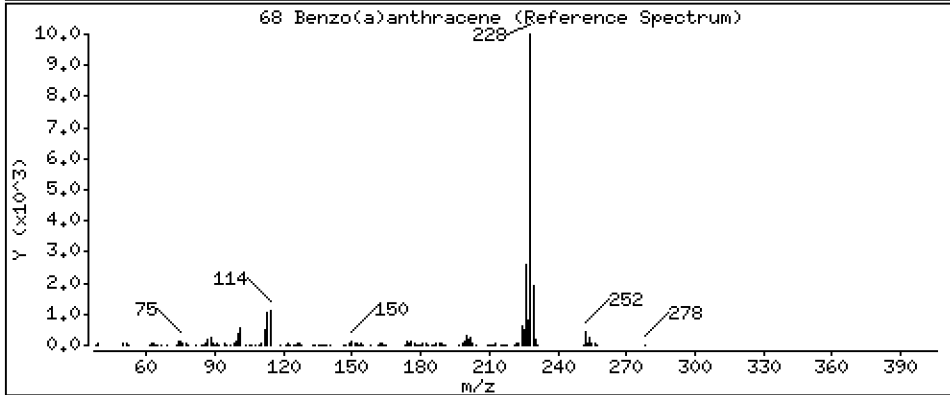
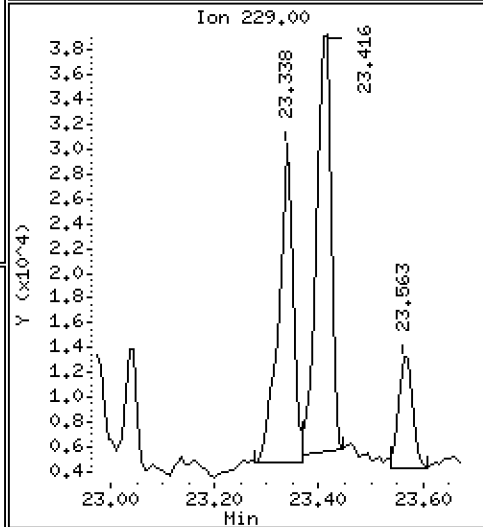
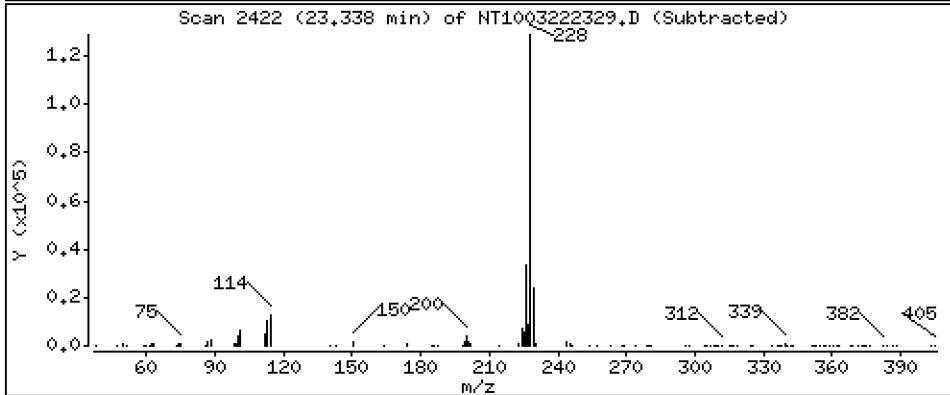
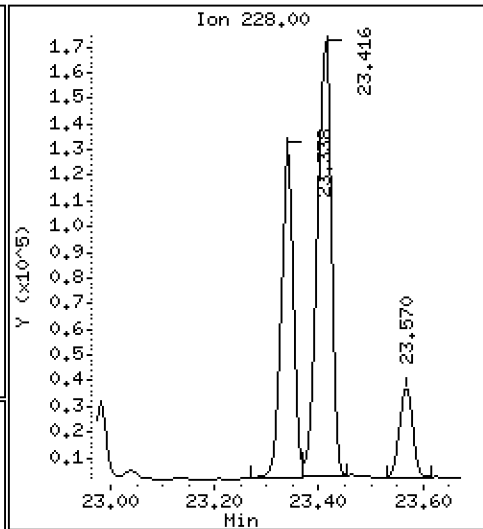
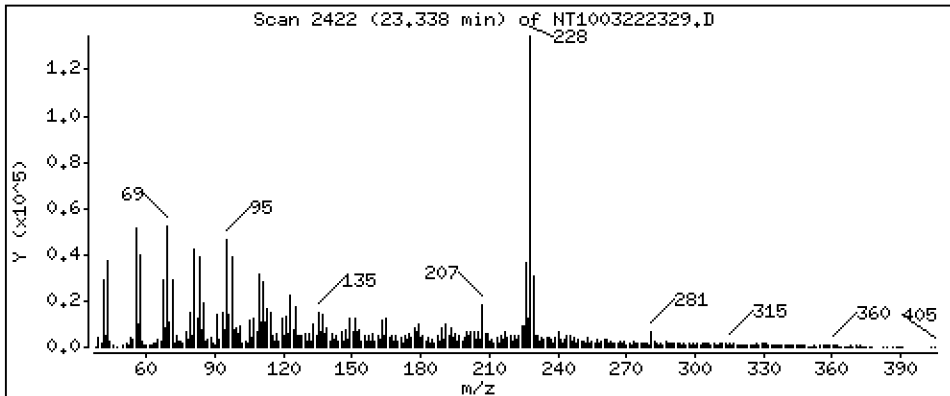
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 1,125 ug/mL



Date : 23-MAR-2023 10:49

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-01RE1

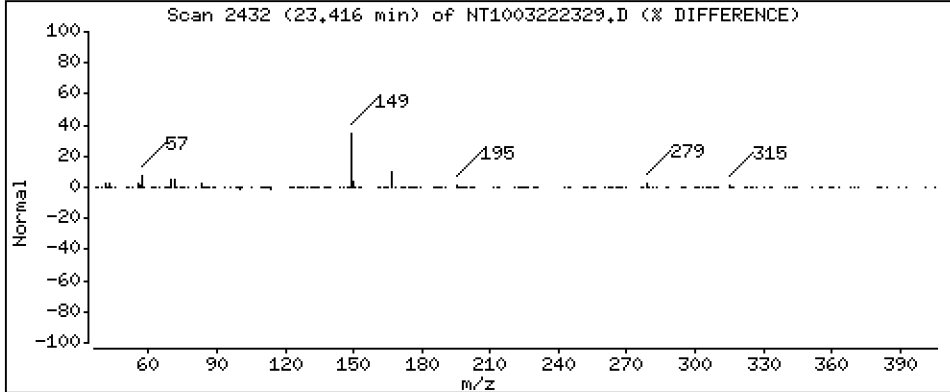
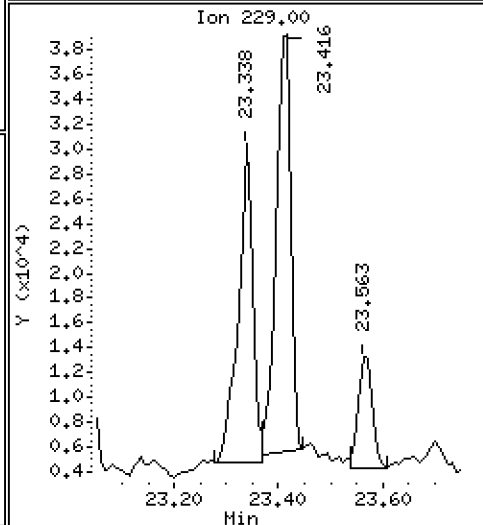
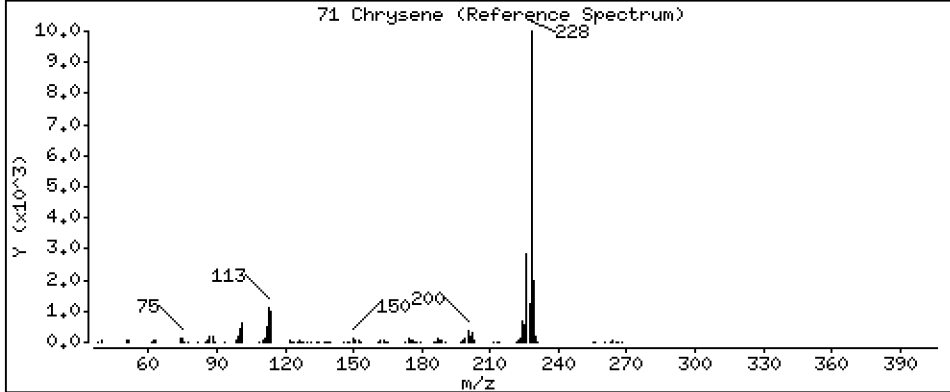
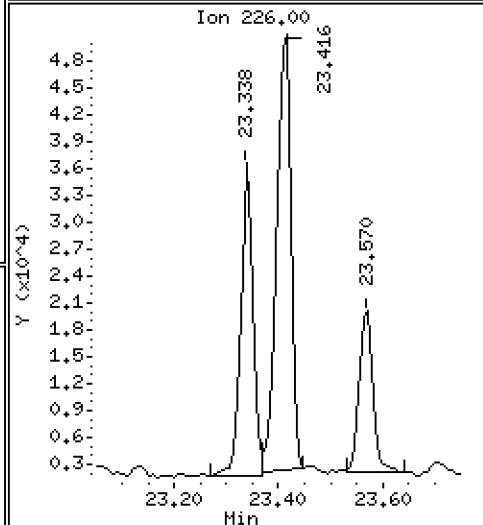
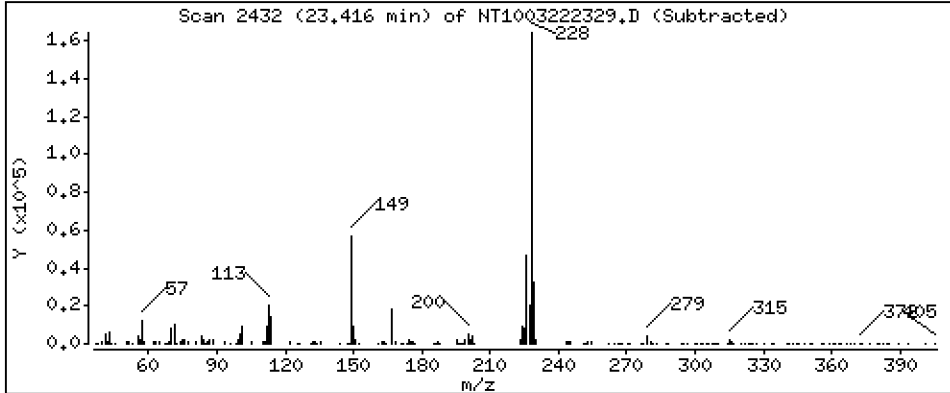
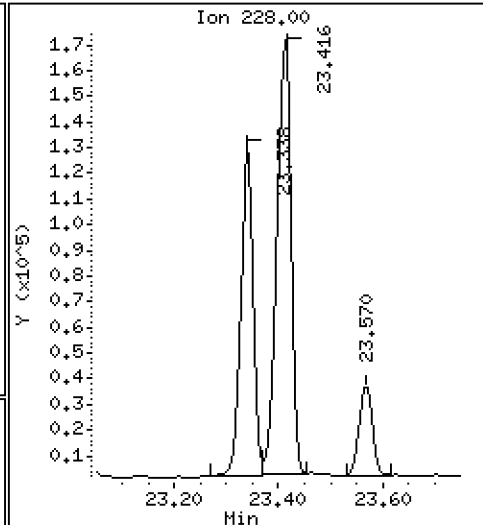
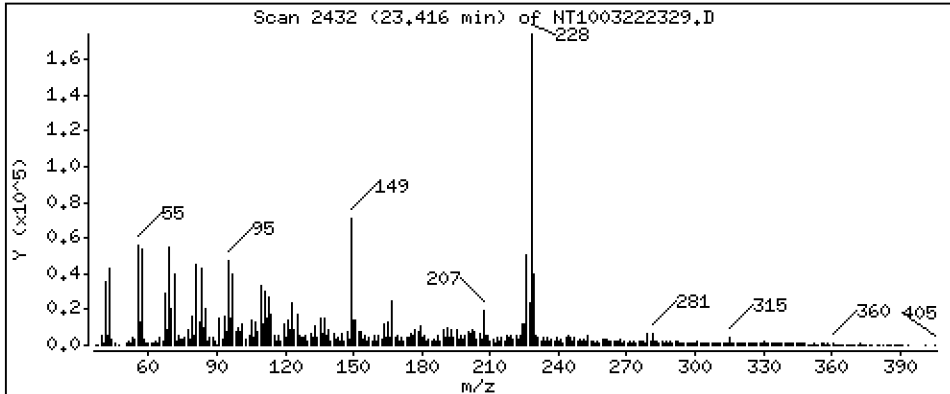
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 1,708 ug/mL



Date : 23-MAR-2023 10:49

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-01RE1

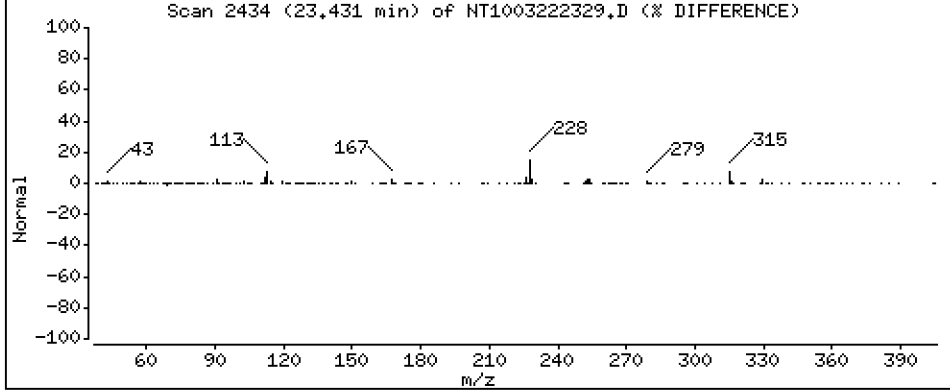
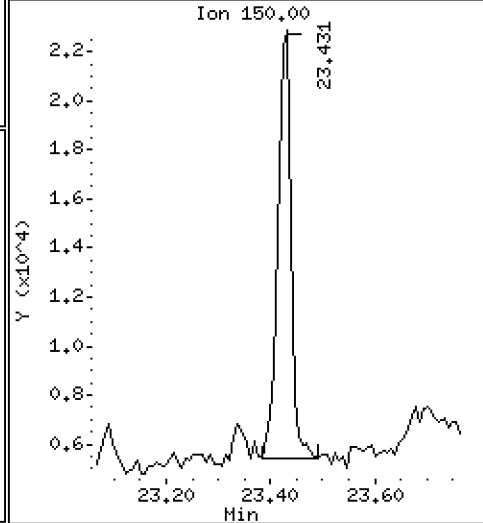
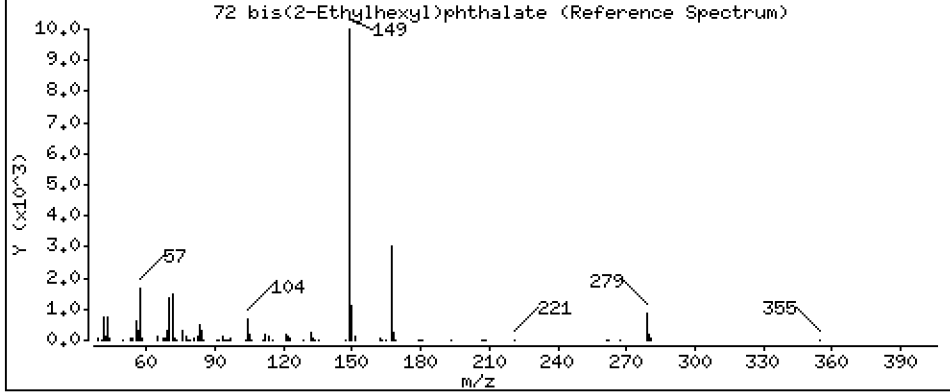
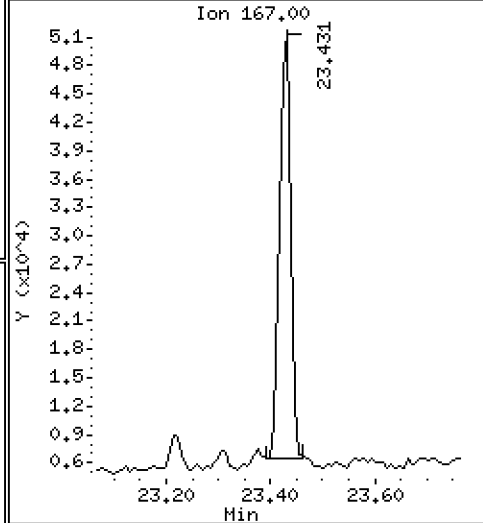
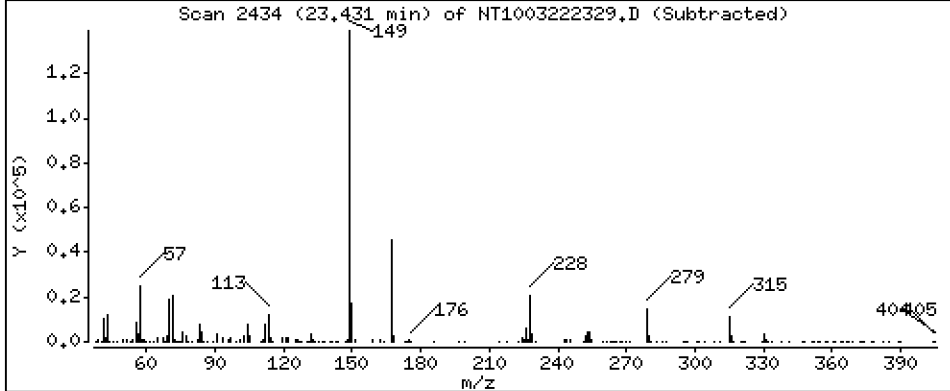
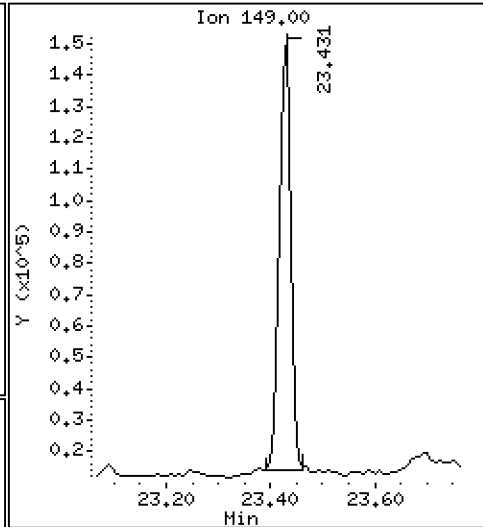
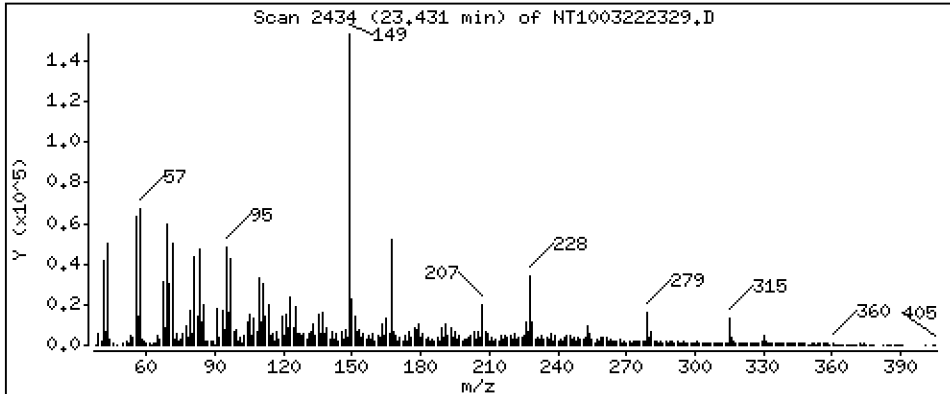
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 1,649 ug/mL



Date : 23-MAR-2023 10:49

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-01RE1

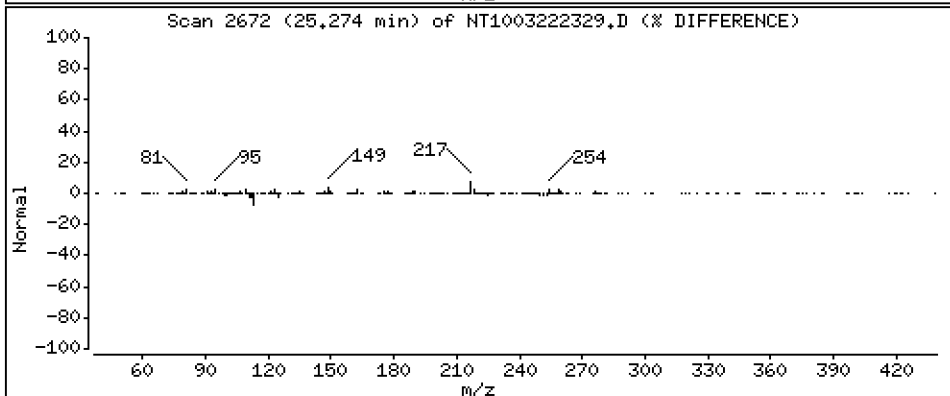
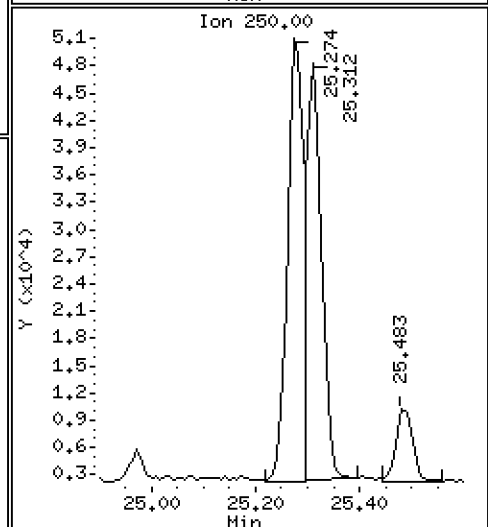
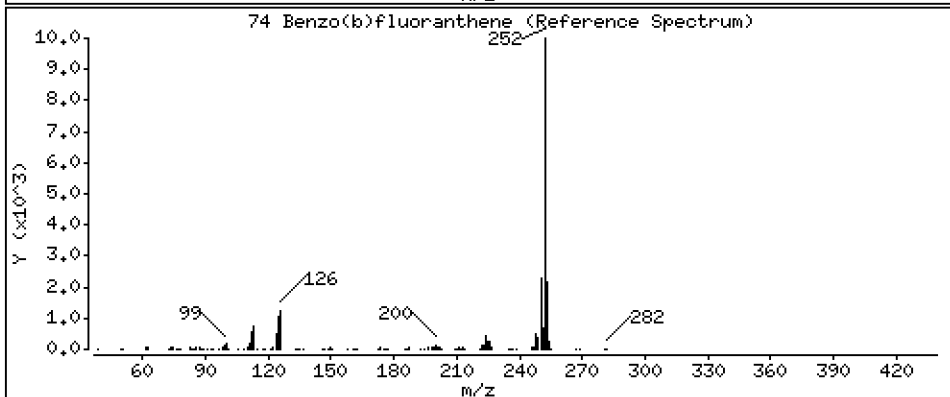
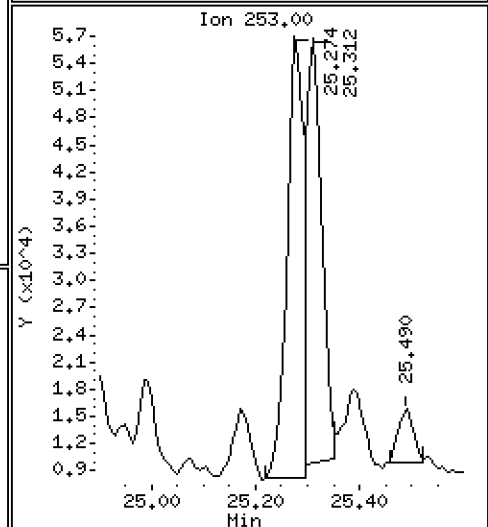
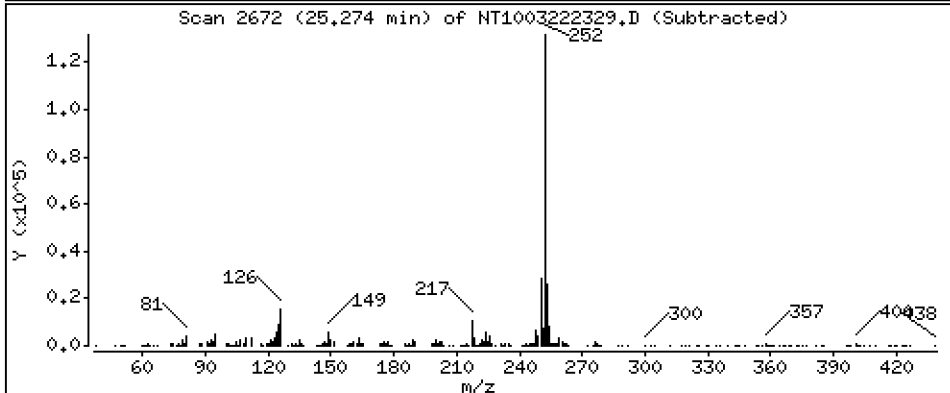
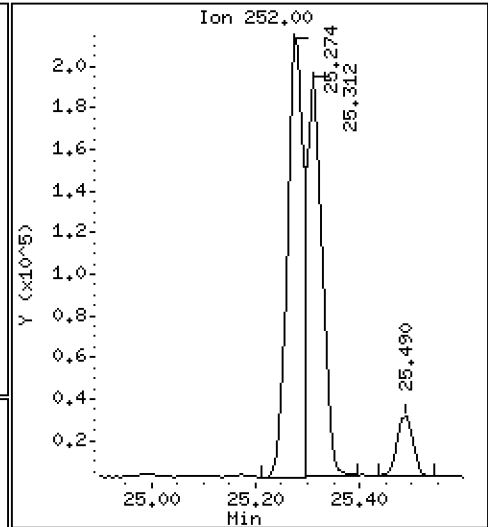
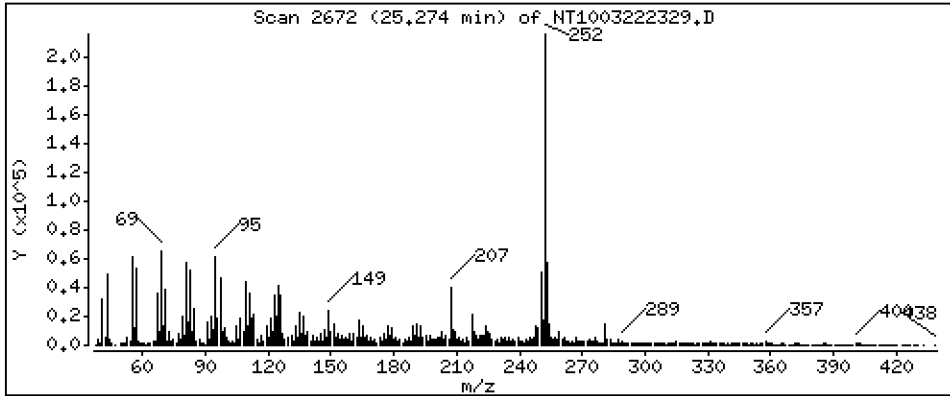
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 2,653 ug/mL



Date : 23-MAR-2023 10:49

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-01RE1

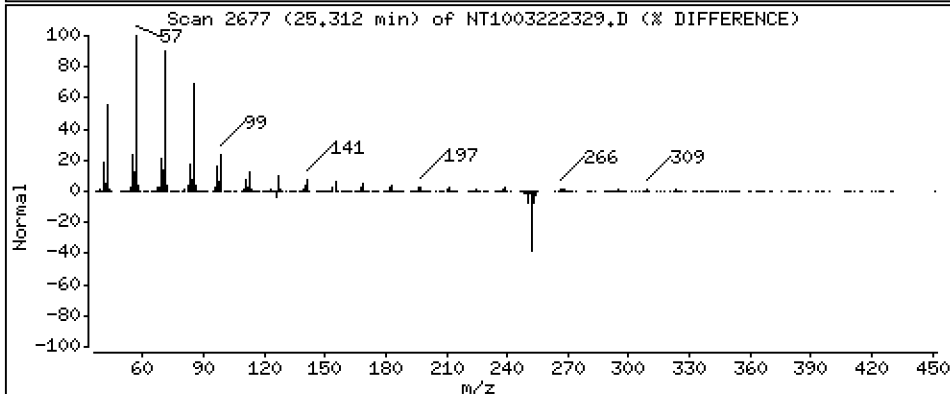
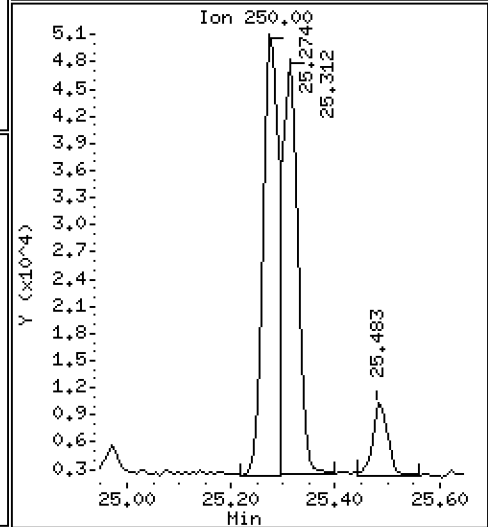
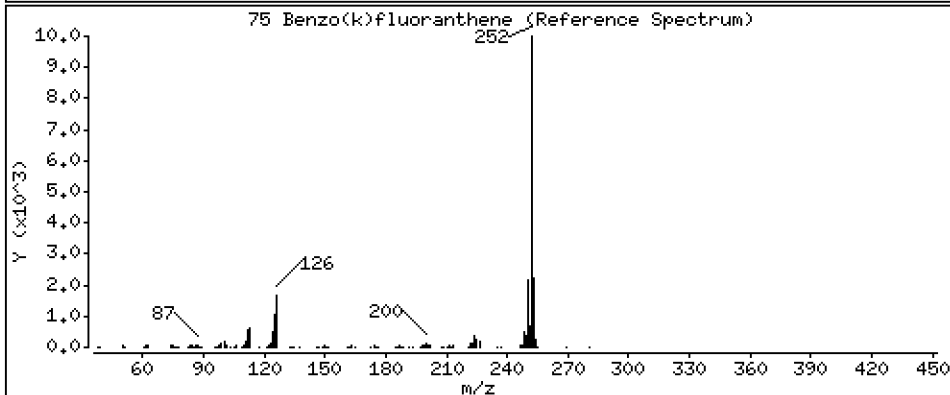
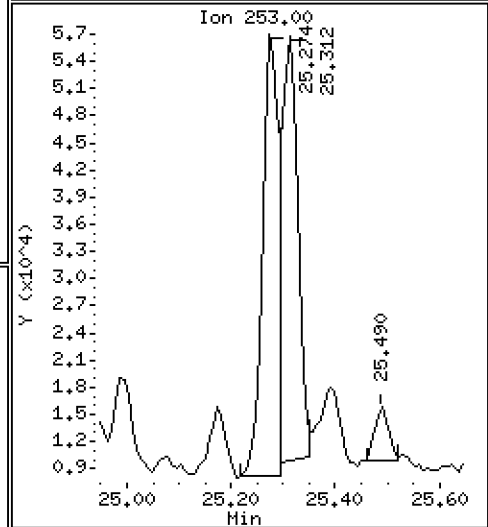
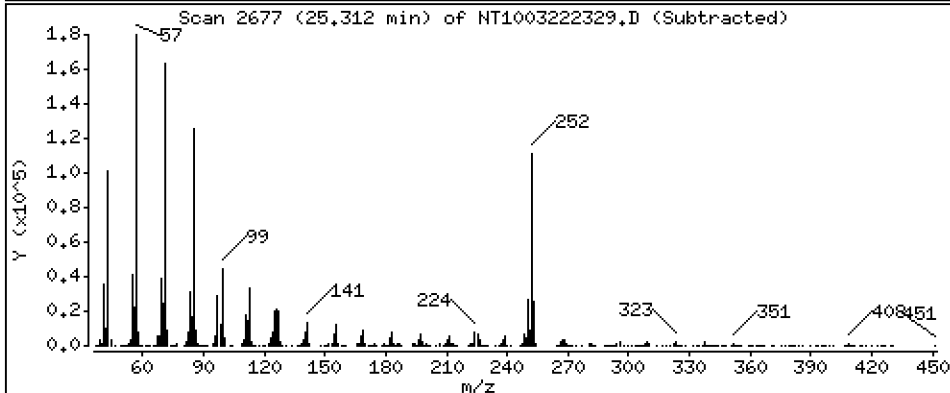
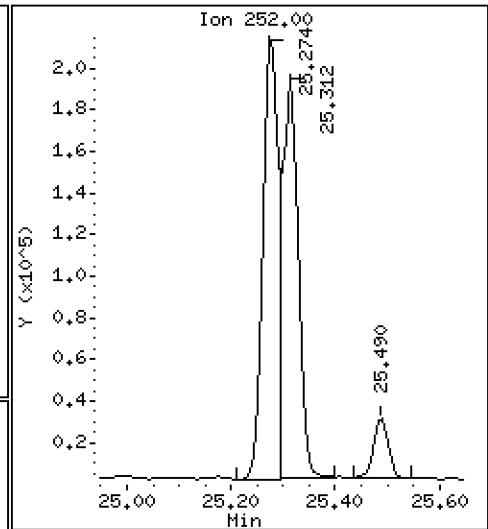
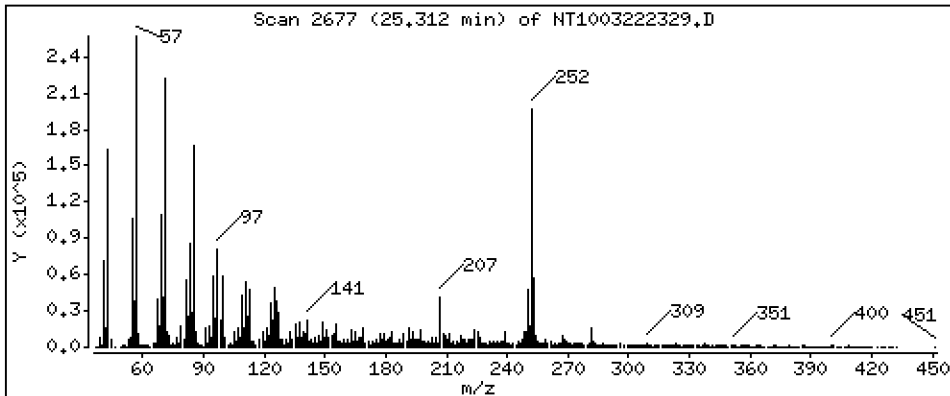
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 2,229 ug/mL



Date : 23-MAR-2023 10:49

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-01RE1

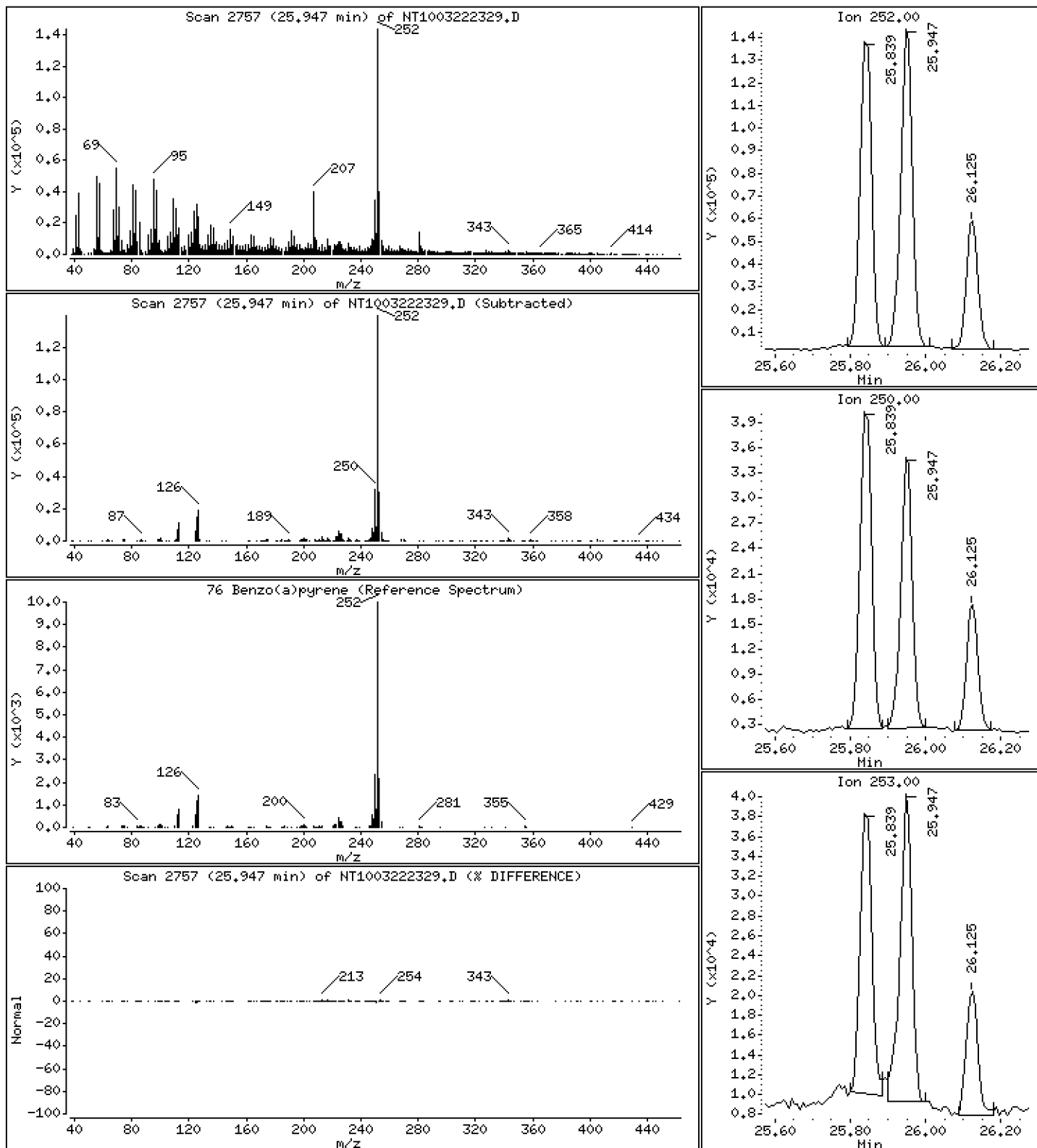
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 1,887 ug/mL



Date : 23-MAR-2023 10:49

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-01RE1

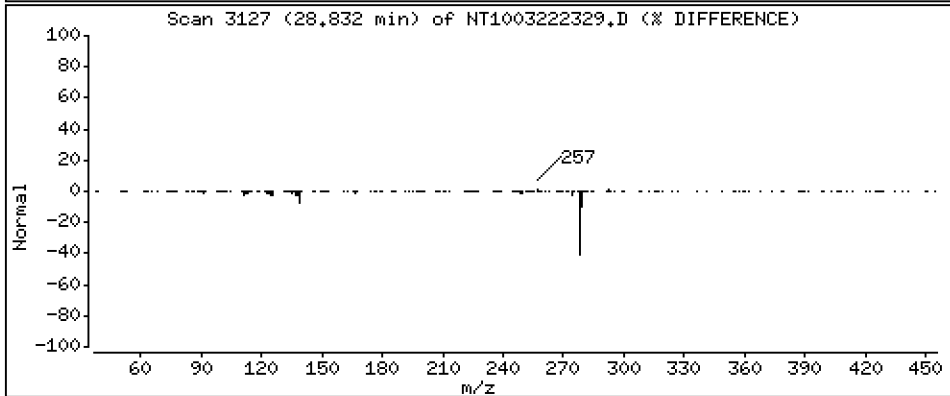
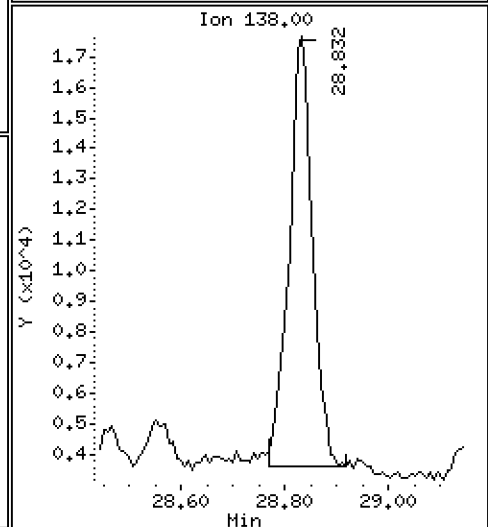
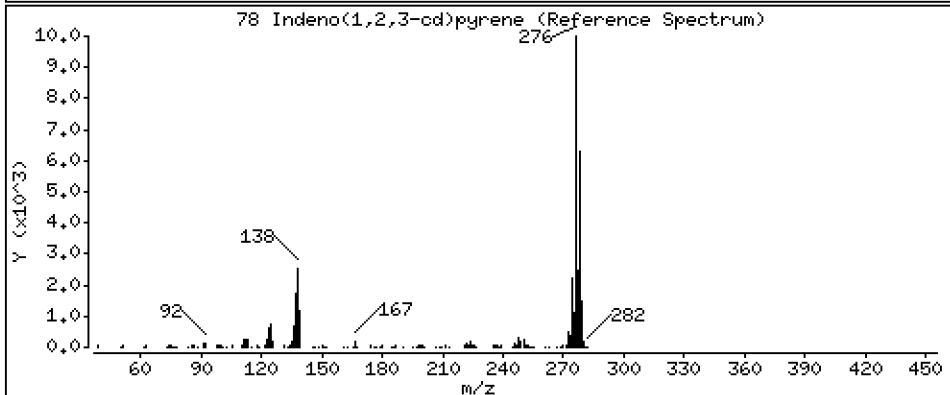
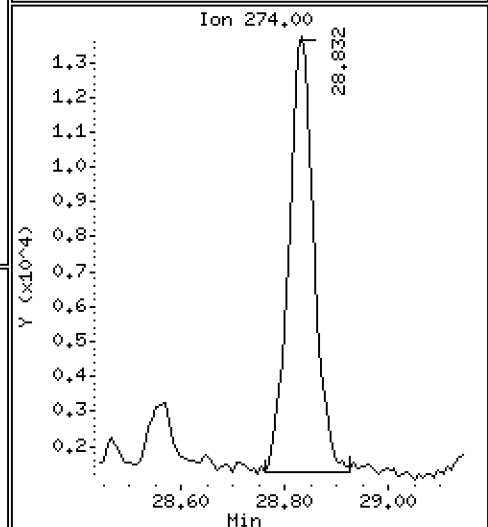
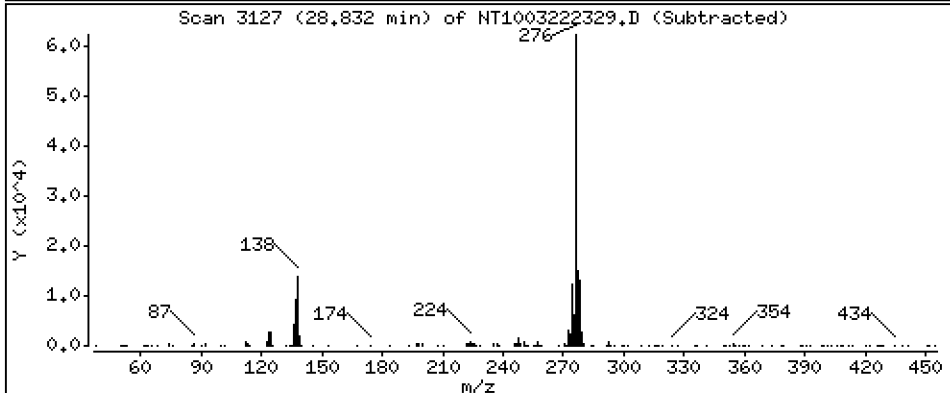
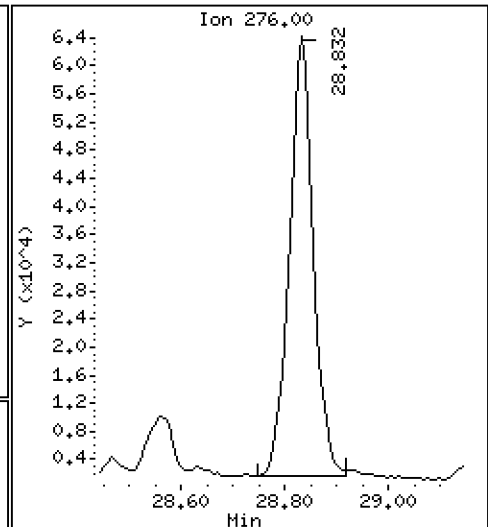
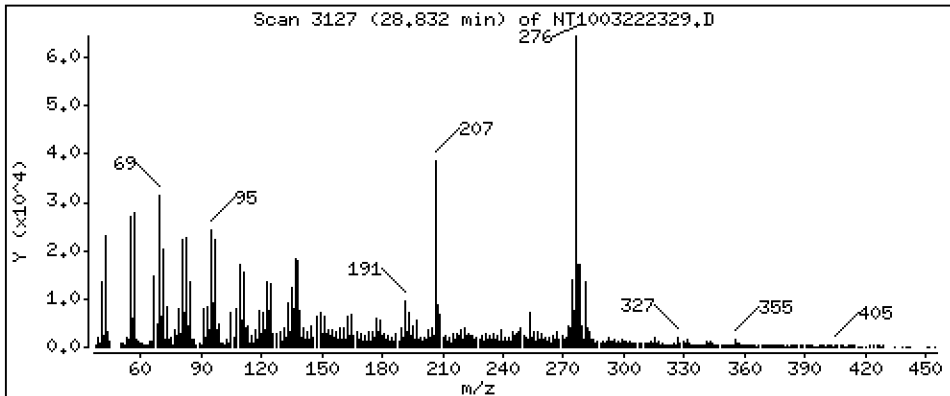
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 0,9981 ug/mL



Date : 23-MAR-2023 10:49

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-01RE1

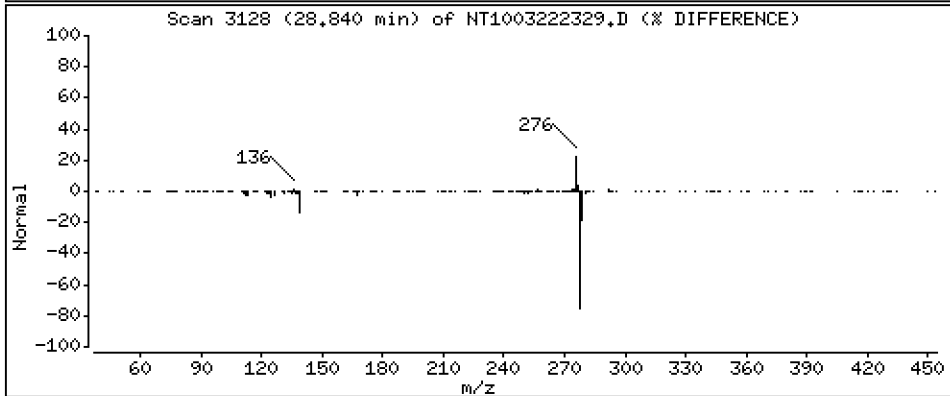
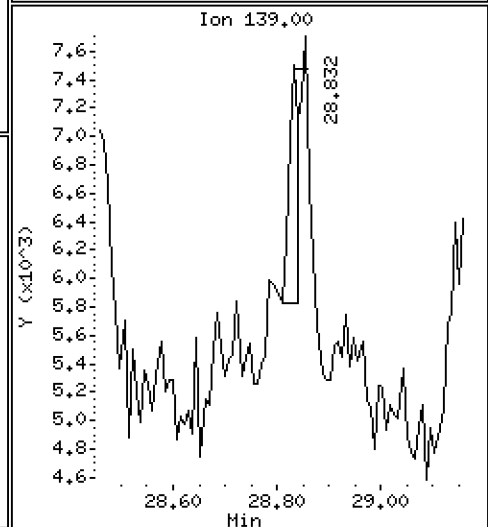
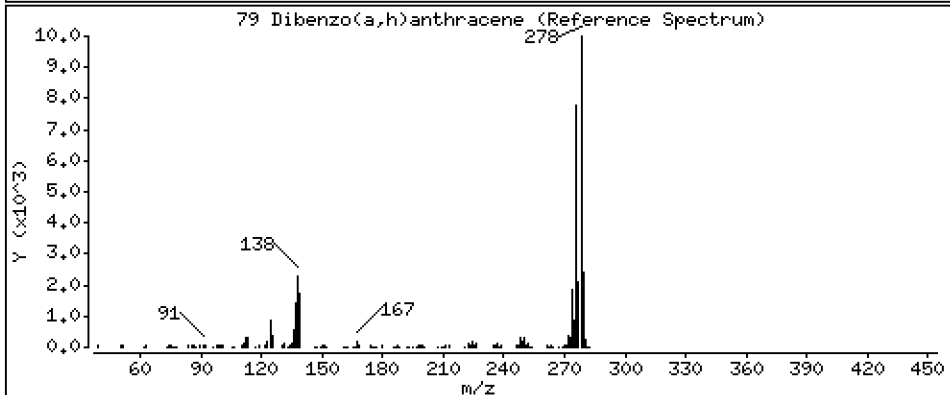
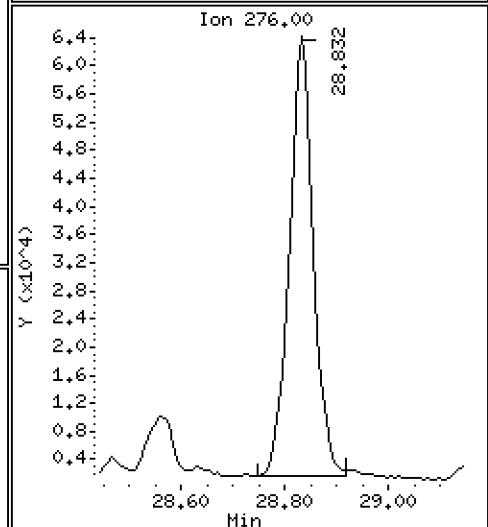
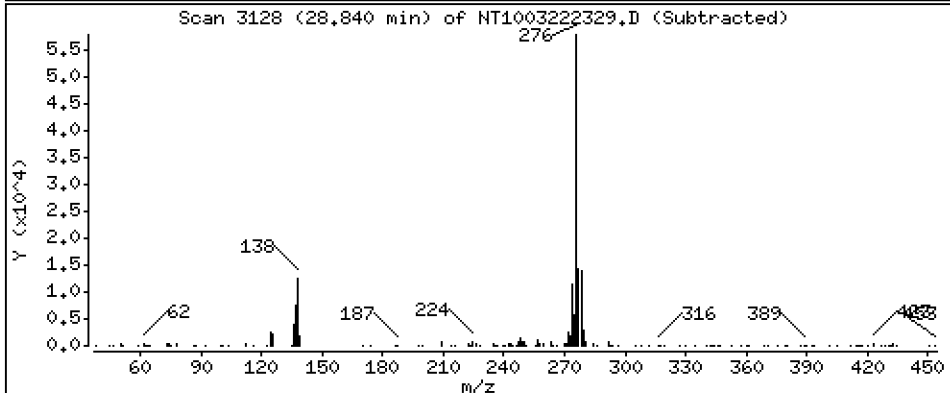
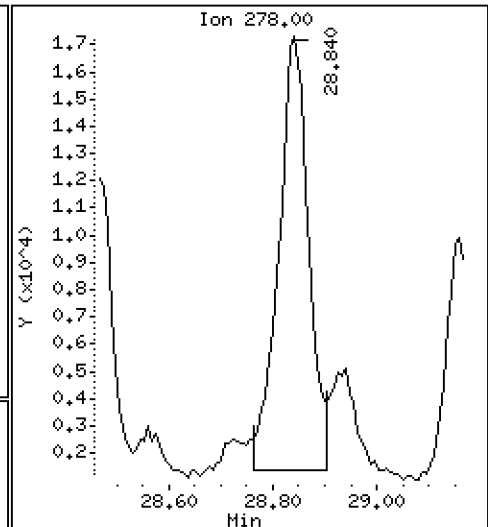
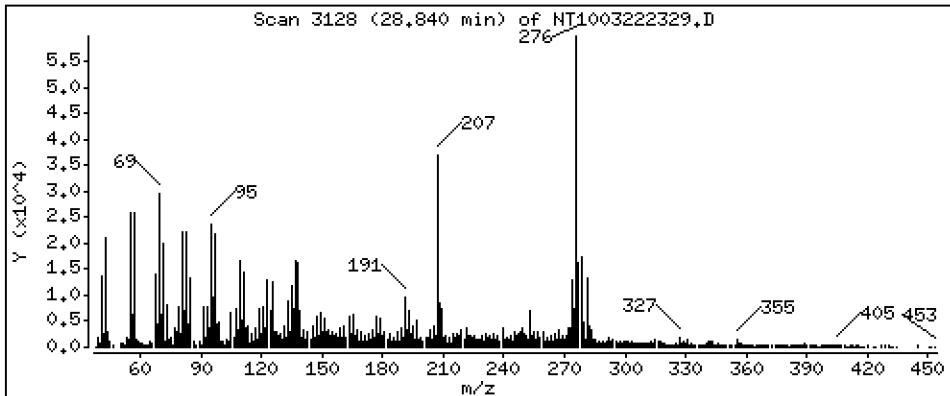
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 0,3805 ug/mL



Date : 23-MAR-2023 10:49

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-01RE1

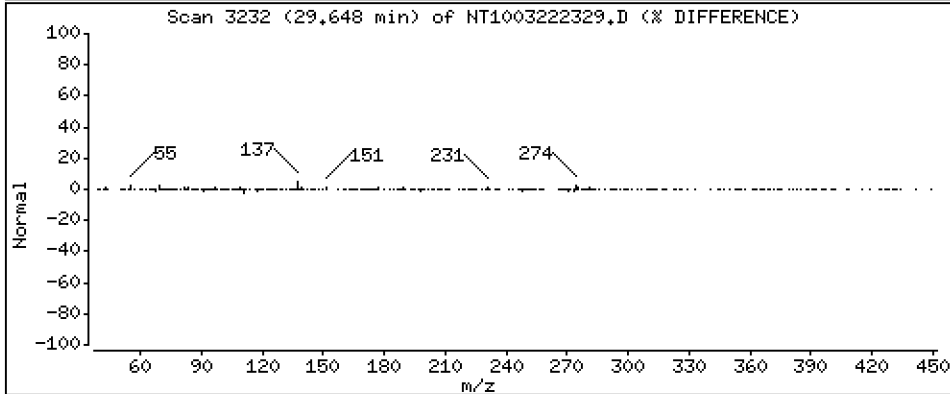
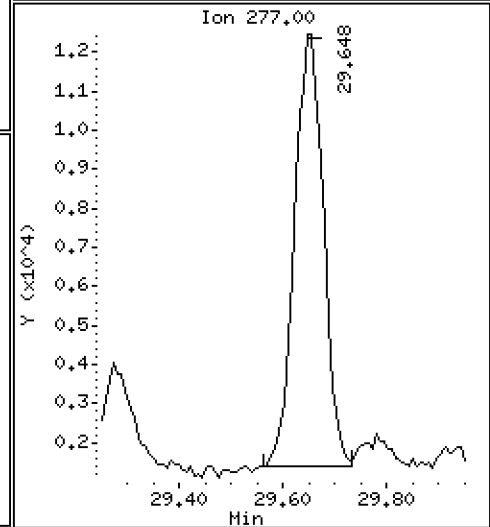
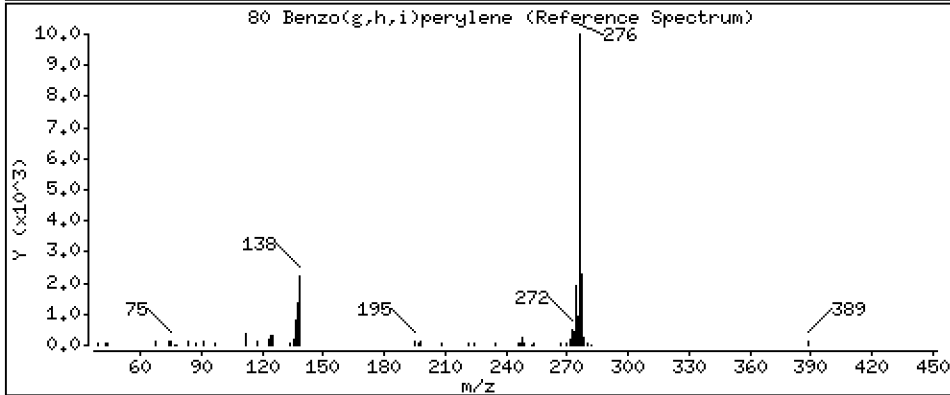
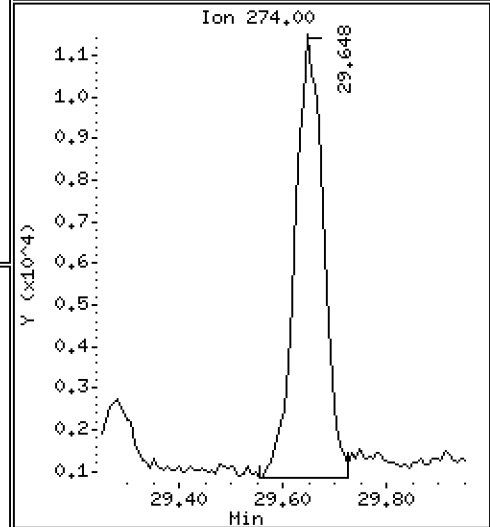
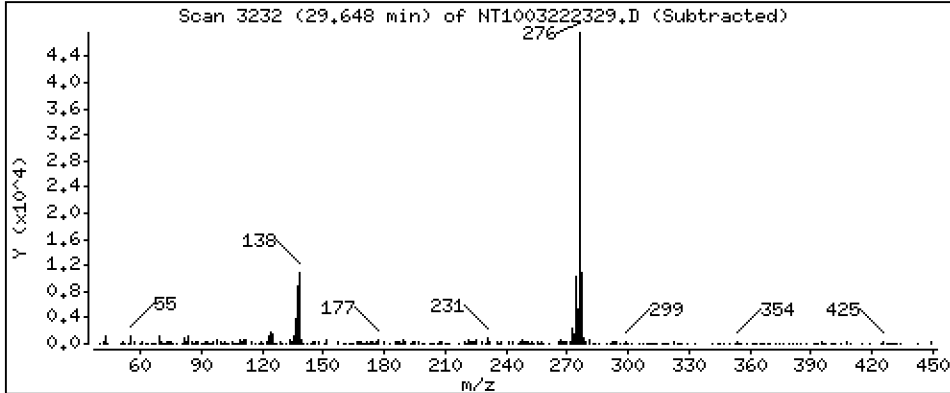
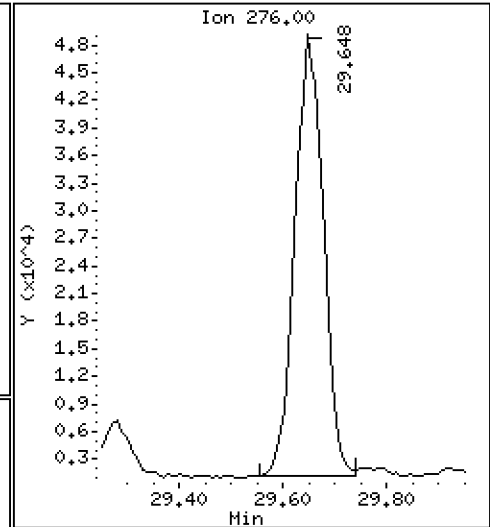
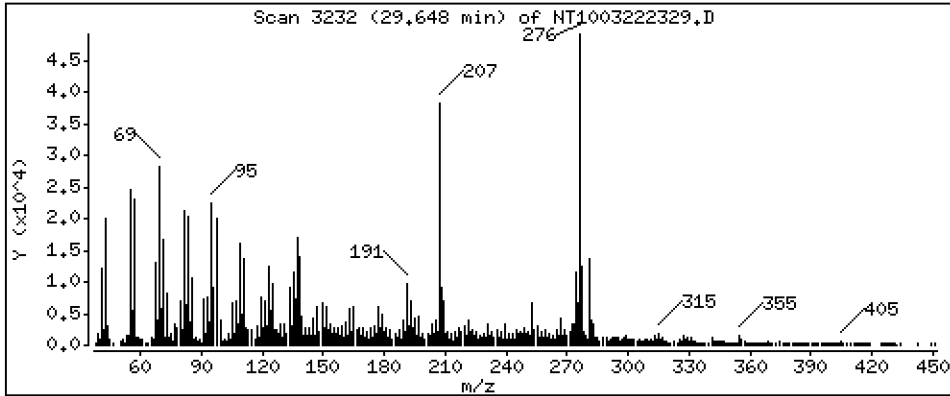
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 1,040 ug/mL



Date : 23-MAR-2023 10:49

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-01RE1

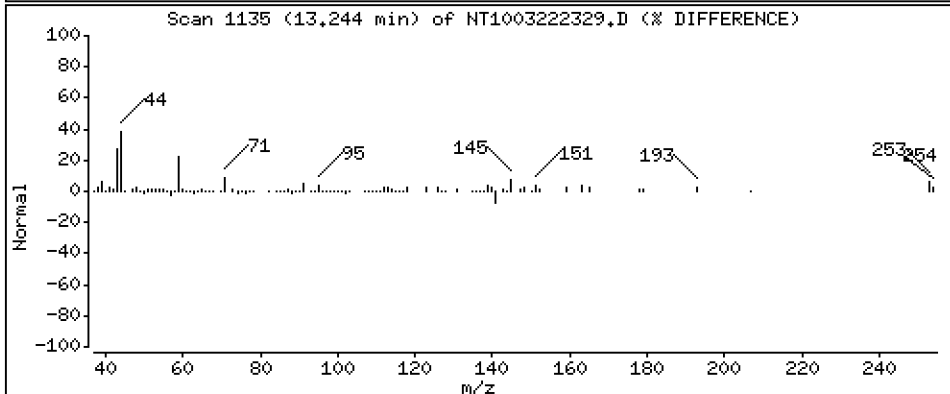
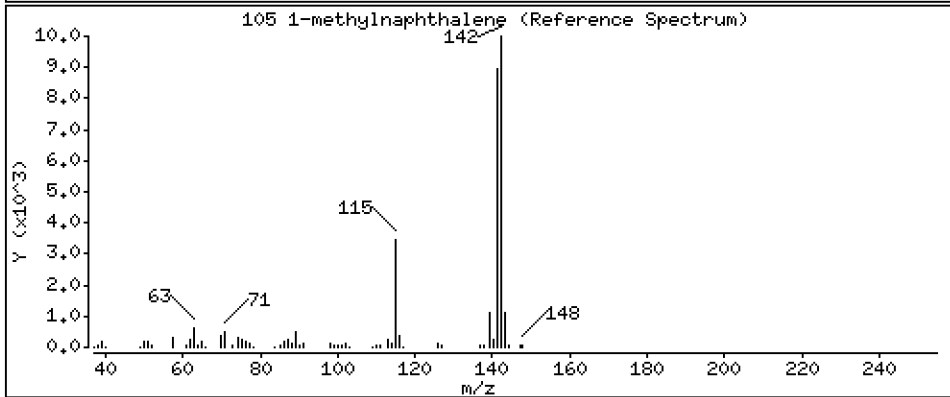
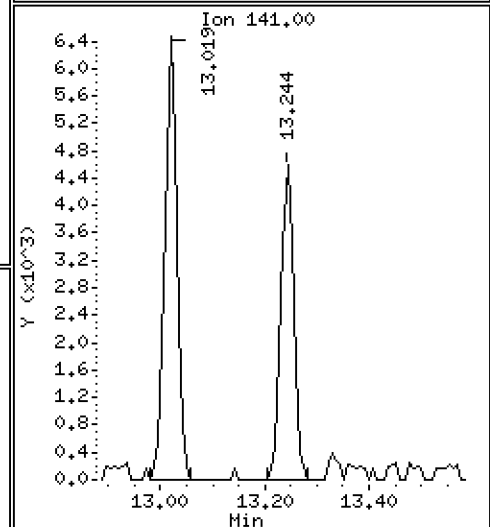
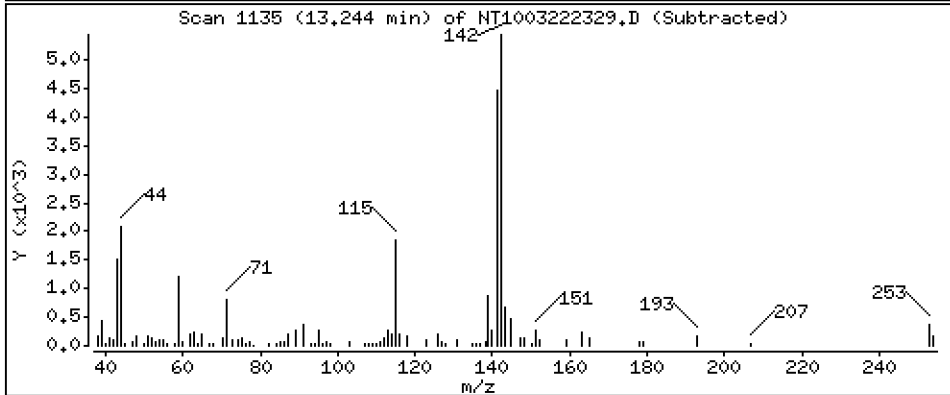
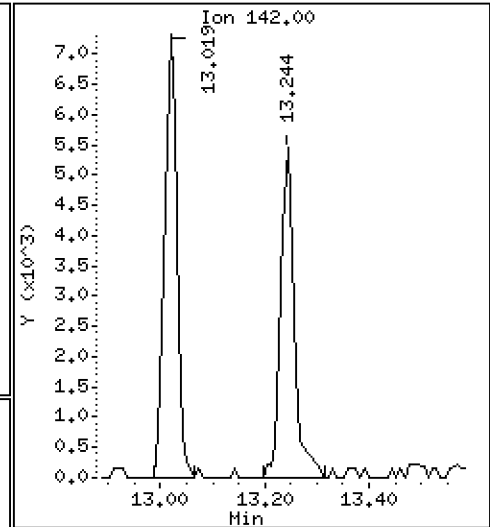
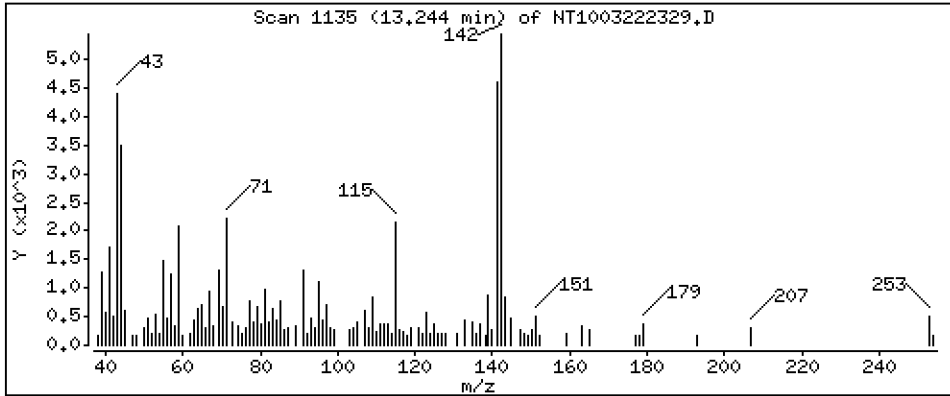
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 0,1023 ug/mL



Date : 23-MAR-2023 10:49

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-01RE1

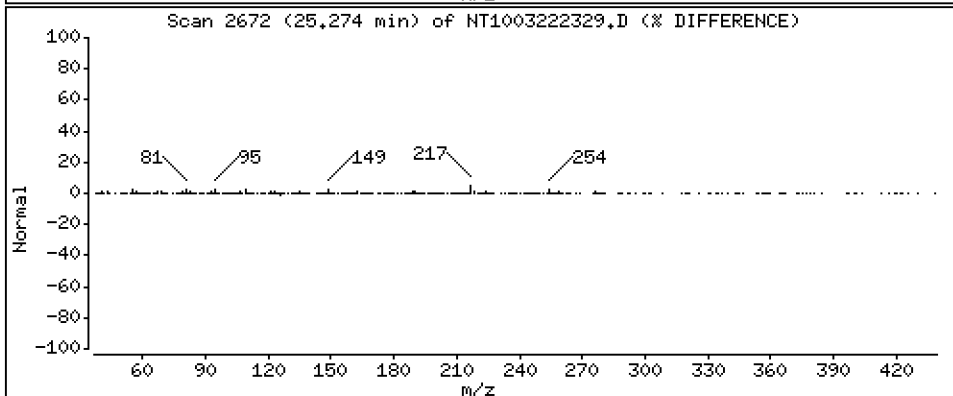
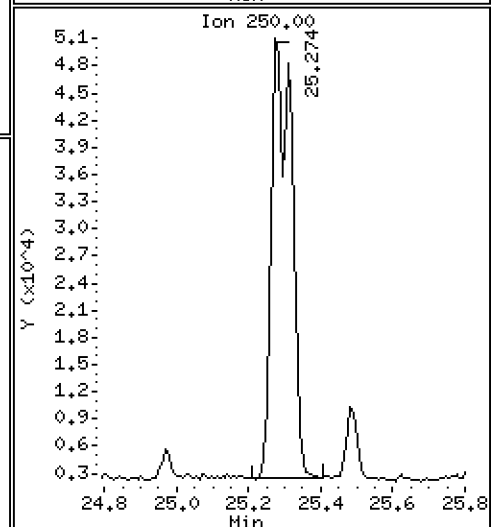
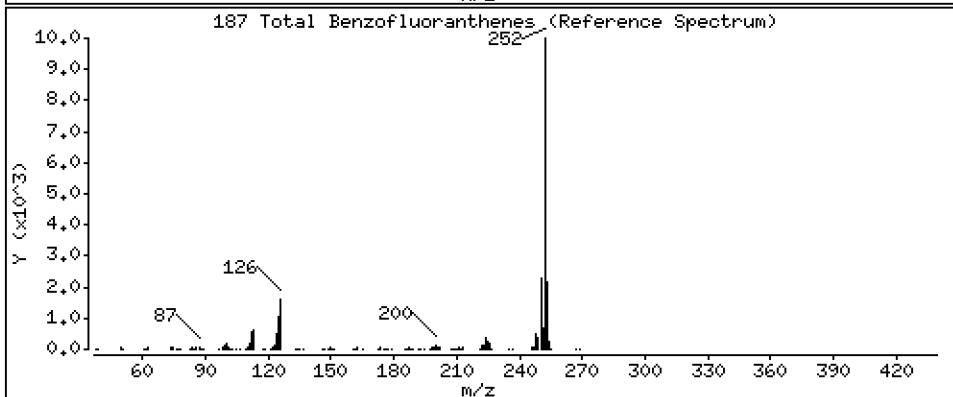
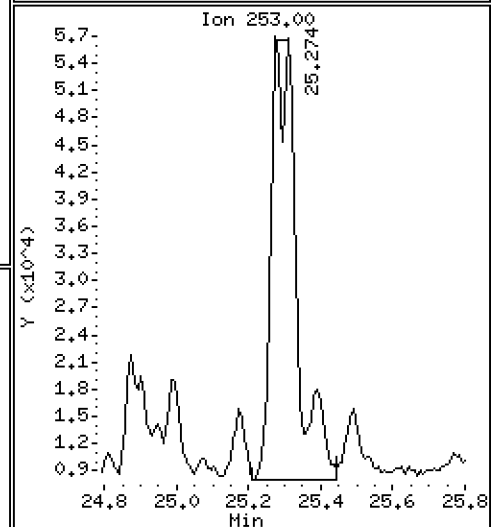
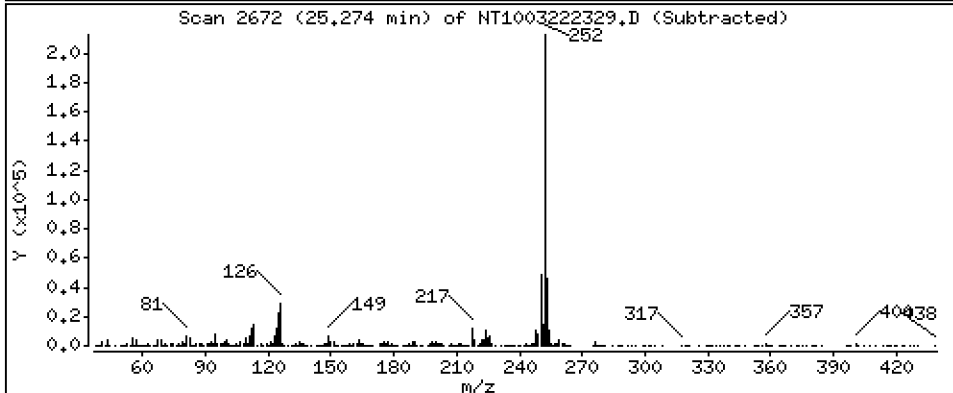
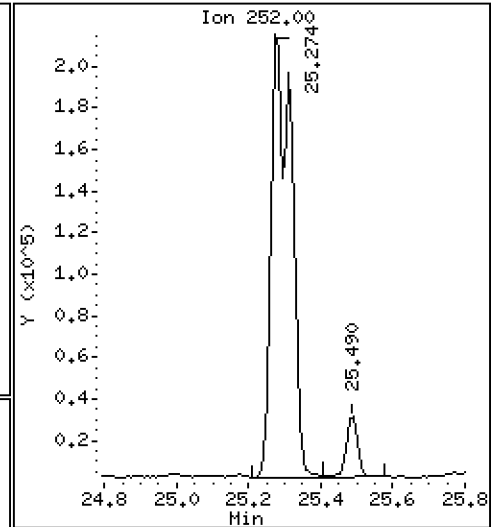
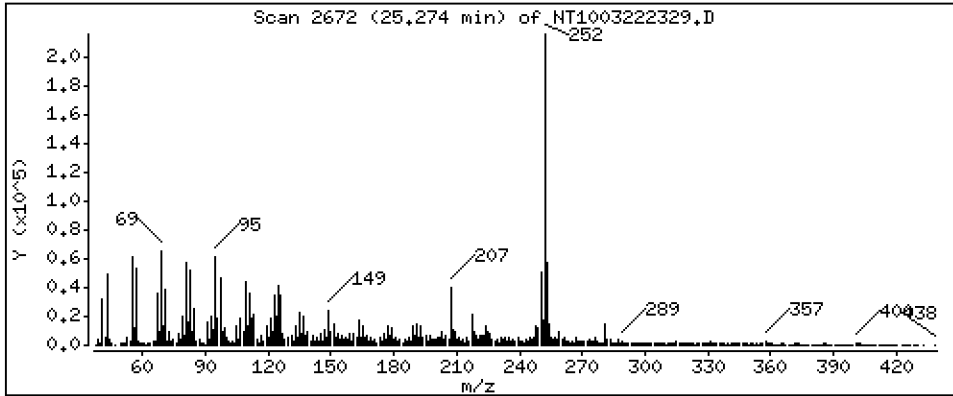
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 4,752 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230322.b\NT1003222329.D
 Lab Smp Id: 23A0180-01RE1
 Inj Date : 23-MAR-2023 10:49
 Operator : VTS
 Smp Info : 23A0180-01RE1
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt10.i\20230322.b\ABN.m
 Meth Date : 25-Mar-2023 10:11 van
 Cal Date : 16-MAR-2023 00:22
 Als bottle: 24
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: VANS-201906

Inst ID: nt10.i

Quant Type: ISTD
 Cal File: NT10031508.D

Compound Sublist: ICAL.sub

| Compounds | QUANT | SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|---------------------------------|-------|-----|------------------------|--------|---------|----------|----------------|------------|
| | | | | | | | ON-COLUMN | FINAL |
| | MASS | | | | | | (ug/mL) | (ug/mL) |
| \$ 1 2-Fluorophenol | 112 | | 6.867 | 6.851 | (0.755) | 245167 | 5.58130 | 5.581 |
| \$ 2 Phenol-d5 | 99 | | 8.458 | 8.450 | (0.930) | 331696 | 5.75611 | 5.756 |
| 3 Phenol | 94 | | 8.482 | 8.474 | (0.933) | 72091 | 1.20390 | 1.204 |
| \$ 5 2-Chlorophenol-d4 | 132 | | 8.729 | 8.721 | (0.960) | 305906 | 6.21663 | 6.217 |
| 4 Bis(2-Chloroethyl)ether | 93 | | Compound Not Detected. | | | | | |
| 6 2-Chlorophenol | 128 | | Compound Not Detected. | | | | | |
| 7 1,3-Dichlorobenzene | 146 | | Compound Not Detected. | | | | | |
| * 8 1,4-Dichlorobenzene-d4 | 152 | | 9.092 | 9.085 | (1.000) | 145254 | 4.00000 | |
| 9 1,4-Dichlorobenzene | 146 | | Compound Not Detected. | | | | | |
| \$ 10 1,2-Dichlorobenzene-d4 | 152 | | 9.449 | 9.441 | (1.039) | 133870 | 3.78820 | 3.788 |
| 12 1,2-Dichlorobenzene | 146 | | Compound Not Detected. | | | | | |
| 11 Benzyl alcohol | 108 | | 9.364 | 9.356 | (1.030) | 2397 | 0.08528 | 0.08528 |
| 14 2,2'-oxybis(1-Chloropropane) | 121 | | Compound Not Detected. | | | | | |
| 13 2-Methylphenol | 108 | | Compound Not Detected. | | | | | |
| 17 Hexachloroethane | 117 | | Compound Not Detected. | | | | | |
| 16 N-Nitroso-di-n-propylamine | 70 | | Compound Not Detected. | | | | | |
| 15 4-Methylphenol | 108 | | 9.876 | 9.861 | (1.086) | 5185 | 0.11273 | 0.1127 |
| \$ 18 Nitrobenzene-d5 | 82 | | 10.187 | 10.179 | (0.880) | 210924 | 3.92640 | 3.926 |
| 19 Nitrobenzene | 77 | | Compound Not Detected. | | | | | |
| 20 Isophorone | 82 | | 10.761 | 10.668 | (0.929) | 69 | 0.00102 | 0.001023 |
| 21 2-Nitrophenol | 139 | | Compound Not Detected. | | | | | |
| 22 2,4-Dimethylphenol | 107 | | Compound Not Detected. | | | | | |
| 23 Bis(2-Chloroethoxy)methane | 93 | | Compound Not Detected. | | | | | |
| 24 Benzoic acid | 105 | | 11.020 | 11.105 | (0.952) | 6691 | 0.24878 | 0.2488 (M) |
| 25 2,4-Dichlorophenol | 162 | | Compound Not Detected. | | | | | |
| 26 1,2,4-Trichlorobenzene | 180 | | Compound Not Detected. | | | | | |
| * 27 Naphthalene-d8 | 136 | | 11.580 | 11.572 | (1.000) | 532212 | 4.00000 | |
| 28 Naphthalene | 128 | | 11.619 | 11.618 | (1.003) | 15744 | 0.11167 | 0.1117 |
| 29 4-Chloroaniline | 127 | | Compound Not Detected. | | | | | |
| 30 Hexachlorobutadiene | 225 | | Compound Not Detected. | | | | | |
| 31 4-Chloro-3-methylphenol | 107 | | Compound Not Detected. | | | | | |
| 32 2-Methylnaphthalene | 142 | | 13.019 | 13.018 | (1.124) | 11880 | 0.11676 | 0.1168 |
| 33 Hexachlorocyclopentadiene | 237 | | Compound Not Detected. | | | | | |

| Compounds | QUANT | SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|-----------------------------------|-------|-----|--------|--------|---------|----------|----------------------|------------------|
| | | | | | | | ON-COLUMN (ug/mL) | FINAL (ug/mL) |
| 34 2,4,6-Trichlorophenol | 196 | | | | | | | |
| 35 2,4,5-Trichlorophenol | 196 | | | | | | | |
| \$ 36 2-Fluorobiphenyl | 172 | | 13.808 | 13.800 | (0.908) | 498511 | 4.23513 | 4.235 |
| 37 2-Chloronaphthalene | 162 | | | | | | | |
| 38 2-Nitroaniline | 65 | | | | | | | |
| 39 Dimethylphthalate | 163 | | 14.714 | 14.706 | (0.967) | 12160 | 0.12579 | 0.1258 |
| 40 Acenaphthylene | 152 | | 14.892 | 14.884 | (0.979) | 18566 | 0.12501 | 0.1250 |
| 41 2,6-Dinitrotoluene | 165 | | | | | | | |
| * 42 Acenaphthene-d10 | 164 | | 15.209 | 15.201 | (1.000) | 297565 | 4.00000 | |
| 43 3-Nitroaniline | 138 | | | | | | | |
| 44 Acenaphthene | 153 | | 15.271 | 15.263 | (1.004) | 7658 | 0.08347 | 0.08347 |
| 45 2,4-Dinitrophenol | 184 | | | | | | | |
| 46 Dibenzofuran | 168 | | 15.603 | 15.595 | (1.026) | 12559 | 0.09282 | 0.09282 |
| 47 4-Nitrophenol | 109 | | | | | | | |
| 48 2,4-Dinitrotoluene | 165 | | | | | | | |
| 50 Diethylphthalate | 149 | | 16.175 | 16.175 | (1.064) | 15034 | 0.15851 | 0.1585 |
| 49 Fluorene | 166 | | 16.322 | 16.314 | (1.073) | 10262 | 0.09641 | 0.09641 |
| 51 4-Chlorophenyl-phenylether | 204 | | | | | | | |
| 52 4-Nitroaniline | 138 | | | | | | | |
| 53 4,6-Dinitro-2-methylphenol | 198 | | | | | | | |
| 54 N-Nitrosodiphenylamine | 169 | | | | | | | |
| \$ 55 2,4,6-Tribromophenol | 330 | | 16.862 | 16.846 | (1.109) | 119929 | 8.66451 | 8.665 |
| 56 4-Bromophenyl-phenylether | 248 | | | | | | | |
| 57 Hexachlorobenzene | 284 | | | | | | | |
| 58 Pentachlorophenol | 266 | | | | | | | |
| * 59 Phenanthrene-d10 | 188 | | 18.268 | 18.260 | (1.000) | 574478 | 4.00000 | |
| 60 Phenanthrene | 178 | | 18.315 | 18.307 | (1.003) | 142104 | 0.90716 | 0.9072 |
| 61 Anthracene | 178 | | 18.408 | 18.400 | (1.008) | 52913 | 0.35213 | 0.3521 |
| 62 Carbazole | 167 | | 18.748 | 18.732 | (1.026) | 25277 | 0.18772 | 0.1877 |
| 63 Di-n-butylphthalate | 149 | | 19.560 | 19.545 | (1.071) | 18860 | 0.10417 | 0.1042 |
| 64 Fluoranthene | 202 | | 20.767 | 20.713 | (0.889) | 413592 | 1.97764 | 1.978 |
| 65 Pyrene | 202 | | 21.170 | 21.139 | (0.906) | 856931 | 3.99438 | 3.994 |
| \$ 66 Terphenyl-d14 | 244 | | 21.448 | 21.433 | (0.918) | 655837 | 4.07072 | 4.071 |
| 67 Butylbenzylphthalate | 149 | | 22.385 | 22.377 | (0.958) | 20577 | 0.27298 | 0.2730 |
| 68 Benzo(a)anthracene | 228 | | 23.338 | 23.322 | (0.999) | 206644 | 1.12484 | 1.125 |
| * 69 Chrysene-d12 | 240 | | 23.369 | 23.353 | (1.000) | 520470 | 4.00000 | |
| 70 3,3'-Dichlorobenzidine | 252 | | | | | | | |
| 71 Chrysene | 228 | | 23.415 | 23.399 | (1.002) | 306499 | 1.70769 | 1.708 |
| 72 bis(2-Ethylhexyl)phthalate | 149 | | 23.431 | 23.415 | (0.959) | 202599 | 1.64944 | 1.649 |
| * 134 Di-n-octylphthalate-d4 | 153 | | 24.437 | 24.421 | (1.000) | 839017 | 4.00000 | |
| 73 Di-n-octylphthalate | 149 | | | | | | | |
| 74 Benzo(b)fluoranthene | 252 | | 25.273 | 25.250 | (0.969) | 480172 | 2.65310 | 2.653 |
| 75 Benzo(k)fluoranthene | 252 | | 25.312 | 25.296 | (0.971) | 409661 | 2.22914 | 2.229 |
| 76 Benzo(a)pyrene | 252 | | 25.947 | 25.923 | (0.995) | 305326 | 1.88693 | 1.887 |
| * 77 Perylene-d12 | 264 | | 26.071 | 26.040 | (1.000) | 558336 | 4.00000 | |
| 78 Indeno(1,2,3-cd)pyrene | 276 | | 28.832 | 28.793 | (1.106) | 205468 | 0.99808 | 0.9981 |
| 79 Dibenzo(a,h)anthracene | 278 | | 28.840 | 28.816 | (1.106) | 65034 | 0.38051 | 0.3805 |
| 80 Benzo(g,h,i)perylene | 276 | | 29.647 | 29.601 | (1.137) | 185199 | 1.03953 | 1.040 |
| 90 N-Nitrosodimethylamine | 74 | | | | | | | |
| 91 Aniline | 93 | | | | | | | |
| 93 Benzidine | 184 | | | | | | | |
| 103 Pyridine | 79 | | | | | | | |
| 105 1-methylnaphthalene | 142 | | 13.243 | 13.235 | (1.144) | 9534 | 0.10227 | 0.1023 |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77 | | | | | | | |

| Compounds | QUANT MASS | SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | | |
|-------------------------------|---------------|-----|------------------------|--------|---------|----------|----------------------|------------------|--|
| | | | | | | | ON-COLUMN (ug/mL) | FINAL (ug/mL) | |
| 187 Total Benzofluoranthenes | 252 | | 25.273 | 25.296 | (0.969) | 830322 | 4.75161 | 4.752 | |
| 120 2,3,4,6-Tetrachlorophenol | 232 | | Compound Not Detected. | | | | | | |

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 23-MAR-2023
 Lab File ID: NT1003222329.D Calibration Time: 03:15
 Lab Smp Id: 23A0180-01RE1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt10.i\20230322.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 137603 | 68802 | 275206 | 145254 | 5.56 |
| 27 Naphthalene-d8 | 494588 | 247294 | 989176 | 532212 | 7.61 |
| 42 Acenaphthene-d10 | 278674 | 139337 | 557348 | 297565 | 6.78 |
| 59 Phenanthrene-d10 | 509229 | 254615 | 1018458 | 574478 | 12.81 |
| 69 Chrysene-d12 | 462271 | 231136 | 924542 | 520470 | 12.59 |
| 134 Di-n-octylphthala | 782572 | 391286 | 1565144 | 839017 | 7.21 |
| 77 Perylene-d12 | 551153 | 275577 | 1102306 | 558336 | 1.30 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 9.09 | 8.59 | 9.59 | 9.09 | 0.09 |
| 27 Naphthalene-d8 | 11.57 | 11.07 | 12.07 | 11.58 | 0.07 |
| 42 Acenaphthene-d10 | 15.20 | 14.70 | 15.70 | 15.21 | 0.05 |
| 59 Phenanthrene-d10 | 18.26 | 17.76 | 18.76 | 18.27 | 0.04 |
| 69 Chrysene-d12 | 23.35 | 22.85 | 23.85 | 23.37 | 0.07 |
| 134 Di-n-octylphthala | 24.42 | 23.92 | 24.92 | 24.44 | 0.06 |
| 77 Perylene-d12 | 26.04 | 25.54 | 26.54 | 26.07 | 0.12 |

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

REVIEW SUMMARY FOR FILE - NT1003222329.D

Lab ID: 23A0180-01RE1
nt10.i, 20230322.b\ABN.m, 23-MAR-2023 10:49

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT | CCV RRT | DELTA | COMPOUND |
|-------|---------|---------|--------------|
| 0.929 | 0.922 | 0.0074 | Isophorone |
| 0.952 | 0.960 | -0.0080 | Benzoic acid |

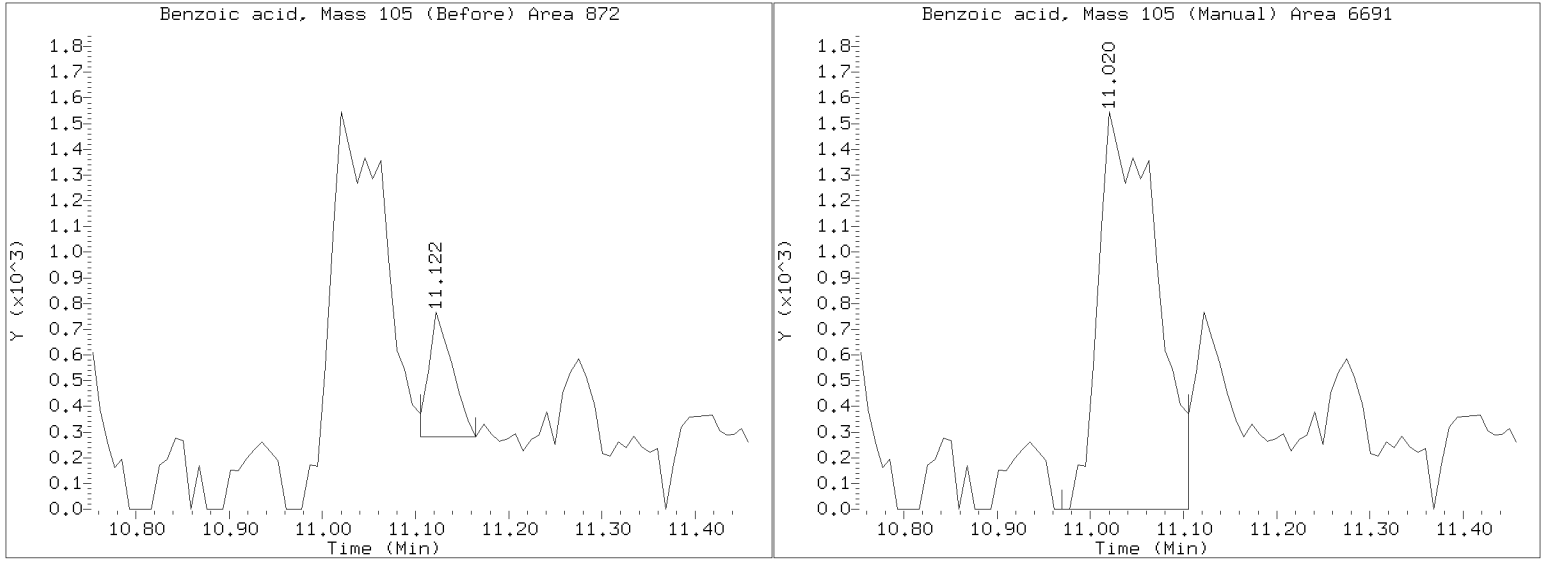
RRT check based on Ccal File: NT1003222317.D

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

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230322.b/NT1003222329.D
Injection Date: 23-MAR-2023 10:49
Lab ID: 23A0180-01RE1 Client ID:
Report Date: 03/25/2023 10:17





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

Laboratory: Analytical Resources, LLC

Client: Anchor OEA, LLC

Project: AOC5 MR Phase 1

Matrix: Sediment

Laboratory ID: 23A0180-02RE1 A

SDG: 23A0180

Sampled: 01/10/23 08:05

Prepared: 03/17/23 11:16

File ID: NT1003222330.D

% Solids: 53.01

Preparation: EPA 3546 (Microwave)

Analyzed: 03/23/23 11:27

Batch: BLC0442

Sequence: SLC0397

Initial/Final: 18.93 g Wet / 1 mL

Instrument: NT10

Column: ZB-5MSi

Calibration: GC00046

Cleanups: GPC

| CAS NO. | COMPOUND | DILUTION | CONC: (ug/kg dry) | Q | DL | RL |
|----------|-----------------------------|----------|----------------------|---|------|------|
| 108-95-2 | Phenol | 1 | 91.1 | | 4.4 | 19.9 |
| 106-44-5 | 4-Methylphenol | 1 | 9.0 | J | 7.4 | 19.9 |
| 91-20-3 | Naphthalene | 1 | 10.7 | J | 4.2 | 19.9 |
| 91-57-6 | 2-Methylnaphthalene | 1 | 11.1 | J | 4.5 | 19.9 |
| 208-96-8 | Acenaphthylene | 1 | 12.0 | J | 6.2 | 19.9 |
| 131-11-3 | Dimethylphthalate | 1 | 13.5 | J | 4.4 | 19.9 |
| 83-32-9 | Acenaphthene | 1 | 8.0 | J | 5.2 | 19.9 |
| 132-64-9 | Dibenzofuran | 1 | 19.9 | U | 14.1 | 19.9 |
| 86-73-7 | Fluorene | 1 | 19.9 | U | 14.5 | 19.9 |
| 85-01-8 | Phenanthrene | 1 | 85.9 | | 8.7 | 19.9 |
| 120-12-7 | Anthracene | 1 | 38.4 | | 7.2 | 19.9 |
| 206-44-0 | Fluoranthene | 1 | 156 | | 6.1 | 19.9 |
| 129-00-0 | Pyrene | 1 | 346 | | 5.7 | 19.9 |
| 85-68-7 | Butylbenzylphthalate | 1 | 19.5 | J | 9.4 | 19.9 |
| 56-55-3 | Benzo(a)anthracene | 1 | 109 | | 5.9 | 19.9 |
| 218-01-9 | Chrysene | 1 | 162 | | 6.0 | 19.9 |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 1 | 154 | | 5.4 | 49.8 |
| | Benzo(a)fluoranthene, Total | 1 | 439 | | 10.0 | 39.9 |
| 50-32-8 | Benzo(a)pyrene | 1 | 181 | | 4.2 | 19.9 |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 1 | 89.6 | | 14.6 | 19.9 |
| 53-70-3 | Dibenzo(a,h)anthracene | 1 | 27.1 | | 17.2 | 19.9 |
| 191-24-2 | Benzo(g,h,i)perylene | 1 | 93.9 | | 13.5 | 19.9 |

| SURROGATES | ADDED: (ug/kg dry) | FOUND: (ug/kg dry) | % REC | QC LIMITS | Q |
|------------------------|-----------------------|-----------------------|-------|-----------|---|
| 2-Fluorophenol | 747.40 | 562 | 75.1 | 27 - 120 | |
| Phenol-d5 | 747.40 | 577 | 77.2 | 29 - 120 | |
| 2-Chlorophenol-d4 | 747.40 | 616 | 82.4 | 31 - 120 | |
| 1,2-Dichlorobenzene-d4 | 498.27 | 371 | 74.5 | 32 - 120 | |
| Nitrobenzene-d5 | 498.27 | 383 | 77.0 | 30 - 120 | |
| 2-Fluorobiphenyl | 498.27 | 420 | 84.2 | 35 - 120 | |



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

Laboratory: Analytical Resources, LLC

Client: Anchor OEA, LLC

Project: AOC5 MR Phase 1

Matrix: Sediment

Laboratory ID: 23A0180-02RE1 A

SDG: 23A0180

Sampled: 01/10/23 08:05

Prepared: 03/17/23 11:16

File ID: NT1003222330.D

% Solids: 53.01

Preparation: EPA 3546 (Microwave)

Analyzed: 03/23/23 11:27

Batch: BLC0442

Sequence: SLC0397

Initial/Final: 18.93 g Wet / 1 mL

Instrument: NT10

Column: ZB-5MSi

Calibration: GC00046

Cleanups: GPC

| SURROGATES | ADDED: (ug/kg dry) | FOUND: (ug/kg dry) | % REC | QC LIMITS | Q |
|----------------------|-----------------------|-----------------------|-------|-----------|---|
| 2,4,6-Tribromophenol | 747.40 | 866 | 116 | 24 - 134 | |
| p-Terphenyl-d14 | 498.27 | 399 | 80.1 | 37 - 120 | |

Data File: \\target\share\chem3\nt10.1\20230322.16\NT1003222330.D

Date: 23-MAR-2023 11:27

Client ID:

Sample Info: 23A0180-02RE1

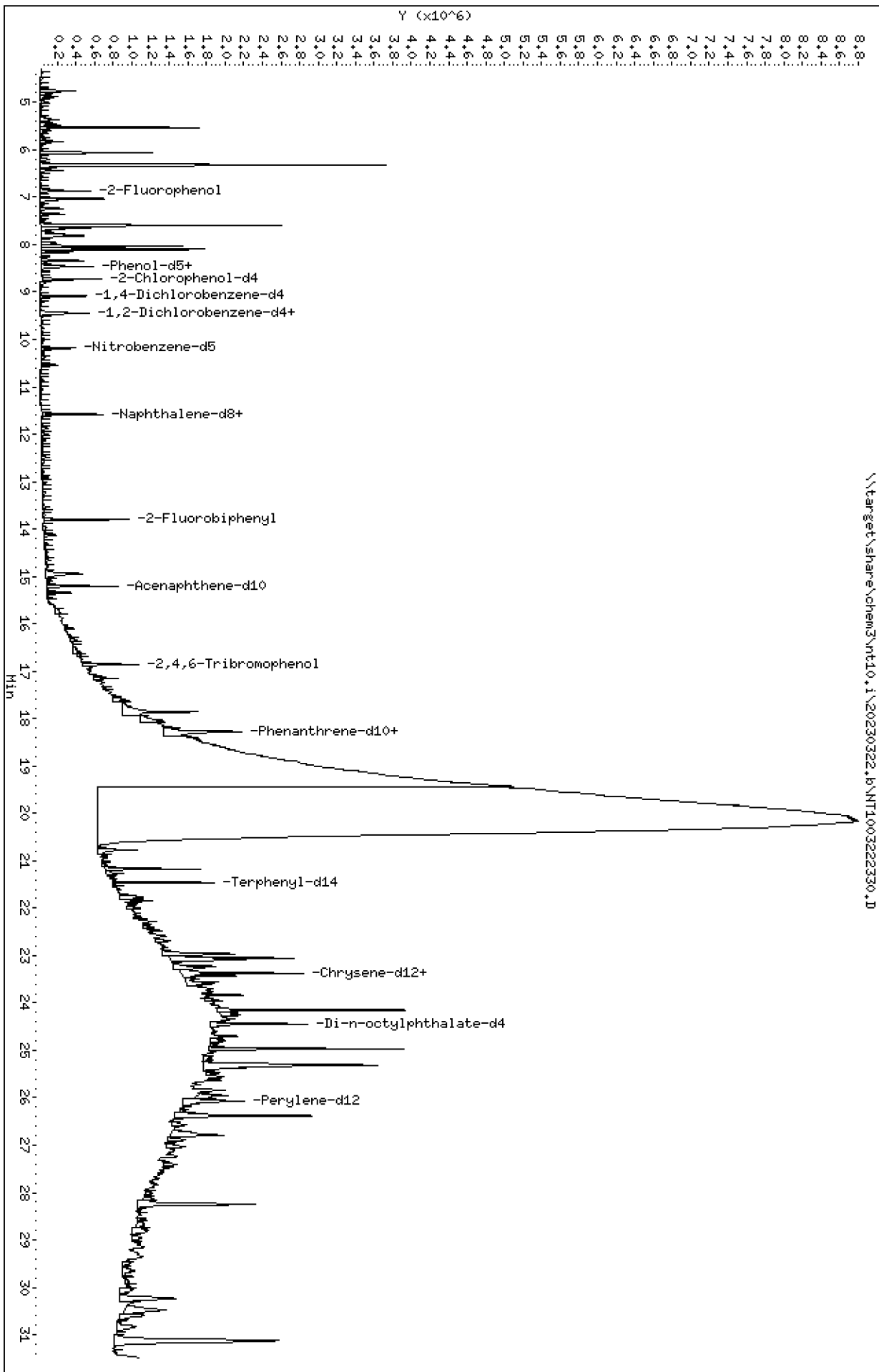
Column phase: ZB-5msi

Instrument: nt10.1

Operator: VTS

Column diameter: 0.25

\\target\share\chem3\nt10.1\20230322.16\NT1003222330.D



Date : 23-MAR-2023 11:27

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-02RE1

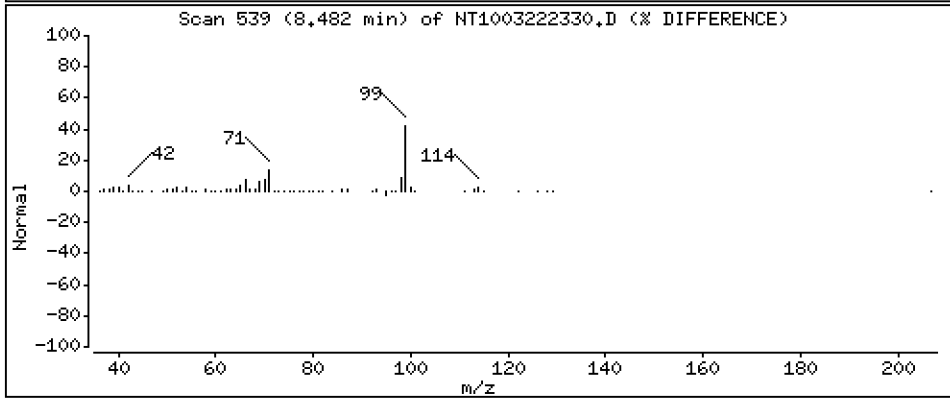
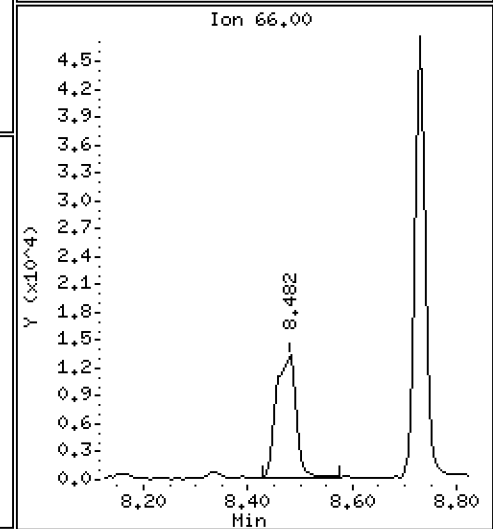
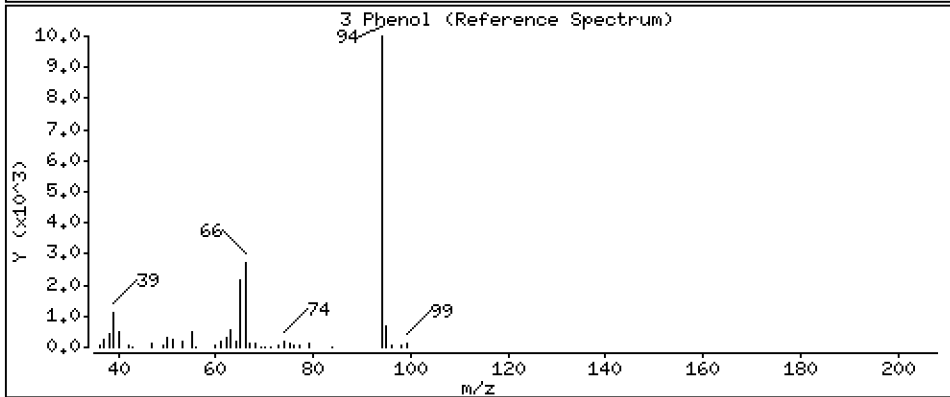
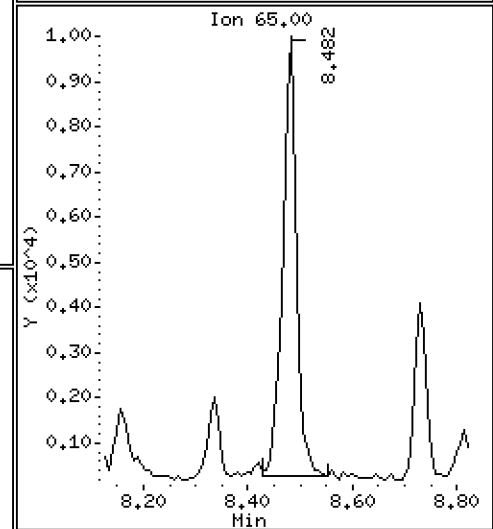
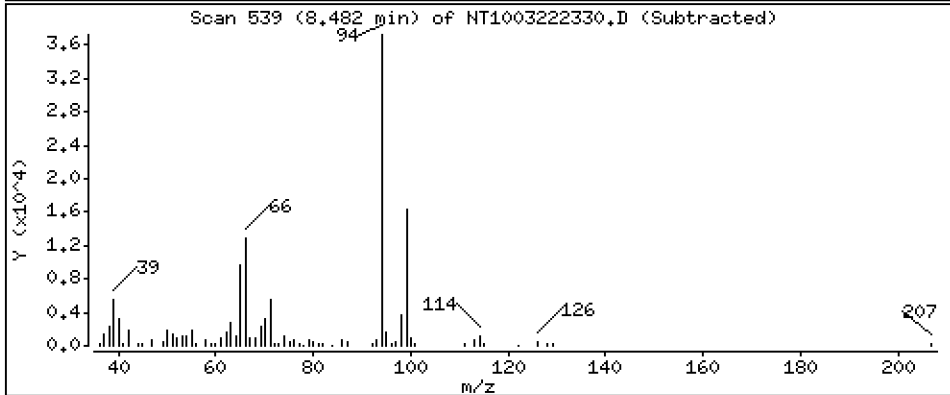
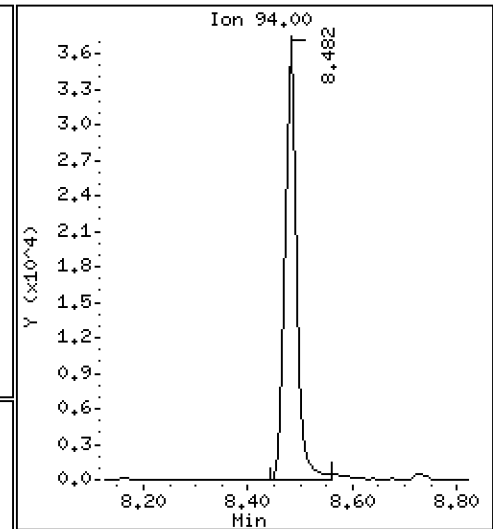
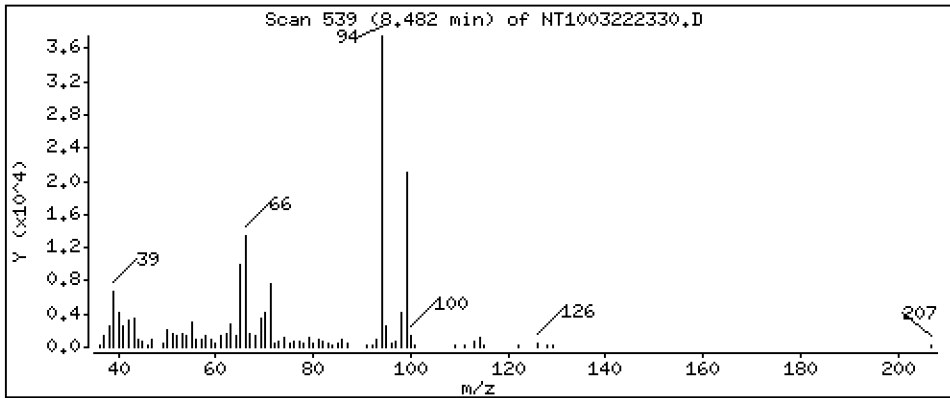
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 0,9139 ug/mL



Date : 23-MAR-2023 11:27

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-02RE1

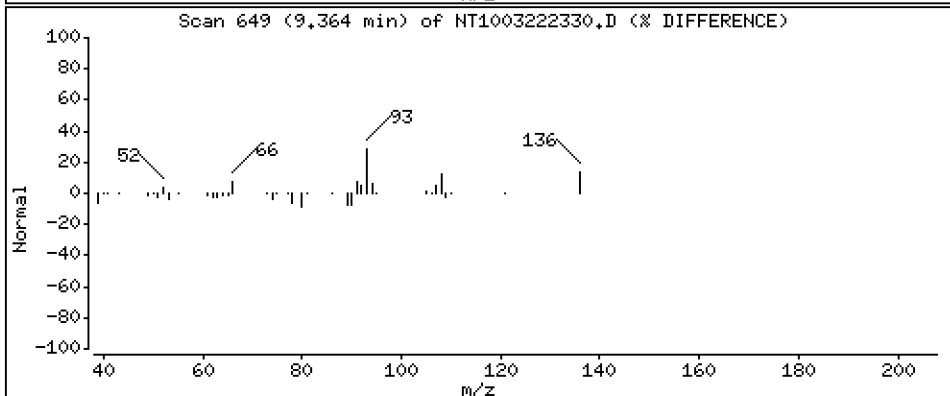
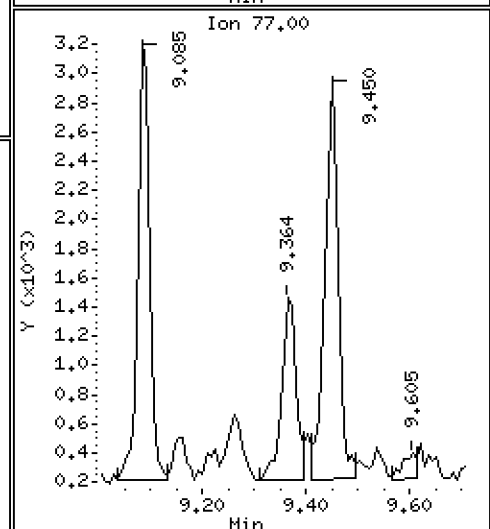
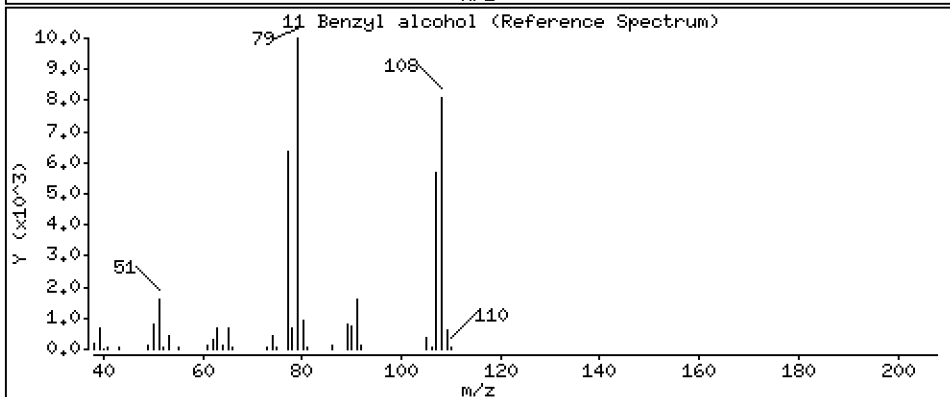
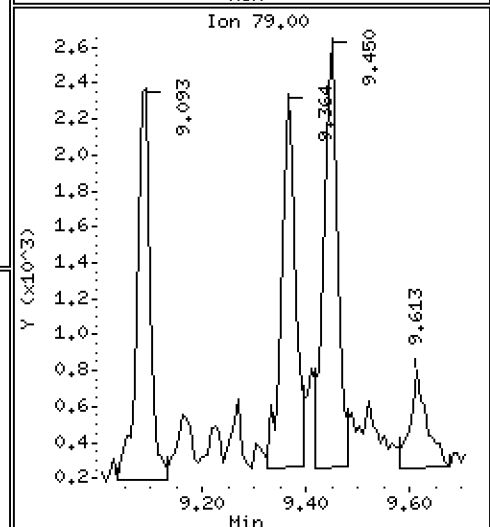
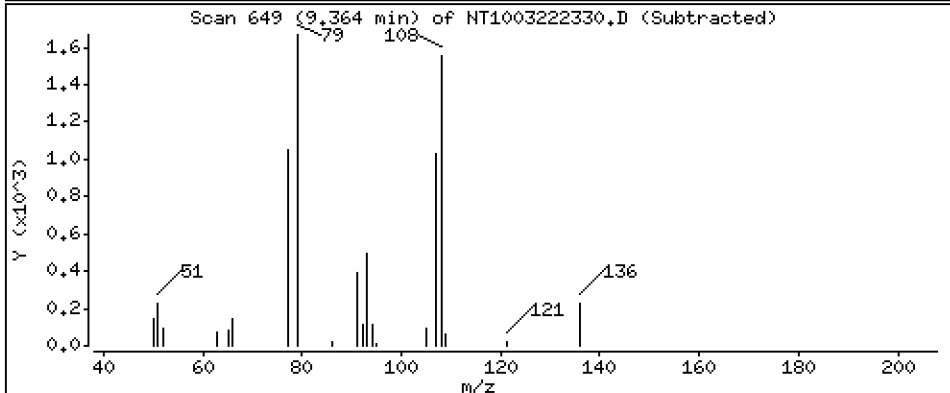
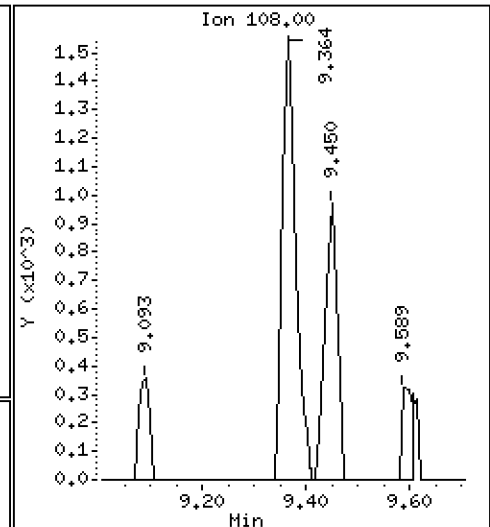
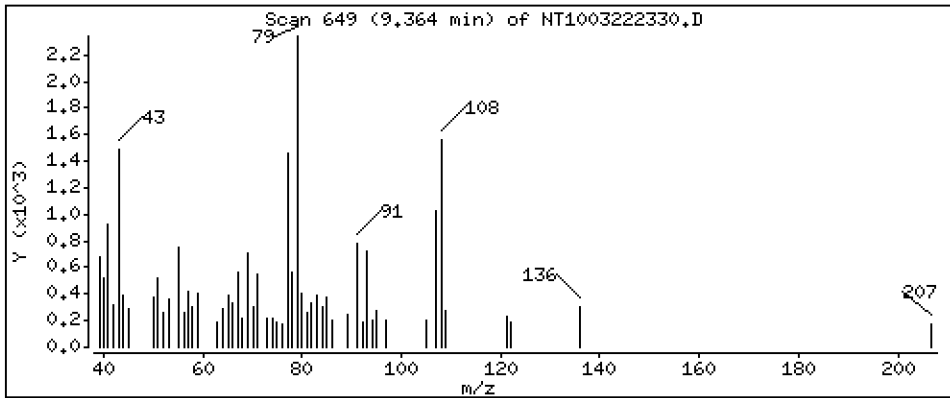
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 0.09423 ug/mL



Date : 23-MAR-2023 11:27

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-02RE1

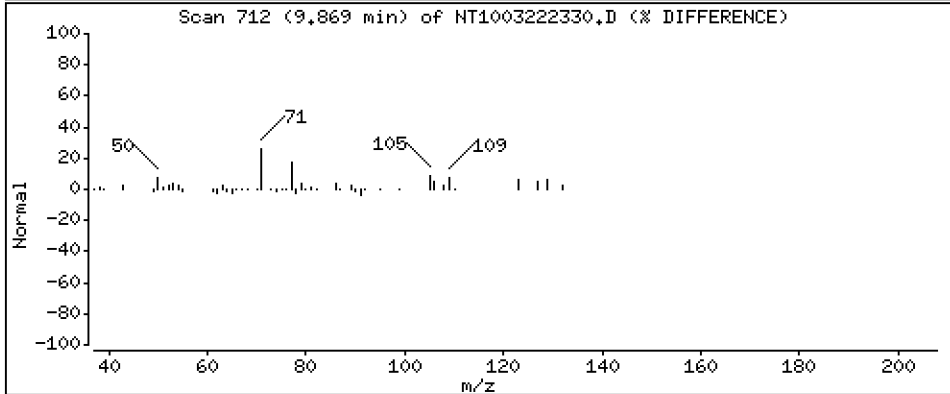
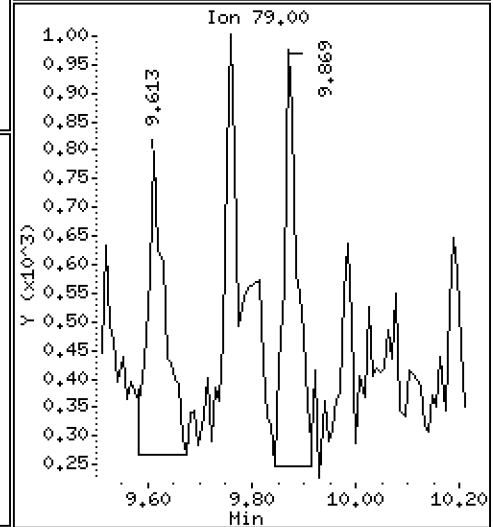
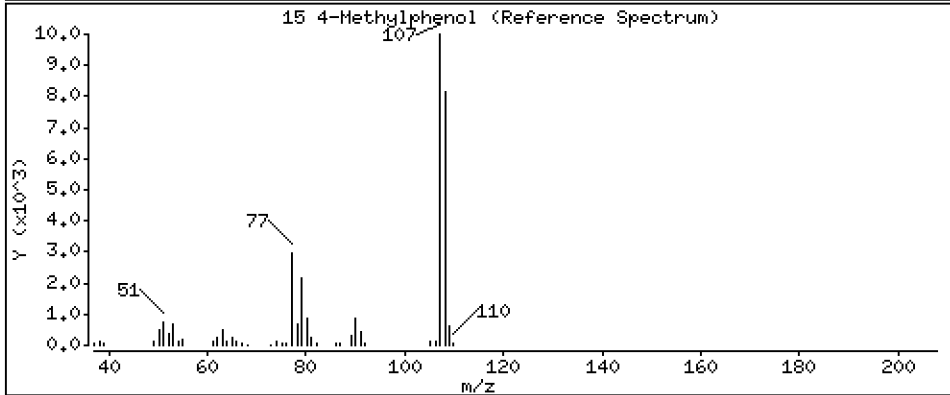
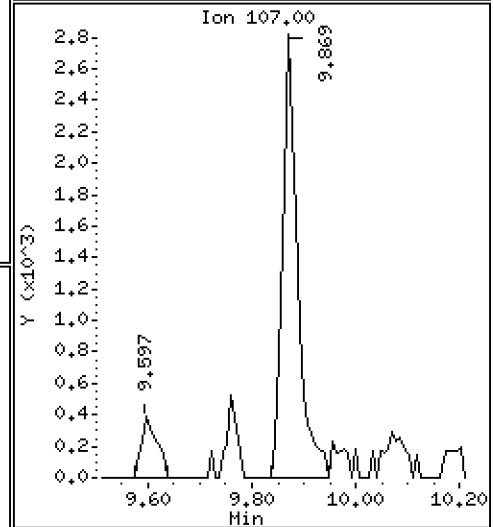
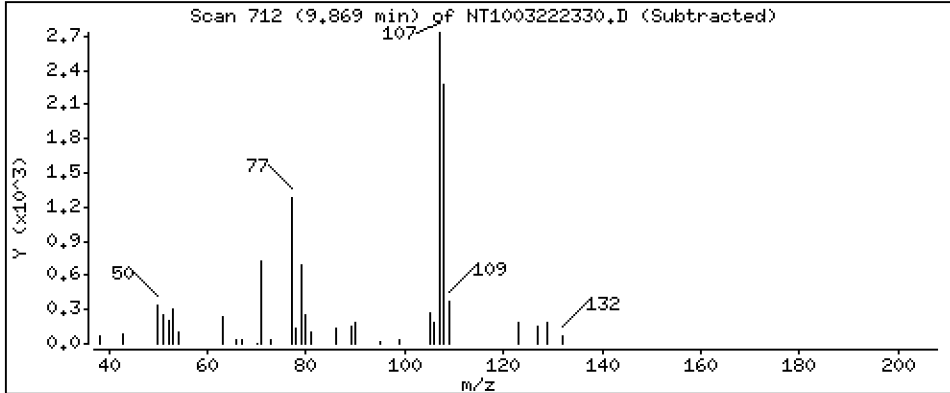
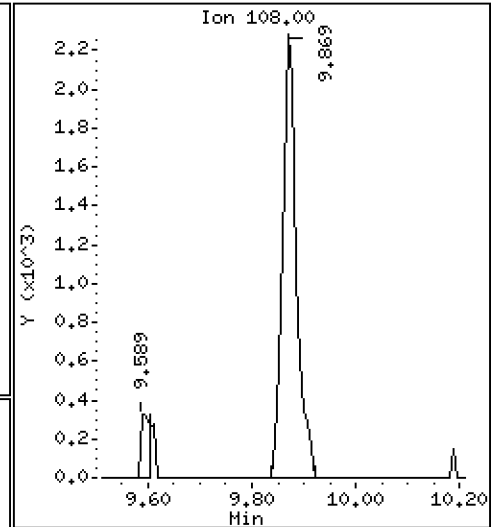
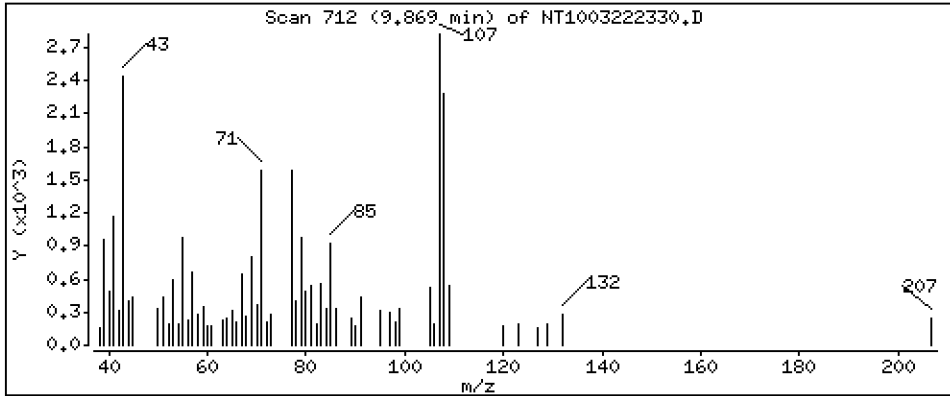
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 0.08996 ug/mL



Date : 23-MAR-2023 11:27

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-02RE1

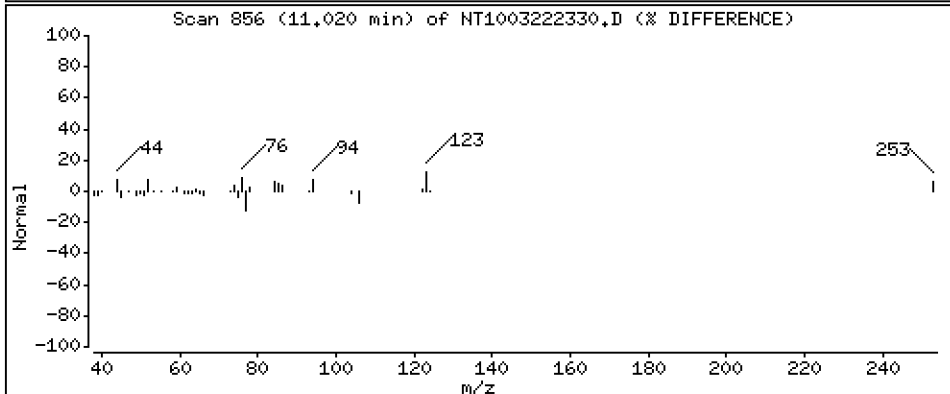
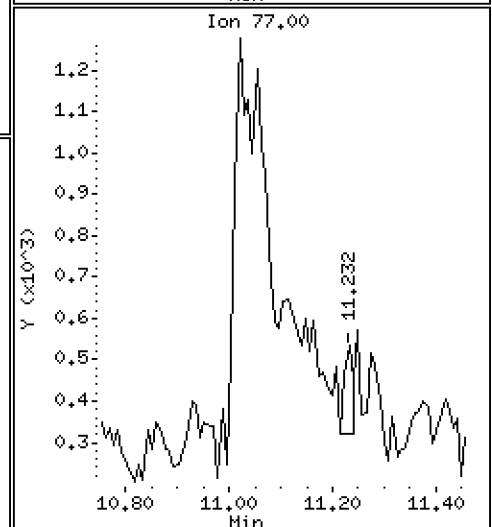
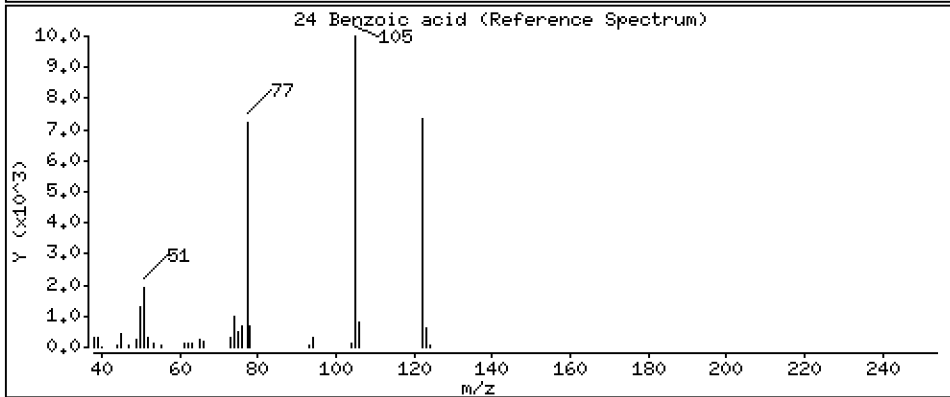
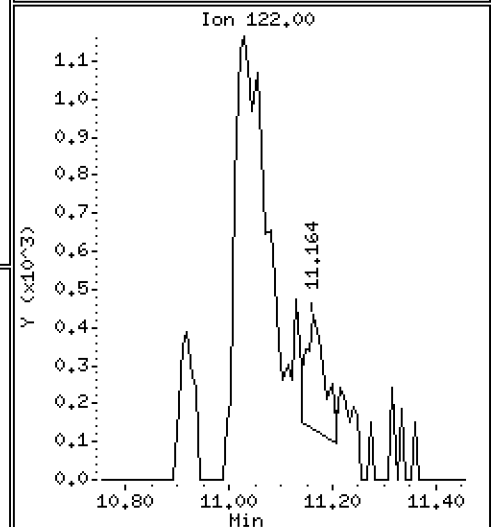
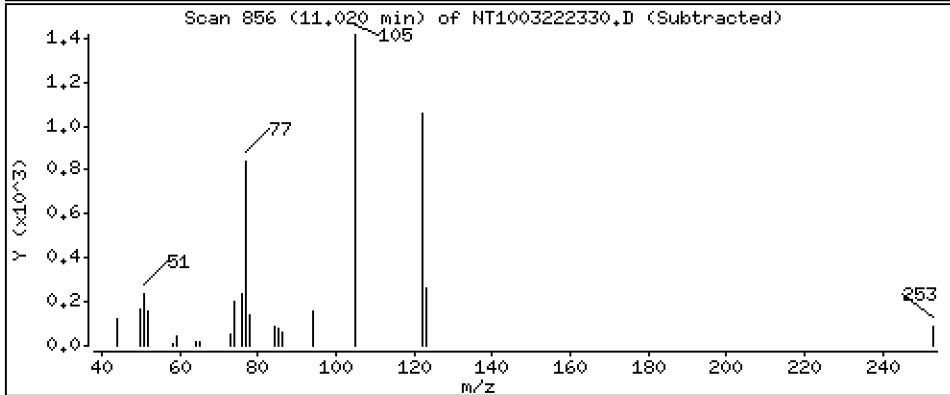
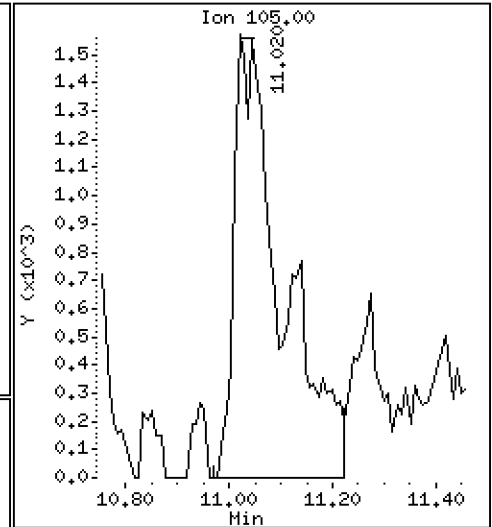
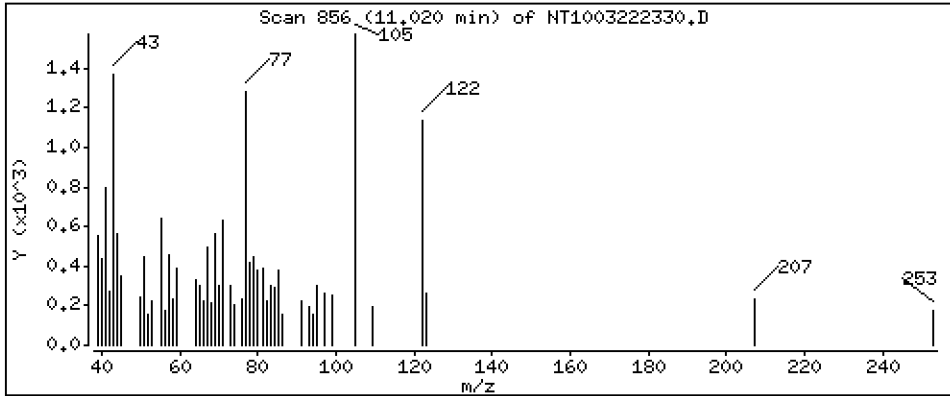
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

24 Benzoic acid

Concentration: 0,3702 ug/mL



Date : 23-MAR-2023 11:27

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-02RE1

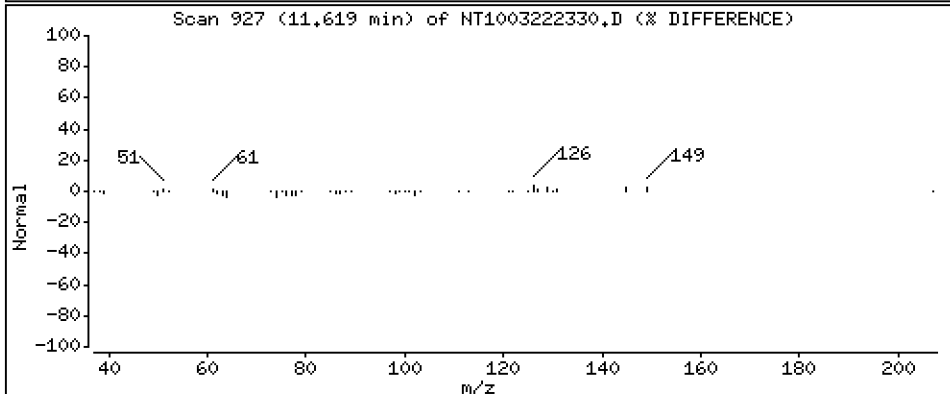
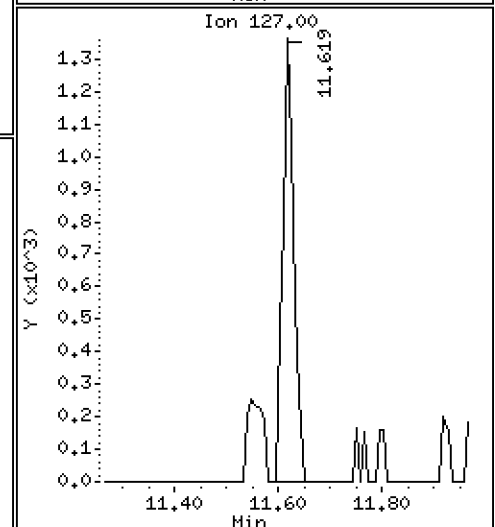
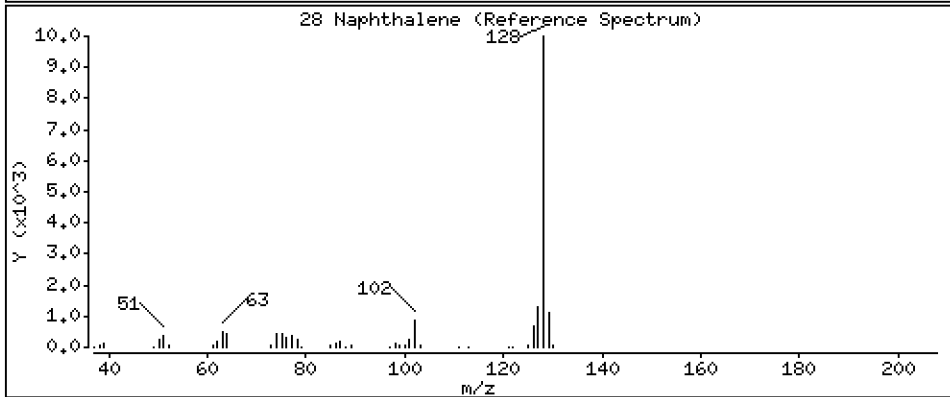
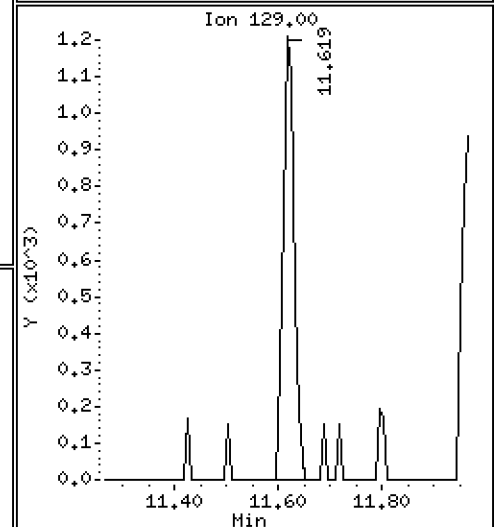
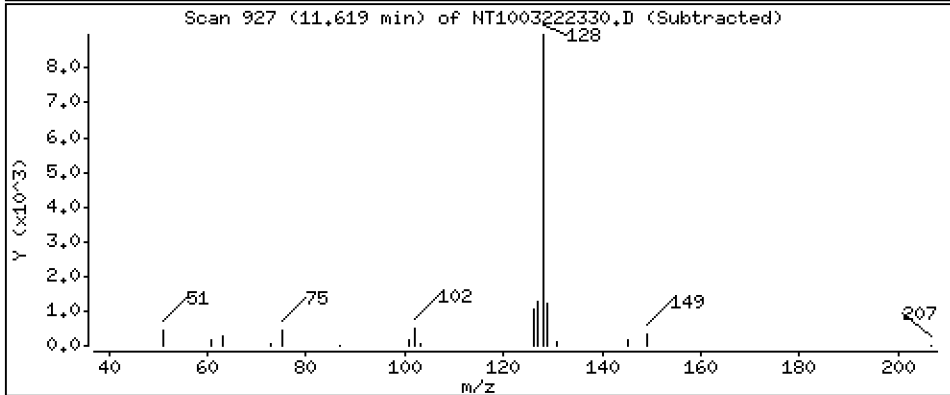
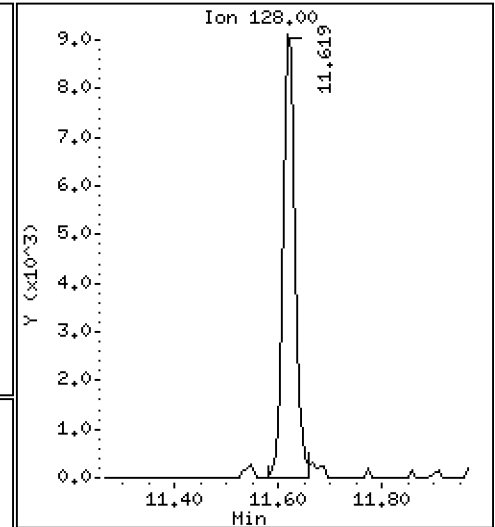
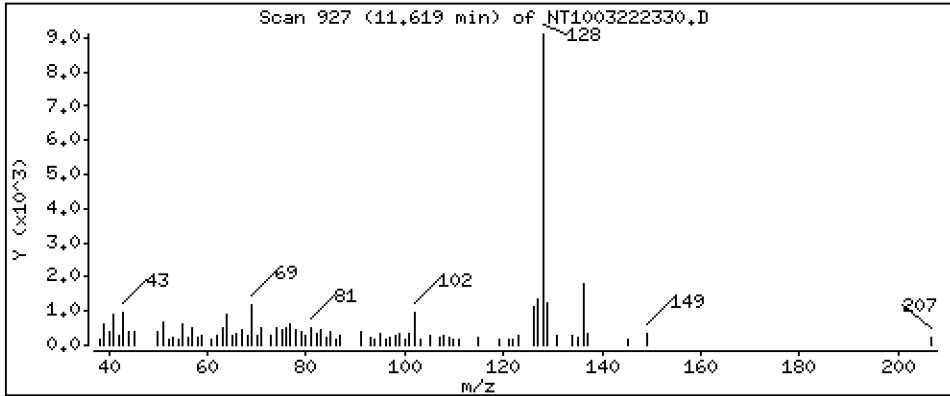
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

28 Naphthalene

Concentration: 0.1078 ug/mL



Date : 23-MAR-2023 11:27

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-02RE1

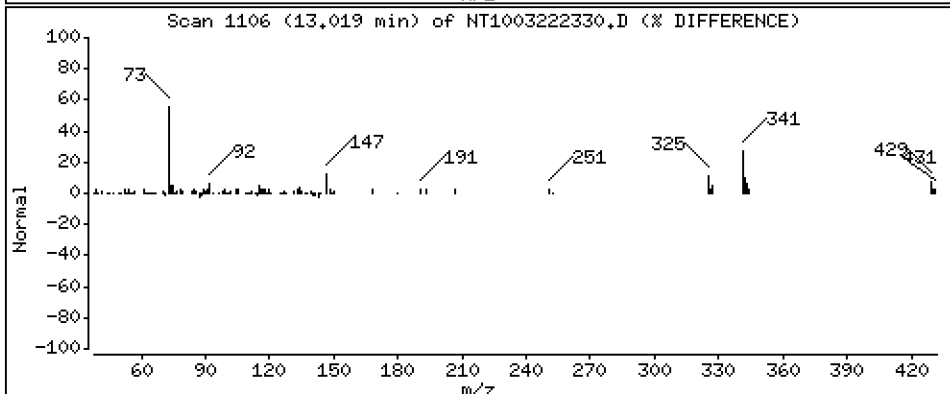
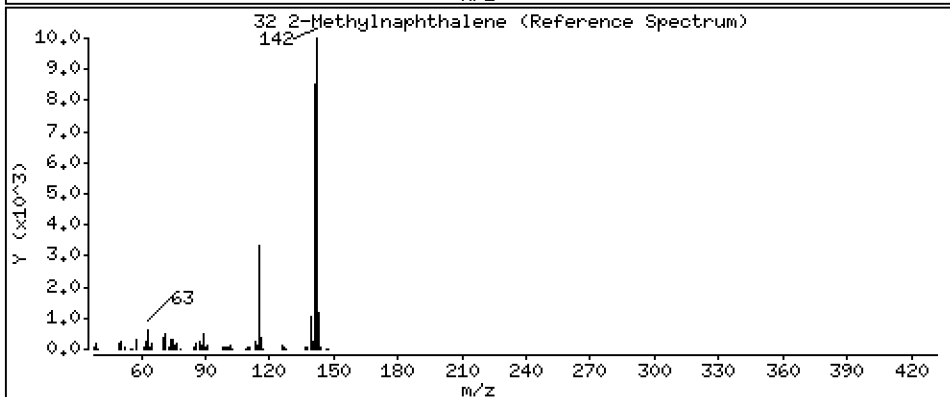
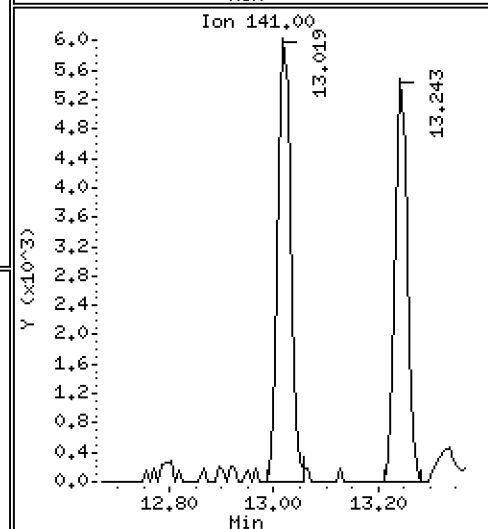
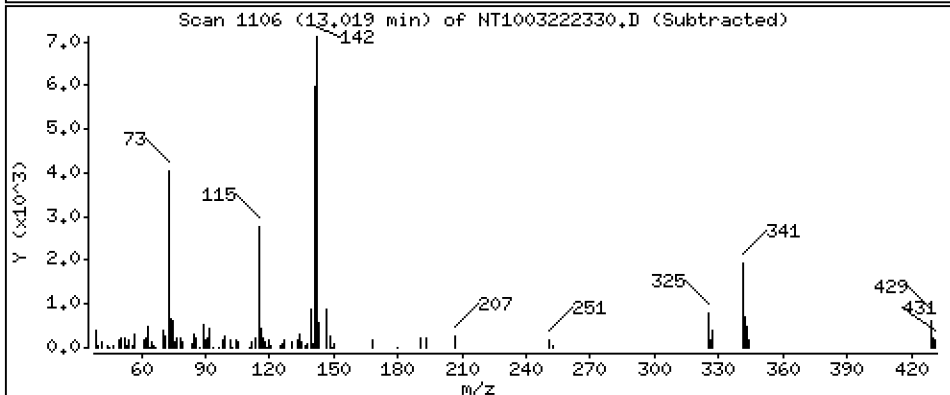
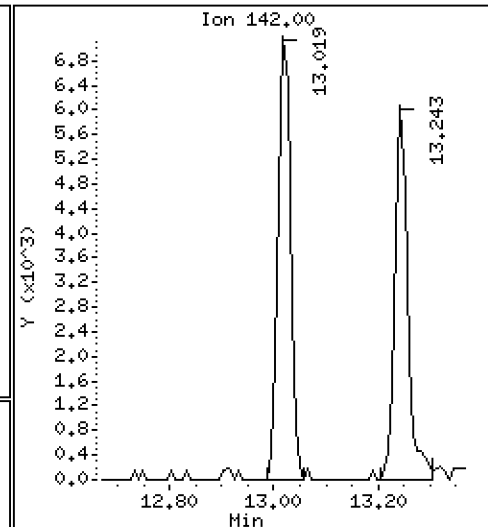
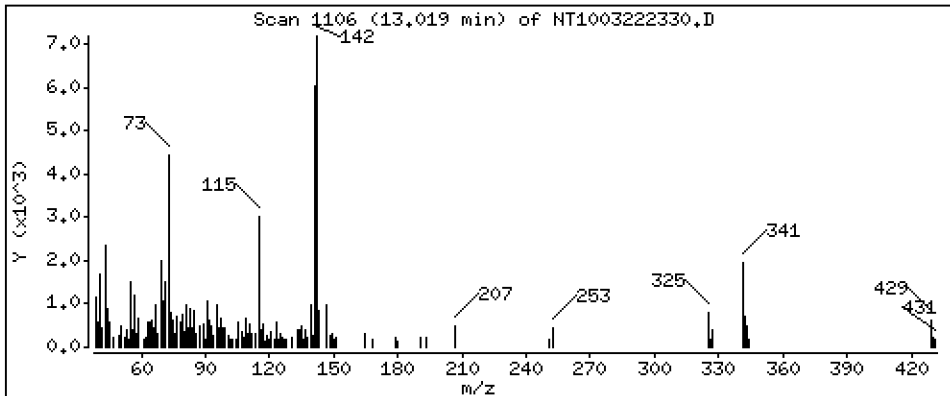
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

32 2-Methylnaphthalene

Concentration: 0.1118 ug/mL



Date : 23-MAR-2023 11:27

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-02RE1

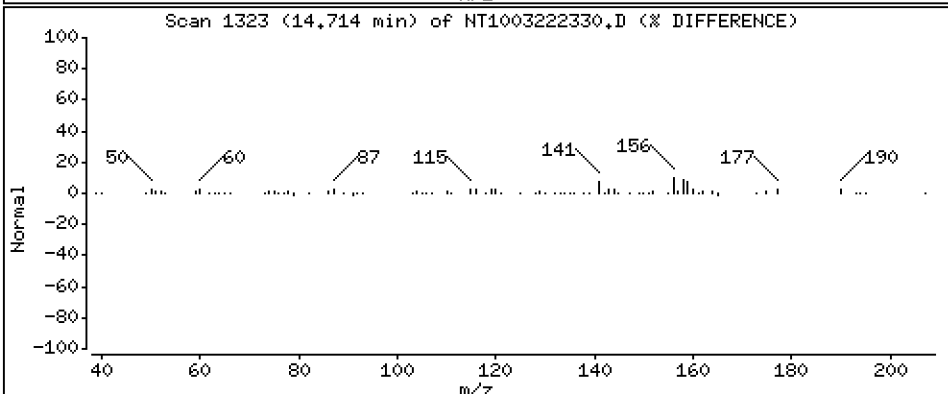
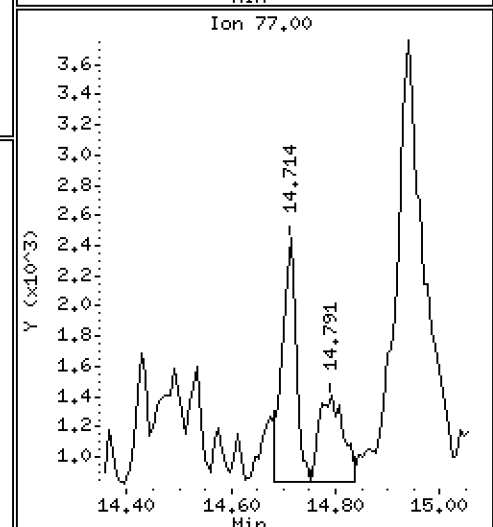
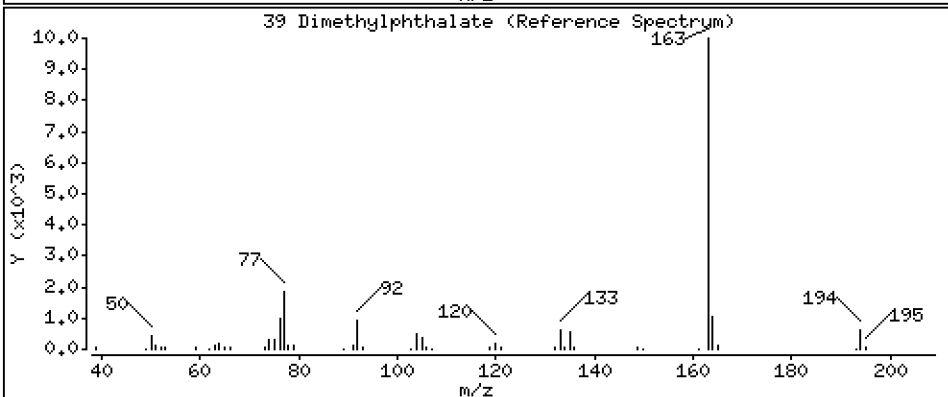
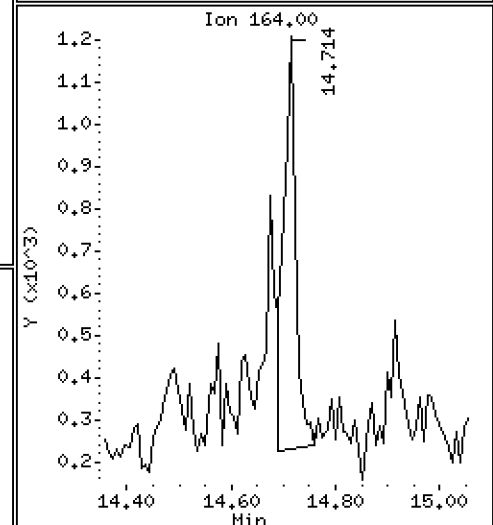
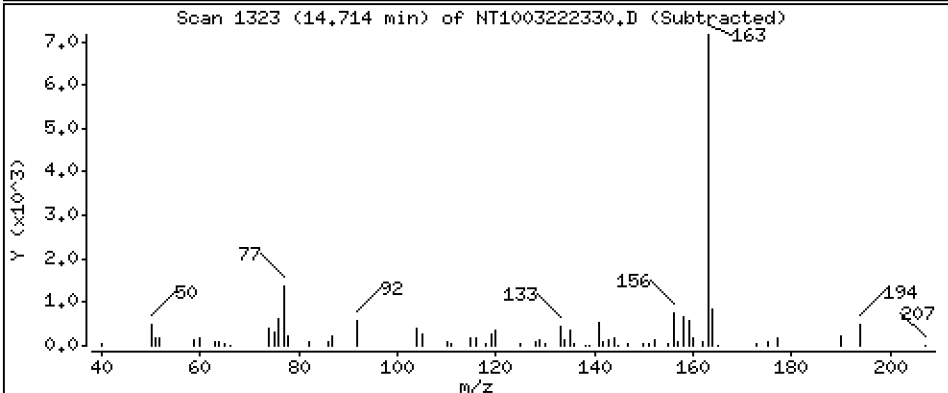
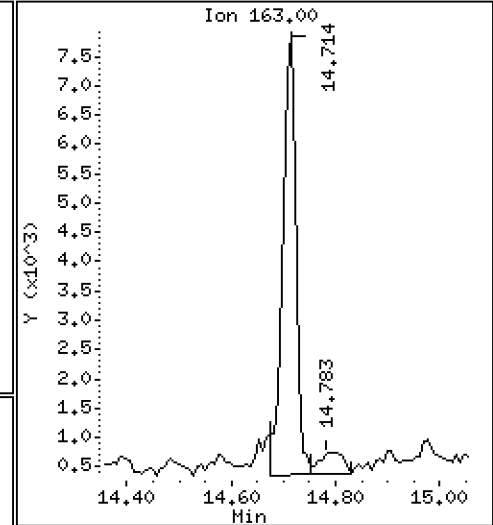
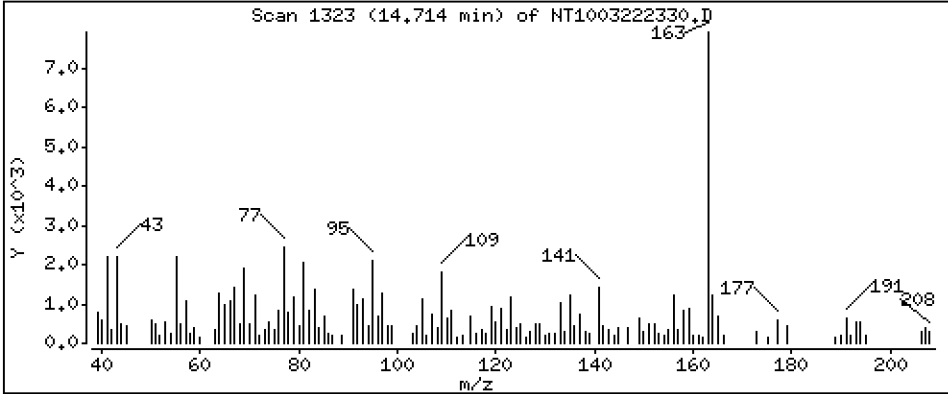
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

39 Dimethylphthalate

Concentration: 0.1358 ug/mL



Date : 23-MAR-2023 11:27

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-02RE1

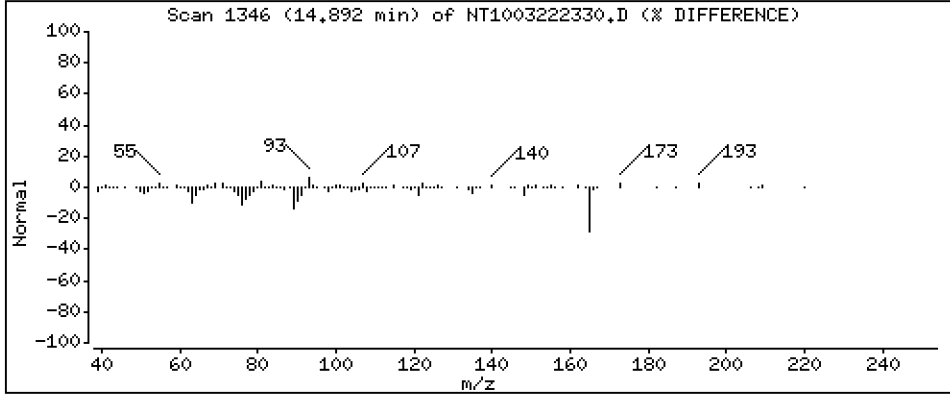
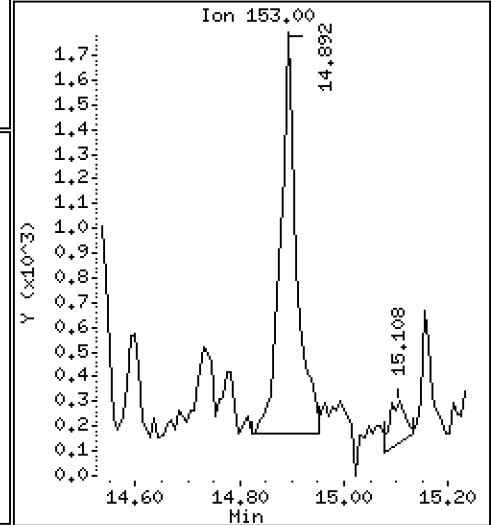
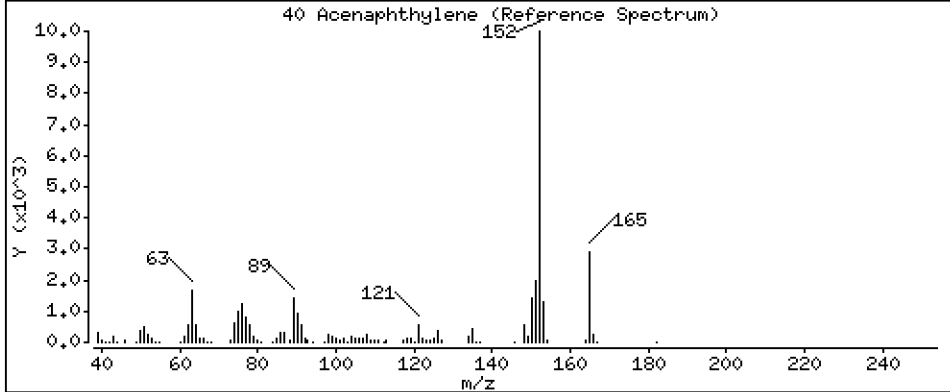
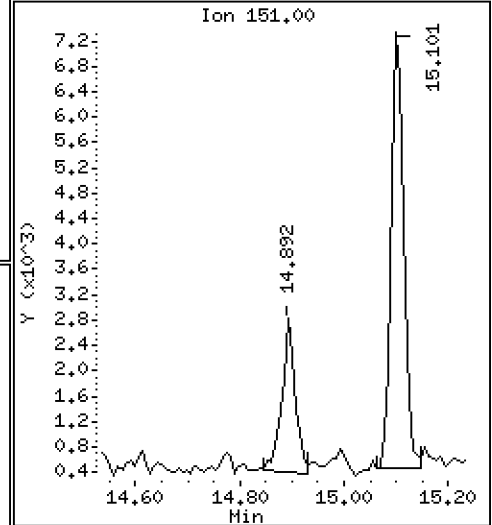
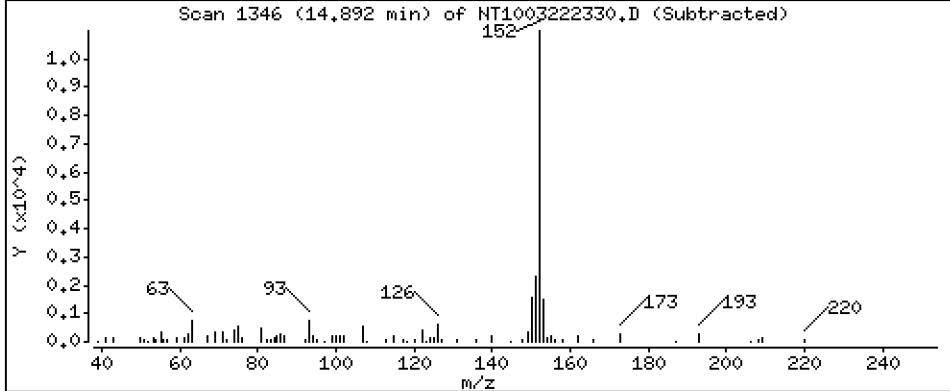
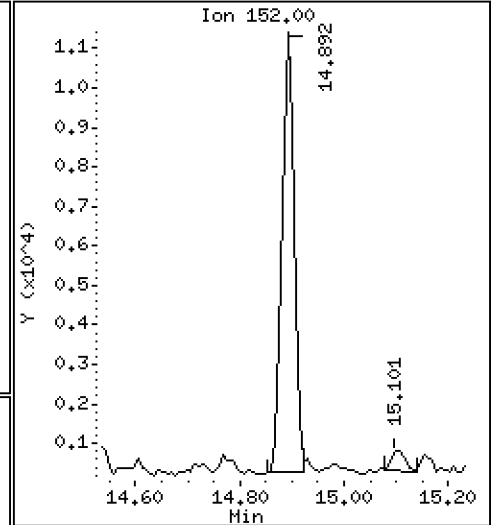
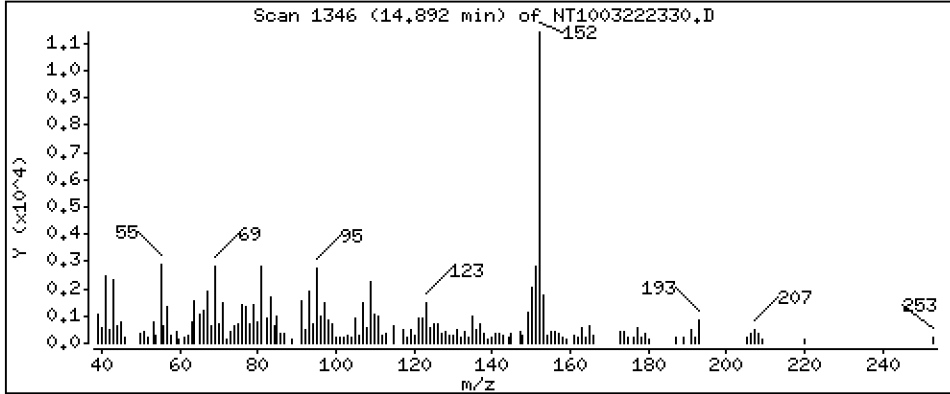
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

40 Acenaphthylene

Concentration: 0.1201 ug/mL



Date : 23-MAR-2023 11:27

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-02RE1

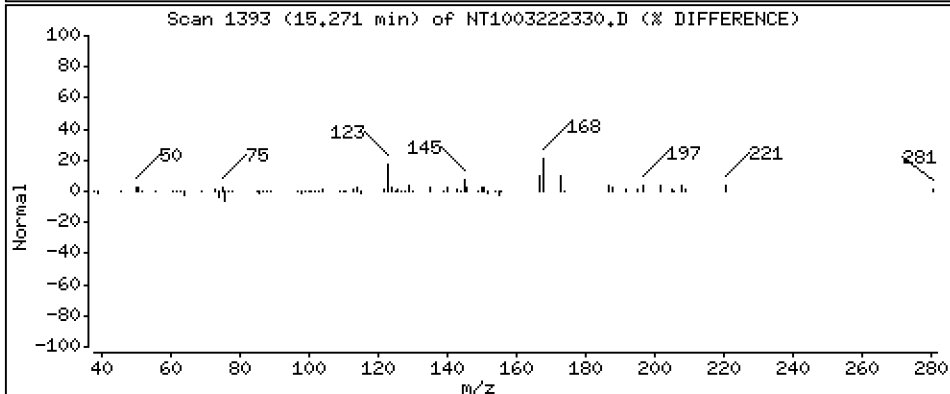
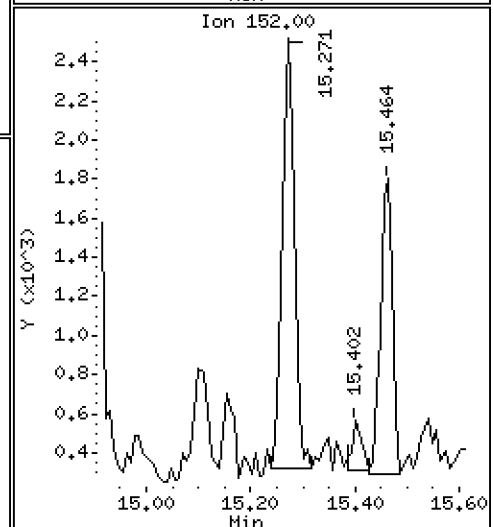
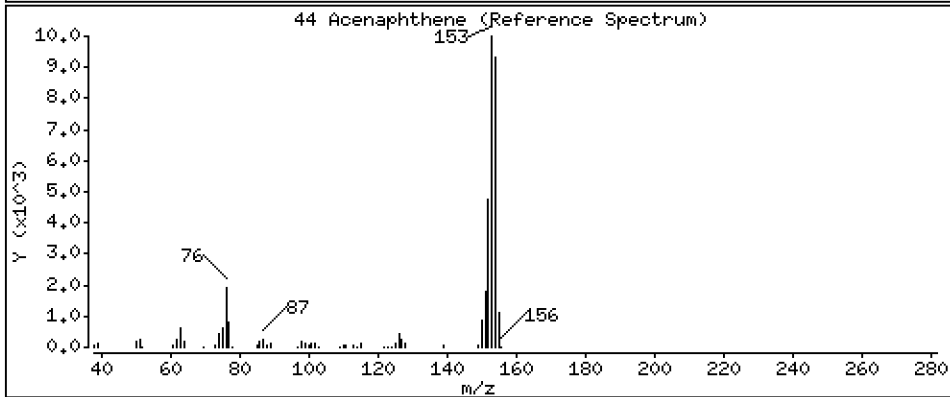
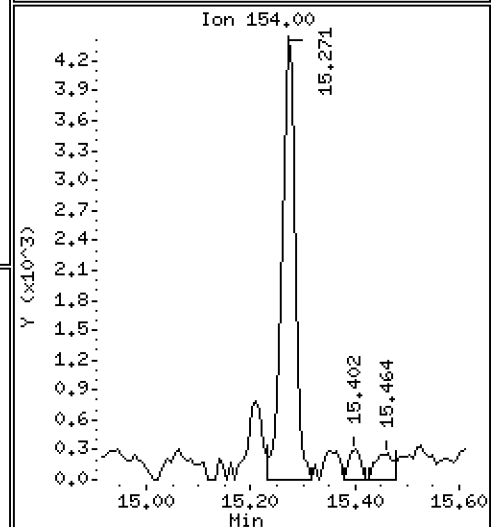
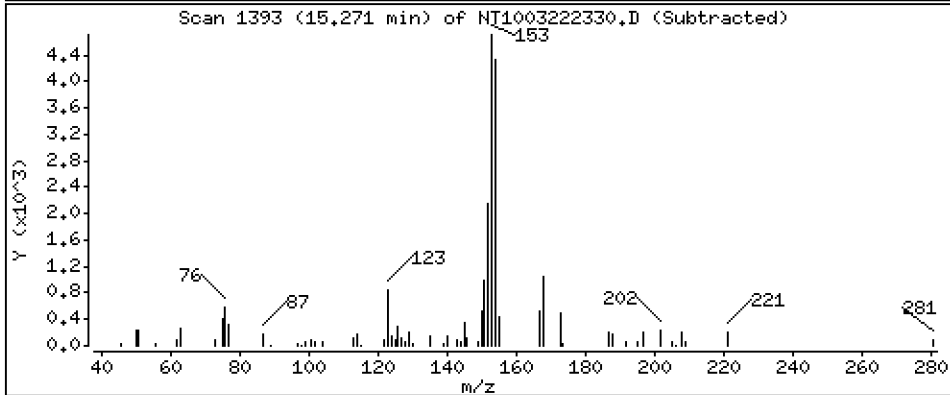
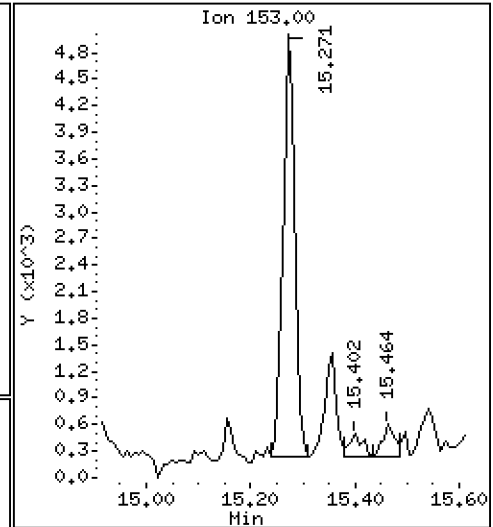
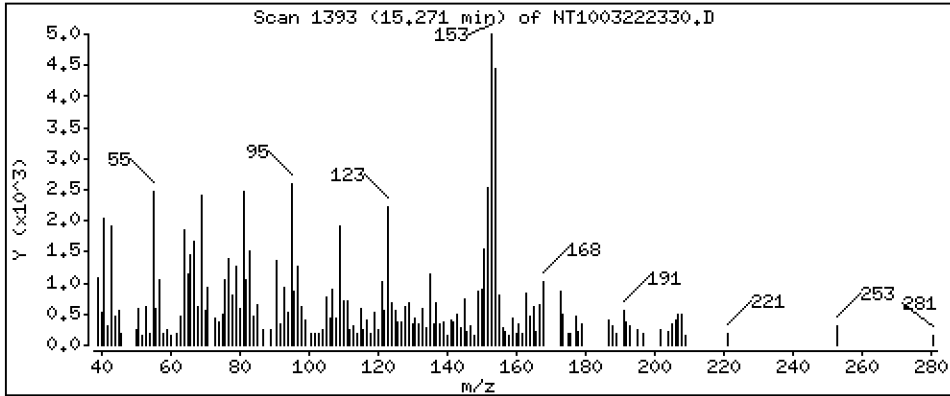
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 0,07986 ug/mL



Date : 23-MAR-2023 11:27

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-02RE1

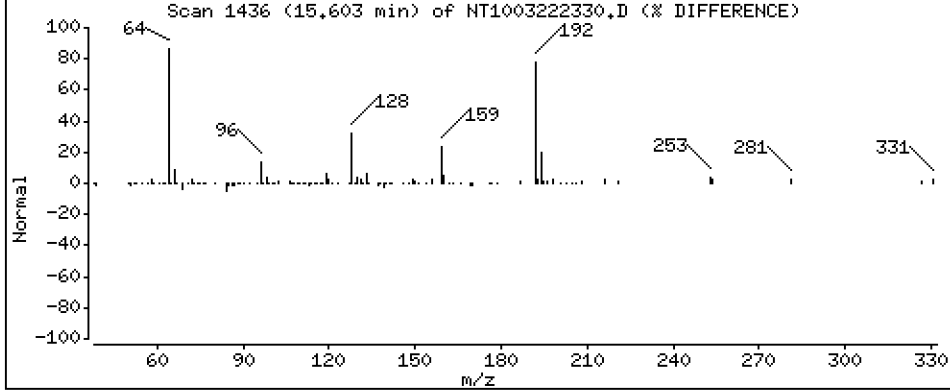
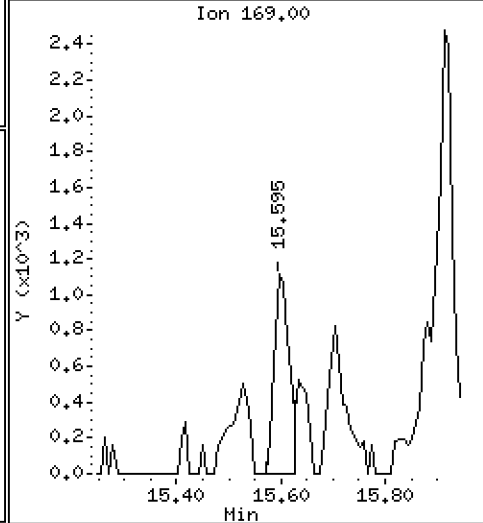
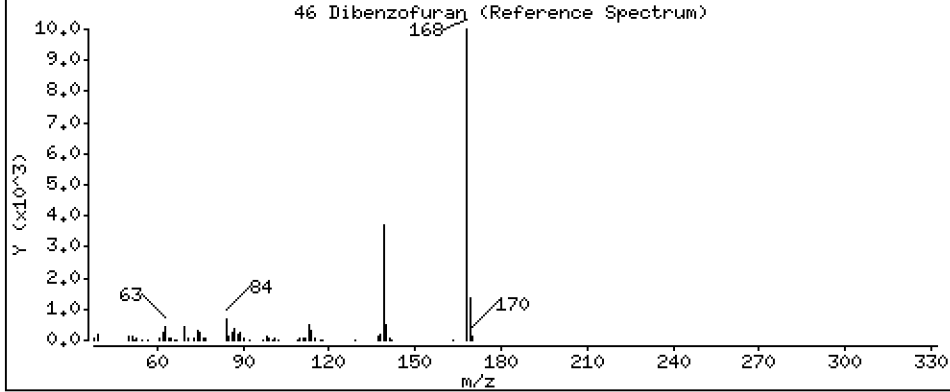
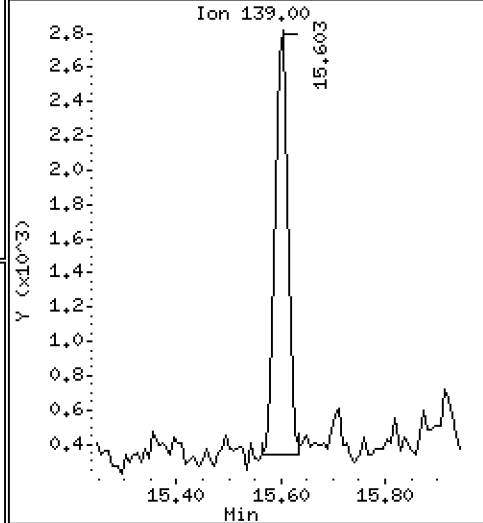
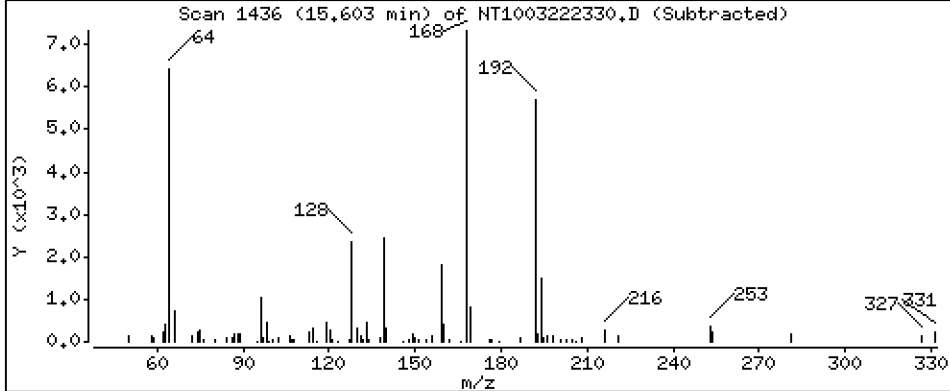
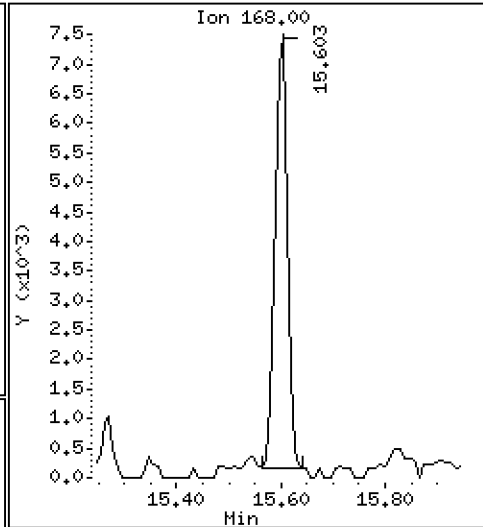
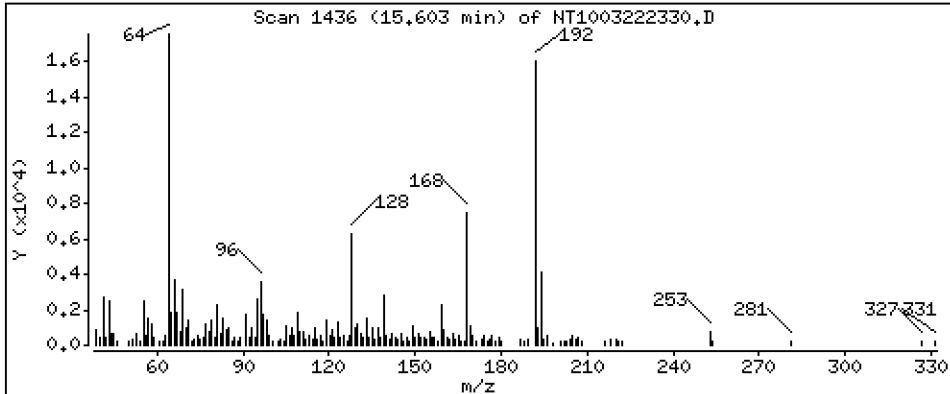
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 0,08508 ug/mL



Date : 23-MAR-2023 11:27

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-02RE1

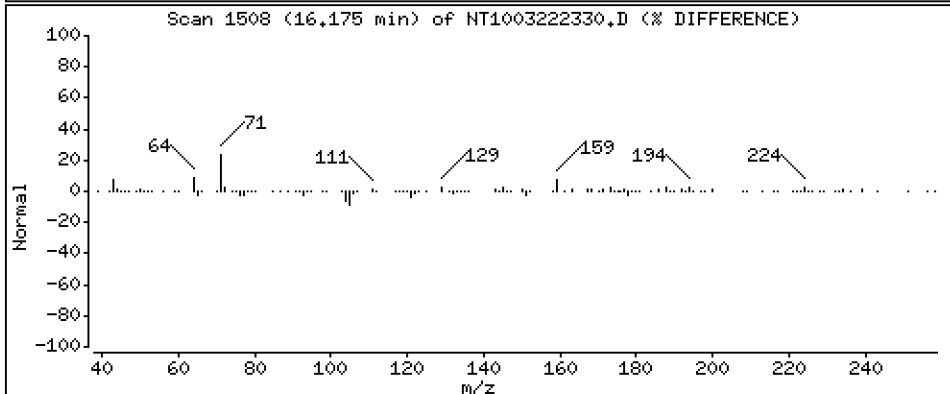
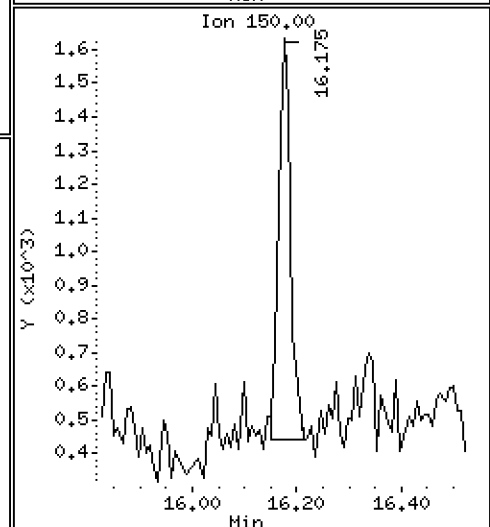
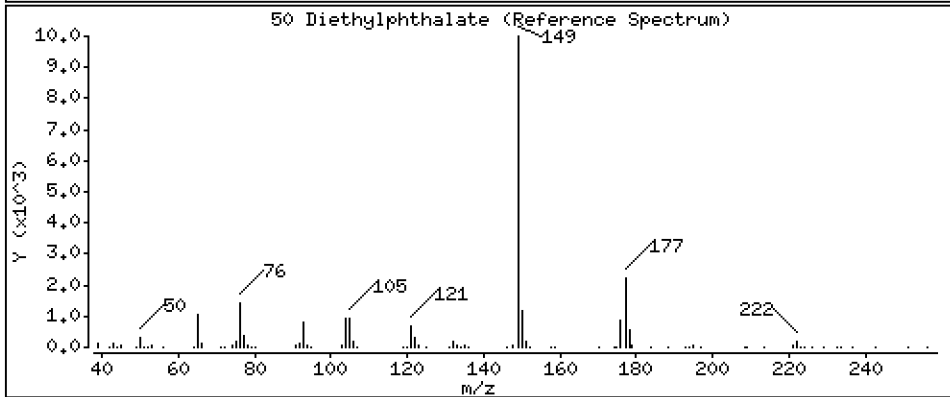
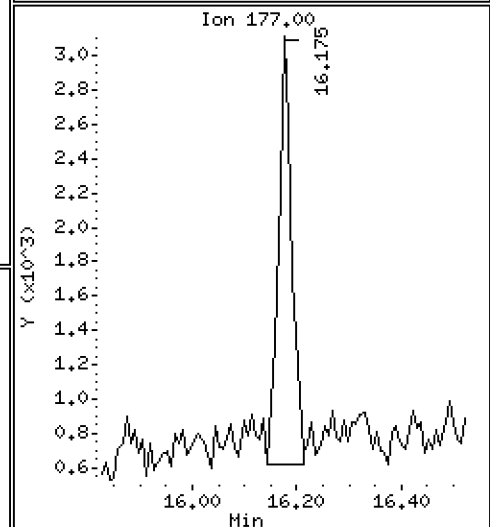
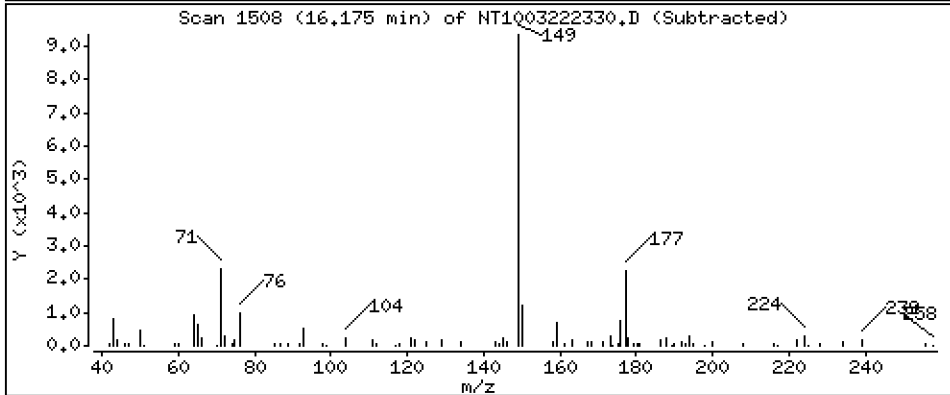
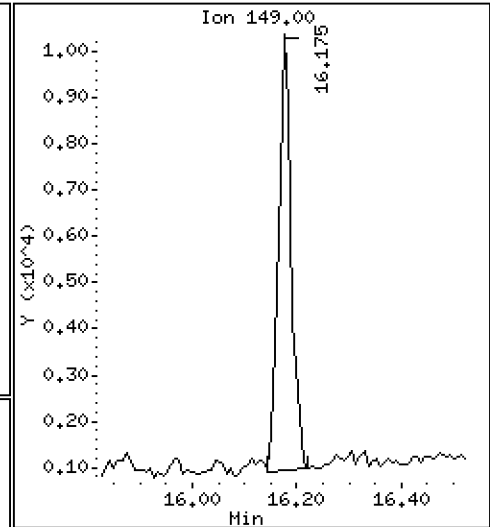
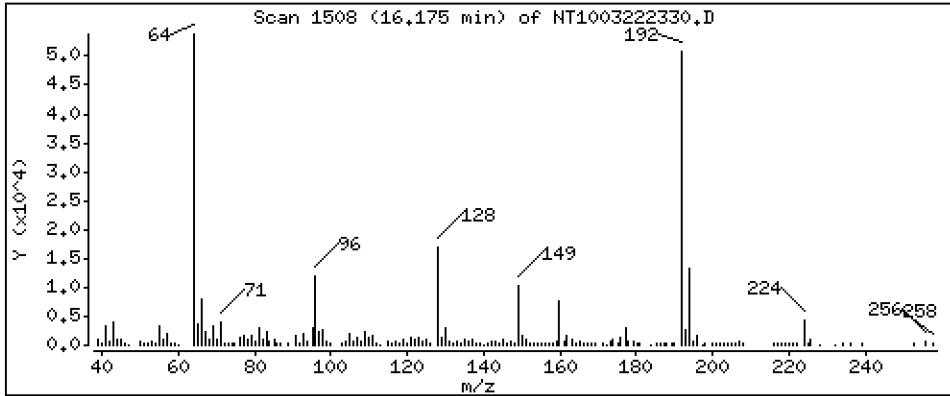
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

50 Diethylphthalate

Concentration: 0.1879 ug/mL



Date : 23-MAR-2023 11:27

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-02RE1

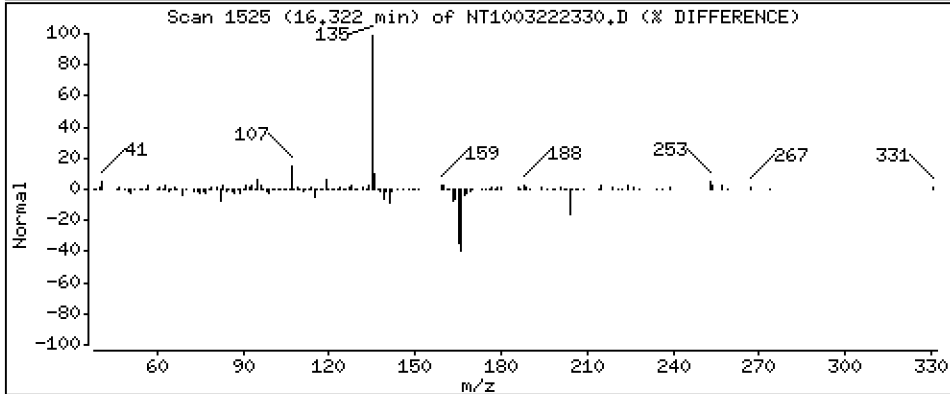
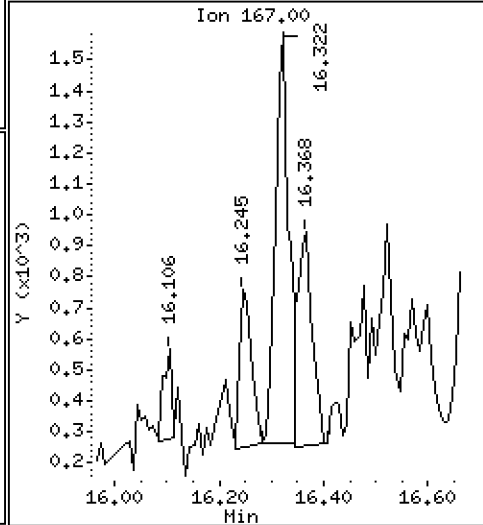
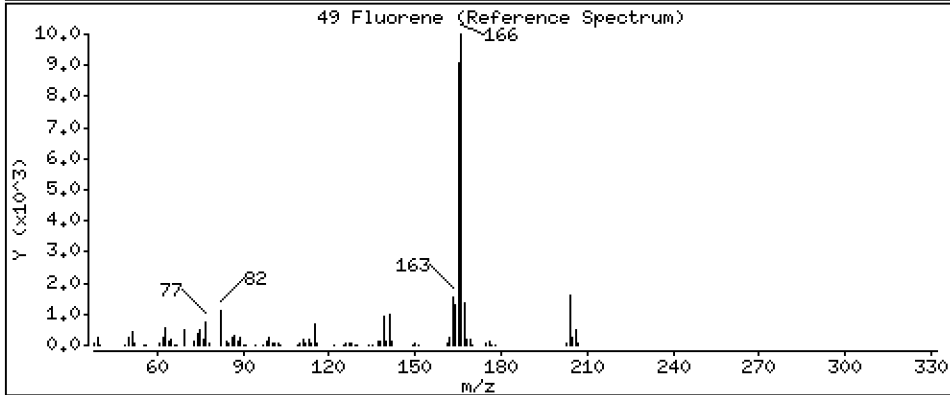
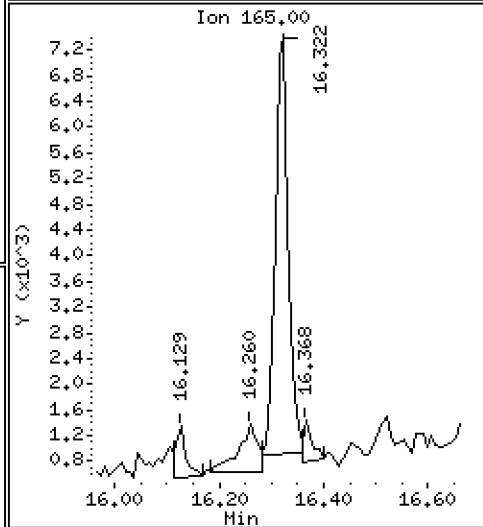
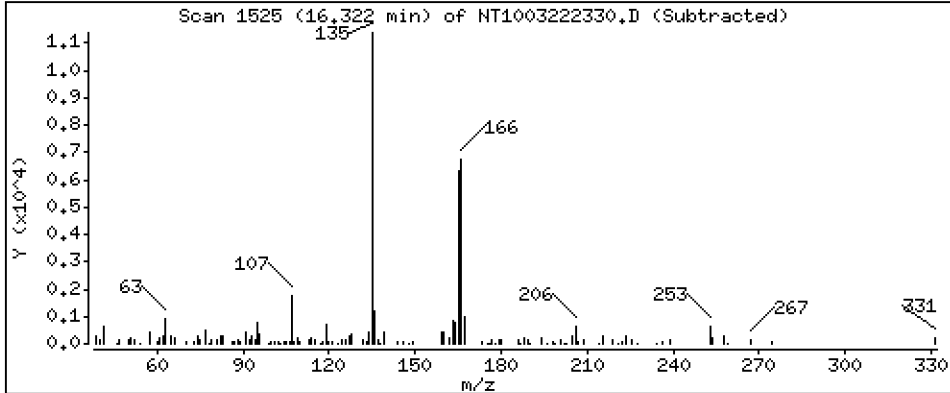
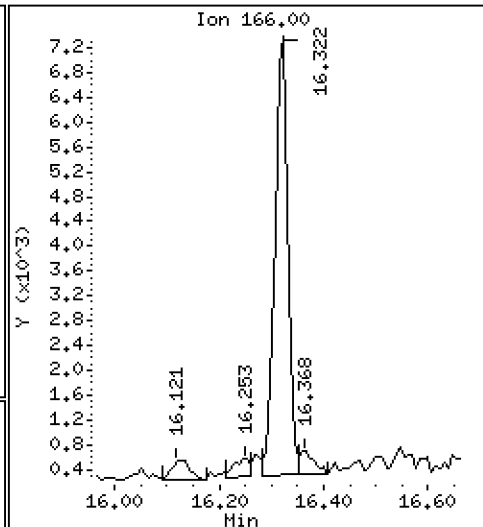
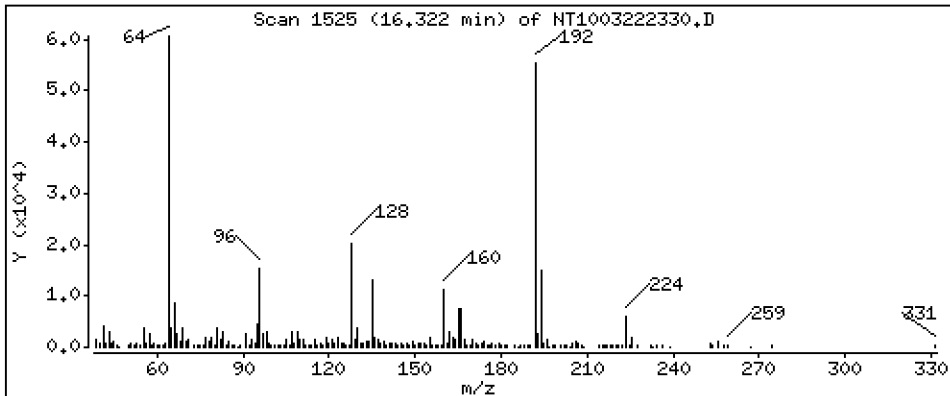
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 0,1175 ug/mL



Date : 23-MAR-2023 11:27

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-02RE1

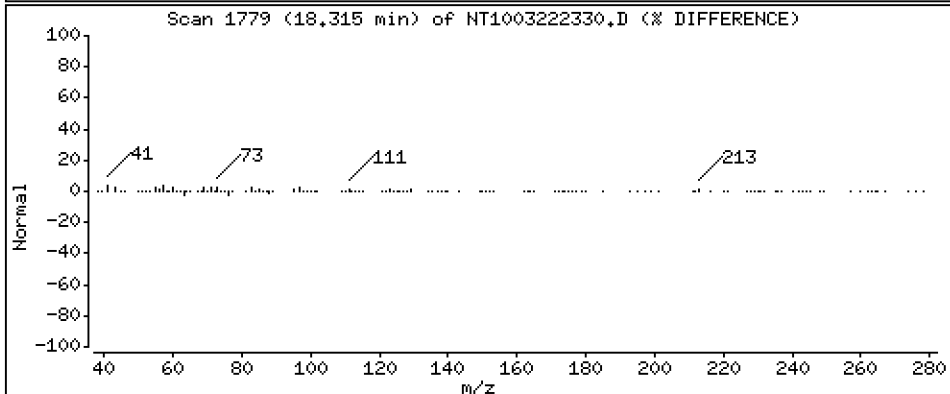
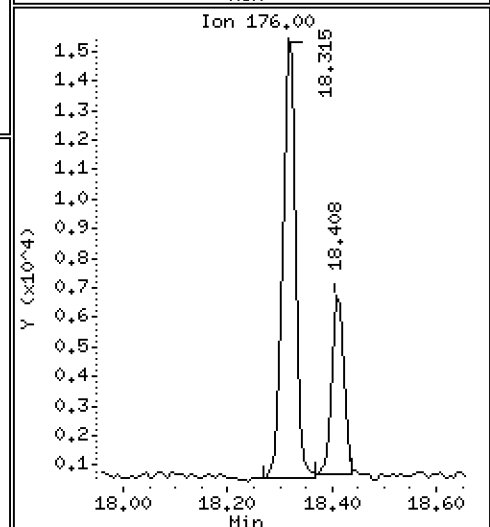
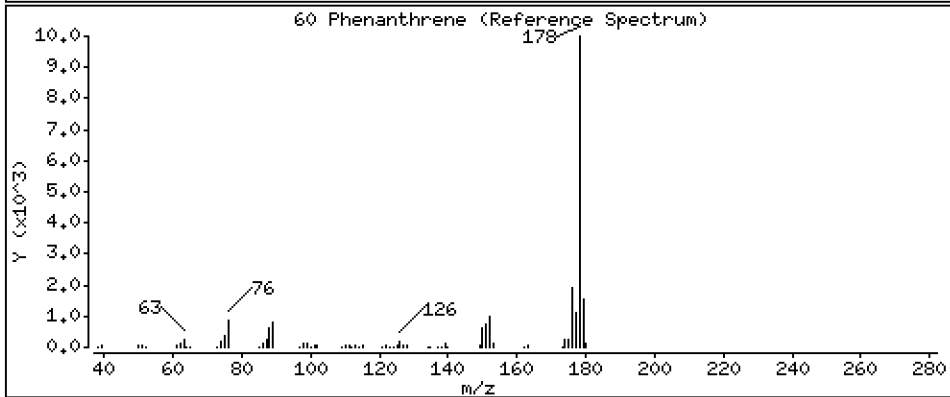
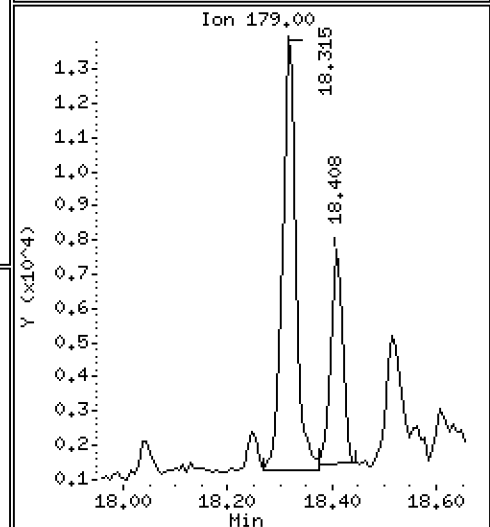
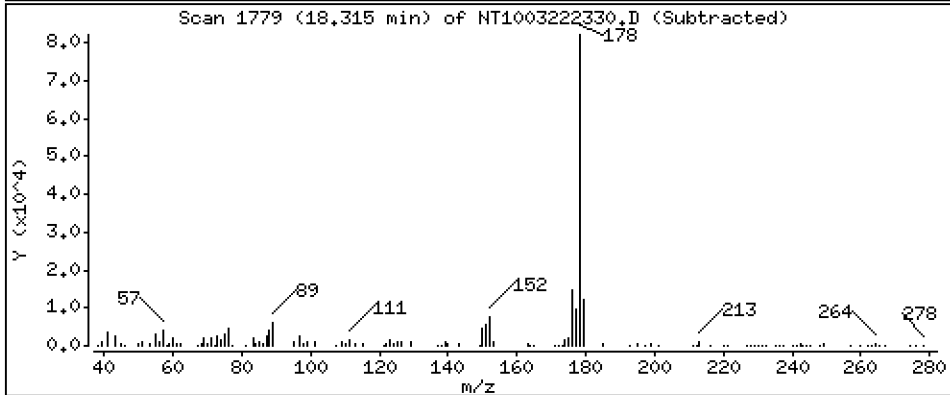
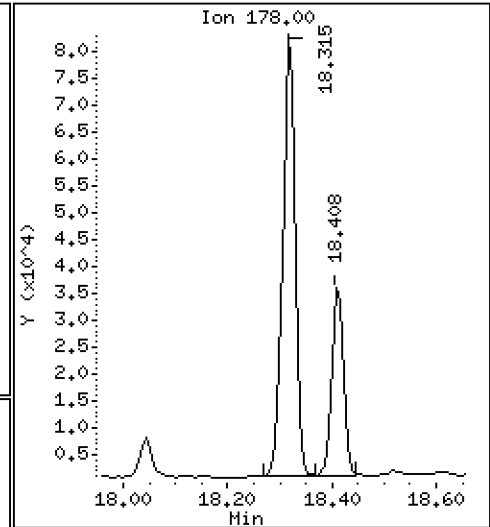
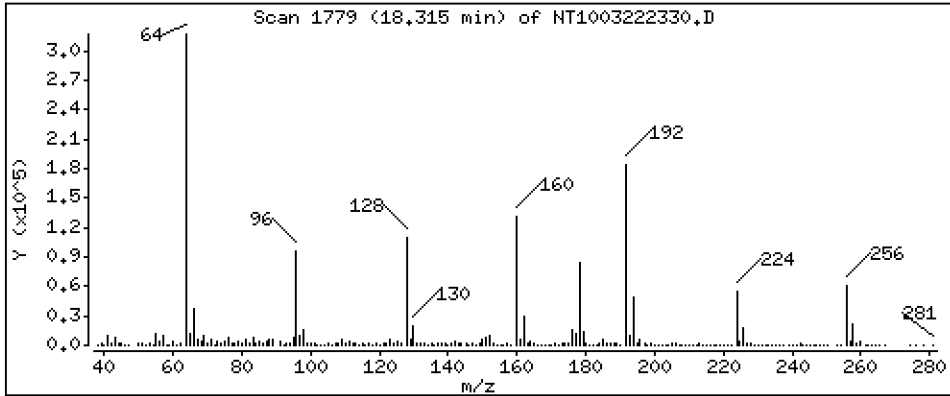
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 0,8615 ug/mL



Date : 23-MAR-2023 11:27

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-02RE1

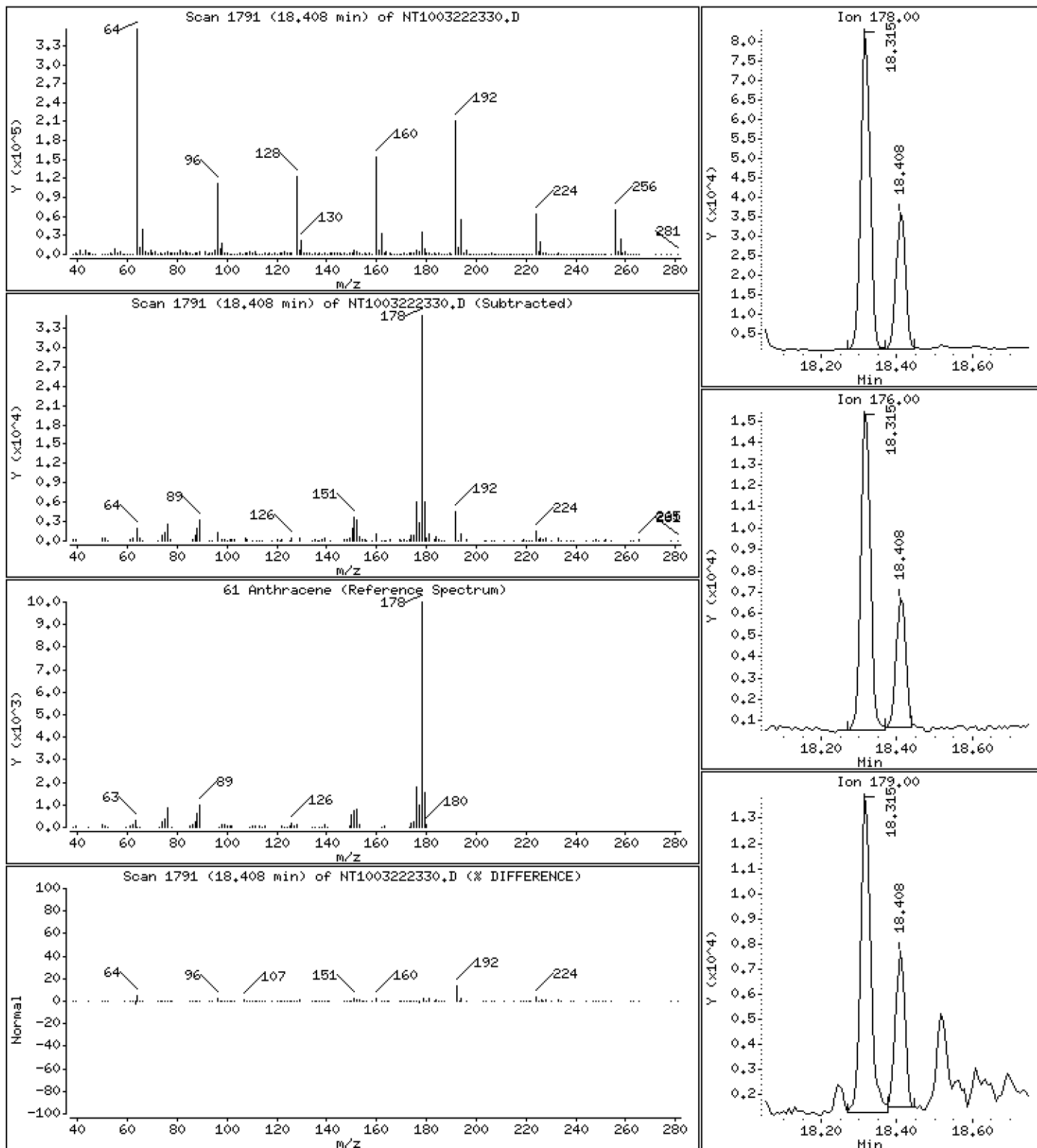
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 0,3850 ug/mL



Date : 23-MAR-2023 11:27

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-02RE1

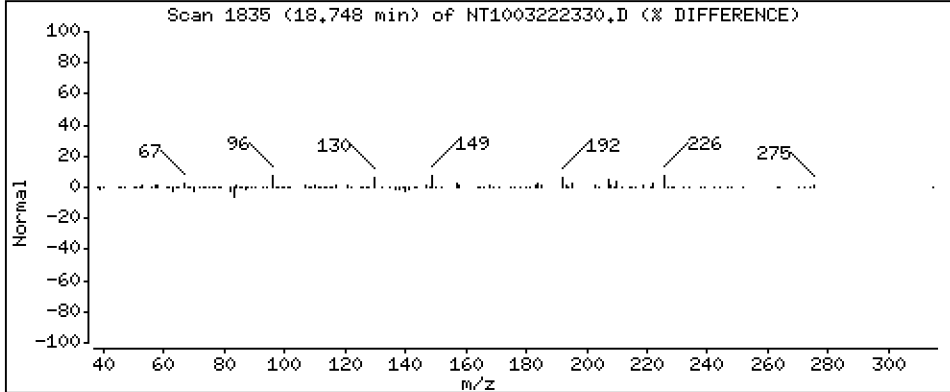
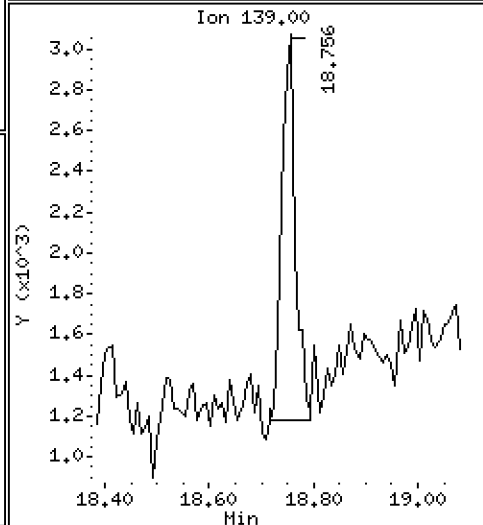
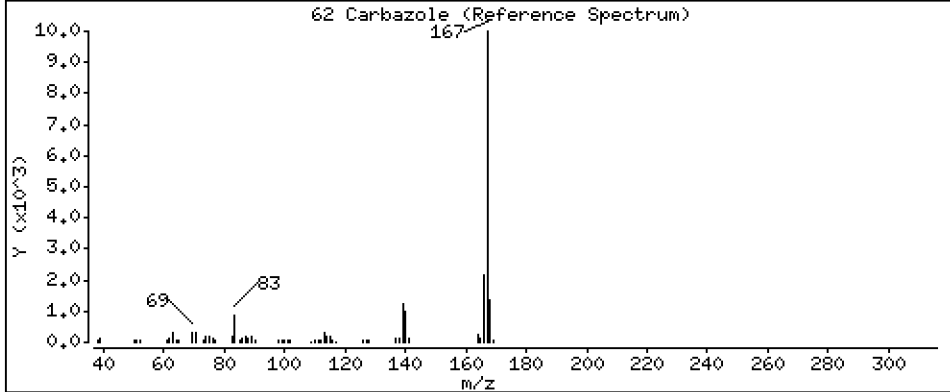
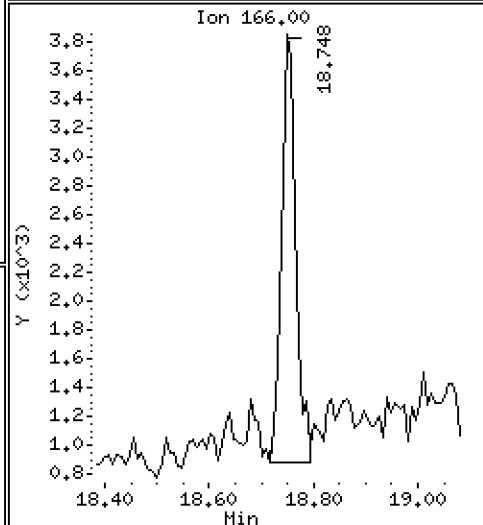
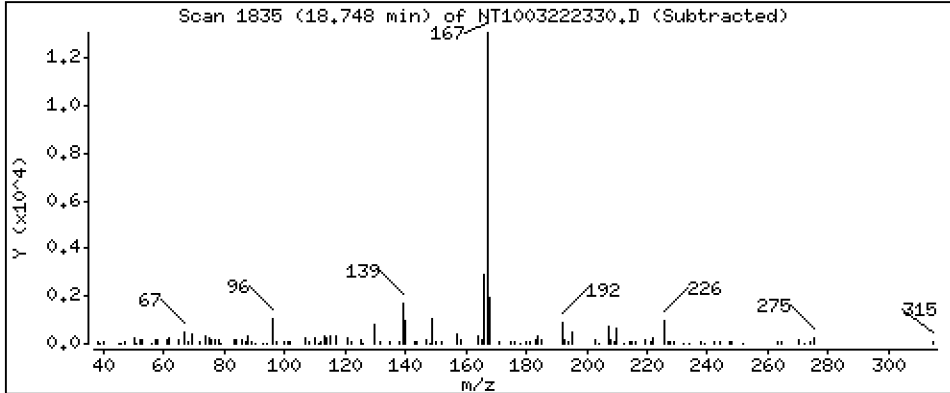
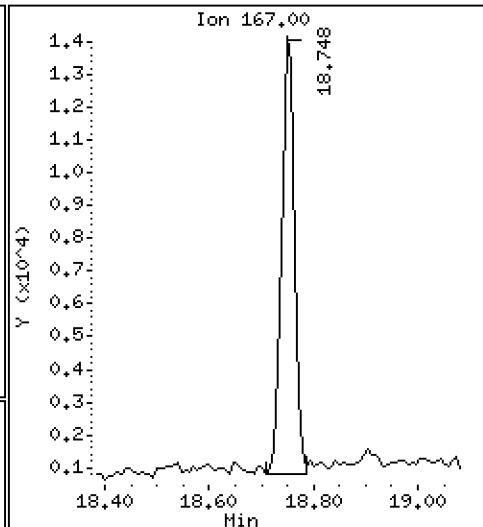
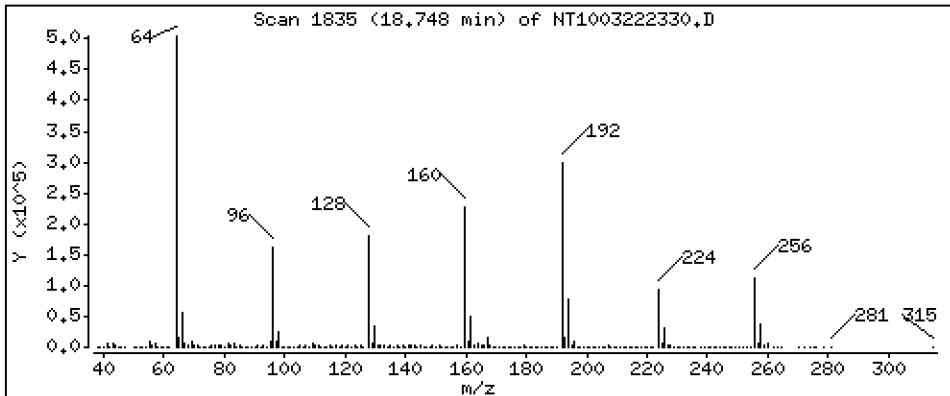
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 0,1691 ug/mL



Date : 23-MAR-2023 11:27

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-02RE1

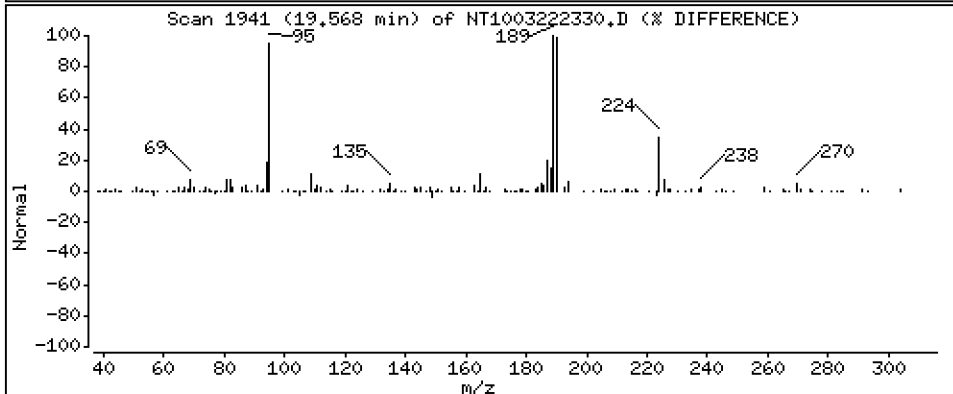
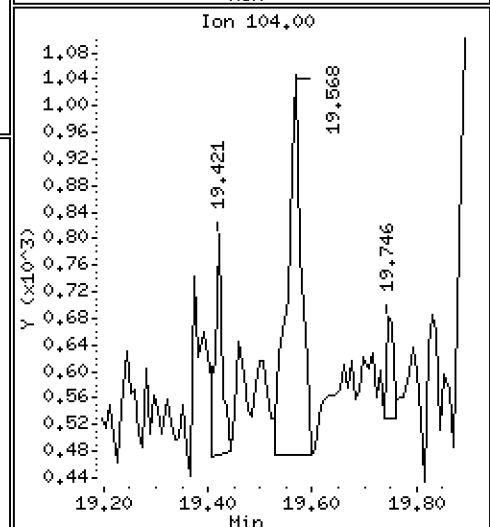
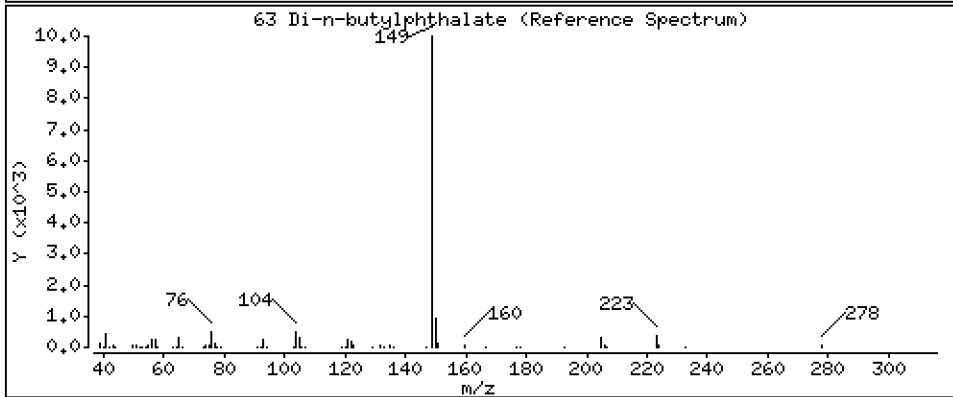
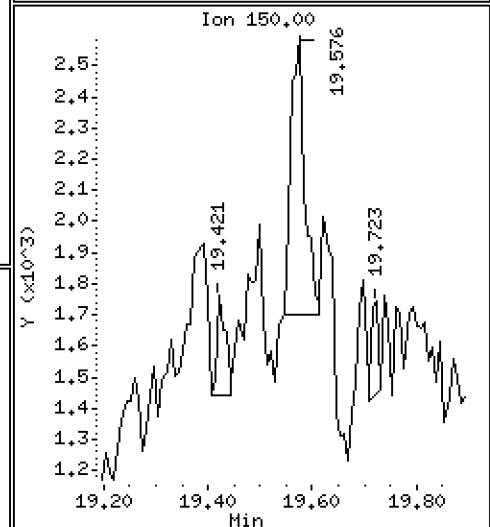
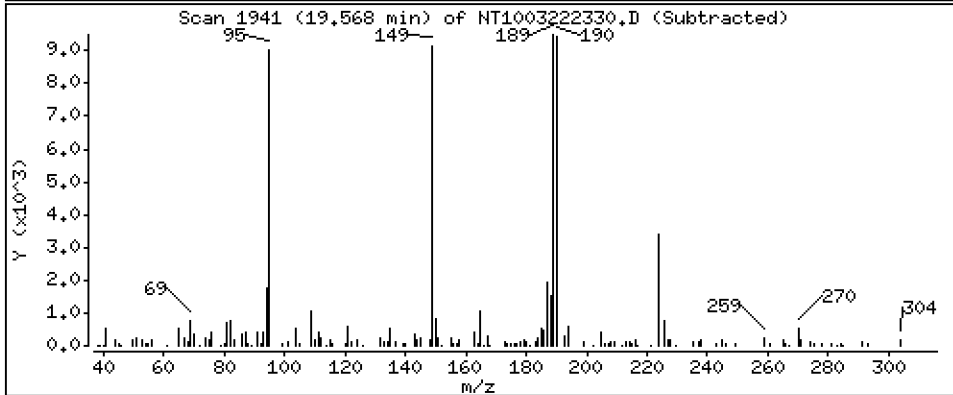
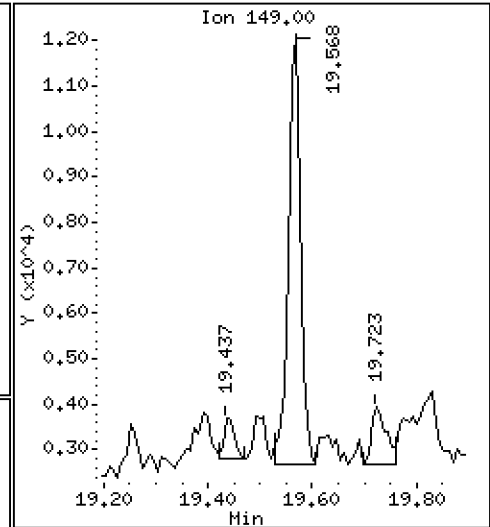
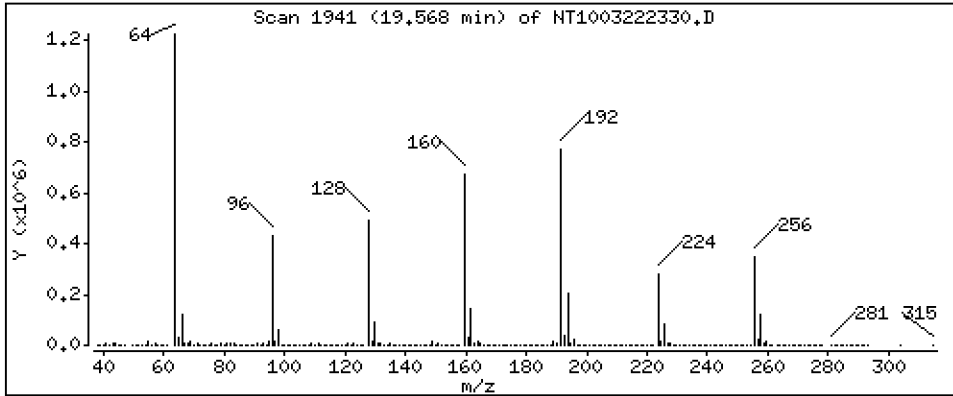
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

63 Di-n-butylphthalate

Concentration: 0.08774 ug/mL



Date : 23-MAR-2023 11:27

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-02RE1

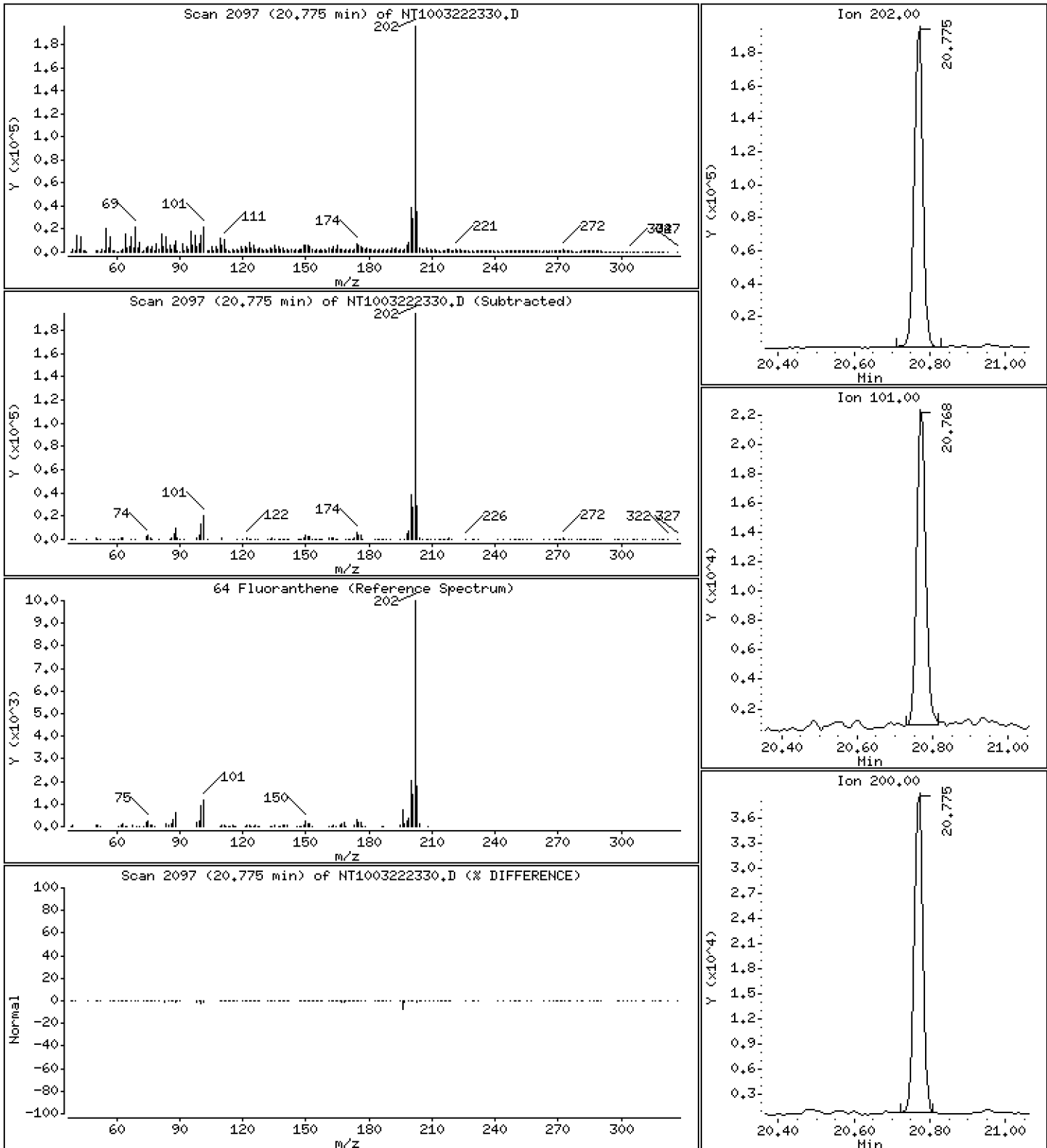
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 1,568 ug/mL



Date : 23-MAR-2023 11:27

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-02RE1

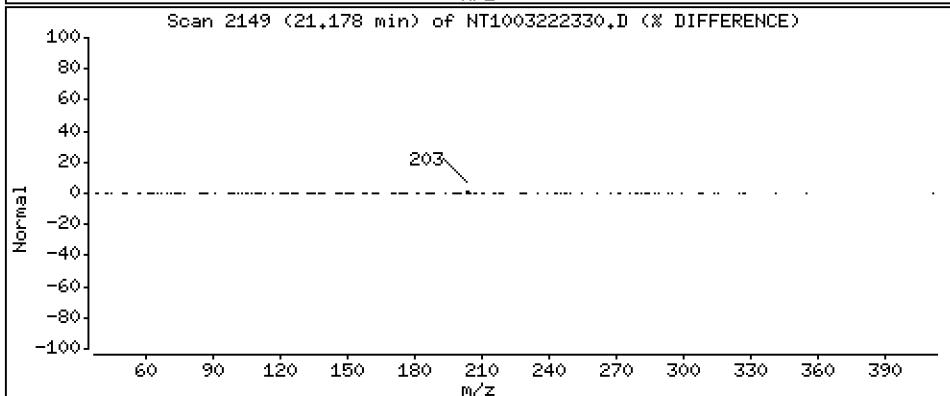
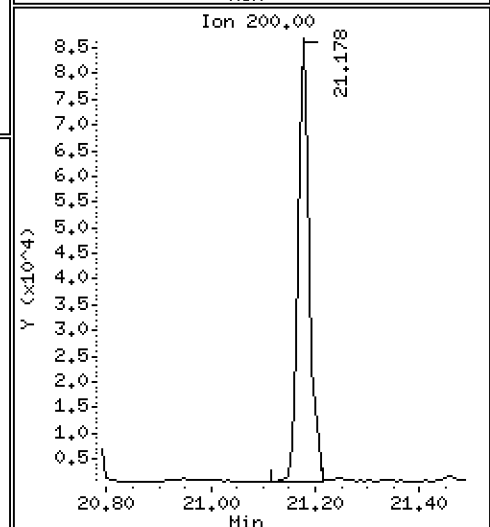
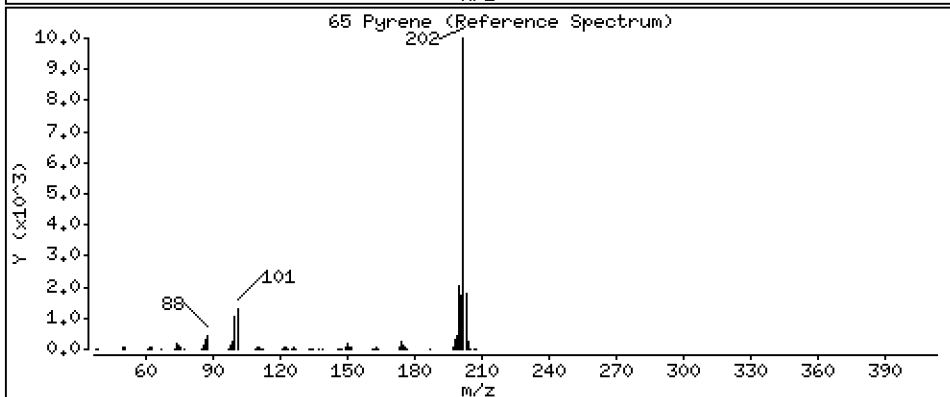
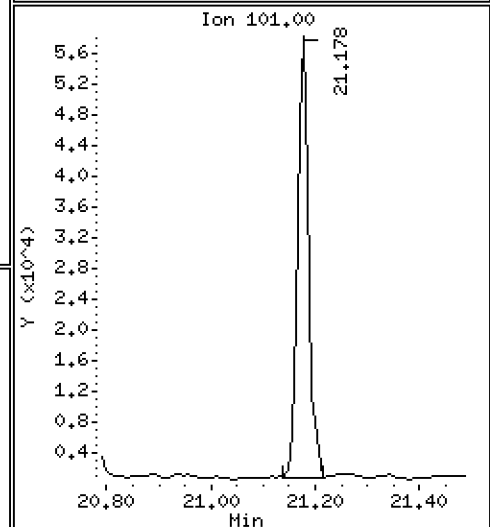
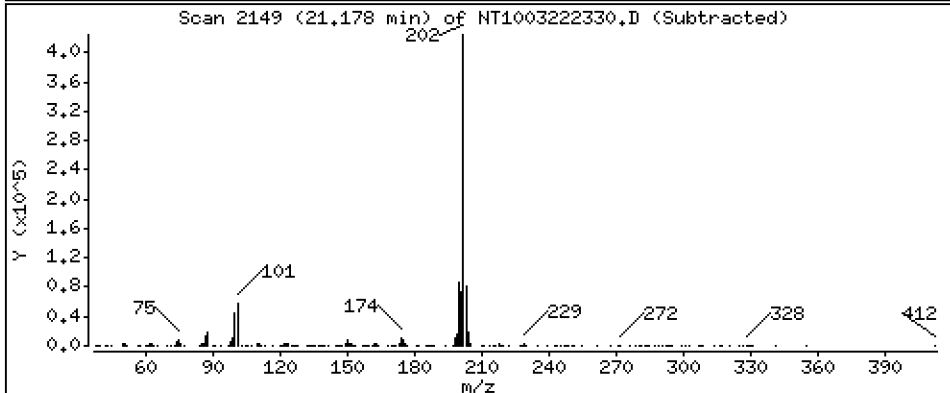
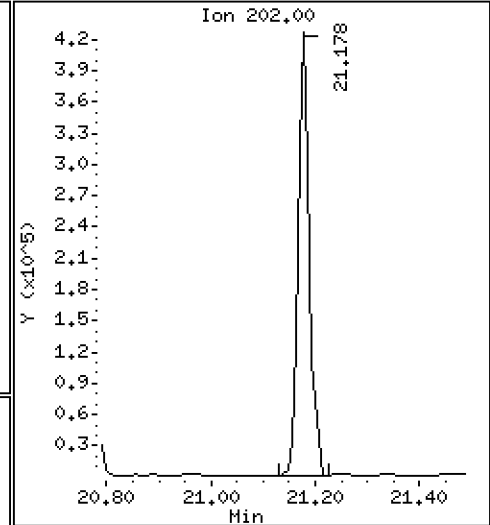
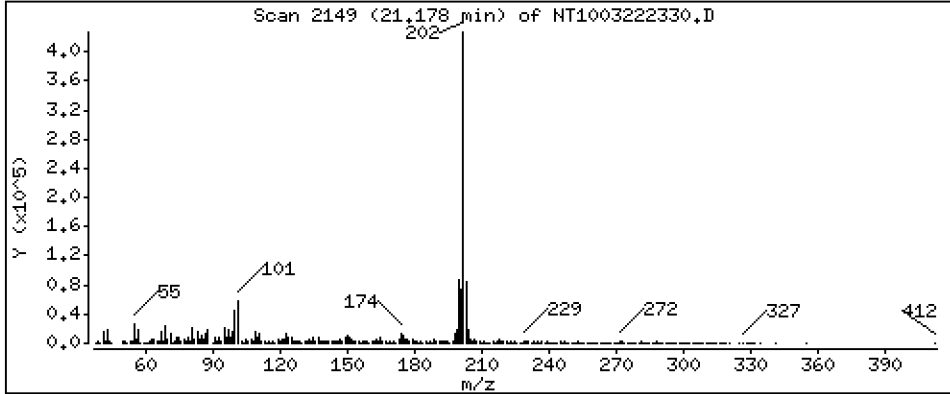
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 3,470 ug/mL



Date : 23-MAR-2023 11:27

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-02RE1

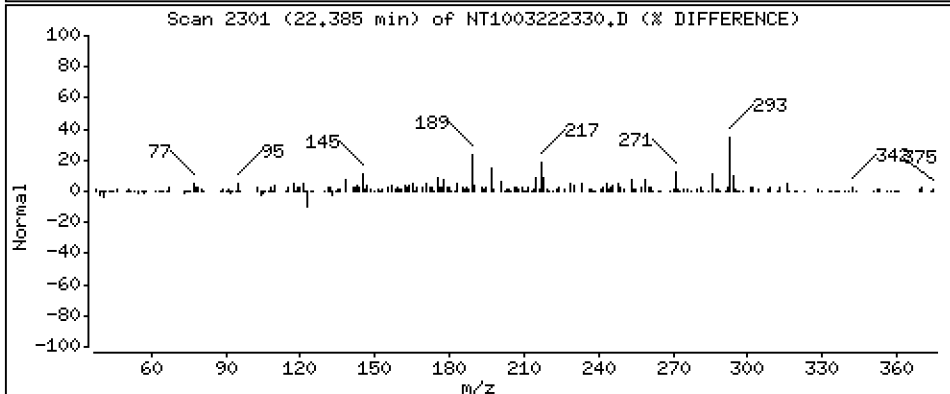
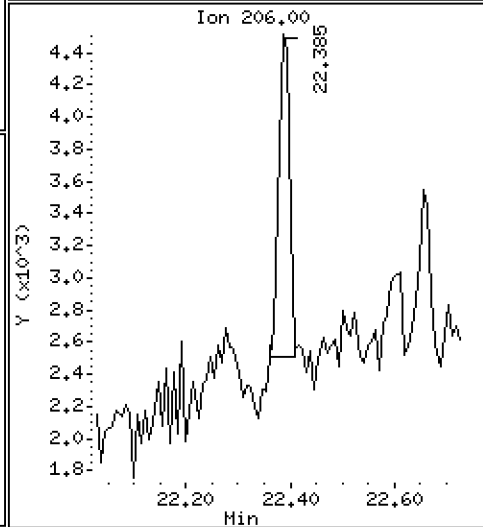
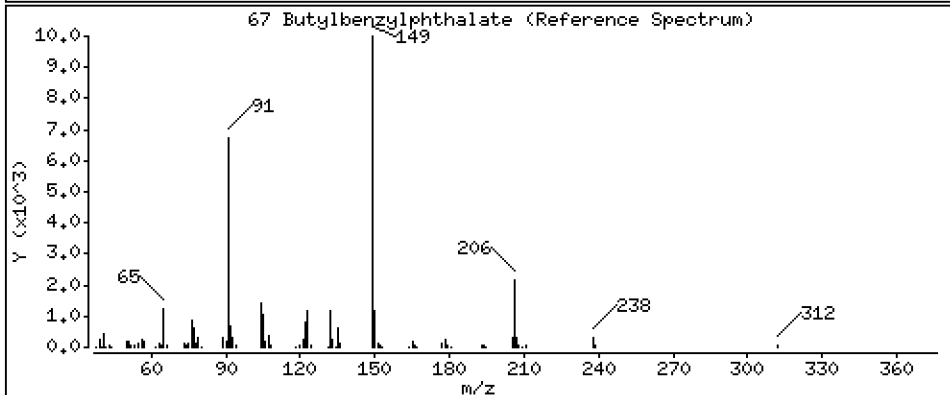
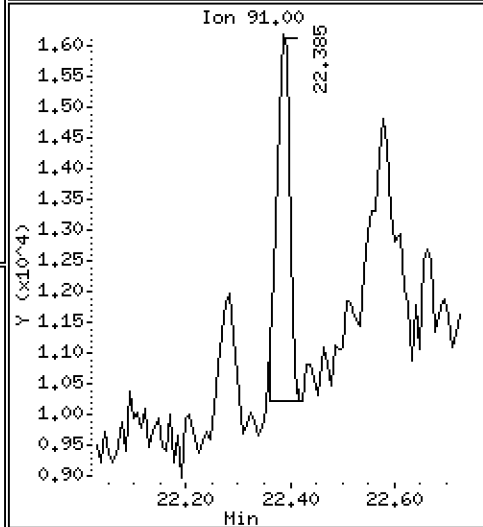
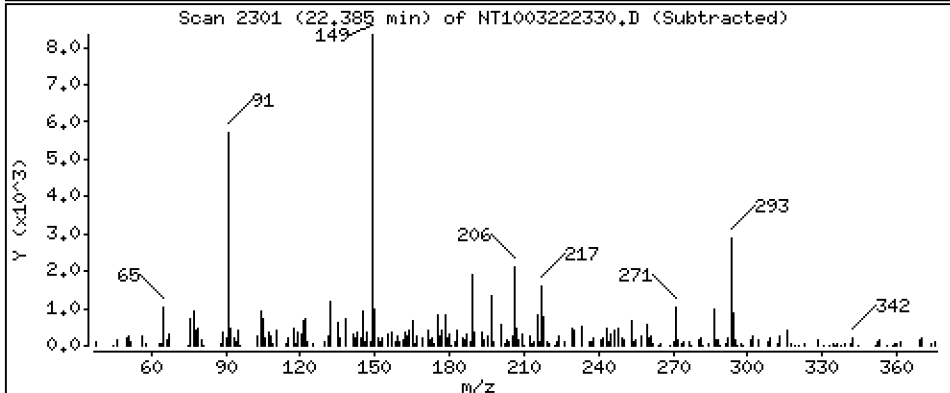
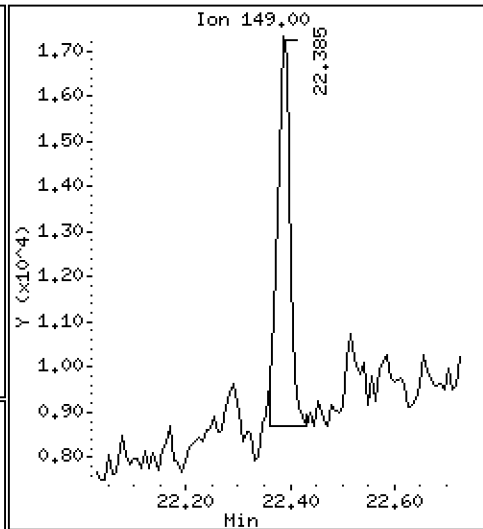
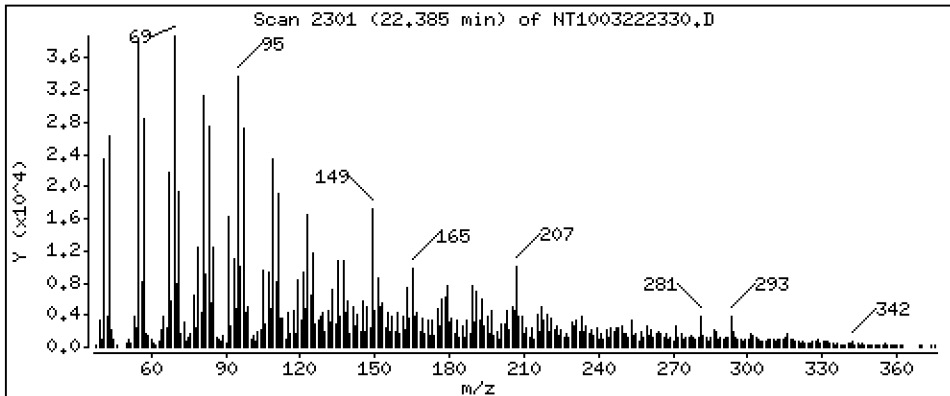
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

67 Butylbenzylphthalate

Concentration: 0.1958 ug/mL



Date : 23-MAR-2023 11:27

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-02RE1

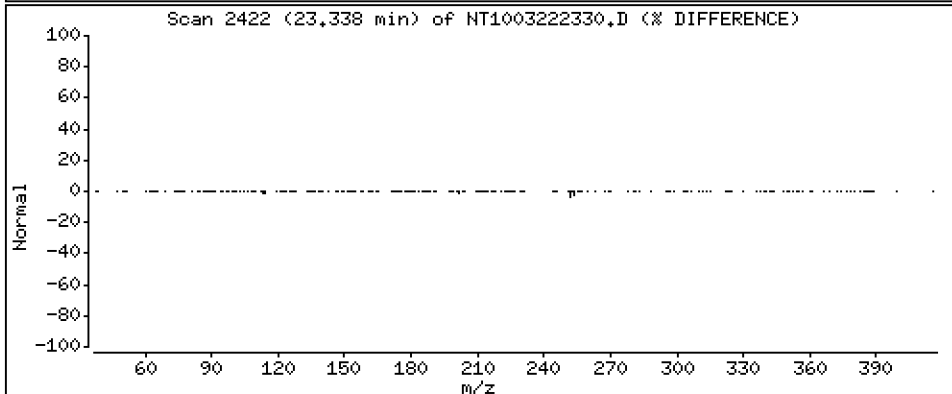
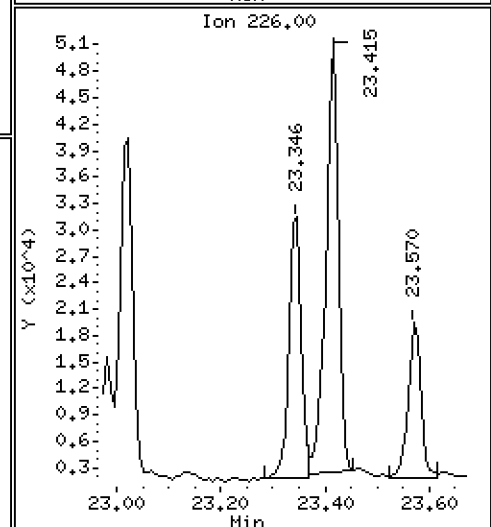
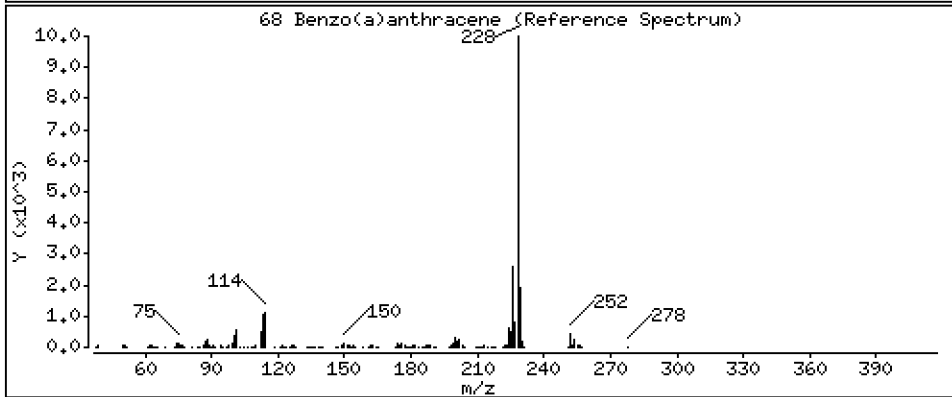
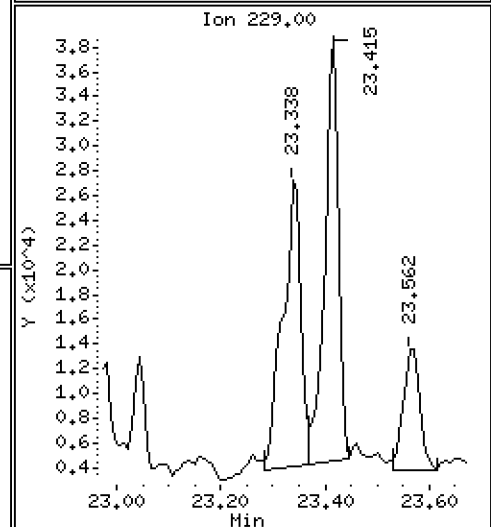
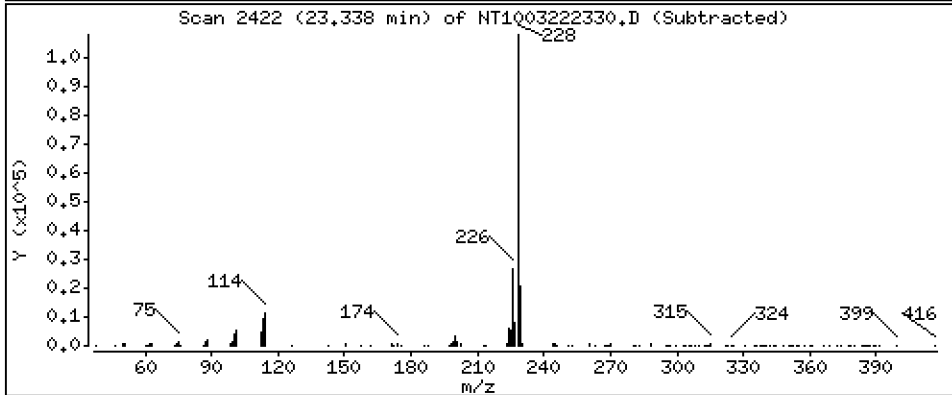
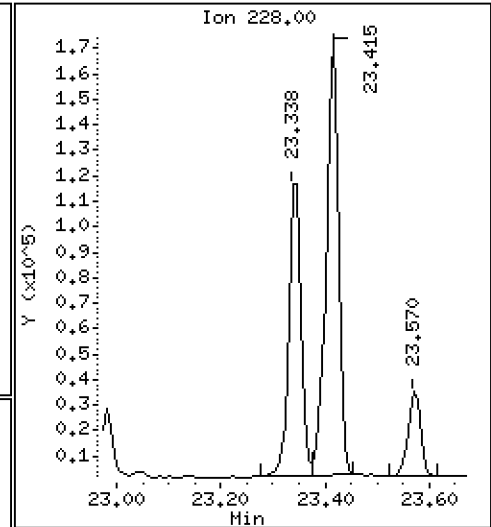
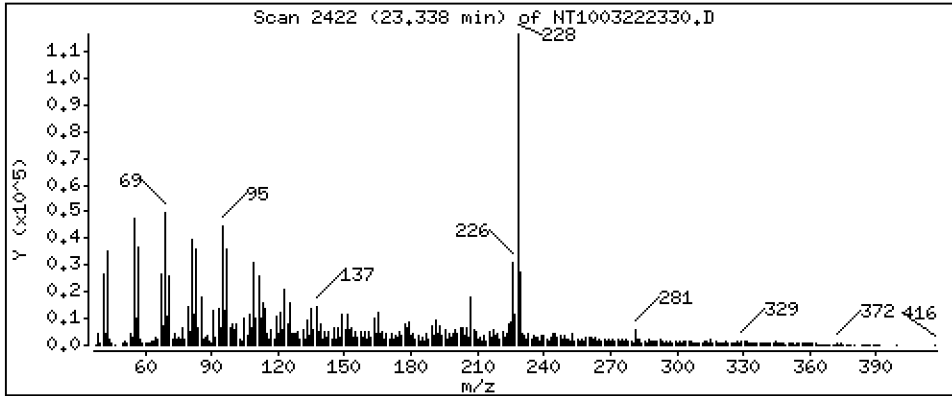
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 1,093 ug/mL



Date : 23-MAR-2023 11:27

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-02RE1

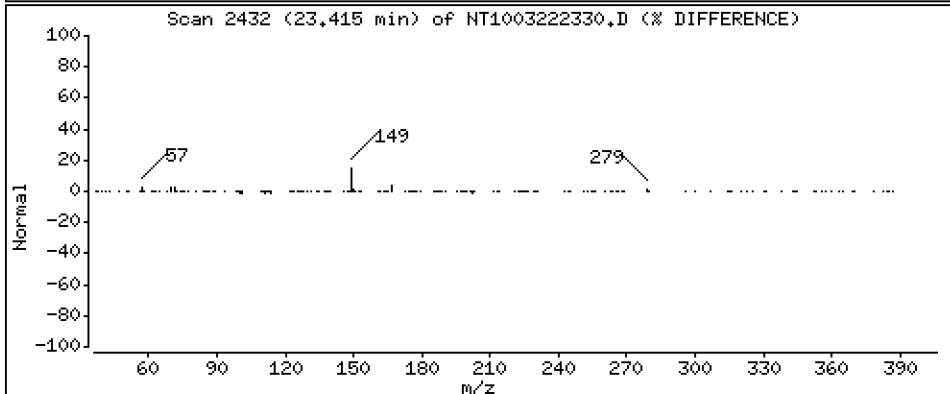
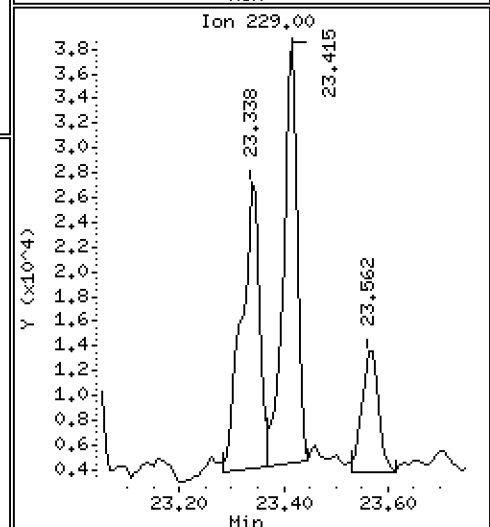
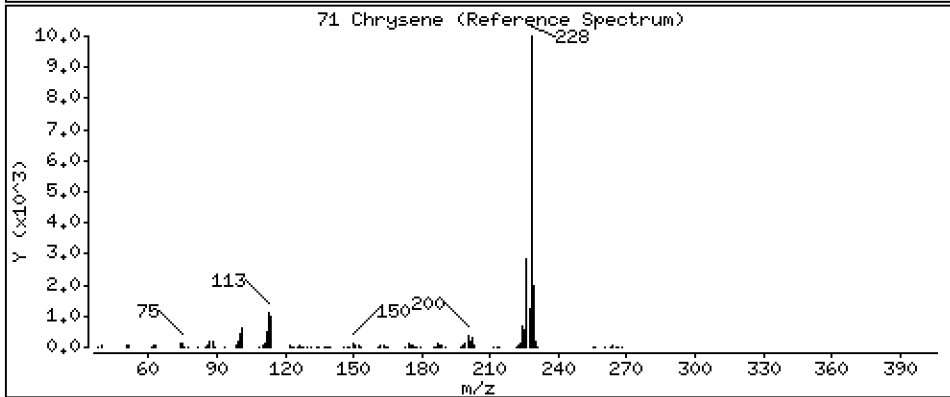
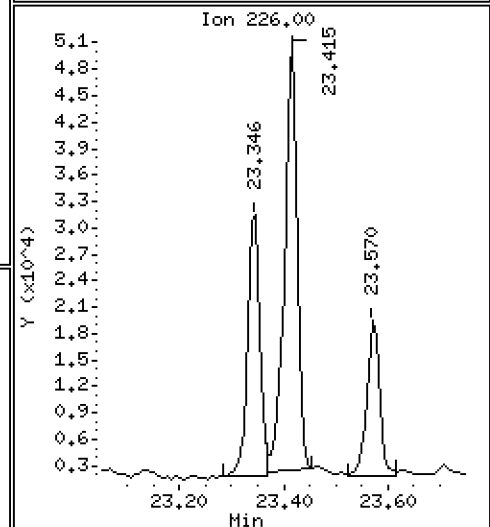
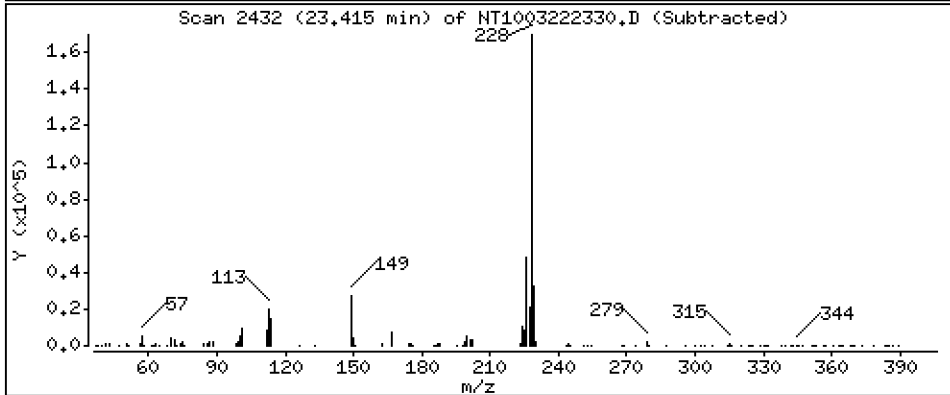
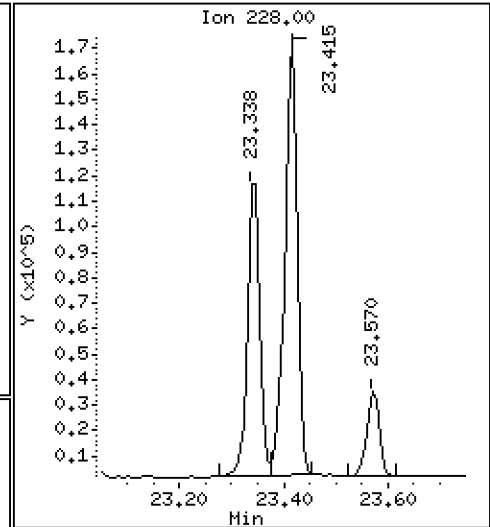
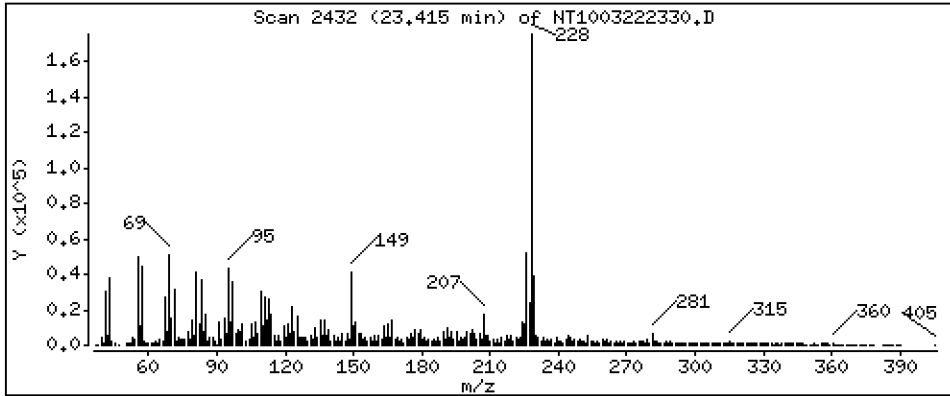
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 1,621 ug/mL



Date : 23-MAR-2023 11:27

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-02RE1

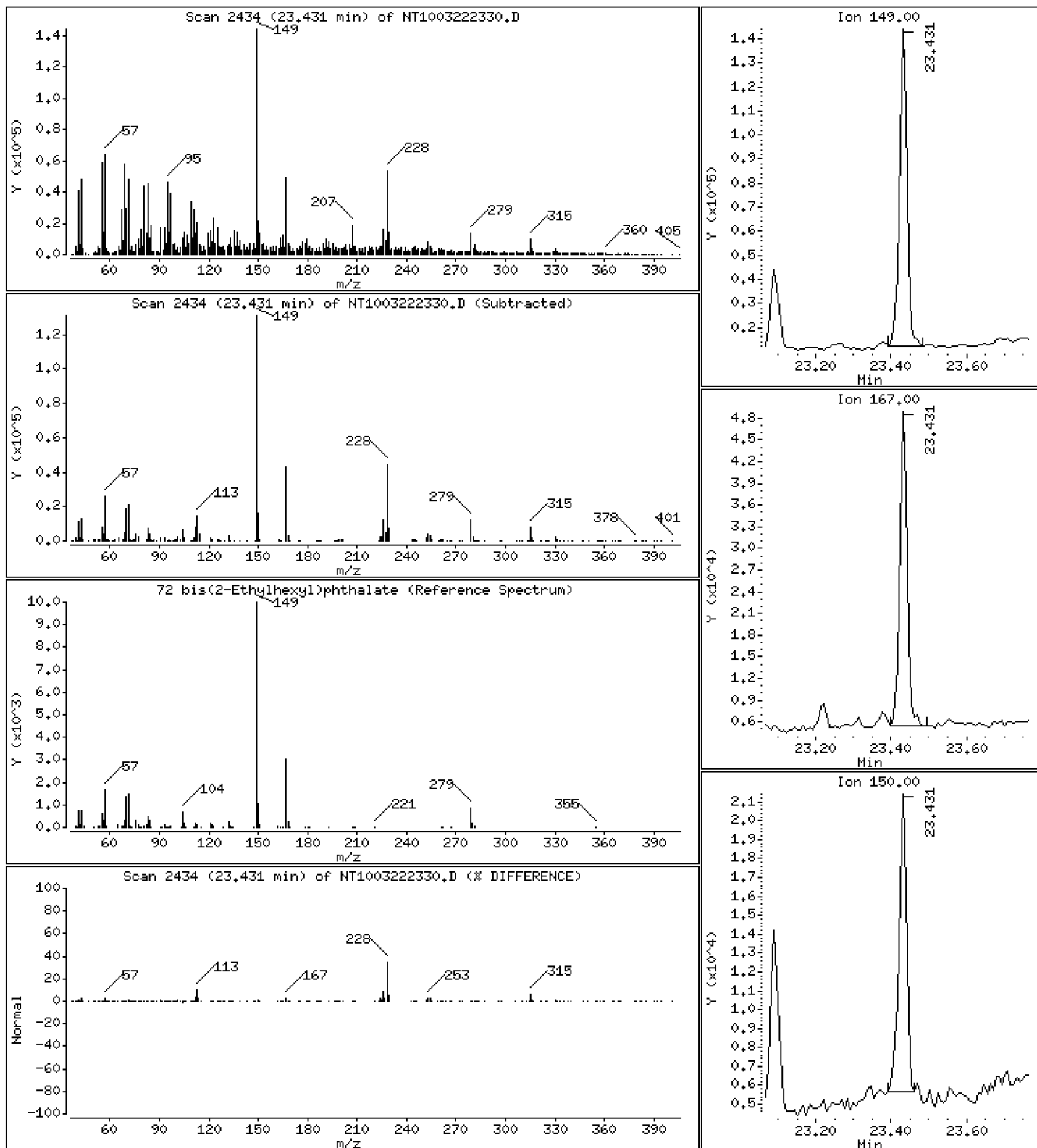
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 1,541 ug/mL



Date : 23-MAR-2023 11:27

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-02RE1

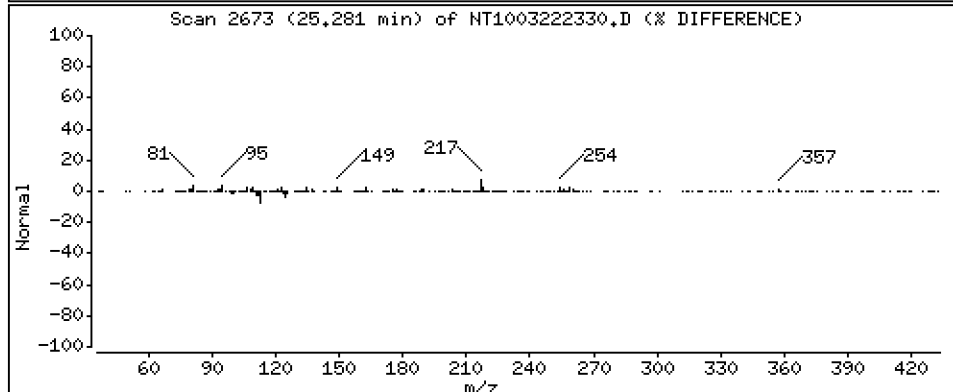
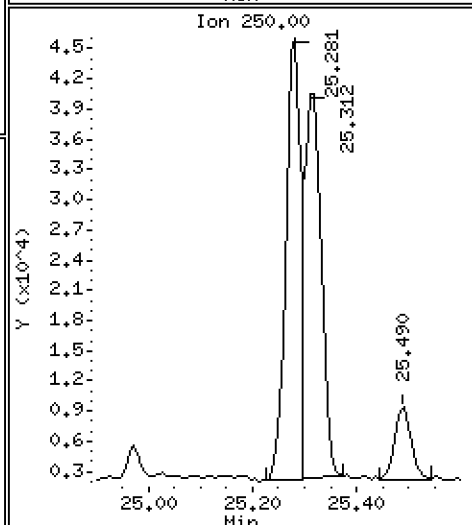
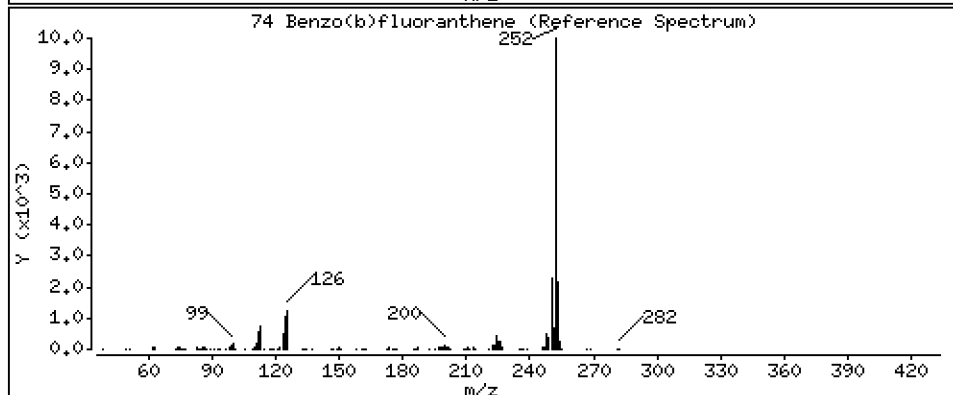
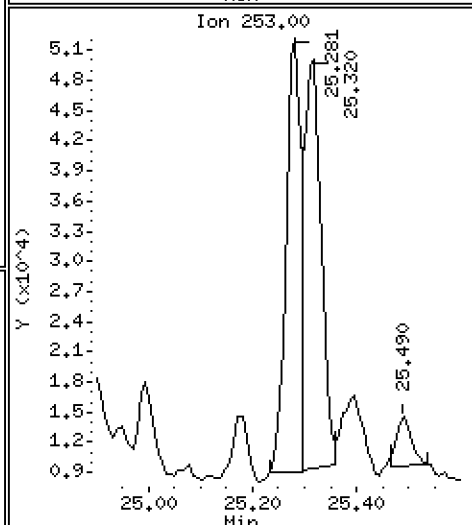
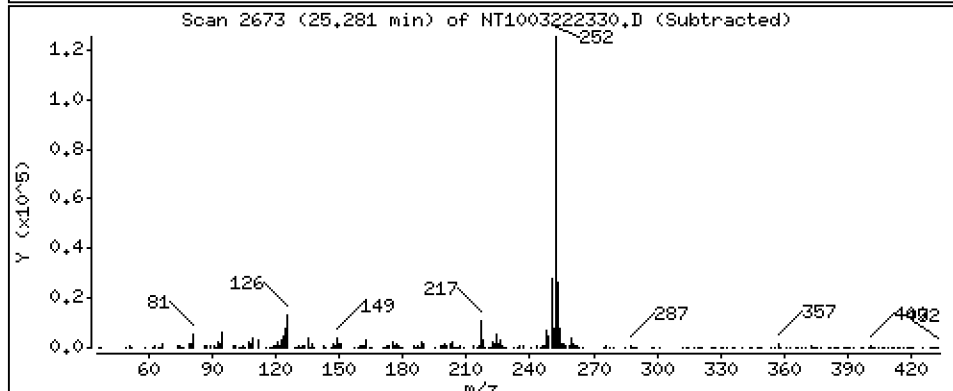
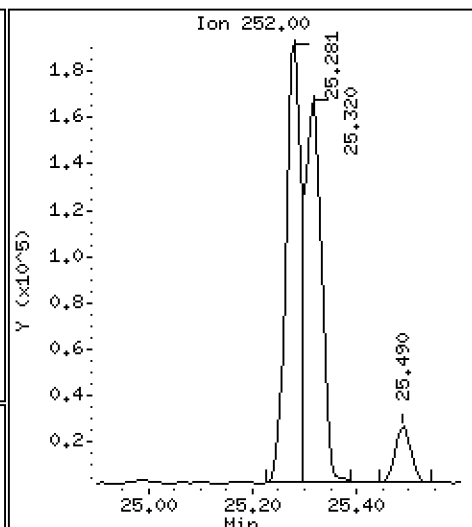
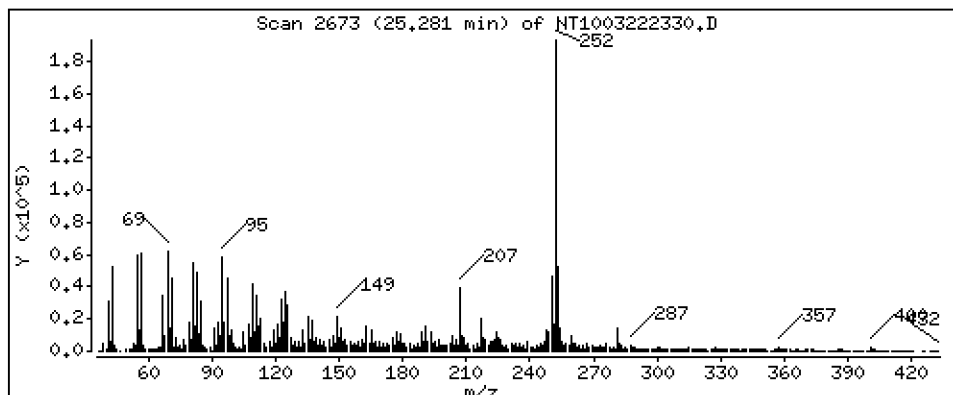
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 2,297 ug/mL



Date : 23-MAR-2023 11:27

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-02RE1

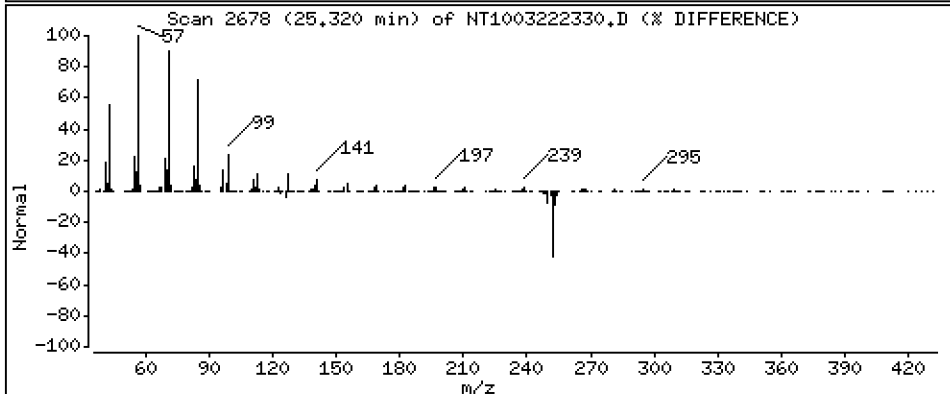
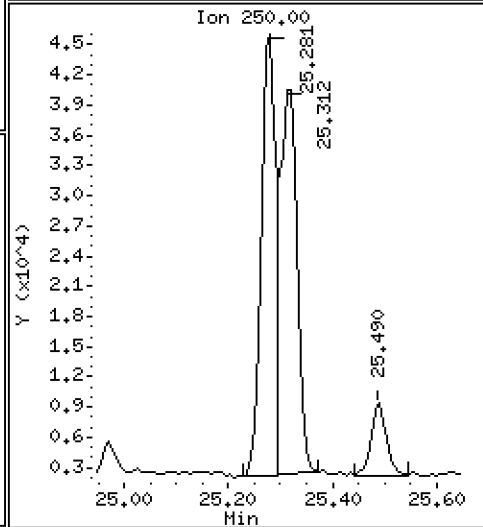
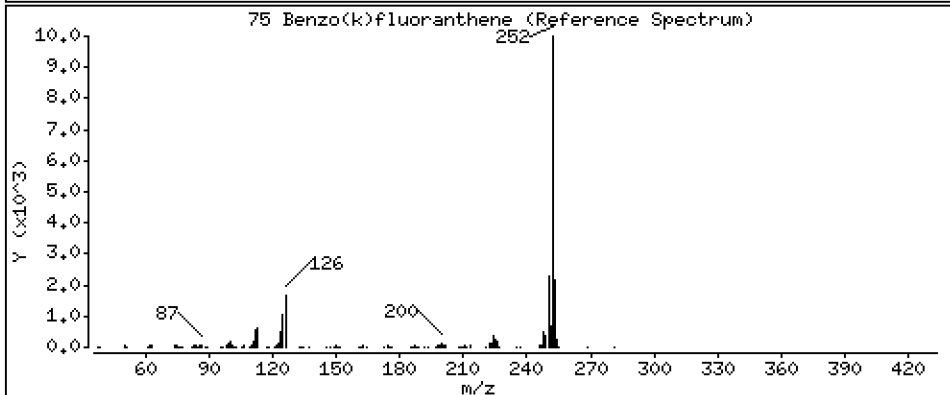
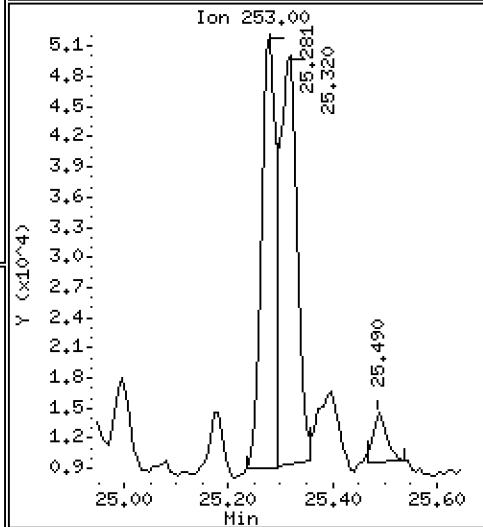
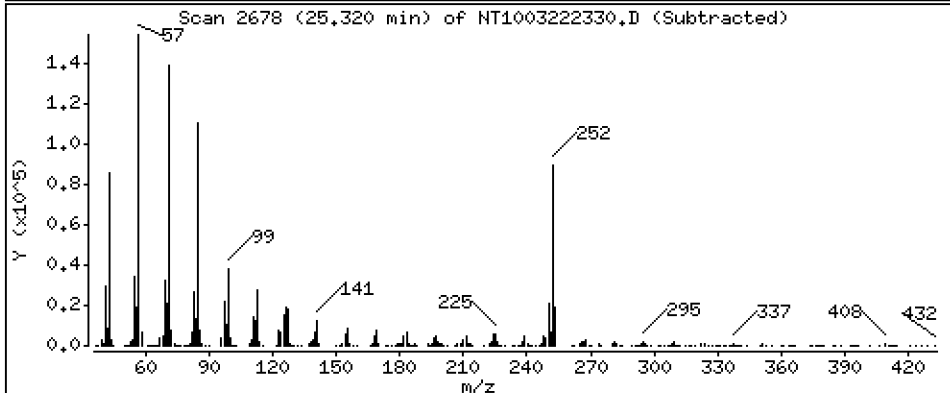
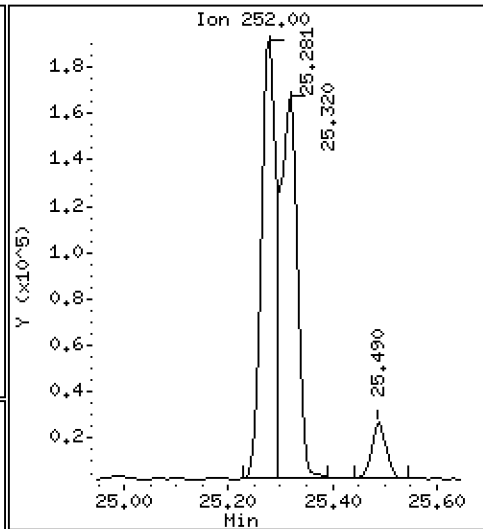
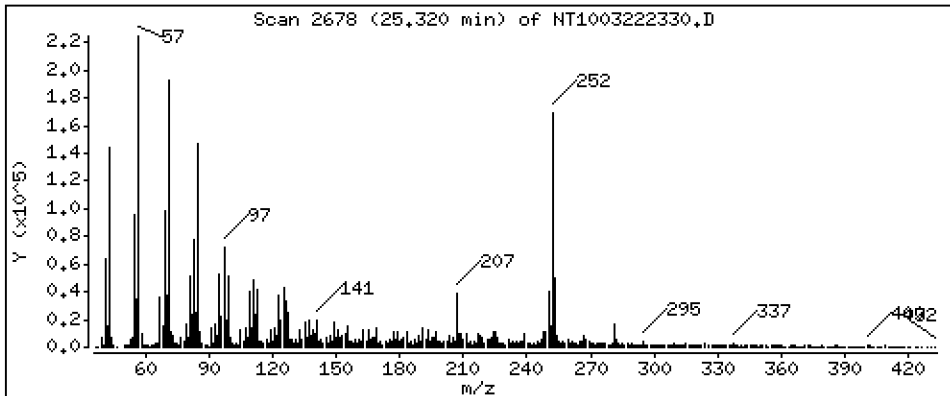
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 2,193 ug/mL



Date : 23-MAR-2023 11:27

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-02RE1

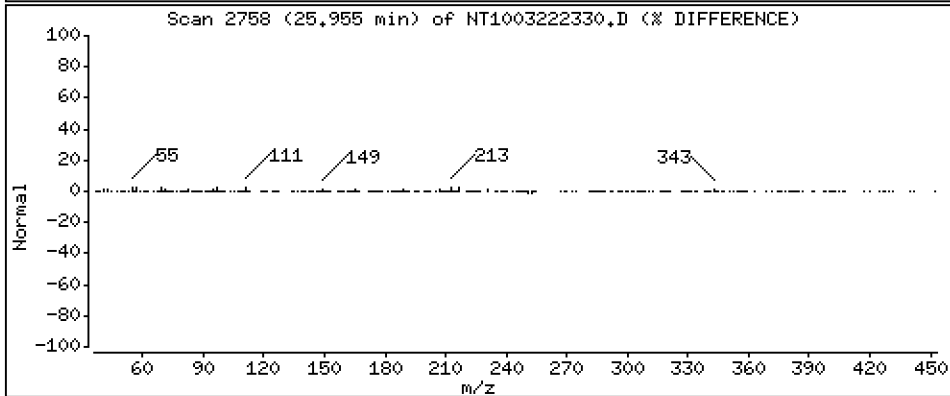
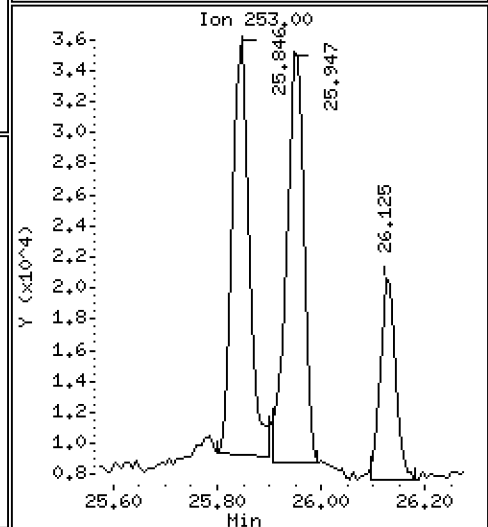
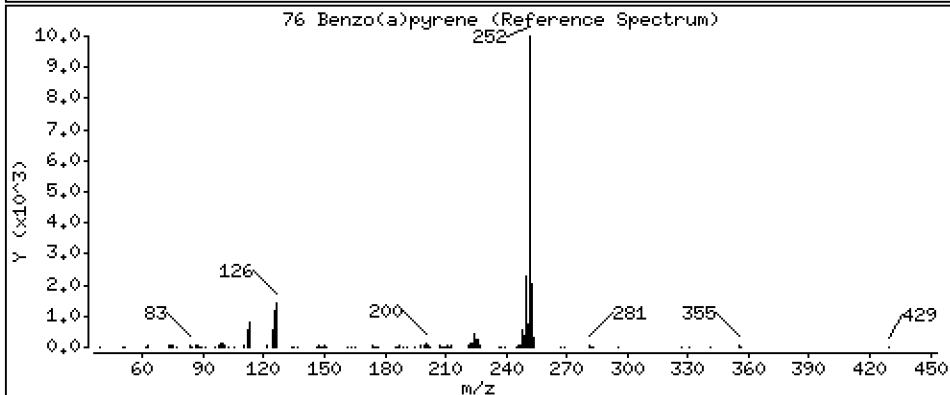
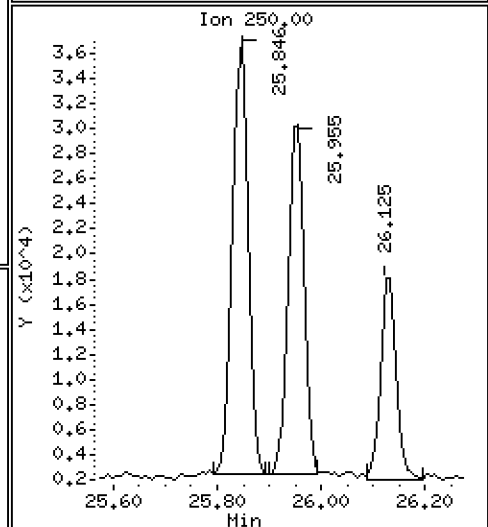
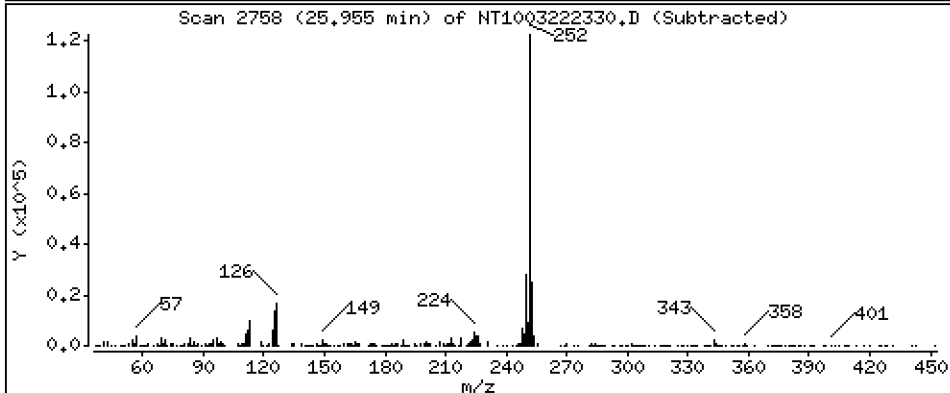
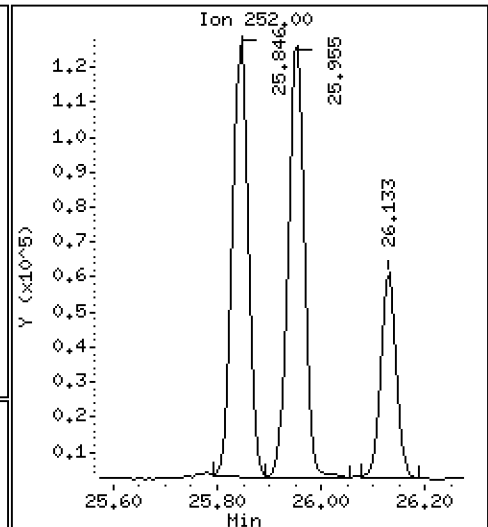
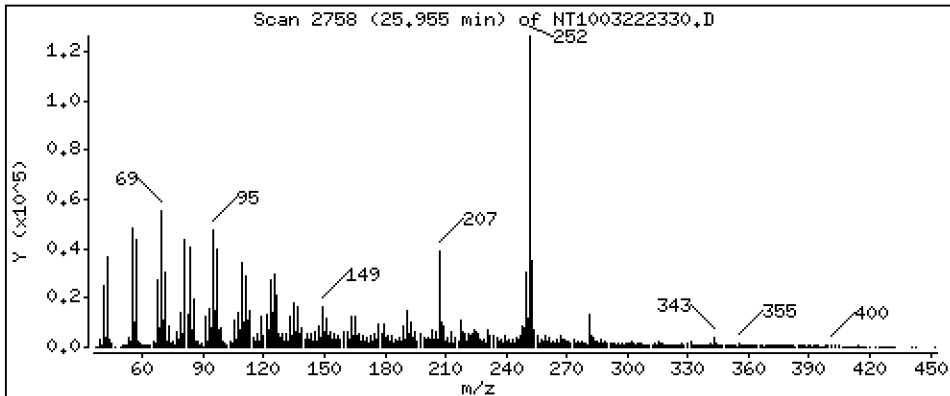
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 1,819 ug/mL



Date : 23-MAR-2023 11:27

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-02RE1

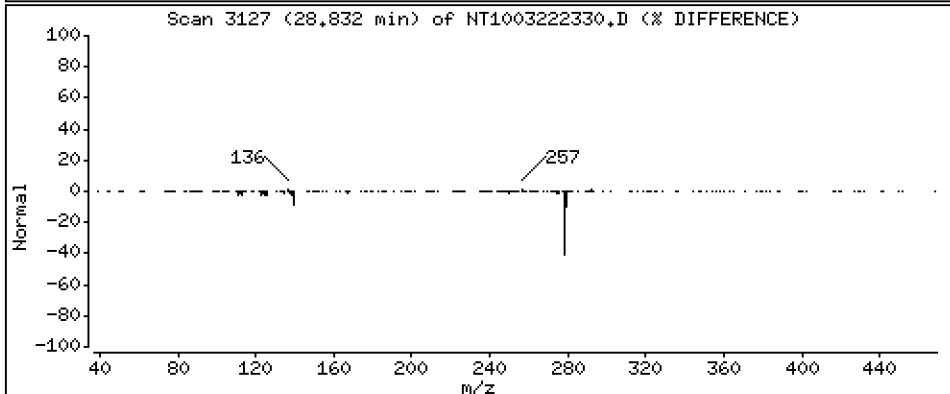
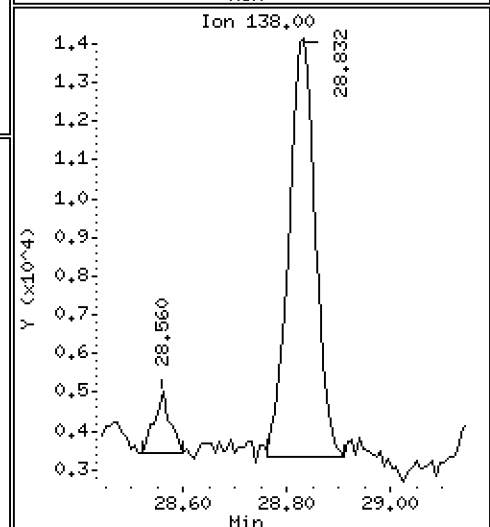
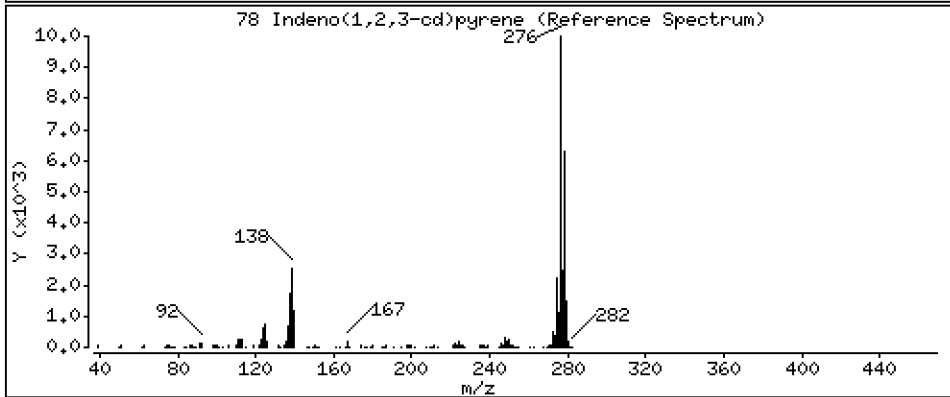
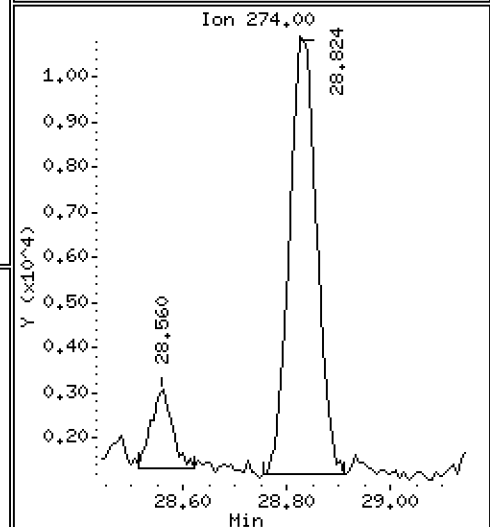
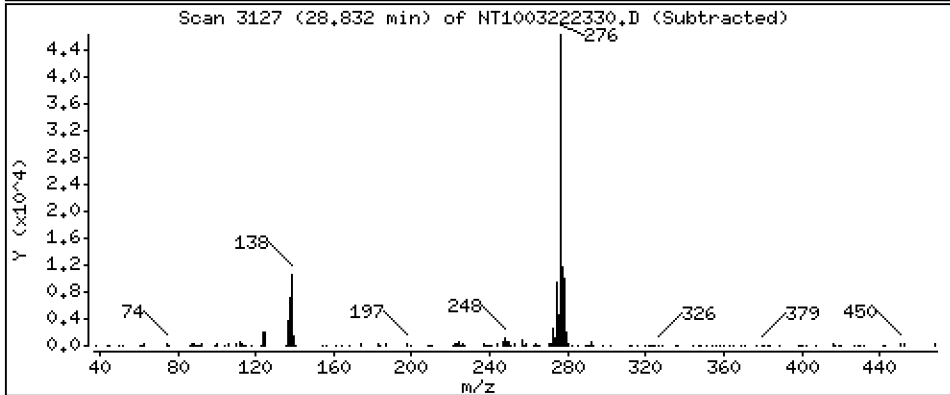
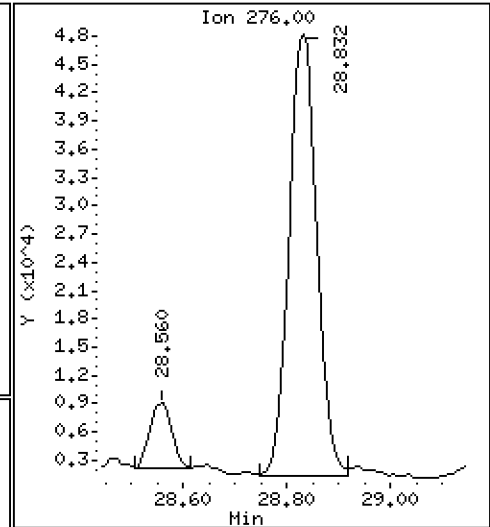
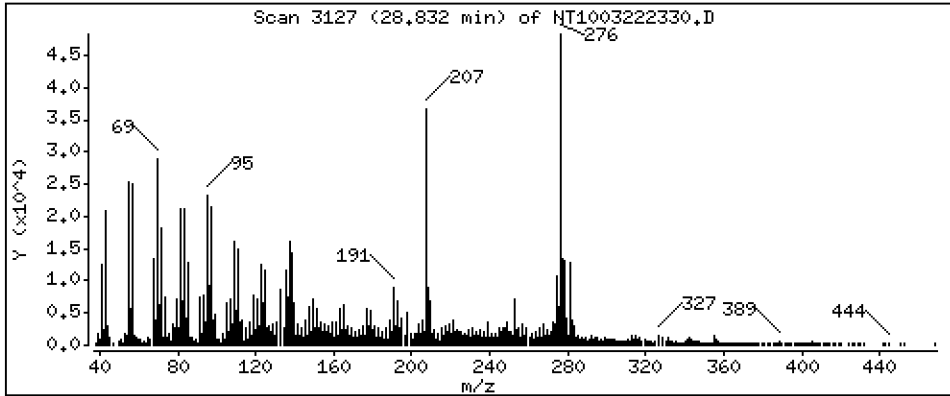
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 0,8995 ug/mL



Date : 23-MAR-2023 11:27

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-02RE1

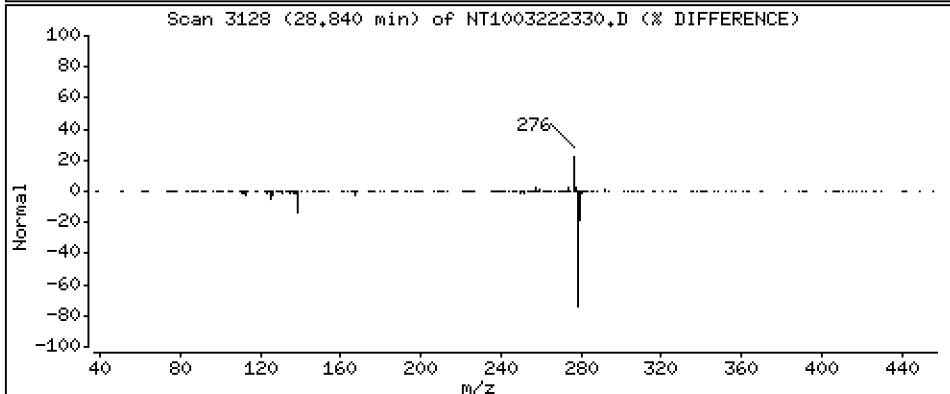
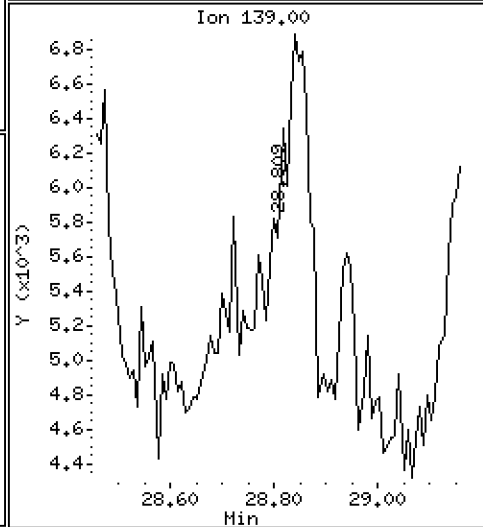
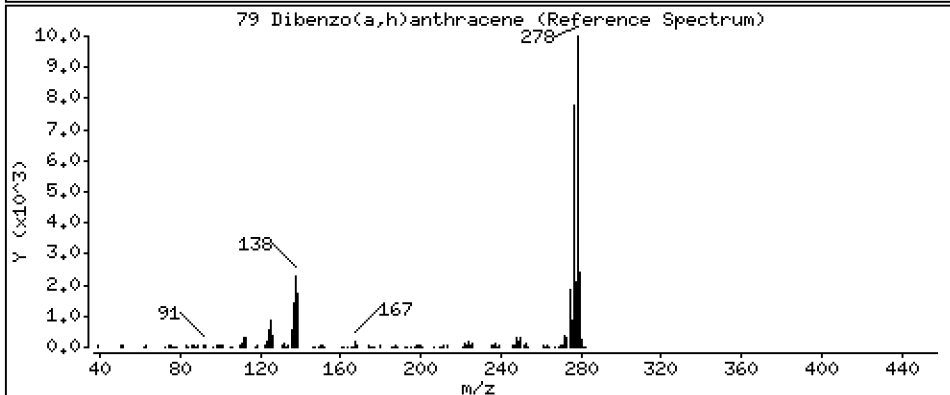
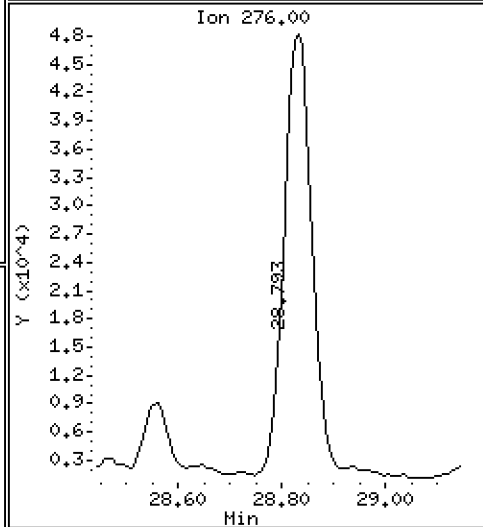
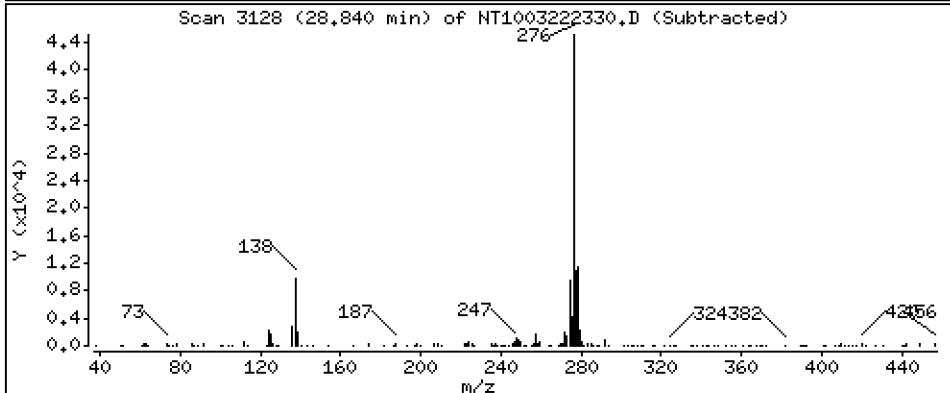
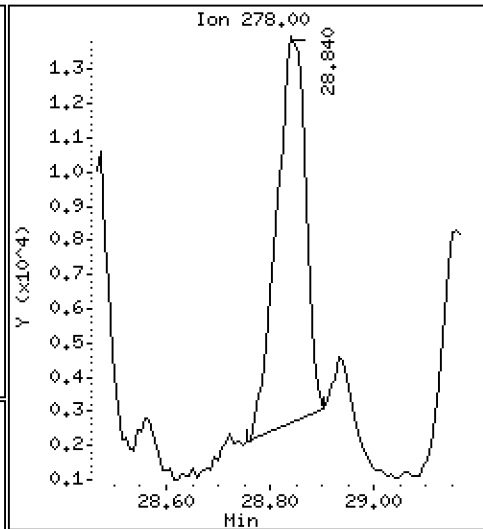
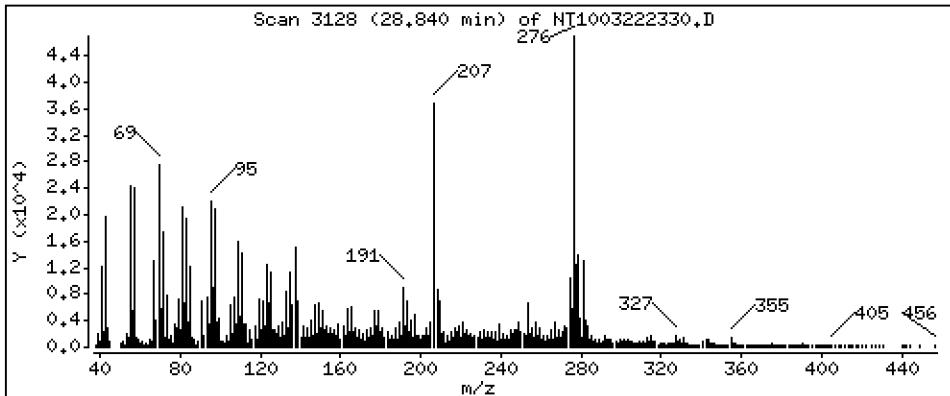
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

79 Dibenzo(a,h)anthracene

Concentration: 0.2721 ug/mL



Date : 23-MAR-2023 11:27

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-02RE1

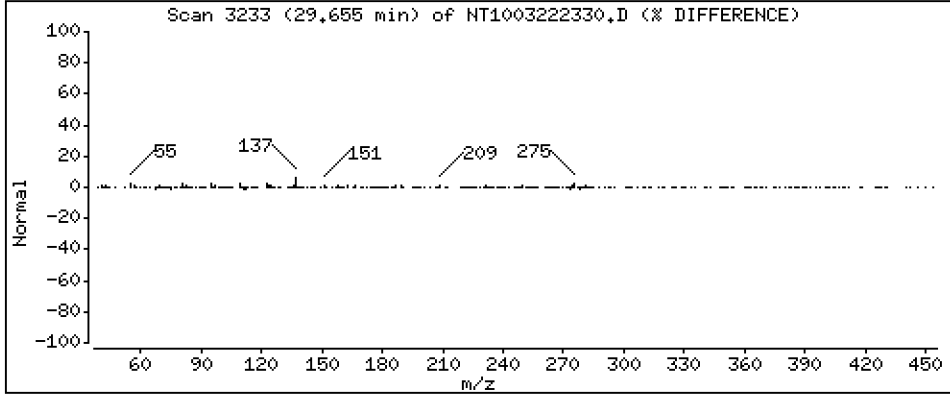
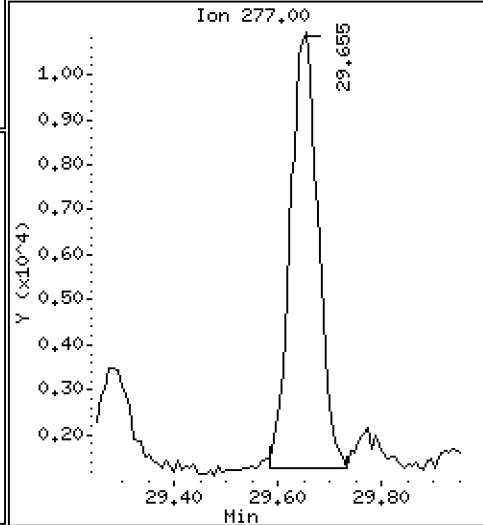
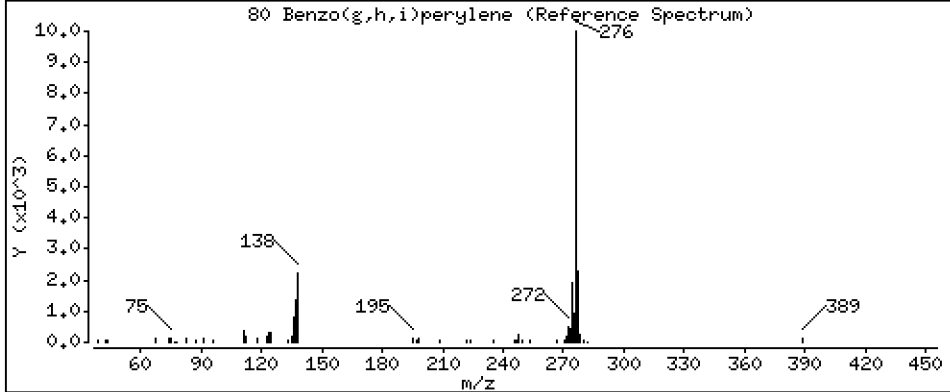
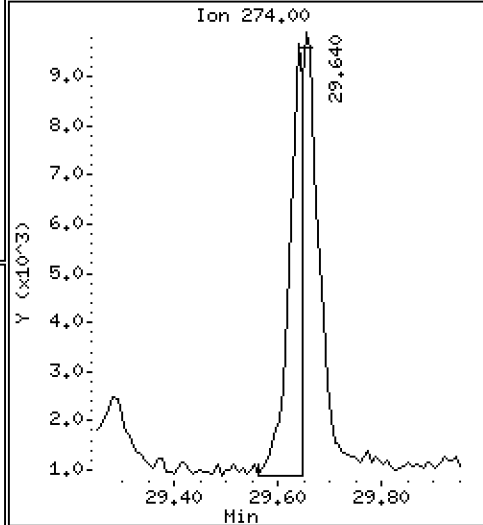
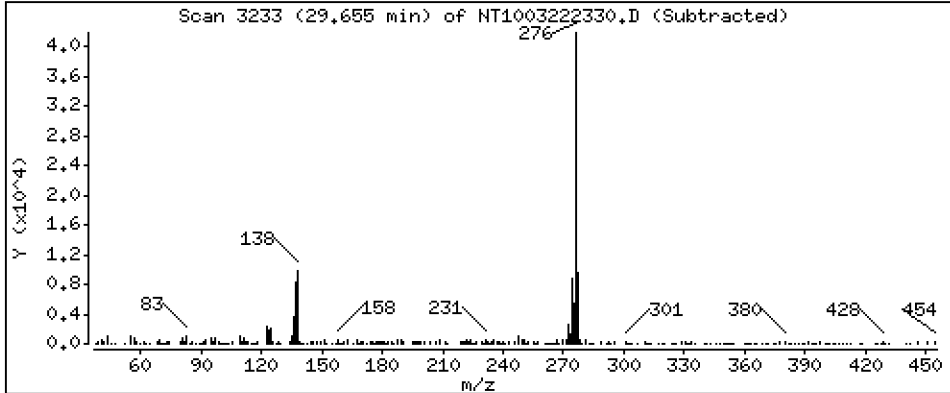
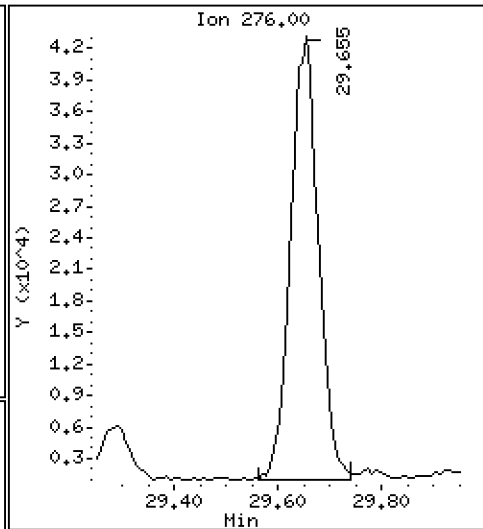
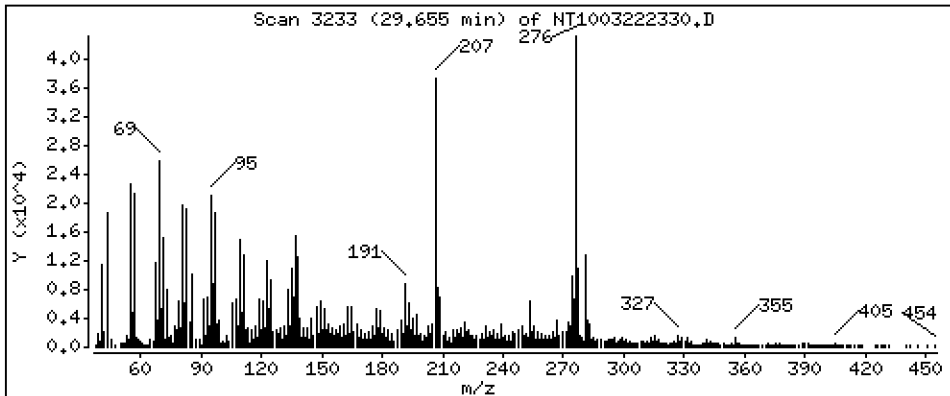
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 0,9419 ug/mL



Date : 23-MAR-2023 11:27

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-02RE1

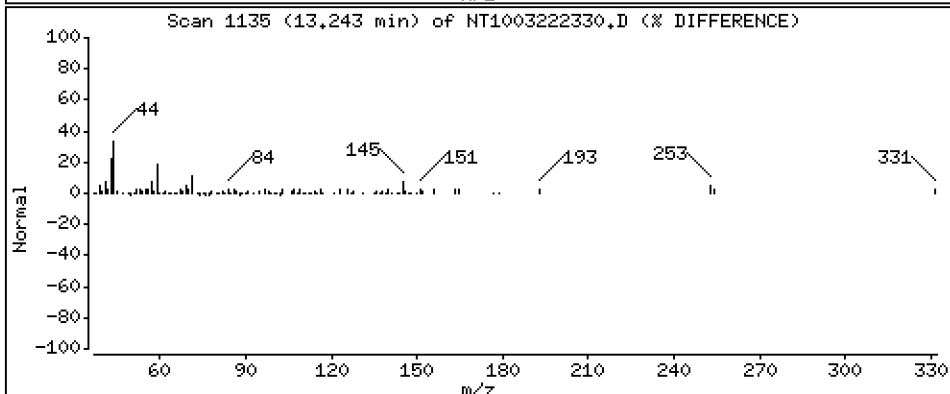
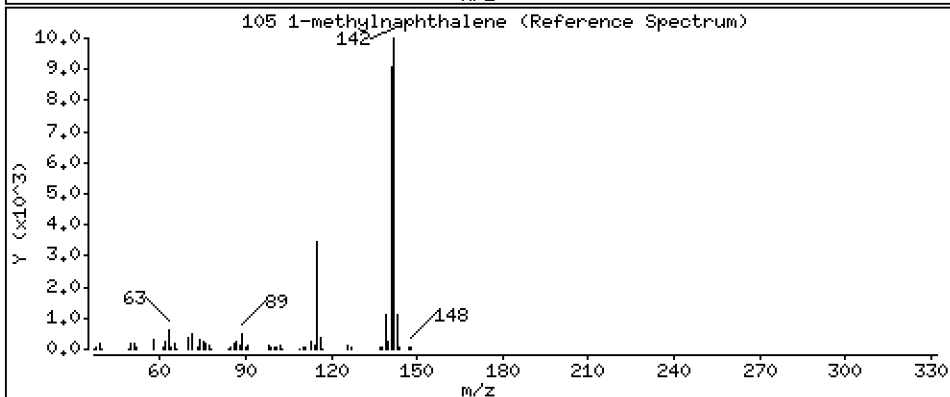
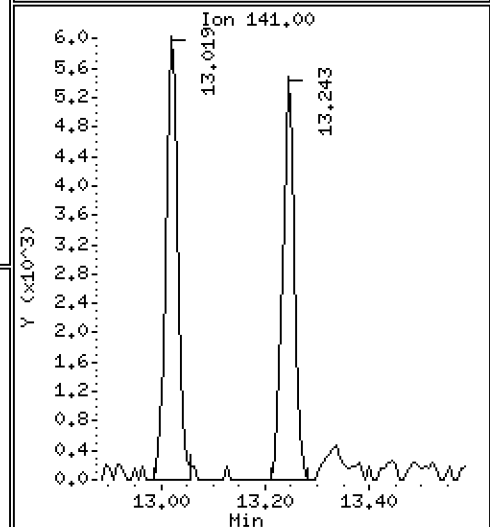
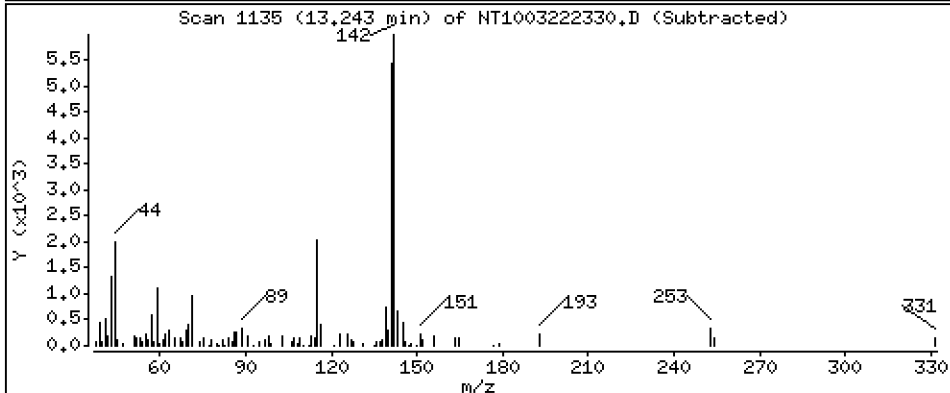
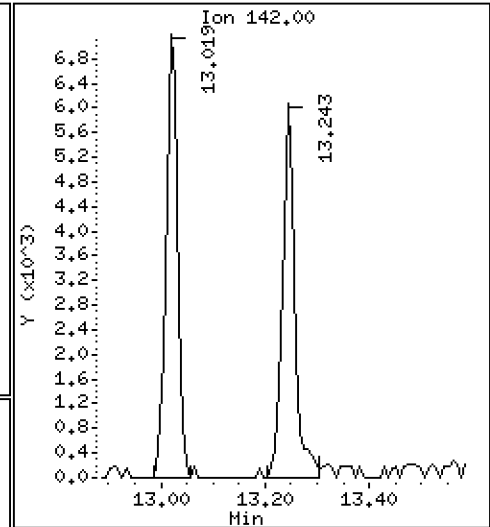
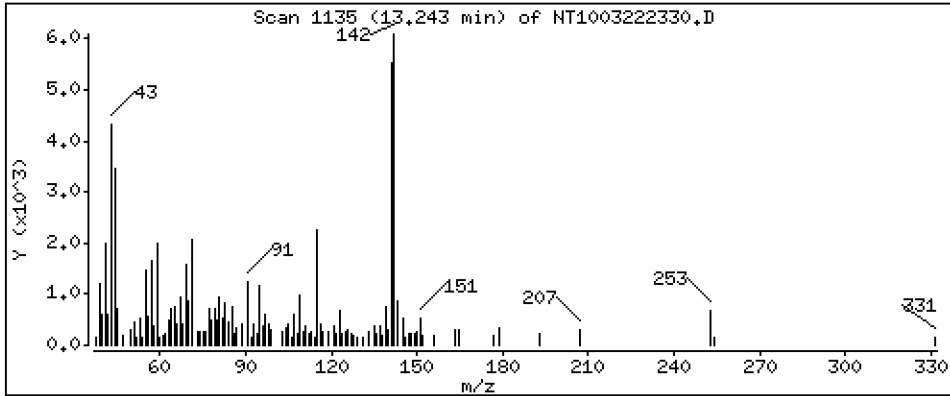
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

105 1-methylnaphthalene

Concentration: 0.1062 ug/mL



Date : 23-MAR-2023 11:27

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-02RE1

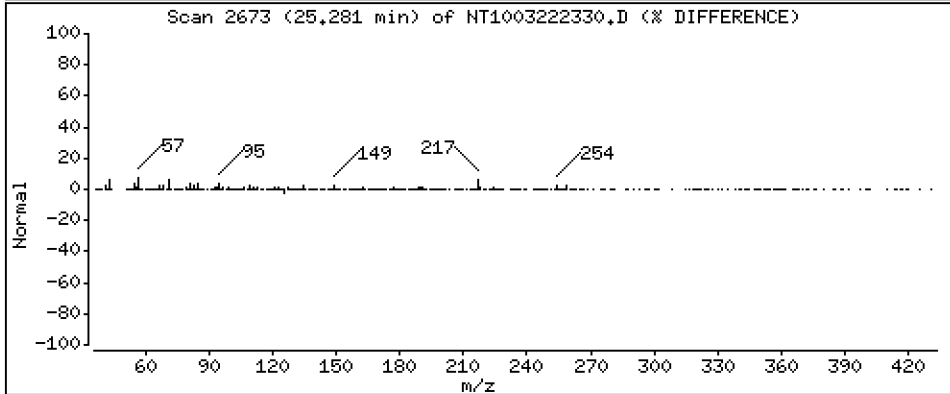
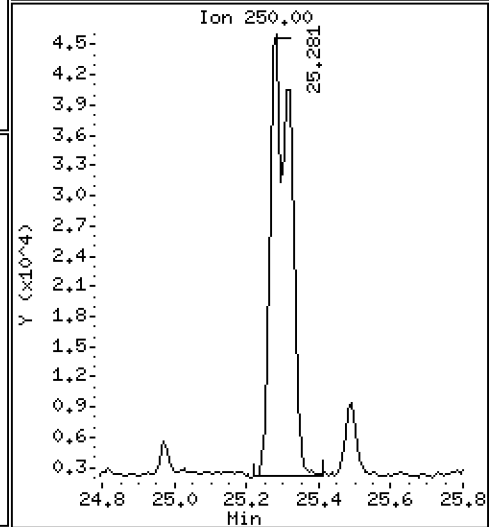
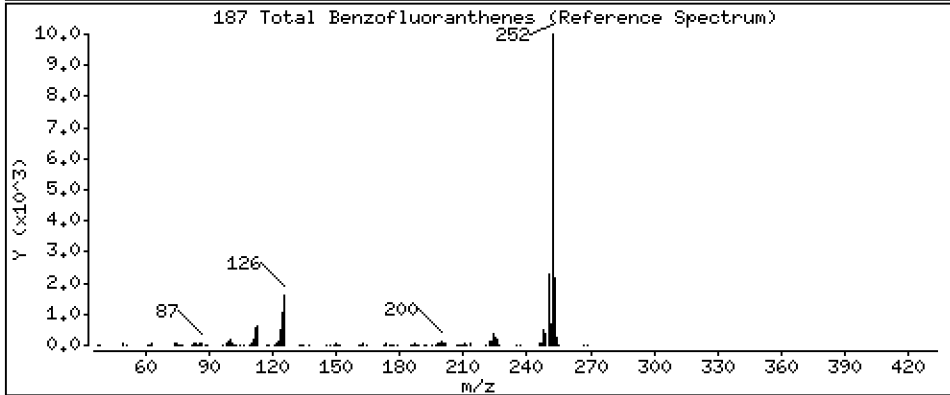
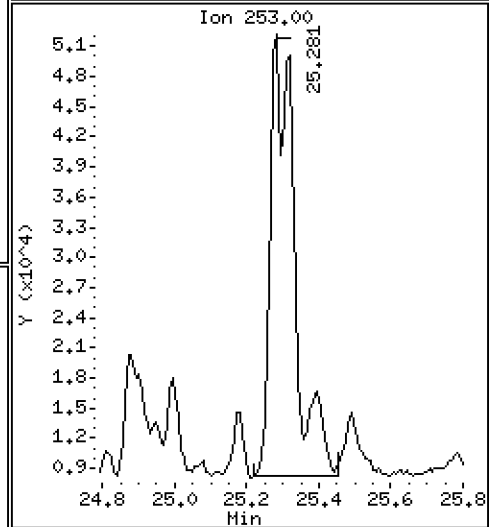
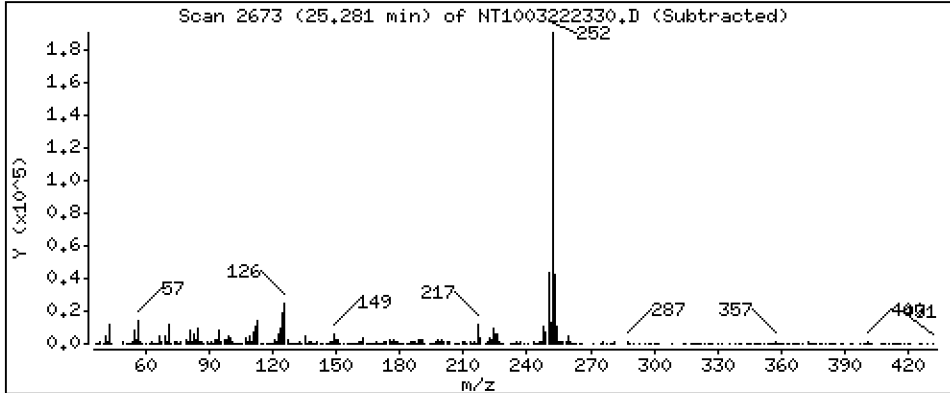
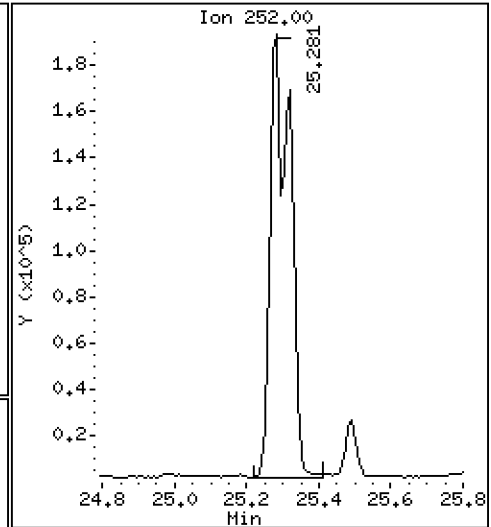
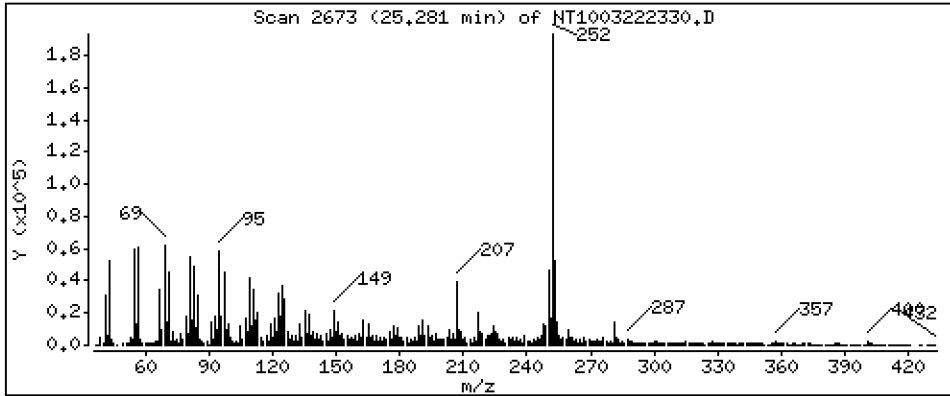
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 4,403 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230322.b\NT1003222330.D
 Lab Smp Id: 23A0180-02RE1
 Inj Date : 23-MAR-2023 11:27
 Operator : VTS
 Smp Info : 23A0180-02RE1
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt10.i\20230322.b\ABN.m
 Meth Date : 25-Mar-2023 10:11 van
 Cal Date : 16-MAR-2023 00:22
 Als bottle: 25
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: VANS-201906

Inst ID: nt10.i

Quant Type: ISTD
 Cal File: NT10031508.D

Compound Sublist: ICAL.sub

| Compounds | QUANT | SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|---------------------------------|-------|-----|------------------------|--------|---------|----------|----------------|------------|
| | | | | | | | ON-COLUMN | FINAL |
| | MASS | | | | | | (ug/mL) | (ug/mL) |
| \$ 1 2-Fluorophenol | 112 | | 6.866 | 6.851 | (0.756) | 252635 | 5.63505 | 5.635 |
| \$ 2 Phenol-d5 | 99 | | 8.458 | 8.450 | (0.931) | 340337 | 5.78667 | 5.787 |
| 3 Phenol | 94 | | 8.481 | 8.474 | (0.934) | 55855 | 0.91390 | 0.9139 |
| \$ 5 2-Chlorophenol-d4 | 132 | | 8.728 | 8.721 | (0.961) | 310239 | 6.17723 | 6.177 |
| 4 Bis(2-Chloroethyl)ether | 93 | | Compound Not Detected. | | | | | |
| 6 2-Chlorophenol | 128 | | Compound Not Detected. | | | | | |
| 7 1,3-Dichlorobenzene | 146 | | Compound Not Detected. | | | | | |
| * 8 1,4-Dichlorobenzene-d4 | 152 | | 9.084 | 9.085 | (1.000) | 148251 | 4.00000 | |
| 9 1,4-Dichlorobenzene | 146 | | Compound Not Detected. | | | | | |
| \$ 10 1,2-Dichlorobenzene-d4 | 152 | | 9.449 | 9.441 | (1.040) | 134317 | 3.72401 | 3.724 |
| 12 1,2-Dichlorobenzene | 146 | | Compound Not Detected. | | | | | |
| 11 Benzyl alcohol | 108 | | 9.364 | 9.356 | (1.031) | 2703 | 0.09423 | 0.09423 |
| 14 2,2'-oxybis(1-Chloropropane) | 121 | | Compound Not Detected. | | | | | |
| 13 2-Methylphenol | 108 | | Compound Not Detected. | | | | | |
| 17 Hexachloroethane | 117 | | Compound Not Detected. | | | | | |
| 16 N-Nitroso-di-n-propylamine | 70 | | Compound Not Detected. | | | | | |
| 15 4-Methylphenol | 108 | | 9.868 | 9.861 | (1.086) | 4223 | 0.08996 | 0.08996 |
| \$ 18 Nitrobenzene-d5 | 82 | | 10.187 | 10.179 | (0.880) | 206809 | 3.84832 | 3.848 |
| 19 Nitrobenzene | 77 | | Compound Not Detected. | | | | | |
| 20 Isophorone | 82 | | Compound Not Detected. | | | | | |
| 21 2-Nitrophenol | 139 | | Compound Not Detected. | | | | | |
| 22 2,4-Dimethylphenol | 107 | | Compound Not Detected. | | | | | |
| 23 Bis(2-Chloroethoxy)methane | 93 | | Compound Not Detected. | | | | | |
| 24 Benzoic acid | 105 | | 11.020 | 11.105 | (0.952) | 9963 | 0.37020 | 0.3702 (M) |
| 25 2,4-Dichlorophenol | 162 | | Compound Not Detected. | | | | | |
| 26 1,2,4-Trichlorobenzene | 180 | | Compound Not Detected. | | | | | |
| * 27 Naphthalene-d8 | 136 | | 11.580 | 11.572 | (1.000) | 532416 | 4.00000 | |
| 28 Naphthalene | 128 | | 11.618 | 11.618 | (1.003) | 15211 | 0.10785 | 0.1078 |
| 29 4-Chloroaniline | 127 | | Compound Not Detected. | | | | | |
| 30 Hexachlorobutadiene | 225 | | Compound Not Detected. | | | | | |
| 31 4-Chloro-3-methylphenol | 107 | | Compound Not Detected. | | | | | |
| 32 2-Methylnaphthalene | 142 | | 13.018 | 13.018 | (1.124) | 11380 | 0.11180 | 0.1118 |
| 33 Hexachlorocyclopentadiene | 237 | | Compound Not Detected. | | | | | |

| Compounds | QUANT MASS | SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|-----------------------------------|---------------|-----|--------|--------|---------|------------------------|----------------------|------------------|
| | | | | | | | ON-COLUMN (ug/mL) | FINAL (ug/mL) |
| 34 2,4,6-Trichlorophenol | 196 | | | | | Compound Not Detected. | | |
| 35 2,4,5-Trichlorophenol | 196 | | | | | Compound Not Detected. | | |
| \$ 36 2-Fluorobiphenyl | 172 | | 13.808 | 13.800 | (0.908) | 493432 | 4.20964 | 4.210 |
| 37 2-Chloronaphthalene | 162 | | | | | Compound Not Detected. | | |
| 38 2-Nitroaniline | 65 | | | | | Compound Not Detected. | | |
| 39 Dimethylphthalate | 163 | | 14.713 | 14.706 | (0.967) | 13070 | 0.13578 | 0.1358 |
| 40 Acenaphthylene | 152 | | 14.891 | 14.884 | (0.979) | 17769 | 0.12015 | 0.1201 |
| 41 2,6-Dinitrotoluene | 165 | | | | | Compound Not Detected. | | |
| * 42 Acenaphthene-d10 | 164 | | 15.208 | 15.201 | (1.000) | 296317 | 4.00000 | |
| 43 3-Nitroaniline | 138 | | | | | Compound Not Detected. | | |
| 44 Acenaphthene | 153 | | 15.270 | 15.263 | (1.004) | 7296 | 0.07986 | 0.07986 |
| 45 2,4-Dinitrophenol | 184 | | | | | Compound Not Detected. | | |
| 46 Dibenzofuran | 168 | | 15.603 | 15.595 | (1.026) | 11463 | 0.08508 | 0.08508 |
| 47 4-Nitrophenol | 109 | | | | | Compound Not Detected. | | |
| 48 2,4-Dinitrotoluene | 165 | | | | | Compound Not Detected. | | |
| 50 Diethylphthalate | 149 | | 16.175 | 16.175 | (1.064) | 17745 | 0.18788 | 0.1879 |
| 49 Fluorene | 166 | | 16.322 | 16.314 | (1.073) | 12458 | 0.11753 | 0.1175 |
| 51 4-Chlorophenyl-phenylether | 204 | | | | | Compound Not Detected. | | |
| 52 4-Nitroaniline | 138 | | | | | Compound Not Detected. | | |
| 53 4,6-Dinitro-2-methylphenol | 198 | | | | | Compound Not Detected. | | |
| 54 N-Nitrosodiphenylamine | 169 | | | | | Compound Not Detected. | | |
| \$ 55 2,4,6-Tribromophenol | 330 | | 16.861 | 16.846 | (1.109) | 119814 | 8.69299 | 8.693 |
| 56 4-Bromophenyl-phenylether | 248 | | | | | Compound Not Detected. | | |
| 57 Hexachlorobenzene | 284 | | | | | Compound Not Detected. | | |
| 58 Pentachlorophenol | 266 | | | | | Compound Not Detected. | | |
| * 59 Phenanthrene-d10 | 188 | | 18.268 | 18.260 | (1.000) | 570943 | 4.00000 | |
| 60 Phenanthrene | 178 | | 18.315 | 18.307 | (1.003) | 134120 | 0.86149 | 0.8615 |
| 61 Anthracene | 178 | | 18.407 | 18.400 | (1.008) | 57503 | 0.38504 | 0.3850 |
| 62 Carbazole | 167 | | 18.748 | 18.732 | (1.026) | 22632 | 0.16912 | 0.1691 |
| 63 Di-n-butylphthalate | 149 | | 19.568 | 19.545 | (1.071) | 15789 | 0.08774 | 0.08774 |
| 64 Fluoranthene | 202 | | 20.775 | 20.713 | (0.889) | 320938 | 1.56780 | 1.568 |
| 65 Pyrene | 202 | | 21.177 | 21.139 | (0.906) | 728734 | 3.47029 | 3.470 |
| \$ 66 Terphenyl-d14 | 244 | | 21.456 | 21.433 | (0.918) | 631454 | 4.00415 | 4.004 |
| 67 Butylbenzylphthalate | 149 | | 22.385 | 22.377 | (0.958) | 14443 | 0.19585 | 0.1958 |
| 68 Benzo(a)anthracene | 228 | | 23.337 | 23.322 | (0.999) | 196460 | 1.09253 | 1.093 |
| * 69 Chrysene-d12 | 240 | | 23.368 | 23.353 | (1.000) | 509451 | 4.00000 | |
| 70 3,3'-Dichlorobenzidine | 252 | | | | | Compound Not Detected. | | |
| 71 Chrysene | 228 | | 23.415 | 23.399 | (1.002) | 284774 | 1.62097 | 1.621 |
| 72 bis(2-Ethylhexyl)phthalate | 149 | | 23.430 | 23.415 | (0.959) | 185794 | 1.54102 | 1.541 |
| * 134 Di-n-octylphthalate-d4 | 153 | | 24.437 | 24.421 | (1.000) | 823614 | 4.00000 | |
| 73 Di-n-octylphthalate | 149 | | | | | Compound Not Detected. | | |
| 74 Benzo(b)fluoranthene | 252 | | 25.281 | 25.250 | (0.969) | 396211 | 2.29742 | 2.297 |
| 75 Benzo(k)fluoranthene | 252 | | 25.319 | 25.296 | (0.971) | 384118 | 2.19348 | 2.193 |
| 76 Benzo(a)pyrene | 252 | | 25.954 | 25.923 | (0.995) | 280488 | 1.81913 | 1.819 |
| * 77 Perylene-d12 | 264 | | 26.078 | 26.040 | (1.000) | 532034 | 4.00000 | |
| 78 Indeno(1,2,3-cd)pyrene | 276 | | 28.831 | 28.793 | (1.106) | 176452 | 0.89951 | 0.8995 |
| 79 Dibenzo(a,h)anthracene | 278 | | 28.839 | 28.816 | (1.106) | 44310 | 0.27207 | 0.2721 (M) |
| 80 Benzo(g,h,i)perylene | 276 | | 29.655 | 29.601 | (1.137) | 159897 | 0.94188 | 0.9419 |
| 90 N-Nitrosodimethylamine | 74 | | | | | Compound Not Detected. | | |
| 91 Aniline | 93 | | | | | Compound Not Detected. | | |
| 93 Benzidine | 184 | | | | | Compound Not Detected. | | |
| 103 Pyridine | 79 | | | | | Compound Not Detected. | | |
| 105 1-methylnaphthalene | 142 | | 13.243 | 13.235 | (1.144) | 9900 | 0.10616 | 0.1062 |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77 | | | | | Compound Not Detected. | | |

| Compounds | QUANT MASS | SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | | |
|-------------------------------|---------------|-----|------------------------|--------|---------|----------|----------------------|------------------|--|
| | | | | | | | ON-COLUMN (ug/mL) | FINAL (ug/mL) | |
| 187 Total Benzofluoranthenes | 252 | | 25.281 | 25.296 | (0.969) | 733242 | 4.40350 | 4.403 | |
| 120 2,3,4,6-Tetrachlorophenol | 232 | | Compound Not Detected. | | | | | | |

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 23-MAR-2023
 Lab File ID: NT1003222330.D Calibration Time: 03:15
 Lab Smp Id: 23A0180-02RE1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt10.i\20230322.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 137603 | 68802 | 275206 | 148251 | 7.74 |
| 27 Naphthalene-d8 | 494588 | 247294 | 989176 | 532416 | 7.65 |
| 42 Acenaphthene-d10 | 278674 | 139337 | 557348 | 296317 | 6.33 |
| 59 Phenanthrene-d10 | 509229 | 254615 | 1018458 | 570943 | 12.12 |
| 69 Chrysene-d12 | 462271 | 231136 | 924542 | 509451 | 10.21 |
| 134 Di-n-octylphthala | 782572 | 391286 | 1565144 | 823614 | 5.24 |
| 77 Perylene-d12 | 551153 | 275577 | 1102306 | 532034 | -3.47 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 9.09 | 8.59 | 9.59 | 9.08 | -0.00 |
| 27 Naphthalene-d8 | 11.57 | 11.07 | 12.07 | 11.58 | 0.07 |
| 42 Acenaphthene-d10 | 15.20 | 14.70 | 15.70 | 15.21 | 0.05 |
| 59 Phenanthrene-d10 | 18.26 | 17.76 | 18.76 | 18.27 | 0.04 |
| 69 Chrysene-d12 | 23.35 | 22.85 | 23.85 | 23.37 | 0.07 |
| 134 Di-n-octylphthala | 24.42 | 23.92 | 24.92 | 24.44 | 0.06 |
| 77 Perylene-d12 | 26.04 | 25.54 | 26.54 | 26.08 | 0.15 |

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

REVIEW SUMMARY FOR FILE - NT1003222330.D

Lab ID: 23A0180-02RE1
nt10.i, 20230322.b\ABN.m, 23-MAR-2023 11:27

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

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

RRT check based on Ccal File: NT1003222317.D

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

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

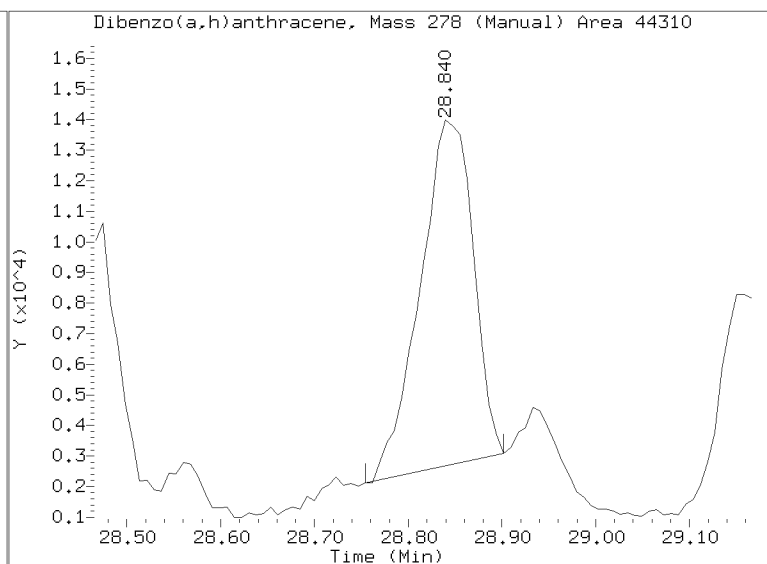
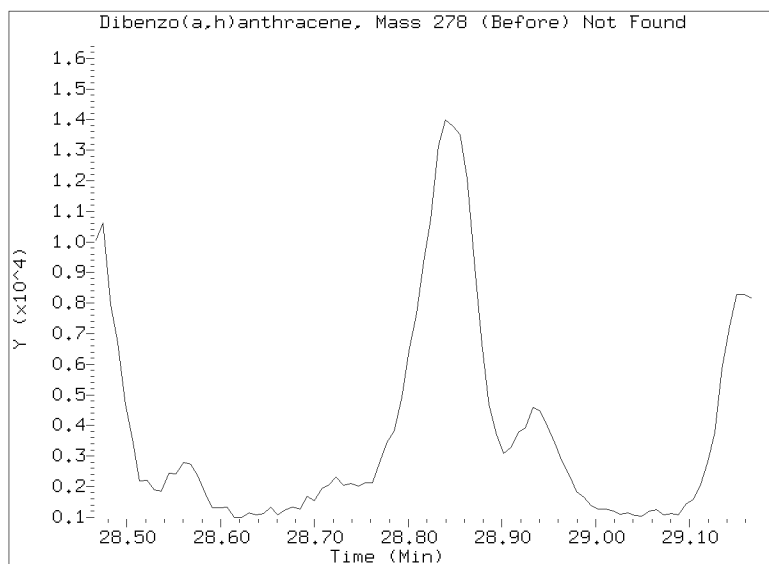
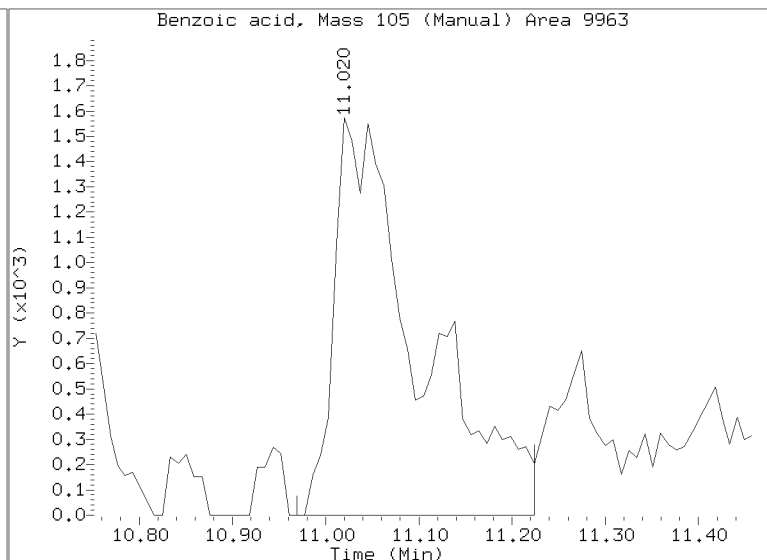
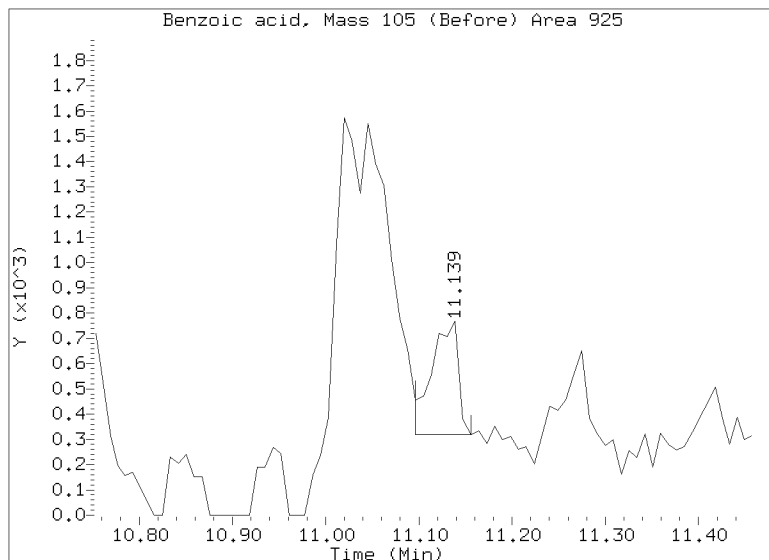
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230322.b/NT1003222330.D

Injection Date: 23-MAR-2023 11:27

Lab ID: 23A0180-02RE1 Client ID:

Report Date: 03/25/2023 10:17





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

Laboratory: Analytical Resources, LLC

Client: Anchor OEA, LLC

Project: AOC5 MR Phase 1

Matrix: Sediment

Laboratory ID: 23A0180-03RE1 A

SDG: 23A0180

Sampled: 01/10/23 08:33

Prepared: 03/17/23 11:16

File ID: NT1003222331.D

% Solids: 54.31

Preparation: EPA 3546 (Microwave)

Analyzed: 03/23/23 12:05

Batch: BLC0442

Sequence: SLC0397

Initial/Final: 18.41 g Wet / 1 mL

Instrument: NT10

Column: ZB-5MSi

Calibration: GC00046

Cleanups: GPC

| CAS NO. | COMPOUND | DILUTION | CONC: (ug/kg dry) | Q | DL | RL |
|----------|-----------------------------|----------|----------------------|---|------|------|
| 108-95-2 | Phenol | 1 | 169 | | 4.4 | 20.0 |
| 106-44-5 | 4-Methylphenol | 1 | 16.6 | J | 7.4 | 20.0 |
| 91-20-3 | Naphthalene | 1 | 10.5 | J | 4.2 | 20.0 |
| 91-57-6 | 2-Methylnaphthalene | 1 | 9.1 | J | 4.5 | 20.0 |
| 208-96-8 | Acenaphthylene | 1 | 11.8 | J | 6.2 | 20.0 |
| 131-11-3 | Dimethylphthalate | 1 | 8.0 | J | 4.4 | 20.0 |
| 83-32-9 | Acenaphthene | 1 | 7.4 | J | 5.2 | 20.0 |
| 132-64-9 | Dibenzofuran | 1 | 20.0 | U | 14.1 | 20.0 |
| 86-73-7 | Fluorene | 1 | 20.0 | U | 14.6 | 20.0 |
| 85-01-8 | Phenanthrene | 1 | 160 | | 8.7 | 20.0 |
| 120-12-7 | Anthracene | 1 | 59.1 | | 7.2 | 20.0 |
| 206-44-0 | Fluoranthene | 1 | 376 | | 6.1 | 20.0 |
| 129-00-0 | Pyrene | 1 | 394 | | 5.7 | 20.0 |
| 85-68-7 | Butylbenzylphthalate | 1 | 32.4 | | 9.4 | 20.0 |
| 56-55-3 | Benzo(a)anthracene | 1 | 239 | | 6.0 | 20.0 |
| 218-01-9 | Chrysene | 1 | 300 | | 6.1 | 20.0 |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 1 | 122 | | 5.5 | 50.0 |
| | Benzo(a)fluoranthene, Total | 1 | 575 | | 10.0 | 40.0 |
| 50-32-8 | Benzo(a)pyrene | 1 | 264 | | 4.2 | 20.0 |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 1 | 122 | | 14.7 | 20.0 |
| 53-70-3 | Dibenzo(a,h)anthracene | 1 | 49.9 | | 17.2 | 20.0 |
| 191-24-2 | Benzo(g,h,i)perylene | 1 | 123 | | 13.6 | 20.0 |

| SURROGATES | ADDED: (ug/kg dry) | FOUND: (ug/kg dry) | % REC | QC LIMITS | Q |
|------------------------|-----------------------|-----------------------|-------|-----------|---|
| 2-Fluorophenol | 750.11 | 570 | 76.0 | 27 - 120 | |
| Phenol-d5 | 750.11 | 586 | 78.1 | 29 - 120 | |
| 2-Chlorophenol-d4 | 750.11 | 627 | 83.6 | 31 - 120 | |
| 1,2-Dichlorobenzene-d4 | 500.08 | 377 | 75.4 | 32 - 120 | |
| Nitrobenzene-d5 | 500.08 | 386 | 77.1 | 30 - 120 | |
| 2-Fluorobiphenyl | 500.08 | 420 | 83.9 | 35 - 120 | |



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

Laboratory: Analytical Resources, LLC

Client: Anchor OEA, LLC

Project: AOC5 MR Phase 1

Matrix: Sediment

Laboratory ID: 23A0180-03RE1 A

SDG: 23A0180

Sampled: 01/10/23 08:33

Prepared: 03/17/23 11:16

File ID: NT1003222331.D

% Solids: 54.31

Preparation: EPA 3546 (Microwave)

Analyzed: 03/23/23 12:05

Batch: BLC0442

Sequence: SLC0397

Initial/Final: 18.41 g Wet / 1 mL

Instrument: NT10

Column: ZB-5MSi

Calibration: GC00046

Cleanups: GPC

| SURROGATES | ADDED: (ug/kg dry) | FOUND: (ug/kg dry) | % REC | QC LIMITS | Q |
|----------------------|-----------------------|-----------------------|-------|-----------|---|
| 2,4,6-Tribromophenol | 750.11 | 874 | 117 | 24 - 134 | |
| p-Terphenyl-d14 | 500.08 | 413 | 82.5 | 37 - 120 | |

Data File: \\target\share\chem3\nt10.1\20230322.16\NT1003222331.D

Date: 23-MAR-2023 12:05

Client ID:

Sample Info: 23A0180-03REL

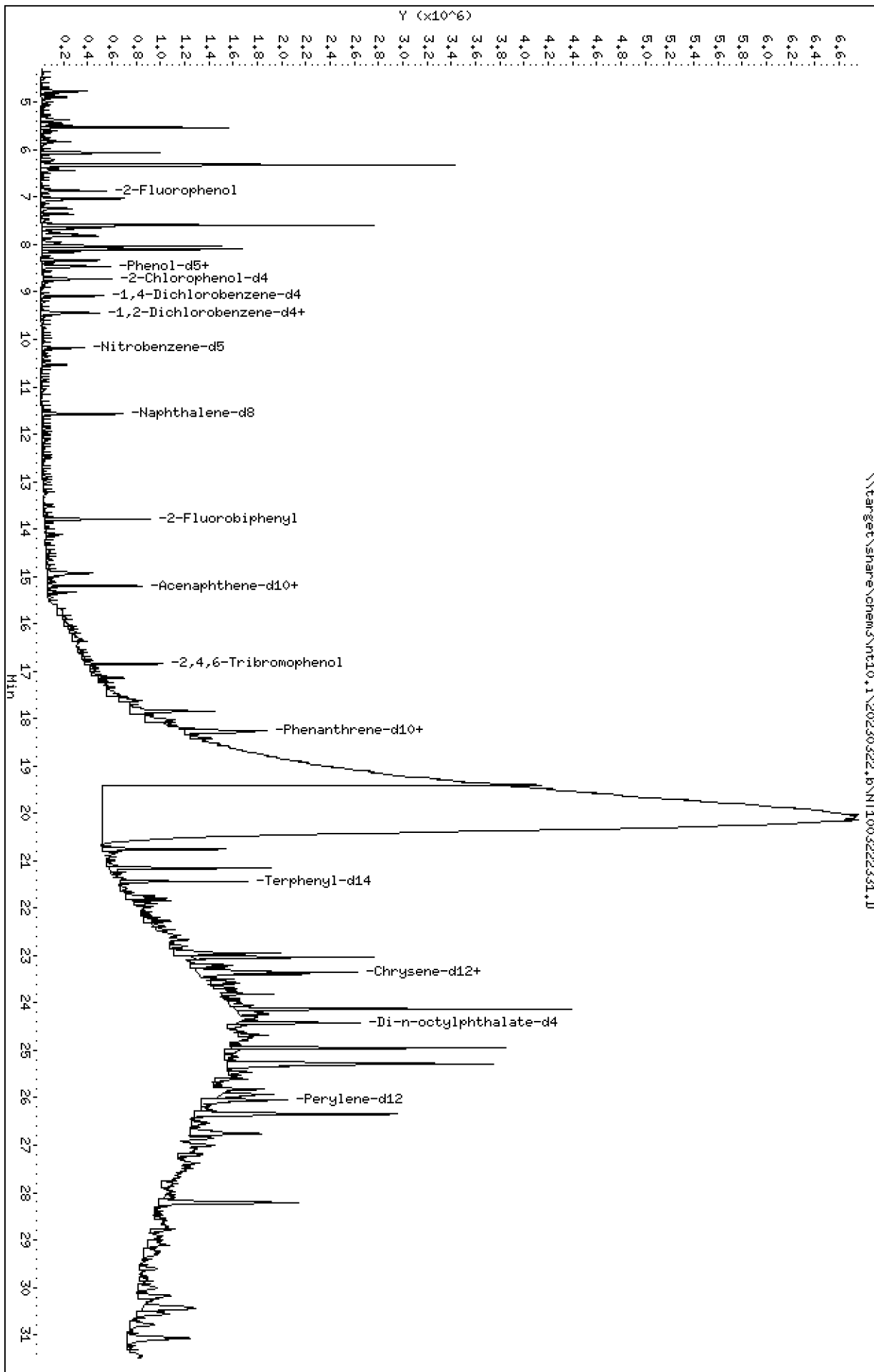
Column phase: ZB-5msi

Instrument: nt10.1

Operator: VTS

Column diameter: 0.25

Page 1



Date : 23-MAR-2023 12:05

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-03RE1

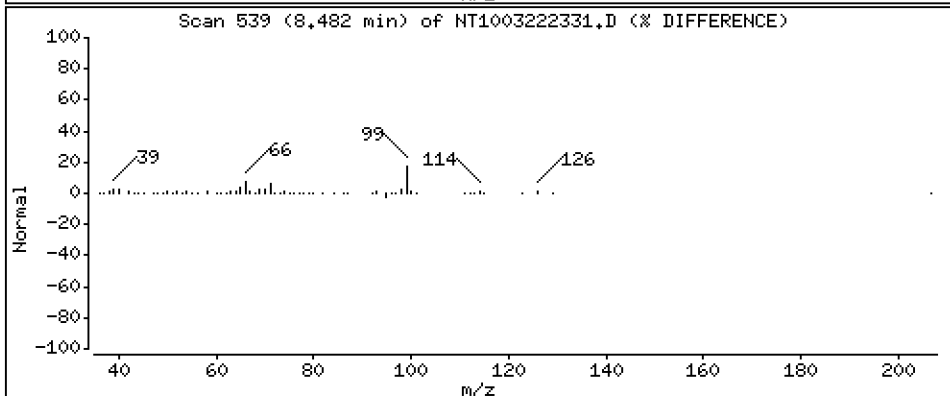
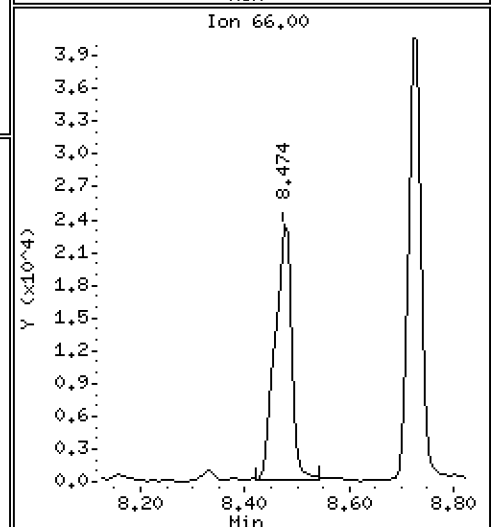
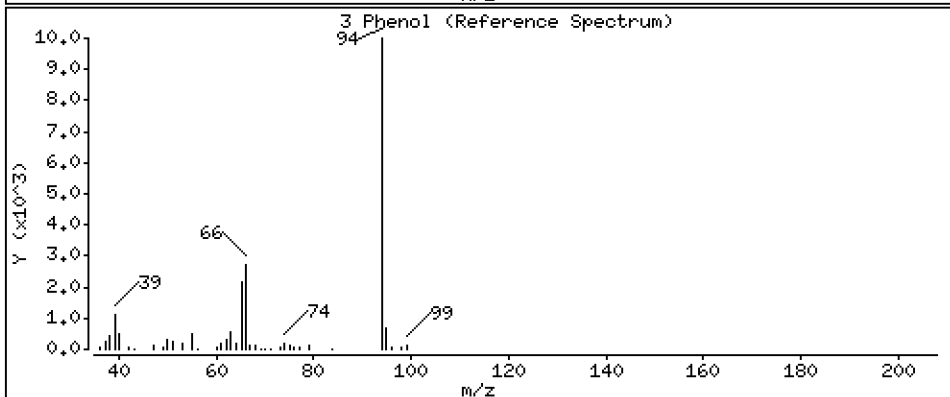
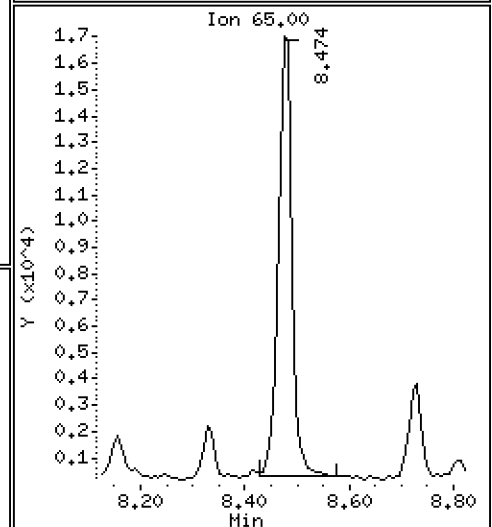
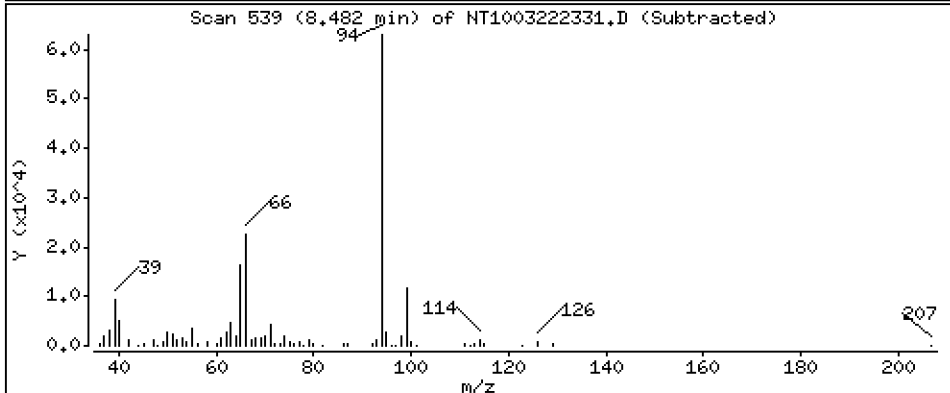
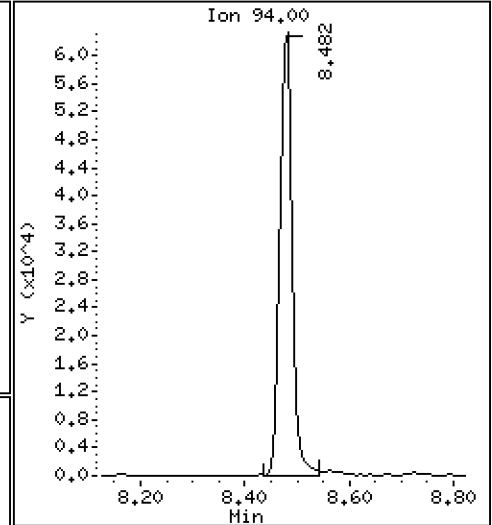
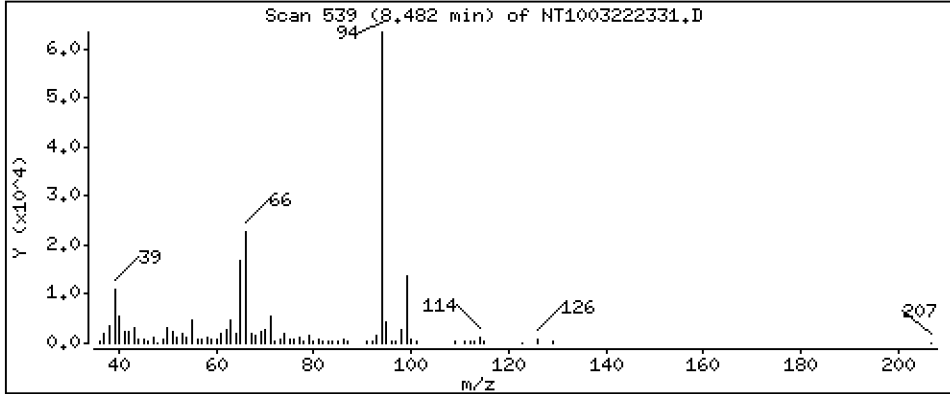
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

3 Phenol

Concentration: 1.694 ug/mL



Date : 23-MAR-2023 12:05

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-03RE1

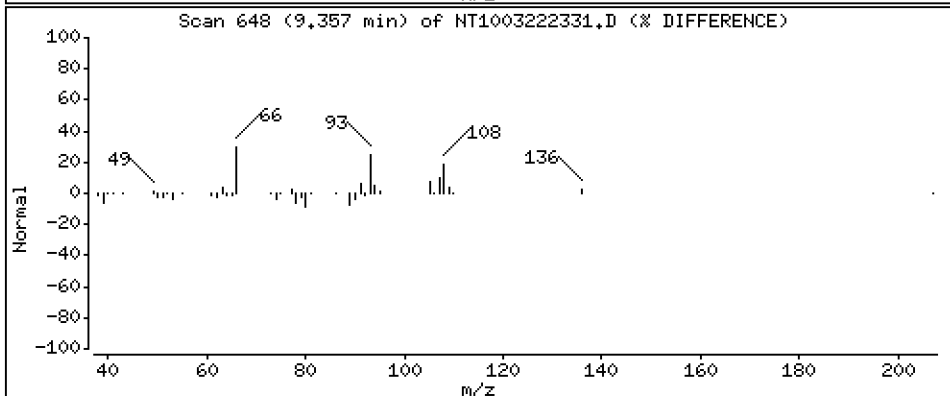
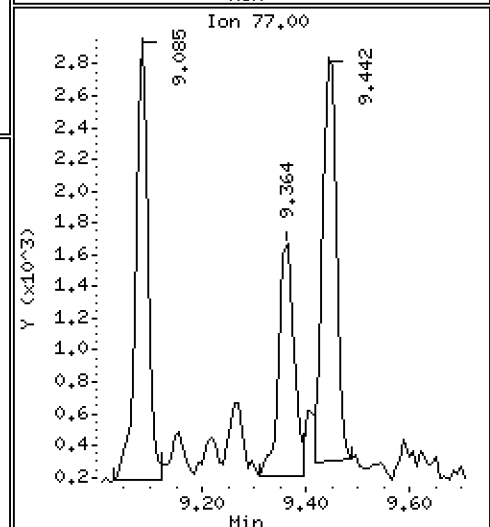
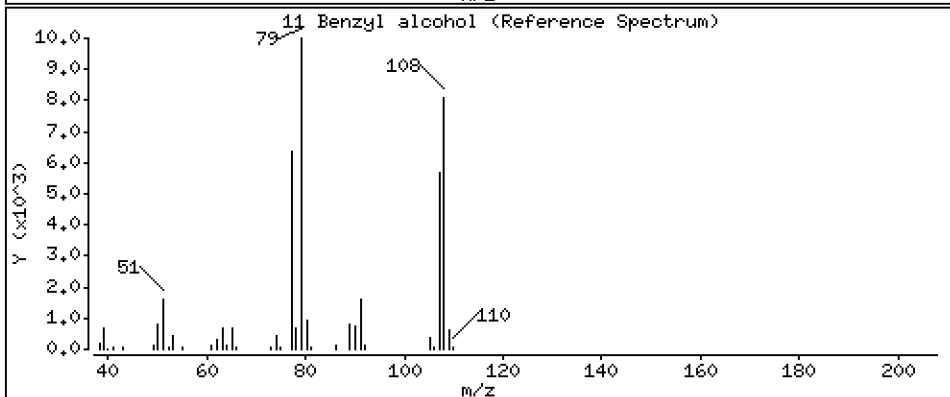
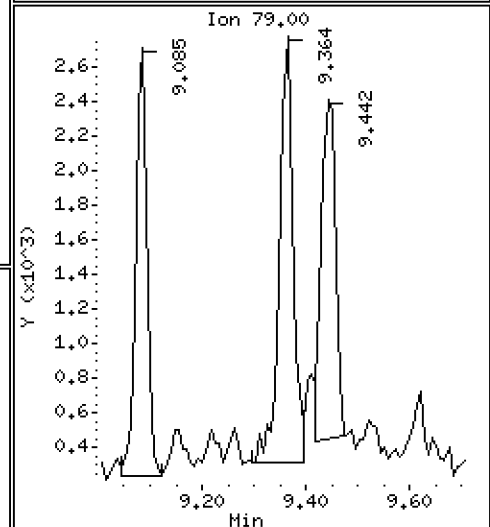
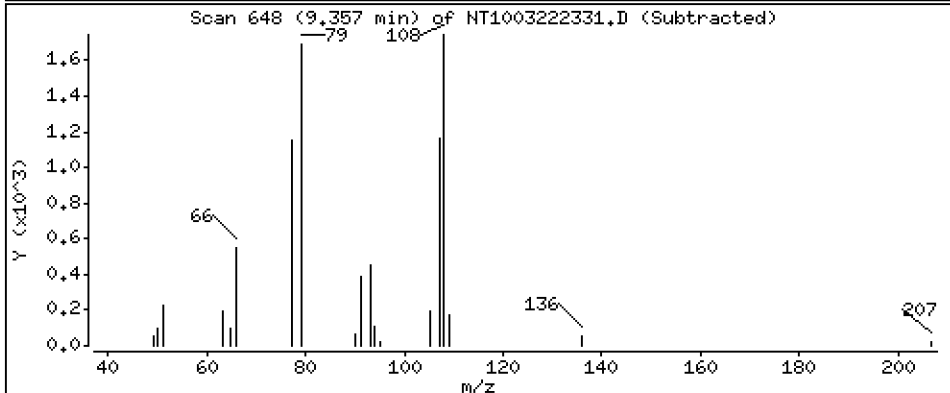
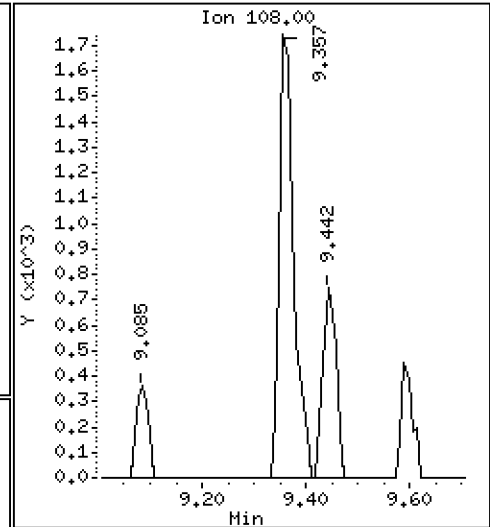
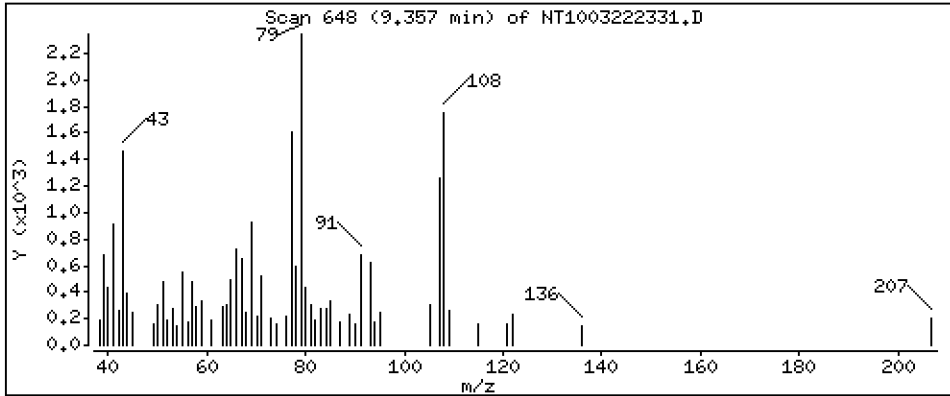
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 0.1156 ug/mL



Date : 23-MAR-2023 12:05

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-03RE1

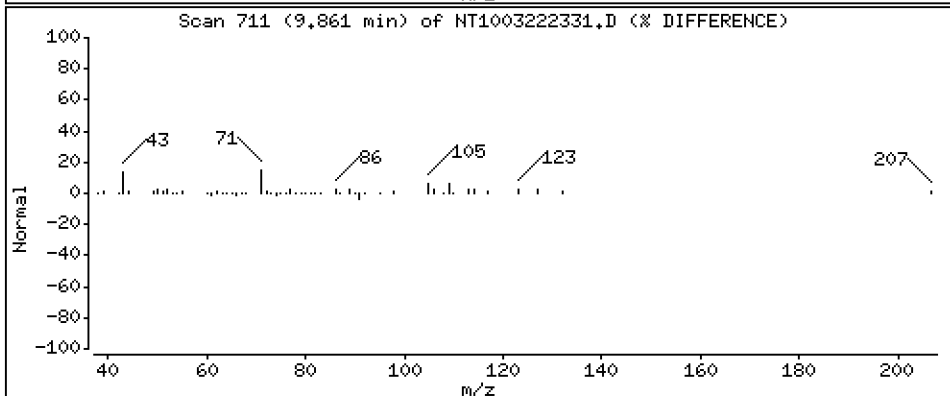
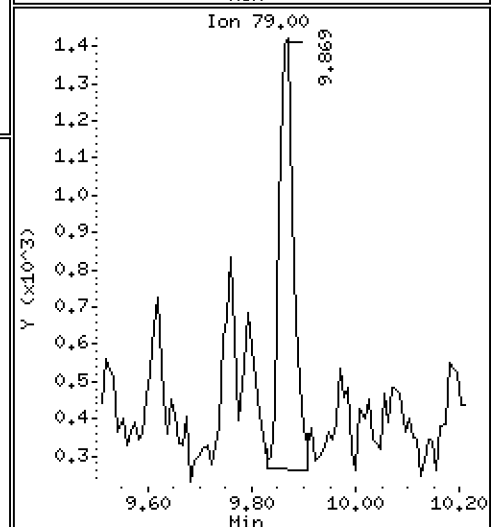
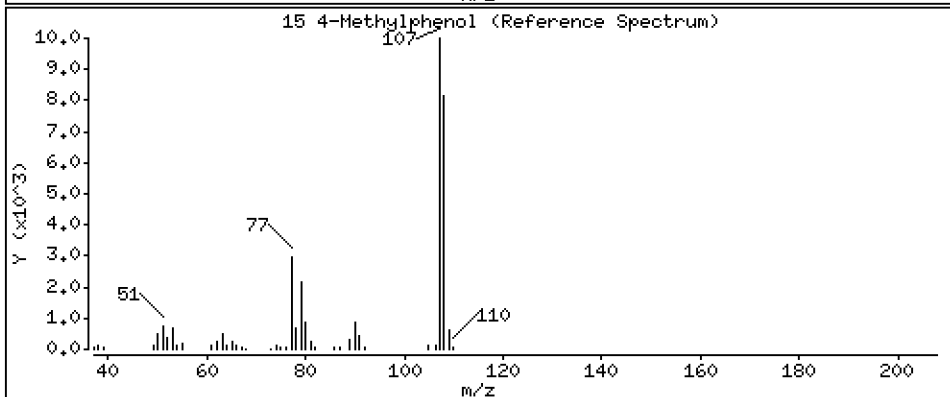
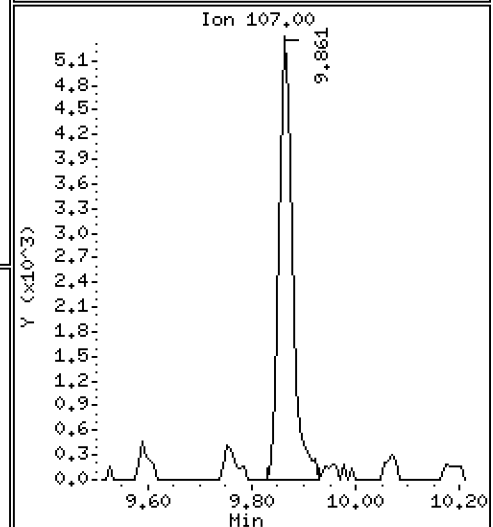
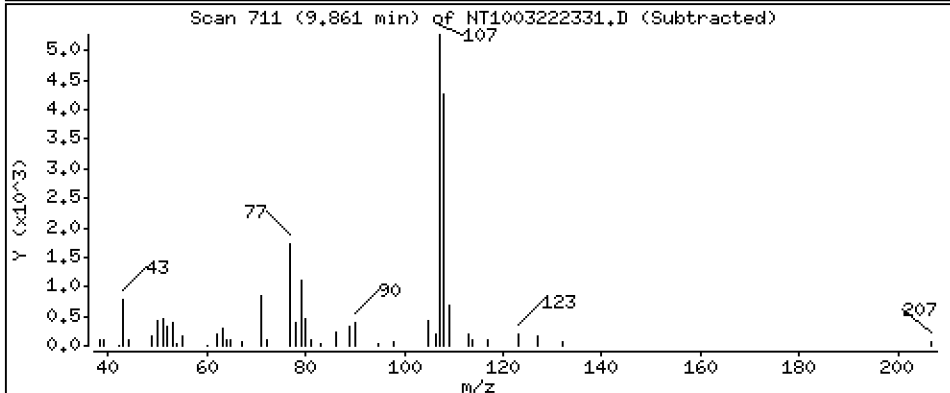
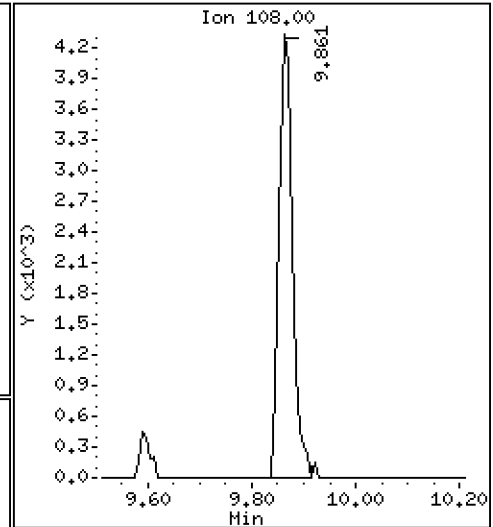
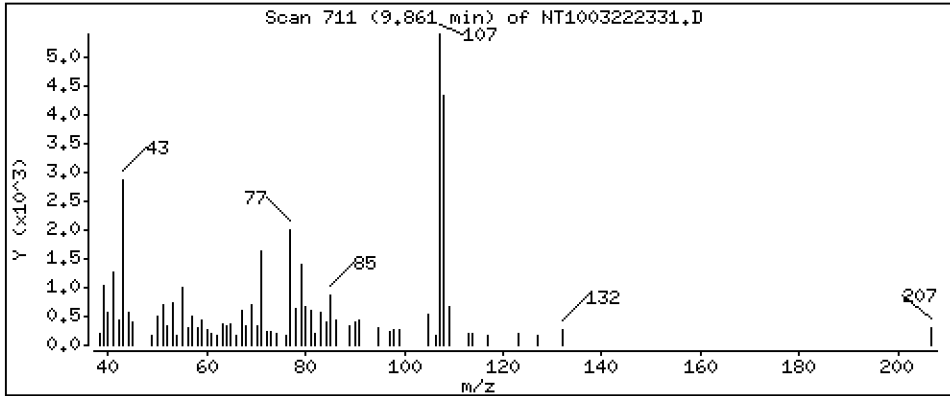
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 0.1658 ug/mL



Date : 23-MAR-2023 12:05

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-03RE1

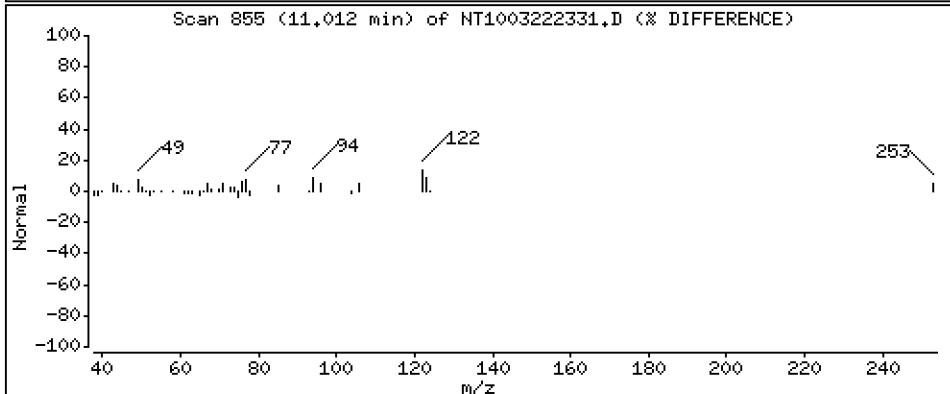
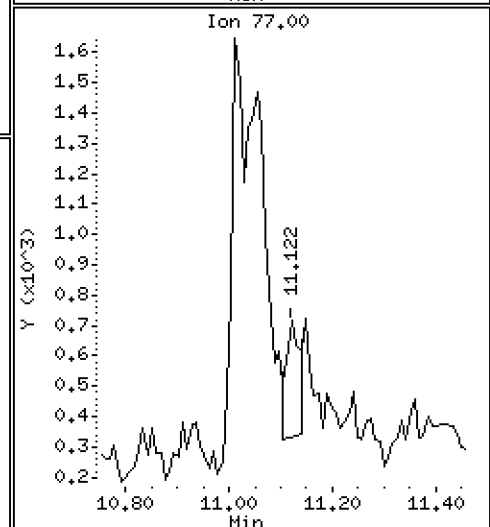
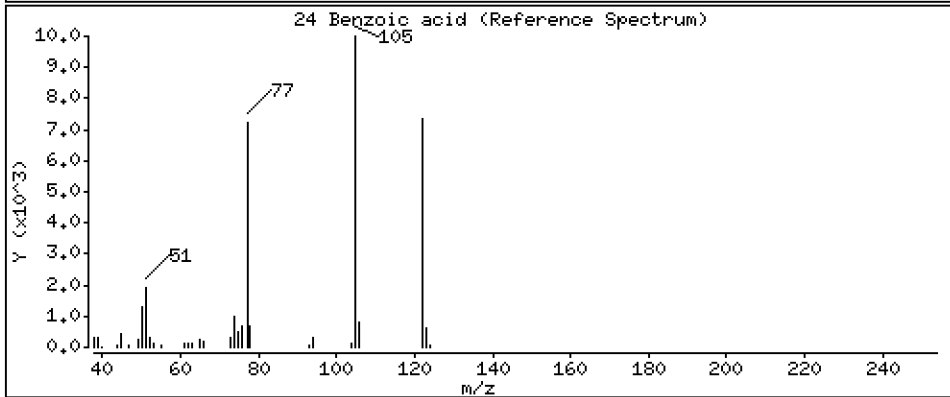
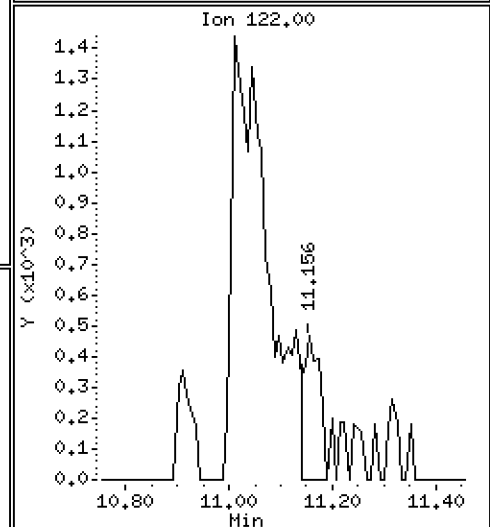
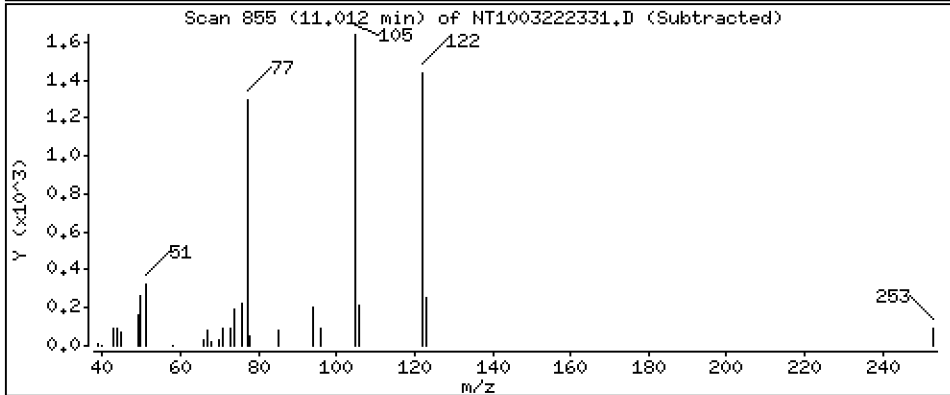
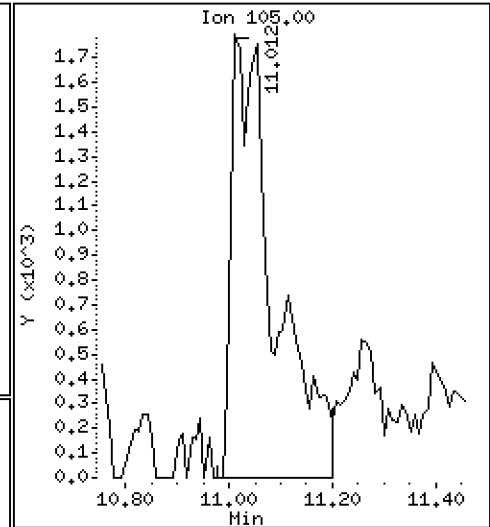
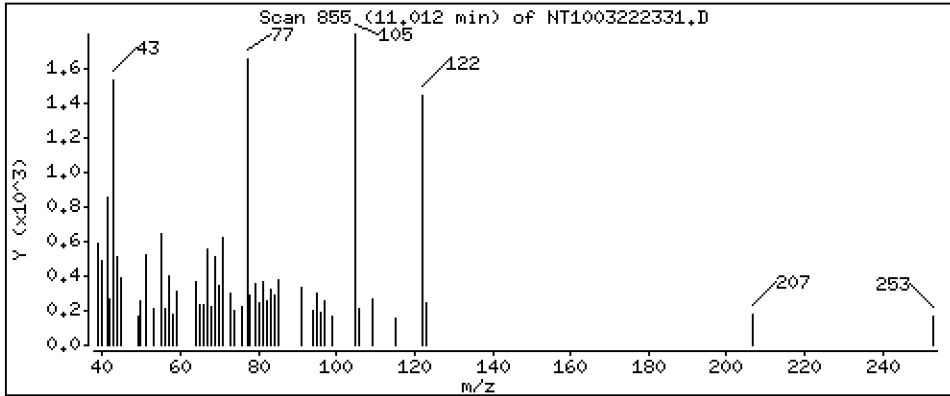
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

24 Benzoic acid

Concentration: 0.3882 ug/mL



Date : 23-MAR-2023 12:05

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-03RE1

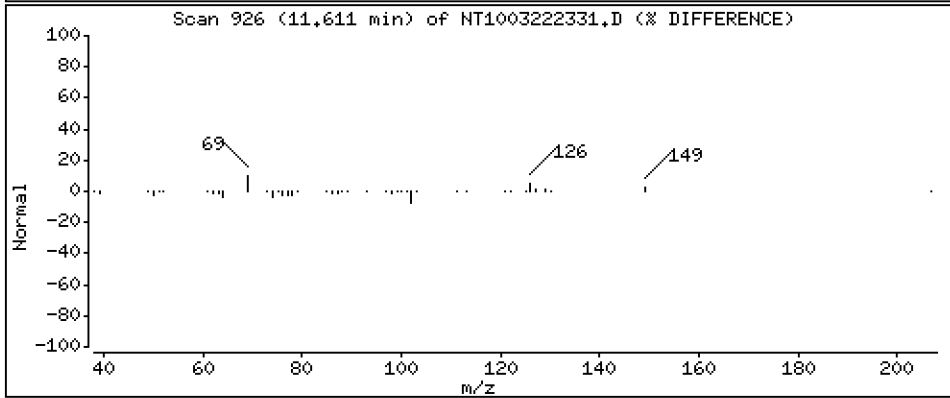
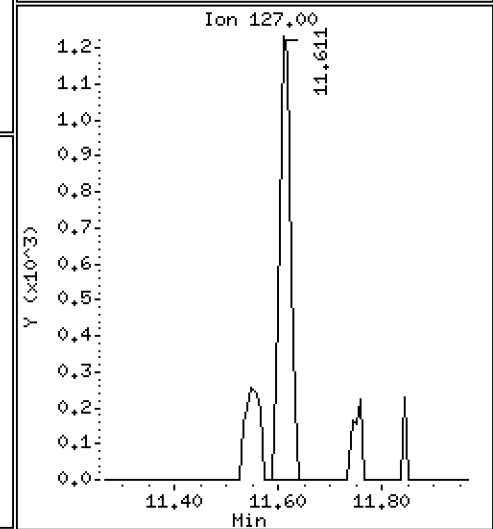
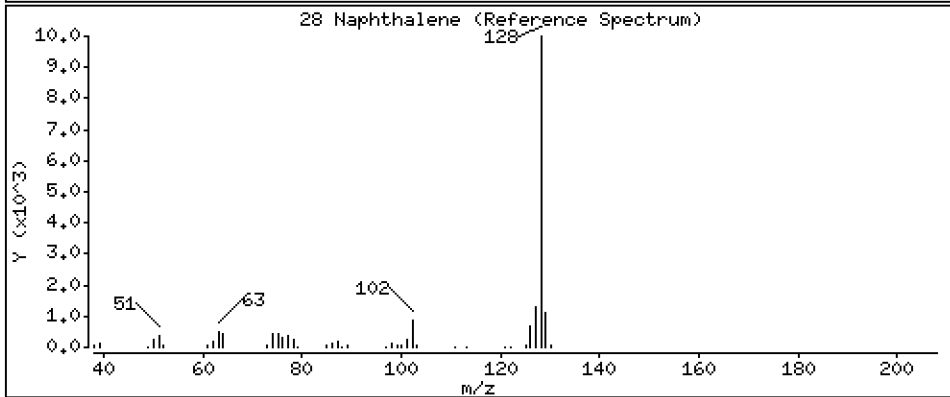
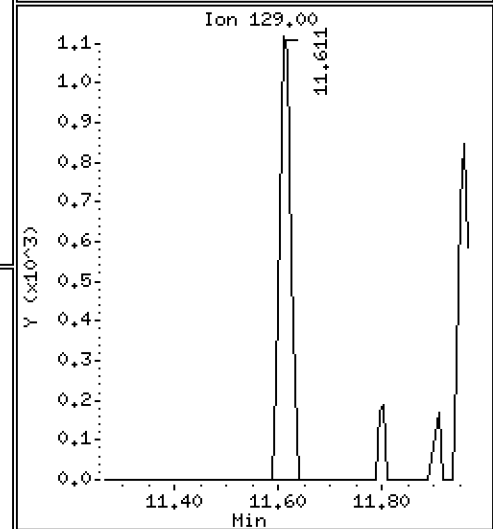
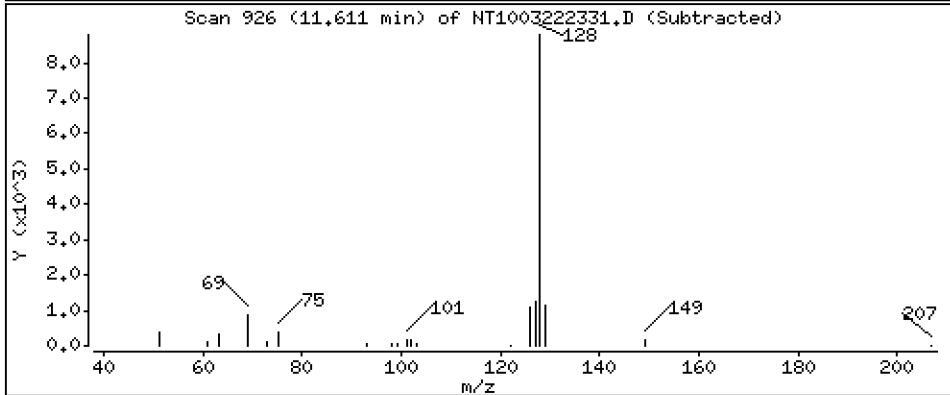
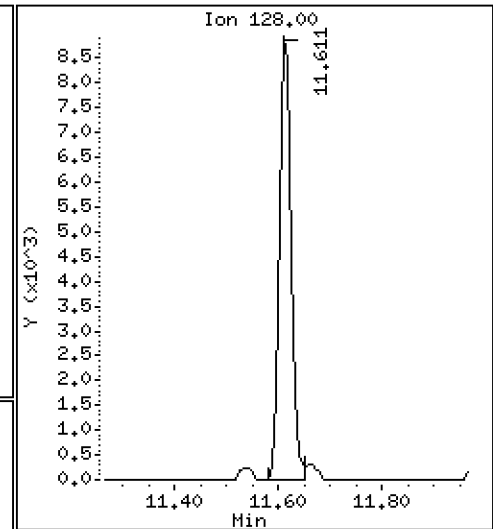
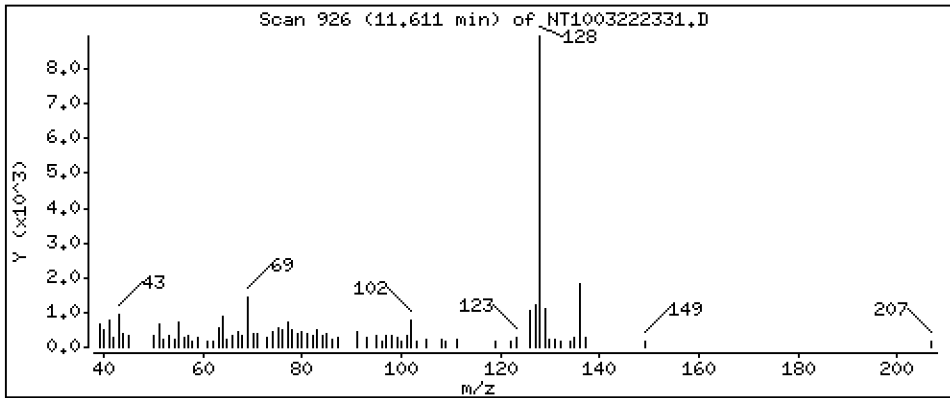
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 0,1050 ug/mL



Date : 23-MAR-2023 12:05

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-03RE1

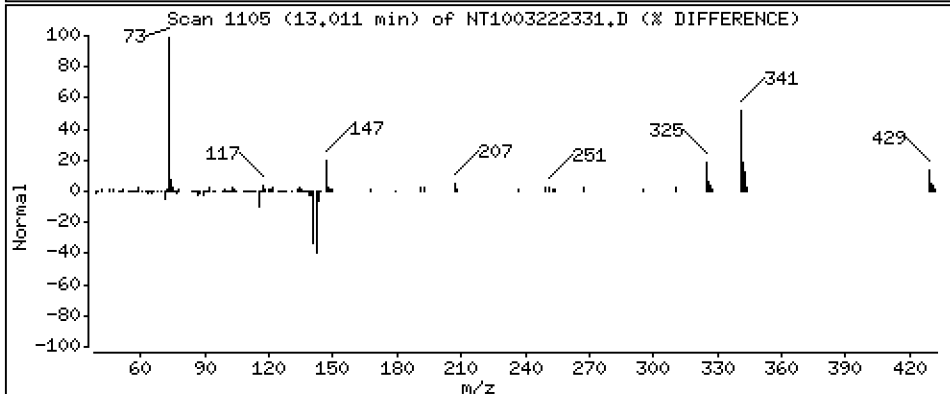
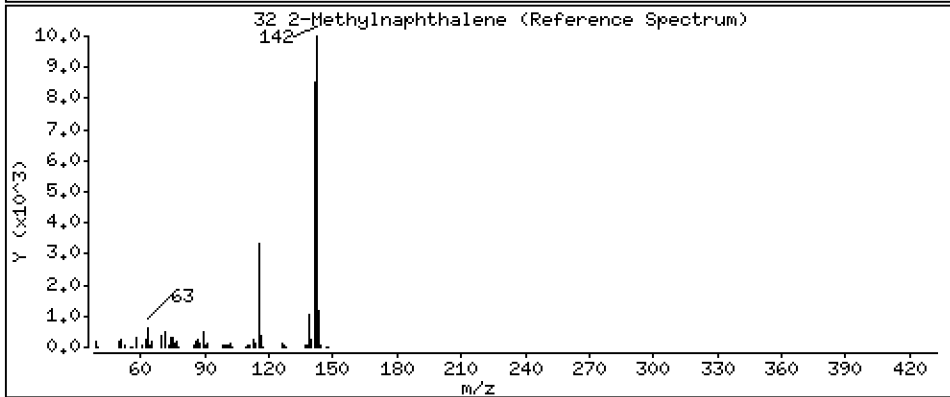
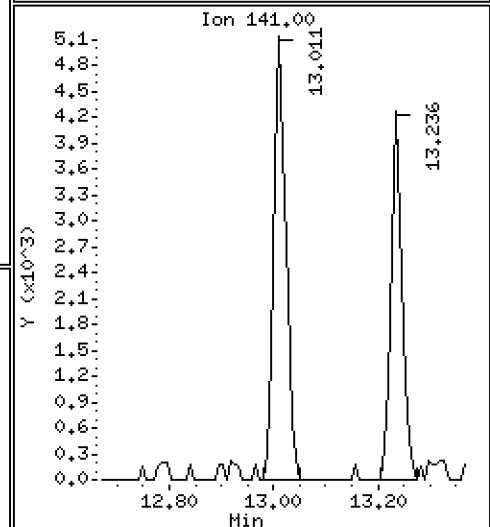
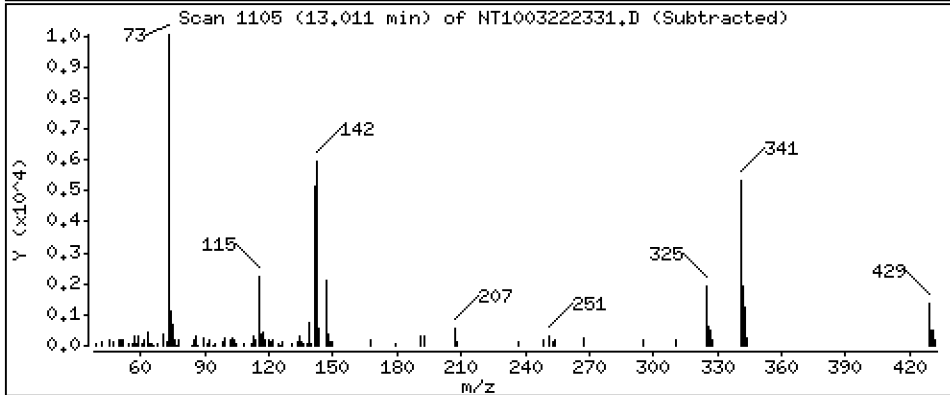
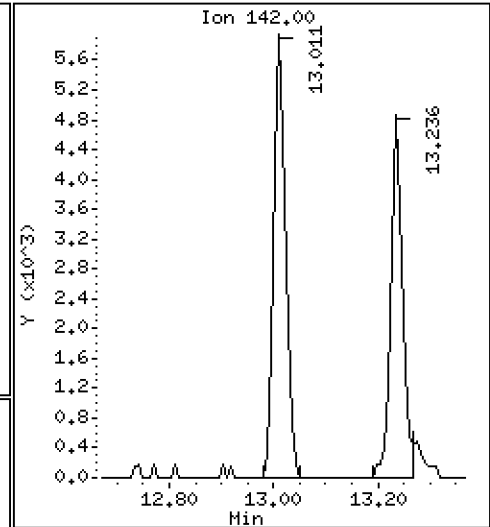
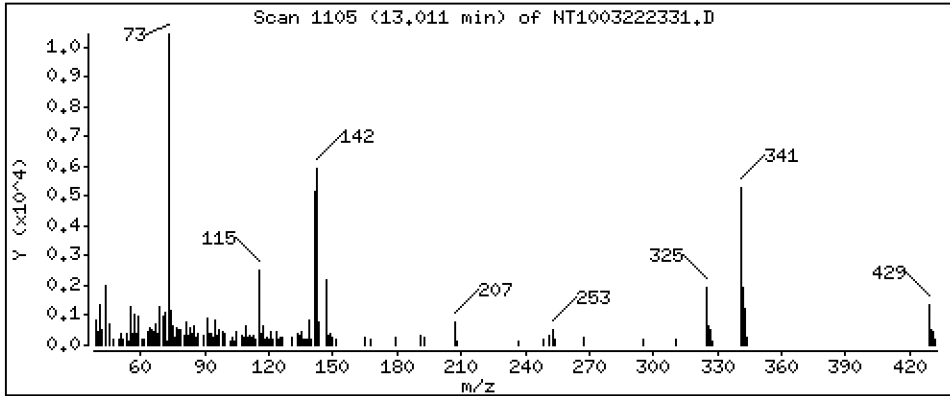
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 0,09110 ug/mL



Date : 23-MAR-2023 12:05

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-03RE1

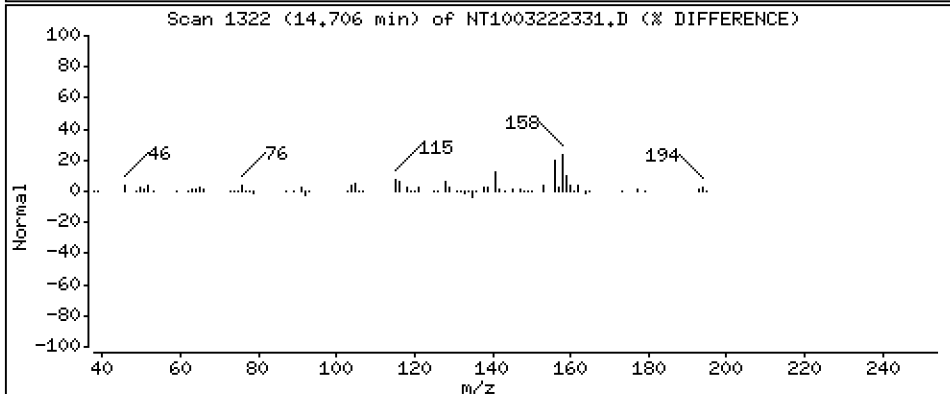
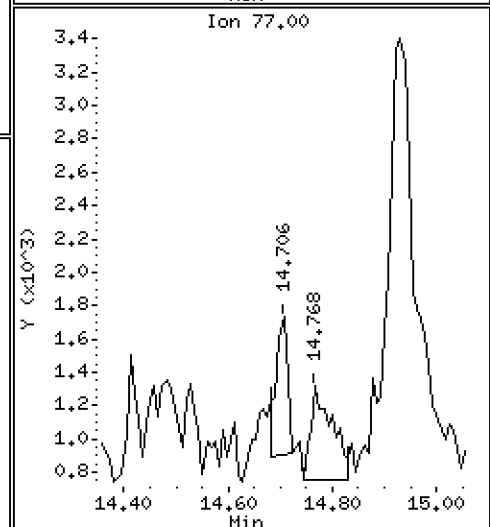
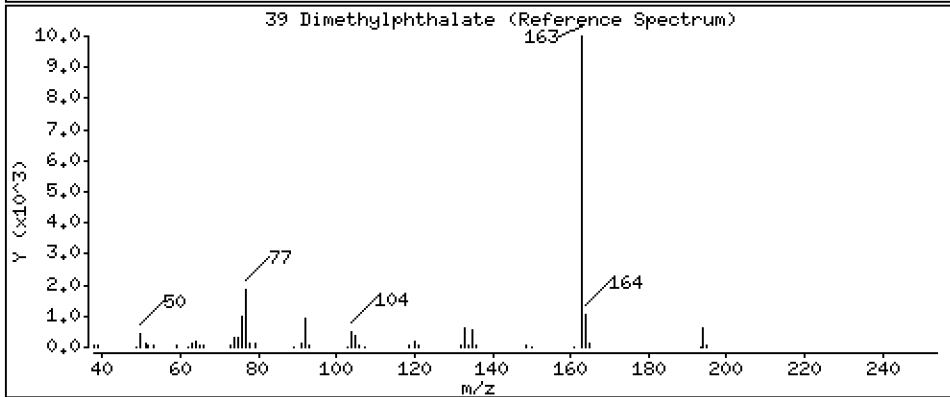
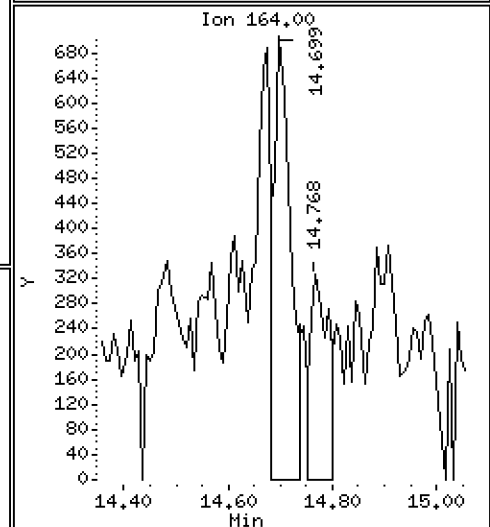
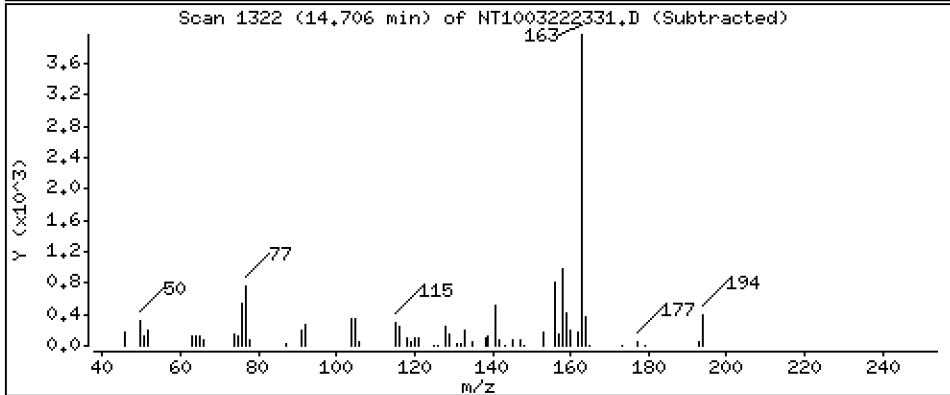
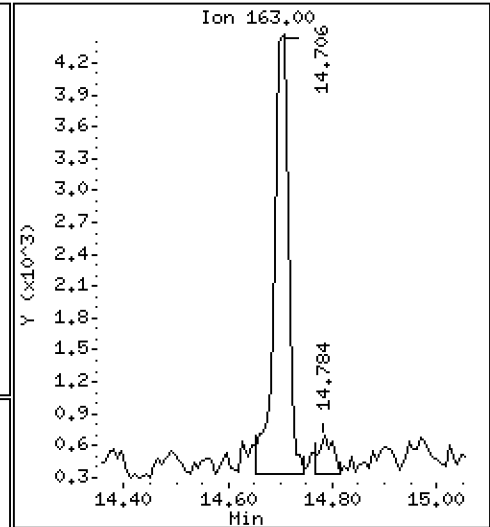
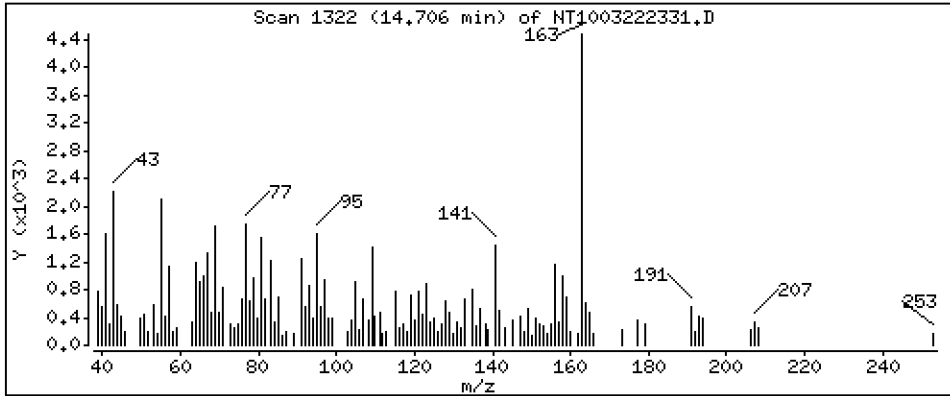
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

39 Dimethylphthalate

Concentration: 0.07956 ug/mL



Date : 23-MAR-2023 12:05

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-03RE1

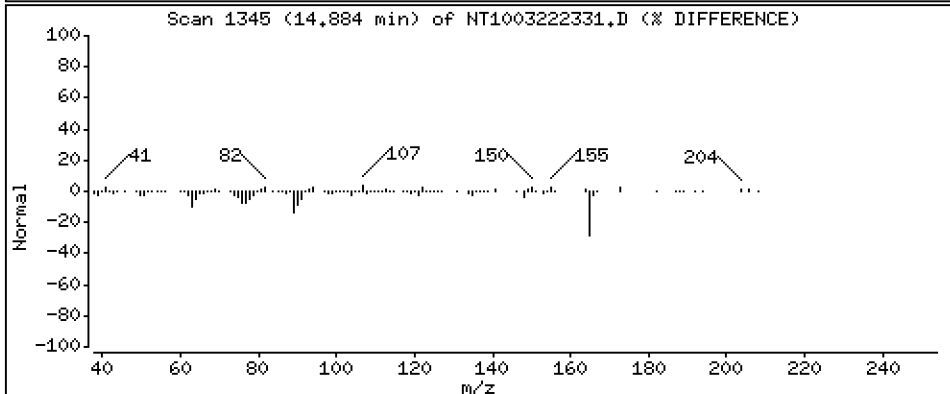
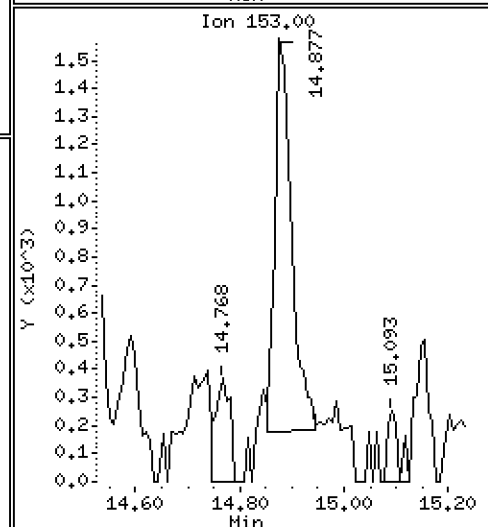
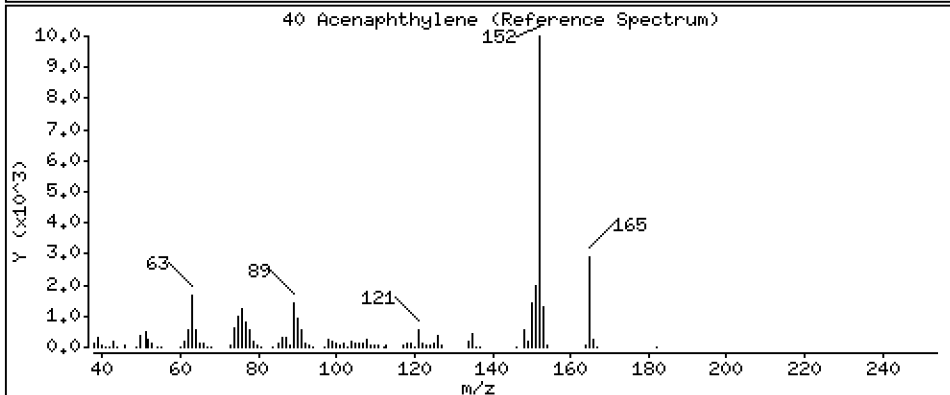
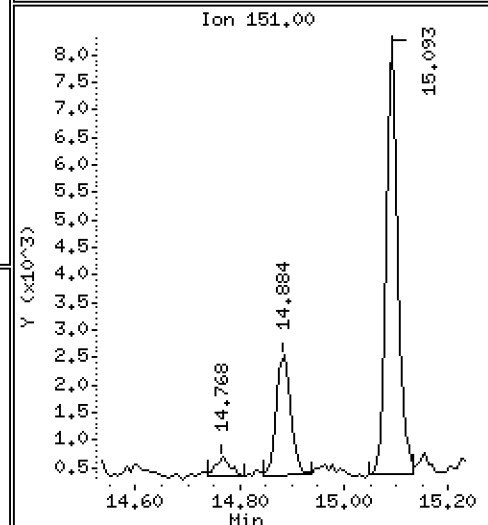
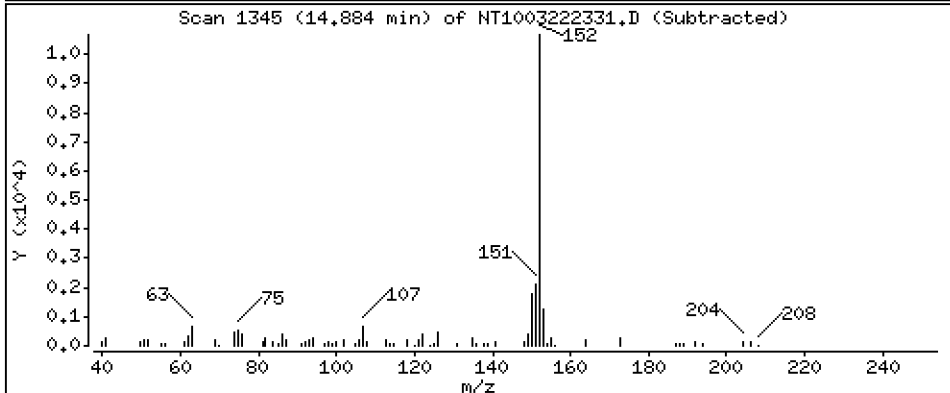
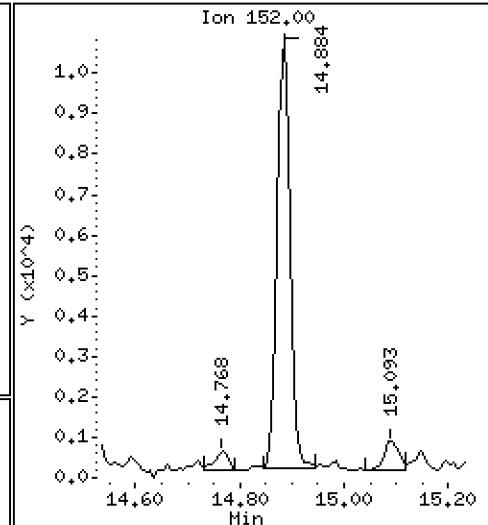
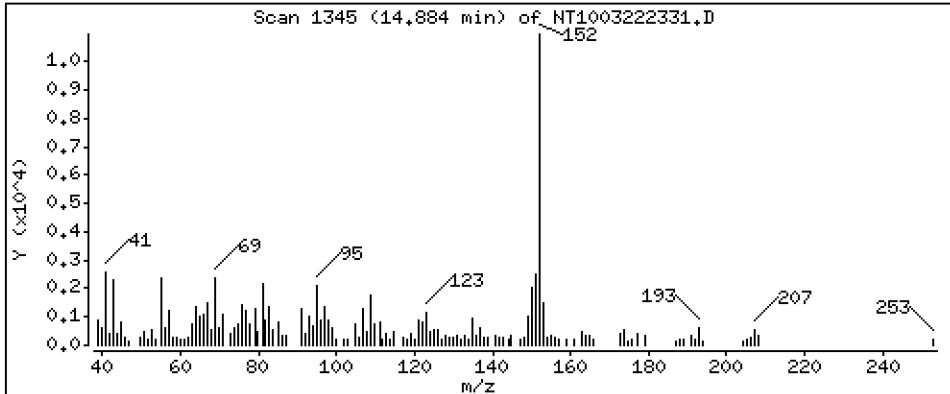
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 0,1182 ug/mL



Date : 23-MAR-2023 12:05

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-03RE1

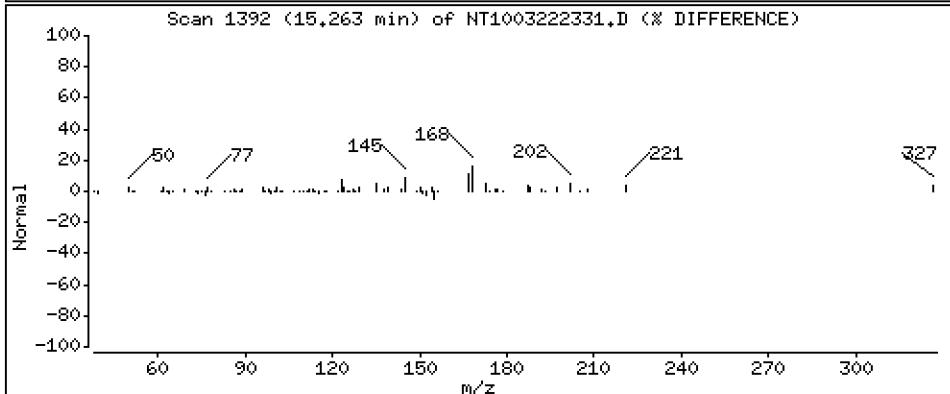
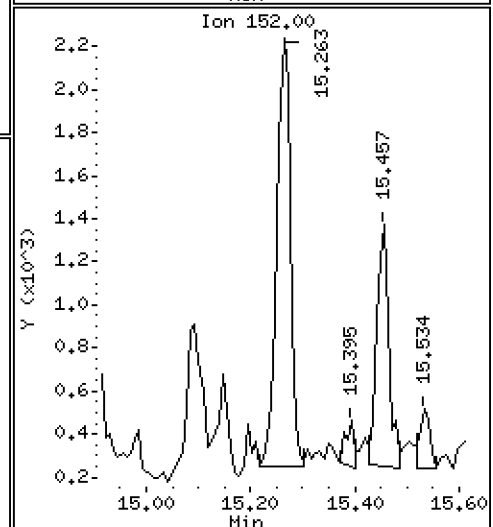
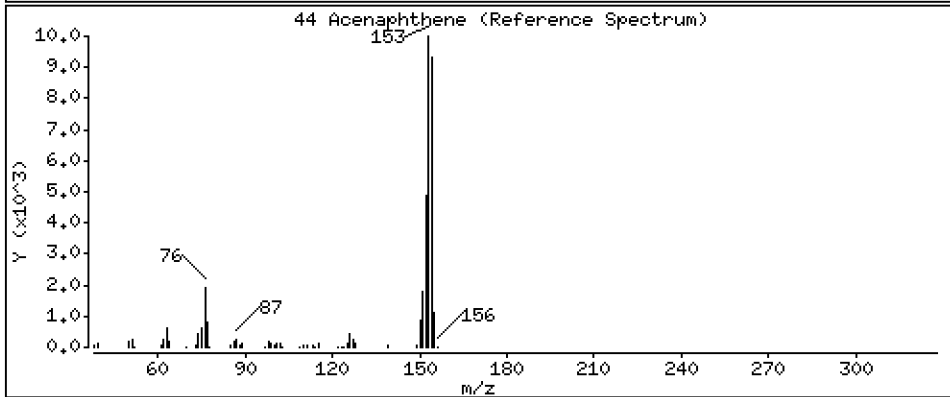
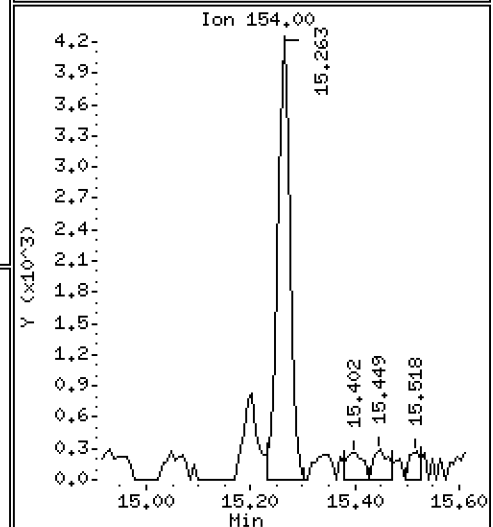
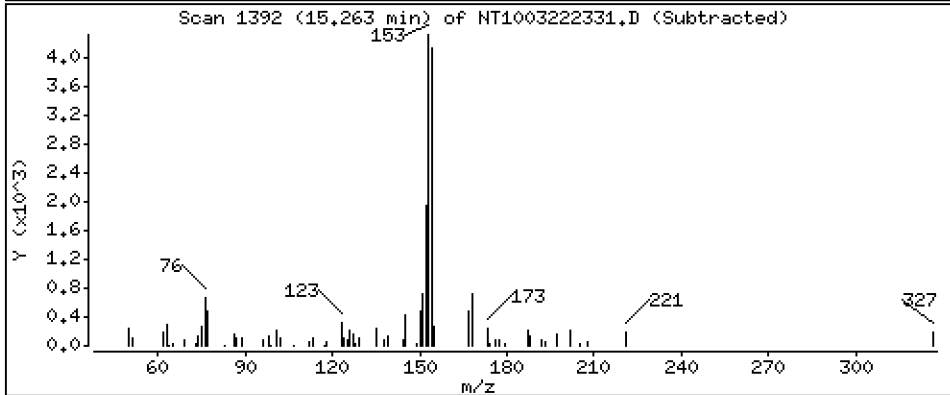
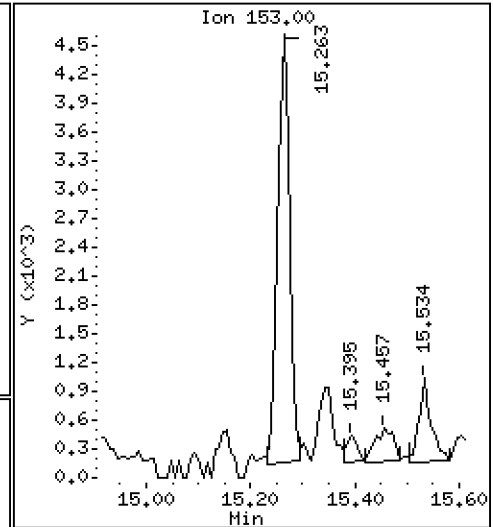
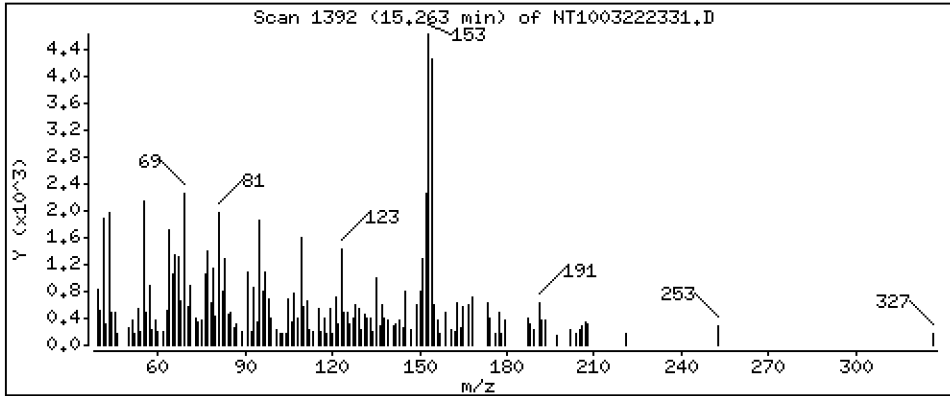
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 0,07418 ug/mL



Date : 23-MAR-2023 12:05

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-03RE1

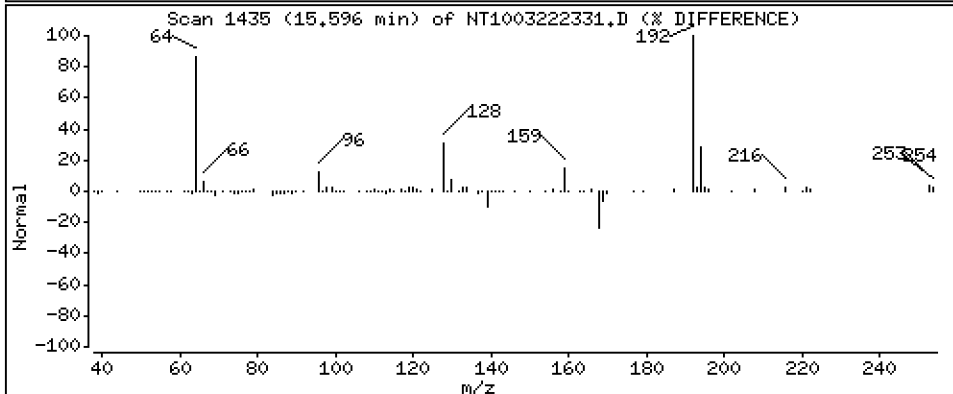
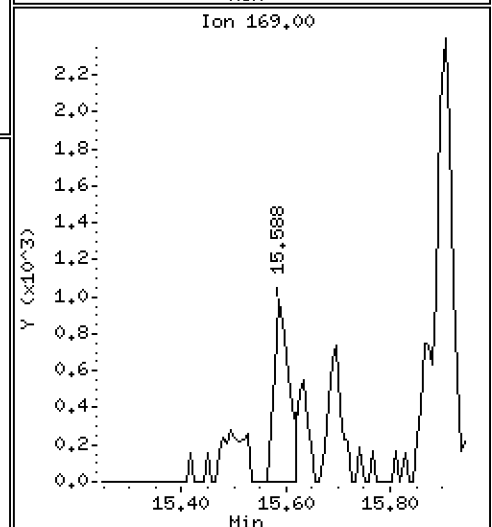
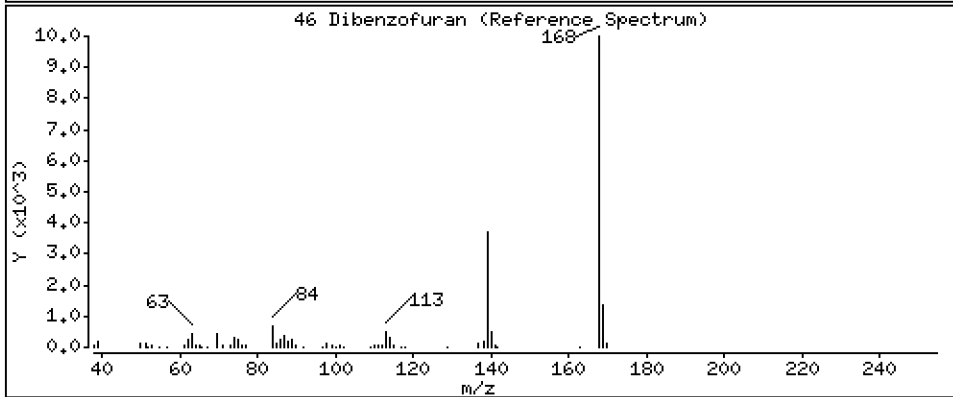
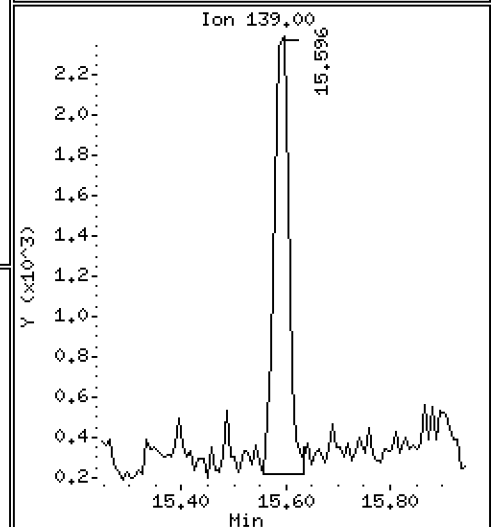
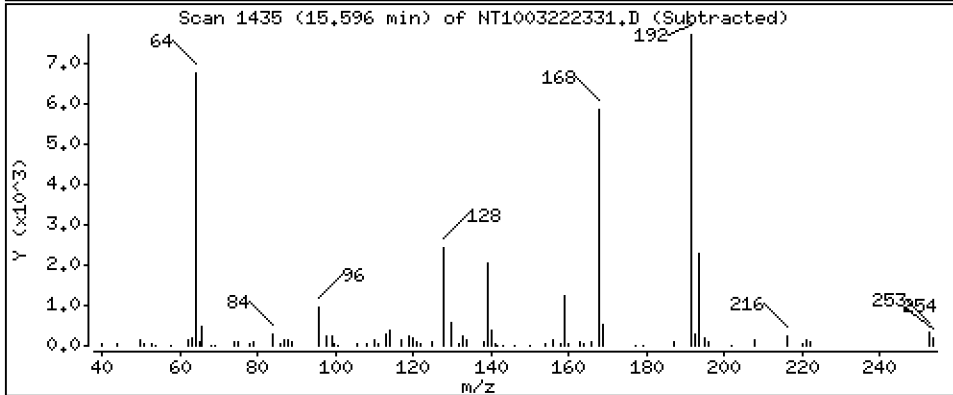
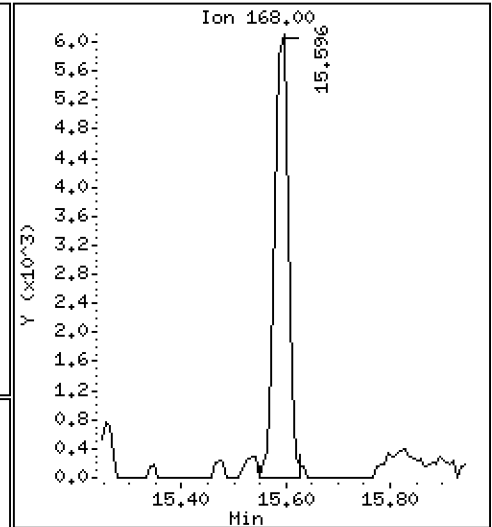
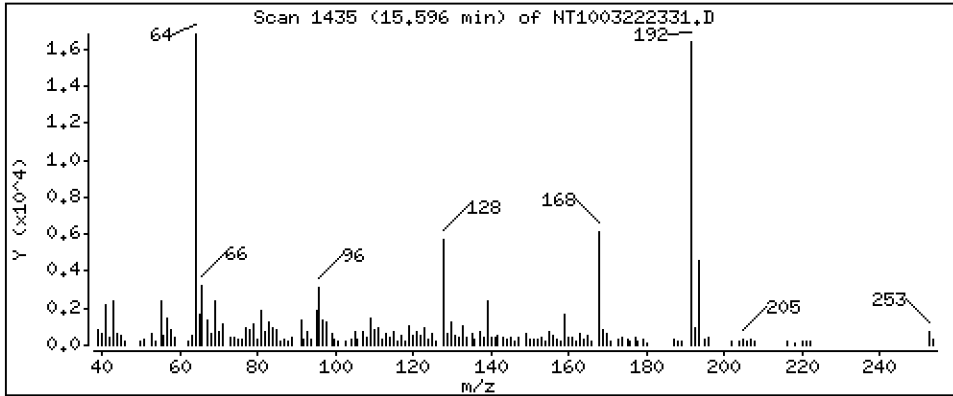
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 0,07991 ug/mL



Date : 23-MAR-2023 12:05

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-03RE1

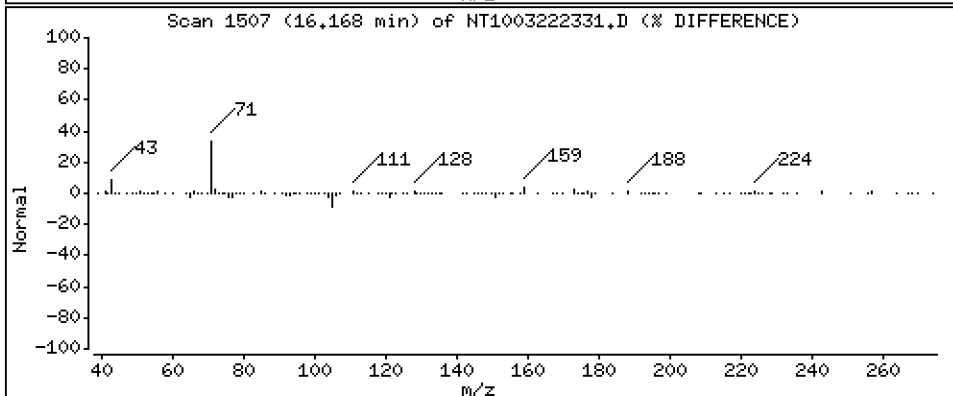
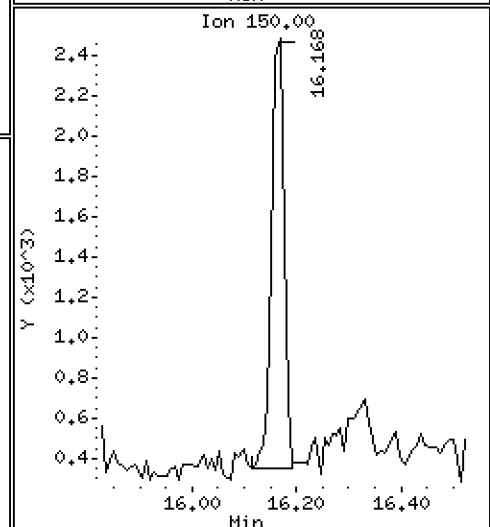
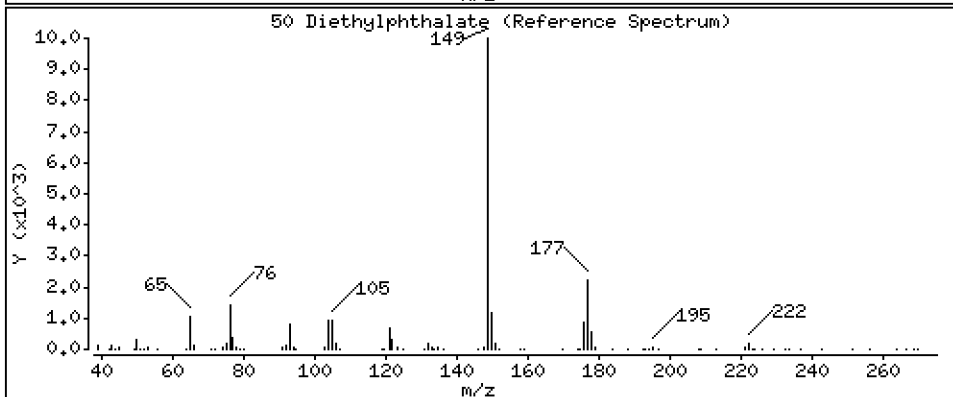
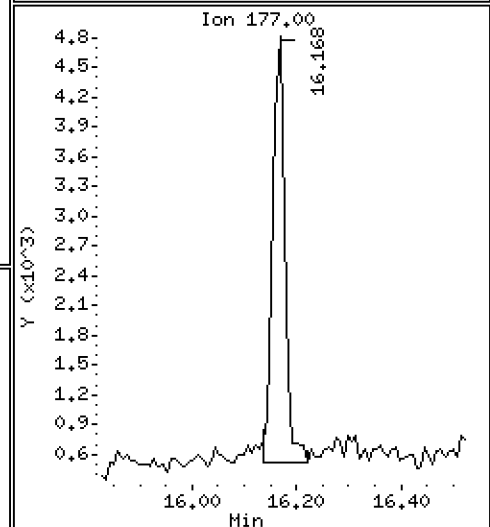
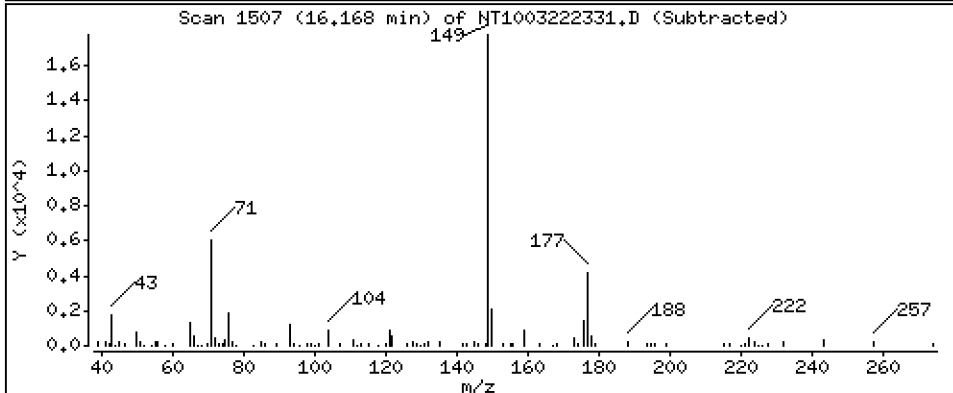
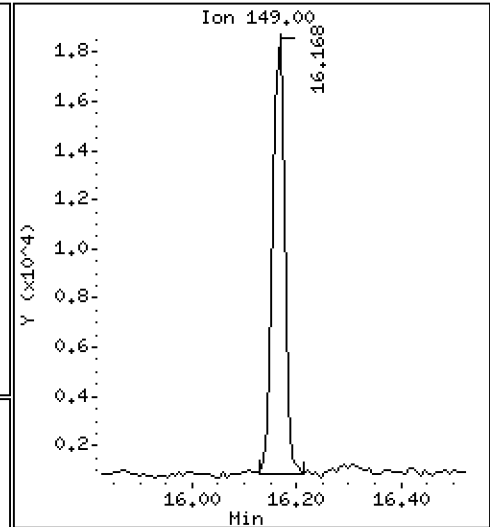
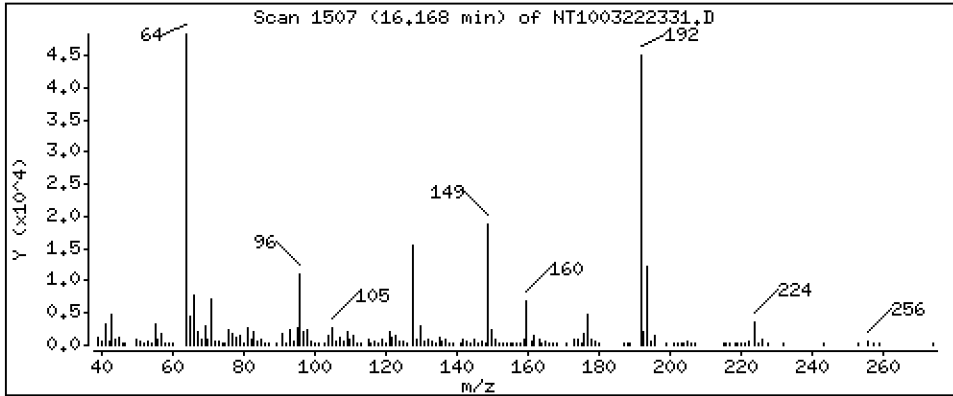
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 0,3464 ug/mL



Date : 23-MAR-2023 12:05

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-03RE1

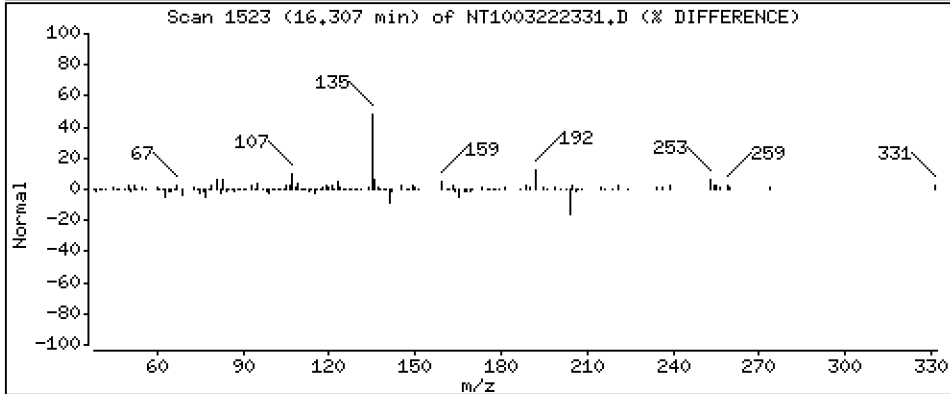
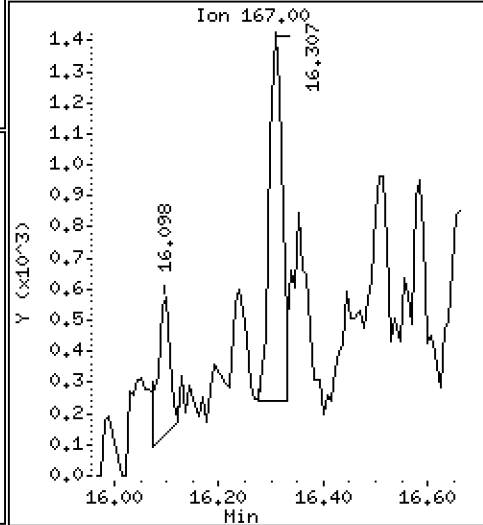
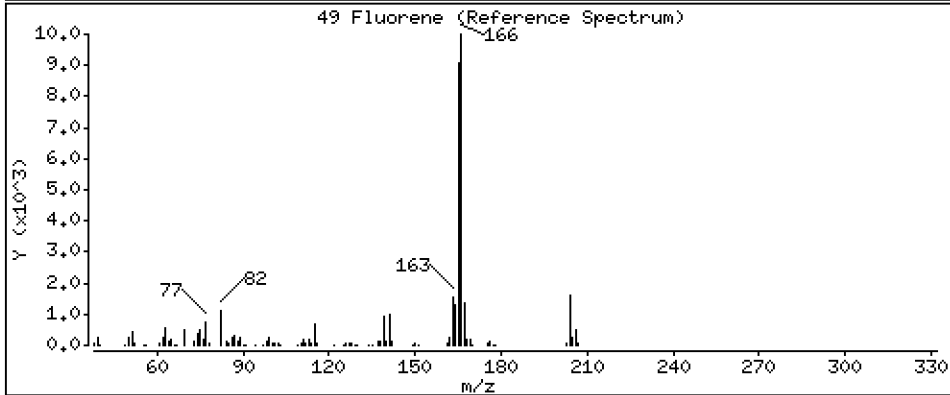
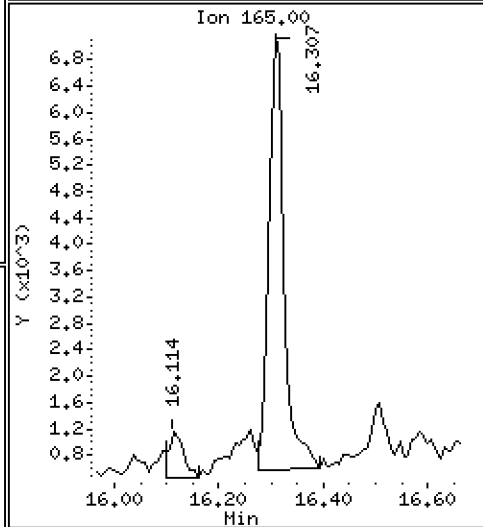
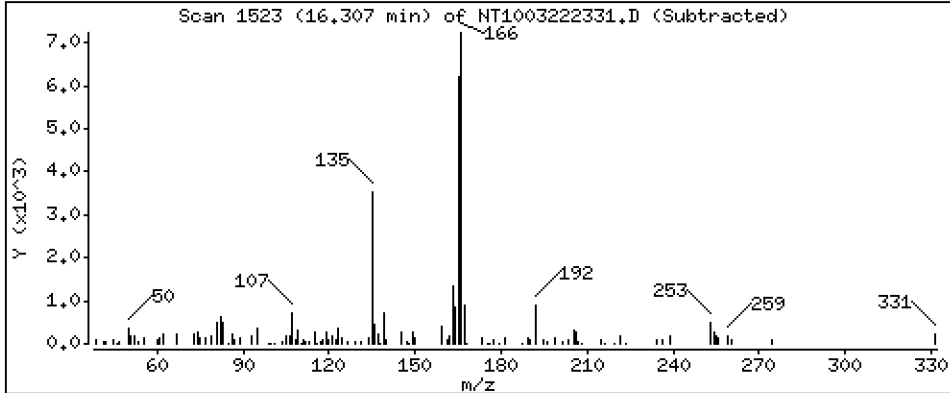
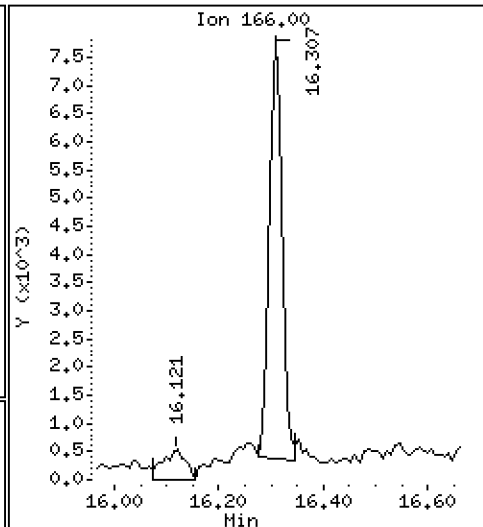
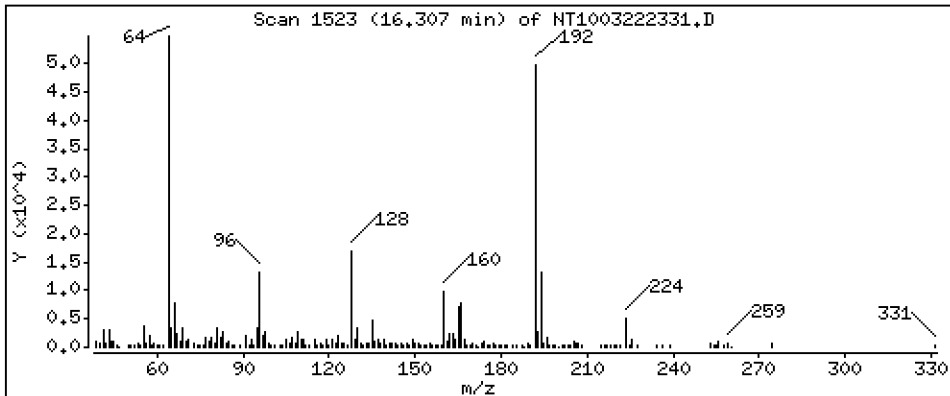
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

49 Fluorene

Concentration: 0.1137 ug/mL



Date : 23-MAR-2023 12:05

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-03RE1

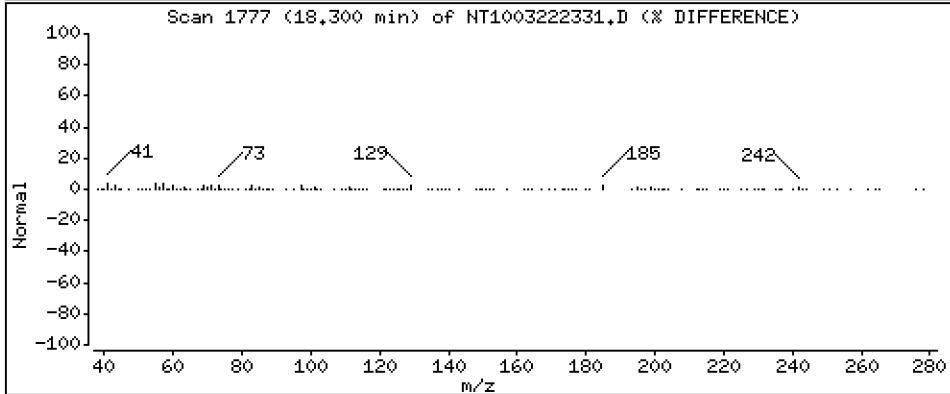
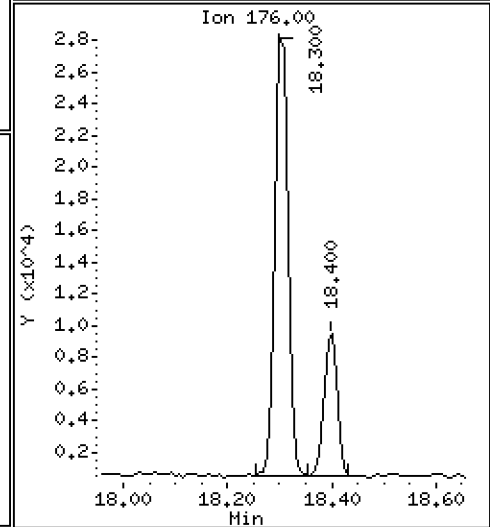
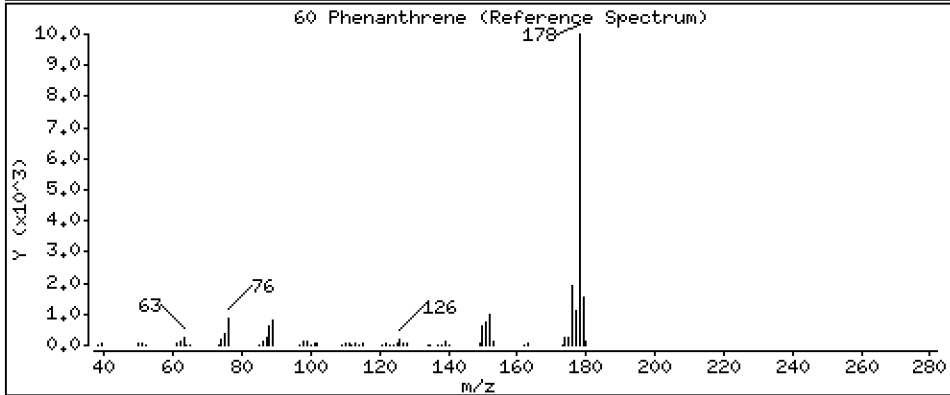
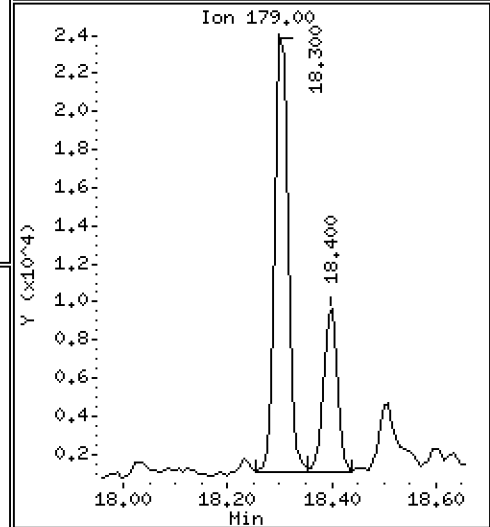
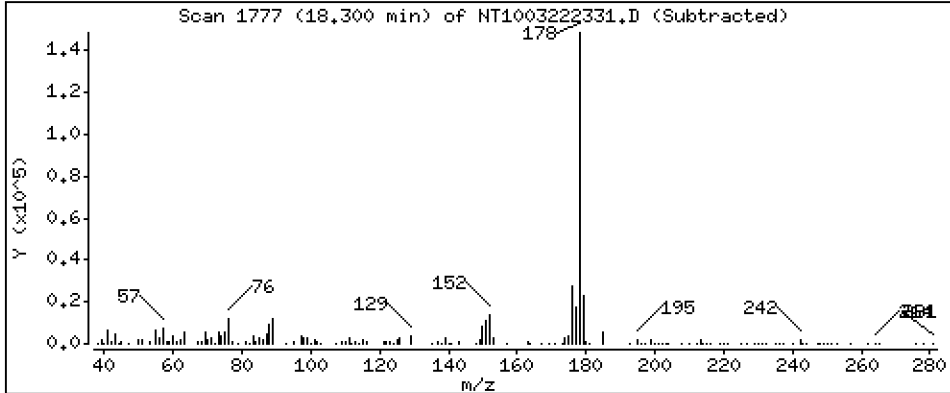
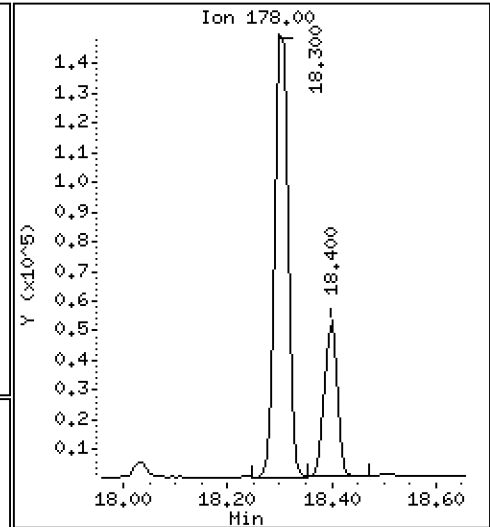
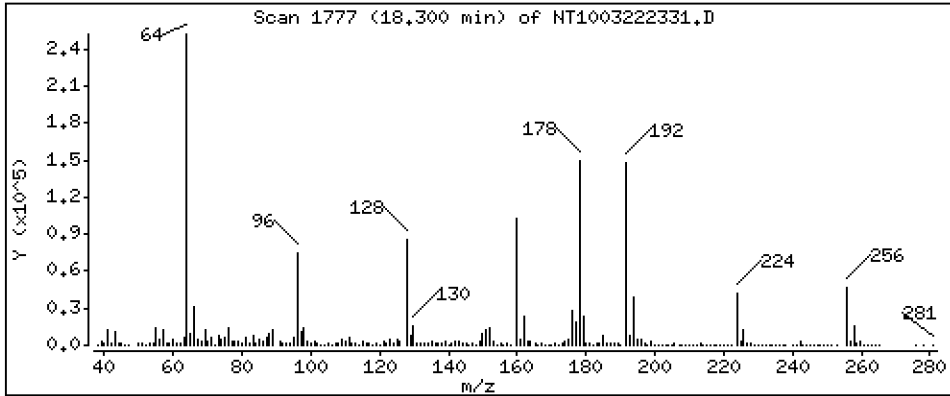
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 1,595 ug/mL



Date : 23-MAR-2023 12:05

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-03RE1

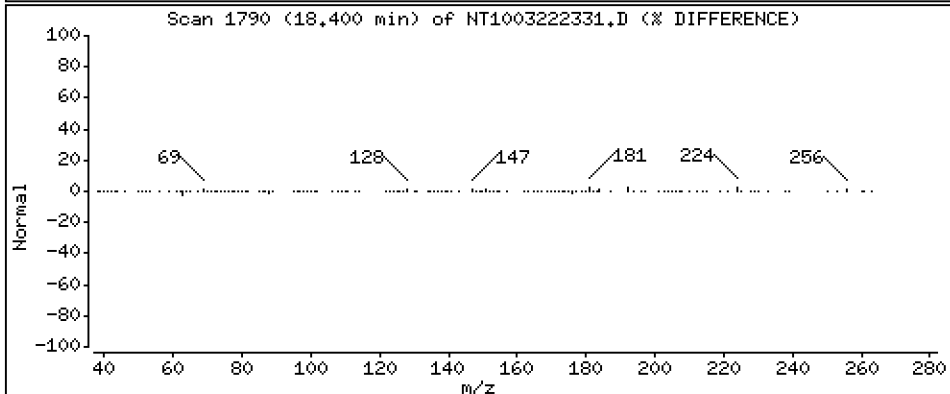
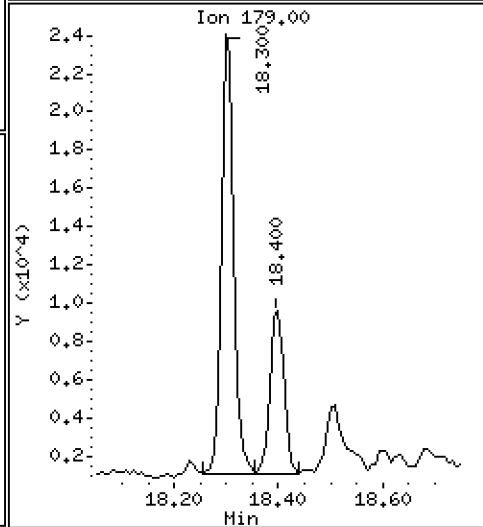
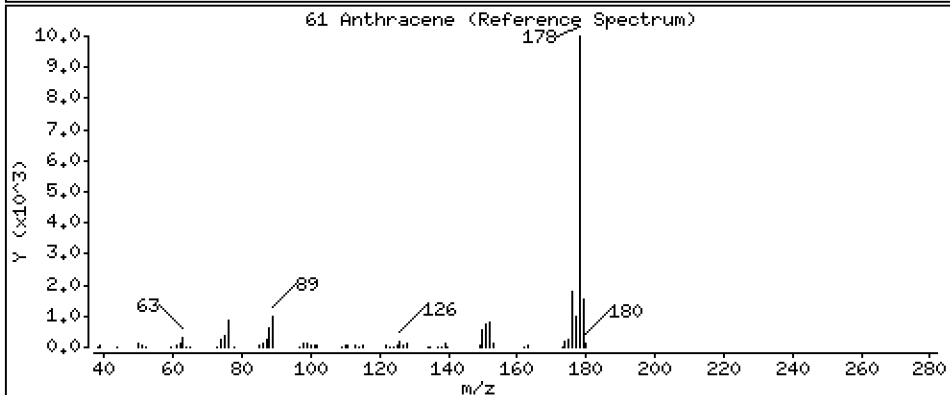
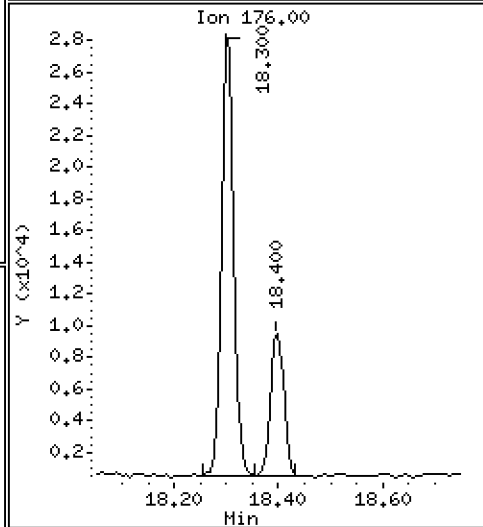
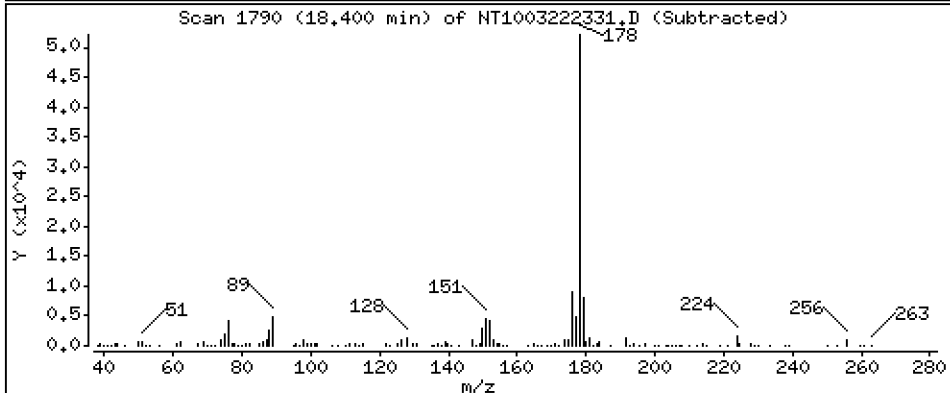
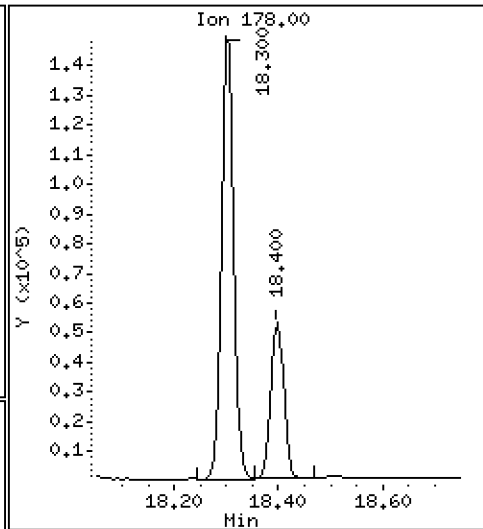
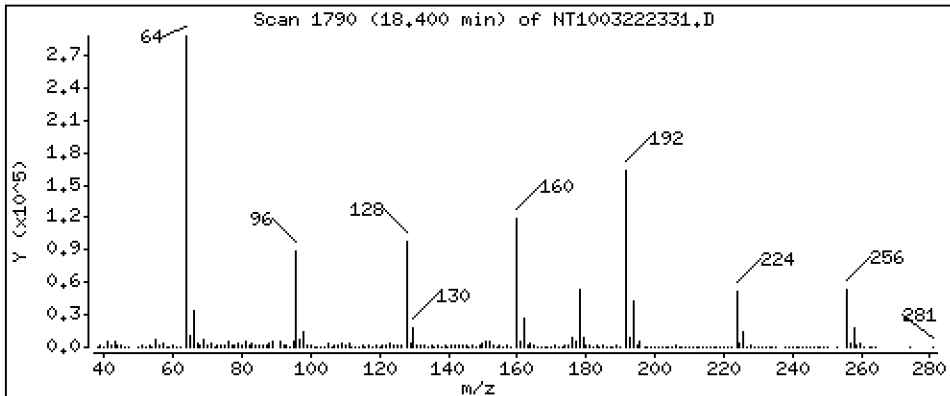
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 0,5913 ug/mL



Date : 23-MAR-2023 12:05

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-03RE1

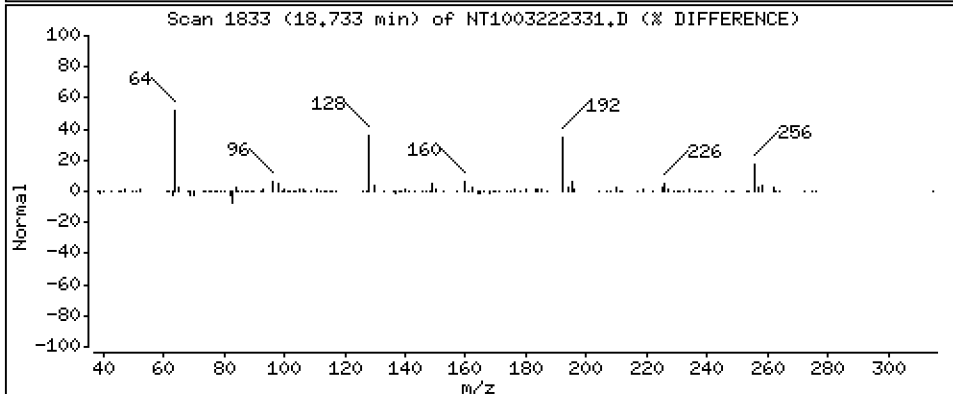
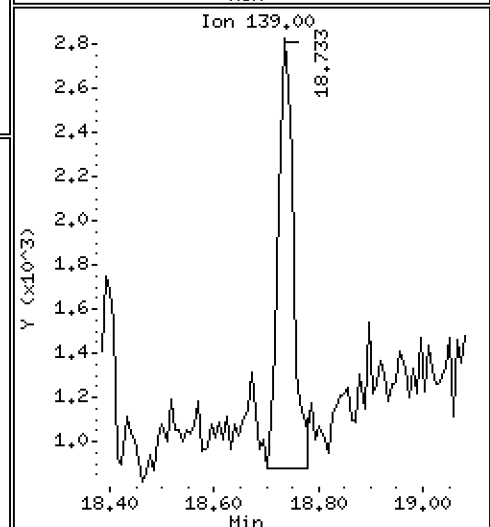
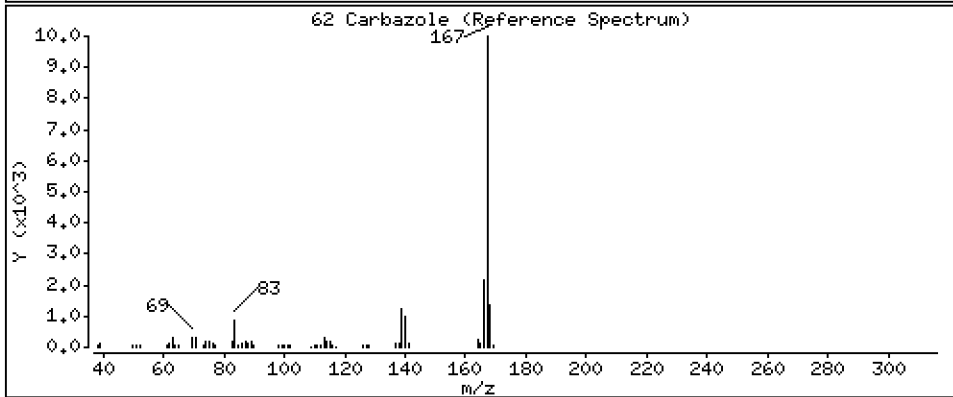
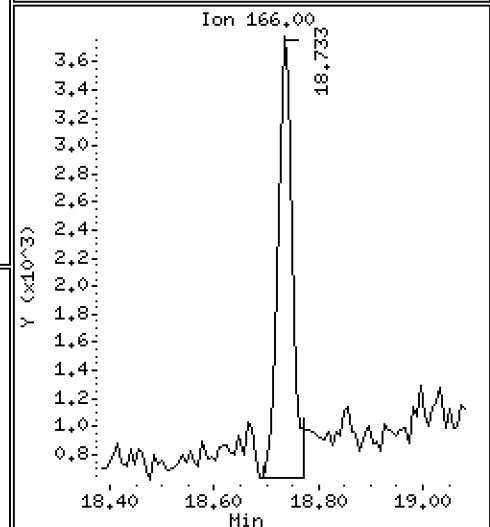
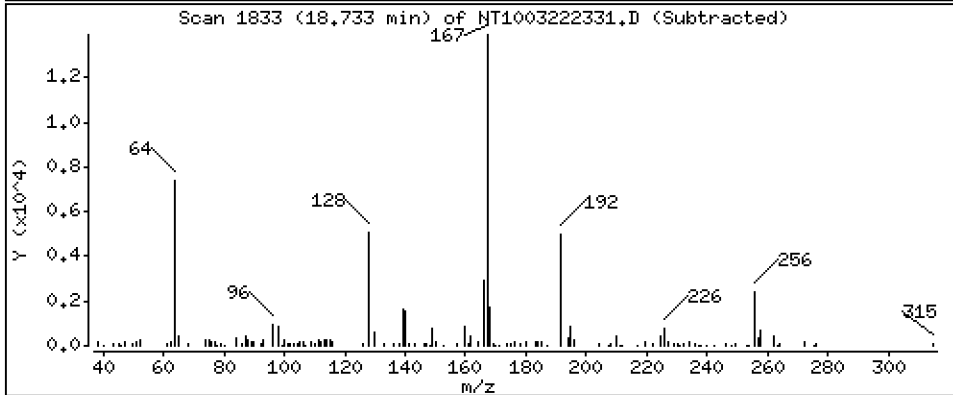
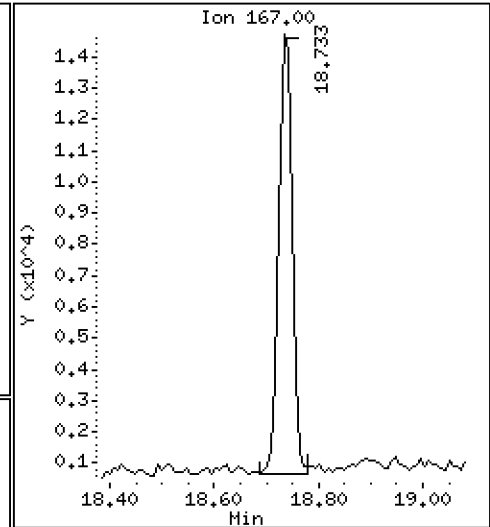
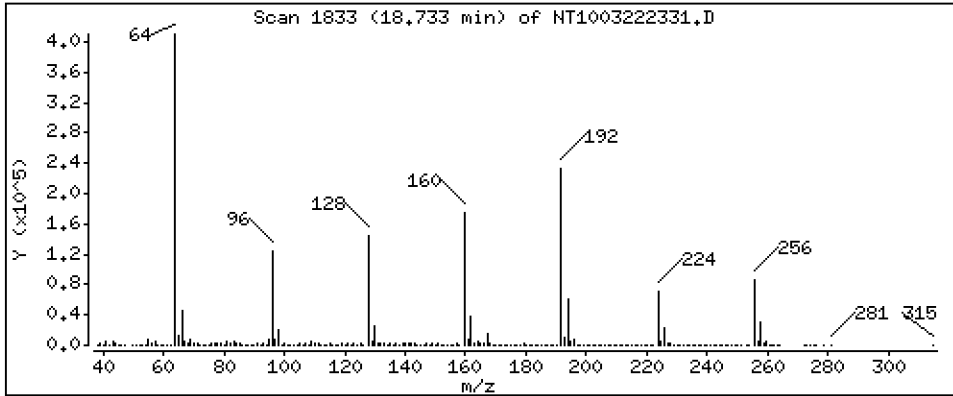
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 0,1829 ug/mL



Date : 23-MAR-2023 12:05

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-03RE1

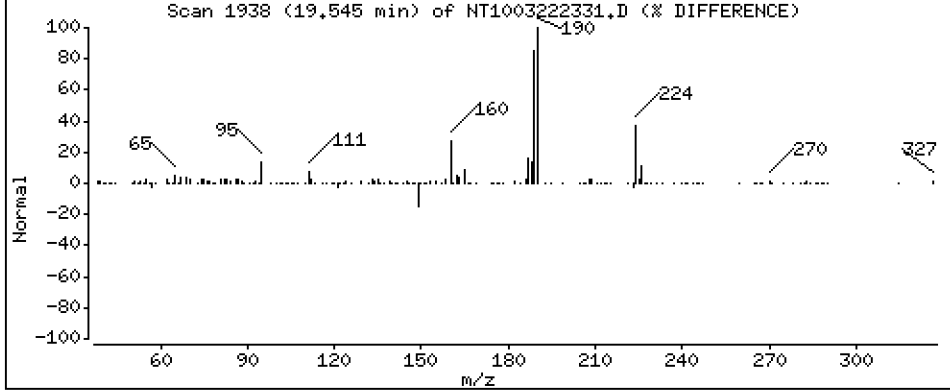
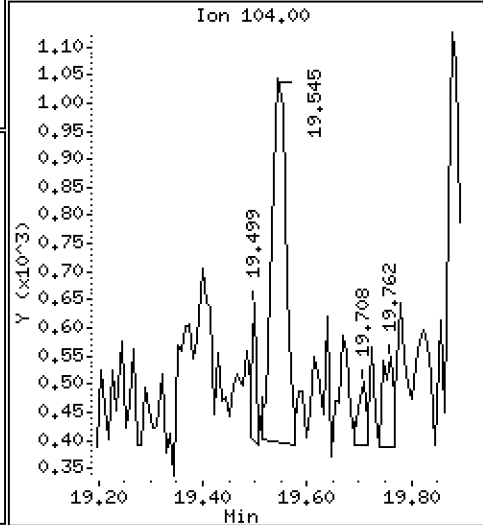
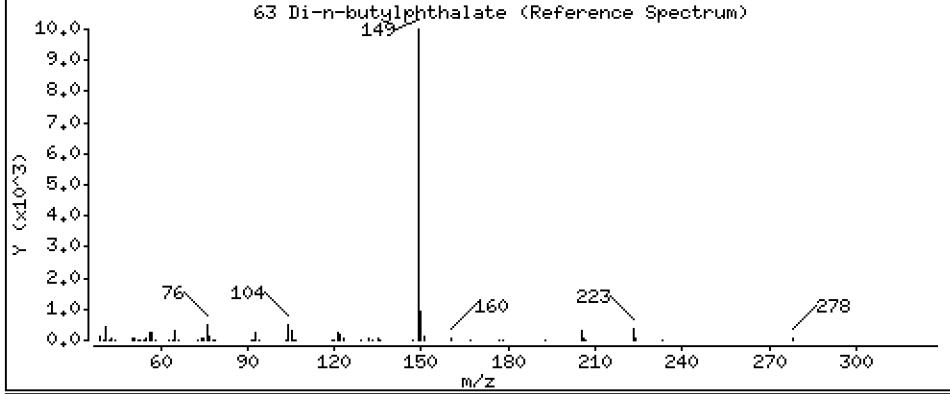
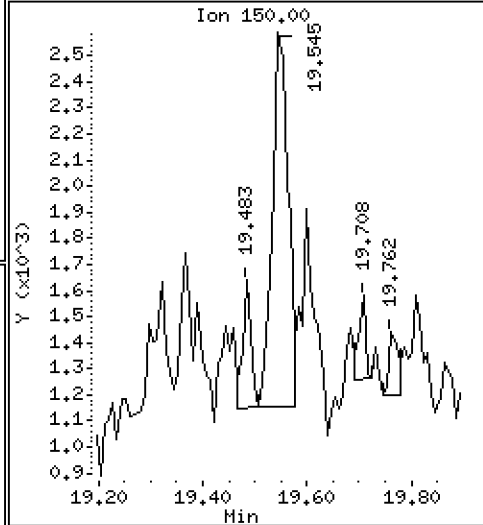
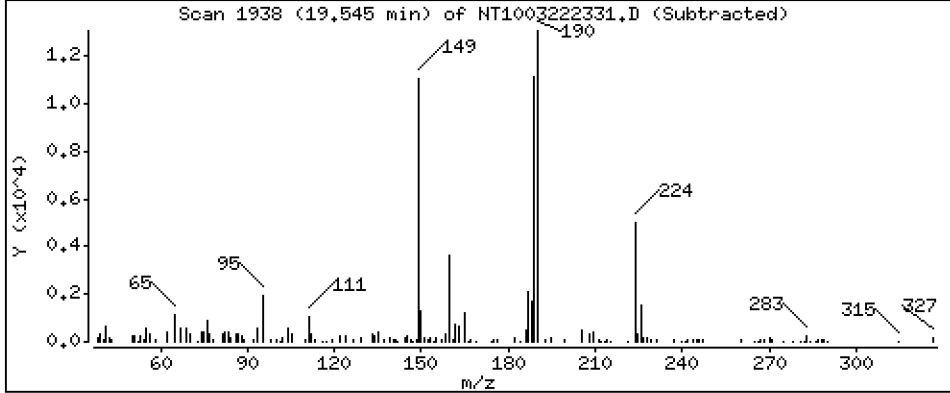
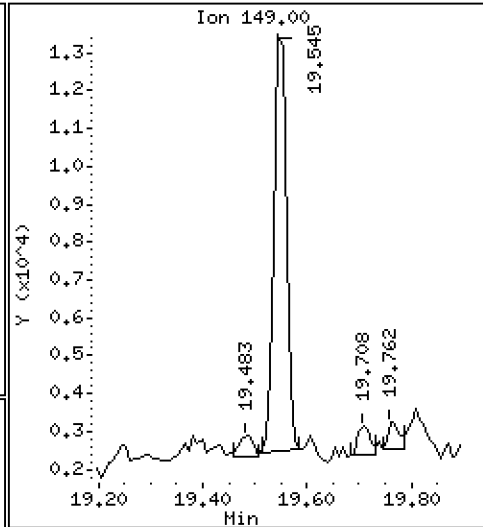
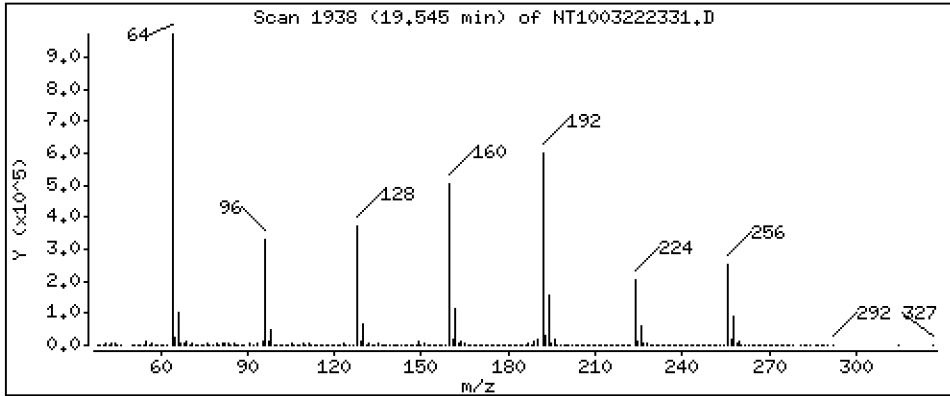
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

63 Di-n-butylphthalate

Concentration: 0.09563 ug/mL



Date : 23-MAR-2023 12:05

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-03RE1

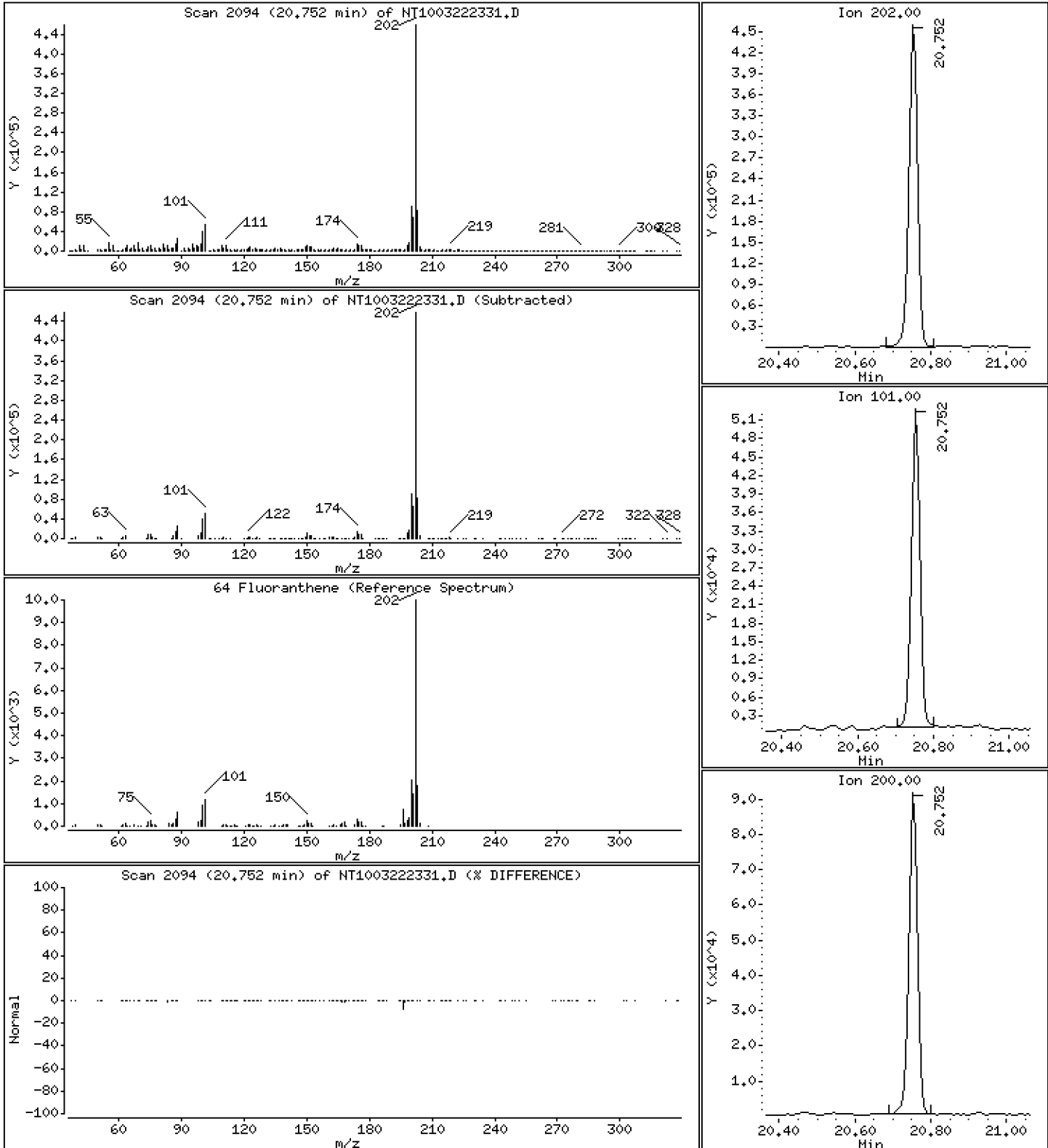
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 3,761 ug/mL



Date : 23-MAR-2023 12:05

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-03RE1

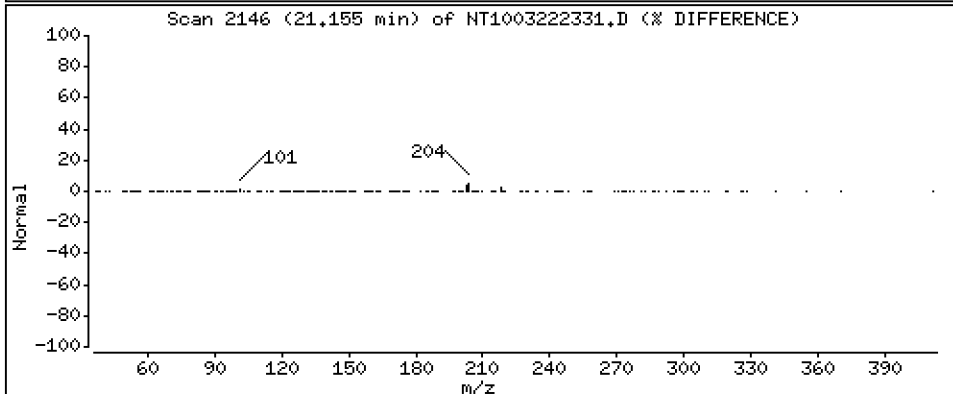
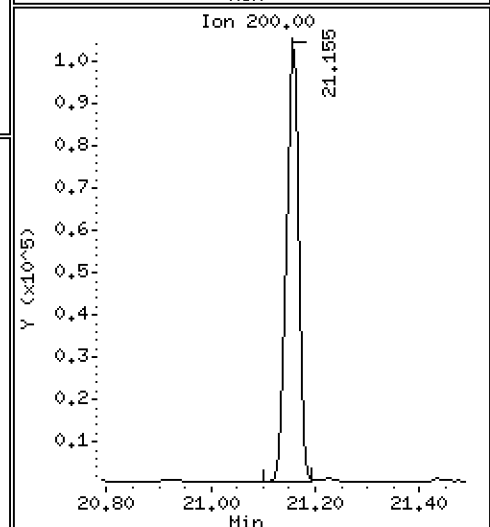
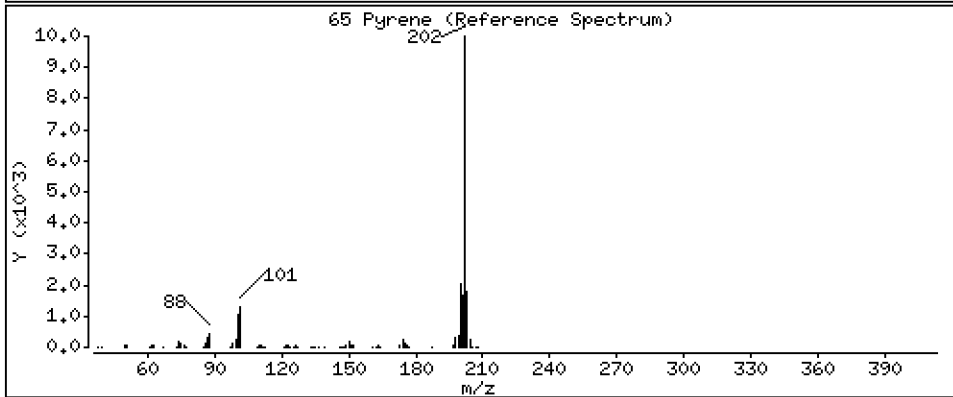
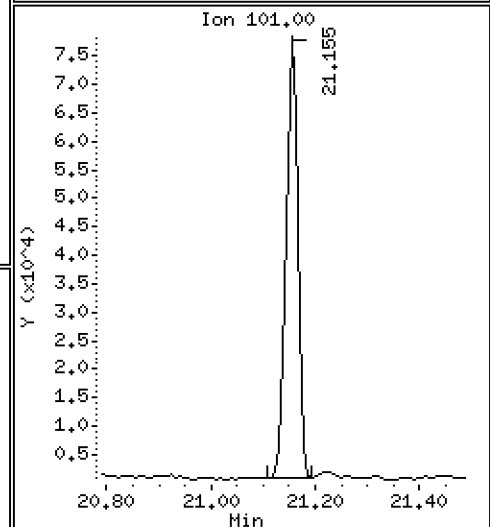
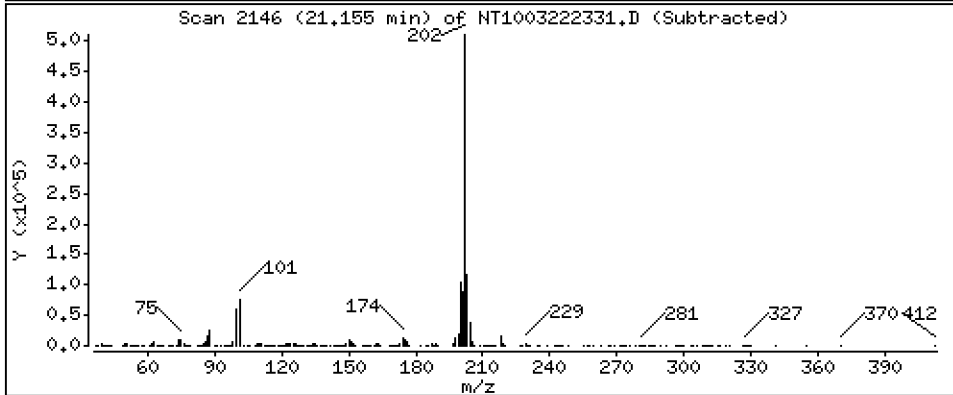
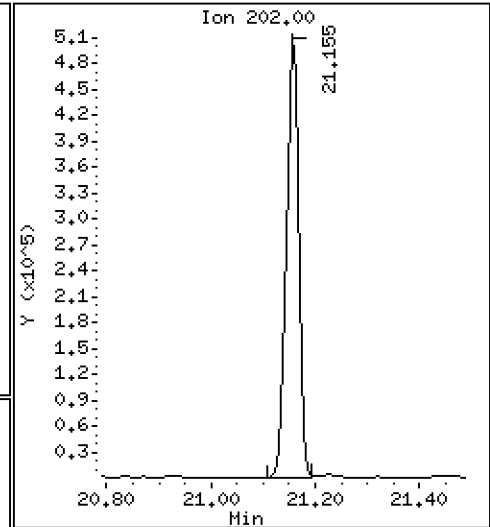
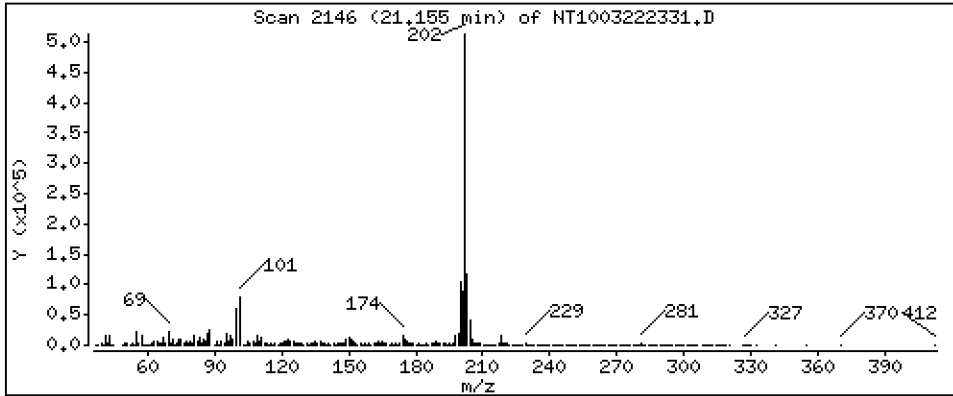
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 3,943 ug/mL



Date : 23-MAR-2023 12:05

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-03RE1

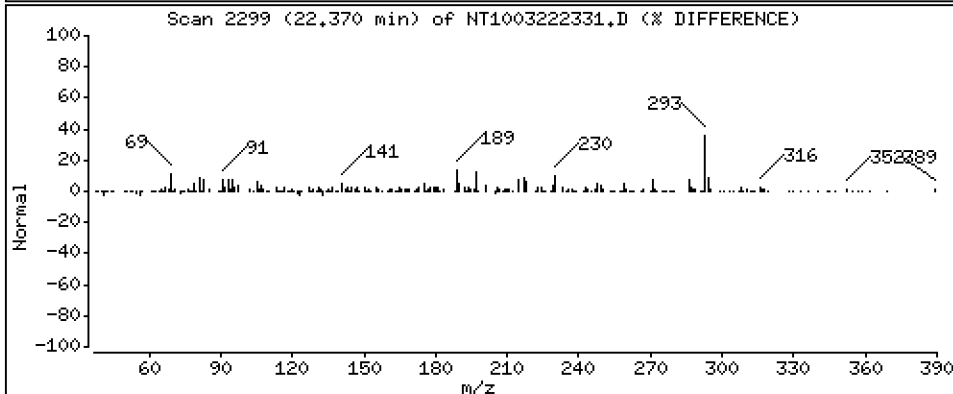
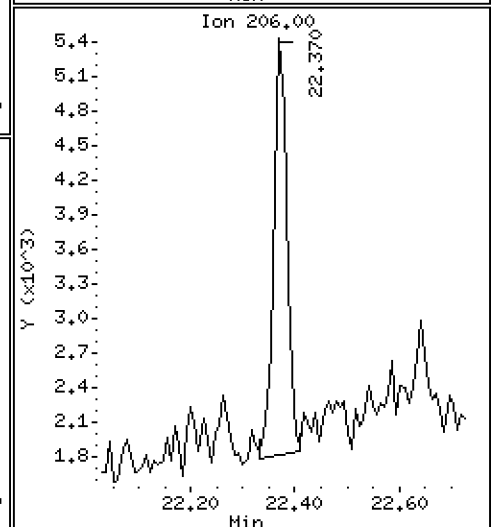
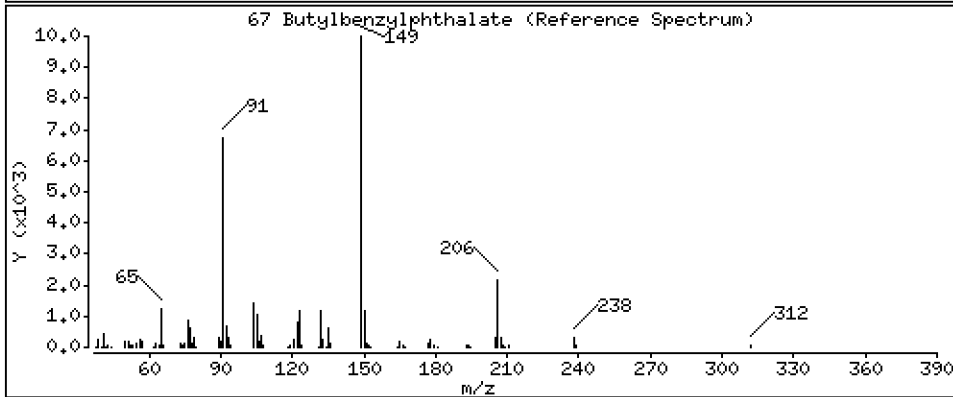
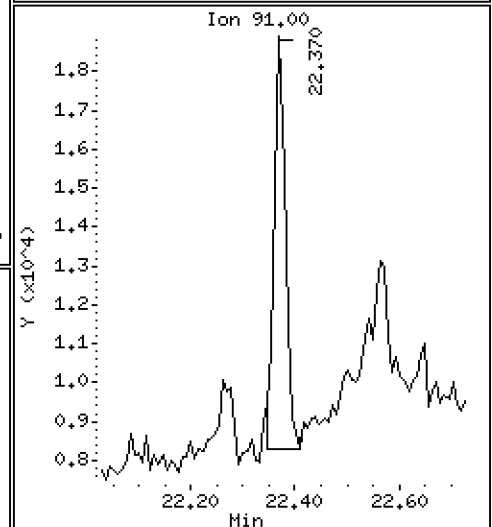
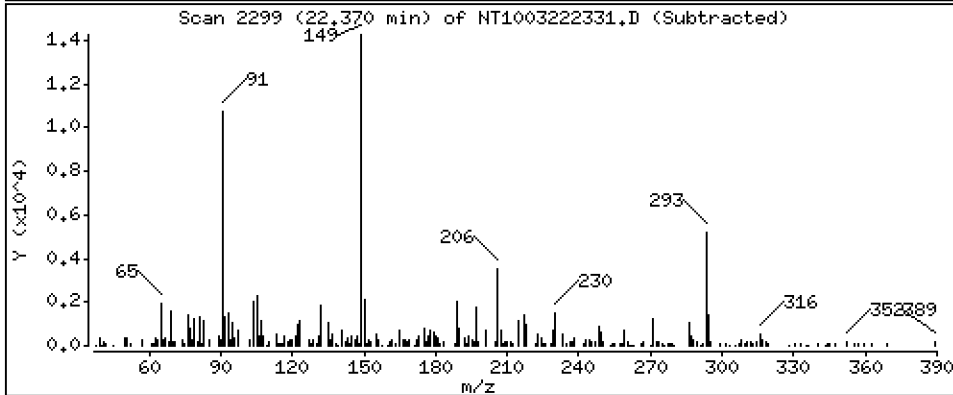
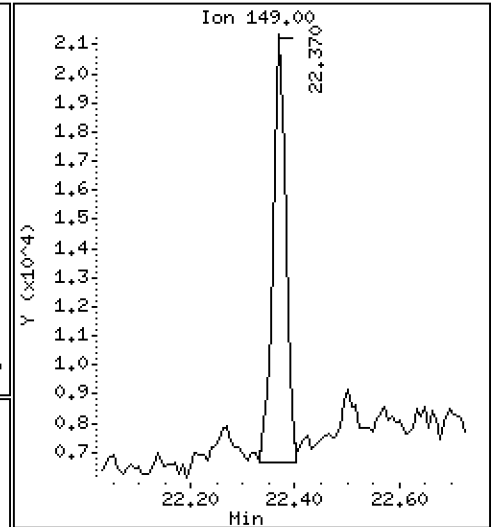
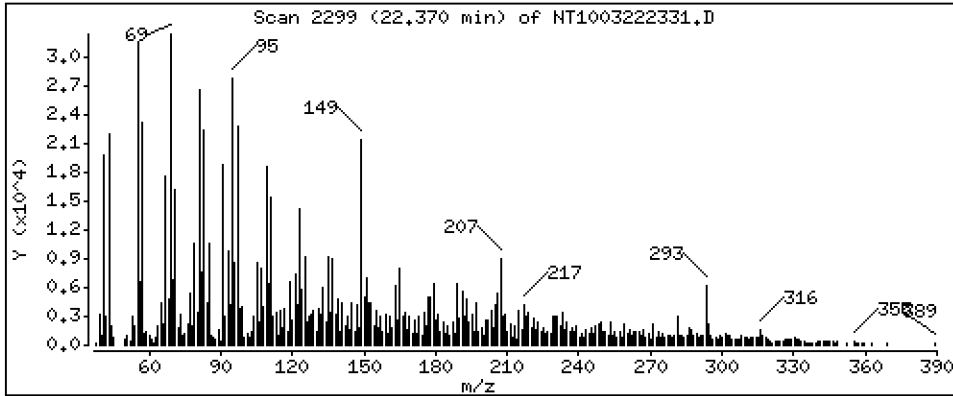
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

67 Butylbenzylphthalate

Concentration: 0.3241 ug/mL



Date : 23-MAR-2023 12:05

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-03RE1

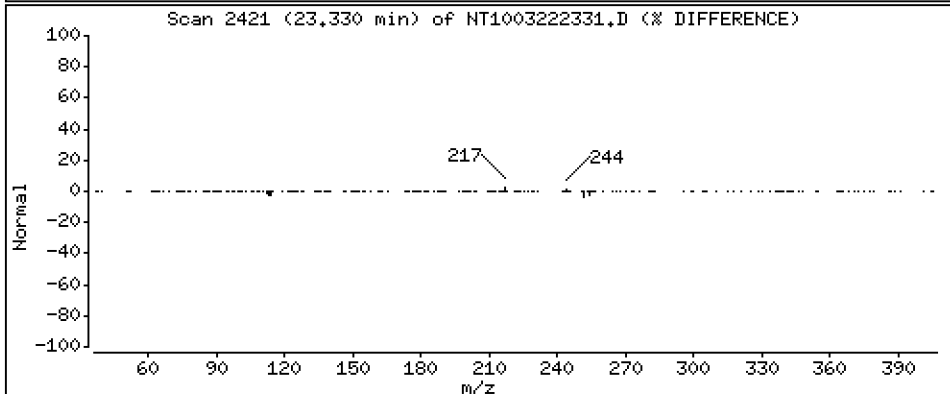
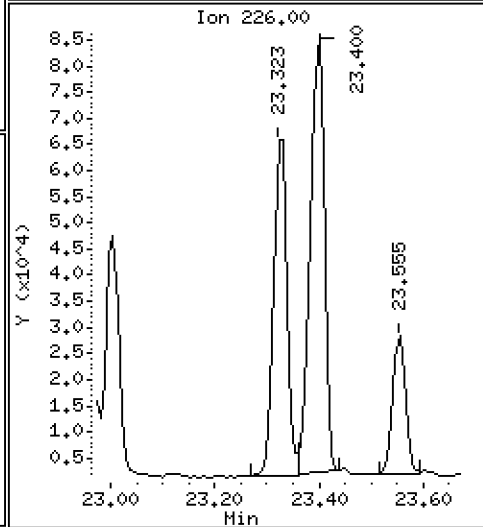
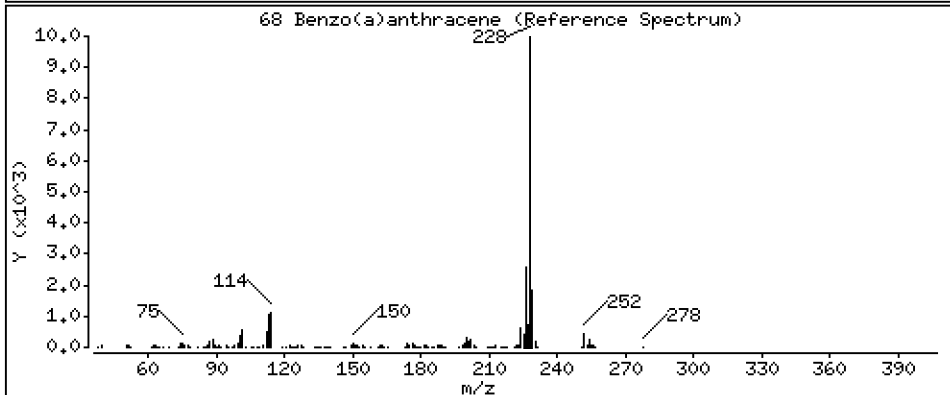
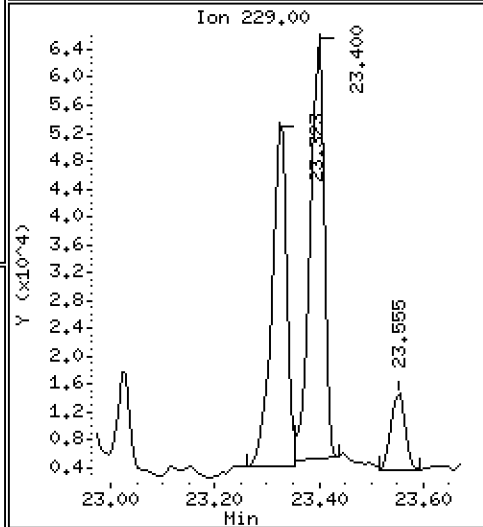
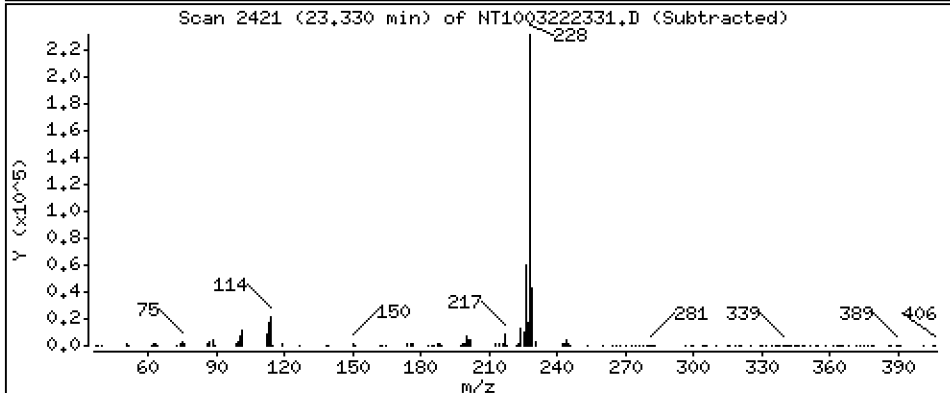
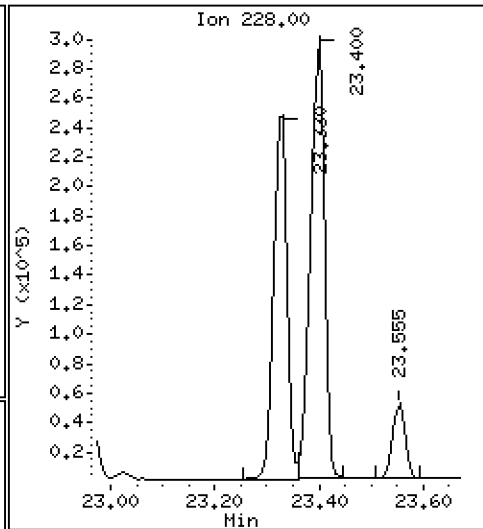
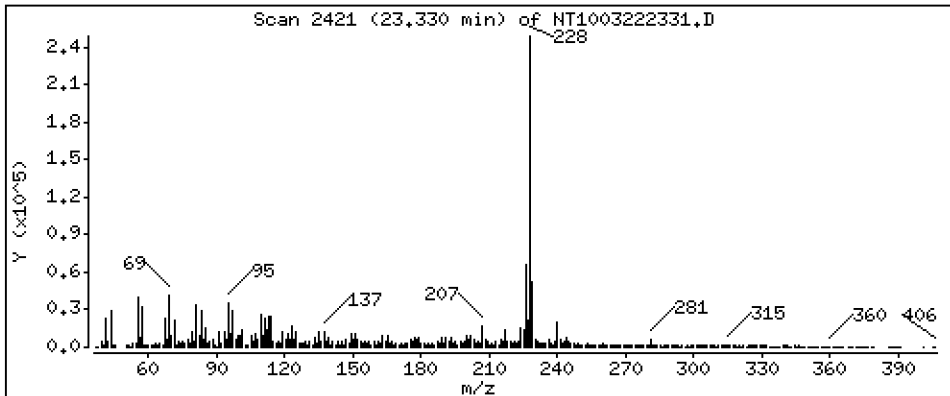
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 2,391 ug/mL



Date : 23-MAR-2023 12:05

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-03RE1

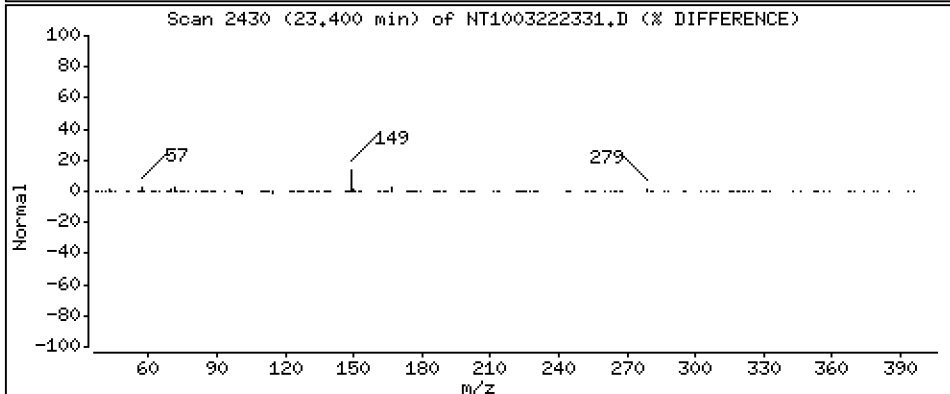
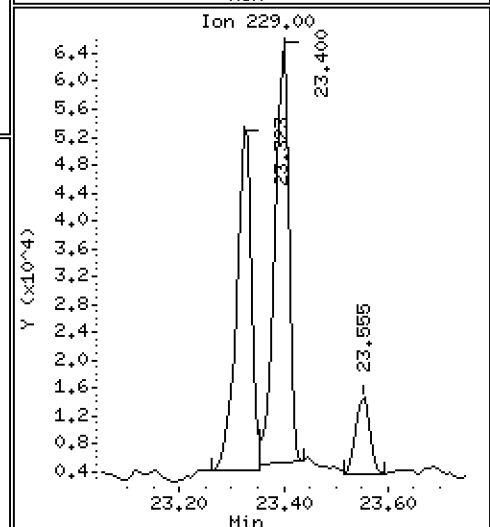
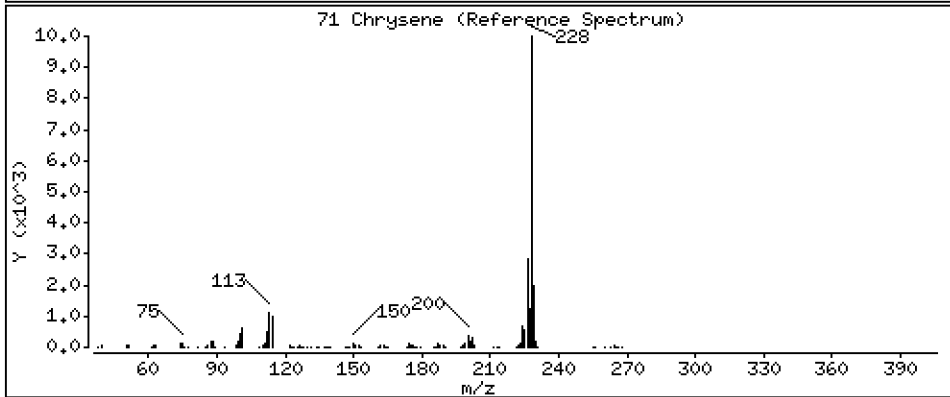
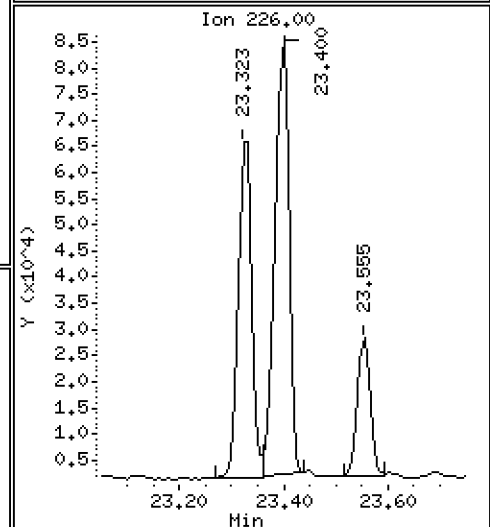
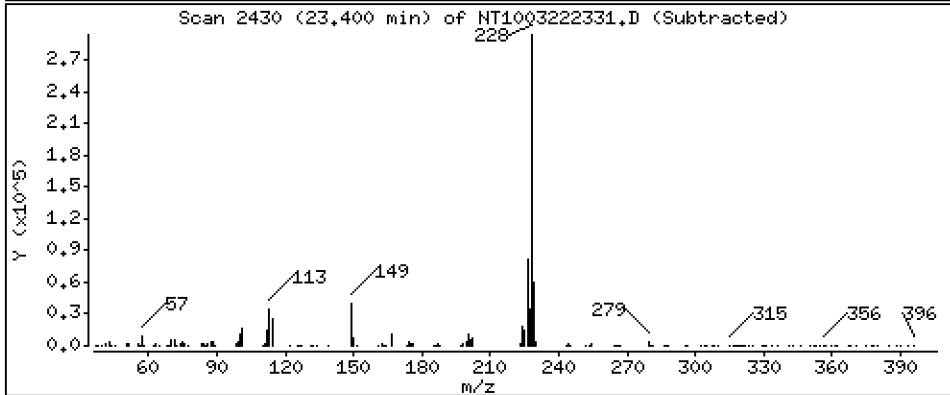
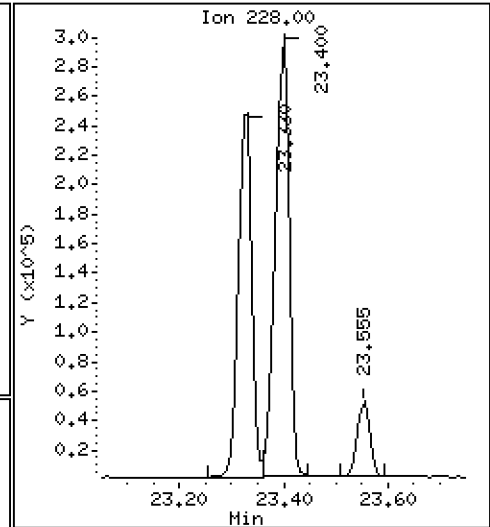
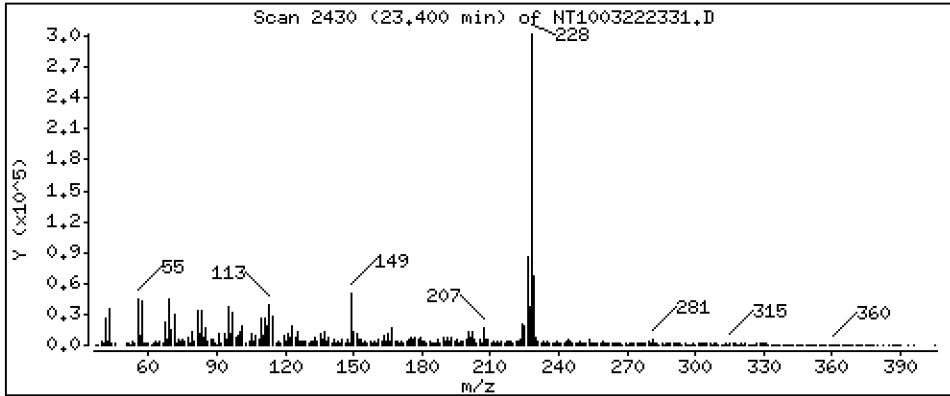
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 2,997 ug/mL



Date : 23-MAR-2023 12:05

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-03RE1

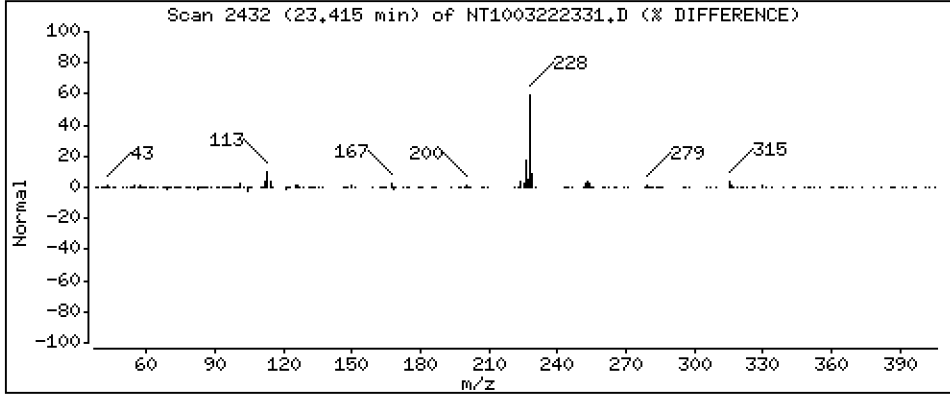
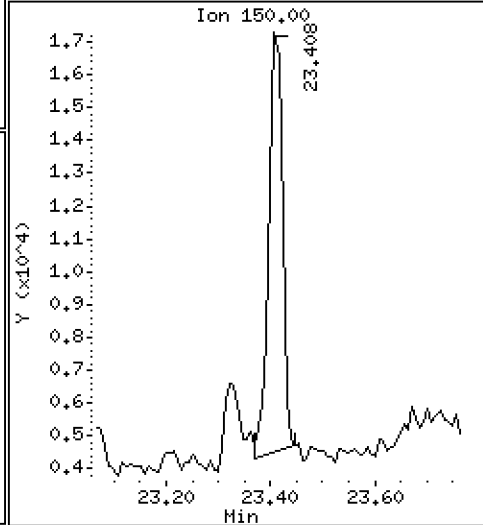
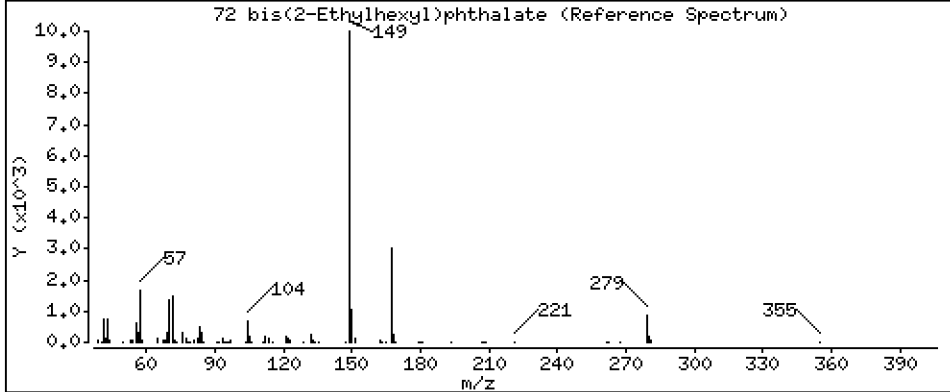
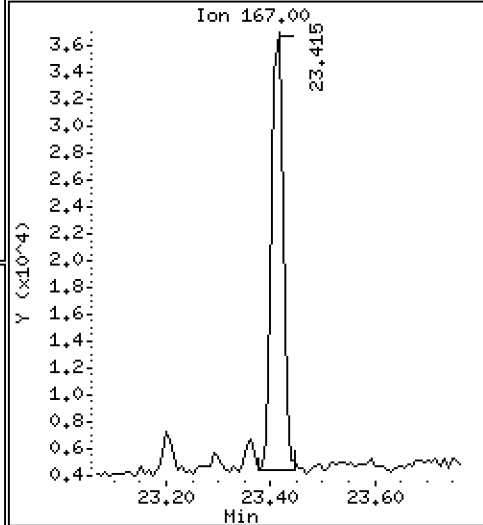
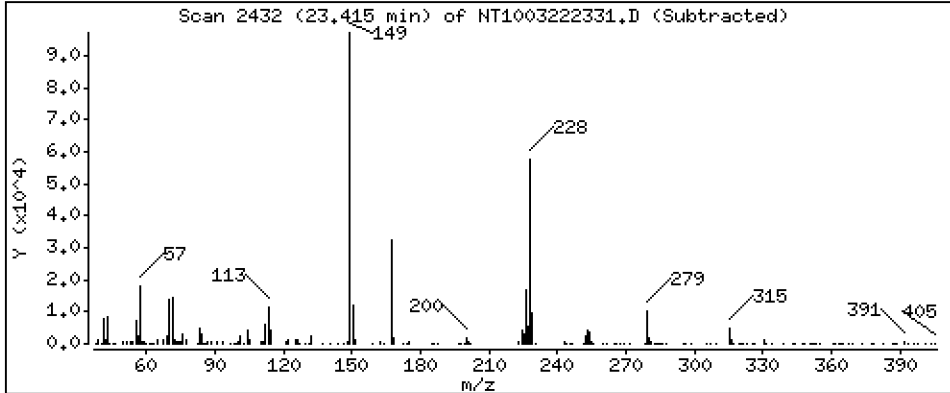
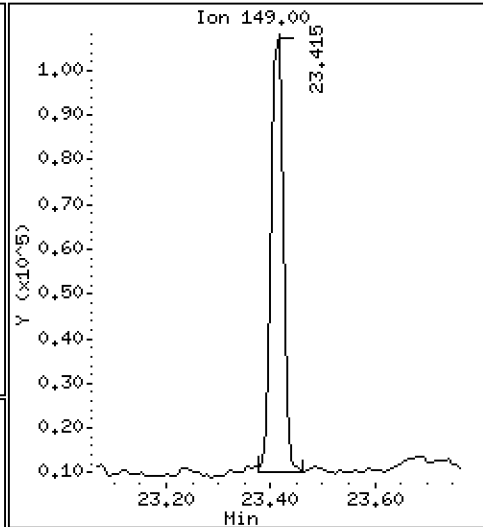
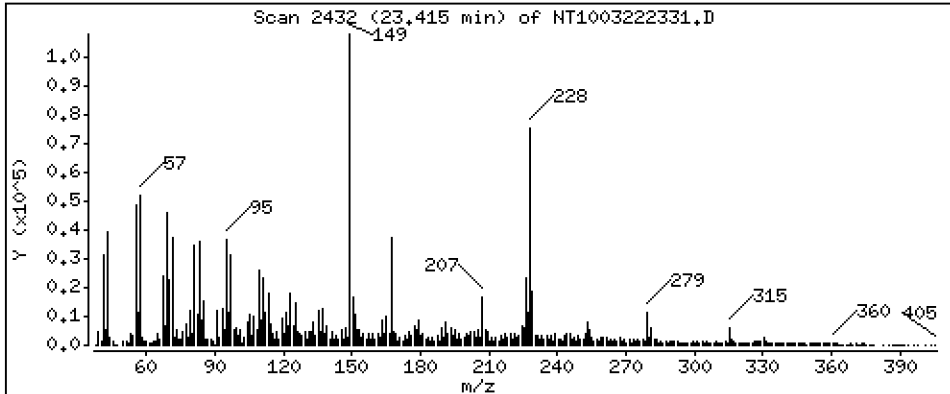
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 1,215 ug/mL



Date : 23-MAR-2023 12:05

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-03RE1

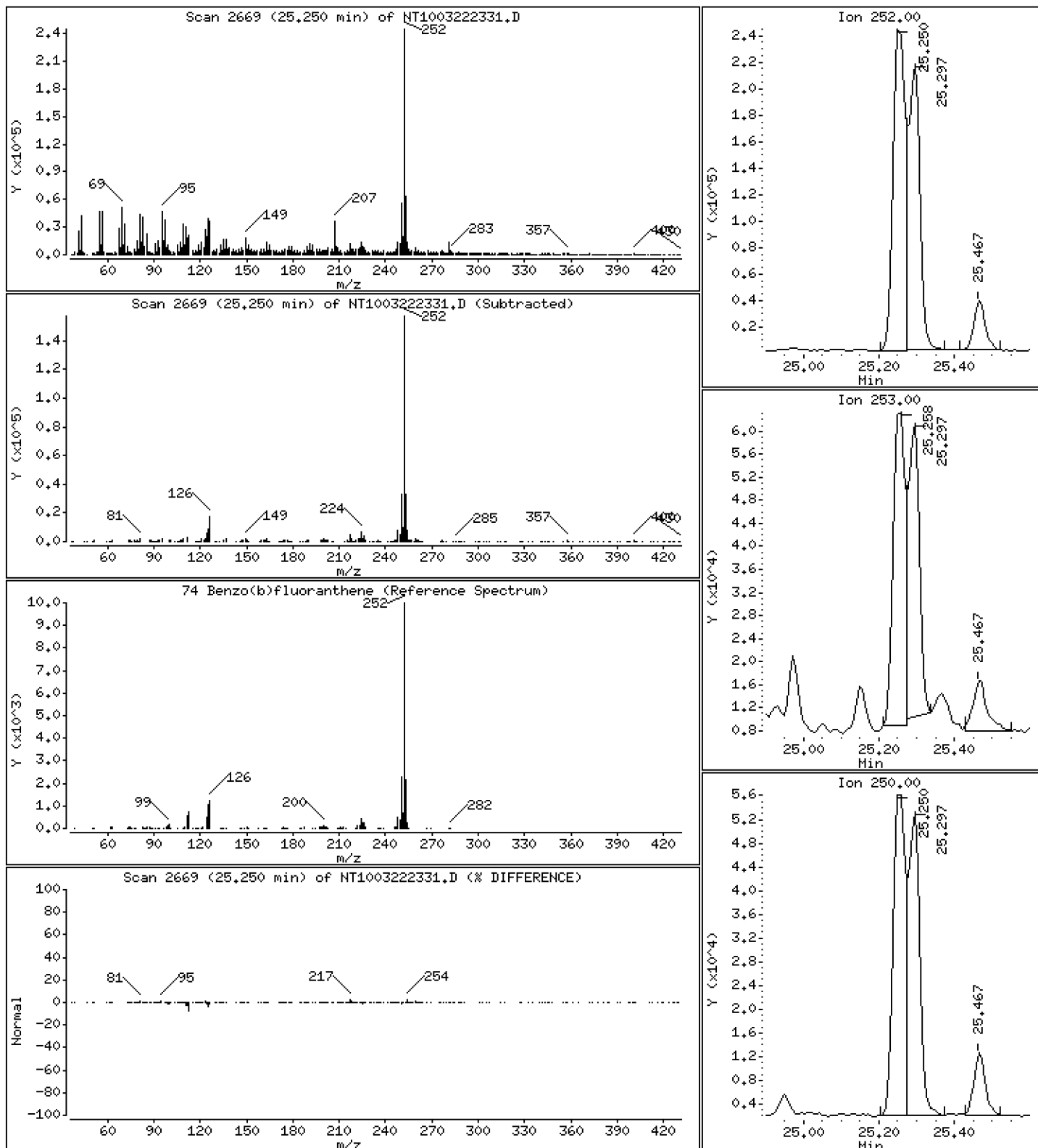
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 3,065 ug/mL



Date : 23-MAR-2023 12:05

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-03RE1

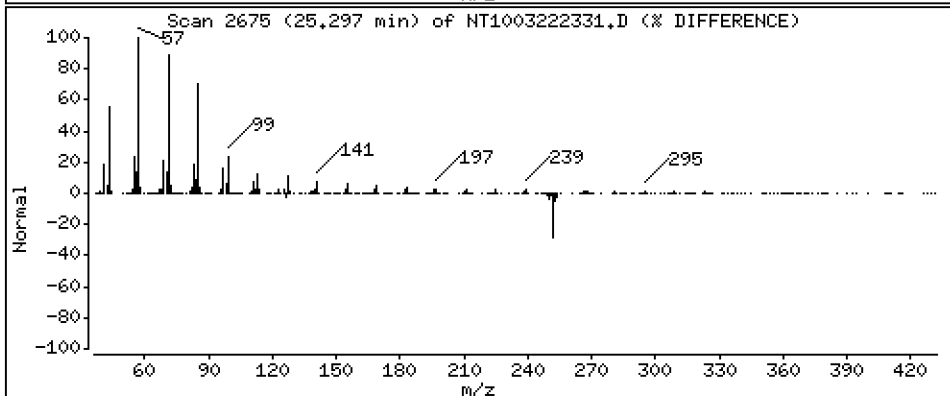
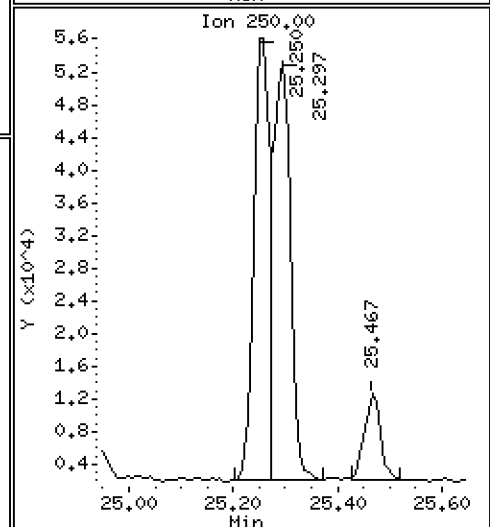
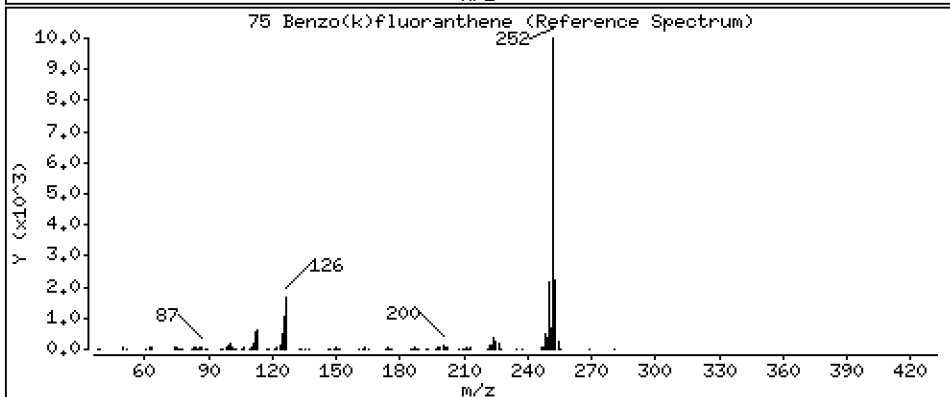
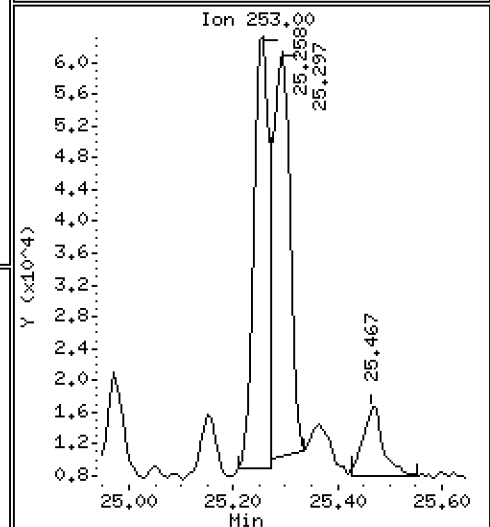
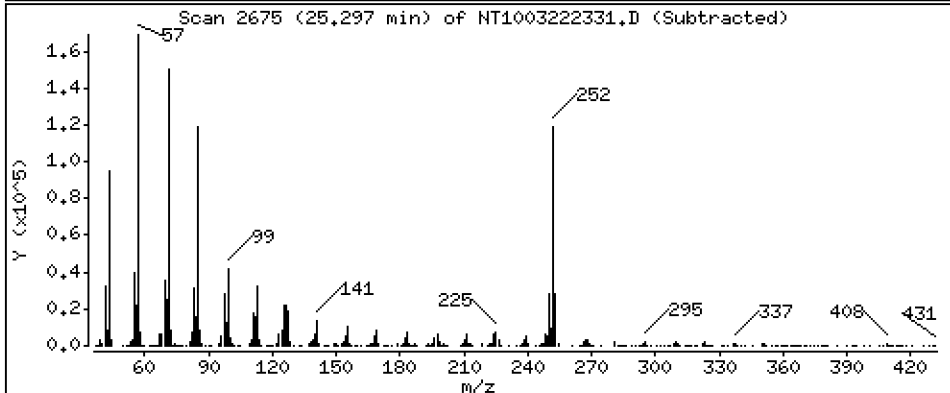
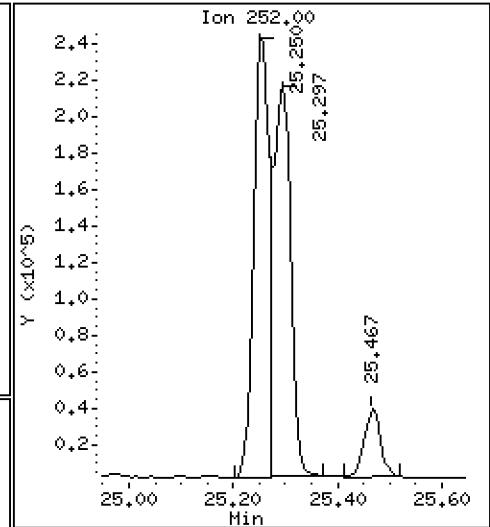
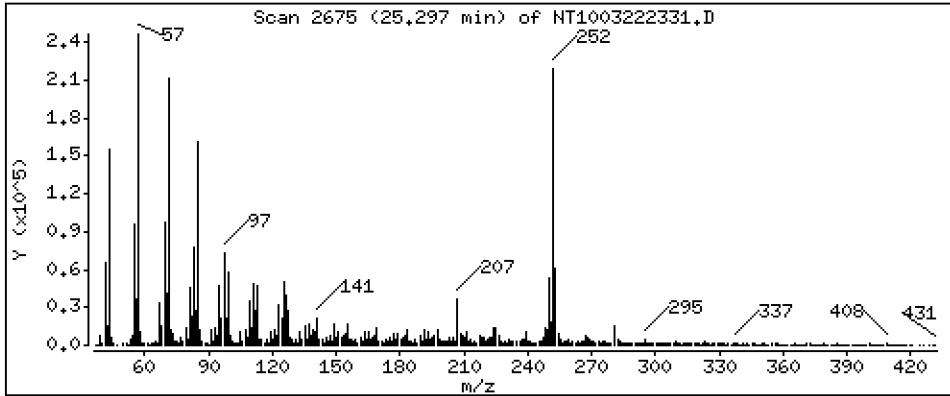
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 2,855 ug/mL



Date : 23-MAR-2023 12:05

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-03RE1

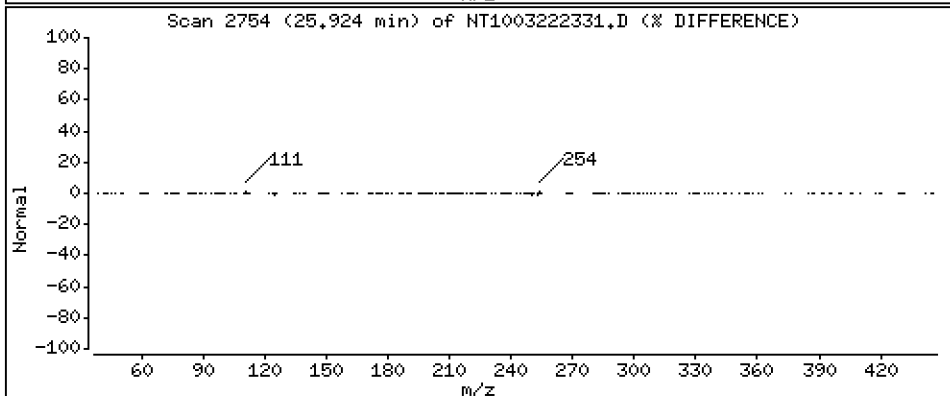
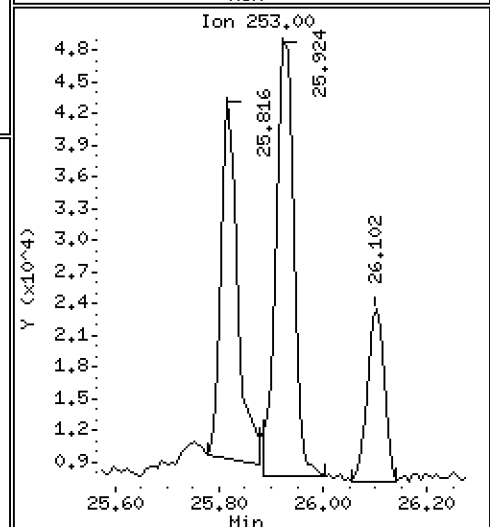
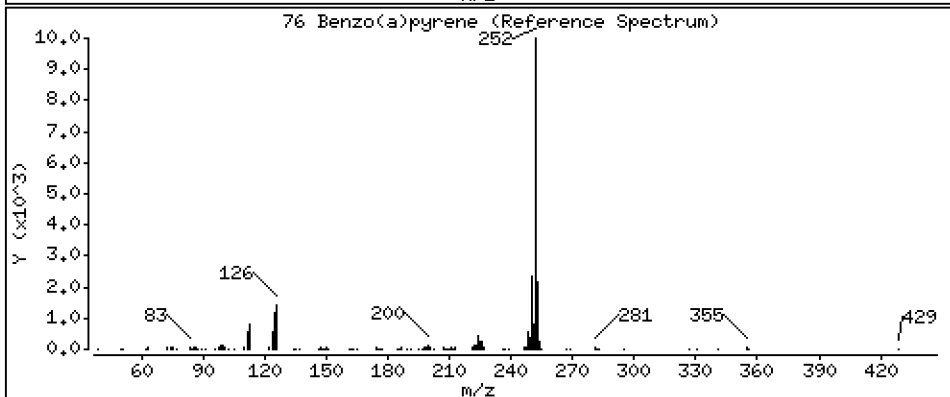
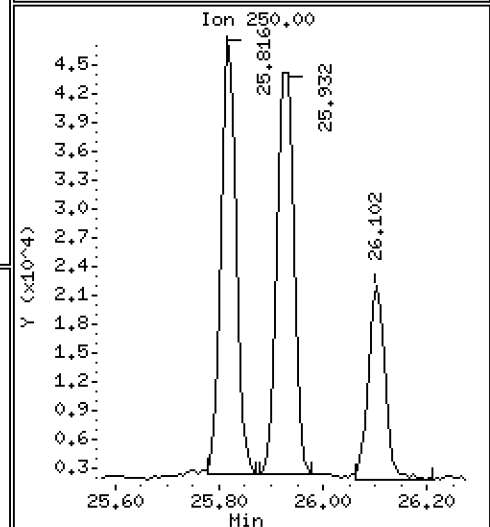
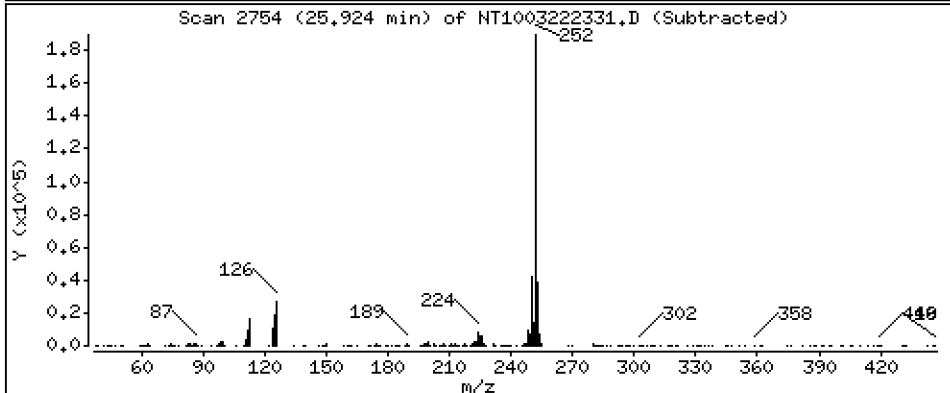
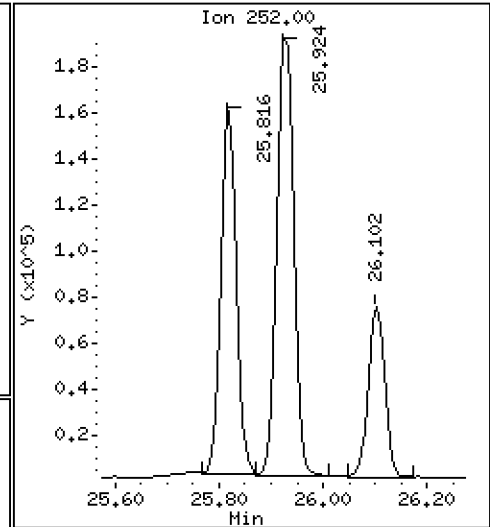
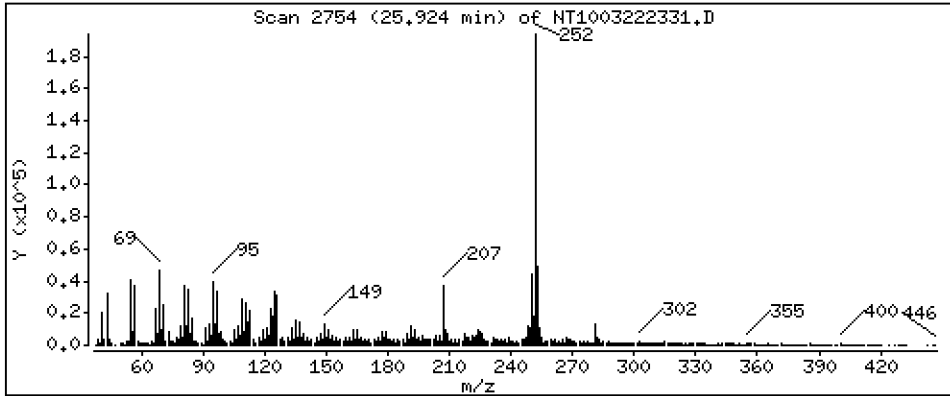
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 2,638 ug/mL



Date : 23-MAR-2023 12:05

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-03RE1

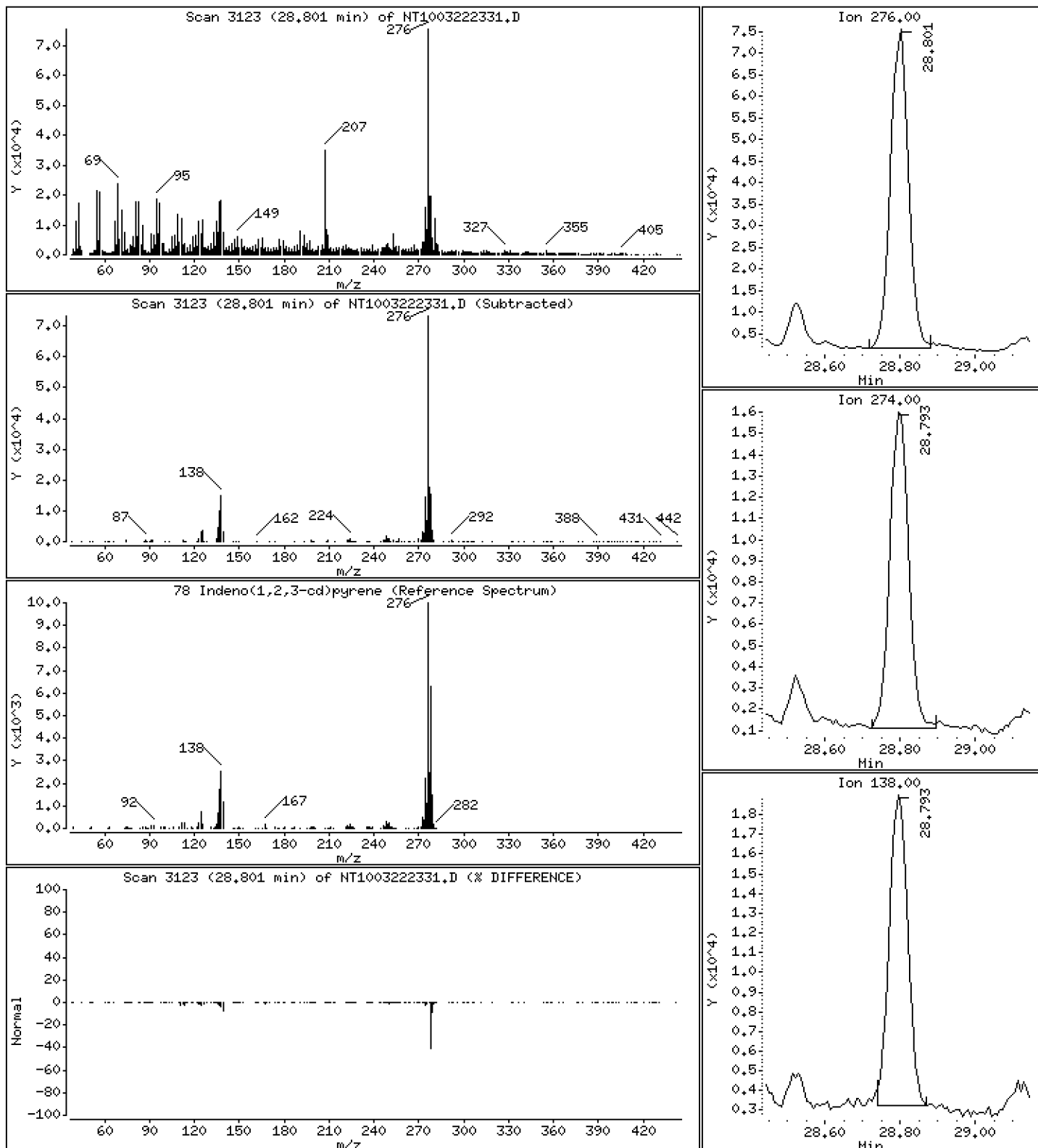
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 1,220 ug/mL



Date : 23-MAR-2023 12:05

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-03RE1

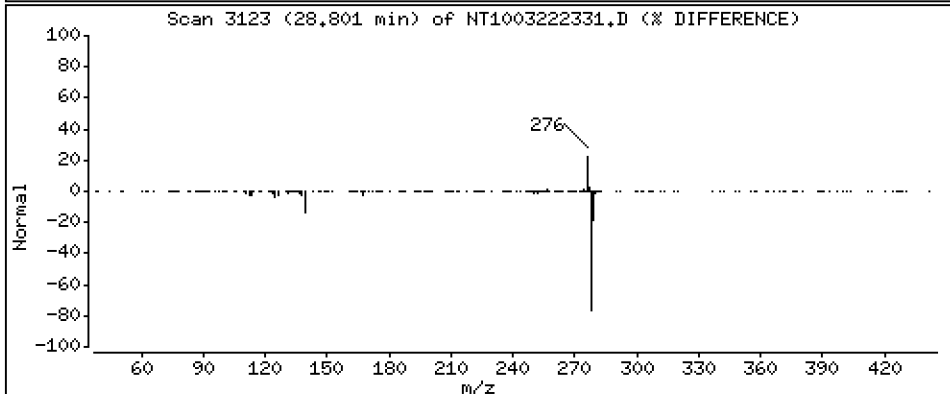
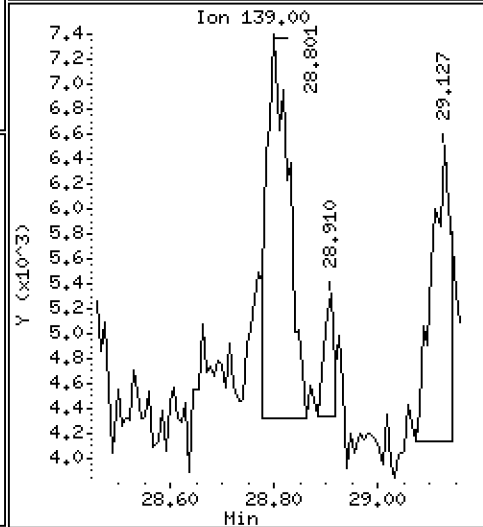
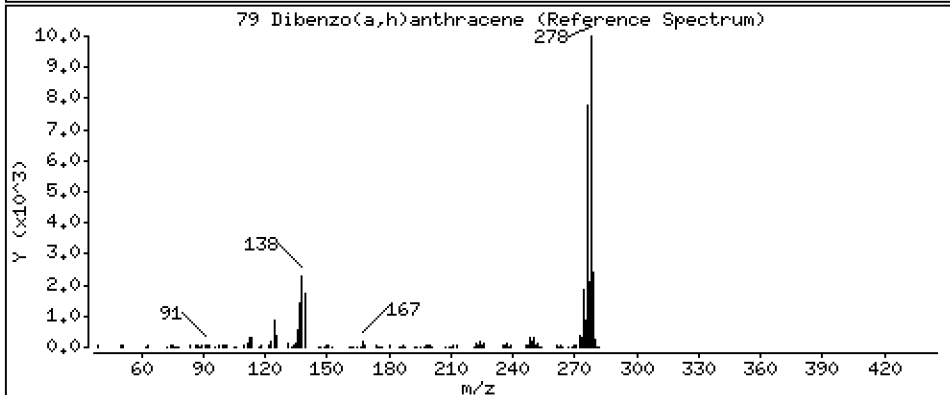
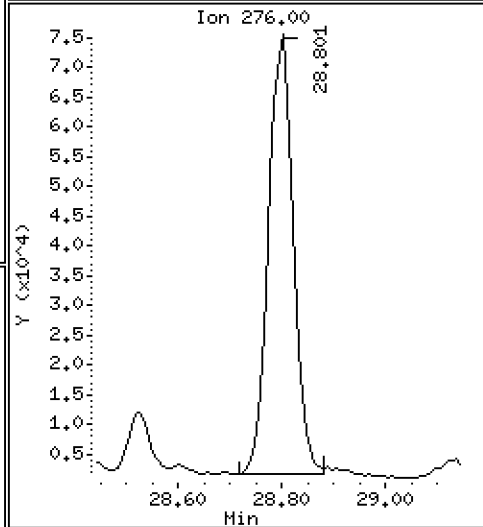
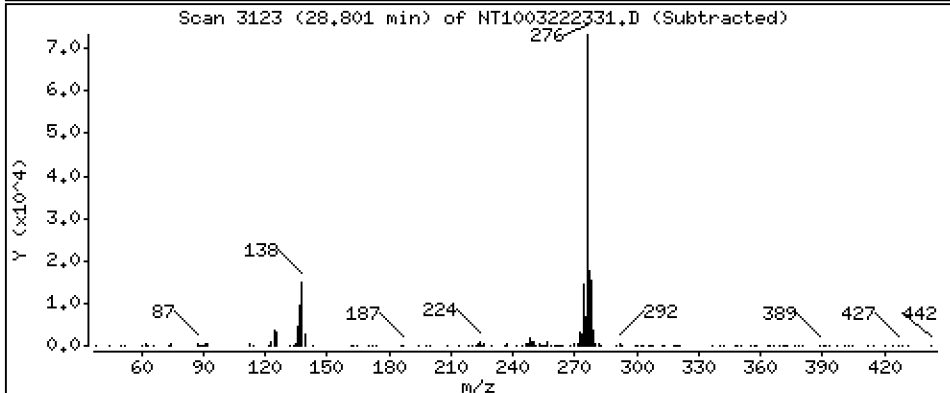
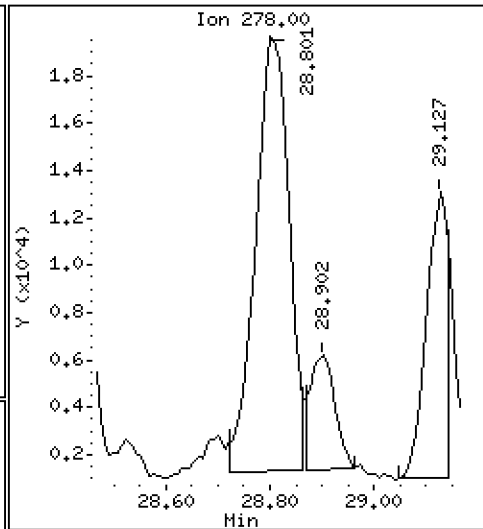
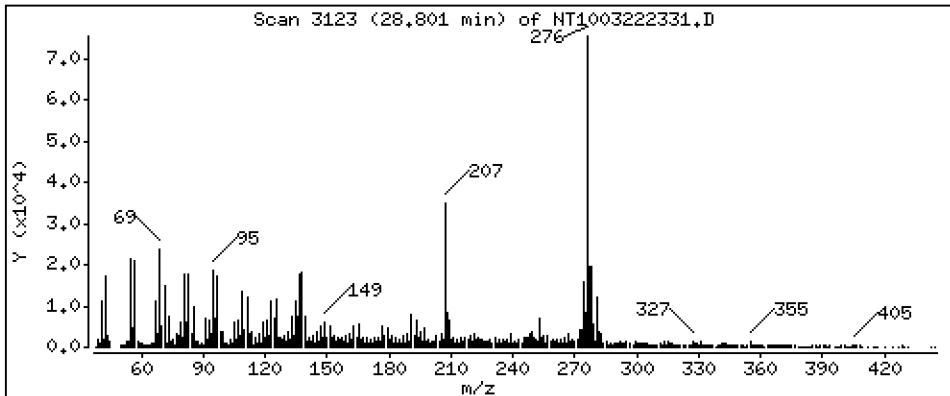
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 0,4989 ug/mL



Date : 23-MAR-2023 12:05

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-03RE1

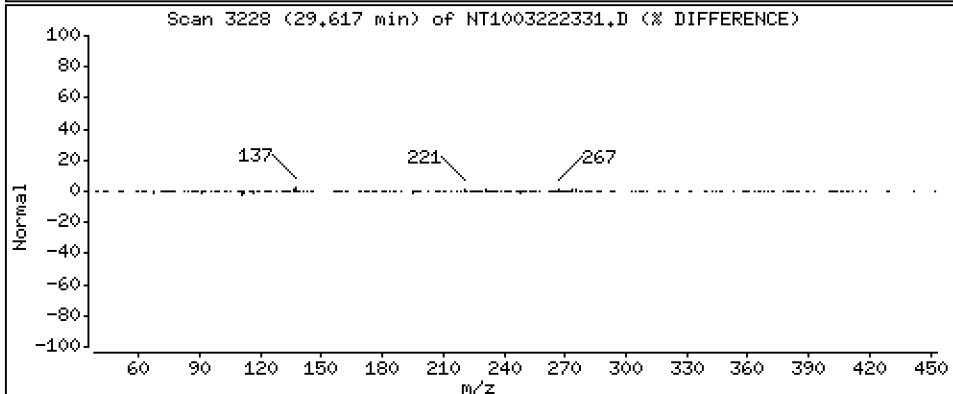
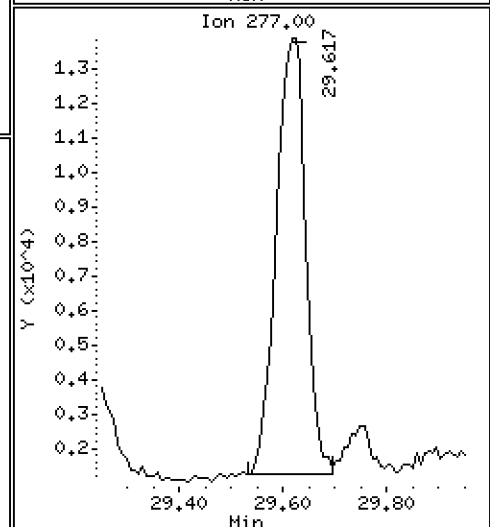
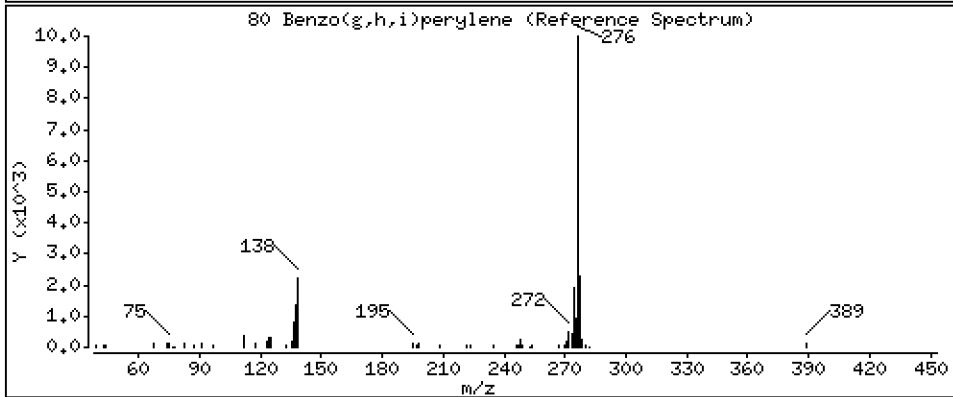
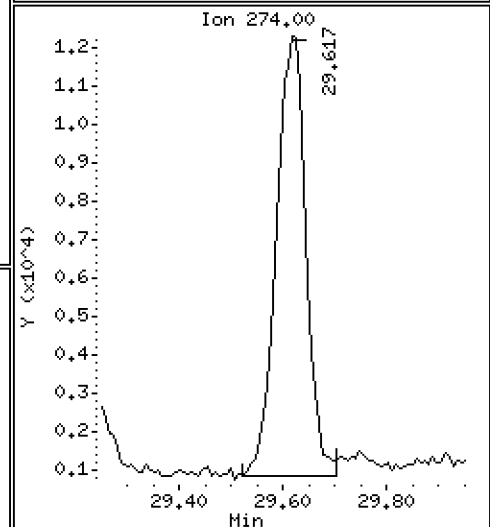
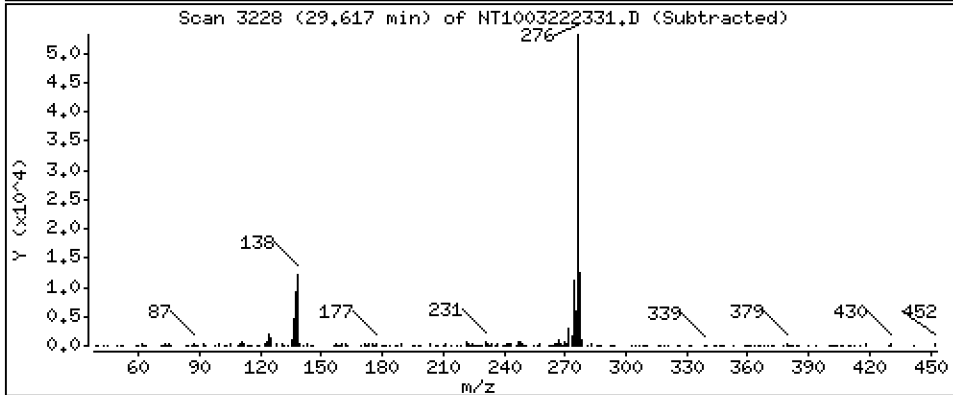
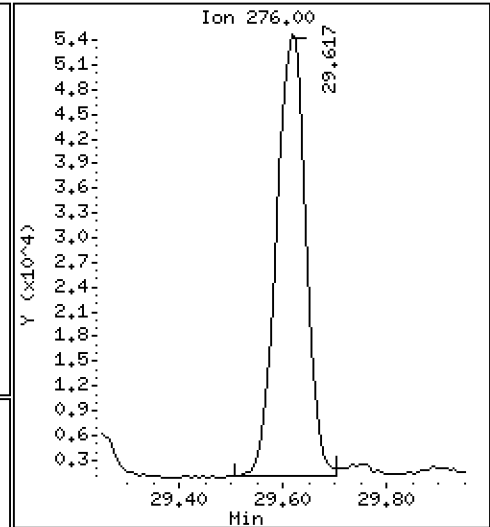
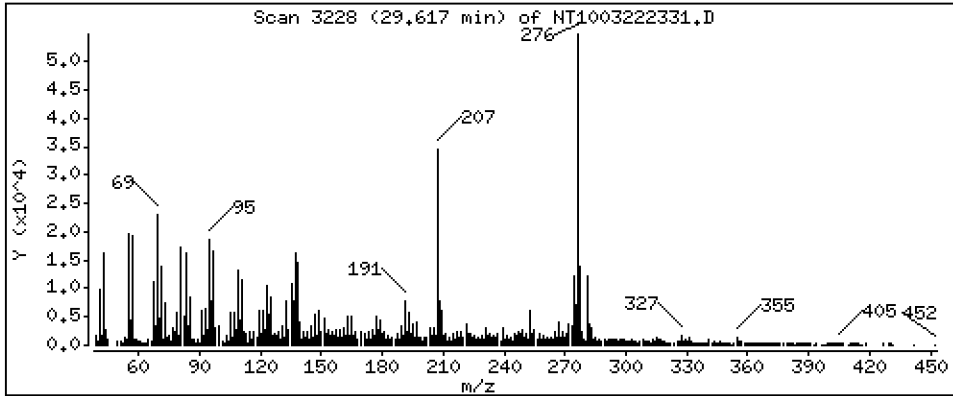
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 1,231 ug/mL



Date : 23-MAR-2023 12:05

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-03RE1

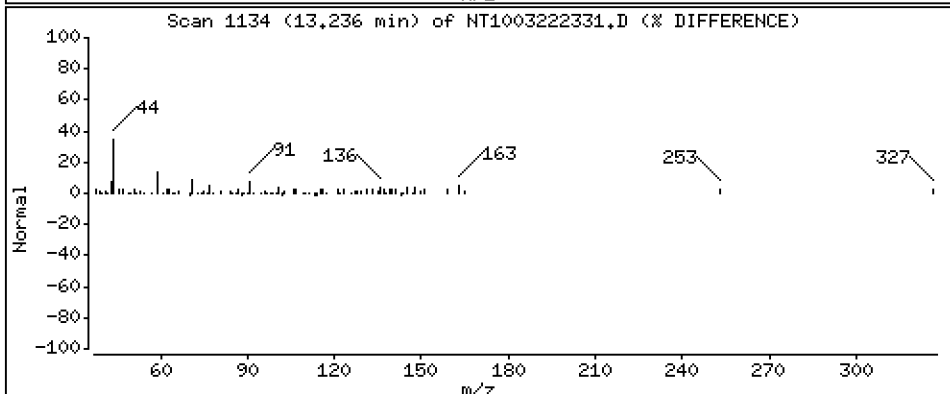
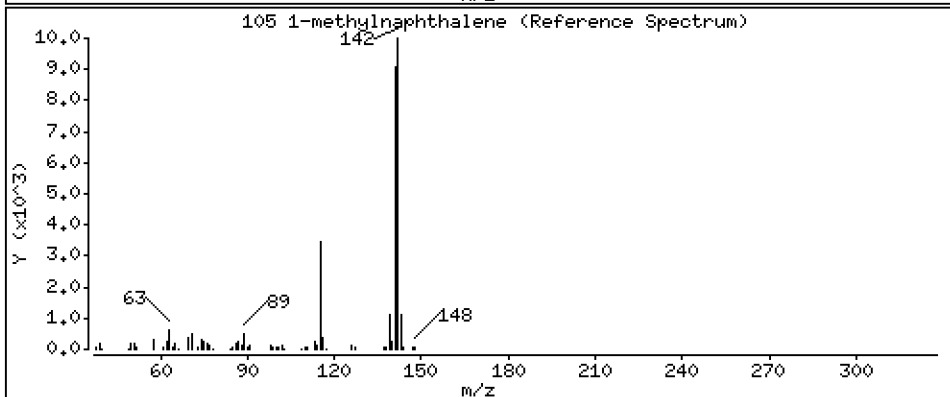
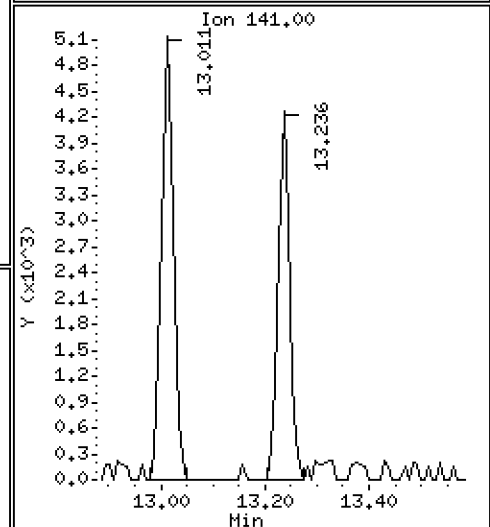
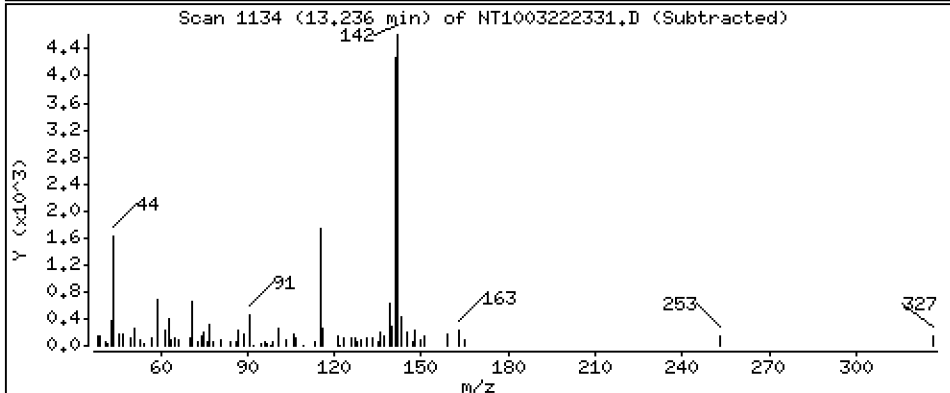
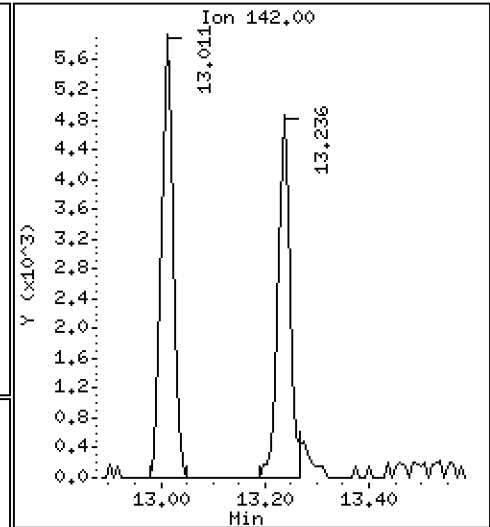
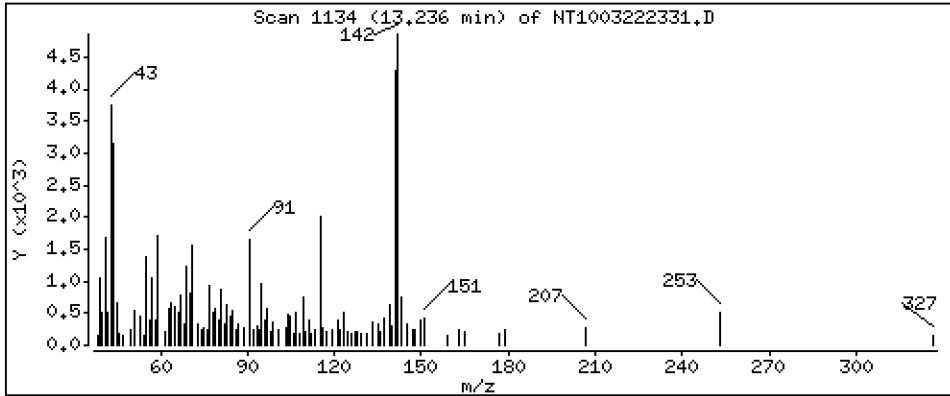
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 0,08038 ug/mL



Date : 23-MAR-2023 12:05

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-03RE1

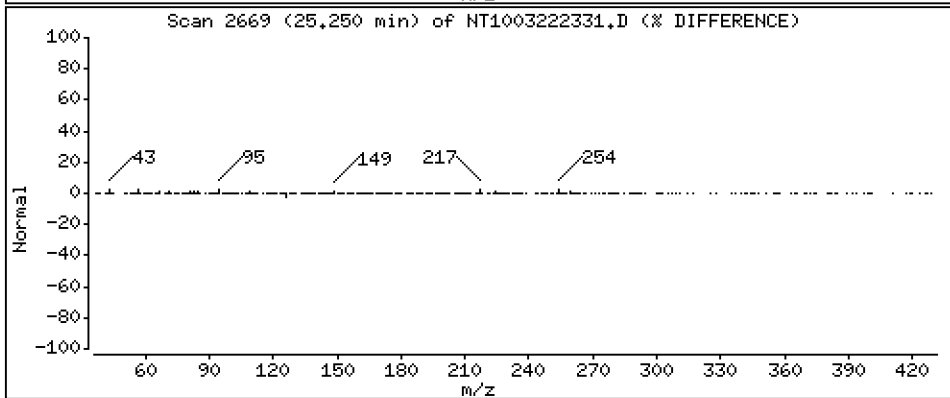
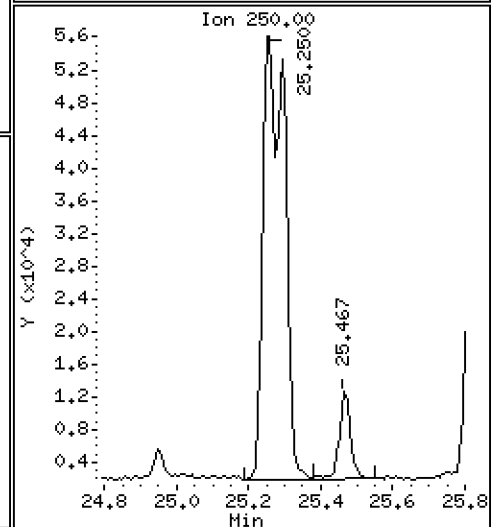
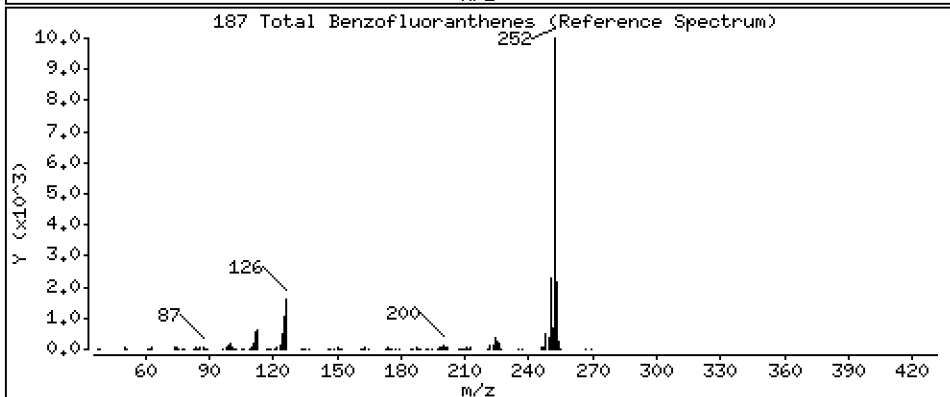
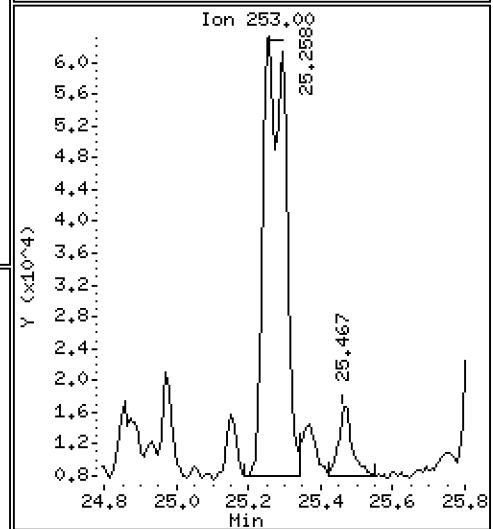
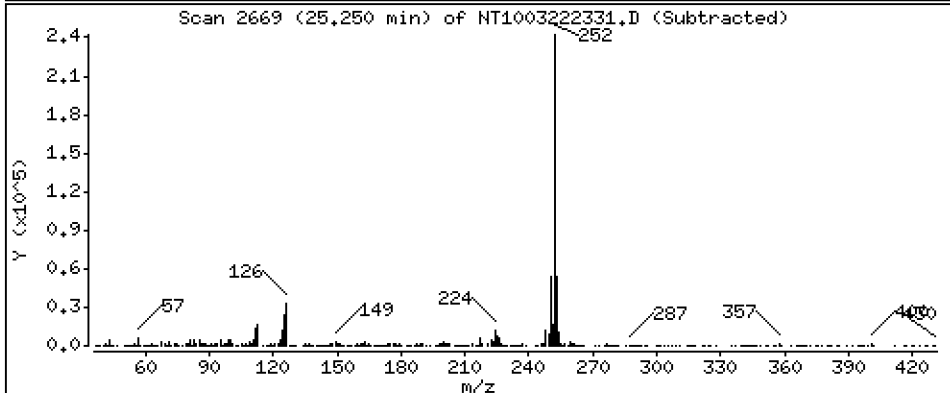
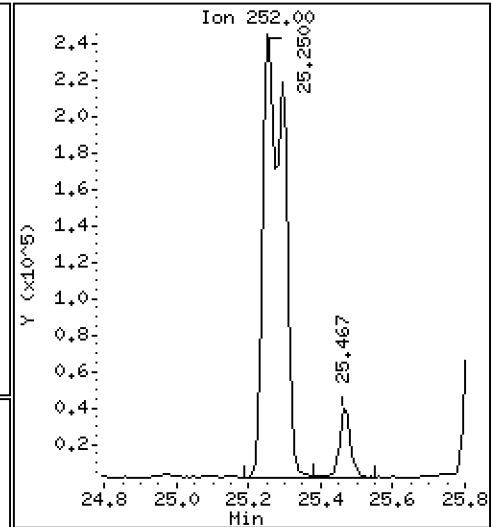
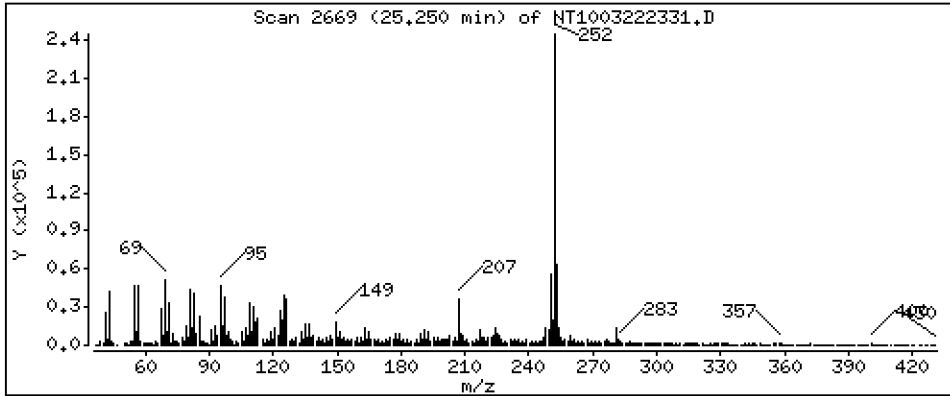
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 5,751 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230322.b\NT1003222331.D
 Lab Smp Id: 23A0180-03RE1
 Inj Date : 23-MAR-2023 12:05
 Operator : VTS
 Smp Info : 23A0180-03RE1
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt10.i\20230322.b\ABN.m
 Meth Date : 25-Mar-2023 10:11 van
 Cal Date : 16-MAR-2023 00:22
 Als bottle: 26
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: VANS-201906

Inst ID: nt10.i

Quant Type: ISTD
 Cal File: NT10031508.D

Compound Sublist: ICAL.sub

| Compounds | QUANT | SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|---------------------------------|-------|-----|------------------------|--------|---------|----------|----------------|------------|
| | | | | | | | ON-COLUMN | FINAL |
| | MASS | | | | | | (ug/mL) | (ug/mL) |
| \$ 1 2-Fluorophenol | 112 | | 6.867 | 6.851 | (0.756) | 246429 | 5.69687 | 5.697 |
| \$ 2 Phenol-d5 | 99 | | 8.458 | 8.450 | (0.931) | 332594 | 5.86103 | 5.861 |
| 3 Phenol | 94 | | 8.481 | 8.474 | (0.934) | 99921 | 1.69447 | 1.694 |
| \$ 5 2-Chlorophenol-d4 | 132 | | 8.729 | 8.721 | (0.961) | 303893 | 6.27131 | 6.271 |
| 4 Bis(2-Chloroethyl)ether | 93 | | Compound Not Detected. | | | | | |
| 6 2-Chlorophenol | 128 | | Compound Not Detected. | | | | | |
| 7 1,3-Dichlorobenzene | 146 | | Compound Not Detected. | | | | | |
| * 8 1,4-Dichlorobenzene-d4 | 152 | | 9.085 | 9.085 | (1.000) | 143040 | 4.00000 | |
| 9 1,4-Dichlorobenzene | 146 | | Compound Not Detected. | | | | | |
| \$ 10 1,2-Dichlorobenzene-d4 | 152 | | 9.442 | 9.441 | (1.039) | 131149 | 3.76864 | 3.769 |
| 12 1,2-Dichlorobenzene | 146 | | Compound Not Detected. | | | | | |
| 11 Benzyl alcohol | 108 | | 9.356 | 9.356 | (1.030) | 3200 | 0.11561 | 0.1156 |
| 14 2,2'-oxybis(1-Chloropropane) | 121 | | Compound Not Detected. | | | | | |
| 13 2-Methylphenol | 108 | | Compound Not Detected. | | | | | |
| 17 Hexachloroethane | 117 | | Compound Not Detected. | | | | | |
| 16 N-Nitroso-di-n-propylamine | 70 | | Compound Not Detected. | | | | | |
| 15 4-Methylphenol | 108 | | 9.861 | 9.861 | (1.085) | 7508 | 0.16577 | 0.1658 |
| \$ 18 Nitrobenzene-d5 | 82 | | 10.179 | 10.179 | (0.880) | 204463 | 3.85476 | 3.855 |
| 19 Nitrobenzene | 77 | | Compound Not Detected. | | | | | |
| 20 Isophorone | 82 | | Compound Not Detected. | | | | | |
| 21 2-Nitrophenol | 139 | | Compound Not Detected. | | | | | |
| 22 2,4-Dimethylphenol | 107 | | Compound Not Detected. | | | | | |
| 23 Bis(2-Chloroethoxy)methane | 93 | | Compound Not Detected. | | | | | |
| 24 Benzoic acid | 105 | | 11.011 | 11.105 | (0.952) | 10313 | 0.38823 | 0.3882 (M) |
| 25 2,4-Dichlorophenol | 162 | | Compound Not Detected. | | | | | |
| 26 1,2,4-Trichlorobenzene | 180 | | Compound Not Detected. | | | | | |
| * 27 Naphthalene-d8 | 136 | | 11.572 | 11.572 | (1.000) | 525497 | 4.00000 | |
| 28 Naphthalene | 128 | | 11.611 | 11.618 | (1.003) | 14623 | 0.10504 | 0.1050 |
| 29 4-Chloroaniline | 127 | | Compound Not Detected. | | | | | |
| 30 Hexachlorobutadiene | 225 | | Compound Not Detected. | | | | | |
| 31 4-Chloro-3-methylphenol | 107 | | Compound Not Detected. | | | | | |
| 32 2-Methylnaphthalene | 142 | | 13.011 | 13.018 | (1.124) | 9152 | 0.09110 | 0.09110 |
| 33 Hexachlorocyclopentadiene | 237 | | Compound Not Detected. | | | | | |

| Compounds | QUANT | SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|-----------------------------------|-------|-----|--------|--------|---------|----------|----------------------|------------------|
| | | | | | | | ON-COLUMN (ug/mL) | FINAL (ug/mL) |
| 34 2,4,6-Trichlorophenol | 196 | | | | | | | |
| 35 2,4,5-Trichlorophenol | 196 | | | | | | | |
| \$ 36 2-Fluorobiphenyl | 172 | | 13.792 | 13.800 | (0.907) | 487493 | 4.19593 | 4.196 |
| 37 2-Chloronaphthalene | 162 | | | | | | | |
| 38 2-Nitroaniline | 65 | | | | | | | |
| 39 Dimethylphthalate | 163 | | 14.706 | 14.706 | (0.967) | 7591 | 0.07956 | 0.07956 |
| 40 Acenaphthylene | 152 | | 14.884 | 14.884 | (0.979) | 17320 | 0.11815 | 0.1182 |
| 41 2,6-Dinitrotoluene | 165 | | | | | | | |
| * 42 Acenaphthene-d10 | 164 | | 15.201 | 15.201 | (1.000) | 293707 | 4.00000 | |
| 43 3-Nitroaniline | 138 | | | | | | | |
| 44 Acenaphthene | 153 | | 15.263 | 15.263 | (1.004) | 6718 | 0.07418 | 0.07418 |
| 45 2,4-Dinitrophenol | 184 | | | | | | | |
| 46 Dibenzofuran | 168 | | 15.595 | 15.595 | (1.026) | 10671 | 0.07991 | 0.07991 |
| 47 4-Nitrophenol | 109 | | | | | | | |
| 48 2,4-Dinitrotoluene | 165 | | | | | | | |
| 50 Diethylphthalate | 149 | | 16.167 | 16.175 | (1.064) | 32431 | 0.34643 | 0.3464 |
| 49 Fluorene | 166 | | 16.306 | 16.314 | (1.073) | 11945 | 0.11369 | 0.1137 |
| 51 4-Chlorophenyl-phenylether | 204 | | | | | | | |
| 52 4-Nitroaniline | 138 | | | | | | | |
| 53 4,6-Dinitro-2-methylphenol | 198 | | | | | | | |
| 54 N-Nitrosodiphenylamine | 169 | | | | | | | |
| \$ 55 2,4,6-Tribromophenol | 330 | | 16.846 | 16.846 | (1.108) | 119439 | 8.74338 | 8.743 |
| 56 4-Bromophenyl-phenylether | 248 | | | | | | | |
| 57 Hexachlorobenzene | 284 | | | | | | | |
| 58 Pentachlorophenol | 266 | | | | | | | |
| * 59 Phenanthrene-d10 | 188 | | 18.261 | 18.260 | (1.000) | 571286 | 4.00000 | |
| 60 Phenanthrene | 178 | | 18.299 | 18.307 | (1.002) | 248516 | 1.59533 | 1.595 |
| 61 Anthracene | 178 | | 18.400 | 18.400 | (1.008) | 88354 | 0.59127 | 0.5913 |
| 62 Carbazole | 167 | | 18.733 | 18.732 | (1.026) | 24490 | 0.18289 | 0.1829 |
| 63 Di-n-butylphthalate | 149 | | 19.545 | 19.545 | (1.070) | 17218 | 0.09563 | 0.09563 |
| 64 Fluoranthene | 202 | | 20.752 | 20.713 | (0.889) | 762757 | 3.76136 | 3.761 |
| 65 Pyrene | 202 | | 21.154 | 21.139 | (0.906) | 820289 | 3.94324 | 3.943 |
| \$ 66 Terphenyl-d14 | 244 | | 21.433 | 21.433 | (0.918) | 644604 | 4.12621 | 4.126 |
| 67 Butylbenzylphthalate | 149 | | 22.370 | 22.377 | (0.958) | 23699 | 0.32414 | 0.3241 |
| 68 Benzo(a)anthracene | 228 | | 23.330 | 23.322 | (0.999) | 425943 | 2.39112 | 2.391 |
| * 69 Chrysene-d12 | 240 | | 23.353 | 23.353 | (1.000) | 504676 | 4.00000 | |
| 70 3,3'-Dichlorobenzidine | 252 | | | | | | | |
| 71 Chrysene | 228 | | 23.400 | 23.399 | (1.002) | 521572 | 2.99694 | 2.997 |
| 72 bis(2-Ethylhexyl)phthalate | 149 | | 23.415 | 23.415 | (0.959) | 149440 | 1.21501 | 1.215 |
| * 134 Di-n-octylphthalate-d4 | 153 | | 24.421 | 24.421 | (1.000) | 840395 | 4.00000 | |
| 73 Di-n-octylphthalate | 149 | | | | | | | |
| 74 Benzo(b)fluoranthene | 252 | | 25.250 | 25.250 | (0.969) | 537027 | 3.06517 | 3.065 |
| 75 Benzo(k)fluoranthene | 252 | | 25.296 | 25.296 | (0.971) | 507999 | 2.85546 | 2.855 |
| 76 Benzo(a)pyrene | 252 | | 25.923 | 25.923 | (0.995) | 413201 | 2.63788 | 2.638 |
| * 77 Perylene-d12 | 264 | | 26.047 | 26.040 | (1.000) | 540499 | 4.00000 | |
| 78 Indeno(1,2,3-cd)pyrene | 276 | | 28.801 | 28.793 | (1.106) | 243082 | 1.21977 | 1.220 |
| 79 Dibenzo(a,h)anthracene | 278 | | 28.801 | 28.816 | (1.106) | 82540 | 0.49888 | 0.4989 |
| 80 Benzo(g,h,i)perylene | 276 | | 29.616 | 29.601 | (1.137) | 212333 | 1.23116 | 1.231 |
| 90 N-Nitrosodimethylamine | 74 | | | | | | | |
| 91 Aniline | 93 | | | | | | | |
| 93 Benzidine | 184 | | | | | | | |
| 103 Pyridine | 79 | | | | | | | |
| 105 1-methylnaphthalene | 142 | | 13.235 | 13.235 | (1.144) | 7399 | 0.08038 | 0.08038 |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77 | | | | | | | |

| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | | |
|-------------------------------|-----------|------------------------|--------|---------|----------|----------------------|------------------|--|
| | | | | | | ON-COLUMN (ug/mL) | FINAL (ug/mL) | |
| 187 Total Benzofluoranthenes | 252 | 25.250 | 25.296 | (0.969) | 972840 | 5.75090 | 5.751 | |
| 120 2,3,4,6-Tetrachlorophenol | 232 | Compound Not Detected. | | | | | | |

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 23-MAR-2023
 Lab File ID: NT1003222331.D Calibration Time: 03:15
 Lab Smp Id: 23A0180-03RE1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt10.i\20230322.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 137603 | 68802 | 275206 | 143040 | 3.95 |
| 27 Naphthalene-d8 | 494588 | 247294 | 989176 | 525497 | 6.25 |
| 42 Acenaphthene-d10 | 278674 | 139337 | 557348 | 293707 | 5.39 |
| 59 Phenanthrene-d10 | 509229 | 254615 | 1018458 | 571286 | 12.19 |
| 69 Chrysene-d12 | 462271 | 231136 | 924542 | 504676 | 9.17 |
| 134 Di-n-octylphthala | 782572 | 391286 | 1565144 | 840395 | 7.39 |
| 77 Perylene-d12 | 551153 | 275577 | 1102306 | 540499 | -1.93 |

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

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

REVIEW SUMMARY FOR FILE - NT1003222331.D

Lab ID: 23A0180-03RE1
nt10.i, 20230322.b\ABN.m, 23-MAR-2023 12:05

| RT | CO-ELUTION COMPOUNDS |
|--------|---|
| 28.801 | Indeno(1,2,3-cd)pyrene and Dibenzo(a,h)anthracene |
| 28.801 | Dibenzo(a,h)anthracene and Indeno(1,2,3-cd)pyrene |

Quant Method: ICAL

RRT CHECK

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

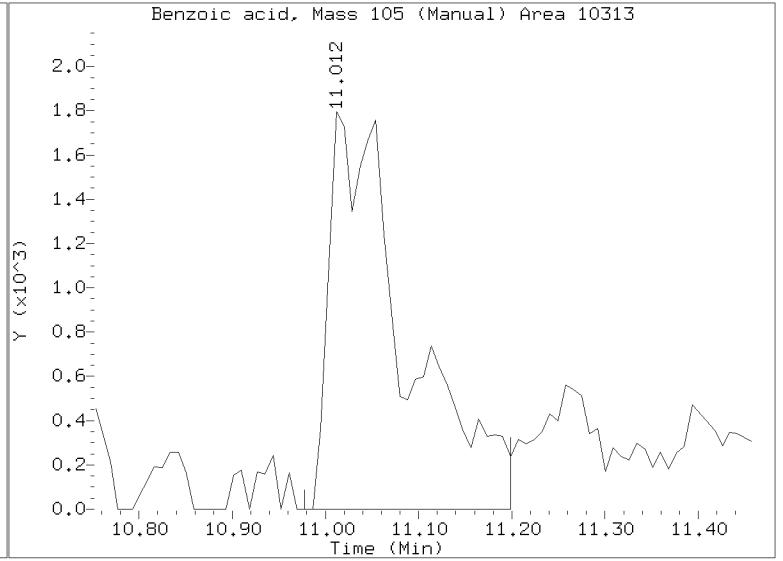
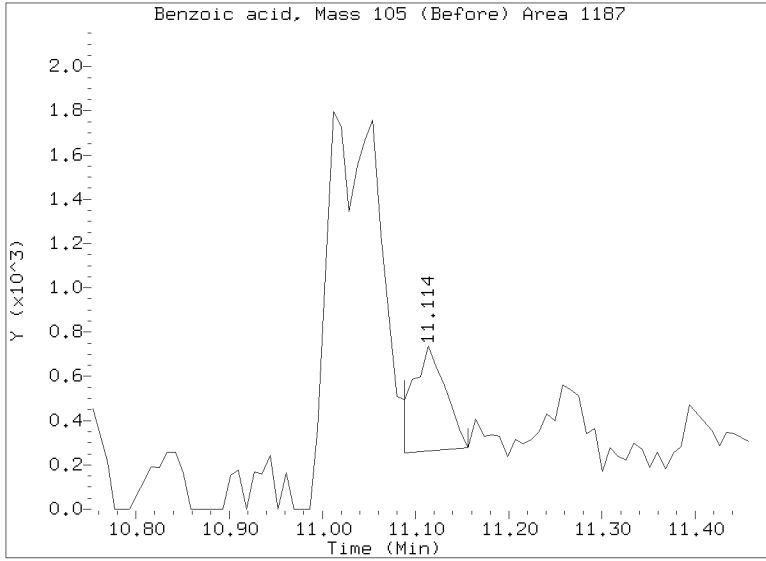
RRT check based on Ccal File: NT1003222317.D

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

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230322.b/NT1003222331.D
Injection Date: 23-MAR-2023 12:05
Lab ID:23A0180-03RE1 Client ID:
Report Date: 03/25/2023 10:17





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

Laboratory: Analytical Resources, LLC

Client: Anchor OEA, LLC

Project: AOC5 MR Phase 1

Matrix: Sediment

Laboratory ID: 23A0180-04RE1 A

SDG: 23A0180

Sampled: 01/10/23 09:07

Prepared: 03/17/23 11:16

File ID: NT1003222332.D

% Solids: 56.10

Preparation: EPA 3546 (Microwave)

Analyzed: 03/23/23 12:44

Batch: BLC0442

Sequence: SLC0397

Initial/Final: 17.88 g Wet / 1 mL

Instrument: NT10

Column: ZB-5MSi

Calibration: GC00046

Cleanups: GPC

| CAS NO. | COMPOUND | DILUTION | CONC: (ug/kg dry) | Q | DL | RL |
|----------|-----------------------------|----------|----------------------|---|------|------|
| 108-95-2 | Phenol | 1 | 121 | | 4.4 | 19.9 |
| 106-44-5 | 4-Methylphenol | 1 | 10.1 | J | 7.4 | 19.9 |
| 91-20-3 | Naphthalene | 1 | 11.9 | J | 4.2 | 19.9 |
| 91-57-6 | 2-Methylnaphthalene | 1 | 12.7 | J | 4.5 | 19.9 |
| 208-96-8 | Acenaphthylene | 1 | 10.3 | J | 6.2 | 19.9 |
| 131-11-3 | Dimethylphthalate | 1 | 11.1 | J | 4.4 | 19.9 |
| 83-32-9 | Acenaphthene | 1 | 7.5 | J | 5.2 | 19.9 |
| 132-64-9 | Dibenzofuran | 1 | 19.9 | U | 14.1 | 19.9 |
| 86-73-7 | Fluorene | 1 | 19.9 | U | 14.5 | 19.9 |
| 85-01-8 | Phenanthrene | 1 | 81.0 | | 8.7 | 19.9 |
| 120-12-7 | Anthracene | 1 | 37.3 | | 7.2 | 19.9 |
| 206-44-0 | Fluoranthene | 1 | 151 | | 6.1 | 19.9 |
| 129-00-0 | Pyrene | 1 | 247 | | 5.7 | 19.9 |
| 85-68-7 | Butylbenzylphthalate | 1 | 20.0 | | 9.4 | 19.9 |
| 56-55-3 | Benzo(a)anthracene | 1 | 97.3 | | 5.9 | 19.9 |
| 218-01-9 | Chrysene | 1 | 145 | | 6.0 | 19.9 |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 1 | 130 | | 5.4 | 49.8 |
| | Benzo(a)fluoranthene, Total | 1 | 376 | | 10.0 | 39.9 |
| 50-32-8 | Benzo(a)pyrene | 1 | 149 | | 4.2 | 19.9 |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 1 | 77.0 | | 14.6 | 19.9 |
| 53-70-3 | Dibenzo(a,h)anthracene | 1 | 23.3 | | 17.2 | 19.9 |
| 191-24-2 | Benzo(g,h,i)perylene | 1 | 81.6 | | 13.5 | 19.9 |

| SURROGATES | ADDED: (ug/kg dry) | FOUND: (ug/kg dry) | % REC | QC LIMITS | Q |
|------------------------|-----------------------|-----------------------|-------|-----------|---|
| 2-Fluorophenol | 747.71 | 597 | 79.8 | 27 - 120 | |
| Phenol-d5 | 747.71 | 605 | 80.9 | 29 - 120 | |
| 2-Chlorophenol-d4 | 747.71 | 648 | 86.7 | 31 - 120 | |
| 1,2-Dichlorobenzene-d4 | 498.47 | 394 | 79.0 | 32 - 120 | |
| Nitrobenzene-d5 | 498.47 | 405 | 81.2 | 30 - 120 | |
| 2-Fluorobiphenyl | 498.47 | 437 | 87.6 | 35 - 120 | |



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

Laboratory: Analytical Resources, LLC

Client: Anchor OEA, LLC

Project: AOC5 MR Phase 1

Matrix: Sediment

Laboratory ID: 23A0180-04RE1 A

SDG: 23A0180

Sampled: 01/10/23 09:07

Prepared: 03/17/23 11:16

File ID: NT1003222332.D

% Solids: 56.10

Preparation: EPA 3546 (Microwave)

Analyzed: 03/23/23 12:44

Batch: BLC0442

Sequence: SLC0397

Initial/Final: 17.88 g Wet / 1 mL

Instrument: NT10

Column: ZB-5MSi

Calibration: GC00046

Cleanups: GPC

| SURROGATES | ADDED: (ug/kg dry) | FOUND: (ug/kg dry) | % REC | QC LIMITS | Q |
|----------------------|-----------------------|-----------------------|-------|-----------|---|
| 2,4,6-Tribromophenol | 747.71 | 839 | 112 | 24 - 134 | |
| p-Terphenyl-d14 | 498.47 | 417 | 83.7 | 37 - 120 | |

Data File: \\target\share\chem3\nt10.1\20230322.16\NT1003222332.D

Date: 23-MAR-2023 12:44

Client ID:

Sample Info: 23A0180-04RE1

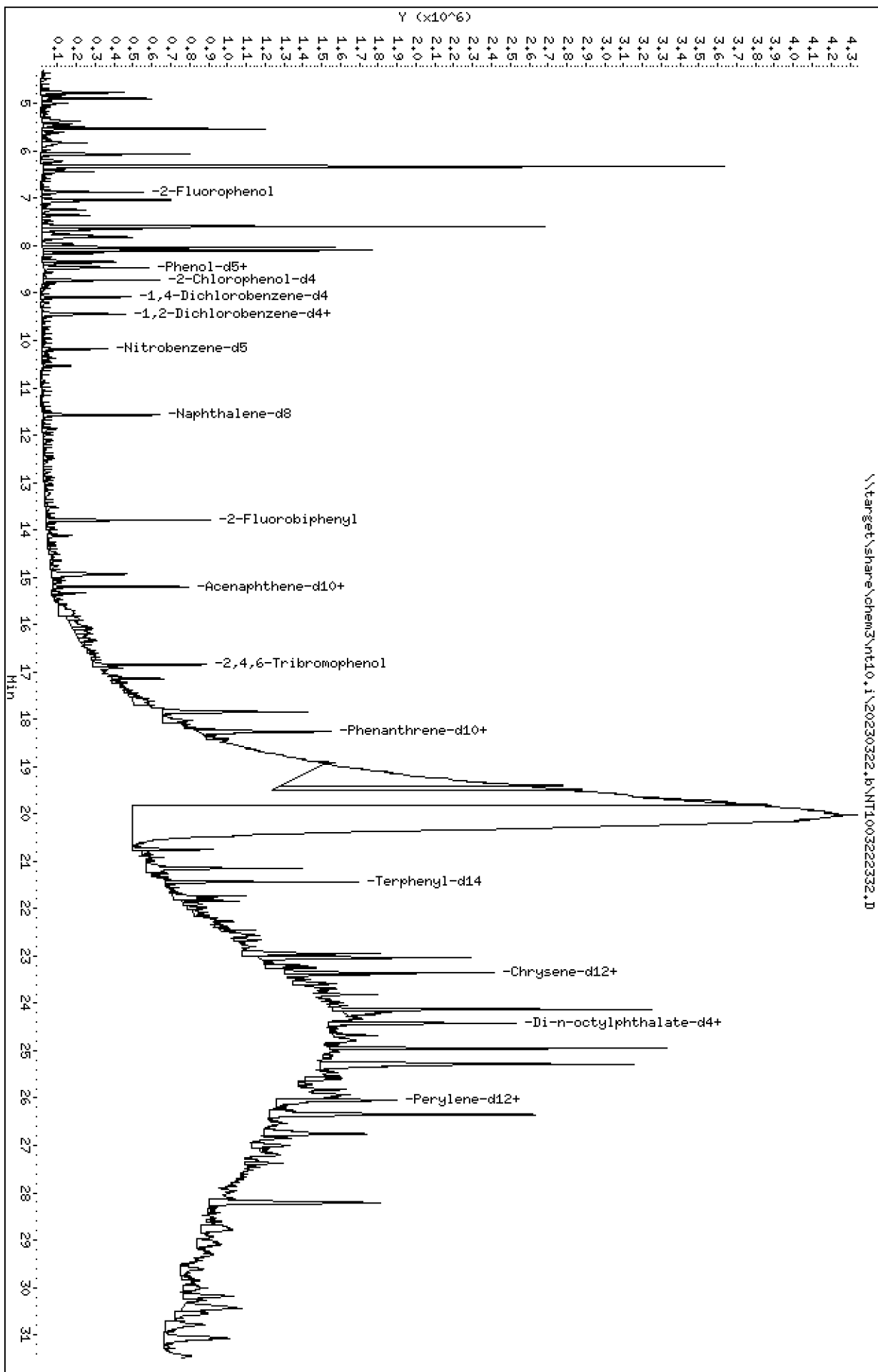
Page 1

Column phase: ZB-5msi

Instrument: nt10.1

Operator: VTS

Column diameter: 0.25



Date : 23-MAR-2023 12:44

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-04RE1

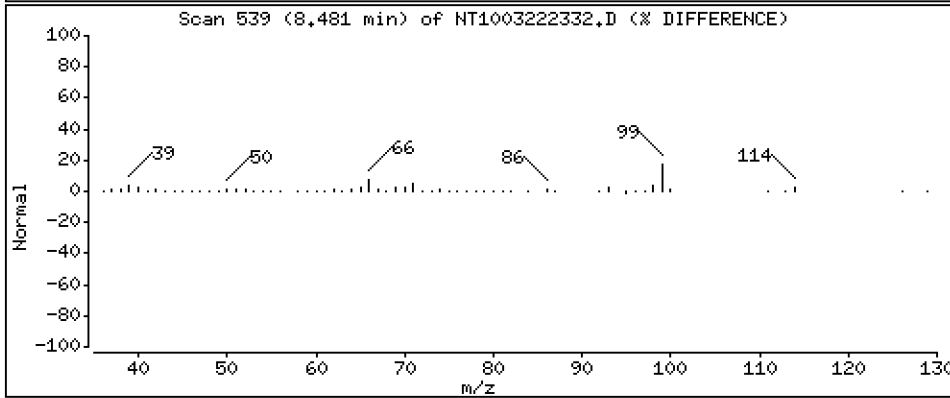
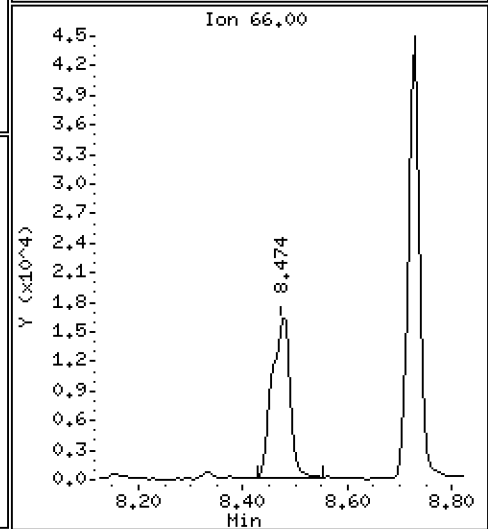
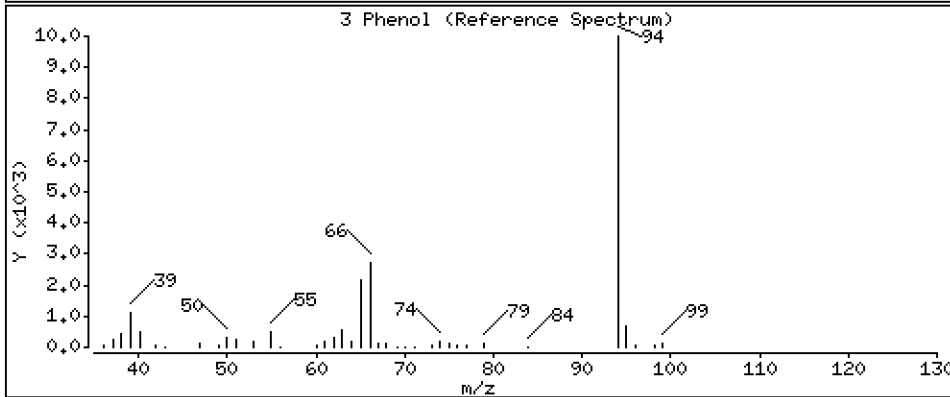
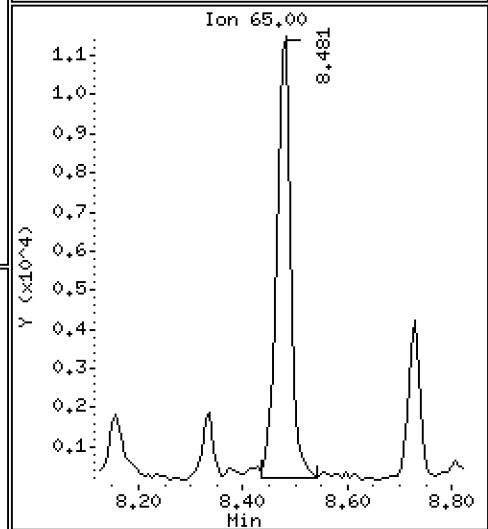
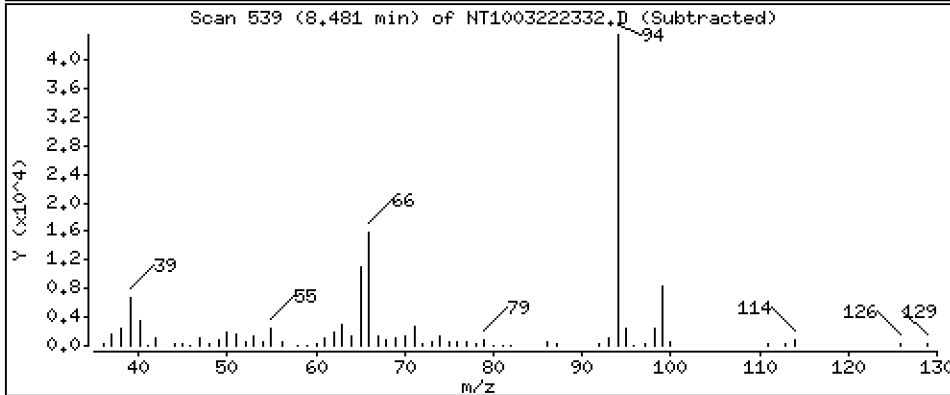
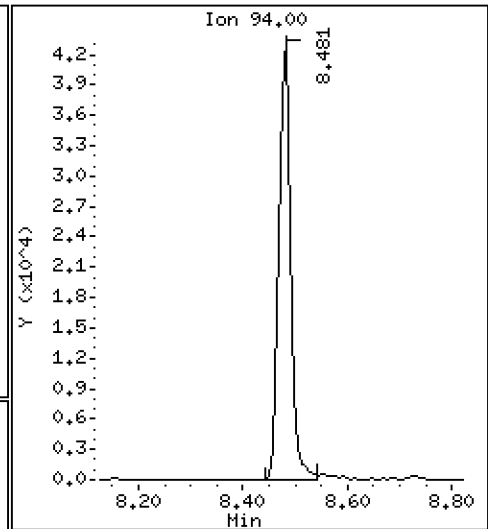
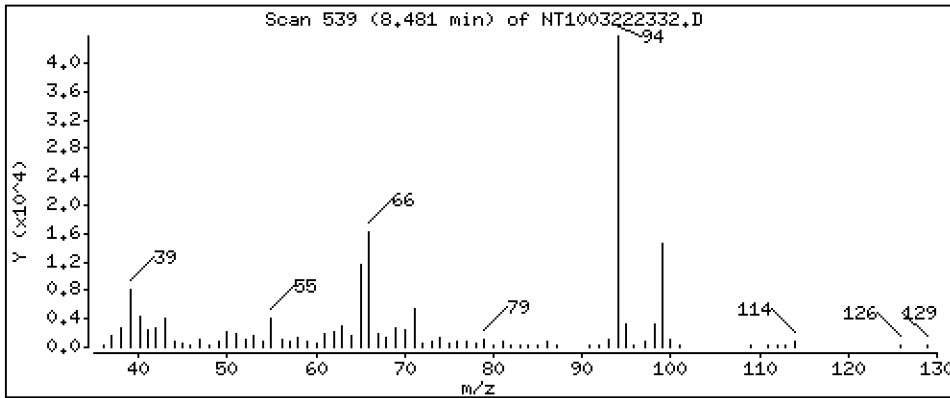
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 1,212 ug/mL



Date : 23-MAR-2023 12:44

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-04RE1

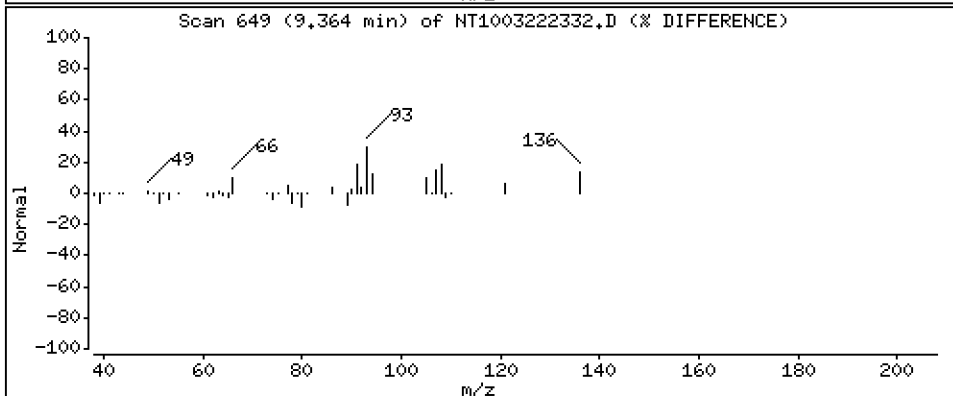
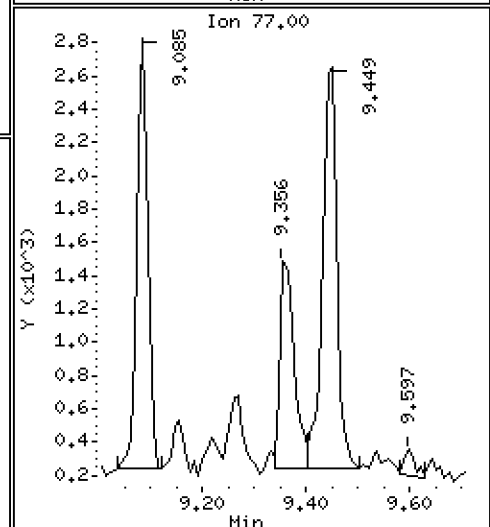
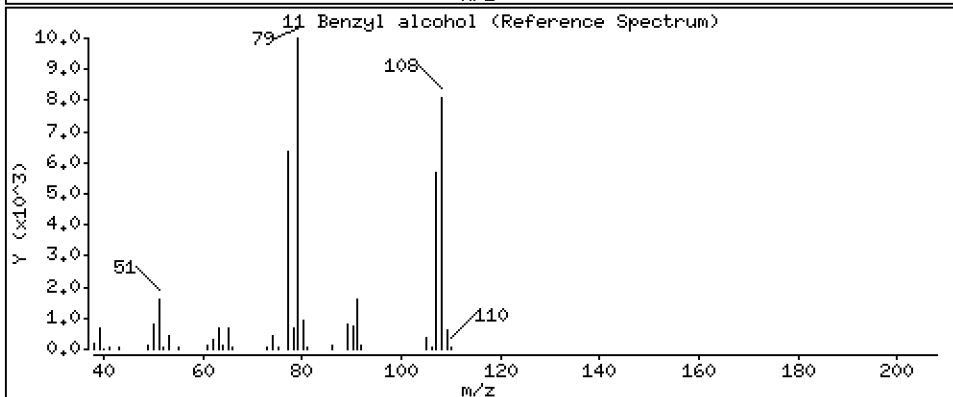
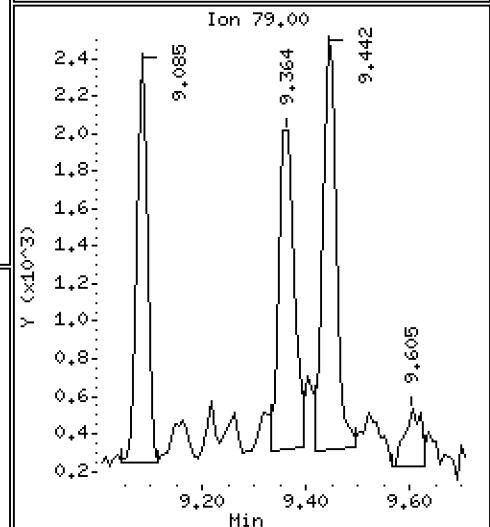
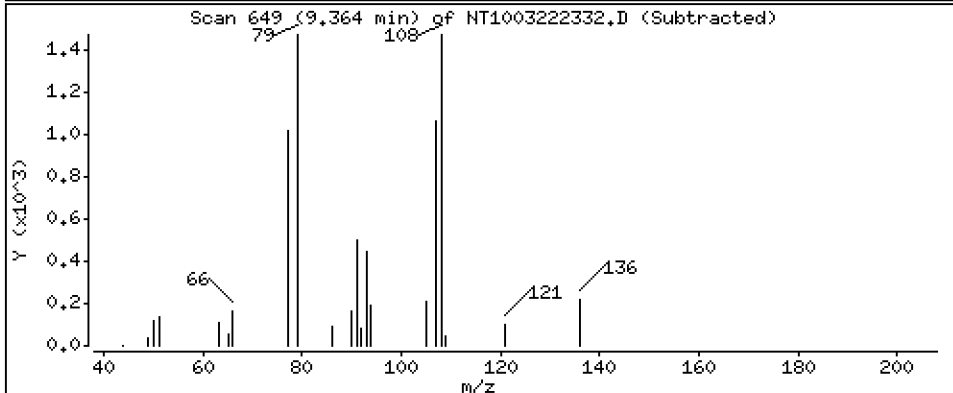
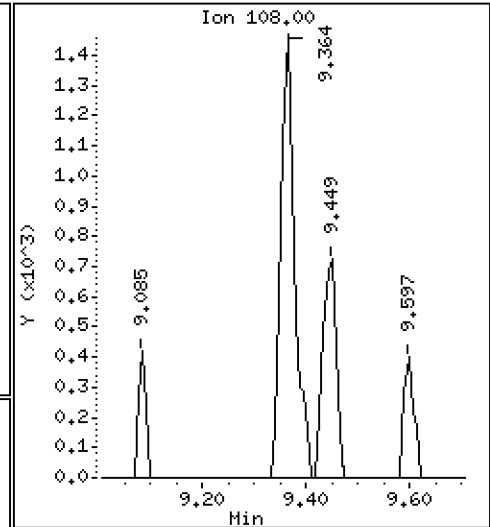
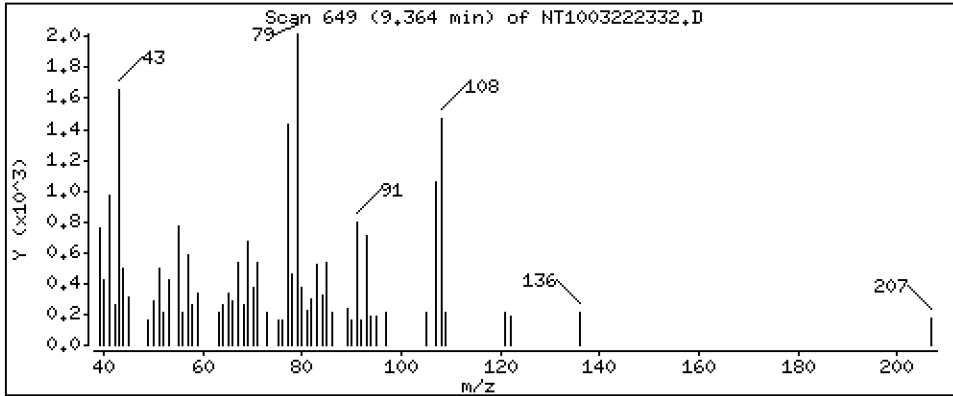
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 0.1019 ug/mL



Date : 23-MAR-2023 12:44

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-04RE1

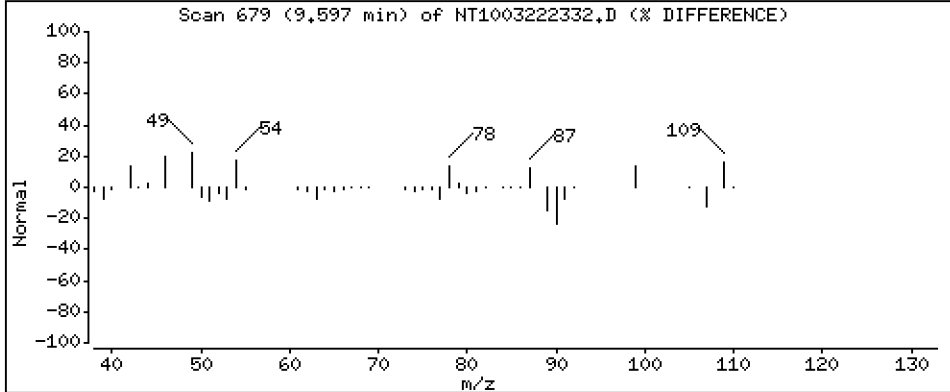
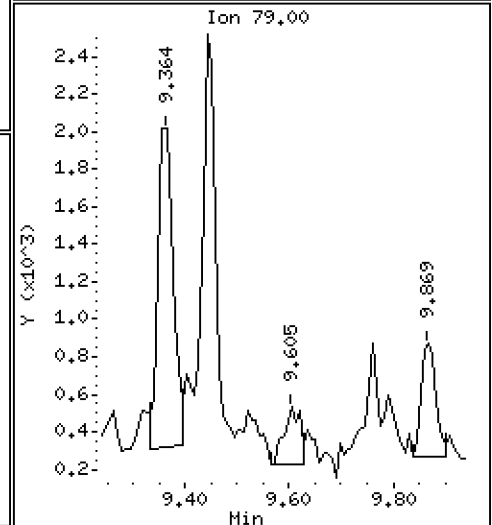
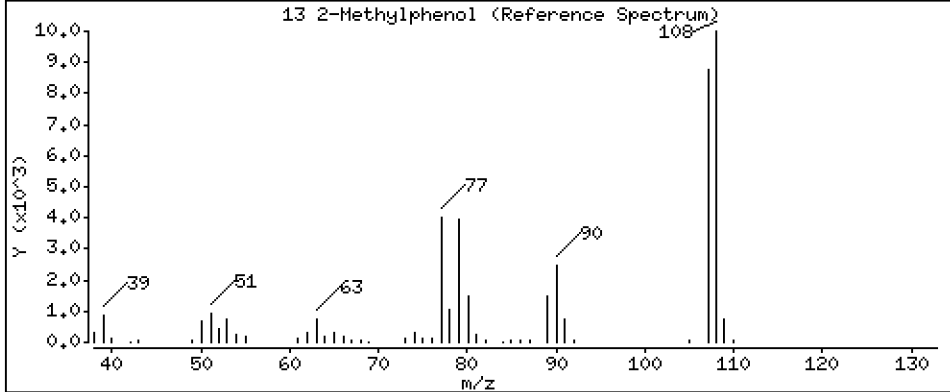
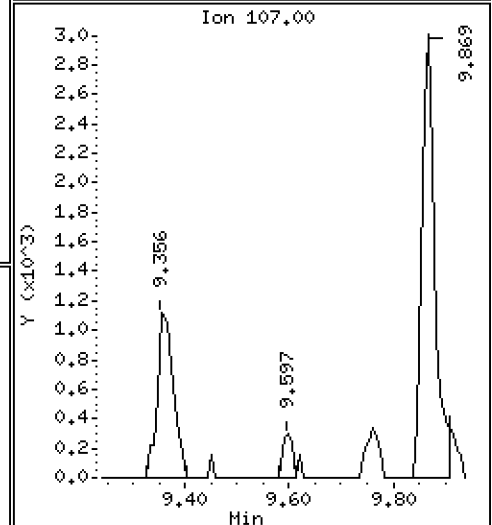
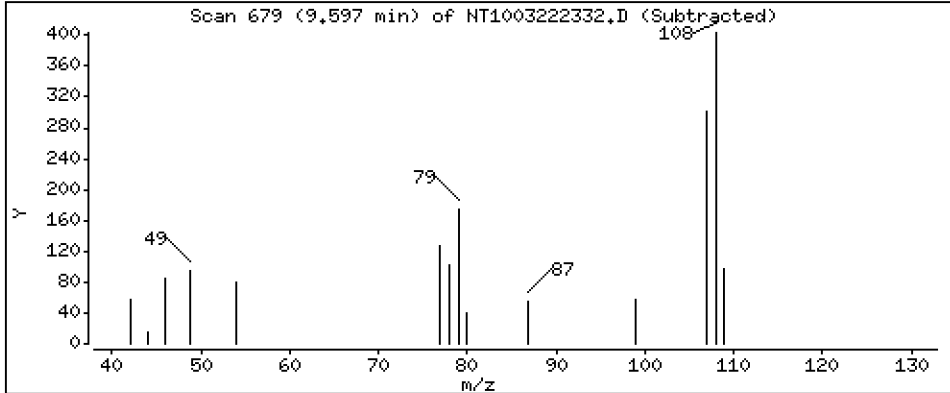
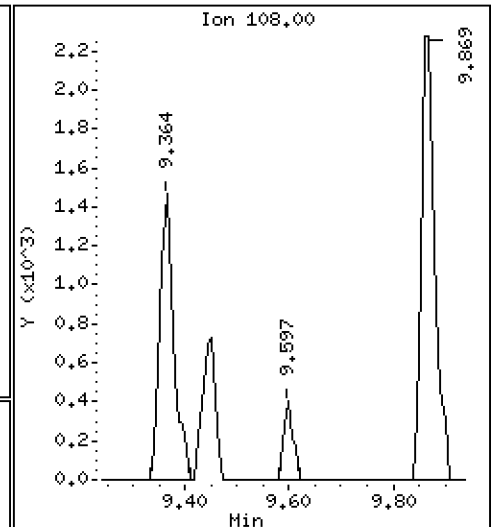
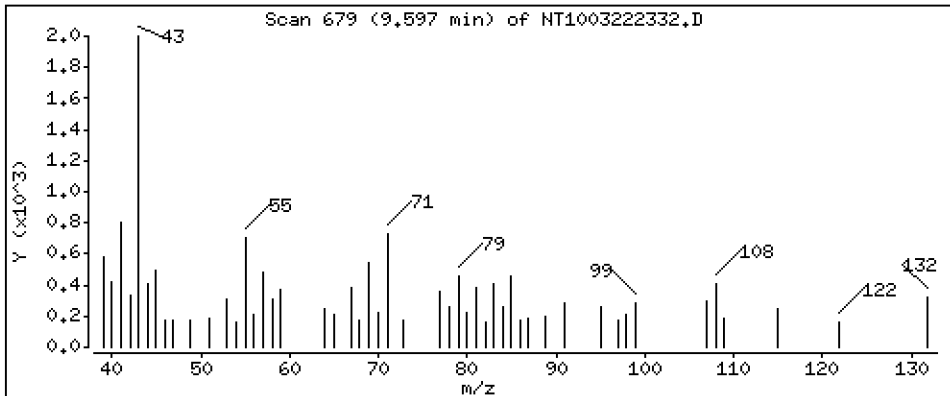
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

13 2-Methylphenol

Concentration: 0.01253 ug/mL



Date : 23-MAR-2023 12:44

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-04RE1

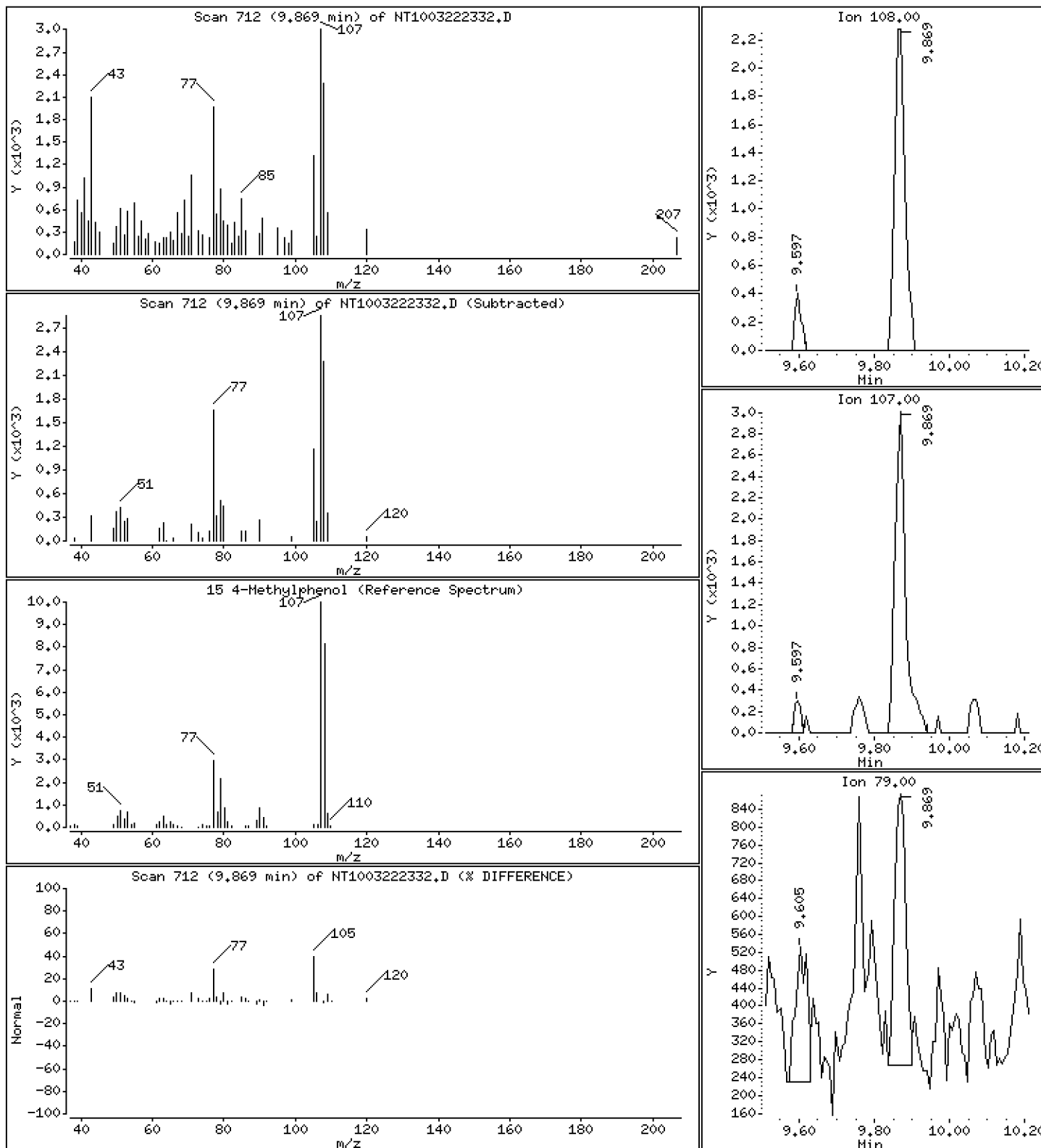
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 0.1016 ug/mL



Date : 23-MAR-2023 12:44

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-04RE1

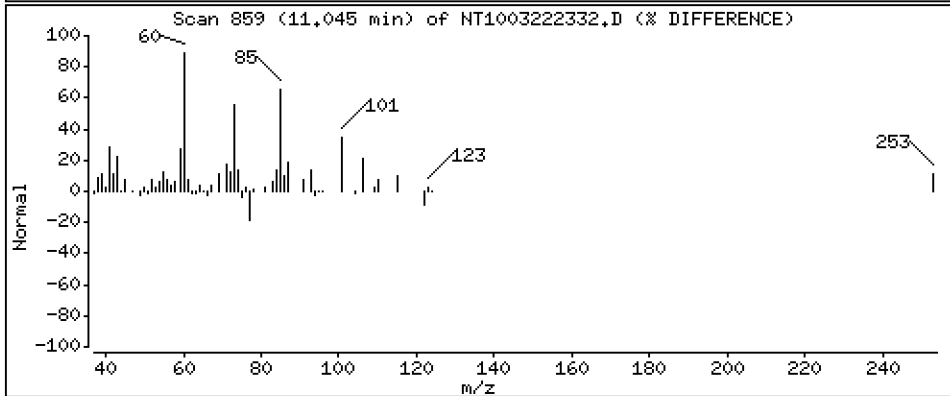
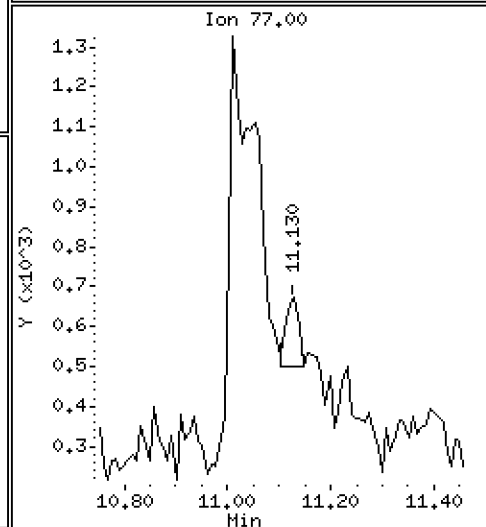
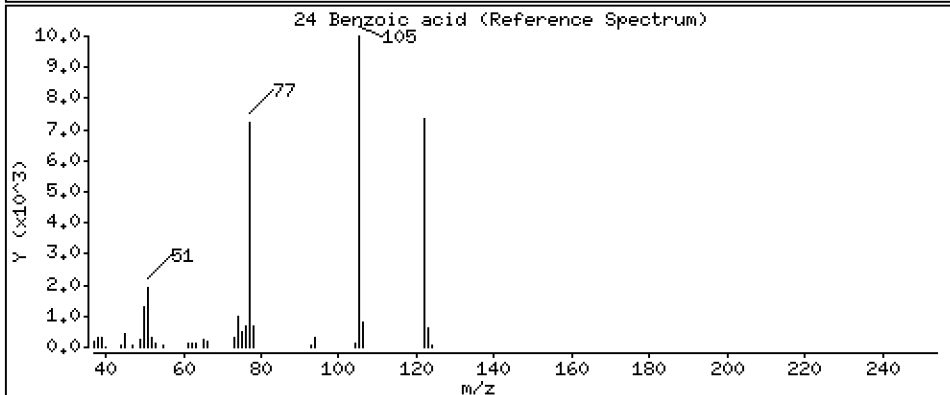
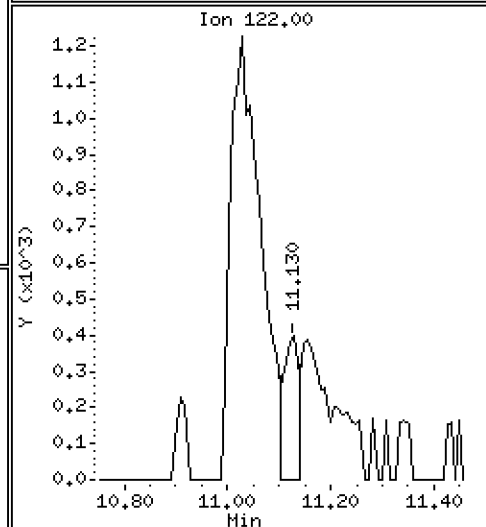
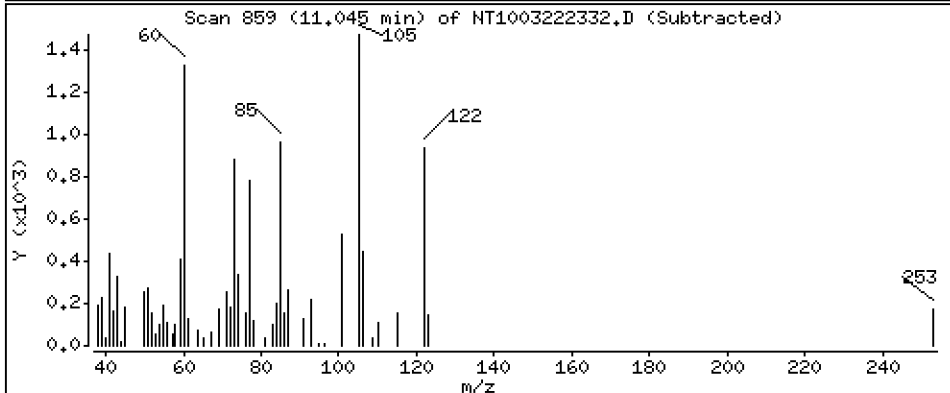
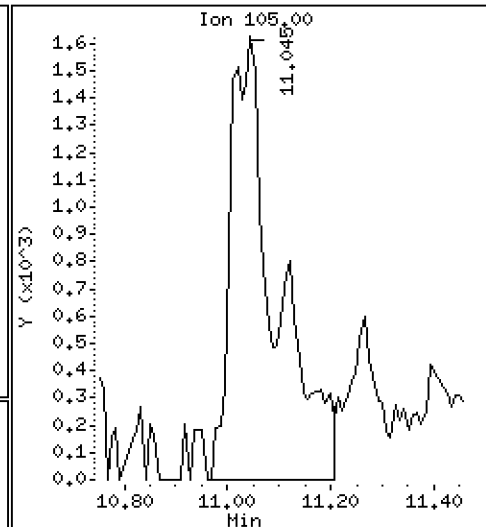
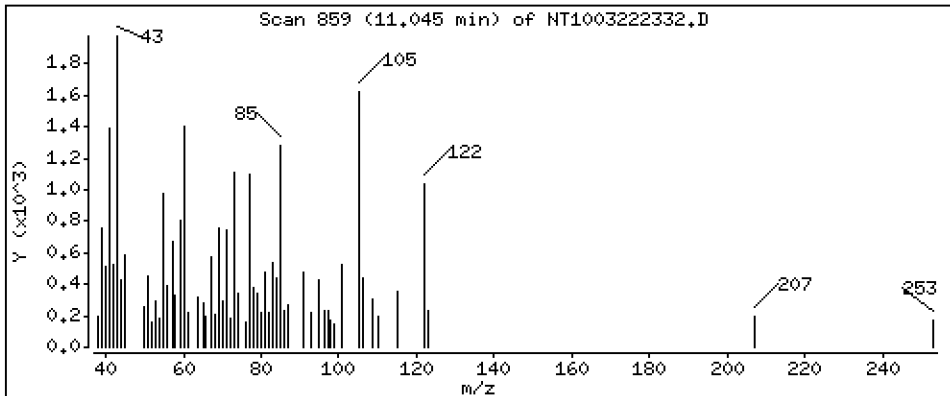
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

24 Benzoic acid

Concentration: 0,3988 ug/mL



Date : 23-MAR-2023 12:44

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-04RE1

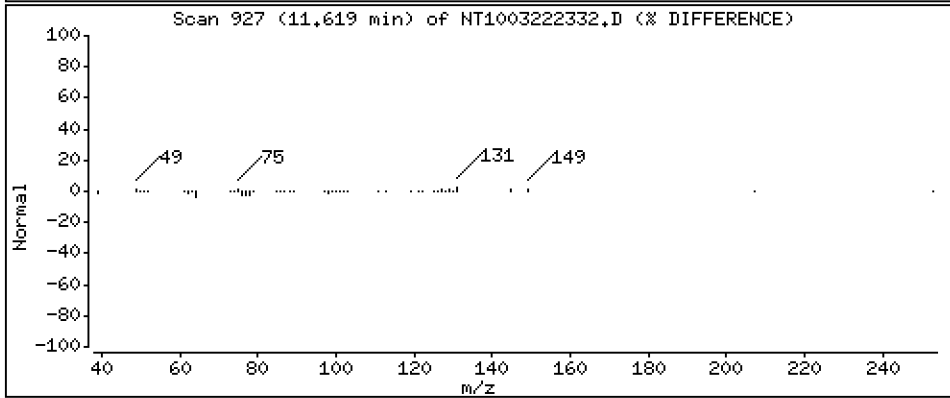
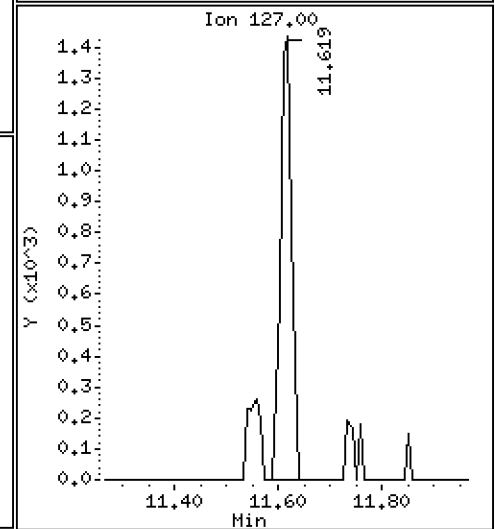
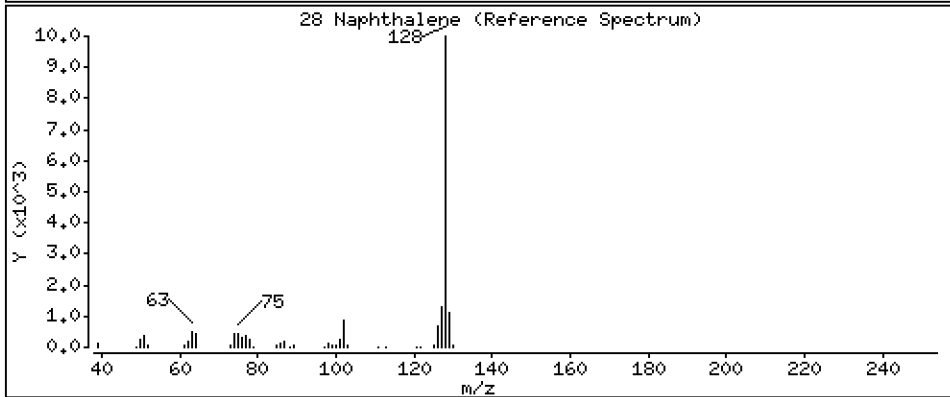
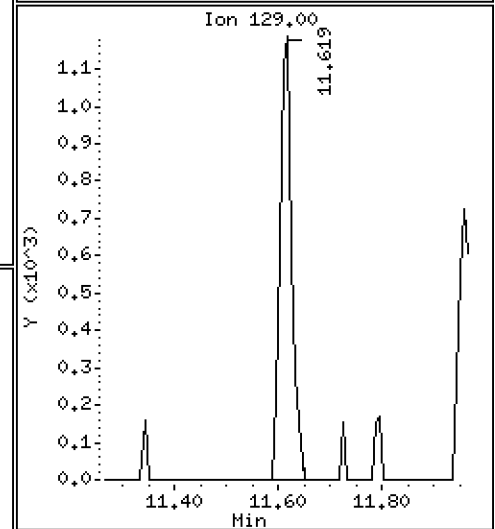
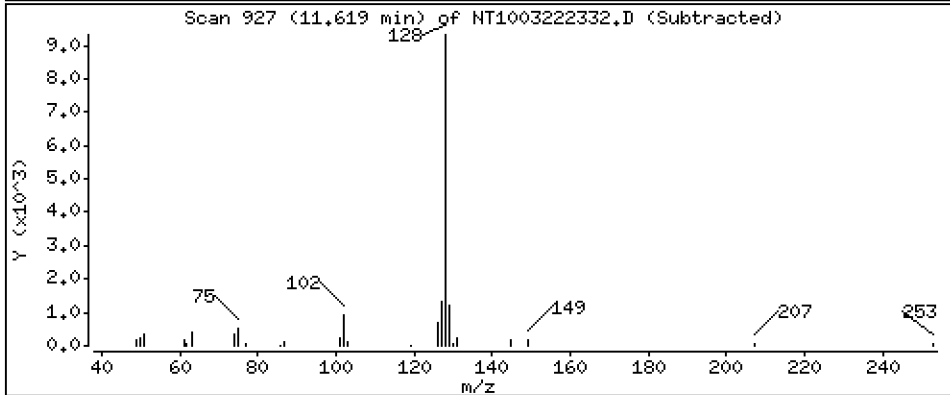
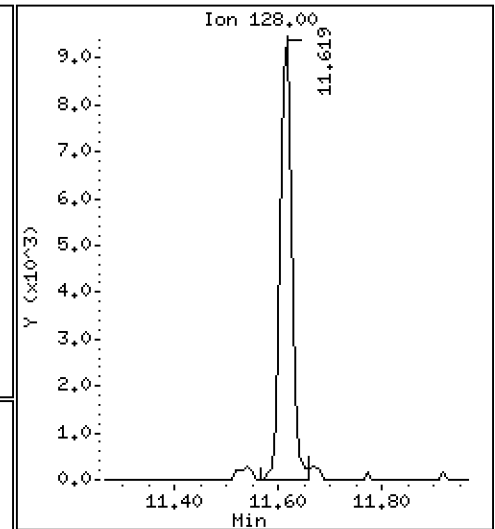
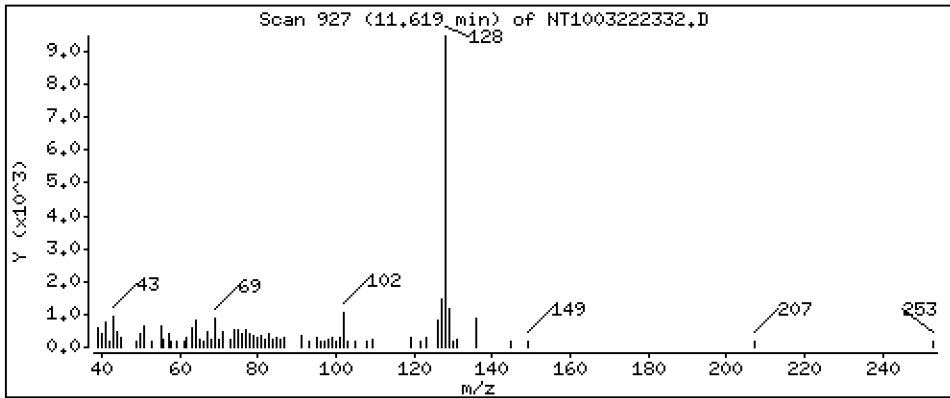
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 0,1194 ug/mL



Date : 23-MAR-2023 12:44

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-04RE1

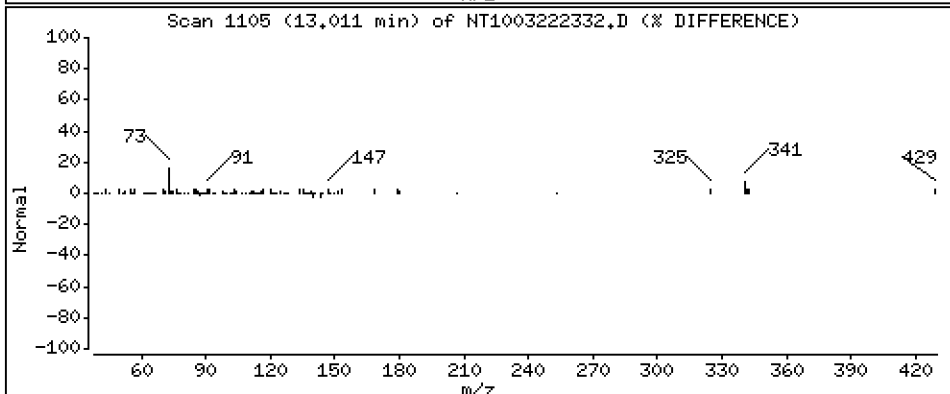
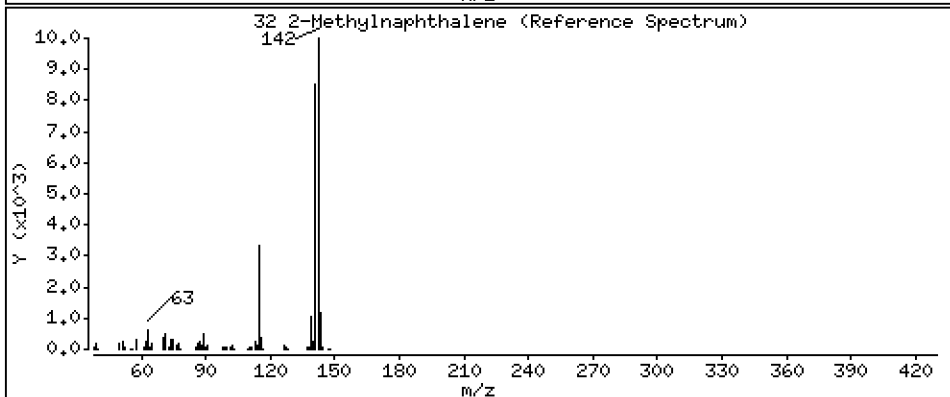
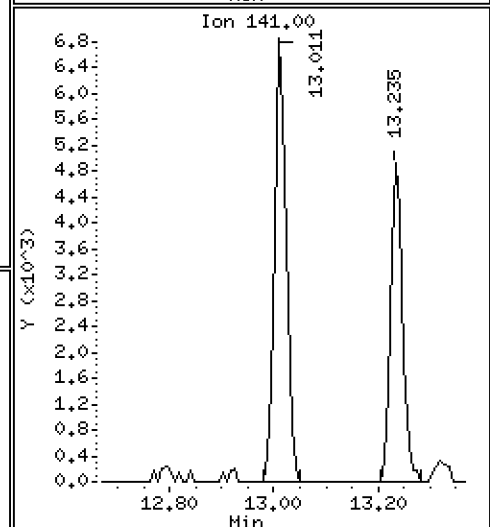
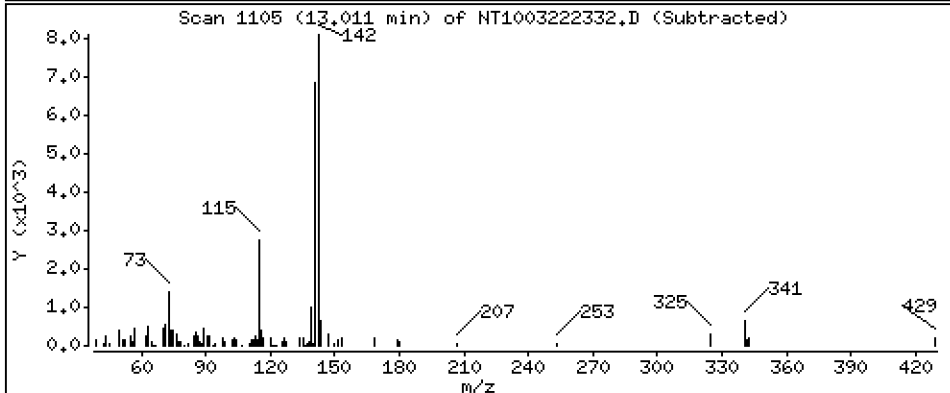
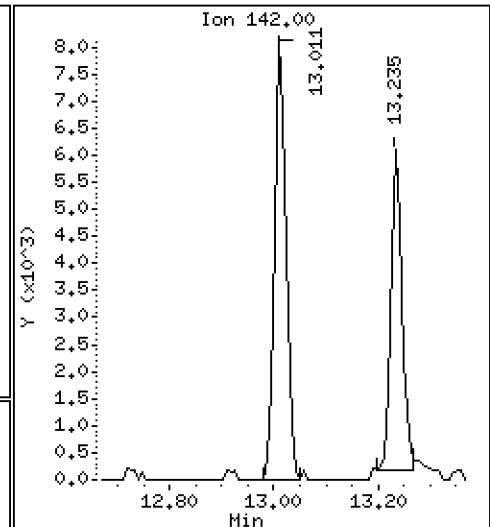
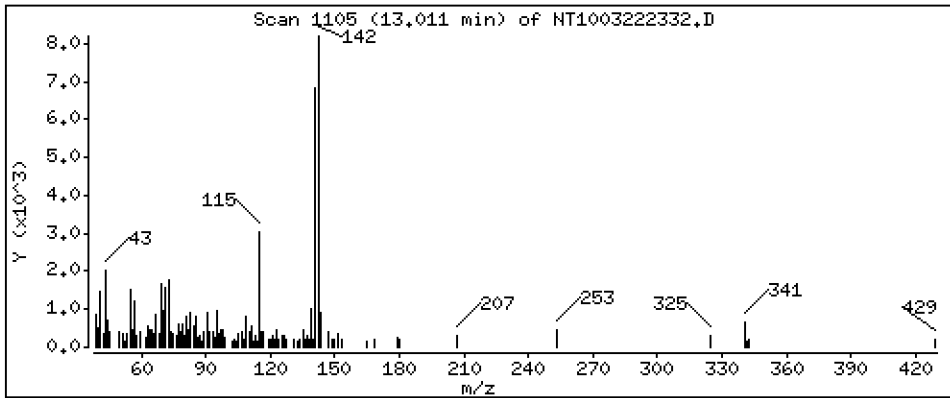
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 0,1279 ug/mL



Date : 23-MAR-2023 12:44

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-04RE1

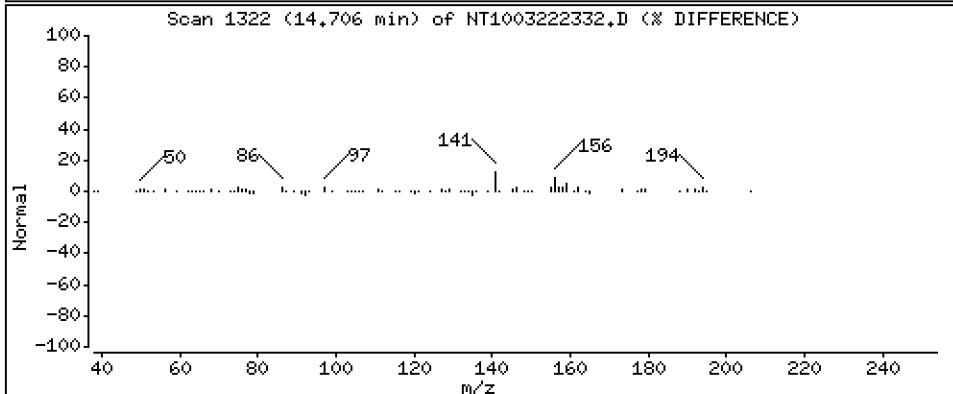
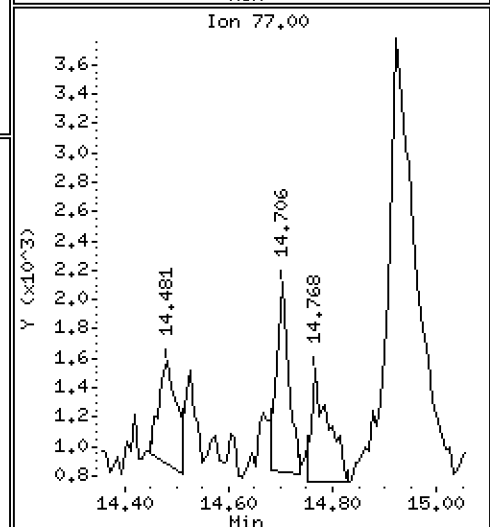
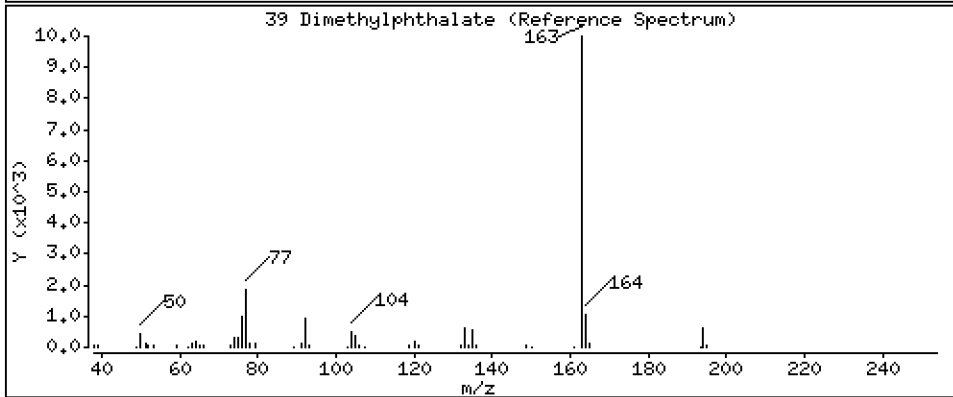
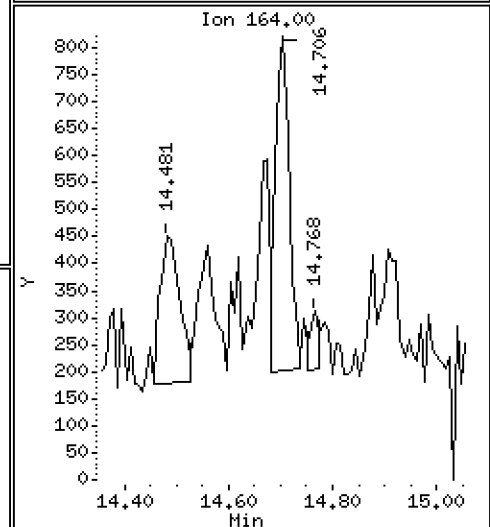
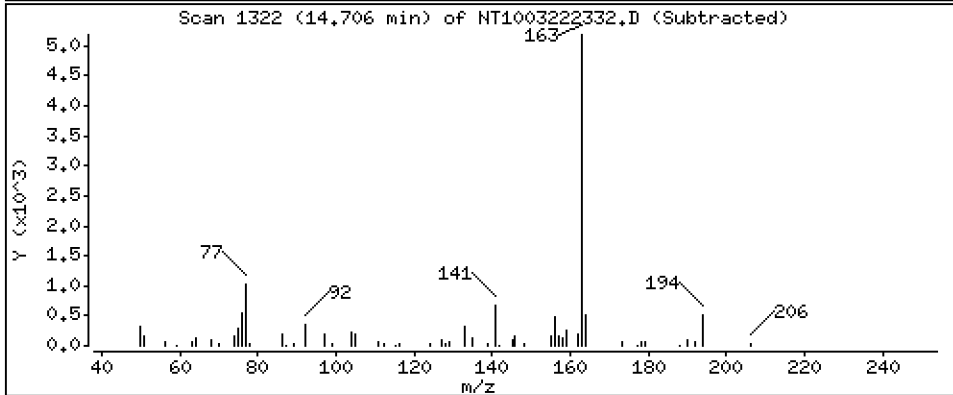
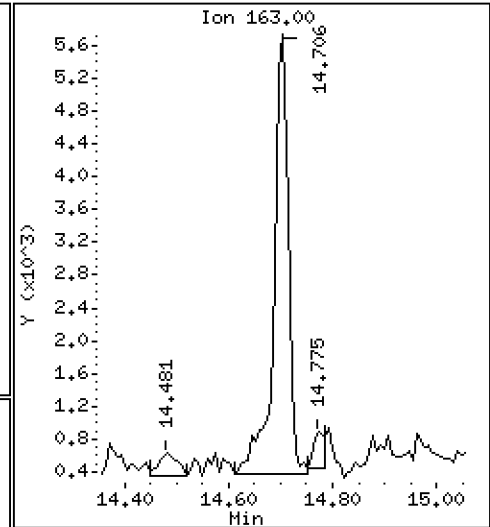
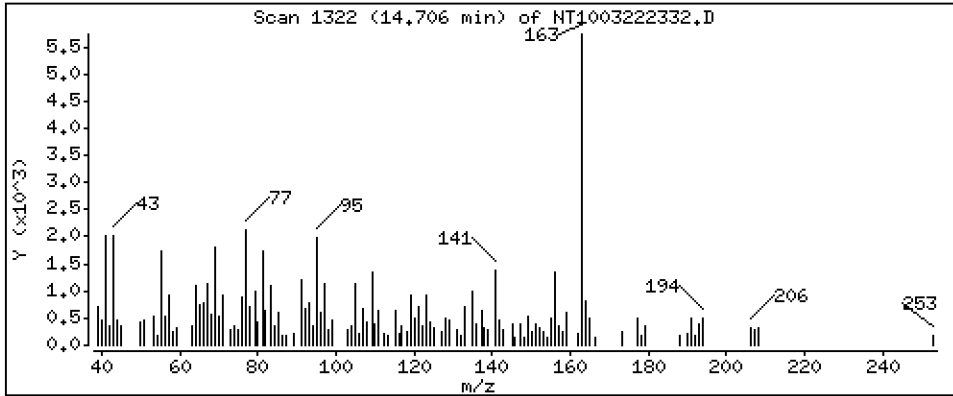
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

39 Dimethylphthalate

Concentration: 0.1114 ug/mL



Date : 23-MAR-2023 12:44

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-04RE1

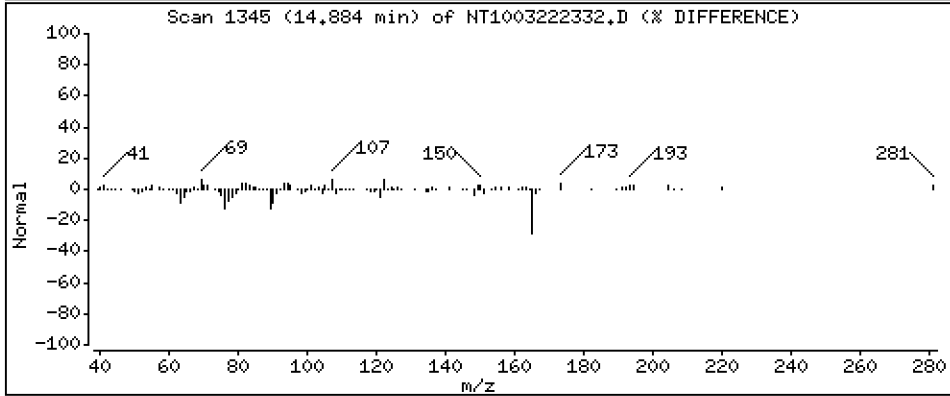
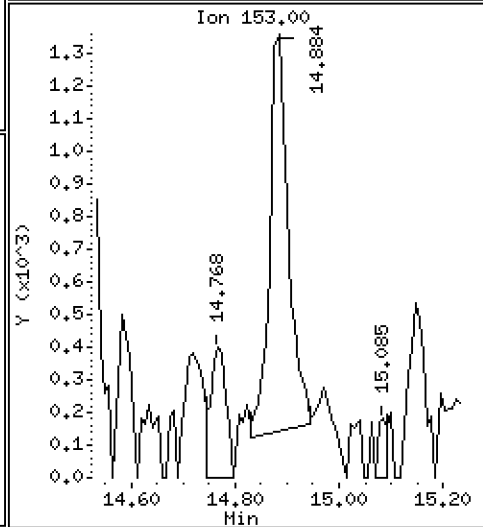
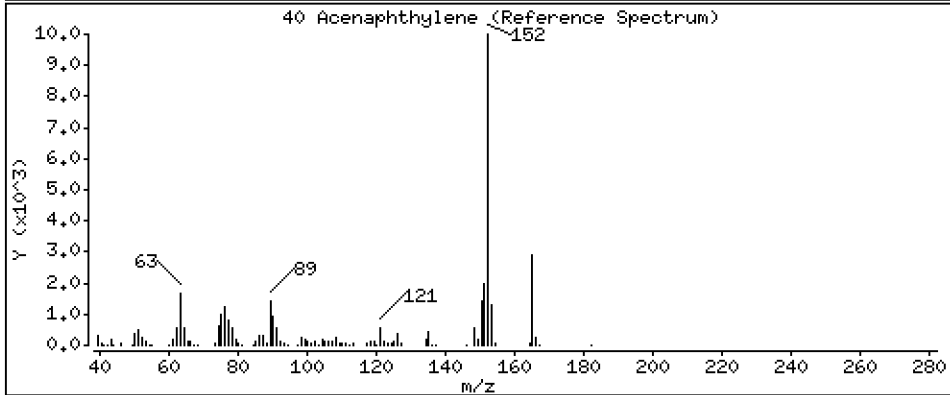
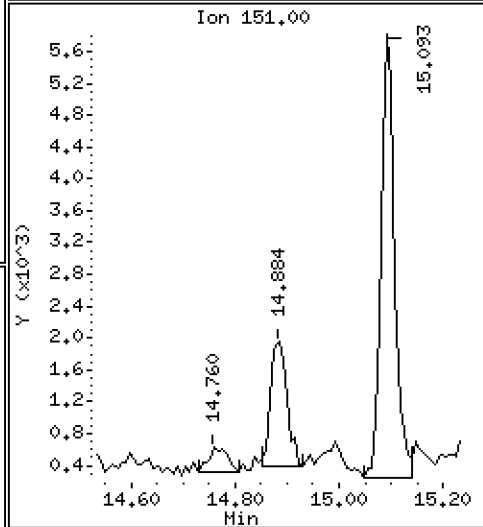
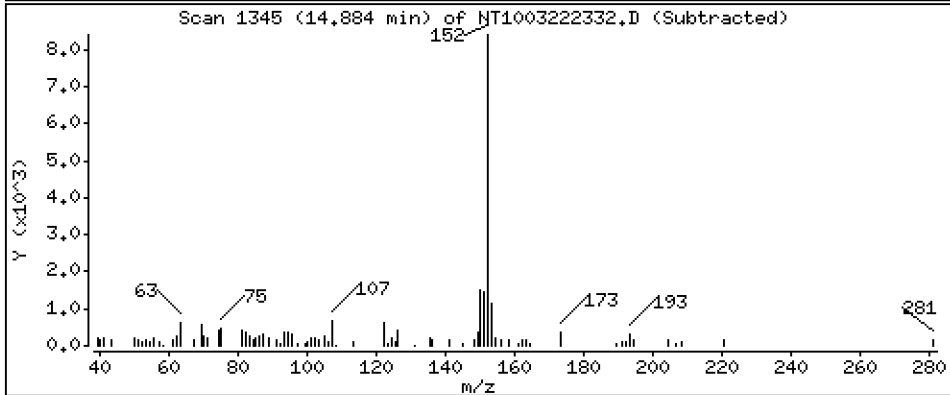
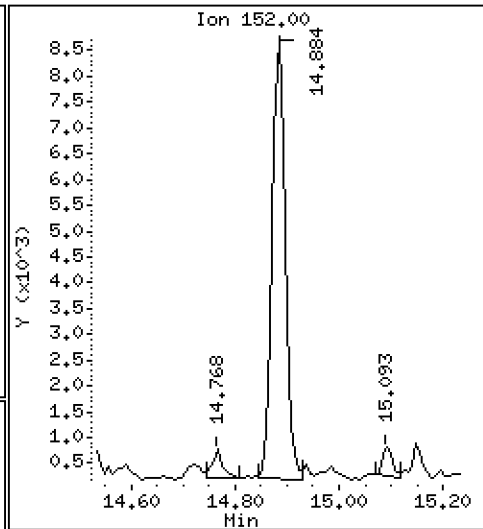
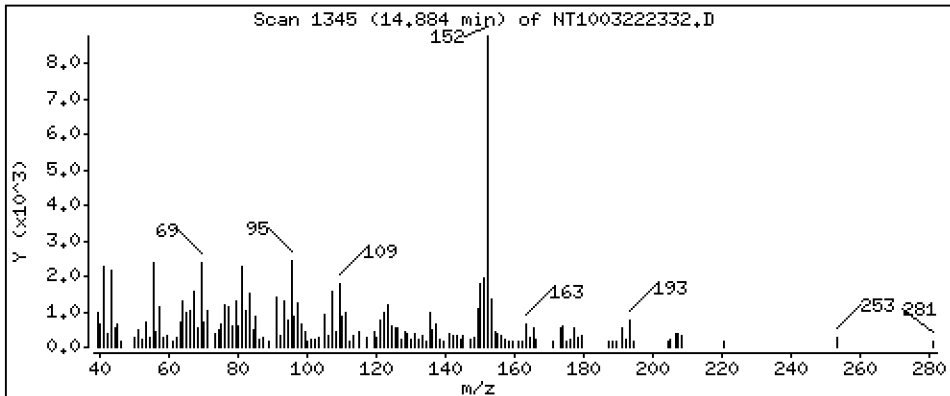
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 0,1031 ug/mL



Date : 23-MAR-2023 12:44

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-04RE1

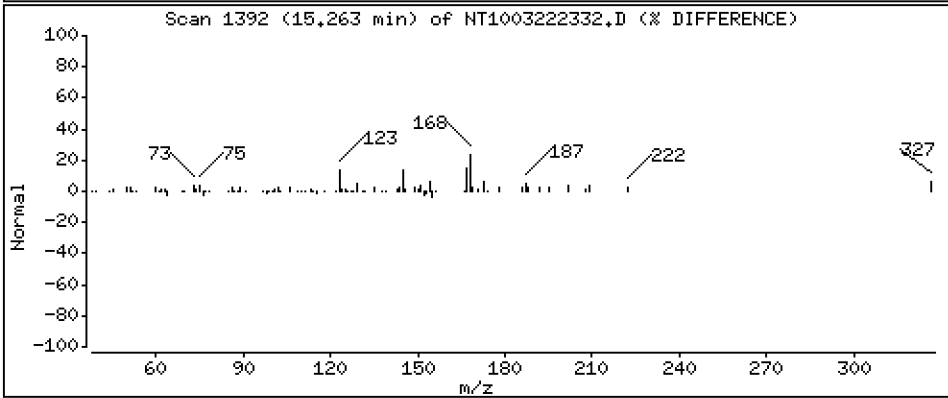
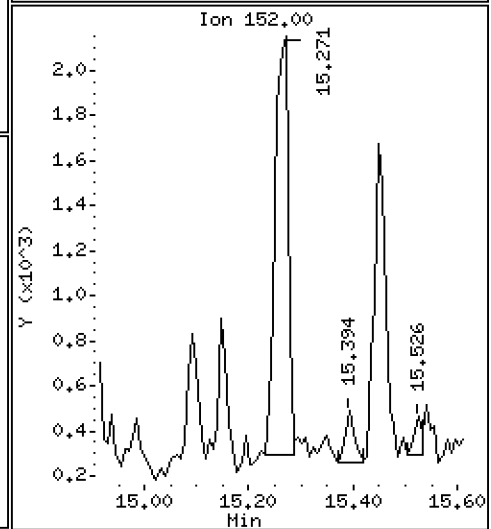
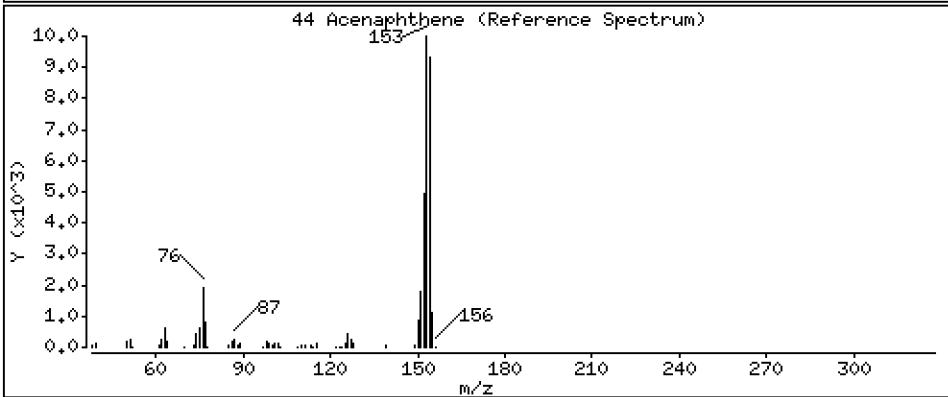
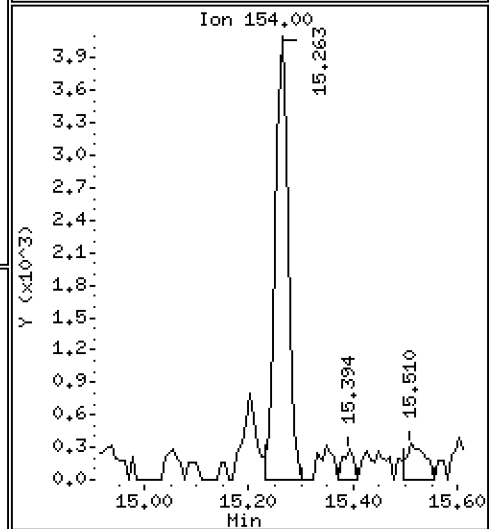
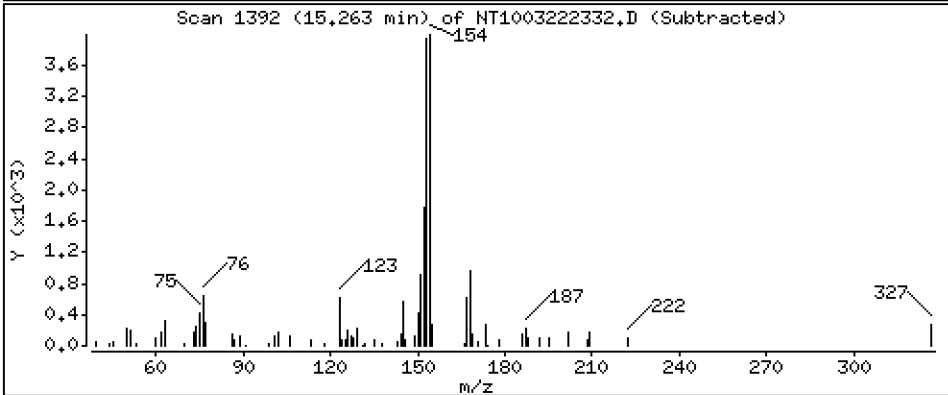
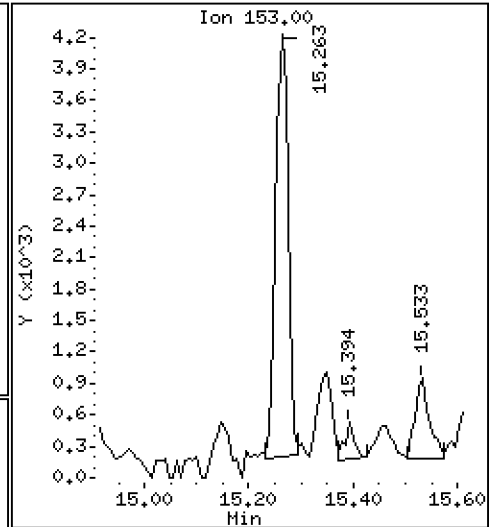
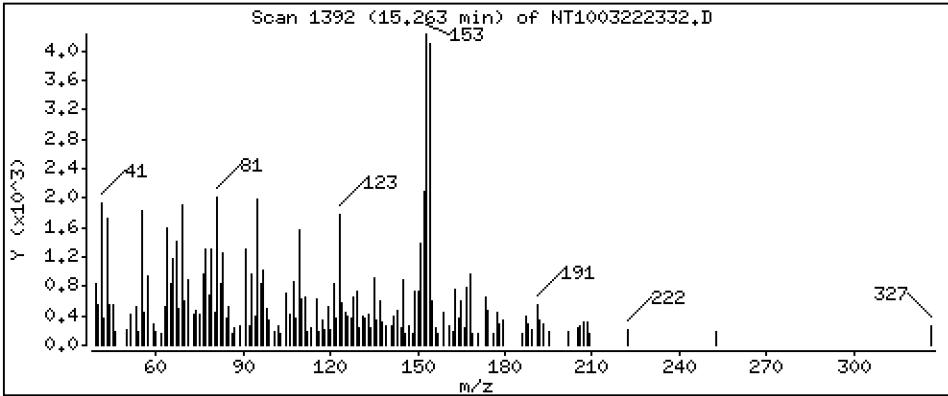
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

44 Acenaphthene

Concentration: 0.07543 ug/mL



Date : 23-MAR-2023 12:44

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-04RE1

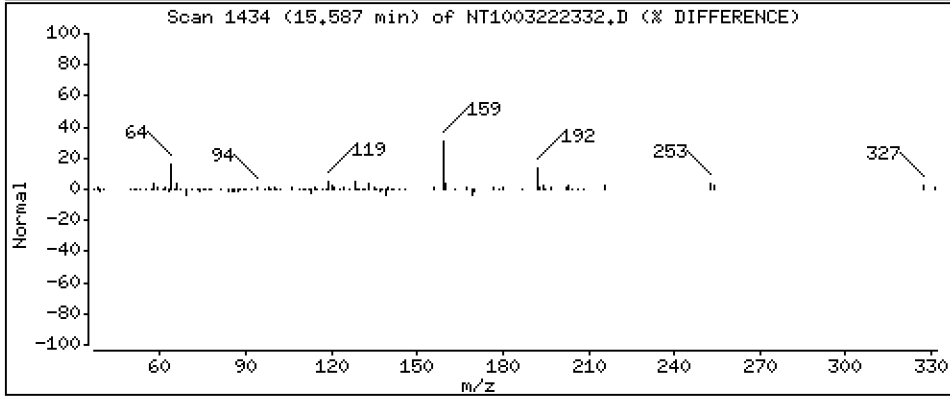
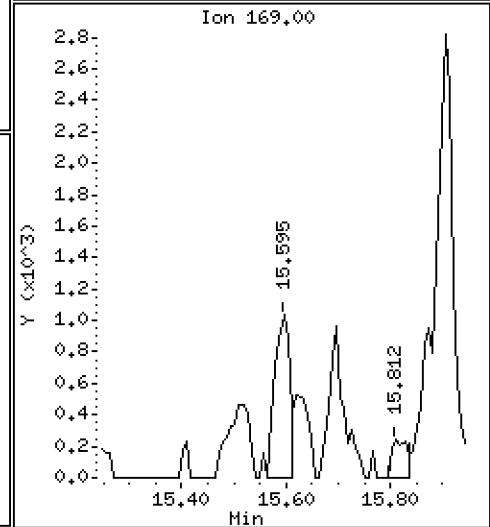
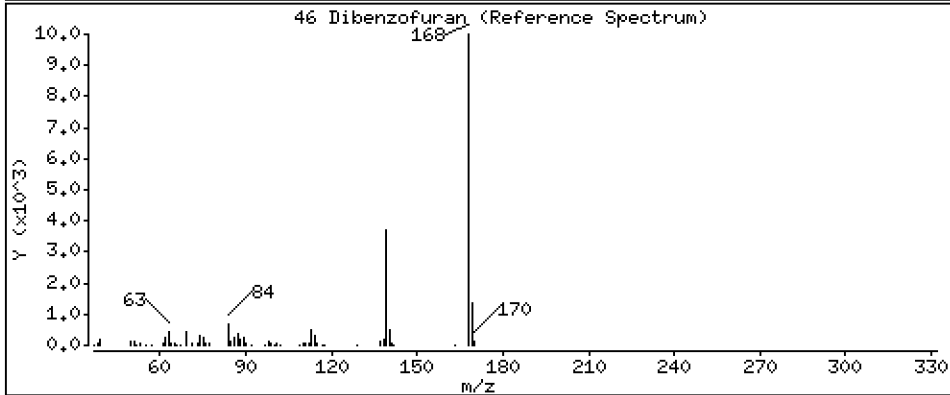
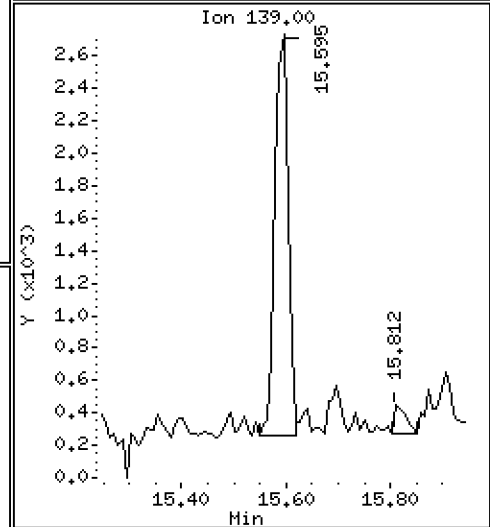
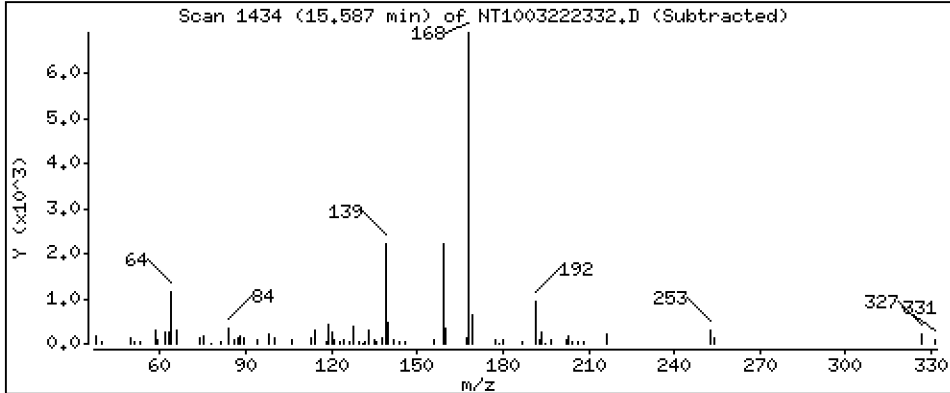
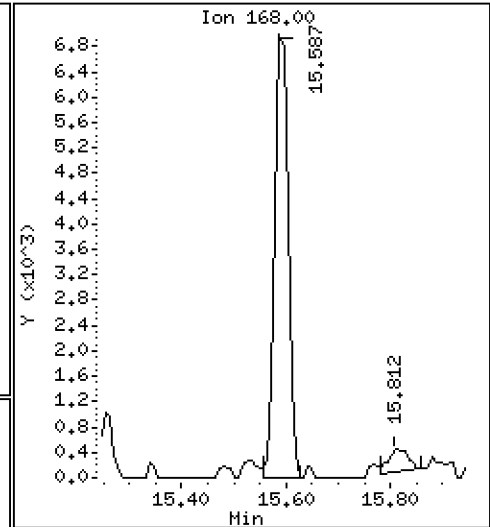
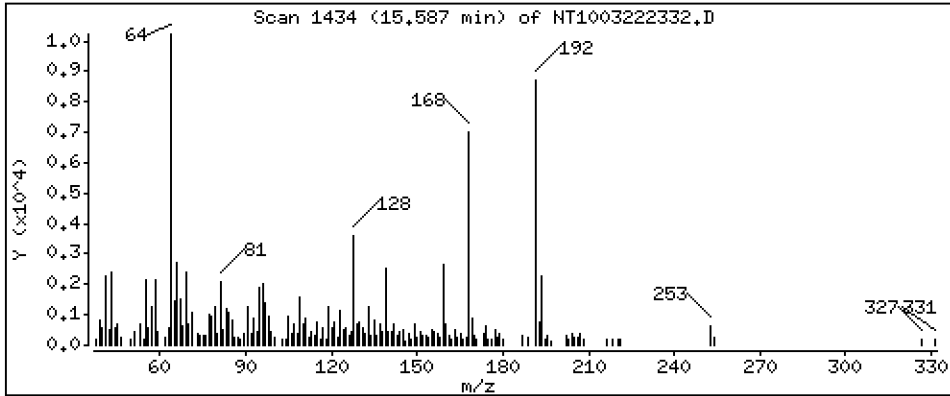
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

46 Dibenzofuran

Concentration: 0.09588 ug/mL



Date : 23-MAR-2023 12:44

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-04RE1

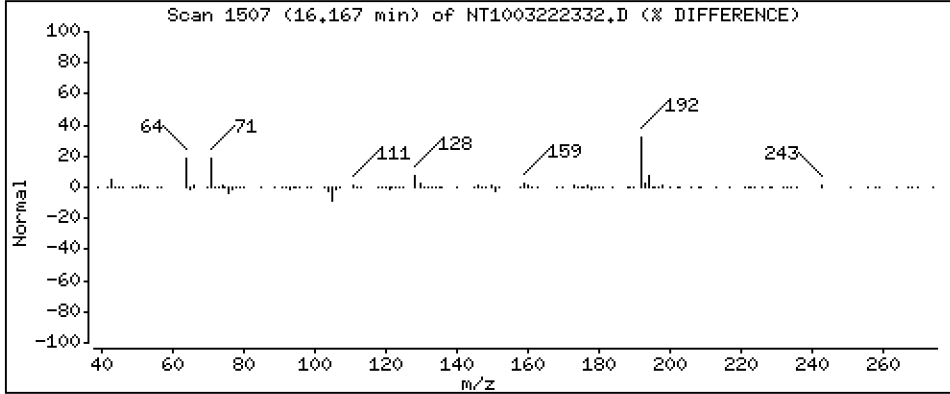
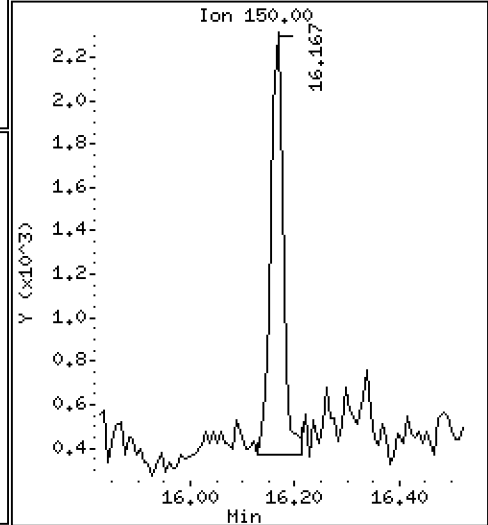
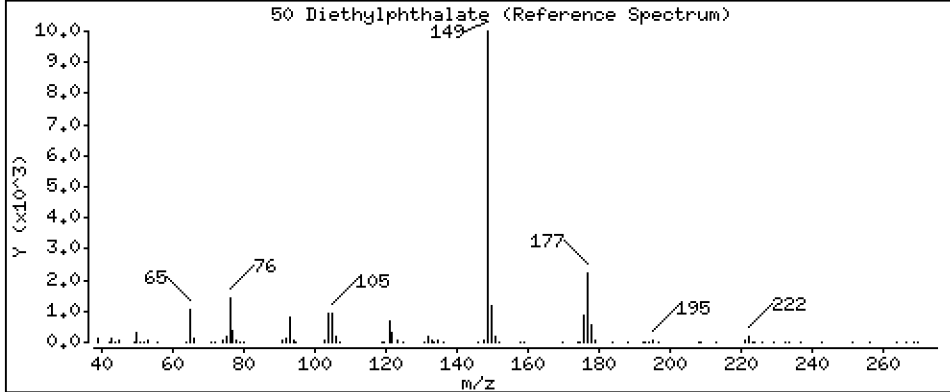
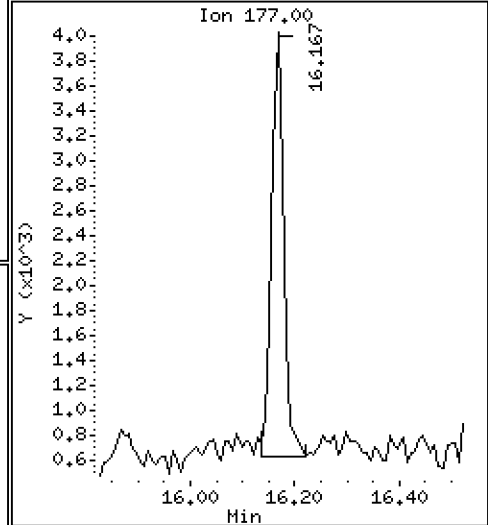
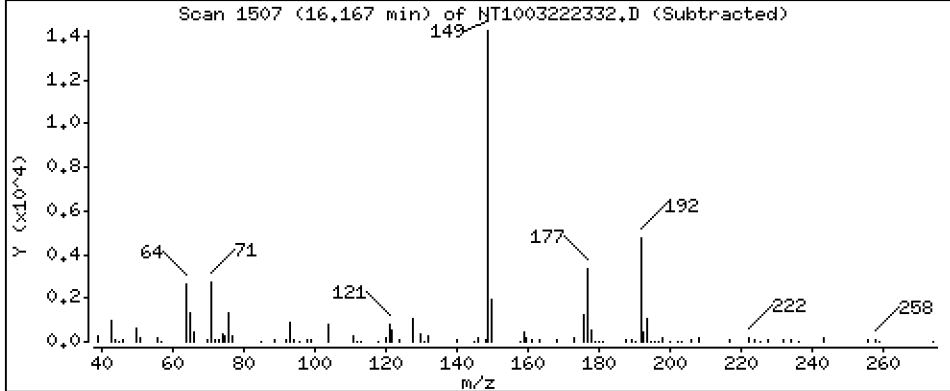
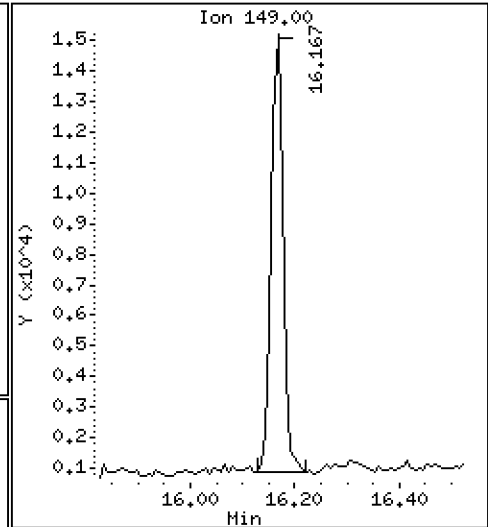
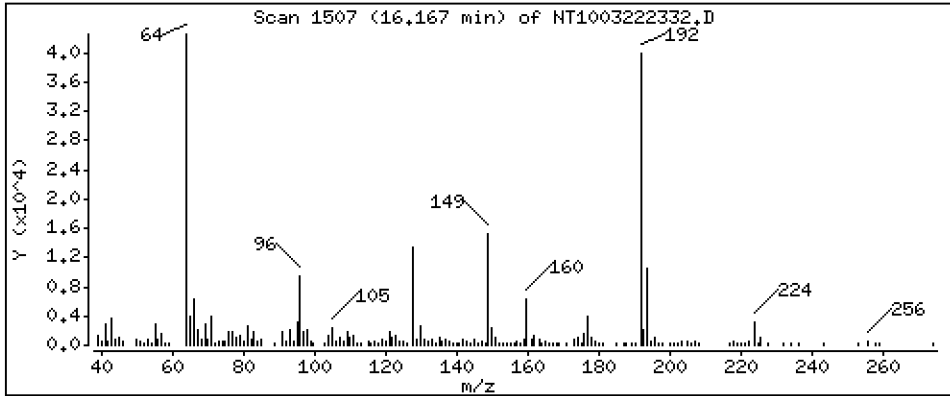
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 0,2877 ug/mL



Date : 23-MAR-2023 12:44

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-04RE1

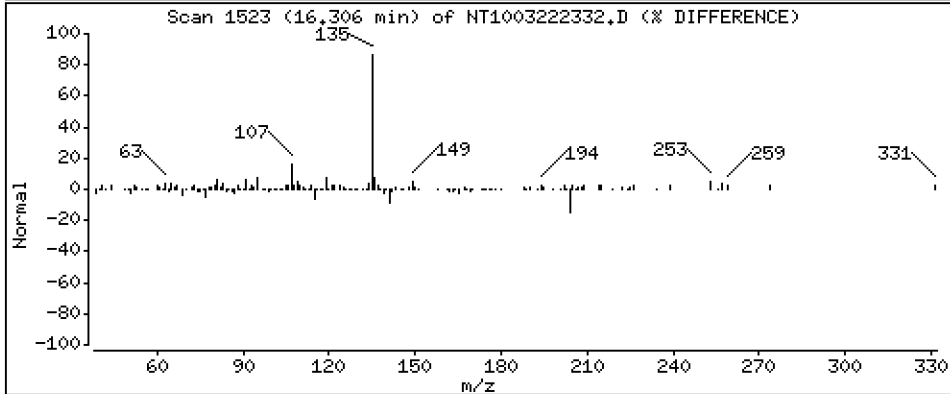
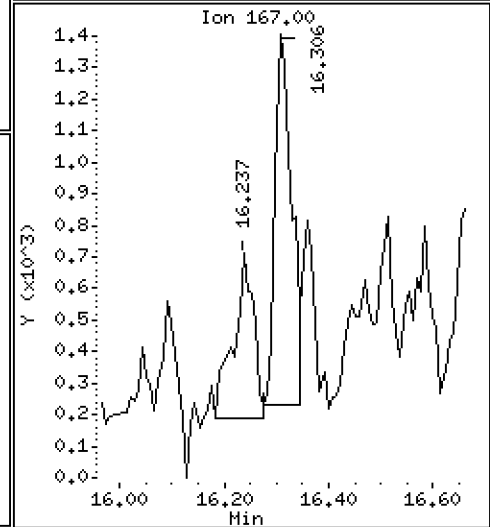
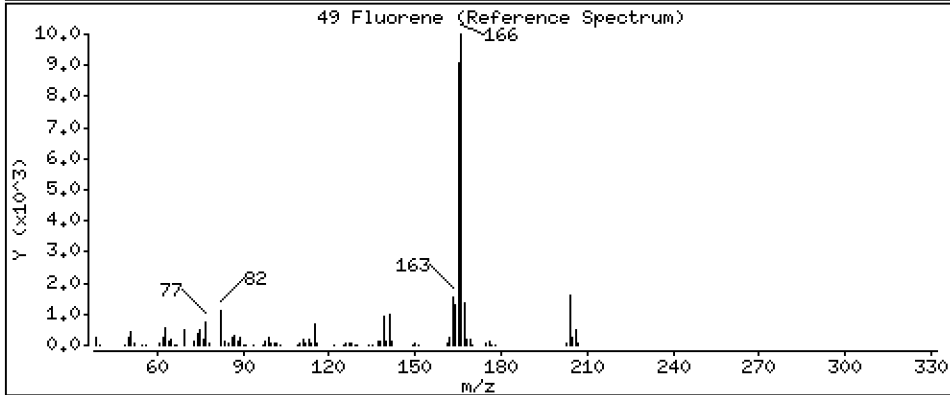
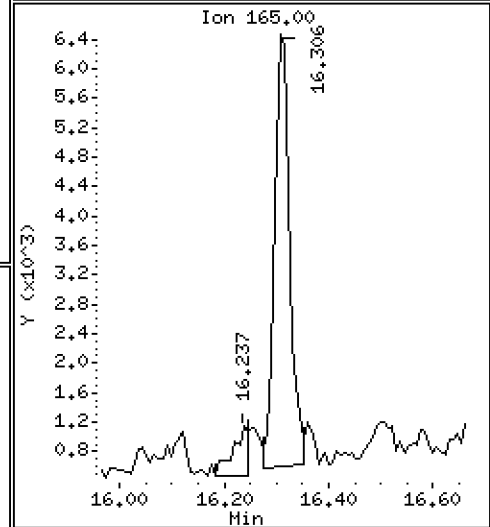
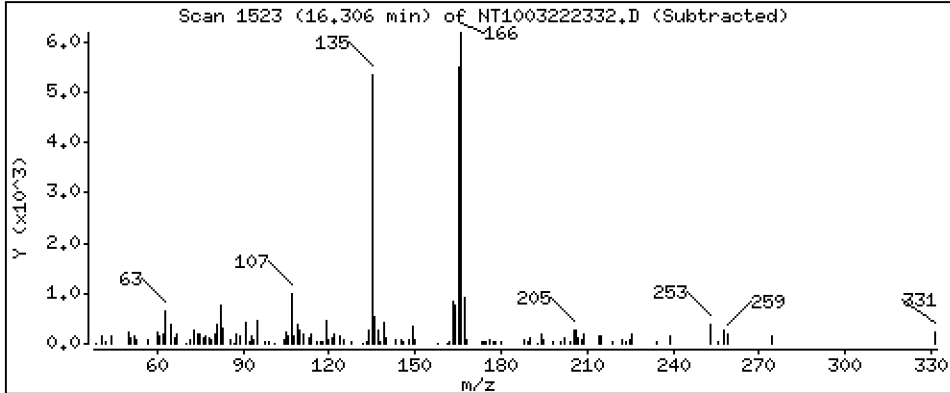
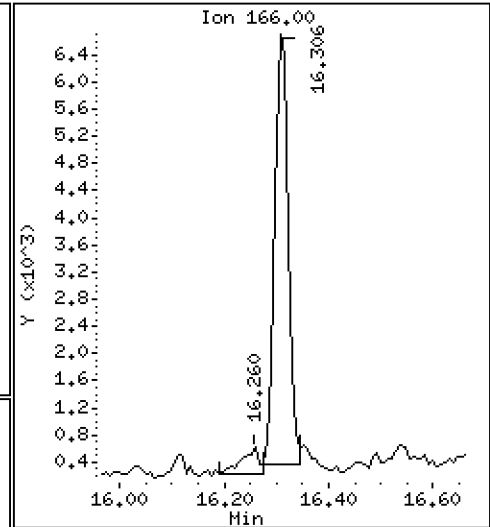
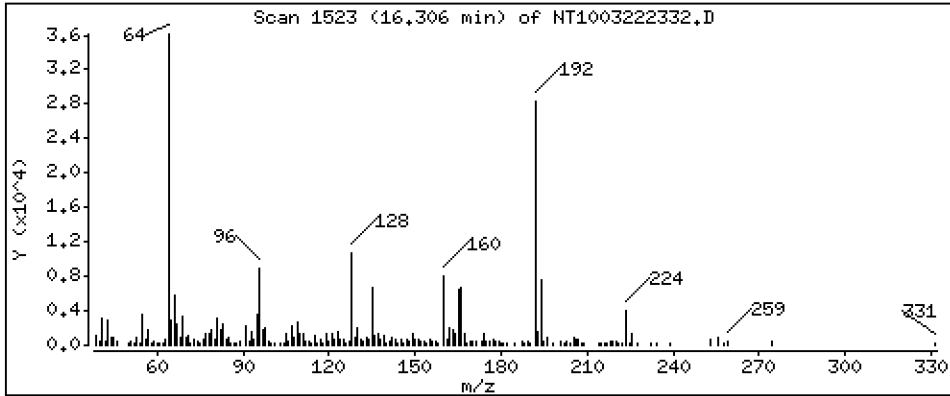
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

49 Fluorene

Concentration: 0.1108 ug/mL



Date : 23-MAR-2023 12:44

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-04RE1

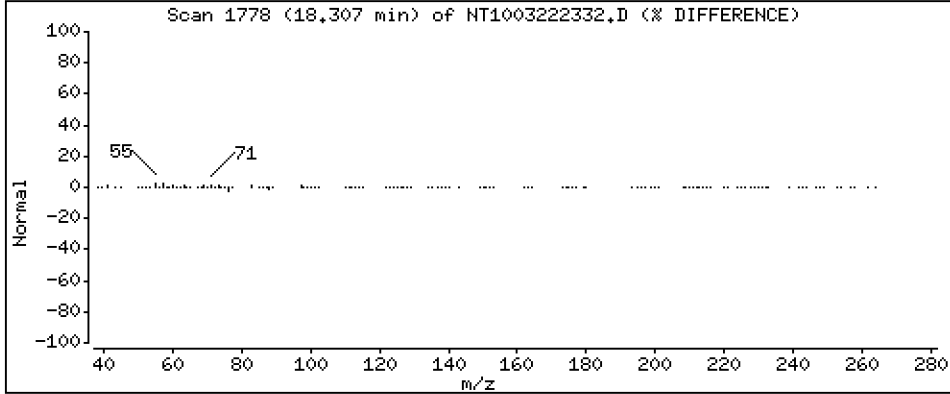
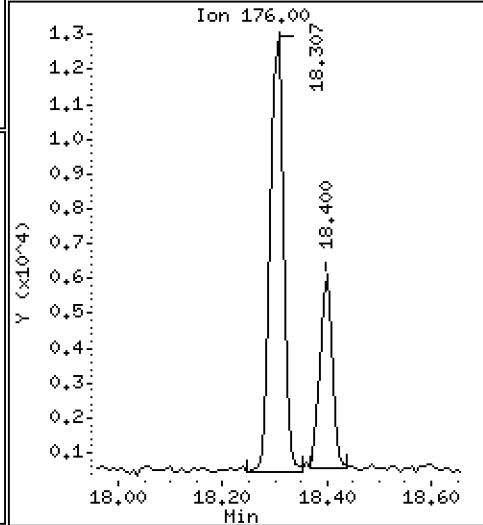
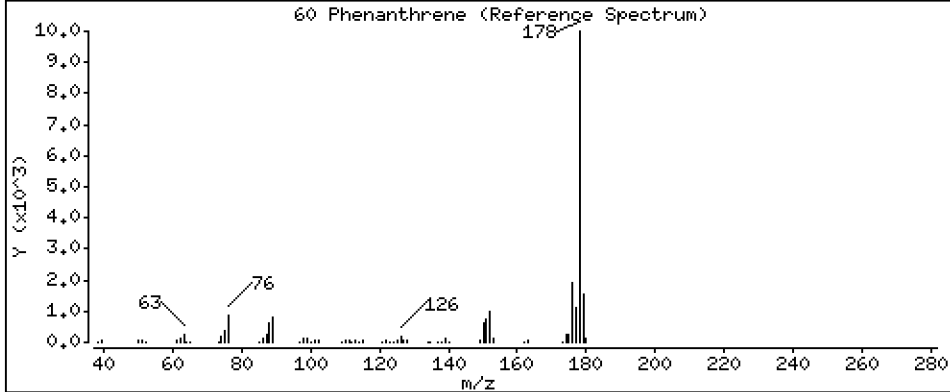
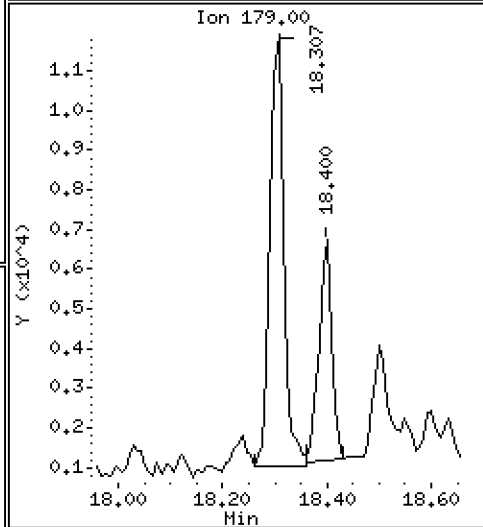
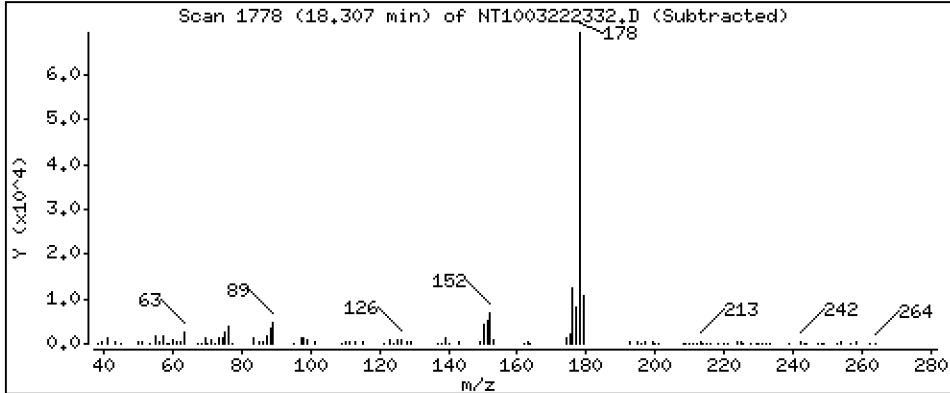
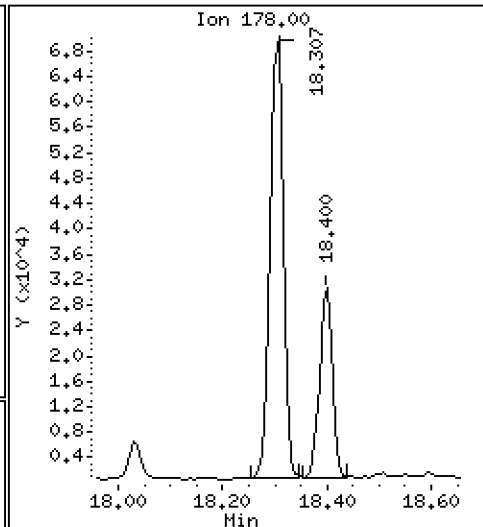
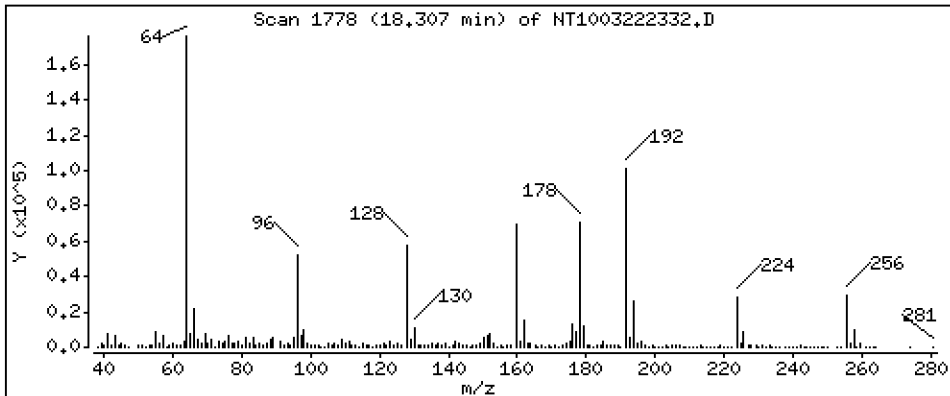
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

60 Phenanthrene

Concentration: 0.8124 ug/mL



Date : 23-MAR-2023 12:44

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-04RE1

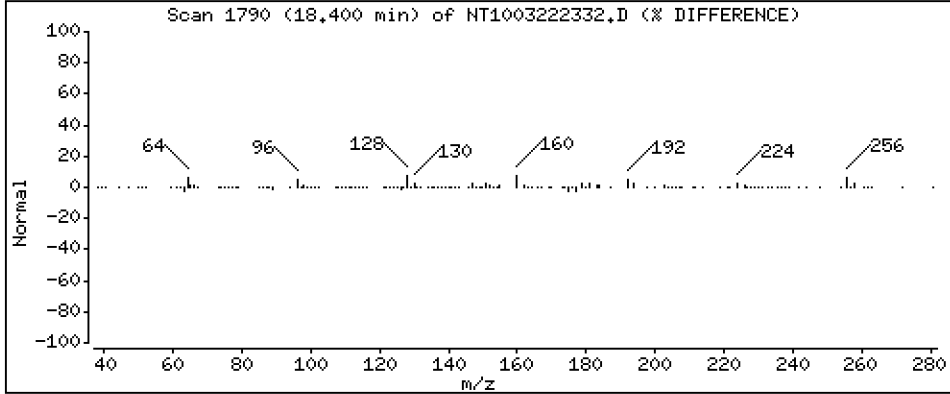
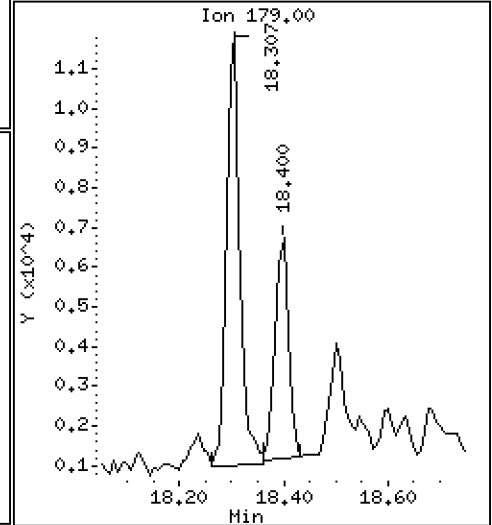
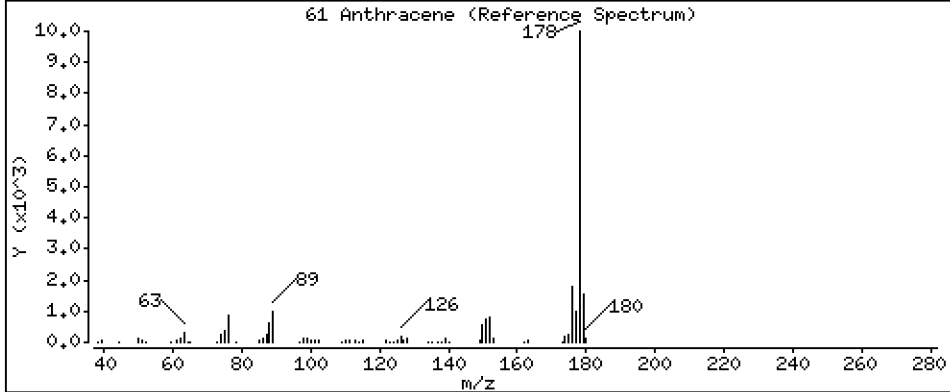
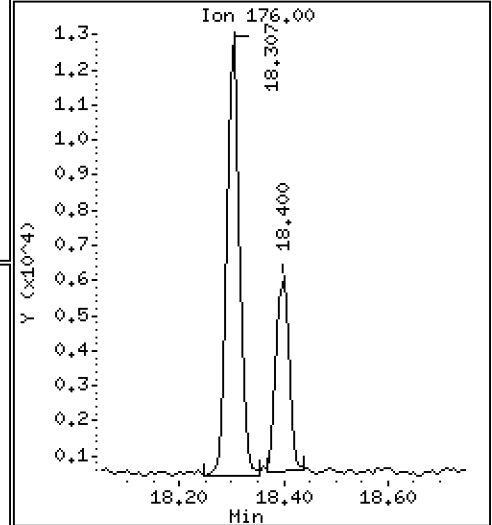
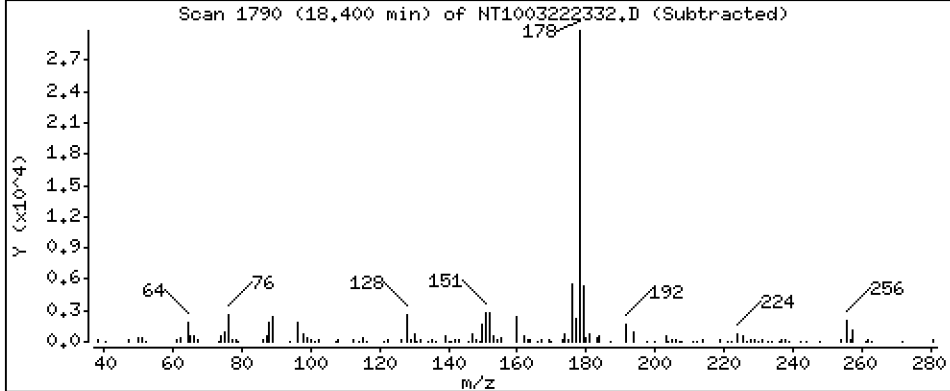
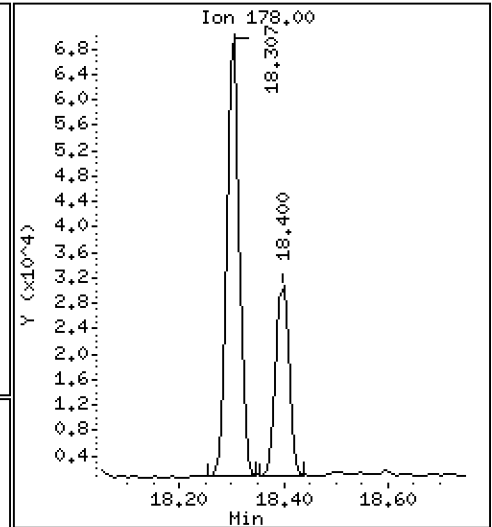
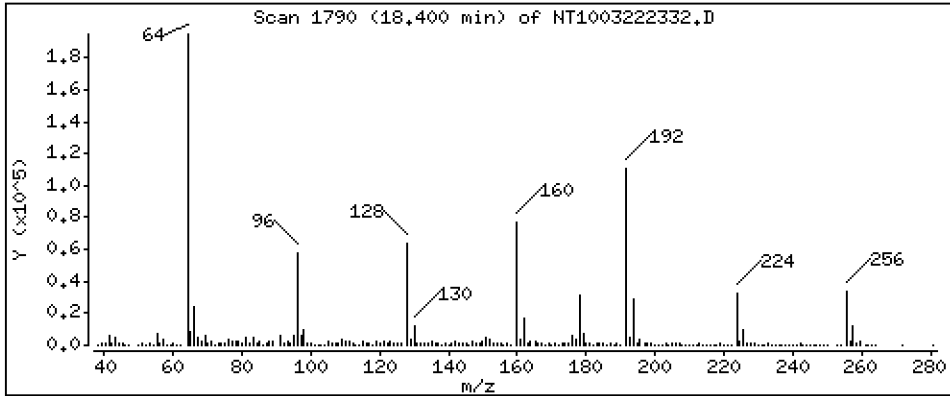
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 0,3738 ug/mL



Date : 23-MAR-2023 12:44

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-04RE1

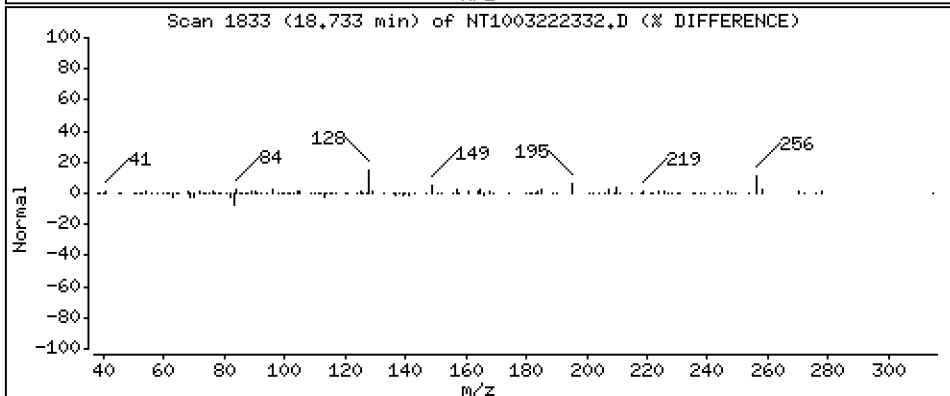
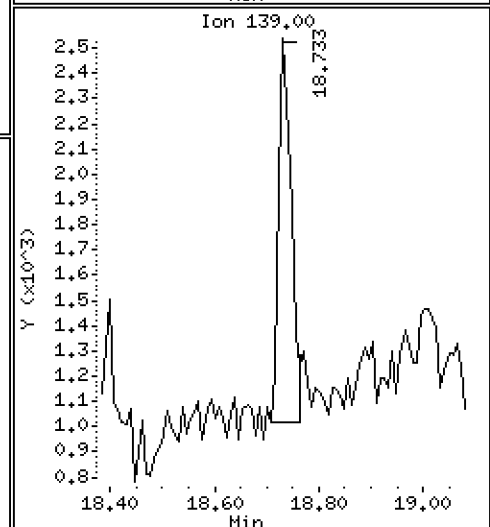
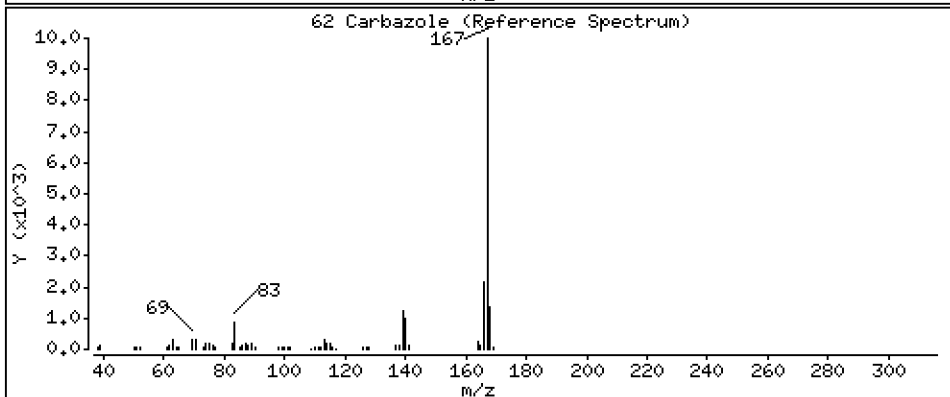
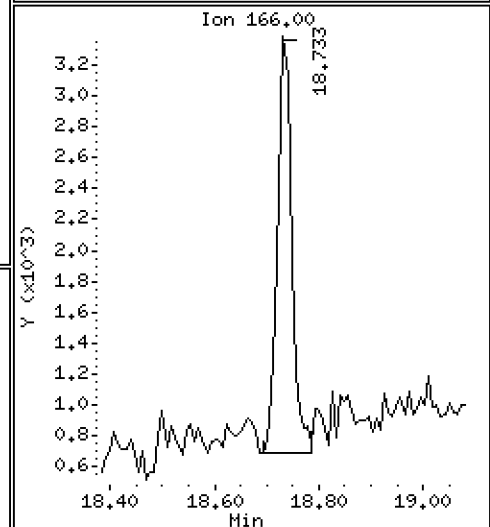
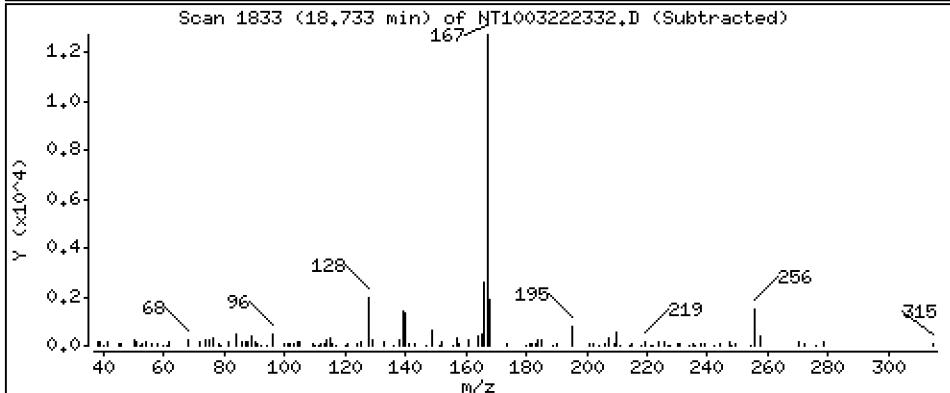
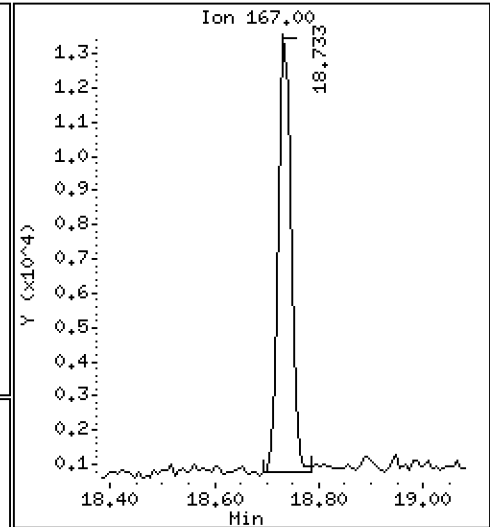
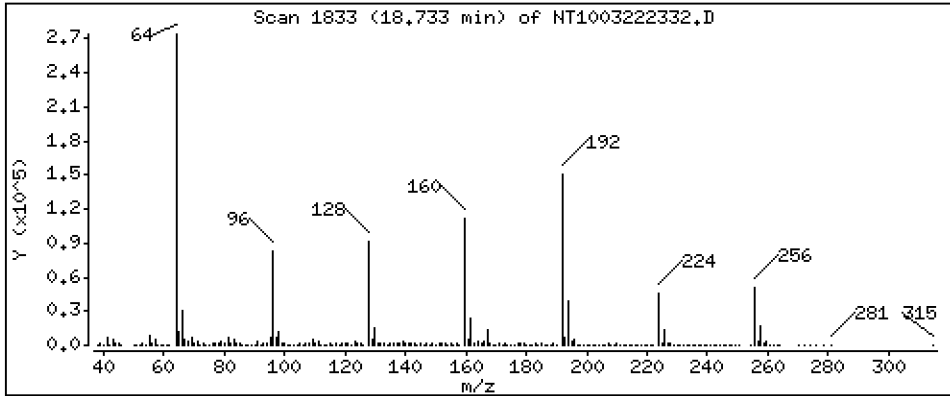
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

62 Carbazole

Concentration: 0.1687 ug/mL



Date : 23-MAR-2023 12:44

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-04RE1

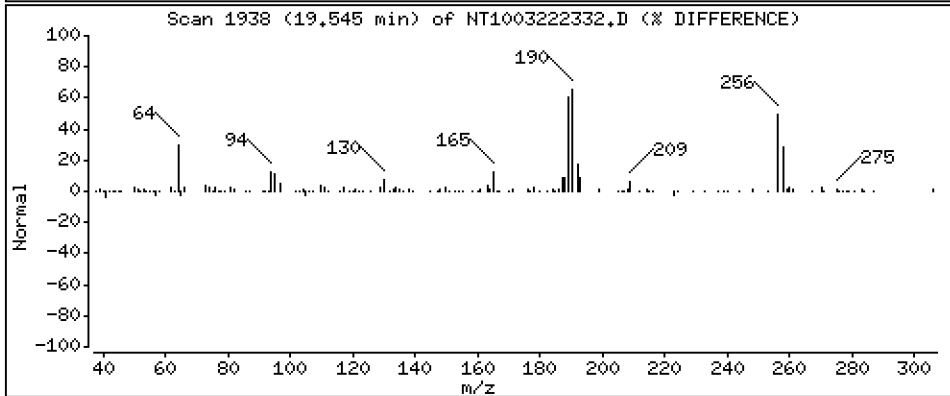
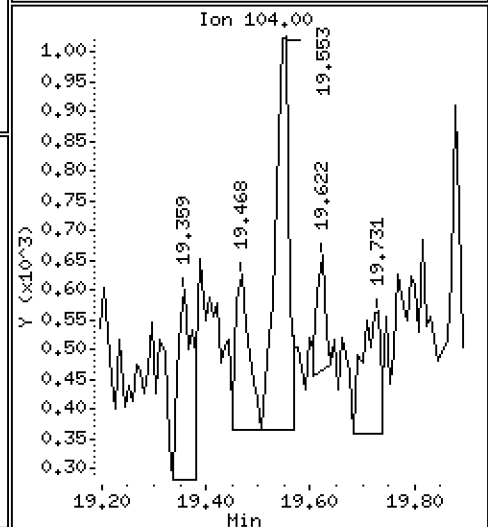
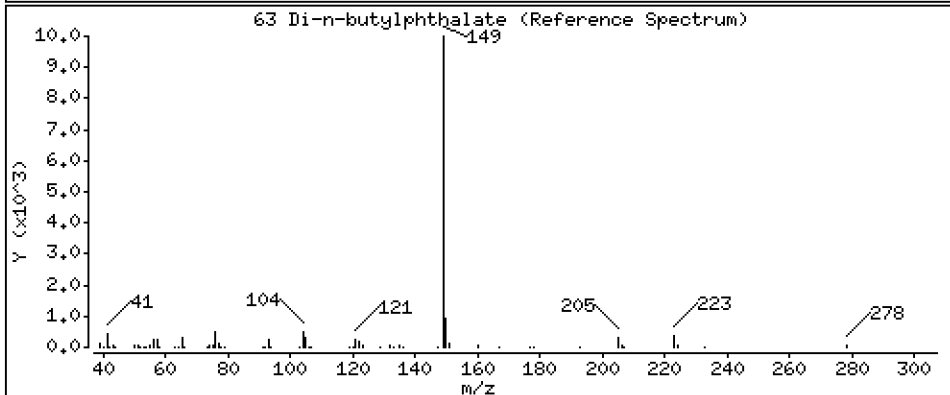
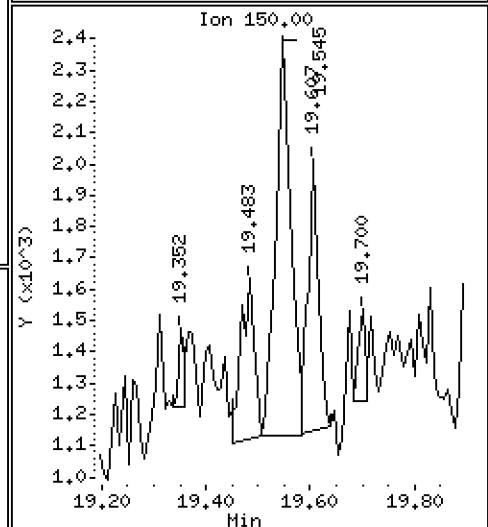
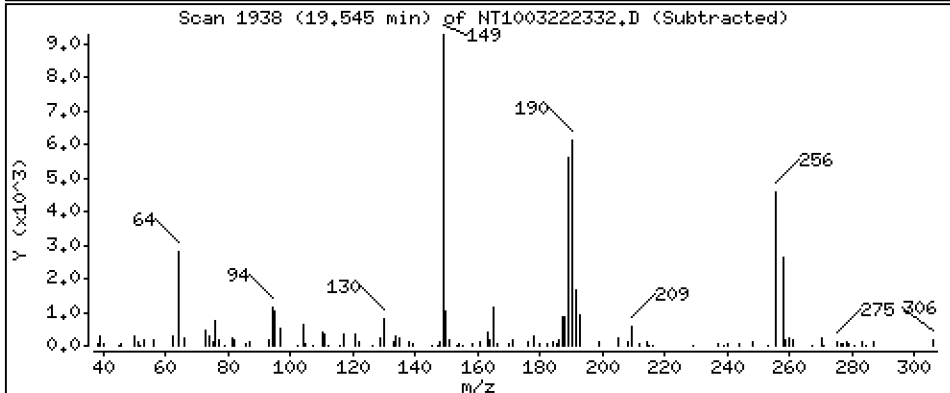
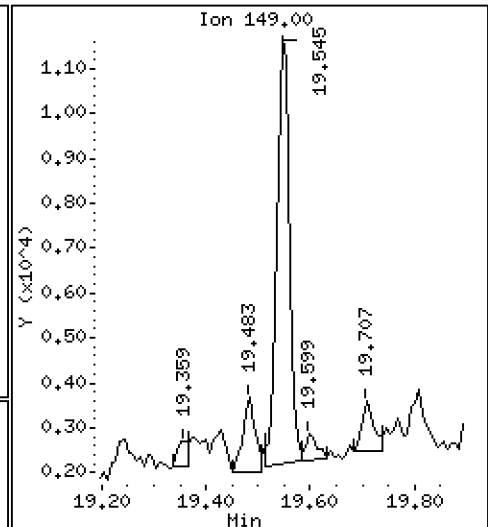
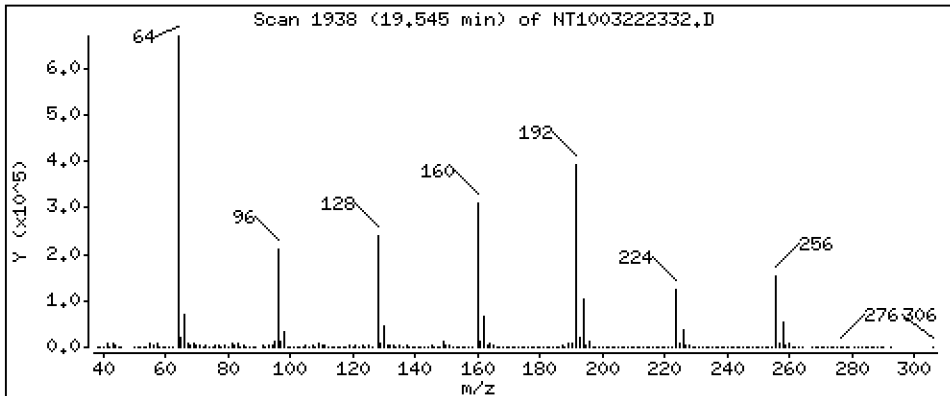
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

63 Di-n-butylphthalate

Concentration: 0.09281 ug/mL



Date : 23-MAR-2023 12:44

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-04RE1

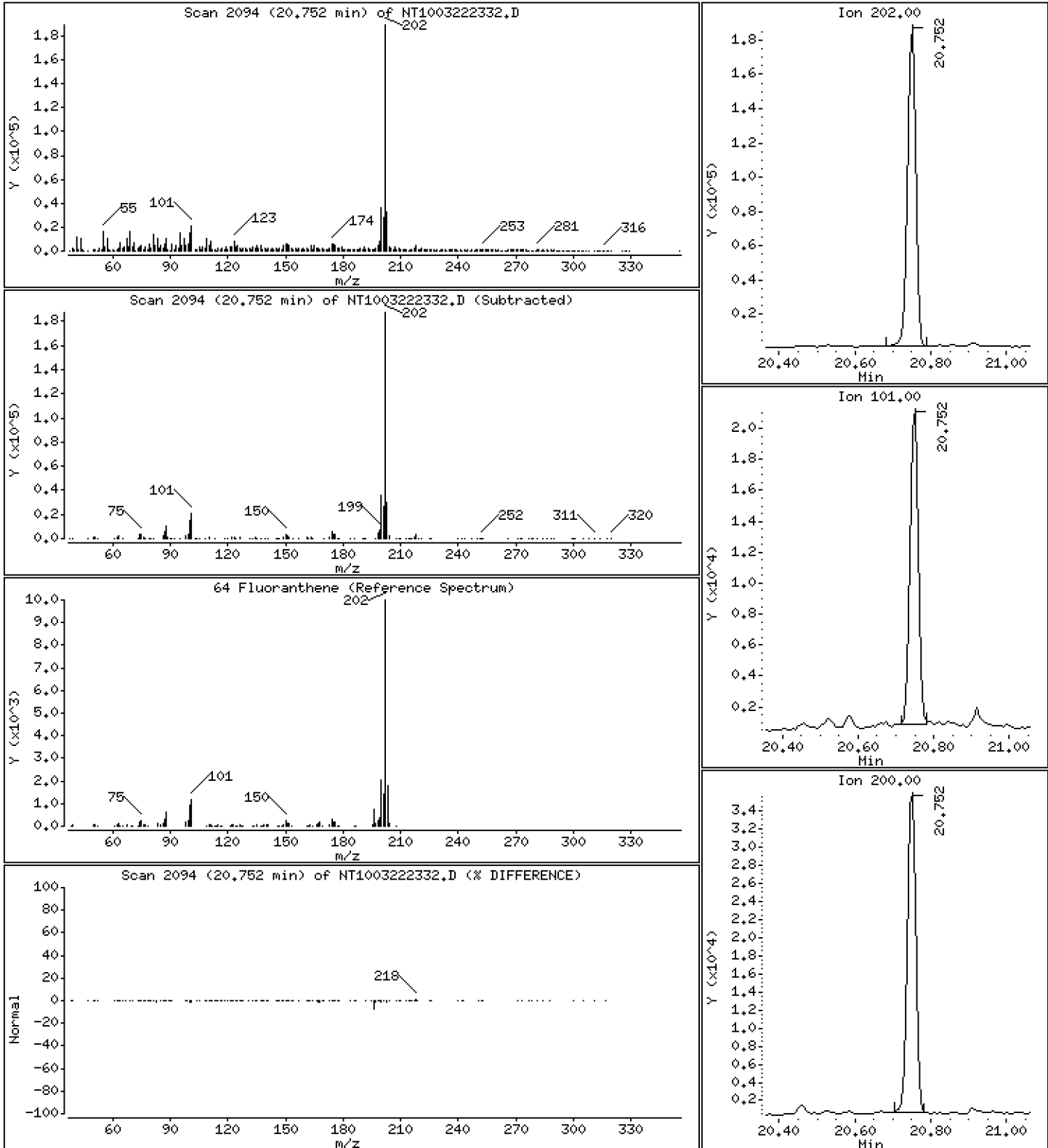
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 1,515 ug/mL



Date : 23-MAR-2023 12:44

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-04RE1

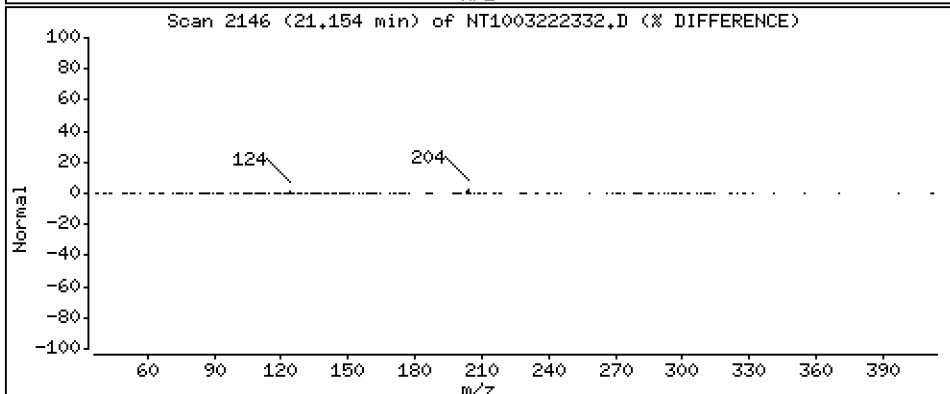
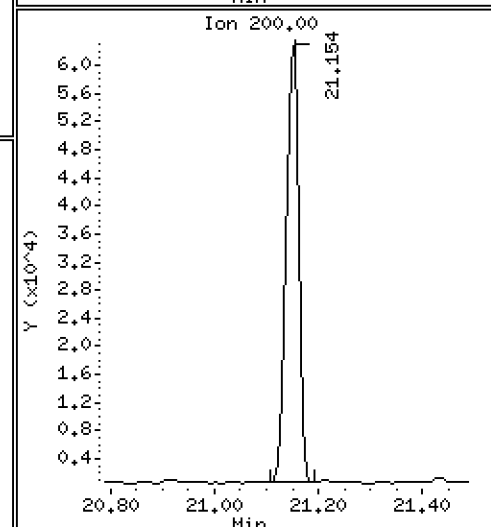
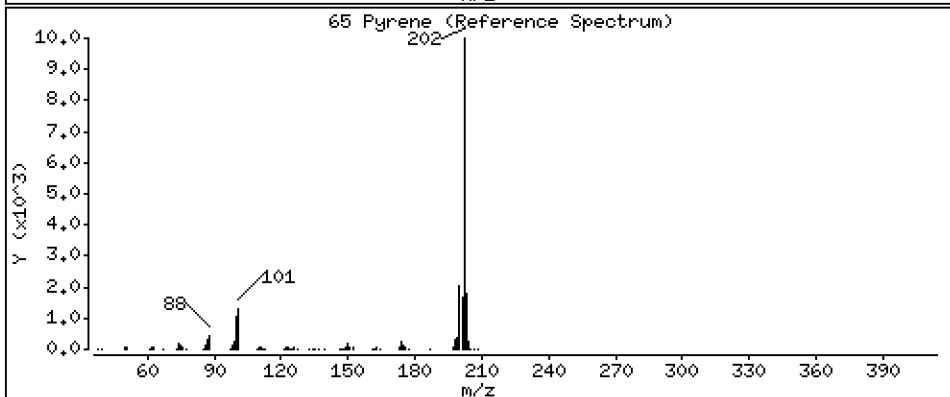
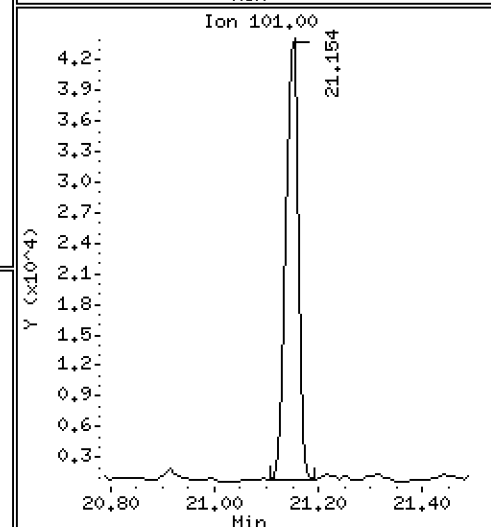
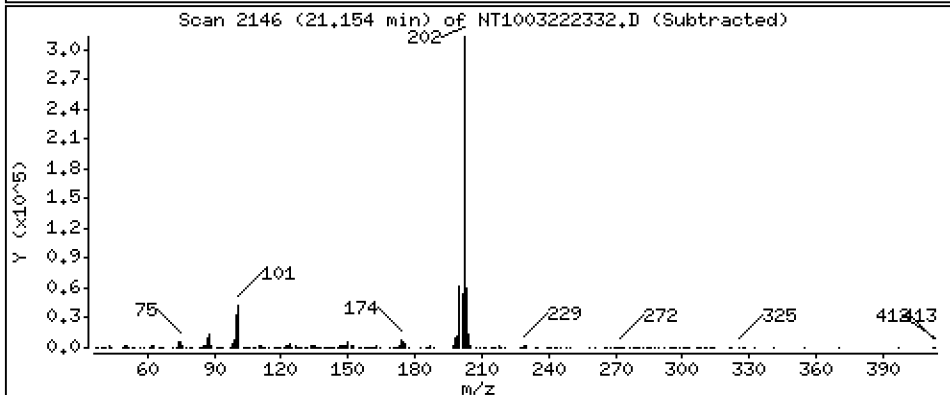
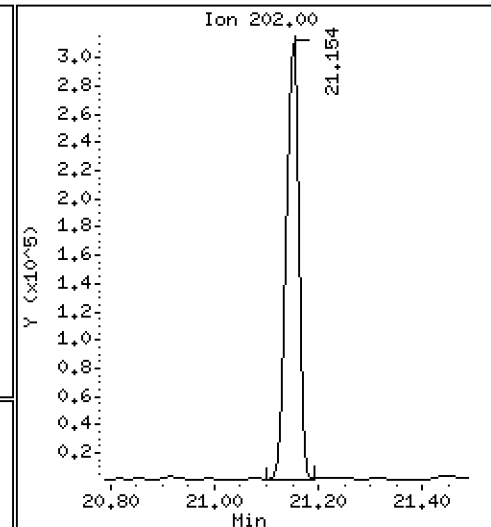
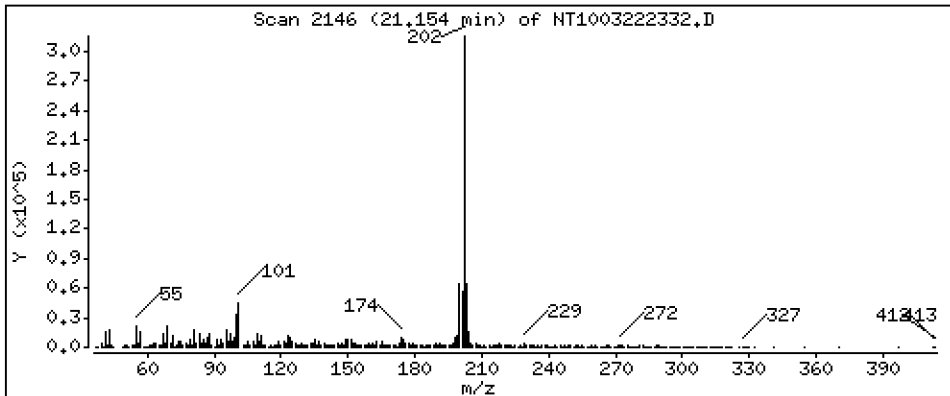
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 2,474 ug/mL



Date : 23-MAR-2023 12:44

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-04RE1

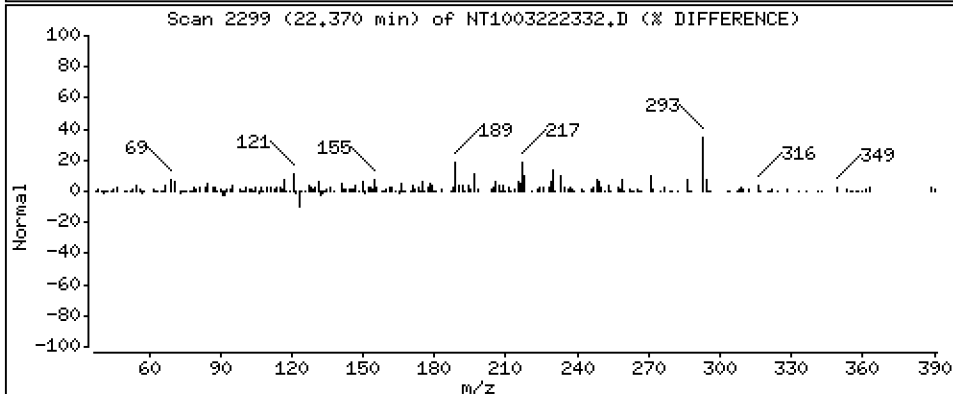
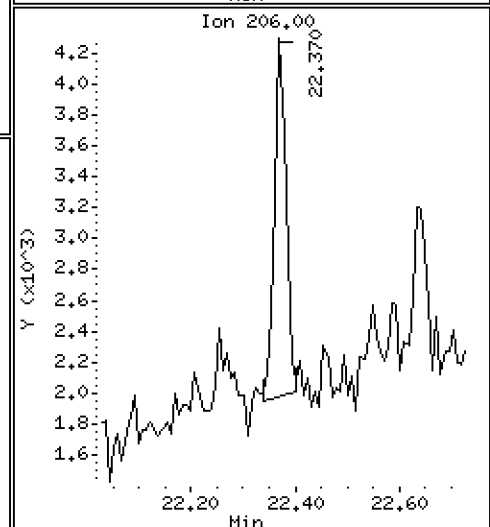
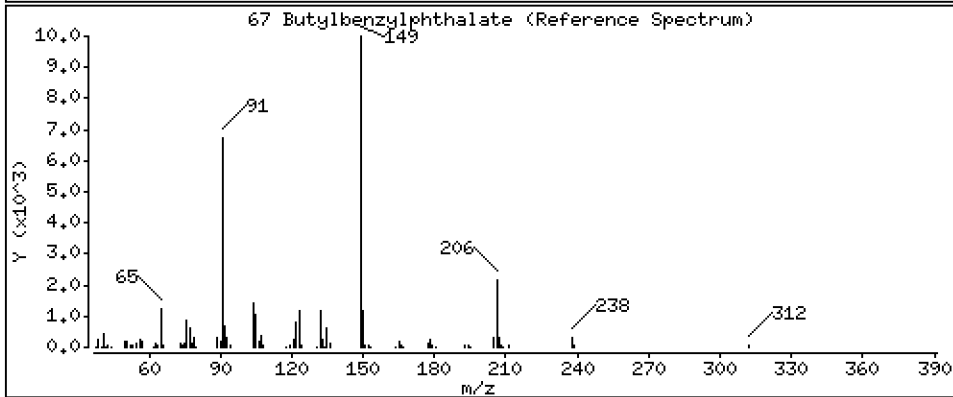
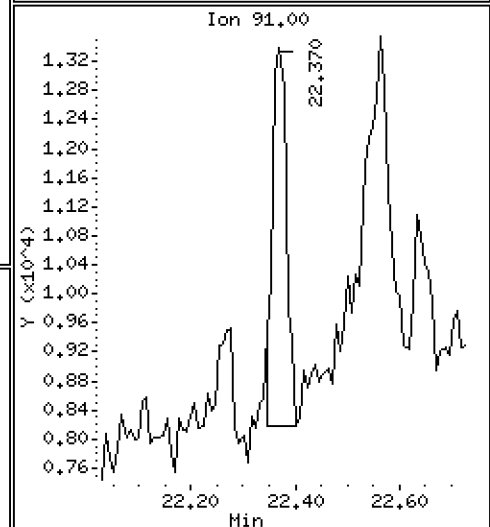
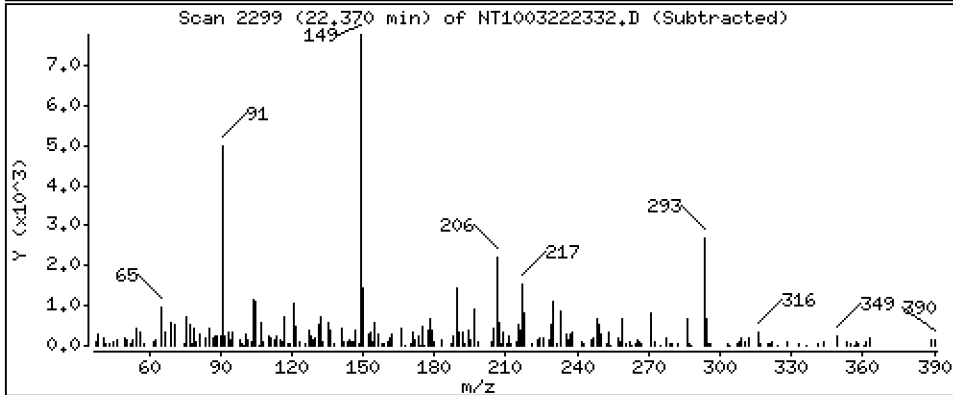
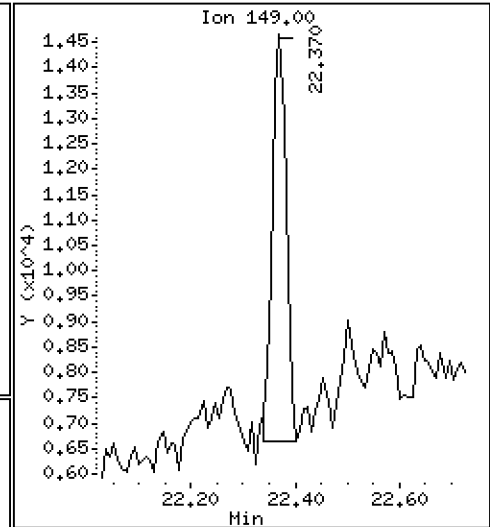
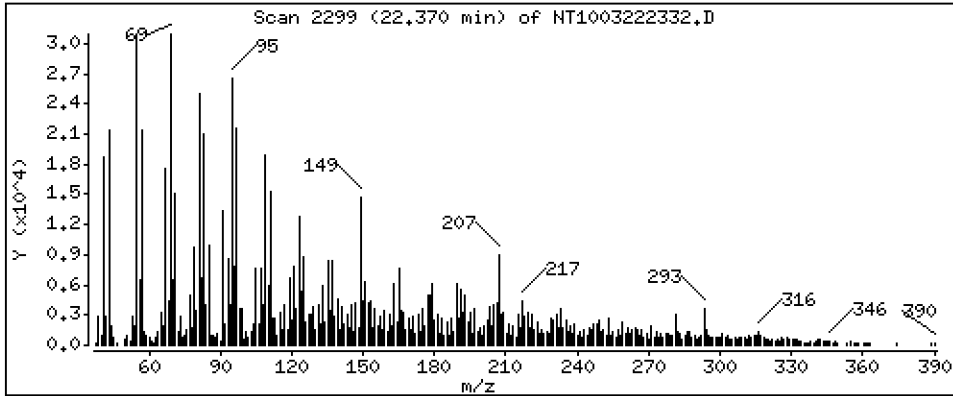
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

67 Butylbenzylphthalate

Concentration: 0.2010 ug/mL



Date : 23-MAR-2023 12:44

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-04RE1

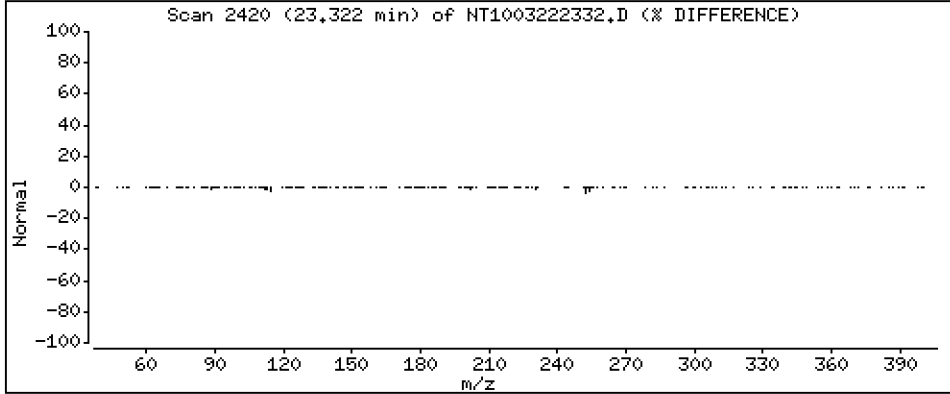
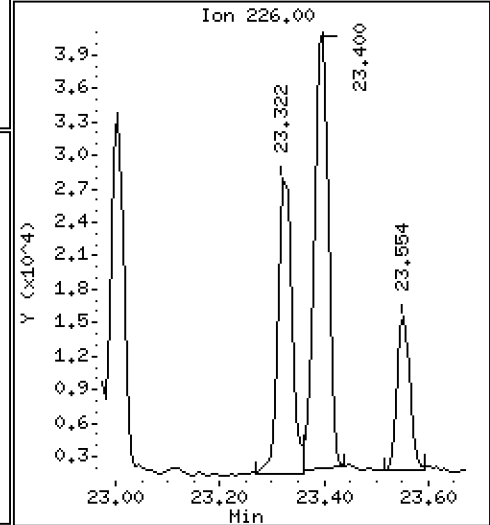
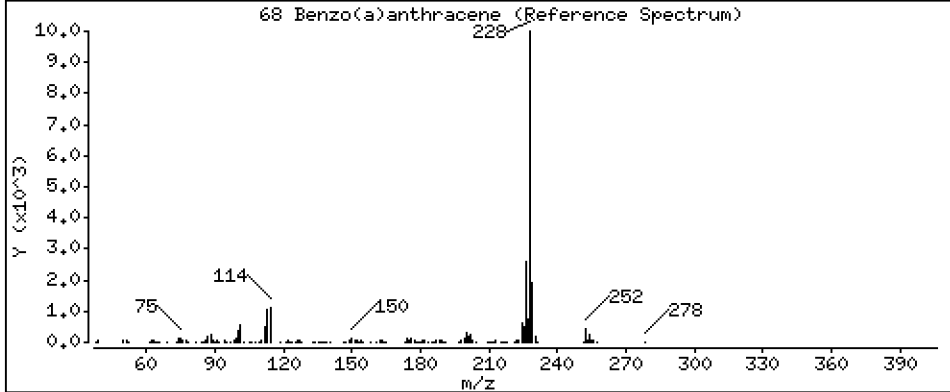
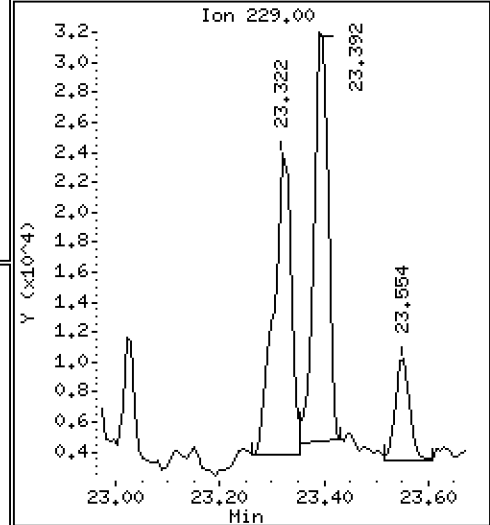
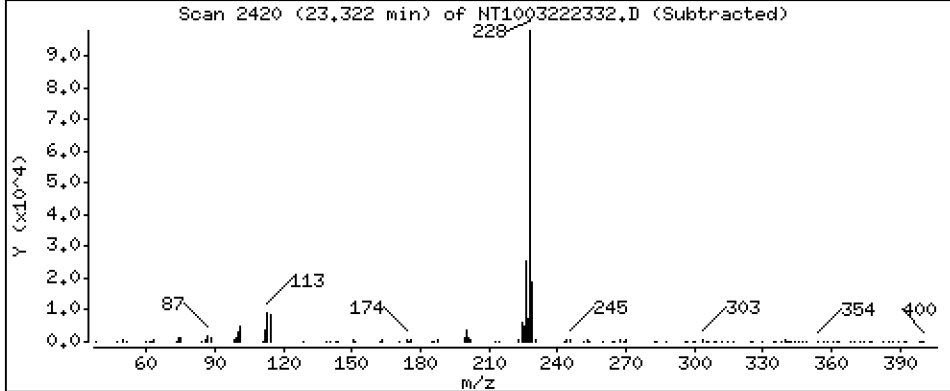
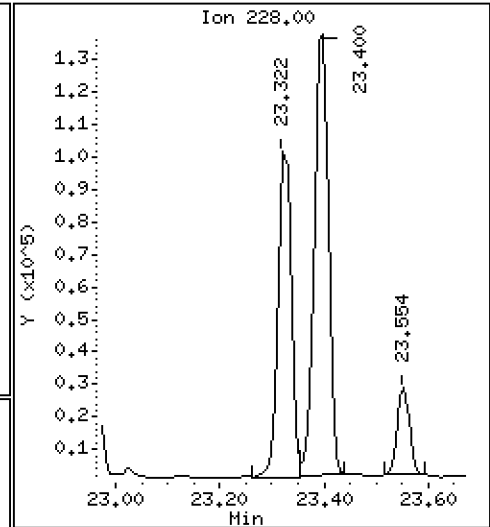
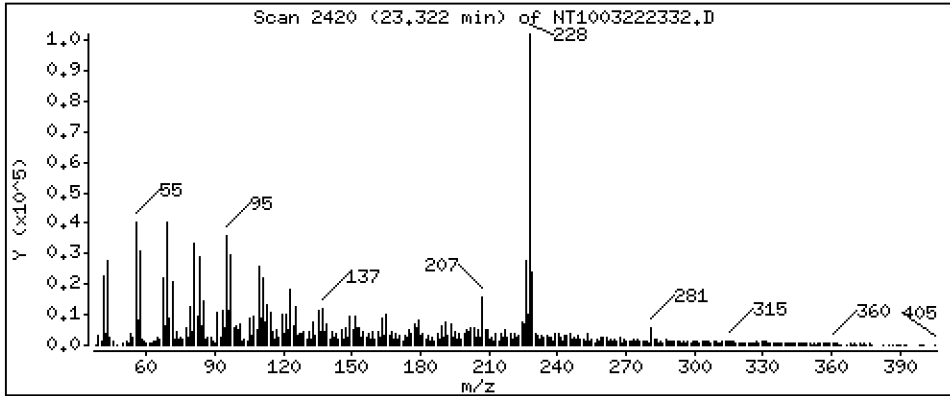
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 0,9760 ug/mL



Date : 23-MAR-2023 12:44

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-04RE1

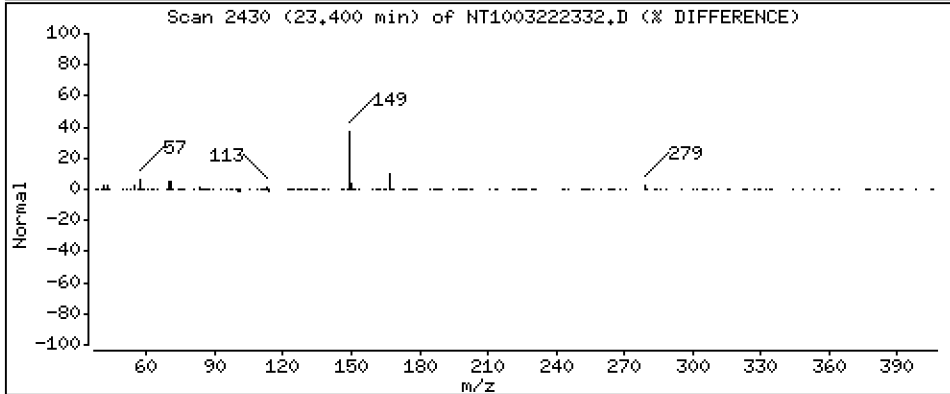
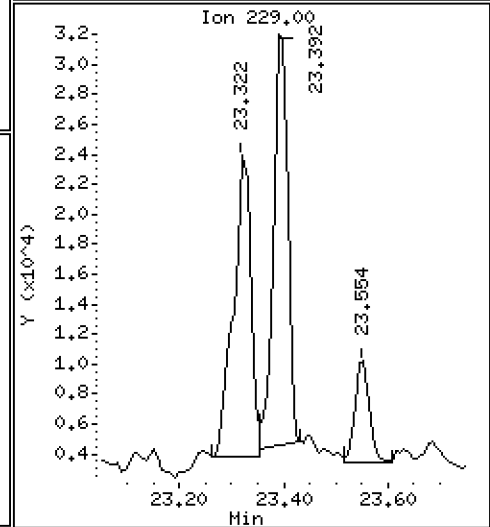
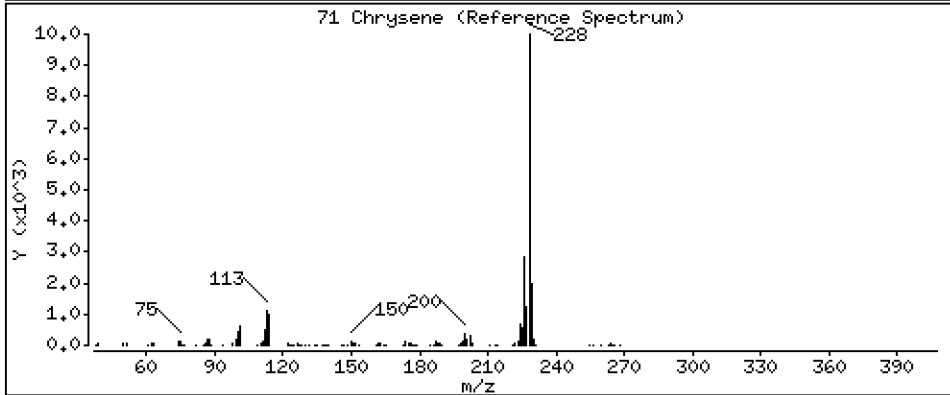
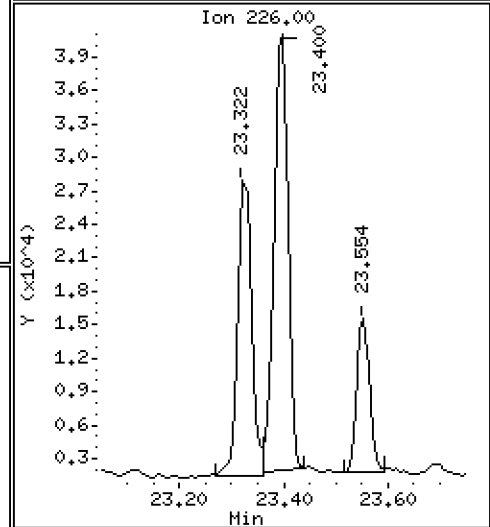
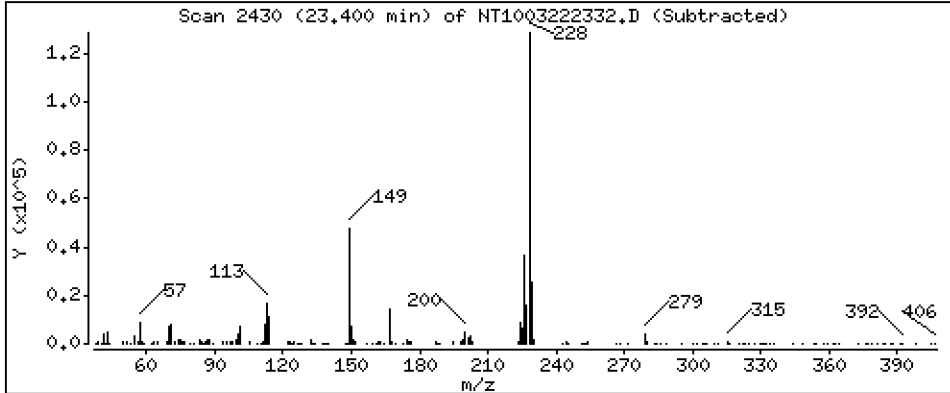
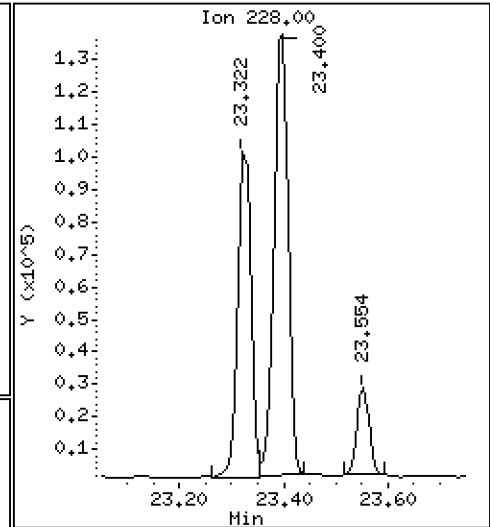
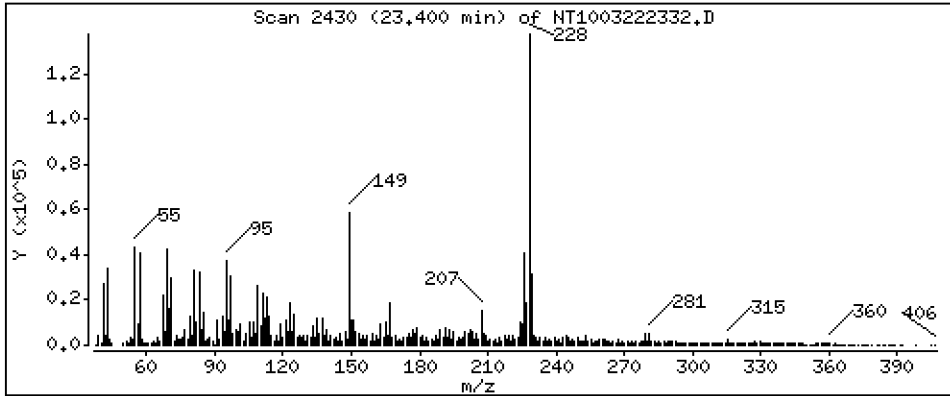
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 1,454 ug/mL



Date : 23-MAR-2023 12:44

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-04RE1

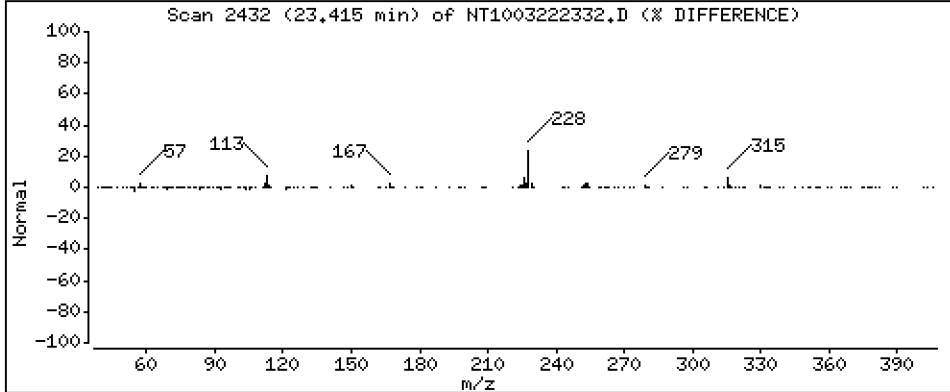
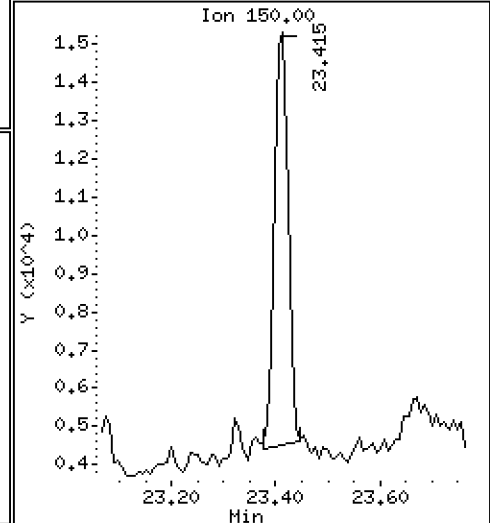
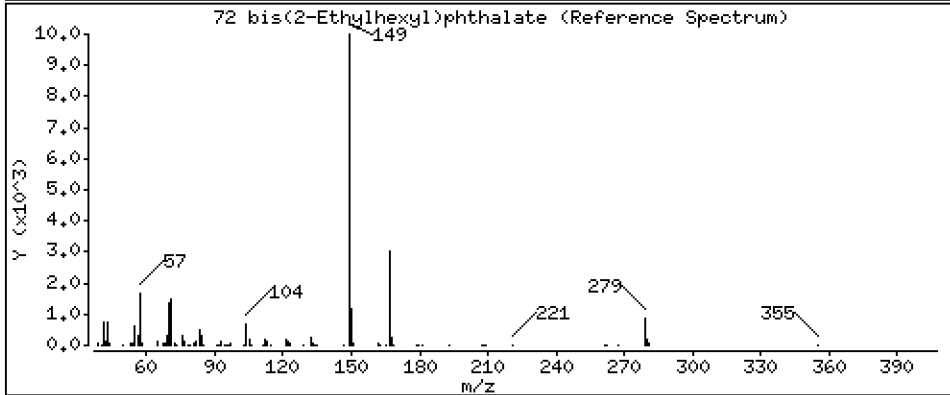
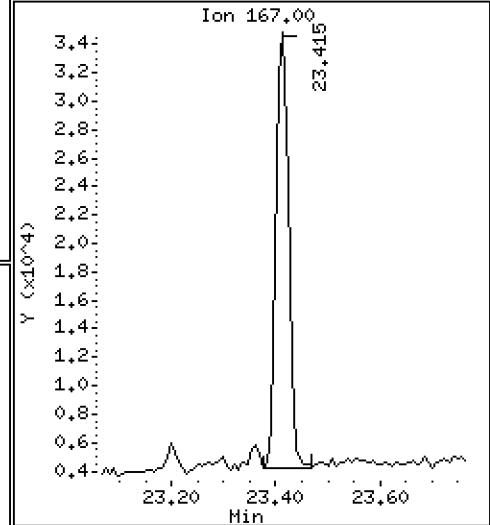
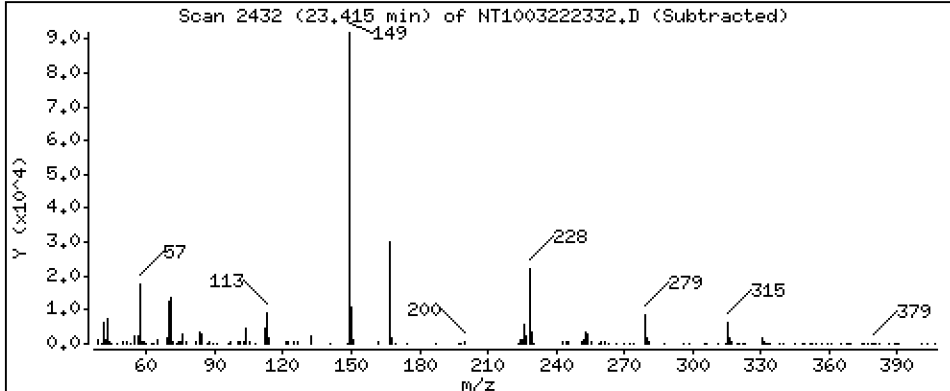
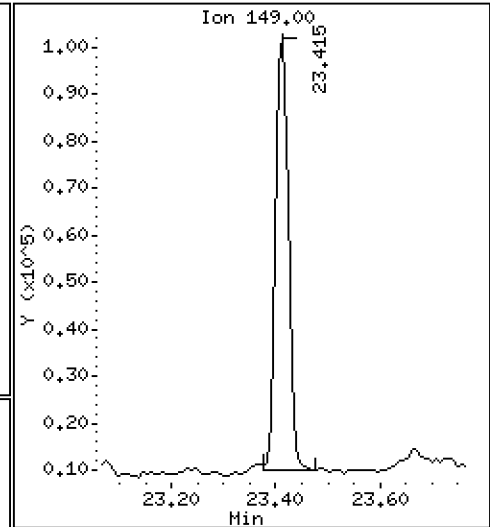
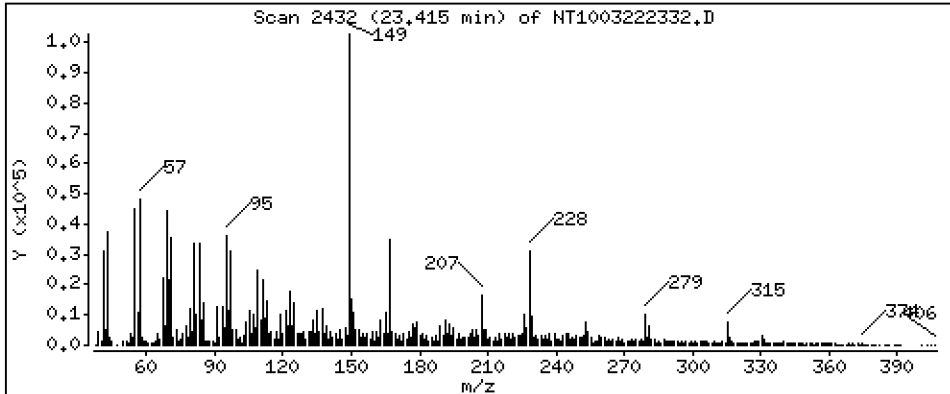
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 1,304 ug/mL



Date : 23-MAR-2023 12:44

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-04RE1

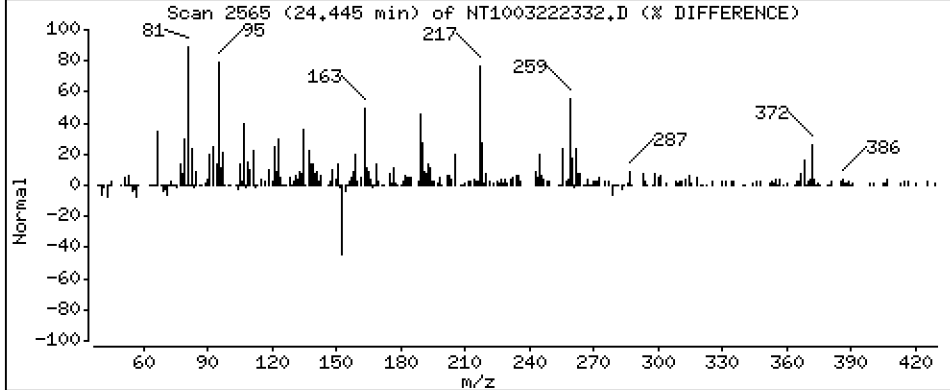
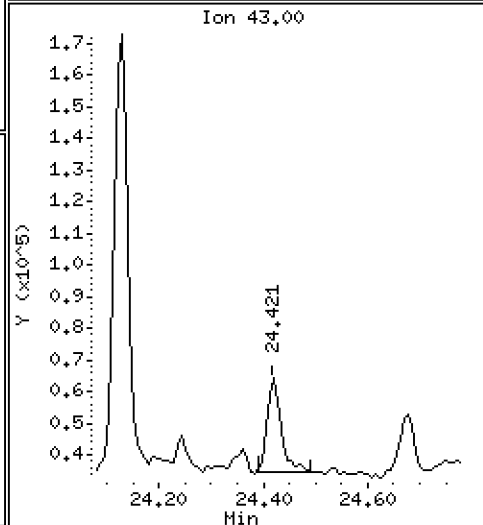
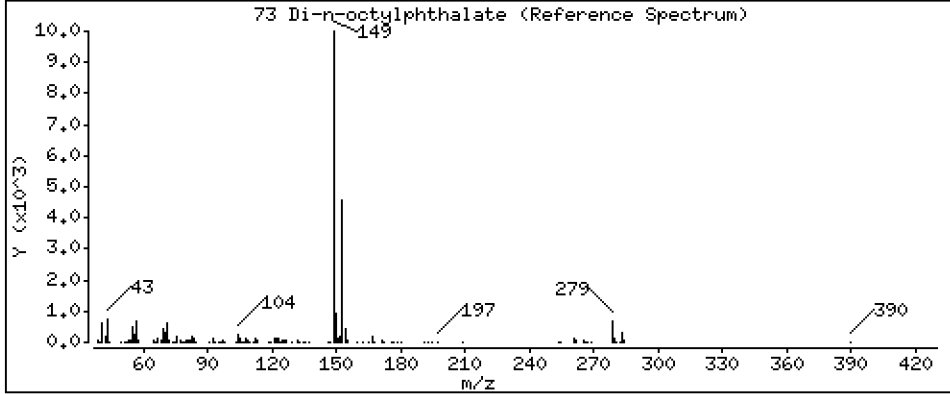
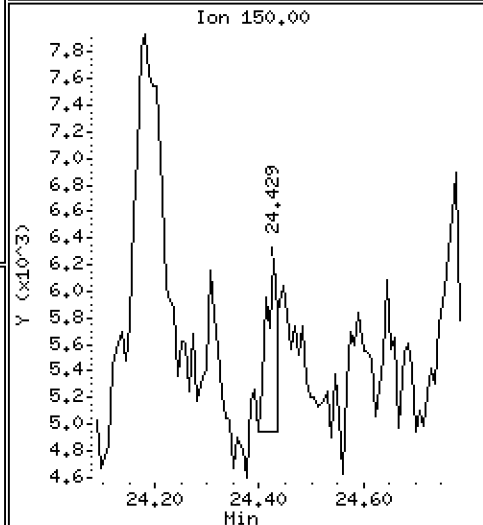
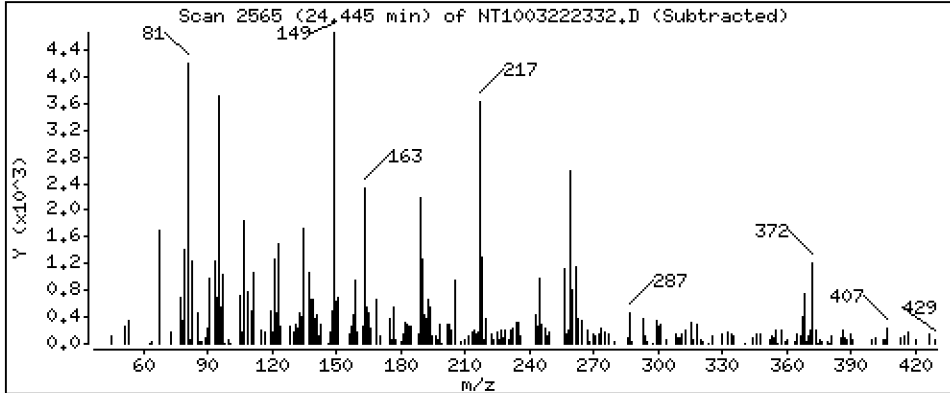
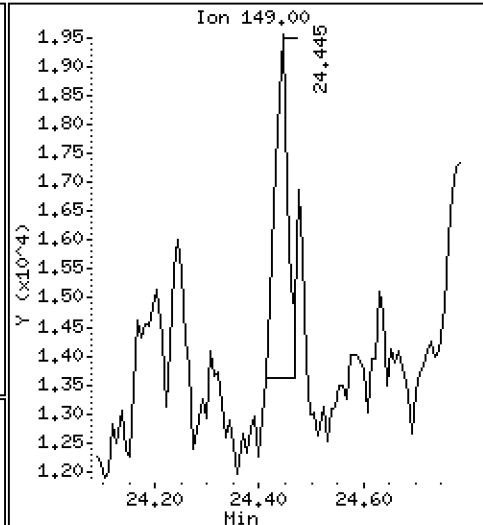
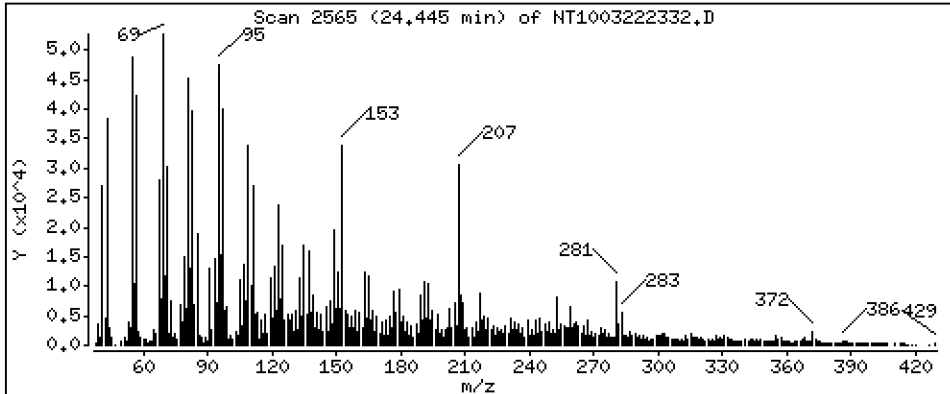
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 0,04571 ug/mL



Date : 23-MAR-2023 12:44

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-04RE1

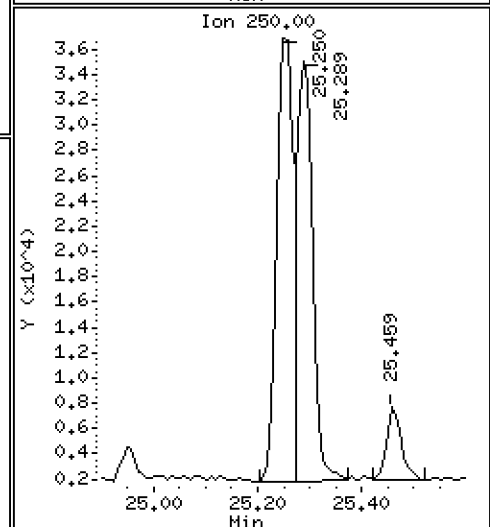
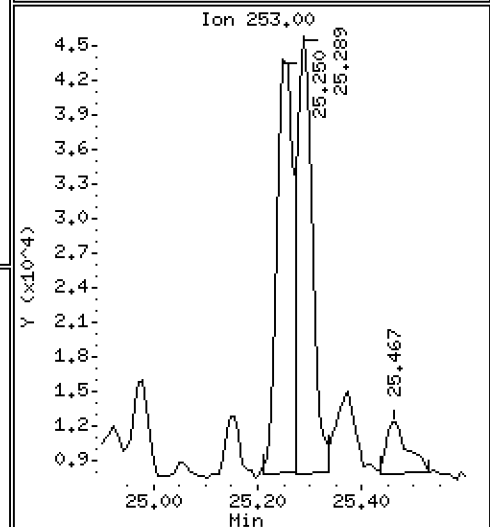
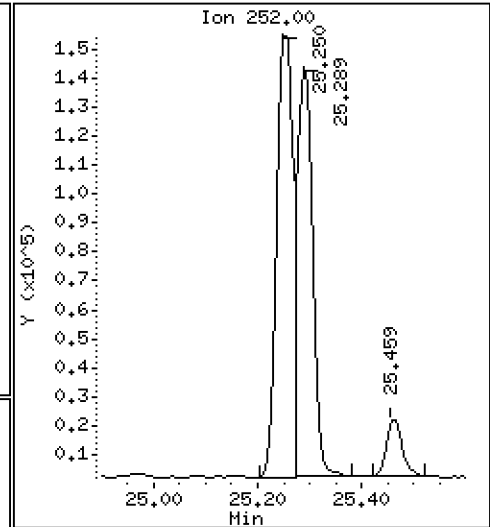
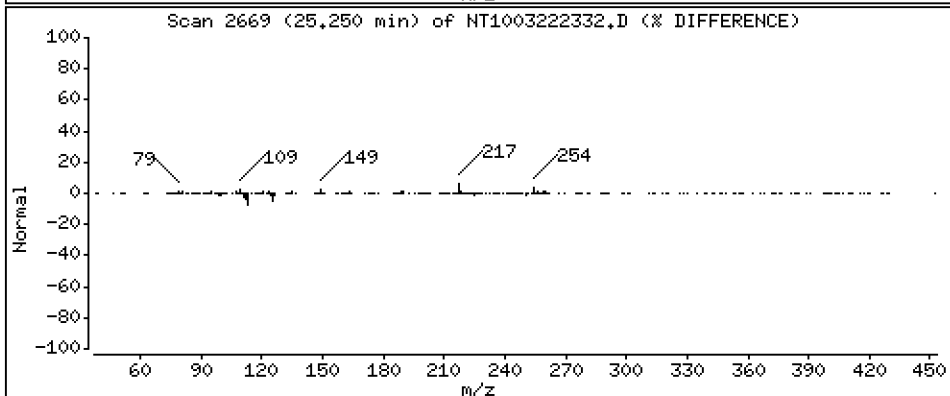
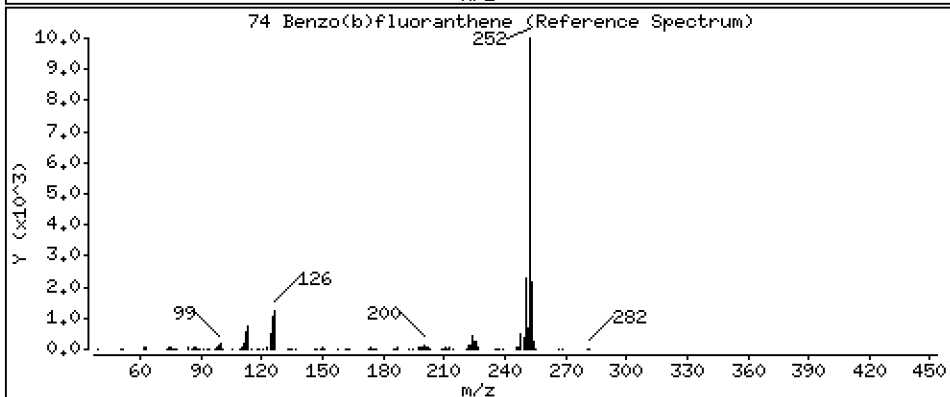
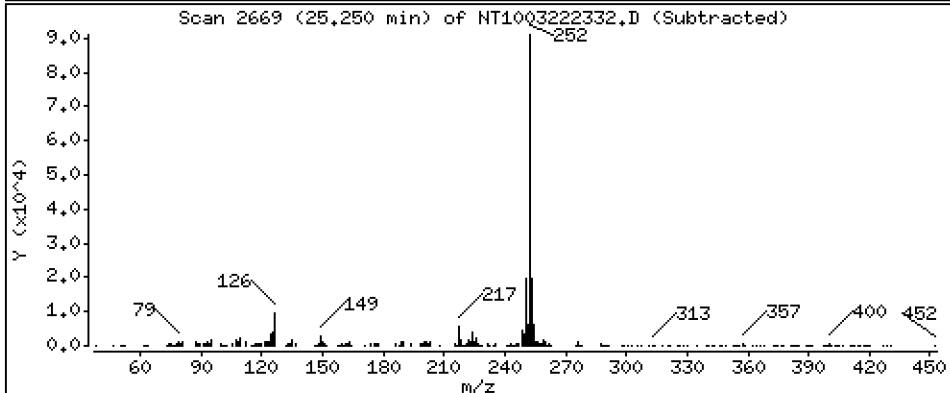
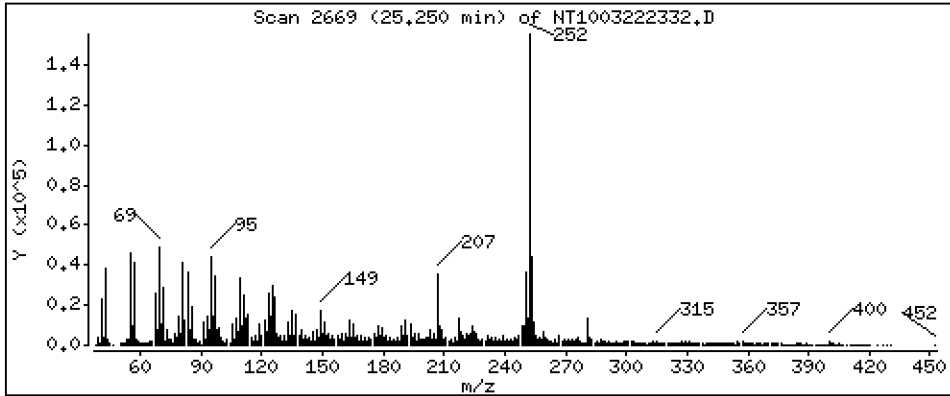
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 2,007 ug/mL



Date : 23-MAR-2023 12:44

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-04RE1

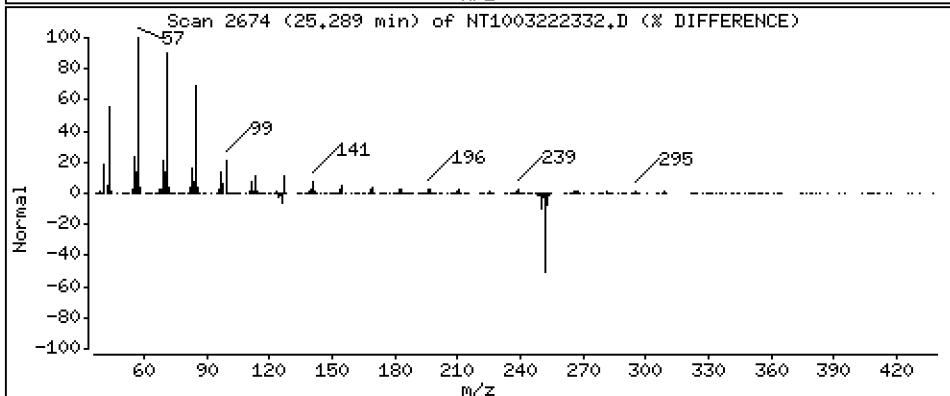
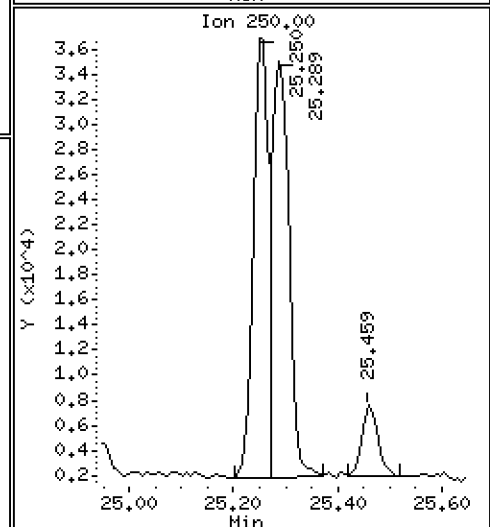
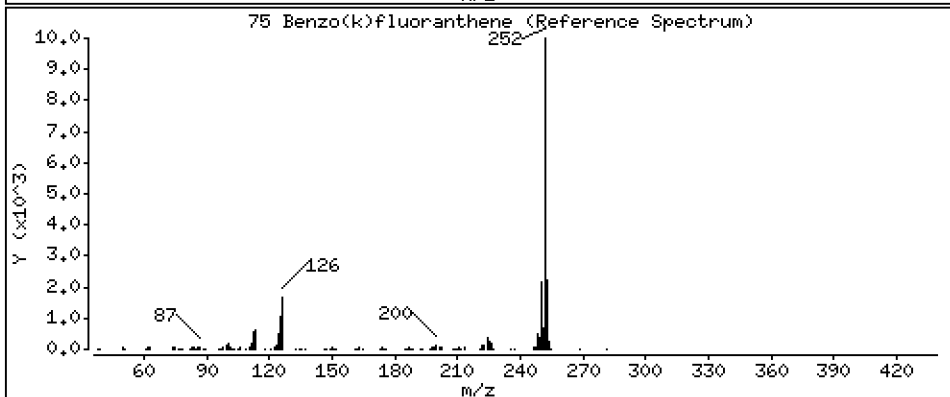
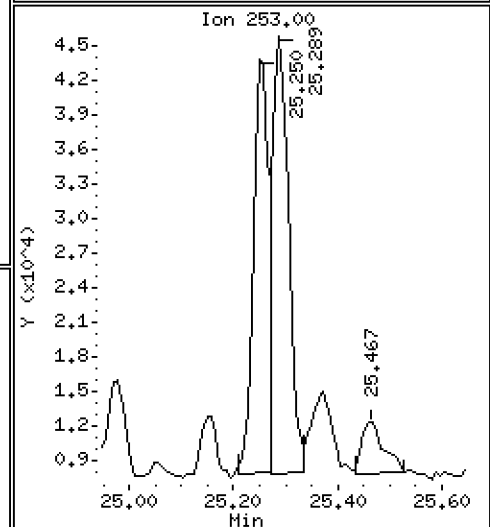
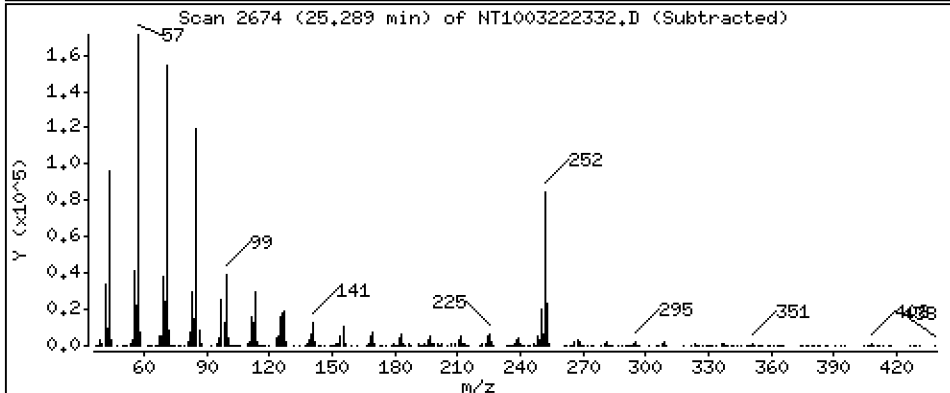
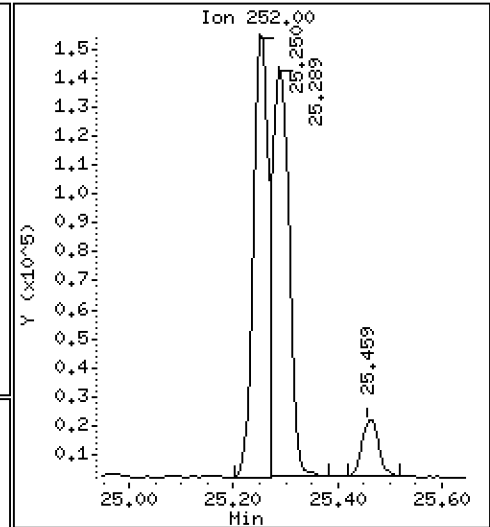
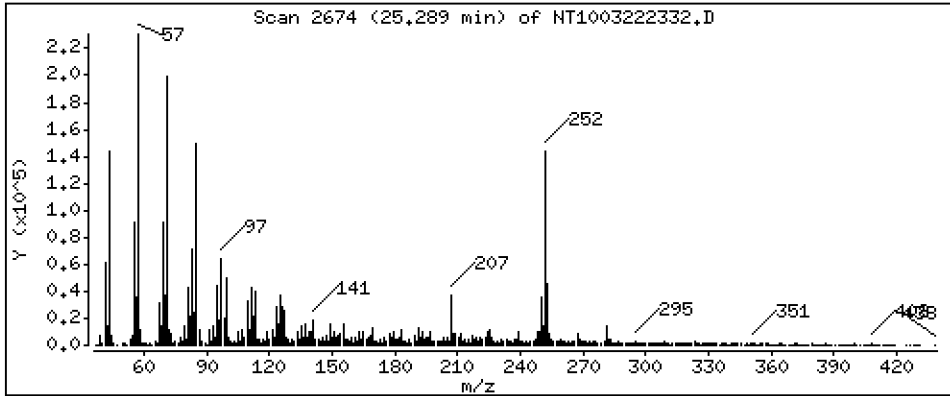
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 1,840 ug/mL



Date : 23-MAR-2023 12:44

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-04RE1

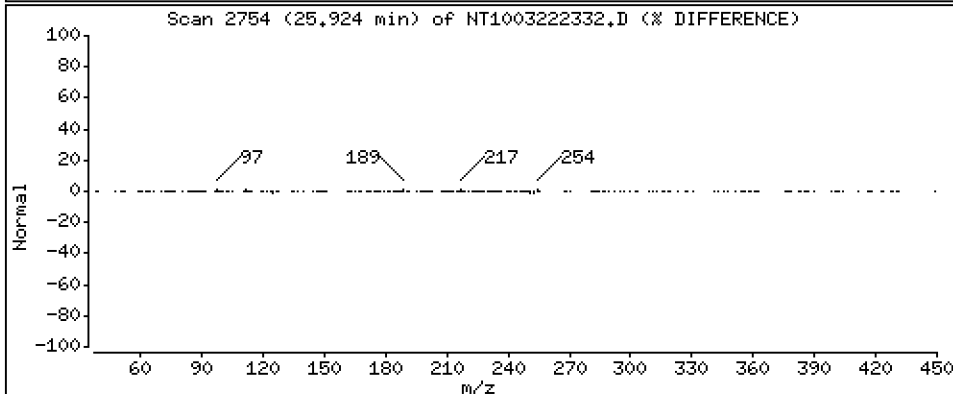
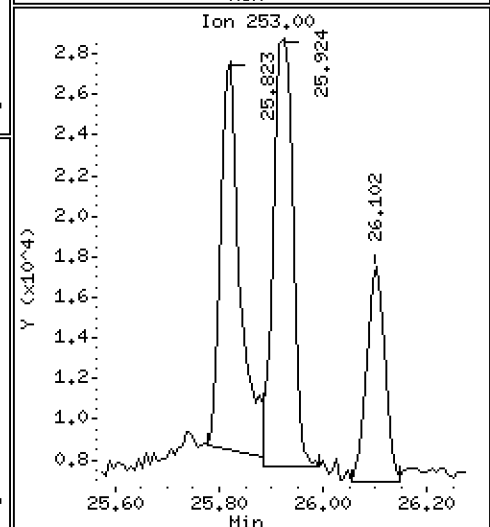
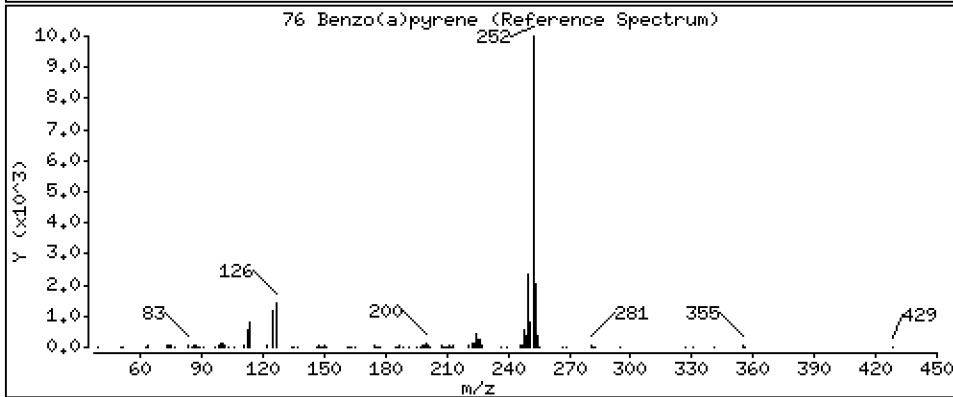
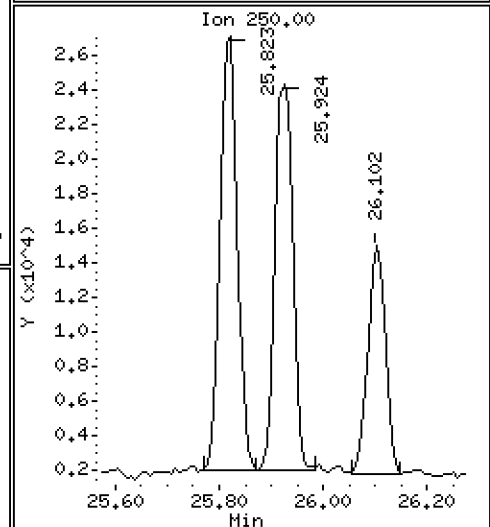
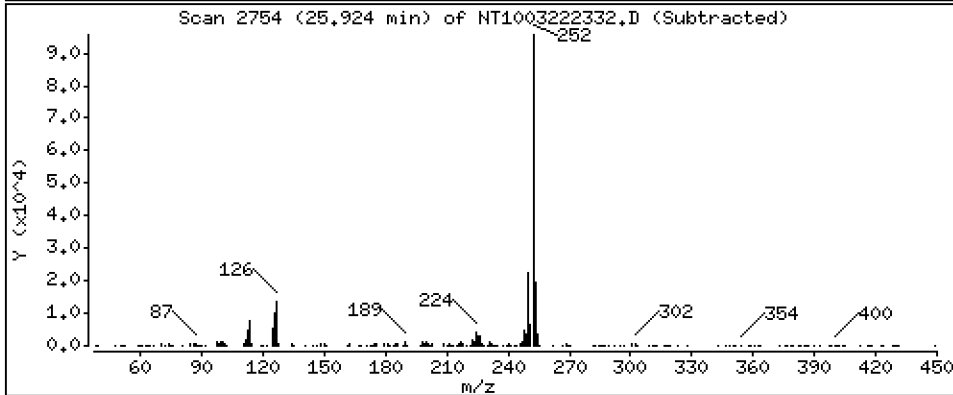
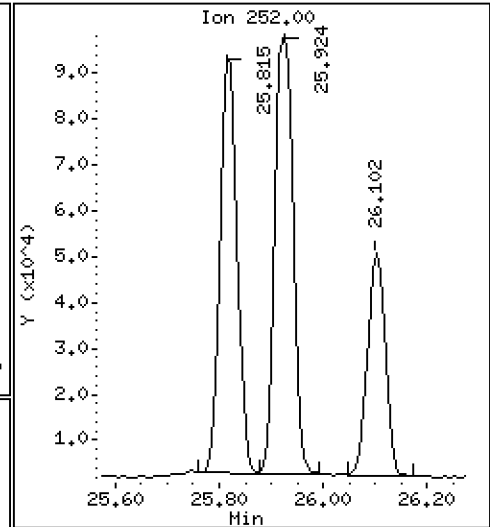
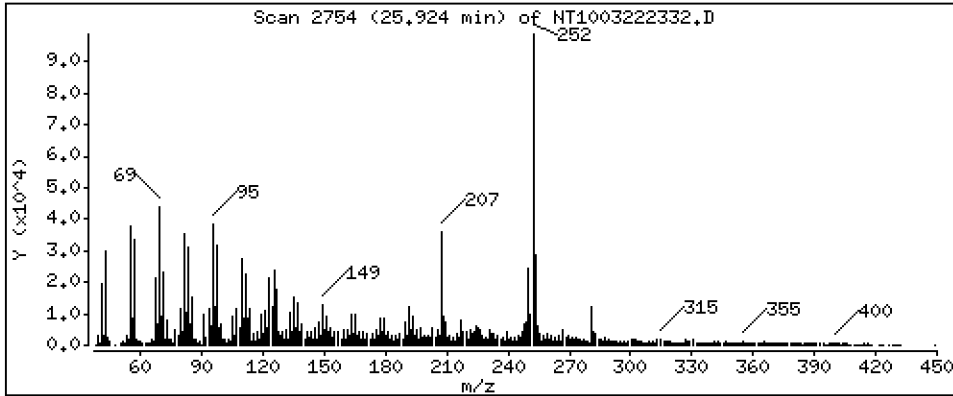
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 1,494 ug/mL



Date : 23-MAR-2023 12:44

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-04RE1

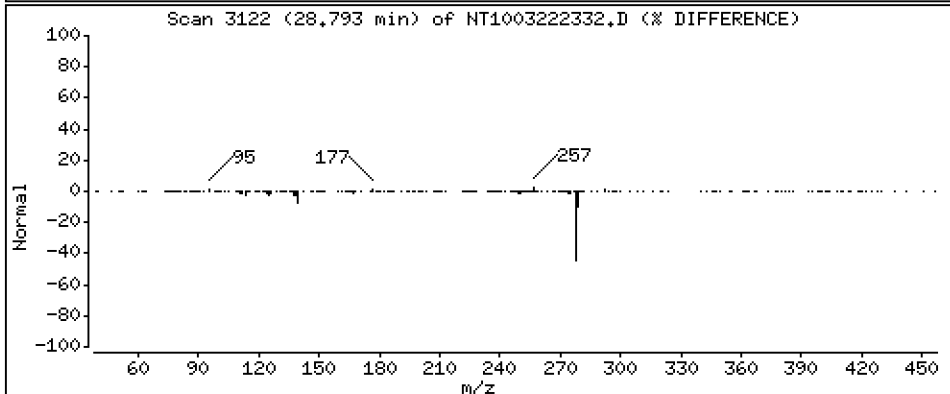
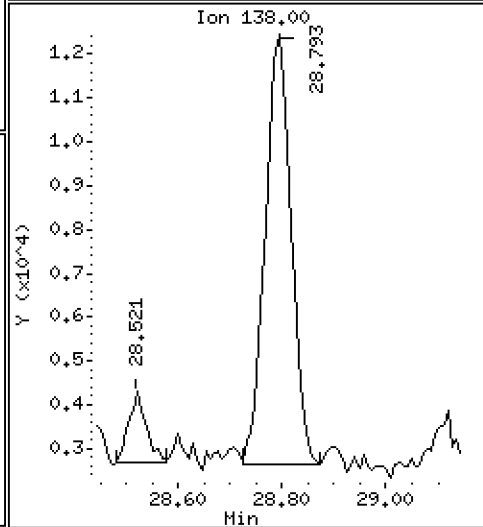
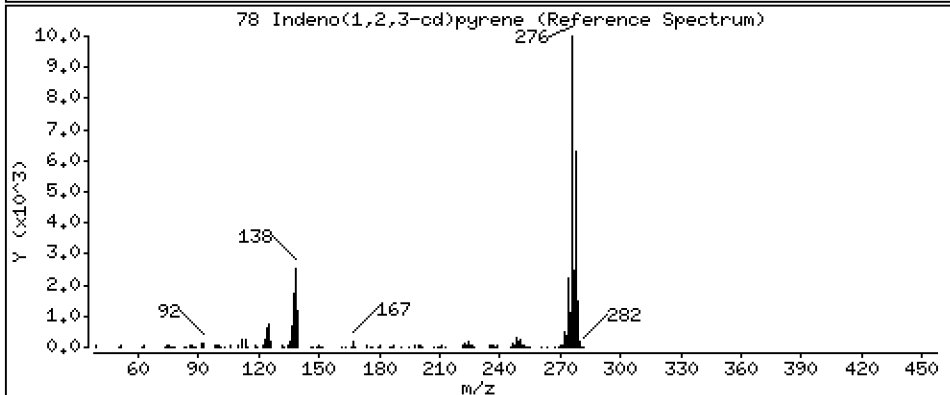
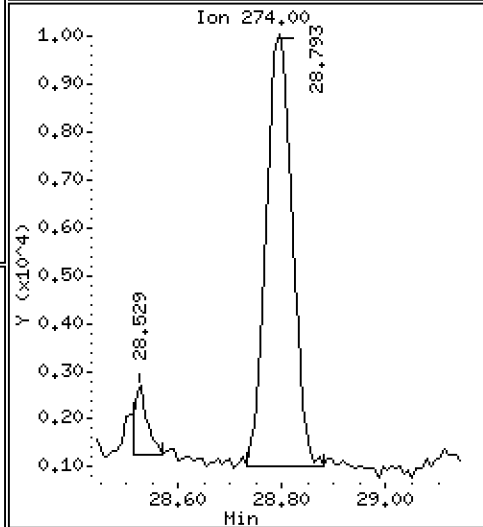
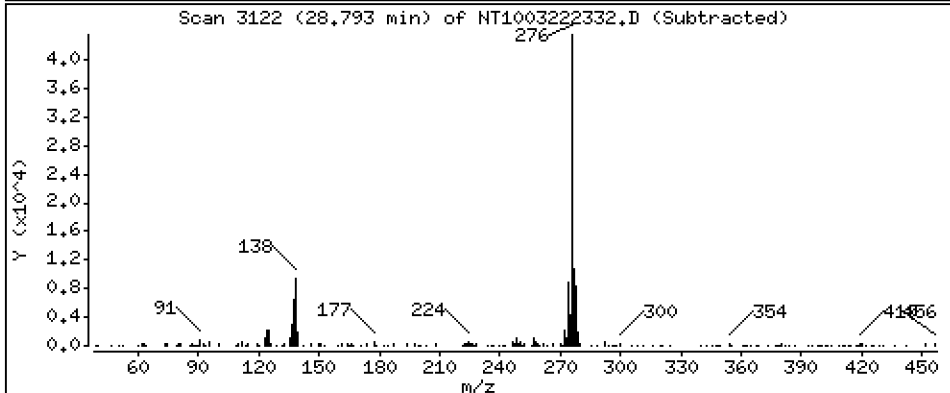
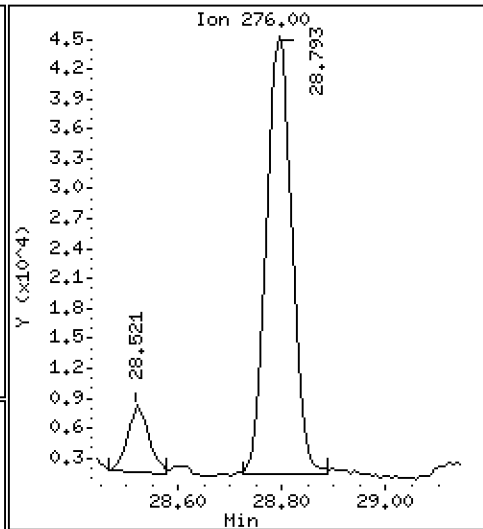
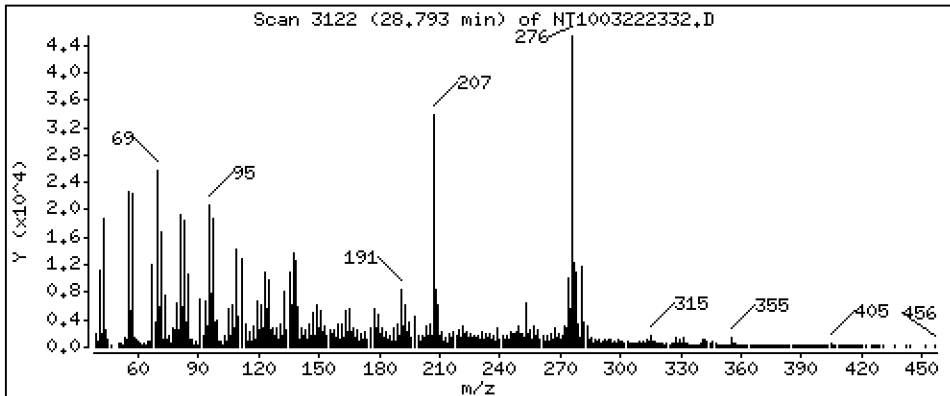
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 0,7724 ug/mL



Date : 23-MAR-2023 12:44

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-04RE1

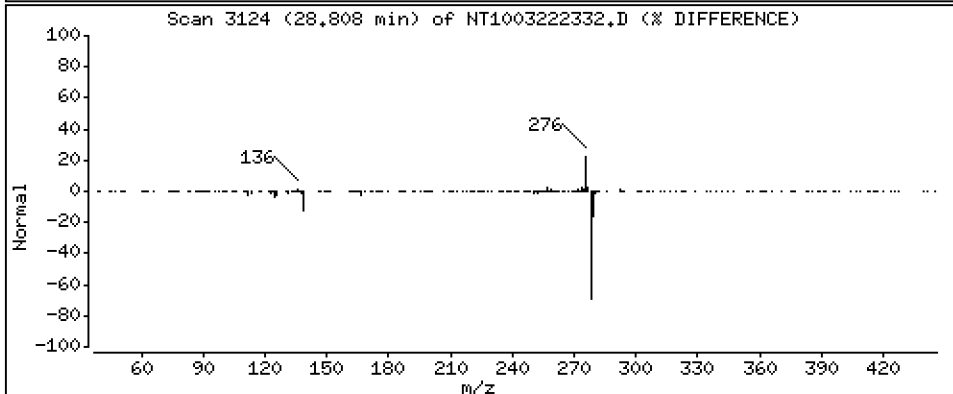
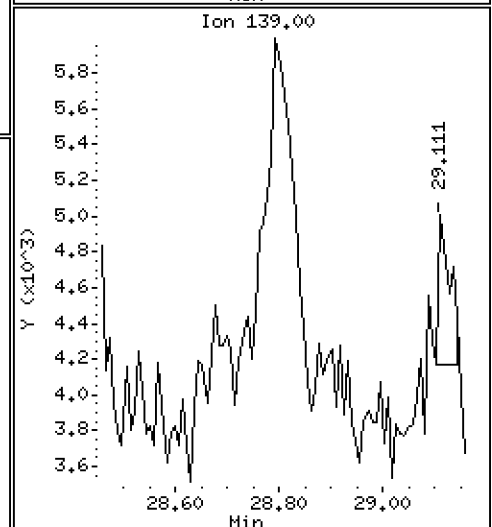
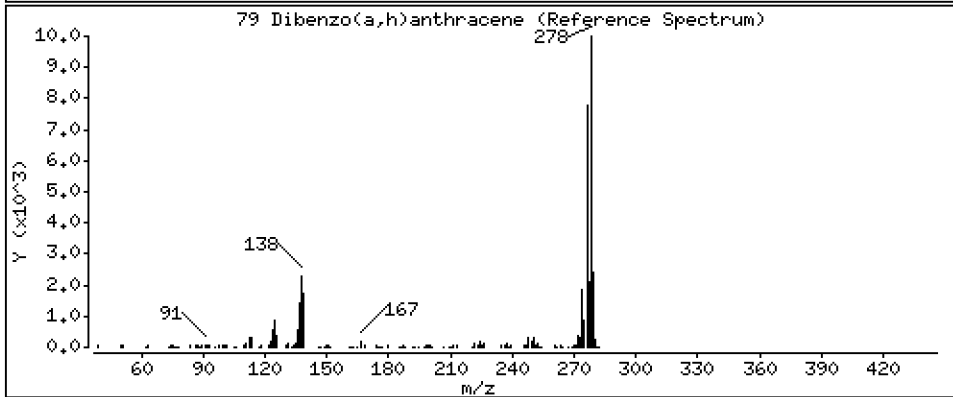
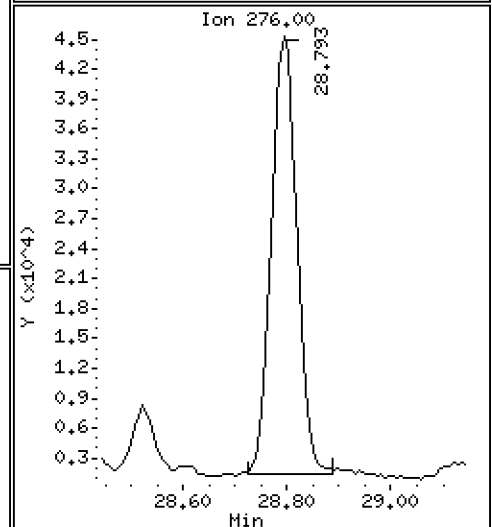
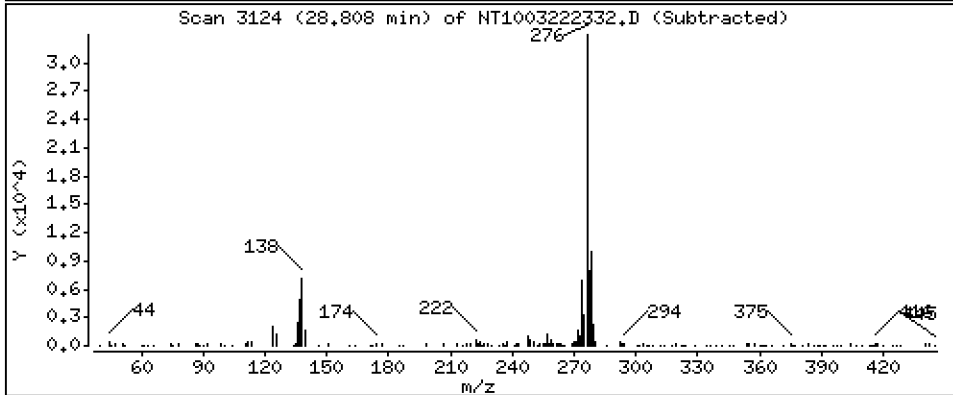
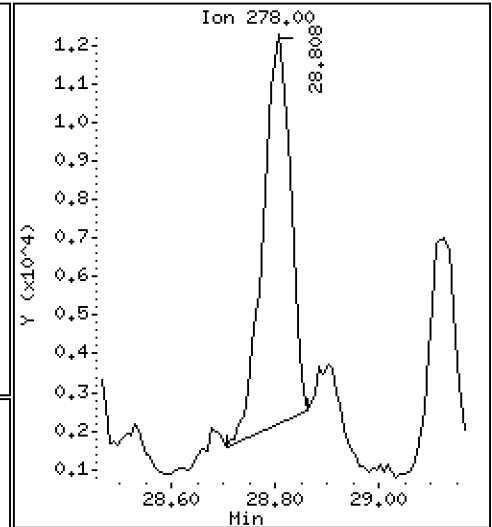
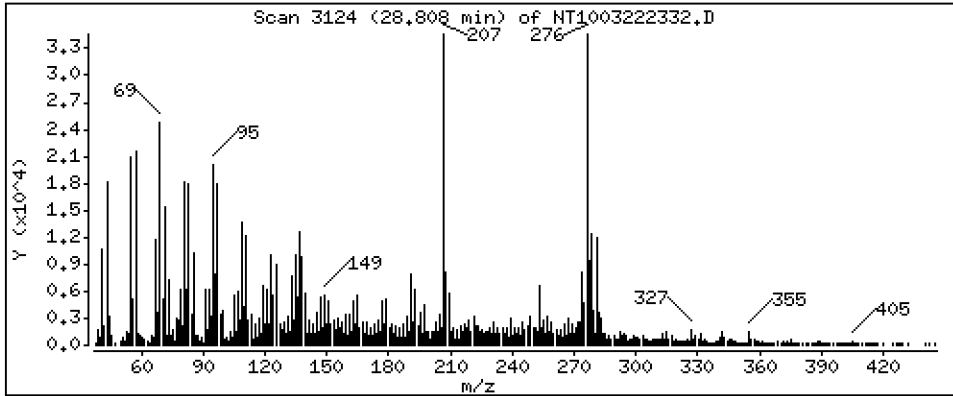
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 0,2342 ug/mL



Date : 23-MAR-2023 12:44

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-04RE1

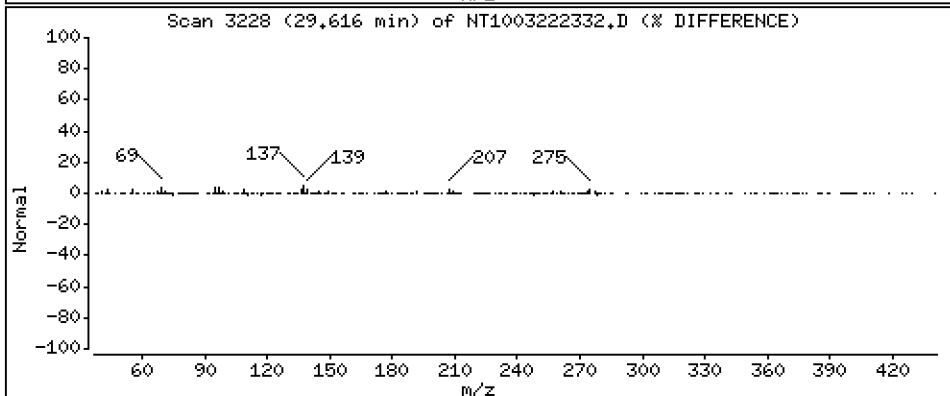
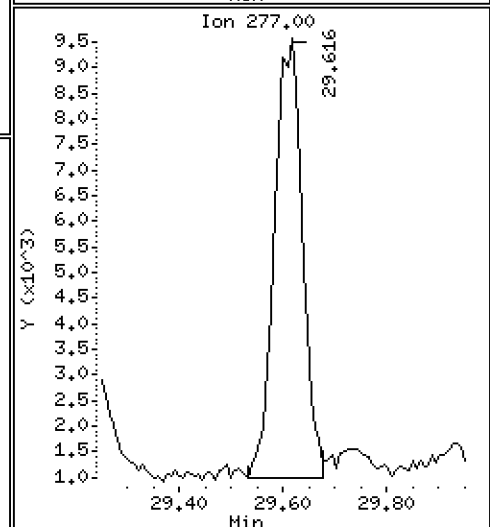
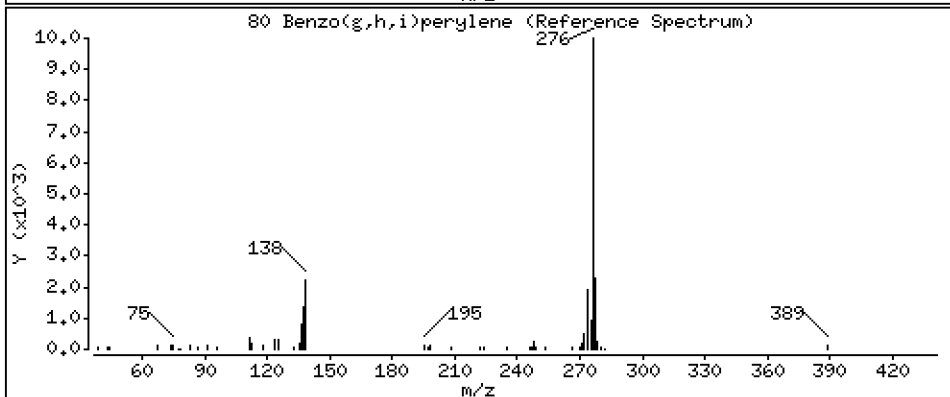
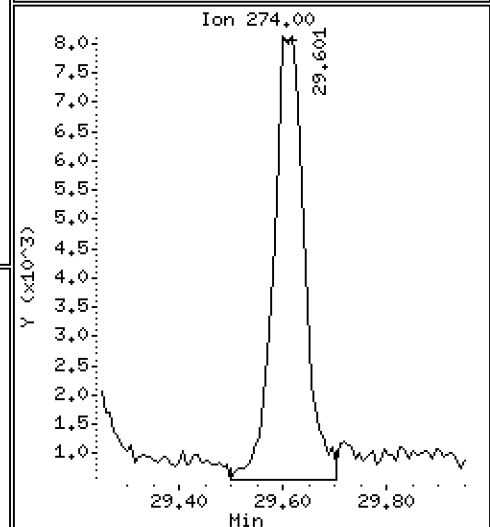
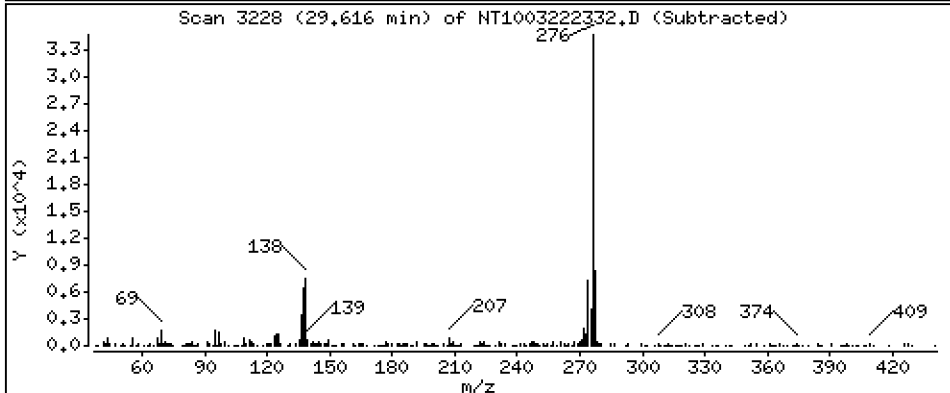
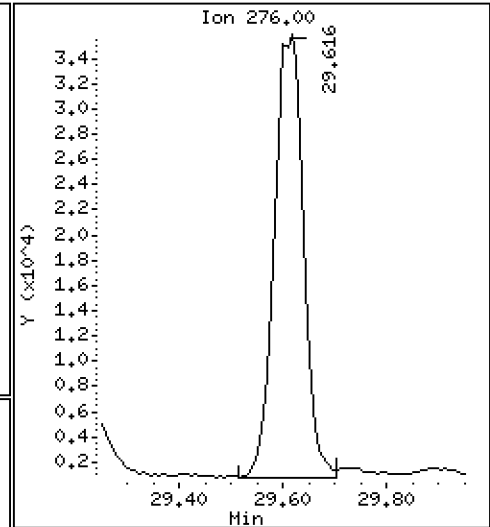
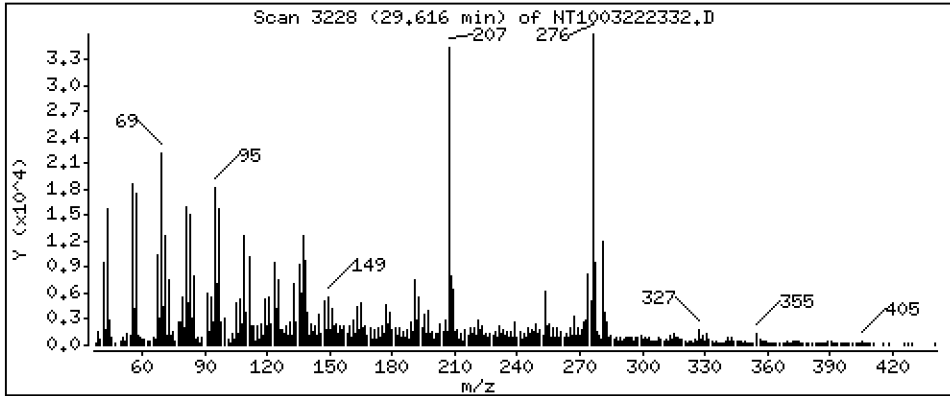
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 0,8183 ug/mL



Date : 23-MAR-2023 12:44

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-04RE1

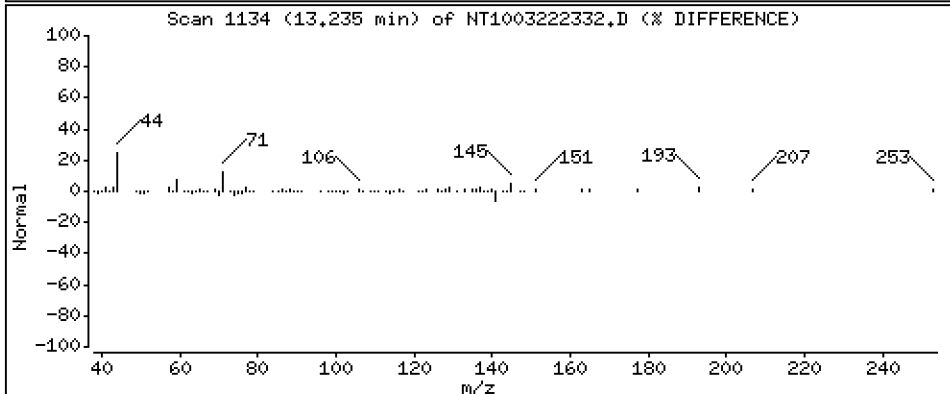
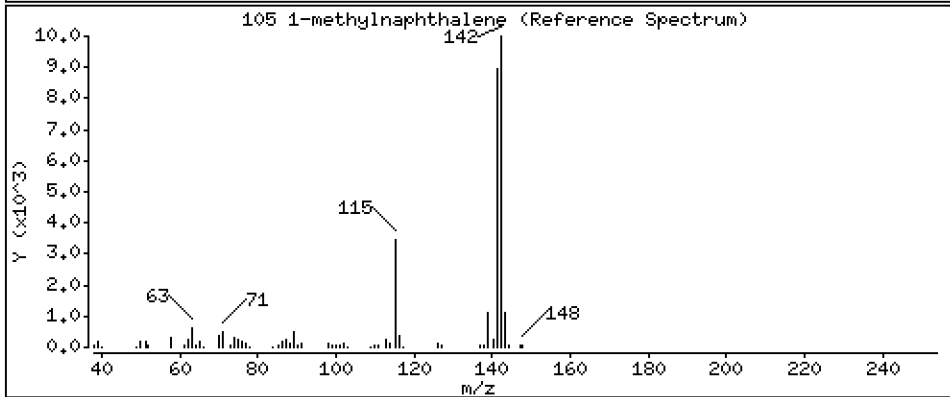
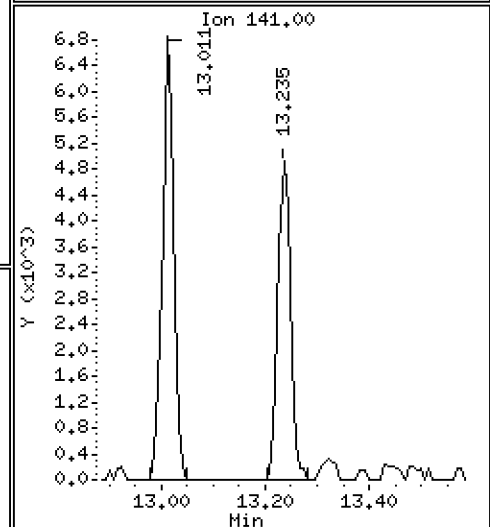
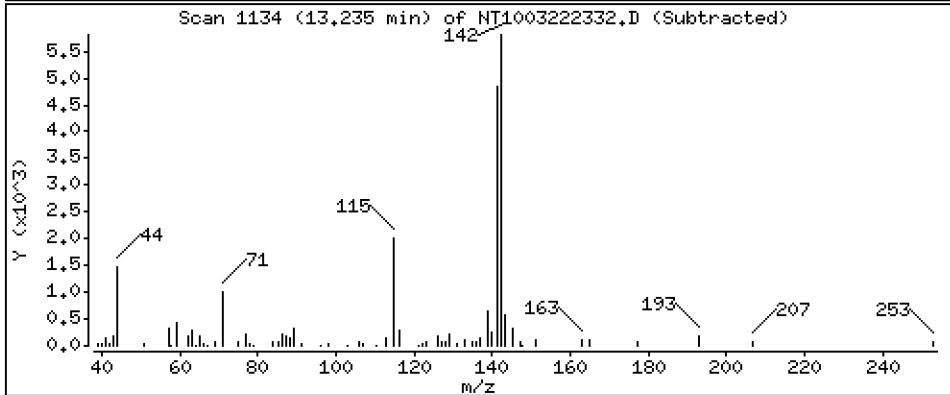
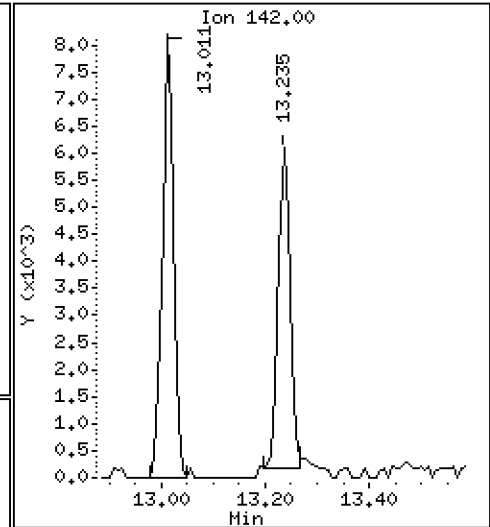
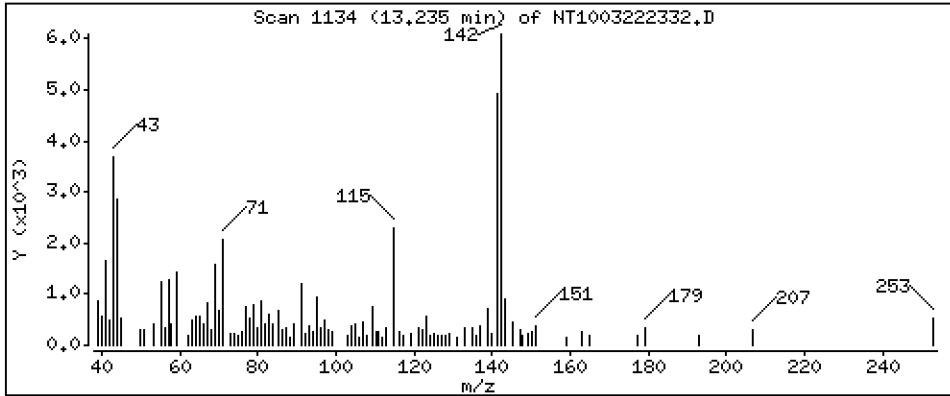
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 0,1028 ug/mL



Date : 23-MAR-2023 12:44

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-04RE1

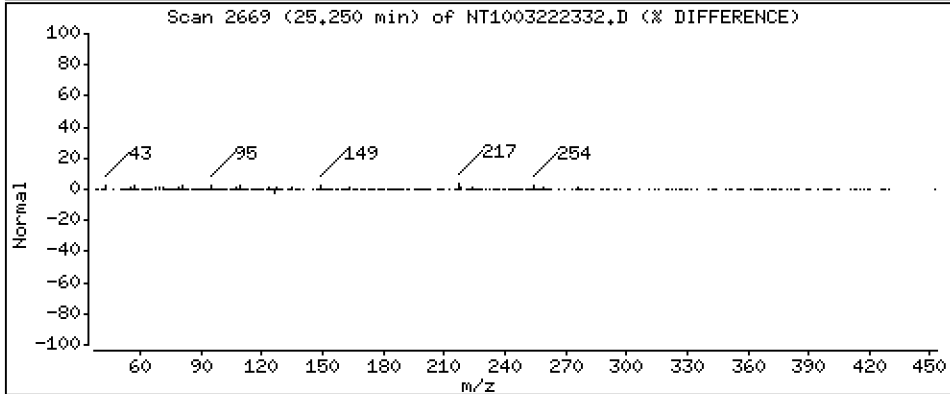
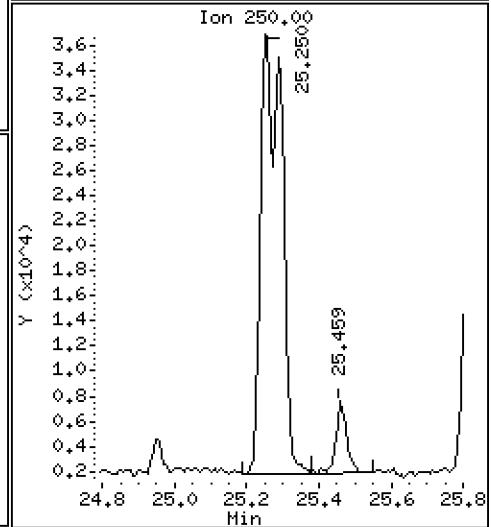
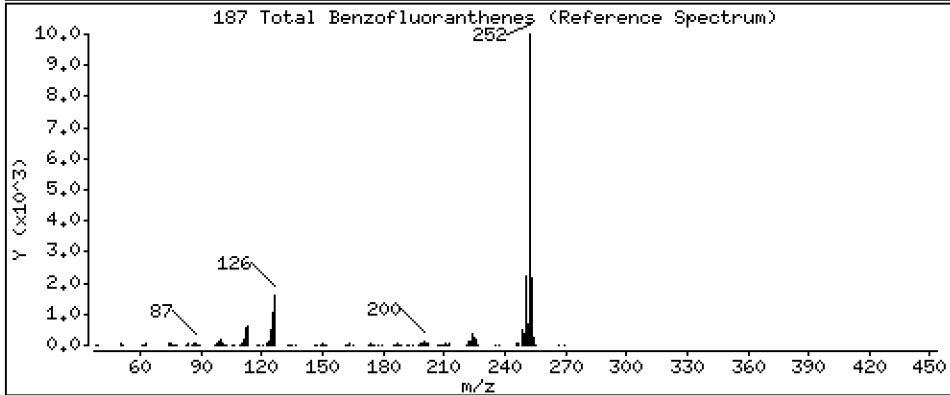
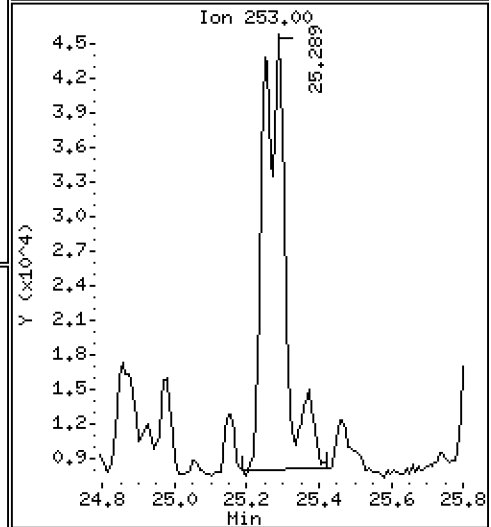
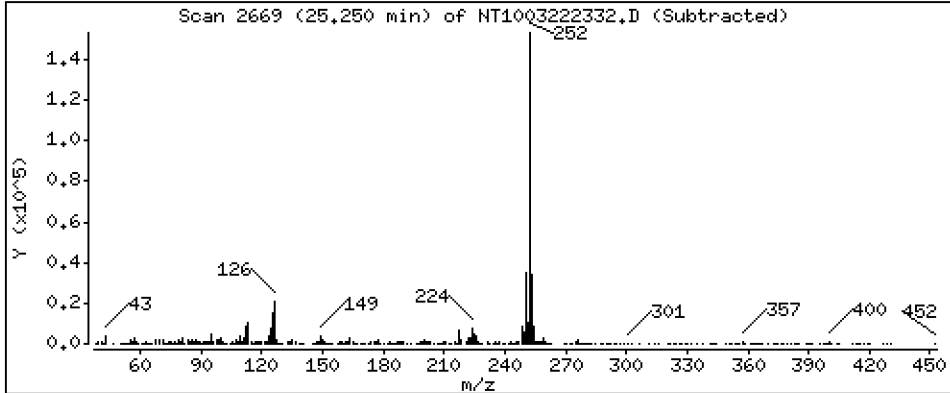
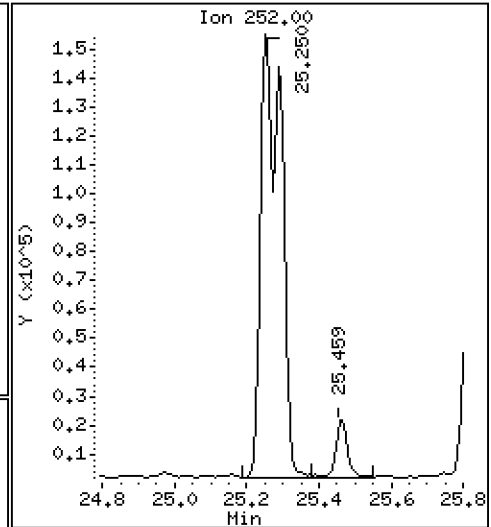
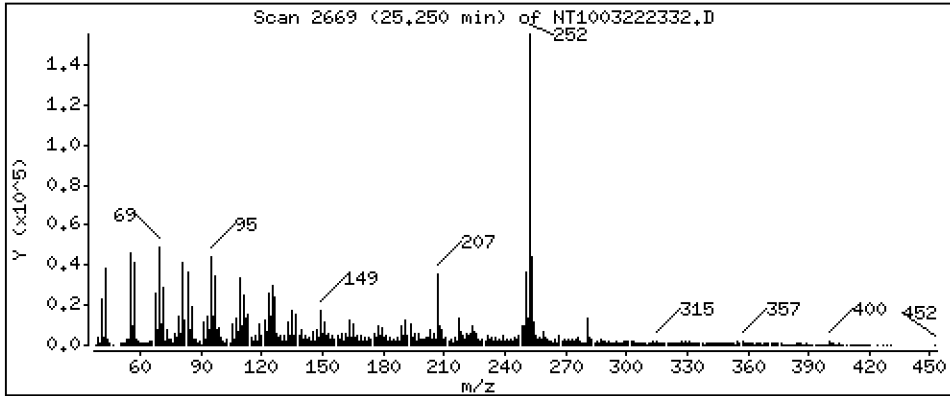
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 3,767 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230322.b\NT1003222332.D
 Lab Smp Id: 23A0180-04RE1
 Inj Date : 23-MAR-2023 12:44
 Operator : VTS
 Smp Info : 23A0180-04RE1
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt10.i\20230322.b\ABN.m
 Meth Date : 25-Mar-2023 10:11 van
 Cal Date : 16-MAR-2023 00:22
 Als bottle: 27
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: VANS-201906

Inst ID: nt10.i

Quant Type: ISTD
 Cal File: NT10031508.D

Compound Sublist: ICAL.sub

| Compounds | QUANT | SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|---------------------------------|-------|-----|------------------------|--------|---------|----------|----------------|------------|
| | | | | | | | ON-COLUMN | FINAL |
| | MASS | | | | | | (ug/mL) | (ug/mL) |
| \$ 1 2-Fluorophenol | 112 | | 6.866 | 6.851 | (0.756) | 238552 | 5.98662 | 5.987 |
| \$ 2 Phenol-d5 | 99 | | 8.458 | 8.450 | (0.931) | 317317 | 6.07025 | 6.070 |
| 3 Phenol | 94 | | 8.481 | 8.474 | (0.934) | 65840 | 1.21205 | 1.212 |
| \$ 5 2-Chlorophenol-d4 | 132 | | 8.728 | 8.721 | (0.961) | 290301 | 6.50340 | 6.503 |
| 4 Bis(2-Chloroethyl)ether | 93 | | Compound Not Detected. | | | | | |
| 6 2-Chlorophenol | 128 | | Compound Not Detected. | | | | | |
| 7 1,3-Dichlorobenzene | 146 | | Compound Not Detected. | | | | | |
| * 8 1,4-Dichlorobenzene-d4 | 152 | | 9.084 | 9.085 | (1.000) | 131766 | 4.00000 | |
| 9 1,4-Dichlorobenzene | 146 | | Compound Not Detected. | | | | | |
| \$ 10 1,2-Dichlorobenzene-d4 | 152 | | 9.449 | 9.441 | (1.040) | 126620 | 3.94981 | 3.950 |
| 12 1,2-Dichlorobenzene | 146 | | Compound Not Detected. | | | | | |
| 11 Benzyl alcohol | 108 | | 9.363 | 9.356 | (1.031) | 2598 | 0.10190 | 0.1019 |
| 14 2,2'-oxybis(1-Chloropropane) | 121 | | Compound Not Detected. | | | | | |
| 13 2-Methylphenol | 108 | | 9.596 | 9.589 | (1.056) | 496 | 0.01253 | 0.01253 |
| 17 Hexachloroethane | 117 | | Compound Not Detected. | | | | | |
| 16 N-Nitroso-di-n-propylamine | 70 | | Compound Not Detected. | | | | | |
| 15 4-Methylphenol | 108 | | 9.868 | 9.861 | (1.086) | 4240 | 0.10162 | 0.1016 |
| \$ 18 Nitrobenzene-d5 | 82 | | 10.179 | 10.179 | (0.880) | 200840 | 4.05880 | 4.059 |
| 19 Nitrobenzene | 77 | | Compound Not Detected. | | | | | |
| 20 Isophorone | 82 | | Compound Not Detected. | | | | | |
| 21 2-Nitrophenol | 139 | | Compound Not Detected. | | | | | |
| 22 2,4-Dimethylphenol | 107 | | Compound Not Detected. | | | | | |
| 23 Bis(2-Chloroethoxy)methane | 93 | | Compound Not Detected. | | | | | |
| 24 Benzoic acid | 105 | | 11.045 | 11.105 | (0.954) | 9884 | 0.39884 | 0.3988 (M) |
| 25 2,4-Dichlorophenol | 162 | | Compound Not Detected. | | | | | |
| 26 1,2,4-Trichlorobenzene | 180 | | Compound Not Detected. | | | | | |
| * 27 Naphthalene-d8 | 136 | | 11.572 | 11.572 | (1.000) | 490237 | 4.00000 | |
| 28 Naphthalene | 128 | | 11.618 | 11.618 | (1.004) | 15503 | 0.11937 | 0.1194 |
| 29 4-Chloroaniline | 127 | | Compound Not Detected. | | | | | |
| 30 Hexachlorobutadiene | 225 | | Compound Not Detected. | | | | | |
| 31 4-Chloro-3-methylphenol | 107 | | Compound Not Detected. | | | | | |
| 32 2-Methylnaphthalene | 142 | | 13.010 | 13.018 | (1.124) | 11983 | 0.12786 | 0.1279 |
| 33 Hexachlorocyclopentadiene | 237 | | Compound Not Detected. | | | | | |

| Compounds | QUANT | SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|-----------------------------------|-------|-----|--------|--------|---------|----------|----------------------|------------------|
| | | | | | | | ON-COLUMN (ug/mL) | FINAL (ug/mL) |
| 34 2,4,6-Trichlorophenol | 196 | | | | | | | |
| 35 2,4,5-Trichlorophenol | 196 | | | | | | | |
| \$ 36 2-Fluorobiphenyl | 172 | | 13.800 | 13.800 | (0.908) | 478104 | 4.38198 | 4.382 |
| 37 2-Chloronaphthalene | 162 | | | | | | | |
| 38 2-Nitroaniline | 65 | | | | | | | |
| 39 Dimethylphthalate | 163 | | 14.705 | 14.706 | (0.967) | 9983 | 0.11141 | 0.1114 |
| 40 Acenaphthylene | 152 | | 14.883 | 14.884 | (0.979) | 14193 | 0.10310 | 0.1031 |
| 41 2,6-Dinitrotoluene | 165 | | | | | | | |
| * 42 Acenaphthene-d10 | 164 | | 15.201 | 15.201 | (1.000) | 275820 | 4.00000 | |
| 43 3-Nitroaniline | 138 | | | | | | | |
| 44 Acenaphthene | 153 | | 15.262 | 15.263 | (1.004) | 6415 | 0.07543 | 0.07543 |
| 45 2,4-Dinitrophenol | 184 | | | | | | | |
| 46 Dibenzofuran | 168 | | 15.587 | 15.595 | (1.025) | 12025 | 0.09588 | 0.09588 |
| 47 4-Nitrophenol | 109 | | | | | | | |
| 48 2,4-Dinitrotoluene | 165 | | | | | | | |
| 50 Diethylphthalate | 149 | | 16.167 | 16.175 | (1.064) | 25295 | 0.28773 | 0.2877 |
| 49 Fluorene | 166 | | 16.306 | 16.314 | (1.073) | 10934 | 0.11082 | 0.1108 |
| 51 4-Chlorophenyl-phenylether | 204 | | | | | | | |
| 52 4-Nitroaniline | 138 | | | | | | | |
| 53 4,6-Dinitro-2-methylphenol | 198 | | | | | | | |
| 54 N-Nitrosodiphenylamine | 169 | | | | | | | |
| \$ 55 2,4,6-Tribromophenol | 330 | | 16.846 | 16.846 | (1.108) | 108032 | 8.41754 | 8.418 |
| 56 4-Bromophenyl-phenylether | 248 | | | | | | | |
| 57 Hexachlorobenzene | 284 | | | | | | | |
| 58 Pentachlorophenol | 266 | | | | | | | |
| * 59 Phenanthrene-d10 | 188 | | 18.252 | 18.260 | (1.000) | 521708 | 4.00000 | |
| 60 Phenanthrene | 178 | | 18.307 | 18.307 | (1.003) | 115576 | 0.81244 | 0.8124 |
| 61 Anthracene | 178 | | 18.399 | 18.400 | (1.008) | 51006 | 0.37377 | 0.3738 |
| 62 Carbazole | 167 | | 18.732 | 18.732 | (1.026) | 20629 | 0.16870 | 0.1687 |
| 63 Di-n-butylphthalate | 149 | | 19.544 | 19.545 | (1.071) | 15260 | 0.09281 | 0.09281 |
| 64 Fluoranthene | 202 | | 20.751 | 20.713 | (0.889) | 298391 | 1.51472 | 1.515 |
| 65 Pyrene | 202 | | 21.154 | 21.139 | (0.906) | 499888 | 2.47370 | 2.474 |
| \$ 66 Terphenyl-d14 | 244 | | 21.432 | 21.433 | (0.918) | 635037 | 4.18452 | 4.185 |
| 67 Butylbenzylphthalate | 149 | | 22.369 | 22.377 | (0.958) | 14263 | 0.20097 | 0.2010 |
| 68 Benzo(a)anthracene | 228 | | 23.322 | 23.322 | (0.999) | 168896 | 0.97602 | 0.9760 |
| * 69 Chrysene-d12 | 240 | | 23.353 | 23.353 | (1.000) | 490258 | 4.00000 | |
| 70 3,3'-Dichlorobenzidine | 252 | | | | | | | |
| 71 Chrysene | 228 | | 23.399 | 23.399 | (1.002) | 245735 | 1.45351 | 1.454 |
| 72 bis(2-Ethylhexyl)phthalate | 149 | | 23.415 | 23.415 | (0.959) | 151091 | 1.30424 | 1.304 |
| * 134 Di-n-octylphthalate-d4 | 153 | | 24.421 | 24.421 | (1.000) | 791503 | 4.00000 | |
| 73 Di-n-octylphthalate | 149 | | 24.444 | 24.437 | (1.001) | 9467 | 0.04571 | 0.04571 |
| 74 Benzo(b)fluoranthene | 252 | | 25.249 | 25.250 | (0.969) | 338272 | 2.00651 | 2.007 |
| 75 Benzo(k)fluoranthene | 252 | | 25.288 | 25.296 | (0.971) | 315003 | 1.84012 | 1.840 |
| 76 Benzo(a)pyrene | 252 | | 25.923 | 25.923 | (0.995) | 225225 | 1.49426 | 1.494 |
| * 77 Perylene-d12 | 264 | | 26.047 | 26.040 | (1.000) | 520088 | 4.00000 | |
| 78 Indeno(1,2,3-cd)pyrene | 276 | | 28.792 | 28.793 | (1.105) | 148118 | 0.77241 | 0.7724 |
| 79 Dibenzo(a,h)anthracene | 278 | | 28.808 | 28.816 | (1.106) | 37279 | 0.23416 | 0.2342 (M) |
| 80 Benzo(g,h,i)perylene | 276 | | 29.616 | 29.601 | (1.137) | 135800 | 0.81831 | 0.8183 |
| 90 N-Nitrosodimethylamine | 74 | | | | | | | |
| 91 Aniline | 93 | | | | | | | |
| 93 Benzidine | 184 | | | | | | | |
| 103 Pyridine | 79 | | | | | | | |
| 105 1-methylnaphthalene | 142 | | 13.235 | 13.235 | (1.144) | 8825 | 0.10277 | 0.1028 |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77 | | | | | | | |

| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | | |
|-------------------------------|-----------|------------------------|--------|---------|----------|----------------------|------------------|--|
| | | | | | | ON-COLUMN (ug/mL) | FINAL (ug/mL) | |
| 187 Total Benzofluoranthenes | 252 | 25.249 | 25.296 | (0.969) | 613192 | 3.76712 | 3.767 | |
| 120 2,3,4,6-Tetrachlorophenol | 232 | Compound Not Detected. | | | | | | |

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 23-MAR-2023
 Lab File ID: NT1003222332.D Calibration Time: 03:15
 Lab Smp Id: 23A0180-04RE1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt10.i\20230322.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 137603 | 68802 | 275206 | 131766 | -4.24 |
| 27 Naphthalene-d8 | 494588 | 247294 | 989176 | 490237 | -0.88 |
| 42 Acenaphthene-d10 | 278674 | 139337 | 557348 | 275820 | -1.02 |
| 59 Phenanthrene-d10 | 509229 | 254615 | 1018458 | 521708 | 2.45 |
| 69 Chrysene-d12 | 462271 | 231136 | 924542 | 490258 | 6.05 |
| 134 Di-n-octylphthala | 782572 | 391286 | 1565144 | 791503 | 1.14 |
| 77 Perylene-d12 | 551153 | 275577 | 1102306 | 520088 | -5.64 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 9.09 | 8.59 | 9.59 | 9.08 | -0.00 |
| 27 Naphthalene-d8 | 11.57 | 11.07 | 12.07 | 11.57 | -0.00 |
| 42 Acenaphthene-d10 | 15.20 | 14.70 | 15.70 | 15.20 | -0.00 |
| 59 Phenanthrene-d10 | 18.26 | 17.76 | 18.76 | 18.25 | -0.04 |
| 69 Chrysene-d12 | 23.35 | 22.85 | 23.85 | 23.35 | -0.00 |
| 134 Di-n-octylphthala | 24.42 | 23.92 | 24.92 | 24.42 | -0.00 |
| 77 Perylene-d12 | 26.04 | 25.54 | 26.54 | 26.05 | 0.03 |

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

REVIEW SUMMARY FOR FILE - NT1003222332.D

Lab ID: 23A0180-04RE1
nt10.i, 20230322.b\ABN.m, 23-MAR-2023 12:44

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT | CCV RRT | DELTA | COMPOUND |
|-------|---------|---------|--------------|
| 0.954 | 0.960 | -0.0051 | Benzoic acid |

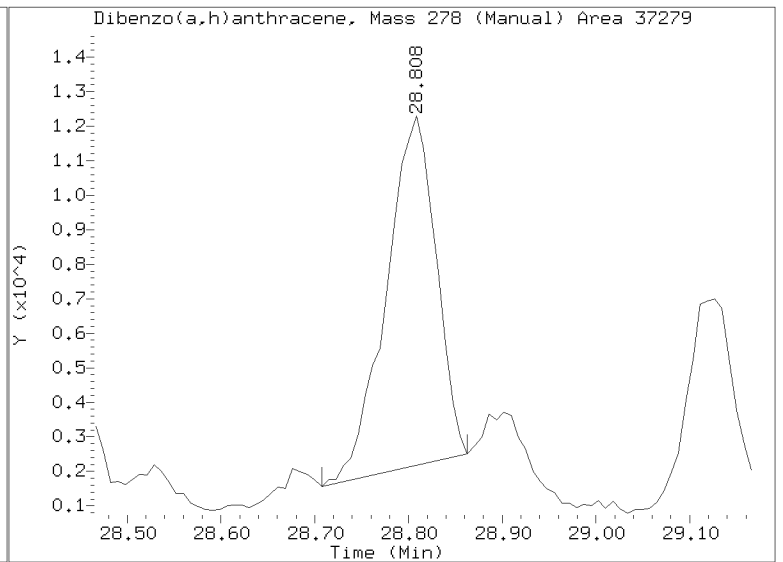
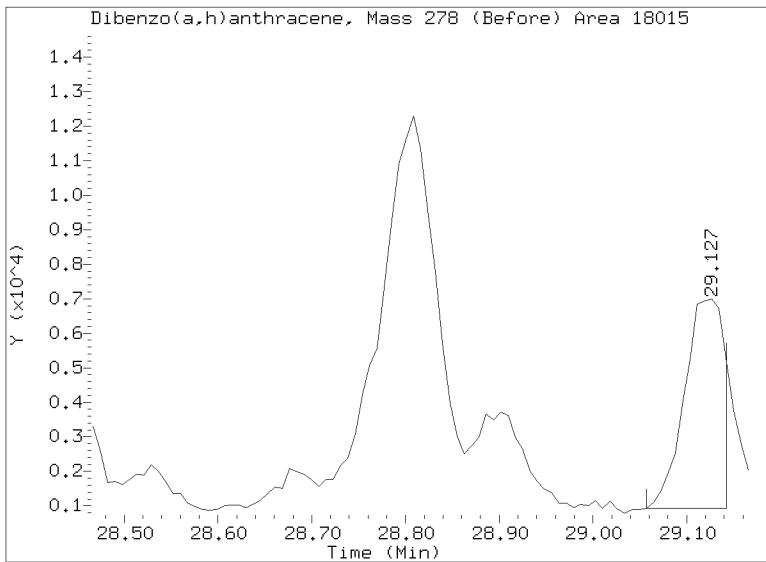
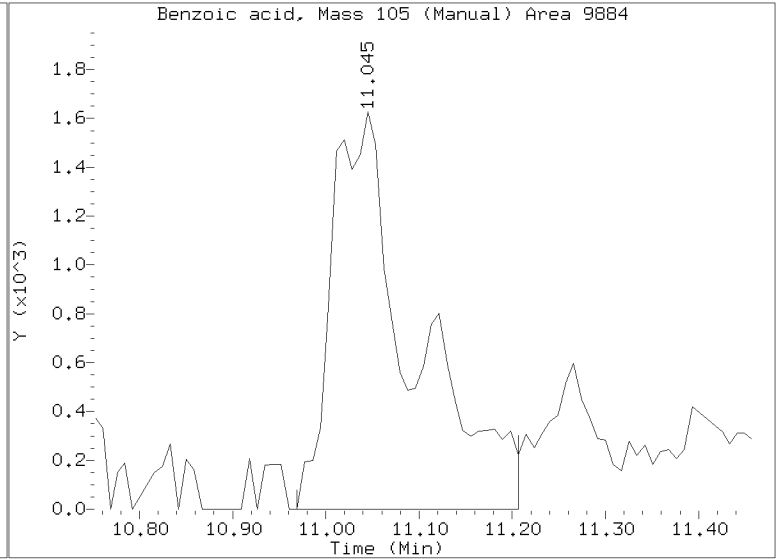
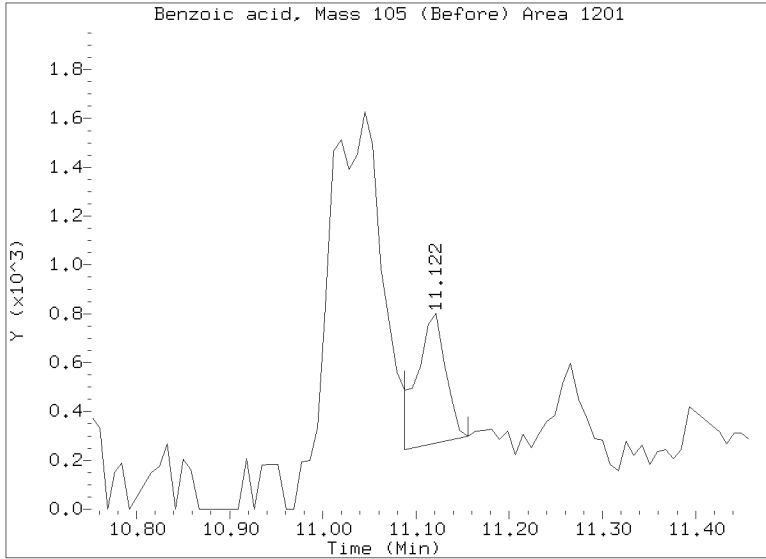
RRT check based on Ccal File: NT1003222317.D

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

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230322.b/NT1003222332.D
Injection Date: 23-MAR-2023 12:44
Lab ID:23A0180-04RE1 Client ID:
Report Date: 03/25/2023 10:17





Batch: BLA0557

Prepared using: EPA 3546 (Microwave)

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

WO Comments

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

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

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

Batch QC

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

+1g DI WATER

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

Client ID verified By

Date

Preparation Reviewed By

Date

Extraction Date and Time



WO Comments

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

Prep Steps

Reagents Used

Surrogates & Spike Standards Used

| Microwave | Station/Reagent | Standard ID | Type | Vial ID / Standard ID | Vol uL | Analyst | Witness |
|--|--------------------------------|-------------|---------------------------|-----------------------|--------|---------|---------|
| 910 2 3 R 1/25/23 Analyst/Date | Microwave | | Surrogate | A K010466 | 50µL | | |
| | Analyst: RKT Date: 1/25/23 | | 100/150µg/mL | Exp Date: 5/19/23 | | R | CT |
| Pre-GPC KD 100°C Exchange to Hexane (add 10 mL to KD) 0 2 4 5 6 TWC 1/31/23 Analyst/Date | Anhydrous Sodium Sulfate | L000953 | Full List Spike (Freezer) | 7 K011369 (V) | 50µL | R | CT |
| | 1:1 Methylene Chloride/Acetone | L000281 | 100µg/mL | Exp Date: 8/31/23 | | | |
| | Methylene Chloride | L000828 | Base Spike | 56 K011369 (V) | 50µL | R | CT |
| Pre-GPC KD Analyst: TWC Date: 1/31/23 | Pre-Deactivated Glass Wool | L000852 | 200µg/mL | Exp Date: 4/19/23 | | | |
| | Pre-Deactivated Glass Wool | N/A | Acid Spike | 38 K011369 (V) | 50µL | R | CT |
| TurboVap Pre GPC 1 2 3 4 5 LJ 1/31/23 Analyst/Date | Anhydrous Sodium Sulfate | N/A | 100/200µg/mL | Exp Date: 4/19/23 | | | |
| | Methylene Chloride | K011573 | | | | | |
| | Hexane | L000808 | | | | | |
| Post GPC KD 80-85°C 0 2 4 5 6 LJ 2/3/23 Analyst/Date | GPC Filter Prep | | | | | | |
| | Analyst: LJ Date: 1/31/23 | | | | | | |
| TurboVap 1 2 3 4 5 NR's 2/5/23 Analyst/Date | Methylene Chloride | L000808 | | | | | |
| | GPC | | | | | | |
| Water Wash NR's 2/5/23 Analyst/Date | Analyst: TWC Date: 2/1/23 | | | | | | |
| | Methylene Chloride | L000808 | | | | | |
| TurboVap 1 2 3 4 5 NR's 2/5/23 Analyst/Date | GPC Calibration File | CLA0166 | | | | | |
| | Post GPC KD | | | | | | |
| Water Wash NR's 2/5/23 Analyst/Date | Analyst: LJ Date: 2/3/23 | | | | | | |
| | Methylene Chloride | L000808 | | | | | |
| Water Wash NR's 2/5/23 Analyst/Date | Vialing | | | | | | |
| | Analyst: NK's Date: 2/5/23 | | | | | | |
| | Methylene Chloride | L000808 | | | | | |

MANUALLY ENTER EXPIRATION DATES!

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

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



Batch: BLA0557

Prepared using: EPA 3546 (Microwave)

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

WO Comments

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

Prep Instructions

SPECIAL INSTRUCTIONS:

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

A. Need Total Solids Y / N

B. Archive/Freeze Y / N



Batch: BLA0557

Prepared using: EPA 3546 (Microwave)

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

Matrix: Solid

Date Prepared: 1/25/23

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

WO Comments

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

The following standards may be missing from this batch!

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



Extraction Parameter: SVOA Extraction Batch BLA0478

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

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



Extraction Parameter: SVOA Extraction Batch BLA0557

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

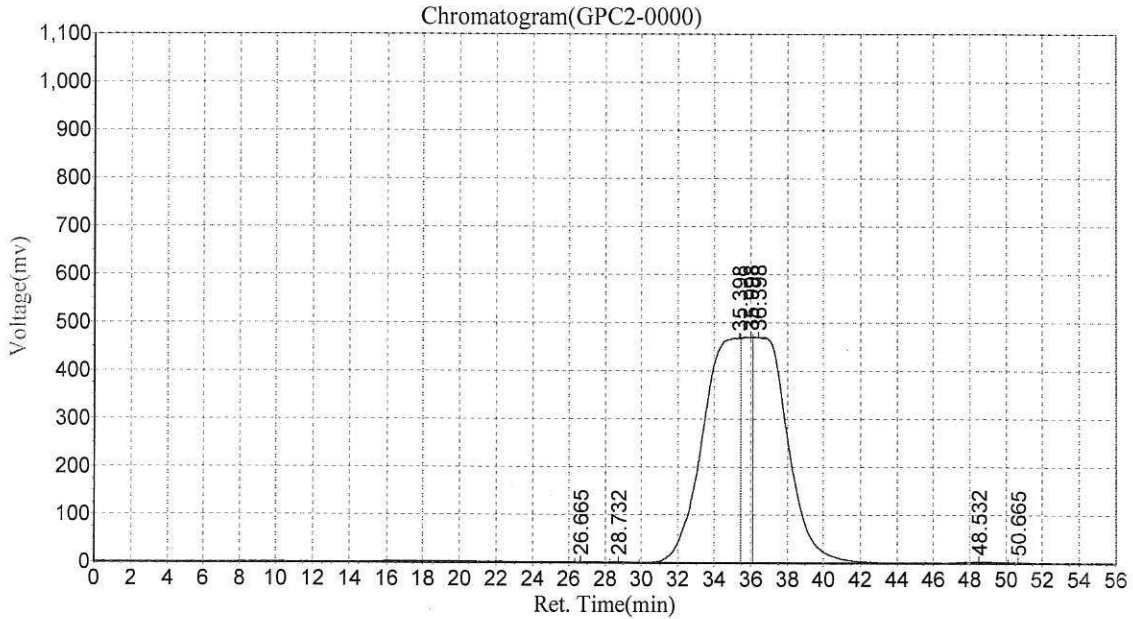
| Screens: Soil/Sediment/Solid/Other: | Analyst/Date |
|---|--------------------------|
| <input checked="" type="checkbox"/> No Anomalies (standard soil/wet sediment/sand/gravel)= <u>φ1-12</u> | <u>φ</u> <u>φ1/21/23</u> |
| <input checked="" type="checkbox"/> Standing Water Decanted (Not shared)= <u>φ1-12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

-BLIKI

BLA0557 23A0179/180 PSSDA SVOC

Date:2023-02-01,6:46:35 PM
 Data File:c:\n2000\data\gpc2\020123\GPC2-0000
 Method File:E:\GPC2_InHouse.mtd

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



Results

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

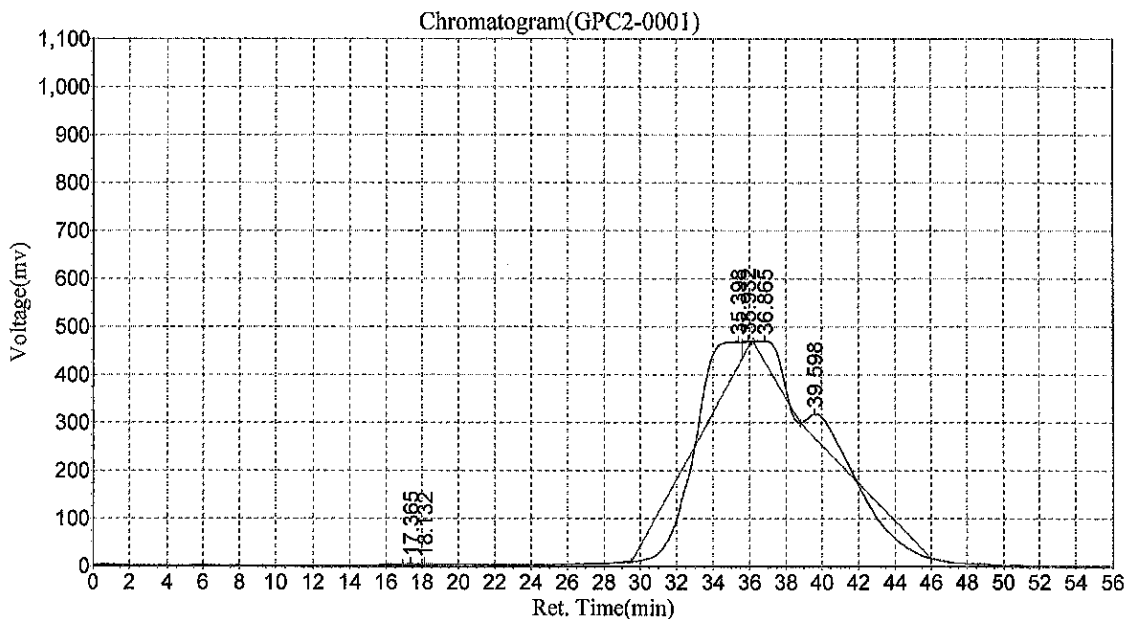
Ingredient Table

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

BLA0557 23A0179/180 PSDDA SVOC

Date:2023-02-01,7:44:20 PM
 Data File:c:\n2000\data\gpc2\020123\GPC2-0001
 Method File:E:\GPC2_InHouse.mtd

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



Results

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

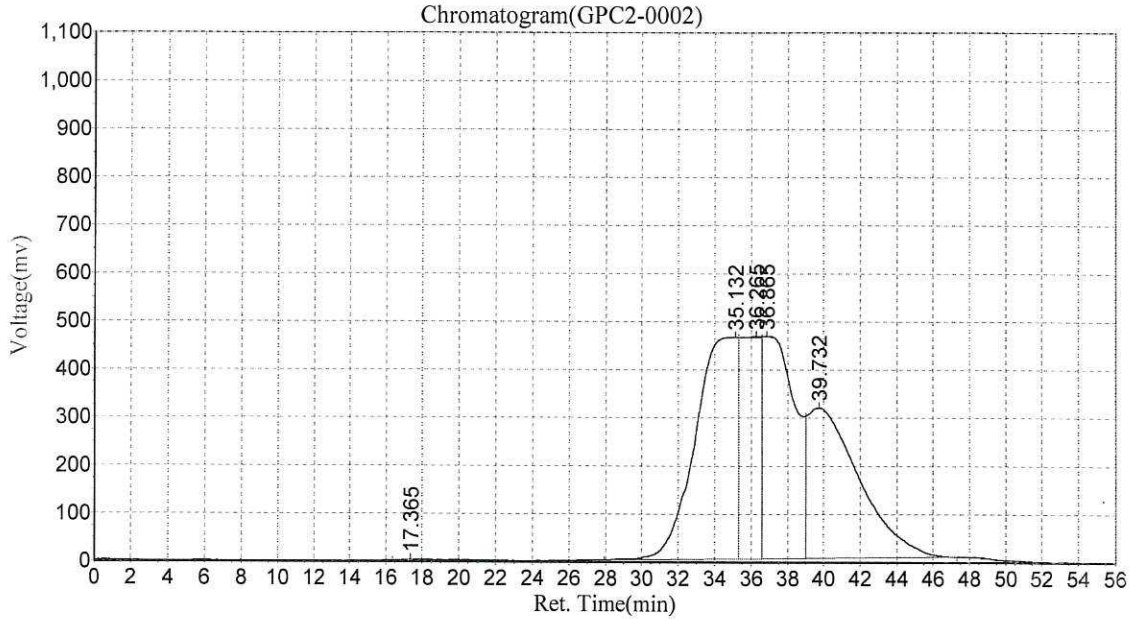
Ingredient Table

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

BLA0557 23A0179/180 PSDDA SVOC

Date:2023-02-01,8:42:01 PM
 Data File:c:\n2000\data\gpc2\020123\GPC2-0002
 Method File:E:\GPC2_InHouse.mtd

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



Results

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

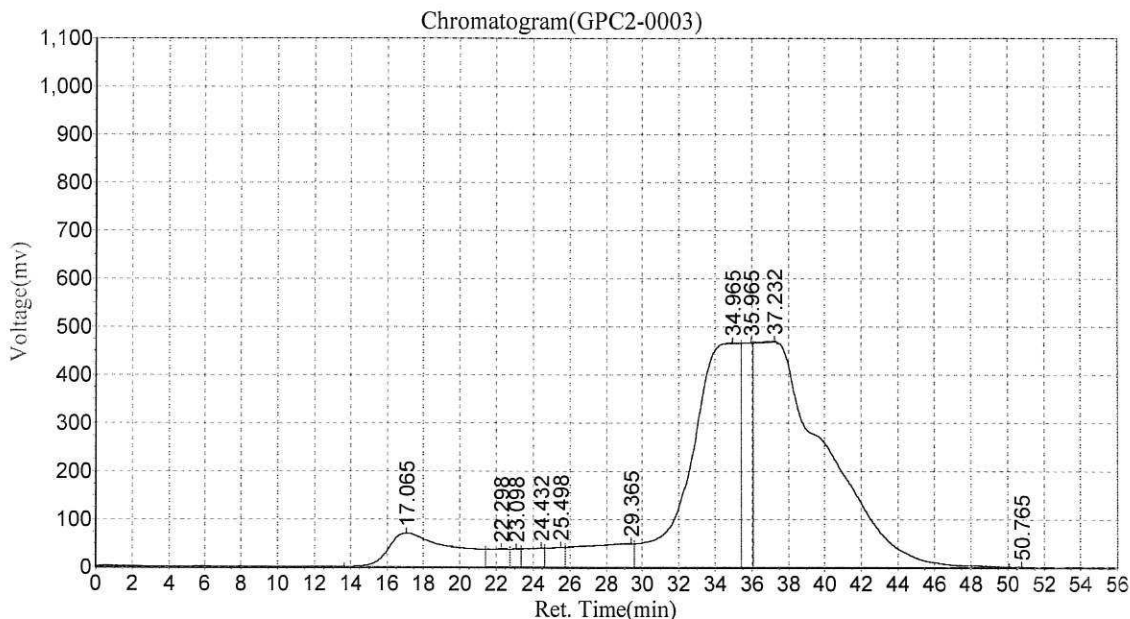
Ingredient Table

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

BLA0557 23A0179/180 PSDDA SVOC

Date:2023-02-01,9:39:45 PM
 Data File:c:\n2000\data\gpc2\020123\GPC2-0003
 Method File:E:\GPC2_InHouse.mtd

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



Results

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

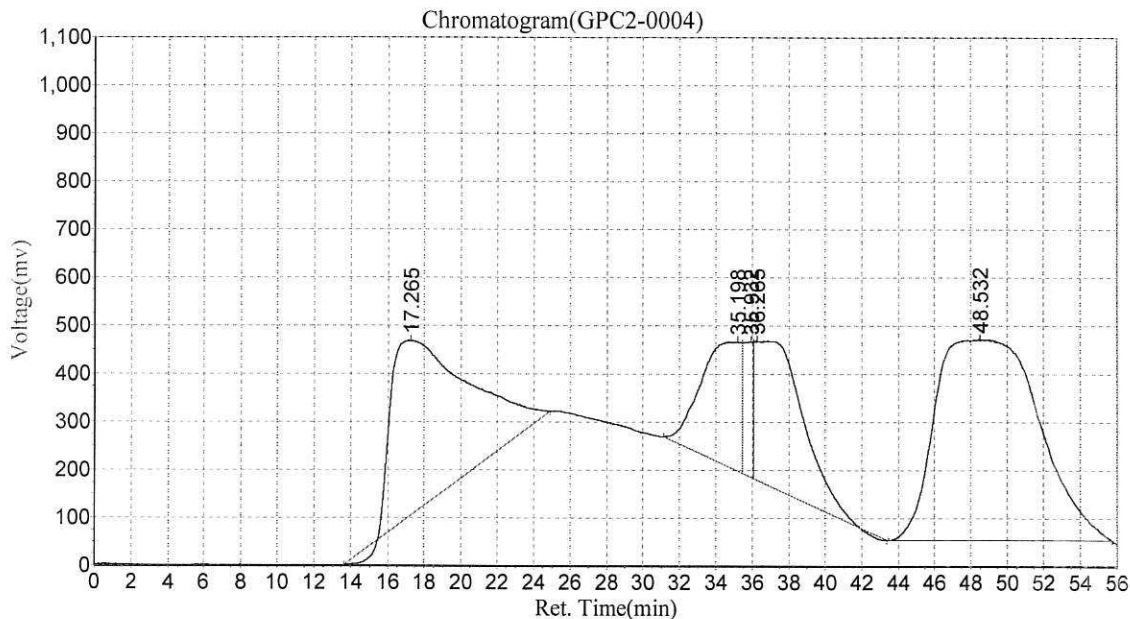
Ingredient Table

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

-ql
BLA0557 23A0179/180 PSSDA SVOC

Date:2023-02-01,10:37:26 PM
 Data File:c:\n2000\data\gpc2\020123\GPC2-0004
 Method File:E:\GPC2_InHouse.mtd

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



Results

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

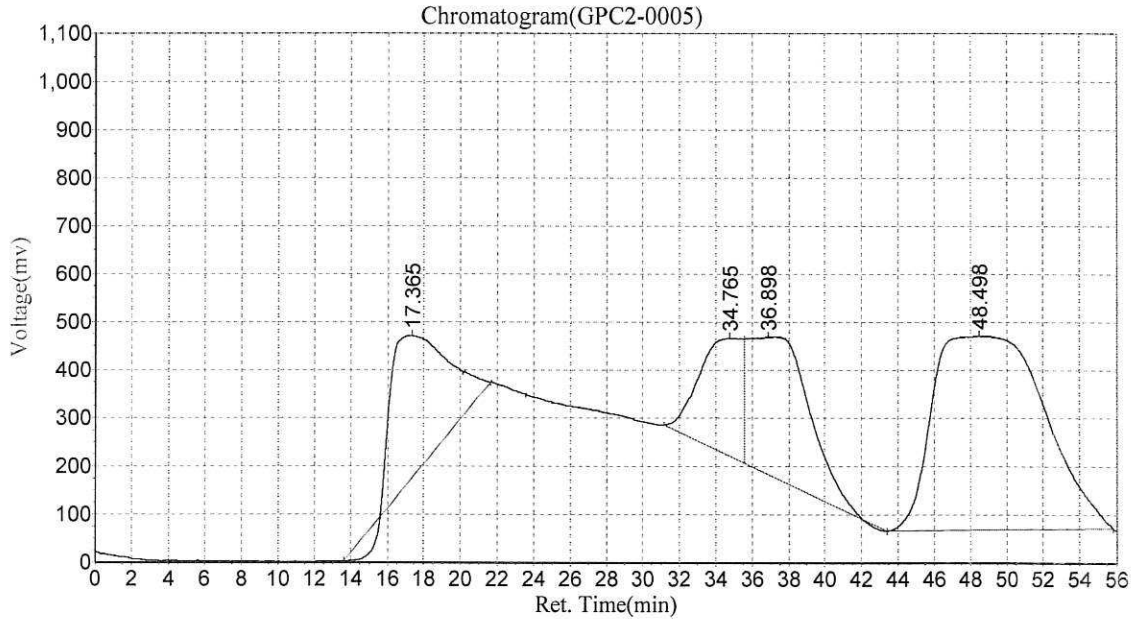
Ingredient Table

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

-02
BLA0557 23A0179/180 PSDDA SVOC

Date:2023-02-01,11:35:10 PM
 Data File:c:\n2000\data\gpc2\020123\GPC2-0005
 Method File:E:\GPC2_InHouse.mtd

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



Results

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

Ingredient Table

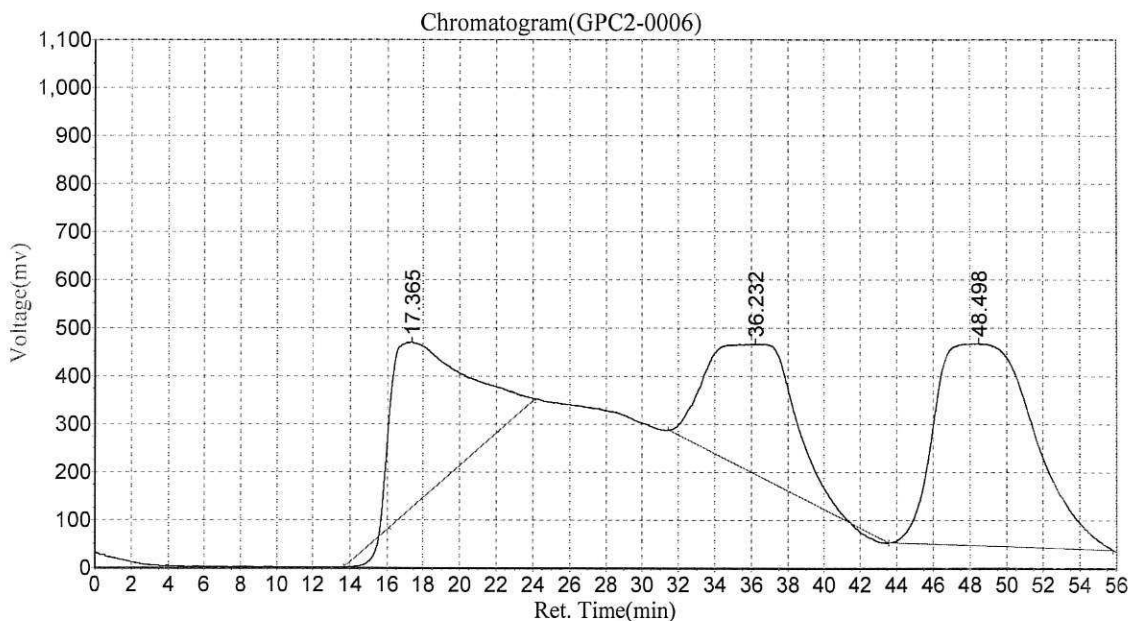
| No | Peak ID | Ret Time | Peak Width | Factor1 | Factor2 | ISTD Wt. |
|----|--------------|----------|------------|-----------|-----------|----------|
| 1 | Collect Pest | 29.000 | 0.010 | 0.00E+000 | 0.00E+000 | 0.0000 |
| 2 | Dump Pest | 46.000 | 0.010 | 0.00E+000 | 0.00E+000 | 0.0000 |
| 3 | Dump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

-43

BLA0557 23A0179/180 PSDDA SVOC

Date: 2023-02-02, 12:32:52 AM
 Data File: c:\n2000\data\gpc2\020123\GPC2-0006
 Method File: E:\GPC2_InHouse.mtd

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



Results

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

Ingredient Table

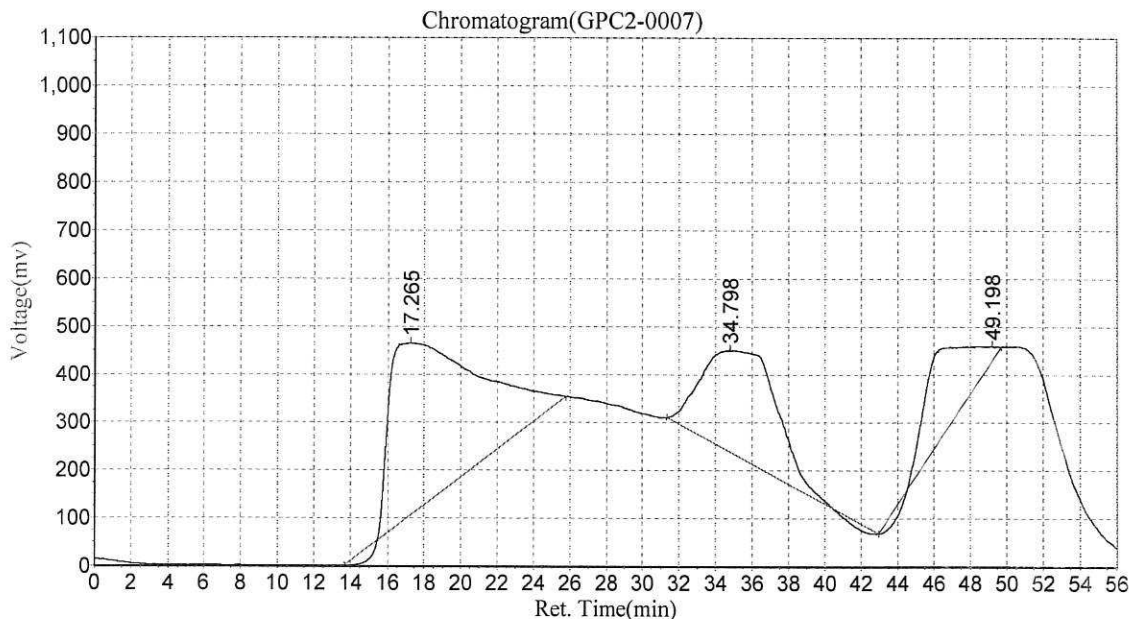
| No | Peak ID | Ret Time | Peak Width | Factor1 | Factor2 | ISTD Wt. |
|----|--------------|----------|------------|-----------|-----------|----------|
| 1 | Collect Pest | 29.000 | 0.010 | 0.00E+000 | 0.00E+000 | 0.0000 |
| 2 | Dump Pest | 46.000 | 0.010 | 0.00E+000 | 0.00E+000 | 0.0000 |
| 3 | Dump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

-04

BLA0557 23A0179/180 PSSDA SVOC

Date:2023-02-02,1:30:35 AM
 Data File:c:\n2000\data\gpc2\020123\GPC2-0007
 Method File:E:\GPC2_InHouse.mtd

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



Results

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

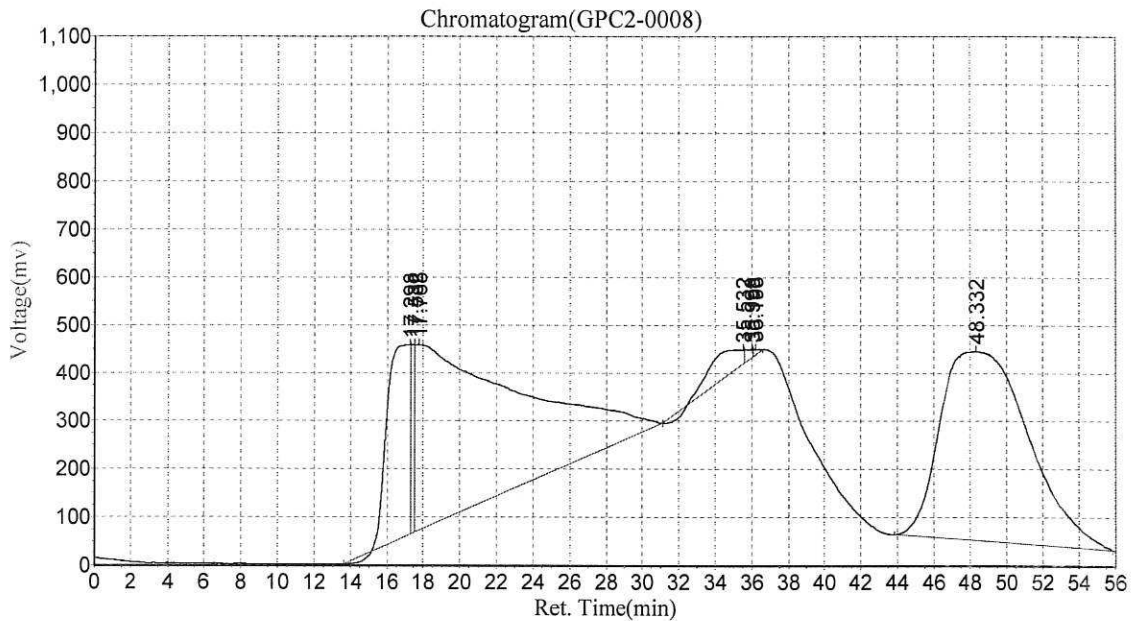
Ingredient Table

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

BLA0557 23A0179/180 PSDDA SVOC

Date:2023-02-02,2:28:16 AM
 Data File:c:\n2000\data\gpc2\020123\GPC2-0008
 Method File:E:\GPC2_InHouse.mtd

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



Results

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

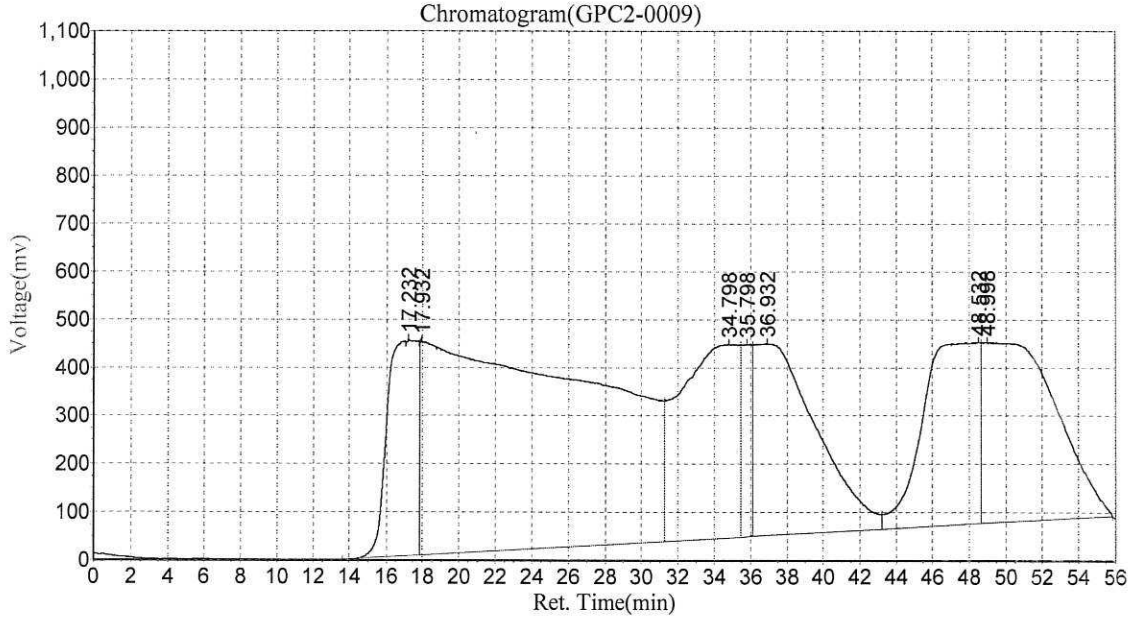
Ingredient Table

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

-06
BLA0557 23A0179/180 PSDDA SVOC

Date:2023-02-02,3:26:05 AM
 Data File:c:\n2000\data\gpc2\020123\GPC2-0009
 Method File:E:\GPC2_InHouse.mtd

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



Results

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

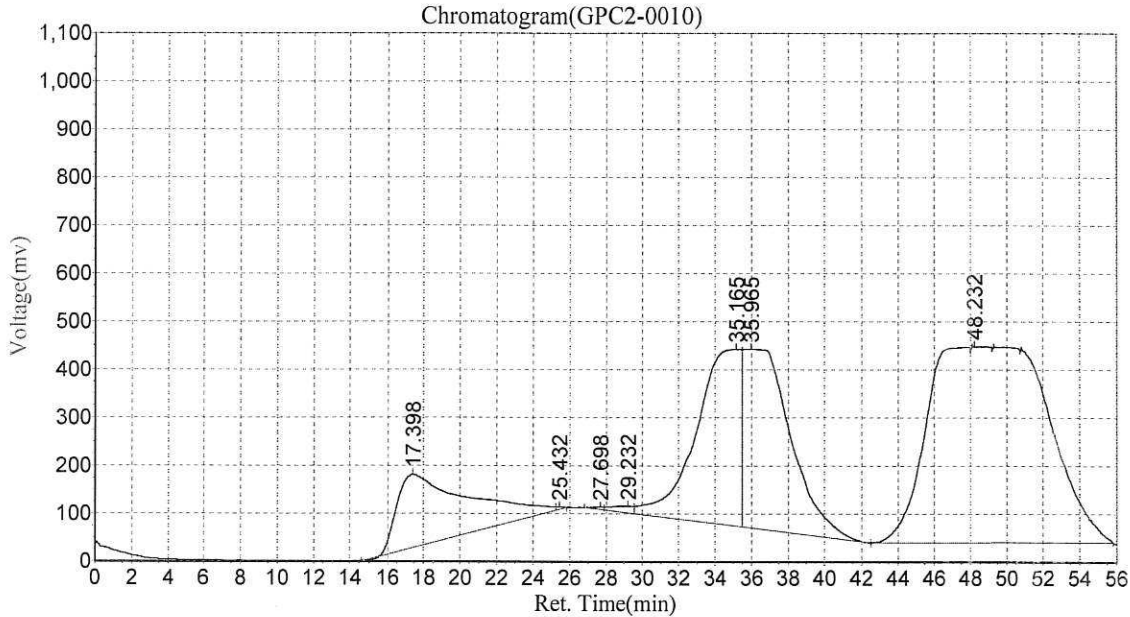
Ingredient Table

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

BLA0557 23A0179/180 PSSDA SVOC

Date:2023-02-02,4:23:47 AM
 Data File:c:\n2000\data\gpc2\020123\GPC2-0010
 Method File:E:\GPC2_InHouse.mtd

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



Results

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

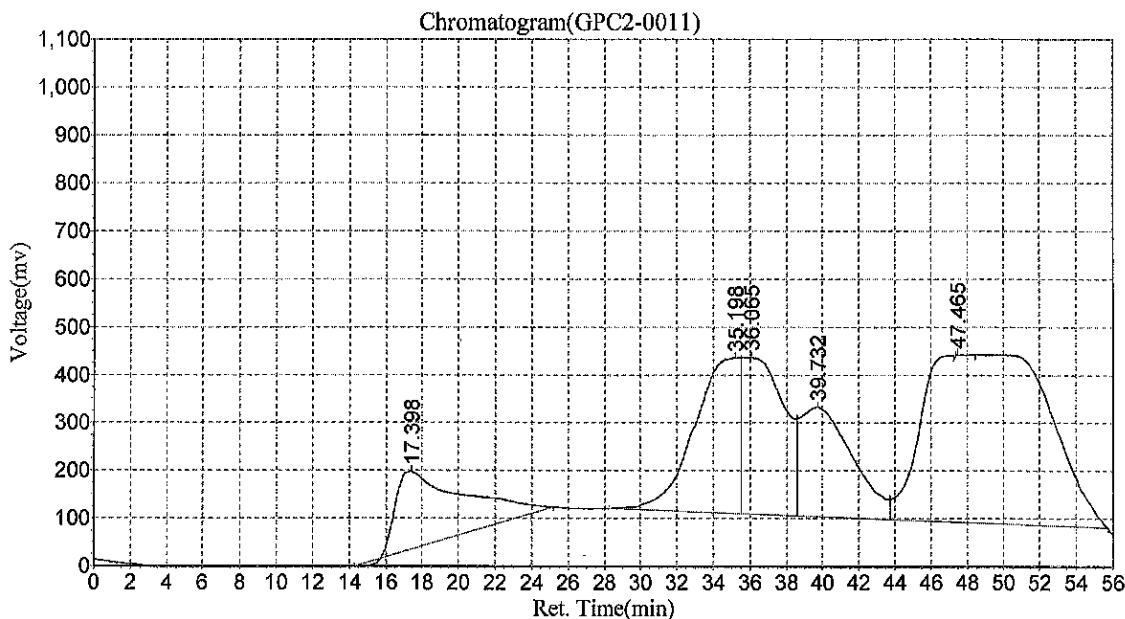
Ingredient Table

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

BLA0557 23A0179/180 PSDDA SVOC

Date:2023-02-02,5:21:31 AM
 Data File:c:\n2000\data\gpc2\020123\GPC2-0011
 Method File:E:\GPC2_InHouse.mtd

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



Results

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

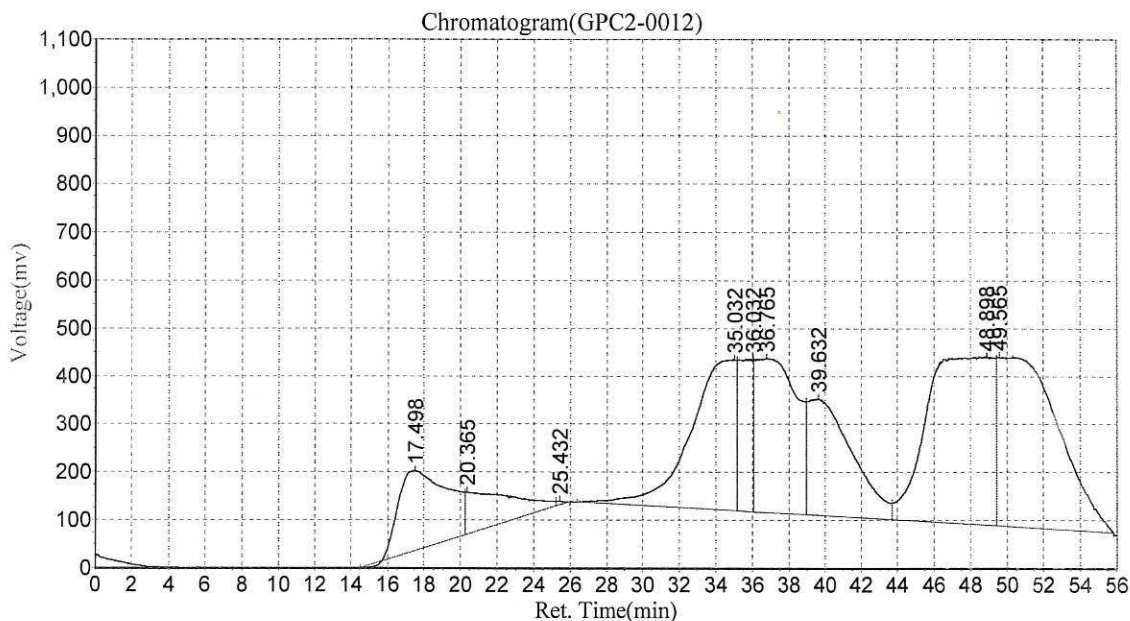
Ingredient Table

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

BLA0557 23A0179/180 PSDDA SVOC

Date:2023-02-02,6:19:13 AM
 Data File:c:\n2000\data\gpc2\020123\GPC2-0012
 Method File:E:\GPC2_InHouse.mtd

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



Results

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

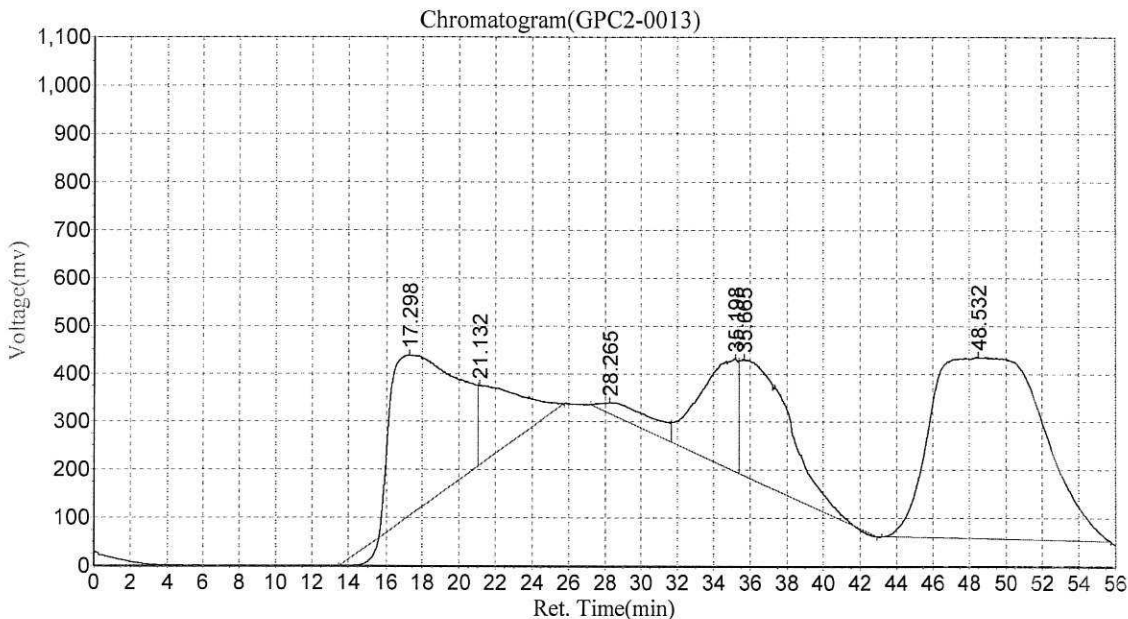
Ingredient Table

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

BLA0557 23A0179/180 PSDDA SVOC

Date:2023-02-02,7:16:56 AM
 Data File:c:\n2000\data\gpc2\020123\GPC2-0013
 Method File:E:\GPC2_InHouse.mtd

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



Results

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

Ingredient Table

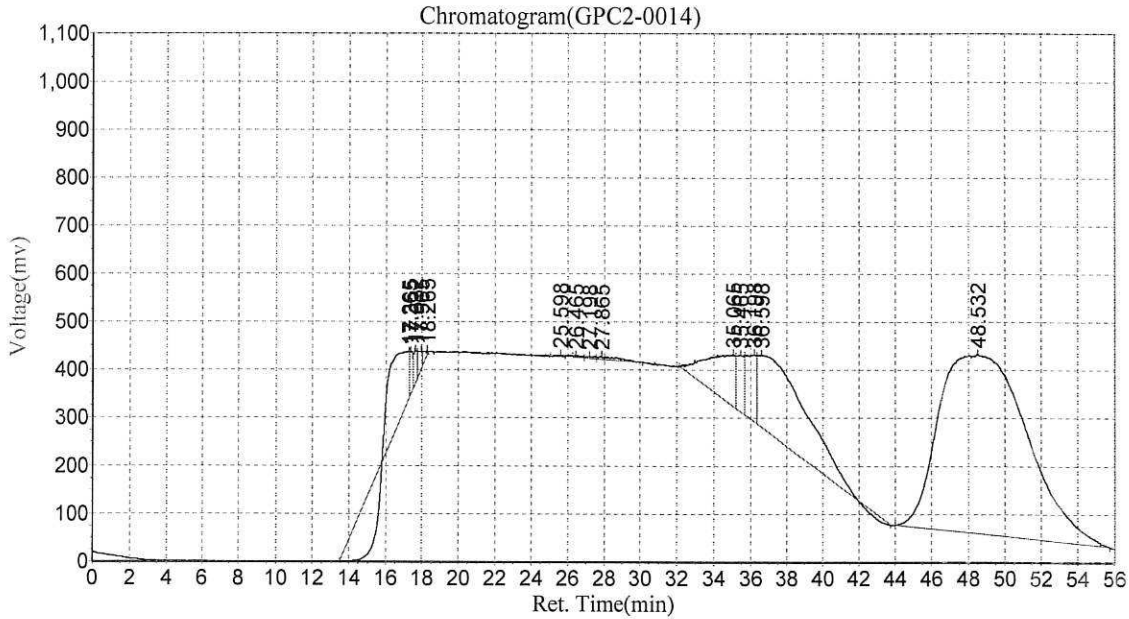
| No | Peak ID | Ret Time | Peak Width | Factor1 | Factor2 | ISTD Wt. |
|----|--------------|----------|------------|-----------|-----------|----------|
| 1 | Collect Pest | 29.000 | 0.010 | 0.00E+000 | 0.00E+000 | 0.0000 |
| 2 | Dump Pest | 46.000 | 0.010 | 0.00E+000 | 0.00E+000 | 0.0000 |
| 3 | Dump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

-49

BLA0557 23A0179/180 PSSDA SVOC

Date:2023-02-02,8:14:37 AM
 Data File:c:\n2000\data\gpc2\020123\GPC2-0014
 Method File:E:\GPC2_InHouse.mtd

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



Results

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

Ingredient Table

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

GPC #2

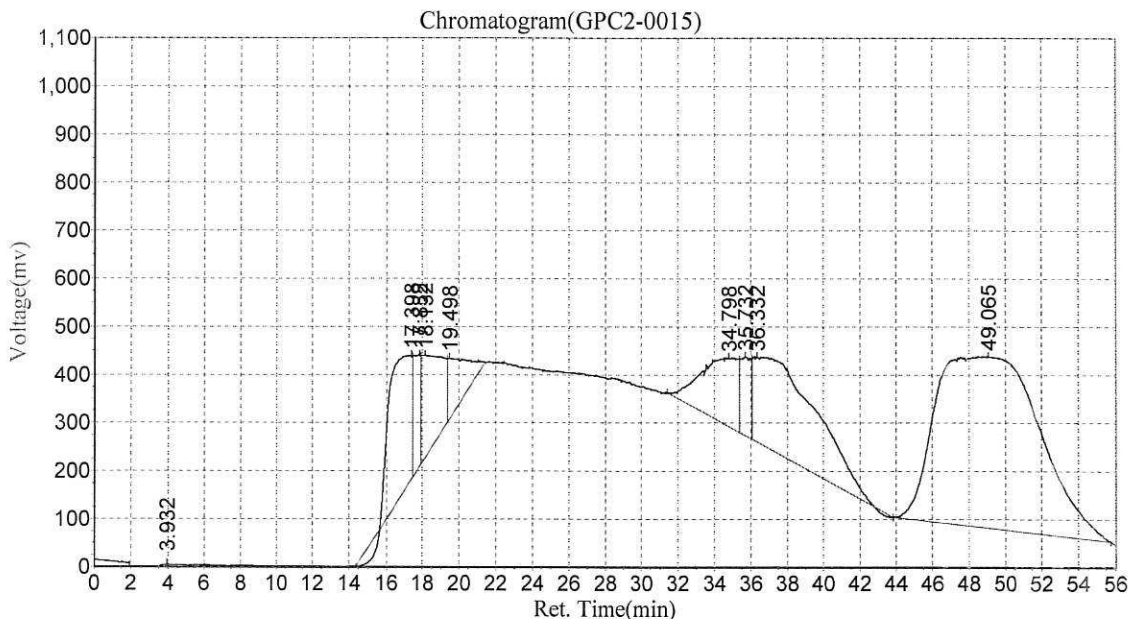
| | | | | | | |
|---|-------------|--------|-------|-----------|-----------|--------|
| 4 | Dump Pest | 46.000 | 0.010 | 0.00E+000 | 0.00E+000 | 0.0000 |
| | Dump BAN | 48.000 | 0.010 | 0.00E+000 | 0.00E+000 | 0.0000 |
| | Collect BAN | 24.000 | 0.010 | 0.00E+000 | 0.00E+000 | 0.0000 |

-1φ

BLA0557 23A0179/180 PSDDA SVOC

Date:2023-02-02,9:12:25 AM
 Data File:c:\n2000\data\gpc2\020123\GPC2-0015
 Method File:E:\GPC2_InHouse.mtd

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



Results

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

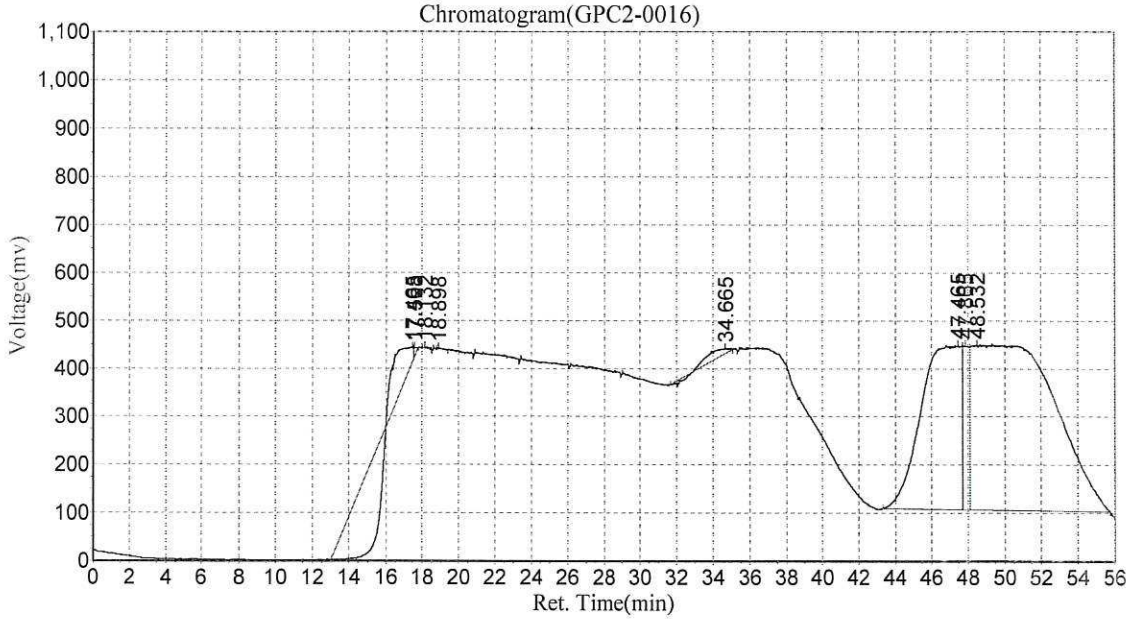
Ingredient Table

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

BLA0557 23A0179/180 PSDDA SVOC

Date:2023-02-02,10:10:07 AM
Data File:c:\n2000\data\gpc2\020123\GPC2-0016
Method File:E:\GPC2_InHouse.mtd

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



Results

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

Ingredient Table

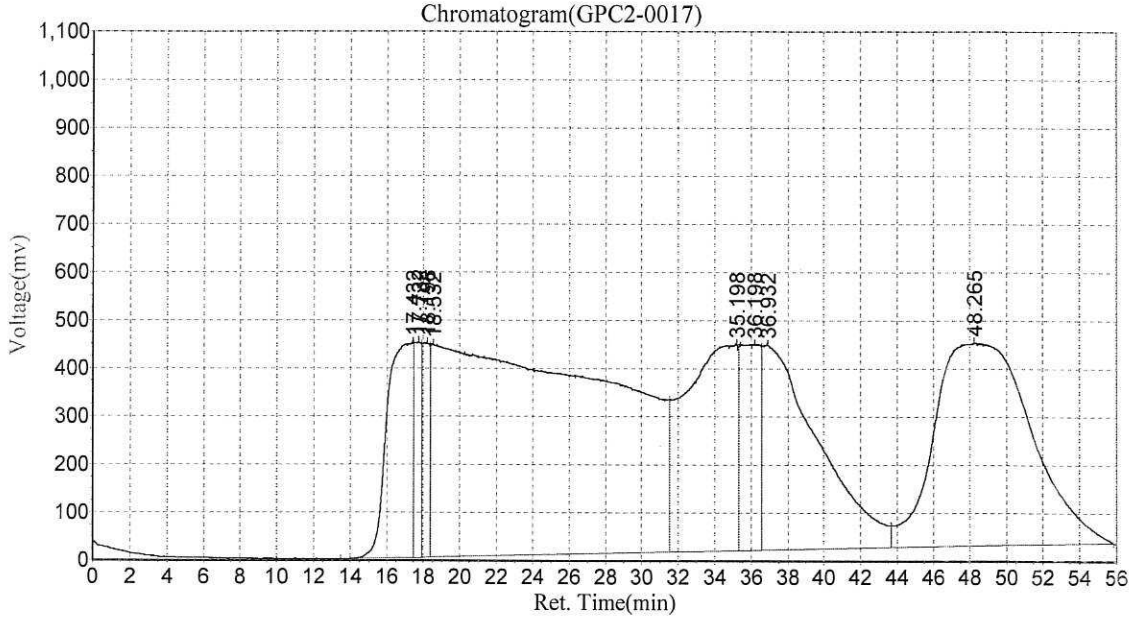
| No | Peak ID | Ret Time | Peak Width | Factor1 | Factor2 | ISTD Wt. |
|----|--------------|----------|------------|-----------|-----------|----------|
| 1 | Collect Pest | 29.000 | 0.010 | 0.00E+000 | 0.00E+000 | 0.0000 |
| 2 | Dump Pest | 46.000 | 0.010 | 0.00E+000 | 0.00E+000 | 0.0000 |
| 3 | Dump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

-12

BLA0557 23A0179/180 PSDDA SVOC

Date:2023-02-02,11:07:55 AM
 Data File:c:\n2000\data\gpc2\020123\GPC2-0017
 Method File:E:\GPC2_InHouse.mtd

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



Results

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

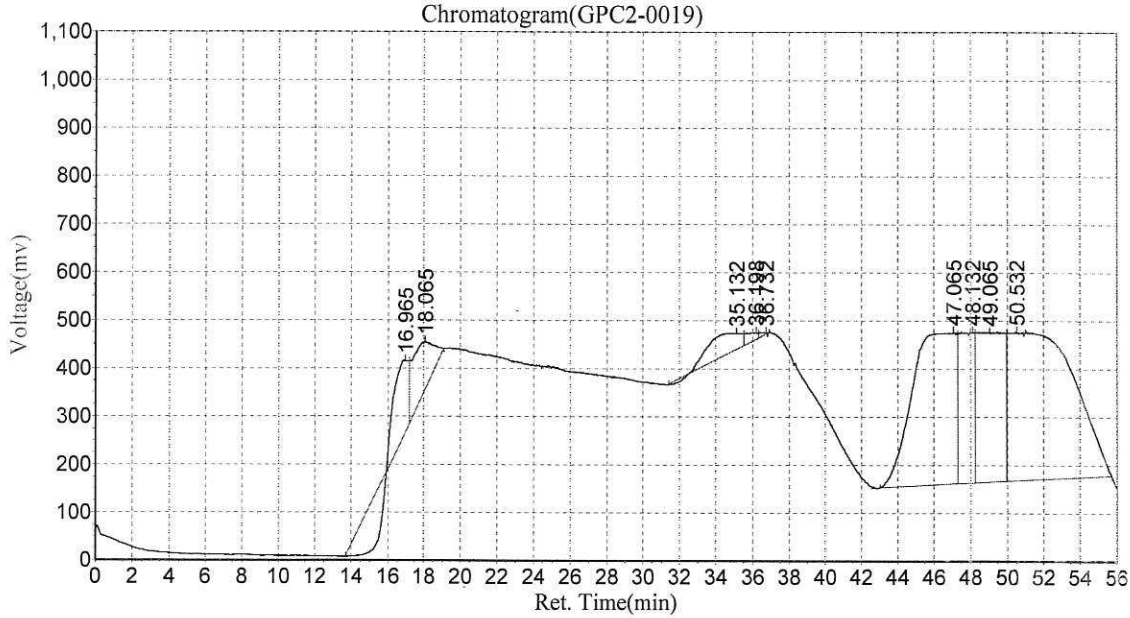
Ingredient Table

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

BLA0557 23A0179/180 PSDDA SVOC

Date:2023-02-02,1:03:20 PM
 Data File:c:\n2000\data\gpc2\020123\GPC2-0019
 Method File:E:\GPC2_InHouse.mtd

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



Results

| Peak No. | Peak ID | Ret Time | Height | Area | Conc |
|--------------|---------|----------|-------------|---------------|---------|
| 1 | | 16.965 | 149276.047 | 827717.250 | 0.4286 |
| 2 | | 18.065 | 99681.953 | 932055.000 | 4.8258 |
| 3 | | 35.132 | 34086.973 | 5683143.500 | 2.9425 |
| 4 | | 36.198 | 14815.680 | 912139.125 | 0.4723 |
| 5 | | 36.732 | 4452.533 | 209480.906 | 0.1085 |
| 6 | | 47.065 | 310957.781 | 52600256.000 | 27.2342 |
| 7 | | 48.132 | 309697.813 | 17354644.000 | 8.9855 |
| 8 | | 49.065 | 307655.688 | 31929688.000 | 16.5318 |
| 9 | | 50.532 | 304006.063 | 74303128.000 | 38.4710 |
| Total | | | 1534630.529 | 193140751.781 | 100.000 |

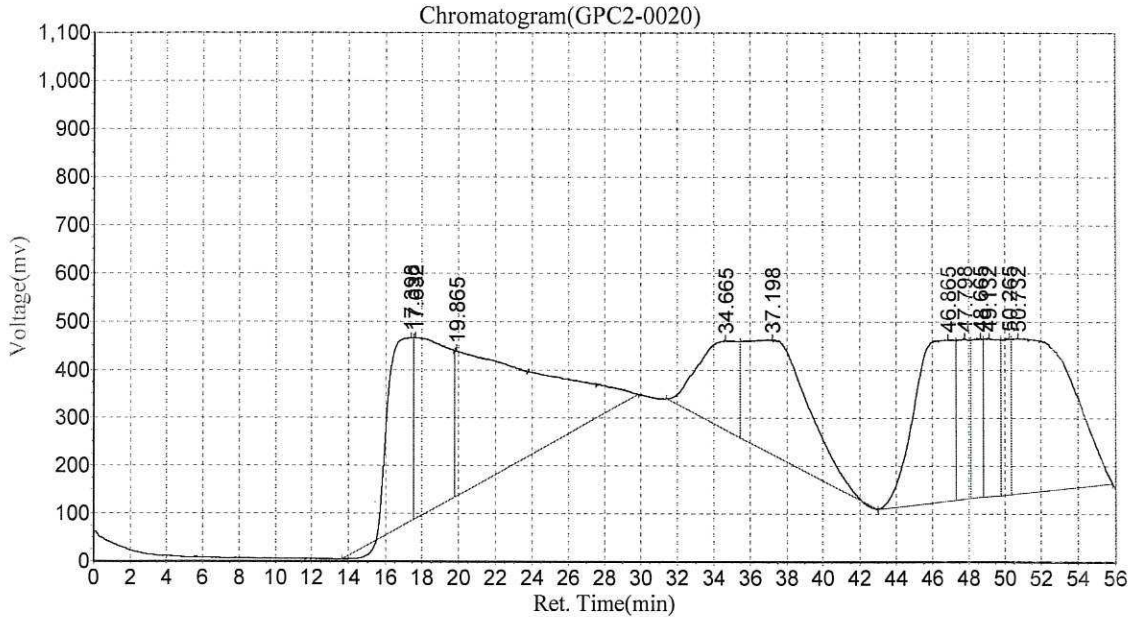
Ingredient Table

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

-023
BLA0557 23A0179/180 PSDDA SVOC

Date:2023-02-02,2:01:02 PM
 Data File:c:\n2000\data\gpc2\020123\GPC2-0020
 Method File:E:\GPC2_InHouse.mtd

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



Results

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

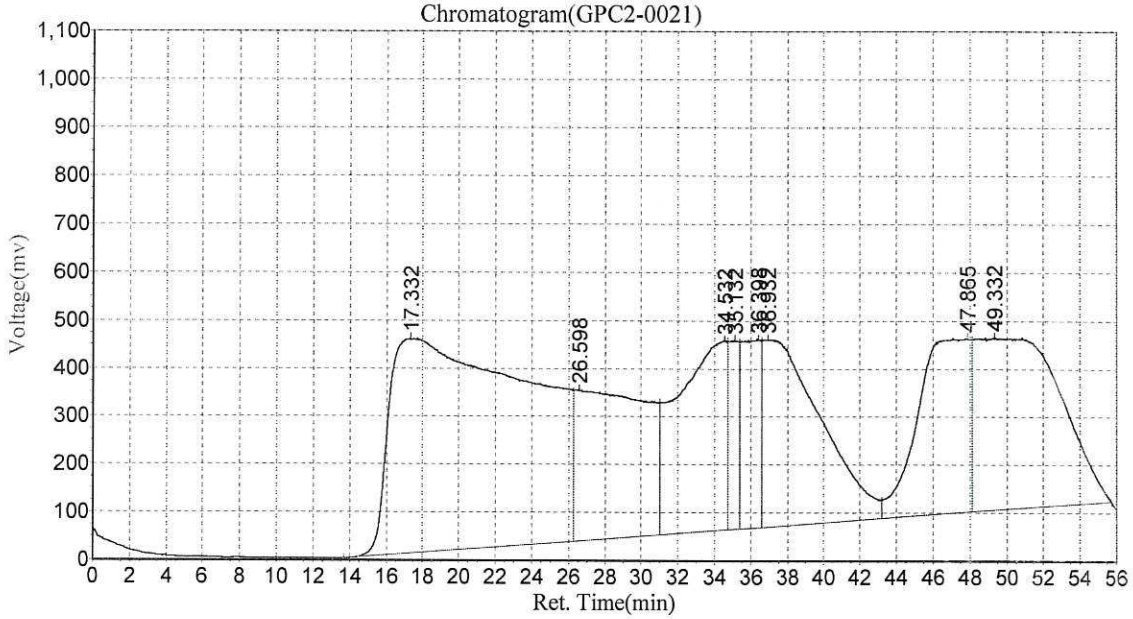
Ingredient Table

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

-0304
BLA0557 23A0179/180 PSDDA SVOC

Date:2023-02-02 2:58:50 PM
 Data File:c:\n2000\data\gpc2\020123\GPC2-0021
 Method File:E:\GPC2_InHouse.mtd

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



Results

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

Ingredient Table

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



PREPARATION BATCH SUMMARY
EPA 8270E

Laboratory: Analytical Resources, LLC SDG: 23A0180
Client: Anchor QEA, LLC Project: AOC5 MR Phase 1
Batch: BLC0442 Batch Matrix: Solid Preparation: EPA 3546 (Microwave)

| SAMPLE NAME | LAB SAMPLE ID | LAB FILE ID | DATE PREPARED | OBSERVATIONS |
|-----------------|---------------|----------------|----------------|------------------------------------|
| LDW23-SC1164 | 23A0180-01RE1 | NT1003222329.D | 03/17/23 11:16 | From BLA0557 by CTO on 16-Mar-2023 |
| LDW23-SC1164-FD | 23A0180-02RE1 | NT1003222330.D | 03/17/23 11:16 | From BLA0557 by CTO on 16-Mar-2023 |
| LDW23-SC1158 | 23A0180-03RE1 | NT1003222331.D | 03/17/23 11:16 | From BLA0557 by CTO on 16-Mar-2023 |
| LDW23-SC1151 | 23A0180-04RE1 | NT1003222332.D | 03/17/23 11:16 | From BLA0557 by CTO on 16-Mar-2023 |
| Blank | BLC0442-BLK1 | NT1003222306.D | 03/17/23 11:16 | |
| Blank | BLC0442-BLK3 | NT1003222321.D | 03/17/23 11:16 | full scan |
| LCS | BLC0442-BS1 | NT1003222307.D | 03/17/23 11:16 | |
| LCS Dup | BLC0442-BSD1 | NT1003222308.D | 03/17/23 11:16 | |
| Reference | BLC0442-SRM1 | NT1003222309.D | 03/17/23 11:16 | |



WO Comments

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

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

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

Batch QC

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



Batch: BLC0442

Prepared using: EPA 3546 (Microwave)

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

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

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

+1g DI WATER

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



Batch: BLC0442

Prepared using: EPA 3546 (Microwave)

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

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

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



Extraction Parameter: SWA Extraction Batch BLC0442 RE

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

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



Batch: BLC0442 **RE**

Prepared using: EPA 3546 (Microwave)

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

Matrix: Solid

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

Balance ID: **B146462614**

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

From BLA0557 on 3/16/2023 by CTO

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

The following standards may be missing from this batch!

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



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

Prep Instructions

SPECIAL INSTRUCTIONS:

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

A. Need Total Solids Y / N

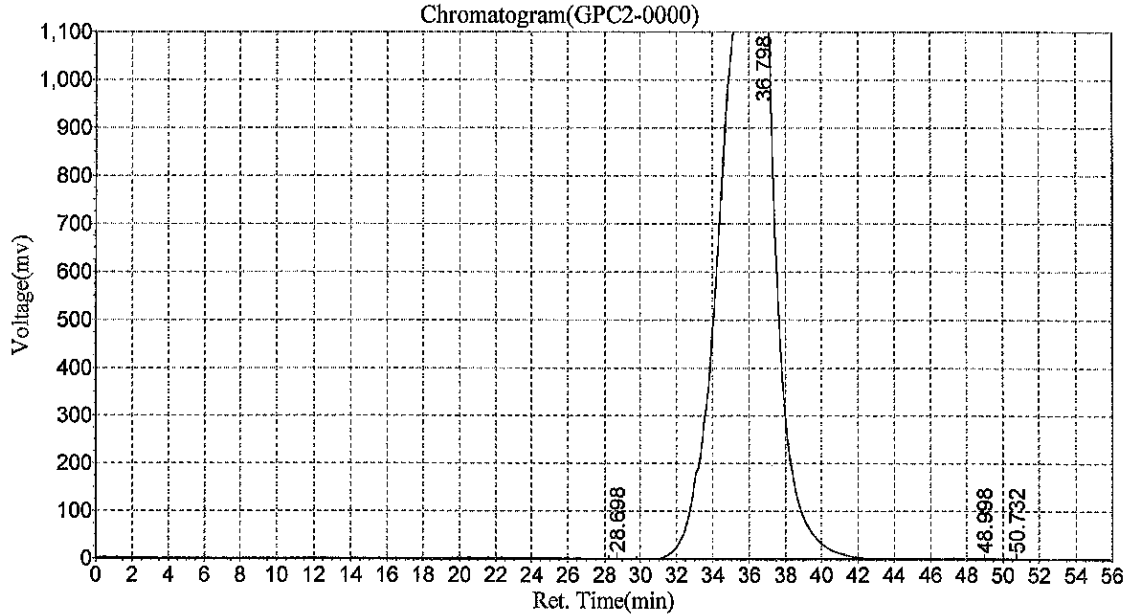
B. Archive/Freeze Y / N

| | |
|--|--|
| | |
|--|--|

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

Date:2023-03-20,2:01:58 PM
 Data File:c:\n2000\data\gpc2\032023\GPC2-0000
 Method File:E:\GPC2_InHouse.mtd

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



Results

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

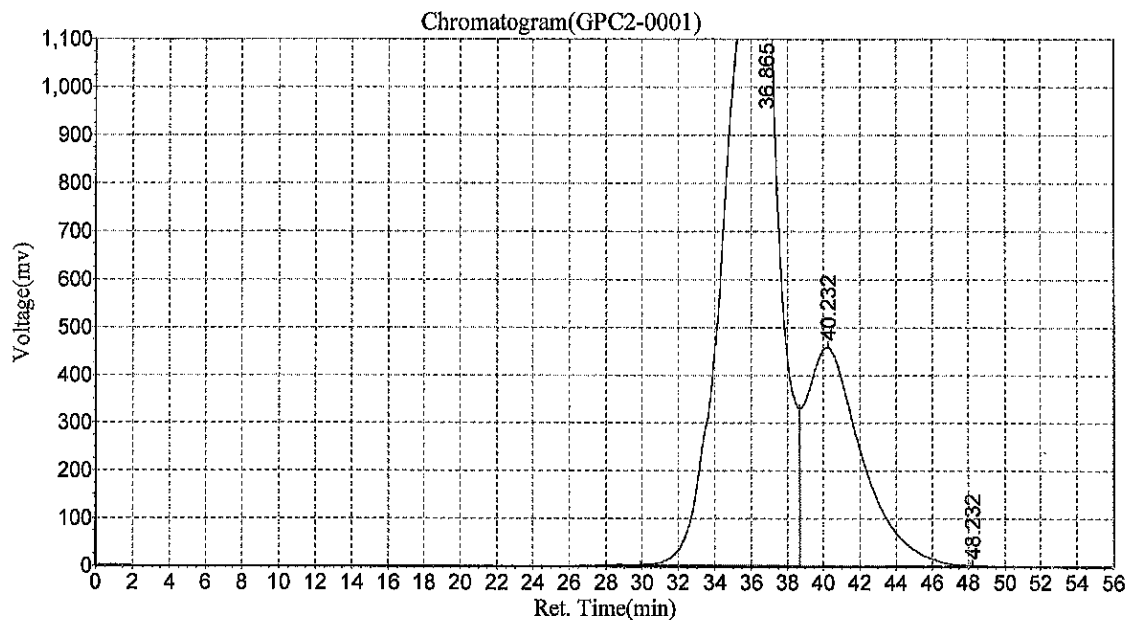
Ingredient Table

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

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

Date:2023-03-20,2:59:45 PM
Data File:c:\n2000\data\gpc2\032023\GPC2-0001
Method File:E:\GPC2_InHouse.mtd

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



Results

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

Ingredient Table

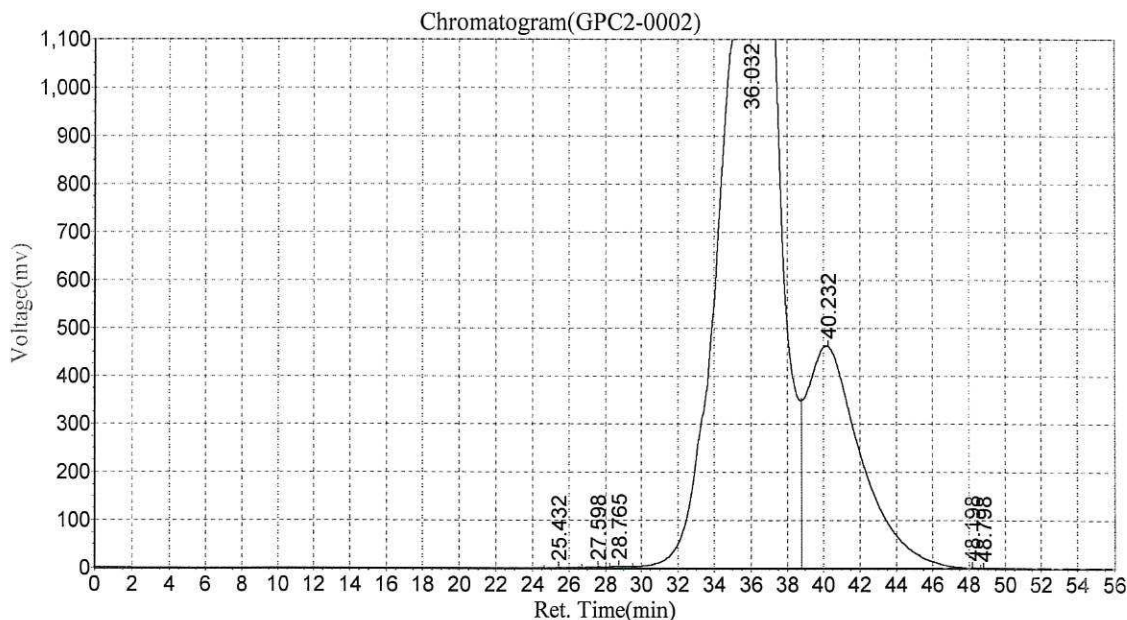
| No | Peak ID | Ret Time | Peak Width | Factor1 | Factor2 | ISTD Wt. |
|----|--------------|----------|------------|-----------|-----------|----------|
| 1 | Collect Pest | 29.000 | 0.010 | 0.00E+000 | 0.00E+000 | 0.0000 |
| 2 | Dump Pest | 46.000 | 0.010 | 0.00E+000 | 0.00E+000 | 0.0000 |
| 3 | Dump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

BSP1

BLC0442/423/23A0179/180/23C0174

Date:2023-03-20,3:57:27 PM
 Data File:c:\n2000\data\gpc2\032023\GPC2-0002
 Method File:E:\GPC2_InHouse.mtd

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



Results

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

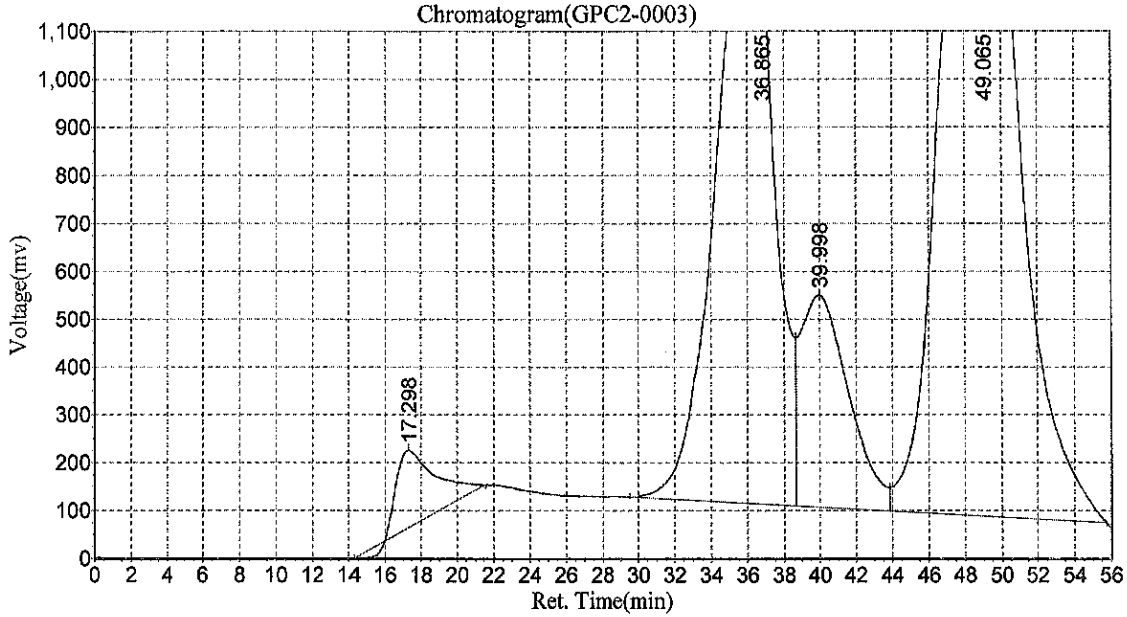
Ingredient Table

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

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

Date:2023-03-20,4:55:10 PM
 Data File:c:\n2000\data\gpc2\032023\GPC2-0003
 Method File:E:\GPC2_InHouse.mtd

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



Results

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

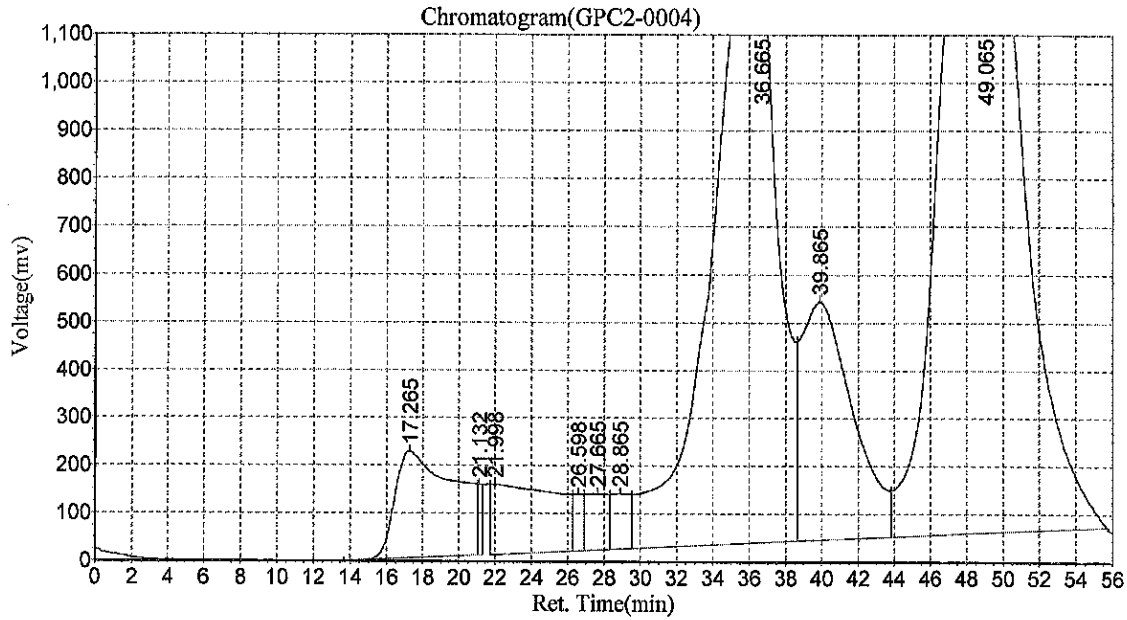
Ingredient Table

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

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

Date:2023-03-20,5:52:52 PM
Data File:c:\n2000\data\gpc2\032023\GPC2-0004
Method File:E:\GPC2_InHouse.mtd

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



Results

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

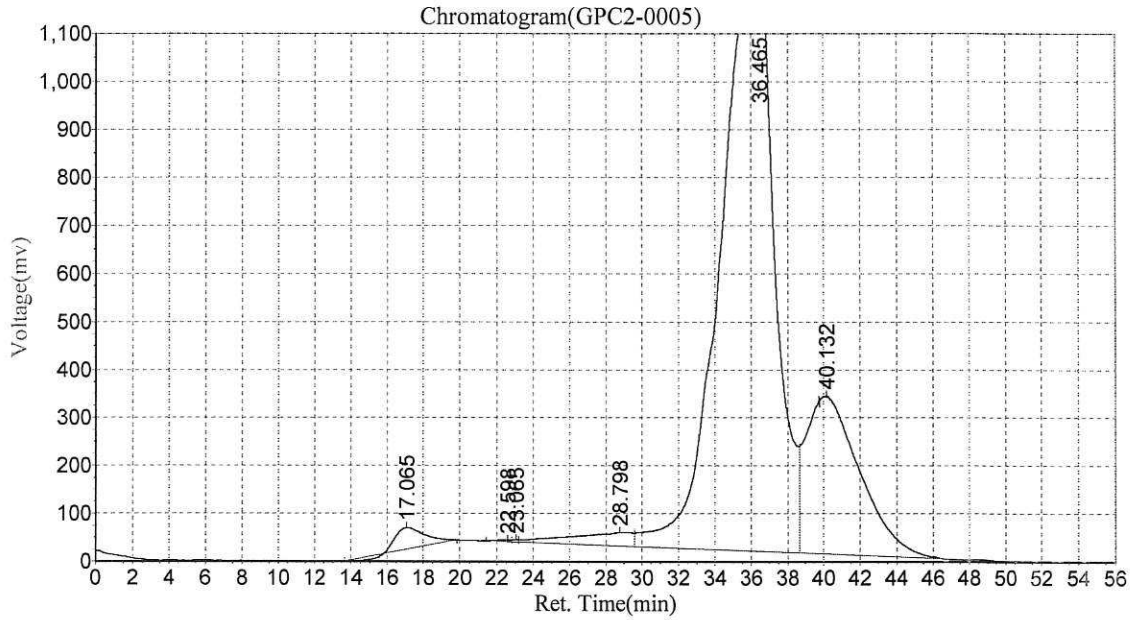
Ingredient Table

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

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

Date:2023-03-20,6:50:39 PM
 Data File:c:\n2000\data\gpc2\032023\GPC2-0005
 Method File:E:\GPC2_InHouse.mtd

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



Results

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

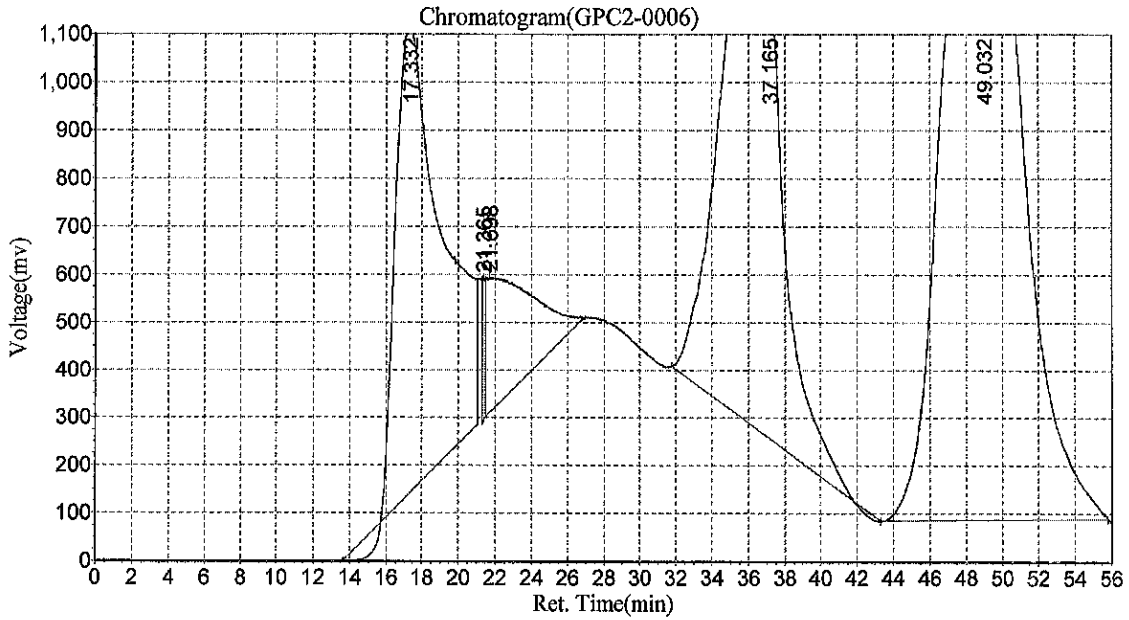
Ingredient Table

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

BLC0442/423/23A0179/180/23C0174

Date:2023-03-20,7:48:21 PM
 Data File:c:\n2000\data\gpc2\032023\GPC2-0006
 Method File:E:\GPC2_InHouse.mtd

Analyst:°NRB
 Date/Time2023-03-20,7:48:21 PM



Results

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

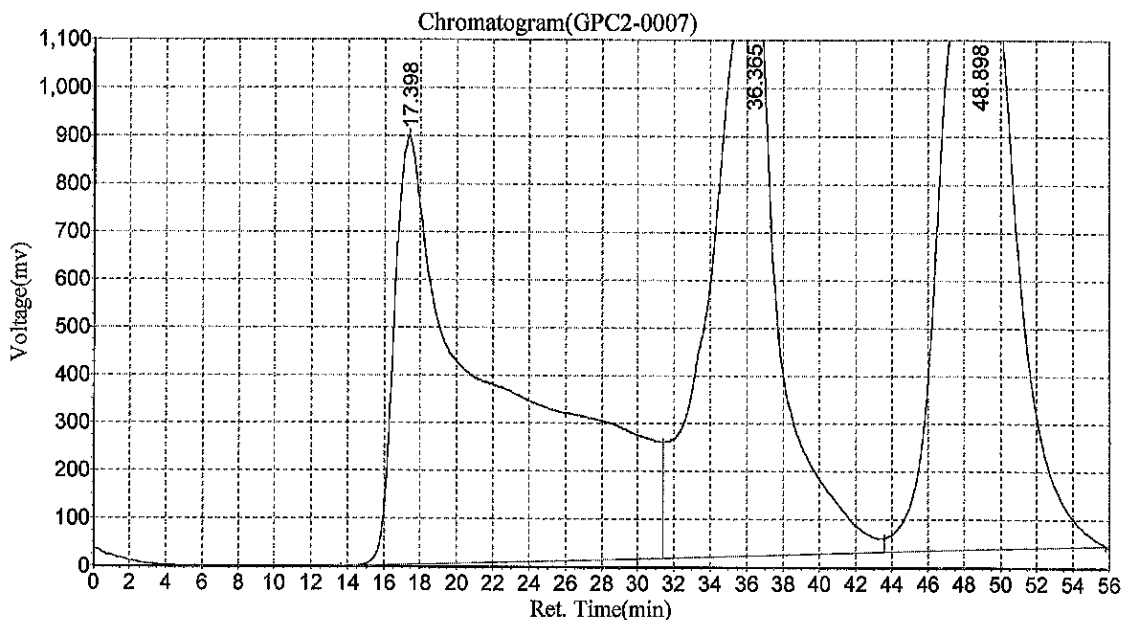
Ingredient Table

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

BLC0442/423/23A0179/180/23C0174

Date:2023-03-20,8:46:03 PM
 Data File:c:\n2000\data\gpc2\032023\GPC2-0007
 Method File:E:\GPC2_InHouse.mtd

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



Results

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

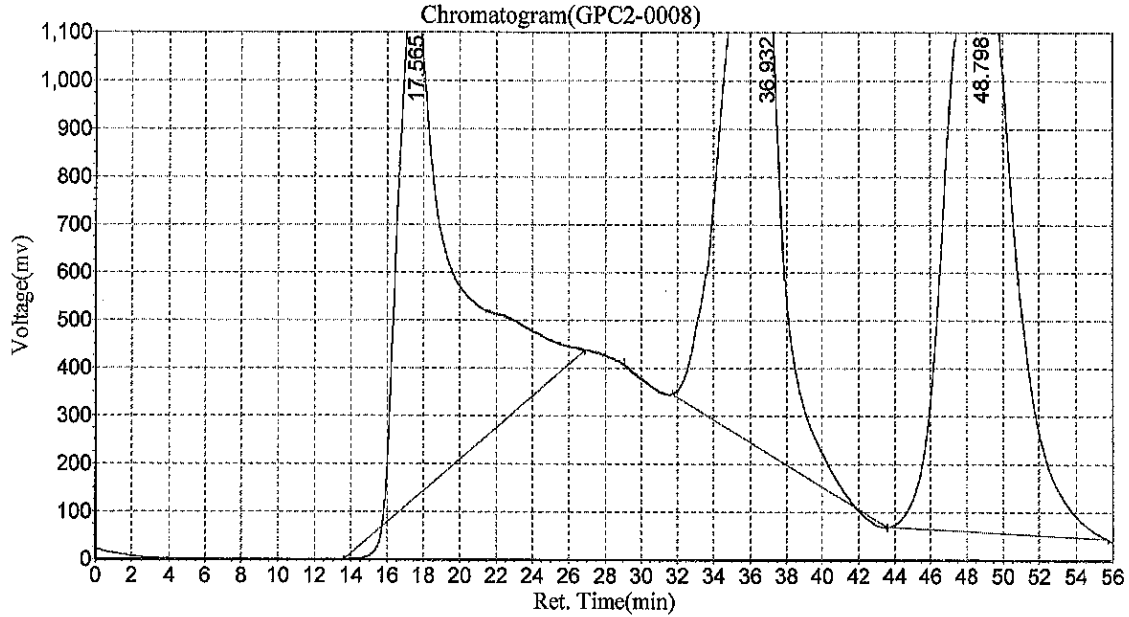
Ingredient Table

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

BLC0442/423/23A0179/180/23C0174 ⁰³

Date:2023-03-20,9:43:44 PM
 Data File:c:\n2000\data\gpc2\032023\GPC2-0008
 Method File:E:\GPC2_InHouse.mtd

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



Results

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

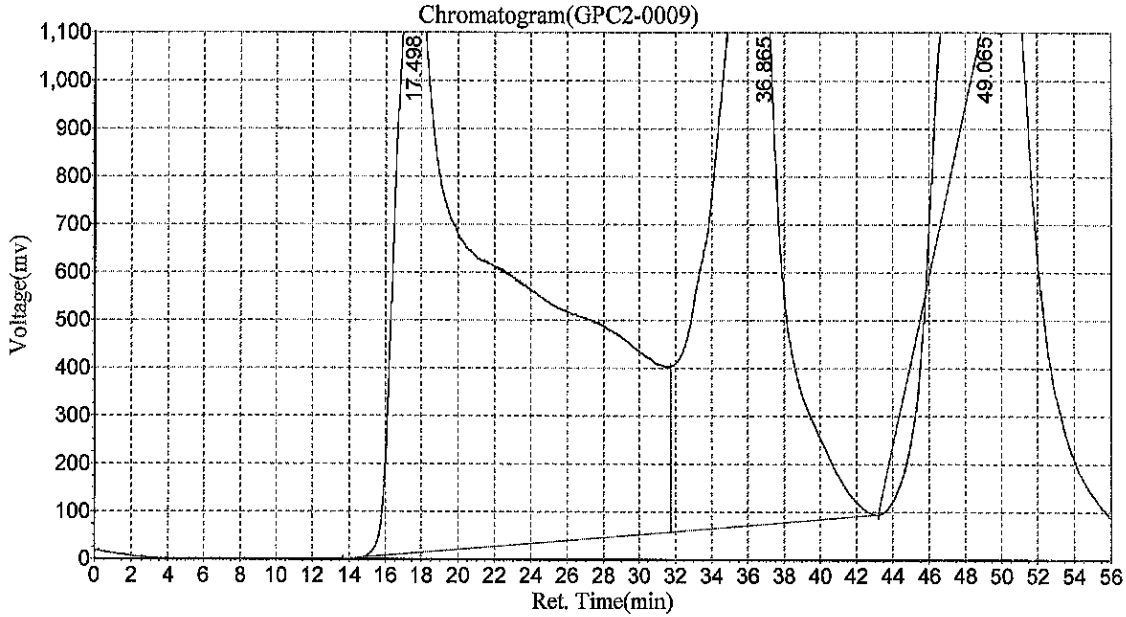
Ingredient Table

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

BLC0442/423/23A0179/180/23C0174

Date:2023-03-20,10:41:32 PM
 Data File:c:\n2000\data\gpc2\032023\GPC2-0009
 Method File:E:\GPC2_InHouse.mtd

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



Results

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

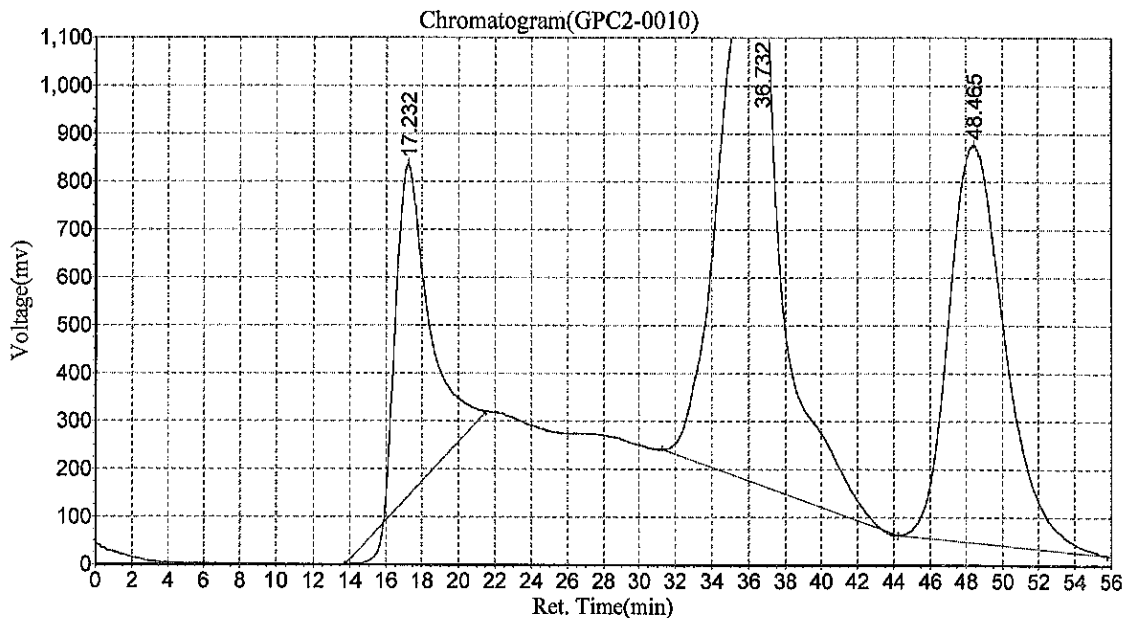
Ingredient Table

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

BLC0442/423/23A0179/180/23C0174

Date:2023-03-20,11:39:14 PM
 Data File:c:\n2000\data\gpc2\032023\GPC2-0010
 Method File:E:\GPC2_InHouse.mtd

Analyst:°NRB
 Date/Time2023-03-20,11:39:14 PM



Results

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

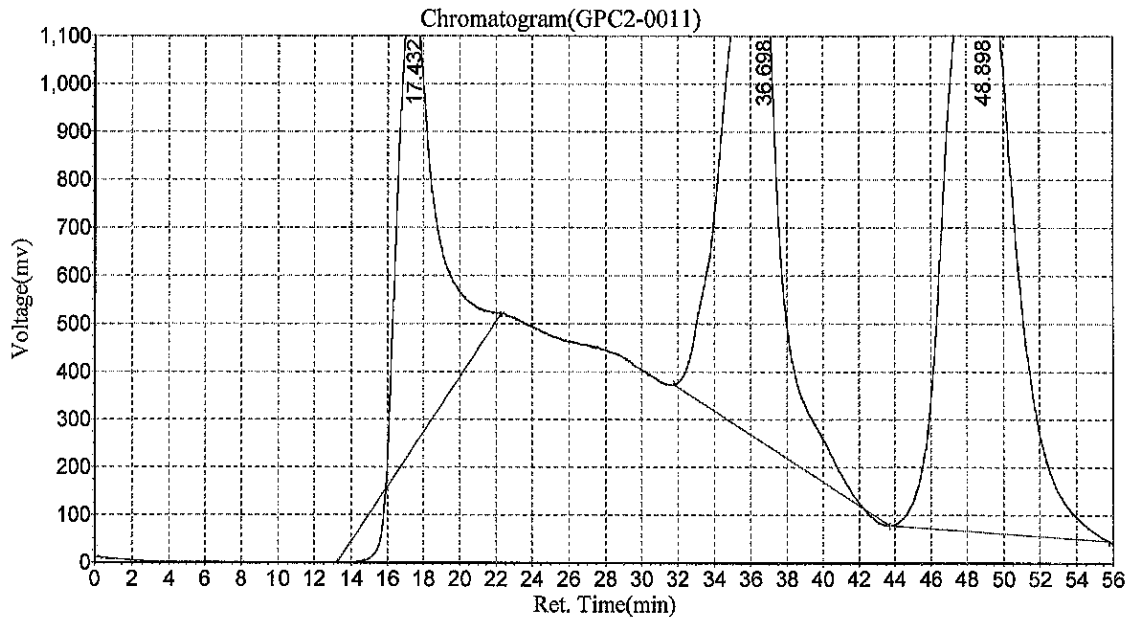
Ingredient Table

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

BLC0442/423/23A0179/180/23C0174

Date:2023-03-21,12:36:57 AM
 Data File:c:\n2000\data\gpc2\032023\GPC2-0011
 Method File:E:\GPC2_InHouse.mtd

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



Results

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

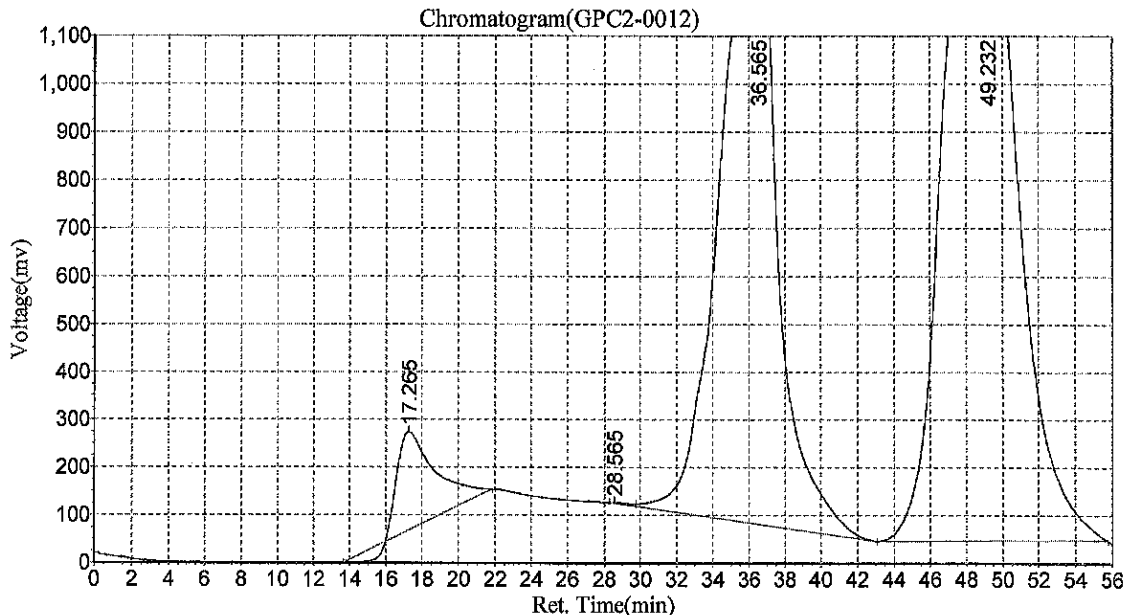
Ingredient Table

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

BLC0442/423/23A0179/180/23C0174

Date:2023-03-21,1:34:38 AM
 Data File:c:\n2000\data\gpc2\032023\GPC2-0012
 Method File:E:\GPC2_InHouse.mtd

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



Results

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

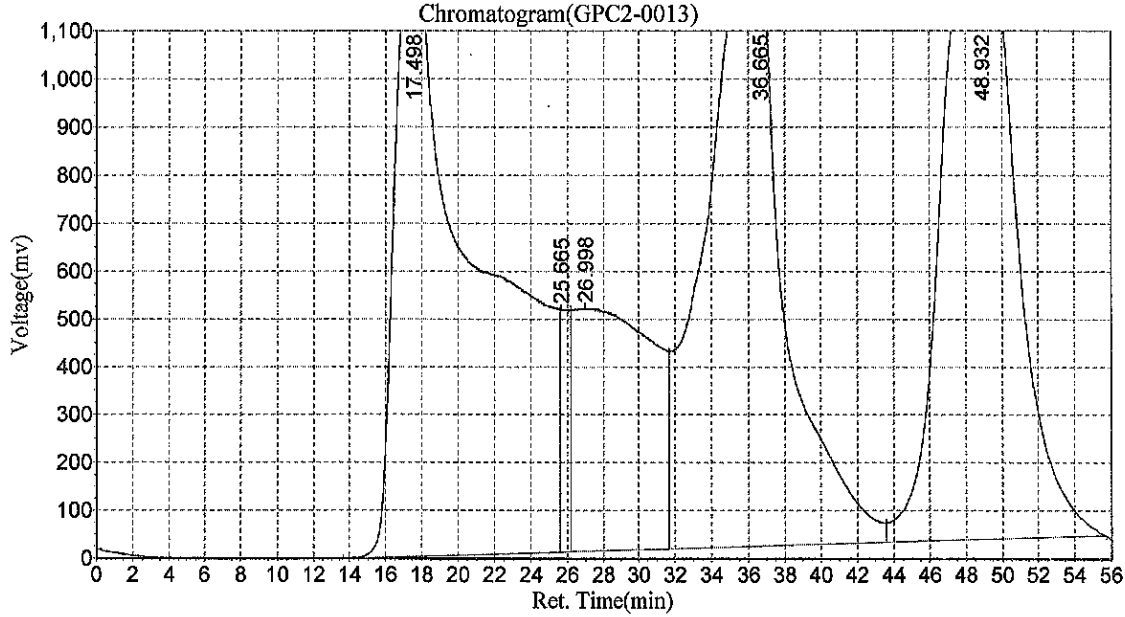
Ingredient Table

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

BLC0442/423/23A0179/180/23C0174 ⁻⁰⁸

Date:2023-03-21,2:32:26 AM
 Data File:c:\n2000\data\gpc2\032023\GPC2-0013
 Method File:E:\GPC2_InHouse.mtd

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



Results

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

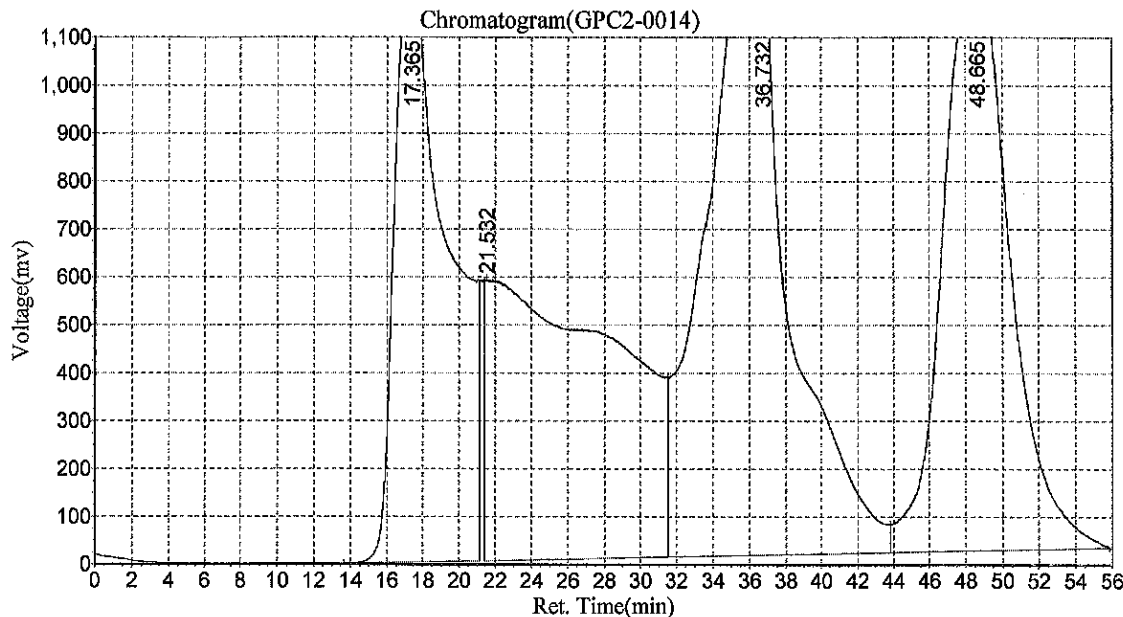
Ingredient Table

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

BLC0442/423/23A0179/180/23C0174

Date:2023-03-21,3:30:08 AM
 Data File:c:\n2000\data\gpc2\032023\GPC2-0014
 Method File:E:\GPC2_InHouse.mtd

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



Results

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

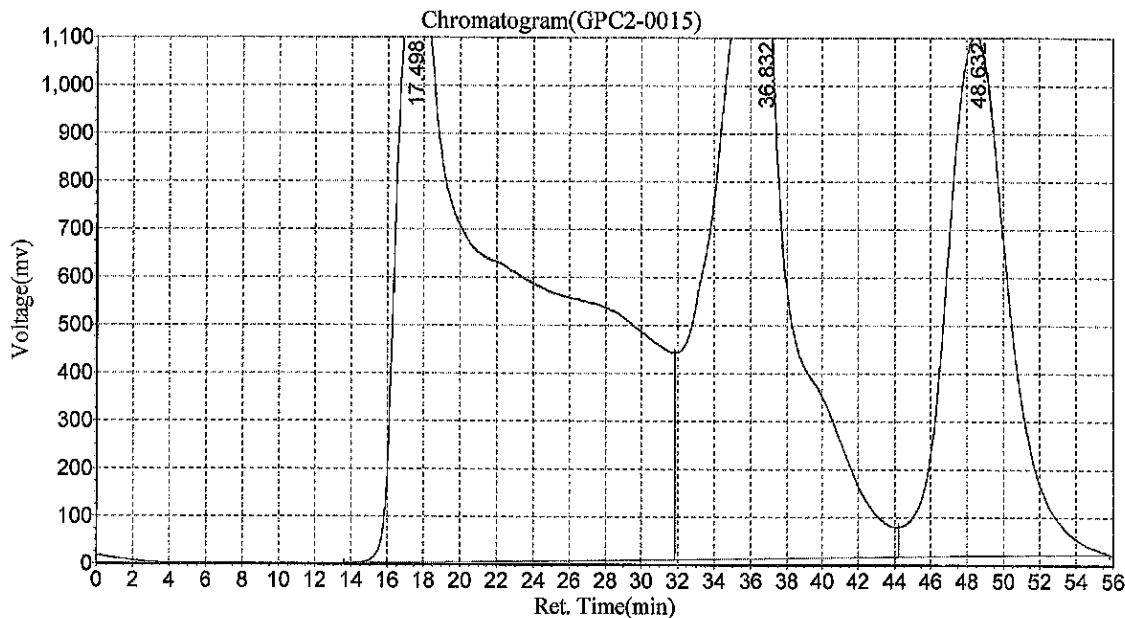
Ingredient Table

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

BLC0442/423/23A0179/180/23C0174 ¹⁰

Date:2023-03-21,4:27:51 AM
 Data File:c:\n2000\data\gpc2\032023\GPC2-0015
 Method File:E:\GPC2_InHouse.mtd

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



Results

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

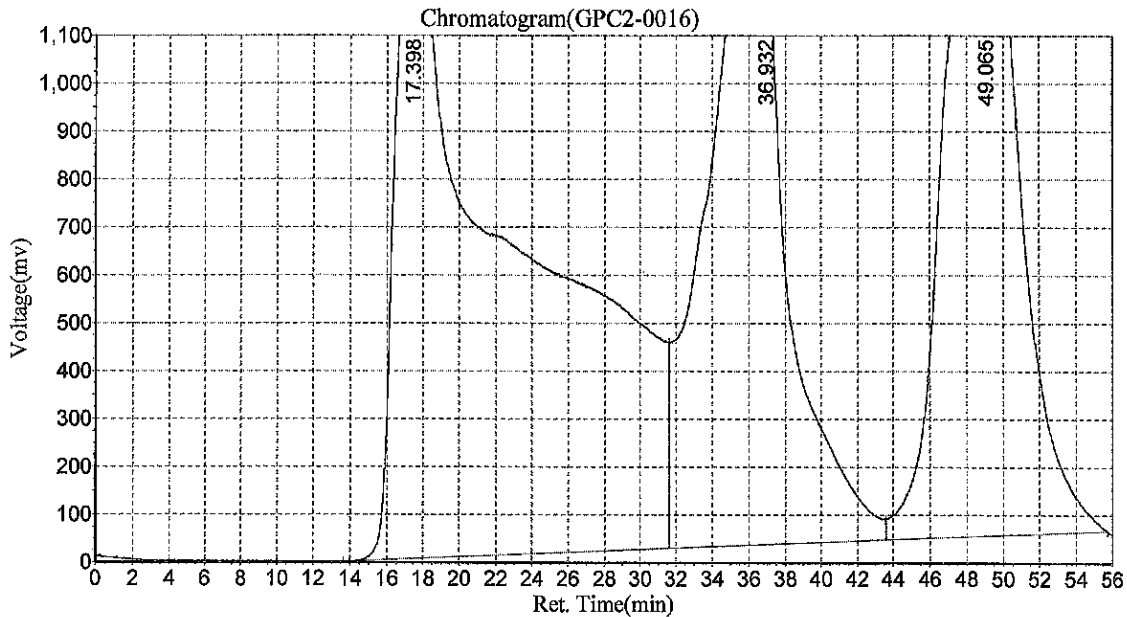
Ingredient Table

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

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

Date:2023-03-21,5:25:33 AM
 Data File:c:\n2000\data\gpc2\032023\GPC2-0016
 Method File:E:\GPC2_InHouse.mtd

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



Results

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

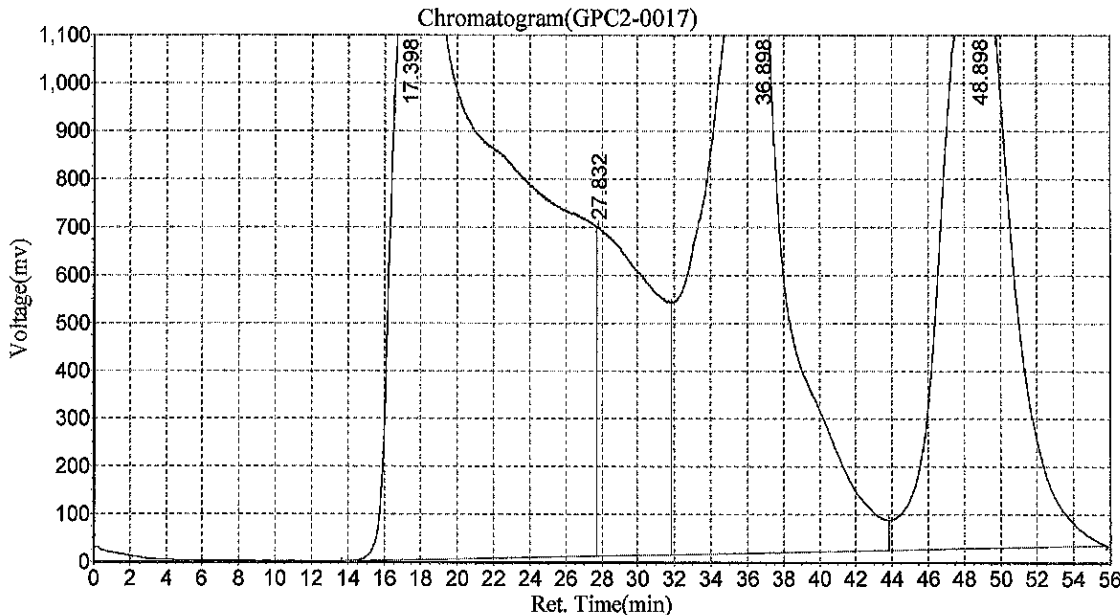
Ingredient Table

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

BLC0442/423/23A0179/180/23C0174

Date:2023-03-21,6:23:16 AM
 Data File:c:\n2000\data\gpc2\032023\GPC2-0017
 Method File:E:\GPC2_InHouse.mtd

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



Results

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

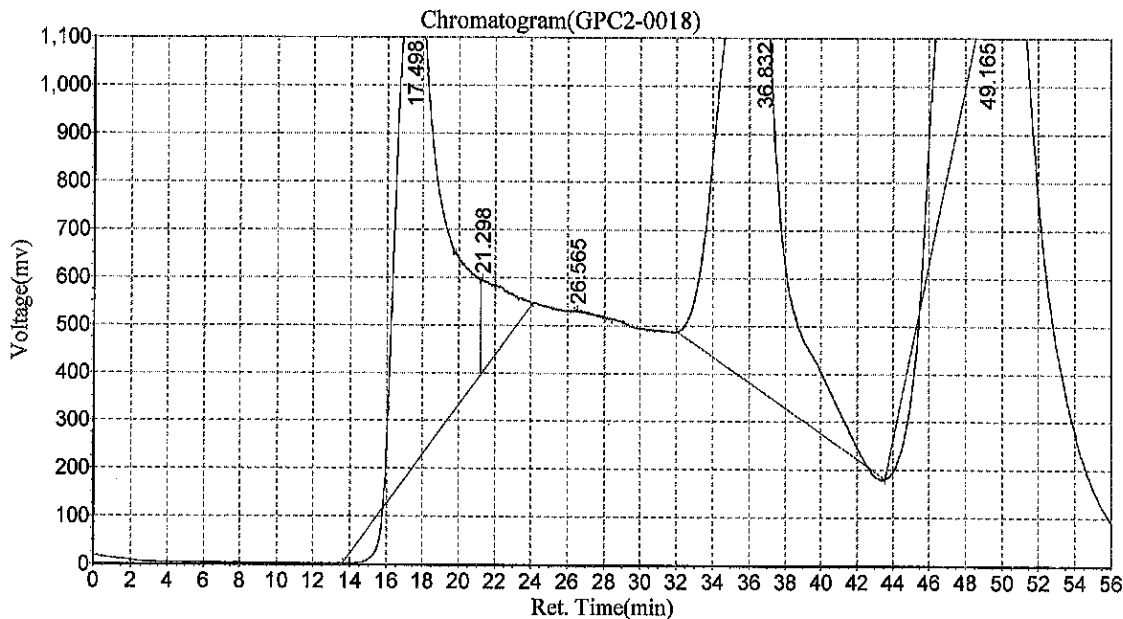
Ingredient Table

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

BLC0442/423/23A0179/180/23C0174

Date:2023-03-21,7:20:57 AM
 Data File:c:\n2000\data\gpc2\032023\GPC2-0018
 Method File:E:\GPC2_InHouse.mtd

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



Results

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

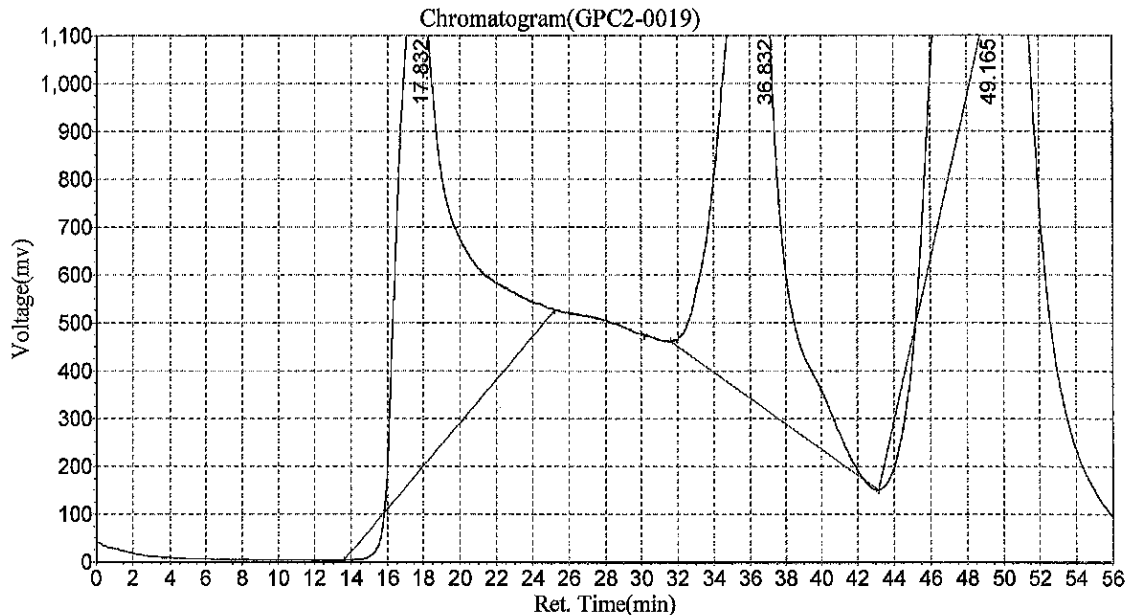
Ingredient Table

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

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

Date:2023-03-21,8:18:40 AM
Data File:c:\n2000\data\gpc2\032023\GPC2-0019
Method File:E:\GPC2_InHouse.mtd

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



Results

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

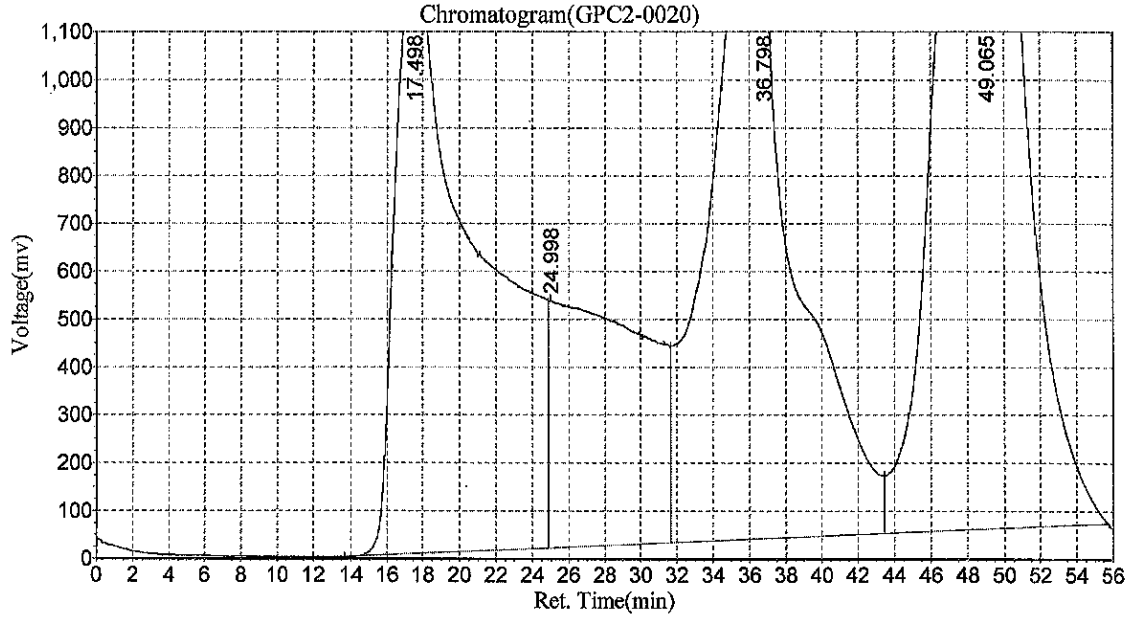
Ingredient Table

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

BLC0442/423/23A0179/180/23C0174

Date:2023-03-21,9:16:22 AM
Data File:c:\n2000\data\gpc2\032023\GPC2-0020
Method File:E:\GPC2_InHouse.mtd

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



Results

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

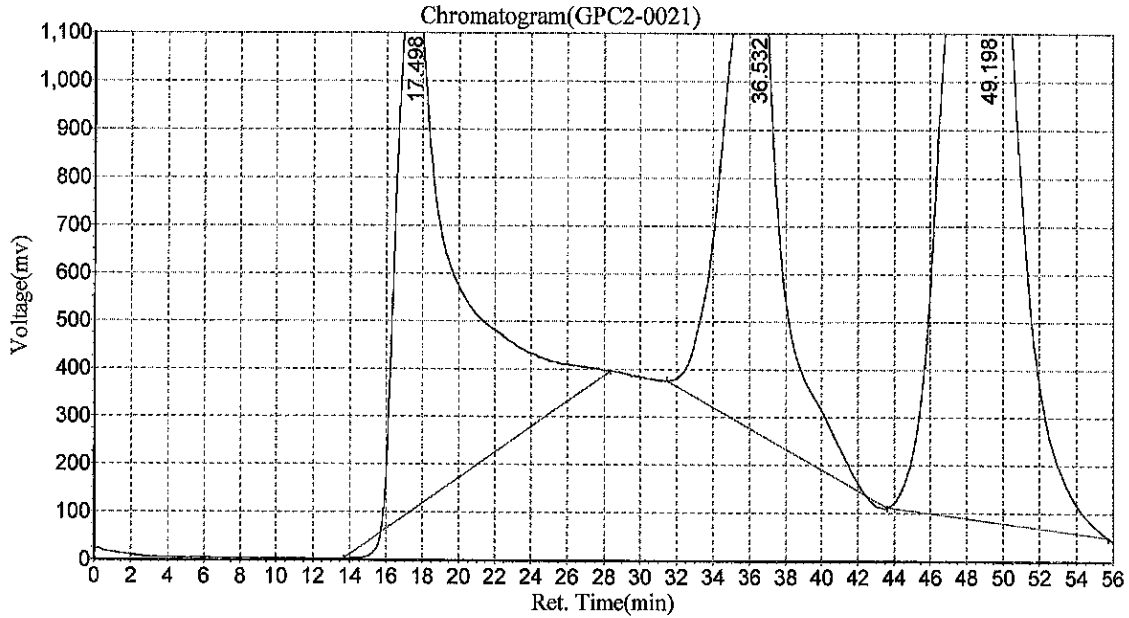
Ingredient Table

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

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

Date:2023-03-21,10:14:10 AM
Data File:c:\n2000\data\gpc2\032023\GPC2-0021
Method File:E:\GPC2_InHouse.mtd

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



Results

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

Ingredient Table

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



CLEANUP BATCH SUMMARY

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Cleanup Batch: CLB0033

Cleanup Type: GPC

Cleanup Method: EPA 3640A GPC Cleanup 1:1

Analysis: EPA 8270E

| SAMPLE NAME | LAB SAMPLE ID | LAB FILE ID | DATE PREPARED | OBSERVATIONS |
|-----------------|---------------|----------------|---------------|--------------|
| LDW23-SC1164 | 23A0180-01 | NT1423022844.D | 02/05/2023 | |
| LDW23-SC1158 | 23A0180-03 | NT1423022846.D | 02/05/2023 | |
| LDW23-SC1151 | 23A0180-04 | NT1423022847.D | 02/05/2023 | |
| Reference | BLA0557-SRM1 | NT1423022829.D | 02/05/2023 | |
| LCS Dup | BLA0557-BSD1 | NT1423022828.D | 02/05/2023 | |
| LDW23-SC1164-FD | 23A0180-02 | NT1423022845.D | 02/05/2023 | |
| Blank | BLA0557-BLK1 | NT1423022826.D | 02/05/2023 | |
| LCS | BLA0557-BS1 | NT1423022827.D | 02/05/2023 | |



CLEANUP BENCH SHEET

CLB0033

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

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



CLEANUP BENCH SHEET

CLB0033

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

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



CLEANUP BENCH SHEET

CLB0033

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

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



CLEANUP BATCH SUMMARY

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Cleanup Batch: CLC0186

Cleanup Type: GPC

Cleanup Method: EPA 3640A GPC Cleanup 1:1

Analysis: EPA 8270E

| SAMPLE NAME | LAB SAMPLE ID | LAB FILE ID | DATE PREPARED | OBSERVATIONS |
|-----------------|---------------|----------------|---------------|--------------|
| Blank | BLC0442-BLK1 | NT1003222306.D | 03/21/2023 | |
| LCS | BLC0442-BS1 | NT1003222307.D | 03/21/2023 | |
| LDW23-SC1151 | 23A0180-04RE1 | NT1003222332.D | 03/21/2023 | |
| LDW23-SC1158 | 23A0180-03RE1 | NT1003222331.D | 03/21/2023 | |
| LDW23-SC1164-FD | 23A0180-02RE1 | NT1003222330.D | 03/21/2023 | |
| LDW23-SC1164 | 23A0180-01RE1 | NT1003222329.D | 03/21/2023 | |
| LCS Dup | BLC0442-BSD1 | NT1003222308.D | 03/21/2023 | |
| Reference | BLC0442-SRM1 | NT1003222309.D | 03/21/2023 | |



CLEANUP BENCH SHEET

CLC0186

Matrix: Solid

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

Check Standard: CLB0132-GPC2

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

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



CLEANUP BENCH SHEET

CLC0186

Matrix: Solid

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

Check Standard: CLB0132-GPC2

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

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



CLEANUP BENCH SHEET

CLC0186

Matrix: Solid

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

Check Standard: CLB0132-GPC2

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

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



Form I
METHOD BLANK DATA SHEET
EPA 8270E

Blank

Laboratory: Analytical Resources, LLC SDG: 23A0180
 Client: Anchor QEA, LLC Project: AOC5 MR Phase 1
 Matrix: Solid Laboratory ID: BLA0557-BLK1 File ID: NT1423022826.D
 Sampled: N/A Prepared: 01/25/23 14:20 Analyzed: 03/01/23 16:40
 Solids: Preparation: EPA 3546 (Microwave) Initial/Final: 10 g / 1 mL
 Batch: BLA0557 Sequence: SLB0374 Calibration: GC00033
 Instrument: NT14 Column: ZB-5MS Cleanups: GPC

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

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

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Date: 01-HRR-2023 16:40

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Sample Info: BLR0557-BLK1

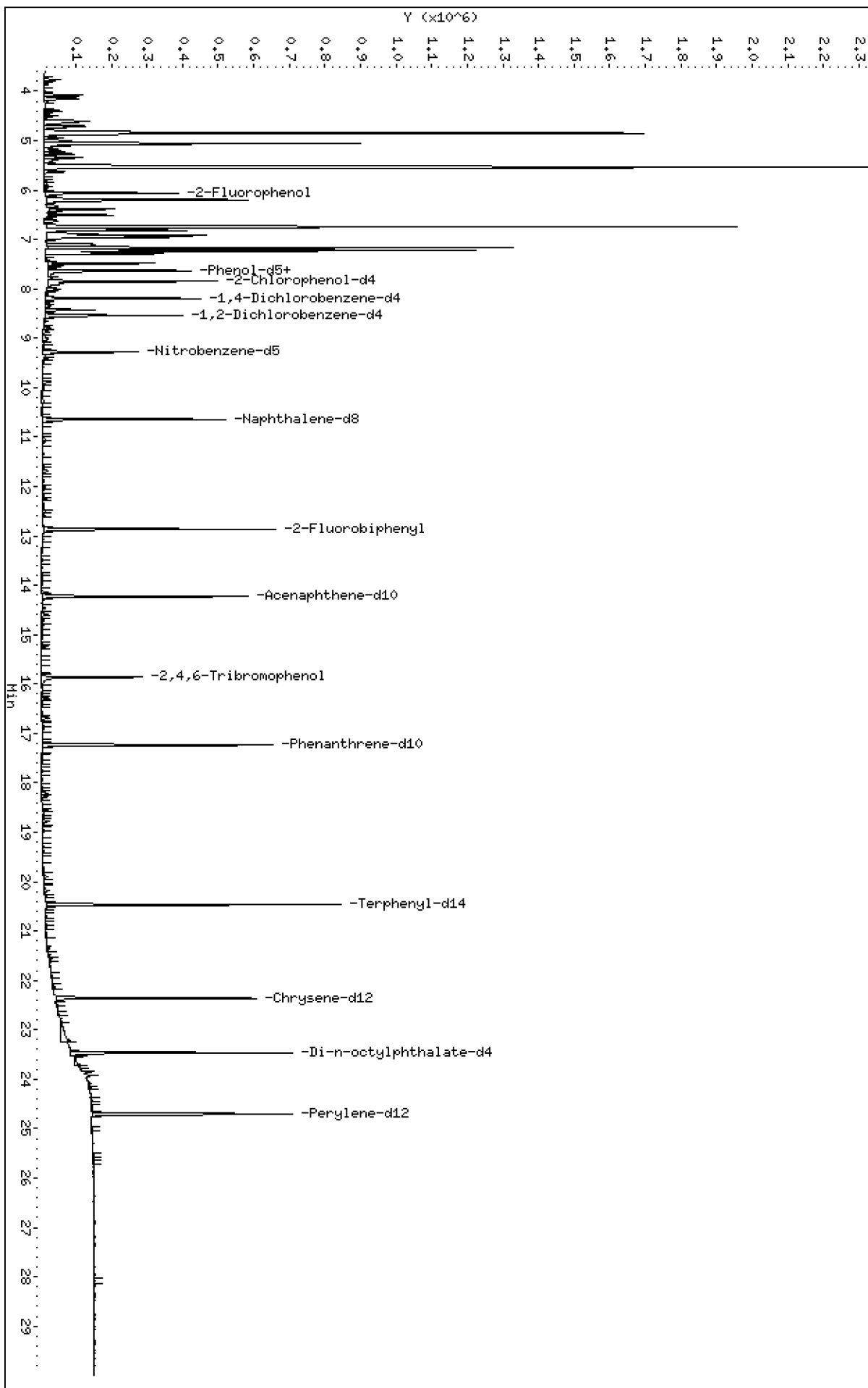
Column phase: ZB-5msi

Instrument: nt14,1

Operator: JGR

Column diameter: 0.25

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Date : 01-MAR-2023 16:40

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BLK1

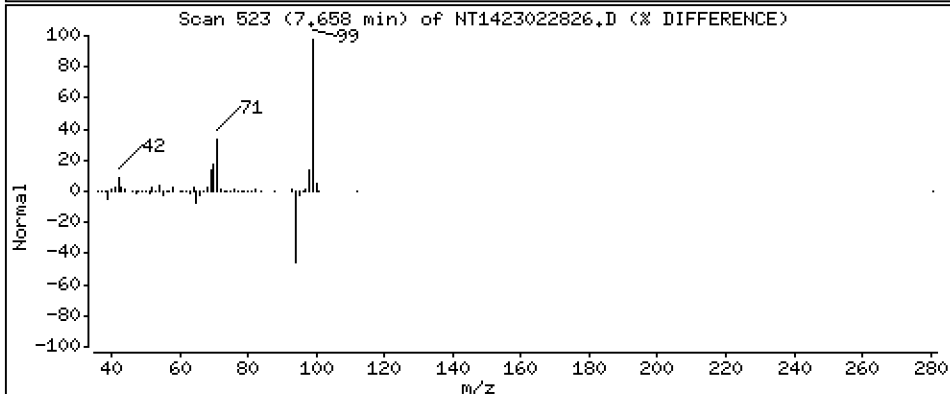
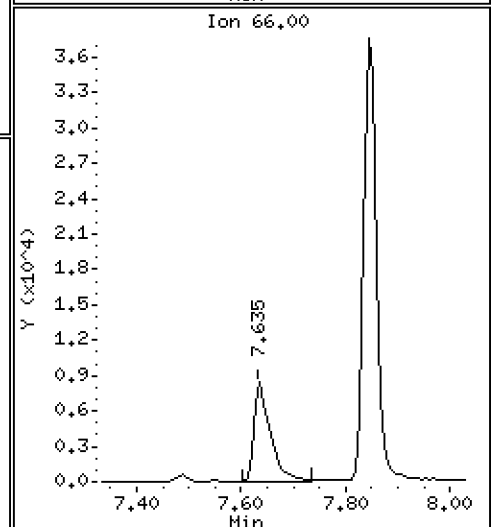
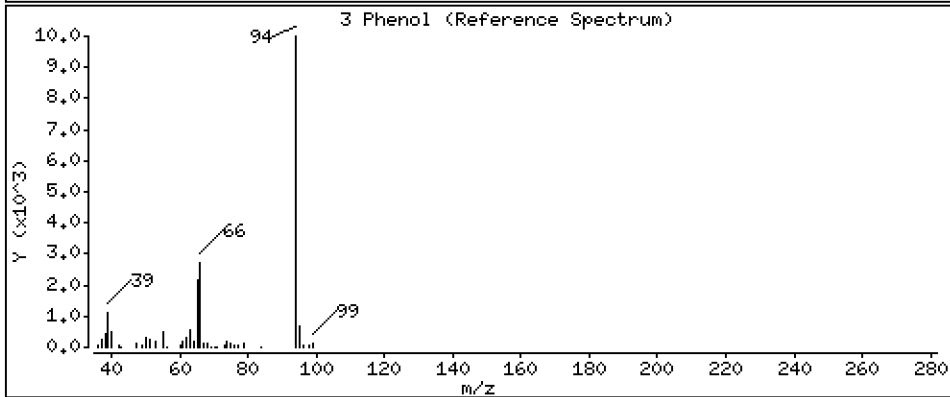
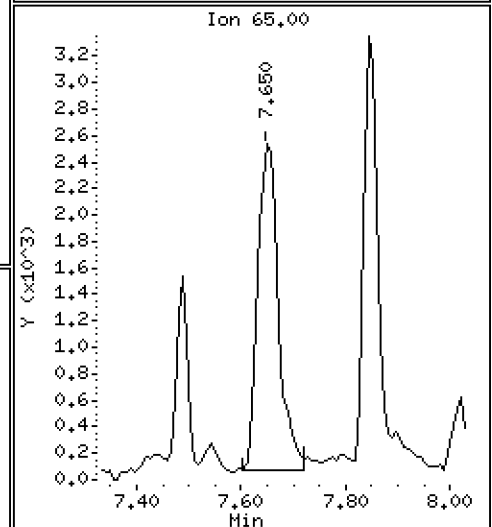
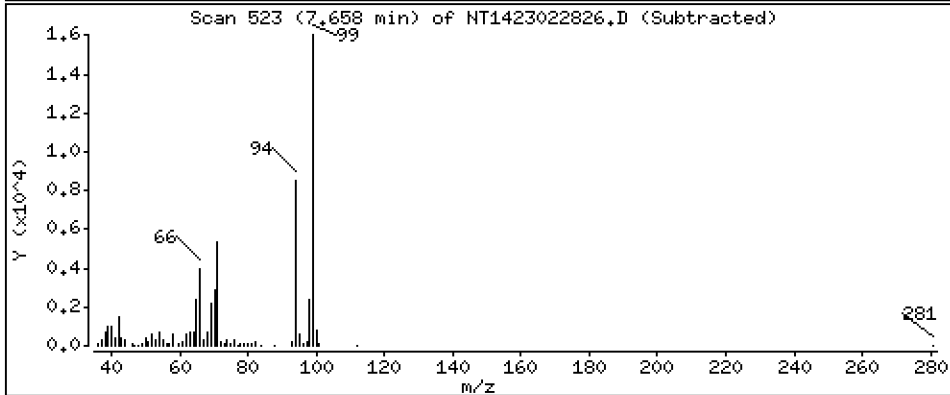
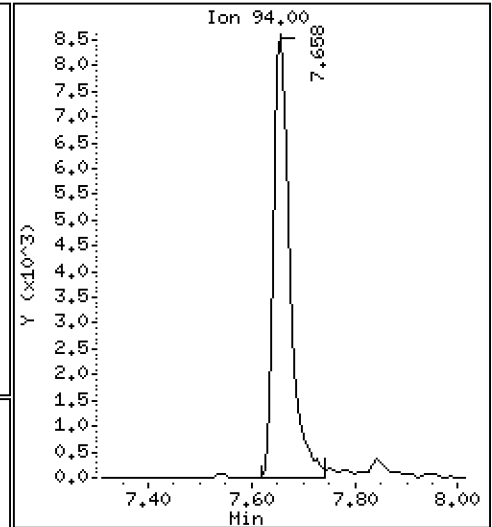
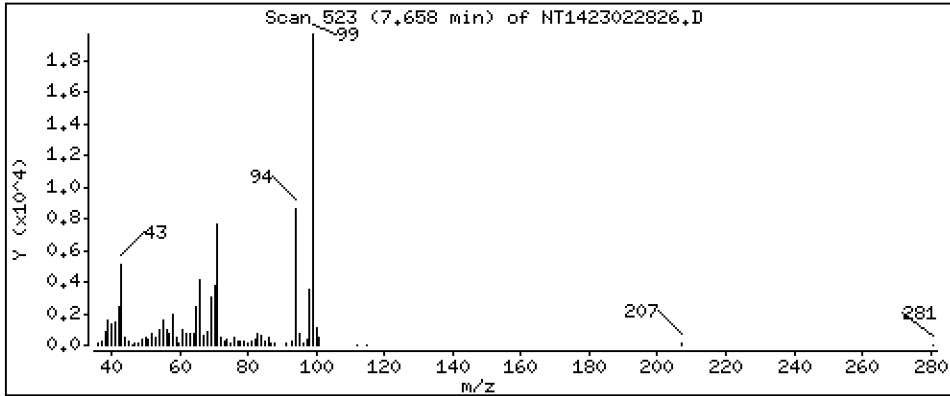
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 0,3314 ug/mL



Date : 01-MAR-2023 16:40

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BLK1

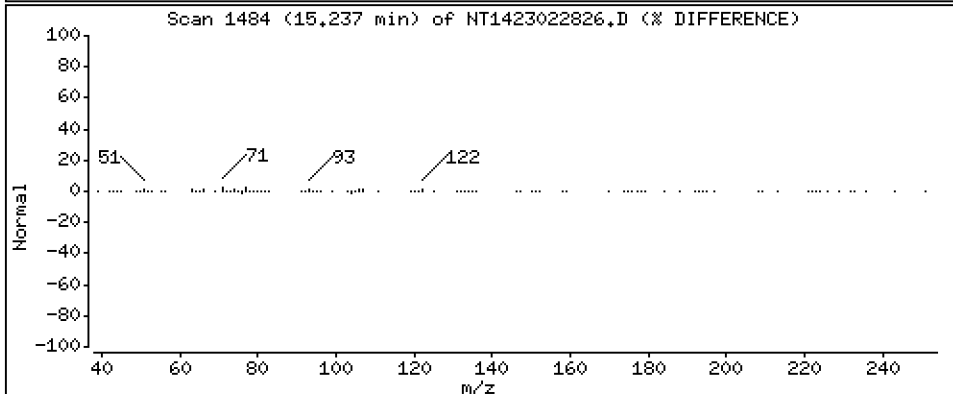
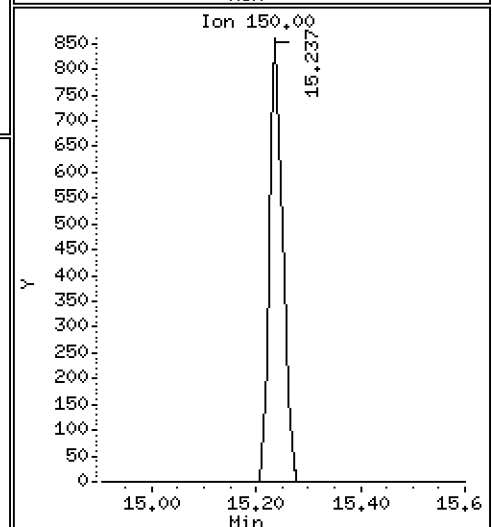
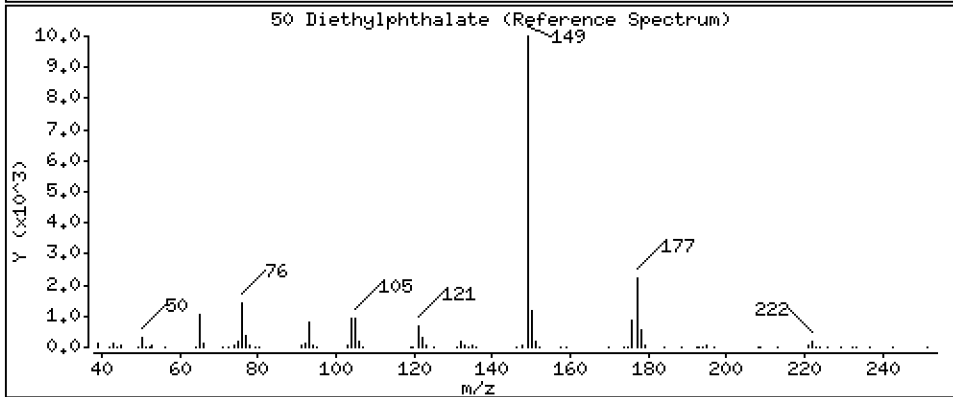
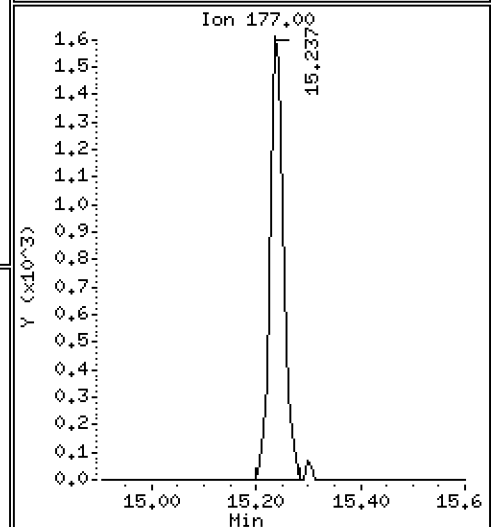
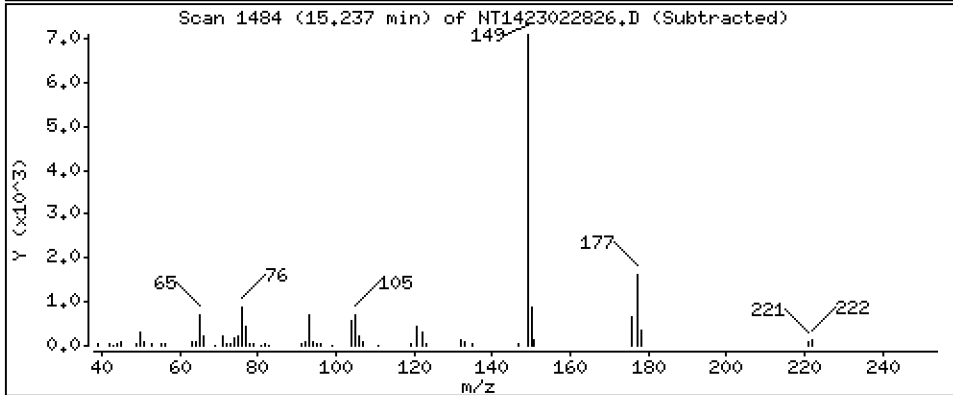
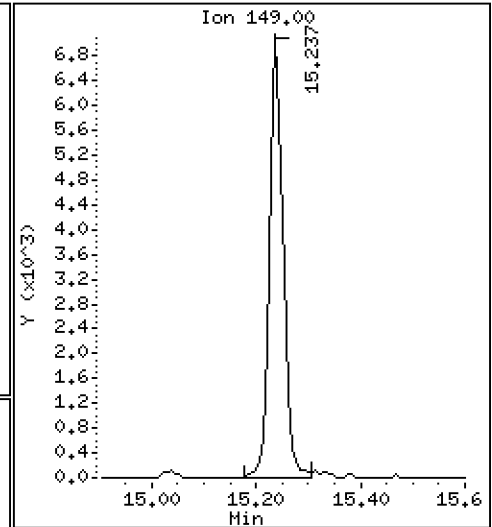
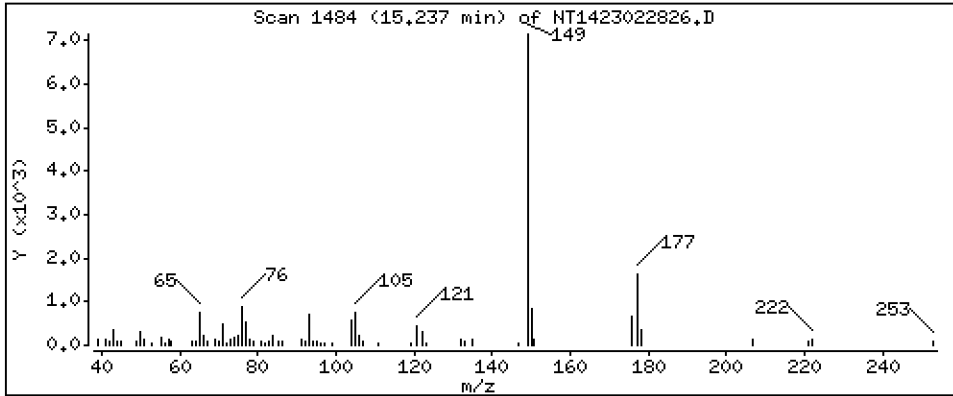
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

50 Diethylphthalate

Concentration: 0.1728 ug/mL



Date : 01-MAR-2023 16:40

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BLK1

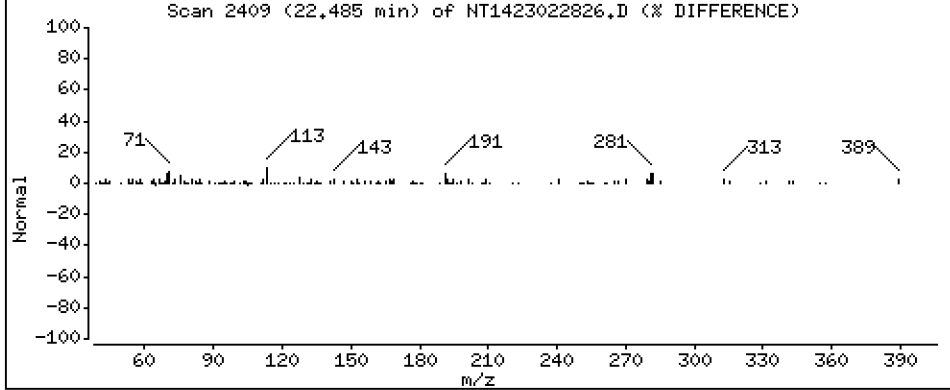
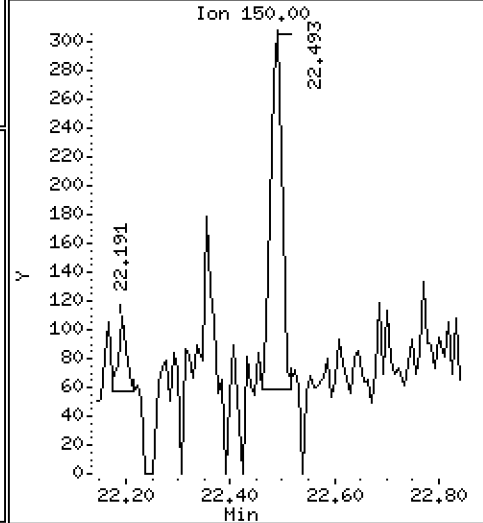
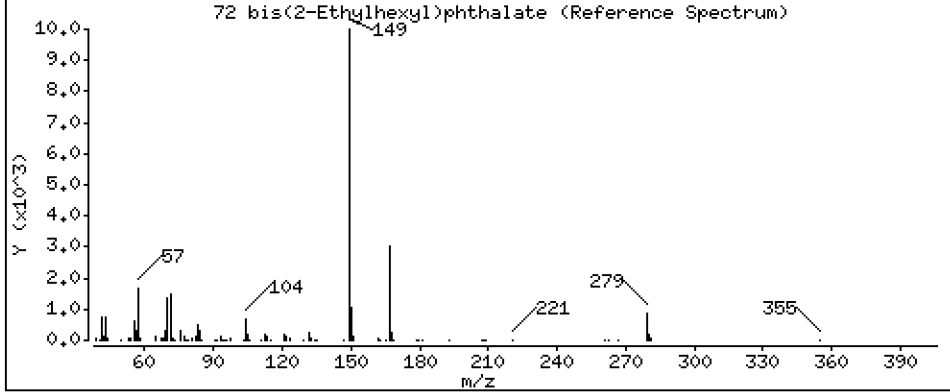
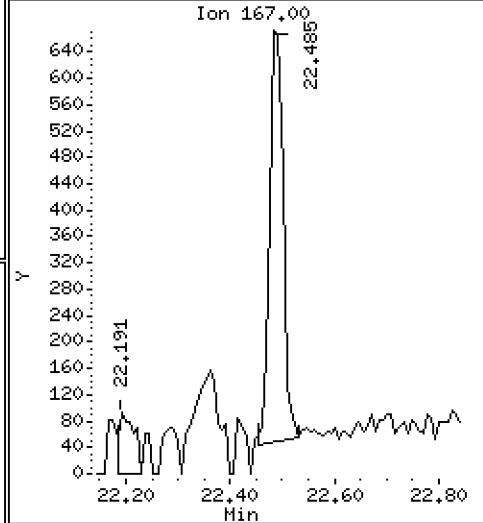
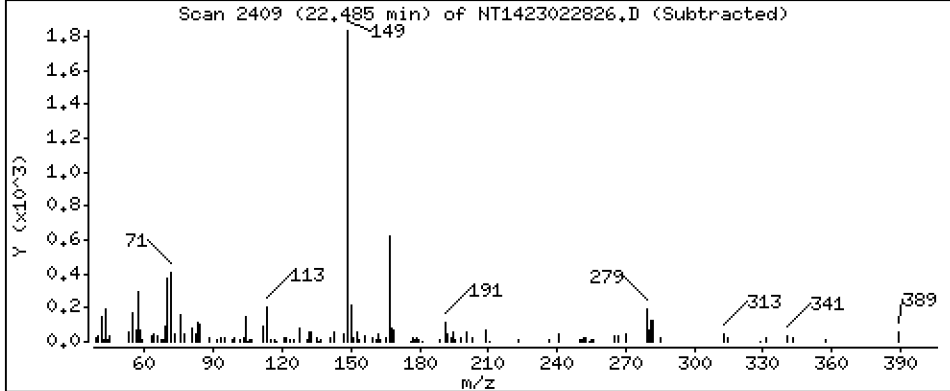
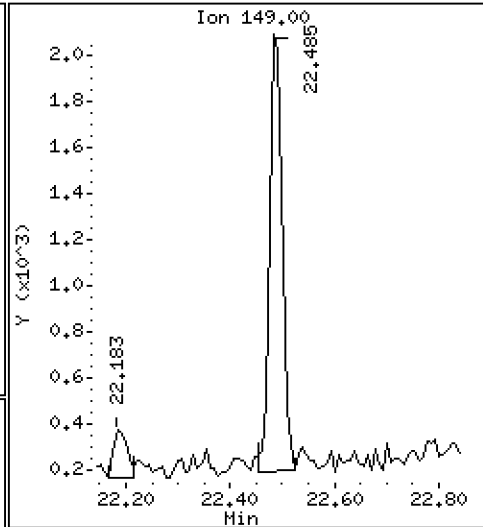
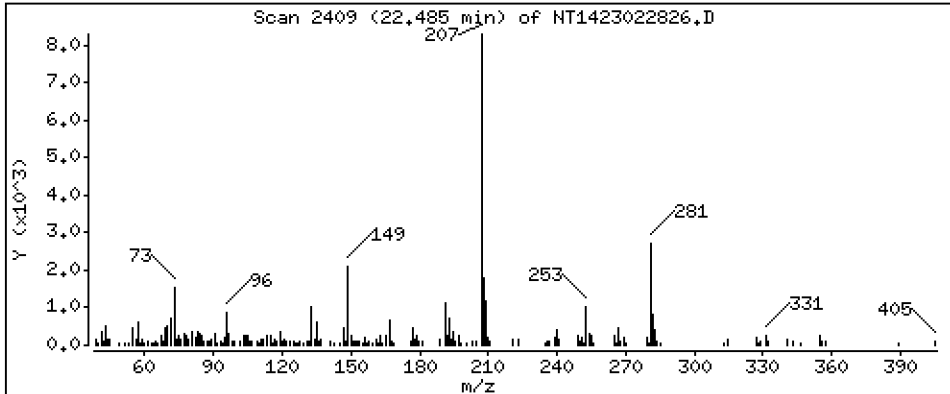
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 0,04083 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230228.b\NT1423022826.D
 Lab Smp Id: BLA0557-BLK1
 Inj Date : 01-MAR-2023 16:40 MS Autotune Date: 17-MAY-2011 01:22
 Operator : JGR Inst ID: nt14.i
 Smp Info : BLA0557-BLK1
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt14.i\20230228.b\ABN.m
 Meth Date : 11-Mar-2023 09:11 van Quant Type: ISTD
 Cal Date : 28-FEB-2023 15:16 Cal File: NT1423022808.D
 Als bottle: 18
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: ICAL.sub
 Target Version: 4.14
 Processing Host: VANS-201906

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

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

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

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

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

Test Mode:
 Use Last Continuing Calibrator.

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

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

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

REVIEW SUMMARY FOR FILE - NT1423022826.D

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

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

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

NONE

RRT check based on Ccal File: NT1423022821.D

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

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



Form I
METHOD BLANK DATA SHEET
EPA 8270E

Blank

| | | |
|--|--|-----------------------------------|
| Laboratory: <u>Analytical Resources, LLC</u> | SDG: <u>23A0180</u> | |
| Client: <u>Anchor QEA, LLC</u> | Project: <u>AOC5 MR Phase 1</u> | |
| Matrix: <u>Solid</u> | Laboratory ID: <u>BLC0442-BLK1</u> | File ID: <u>NT1003222306.D</u> |
| Sampled: <u>N/A</u> | Prepared: <u>03/17/23 11:16</u> | Analyzed: <u>03/22/23 20:16</u> |
| Solids: | Preparation: <u>EPA 3546 (Microwave)</u> | Initial/Final: <u>10 g / 1 mL</u> |
| Batch: <u>BLC0442</u> | Sequence: <u>SLC0397</u> | Calibration: <u>GC00046</u> |
| Instrument: <u>NT10</u> | Column: <u>ZB-5MSi</u> | Cleanups: <u>GPC</u> |

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

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

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

Date: 22-MAR-2023 20:16

Client ID:

Sample Info: BLC0442-BLK1

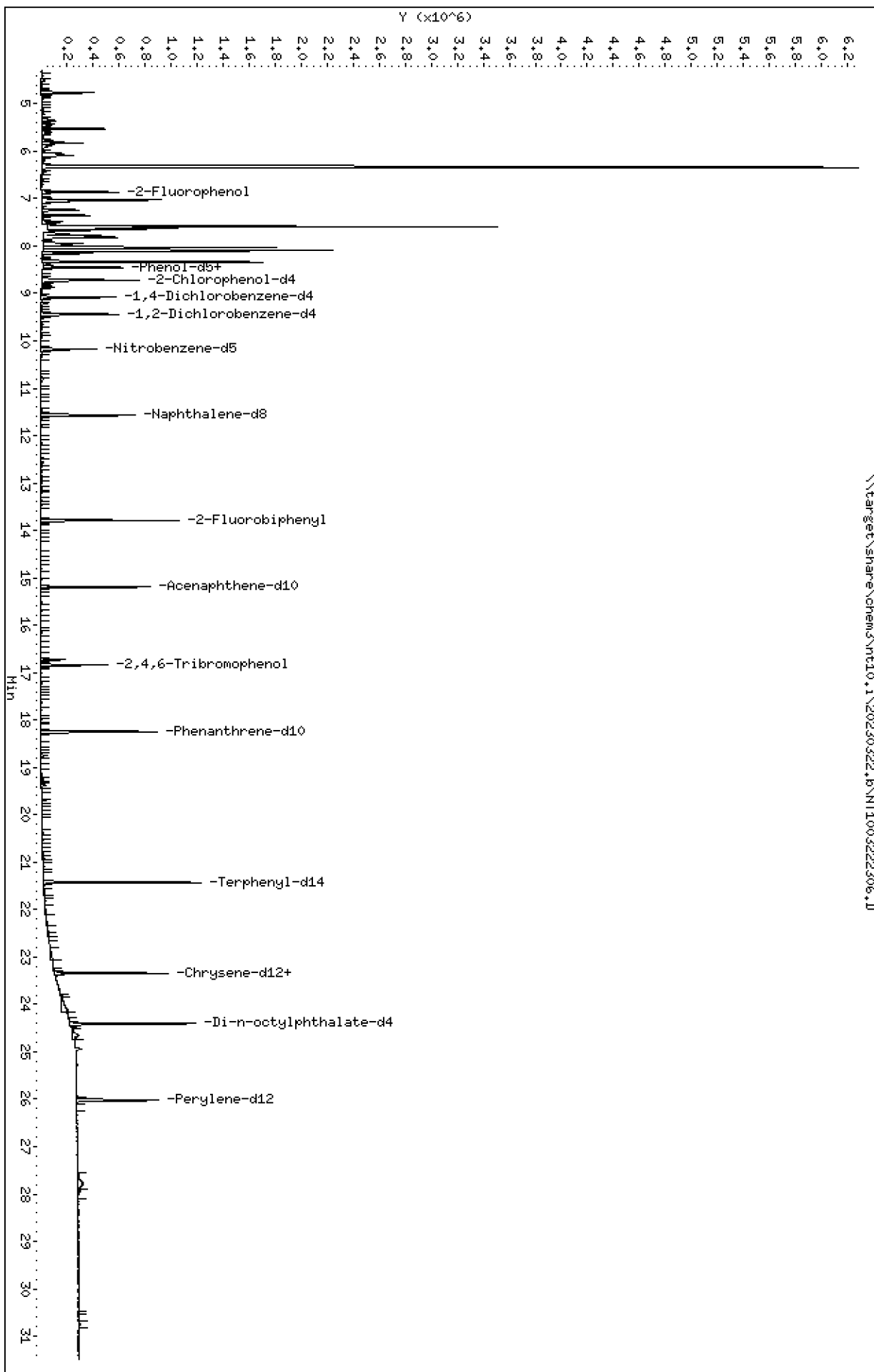
Column phase: ZB-5msi

Instrument: nt10.1

Operator: VTS

Column diameter: 0.25

Page 1



Date : 22-MAR-2023 20:16

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BLK1

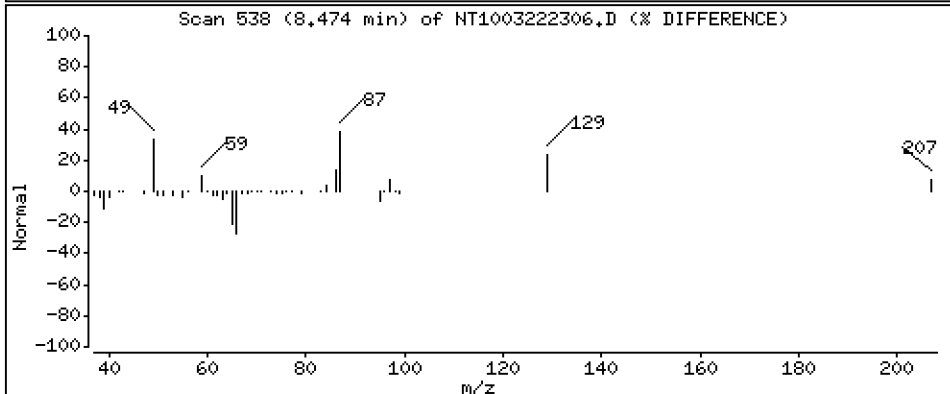
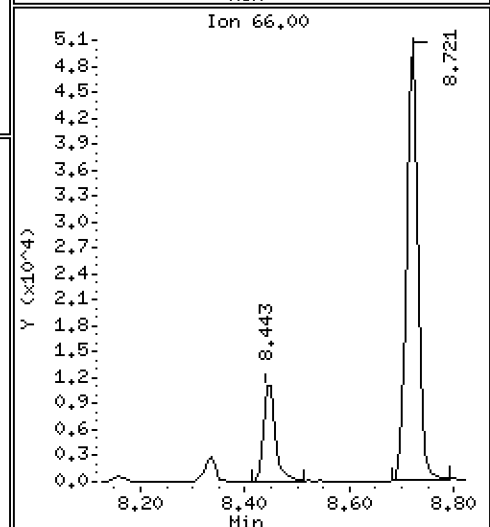
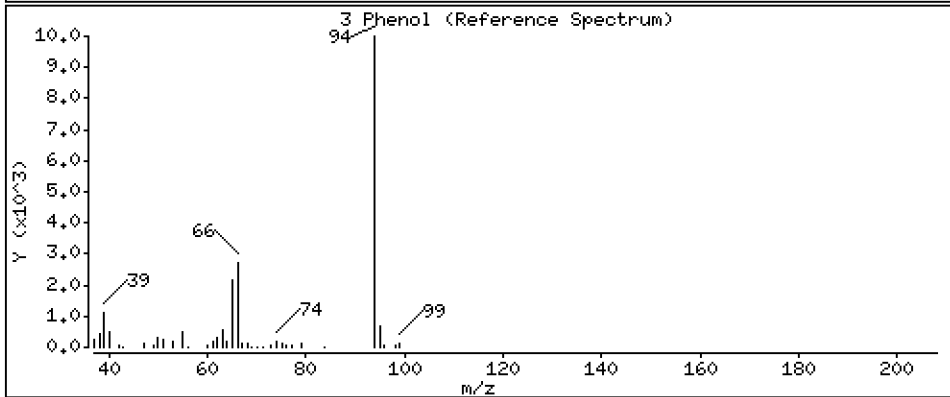
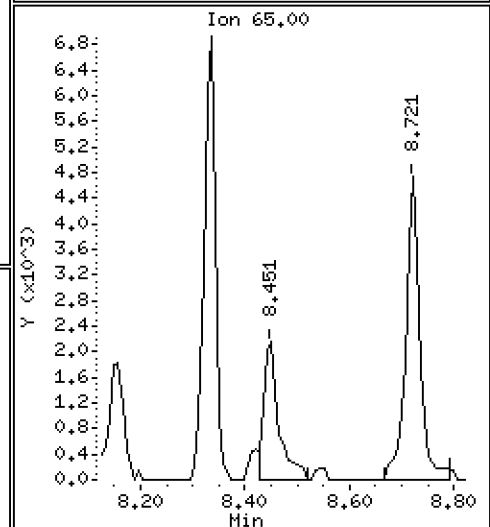
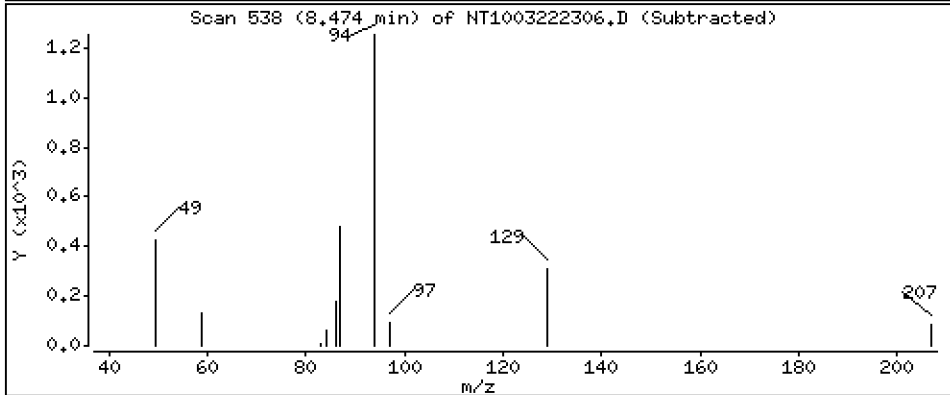
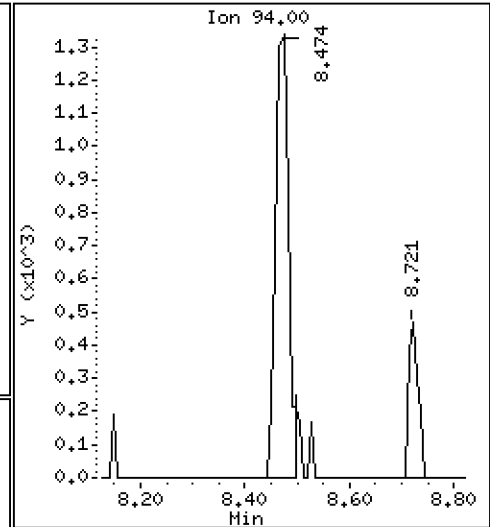
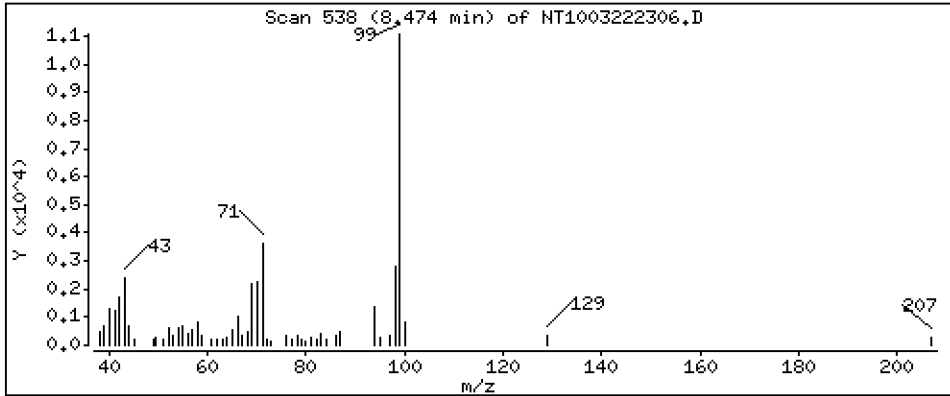
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 0,03230 ug/mL



Date : 22-MAR-2023 20:16

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BLK1

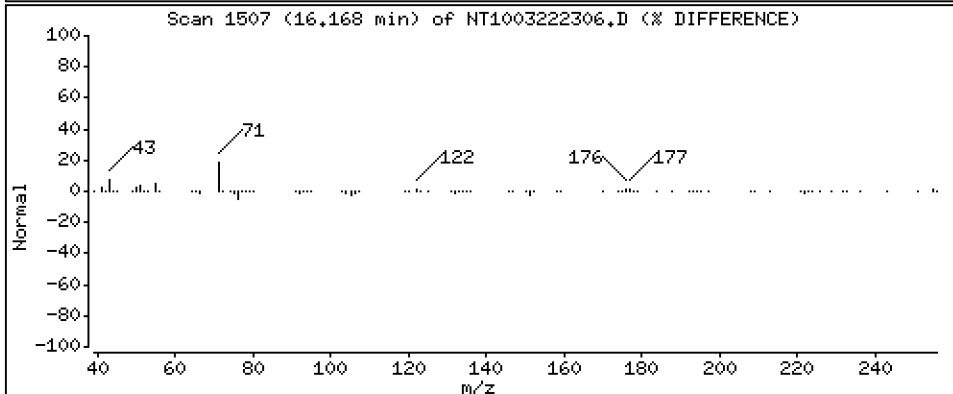
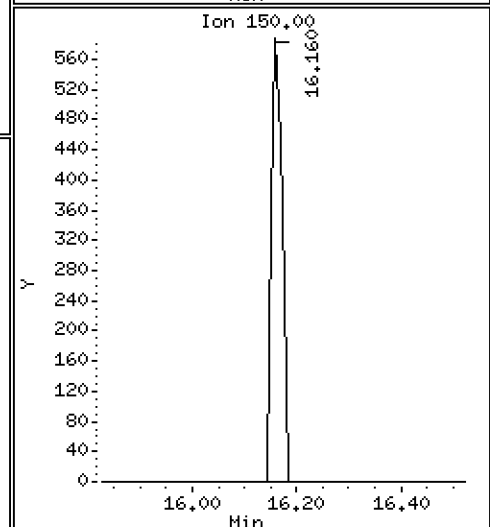
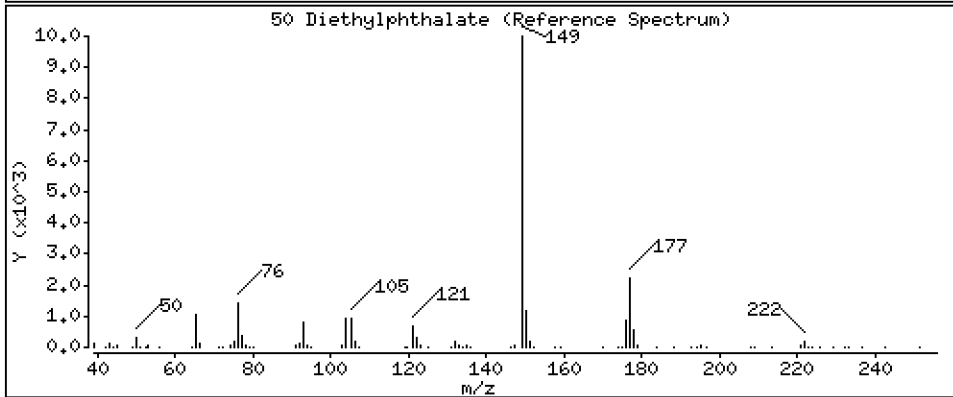
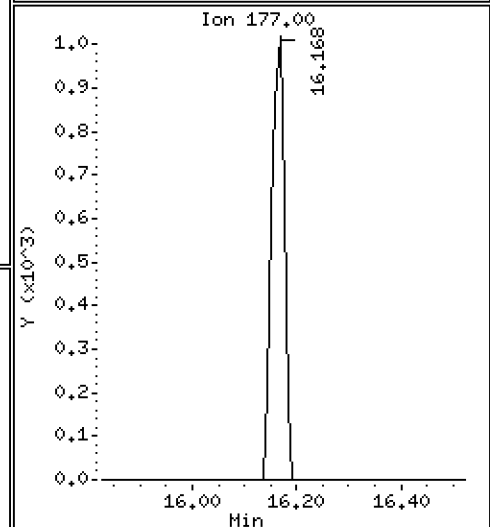
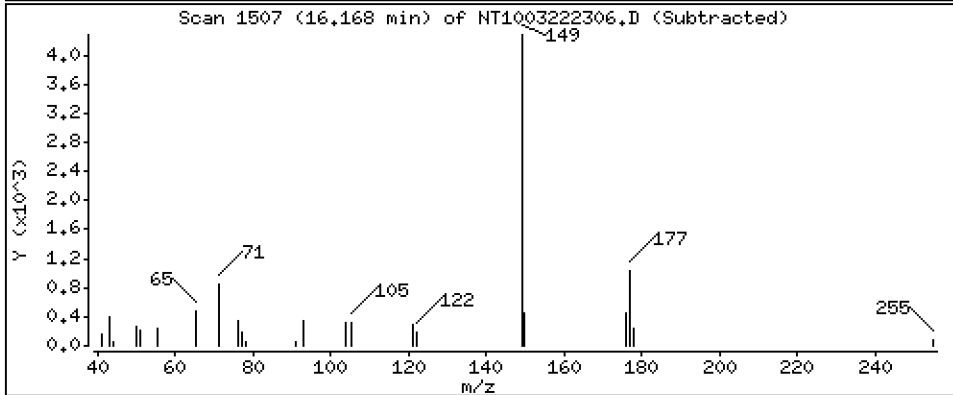
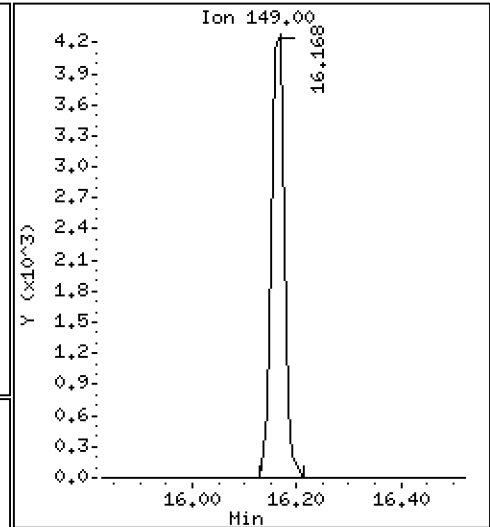
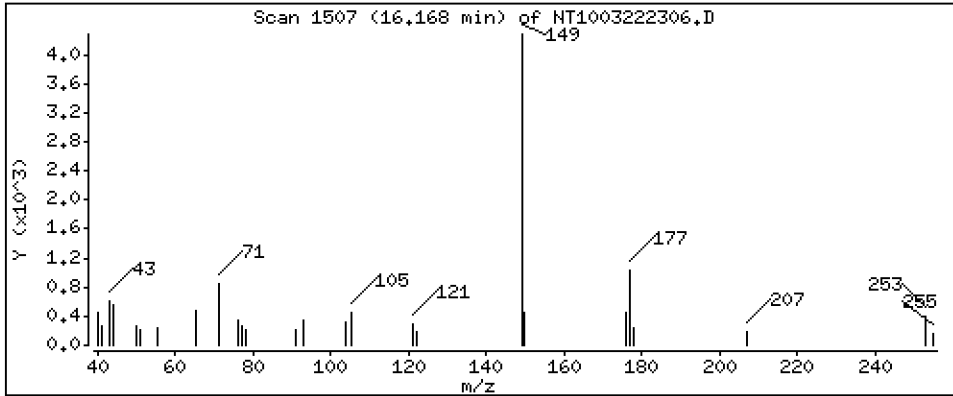
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 0,08070 ug/mL



Date : 22-MAR-2023 20:16

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BLK1

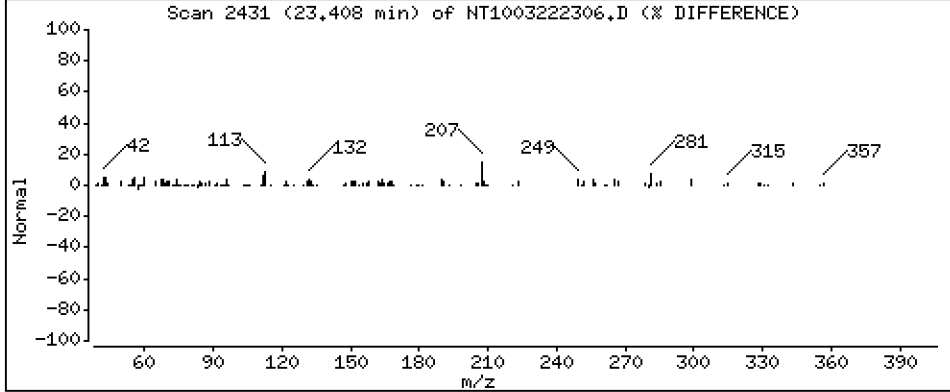
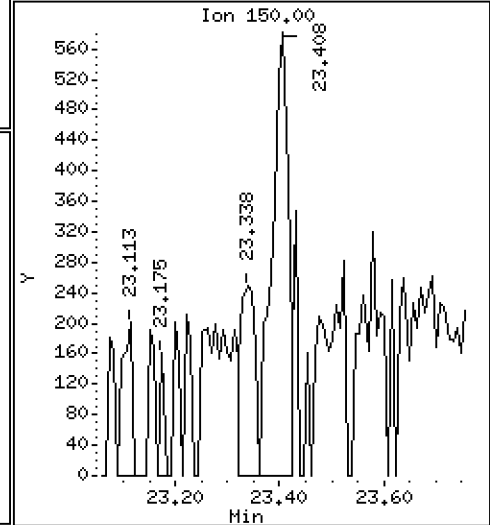
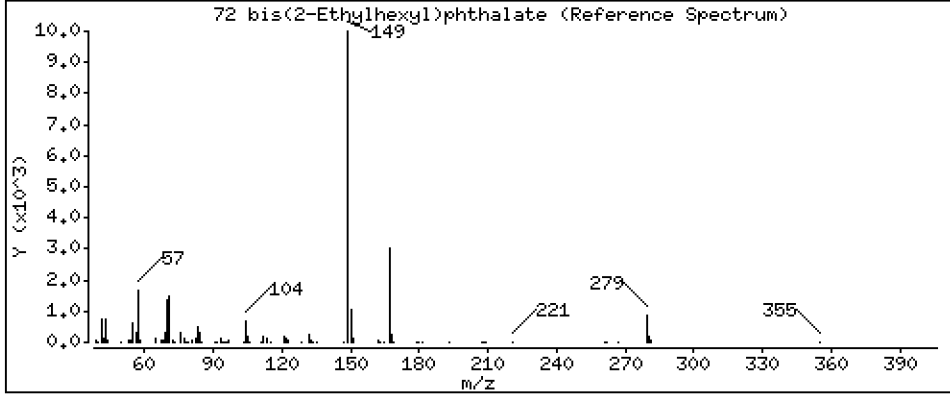
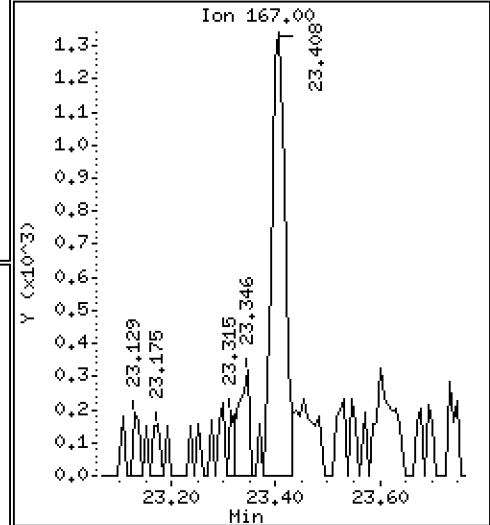
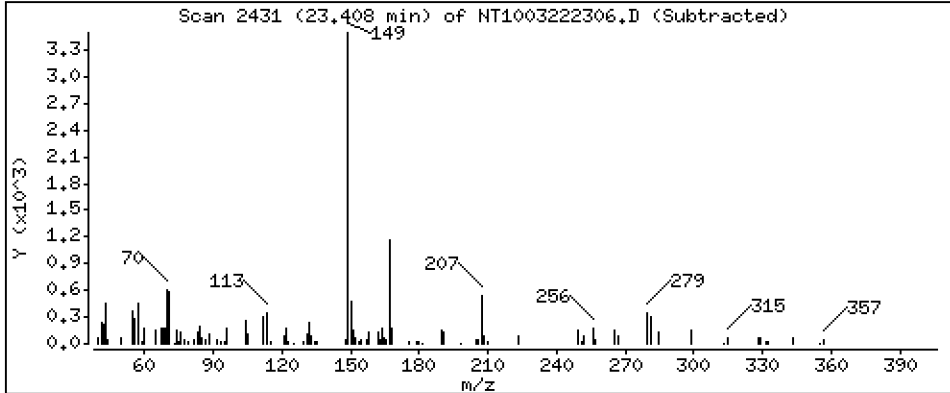
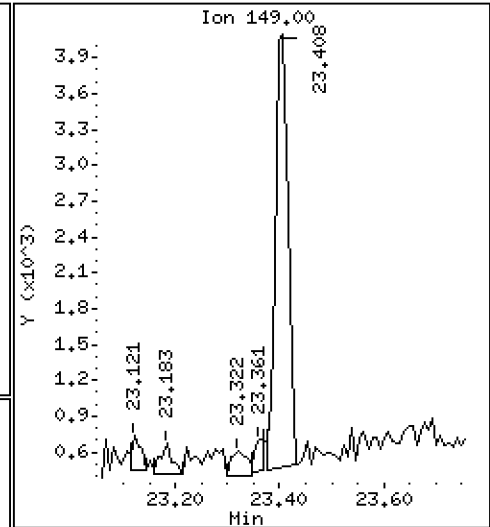
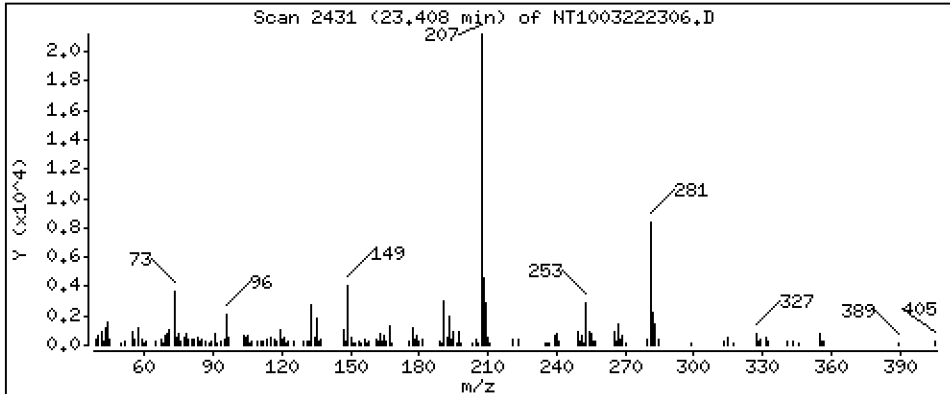
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 0,05319 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

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

Inst ID: nt10.i

Quant Type: ISTD
 Cal File: NT10031508.D

Compound Sublist: ICAL.sub

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

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

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

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

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

Test Mode:
 Use Last Continuing Calibrator.

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

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

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

REVIEW SUMMARY FOR FILE - NT1003222306.D

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

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

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

NONE

RRT check based on Ccal File: NT1003222302.D

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

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



Form I
METHOD BLANK DATA SHEET
EPA 8270E

| |
|-------|
| Blank |
|-------|

| | | | |
|-------------|----------------------------------|----------------|-----------------------------|
| Laboratory: | <u>Analytical Resources, LLC</u> | SDG: | <u>23A0180</u> |
| Client: | <u>Anchor QEA, LLC</u> | Project: | <u>AOC5 MR Phase 1</u> |
| Matrix: | <u>Solid</u> | Laboratory ID: | <u>BLC0442-BLK3</u> |
| Sampled: | <u>N/A</u> | Prepared: | <u>03/17/23 11:16</u> |
| Solids: | | Preparation: | <u>EPA 3546 (Microwave)</u> |
| Batch: | <u>BLC0442</u> | Sequence: | <u>SLC0397</u> |
| Instrument: | <u>NT10</u> | Column: | <u>ZB-5MSi</u> |
| | | File ID: | <u>NT1003222321.D</u> |
| | | Analyzed: | <u>03/23/23 05:46</u> |
| | | Initial/Final: | <u>10 g / 1 mL</u> |
| | | Calibration: | <u>GC00046</u> |

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

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

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

Date: 23-MAR-2023 05:46

Client ID:

Sample Info: BLC0442-BLK3

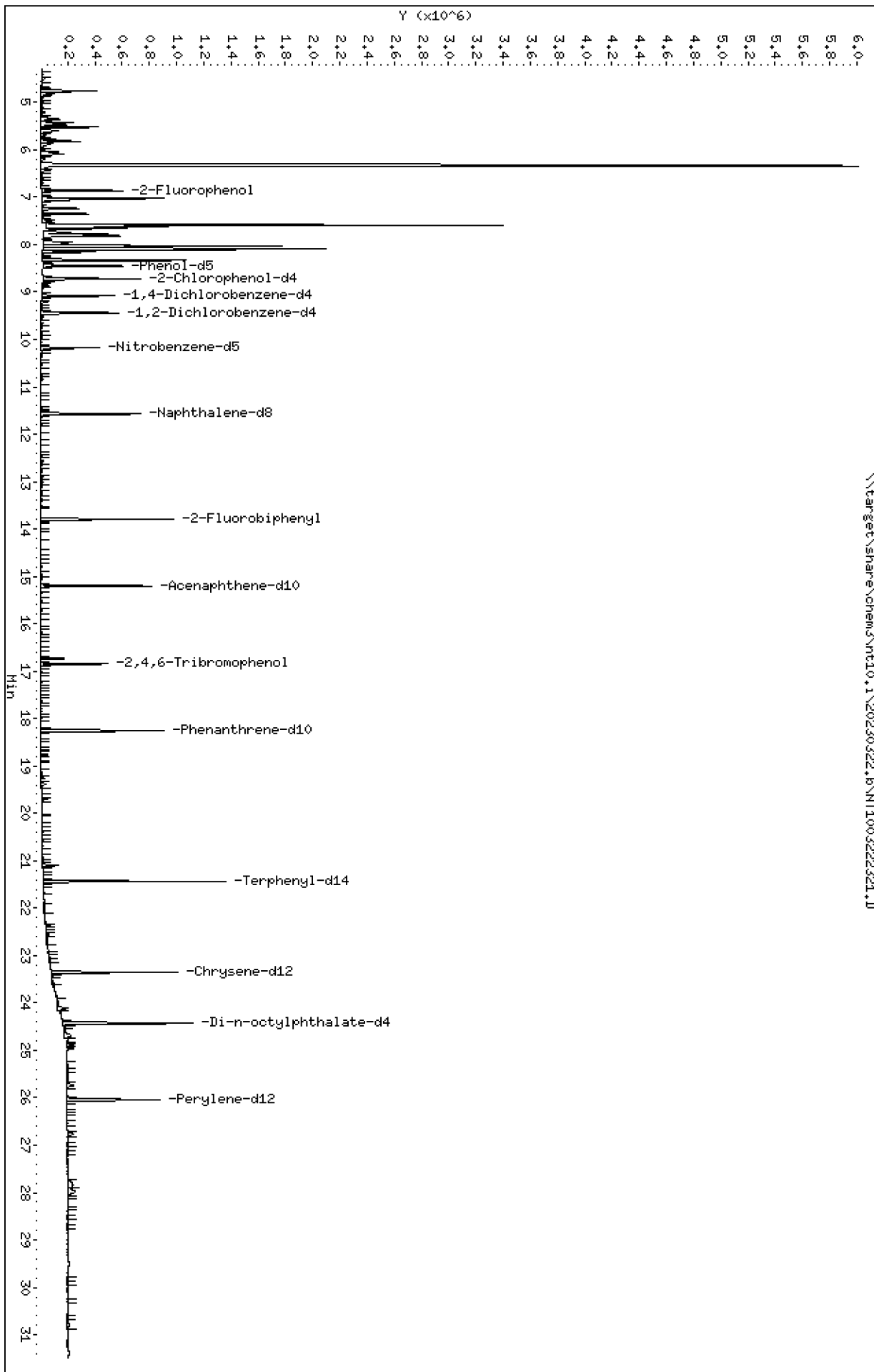
Column phase: ZB-5msi

Instrument: nt10.1

Operator: VTS

Column diameter: 0.25

Page 1



Date : 23-MAR-2023 05:46

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BLK3

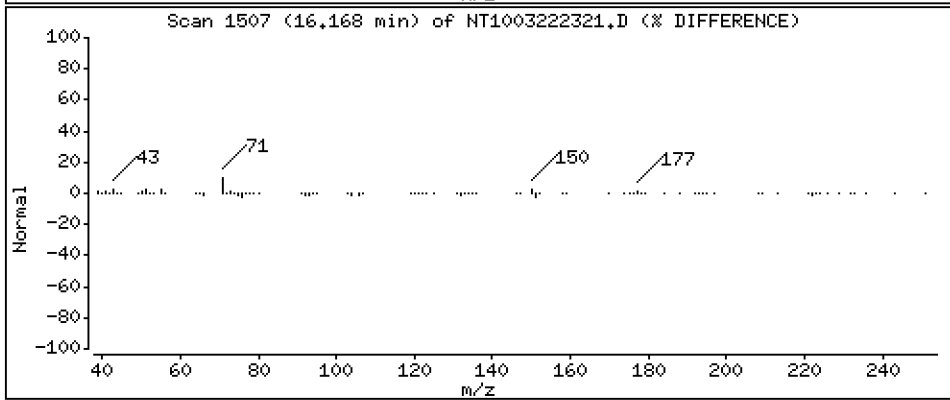
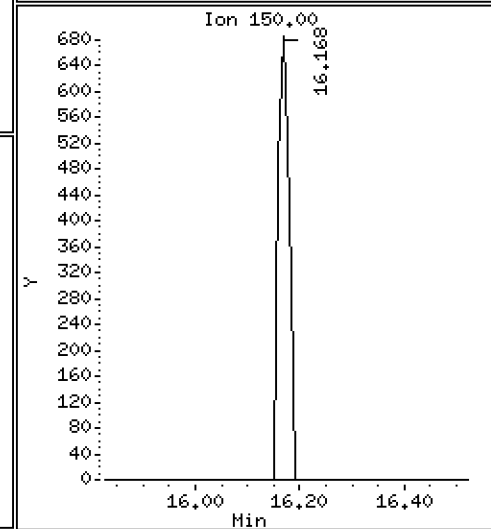
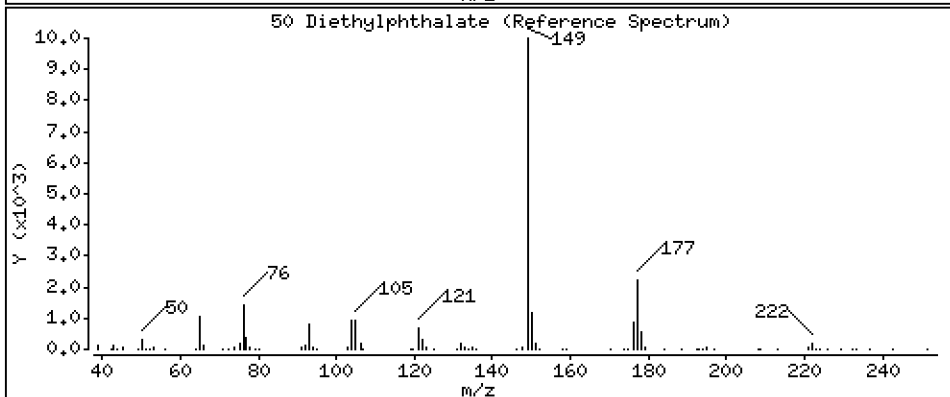
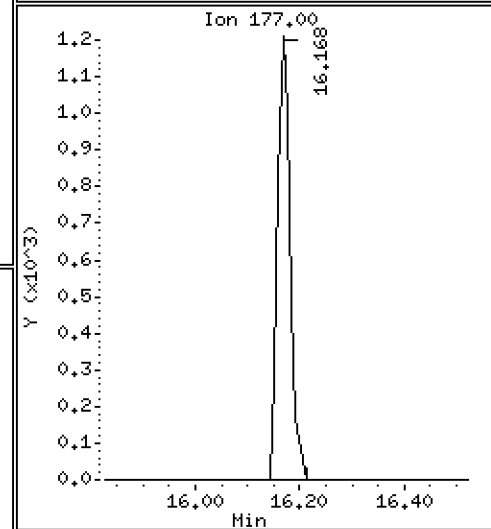
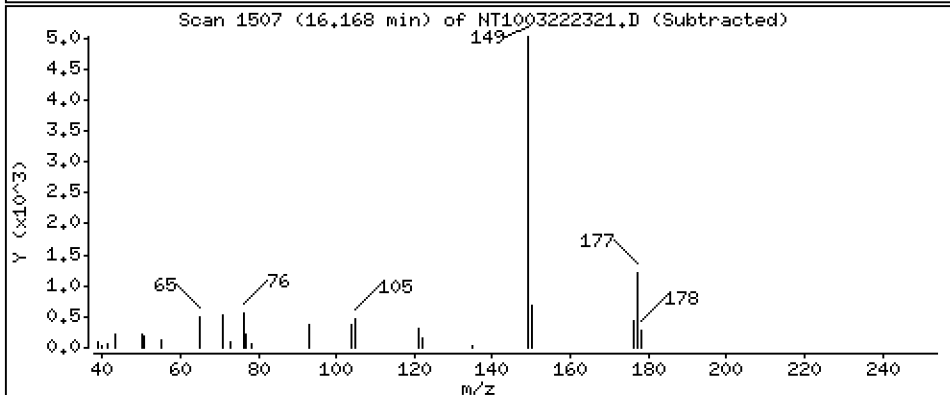
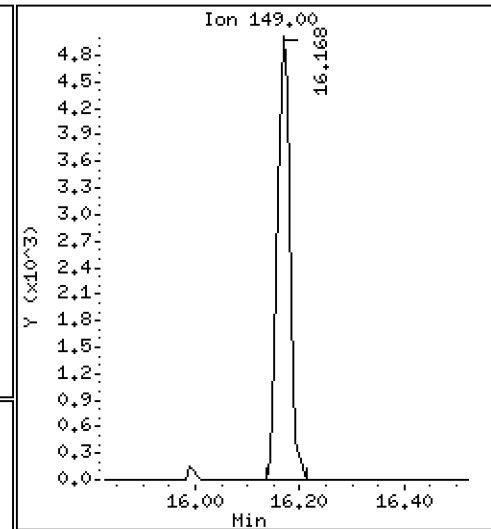
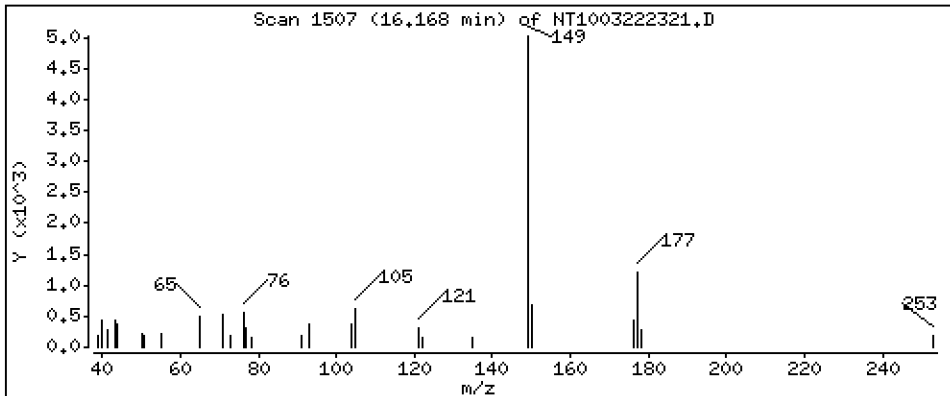
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 0,09664 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

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

Inst ID: nt10.i

Quant Type: ISTD
 Cal File: NT10031508.D

Compound Sublist: ICAL.sub

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

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

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

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

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

Test Mode:
 Use Last Continuing Calibrator.

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

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

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

REVIEW SUMMARY FOR FILE - NT1003222321.D

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

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

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

NONE

RRT check based on Ccal File: NT1003222317.D

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

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



LCS / LCS DUPLICATE RECOVERY
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Matrix: Solid

Analyzed: 03/01/23 17:16

Batch: BLA0557

Laboratory ID: BLA0557-BS1

Preparation: EPA 3546 (Microwave)

Sequence Name: LCS

Initial/Final: 10 g / 1 mL

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

* Indicates values outside of QC limits

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

* Indicates values outside of QC limits



LCS / LCS DUPLICATE RECOVERY
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Matrix: Solid

Analyzed: 03/01/23 17:52

Batch: BLA0557

Laboratory ID: BLA0557-BSD1

Preparation: EPA 3546 (Microwave)

Sequence Name: LCS Dup

Initial/Final: 10 g / 1 mL

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

* Indicates values outside of QC limits

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

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Sample Info: BLR0557-BS1

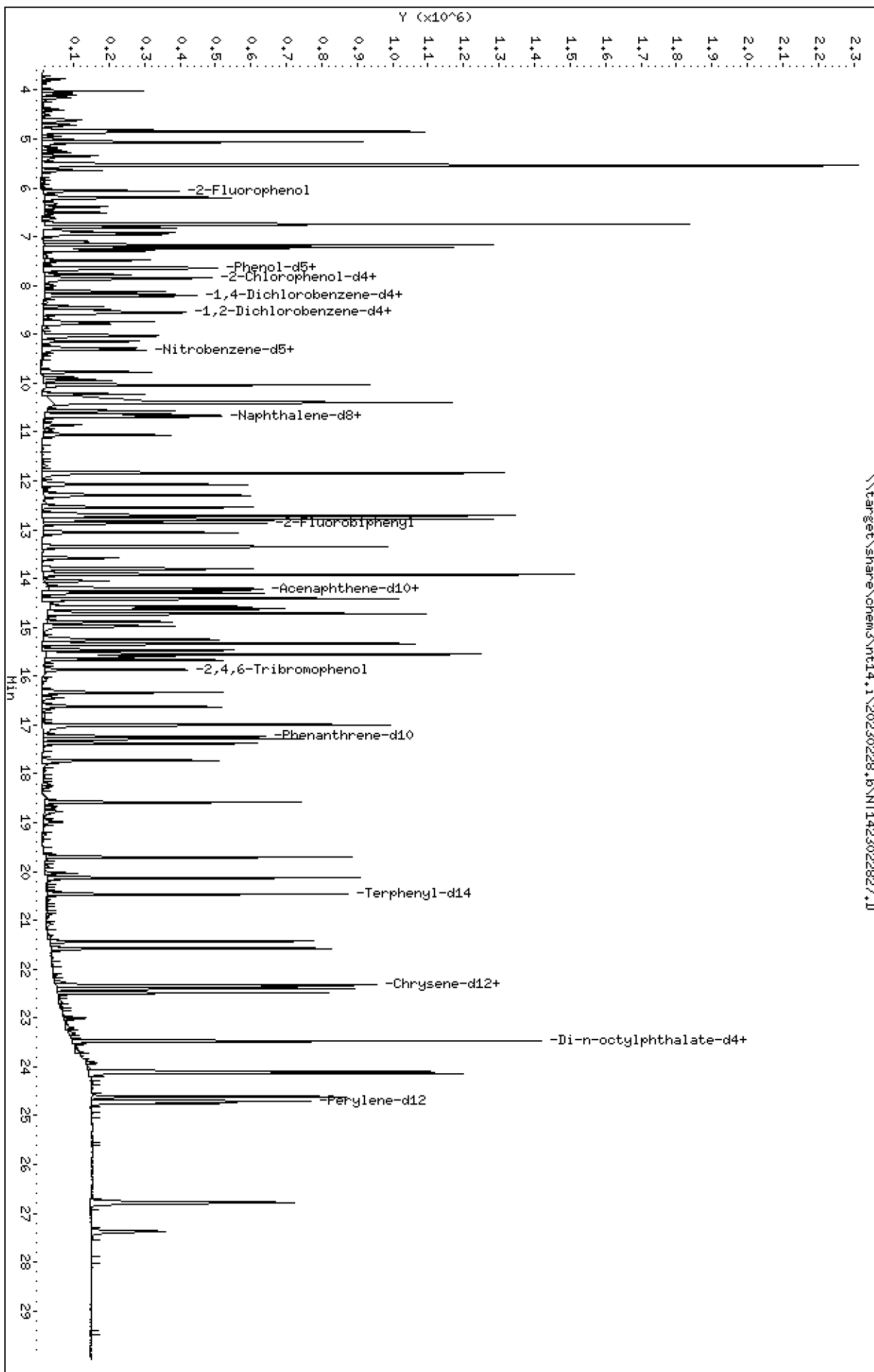
Column phase: ZB-5msi

Instrument: nt14,1

Operator: JGR

Column diameter: 0.25

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Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

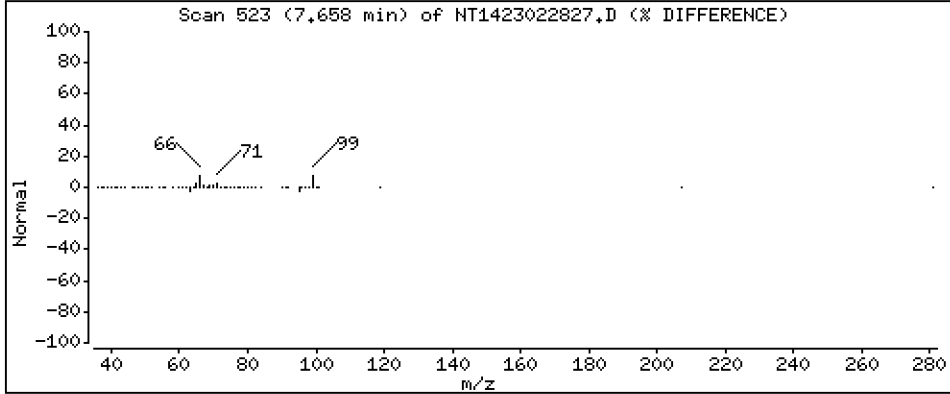
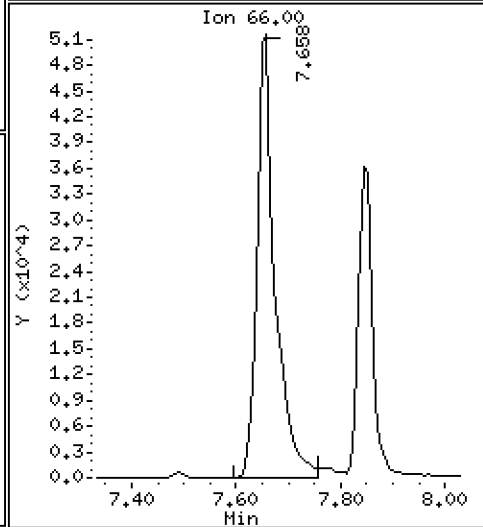
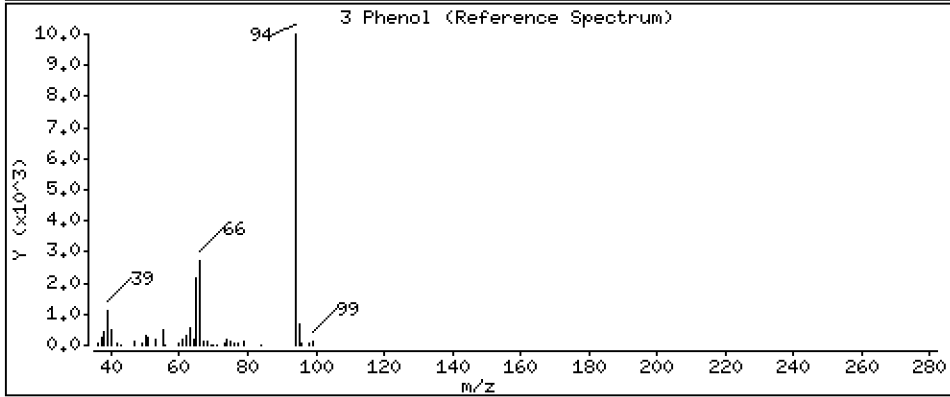
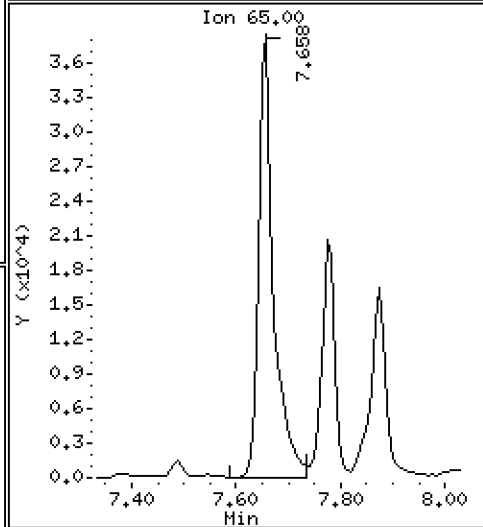
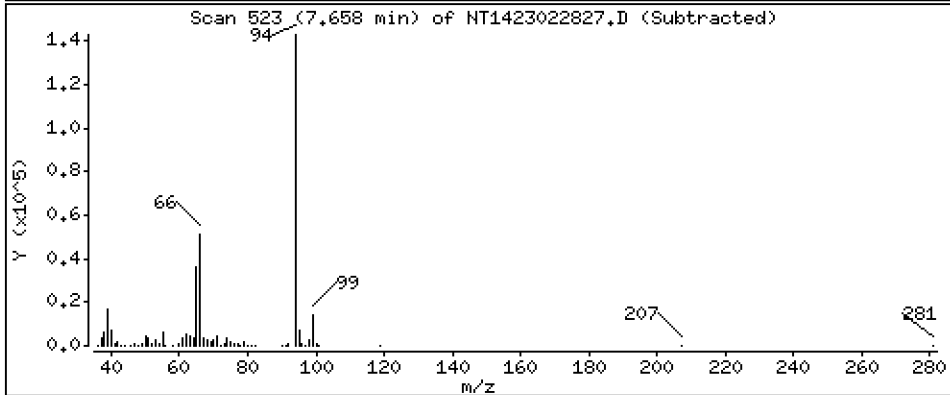
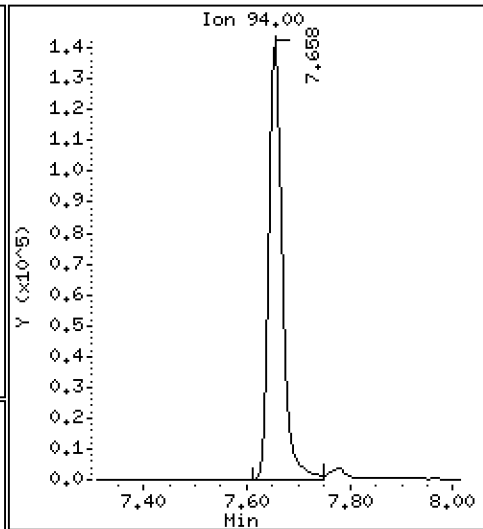
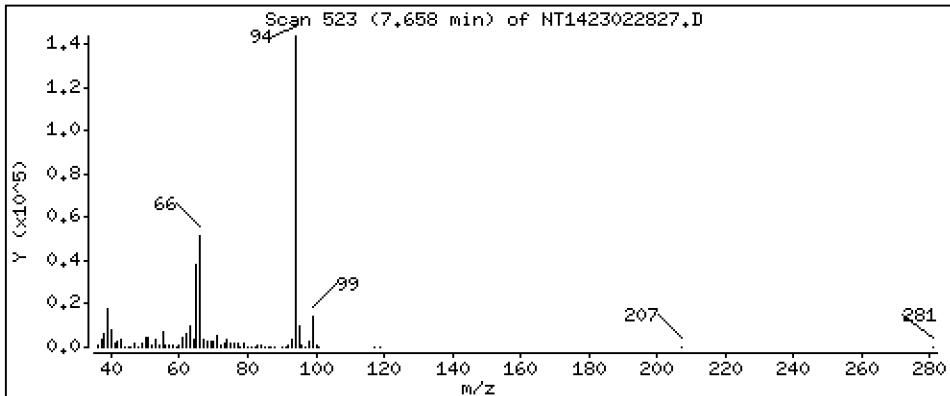
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 4,632 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

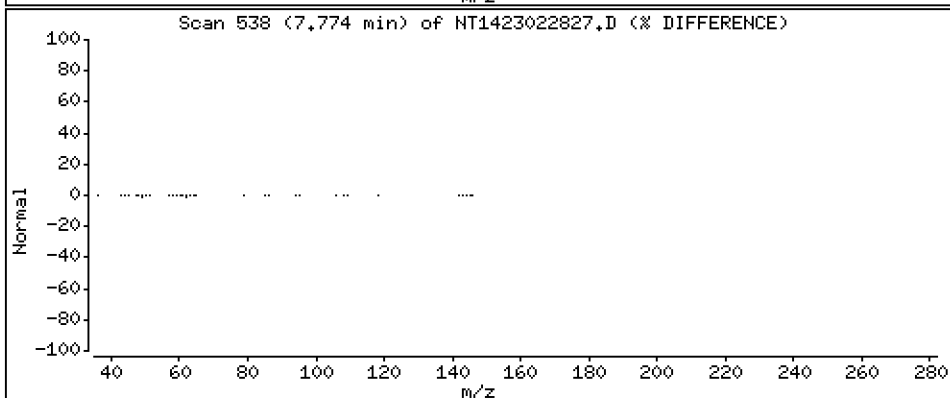
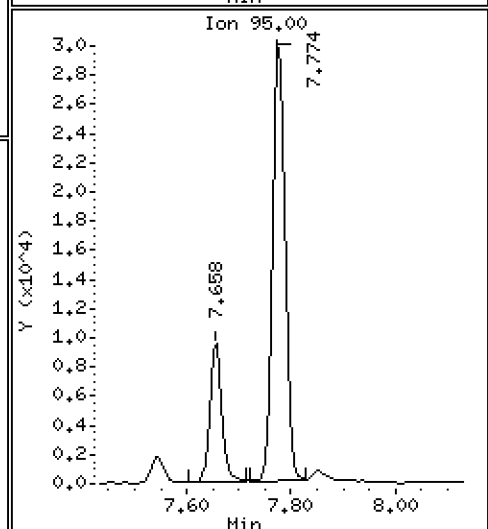
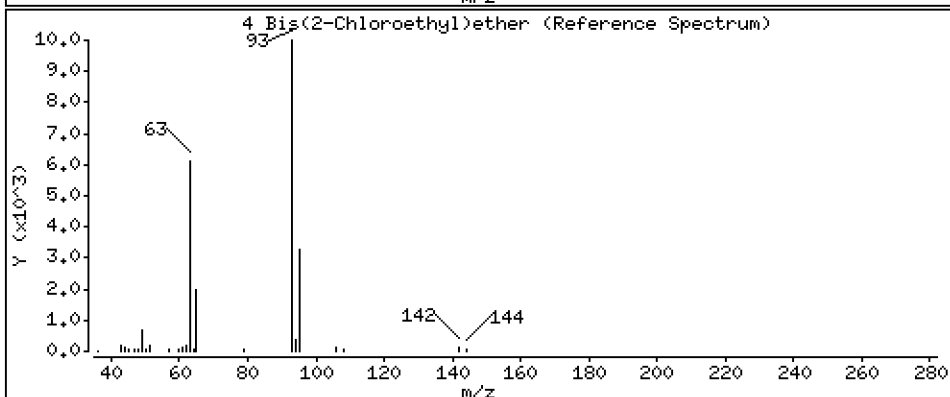
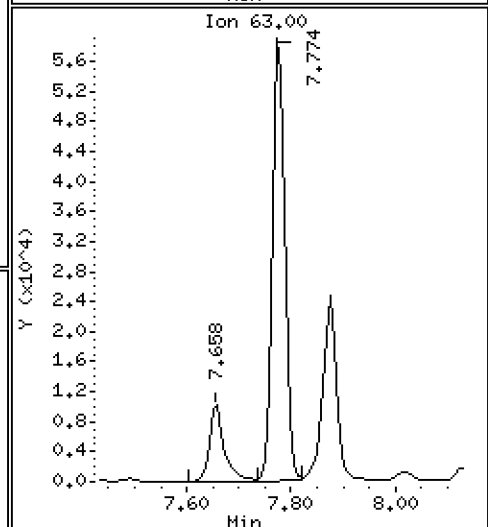
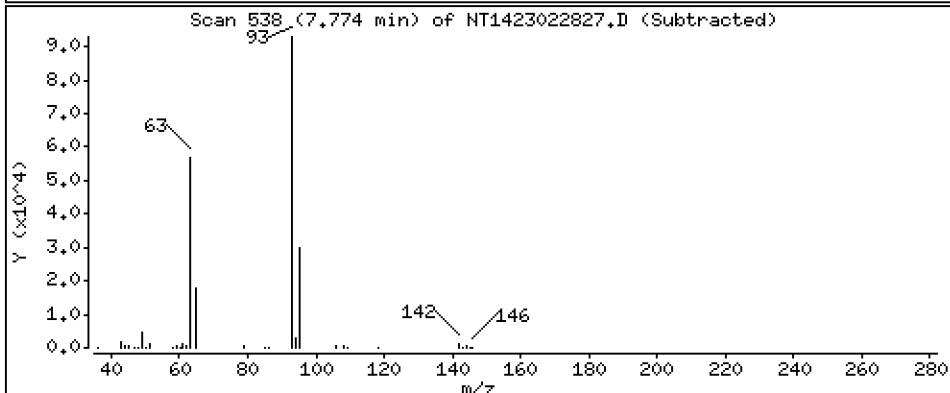
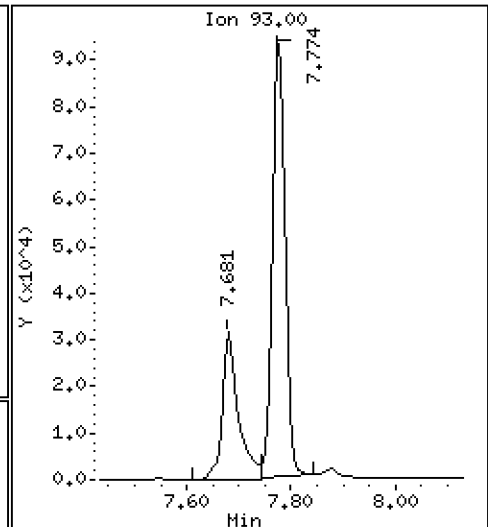
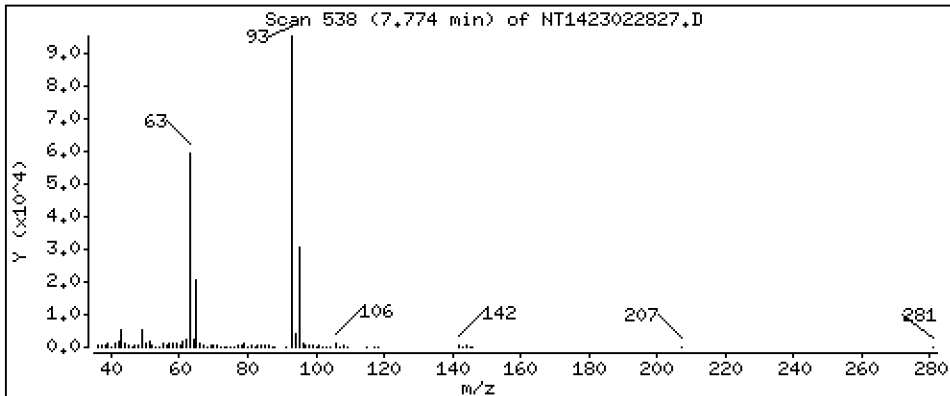
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

4 Bis(2-Chloroethyl)ether

Concentration: 4,174 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

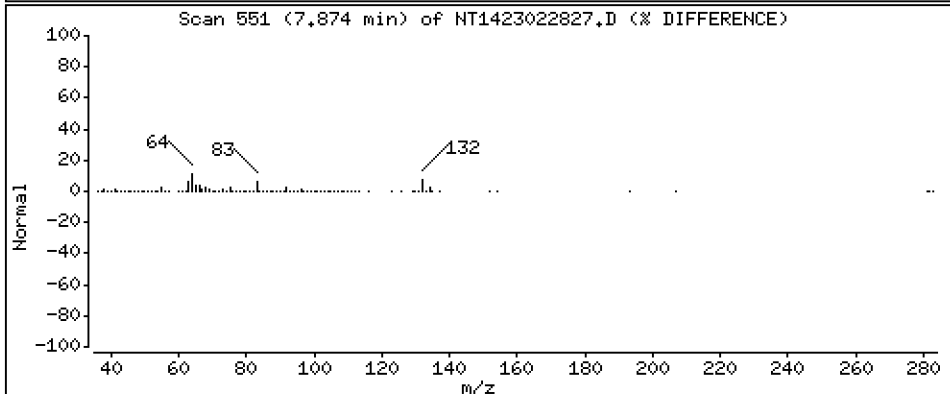
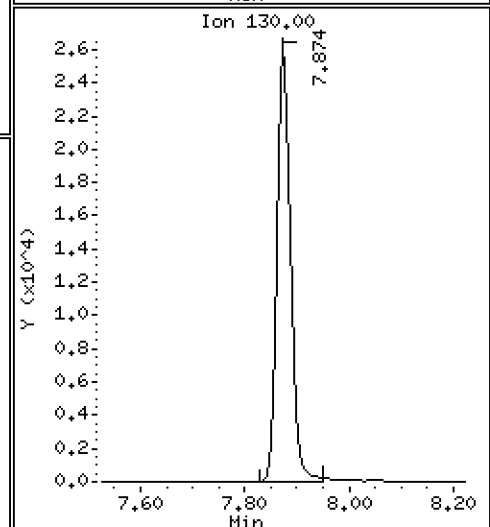
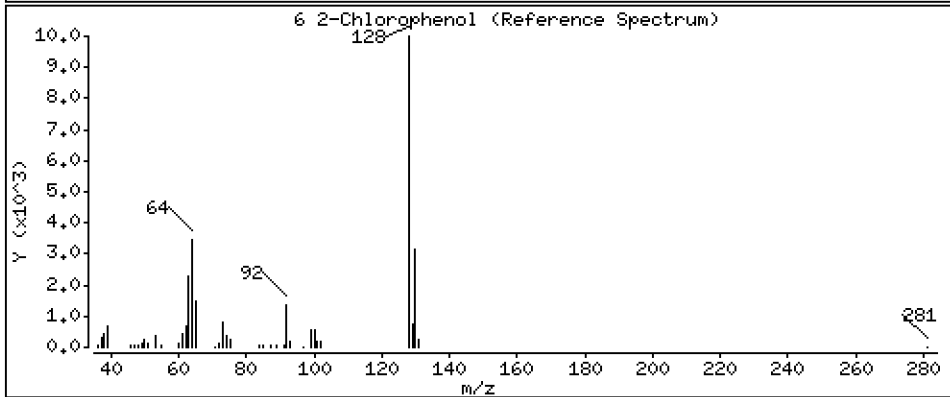
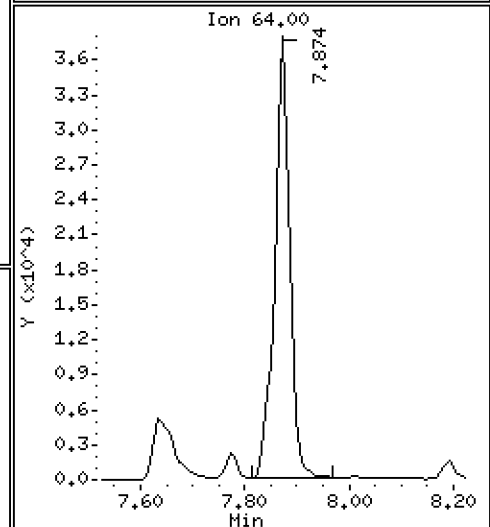
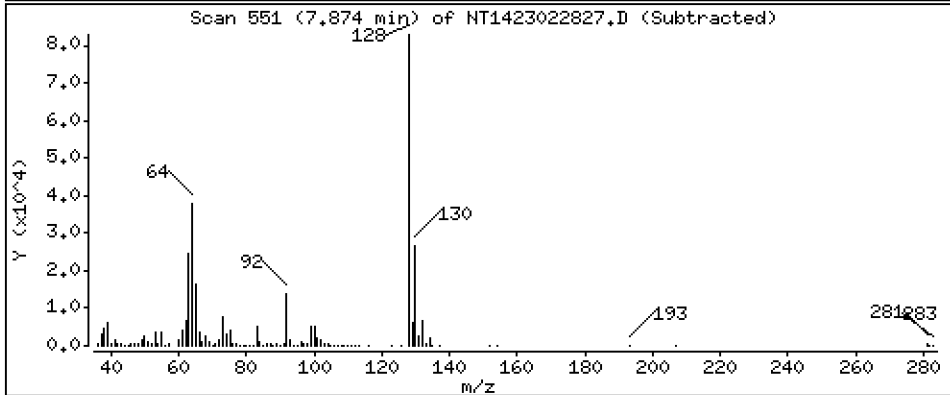
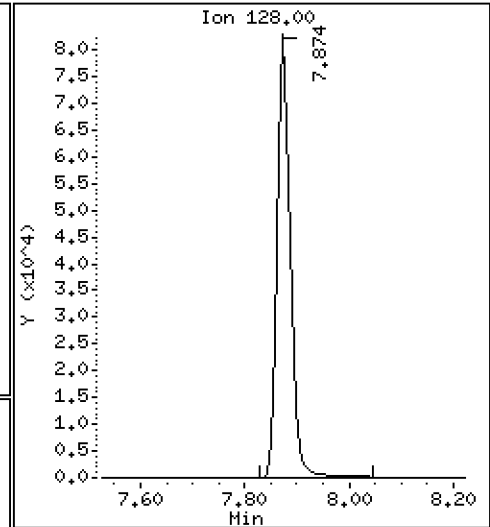
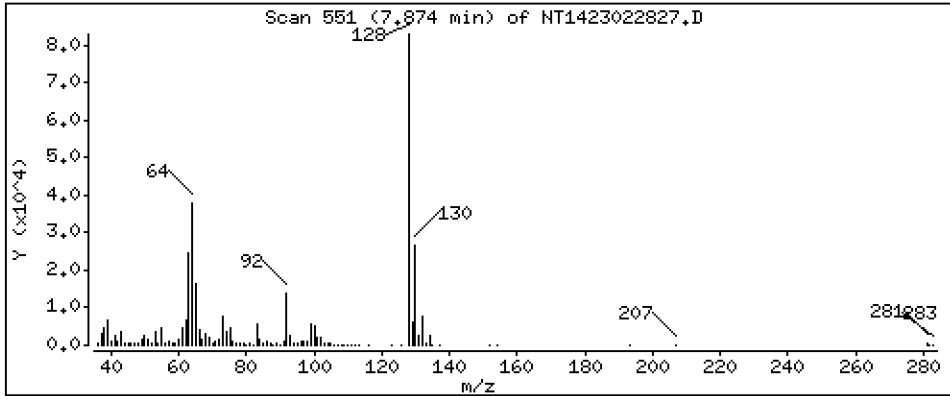
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 3,904 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

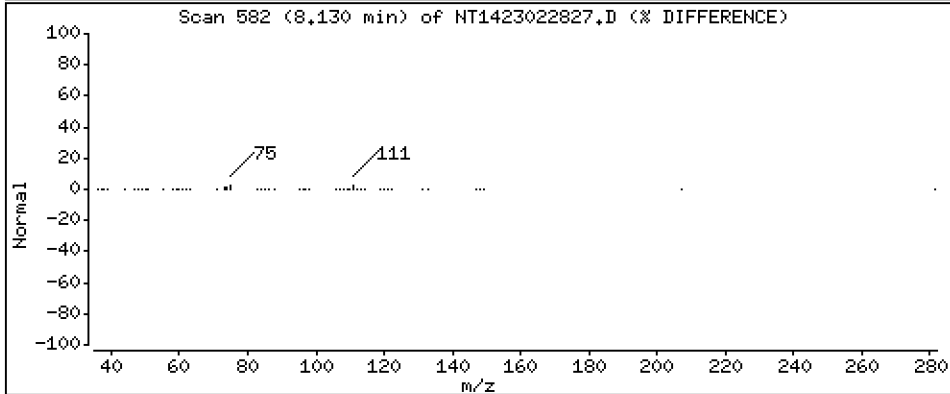
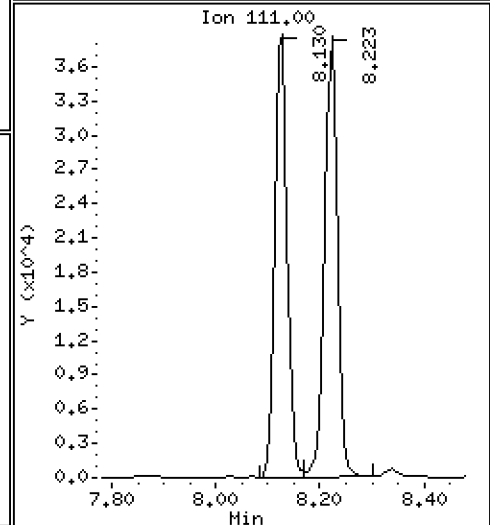
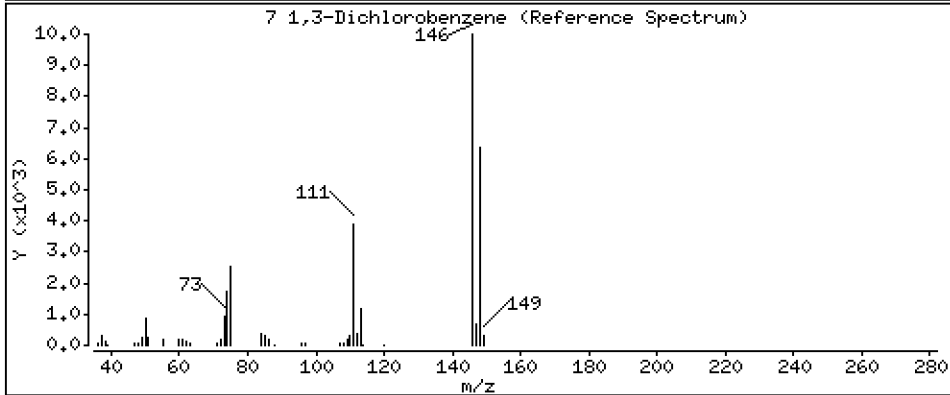
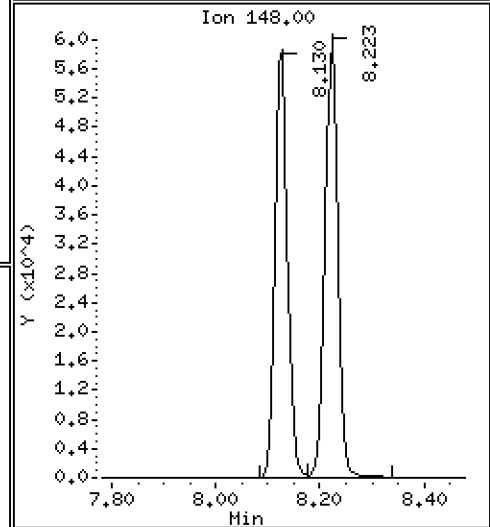
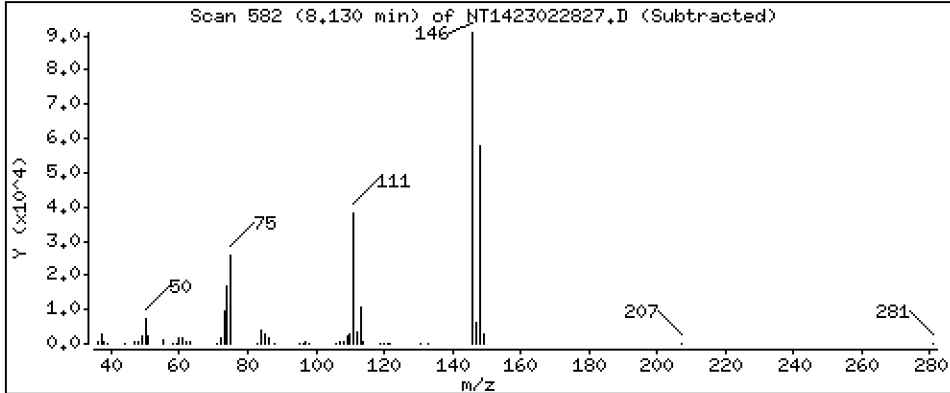
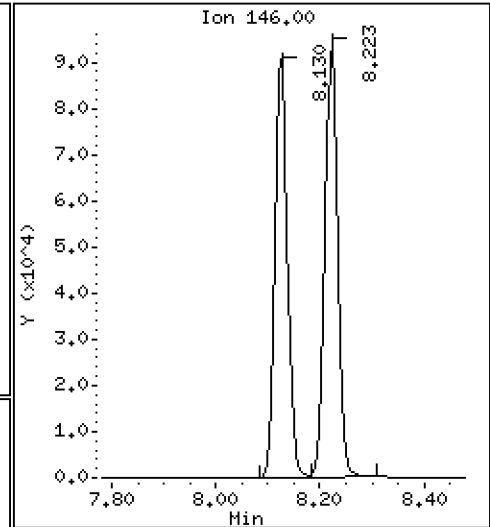
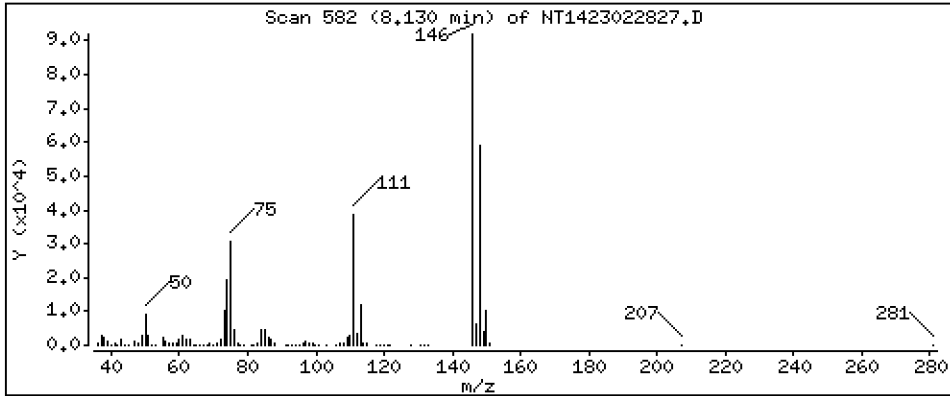
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

7 1,3-Dichlorobenzene

Concentration: 3,557 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

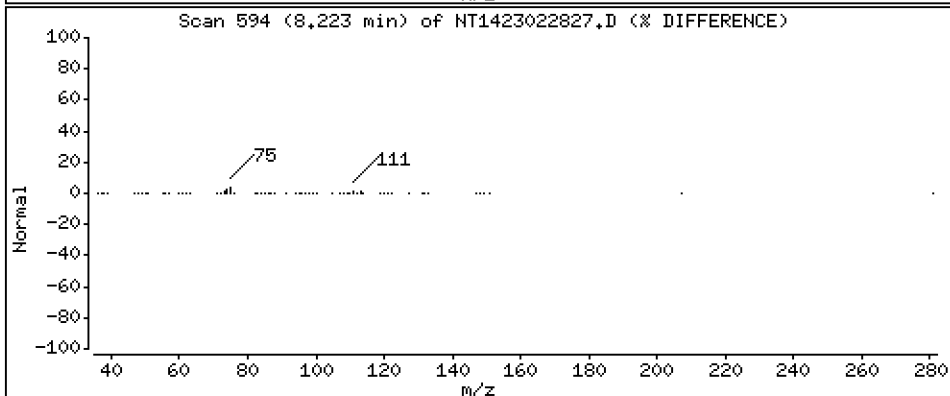
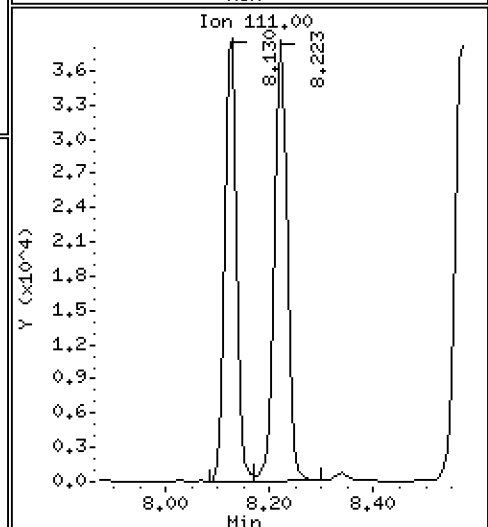
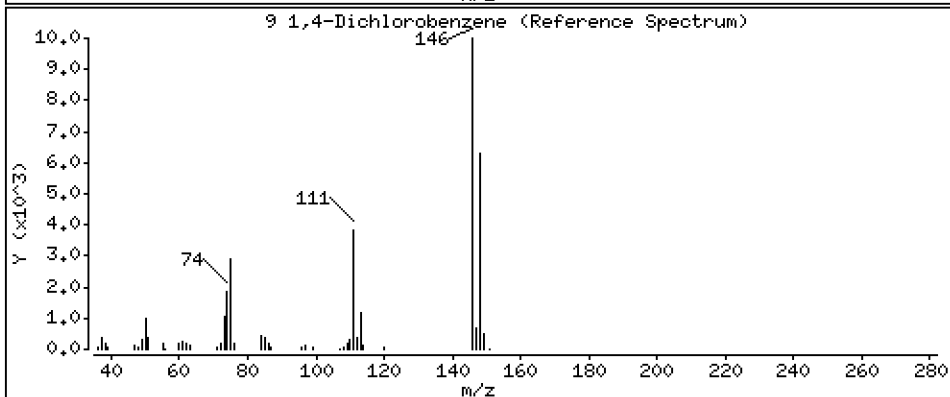
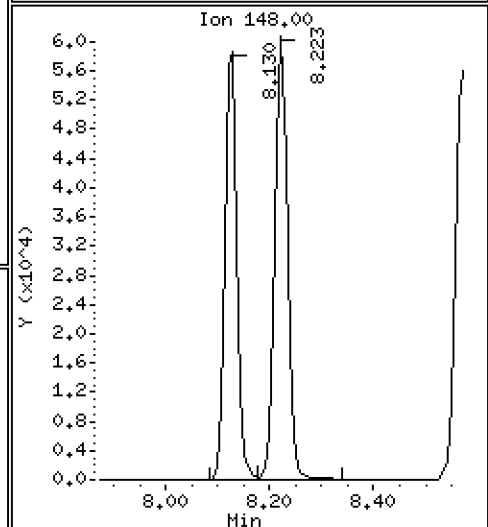
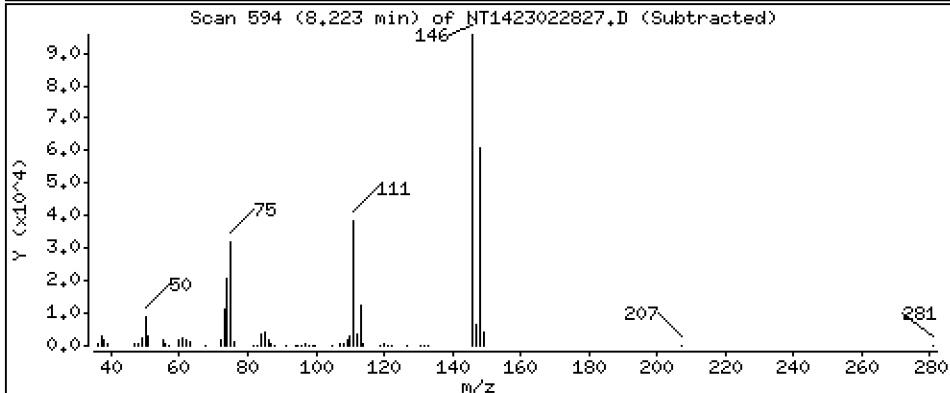
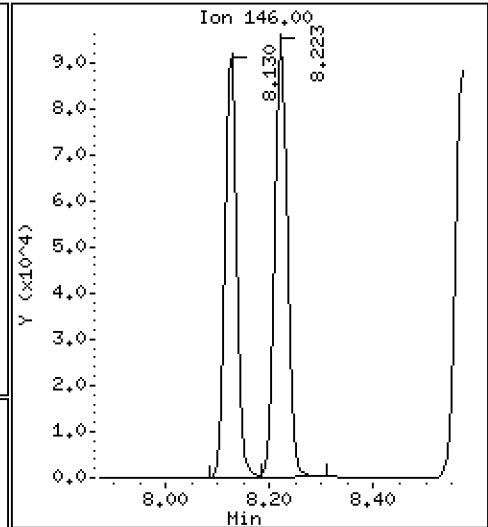
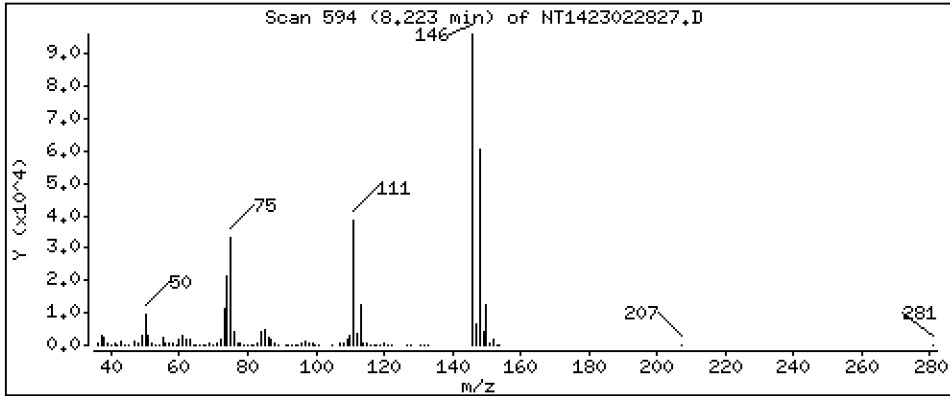
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 3,555 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

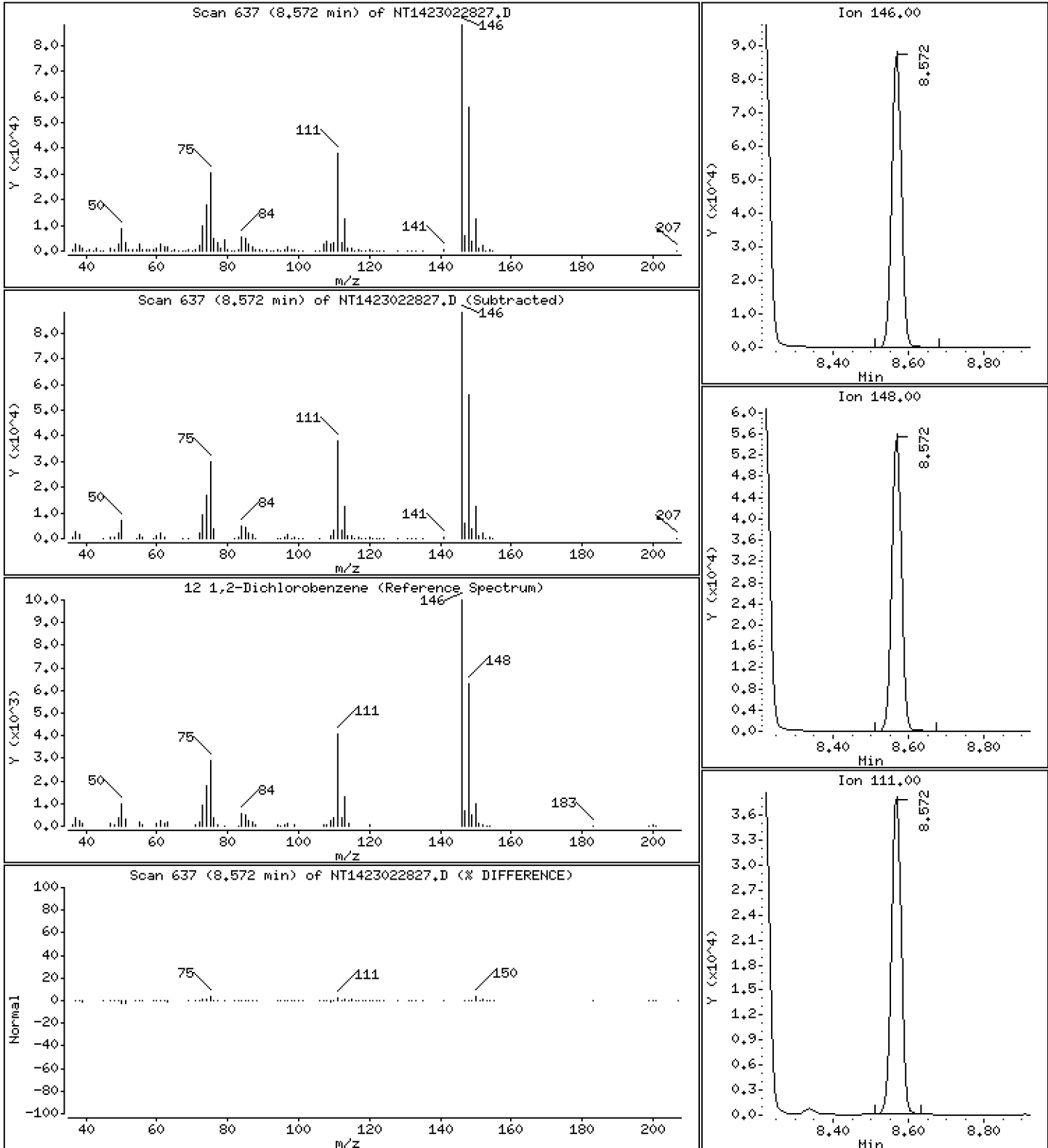
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

12 1,2-Dichlorobenzene

Concentration: 3,653 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

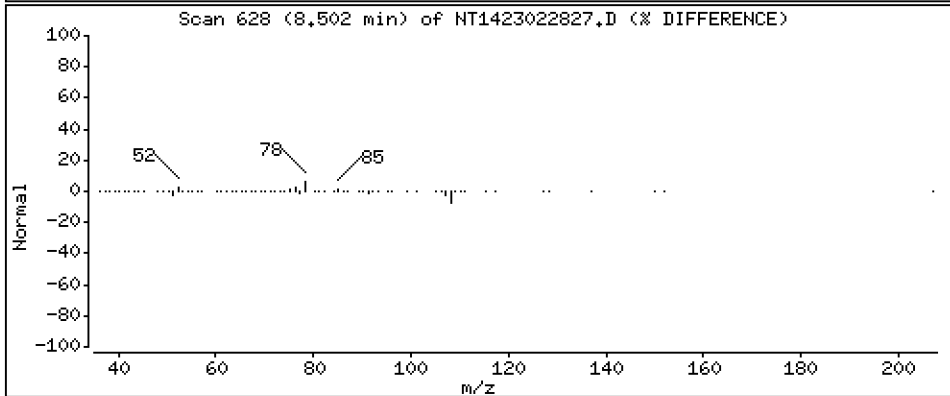
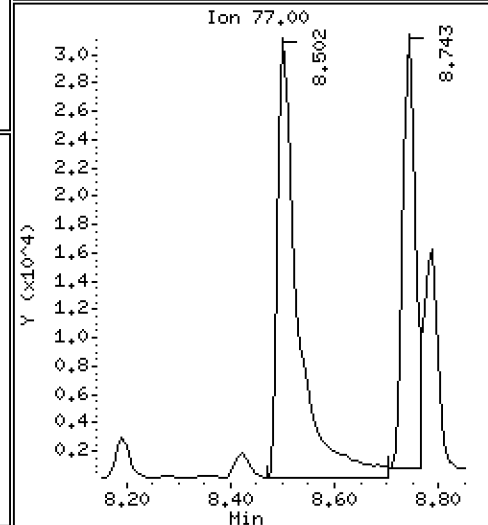
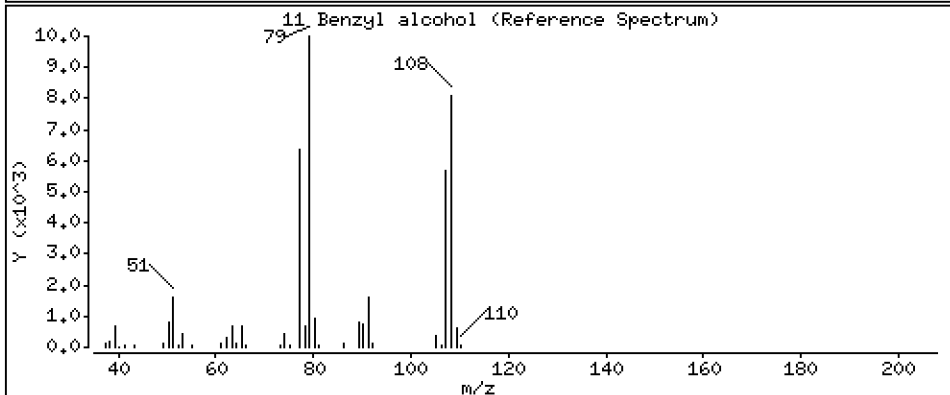
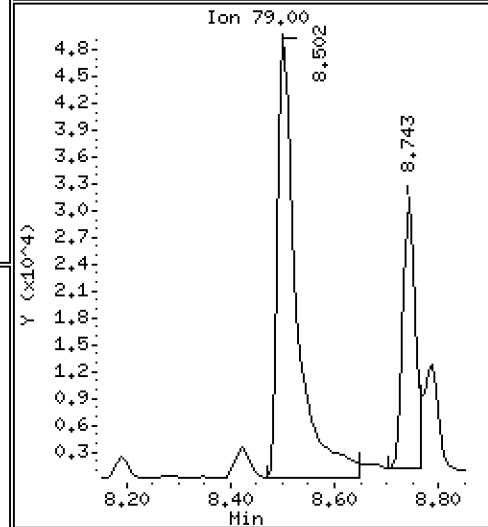
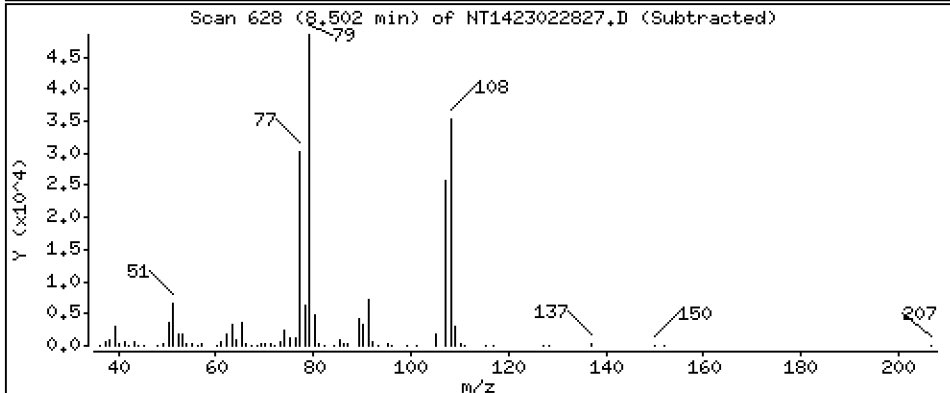
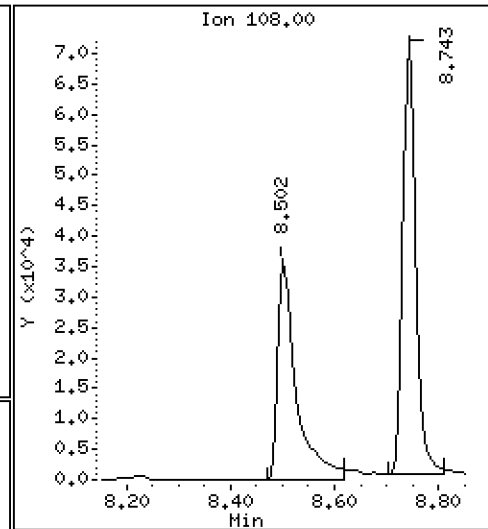
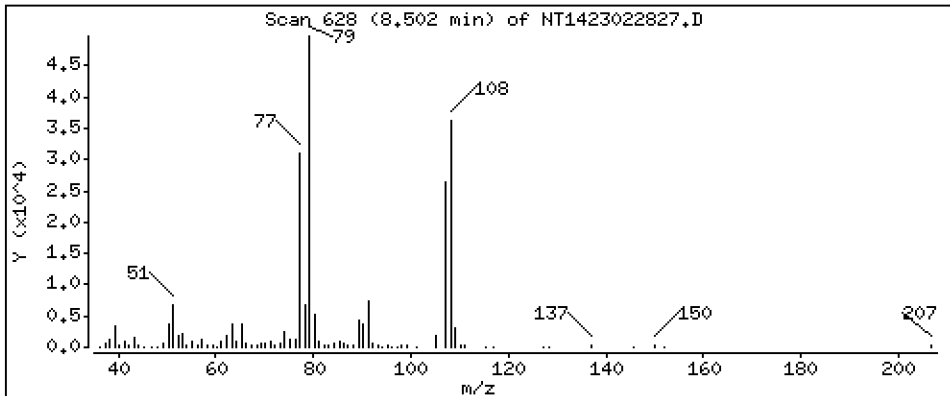
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

11 Benzyl alcohol

Concentration: 3,705 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

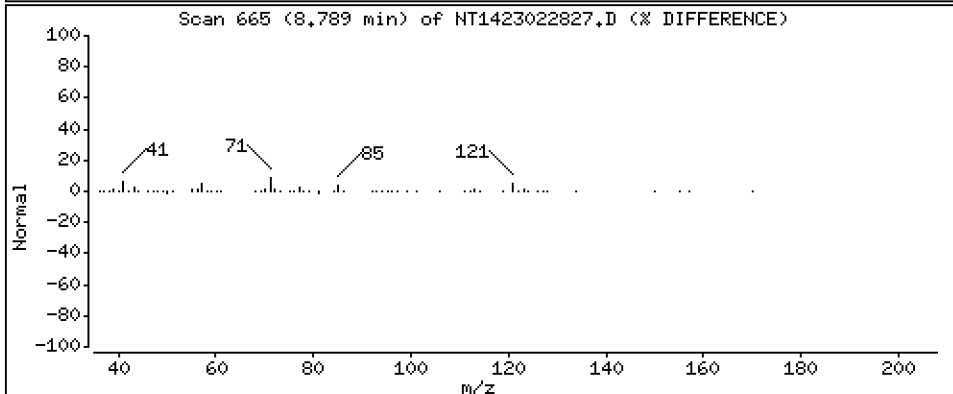
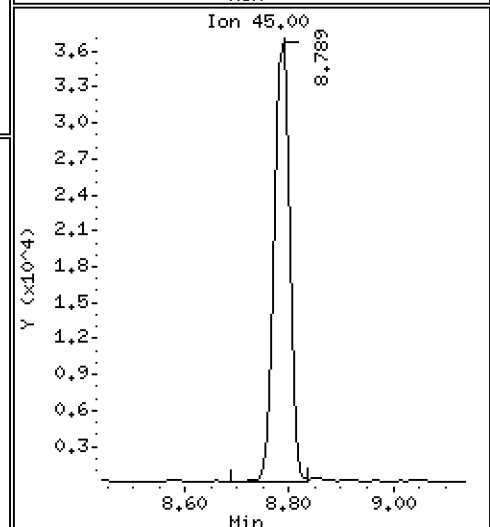
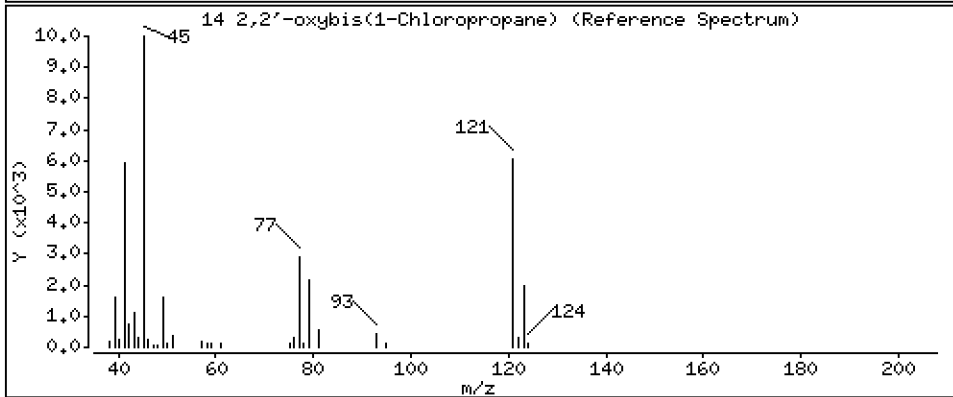
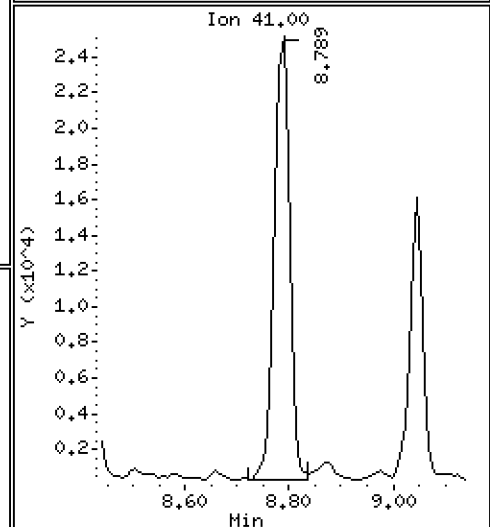
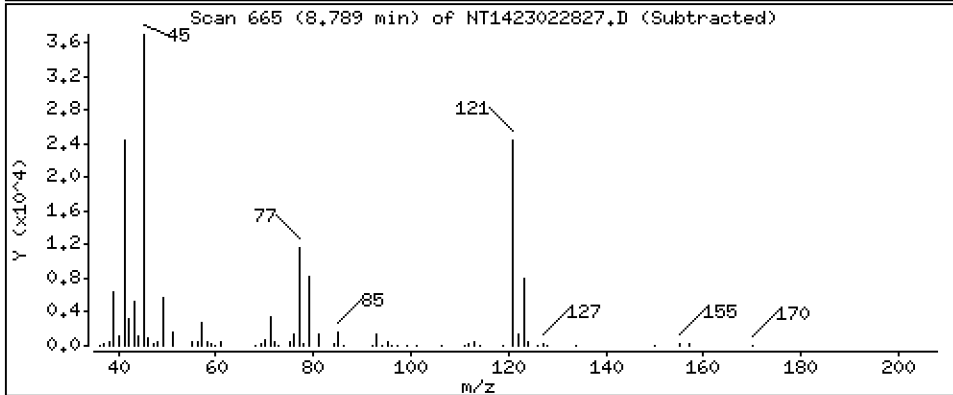
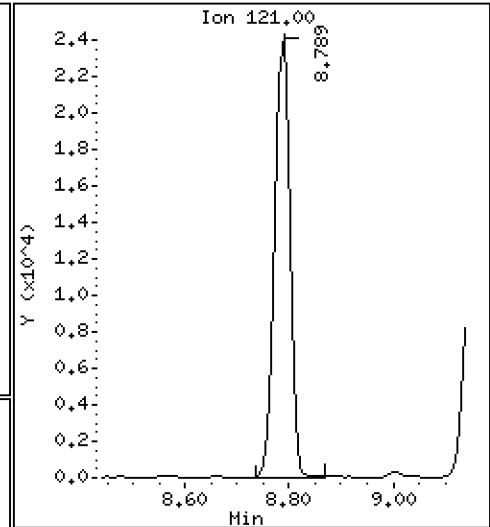
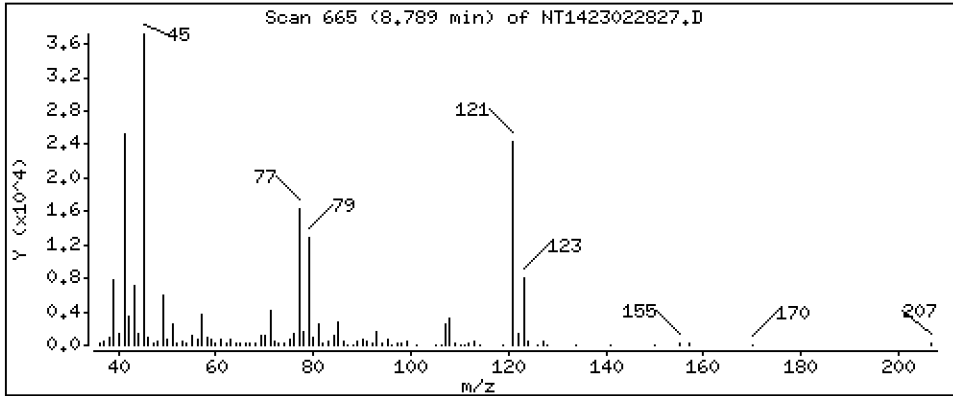
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 4,326 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

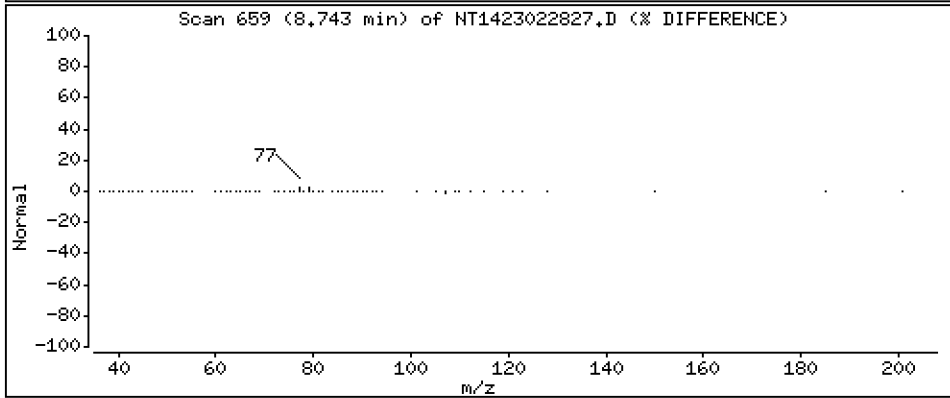
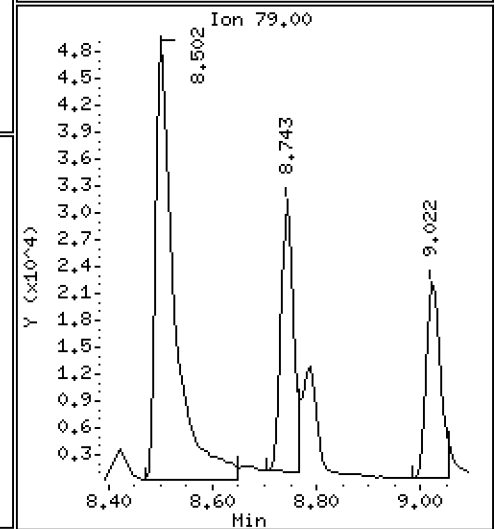
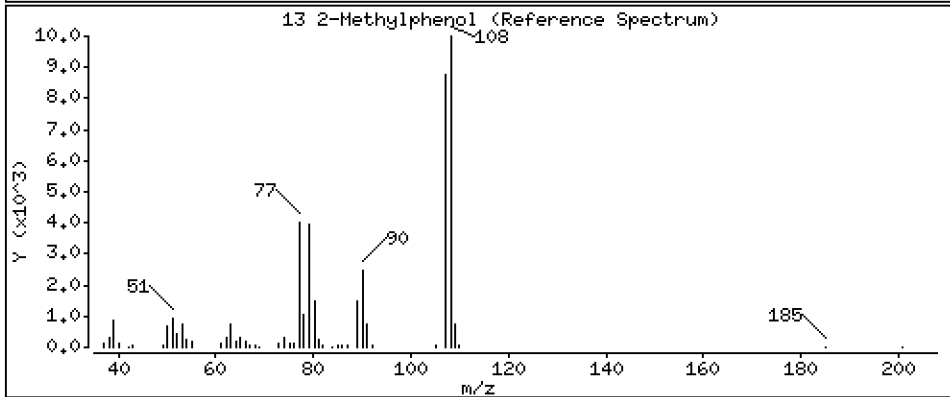
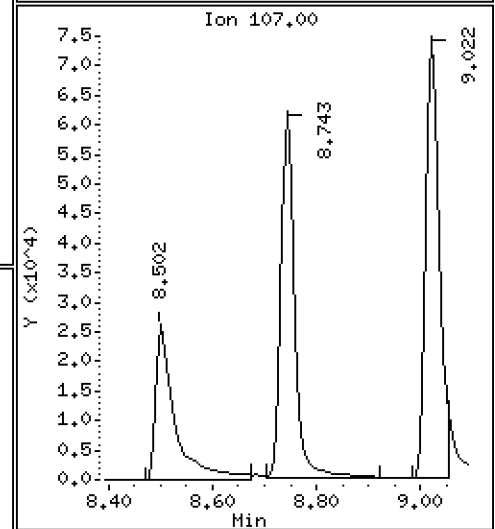
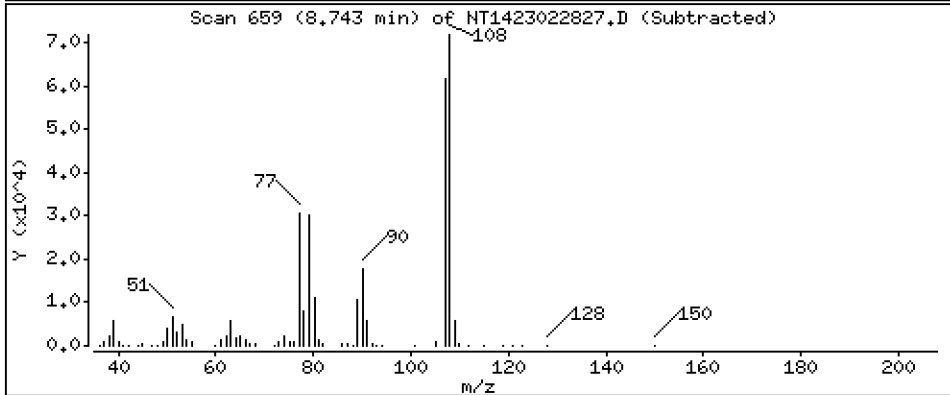
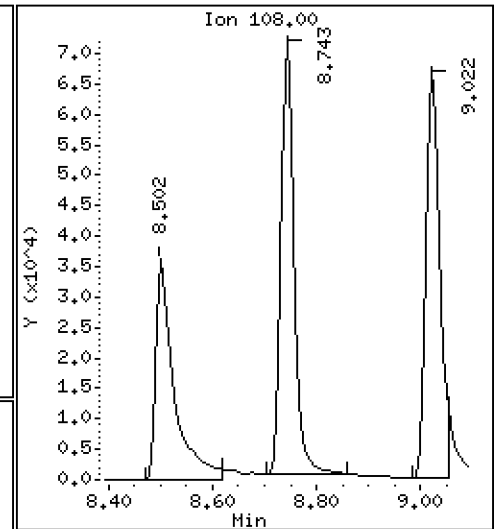
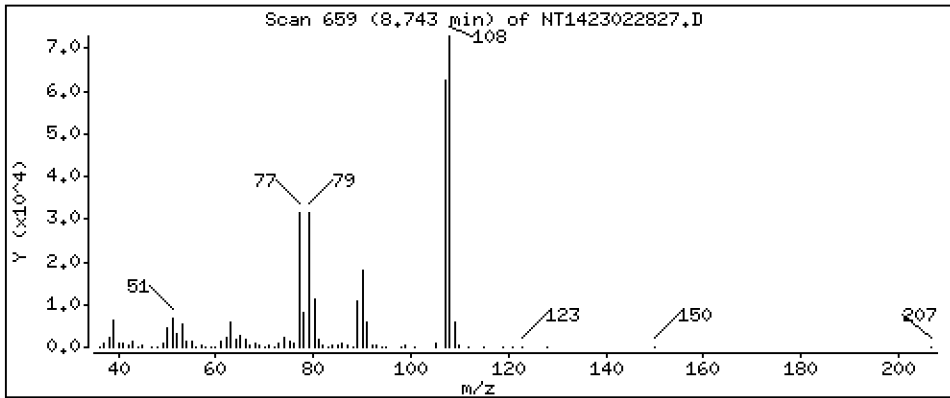
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

13 2-Methylphenol

Concentration: 3,527 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

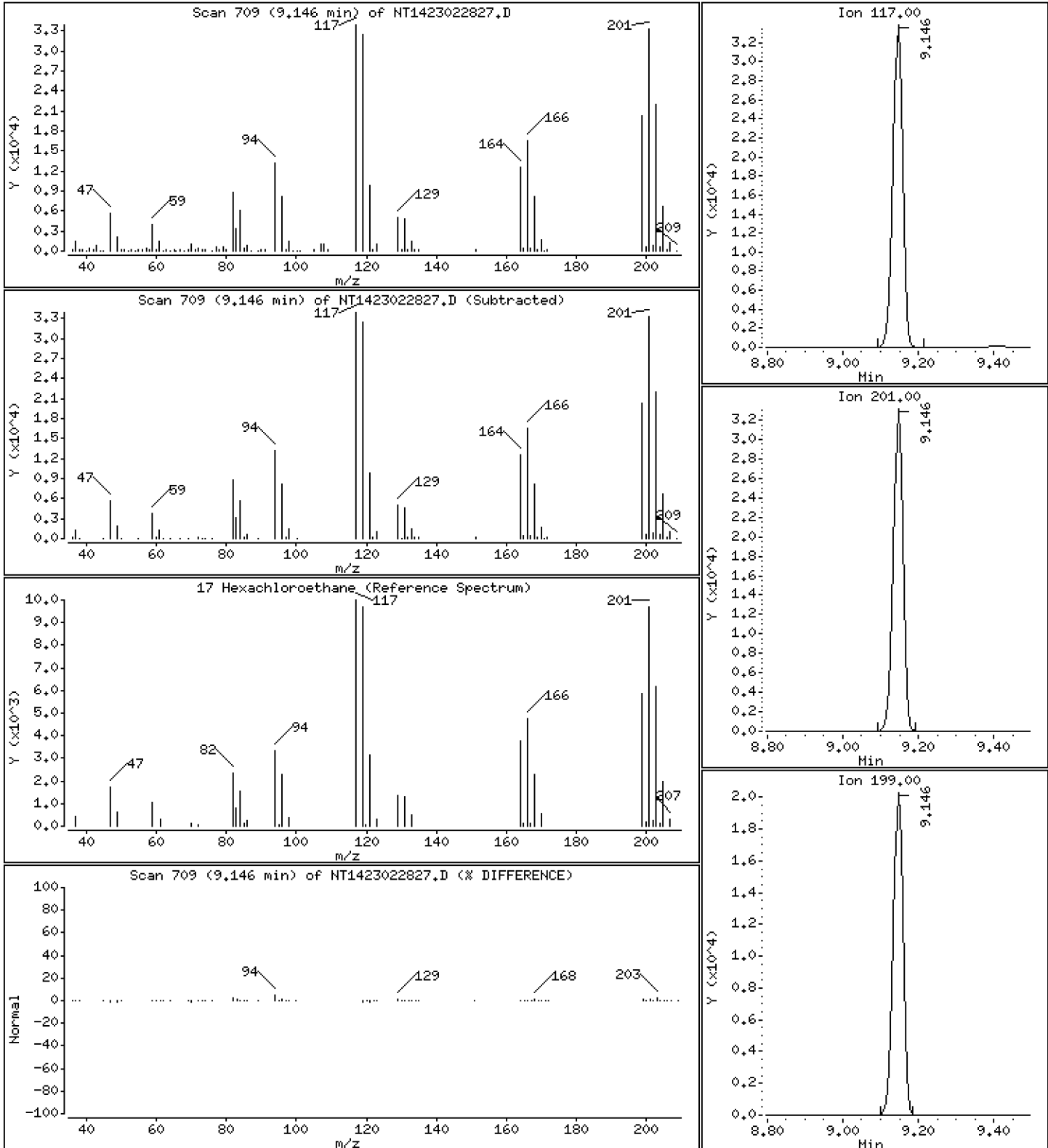
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

17 Hexachloroethane

Concentration: 3,664 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

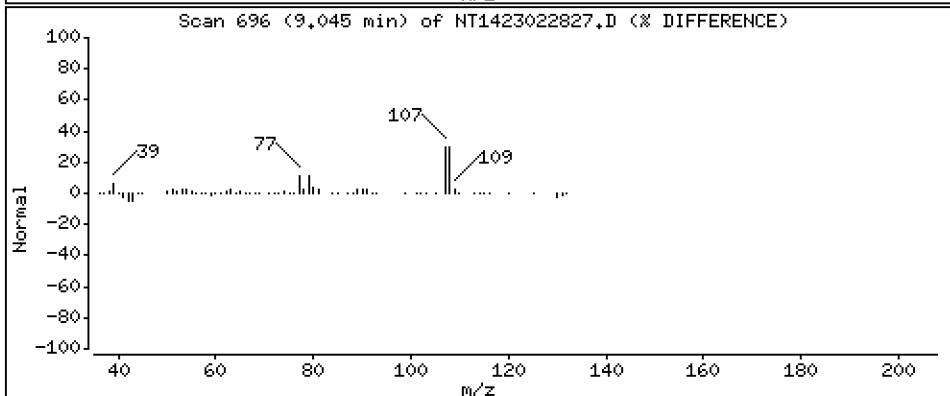
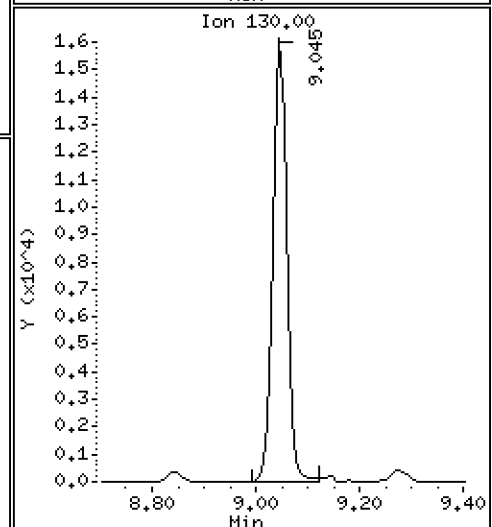
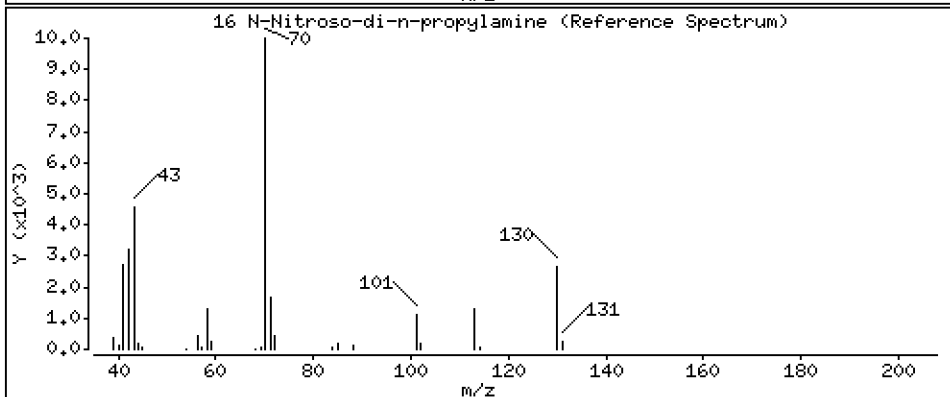
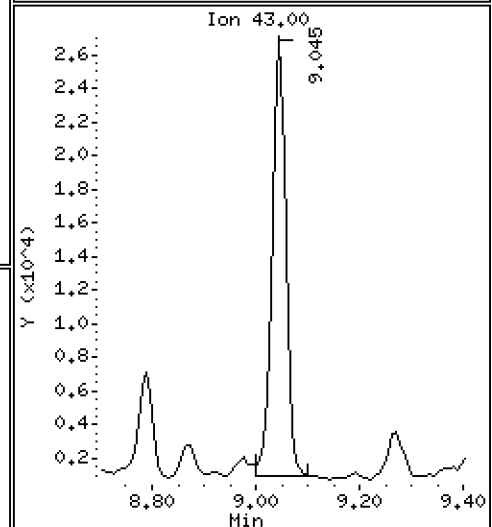
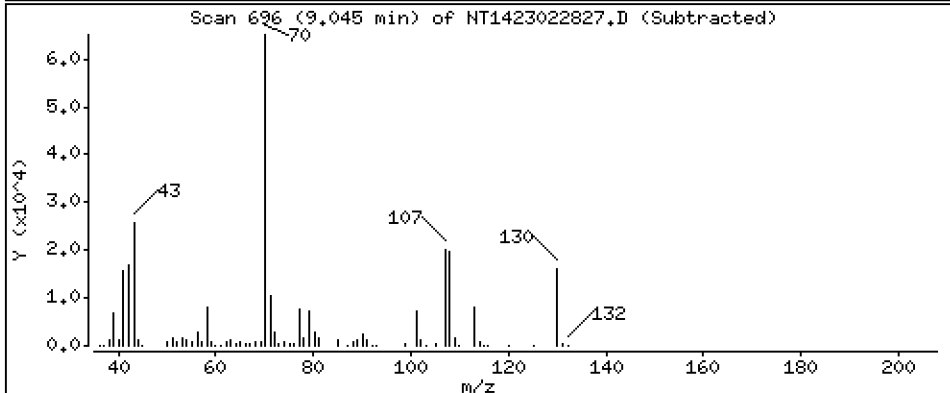
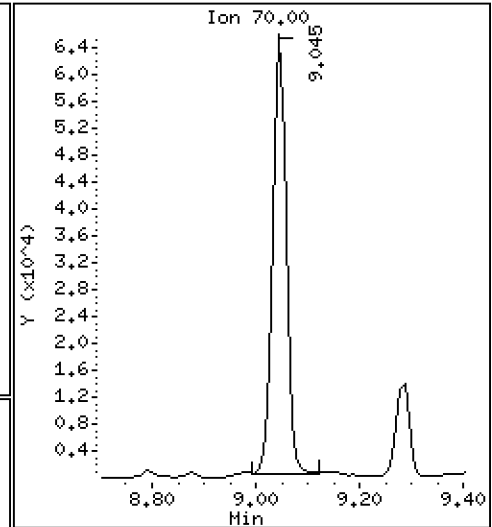
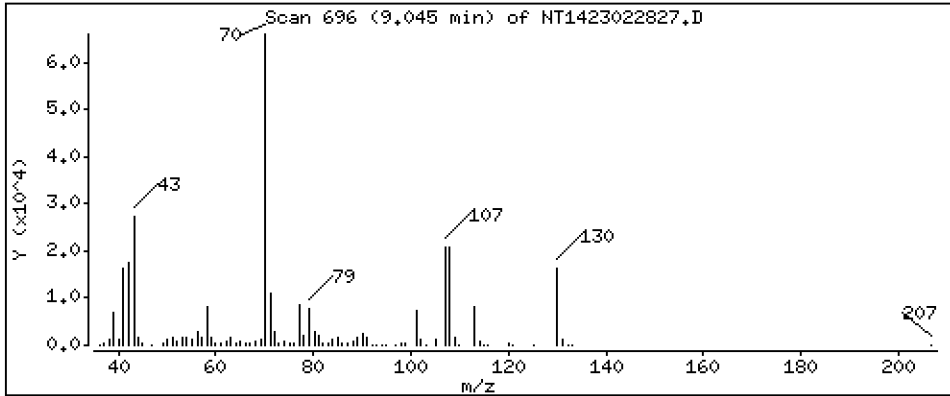
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

16 N-Nitroso-di-n-propylamine

Concentration: 4,374 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

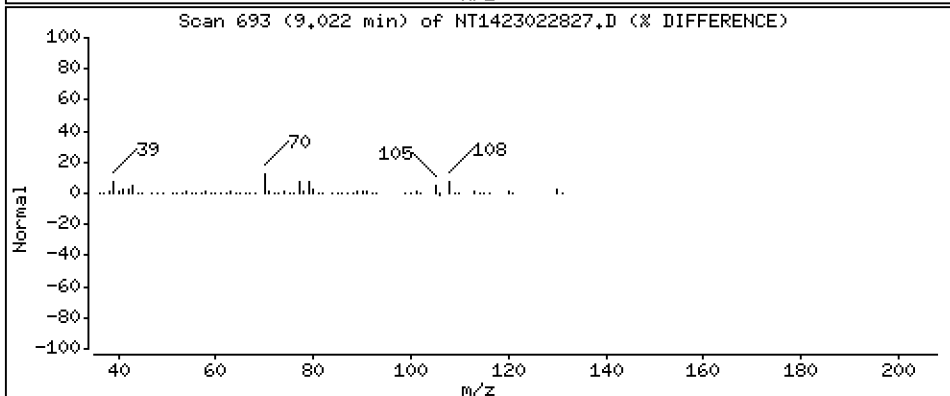
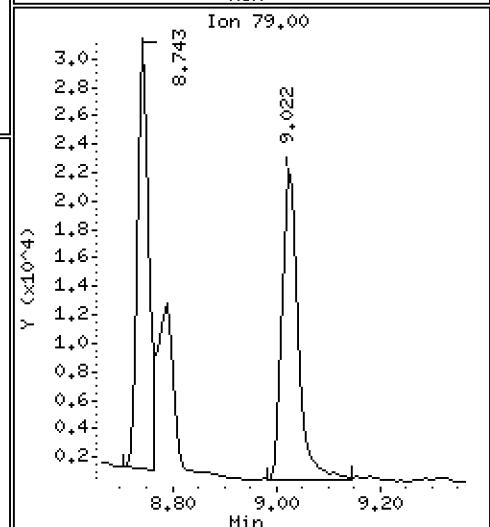
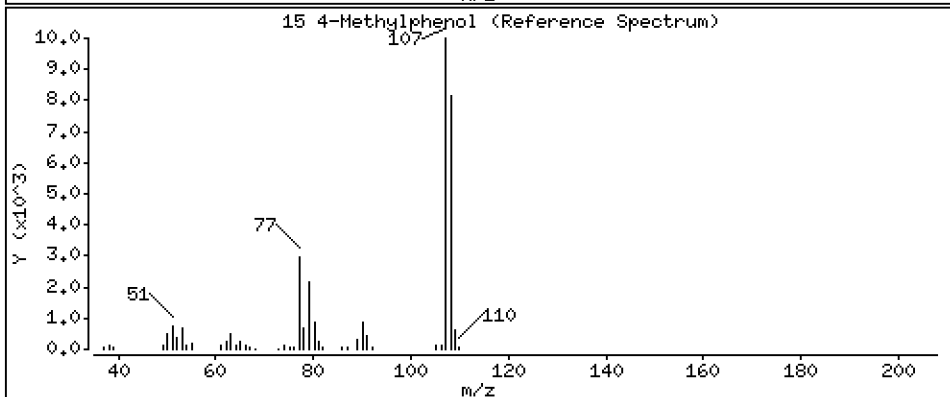
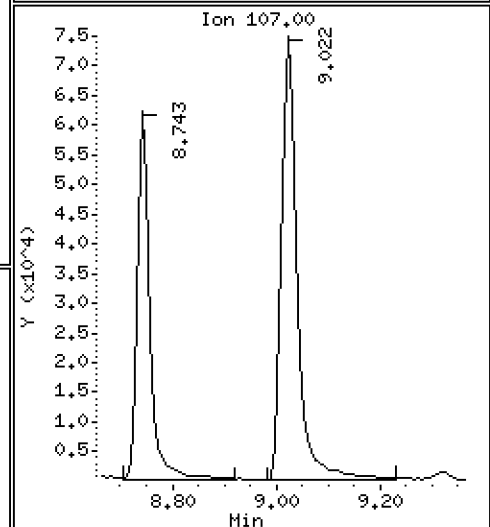
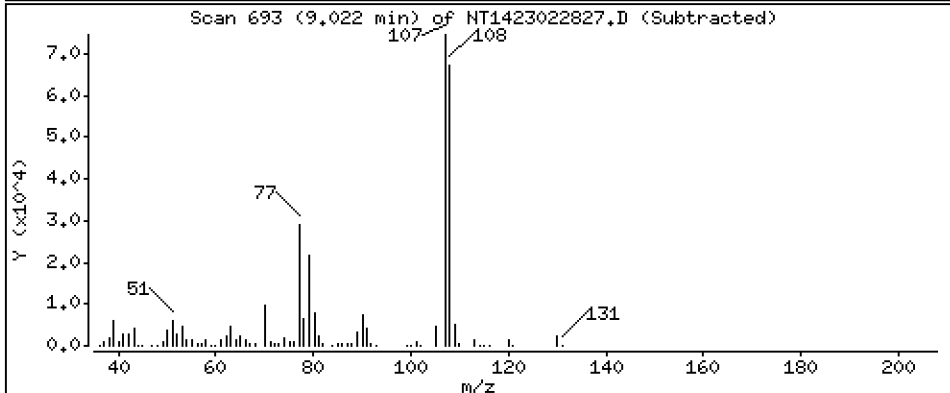
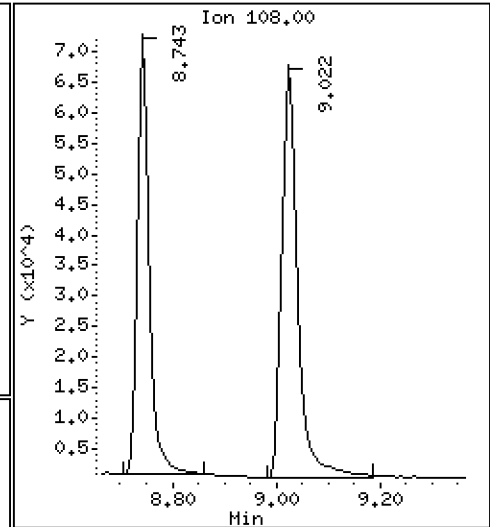
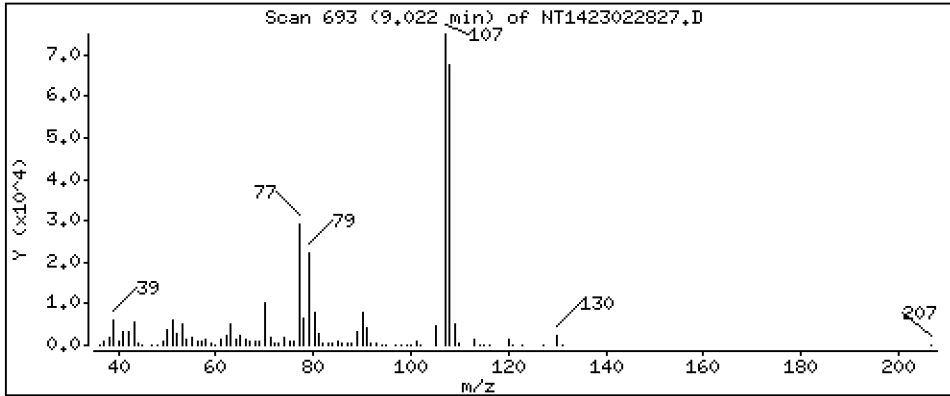
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

15 4-Methylphenol

Concentration: 3,681 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

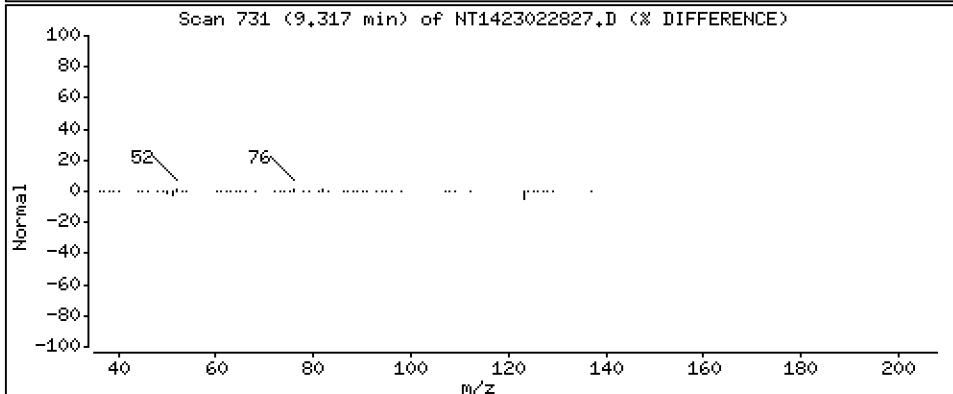
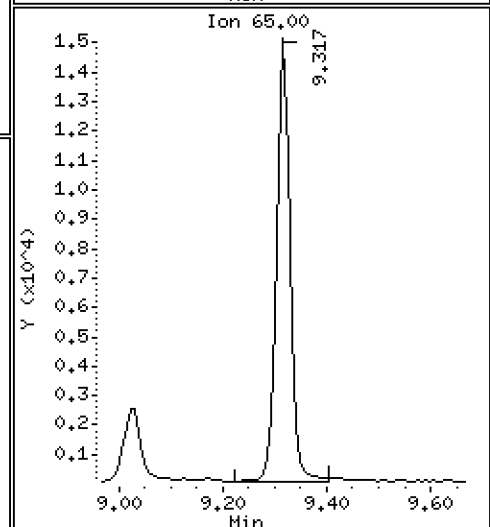
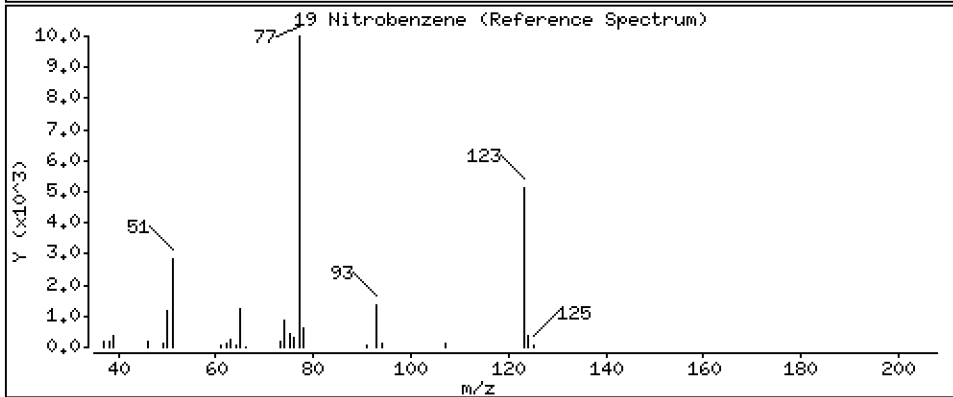
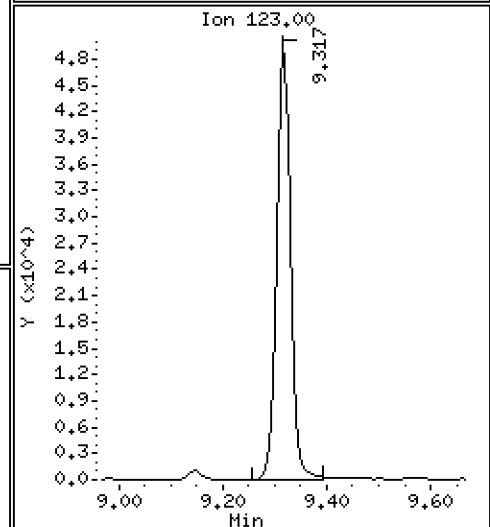
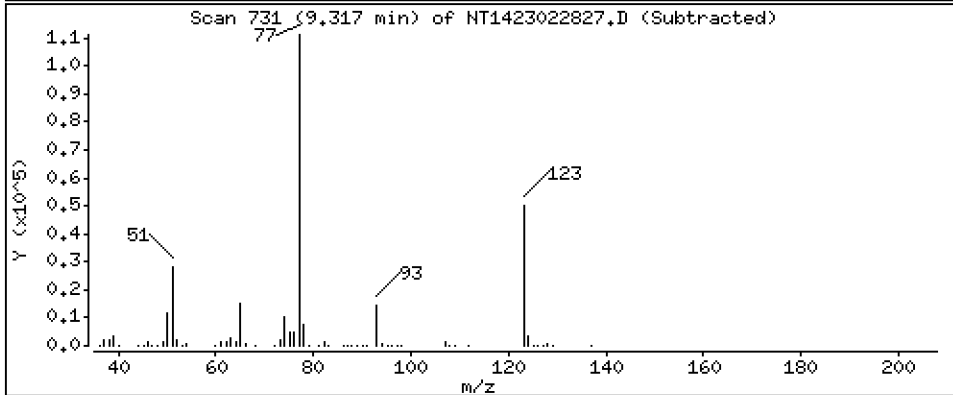
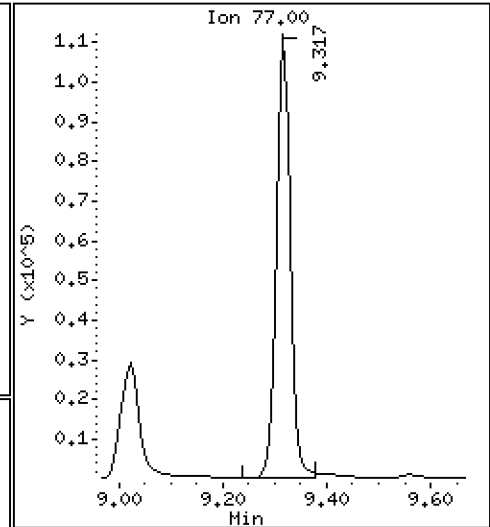
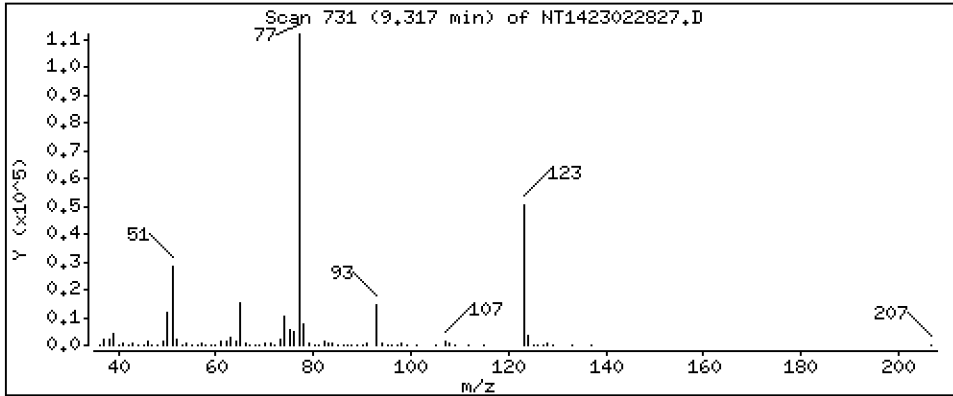
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

Concentration: 5,035 ug/mL

19 Nitrobenzene



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

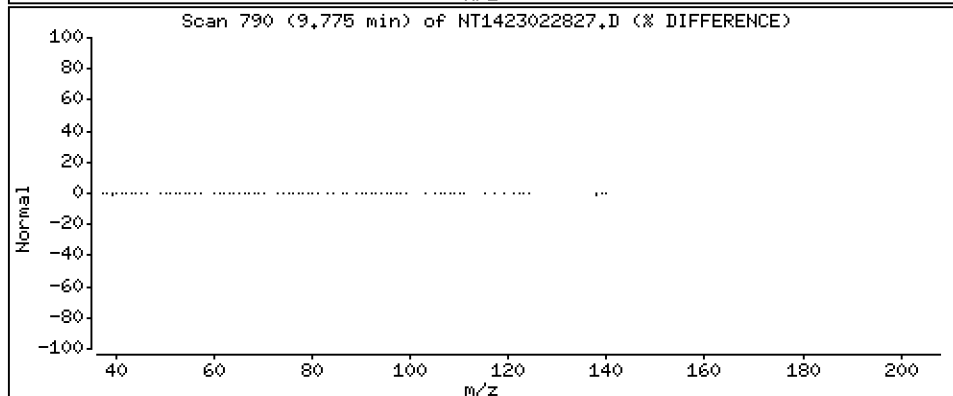
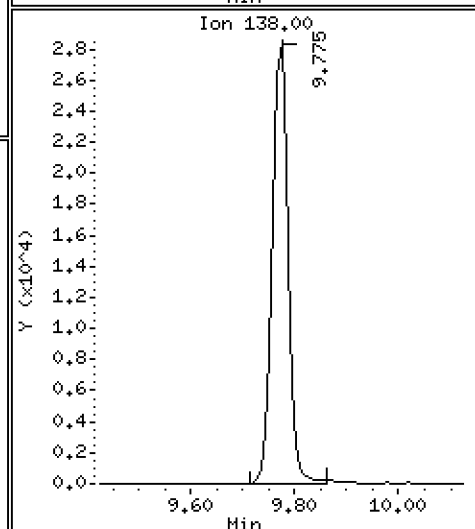
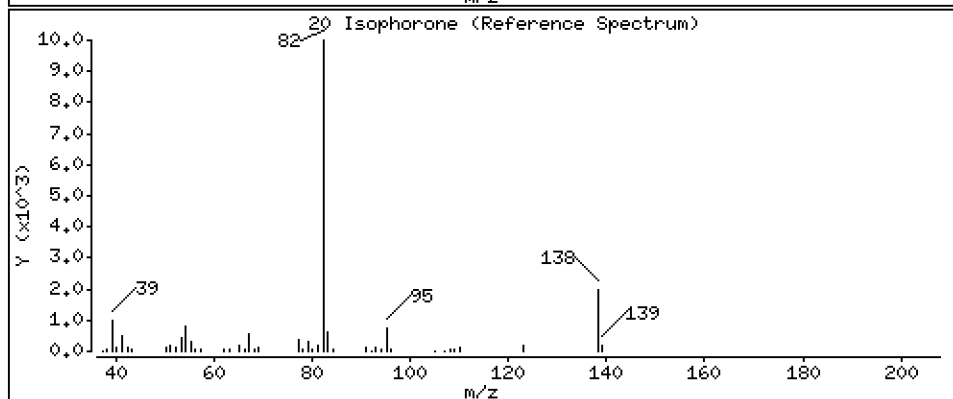
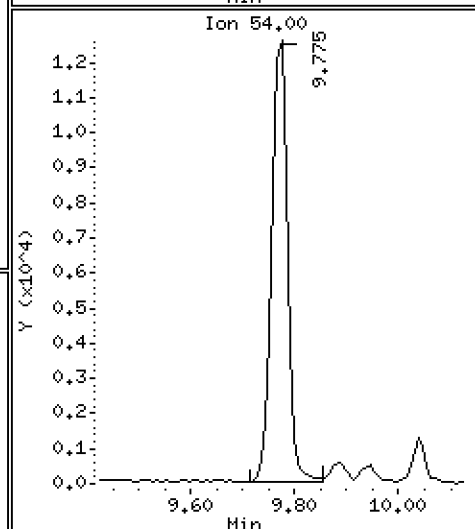
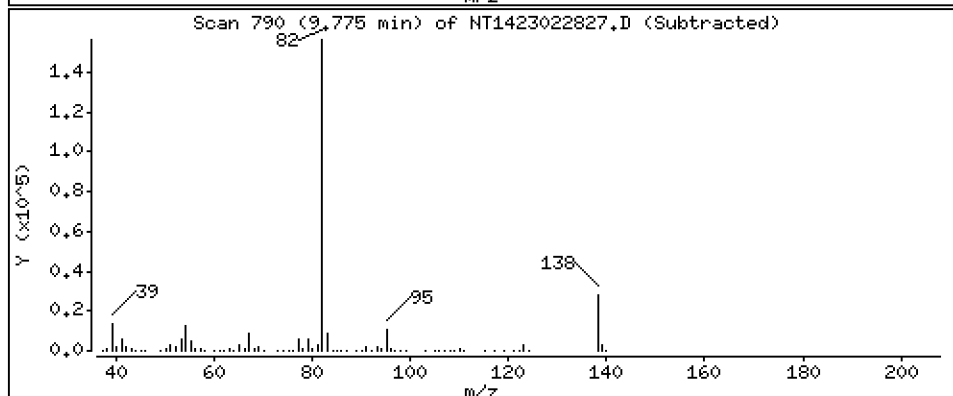
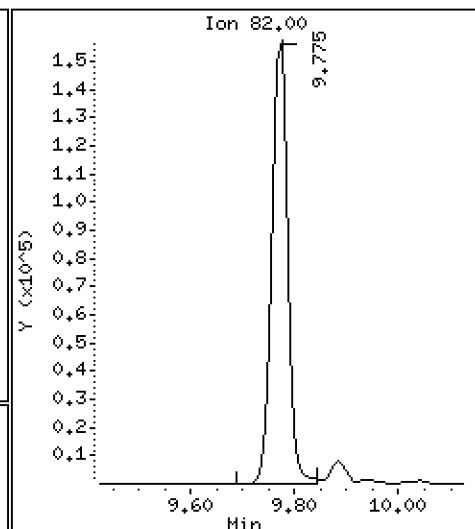
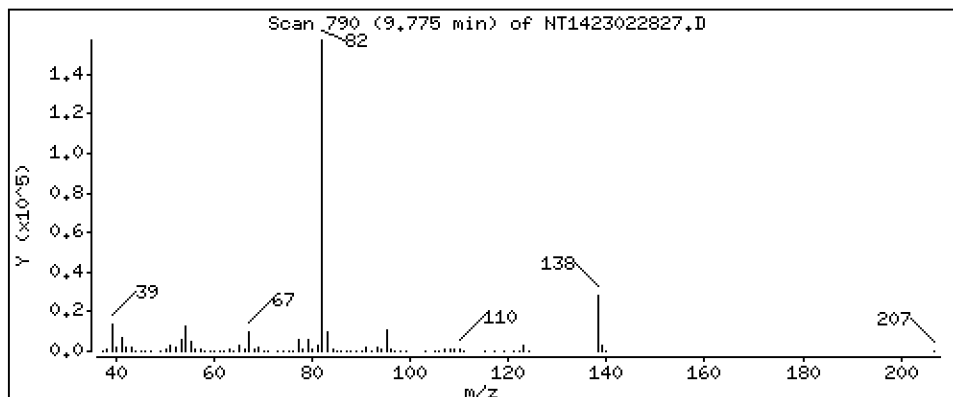
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

20 Isophorone

Concentration: 5,386 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

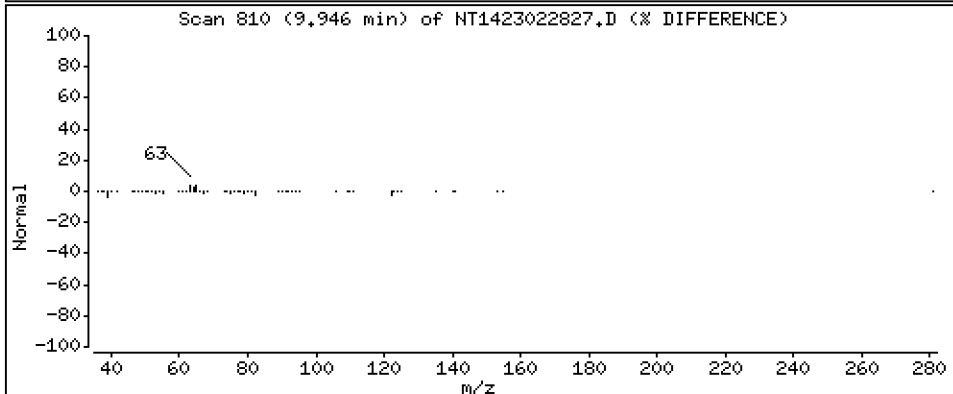
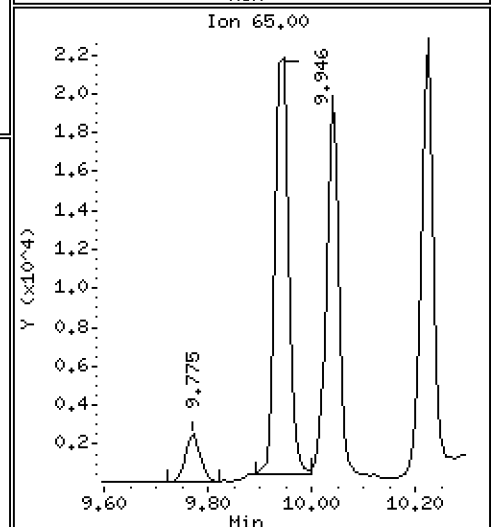
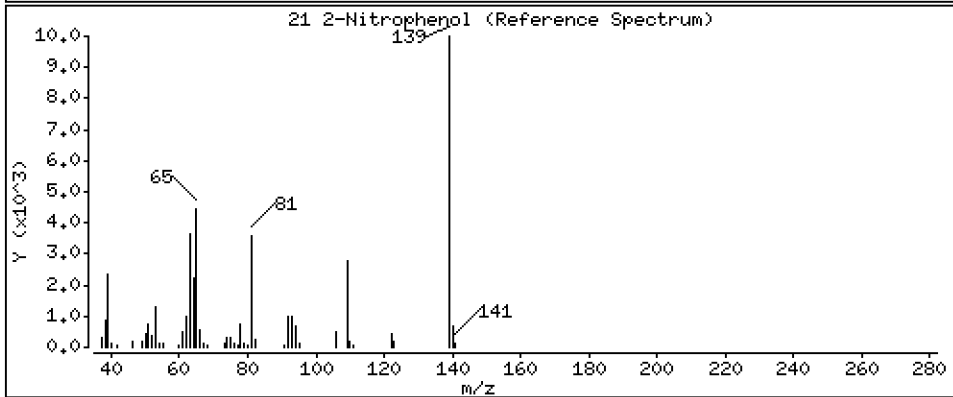
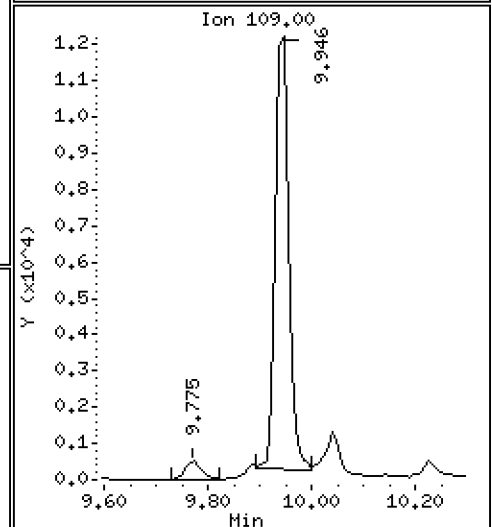
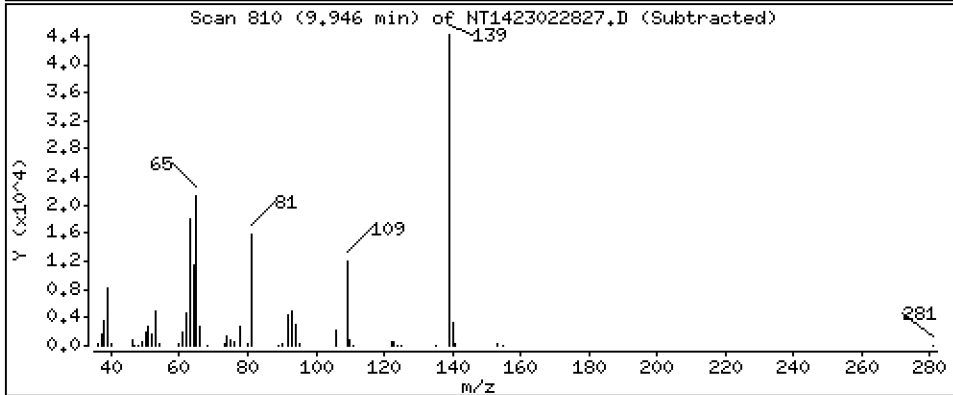
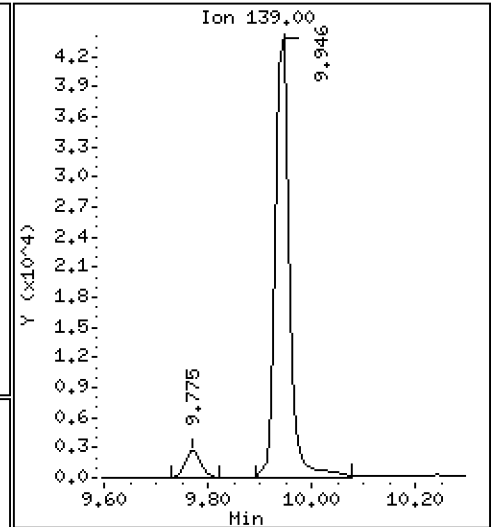
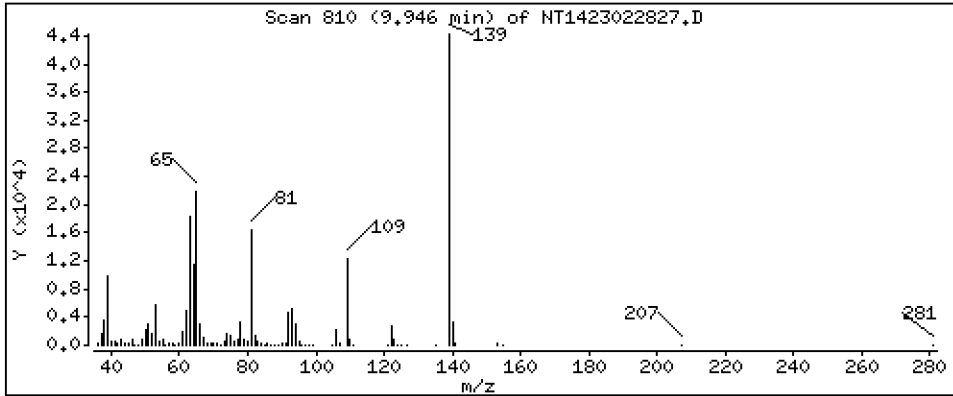
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

21 2-Nitrophenol

Concentration: 4,250 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

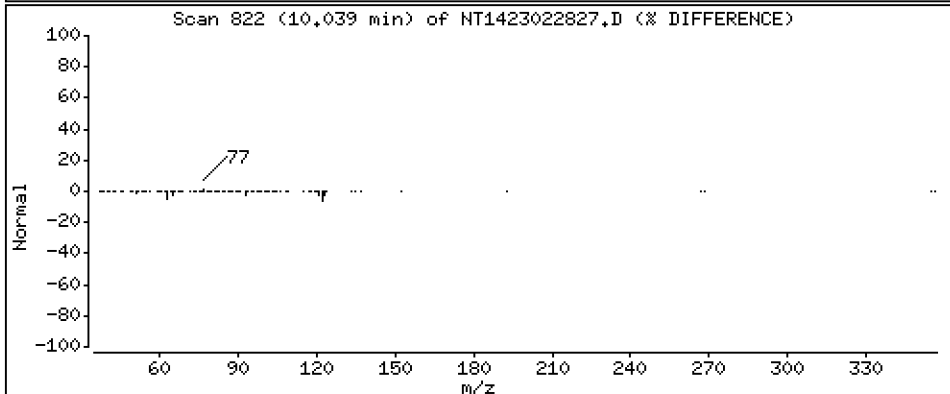
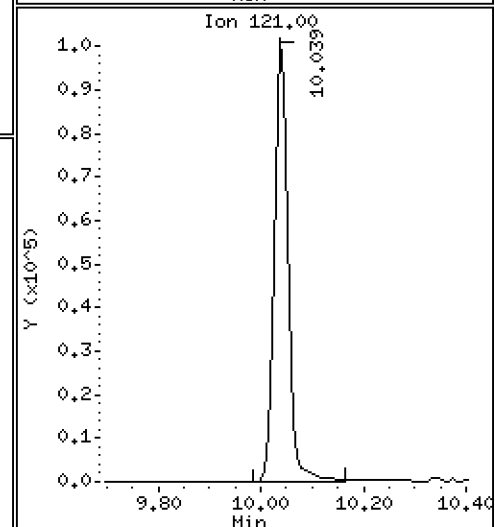
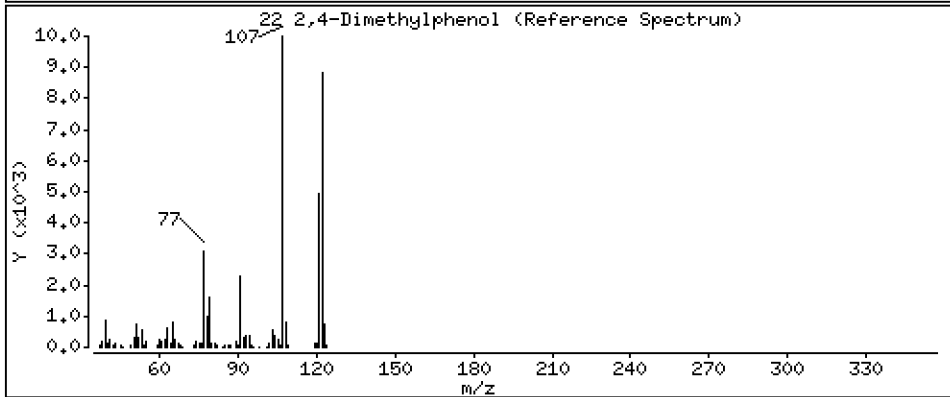
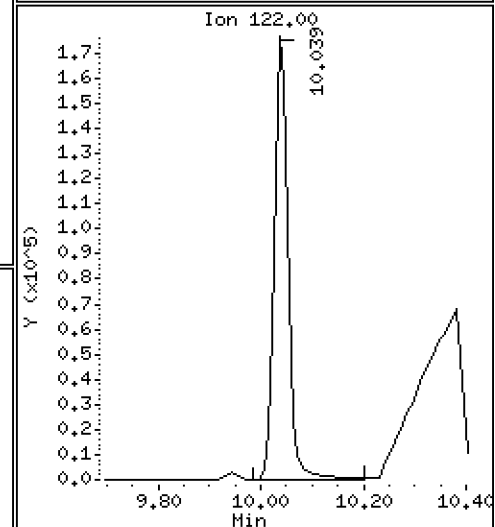
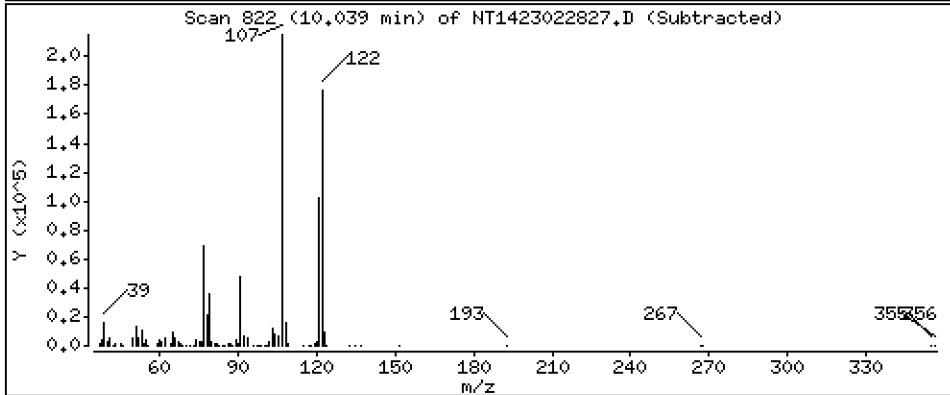
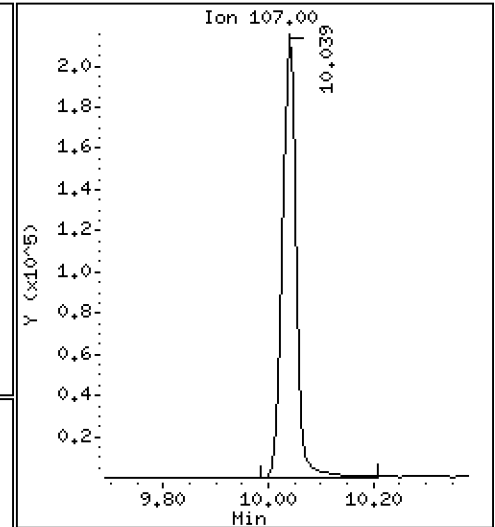
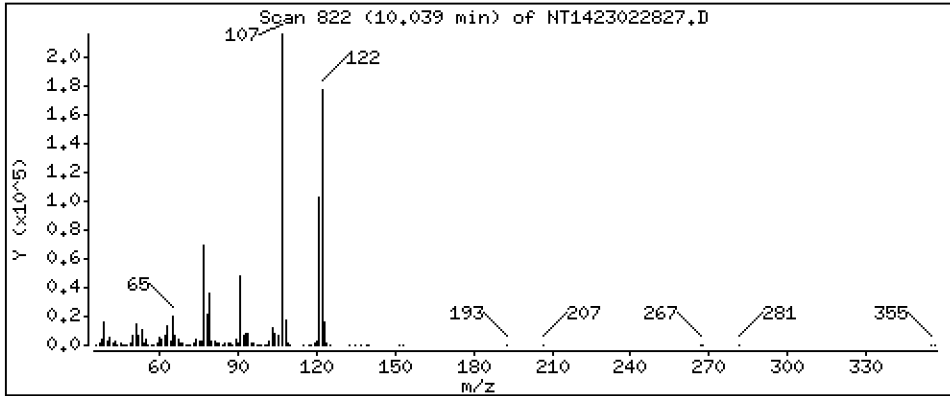
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 10,72 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

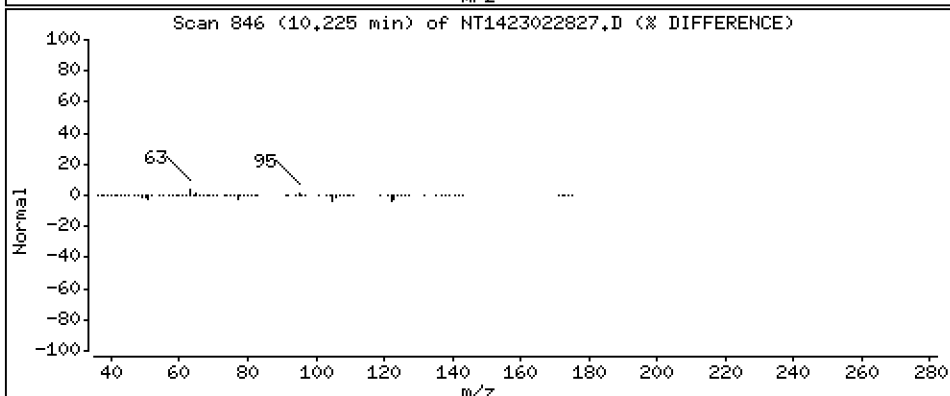
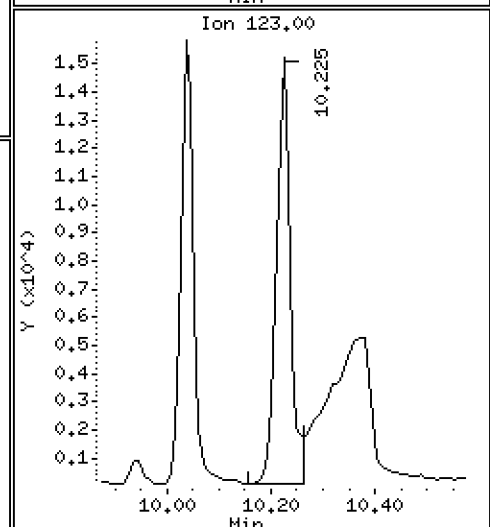
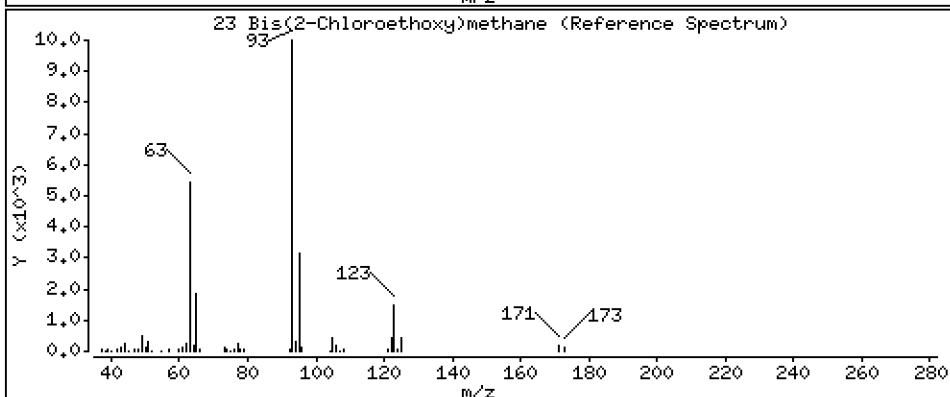
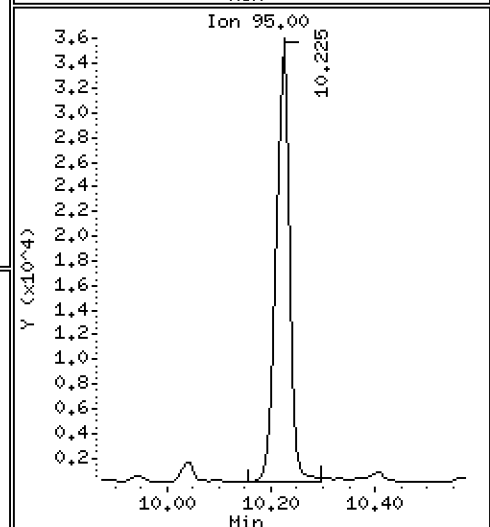
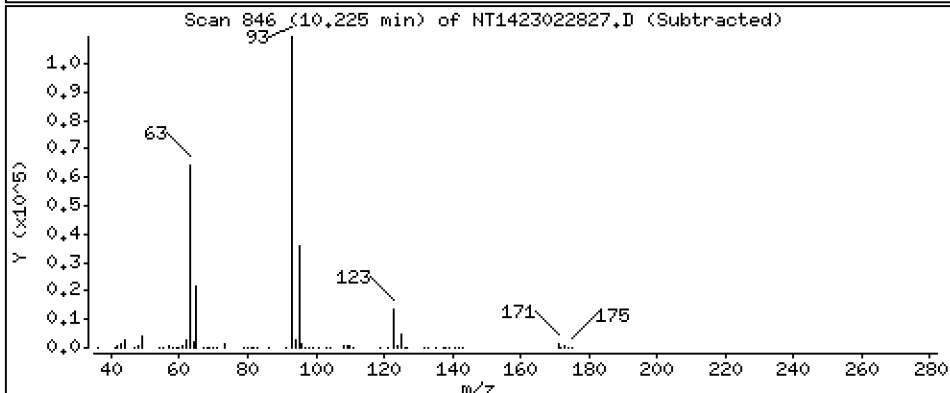
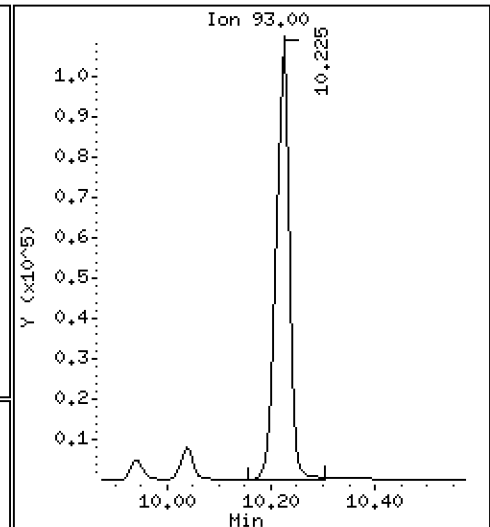
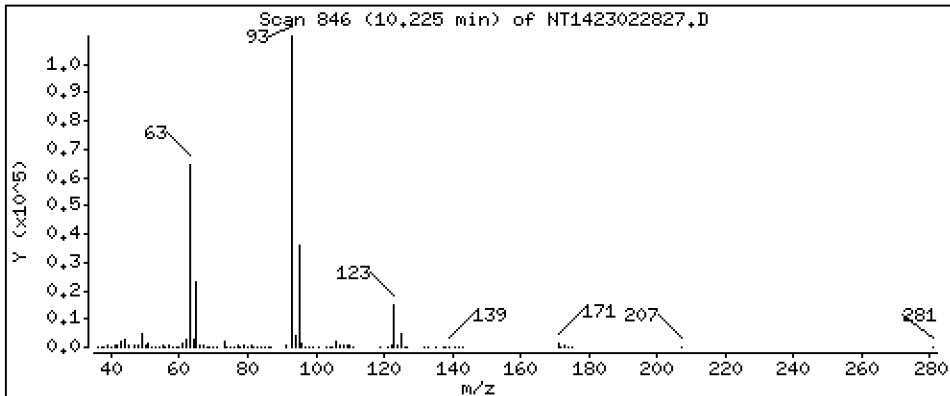
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

23 Bis(2-Chloroethoxy)methane

Concentration: 4,808 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

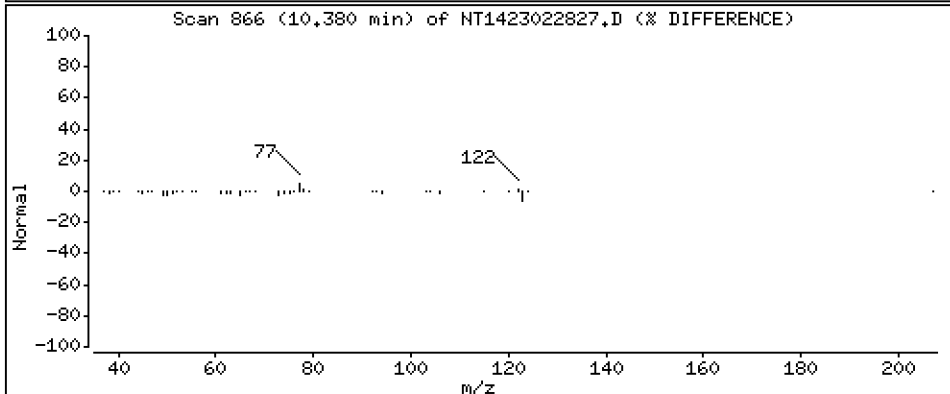
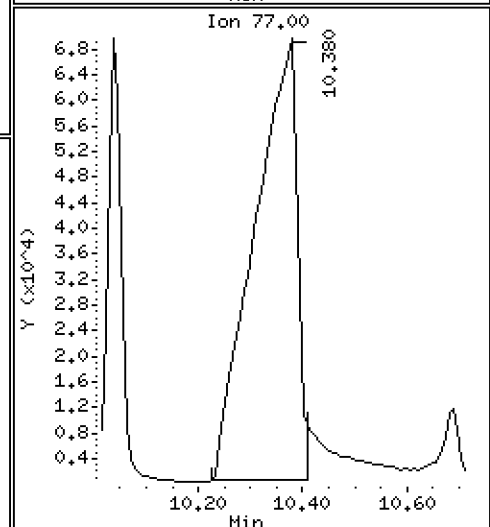
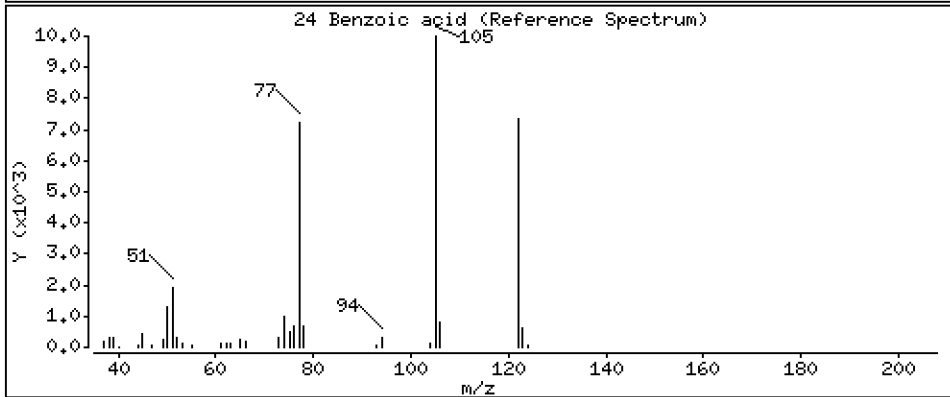
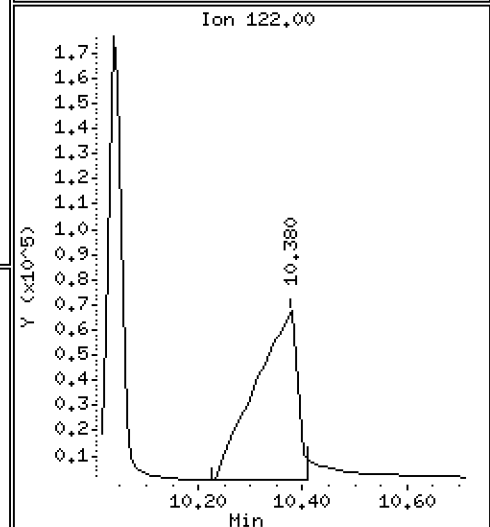
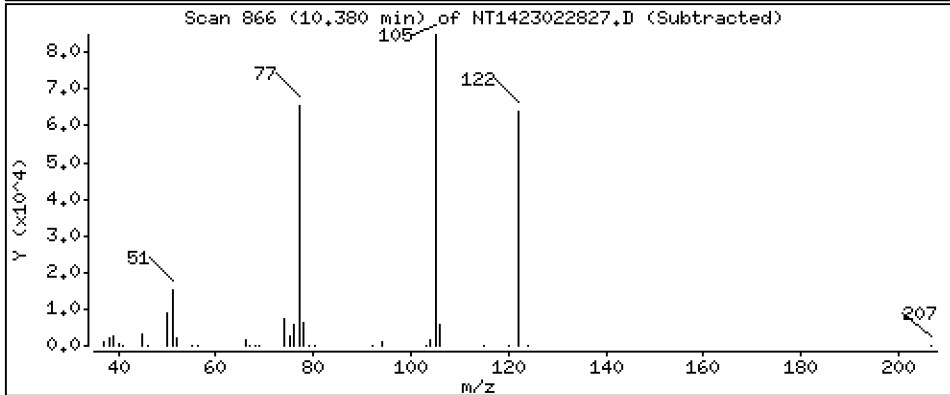
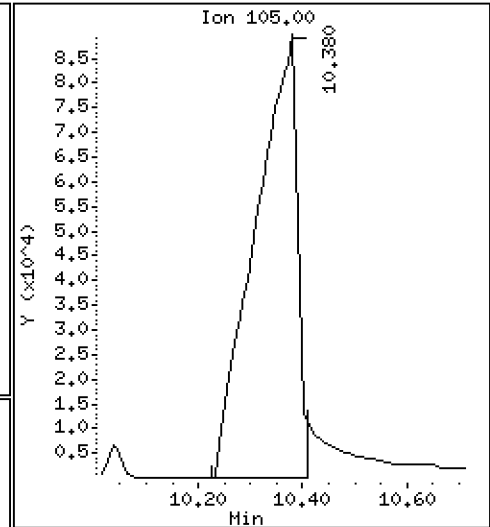
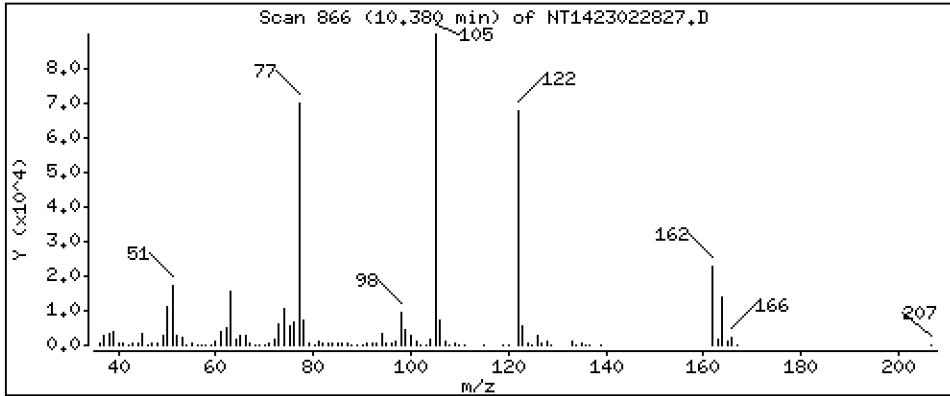
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

24 Benzoic acid

Concentration: 35,55 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

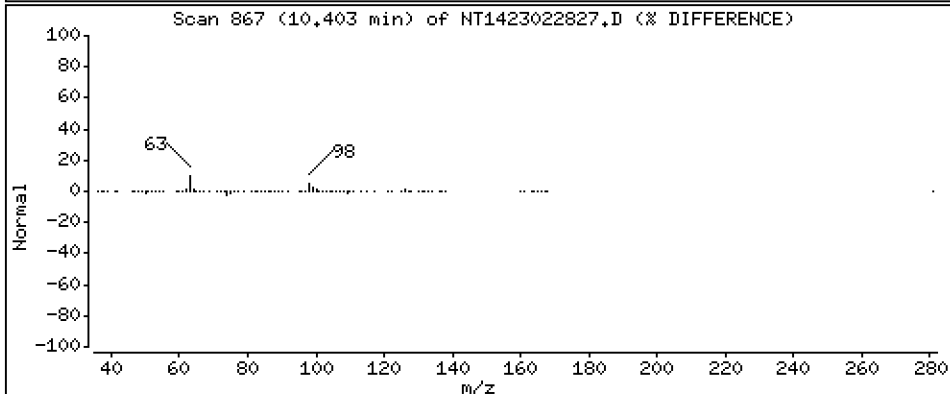
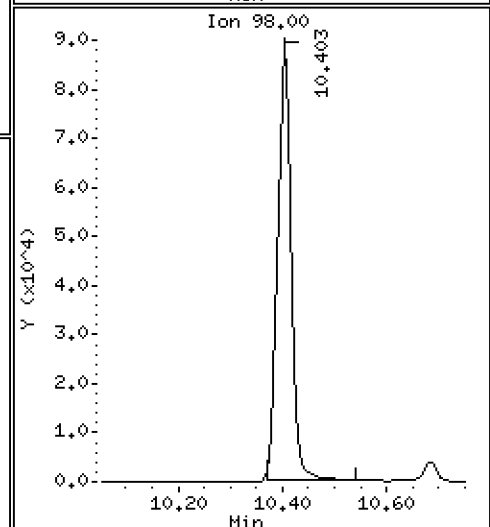
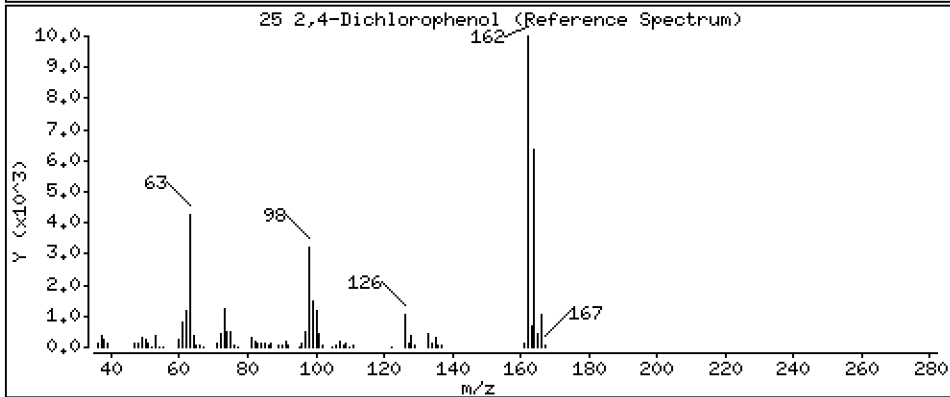
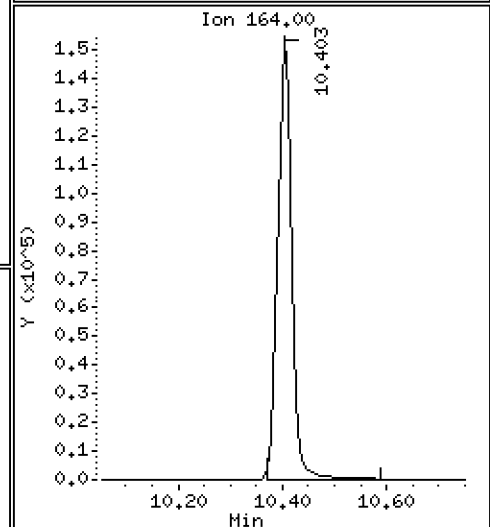
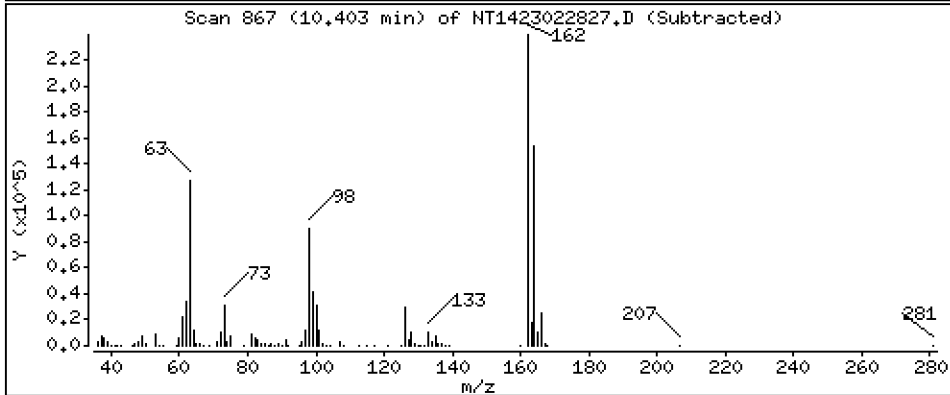
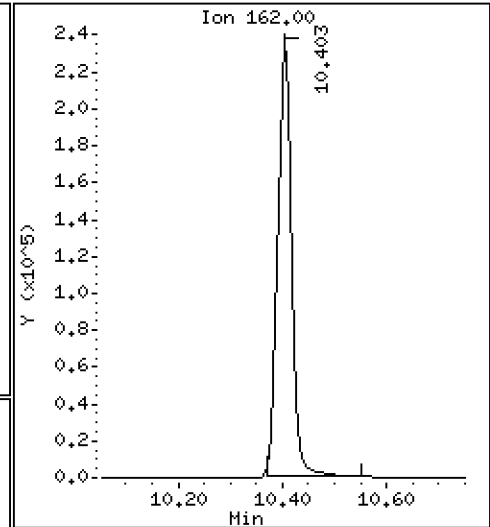
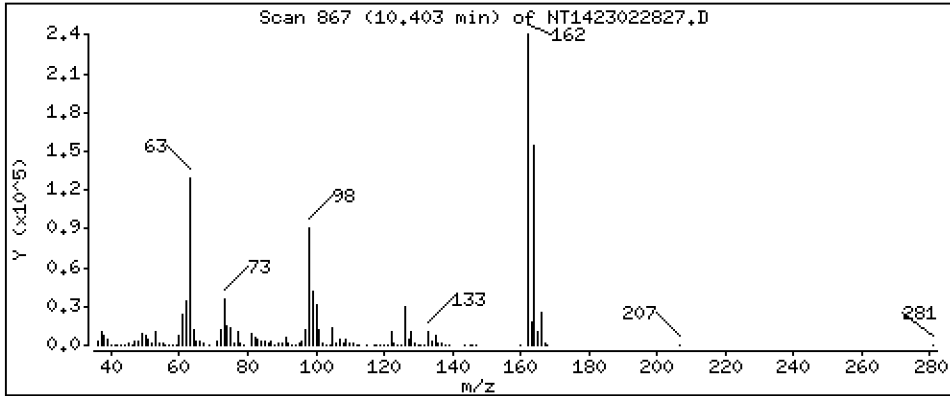
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 9,880 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

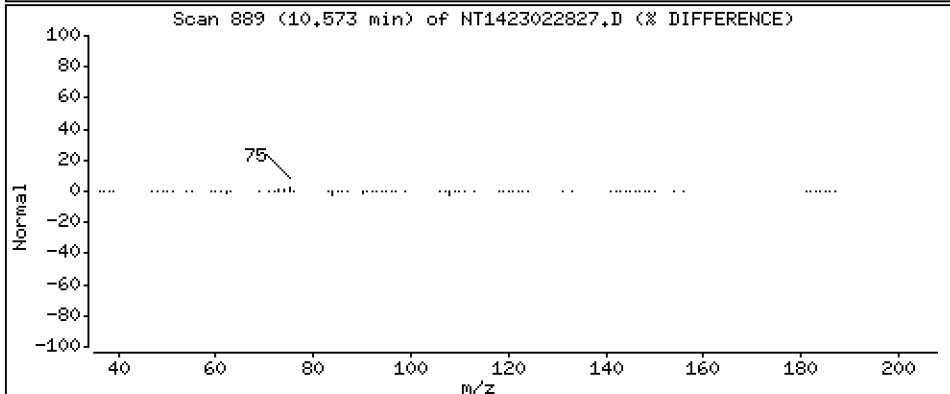
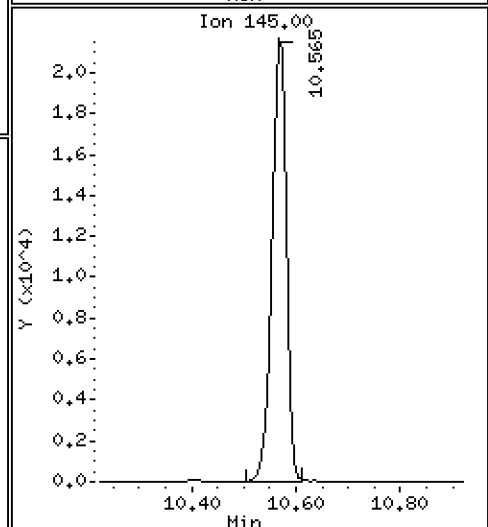
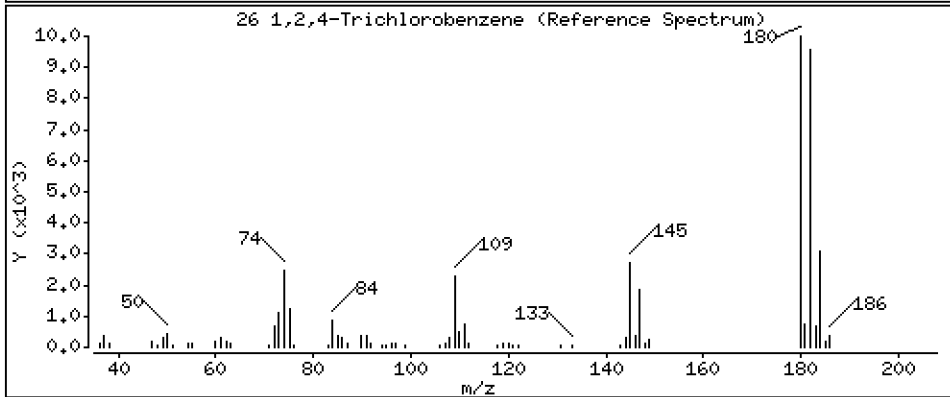
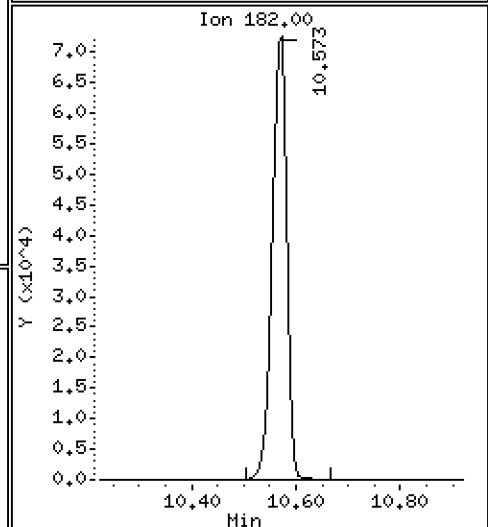
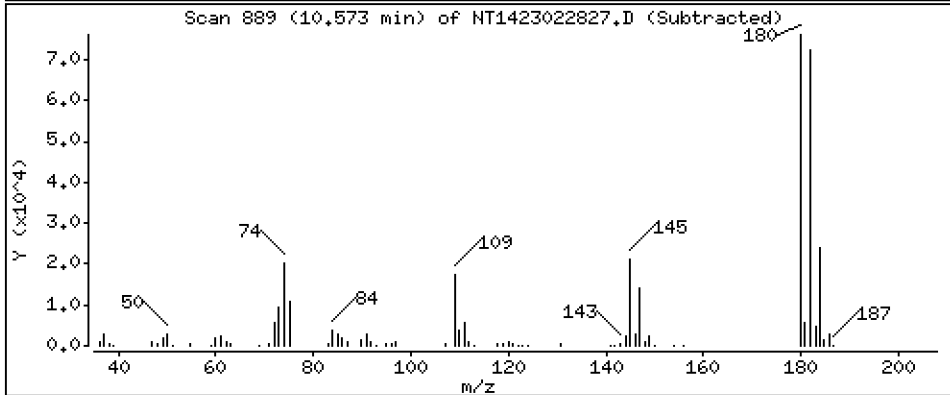
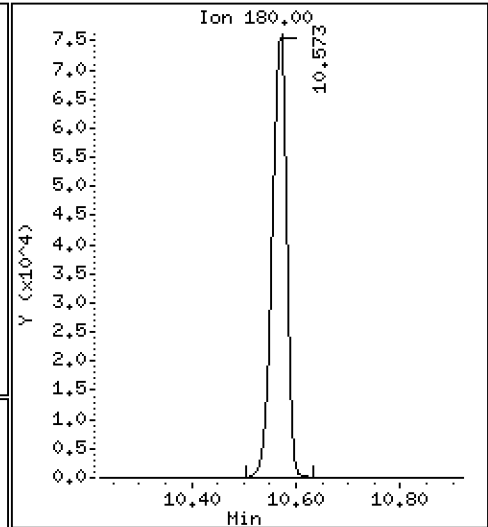
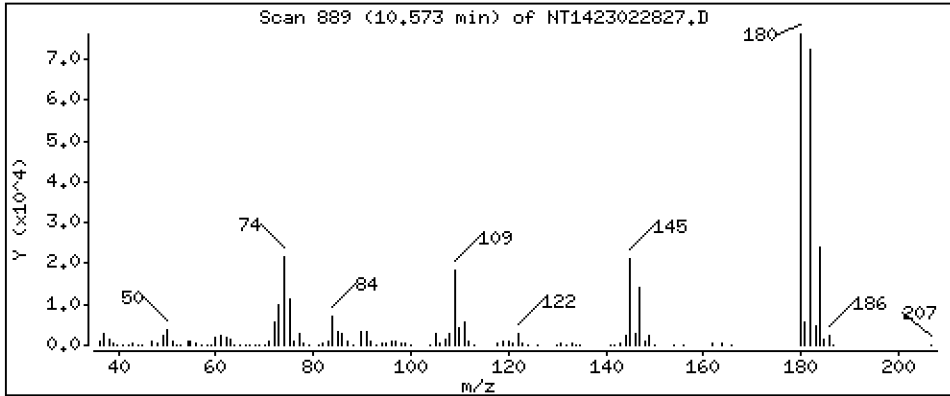
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 3,545 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

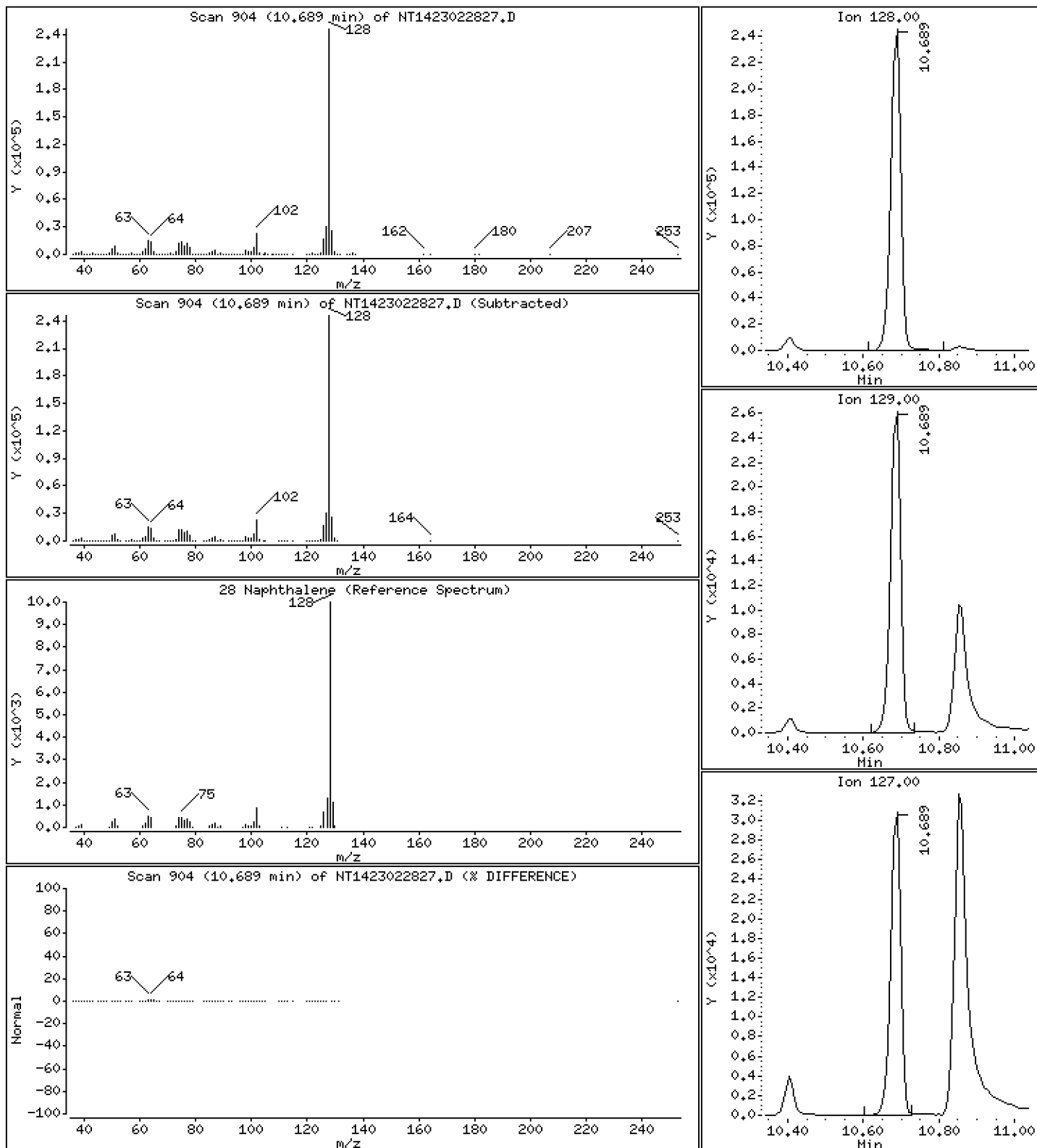
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 3,919 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

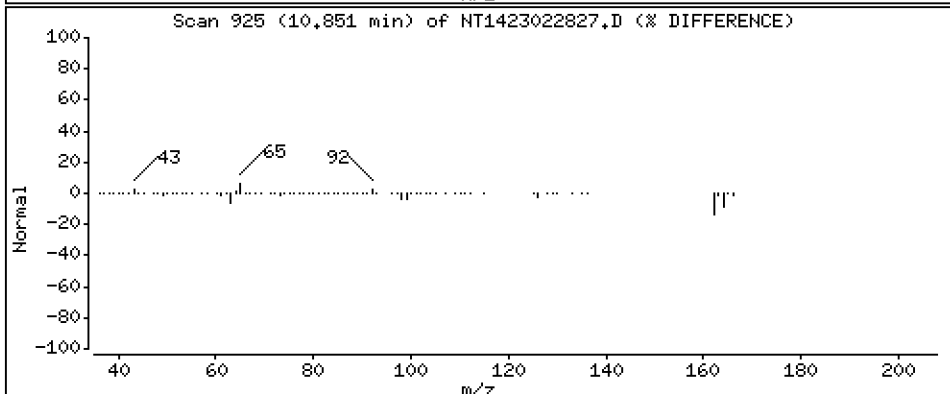
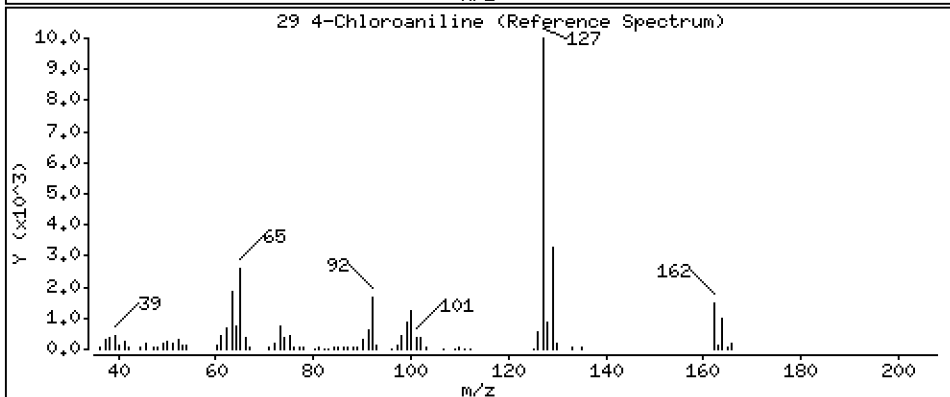
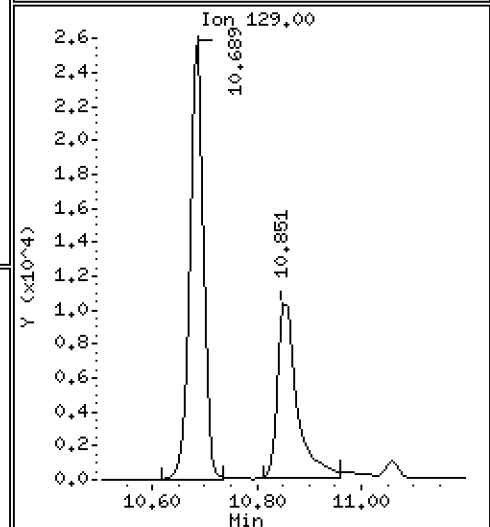
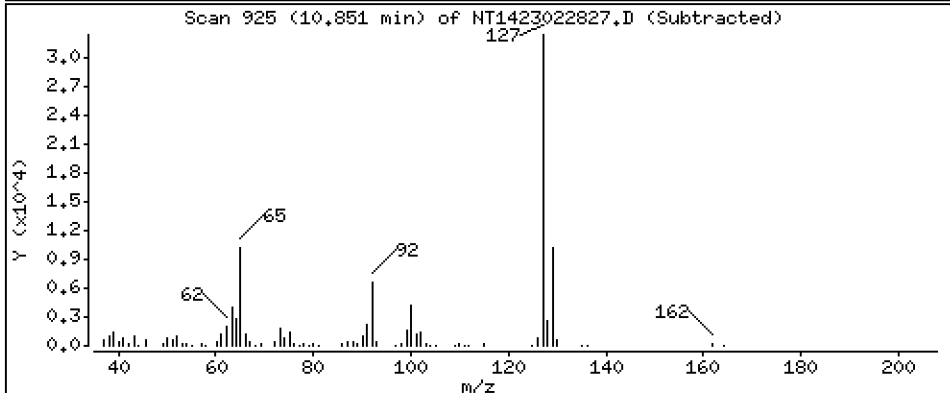
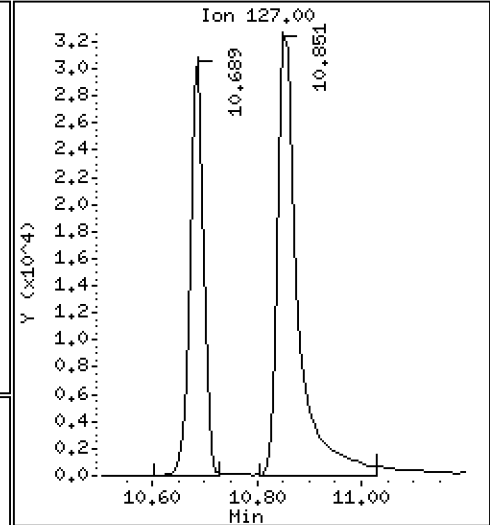
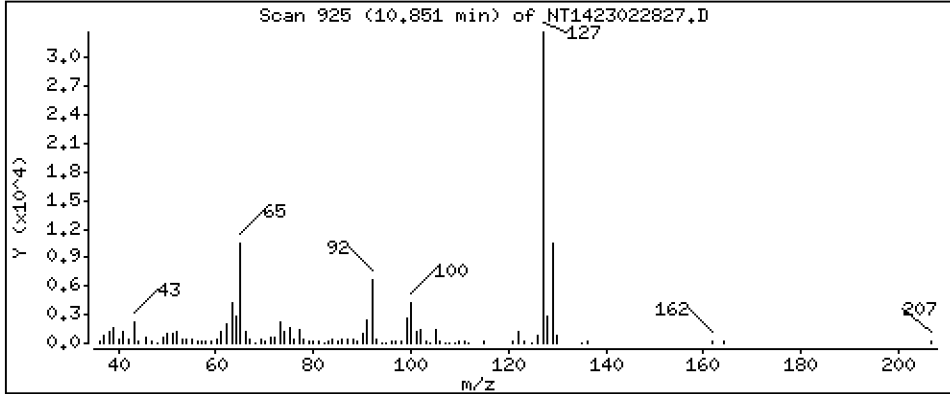
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

29 4-Chloroaniline

Concentration: 1,954 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

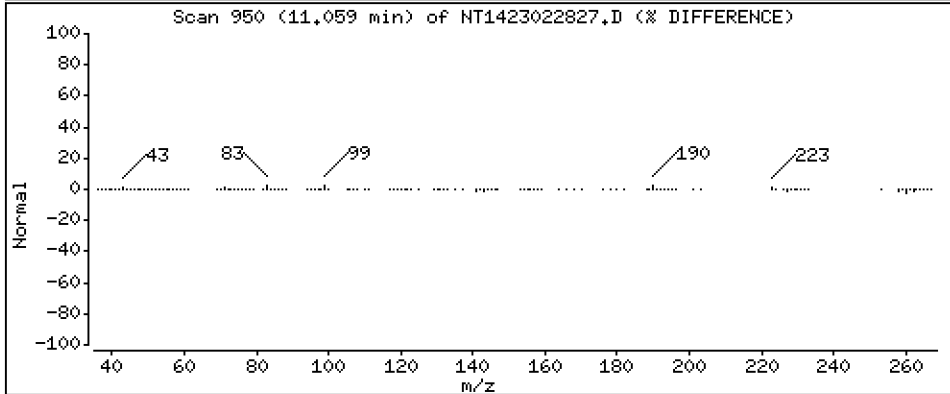
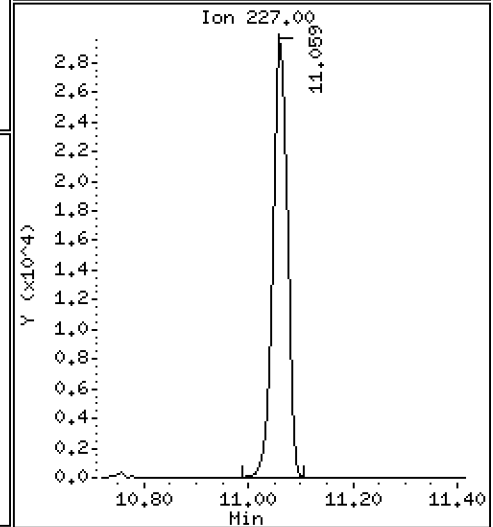
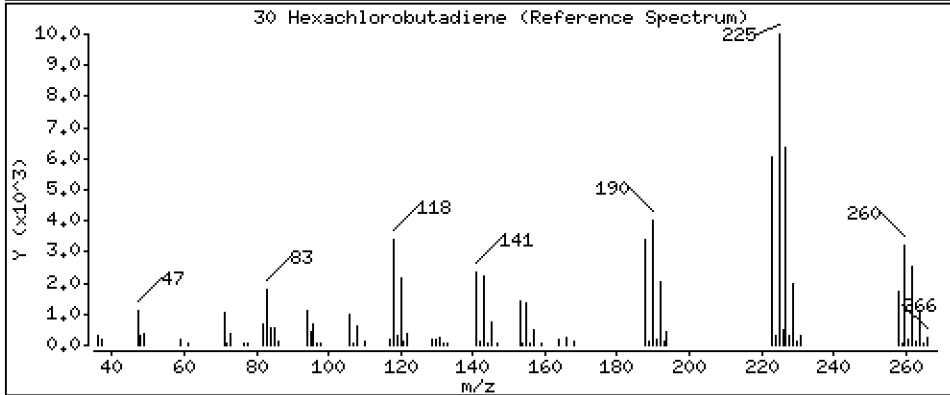
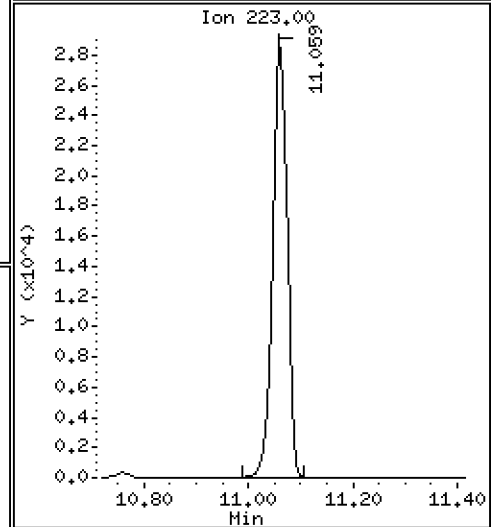
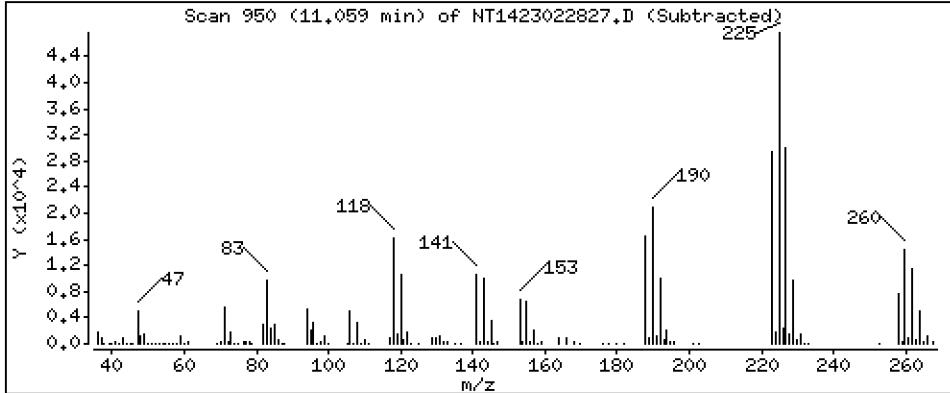
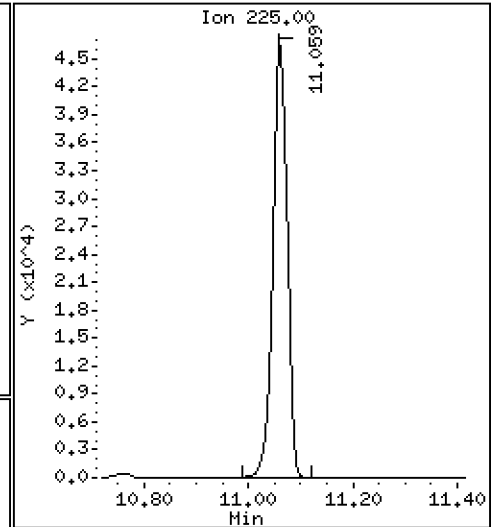
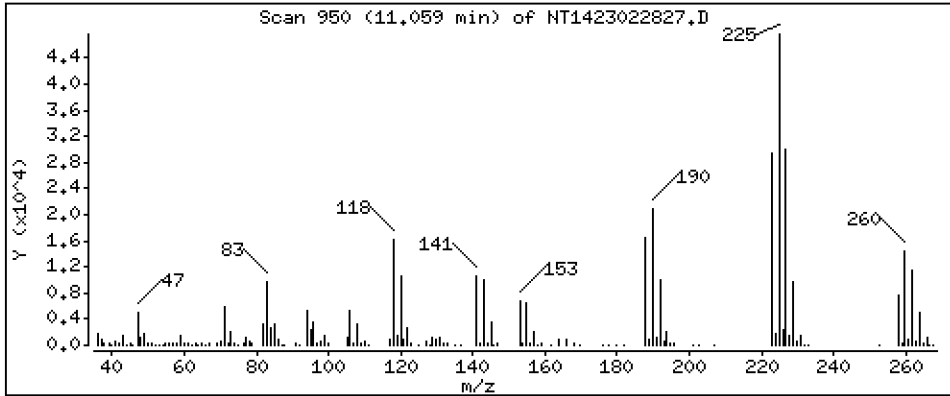
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 4,019 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

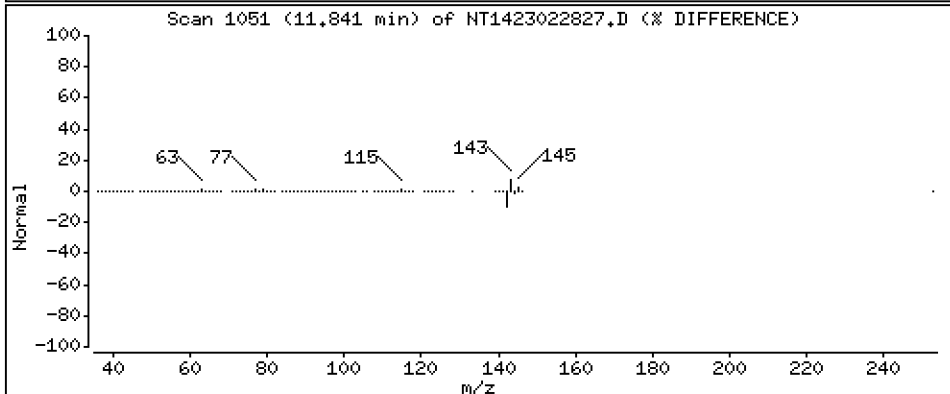
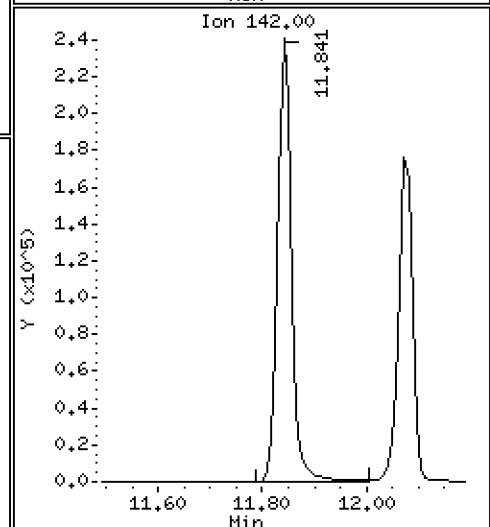
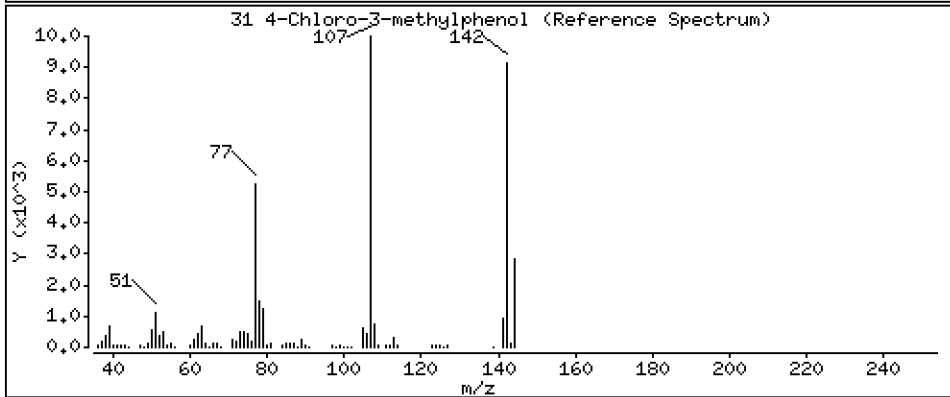
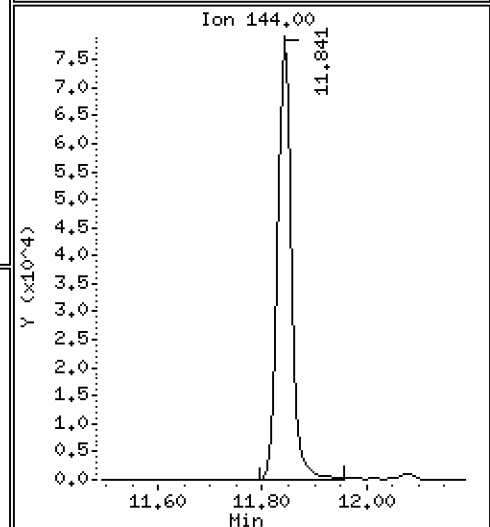
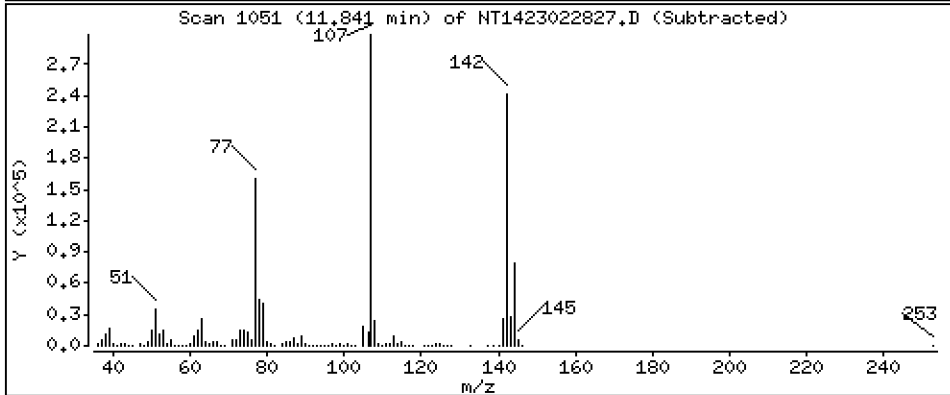
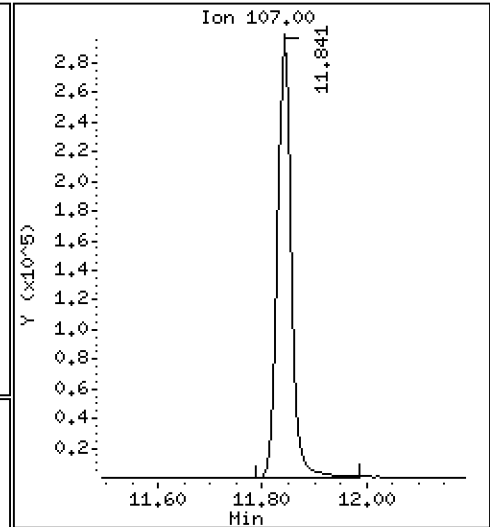
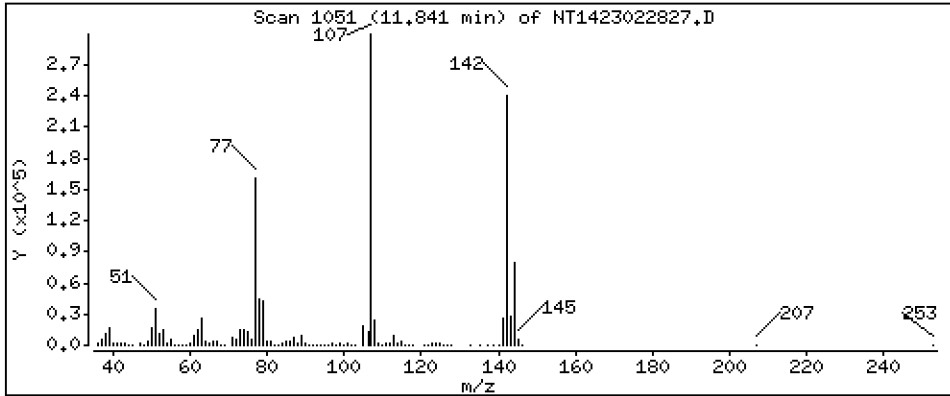
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

31 4-Chloro-3-methylphenol

Concentration: 16,50 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

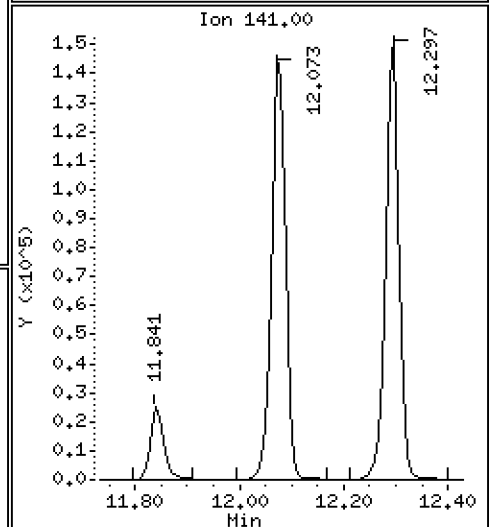
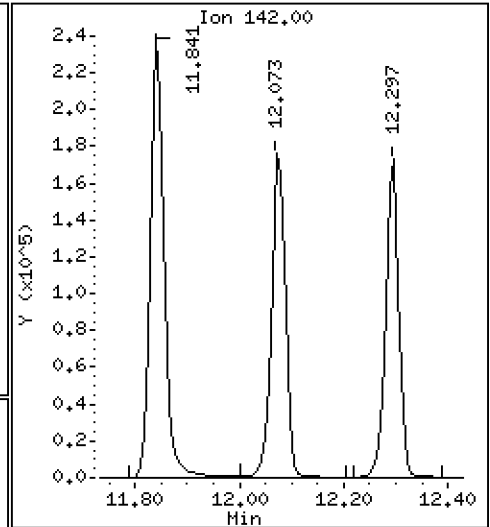
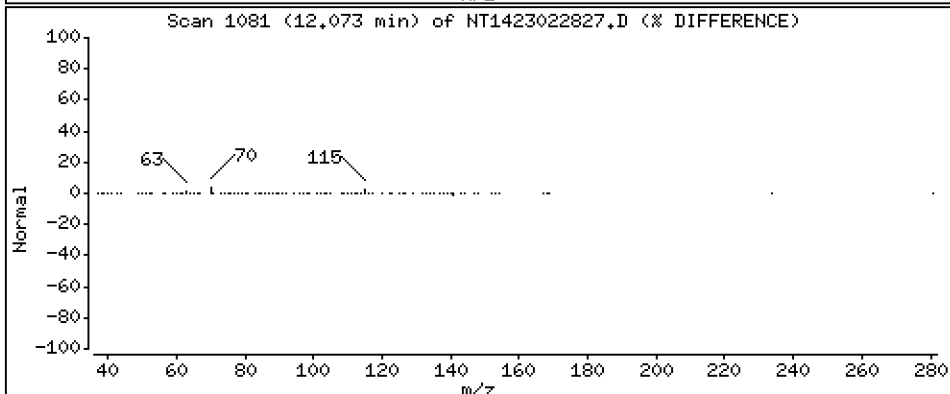
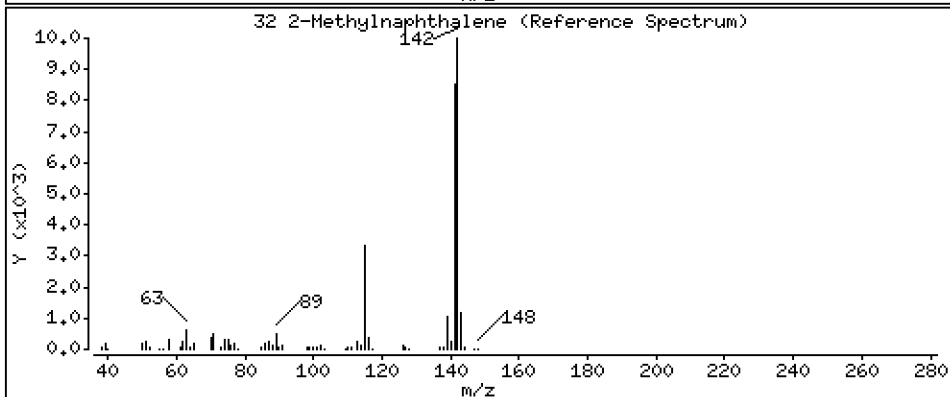
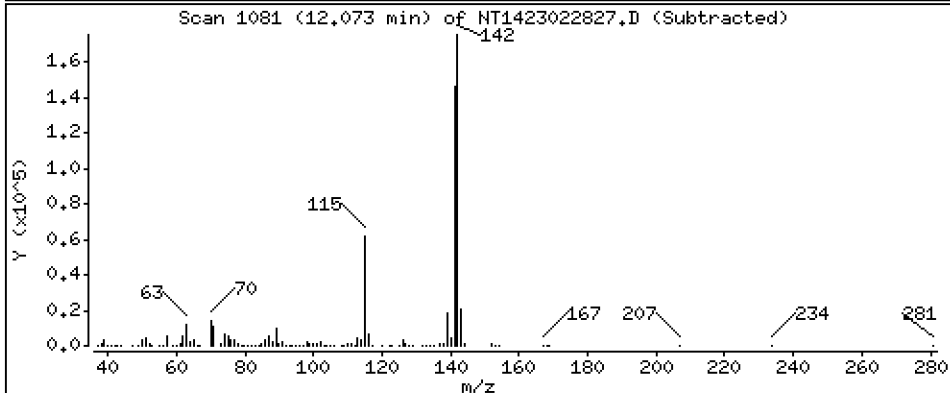
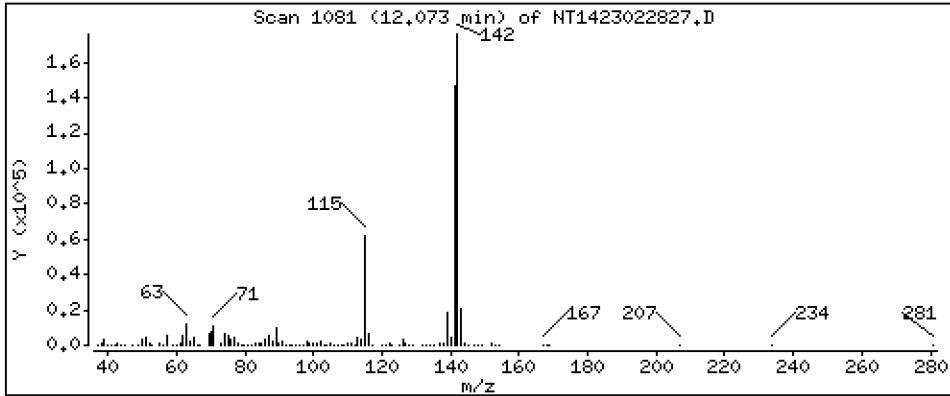
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 3,832 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

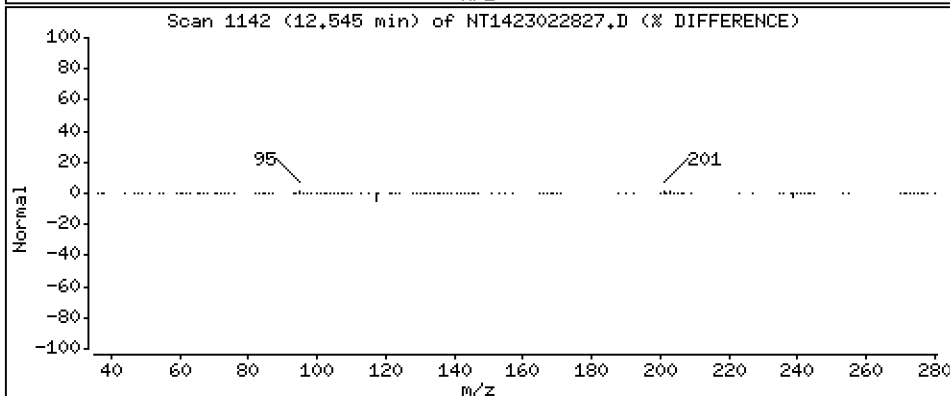
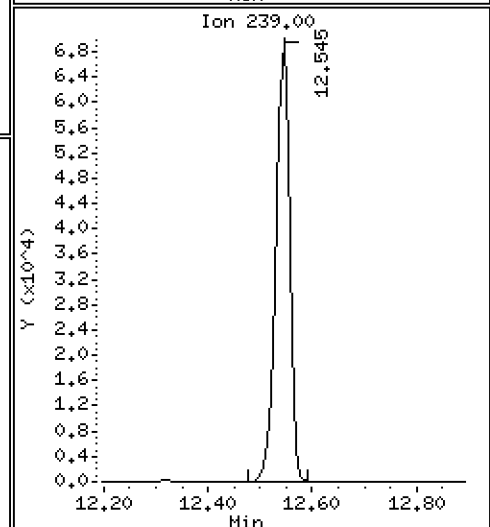
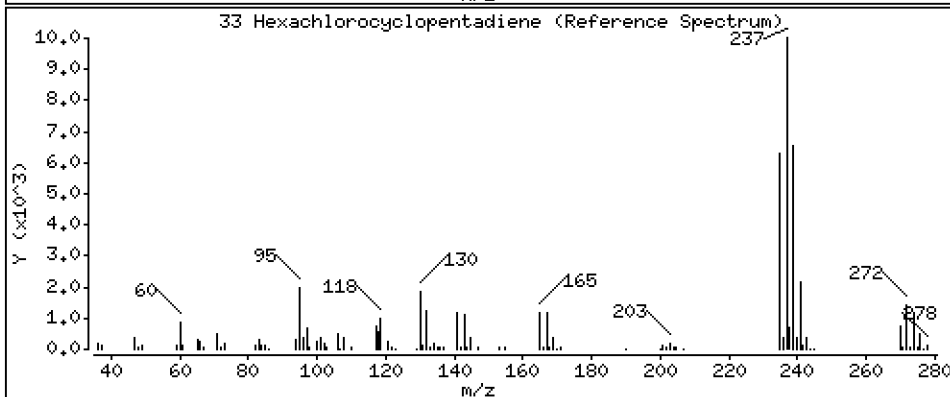
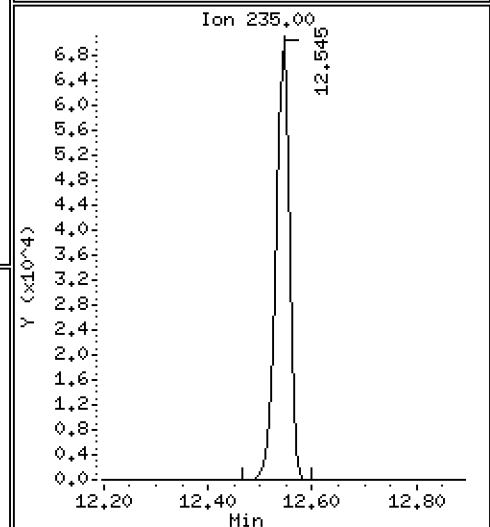
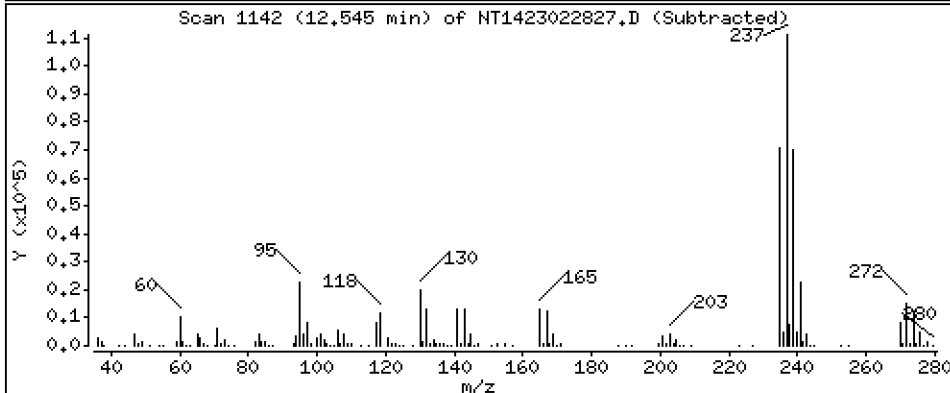
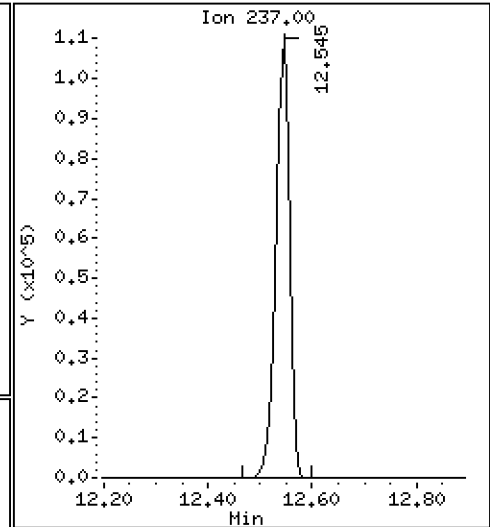
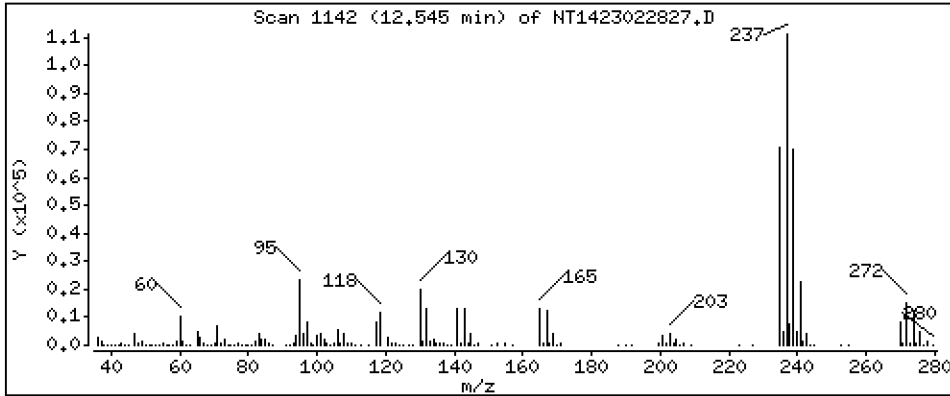
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

33 Hexachlorocyclopentadiene

Concentration: 7,331 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

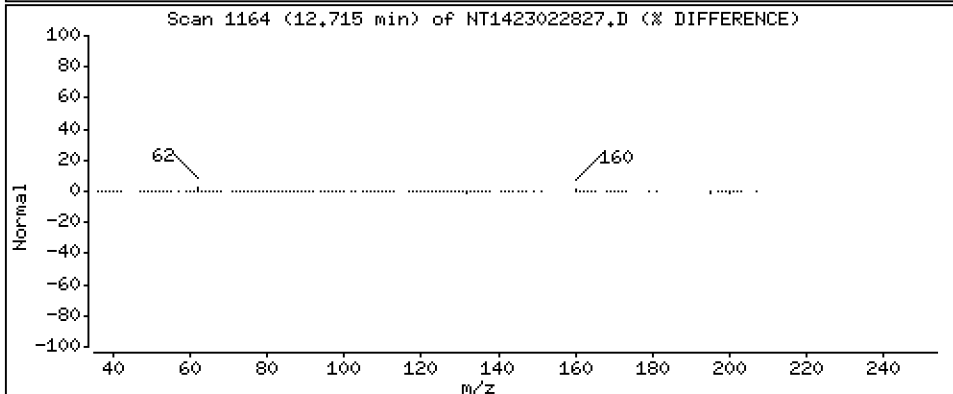
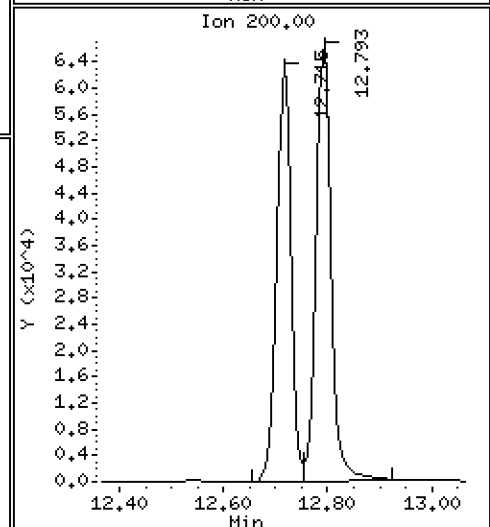
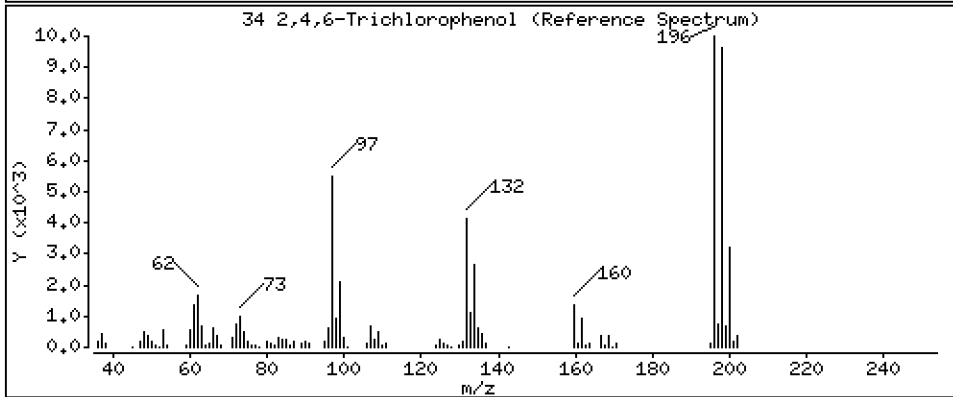
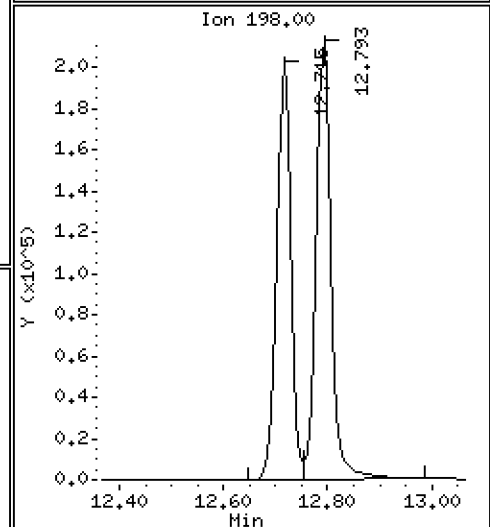
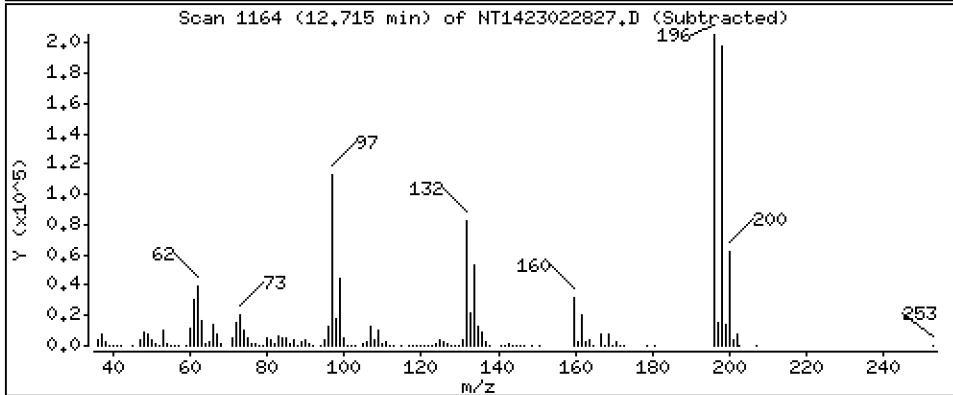
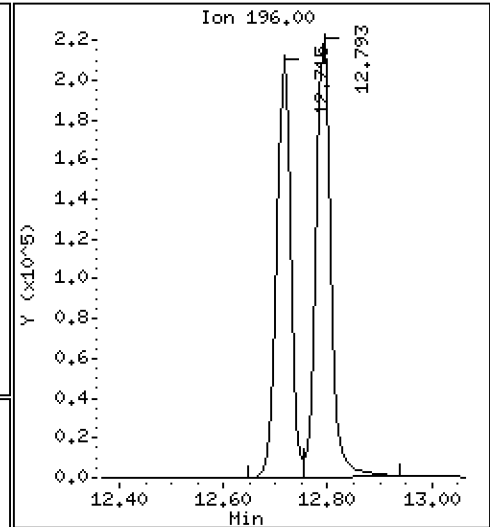
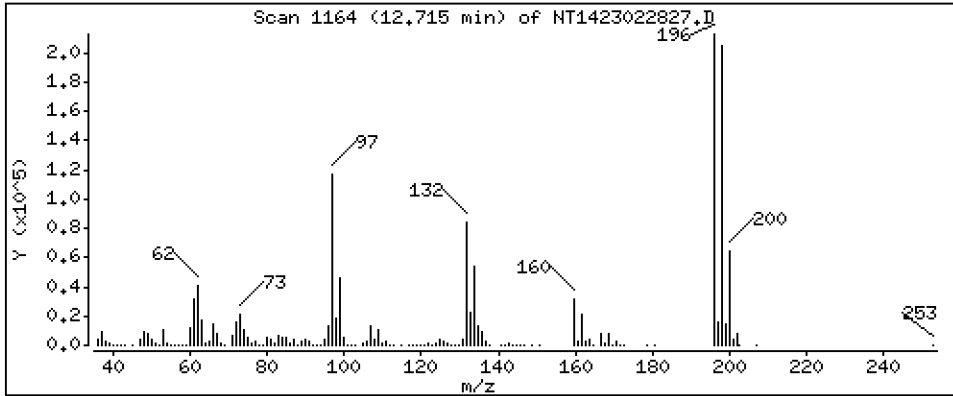
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

34 2,4,6-Trichlorophenol

Concentration: 15,74 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

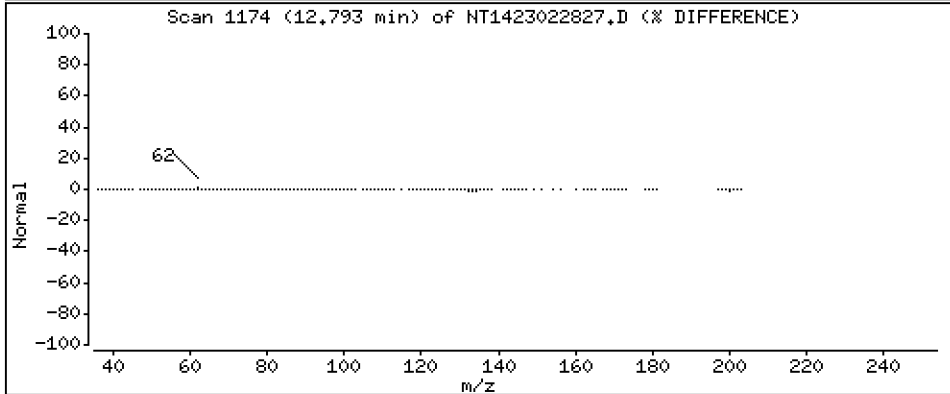
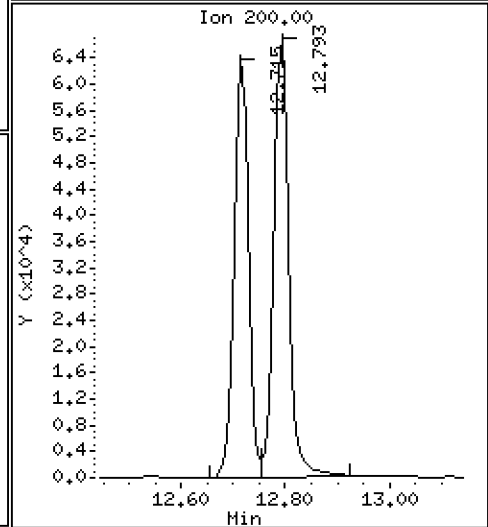
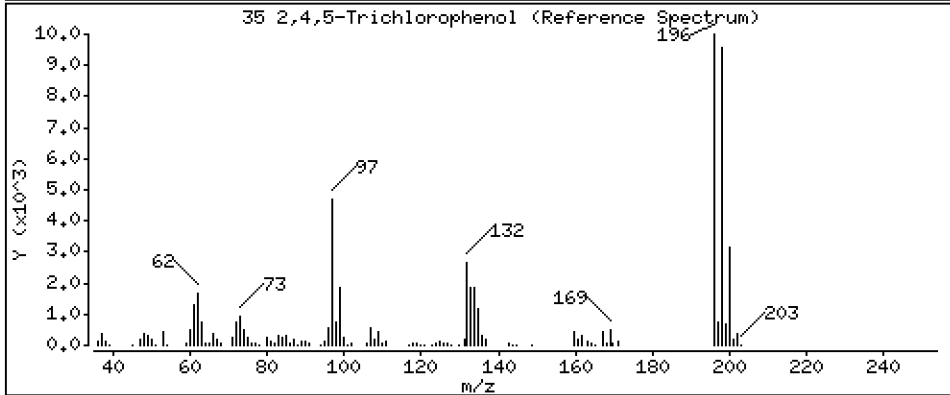
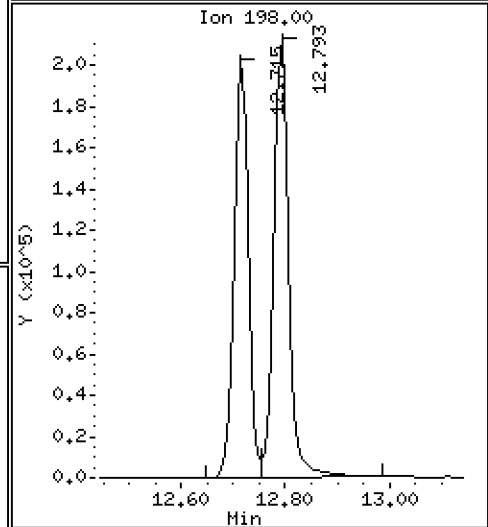
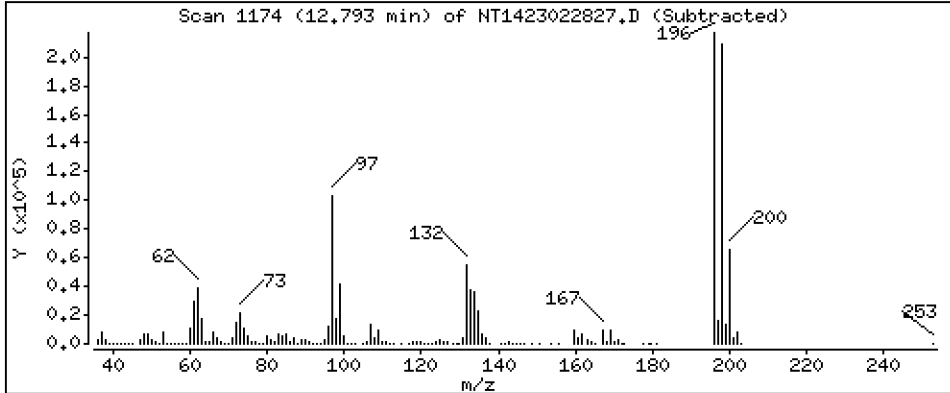
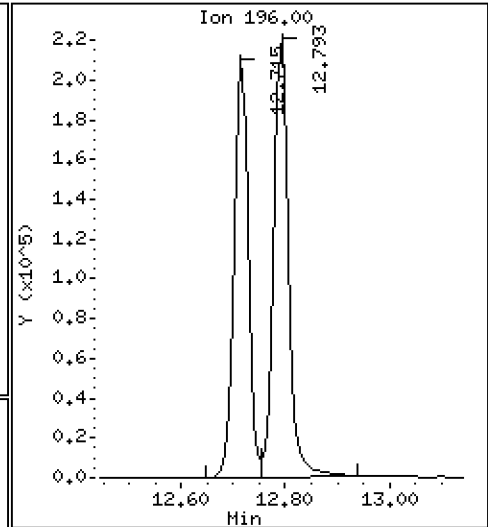
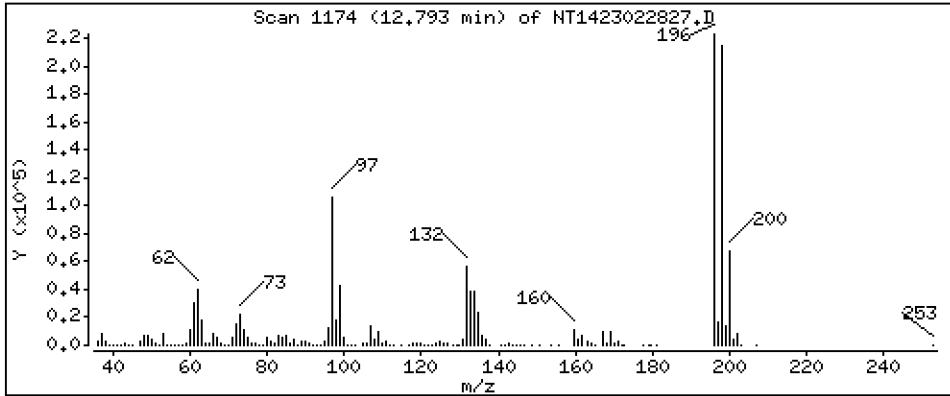
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

35 2,4,5-Trichlorophenol

Concentration: 16,02 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

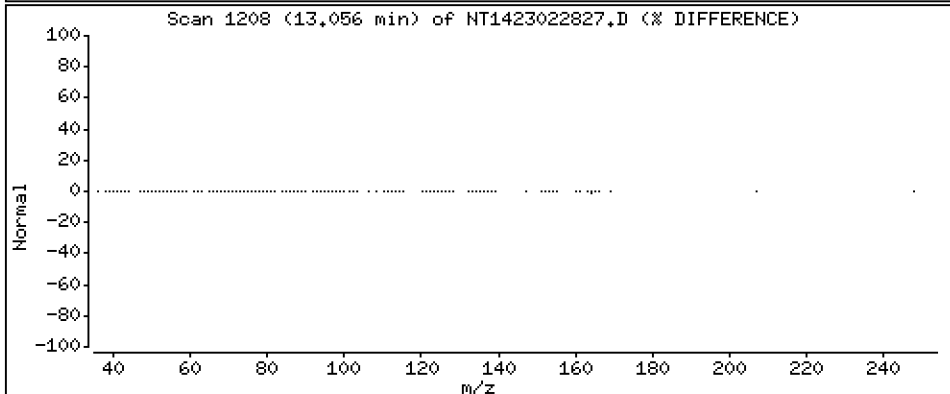
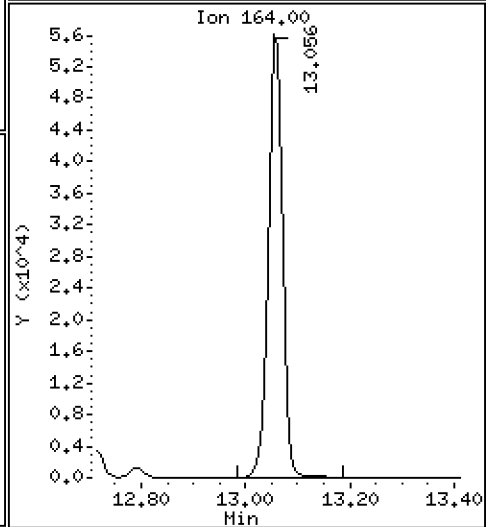
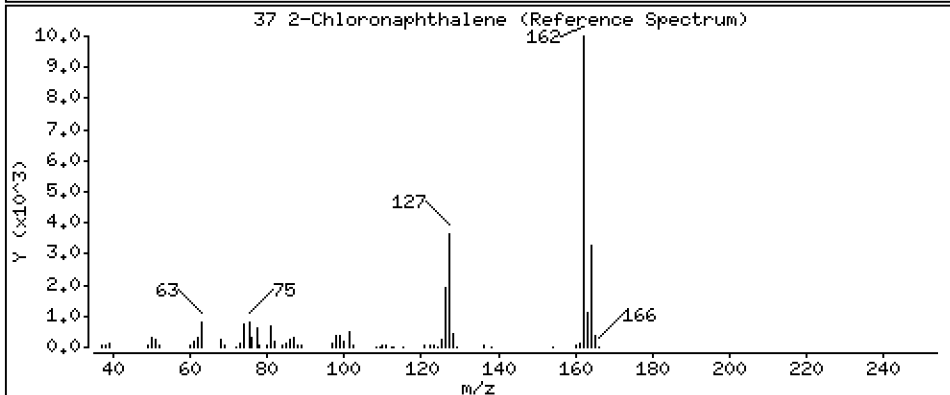
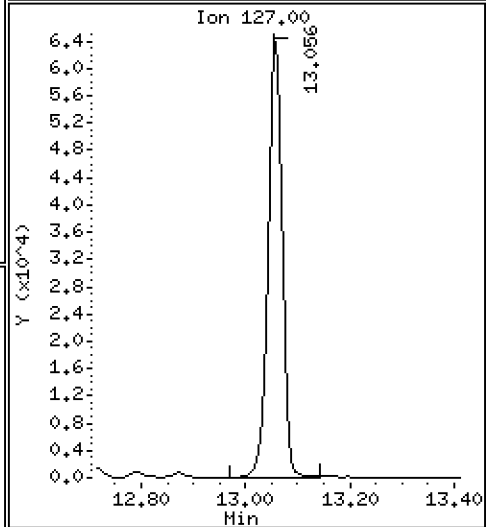
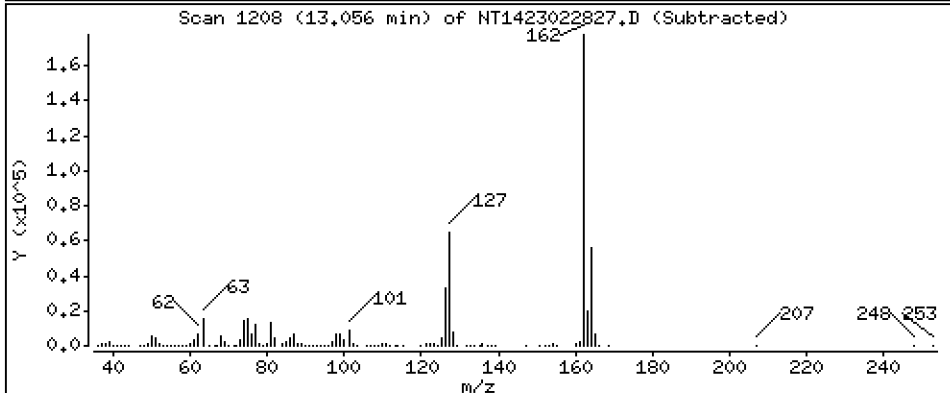
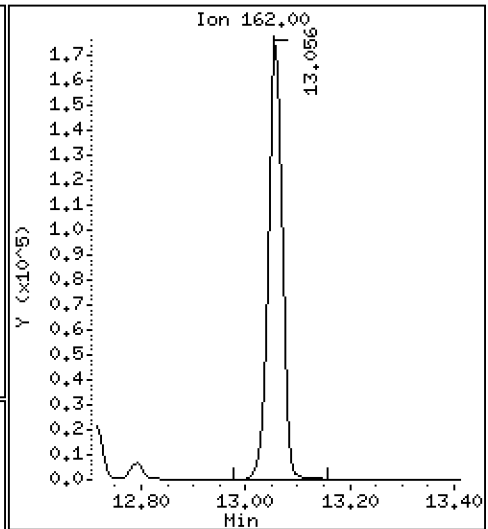
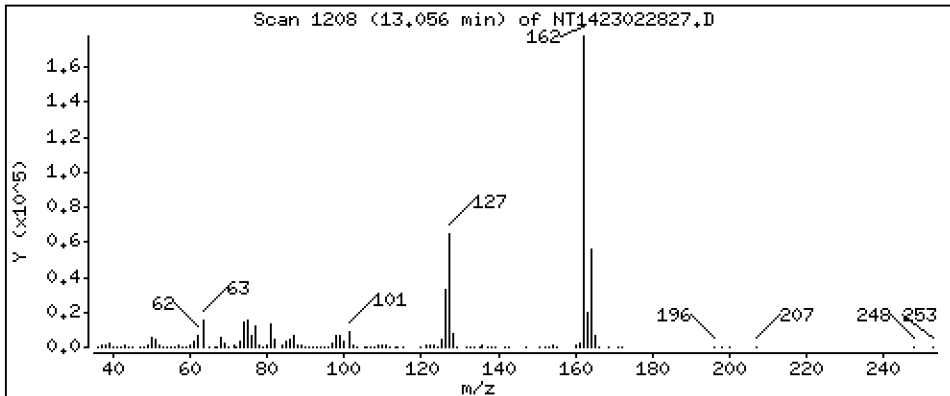
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

37 2-Chloronaphthalene

Concentration: 4,126 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

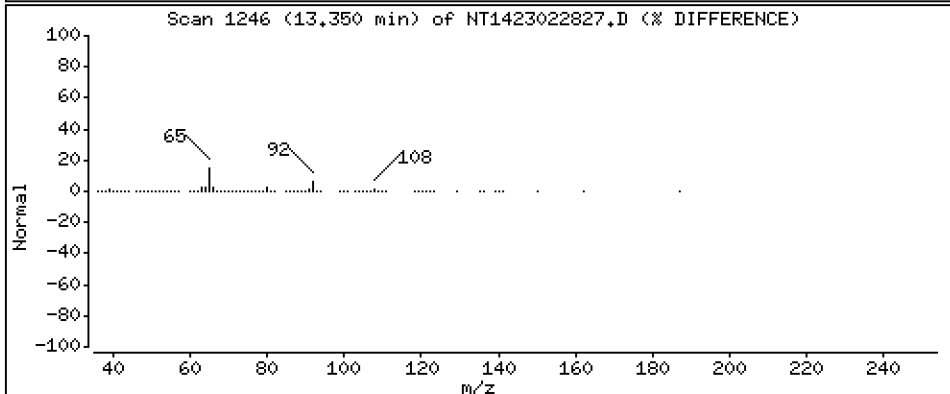
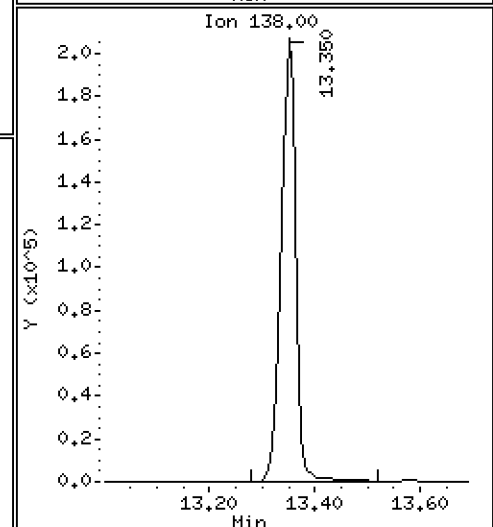
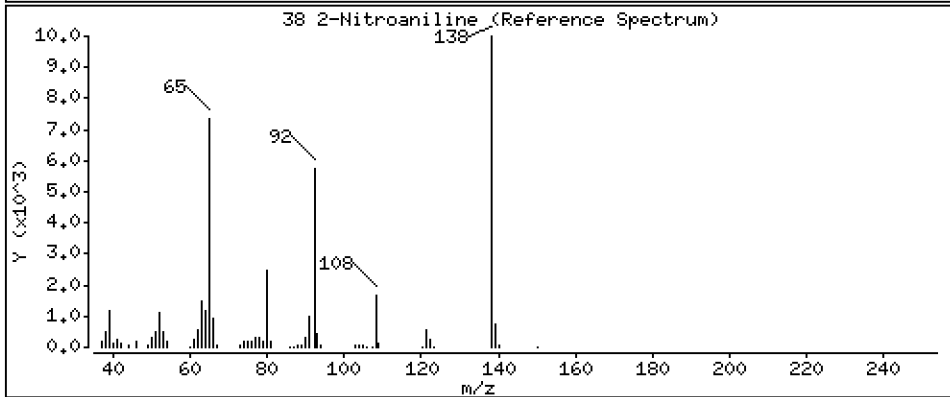
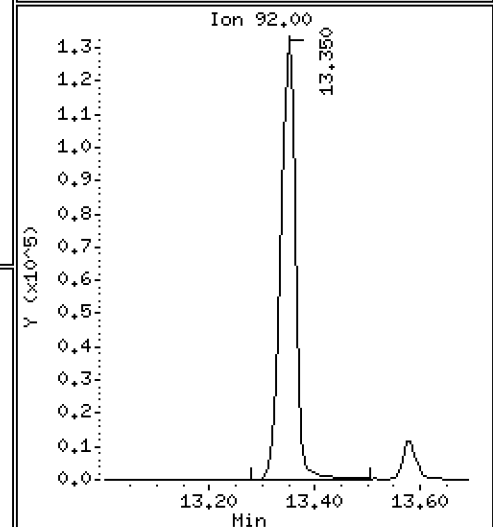
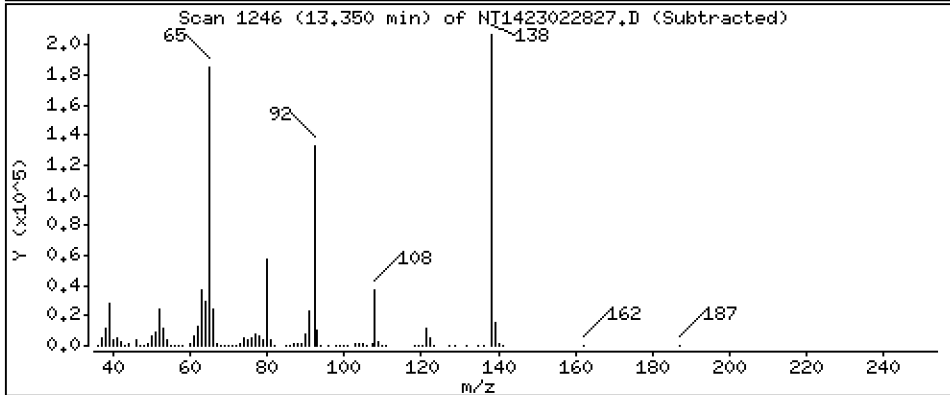
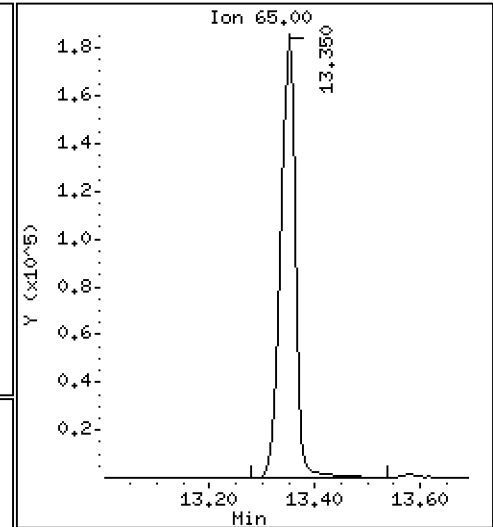
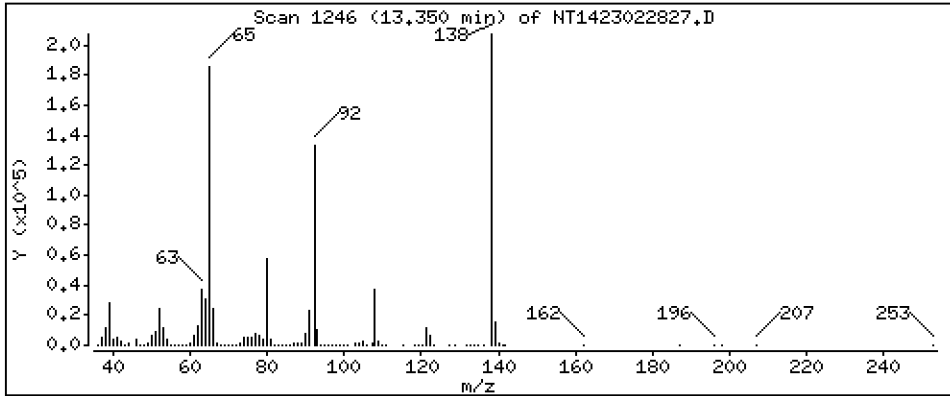
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

38 2-Nitroaniline

Concentration: 17,41 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

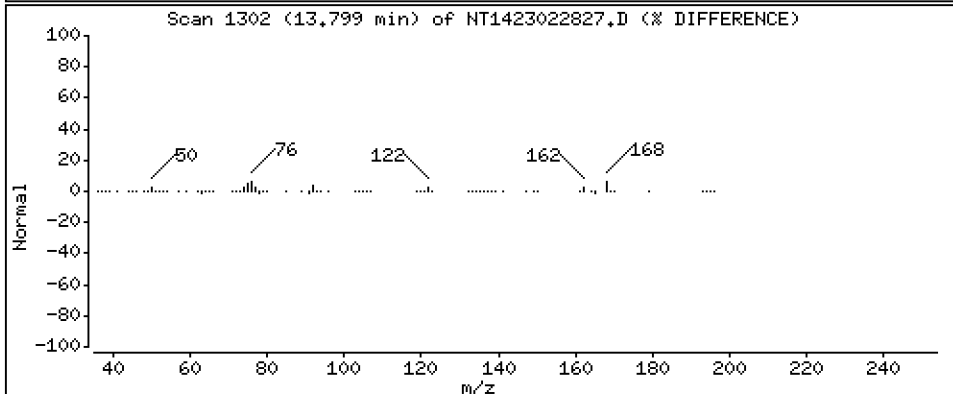
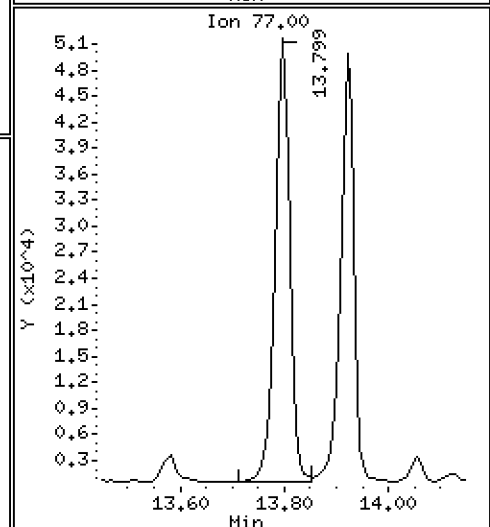
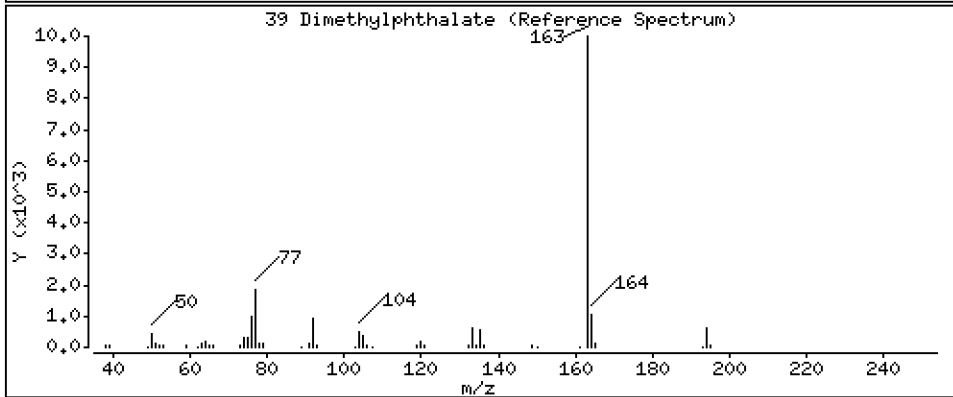
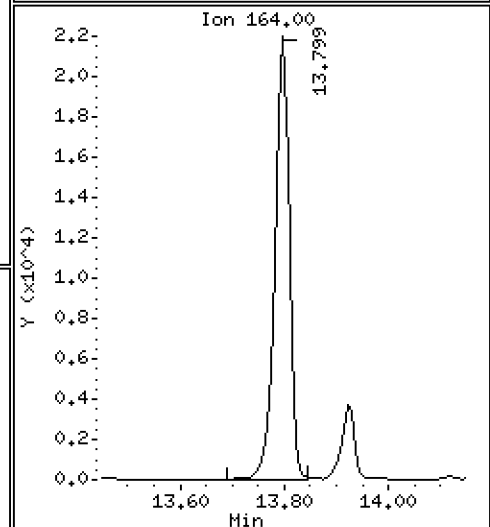
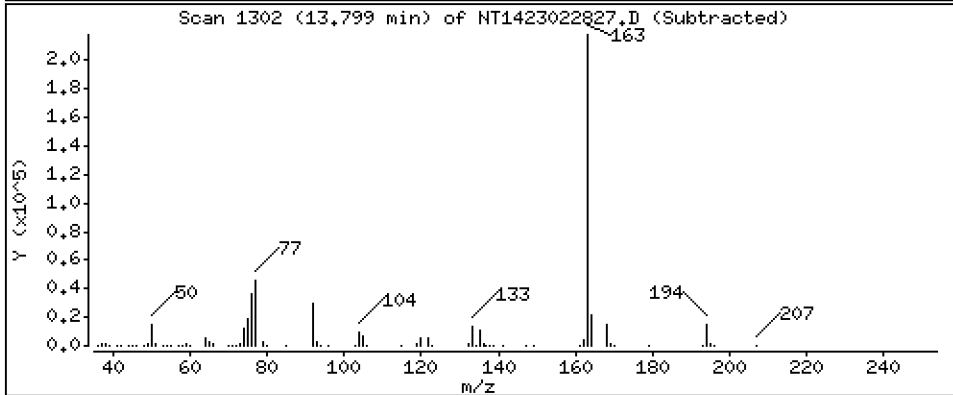
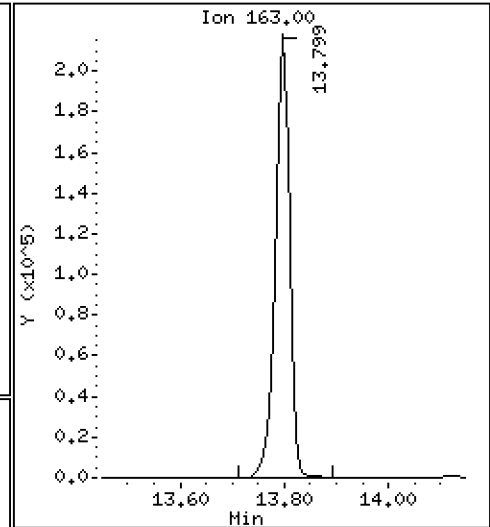
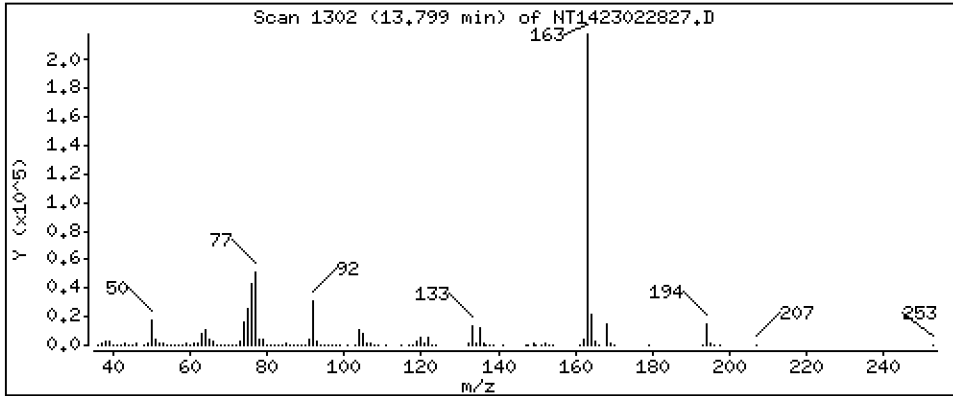
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 5,061 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

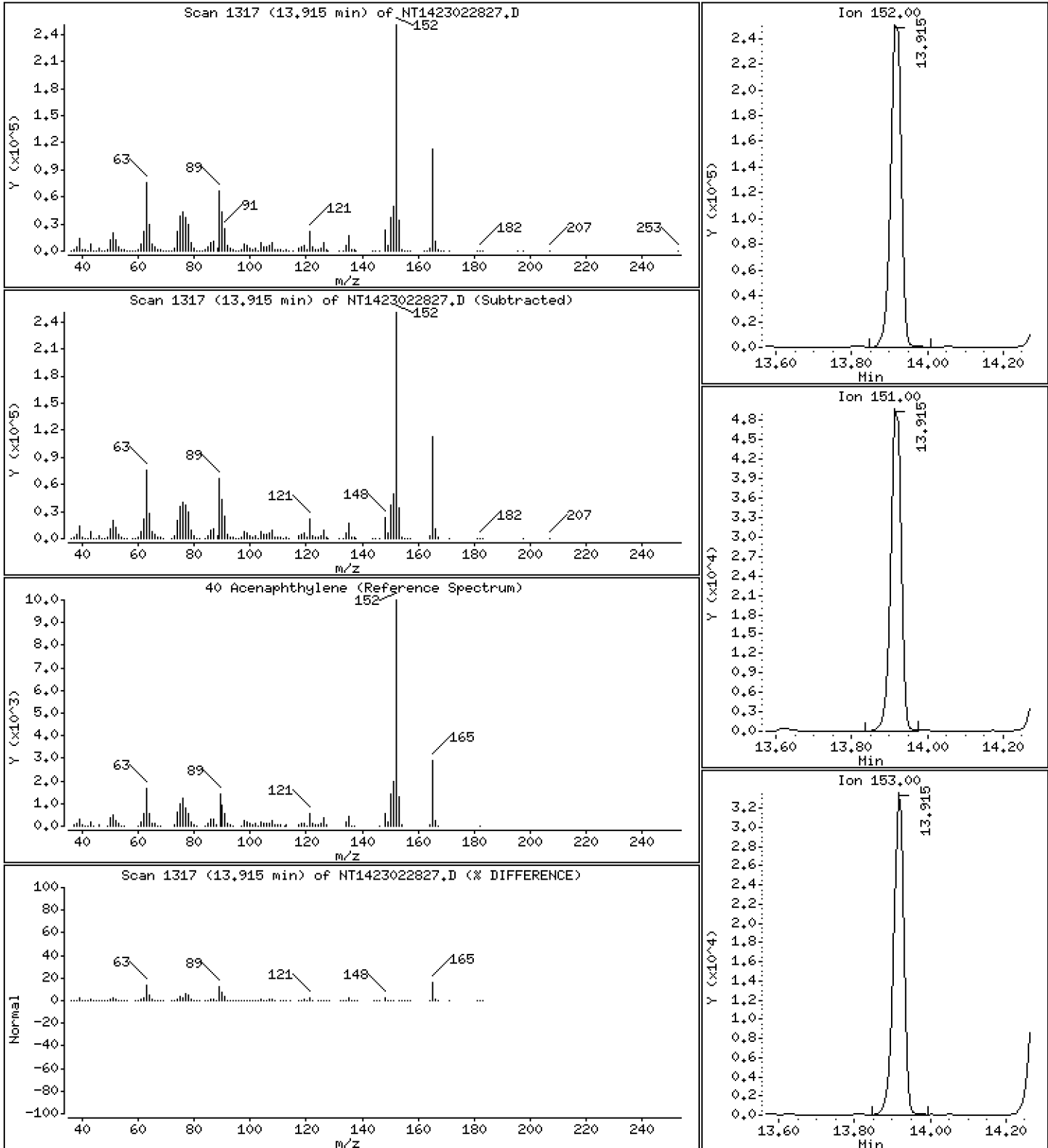
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 4,076 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

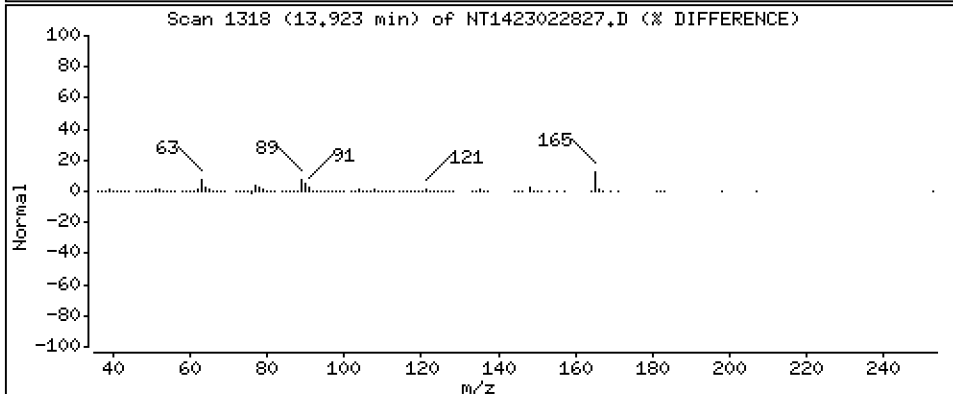
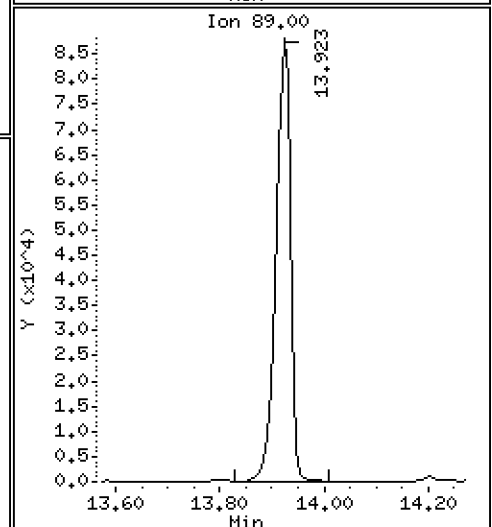
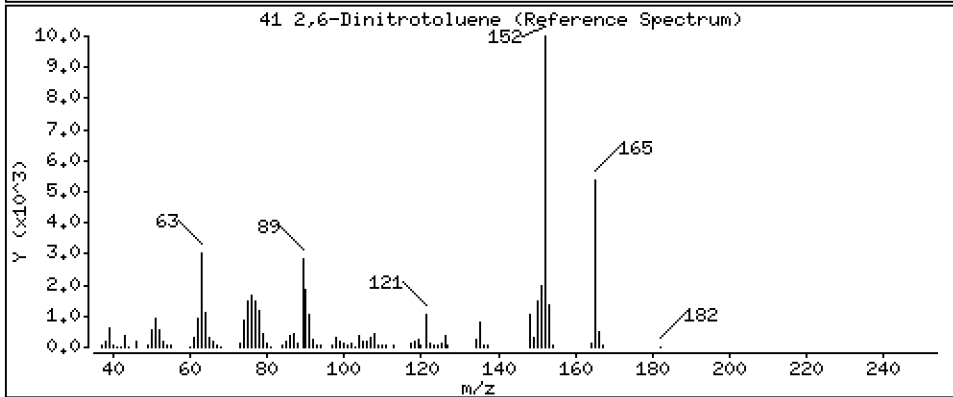
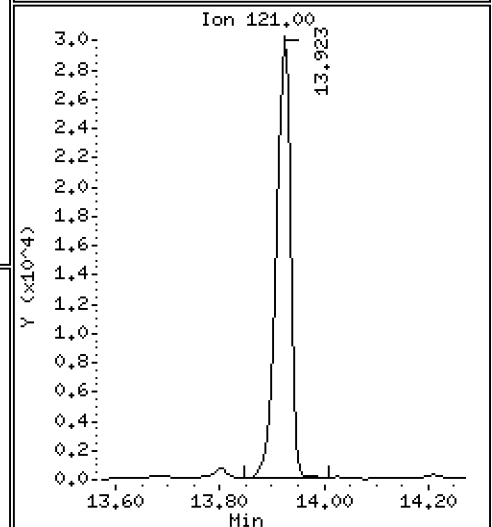
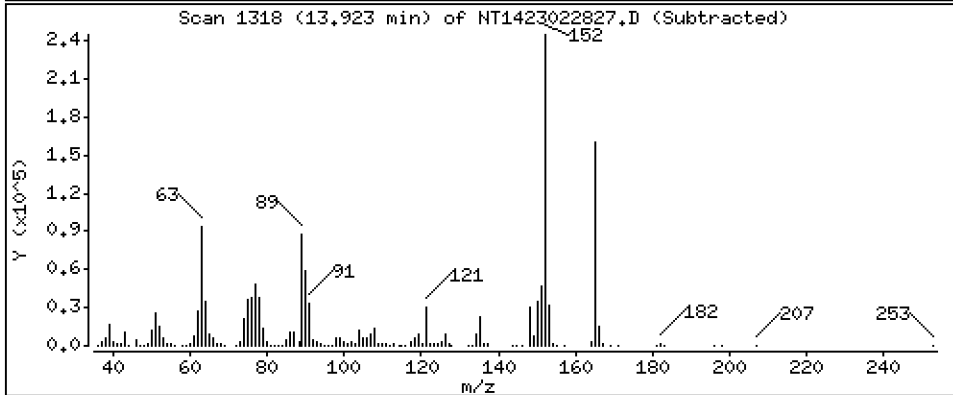
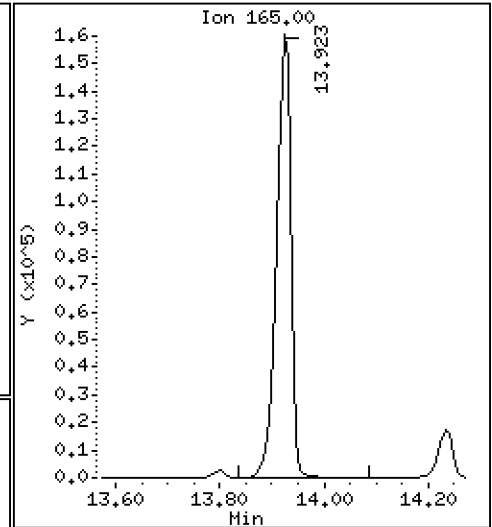
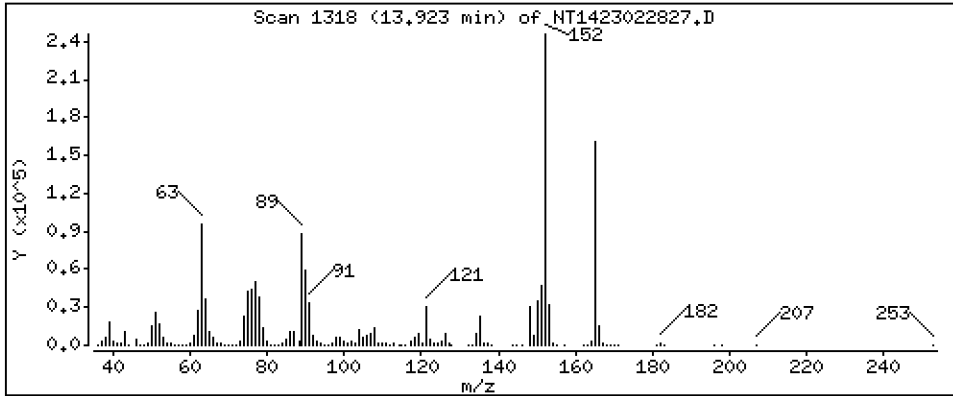
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

41 2,6-Dinitrotoluene

Concentration: 16,20 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

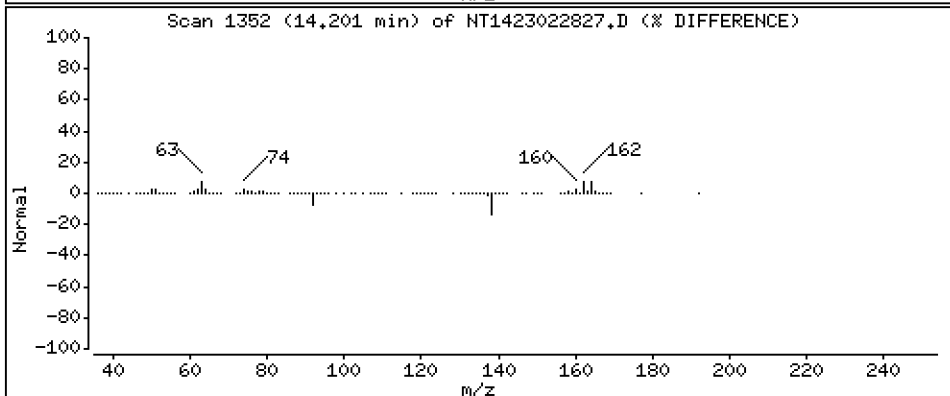
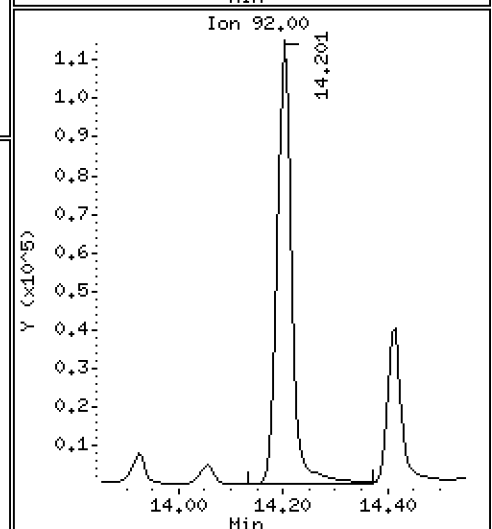
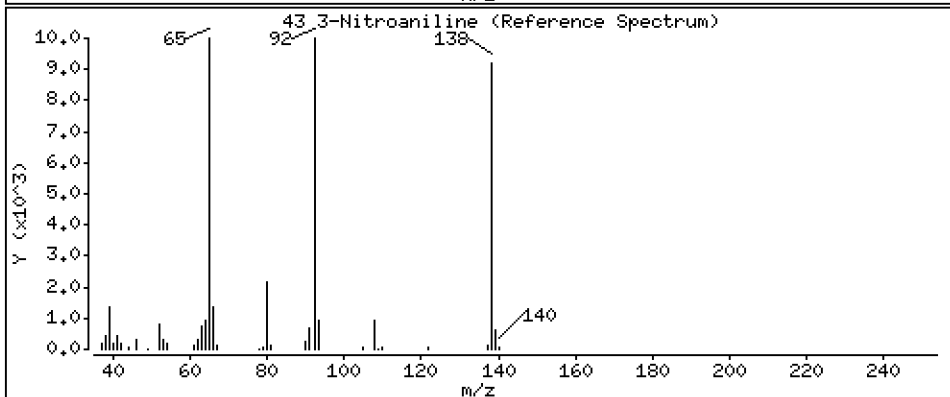
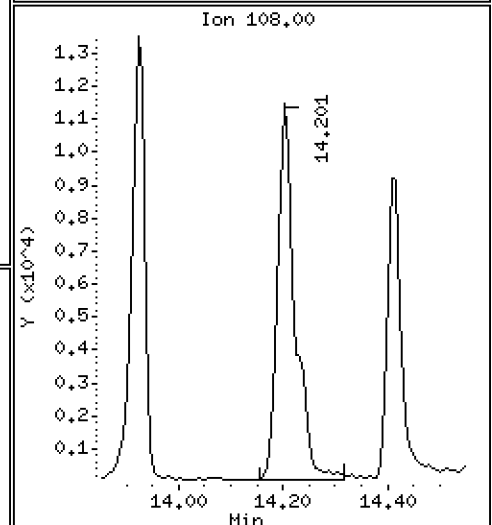
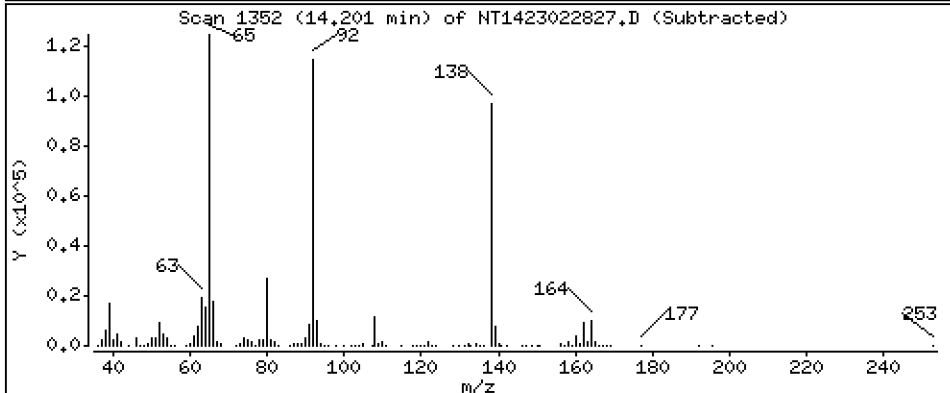
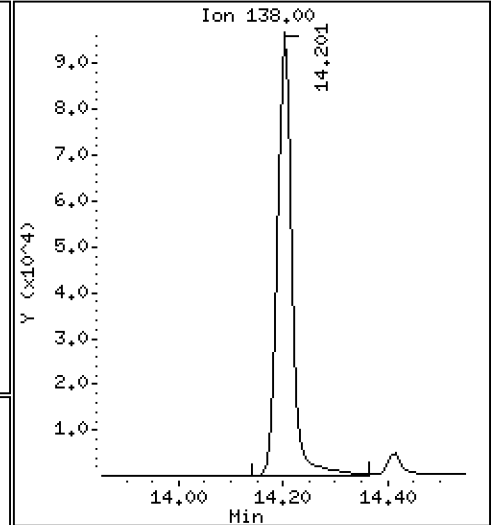
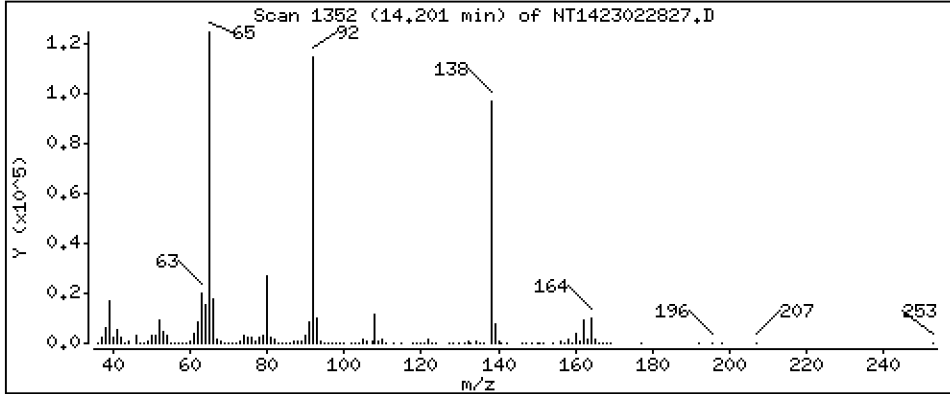
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

43 3-Nitroaniline

Concentration: 9,600 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

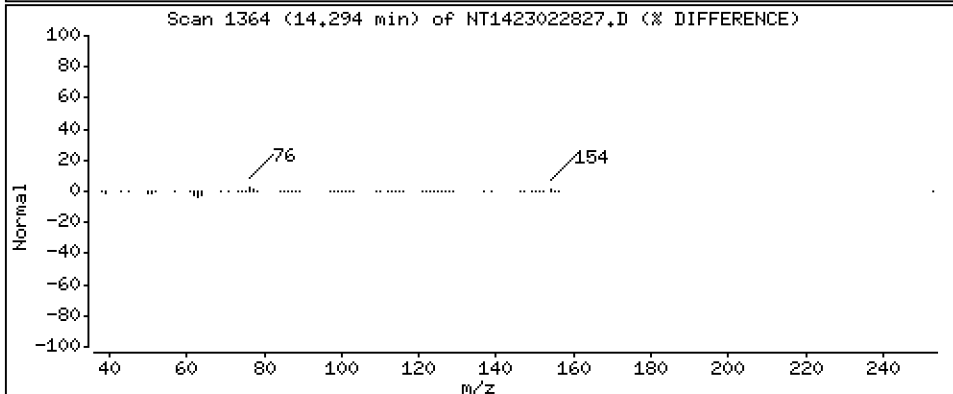
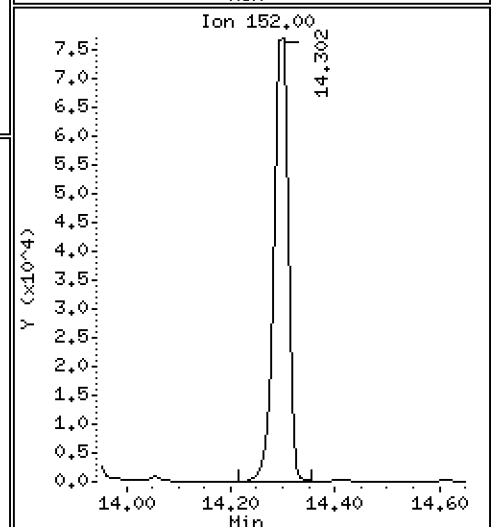
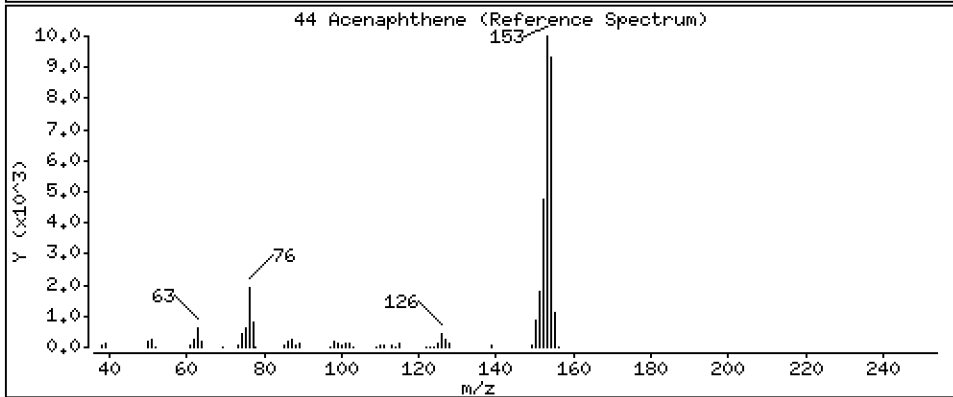
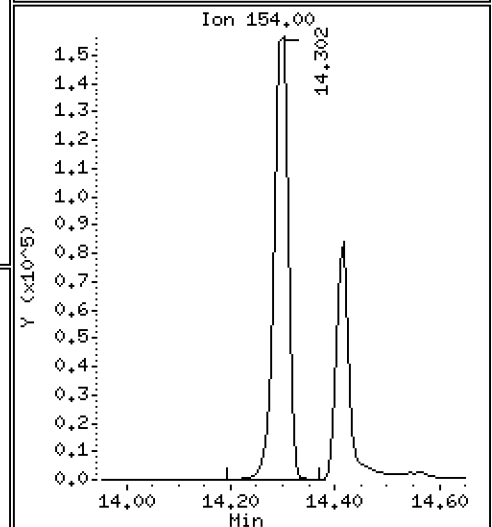
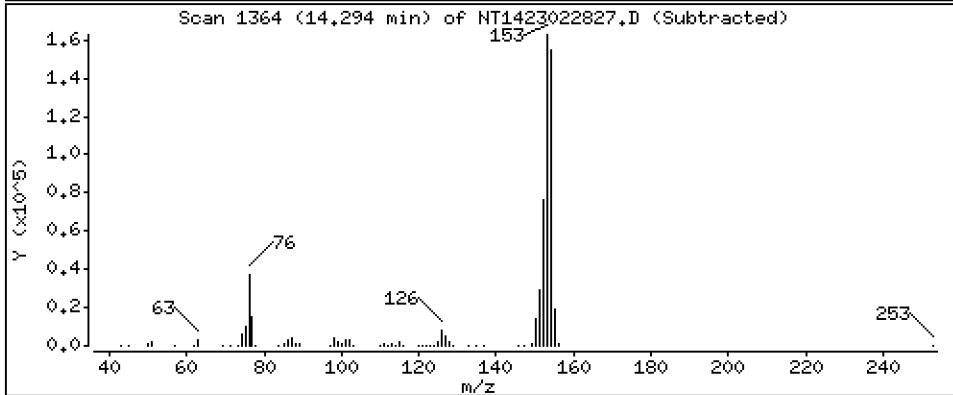
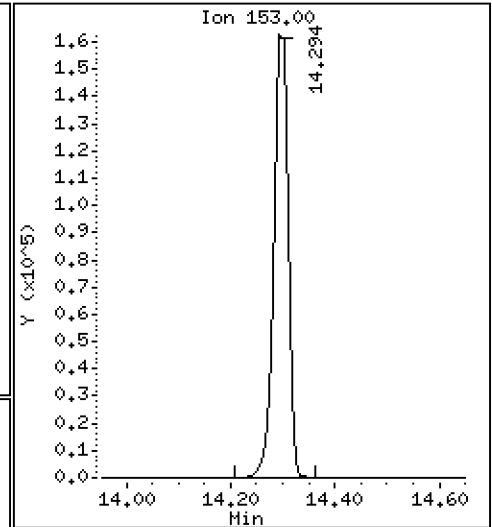
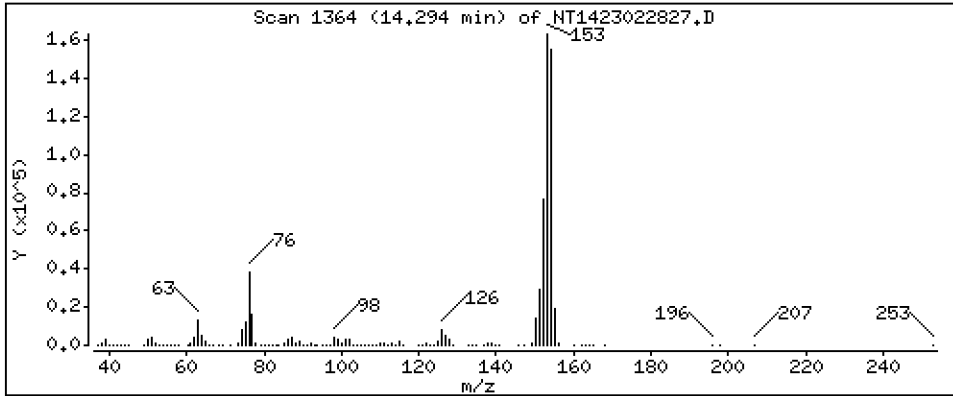
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 4,088 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

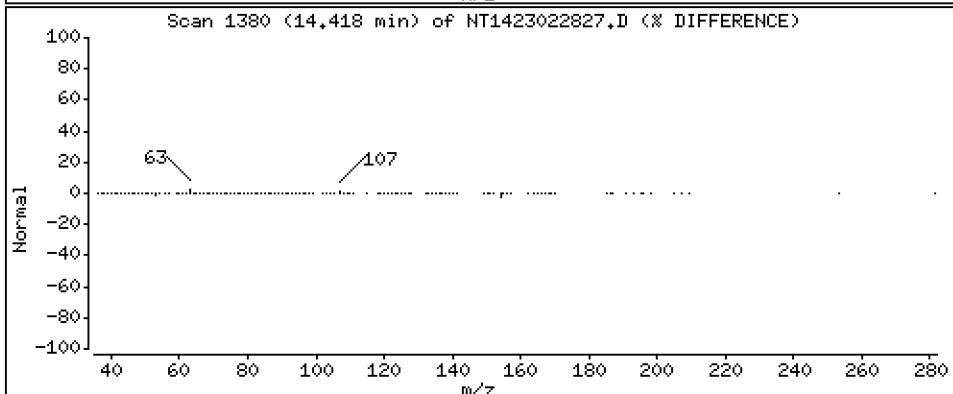
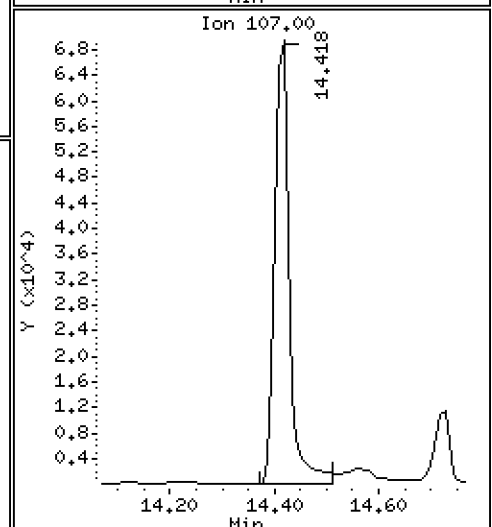
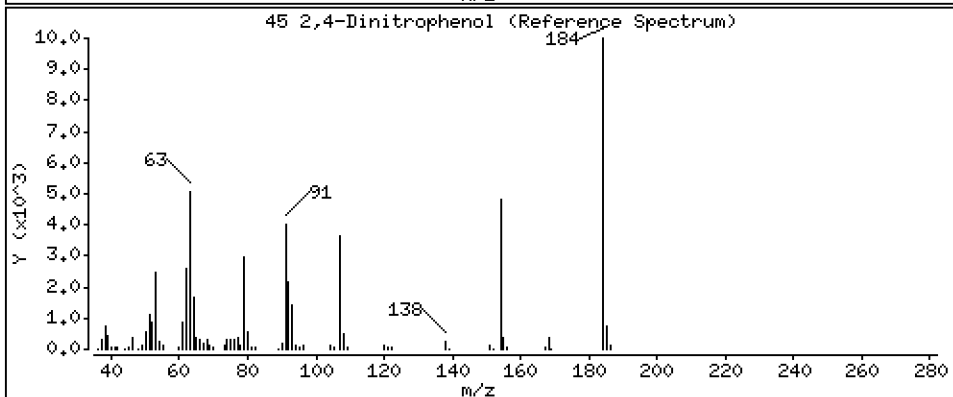
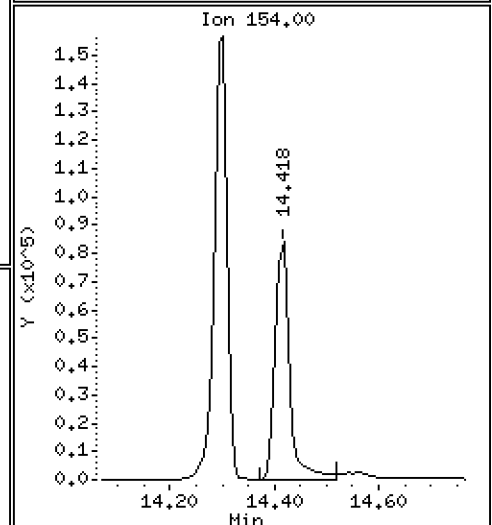
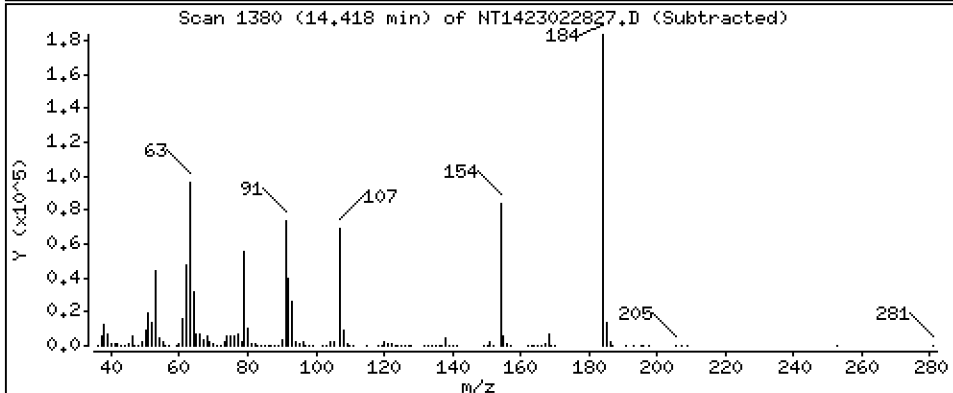
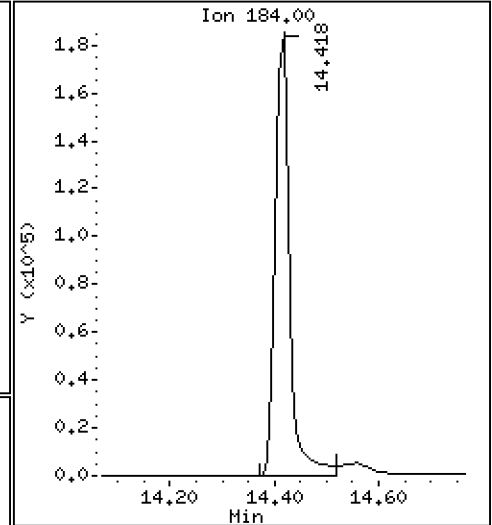
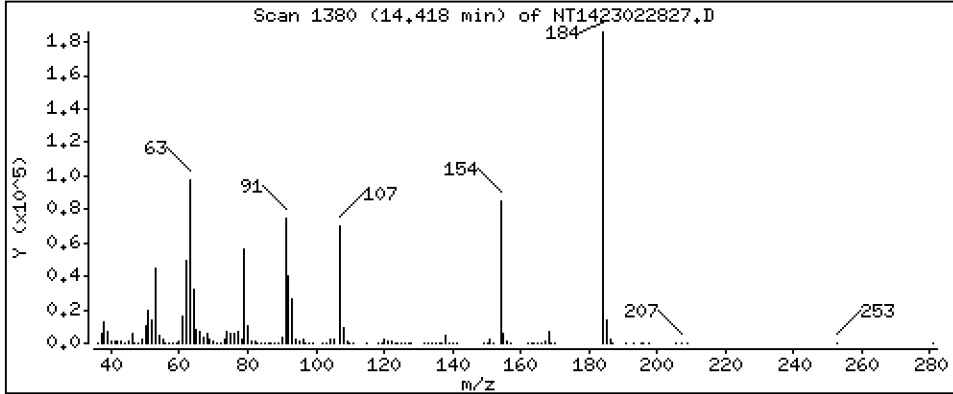
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

45 2,4-Dinitrophenol

Concentration: 27.58 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

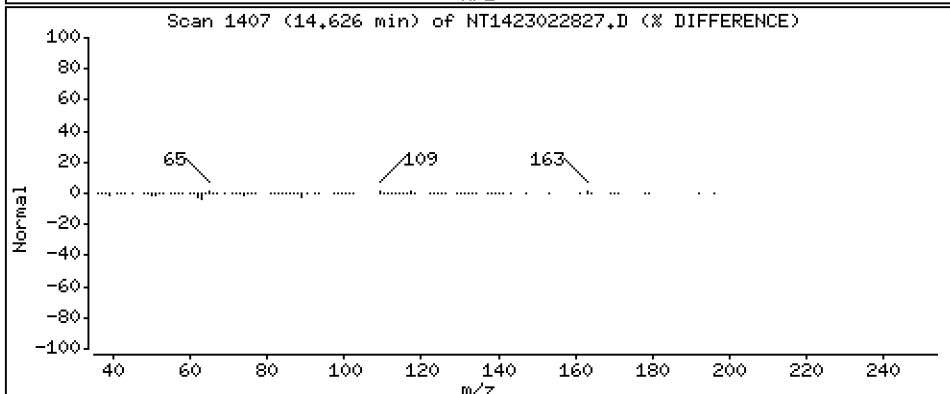
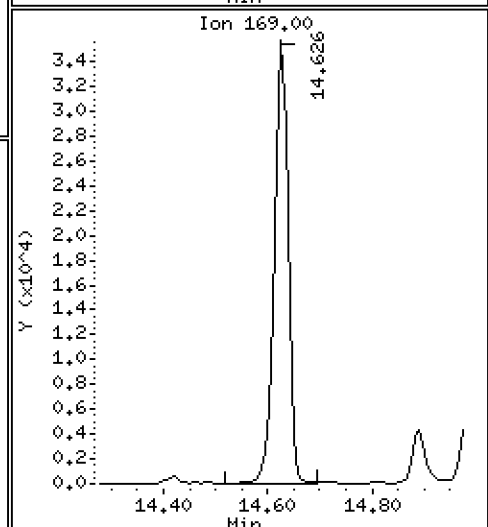
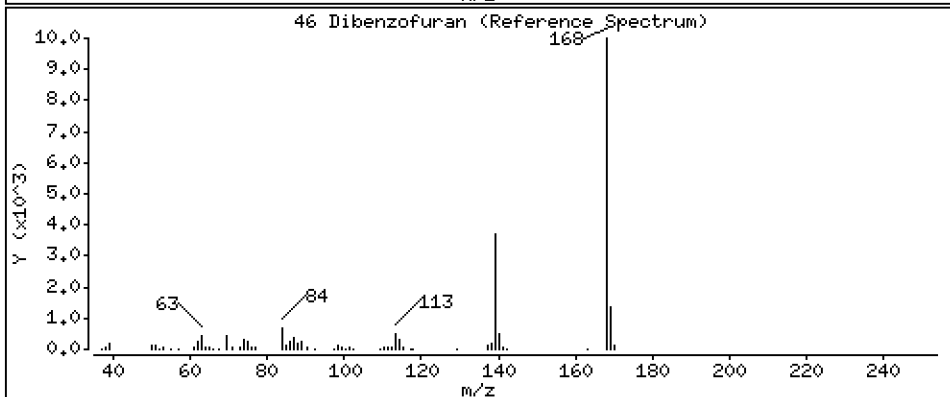
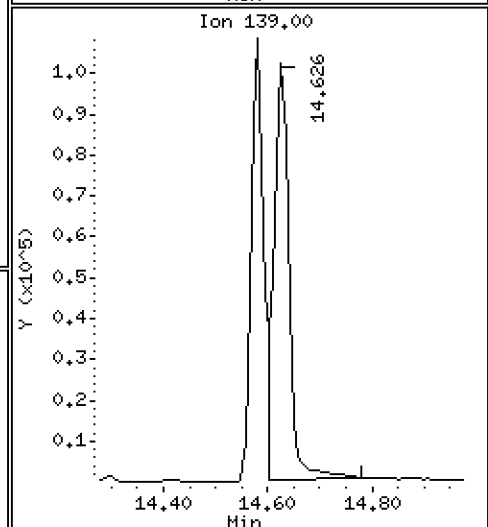
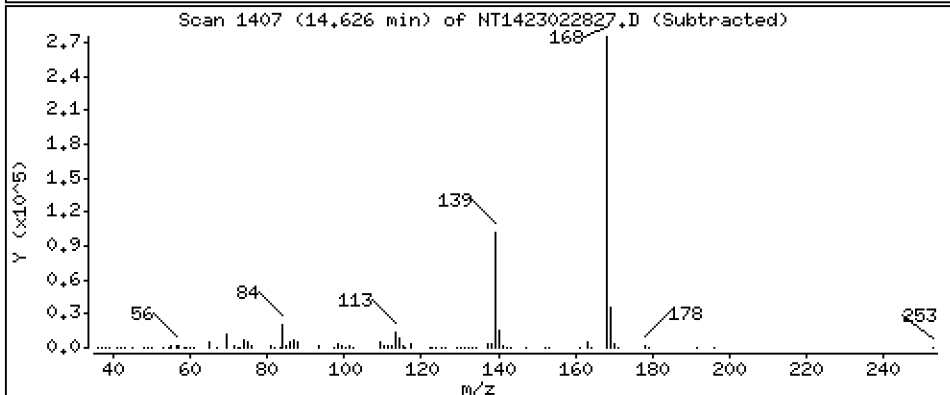
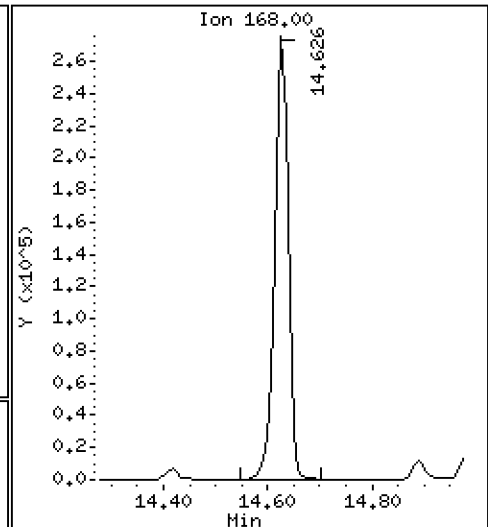
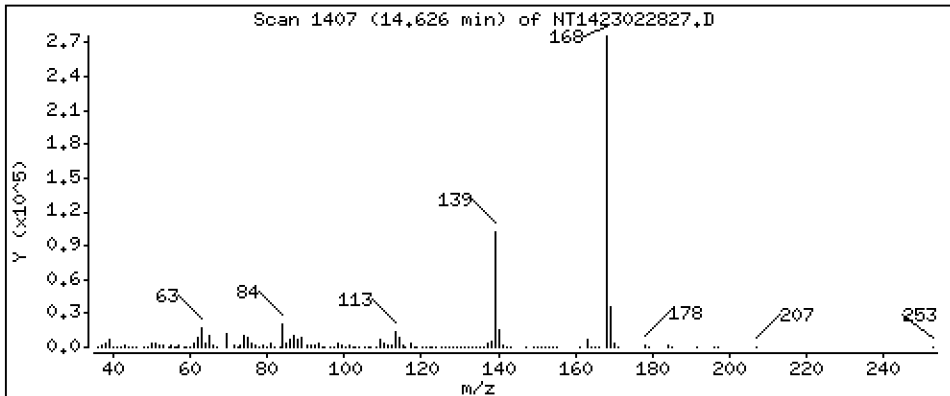
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 4,074 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

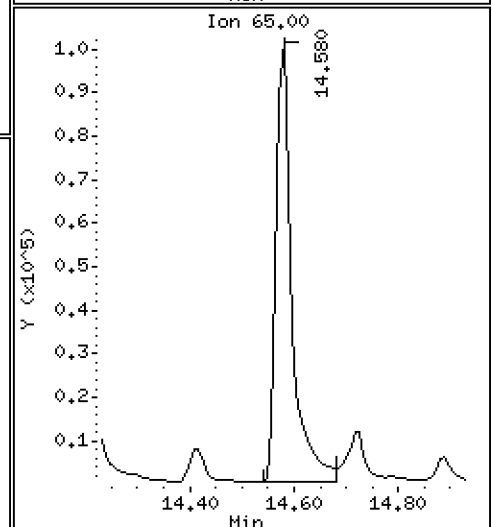
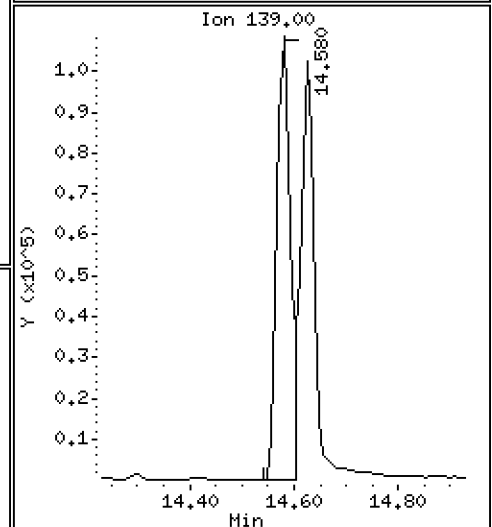
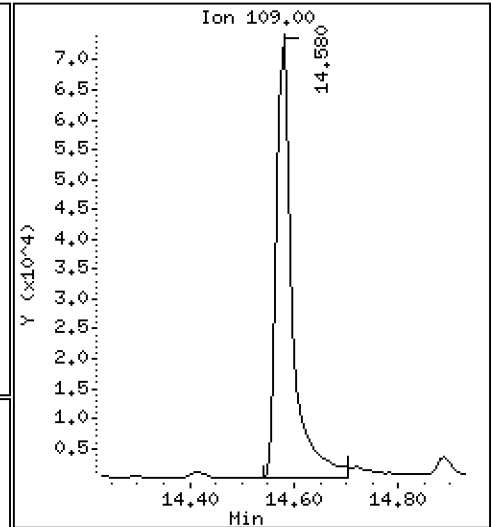
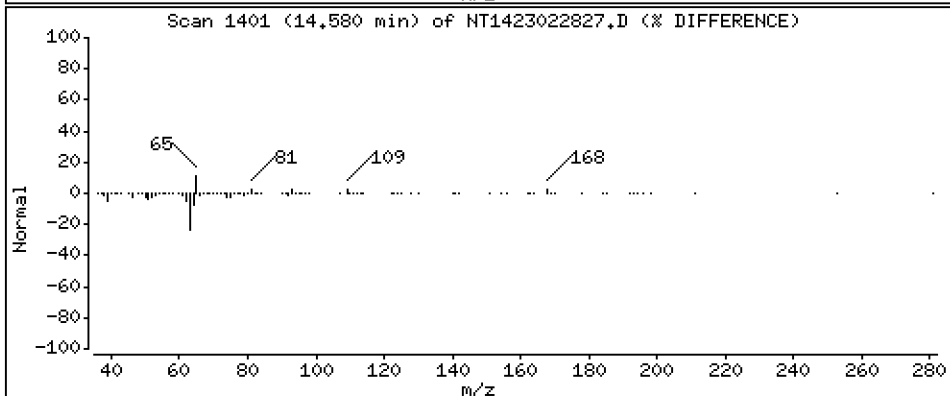
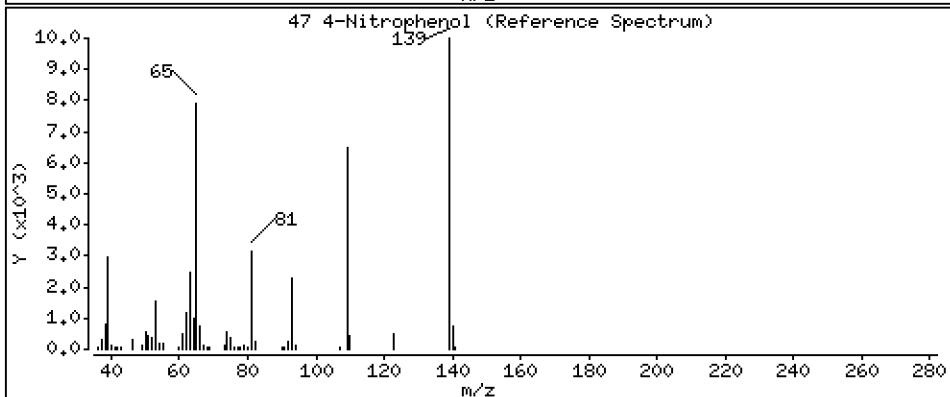
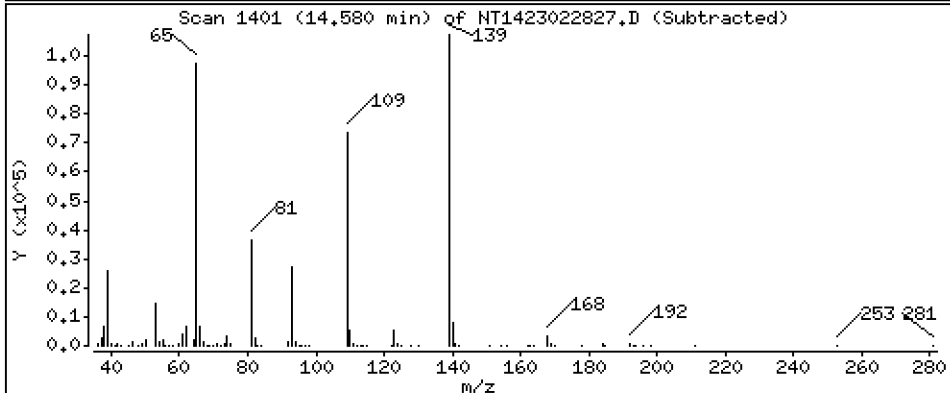
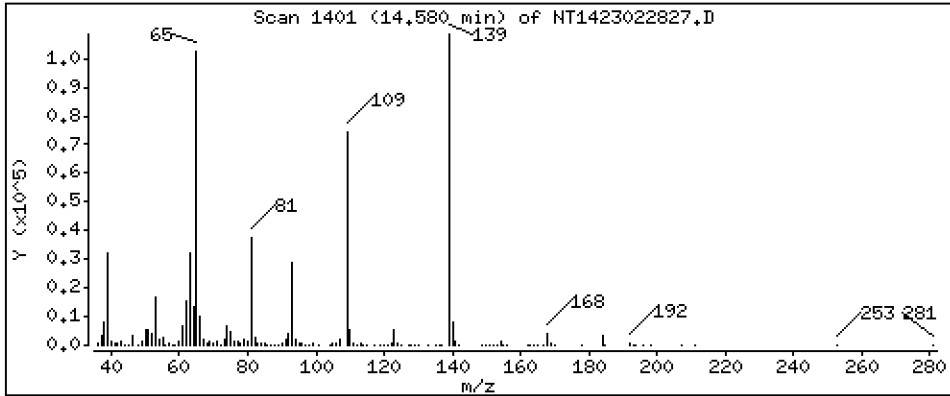
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

47 4-Nitrophenol

Concentration: 15,52 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

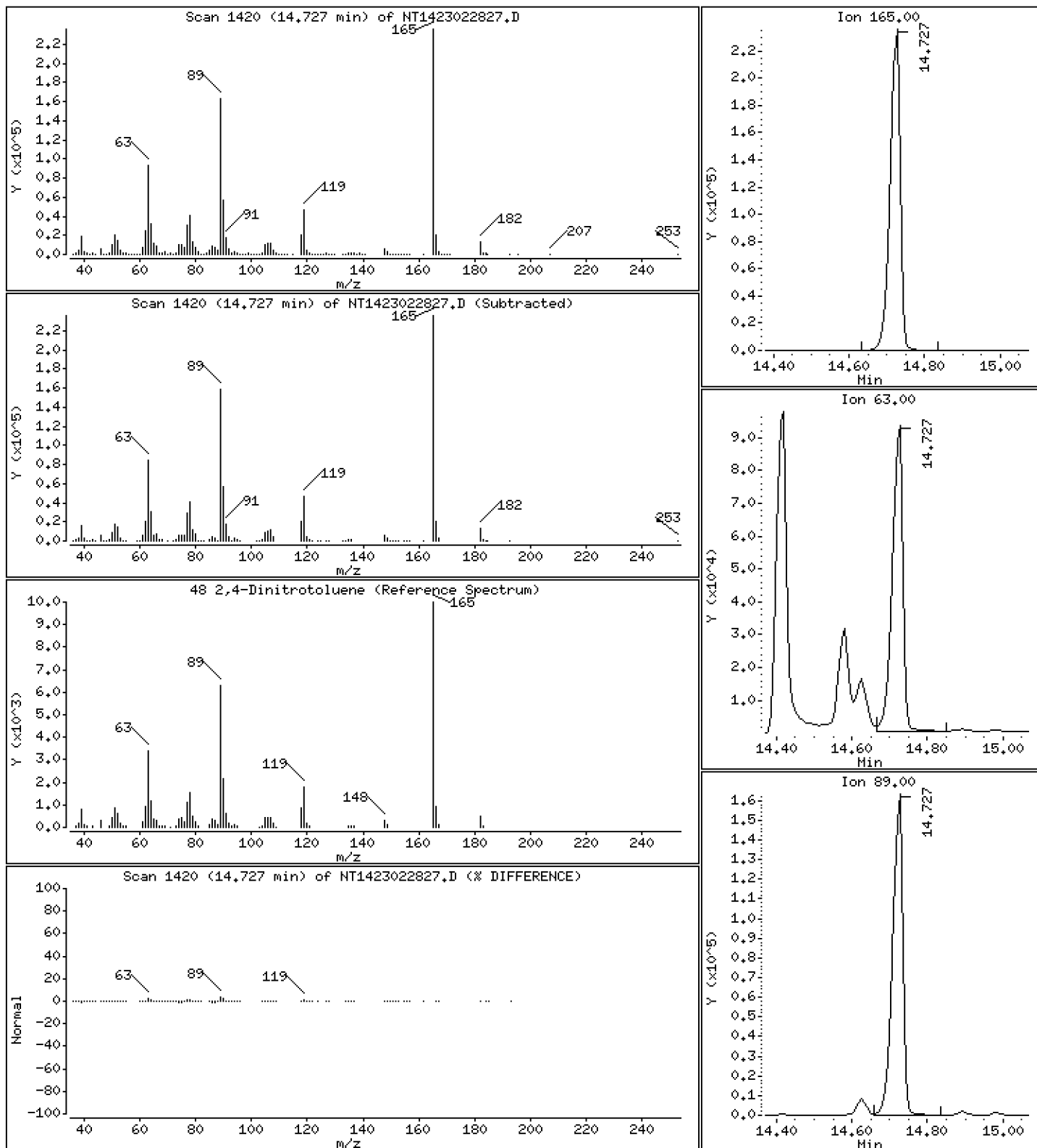
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

48 2,4-Dinitrotoluene

Concentration: 15,78 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

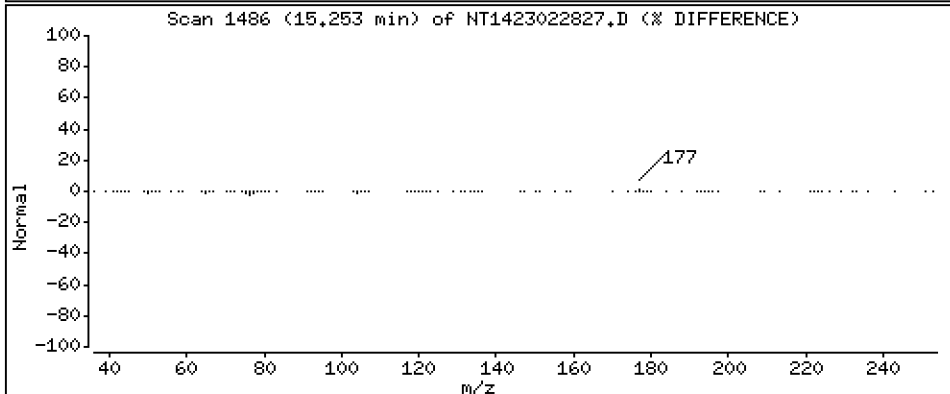
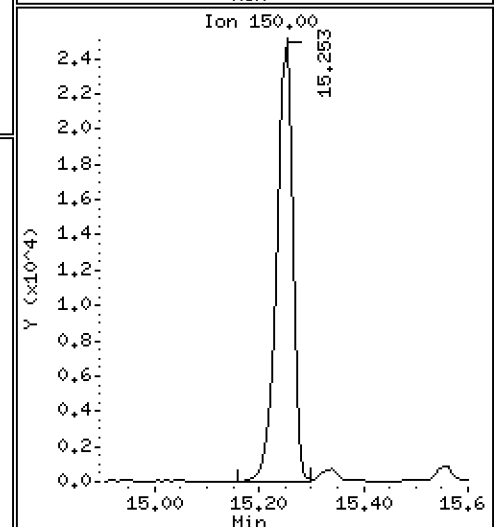
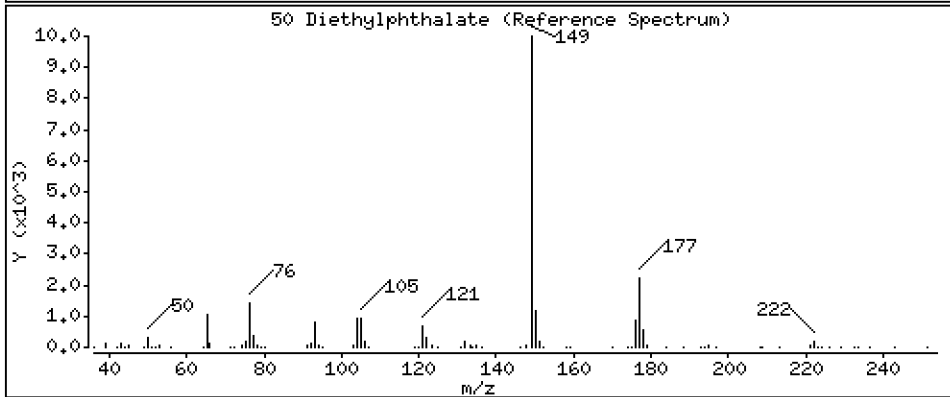
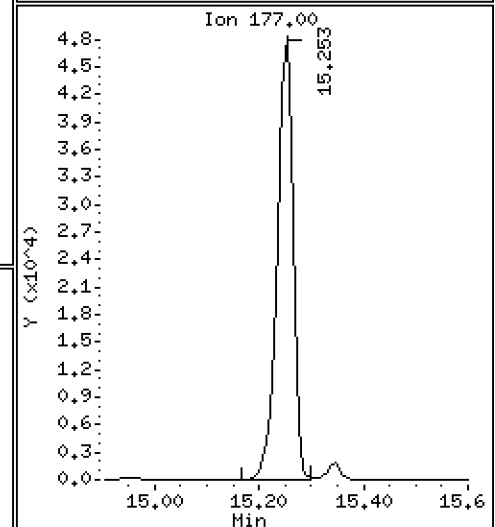
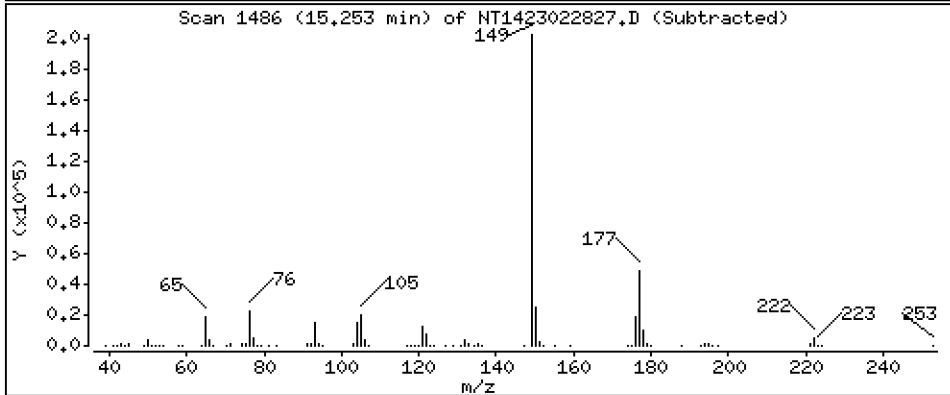
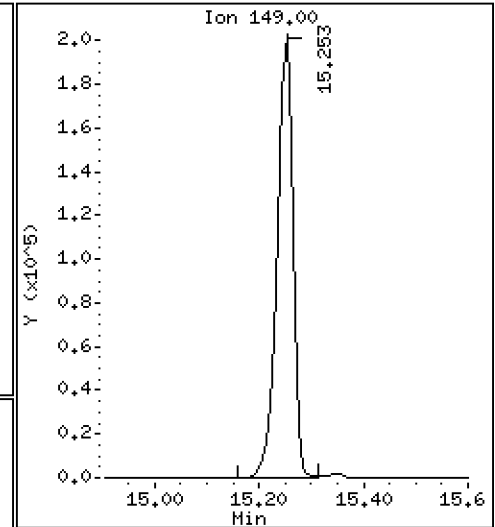
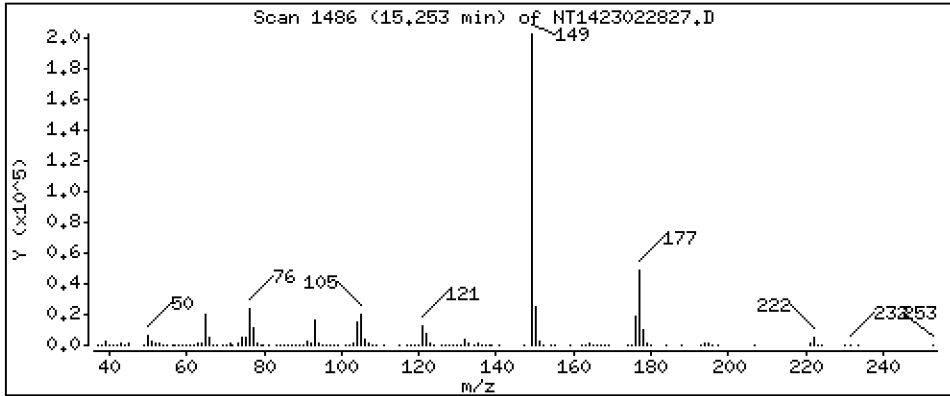
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 5,633 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

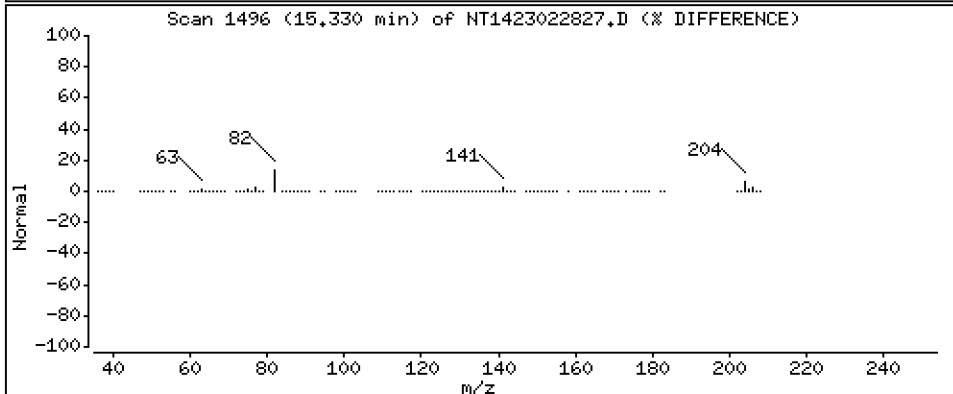
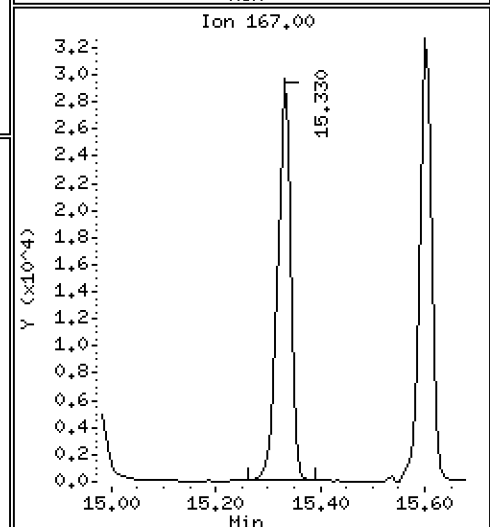
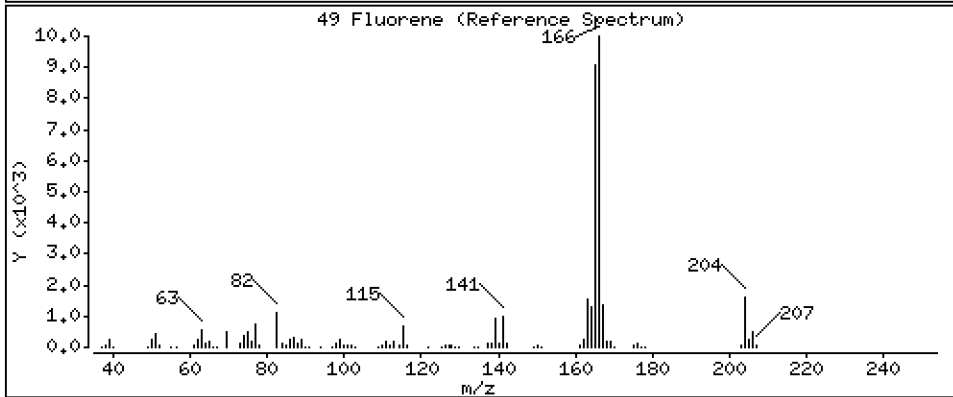
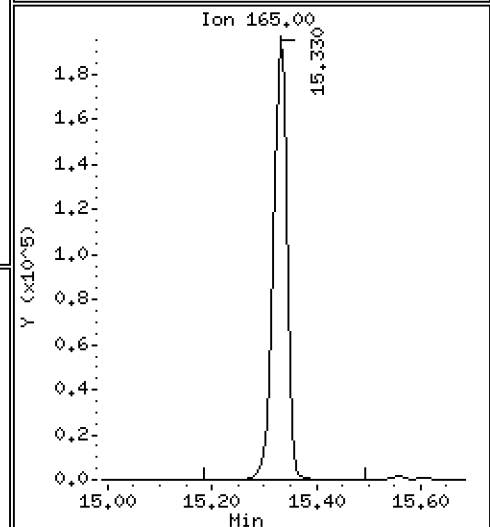
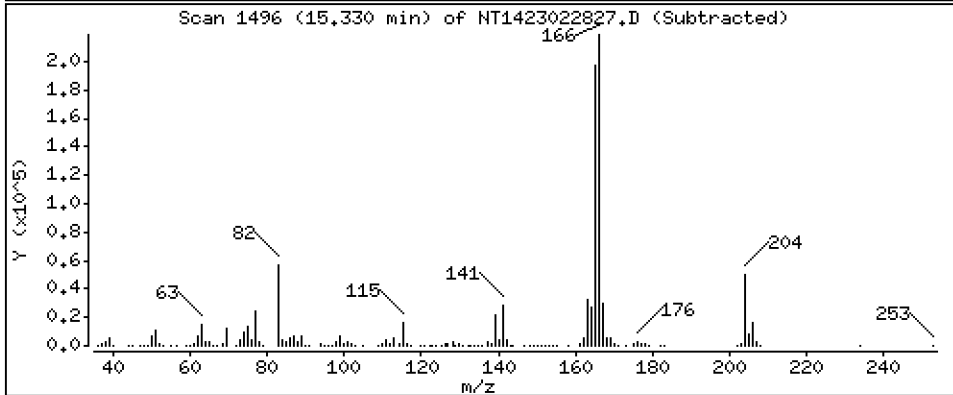
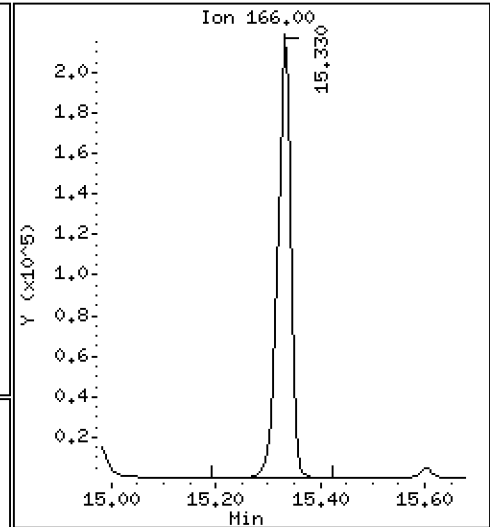
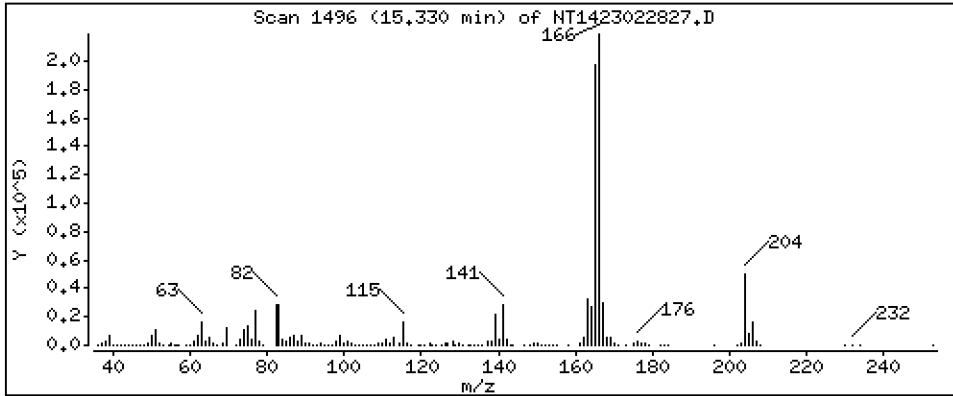
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 4,146 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

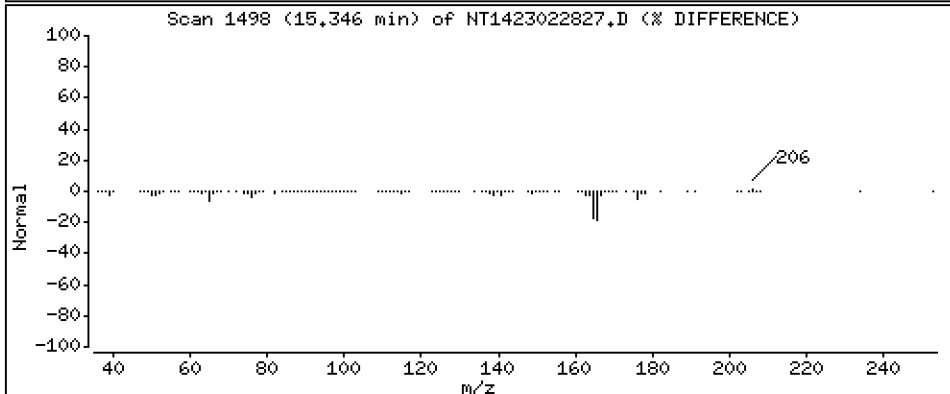
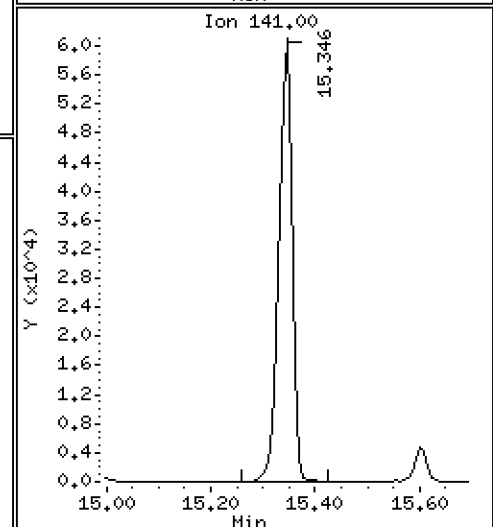
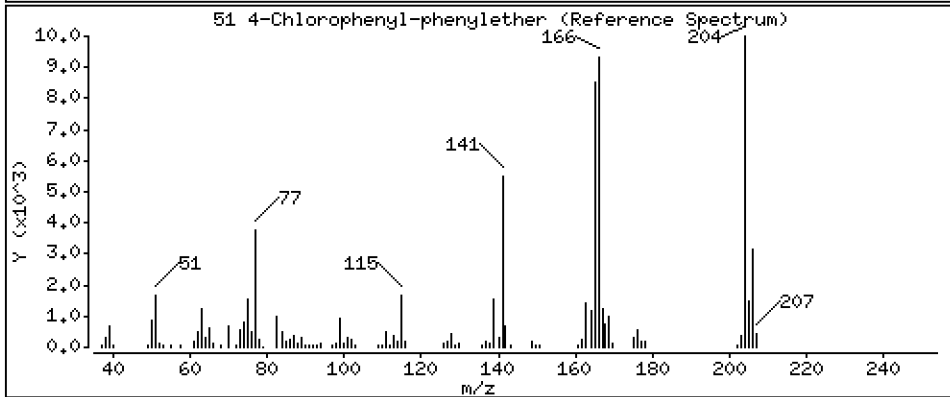
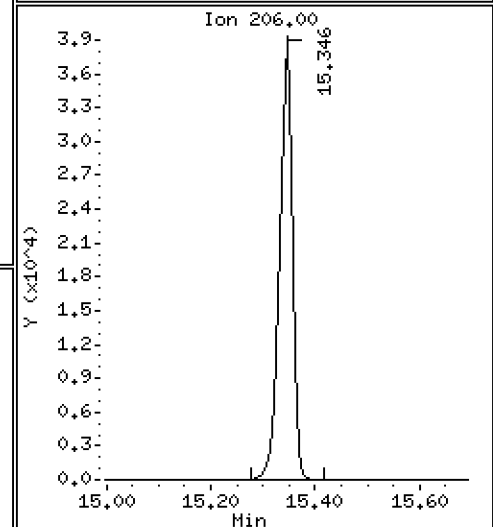
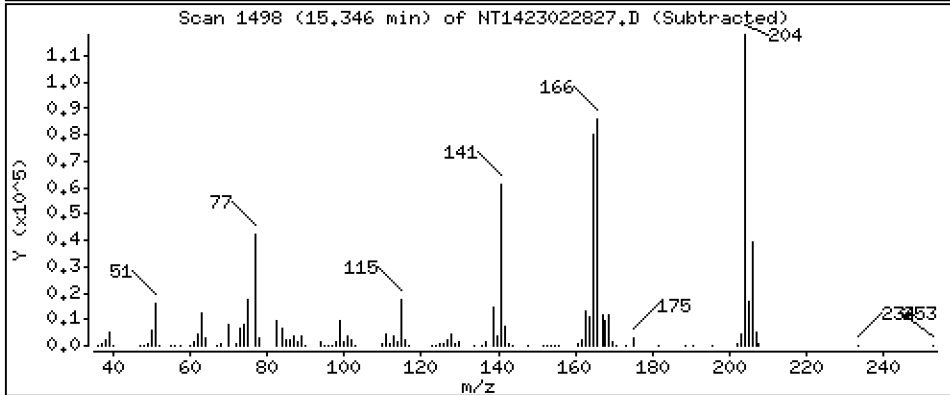
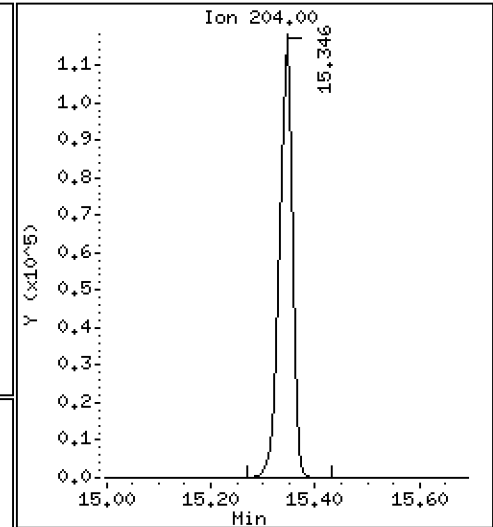
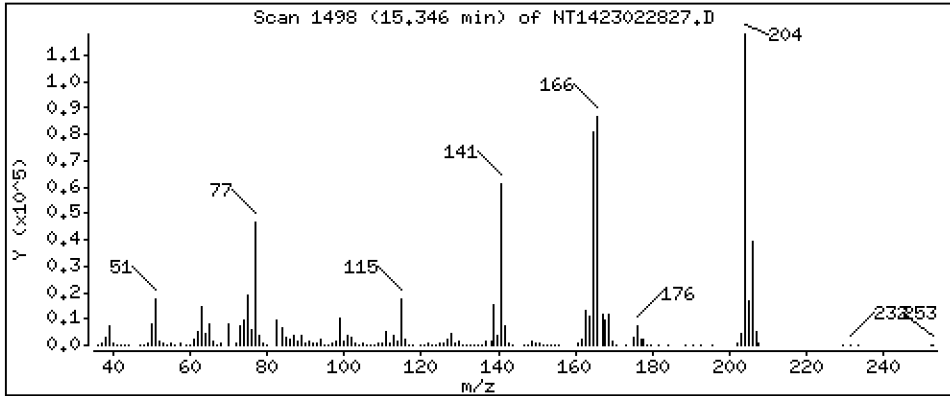
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 4,222 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

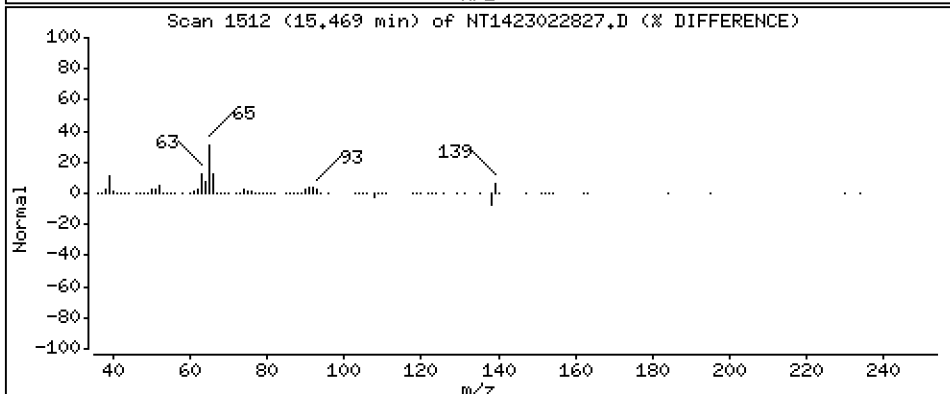
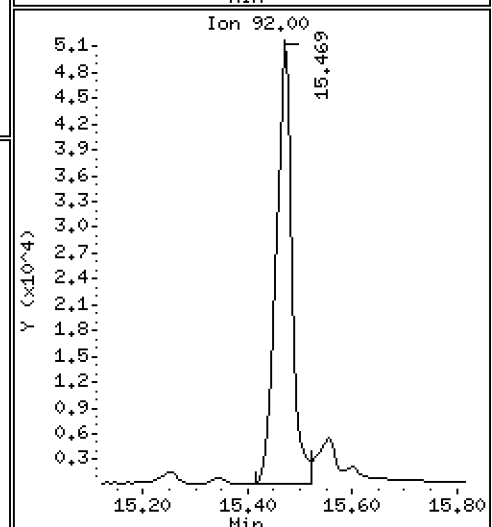
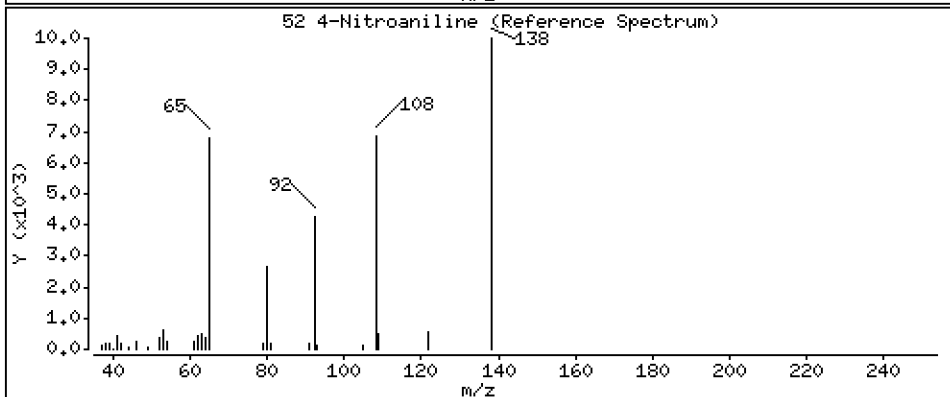
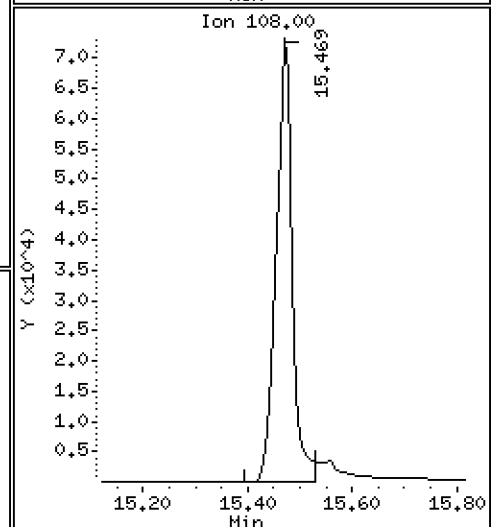
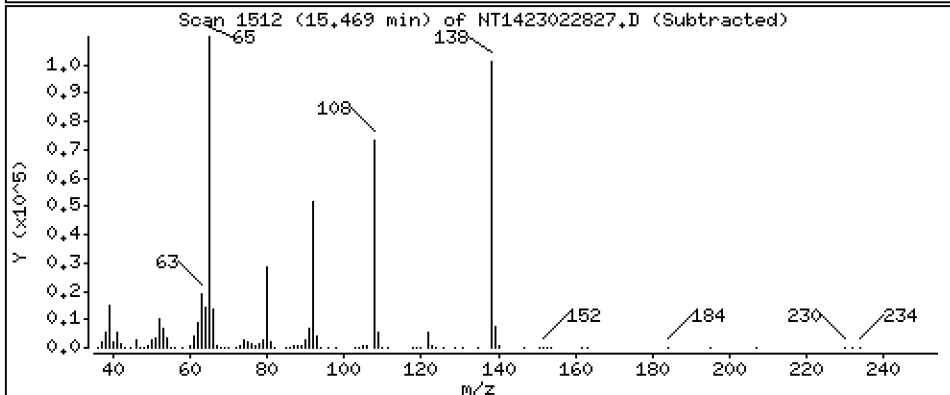
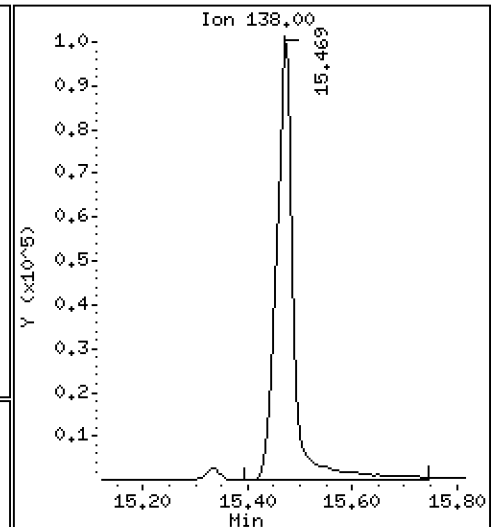
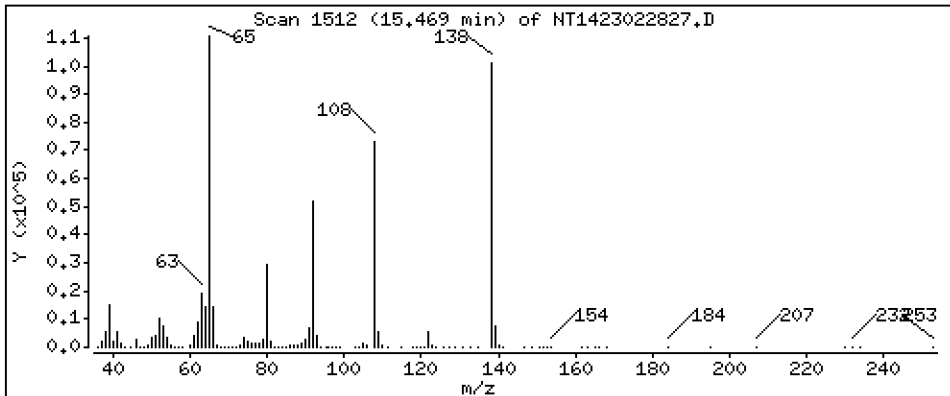
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

52 4-Nitroaniline

Concentration: 12,78 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

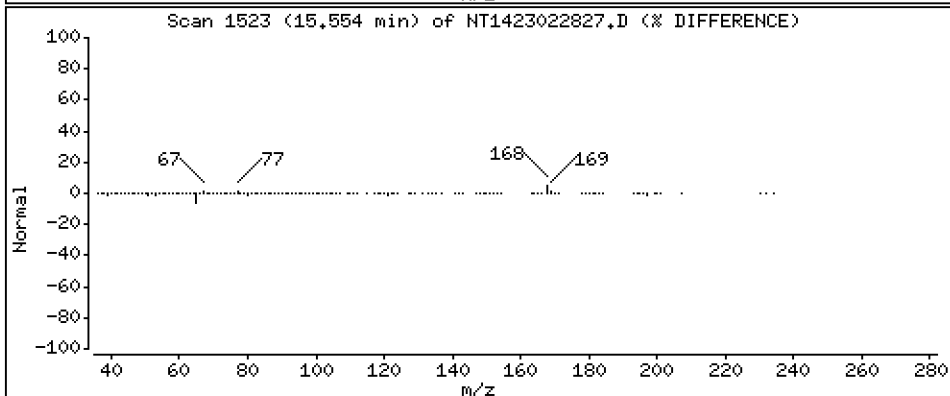
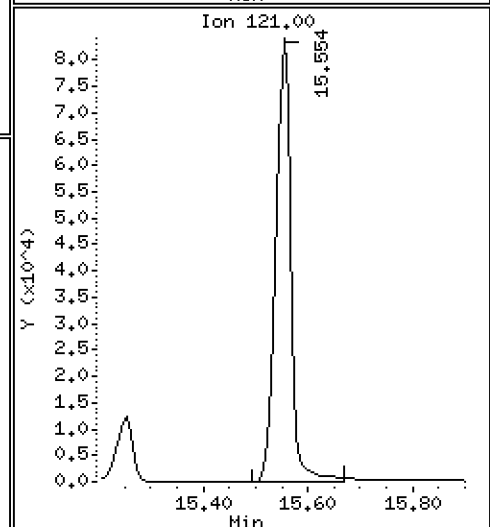
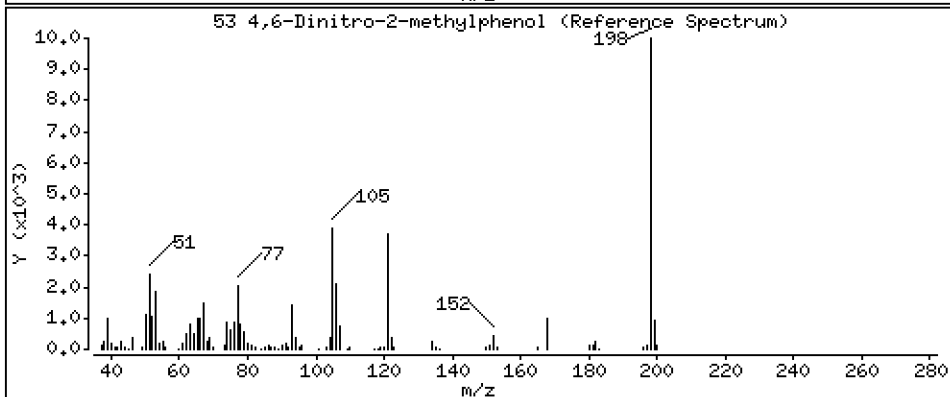
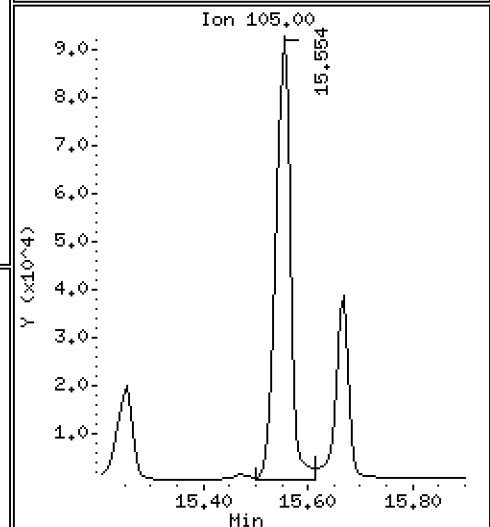
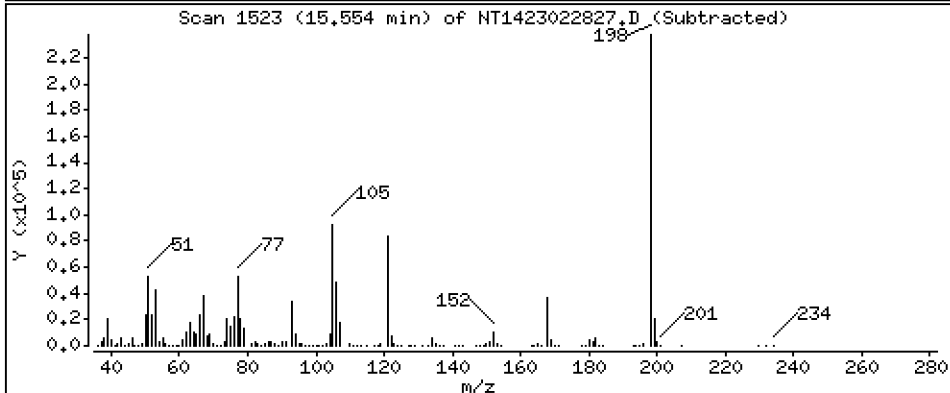
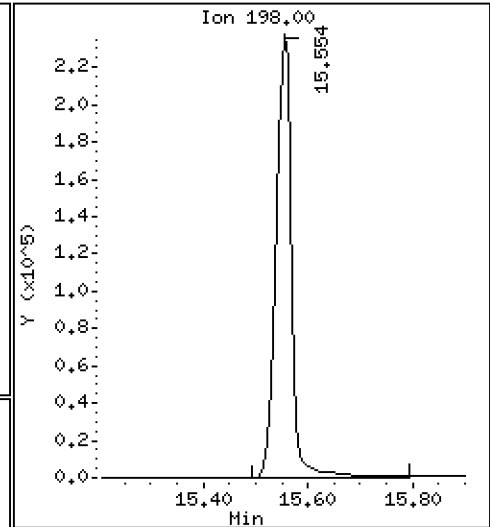
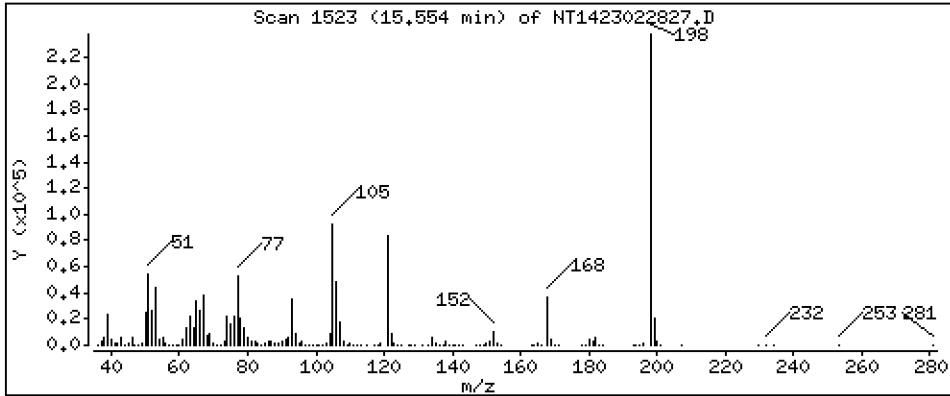
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

53 4,6-Dinitro-2-methylphenol

Concentration: 30,46 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

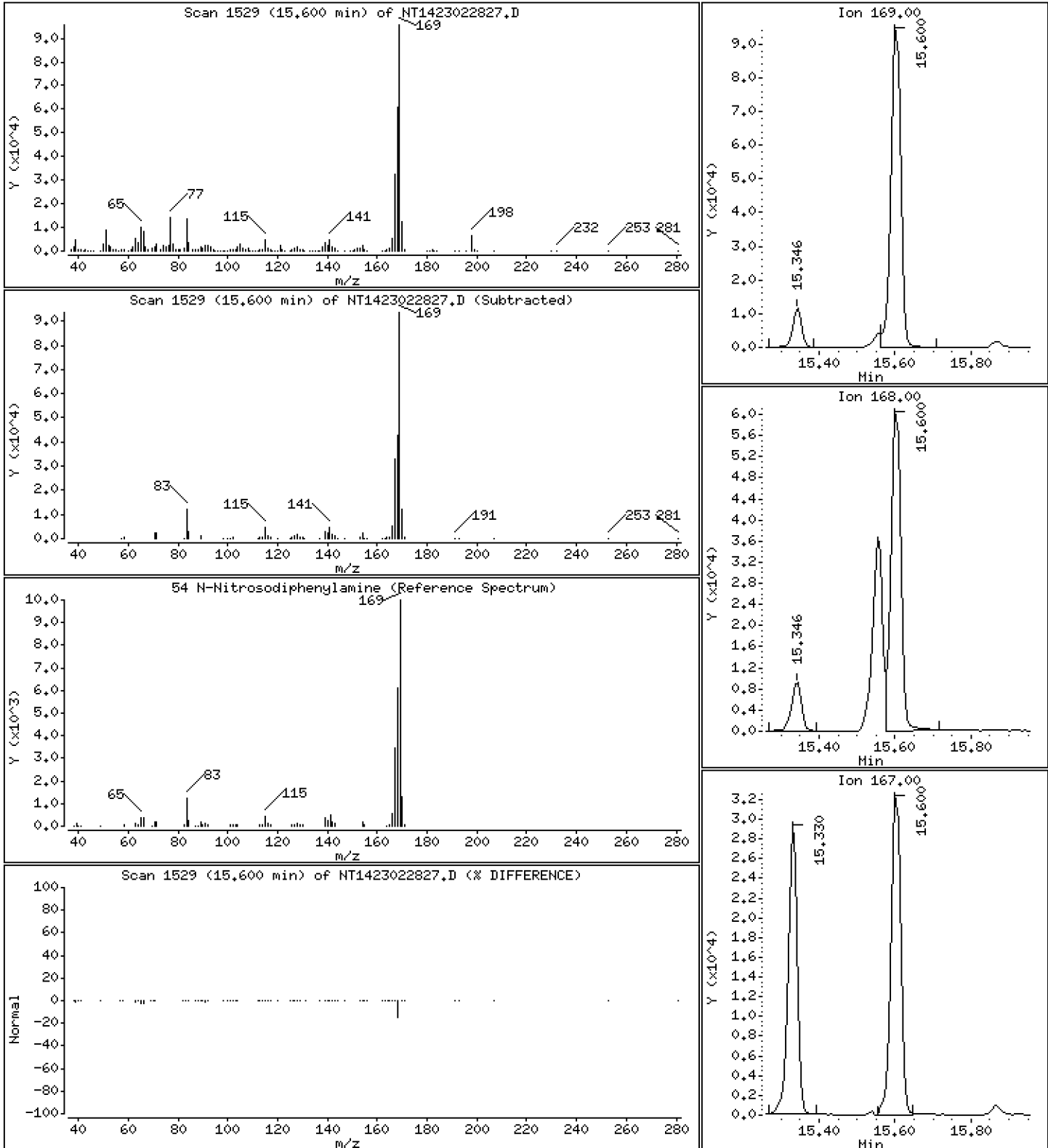
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

54 N-Nitrosodiphenylamine

Concentration: 2,813 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

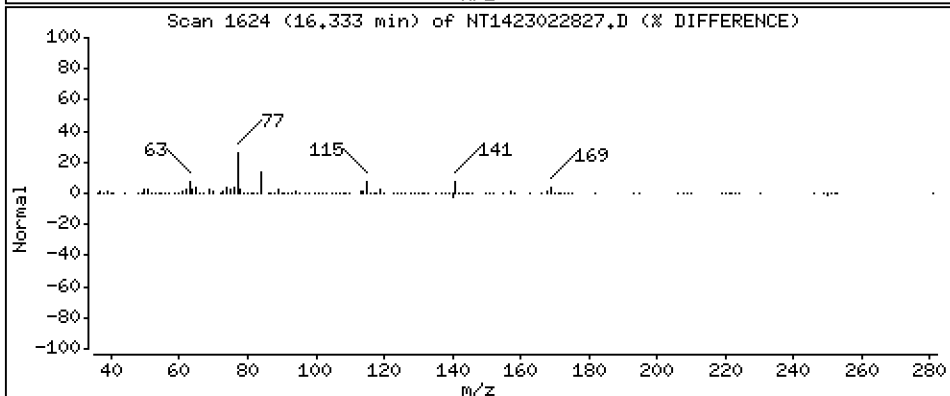
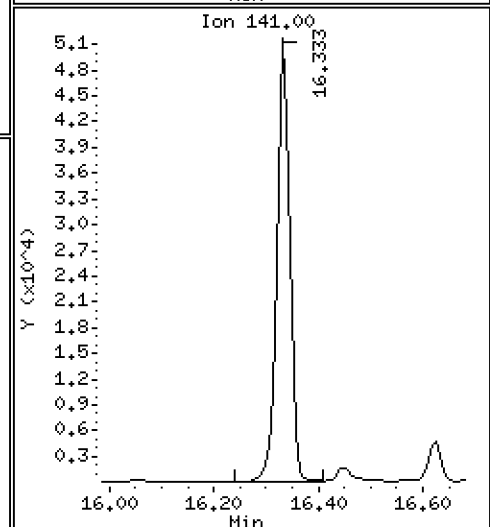
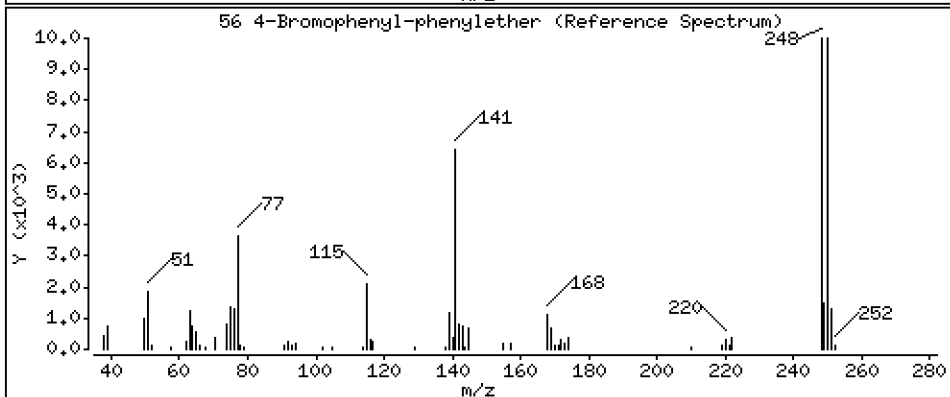
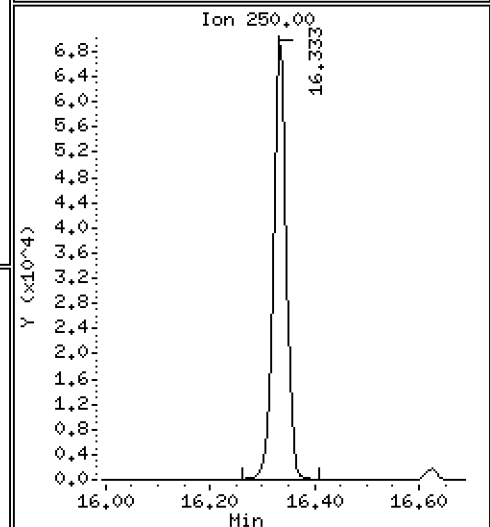
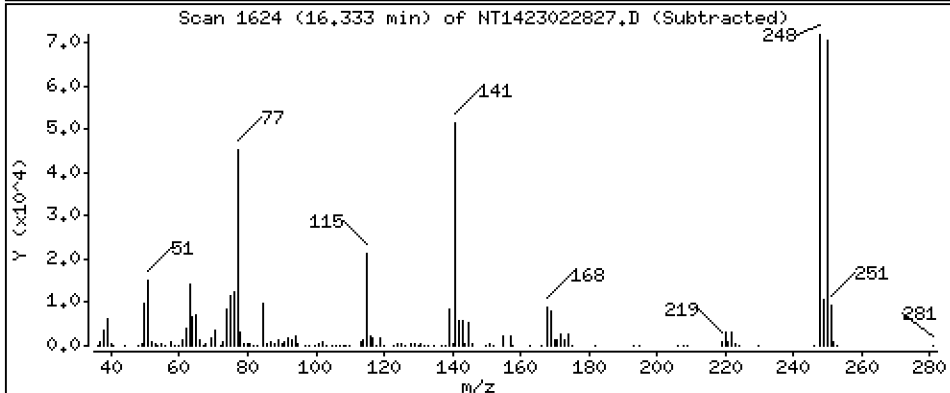
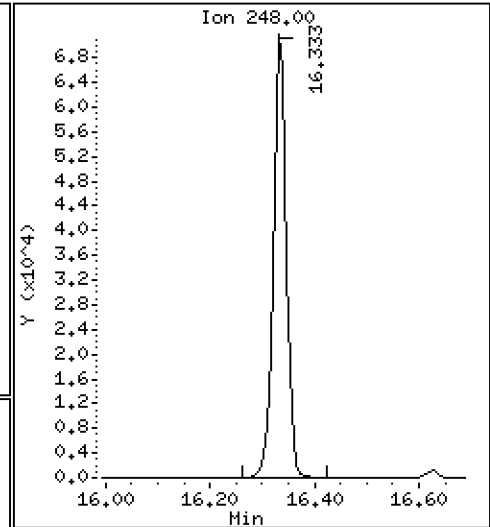
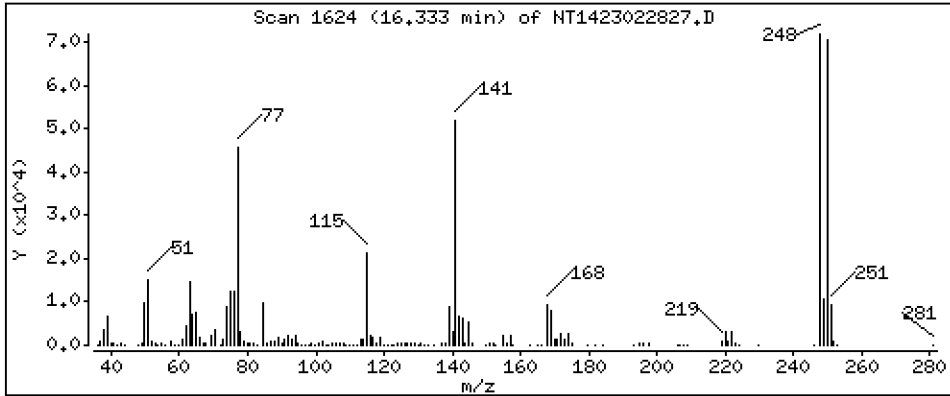
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 4,893 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

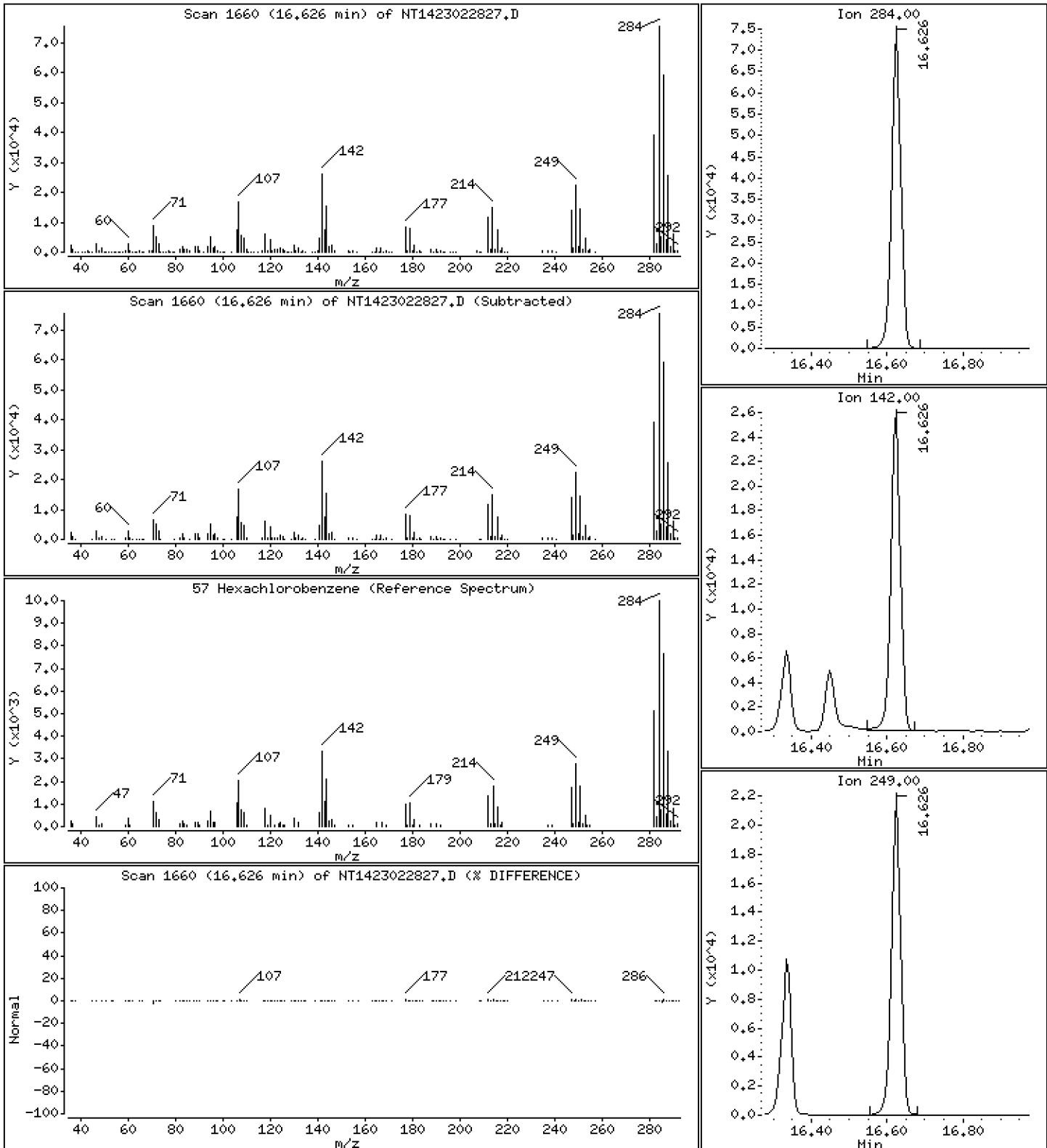
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

57 Hexachlorobenzene

Concentration: 4,485 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

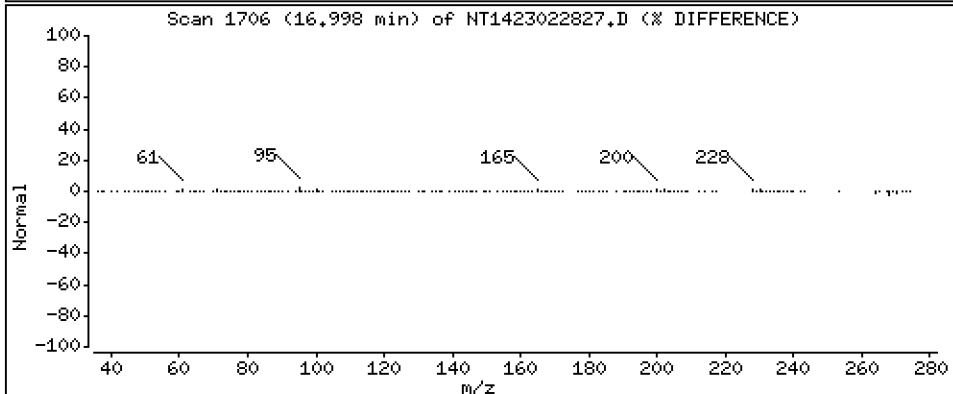
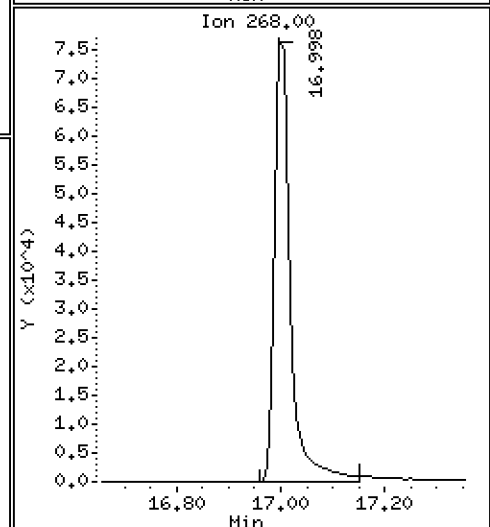
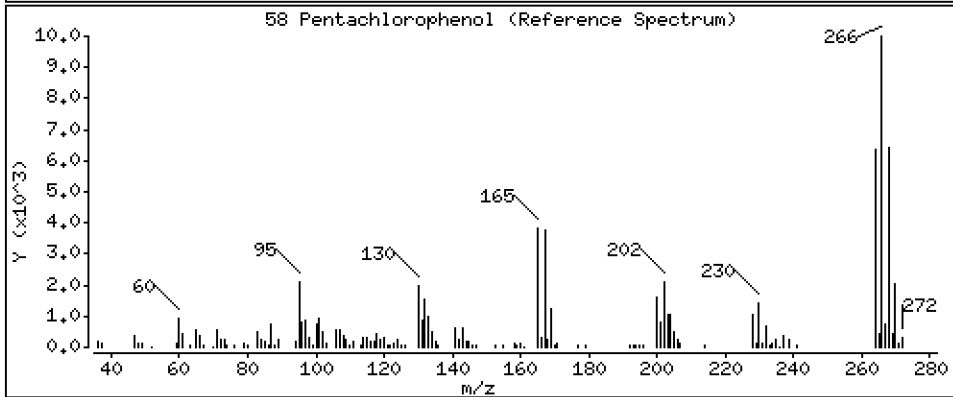
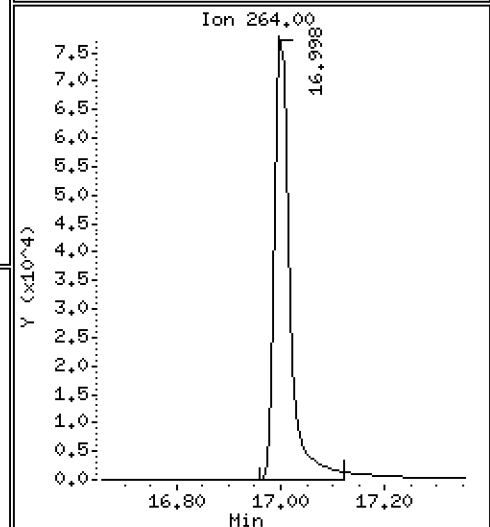
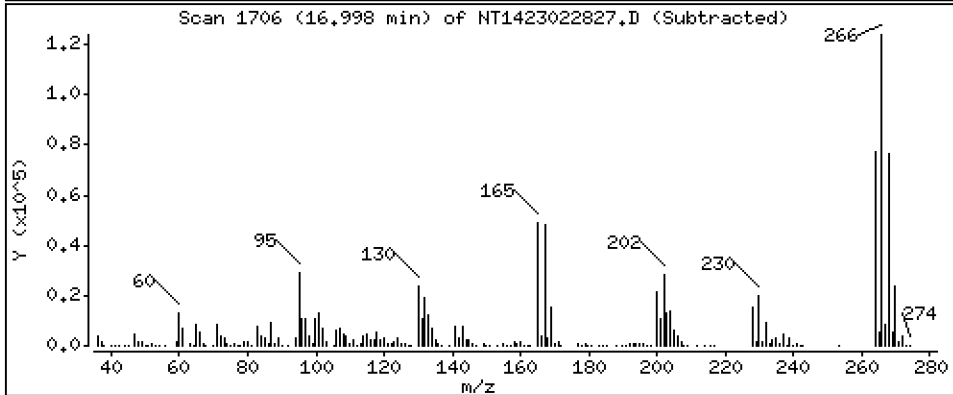
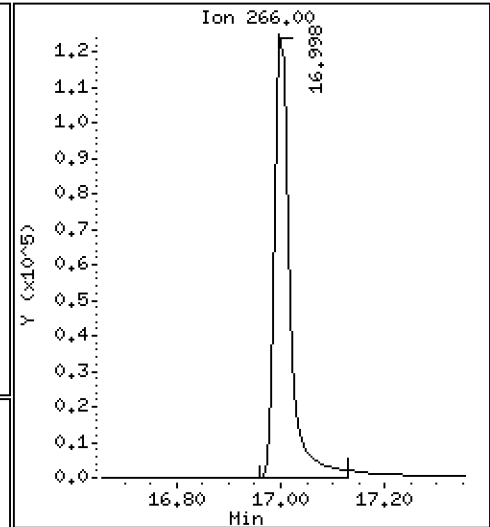
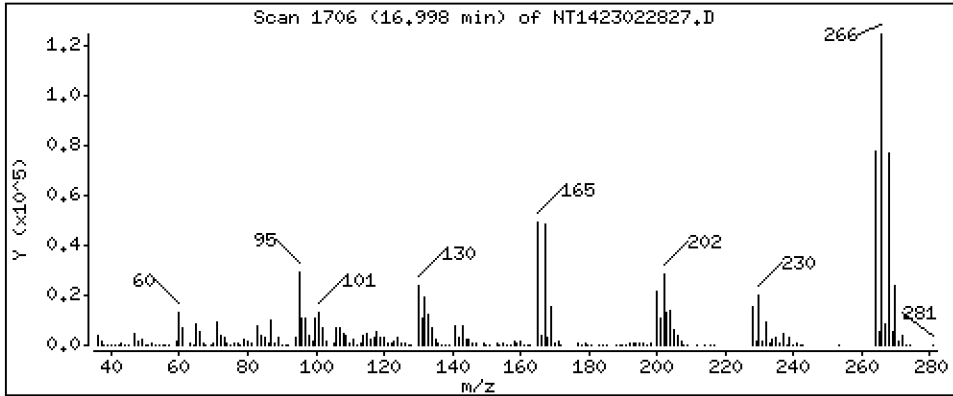
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 17,30 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

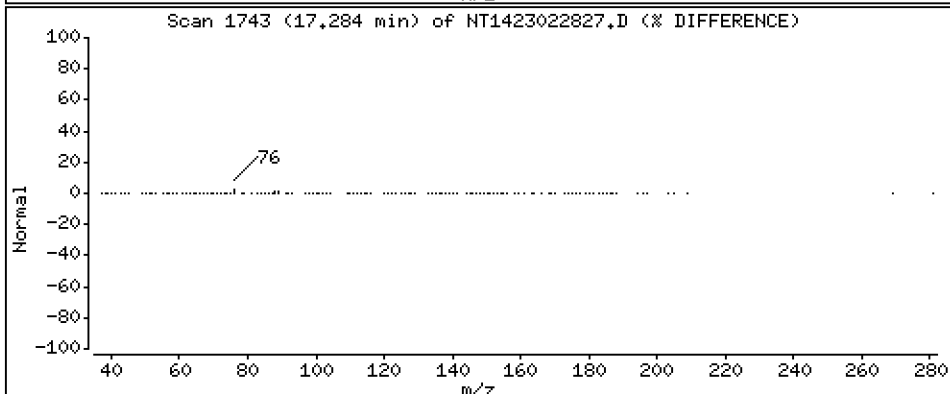
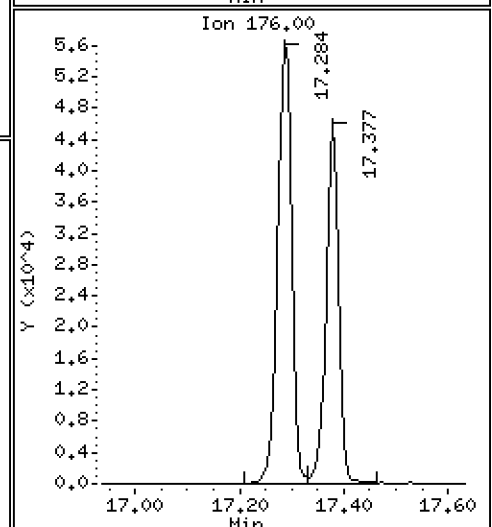
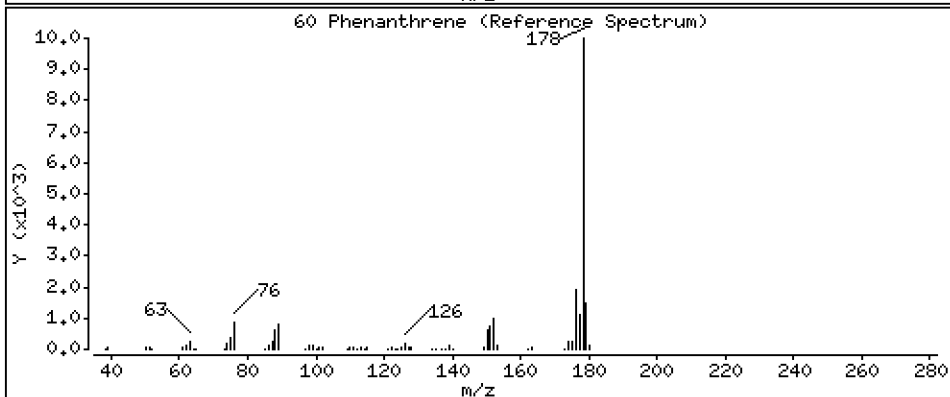
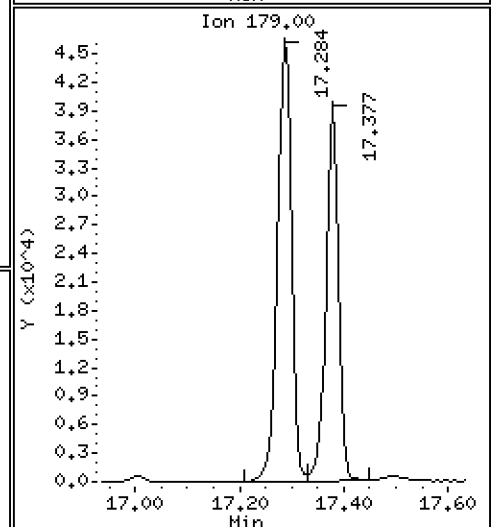
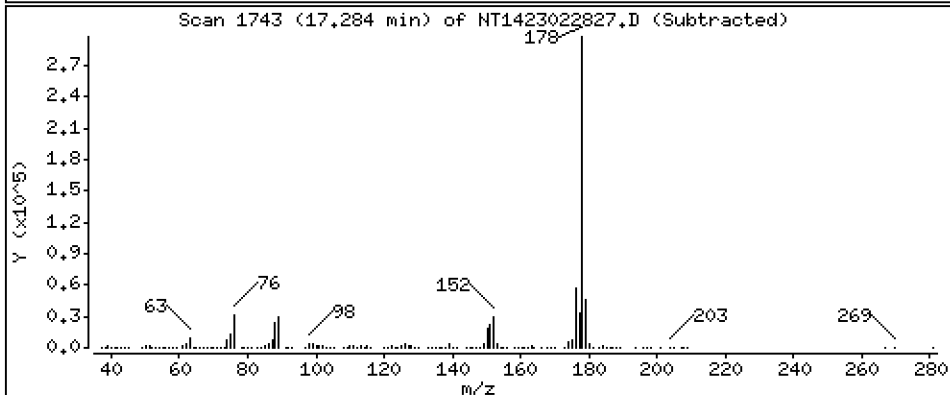
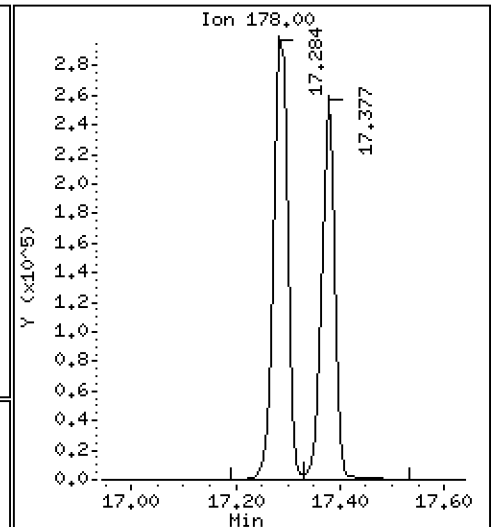
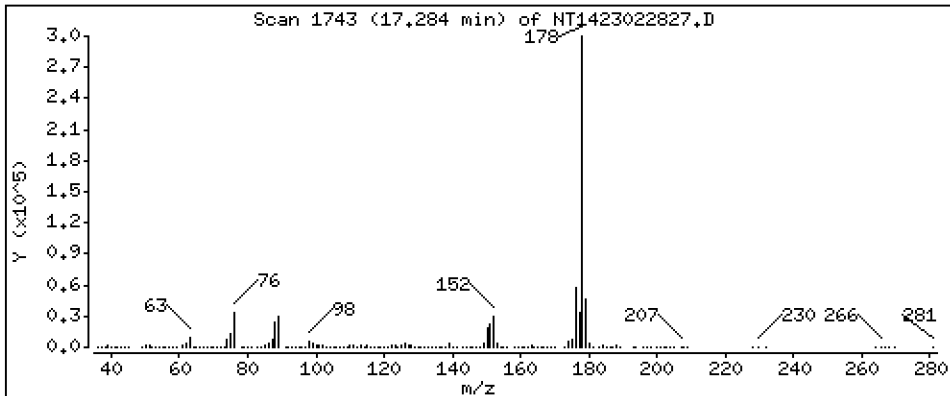
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 4,460 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

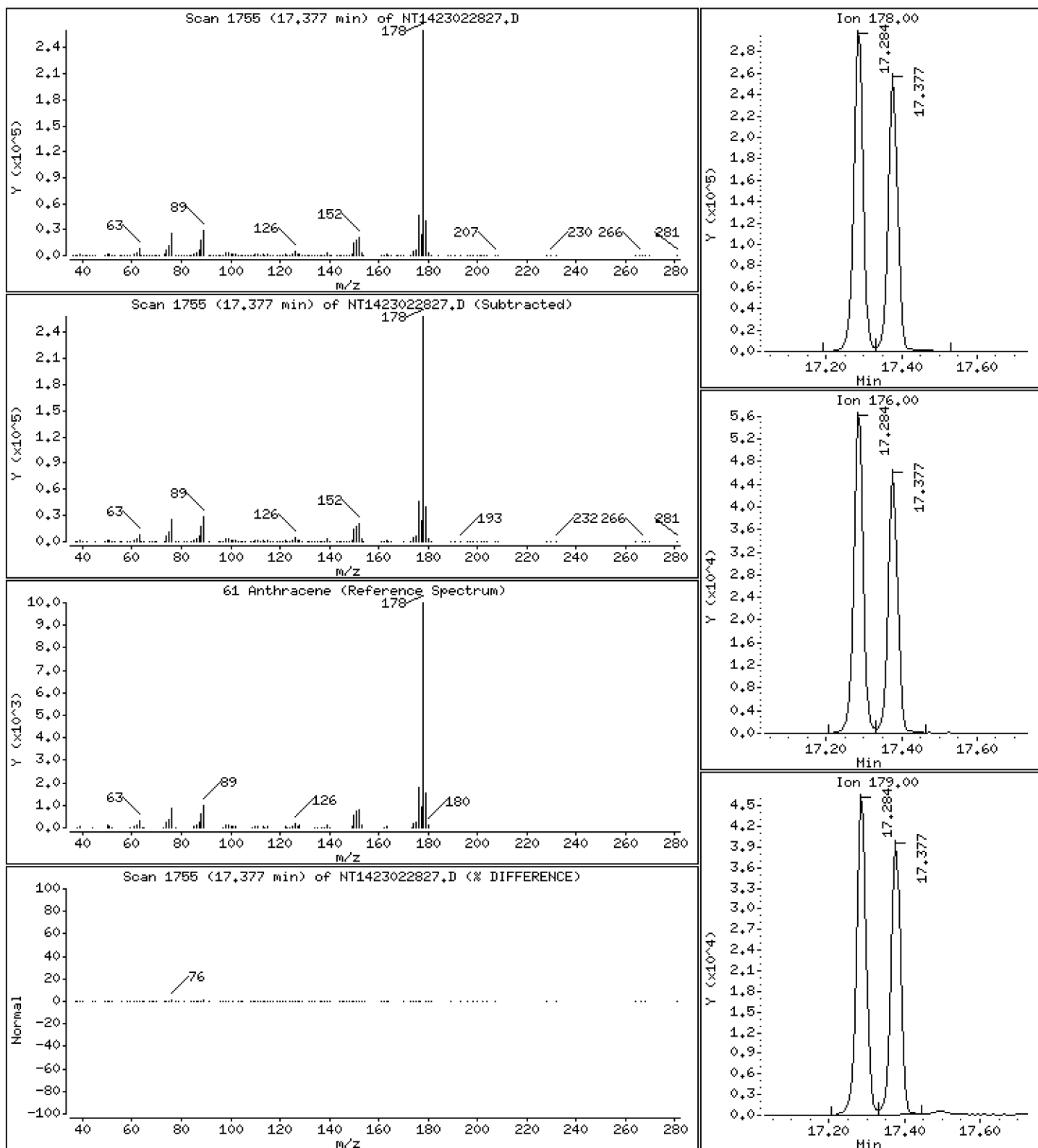
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 3,821 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

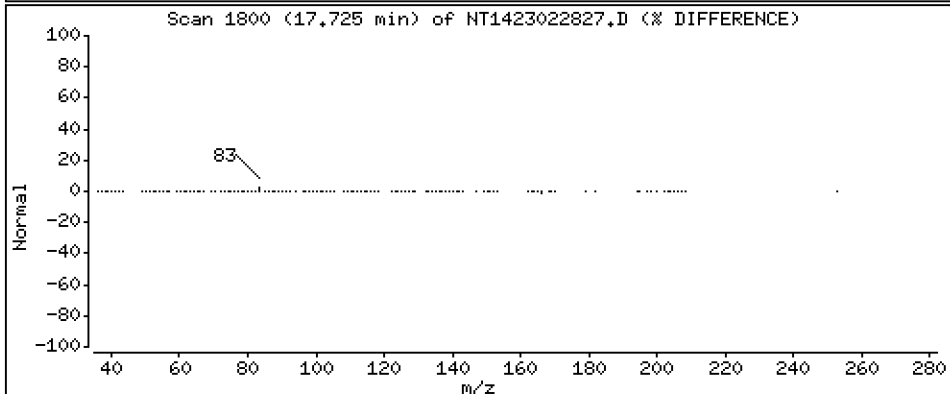
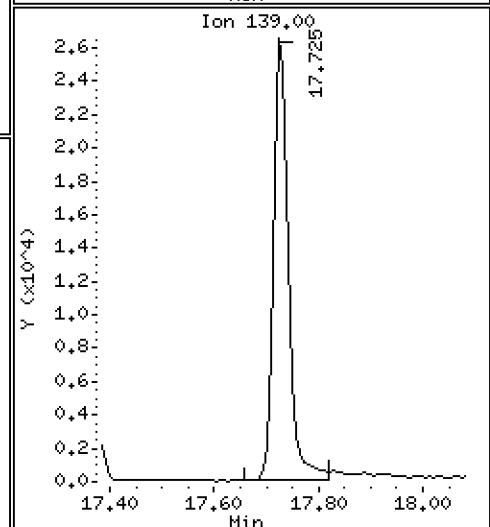
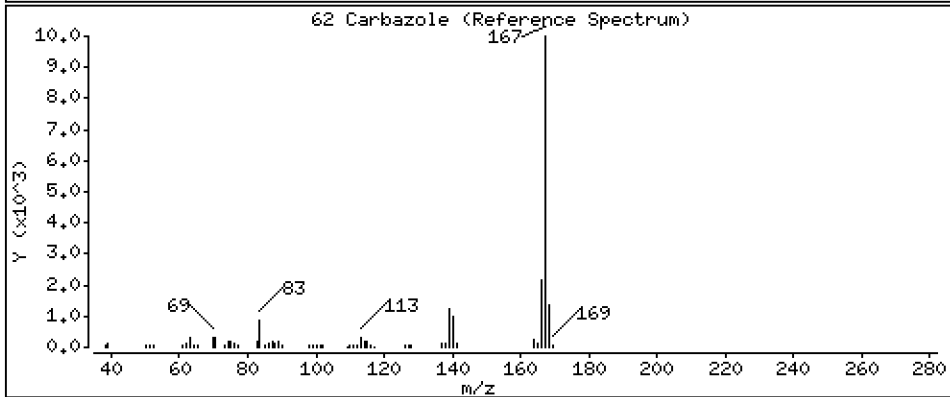
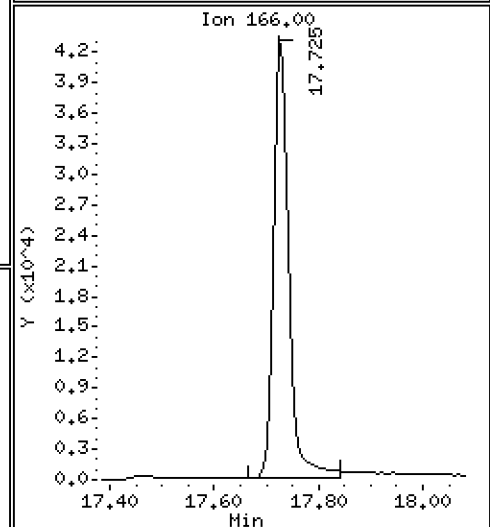
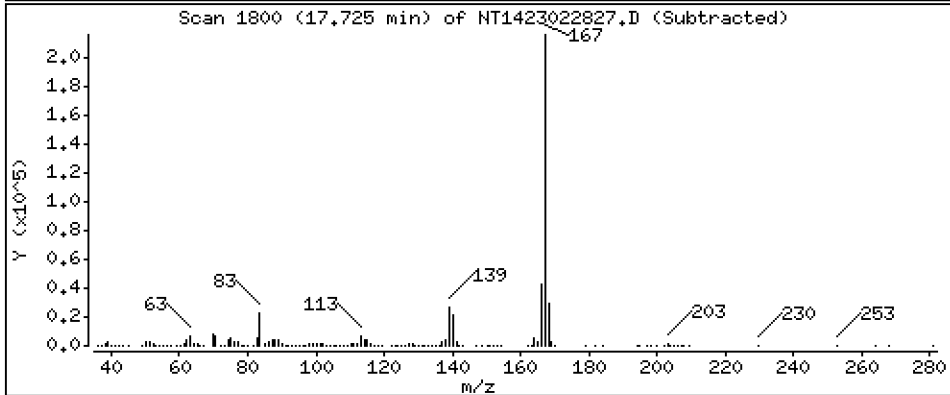
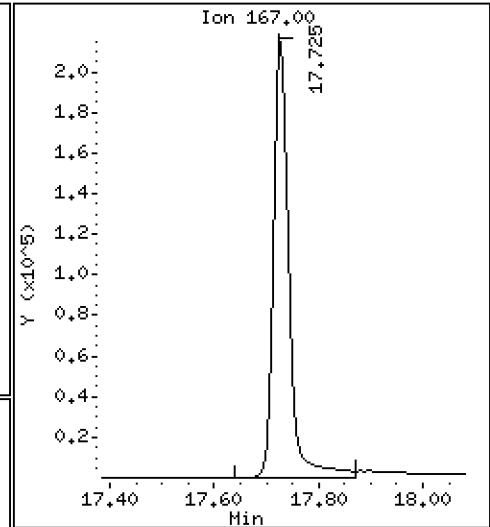
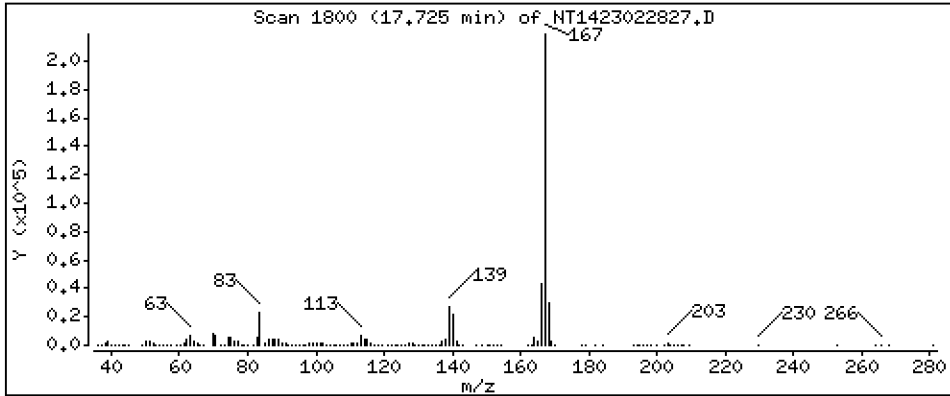
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 4,318 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

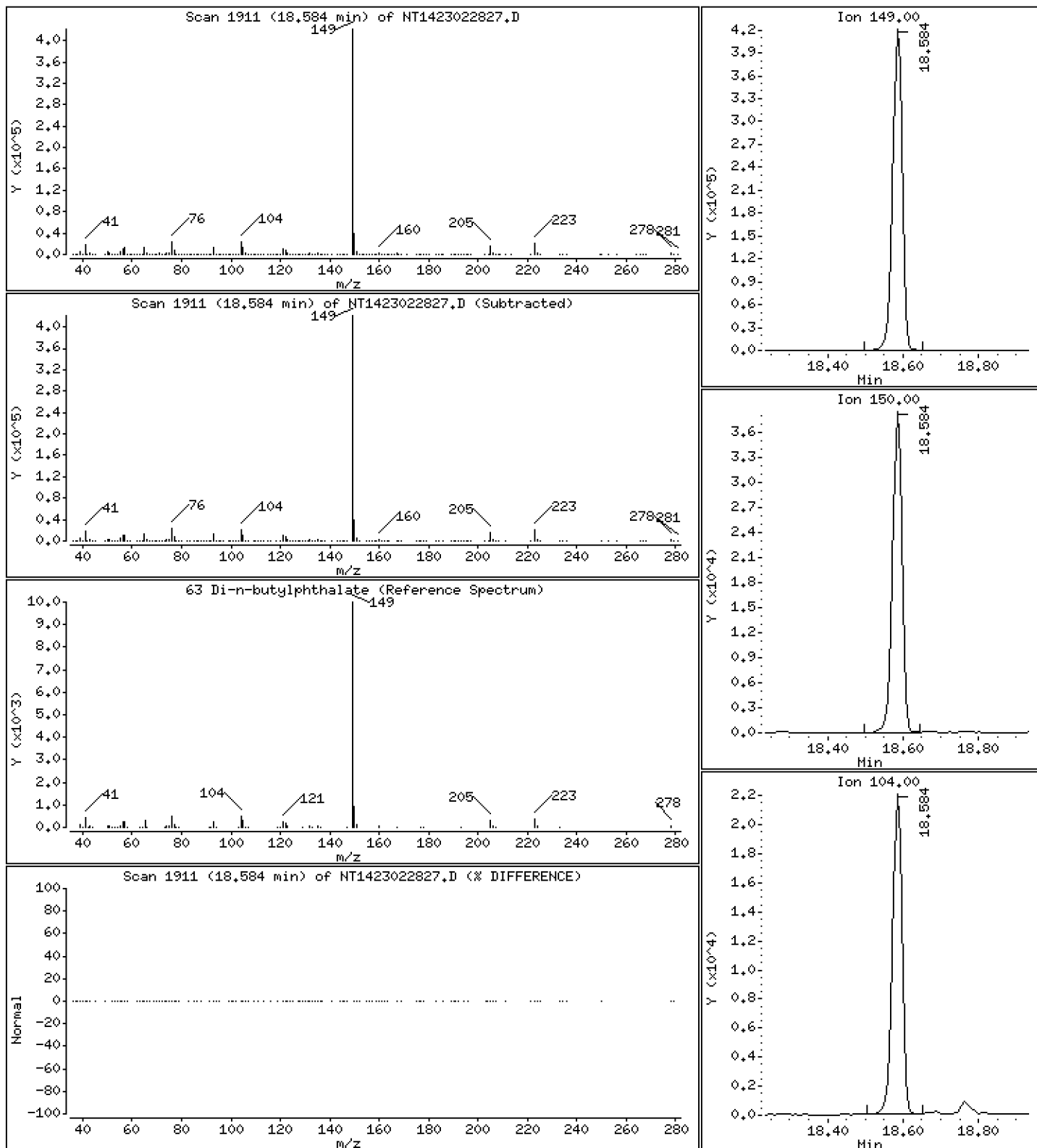
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 5,557 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

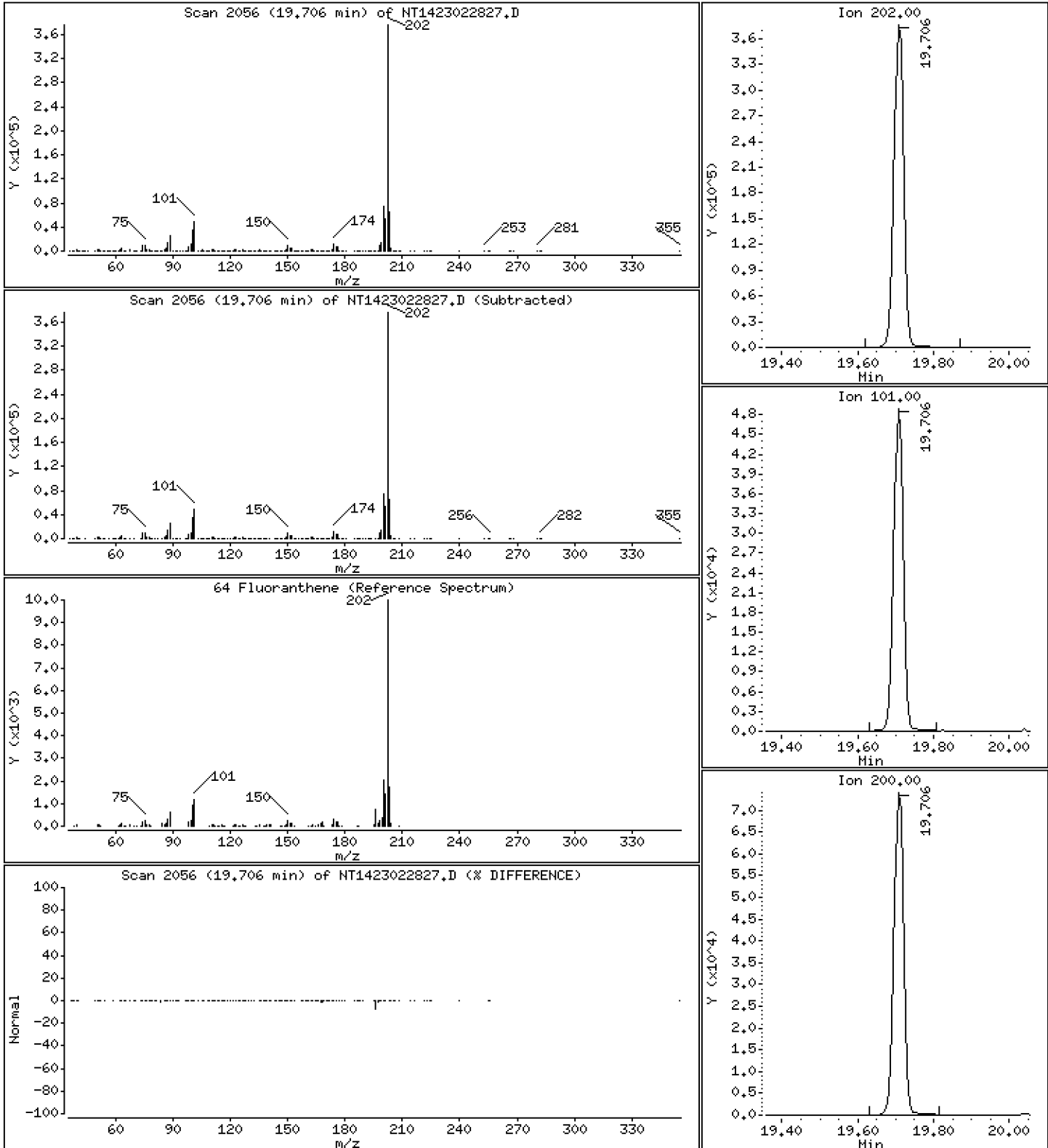
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 4,893 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

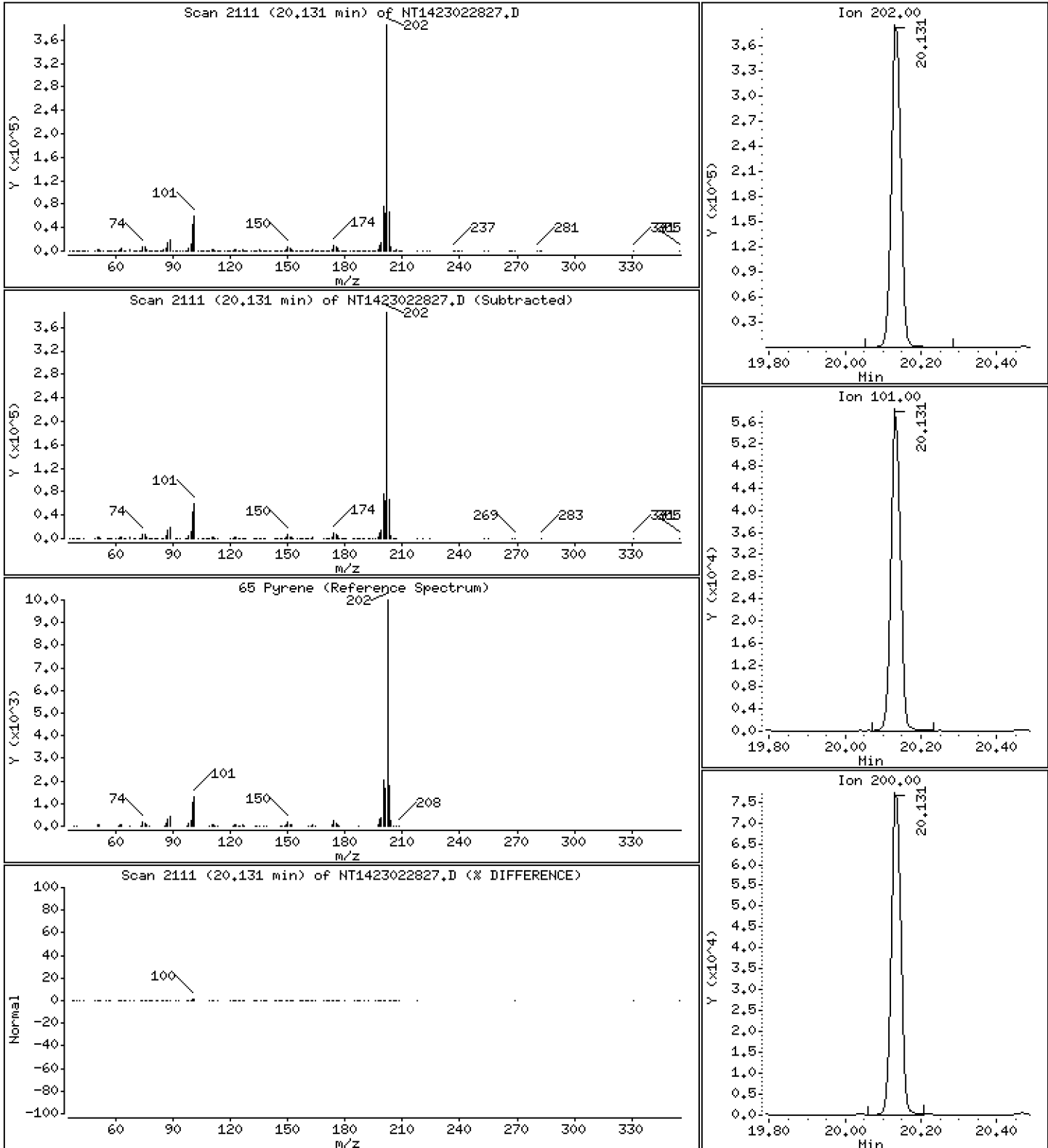
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 4,589 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

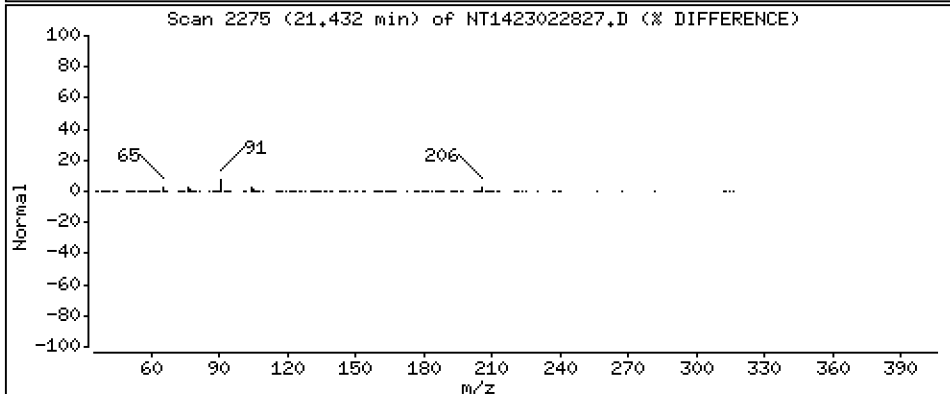
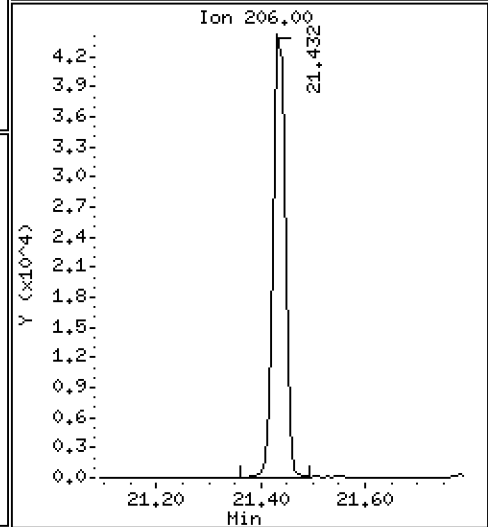
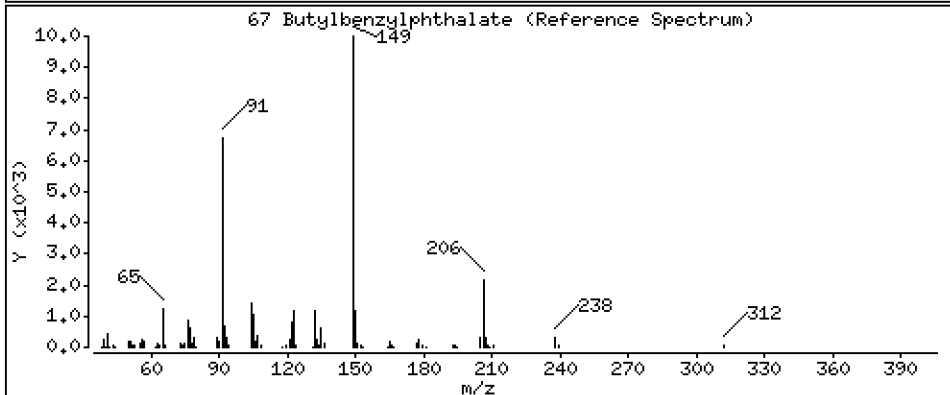
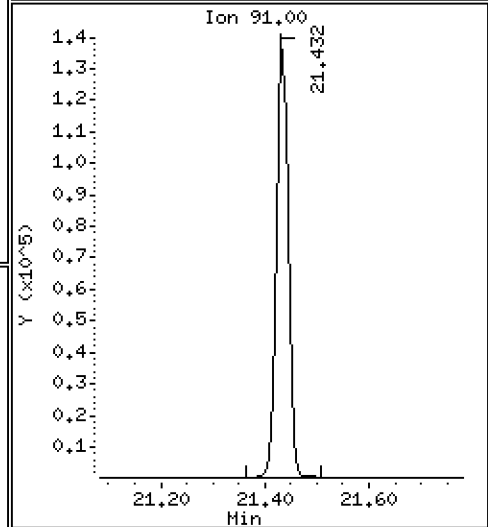
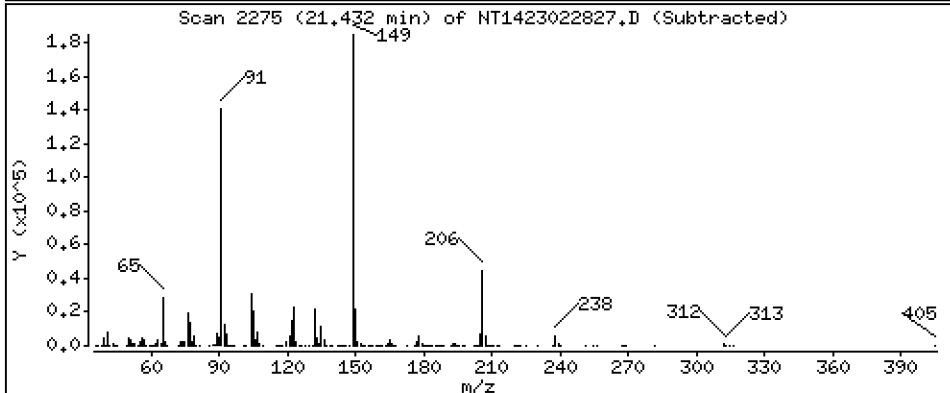
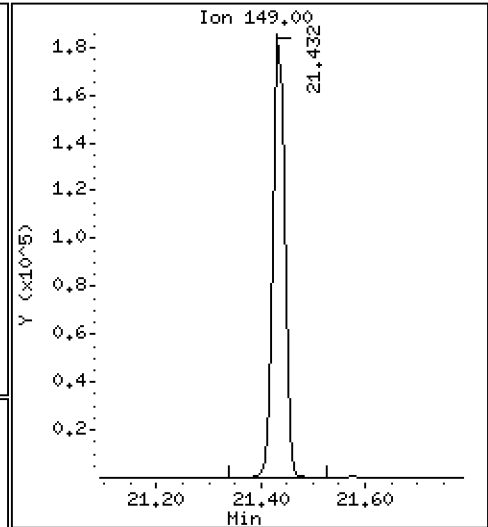
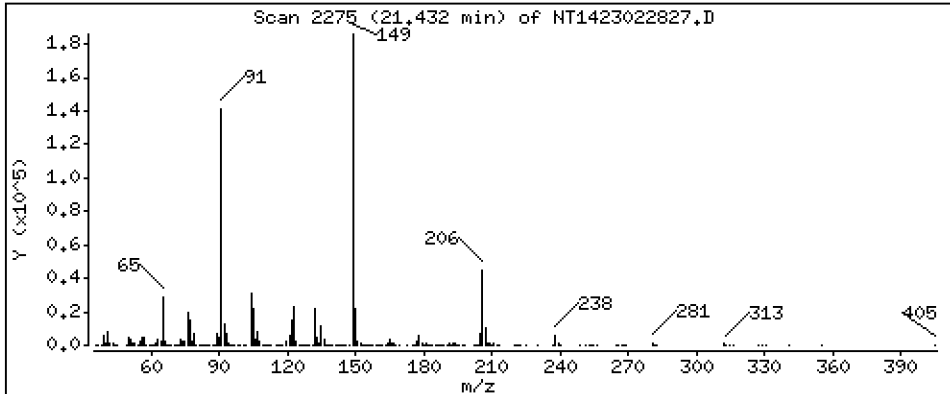
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 5,656 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

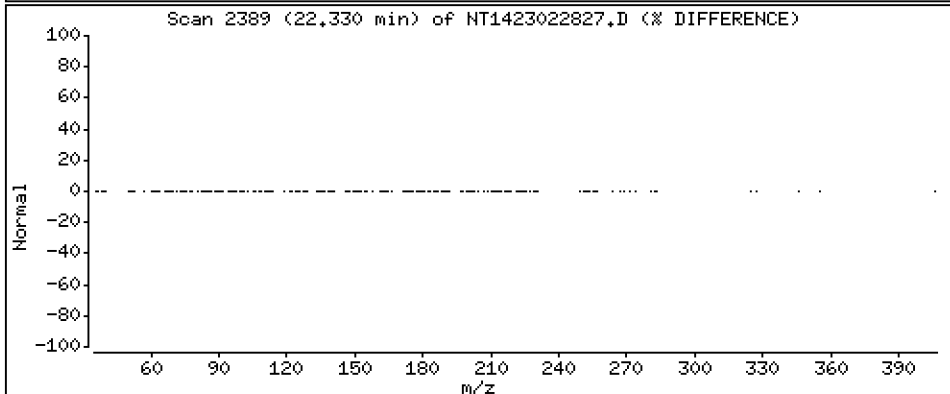
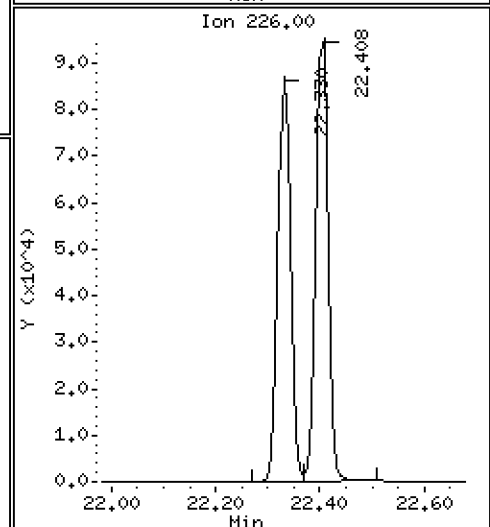
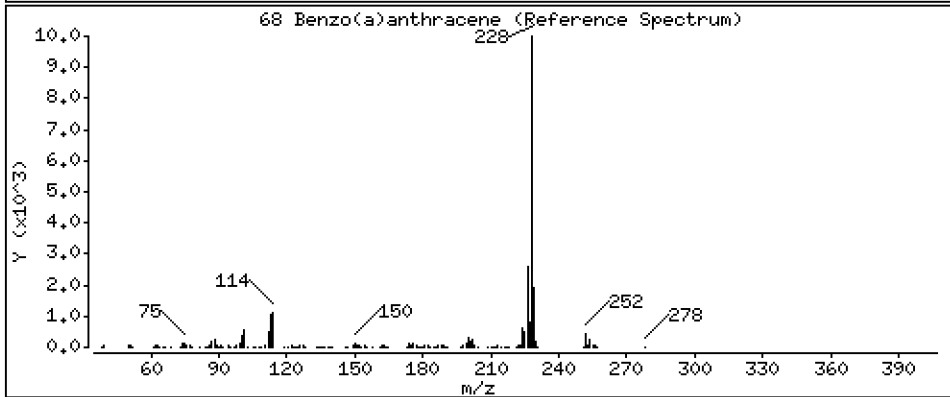
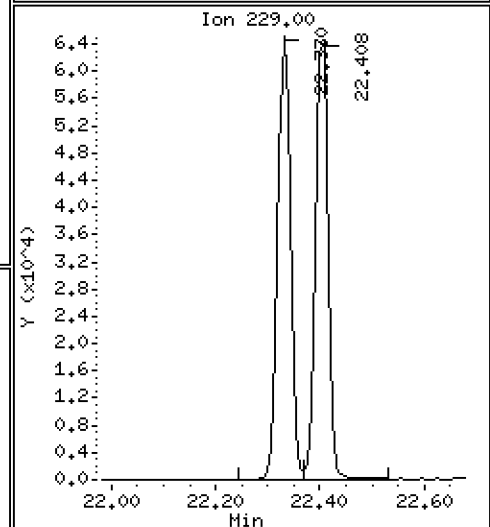
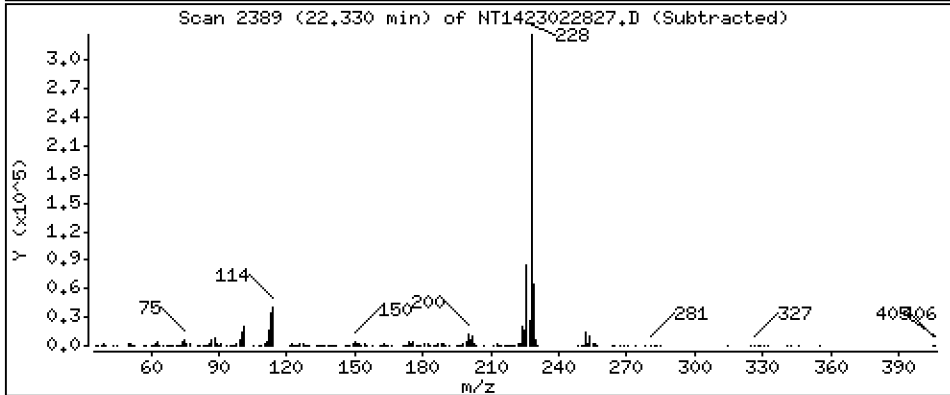
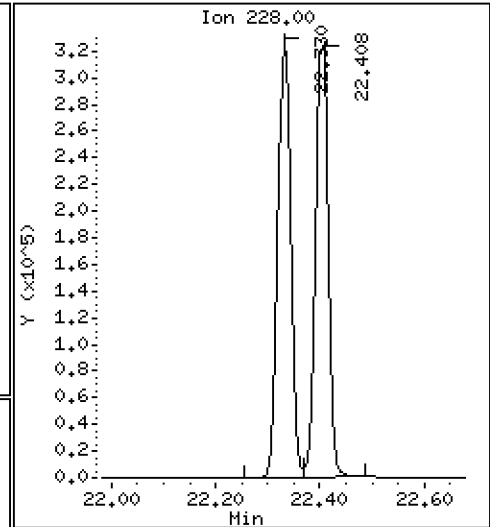
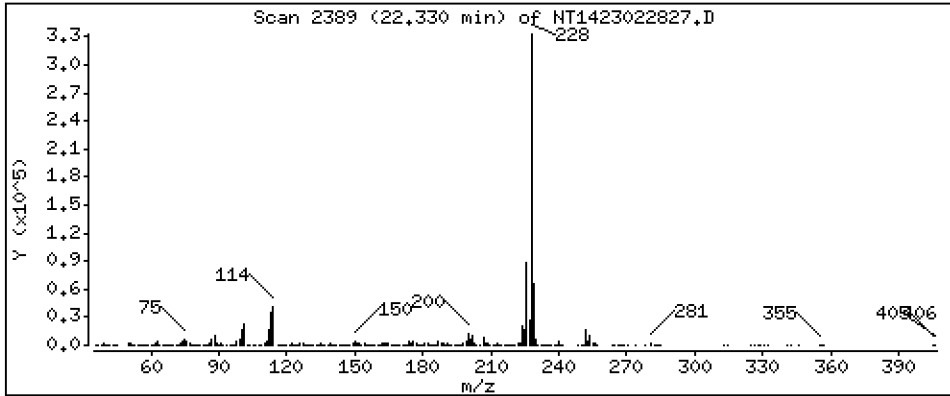
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 4,650 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

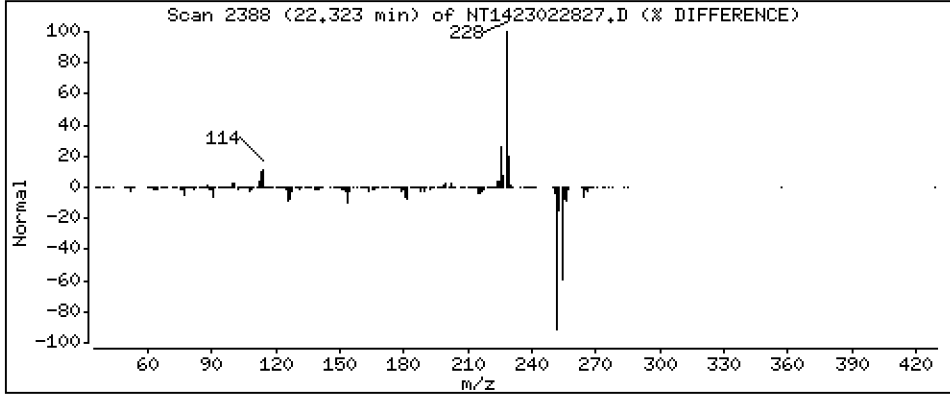
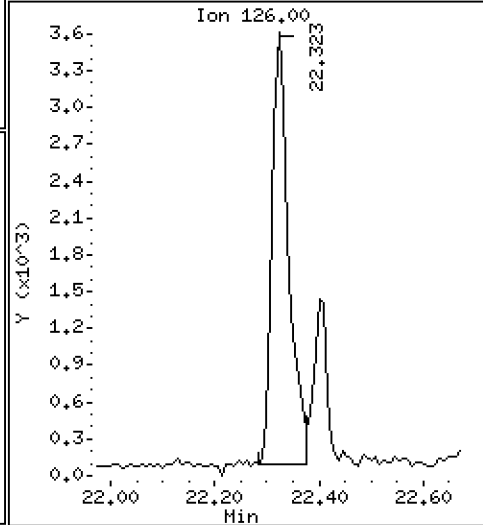
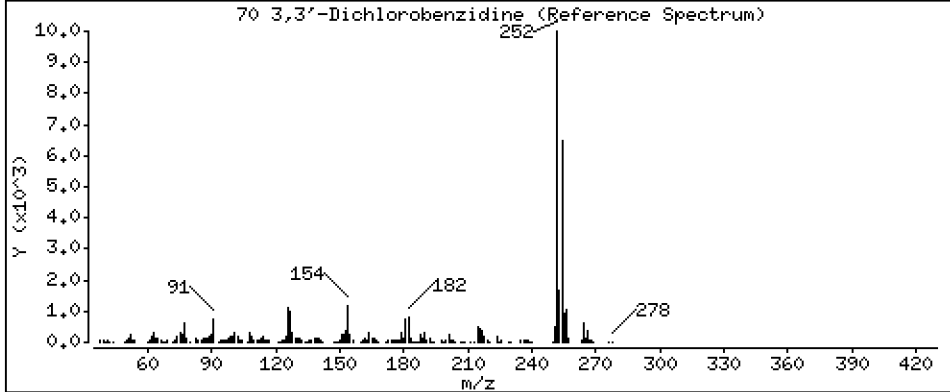
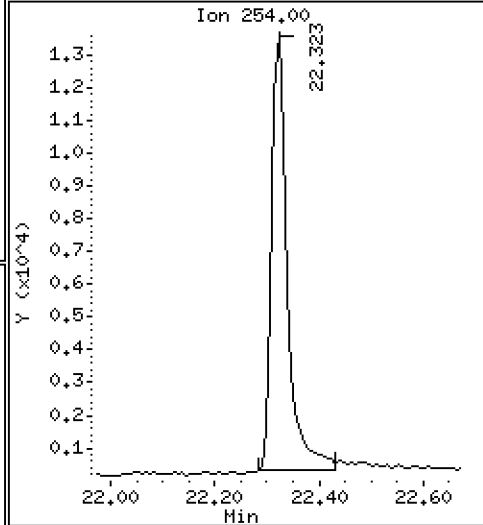
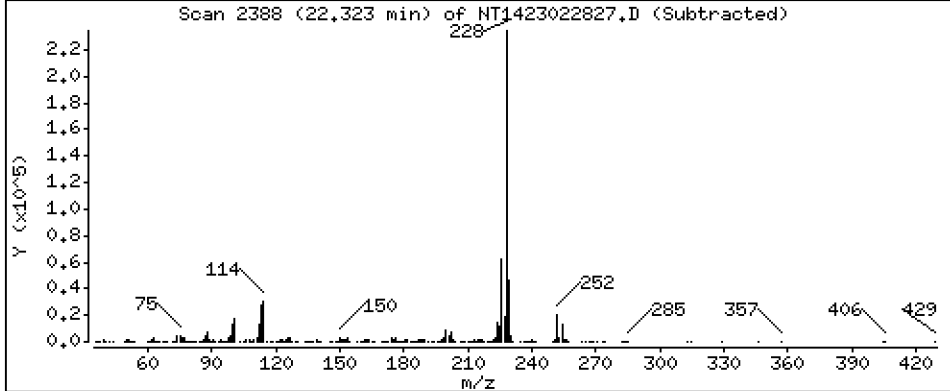
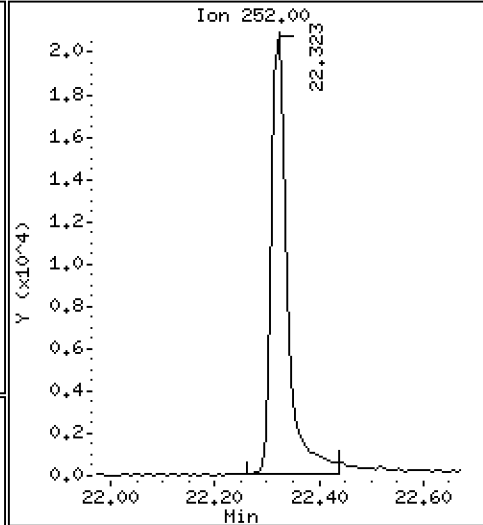
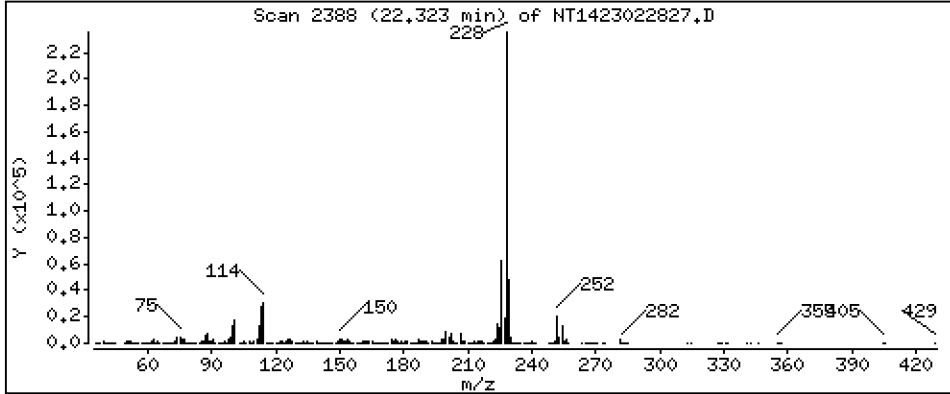
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

70 3,3'-Dichlorobenzidine

Concentration: 1,296 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

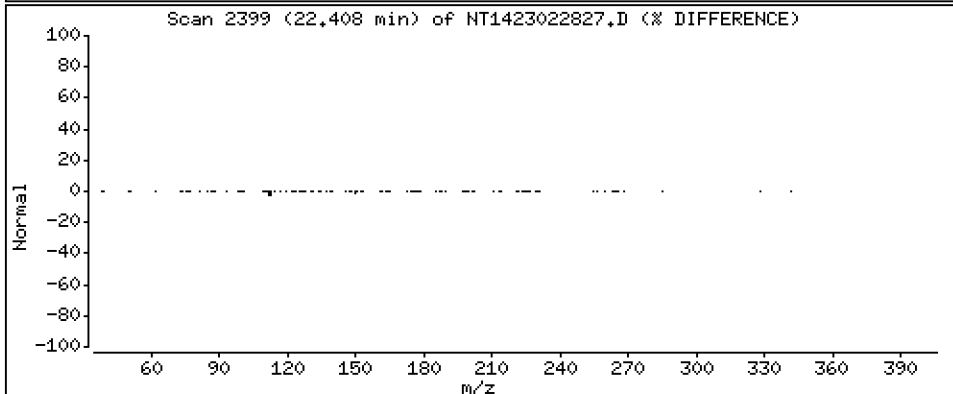
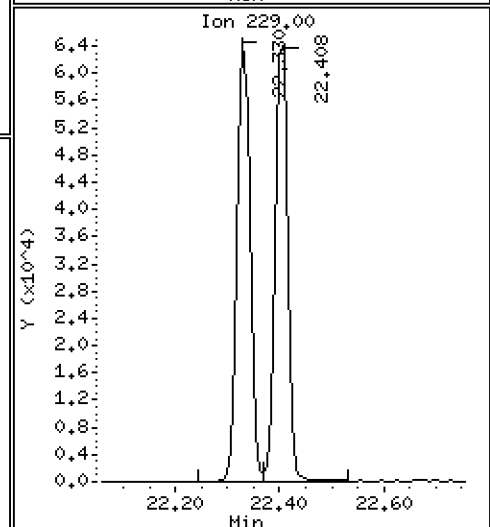
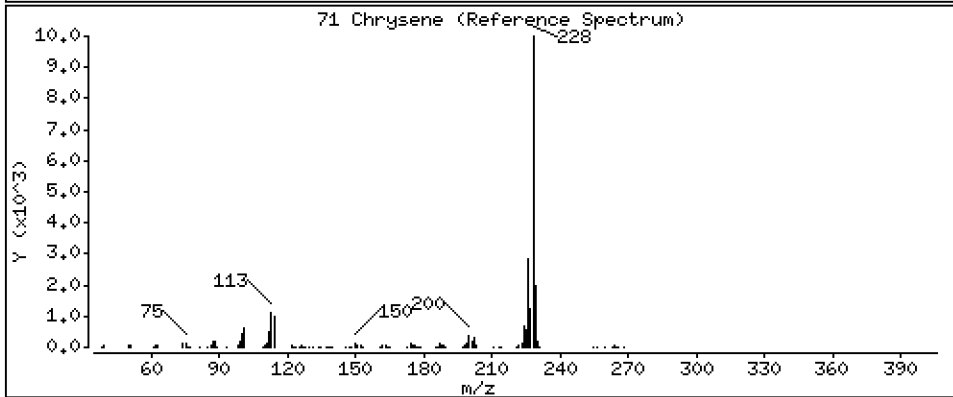
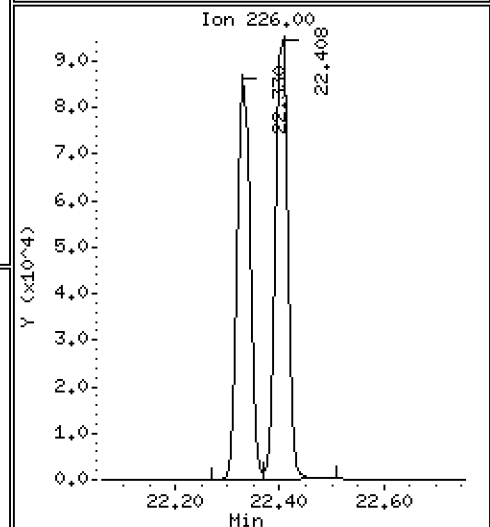
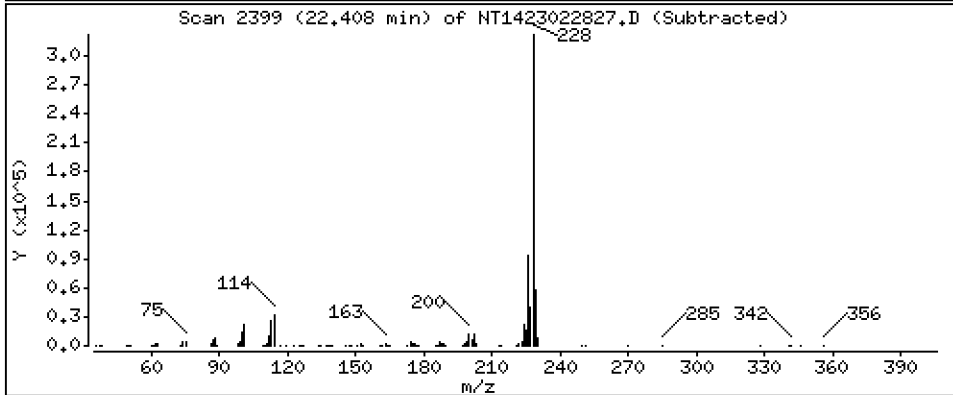
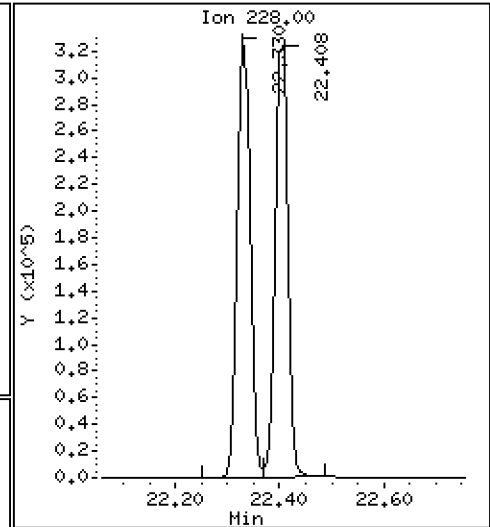
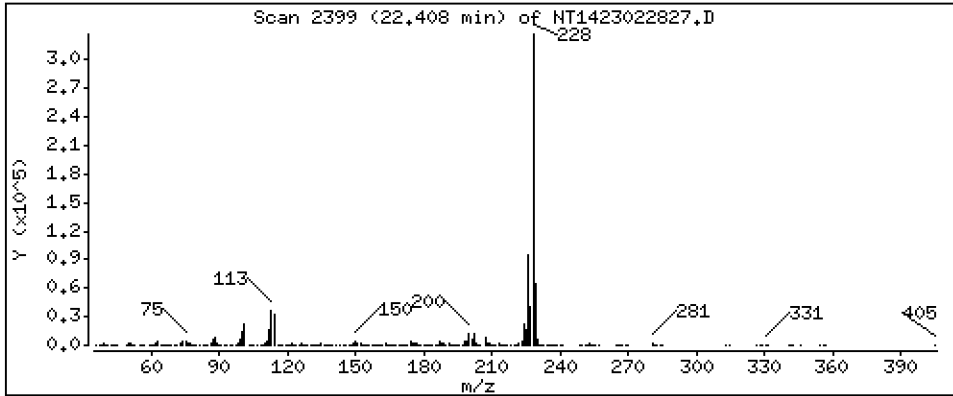
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 4,556 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

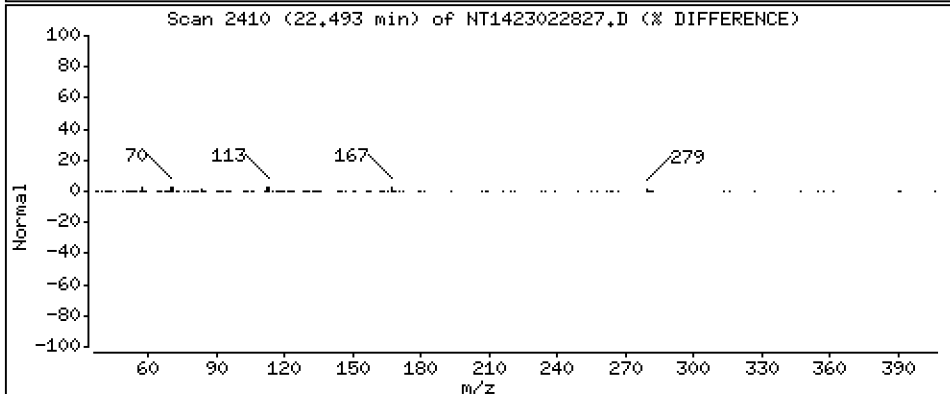
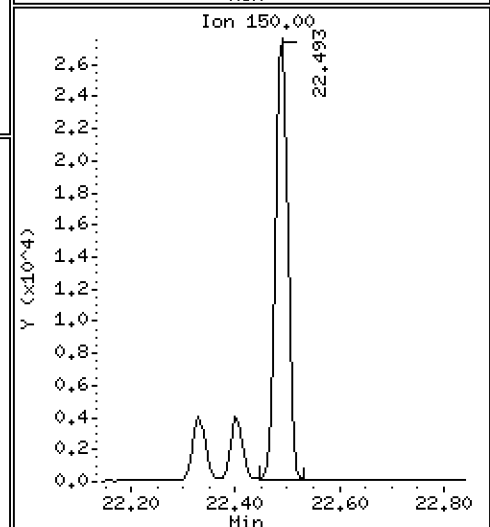
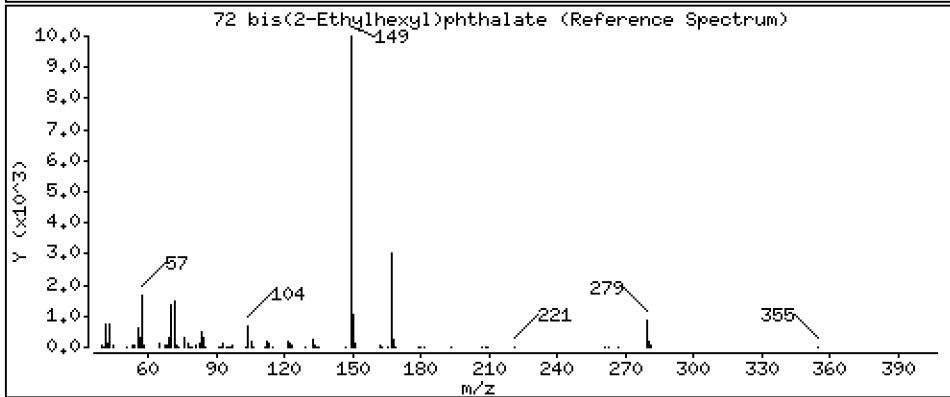
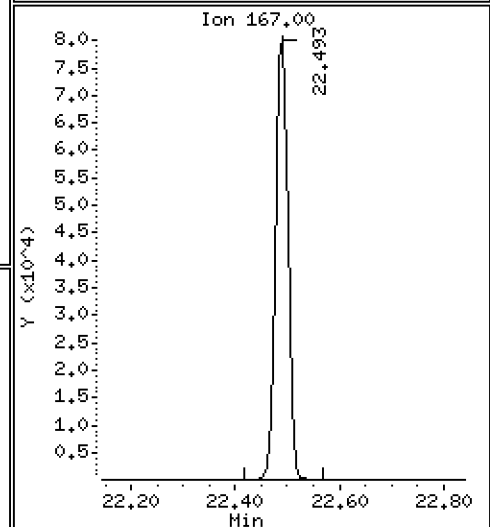
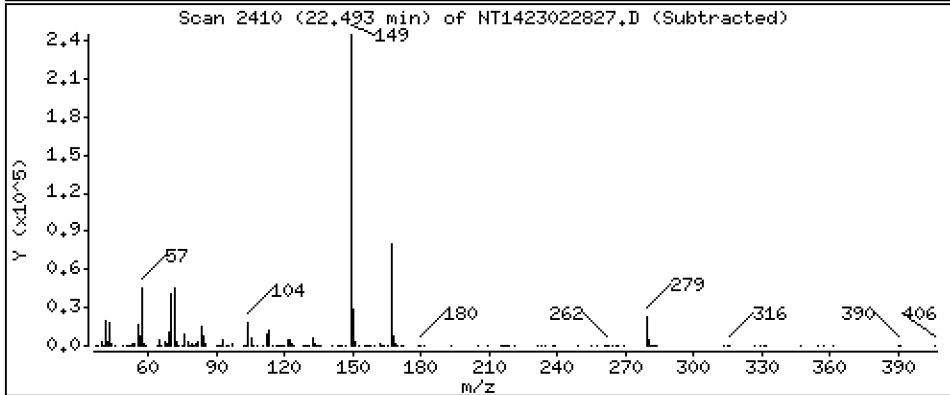
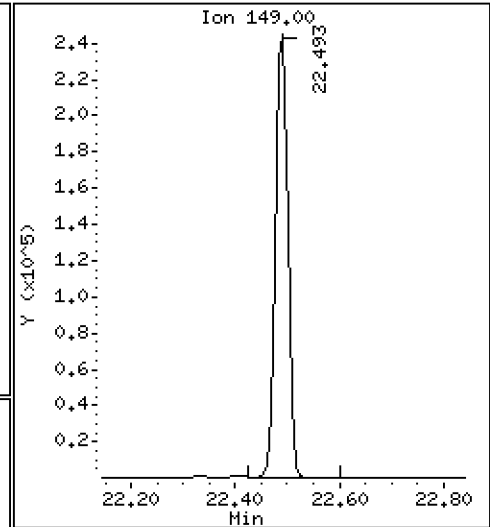
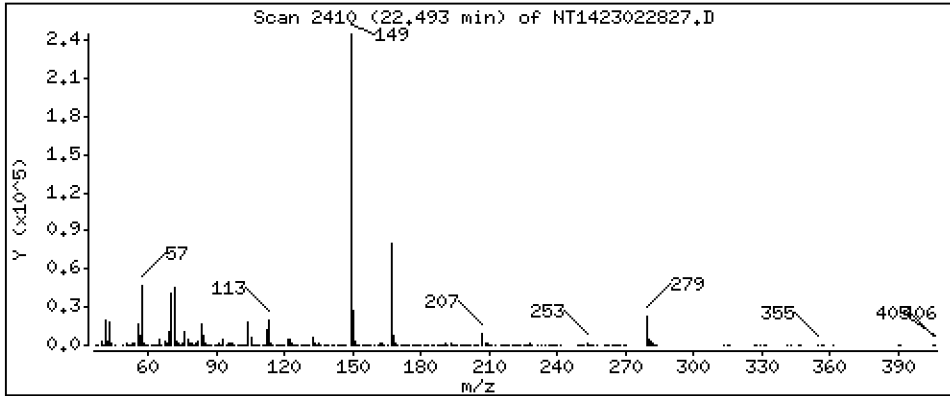
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 4,864 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

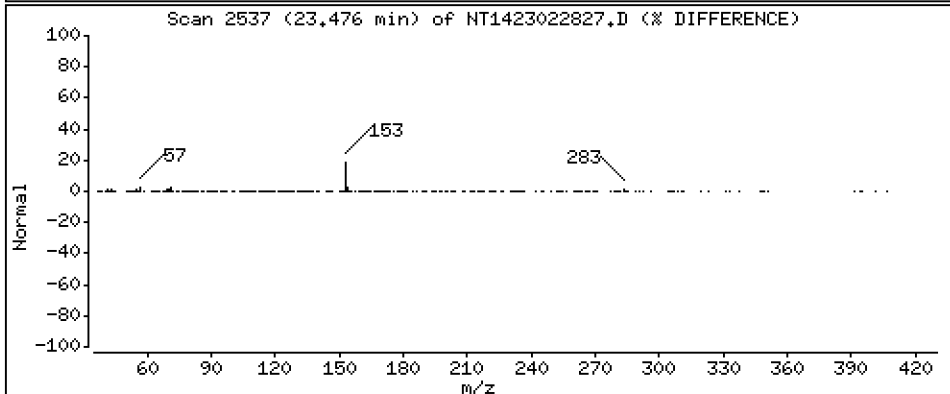
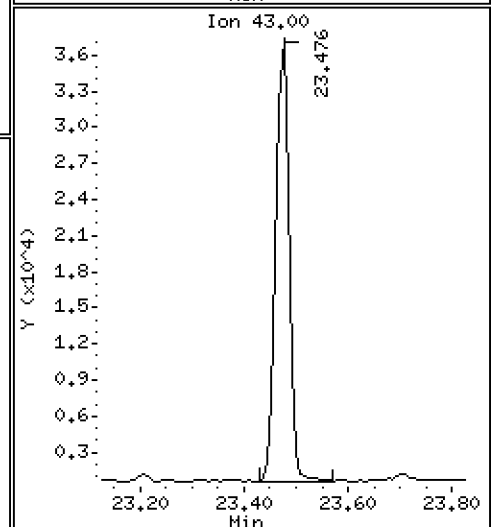
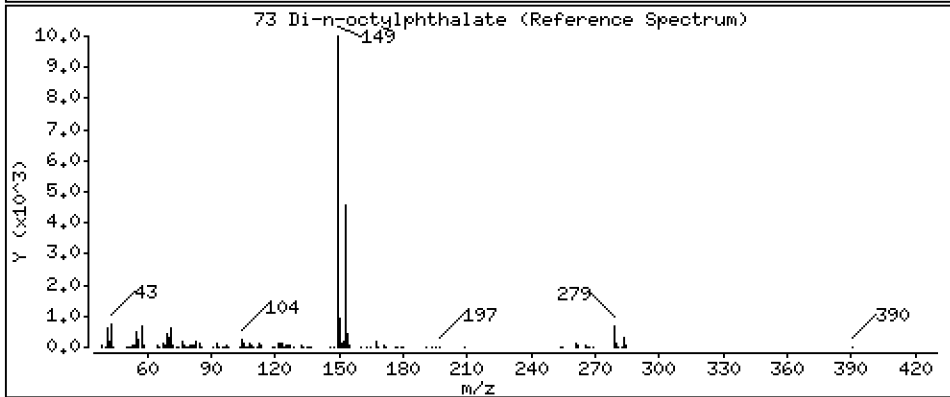
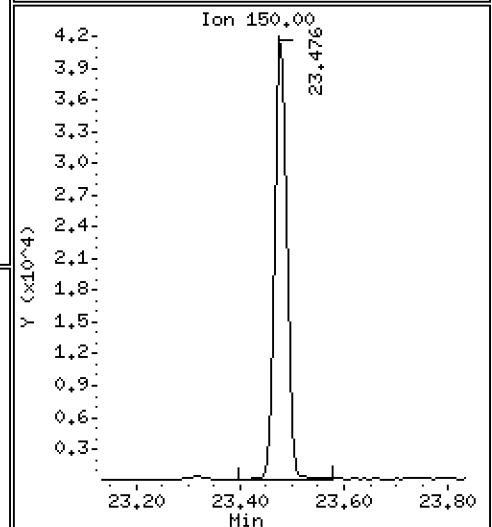
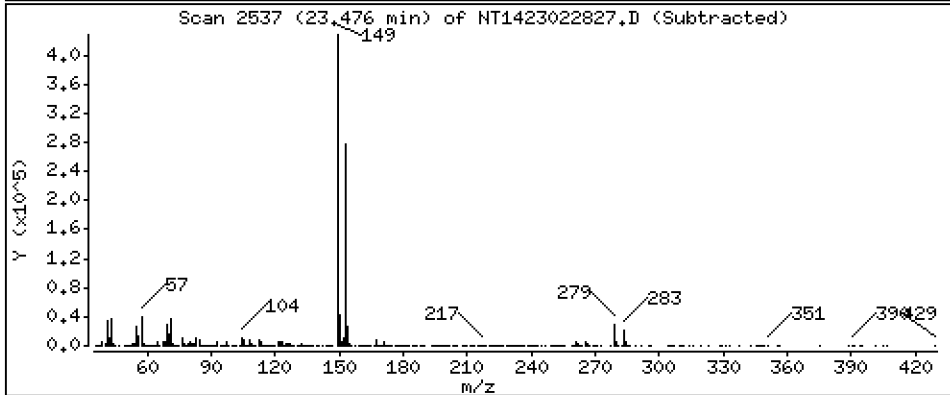
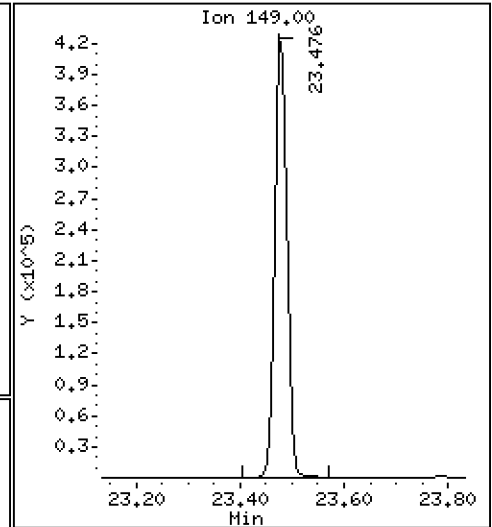
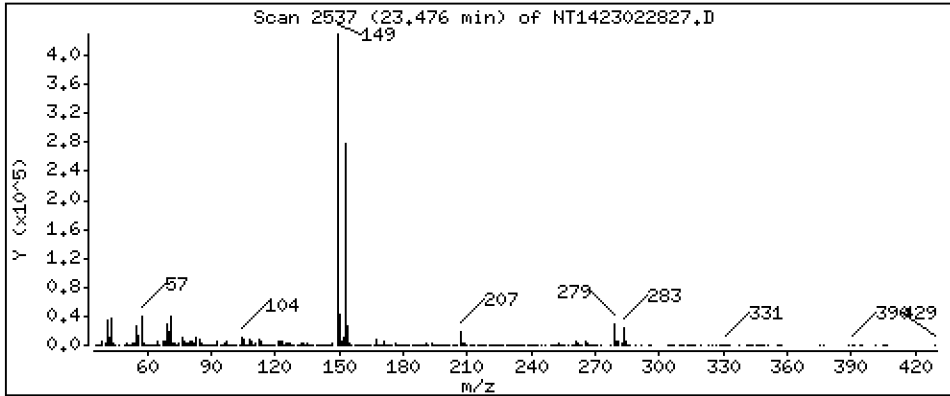
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 4,844 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

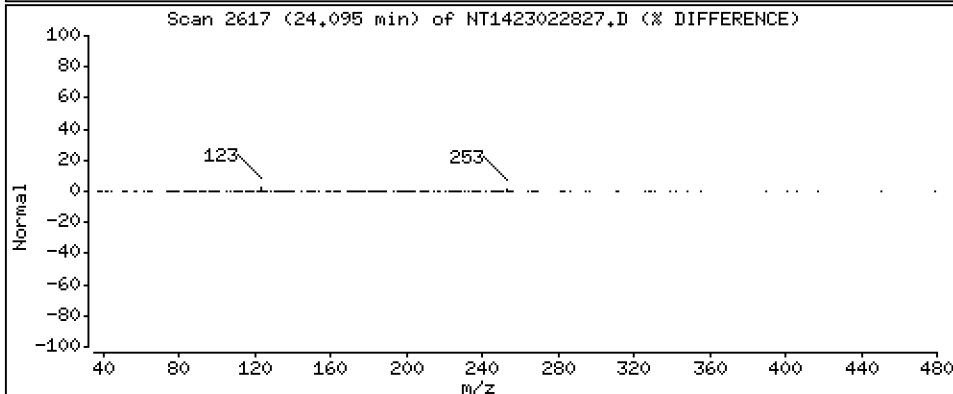
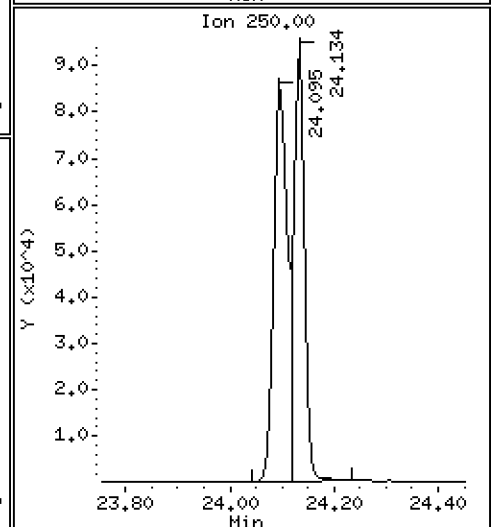
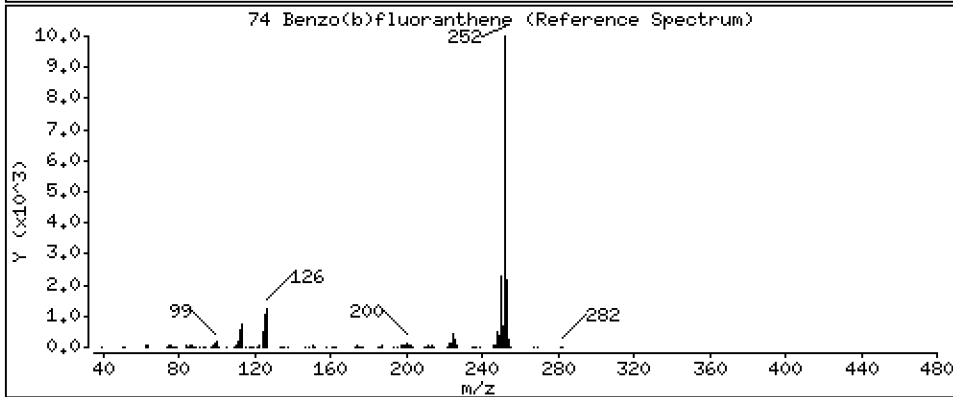
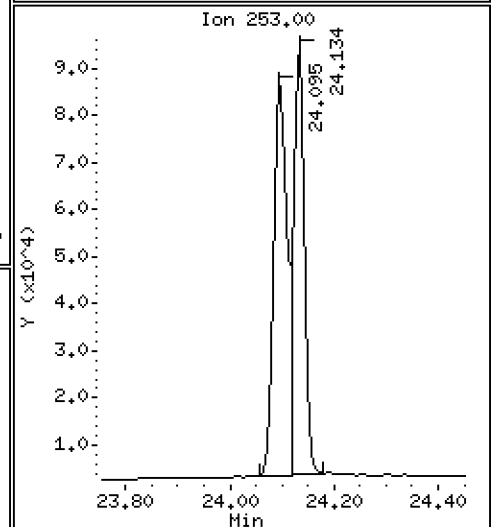
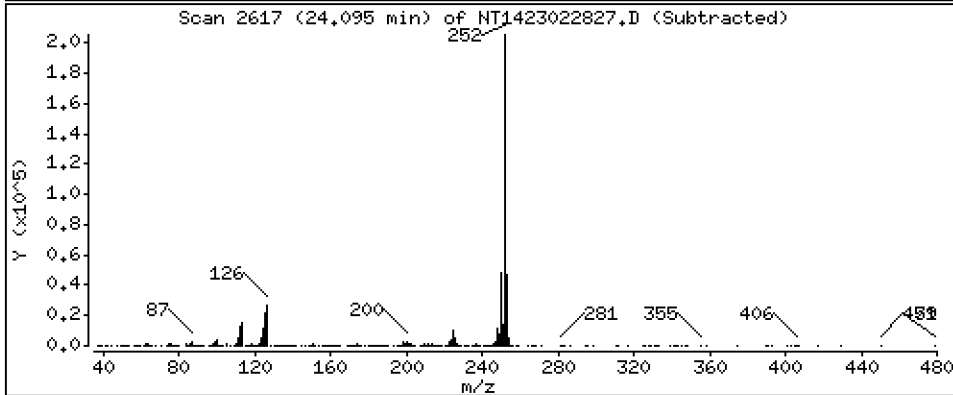
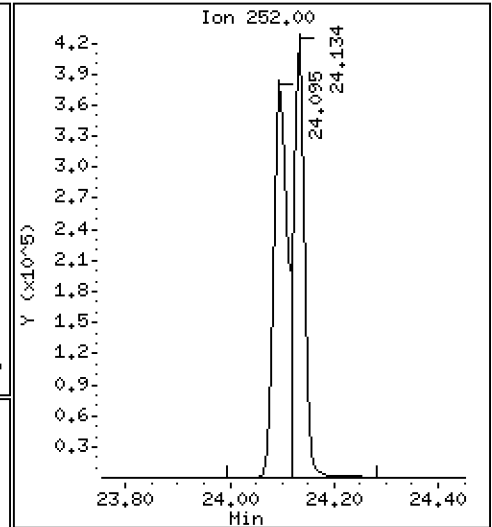
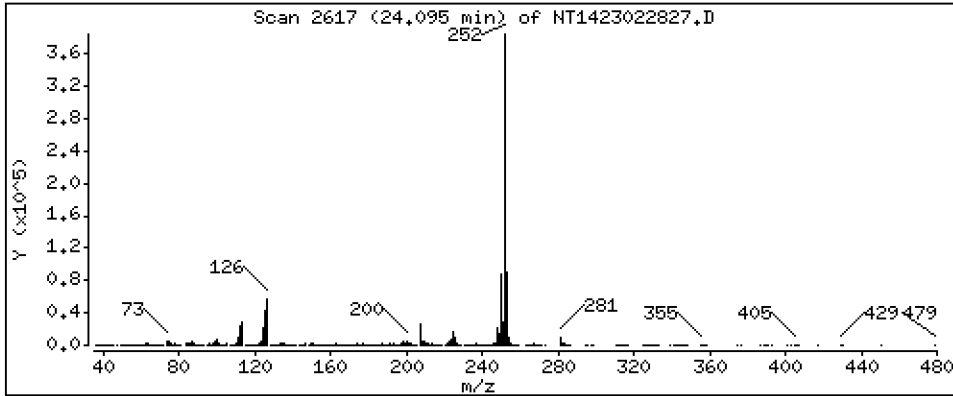
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 5,218 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

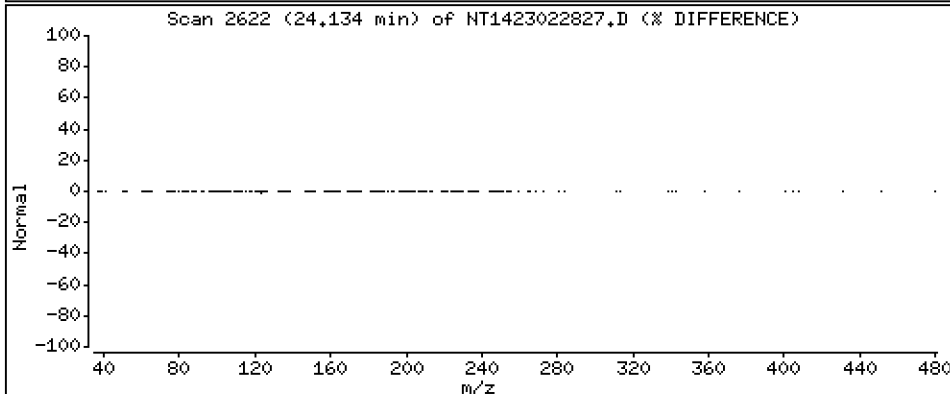
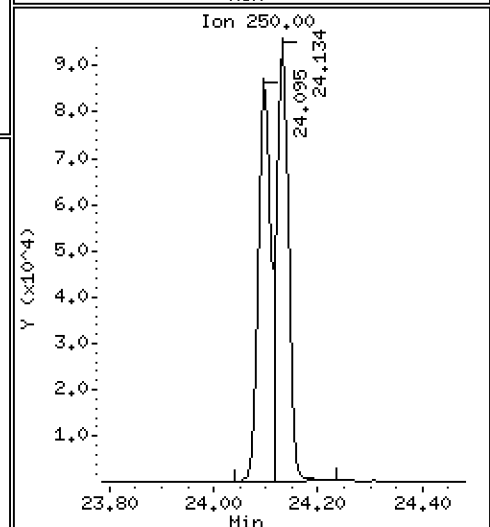
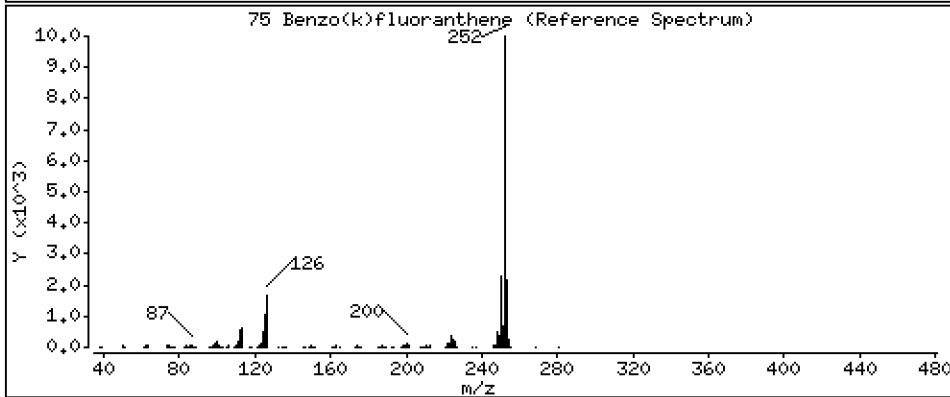
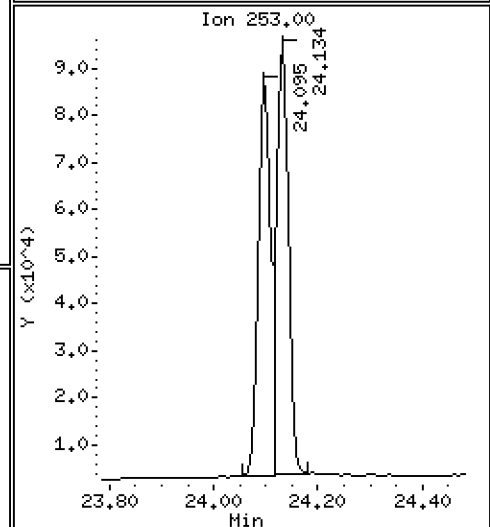
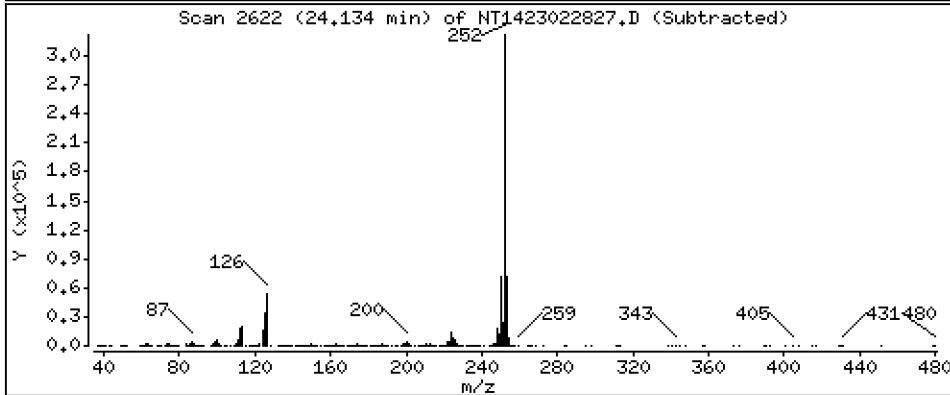
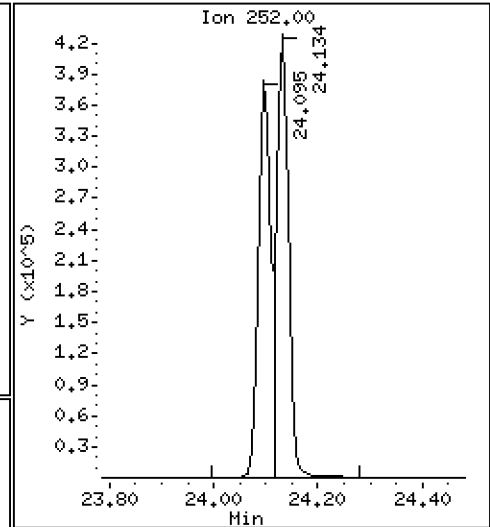
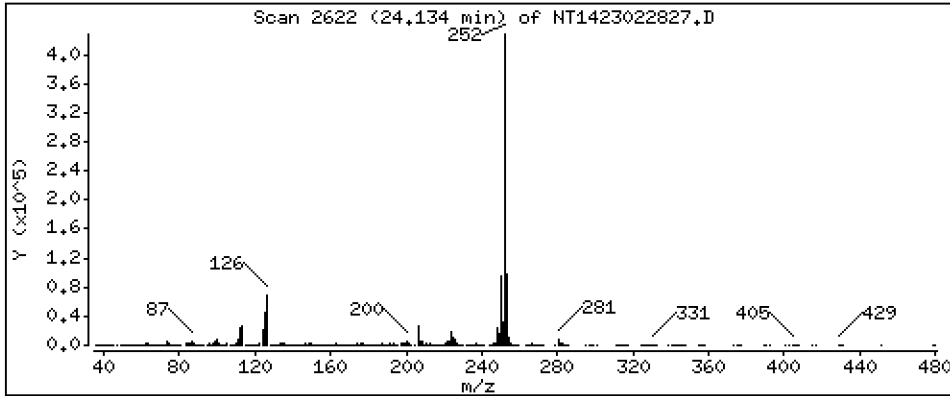
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 4,387 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

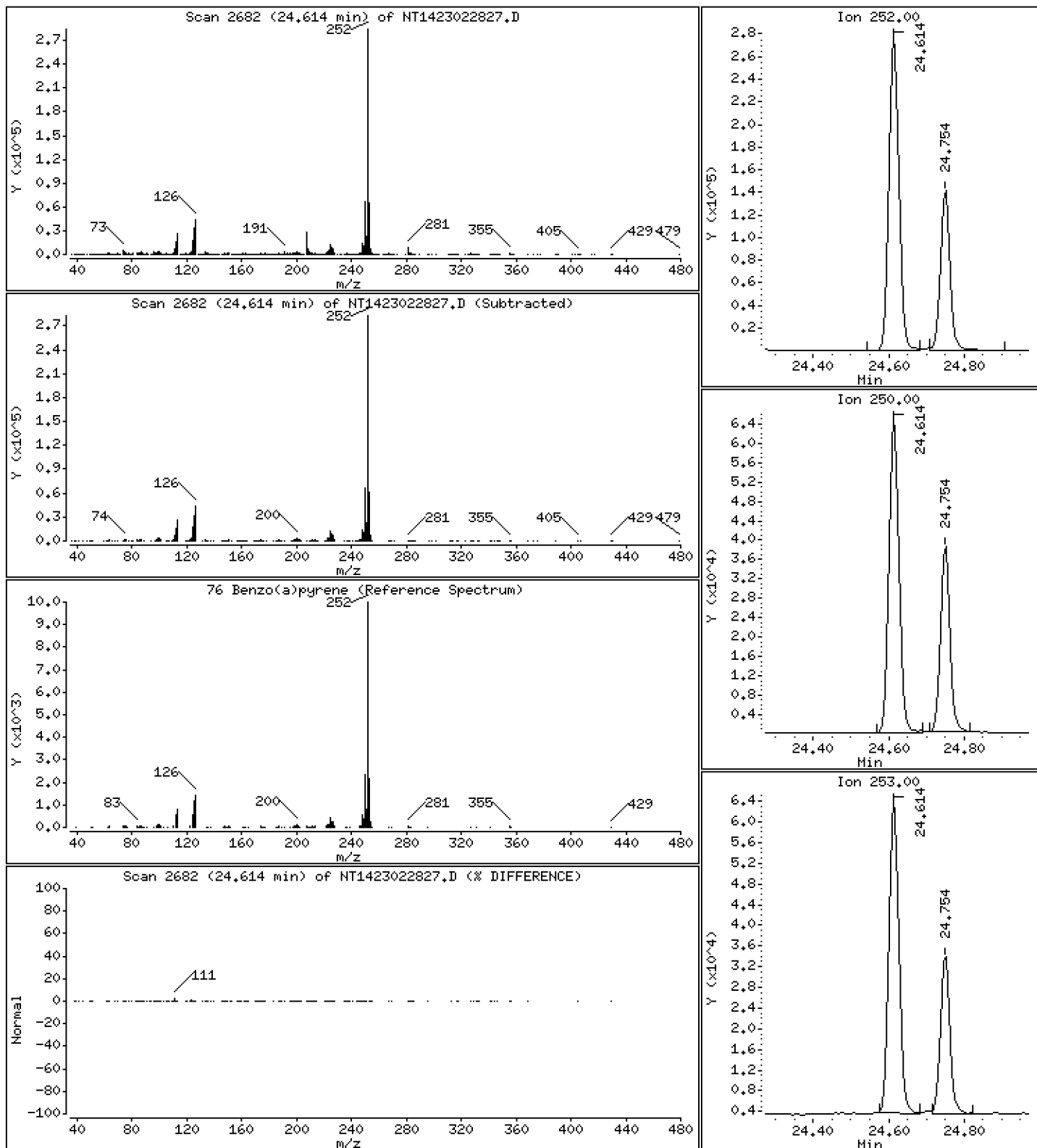
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 4,254 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

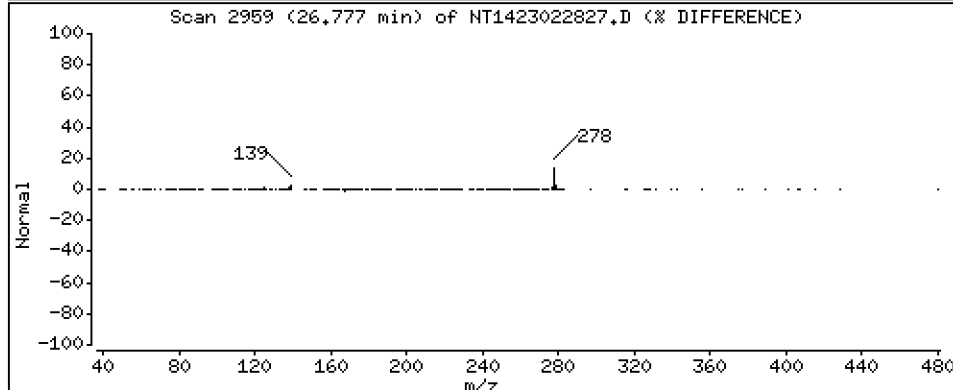
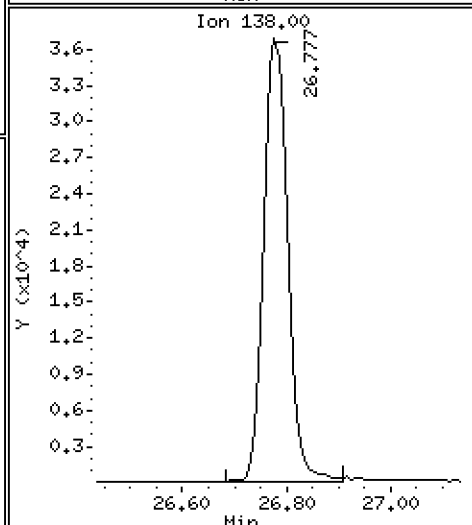
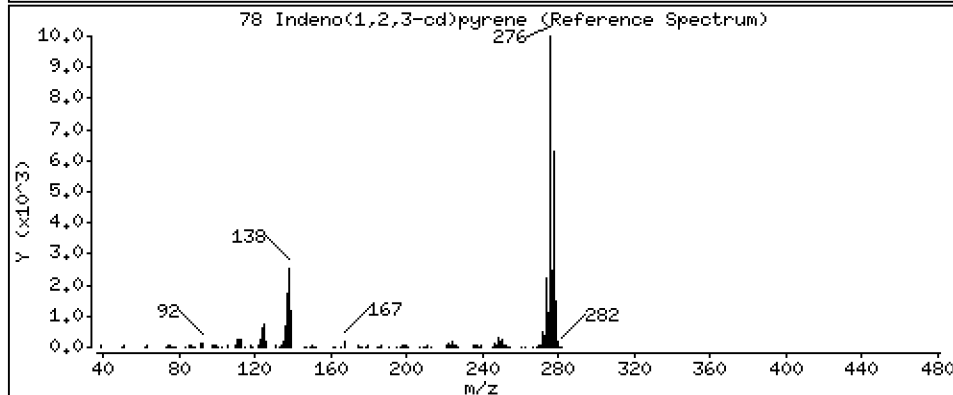
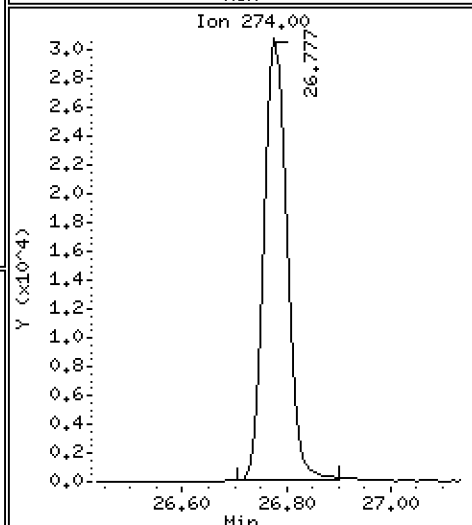
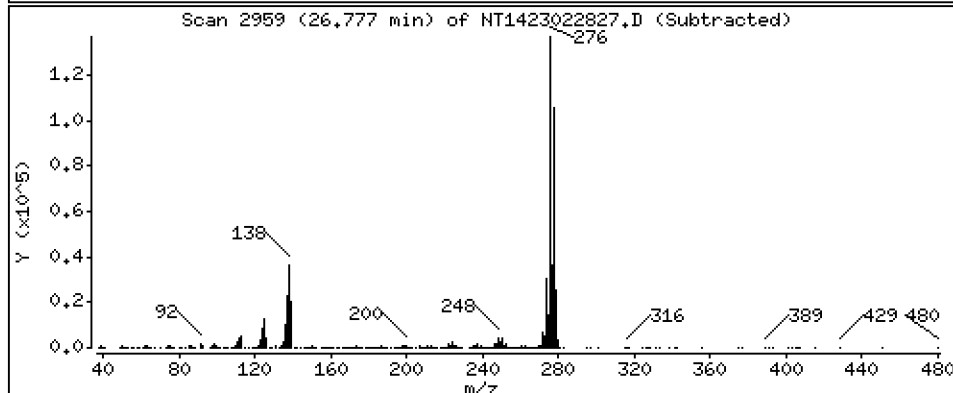
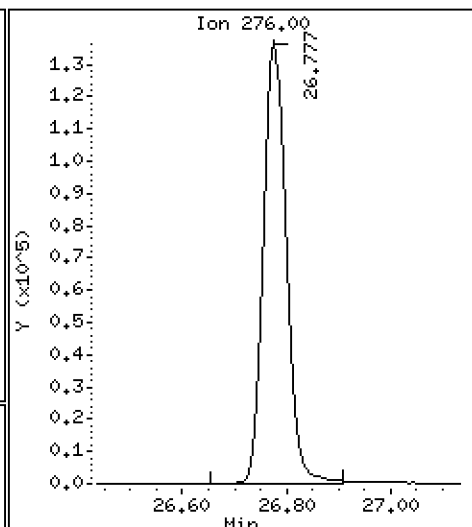
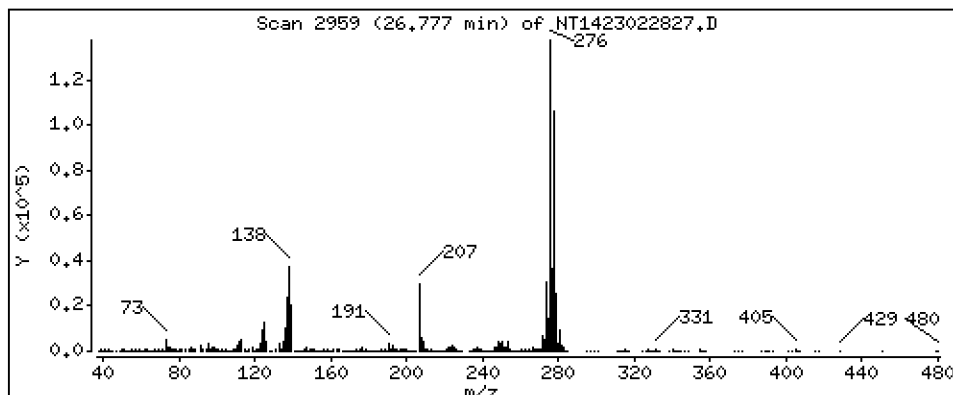
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 2,814 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

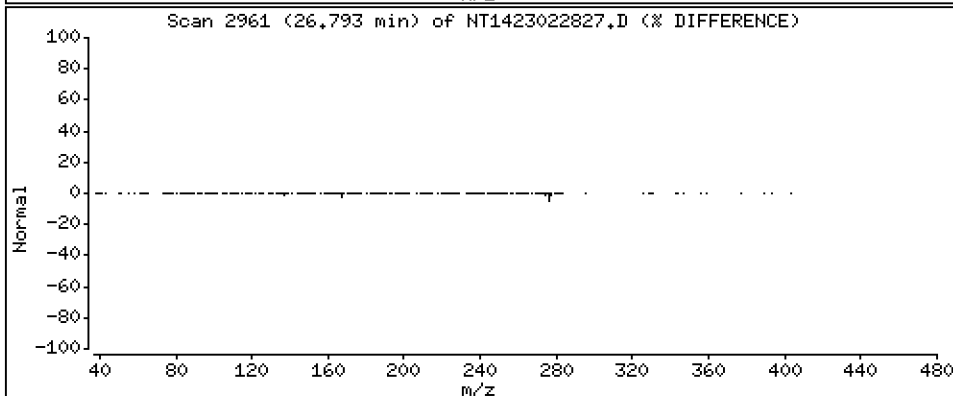
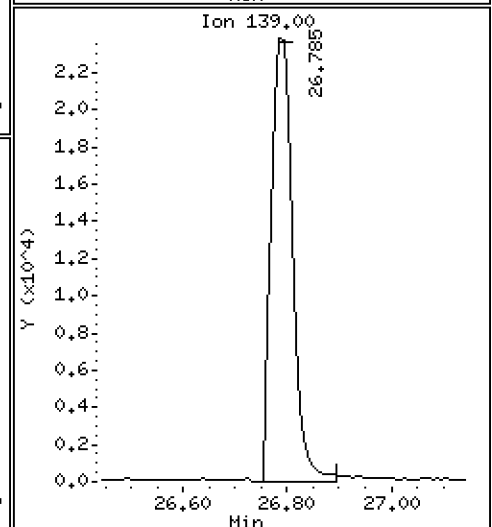
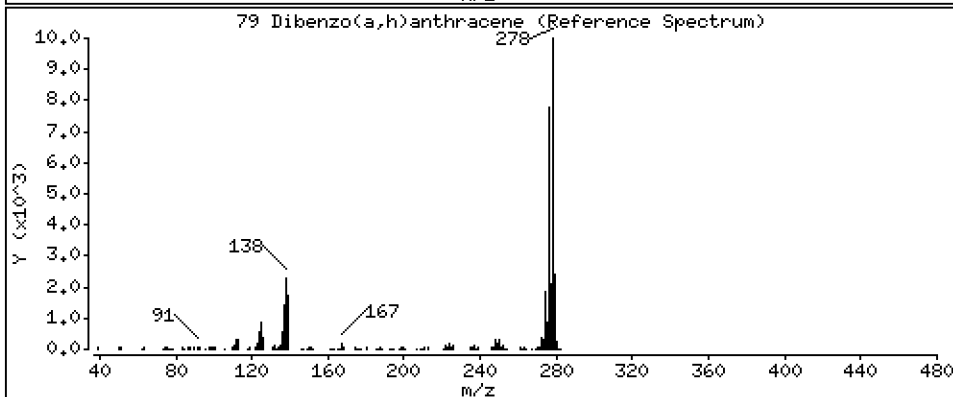
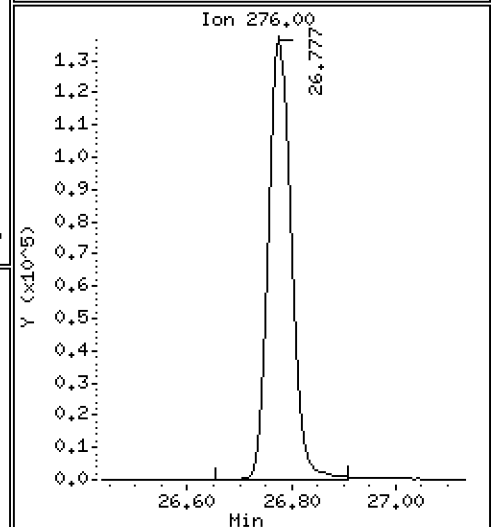
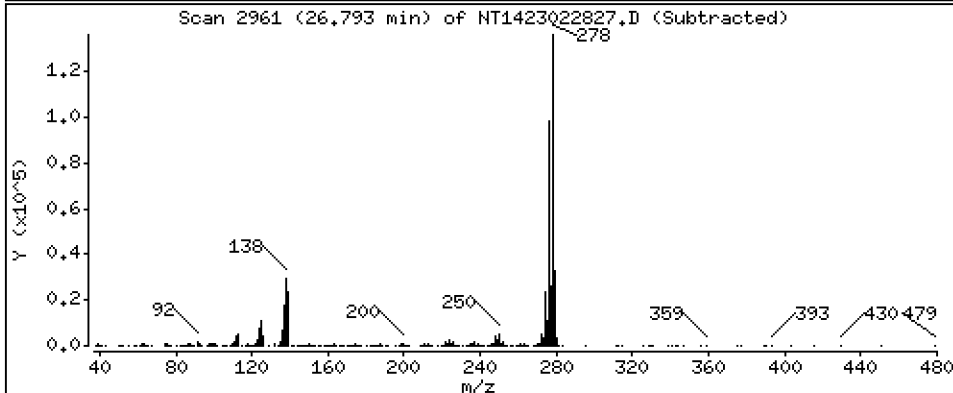
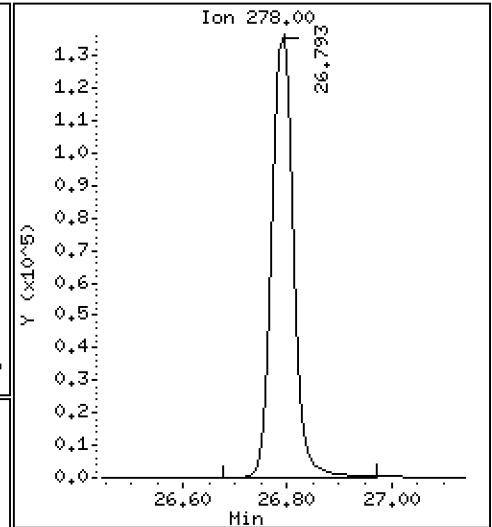
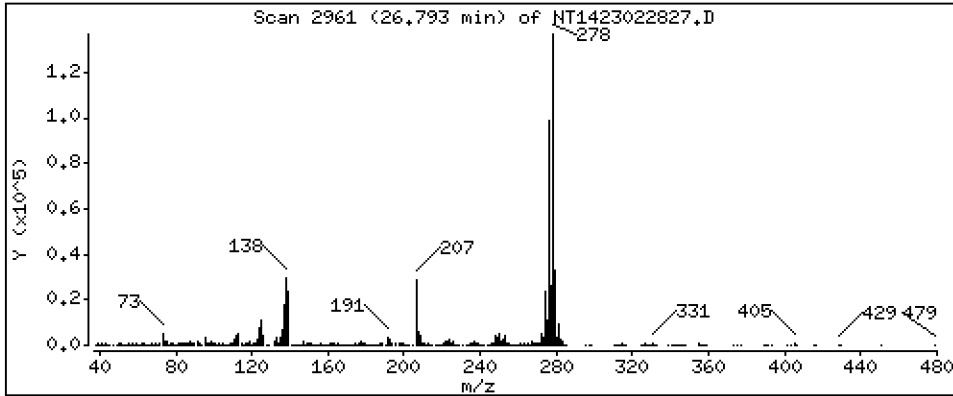
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 3,099 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

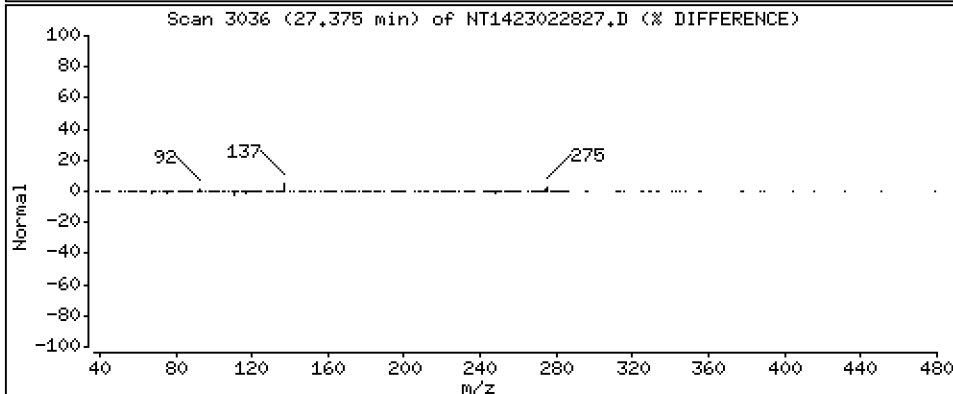
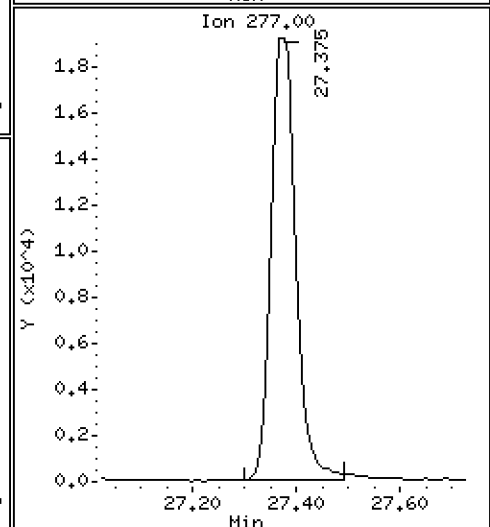
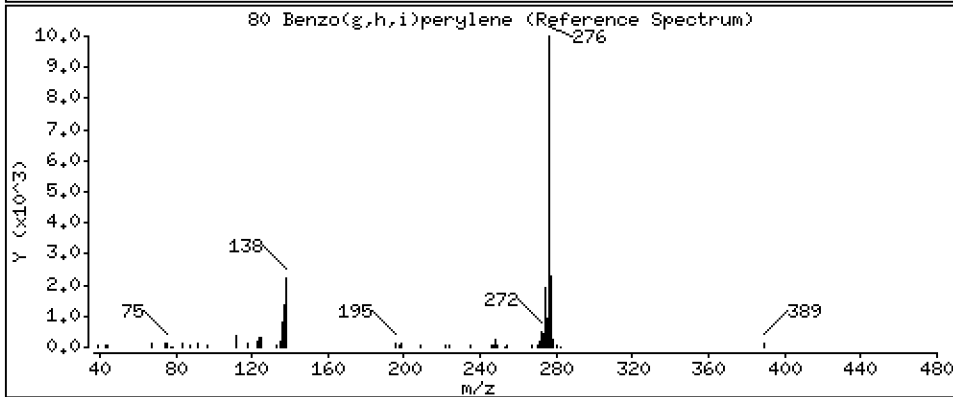
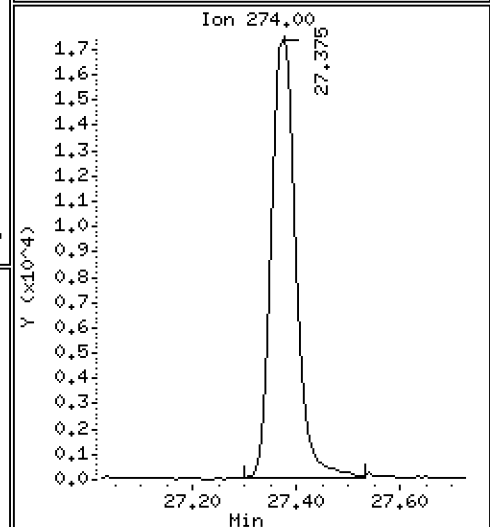
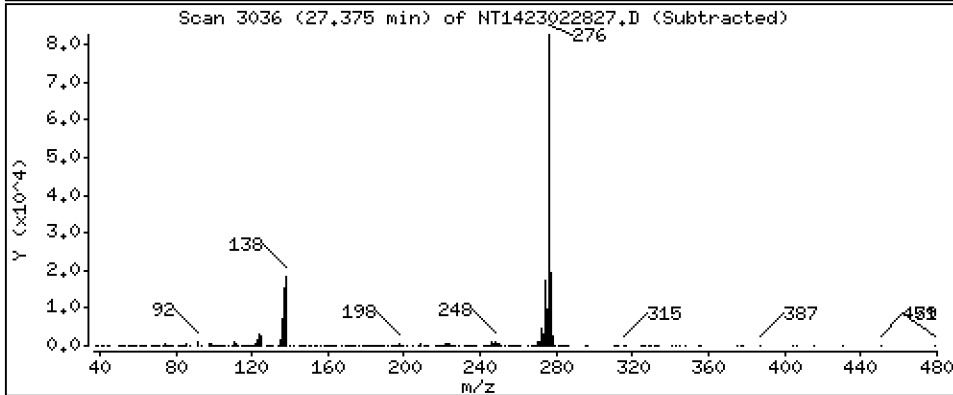
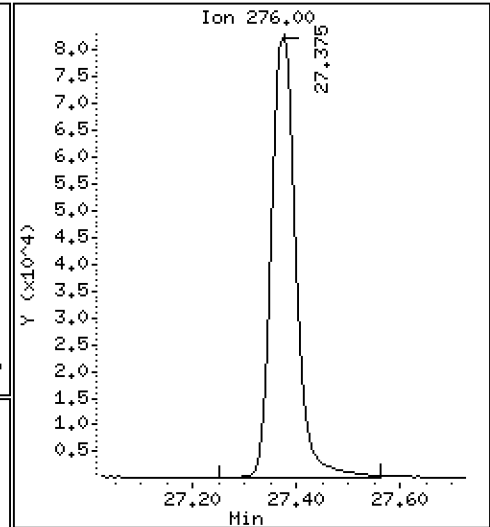
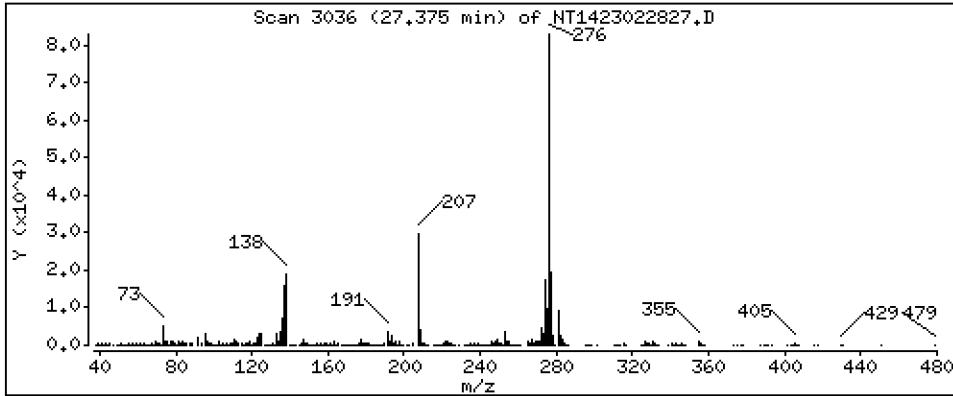
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 2,078 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

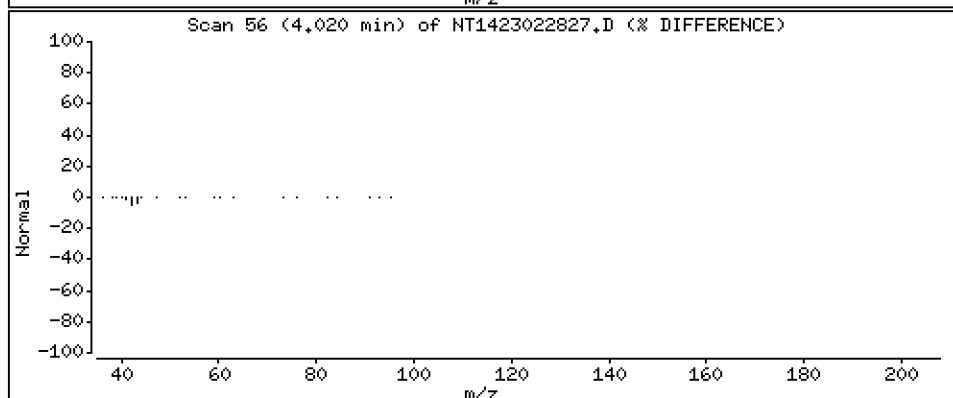
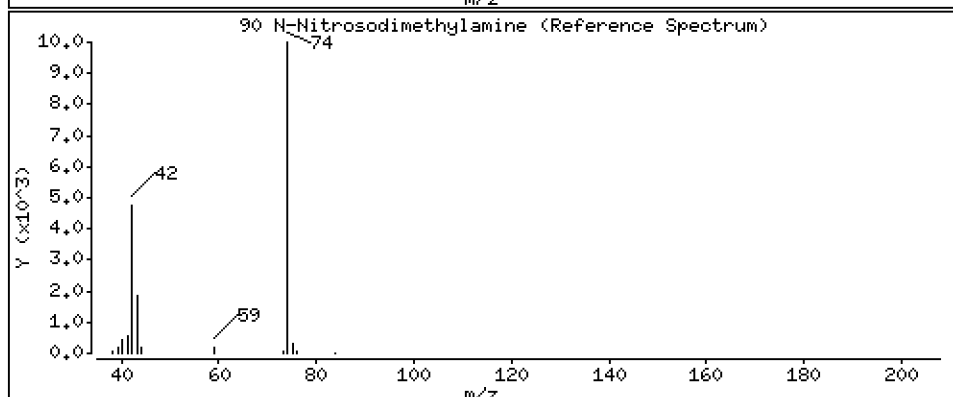
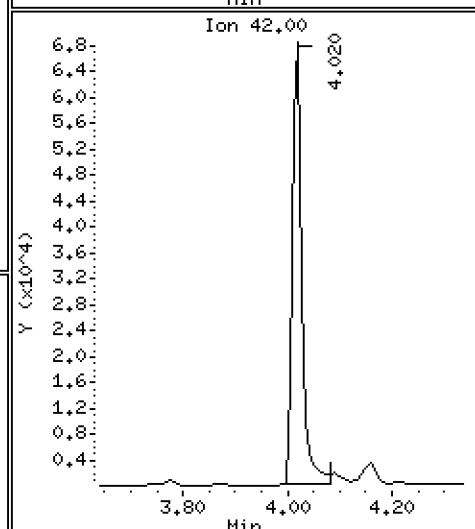
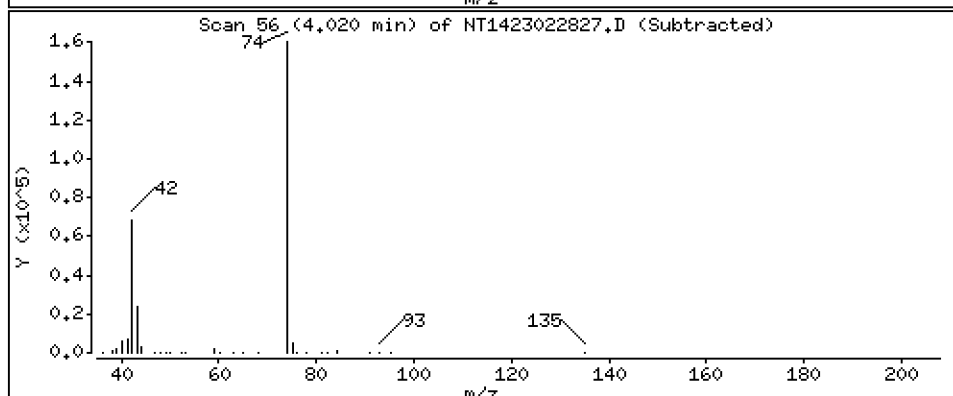
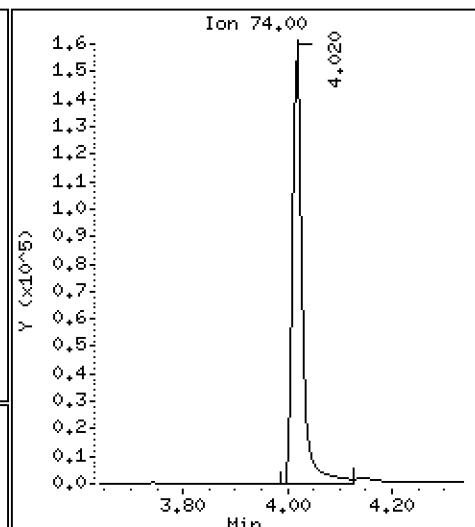
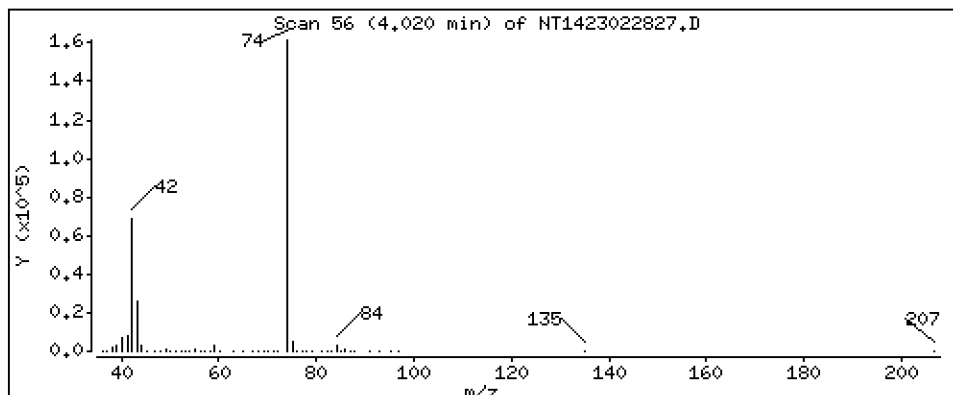
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

90 N-Nitrosodimethylamine

Concentration: 10,08 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

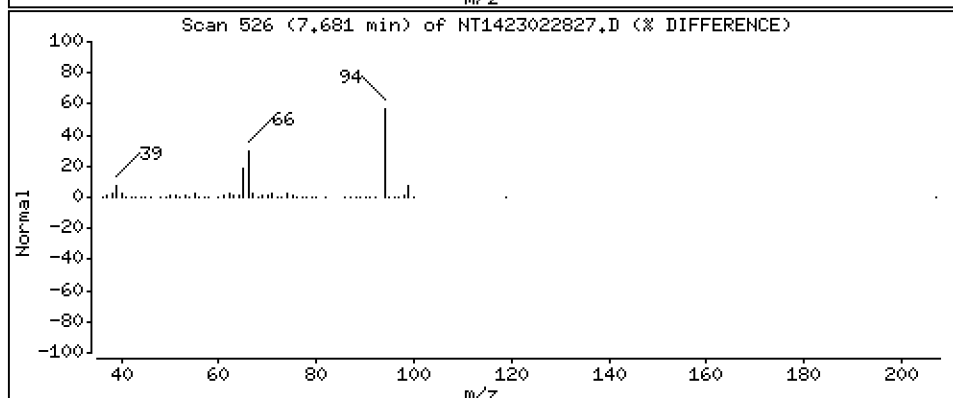
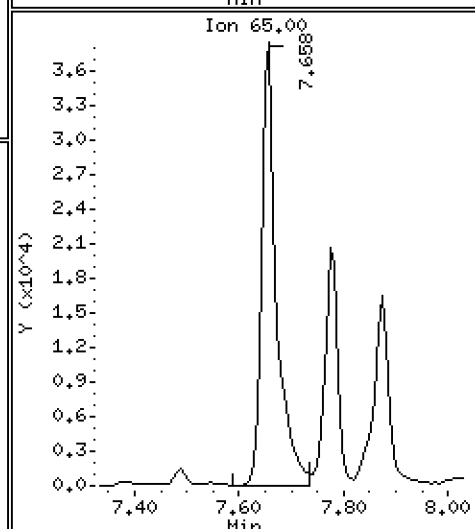
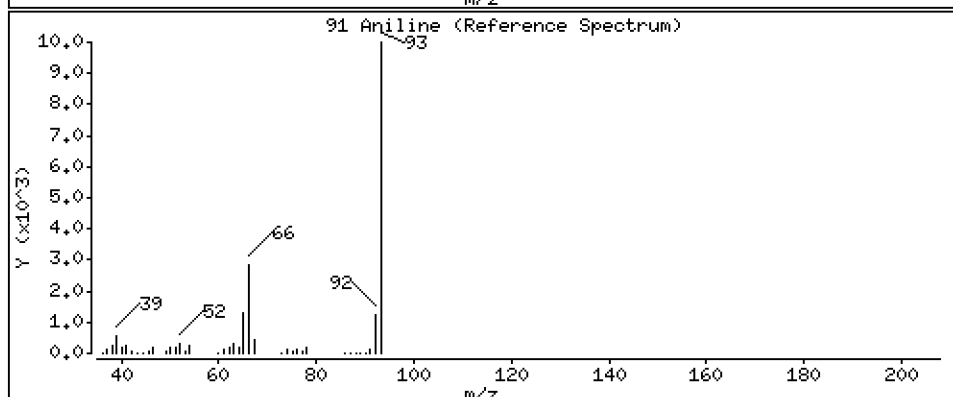
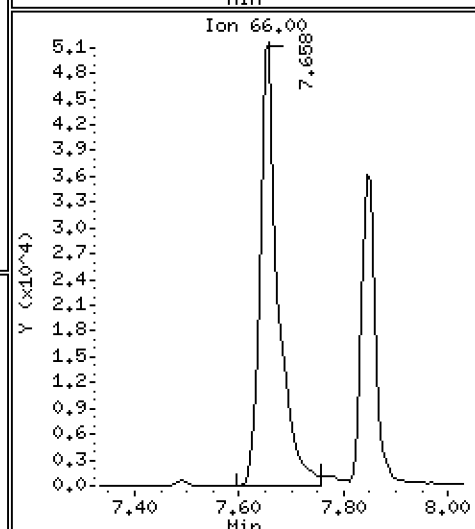
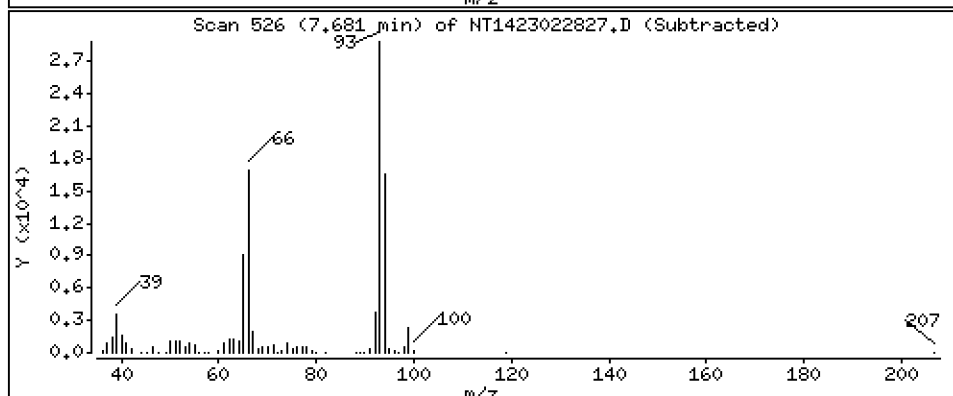
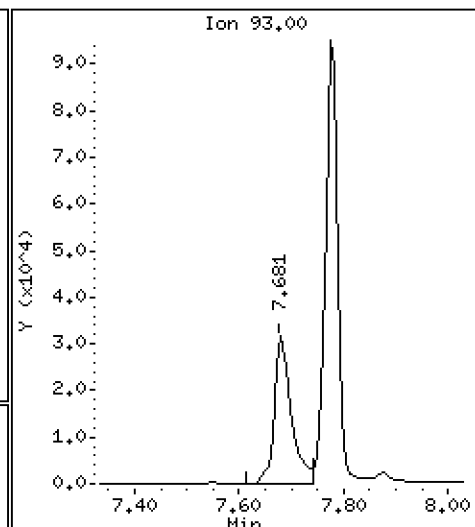
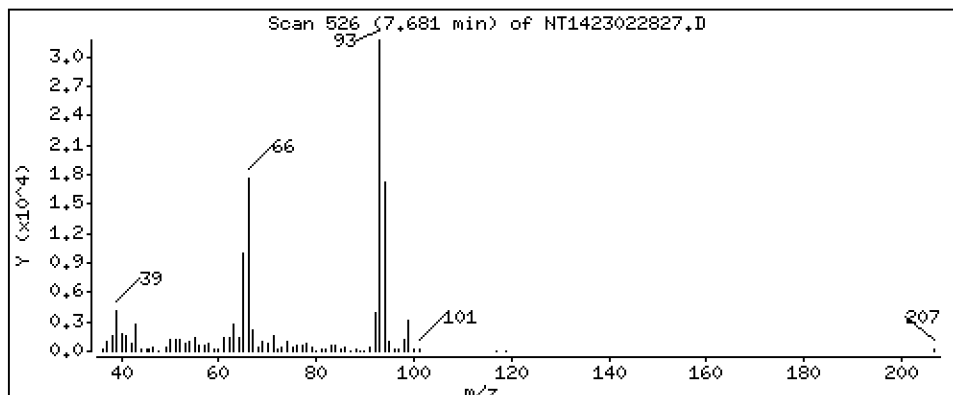
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

91 Aniline

Concentration: 1,276 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

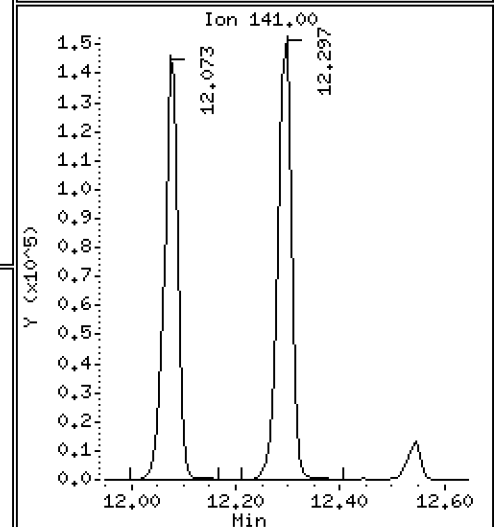
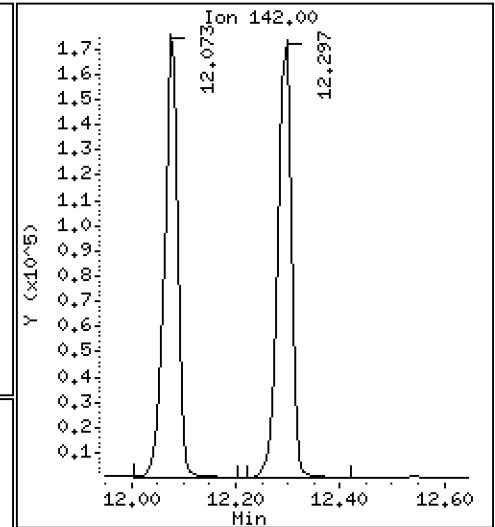
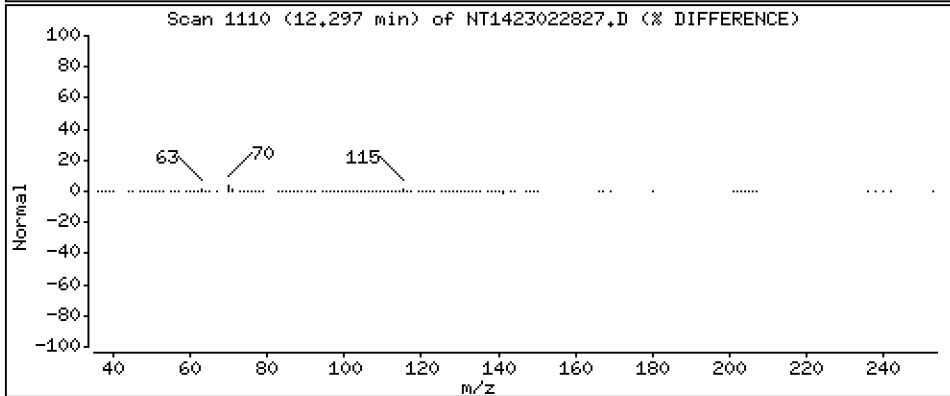
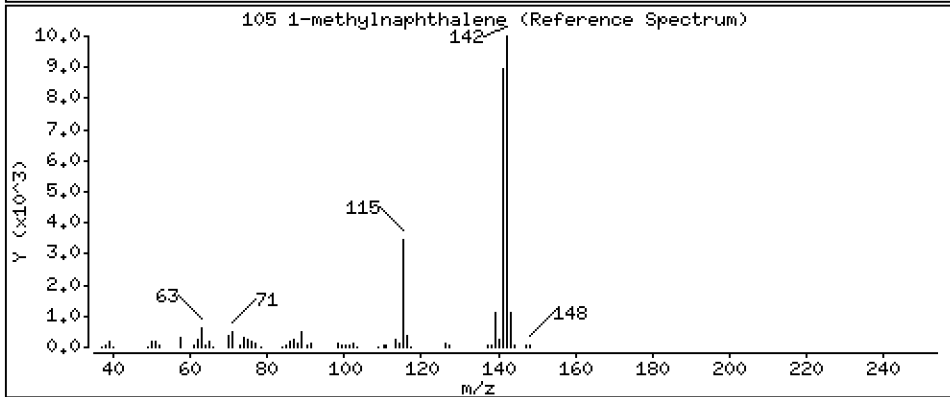
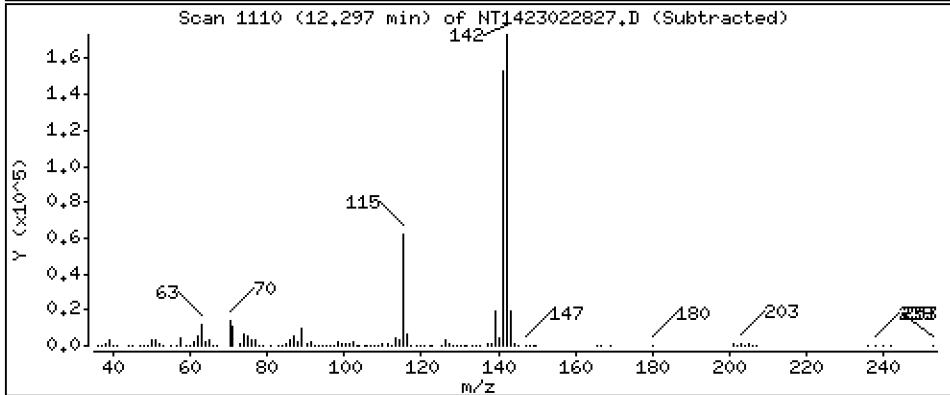
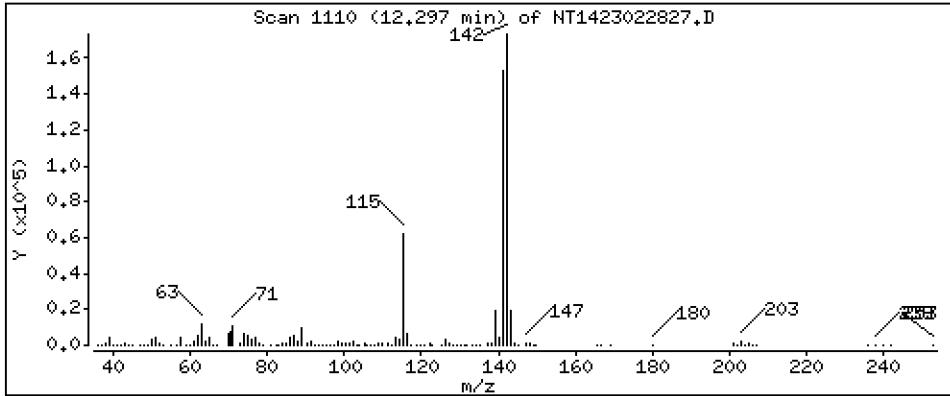
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 3,992 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

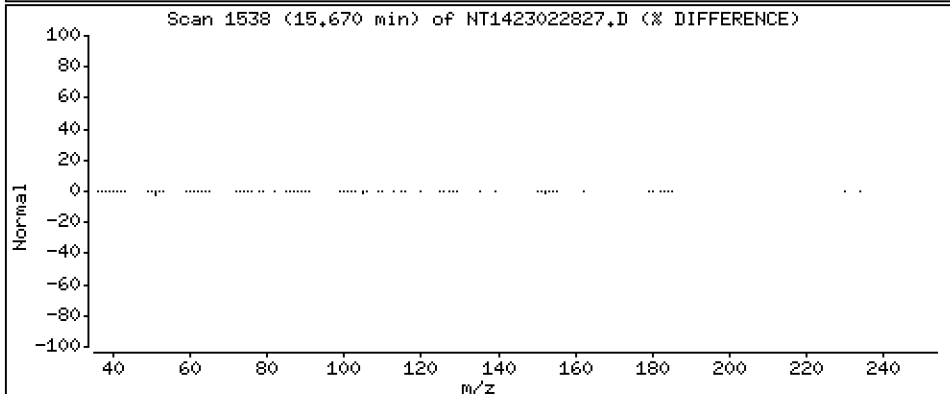
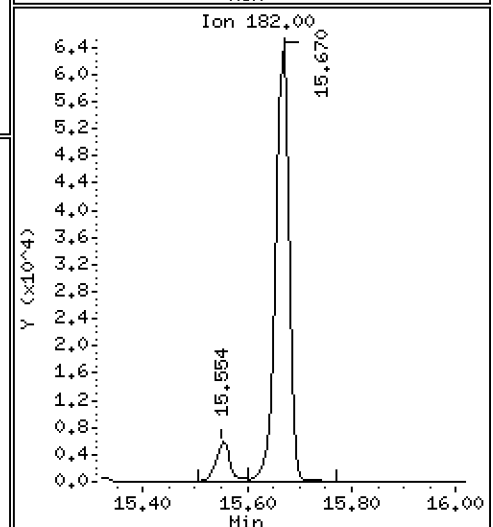
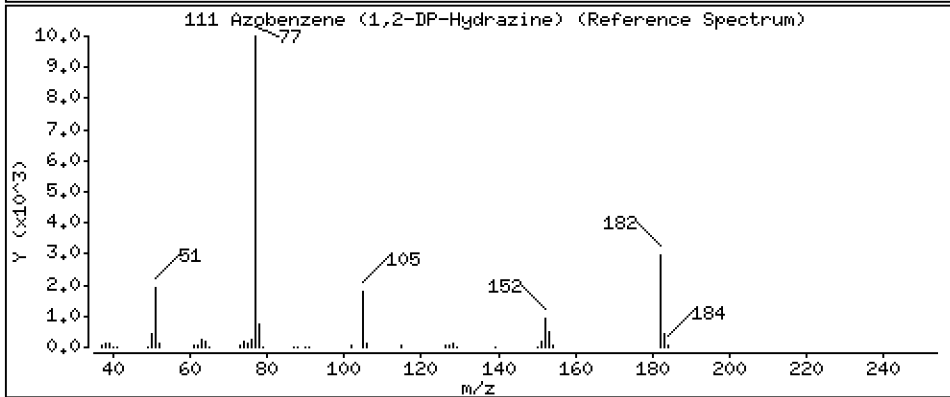
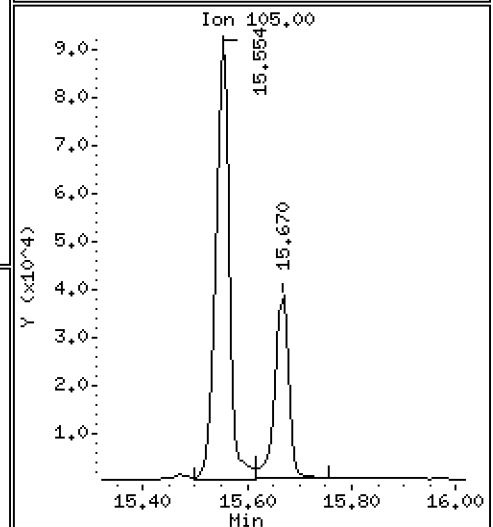
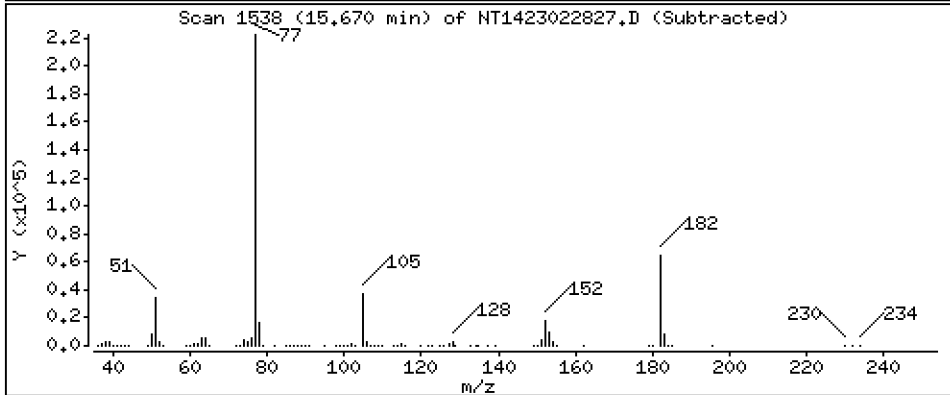
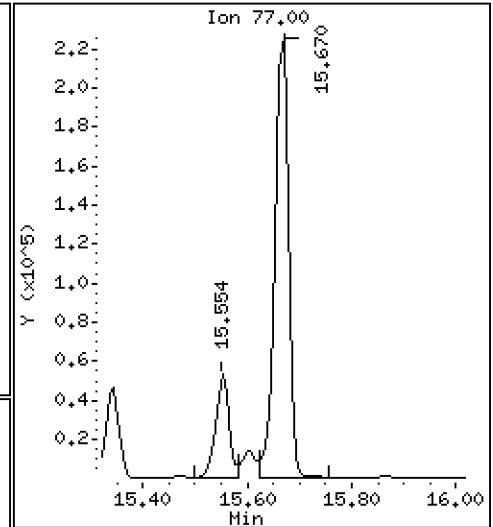
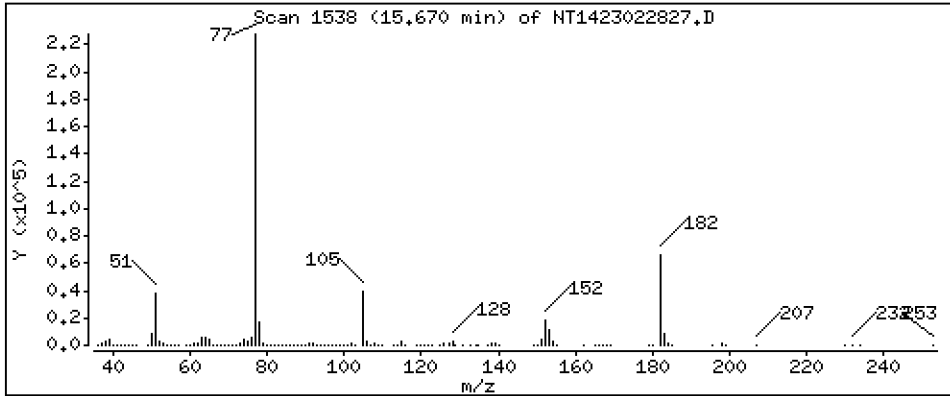
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 4,679 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

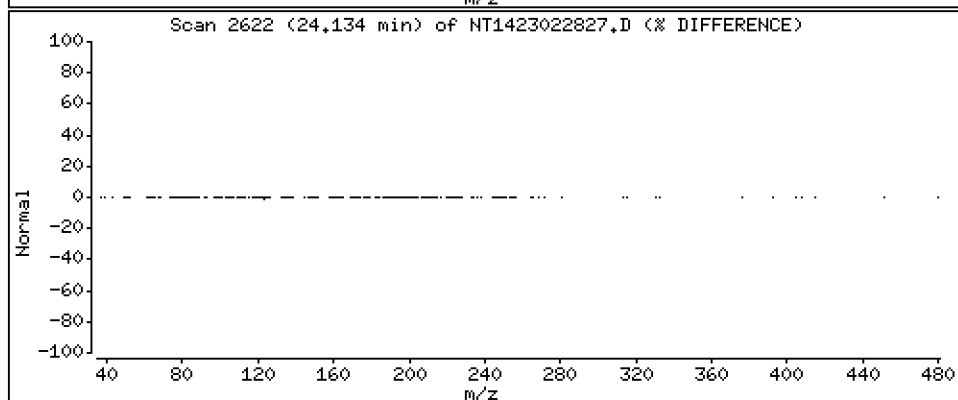
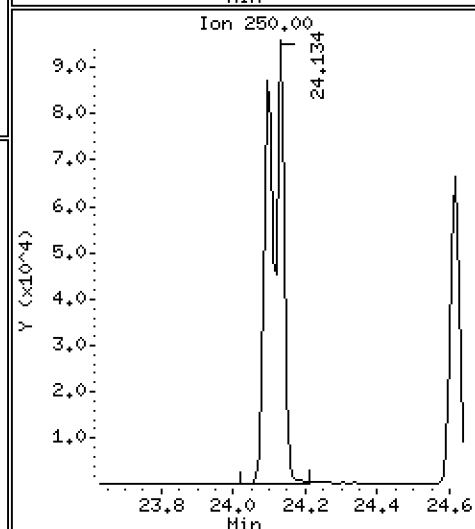
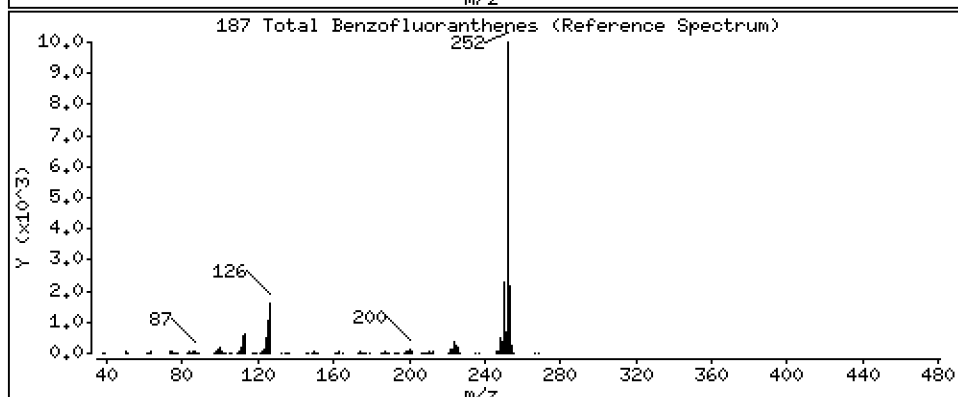
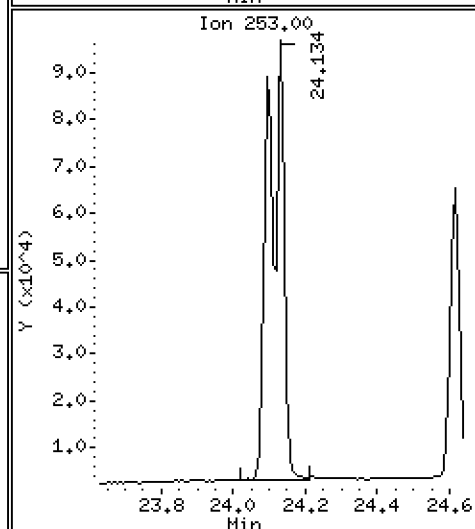
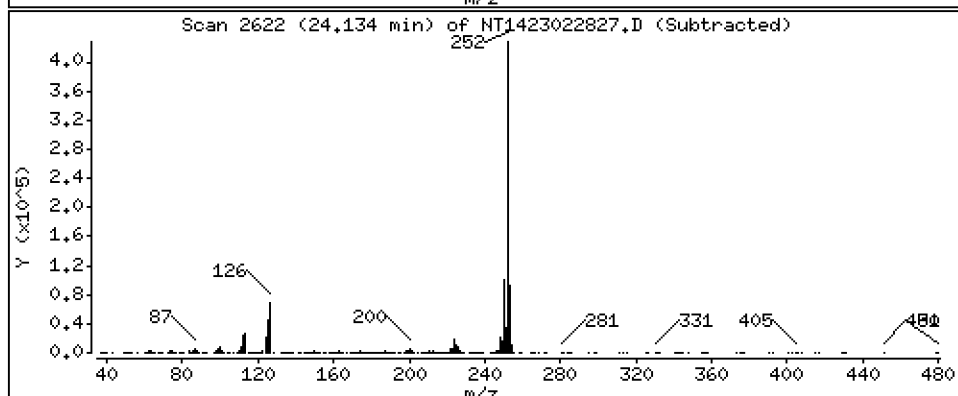
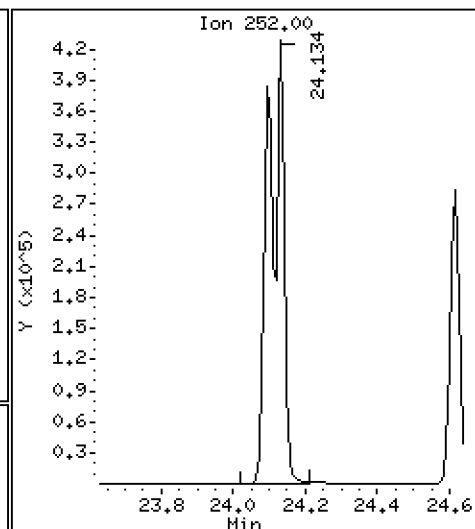
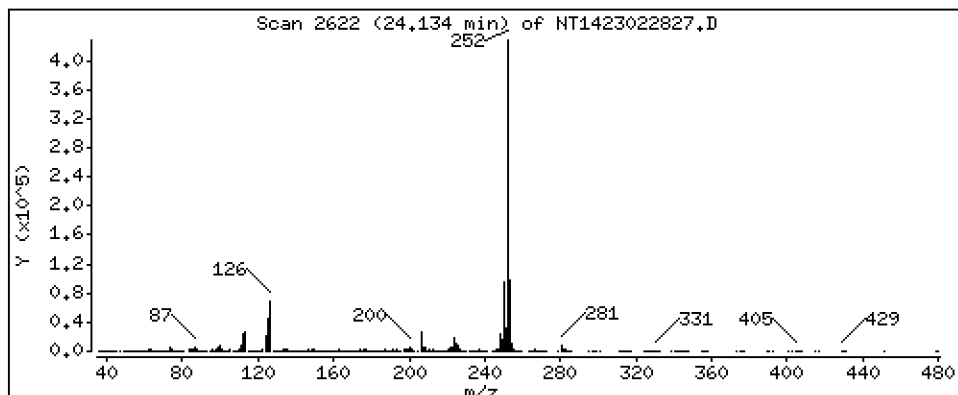
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 9,483 ug/mL



Date : 01-MAR-2023 17:16

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BS1

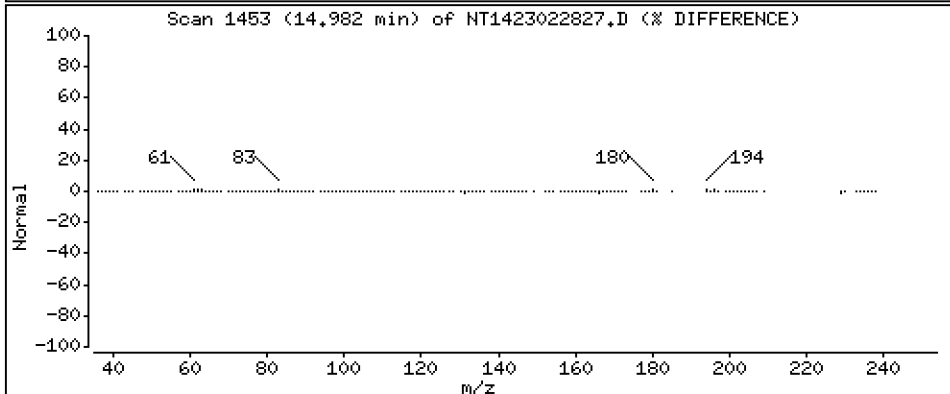
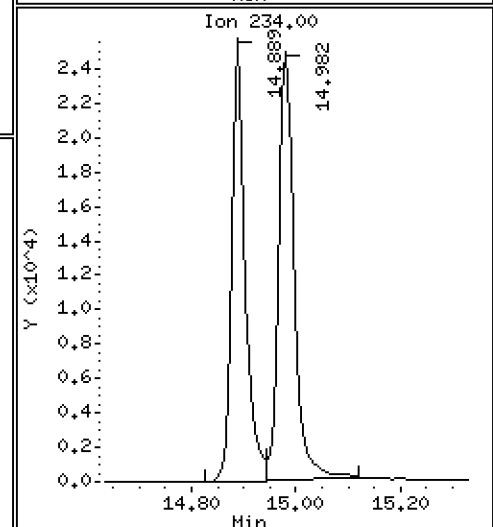
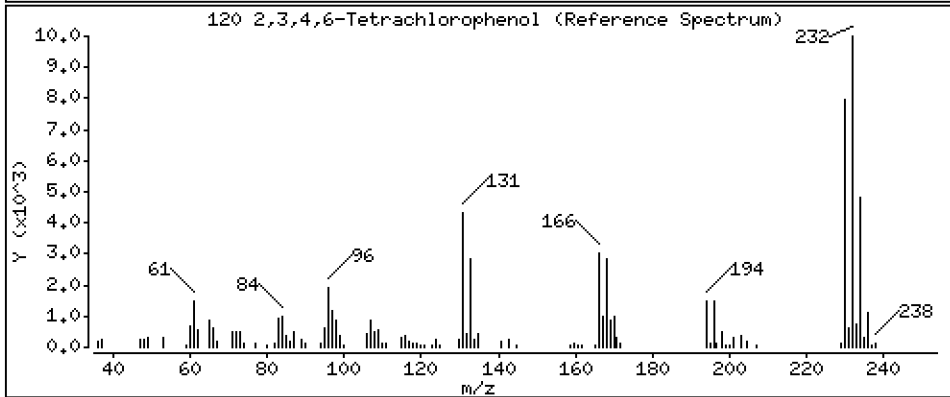
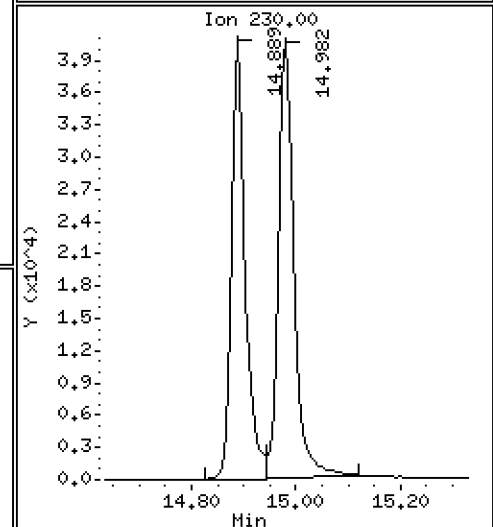
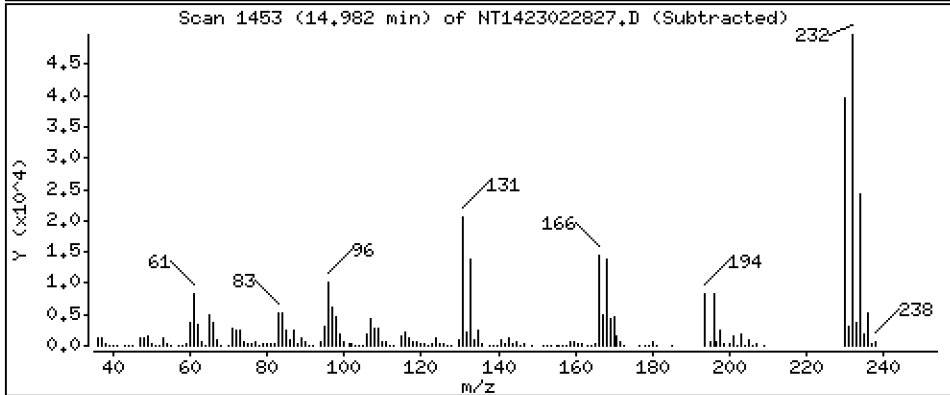
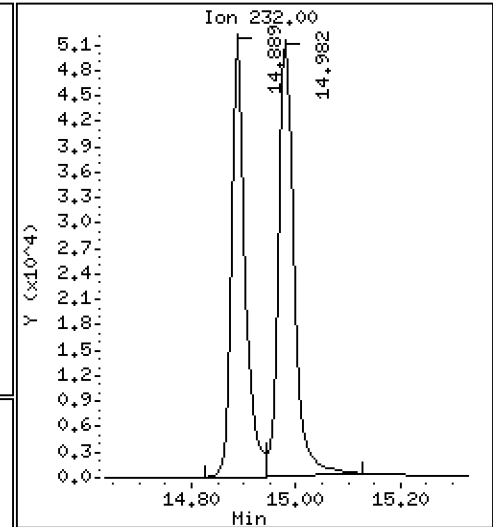
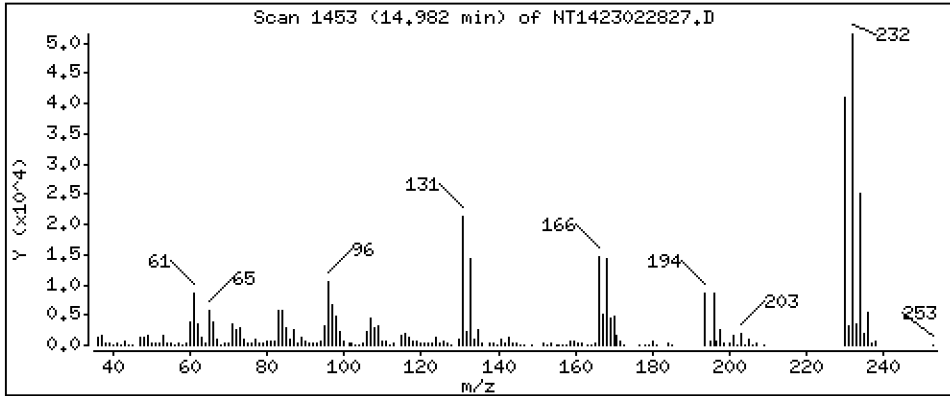
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

120 2,3,4,6-Tetrachlorophenol

Concentration: 3,938 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

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

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

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

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

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

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

Test Mode:
 Use Last Continuing Calibrator.

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

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

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

REVIEW SUMMARY FOR FILE - NT1423022827.D

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

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

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

NONE

RRT check based on Ccal File: NT1423022821.D

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

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

Data File: \\target\share\chem3\nt14,1\20230228,16\NT1423022828.D

Date: 01-HRR-2023 17:52

Client ID:

Sample Info: BLR0557-BSM1

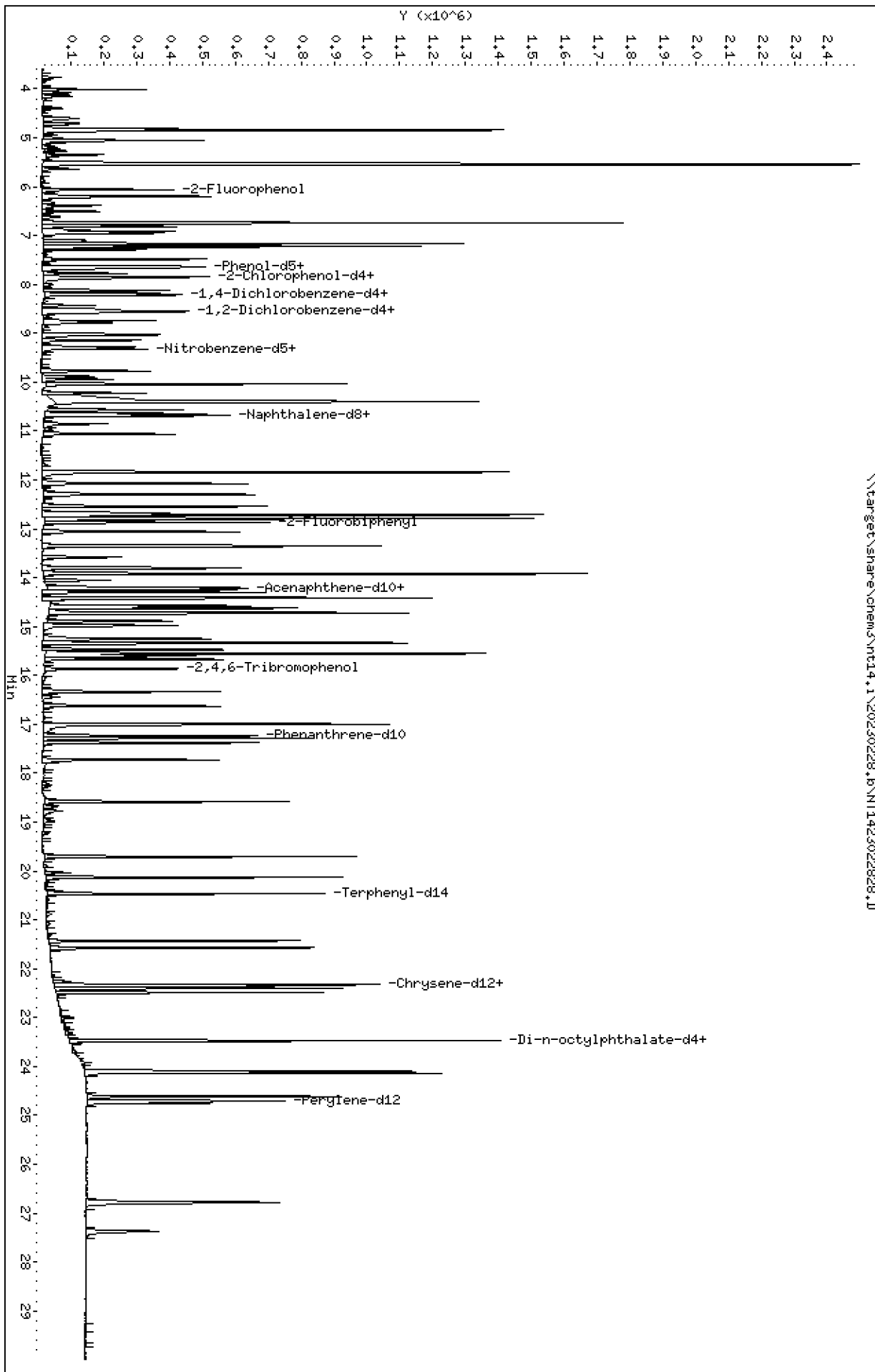
Column phase: ZB-5msi

Instrument: nt14,1

Operator: JGR

Column diameter: 0.25

\\target\share\chem3\nt14,1\20230228,16\NT1423022828.D



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

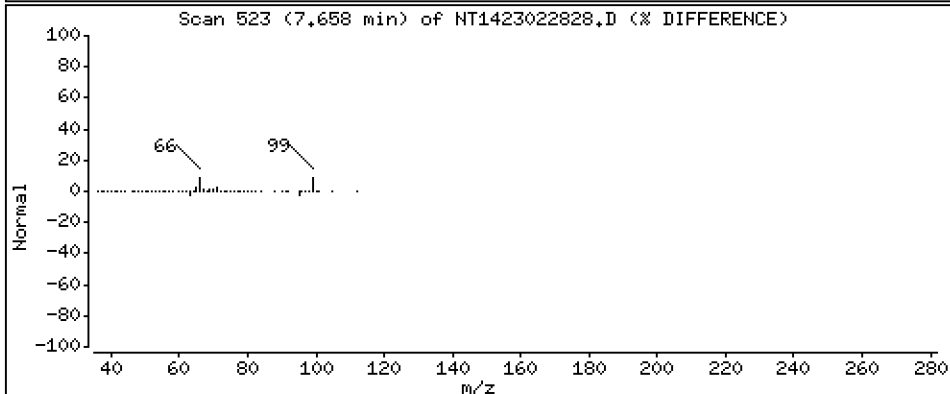
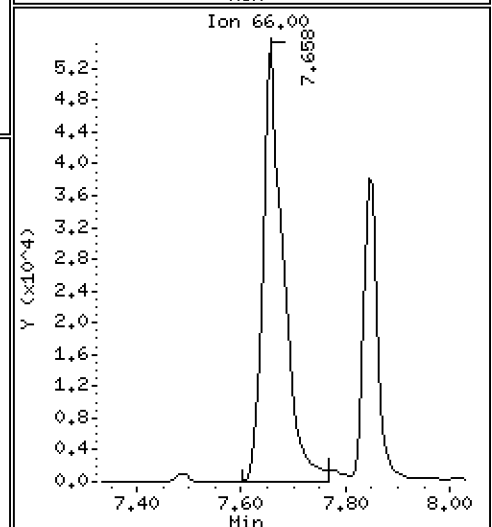
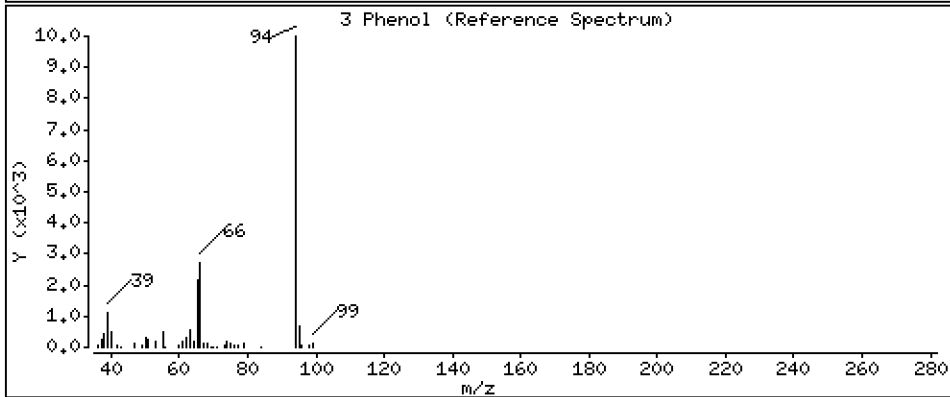
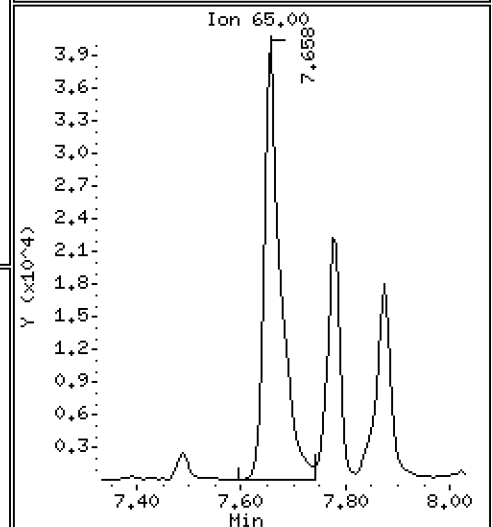
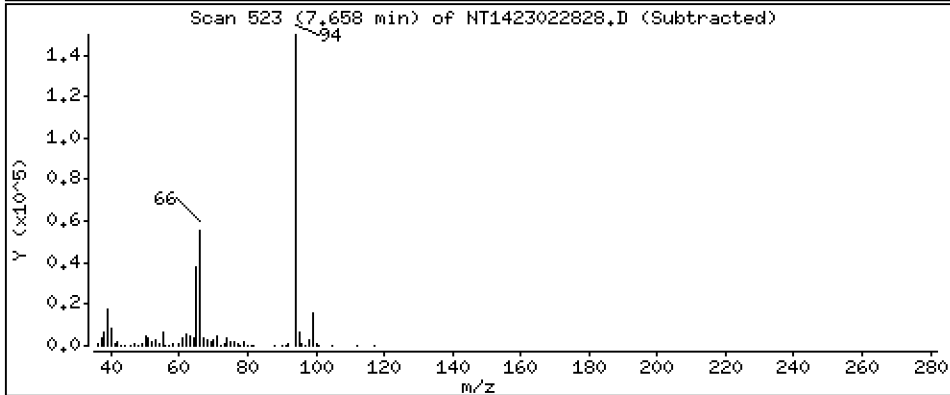
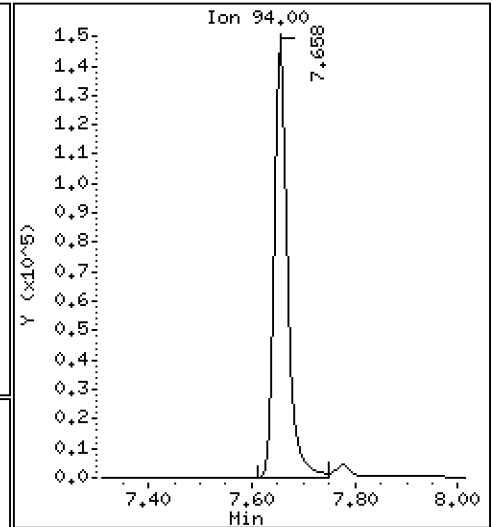
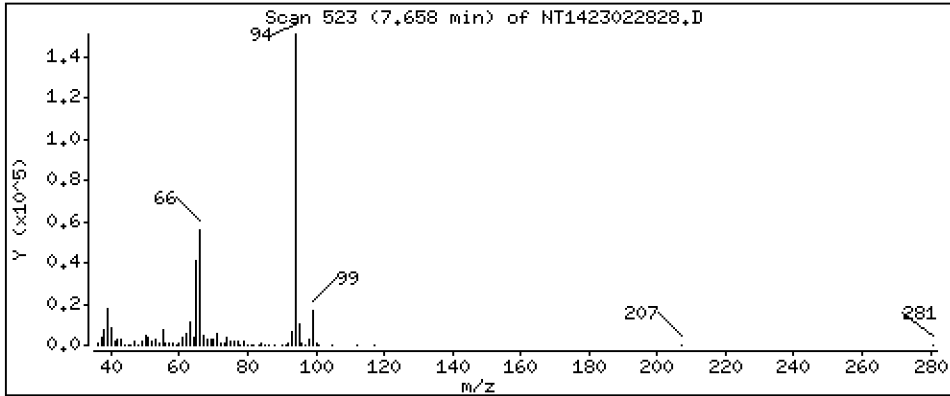
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 4,804 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

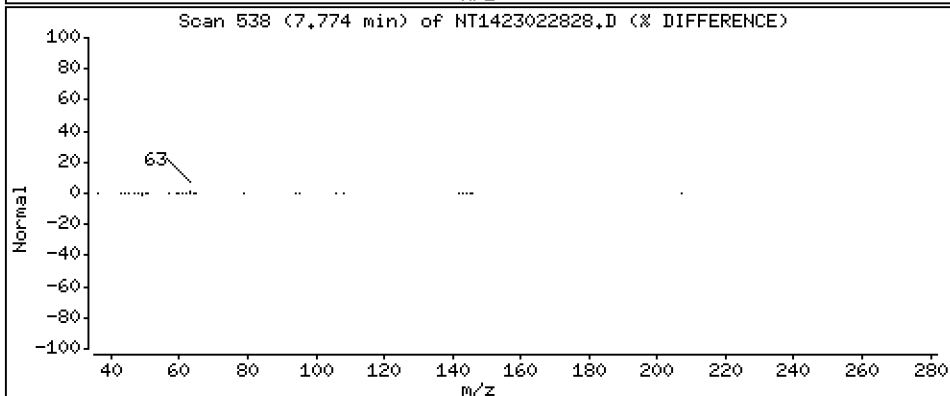
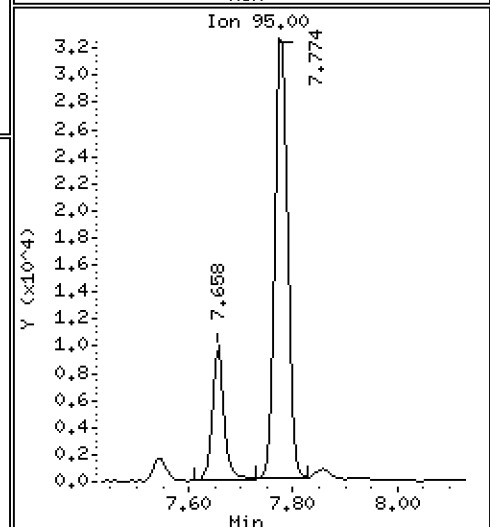
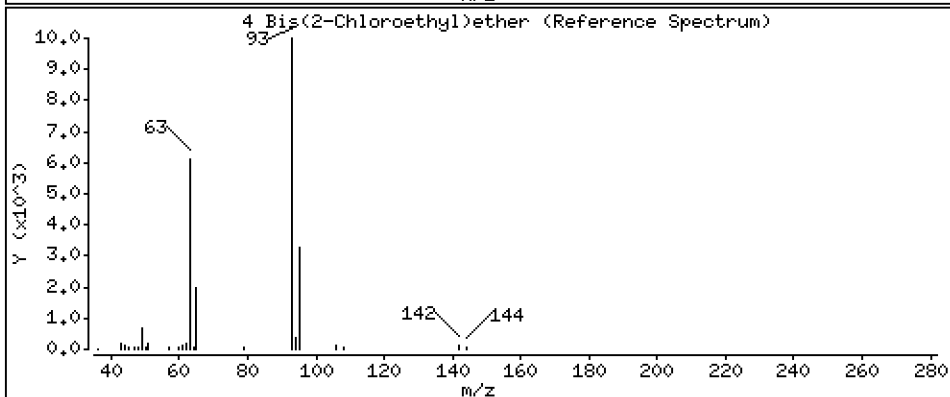
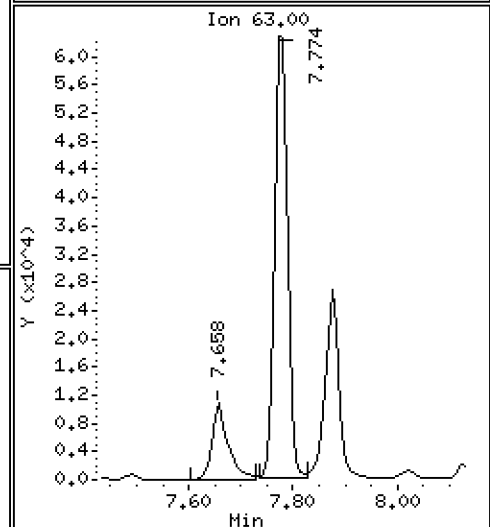
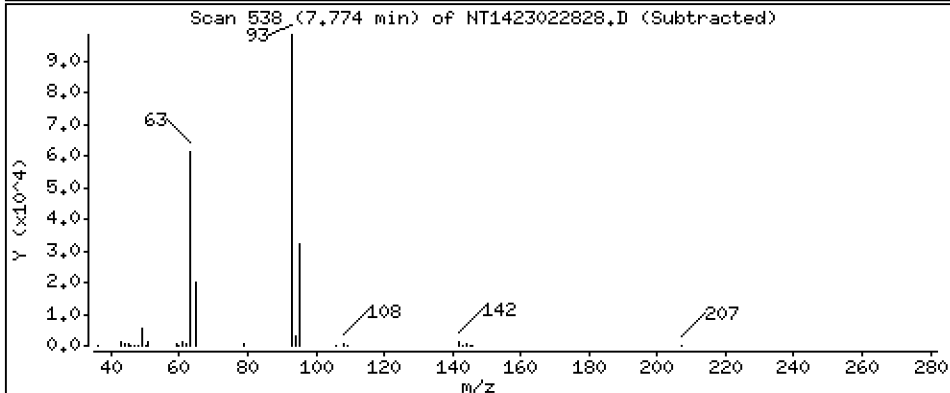
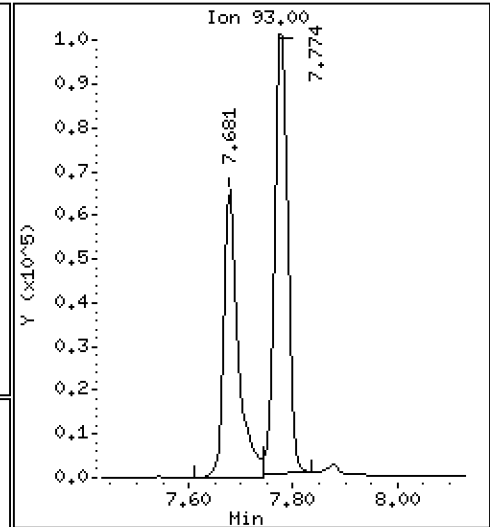
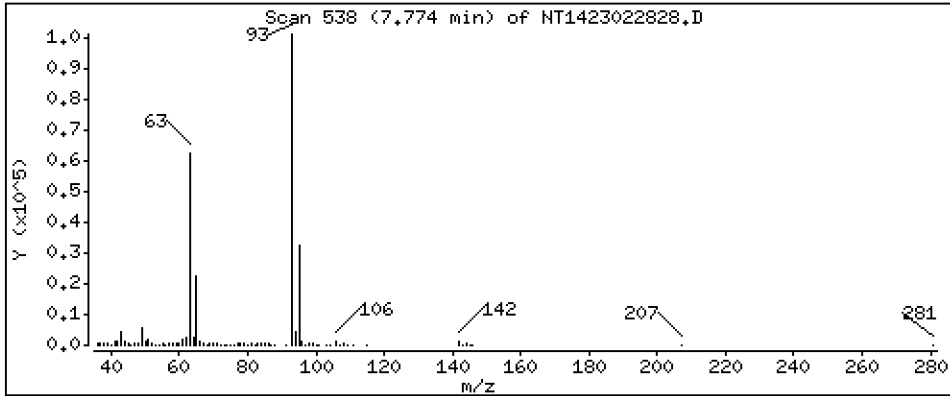
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

4 Bis(2-Chloroethyl)ether

Concentration: 4,746 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

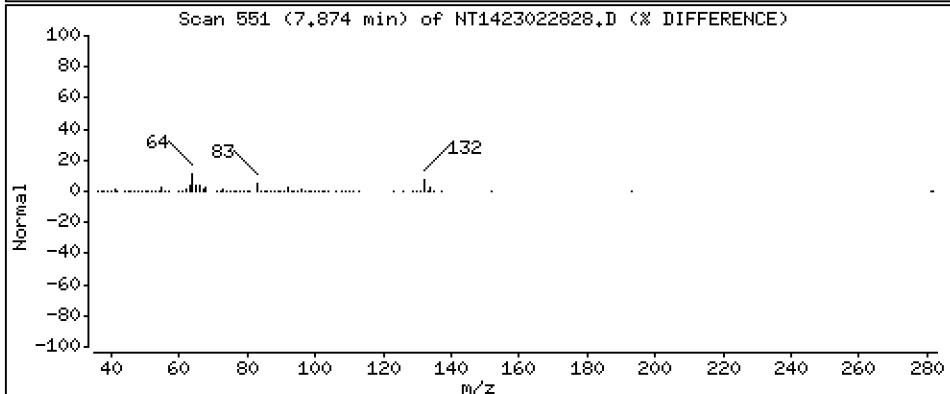
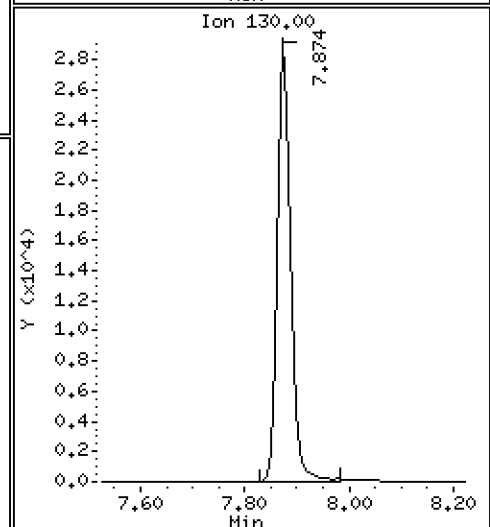
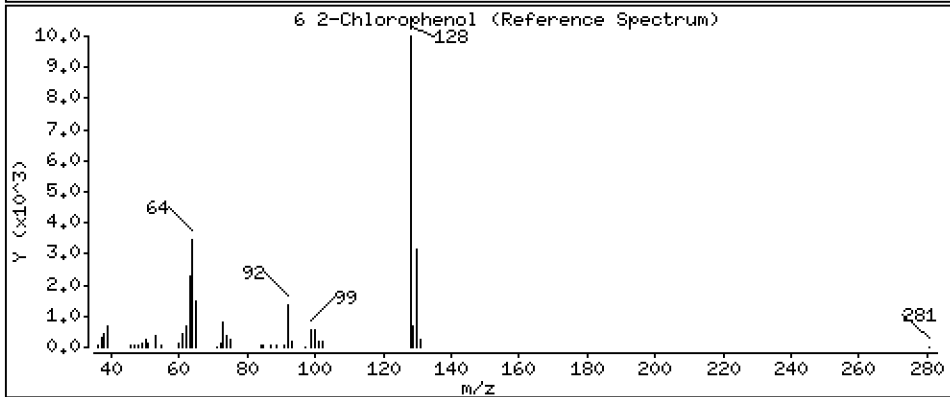
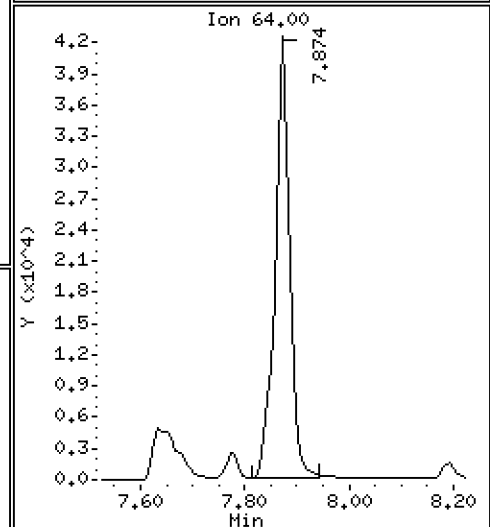
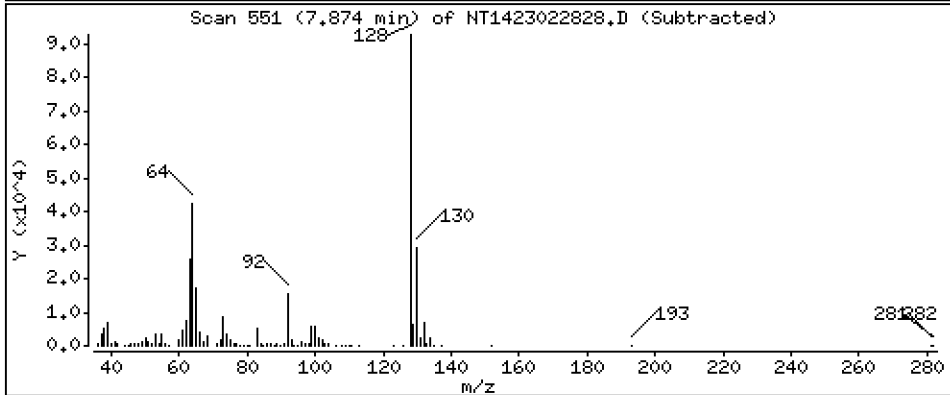
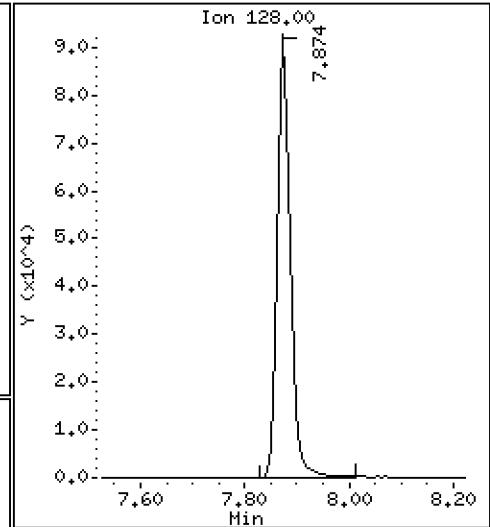
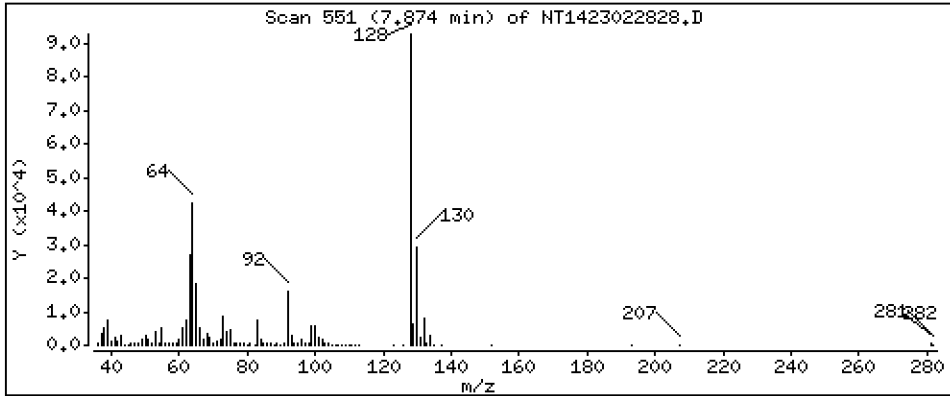
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 4,426 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

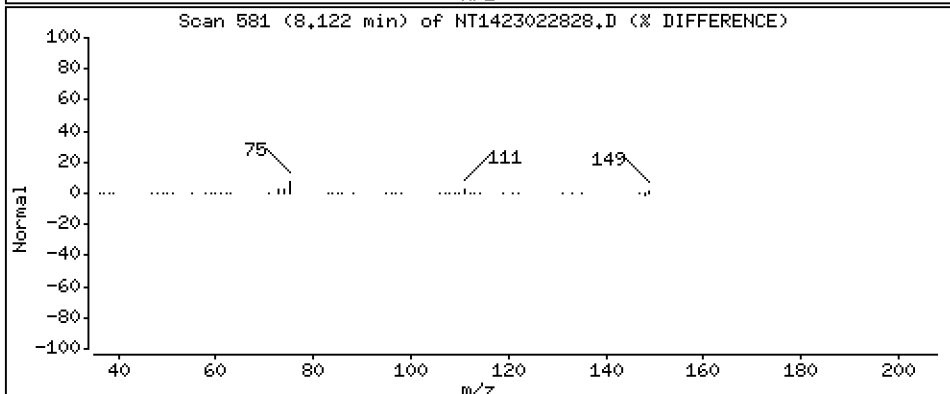
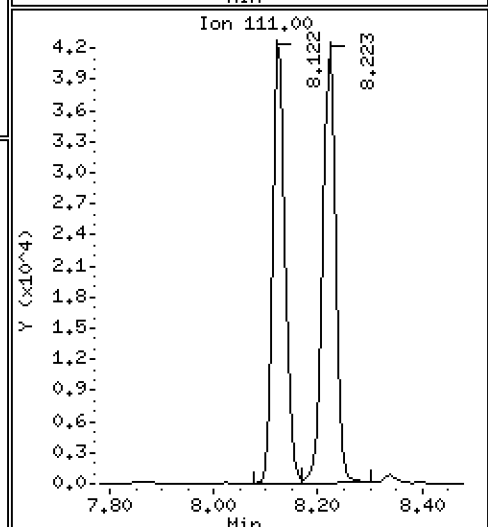
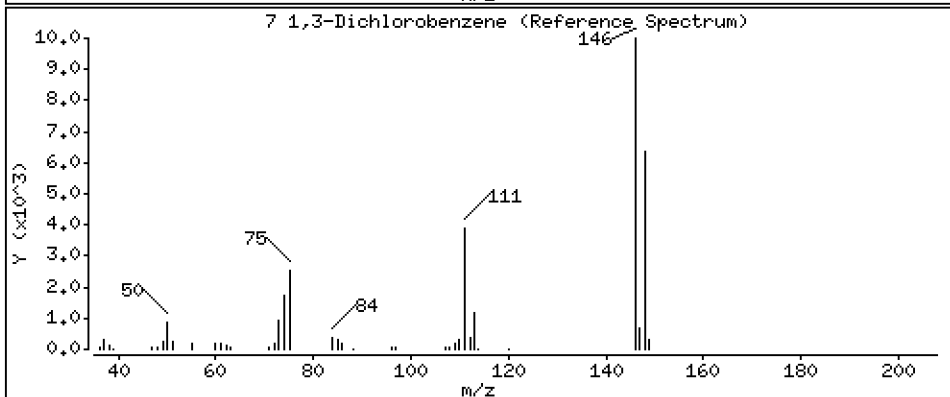
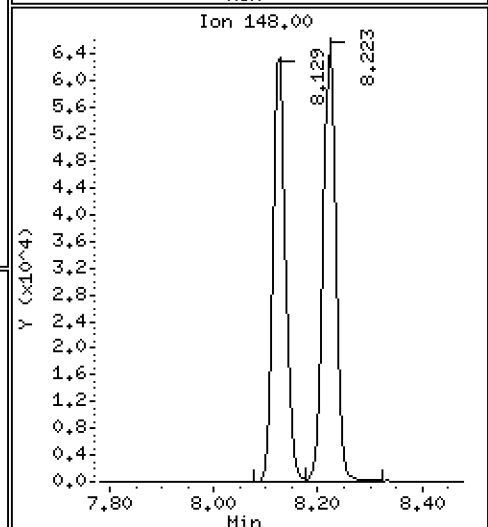
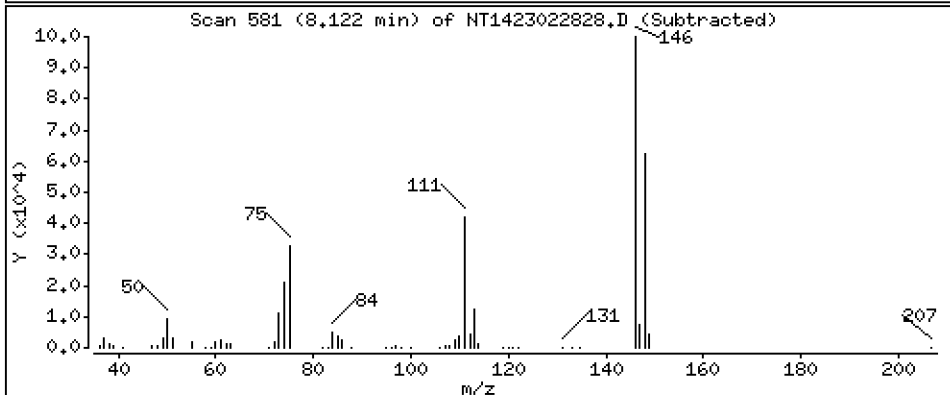
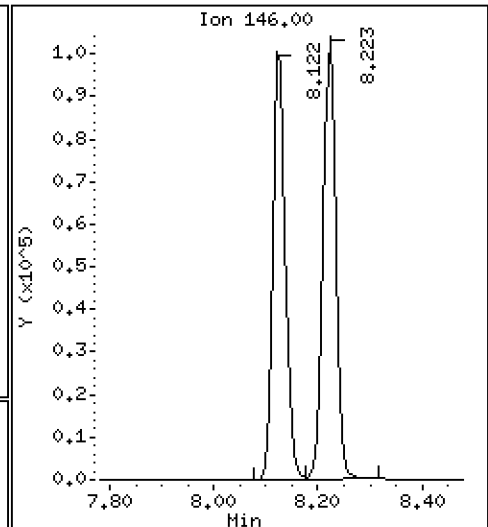
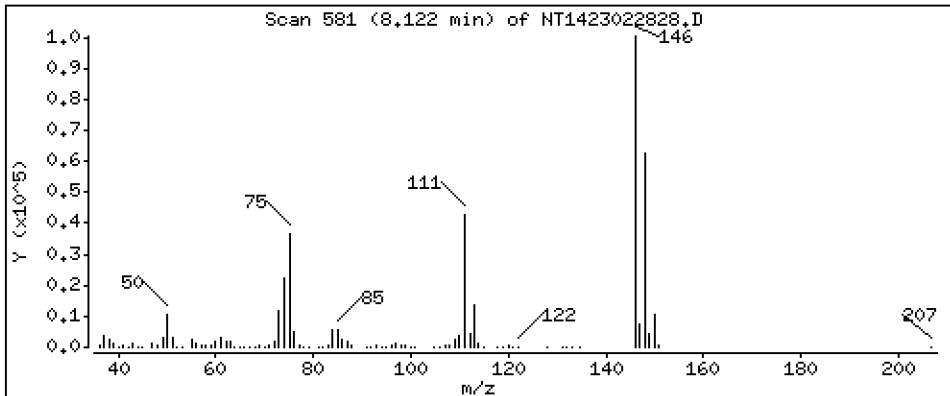
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

7 1,3-Dichlorobenzene

Concentration: 3,958 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

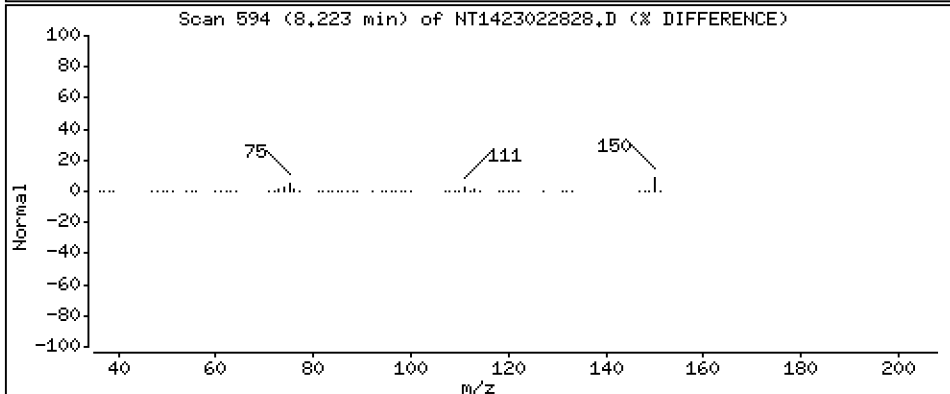
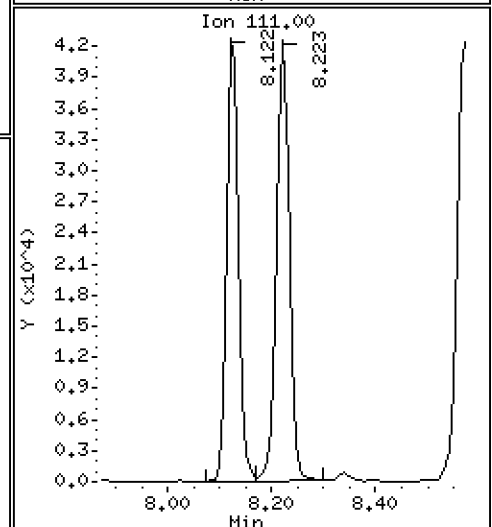
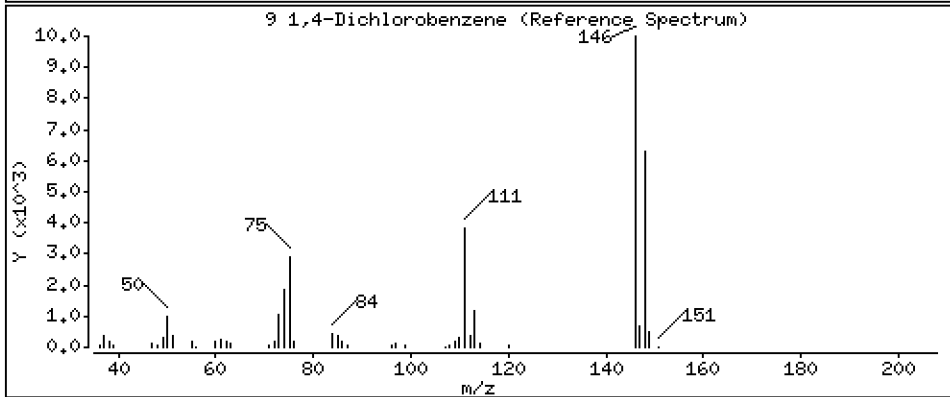
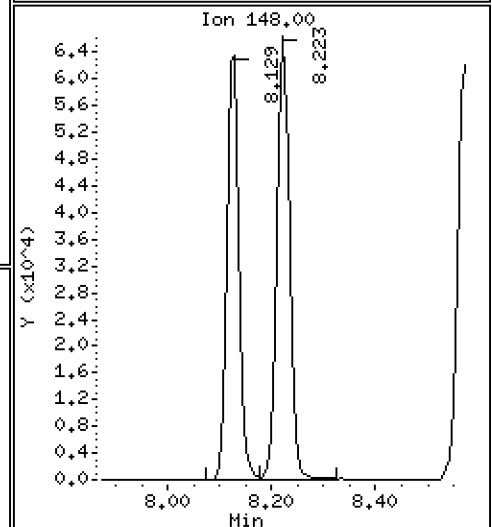
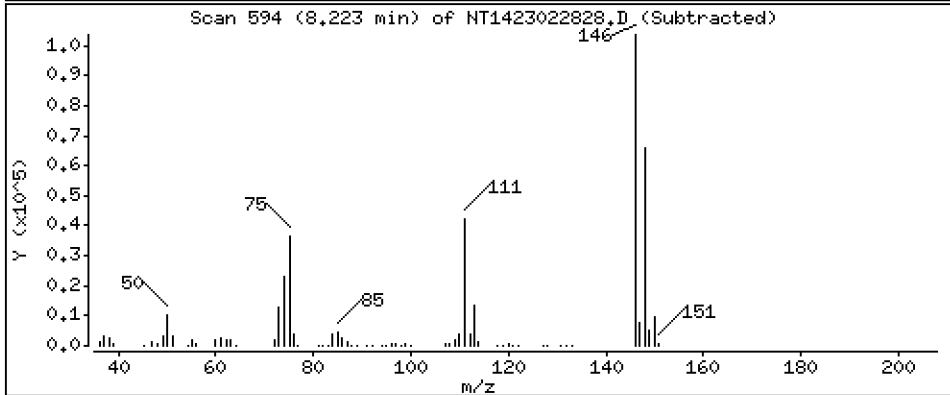
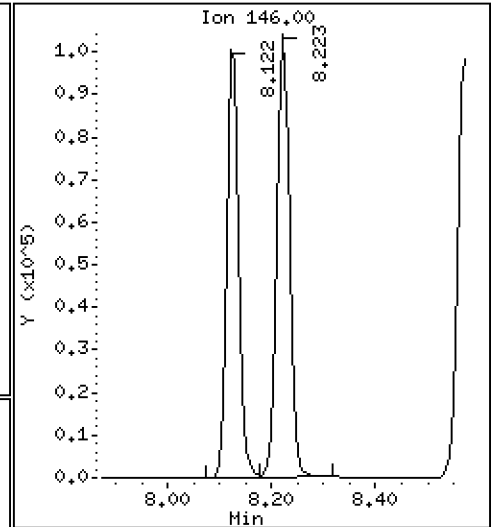
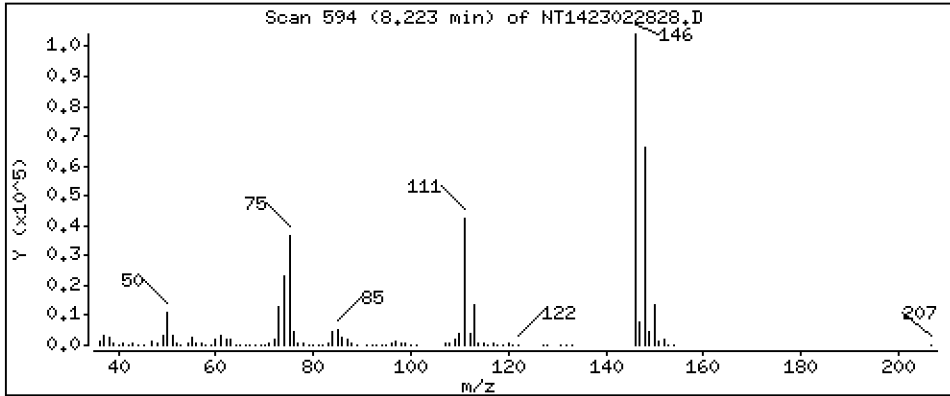
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 3,987 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

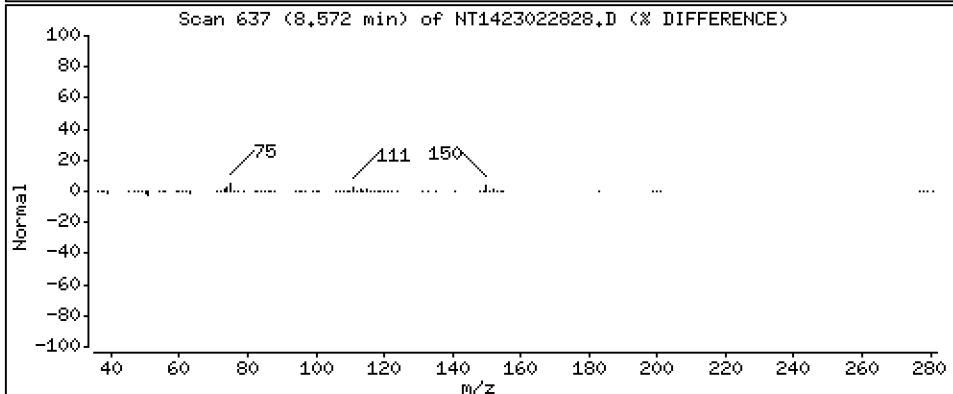
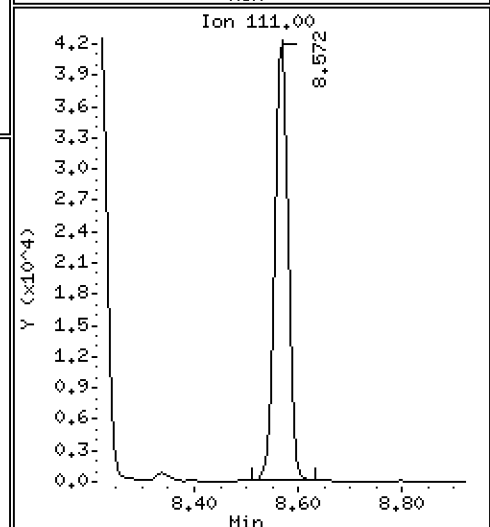
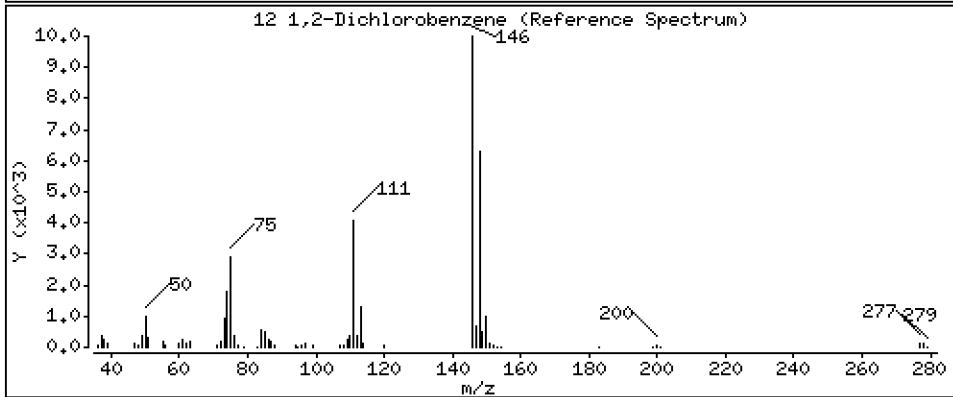
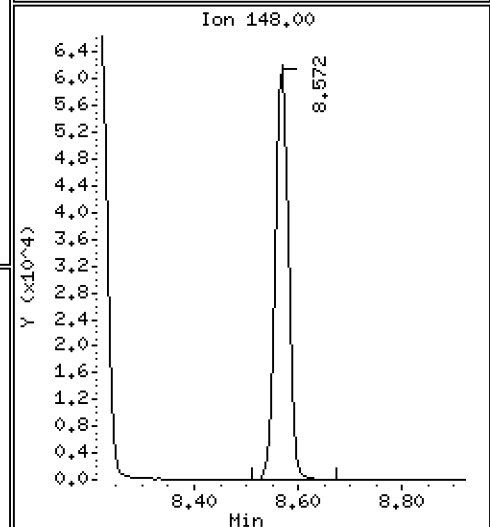
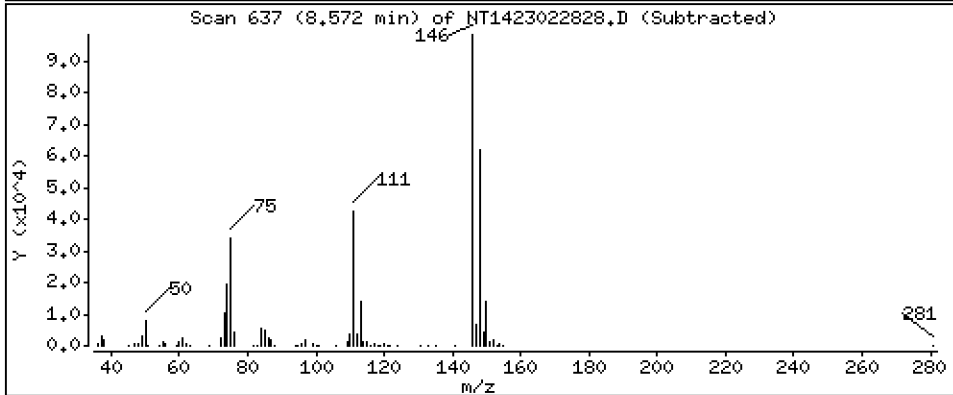
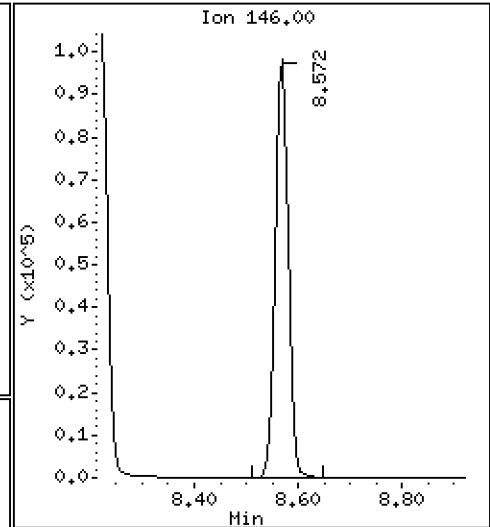
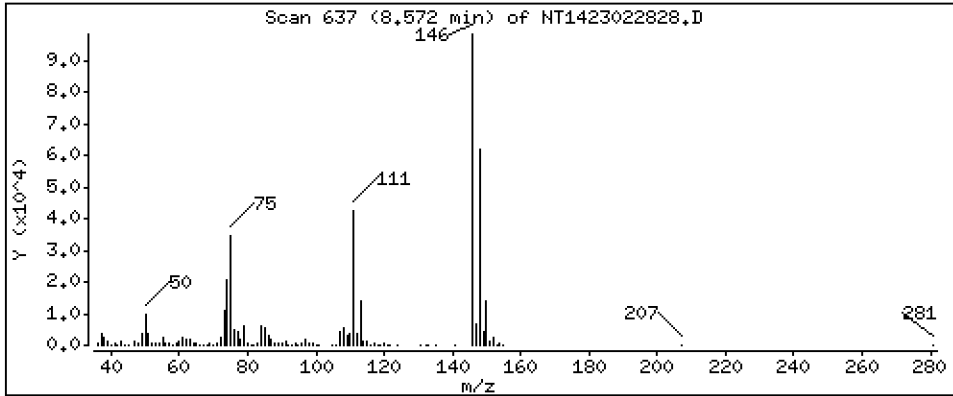
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

12 1,2-Dichlorobenzene

Concentration: 4,079 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

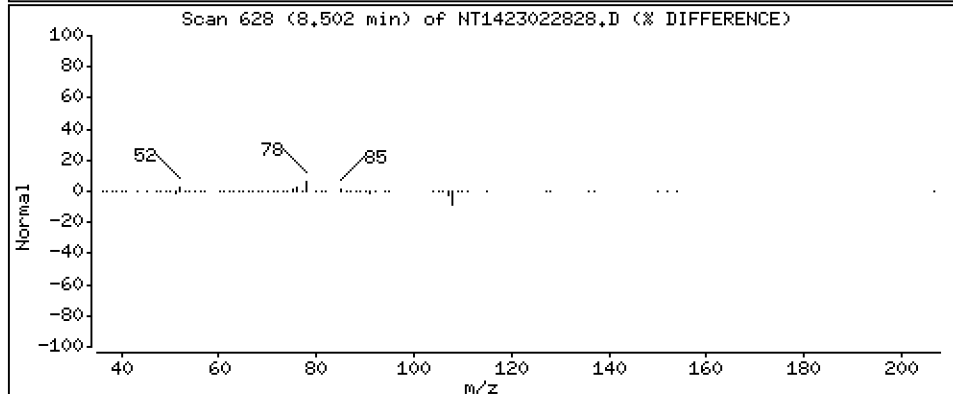
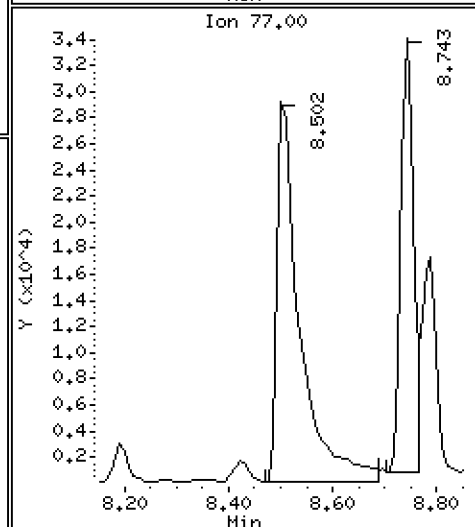
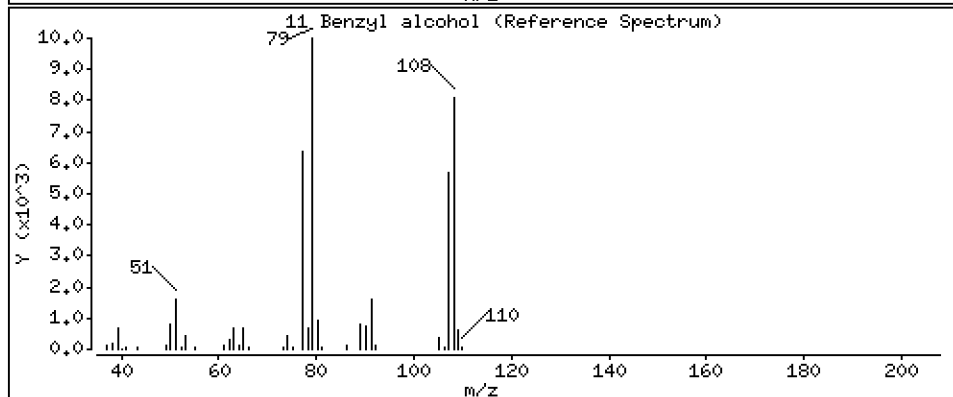
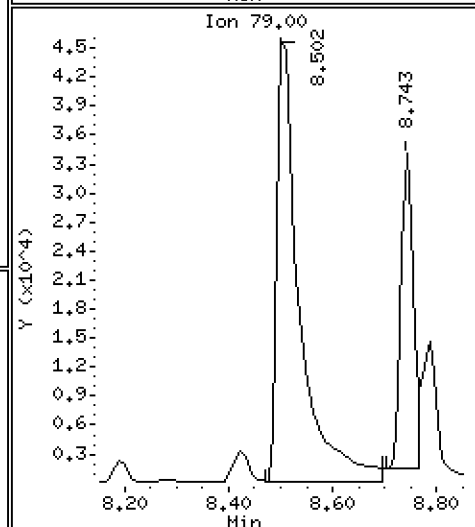
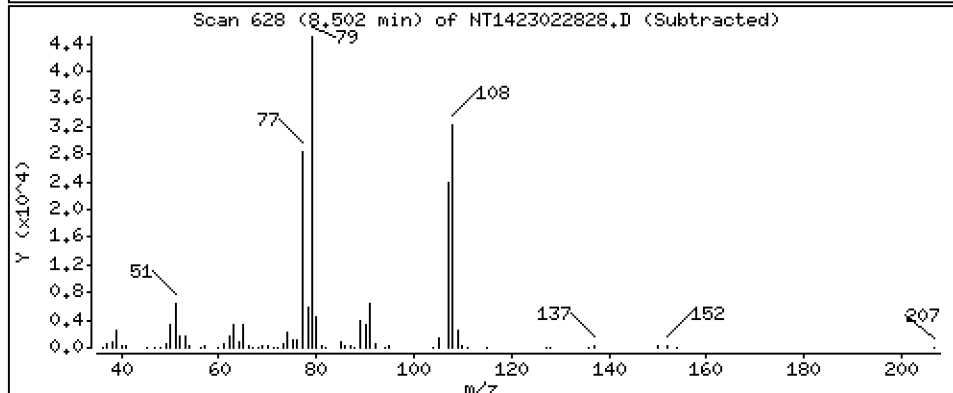
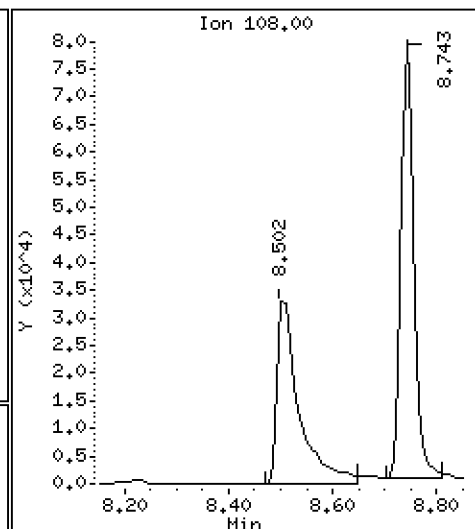
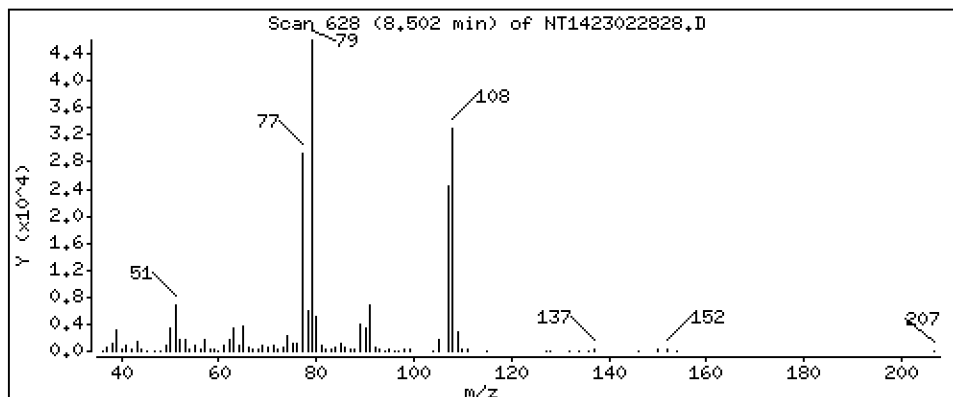
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 4.152 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

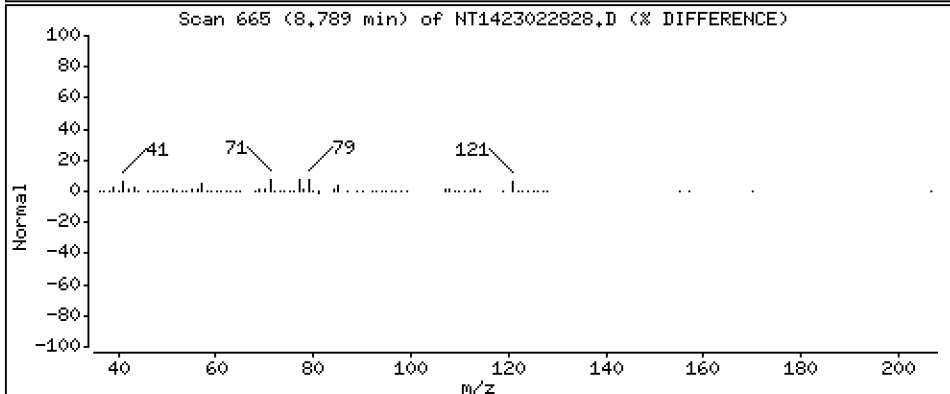
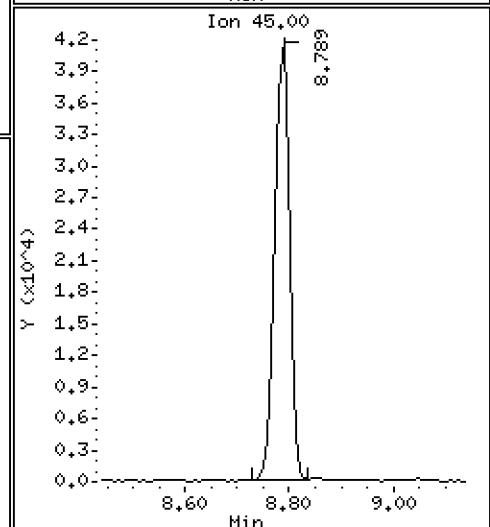
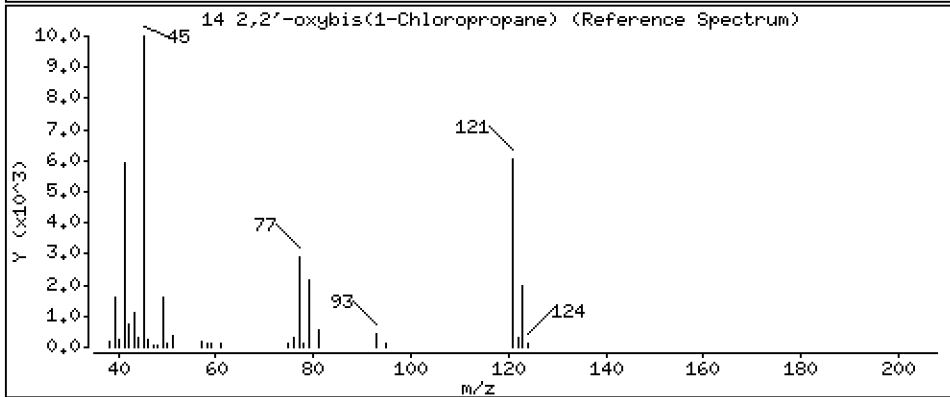
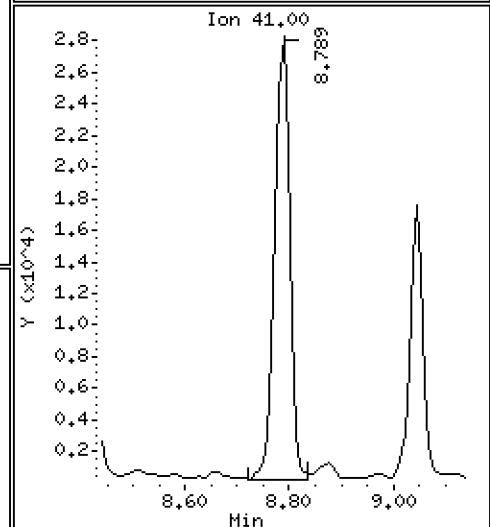
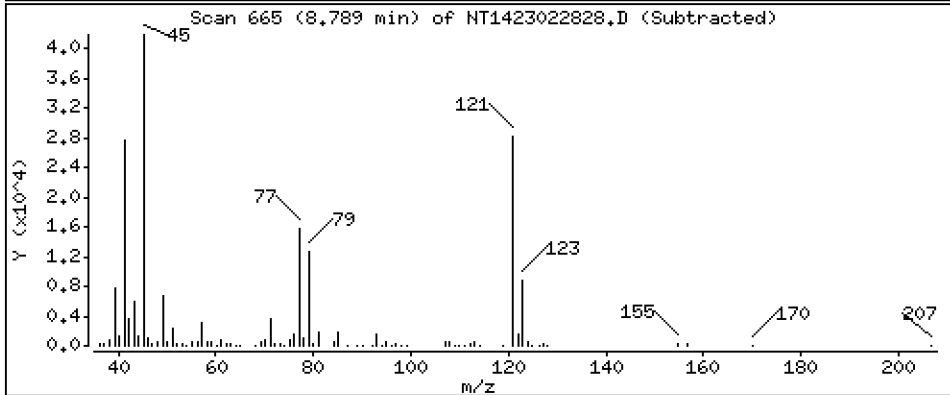
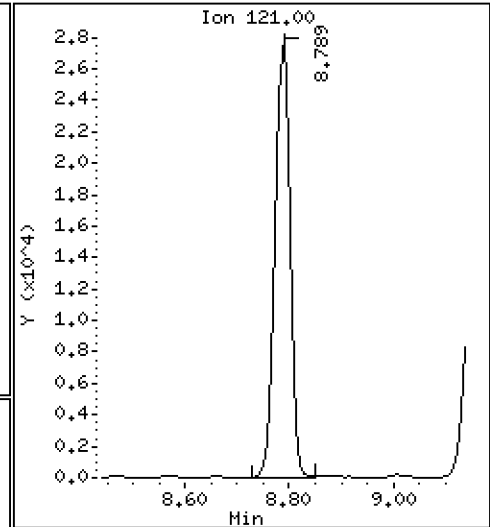
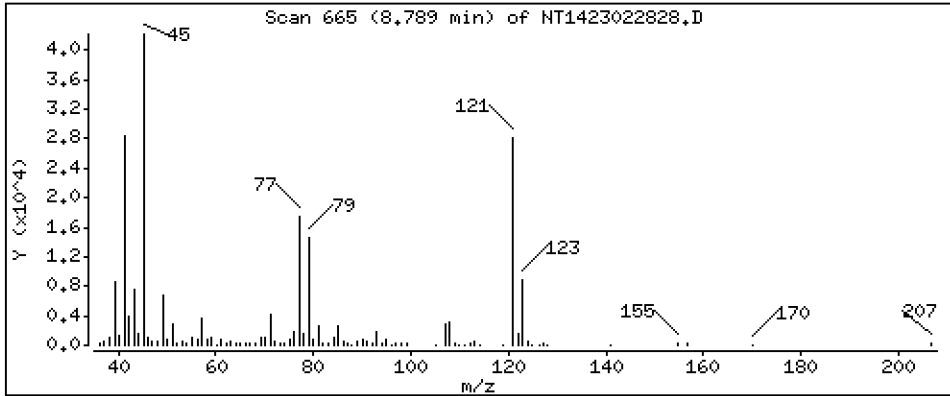
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 4,948 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

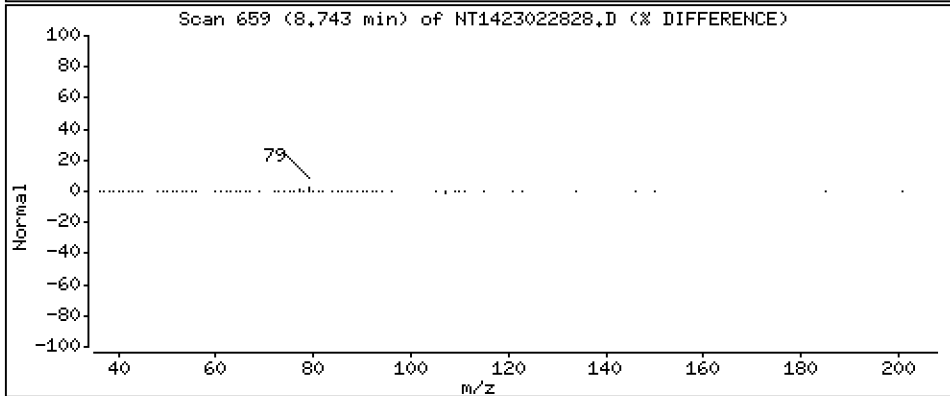
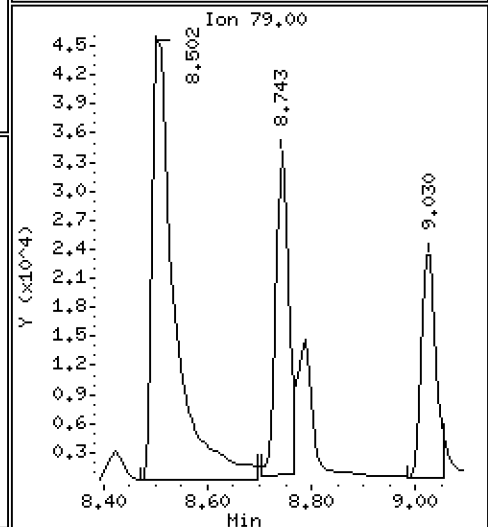
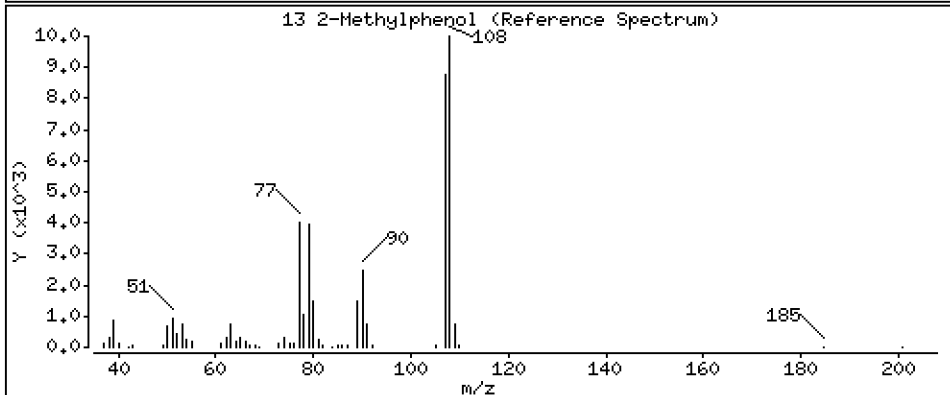
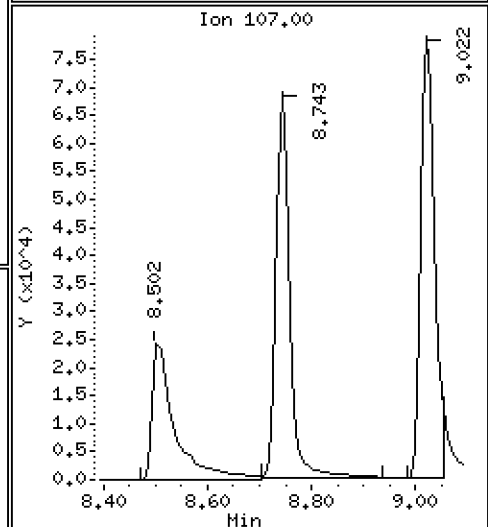
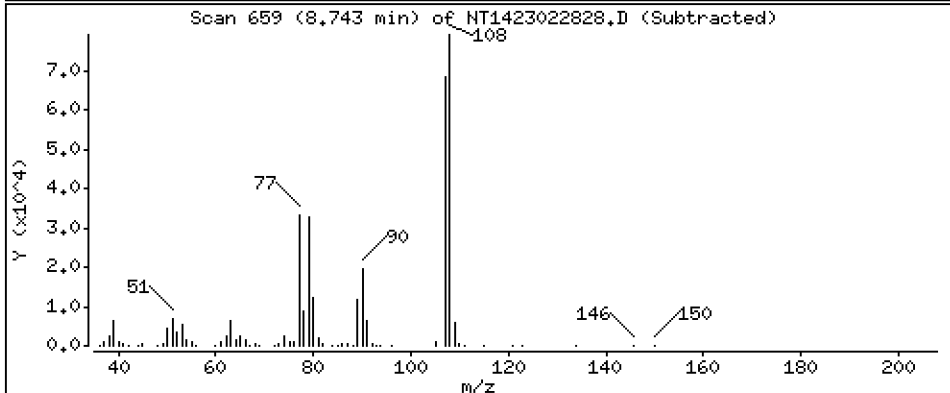
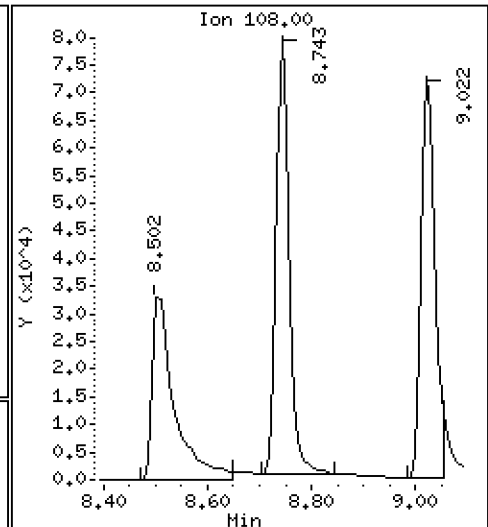
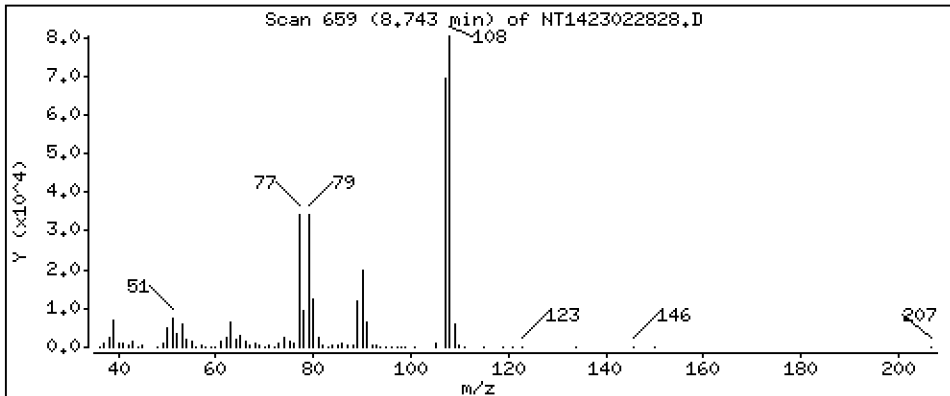
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

13 2-Methylphenol

Concentration: 3,948 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

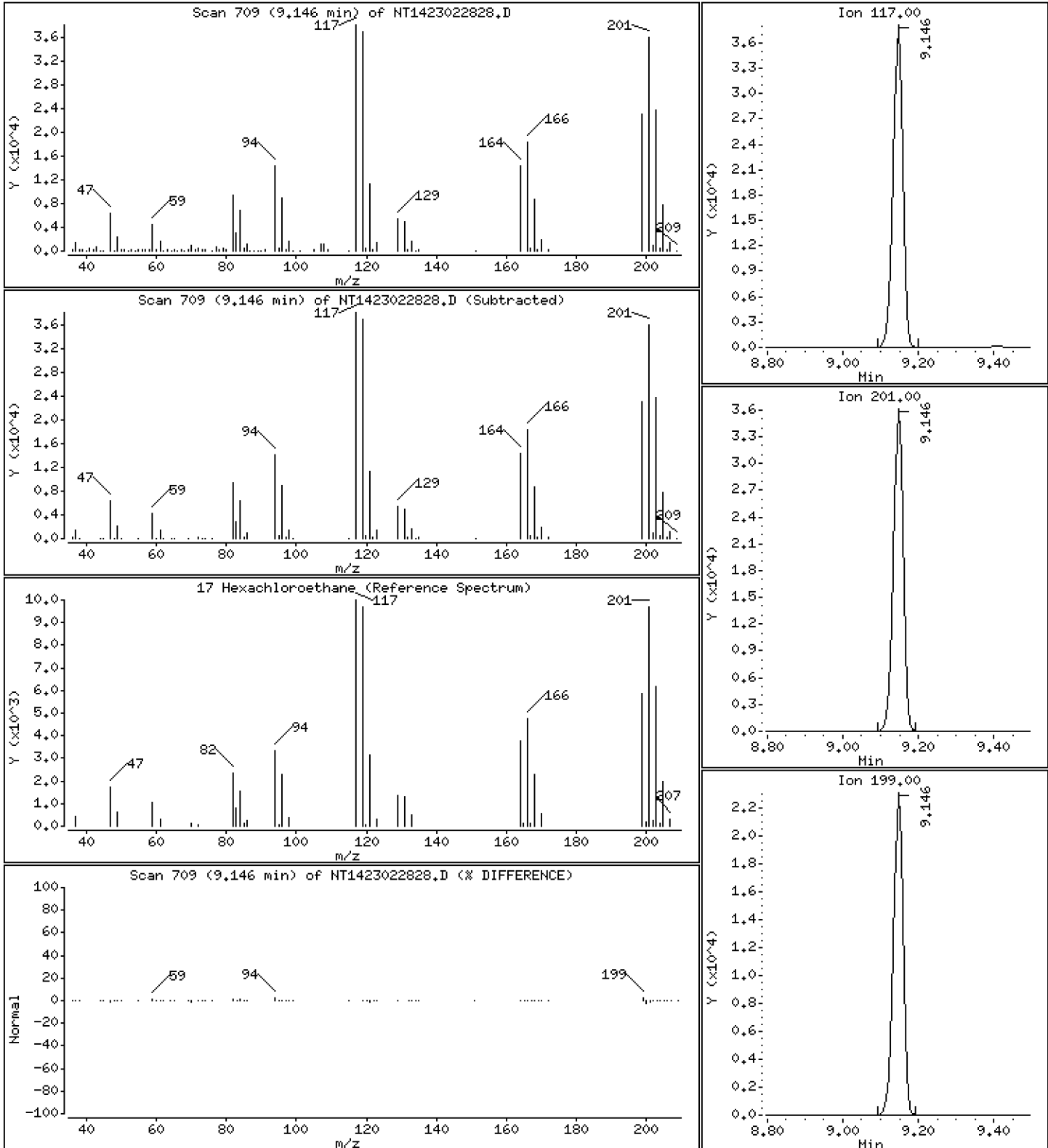
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

17 Hexachloroethane

Concentration: 4.113 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

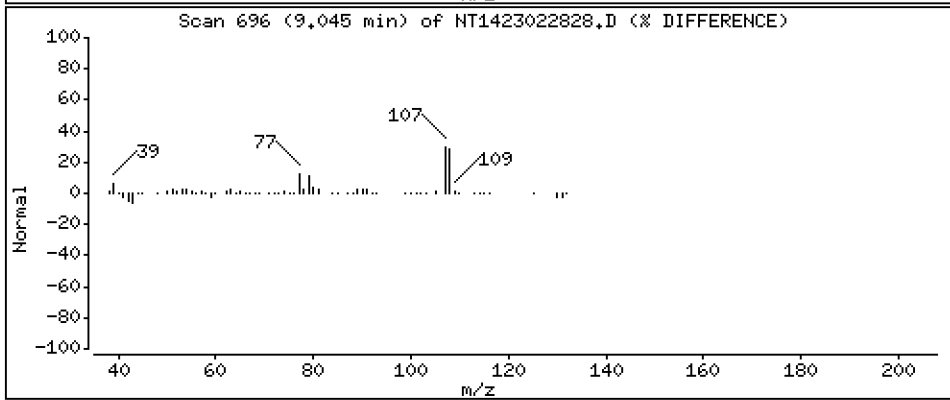
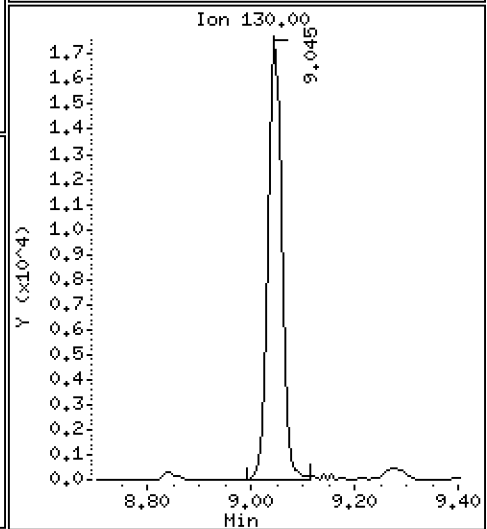
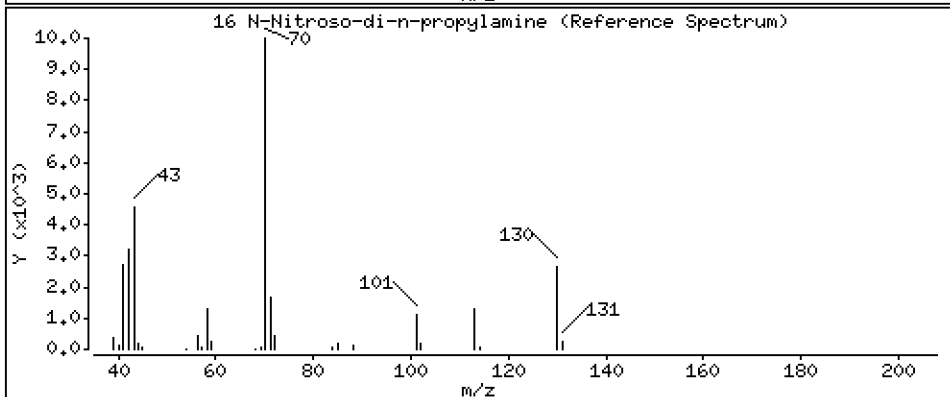
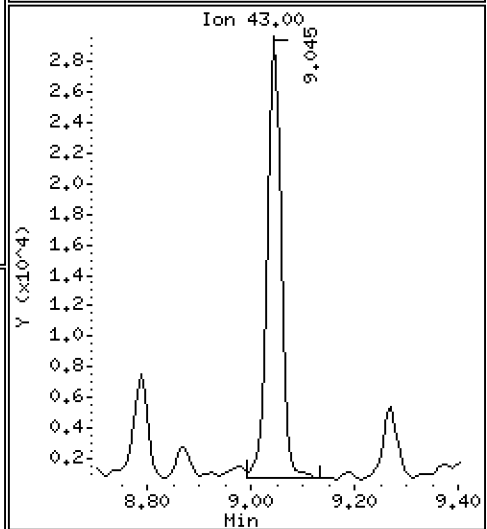
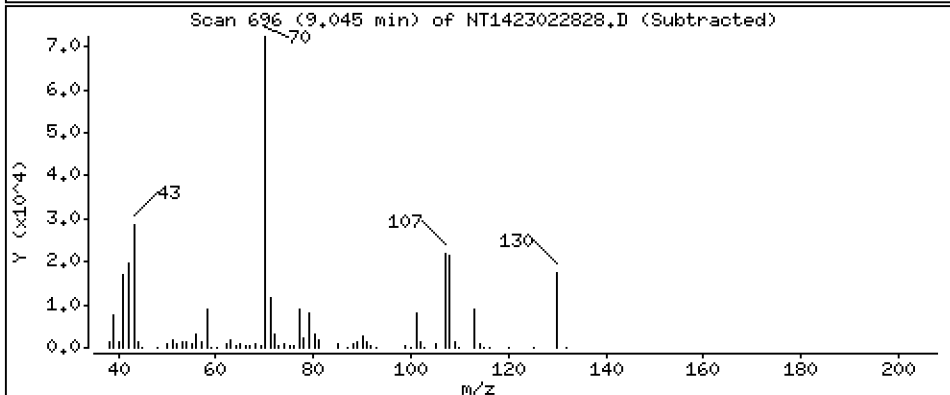
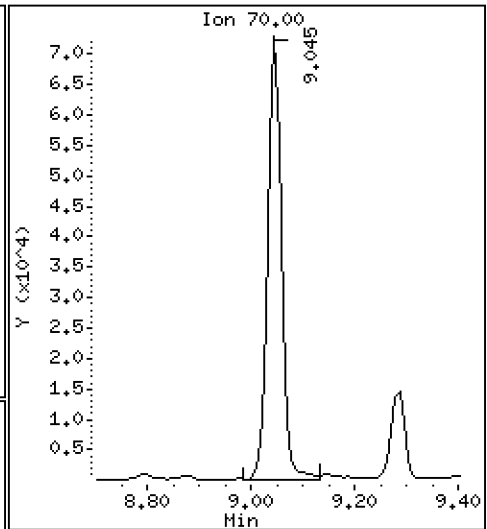
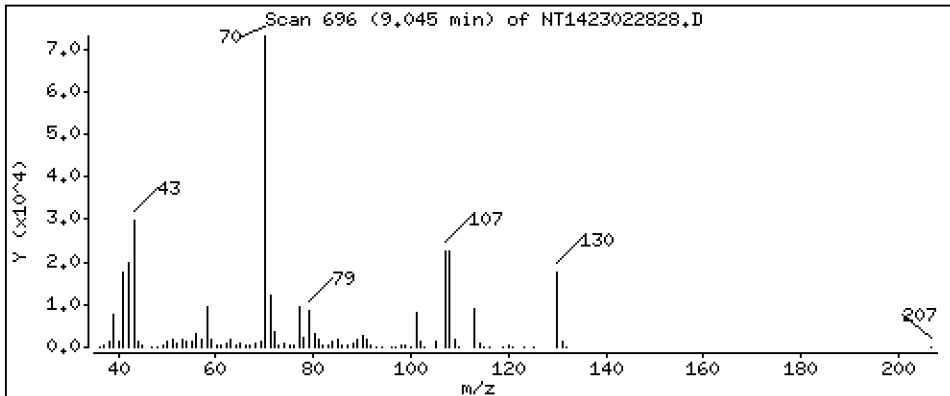
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

16 N-Nitroso-di-n-propylamine

Concentration: 5,021 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

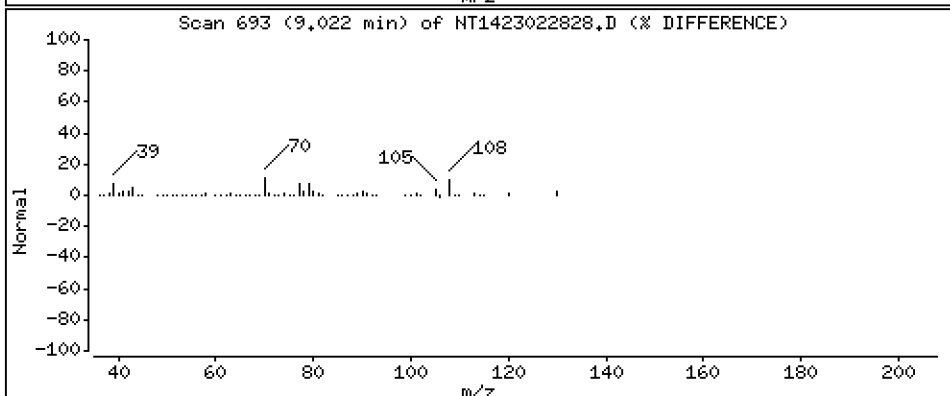
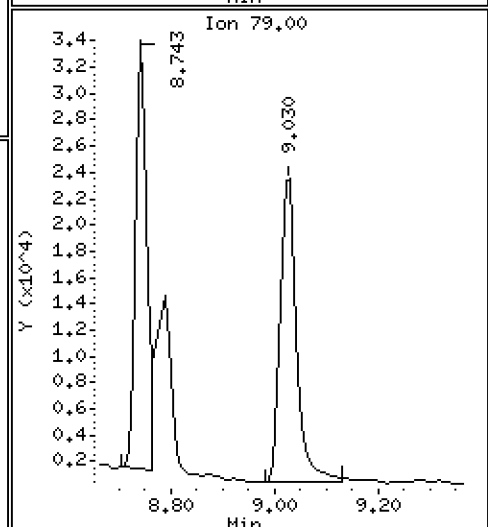
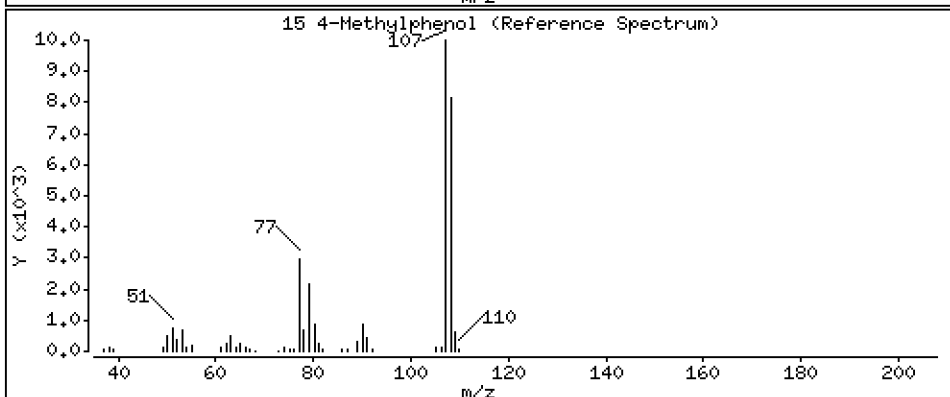
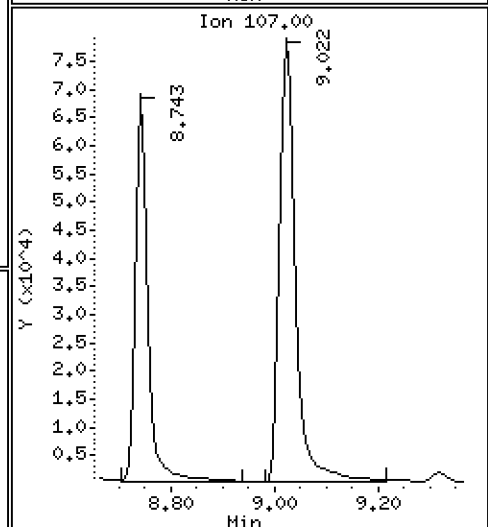
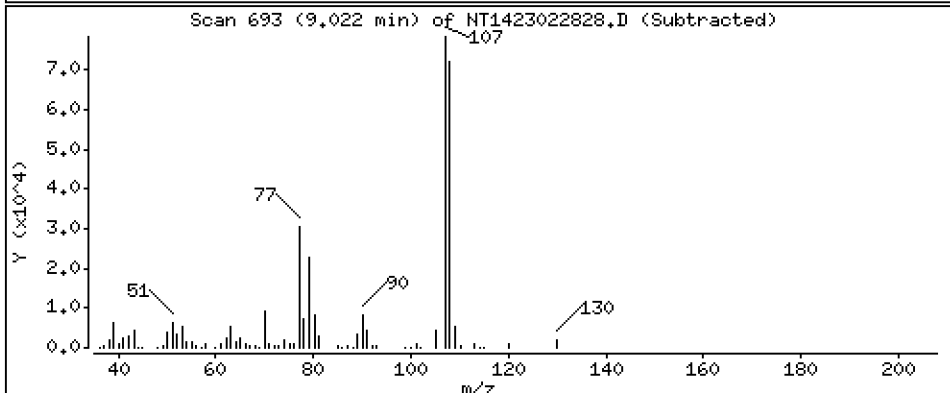
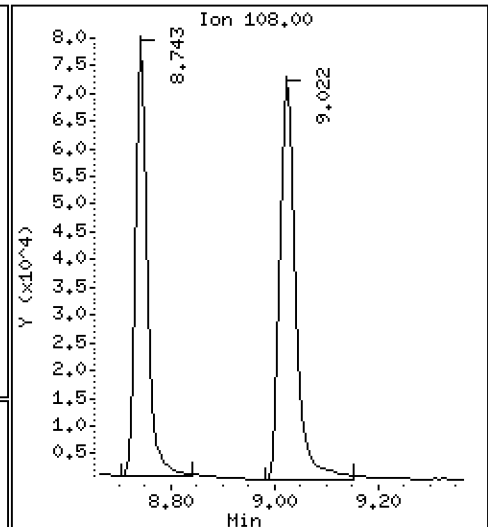
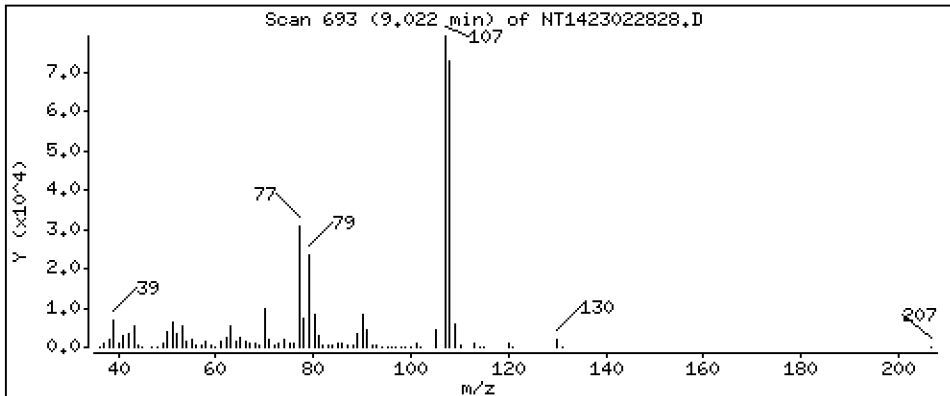
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

15 4-Methylphenol

Concentration: 4,047 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

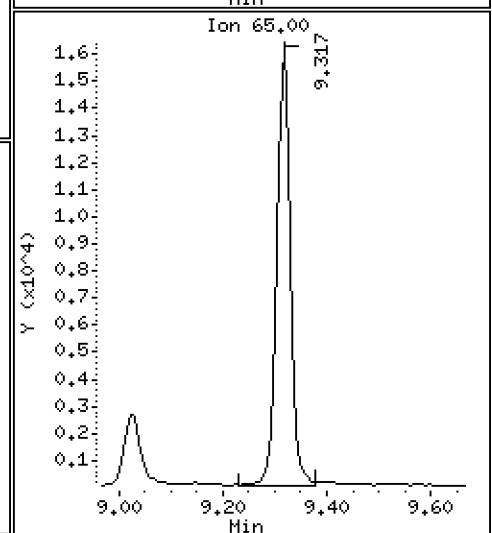
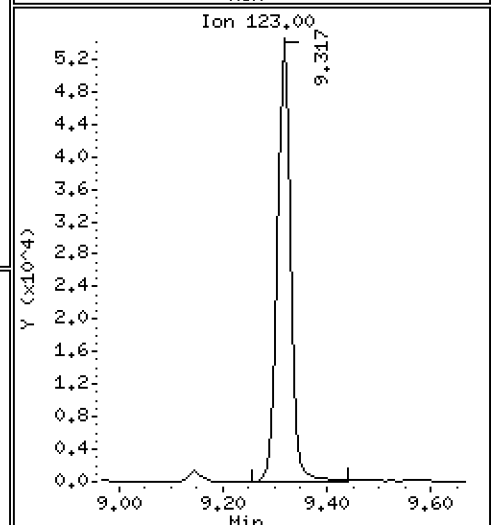
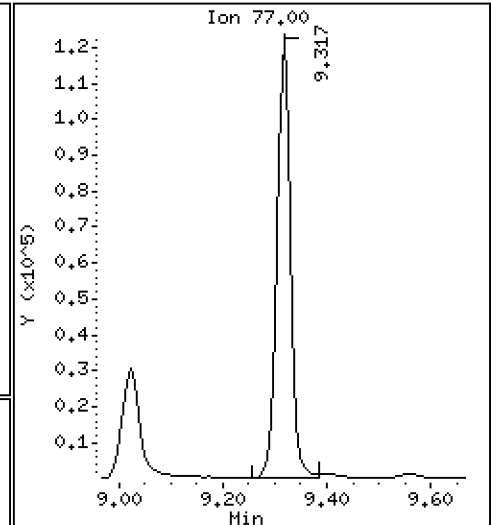
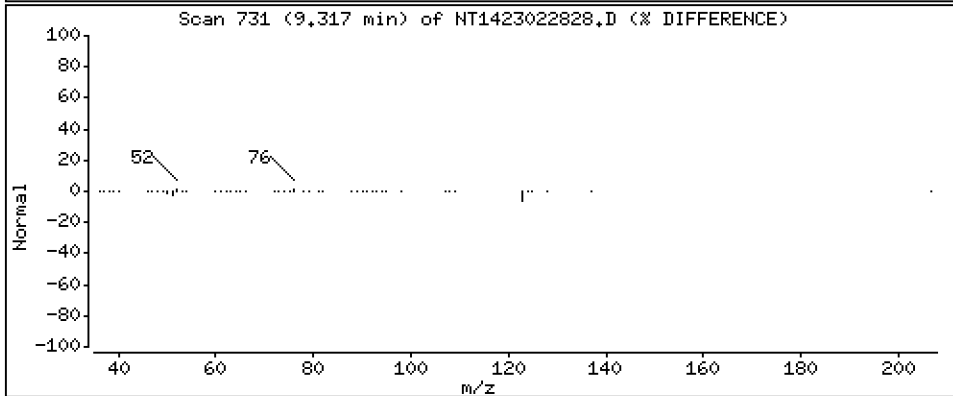
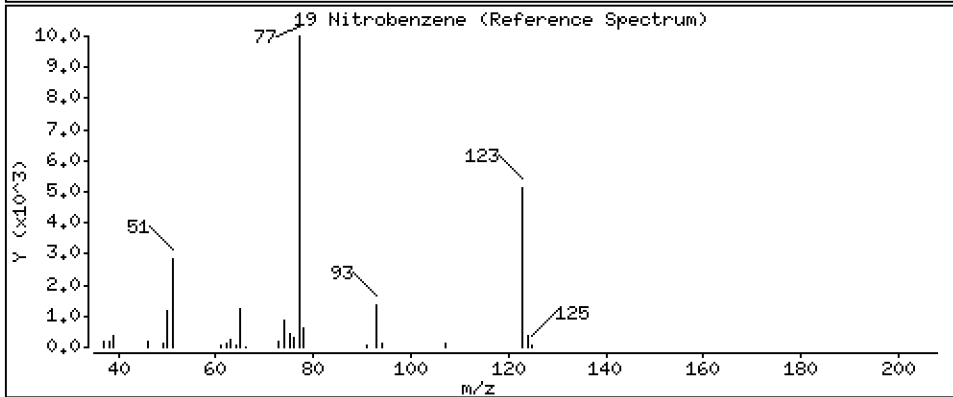
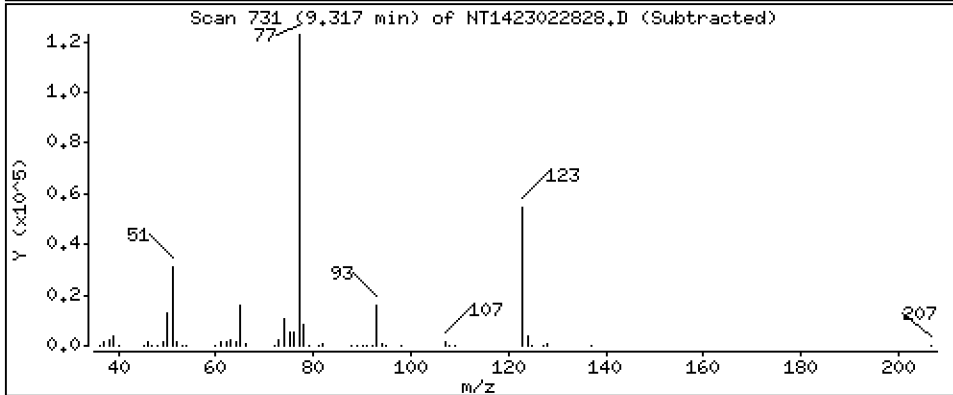
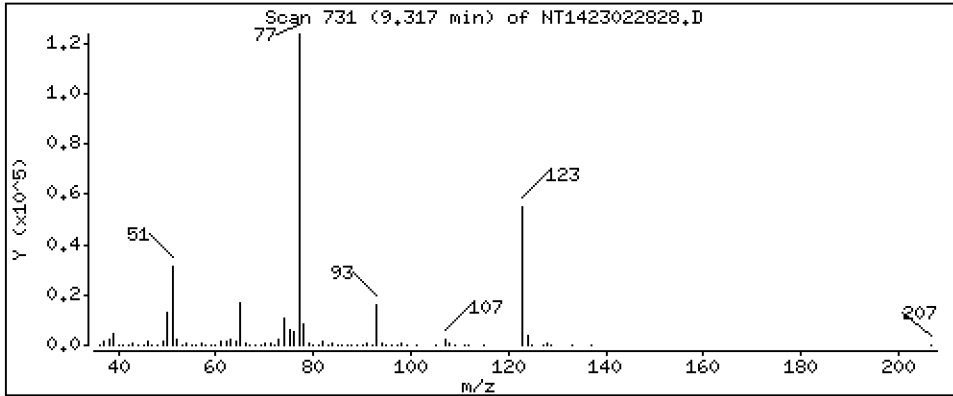
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

Concentration: 5,374 ug/mL

19 Nitrobenzene



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

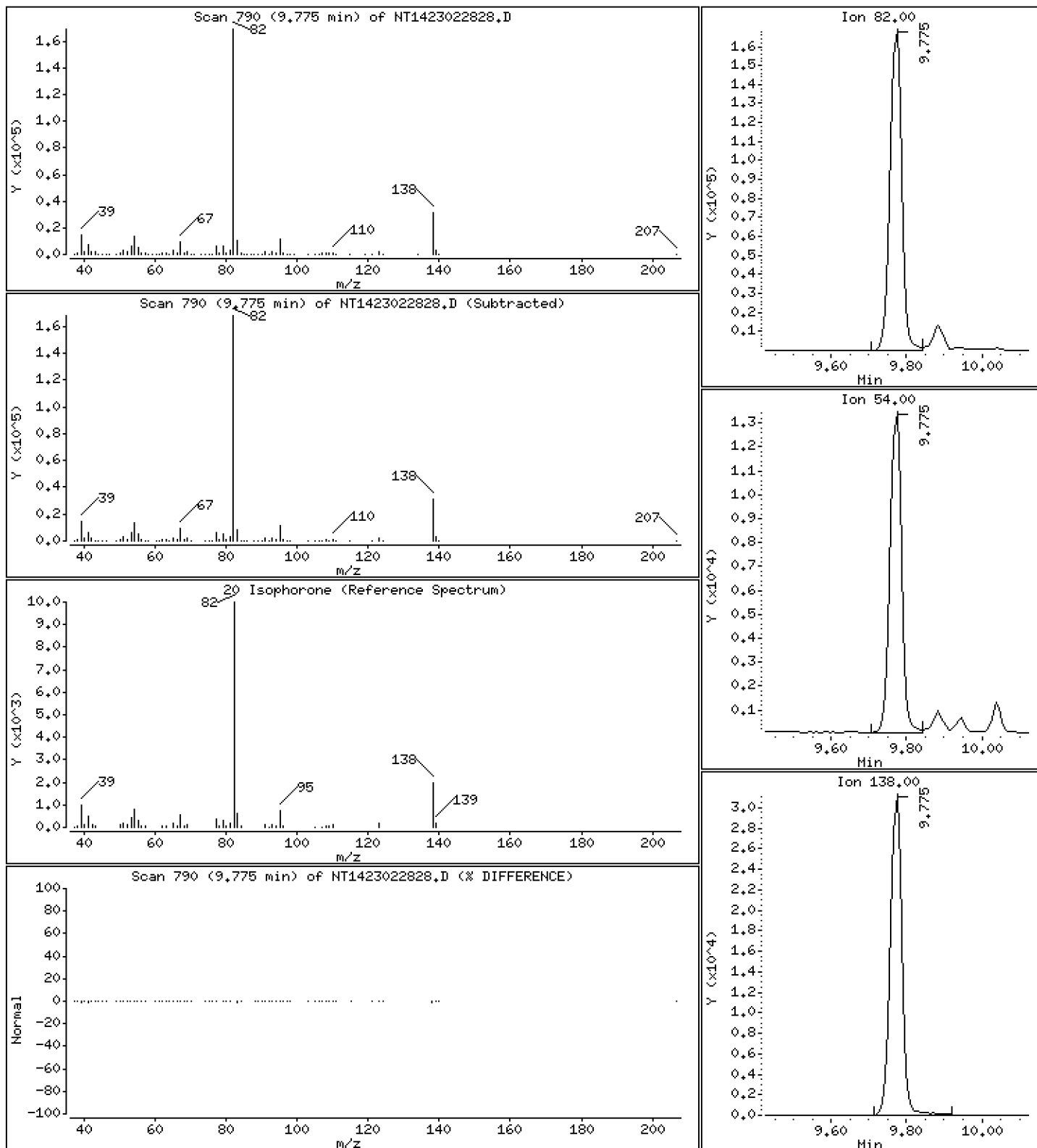
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

20 Isophorone

Concentration: 5,910 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

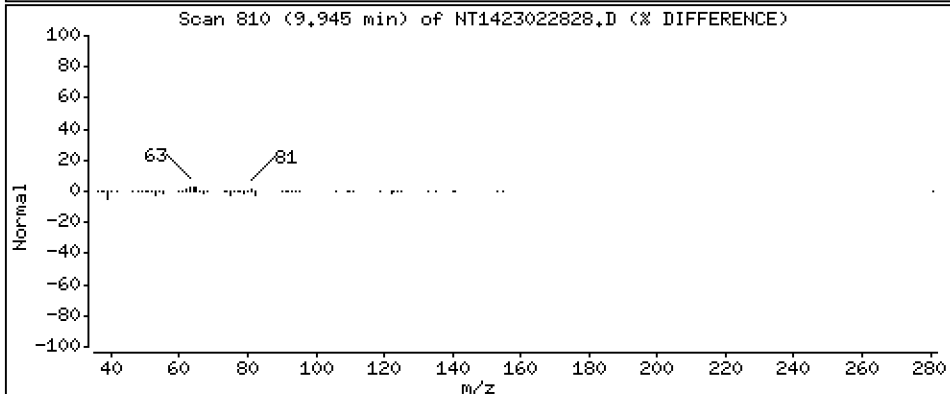
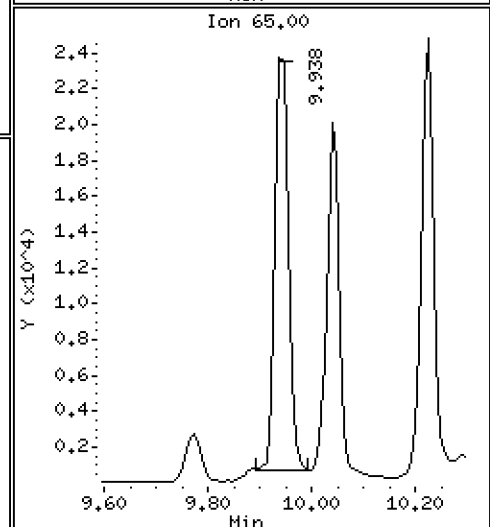
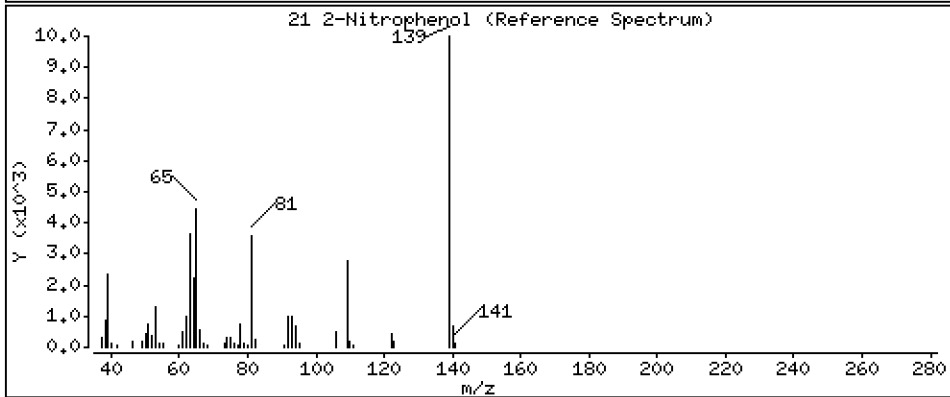
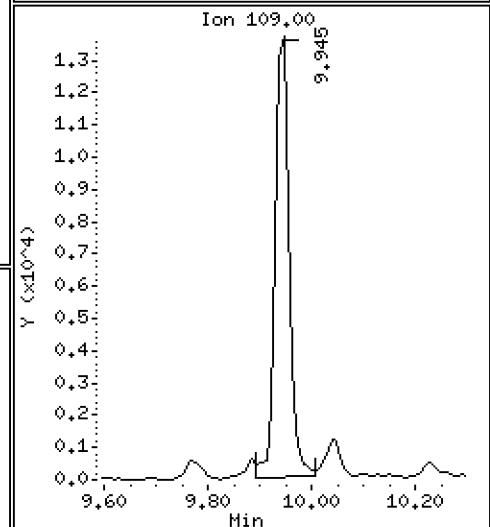
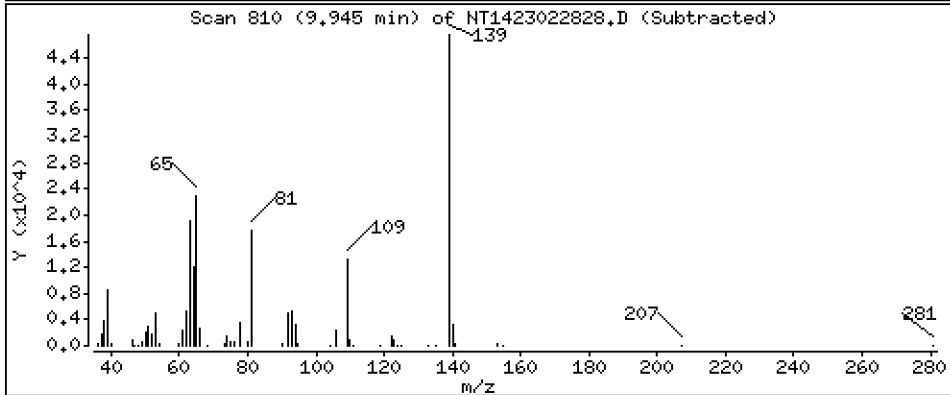
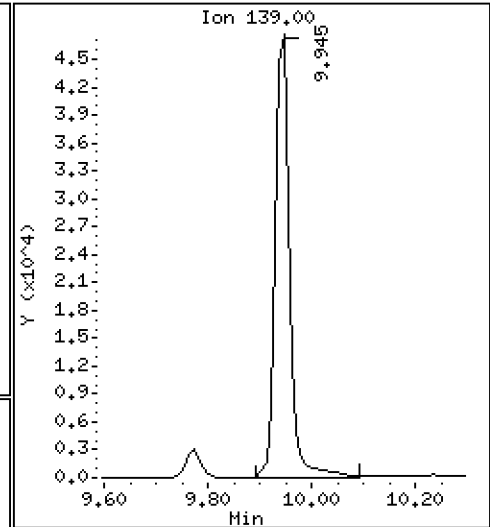
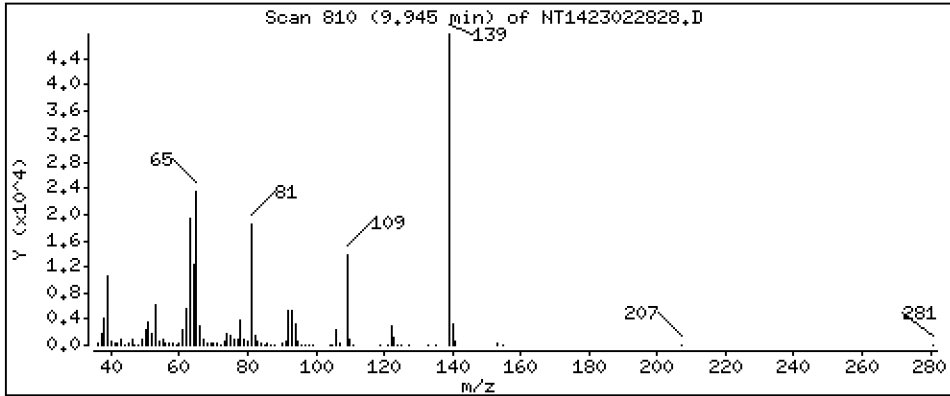
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

21 2-Nitrophenol

Concentration: 4,642 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

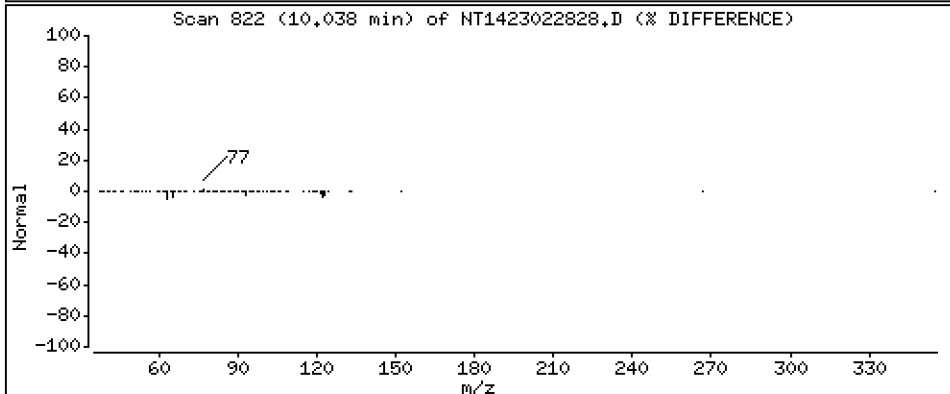
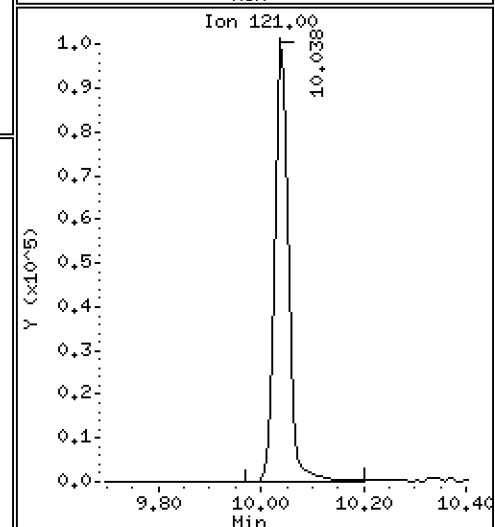
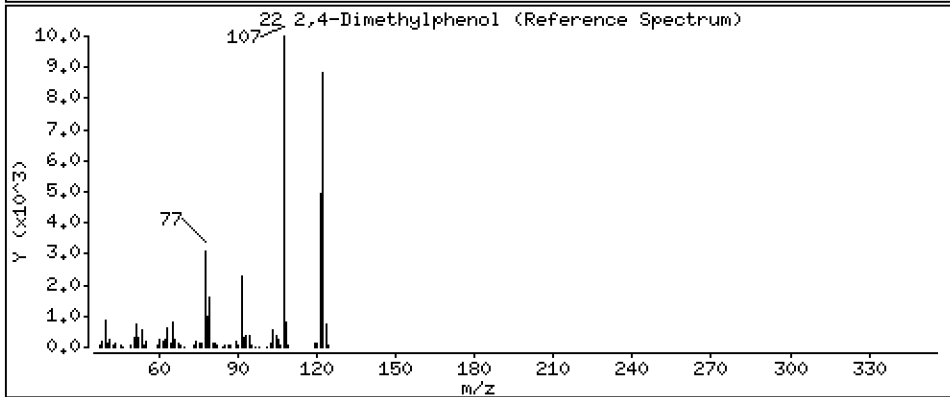
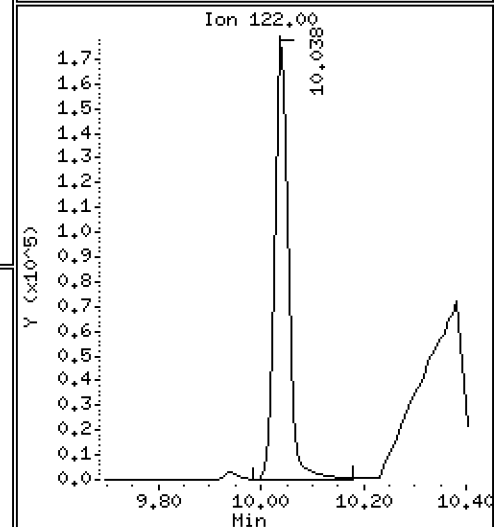
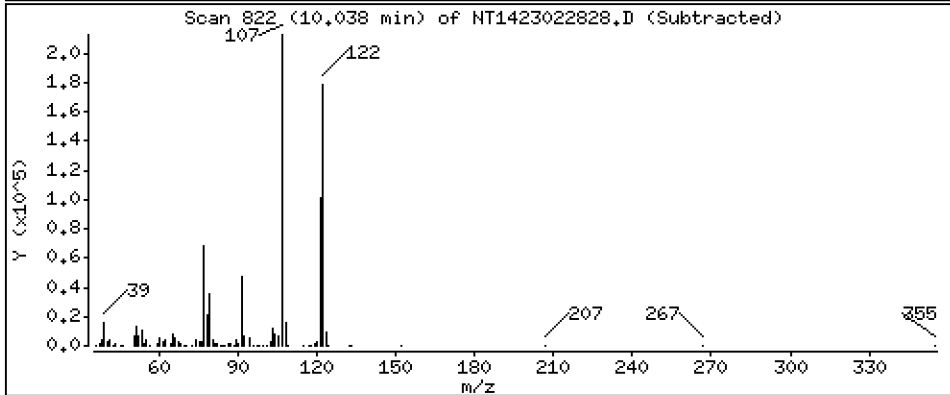
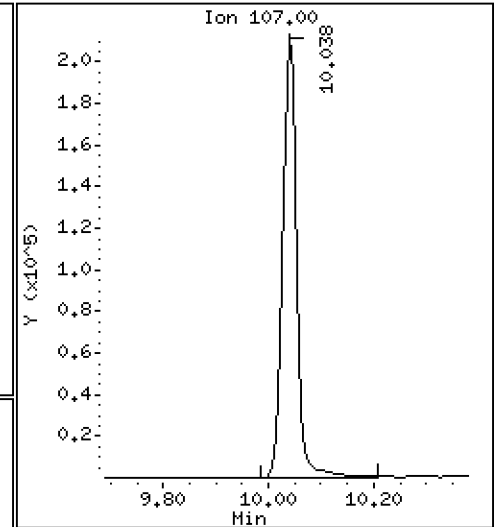
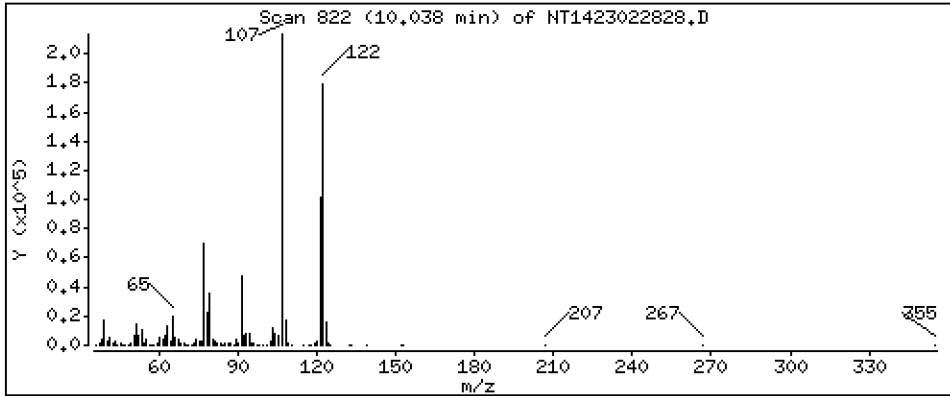
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 10,67 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

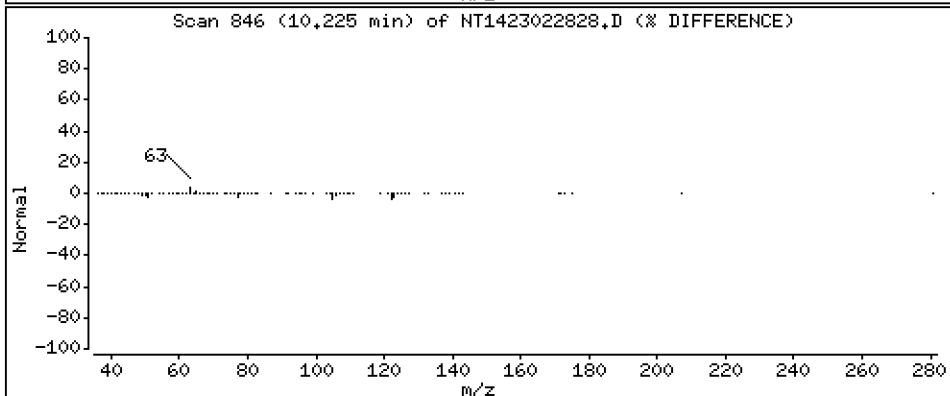
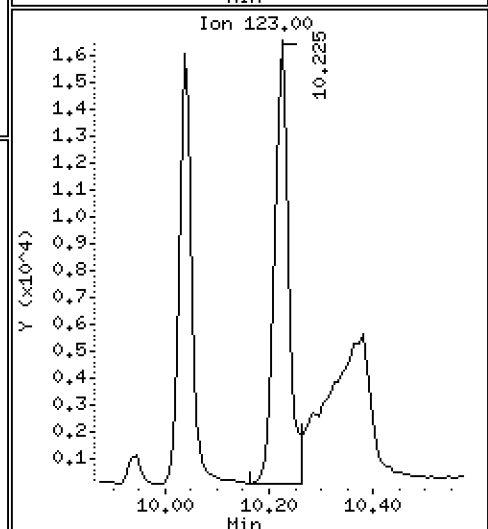
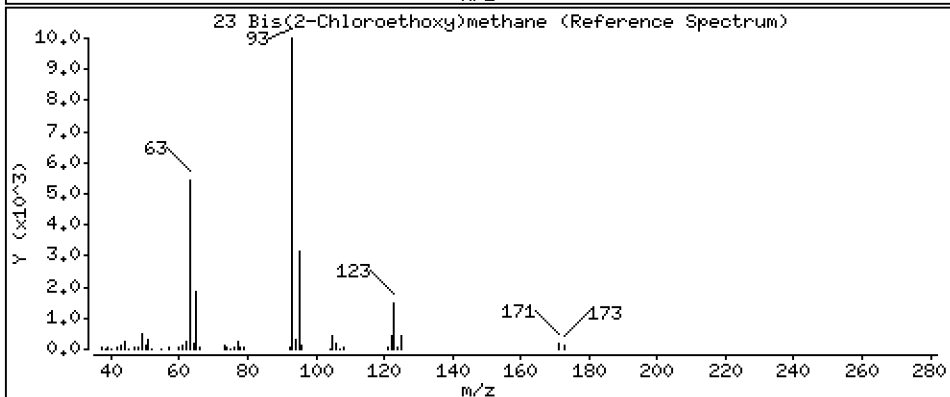
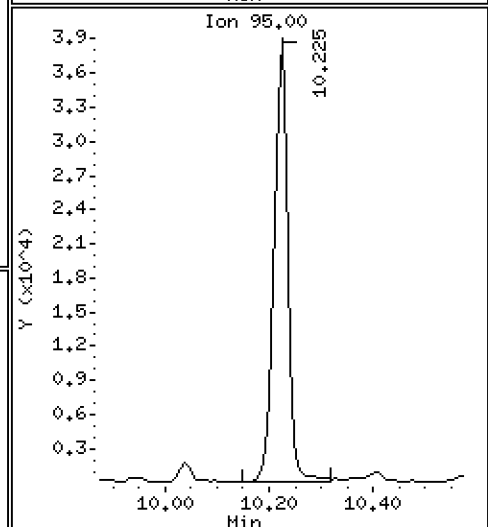
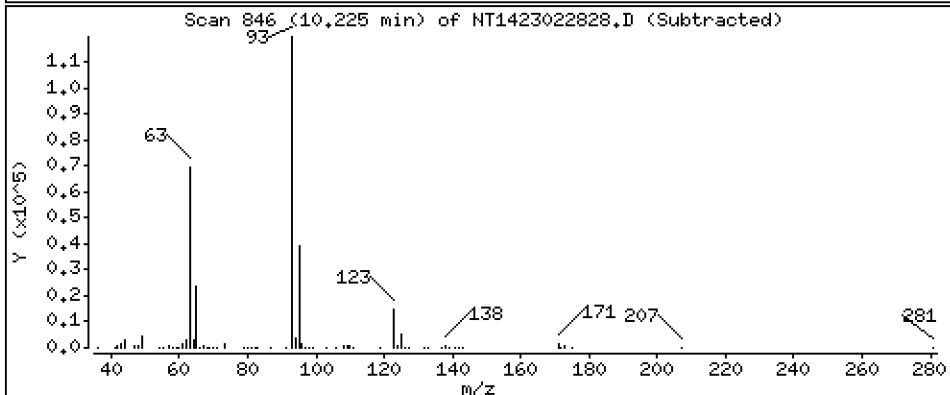
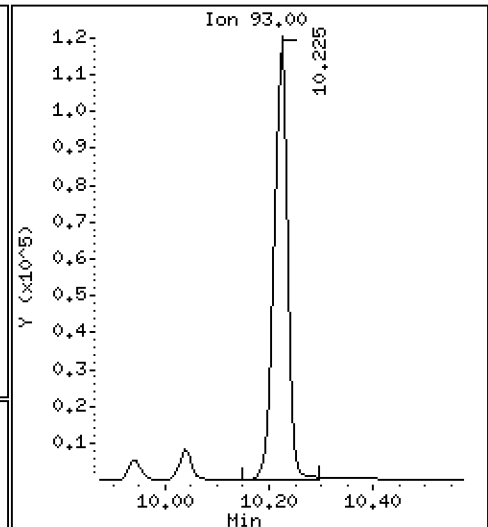
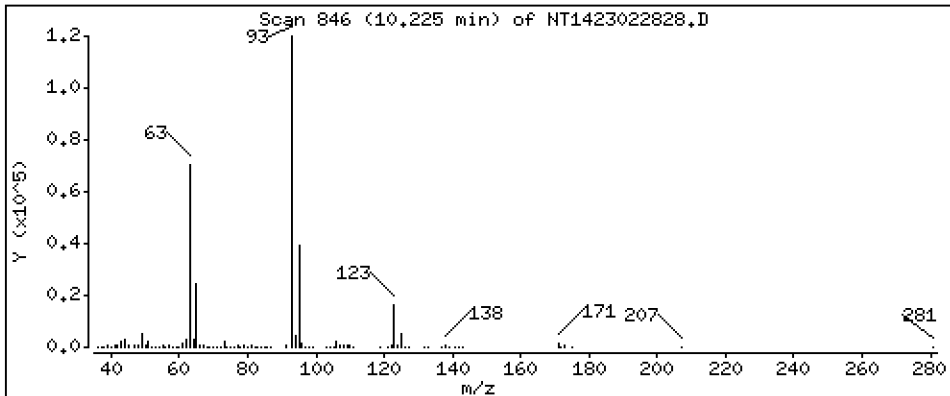
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

23 Bis(2-Chloroethoxy)methane

Concentration: 5,355 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

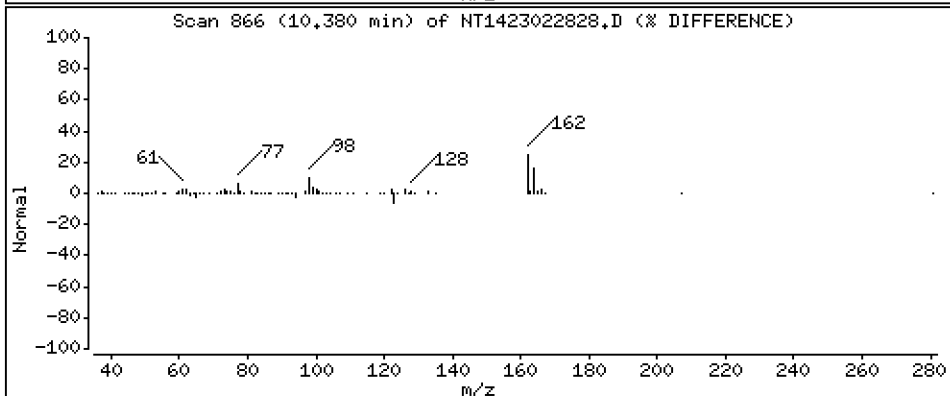
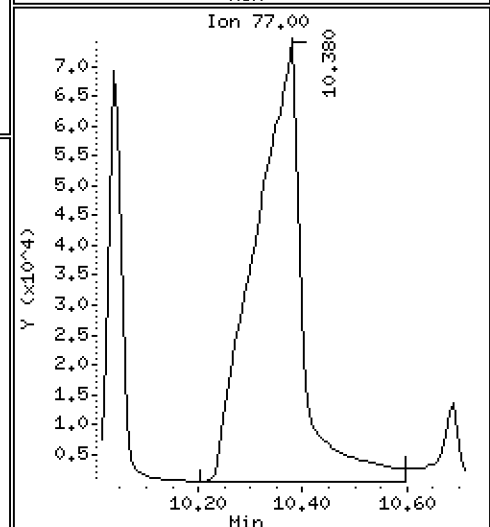
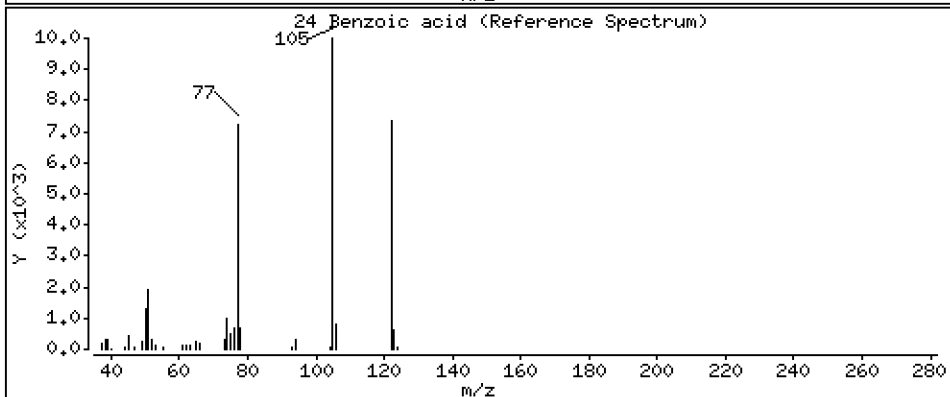
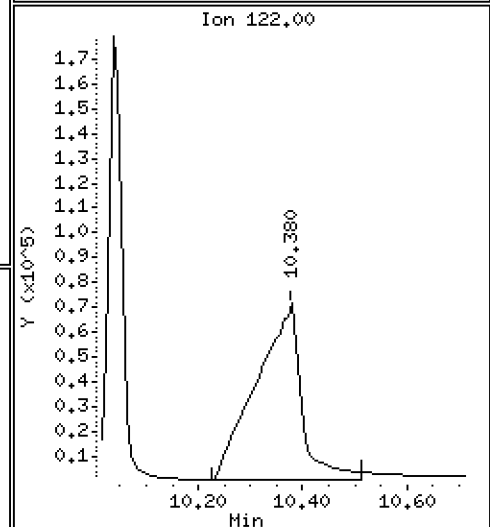
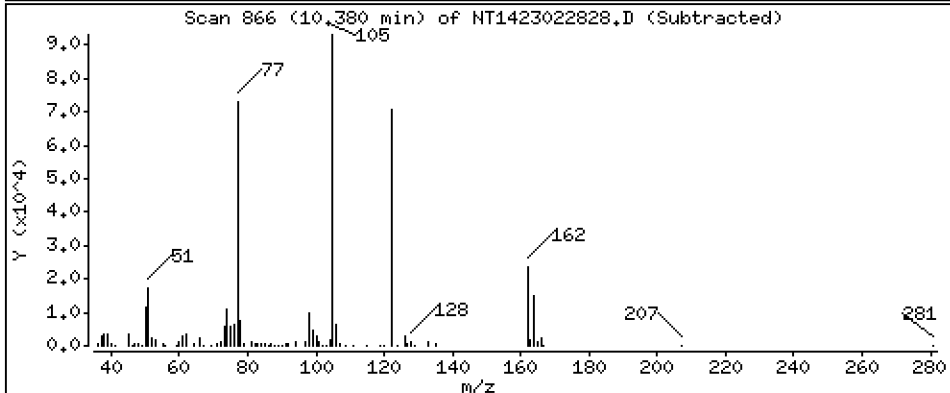
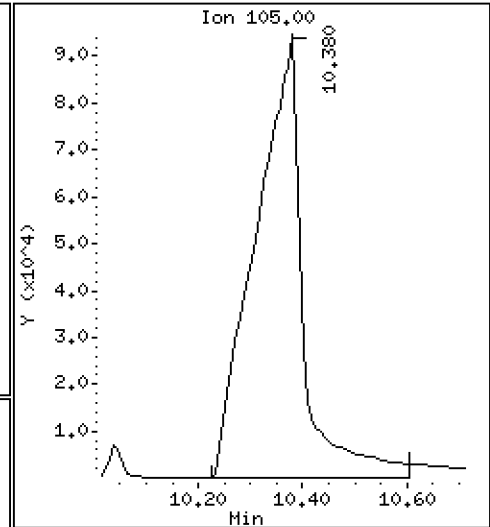
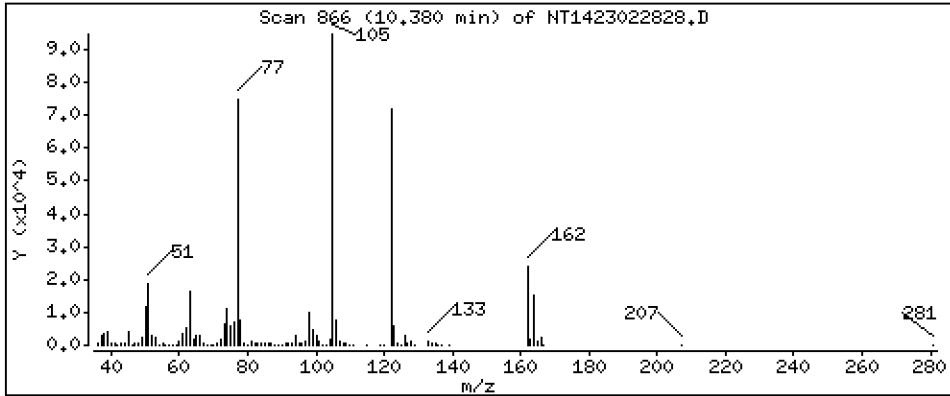
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

24 Benzoic acid

Concentration: 40,24 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

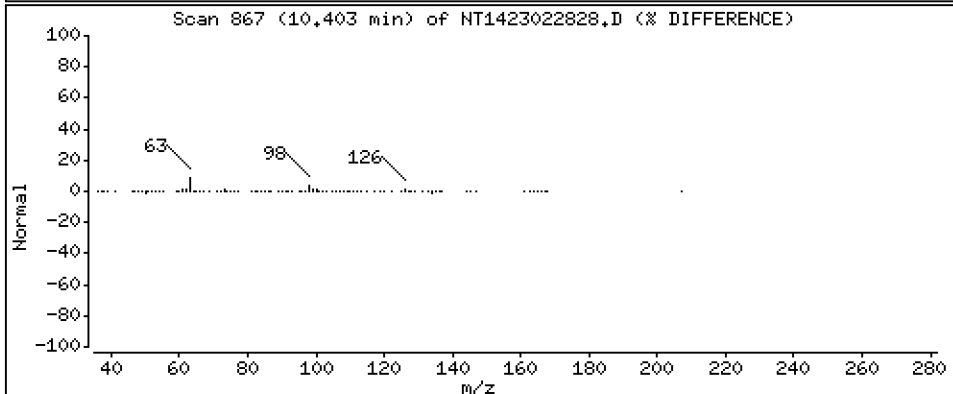
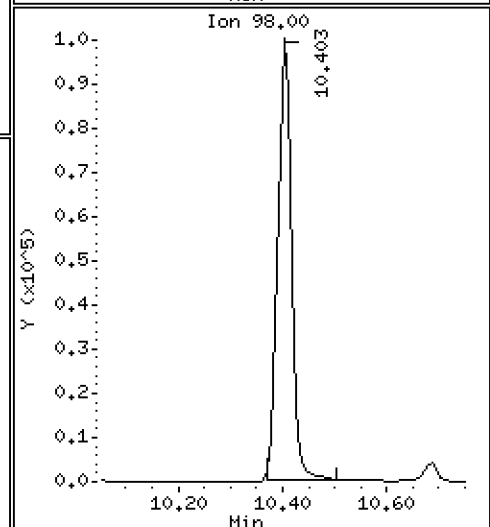
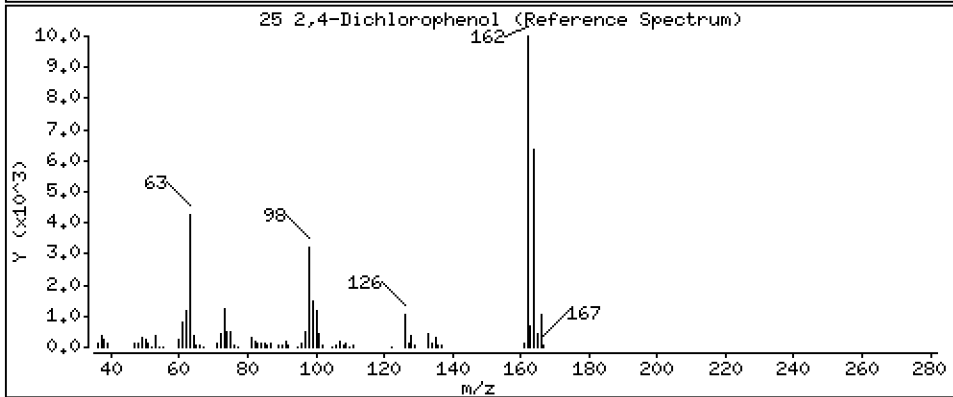
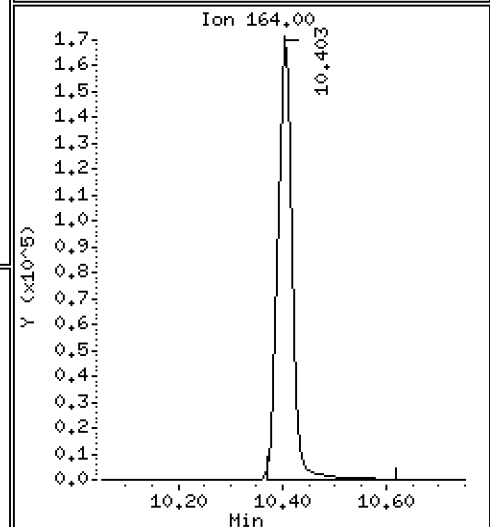
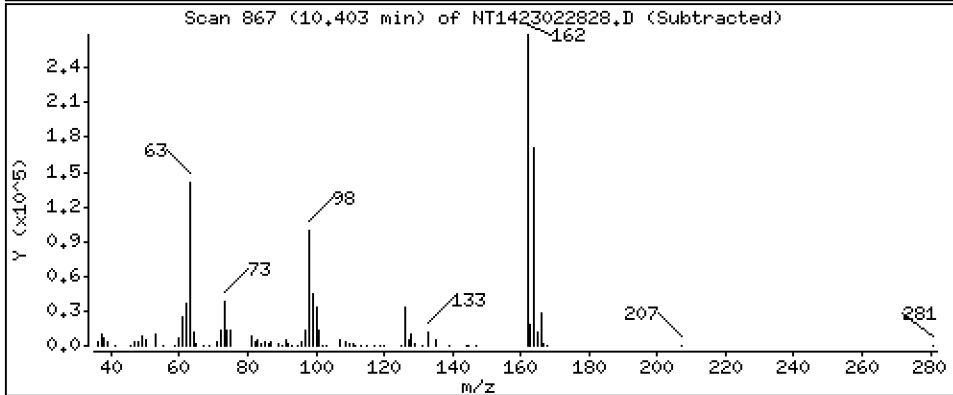
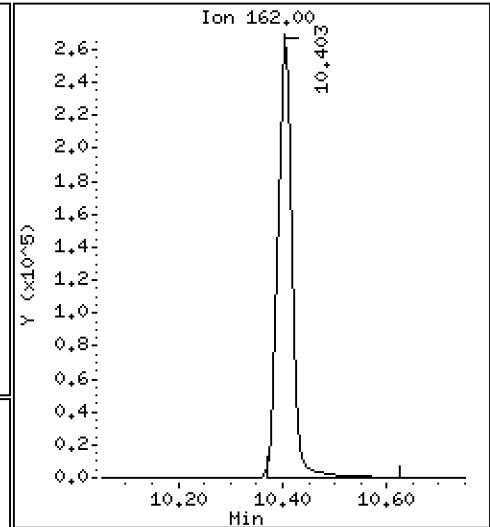
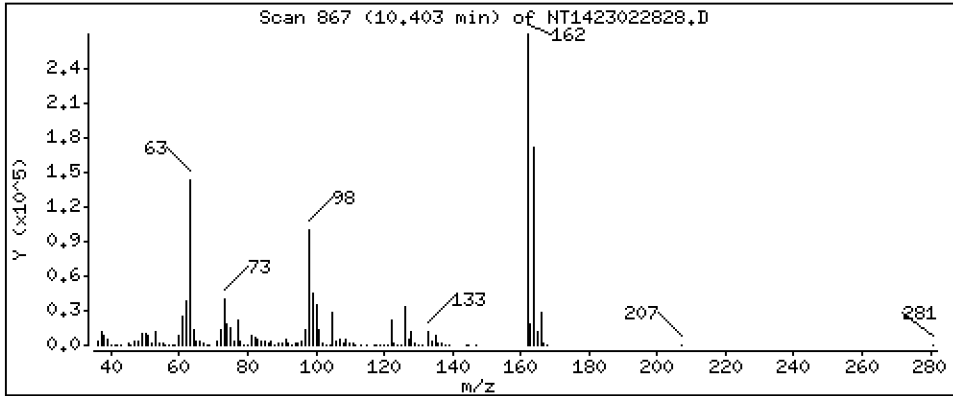
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 11,41 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

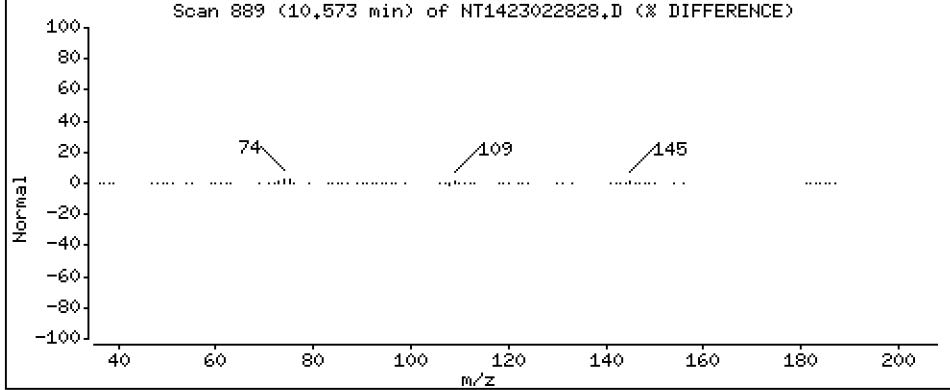
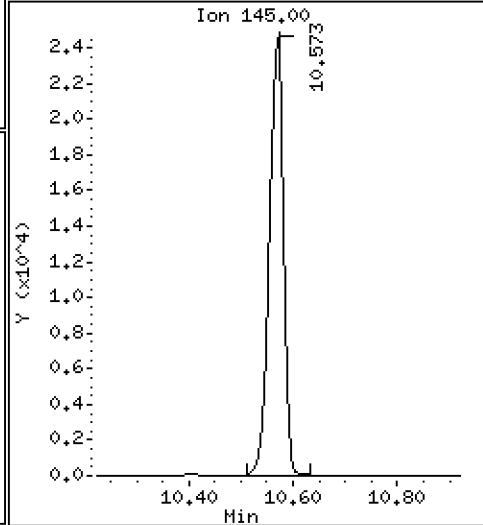
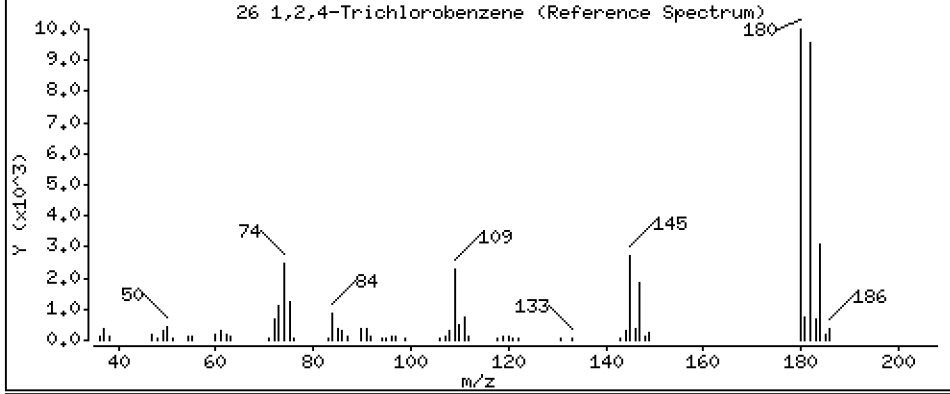
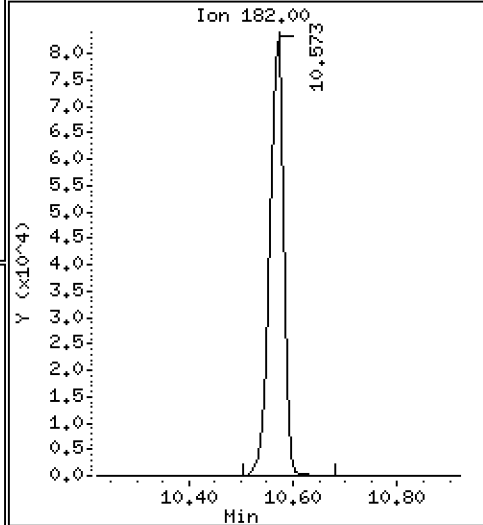
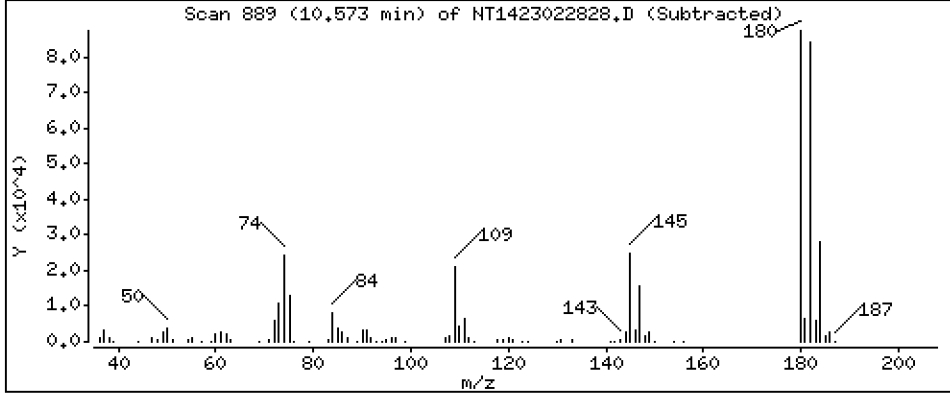
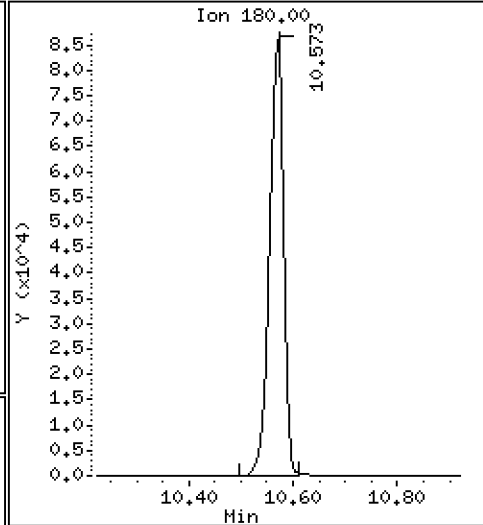
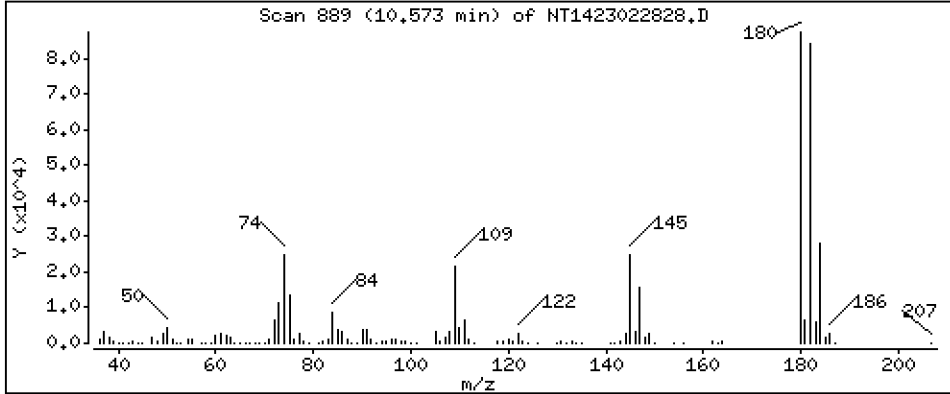
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 3,884 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

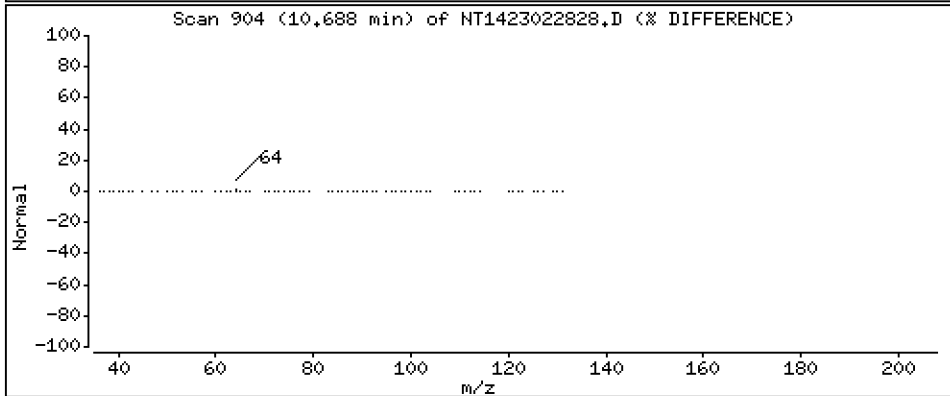
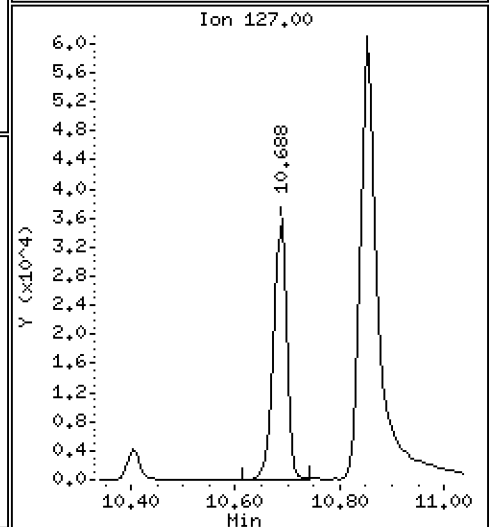
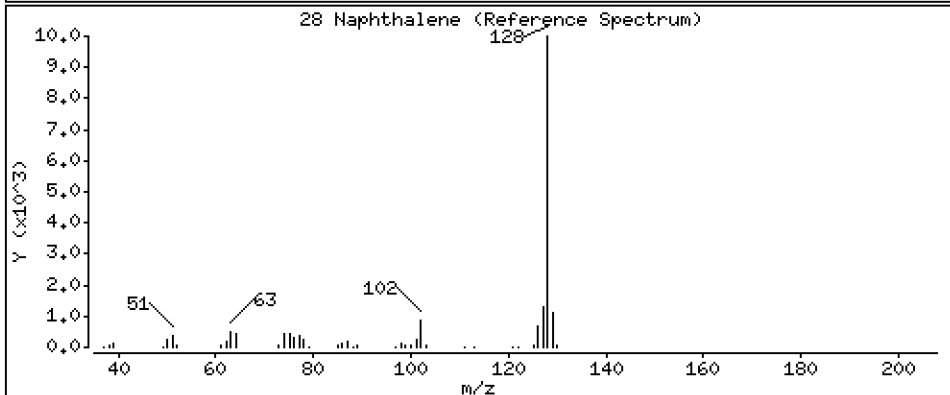
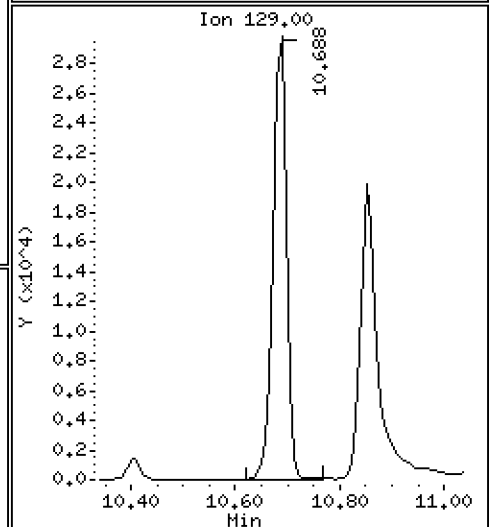
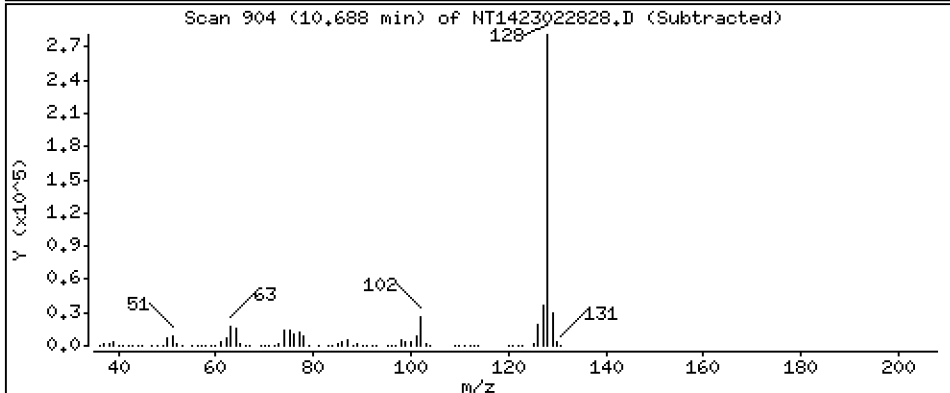
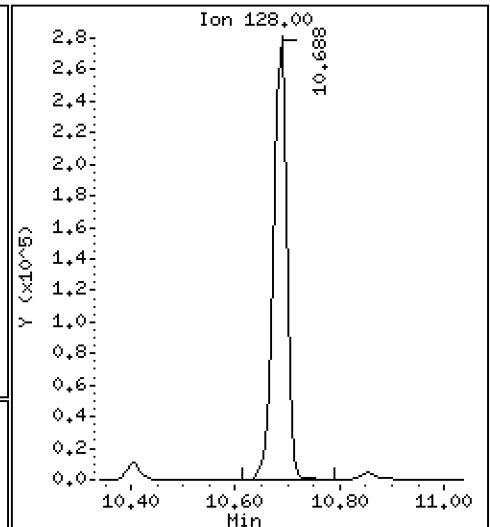
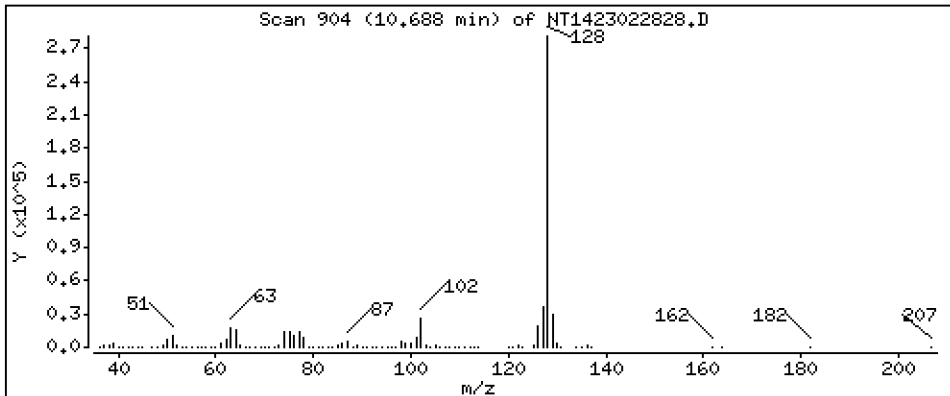
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 4,285 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

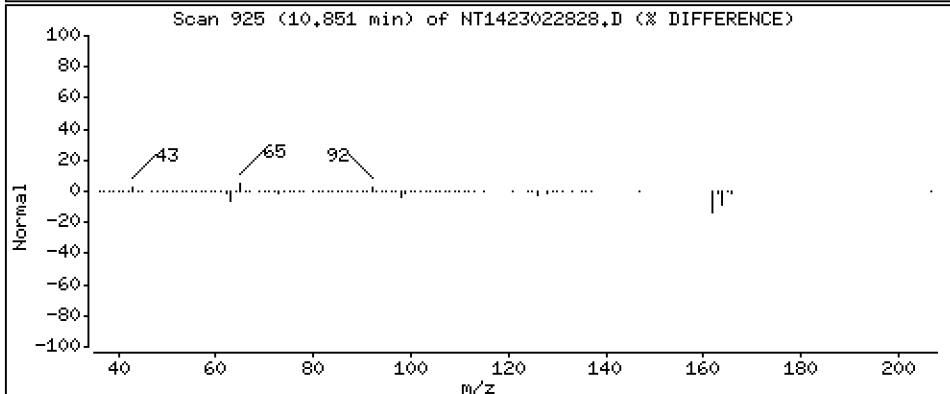
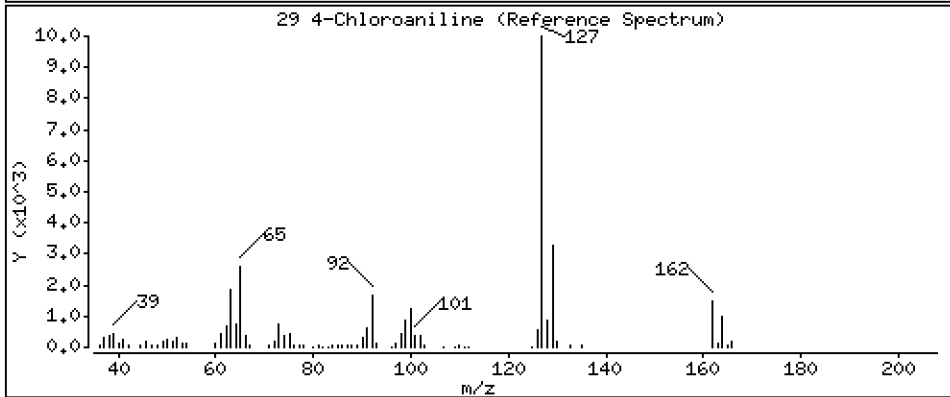
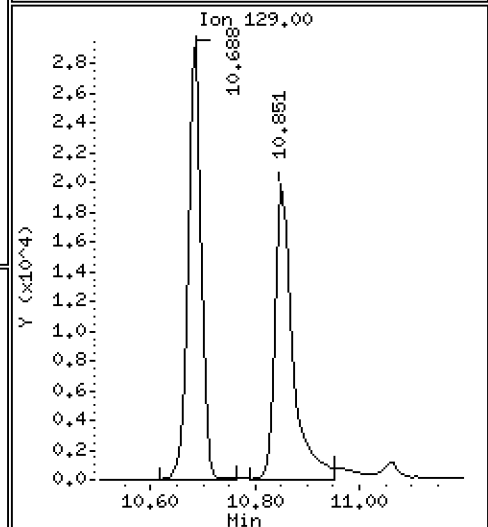
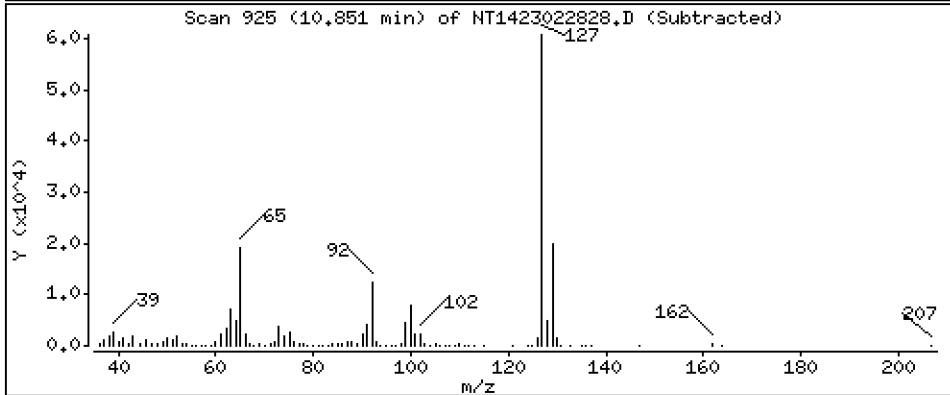
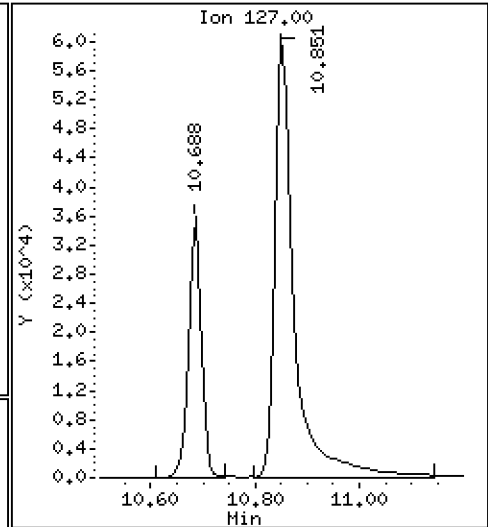
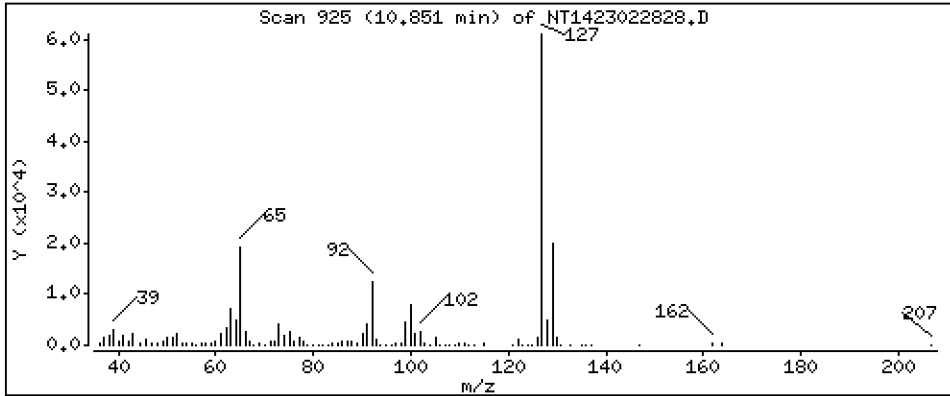
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

29 4-Chloroaniline

Concentration: 3,317 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

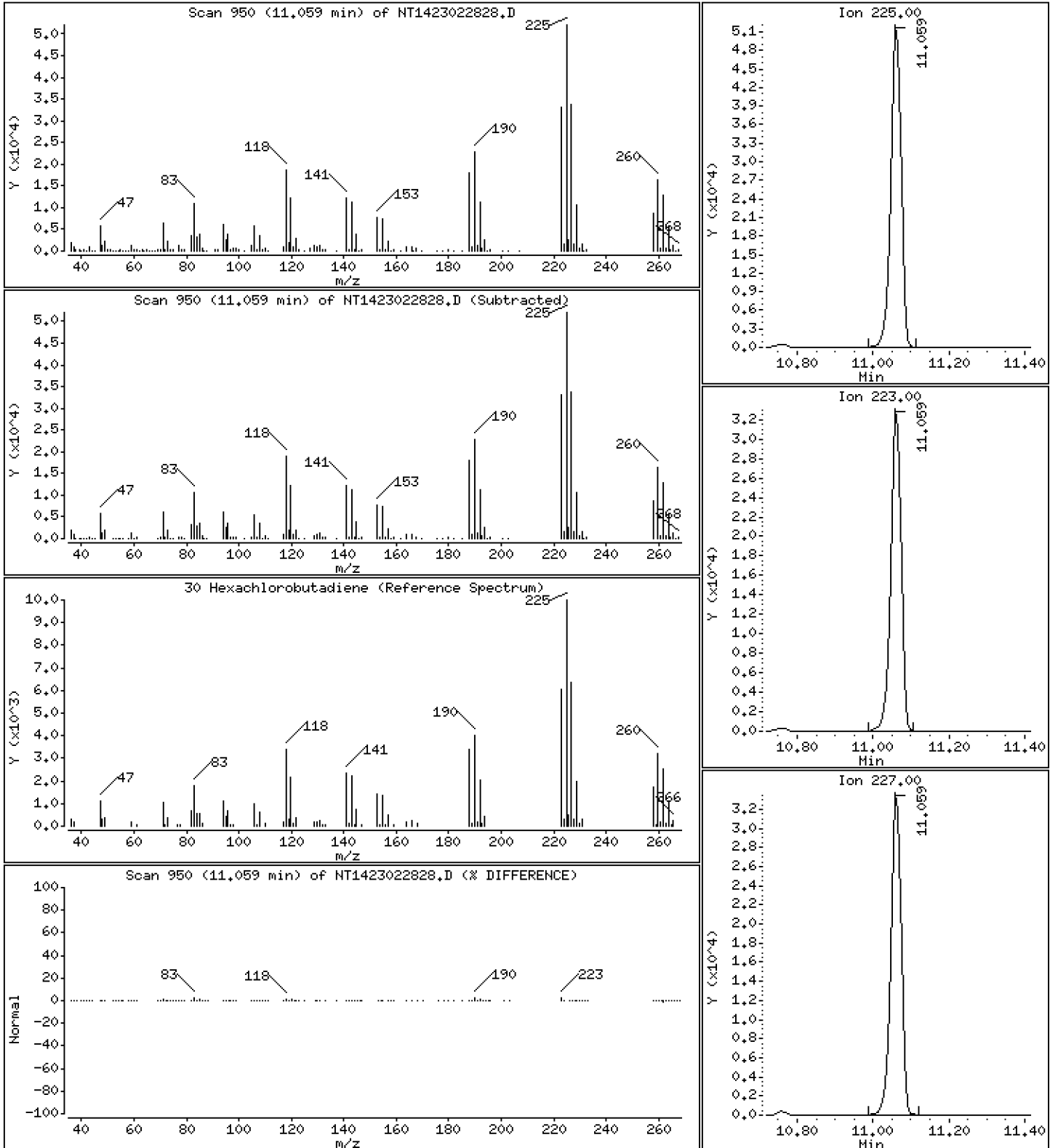
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 4,442 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

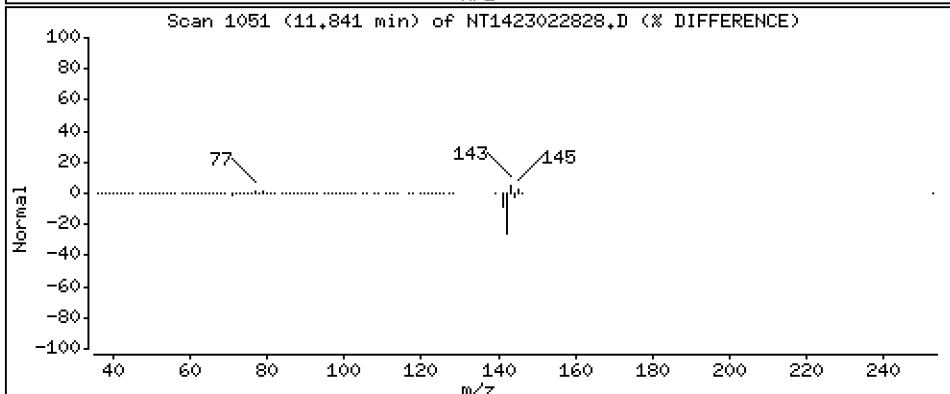
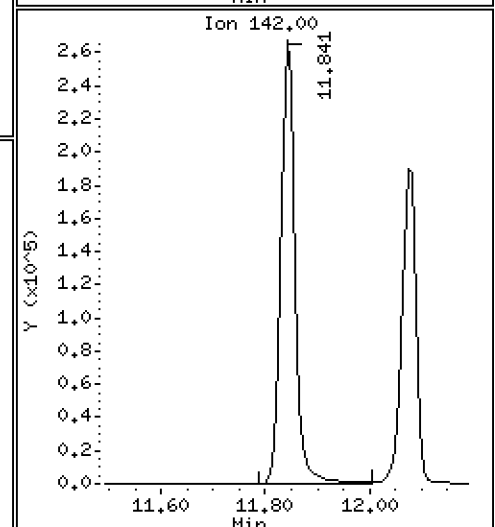
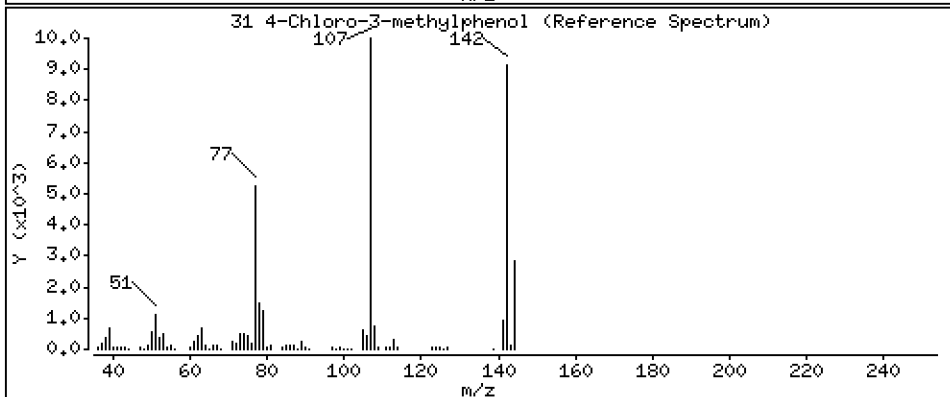
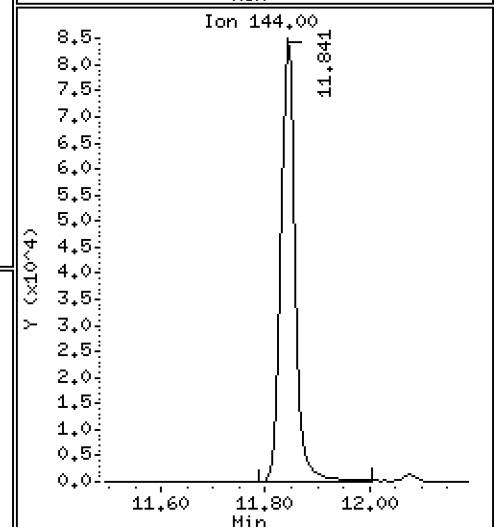
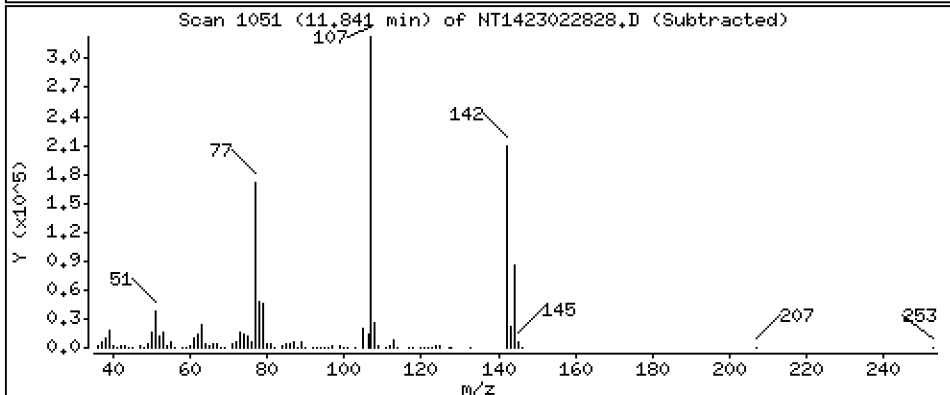
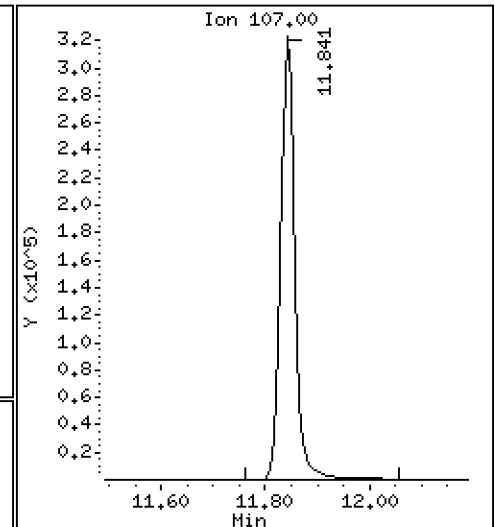
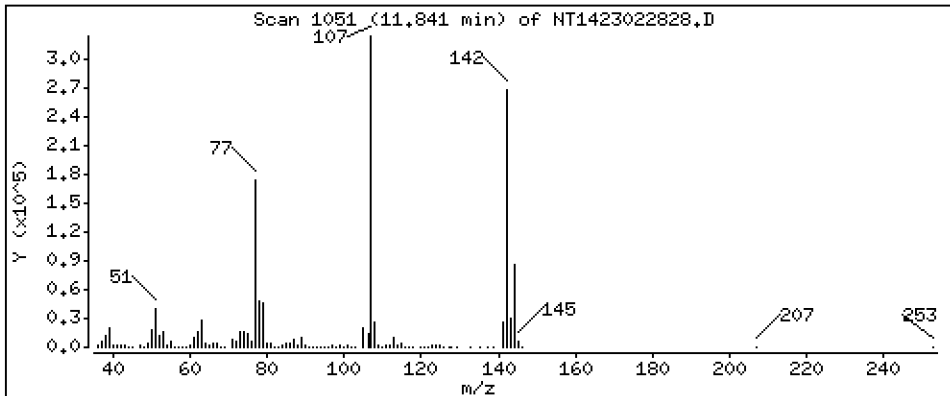
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

31 4-Chloro-3-methylphenol

Concentration: 18,38 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

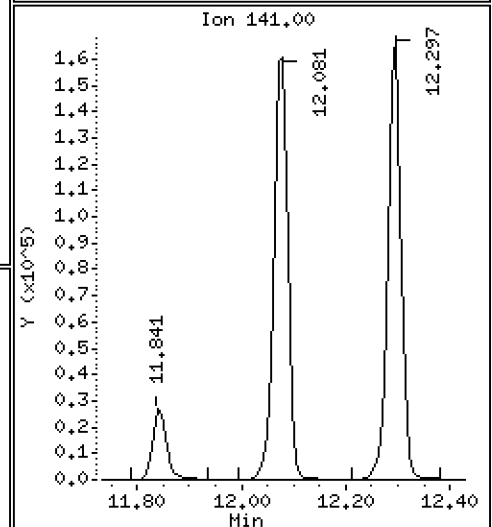
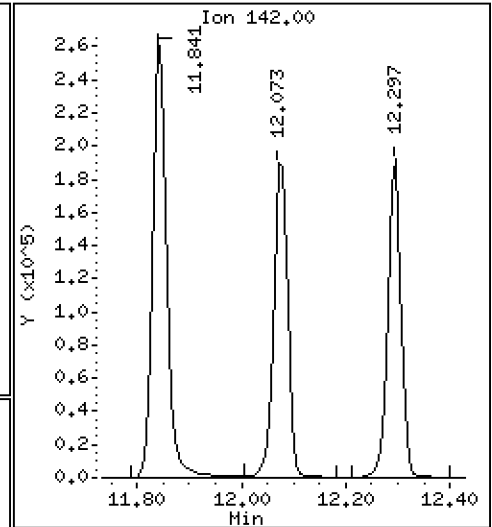
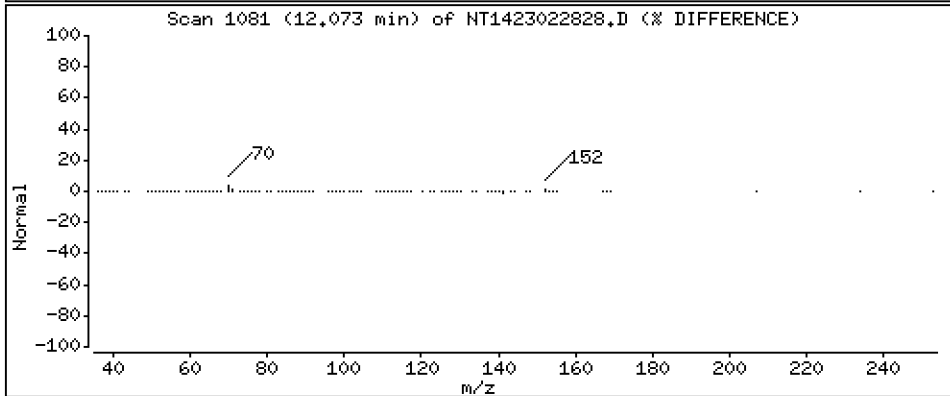
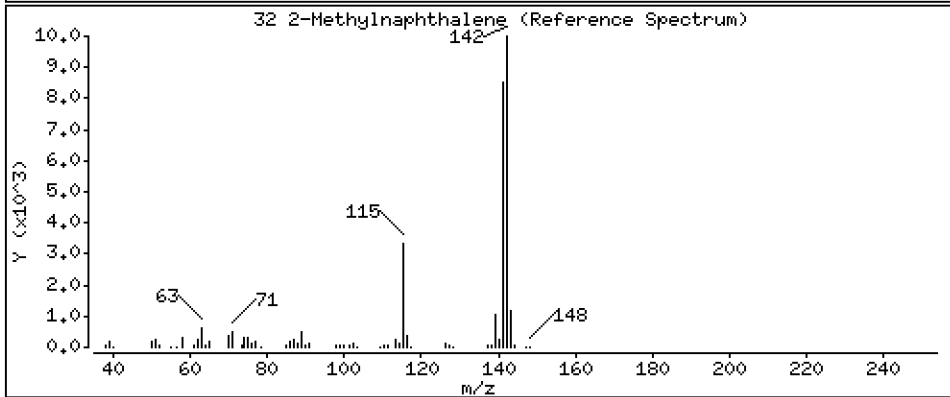
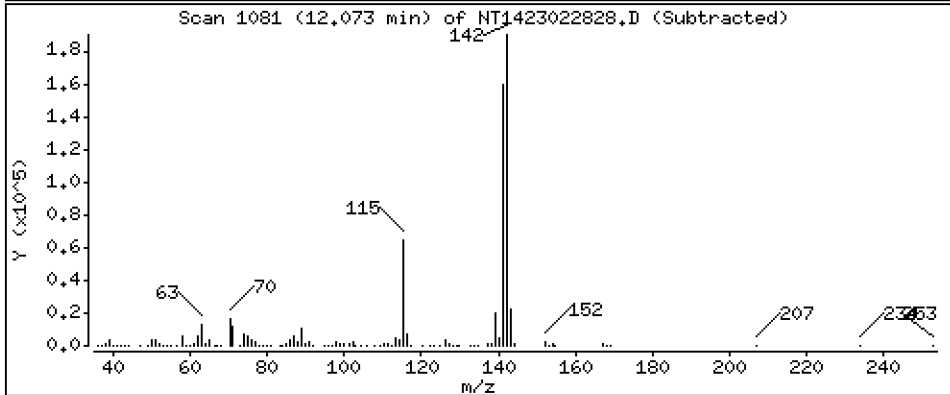
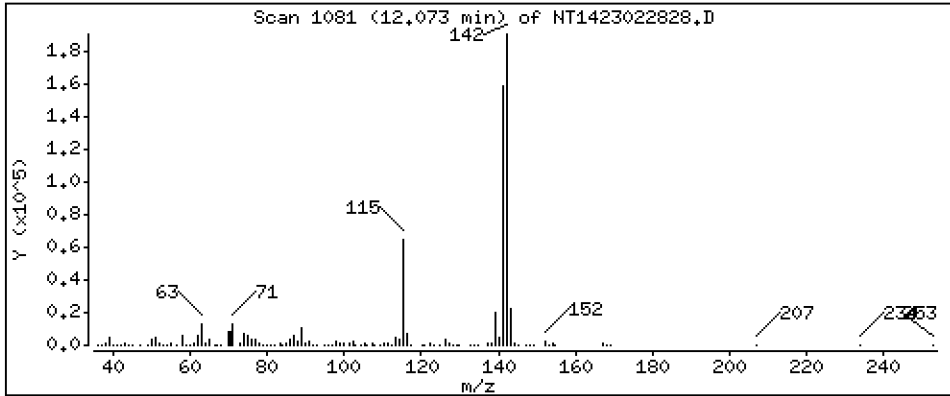
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 4,222 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

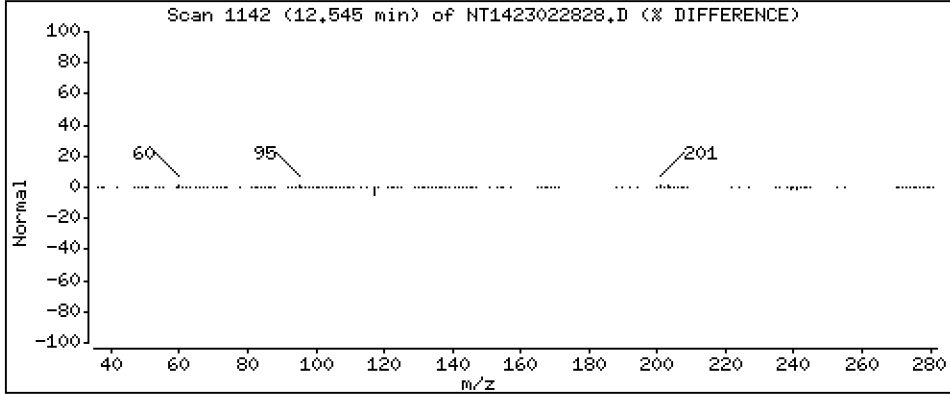
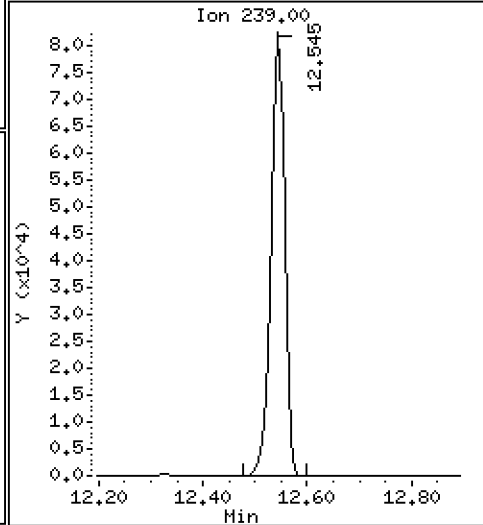
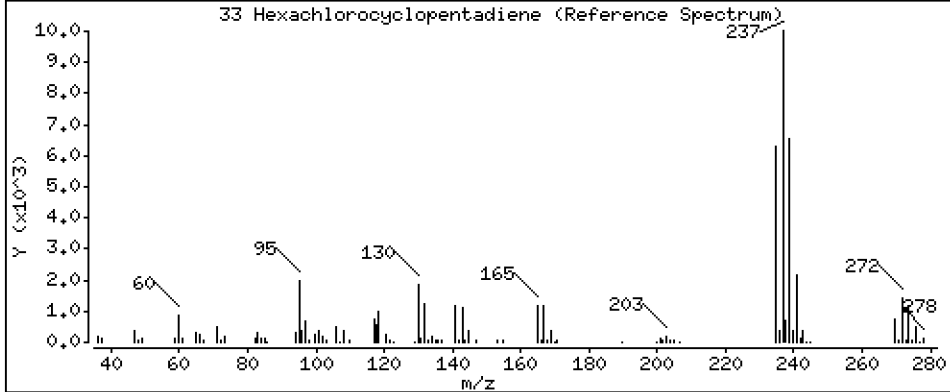
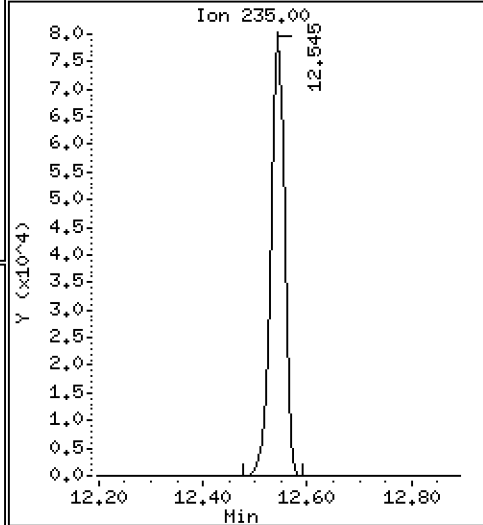
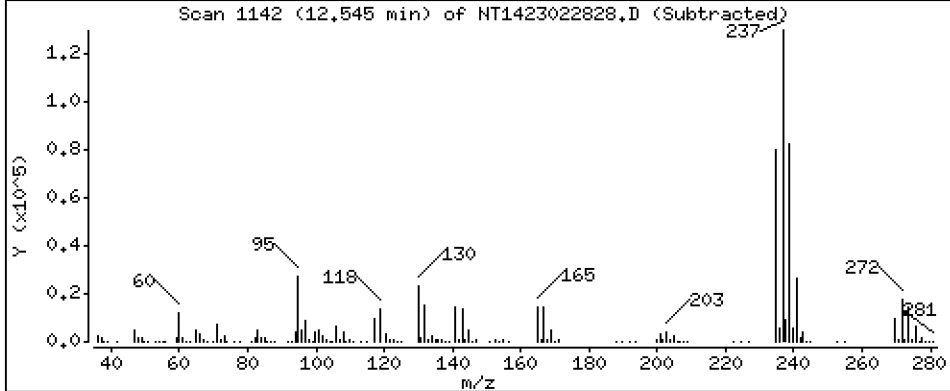
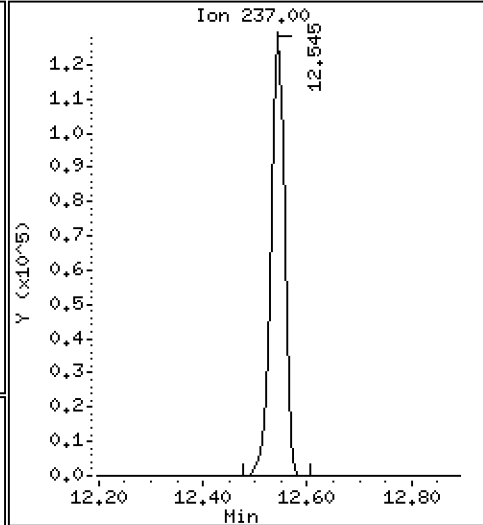
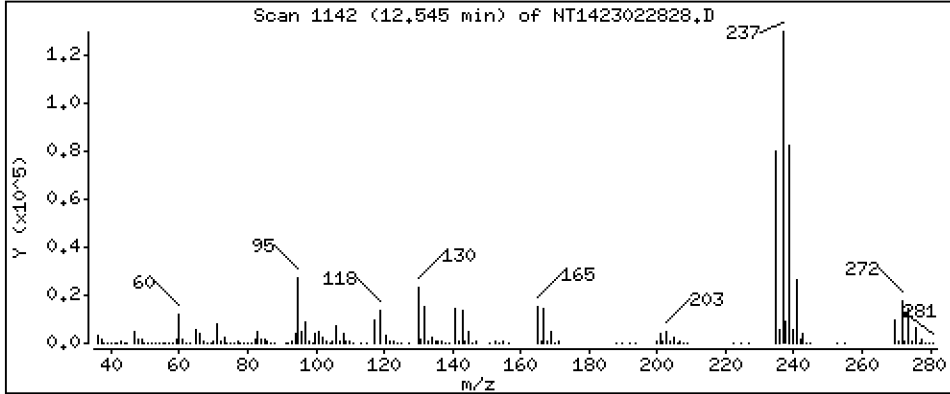
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

33 Hexachlorocyclopentadiene

Concentration: 8,698 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

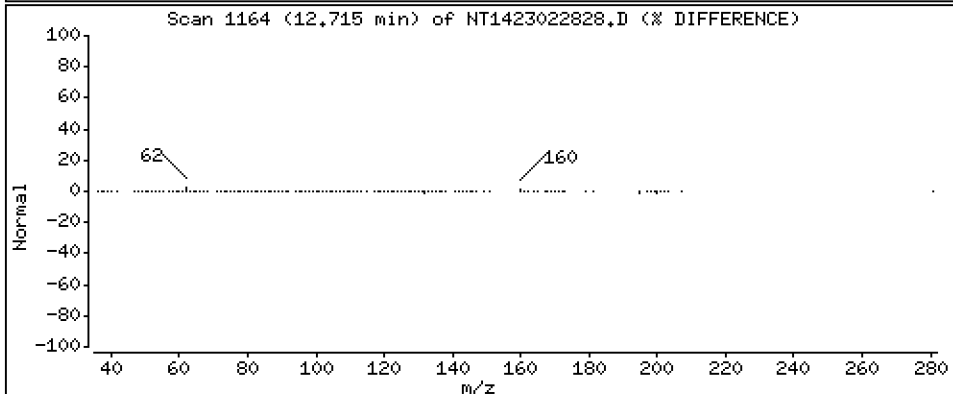
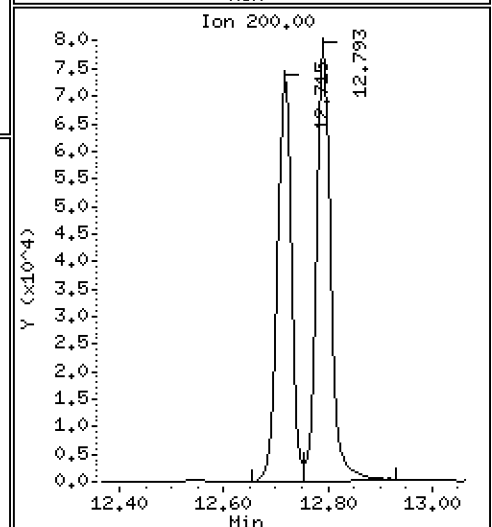
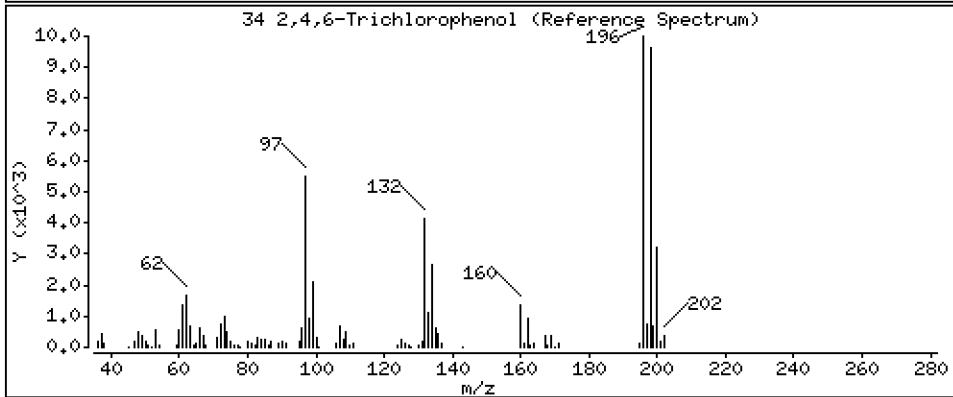
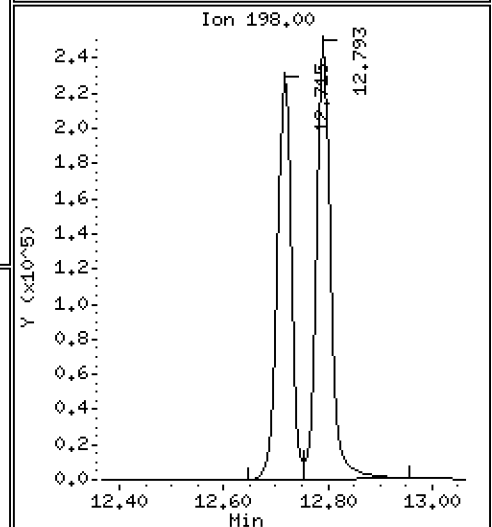
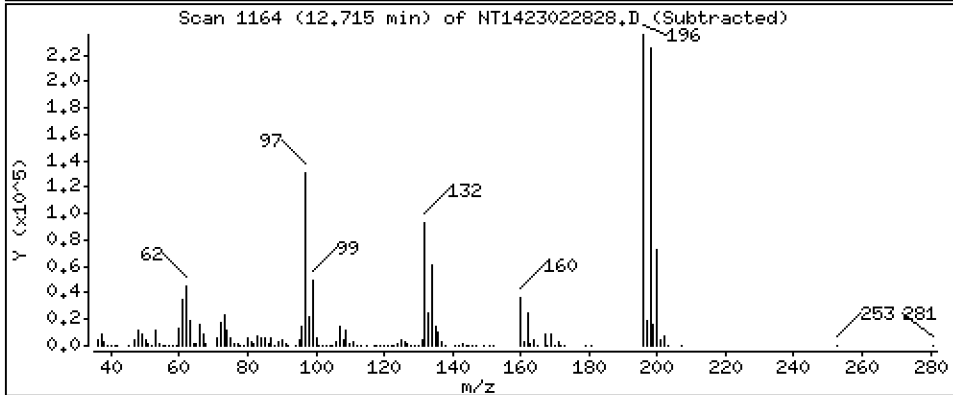
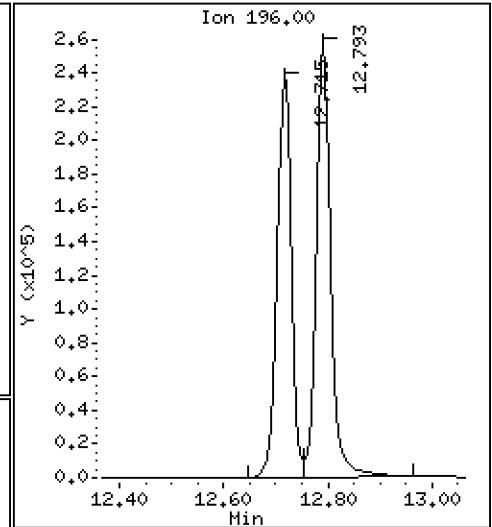
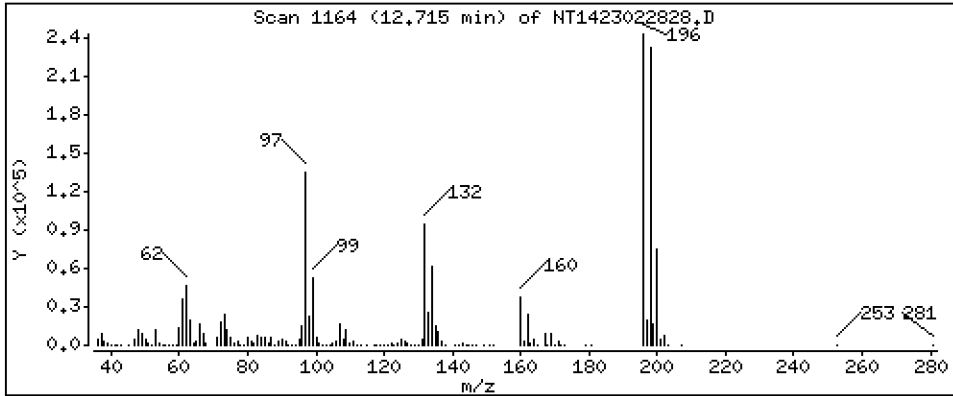
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

34 2,4,6-Trichlorophenol

Concentration: 18,23 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

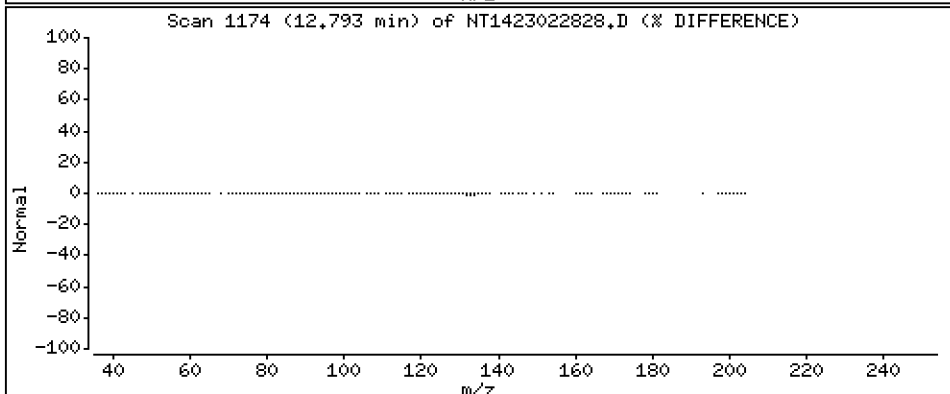
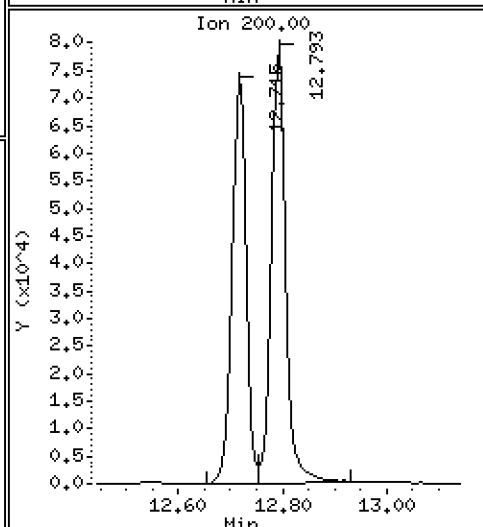
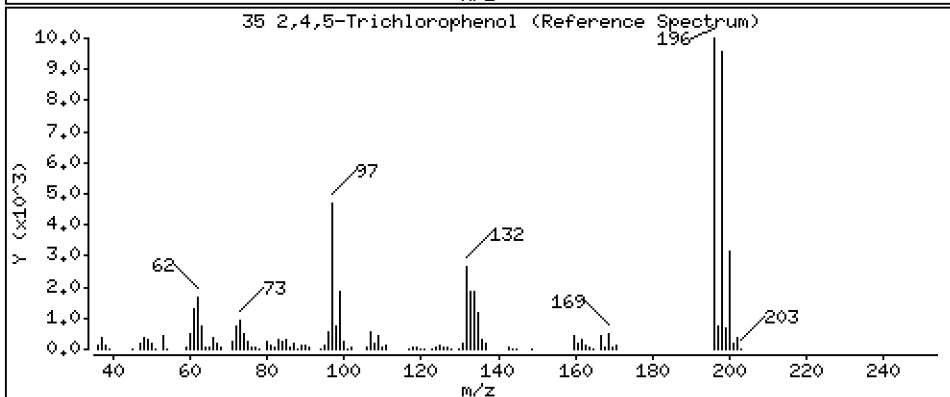
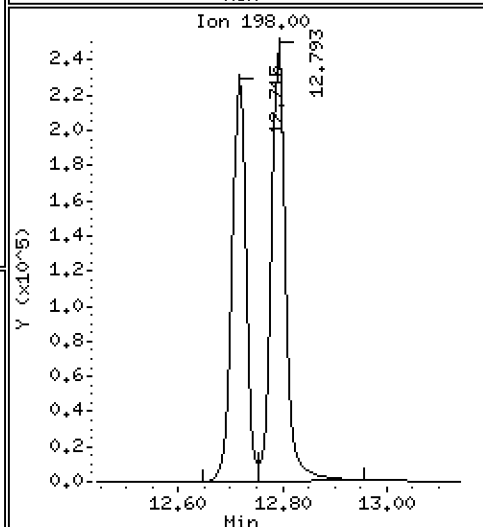
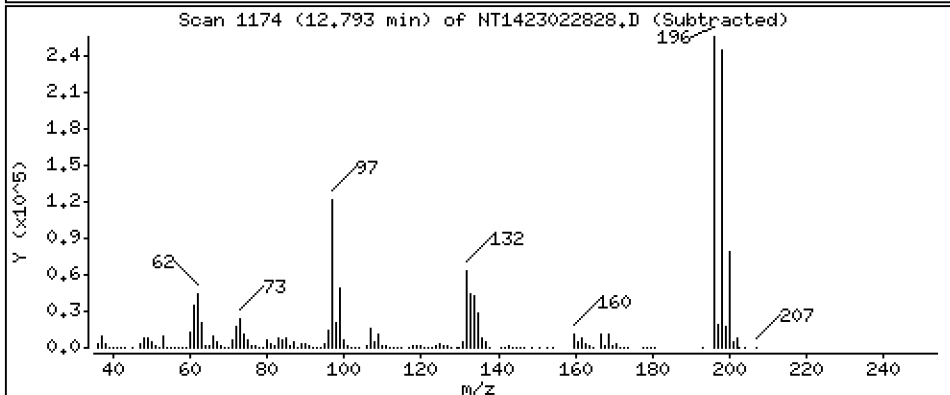
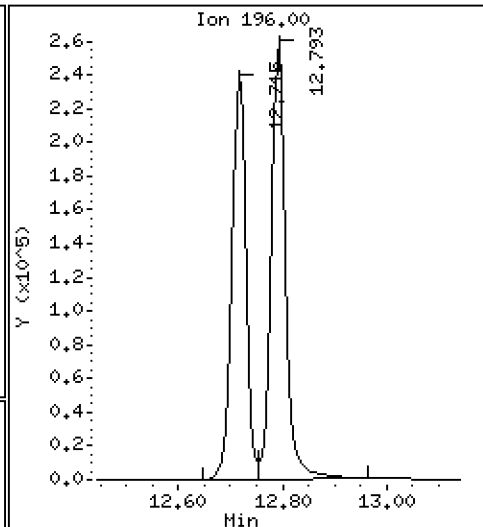
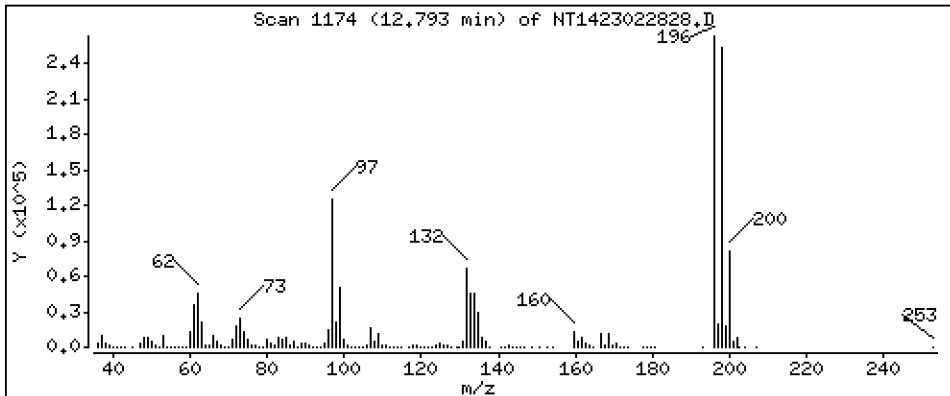
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

35 2,4,5-Trichlorophenol

Concentration: 18,36 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

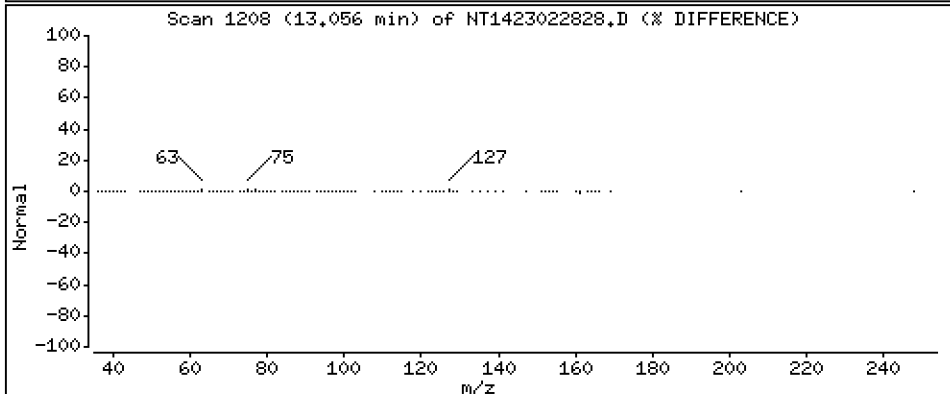
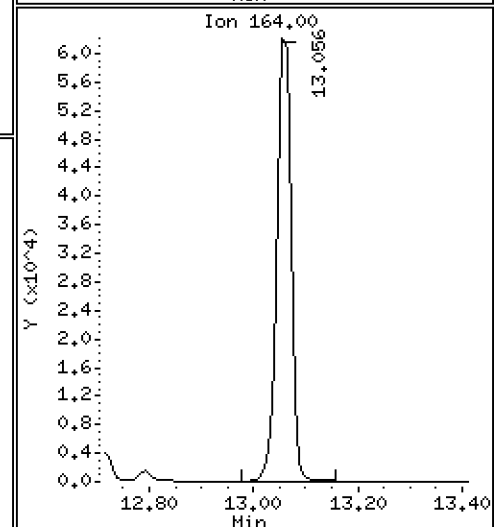
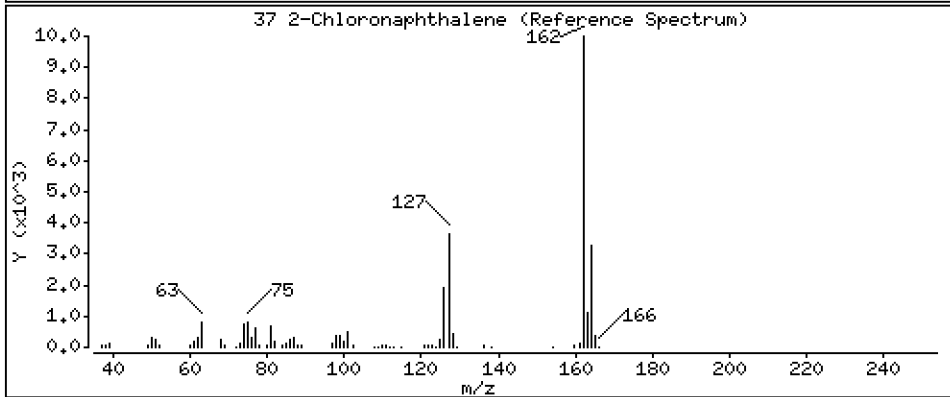
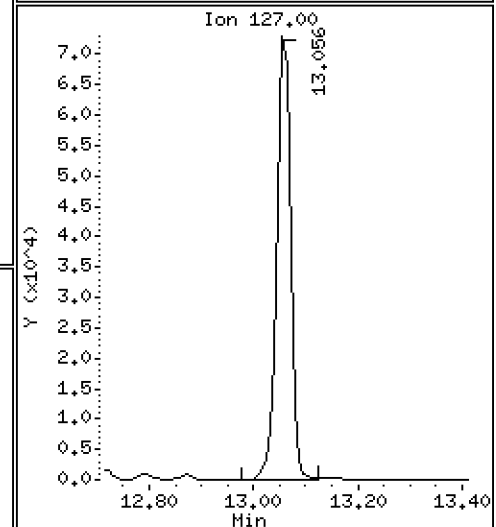
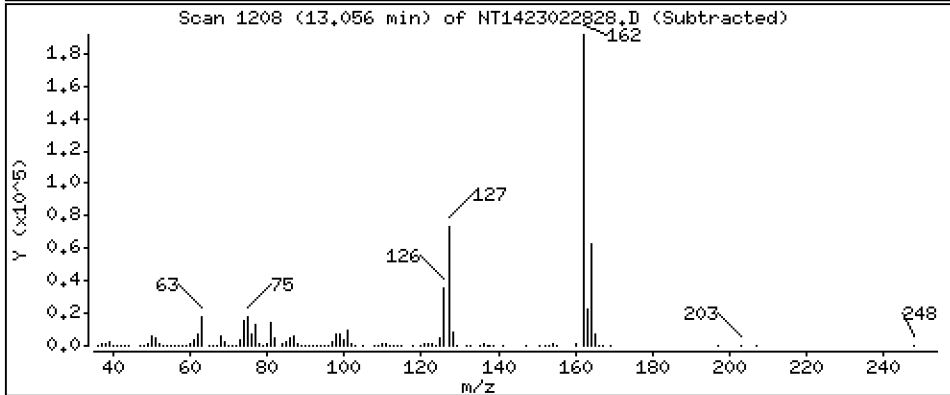
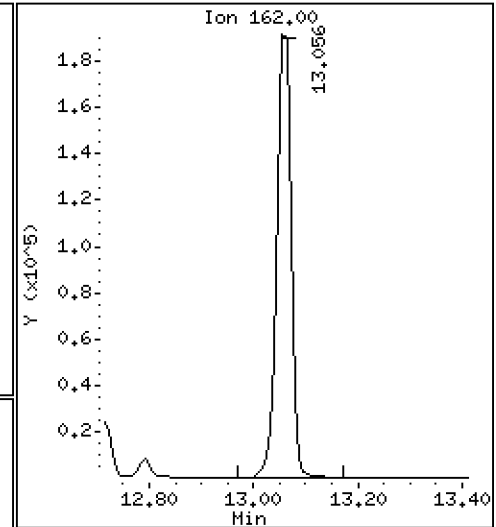
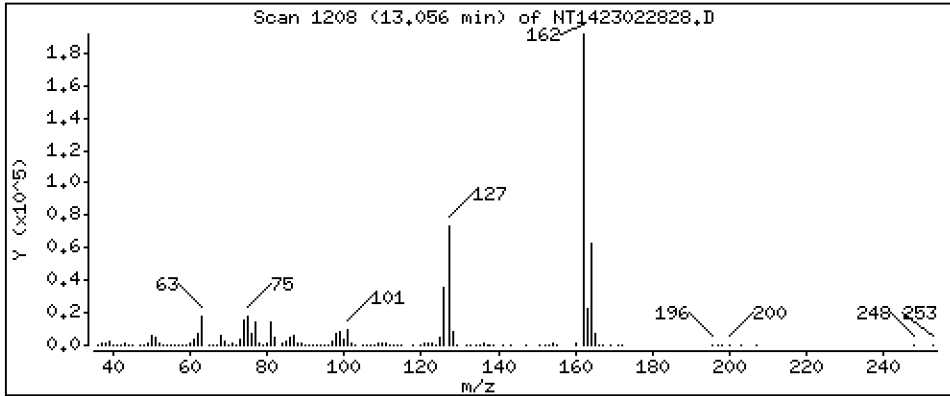
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

37 2-Chloronaphthalene

Concentration: 4,611 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

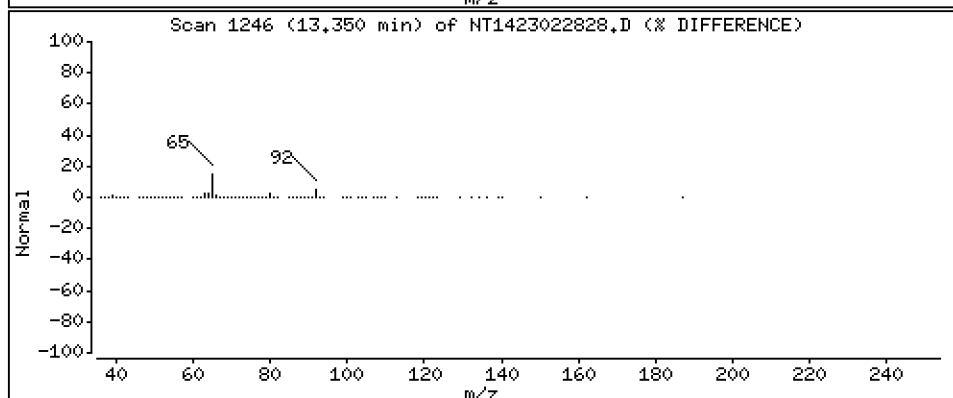
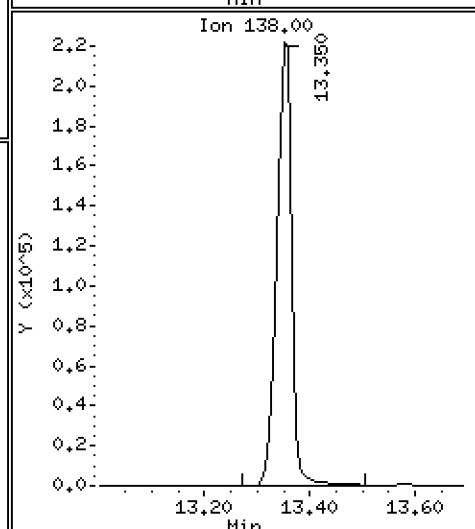
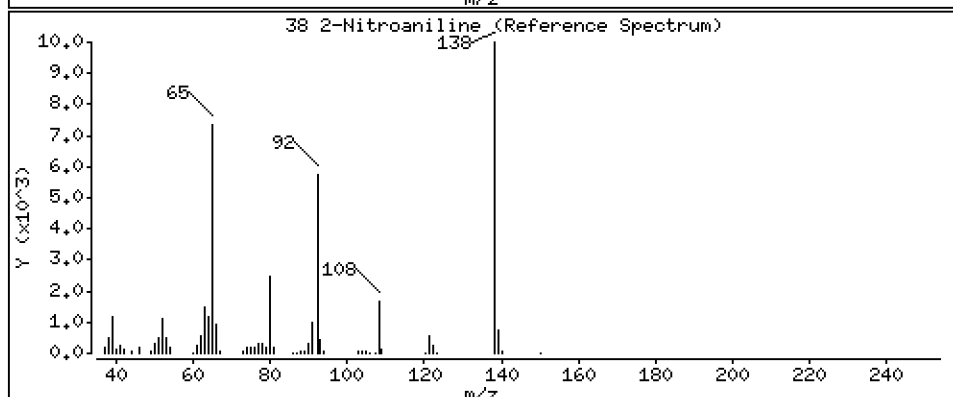
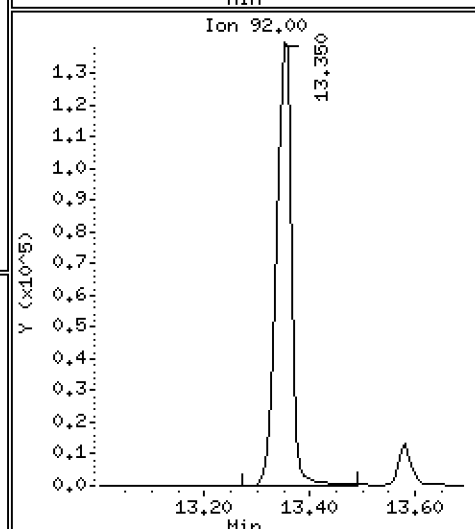
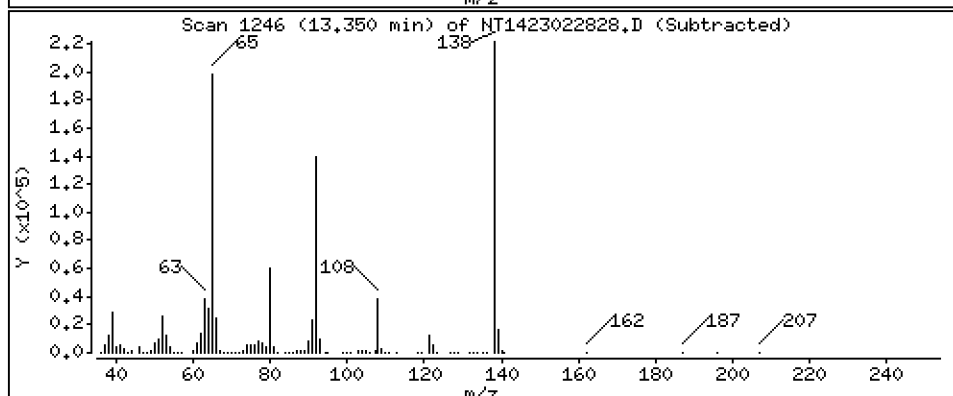
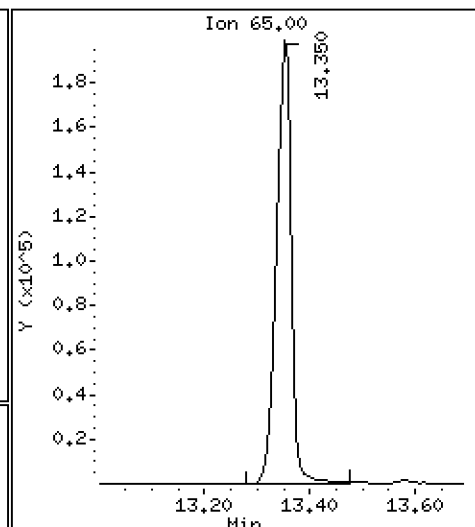
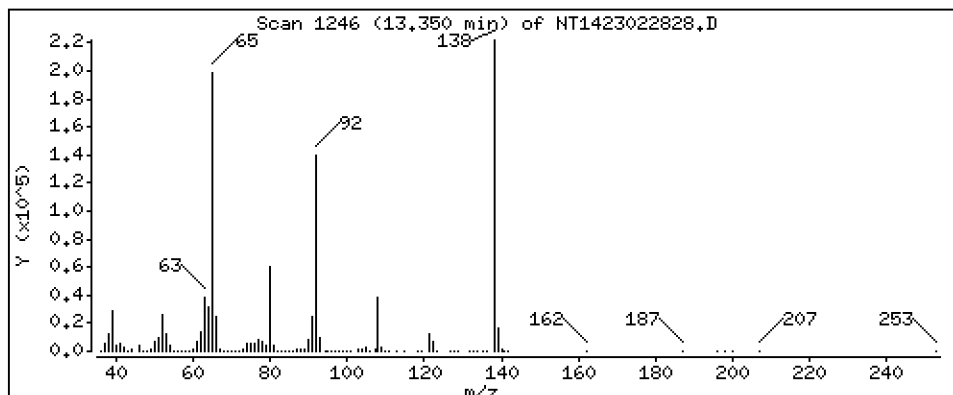
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

38 2-Nitroaniline

Concentration: 19,08 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

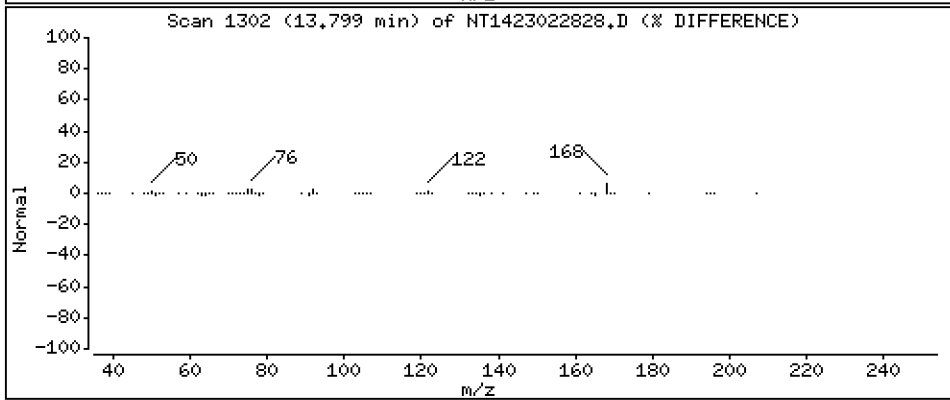
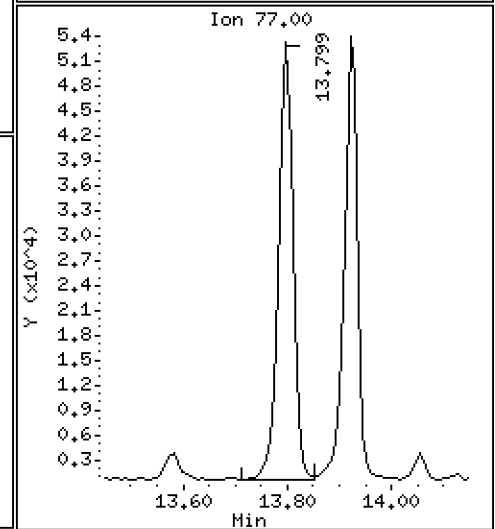
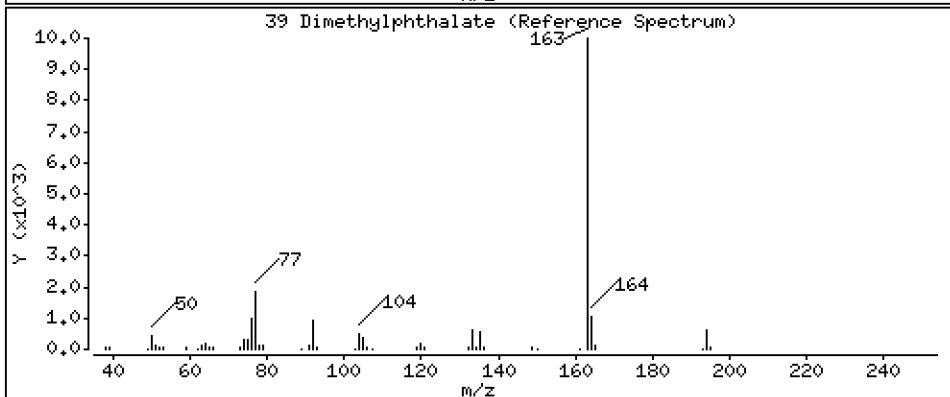
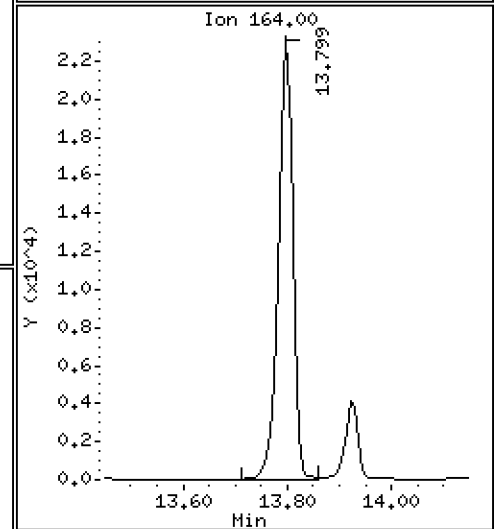
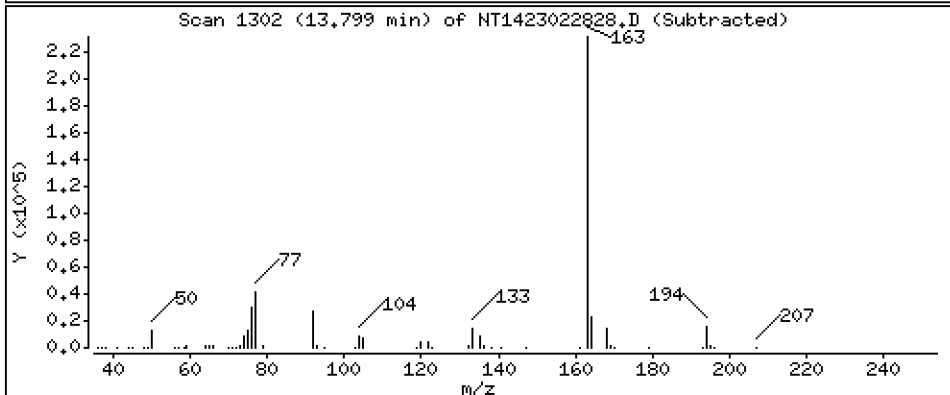
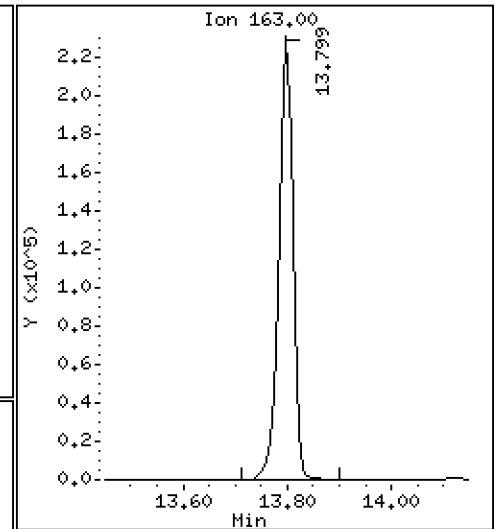
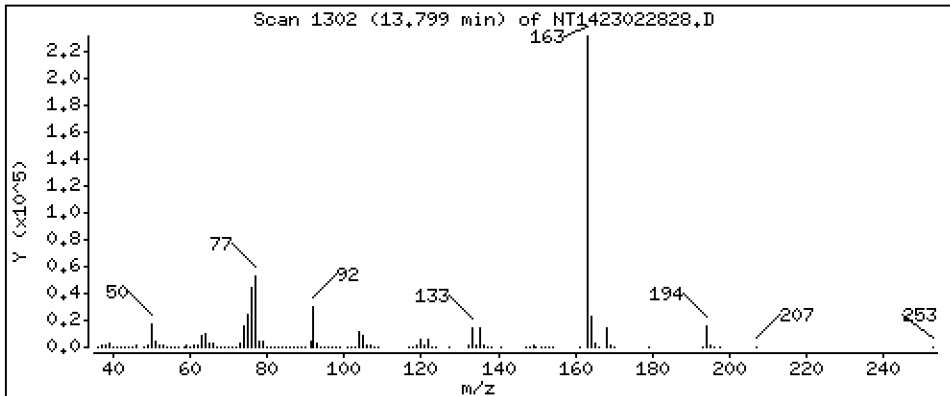
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 5,393 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

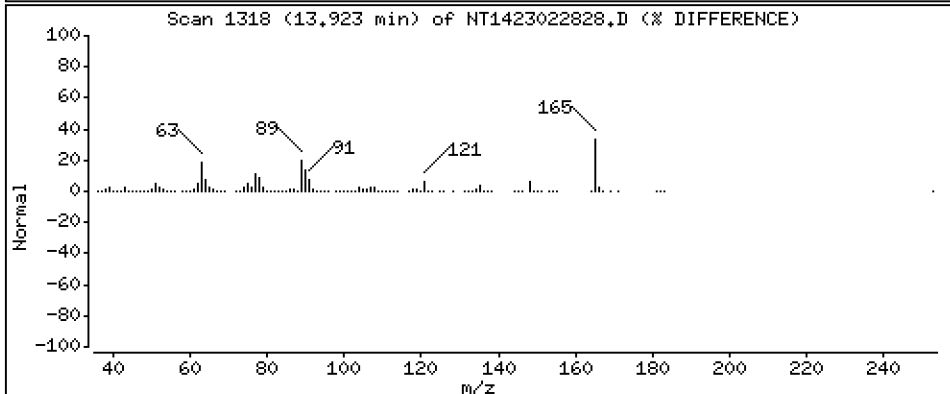
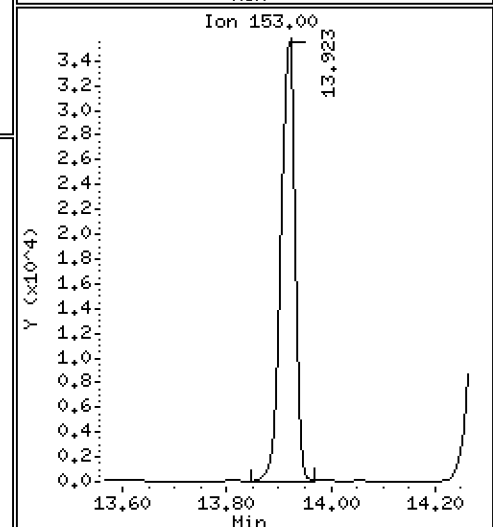
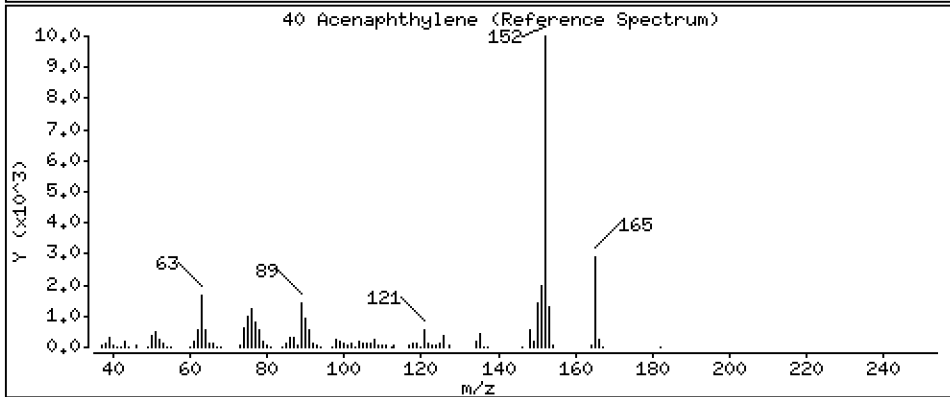
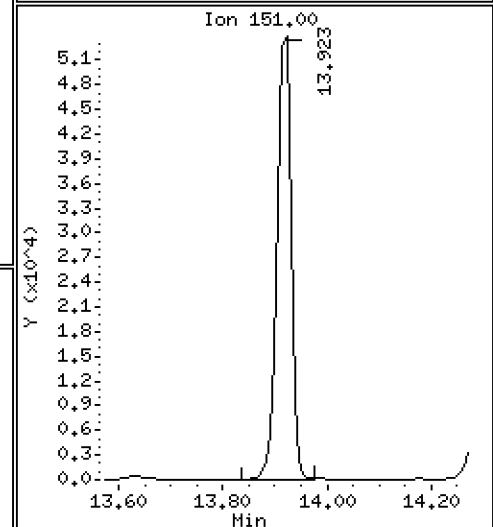
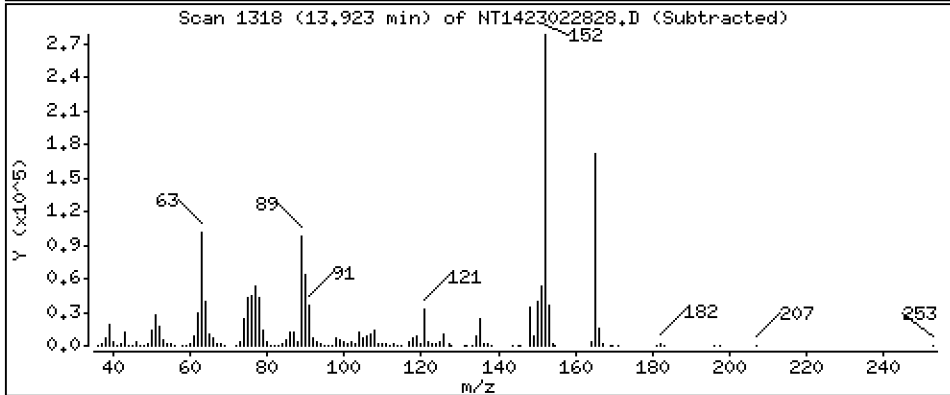
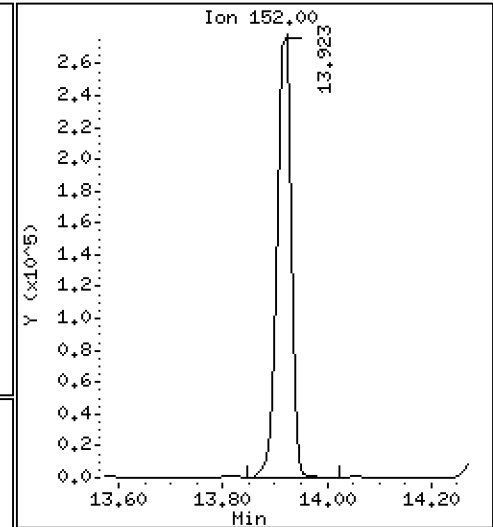
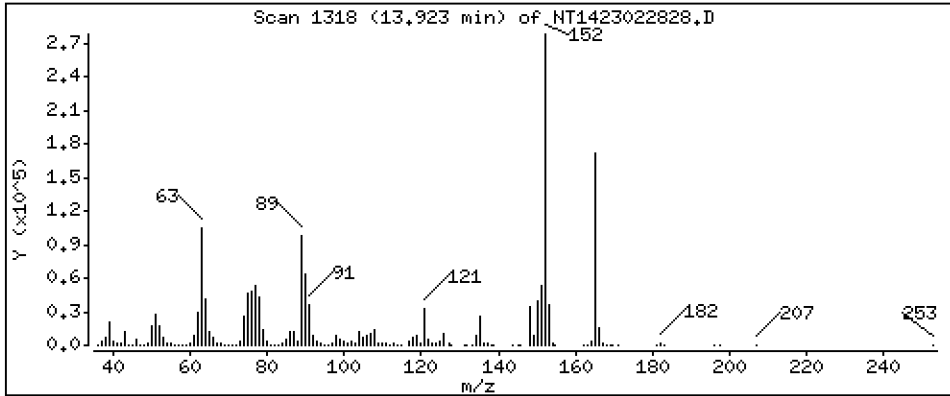
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 4,468 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

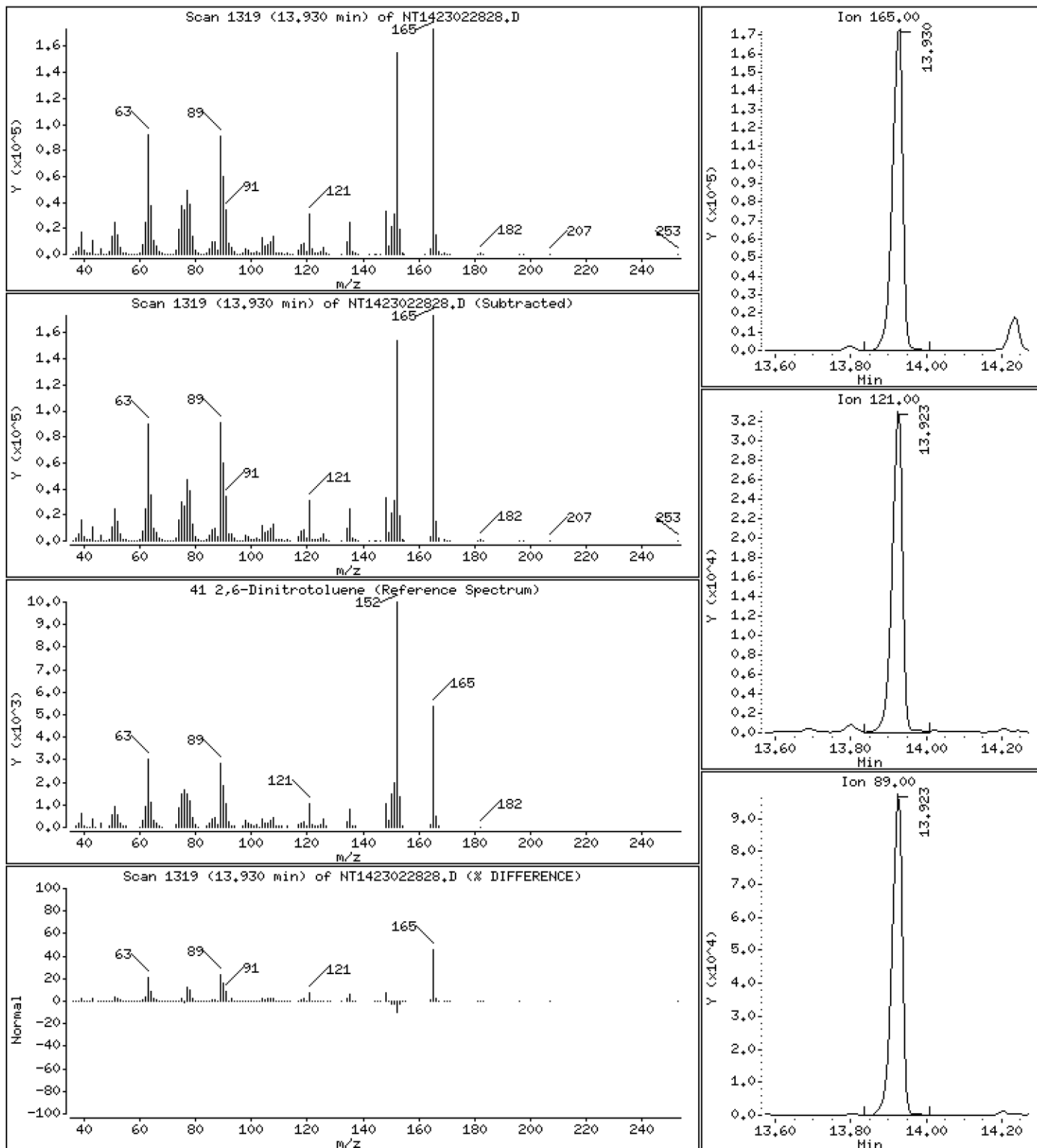
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

41 2,6-Dinitrotoluene

Concentration: 17,78 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

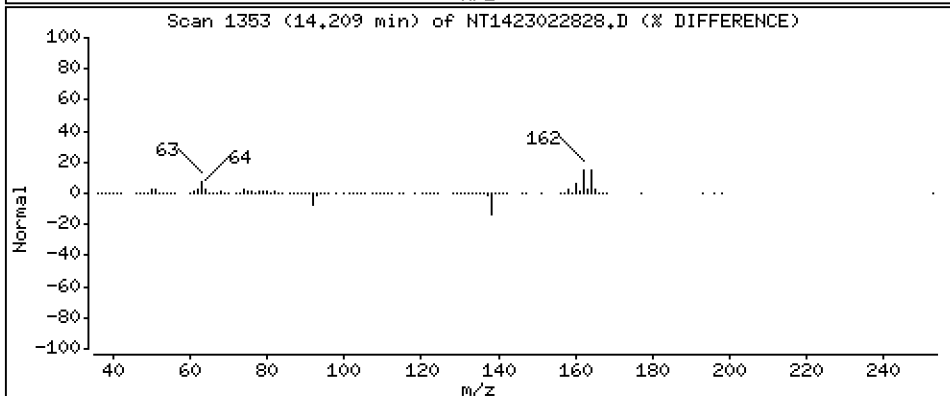
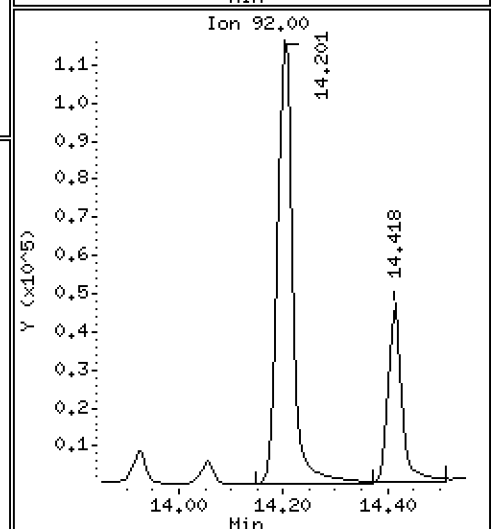
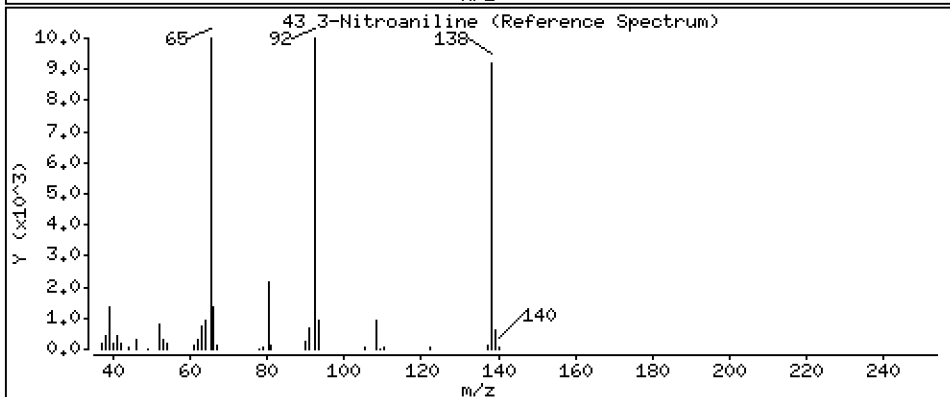
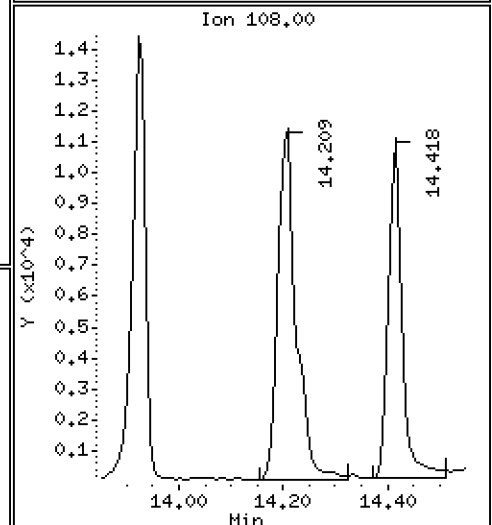
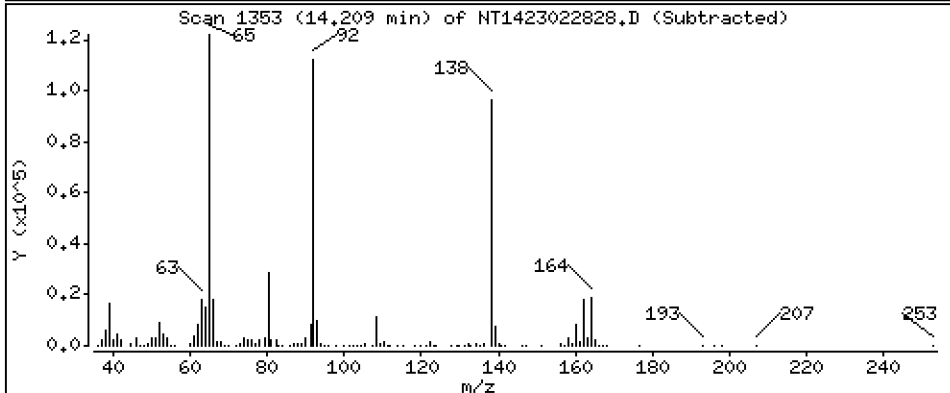
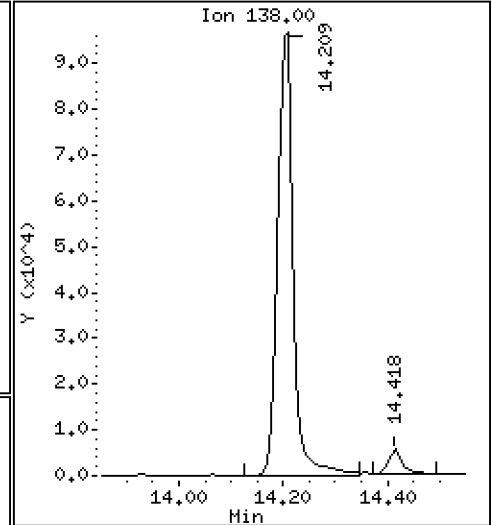
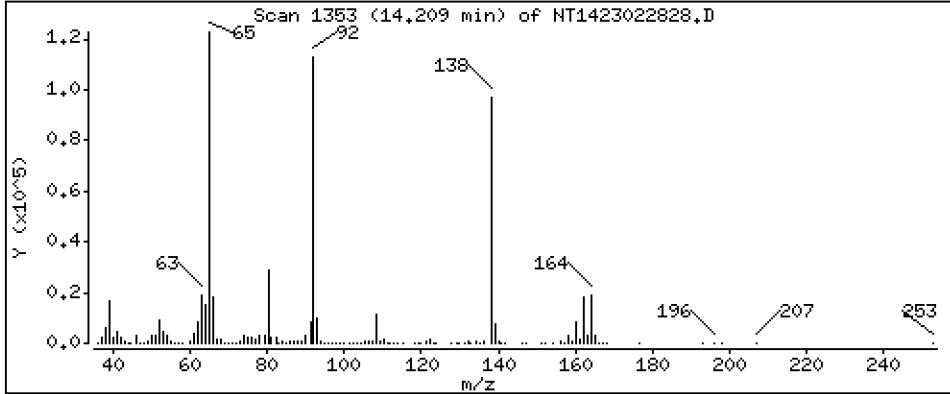
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

43 3-Nitroaniline

Concentration: 10,58 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

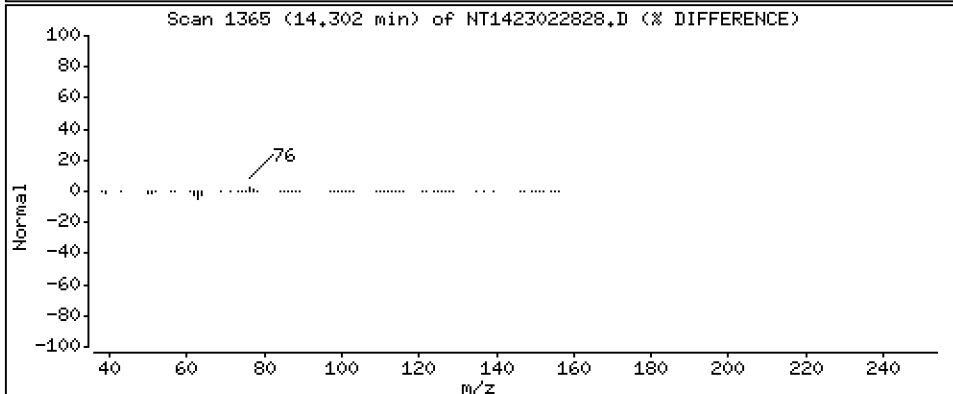
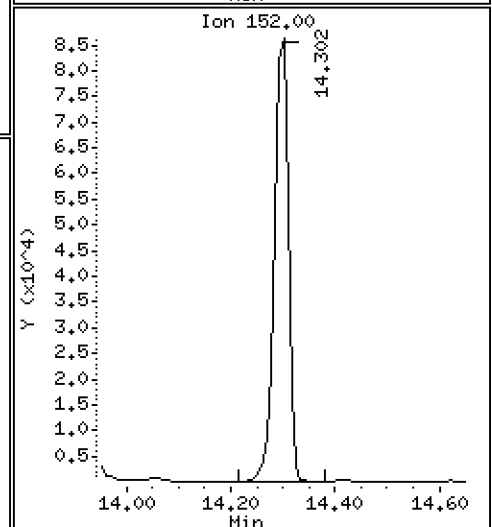
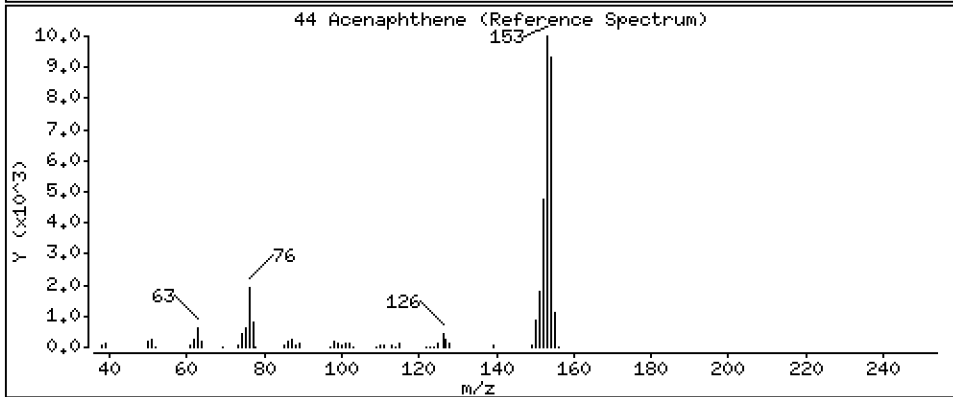
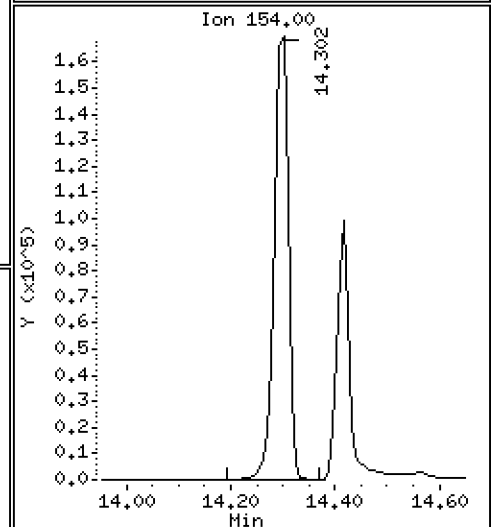
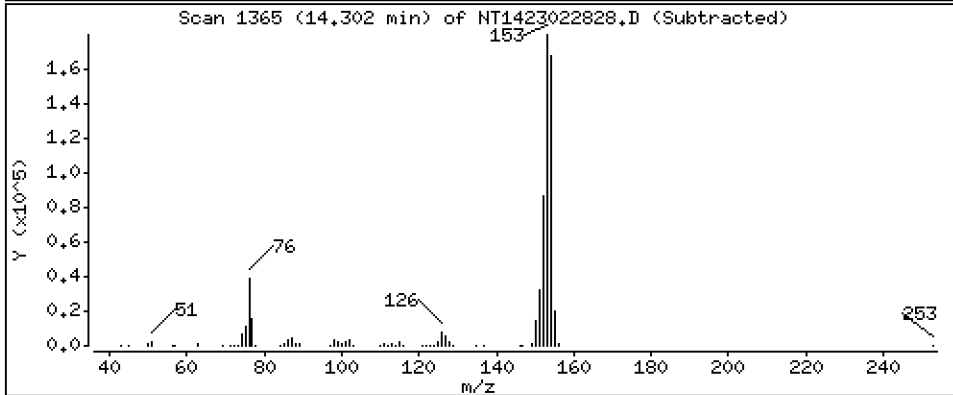
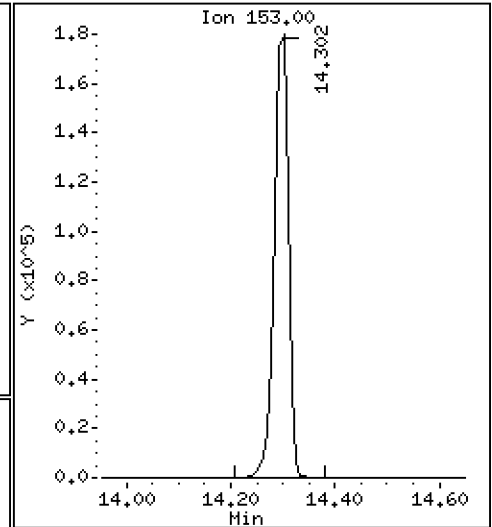
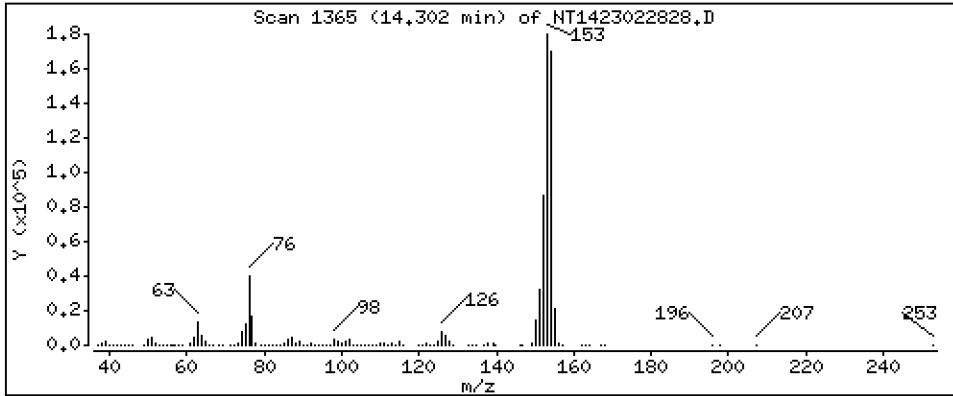
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 4,578 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

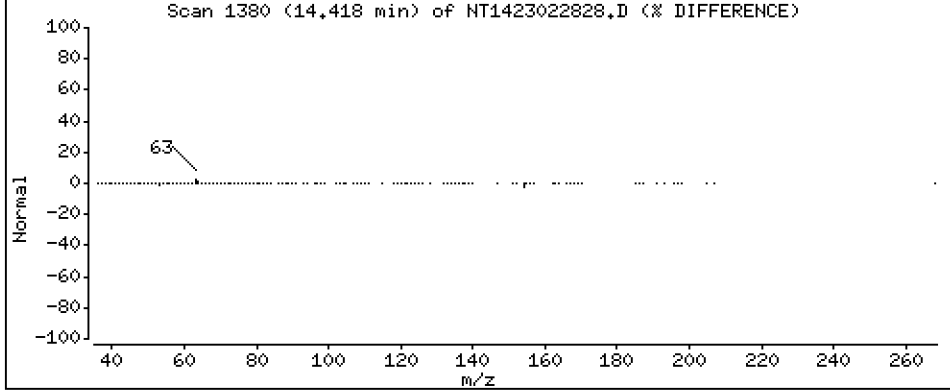
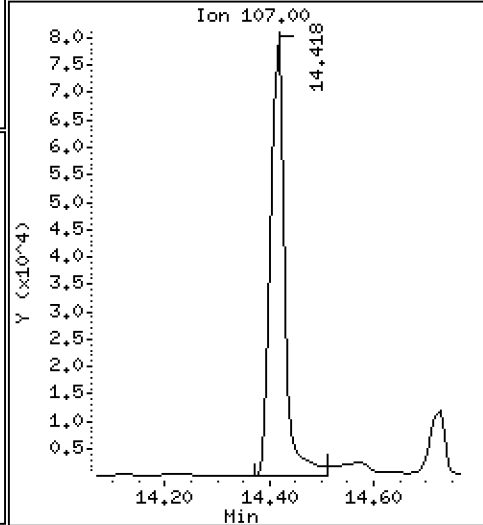
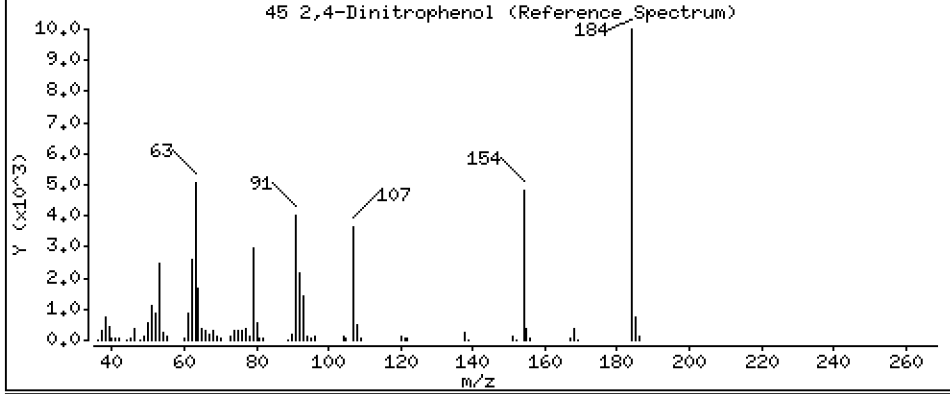
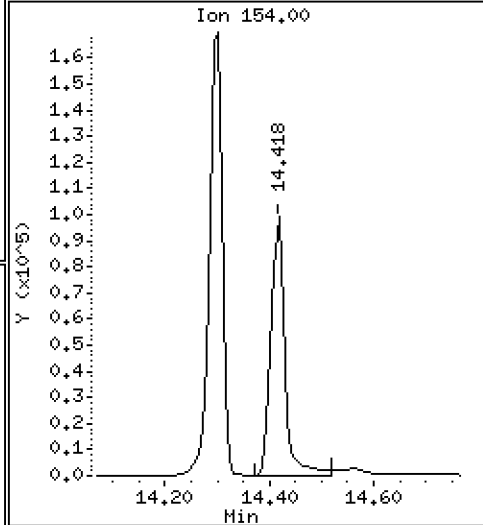
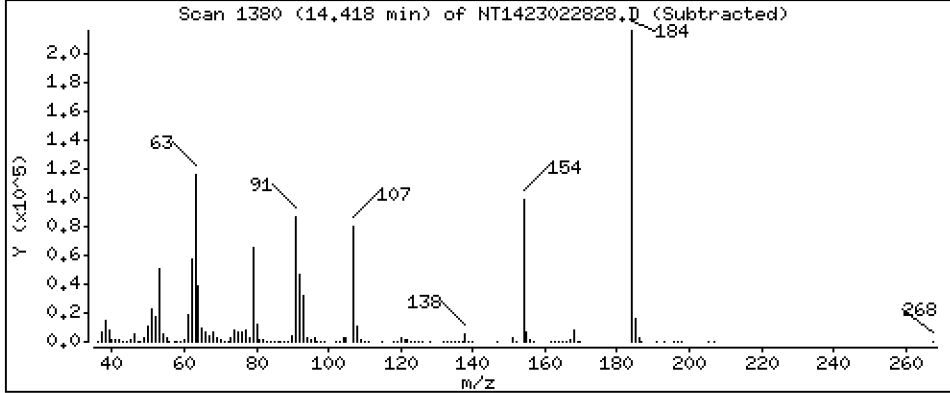
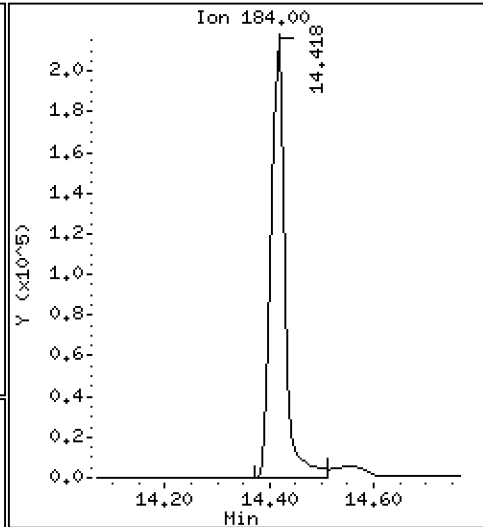
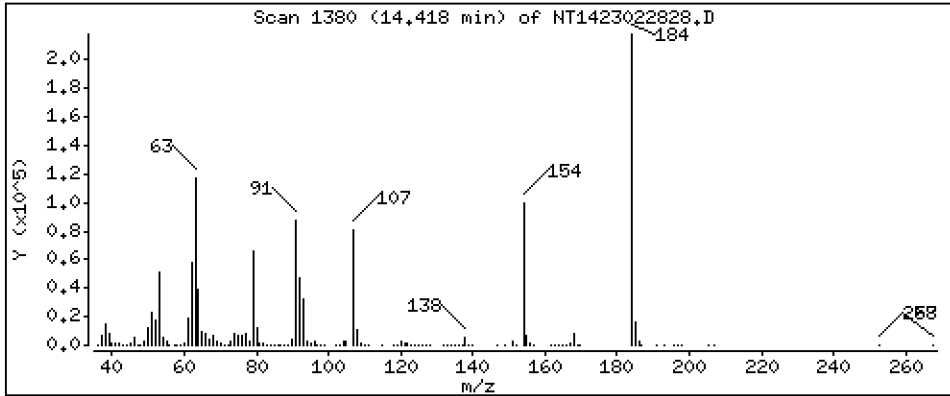
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

45 2,4-Dinitrophenol

Concentration: 31,26 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

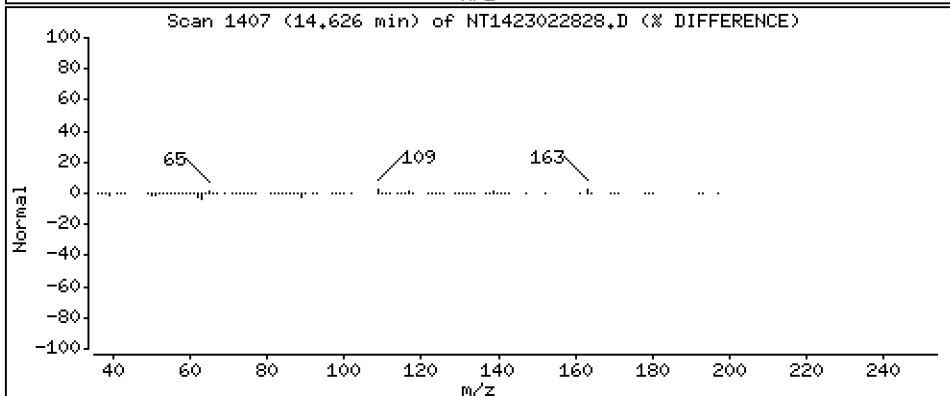
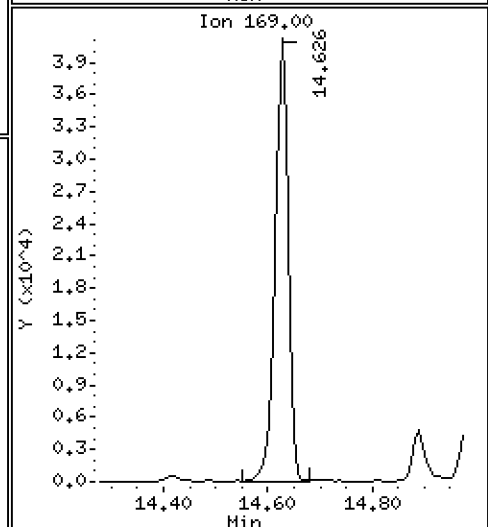
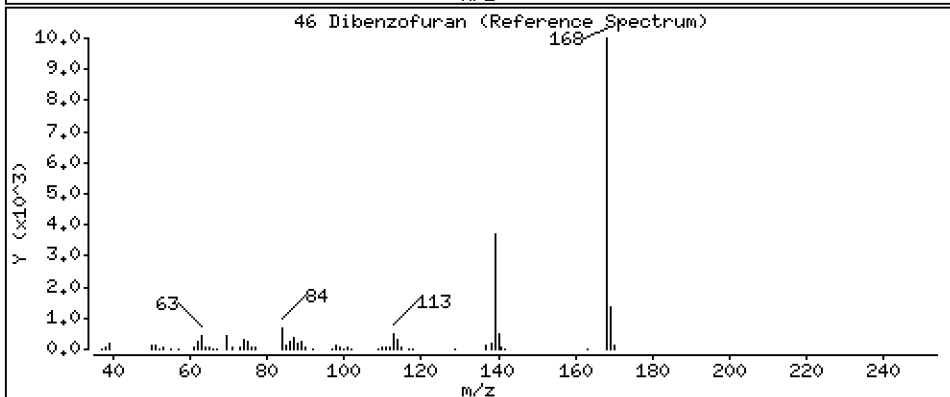
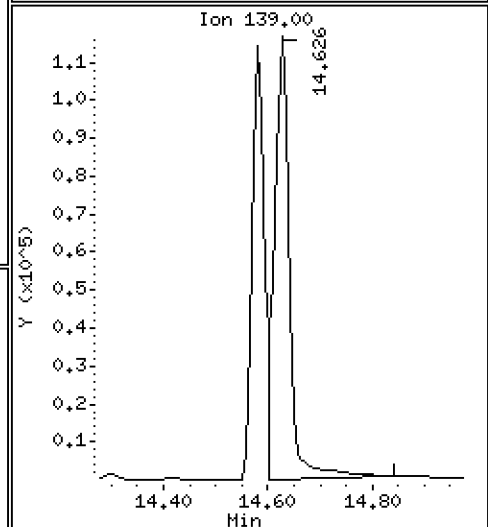
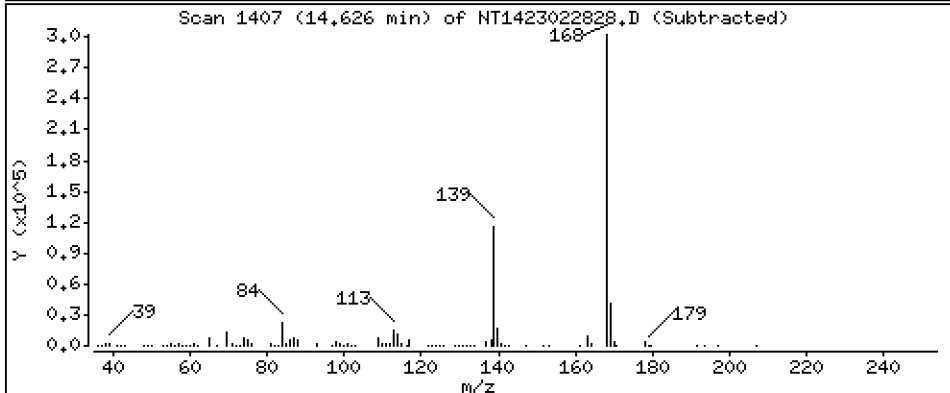
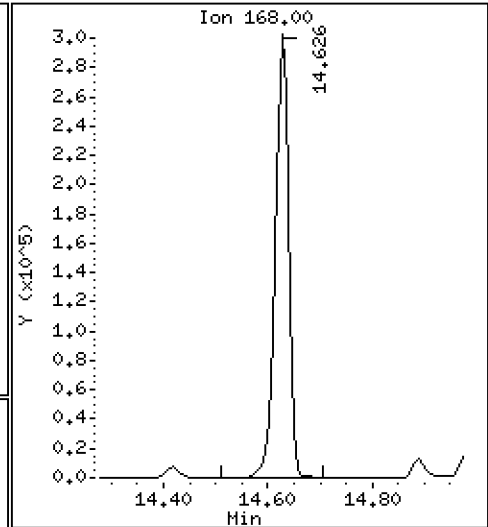
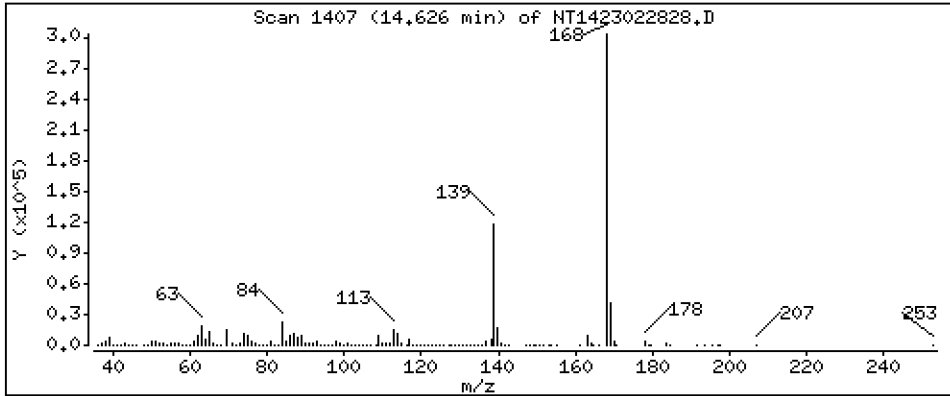
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 4,517 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

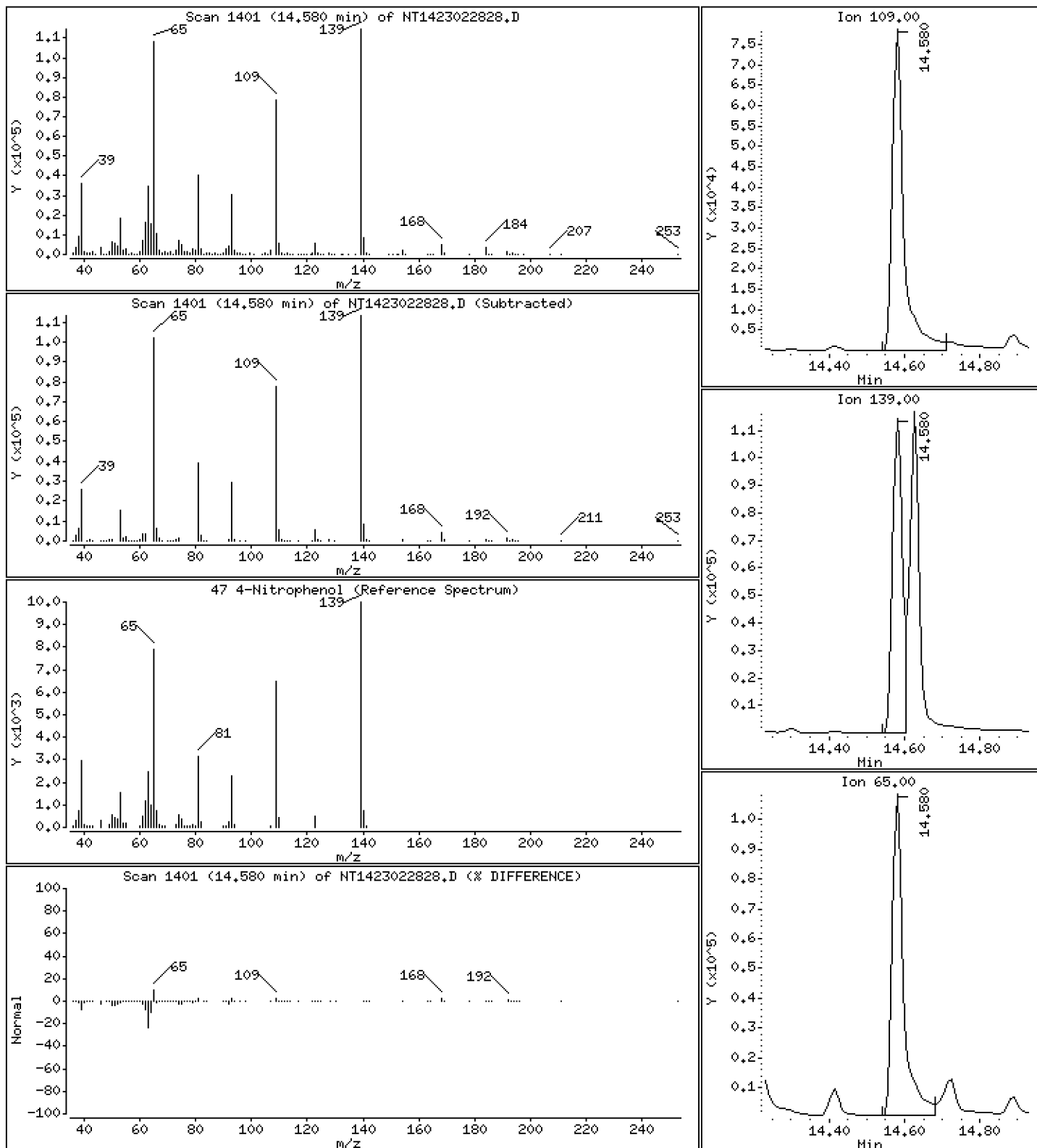
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

47 4-Nitrophenol

Concentration: 16,78 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

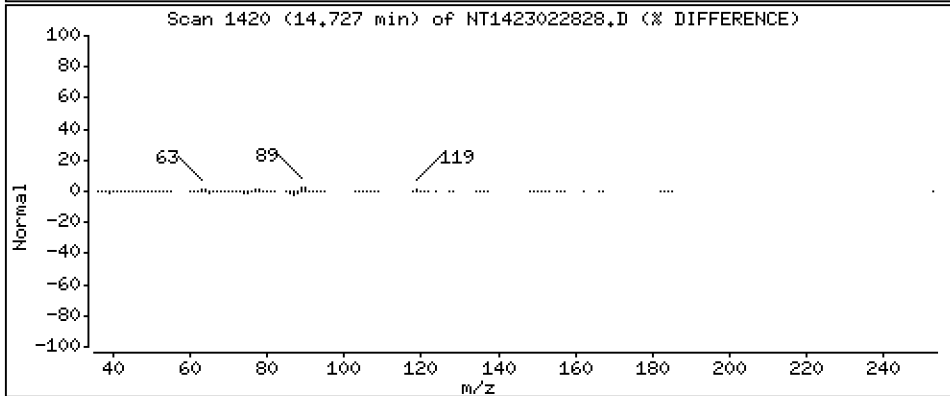
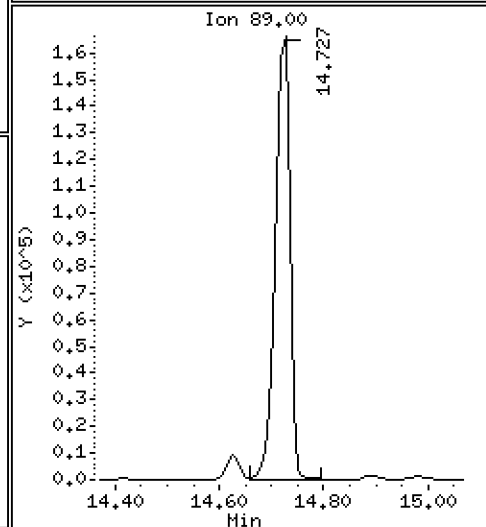
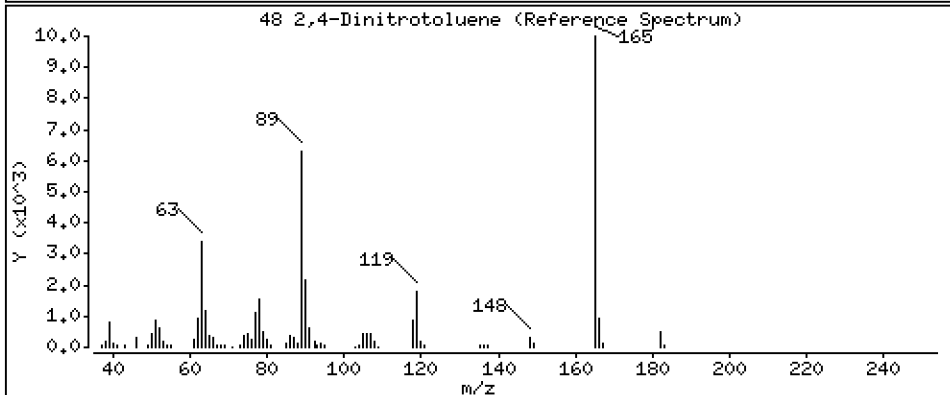
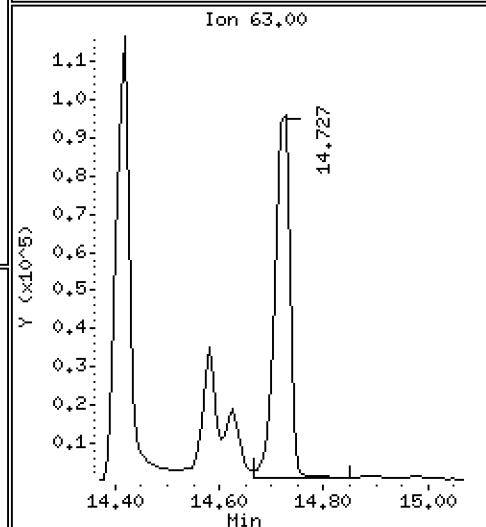
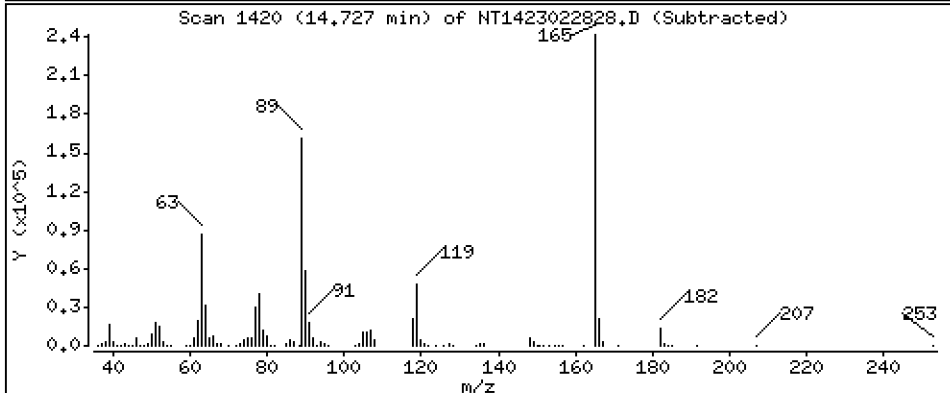
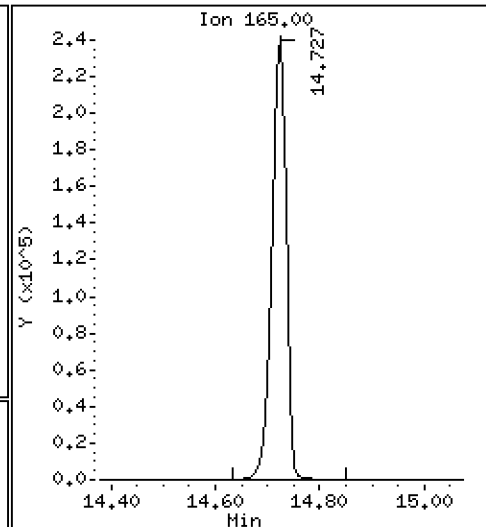
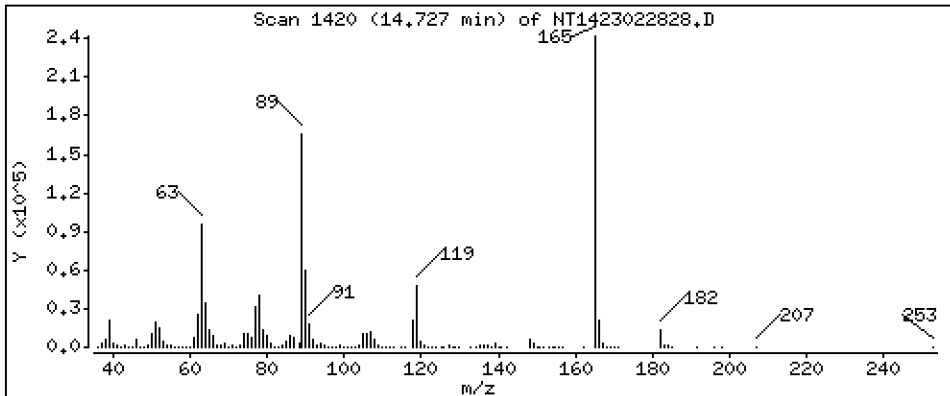
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

48 2,4-Dinitrotoluene

Concentration: 17,23 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

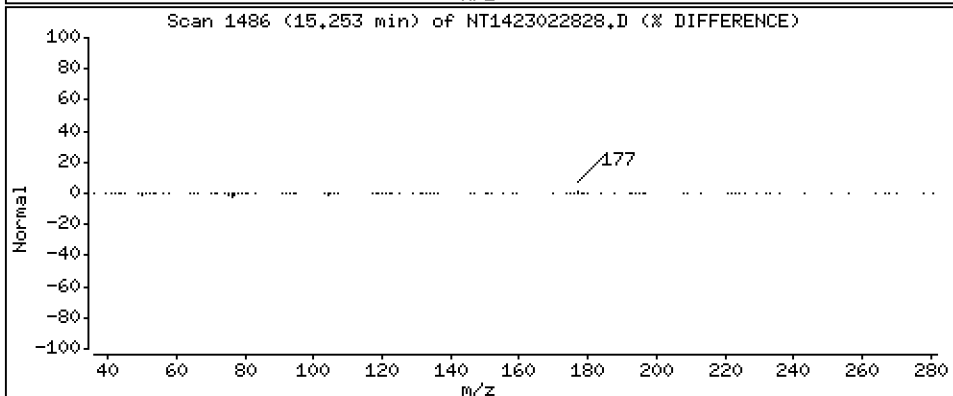
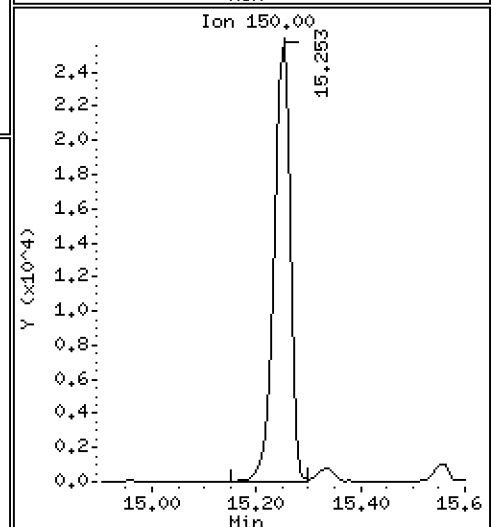
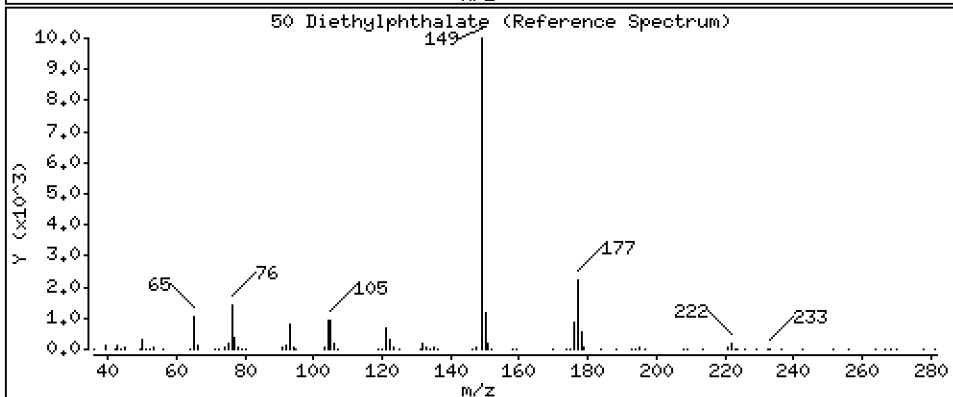
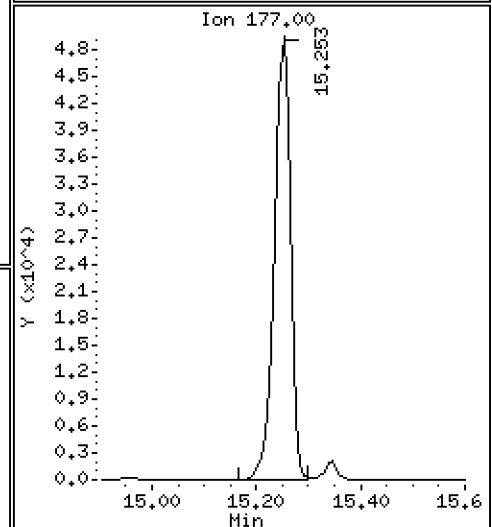
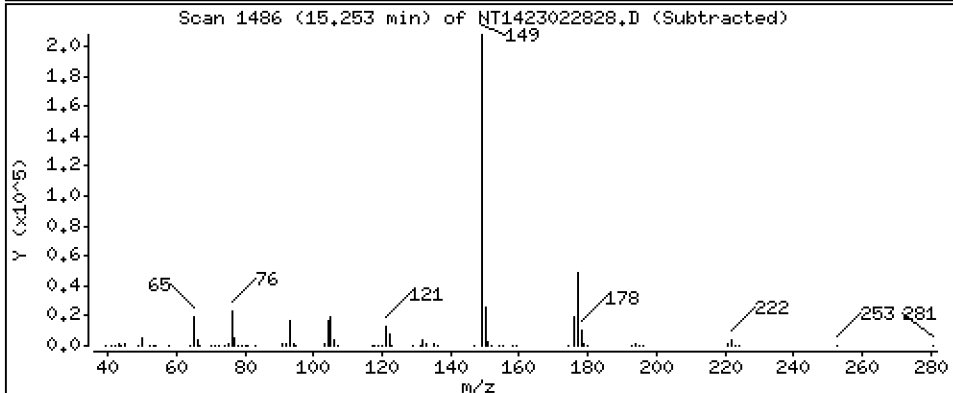
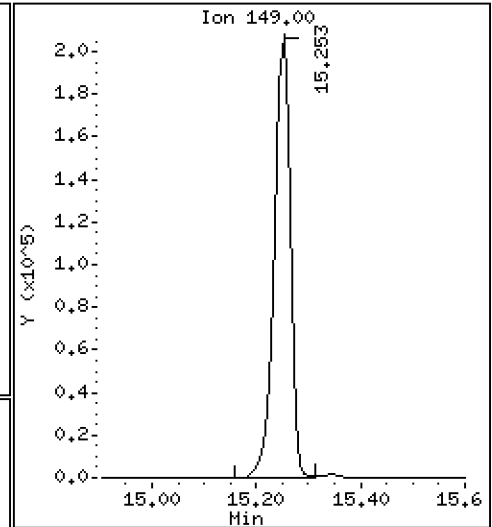
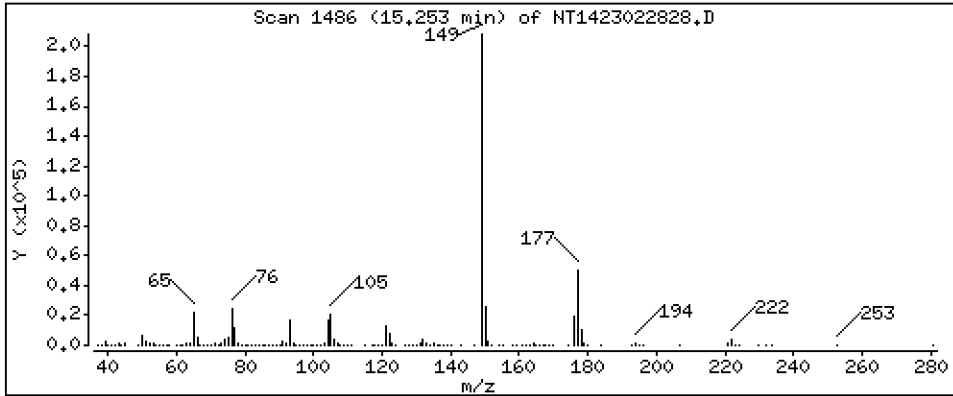
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 6,010 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

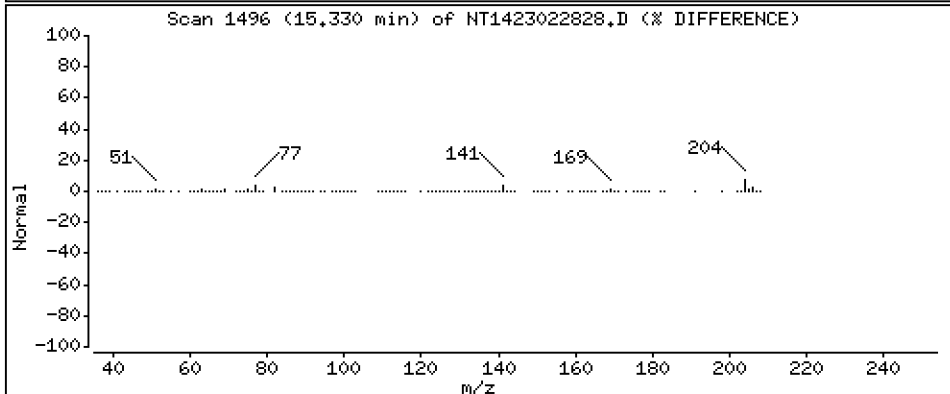
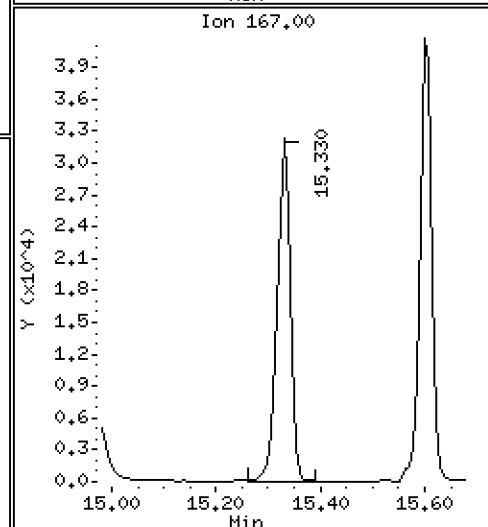
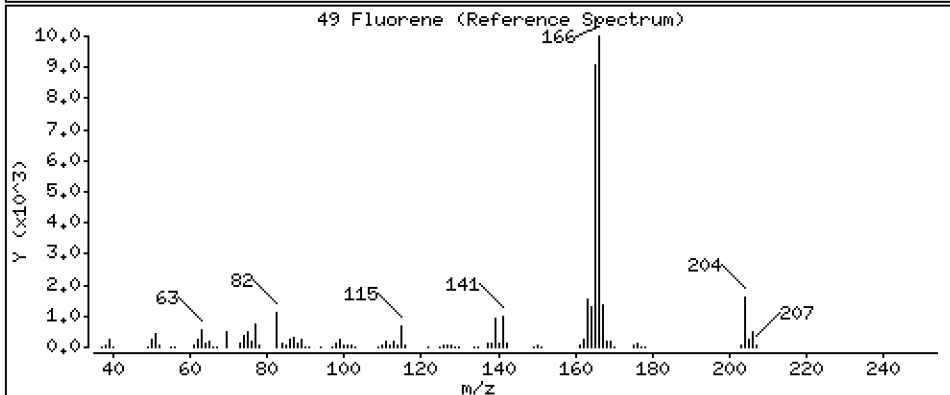
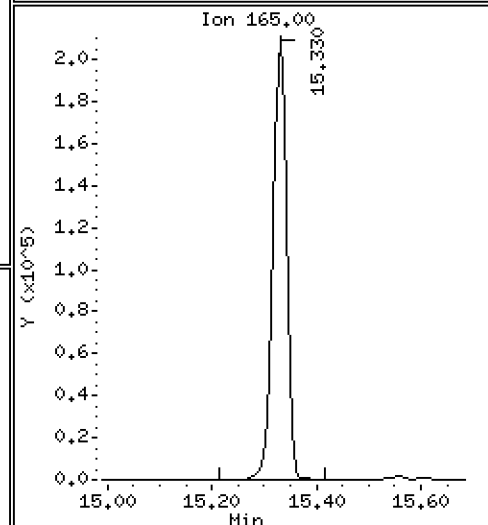
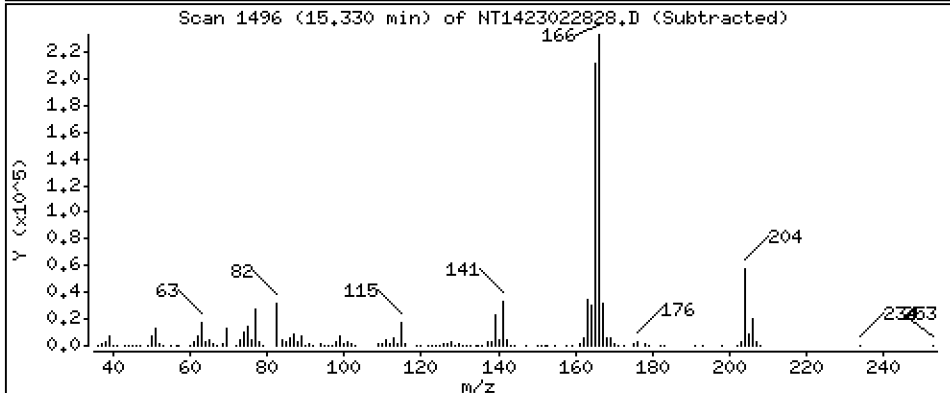
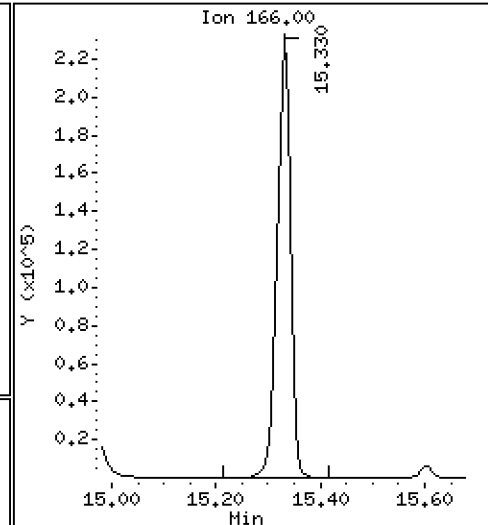
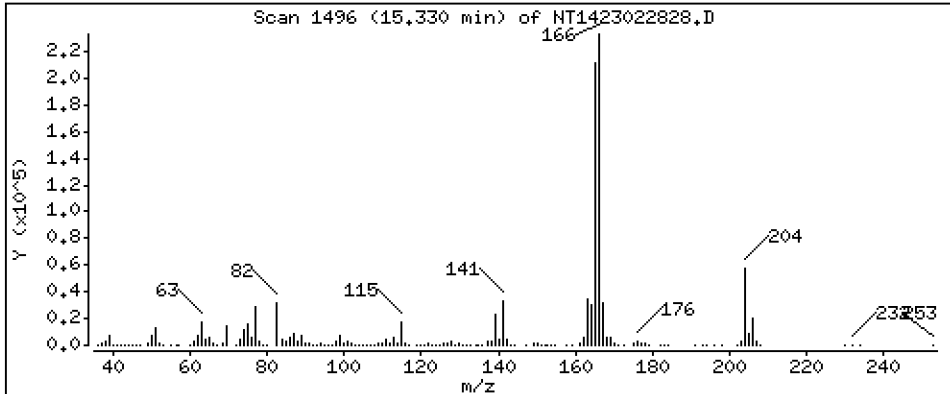
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 4,620 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

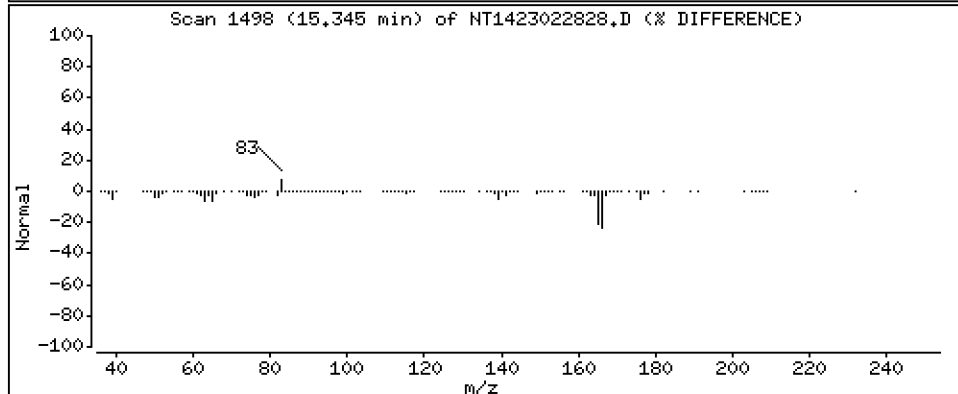
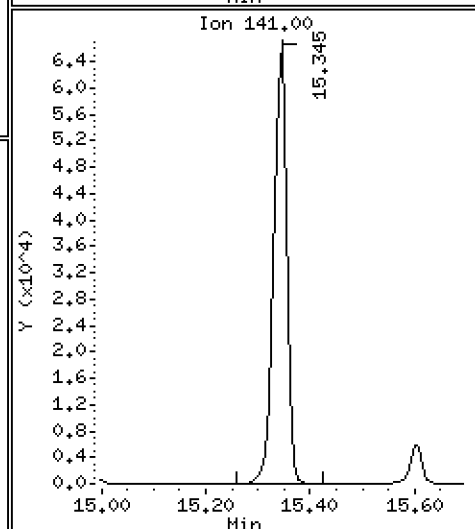
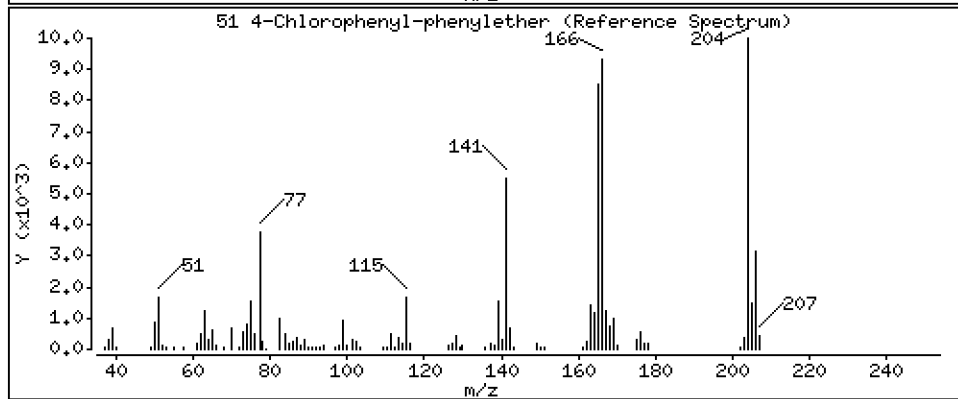
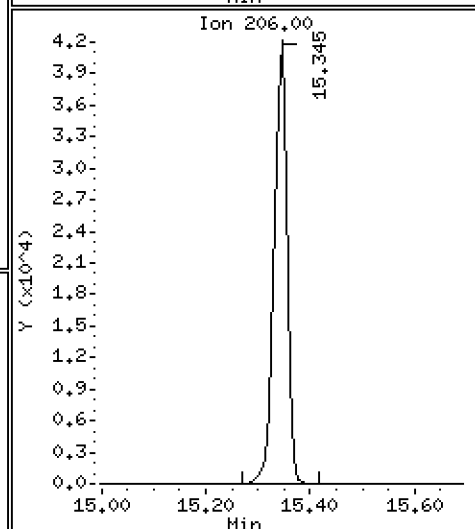
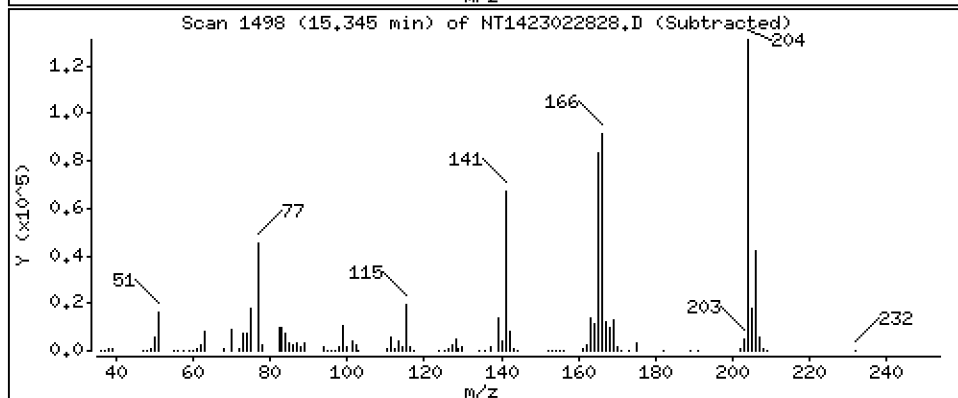
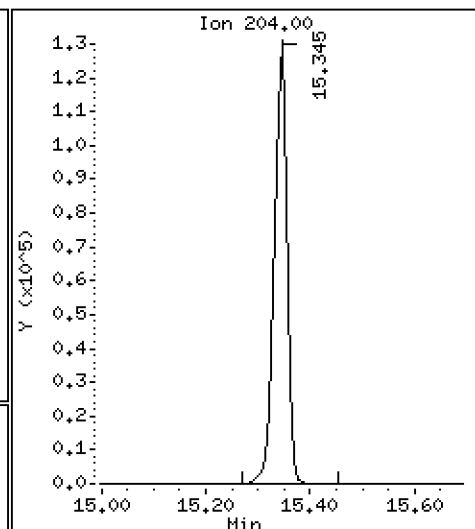
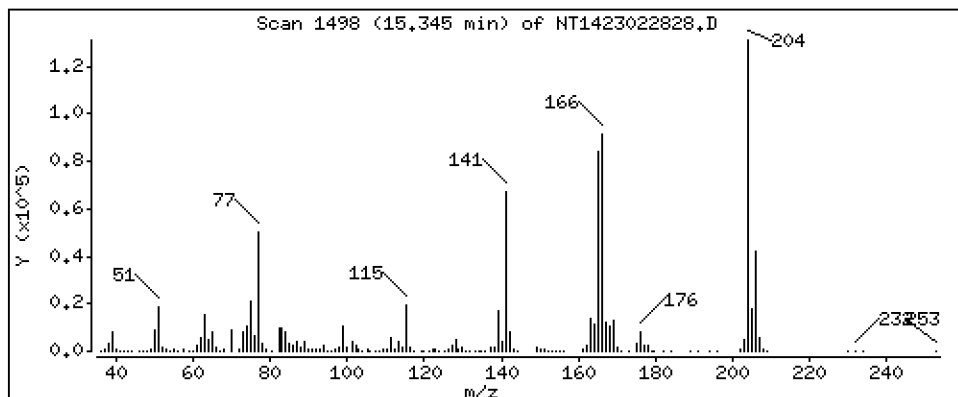
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 4,595 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

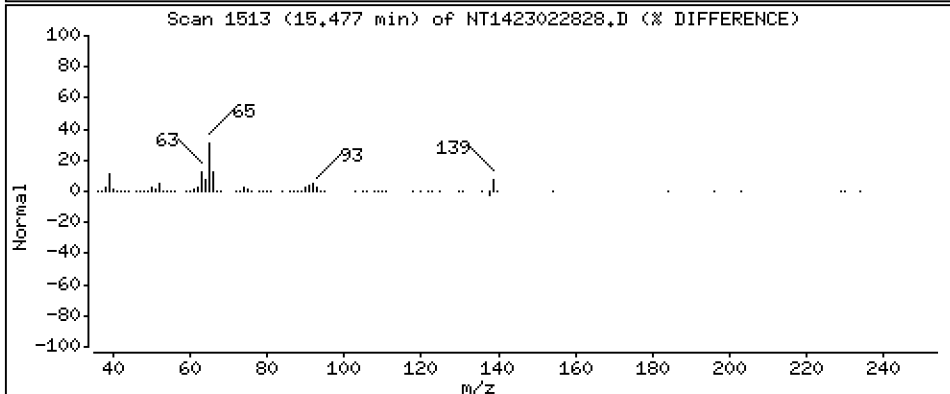
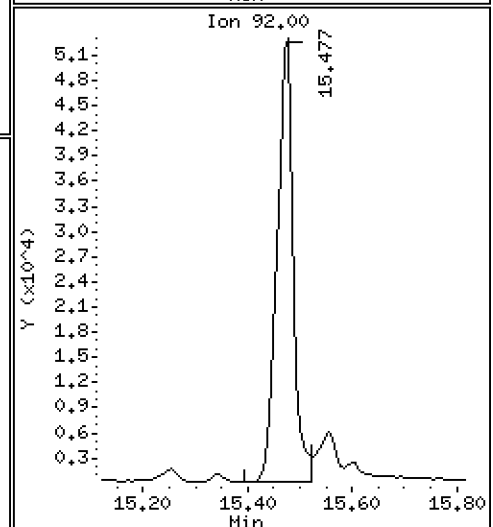
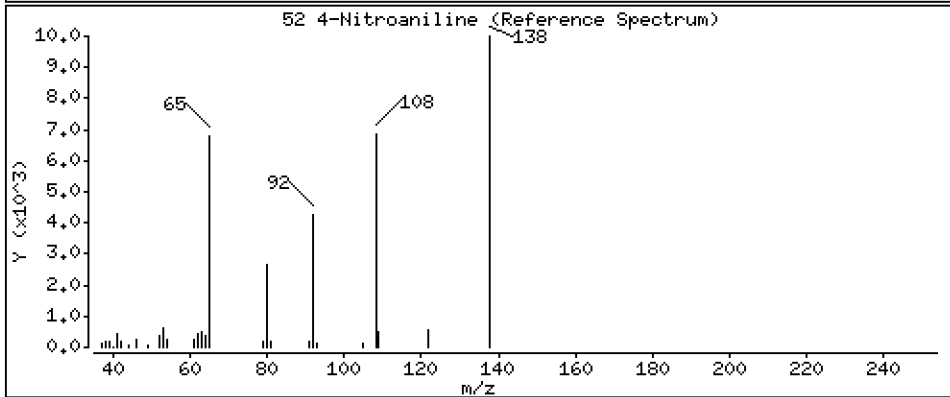
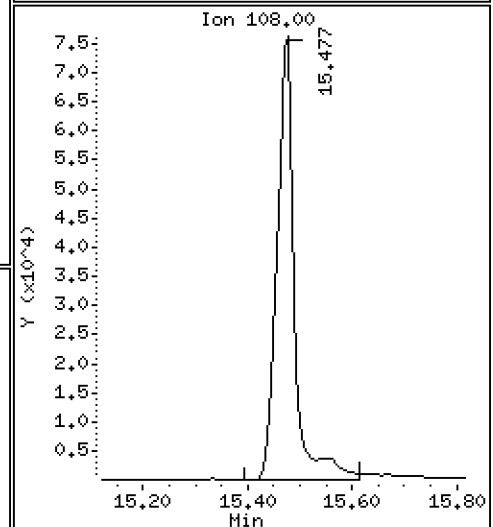
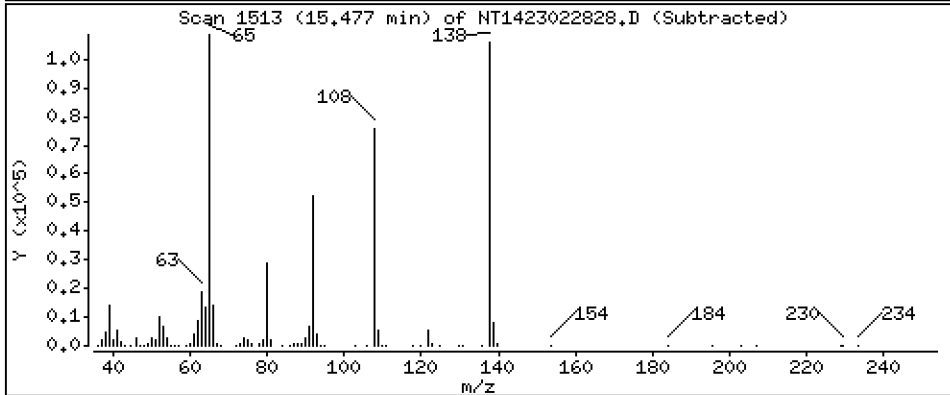
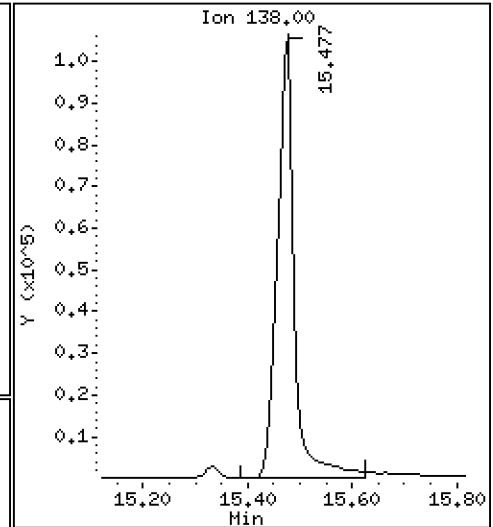
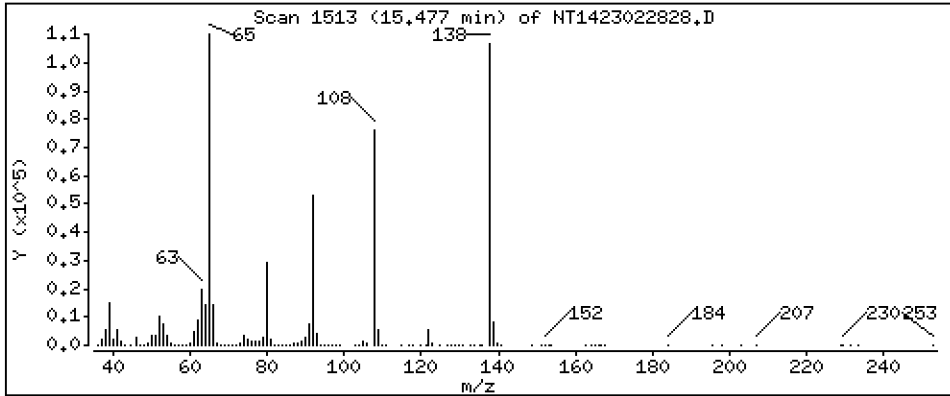
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

52 4-Nitroaniline

Concentration: 13,82 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

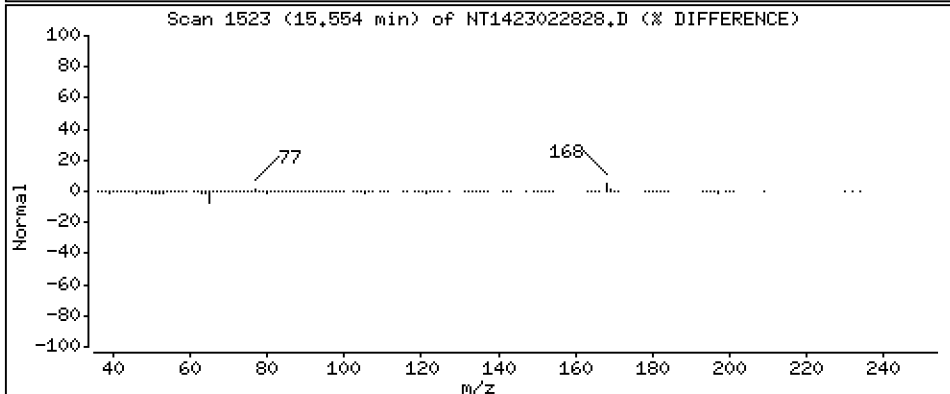
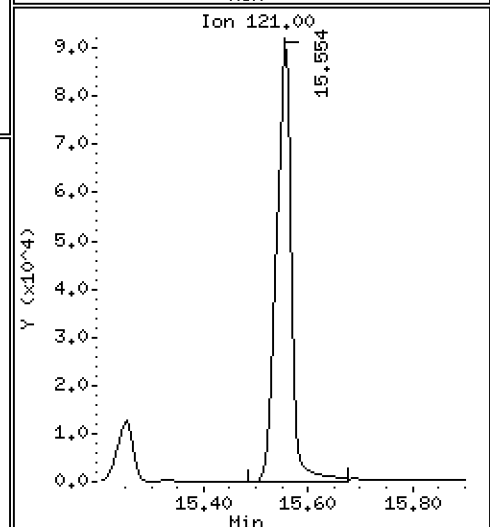
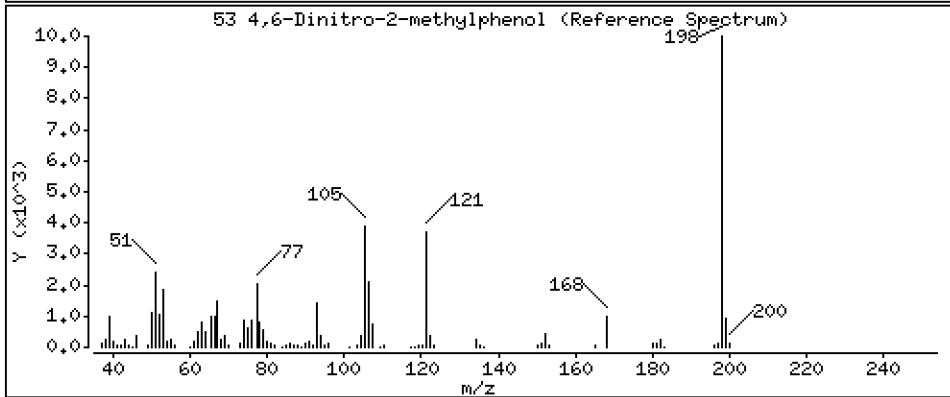
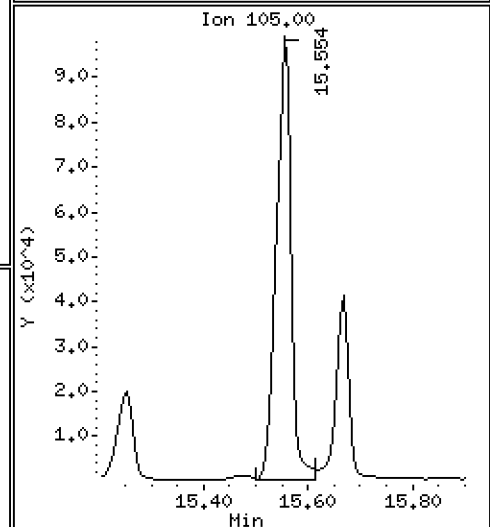
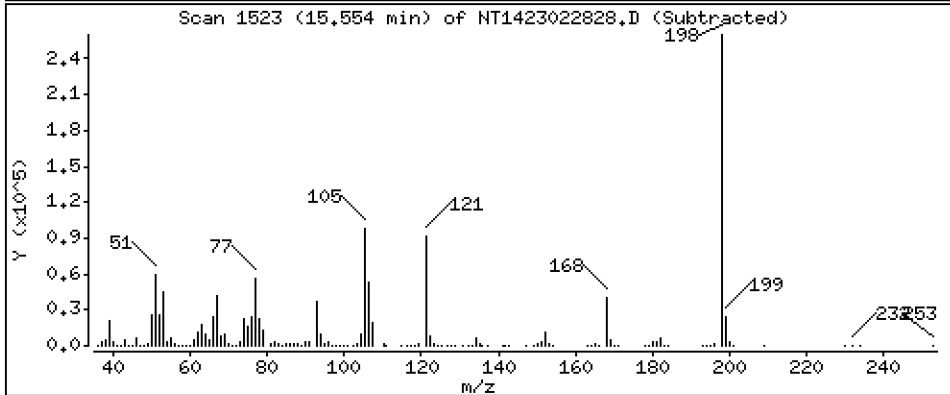
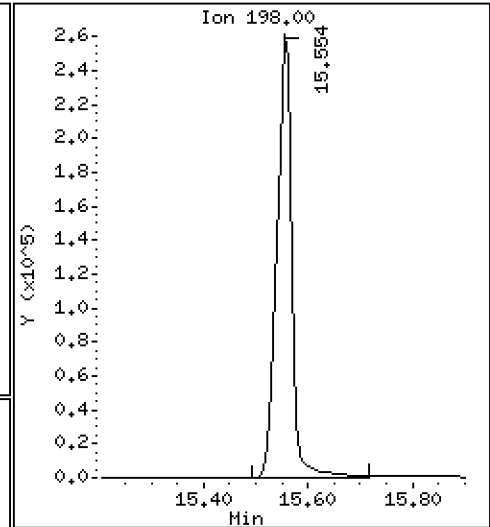
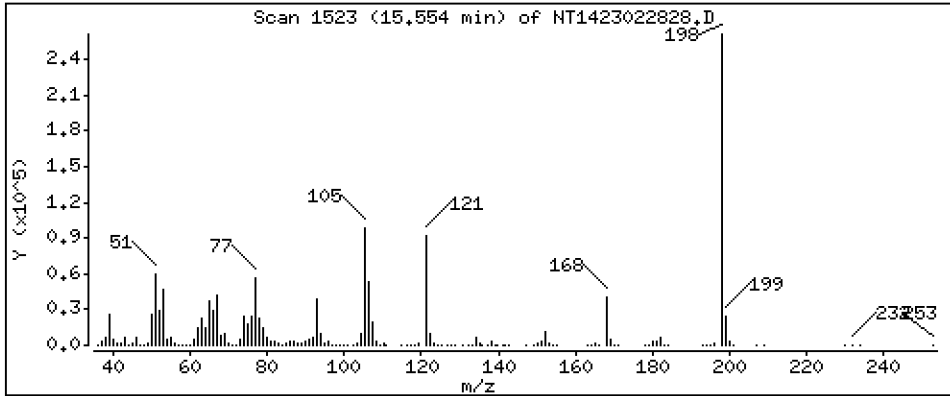
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

53 4,6-Dinitro-2-methylphenol

Concentration: 33,21 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

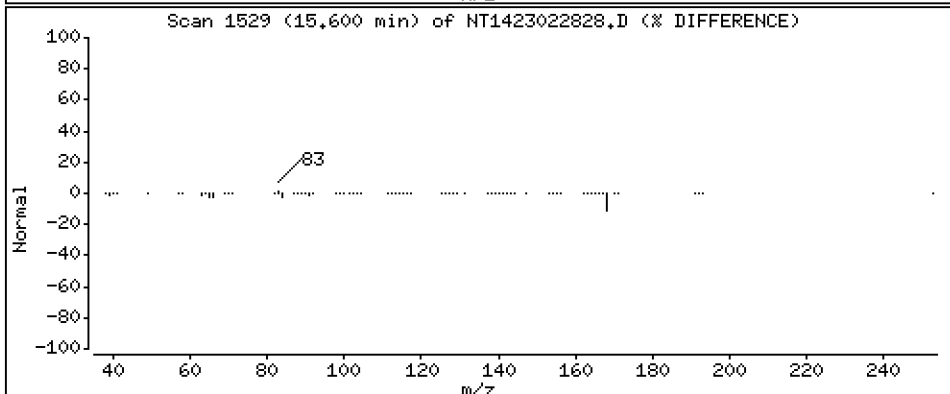
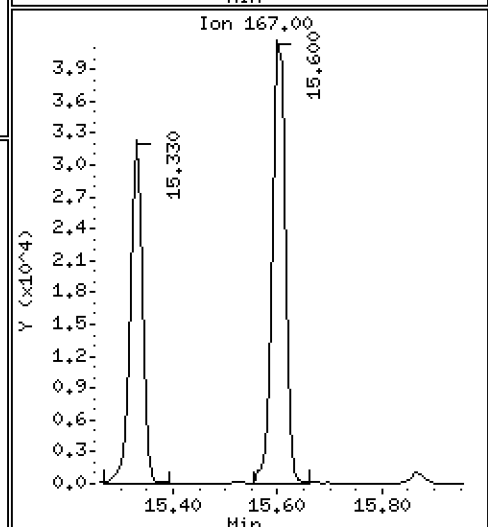
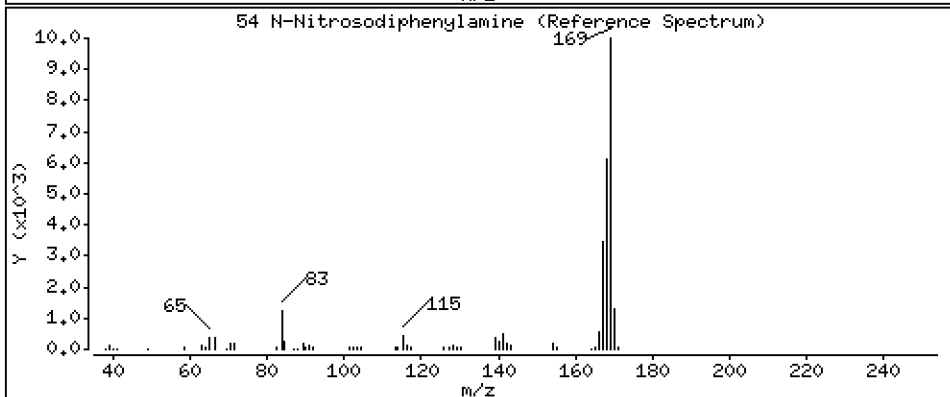
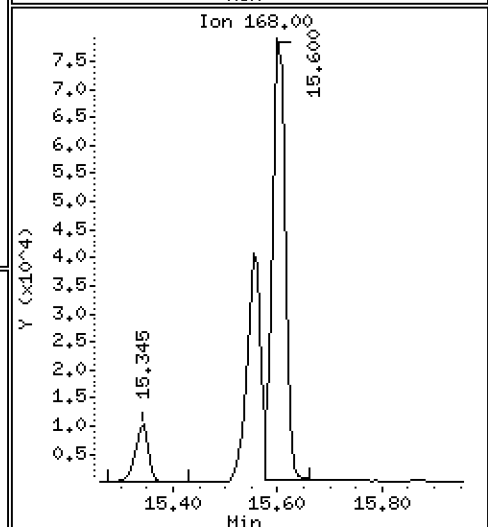
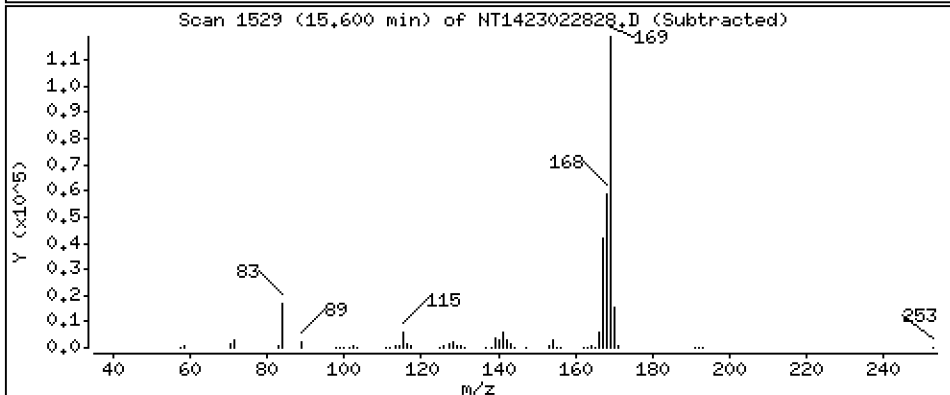
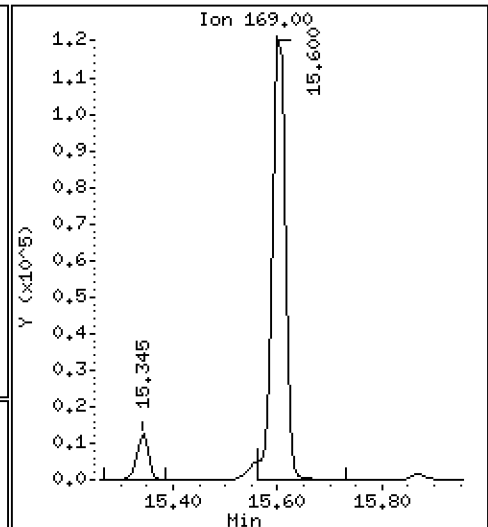
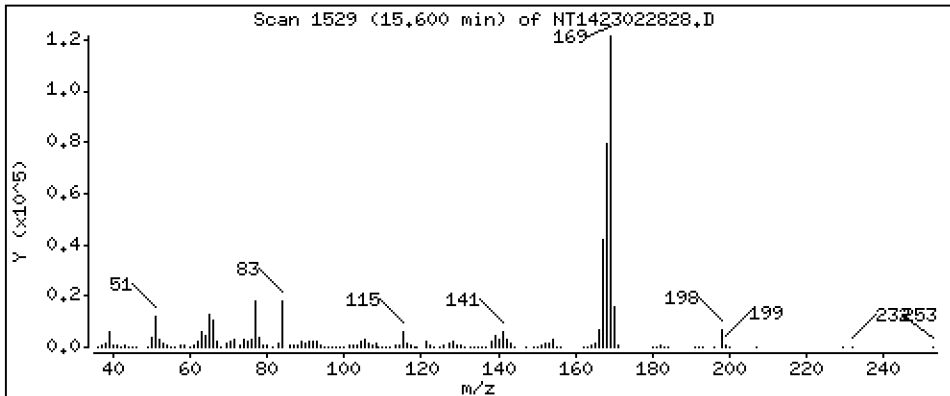
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

54 N-Nitrosodiphenylamine

Concentration: 3,473 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

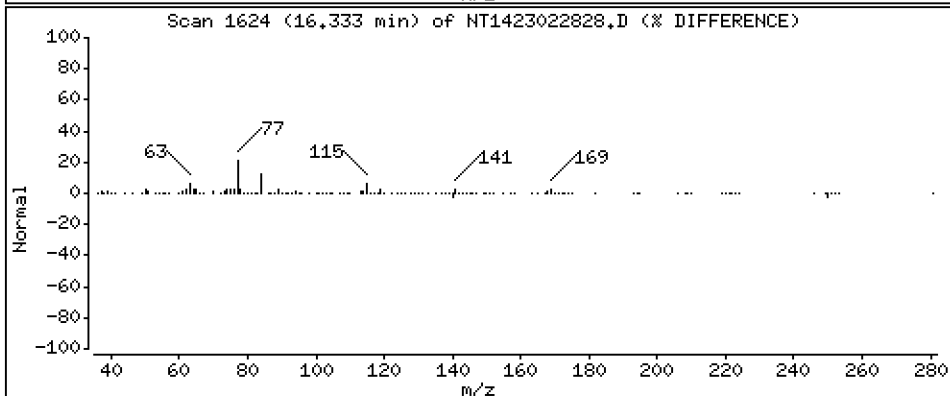
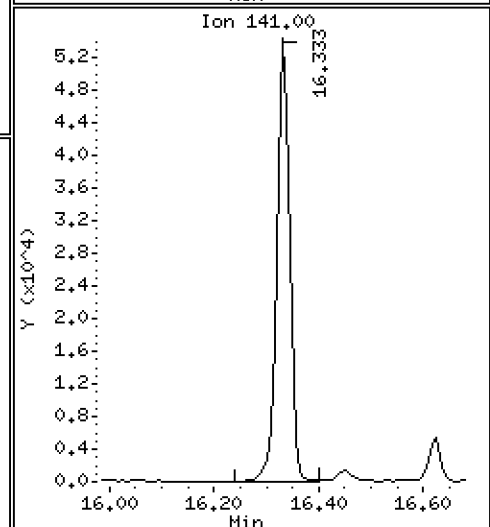
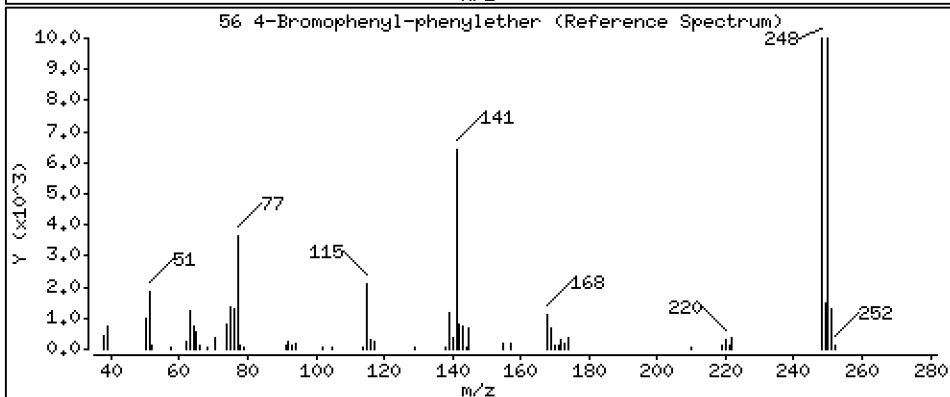
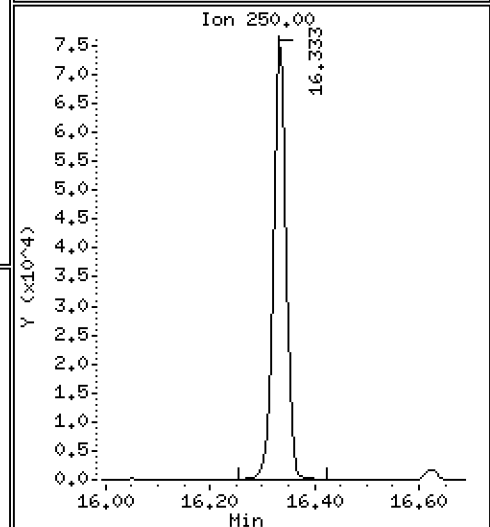
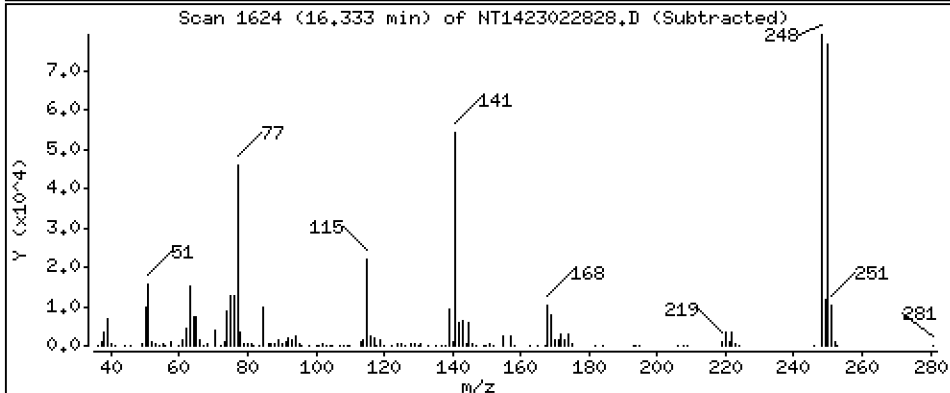
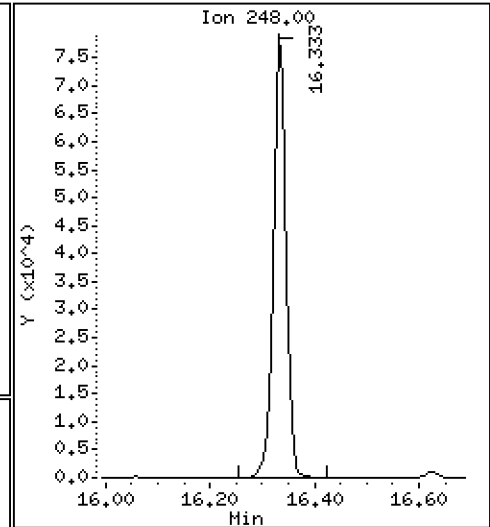
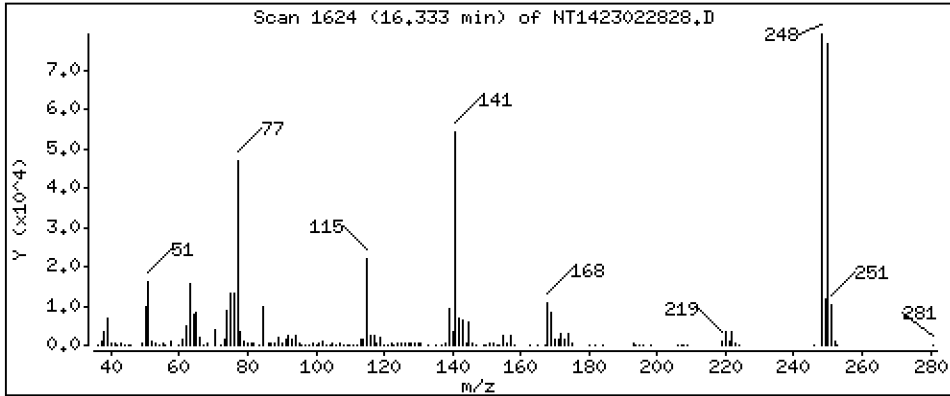
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 5,261 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

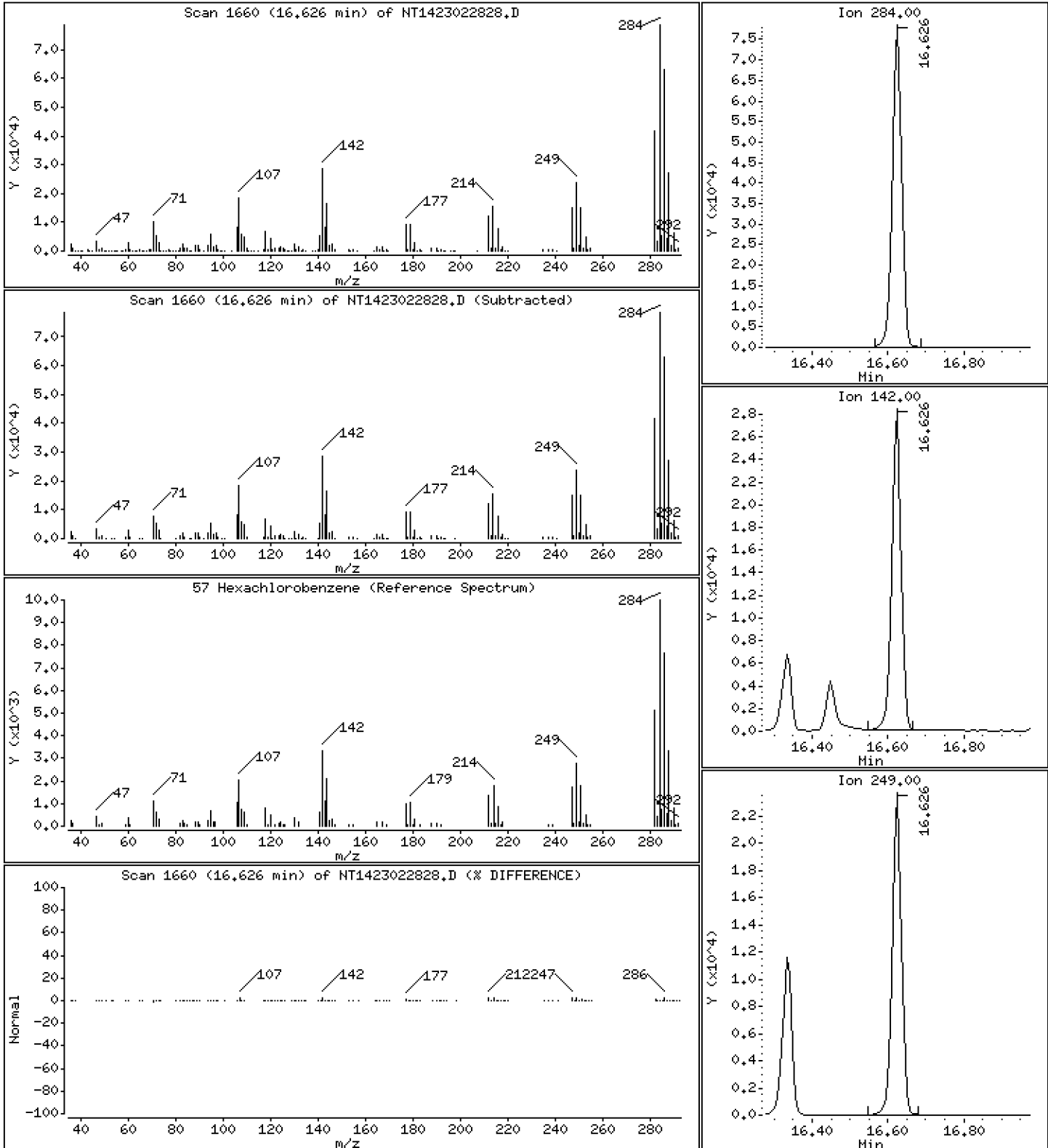
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

57 Hexachlorobenzene

Concentration: 4,758 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

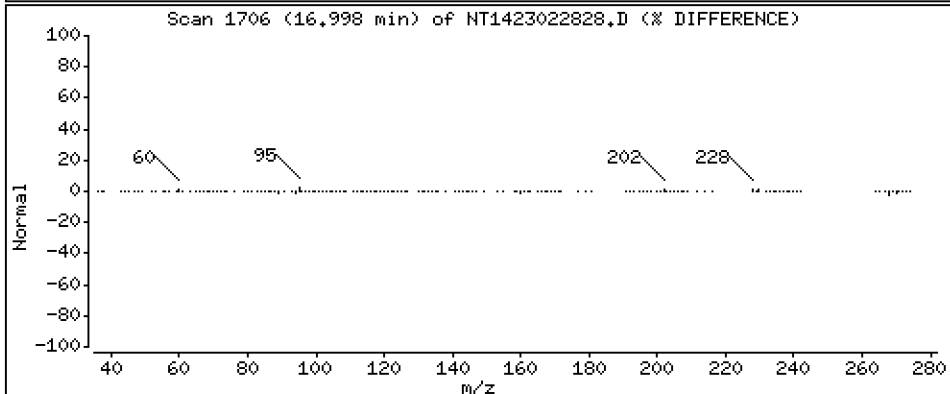
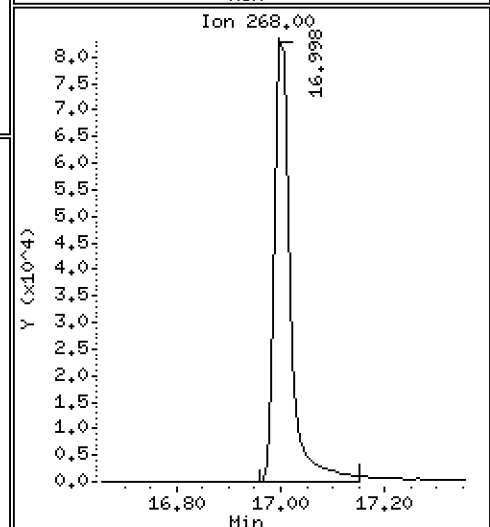
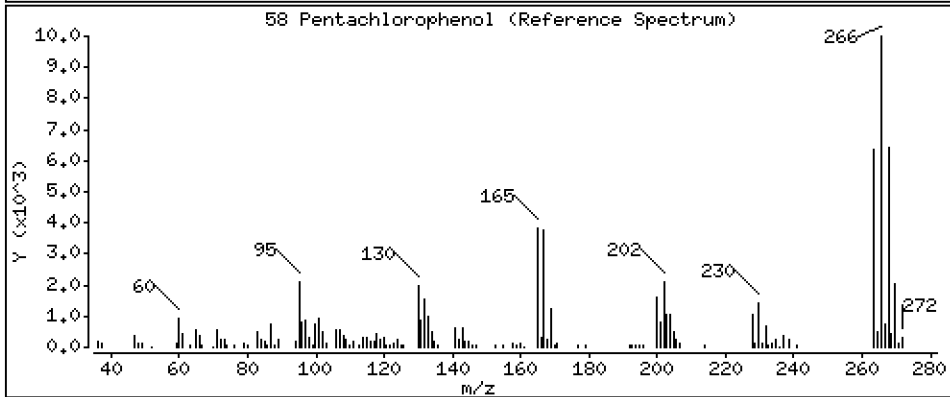
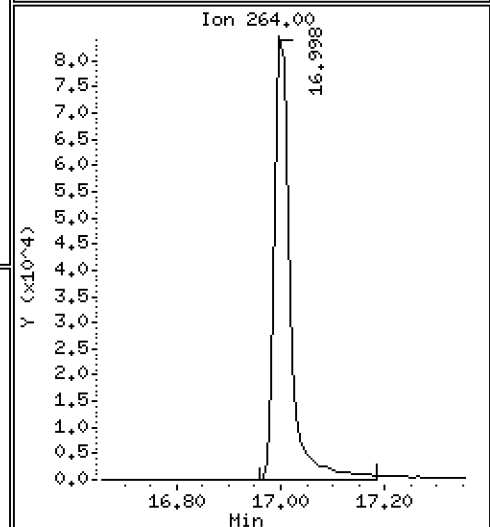
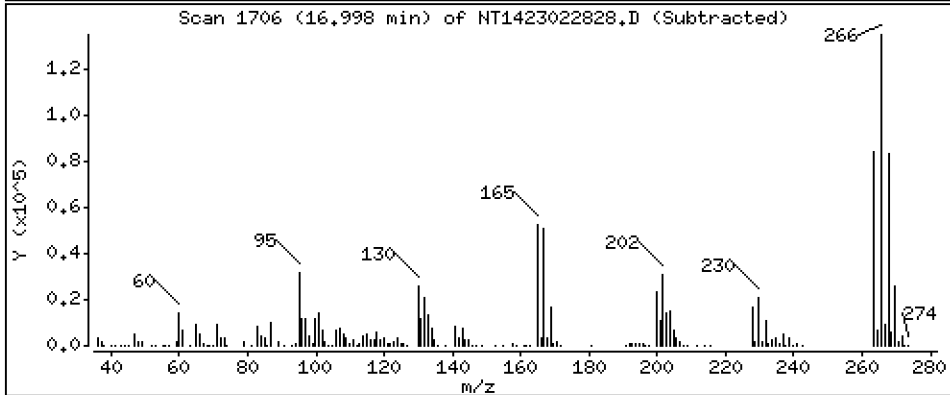
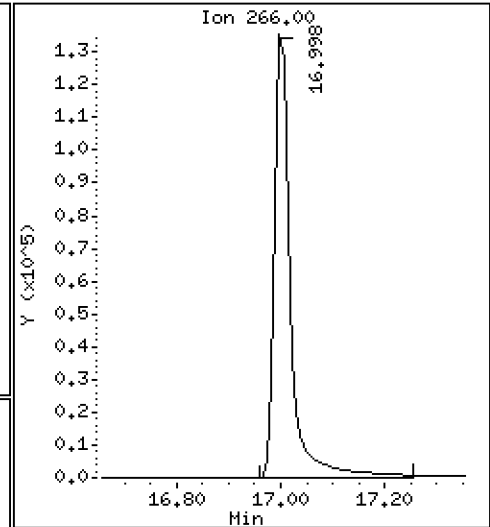
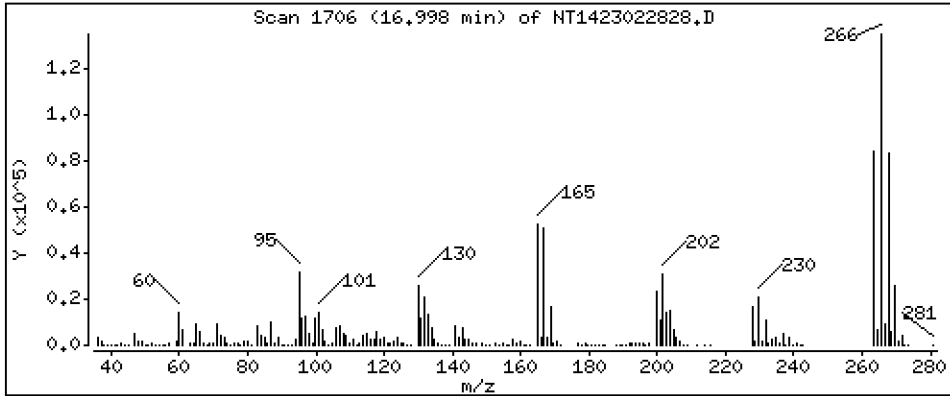
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 19,36 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

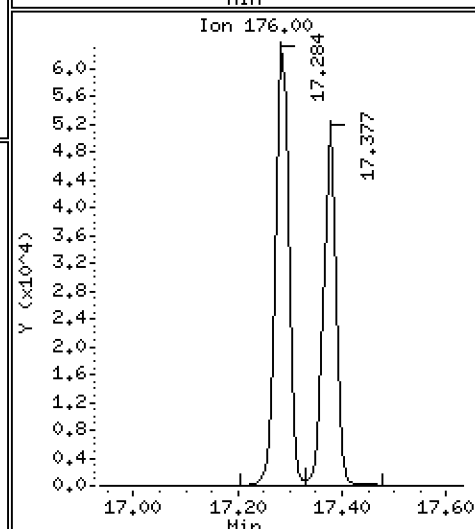
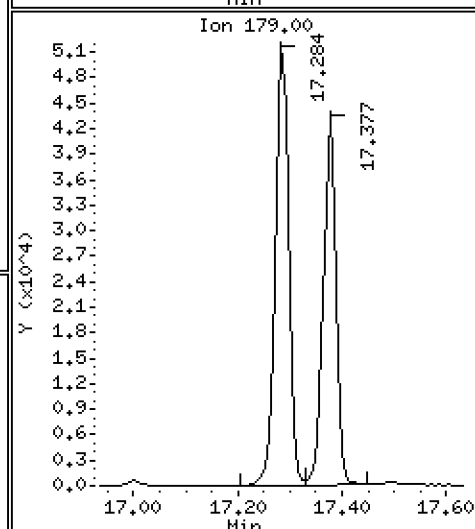
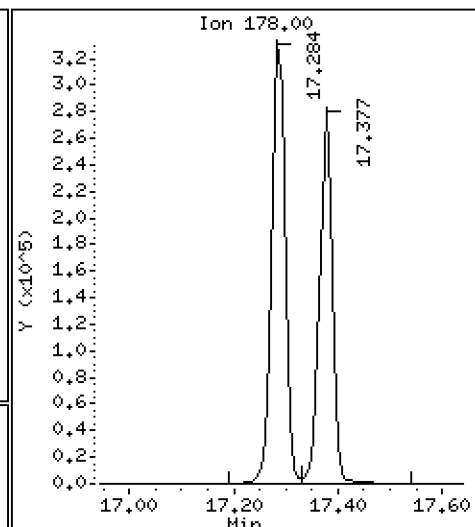
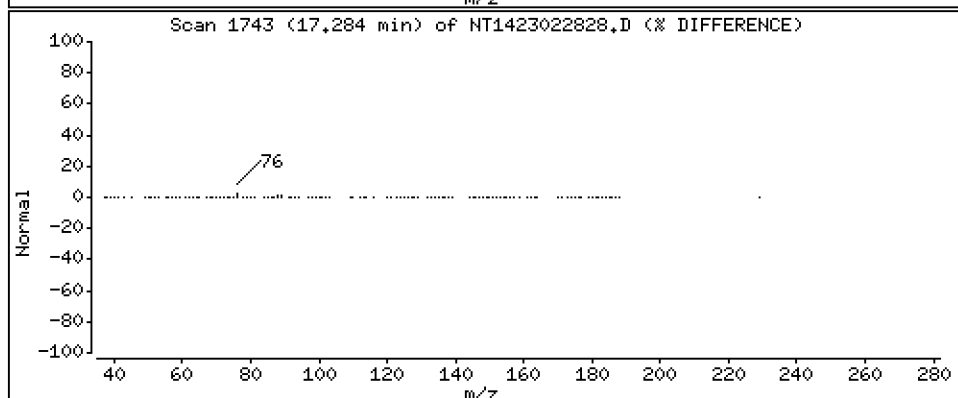
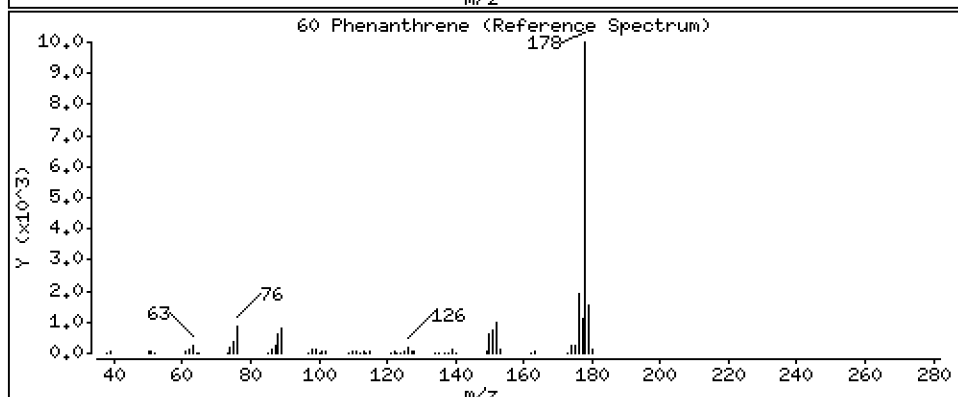
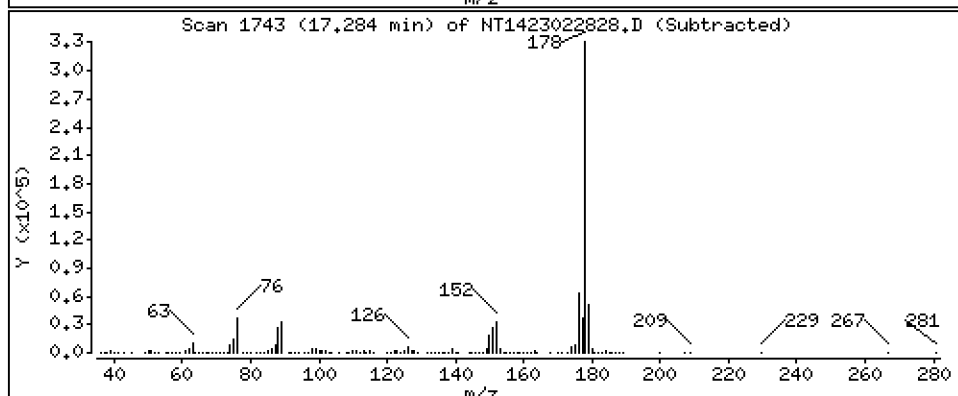
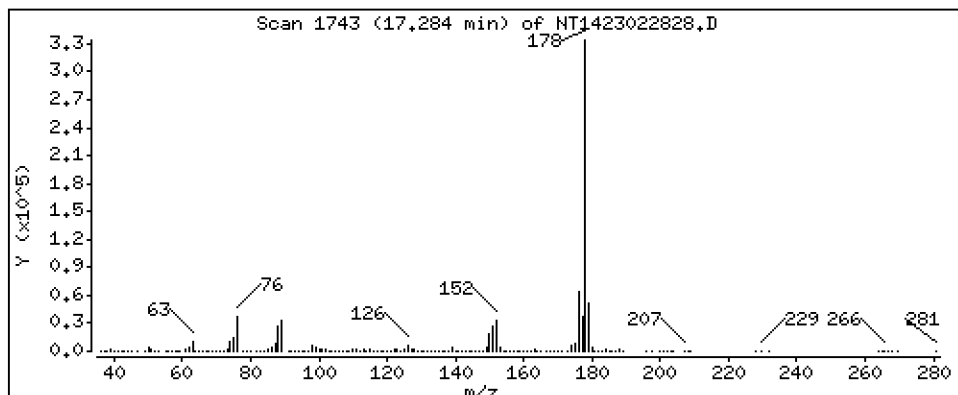
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 4,684 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

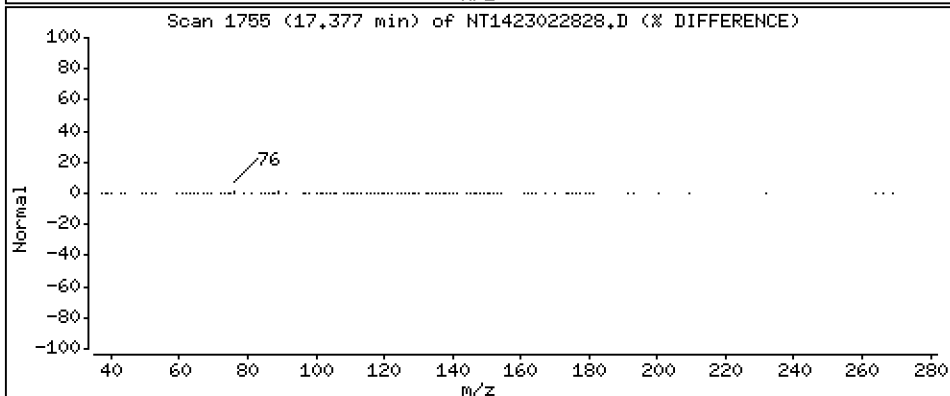
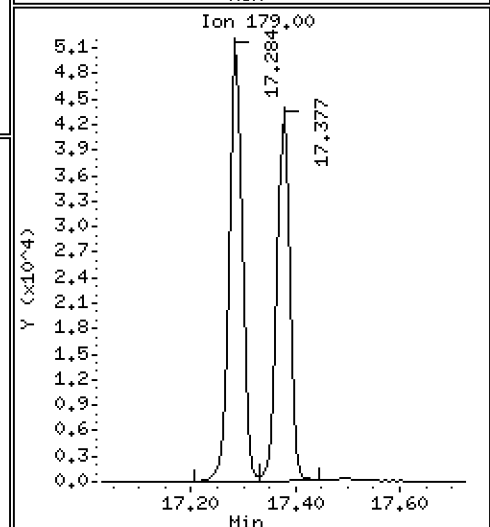
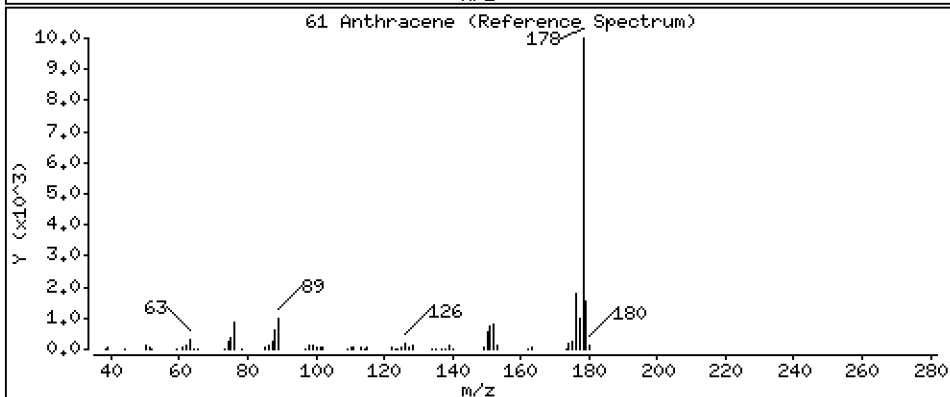
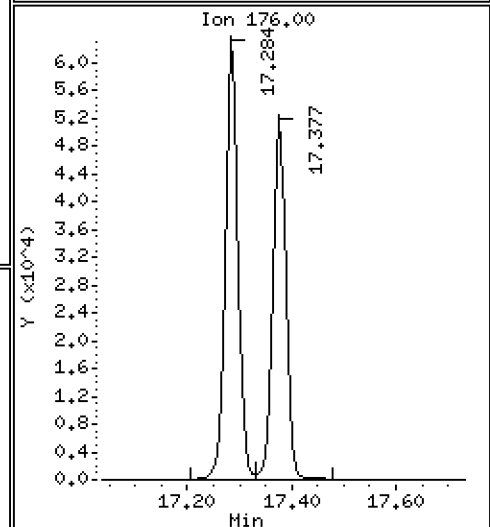
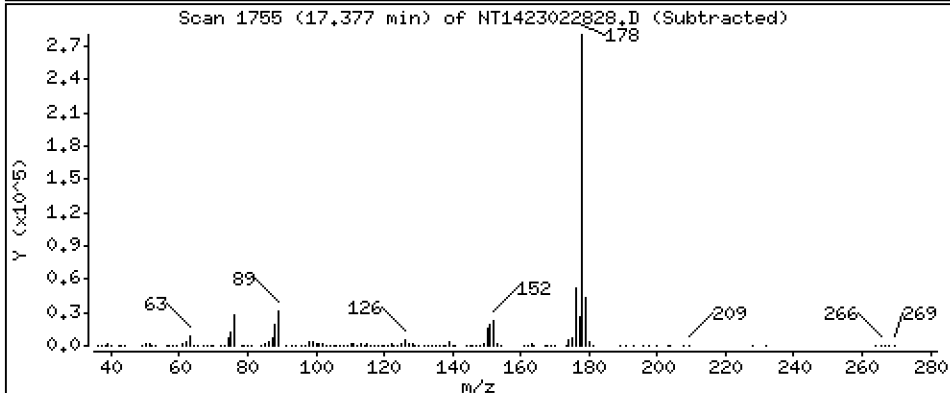
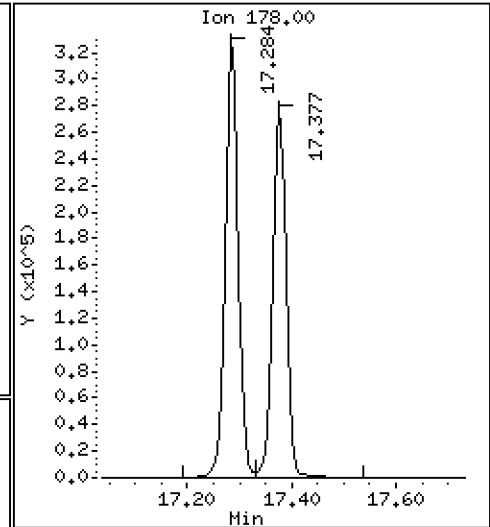
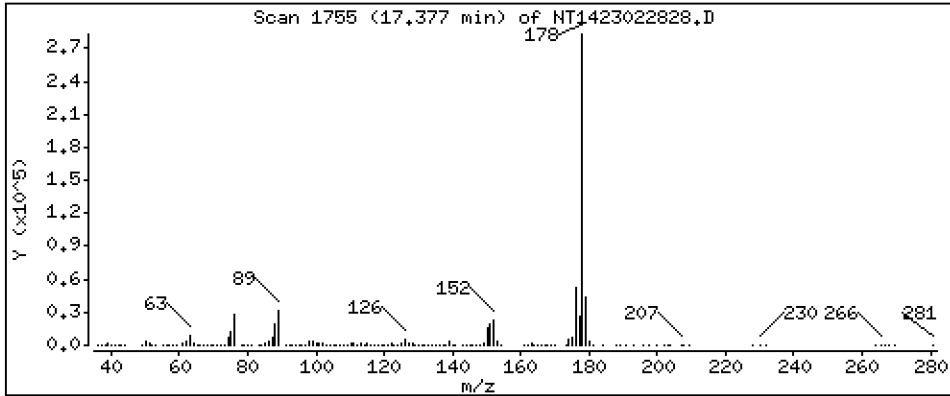
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 4,077 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

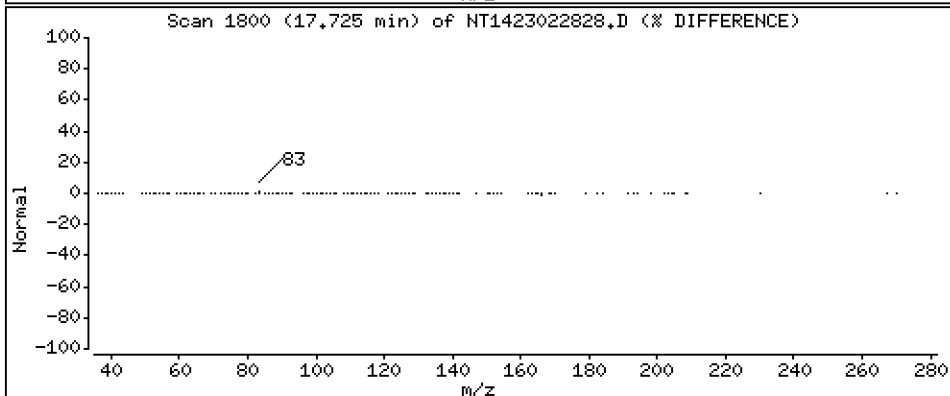
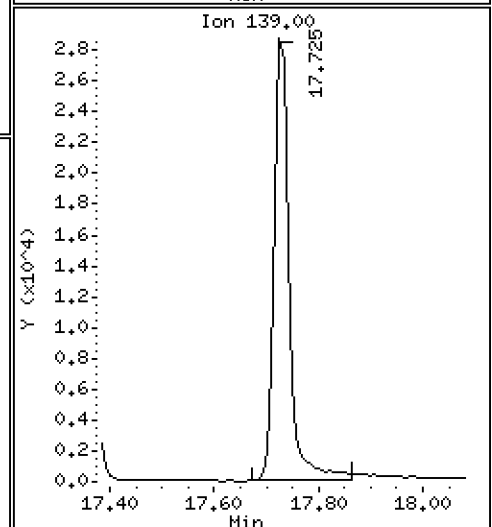
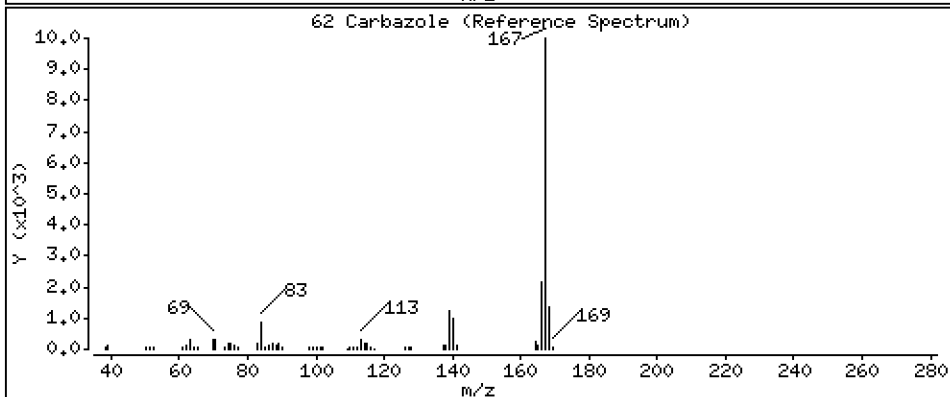
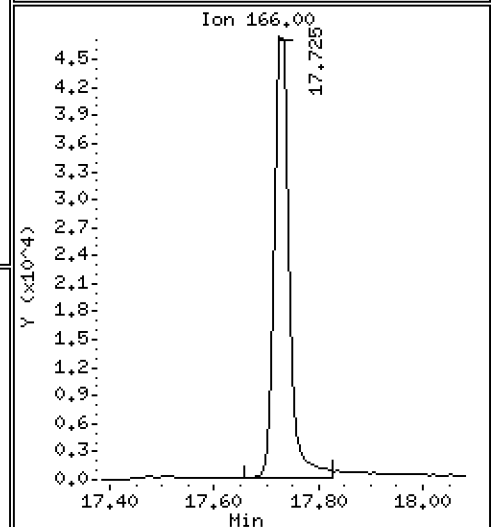
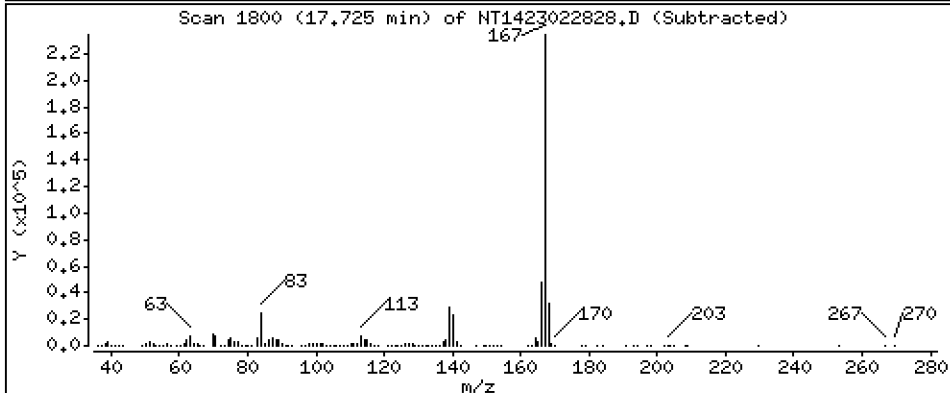
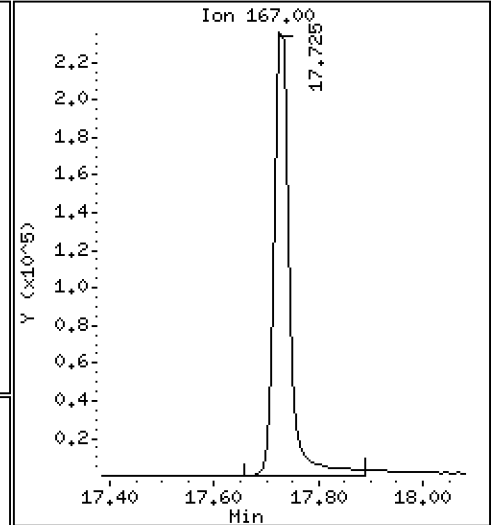
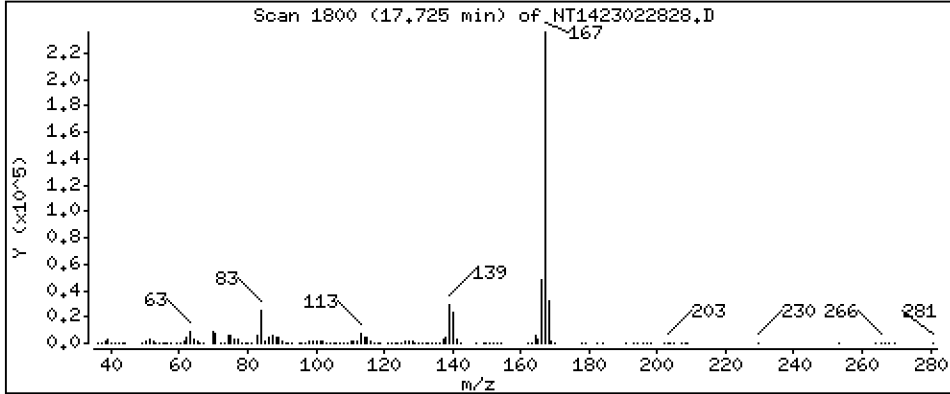
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 4,631 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

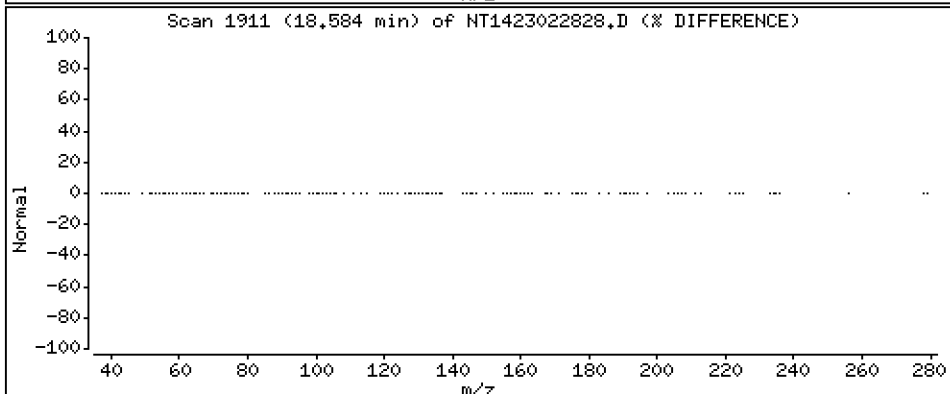
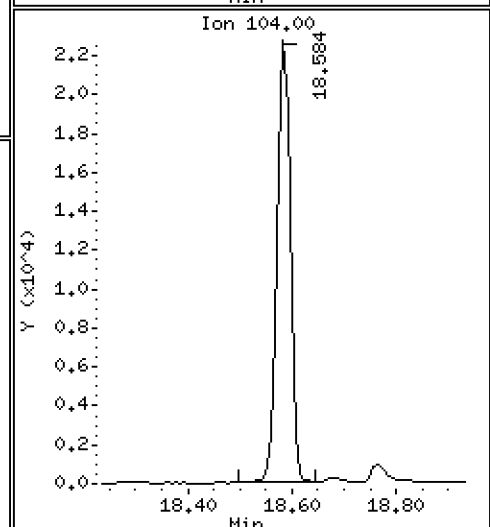
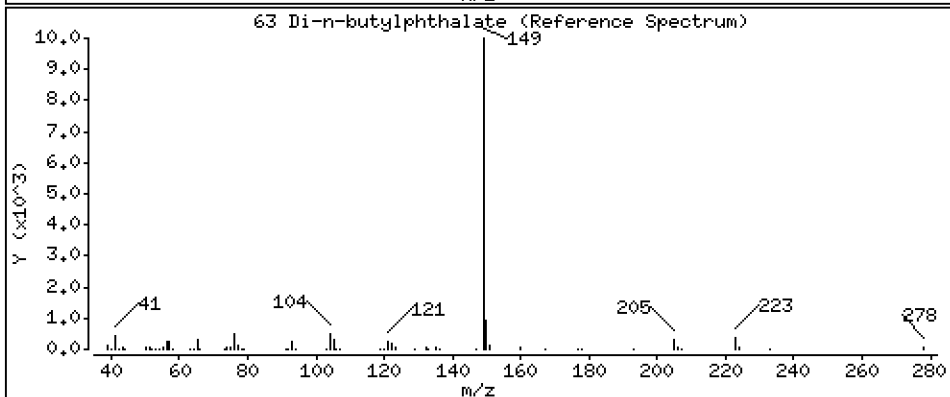
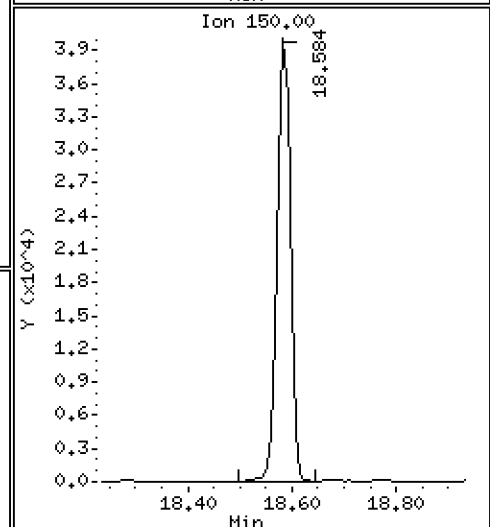
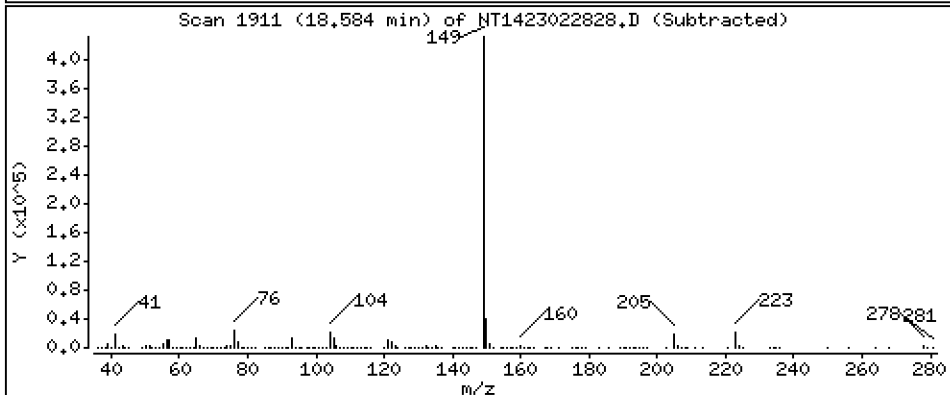
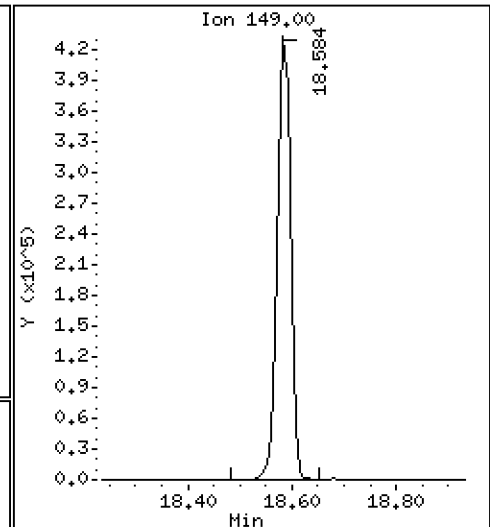
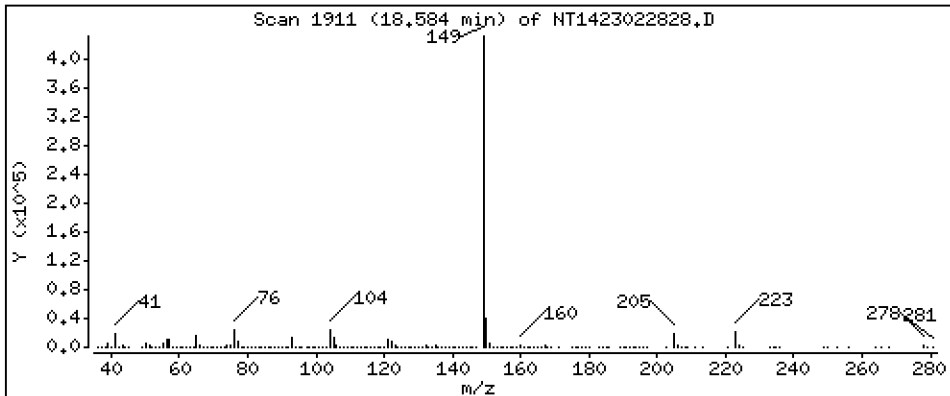
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 5,756 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

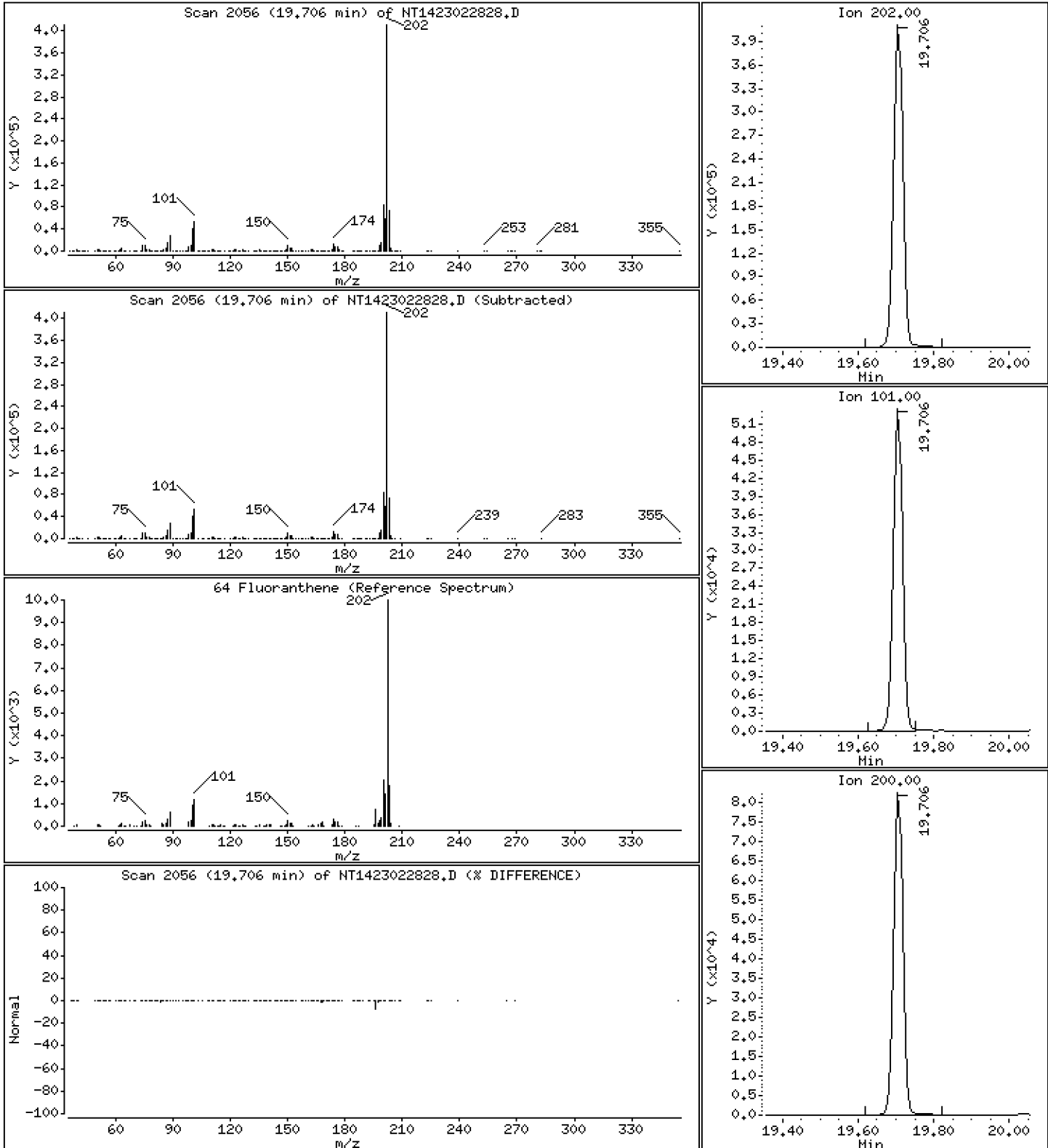
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 5,123 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

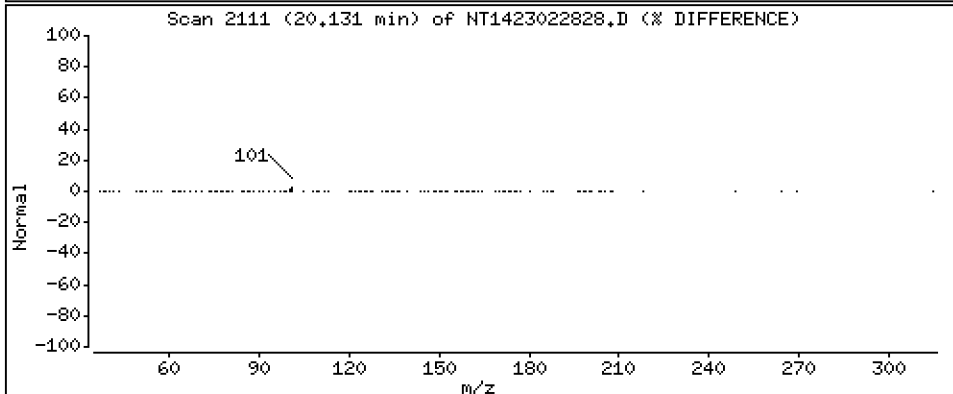
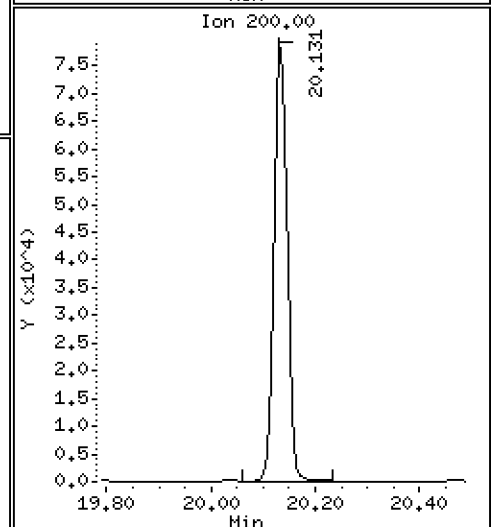
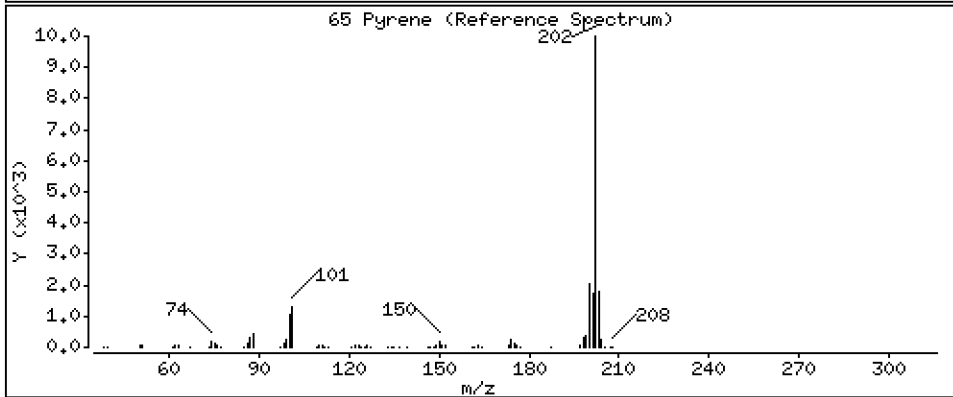
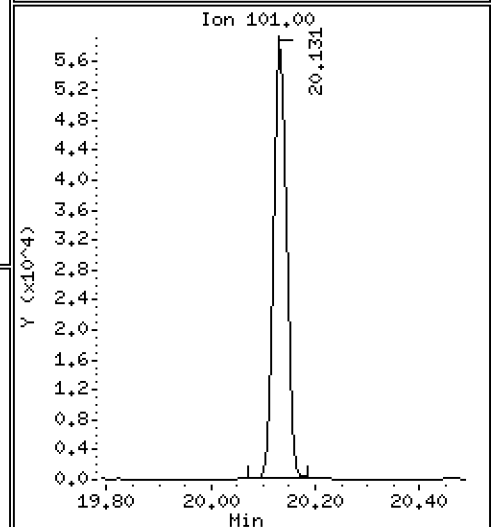
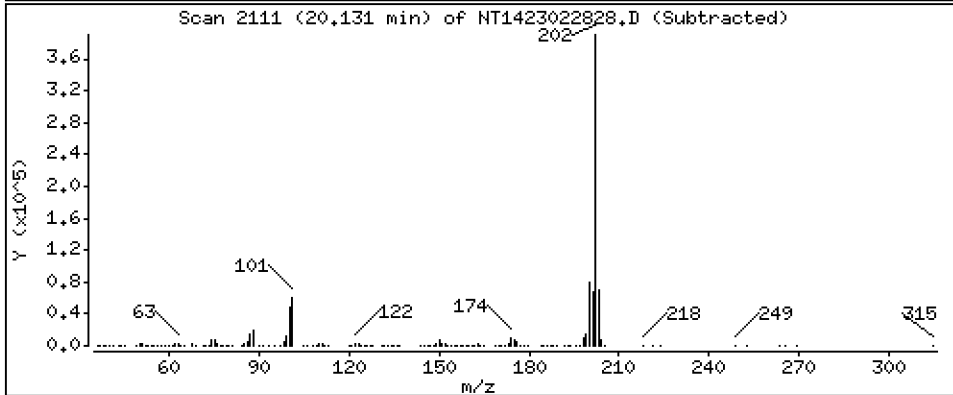
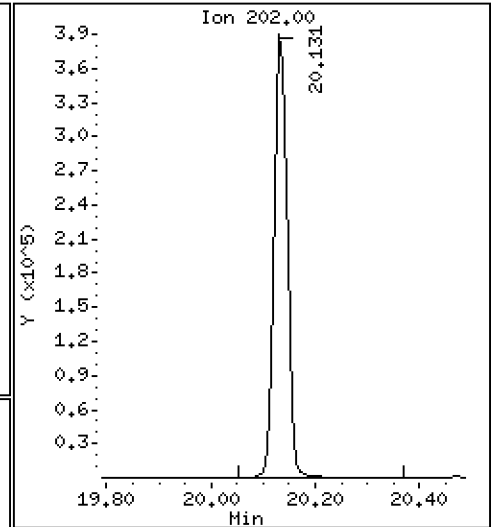
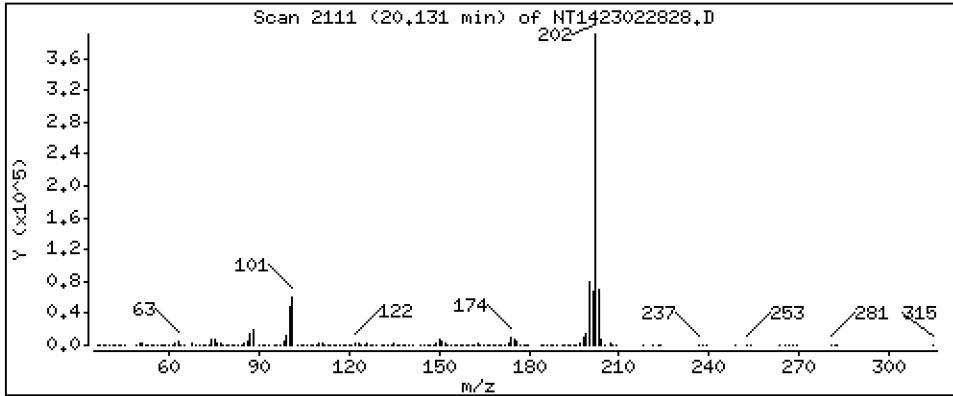
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 5,055 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

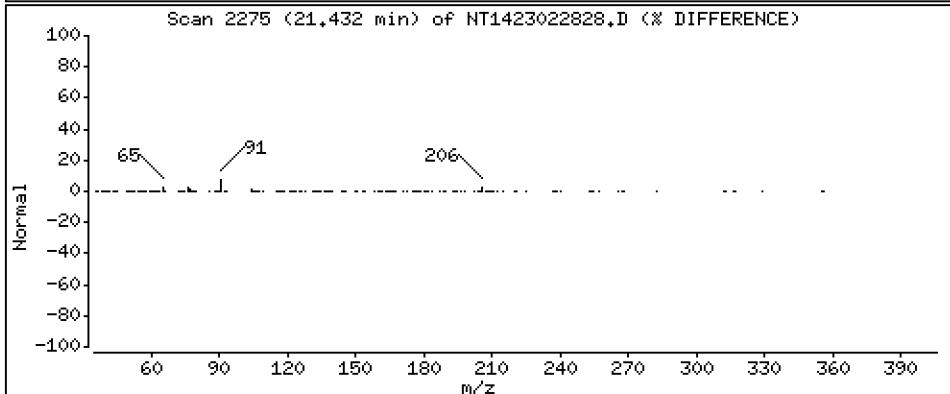
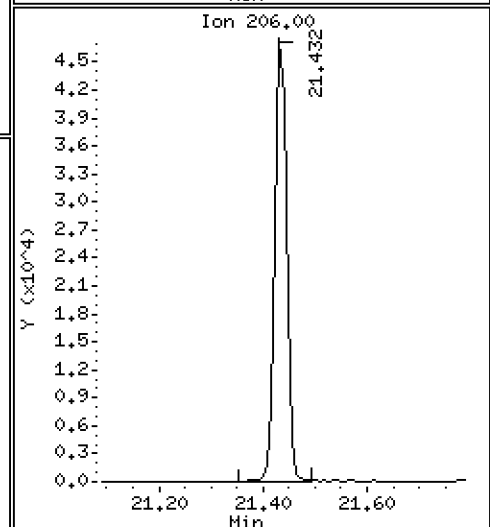
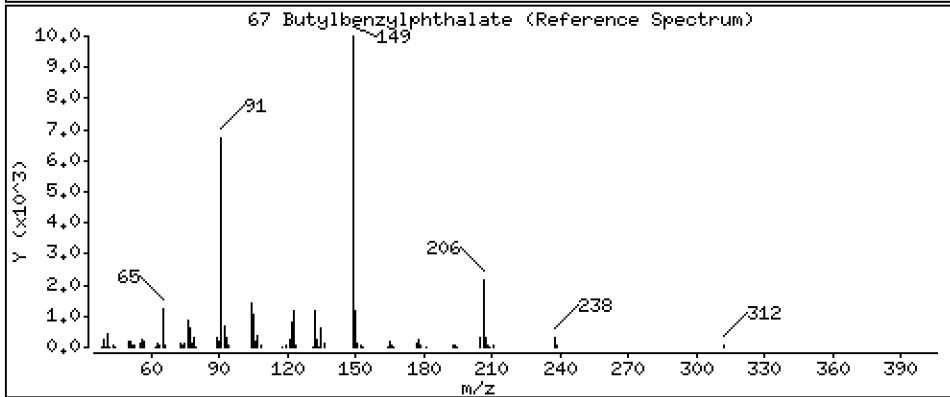
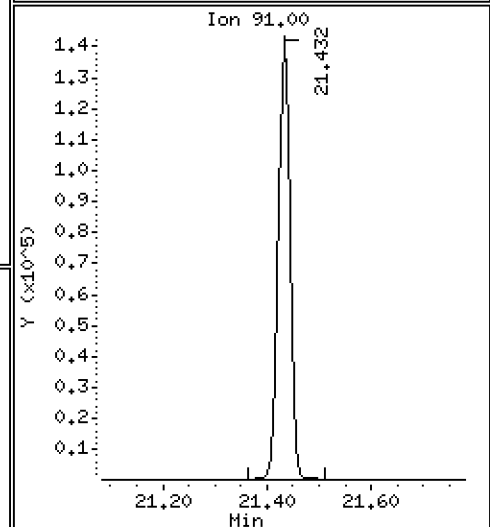
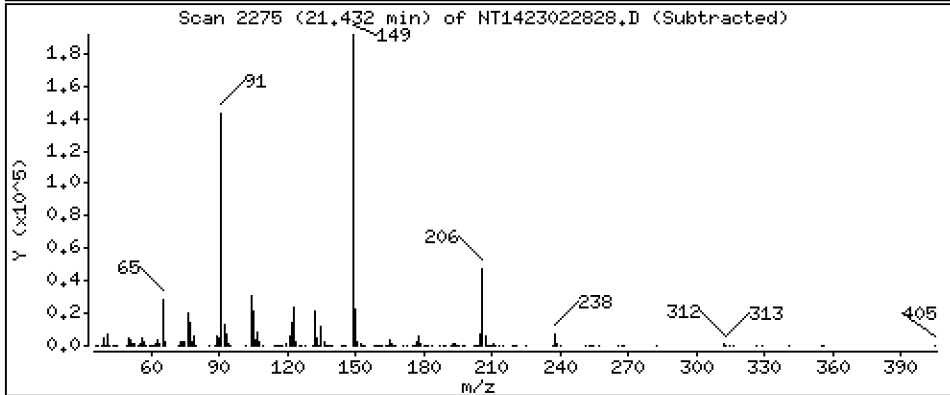
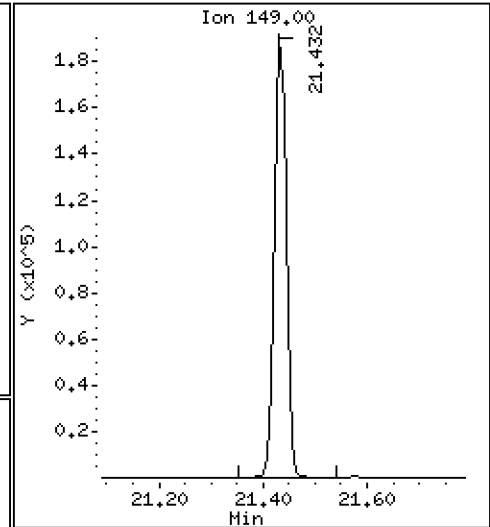
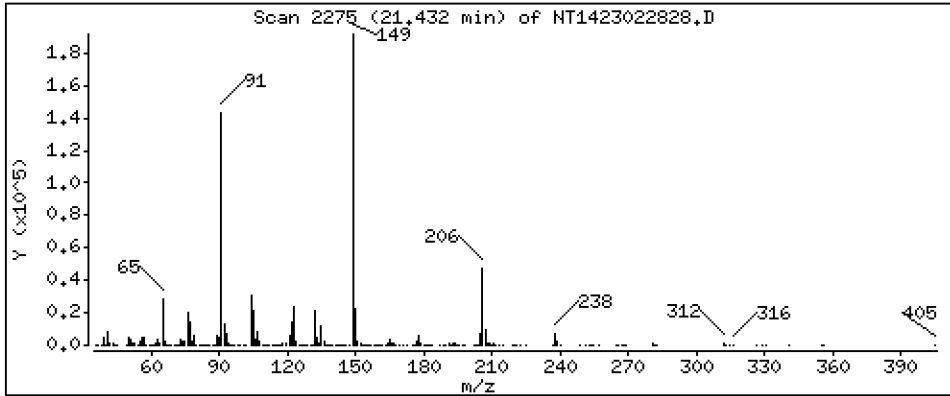
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 5,965 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

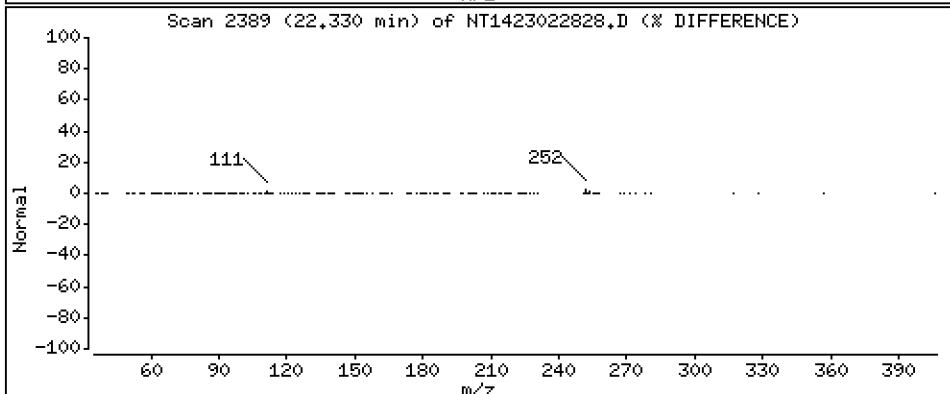
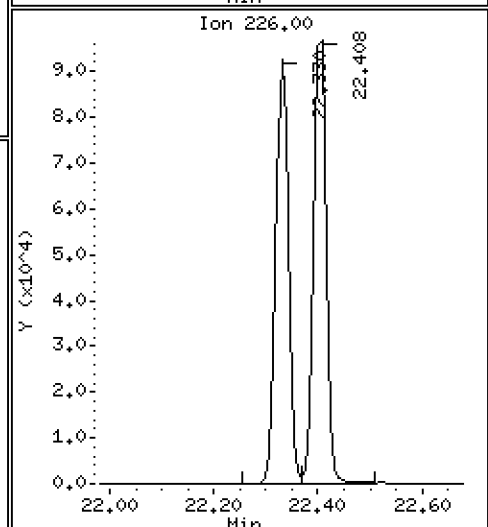
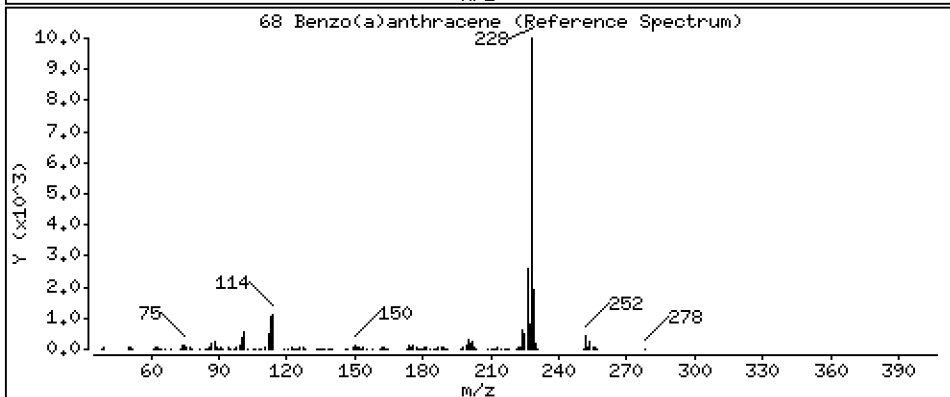
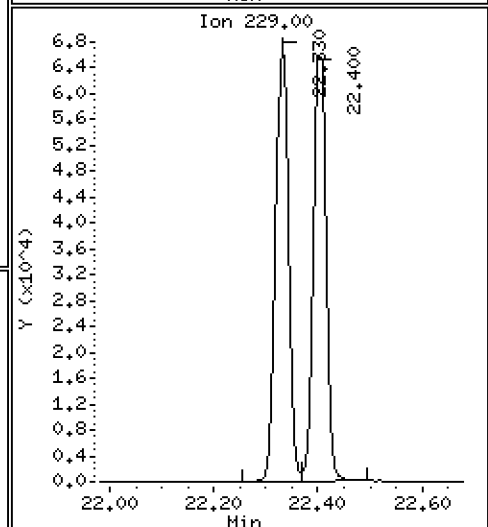
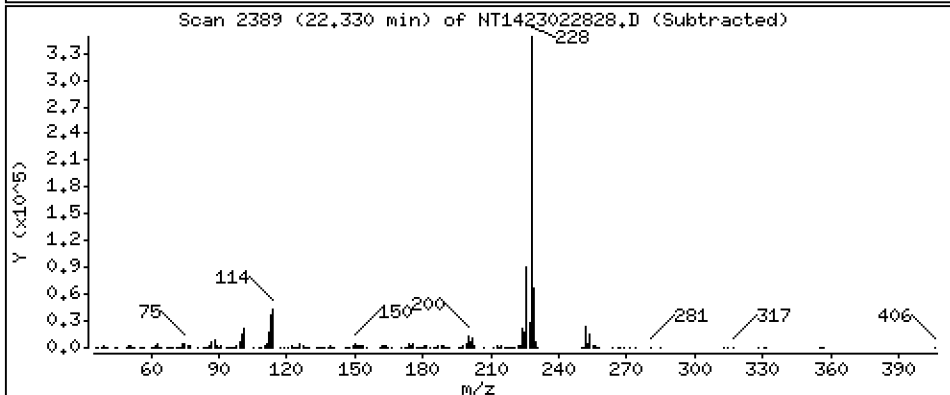
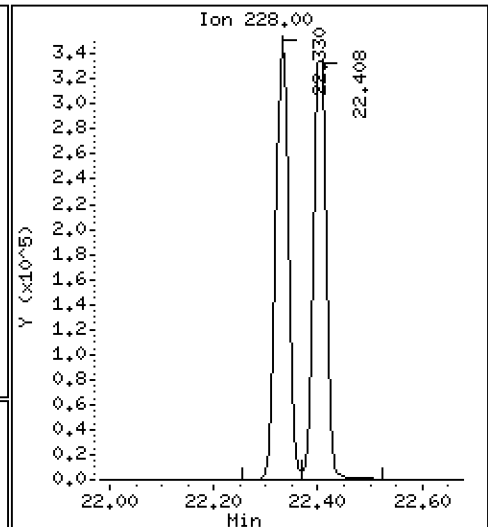
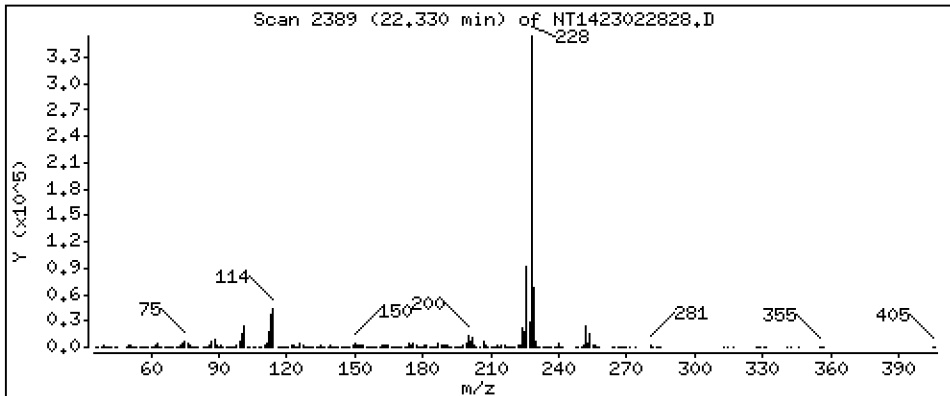
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

68 Benzo(a)anthracene

Concentration: 4.951 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

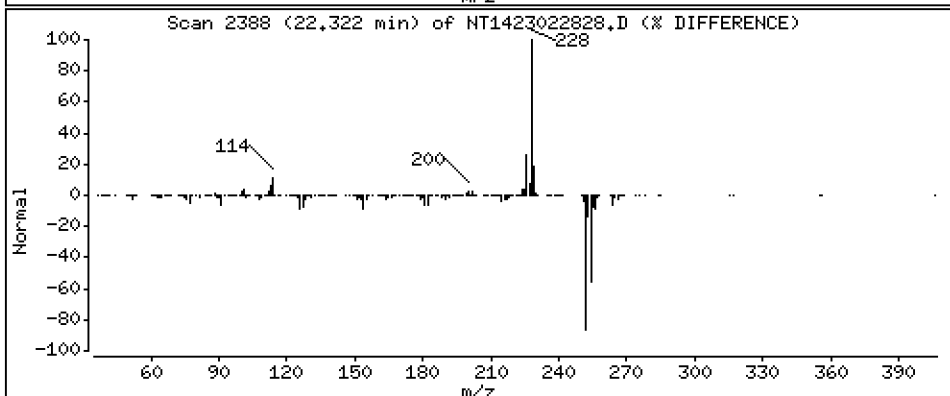
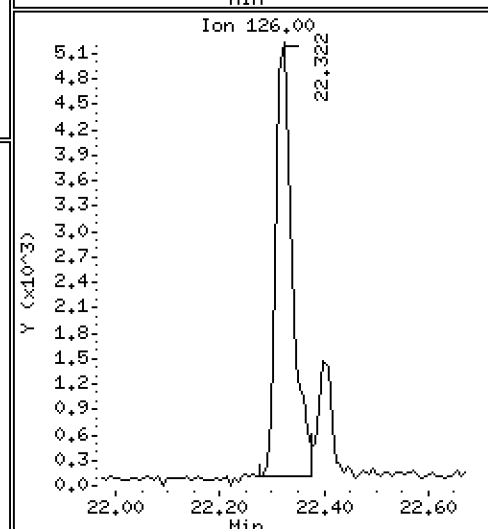
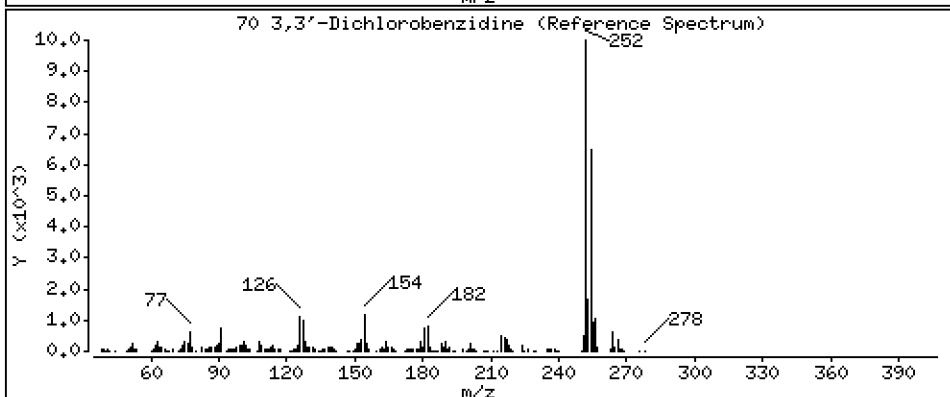
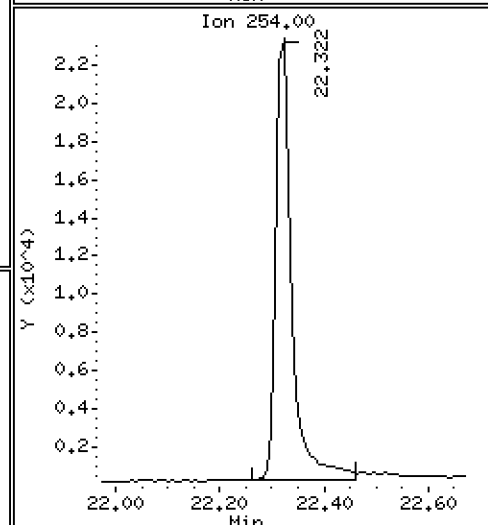
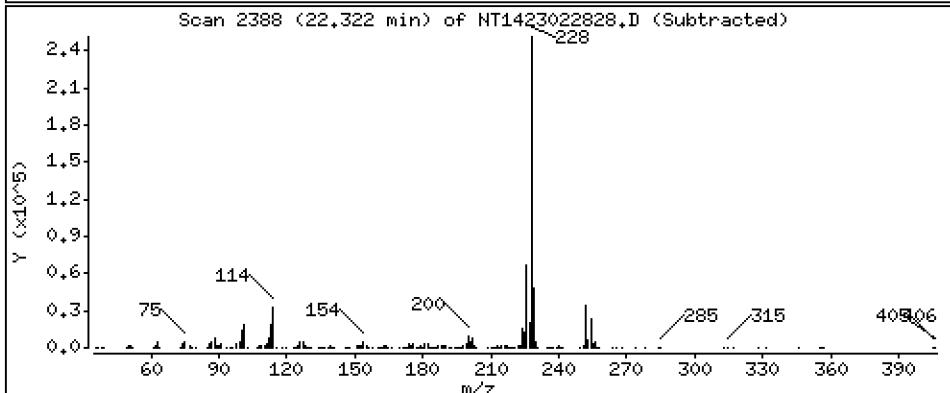
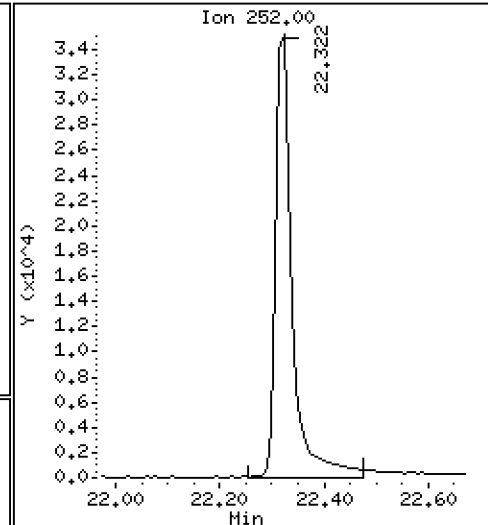
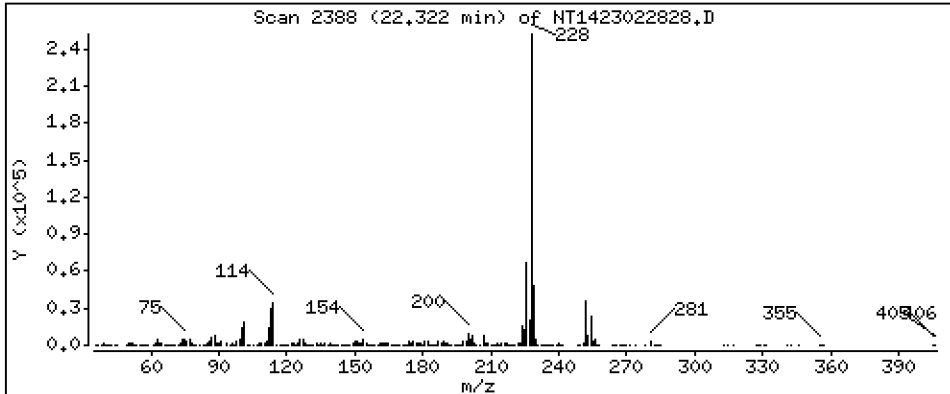
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

70 3,3'-Dichlorobenzidine

Concentration: 2,242 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

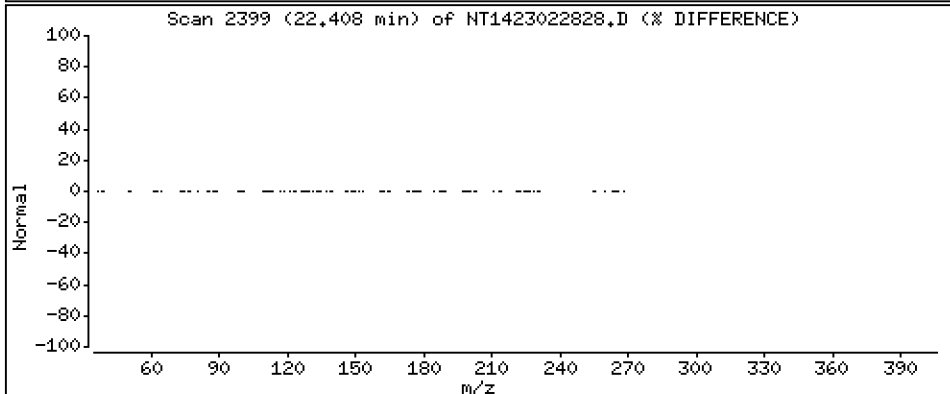
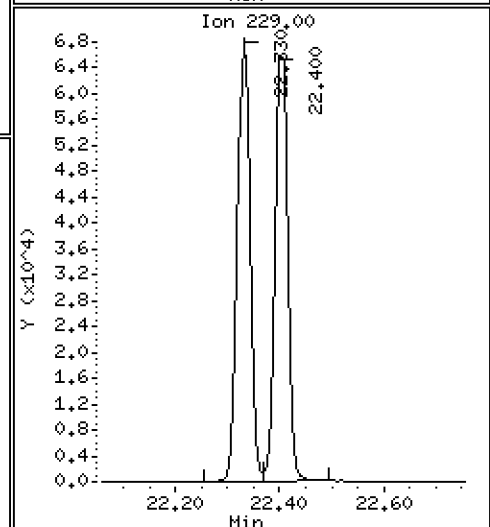
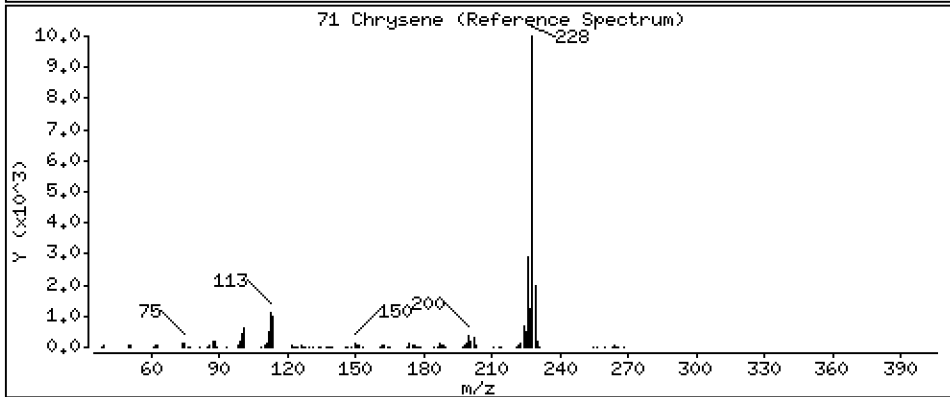
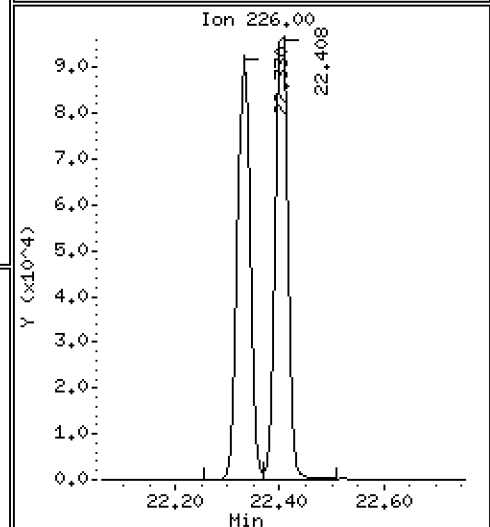
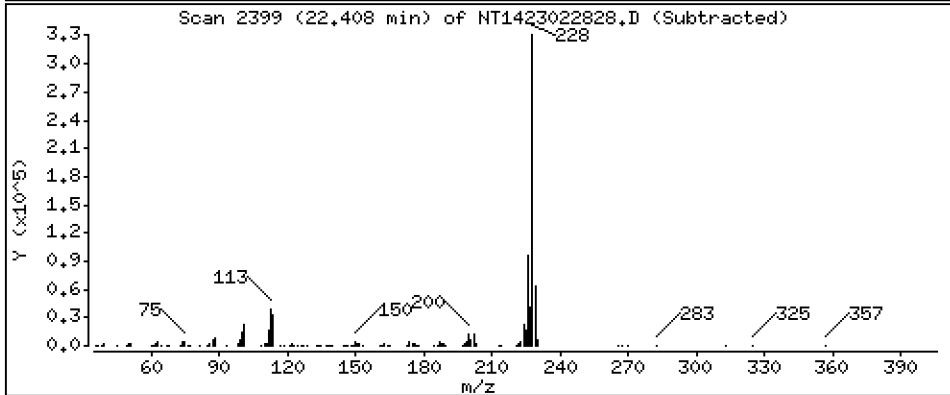
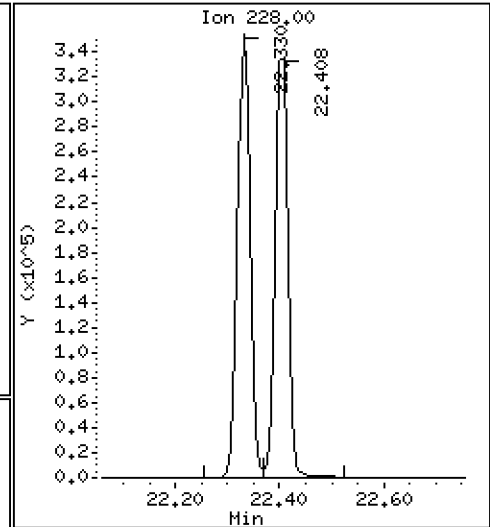
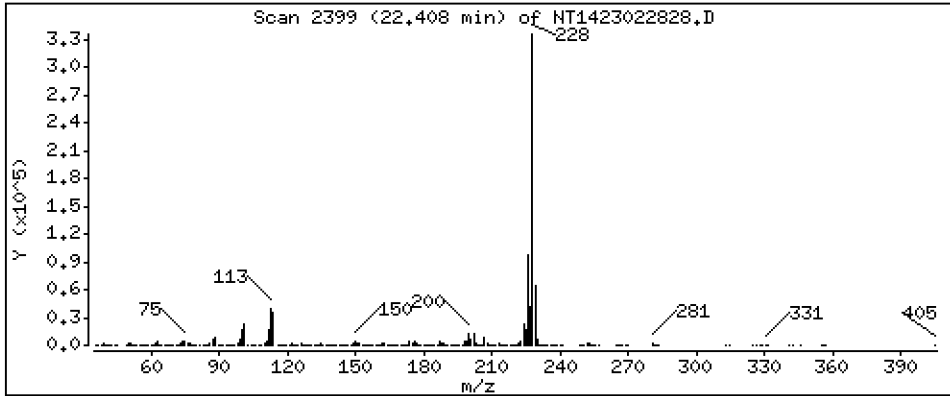
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 4,837 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

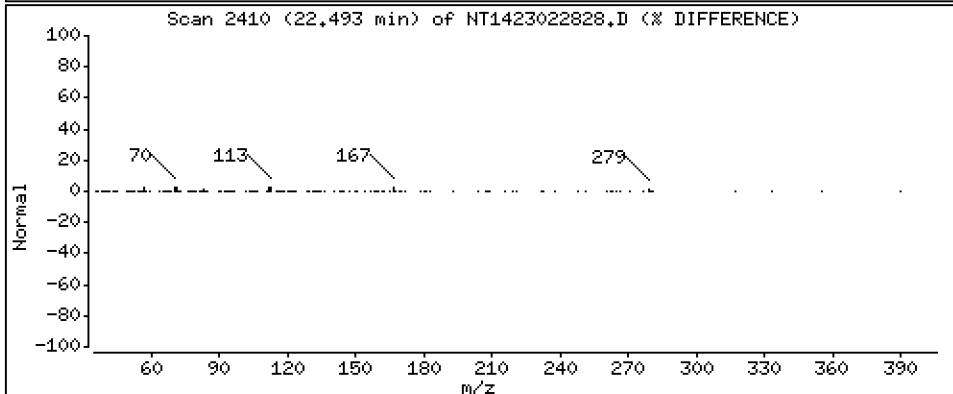
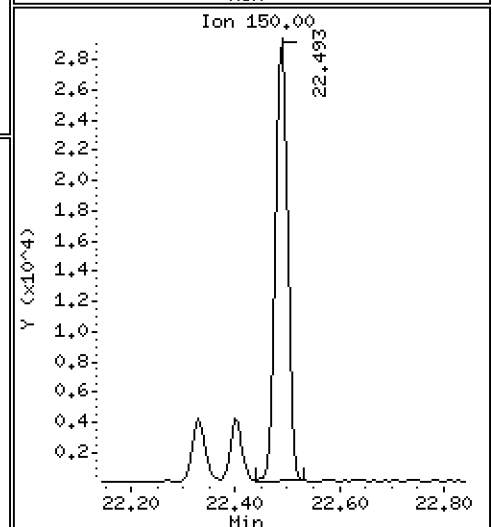
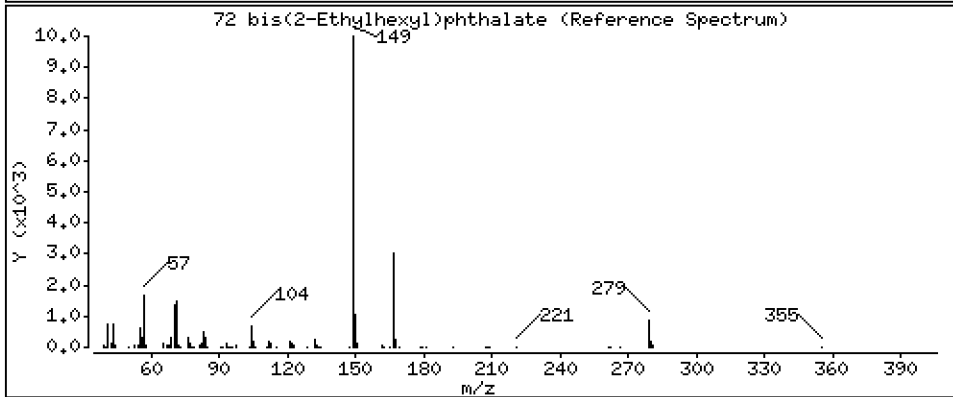
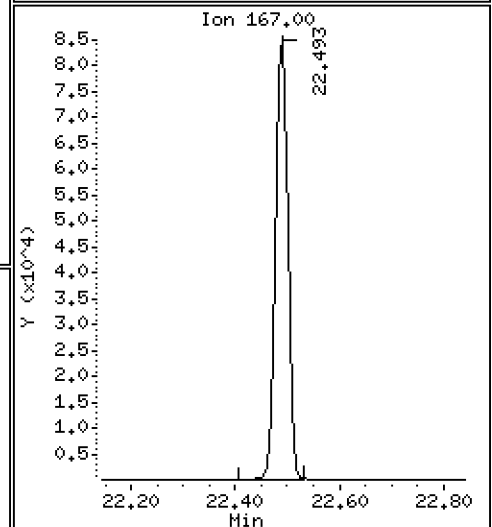
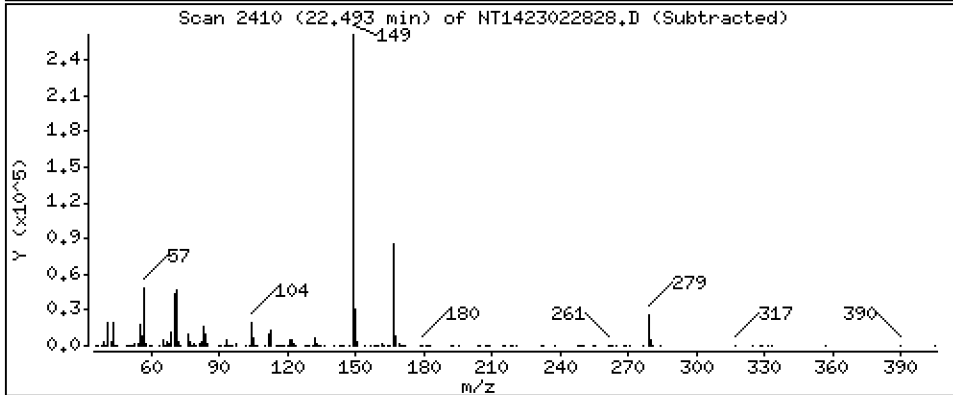
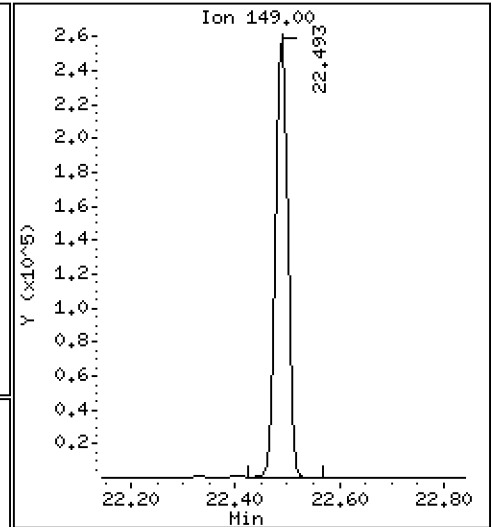
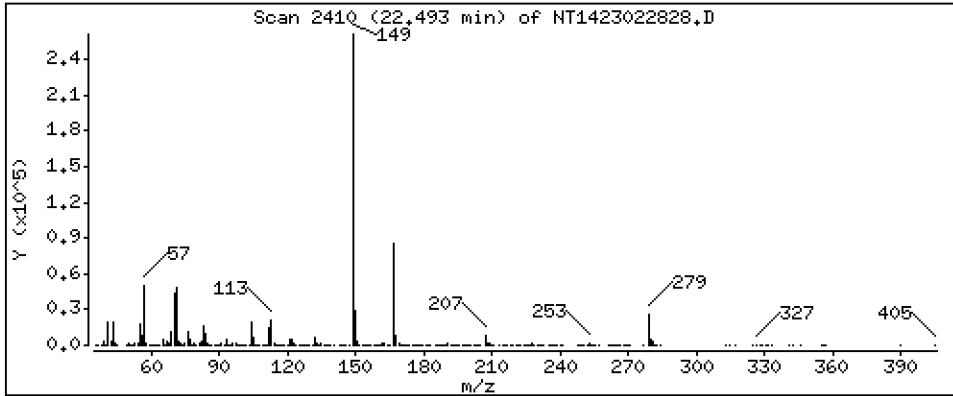
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 5,218 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

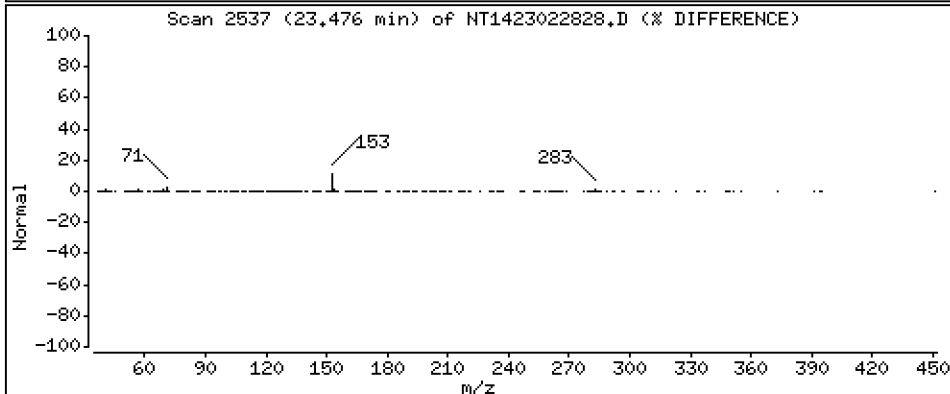
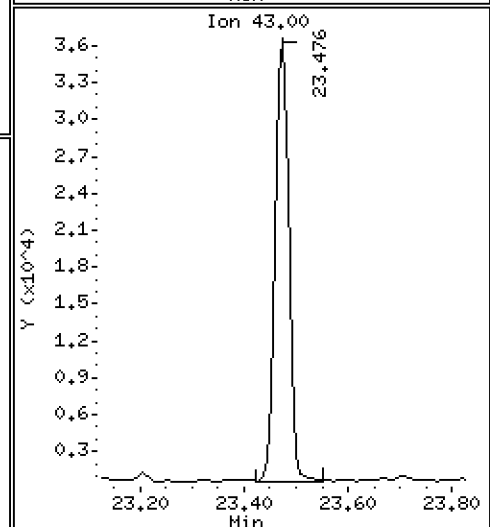
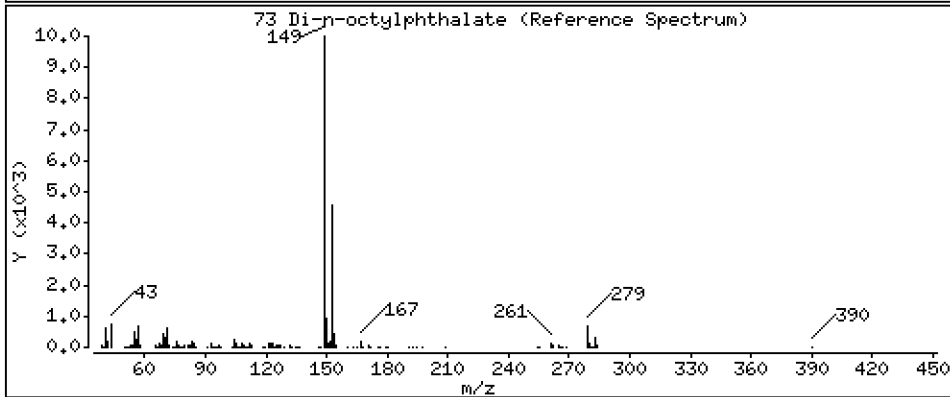
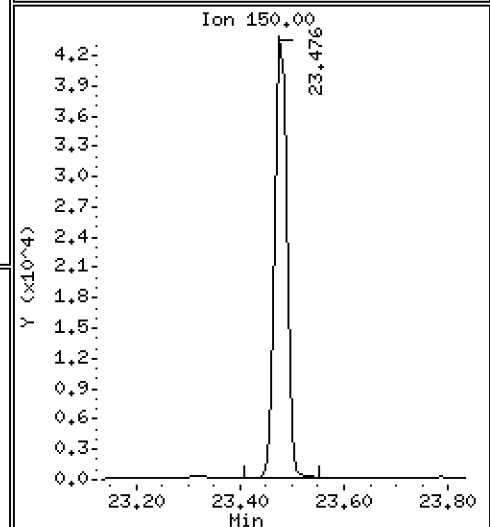
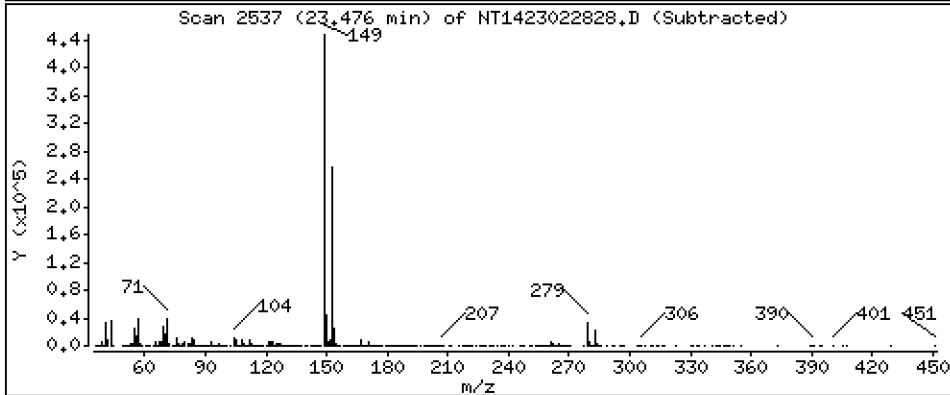
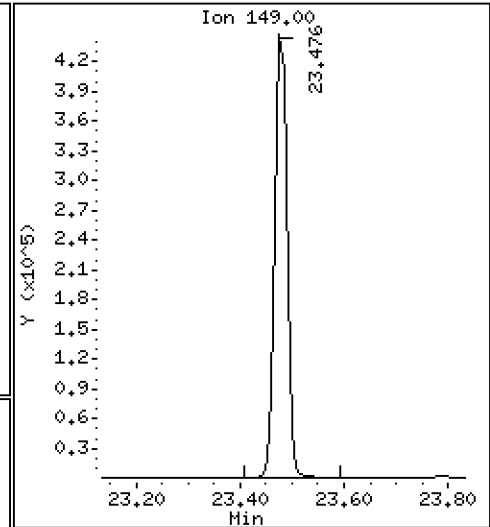
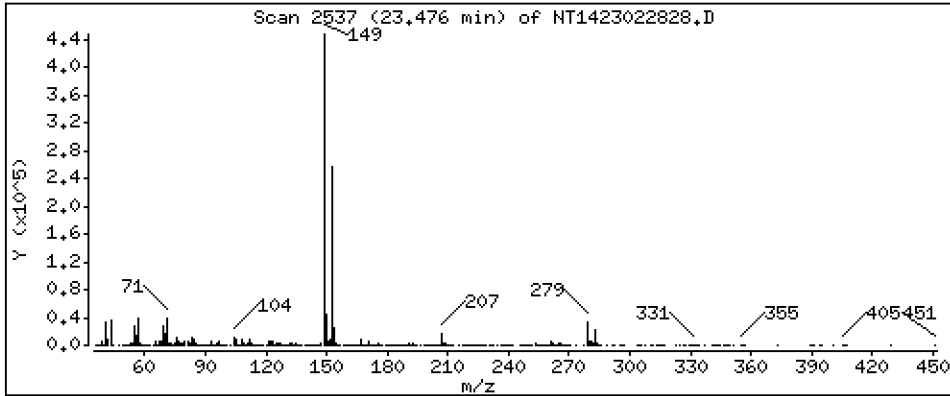
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 5,152 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

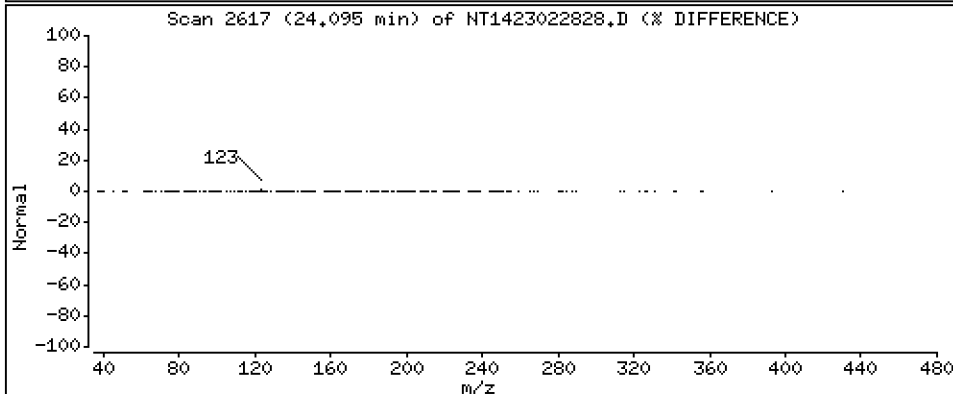
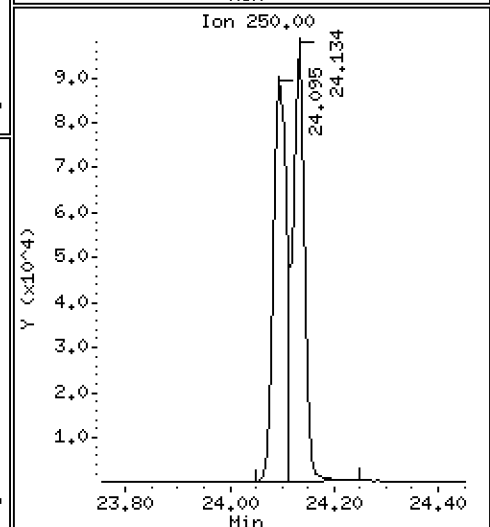
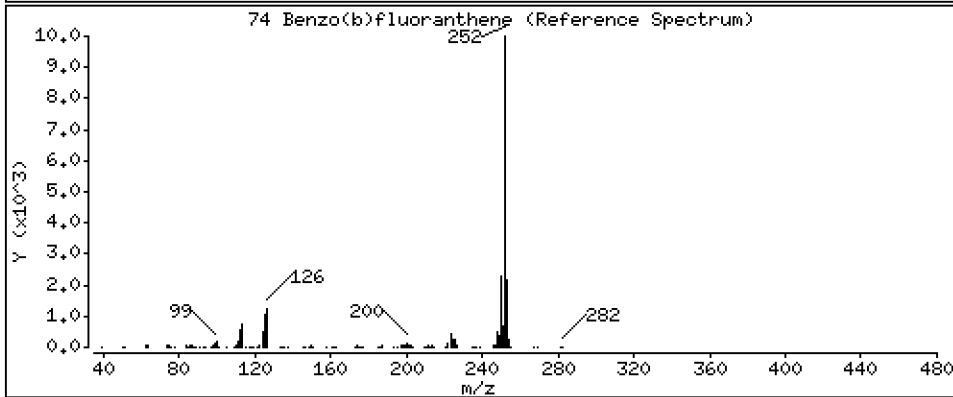
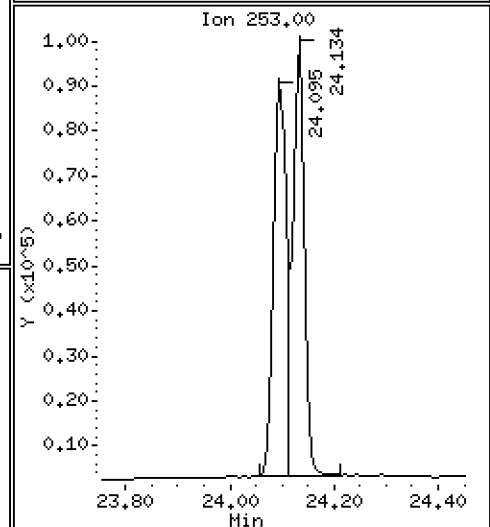
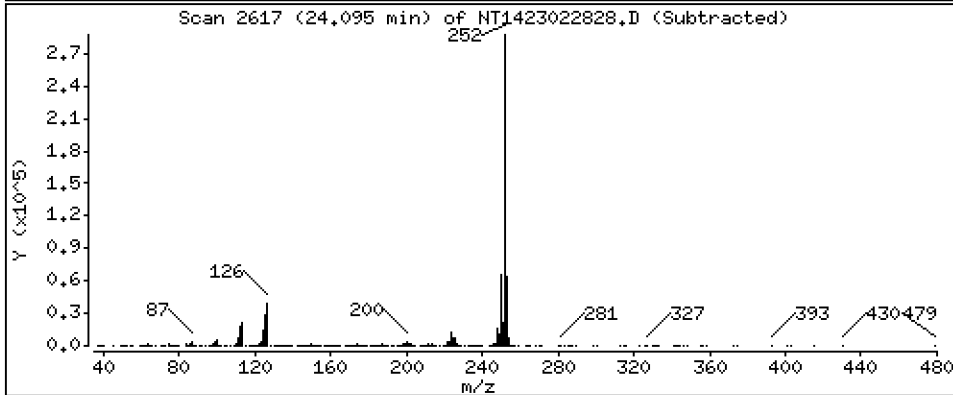
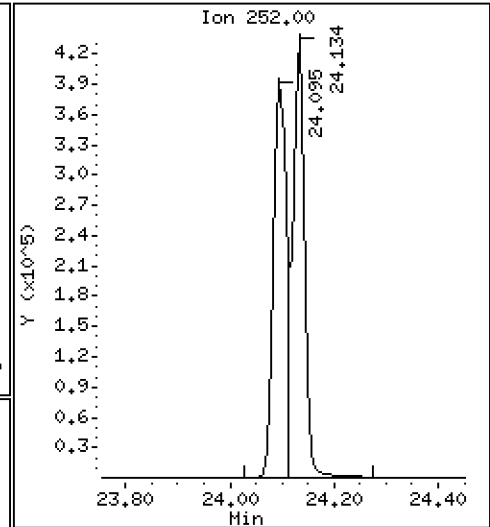
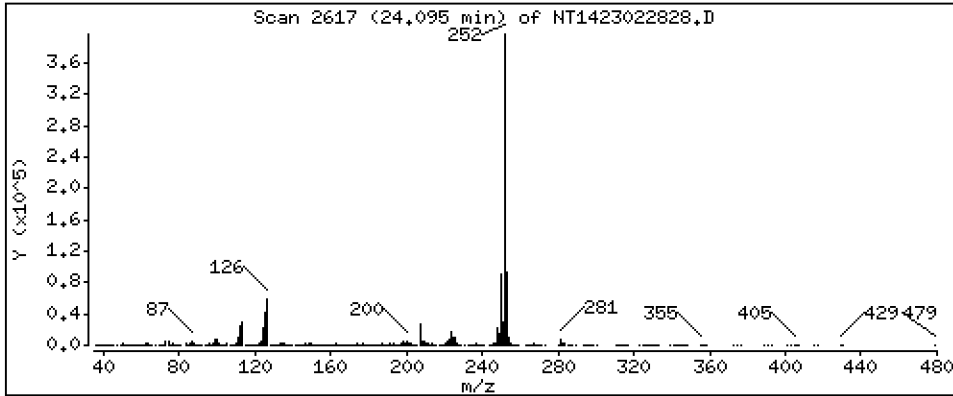
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 4,898 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

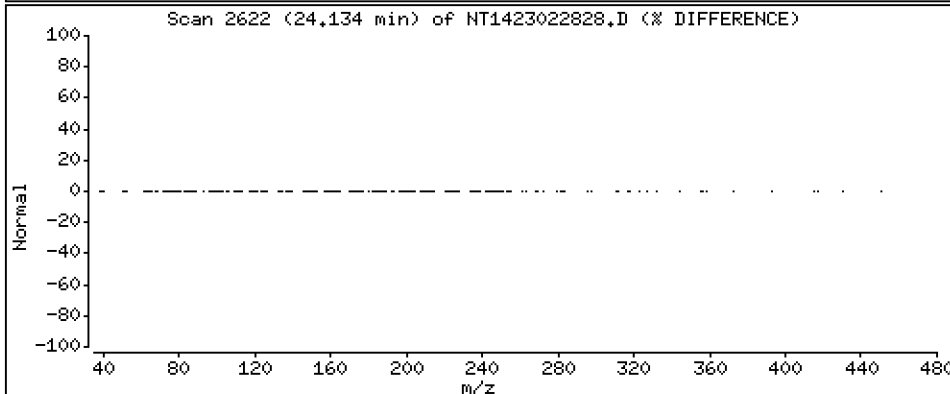
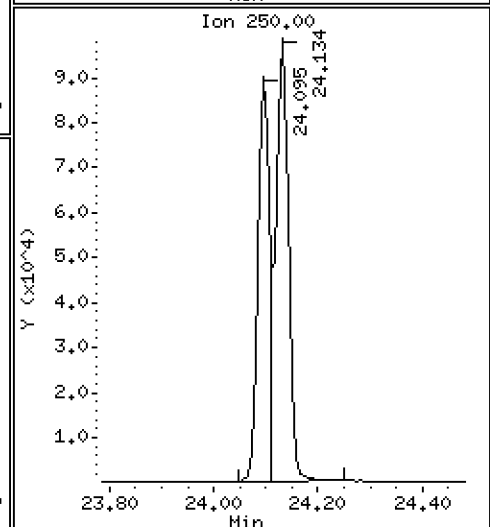
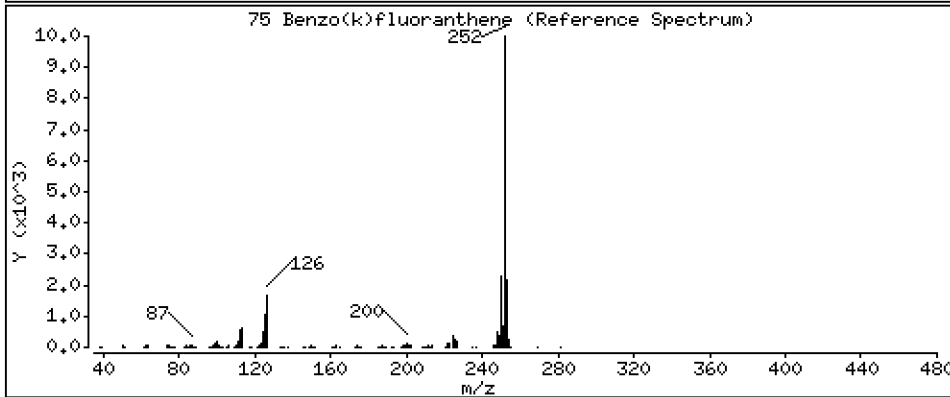
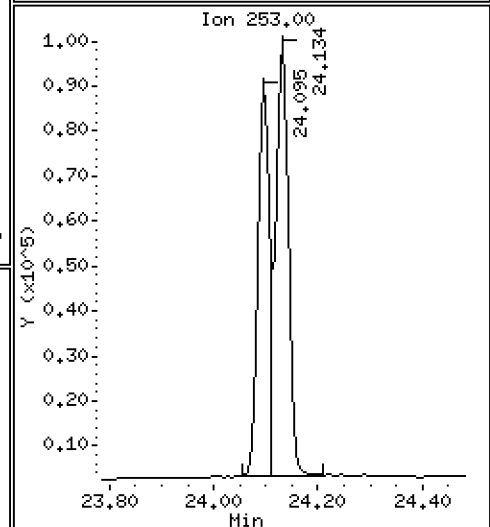
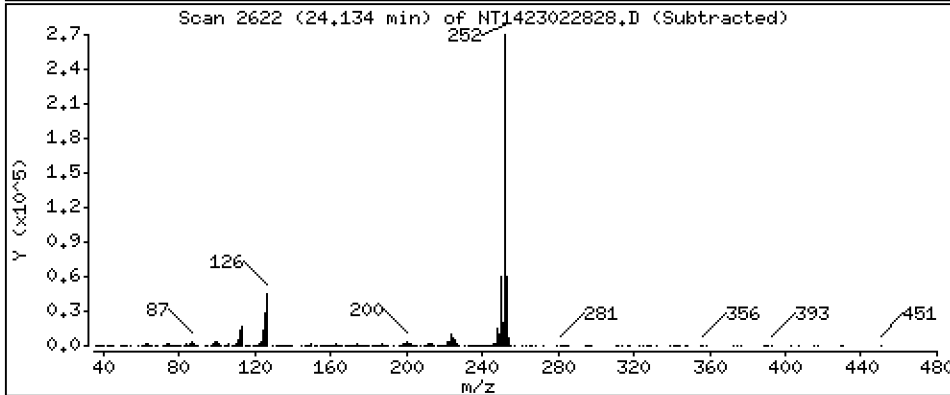
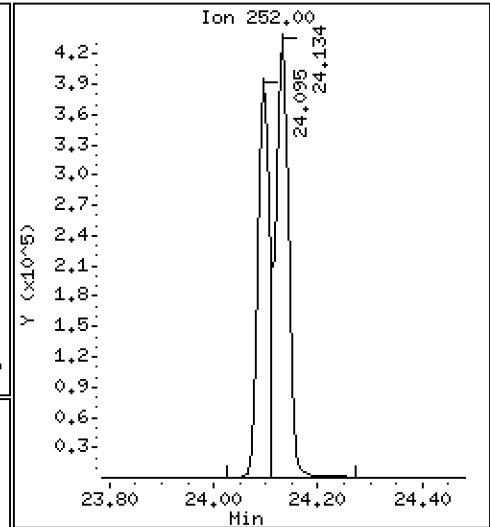
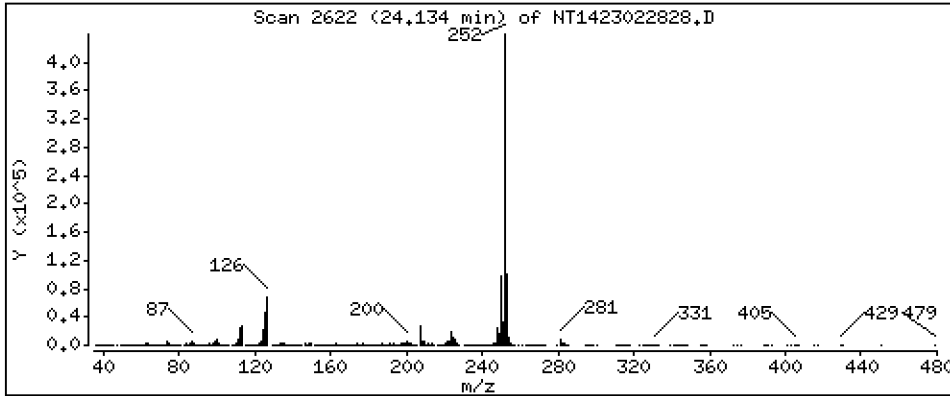
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 5,377 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

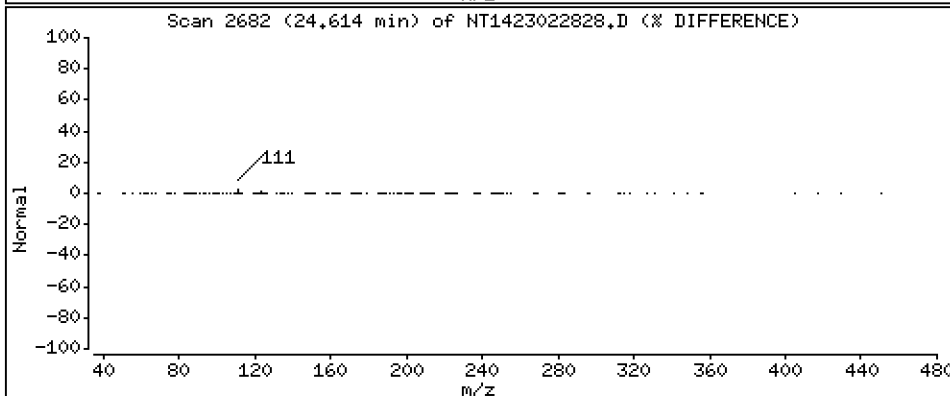
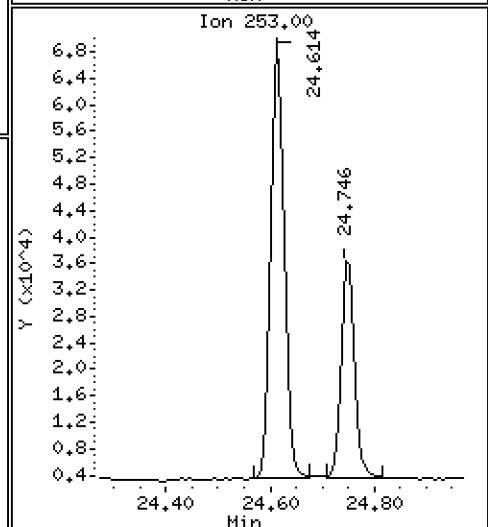
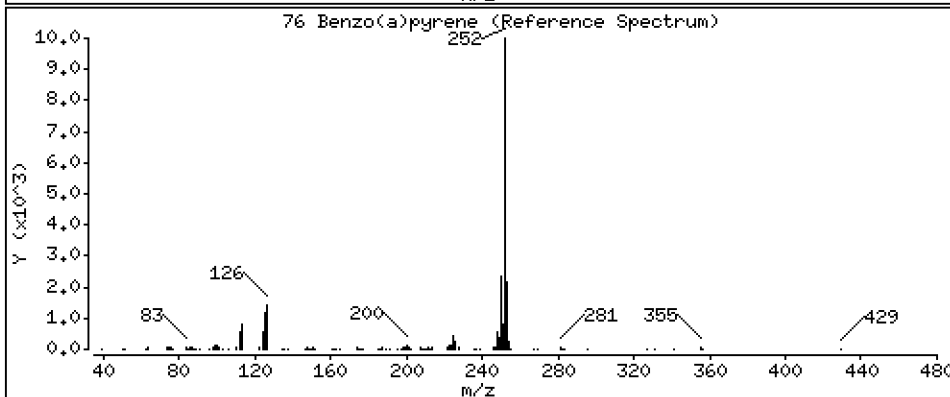
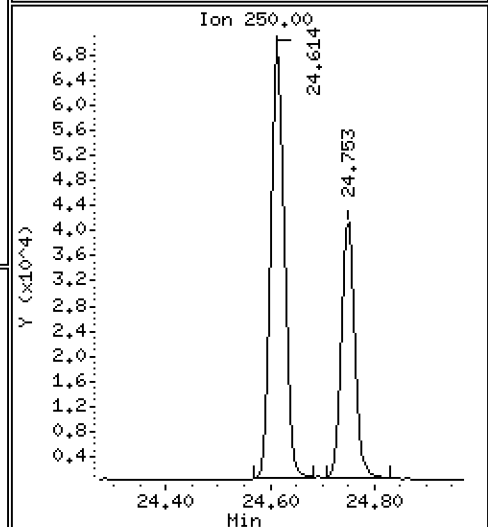
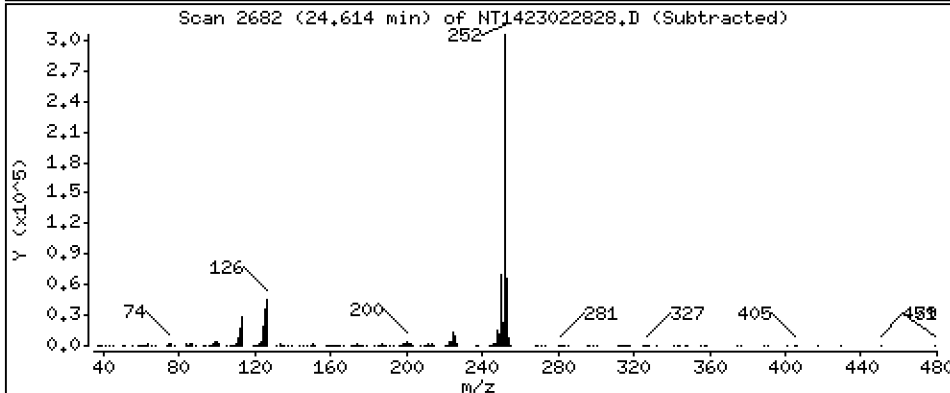
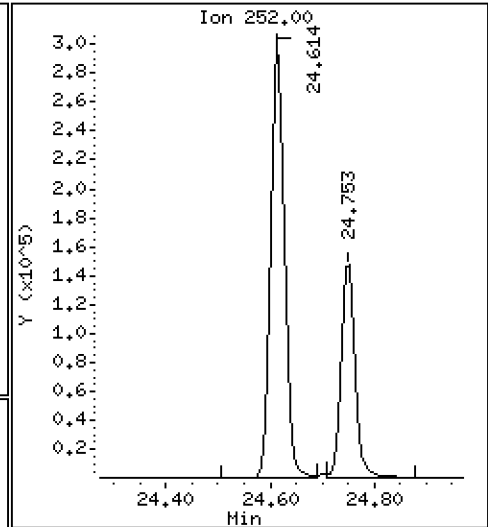
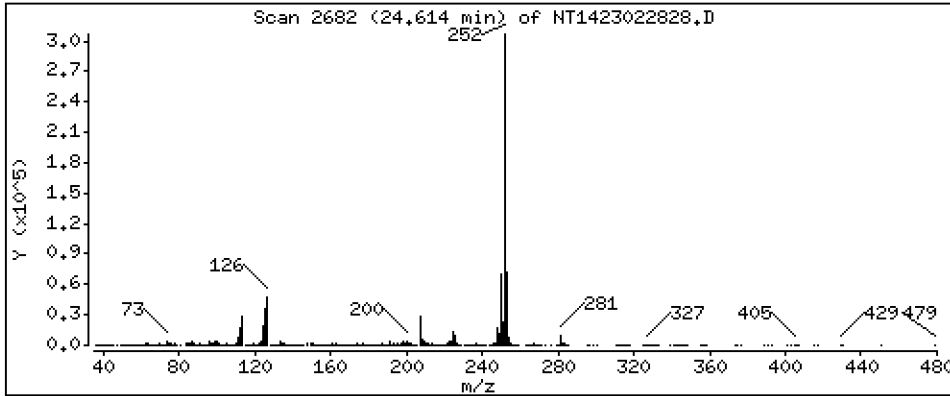
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 4,725 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

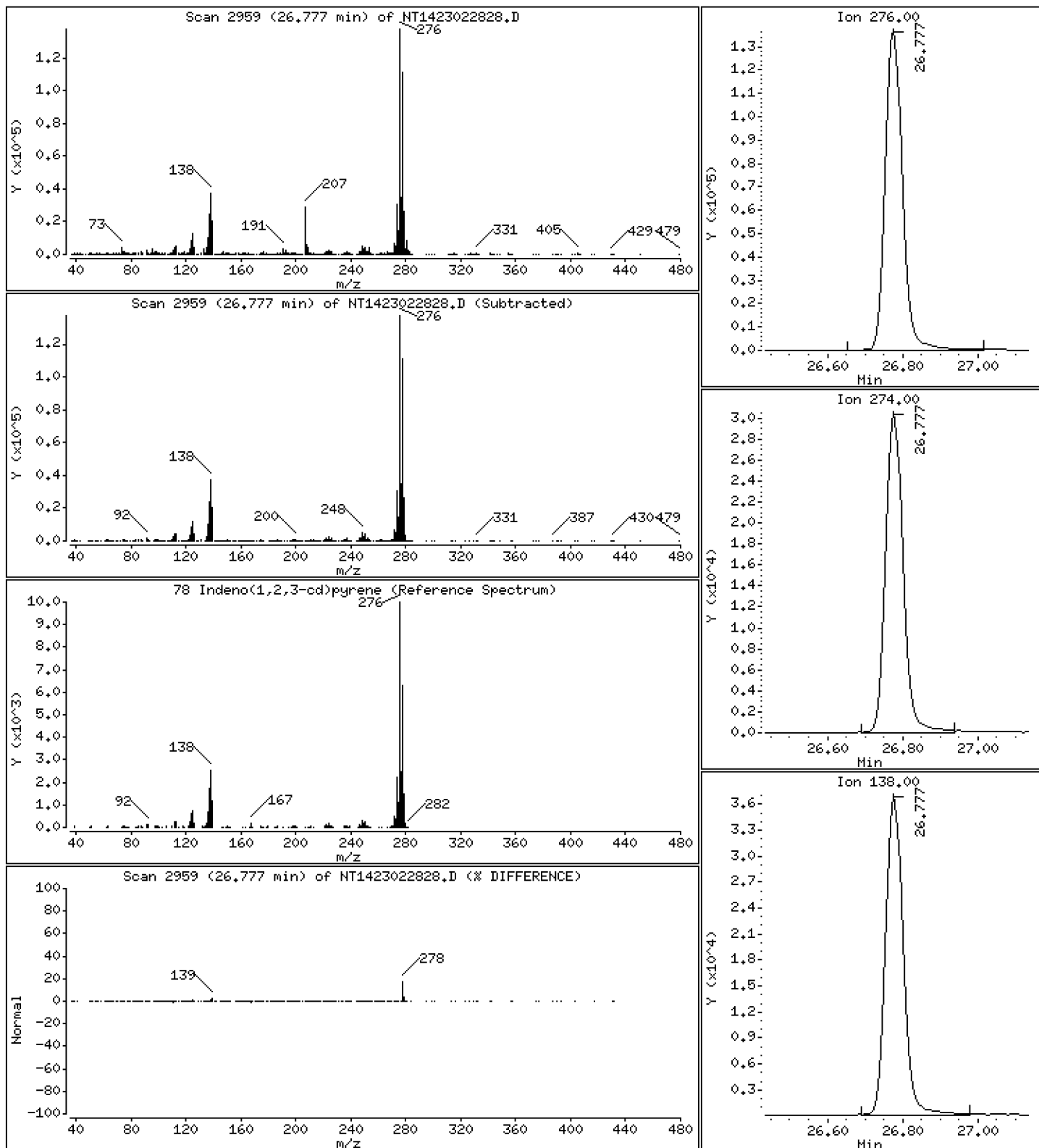
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 3,056 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

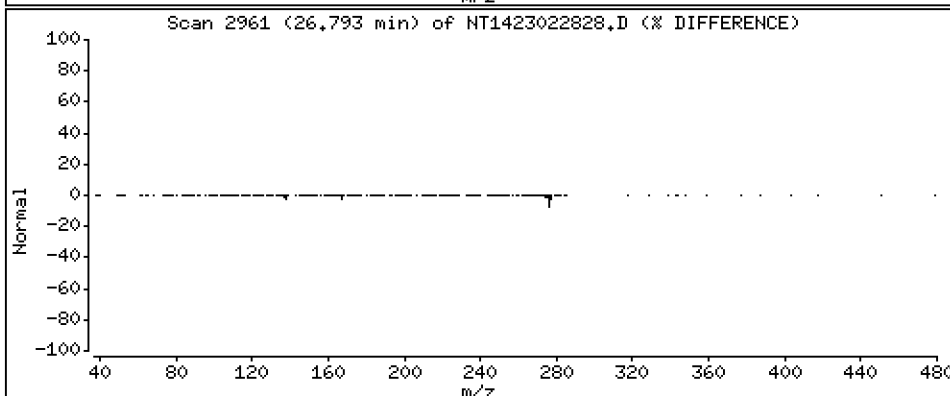
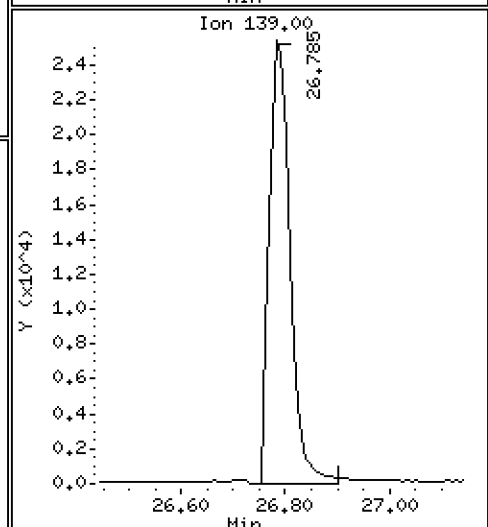
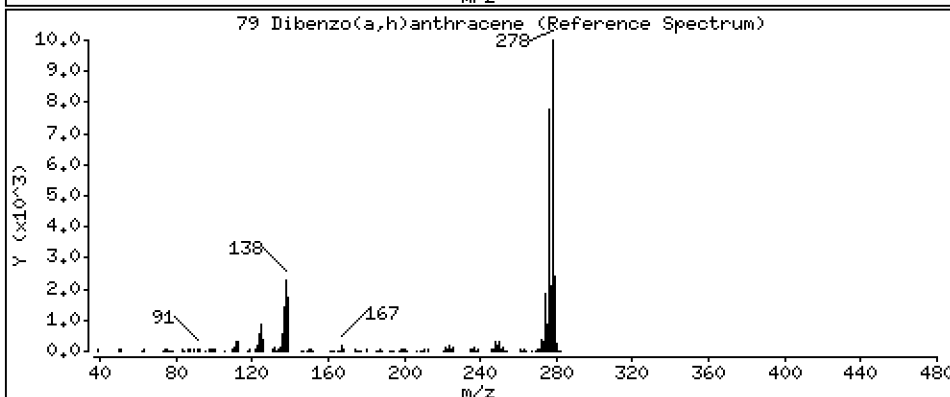
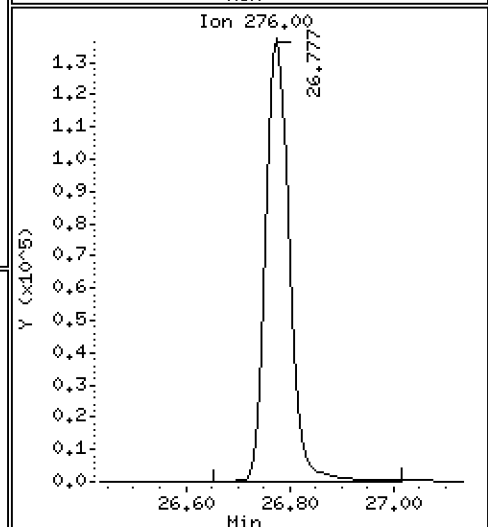
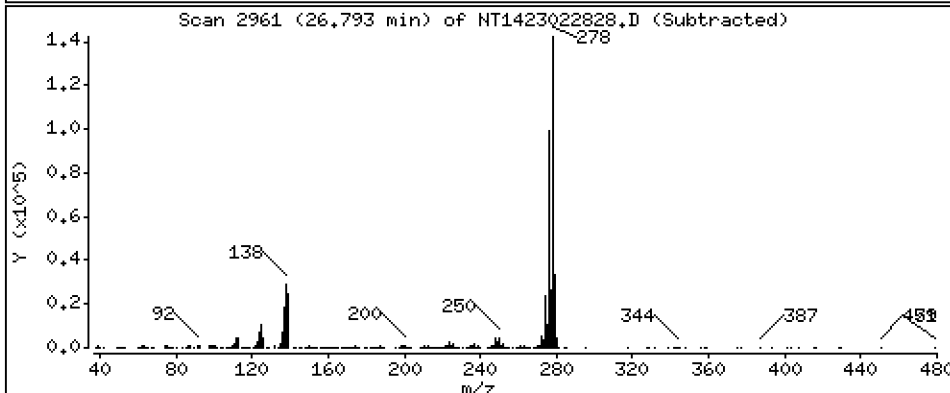
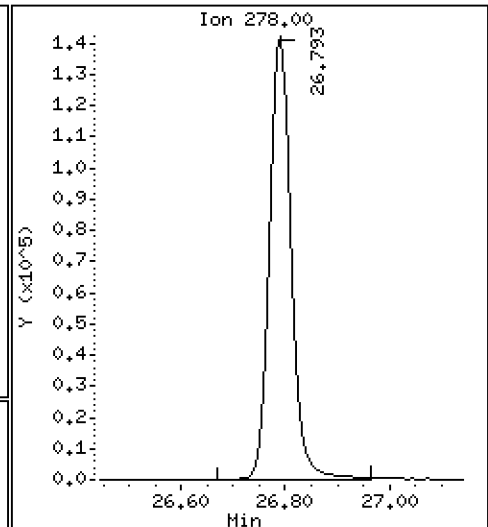
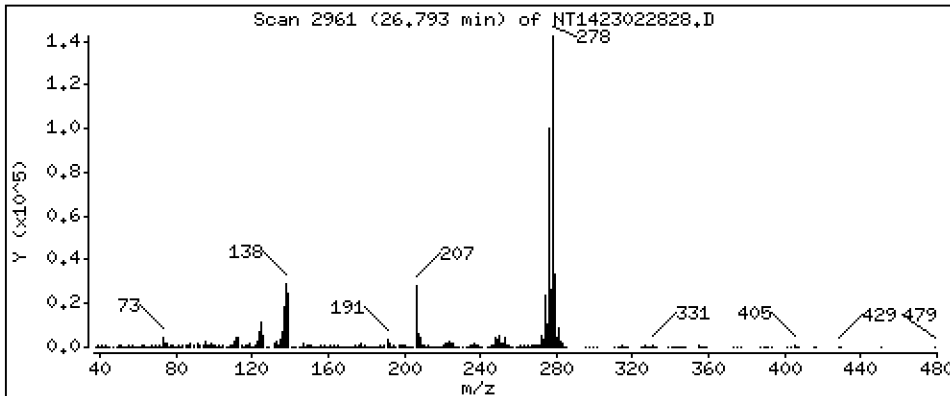
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 3,344 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

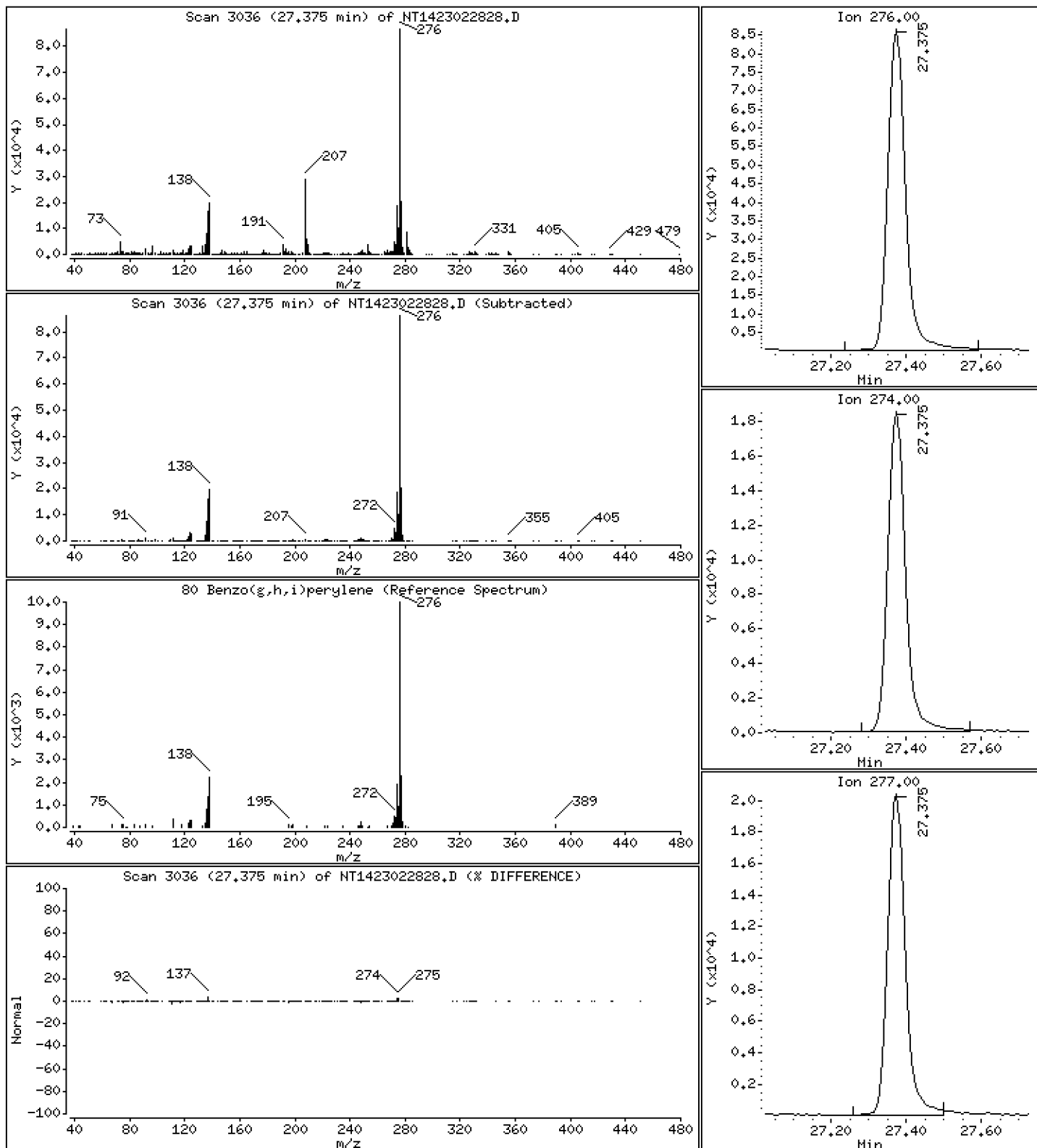
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 2,244 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

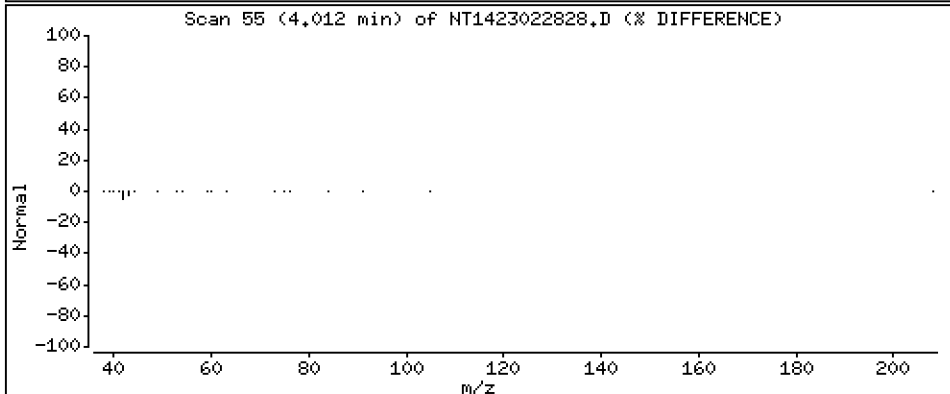
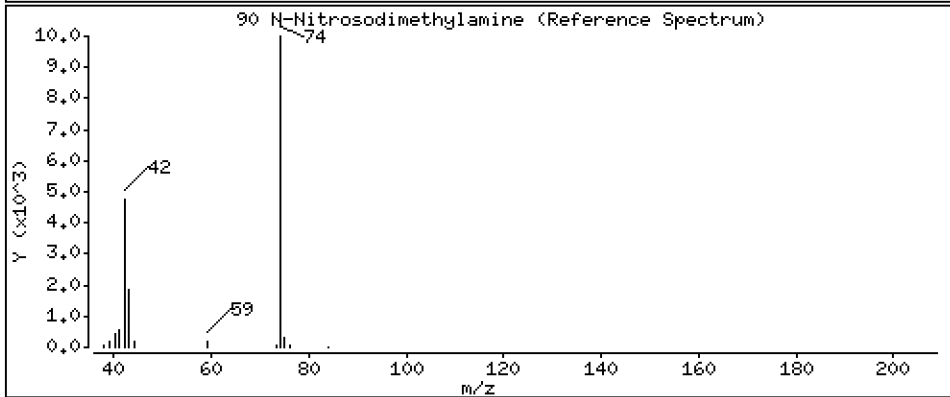
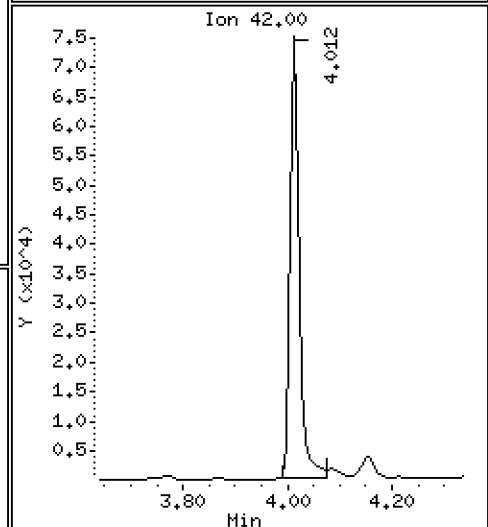
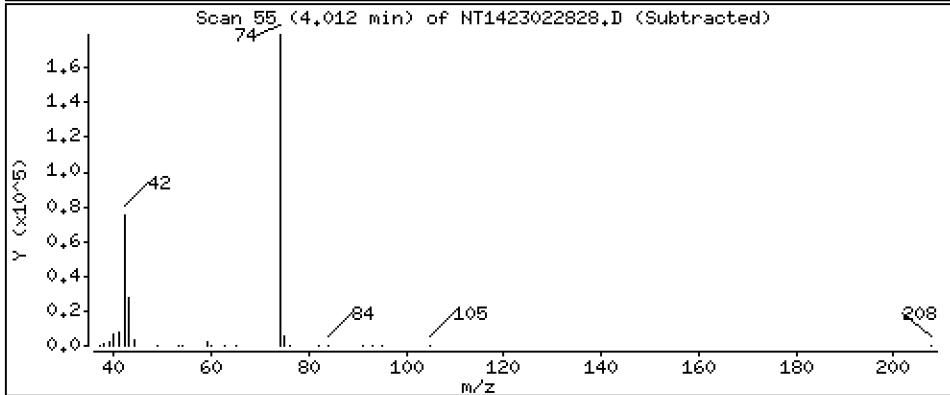
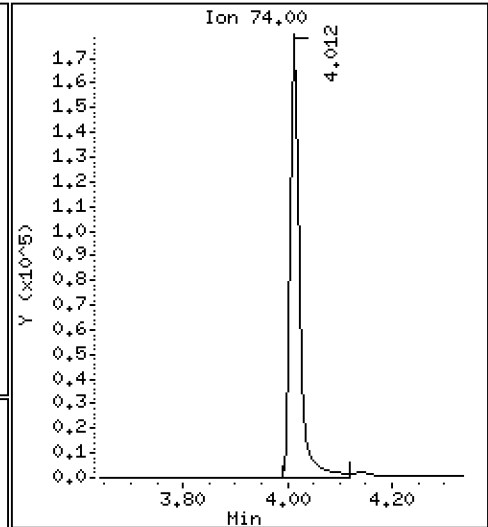
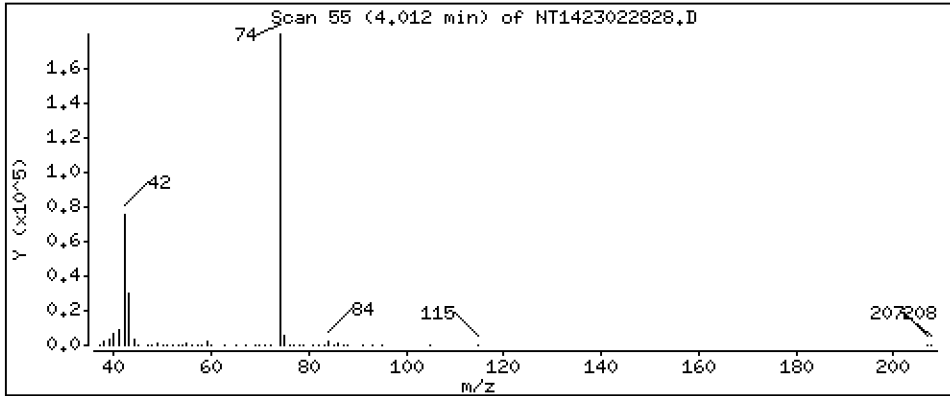
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

90 N-Nitrosodimethylamine

Concentration: 11,25 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

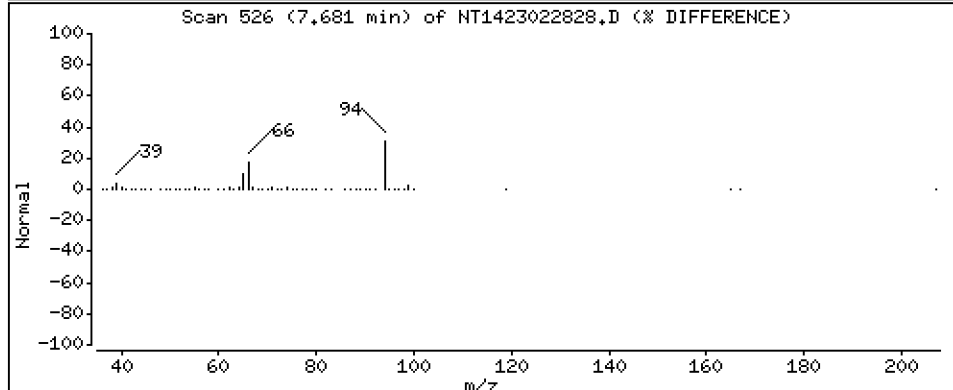
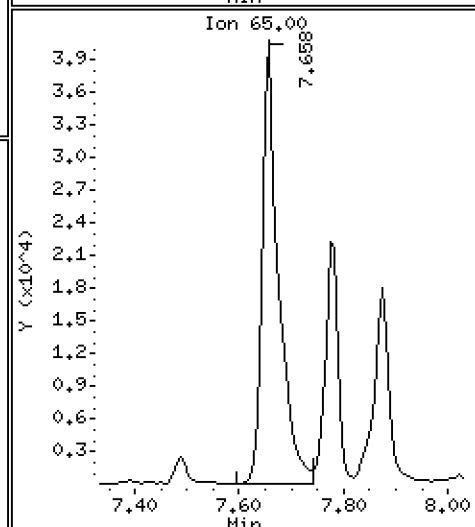
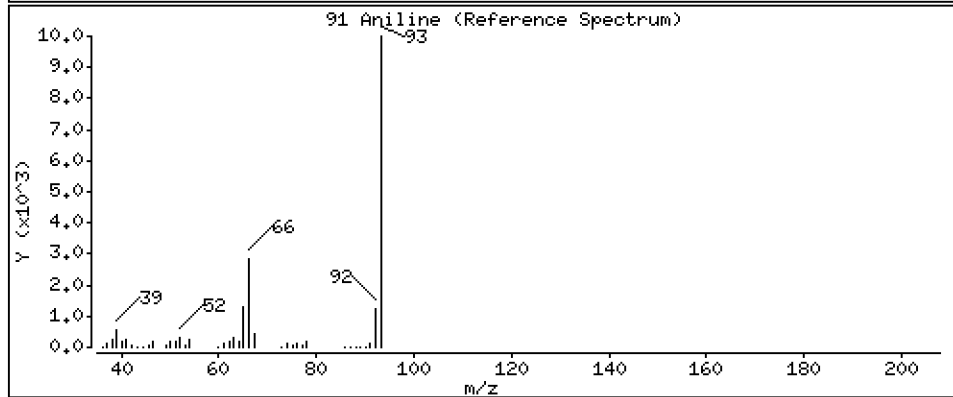
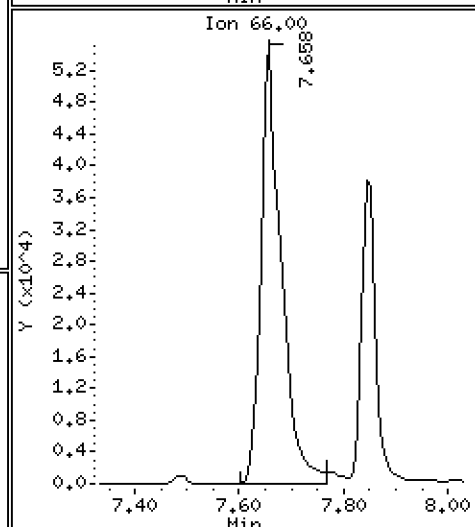
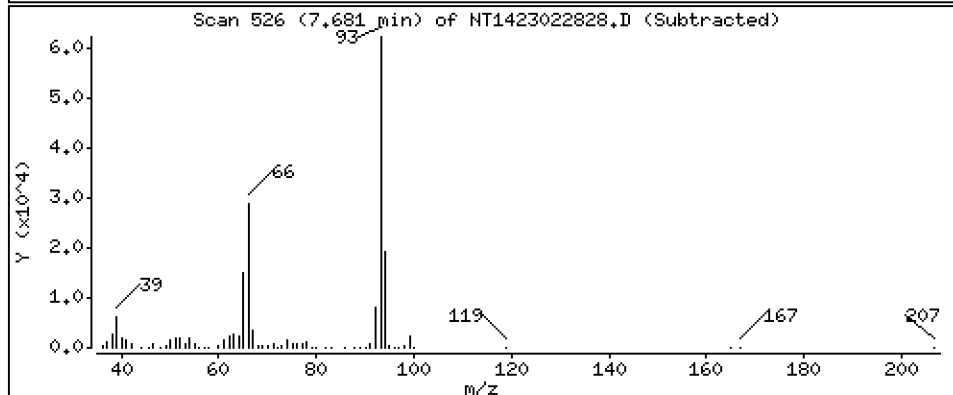
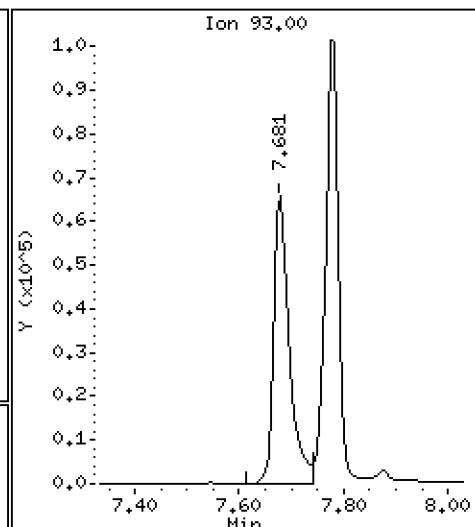
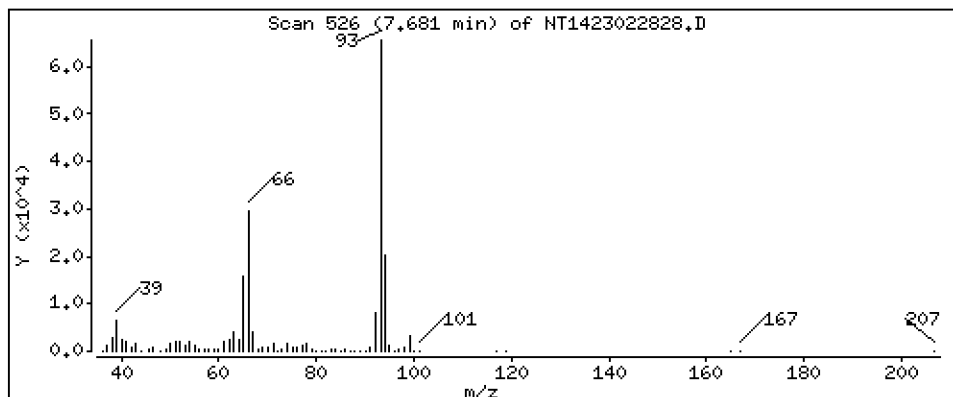
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

91 Aniline

Concentration: 2,508 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

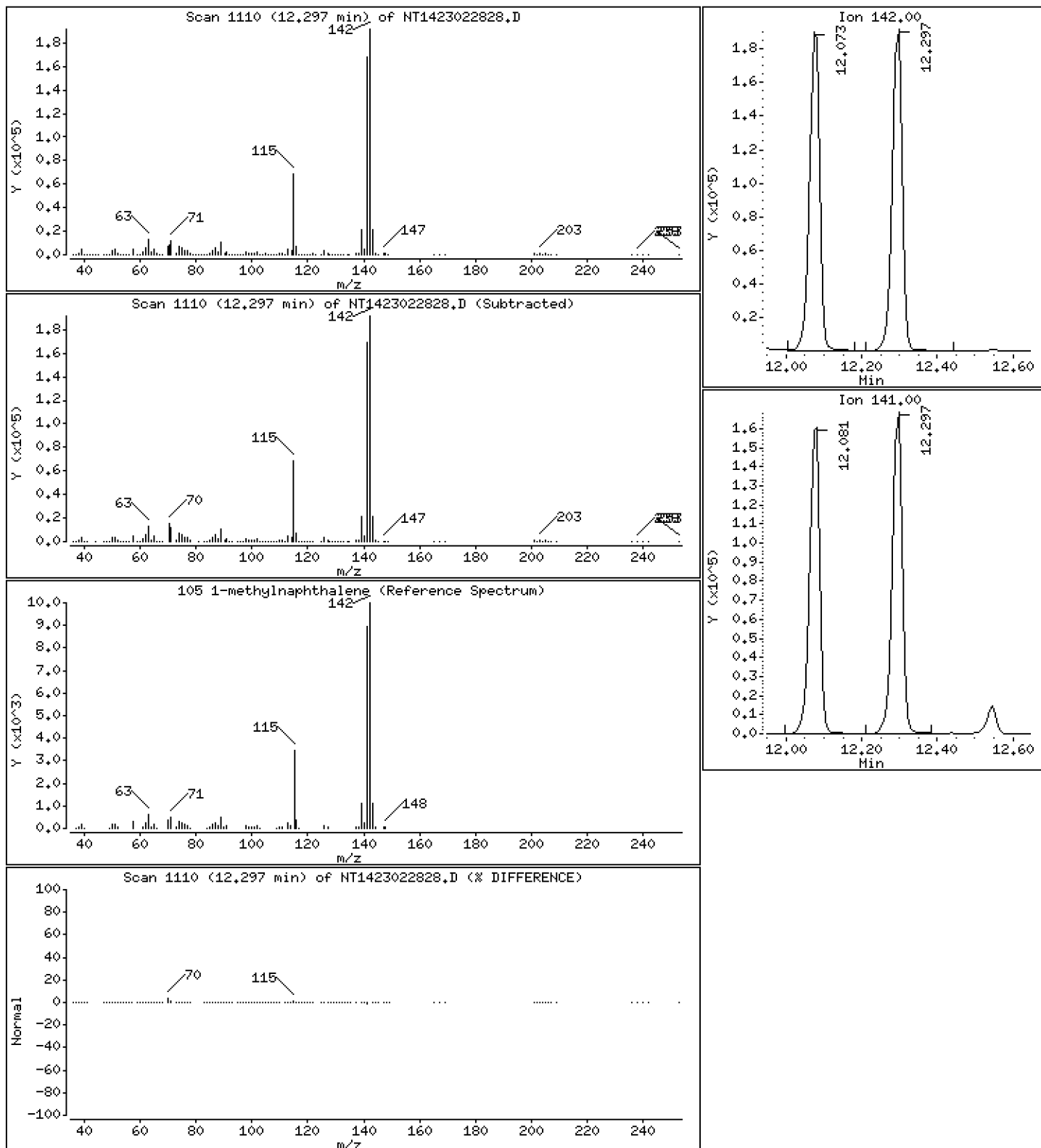
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 4,448 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

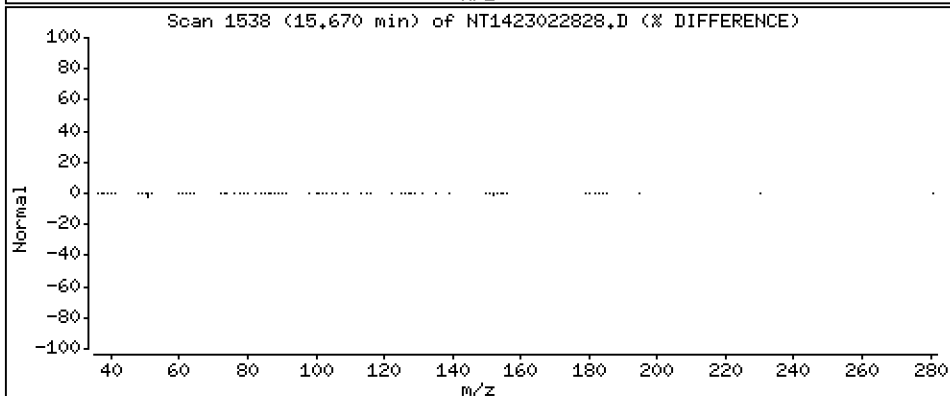
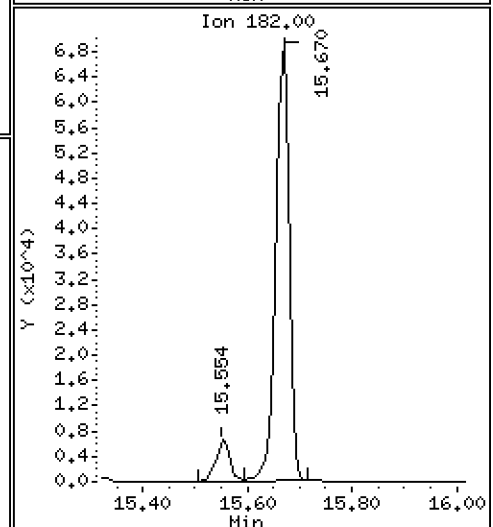
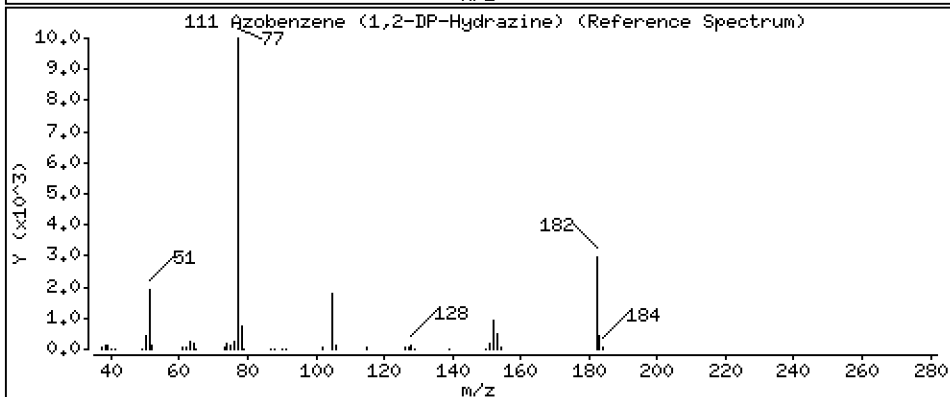
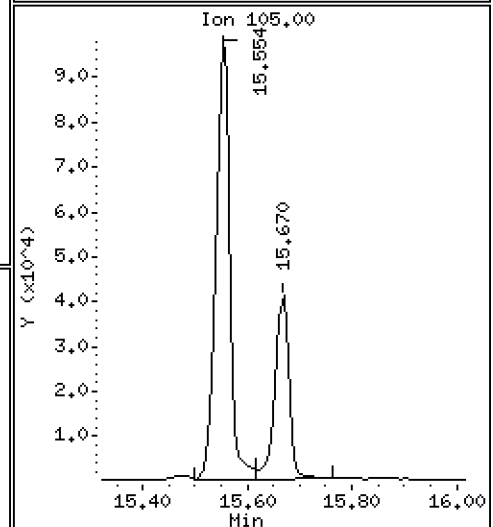
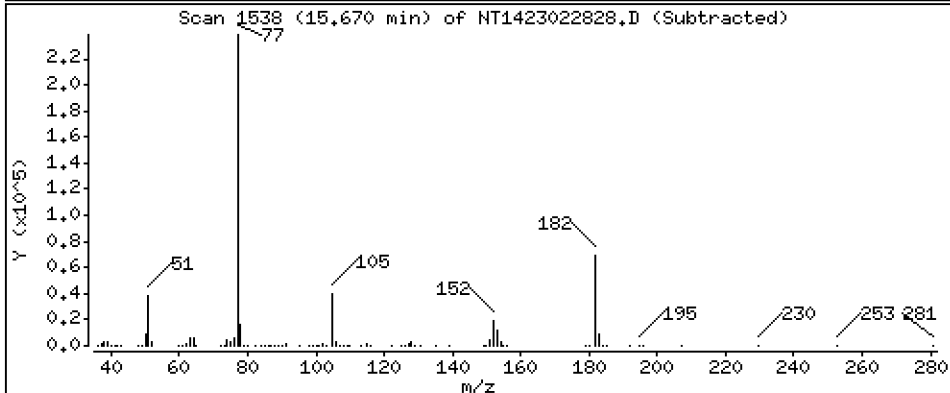
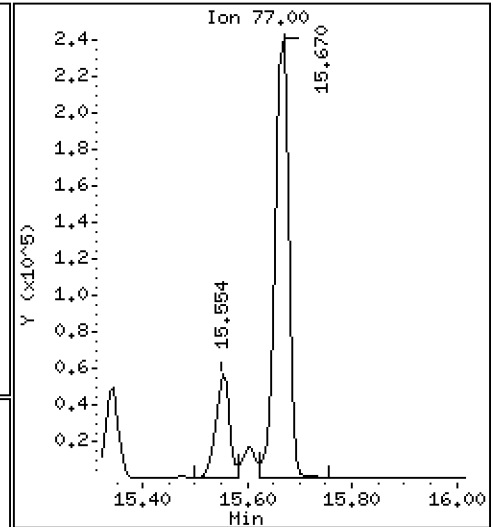
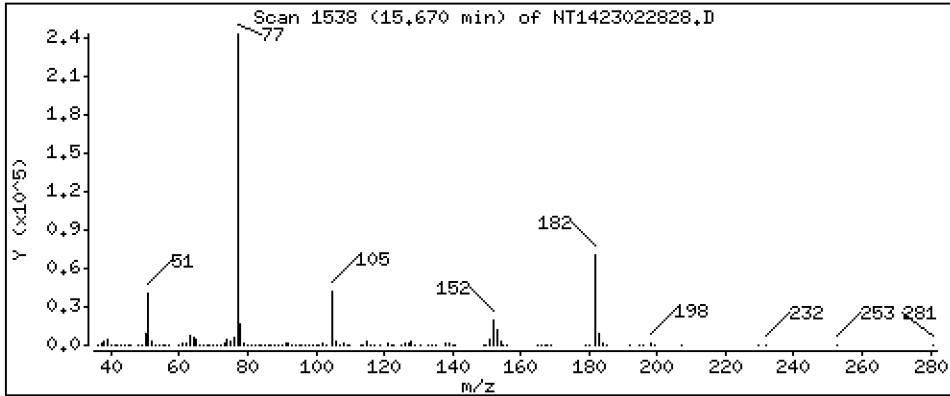
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 5,112 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

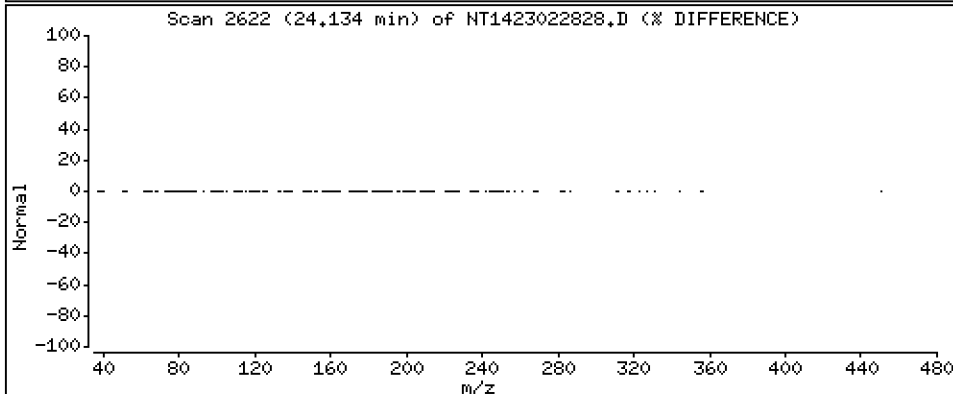
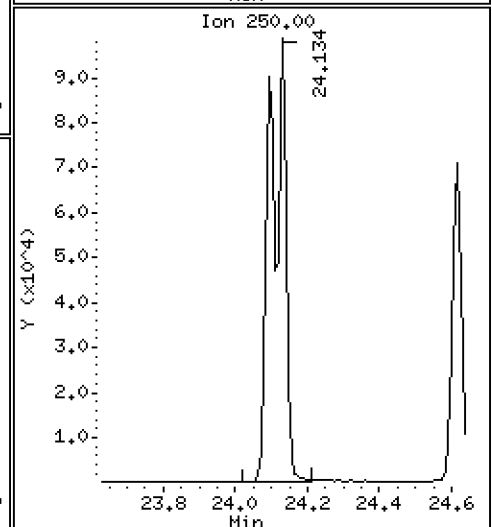
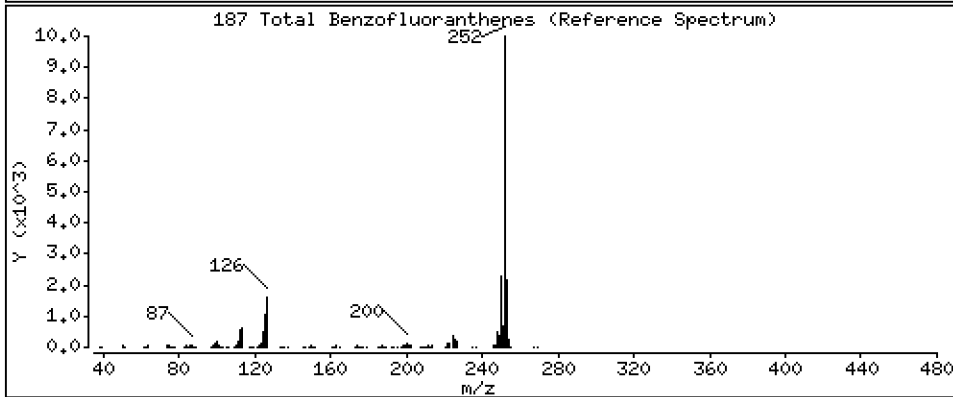
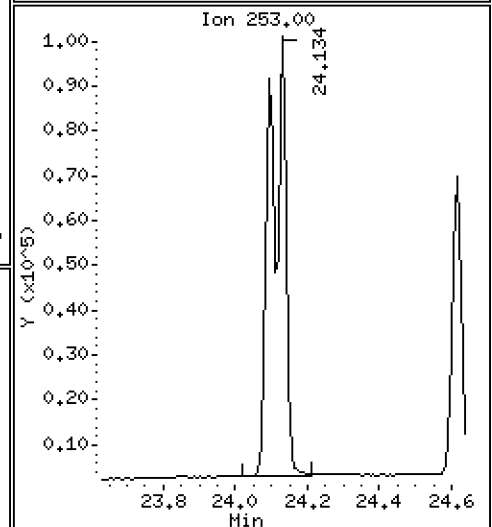
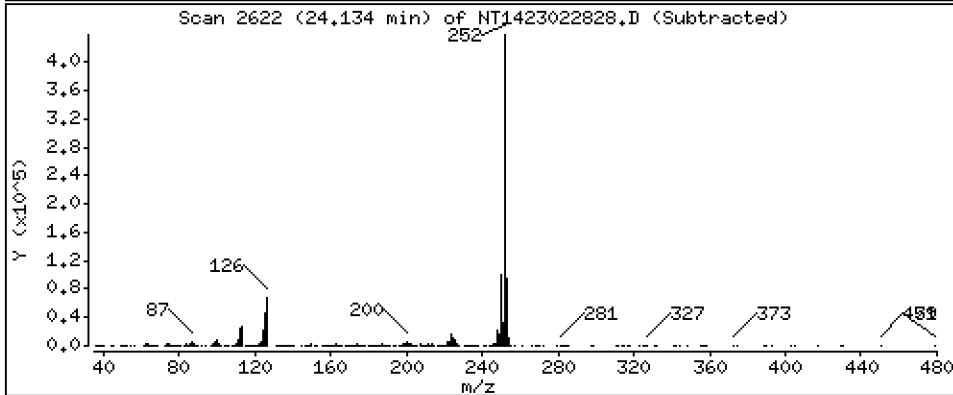
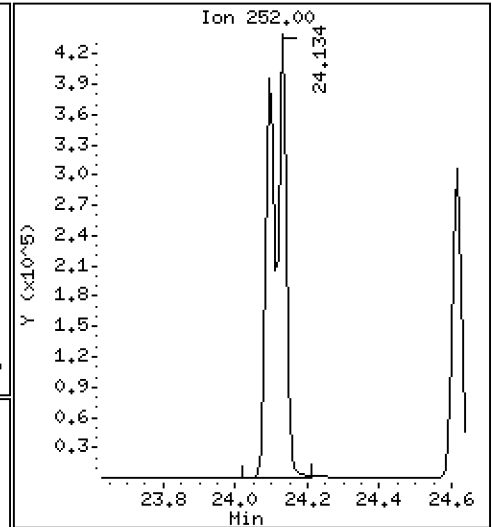
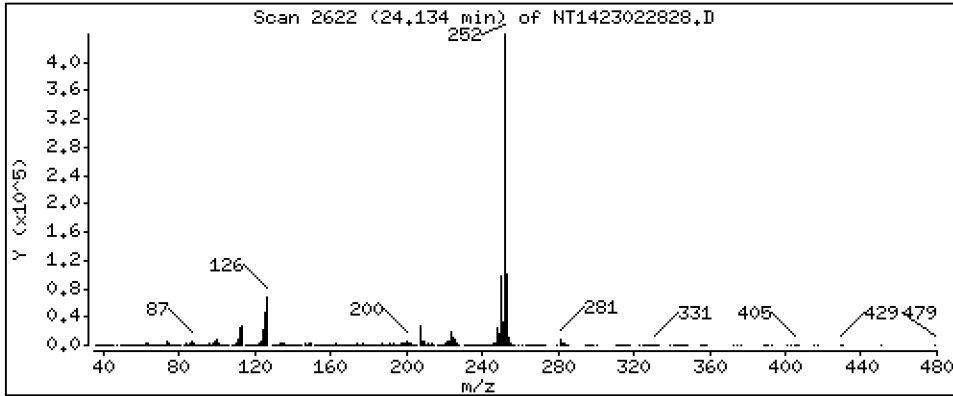
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 10,20 ug/mL



Date : 01-MAR-2023 17:52

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-BSD1

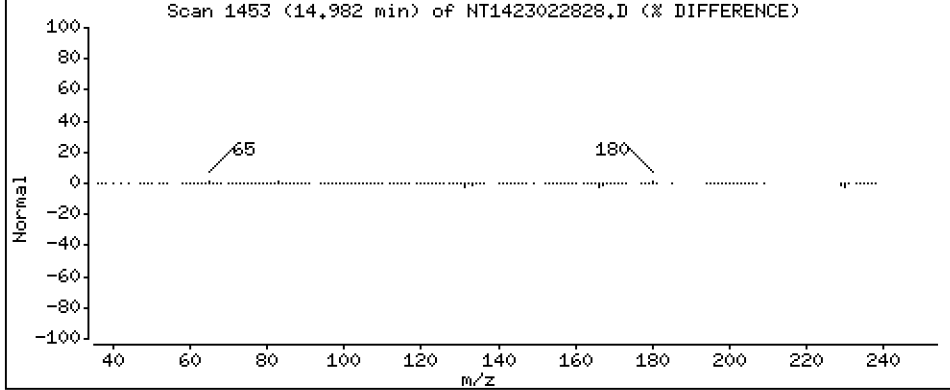
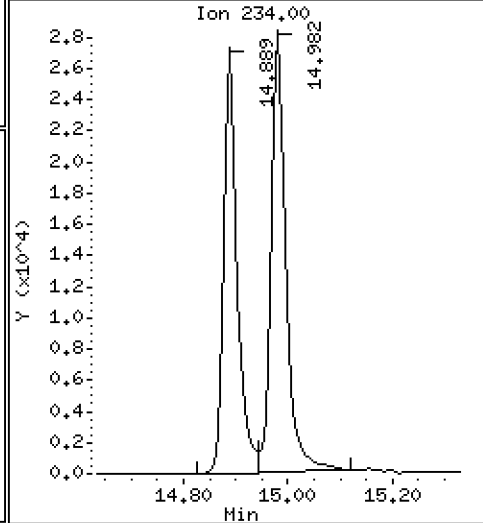
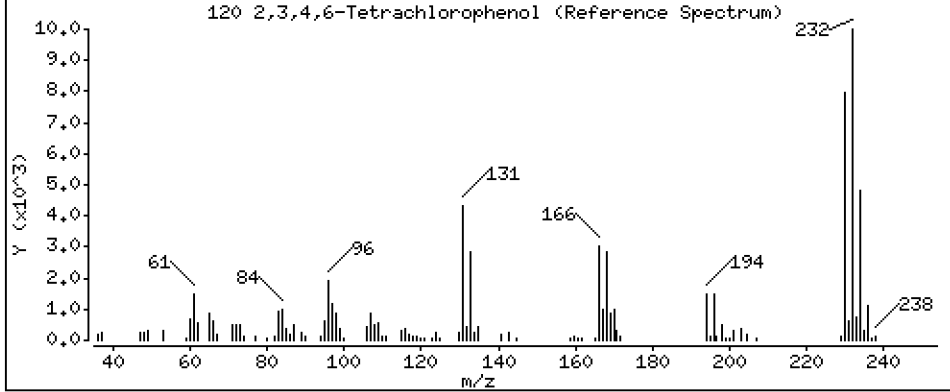
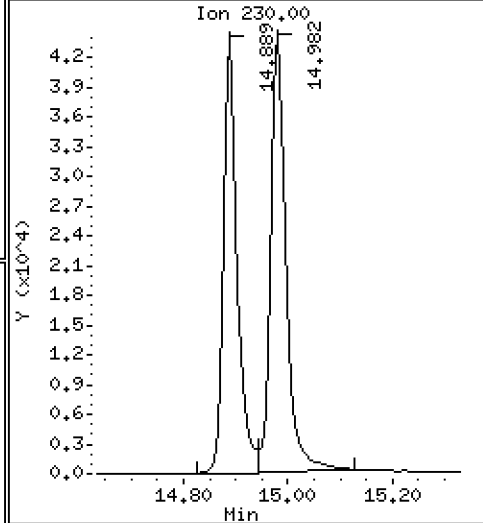
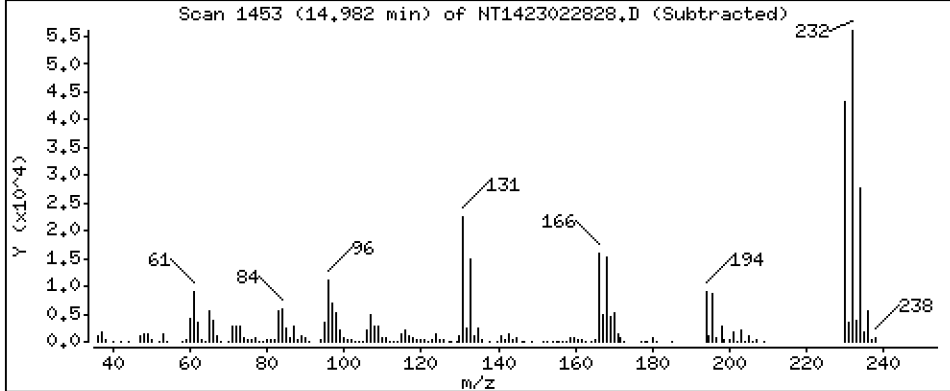
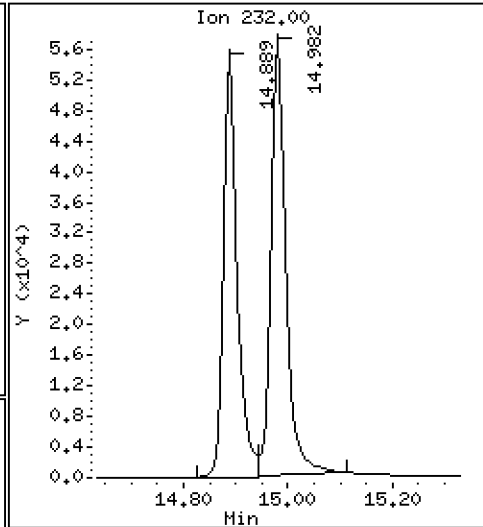
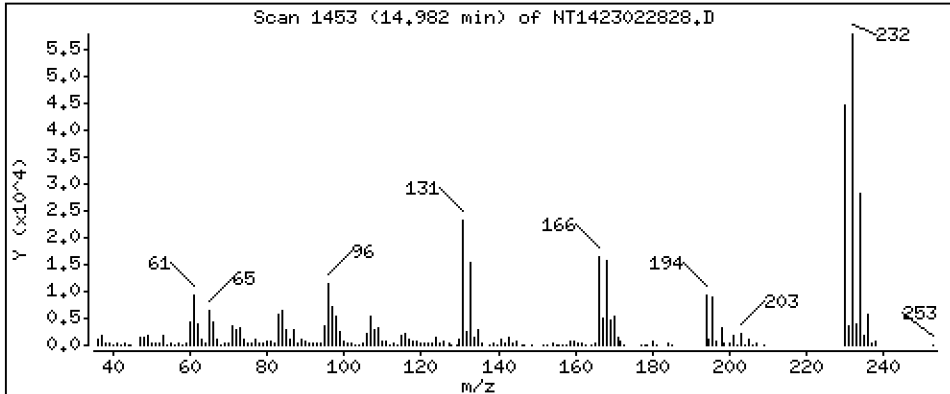
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

120 2,3,4,6-Tetrachlorophenol

Concentration: 4,257 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

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

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

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

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

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

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

Test Mode:
 Use Last Continuing Calibrator.

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

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

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

REVIEW SUMMARY FOR FILE - NT1423022828.D

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

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

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

NONE

RRT check based on Ccal File: NT1423022821.D

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

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



LCS / LCS DUPLICATE RECOVERY
EPA 8270E

Laboratory: Analytical Resources, LLC SDG: 23A0180
 Client: Anchor QEA, LLC Project: AOC5 MR Phase 1
 Matrix: Solid Analyzed: 03/22/23 20:54
 Batch: BLC0442 Laboratory ID: BLC0442-BS1
 Preparation: EPA 3546 (Microwave) Sequence Name: LCS
 Initial/Final: 10 g / 1 mL

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

* Indicates values outside of QC limits

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

* Indicates values outside of QC limits



LCS / LCS DUPLICATE RECOVERY
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Matrix: Solid

Analyzed: 03/22/23 21:32

Batch: BLC0442

Laboratory ID: BLC0442-BSD1

Preparation: EPA 3546 (Microwave)

Sequence Name: LCS Dup

Initial/Final: 10 g / 1 mL

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

* Indicates values outside of QC limits

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

Date: 22-MAR-2023 20:54

Client ID:

Sample Info: BLC0442-BS1

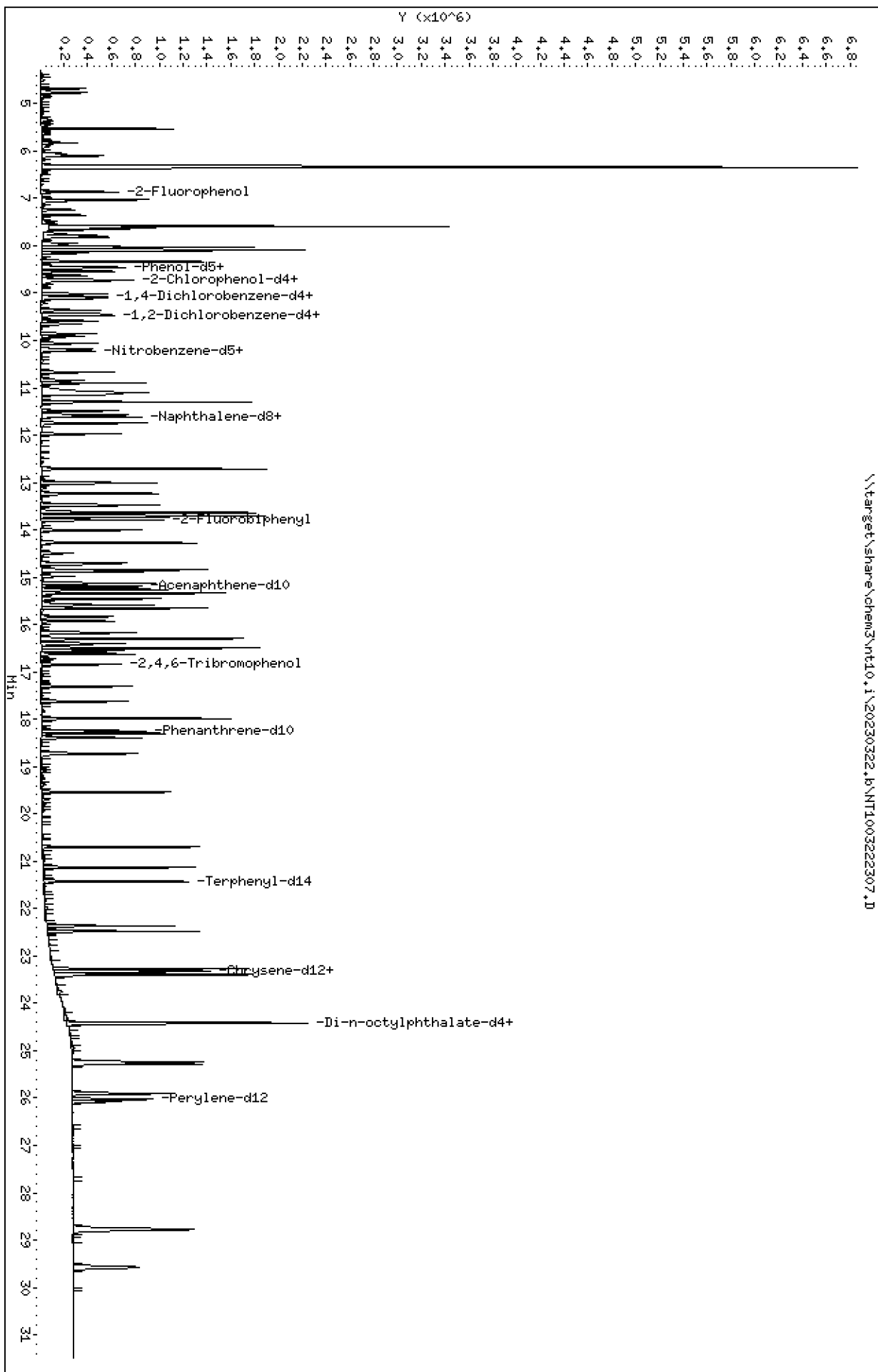
Page 1

Column phase: ZB-5msi

Instrument: nt10.1

Operator: VTS

Column diameter: 0.25



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

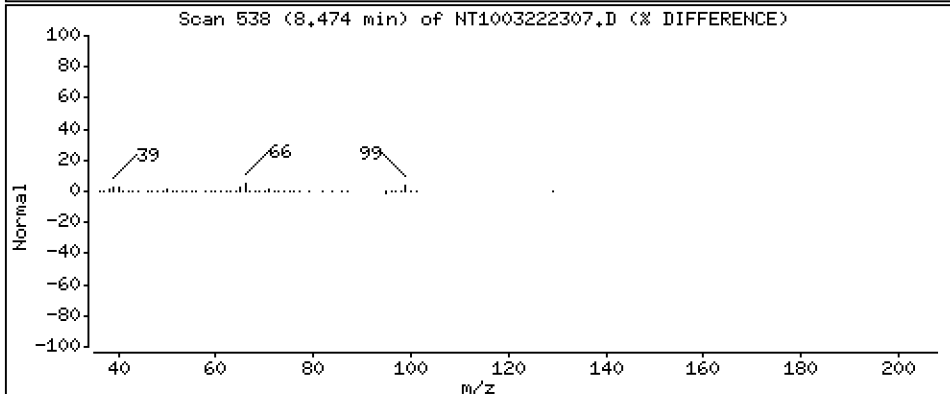
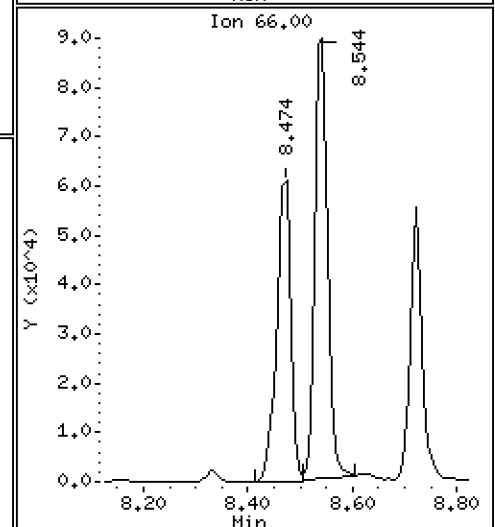
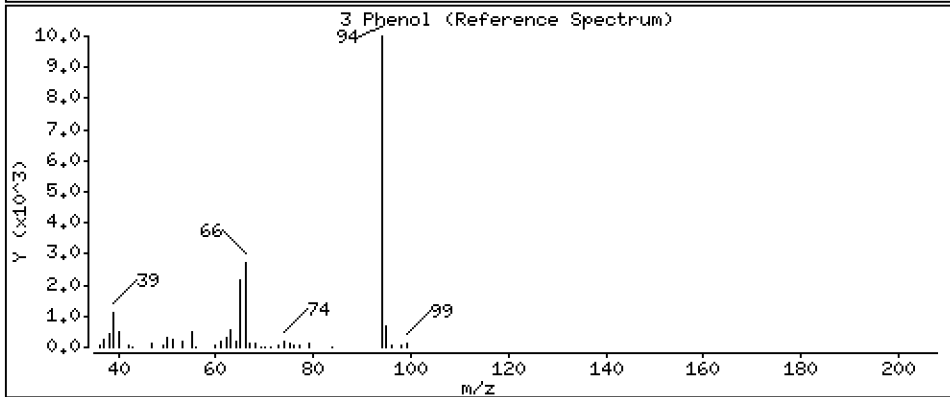
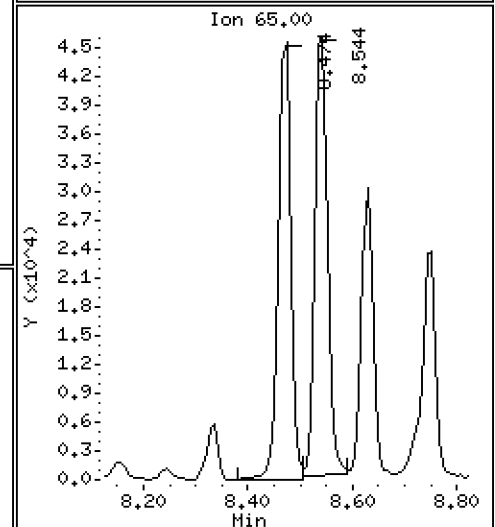
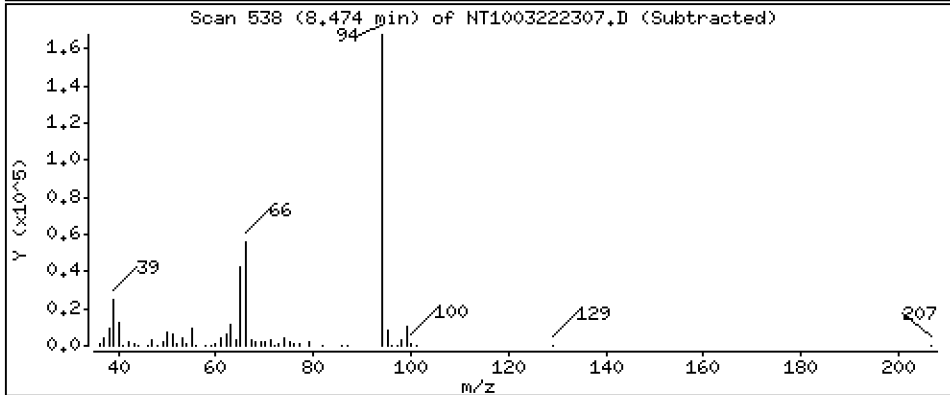
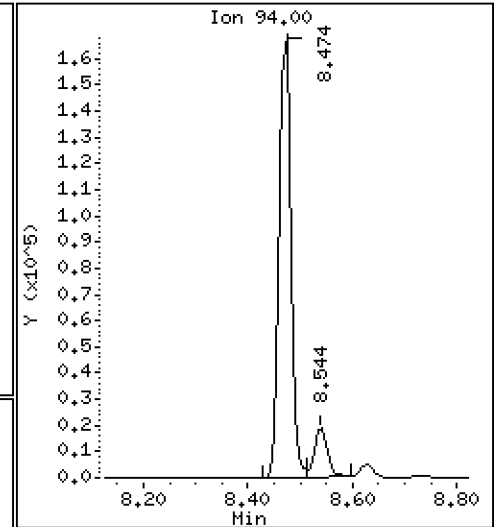
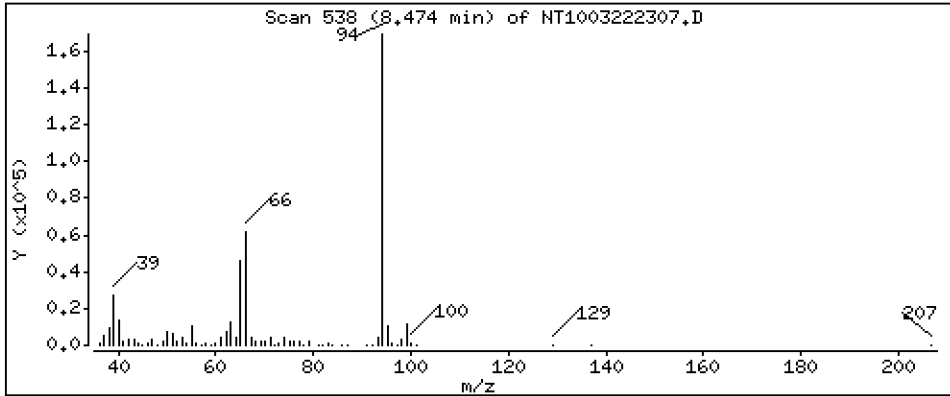
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 3,873 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

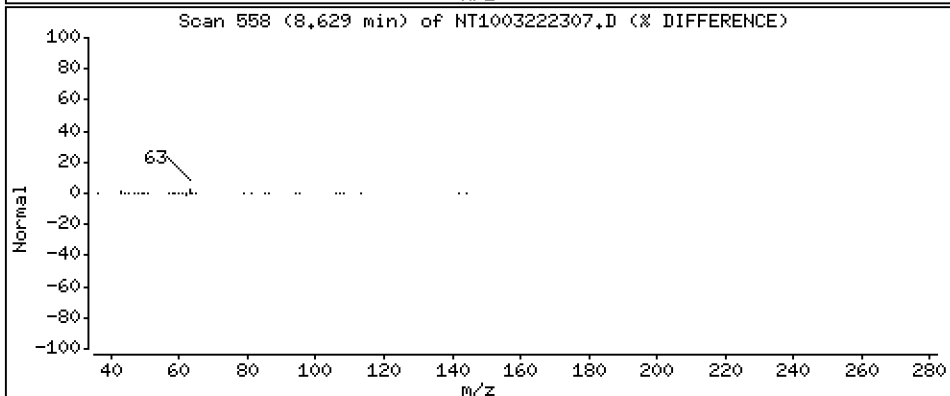
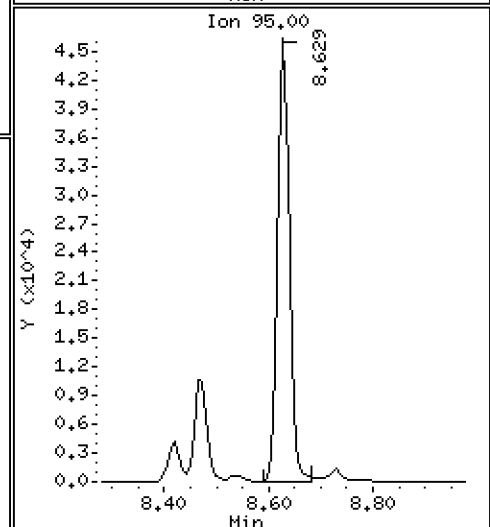
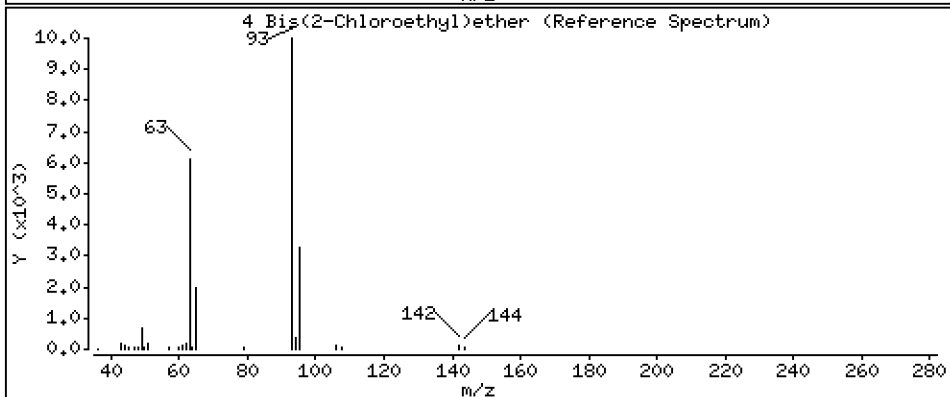
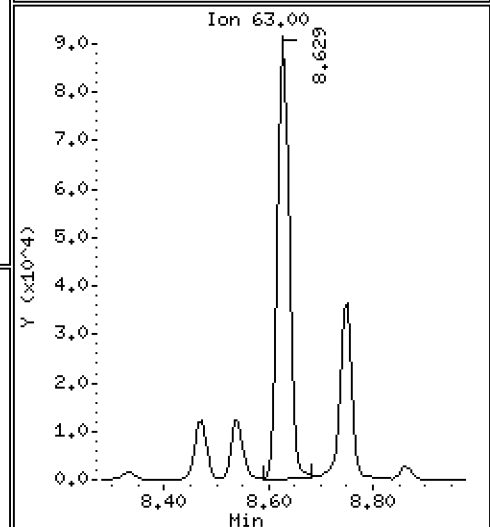
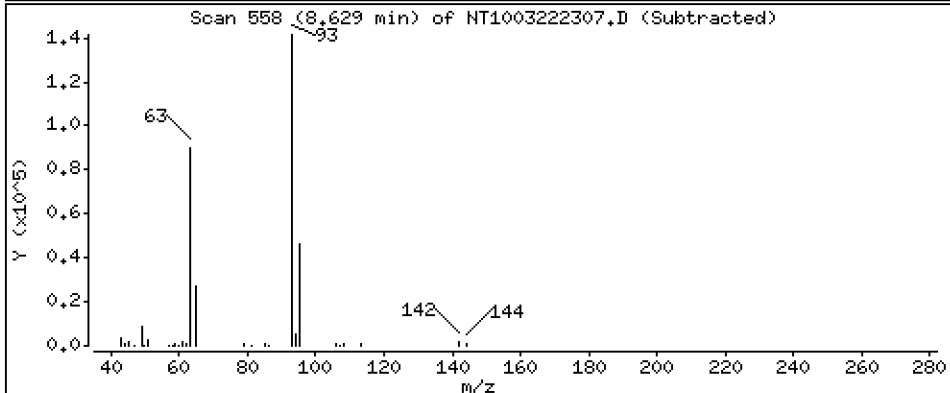
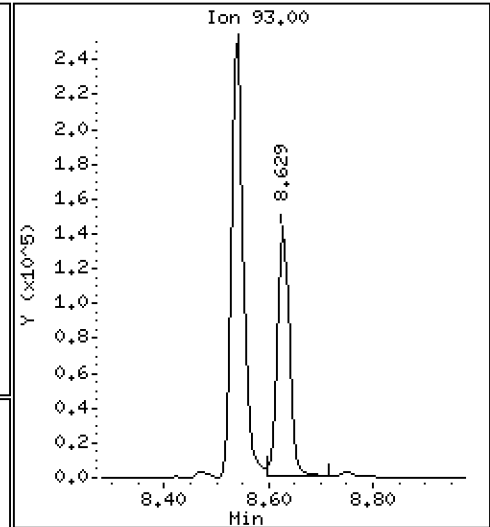
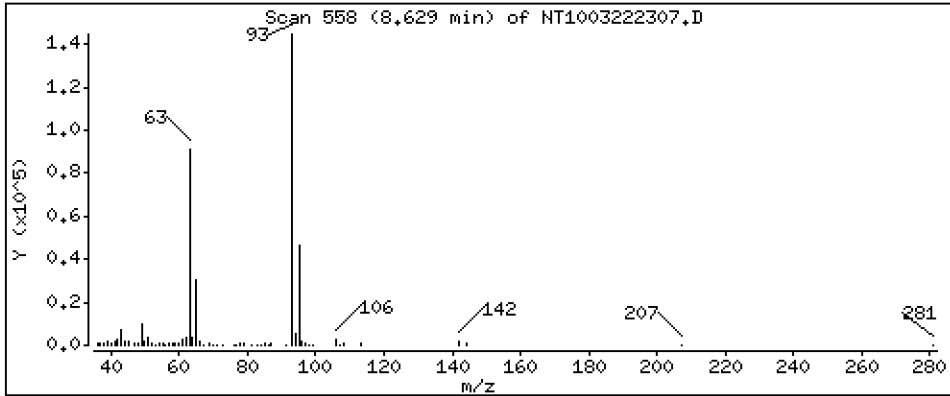
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

4 Bis(2-Chloroethyl)ether

Concentration: 4,548 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

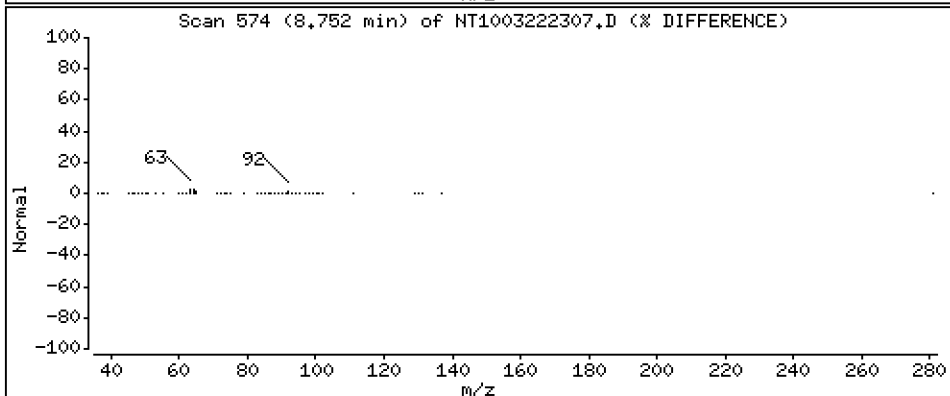
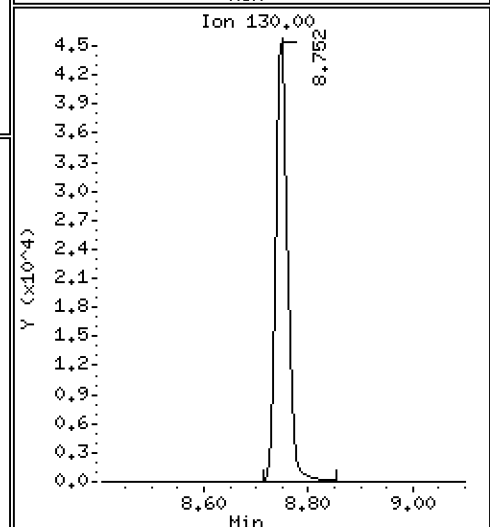
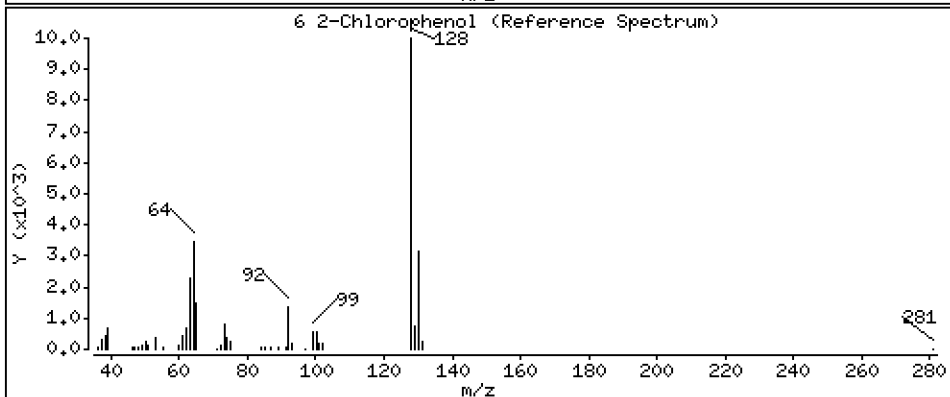
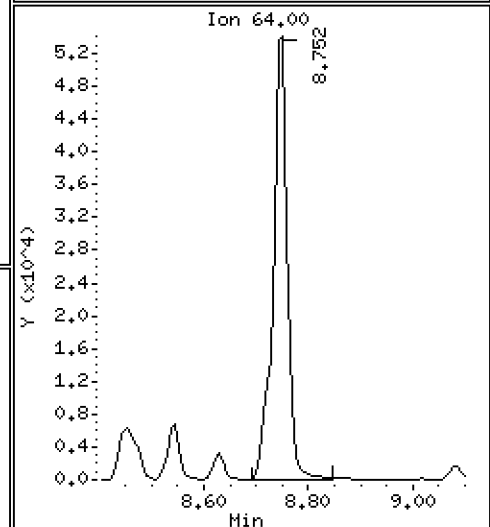
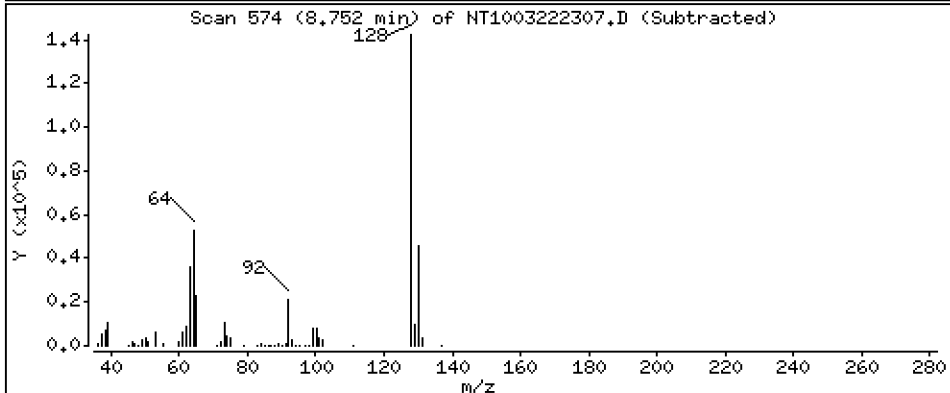
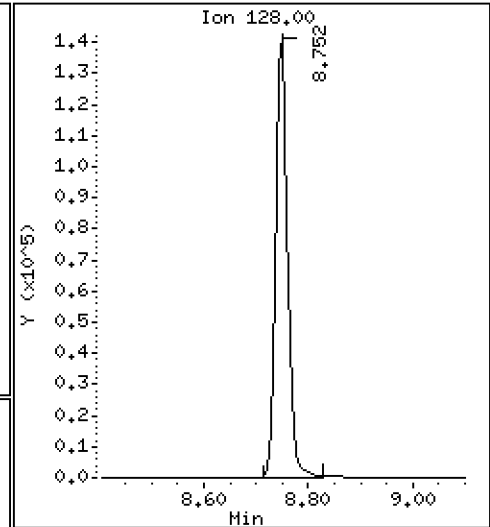
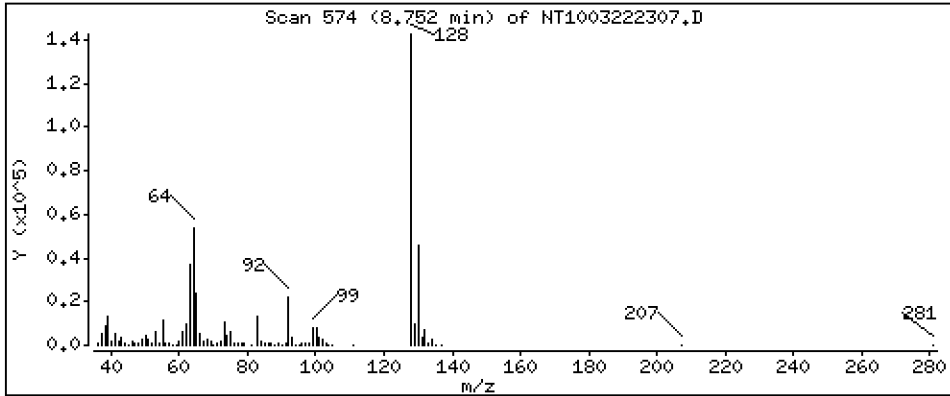
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 4,072 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

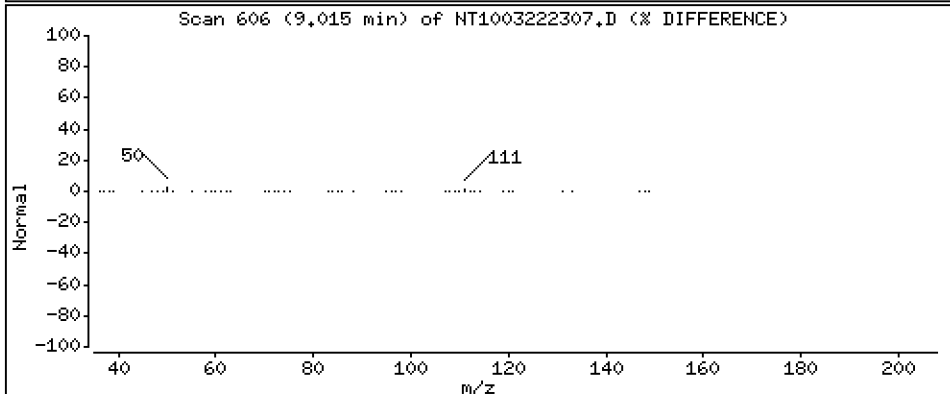
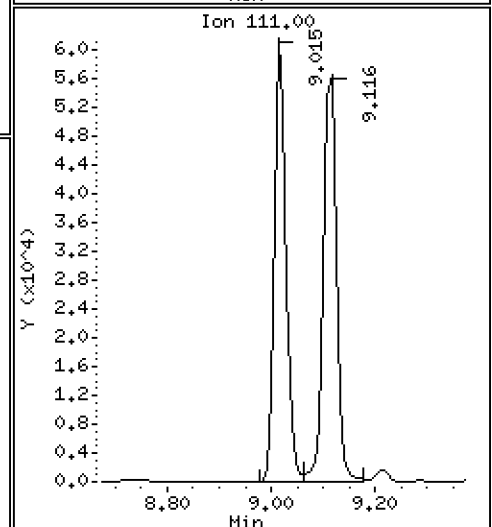
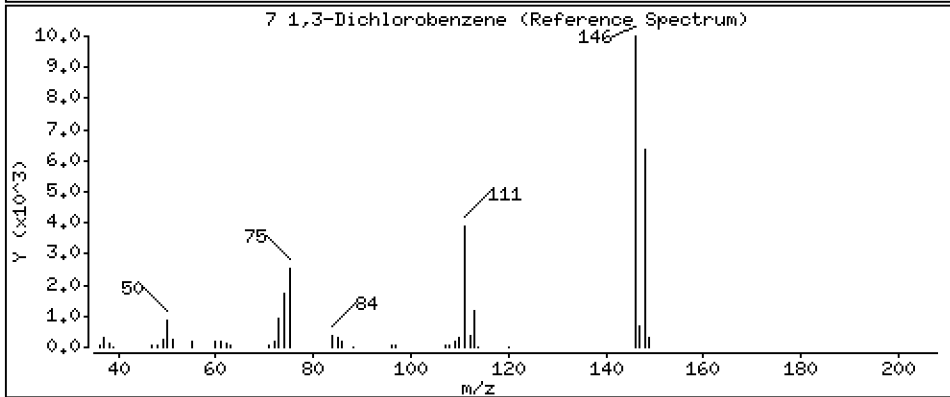
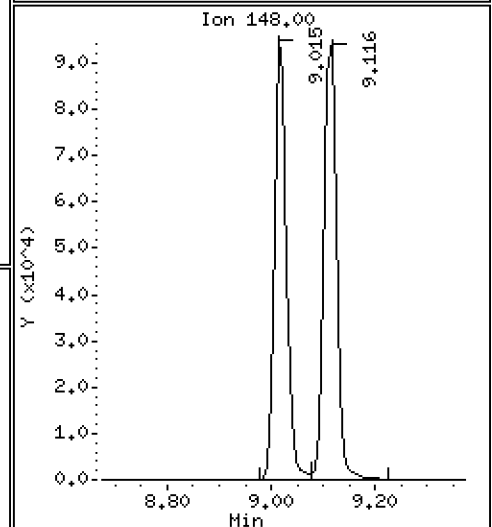
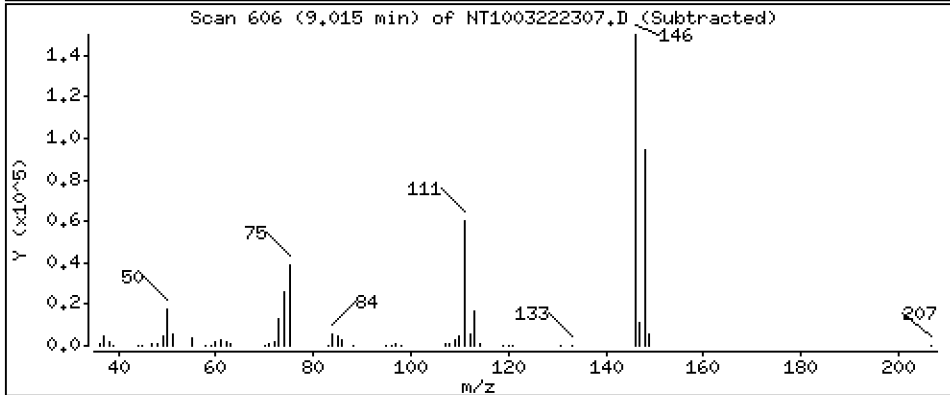
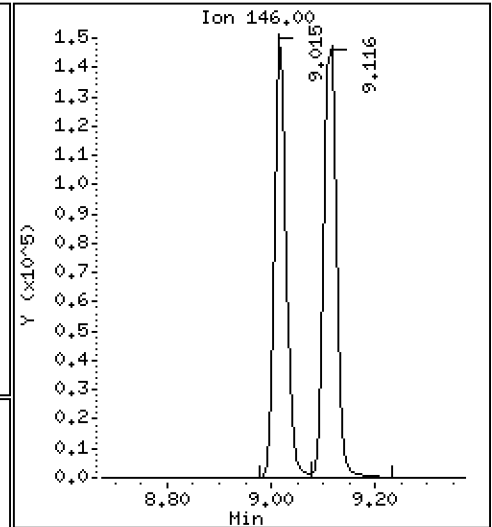
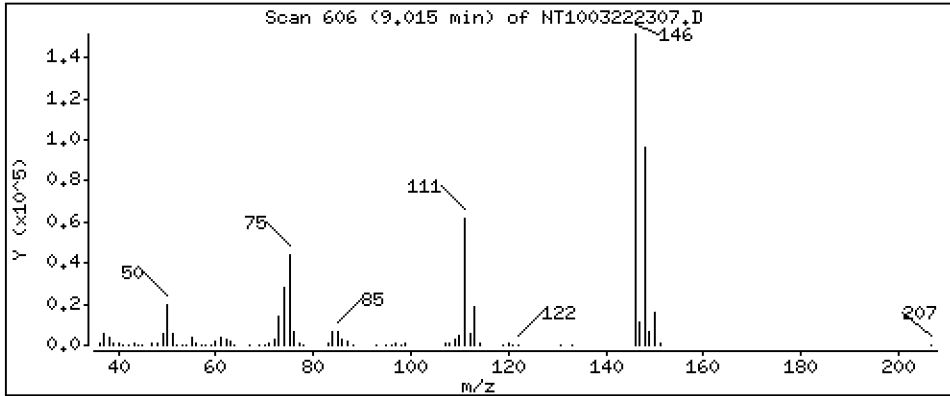
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

7 1,3-Dichlorobenzene

Concentration: 4,127 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

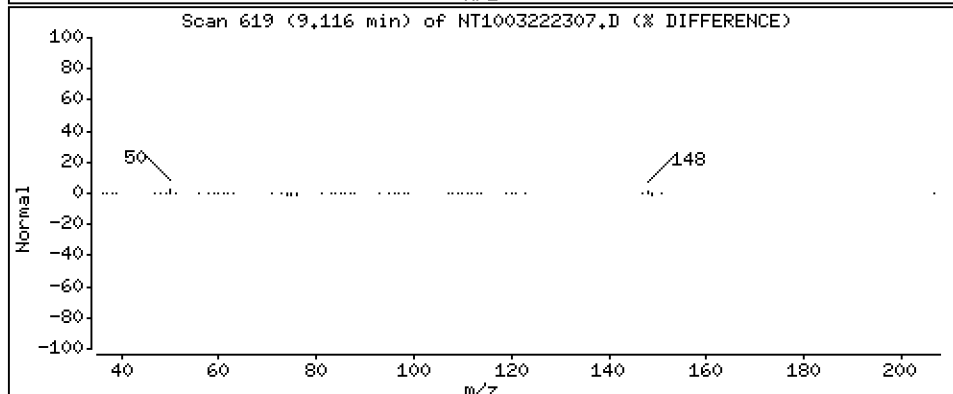
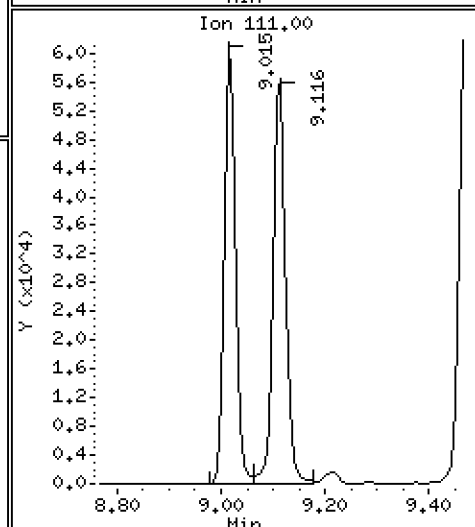
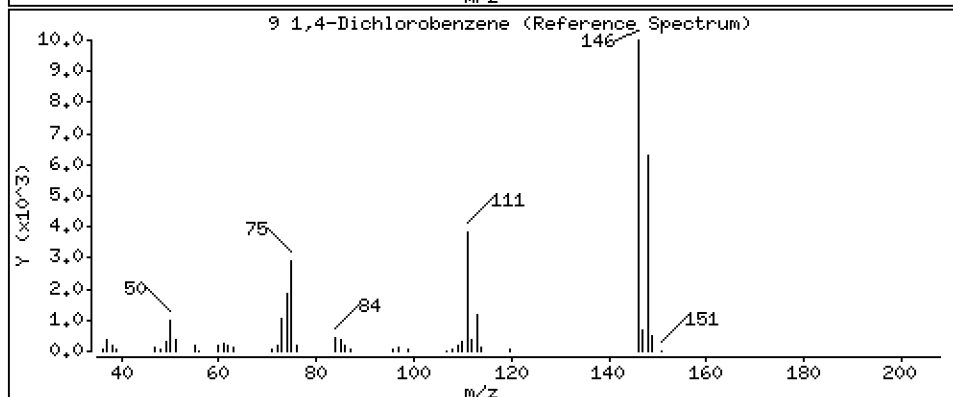
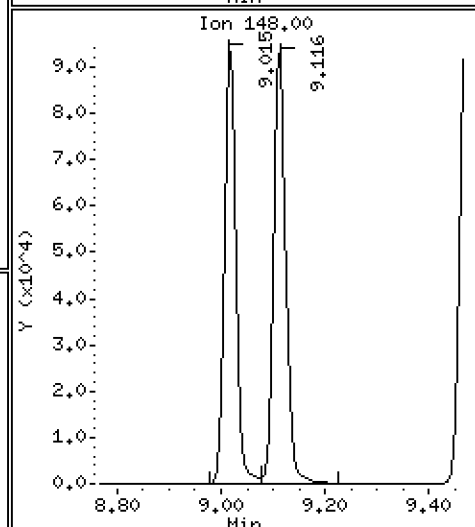
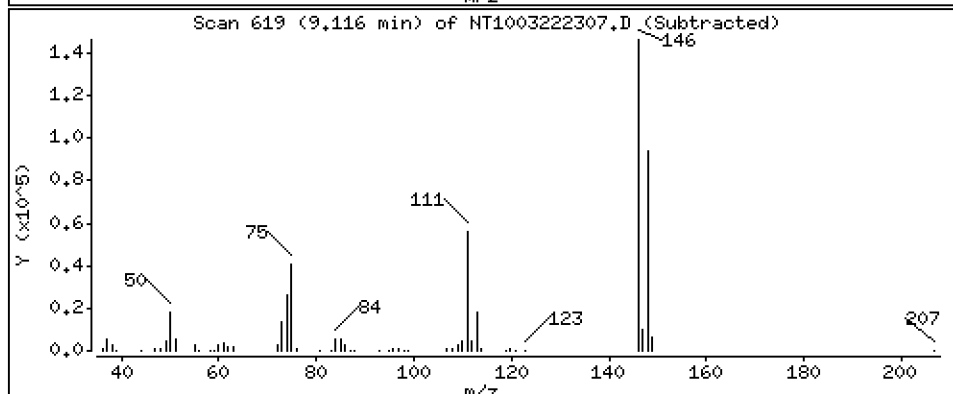
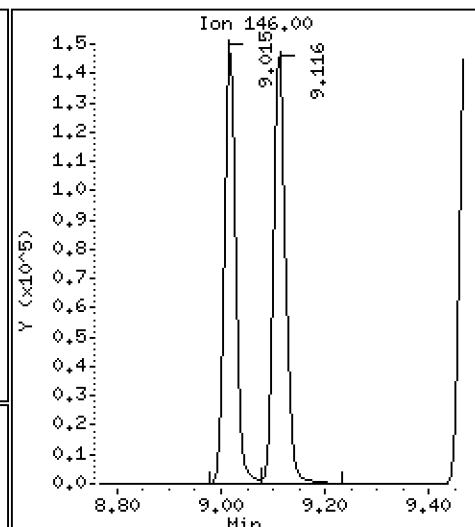
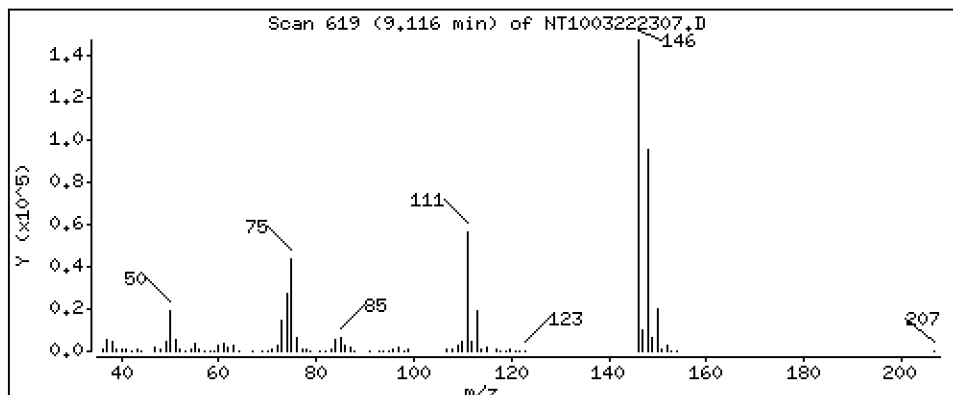
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 4,280 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

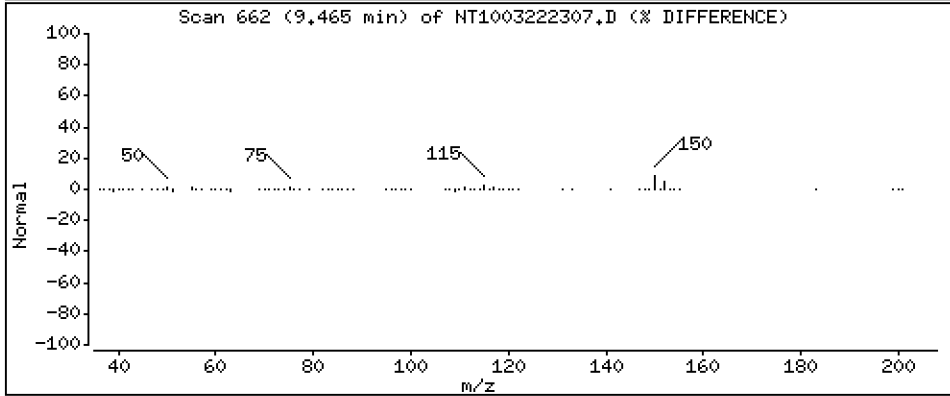
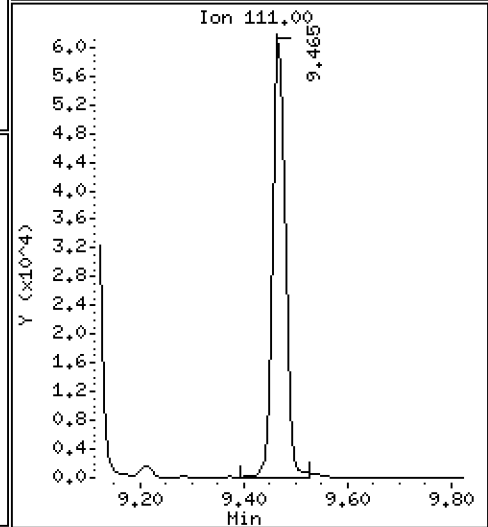
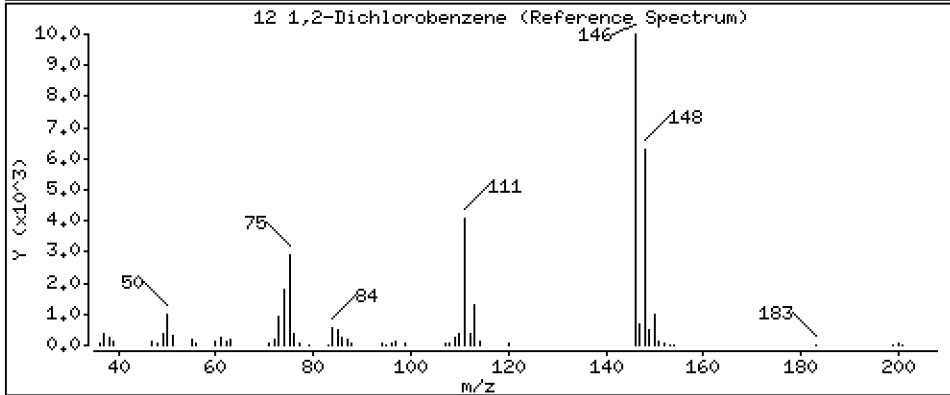
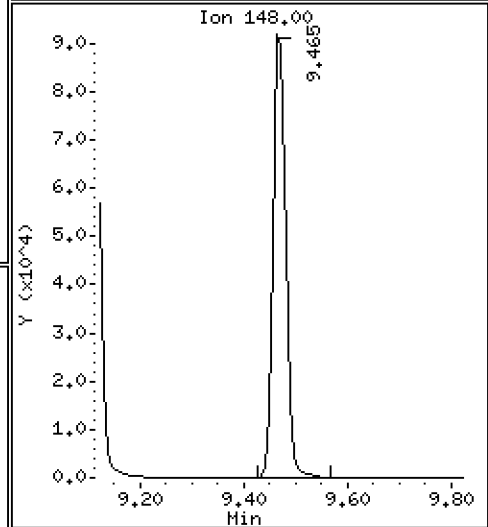
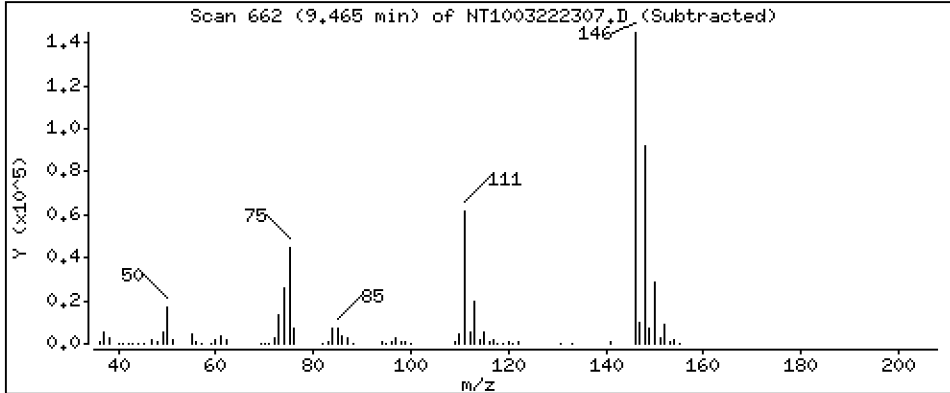
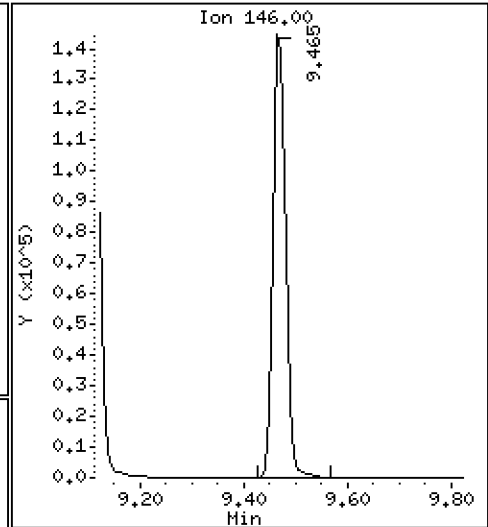
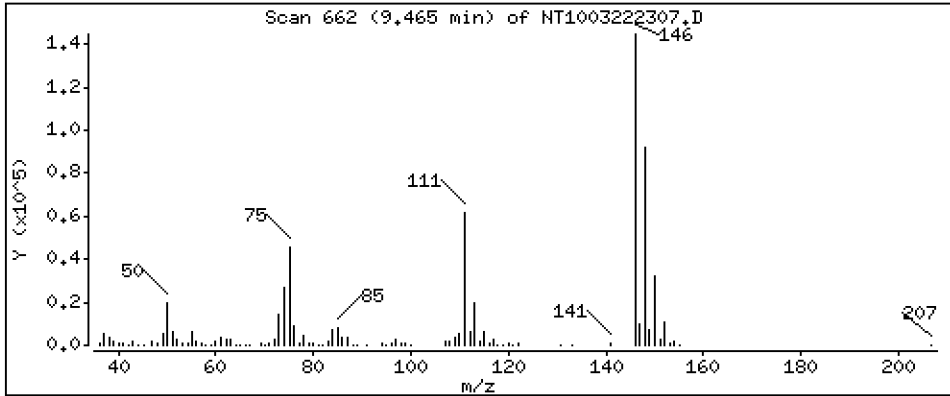
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

12 1,2-Dichlorobenzene

Concentration: 4,249 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

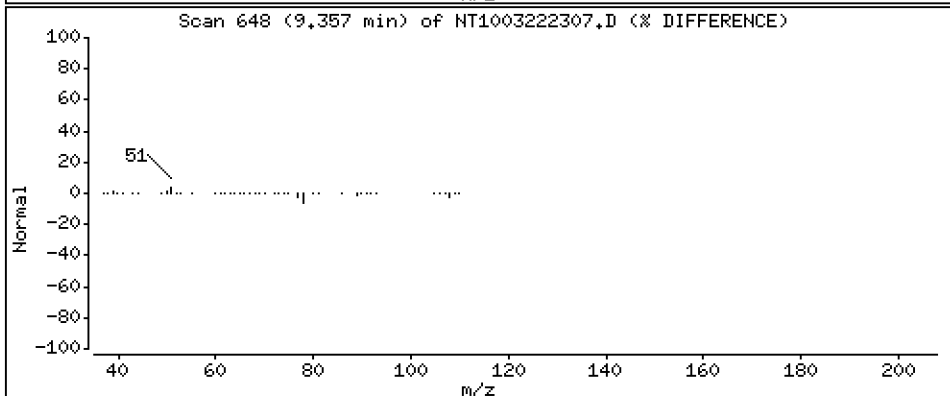
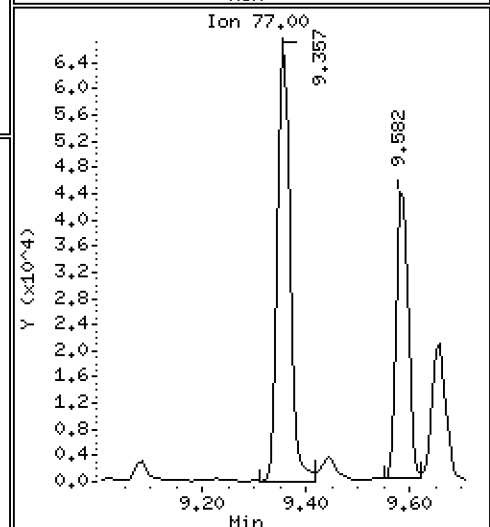
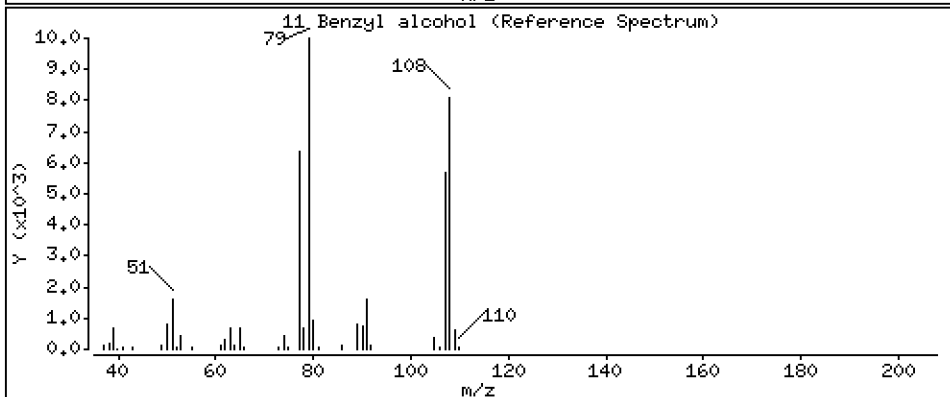
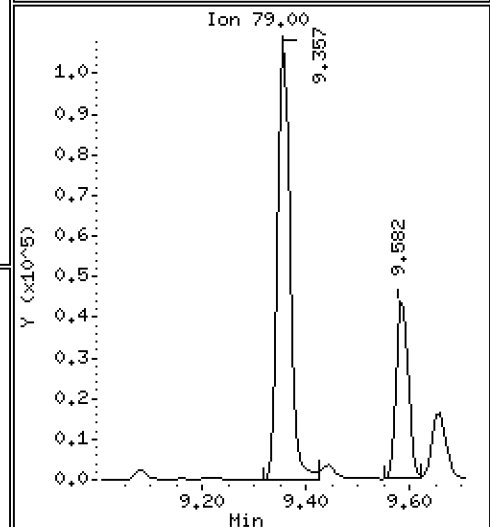
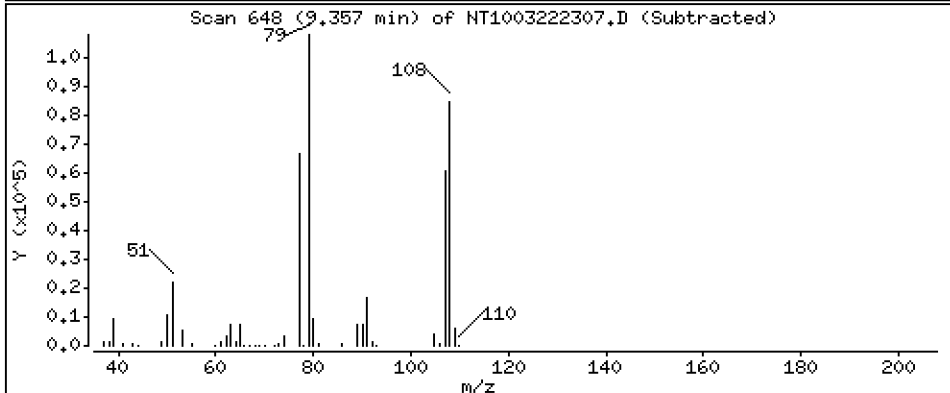
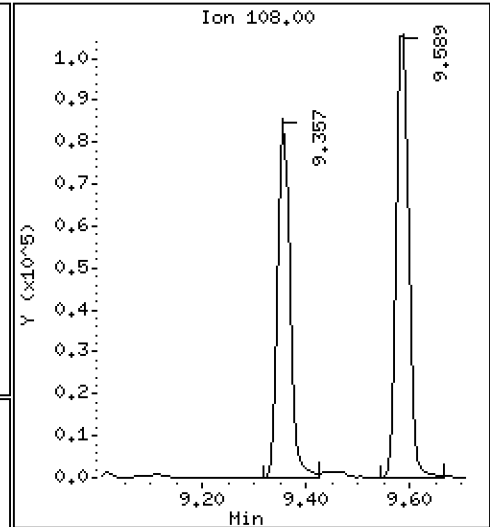
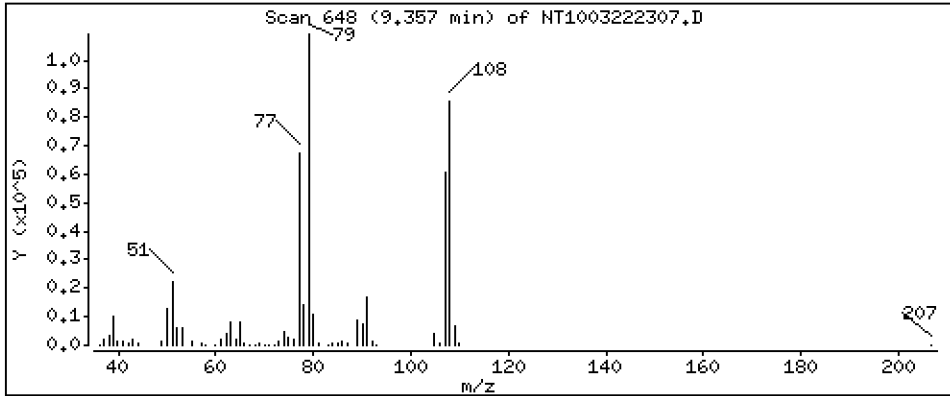
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

11 Benzyl alcohol

Concentration: 4,429 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

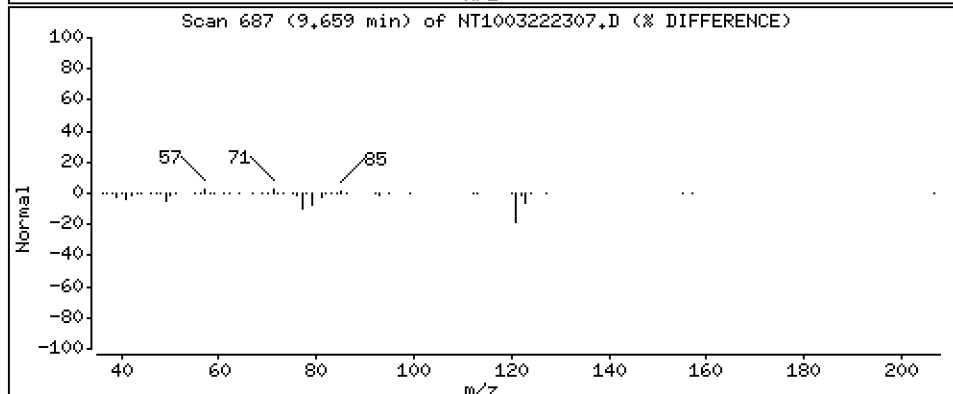
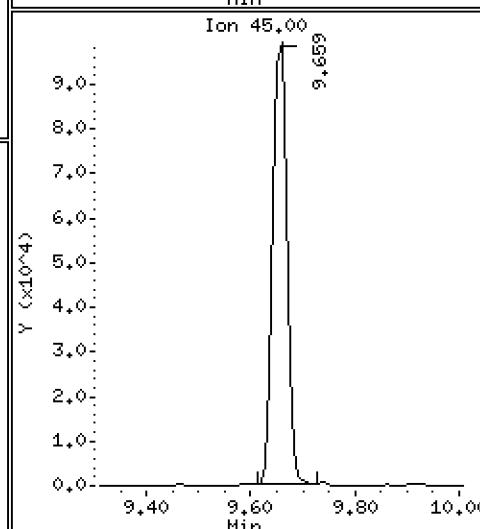
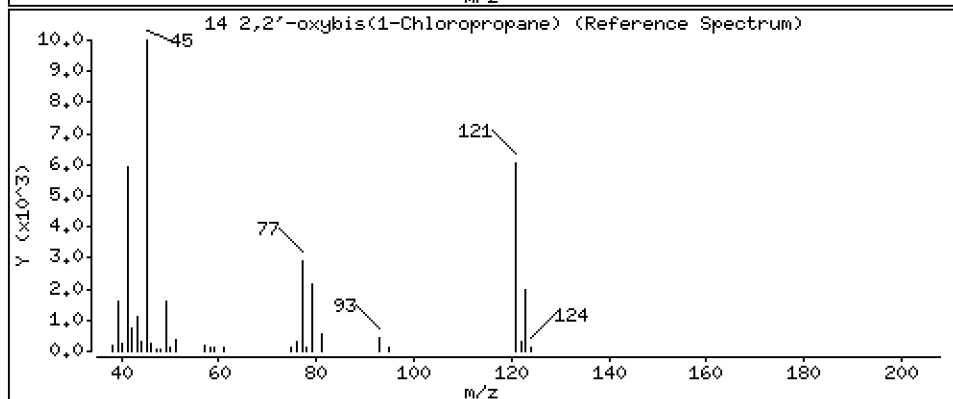
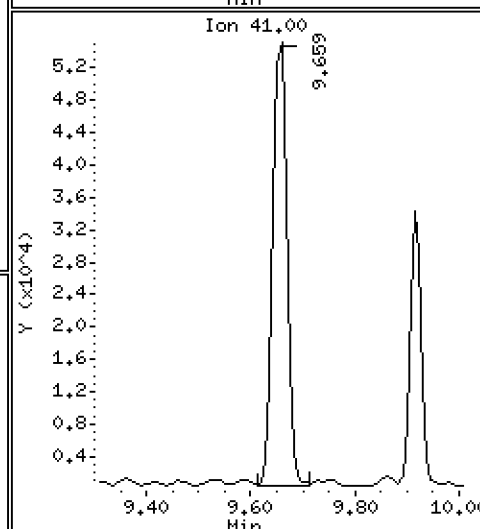
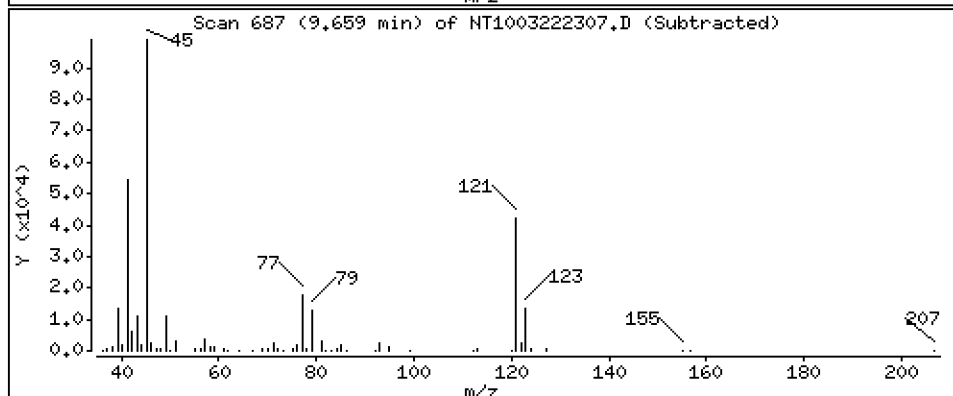
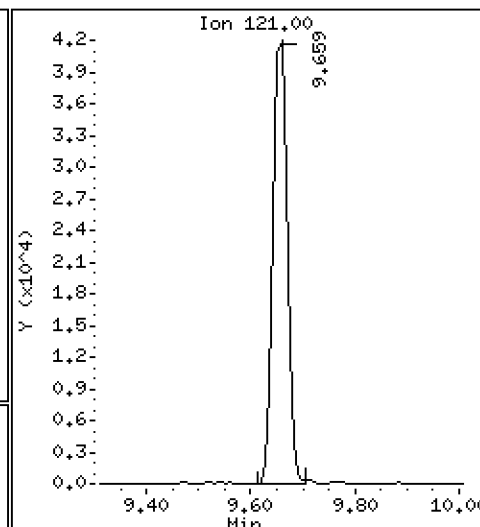
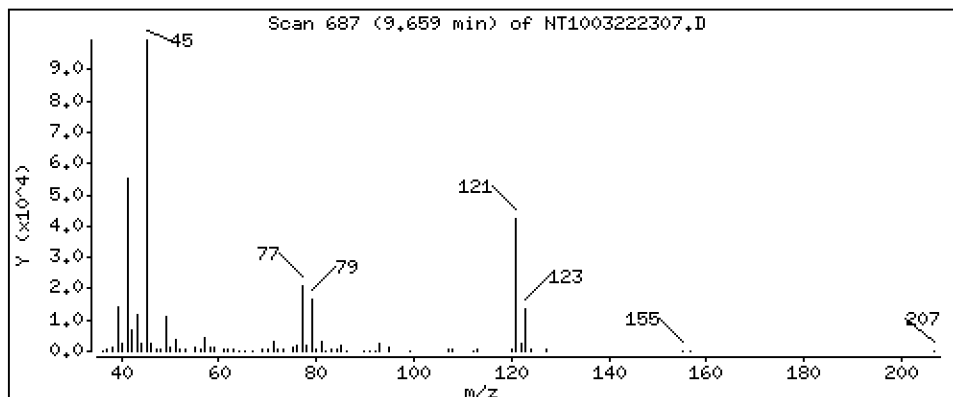
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 4,805 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

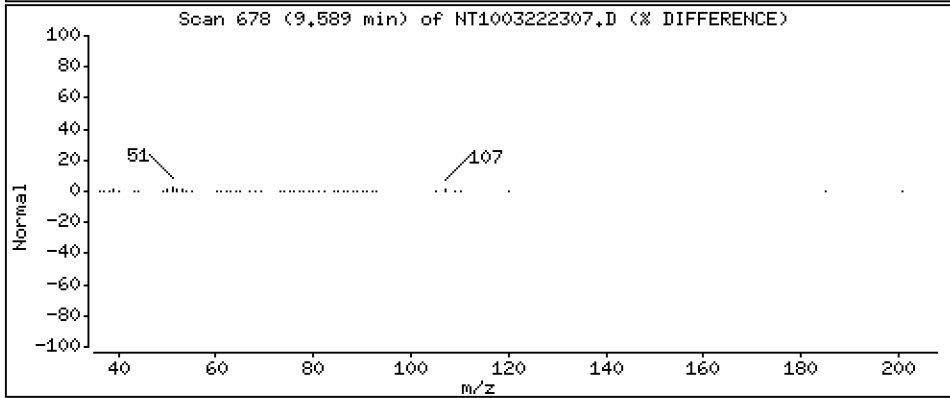
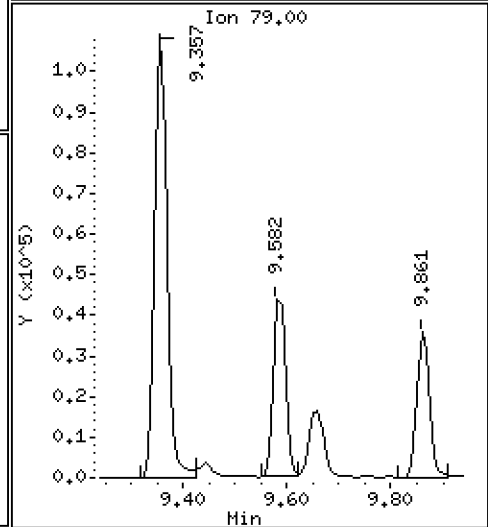
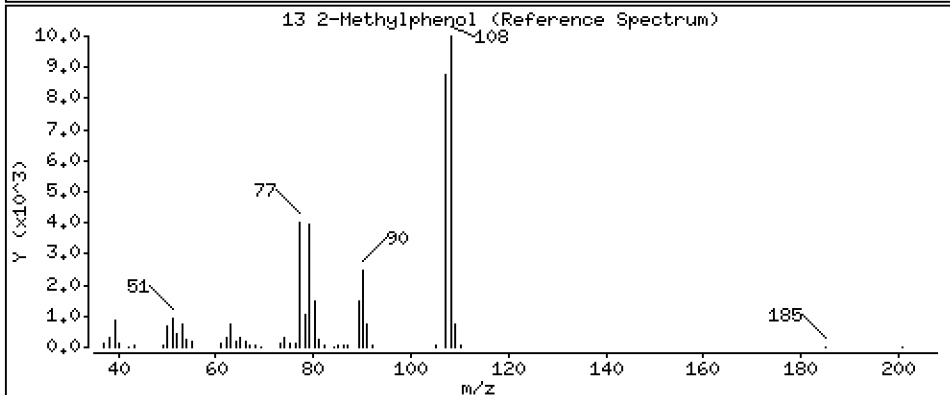
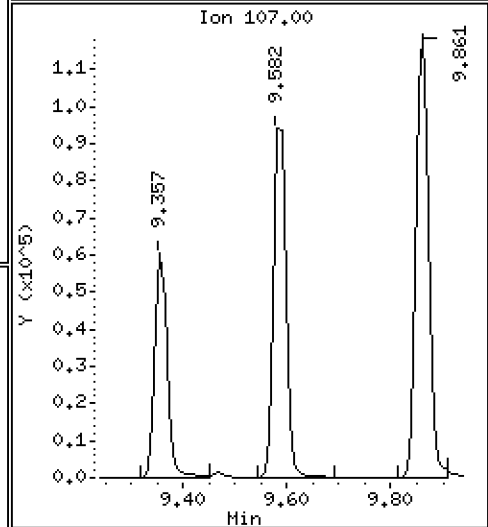
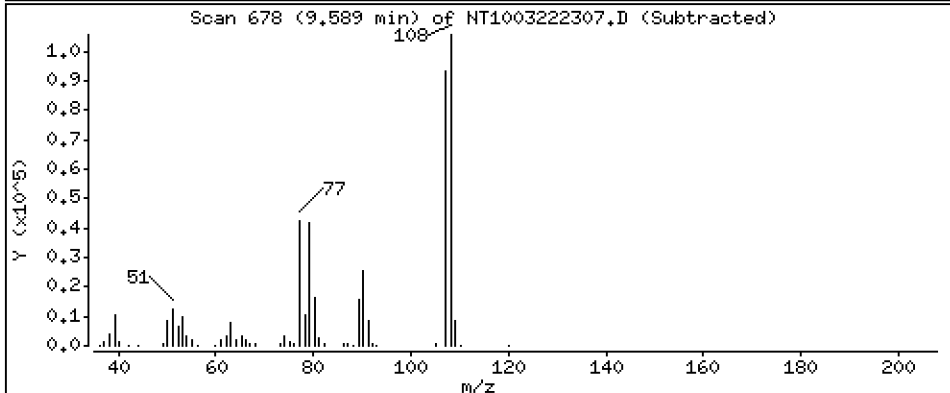
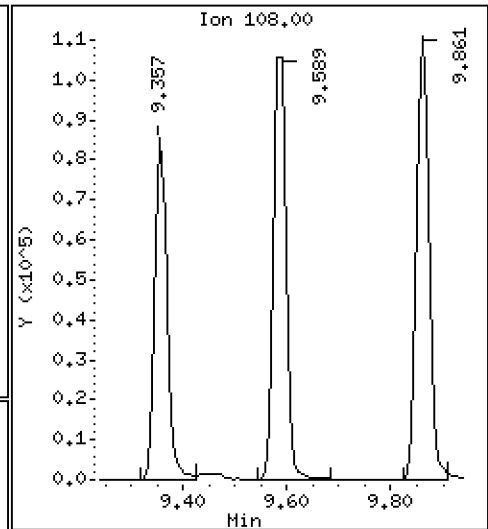
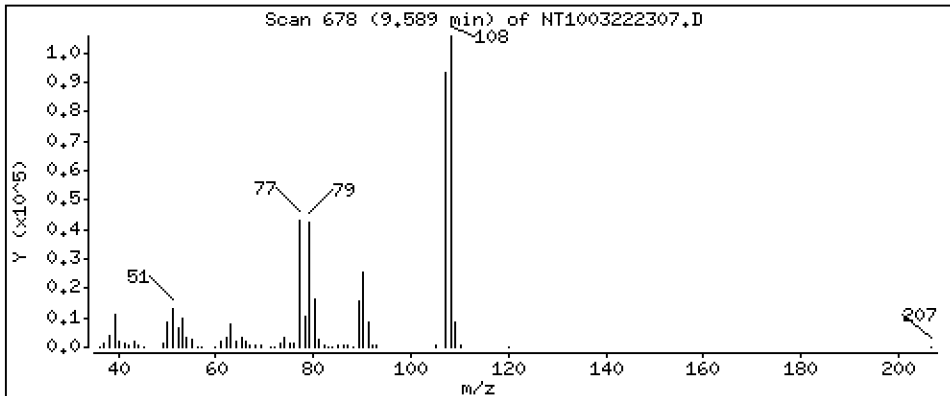
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

13 2-Methylphenol

Concentration: 3.635 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

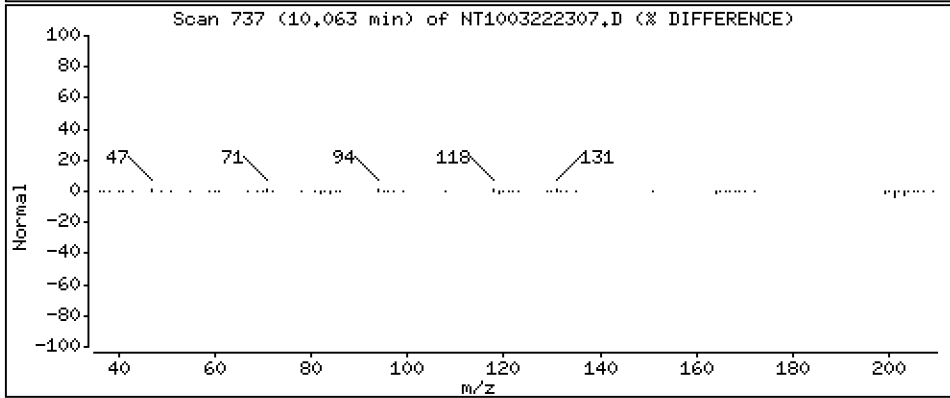
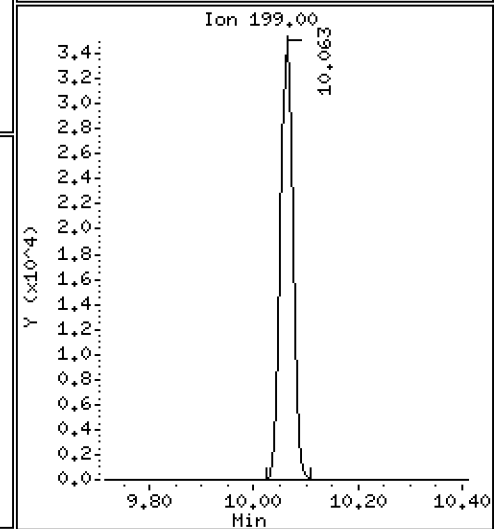
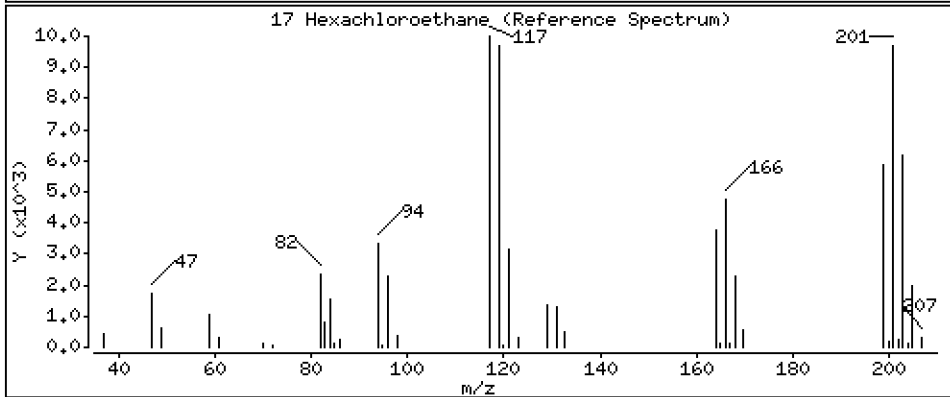
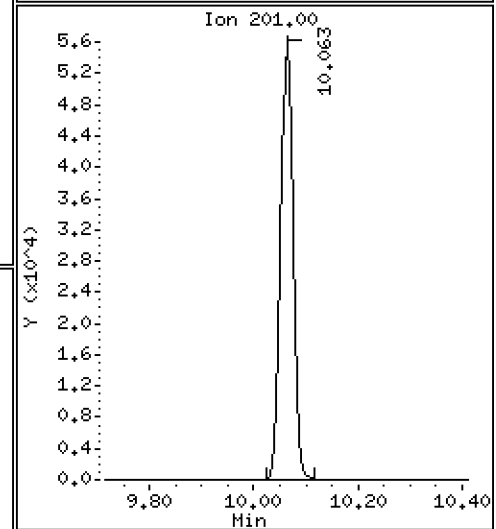
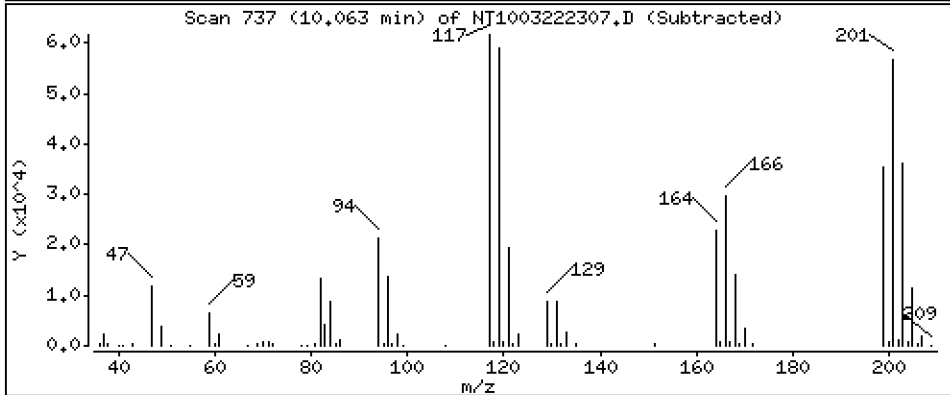
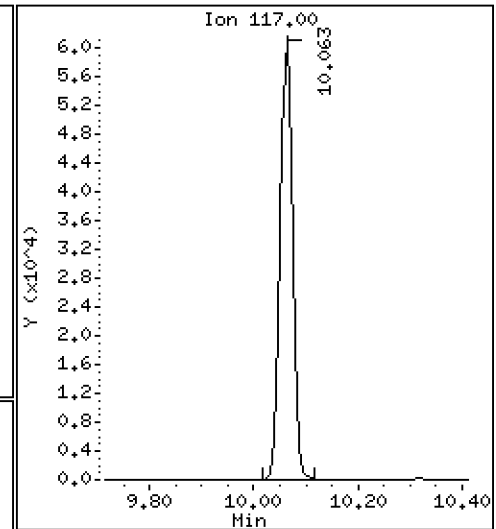
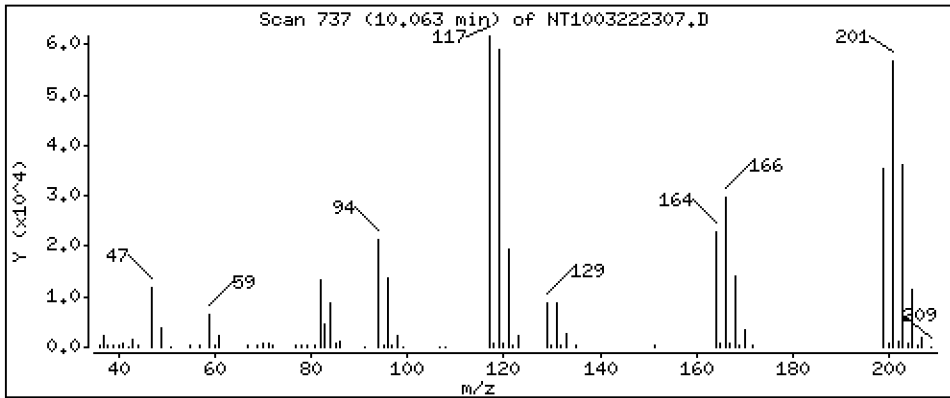
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

17 Hexachloroethane

Concentration: 4.202 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

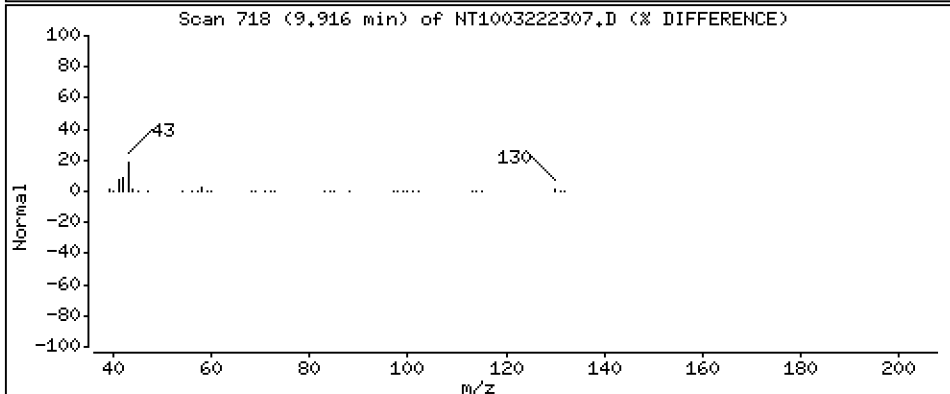
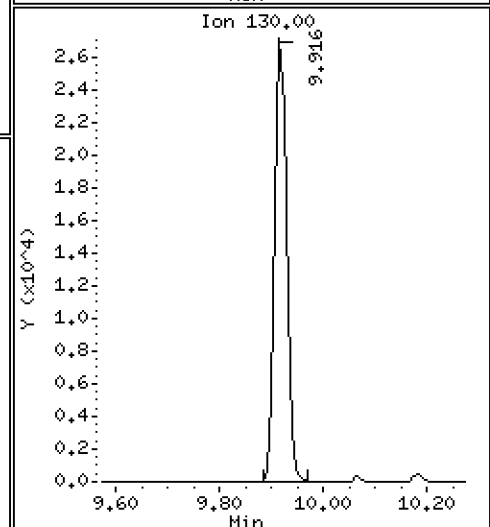
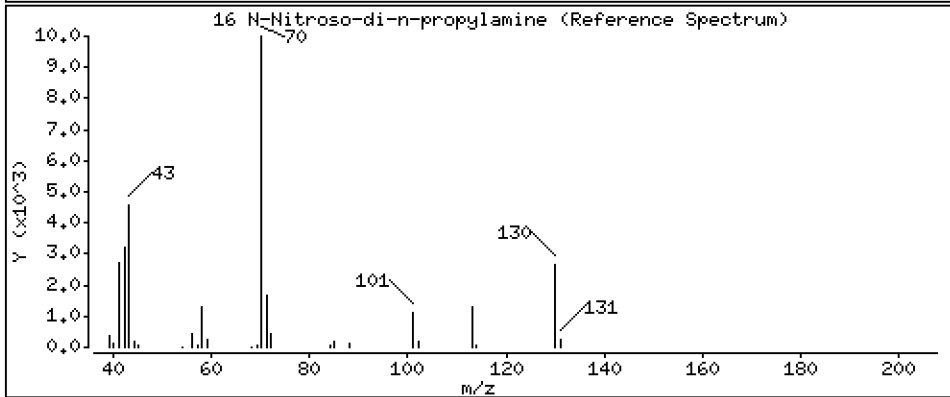
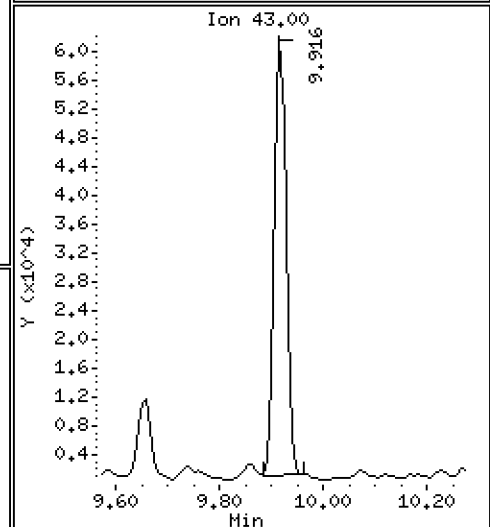
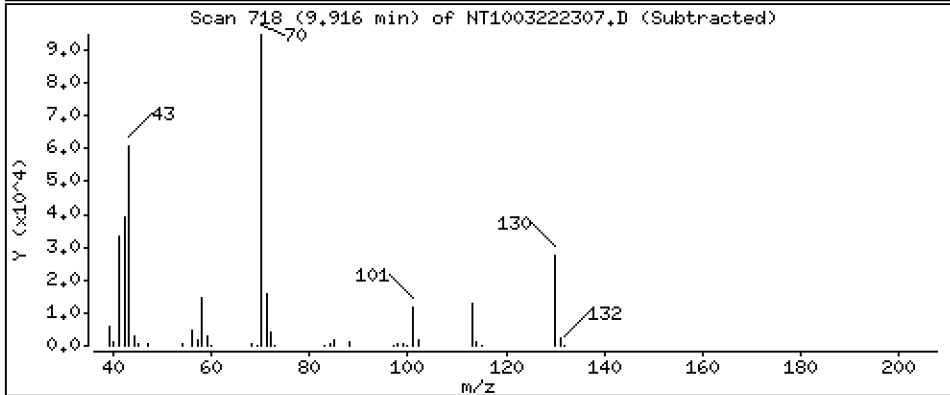
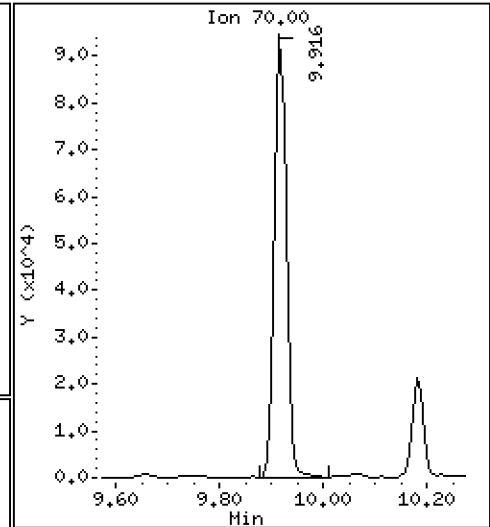
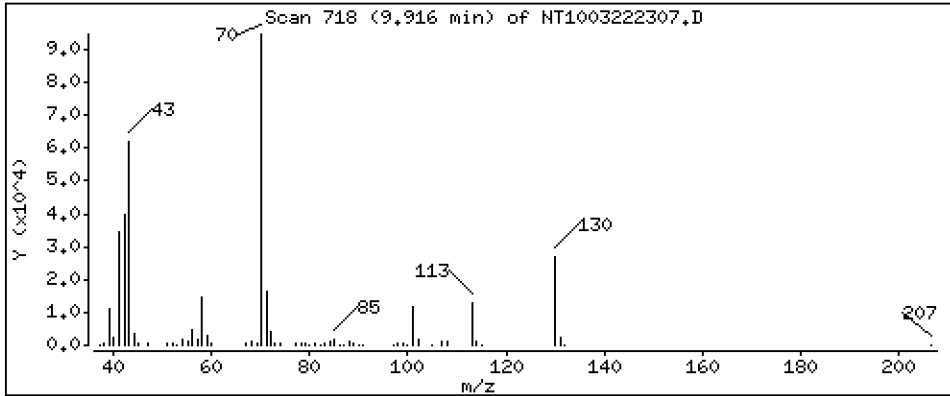
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

16 N-Nitroso-di-n-propylamine

Concentration: 3,876 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

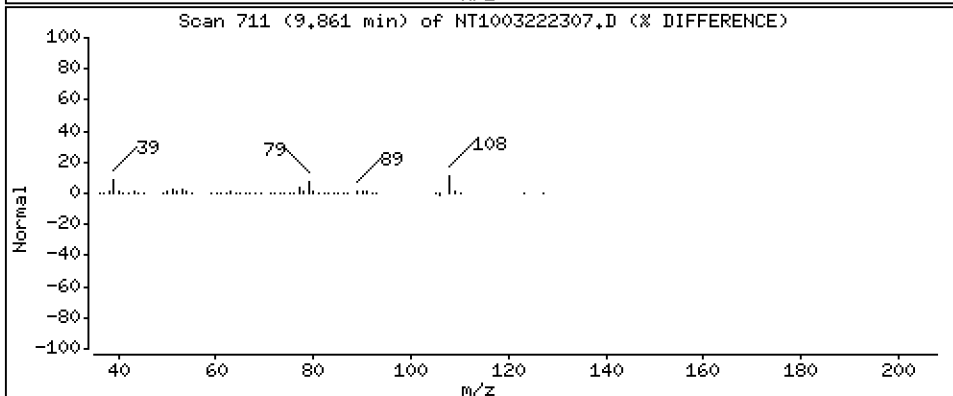
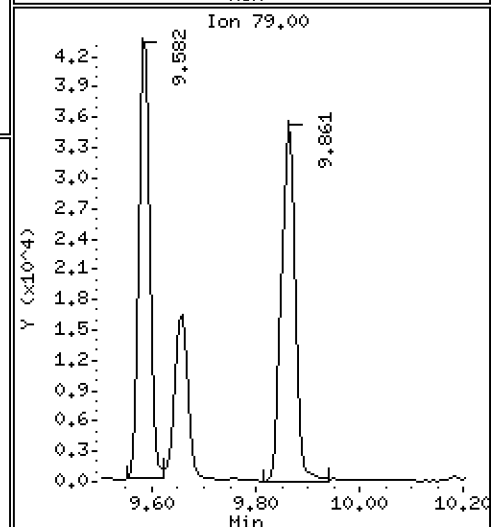
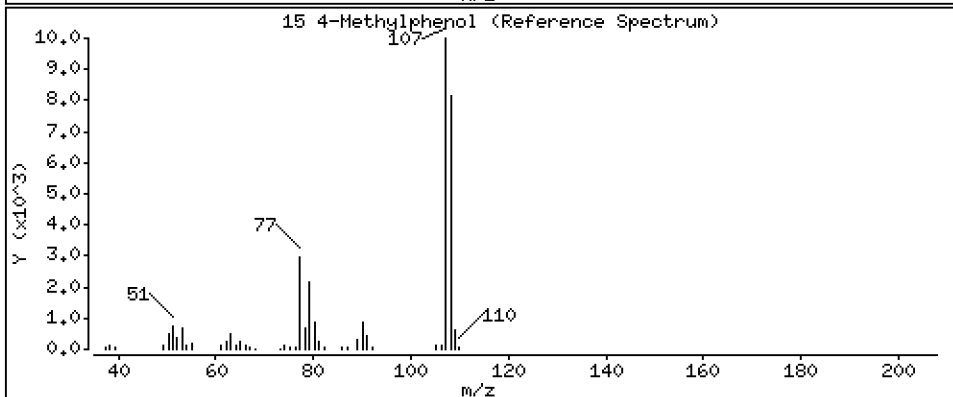
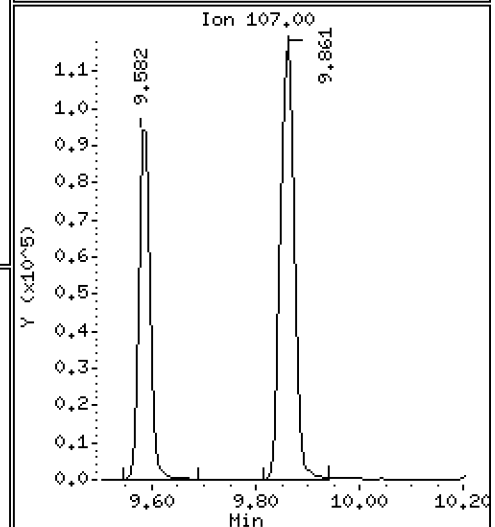
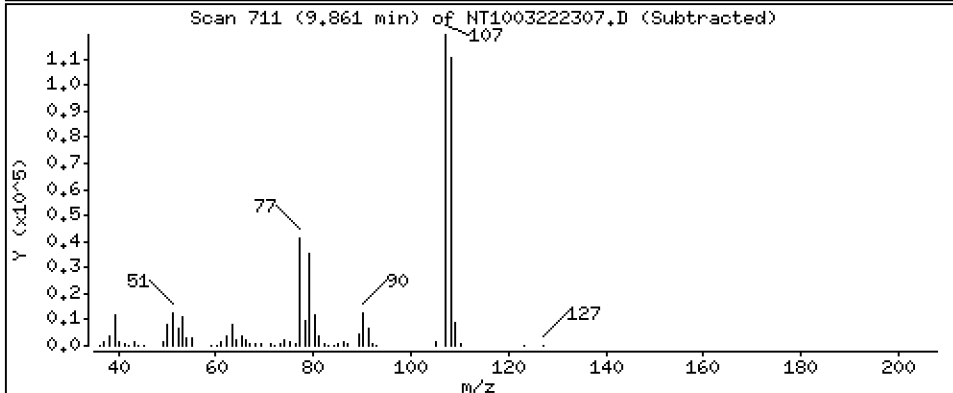
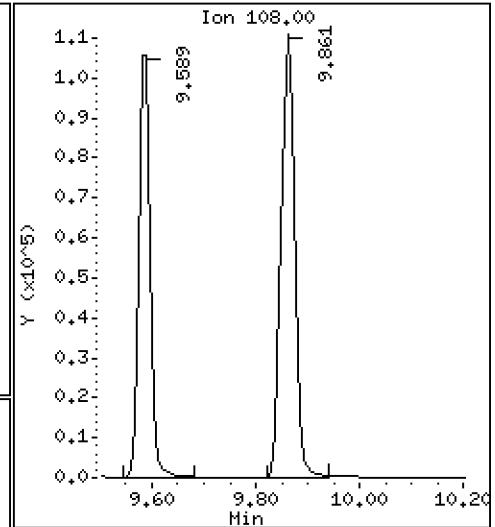
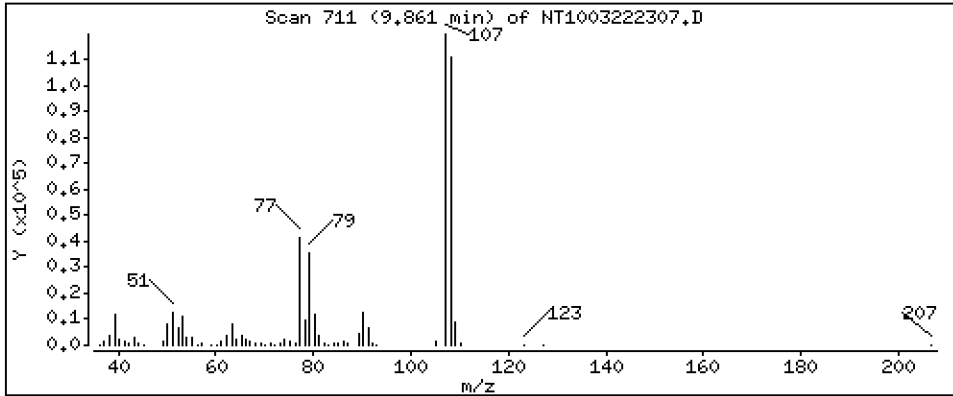
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

15 4-Methylphenol

Concentration: 4,049 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

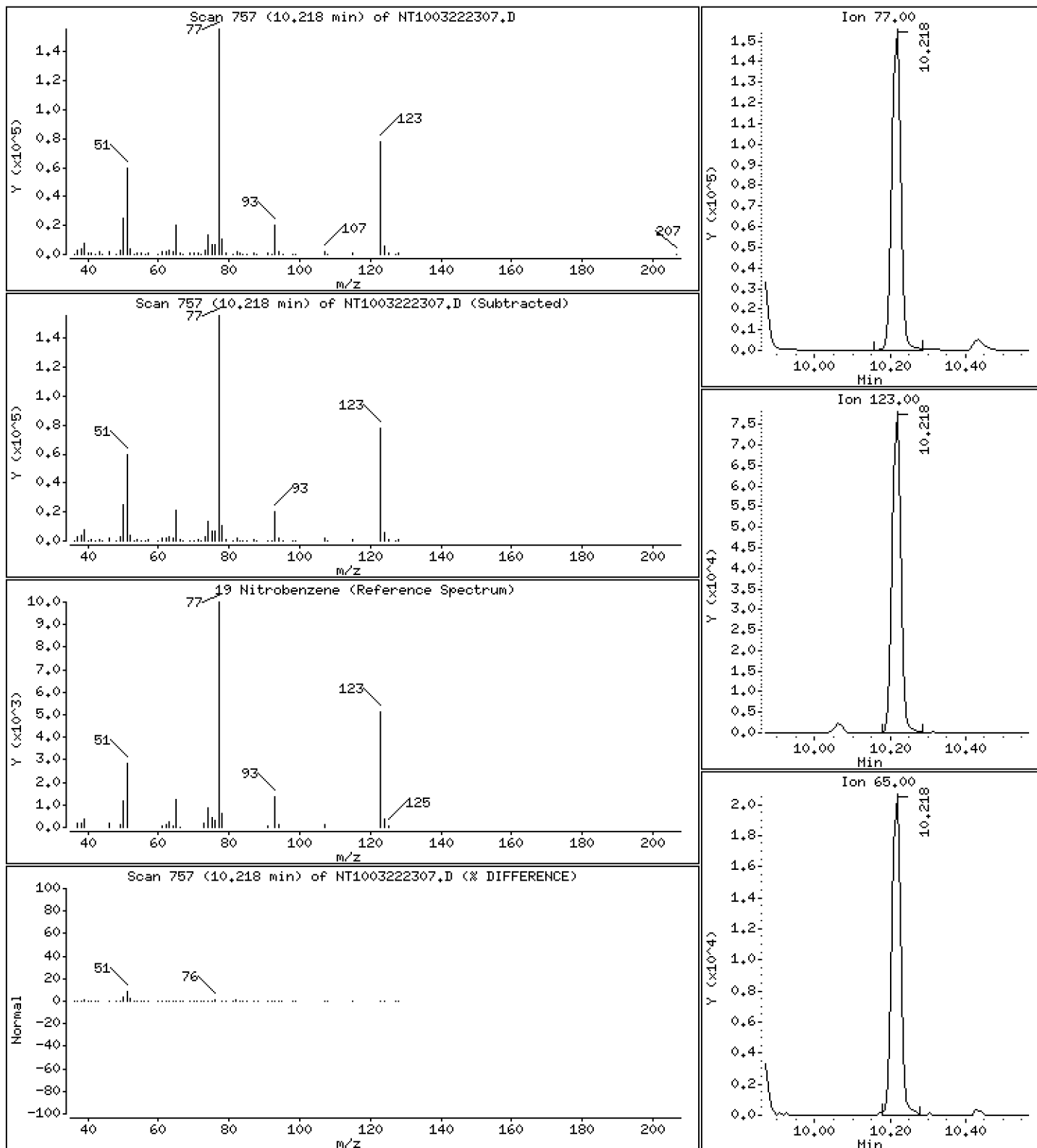
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

19 Nitrobenzene

Concentration: 4,221 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

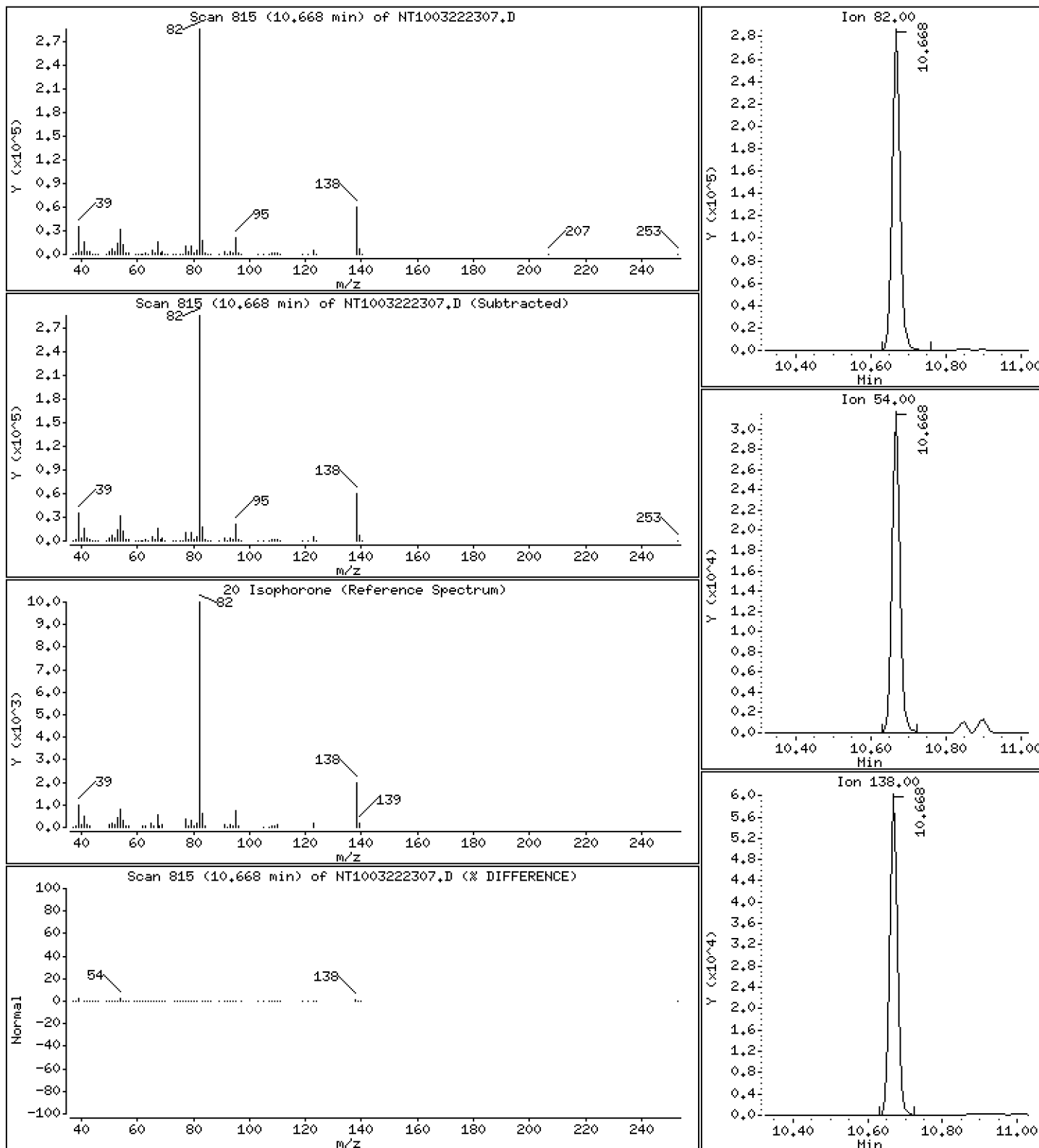
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

20 Isophorone

Concentration: 5,879 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

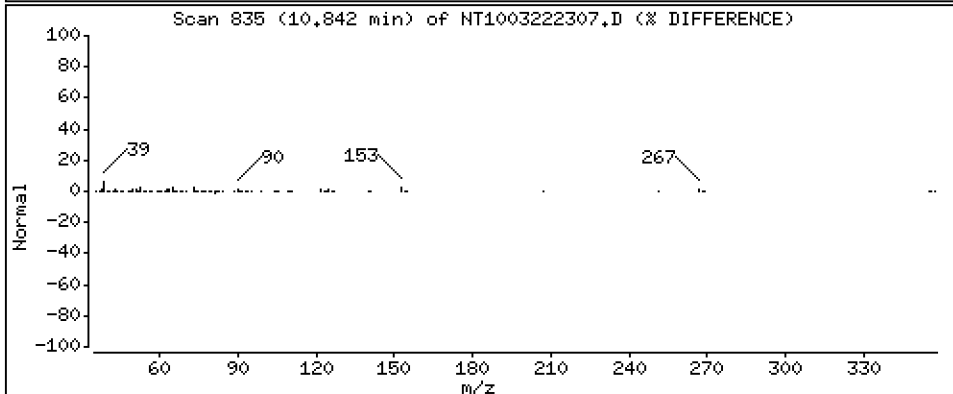
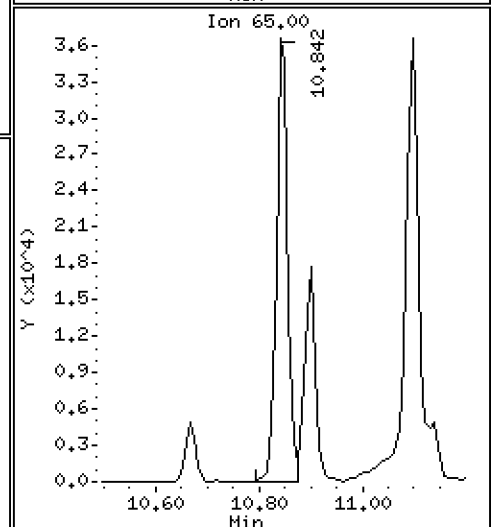
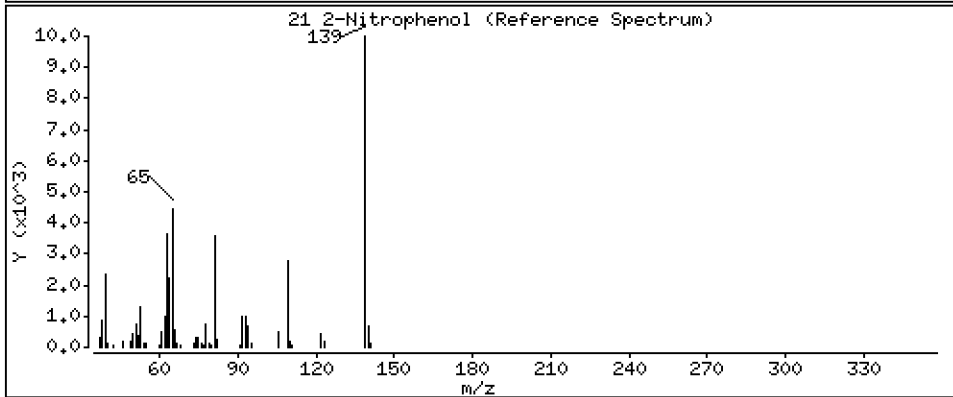
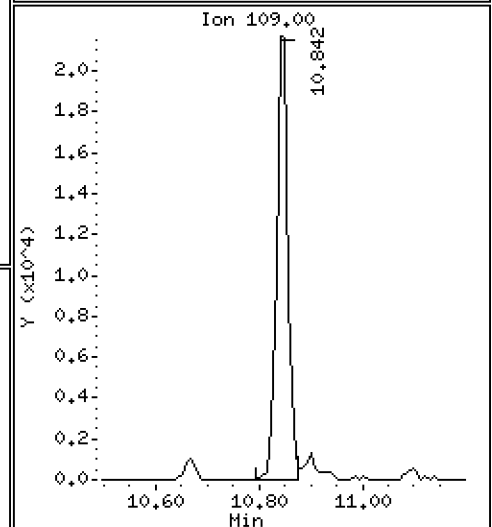
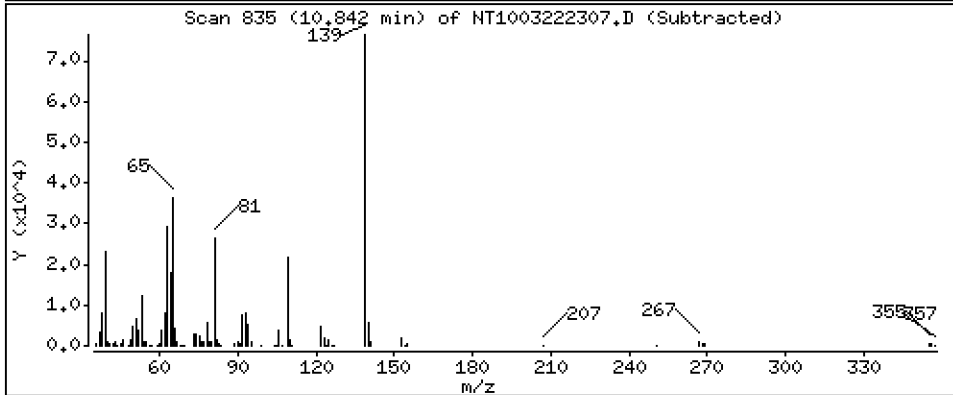
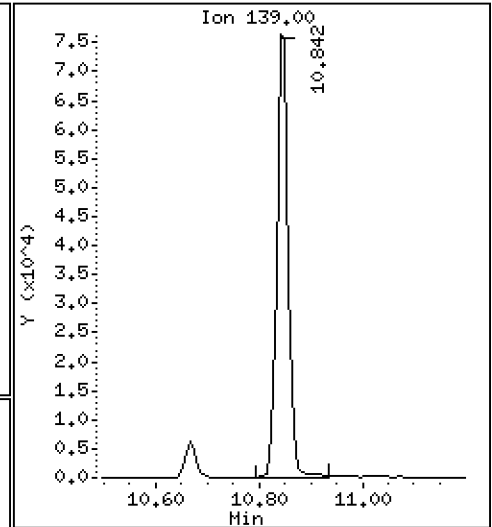
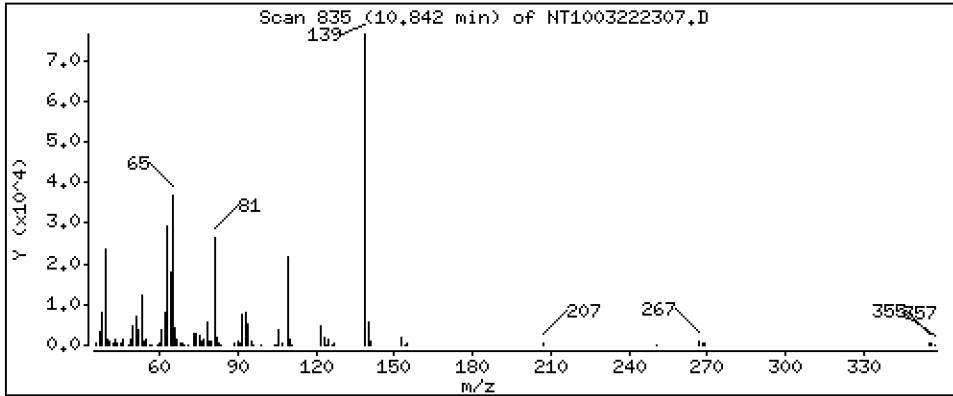
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

21 2-Nitrophenol

Concentration: 4,956 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

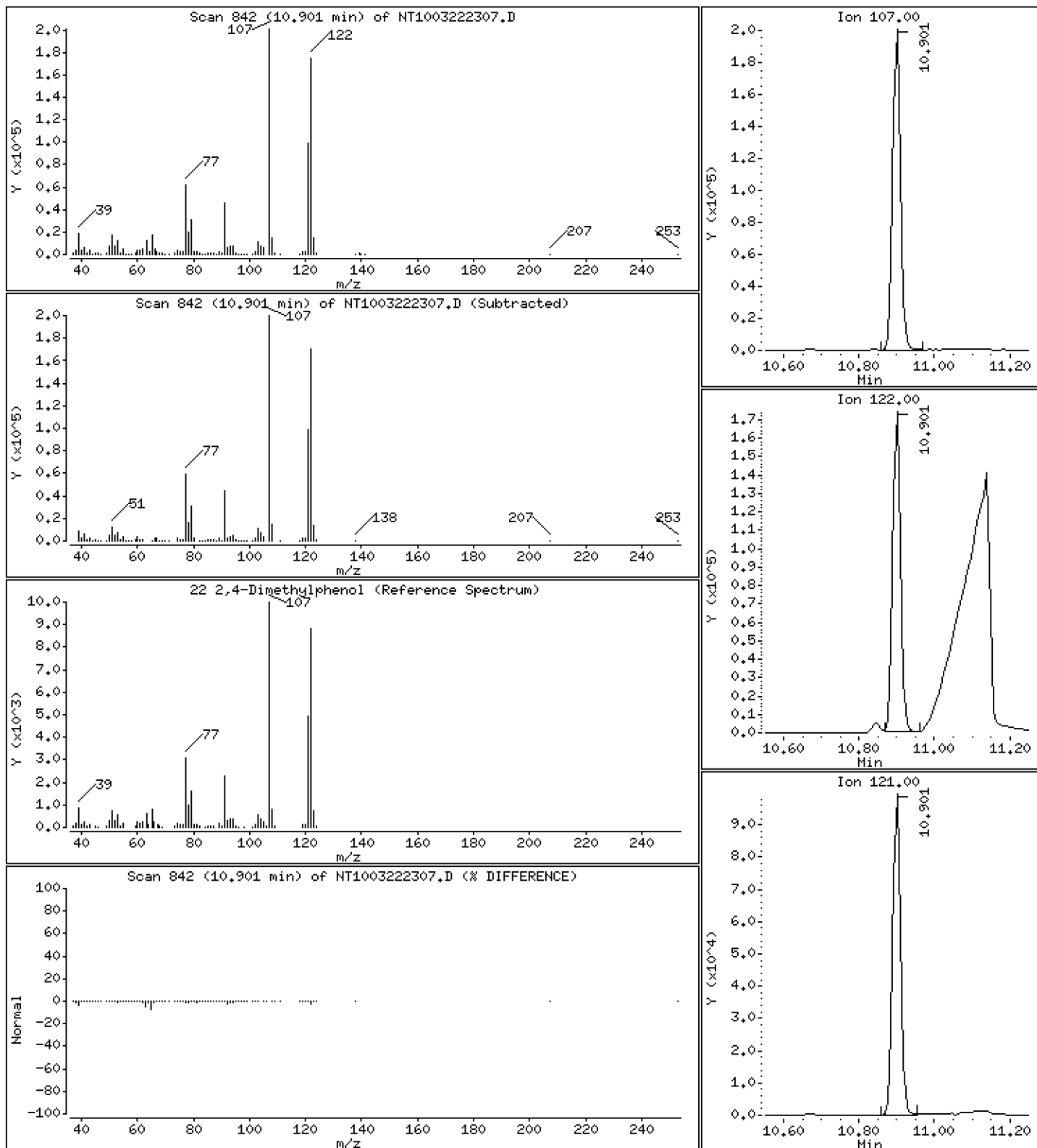
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 5,507 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

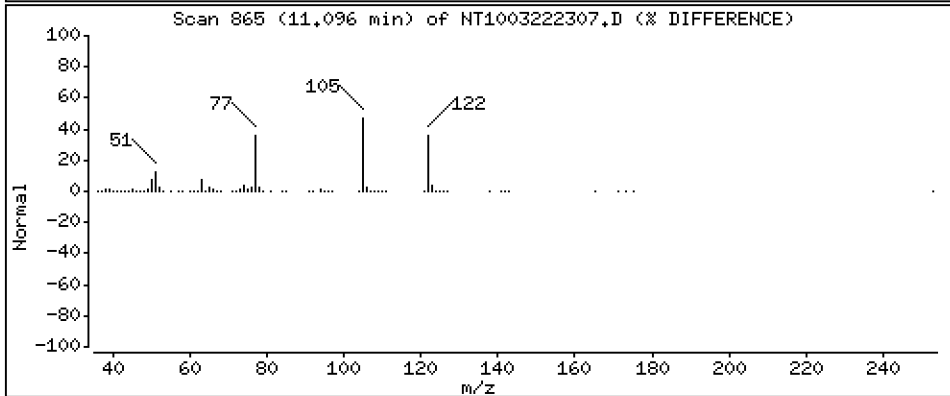
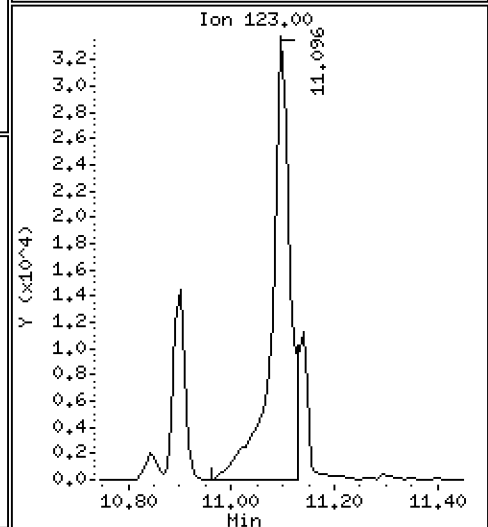
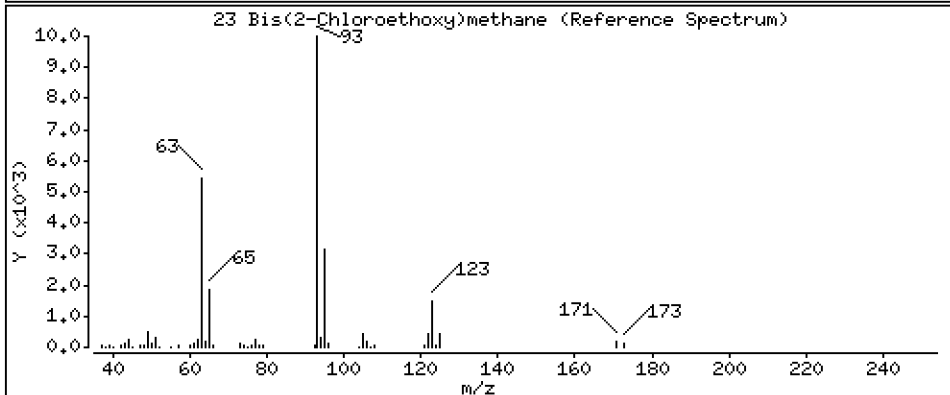
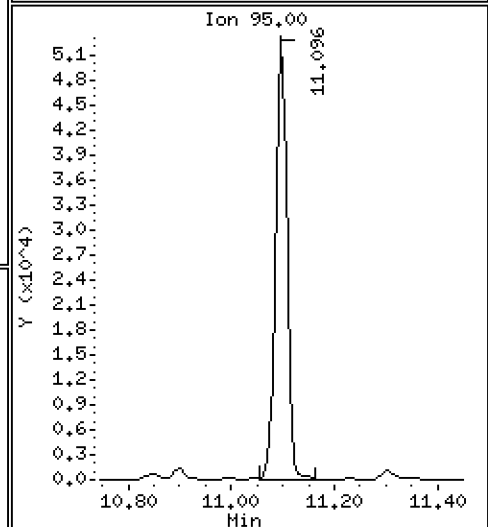
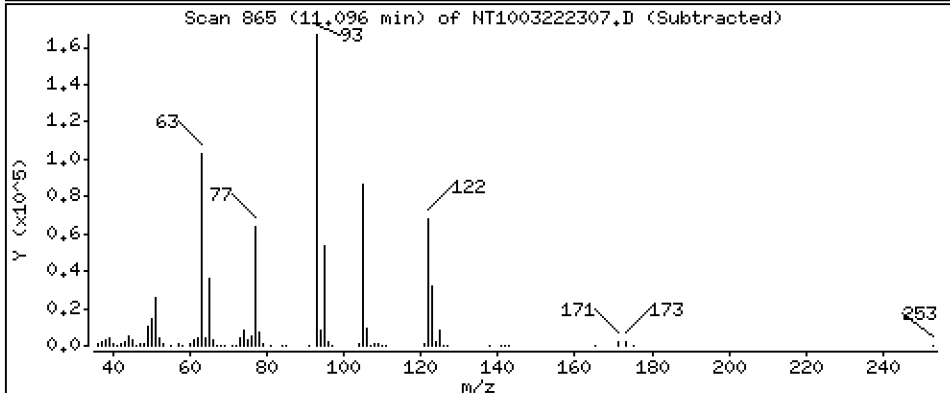
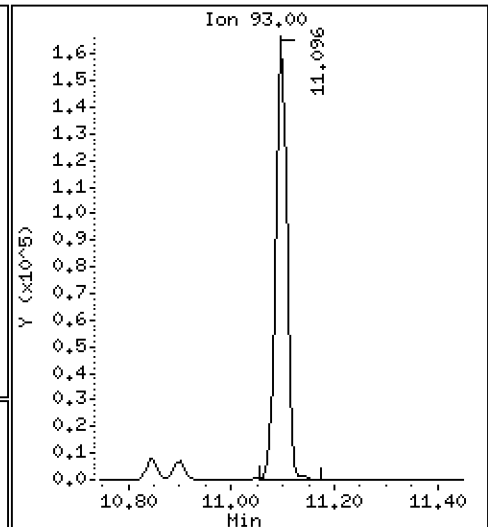
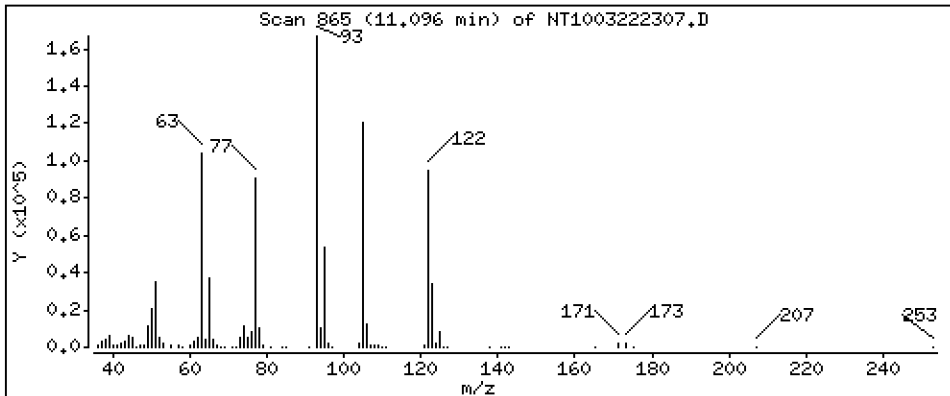
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

23 Bis(2-Chloroethoxy)methane

Concentration: 5,023 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

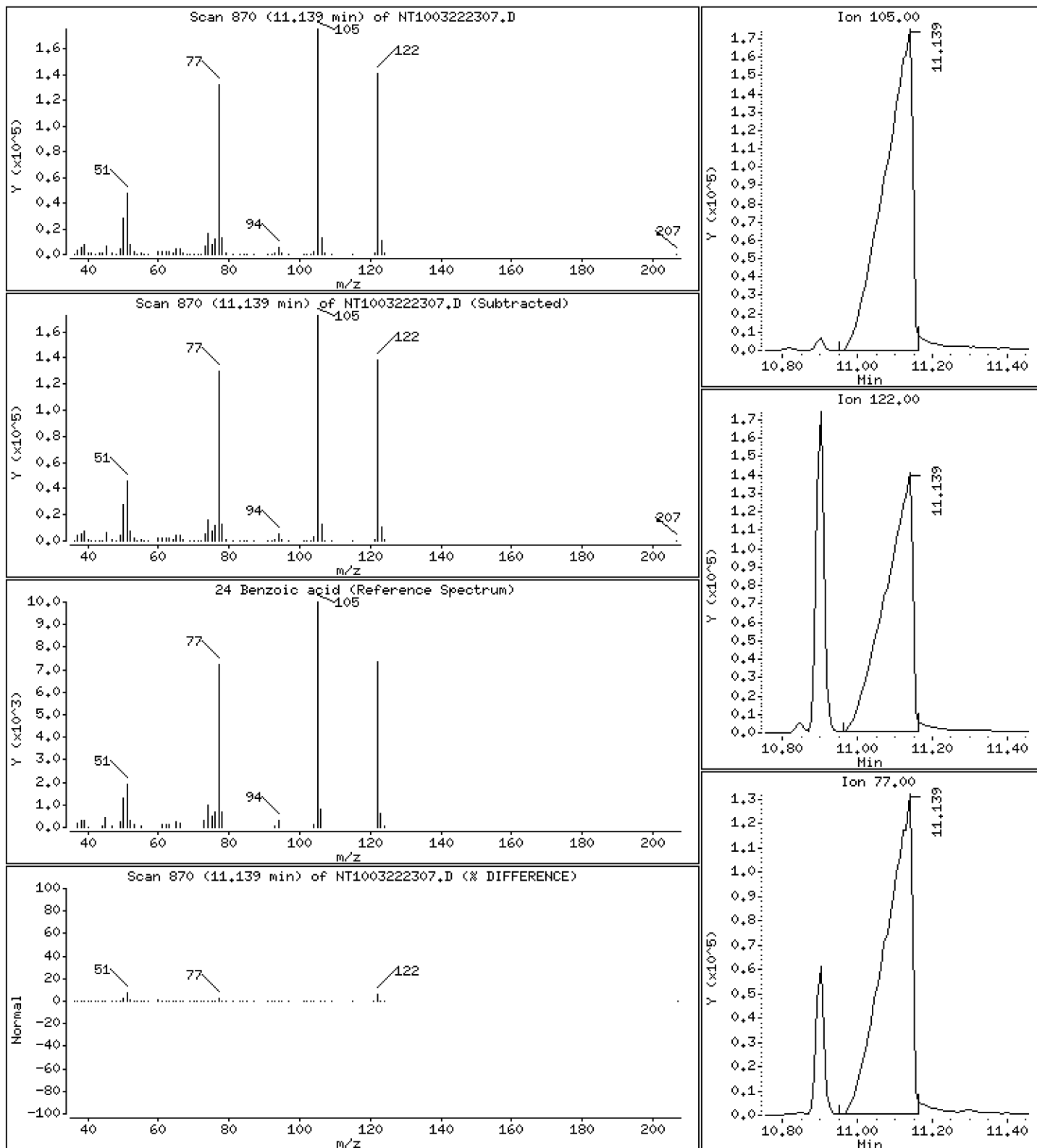
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

24 Benzoic acid

Concentration: 28,95 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

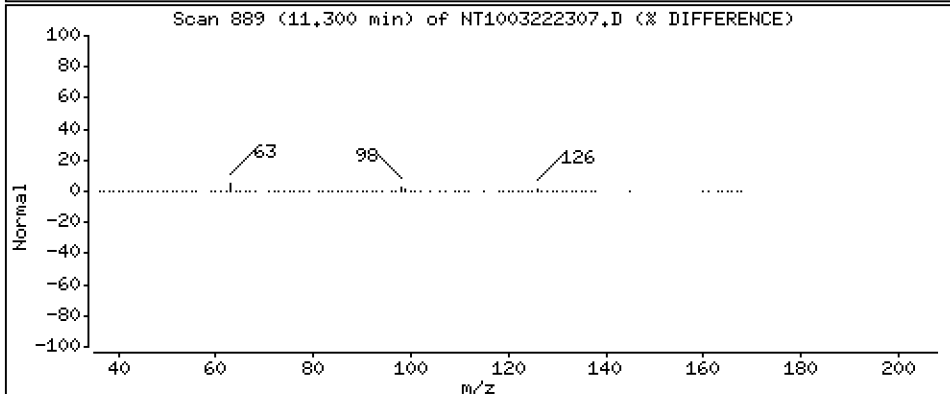
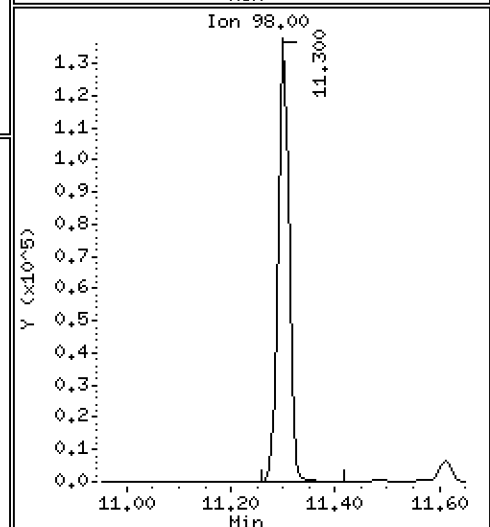
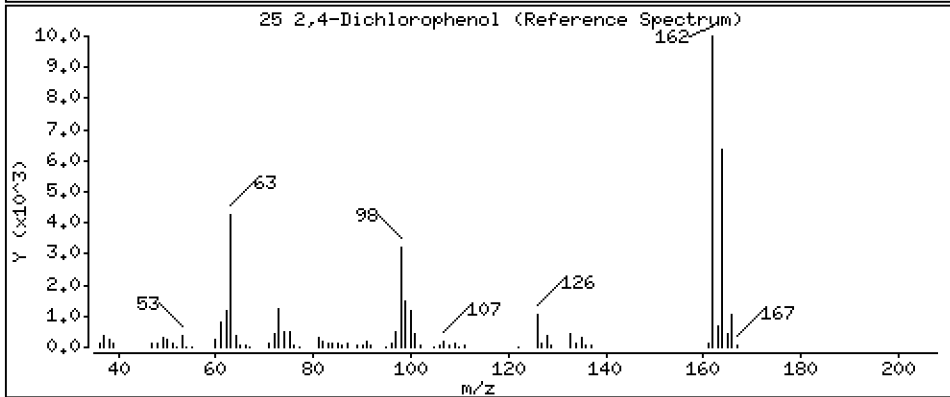
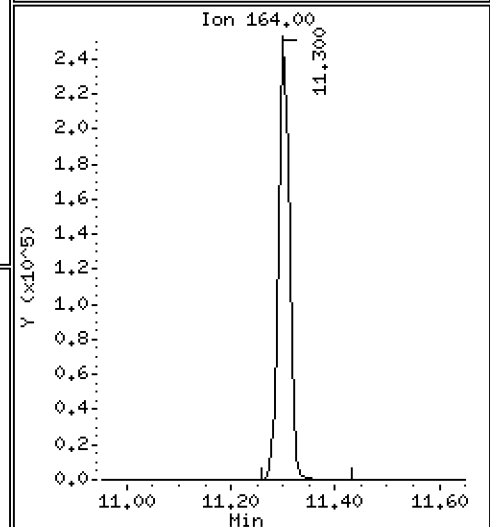
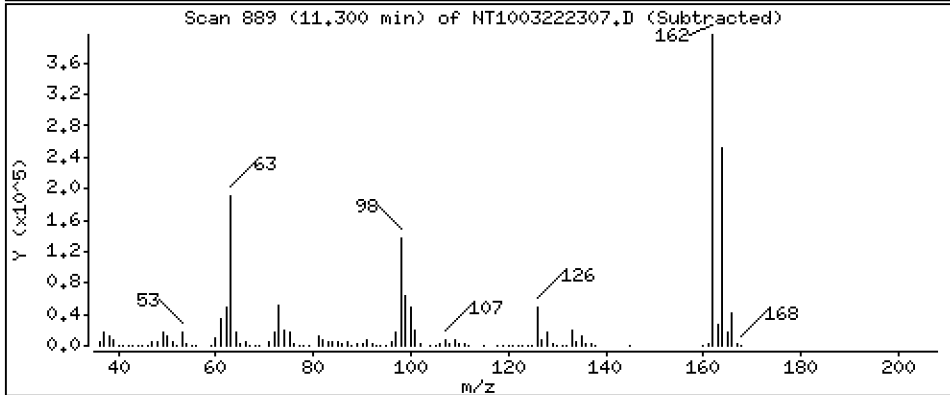
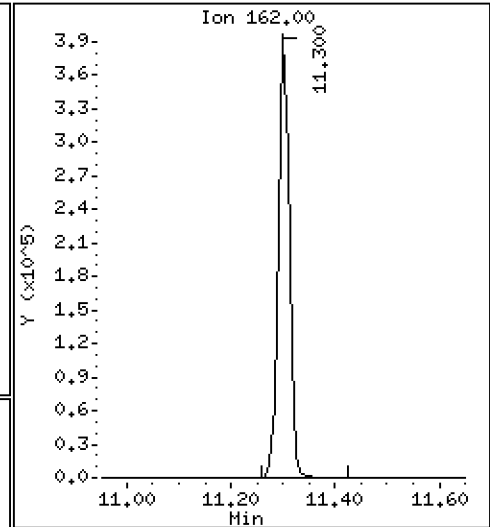
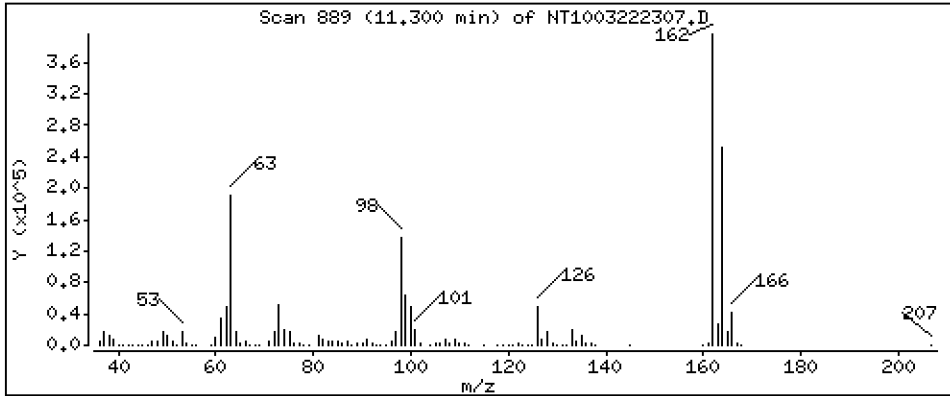
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 15,16 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

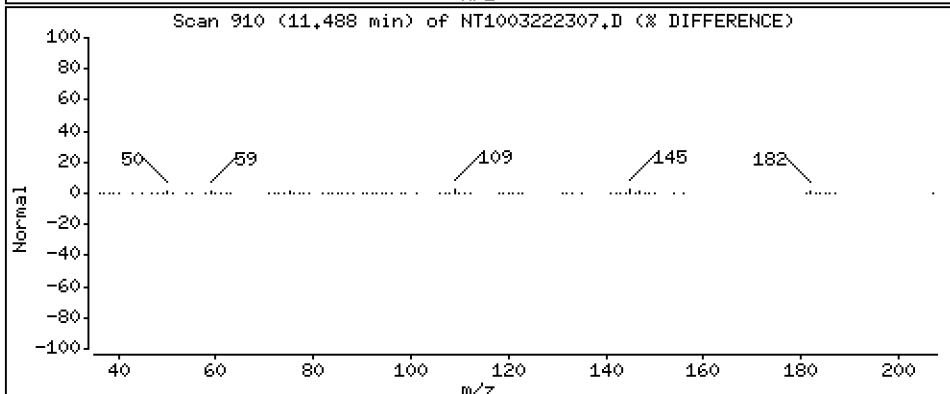
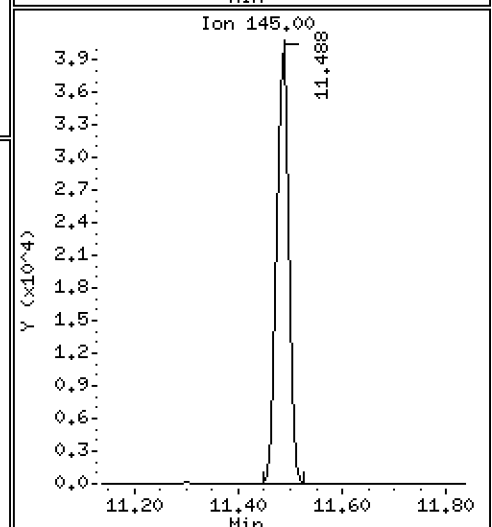
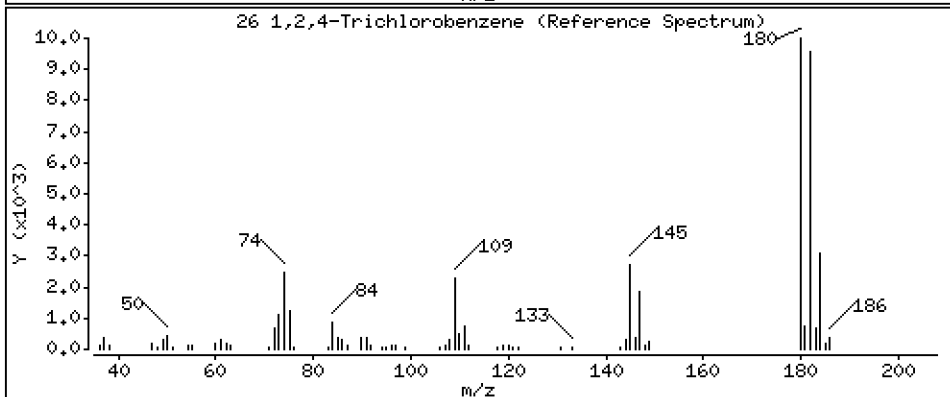
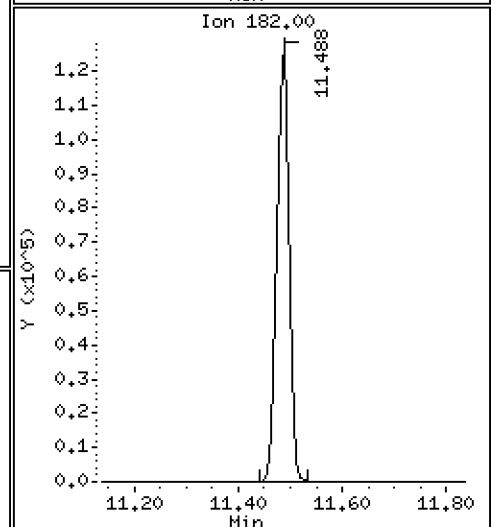
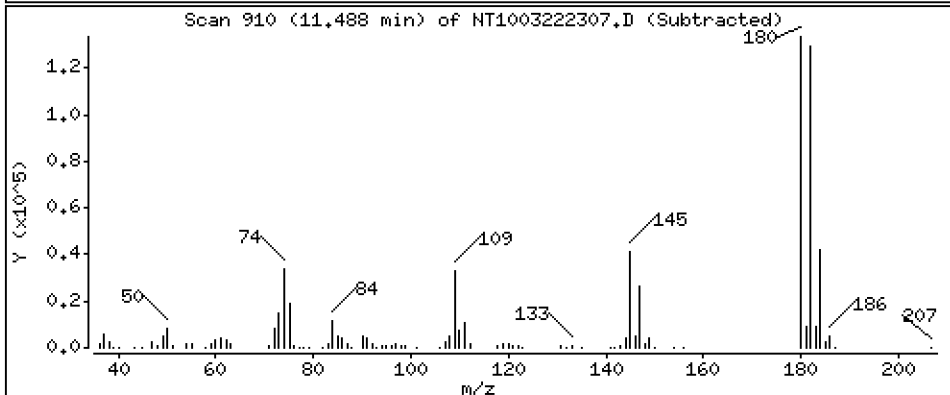
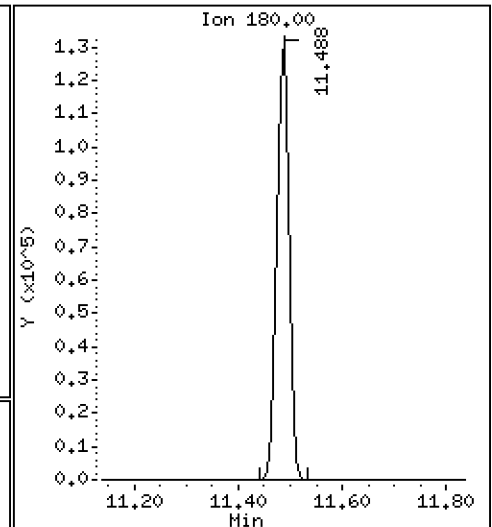
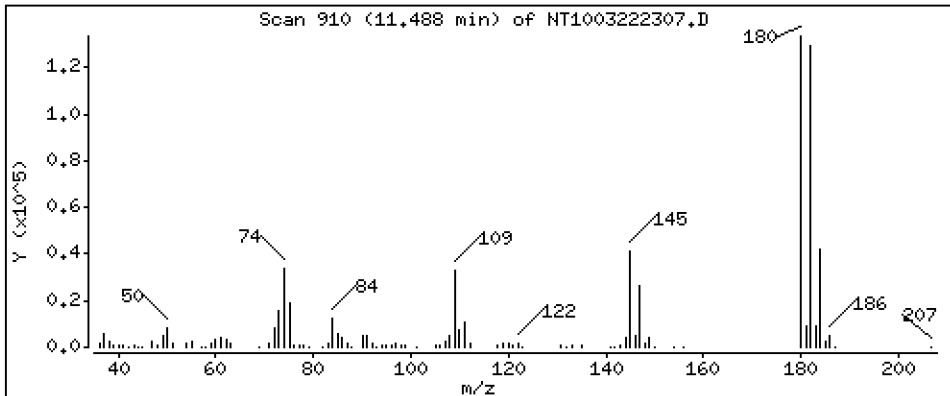
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 4,252 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

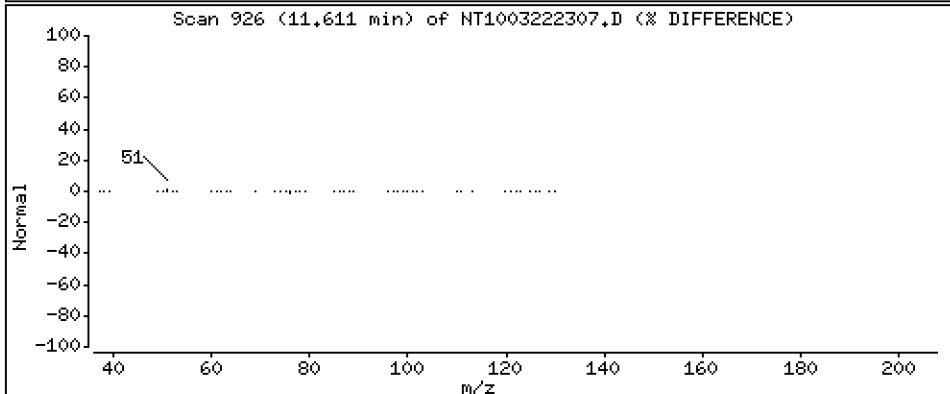
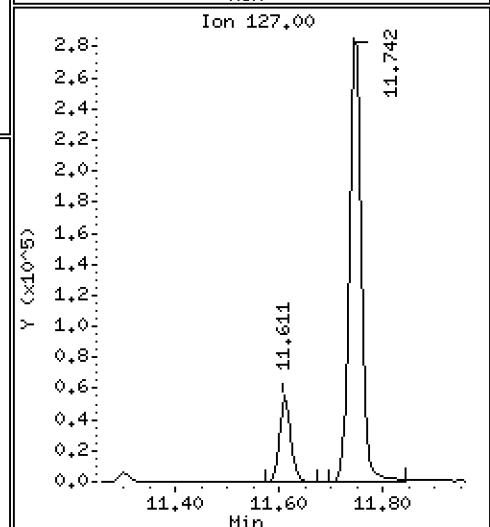
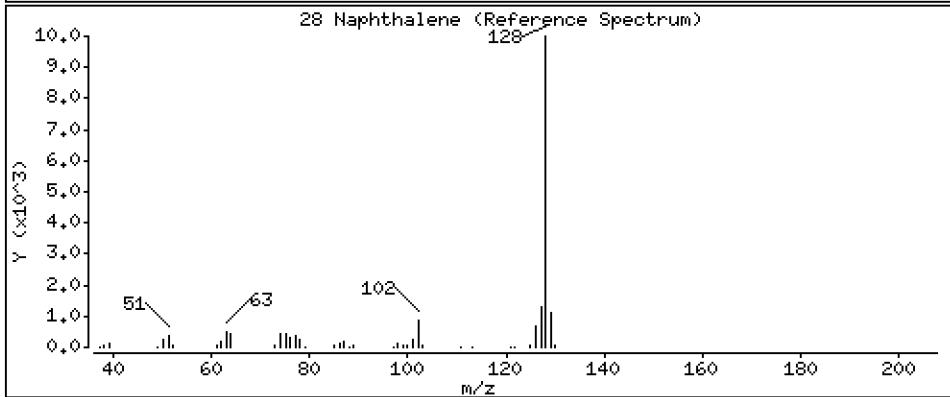
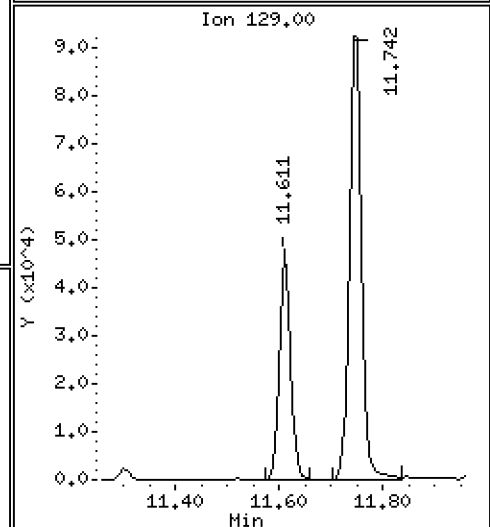
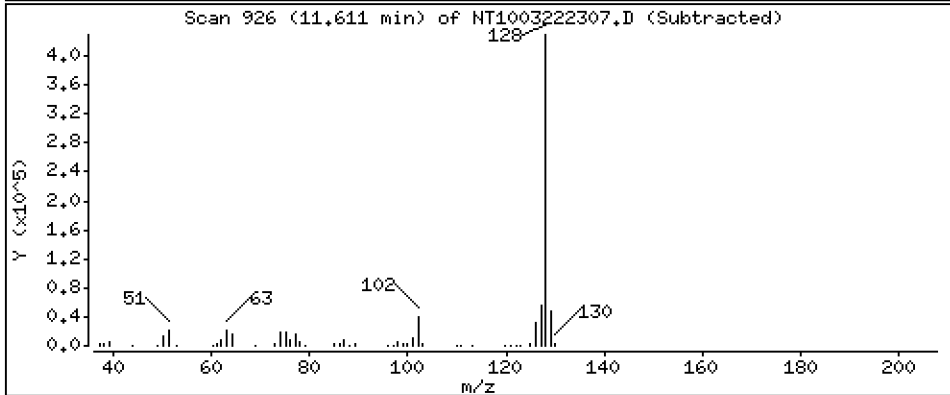
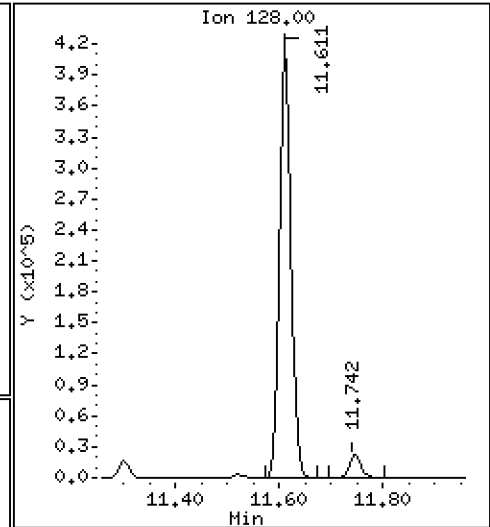
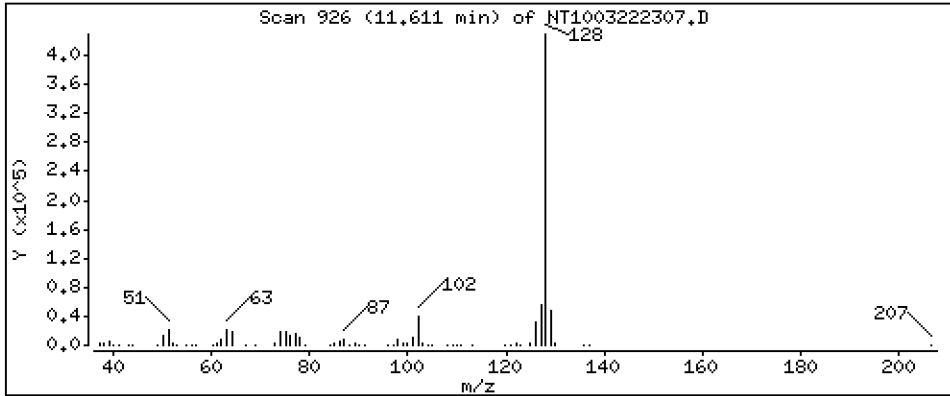
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 4,234 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

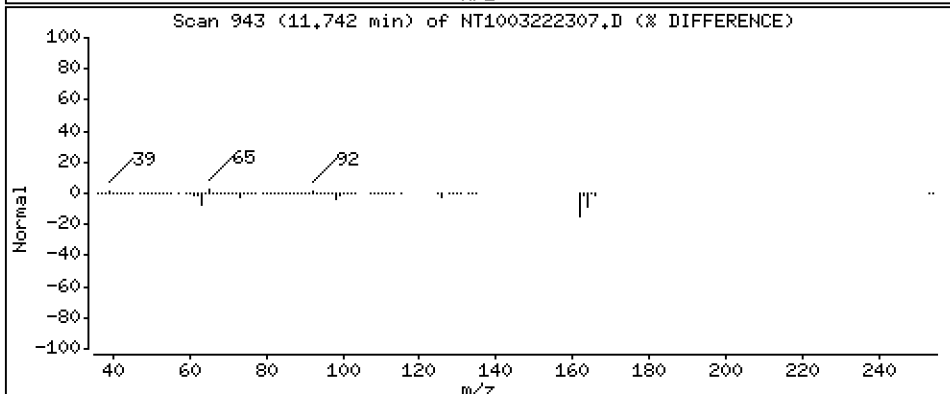
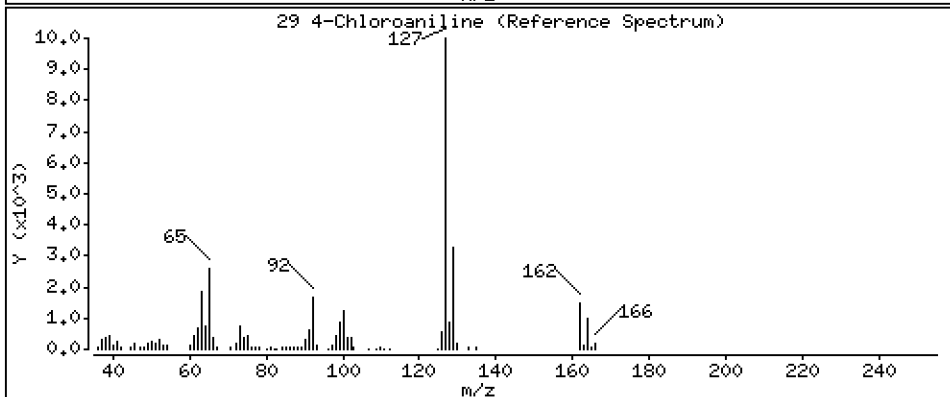
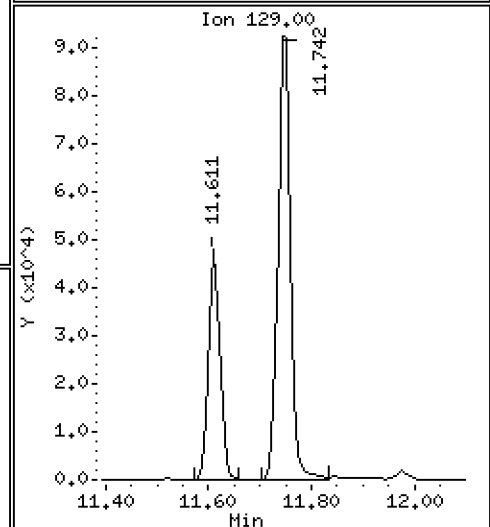
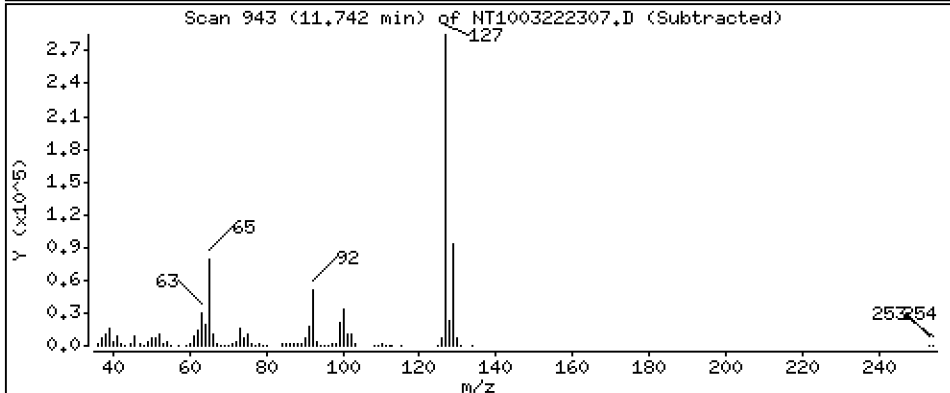
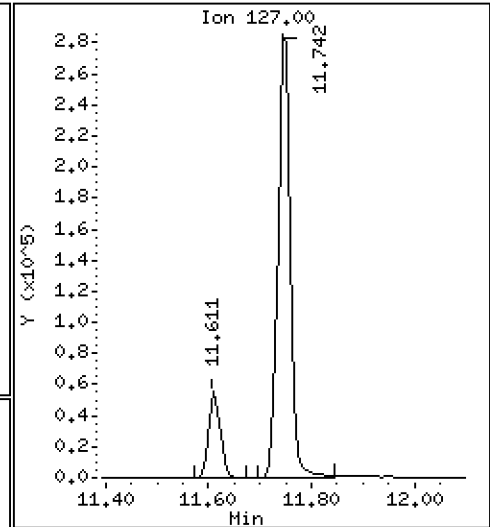
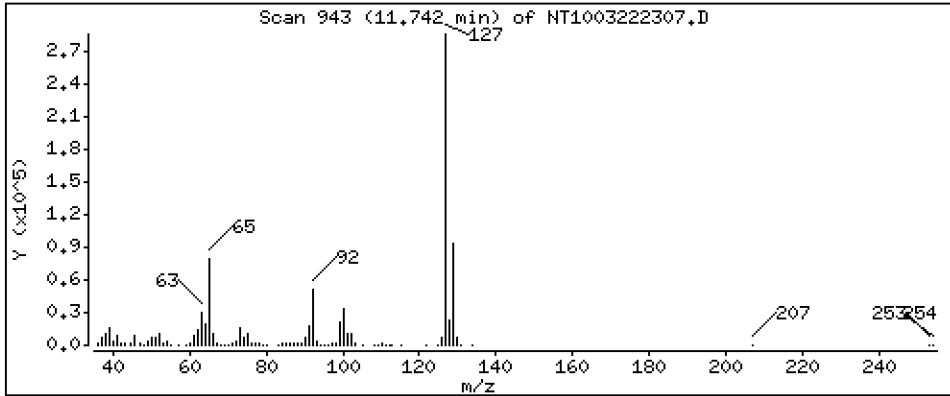
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

29 4-Chloroaniline

Concentration: 8,022 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

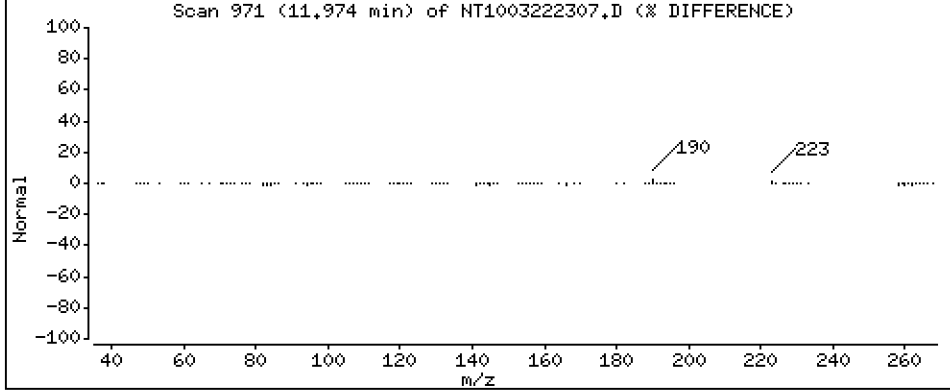
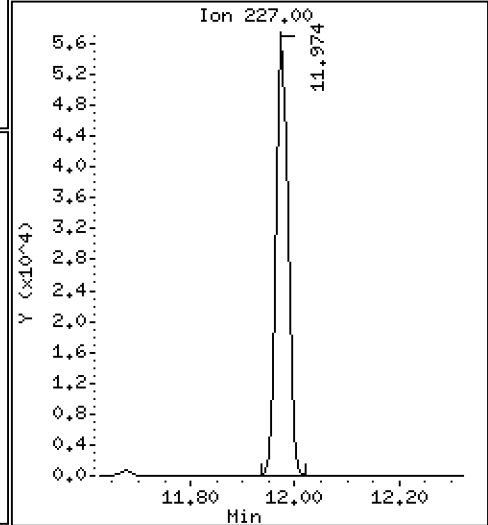
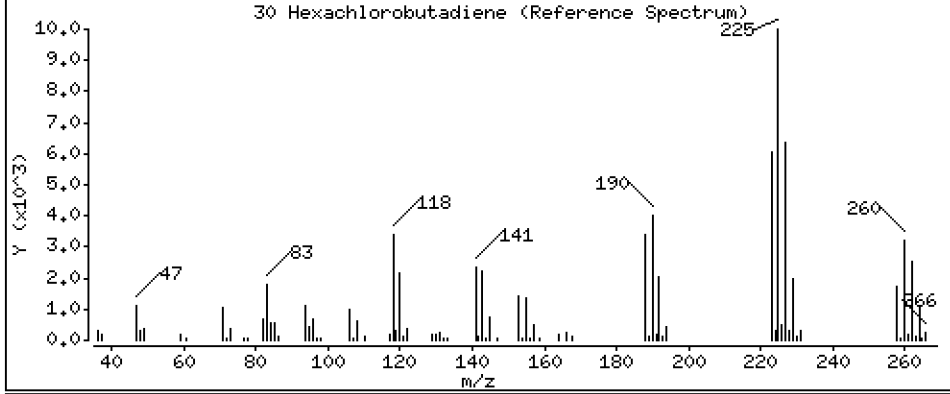
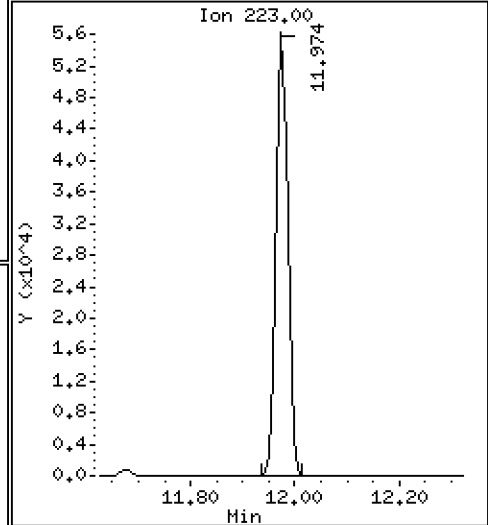
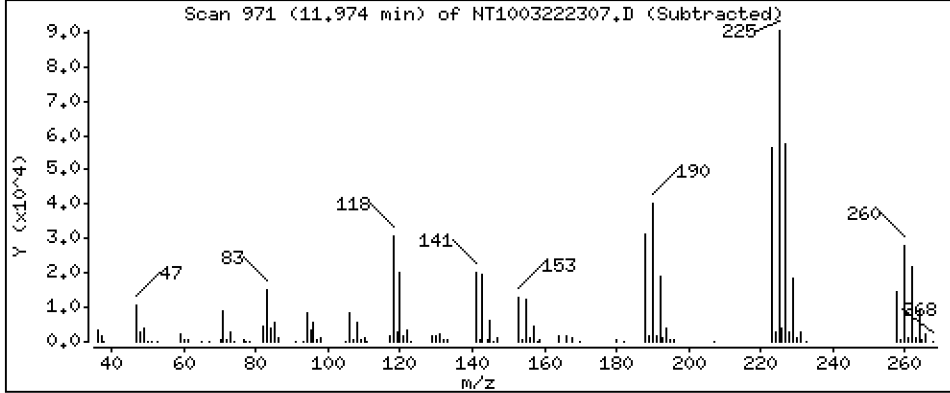
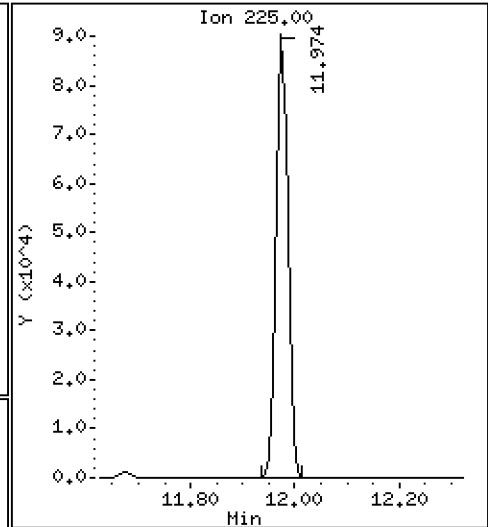
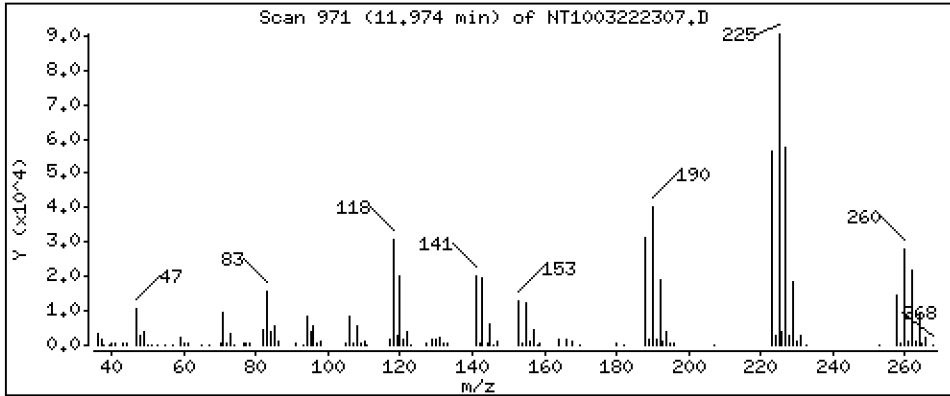
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 4,664 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

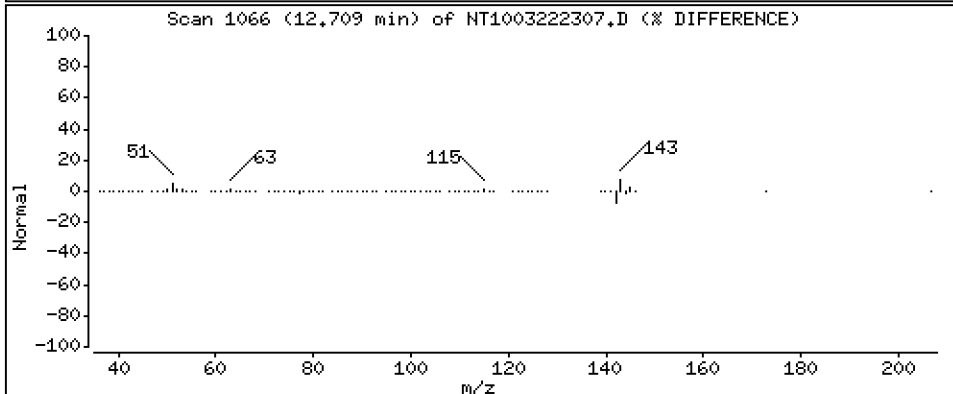
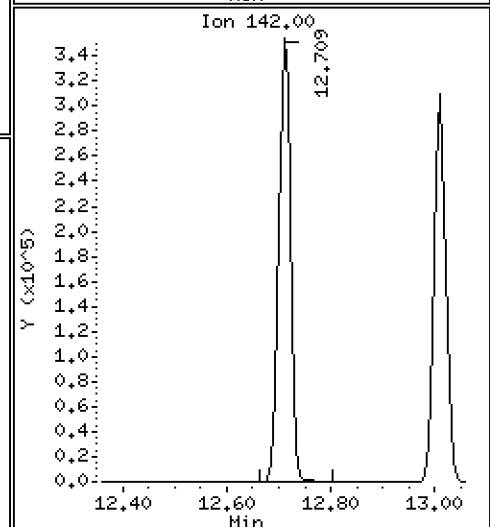
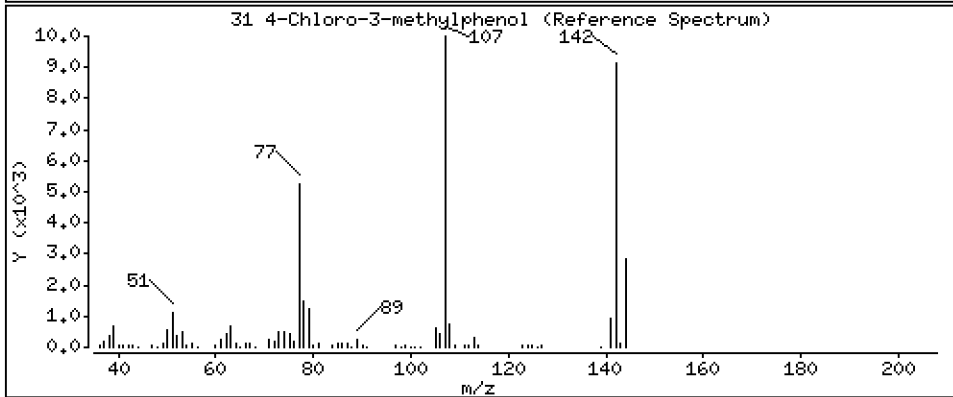
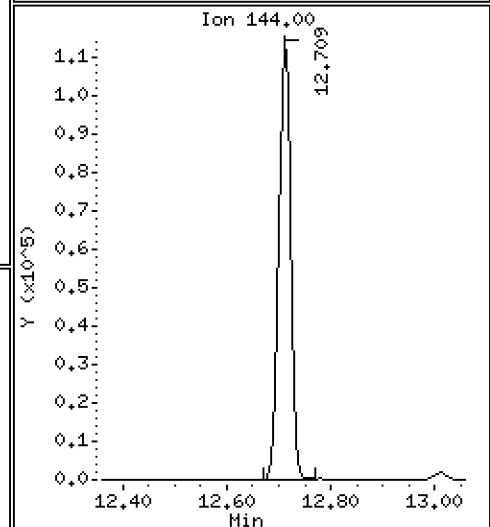
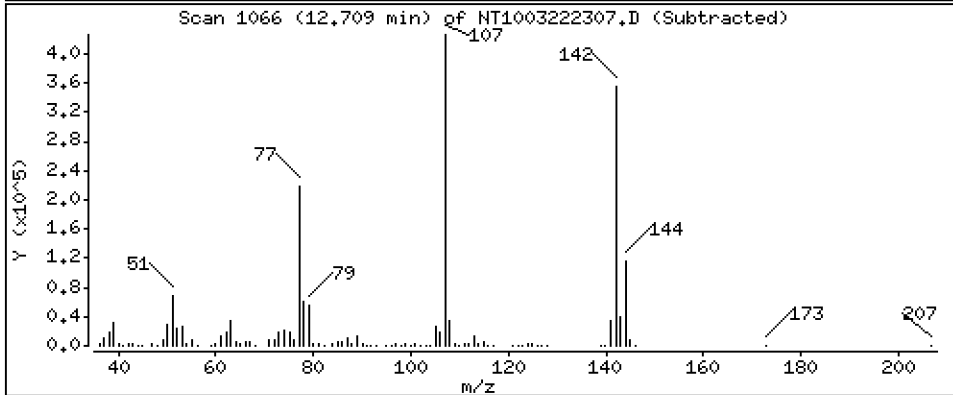
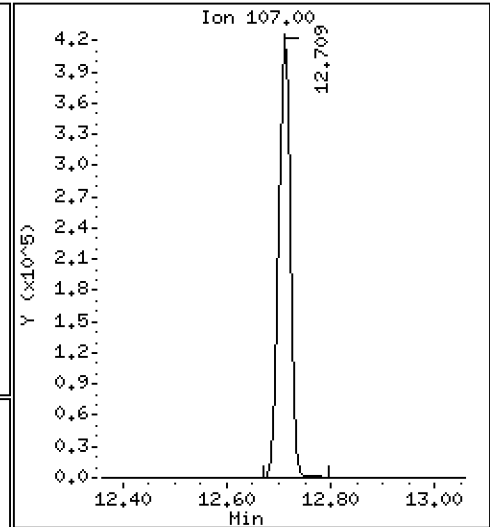
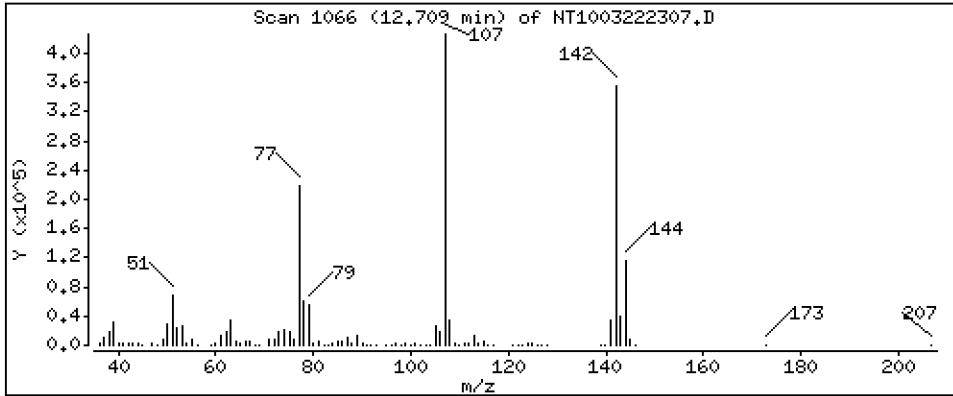
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

31 4-Chloro-3-methylphenol

Concentration: 13,70 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

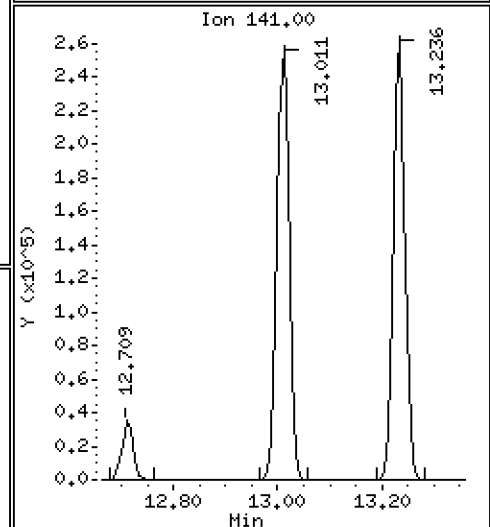
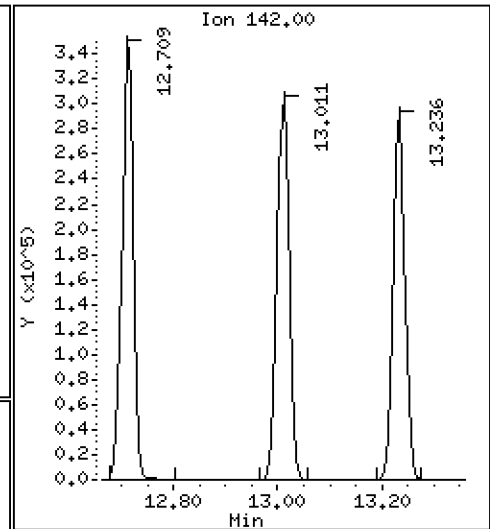
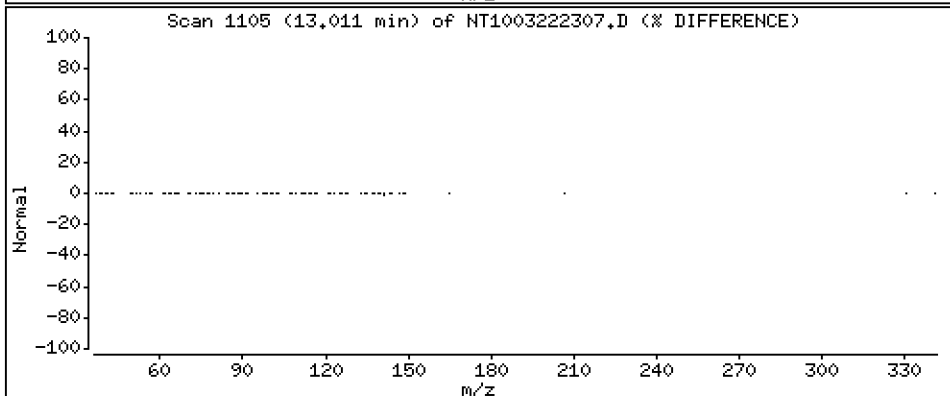
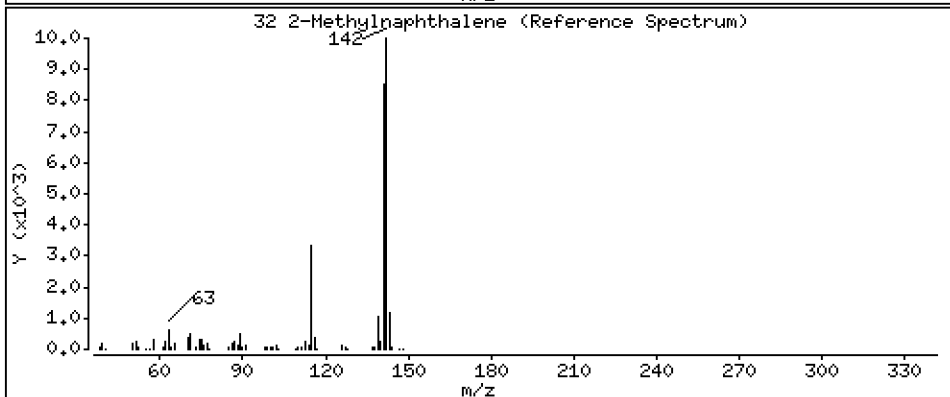
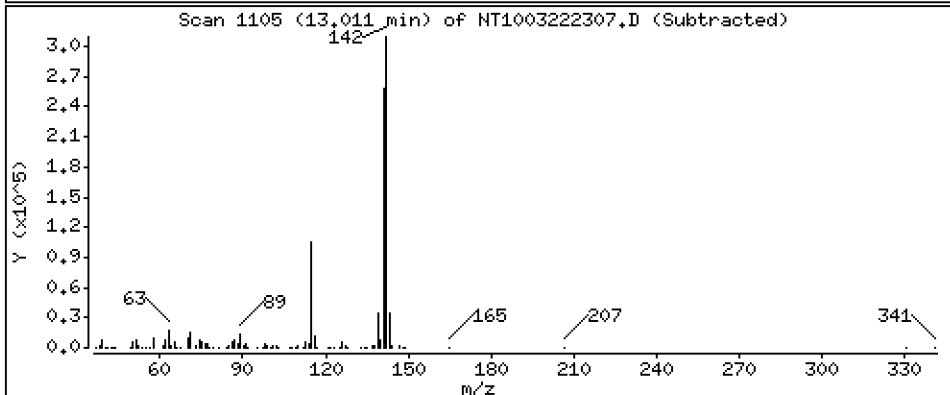
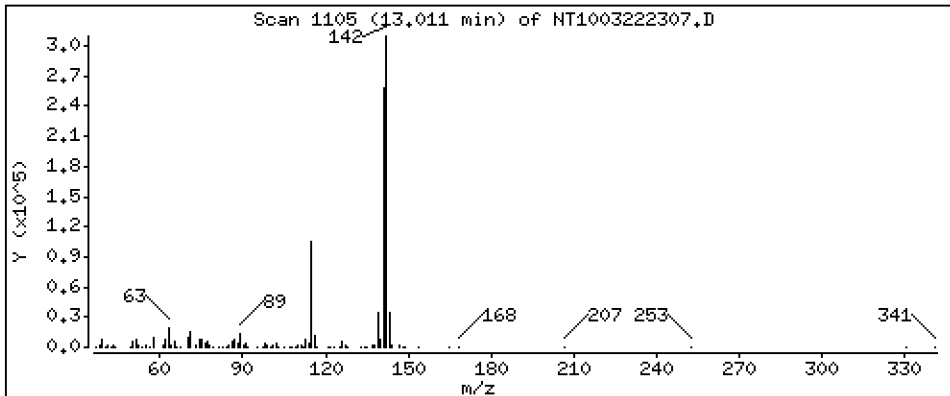
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 4,329 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

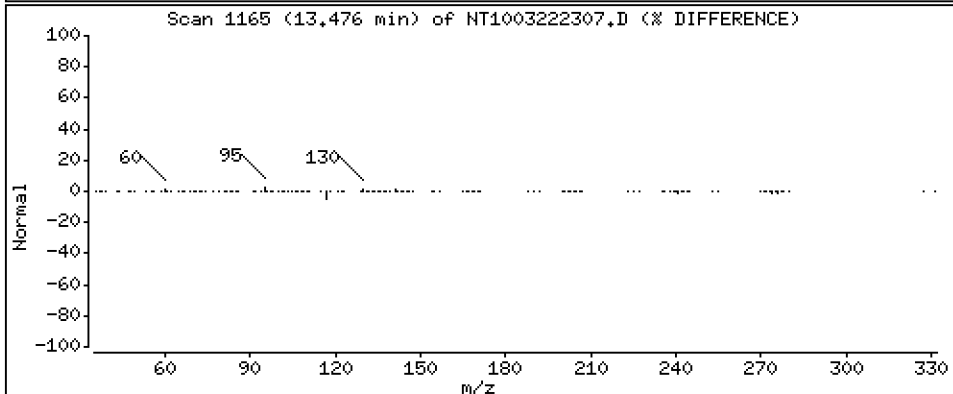
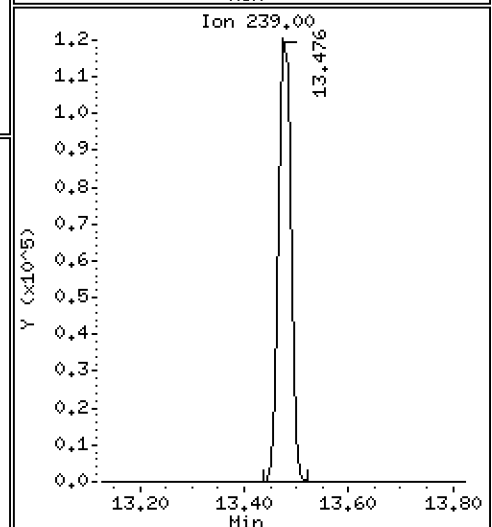
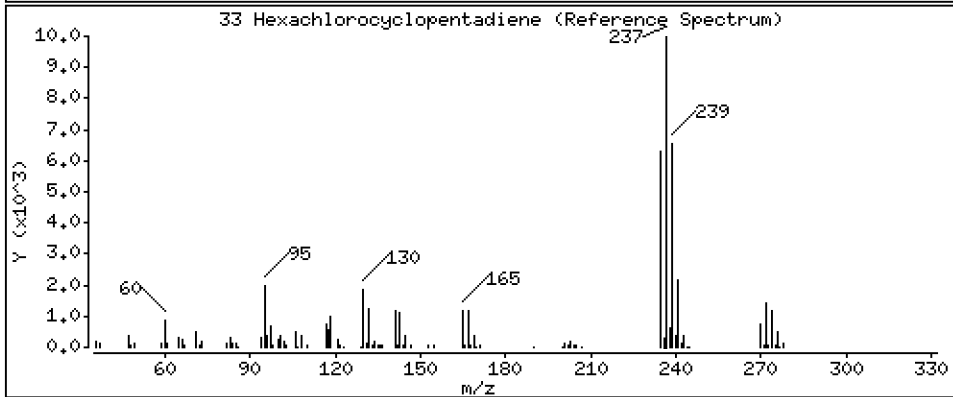
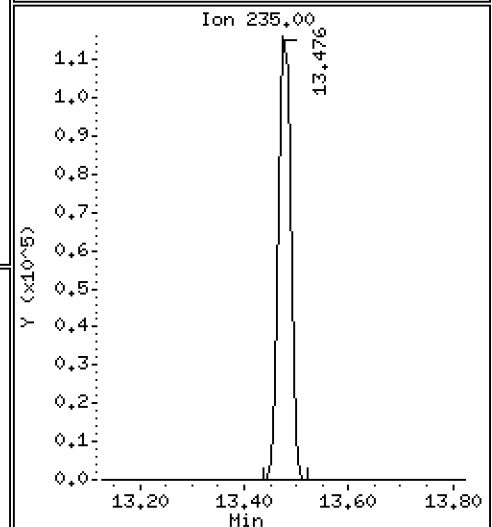
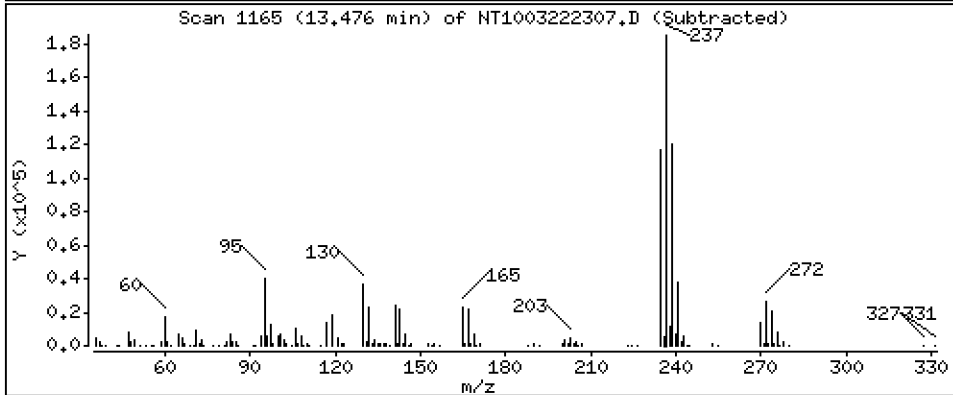
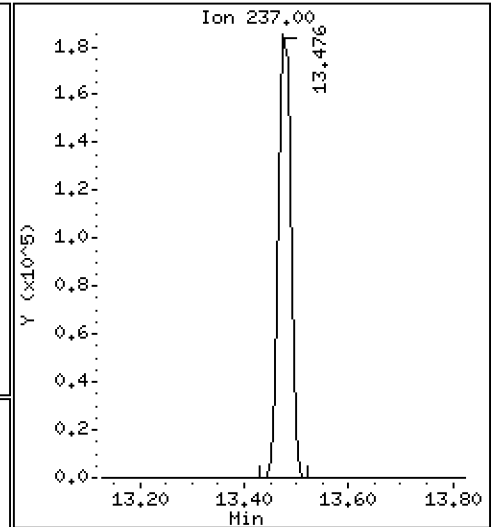
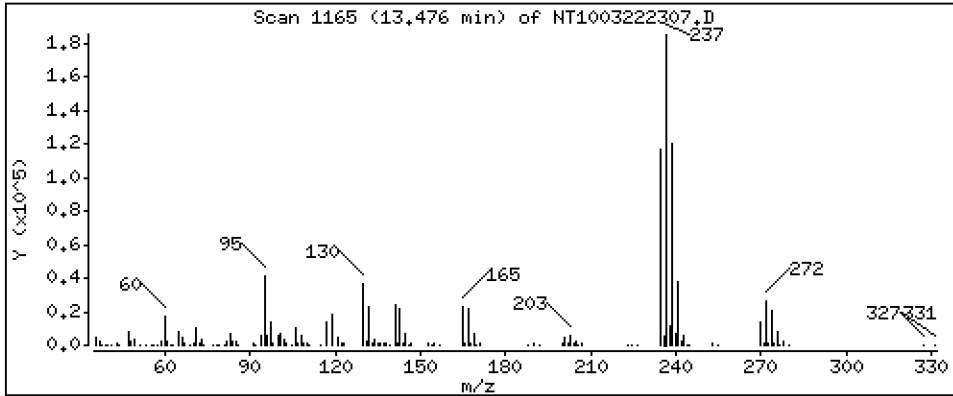
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

33 Hexachlorocyclopentadiene

Concentration: 9,646 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

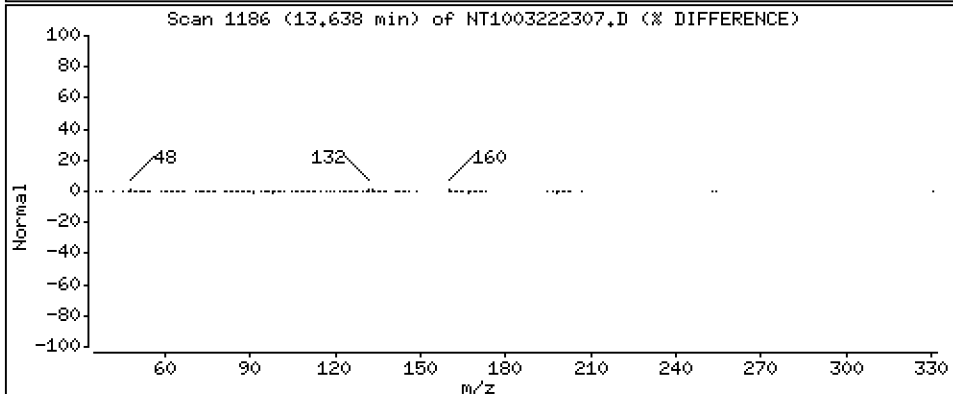
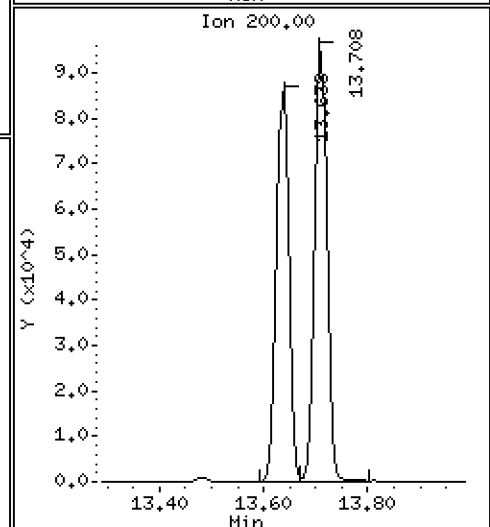
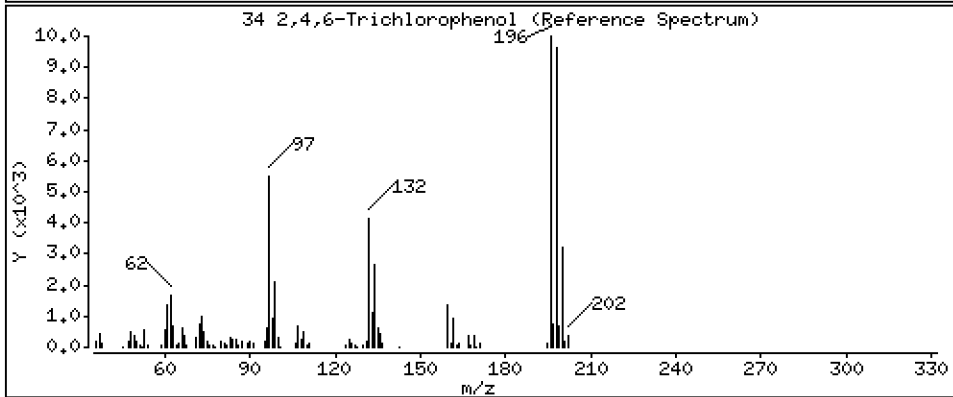
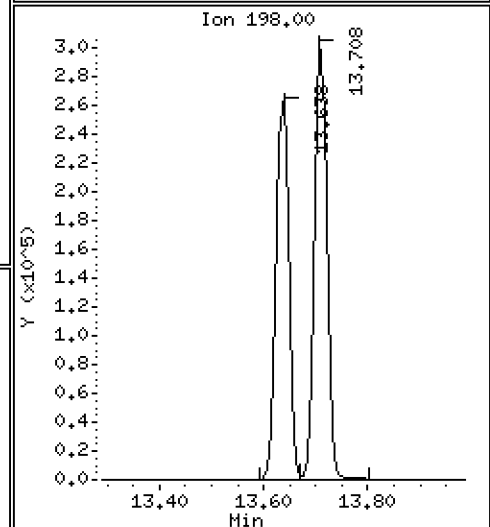
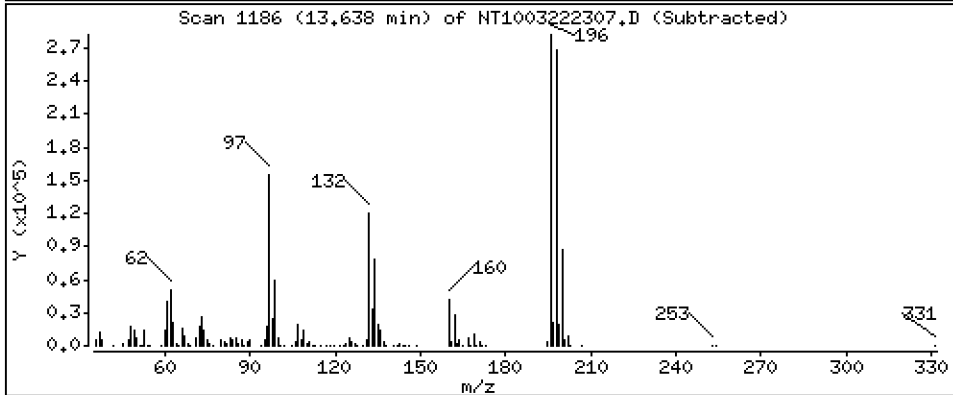
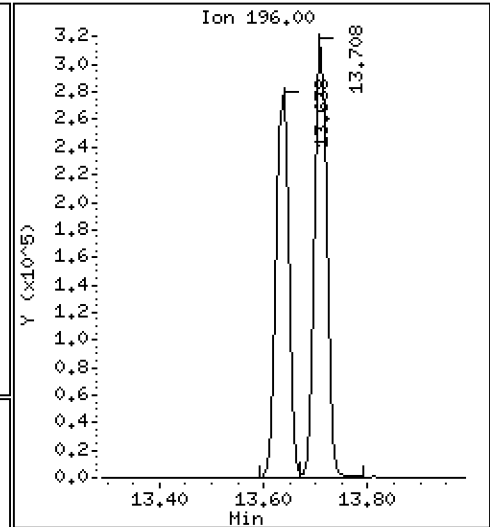
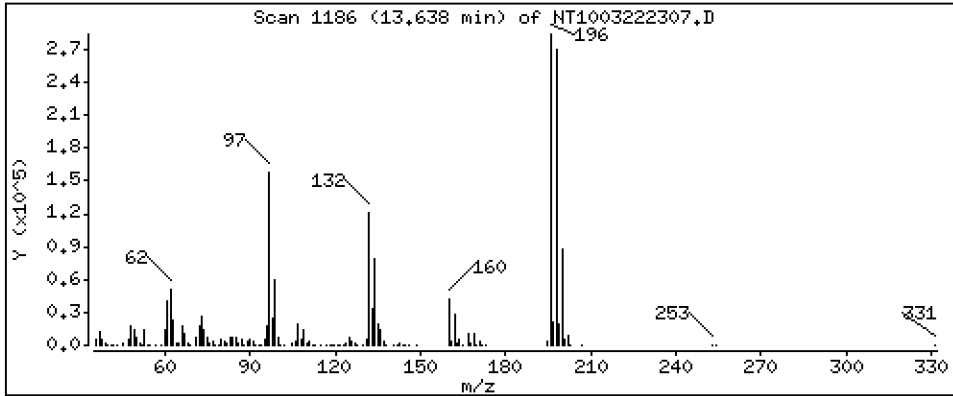
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

34 2,4,6-Trichlorophenol

Concentration: 13,88 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

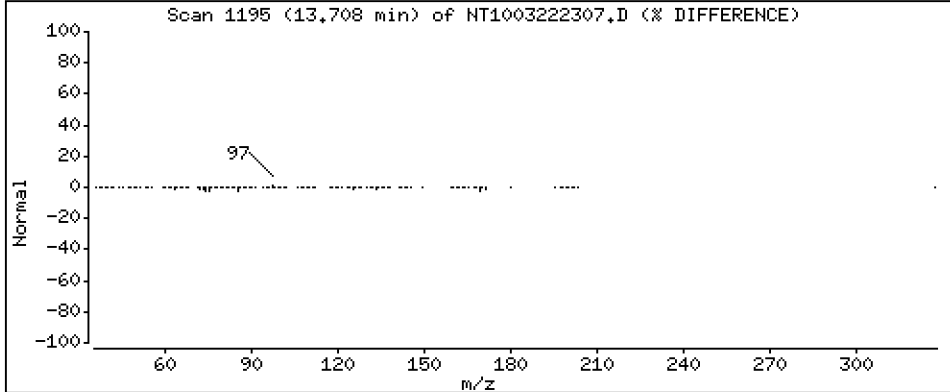
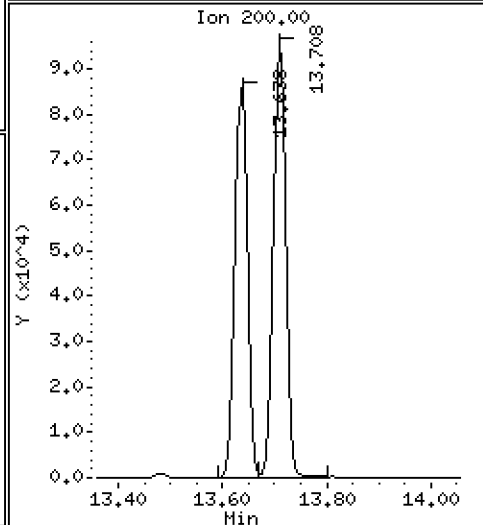
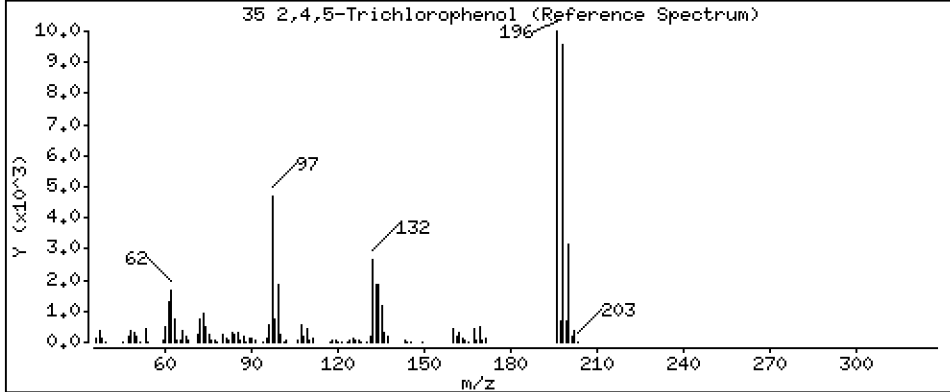
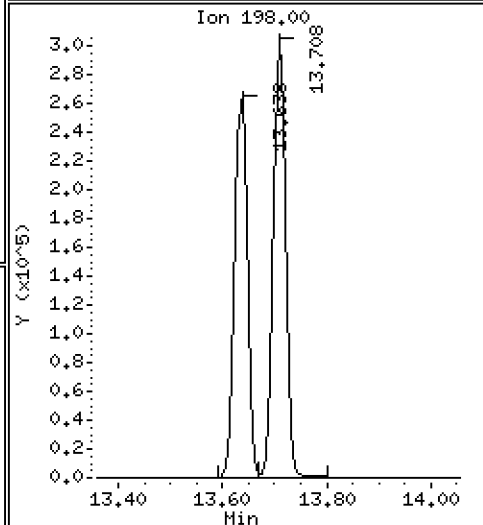
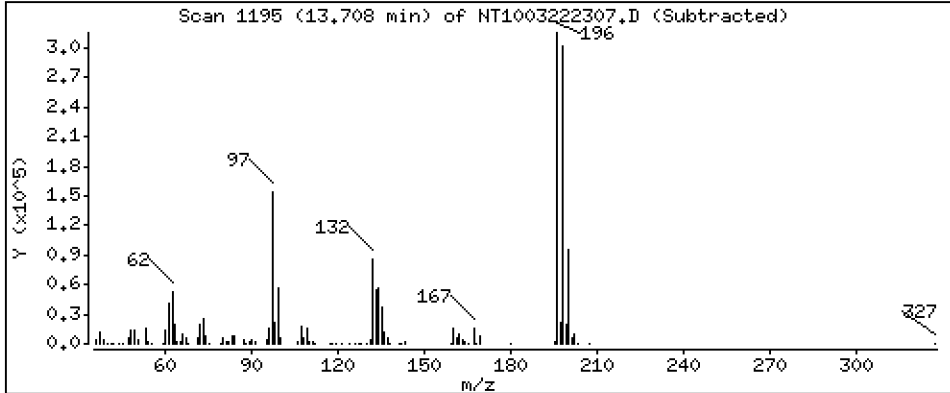
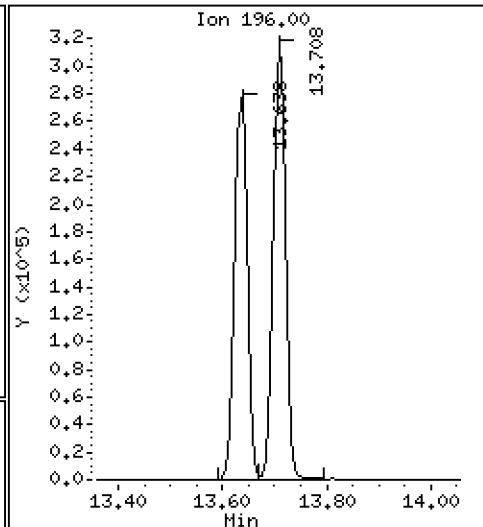
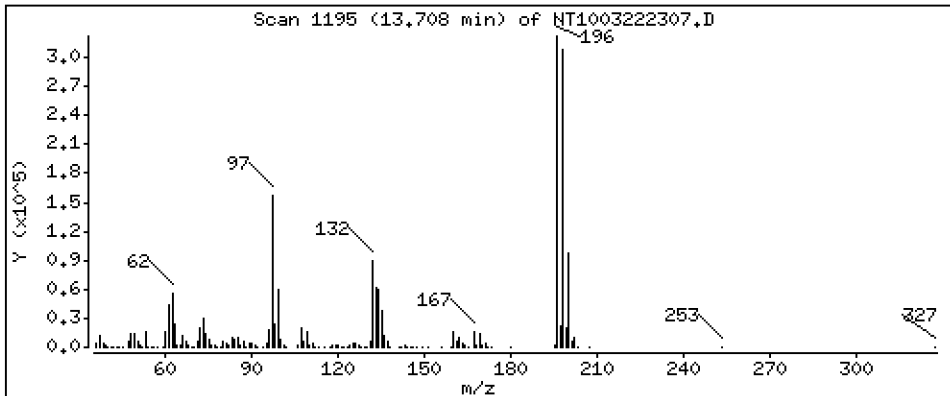
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

35 2,4,5-Trichlorophenol

Concentration: 13,61 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

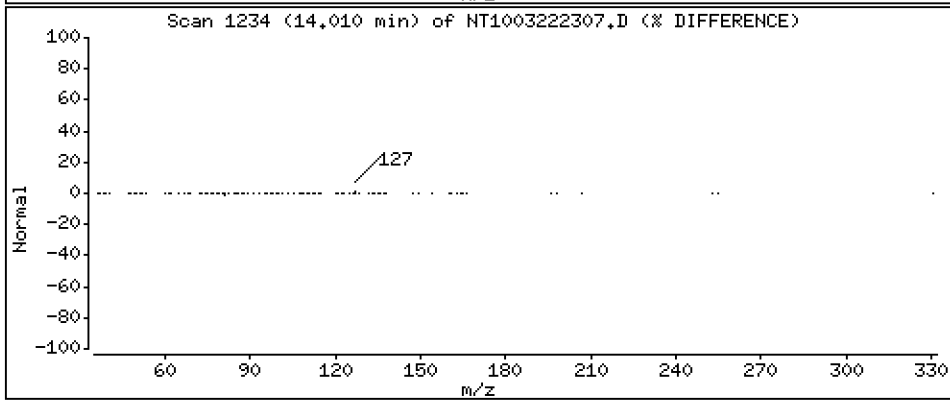
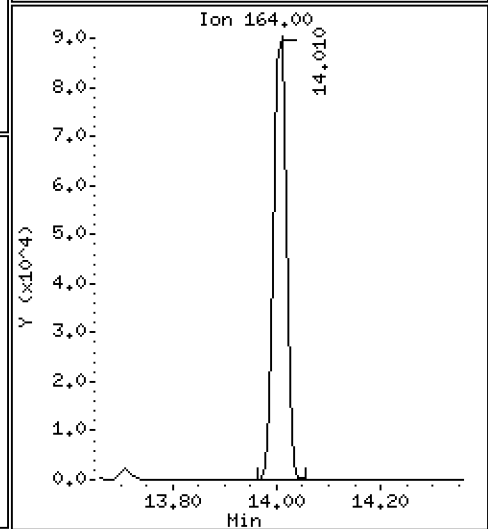
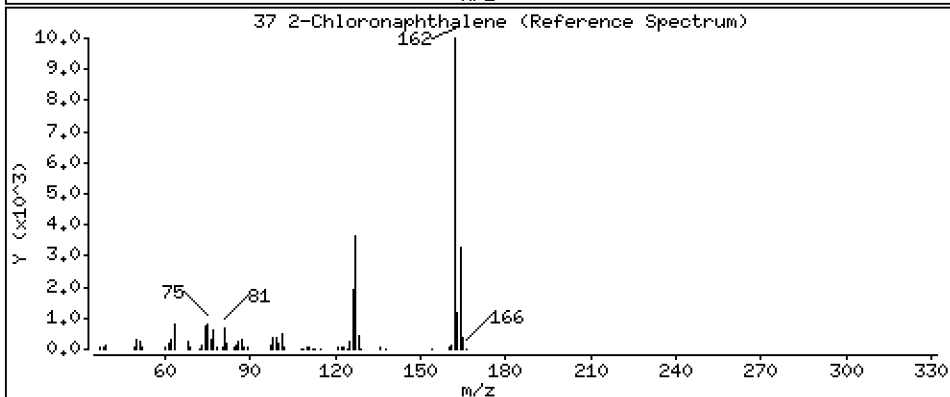
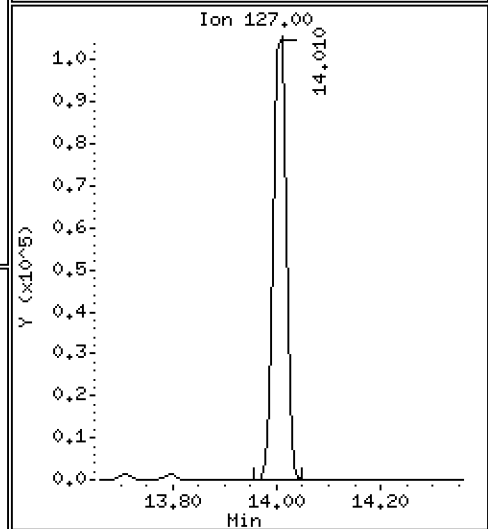
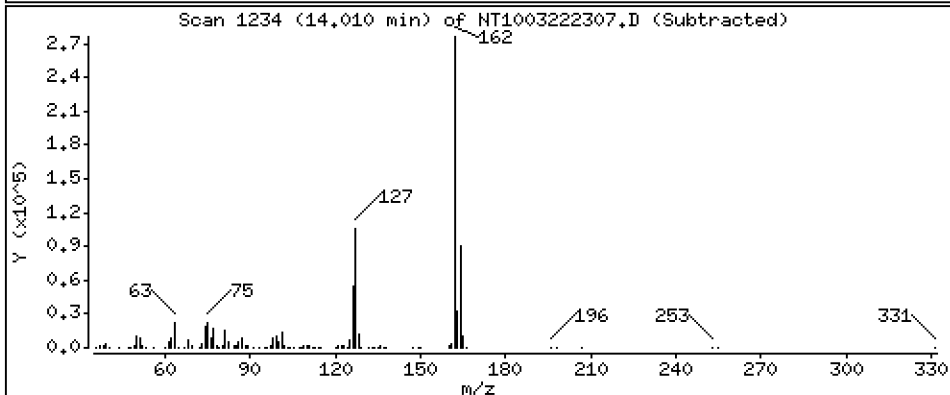
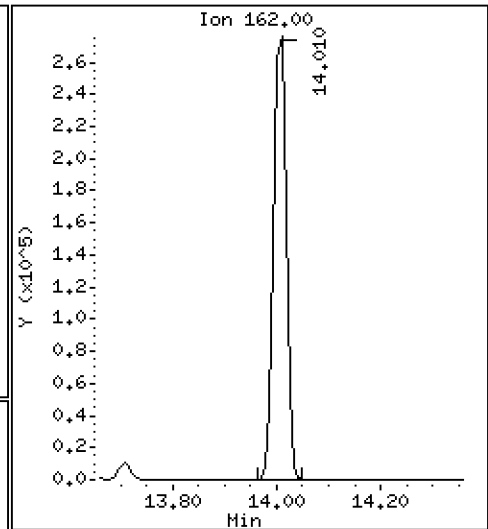
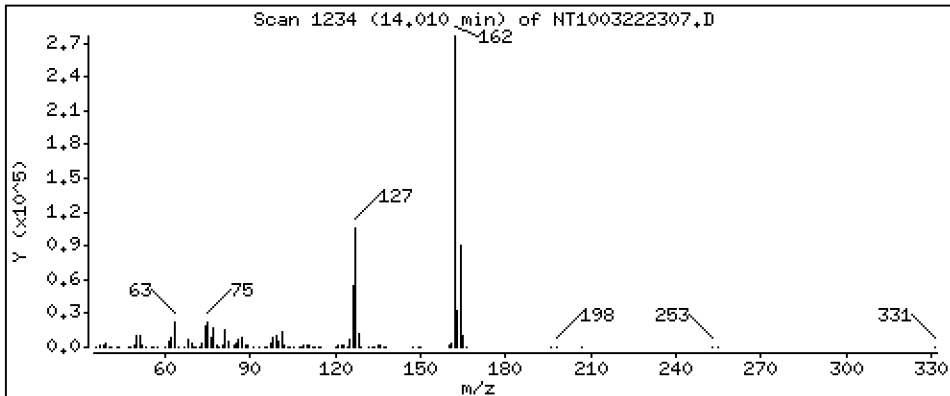
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

37 2-Chloronaphthalene

Concentration: 4,265 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

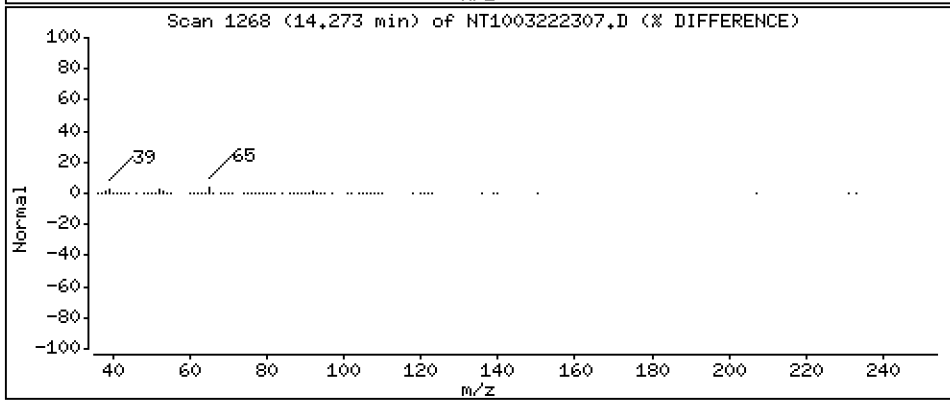
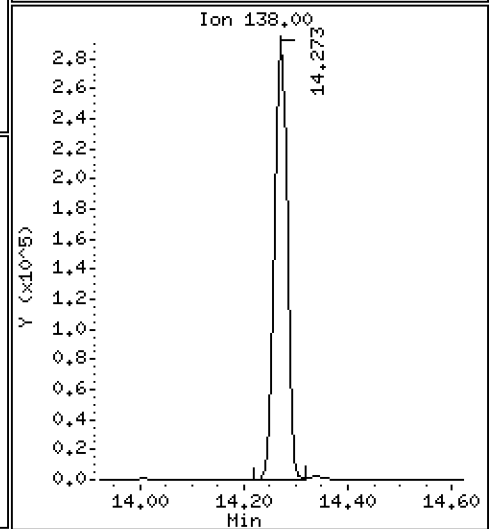
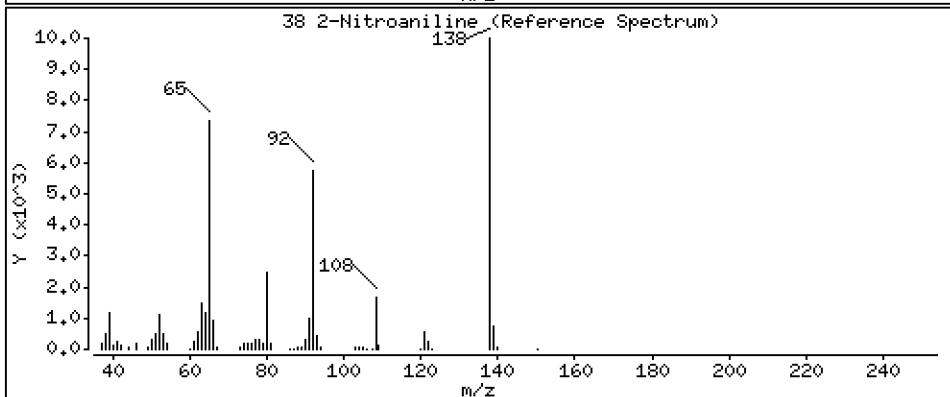
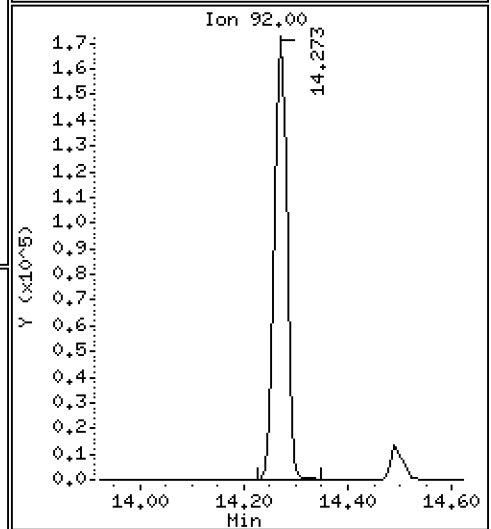
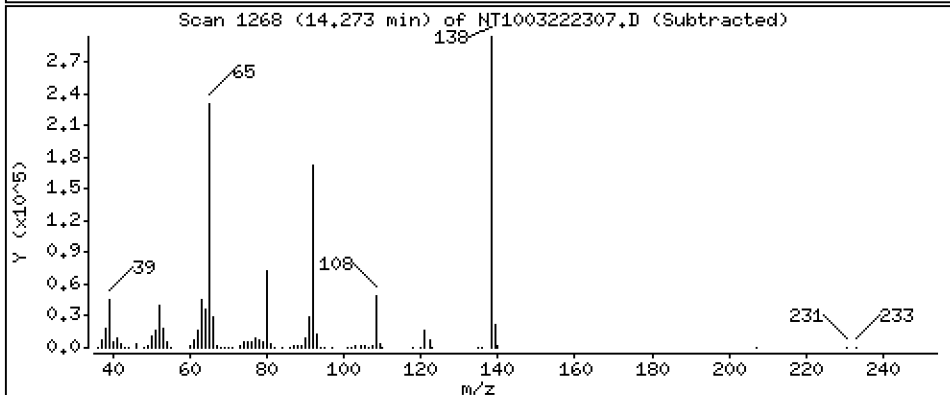
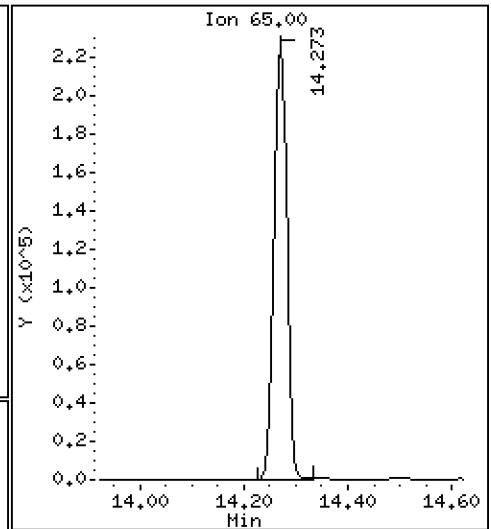
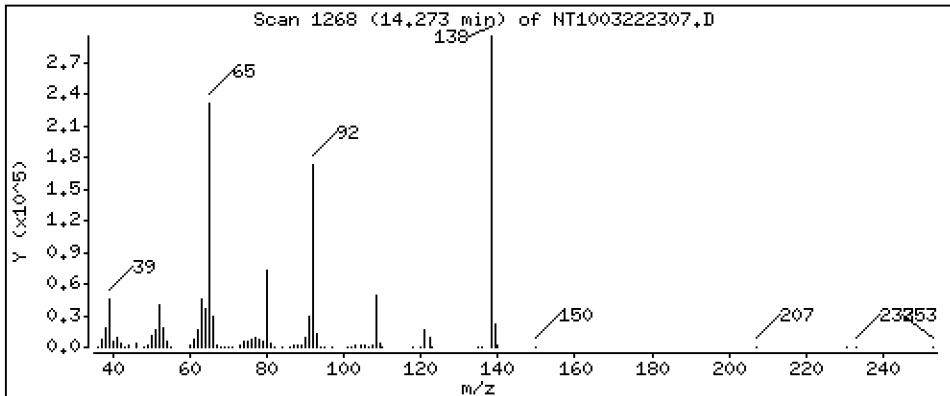
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

38 2-Nitroaniline

Concentration: 12,61 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

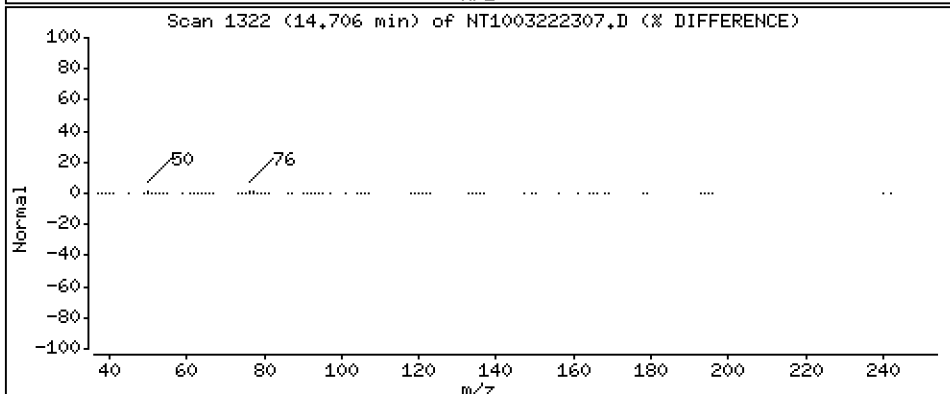
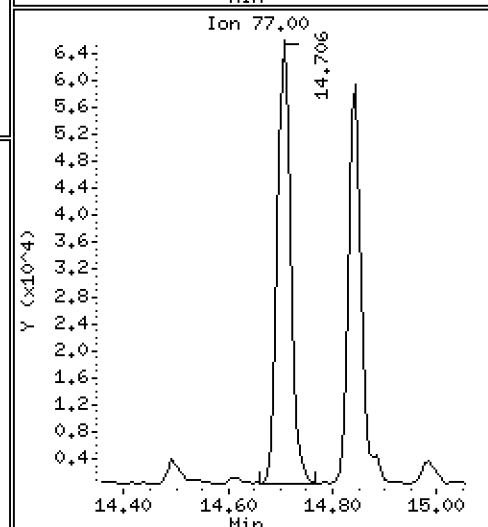
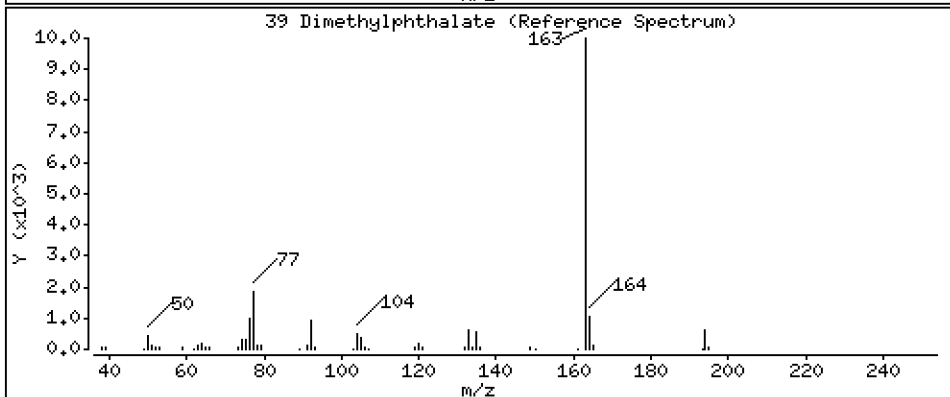
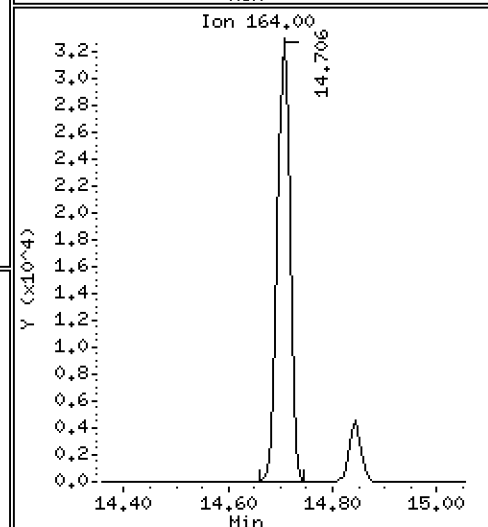
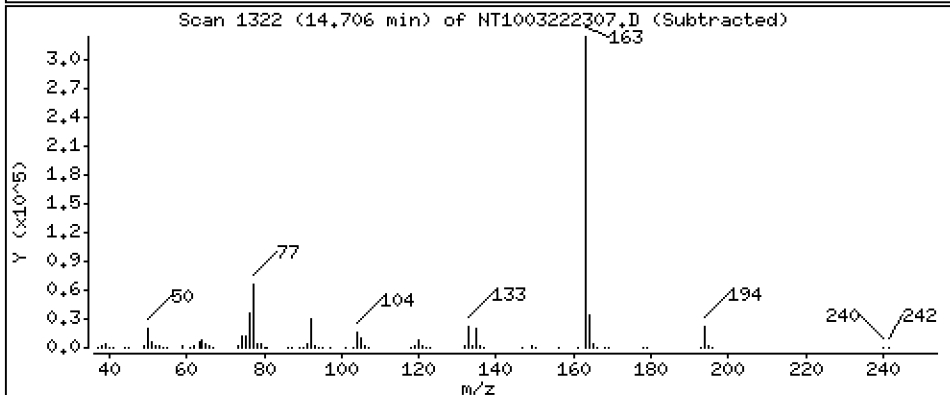
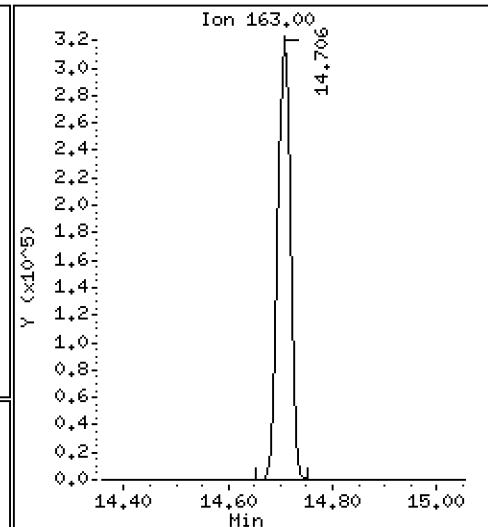
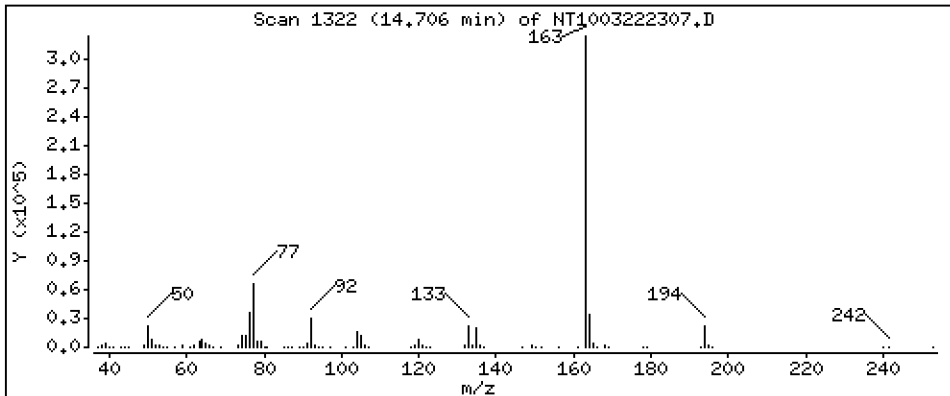
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 4,869 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

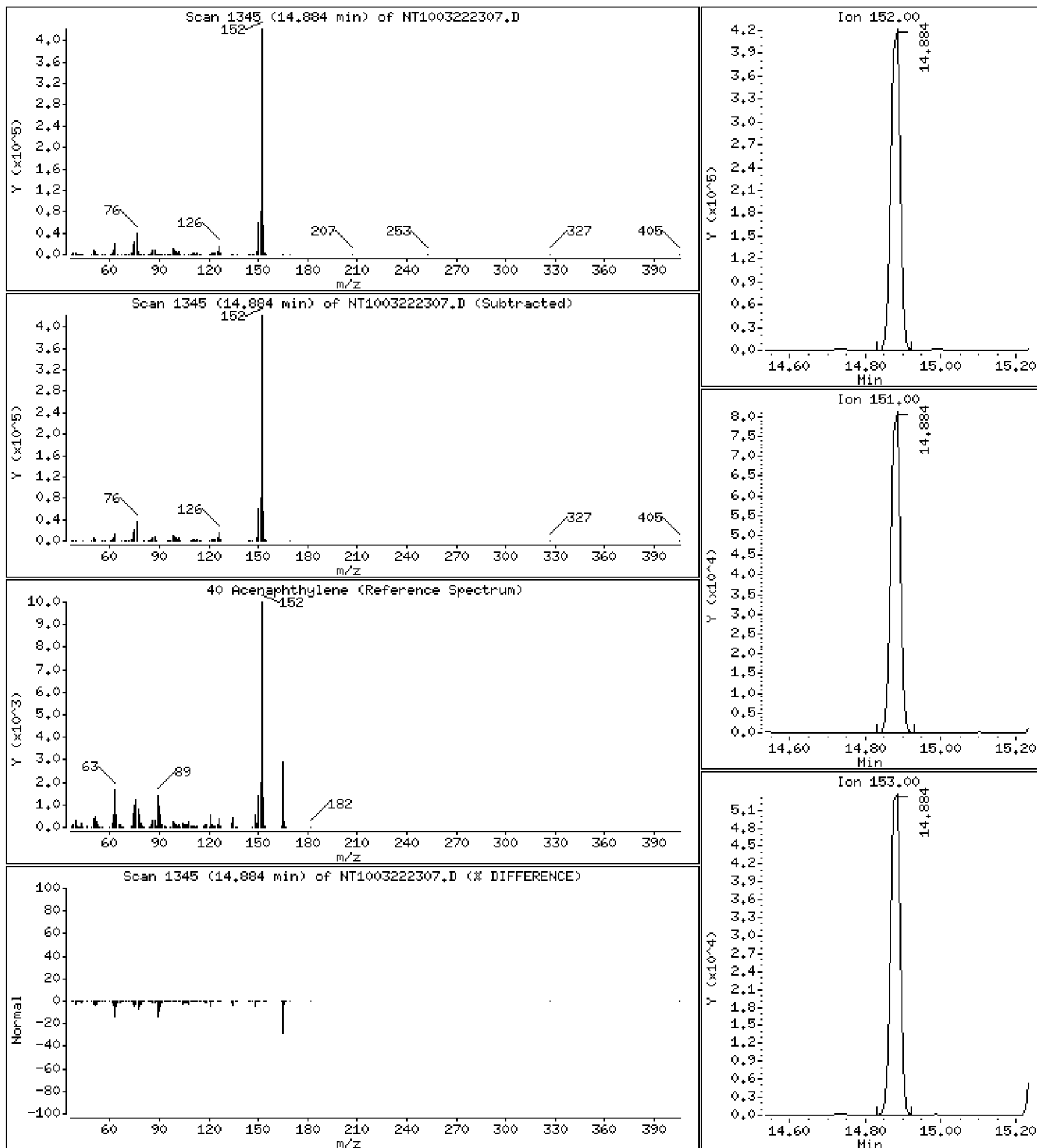
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 4,149 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

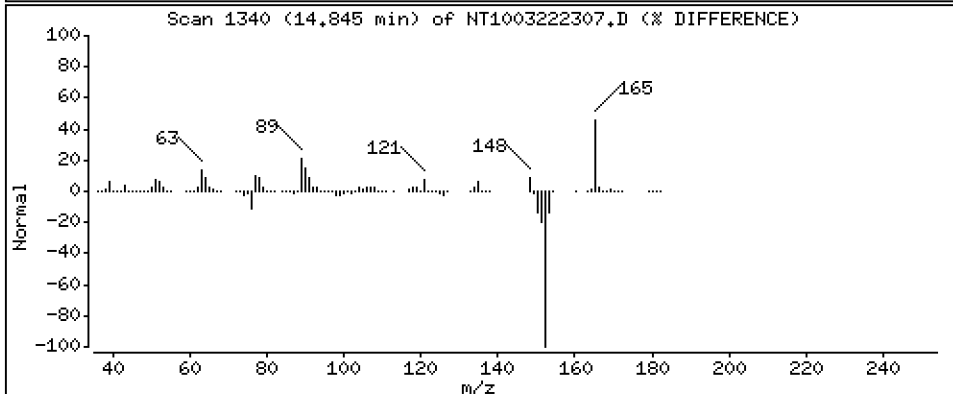
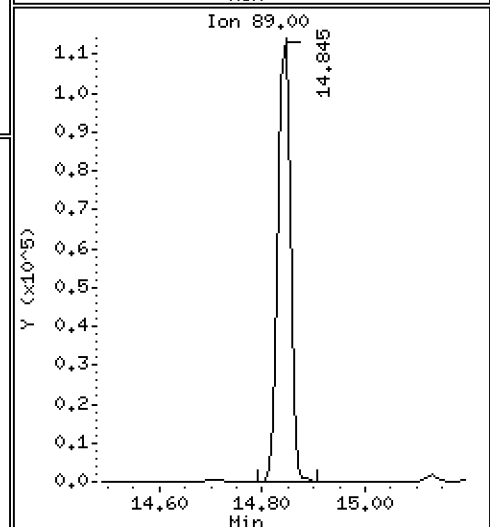
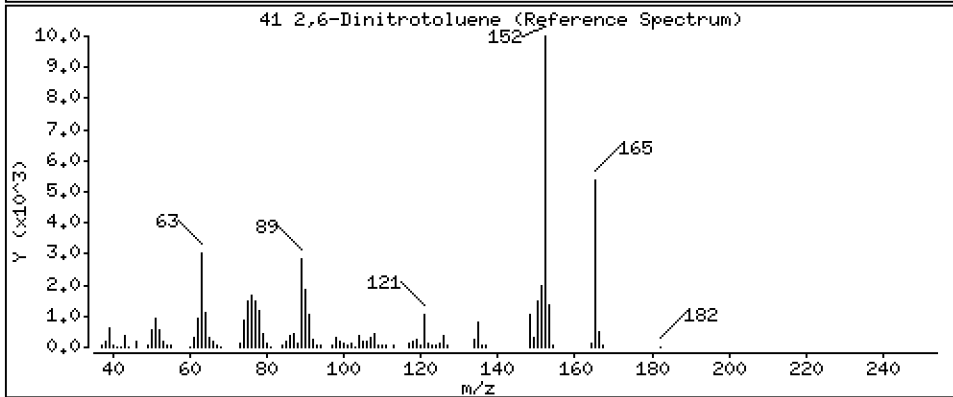
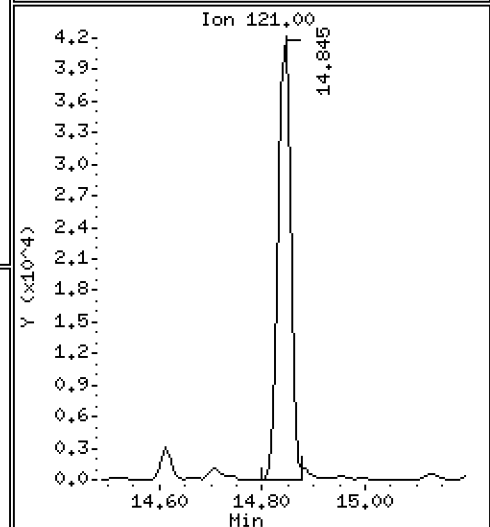
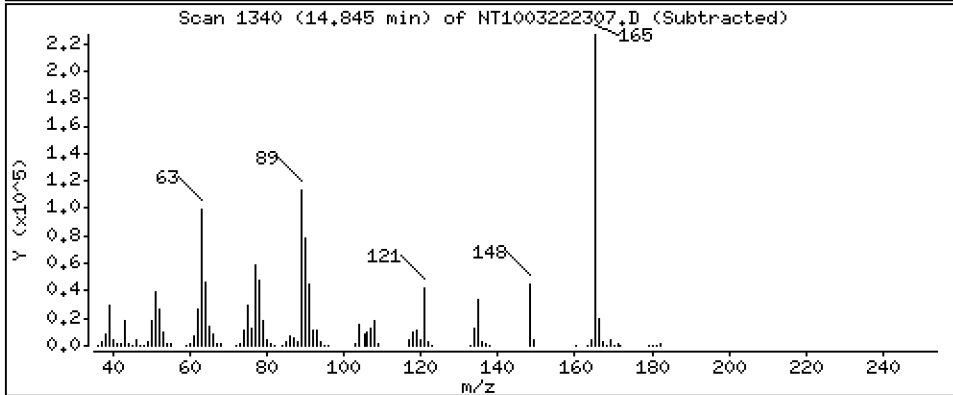
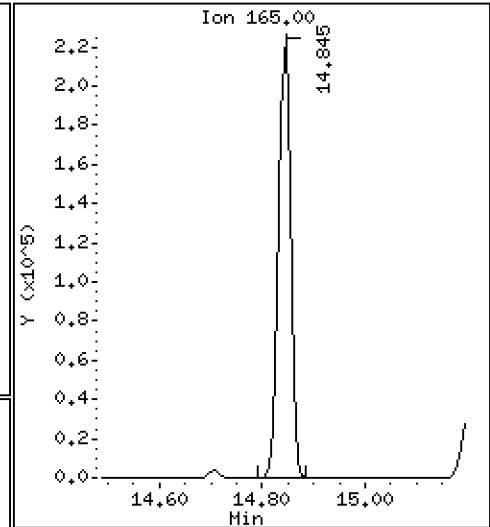
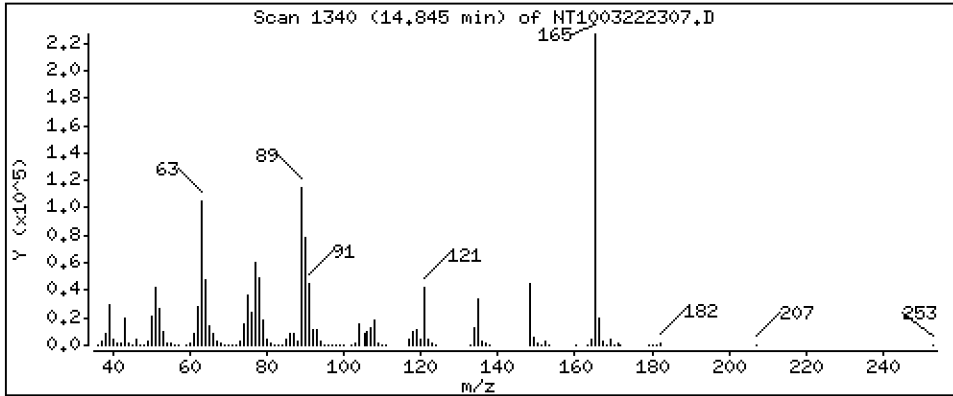
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

41 2,6-Dinitrotoluene

Concentration: 14,98 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

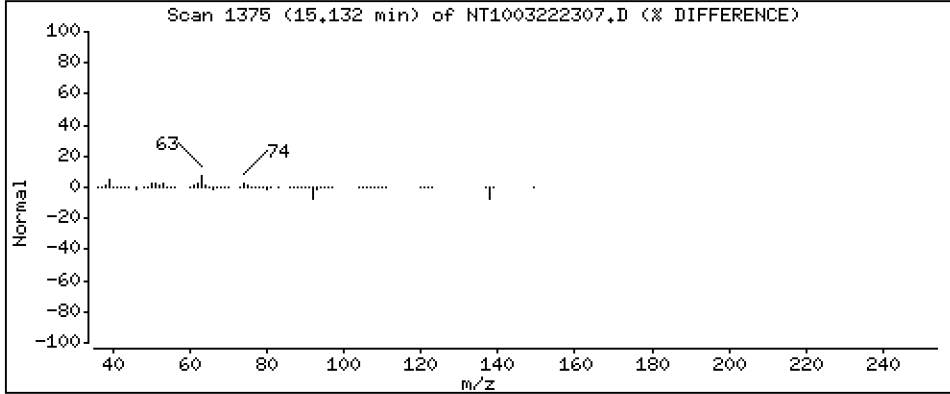
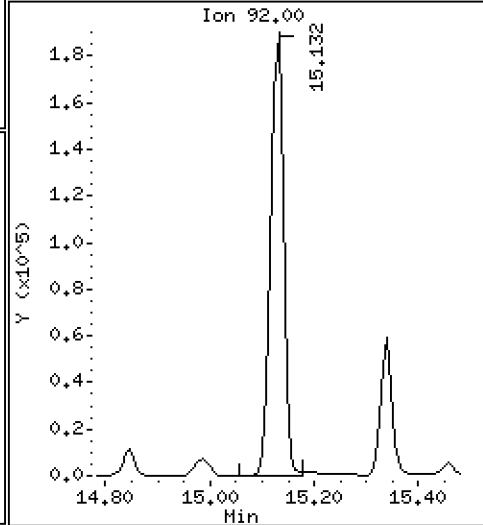
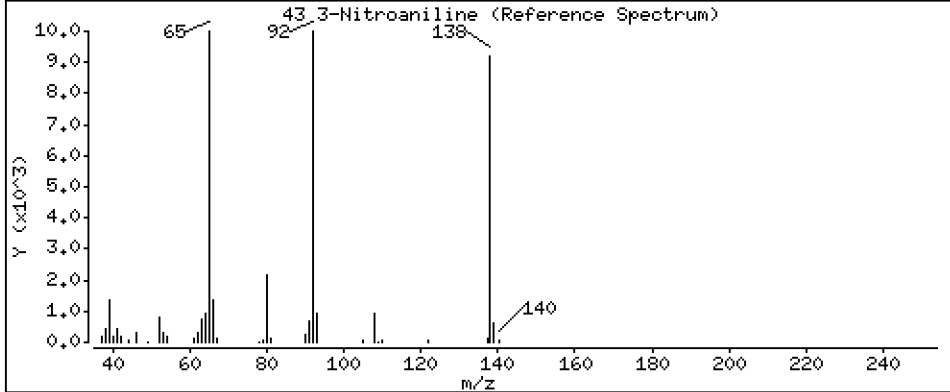
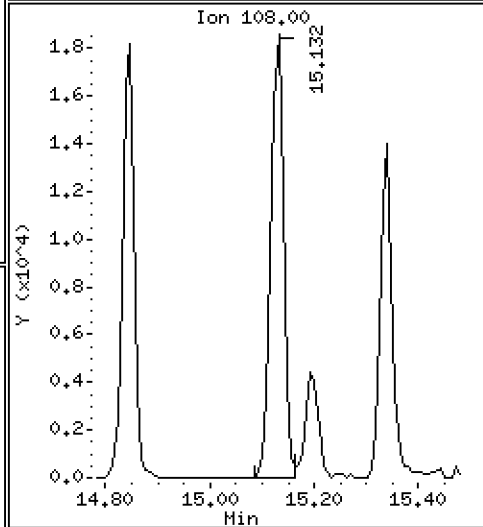
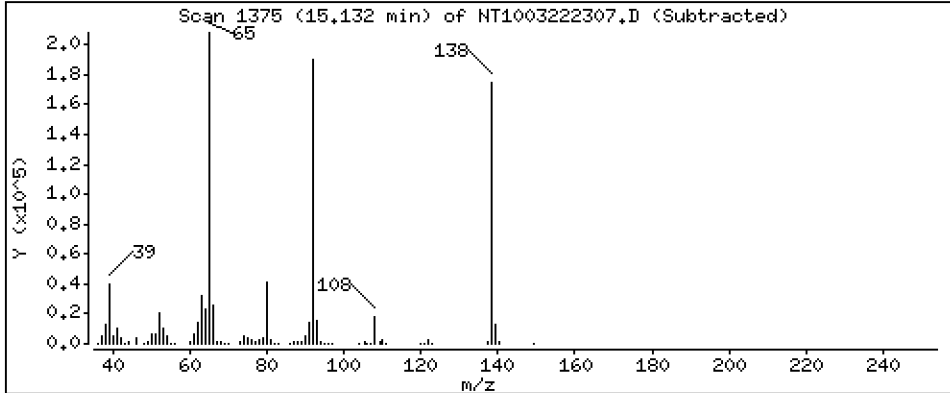
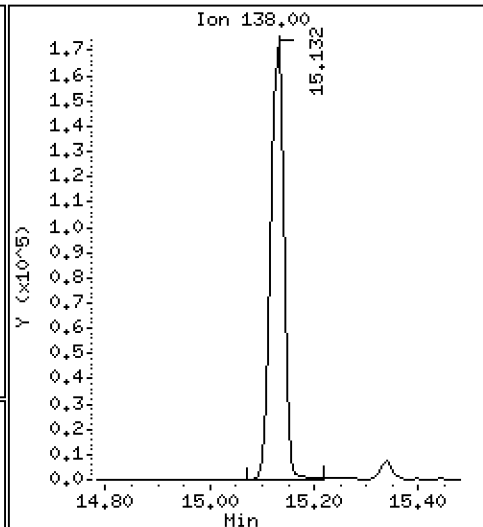
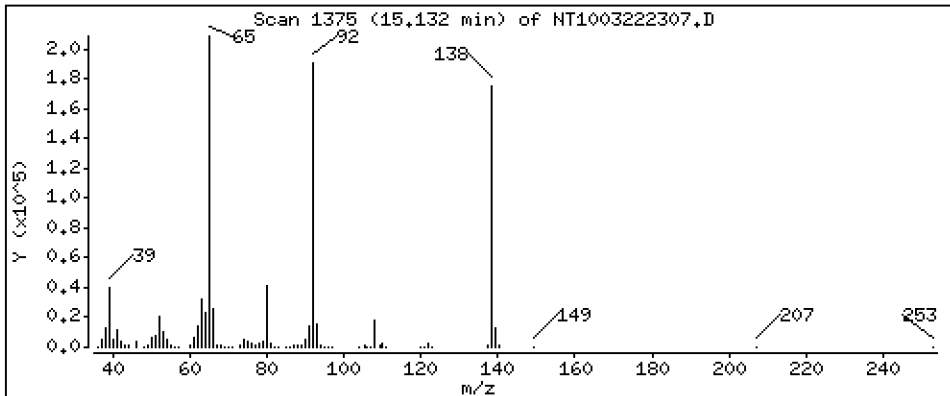
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

43 3-Nitroaniline

Concentration: 11,19 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

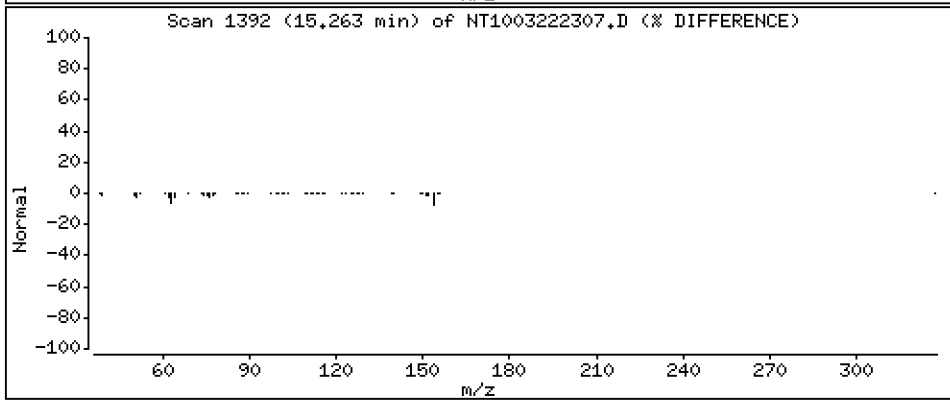
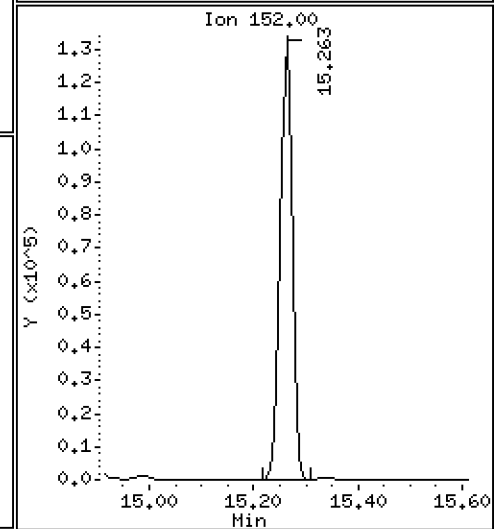
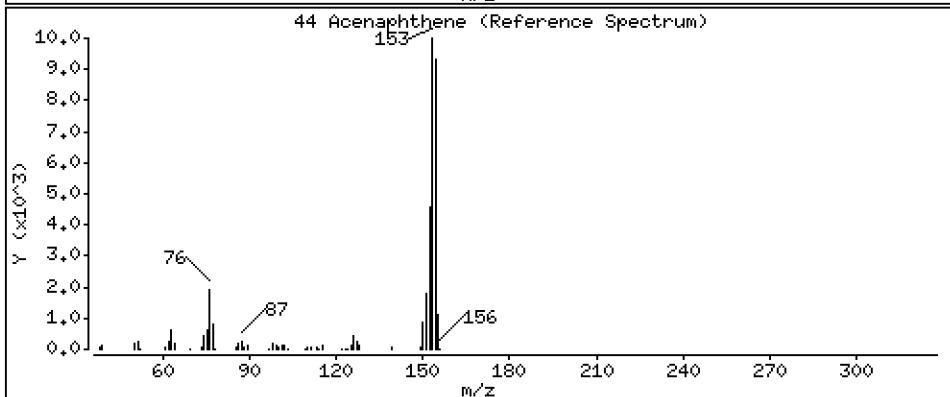
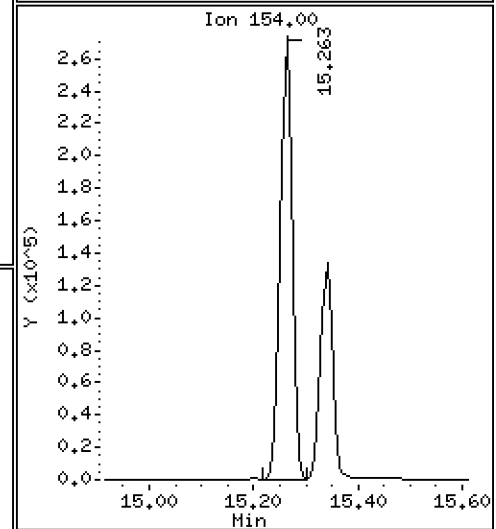
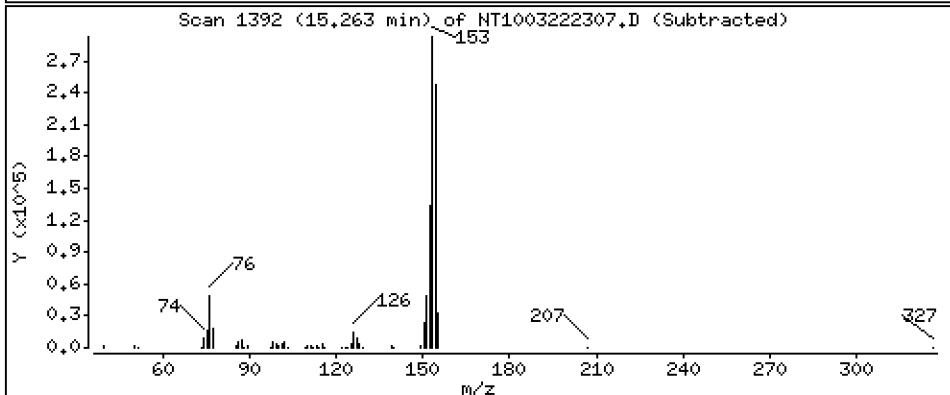
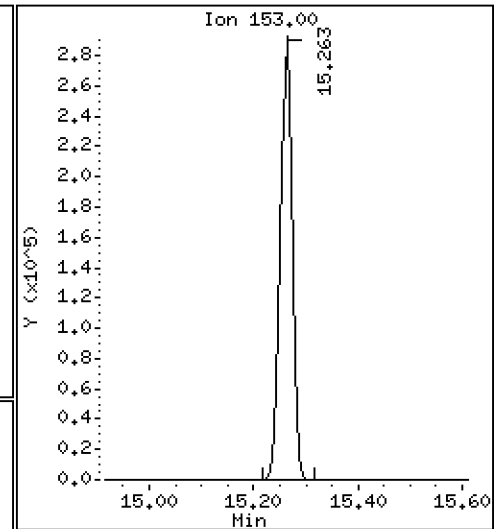
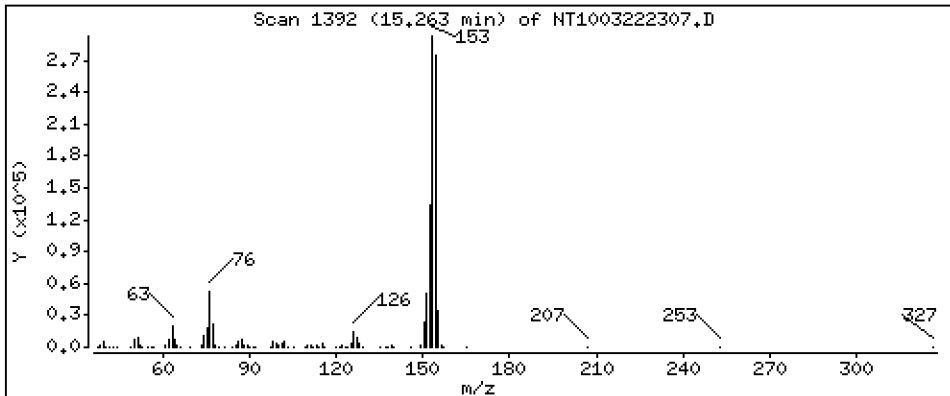
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 4,313 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

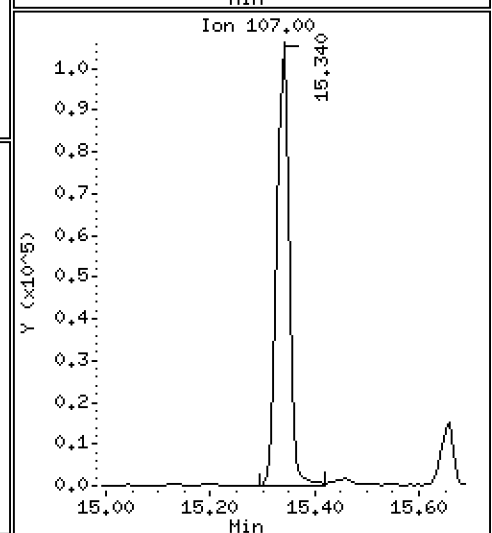
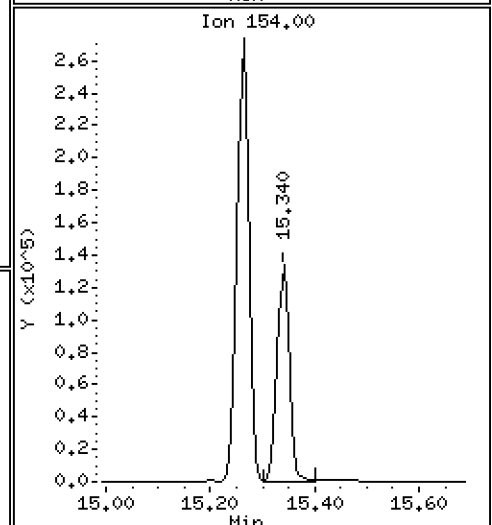
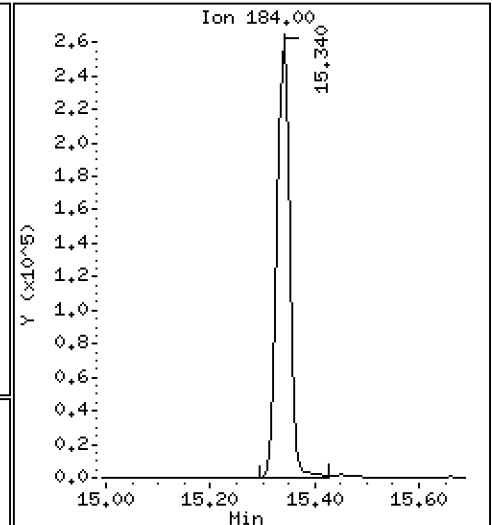
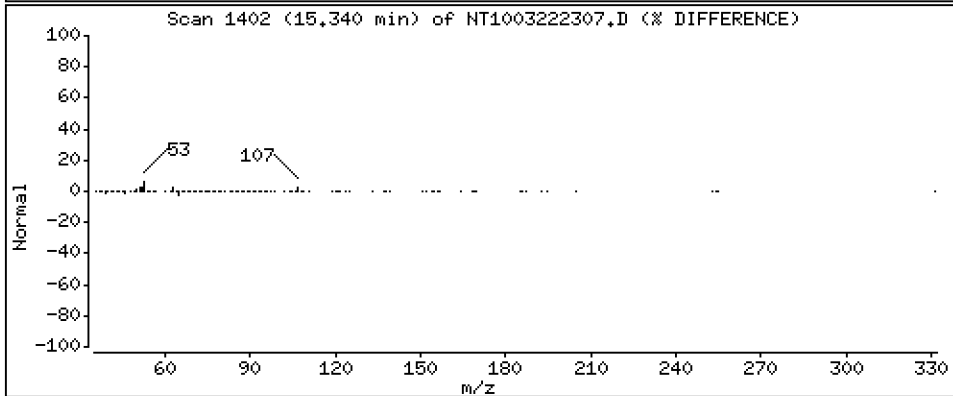
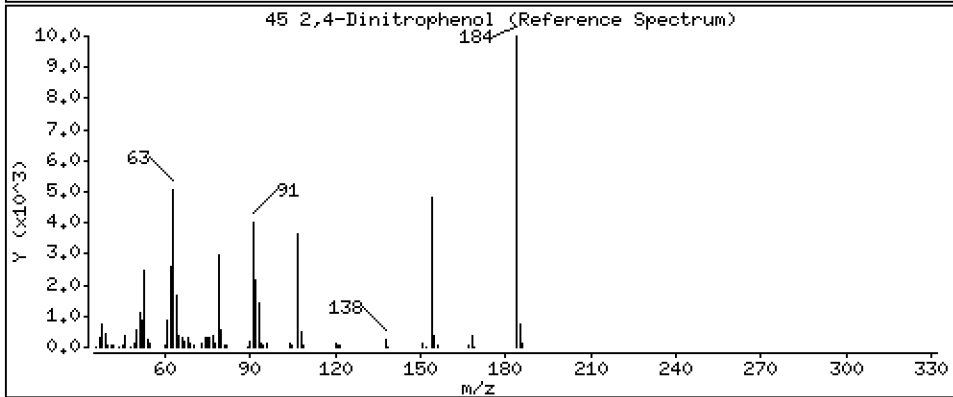
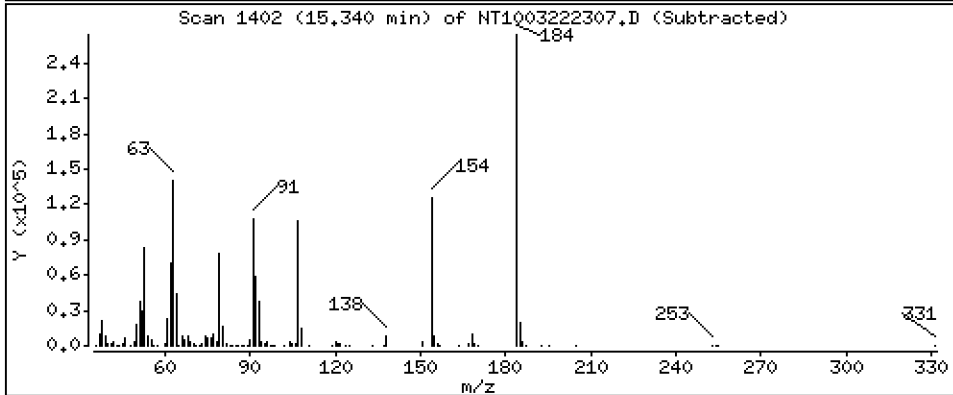
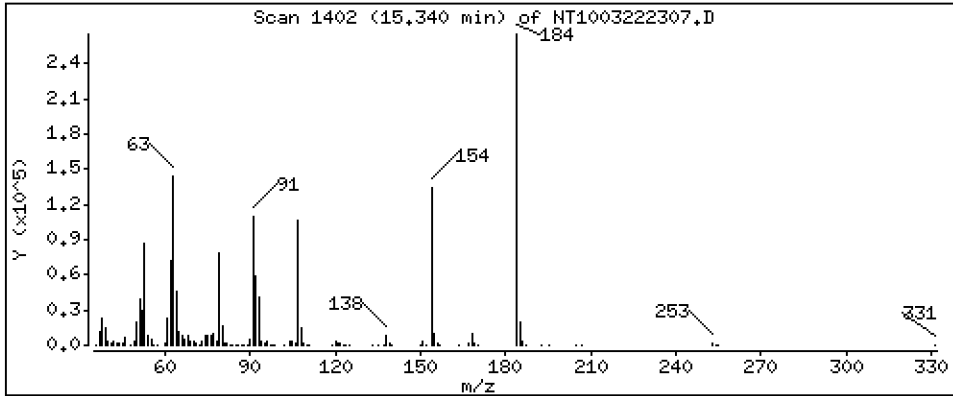
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

45 2,4-Dinitrophenol

Concentration: 28,79 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

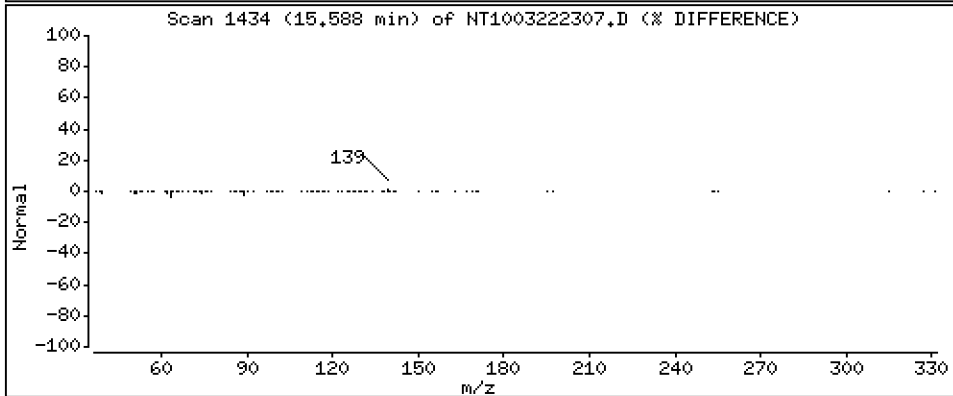
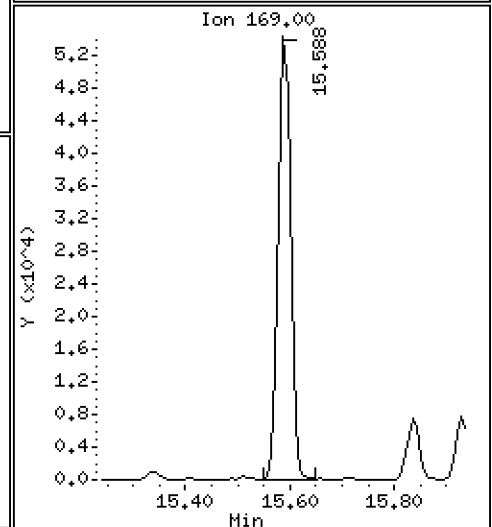
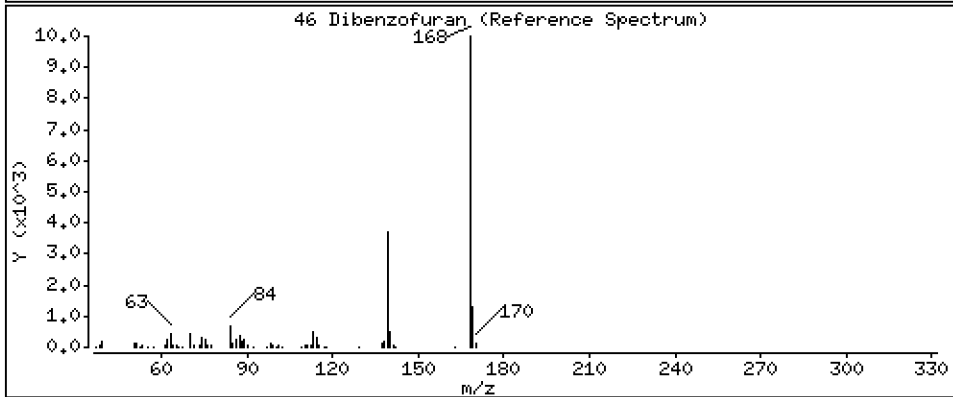
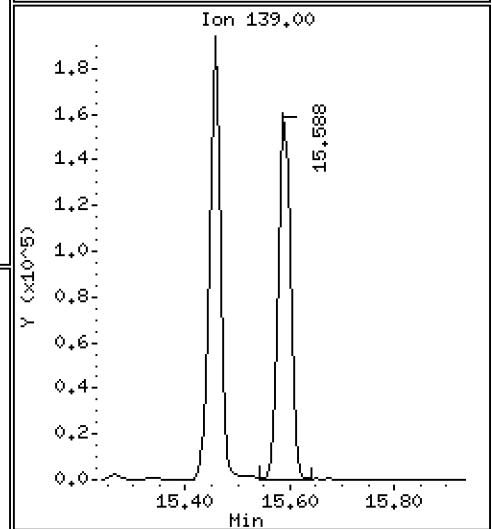
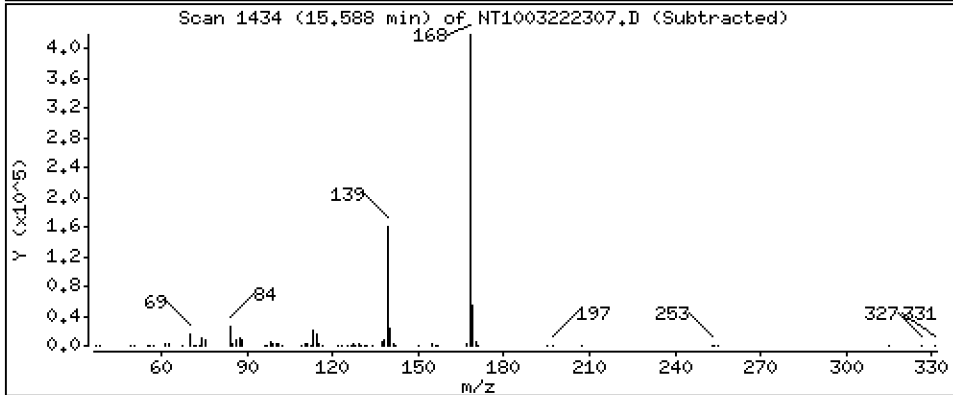
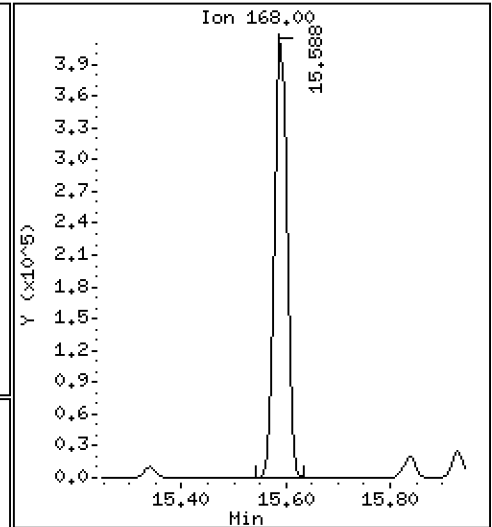
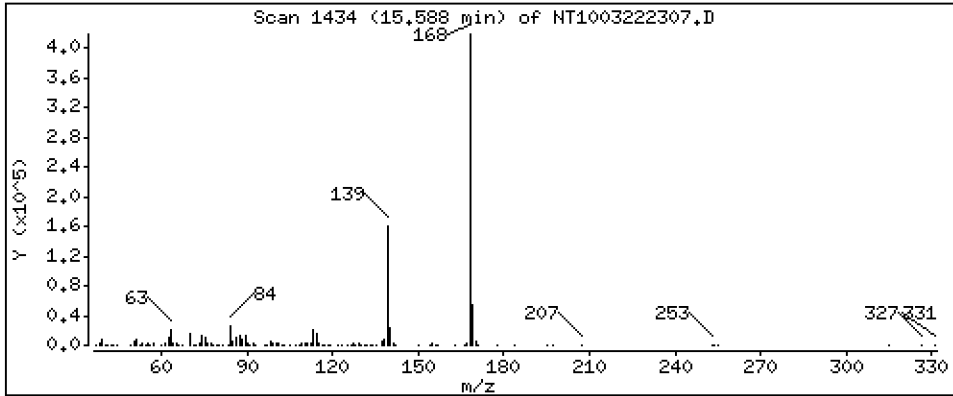
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 4,368 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

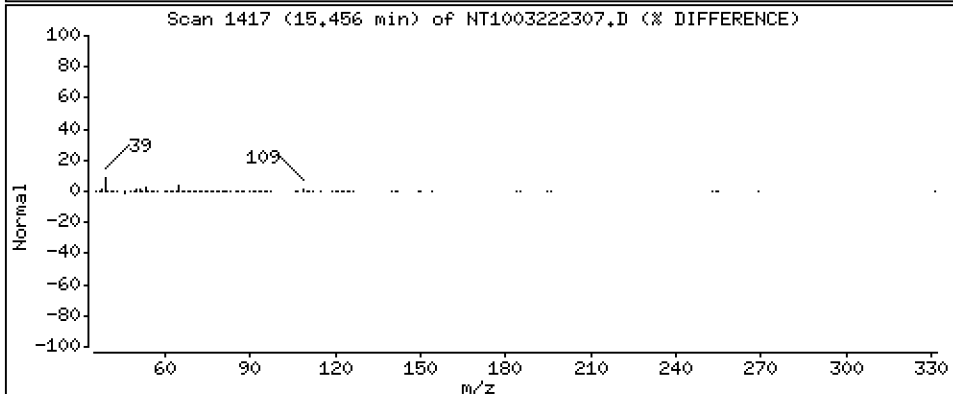
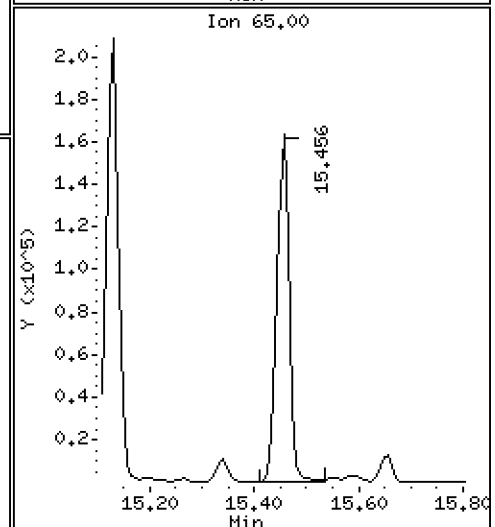
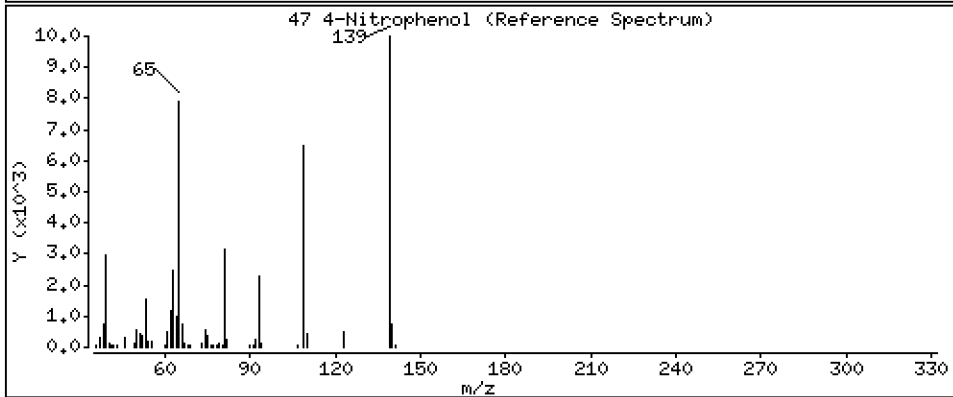
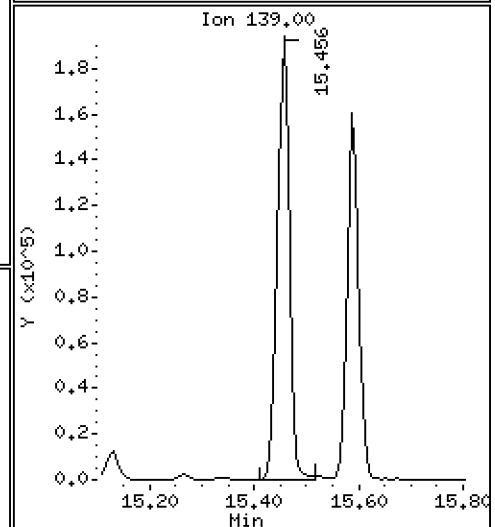
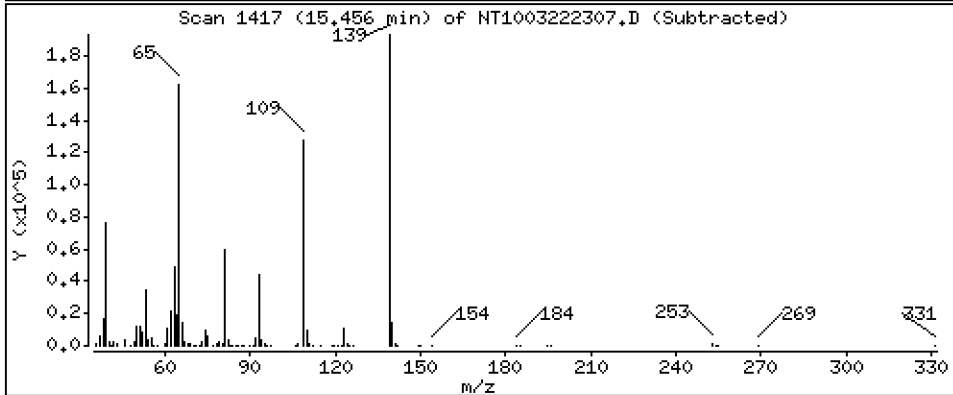
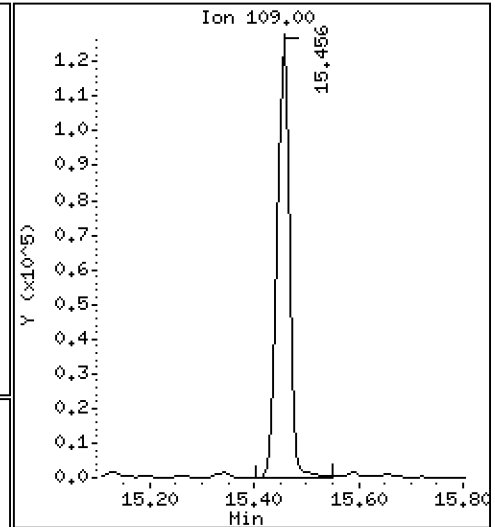
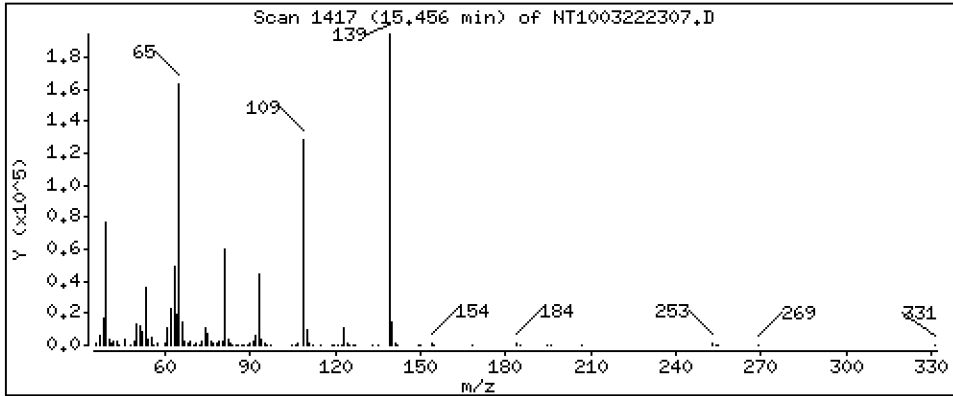
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

47 4-Nitrophenol

Concentration: 12,14 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

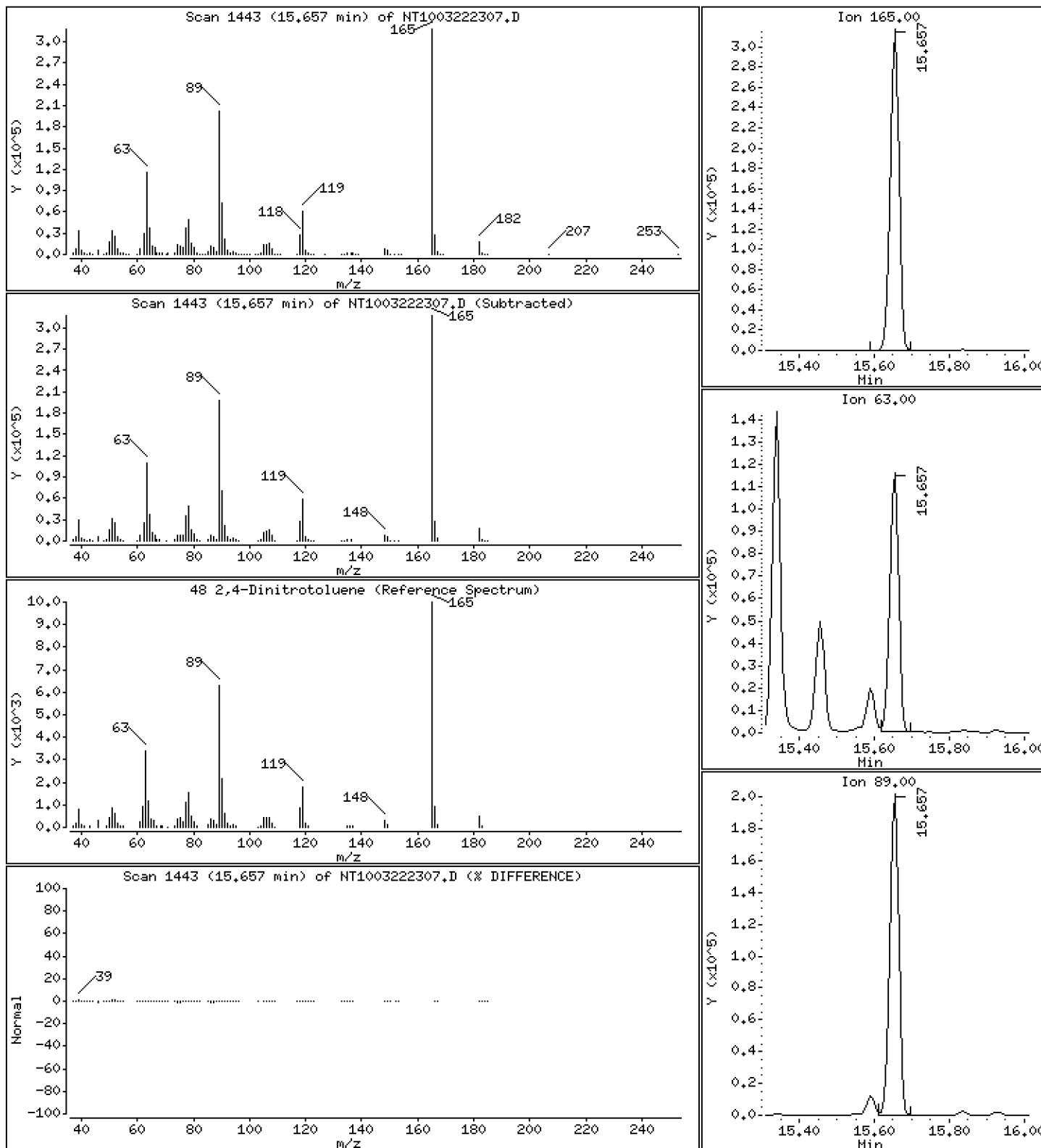
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

48 2,4-Dinitrotoluene

Concentration: 14,19 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

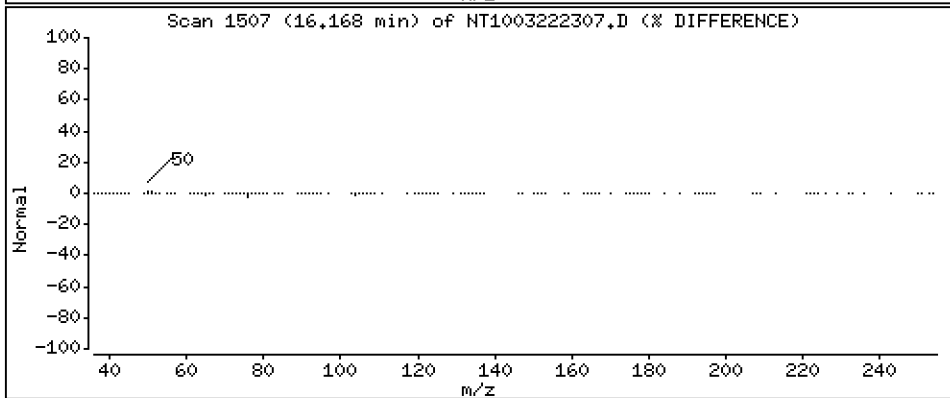
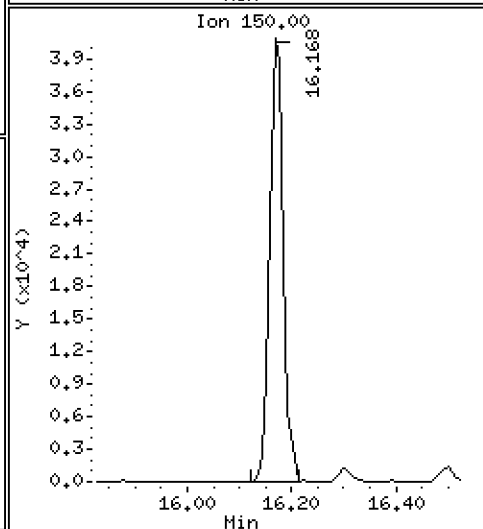
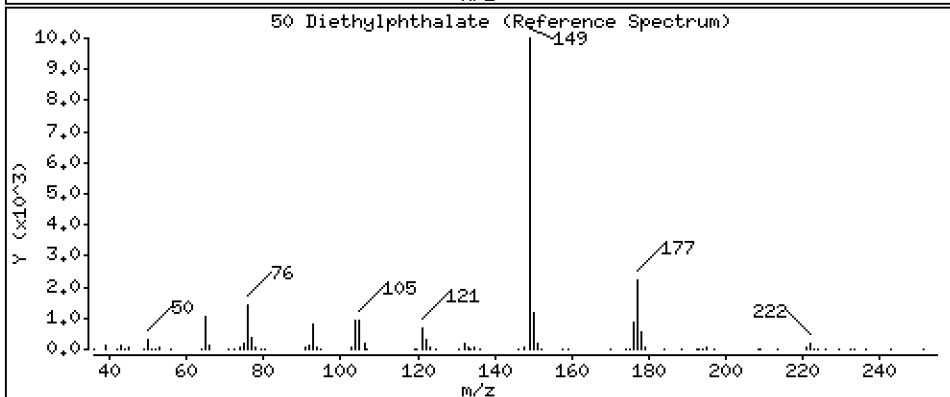
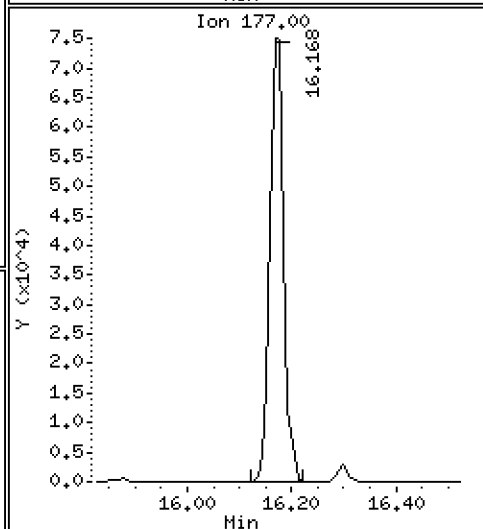
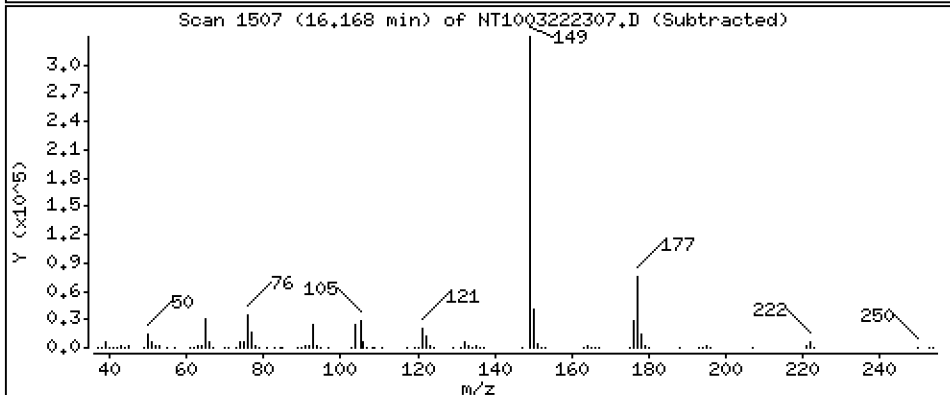
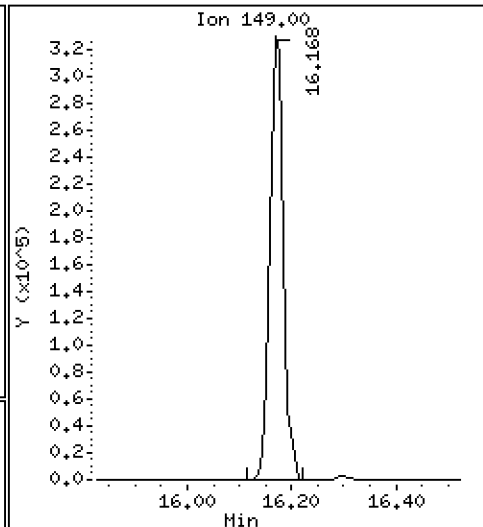
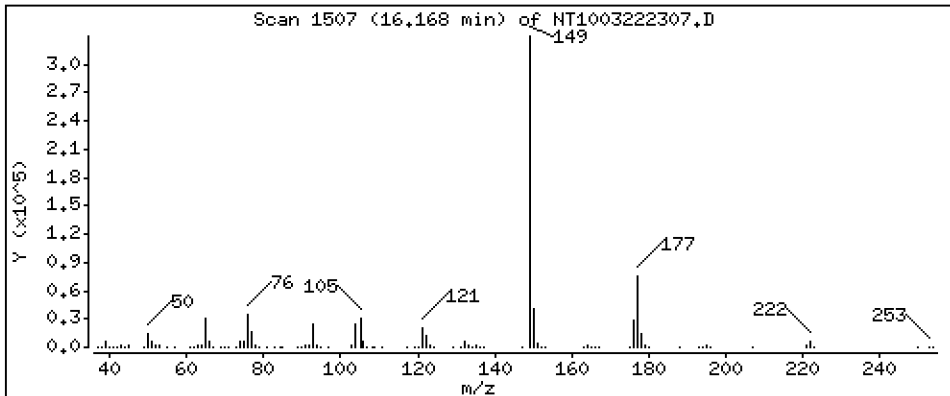
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 6,000 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

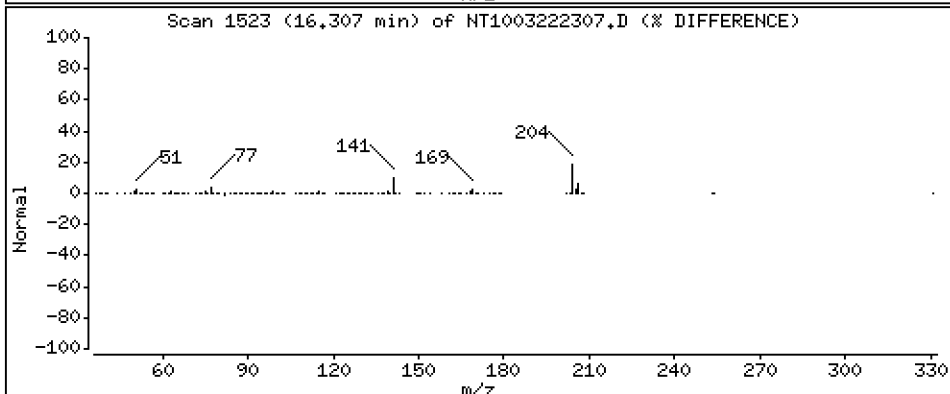
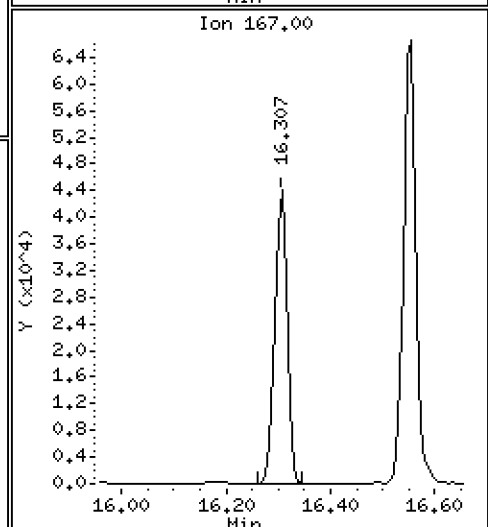
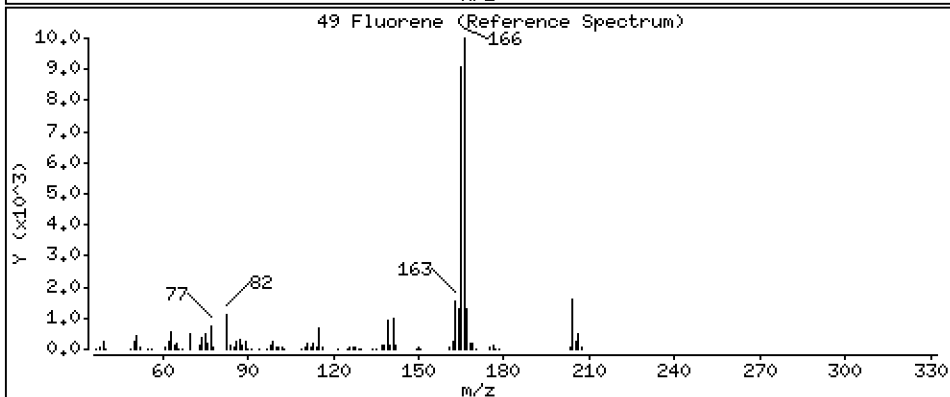
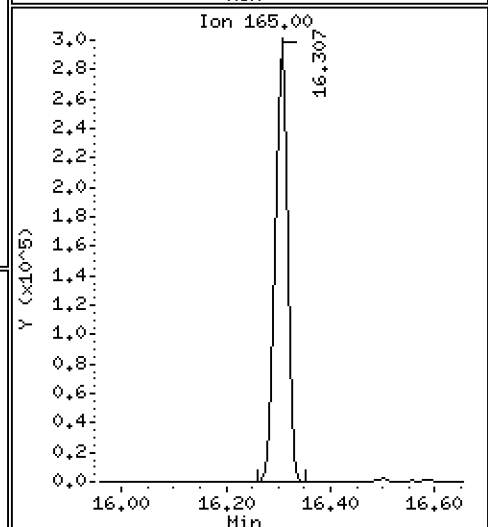
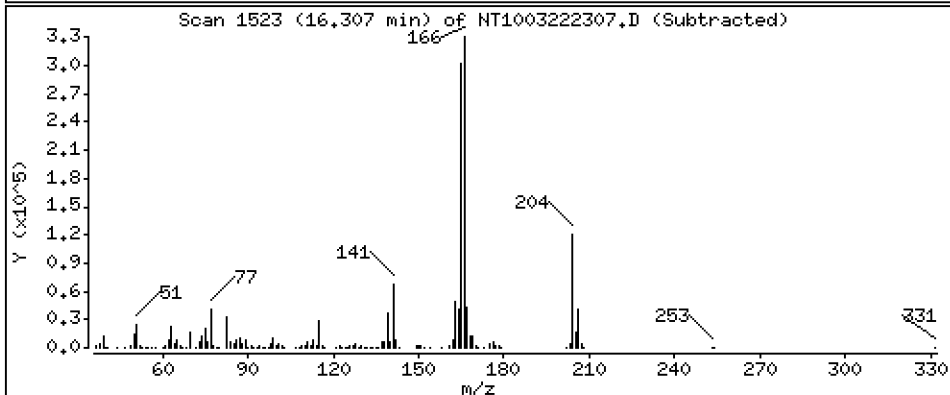
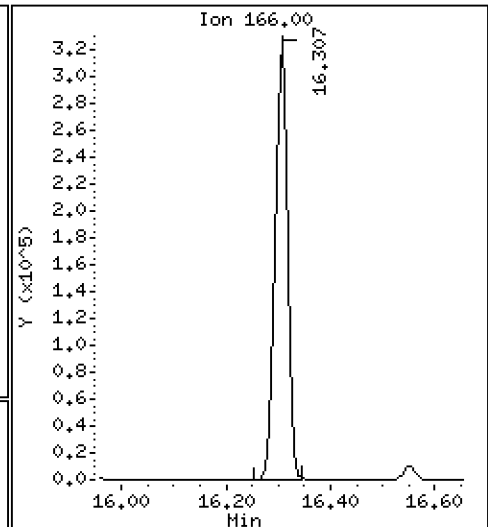
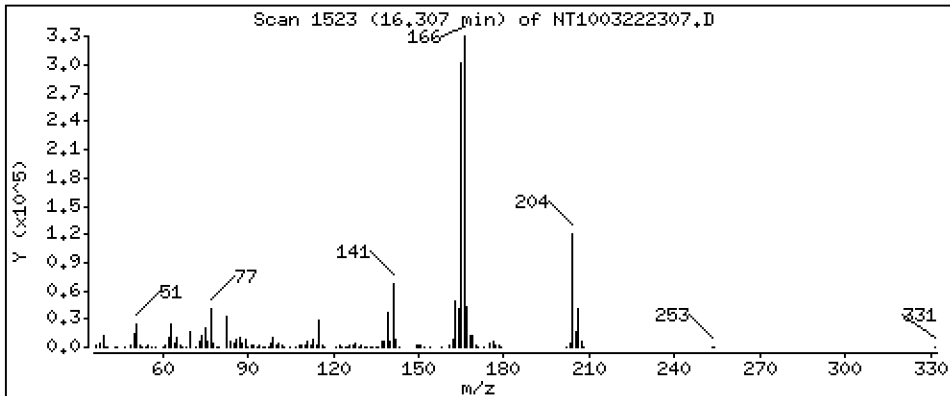
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 4,468 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

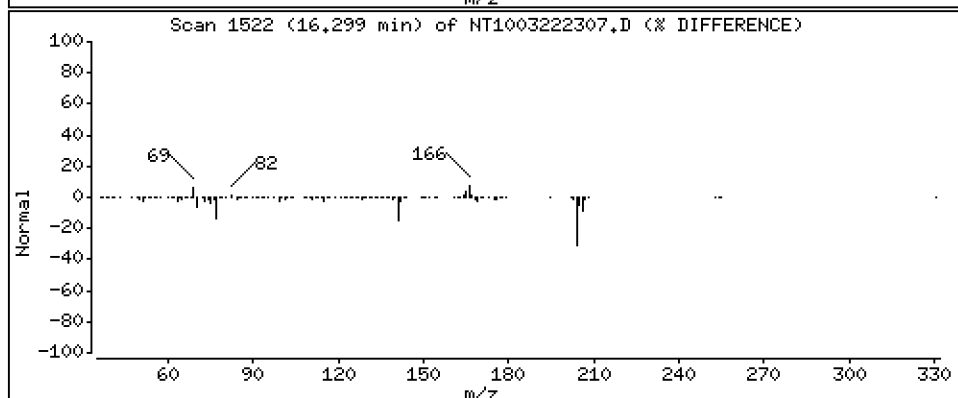
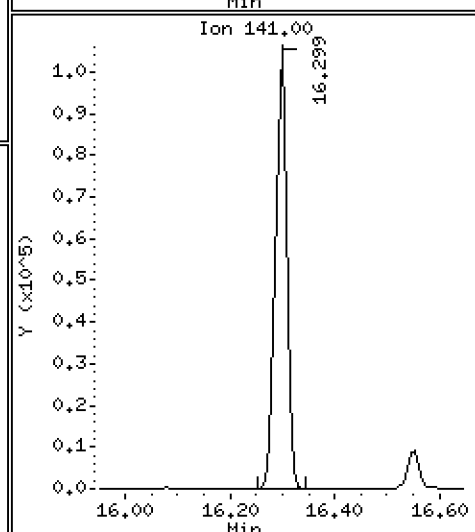
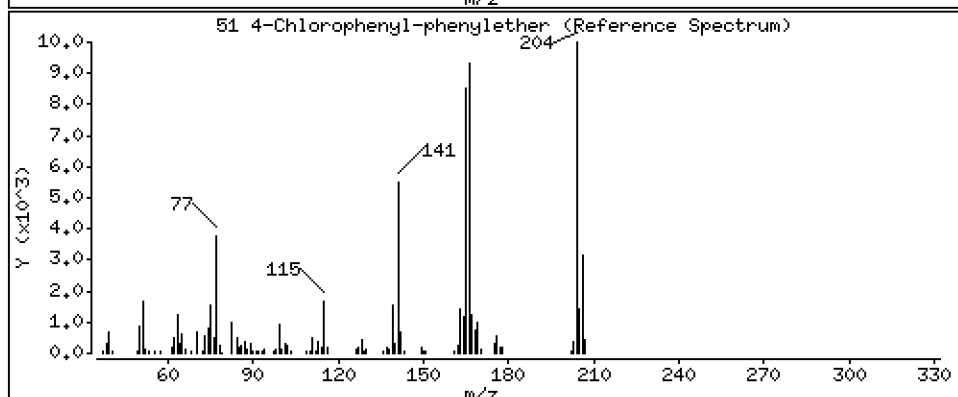
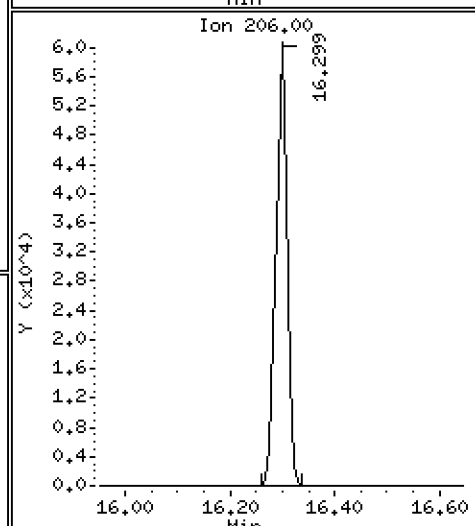
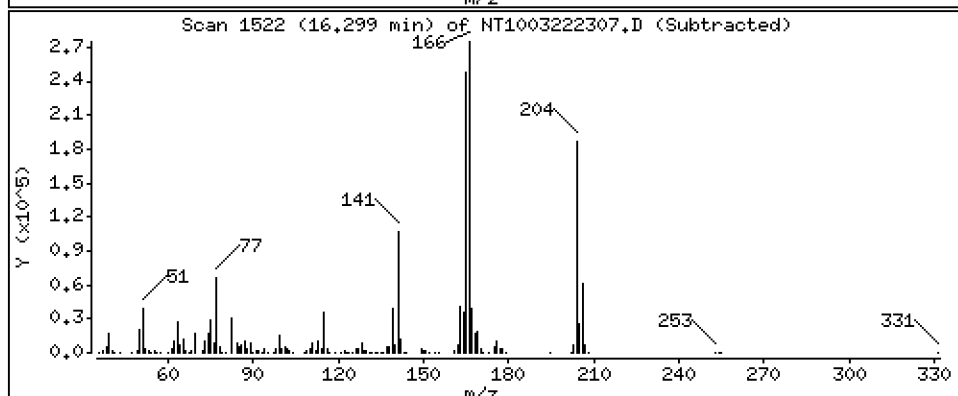
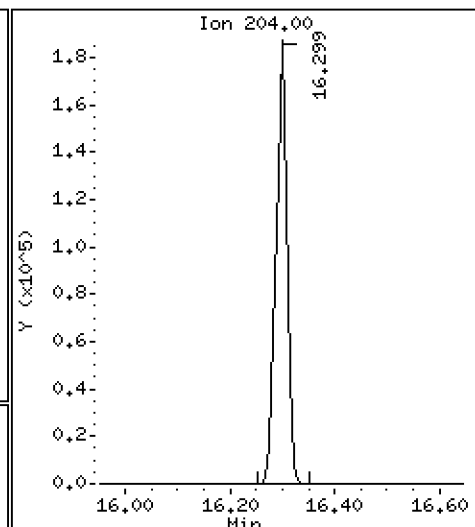
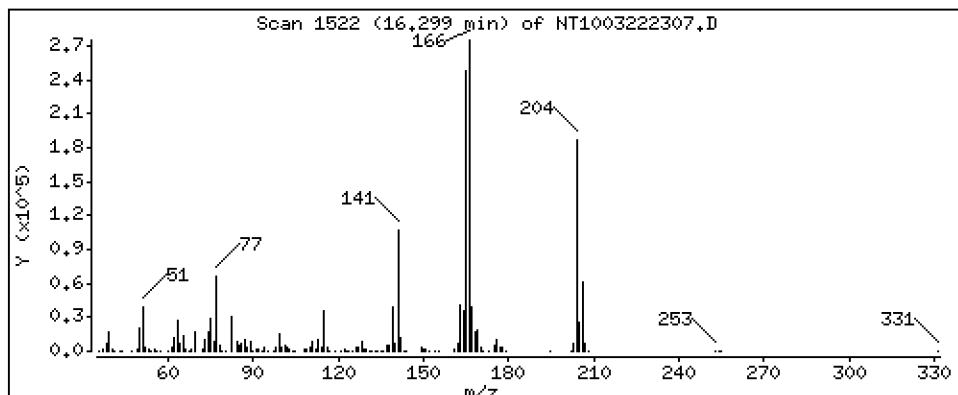
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 4,783 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

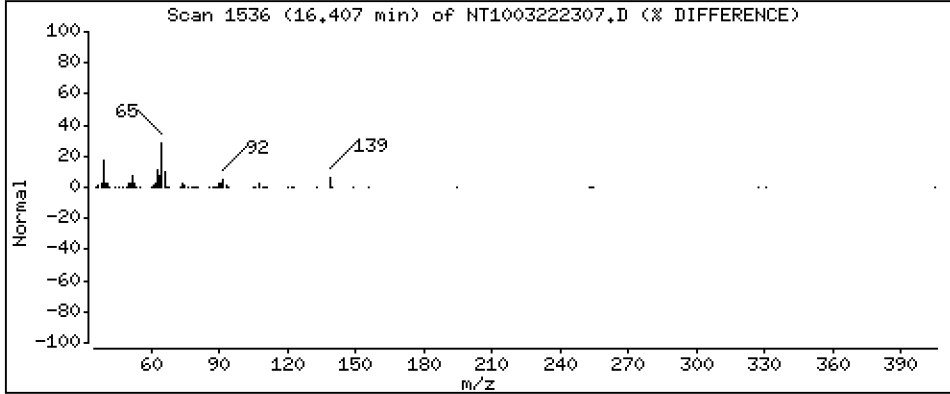
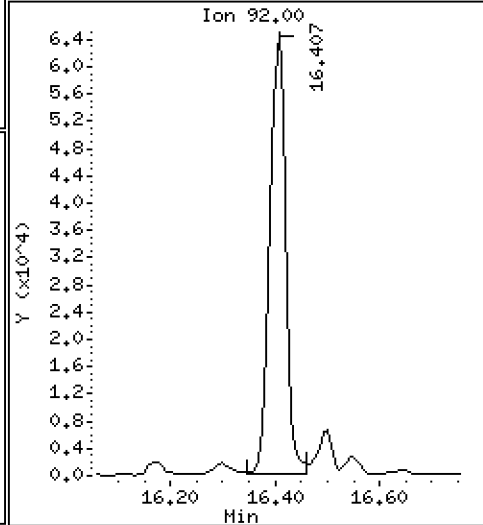
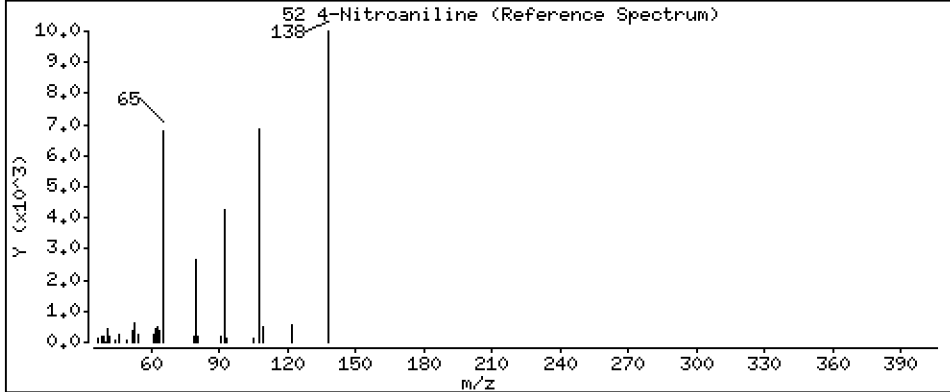
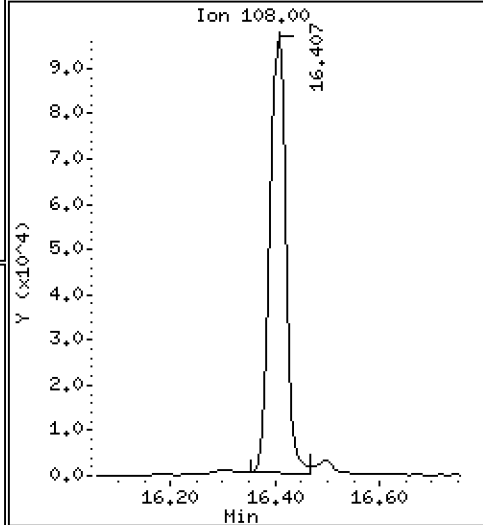
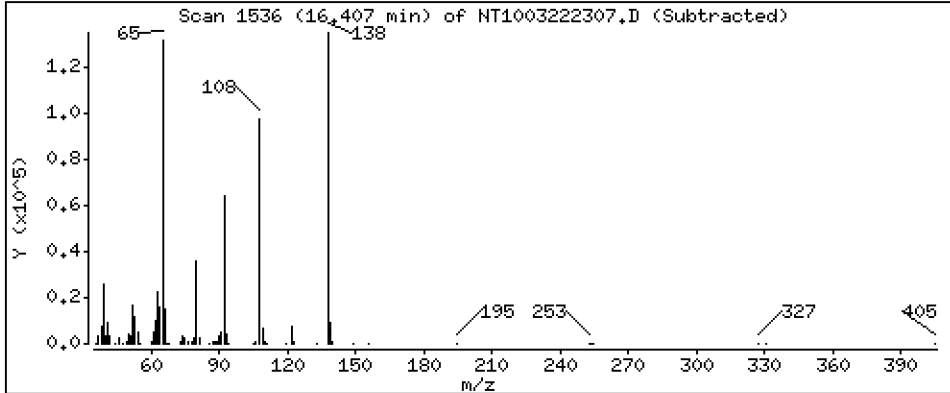
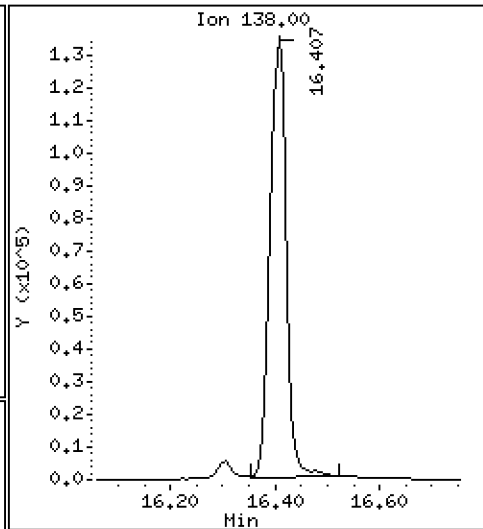
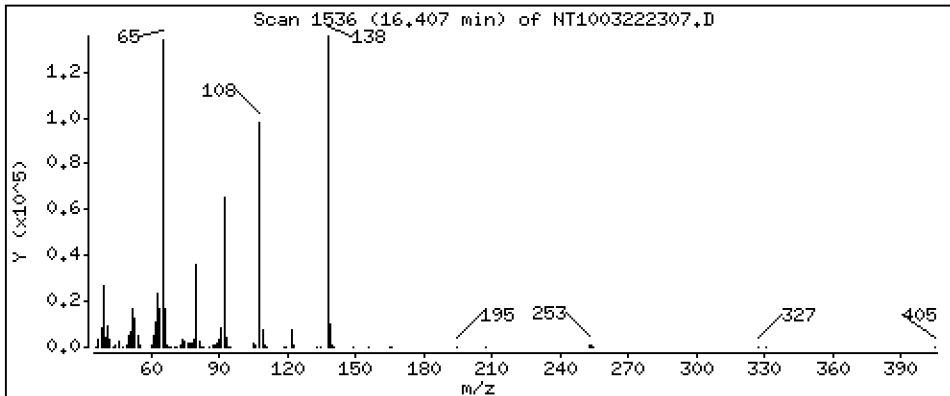
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

52 4-Nitroaniline

Concentration: 12,00 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

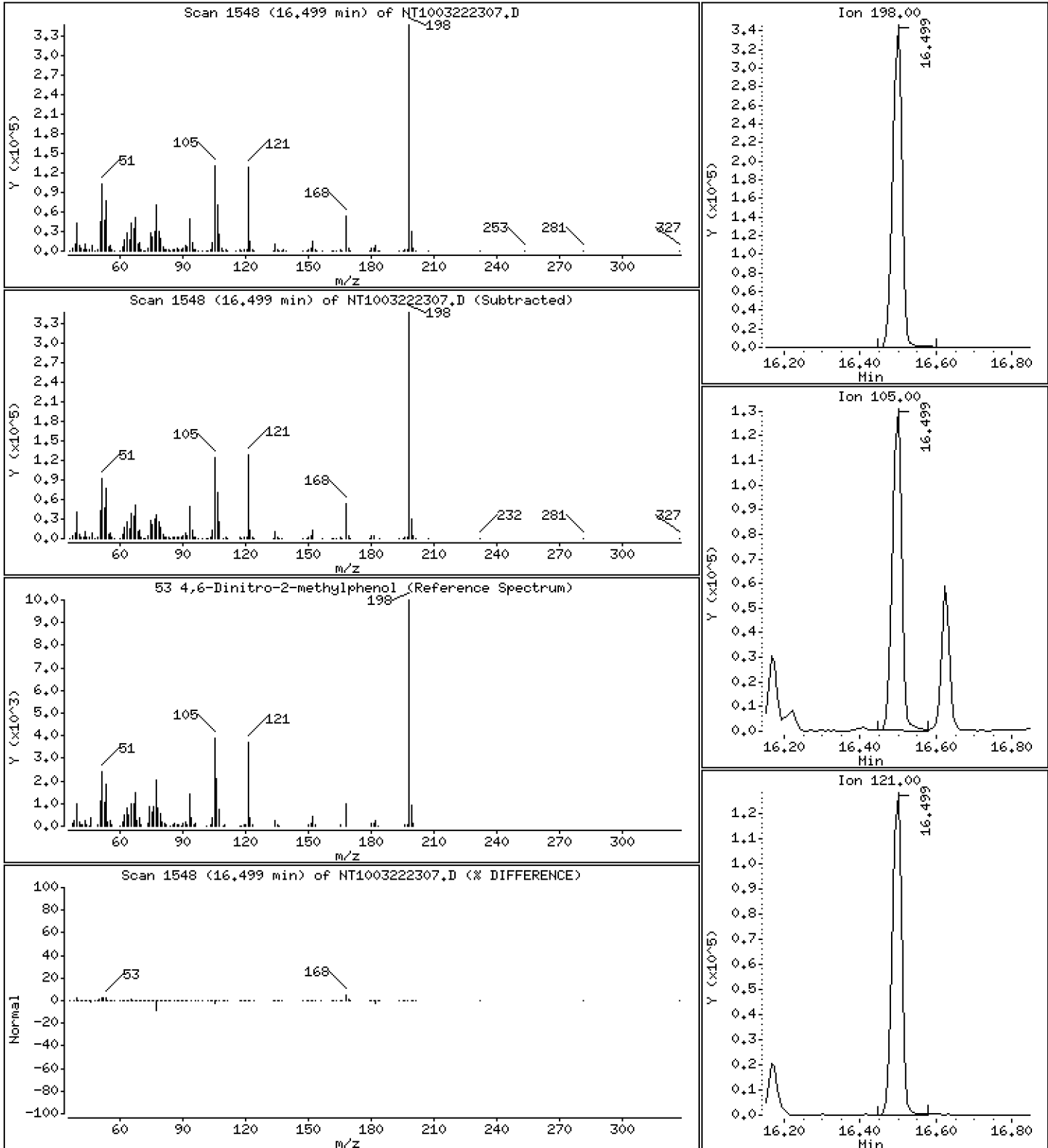
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

53 4,6-Dinitro-2-methylphenol

Concentration: 29,07 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

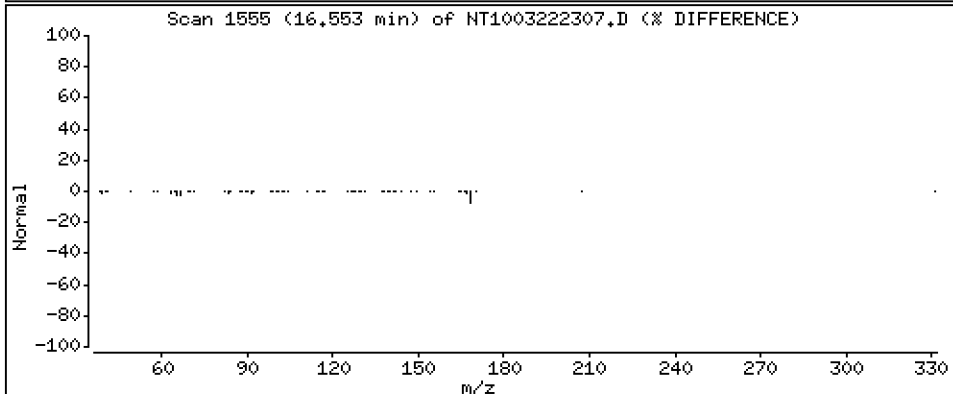
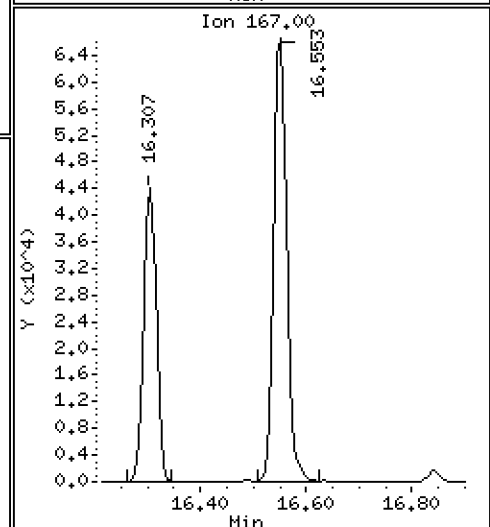
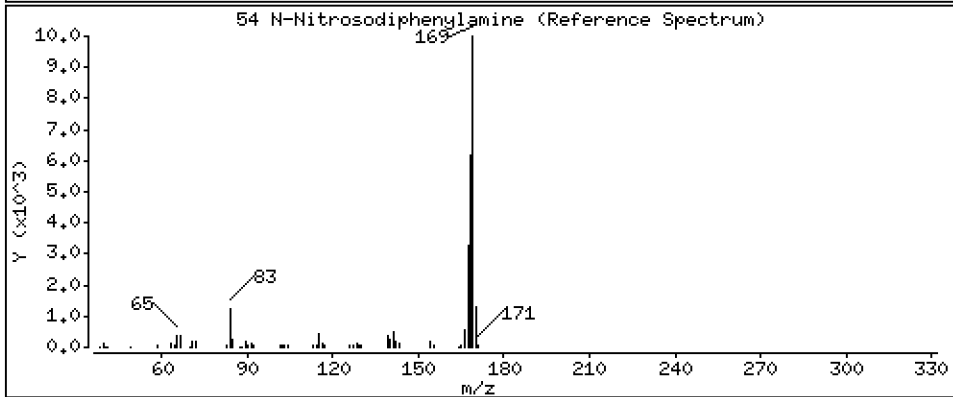
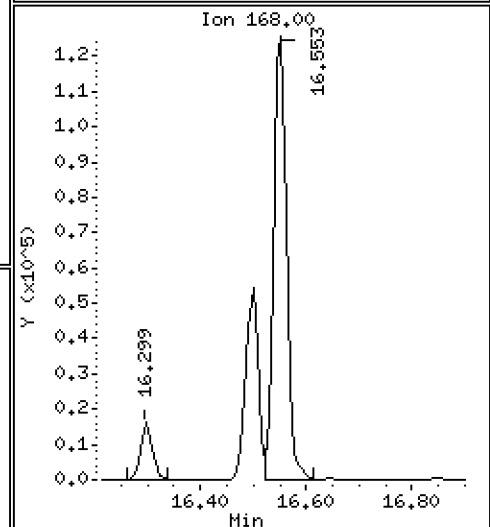
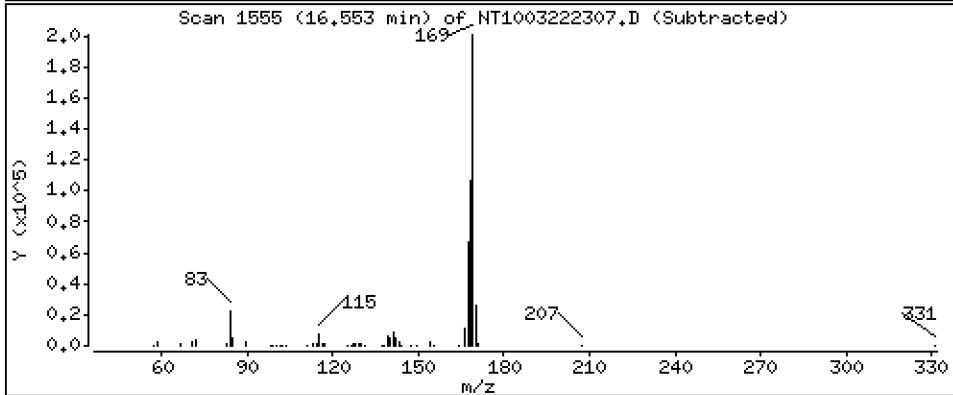
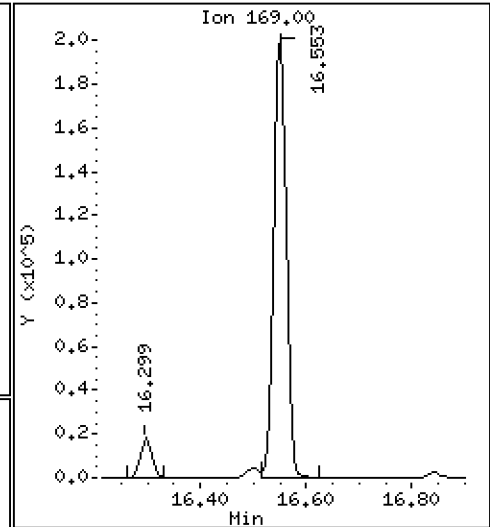
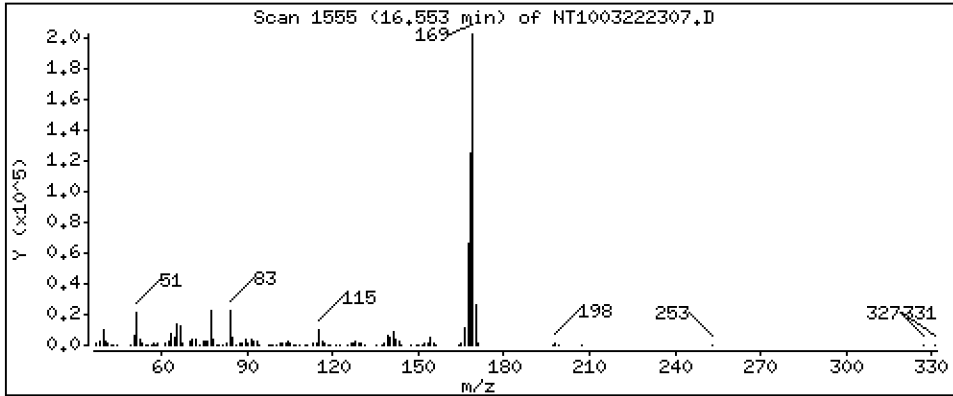
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

54 N-Nitrosodiphenylamine

Concentration: 3,888 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

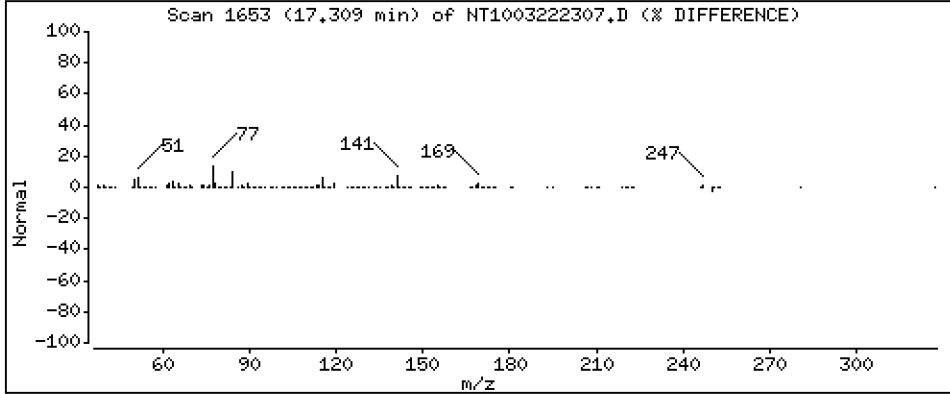
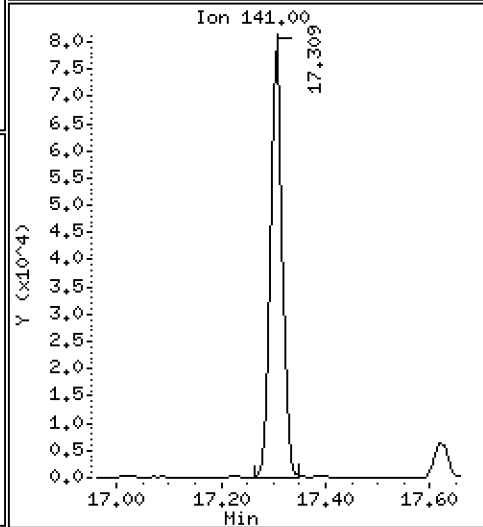
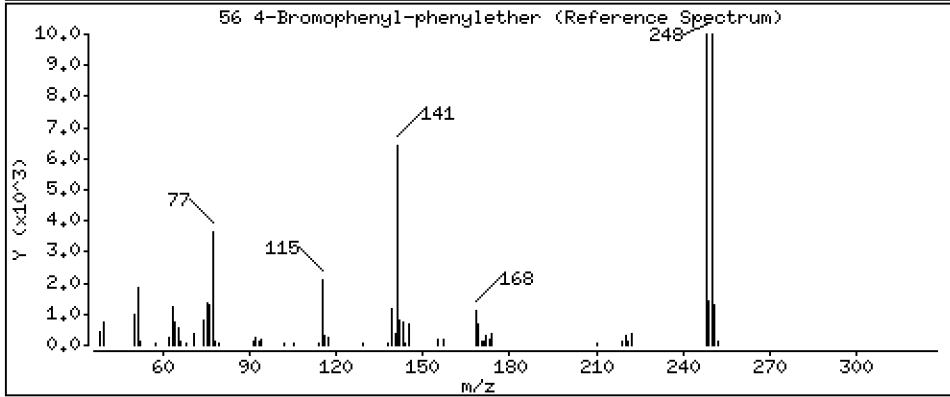
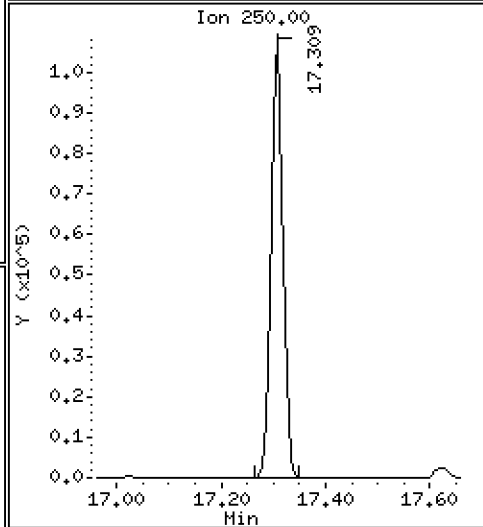
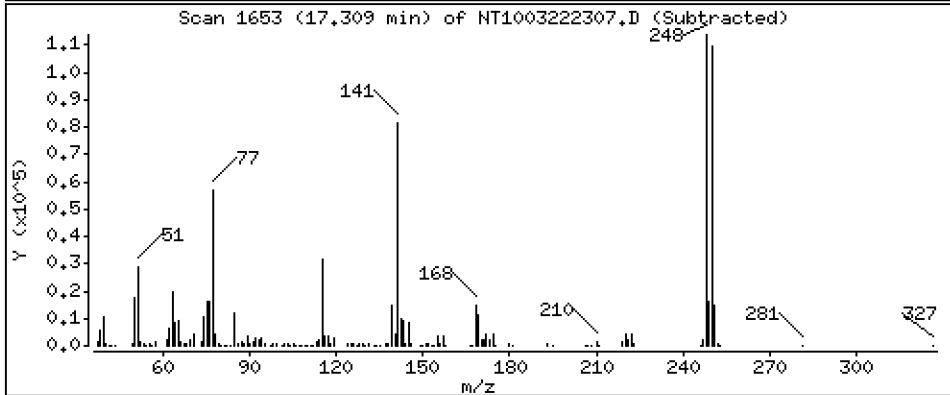
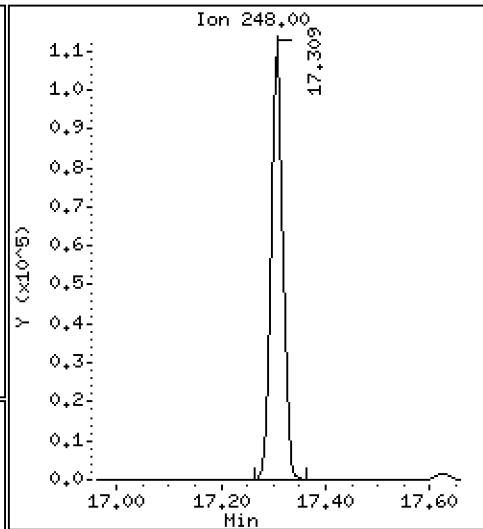
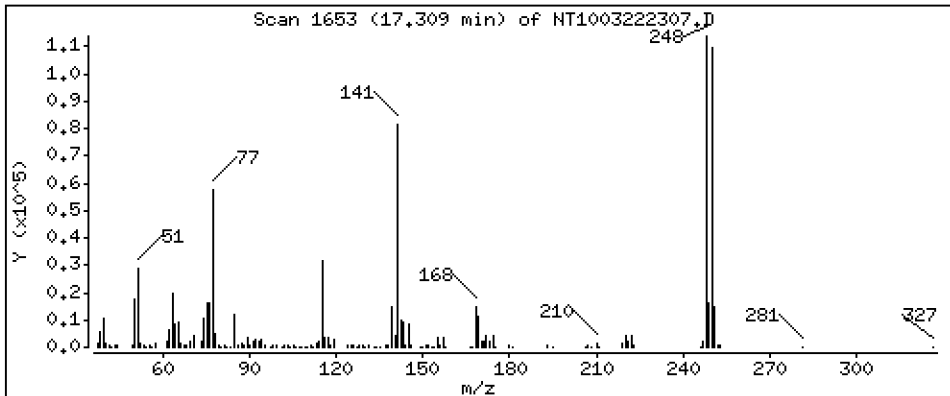
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 5,059 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

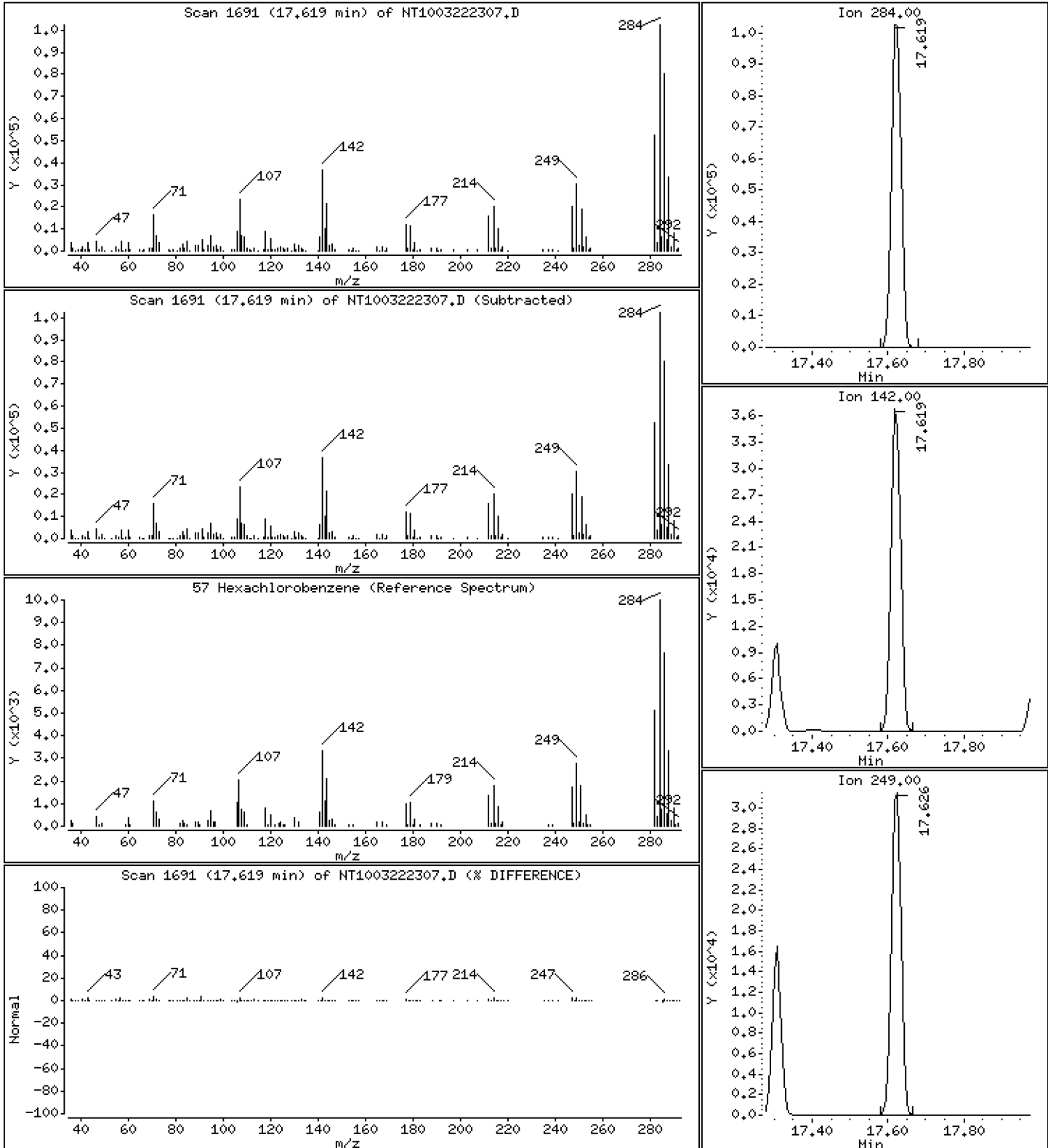
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

57 Hexachlorobenzene

Concentration: 4,916 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

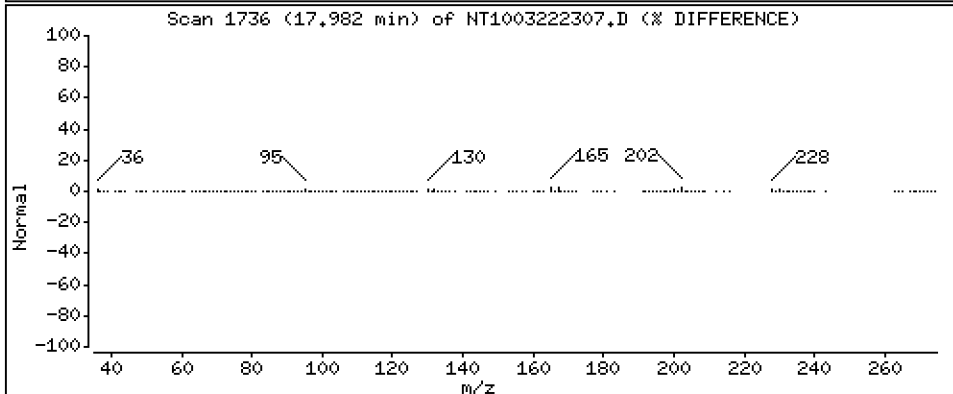
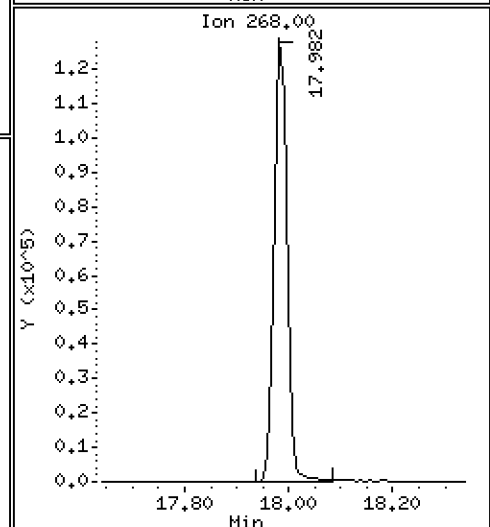
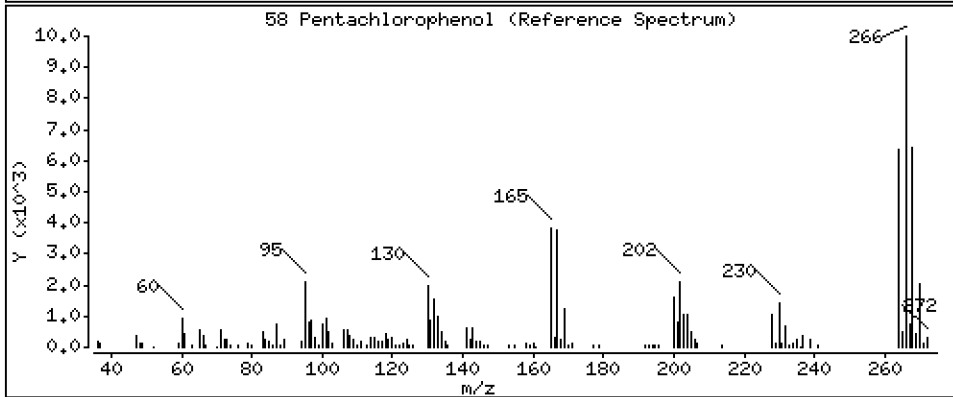
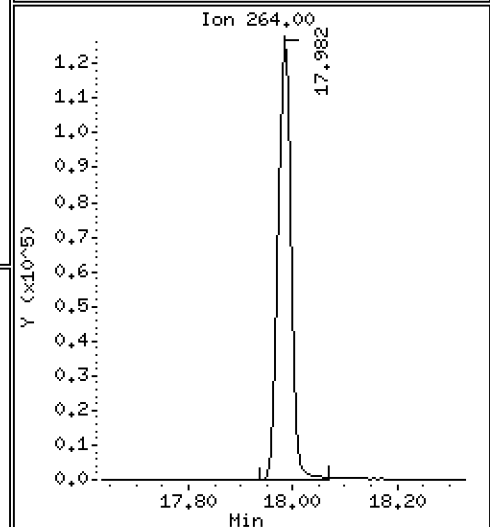
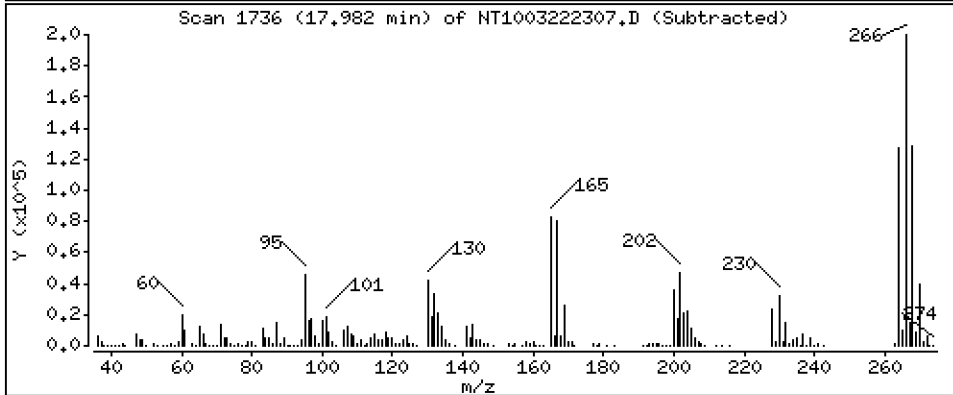
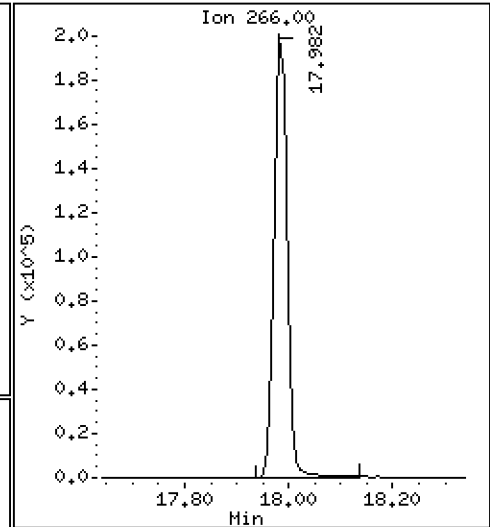
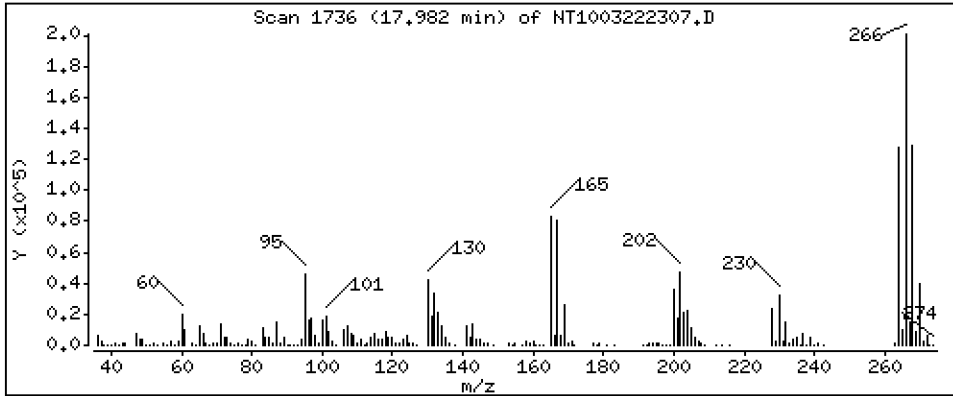
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 15,16 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

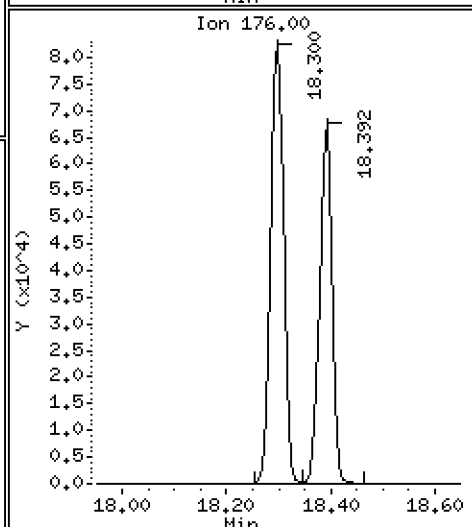
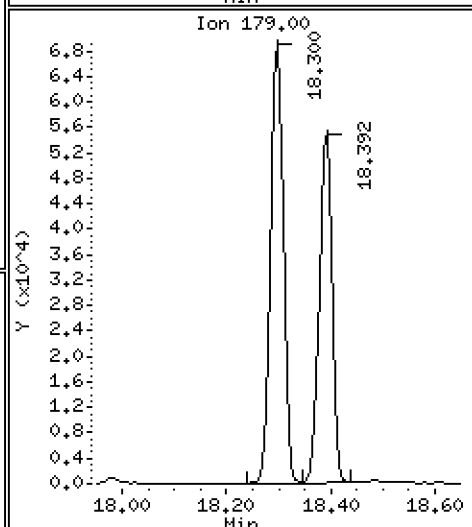
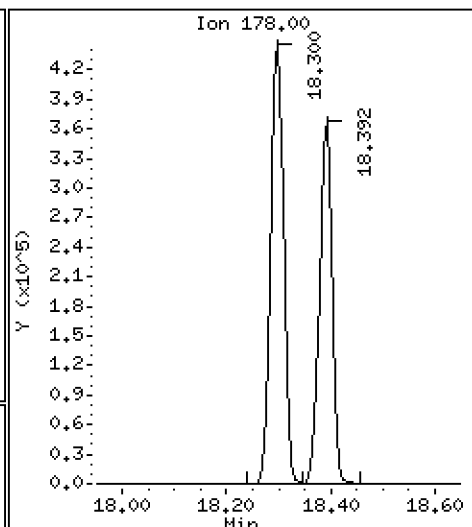
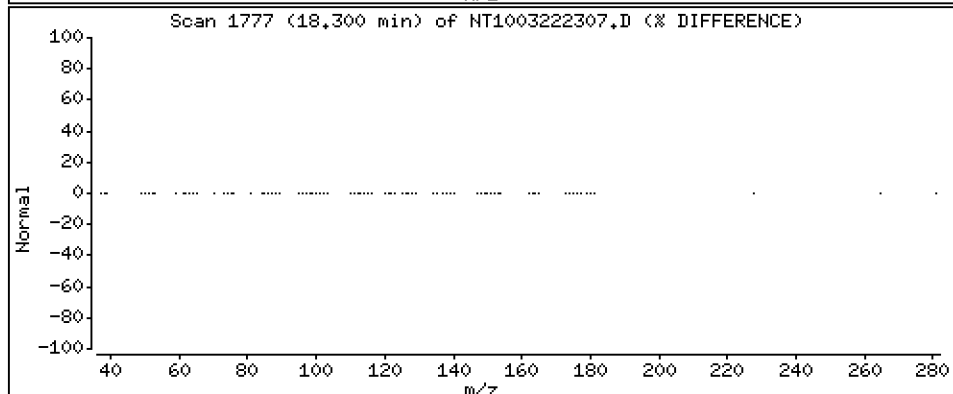
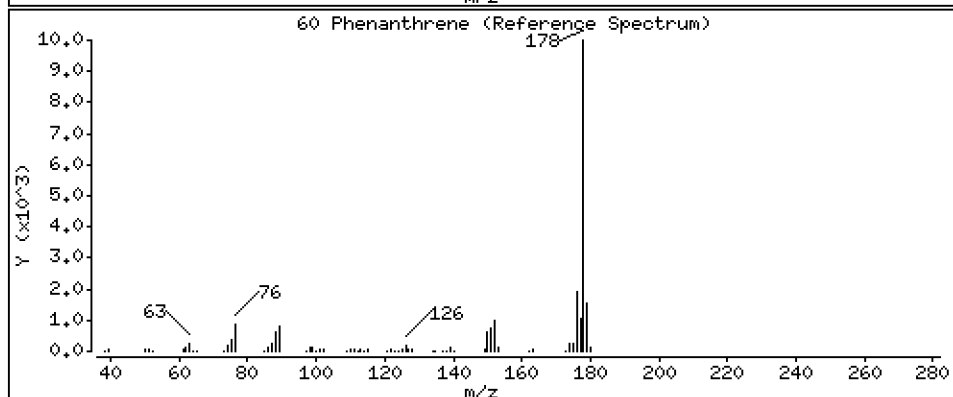
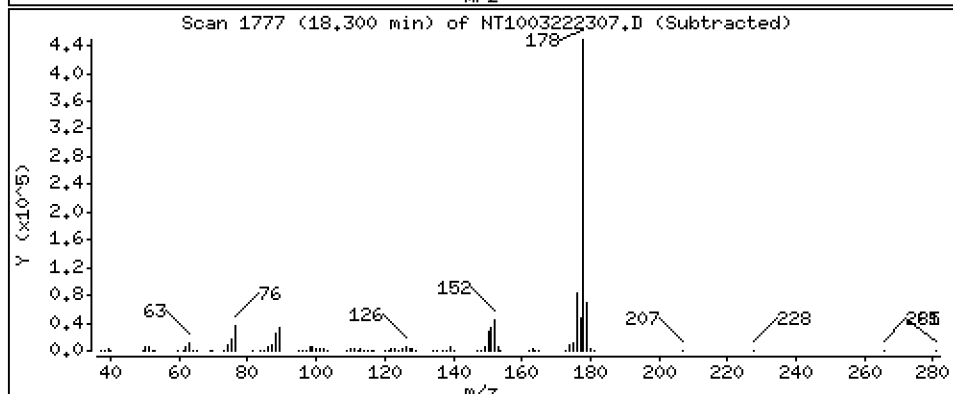
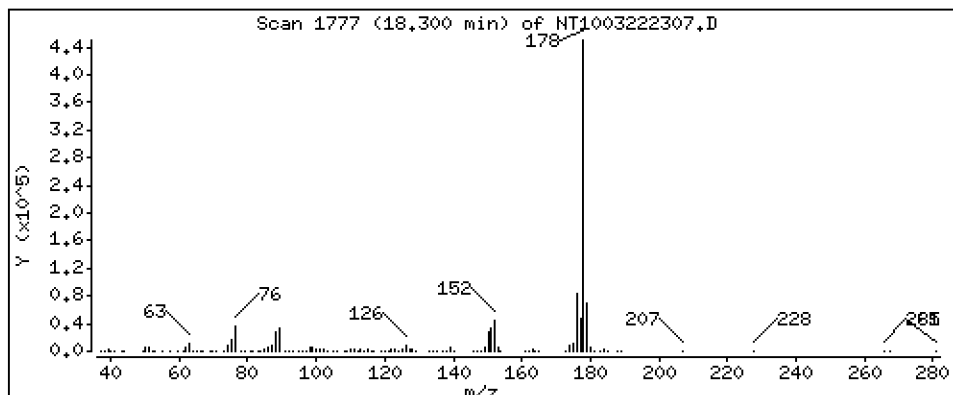
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 4,407 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

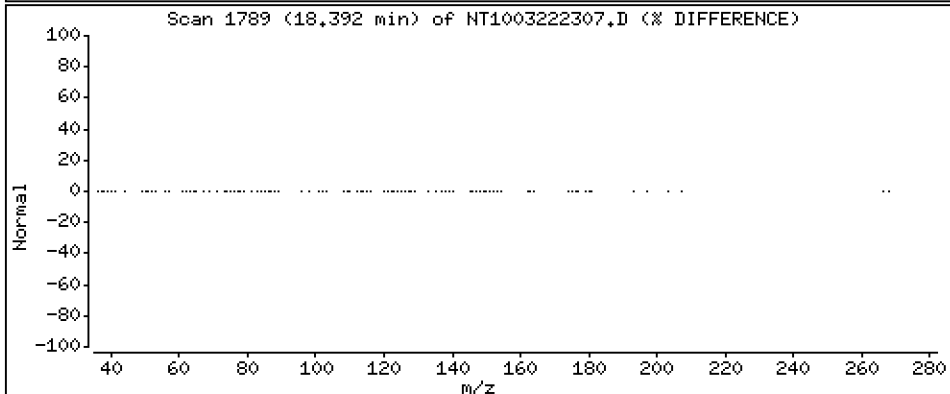
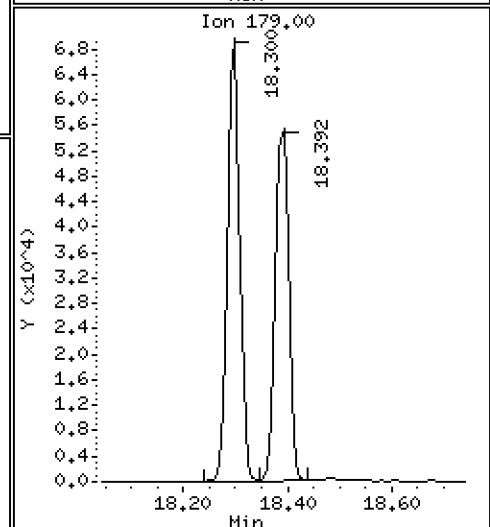
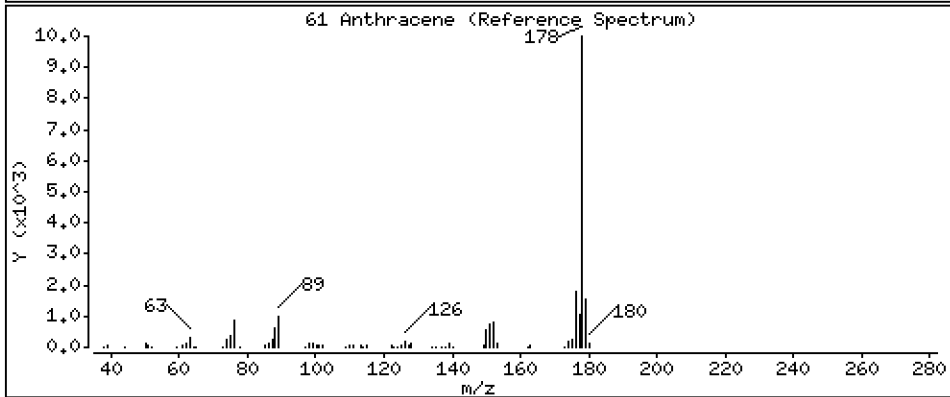
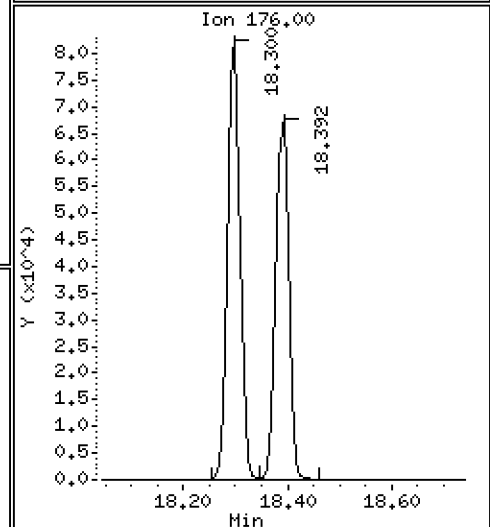
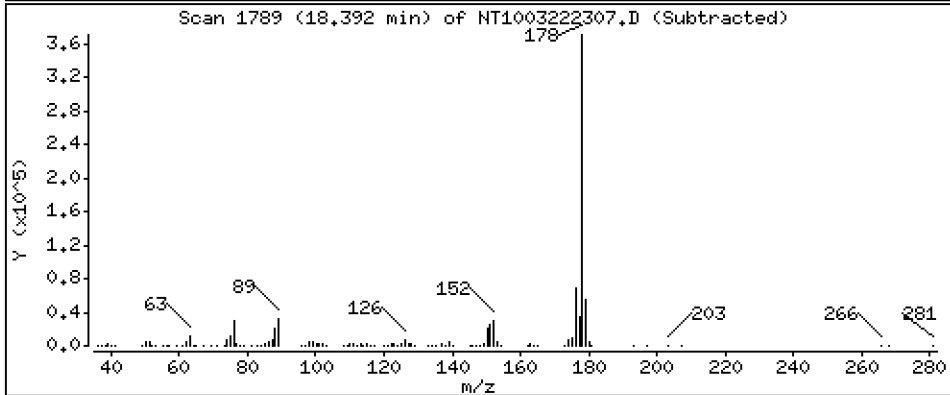
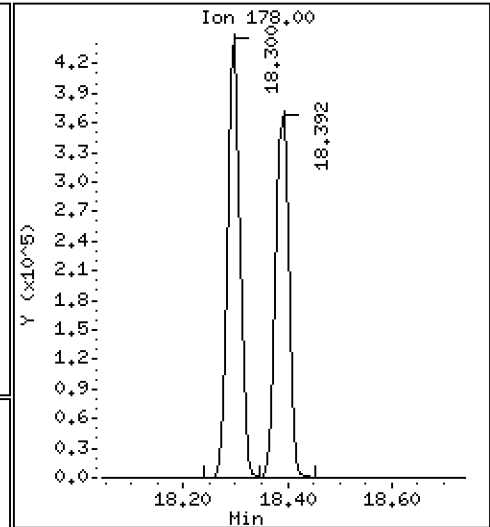
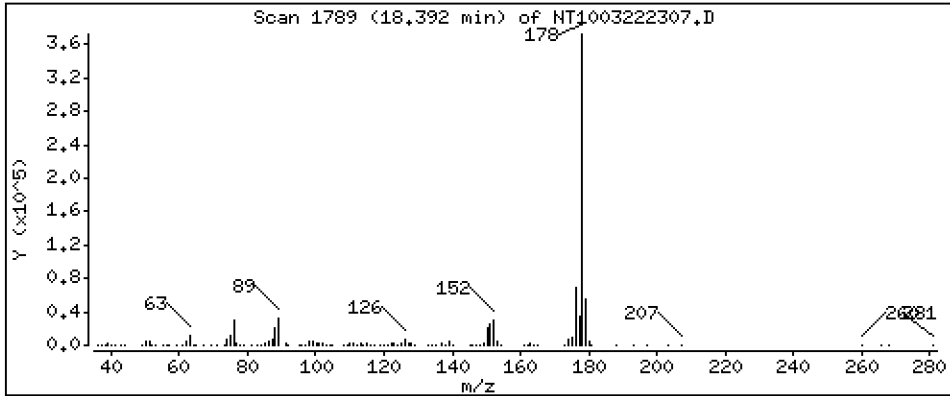
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 3,905 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

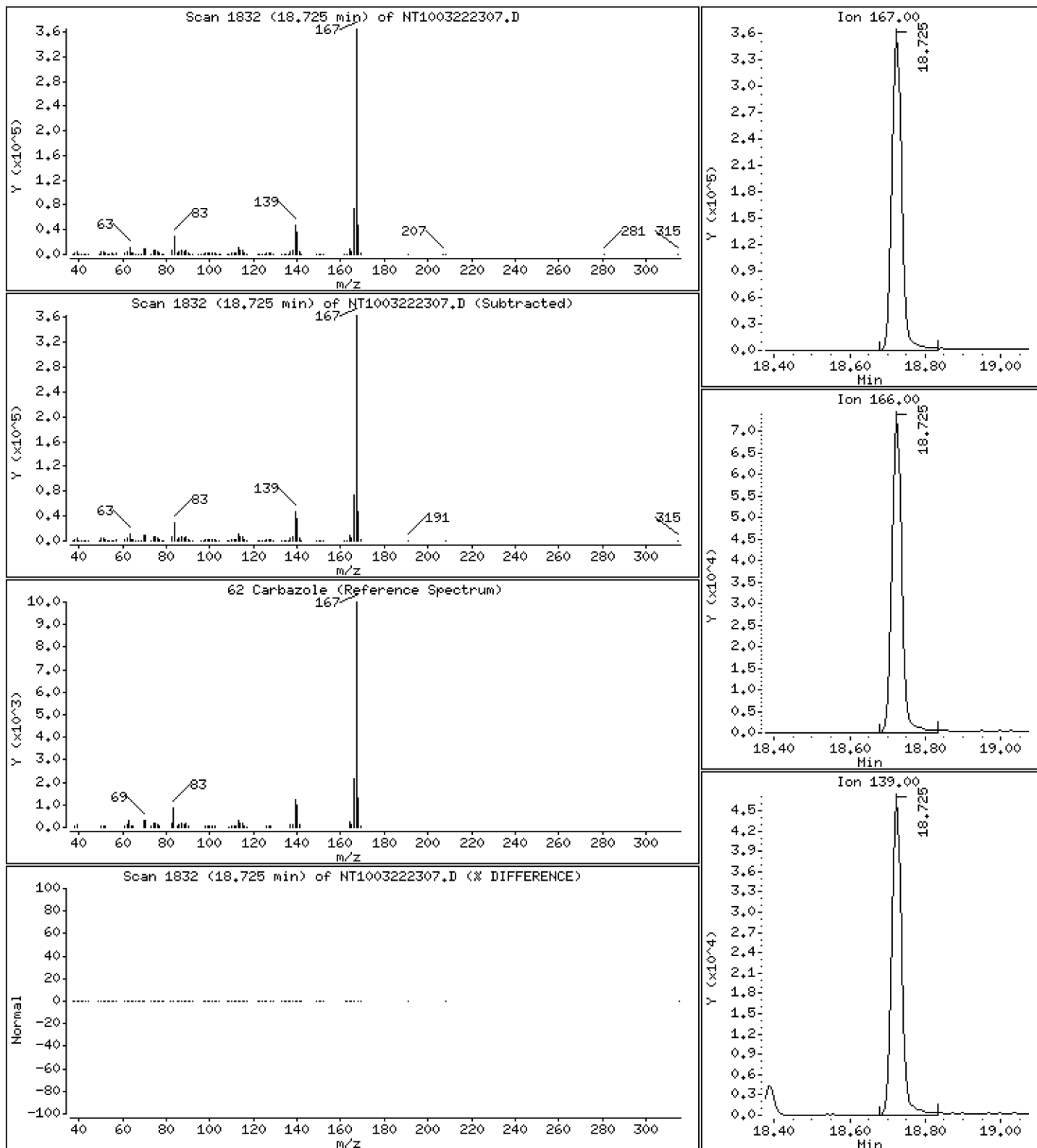
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 4,342 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

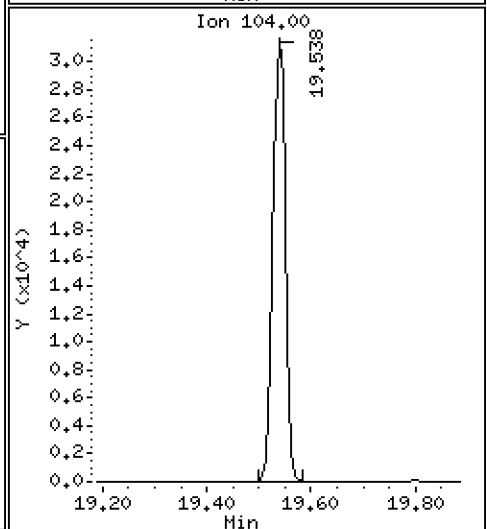
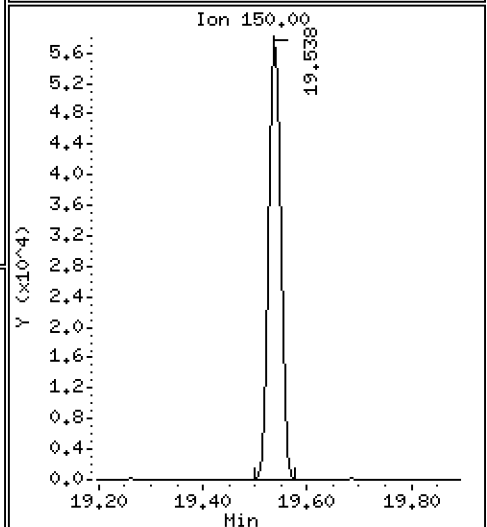
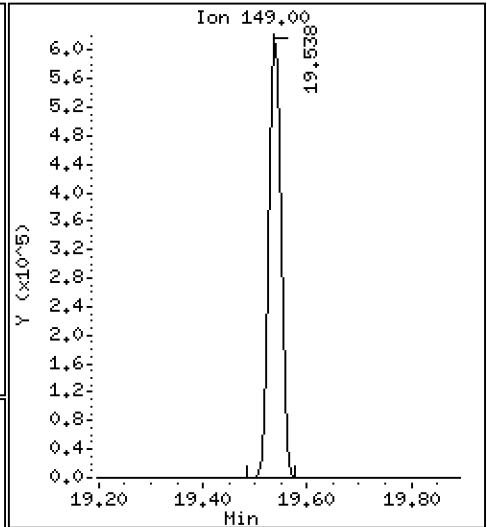
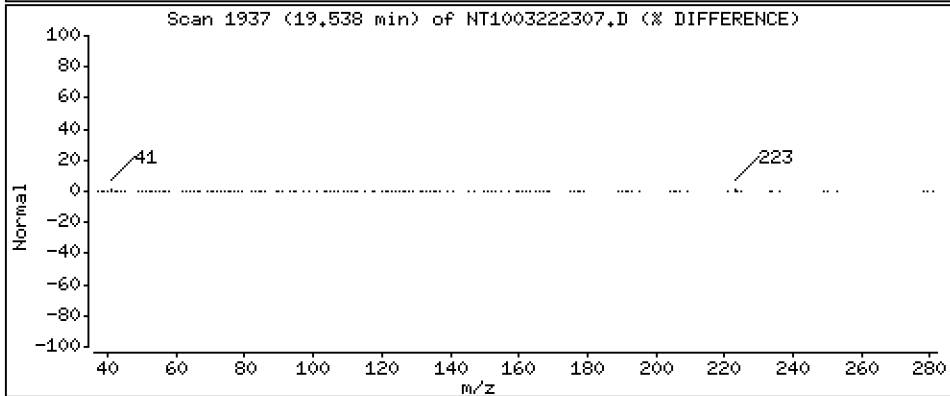
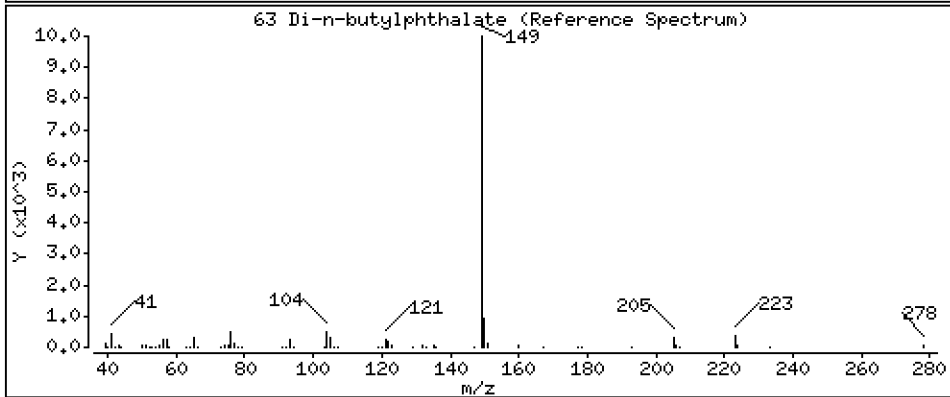
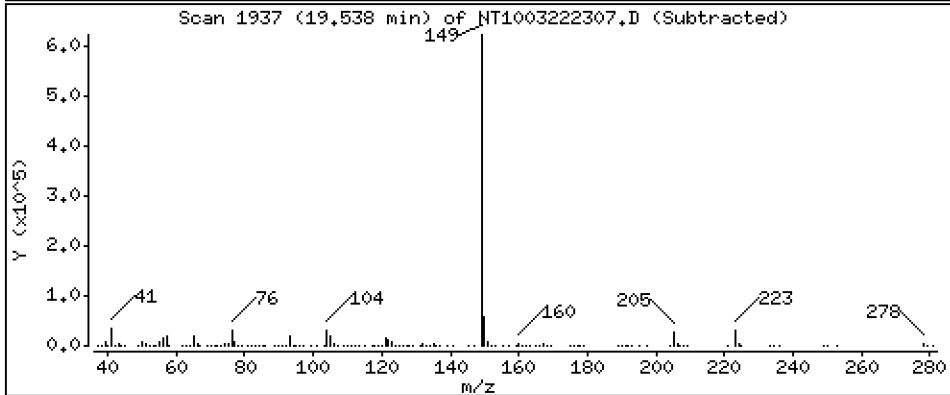
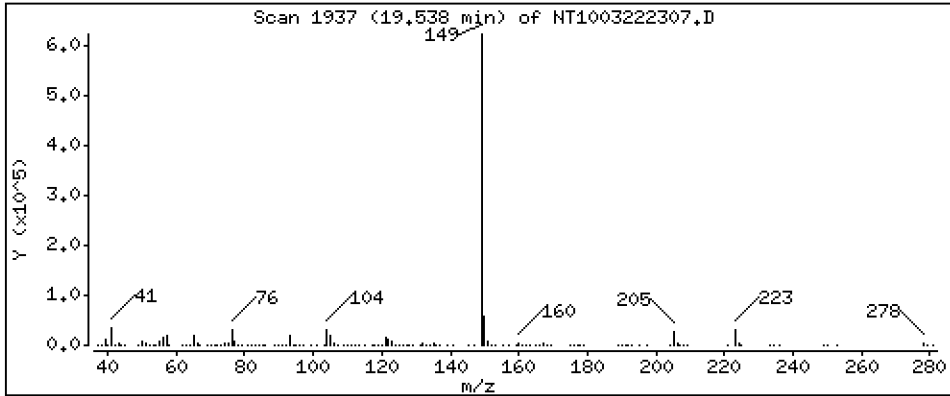
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 5,143 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

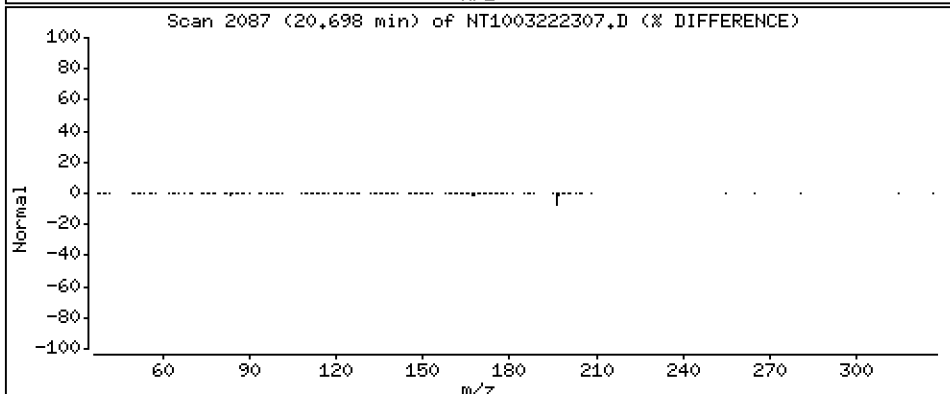
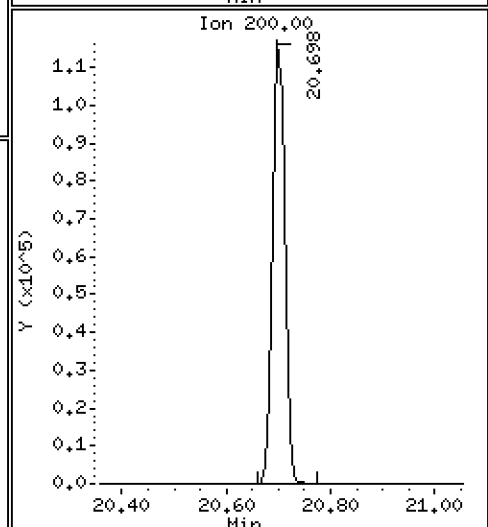
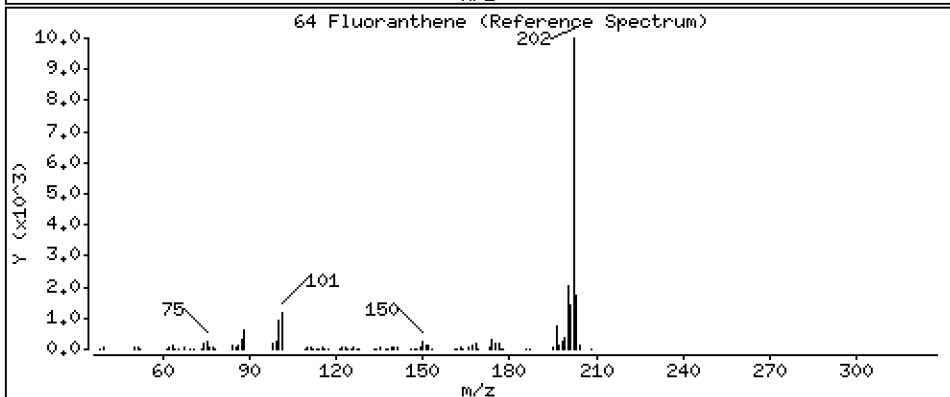
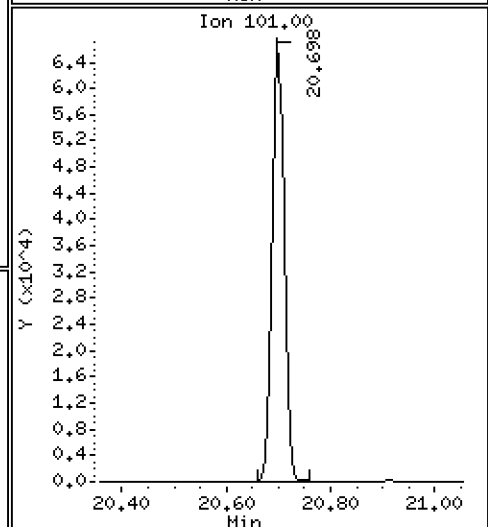
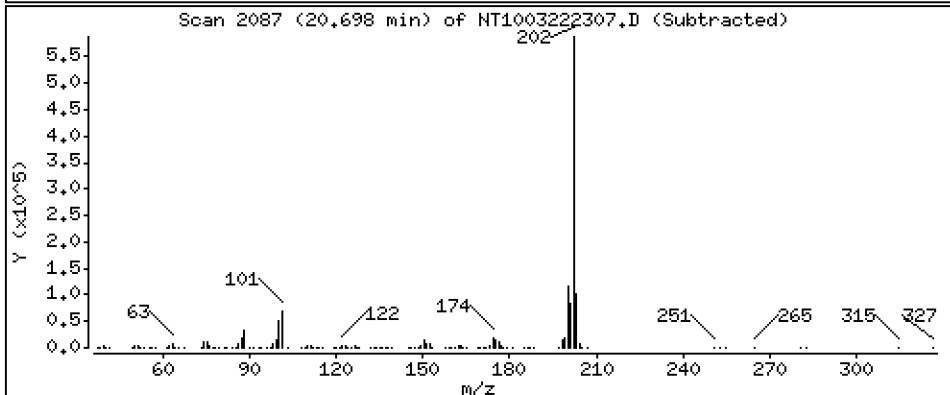
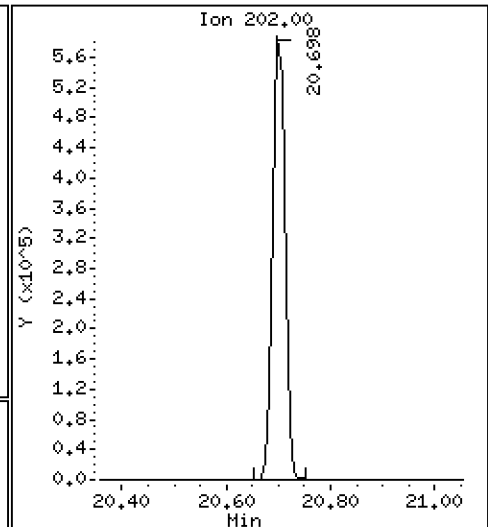
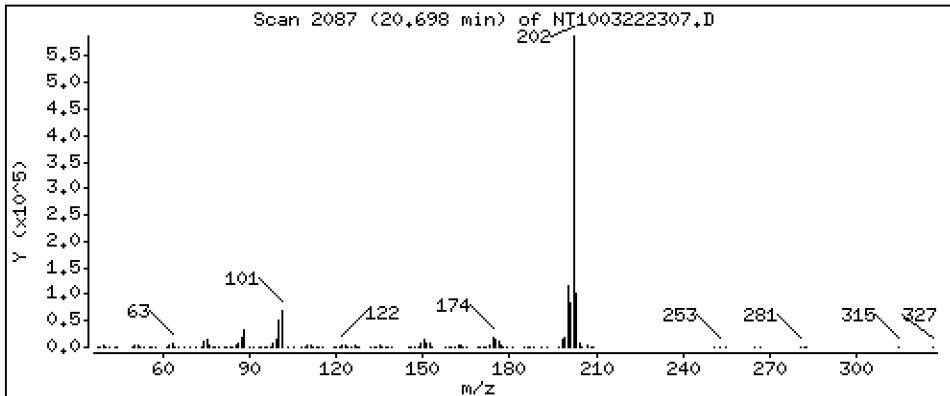
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 4,388 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

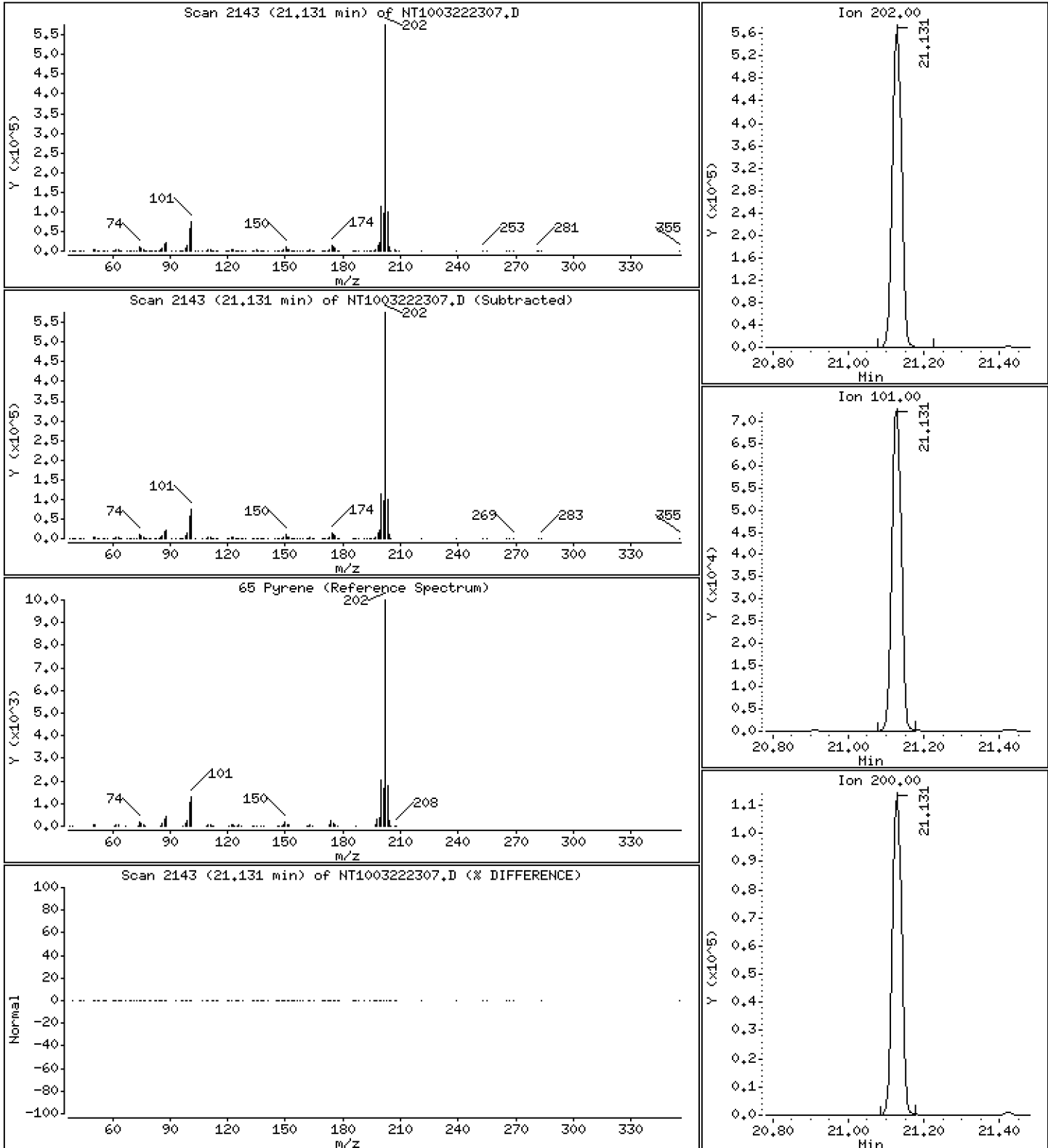
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 4,806 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

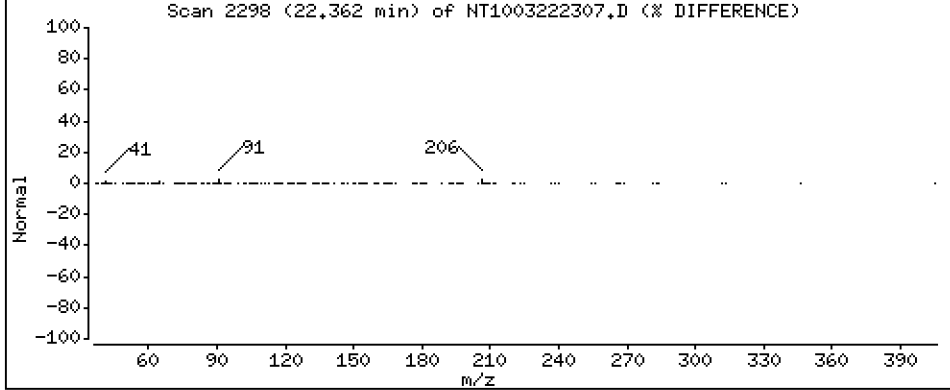
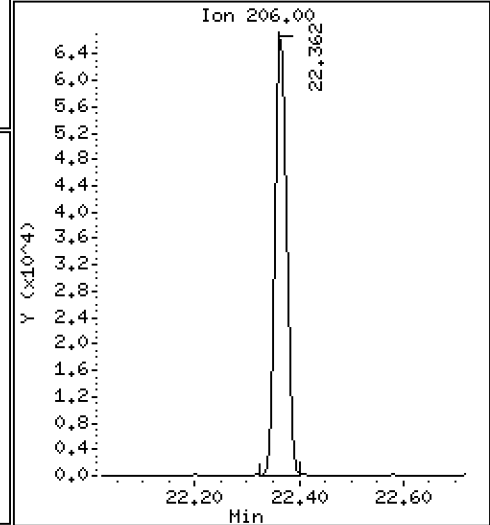
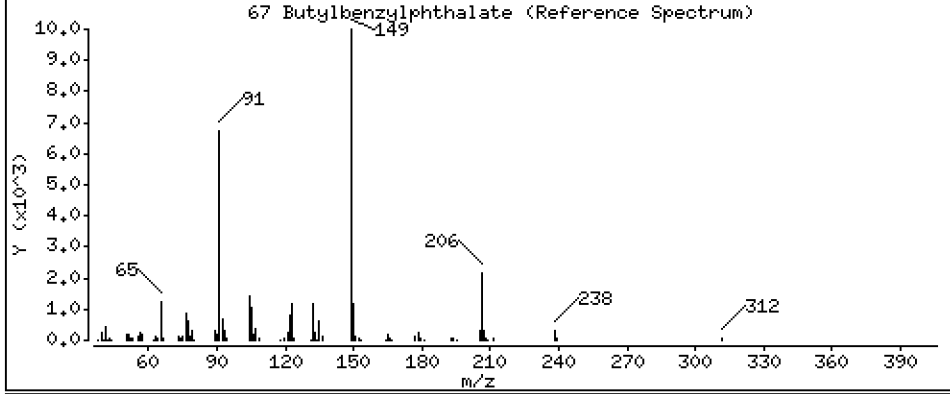
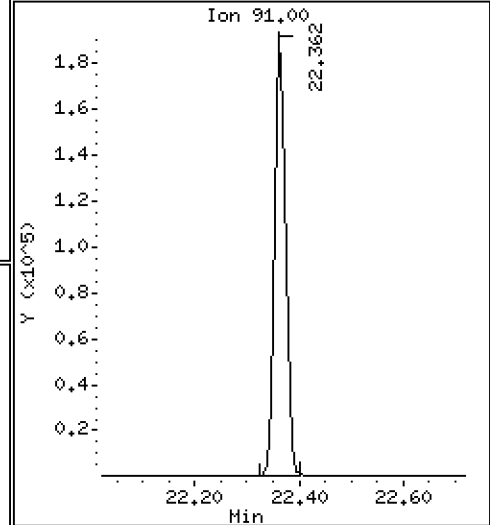
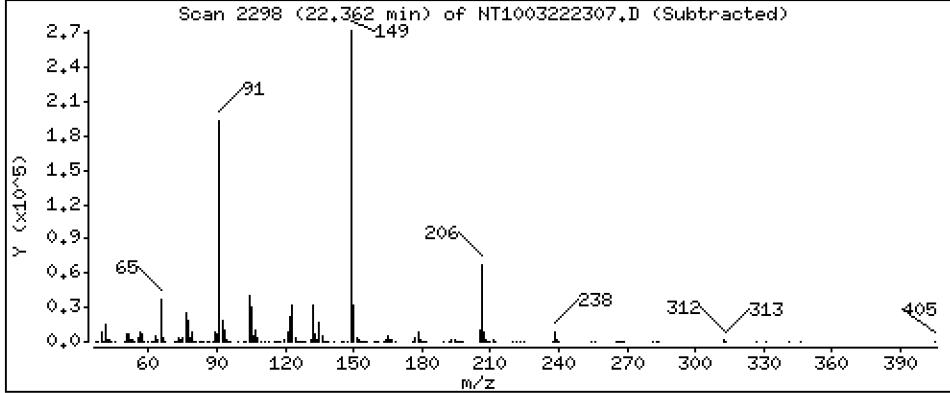
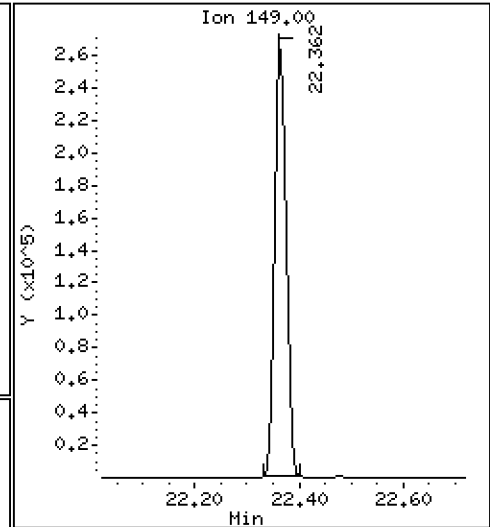
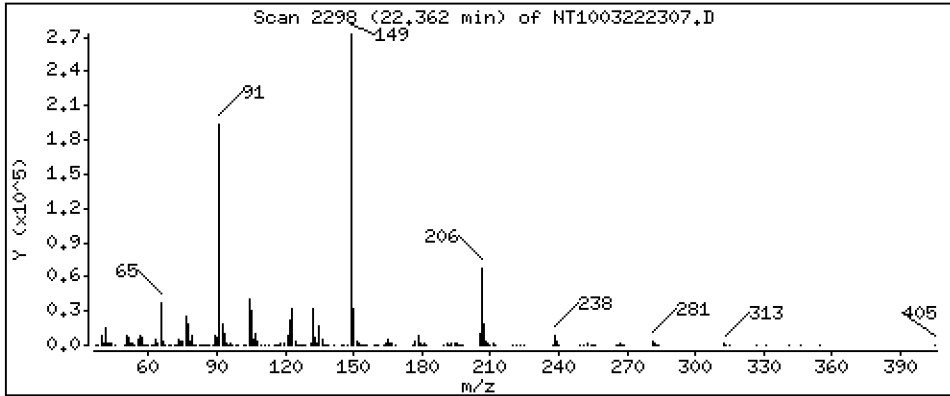
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 5,070 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

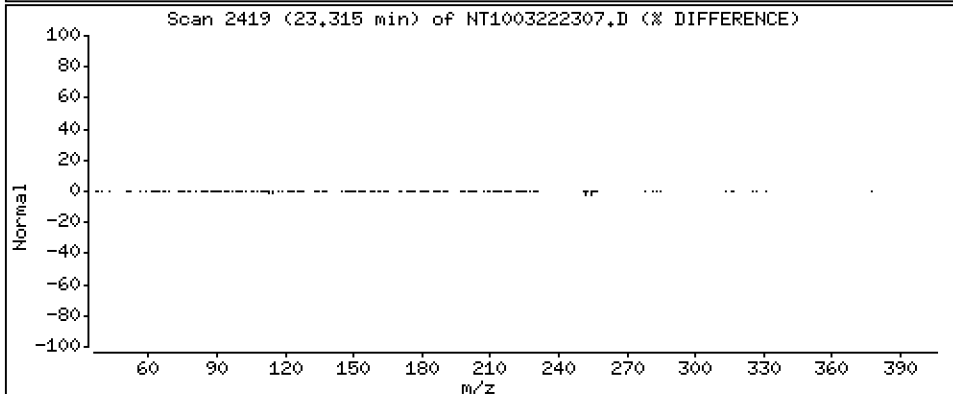
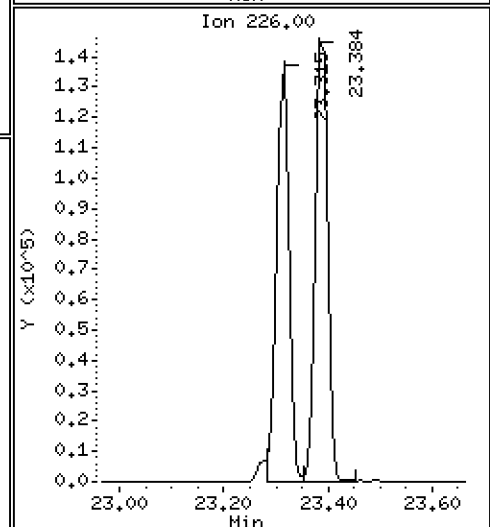
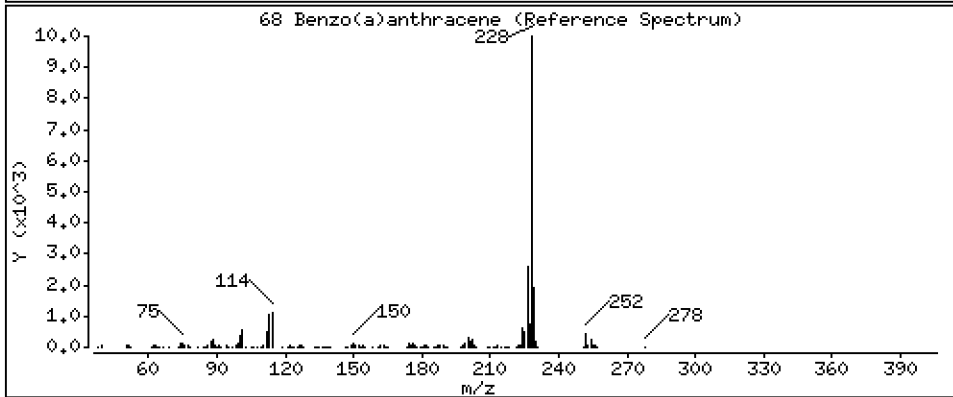
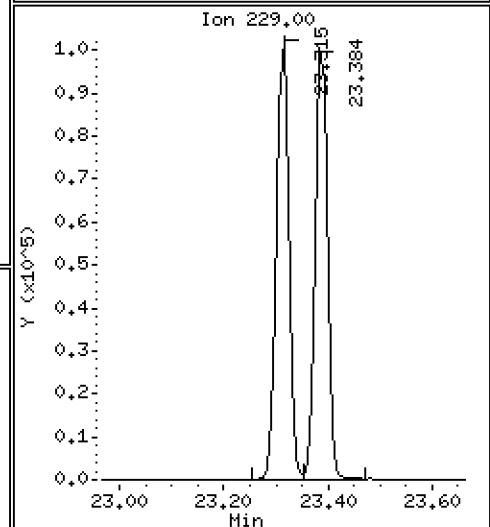
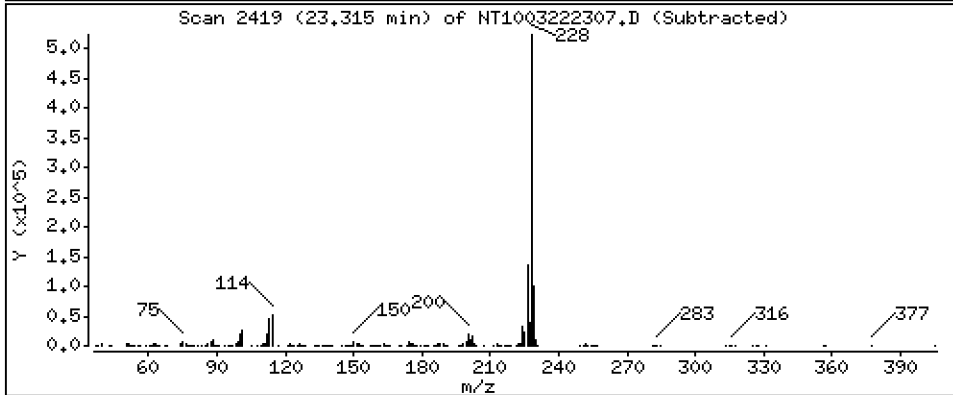
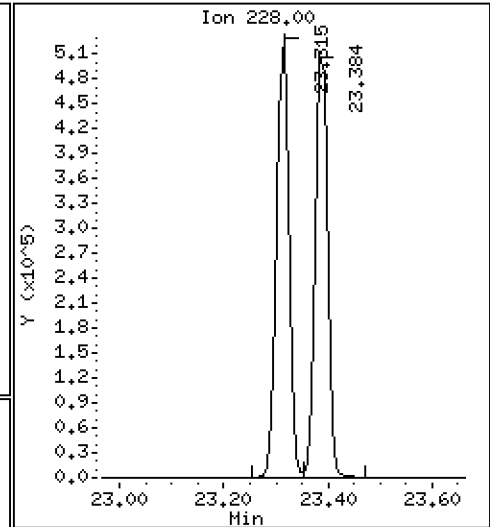
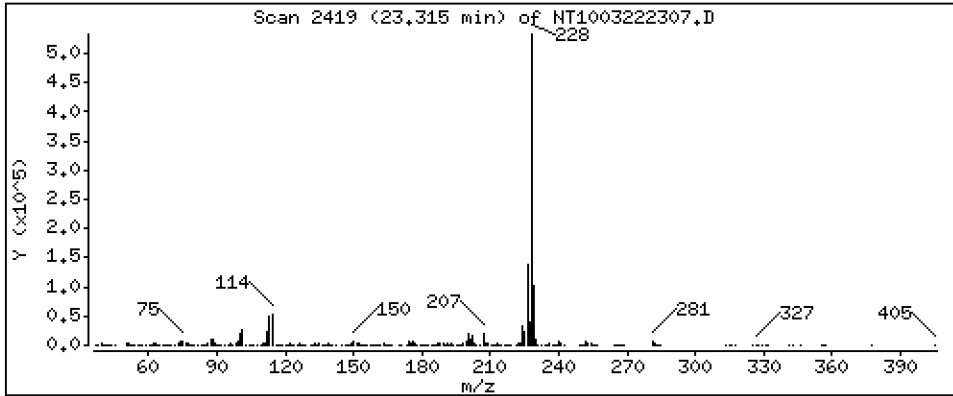
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 4,518 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

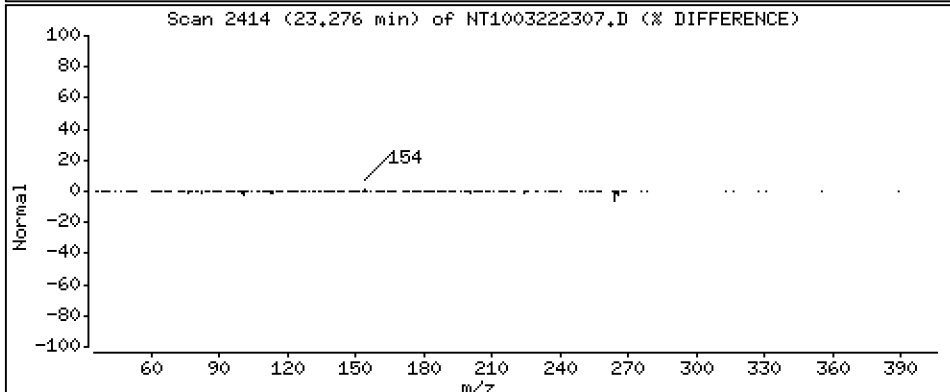
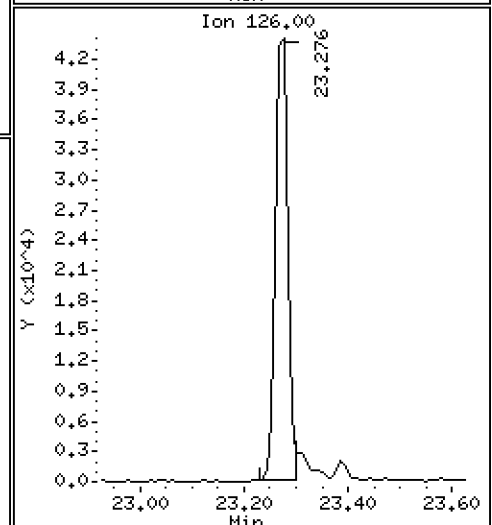
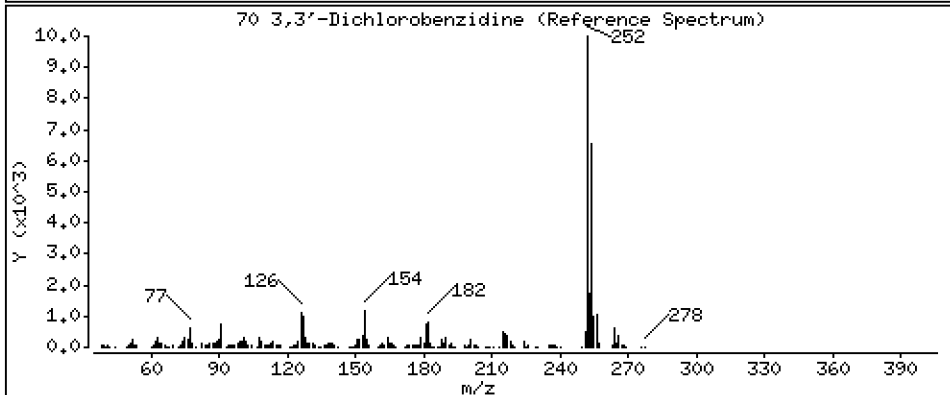
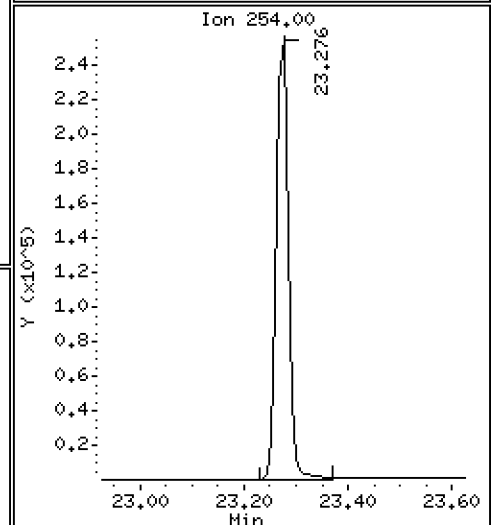
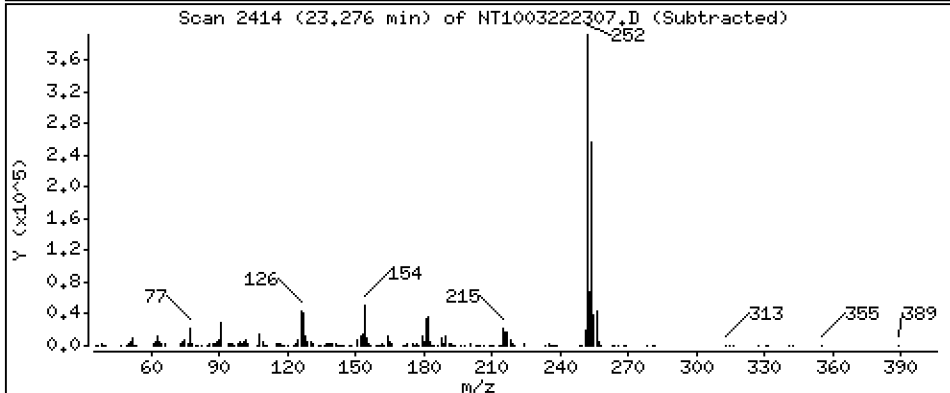
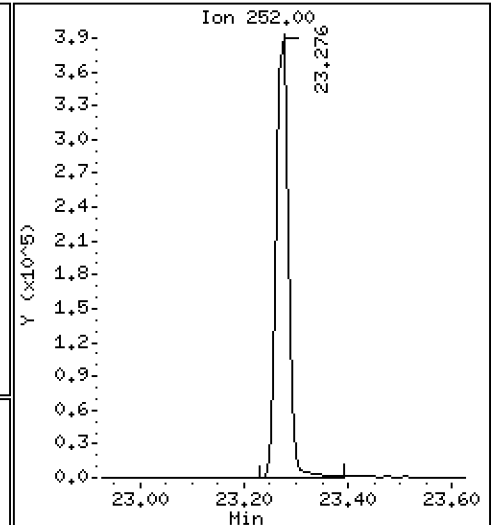
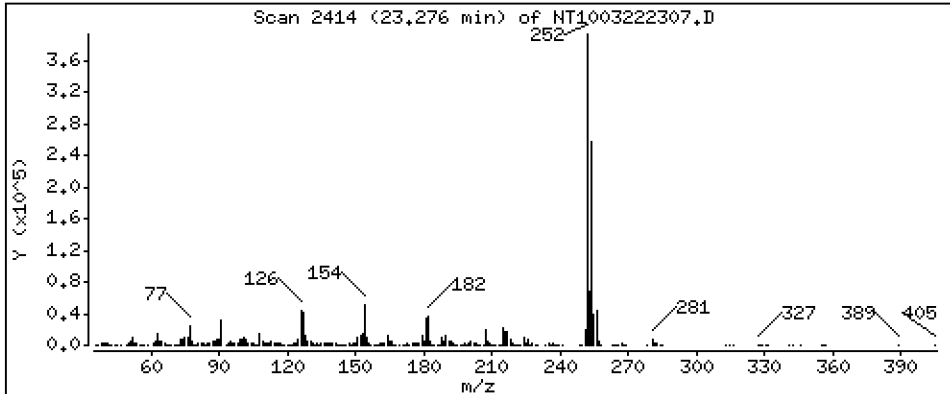
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

70 3,3'-Dichlorobenzidine

Concentration: 10,21 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

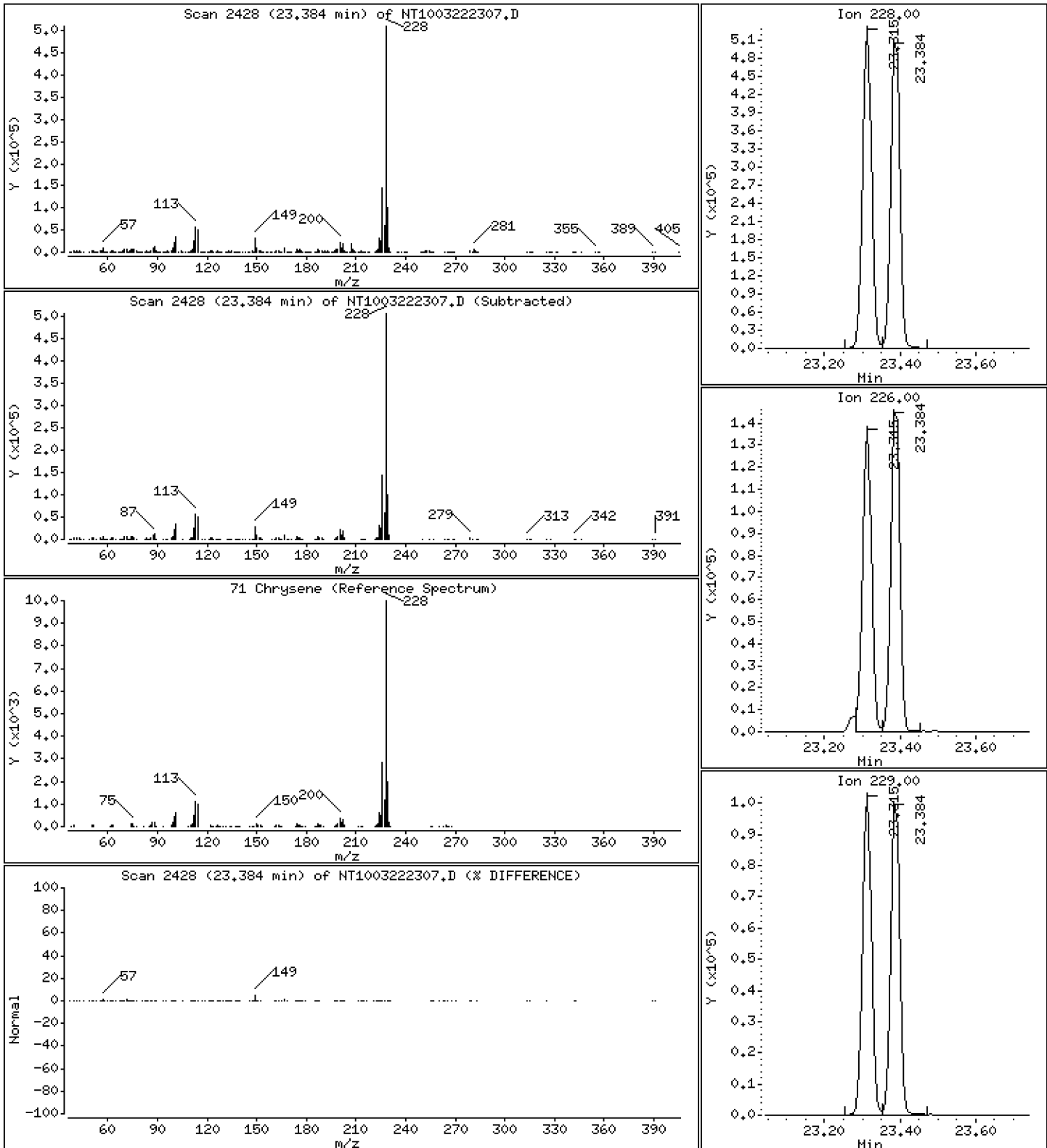
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 4,427 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

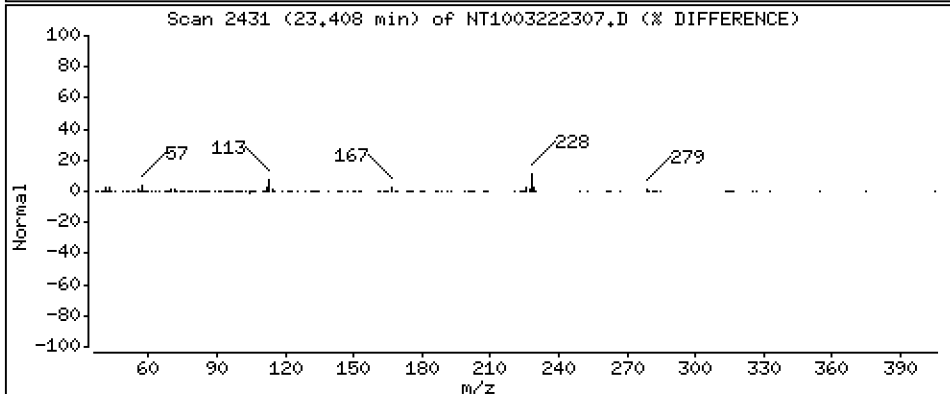
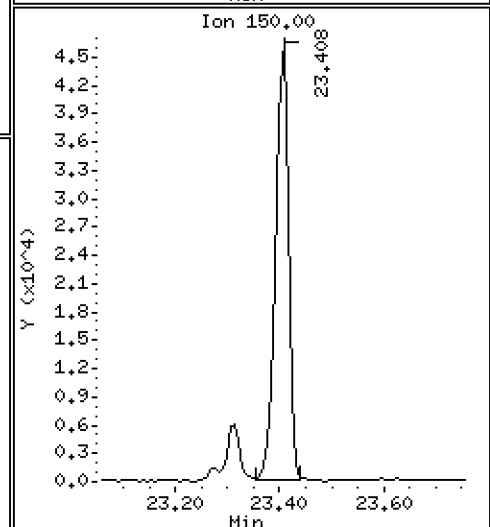
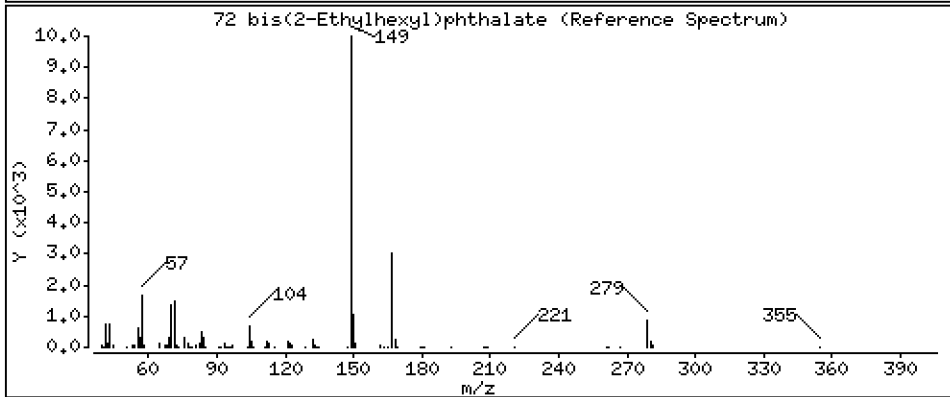
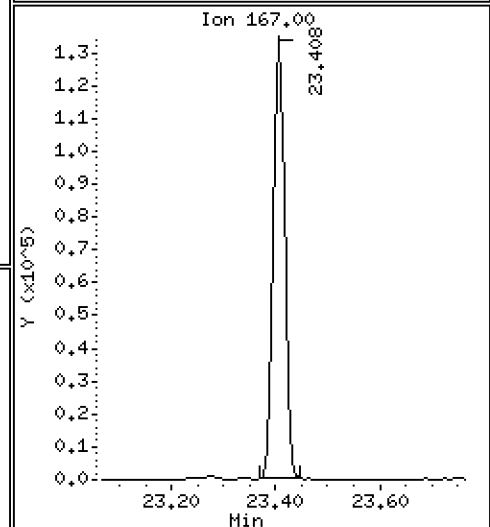
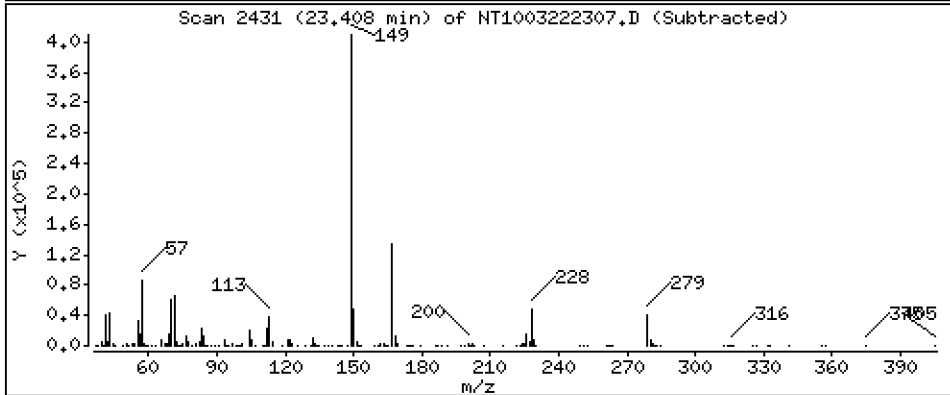
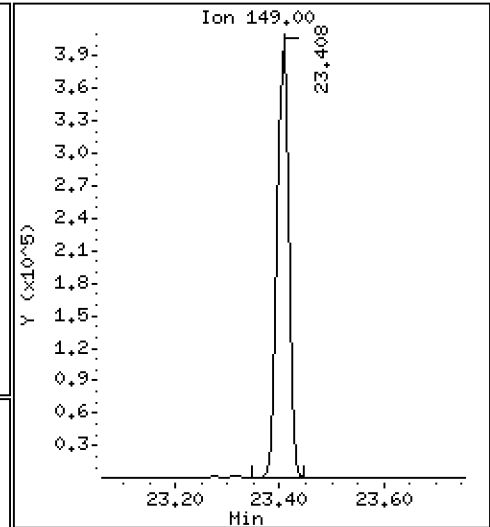
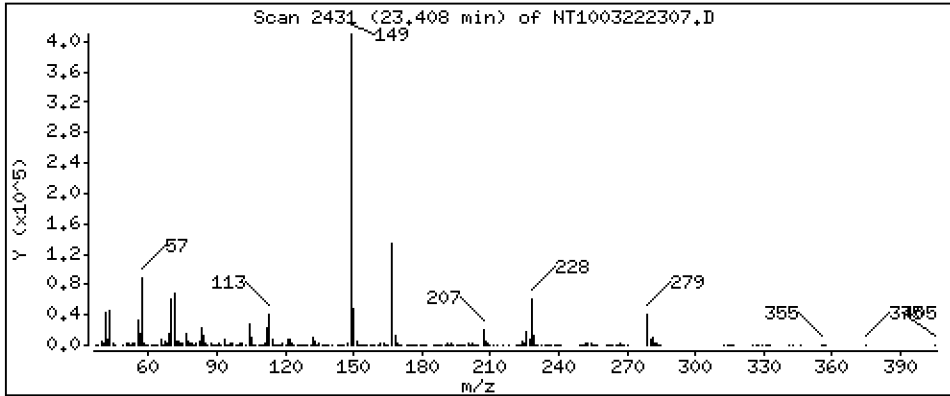
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 4,636 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

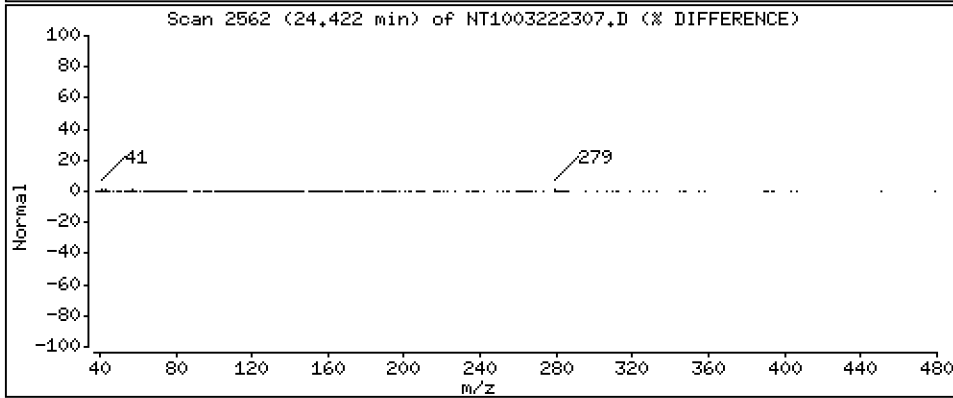
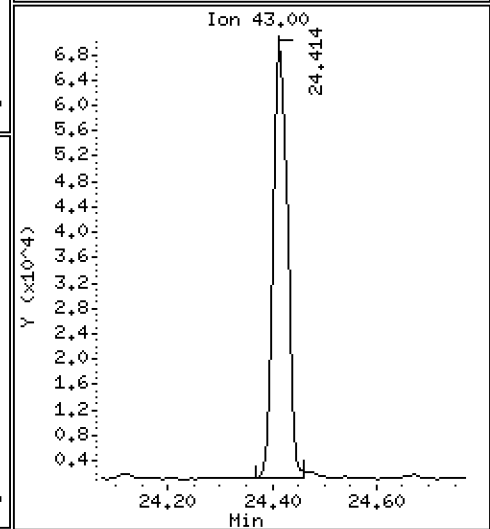
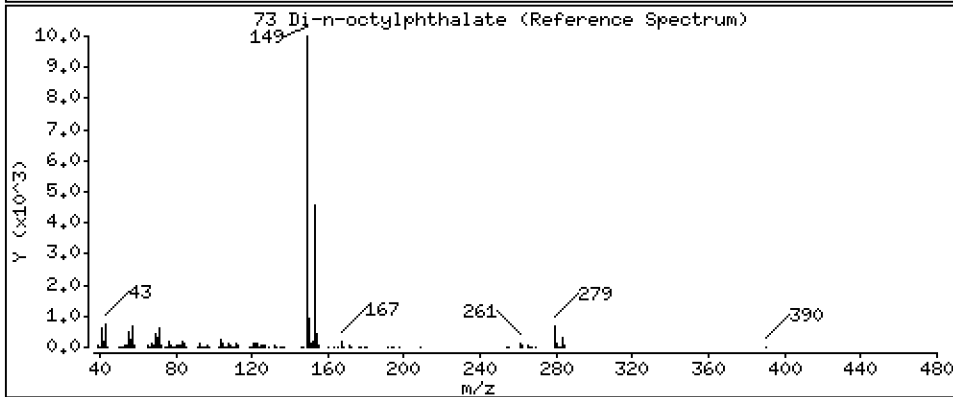
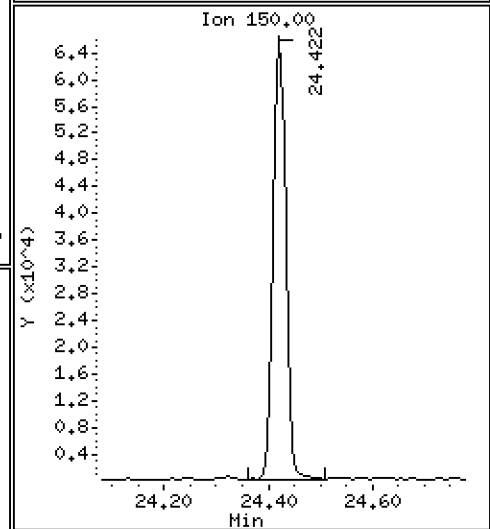
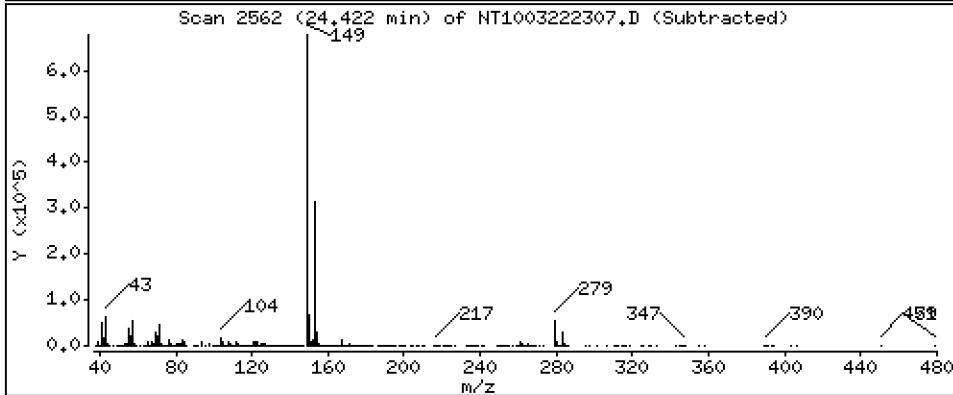
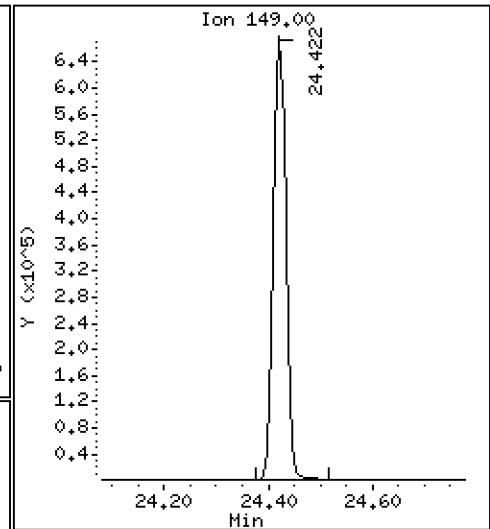
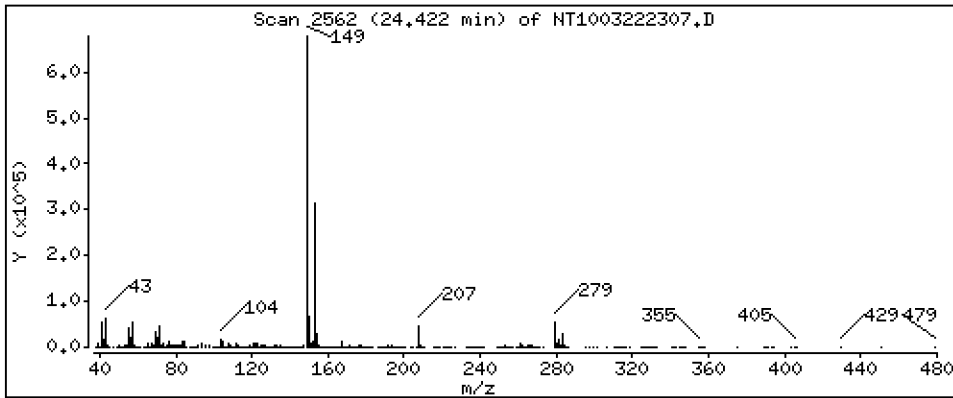
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 4,752 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

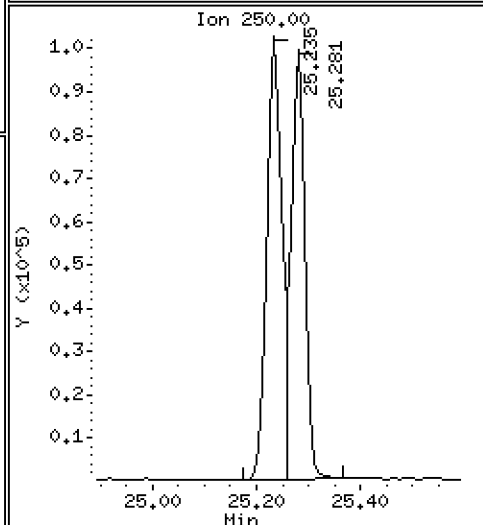
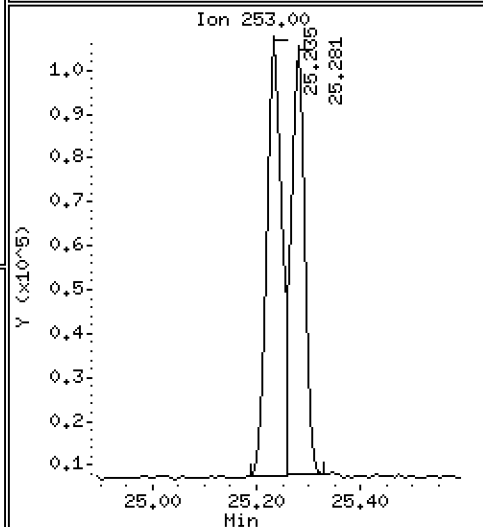
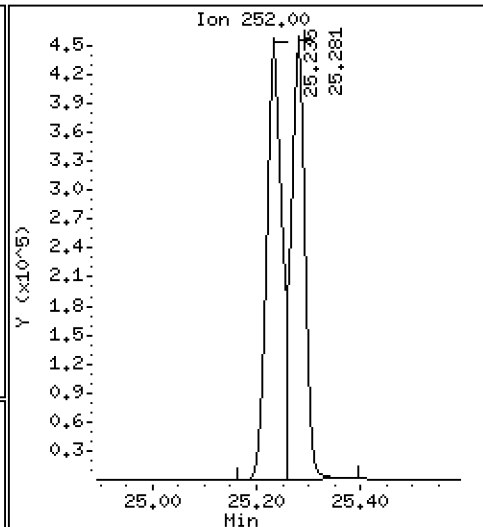
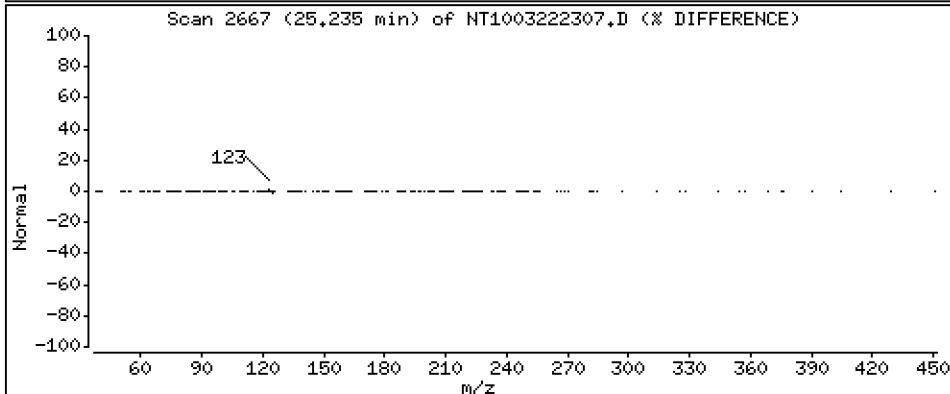
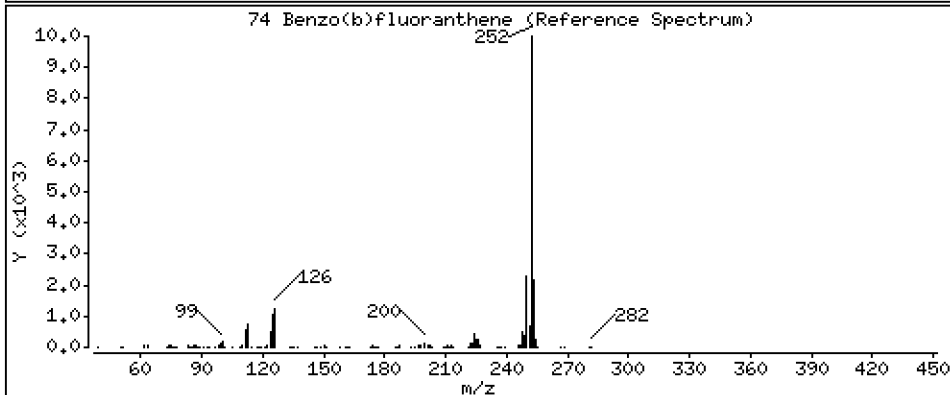
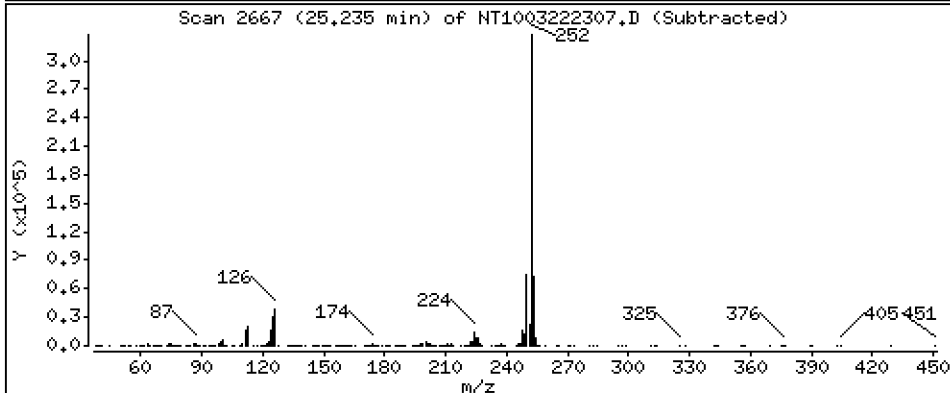
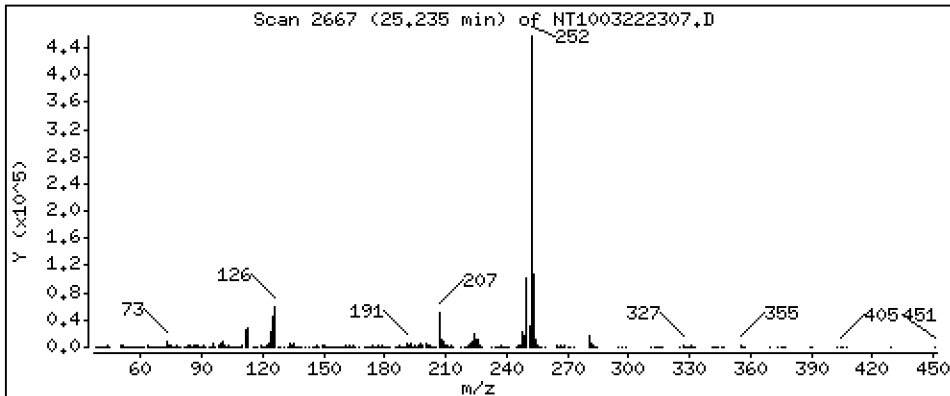
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 4,892 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

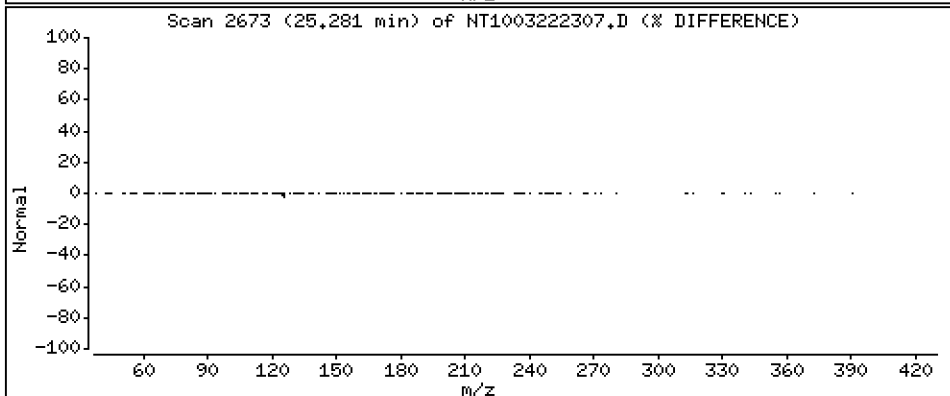
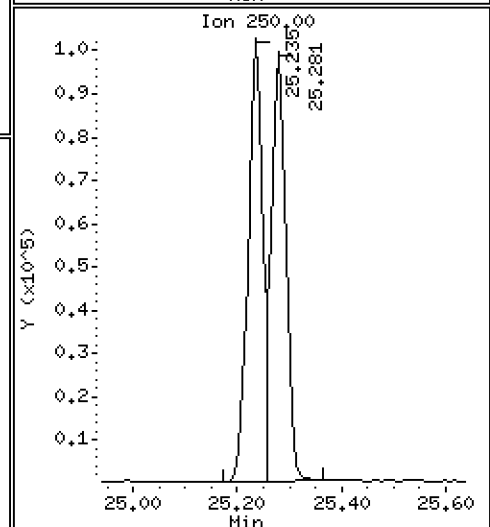
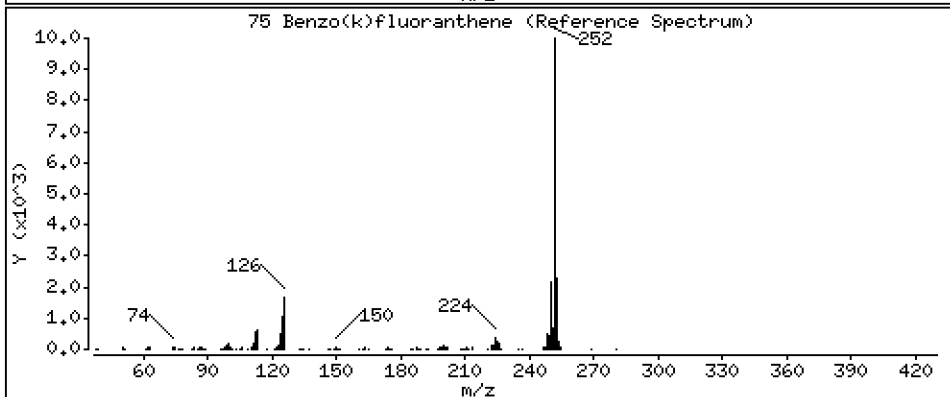
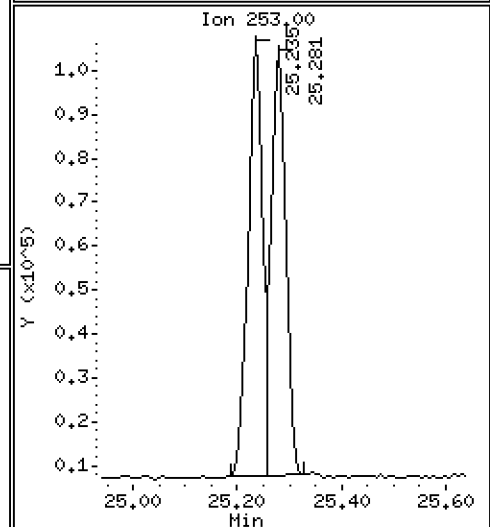
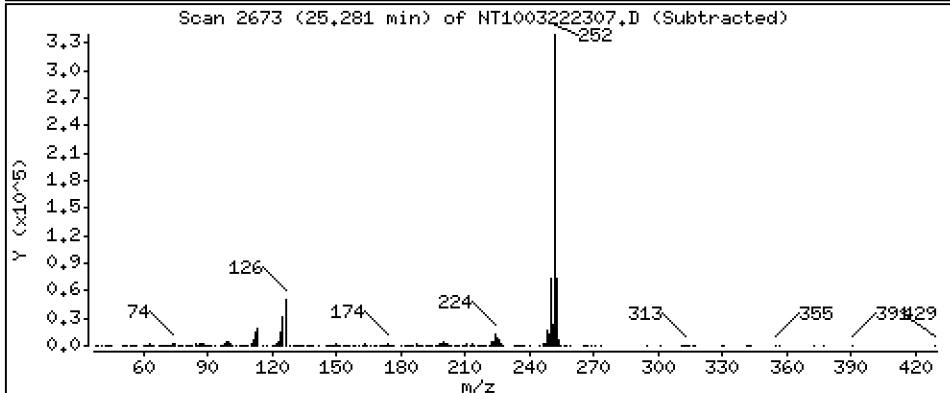
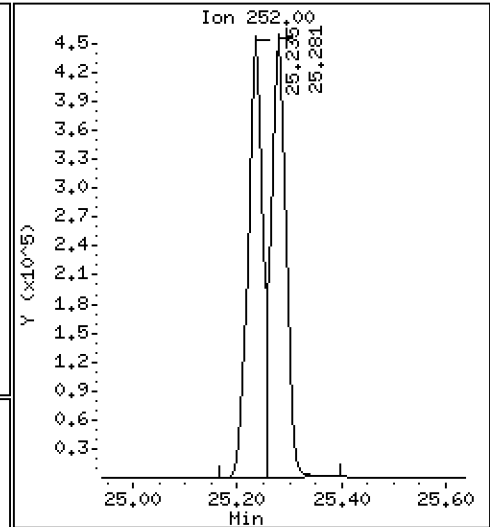
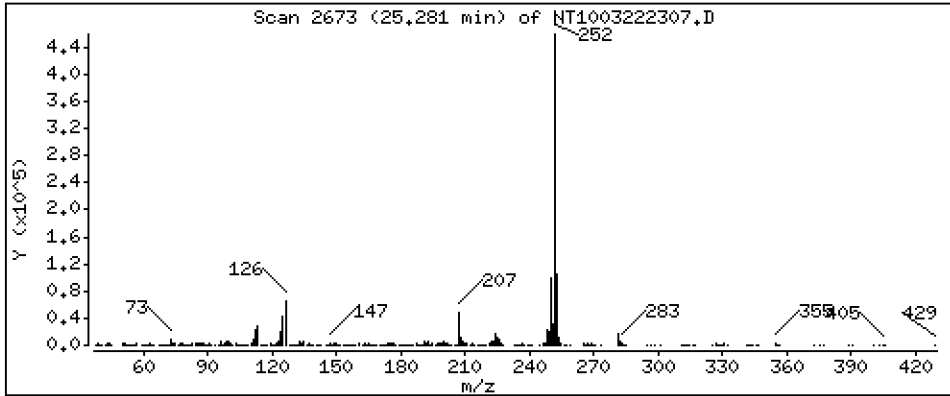
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 4,727 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

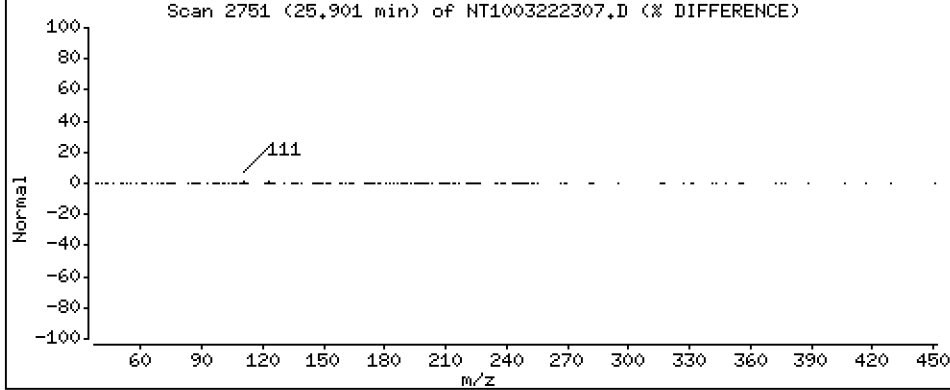
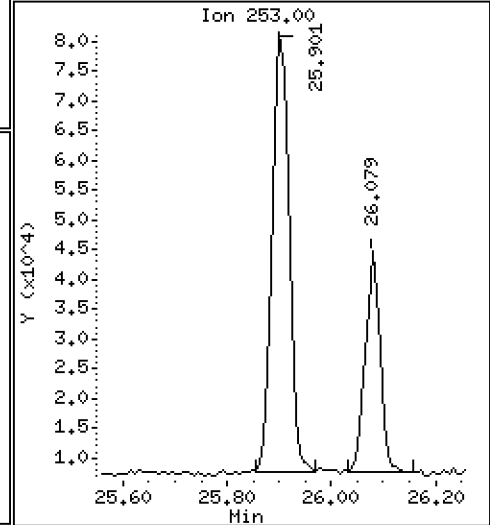
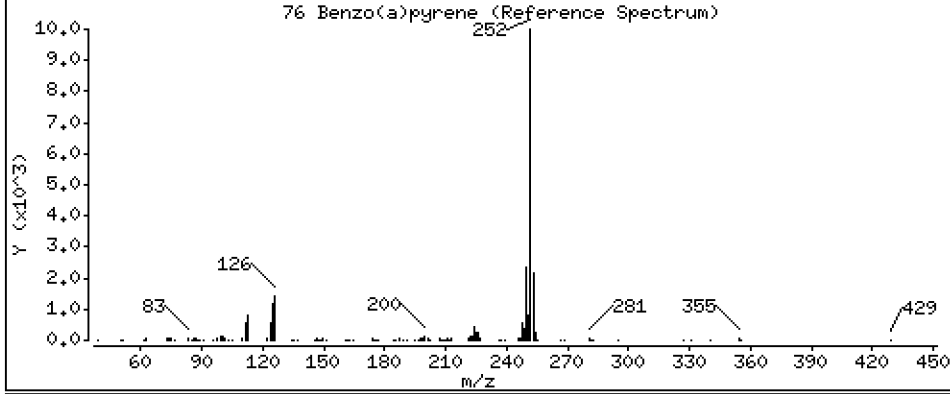
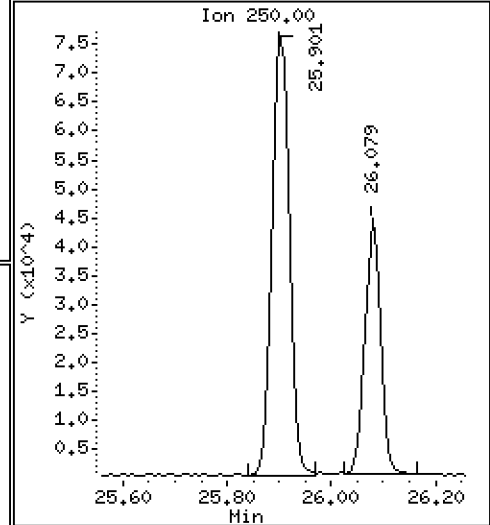
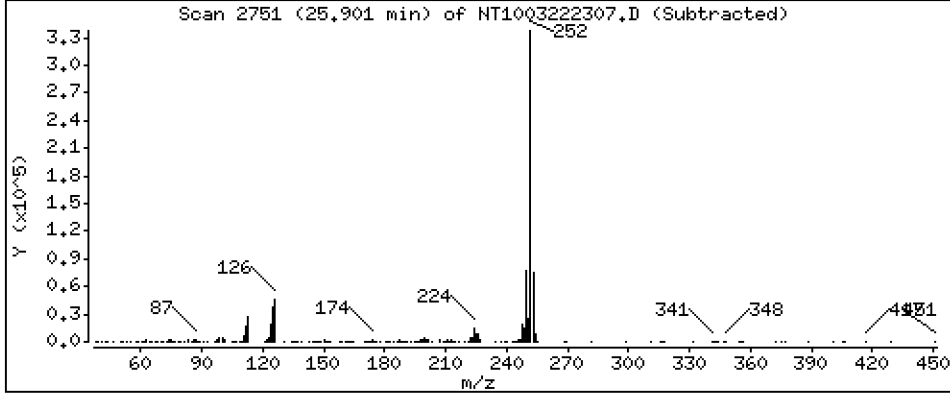
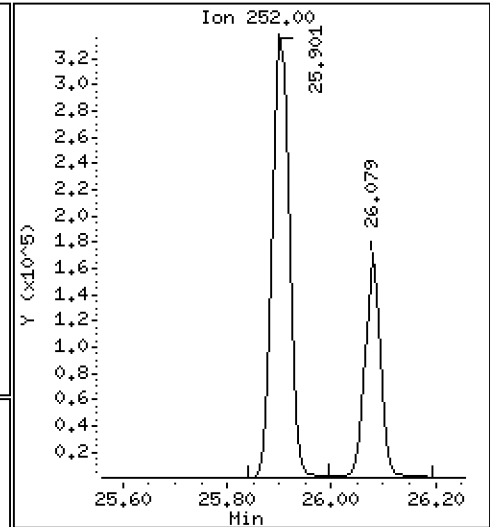
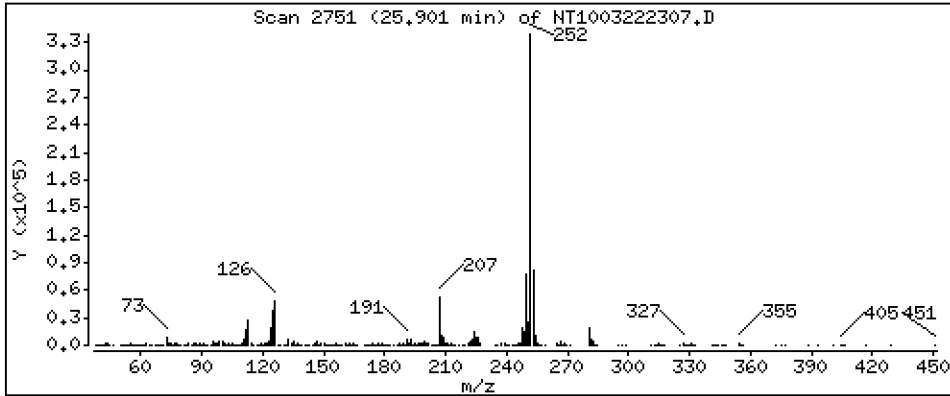
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 4,438 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

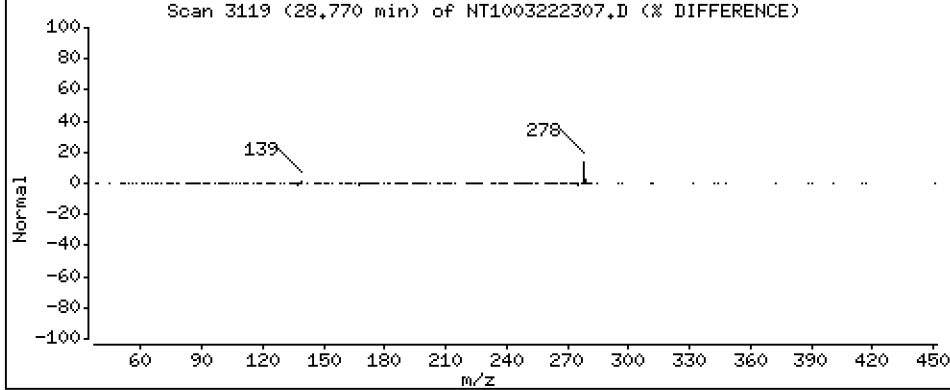
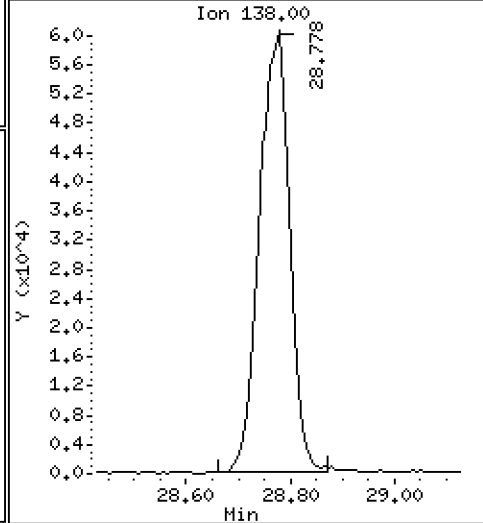
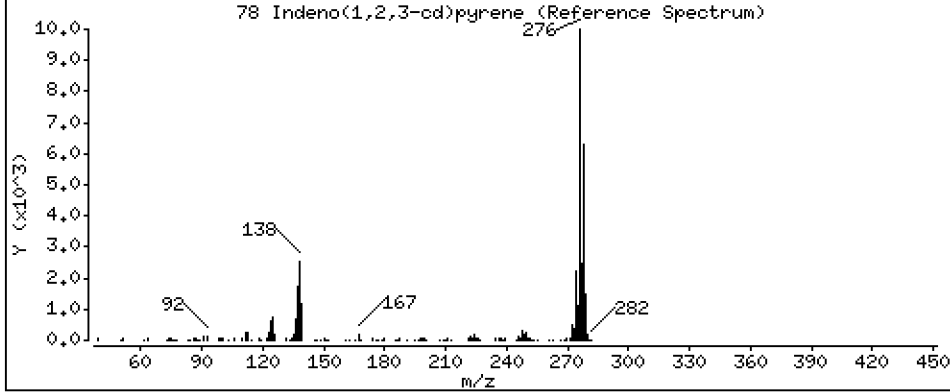
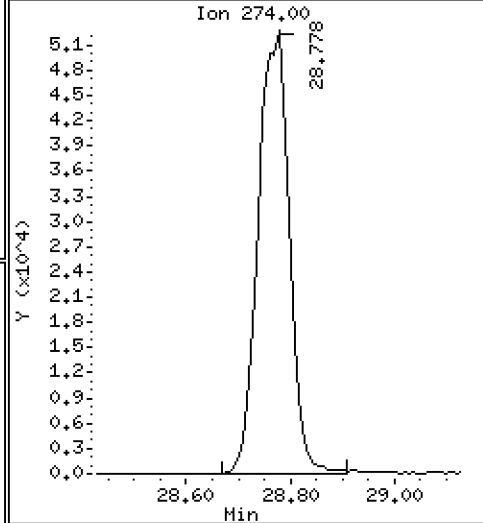
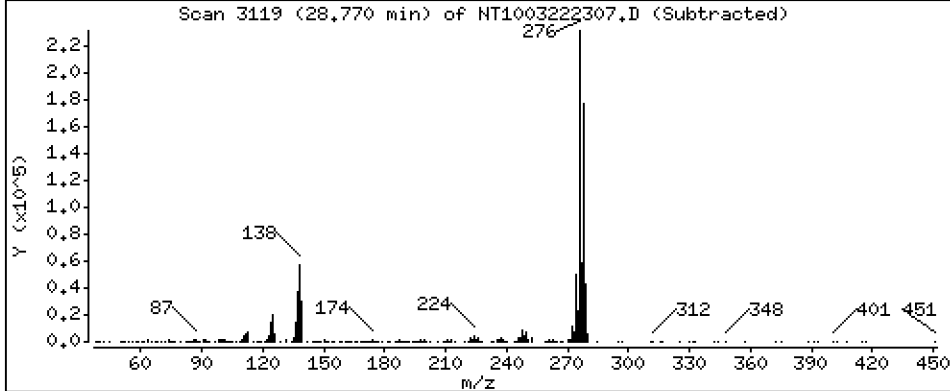
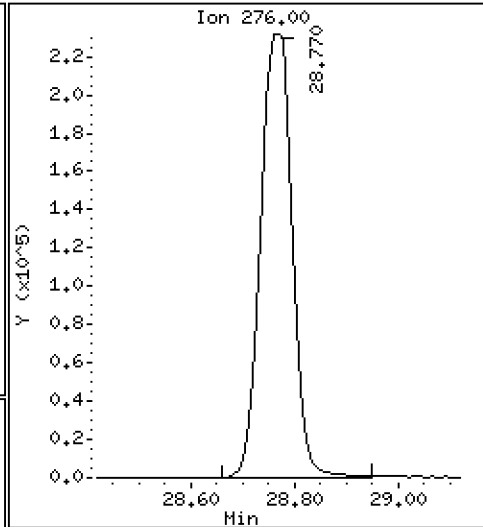
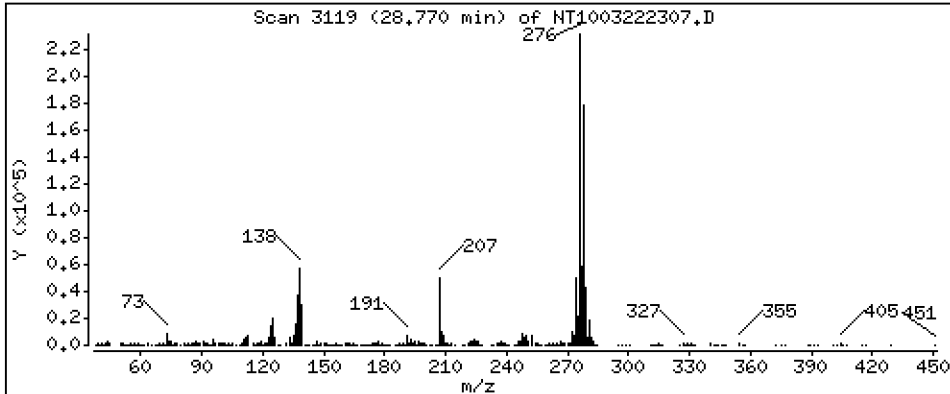
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 4,576 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

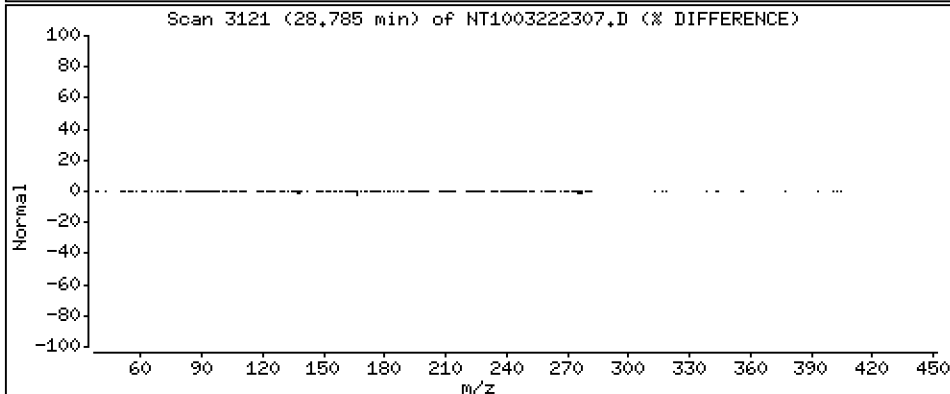
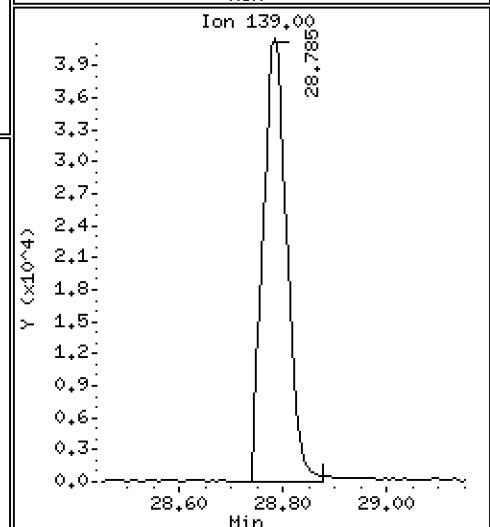
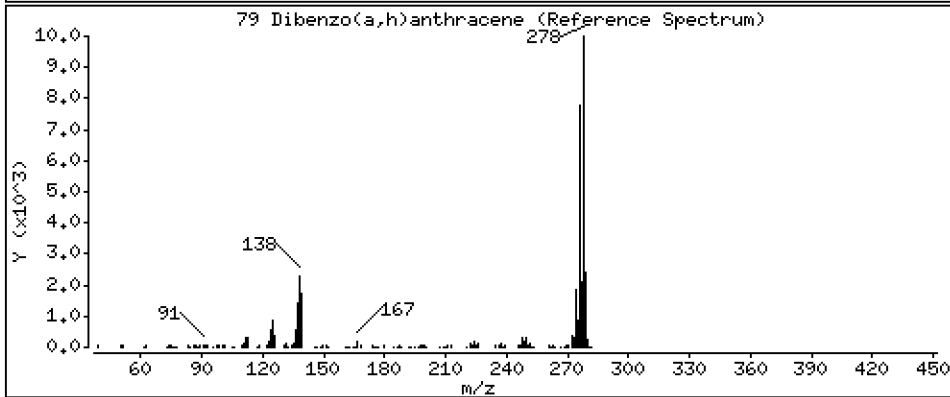
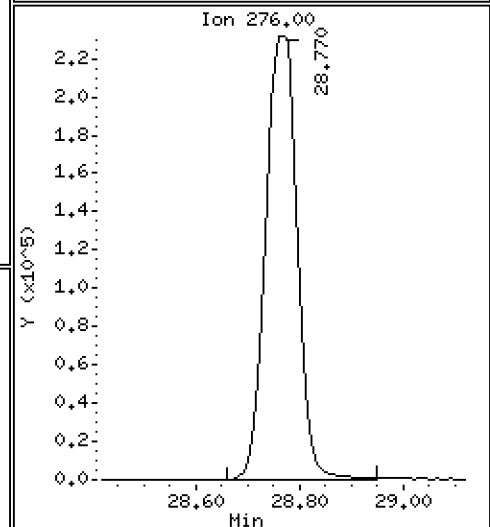
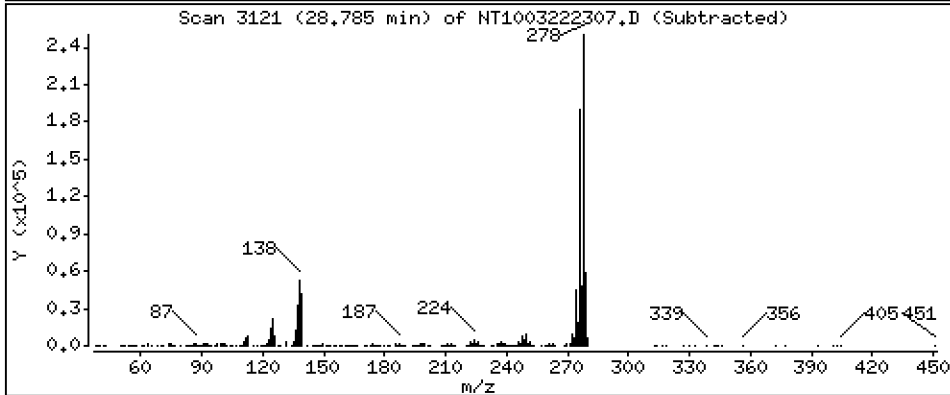
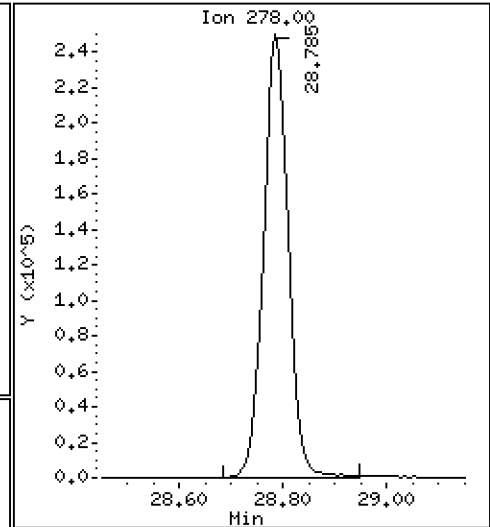
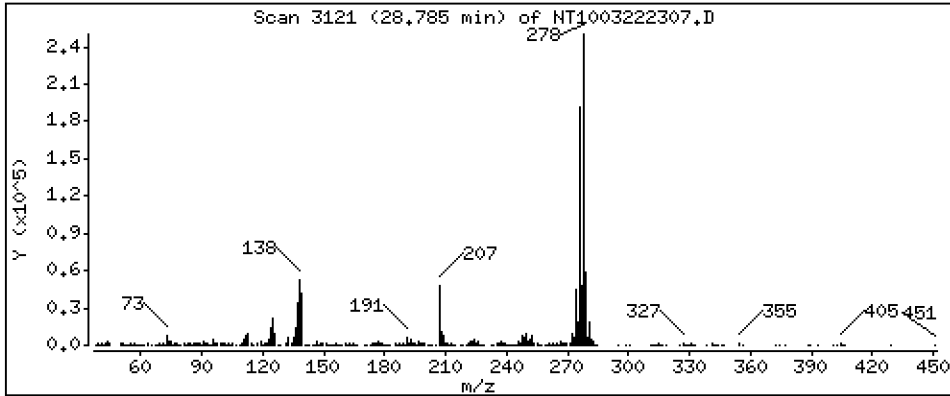
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 4,651 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

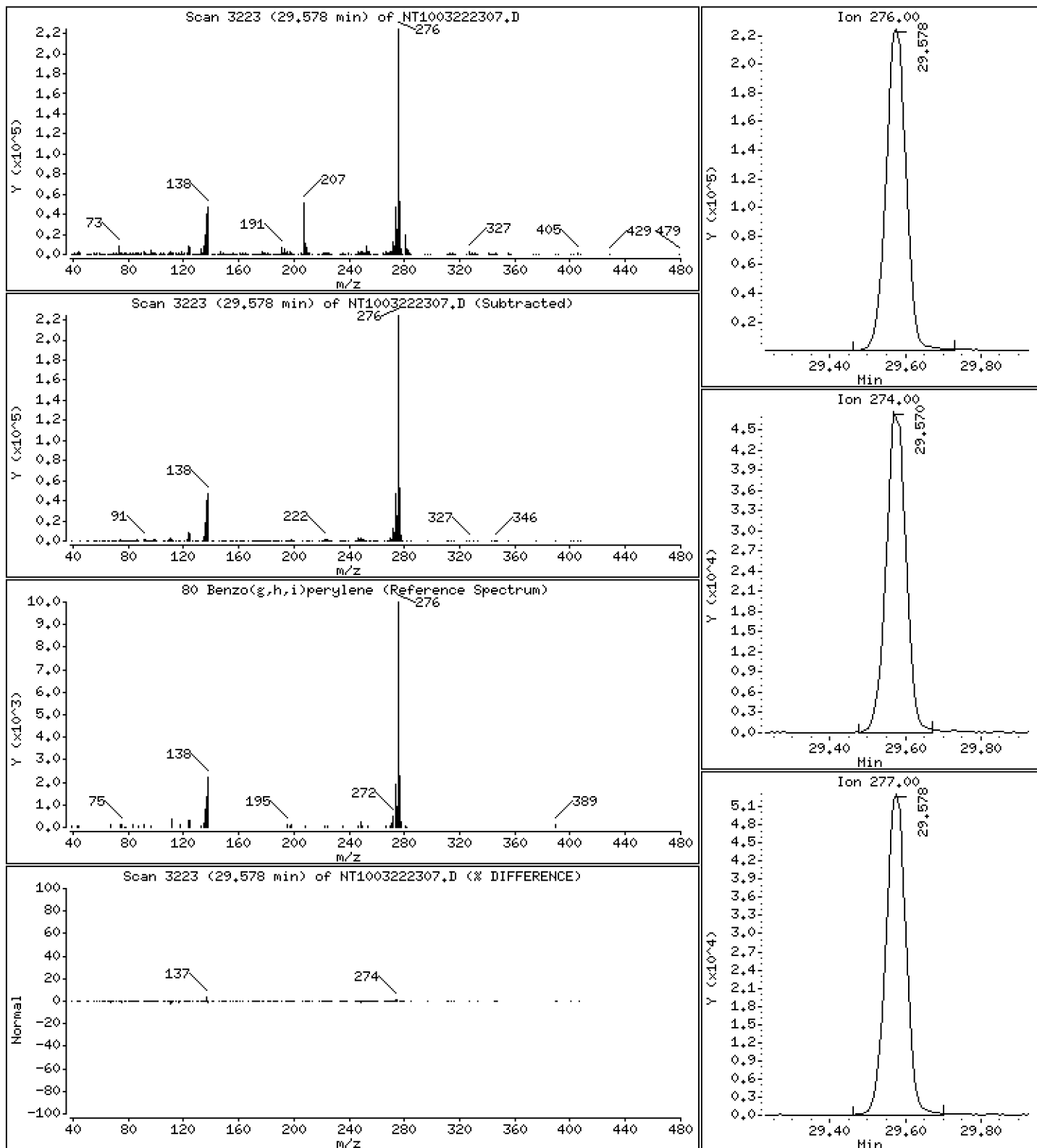
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 4,460 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

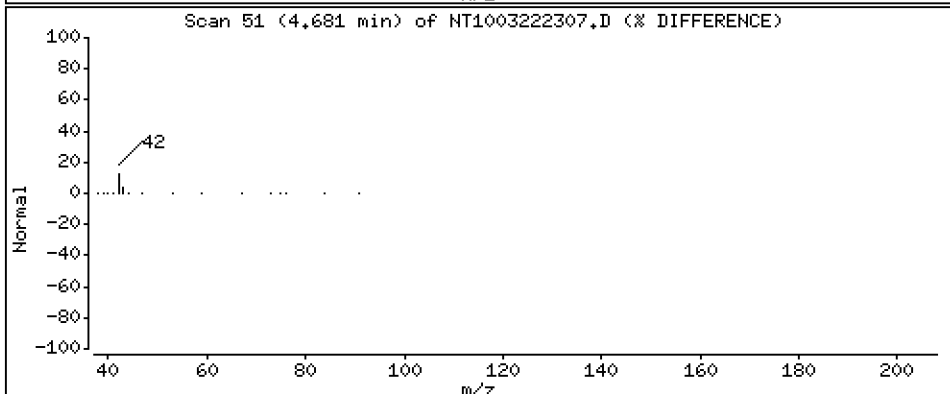
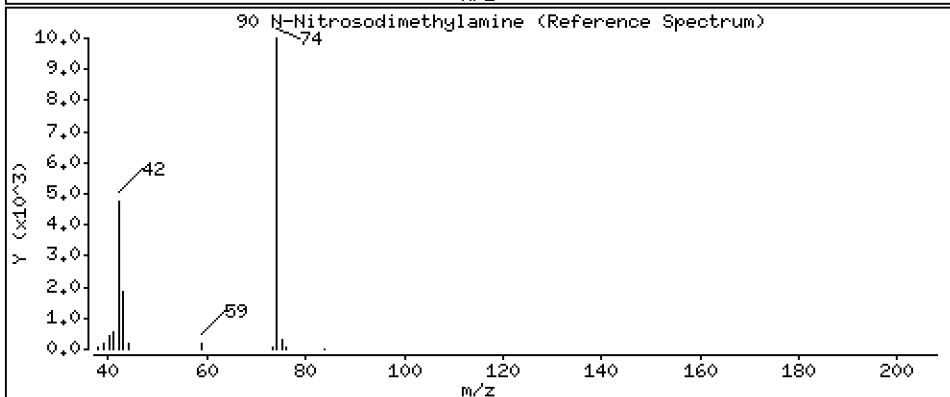
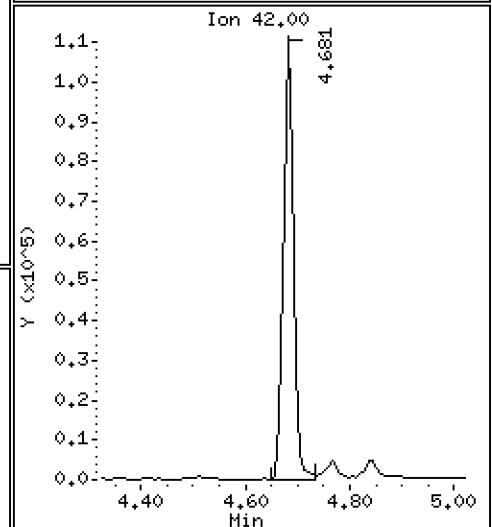
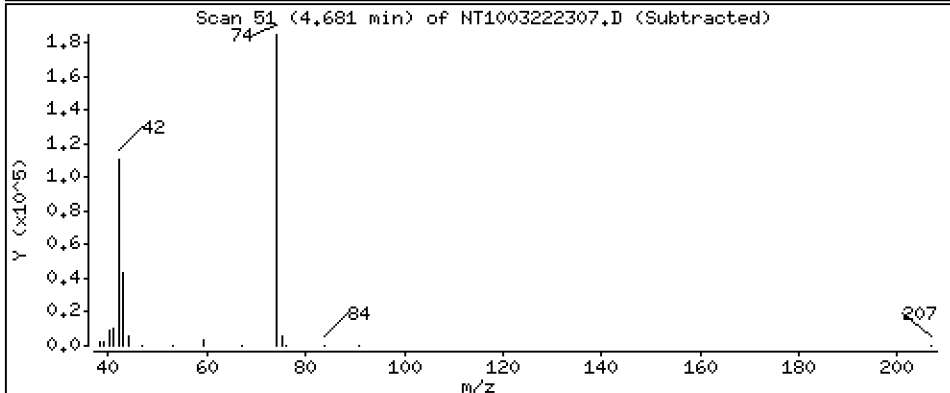
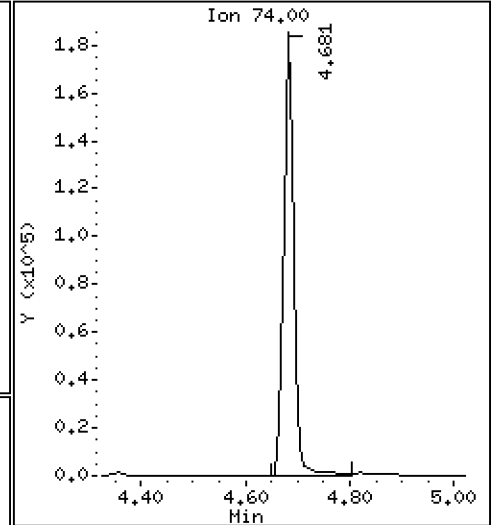
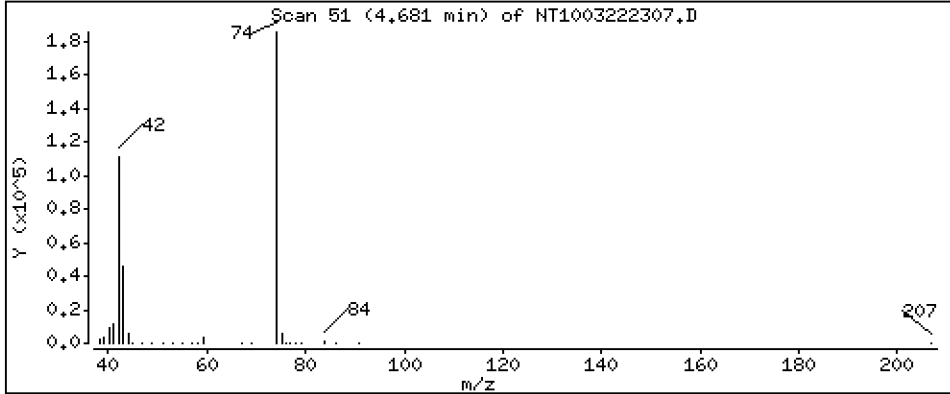
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

90 N-Nitrosodimethylamine

Concentration: 8,241 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

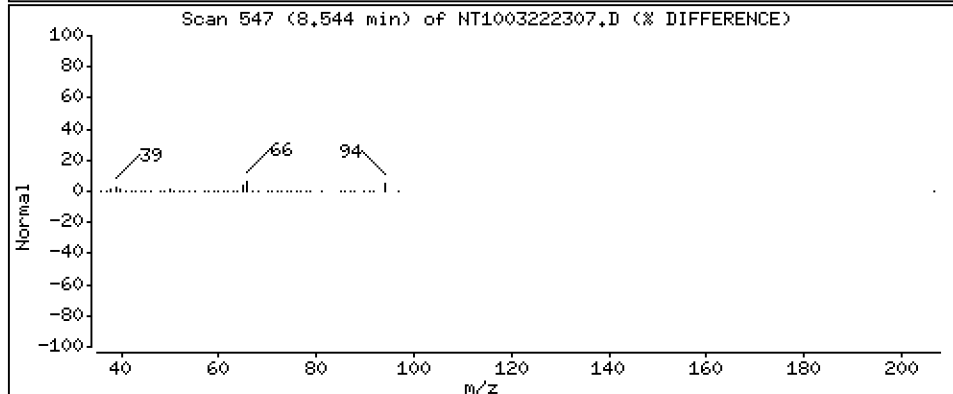
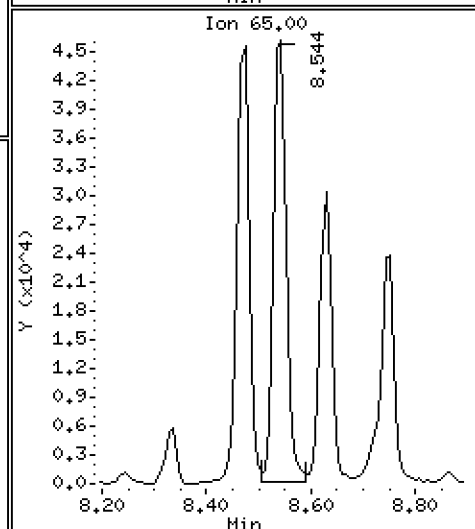
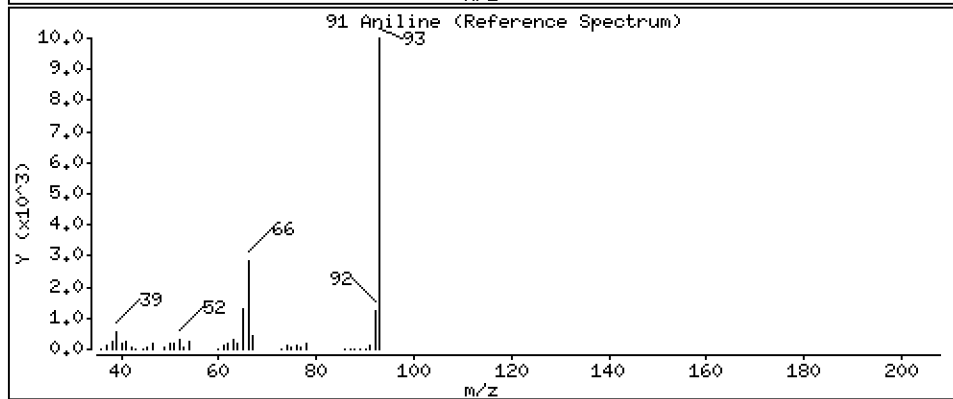
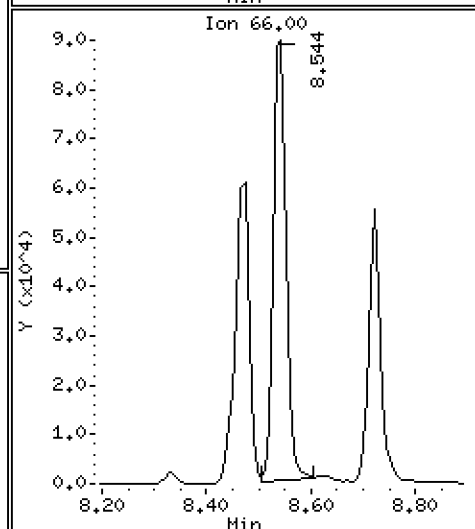
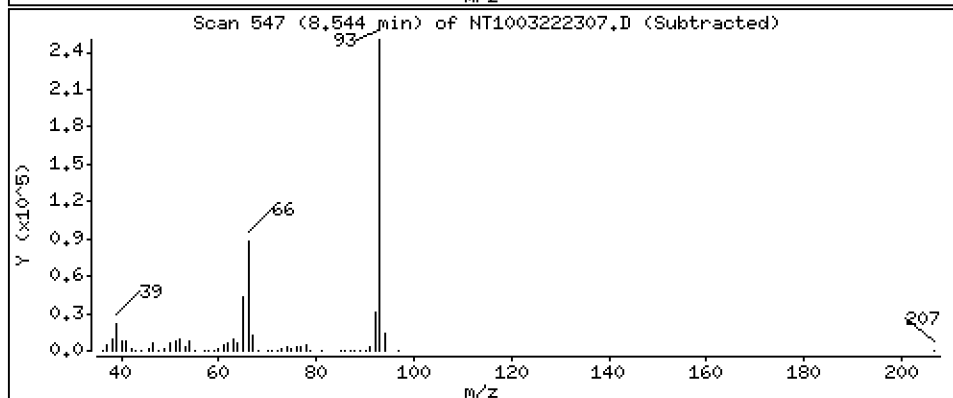
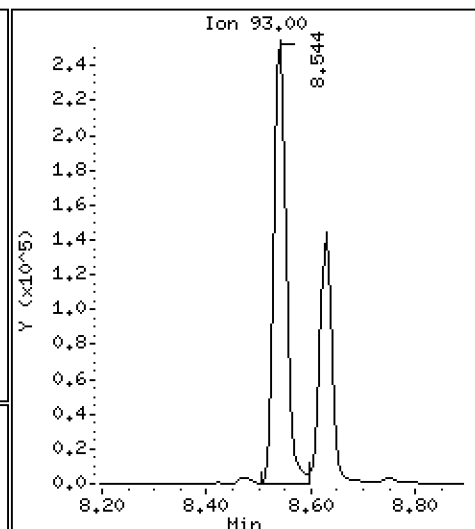
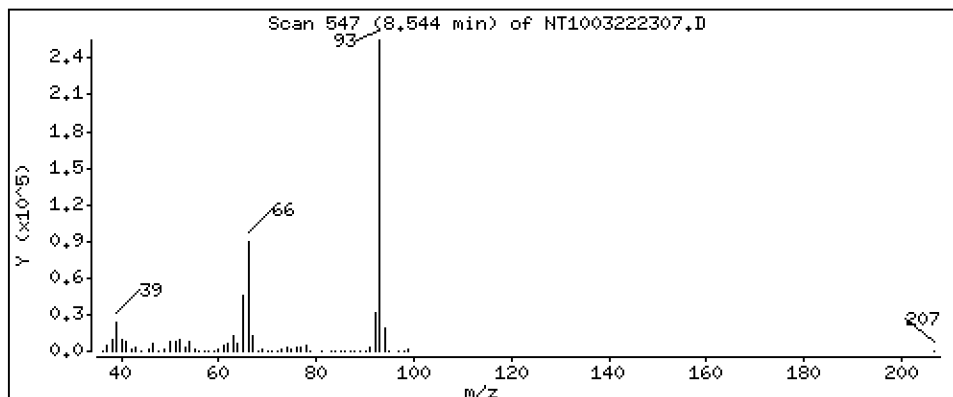
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

91 Aniline

Concentration: 6,127 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

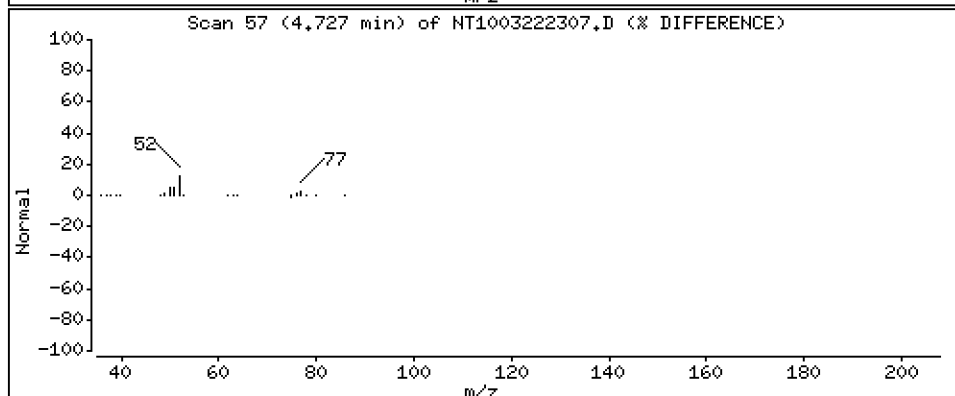
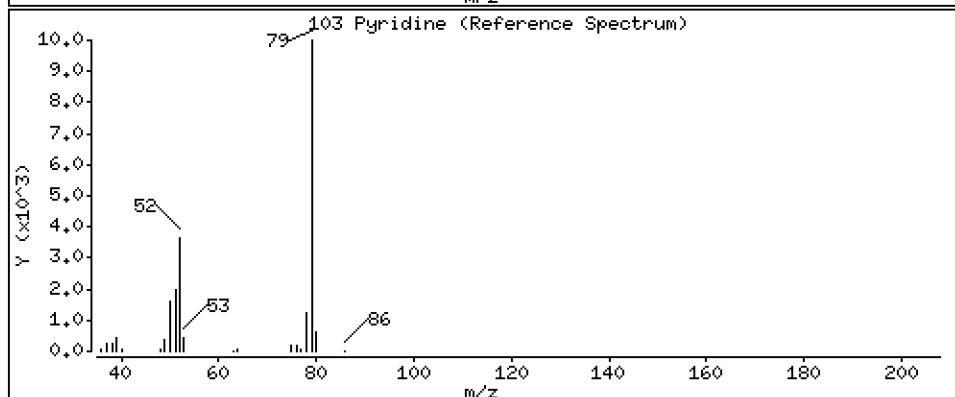
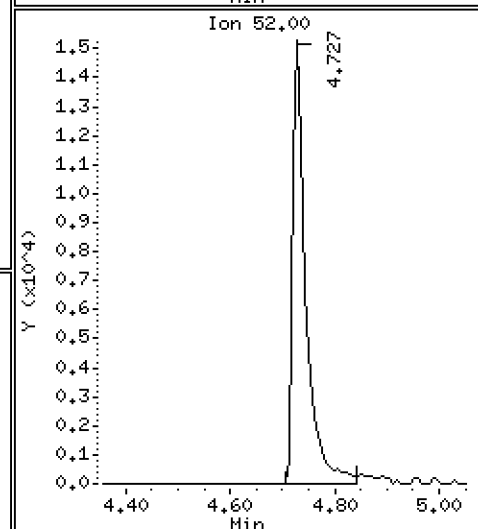
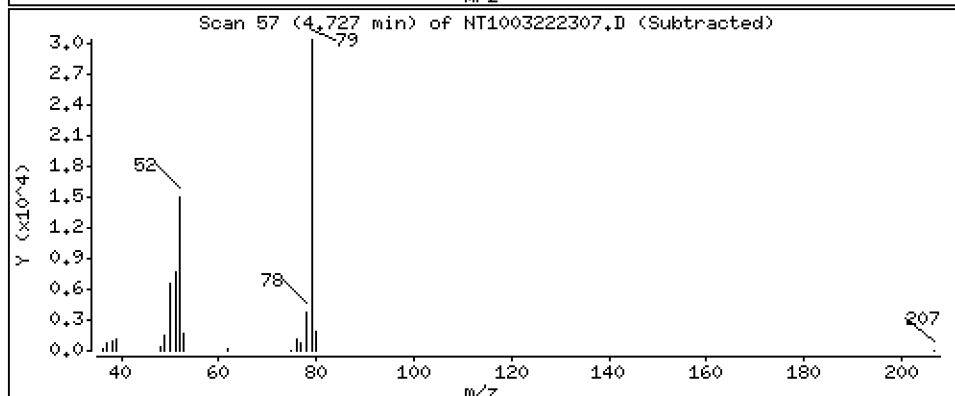
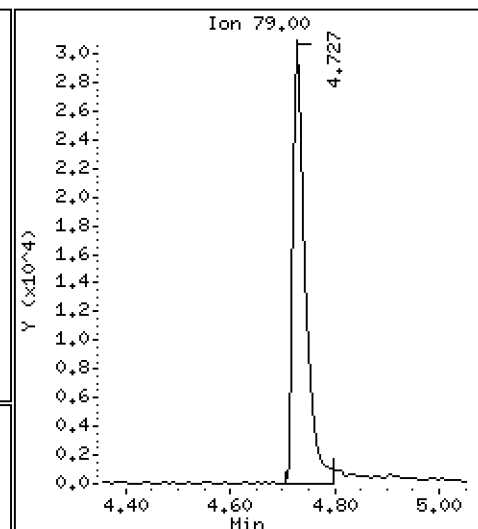
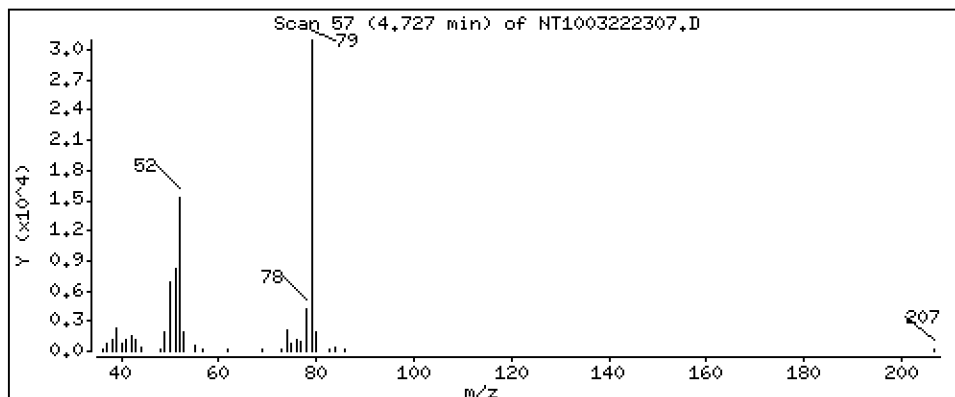
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

103 Pyridine

Concentration: 1,164 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

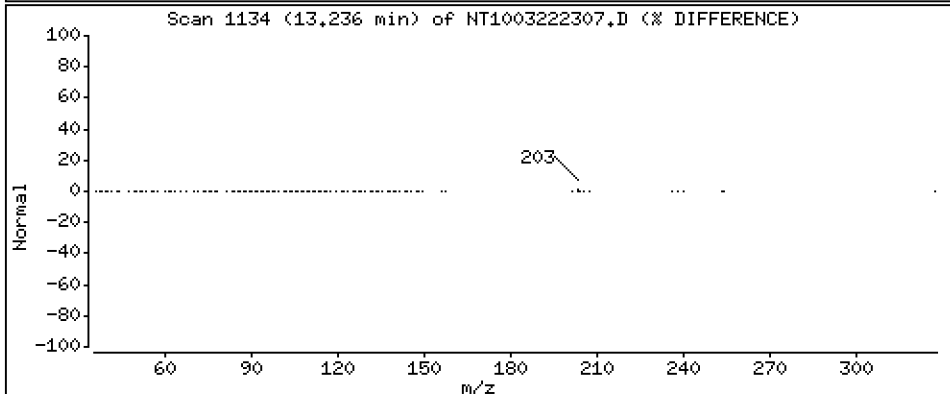
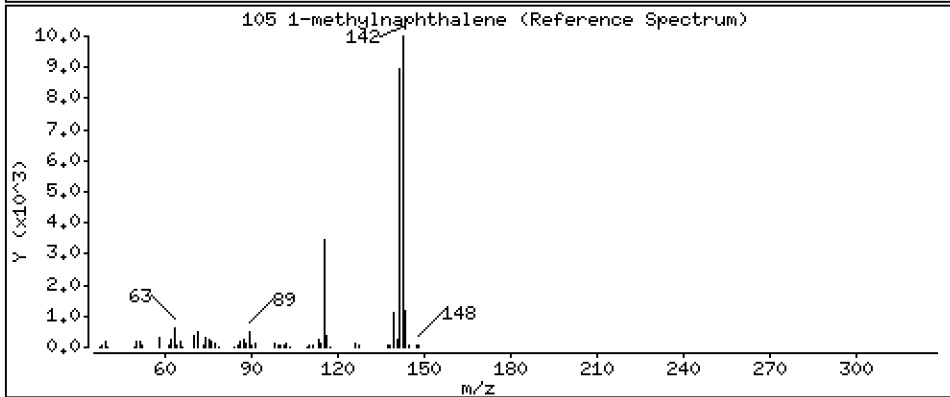
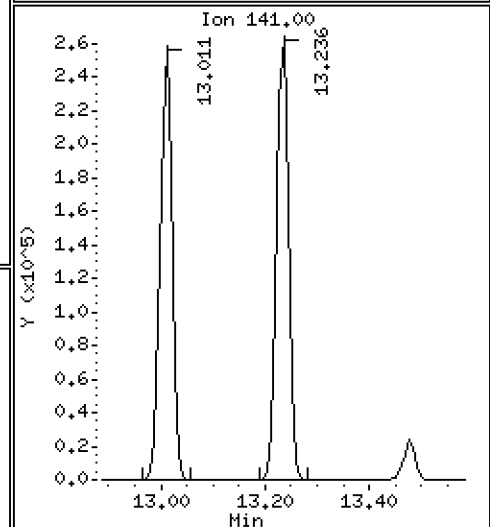
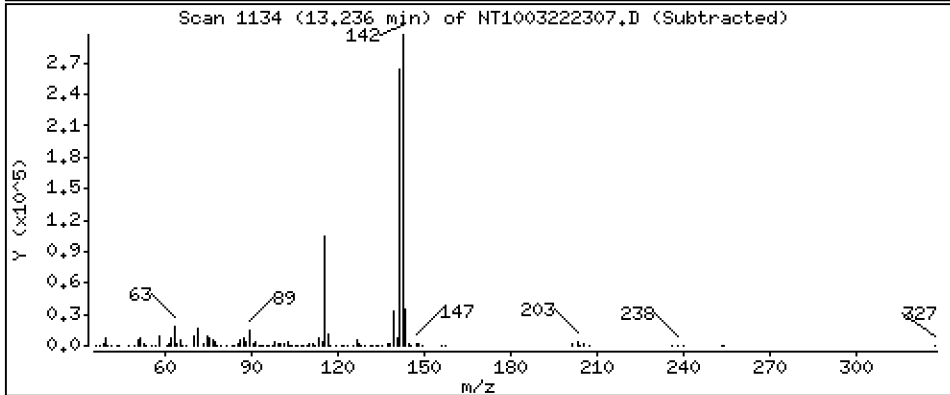
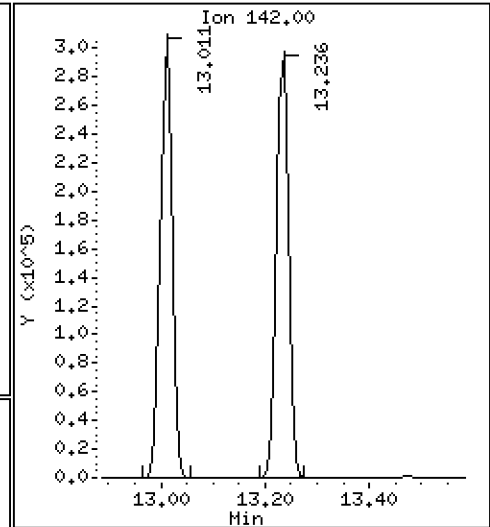
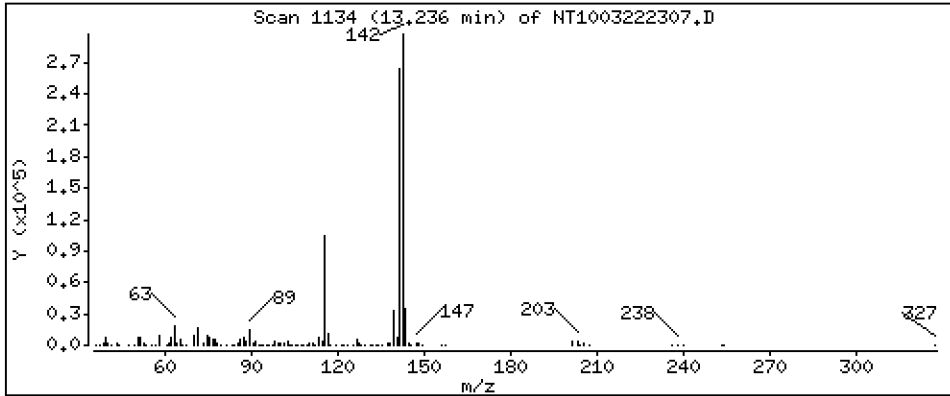
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 4,541 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

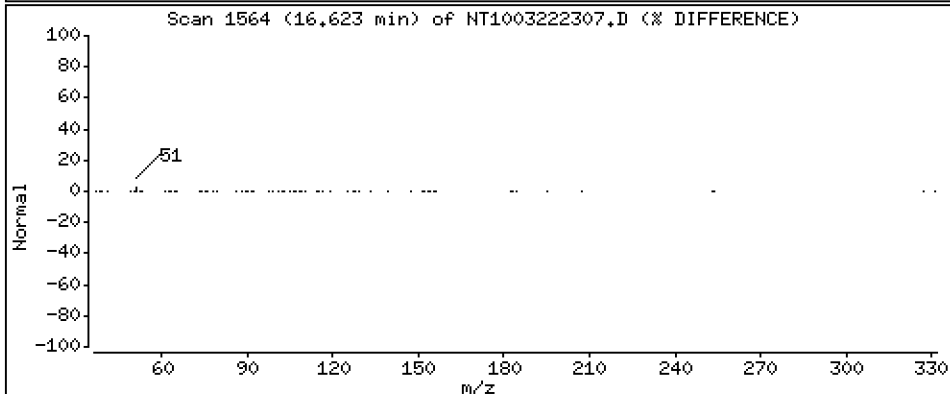
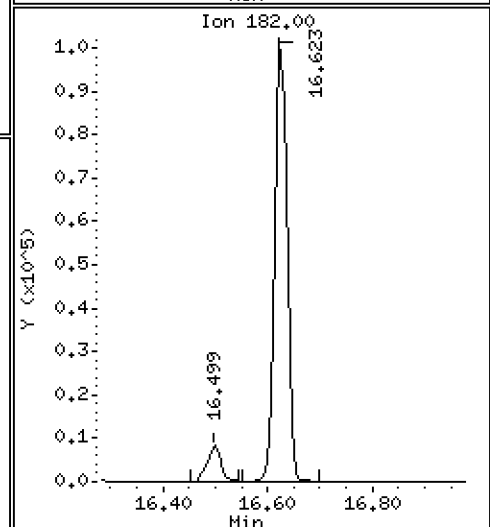
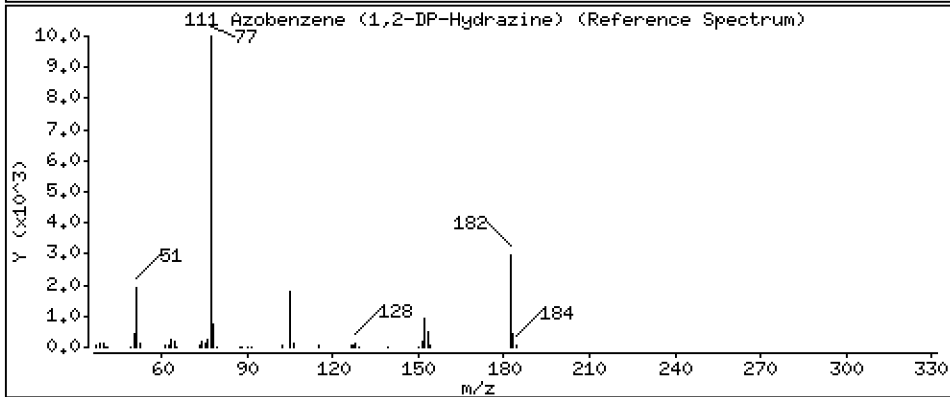
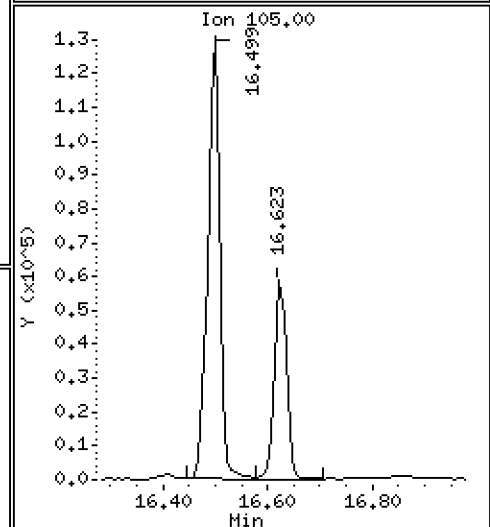
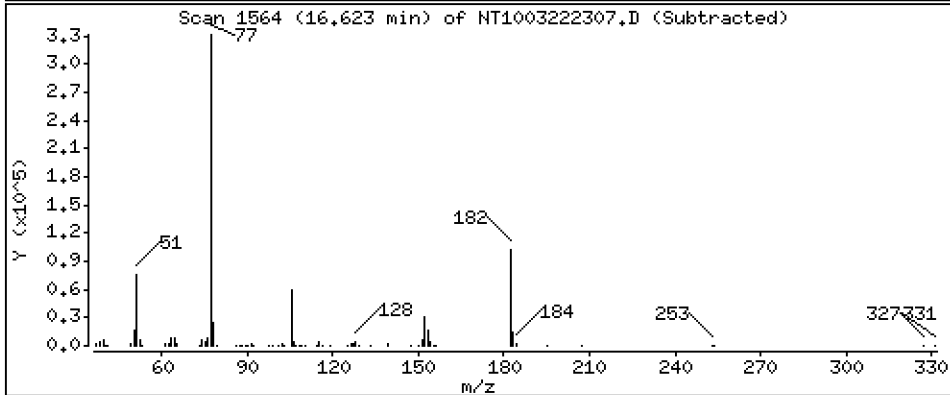
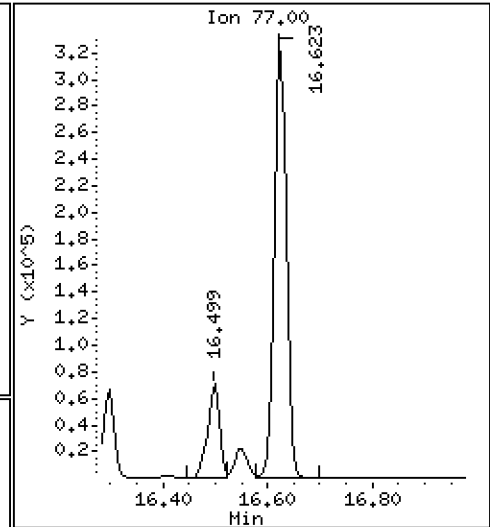
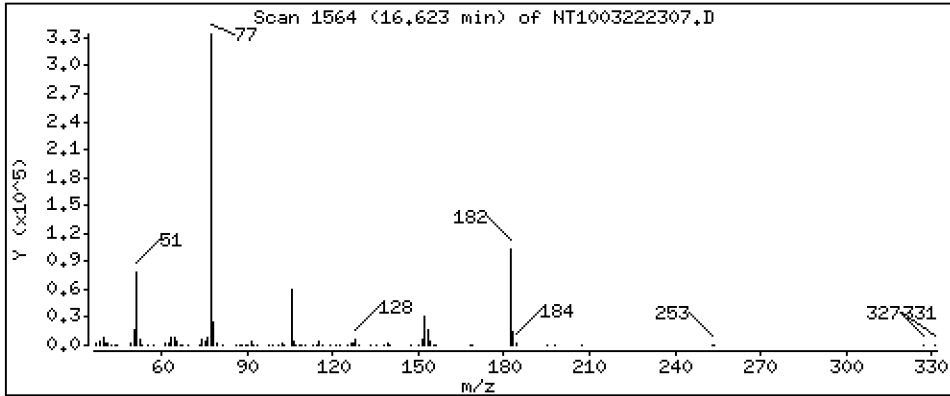
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 4.190 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

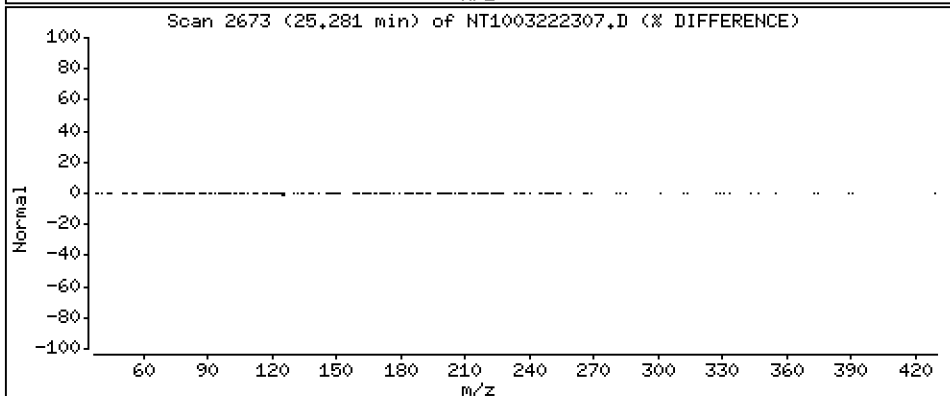
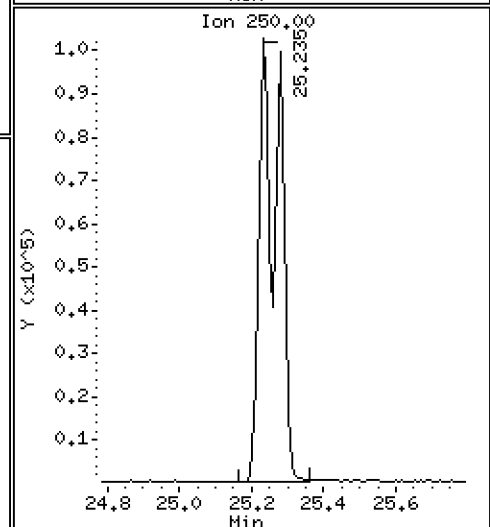
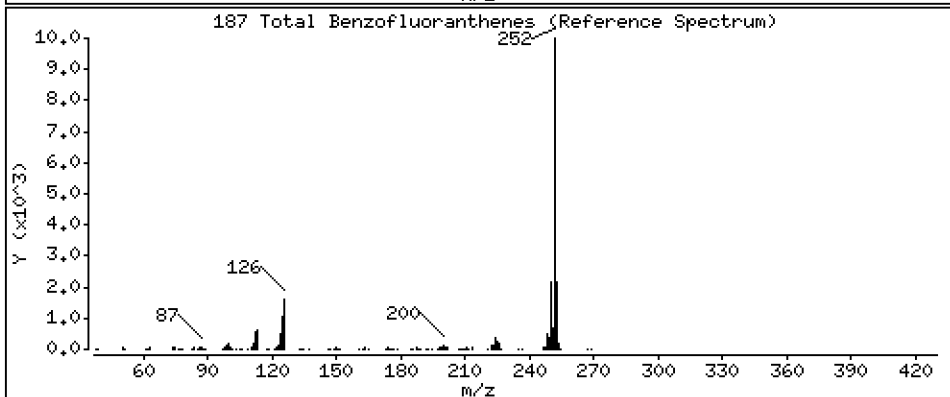
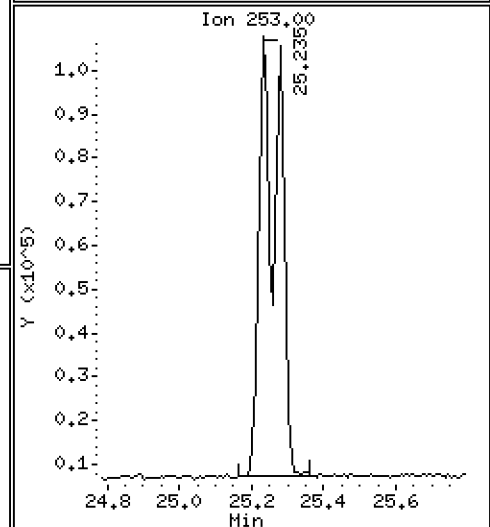
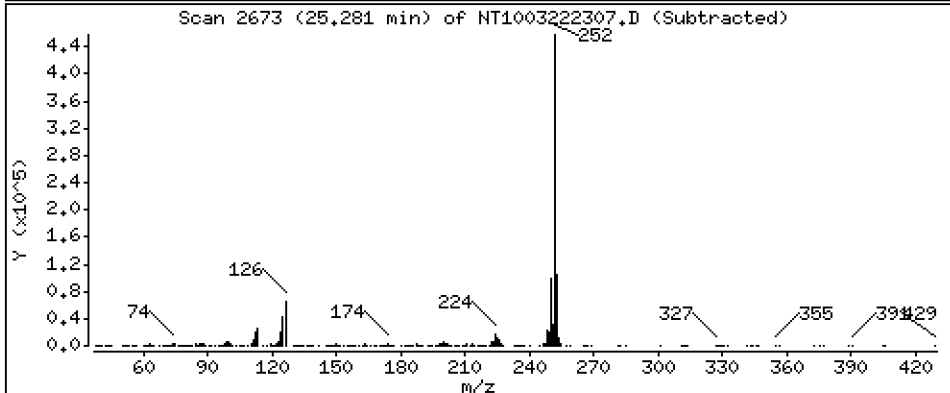
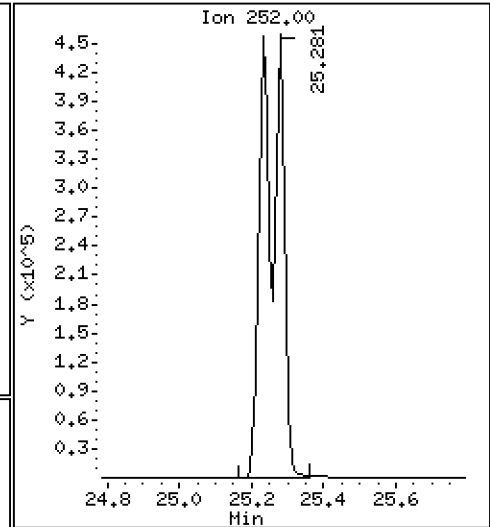
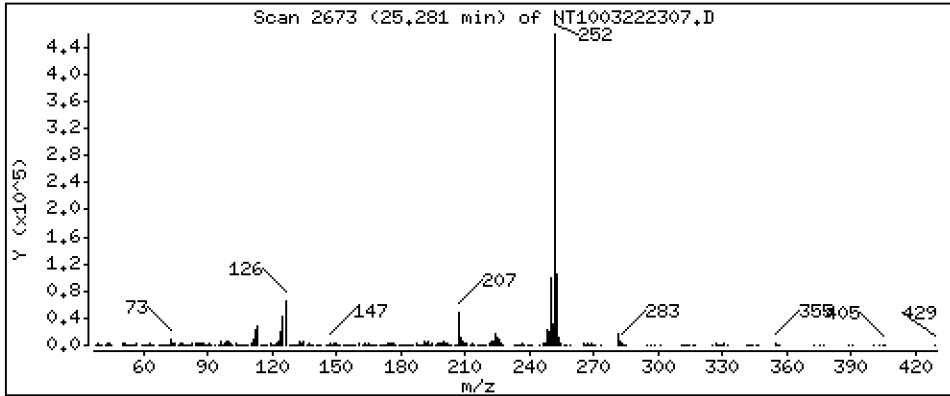
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 9,586 ug/mL



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

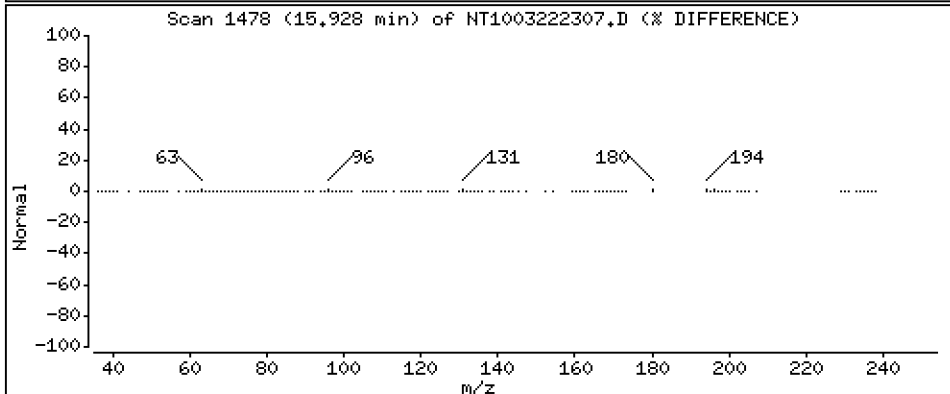
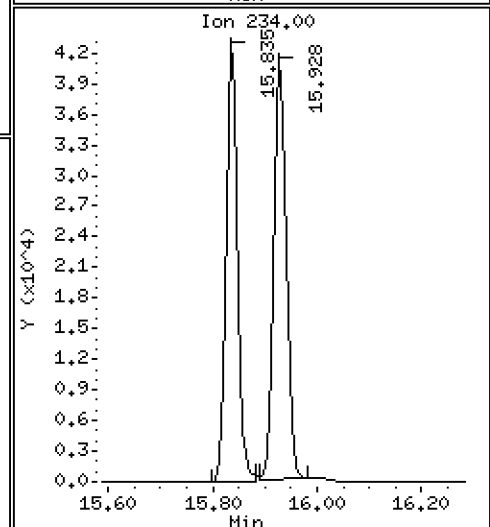
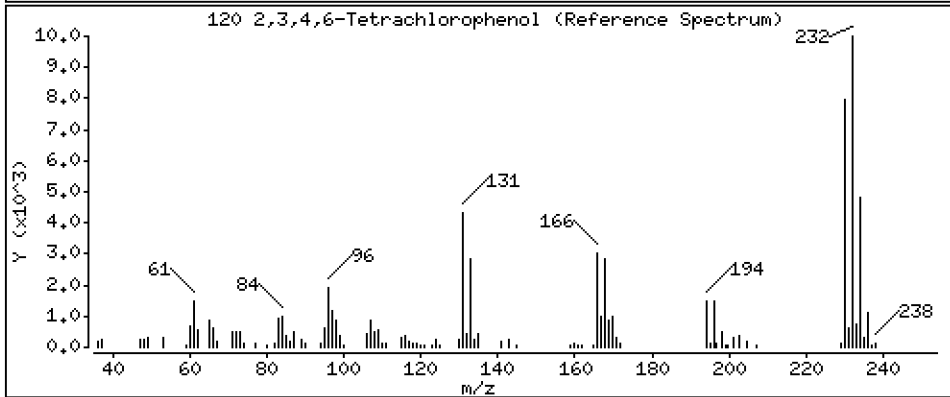
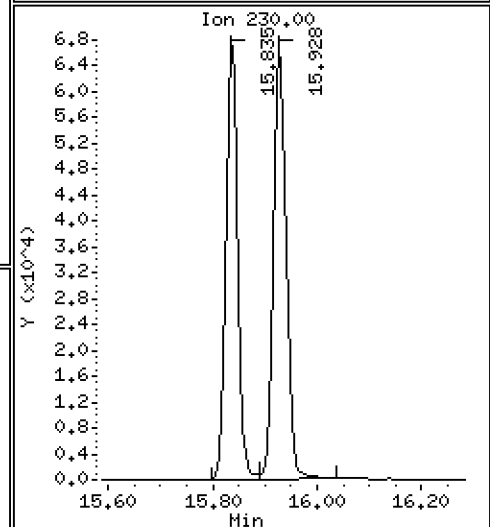
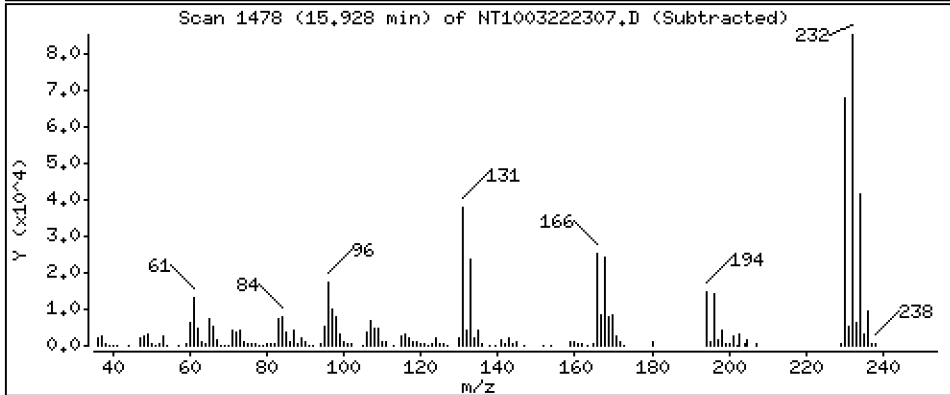
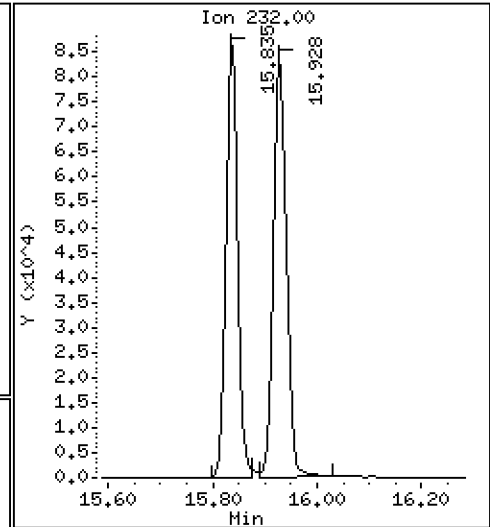
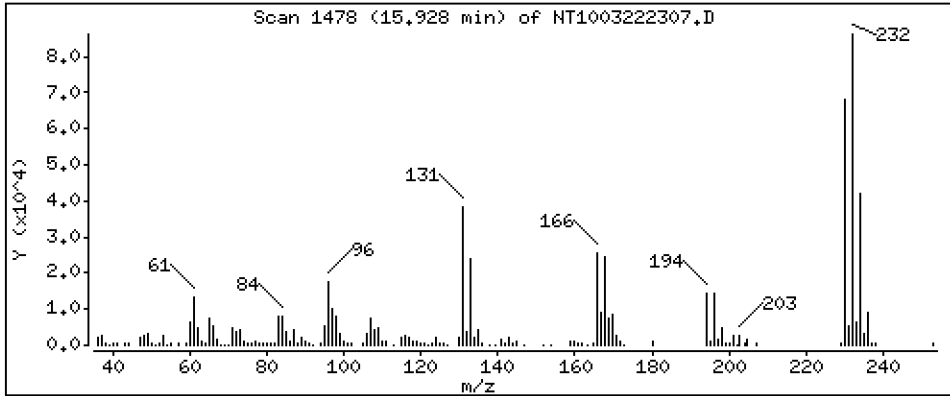
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

120 2,3,4,6-Tetrachlorophenol

Concentration: 4,635 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

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

Inst ID: nt10.i

Quant Type: ISTD
 Cal File: NT10031508.D

Compound Sublist: ICAL.sub

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

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

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

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

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

Test Mode:
 Use Last Continuing Calibrator.

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

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

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

REVIEW SUMMARY FOR FILE - NT1003222307.D

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

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

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

NONE

RRT check based on Ccal File: NT1003222302.D

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

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

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

Date: 23-MAR-2023 21:32

Client ID:

Sample Info: BLC0442-BSM1

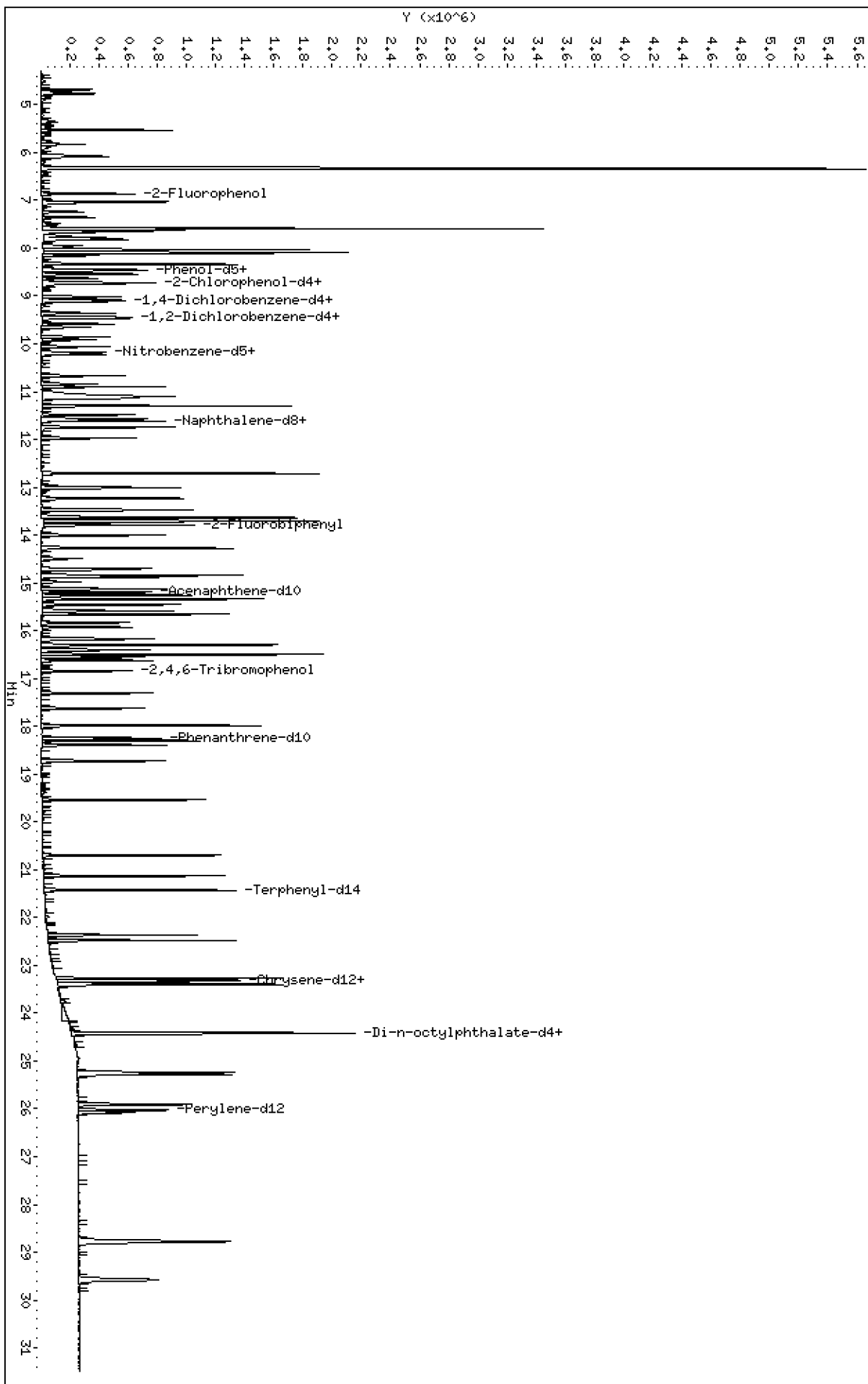
Column phase: ZB-5msi

Instrument: nt10.1

Operator: VTS

Column diameter: 0.25

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



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

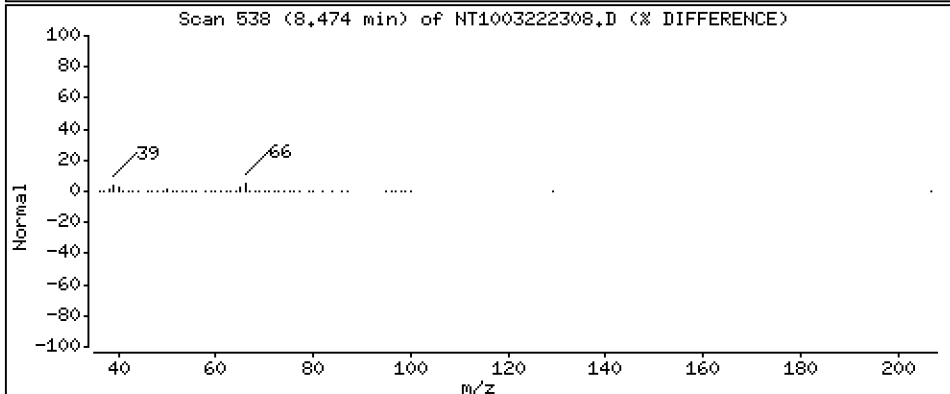
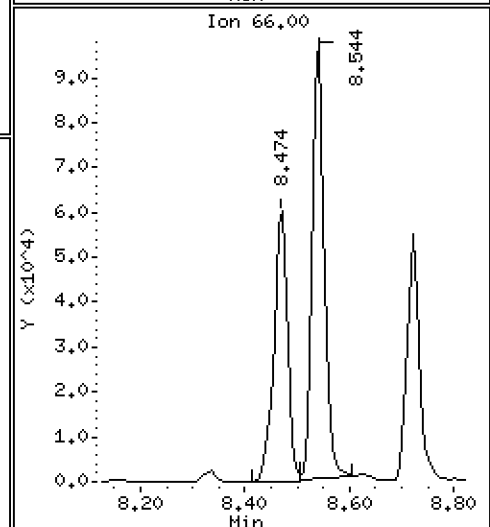
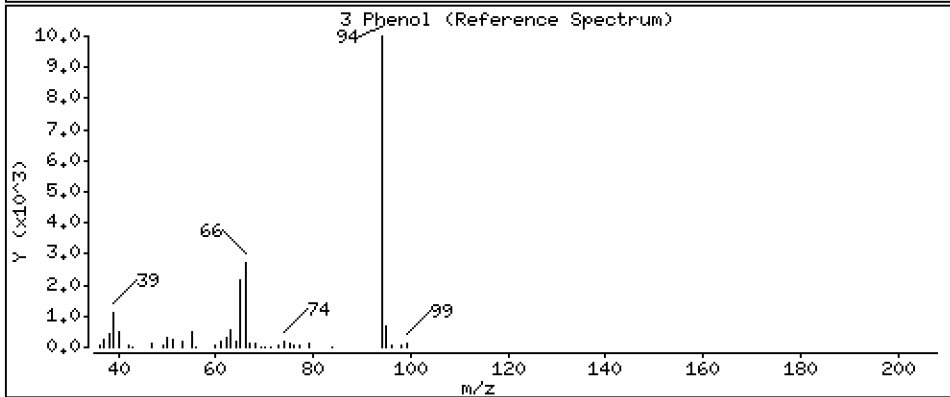
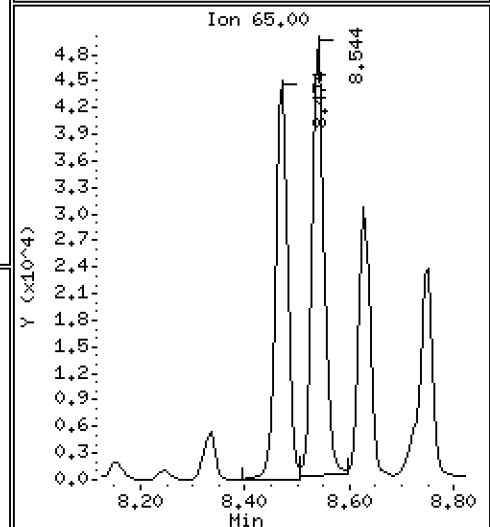
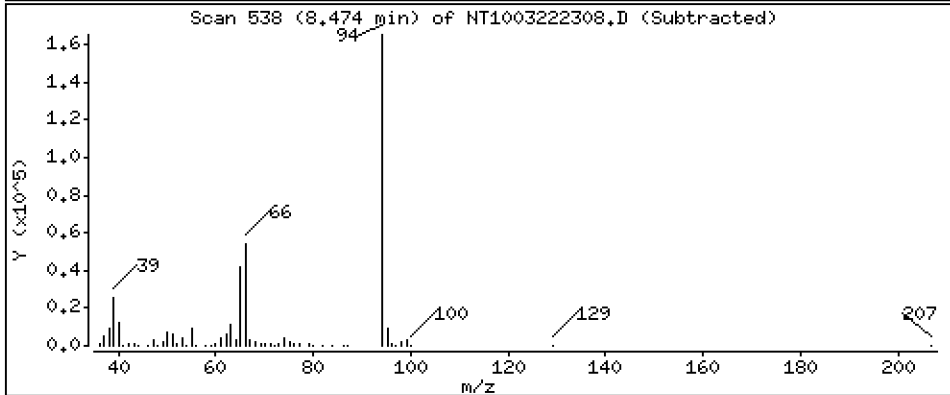
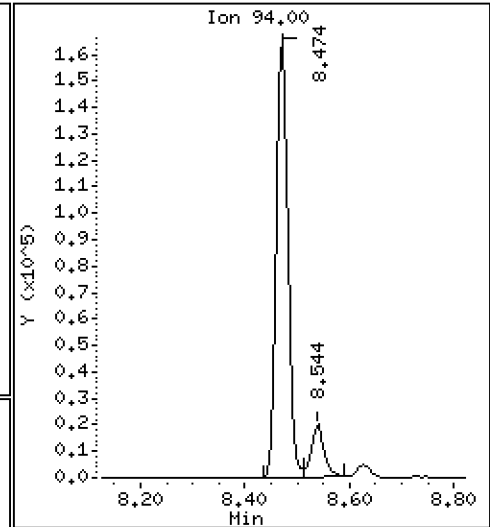
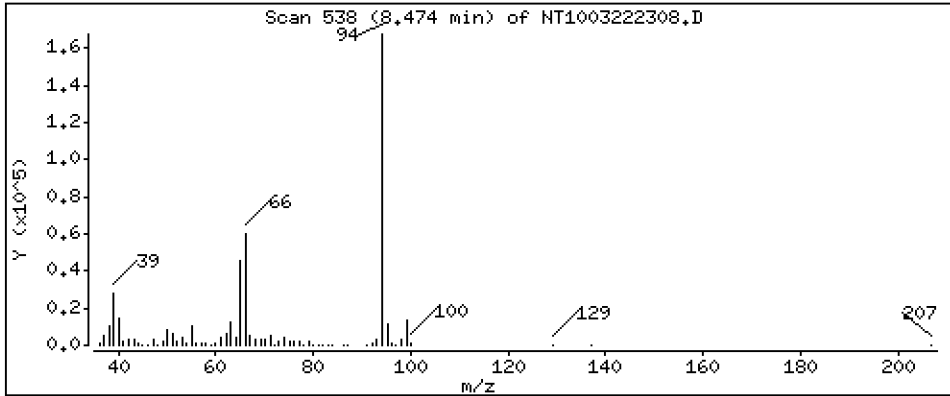
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 3,842 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

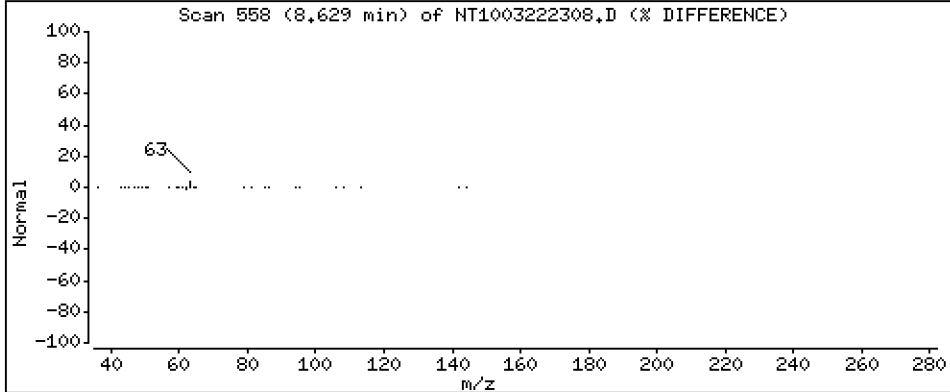
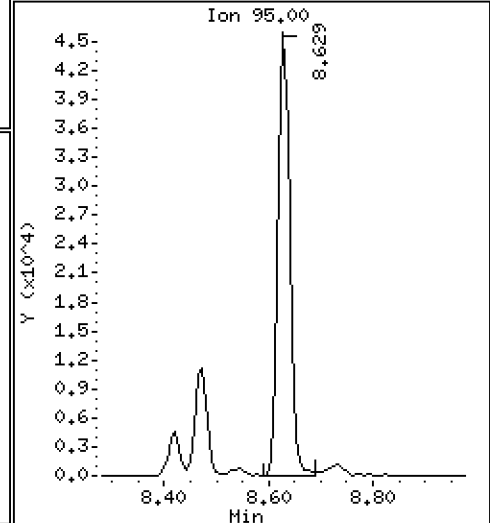
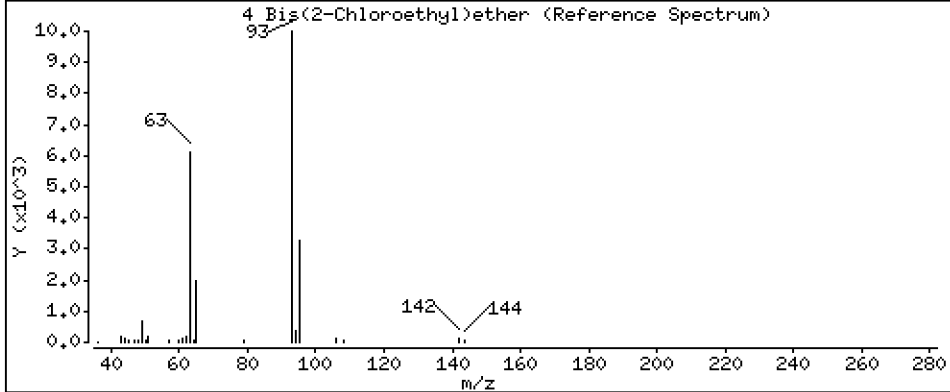
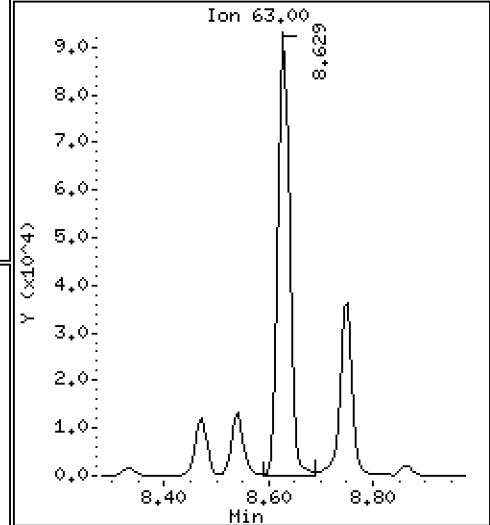
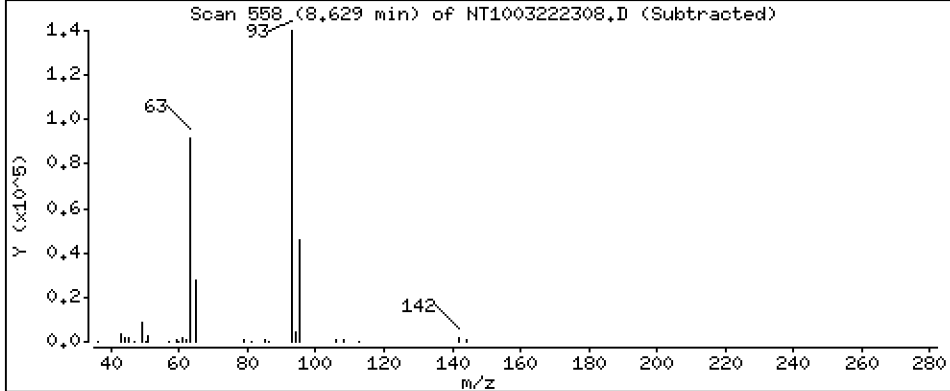
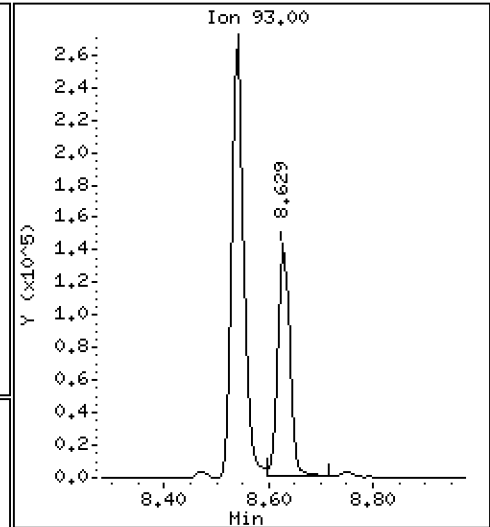
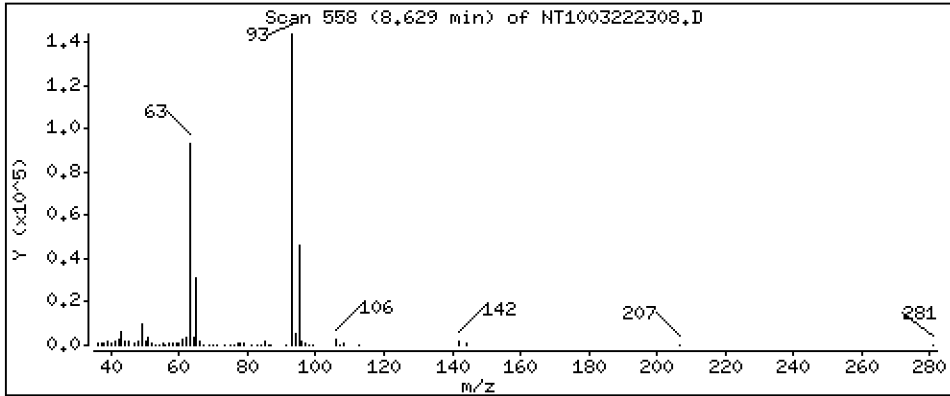
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

4 Bis(2-Chloroethyl)ether

Concentration: 4,505 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

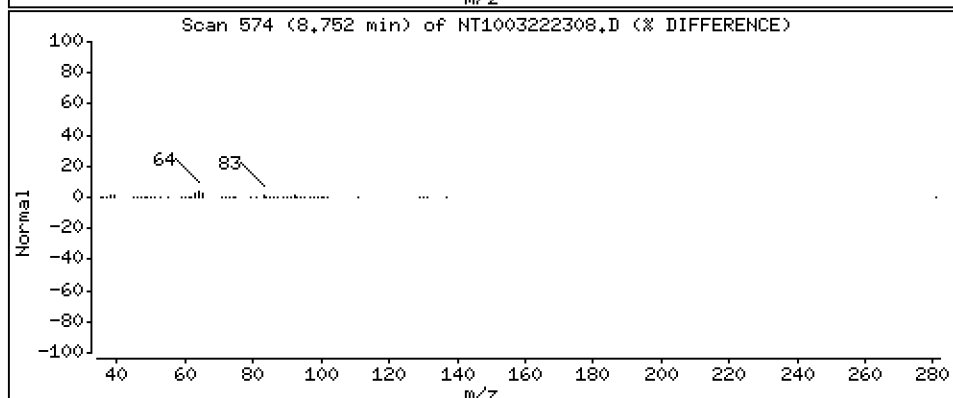
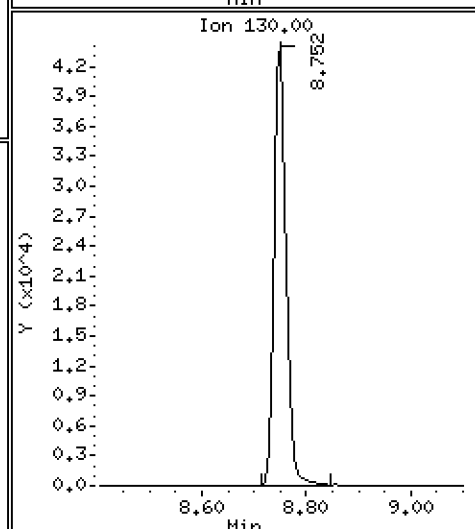
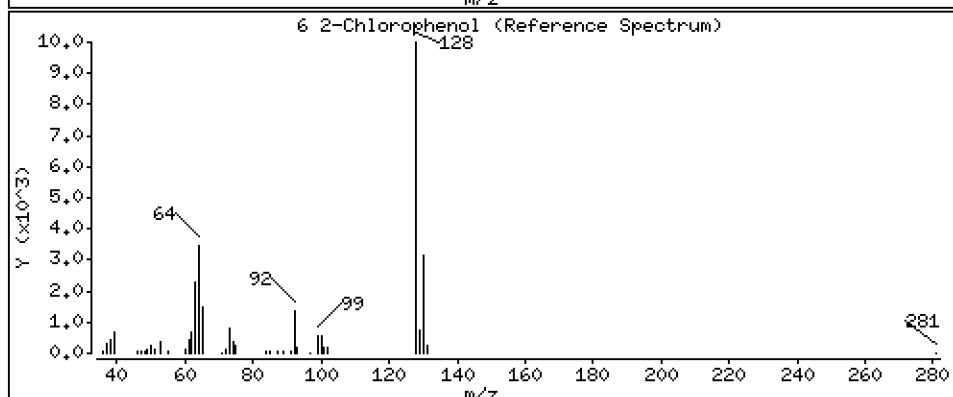
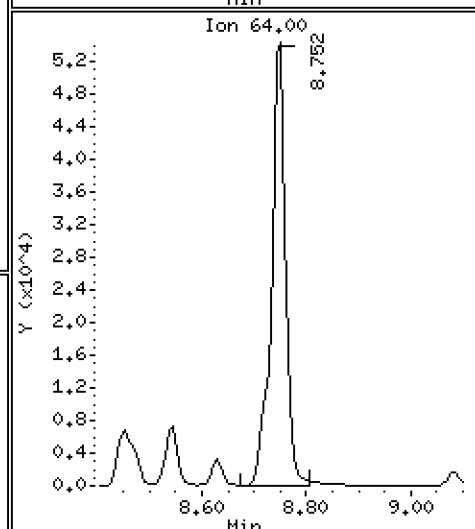
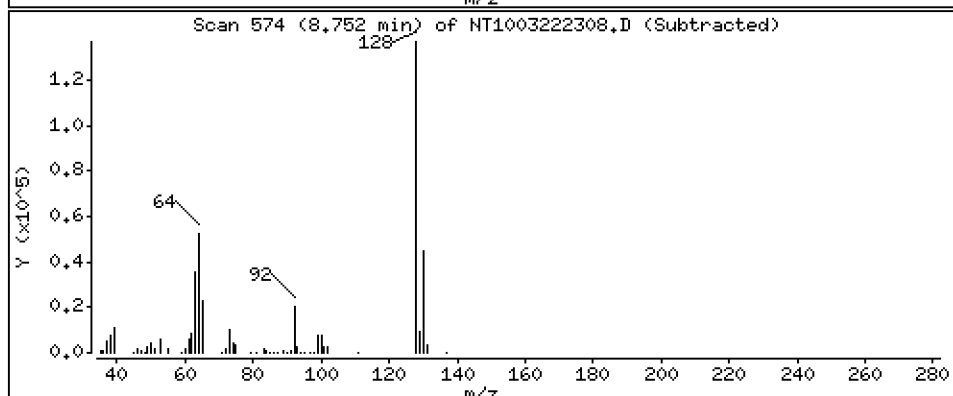
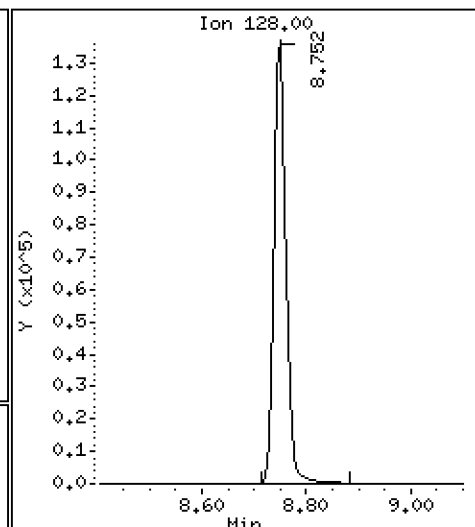
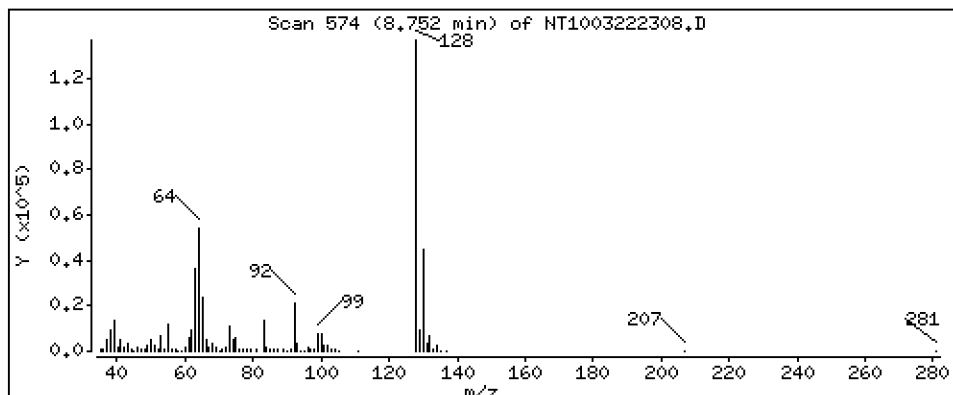
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 4,014 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

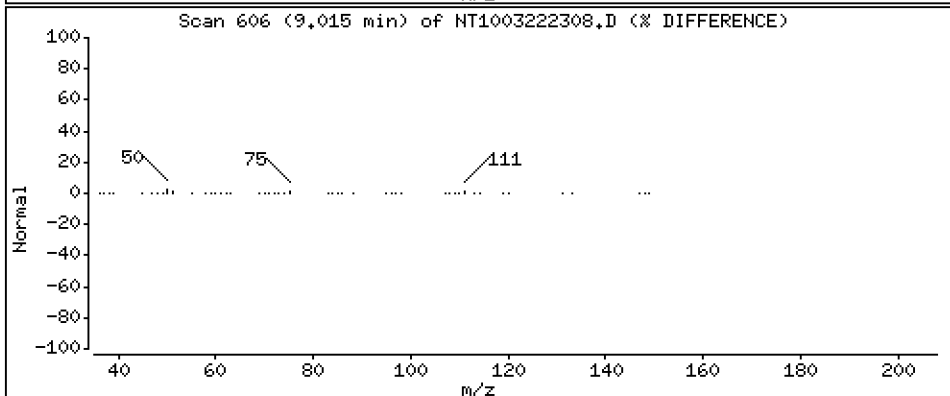
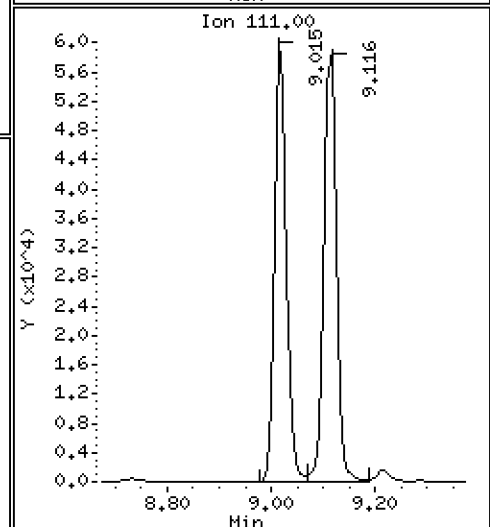
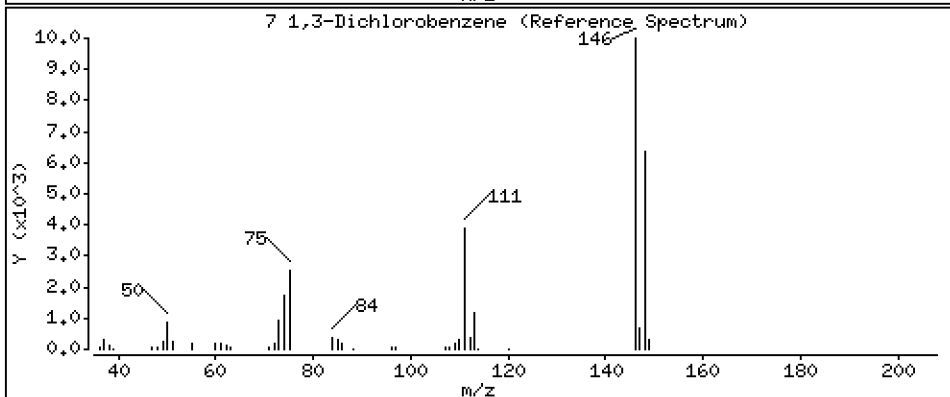
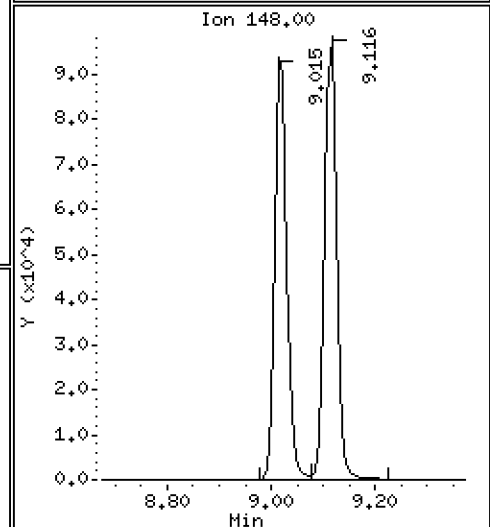
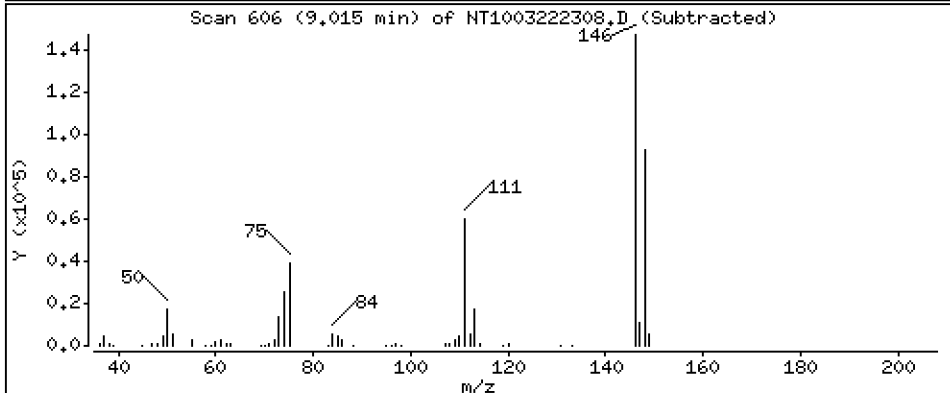
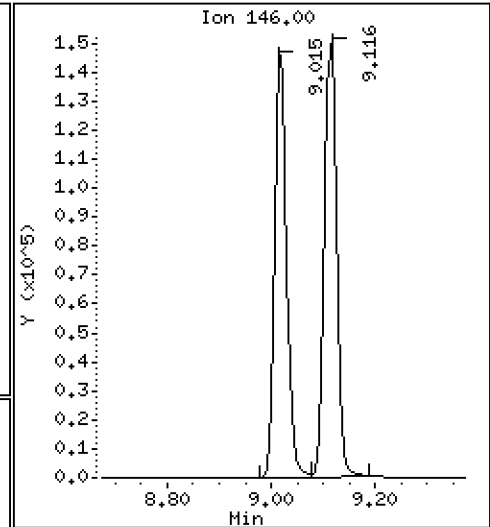
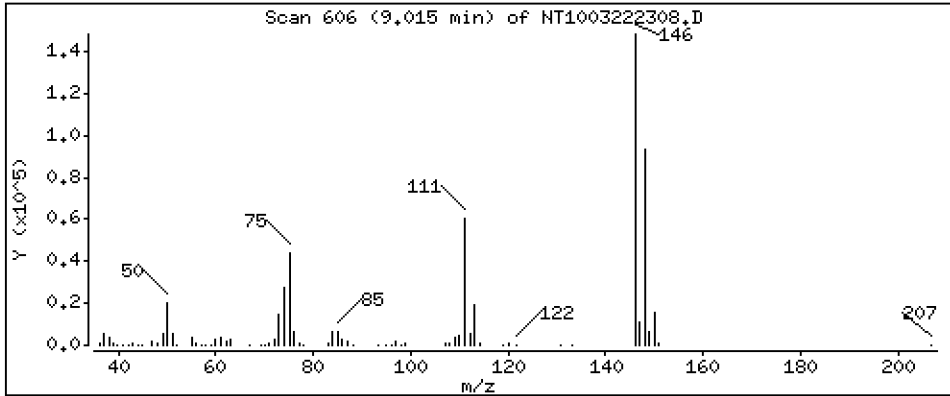
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

7 1,3-Dichlorobenzene

Concentration: 4,120 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

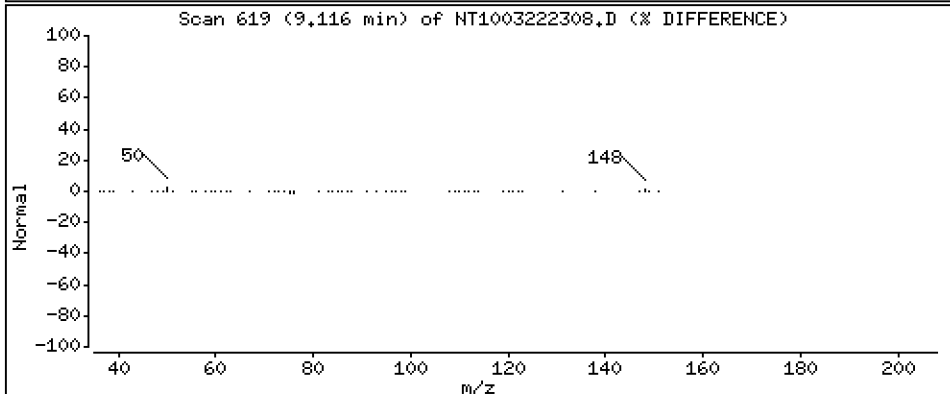
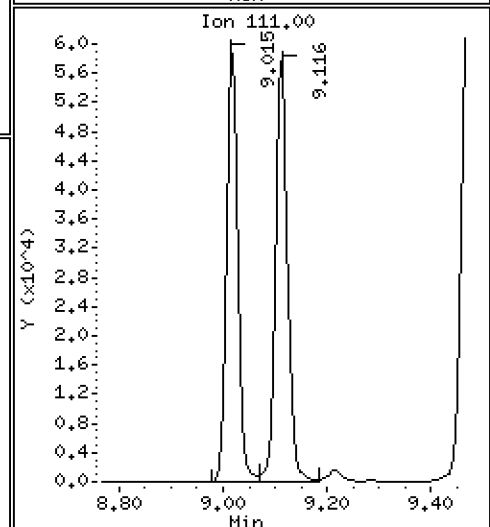
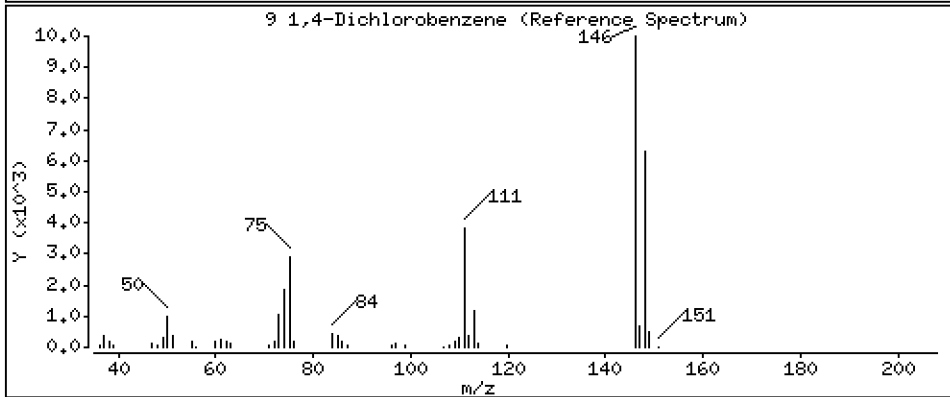
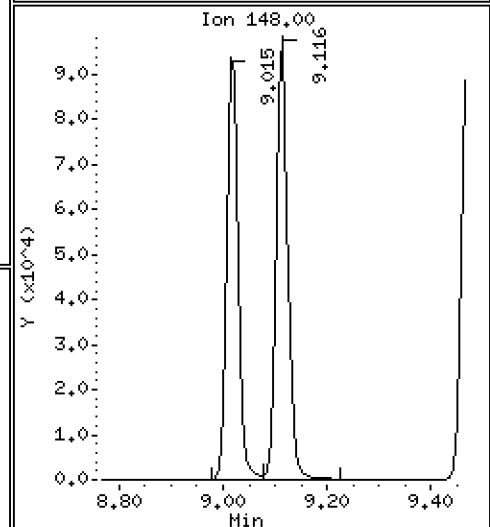
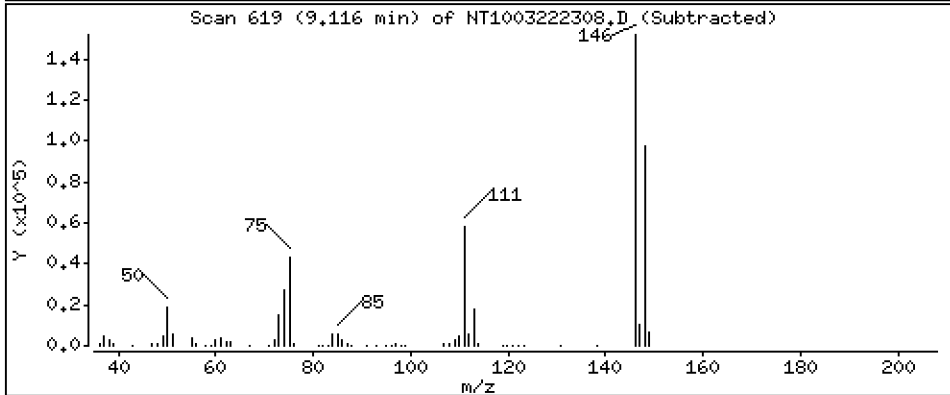
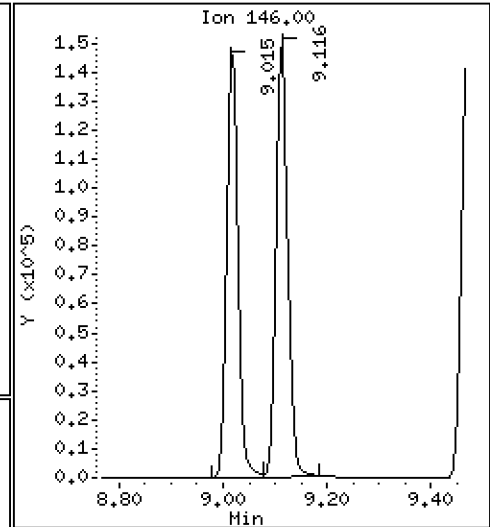
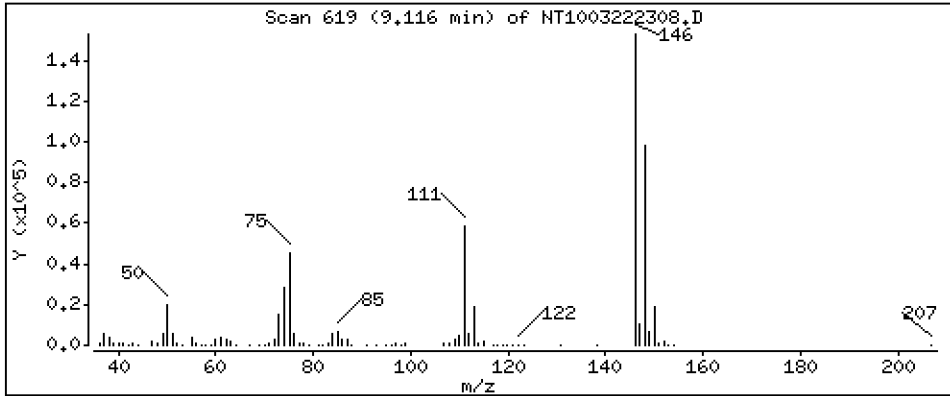
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 4,214 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

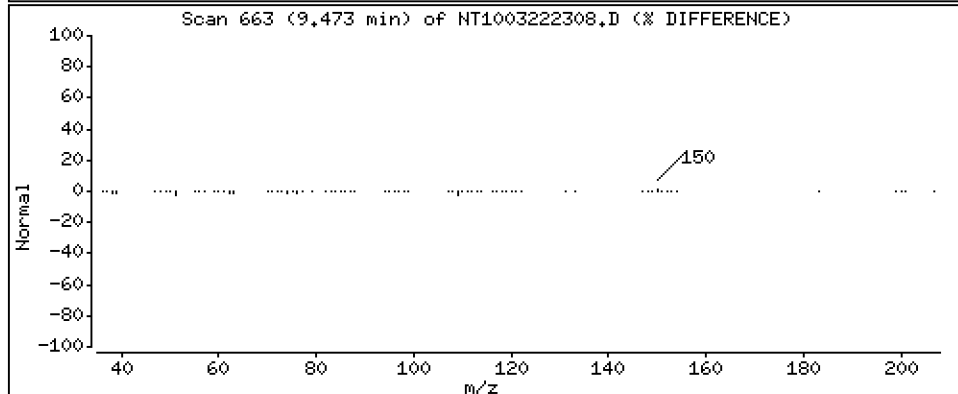
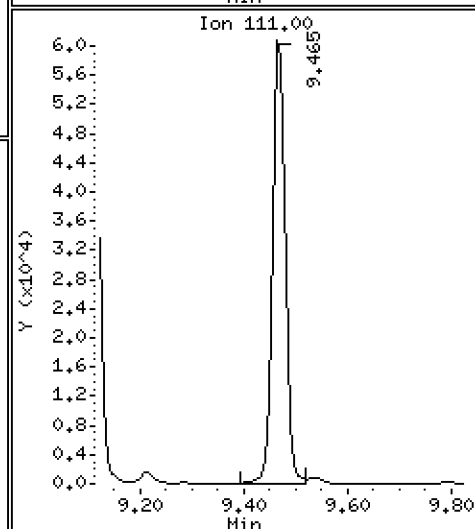
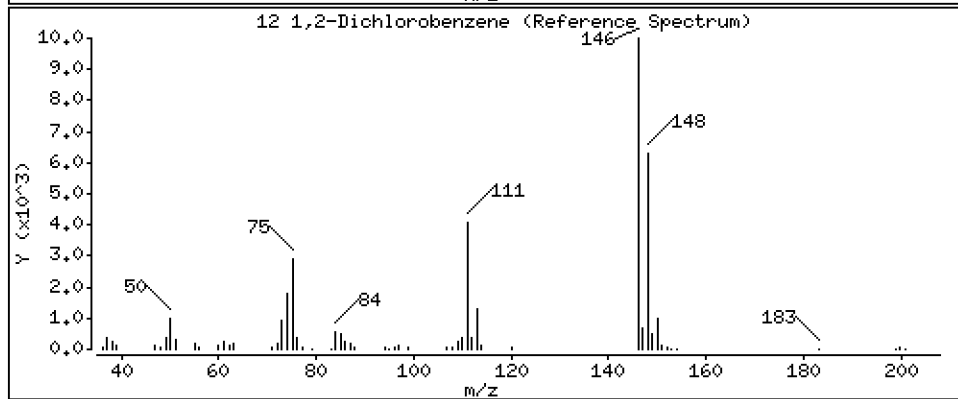
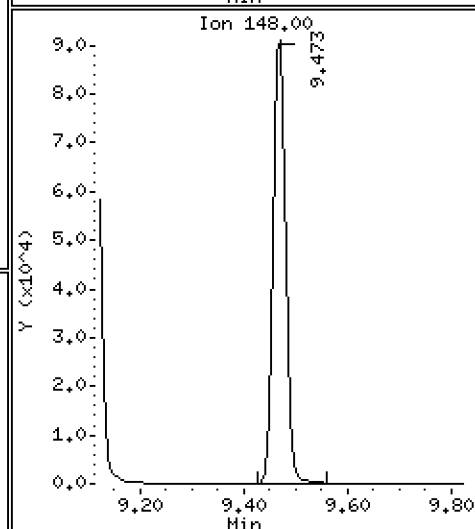
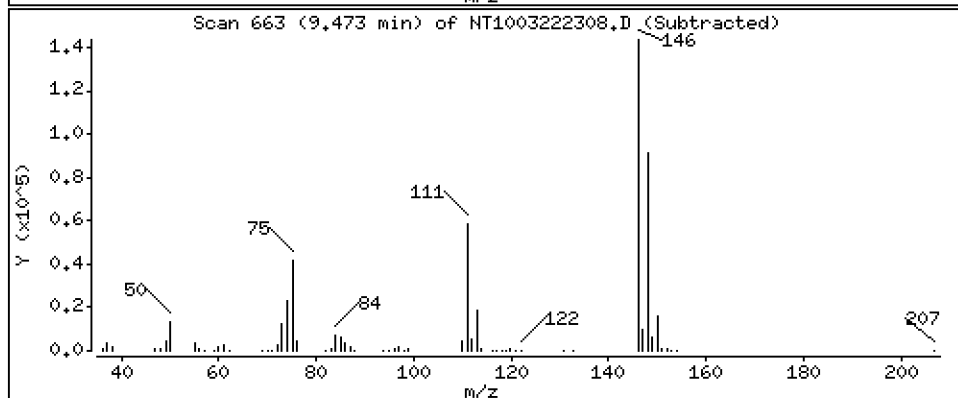
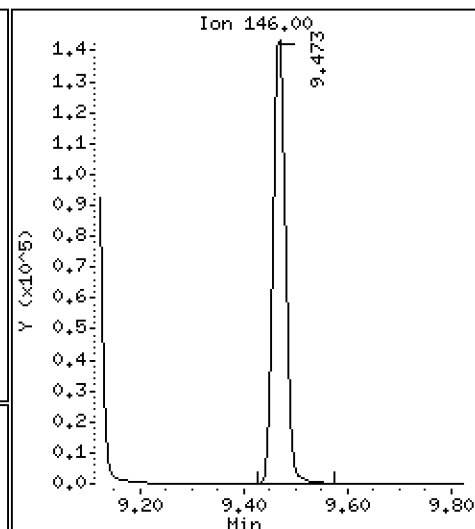
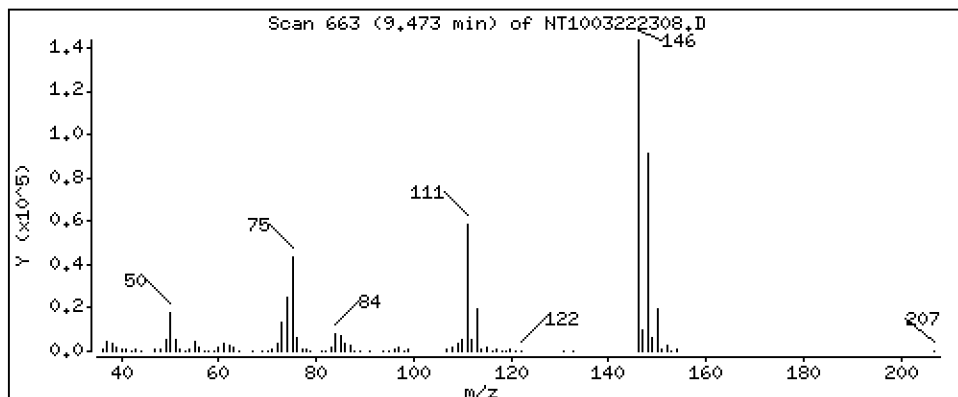
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

12 1,2-Dichlorobenzene

Concentration: 4,239 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

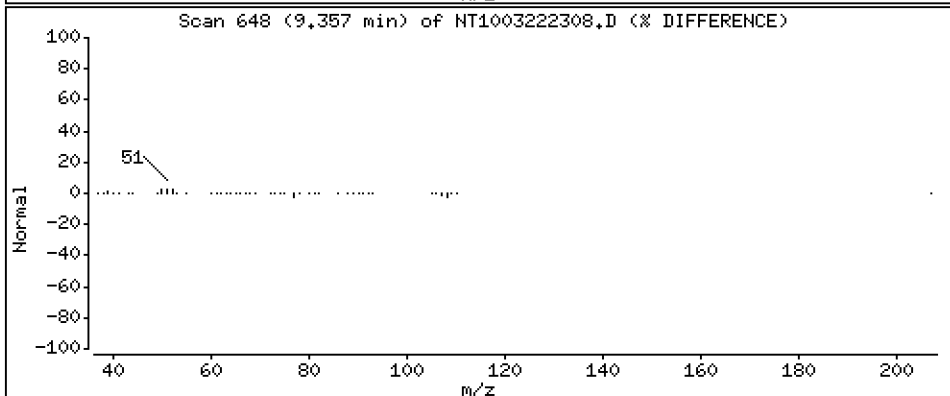
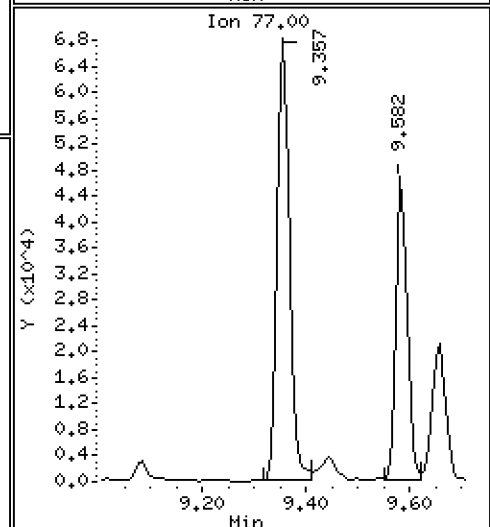
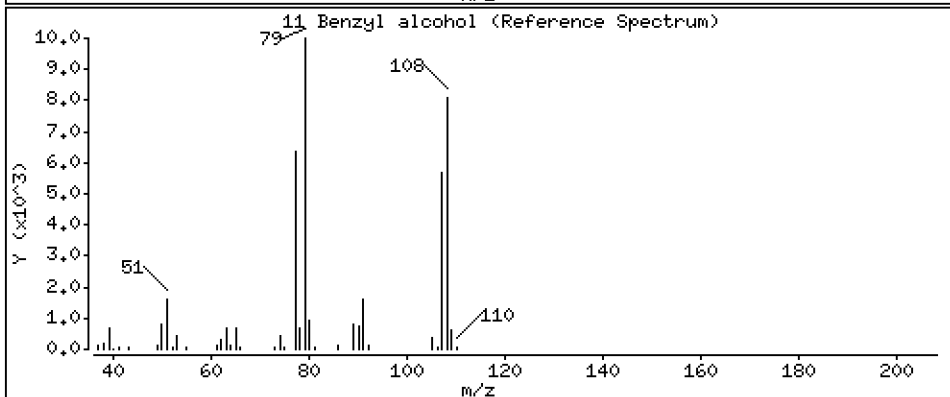
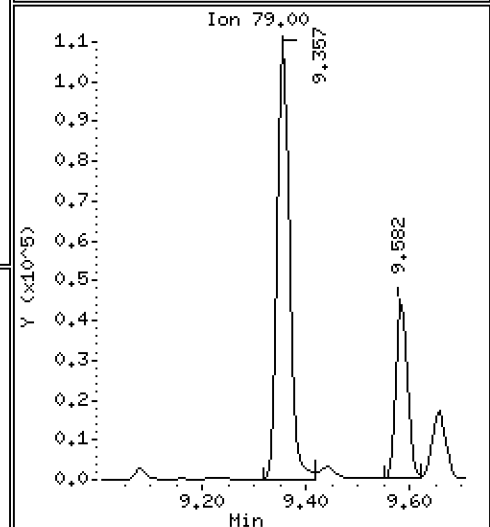
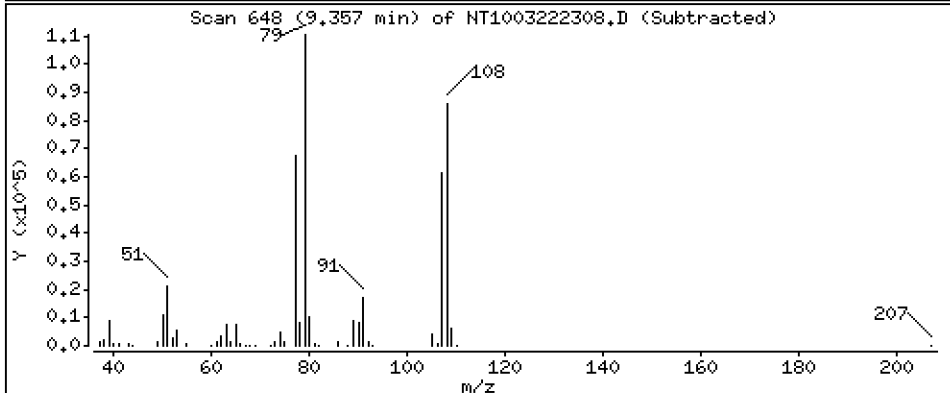
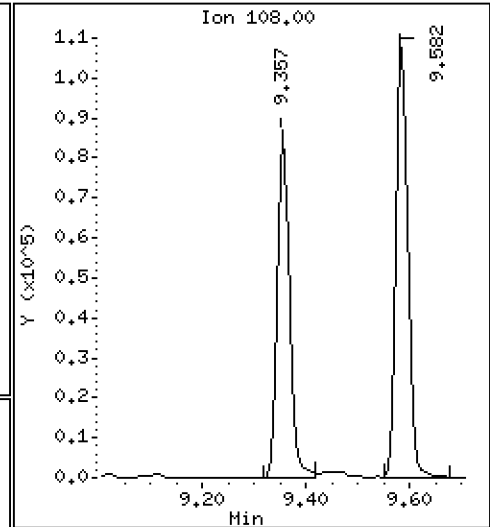
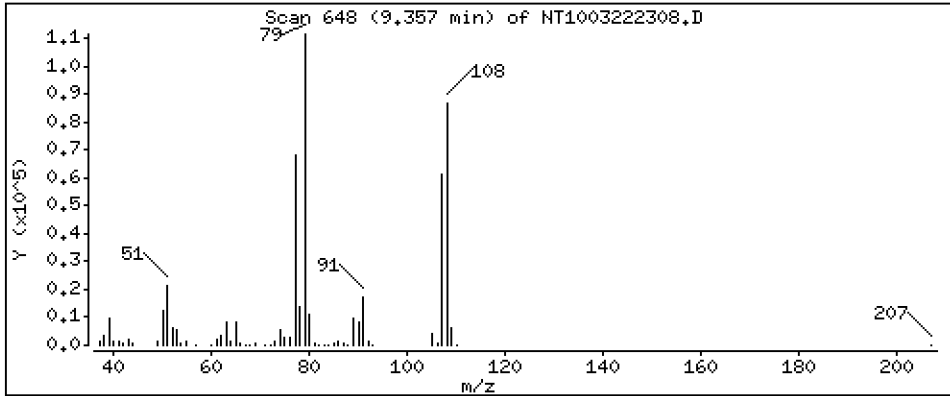
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

11 Benzyl alcohol

Concentration: 4,442 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

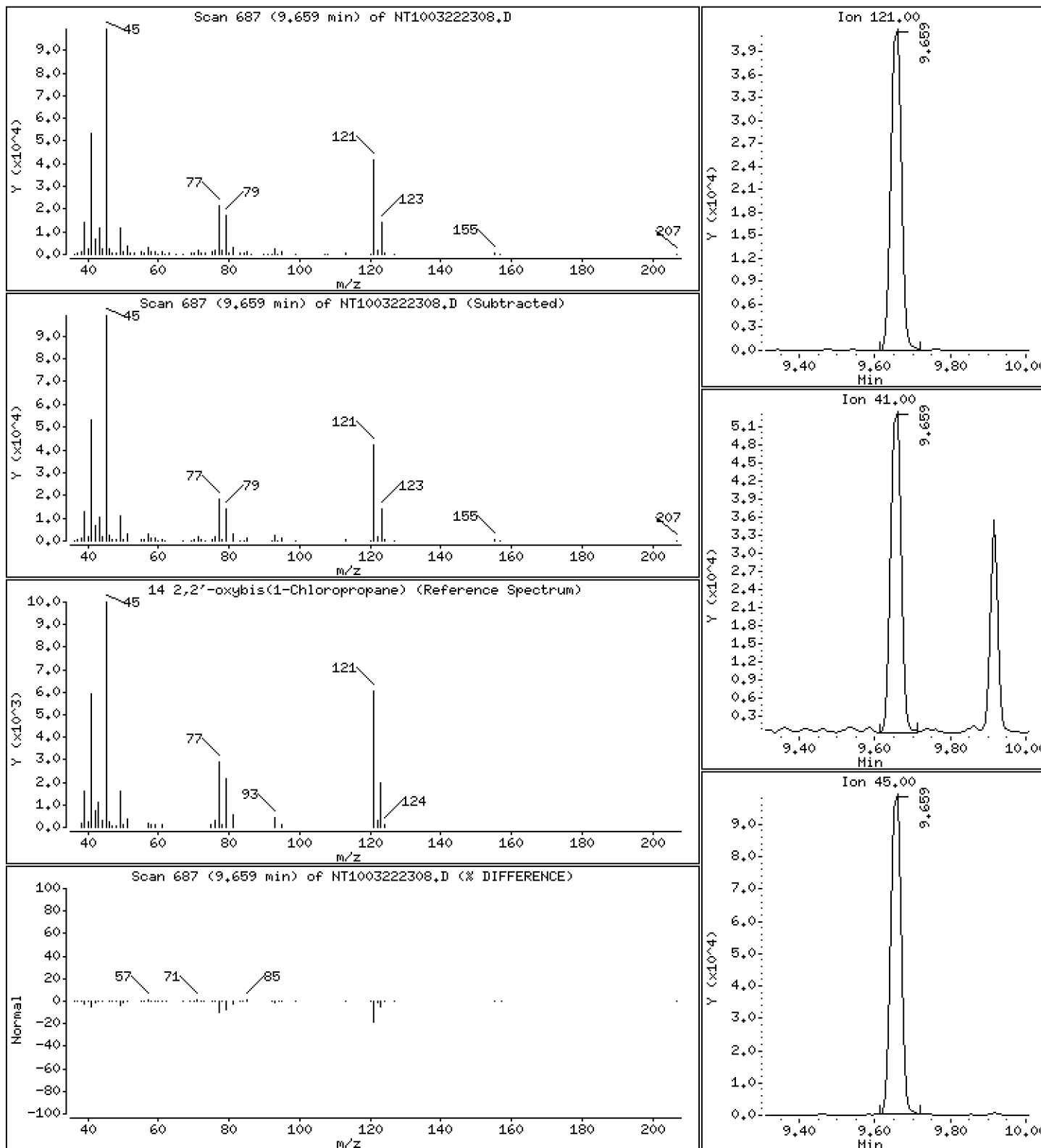
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 4,830 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

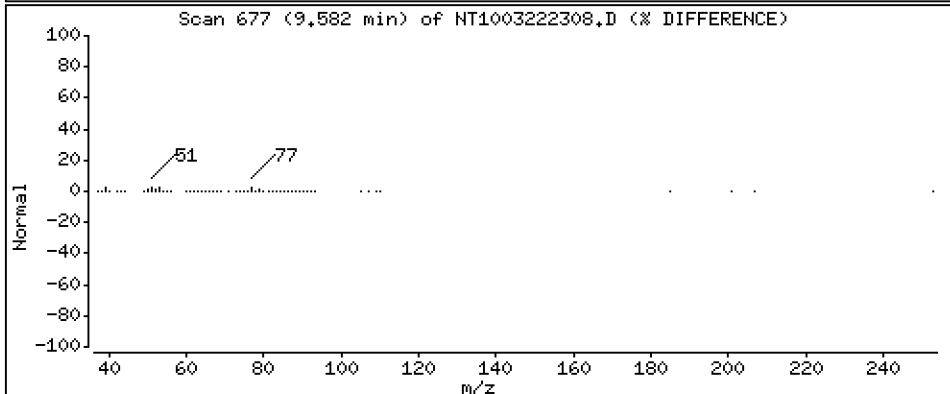
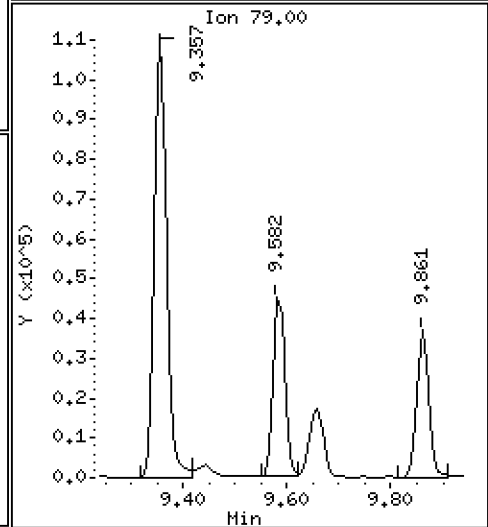
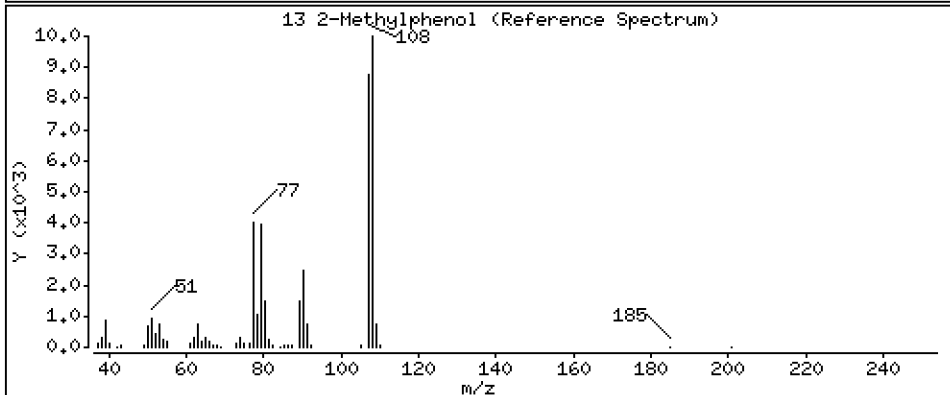
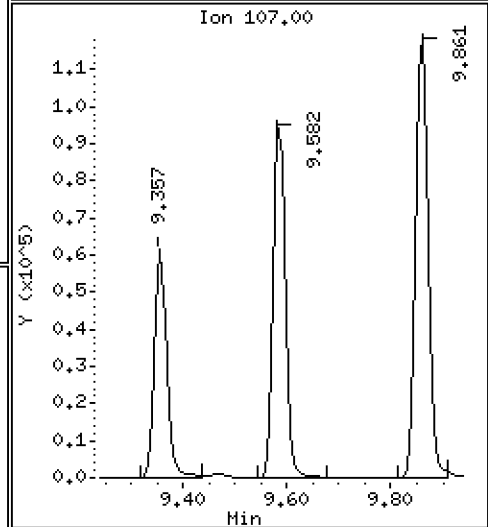
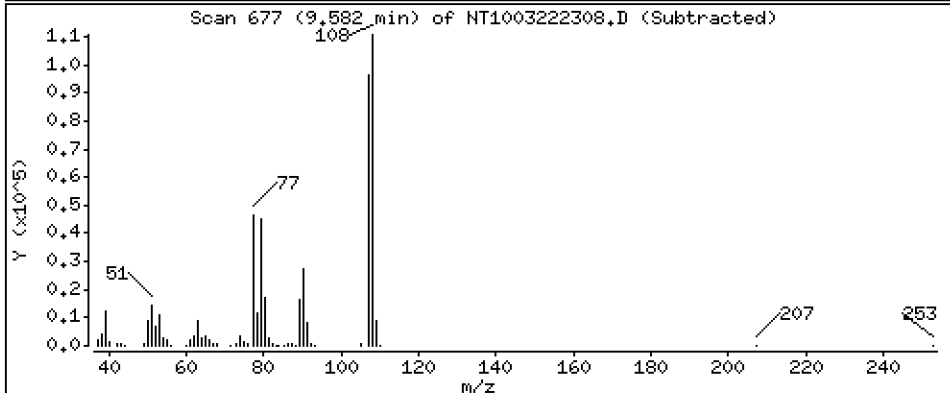
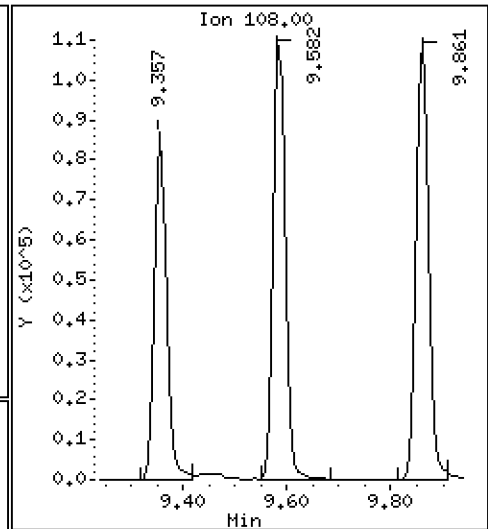
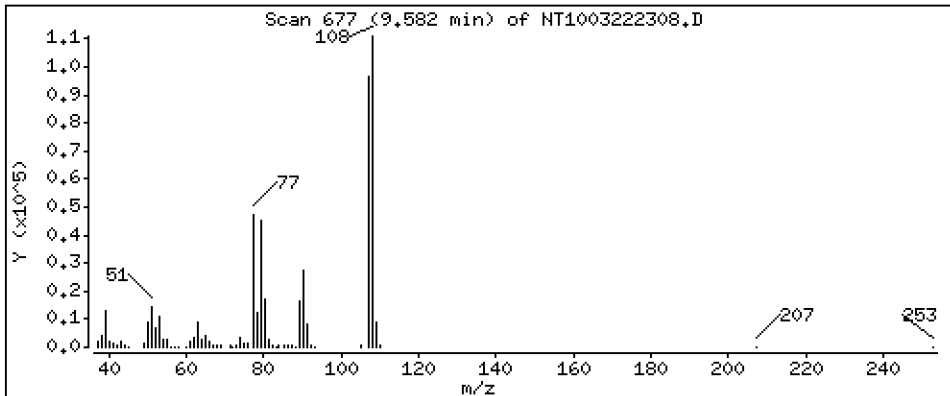
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

13 2-Methylphenol

Concentration: 3,606 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

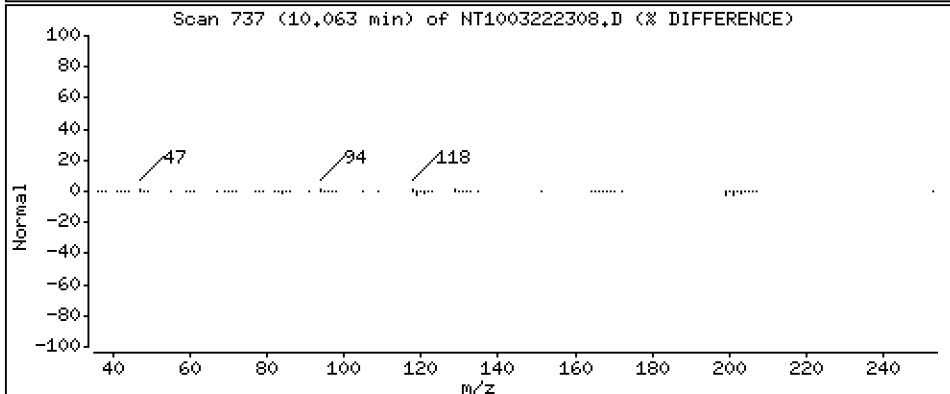
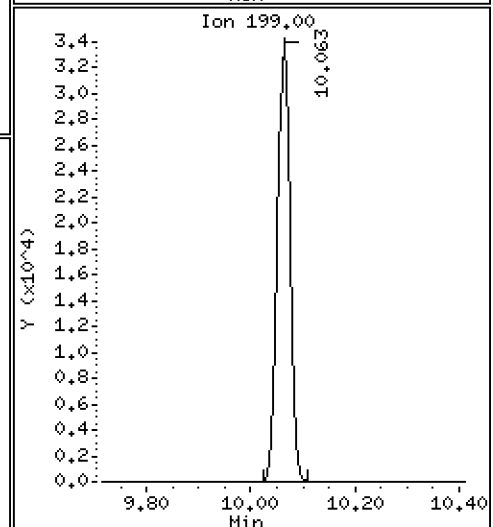
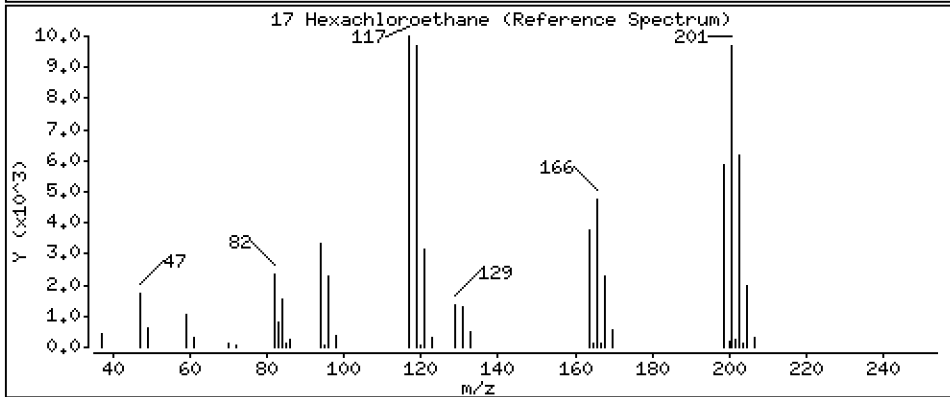
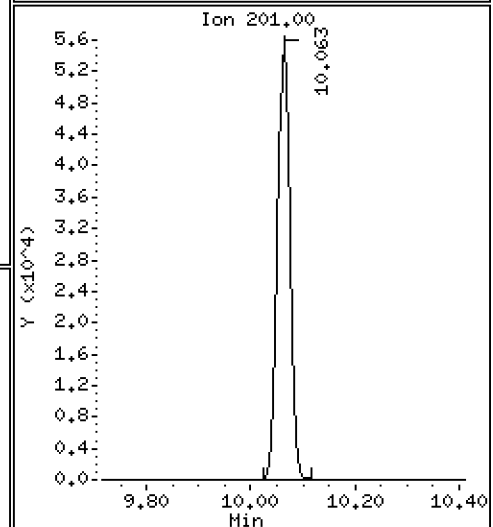
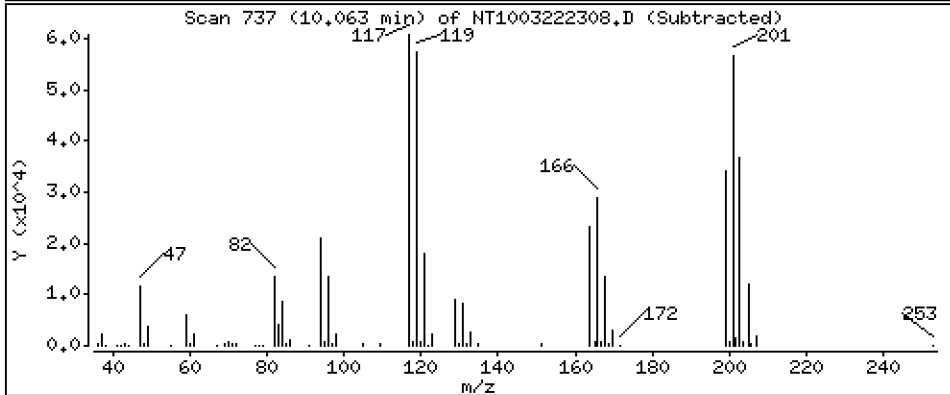
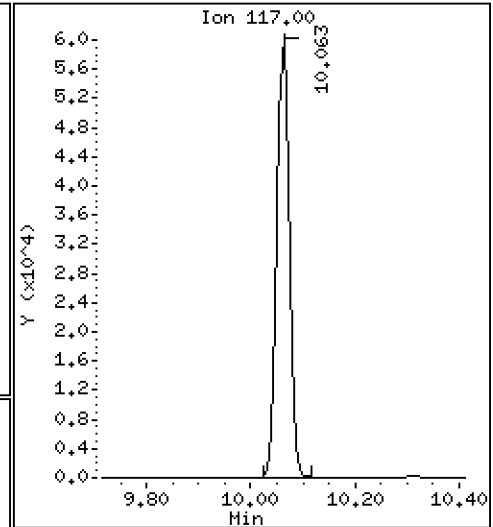
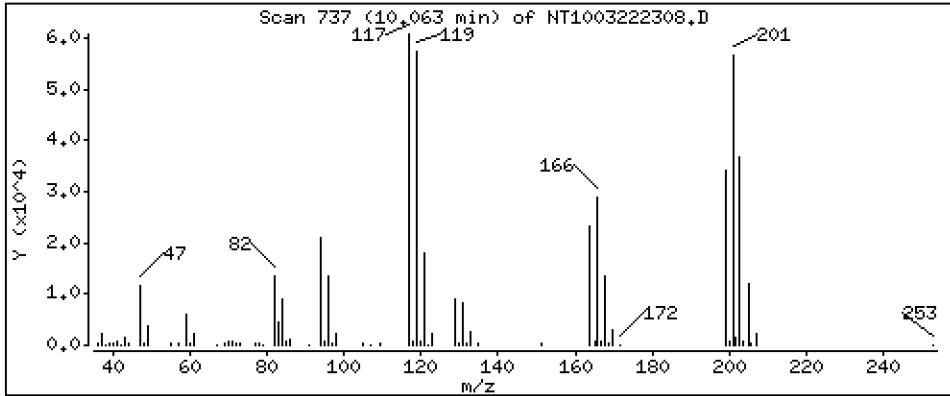
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

17 Hexachloroethane

Concentration: 4,181 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

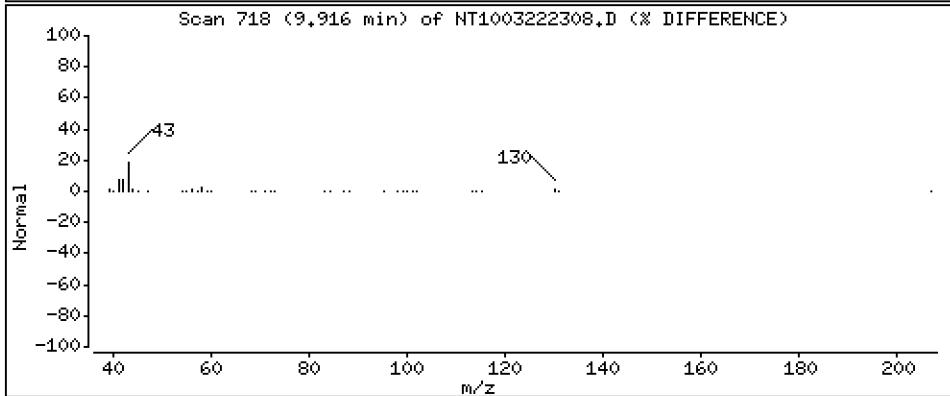
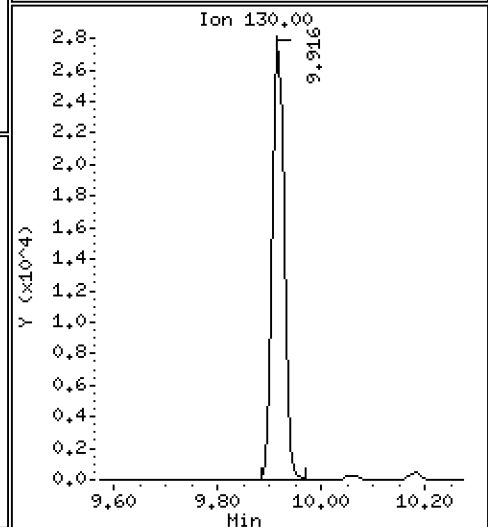
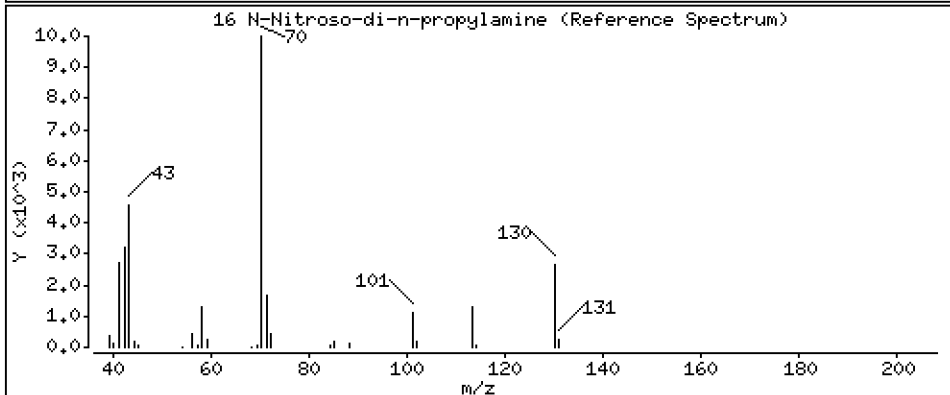
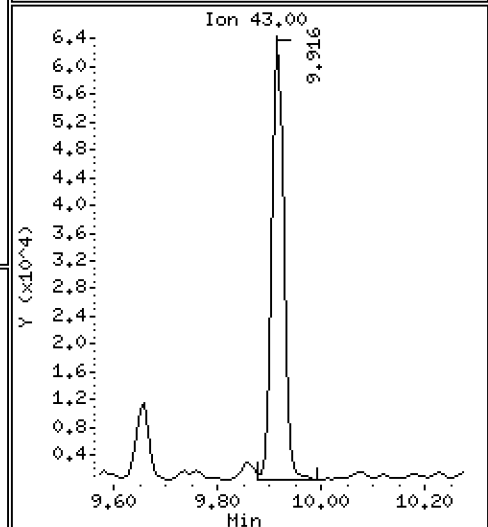
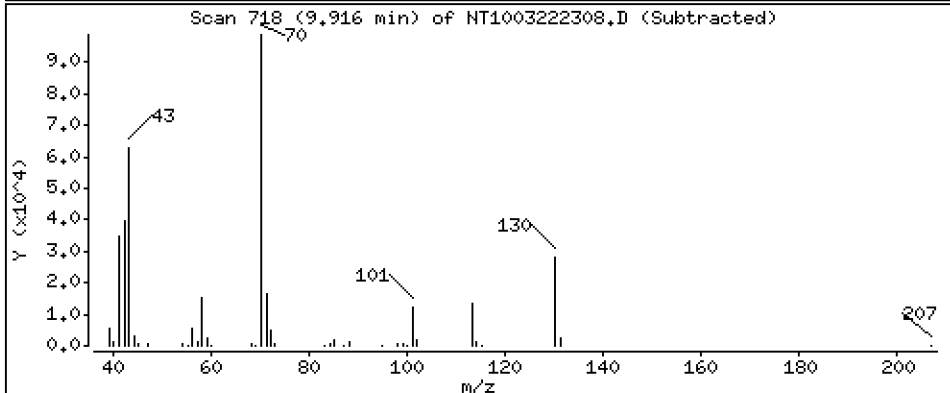
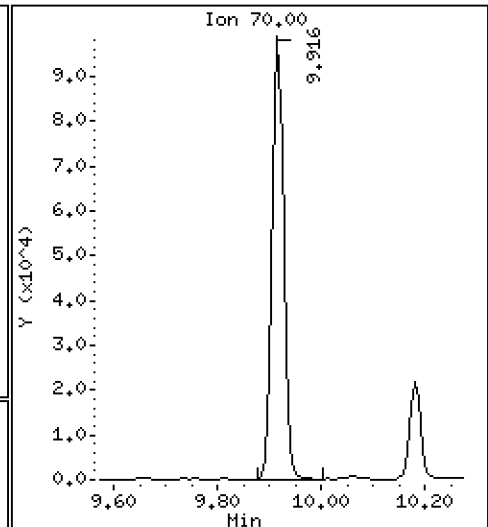
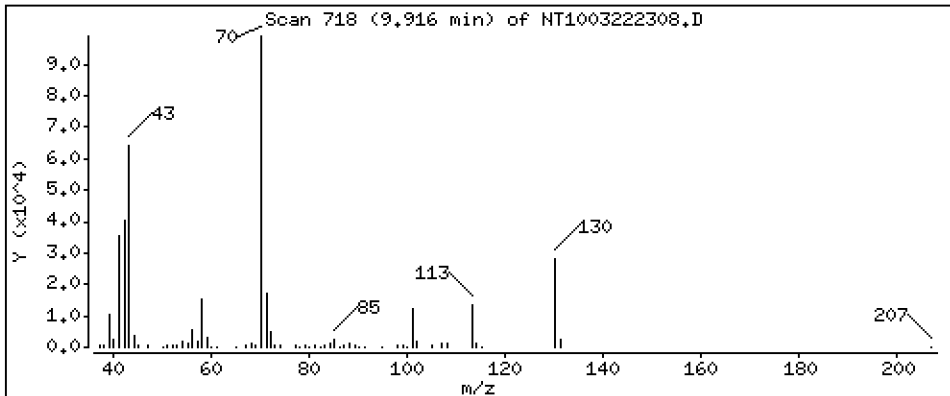
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

16 N-Nitroso-di-n-propylamine

Concentration: 3,965 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

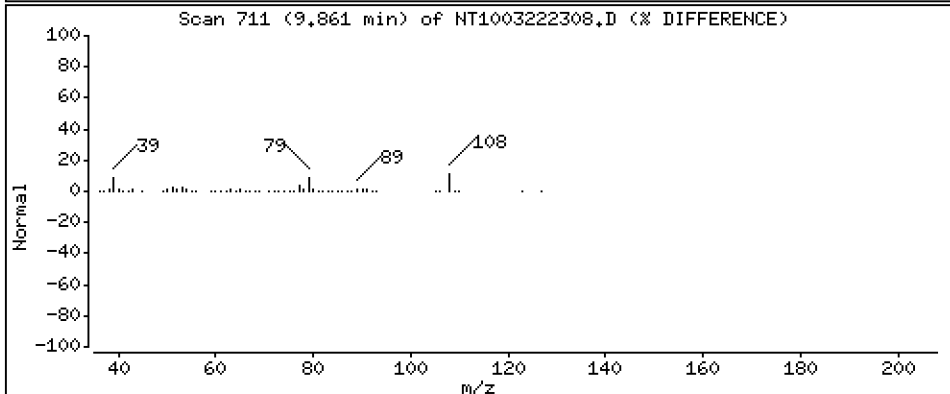
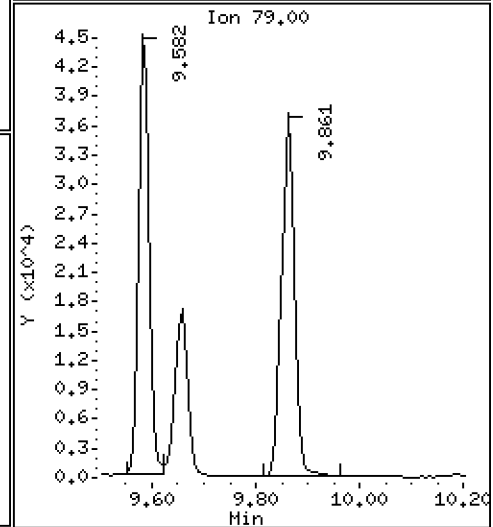
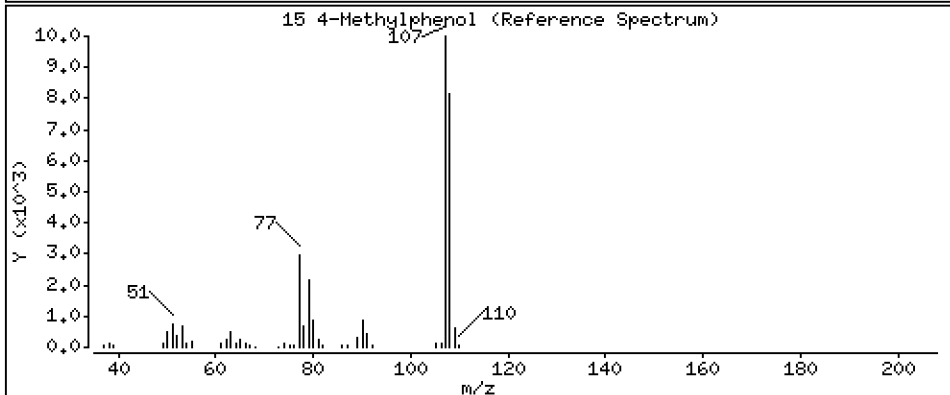
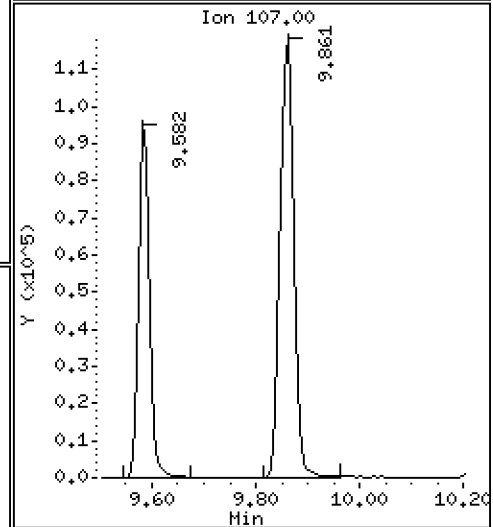
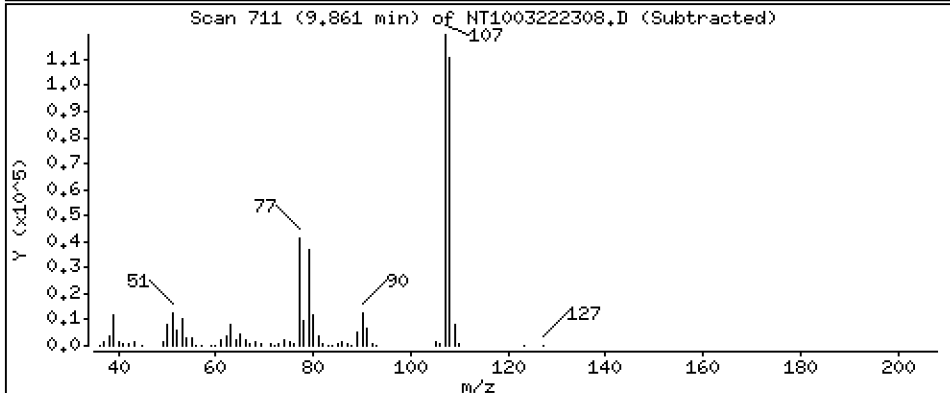
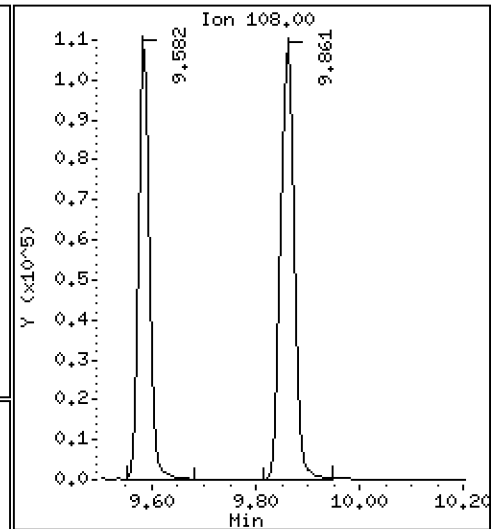
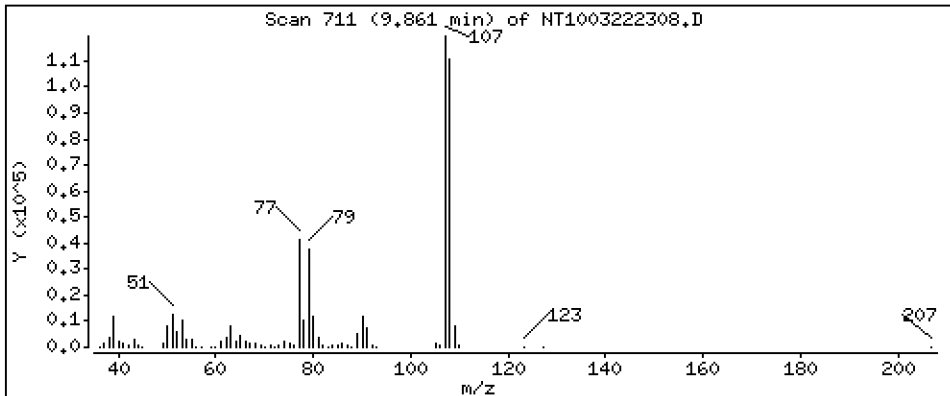
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

15 4-Methylphenol

Concentration: 4,034 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

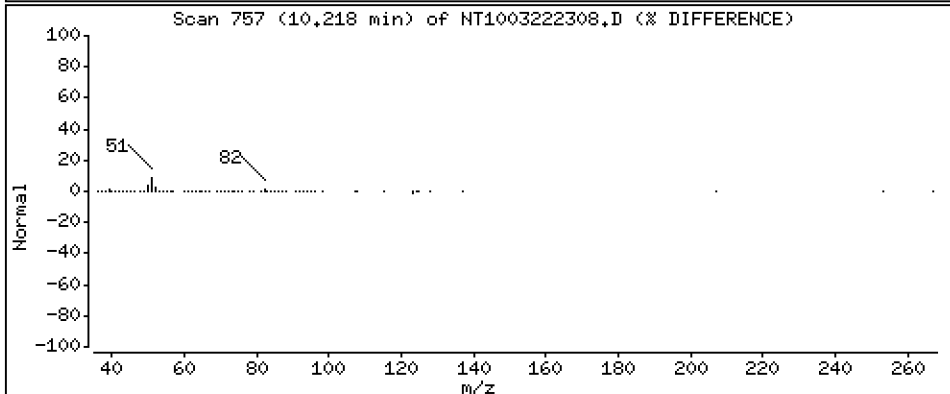
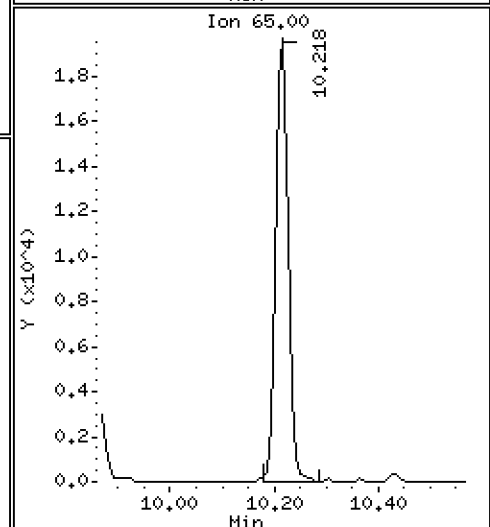
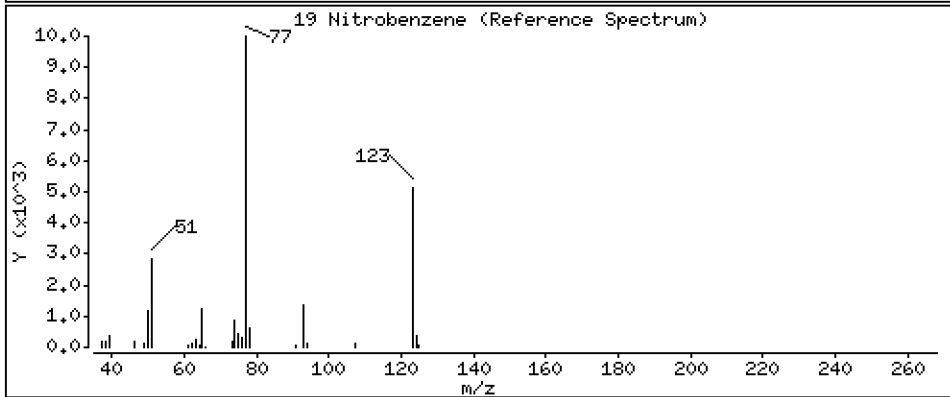
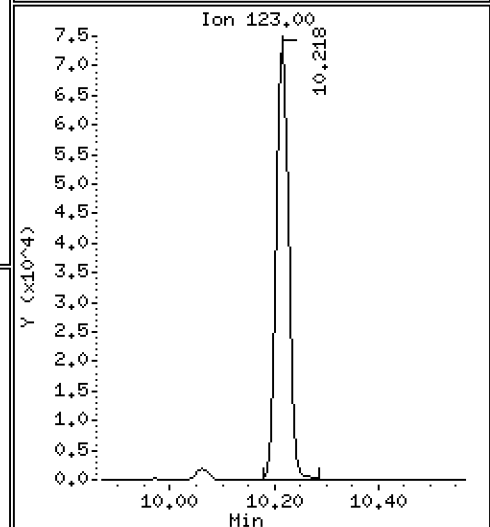
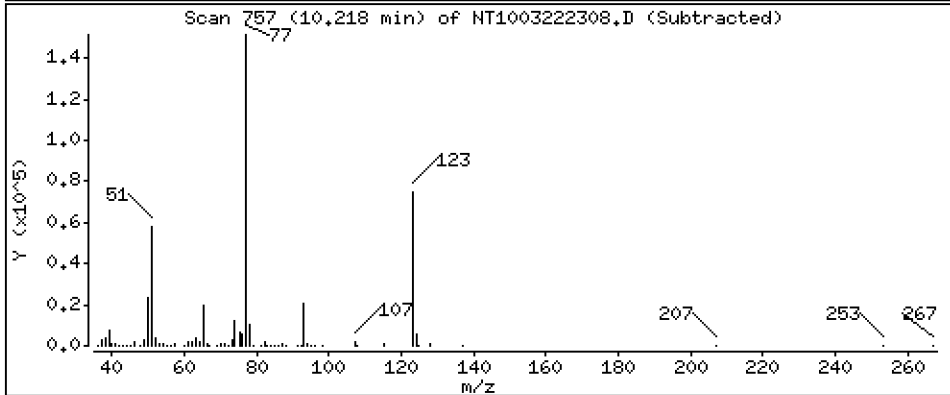
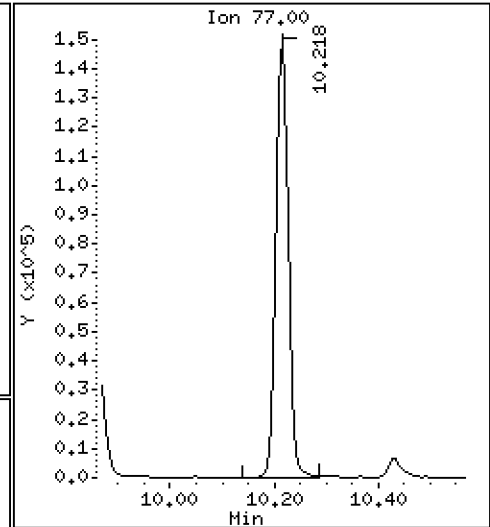
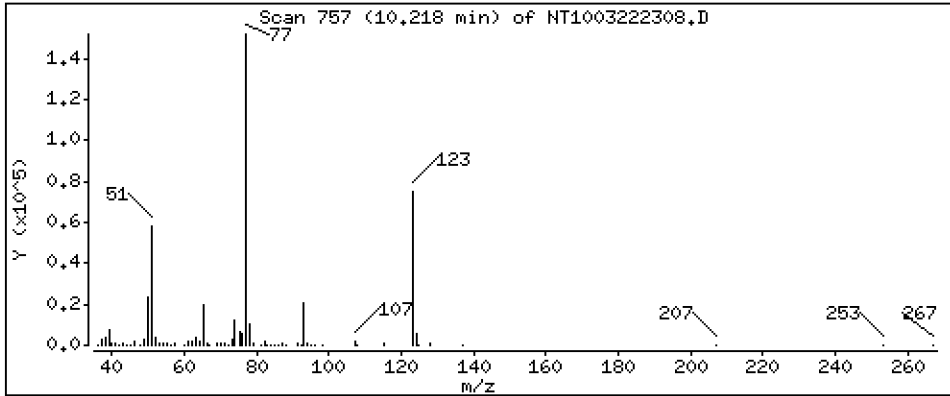
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

19 Nitrobenzene

Concentration: 4,271 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

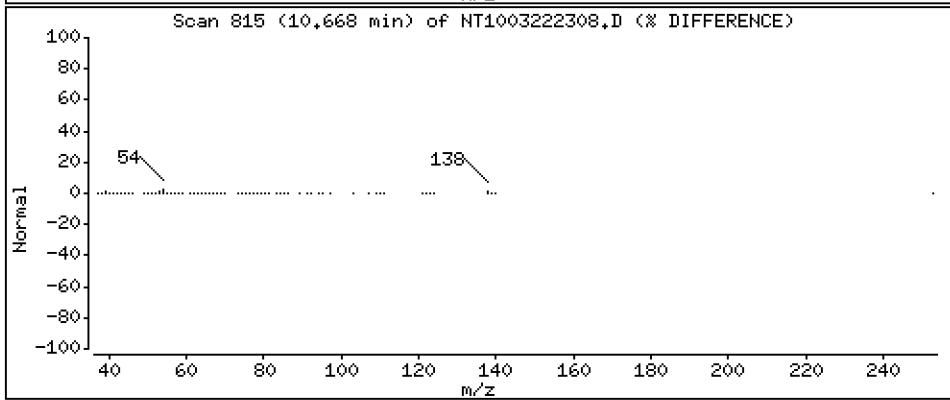
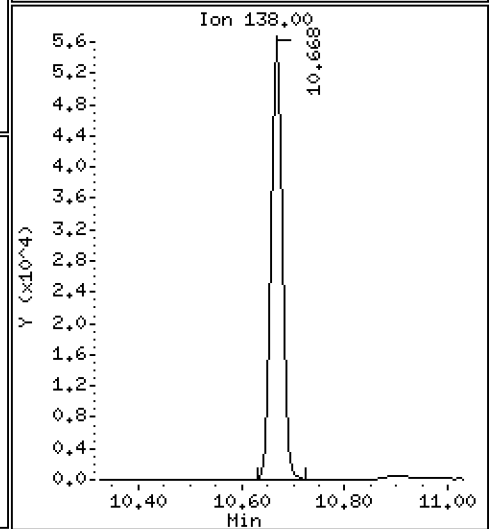
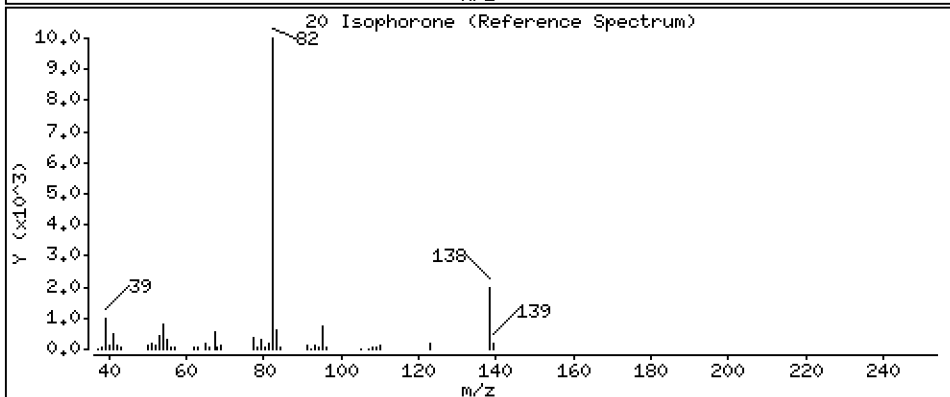
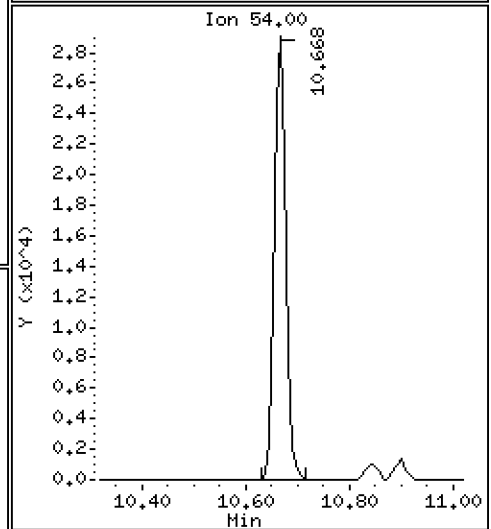
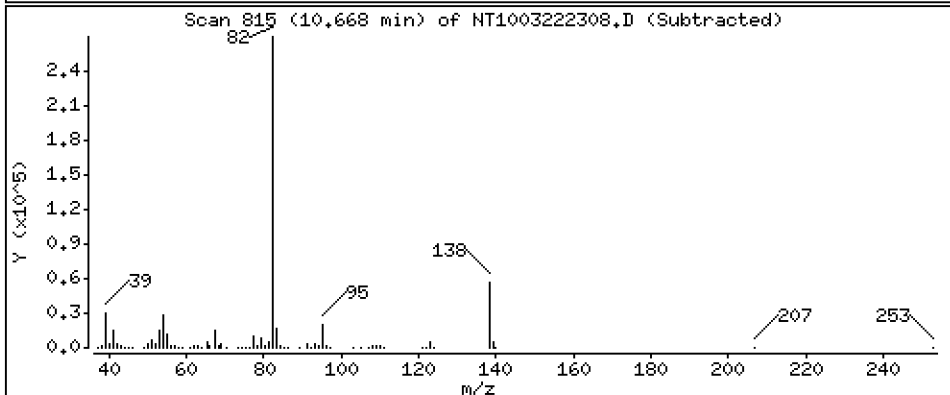
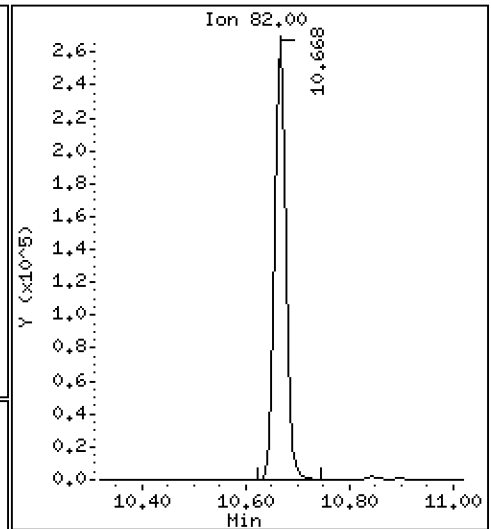
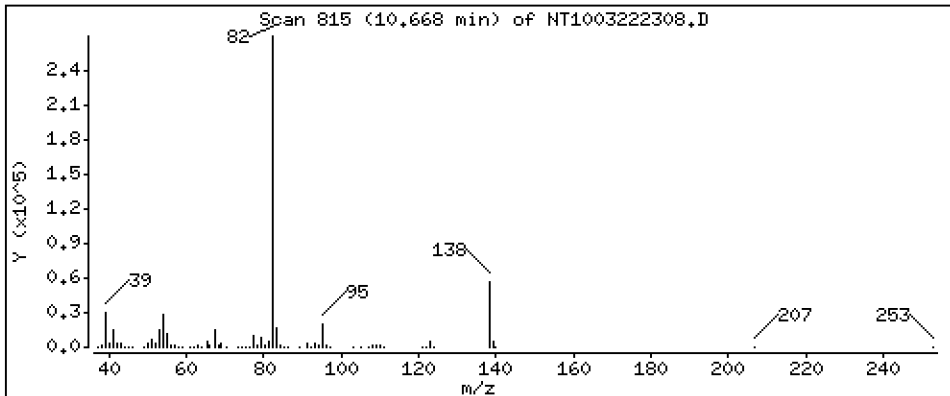
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

20 Isophorone

Concentration: 5,995 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

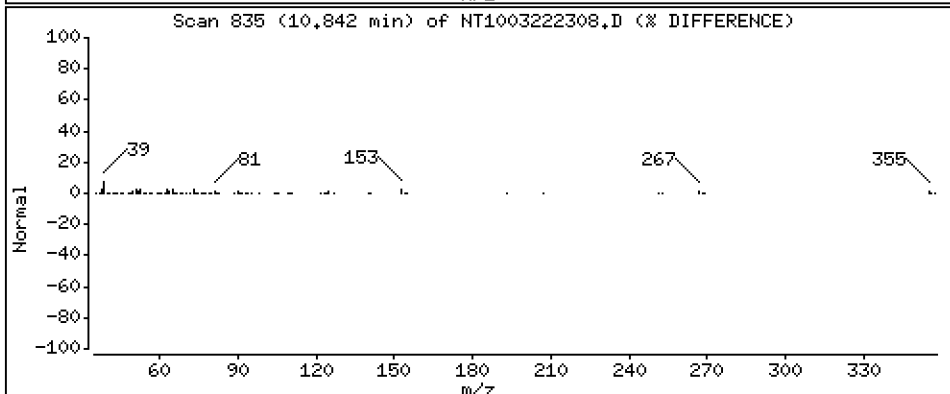
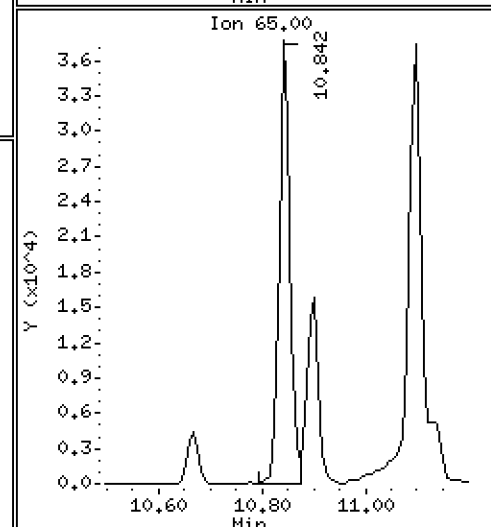
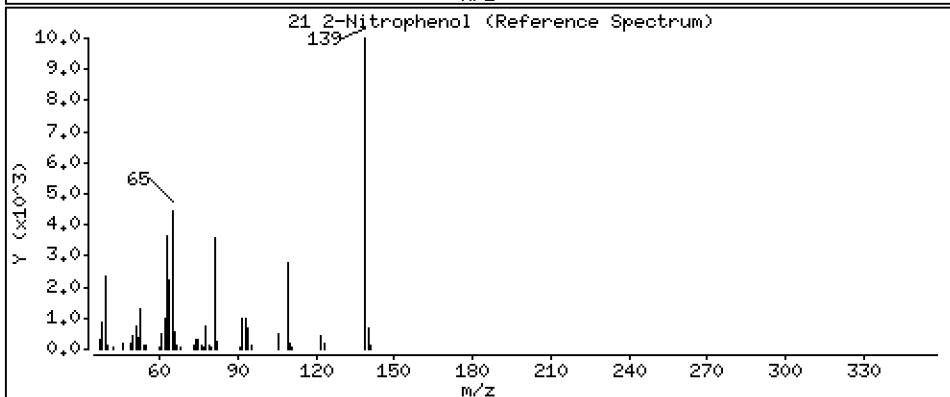
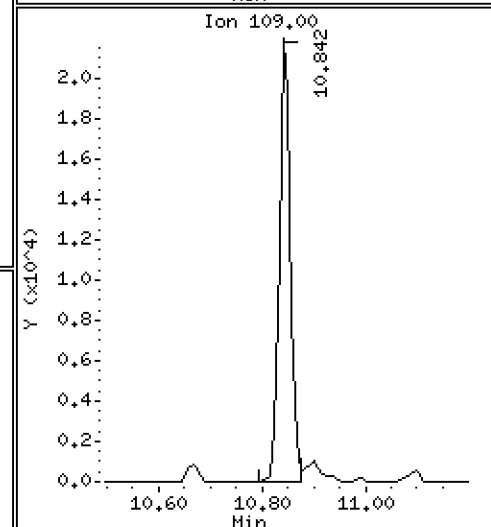
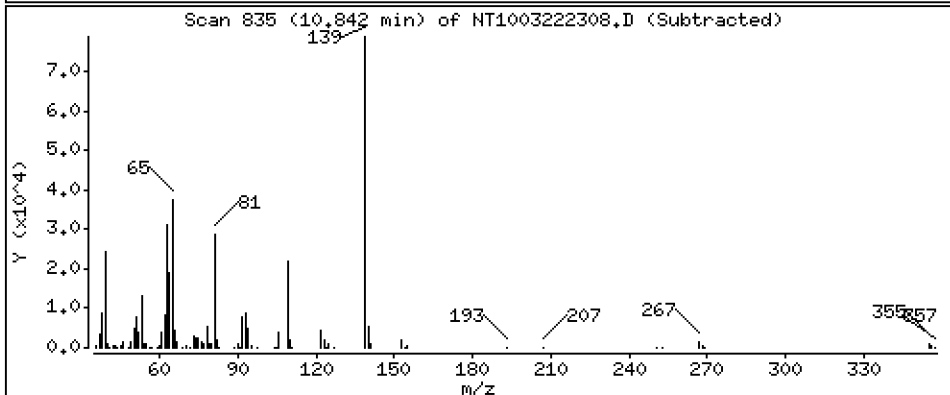
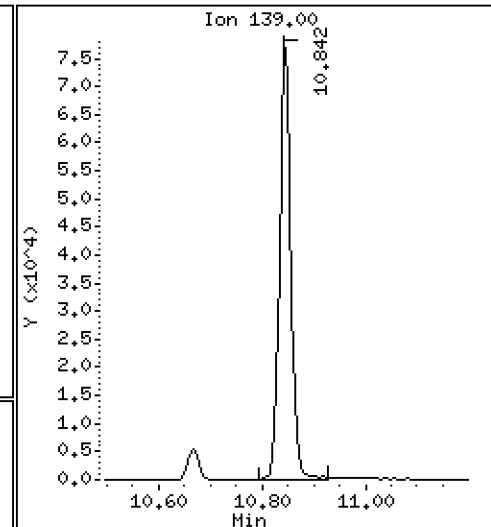
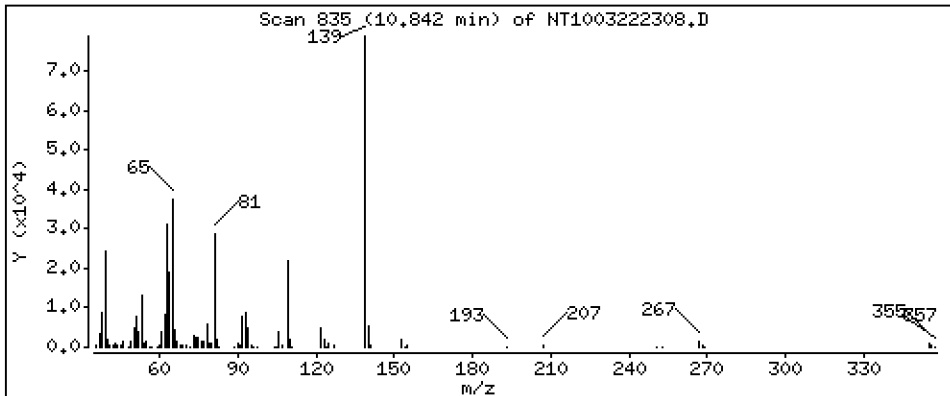
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

21 2-Nitrophenol

Concentration: 5,145 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

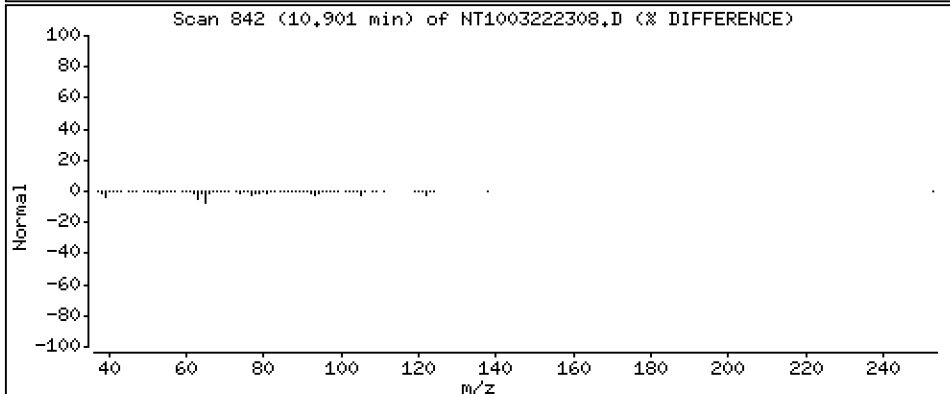
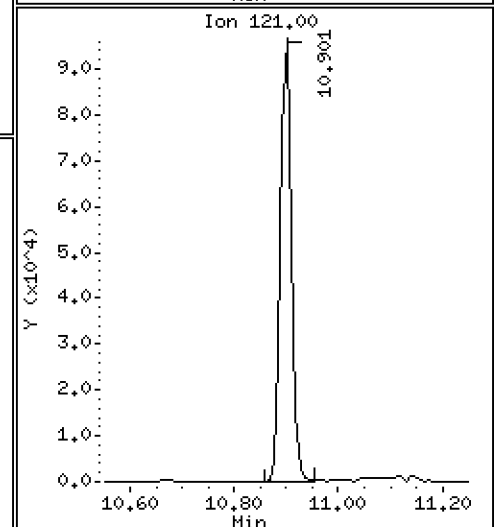
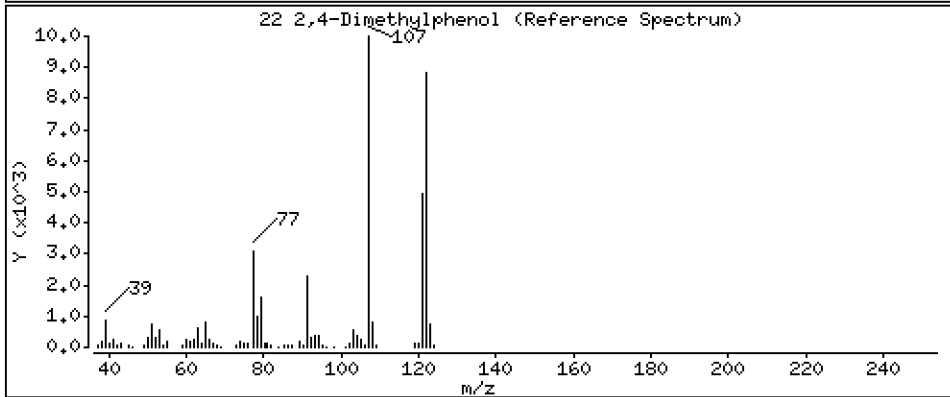
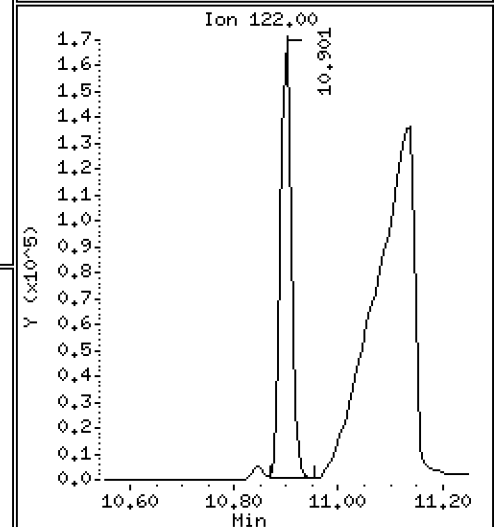
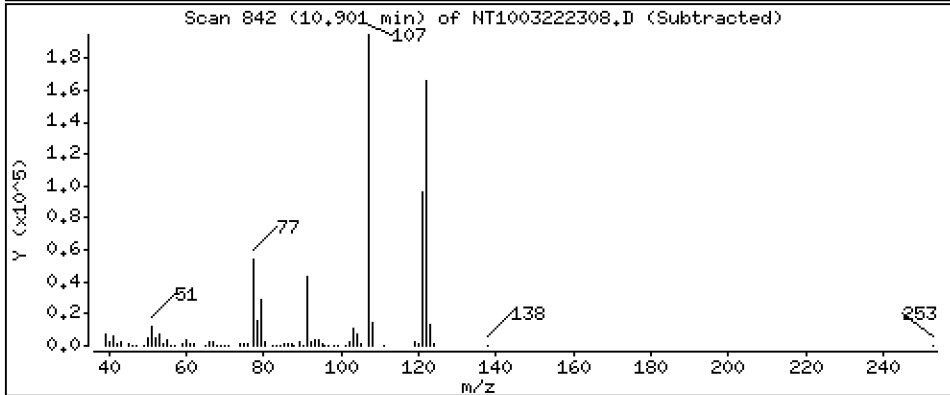
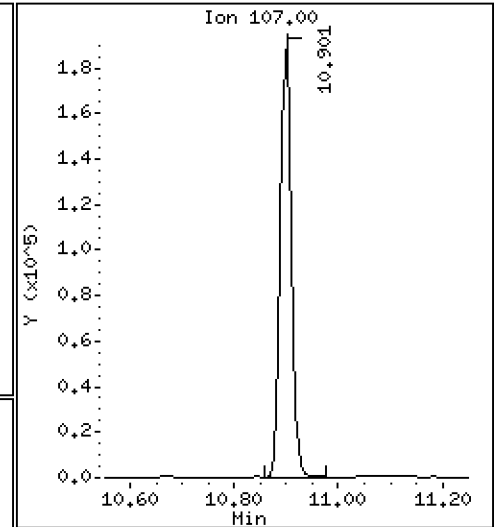
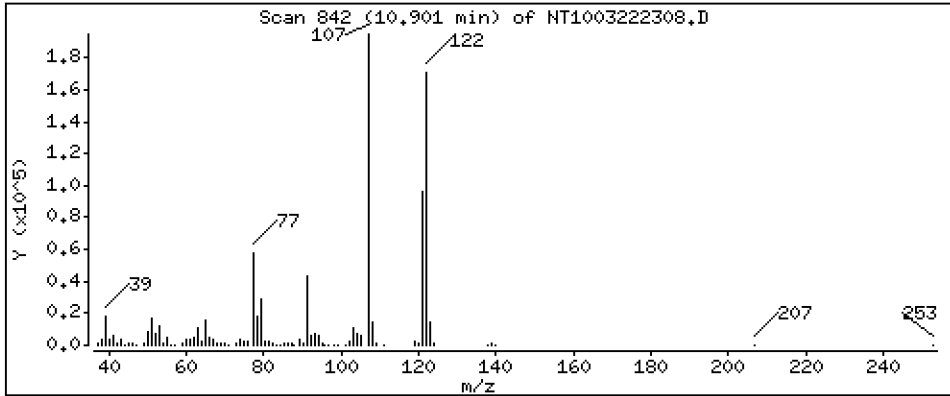
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 5,548 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

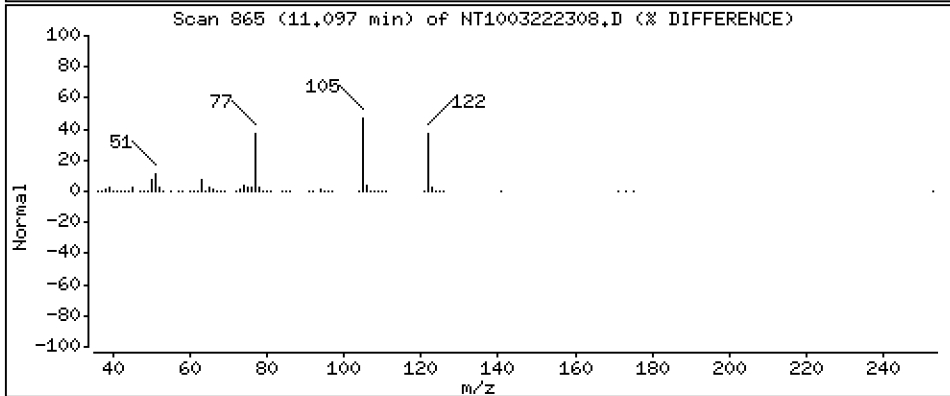
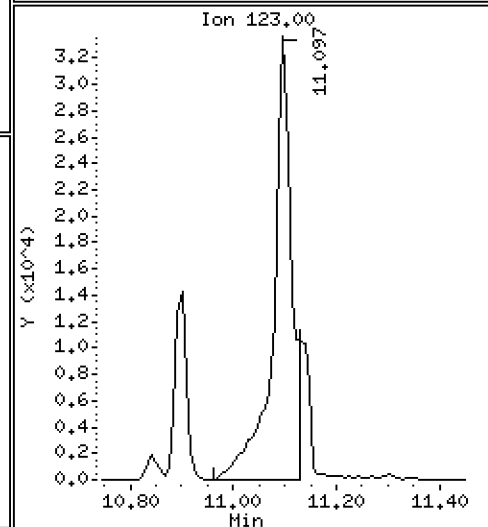
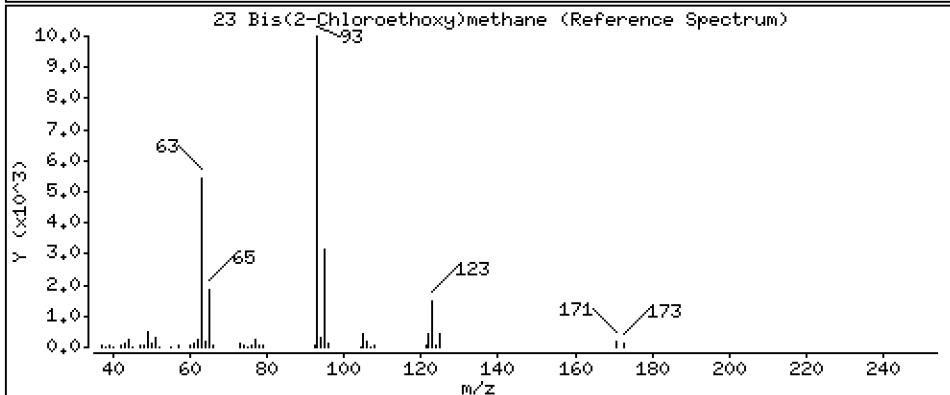
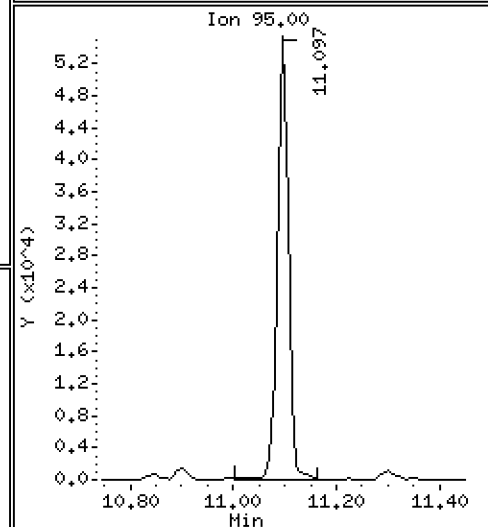
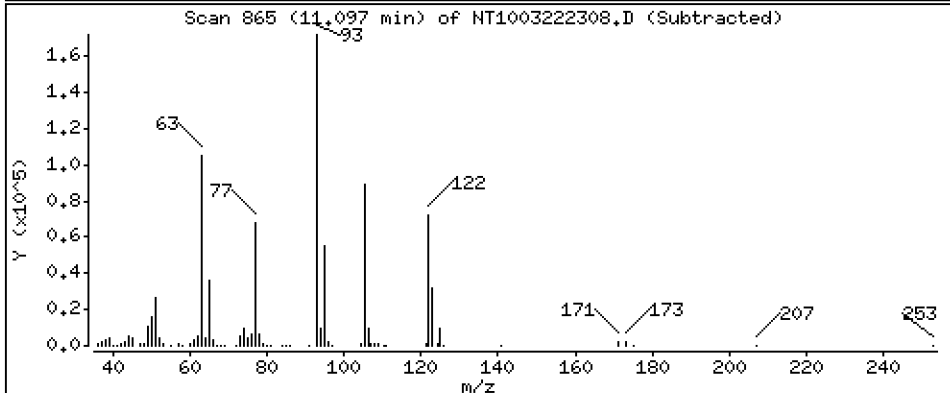
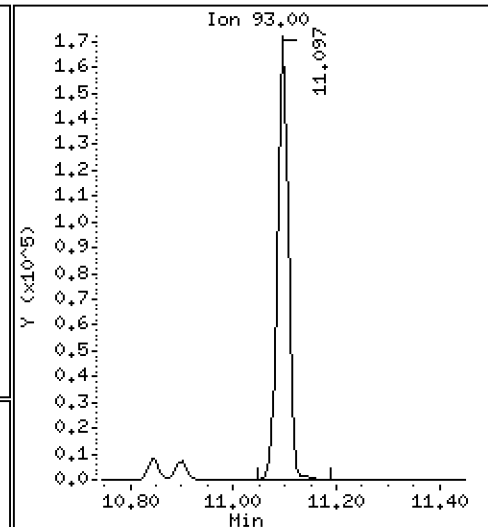
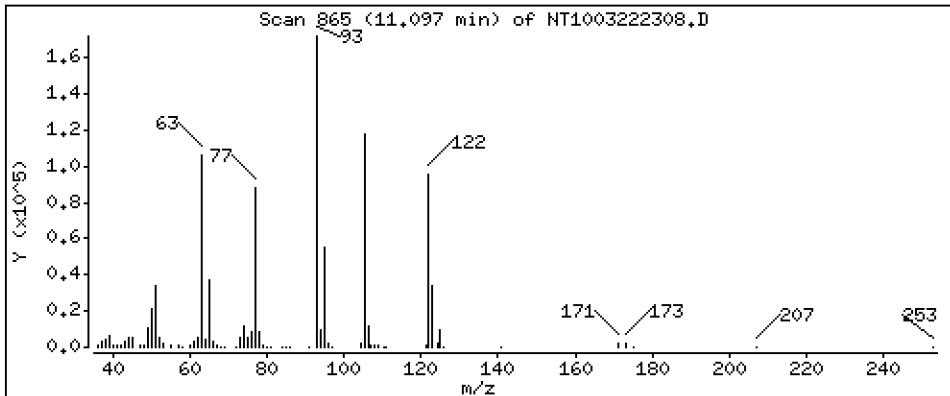
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

23 Bis(2-Chloroethoxy)methane

Concentration: 5,173 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

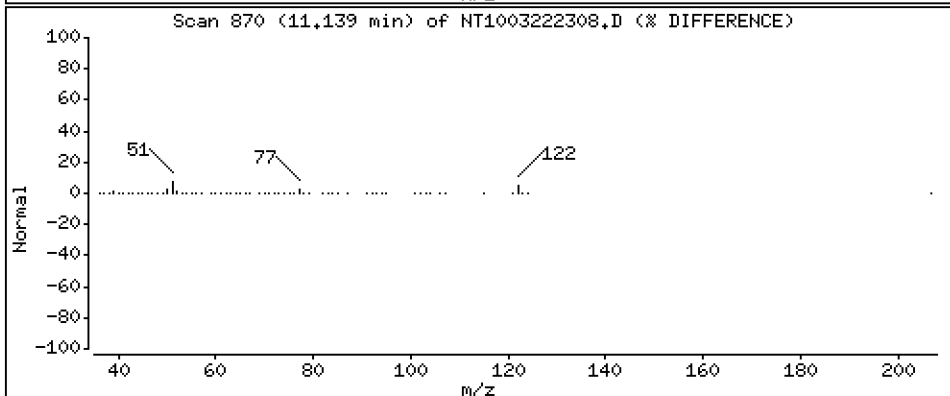
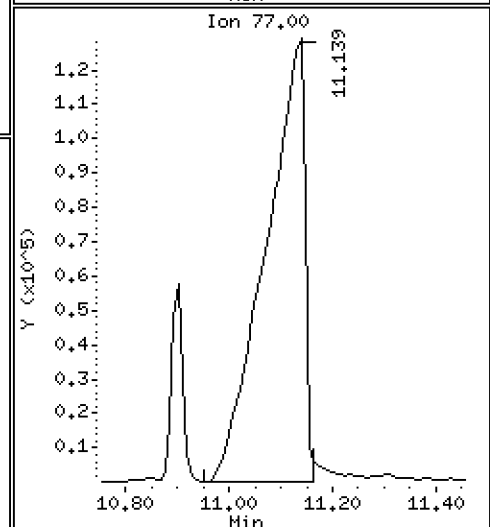
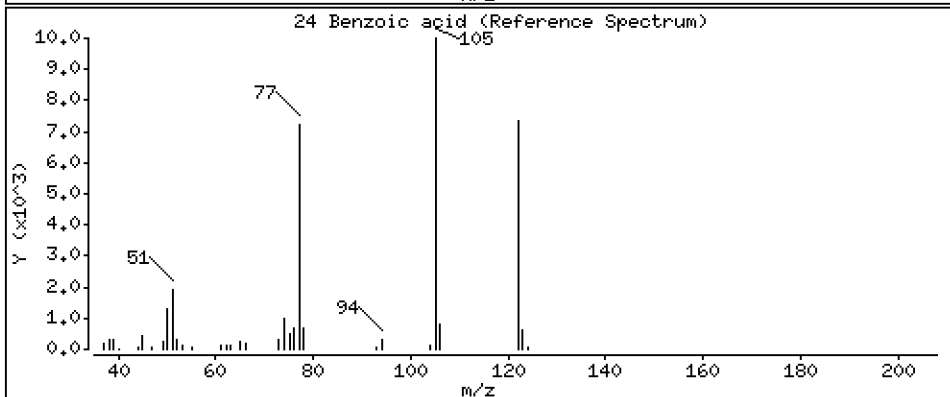
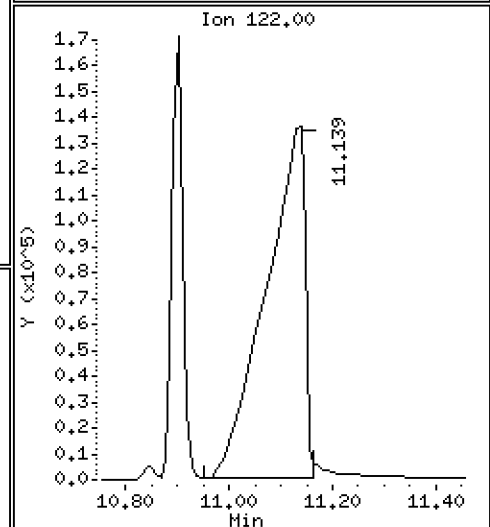
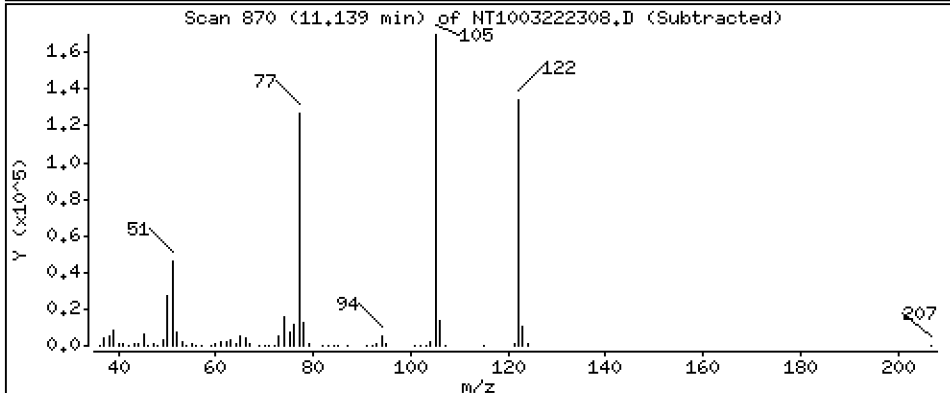
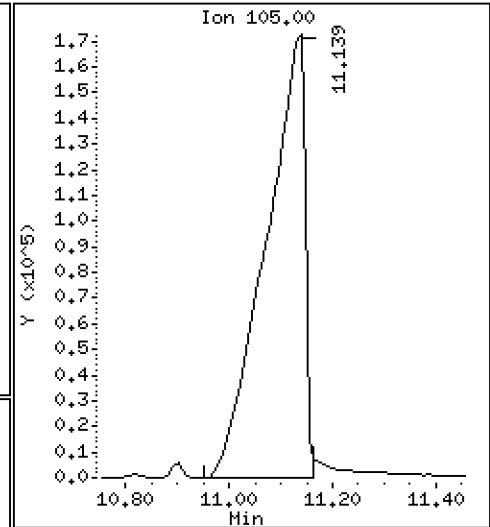
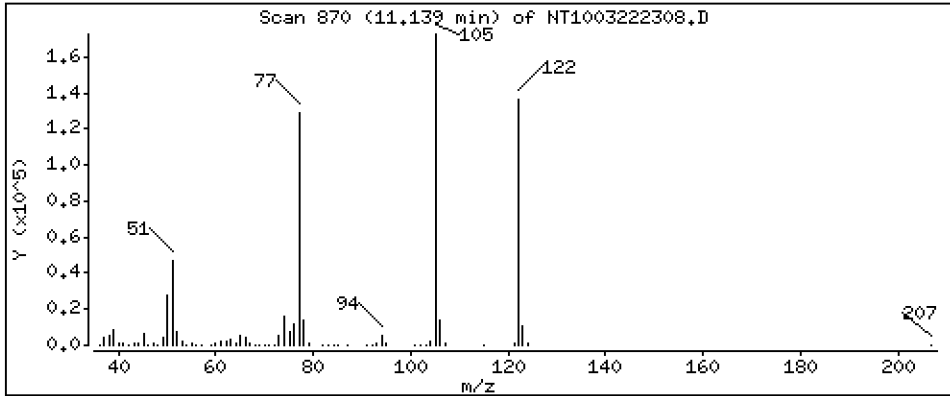
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

24 Benzoic acid

Concentration: 29,74 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

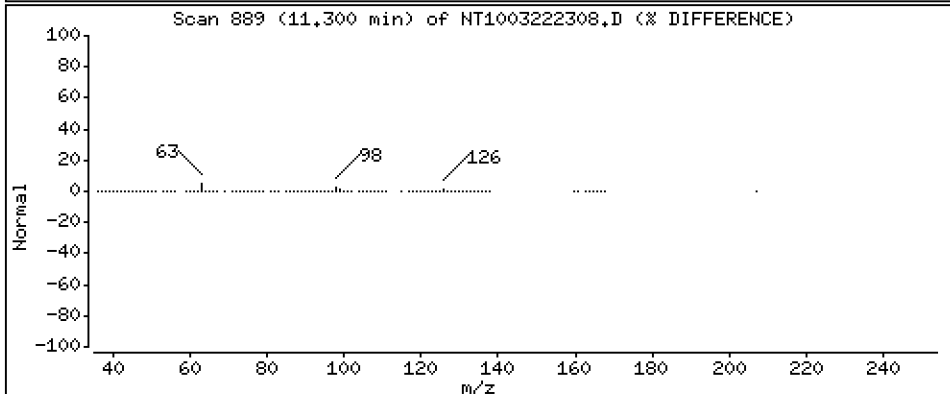
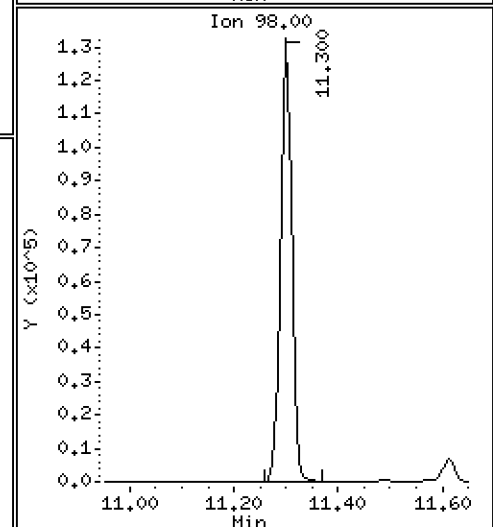
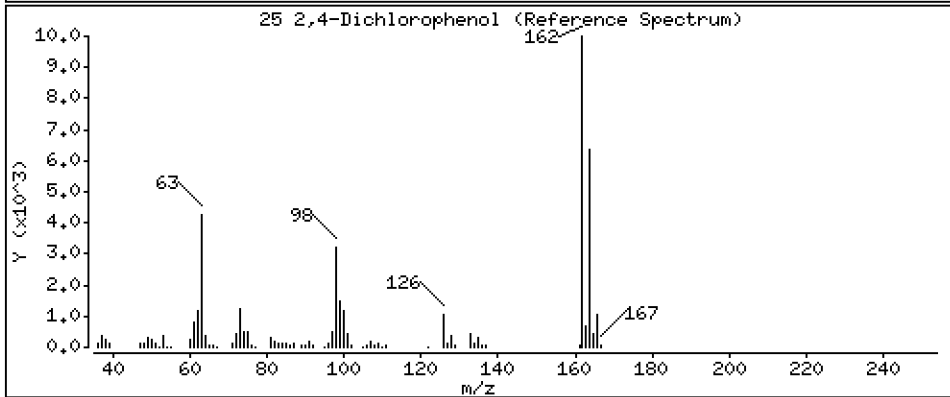
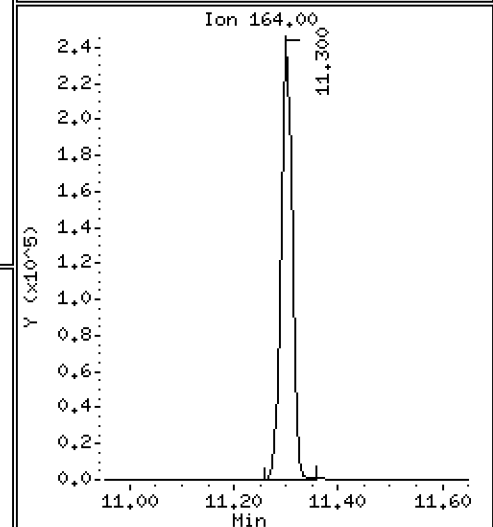
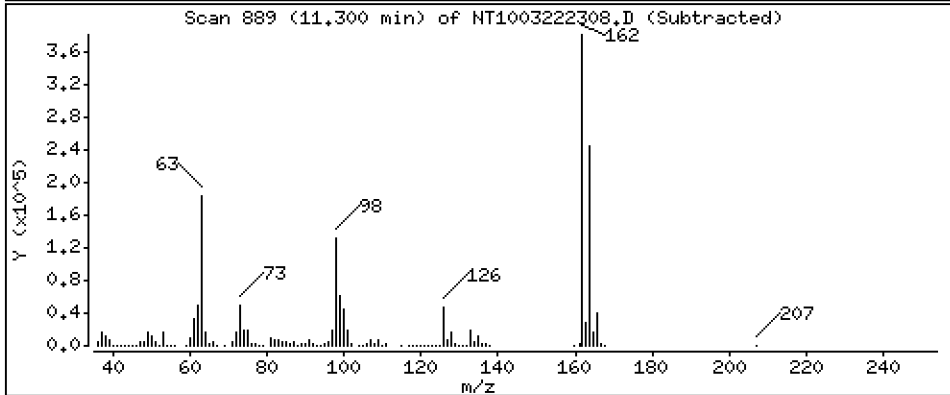
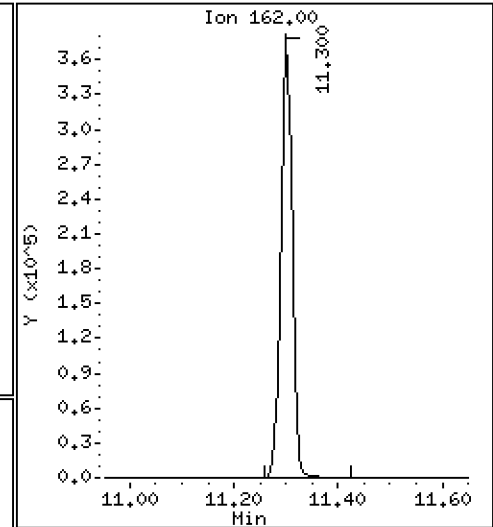
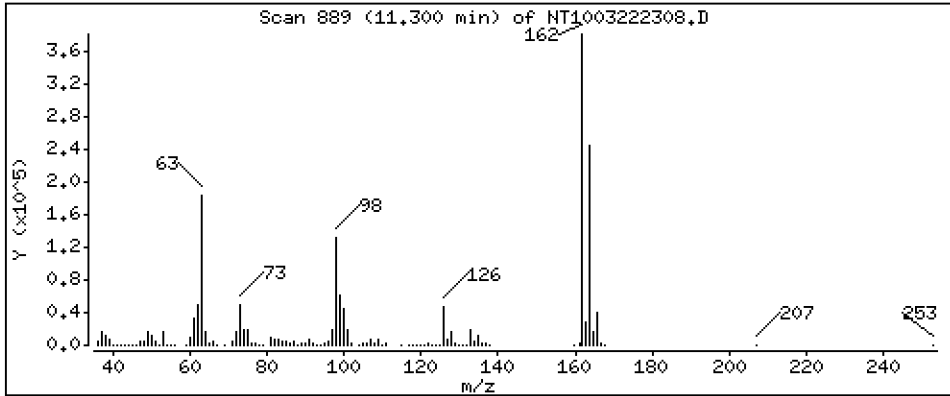
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 15,27 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

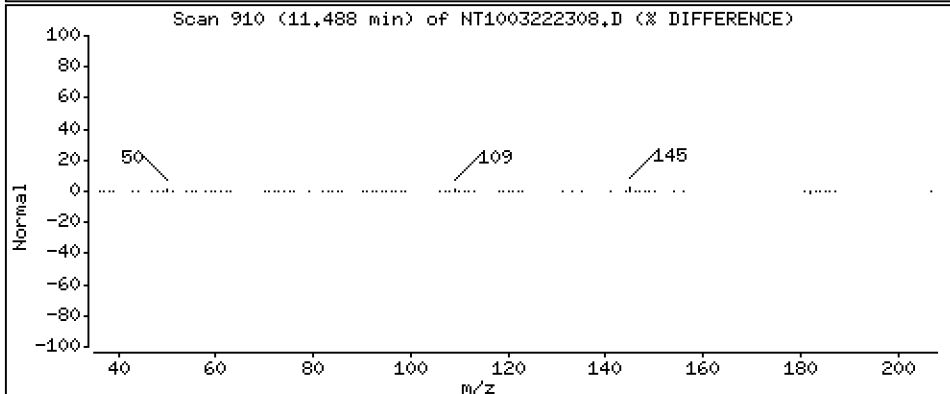
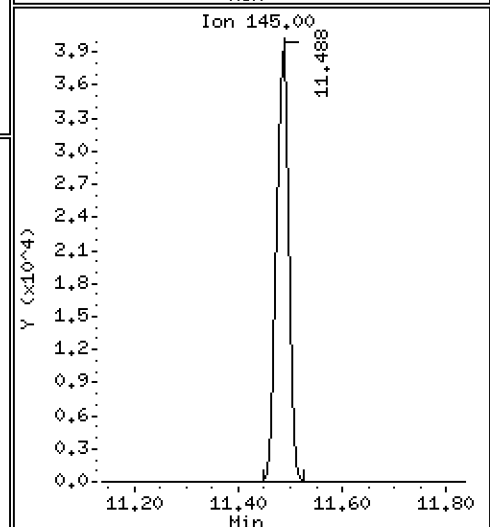
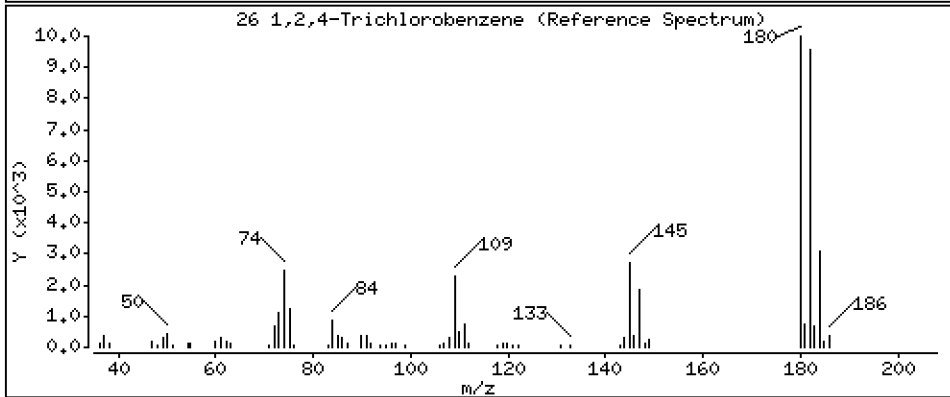
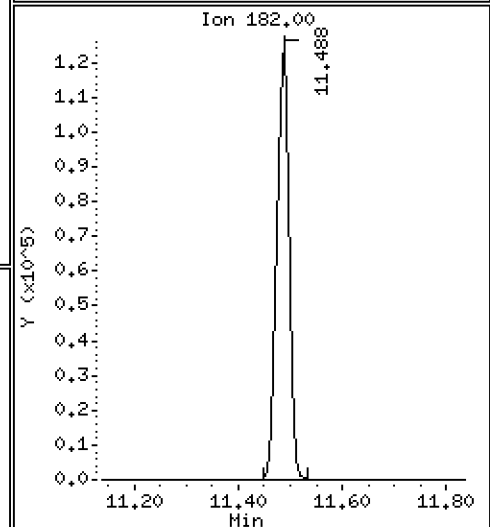
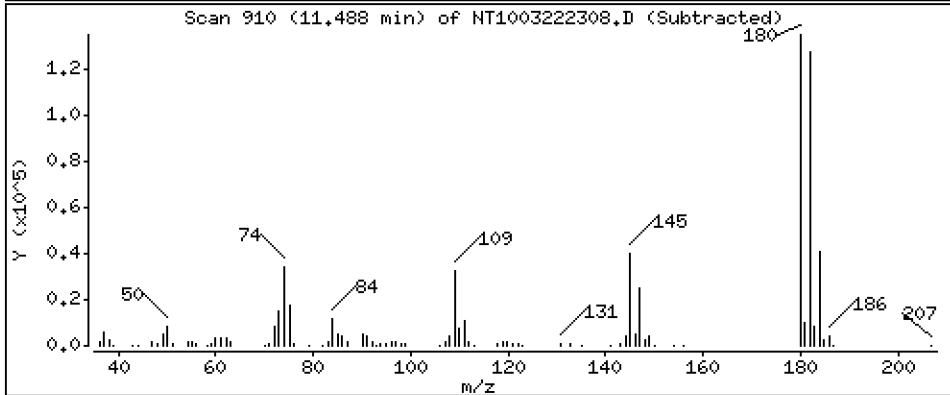
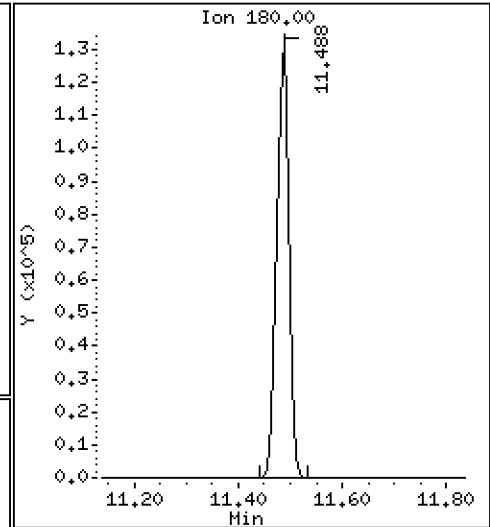
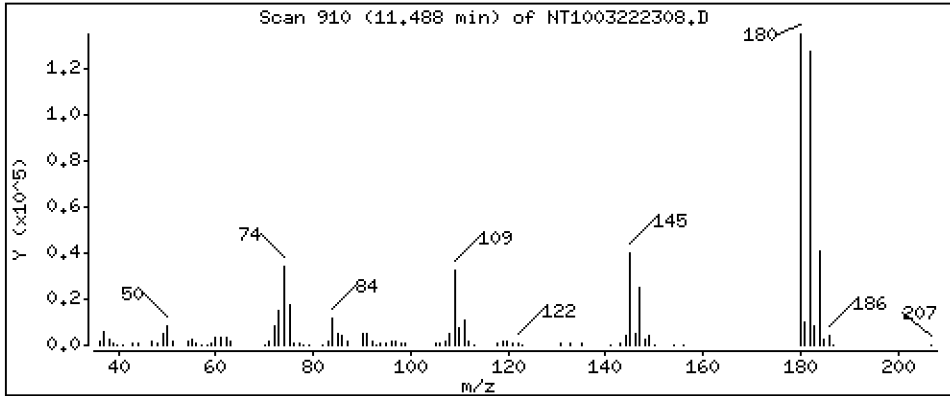
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

26 1,2,4-Trichlorobenzene

Concentration: 4.321 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

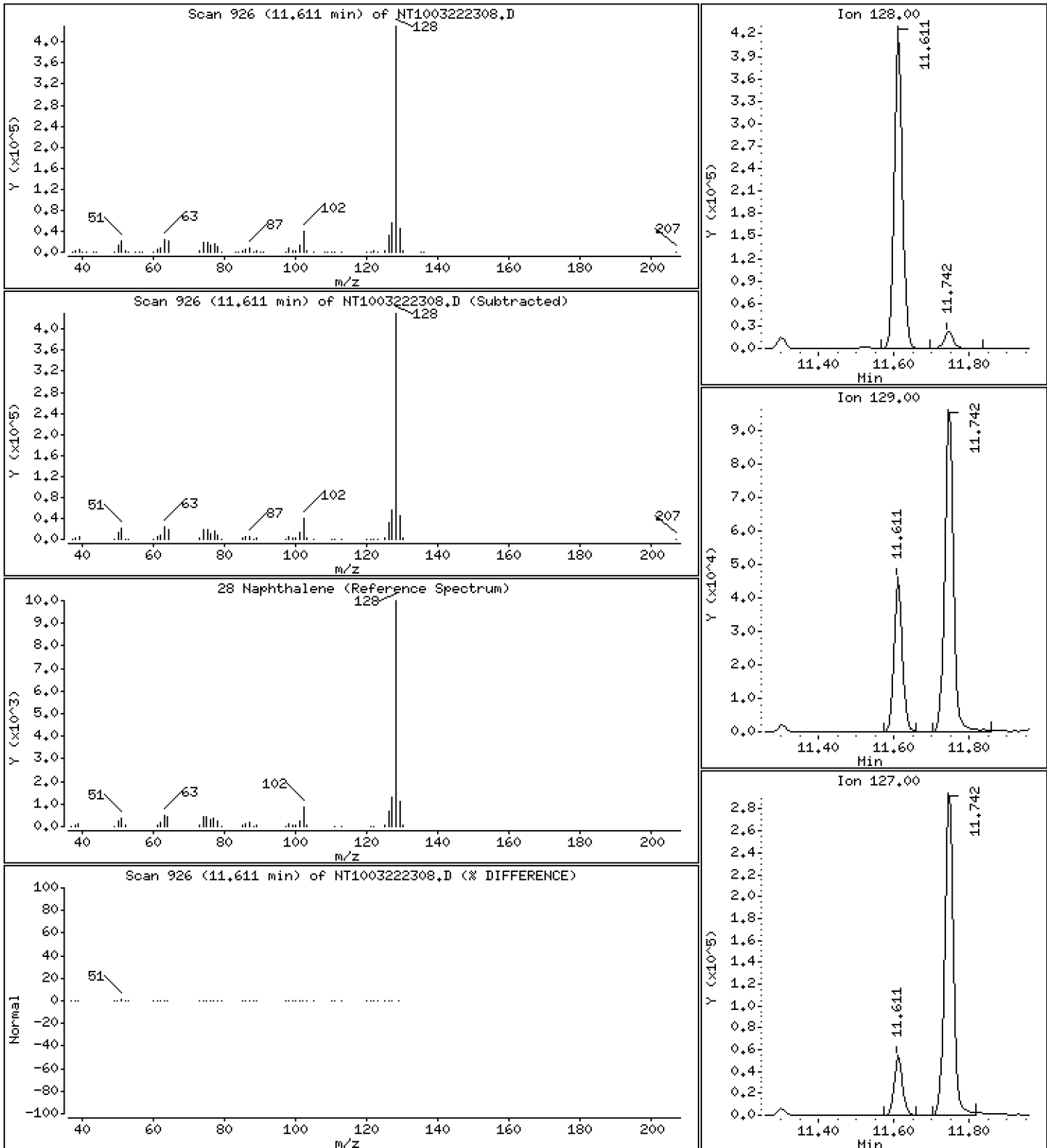
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 4,322 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

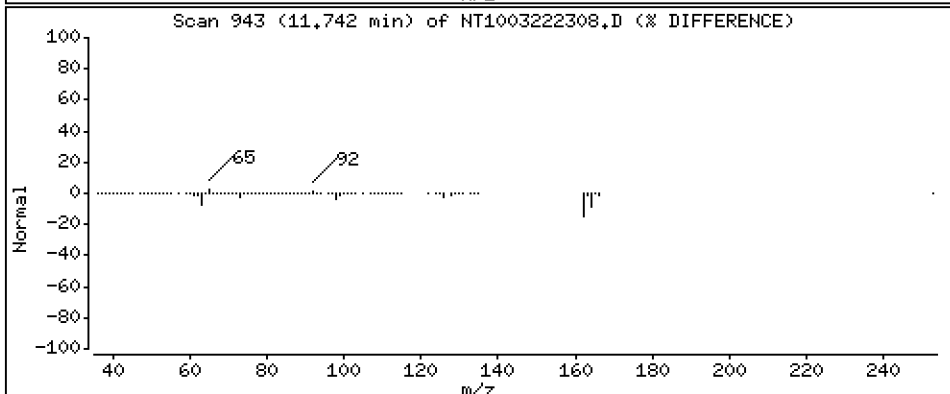
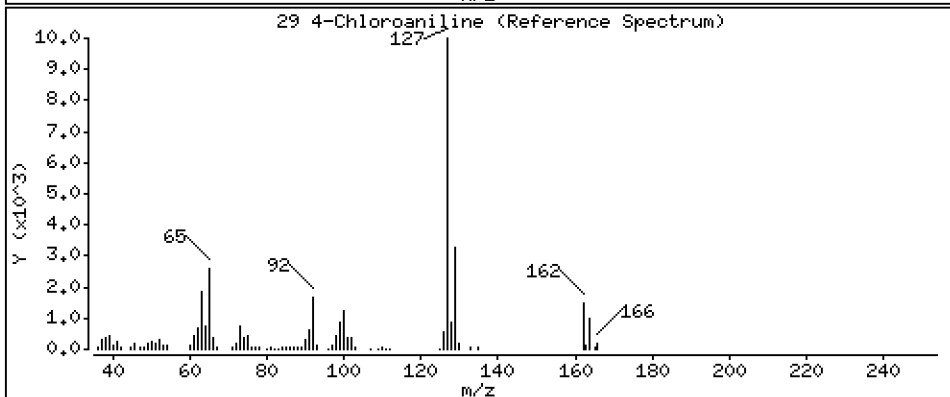
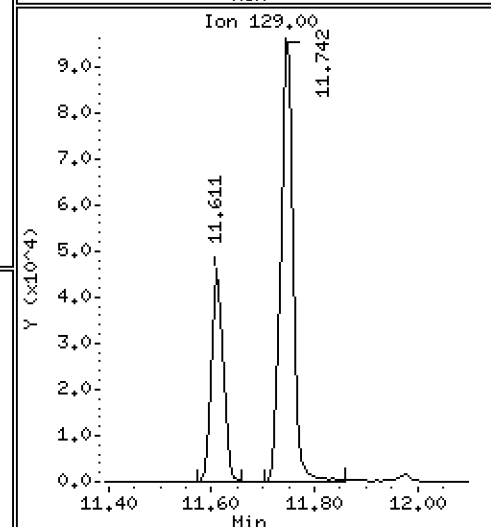
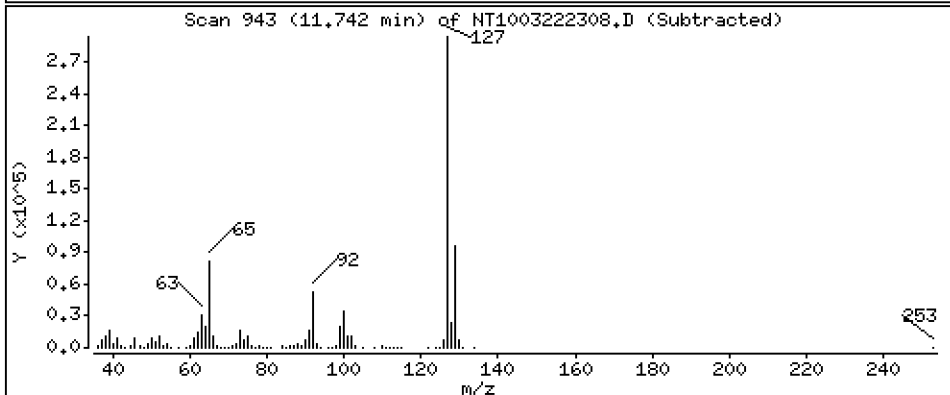
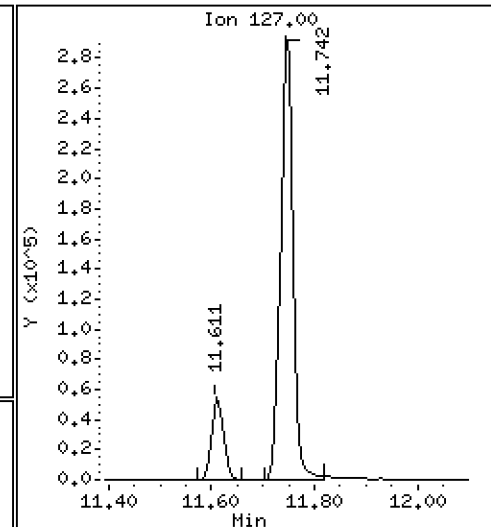
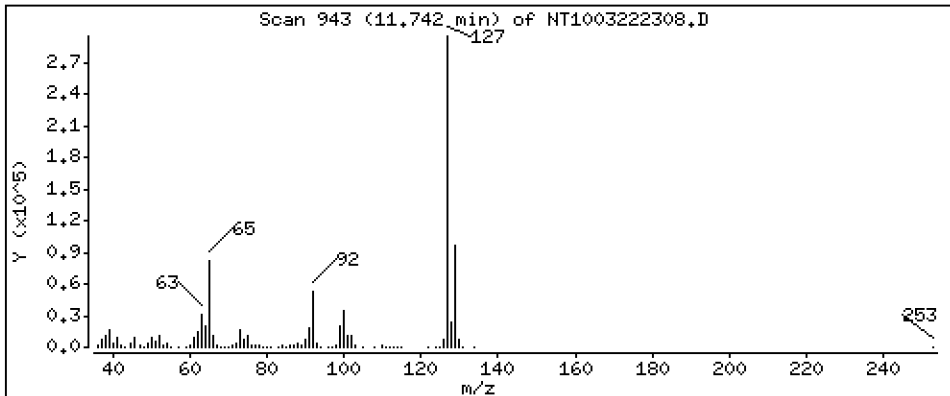
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

29 4-Chloroaniline

Concentration: 8,416 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

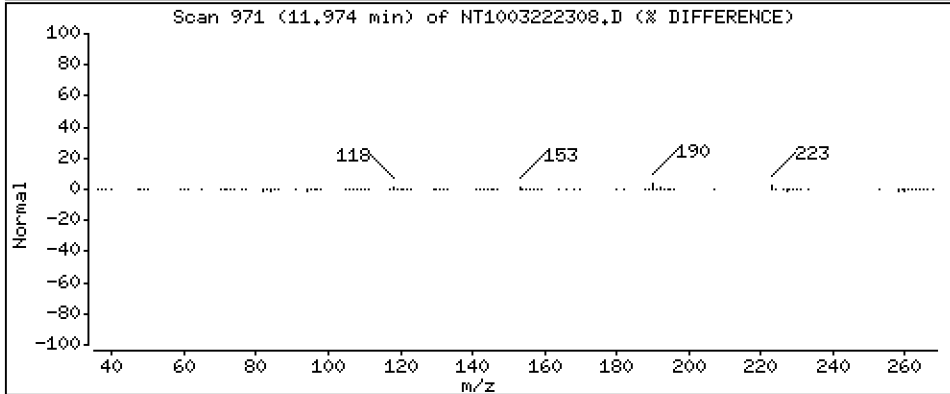
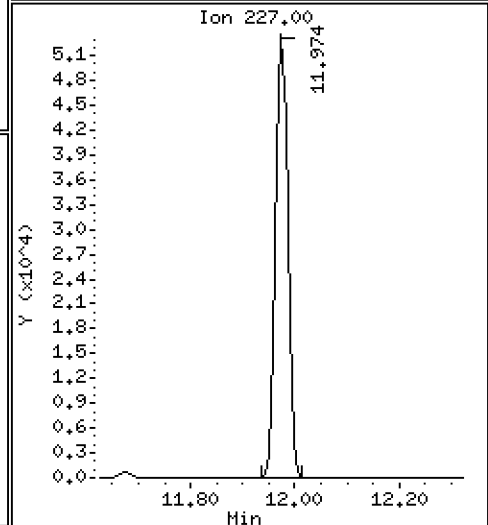
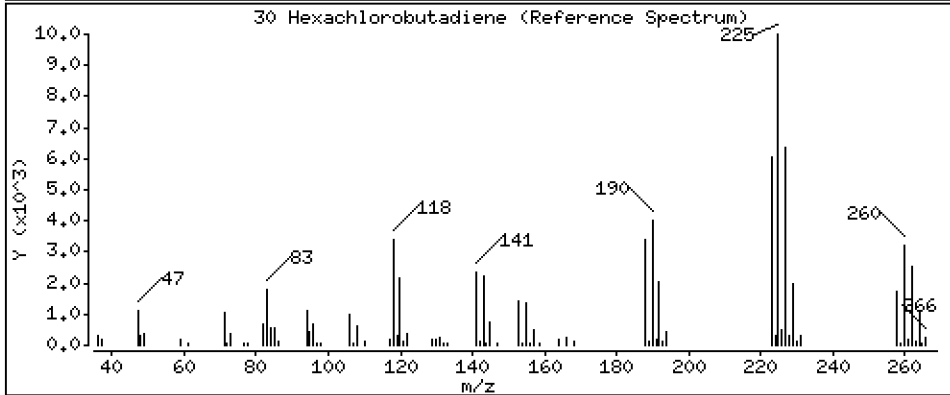
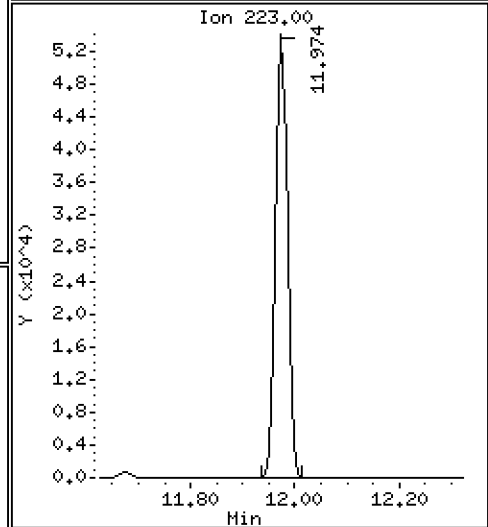
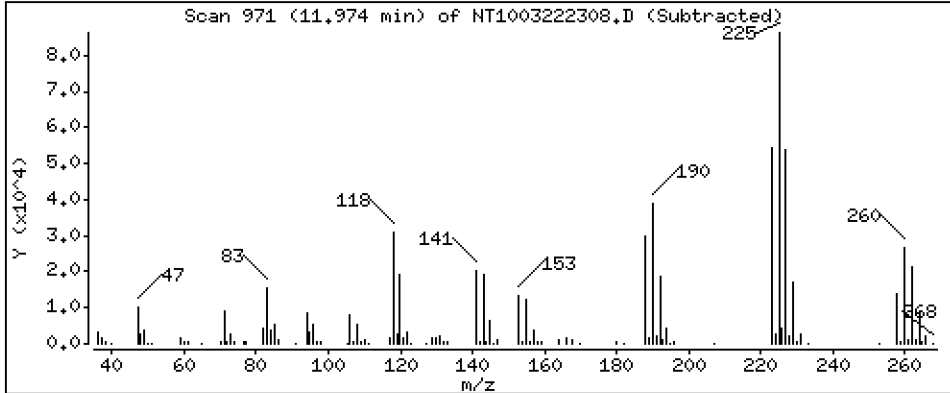
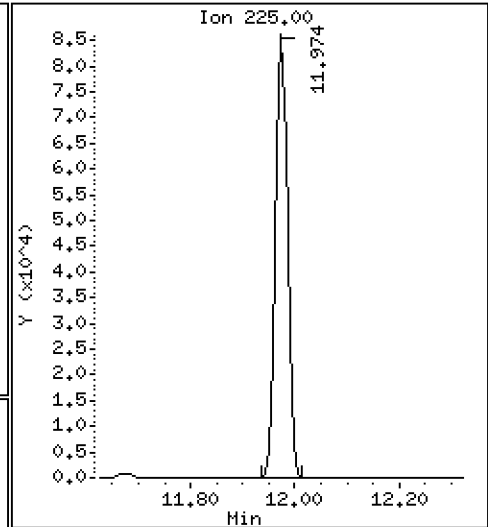
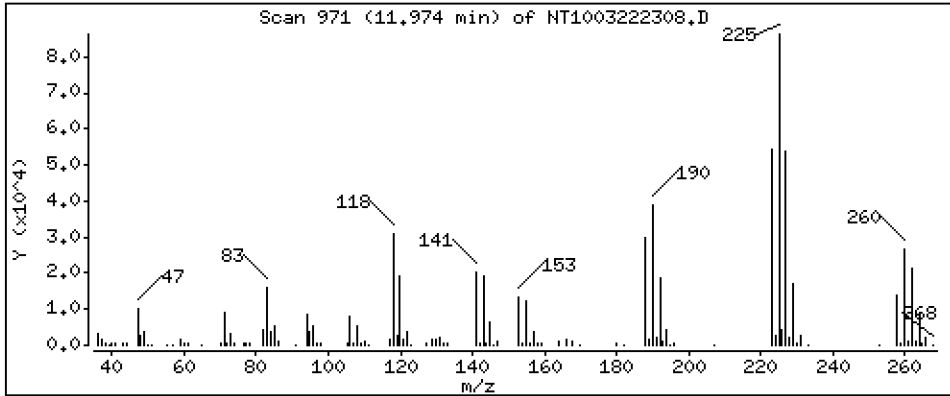
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 4,653 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

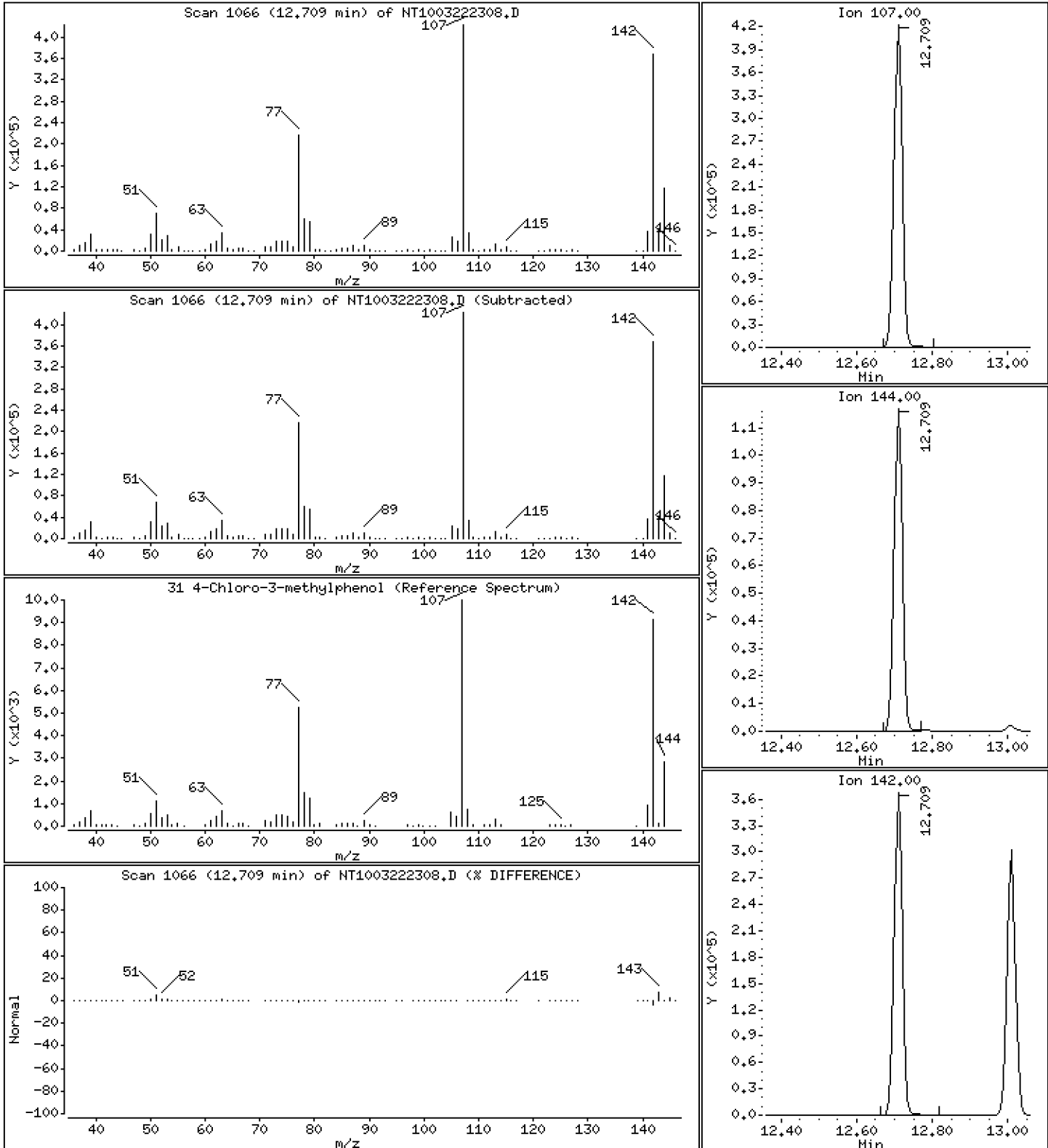
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

31 4-Chloro-3-methylphenol

Concentration: 13,74 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

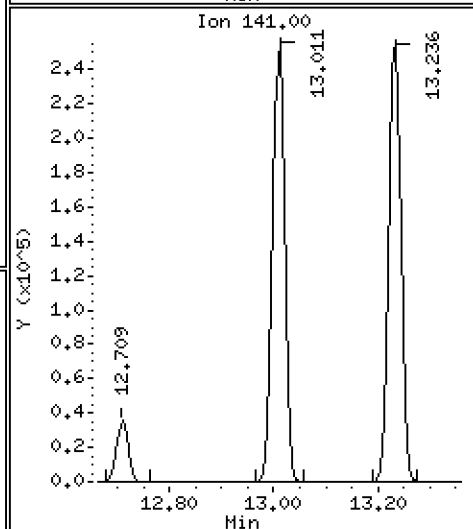
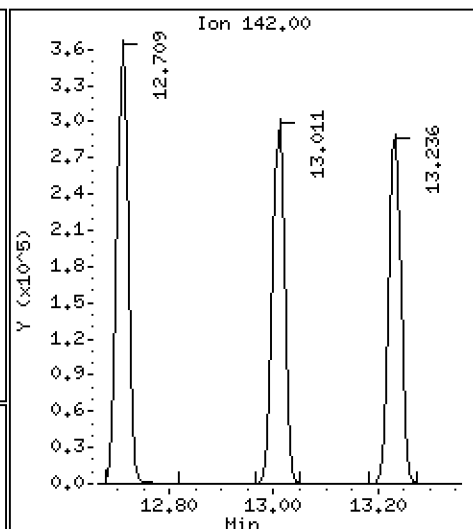
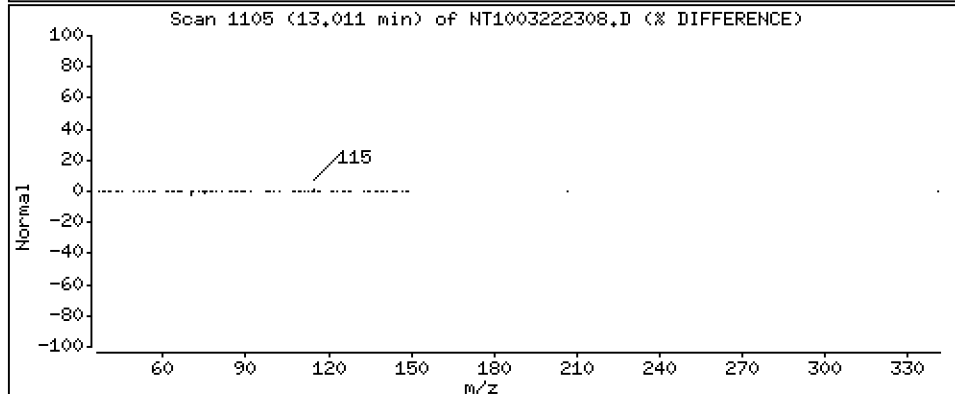
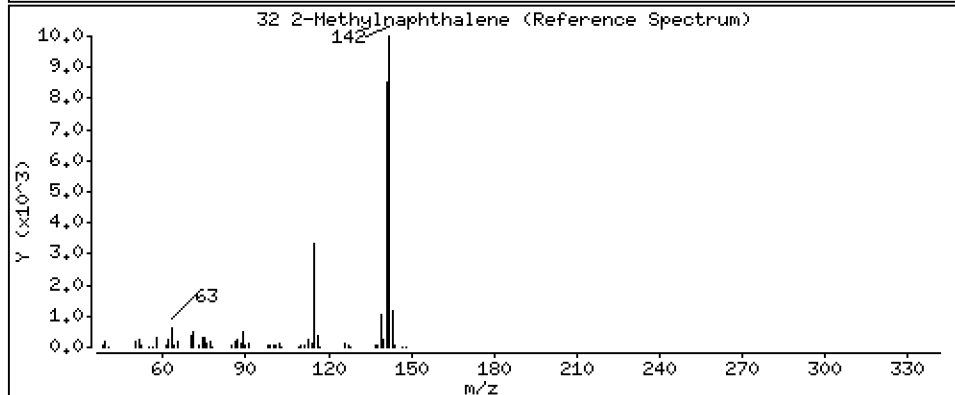
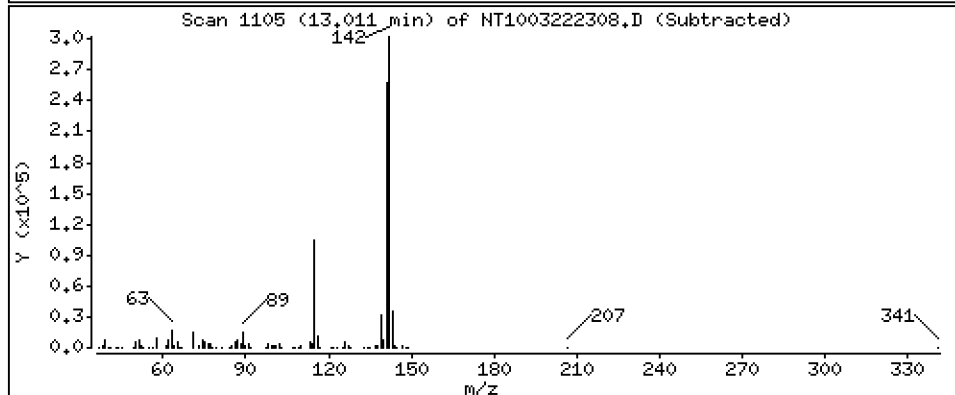
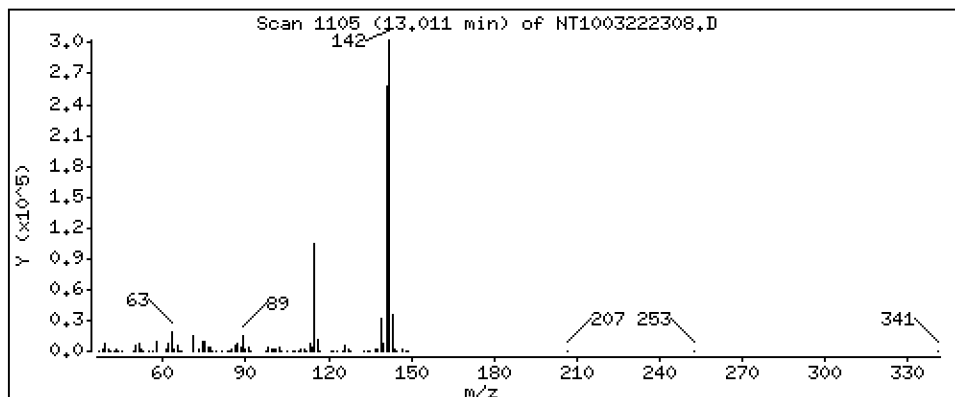
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 4,312 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

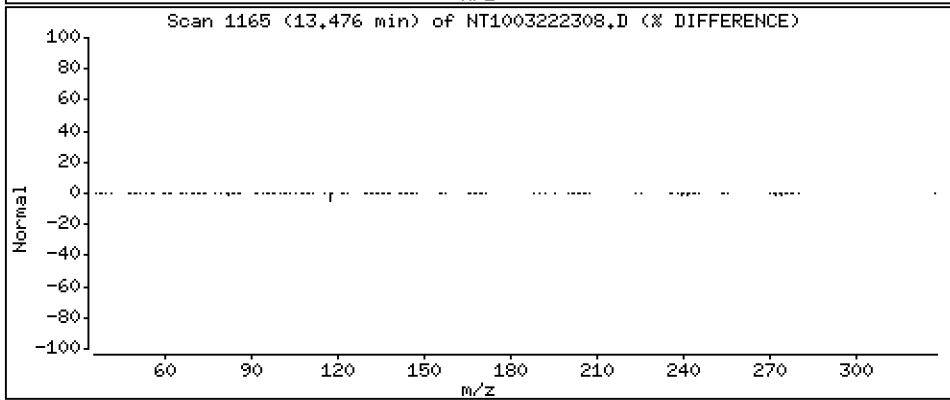
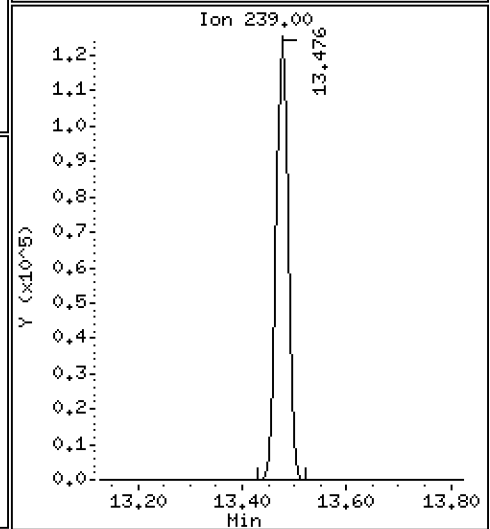
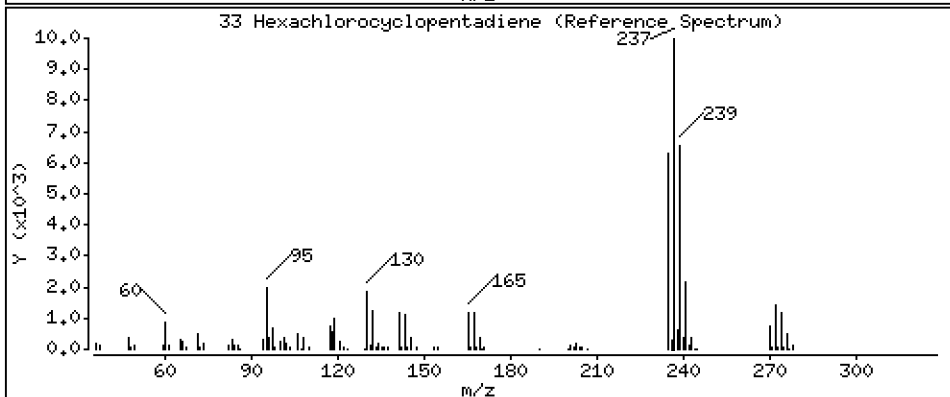
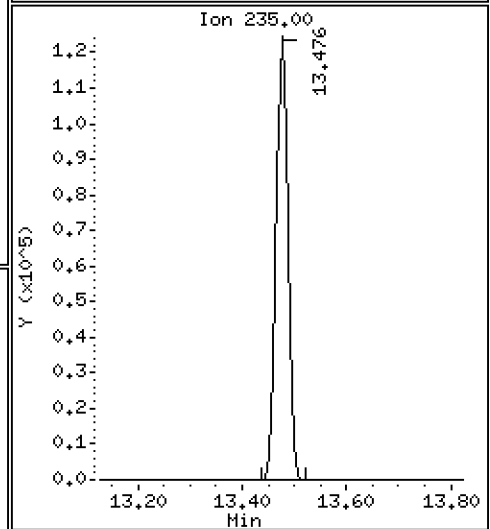
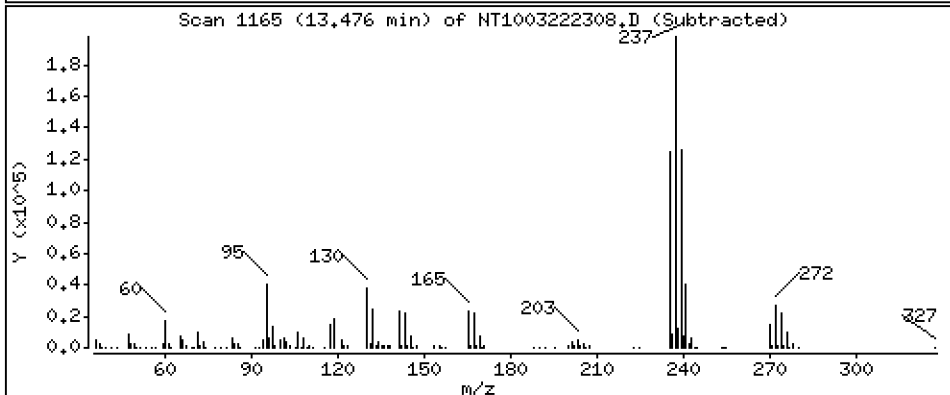
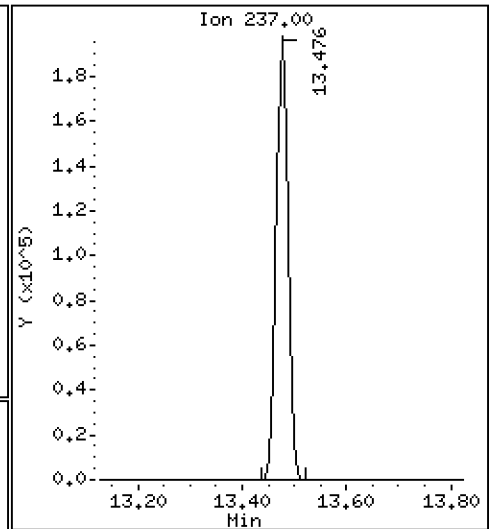
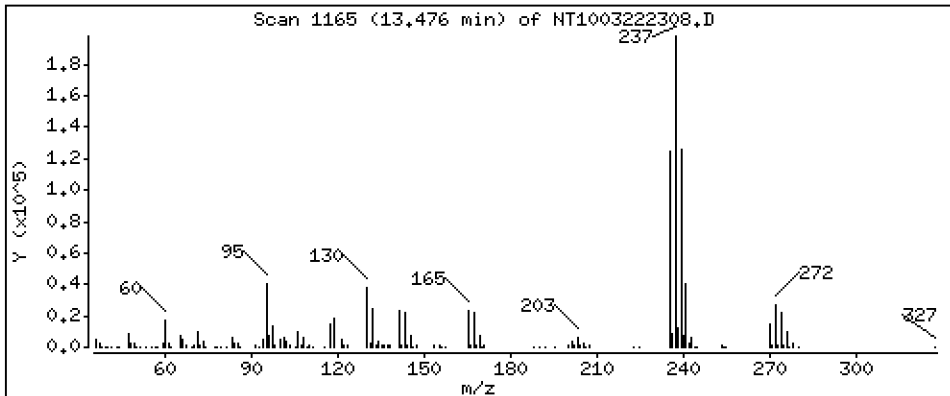
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

33 Hexachlorocyclopentadiene

Concentration: 10,15 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

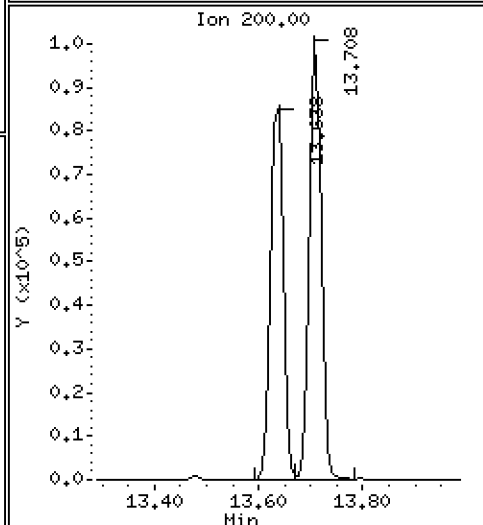
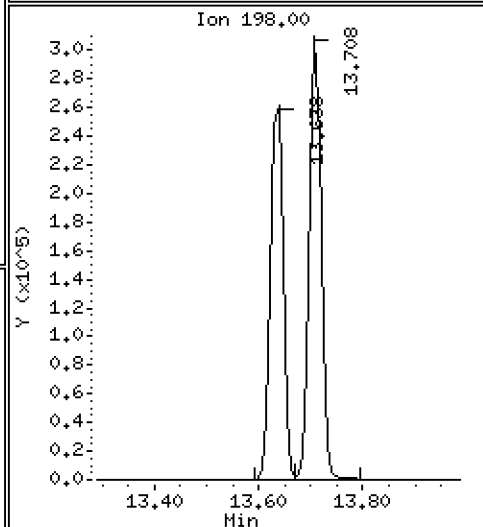
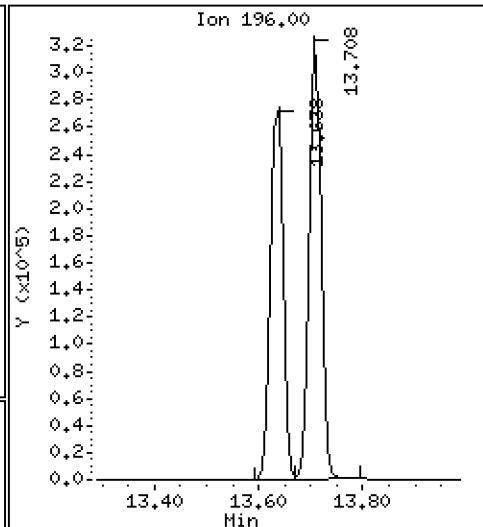
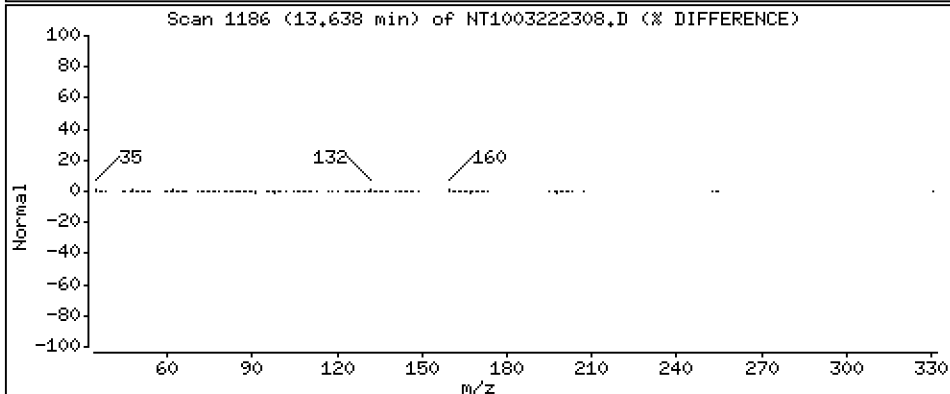
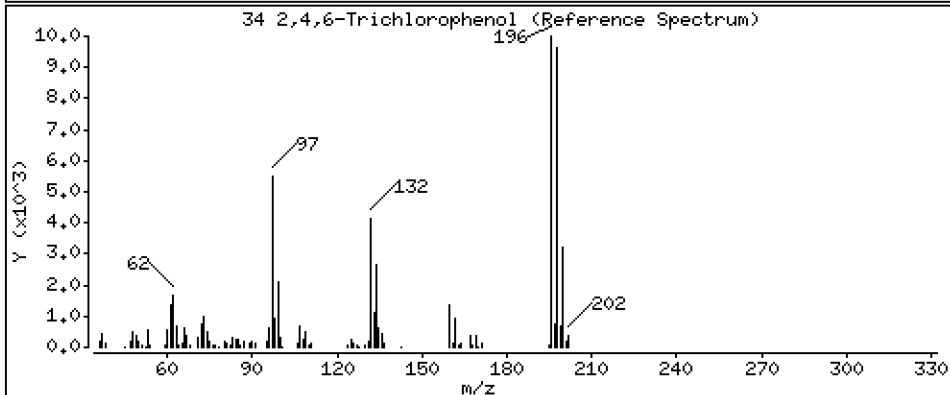
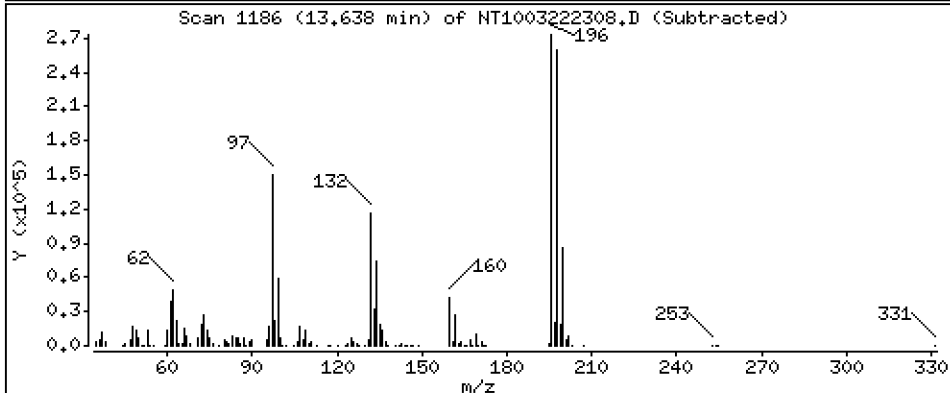
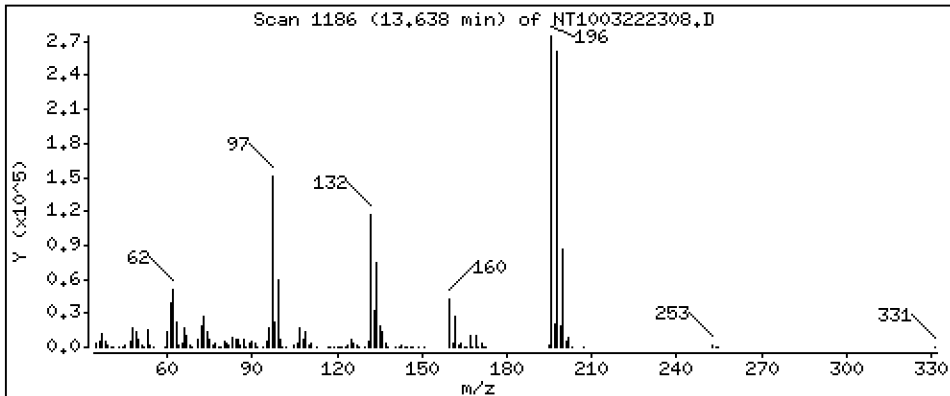
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

34 2,4,6-Trichlorophenol

Concentration: 14,21 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

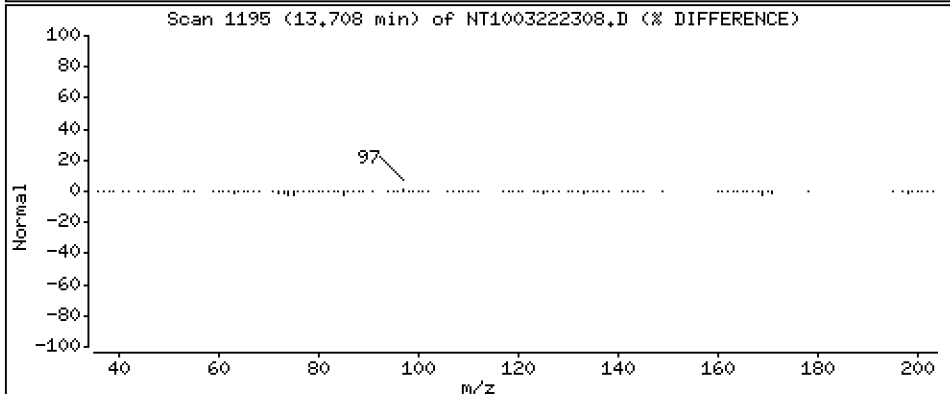
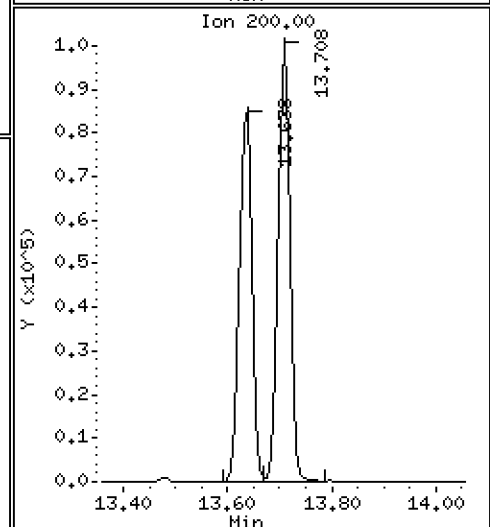
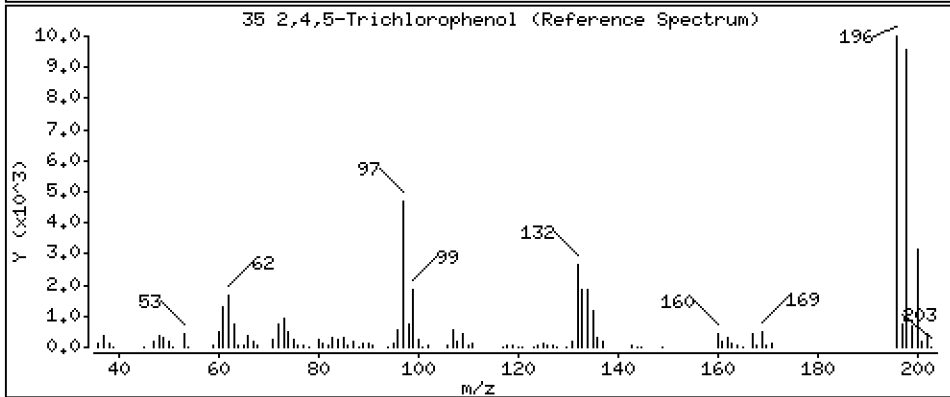
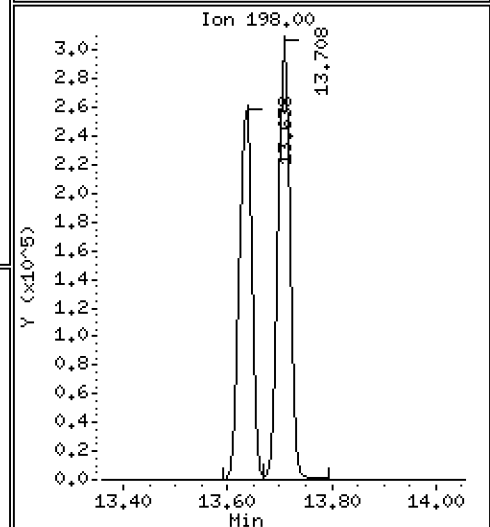
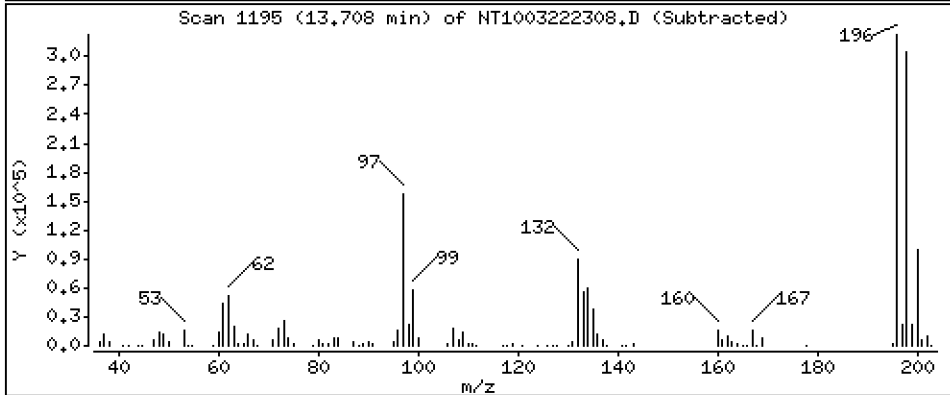
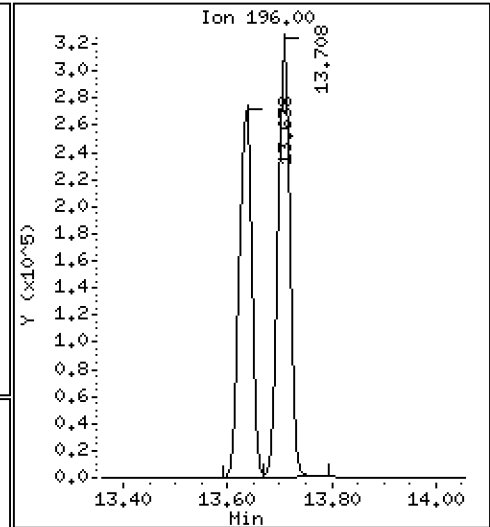
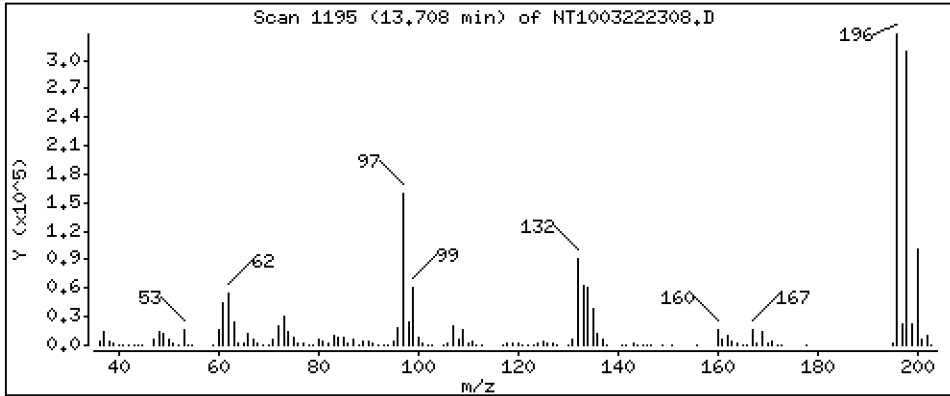
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

35 2,4,5-Trichlorophenol

Concentration: 13,88 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

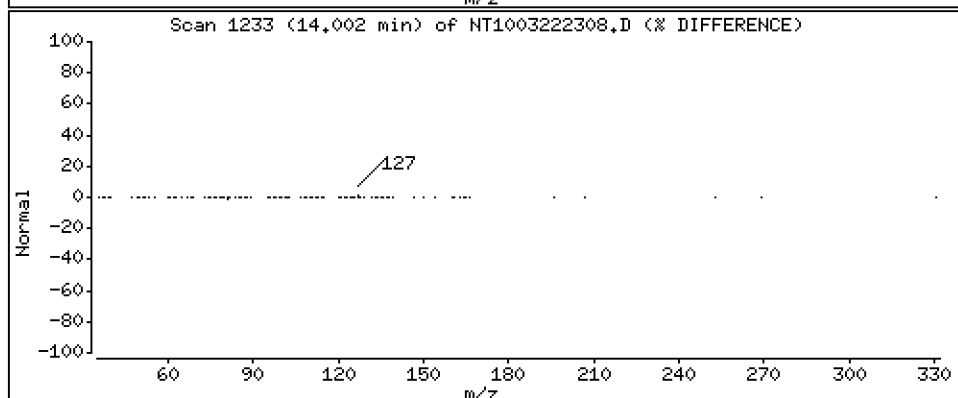
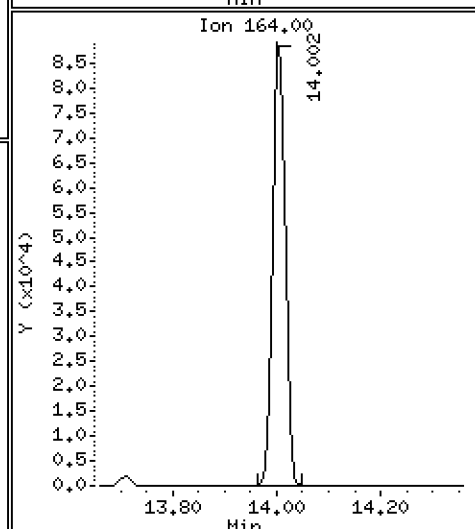
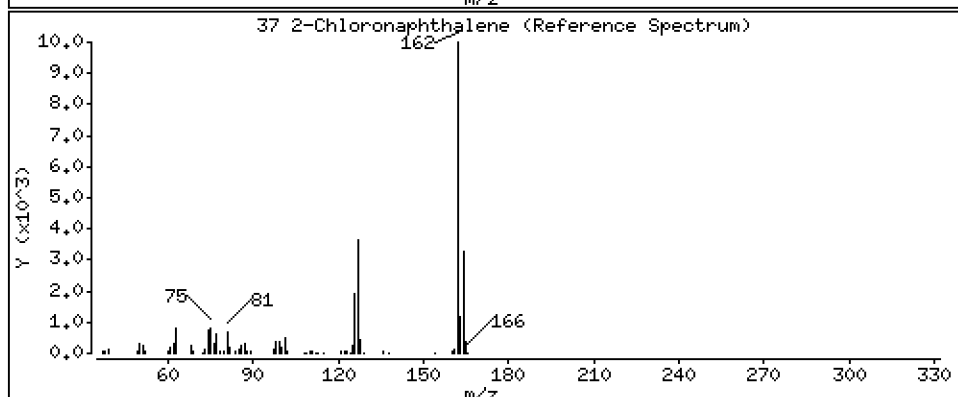
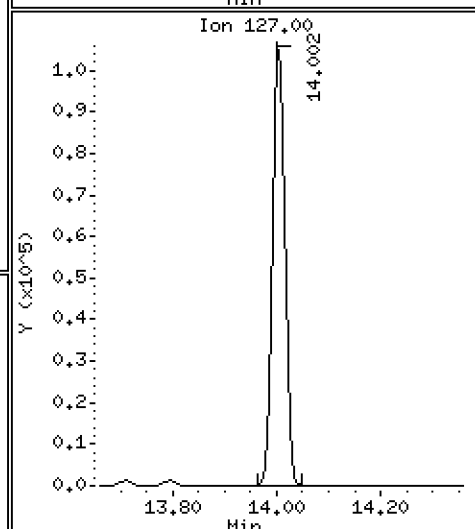
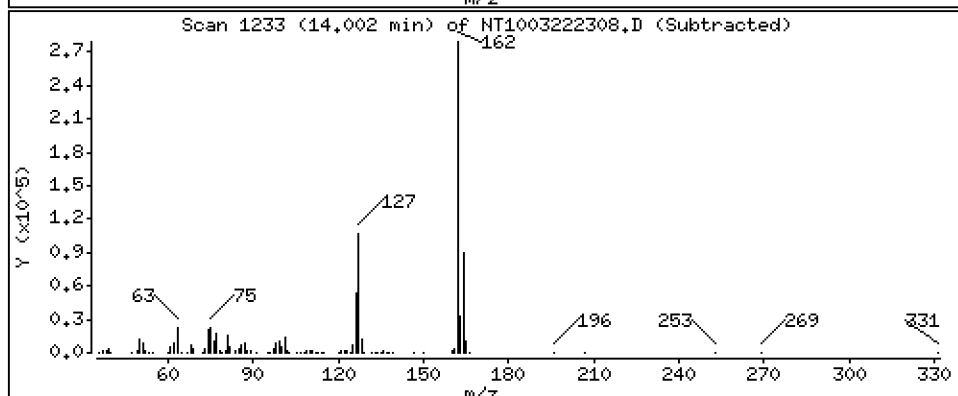
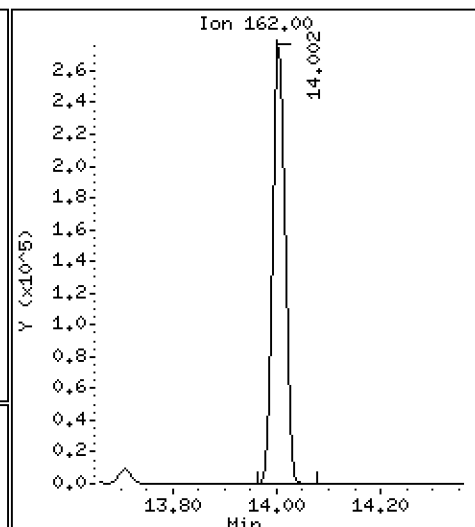
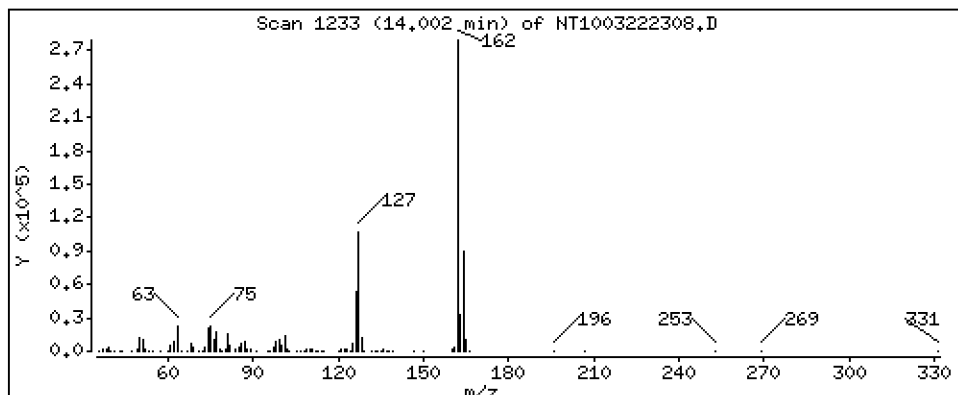
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

37 2-Chloronaphthalene

Concentration: 4,385 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

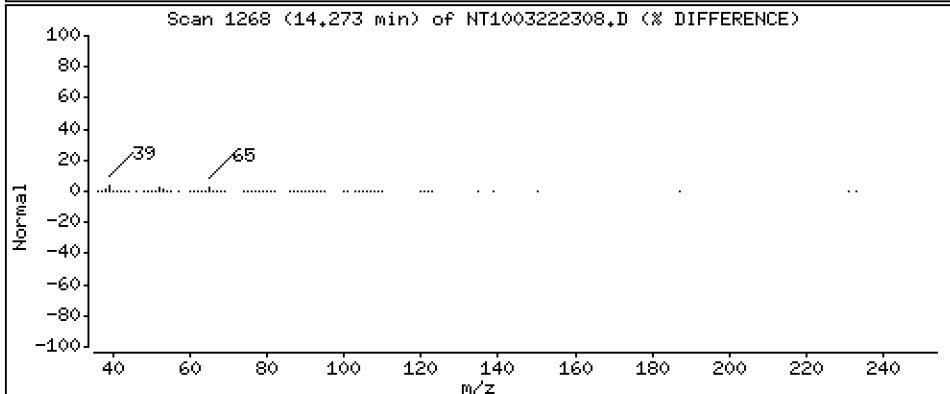
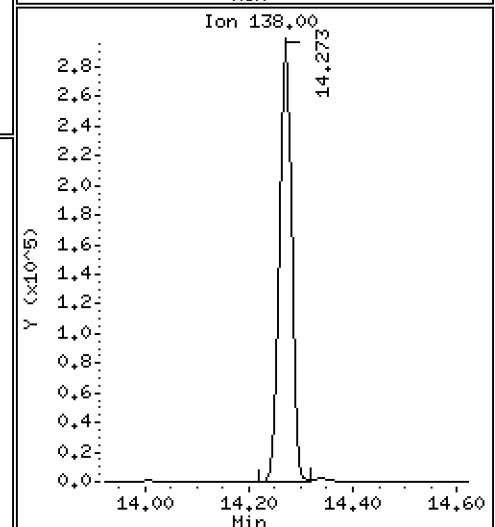
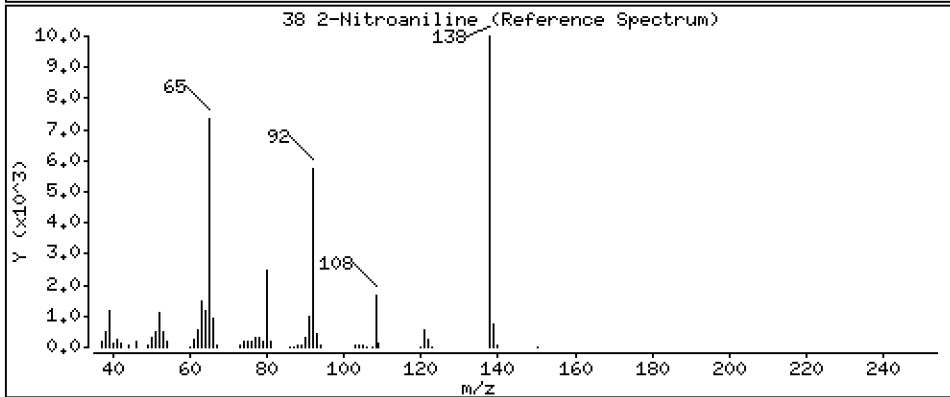
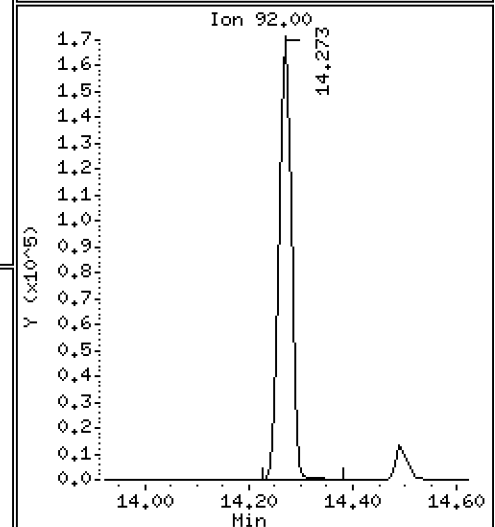
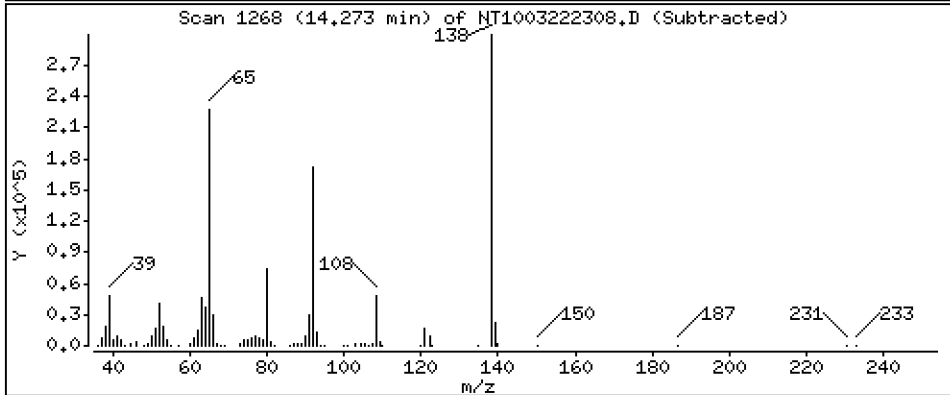
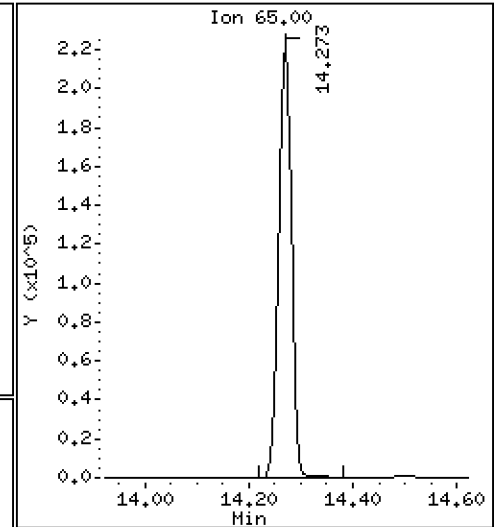
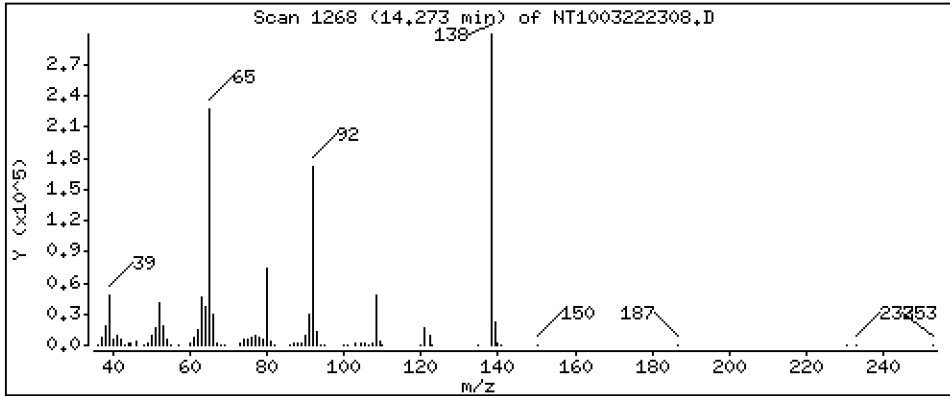
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

38 2-Nitroaniline

Concentration: 12,76 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

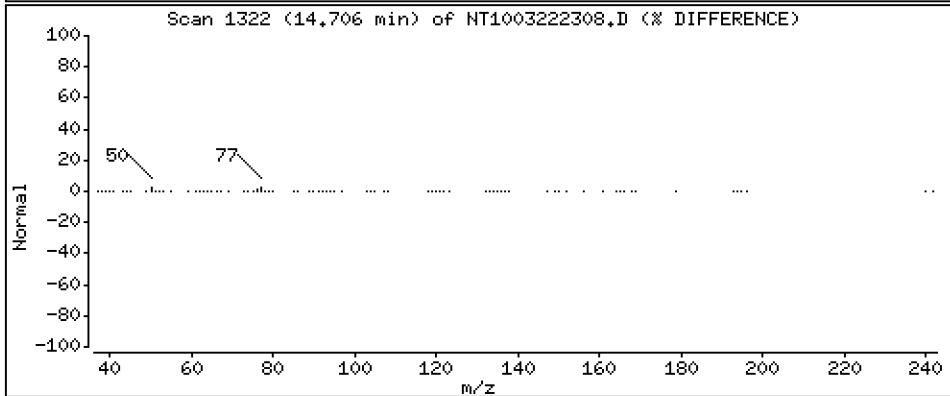
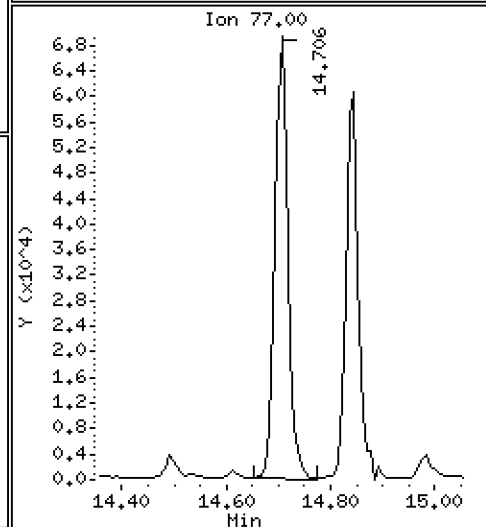
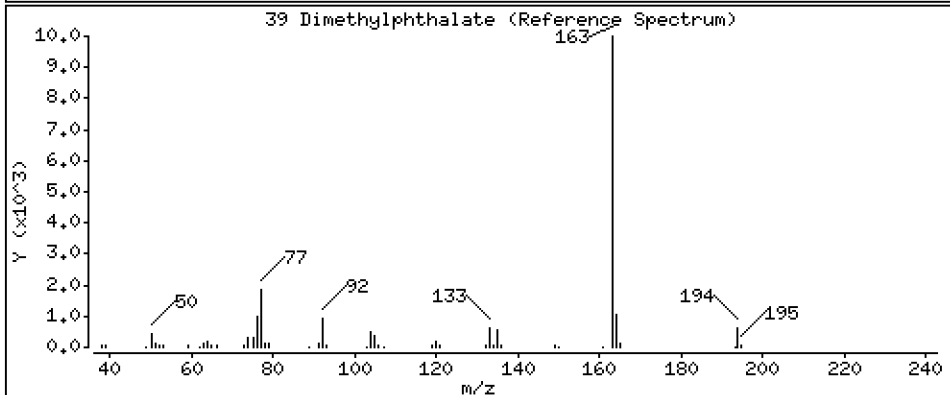
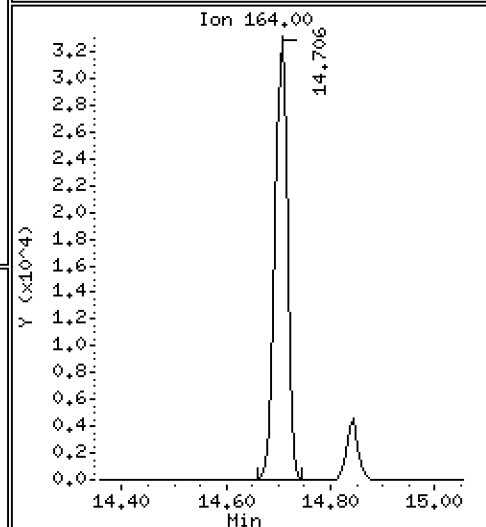
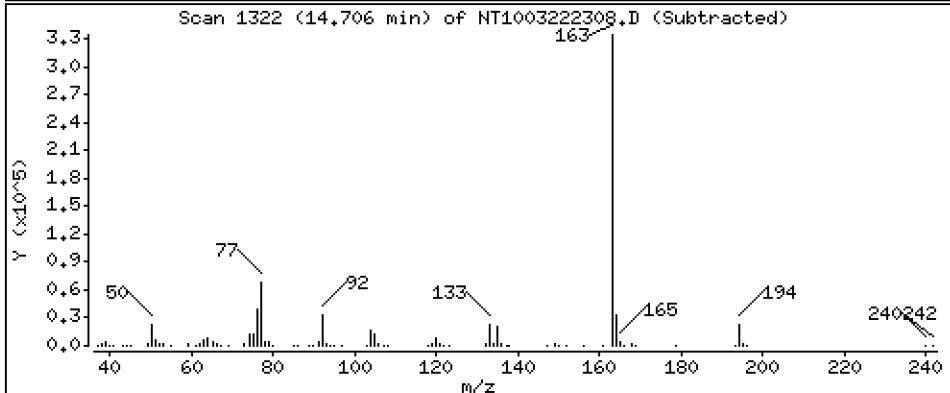
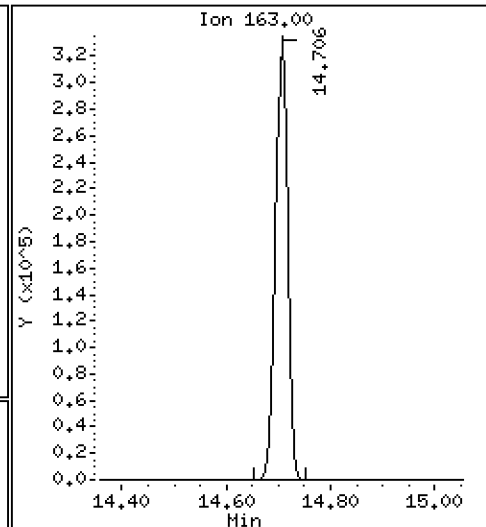
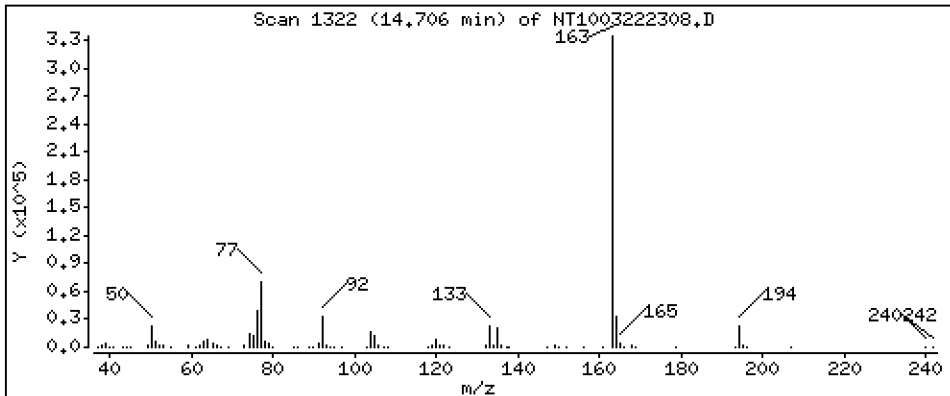
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 5,020 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

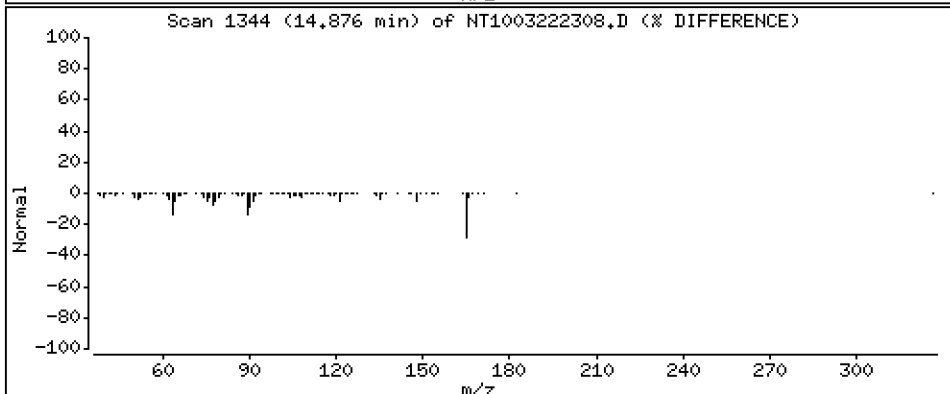
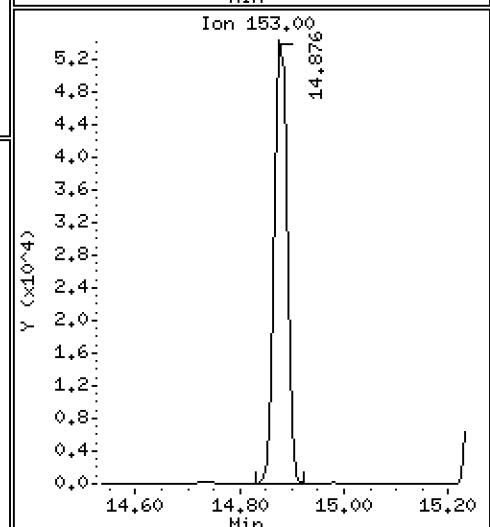
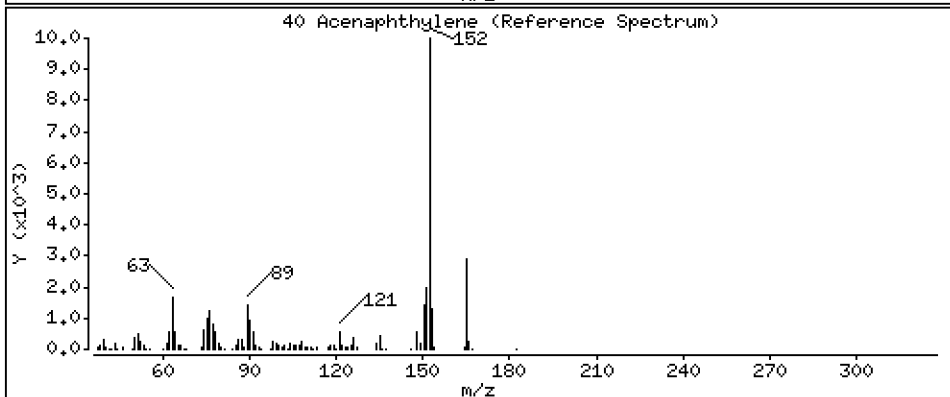
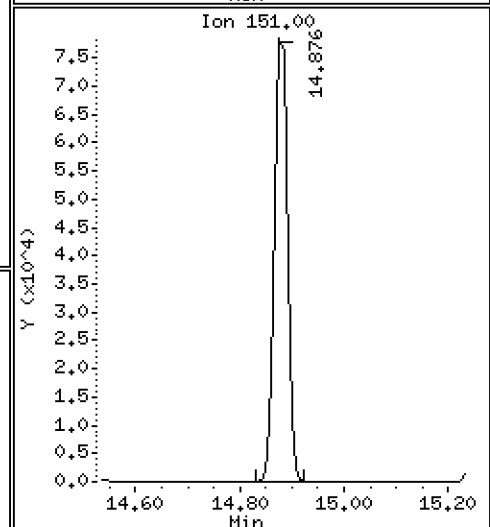
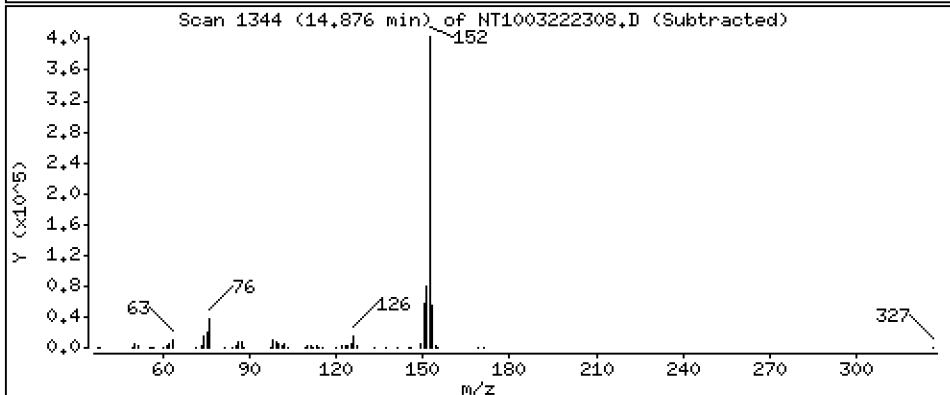
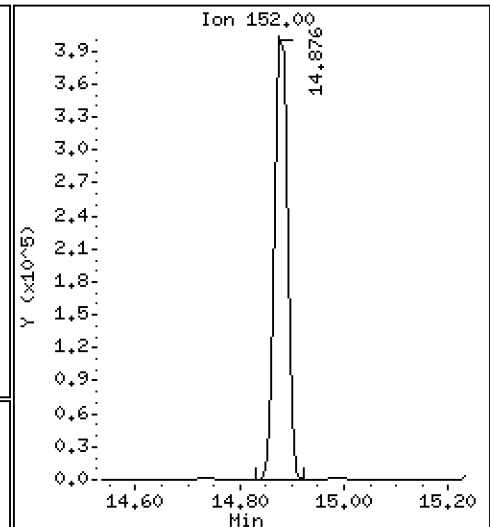
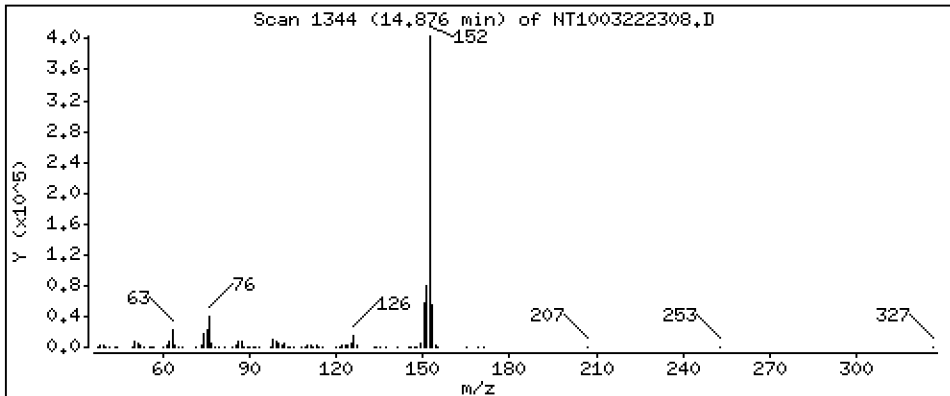
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 4,240 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

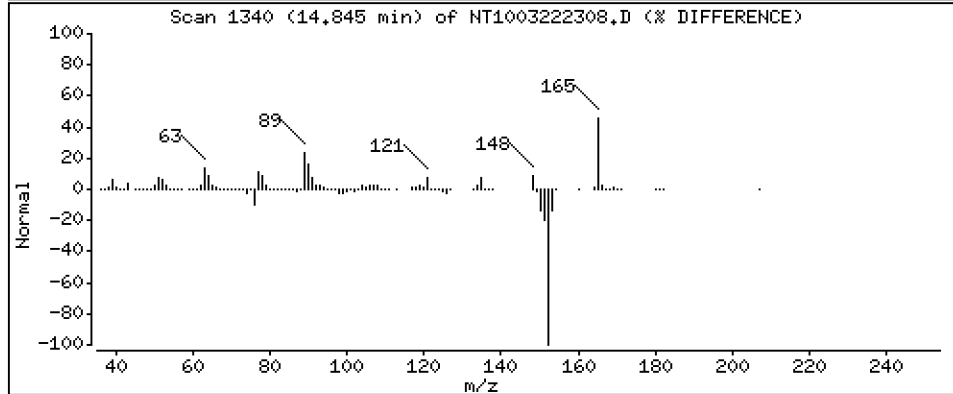
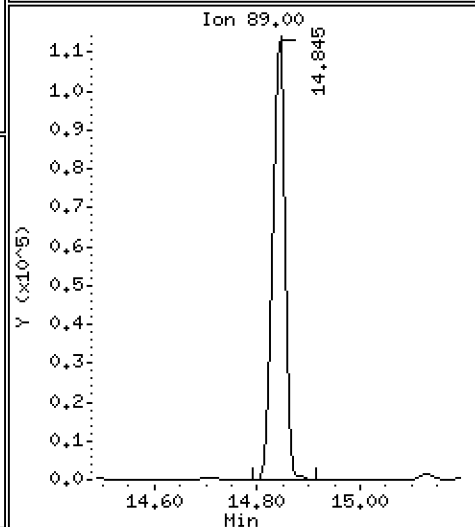
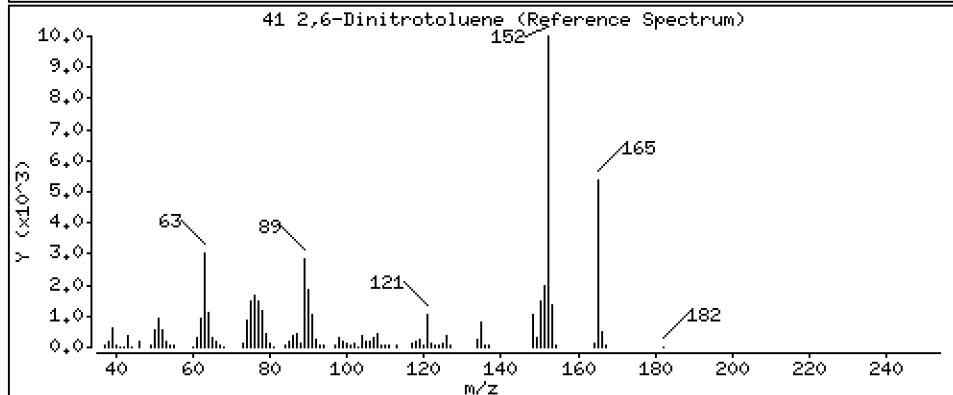
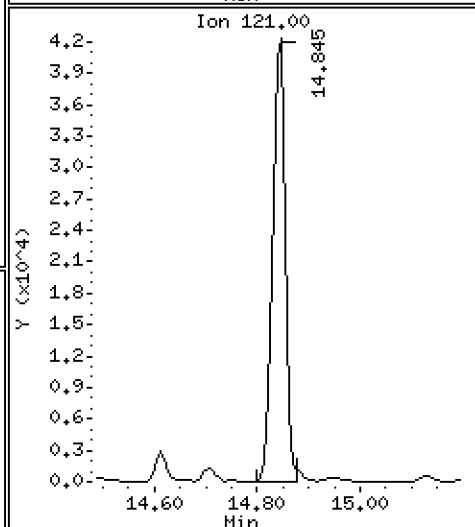
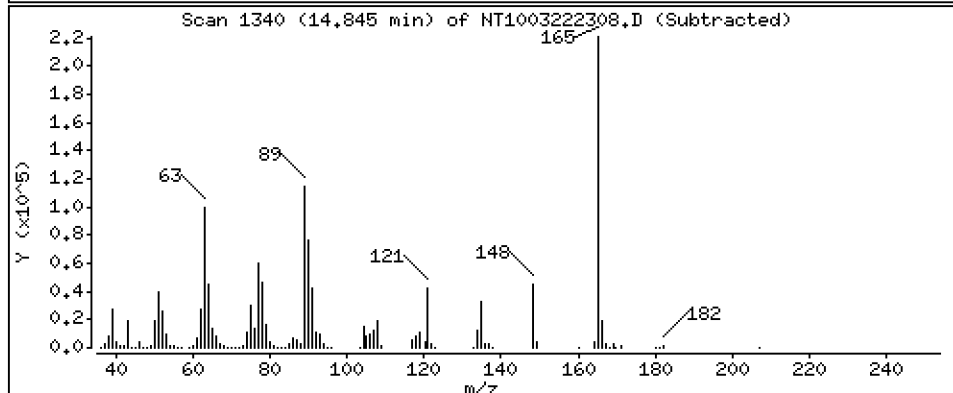
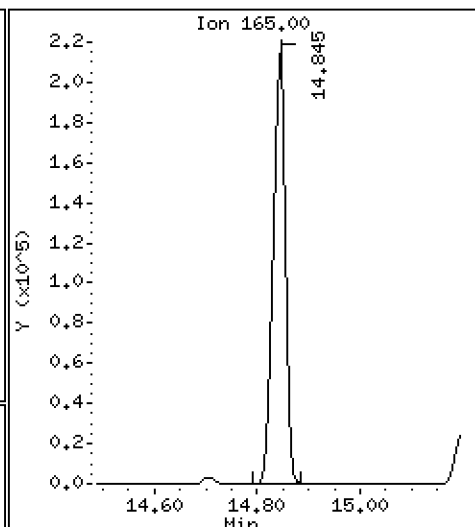
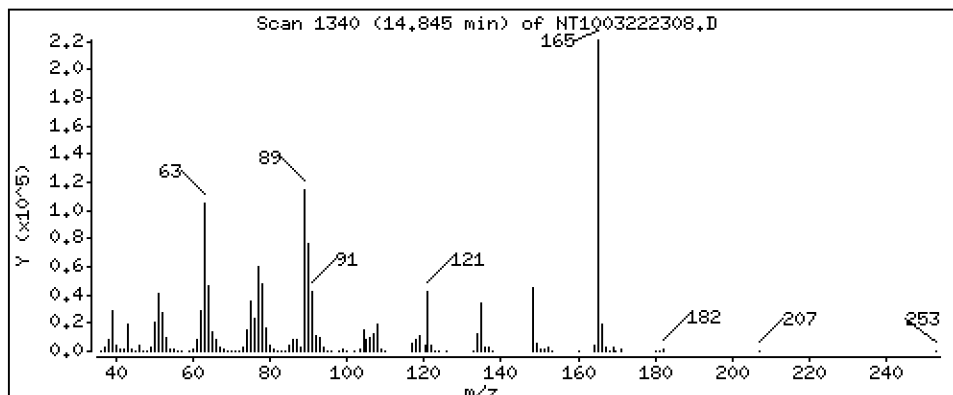
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

41 2,6-Dinitrotoluene

Concentration: 15,32 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

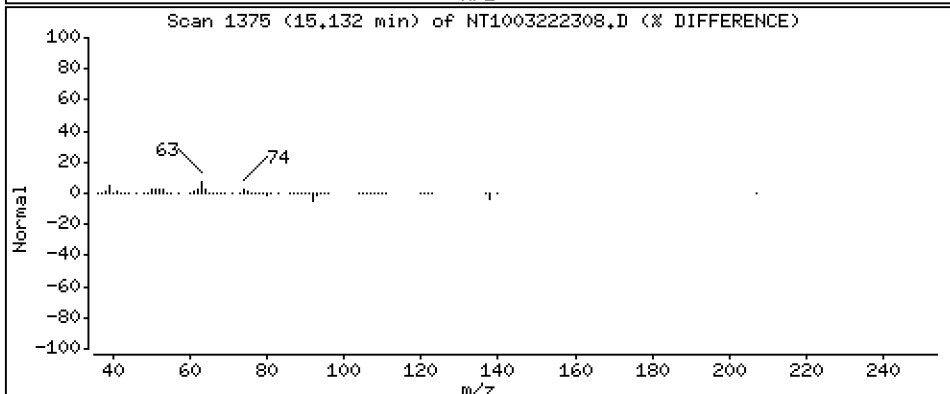
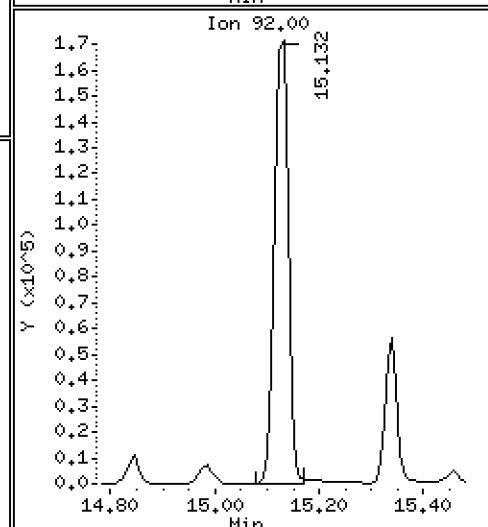
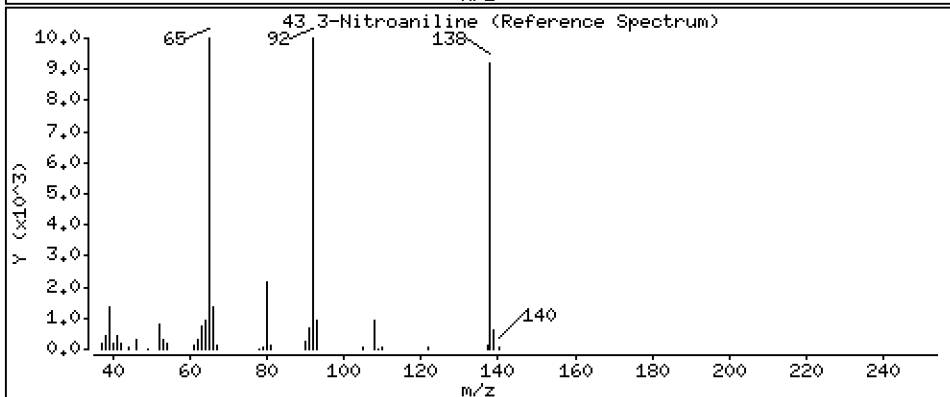
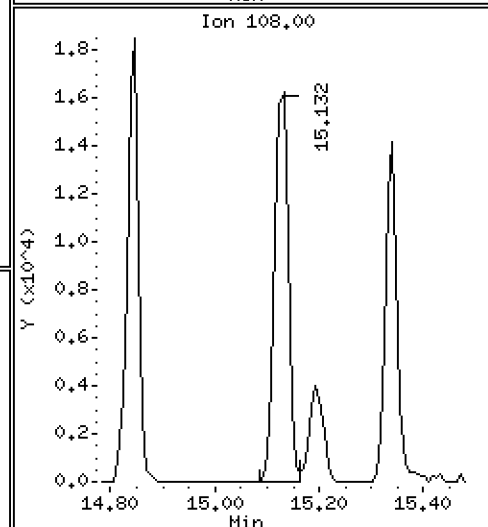
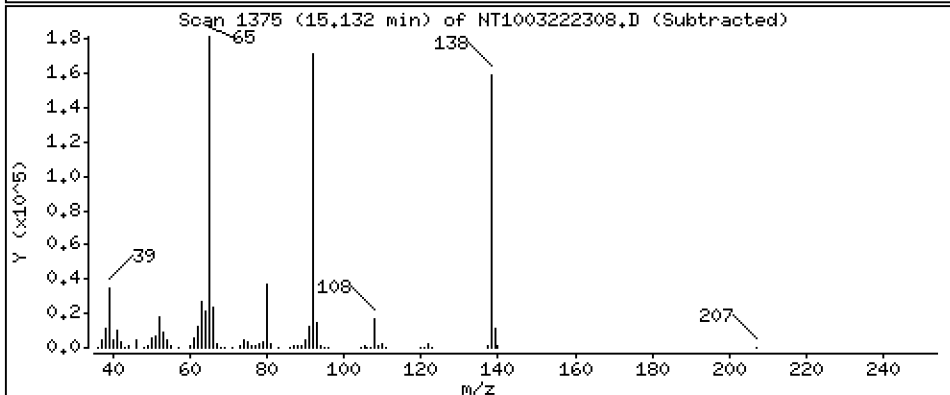
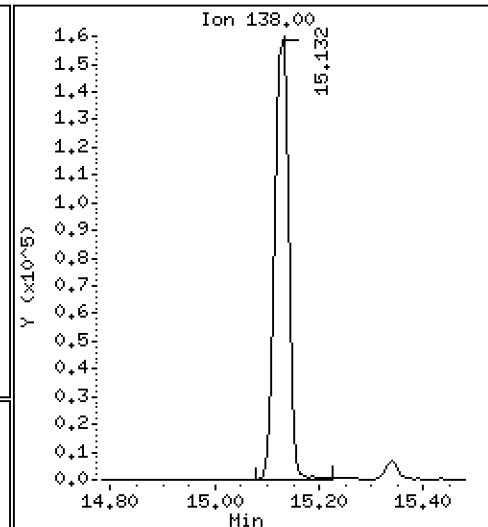
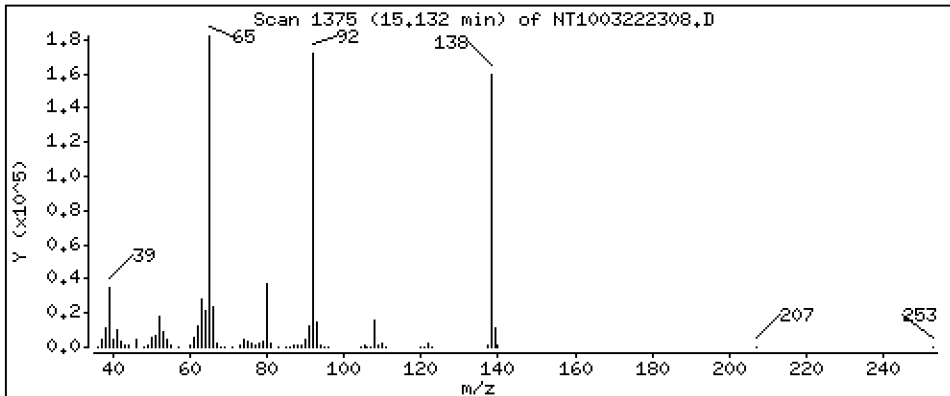
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

43 3-Nitroaniline

Concentration: 11,27 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

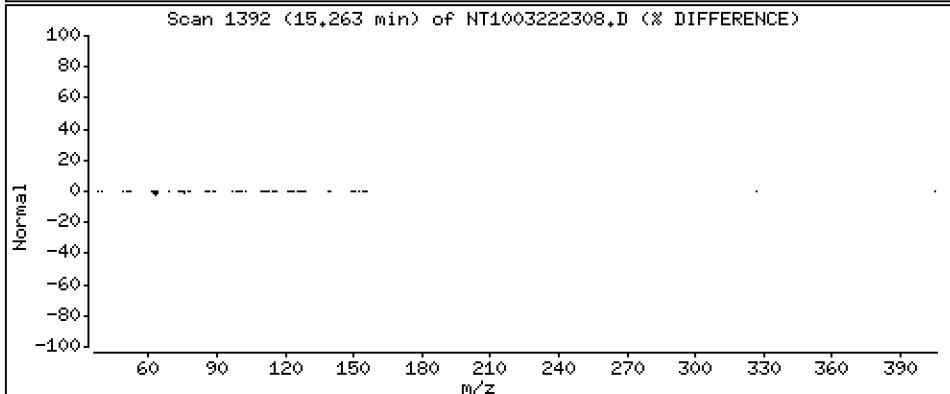
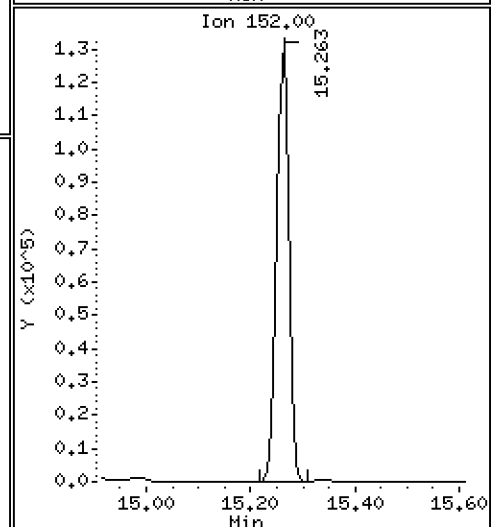
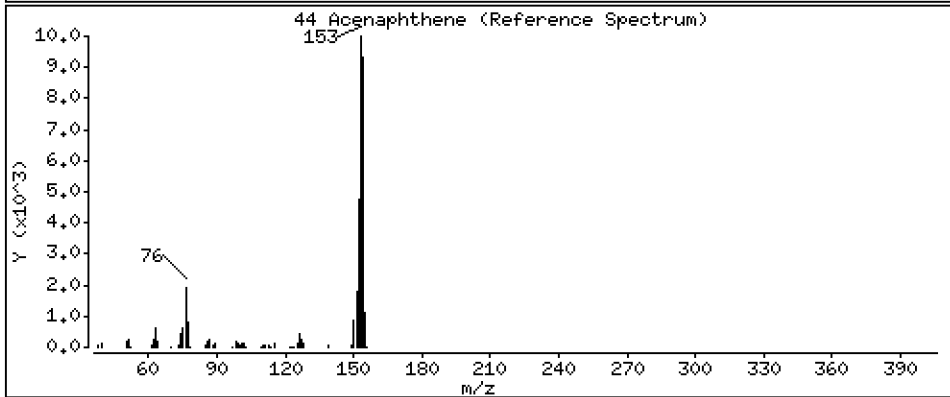
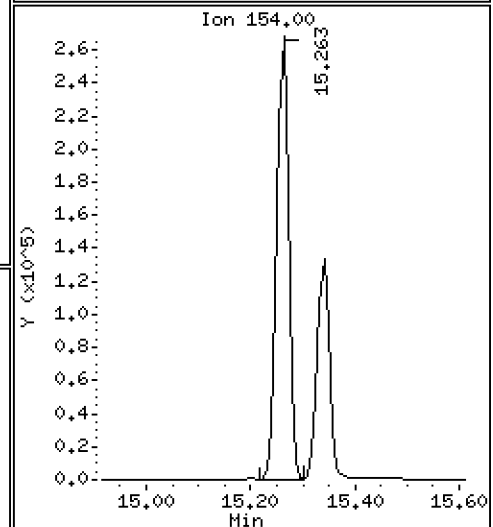
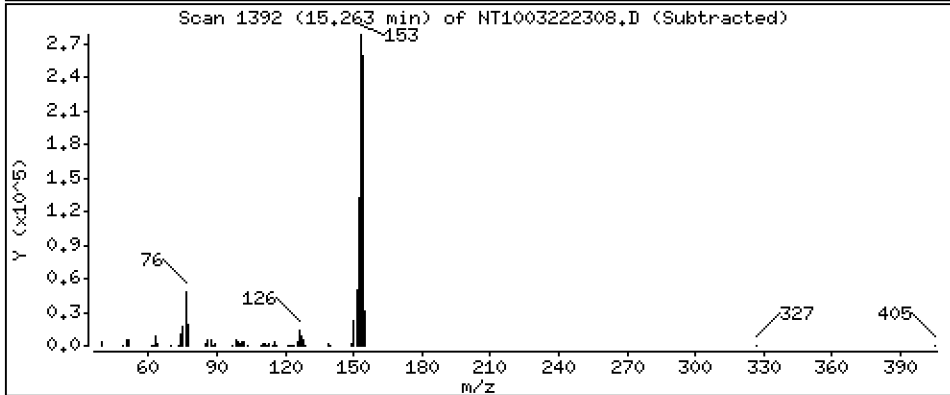
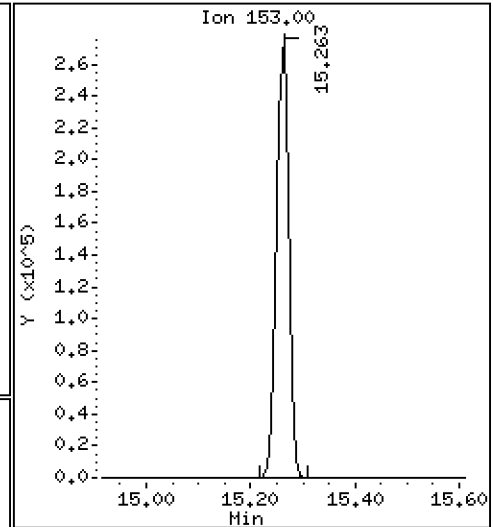
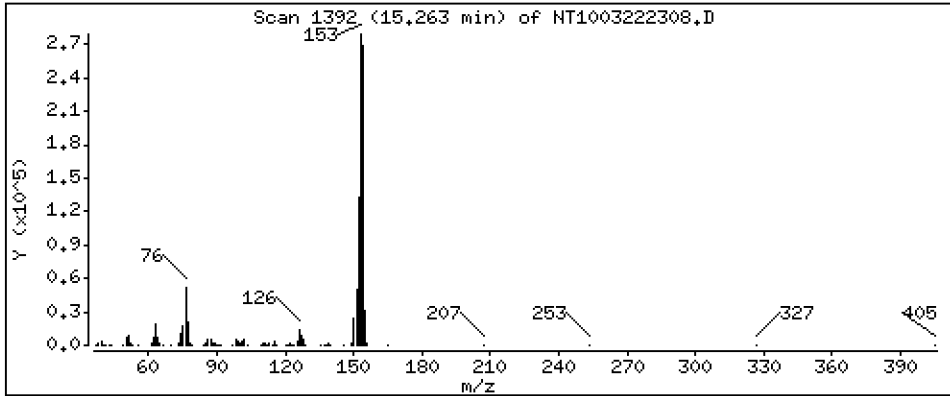
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 4,390 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

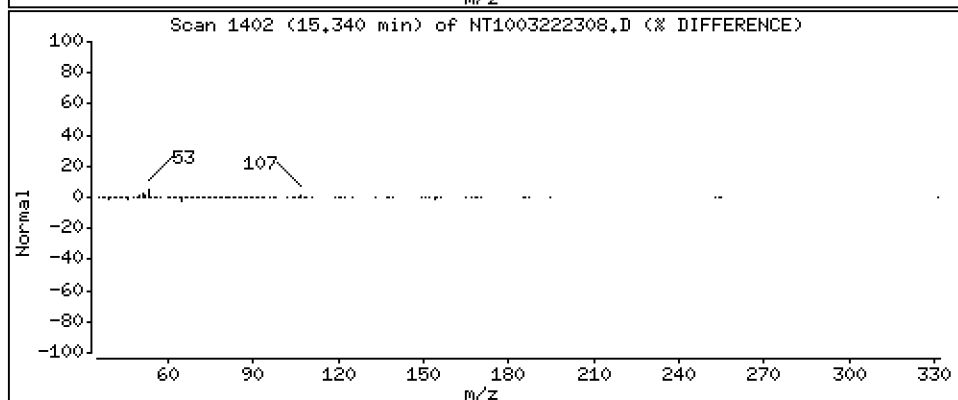
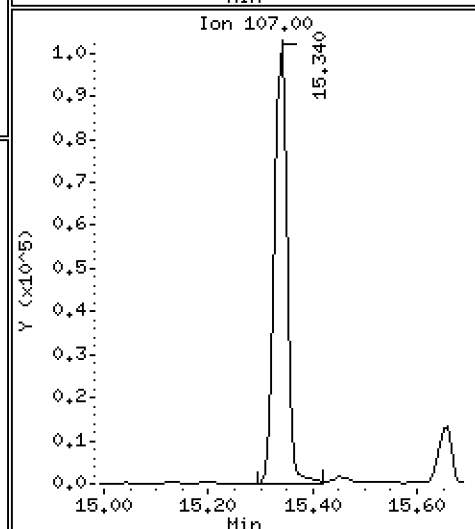
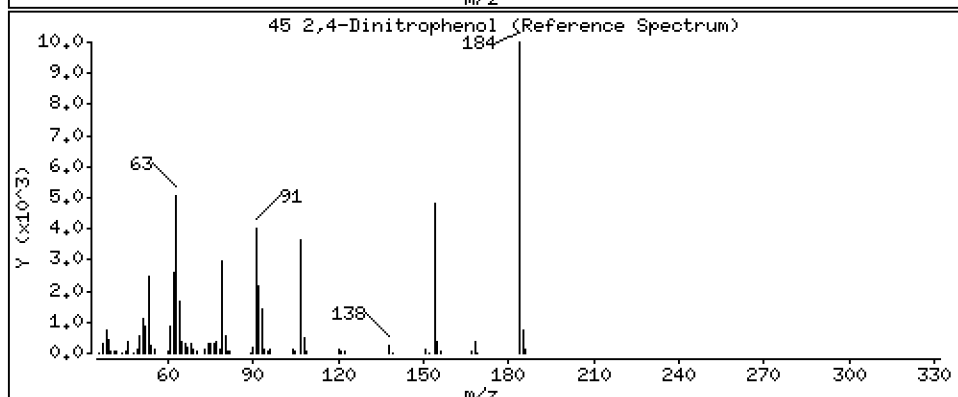
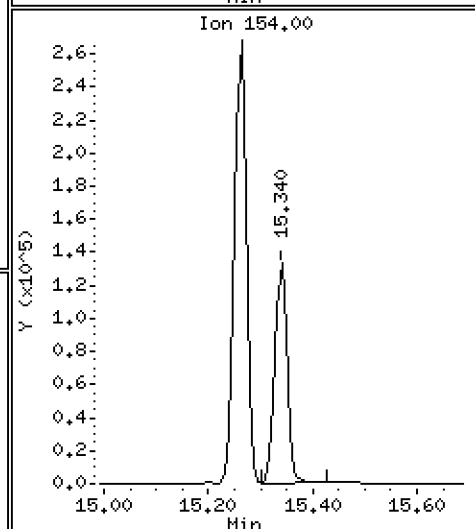
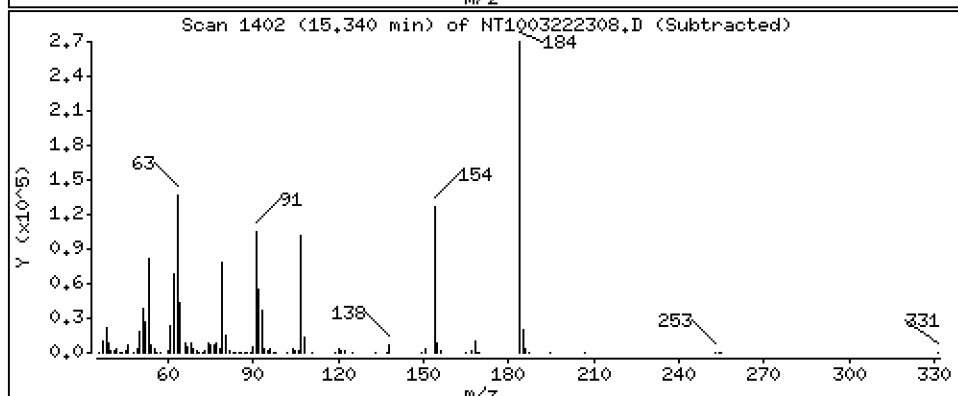
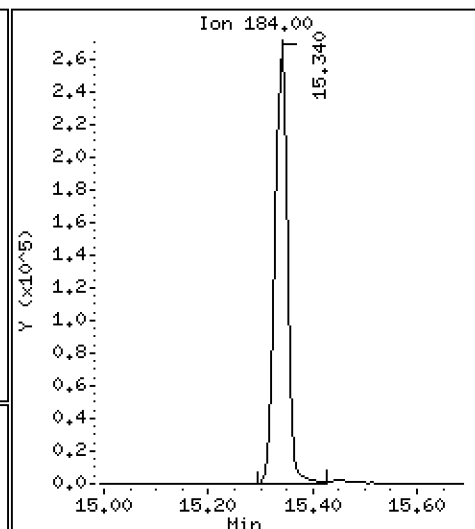
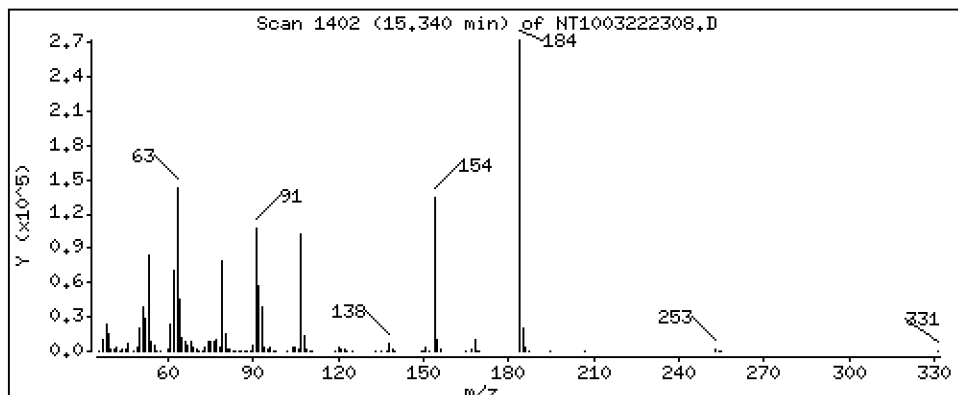
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

45 2,4-Dinitrophenol

Concentration: 29,94 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

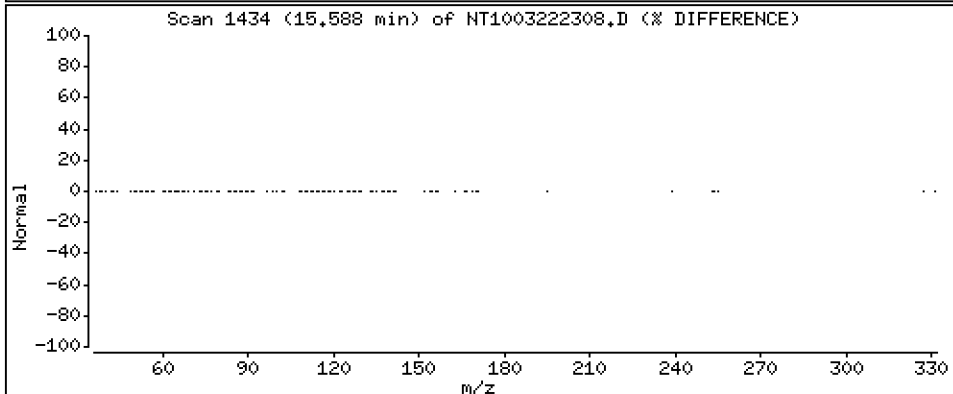
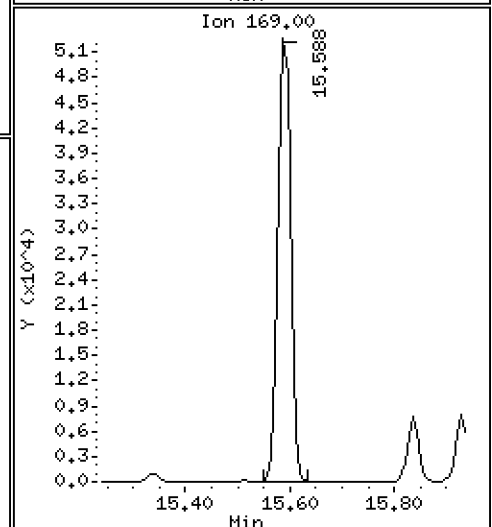
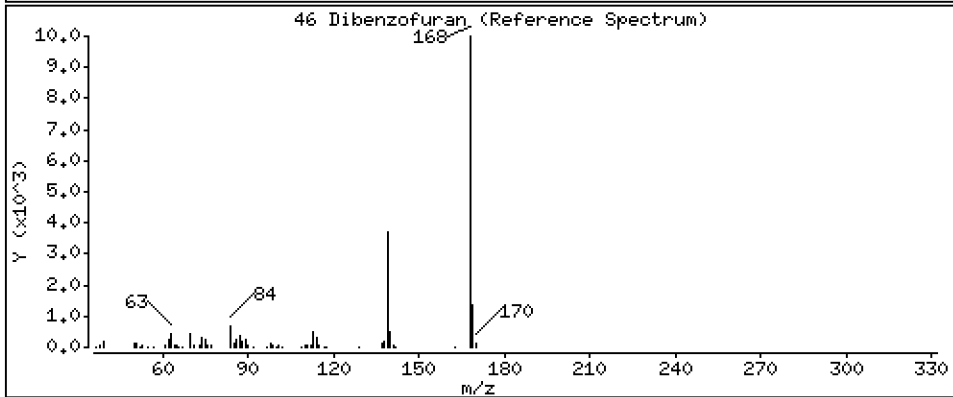
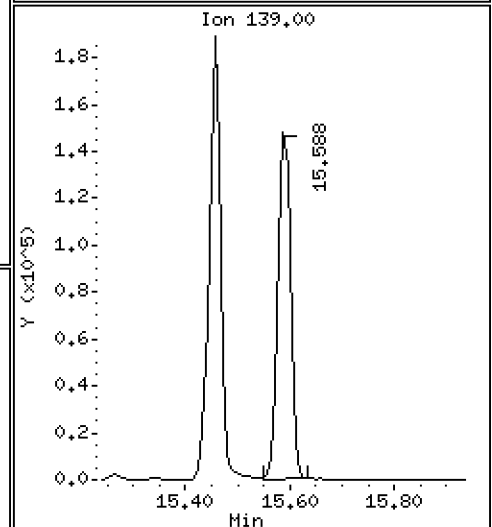
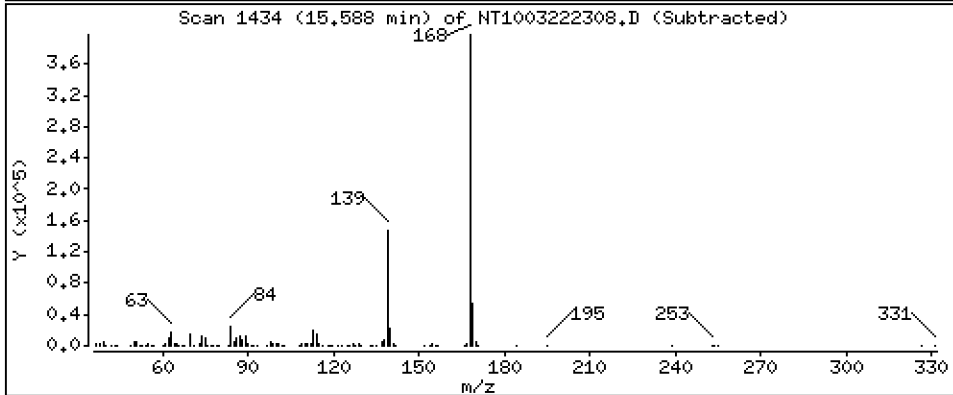
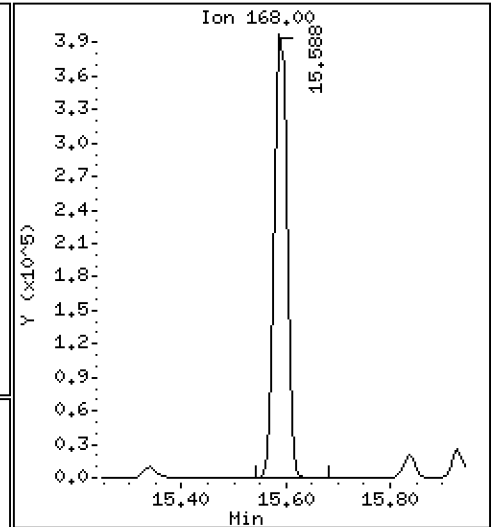
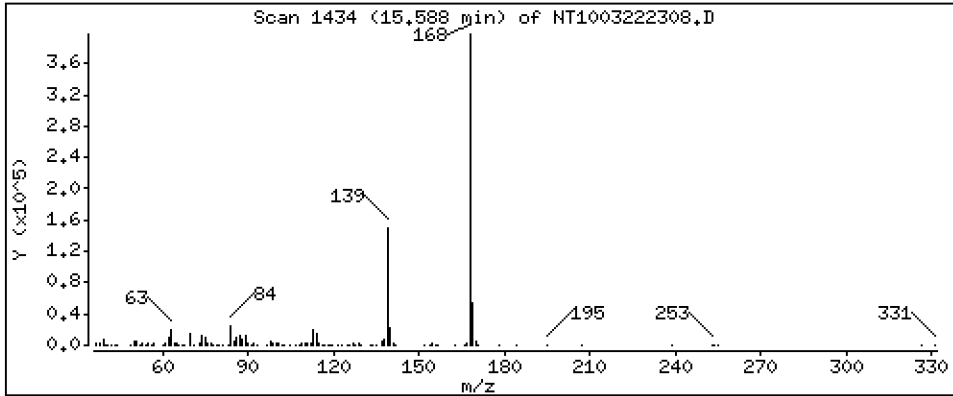
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 4,486 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

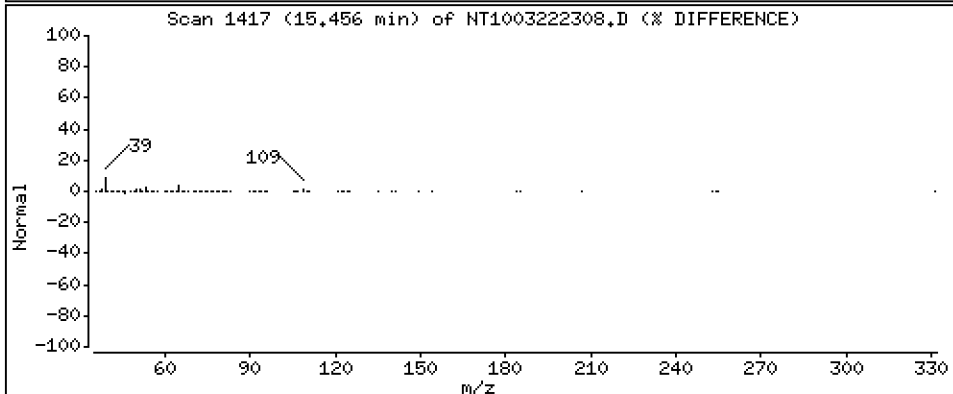
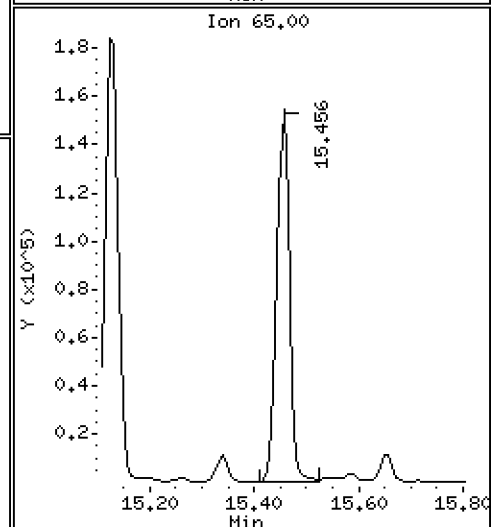
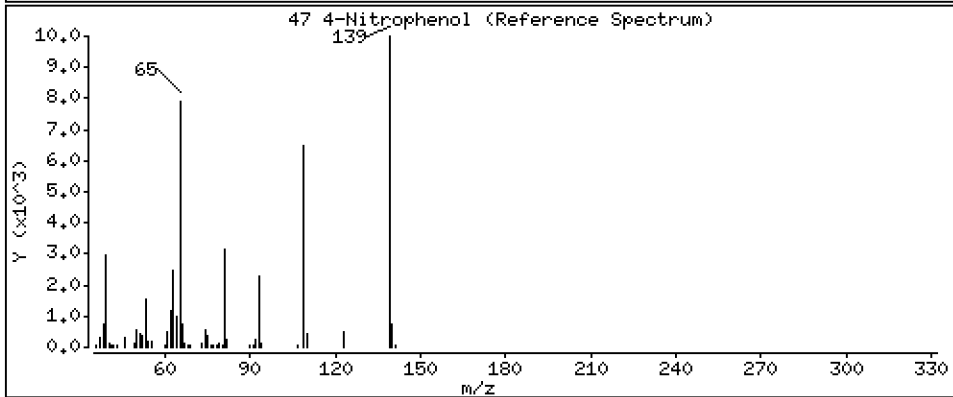
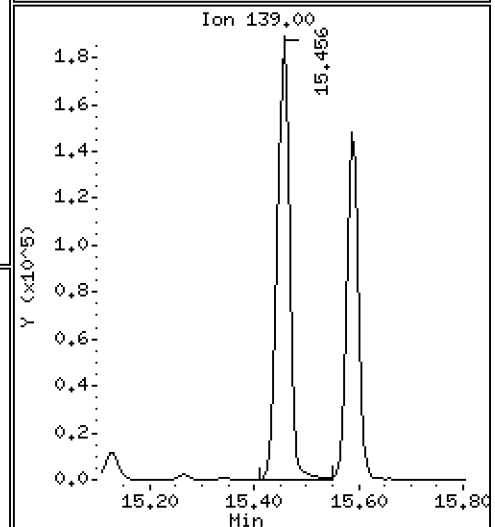
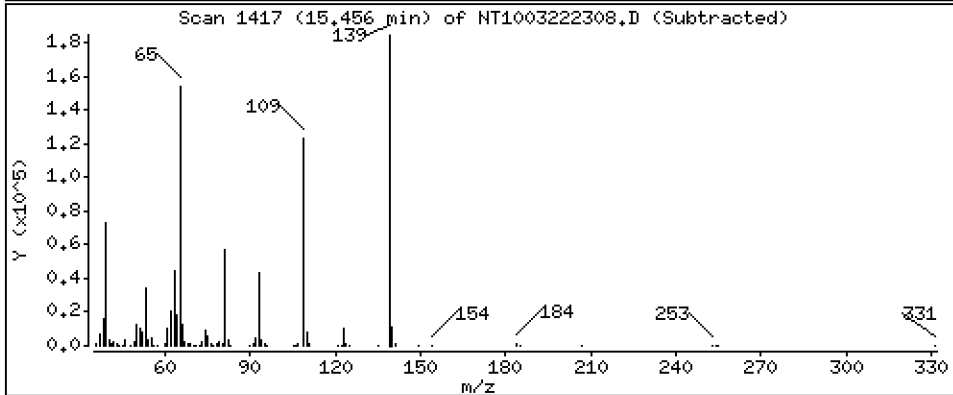
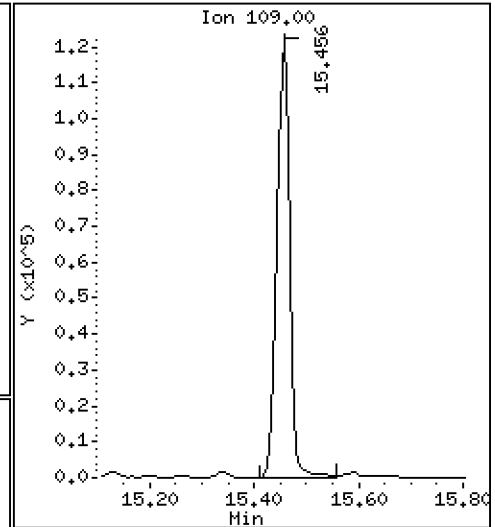
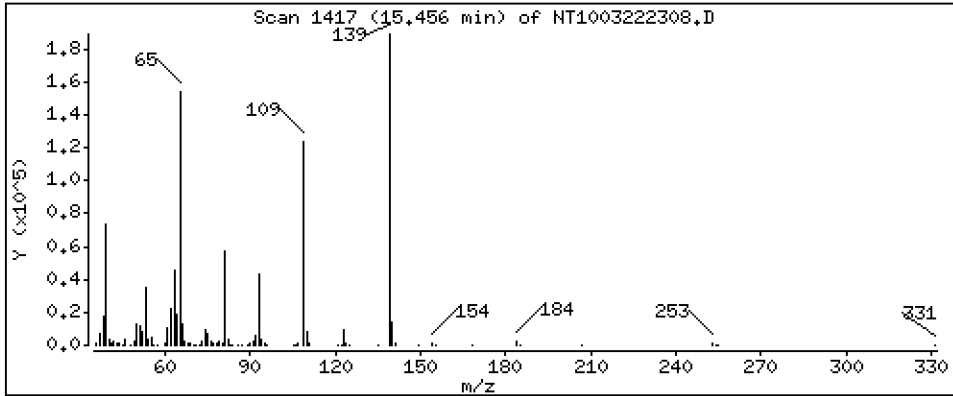
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

47 4-Nitrophenol

Concentration: 12,66 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

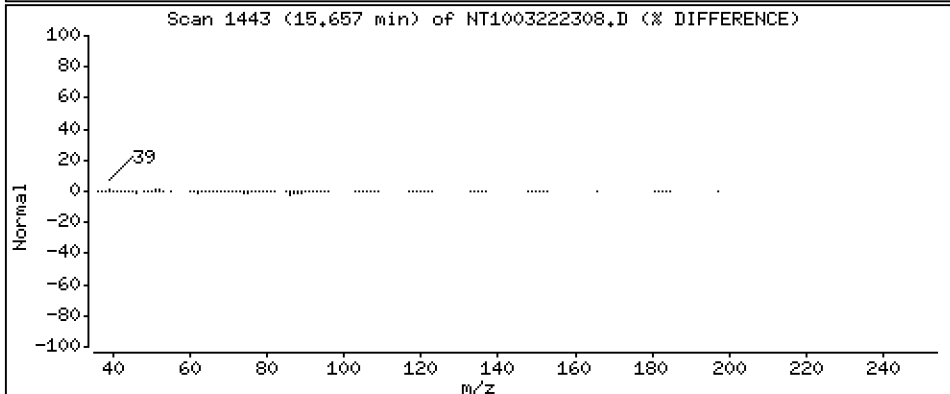
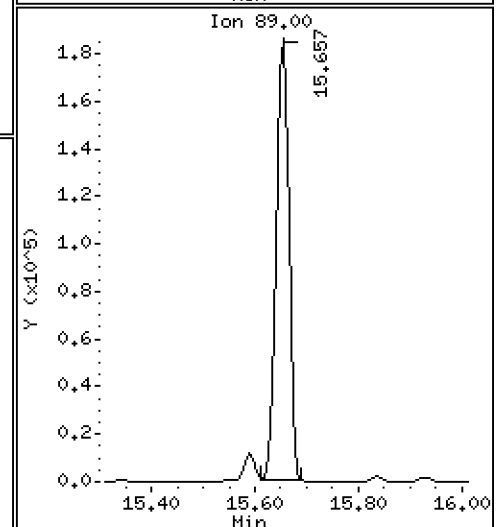
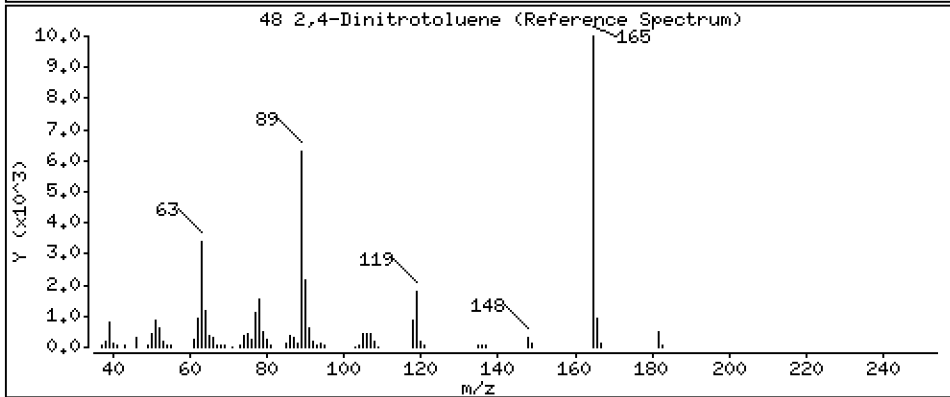
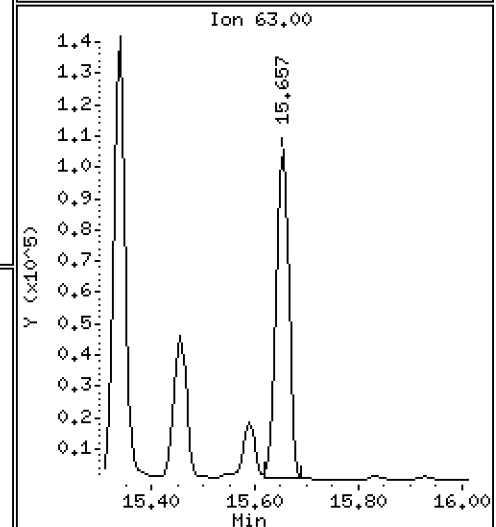
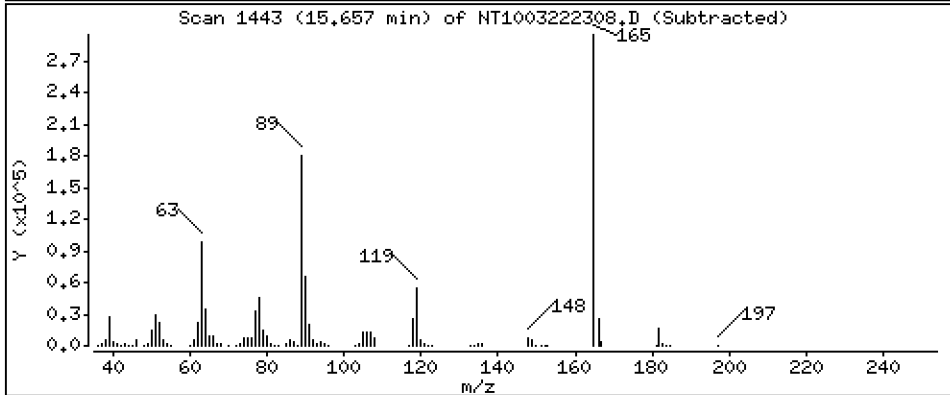
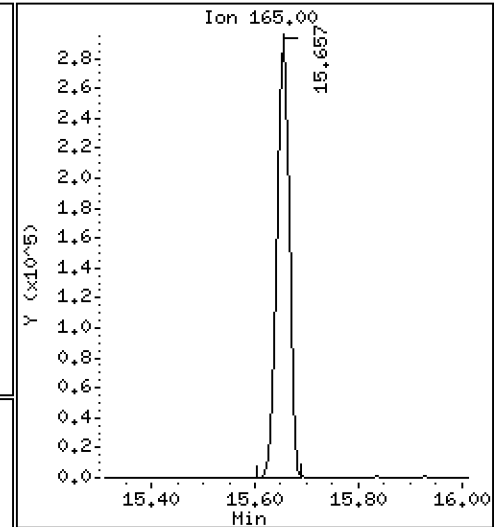
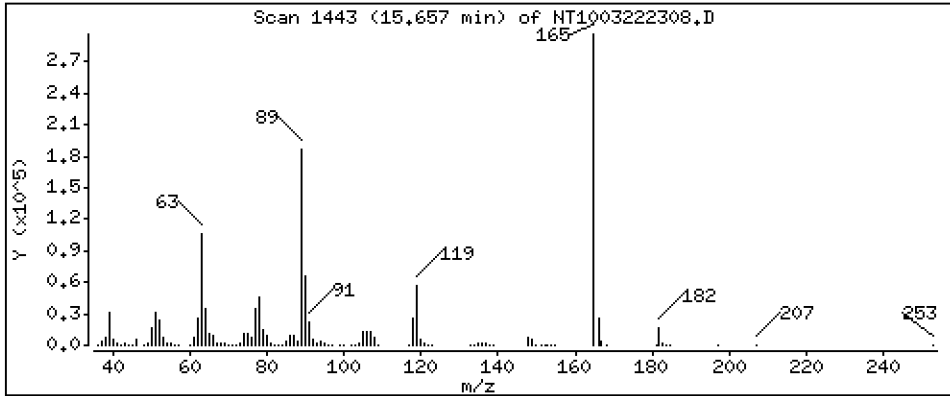
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

48 2,4-Dinitrotoluene

Concentration: 14,06 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

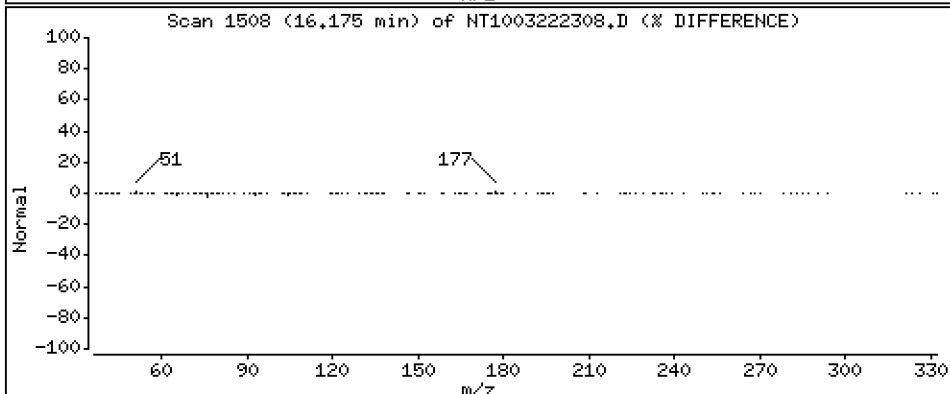
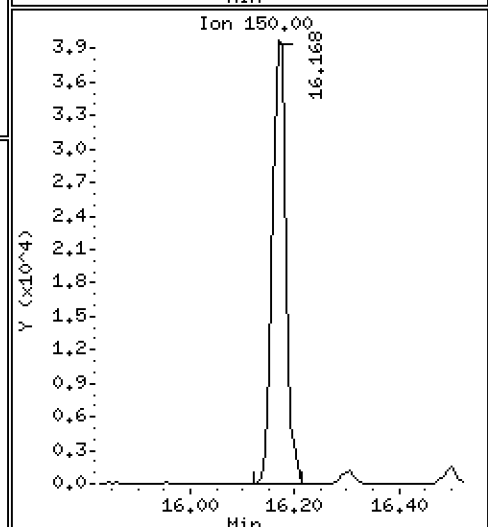
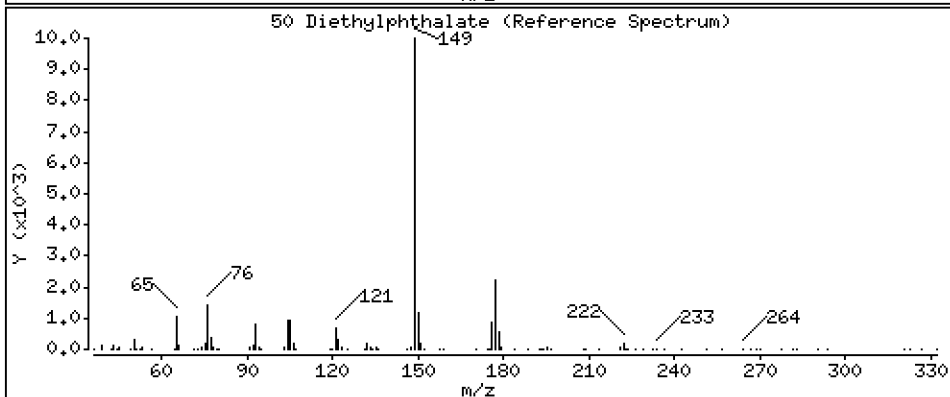
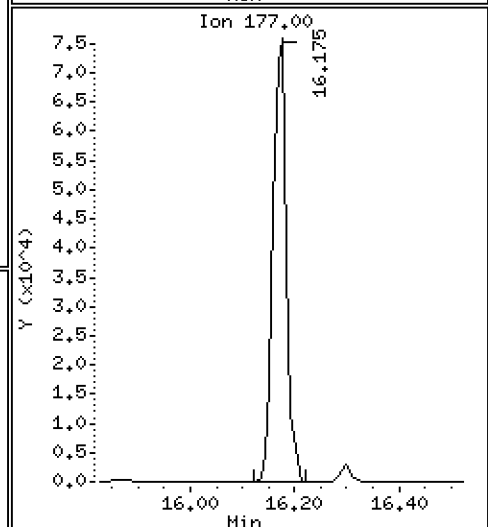
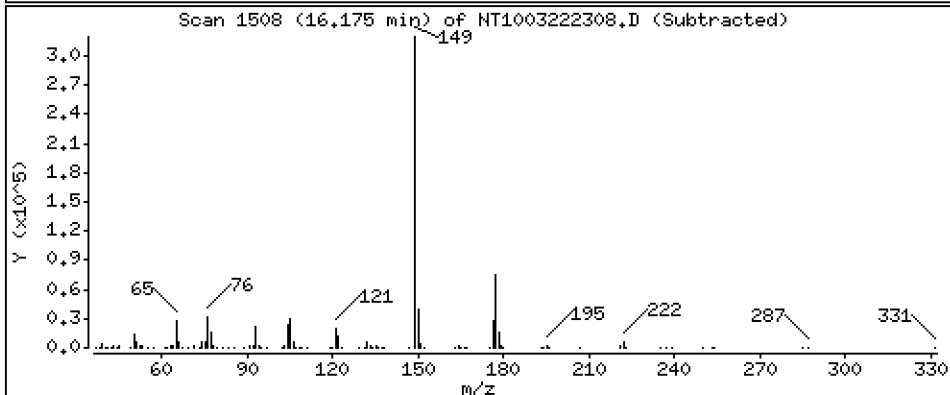
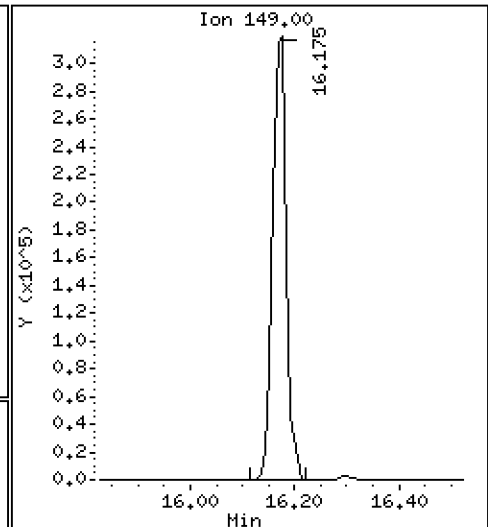
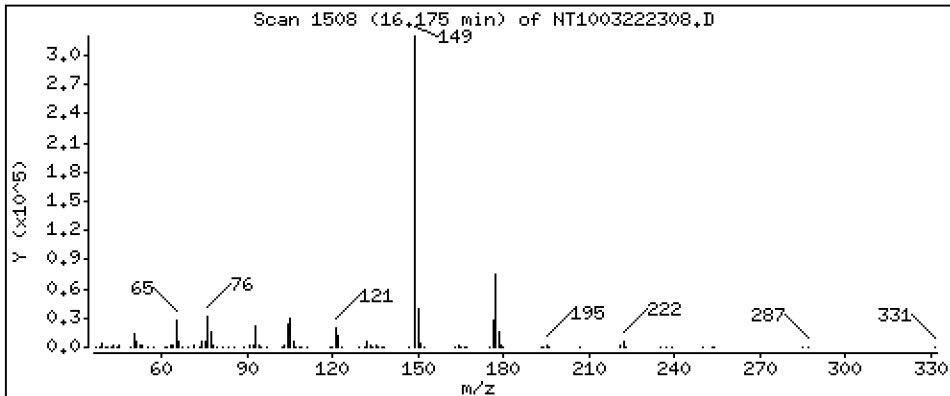
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 6,241 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

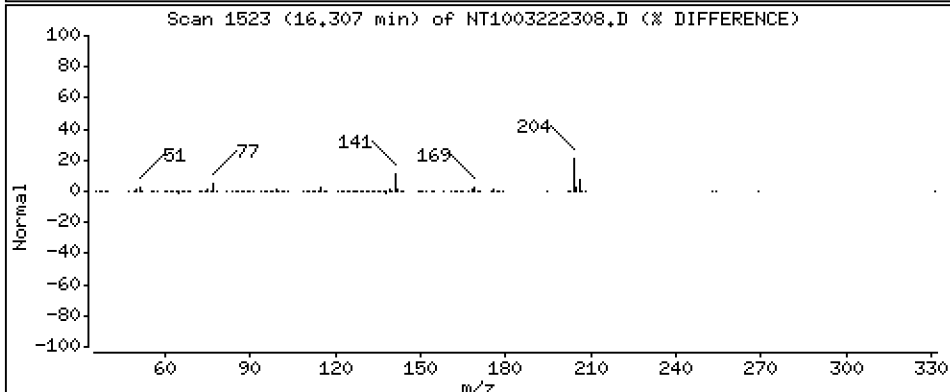
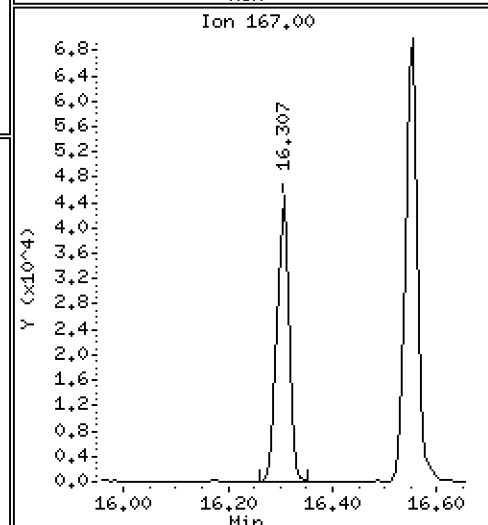
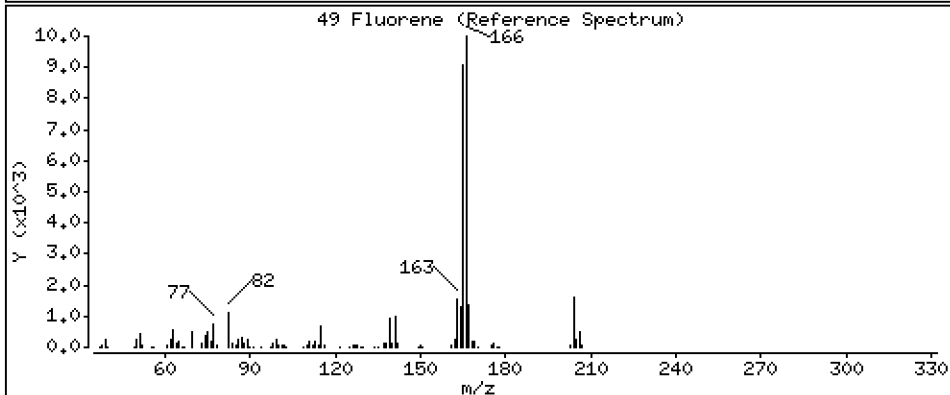
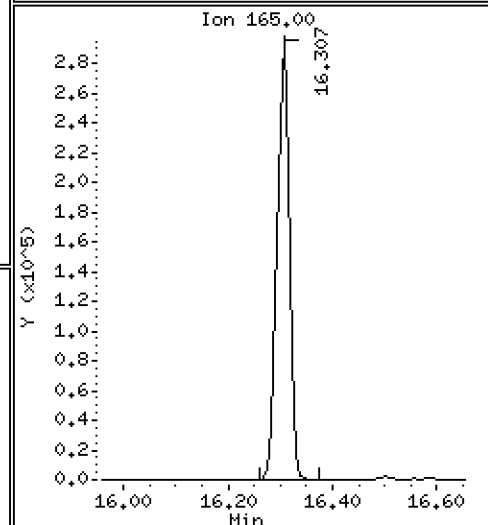
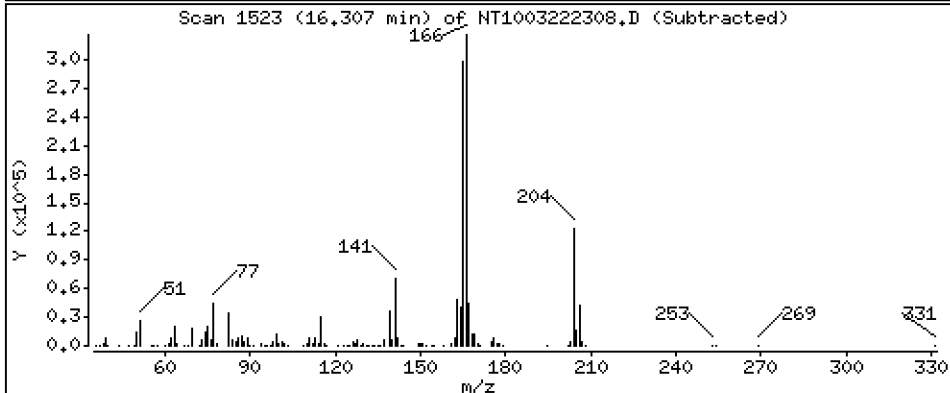
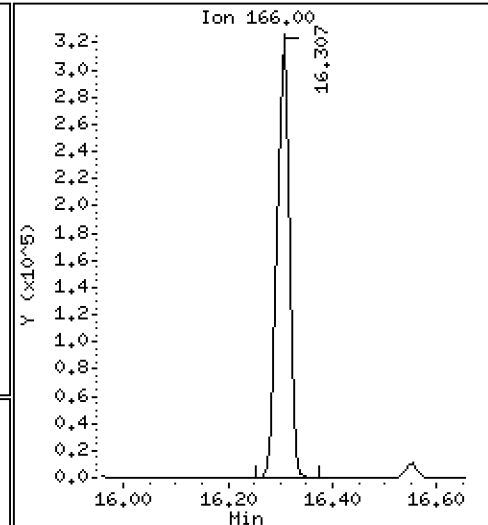
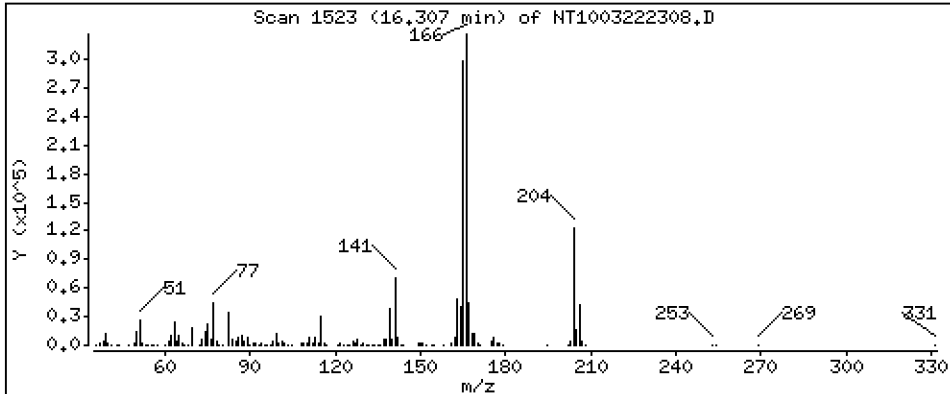
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 4,577 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

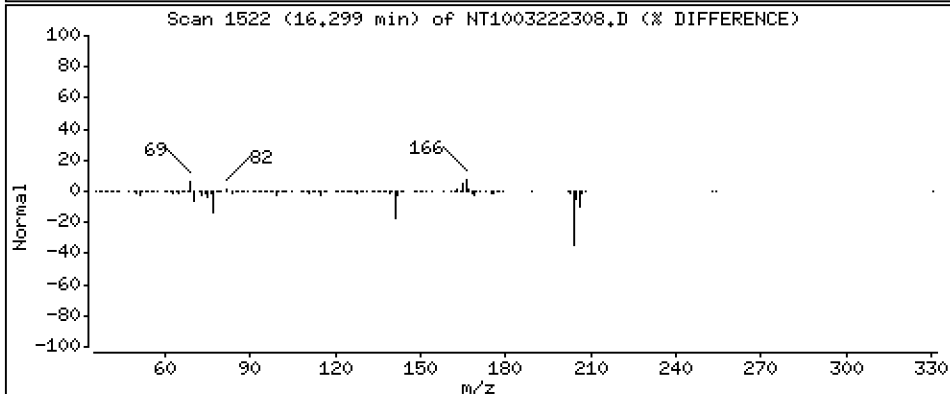
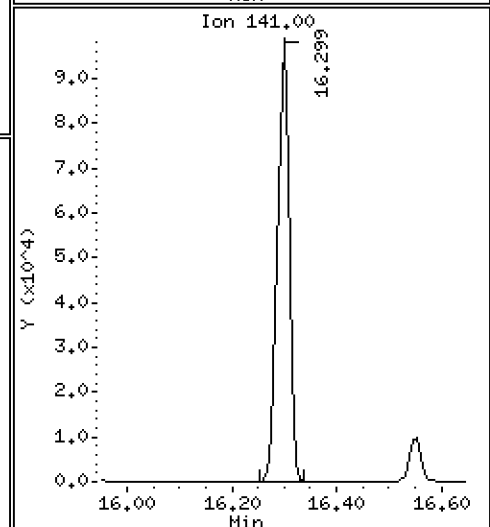
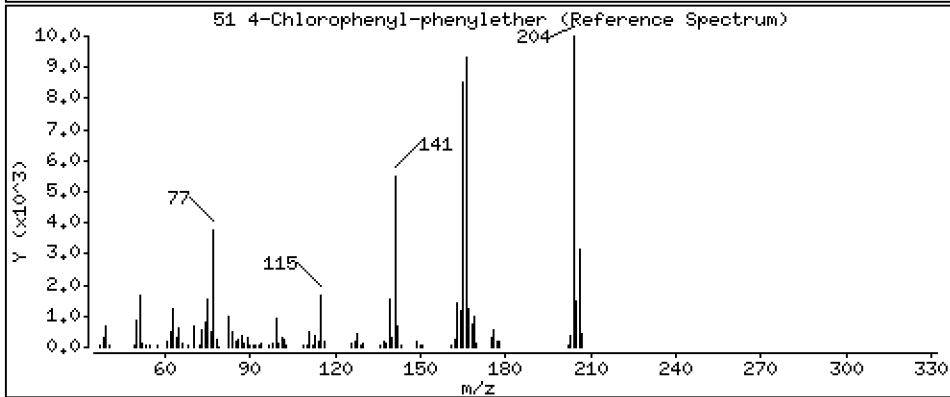
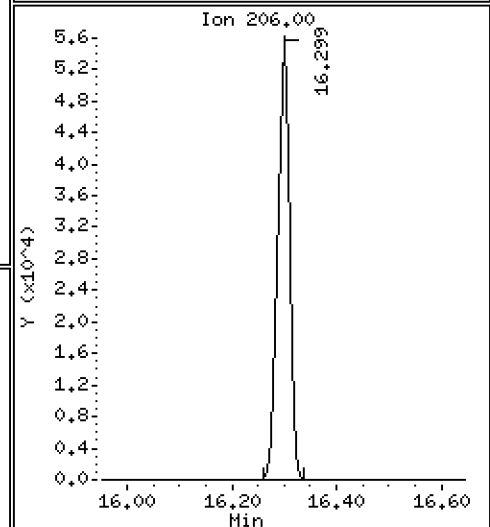
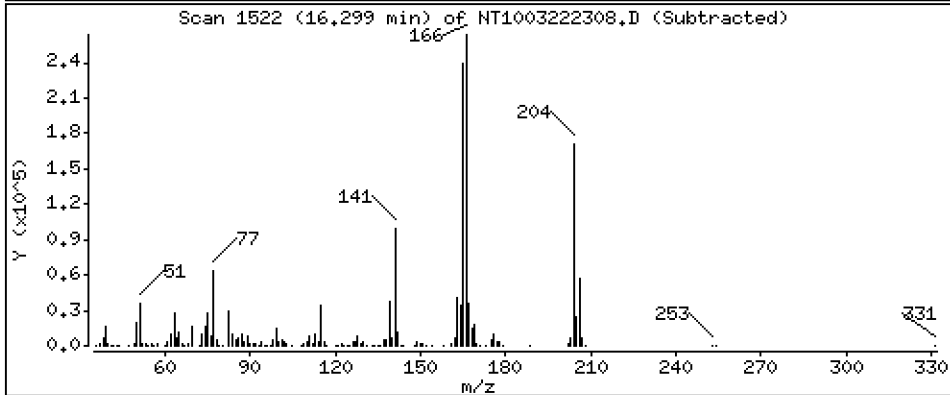
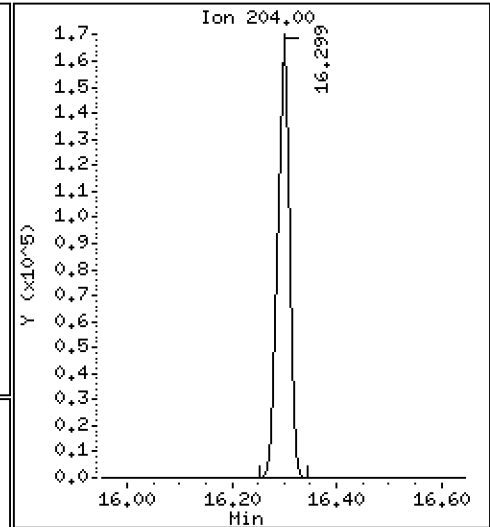
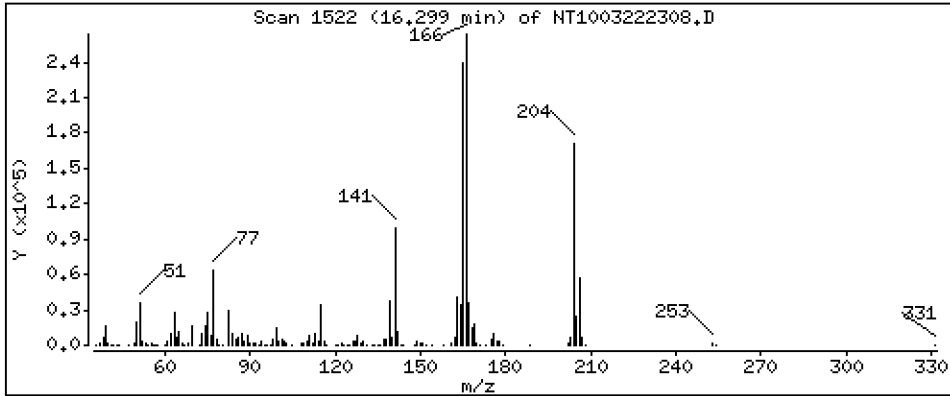
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 4,836 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

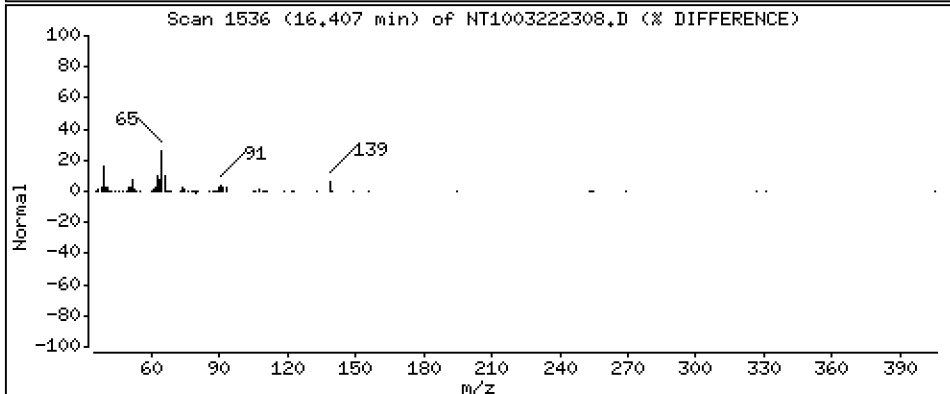
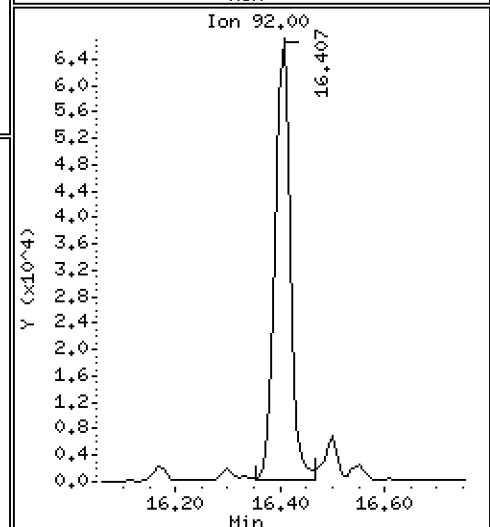
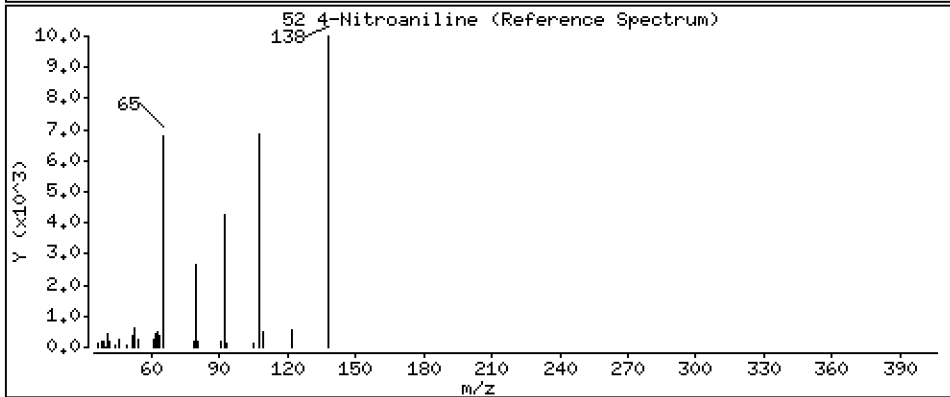
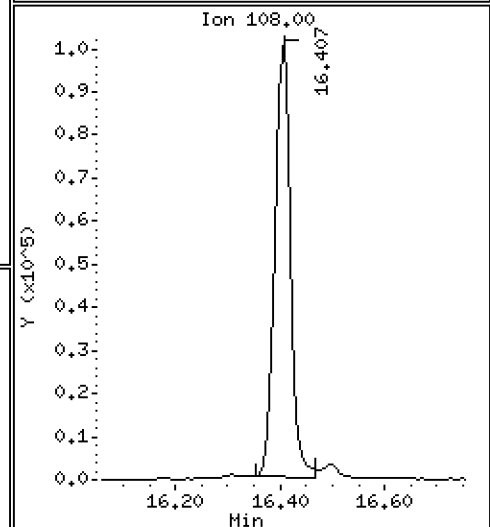
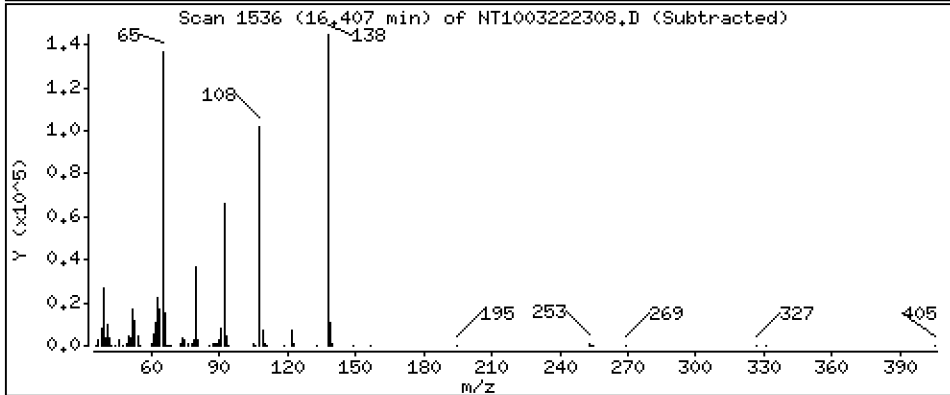
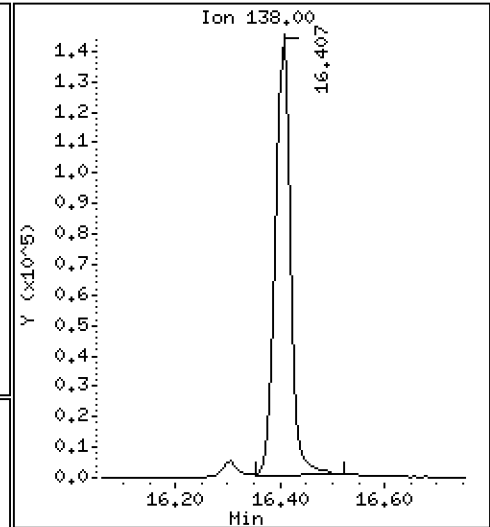
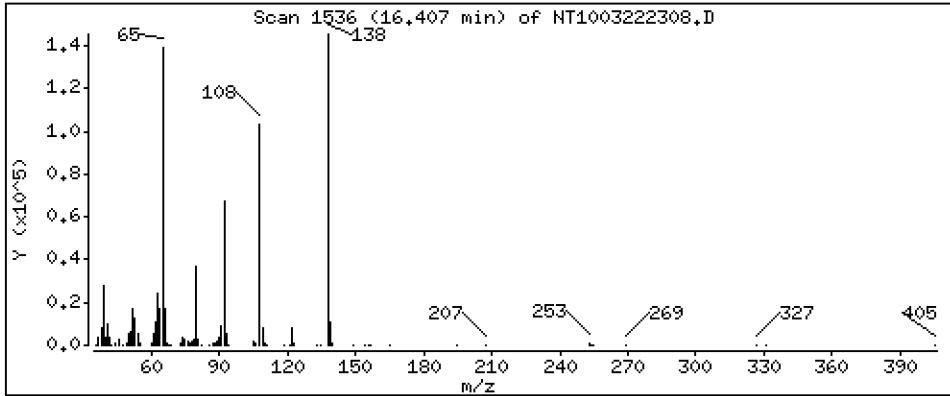
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

52 4-Nitroaniline

Concentration: 12,50 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

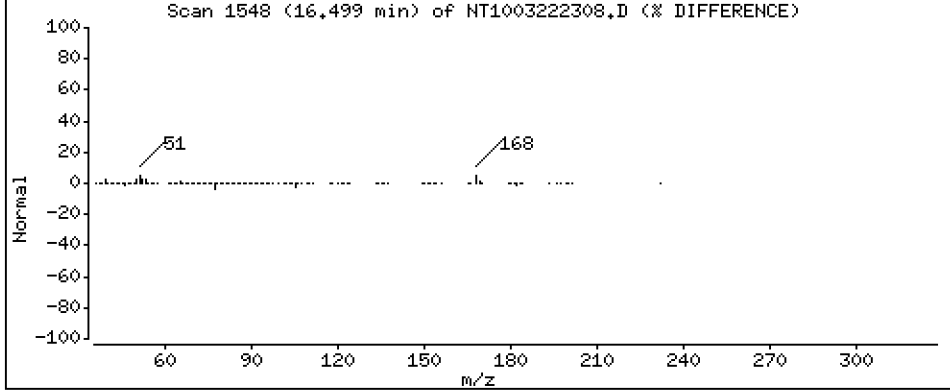
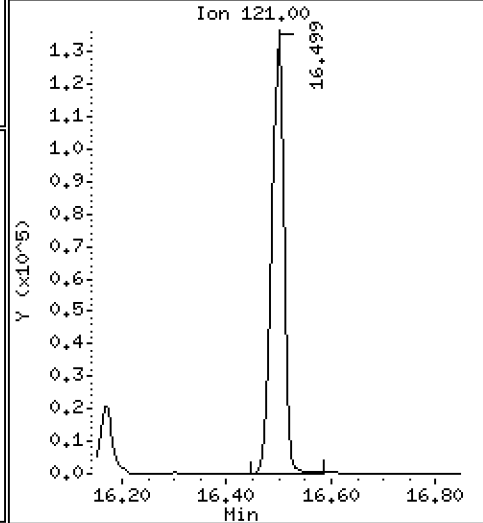
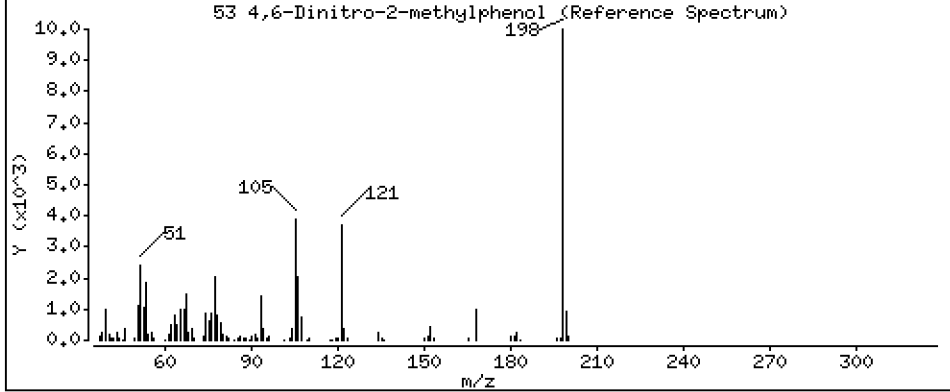
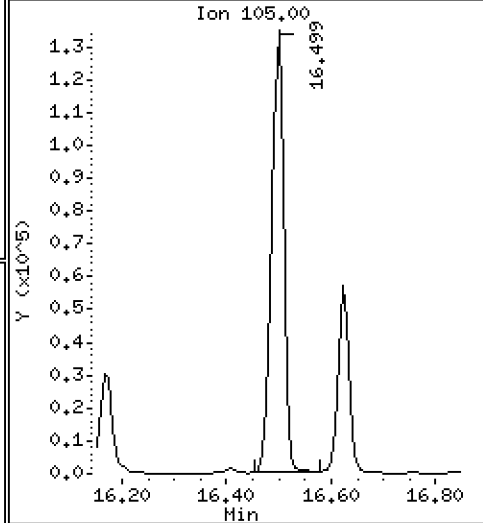
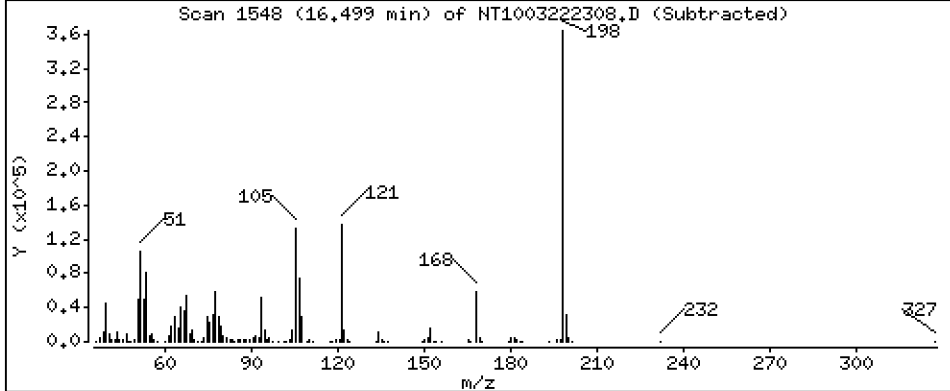
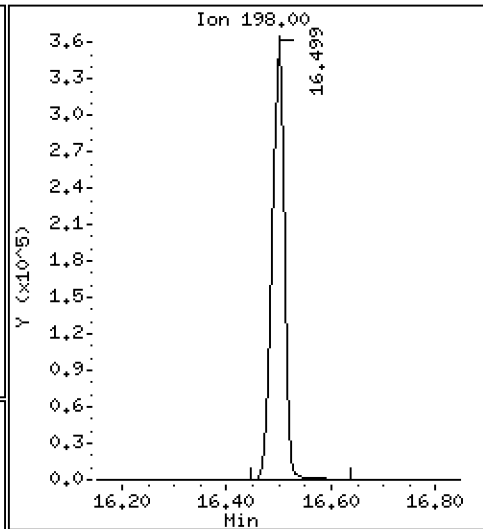
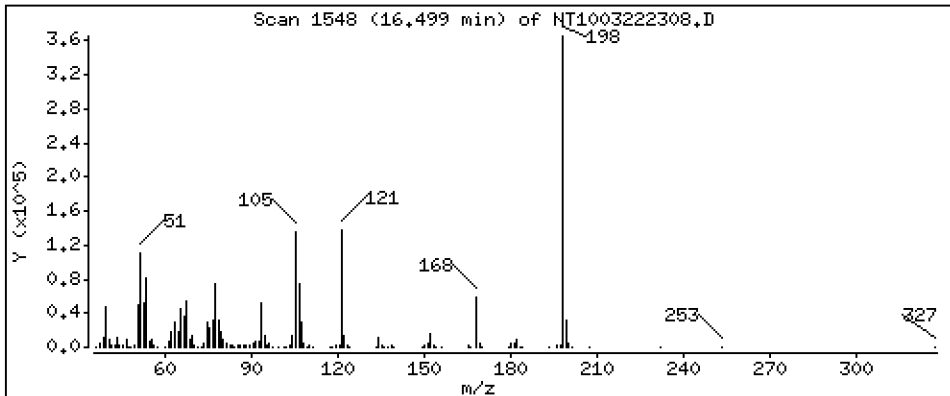
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

53 4,6-Dinitro-2-methylphenol

Concentration: 30,52 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

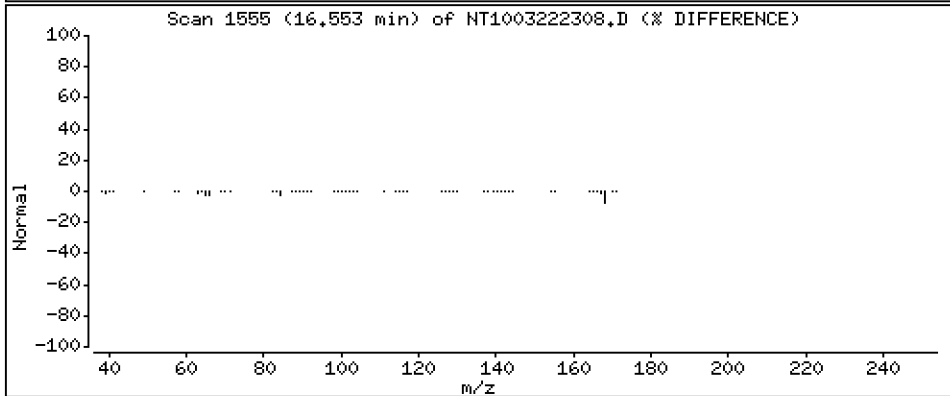
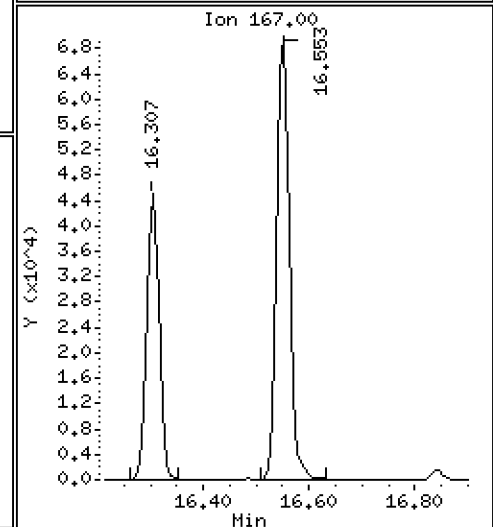
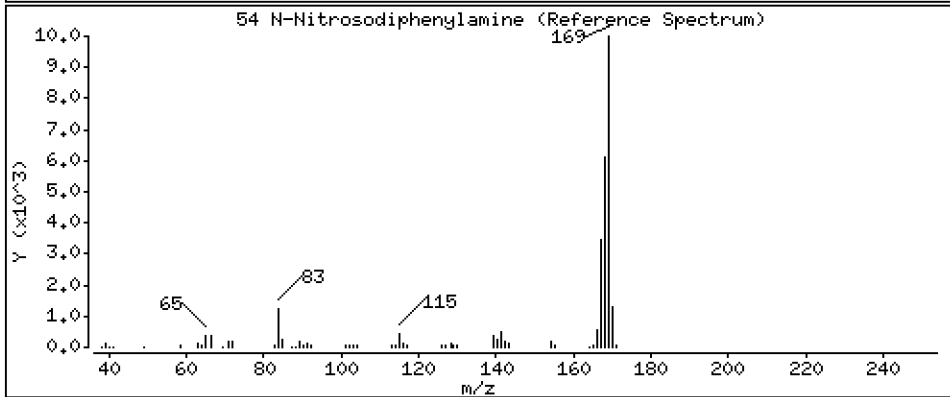
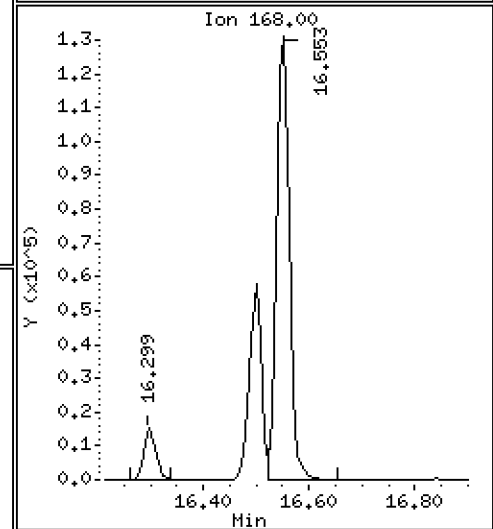
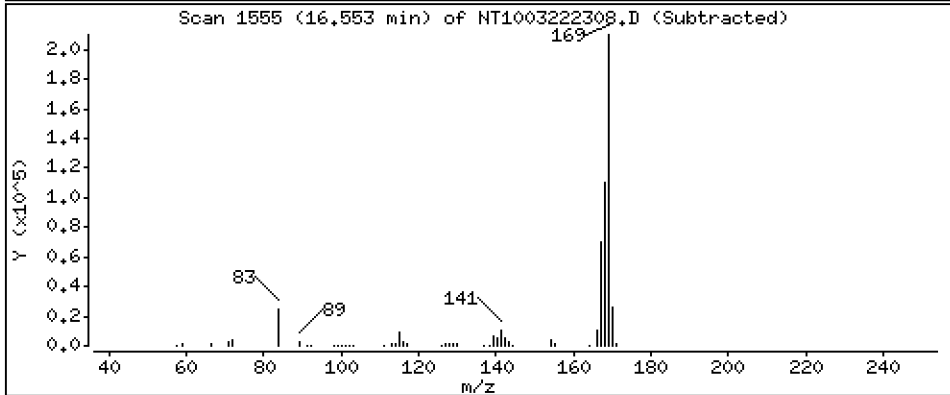
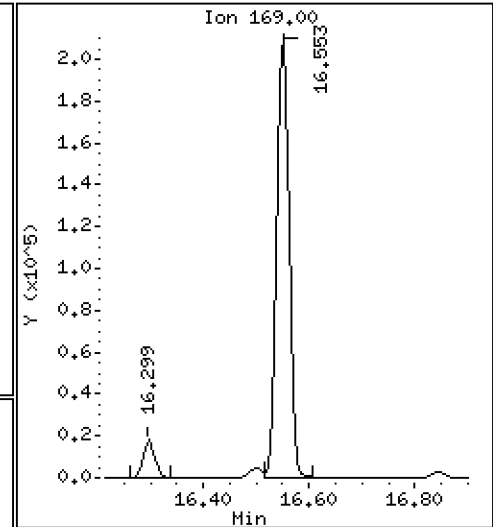
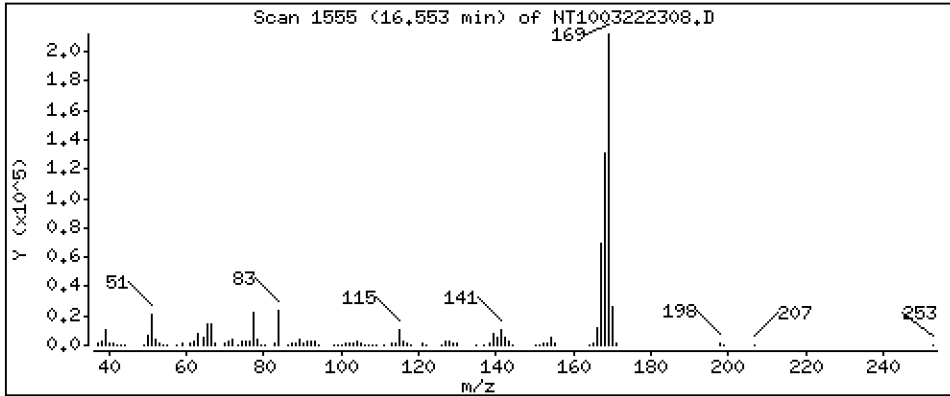
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

54 N-Nitrosodiphenylamine

Concentration: 4,240 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

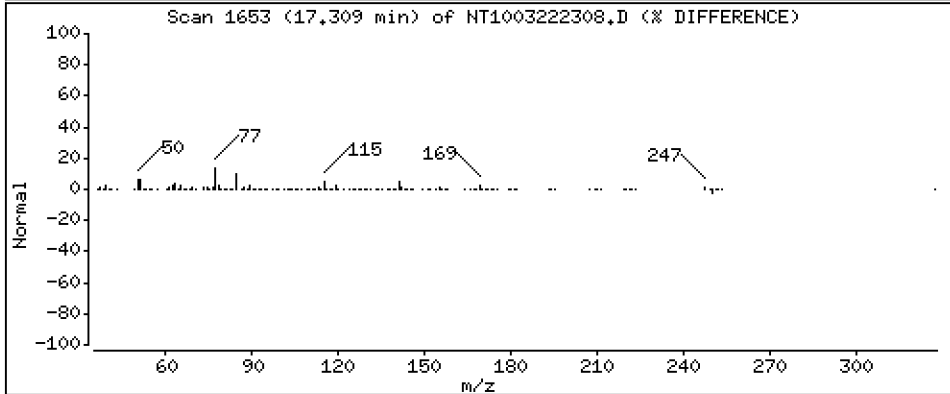
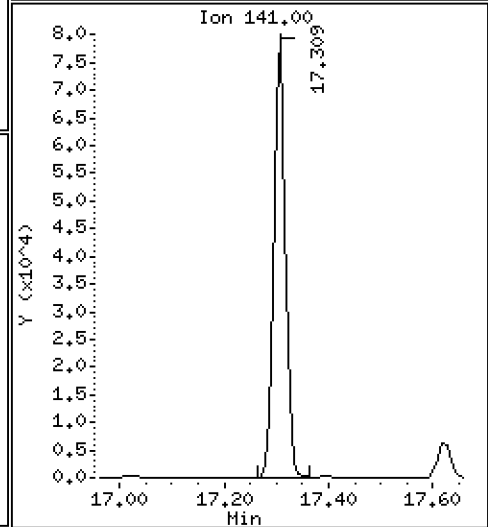
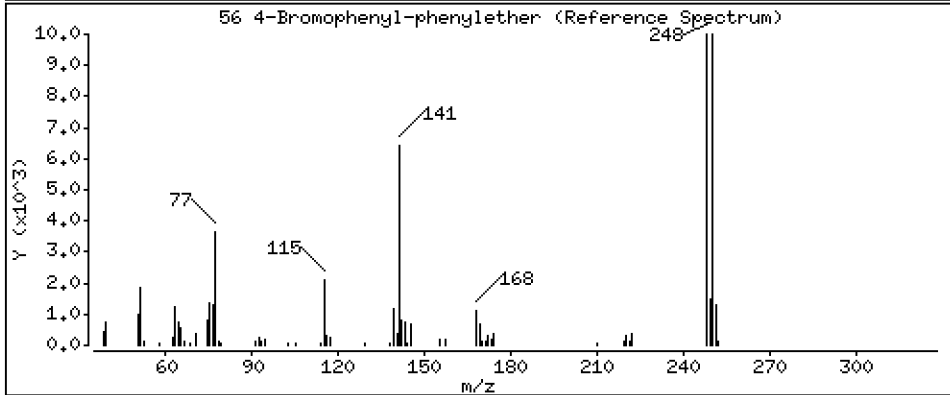
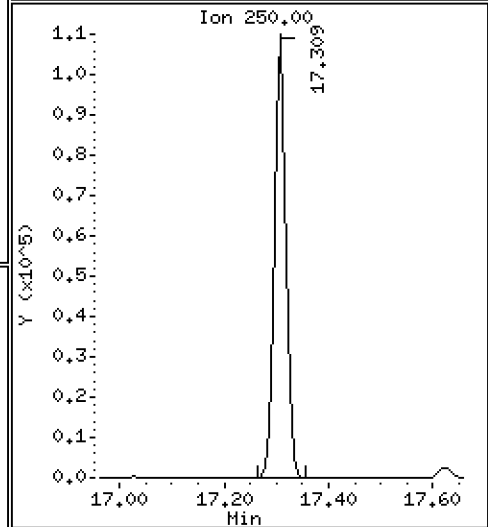
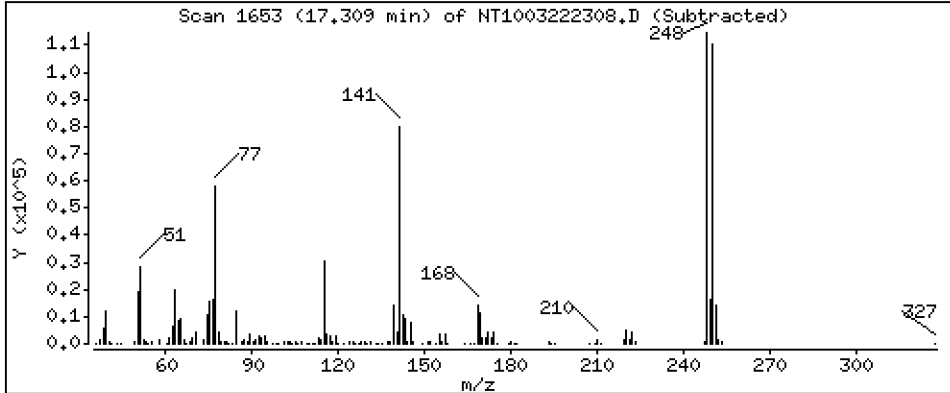
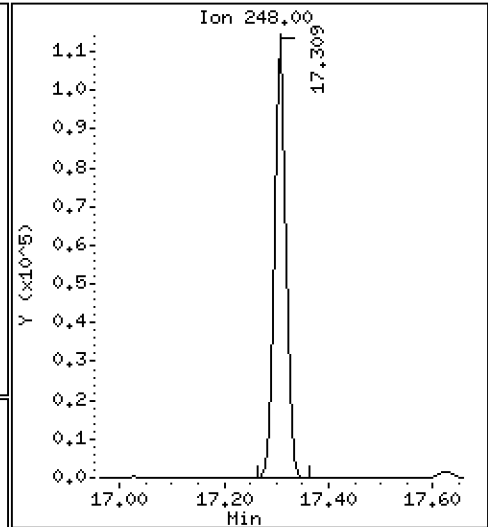
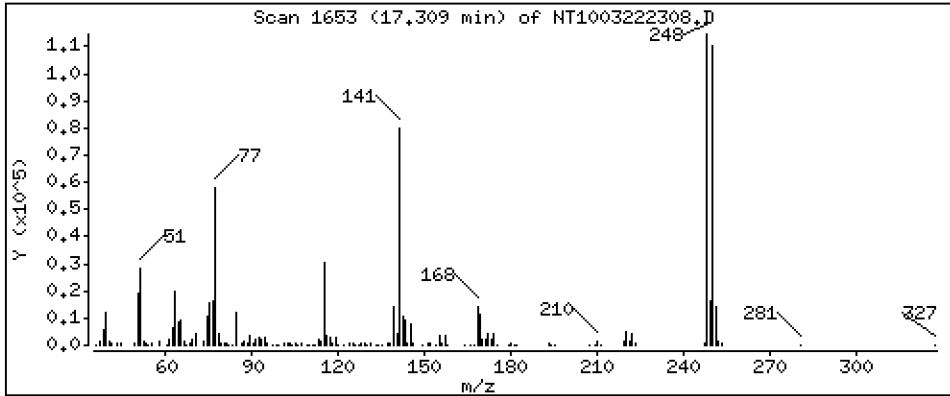
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 5,244 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

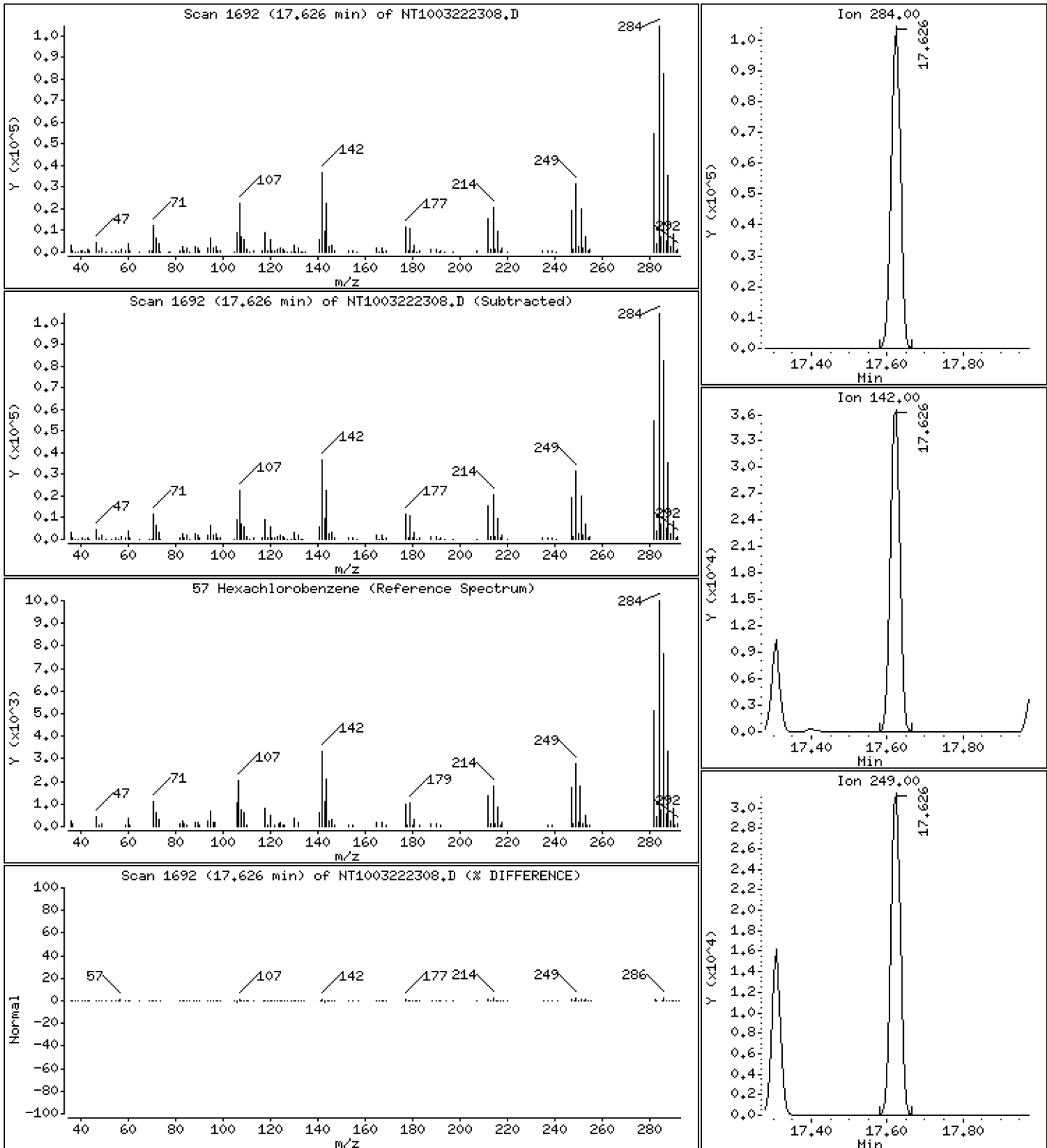
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

57 Hexachlorobenzene

Concentration: 4,961 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

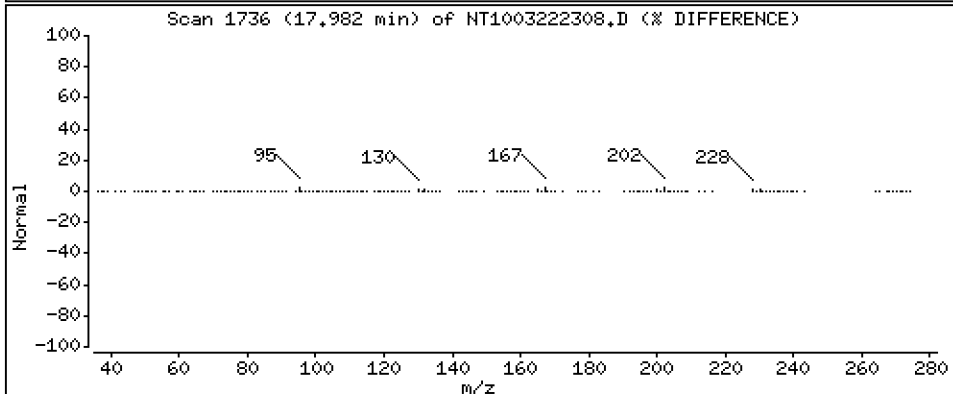
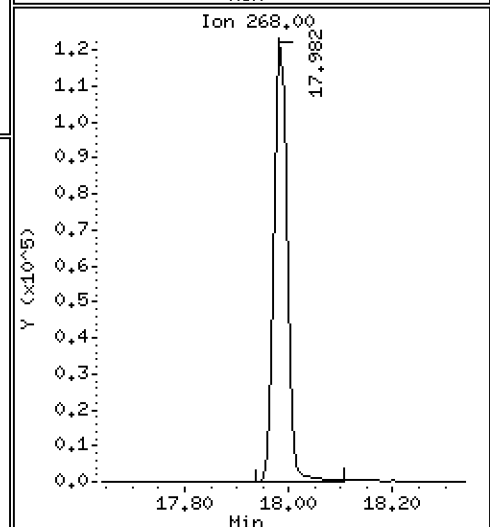
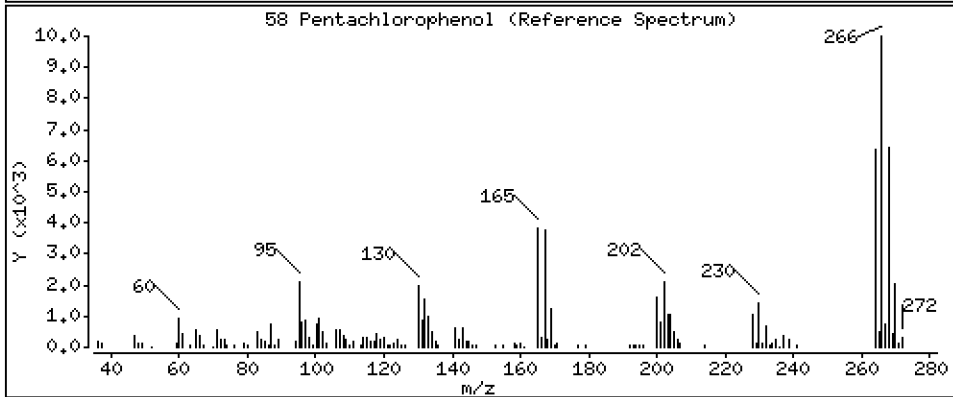
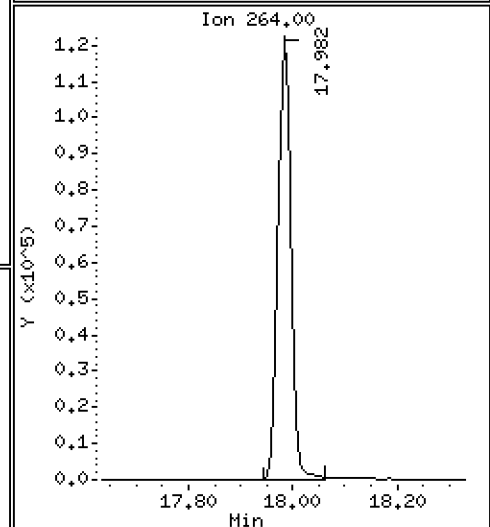
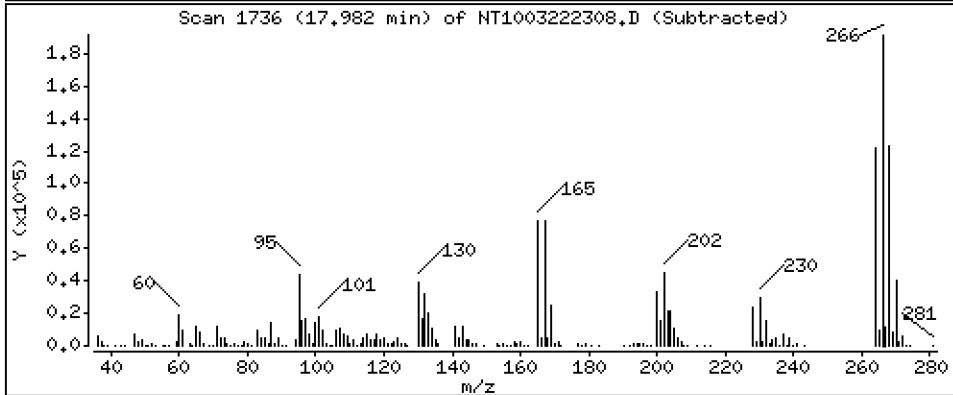
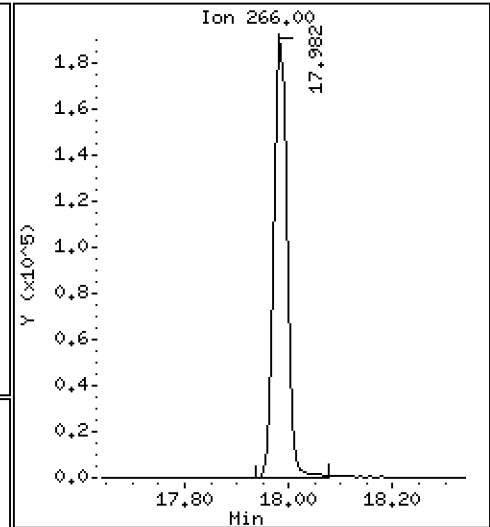
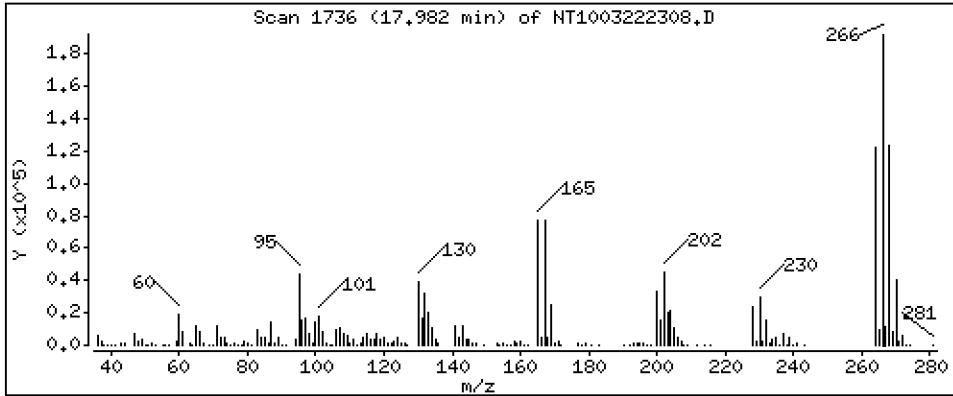
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 15,44 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

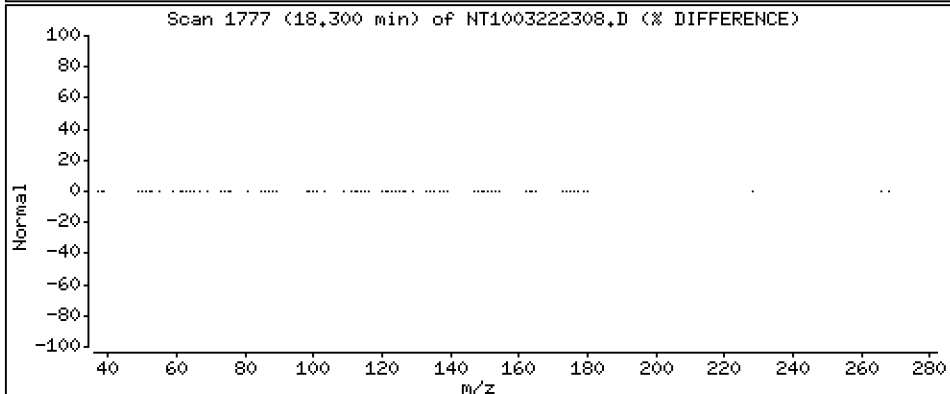
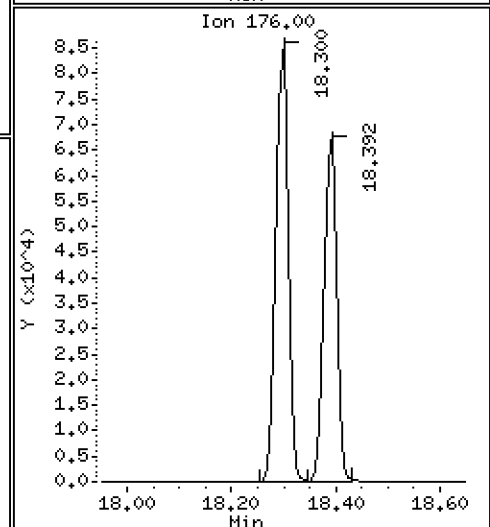
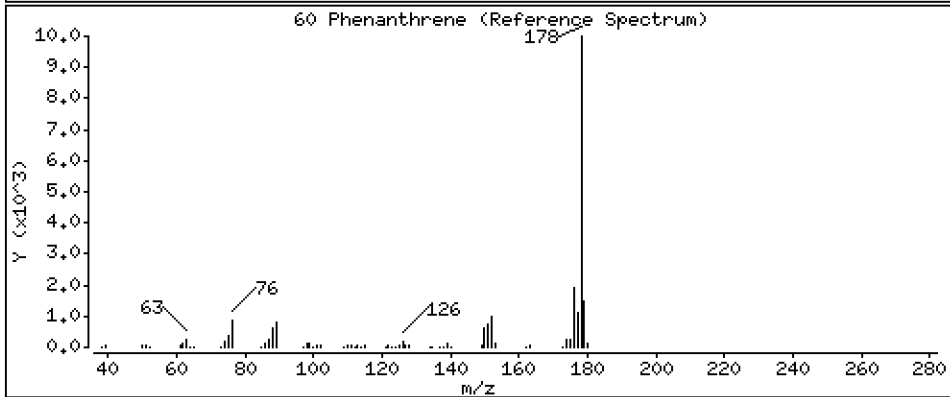
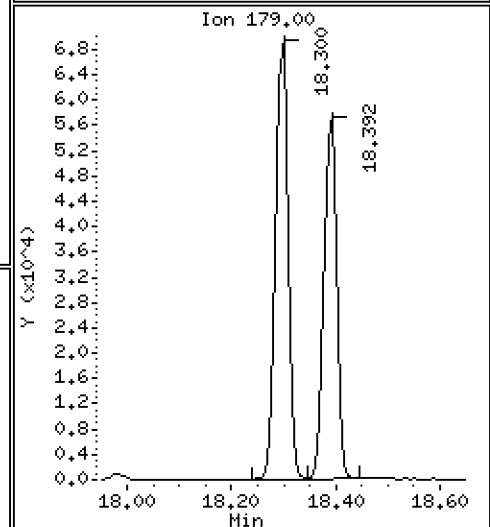
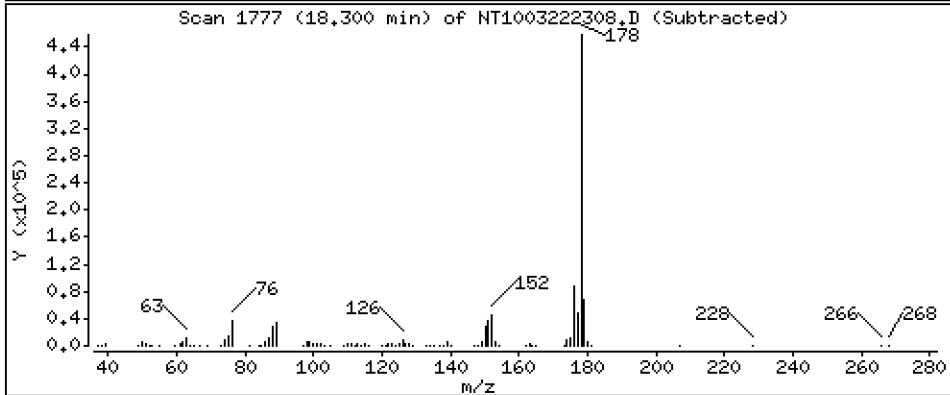
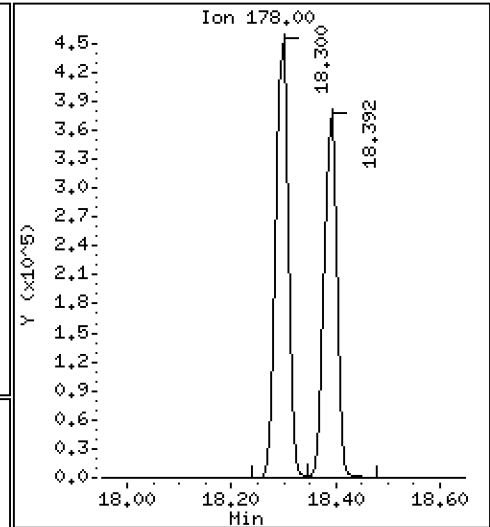
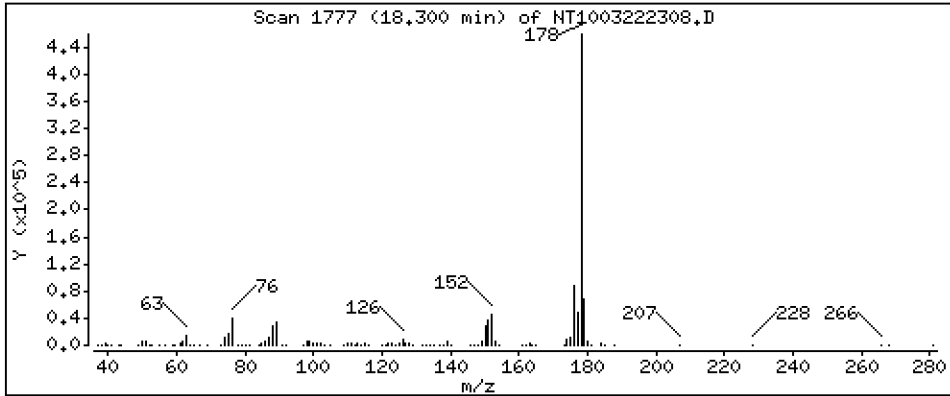
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 4,536 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

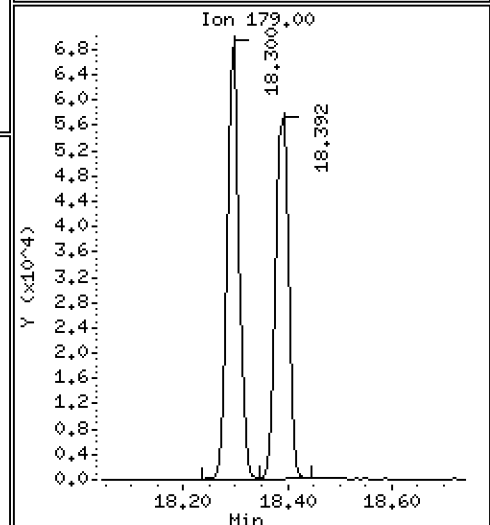
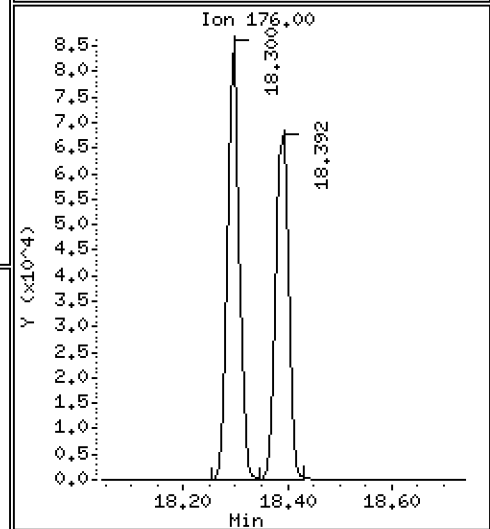
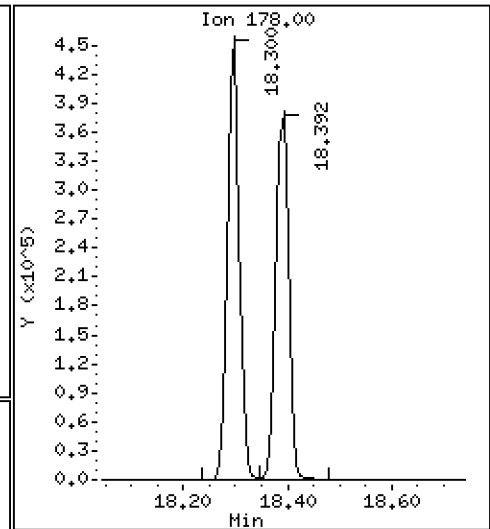
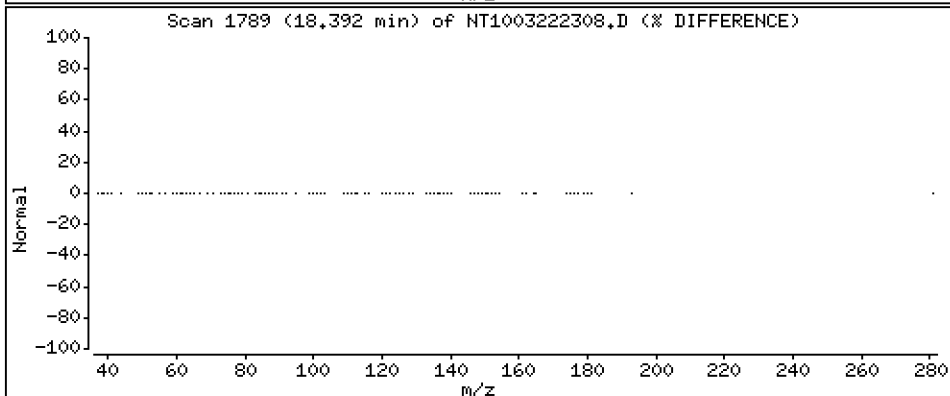
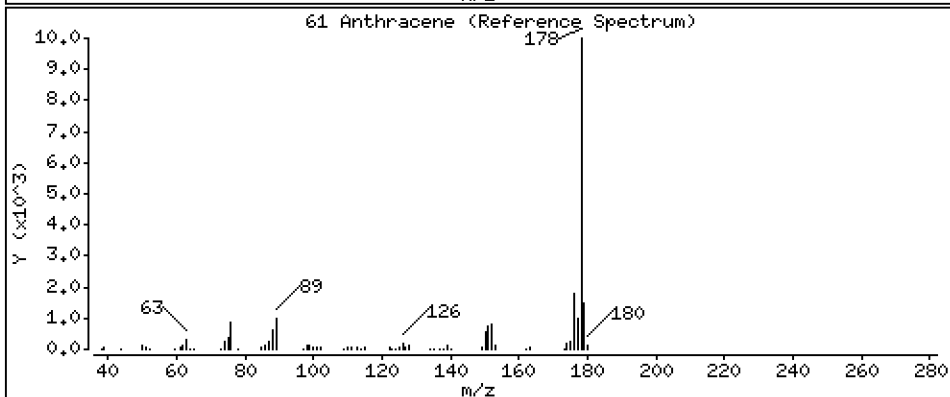
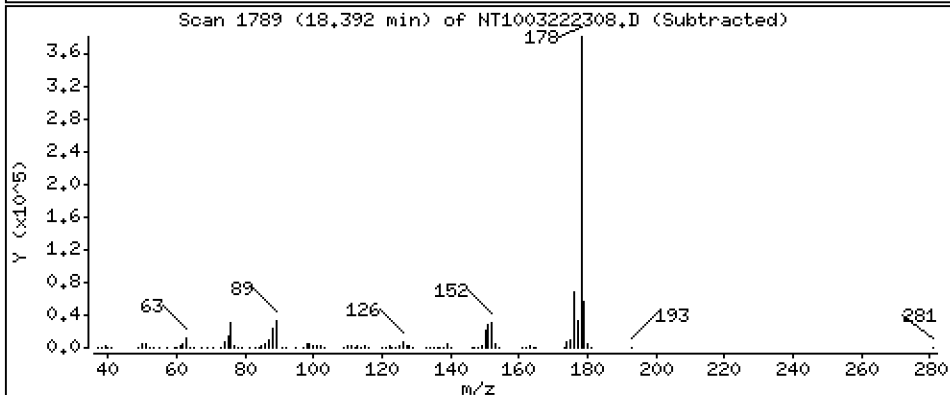
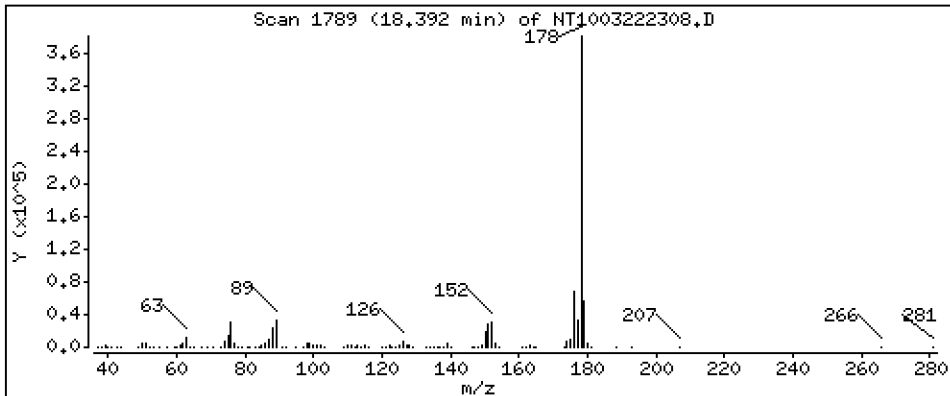
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 4,105 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

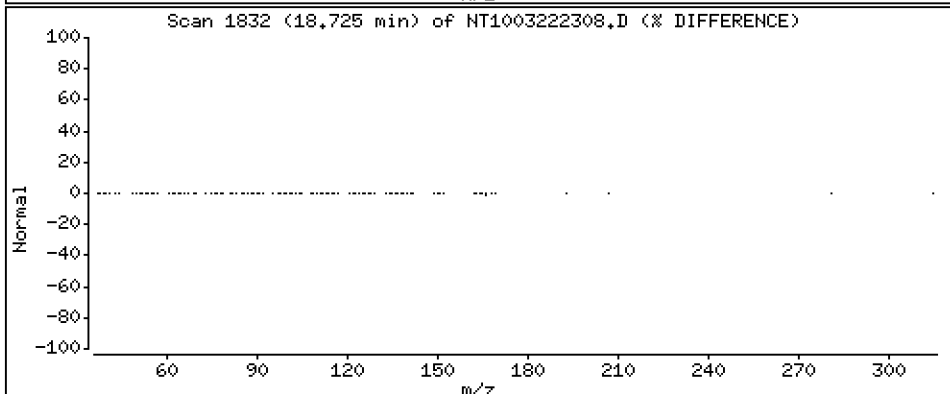
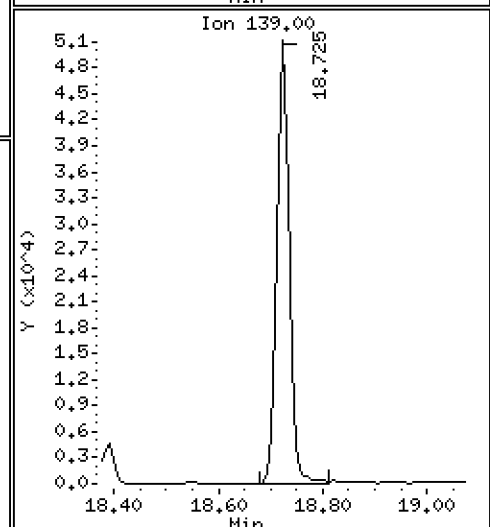
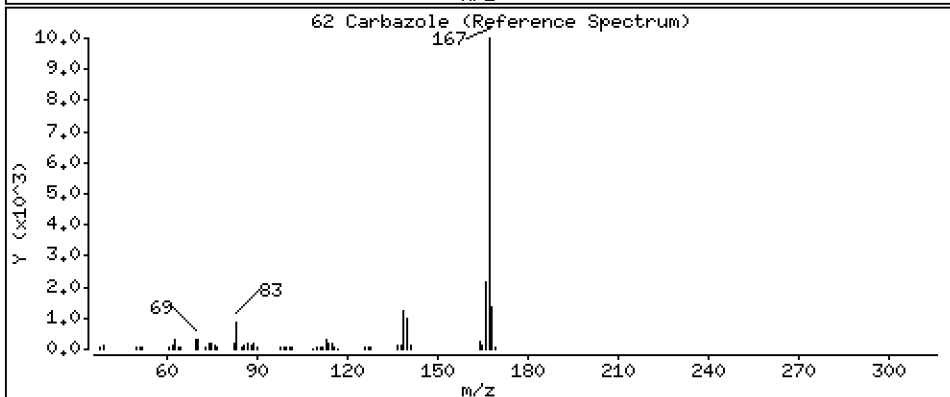
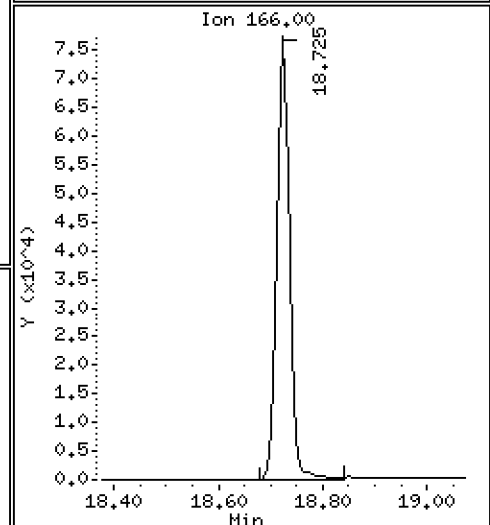
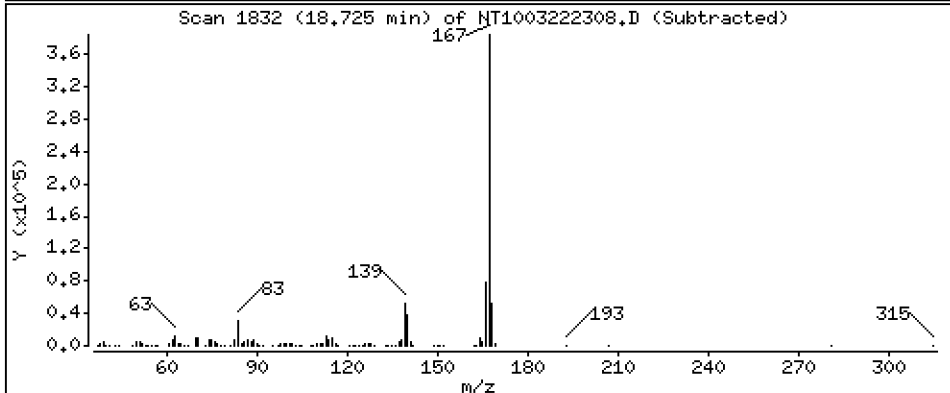
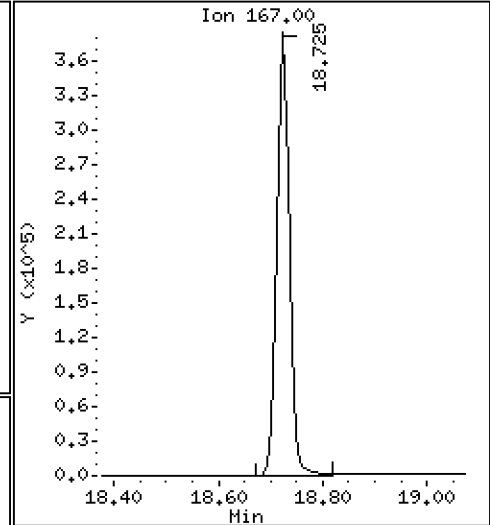
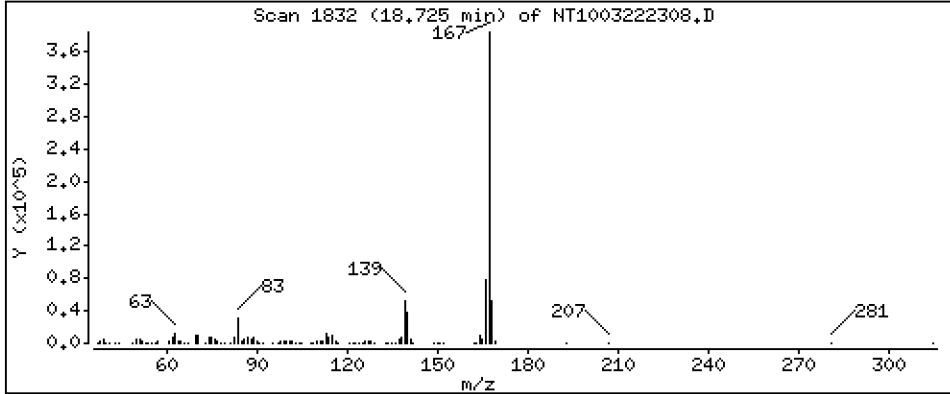
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 4,466 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

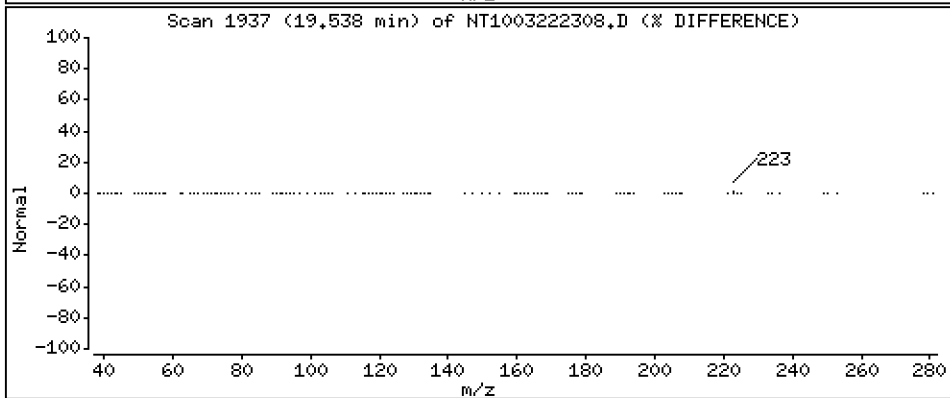
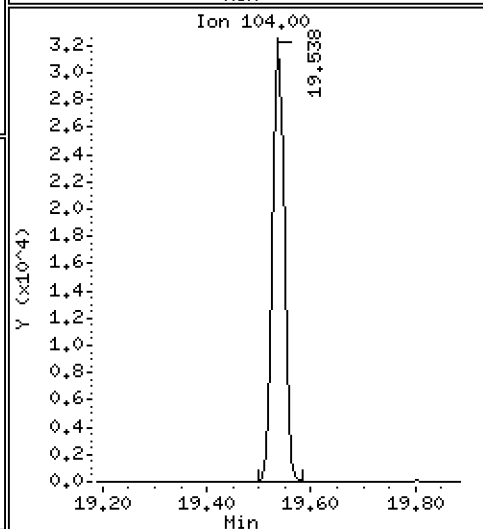
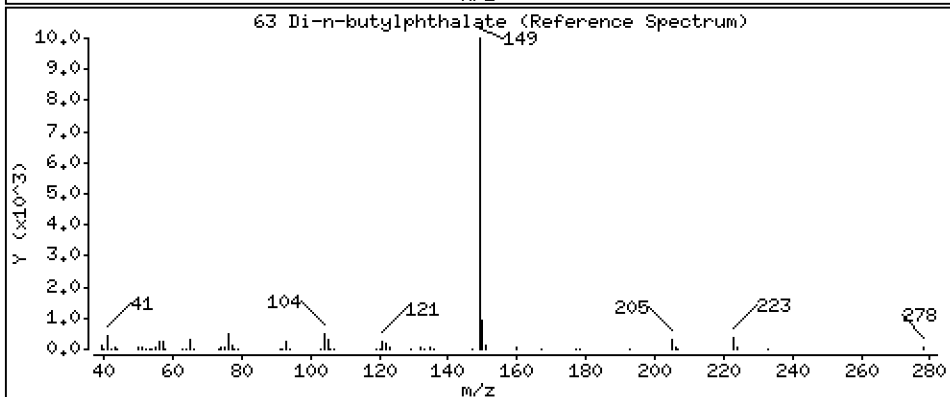
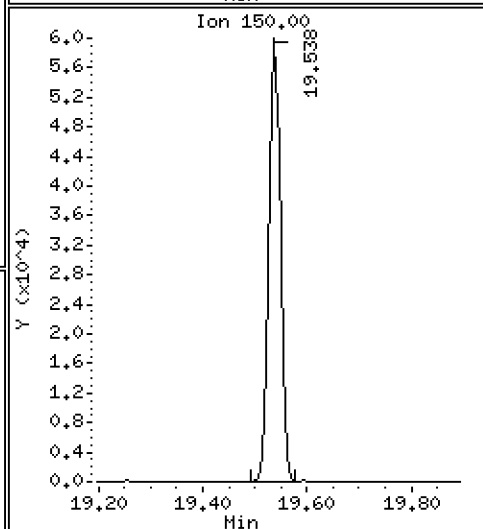
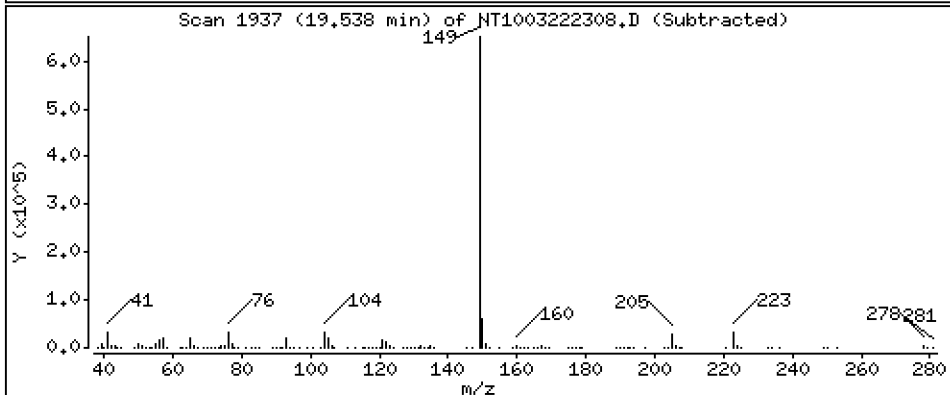
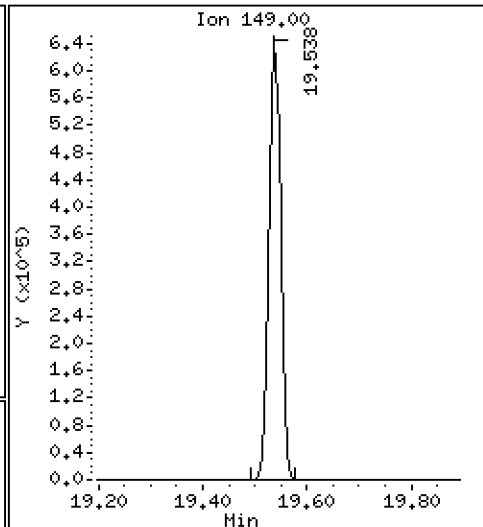
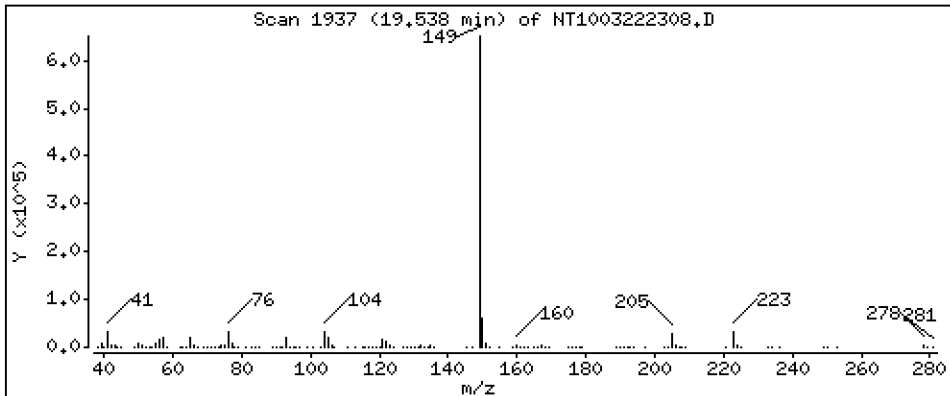
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 5,236 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

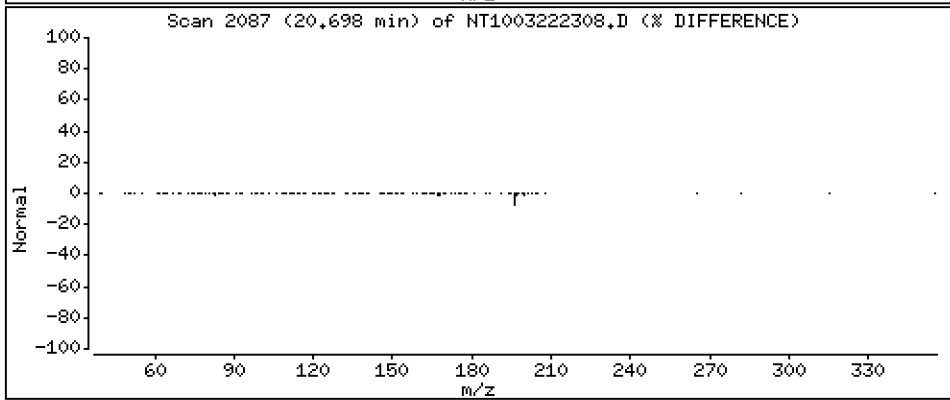
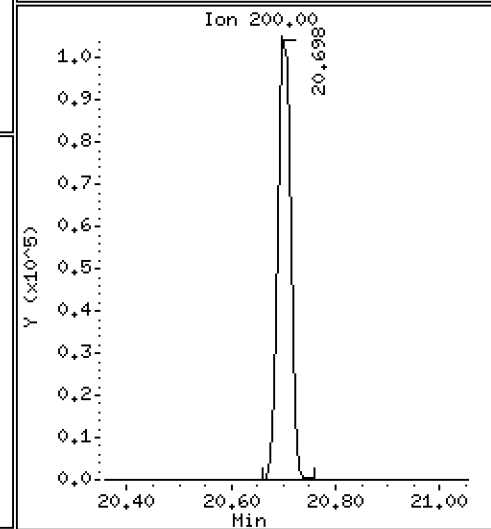
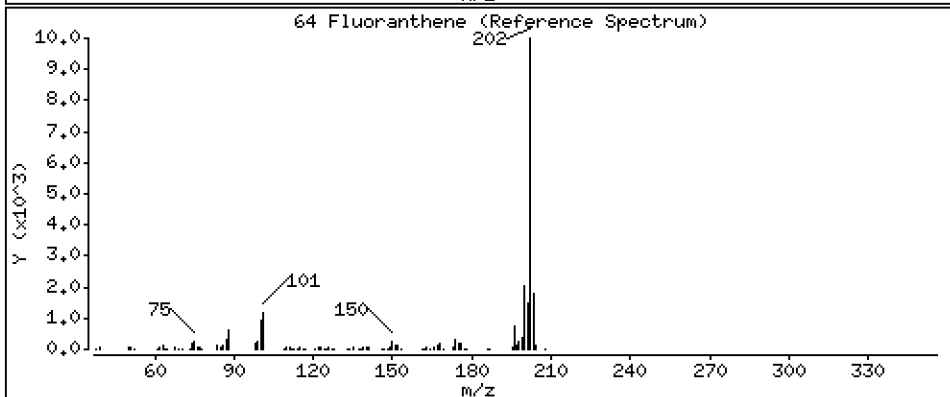
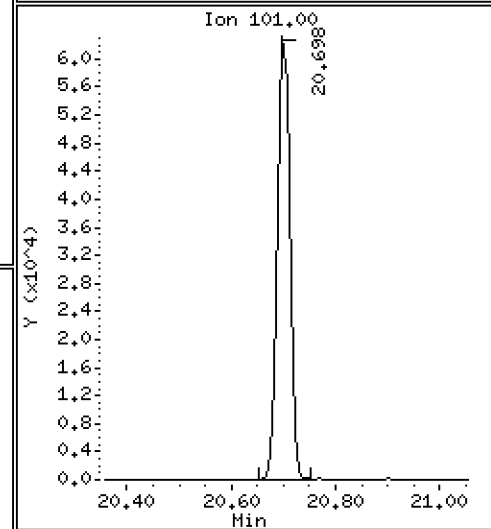
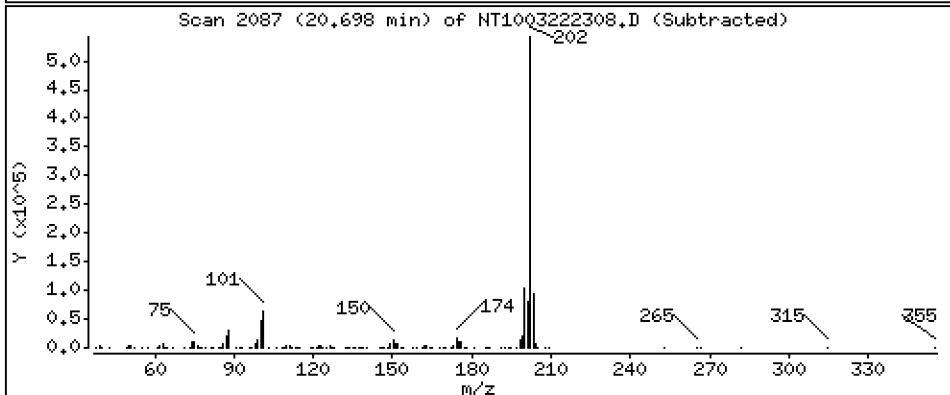
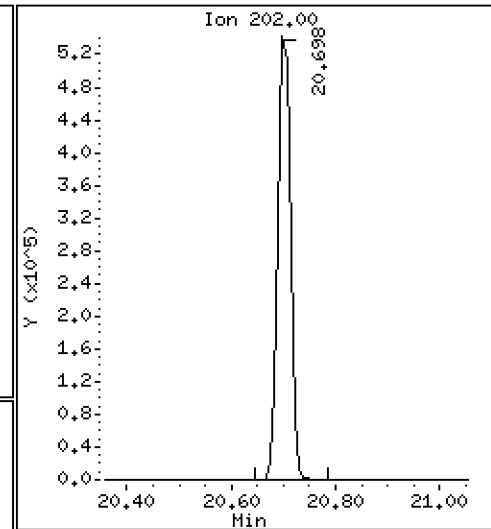
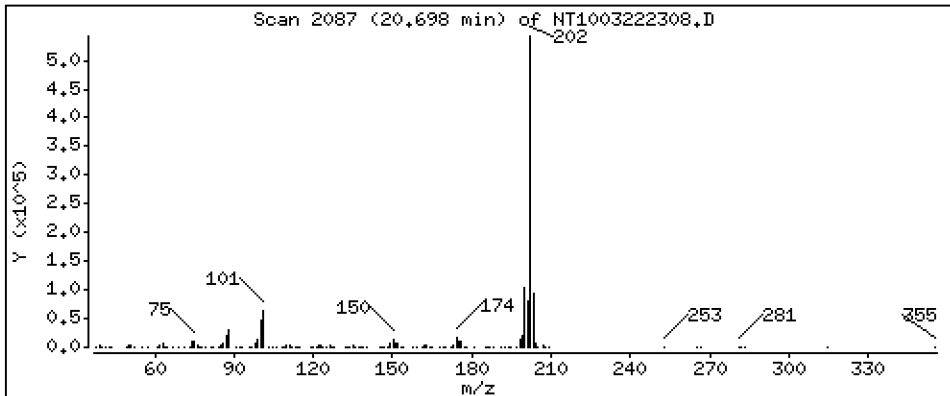
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 4,268 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

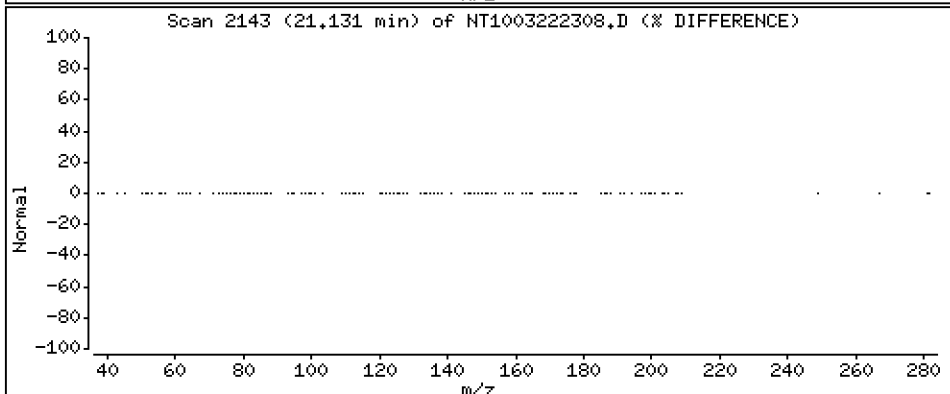
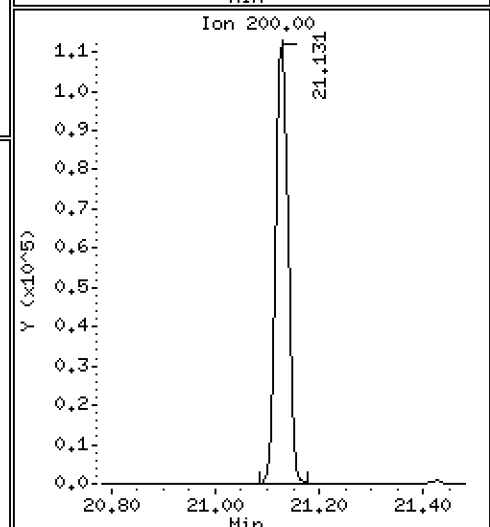
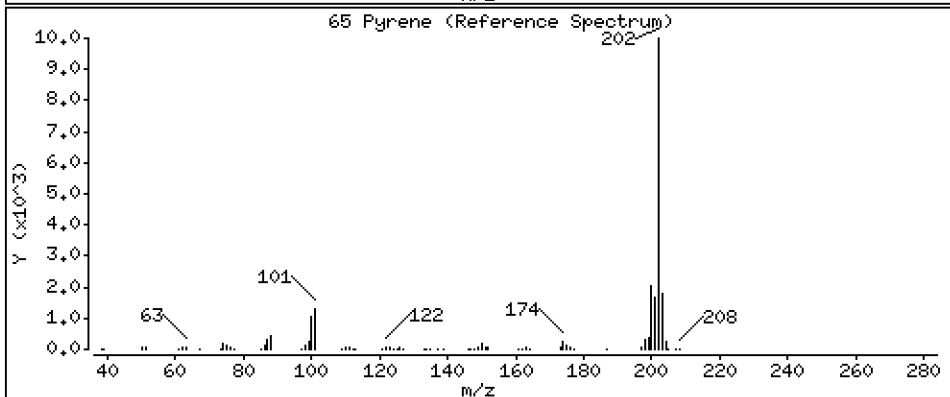
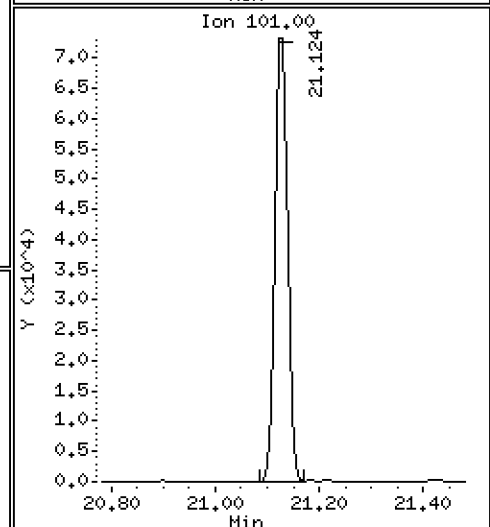
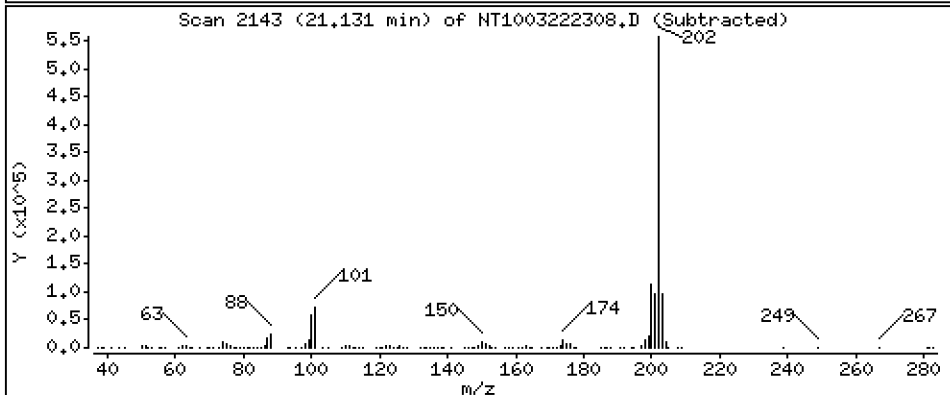
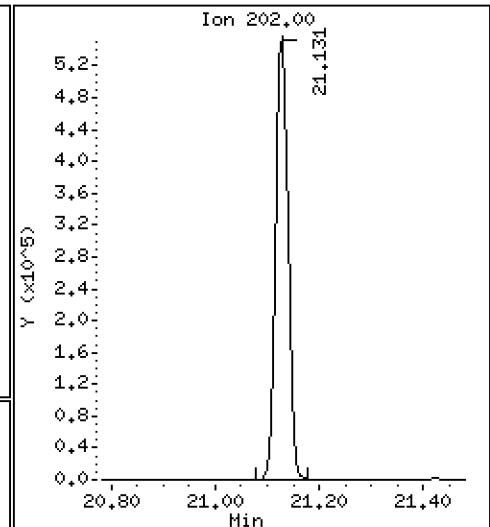
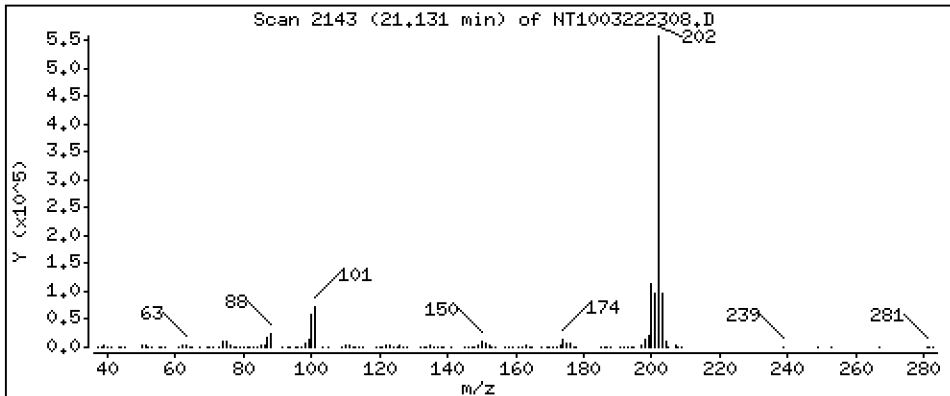
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 4,176 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

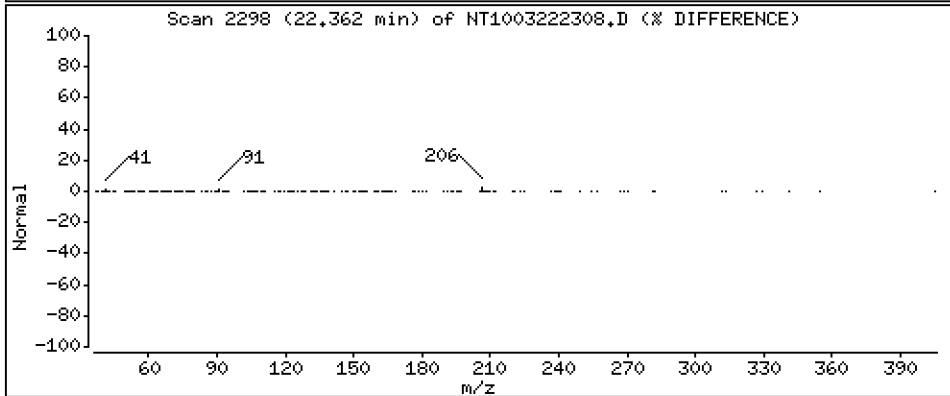
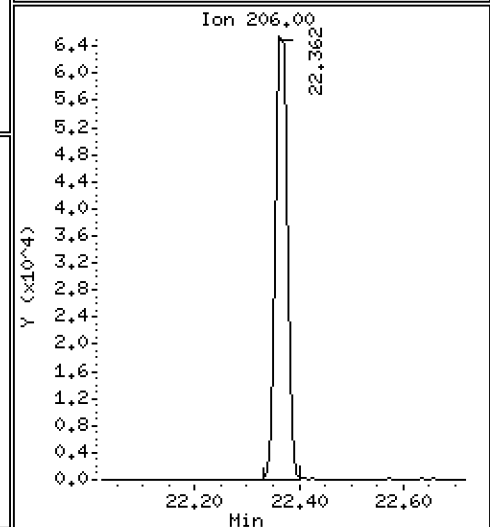
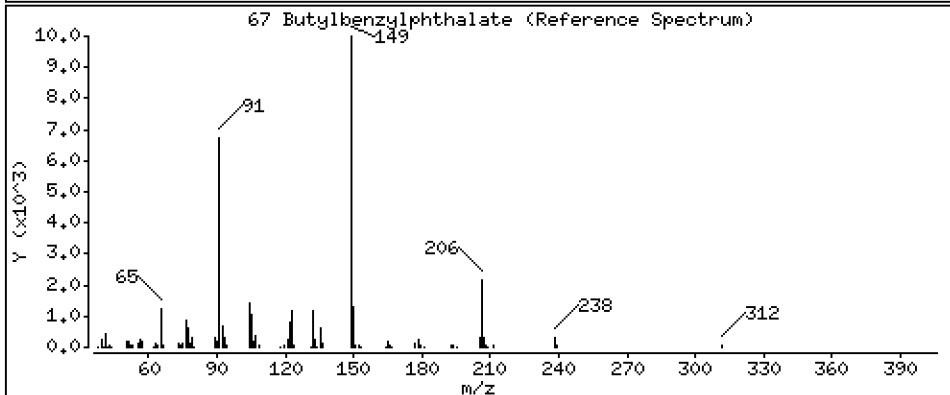
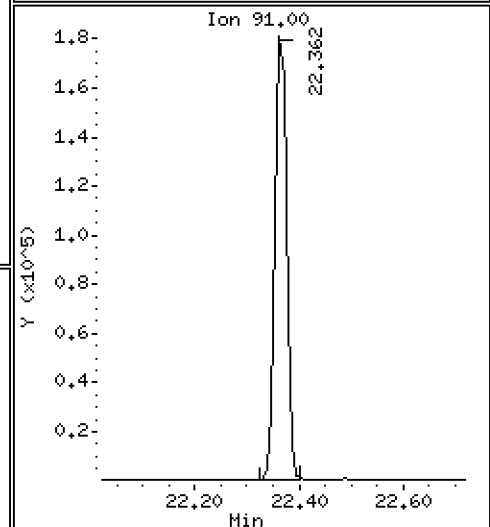
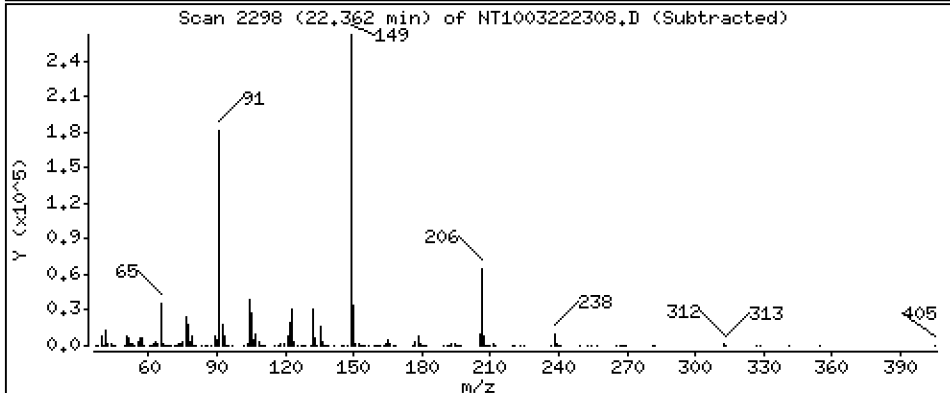
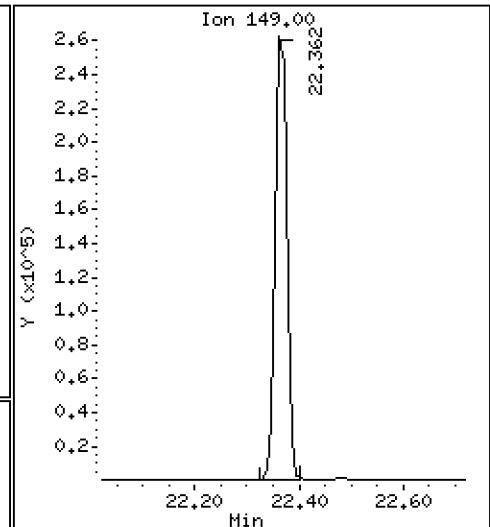
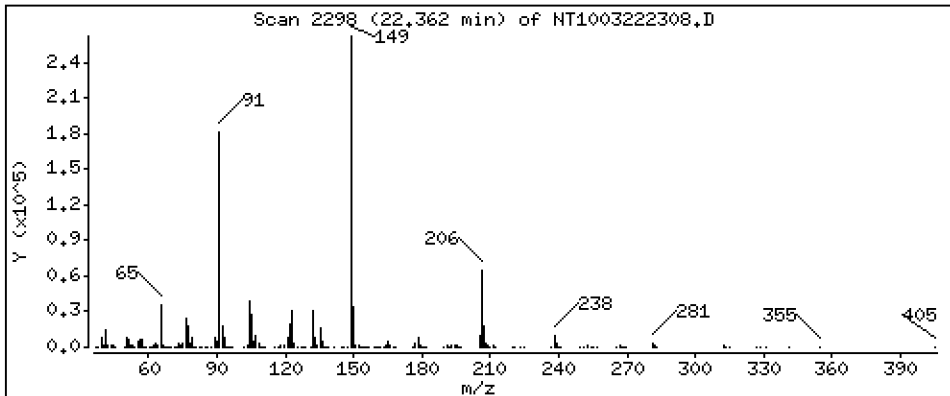
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 5,034 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

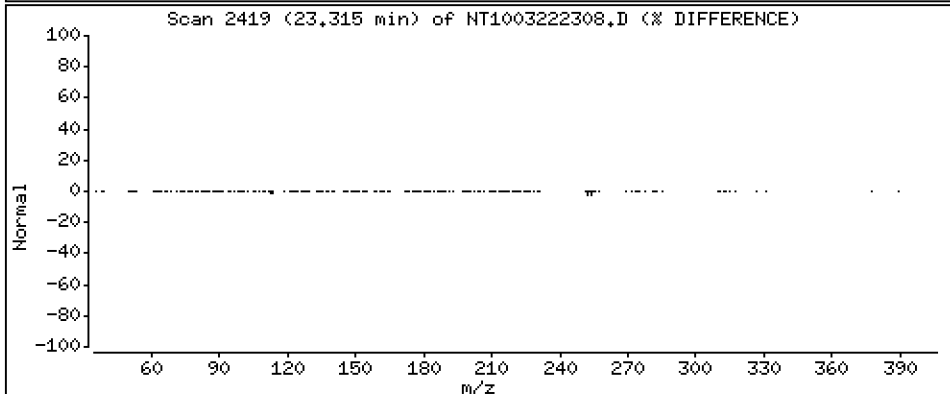
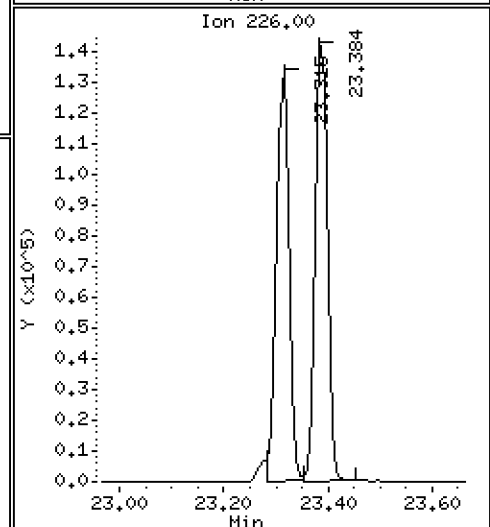
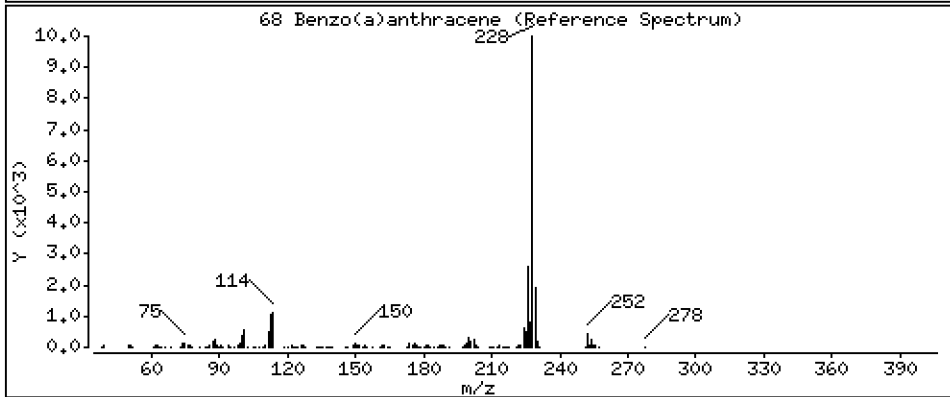
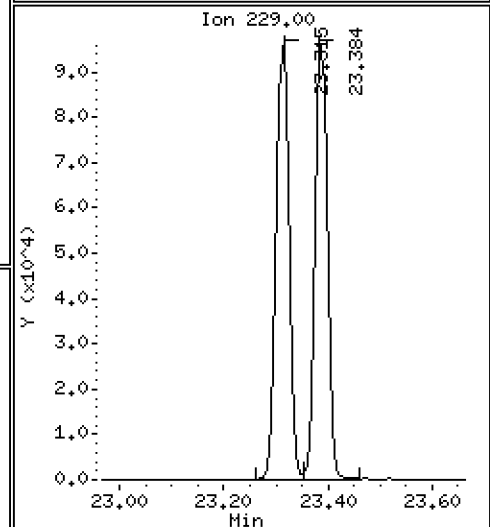
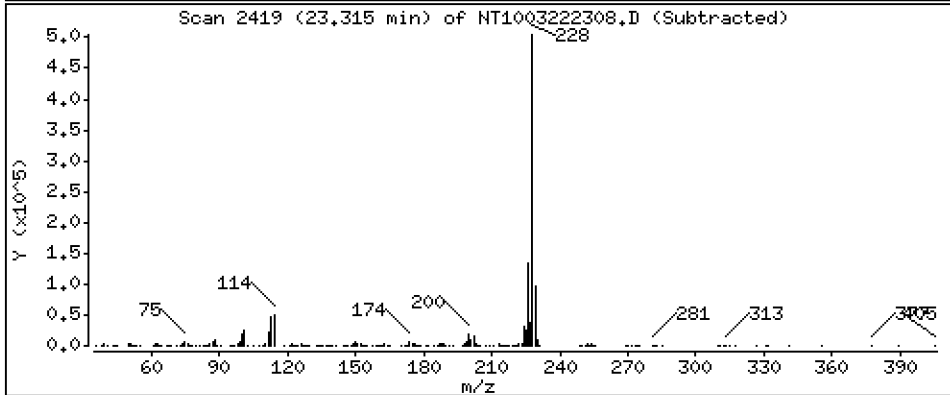
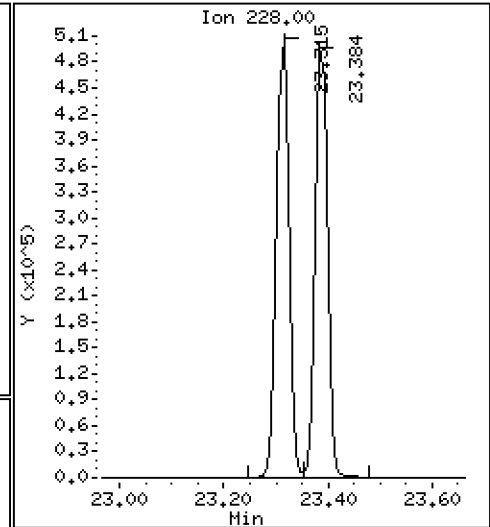
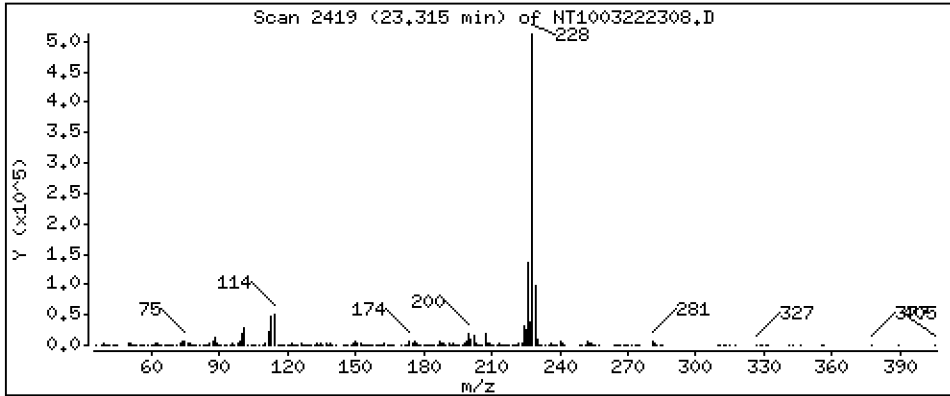
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 4,526 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

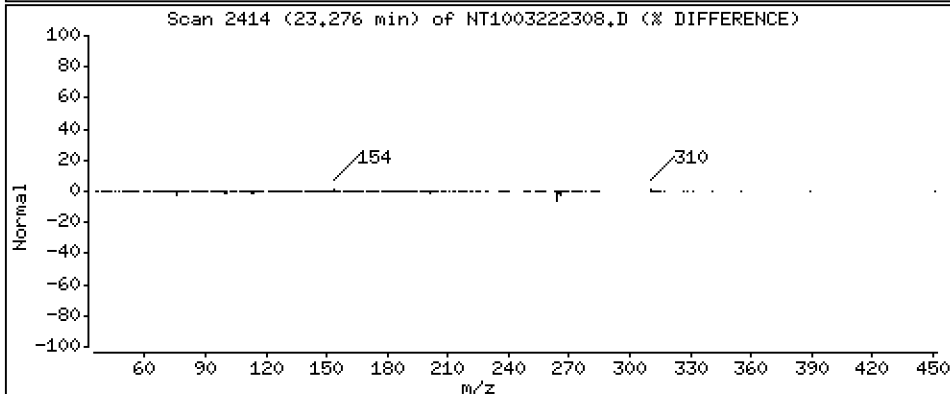
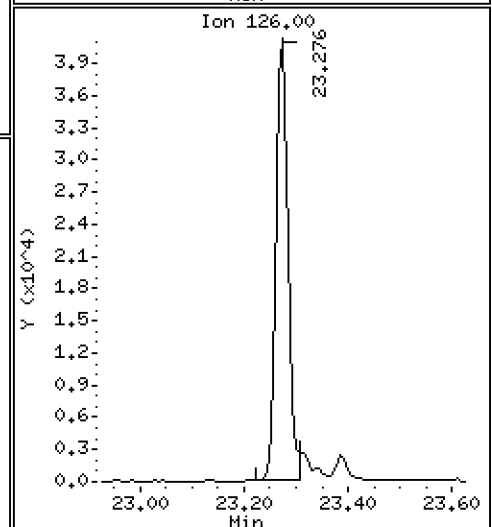
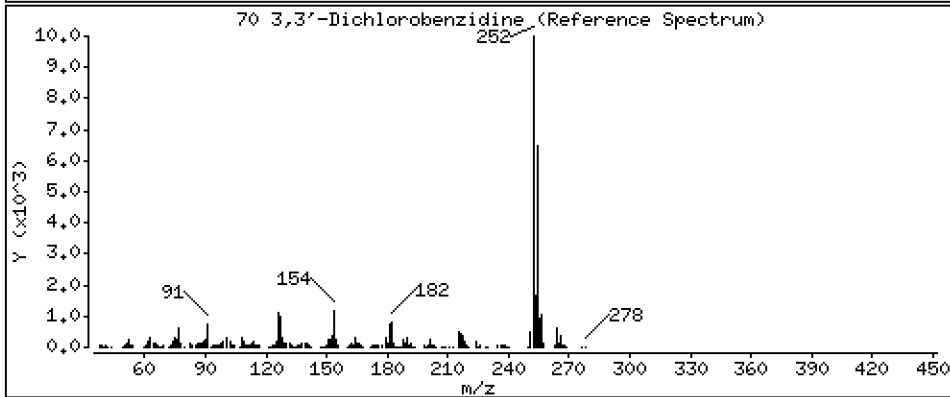
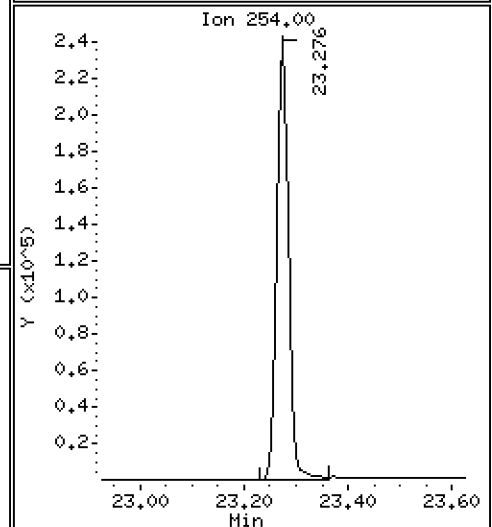
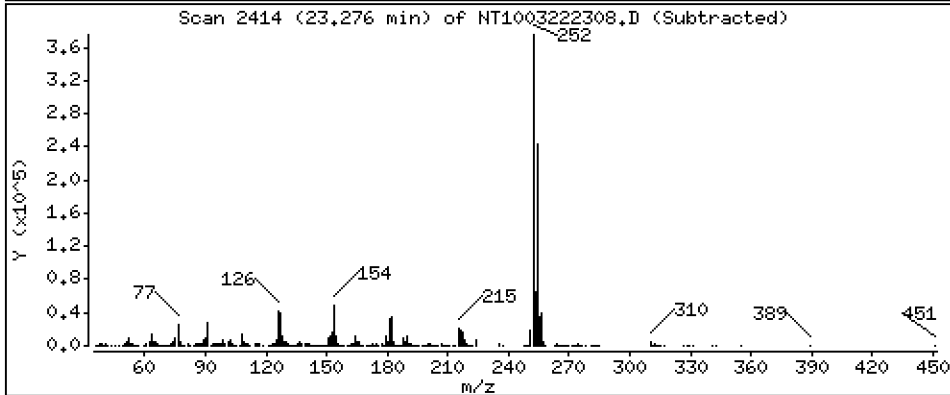
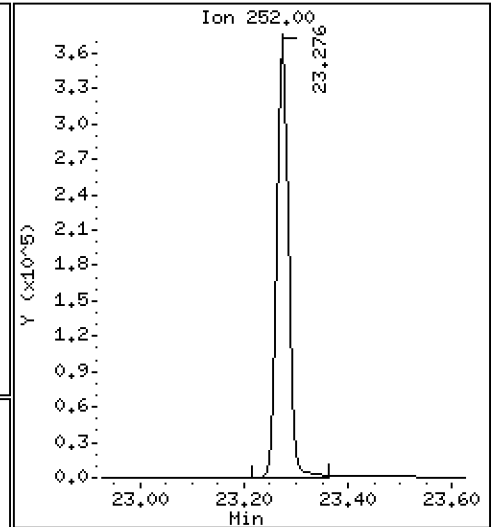
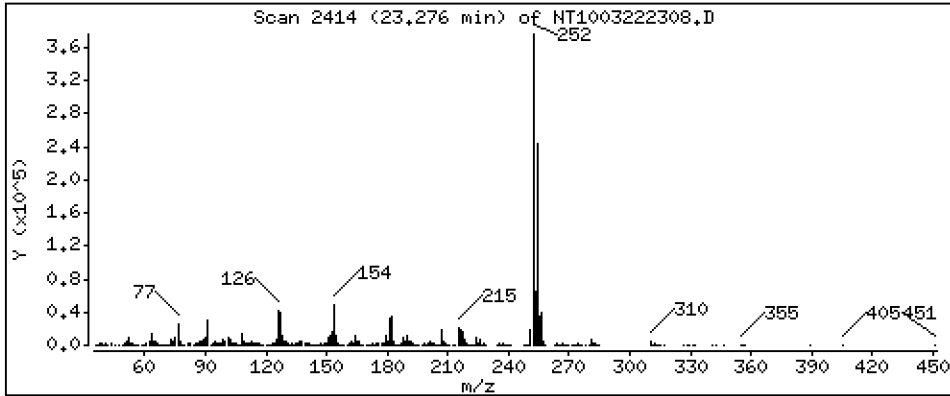
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

70 3,3'-Dichlorobenzidine

Concentration: 9,504 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

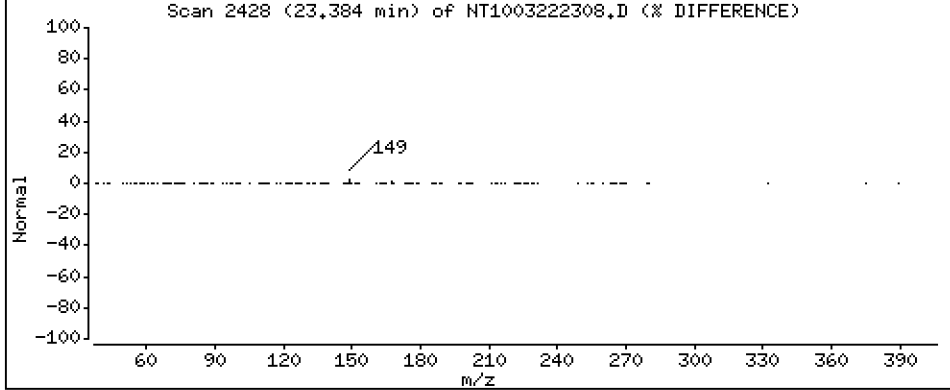
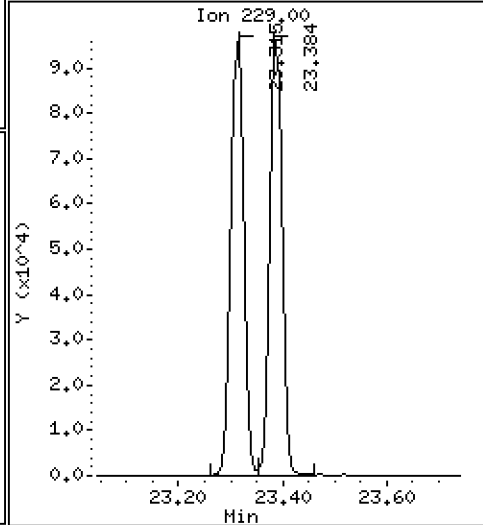
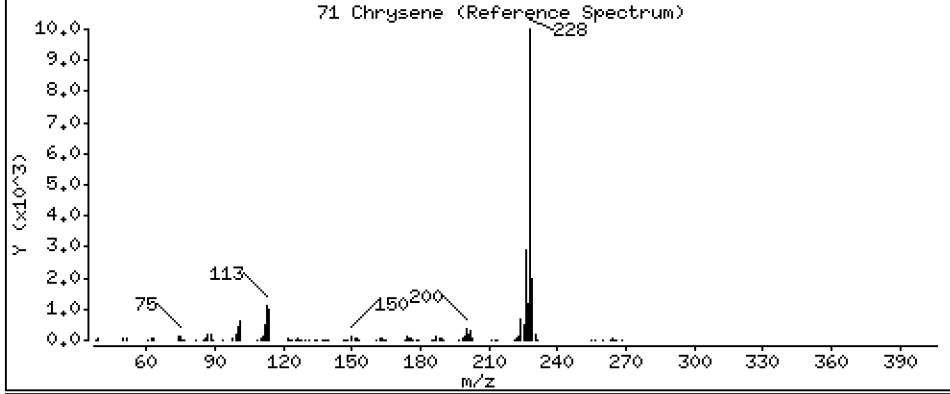
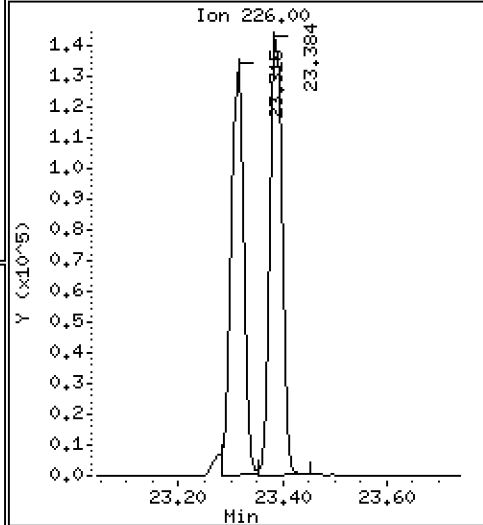
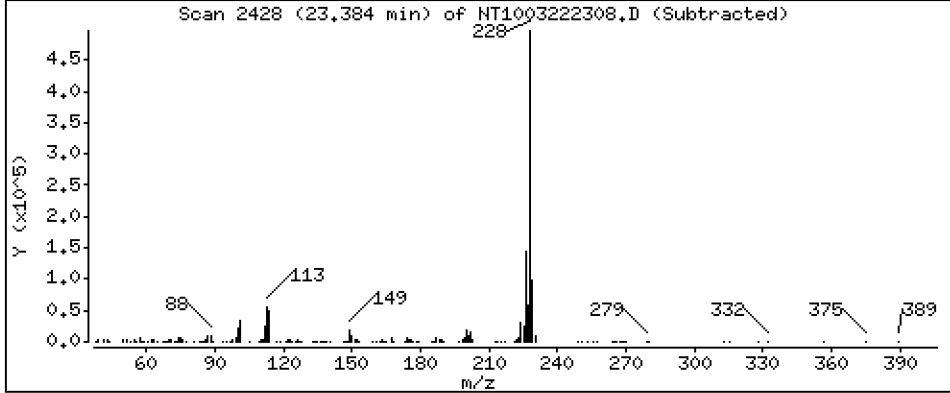
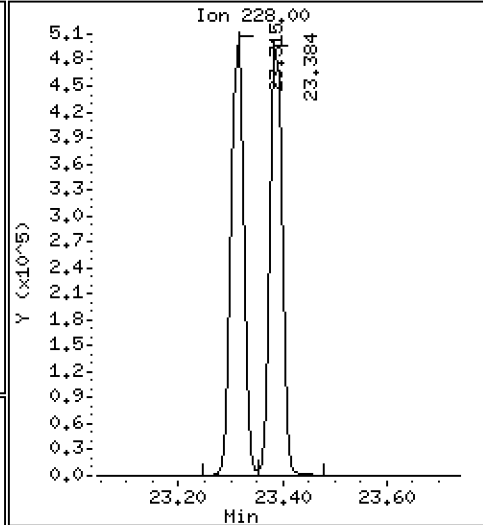
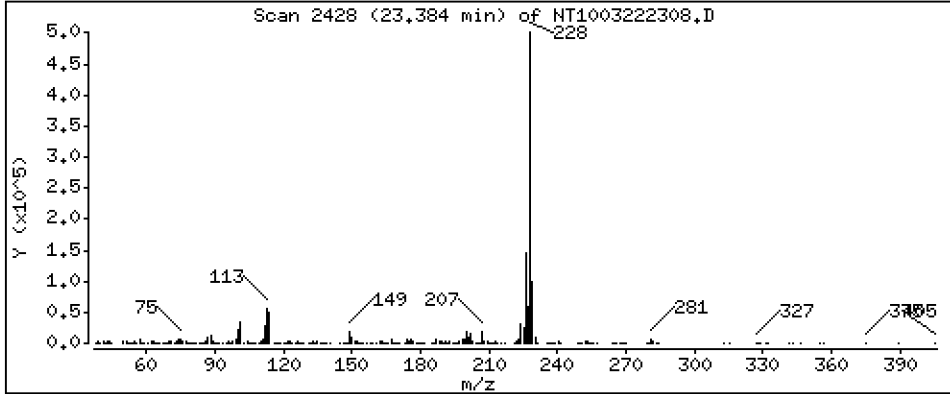
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 4,376 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

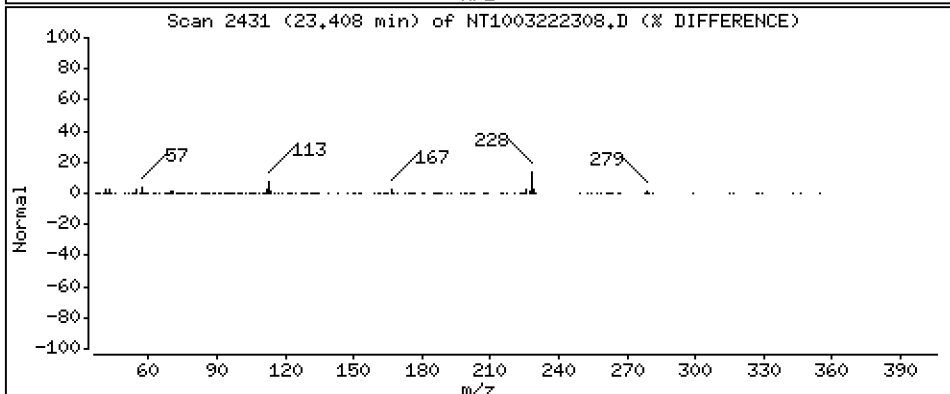
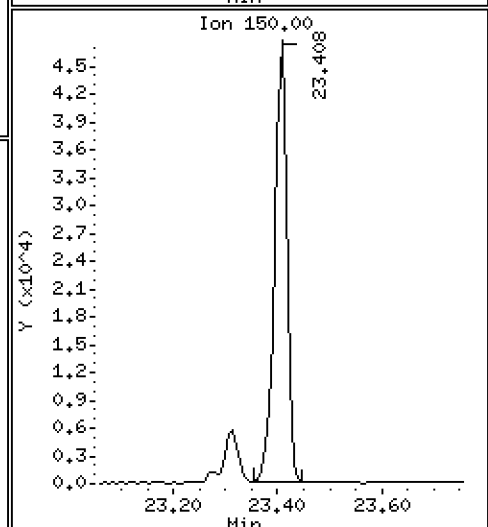
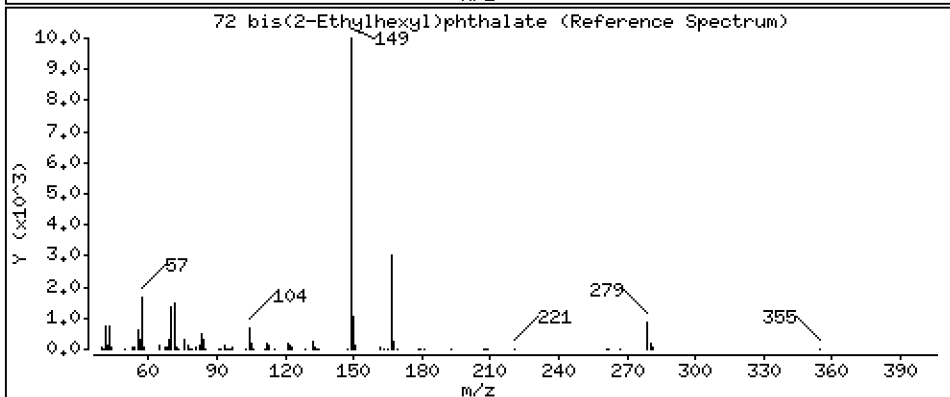
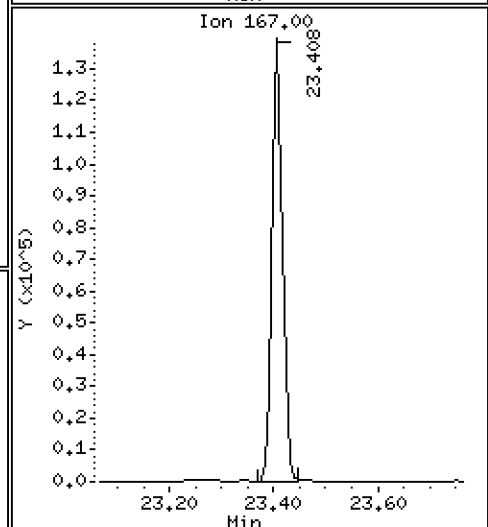
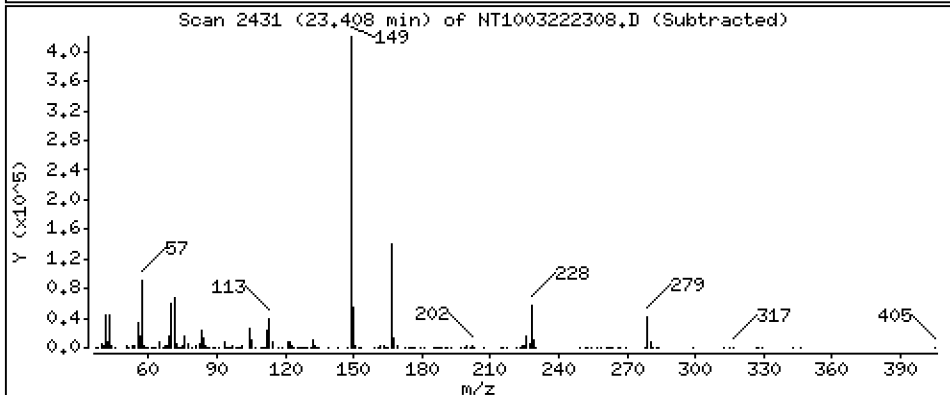
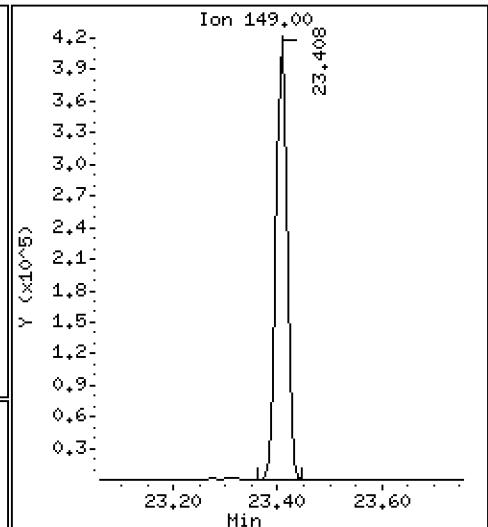
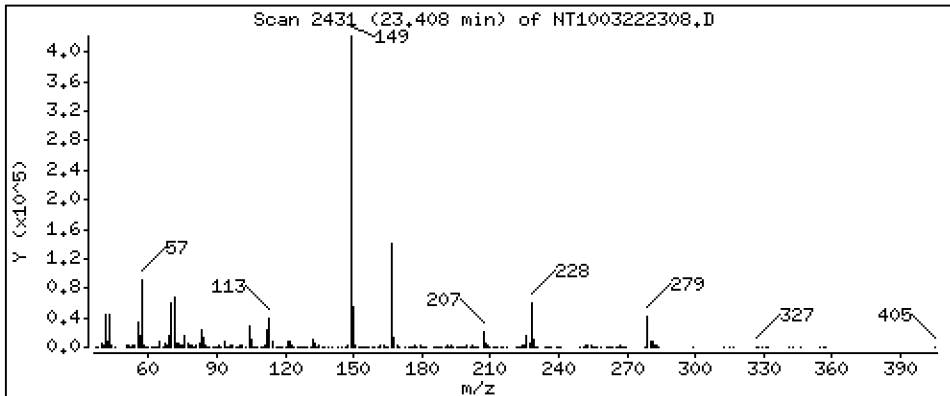
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 4,724 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

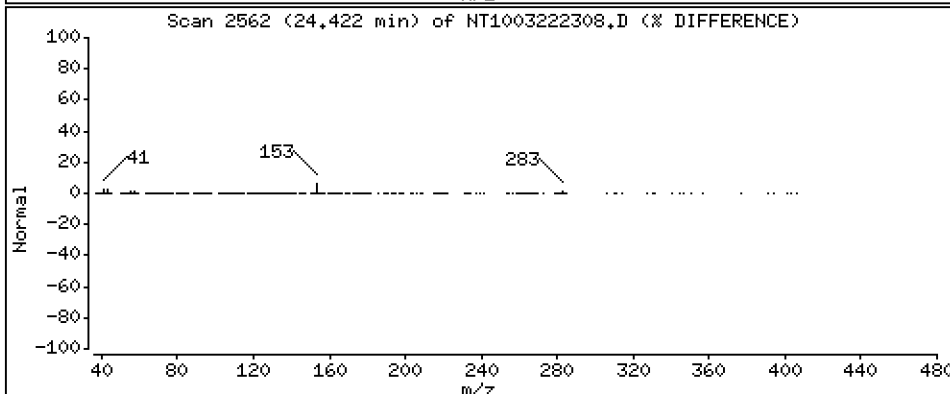
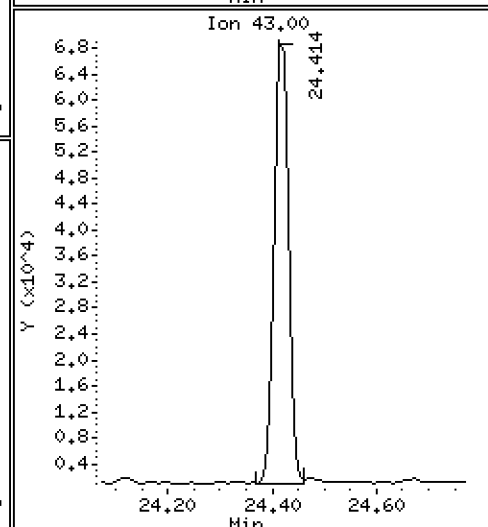
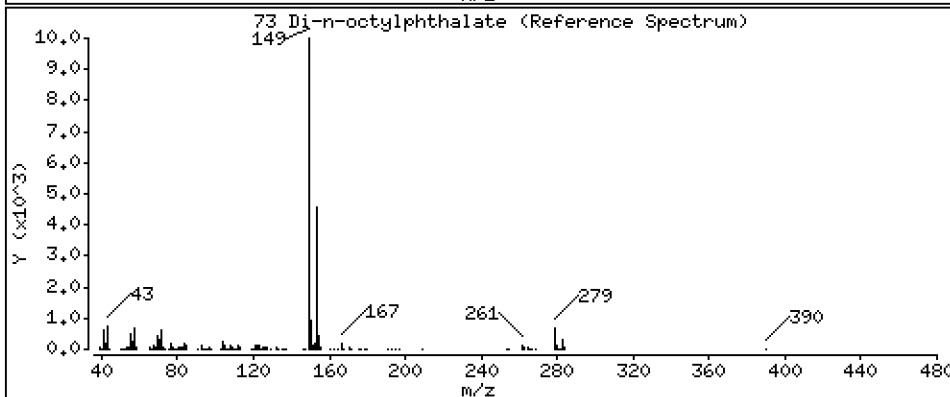
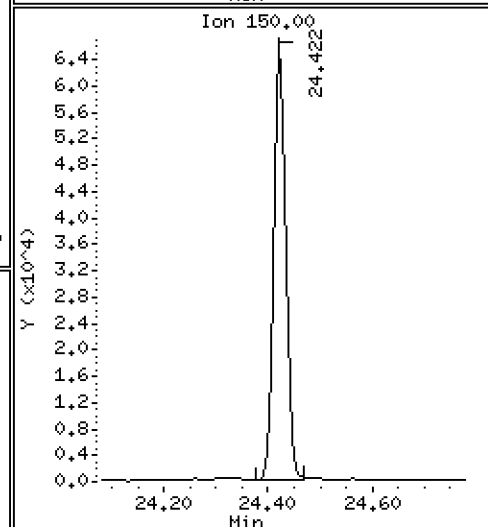
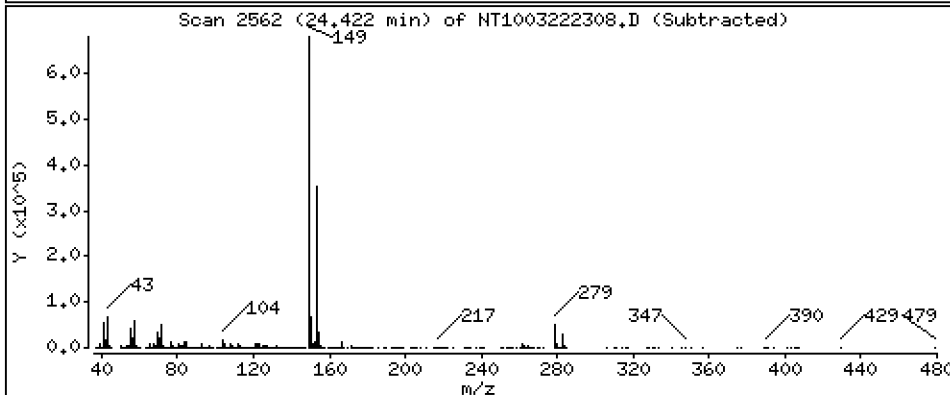
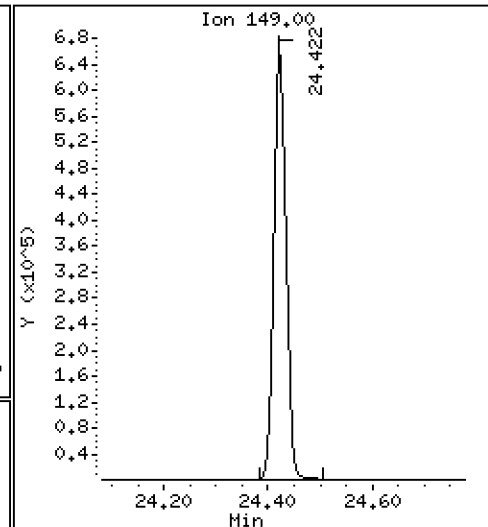
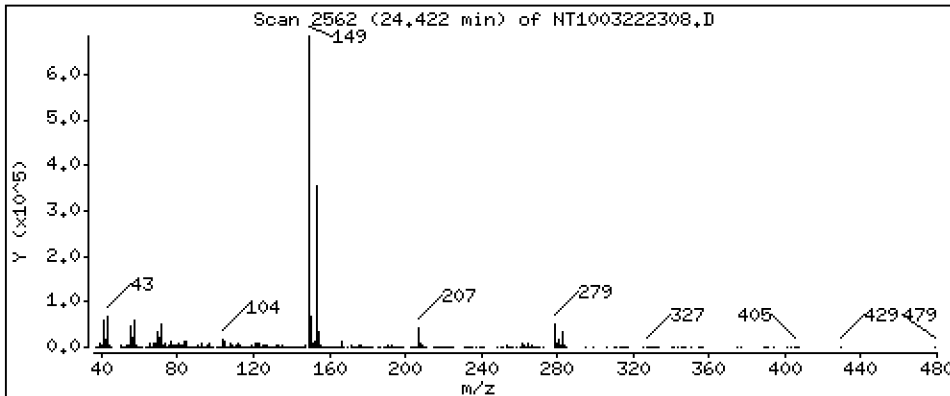
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 4,755 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

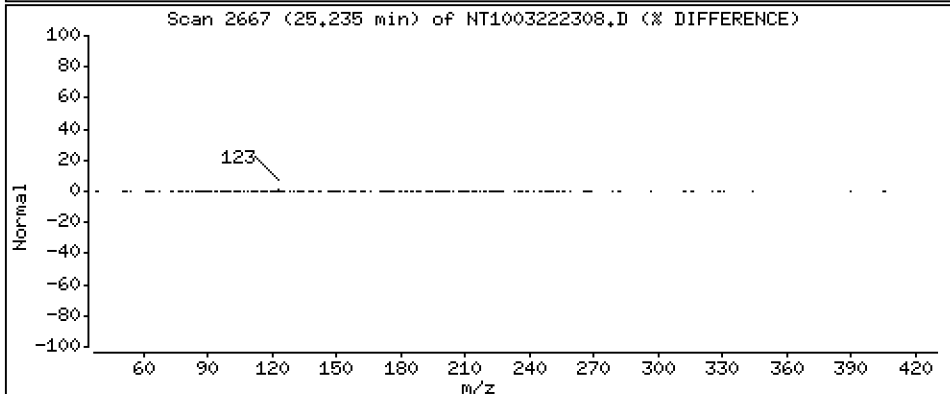
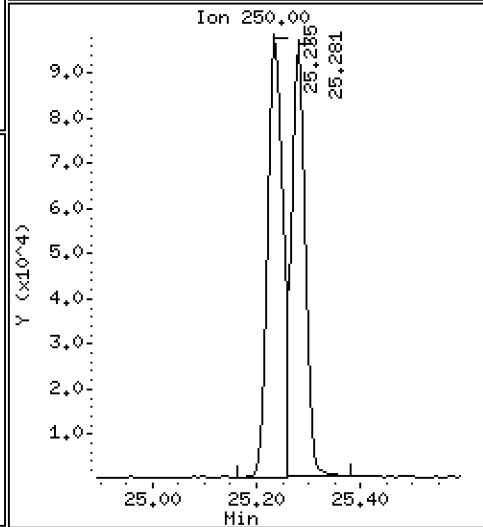
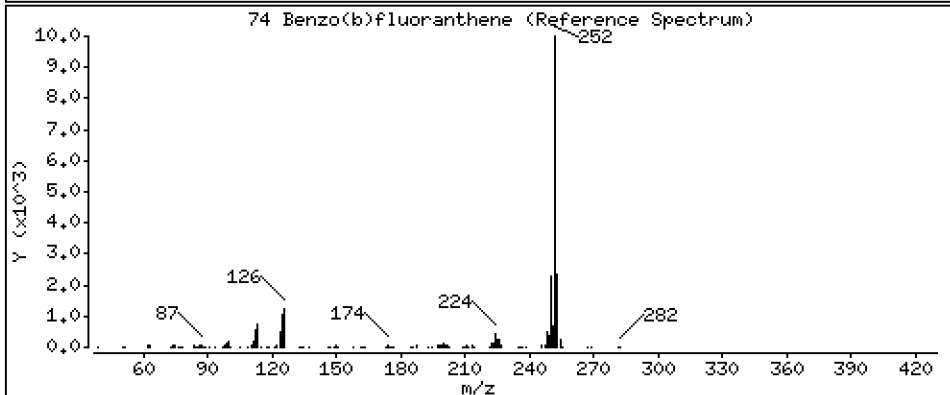
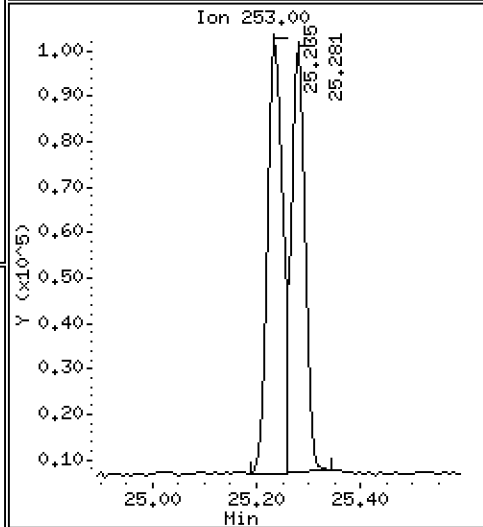
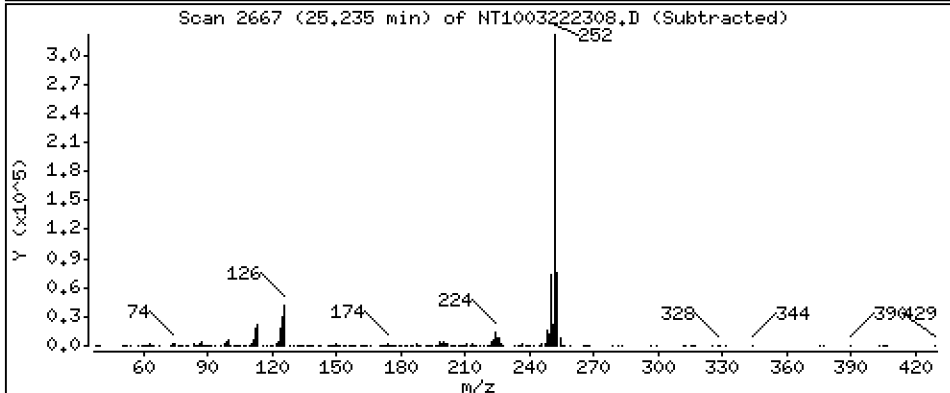
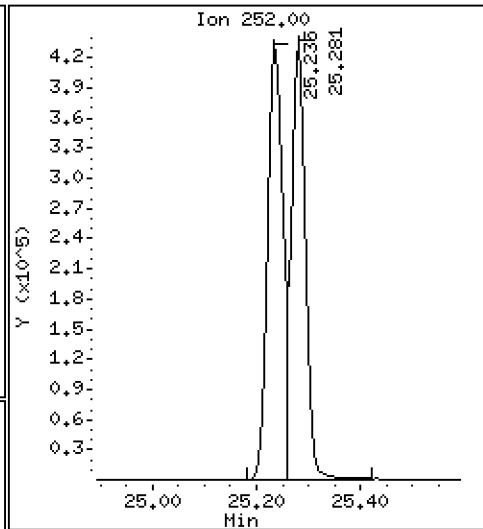
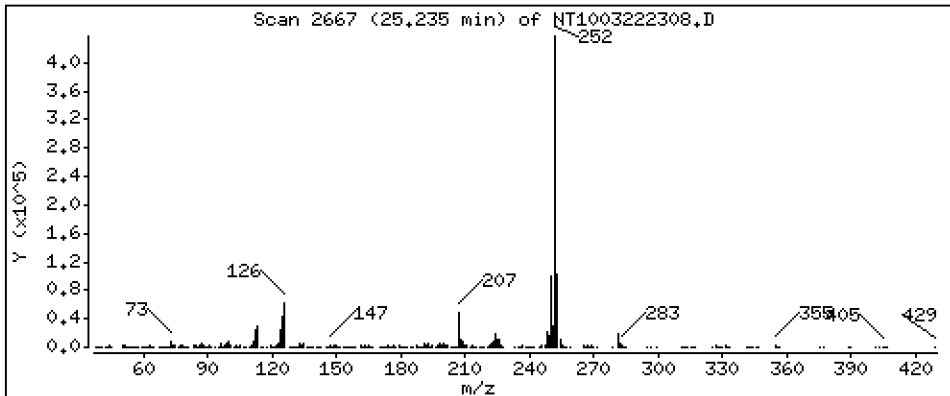
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 4,823 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

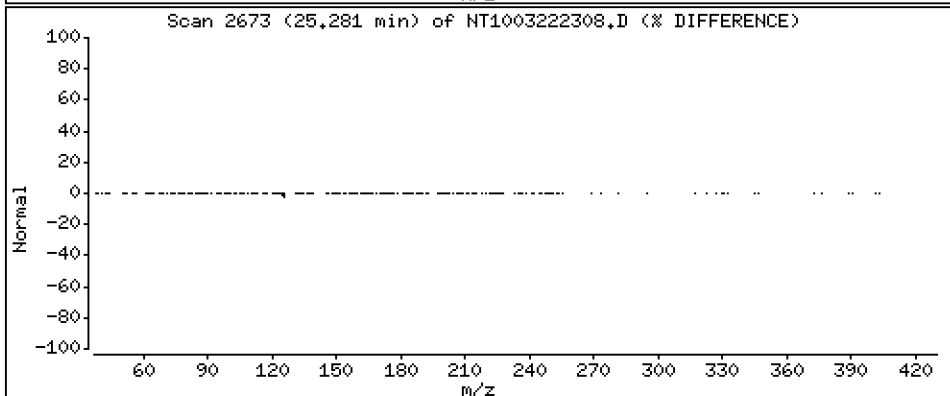
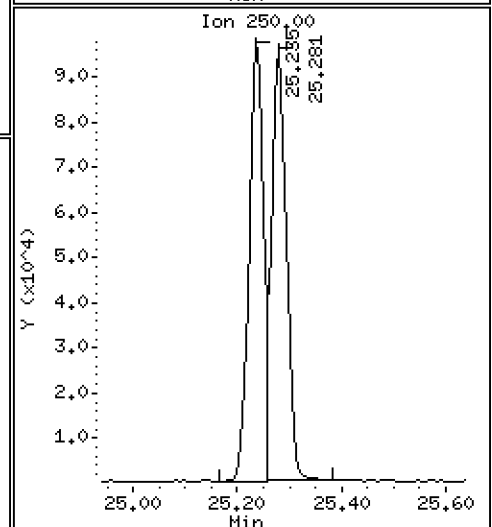
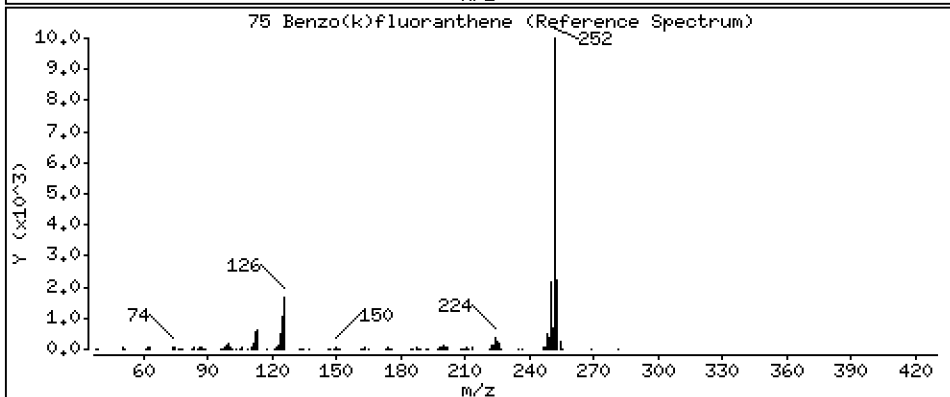
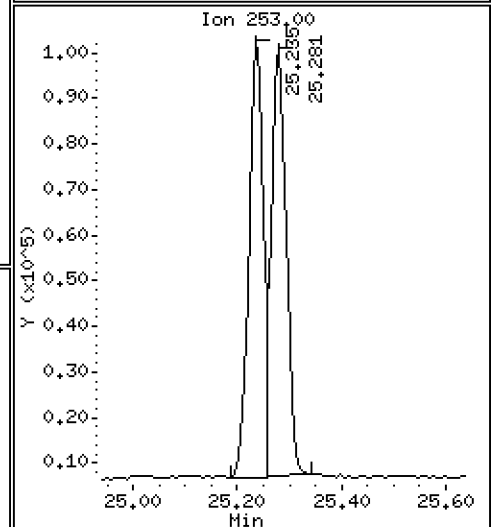
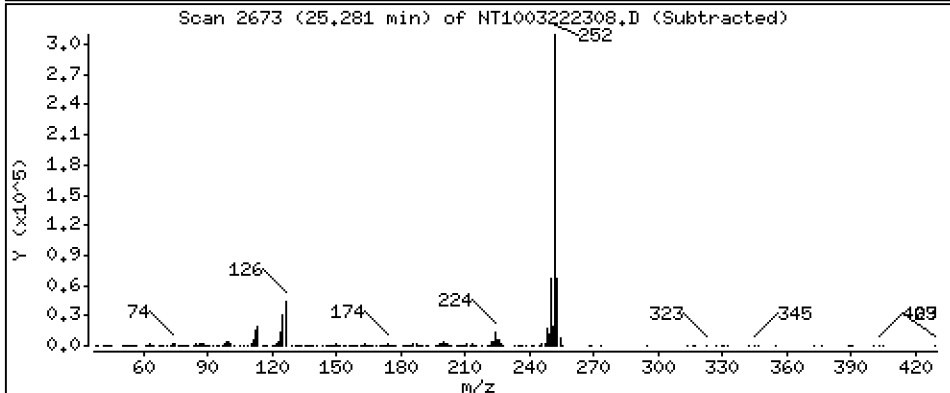
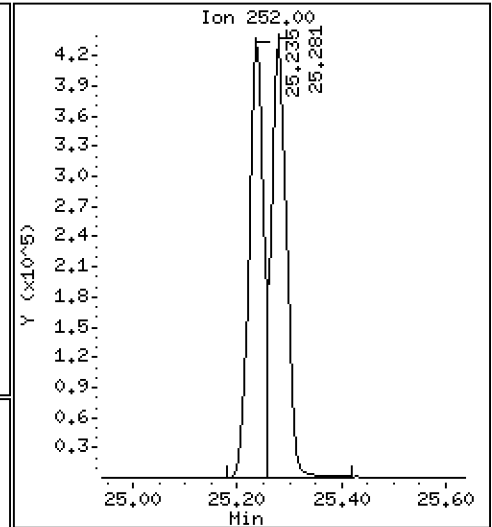
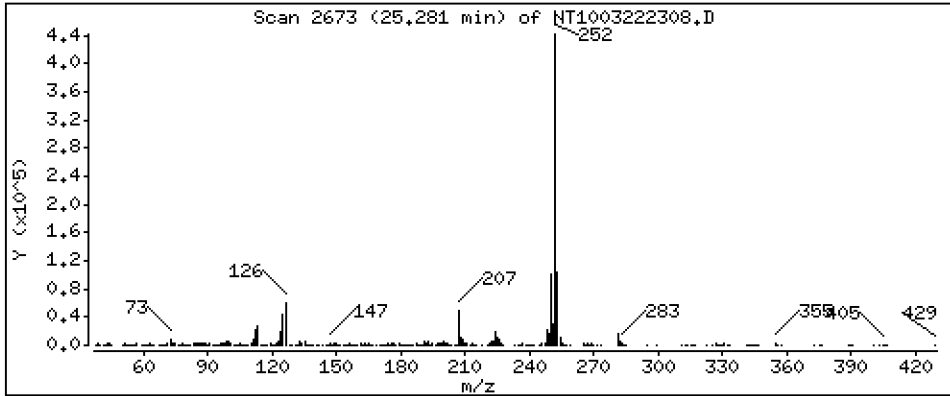
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 4,850 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

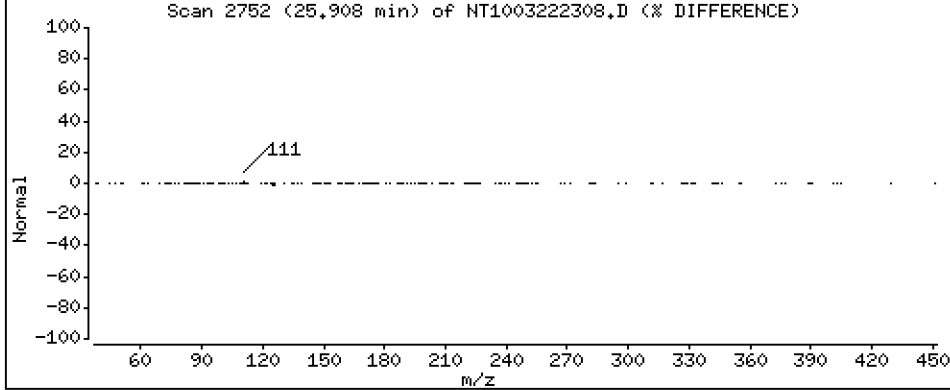
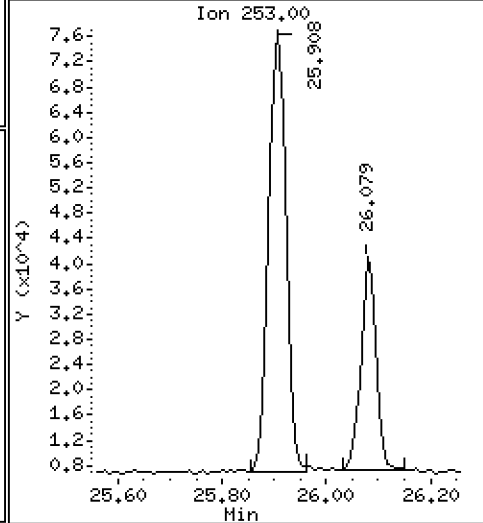
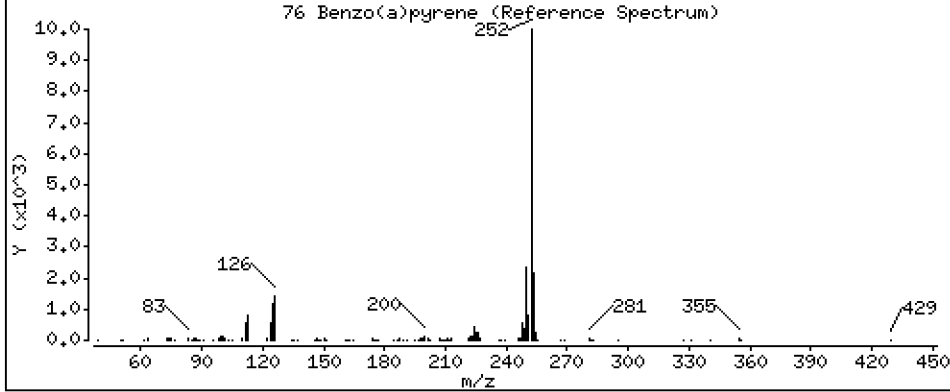
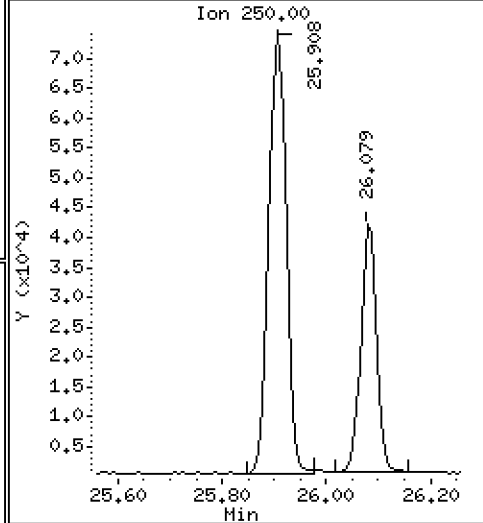
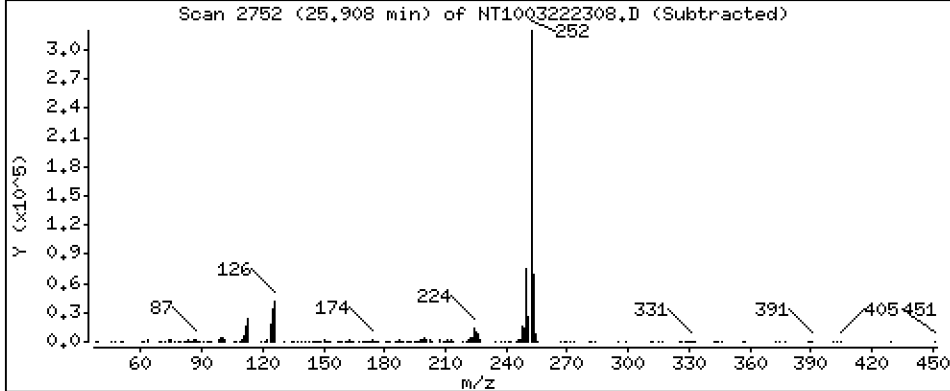
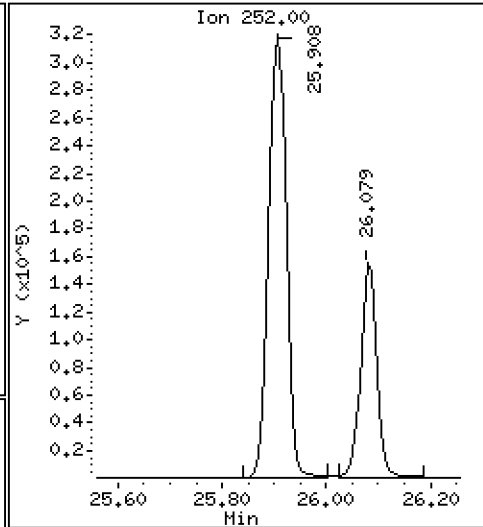
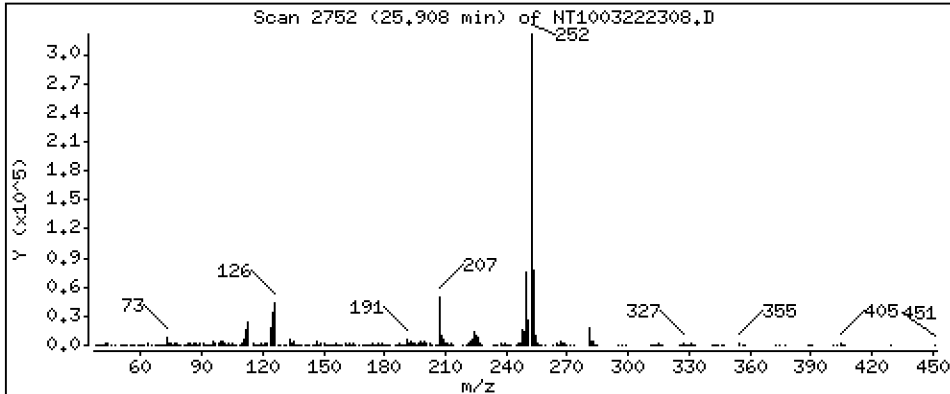
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 4,550 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

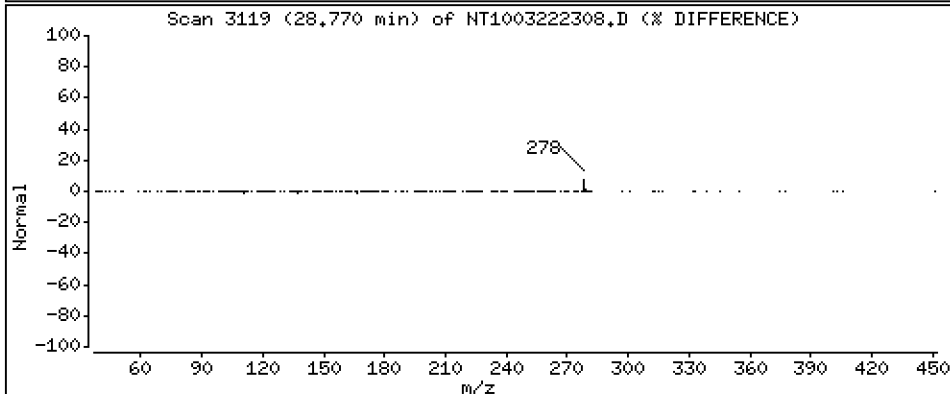
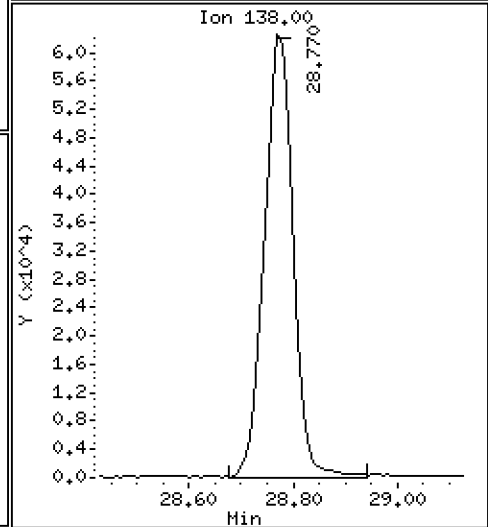
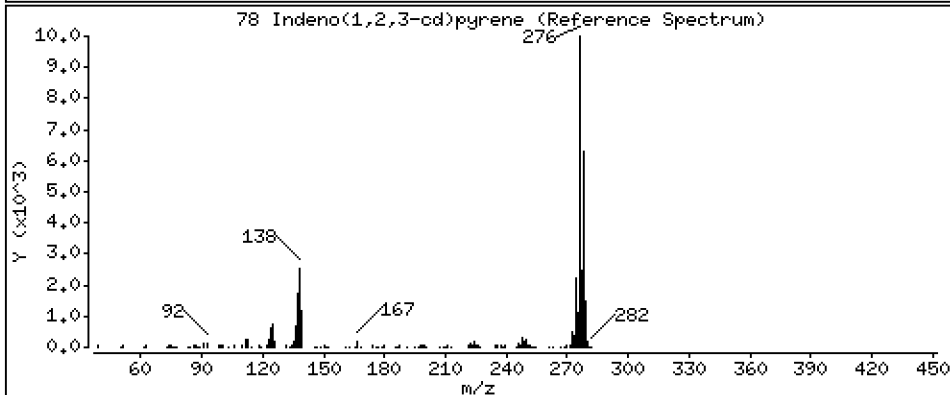
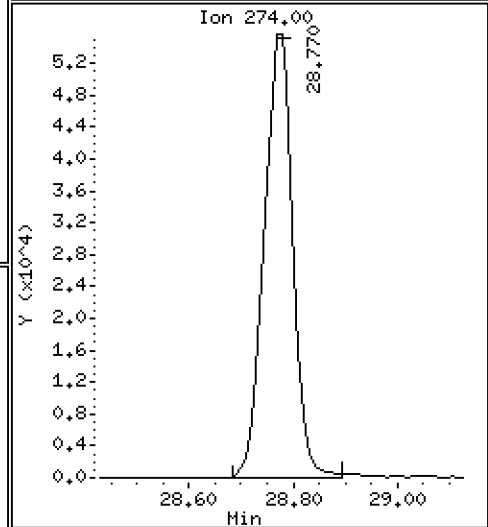
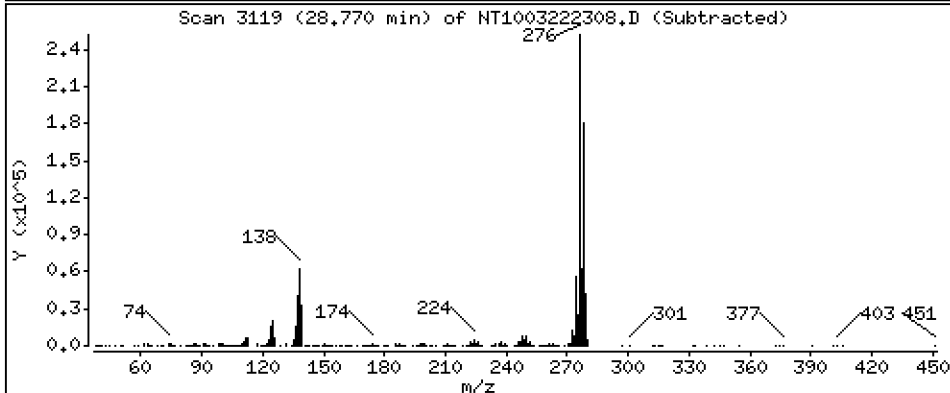
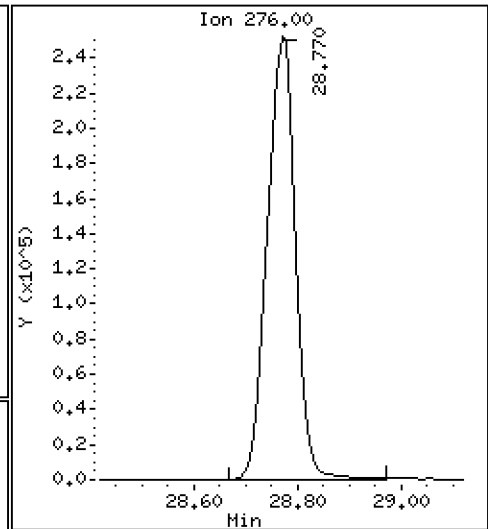
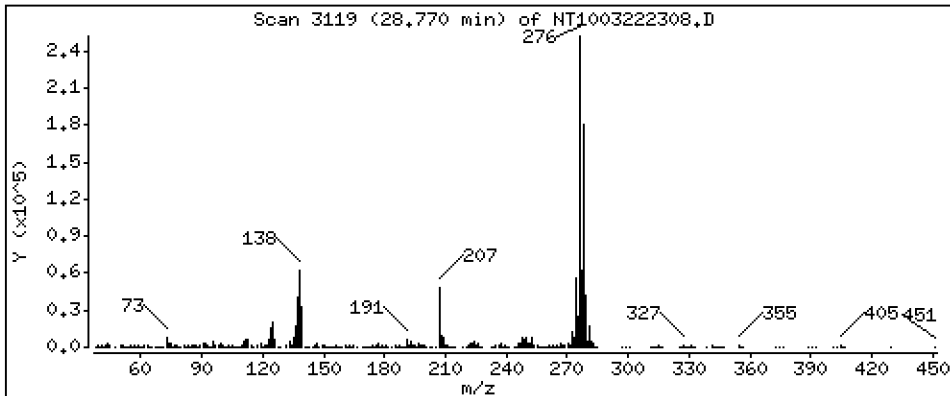
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 4,608 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

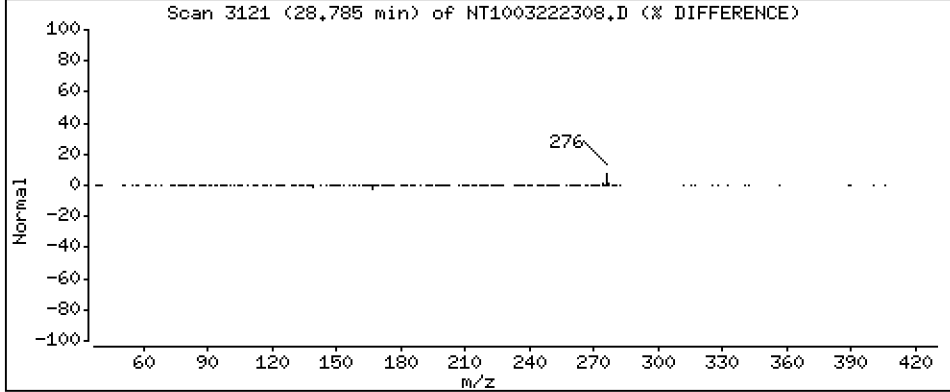
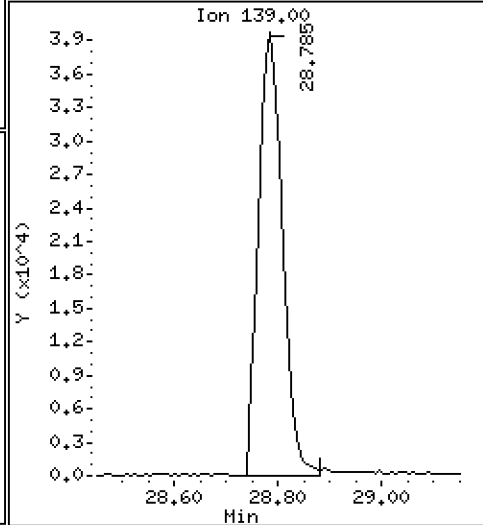
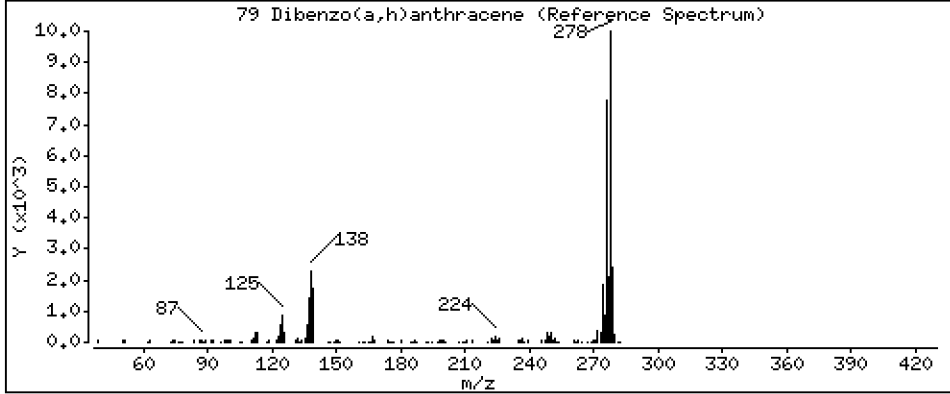
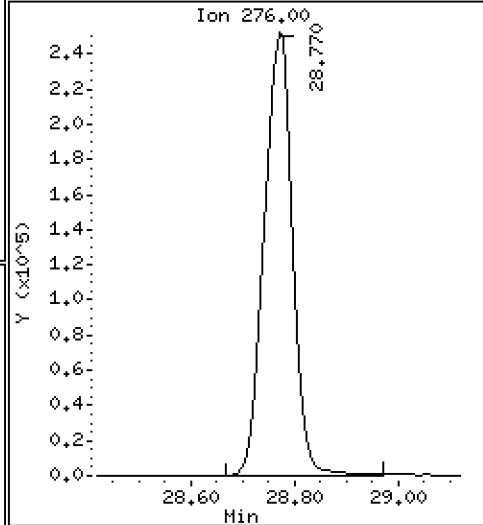
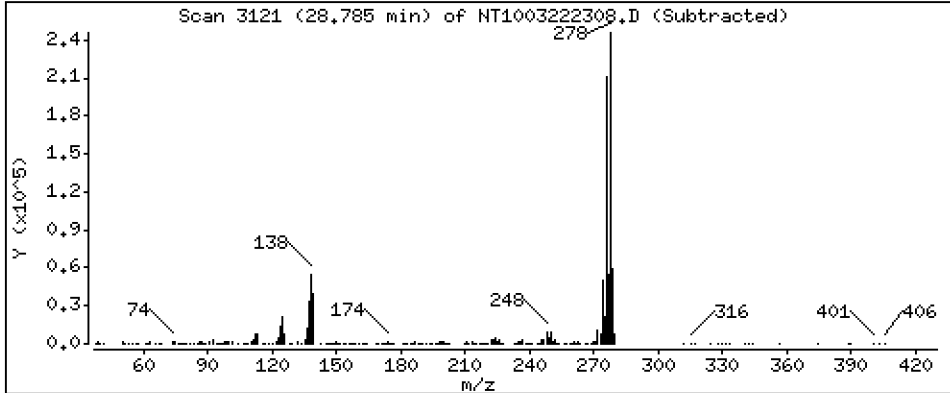
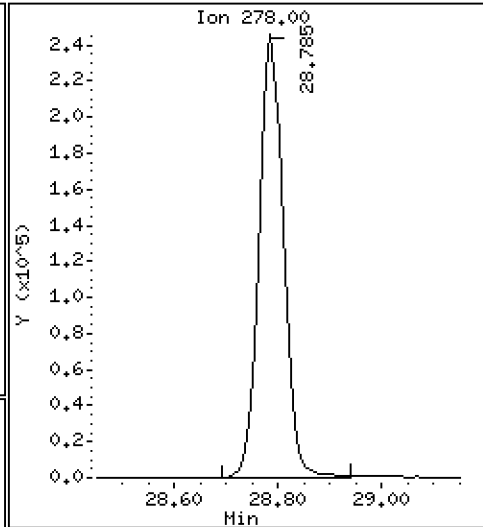
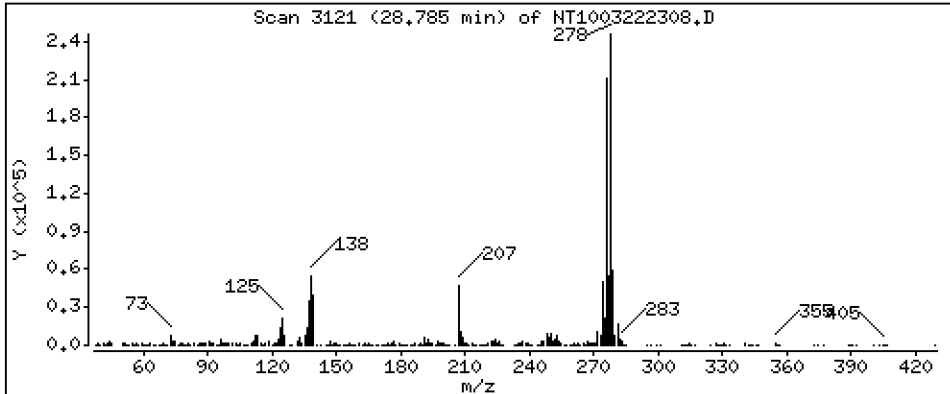
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 4,674 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

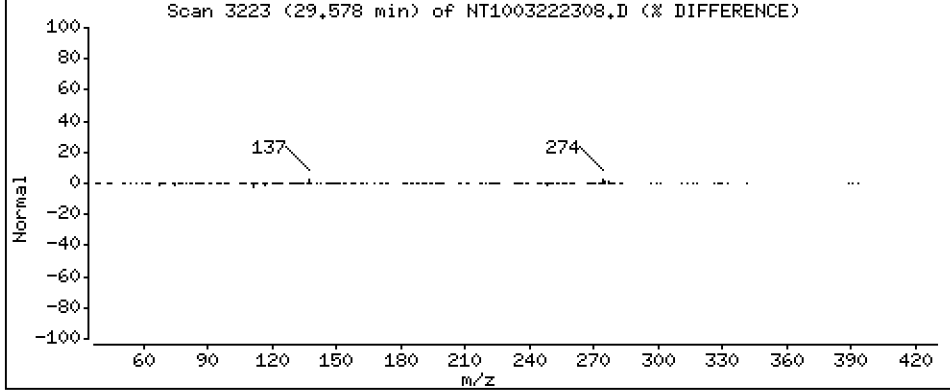
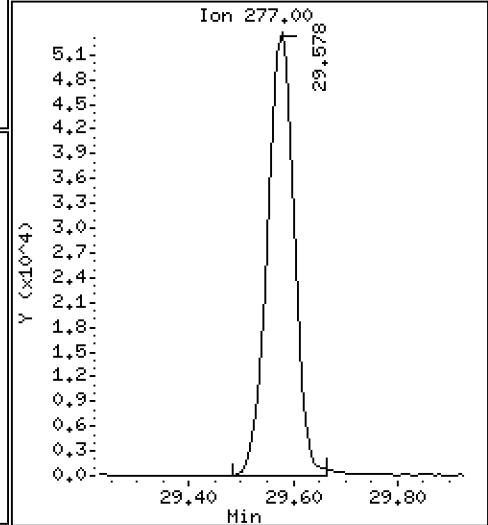
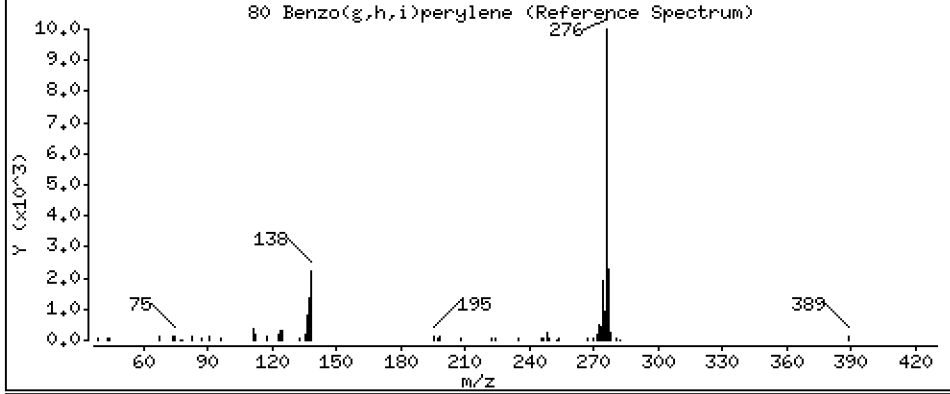
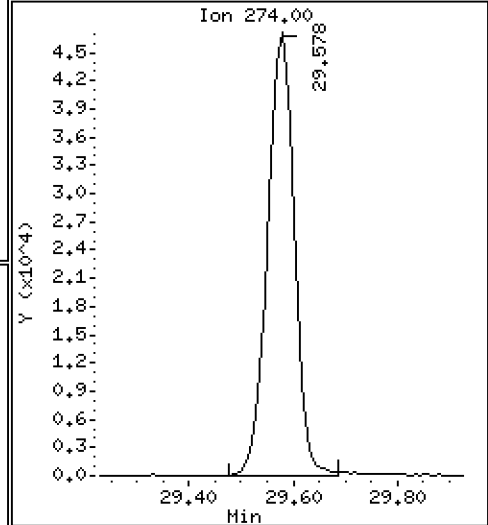
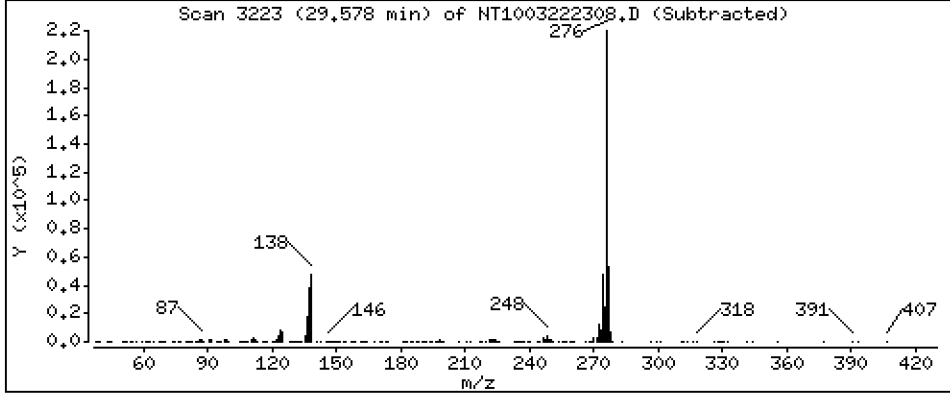
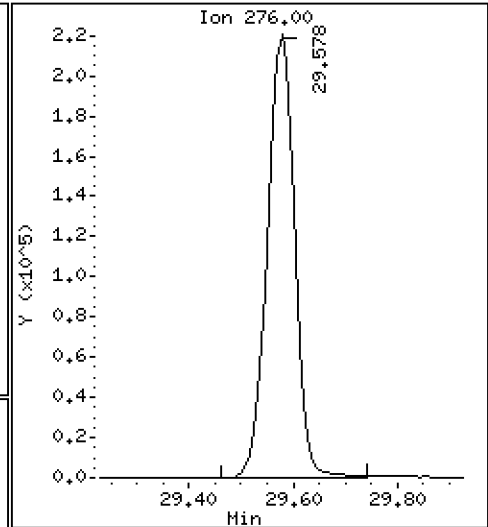
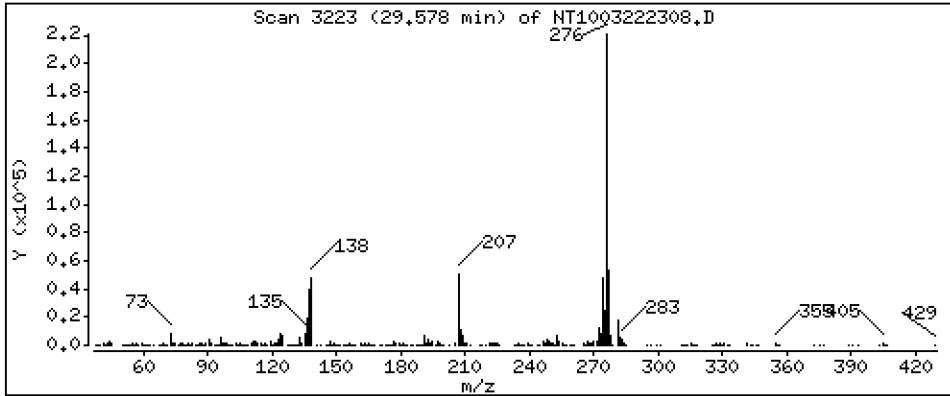
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 4,473 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

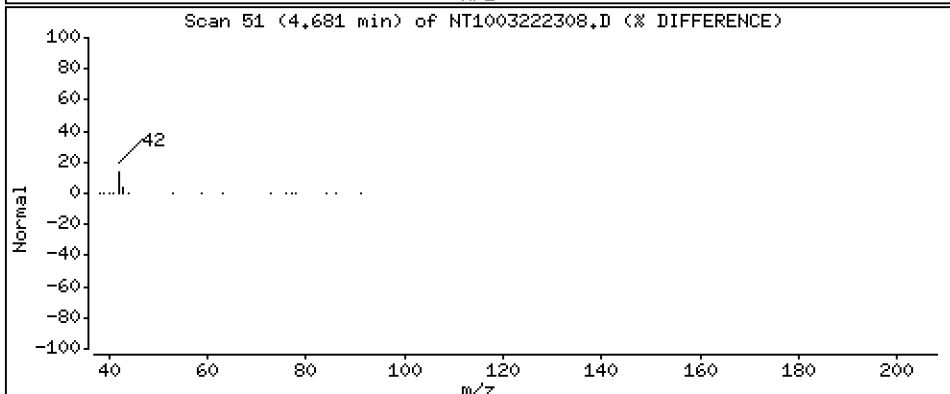
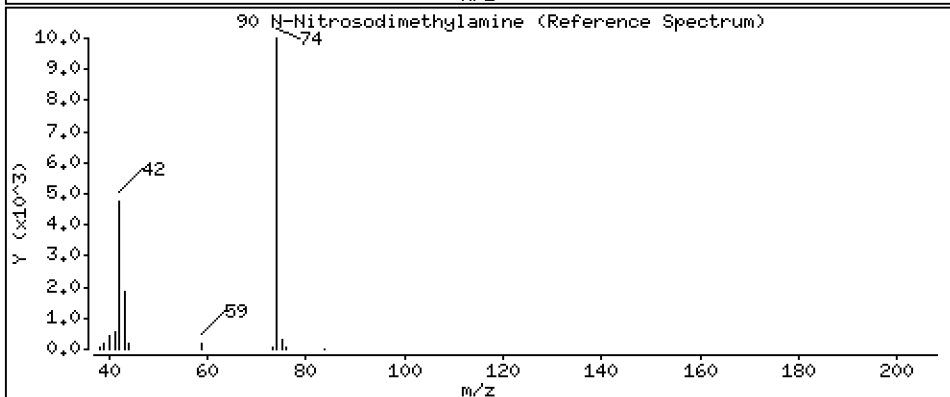
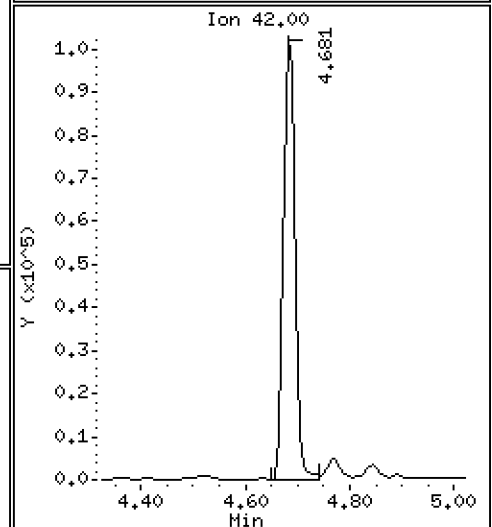
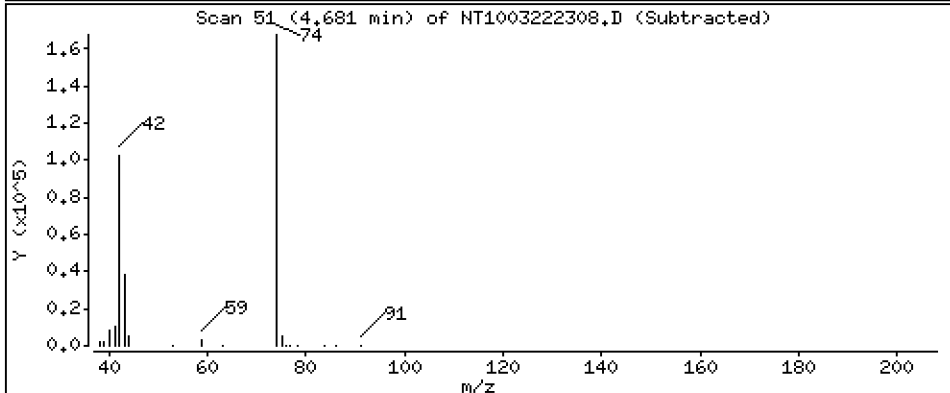
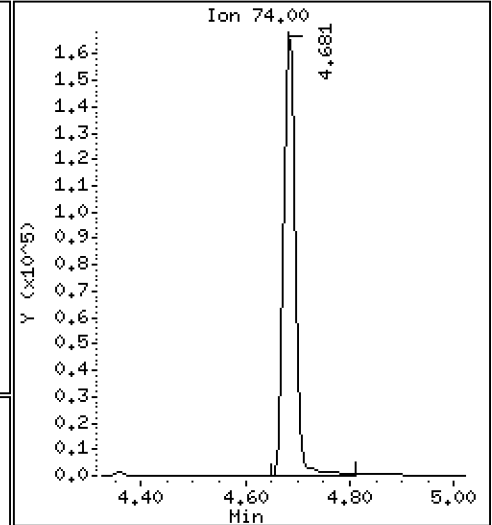
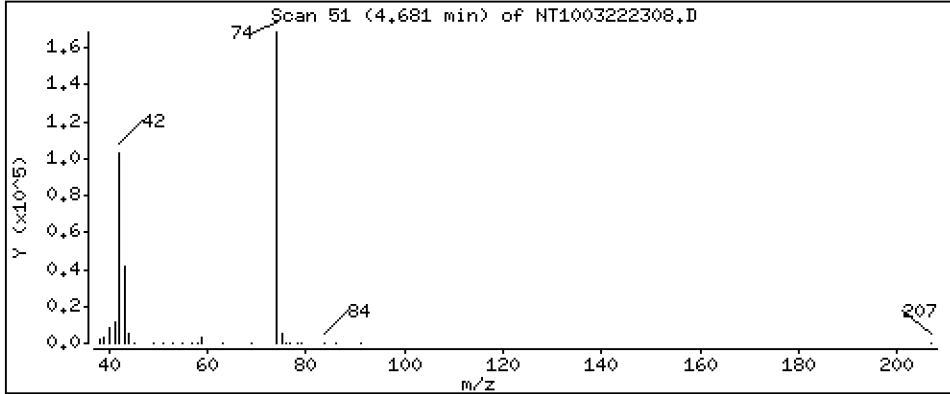
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

90 N-Nitrosodimethylamine

Concentration: 8,396 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

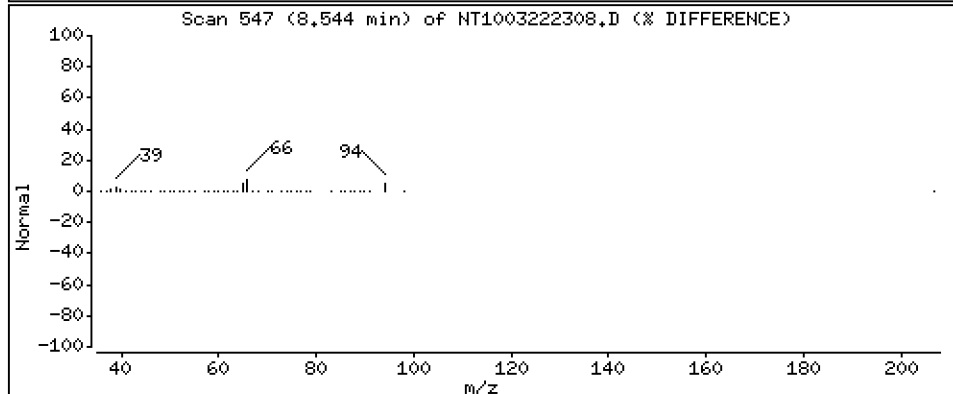
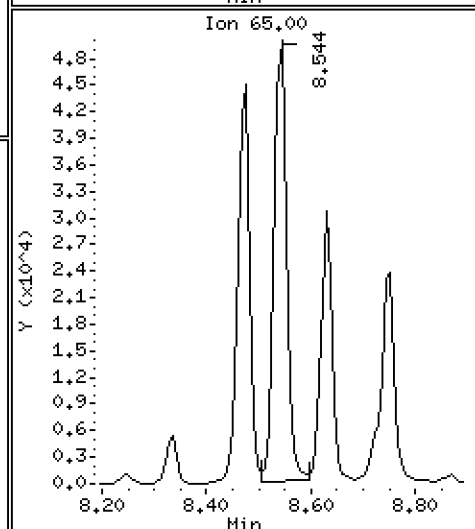
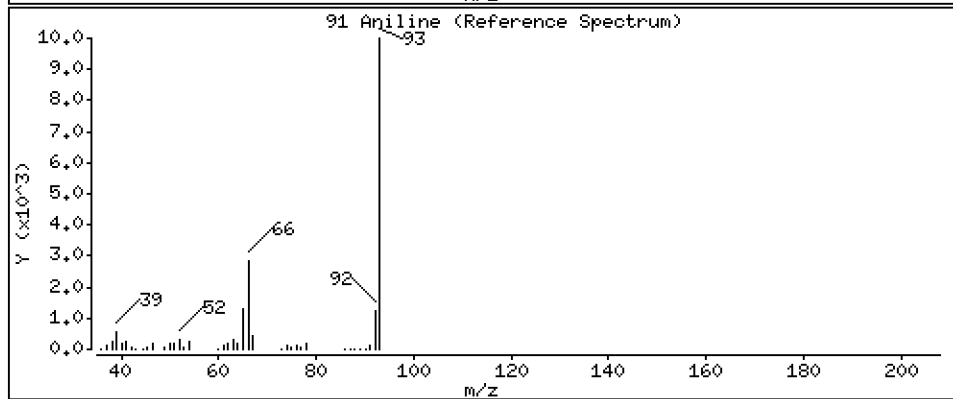
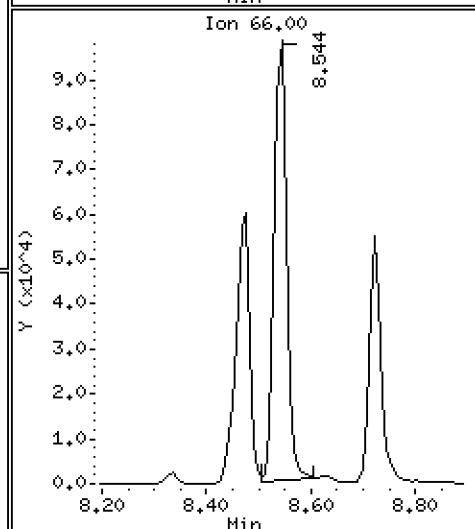
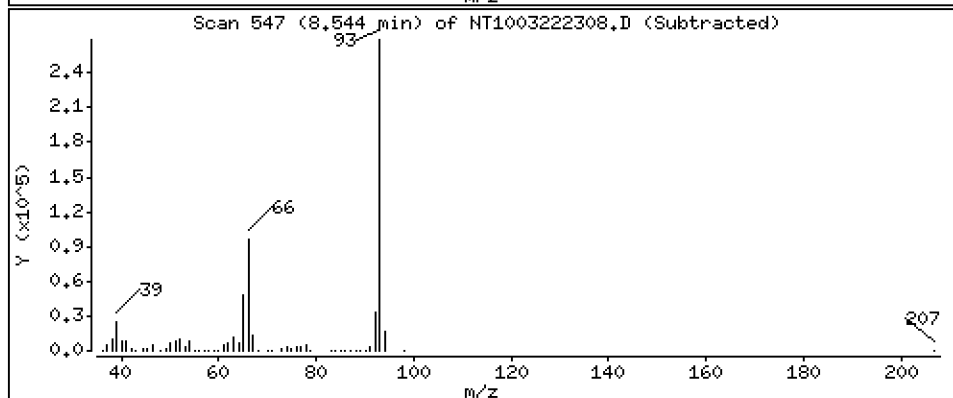
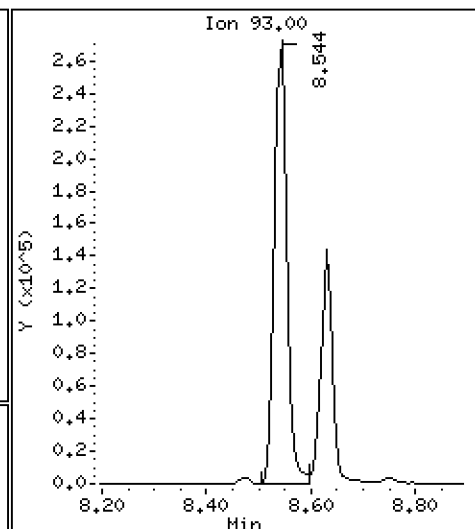
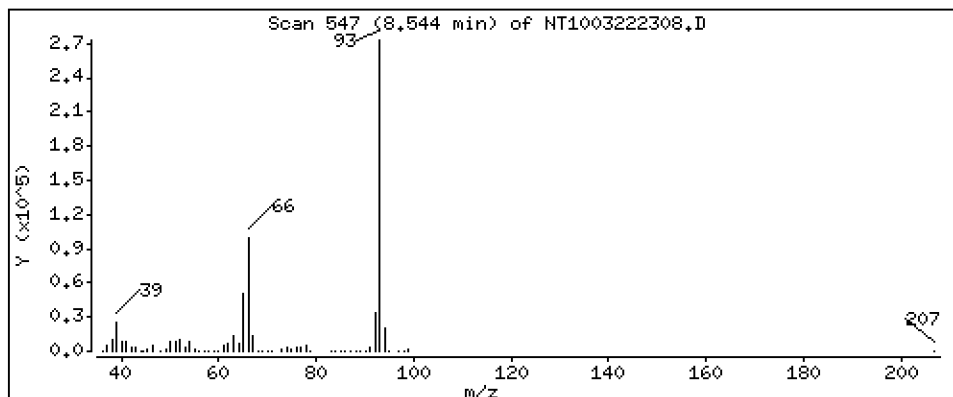
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

91 Aniline

Concentration: 6,620 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

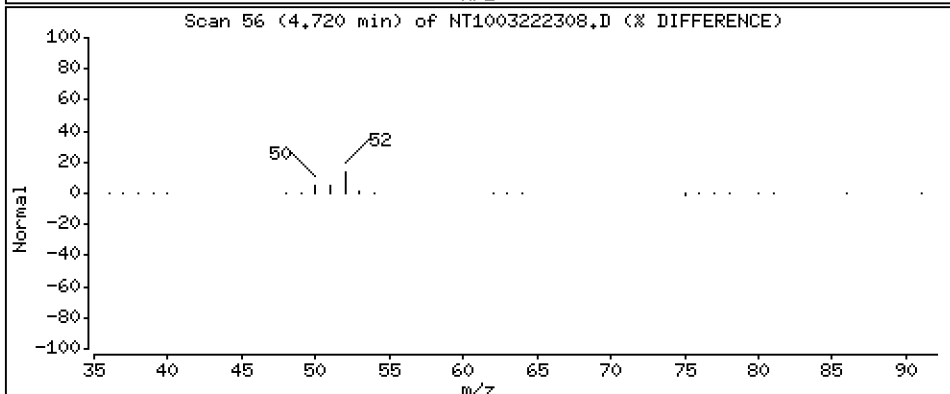
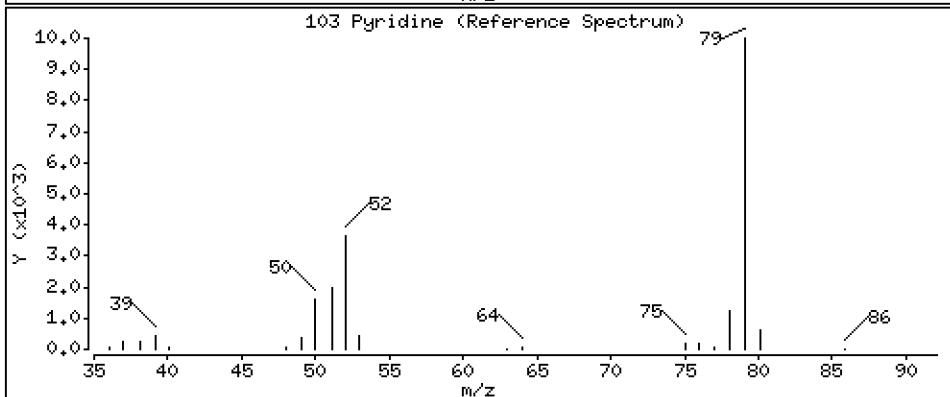
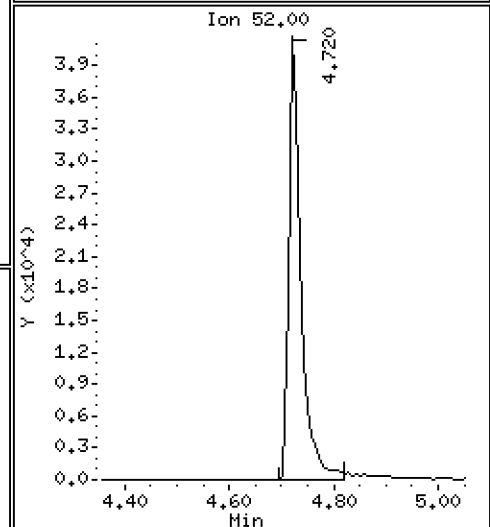
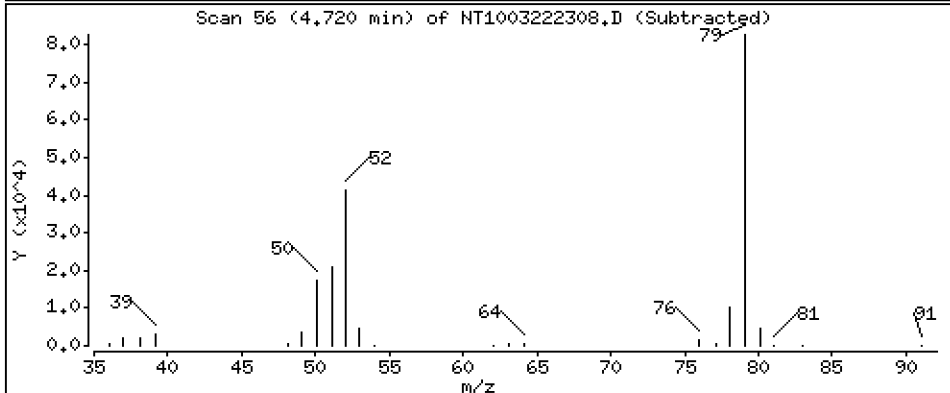
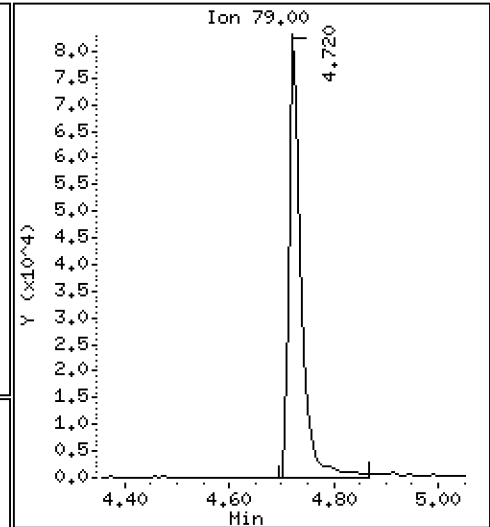
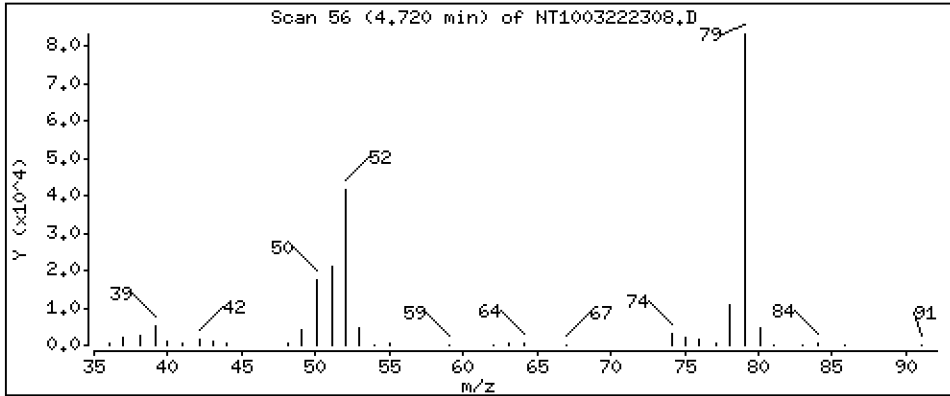
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

103 Pyridine

Concentration: 2,960 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

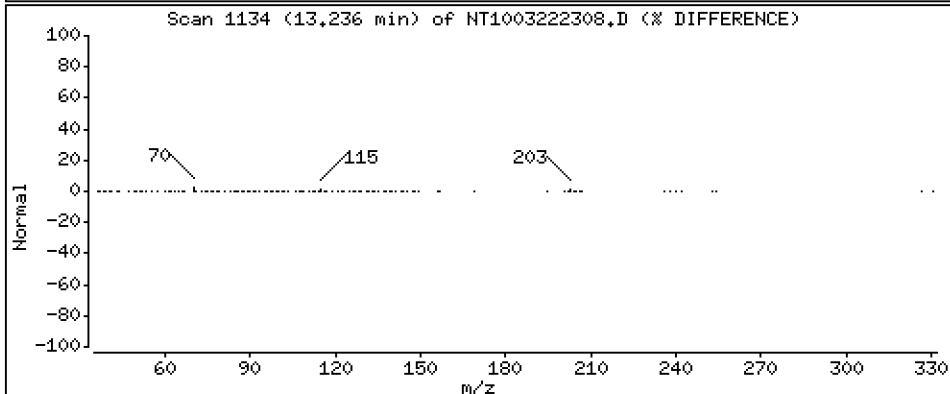
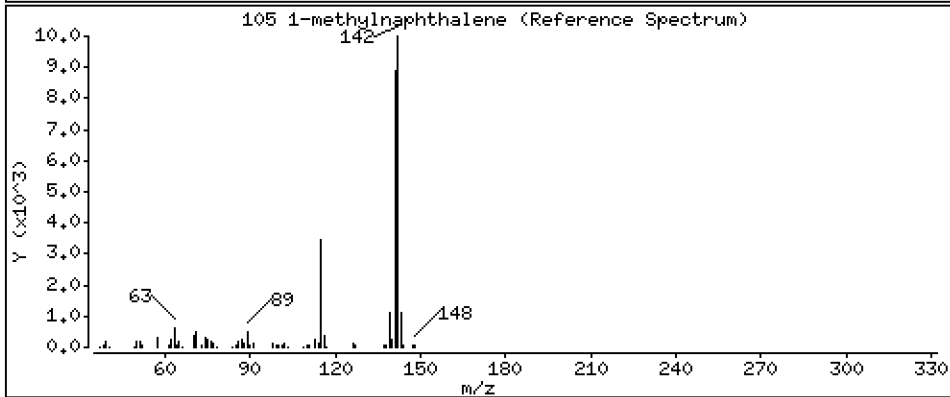
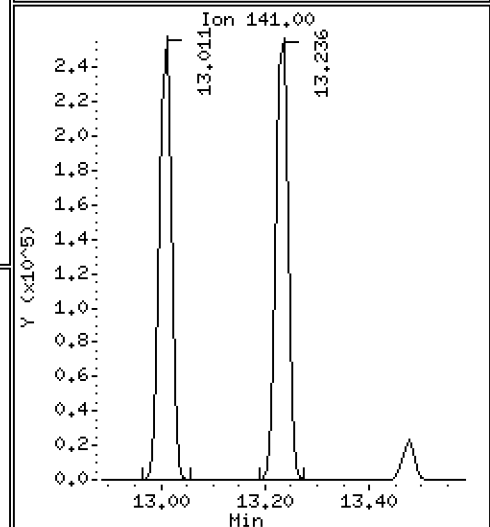
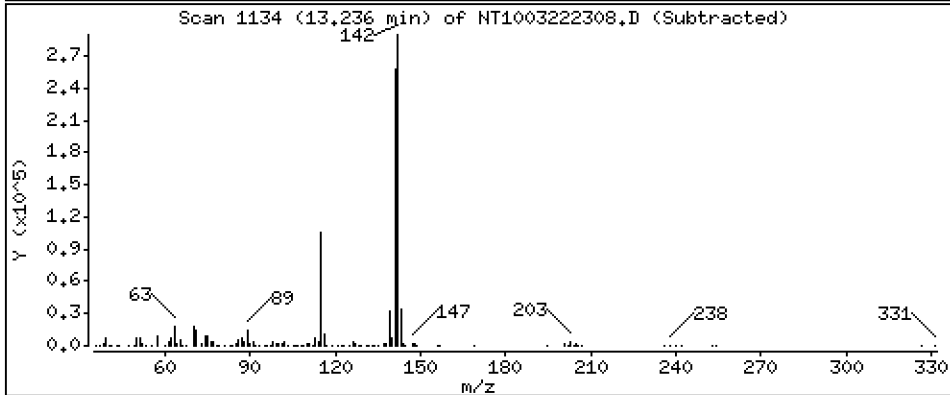
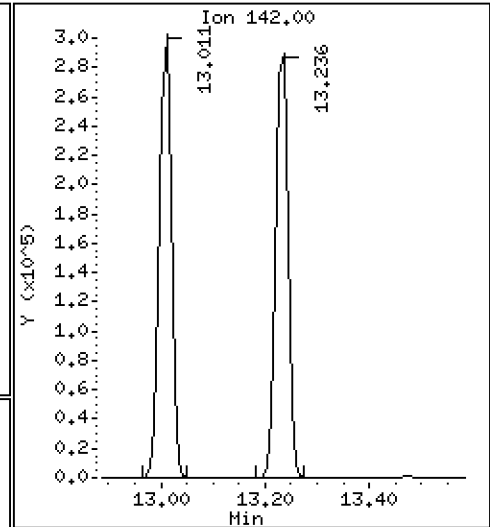
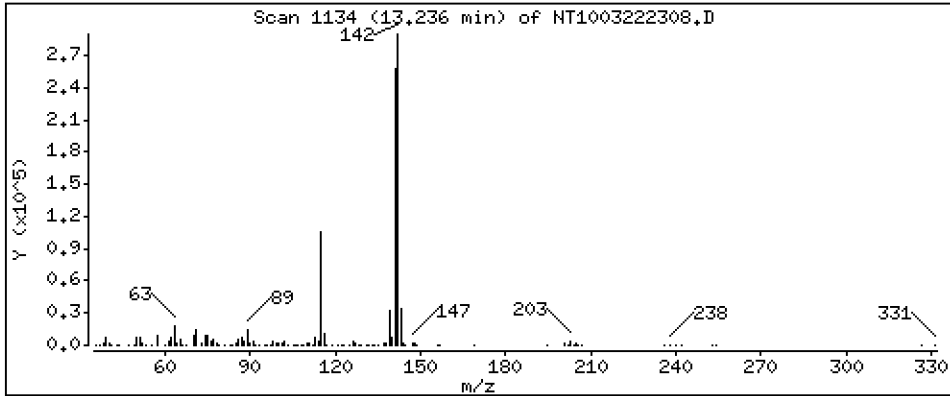
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 4,635 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

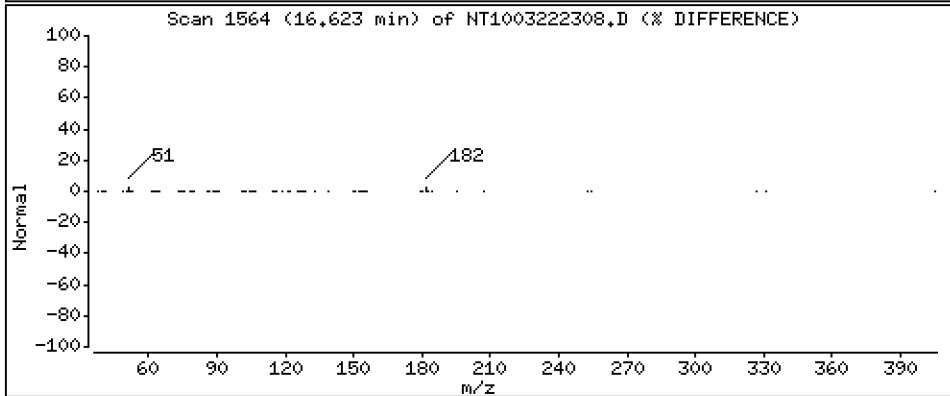
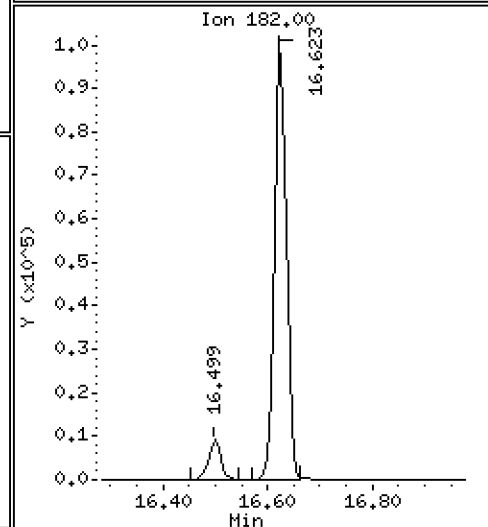
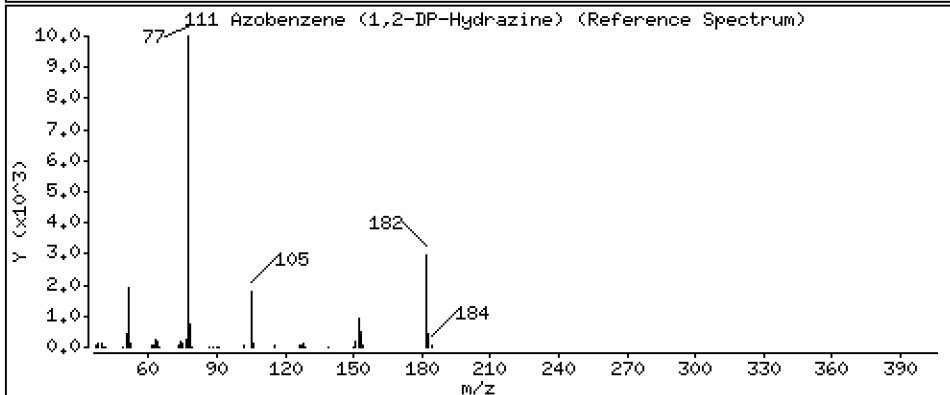
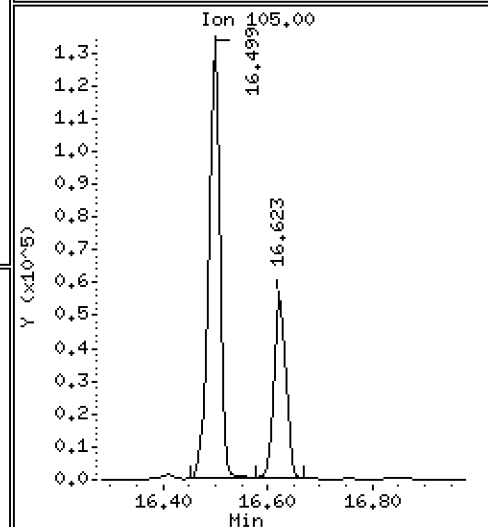
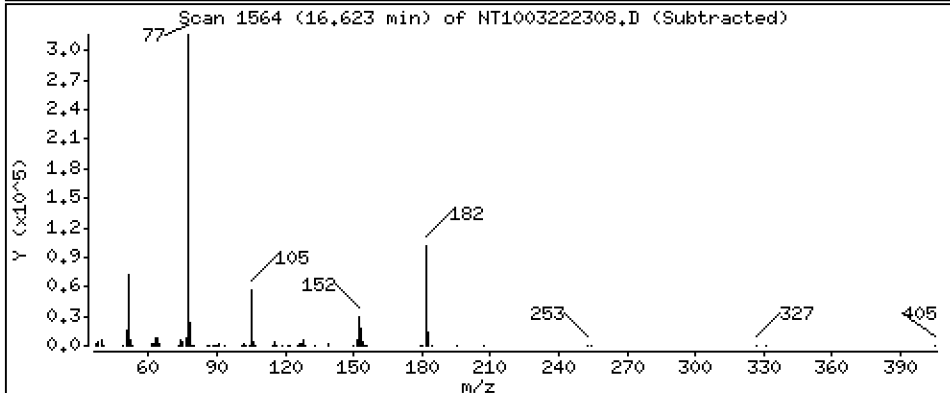
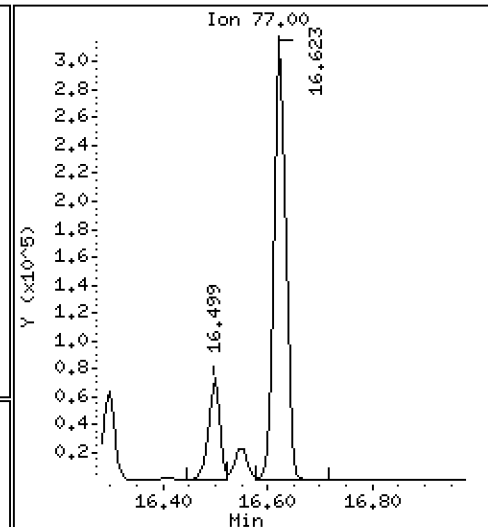
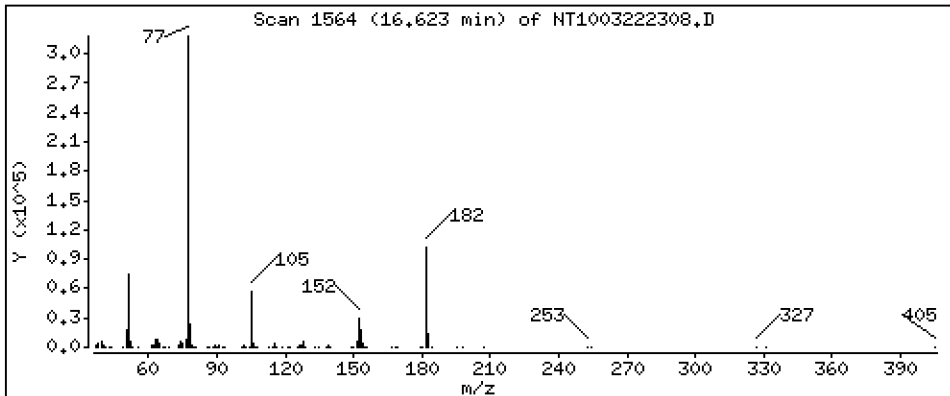
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 4,295 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

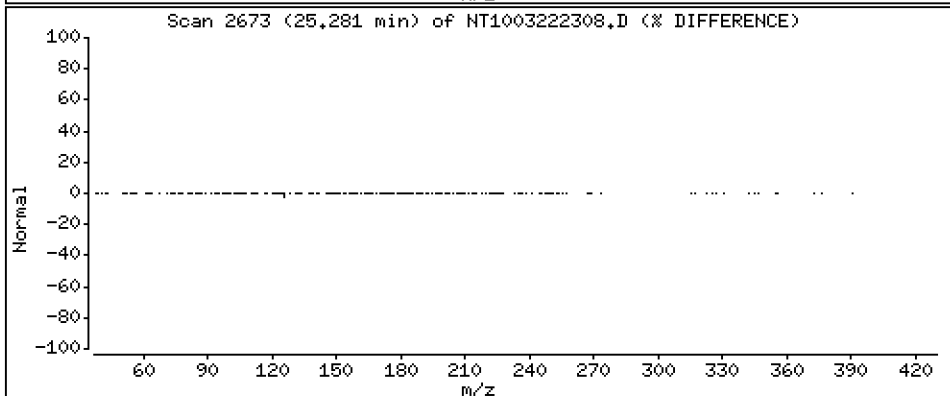
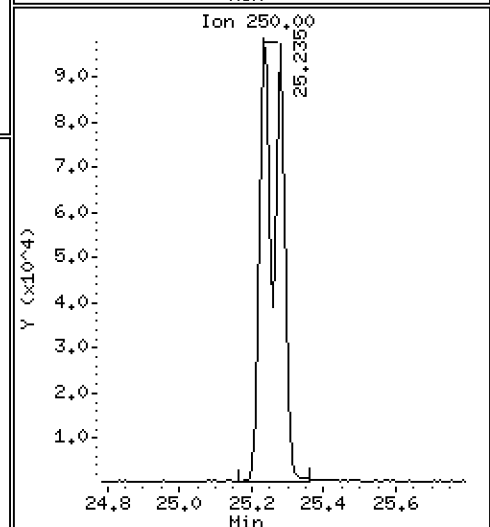
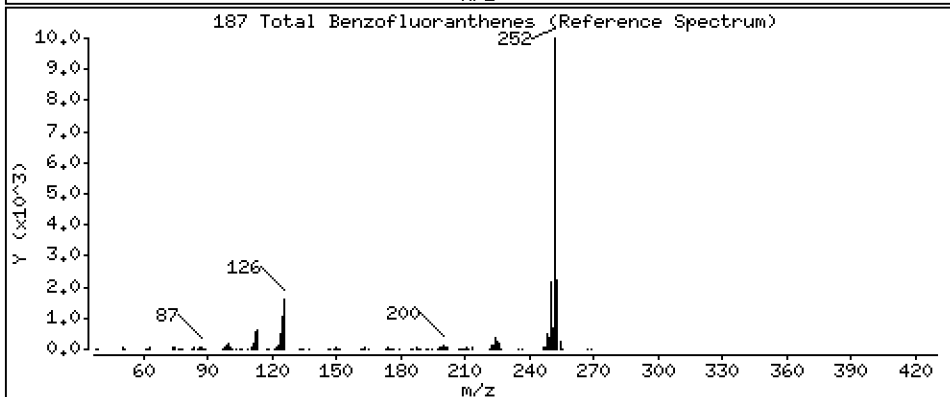
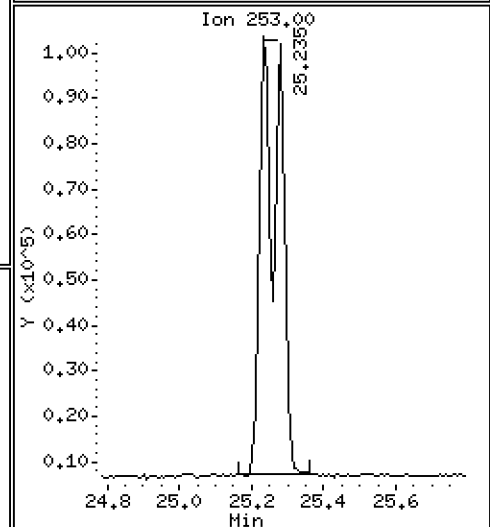
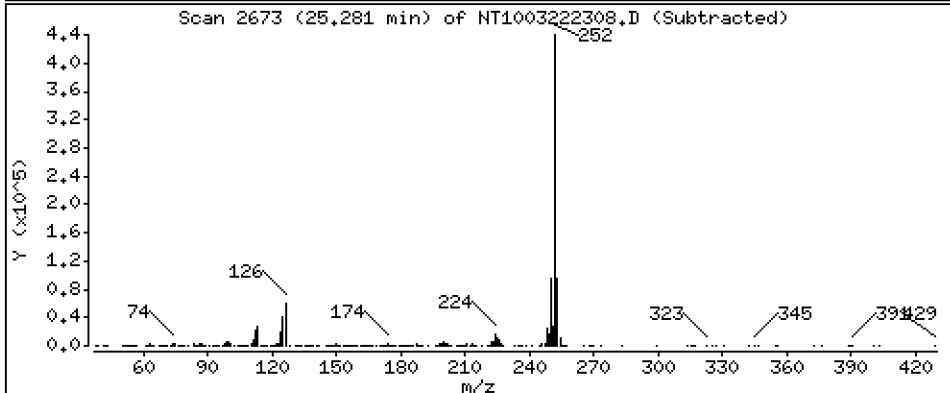
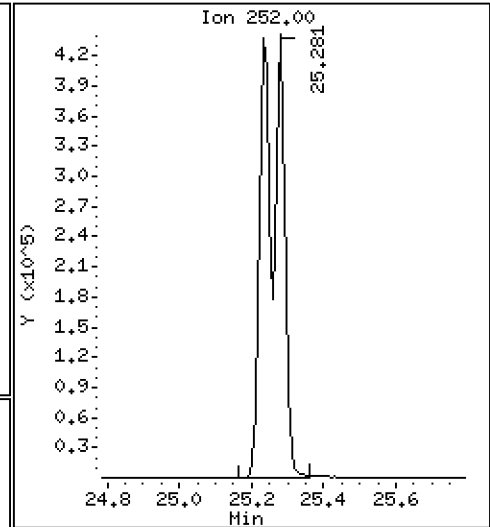
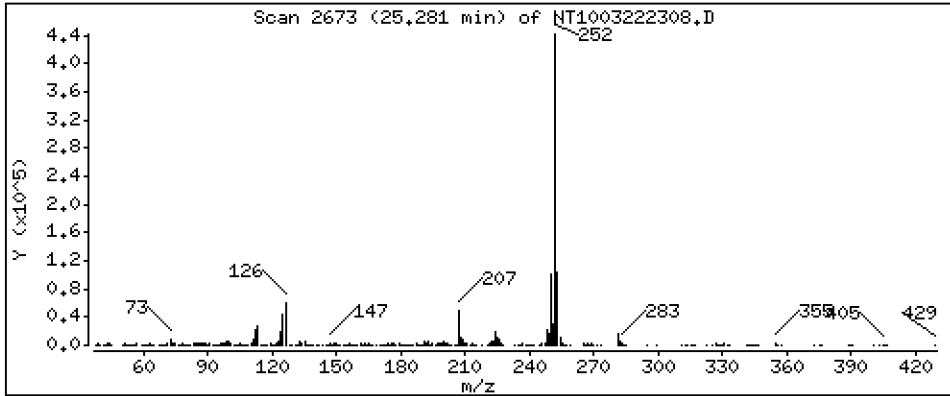
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 9,637 ug/mL



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

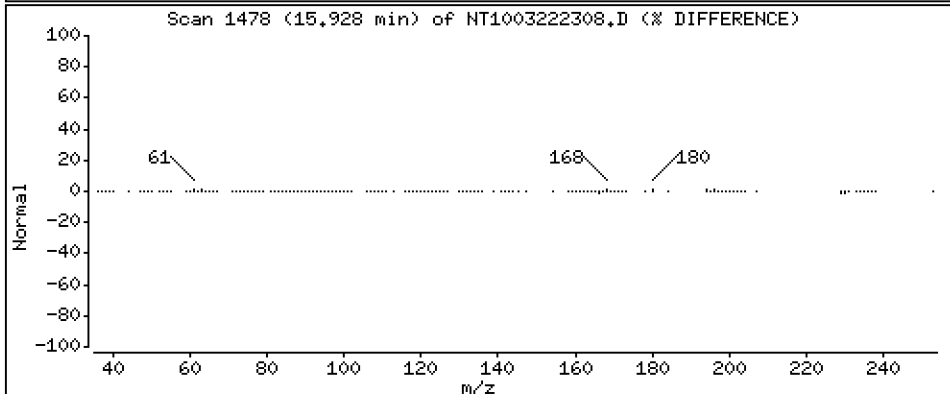
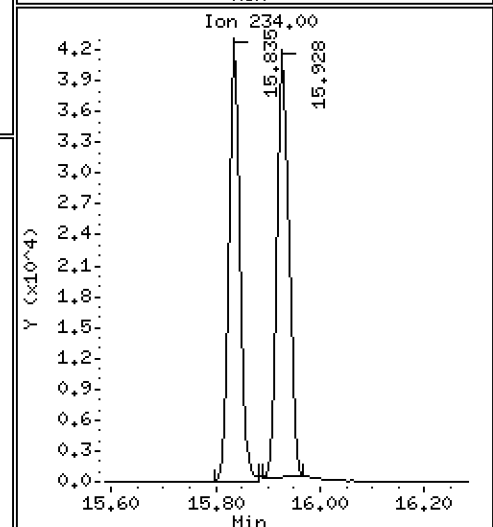
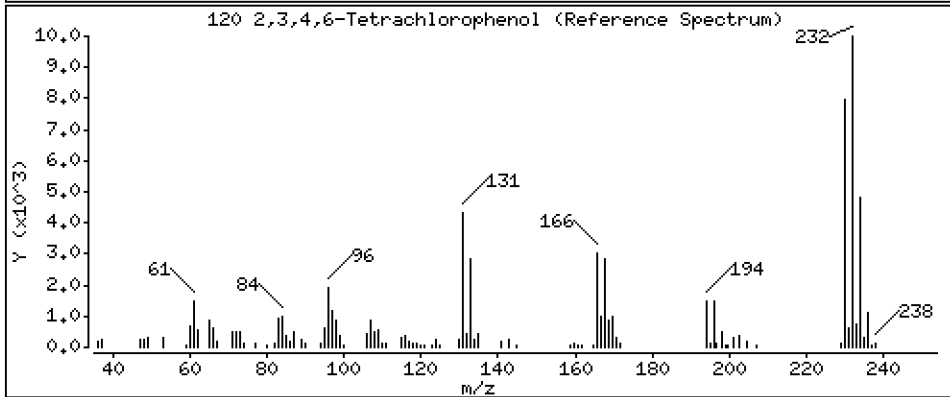
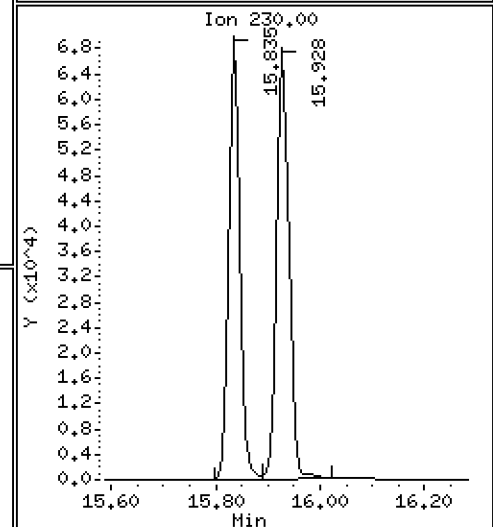
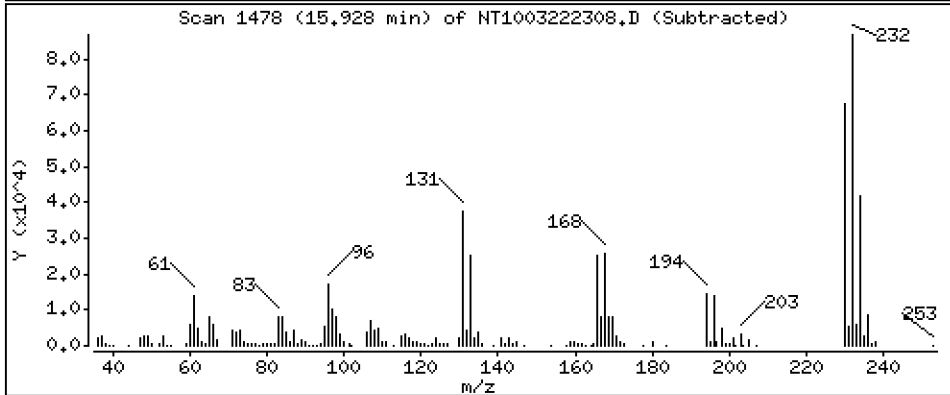
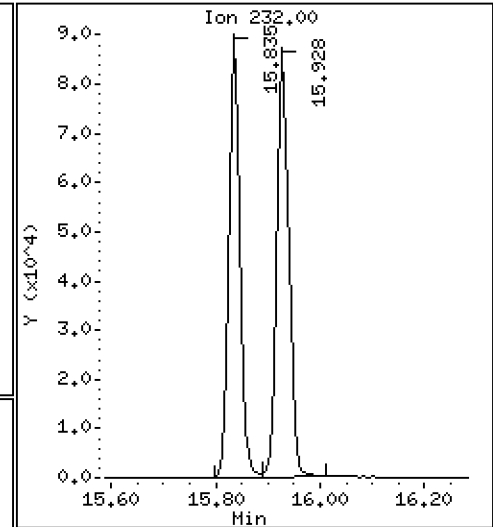
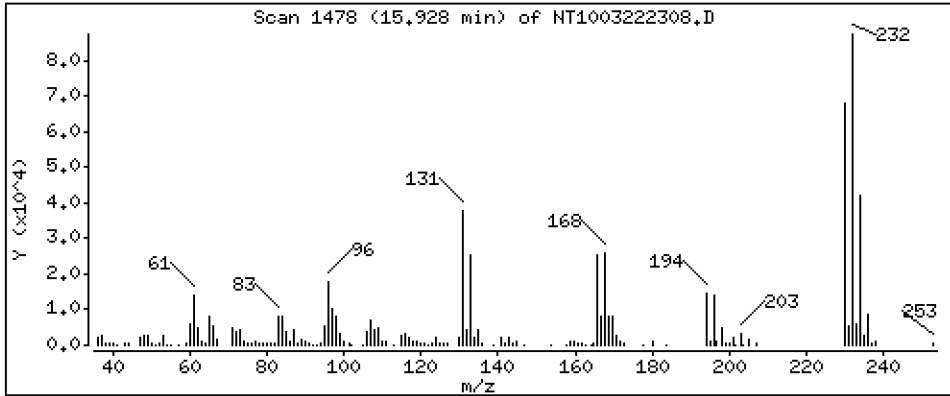
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

120 2,3,4,6-Tetrachlorophenol

Concentration: 4,741 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

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

Inst ID: nt10.i

Quant Type: ISTD
 Cal File: NT10031508.D

Compound Sublist: ICAL.sub

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

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

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

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

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

Test Mode:
 Use Last Continuing Calibrator.

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

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

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

REVIEW SUMMARY FOR FILE - NT1003222308.D

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

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

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

NONE

RRT check based on Ccal File: NT1003222302.D

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

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



STANDARD REFERENCE MATERIAL RECOVERY
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Matrix: Solid

Laboratory ID: BLA0557-SRM1

Batch: BLA0557

Initial/Final: 1 g / 1 mL

Preparation: EPA 3546 (Microwave)

Analyzed: 03/01/2023 18:28

Standard ID: K003477

Expires: 01/31/2024

Standard Lot#: CRM 143 (LRAC8918)

Description: CRM 143 BNAs - Sandy Loam

| ANALYTE | TRUE (ug/kg wet) | FOUND (ug/kg wet) | MDL | MRL | Q | SRM % REC. | QC LIMITS REC. |
|----------------------------|---------------------|----------------------|------|-----|---|------------------|----------------------|
| Phenol | 2660.0 | 2600 | 43.9 | 200 | B | 97.6 | 26 - 174 |
| 4-Methylphenol | 6617.0 | 5880 | 73.9 | 200 | | 88.8 | 40 - 160 |
| Naphthalene | 4458.0 | 2410 | 42.4 | 200 | | 54.2 | 25 - 175 |
| Acenaphthylene | 1948.0 | 1590 | 62.4 | 200 | | 81.8 | 37 - 167 |
| Dimethylphthalate | 4537.0 | 5360 | 43.9 | 200 | | 118 | 41 - 159 |
| Acenaphthene | 5489.0 | 4820 | 52.2 | 200 | | 87.8 | 41 - 159 |
| Dibenzofuran | 6130.0 | 5600 | 141 | 200 | | 91.4 | 45 - 155 |
| Fluorene | 3724.0 | 3530 | 146 | 200 | | 94.8 | 44 - 156 |
| Phenanthrene | 5052.0 | 4720 | 87.2 | 200 | | 93.4 | 46 - 154 |
| Anthracene | 2866.0 | 2300 | 71.9 | 200 | | 80.4 | 42 - 158 |
| Fluoranthene | 2497.0 | 2650 | 60.9 | 200 | | 106 | 39 - 161 |
| Pyrene | 2964.0 | 3160 | 56.8 | 200 | | 107 | 38 - 162 |
| Butylbenzylphthalate | 3511.0 | 4190 | 94.1 | 200 | | 119 | 36 - 164 |
| Benzo(a)anthracene | 5751.0 | 5920 | 59.6 | 200 | | 103 | 49 - 151 |
| Chrysene | 1477.0 | 1420 | 60.6 | 200 | | 96.4 | 45 - 155 |
| bis(2-Ethylhexyl)phthalate | 2905.0 | 2620 | 54.6 | 500 | | 90.1 | 26 - 174 |
| Benzofluoranthenes, Total | 6534.0 | 5450 | 100 | 400 | | 83.4 | 40 - 160 |
| Benzo(a)pyrene | 5902.0 | 4740 | 42.3 | 200 | | 80.3 | 43 - 157 |
| Indeno(1,2,3-cd)pyrene | 3914.0 | 2610 | 147 | 200 | Q | 66.7 | 22 - 178 |
| Dibenzo(a,h)anthracene | 3420.0 | 2510 | 172 | 200 | Q | 73.5 | 37 - 163 |
| Benzo(g,h,i)perylene | 1380.0 | 689 | 136 | 200 | Q | 49.9 | 35 - 165 |

* Values outside of QC limits

Data File: \\target\share\chem3\nt14,1\20230228,16\NT1423022829.D

Date: 01-HRR-2023 18:28

Client ID:

Sample Info: BLR0557-SRM1

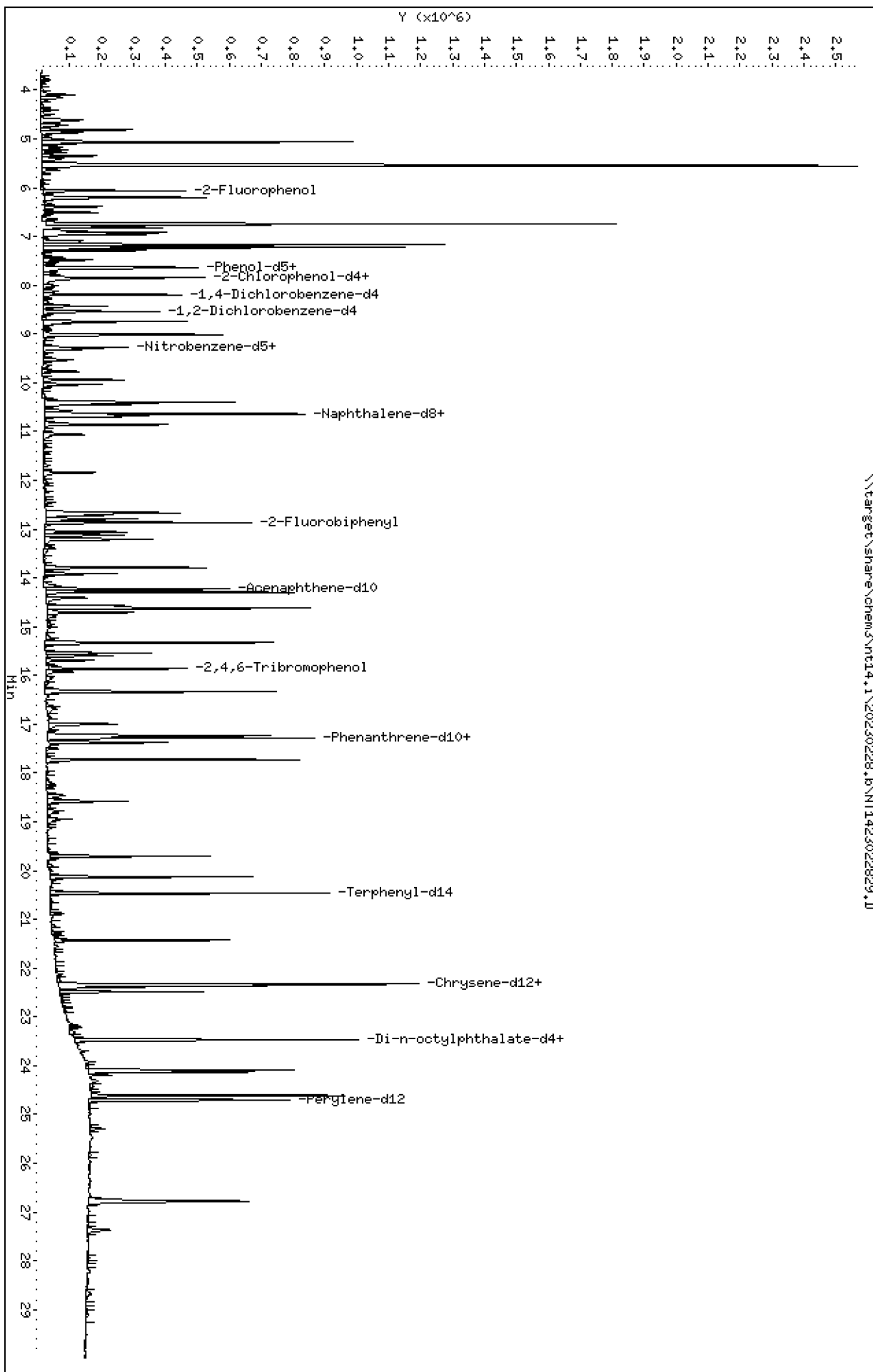
Instrument: nt14,1

Operator: JGR

Column diameter: 0.25

Column phase: ZB-Smsi

\\target\share\chem3\nt14,1\20230228,16\NT1423022829.D



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

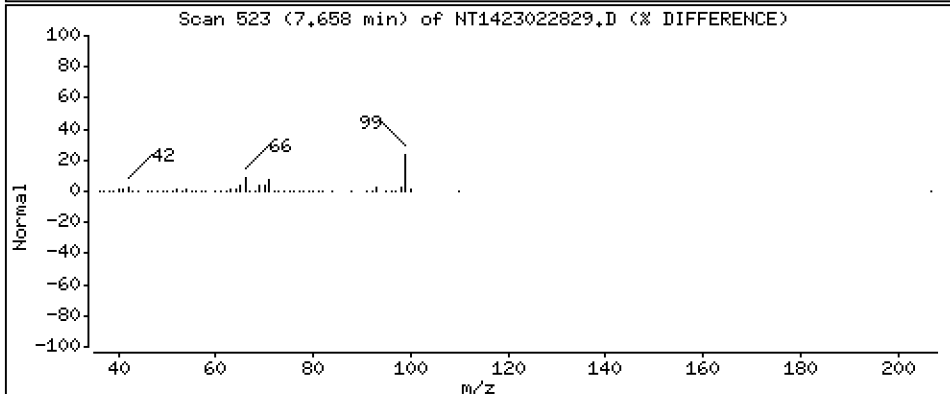
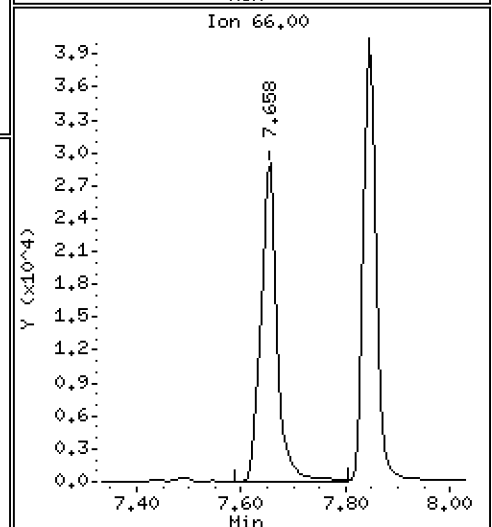
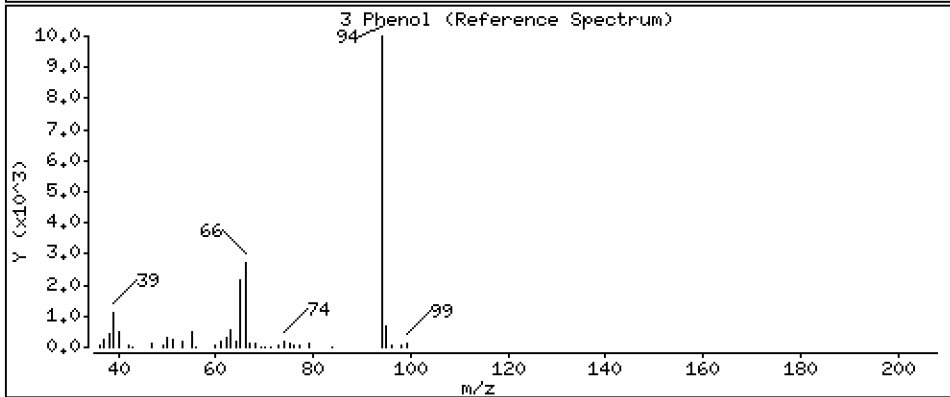
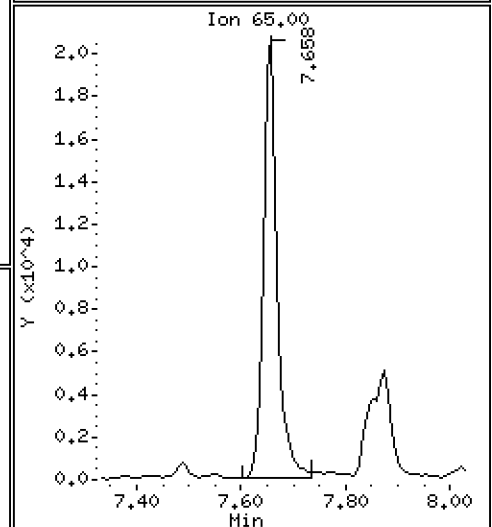
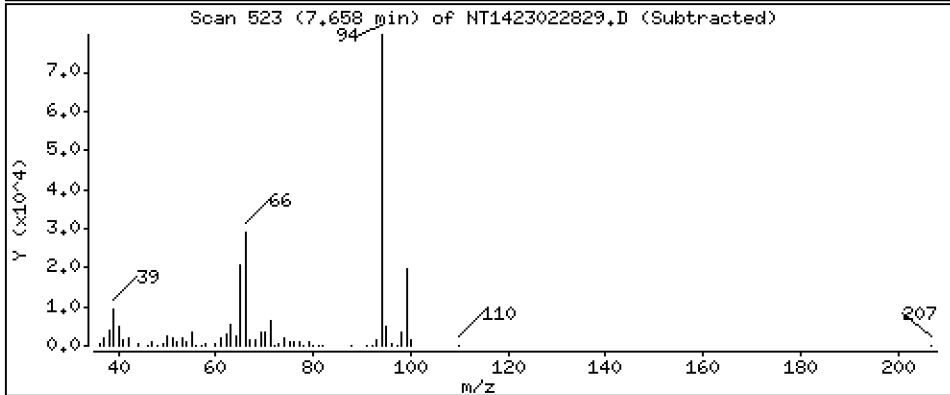
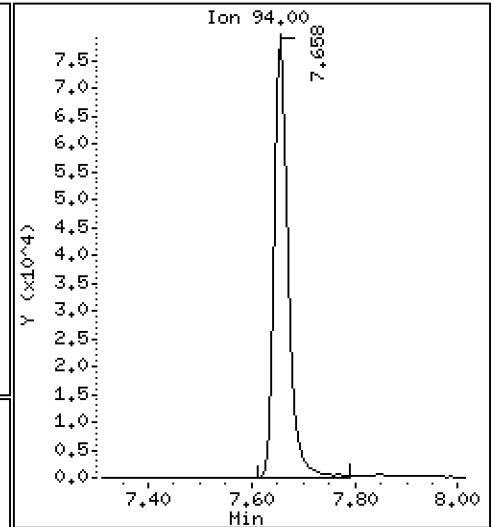
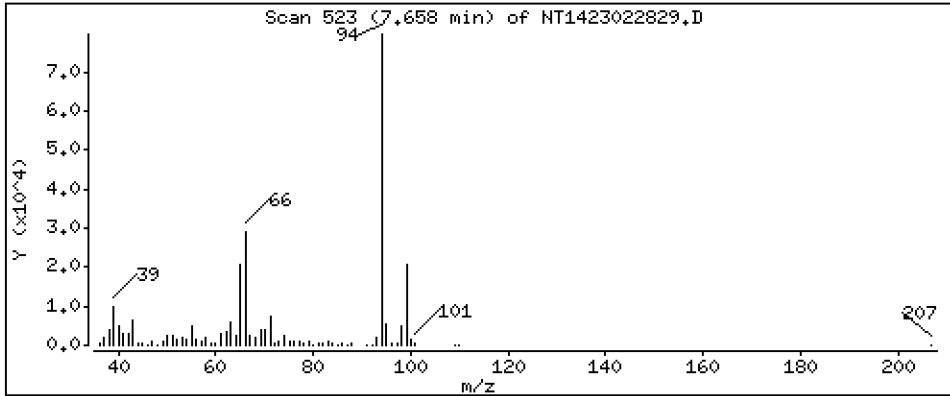
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 2,596 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

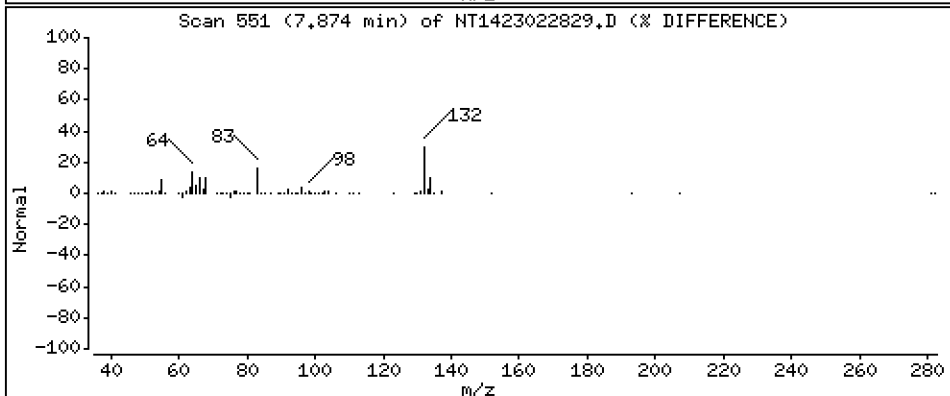
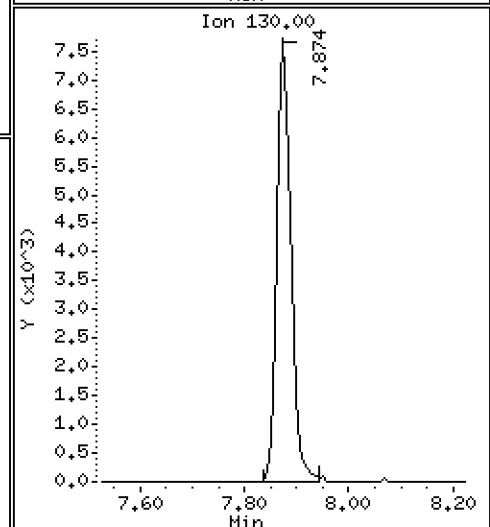
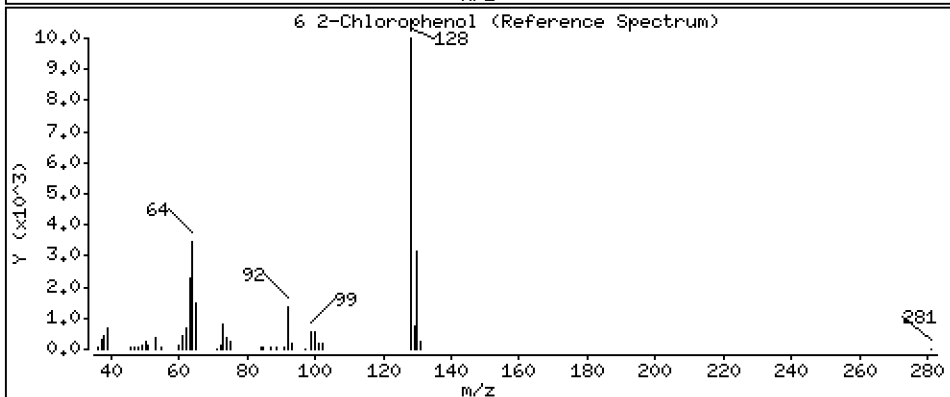
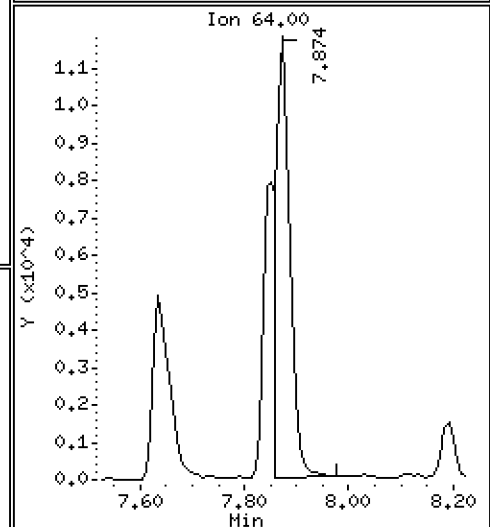
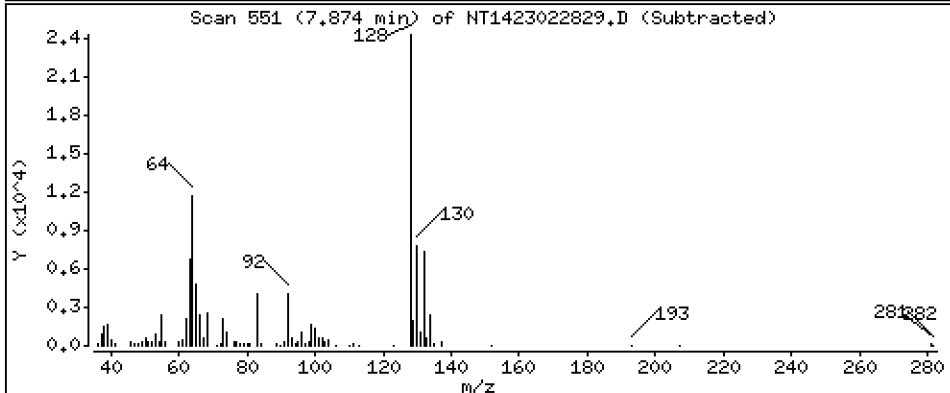
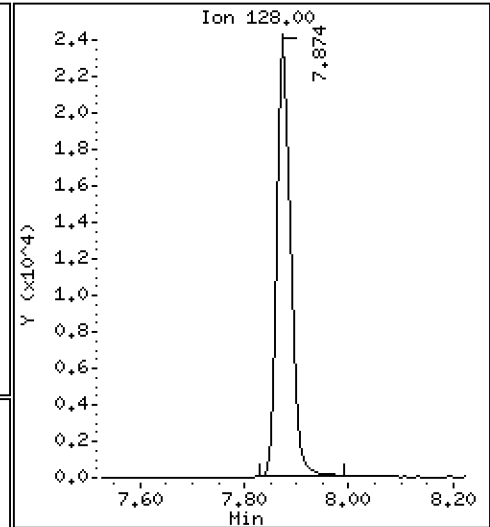
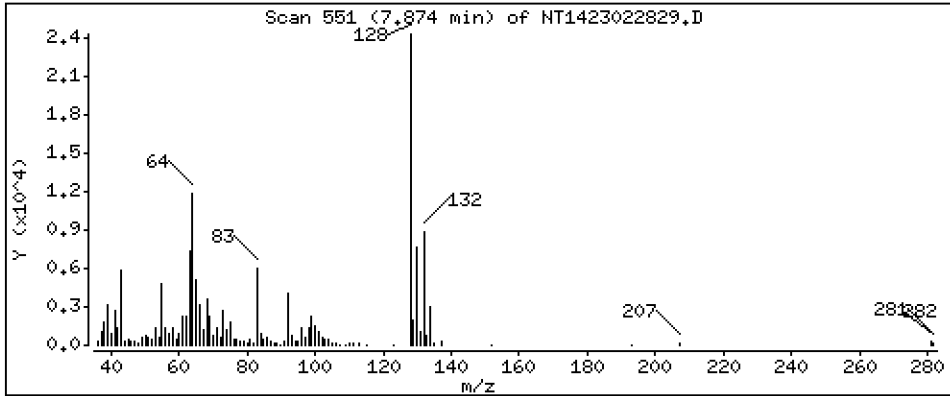
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 1,074 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

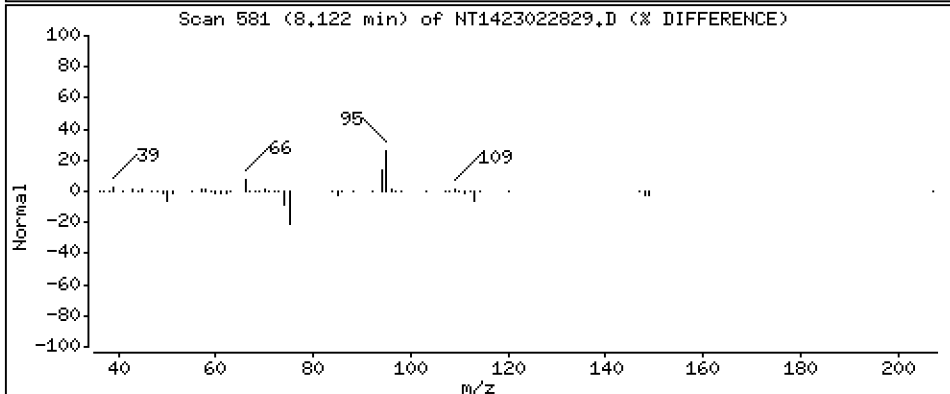
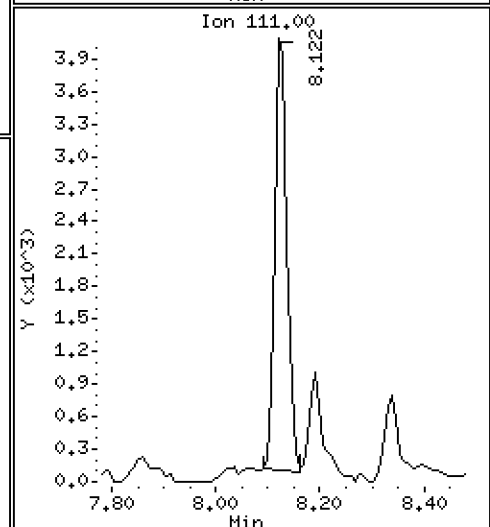
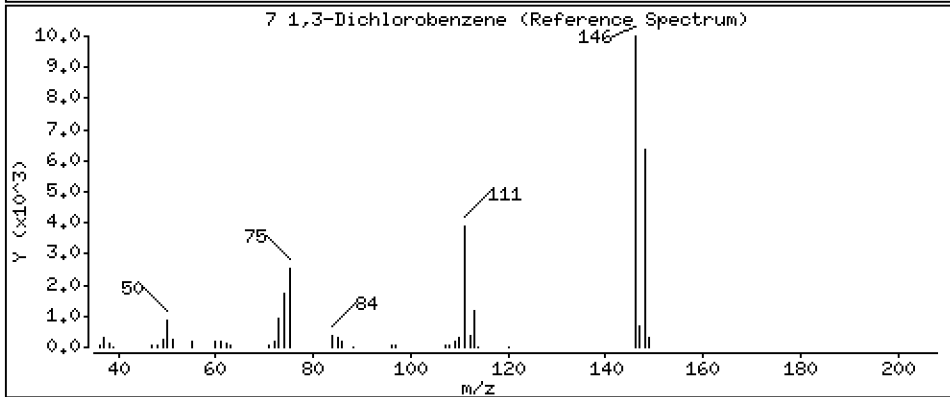
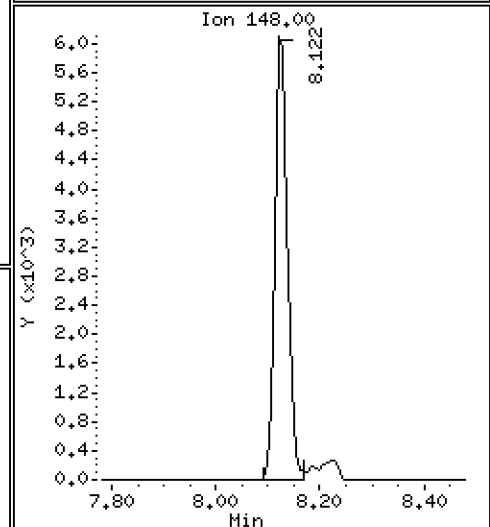
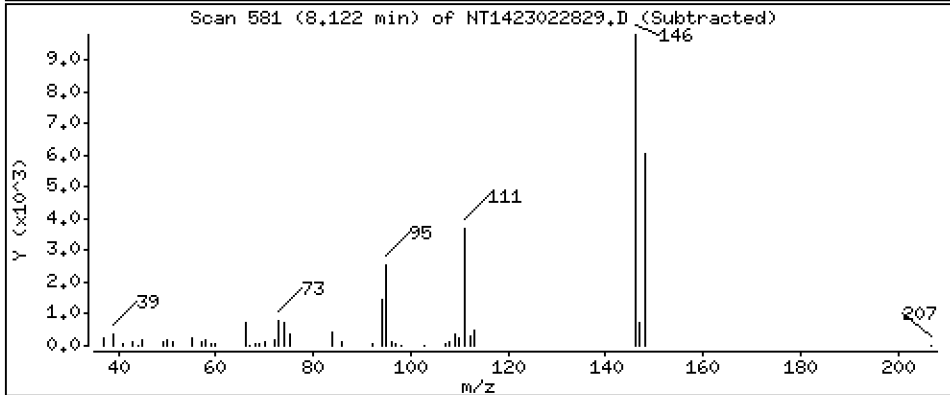
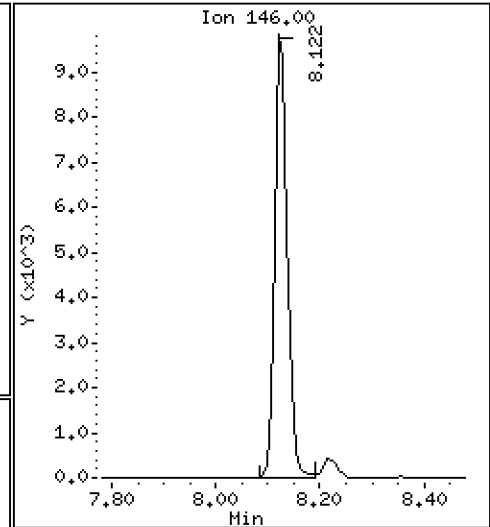
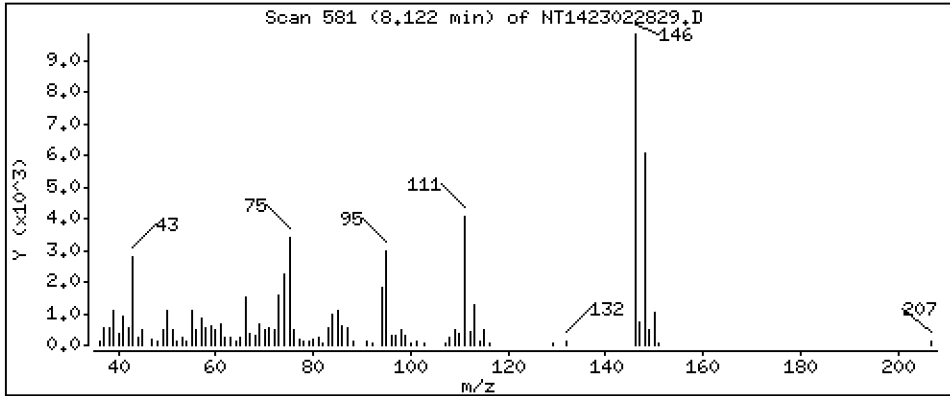
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

7 1,3-Dichlorobenzene

Concentration: 0,3681 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

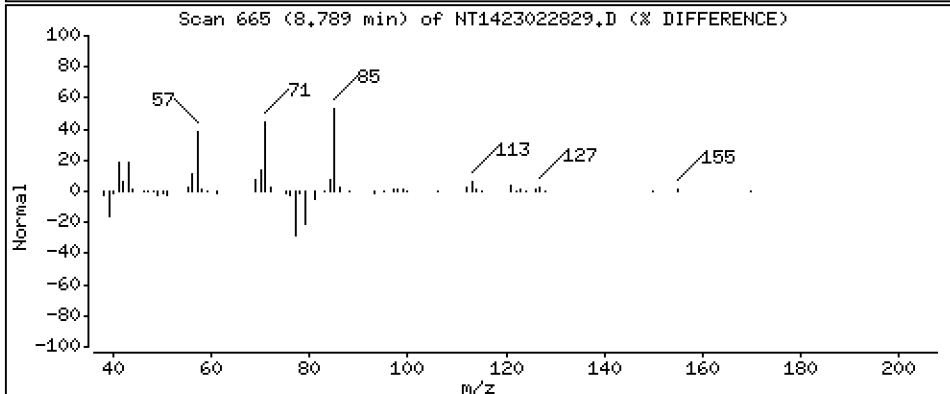
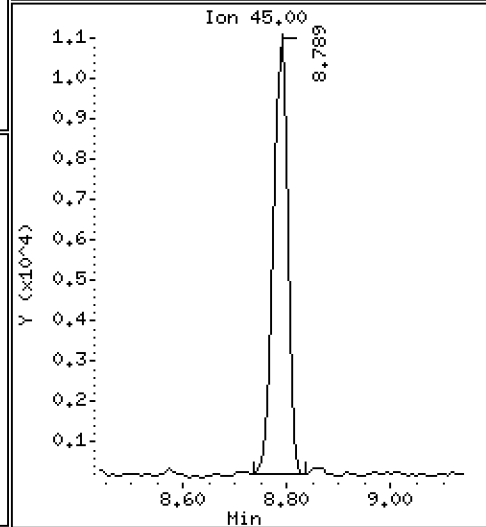
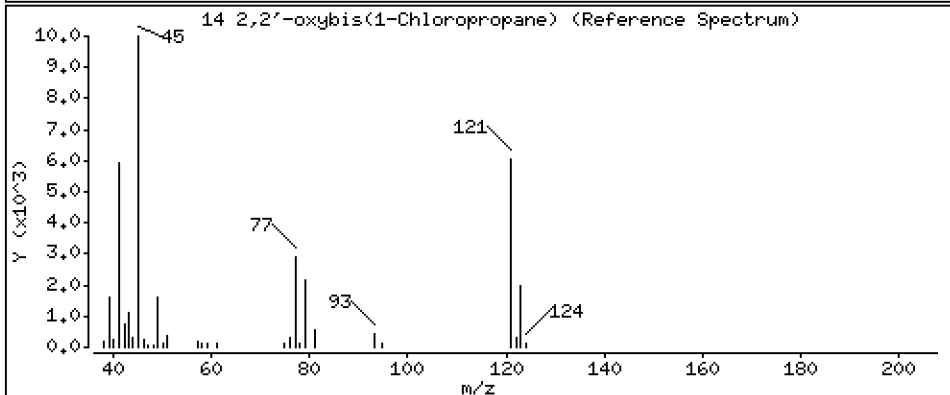
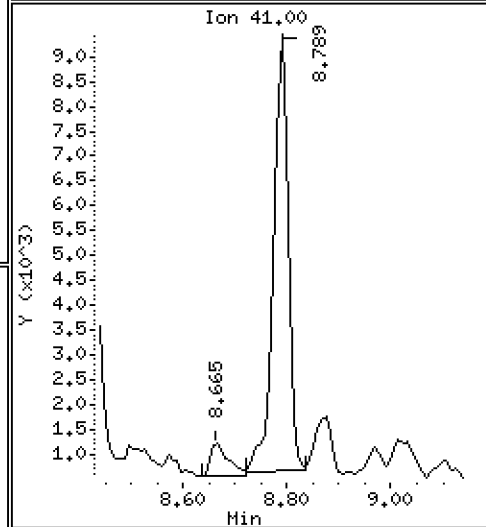
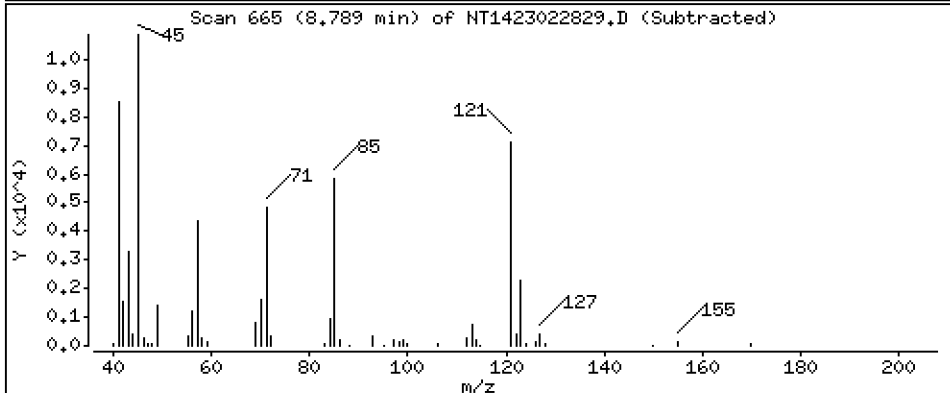
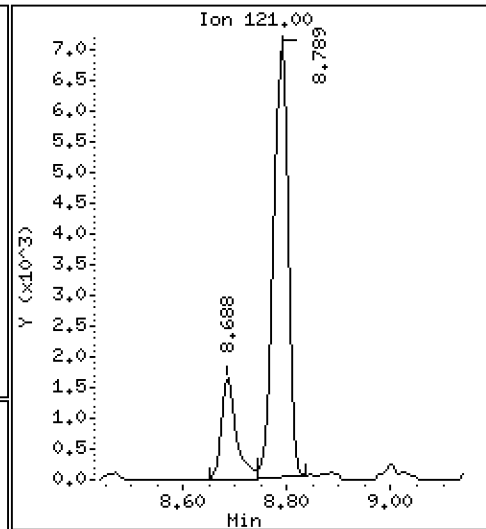
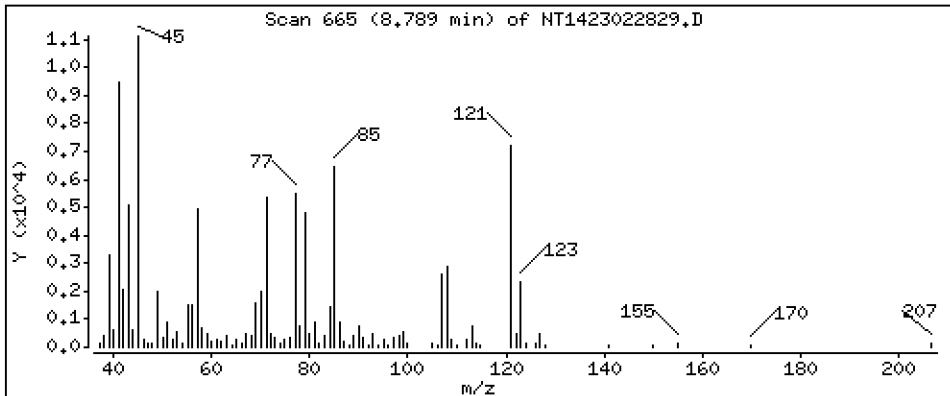
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

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

Concentration: 1.169 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

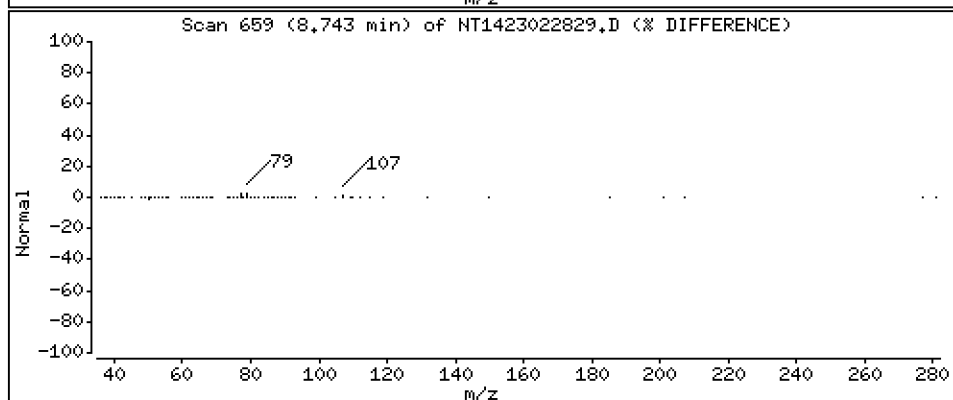
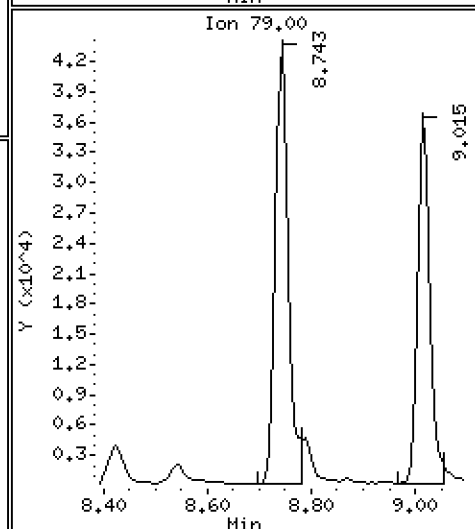
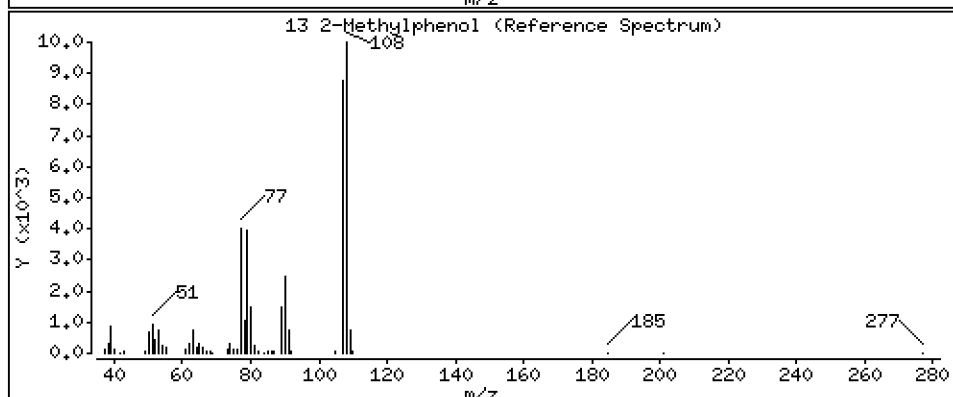
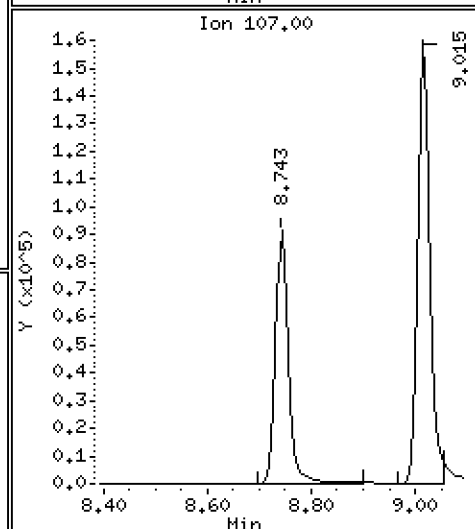
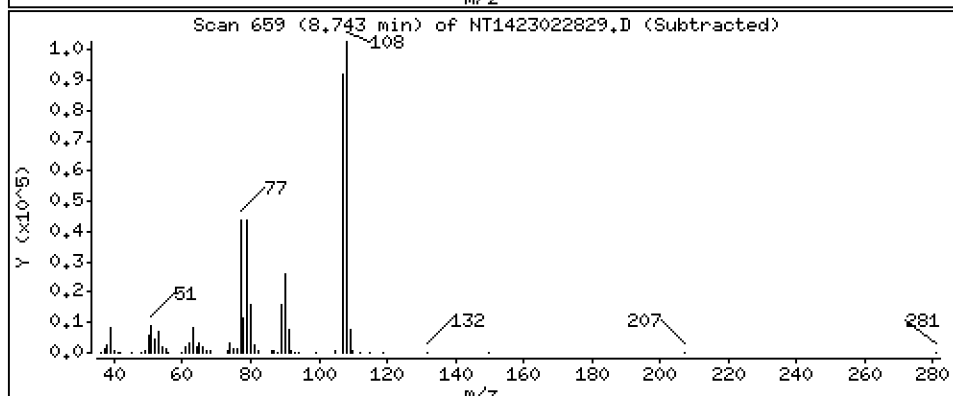
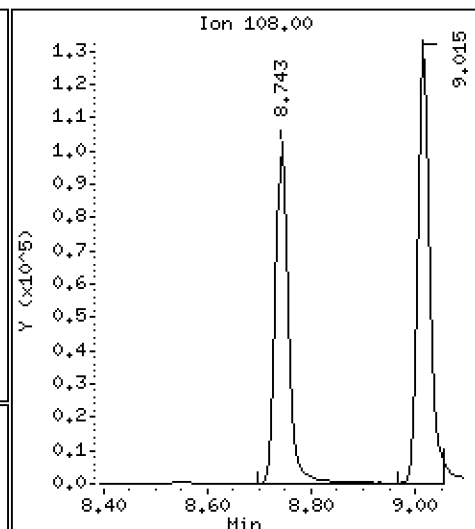
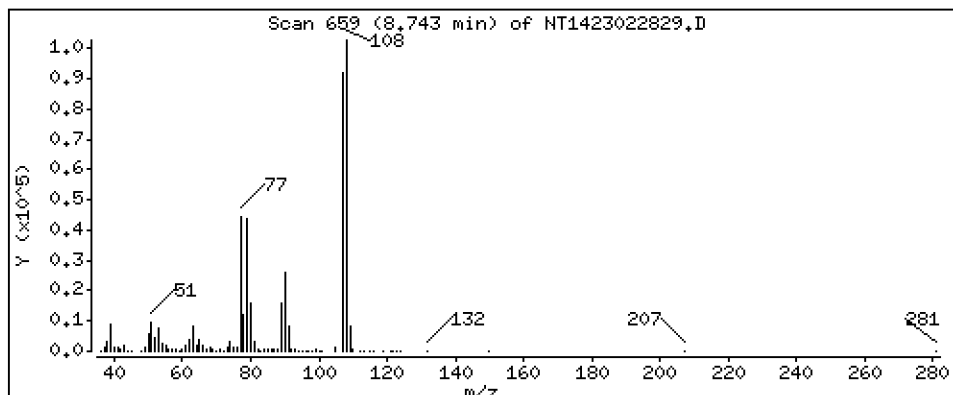
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

13 2-Methylphenol

Concentration: 5,289 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

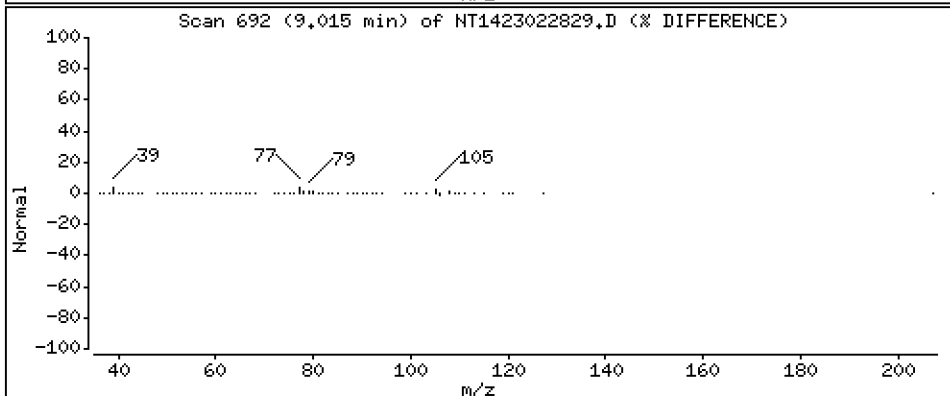
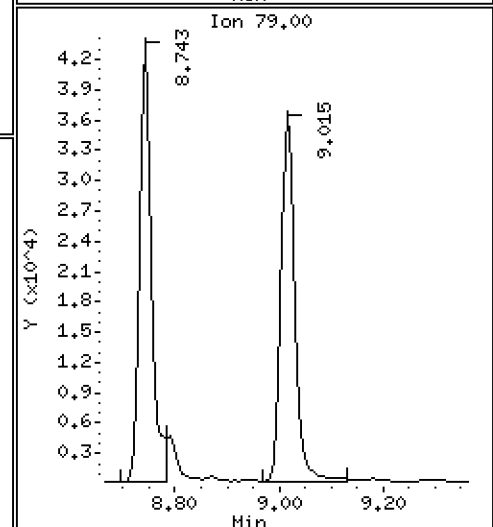
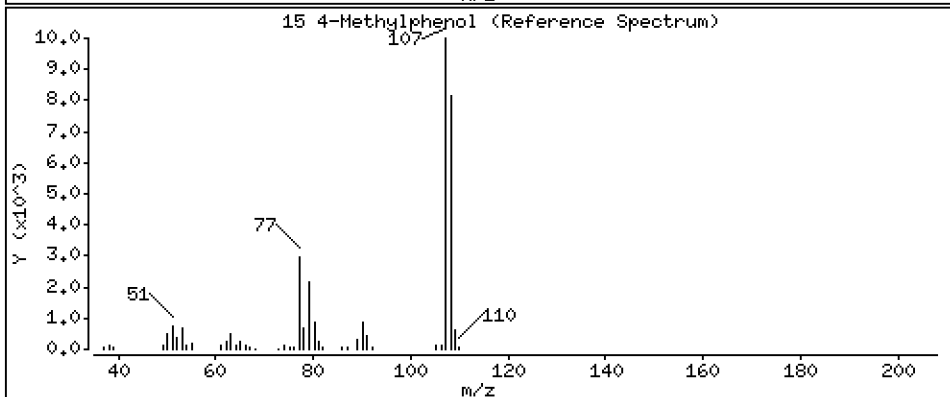
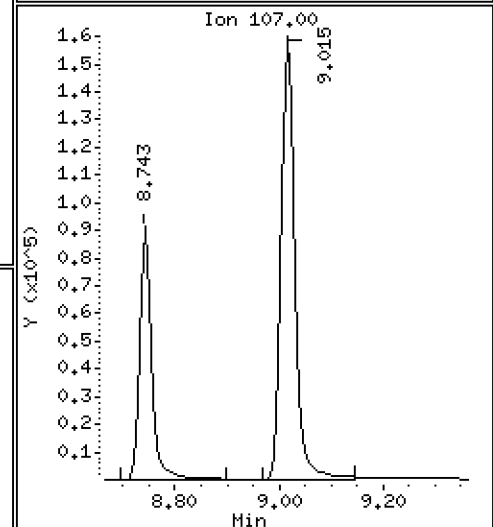
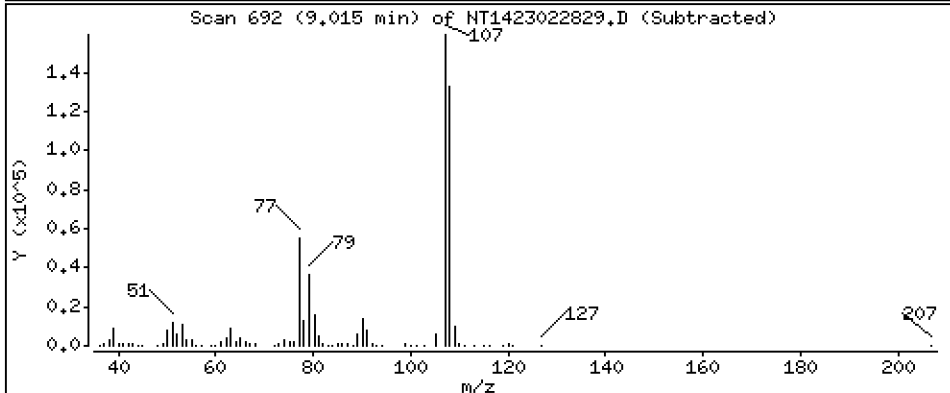
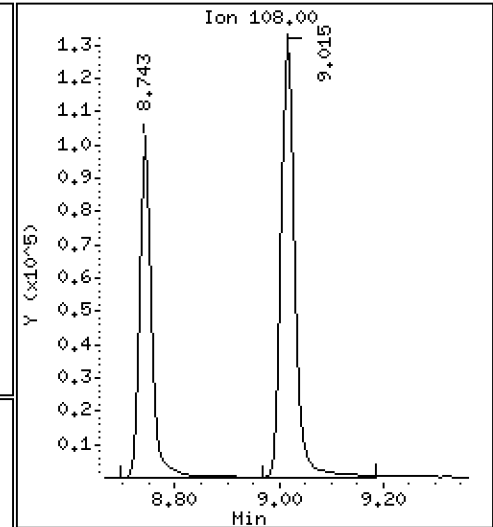
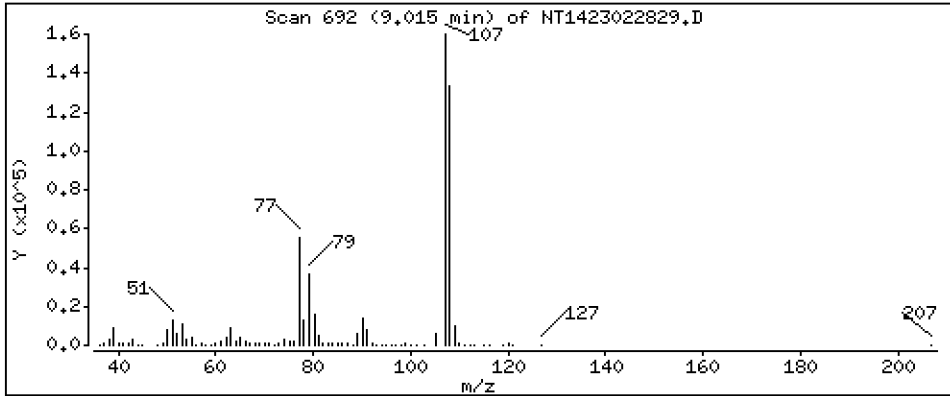
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

15 4-Methylphenol

Concentration: 5,877 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

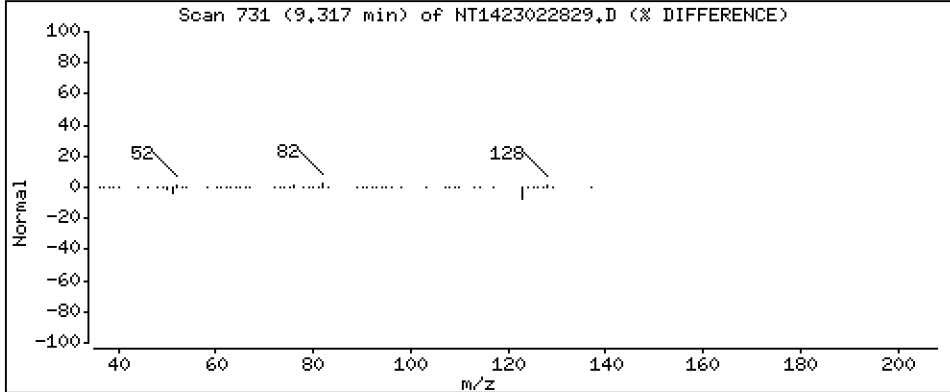
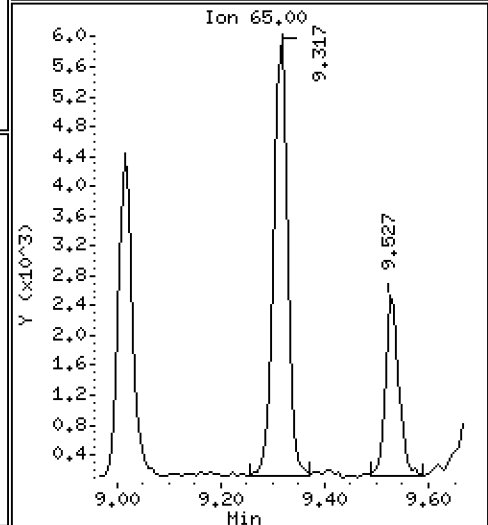
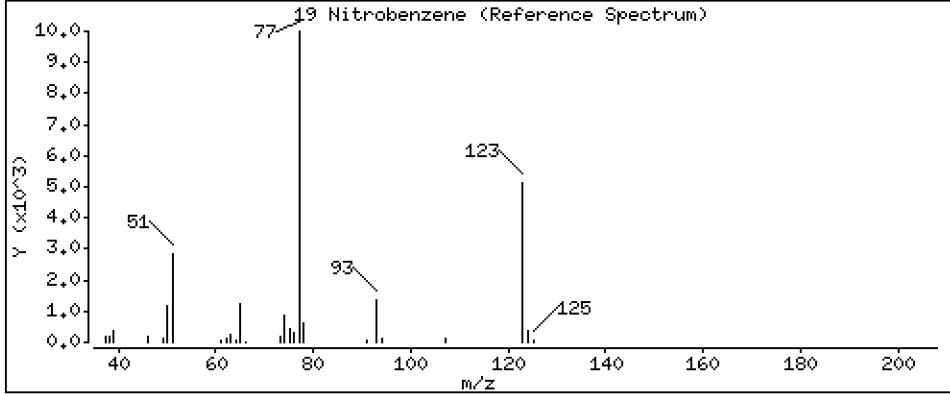
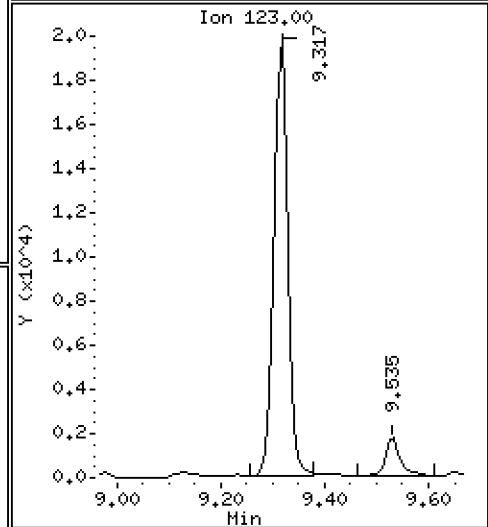
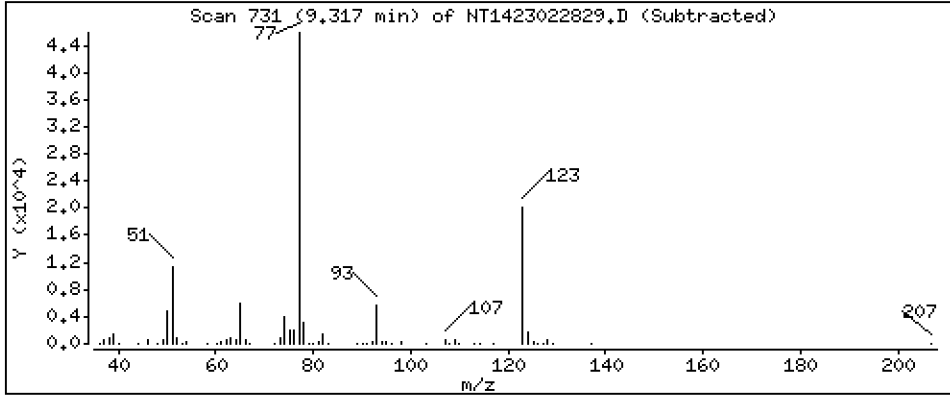
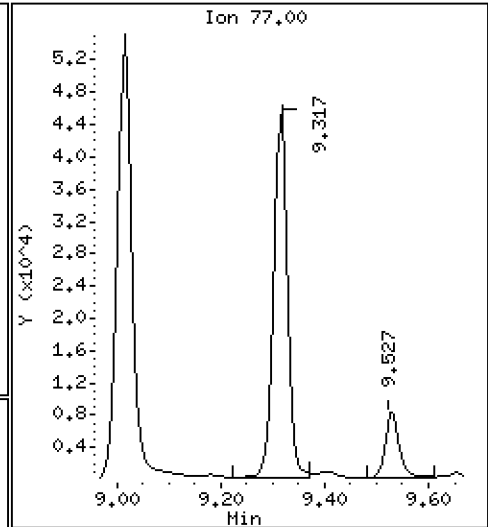
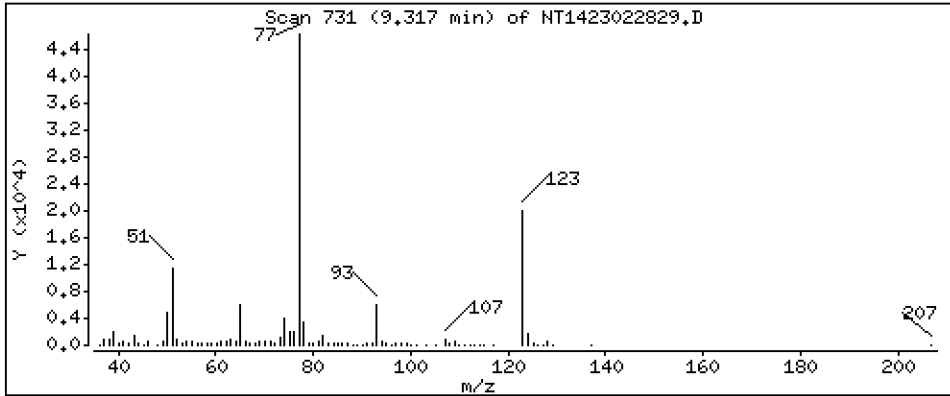
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

19 Nitrobenzene

Concentration: 1,962 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

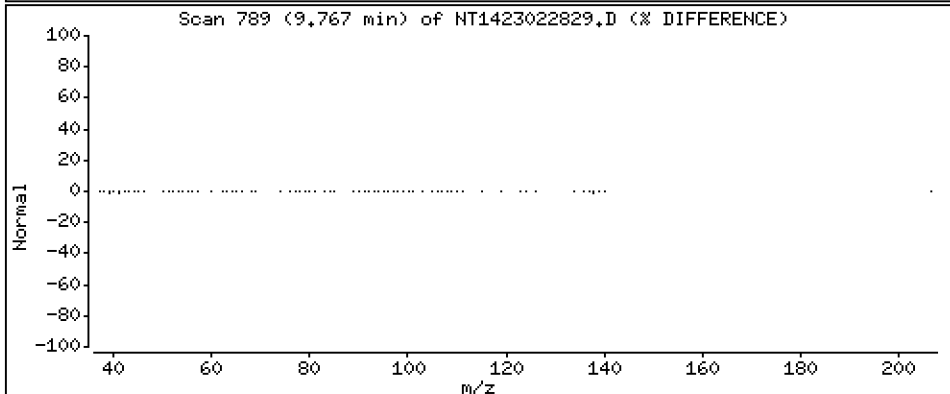
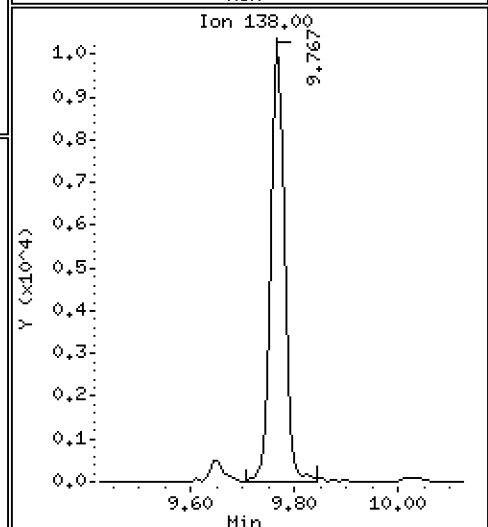
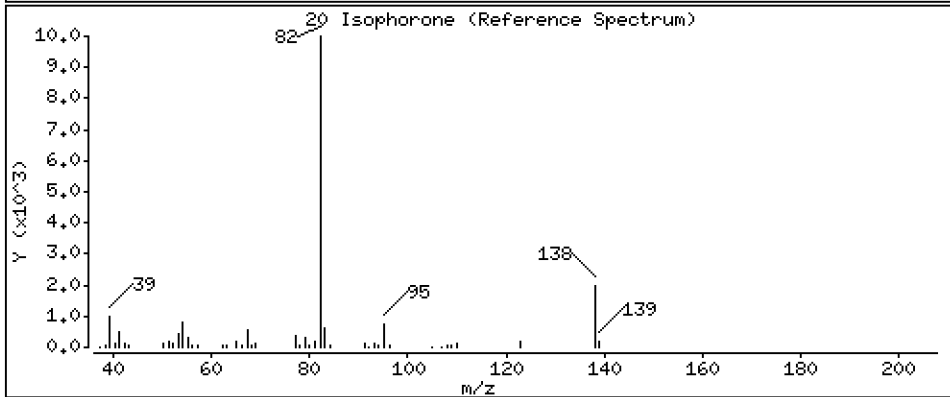
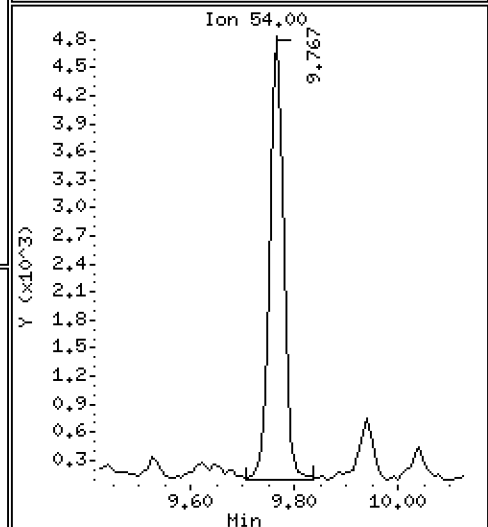
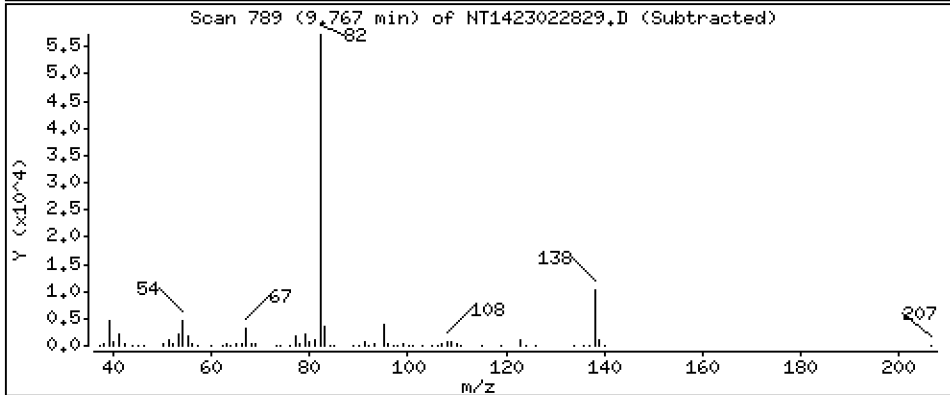
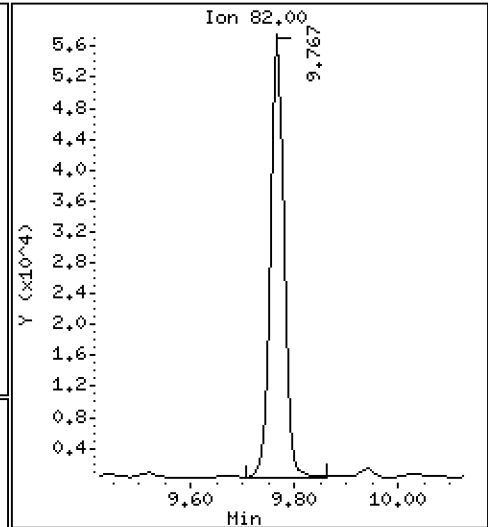
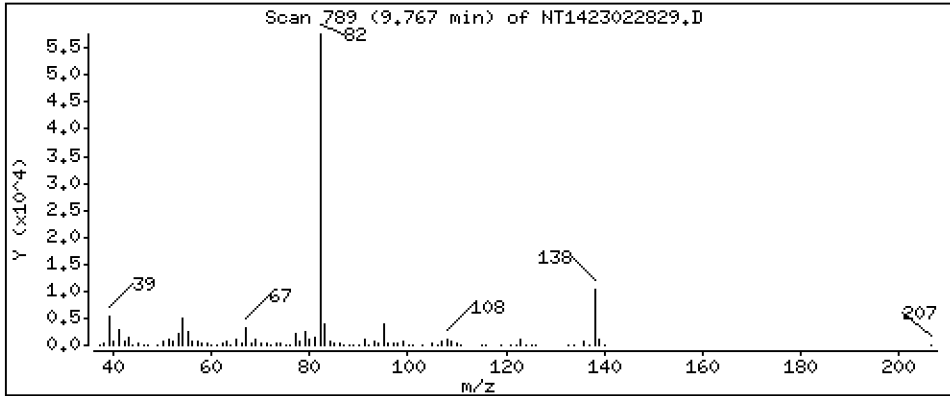
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

20 Isophorone

Concentration: 1,547 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

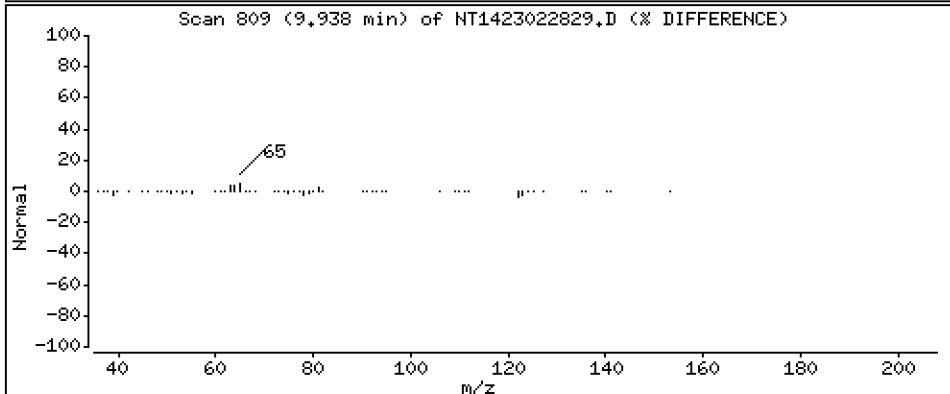
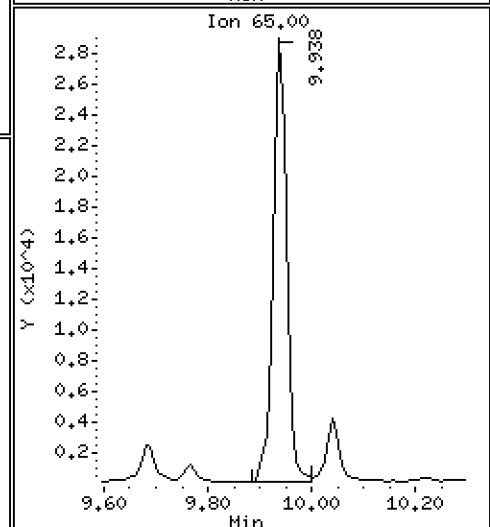
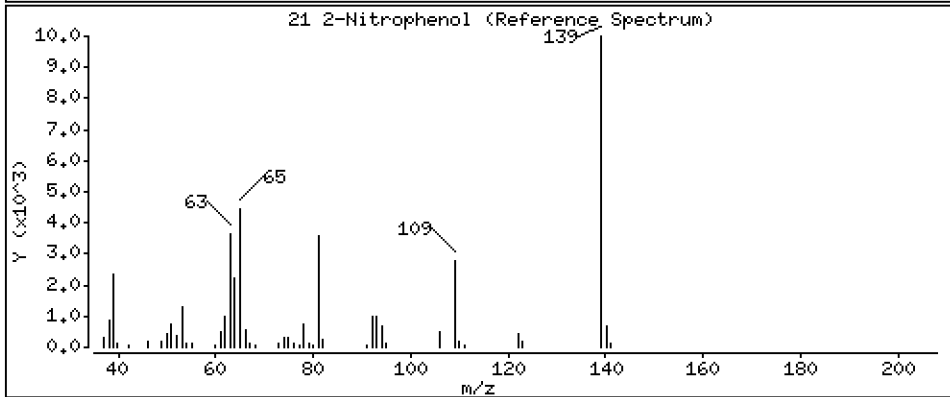
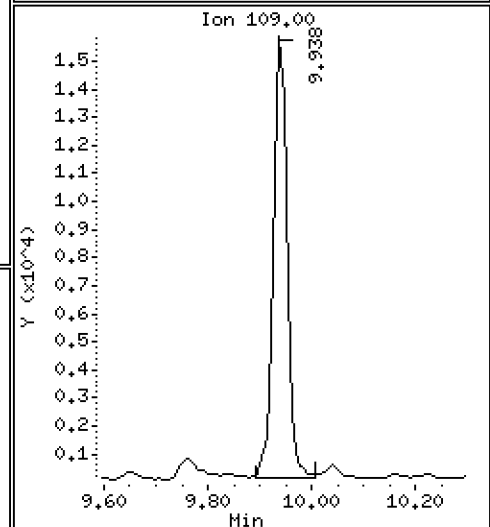
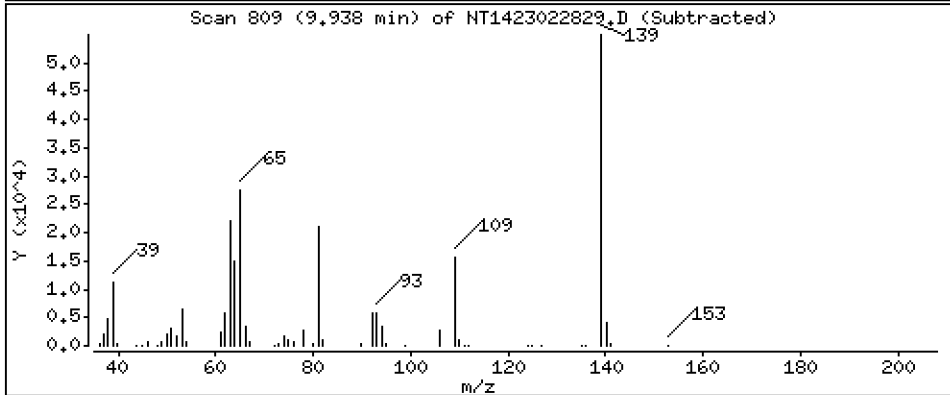
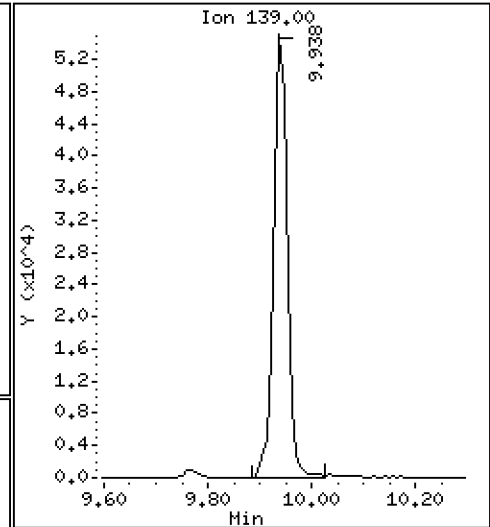
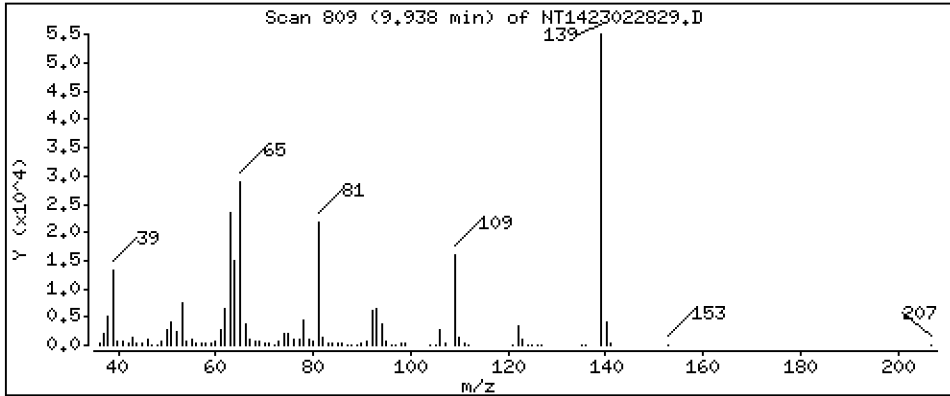
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

21 2-Nitrophenol

Concentration: 4,944 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

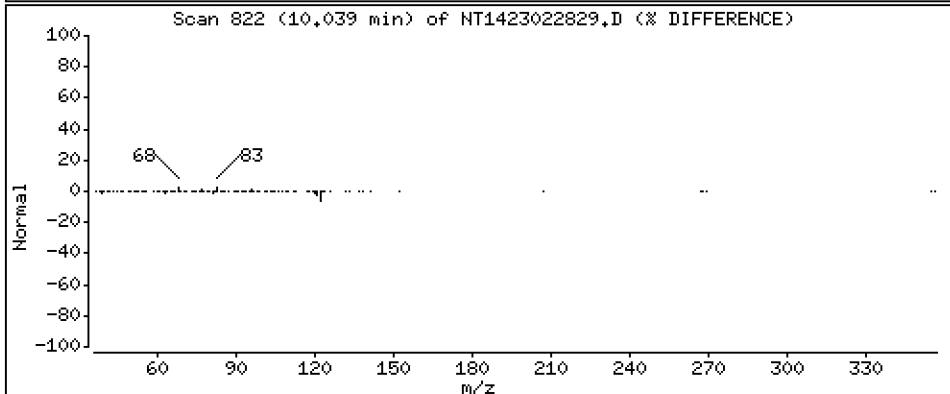
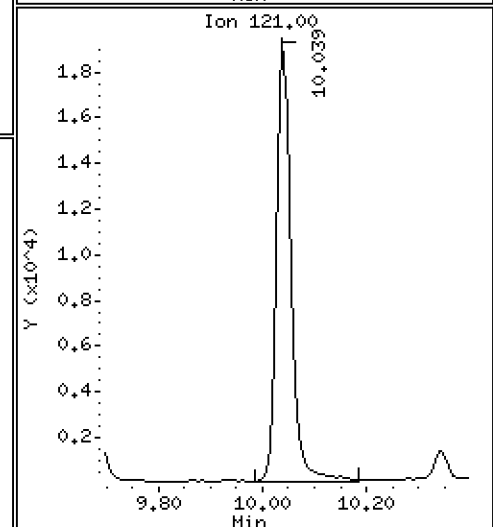
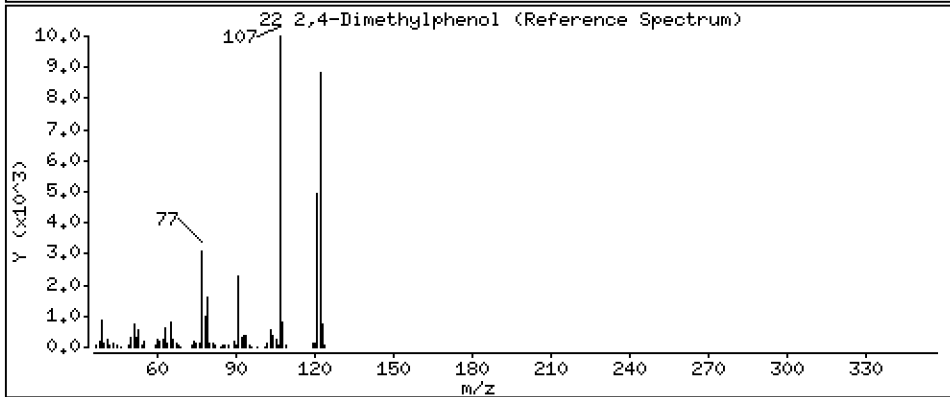
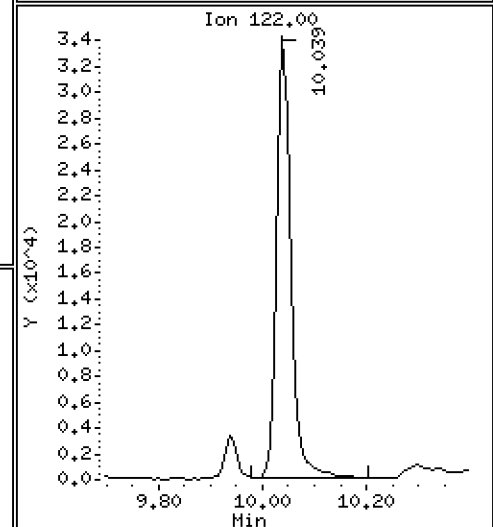
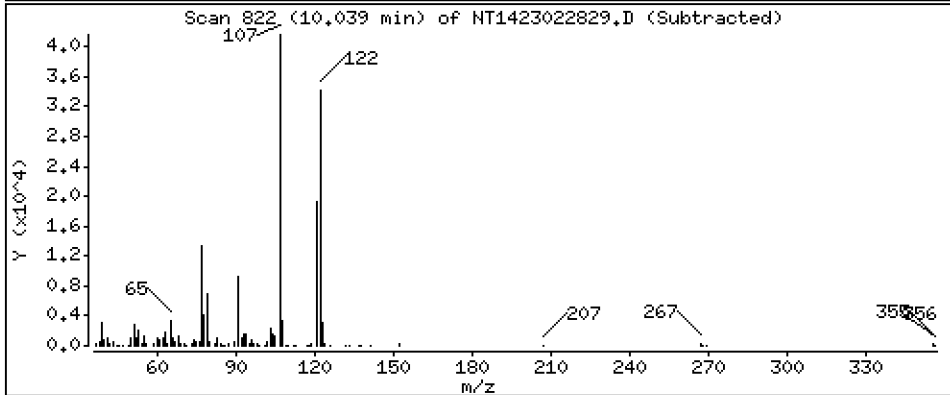
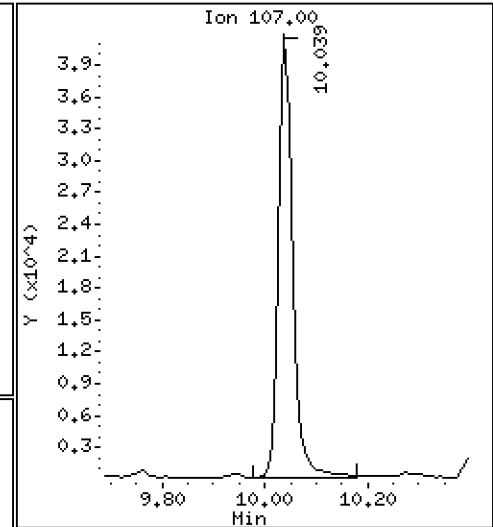
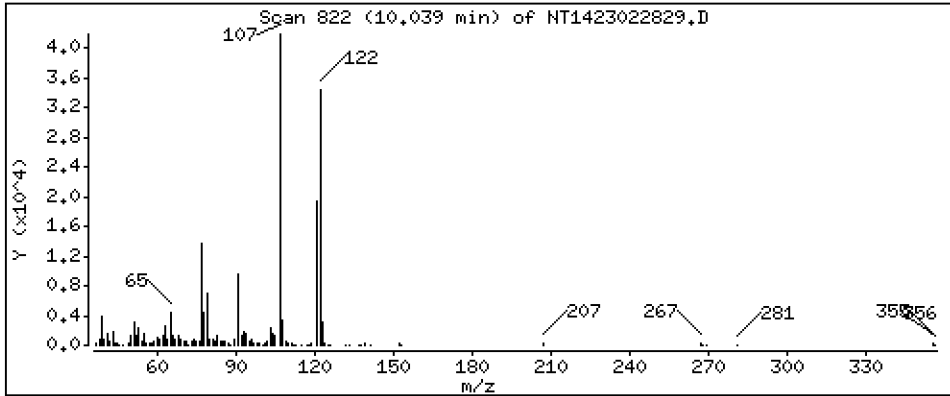
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 2,034 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

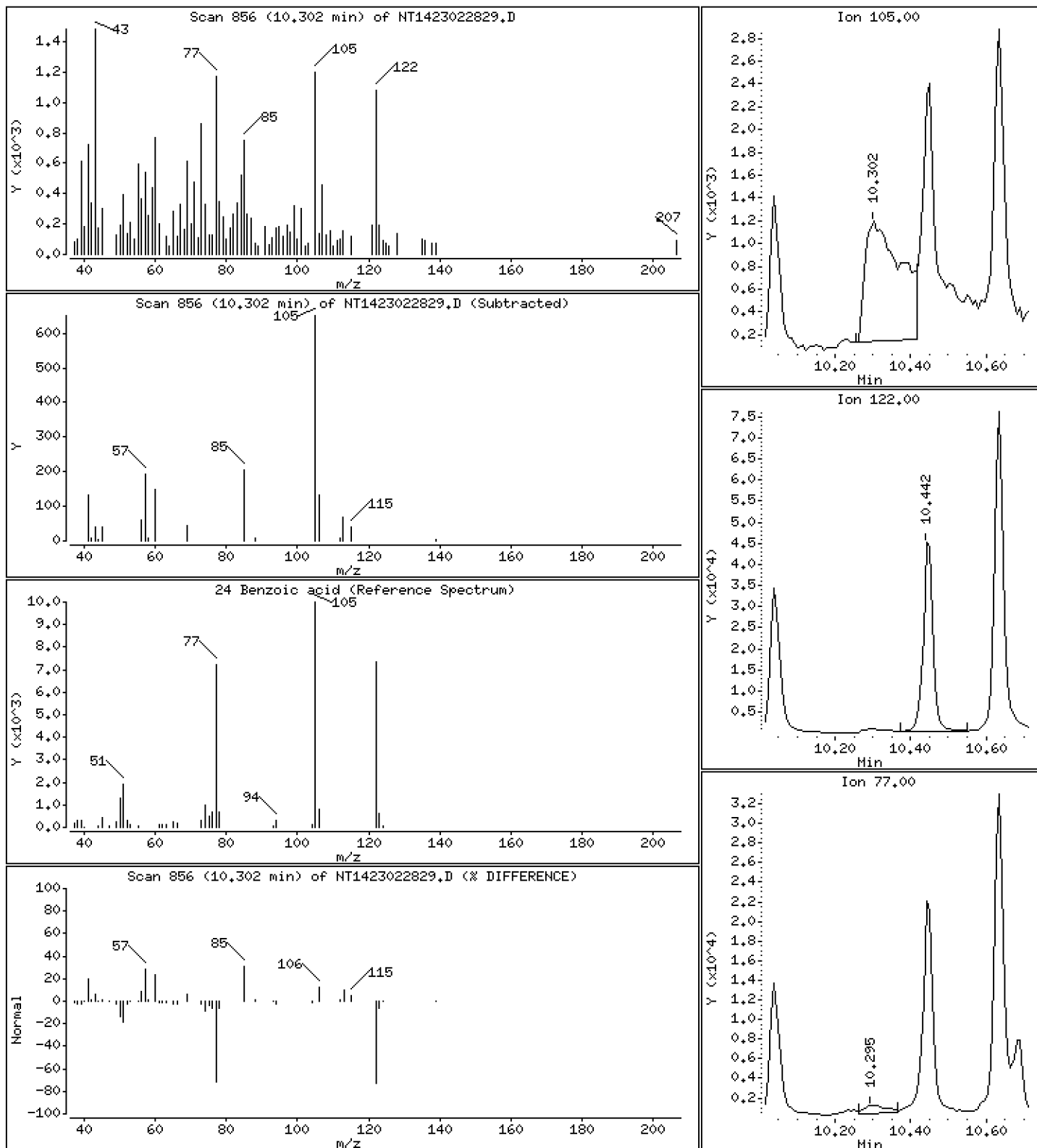
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

24 Benzoic acid

Concentration: 0.4856 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

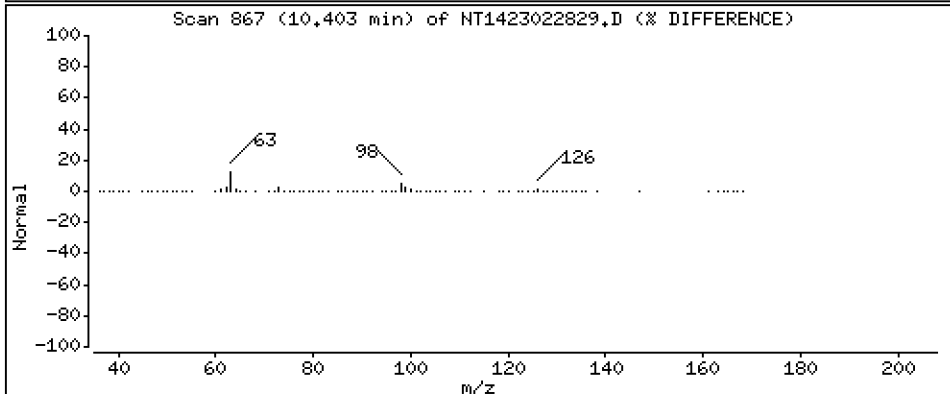
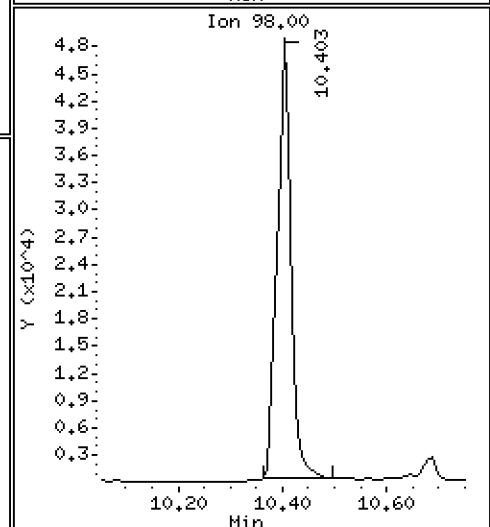
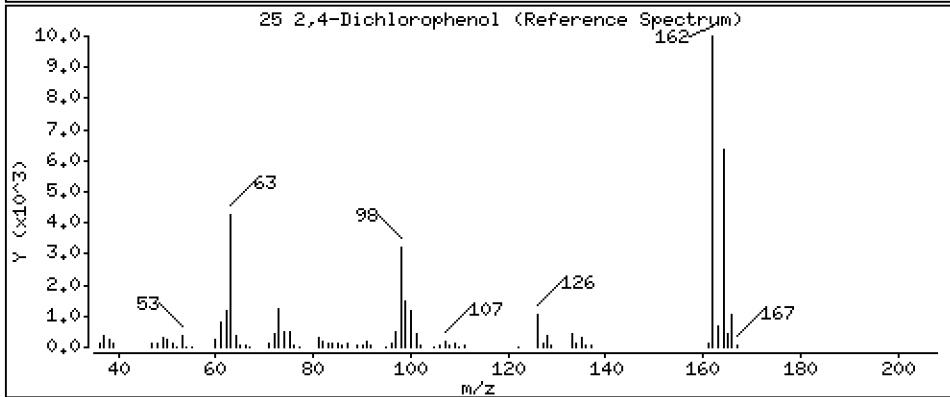
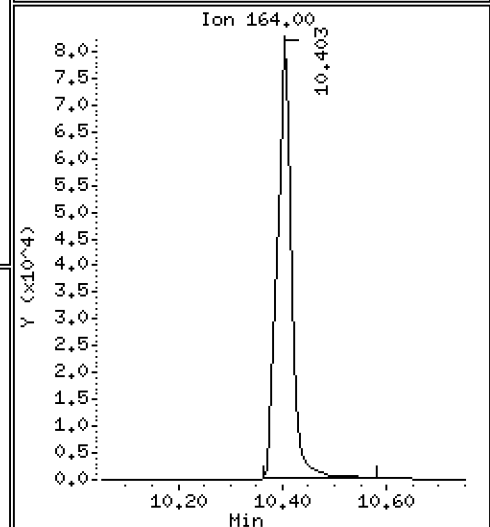
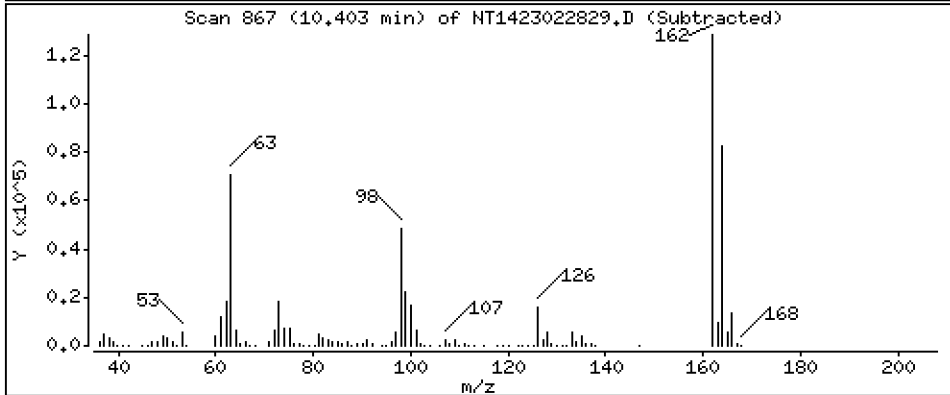
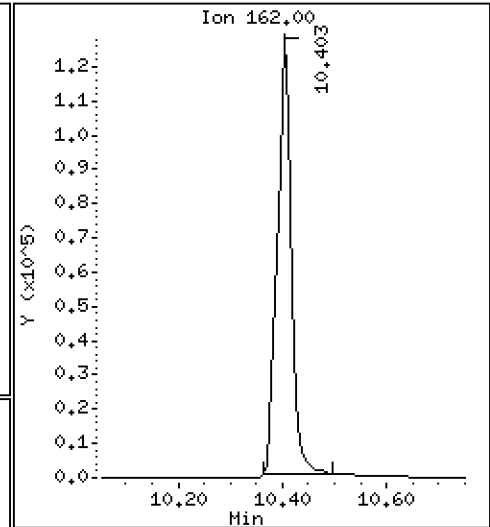
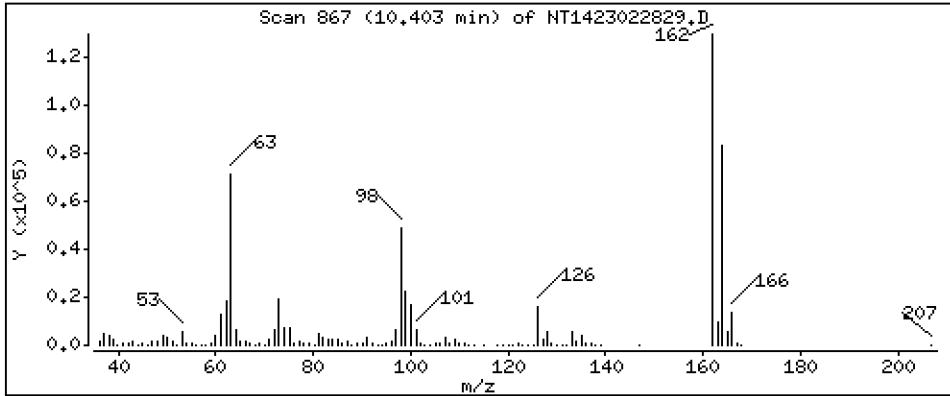
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 6,143 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

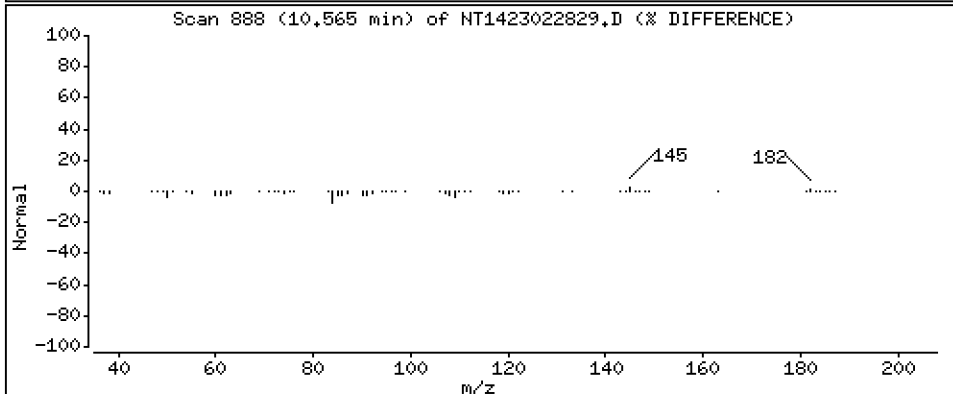
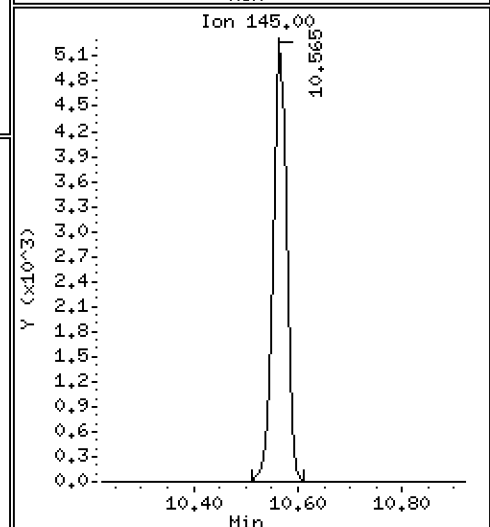
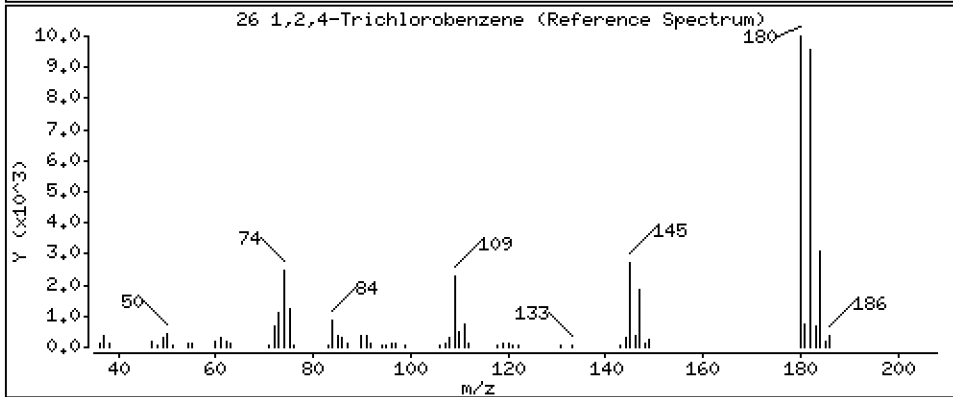
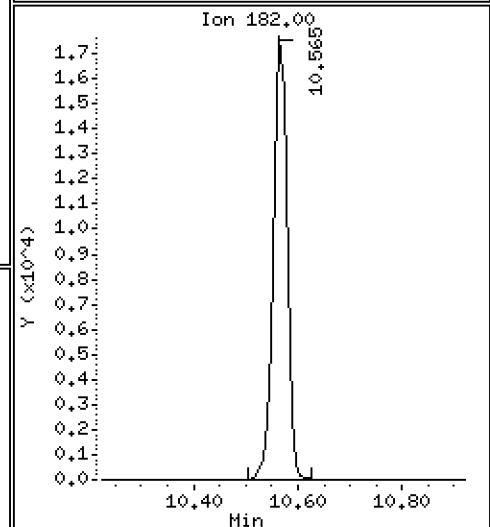
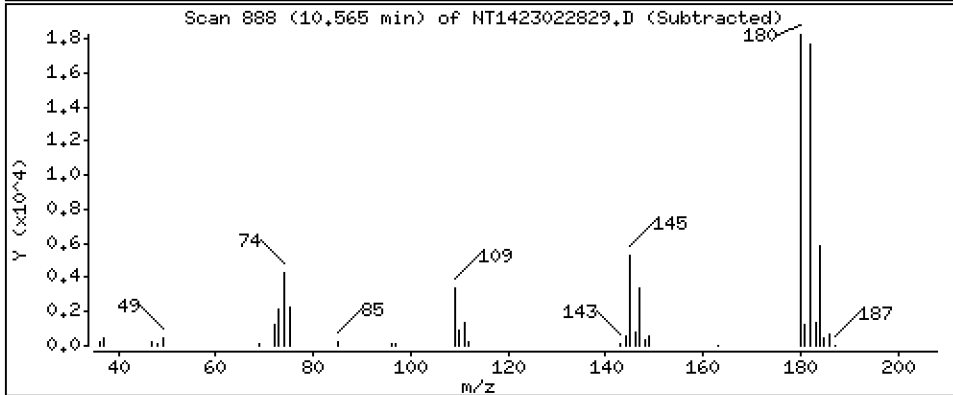
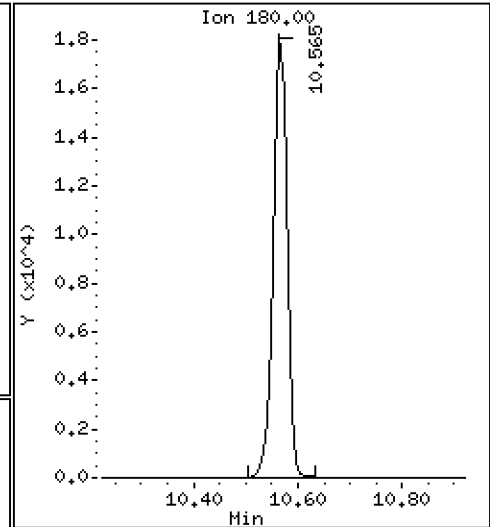
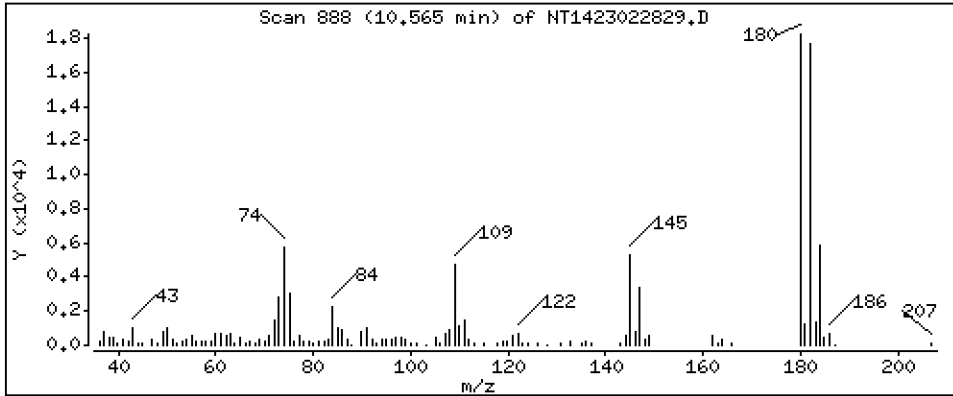
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 0,7577 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

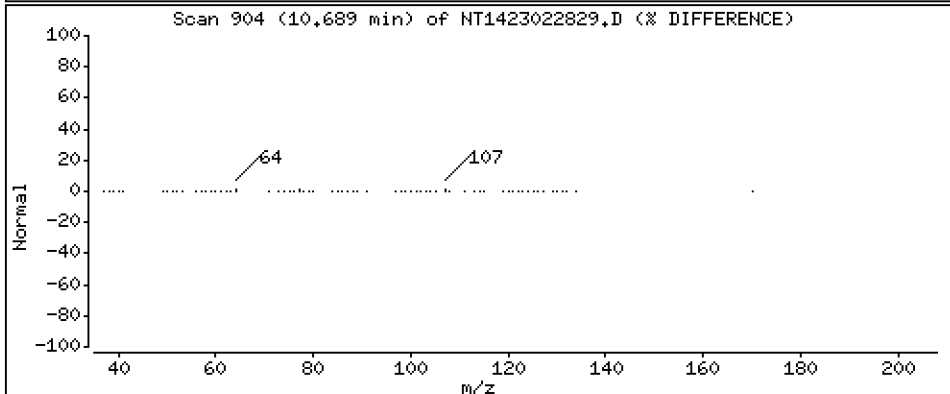
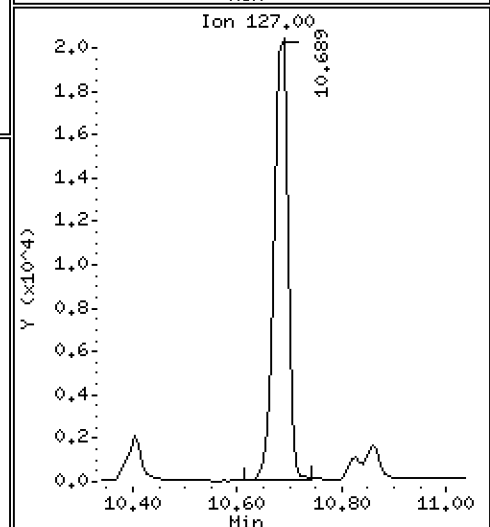
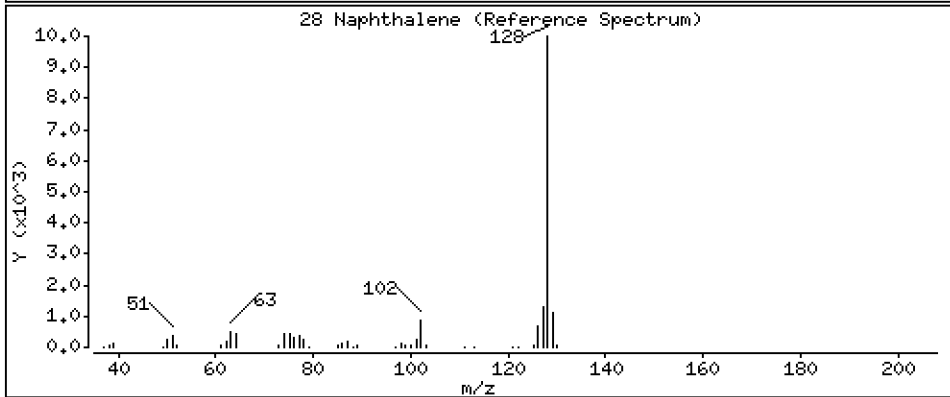
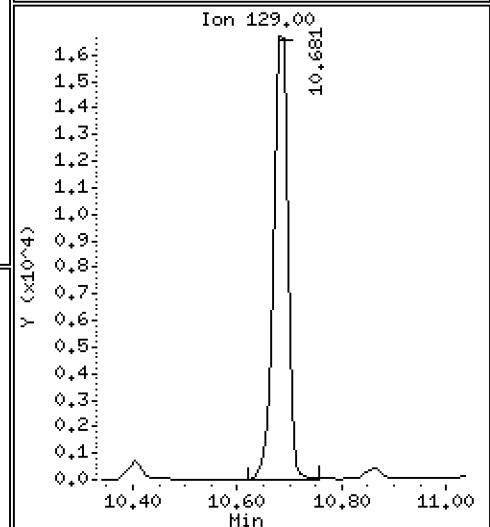
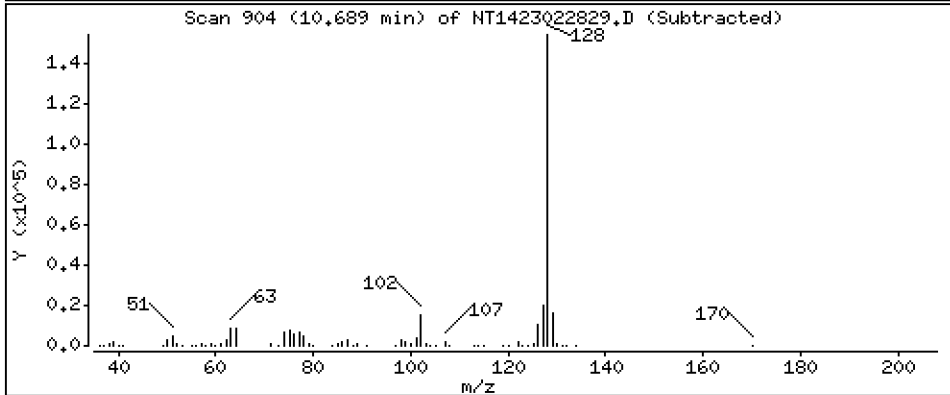
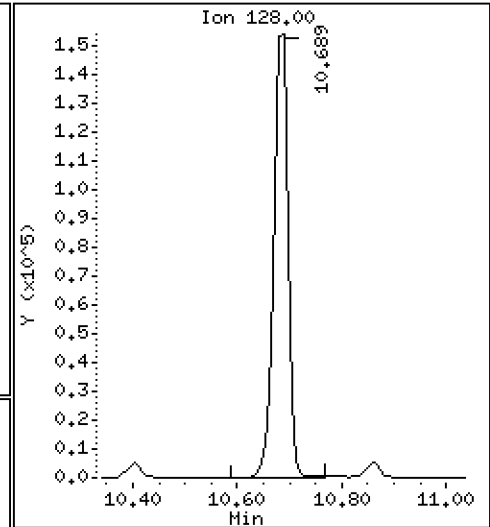
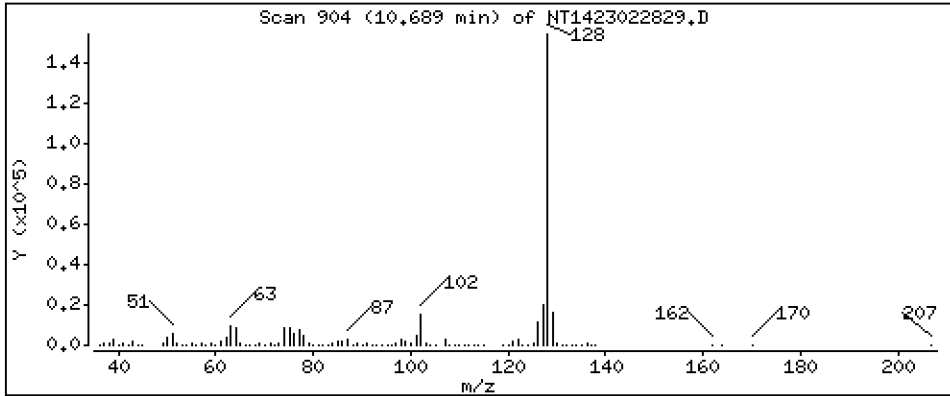
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 2,415 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

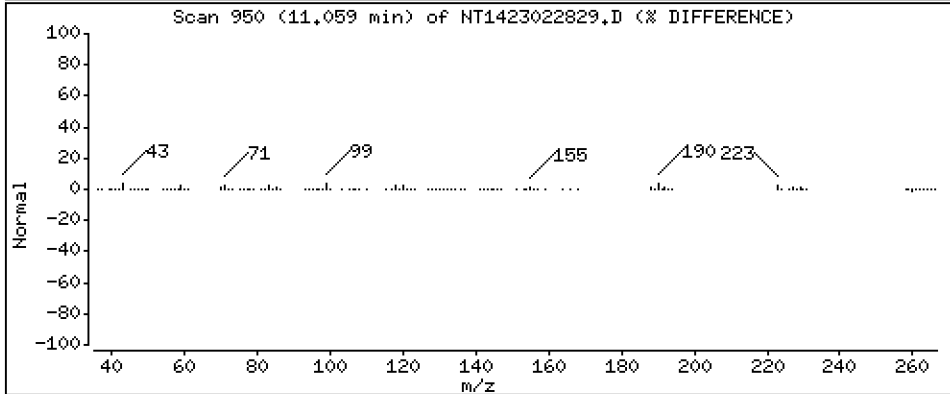
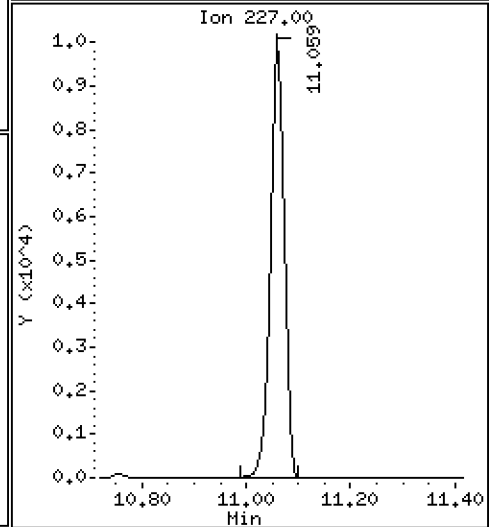
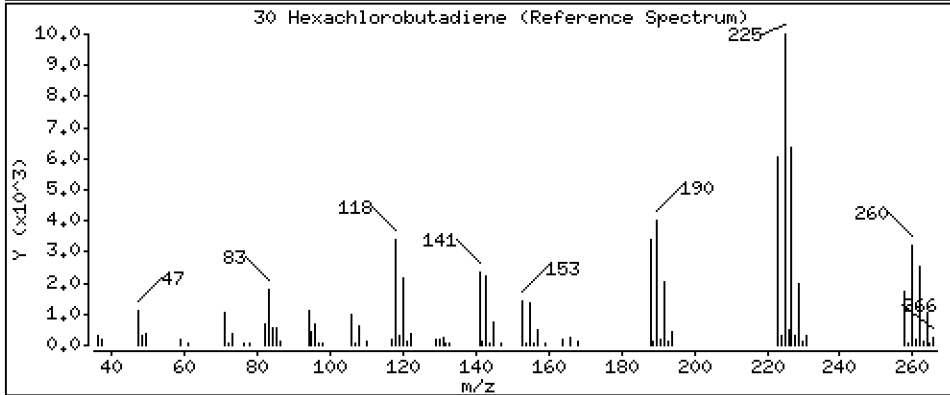
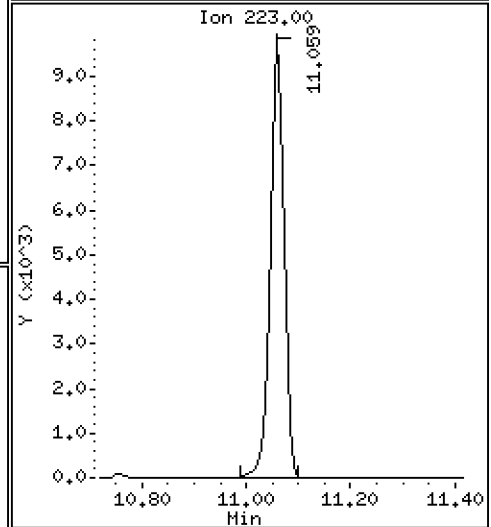
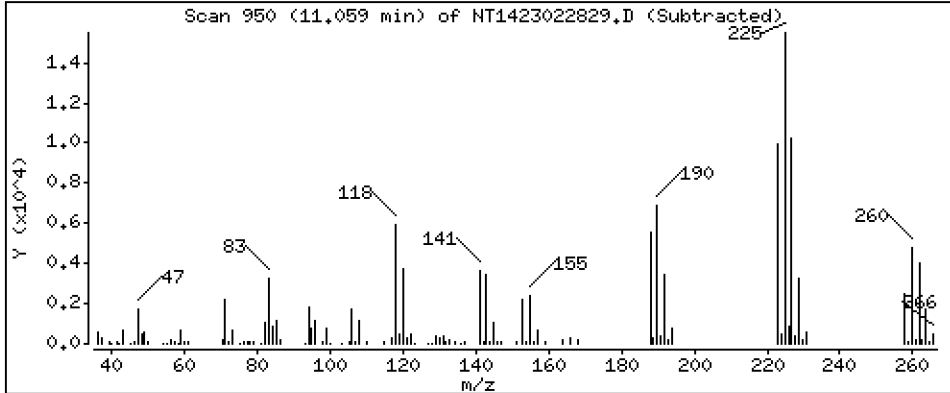
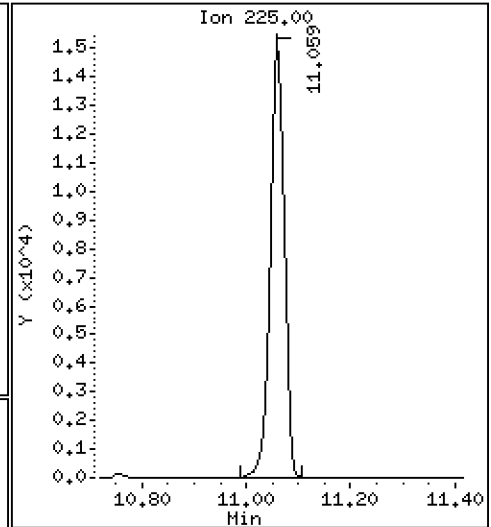
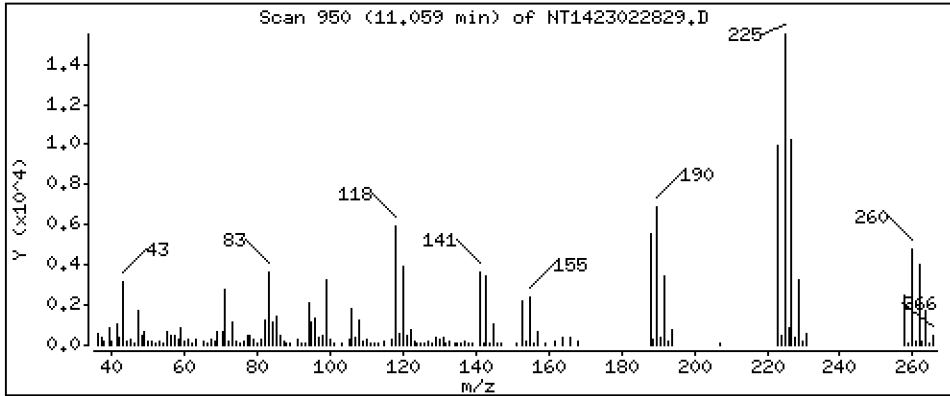
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 1,249 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

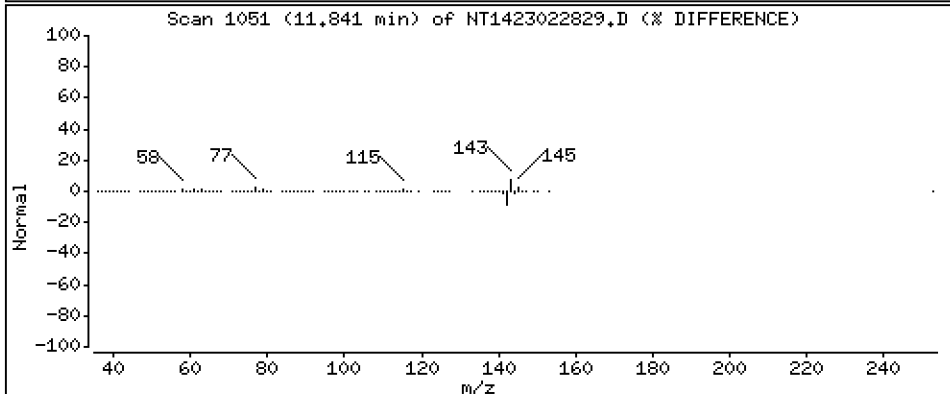
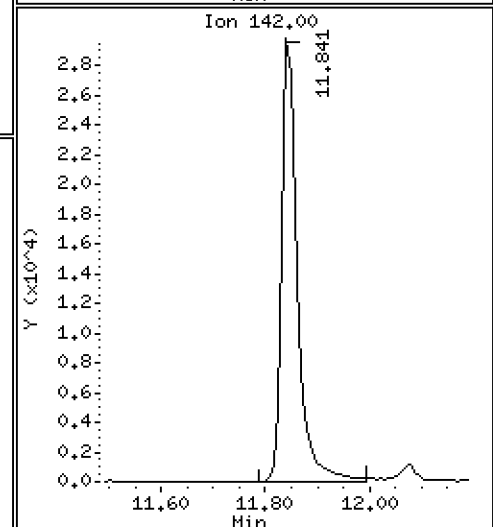
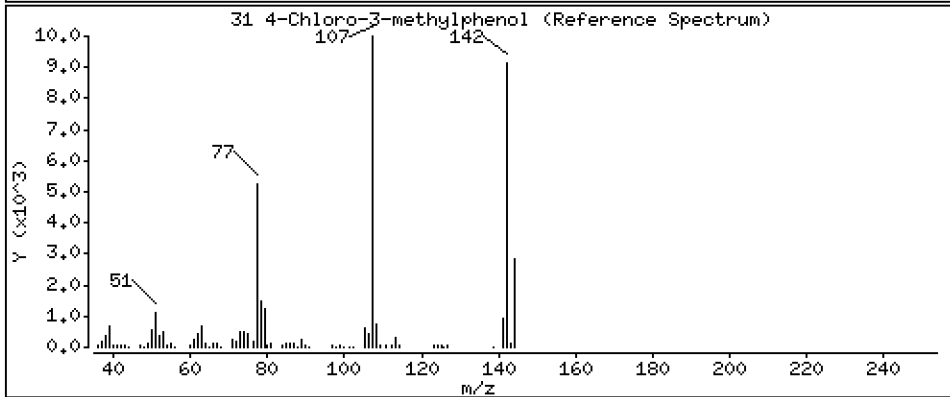
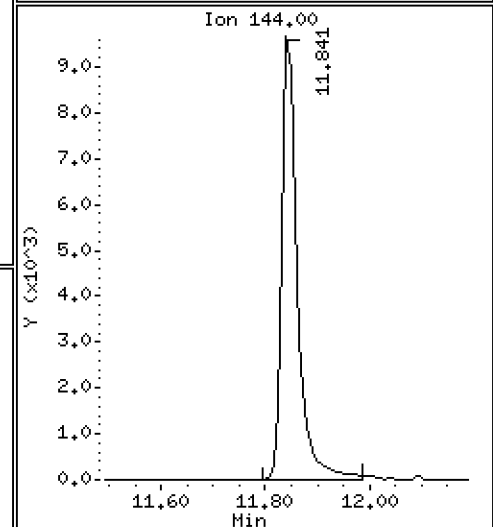
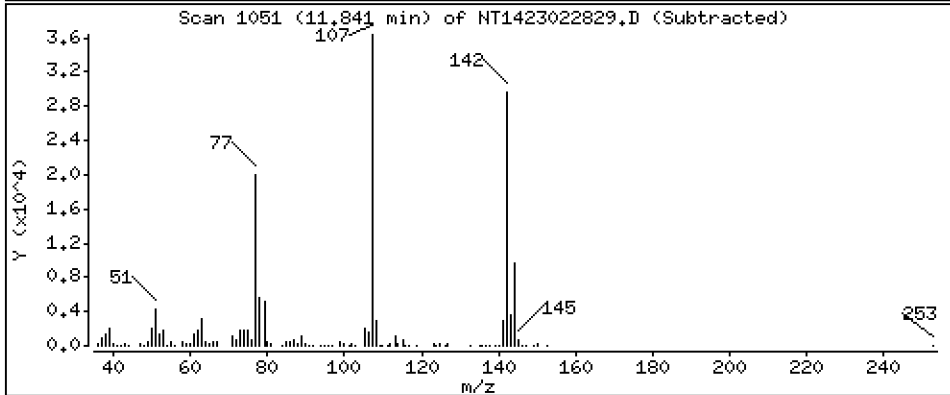
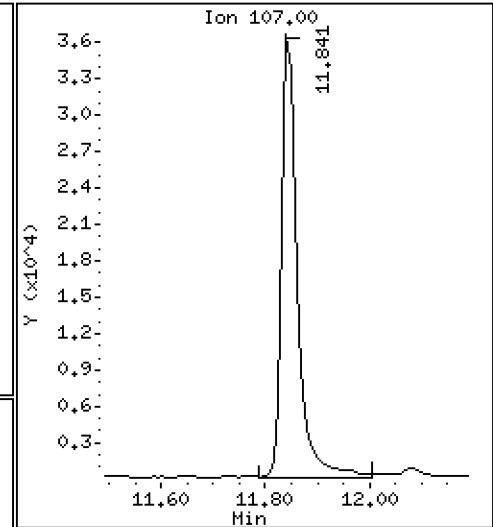
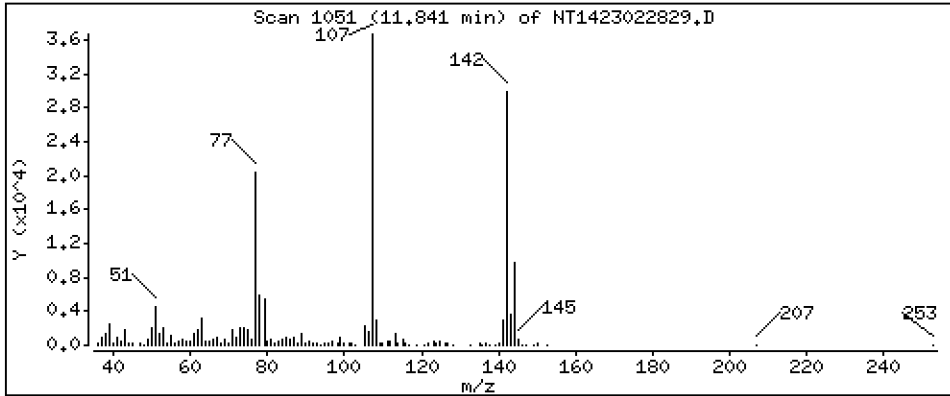
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

31 4-Chloro-3-methylphenol

Concentration: 2,185 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

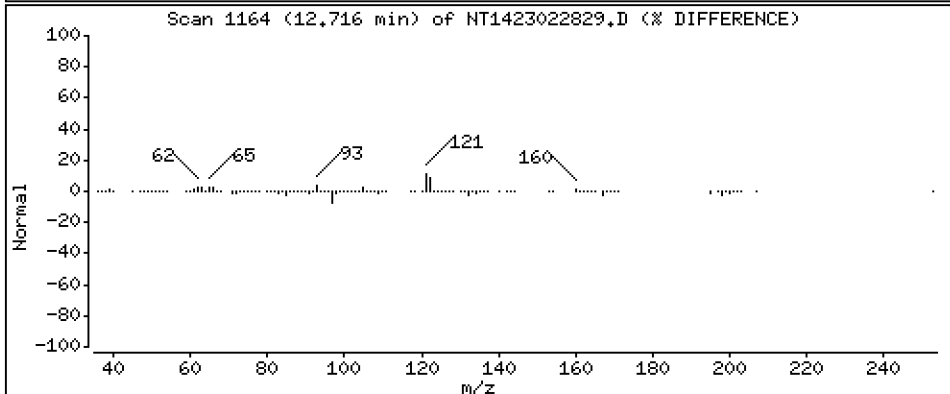
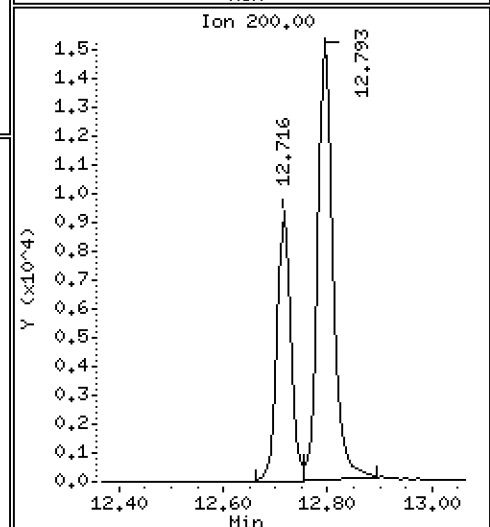
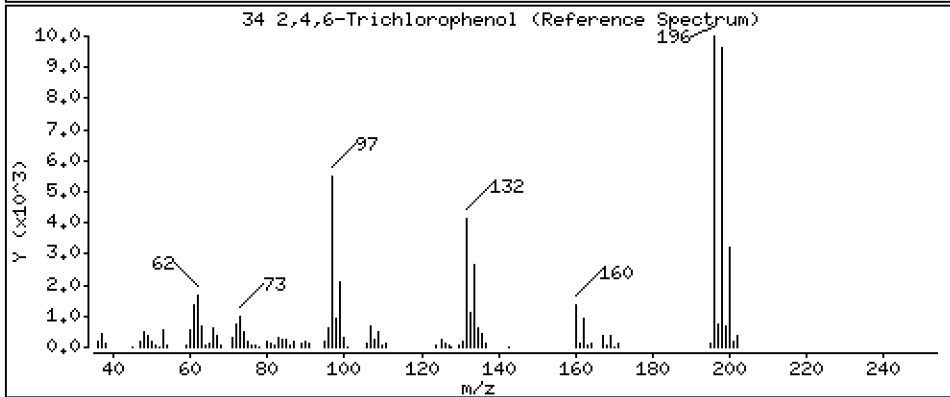
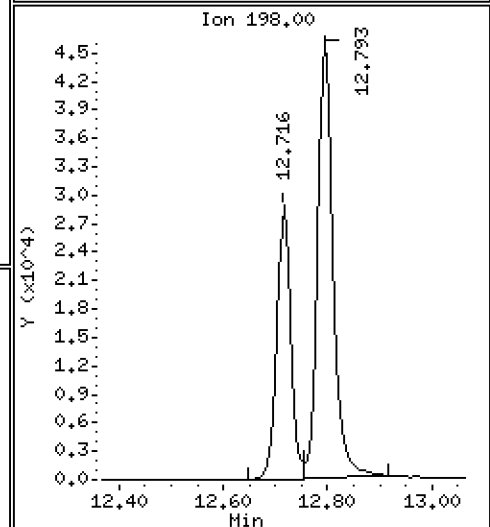
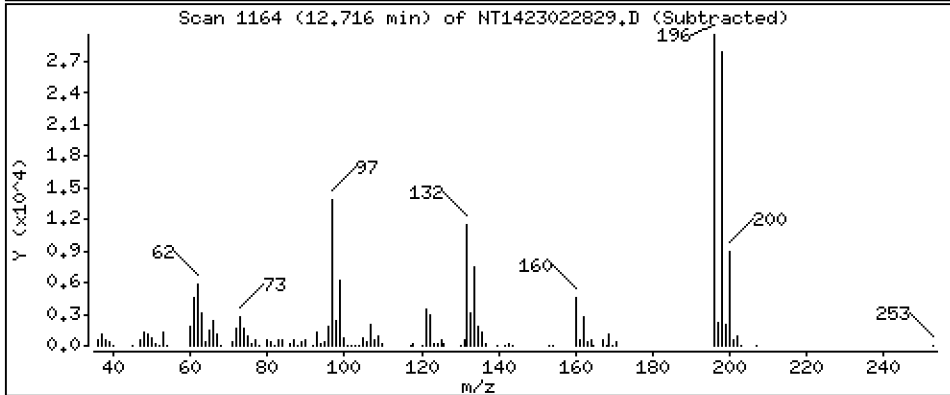
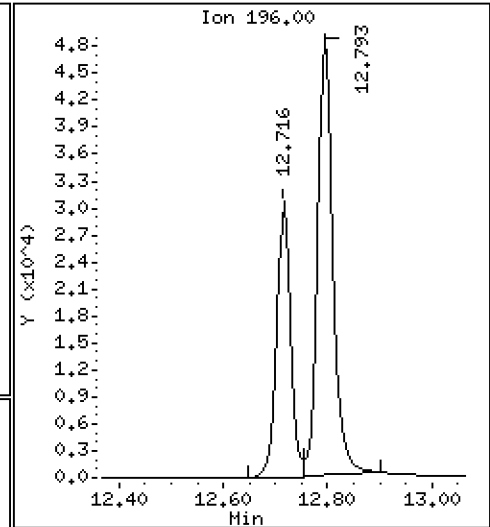
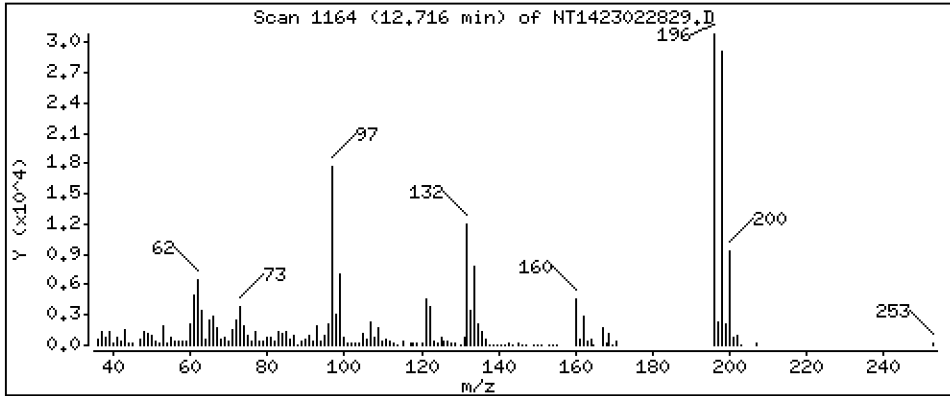
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

34 2,4,6-Trichlorophenol

Concentration: 2,268 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

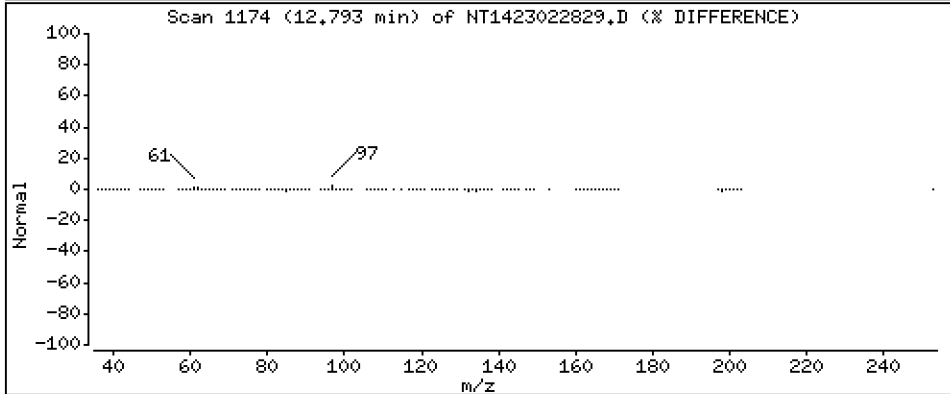
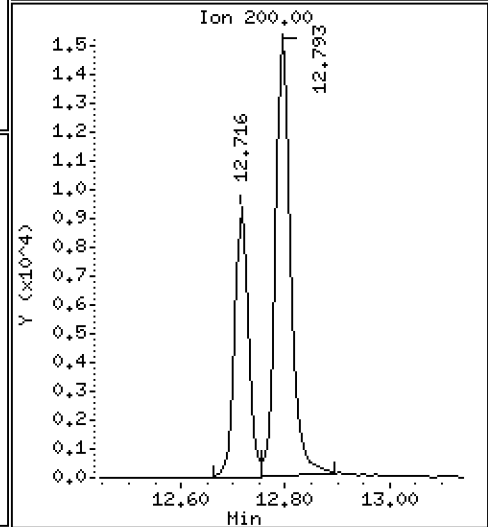
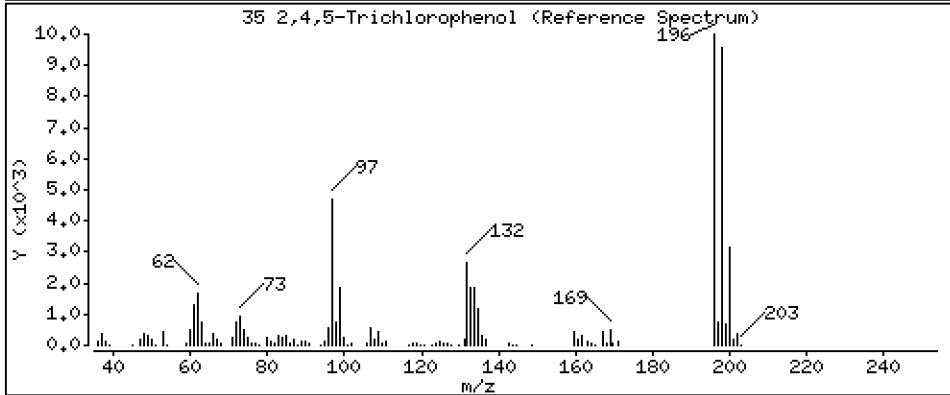
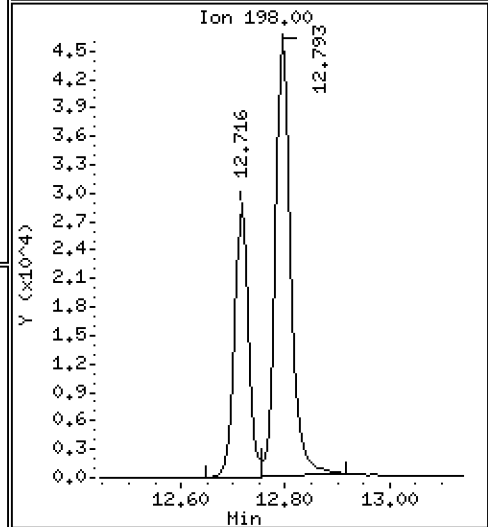
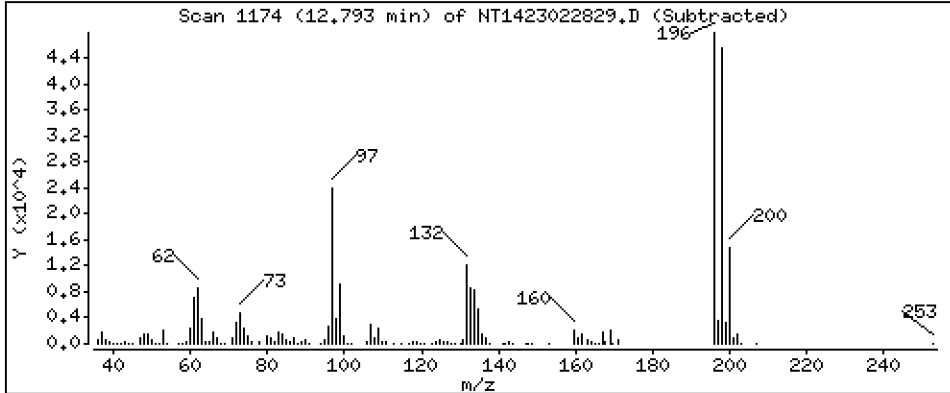
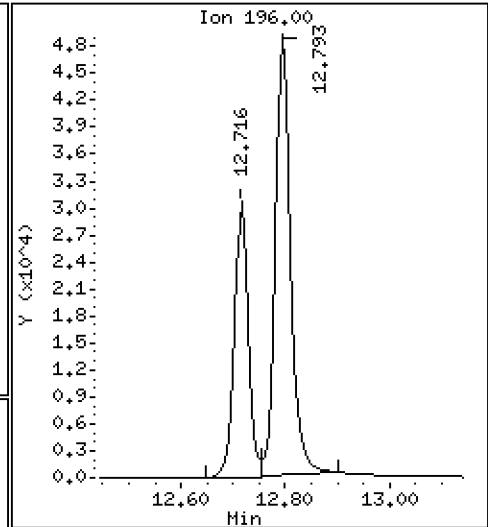
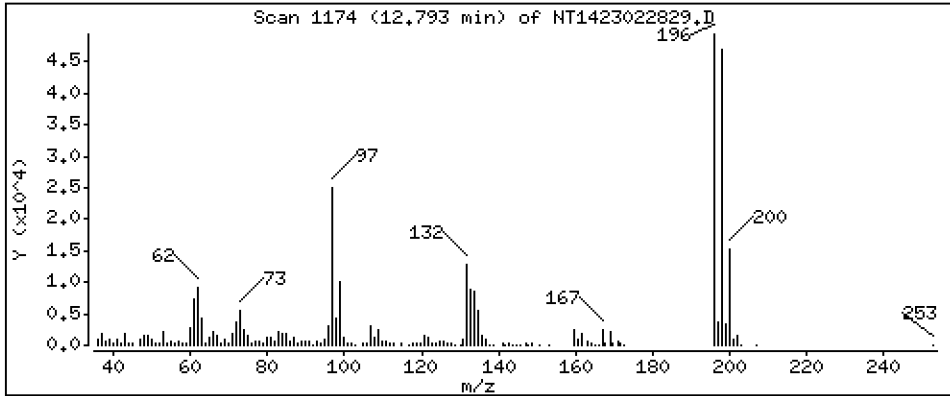
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

35 2,4,5-Trichlorophenol

Concentration: 3,657 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

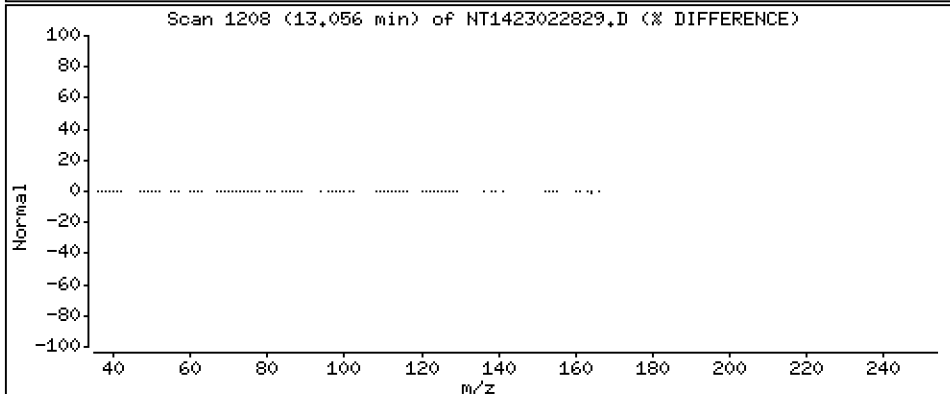
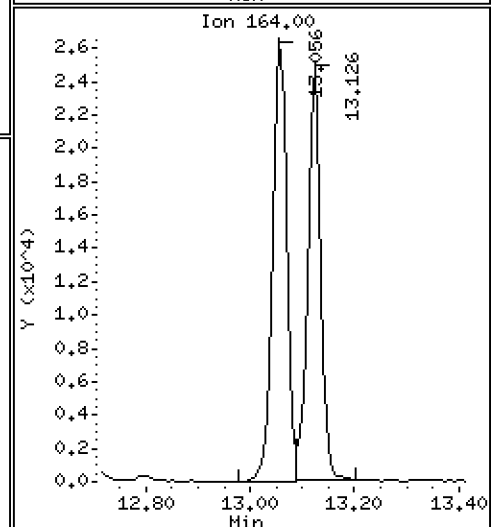
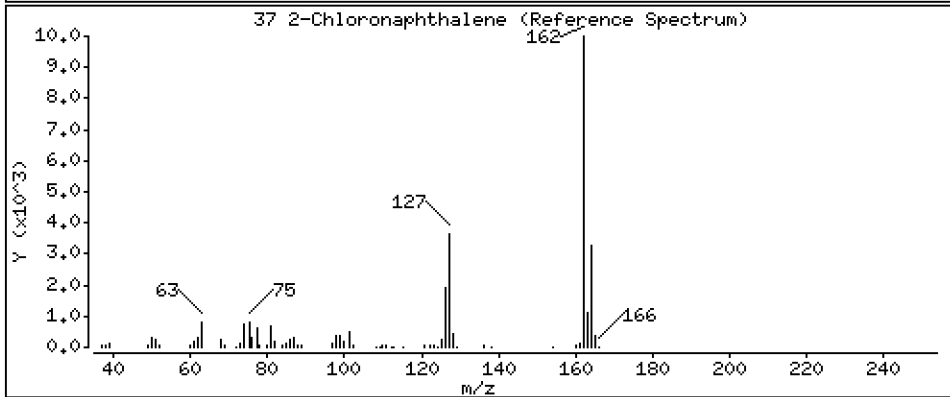
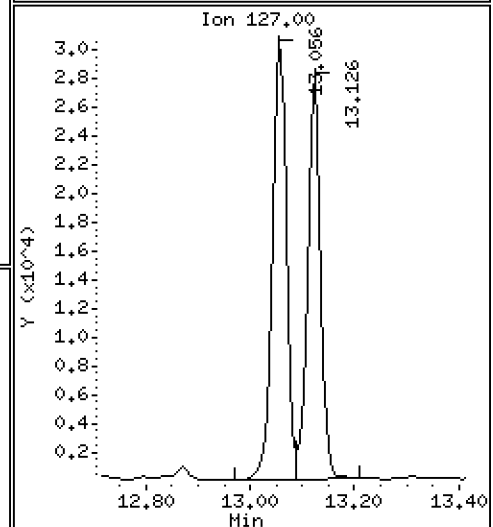
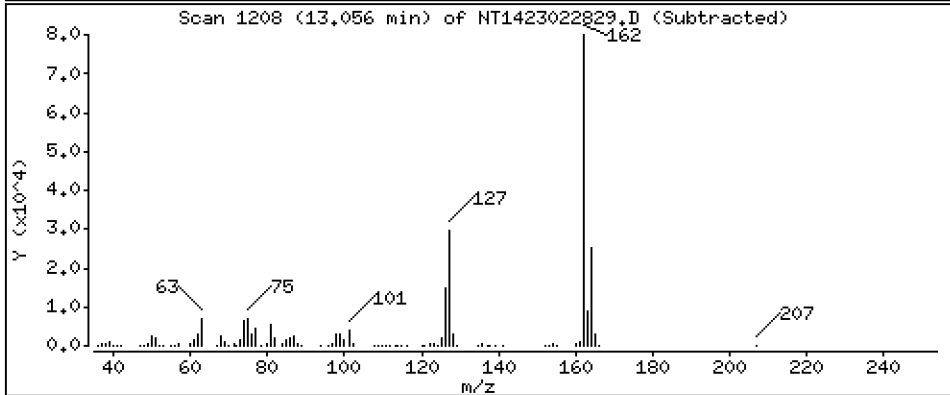
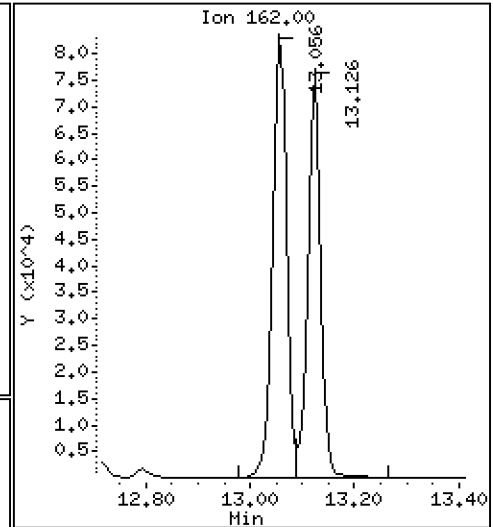
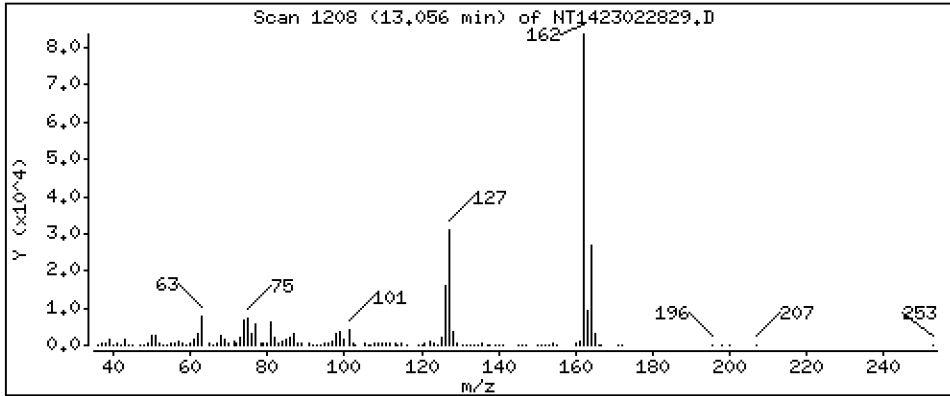
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

37 2-Chloronaphthalene

Concentration: 1,927 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

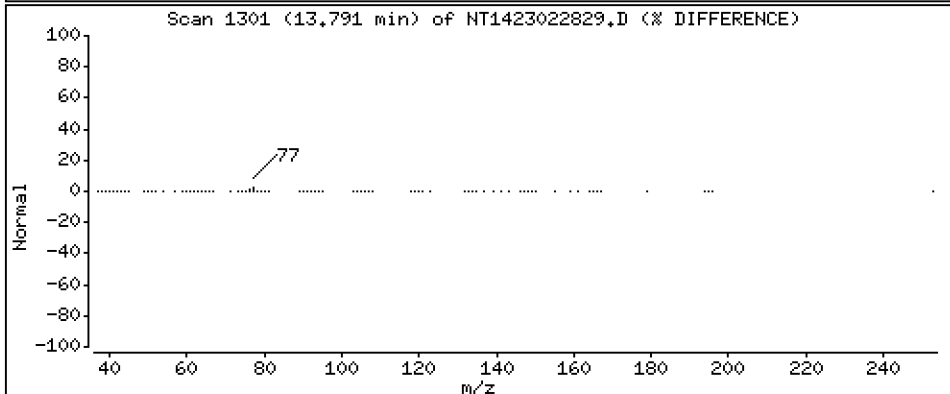
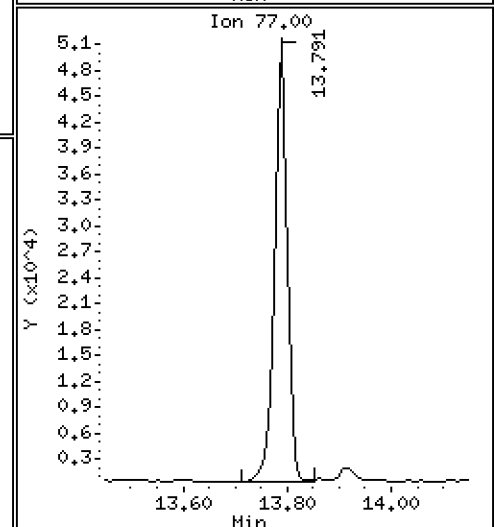
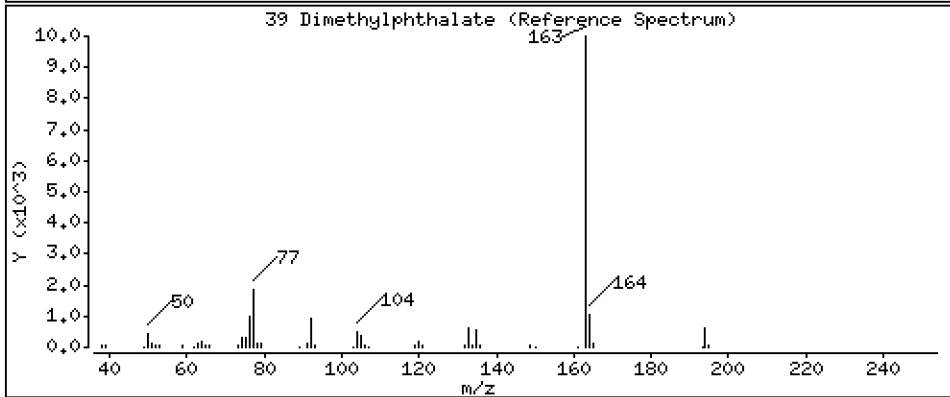
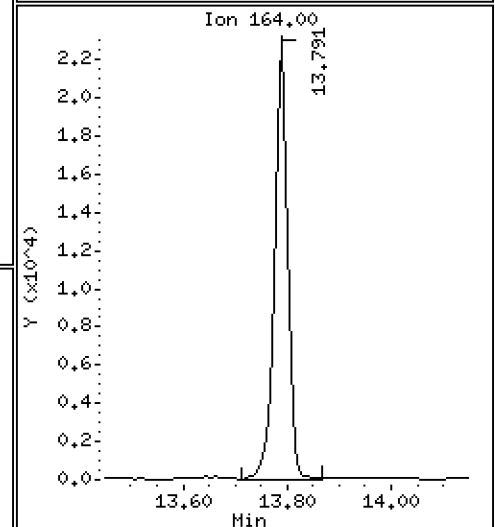
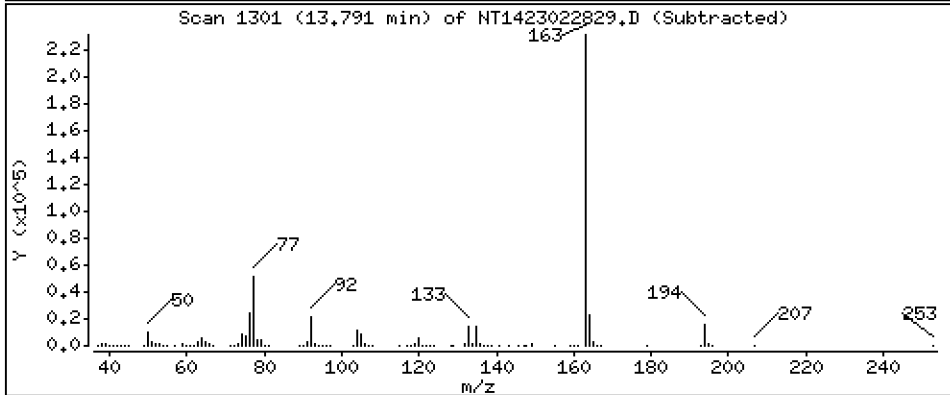
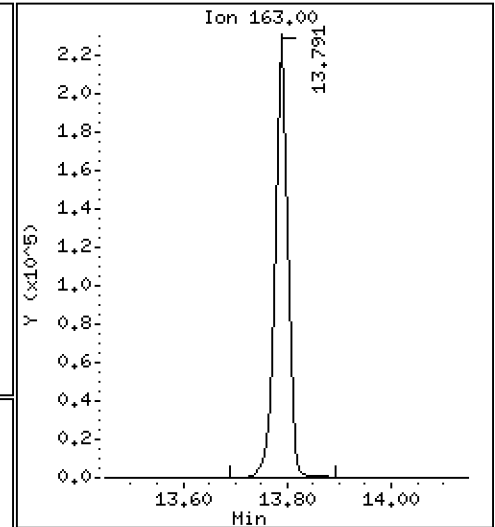
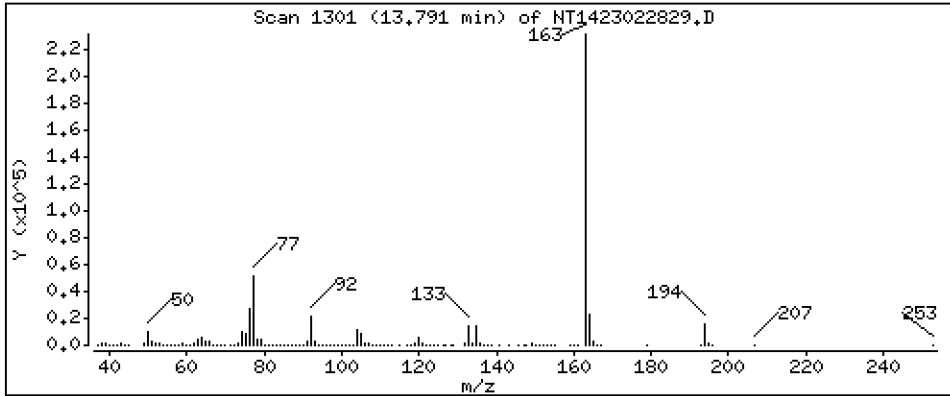
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 5,364 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

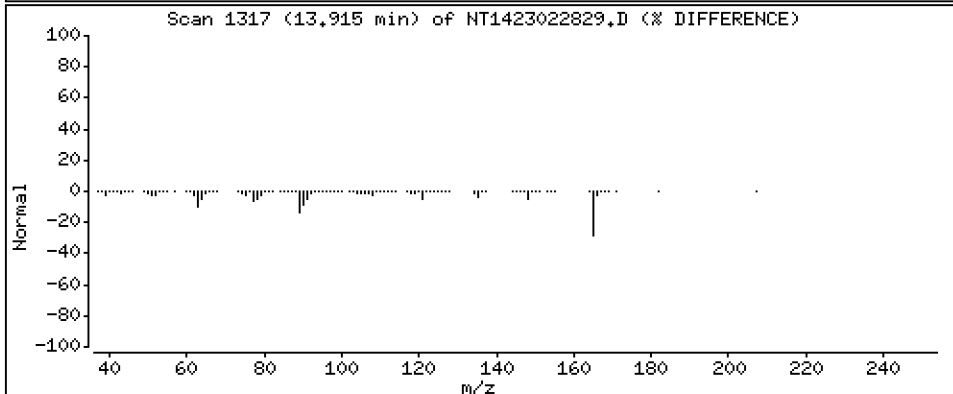
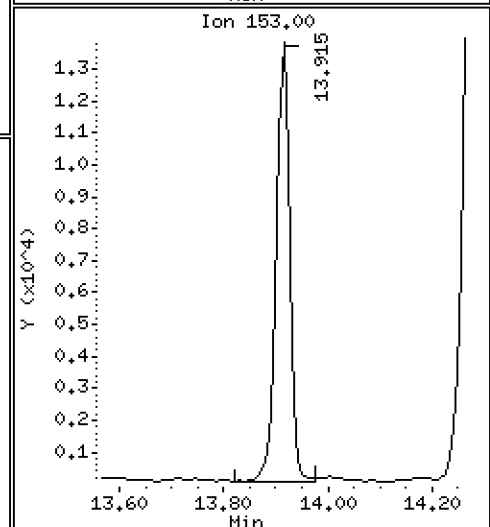
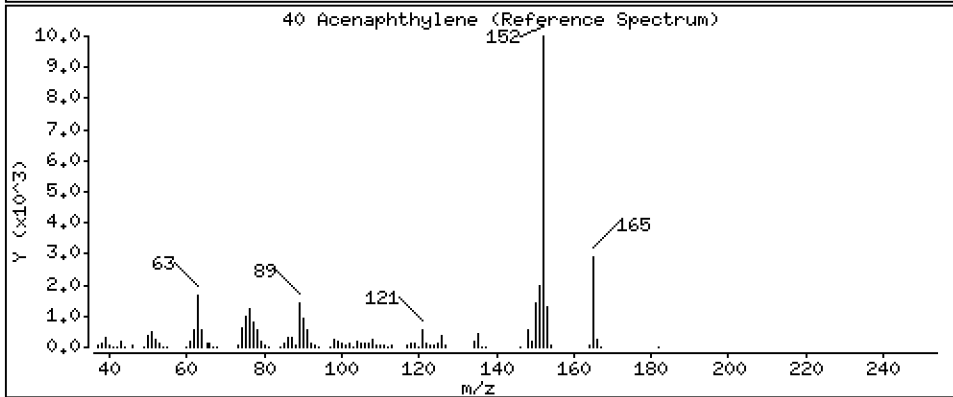
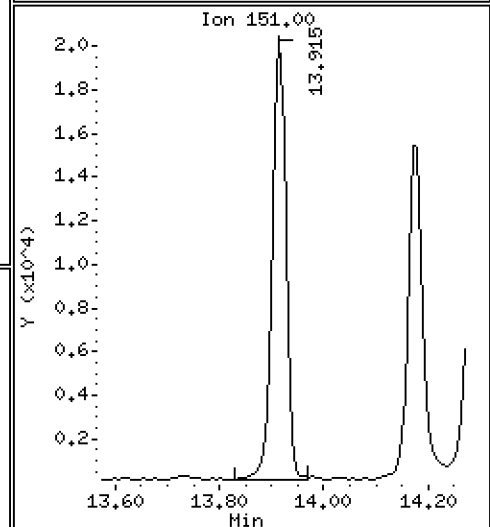
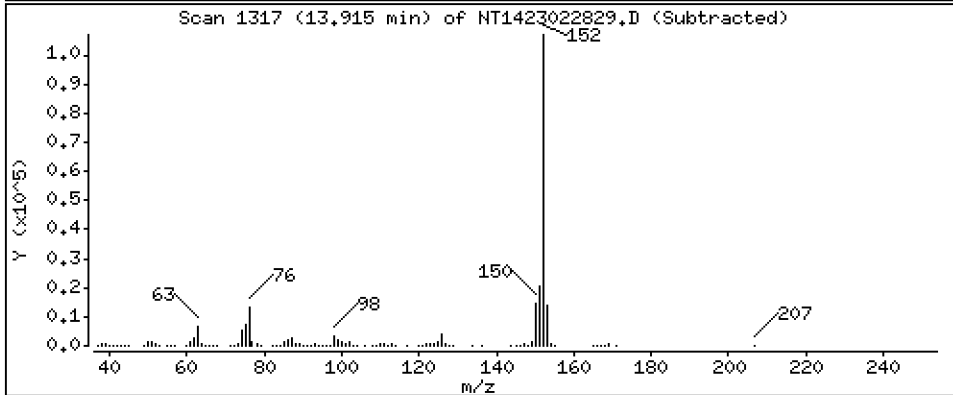
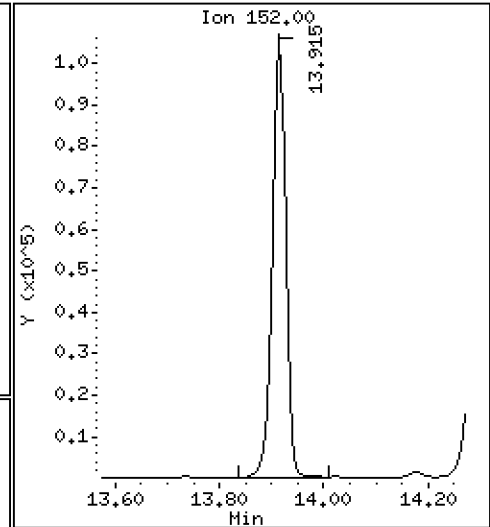
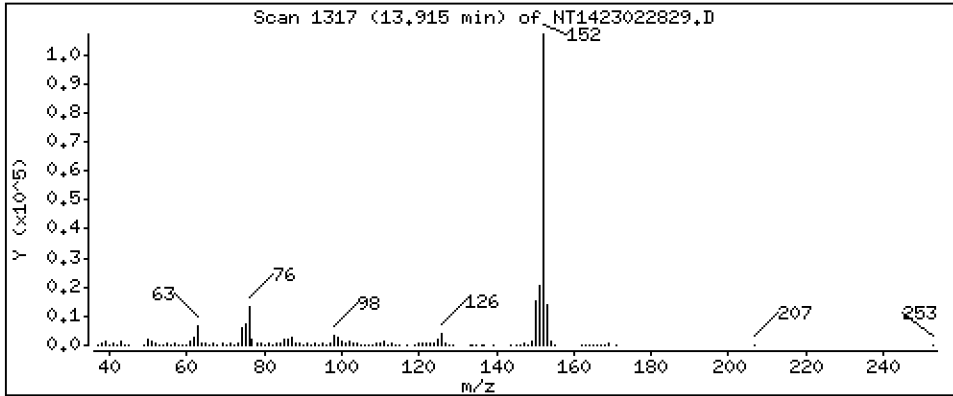
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 1,594 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

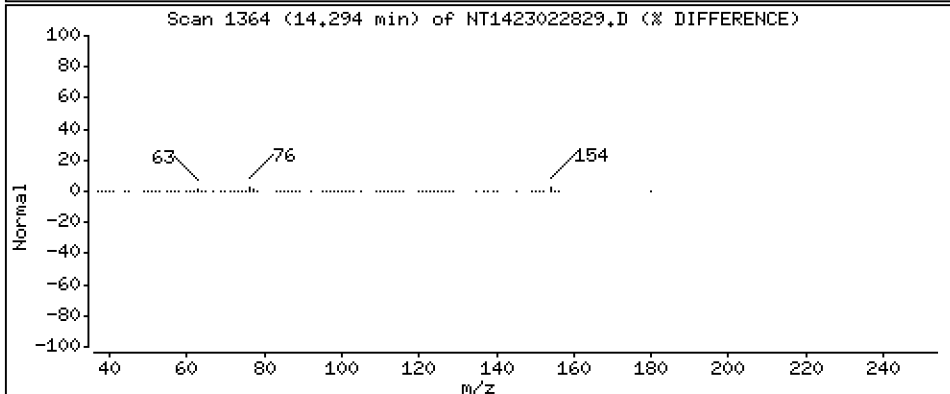
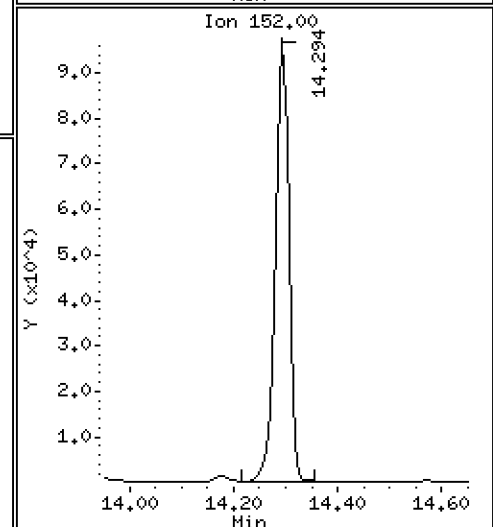
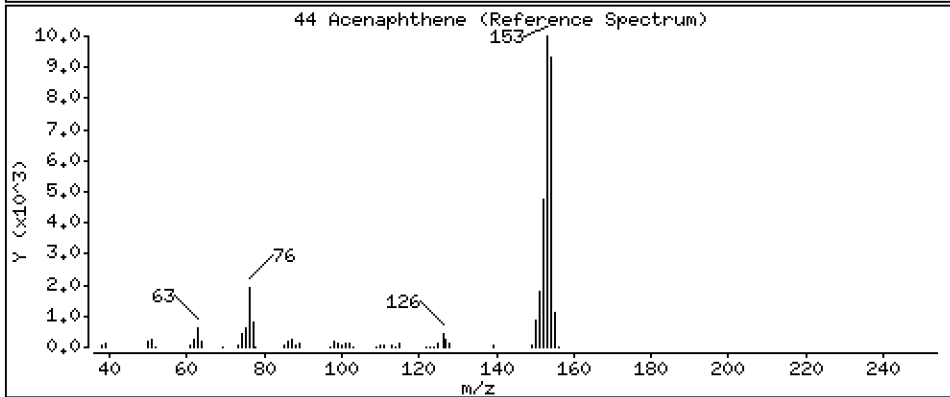
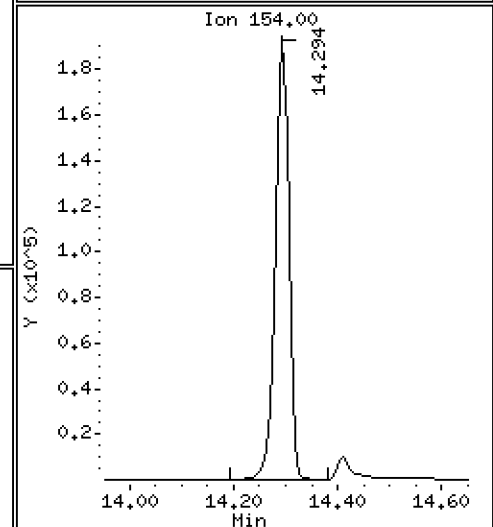
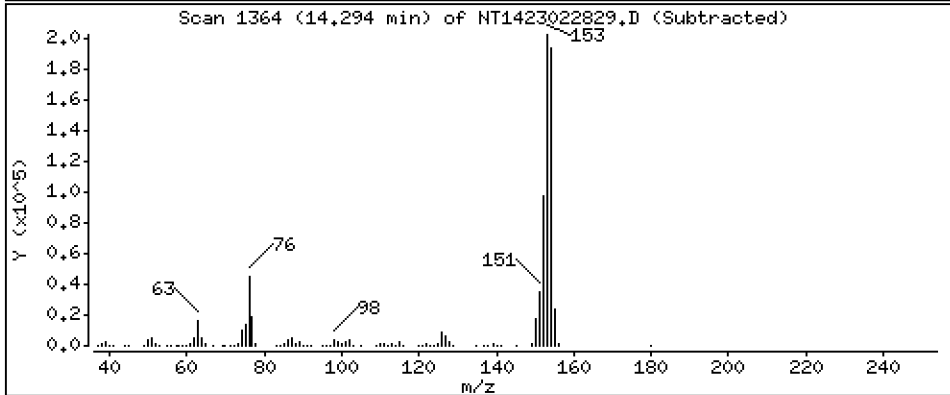
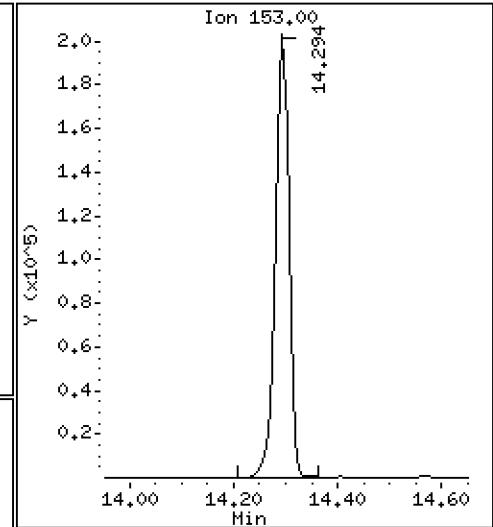
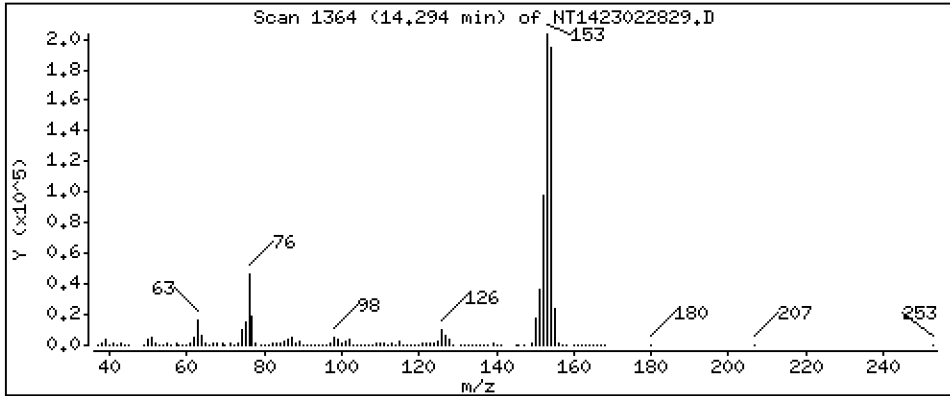
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 4,821 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

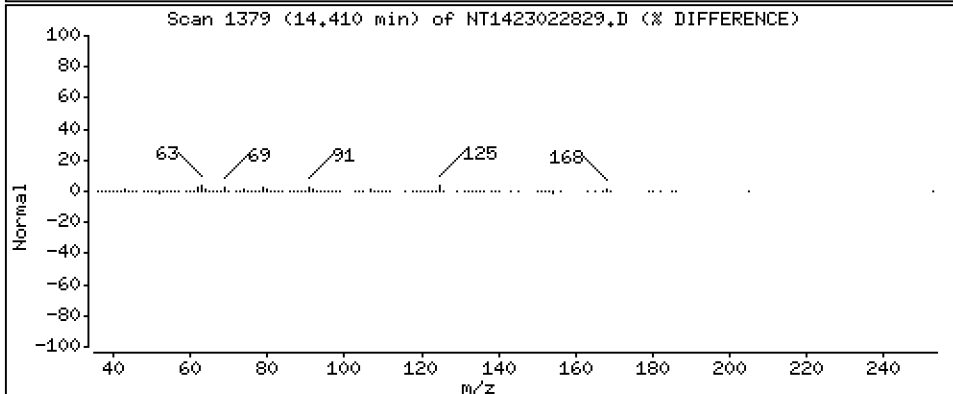
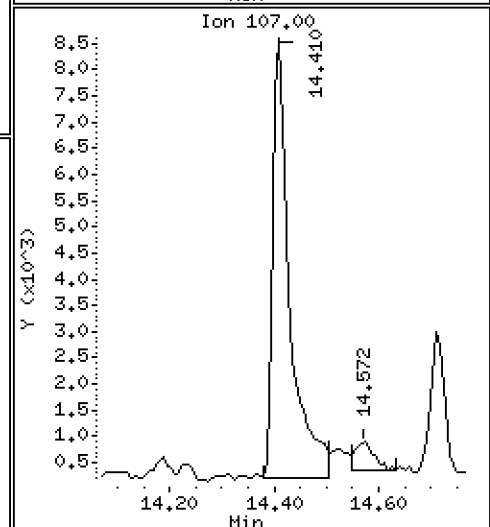
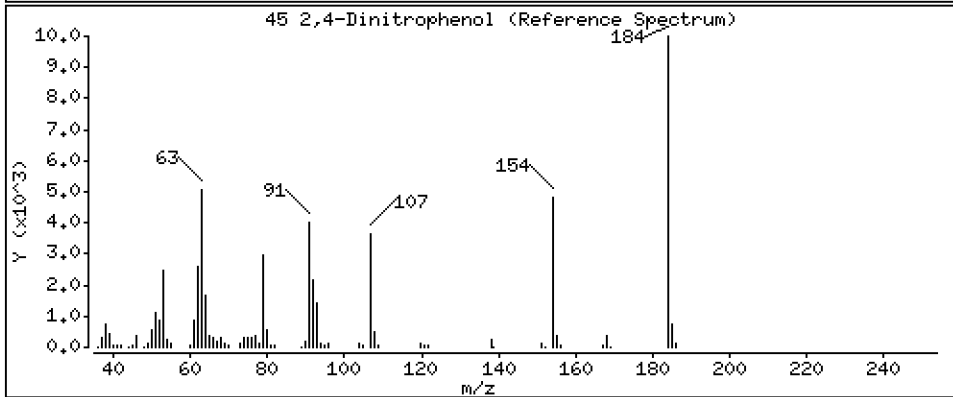
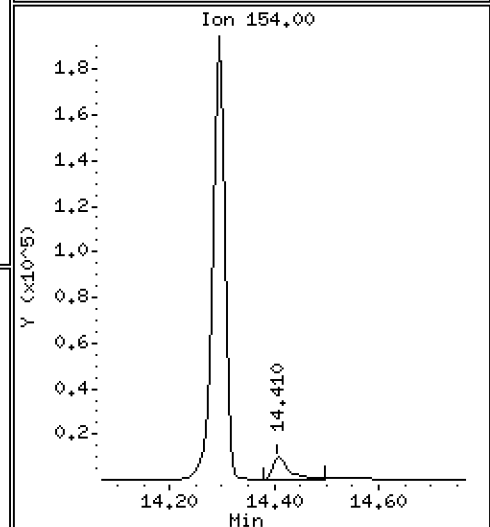
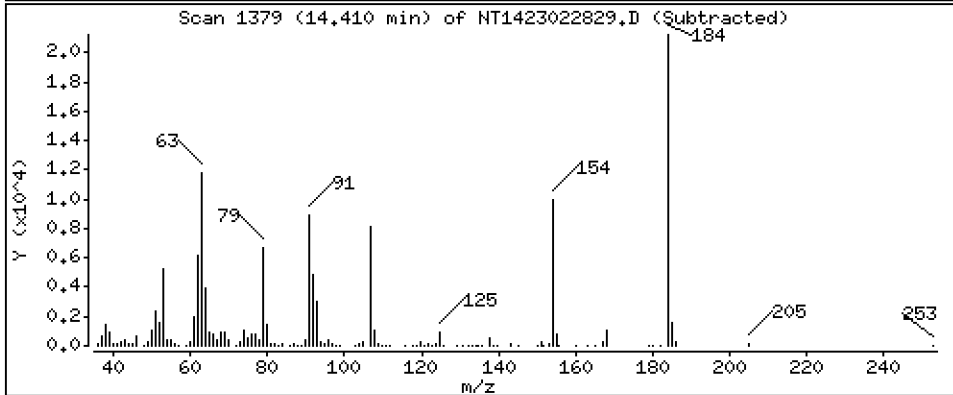
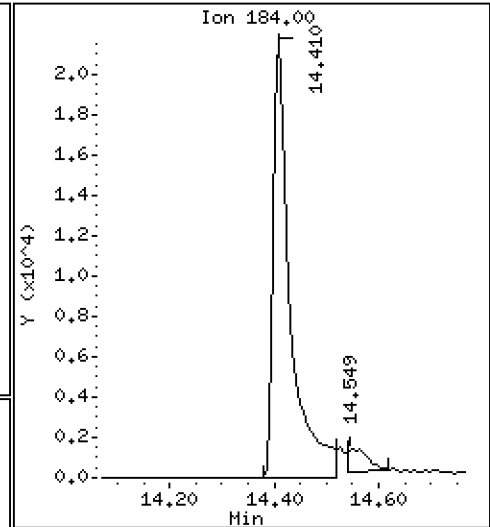
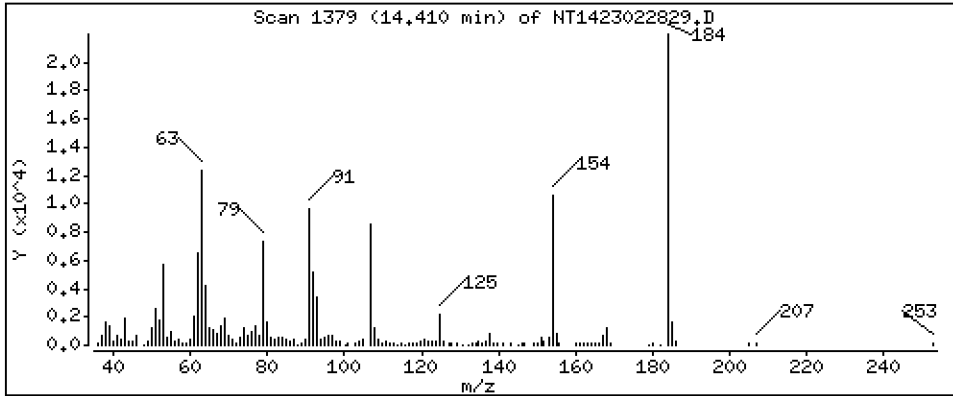
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

45 2,4-Dinitrophenol

Concentration: 4,163 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

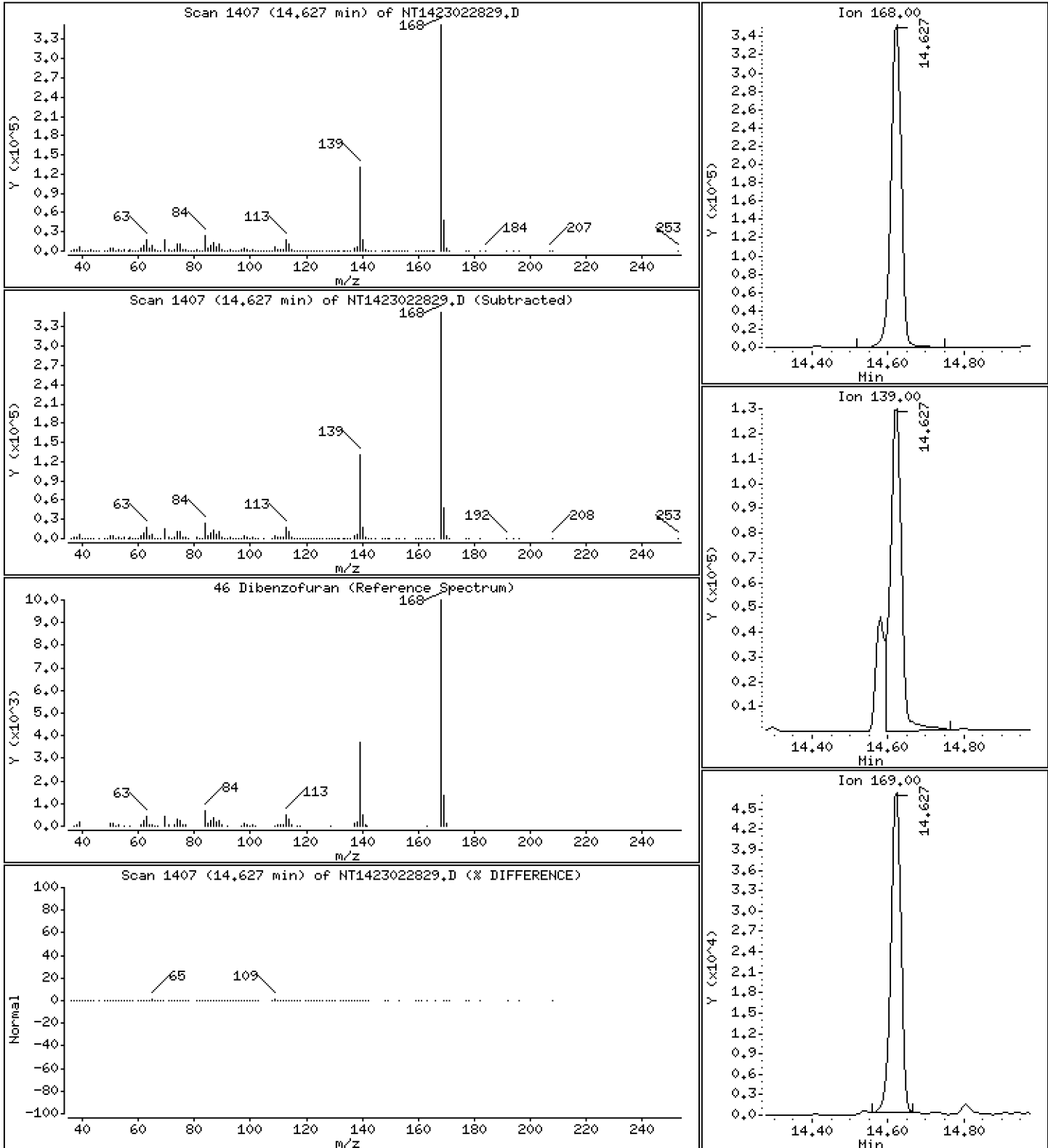
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 5,601 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

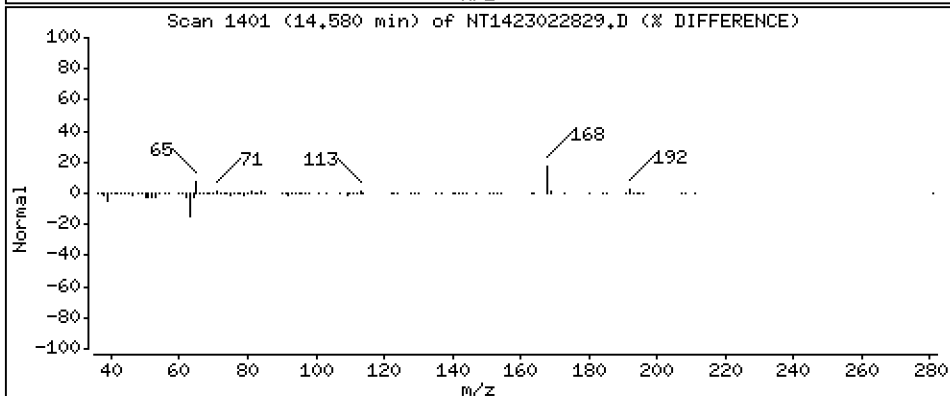
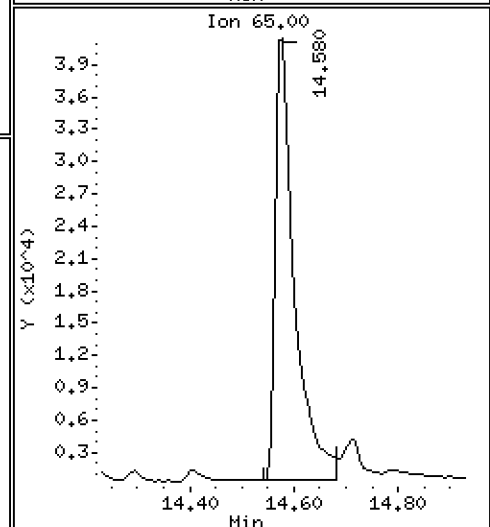
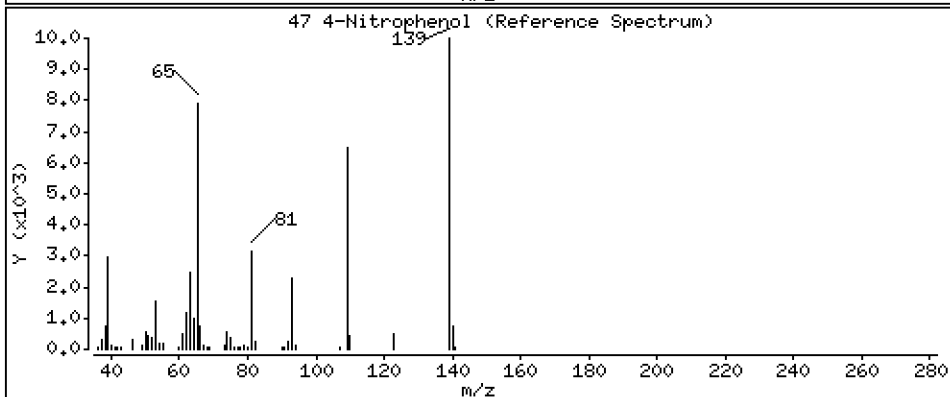
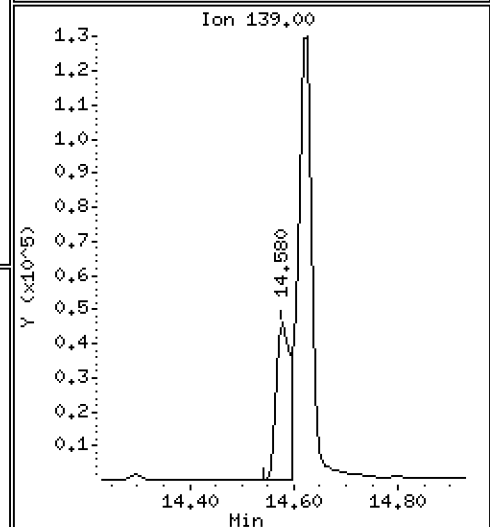
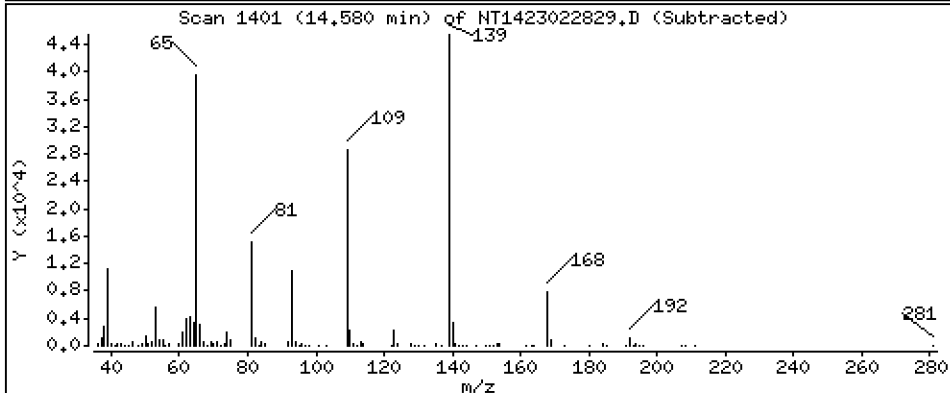
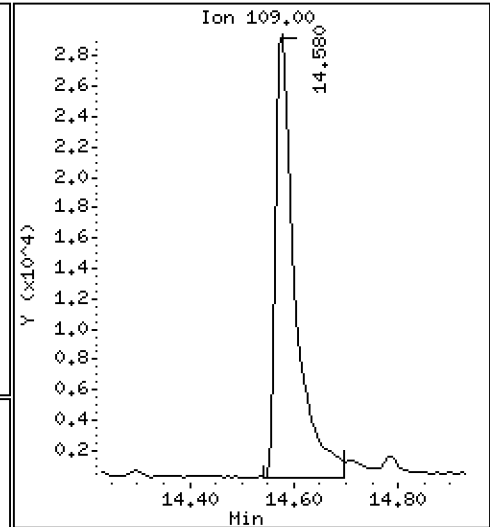
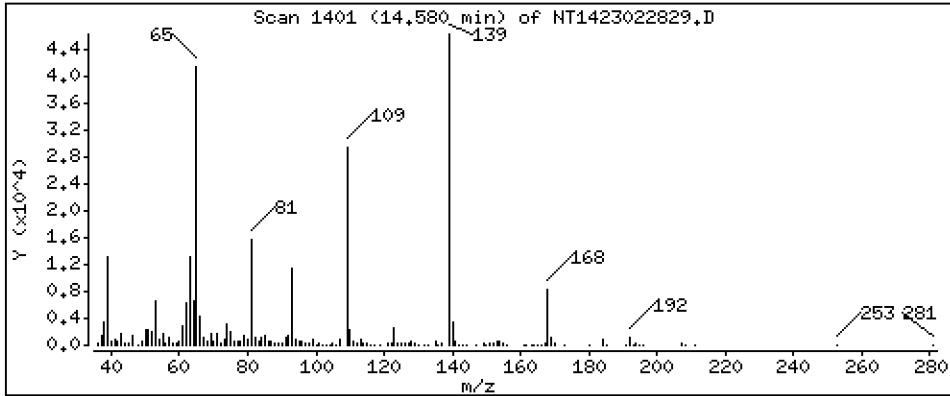
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

47 4-Nitrophenol

Concentration: 7,904 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

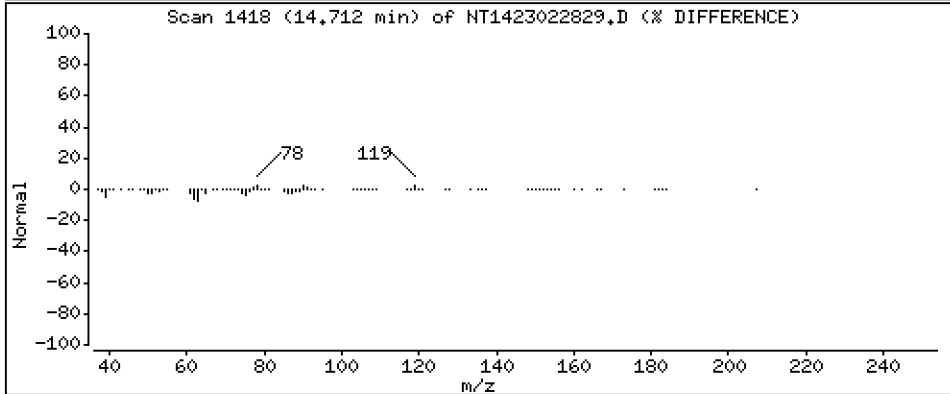
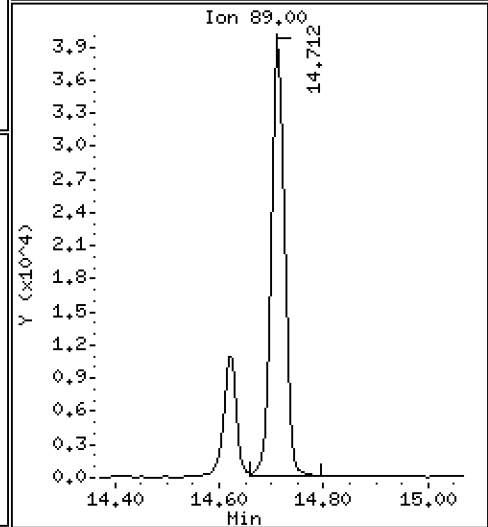
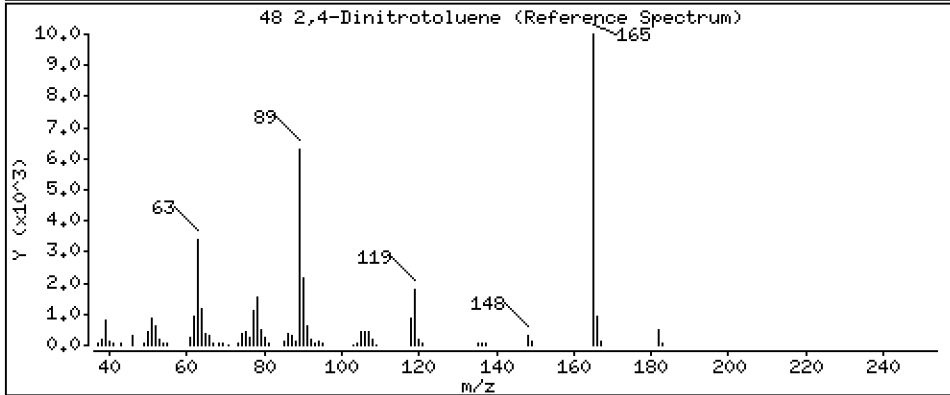
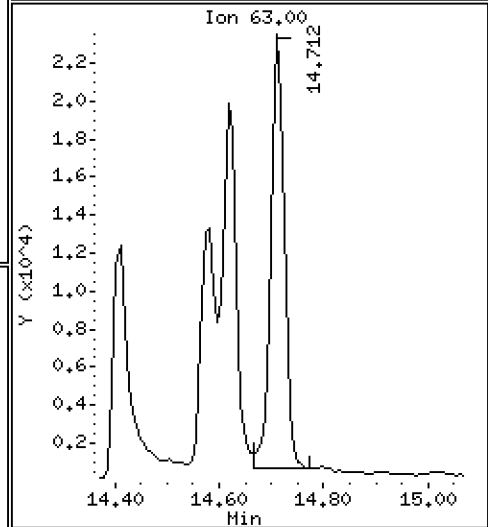
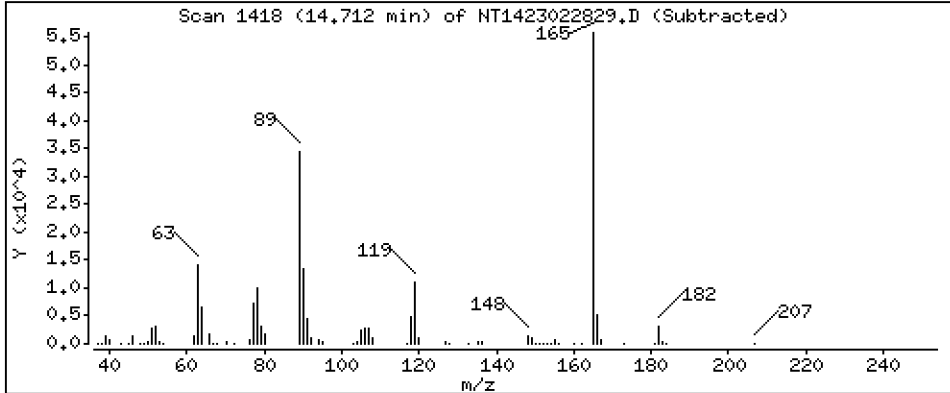
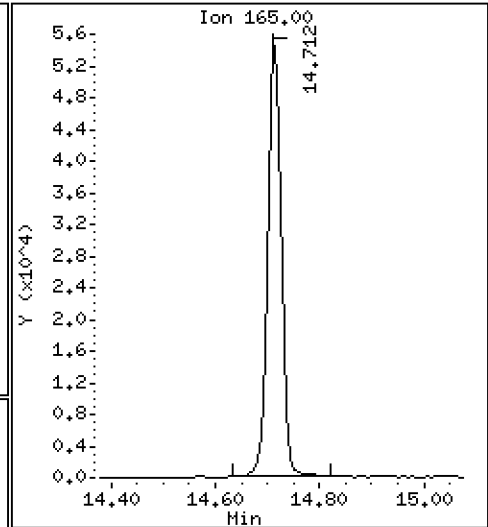
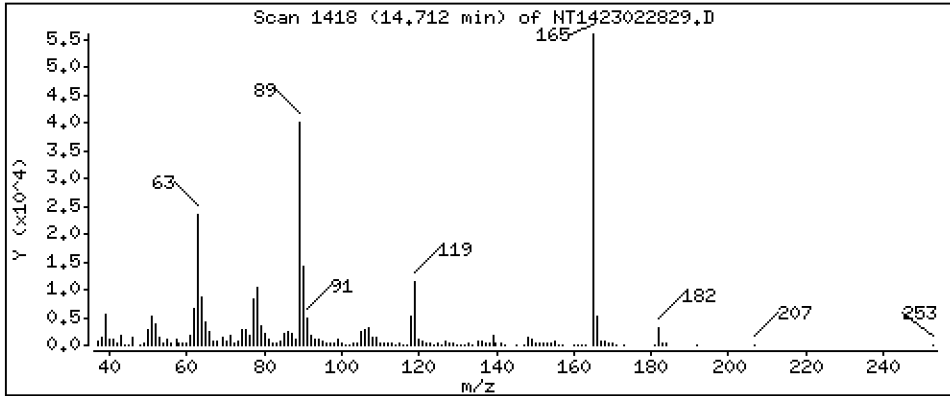
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

48 2,4-Dinitrotoluene

Concentration: 3,680 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

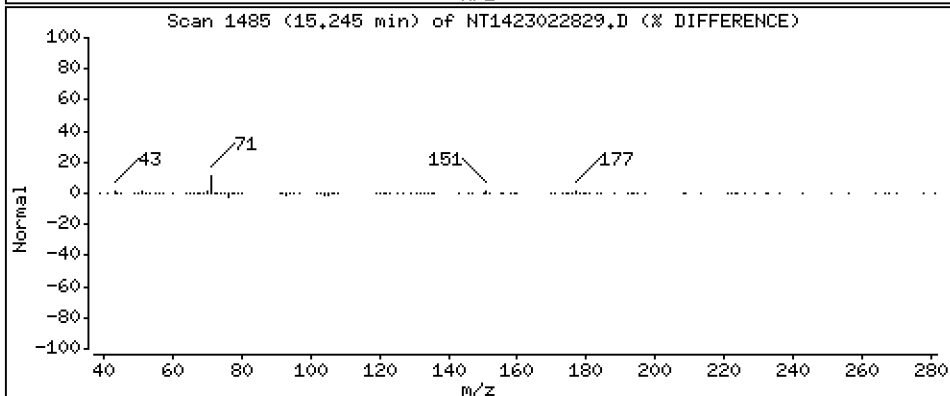
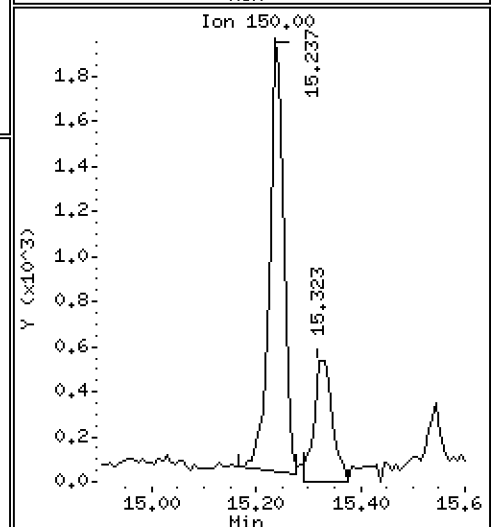
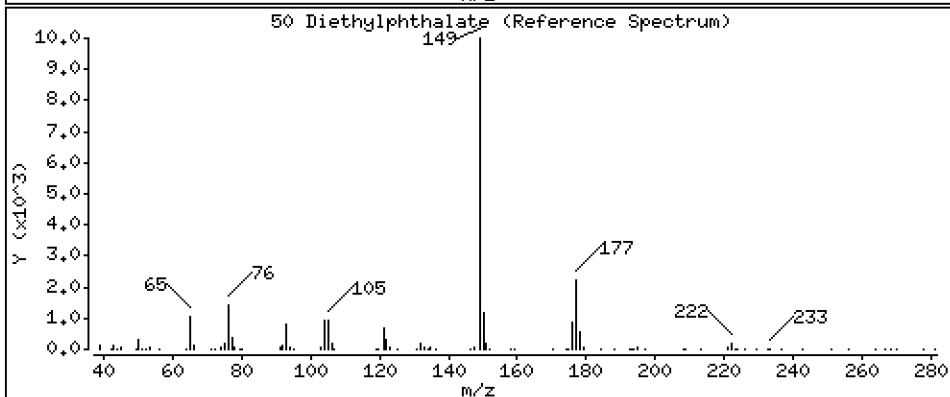
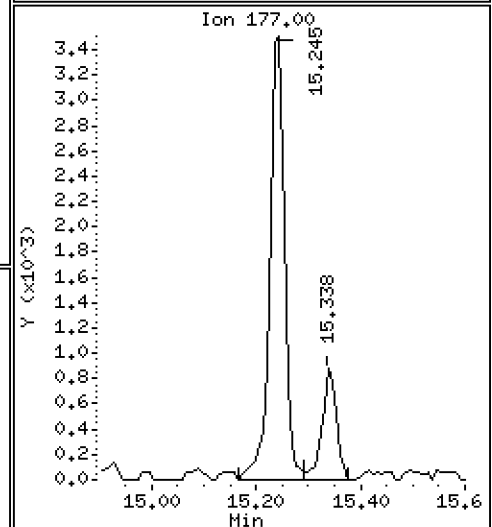
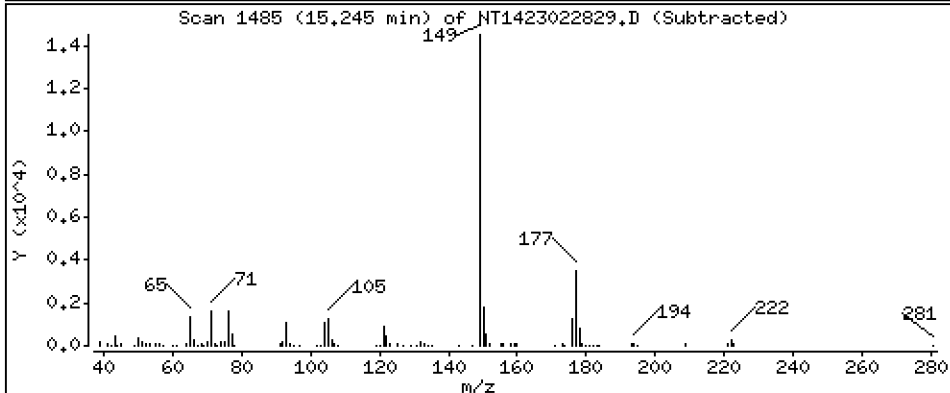
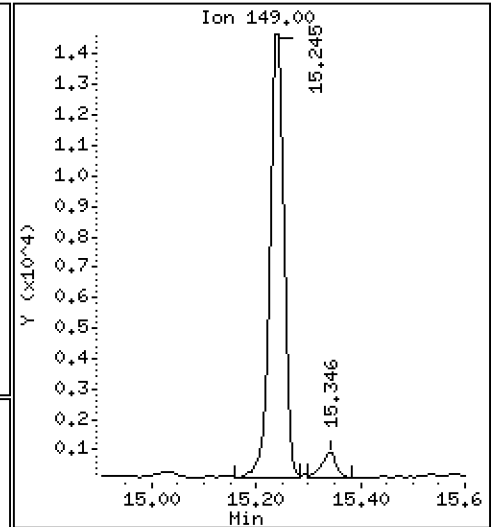
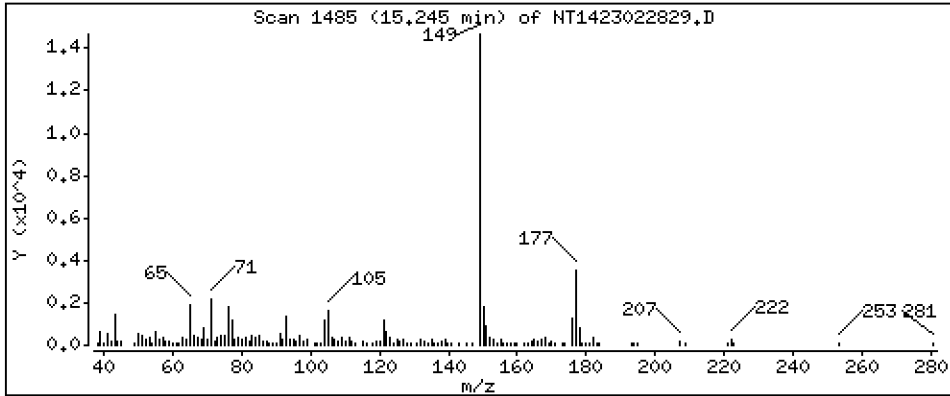
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 0,3633 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

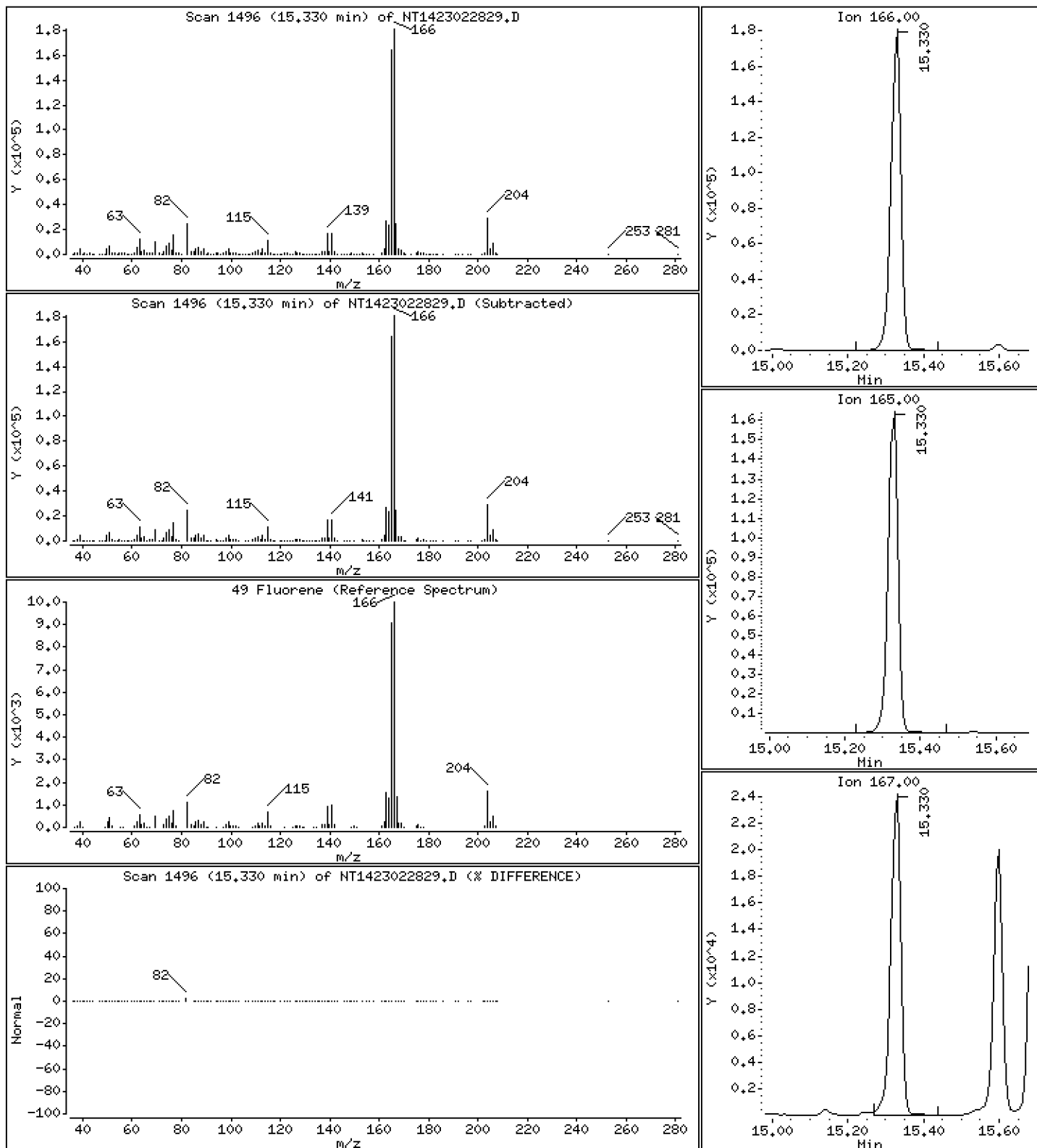
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 3,530 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

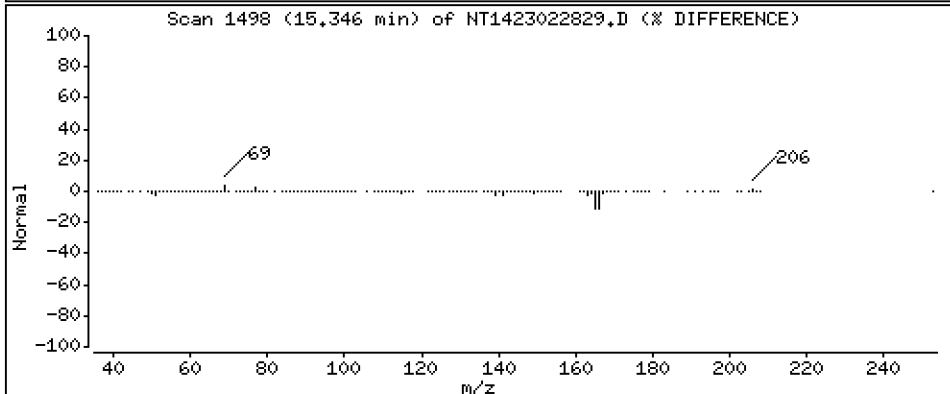
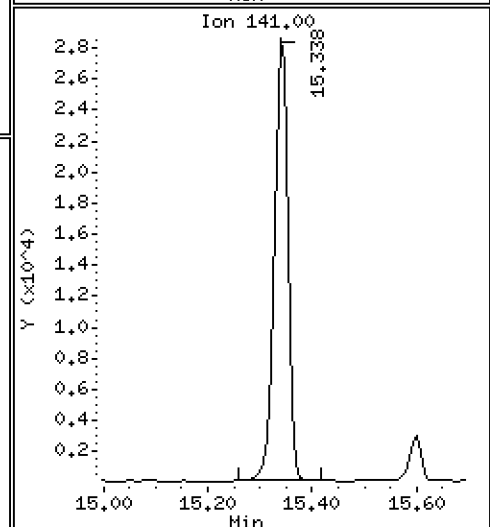
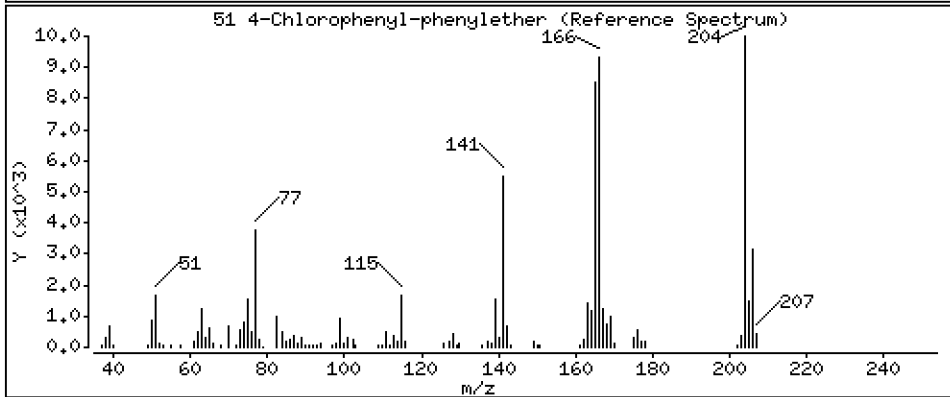
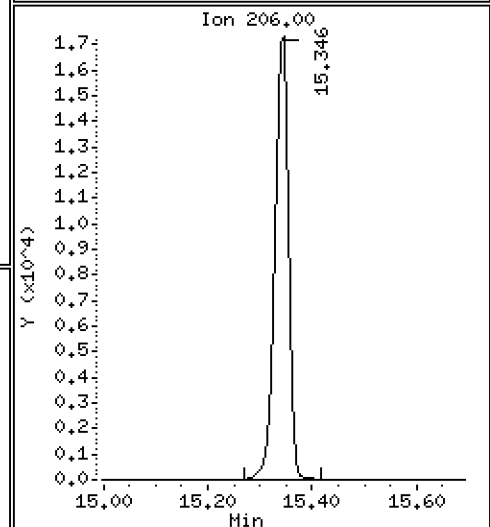
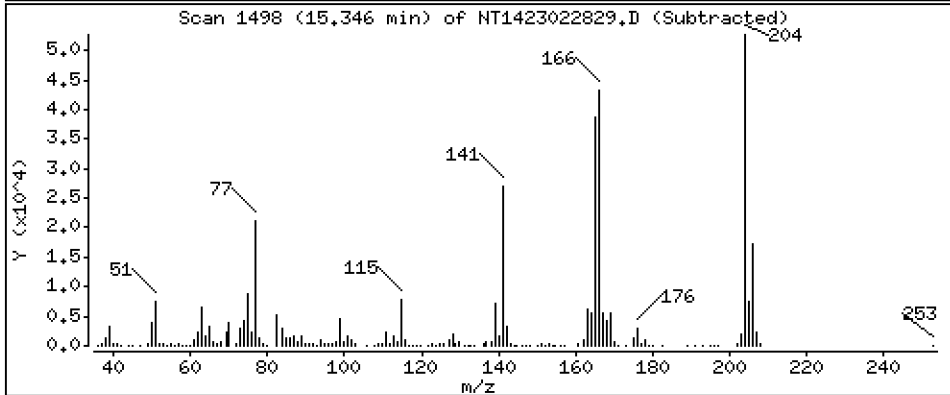
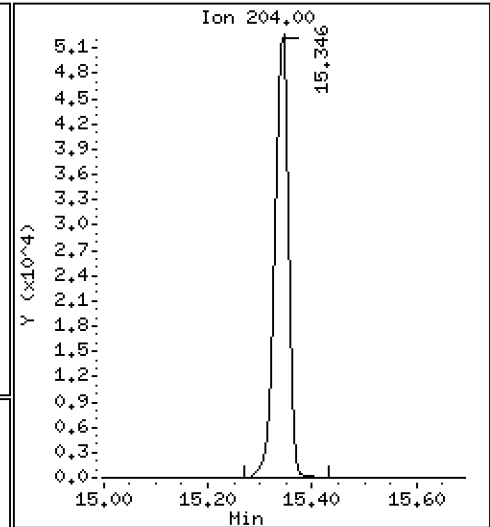
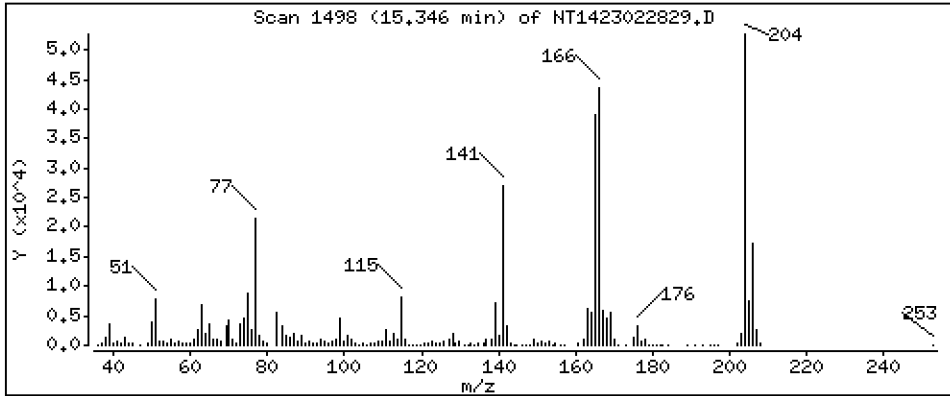
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 1,990 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

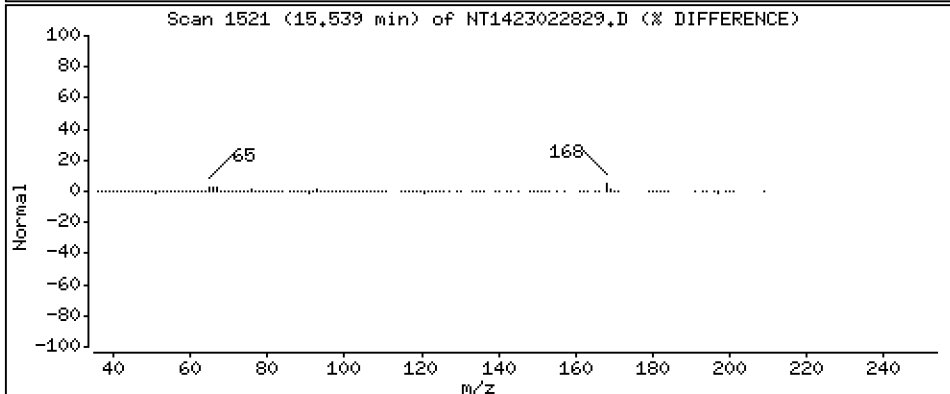
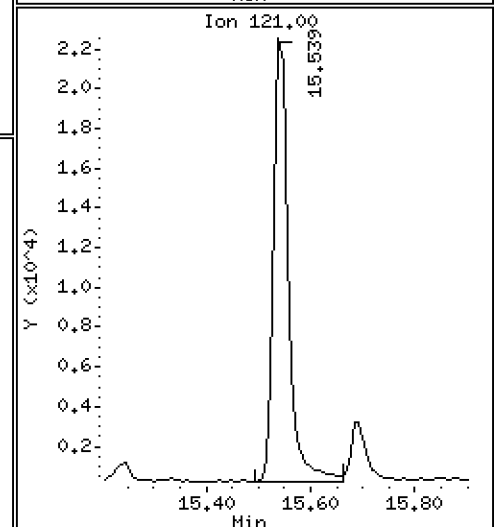
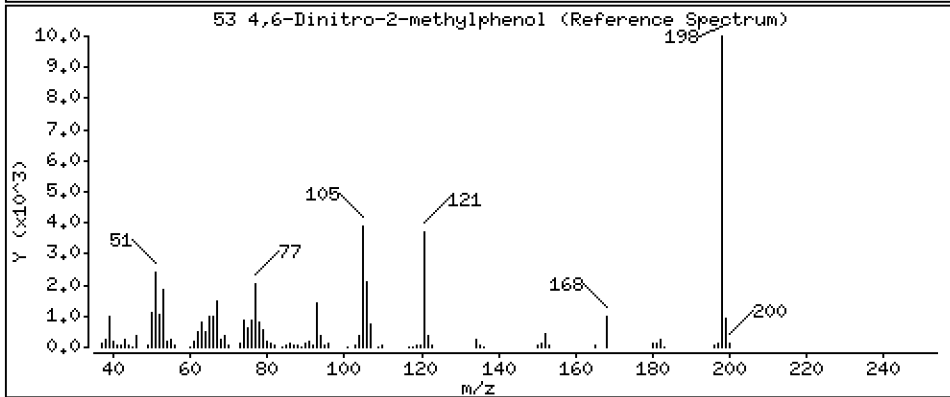
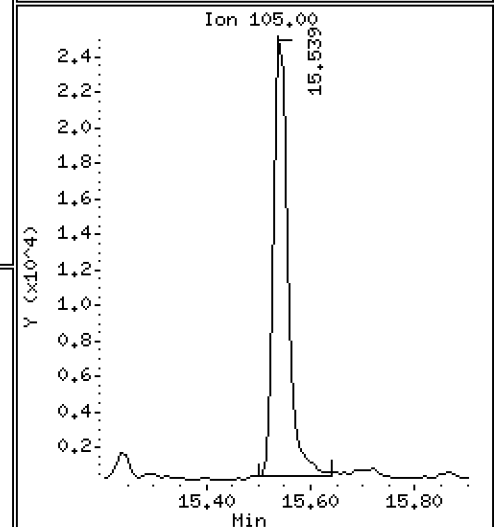
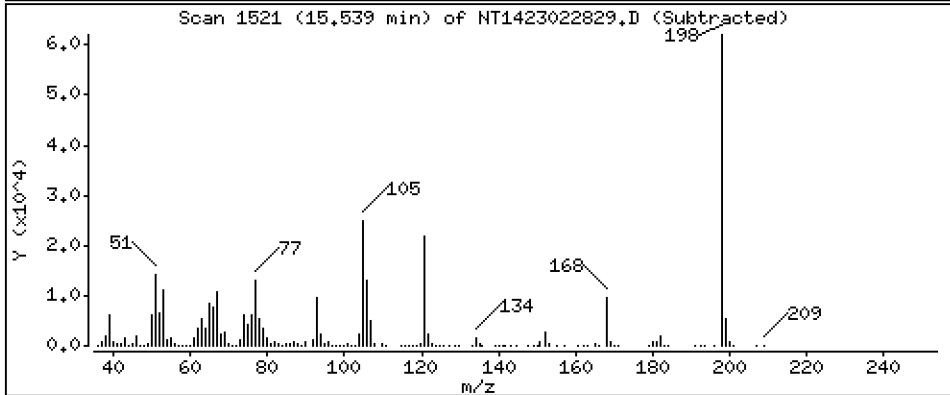
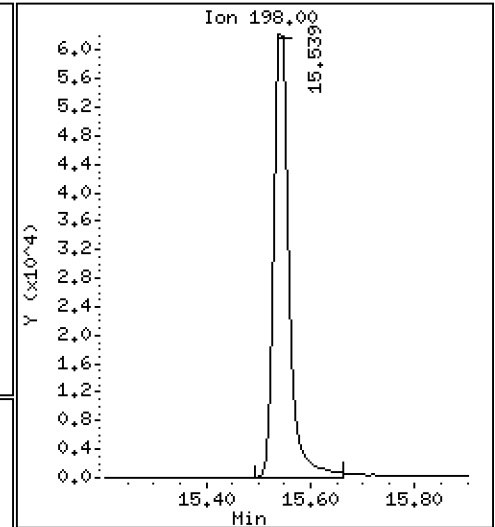
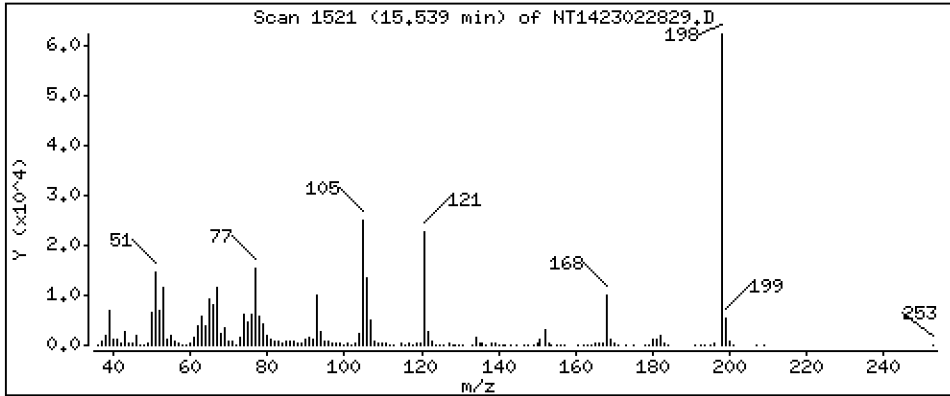
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

53 4,6-Dinitro-2-methylphenol

Concentration: 7,637 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

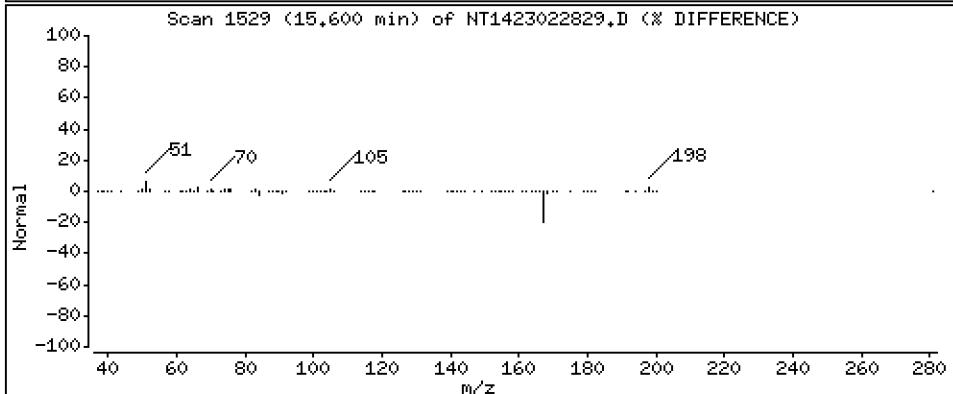
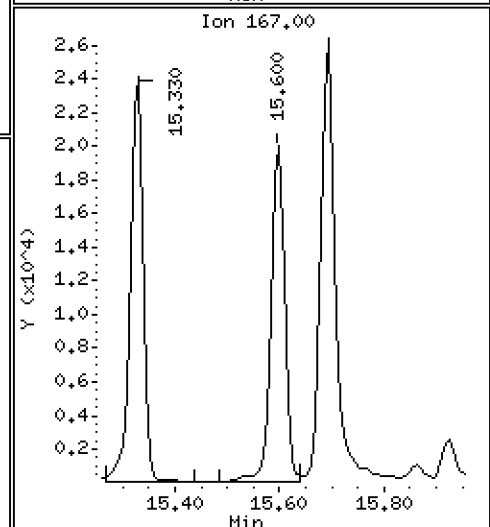
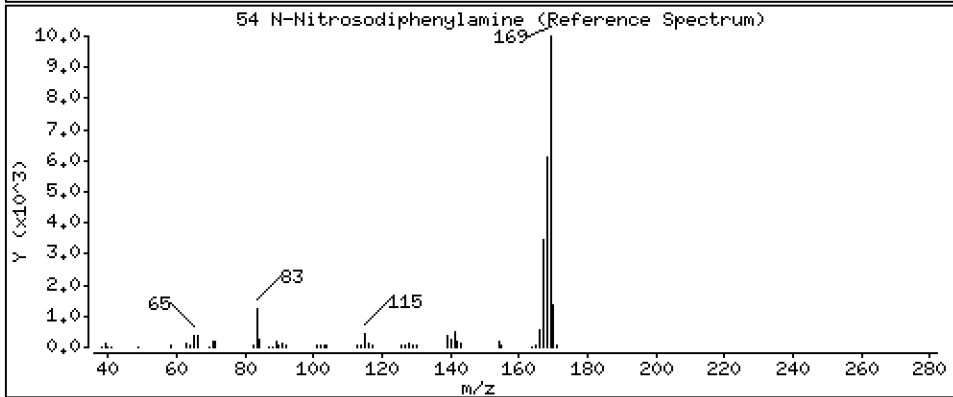
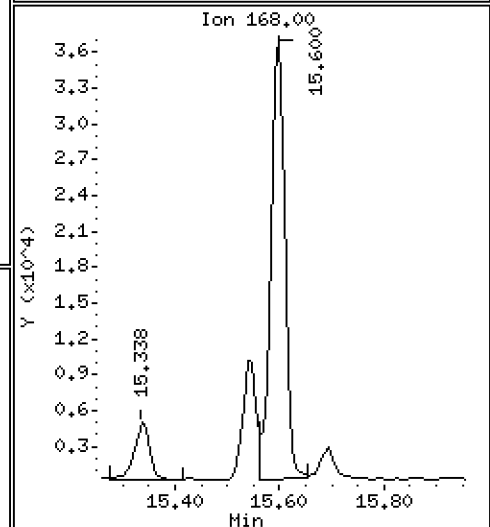
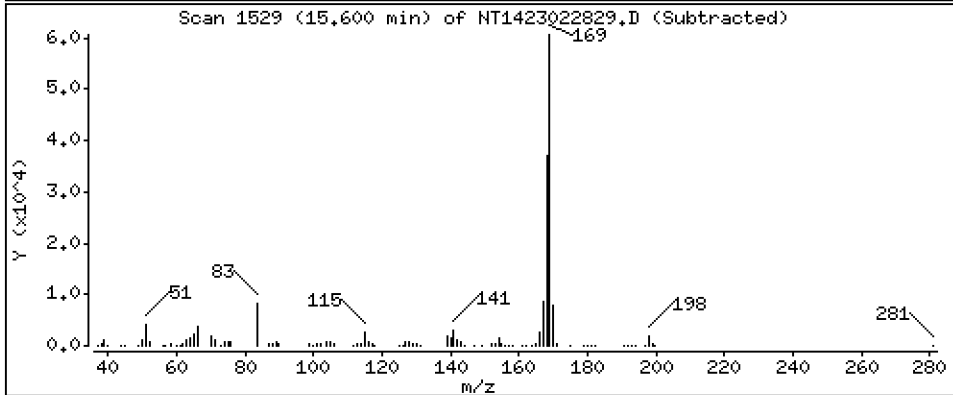
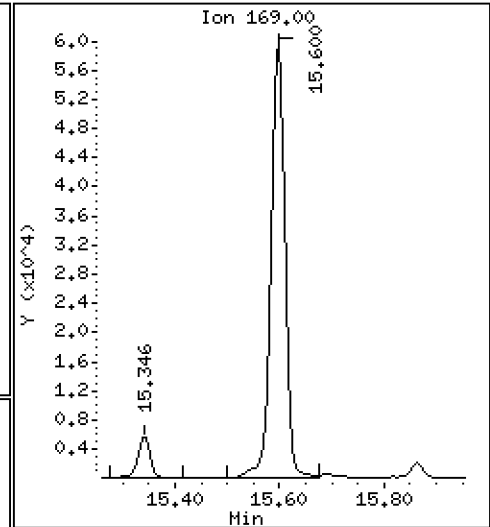
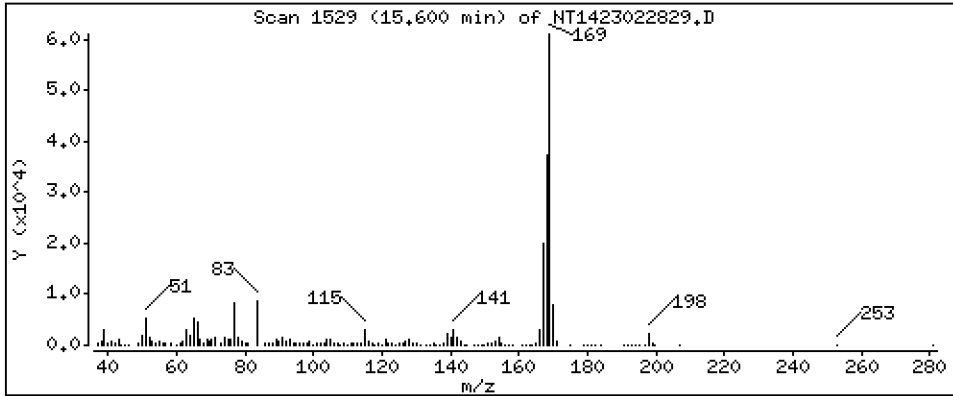
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

54 N-Nitrosodiphenylamine

Concentration: 1,779 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

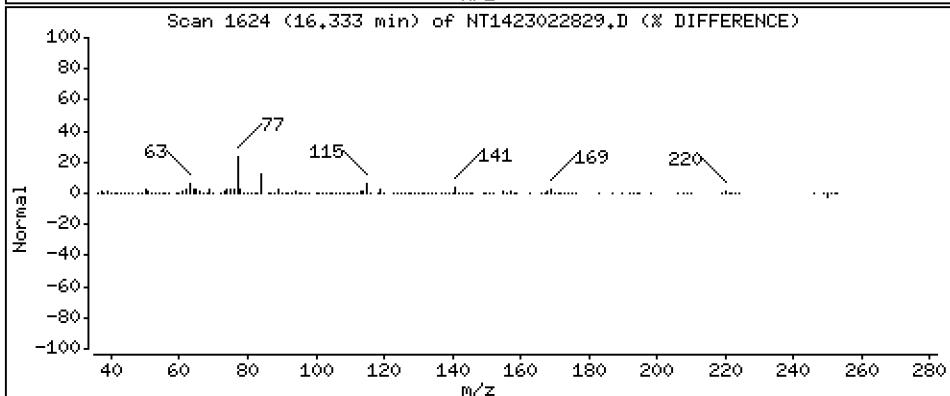
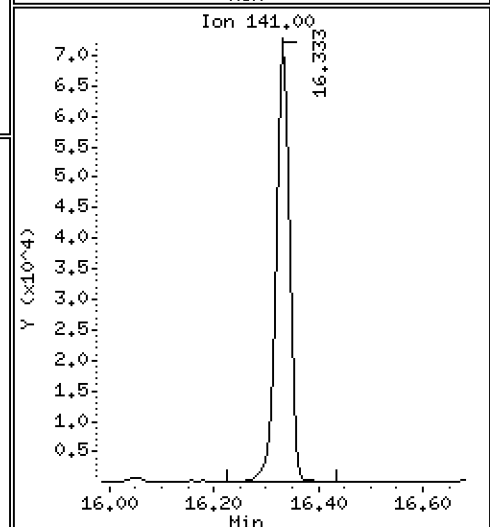
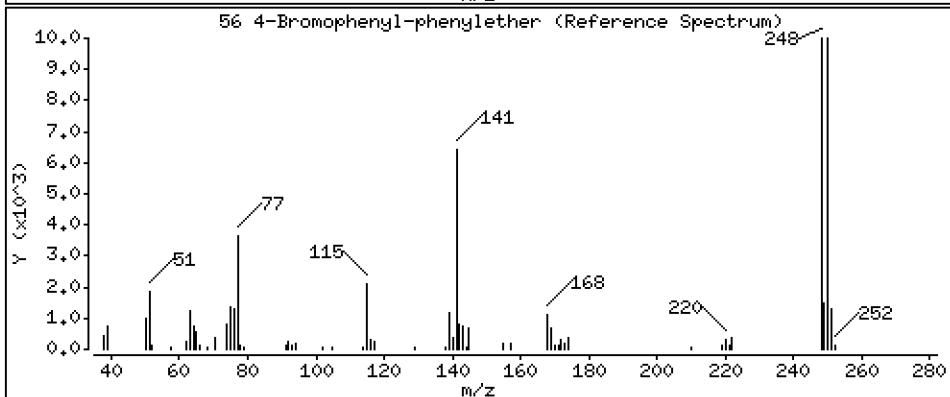
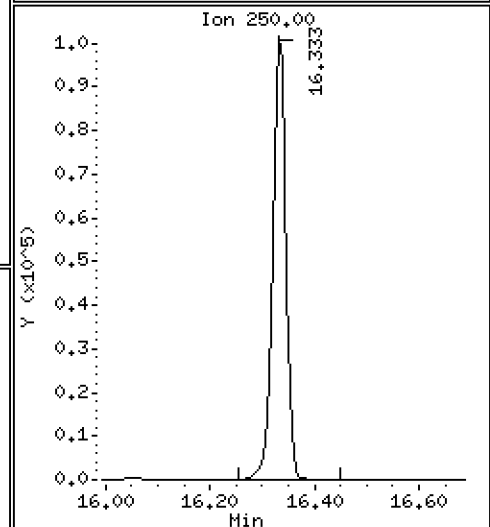
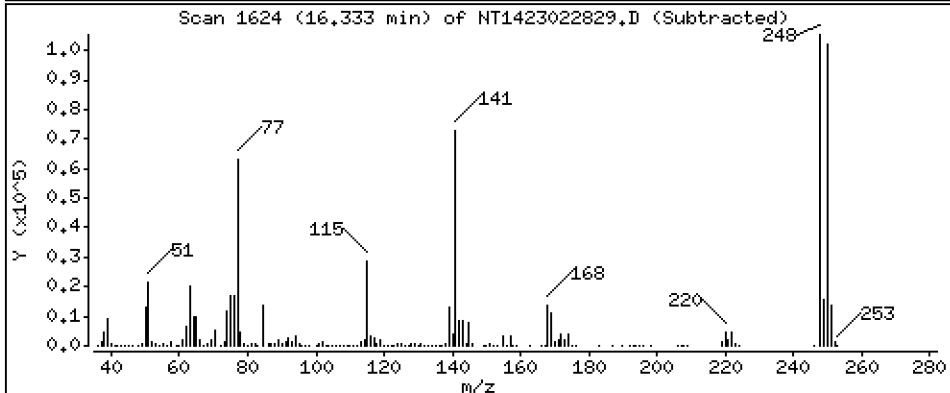
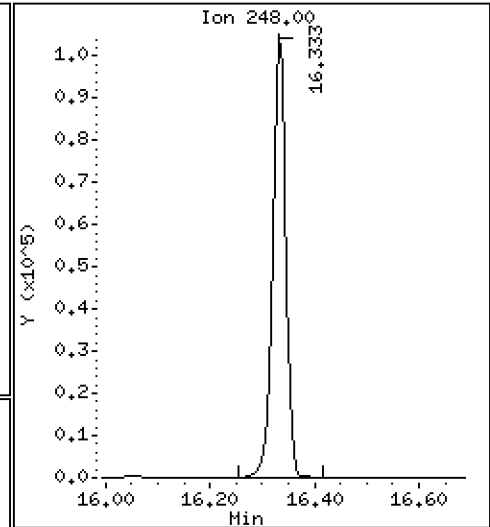
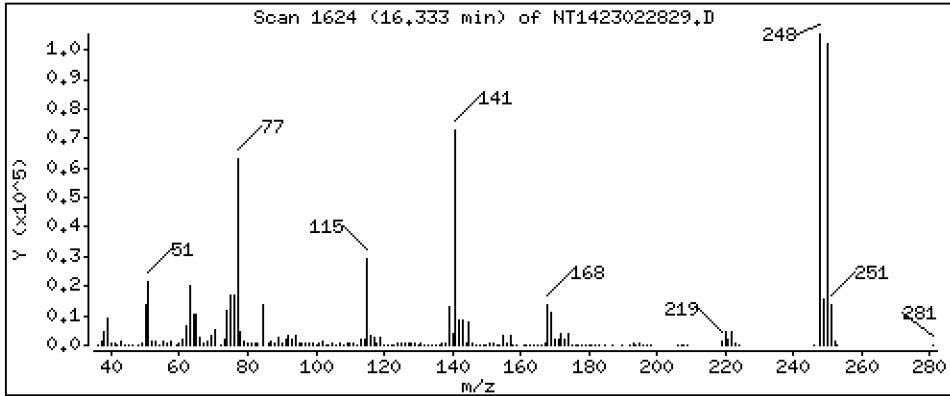
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 7,061 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

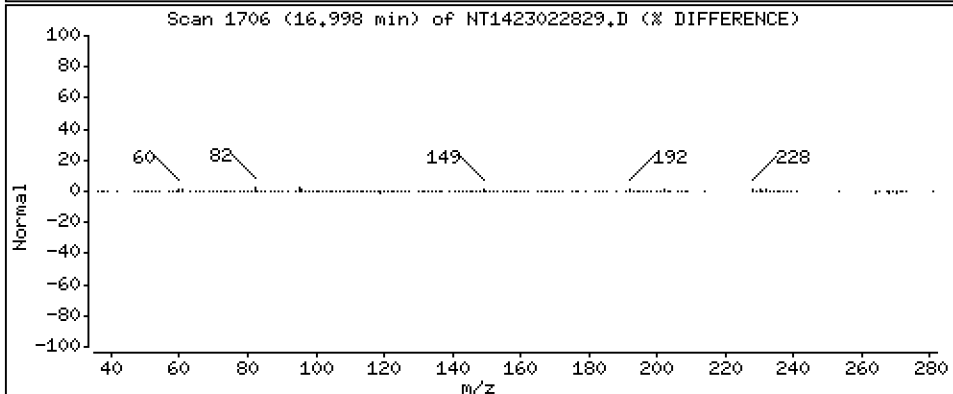
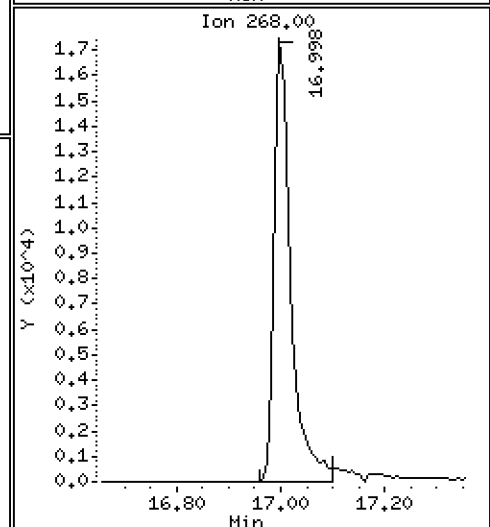
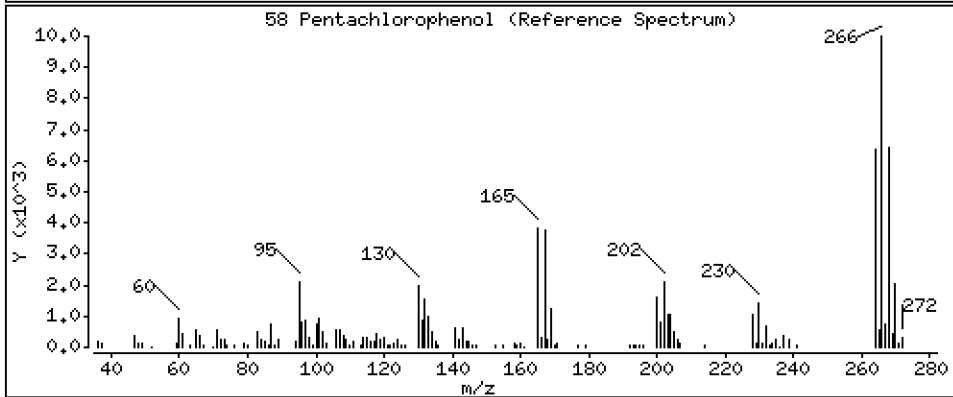
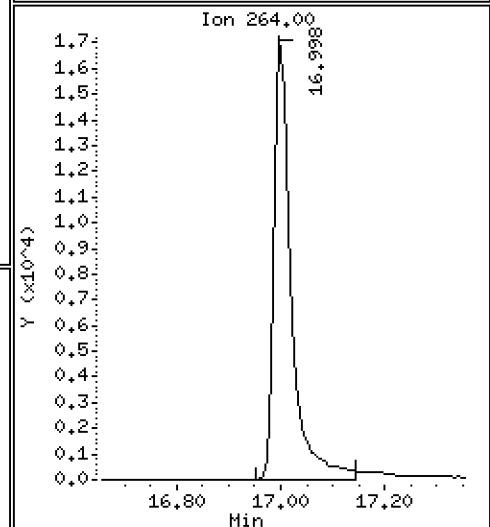
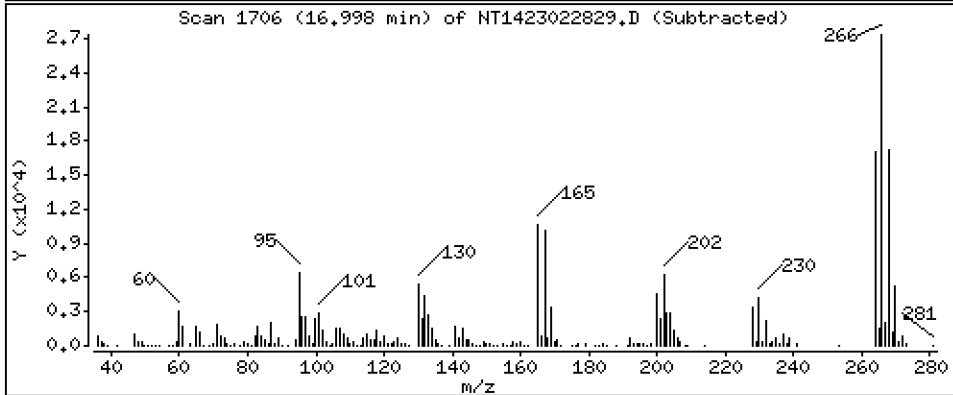
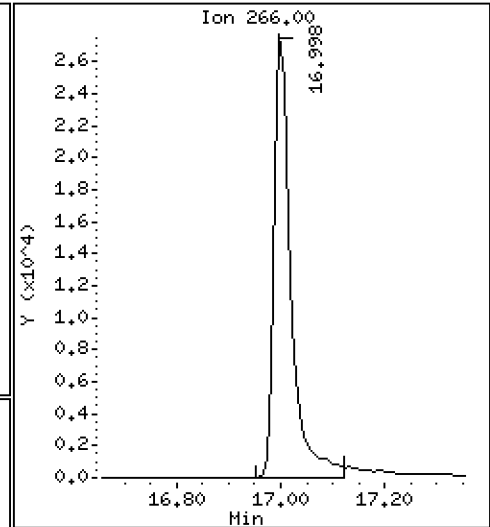
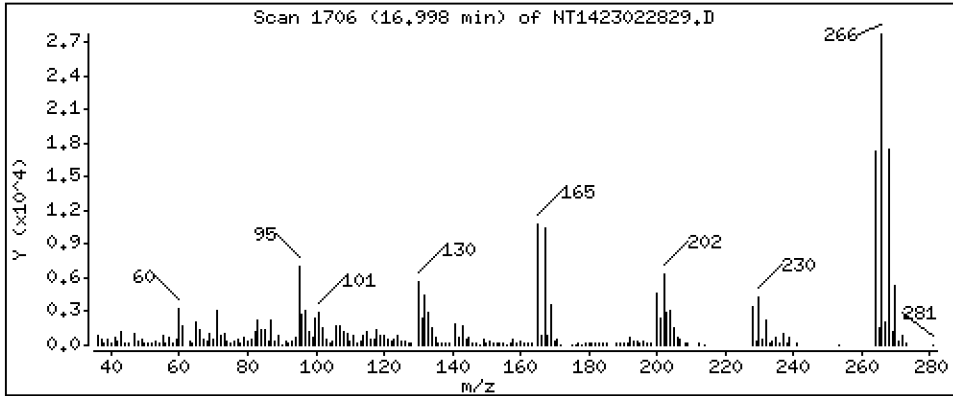
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 4,353 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

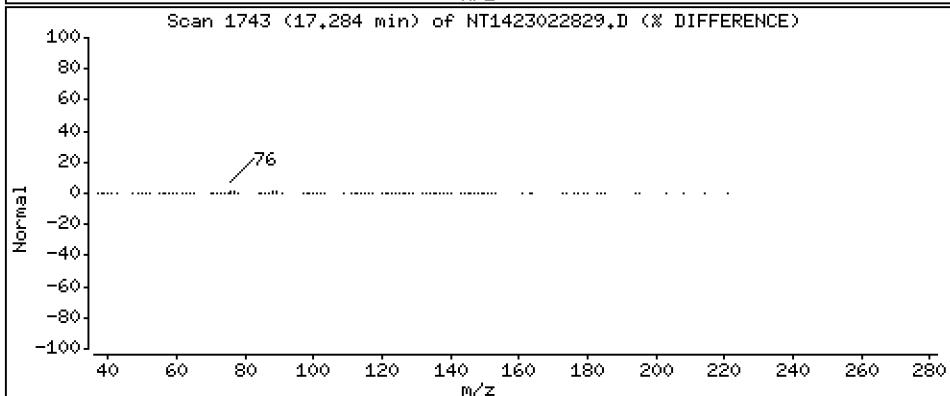
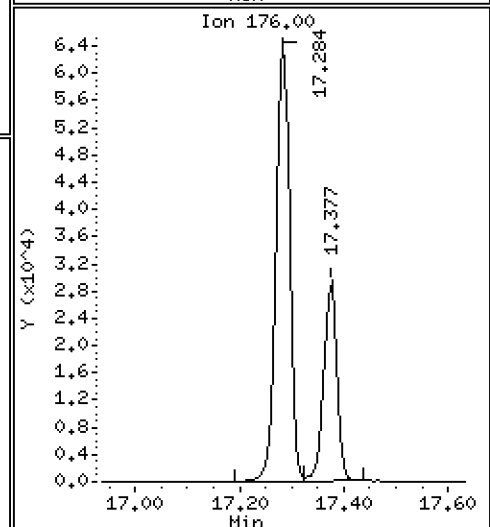
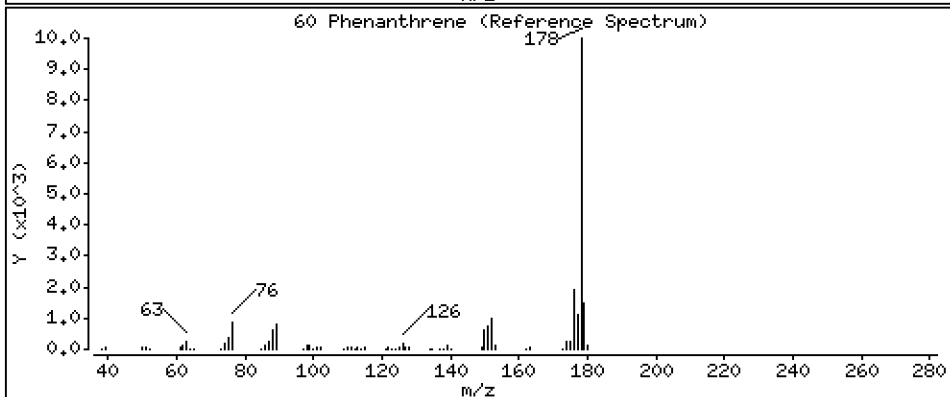
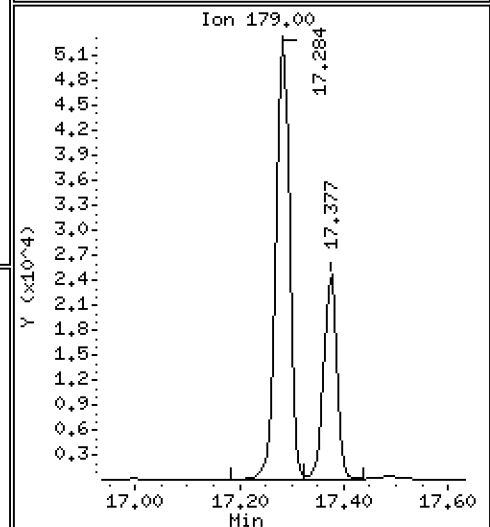
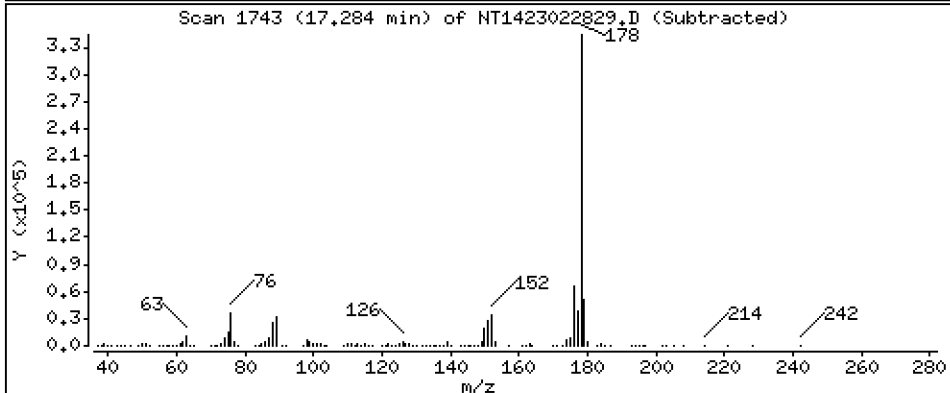
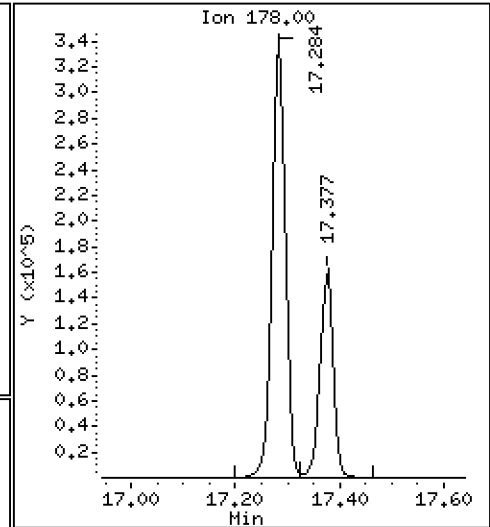
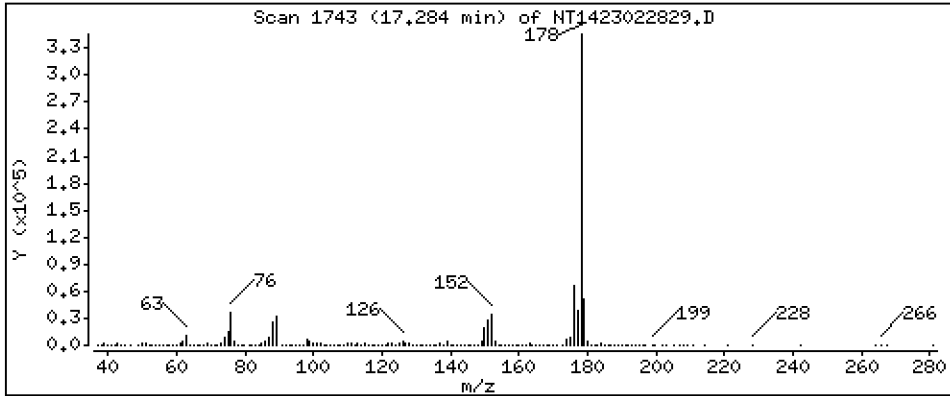
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

60 Phenanthrene

Concentration: 4.720 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

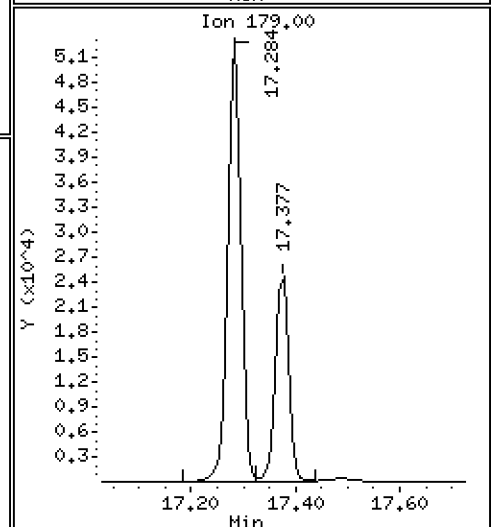
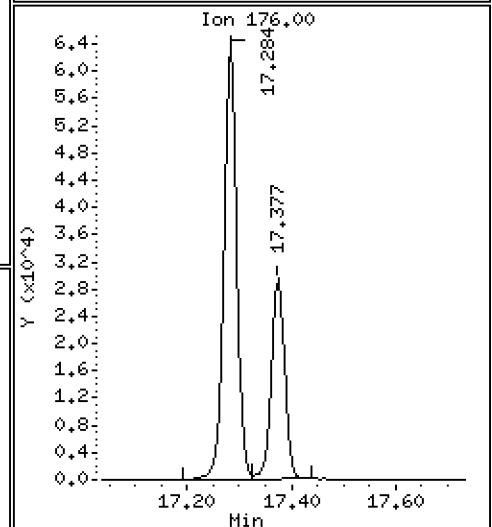
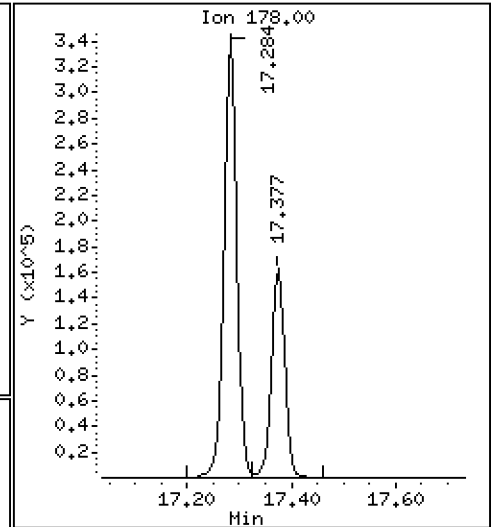
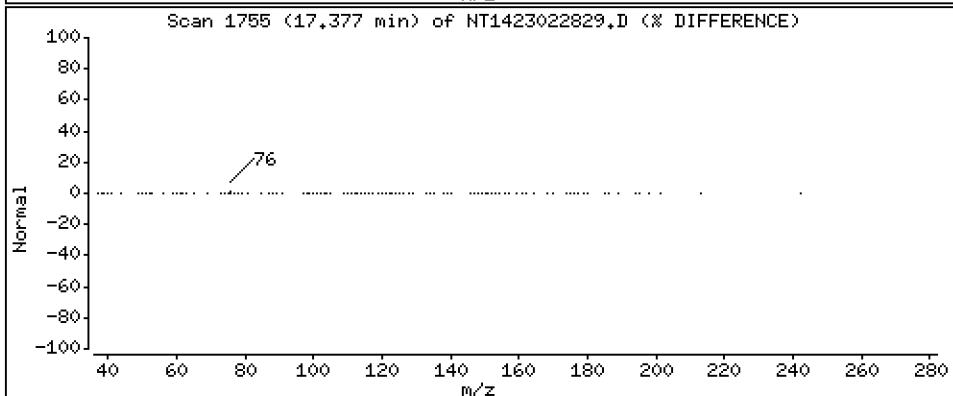
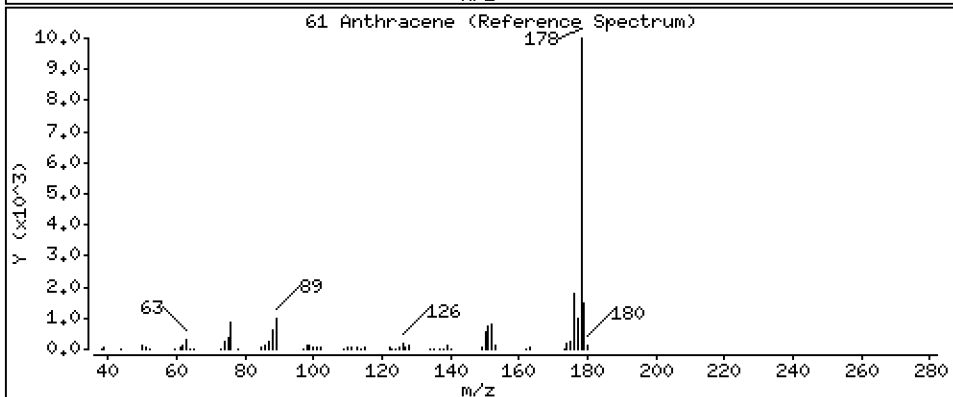
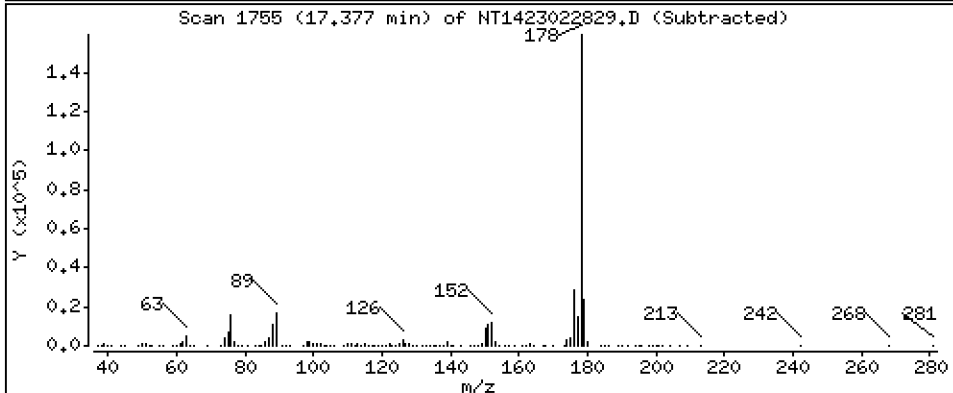
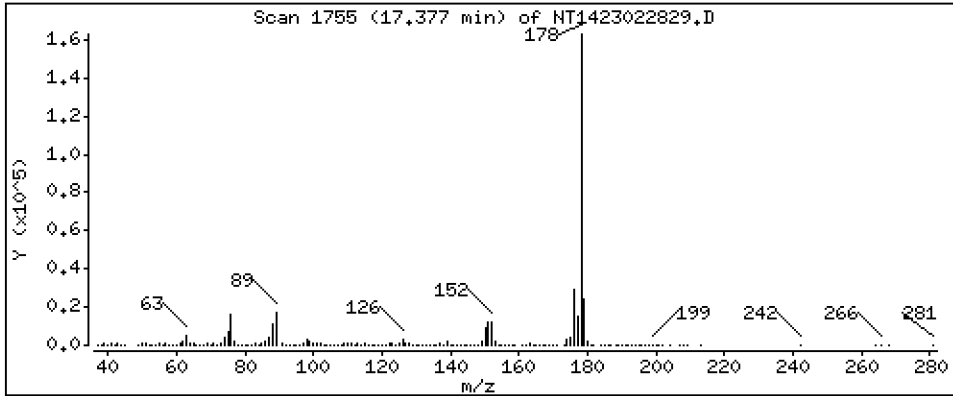
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 2,303 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

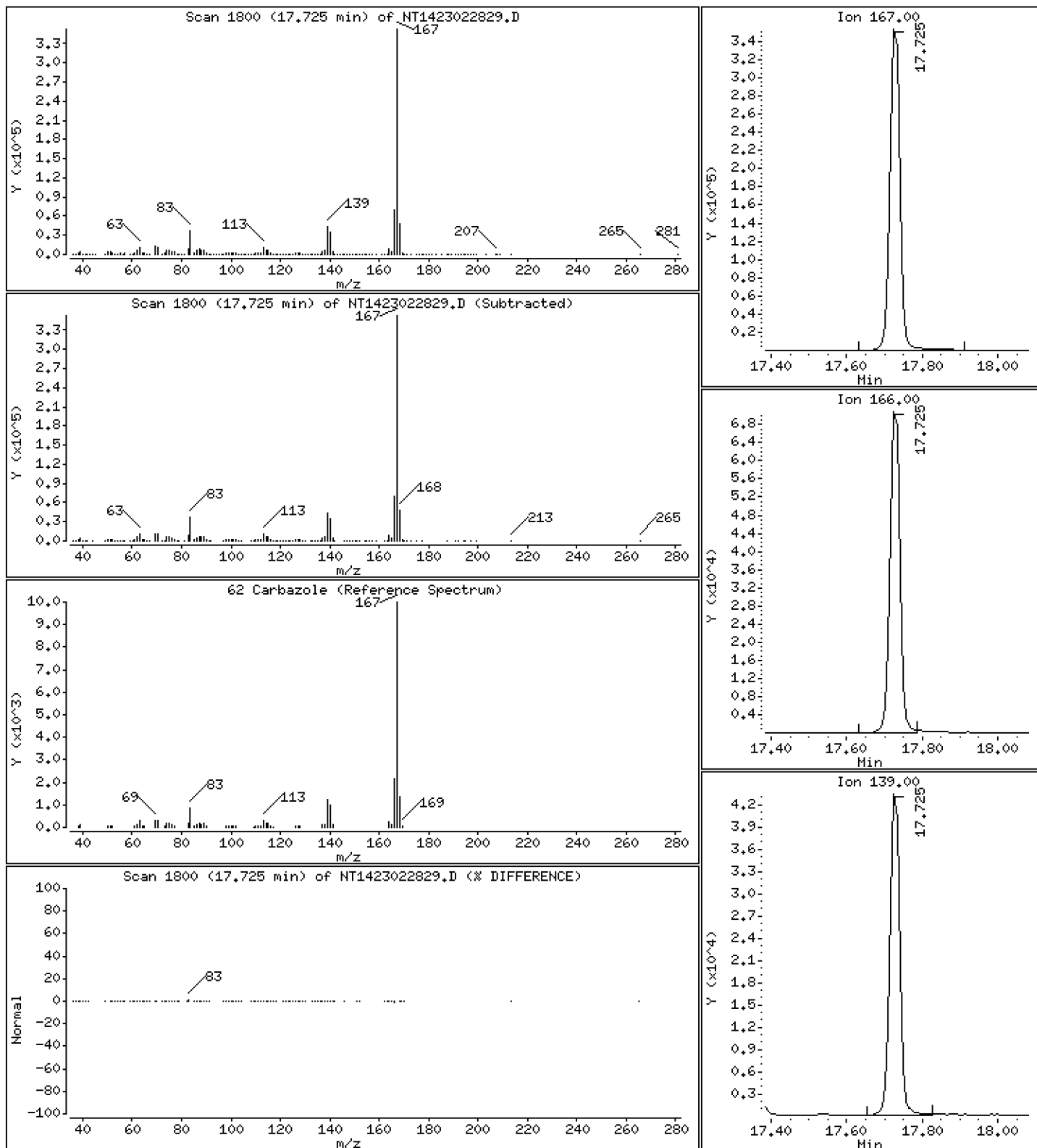
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 5,955 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

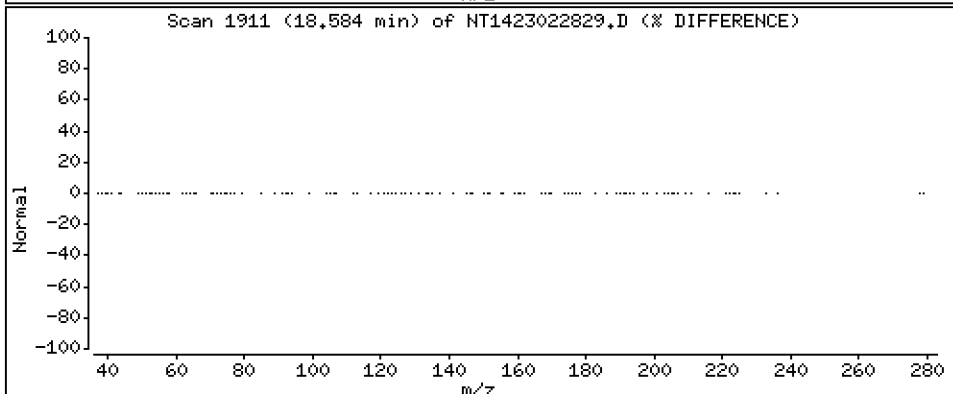
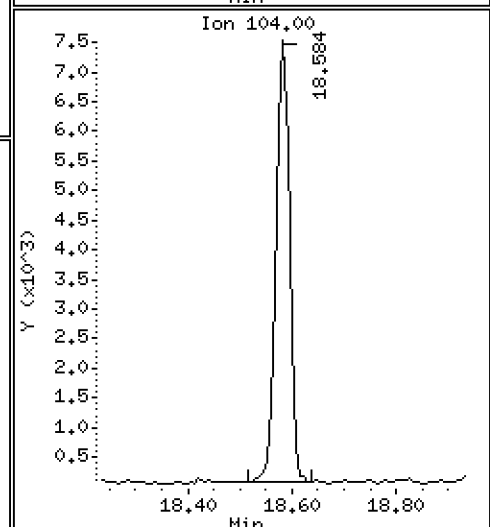
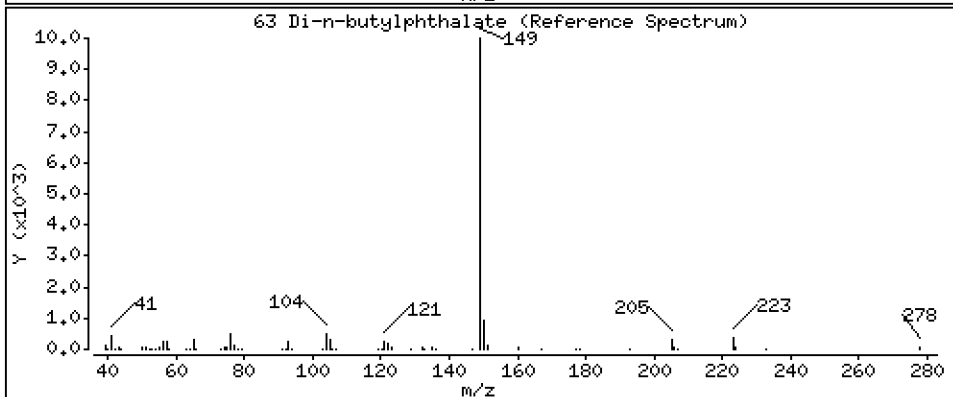
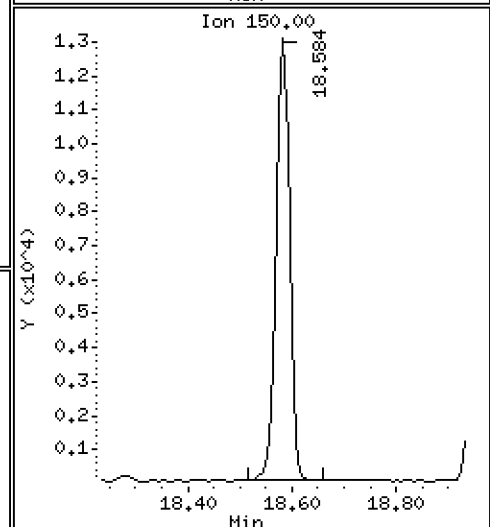
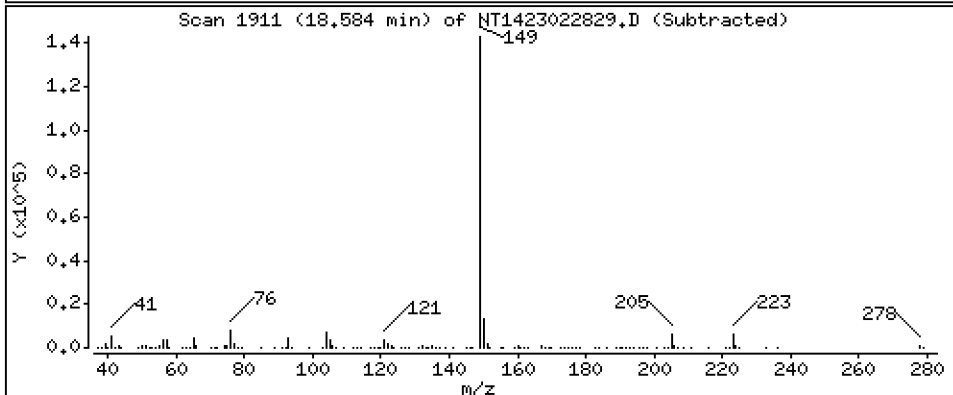
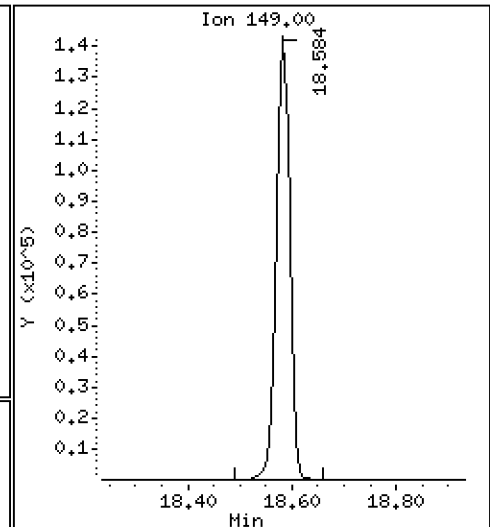
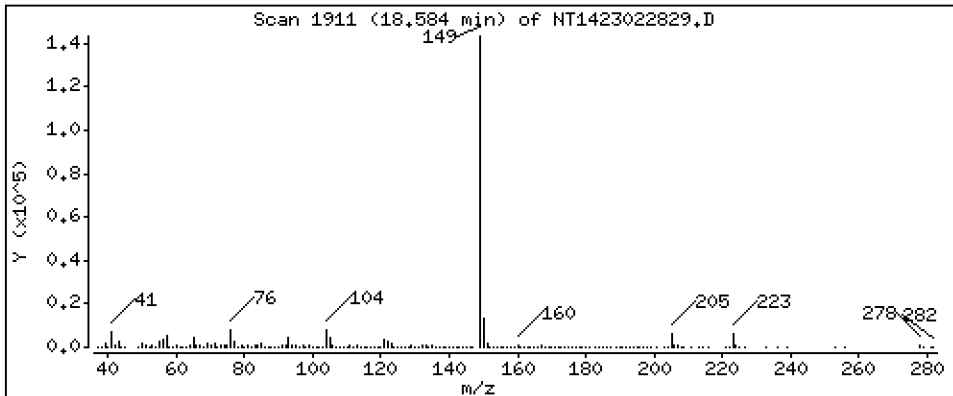
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 1,825 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

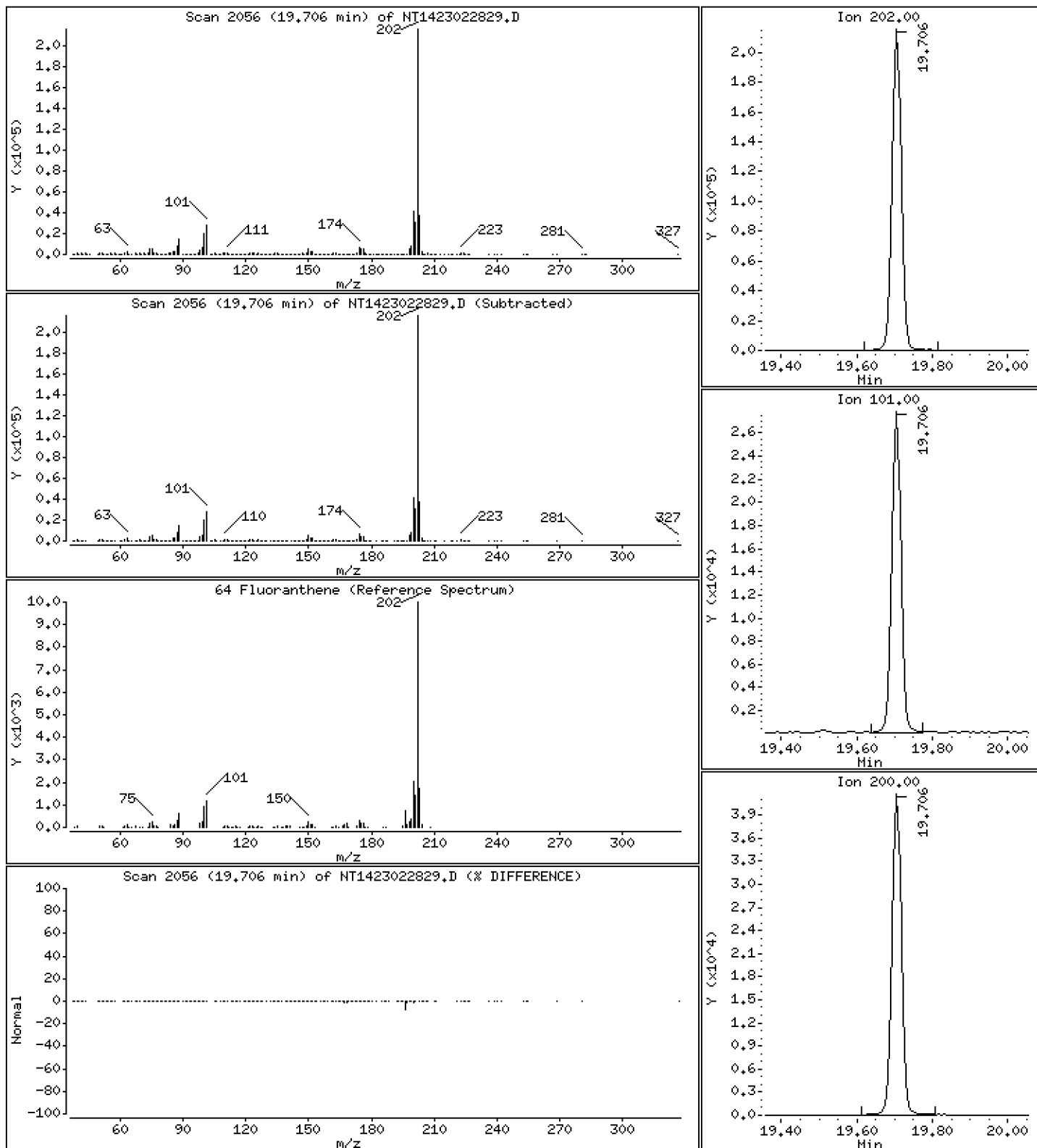
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 2,652 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

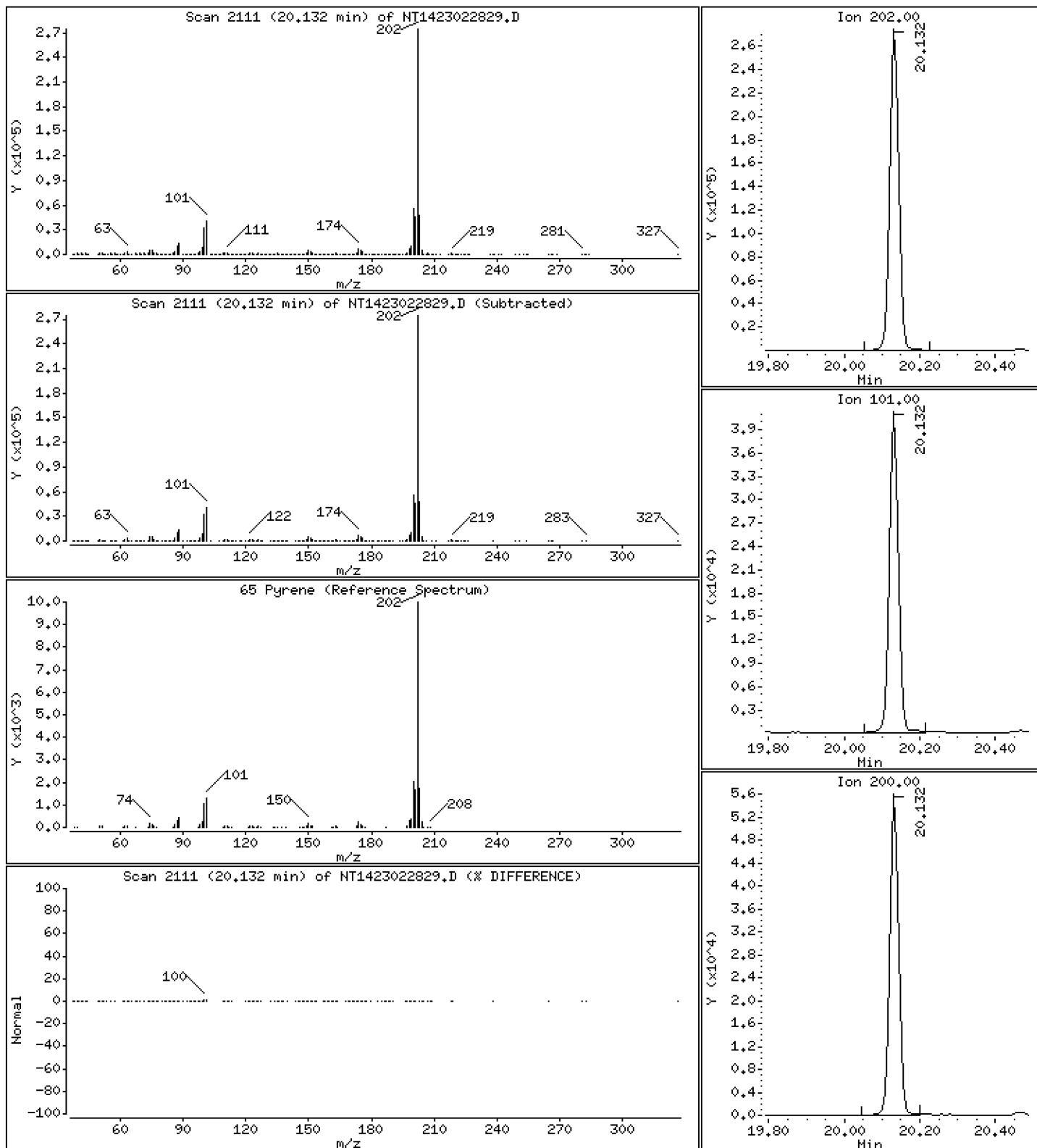
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 3,163 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

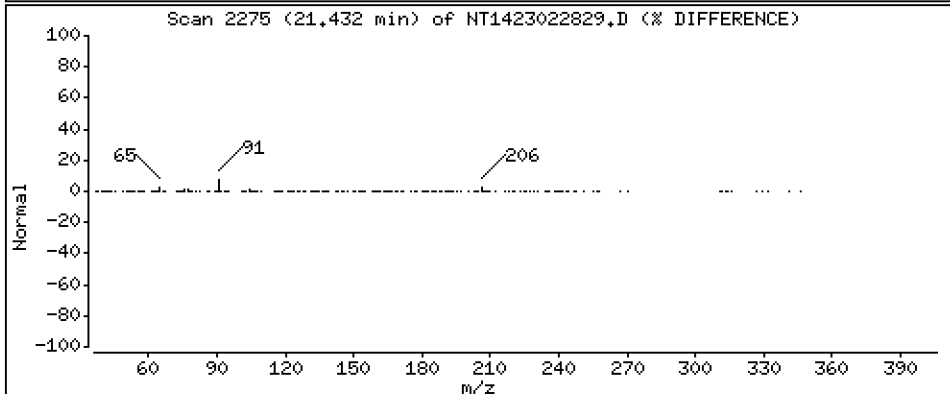
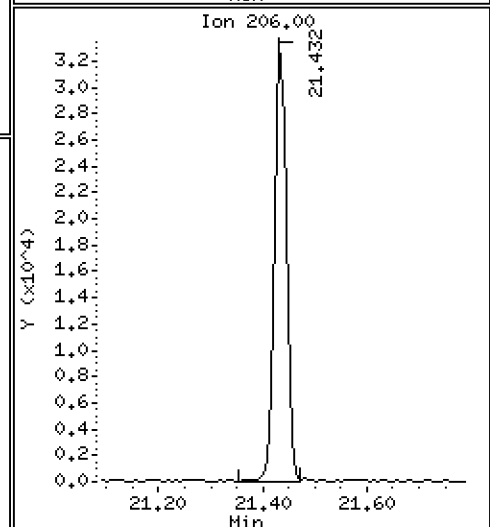
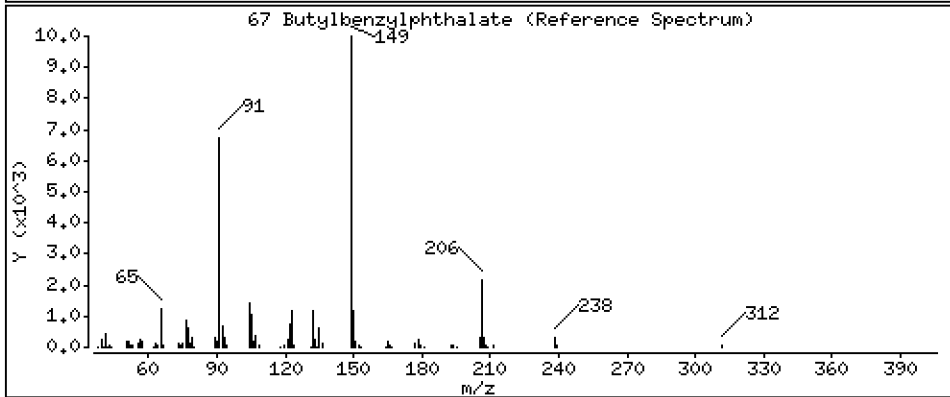
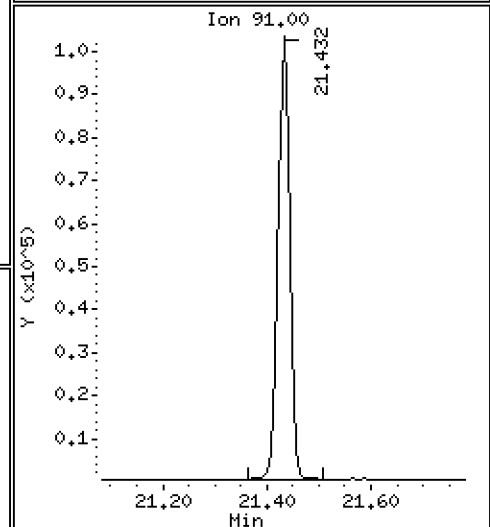
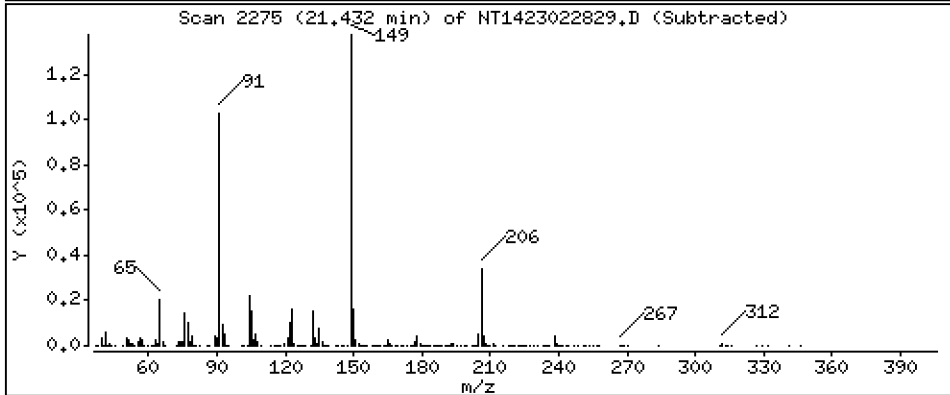
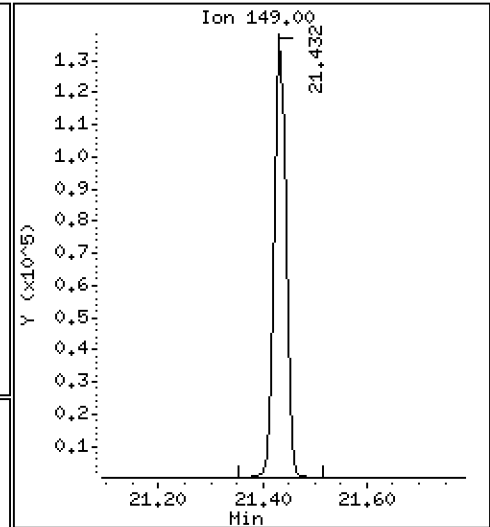
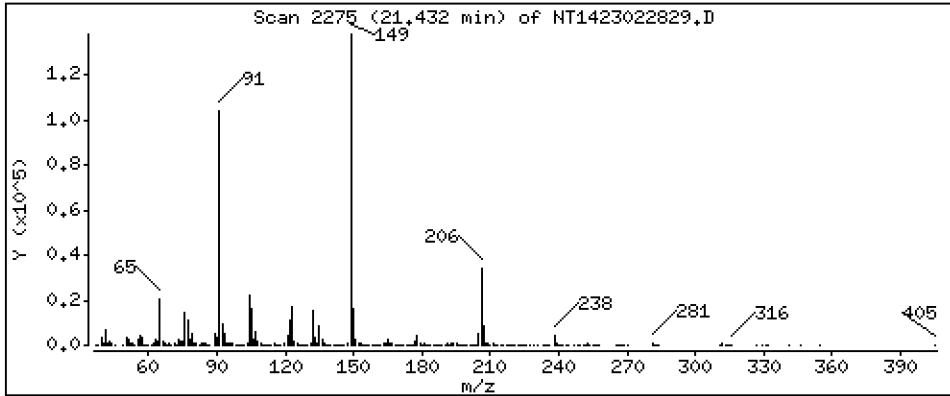
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 4,194 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

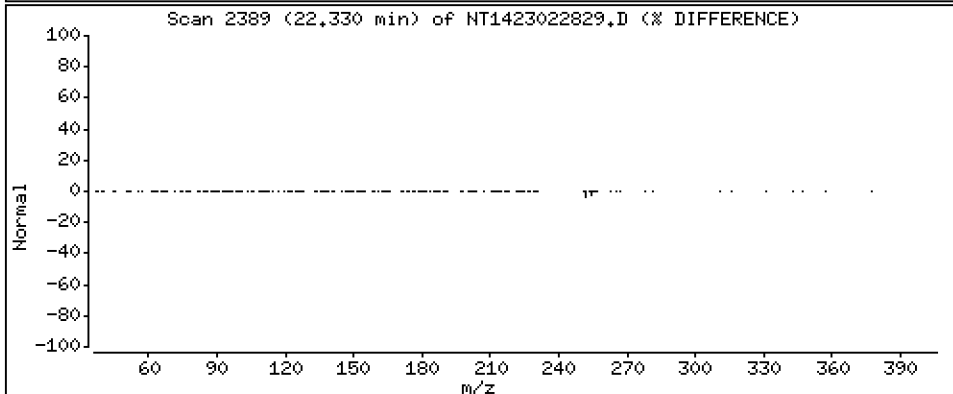
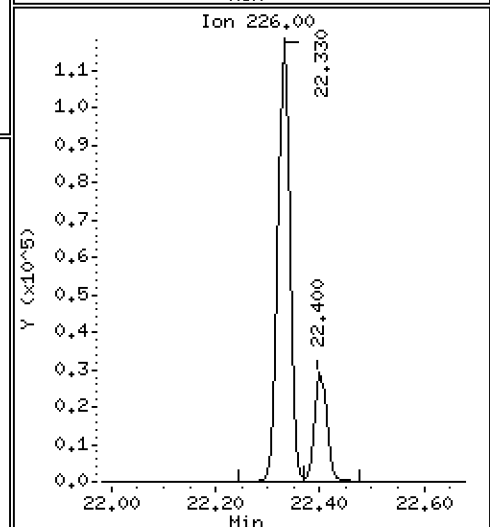
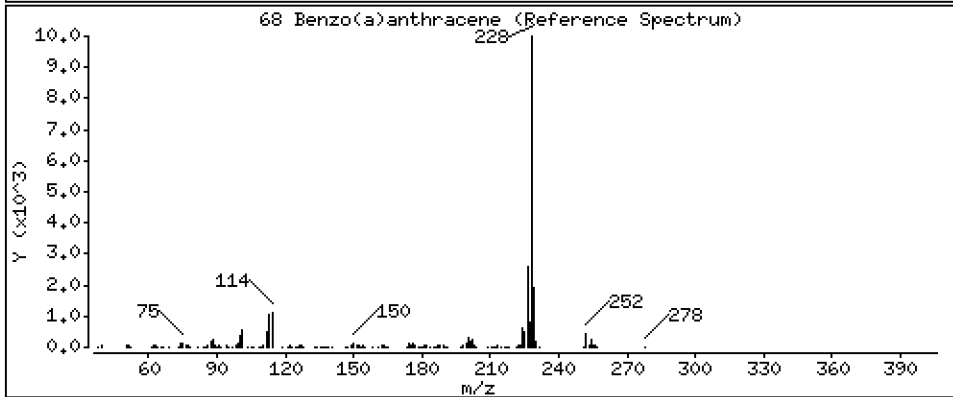
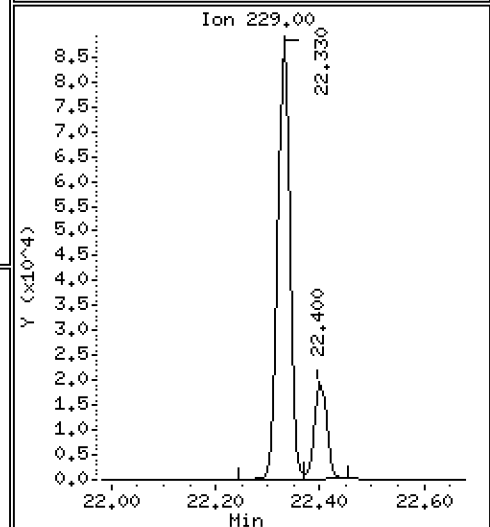
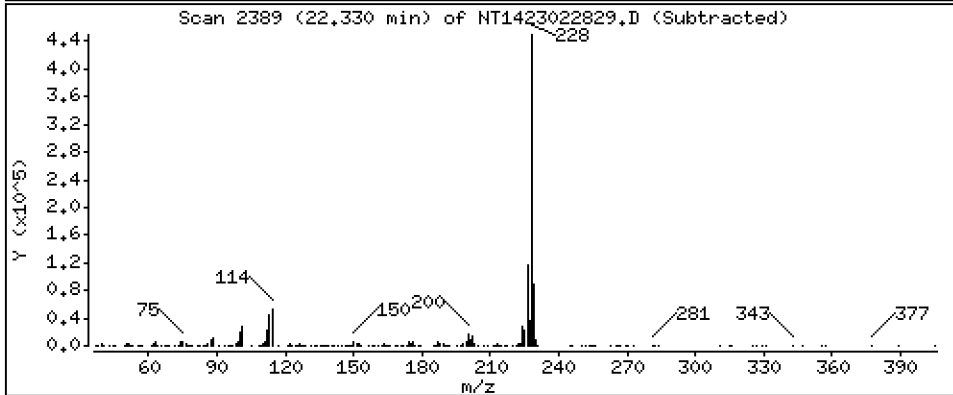
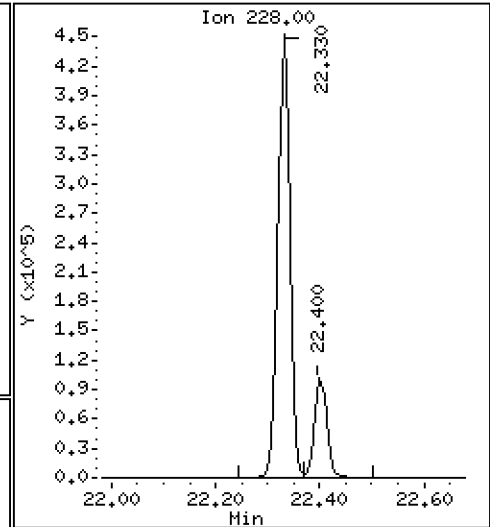
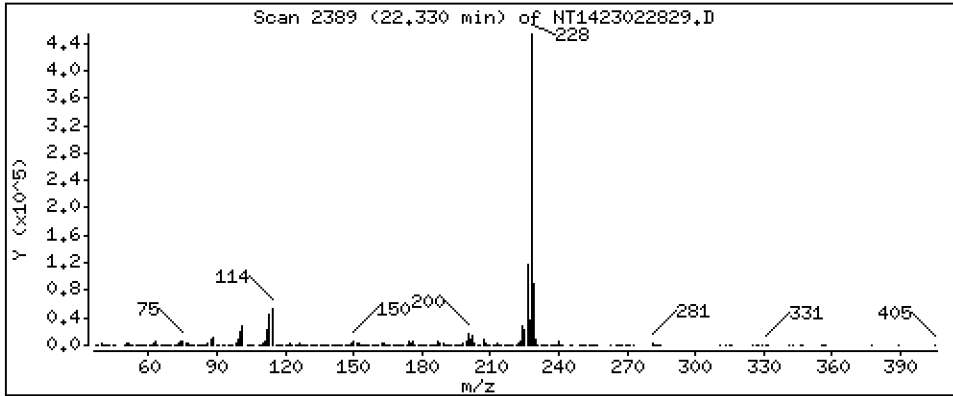
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 5,921 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

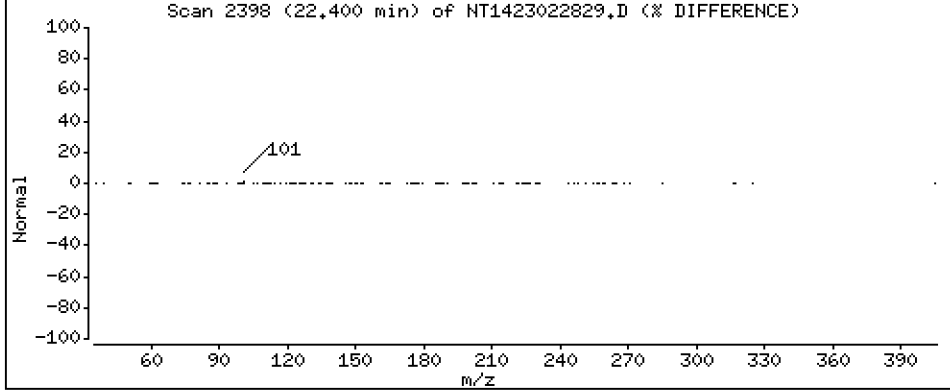
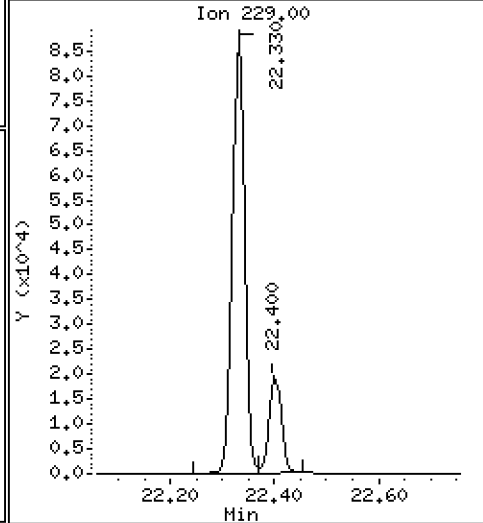
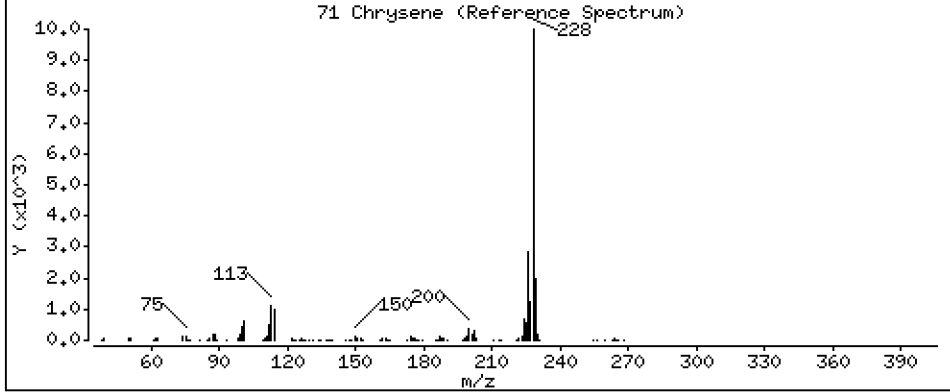
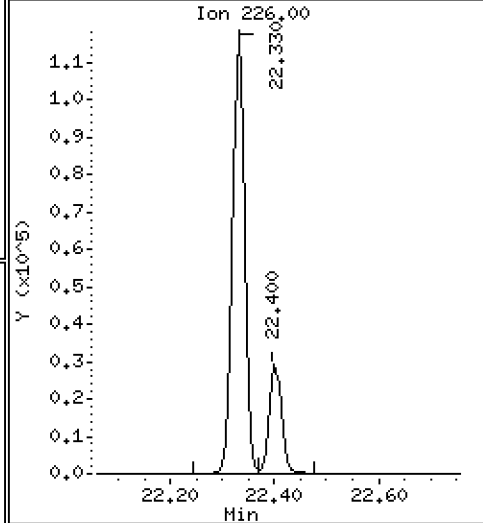
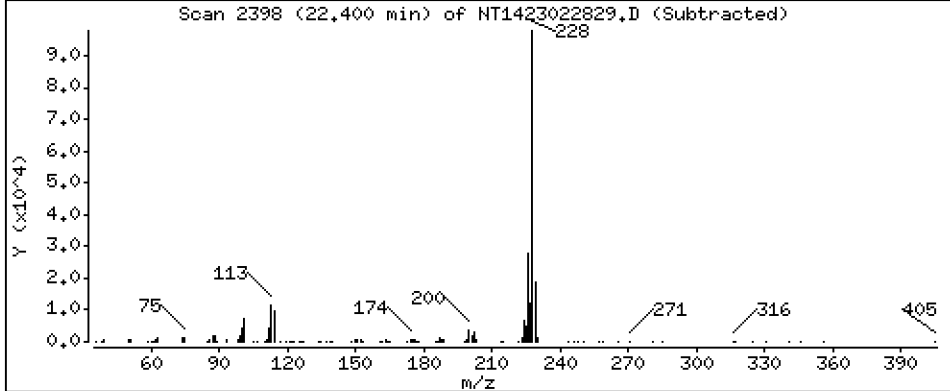
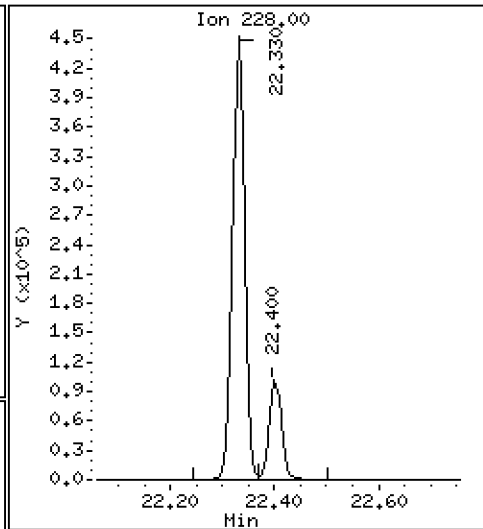
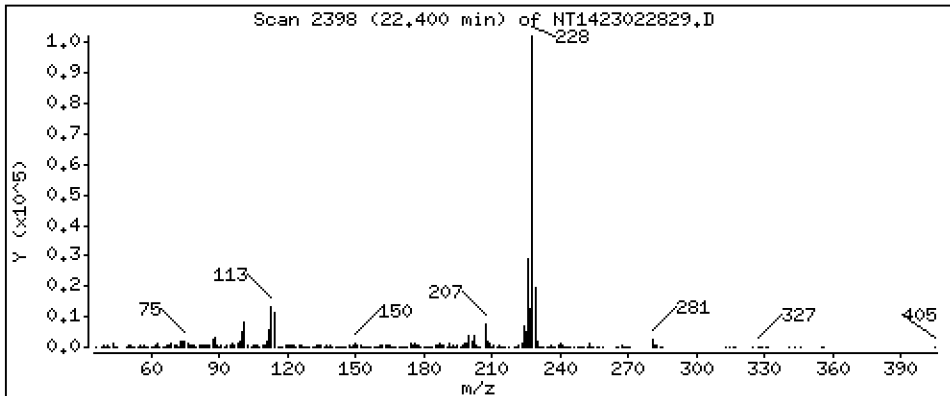
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 1,424 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

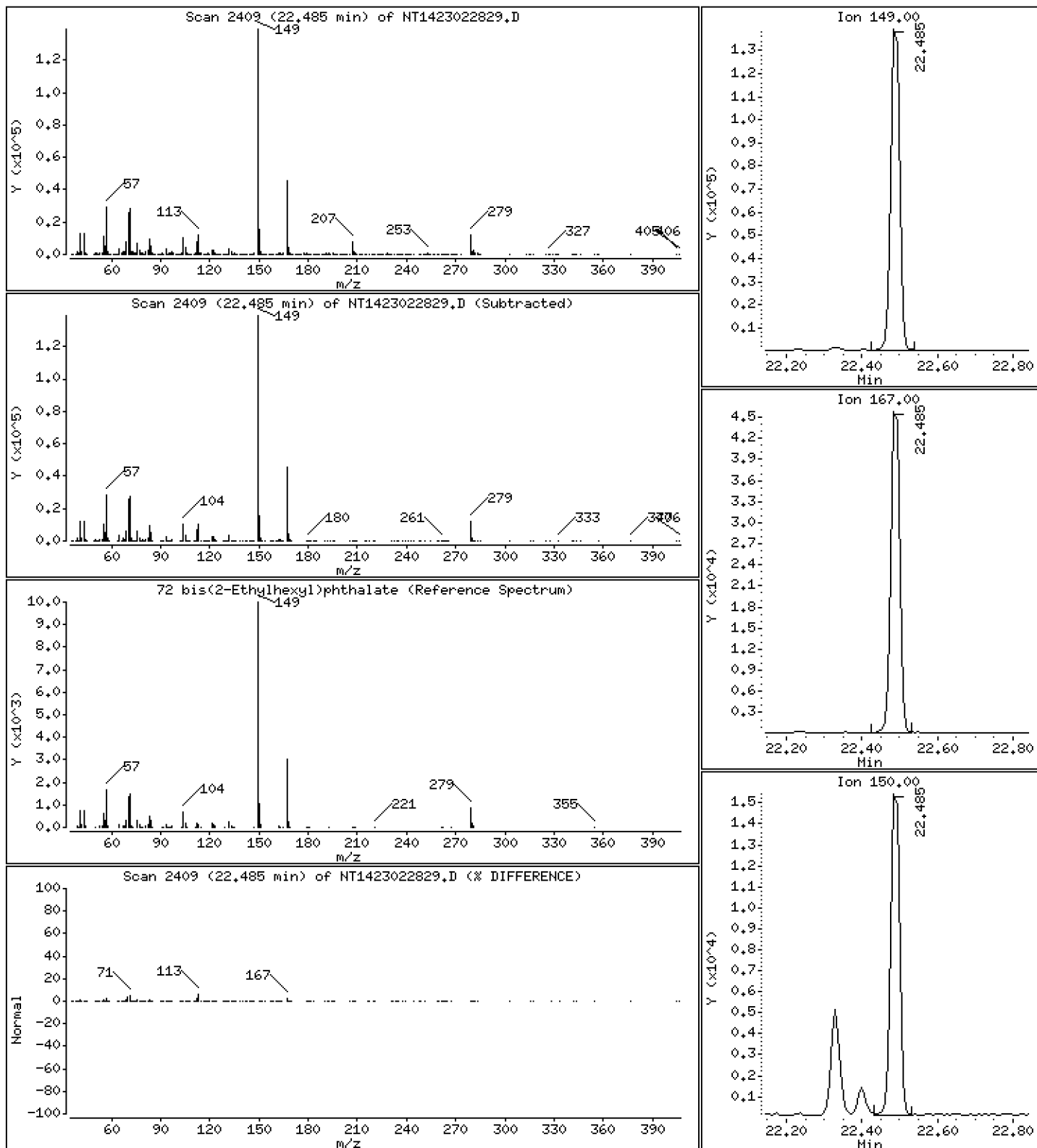
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 2,617 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

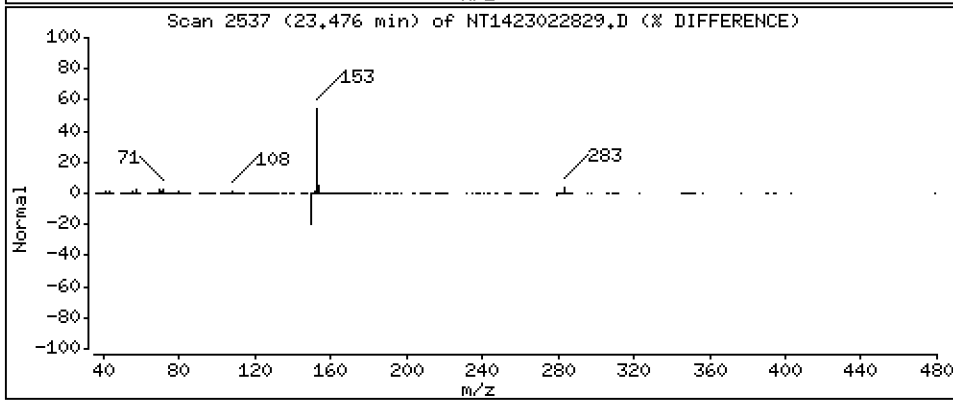
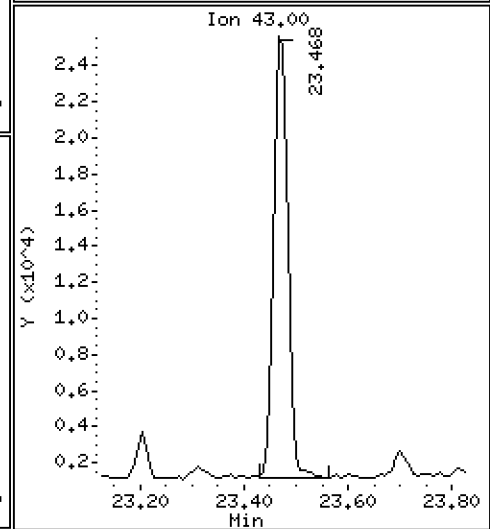
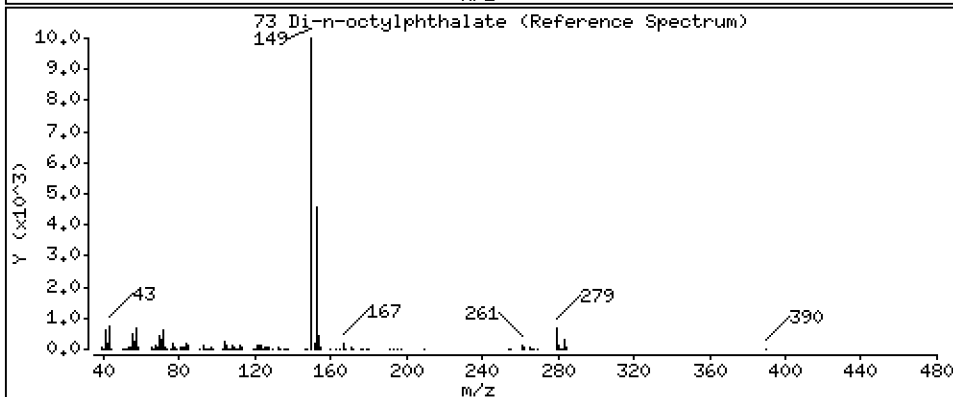
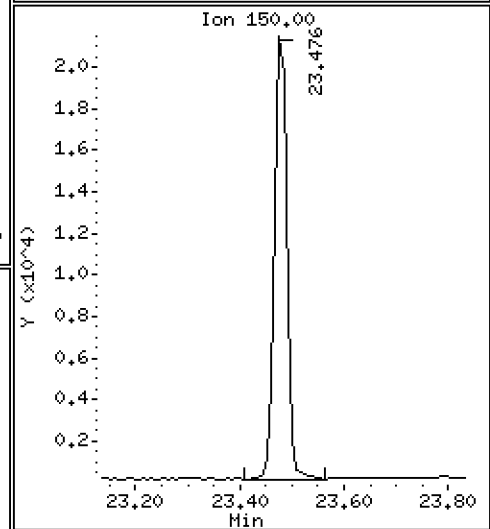
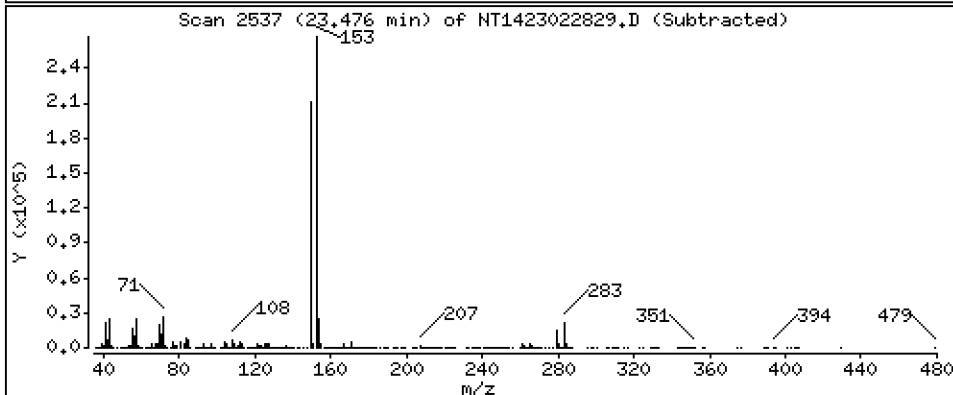
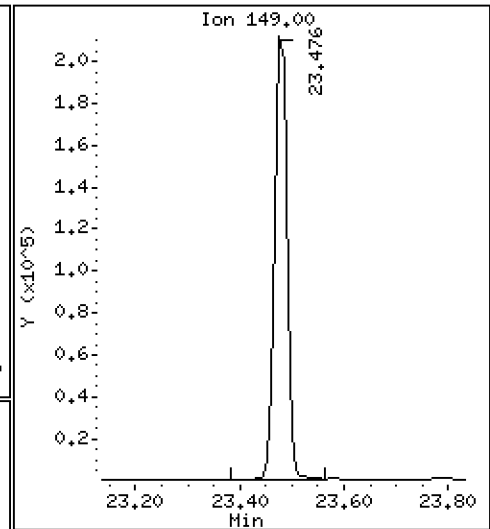
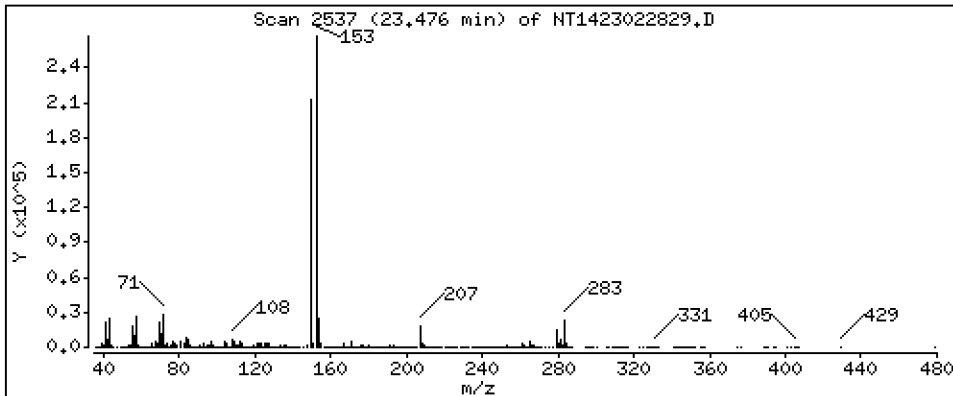
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 2,359 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

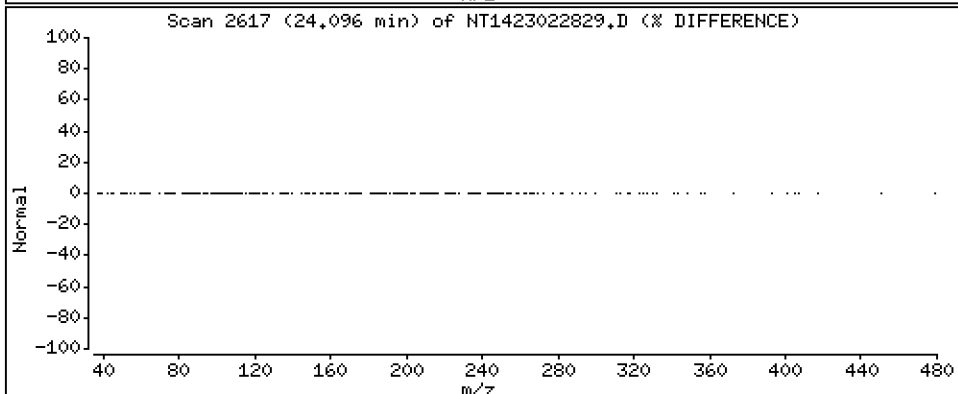
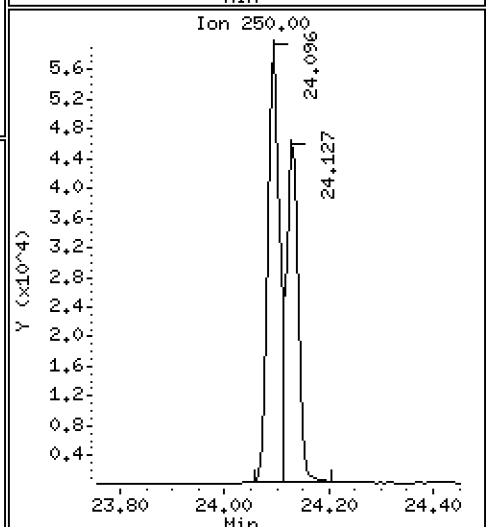
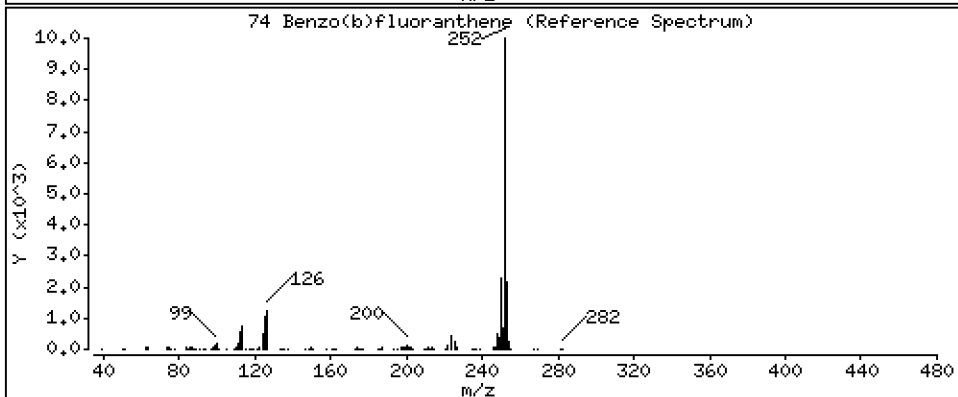
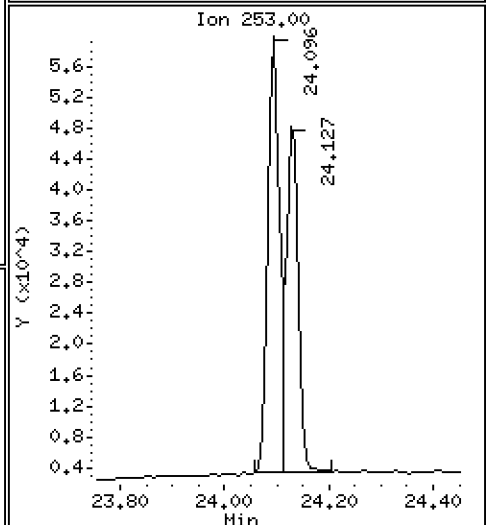
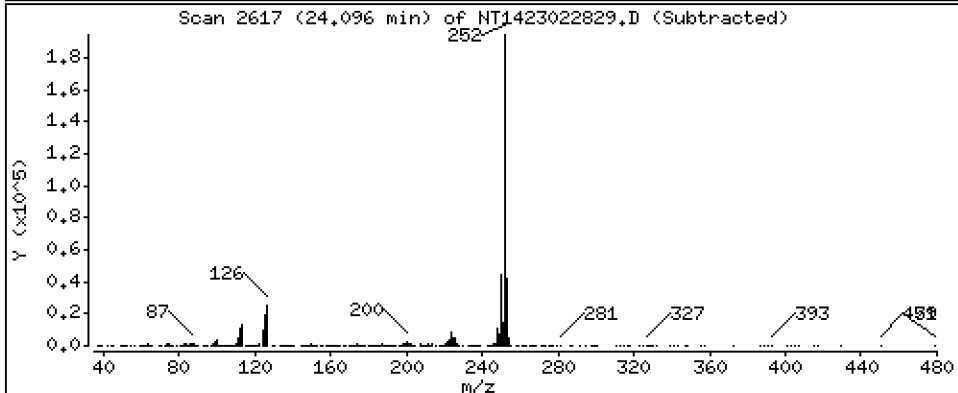
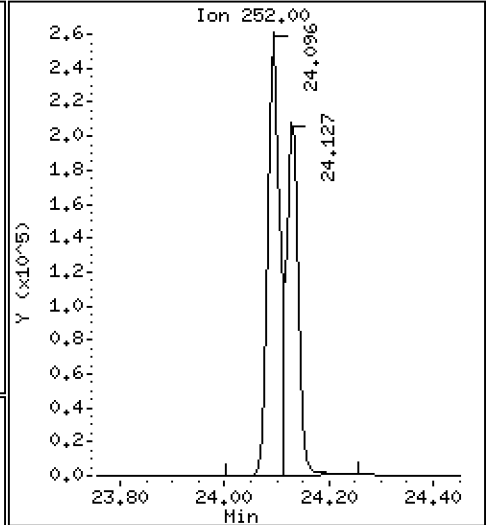
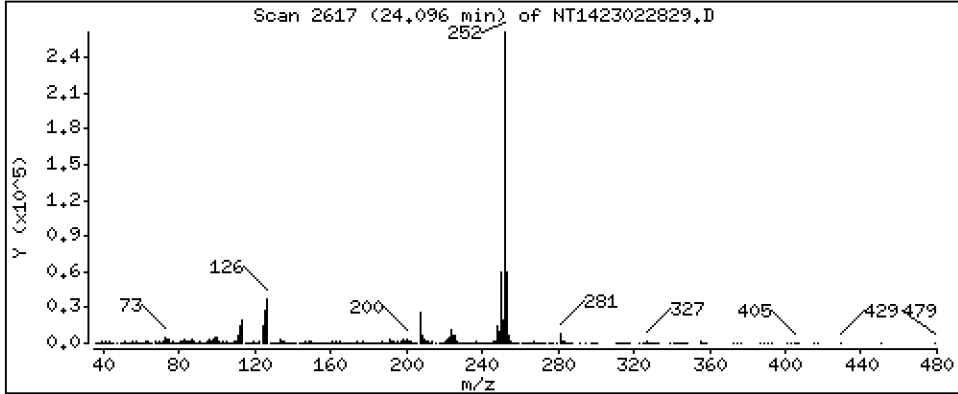
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 2,969 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

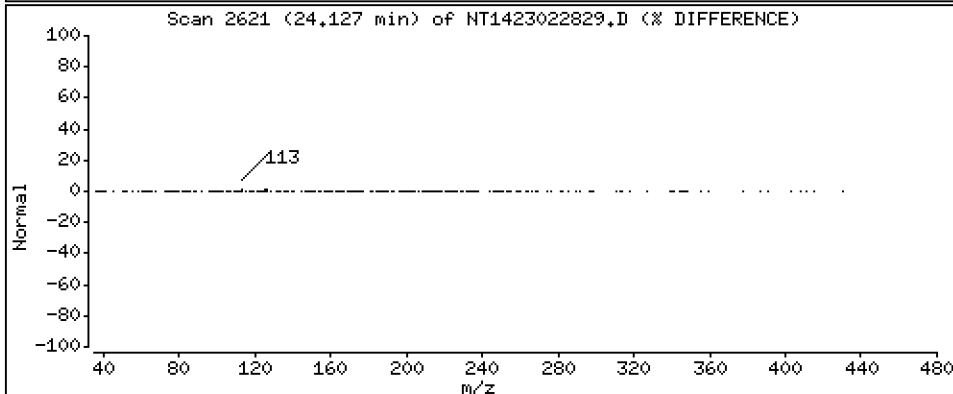
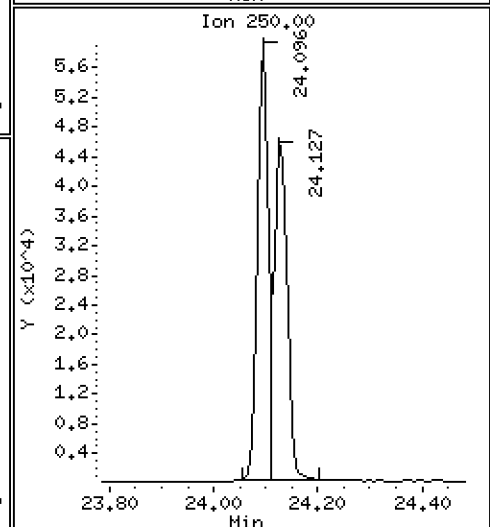
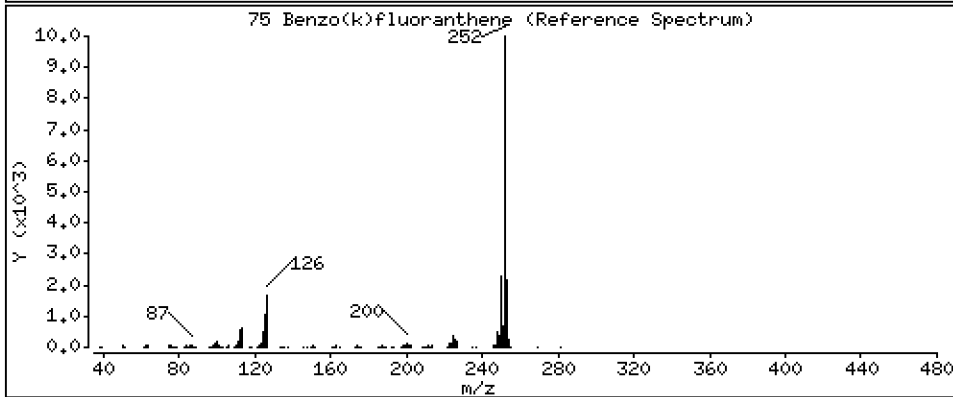
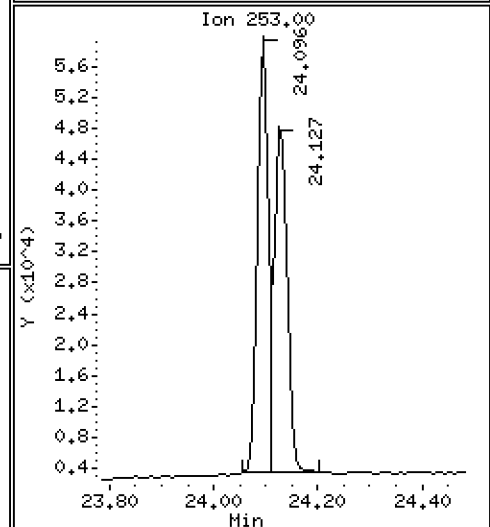
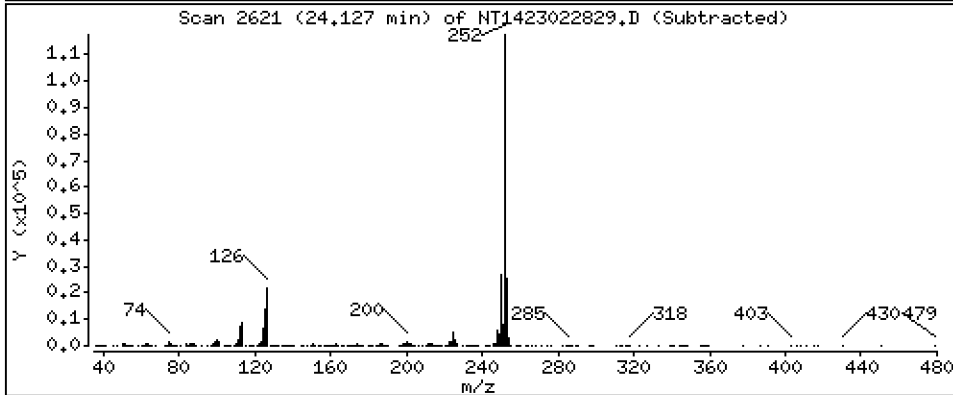
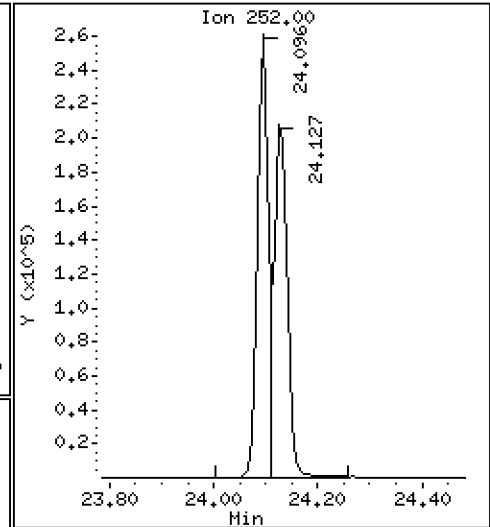
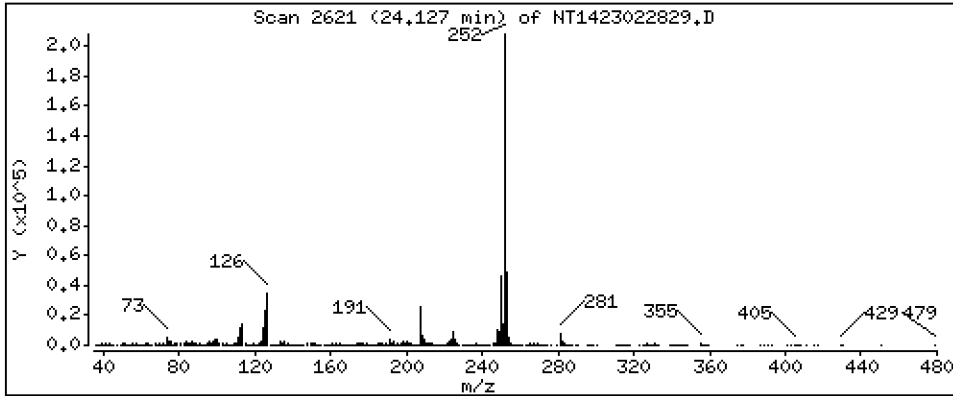
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 2,522 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

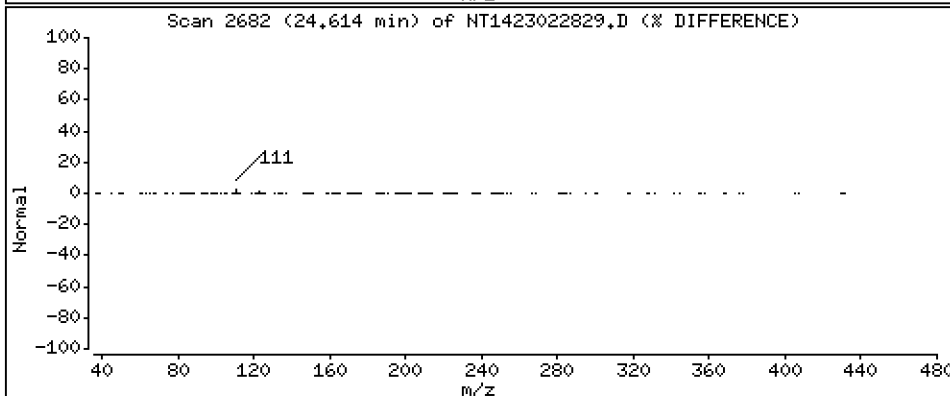
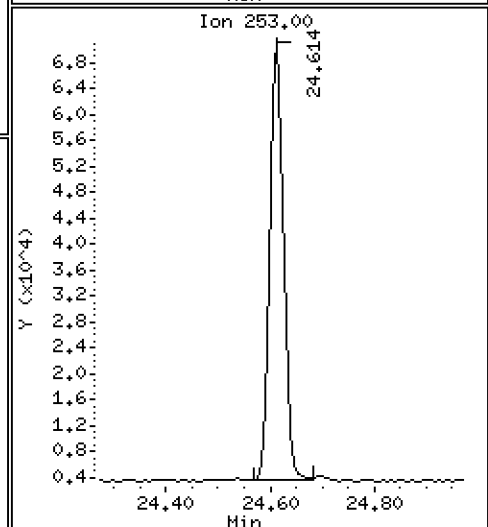
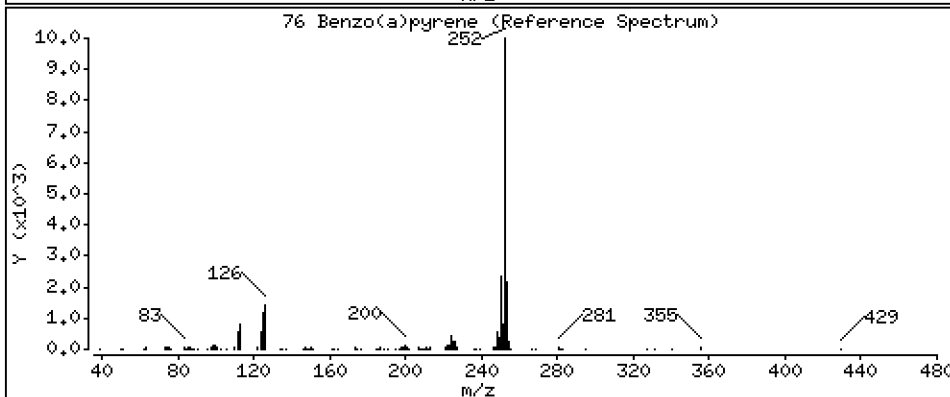
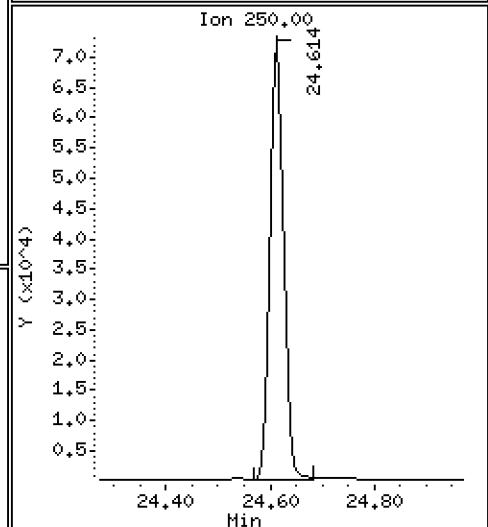
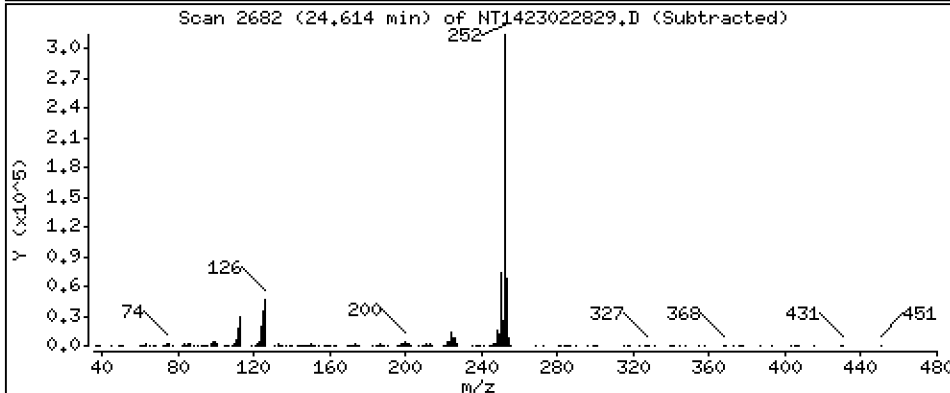
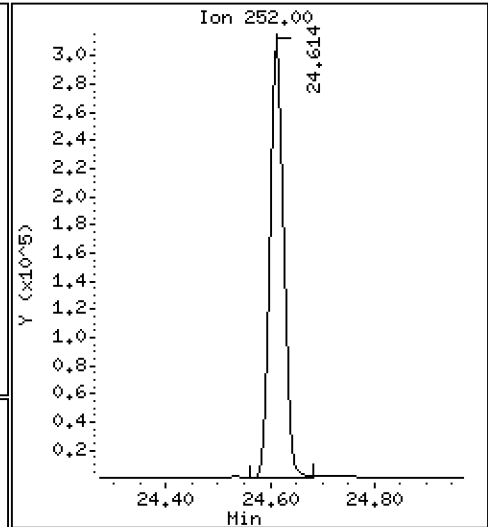
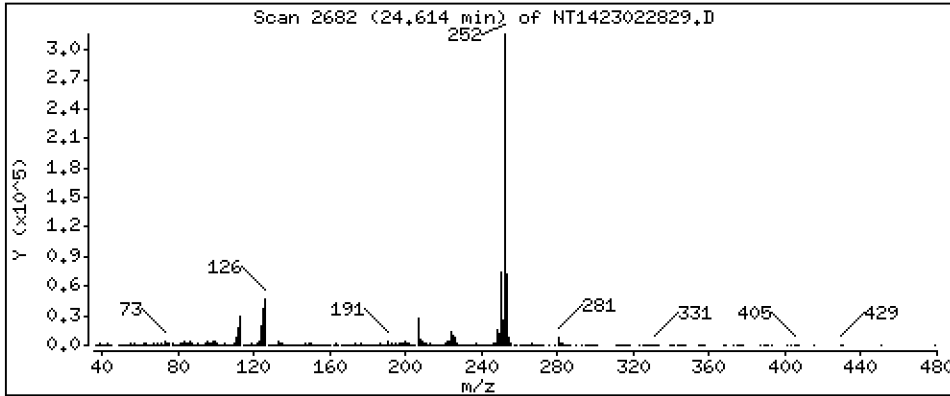
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 4,740 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

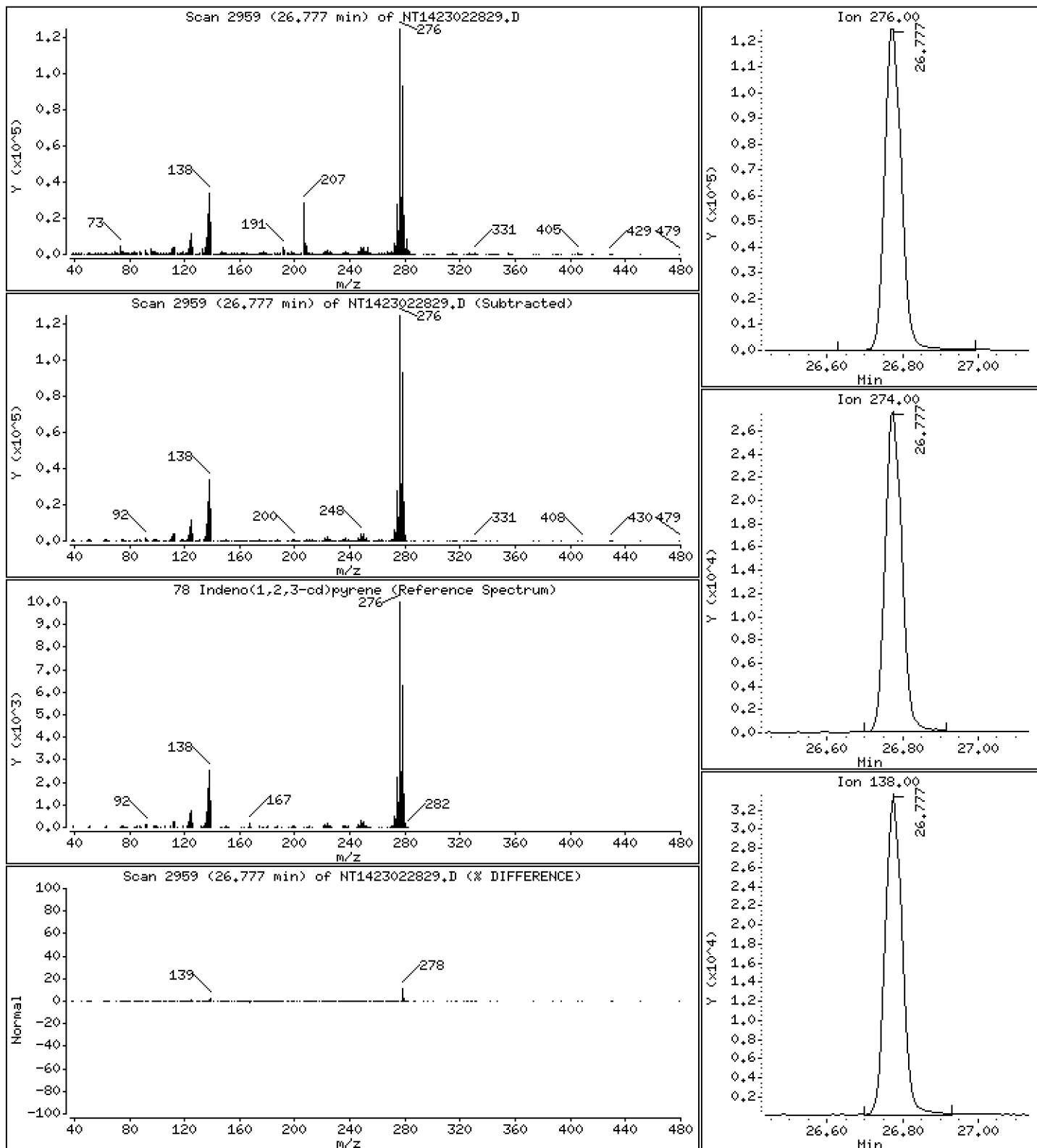
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 2,611 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

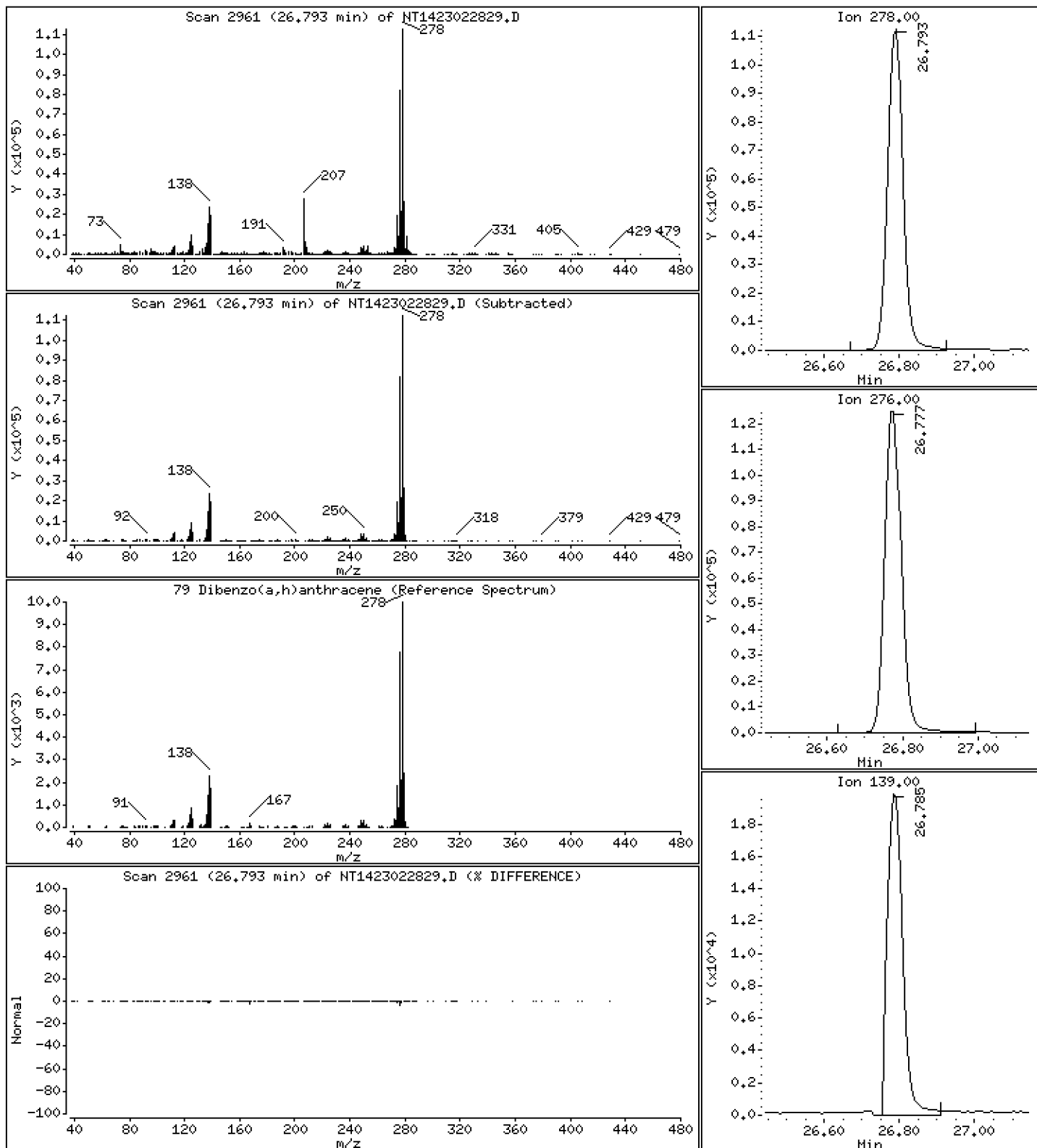
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 2,515 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

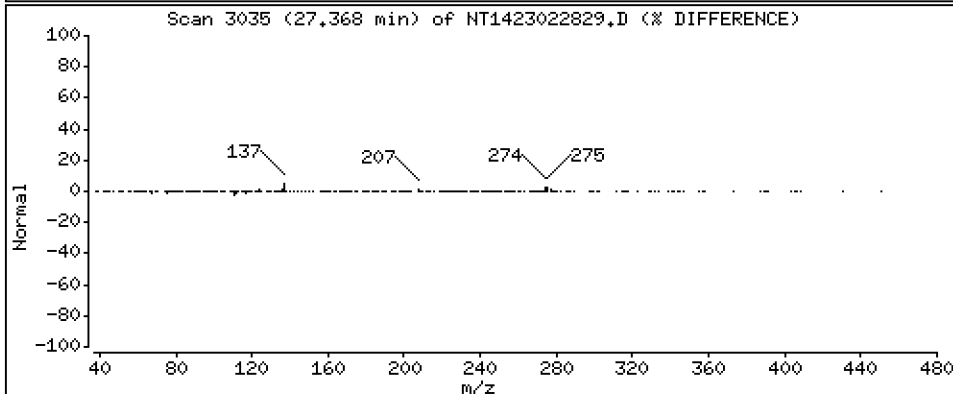
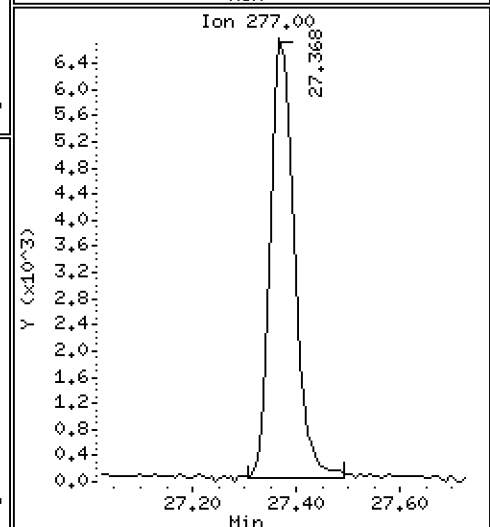
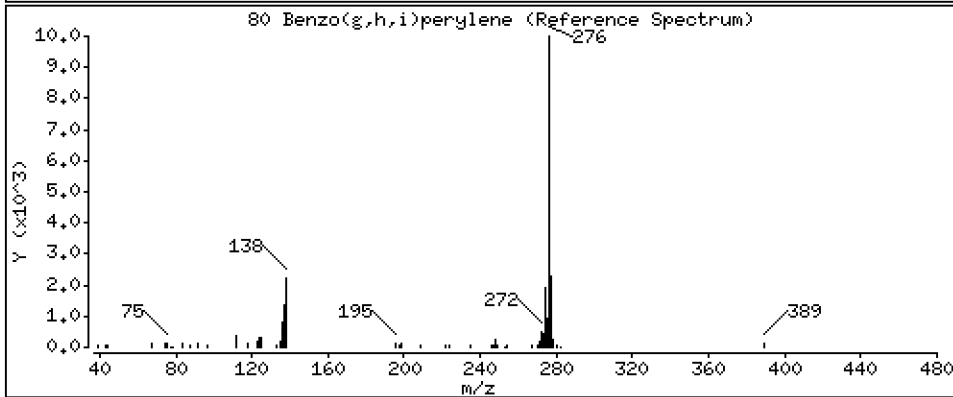
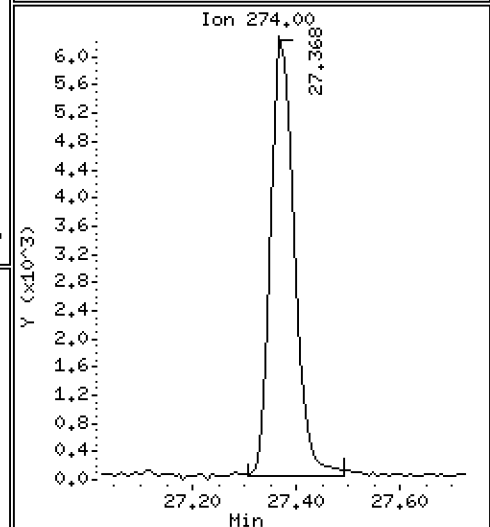
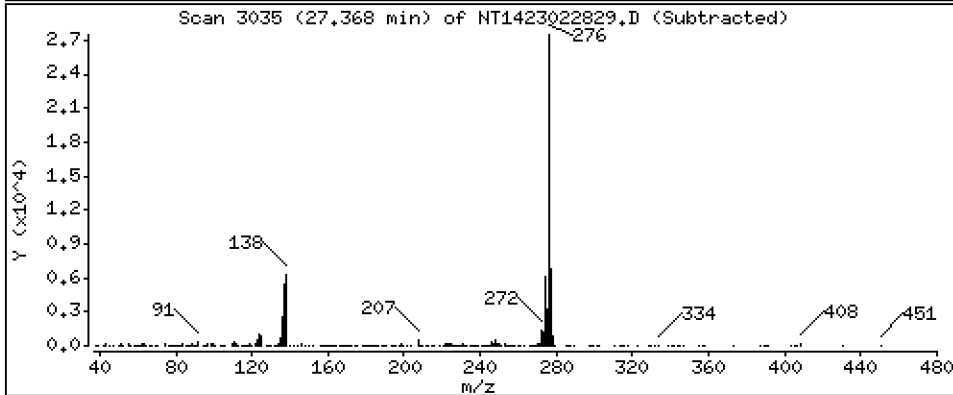
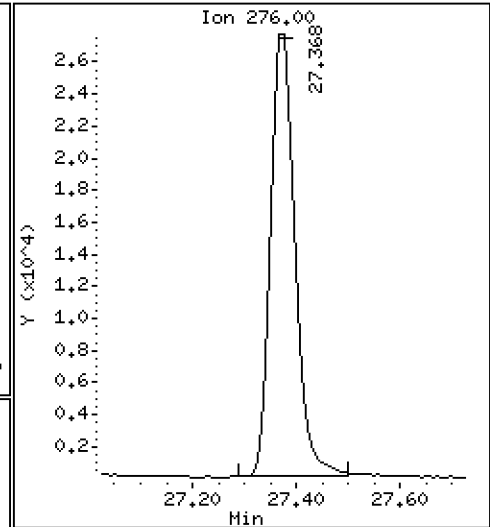
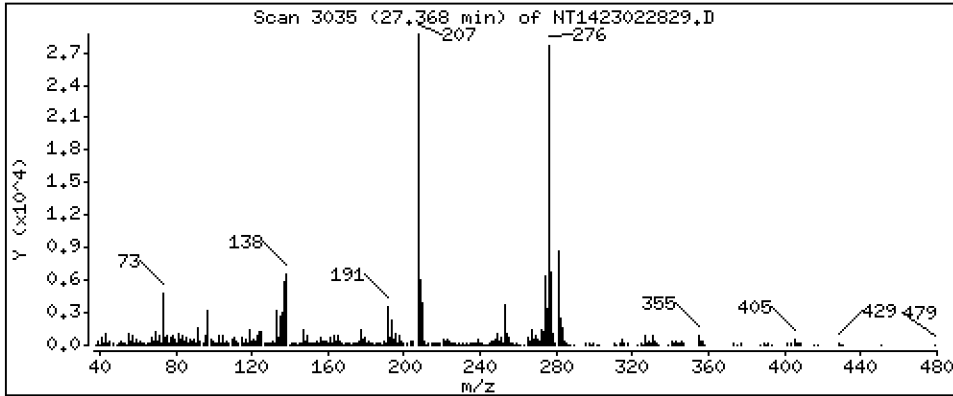
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 0,6887 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

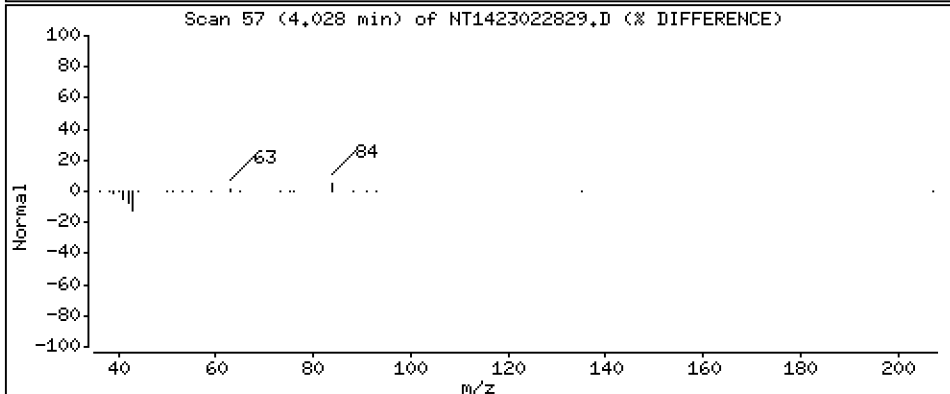
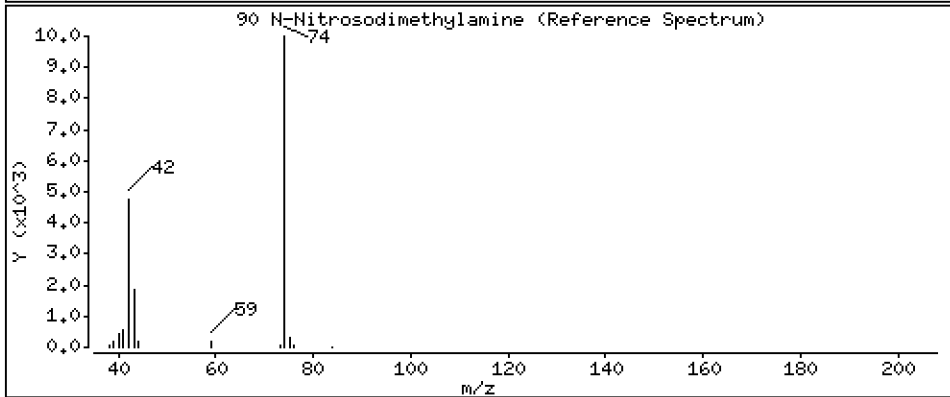
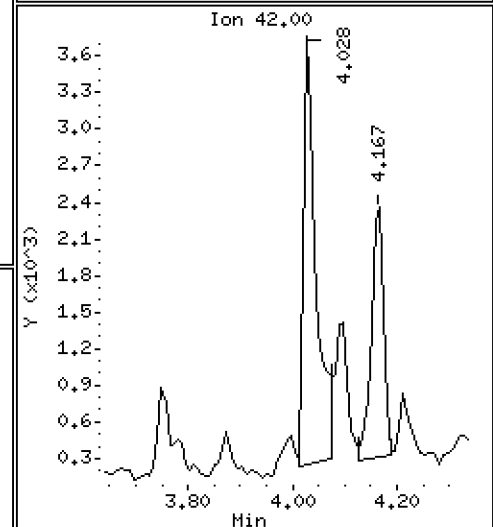
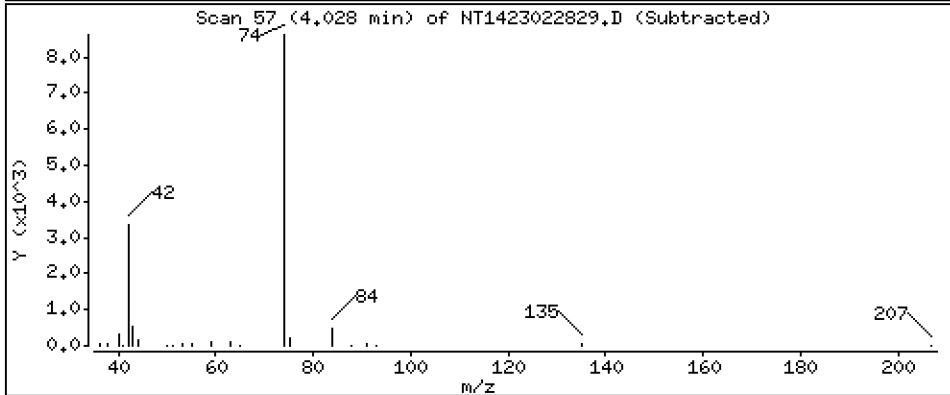
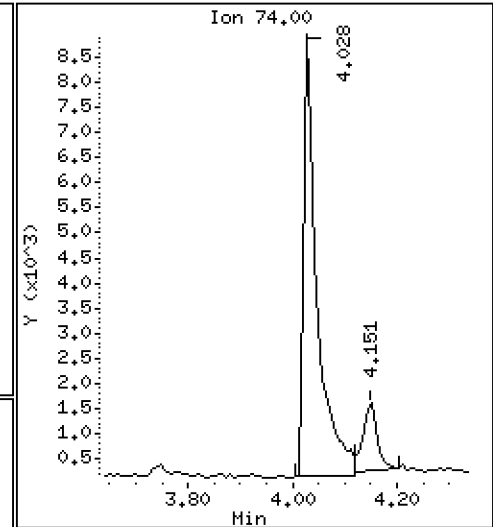
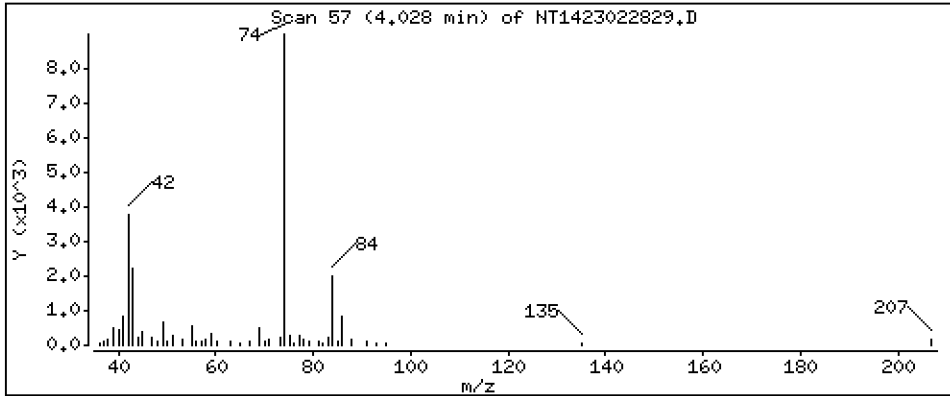
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

90 N-Nitrosodimethylamine

Concentration: 0,6769 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

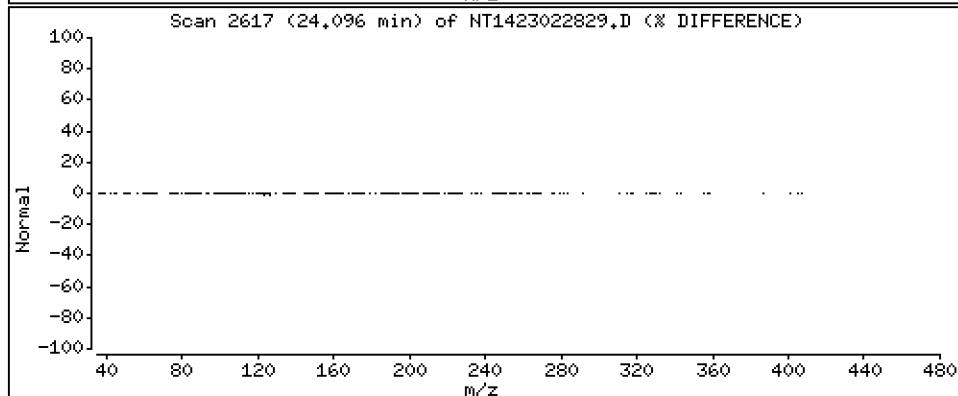
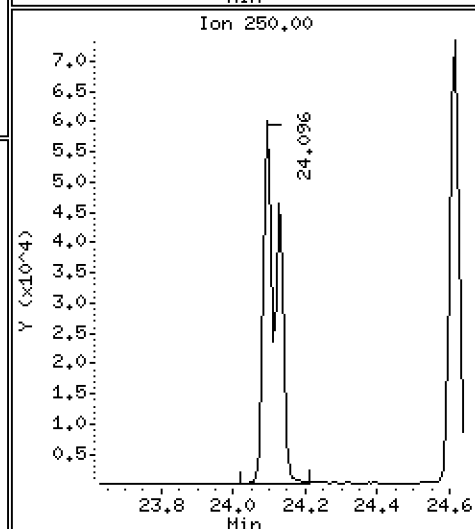
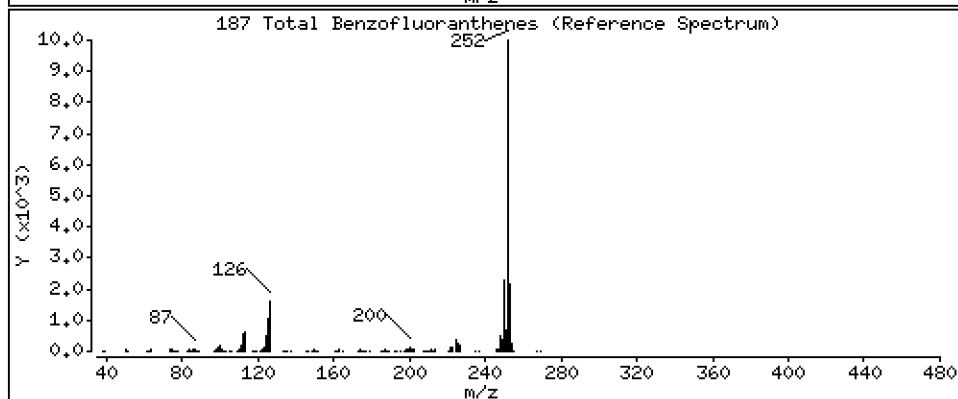
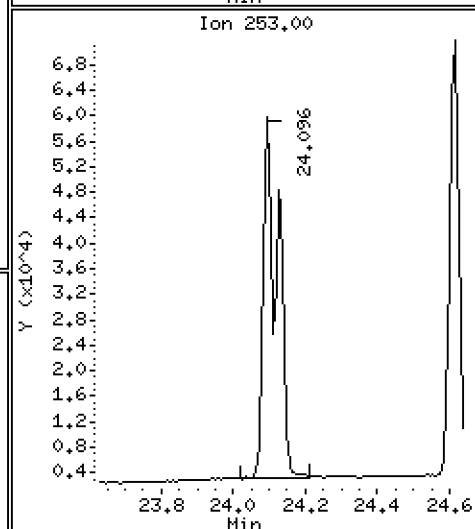
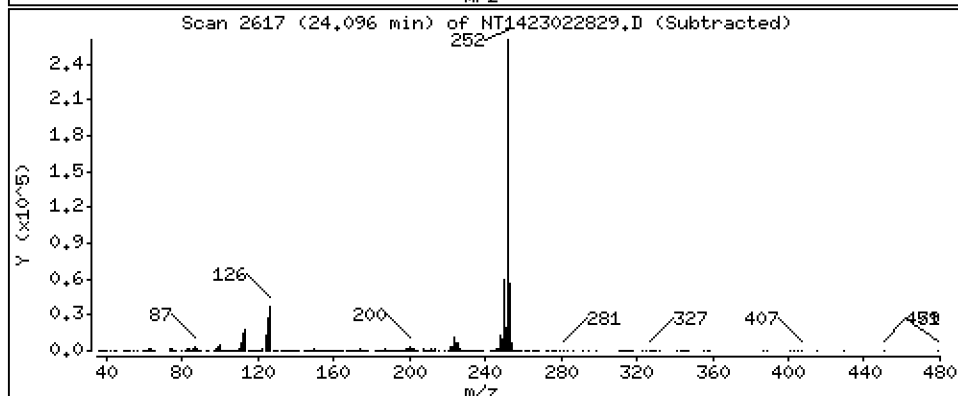
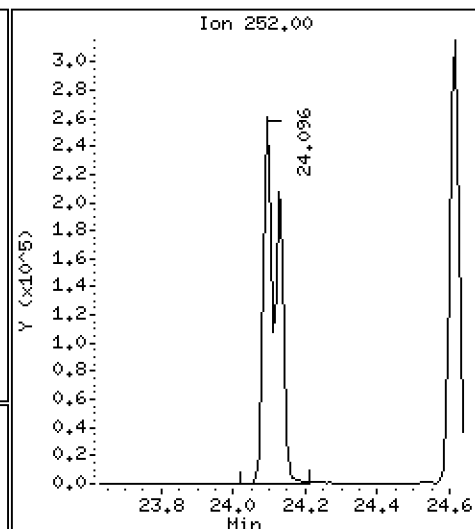
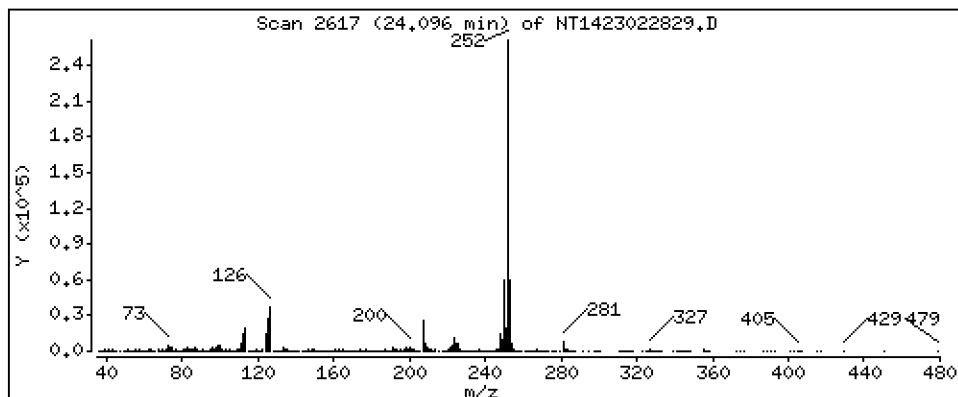
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 5,450 ug/mL



Date : 01-MAR-2023 18:28

Client ID:

Instrument: nt14.i

Sample Info: BLA0557-SRM1

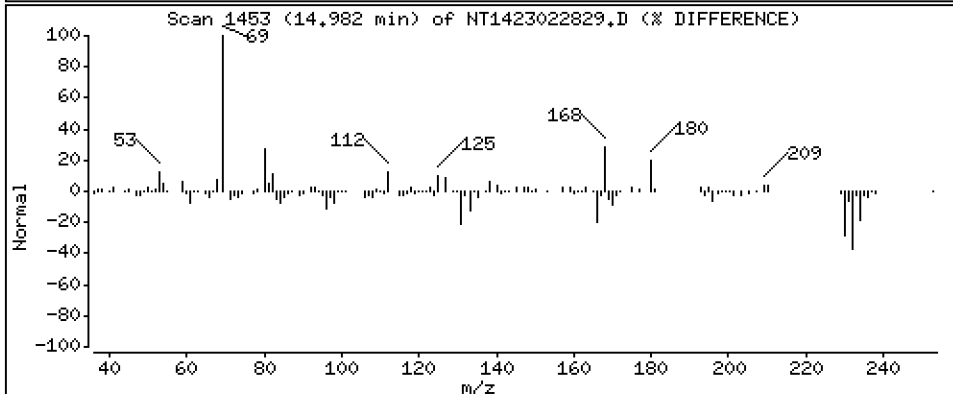
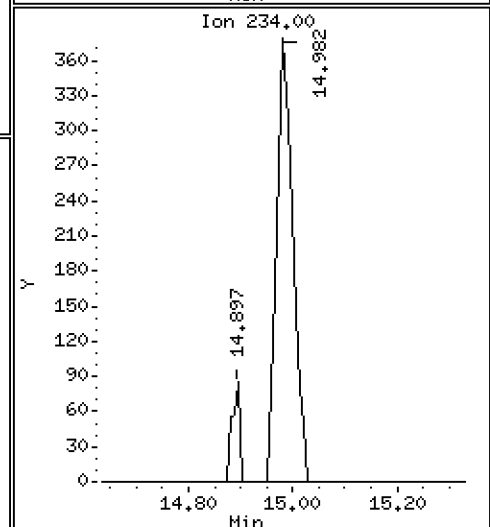
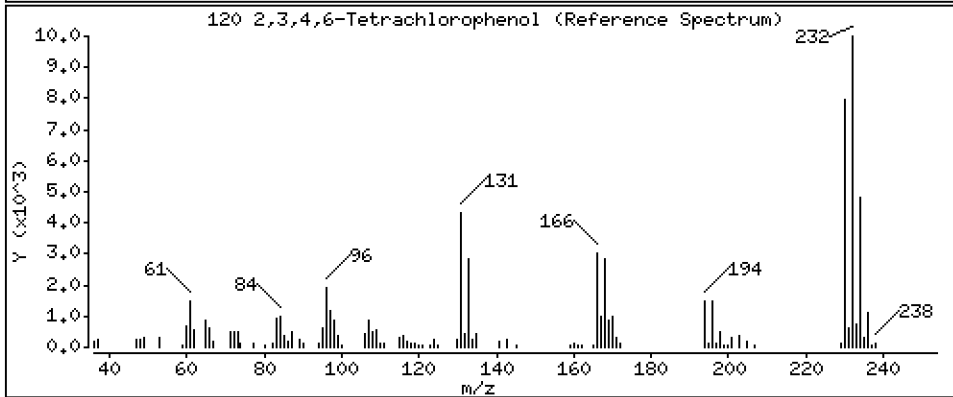
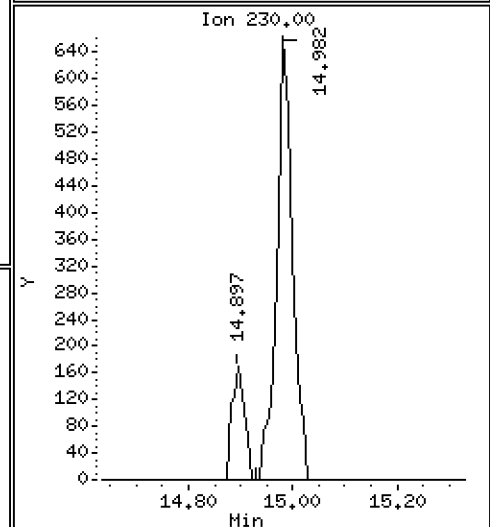
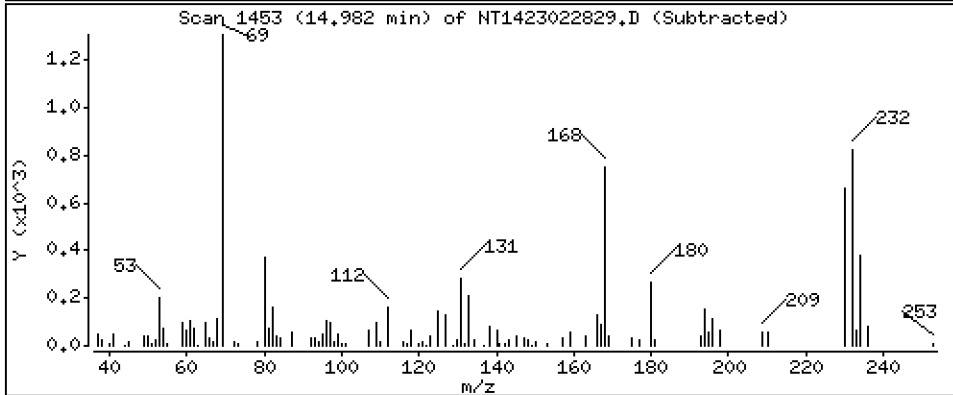
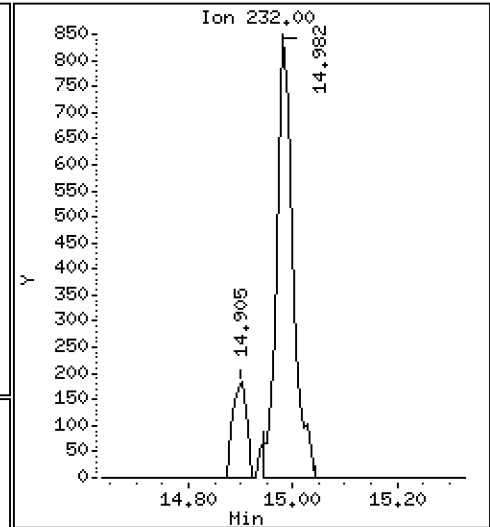
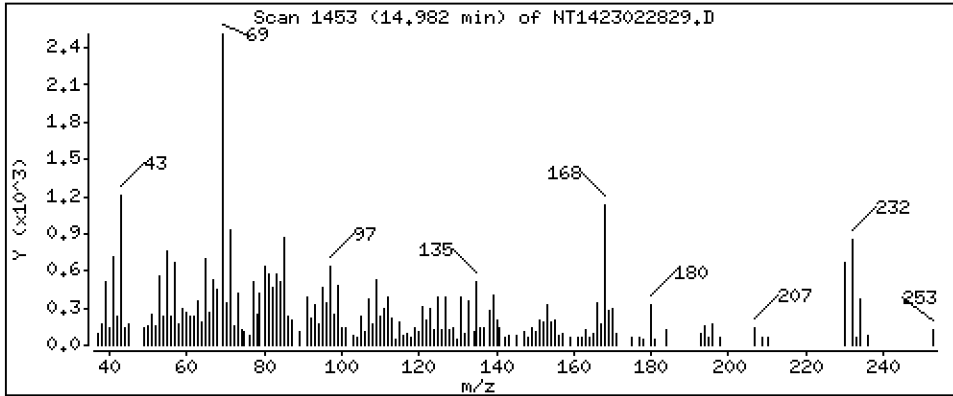
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

120 2,3,4,6-Tetrachlorophenol

Concentration: 0,06398 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230228.b\NT1423022829.D
 Lab Smp Id: BLA0557-SRM1
 Inj Date : 01-MAR-2023 18:28 MS Autotune Date: 17-MAY-2011 01:22
 Operator : JGR Inst ID: nt14.i
 Smp Info : BLA0557-SRM1
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt14.i\20230228.b\ABN.m
 Meth Date : 11-Mar-2023 09:11 van Quant Type: ISTD
 Cal Date : 28-FEB-2023 15:16 Cal File: NT1423022808.D
 Als bottle: 23
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: ICAL.sub
 Target Version: 4.14
 Processing Host: VANS-201906

| Compounds | QUANT | SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|---------------------------------|-------|-----|------------------------|--------|---------|----------|----------------|------------|
| | | | | | | | ON-COLUMN | FINAL |
| | MASS | | | | | | (ug/mL) | (ug/mL) |
| \$ 1 2-Fluorophenol | 112 | | 6.066 | 6.050 | (0.741) | 207275 | 6.44934 | 6.449 |
| \$ 2 Phenol-d5 | 99 | | 7.634 | 7.634 | (0.932) | 288029 | 6.31224 | 6.312 |
| 3 Phenol | 94 | | 7.658 | 7.657 | (0.935) | 141320 | 2.59570 | 2.596 |
| \$ 5 2-Chlorophenol-d4 | 132 | | 7.843 | 7.850 | (0.957) | 227709 | 5.86886 | 5.869 |
| 4 Bis(2-Chloroethyl)ether | 93 | | Compound Not Detected. | | | | | |
| 6 2-Chlorophenol | 128 | | 7.874 | 7.874 | (0.961) | 43079 | 1.07422 | 1.074 |
| 7 1,3-Dichlorobenzene | 146 | | 8.121 | 8.129 | (0.991) | 16268 | 0.36810 | 0.3681 |
| * 8 1,4-Dichlorobenzene-d4 | 152 | | 8.191 | 8.191 | (1.000) | 118527 | 4.00000 | |
| 9 1,4-Dichlorobenzene | 146 | | Compound Not Detected. | | | | | |
| \$ 10 1,2-Dichlorobenzene-d4 | 152 | | 8.540 | 8.548 | (1.043) | 100986 | 3.45727 | 3.457 |
| 12 1,2-Dichlorobenzene | 146 | | Compound Not Detected. | | | | | |
| 11 Benzyl alcohol | 108 | | Compound Not Detected. | | | | | |
| 14 2,2'-oxybis(1-Chloropropane) | 121 | | 8.789 | 8.789 | (1.073) | 13203 | 1.16890 | 1.169 |
| 13 2-Methylphenol | 108 | | 8.742 | 8.742 | (1.067) | 181901 | 5.28867 | 5.289 |
| 17 Hexachloroethane | 117 | | Compound Not Detected. | | | | | |
| 16 N-Nitroso-di-n-propylamine | 70 | | Compound Not Detected. | | | | | |
| 15 4-Methylphenol | 108 | | 9.014 | 9.014 | (1.100) | 229817 | 5.87735 | 5.877 |
| \$ 18 Nitrobenzene-d5 | 82 | | 9.278 | 9.285 | (0.872) | 175180 | 4.14730 | 4.147 |
| 19 Nitrobenzene | 77 | | 9.317 | 9.316 | (0.875) | 79622 | 1.96161 | 1.962 |
| 20 Isophorone | 82 | | 9.767 | 9.774 | (0.918) | 97685 | 1.54718 | 1.547 |
| 21 2-Nitrophenol | 139 | | 9.938 | 9.945 | (0.934) | 104534 | 4.94365 | 4.944 |
| 22 2,4-Dimethylphenol | 107 | | 10.038 | 10.038 | (0.943) | 75283 | 2.03447 | 2.034 |
| 23 Bis(2-Chloroethoxy)methane | 93 | | Compound Not Detected. | | | | | |
| 24 Benzoic acid | 105 | | 10.302 | 10.364 | (0.968) | 7121 | 0.48561 | 0.4856 (M) |
| 25 2,4-Dichlorophenol | 162 | | 10.403 | 10.402 | (0.978) | 223734 | 6.14309 | 6.143 |
| 26 1,2,4-Trichlorobenzene | 180 | | 10.565 | 10.572 | (0.993) | 31689 | 0.75775 | 0.7577 |
| * 27 Naphthalene-d8 | 136 | | 10.642 | 10.649 | (1.000) | 431802 | 4.00000 | |
| 28 Naphthalene | 128 | | 10.688 | 10.688 | (1.004) | 278134 | 2.41481 | 2.415 |
| 29 4-Chloroaniline | 127 | | Compound Not Detected. | | | | | |
| 30 Hexachlorobutadiene | 225 | | 11.059 | 11.066 | (1.039) | 31880 | 1.24929 | 1.249 |
| 31 4-Chloro-3-methylphenol | 107 | | 11.841 | 11.840 | (1.113) | 72786 | 2.18524 | 2.185 |
| 32 2-Methylnaphthalene | 142 | | Compound Not Detected. | | | | | |
| 33 Hexachlorocyclopentadiene | 237 | | Compound Not Detected. | | | | | |

| Compounds | QUANT | SIG | | | | | | CONCENTRATIONS | |
|-----------------------------------|-------|-----|------------------------|--------|---------|--------|----------|----------------------|------------------|
| | | | MASS | RT | EXP RT | REL RT | RESPONSE | ON-COLUMN (ug/mL) | FINAL (ug/mL) |
| 34 2,4,6-Trichlorophenol | 196 | | 12.715 | 12.715 | (0.893) | 54443 | 2.26780 | 2.268 | |
| 35 2,4,5-Trichlorophenol | 196 | | 12.792 | 12.792 | (0.899) | 94932 | 3.65733 | 3.657 | |
| § 36 2-Fluorobiphenyl | 172 | | 12.870 | 12.877 | (0.904) | 384747 | 4.02229 | 4.022 | |
| 37 2-Chloronaphthalene | 162 | | 13.056 | 13.063 | (0.917) | 147763 | 1.92703 | 1.927 | |
| 38 2-Nitroaniline | 65 | | Compound Not Detected. | | | | | | |
| 39 Dimethylphthalate | 163 | | 13.791 | 13.798 | (0.969) | 414655 | 5.36413 | 5.364 | |
| 40 Acenaphthylene | 152 | | 13.915 | 13.922 | (0.978) | 179374 | 1.59422 | 1.594 | |
| 41 2,6-Dinitrotoluene | 165 | | Compound Not Detected. | | | | | | |
| * 42 Acenaphthene-d10 | 164 | | 14.232 | 14.232 | (1.000) | 245761 | 4.00000 | | |
| 43 3-Nitroaniline | 138 | | Compound Not Detected. | | | | | | |
| 44 Acenaphthene | 153 | | 14.294 | 14.301 | (1.004) | 347273 | 4.82067 | 4.821 | |
| 45 2,4-Dinitrophenol | 184 | | 14.410 | 14.417 | (1.012) | 48093 | 4.16342 | 4.163 | |
| 46 Dibenzofuran | 168 | | 14.626 | 14.626 | (1.028) | 641971 | 5.60066 | 5.601 | |
| 47 4-Nitrophenol | 109 | | 14.580 | 14.579 | (1.024) | 74191 | 7.90419 | 7.904 | |
| 48 2,4-Dinitrotoluene | 165 | | 14.711 | 14.726 | (1.034) | 95964 | 3.67990 | 3.680 | |
| 50 Diethylphthalate | 149 | | 15.245 | 15.252 | (1.071) | 26260 | 0.36327 | 0.3633 | |
| 49 Fluorene | 166 | | 15.330 | 15.330 | (1.077) | 340925 | 3.53005 | 3.530 | |
| 51 4-Chlorophenyl-phenylether | 204 | | 15.345 | 15.345 | (1.078) | 102247 | 1.98976 | 1.990 | |
| 52 4-Nitroaniline | 138 | | Compound Not Detected. | | | | | | |
| 53 4,6-Dinitro-2-methylphenol | 198 | | 15.538 | 15.553 | (0.901) | 120761 | 7.63700 | 7.637 | |
| 54 N-Nitrosodiphenylamine | 169 | | 15.600 | 15.607 | (0.905) | 105951 | 1.77936 | 1.779 | |
| § 55 2,4,6-Tribromophenol | 330 | | 15.862 | 15.870 | (1.115) | 98757 | 7.25237 | 7.252 | |
| 56 4-Bromophenyl-phenylether | 248 | | 16.332 | 16.340 | (0.947) | 184843 | 7.06098 | 7.061 | |
| 57 Hexachlorobenzene | 284 | | Compound Not Detected. | | | | | | |
| 58 Pentachlorophenol | 266 | | 16.998 | 17.005 | (0.986) | 60071 | 4.35338 | 4.353 | |
| * 59 Phenanthrene-d10 | 188 | | 17.237 | 17.237 | (1.000) | 473833 | 4.00000 | | |
| 60 Phenanthrene | 178 | | 17.284 | 17.291 | (1.003) | 594957 | 4.72001 | 4.720 | |
| 61 Anthracene | 178 | | 17.377 | 17.384 | (1.008) | 274439 | 2.30304 | 2.303 | |
| 62 Carbazole | 167 | | 17.725 | 17.732 | (1.028) | 621907 | 5.95468 | 5.955 | |
| 63 Di-n-butylphthalate | 149 | | 18.584 | 18.583 | (1.078) | 244598 | 1.82479 | 1.825 | |
| 64 Fluoranthene | 202 | | 19.706 | 19.705 | (0.881) | 348423 | 2.65169 | 2.652 | |
| 65 Pyrene | 202 | | 20.131 | 20.139 | (0.900) | 438148 | 3.16274 | 3.163 | |
| § 66 Terphenyl-d14 | 244 | | 20.464 | 20.471 | (0.915) | 512837 | 4.80798 | 4.808 | |
| 67 Butylbenzylphthalate | 149 | | 21.432 | 21.439 | (0.958) | 202311 | 4.19353 | 4.194 | |
| 68 Benzo(a)anthracene | 228 | | 22.330 | 22.330 | (0.999) | 686891 | 5.92087 | 5.921 | |
| * 69 Chrysene-d12 | 240 | | 22.361 | 22.361 | (1.000) | 346329 | 4.00000 | | |
| 70 3,3'-Dichlorobenzidine | 252 | | Compound Not Detected. | | | | | | |
| 71 Chrysene | 228 | | 22.400 | 22.407 | (1.002) | 158749 | 1.42363 | 1.424 | |
| 72 bis(2-Ethylhexyl)phthalate | 149 | | 22.485 | 22.492 | (0.958) | 212050 | 2.61699 | 2.617 | |
| * 134 Di-n-octylphthalate-d4 | 153 | | 23.468 | 23.468 | (1.000) | 532201 | 4.00000 | | |
| 73 Di-n-octylphthalate | 149 | | 23.476 | 23.483 | (1.000) | 330503 | 2.35861 | 2.359 | |
| 74 Benzo(b)fluoranthene | 252 | | 24.095 | 24.103 | (0.975) | 406744 | 2.96869 | 2.969 | |
| 75 Benzo(k)fluoranthene | 252 | | 24.126 | 24.134 | (0.976) | 372722 | 2.52159 | 2.522 | |
| 76 Benzo(a)pyrene | 252 | | 24.614 | 24.621 | (0.996) | 557224 | 4.74044 | 4.740 | |
| * 77 Perylene-d12 | 264 | | 24.707 | 24.707 | (1.000) | 414695 | 4.00000 | | |
| 78 Indeno(1,2,3-cd)pyrene | 276 | | 26.777 | 26.784 | (1.084) | 386365 | 2.61114 | 2.611 | |
| 79 Dibenzo(a,h)anthracene | 278 | | 26.792 | 26.792 | (1.084) | 316065 | 2.51496 | 2.515 | |
| 80 Benzo(g,h,i)perylene | 276 | | 27.367 | 27.375 | (1.108) | 88881 | 0.68871 | 0.6887 | |
| 90 N-Nitrosodimethylamine | 74 | | 4.027 | 3.988 | (0.492) | 16448 | 0.67686 | 0.6769 | |
| 91 Aniline | 93 | | Compound Not Detected. | | | | | | |
| 93 Benzidine | 184 | | Compound Not Detected. | | | | | | |
| 103 Pyridine | 79 | | Compound Not Detected. | | | | | | |
| 105 1-methylnaphthalene | 142 | | Compound Not Detected. | | | | | | |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77 | | Compound Not Detected. | | | | | | |

| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|-------------------------------|-----------|--------|--------|---------|----------|----------------------|------------------|
| | | | | | | ON-COLUMN (ug/mL) | FINAL (ug/mL) |
| 187 Total Benzofluoranthenes | 252 | 24.095 | 24.134 | (0.975) | 730499 | 5.45039 | 5.450 |
| 120 2,3,4,6-Tetrachlorophenol | 232 | 14.982 | 14.981 | (1.053) | 1768 | 0.06398 | 0.06398 |

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 01-MAR-2023
 Lab File ID: NT1423022829.D Calibration Time: 13:39
 Lab Smp Id: BLA0557-SRM1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: JGR
 Method File: \\target\share\chem3\nt14.i\20230228.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|--------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 125853 | 62927 | 251706 | 118527 | -5.82 |
| 27 Naphthalene-d8 | 454961 | 227481 | 909922 | 431802 | -5.09 |
| 42 Acenaphthene-d10 | 273779 | 136890 | 547558 | 245761 | -10.23 |
| 59 Phenanthrene-d10 | 520384 | 260192 | 1040768 | 473833 | -8.95 |
| 69 Chrysene-d12 | 399183 | 199592 | 798366 | 346329 | -13.24 |
| 134 Di-n-octylphthala | 602810 | 301405 | 1205620 | 532201 | -11.71 |
| 77 Perylene-d12 | 478887 | 239444 | 957774 | 414695 | -13.40 |

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

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

REVIEW SUMMARY FOR FILE - NT1423022829.D

Lab ID: BLA0557-SRM1
nt14.i, ABN.m, 01-MAR-2023 18:28

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT | CCV RRT | DELTA | COMPOUND |
|-------|---------|---------|--------------|
| 0.968 | 0.973 | -0.0051 | Benzoic acid |

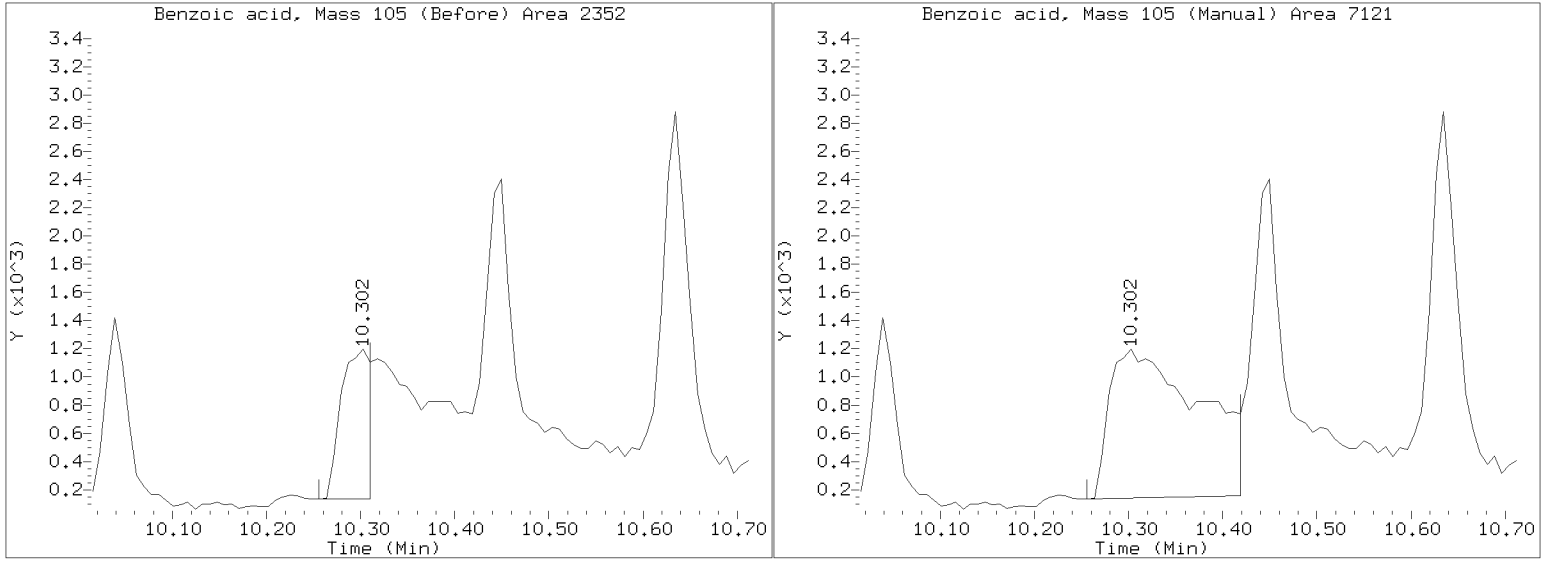
RRT check based on Ccal File: NT1423022821.D

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

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230228.b/NT1423022829.D
Injection Date: 01-MAR-2023 18:28
Lab ID:BLA0557-SRM1 Client ID:
Report Date: 03/11/2023 09:12





STANDARD REFERENCE MATERIAL RECOVERY

EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Matrix: Solid

Laboratory ID: BLC0442-SRM1

Batch: BLC0442

Initial/Final: 1 g / 1 mL

Preparation: EPA 3546 (Microwave)

Analyzed: 03/22/2023 22:10

Standard ID: K003477

Expires: 01/31/2024

Standard Lot#: CRM 143 (LRAC8918)

Description: CRM 143 BNAs - Sandy Loam

| ANALYTE | TRUE (ug/kg wet) | FOUND (ug/kg wet) | MDL | MRL | Q | SRM % REC. | QC LIMITS REC. |
|----------------------------|---------------------|----------------------|------|-----|---|------------------|----------------------|
| Phenol | 2660.0 | 2540 | 43.9 | 200 | | 95.4 | 26 - 174 |
| 4-Methylphenol | 6617.0 | 7010 | 73.9 | 200 | | 106 | 40 - 160 |
| Naphthalene | 4458.0 | 4040 | 42.4 | 200 | | 90.6 | 25 - 175 |
| Acenaphthylene | 1948.0 | 1790 | 62.4 | 200 | | 91.9 | 37 - 167 |
| Dimethylphthalate | 4537.0 | 4980 | 43.9 | 200 | | 110 | 41 - 159 |
| Acenaphthene | 5489.0 | 5530 | 52.2 | 200 | | 101 | 41 - 159 |
| Dibenzofuran | 6130.0 | 6350 | 141 | 200 | | 104 | 45 - 155 |
| Fluorene | 3724.0 | 3870 | 146 | 200 | | 104 | 44 - 156 |
| Phenanthrene | 5052.0 | 4950 | 87.2 | 200 | | 97.9 | 46 - 154 |
| Anthracene | 2866.0 | 2410 | 71.9 | 200 | | 84.0 | 42 - 158 |
| Fluoranthene | 2497.0 | 2420 | 60.9 | 200 | | 96.9 | 39 - 161 |
| Pyrene | 2964.0 | 3010 | 56.8 | 200 | | 101 | 38 - 162 |
| Butylbenzylphthalate | 3511.0 | 4110 | 94.1 | 200 | | 117 | 36 - 164 |
| Benzo(a)anthracene | 5751.0 | 5950 | 59.6 | 200 | | 103 | 49 - 151 |
| Chrysene | 1477.0 | 1370 | 60.6 | 200 | | 92.8 | 45 - 155 |
| bis(2-Ethylhexyl)phthalate | 2905.0 | 2760 | 54.6 | 500 | | 95.0 | 26 - 174 |
| Benzofluoranthenes, Total | 6534.0 | 5640 | 100 | 400 | | 86.4 | 40 - 160 |
| Benzo(a)pyrene | 5902.0 | 5030 | 42.3 | 200 | | 85.3 | 43 - 157 |
| Indeno(1,2,3-cd)pyrene | 3914.0 | 3950 | 147 | 200 | | 101 | 22 - 178 |
| Dibenzo(a,h)anthracene | 3420.0 | 3630 | 172 | 200 | | 106 | 37 - 163 |
| Benzo(g,h,i)perylene | 1380.0 | 1420 | 136 | 200 | | 103 | 35 - 165 |

* Values outside of QC limits

Data File: \\target\share\chem3\nt10.1\20230322.16\NT1003222309.D

Date: 22-MAR-2023 22:10

Client ID:

Sample Info: BLC0442-SRM1

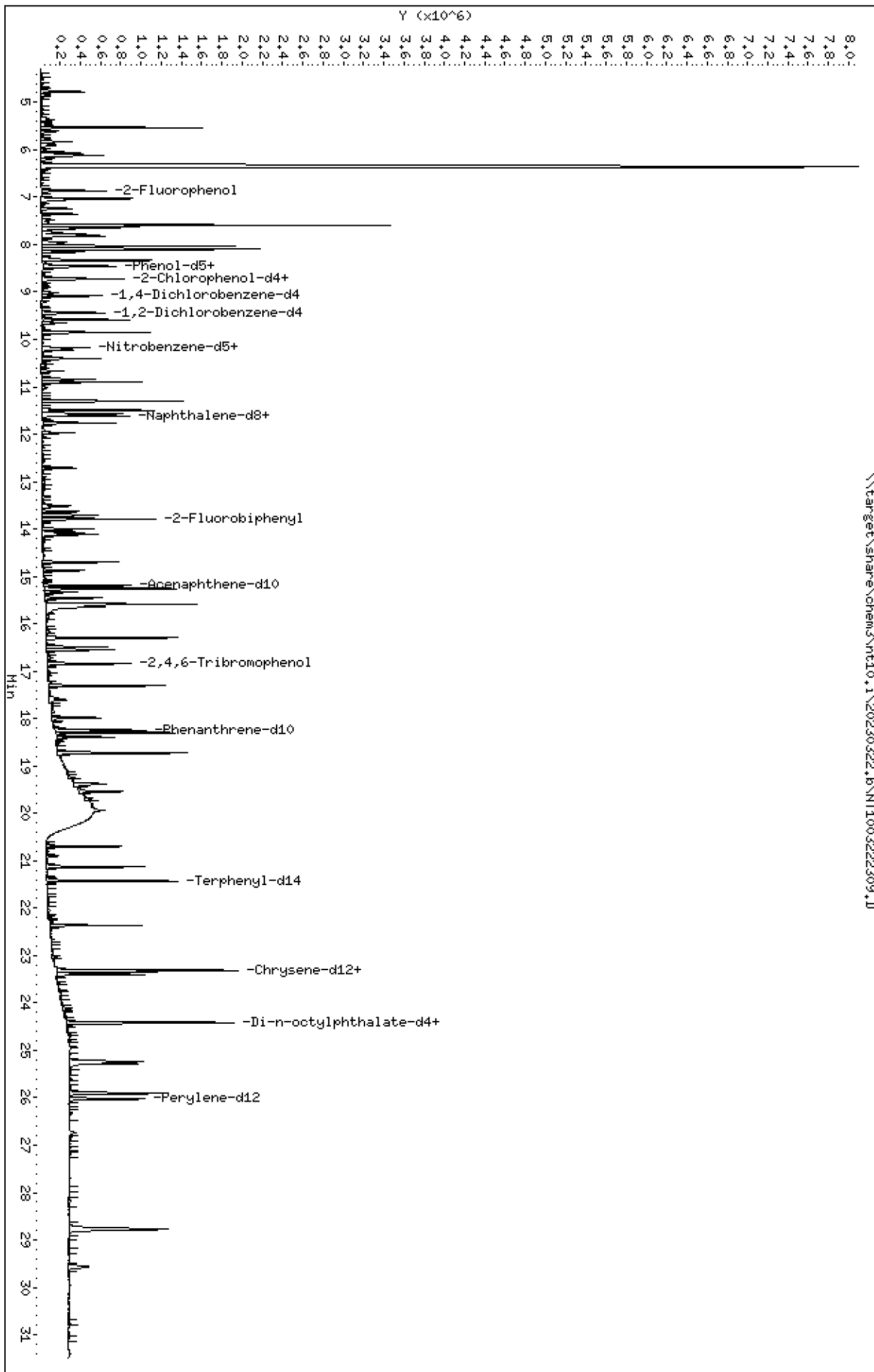
Page 1

Column phase: ZB-5msi

Instrument: nt10.1

Operator: VTS

Column diameter: 0.25



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

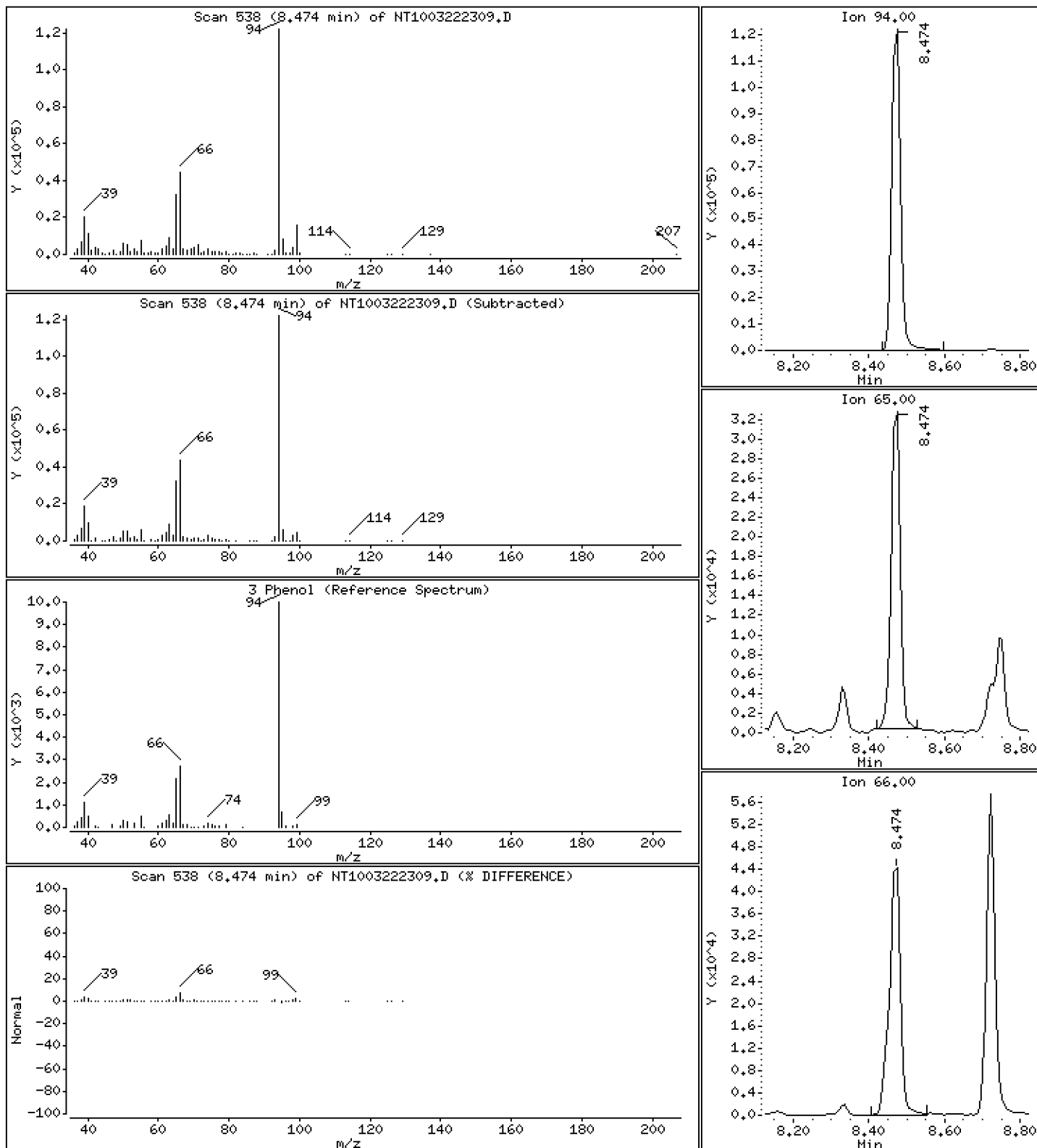
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 2,537 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

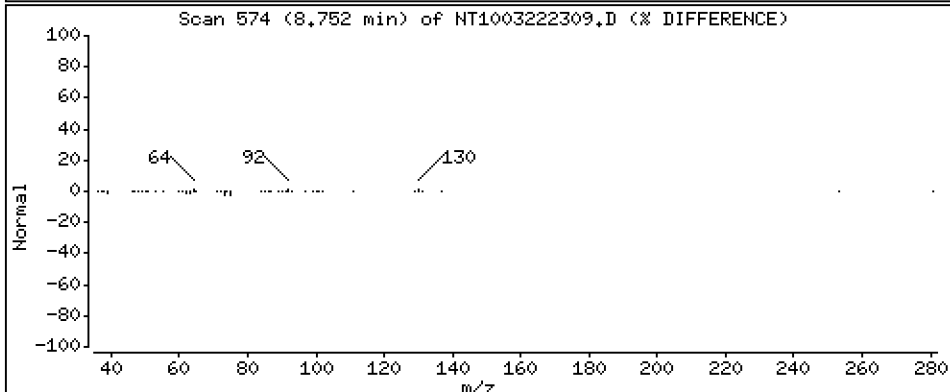
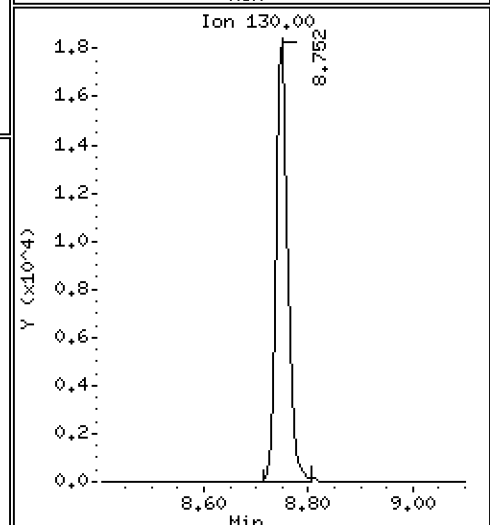
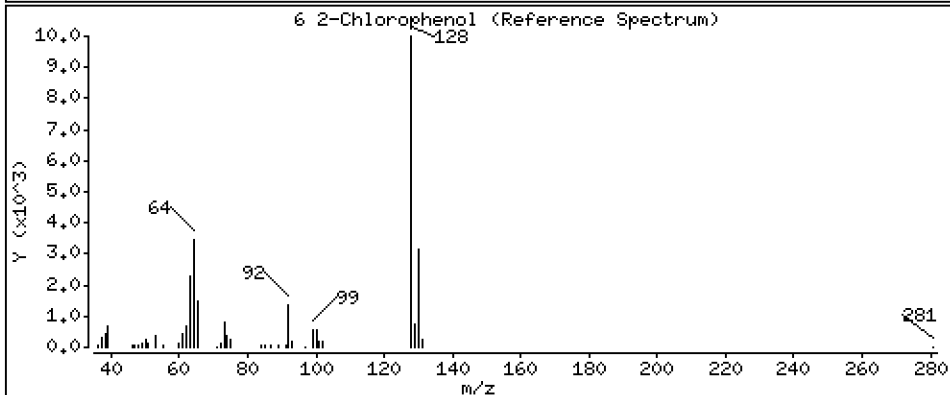
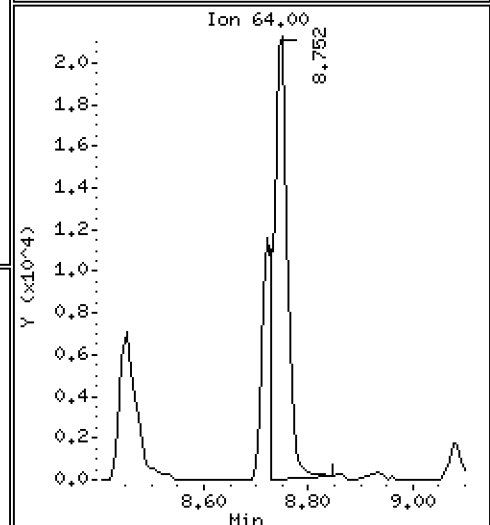
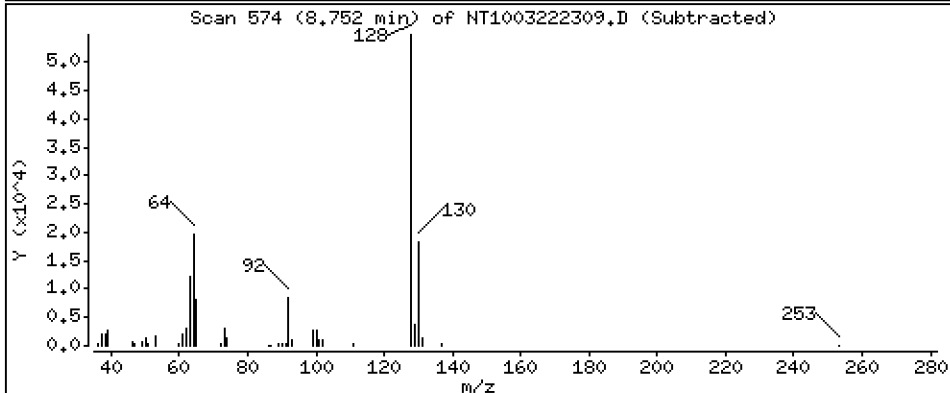
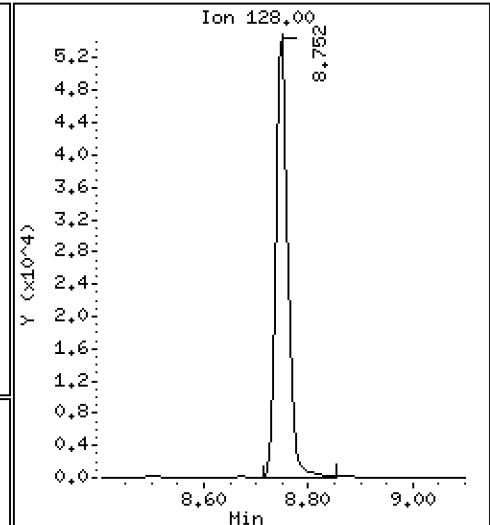
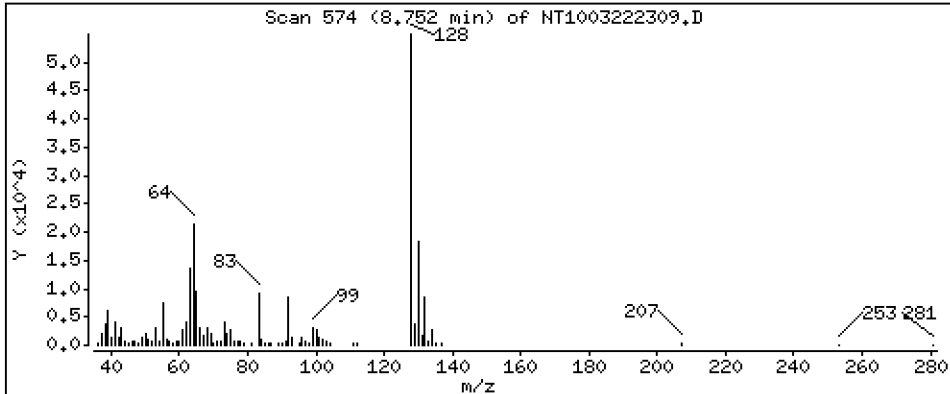
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 1,403 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

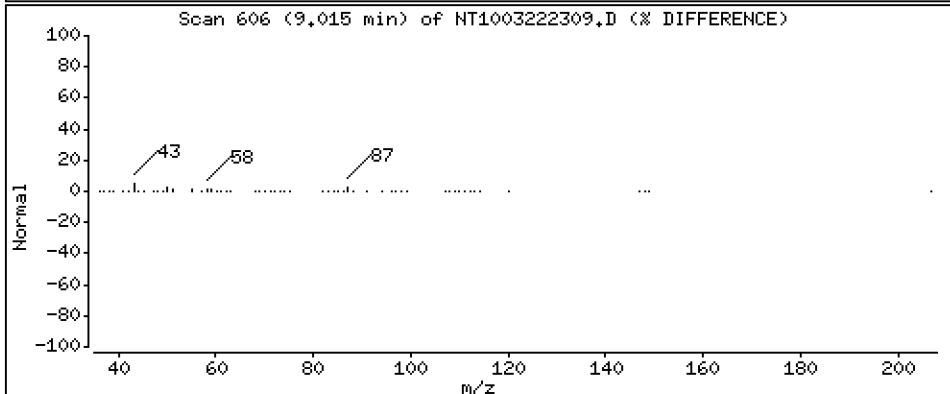
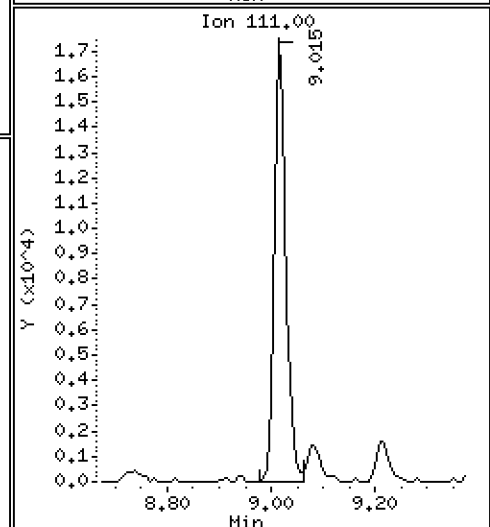
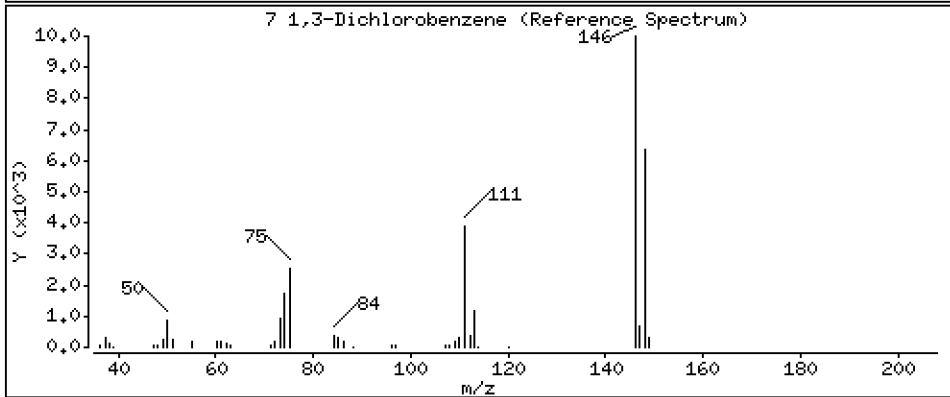
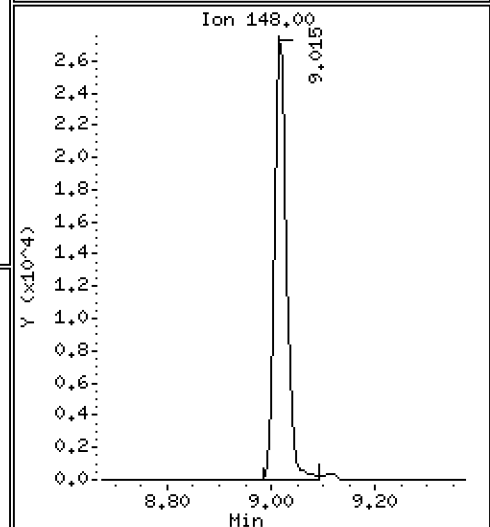
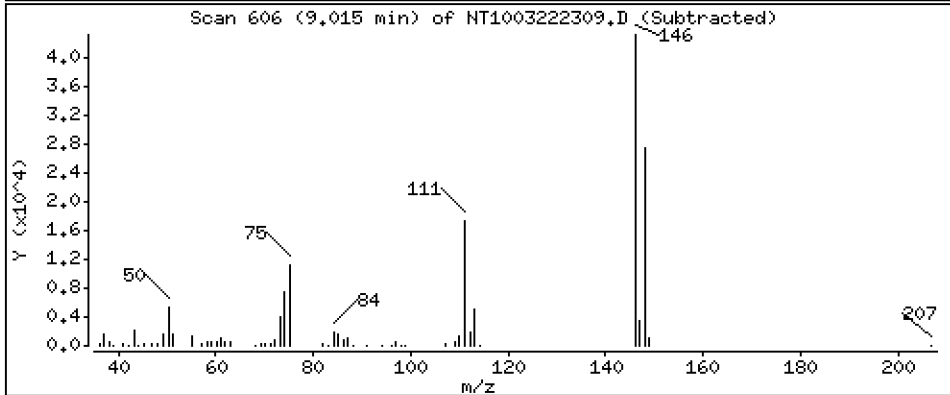
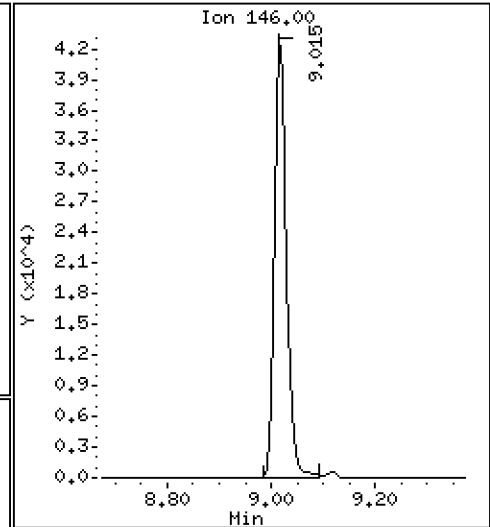
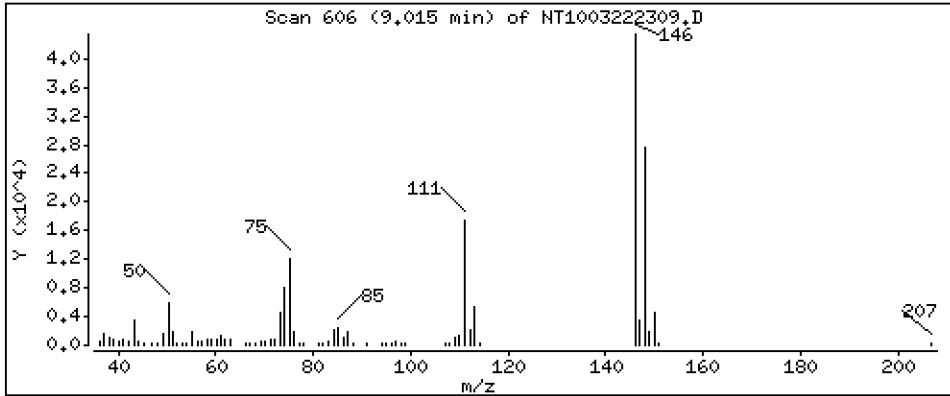
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

7 1,3-Dichlorobenzene

Concentration: 1.049 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

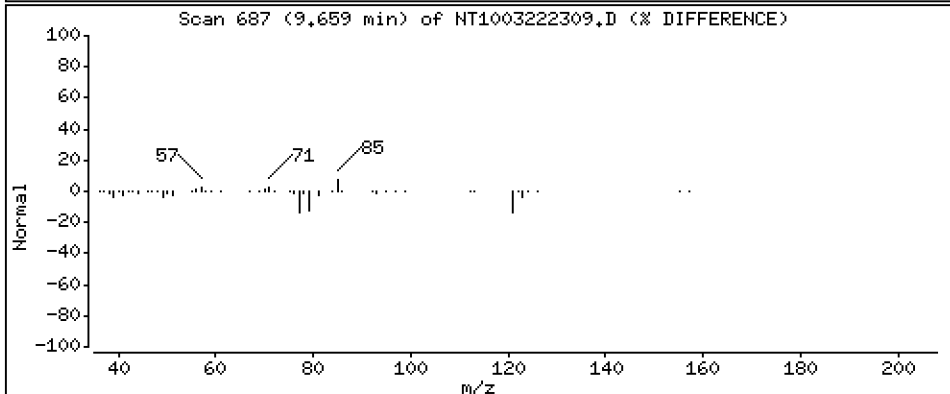
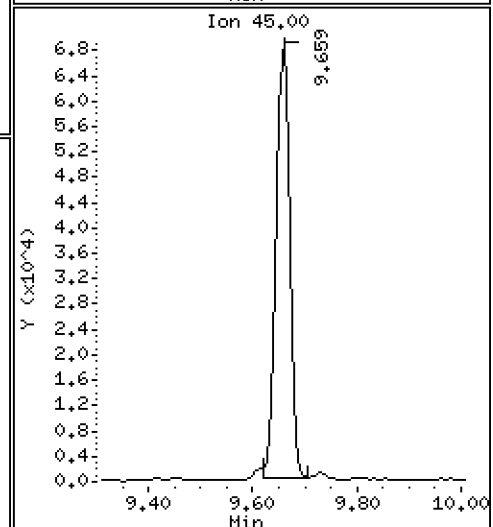
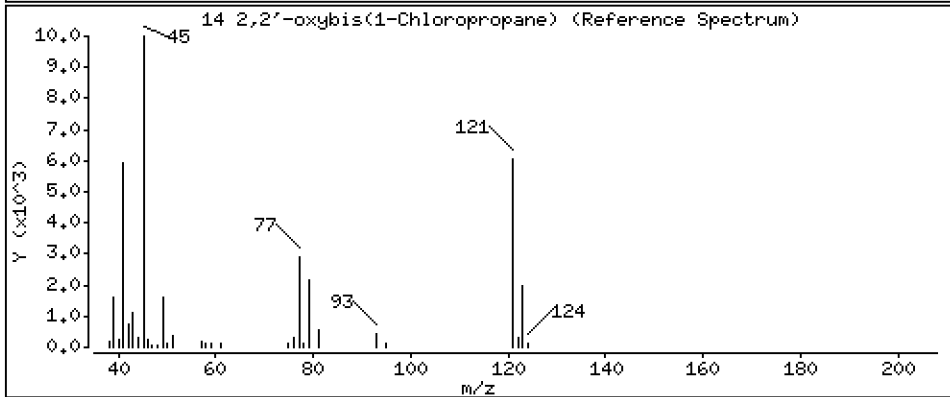
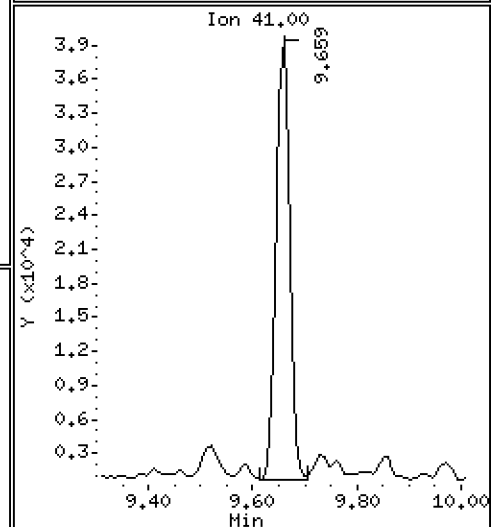
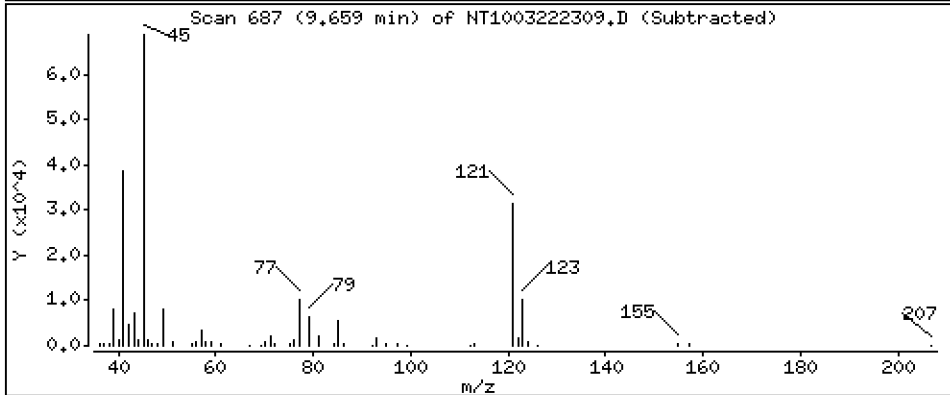
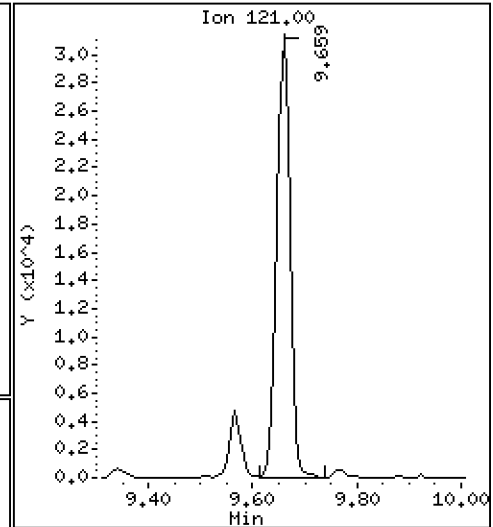
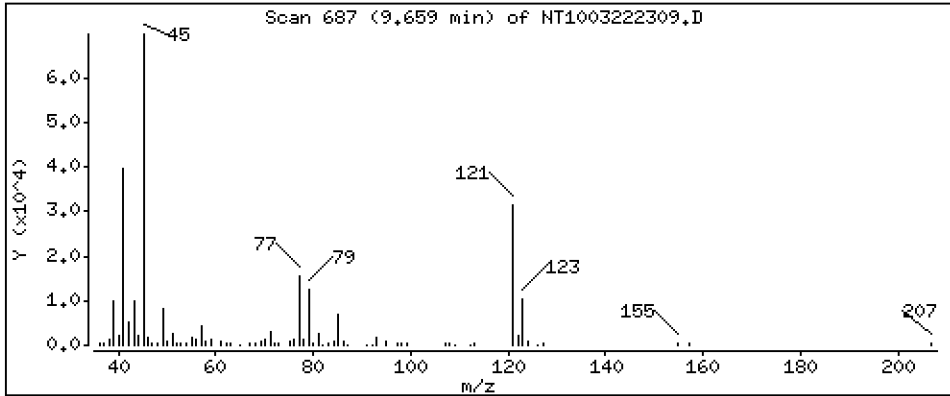
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 2,925 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

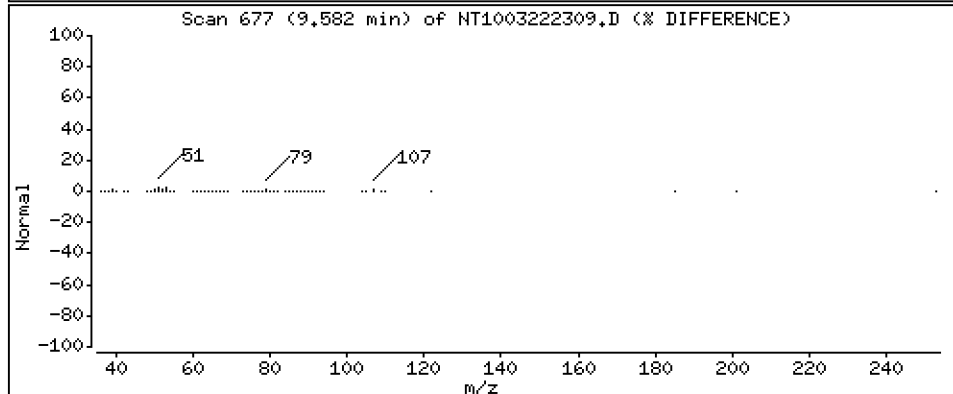
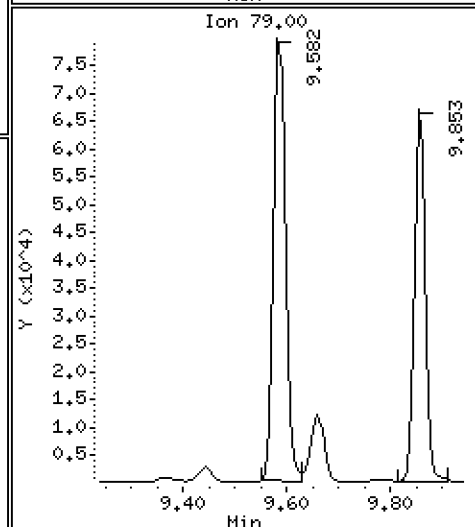
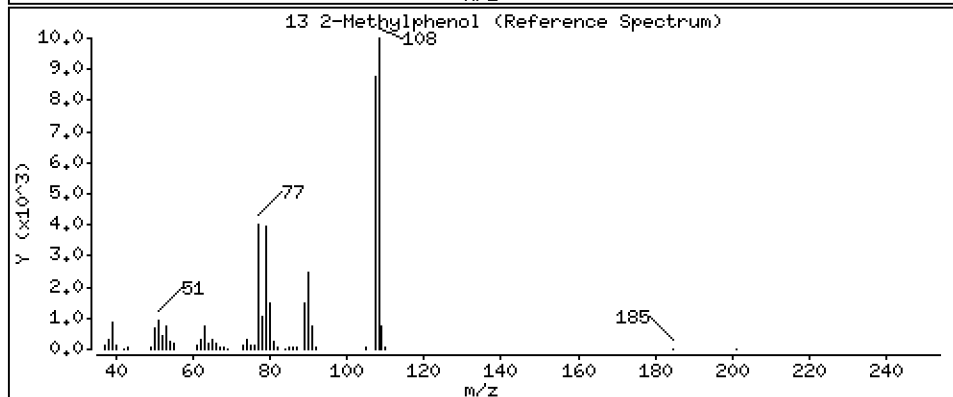
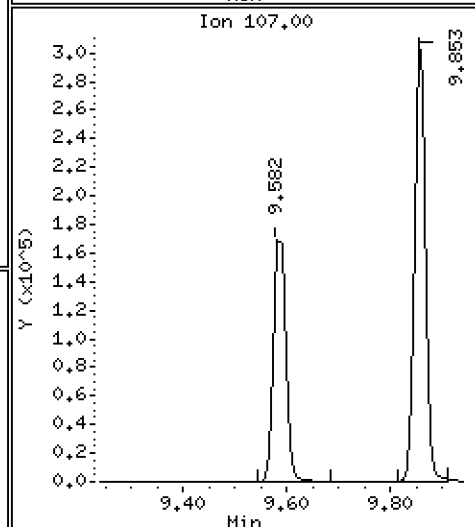
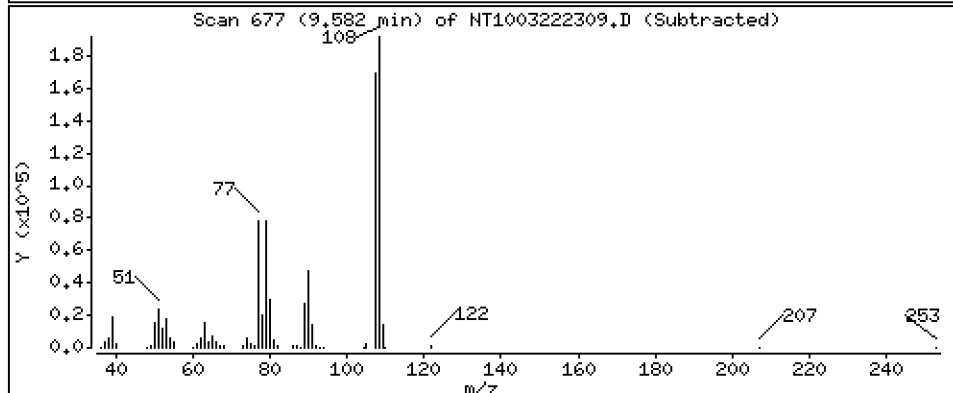
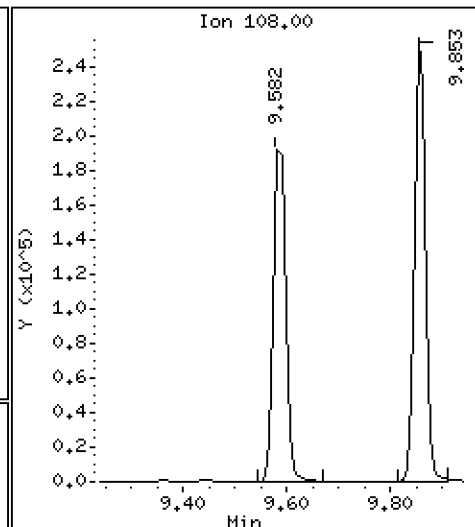
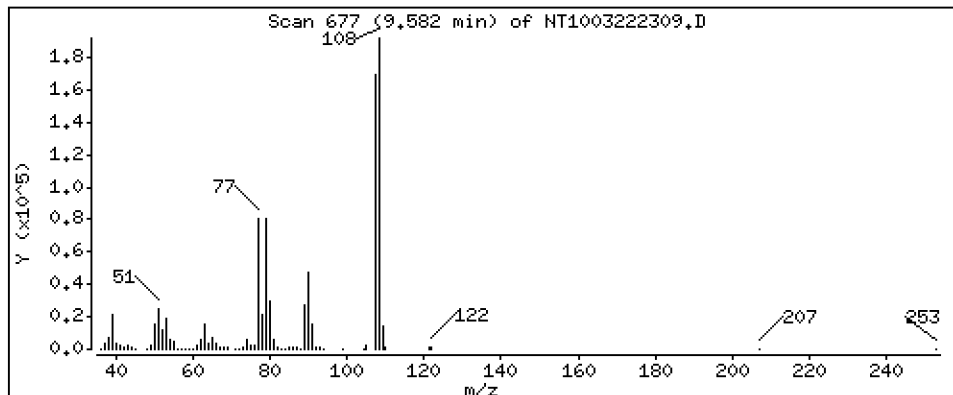
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

13 2-Methylphenol

Concentration: 5,677 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

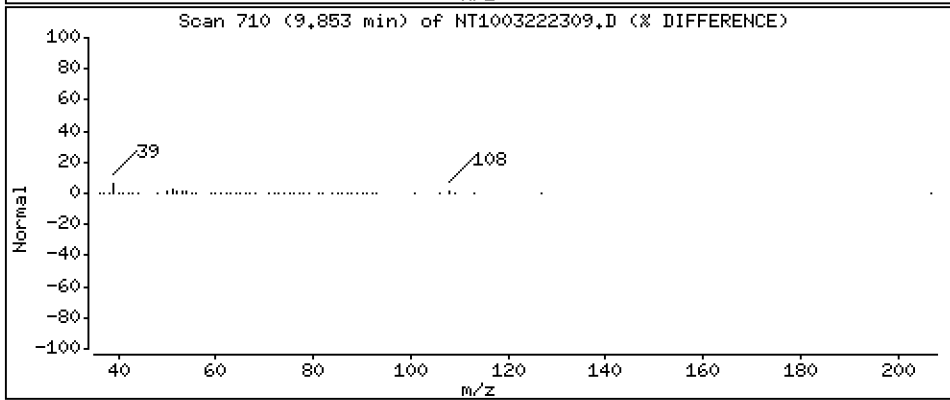
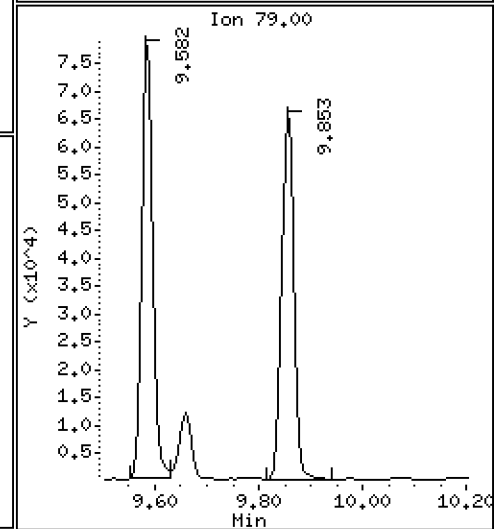
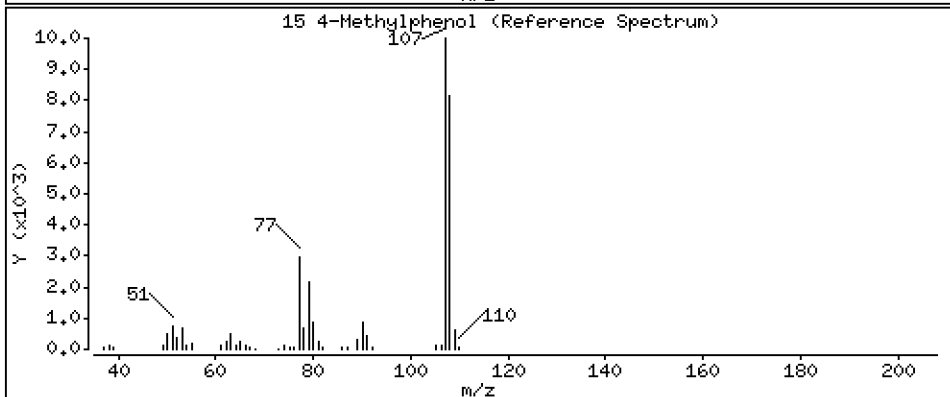
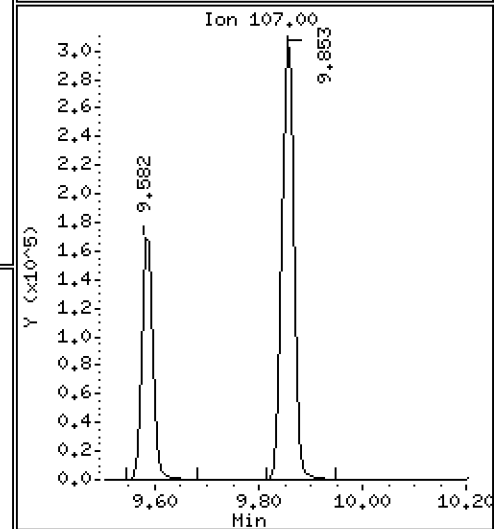
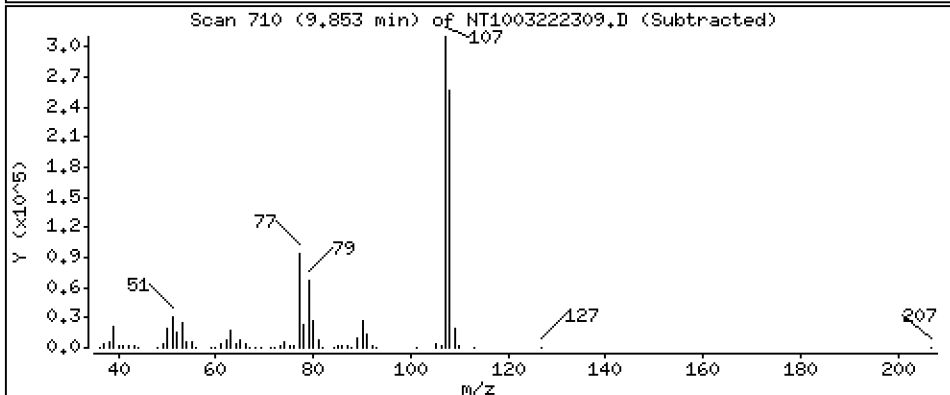
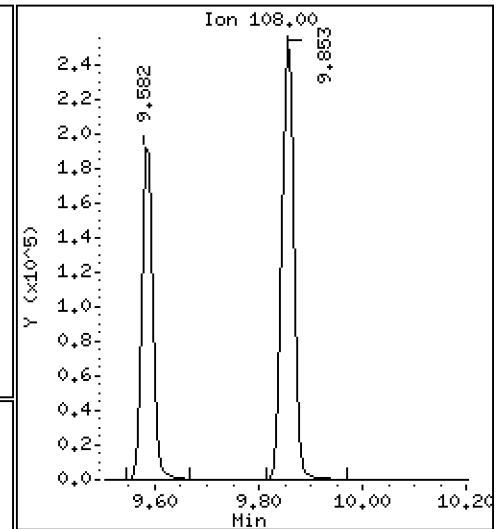
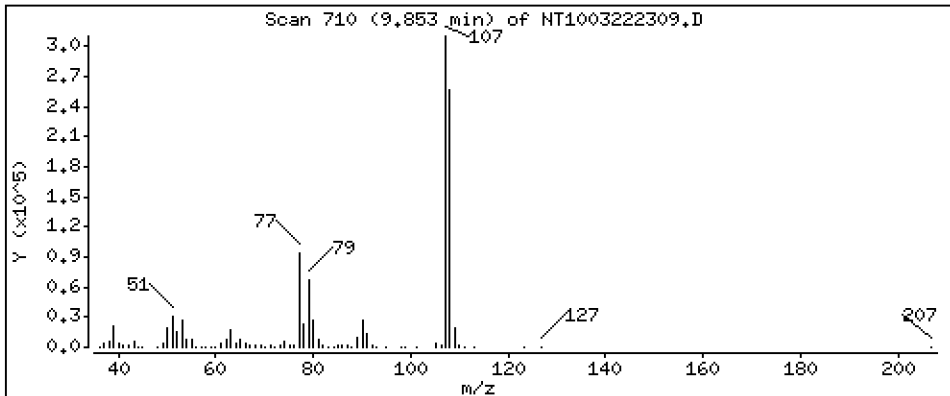
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

15 4-Methylphenol

Concentration: 7,007 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

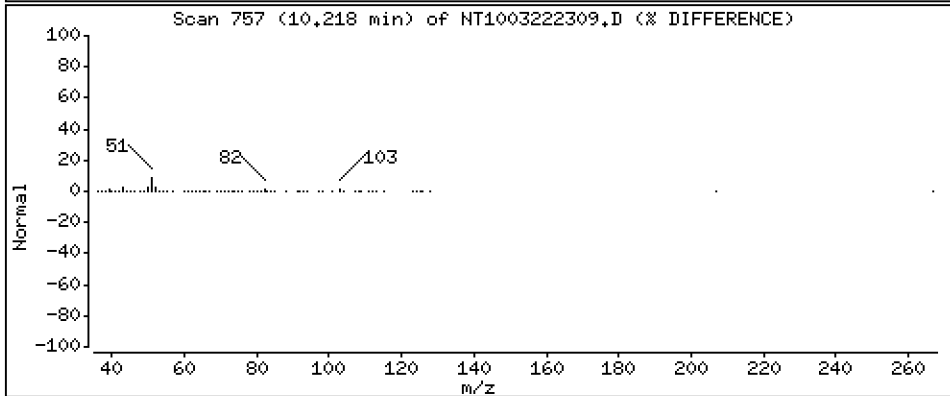
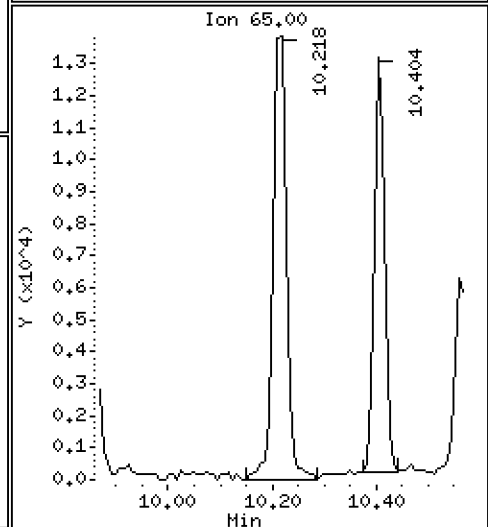
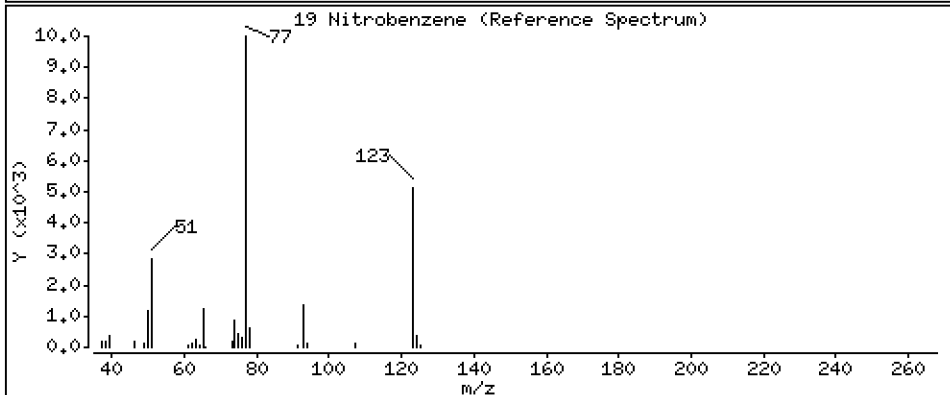
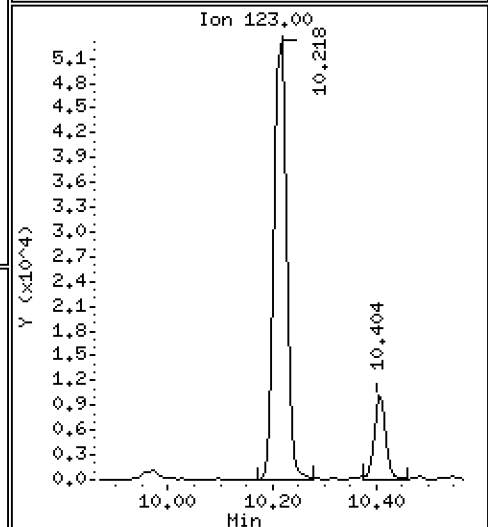
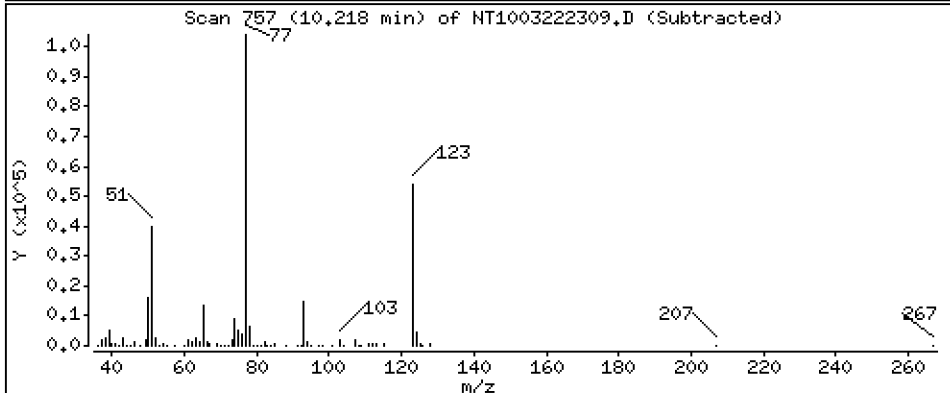
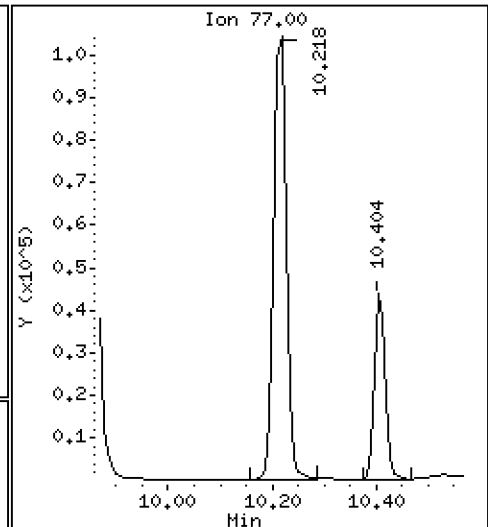
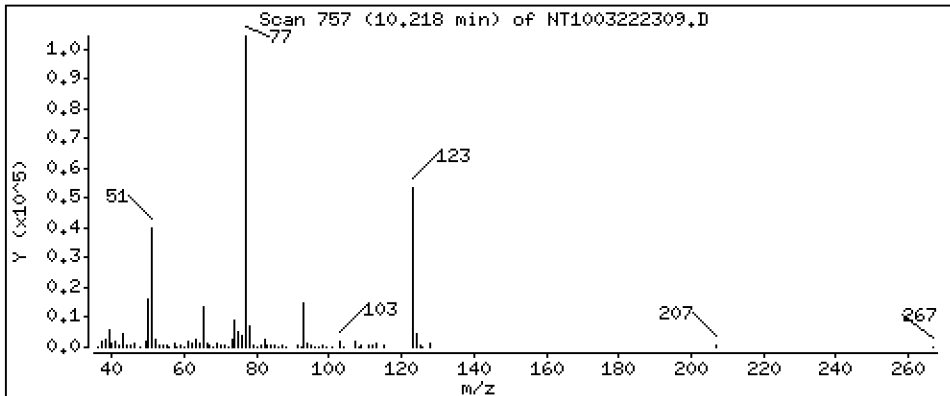
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

19 Nitrobenzene

Concentration: 2,690 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

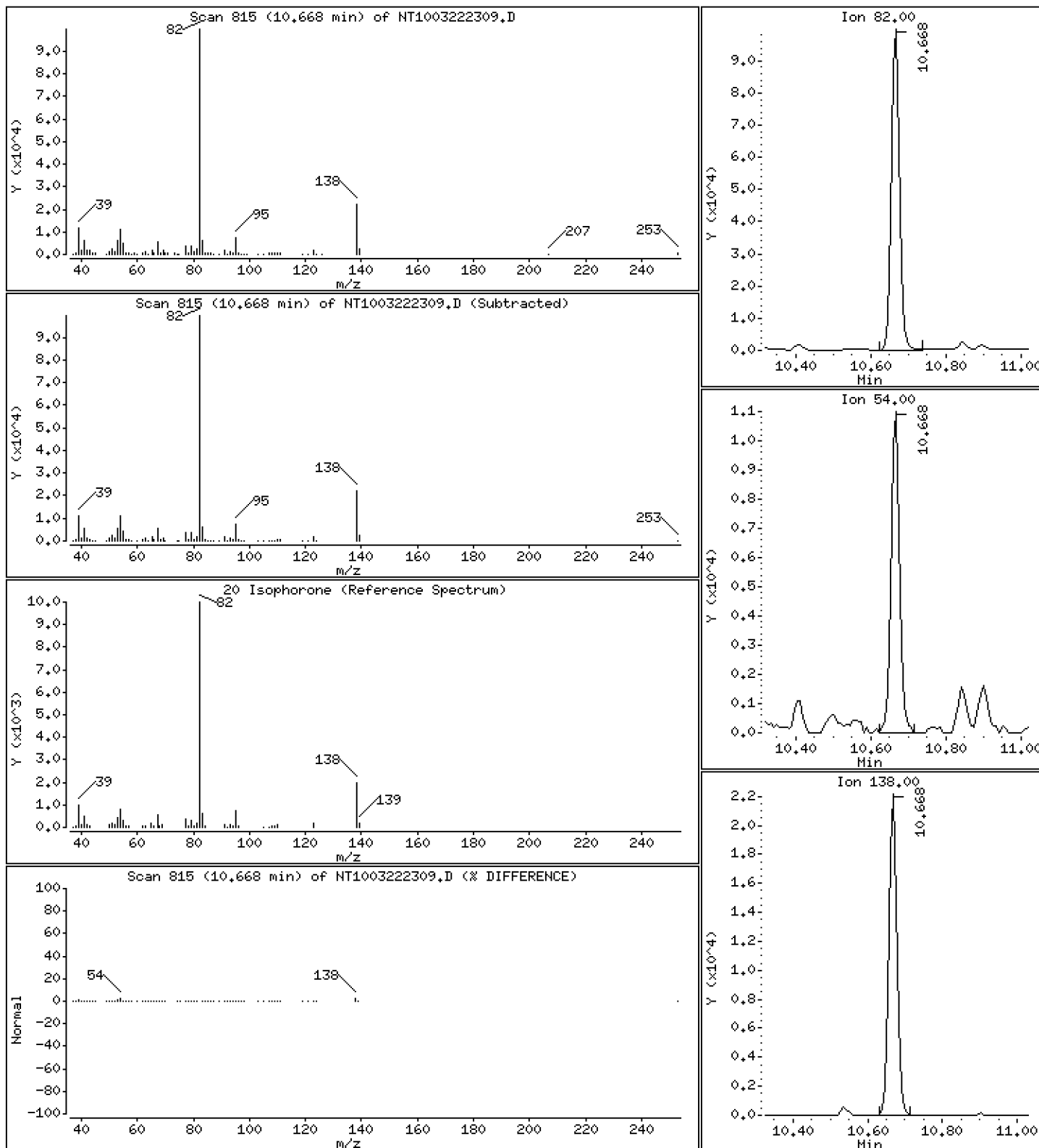
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

20 Isophorone

Concentration: 1,972 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

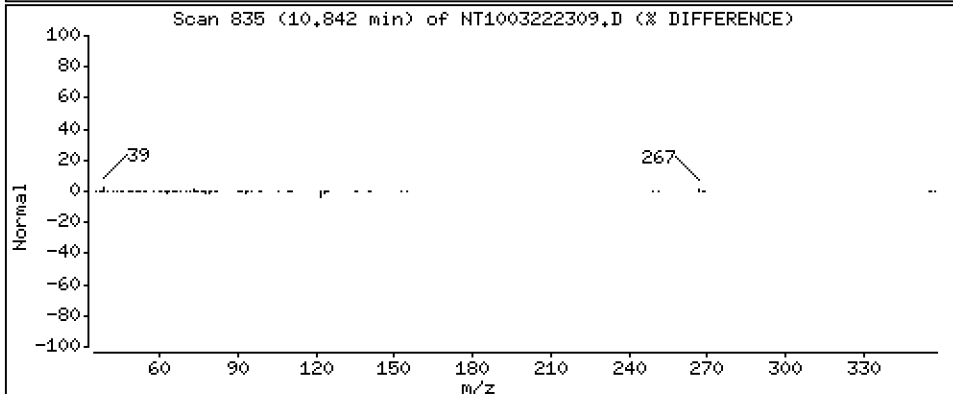
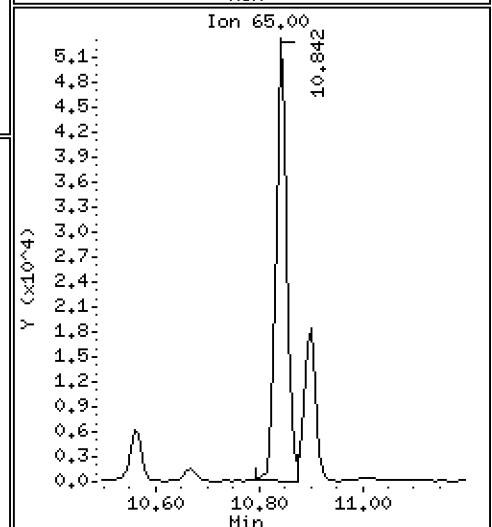
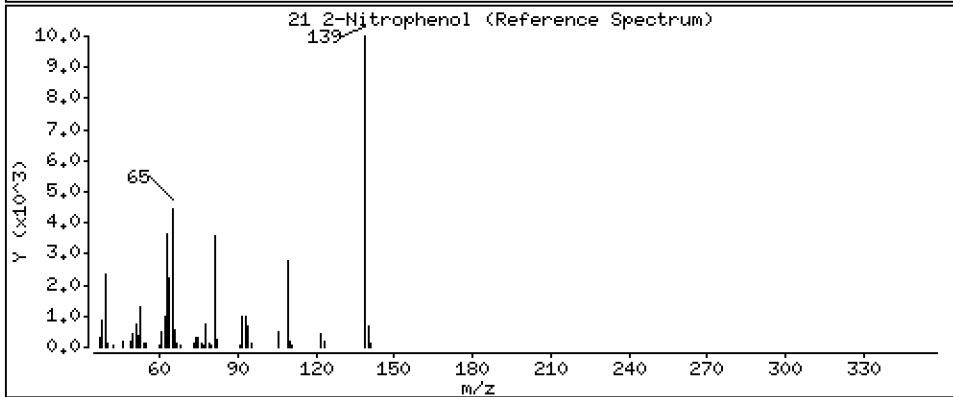
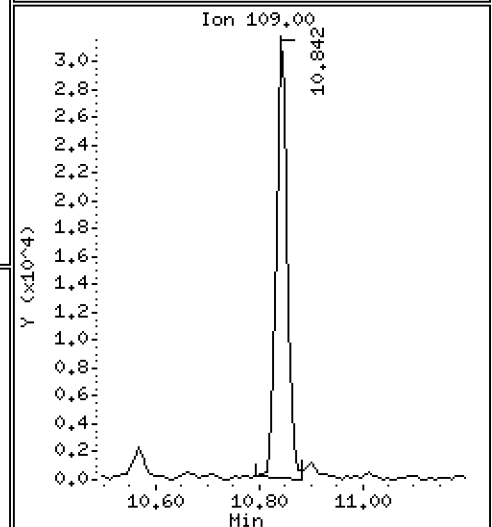
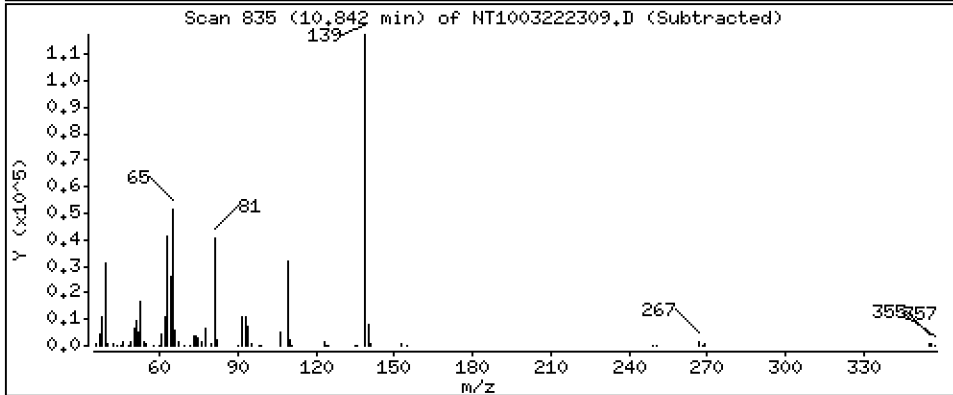
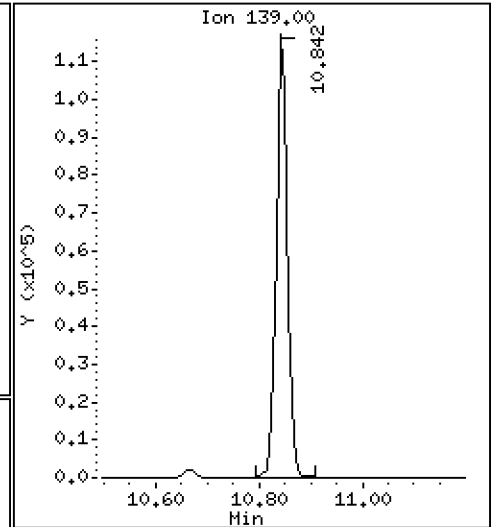
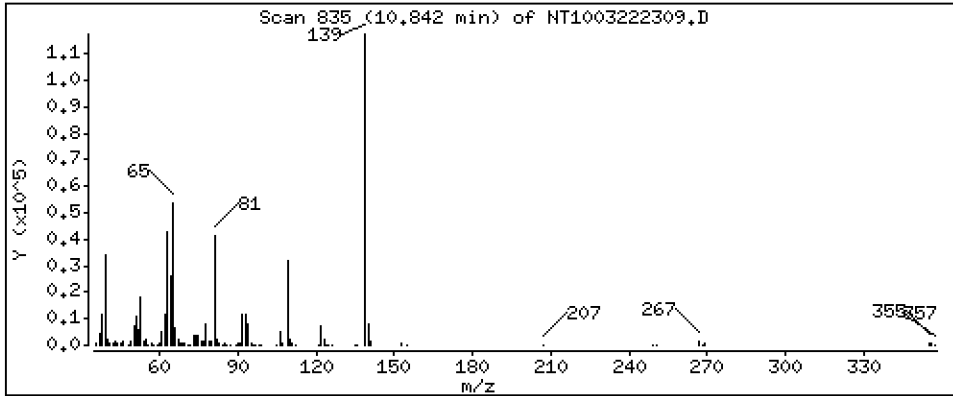
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

21 2-Nitrophenol

Concentration: 6,827 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

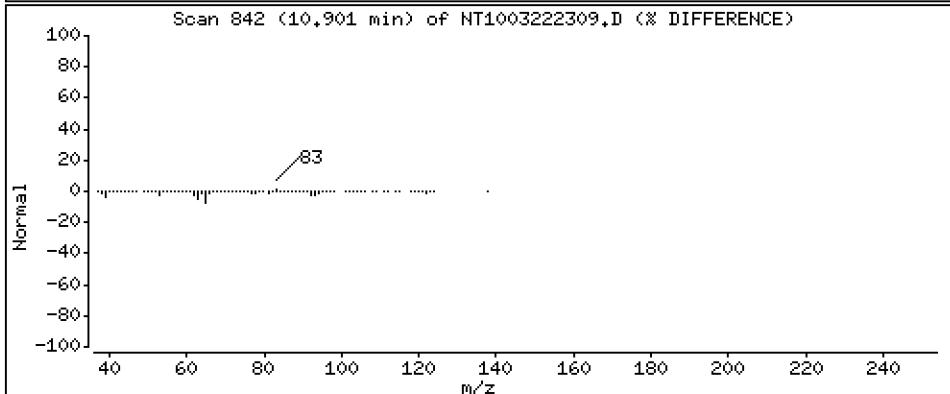
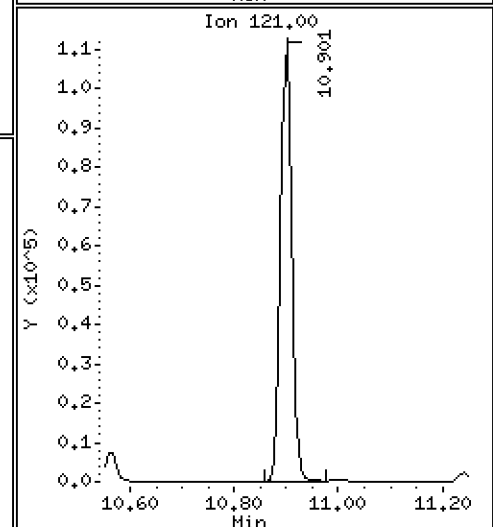
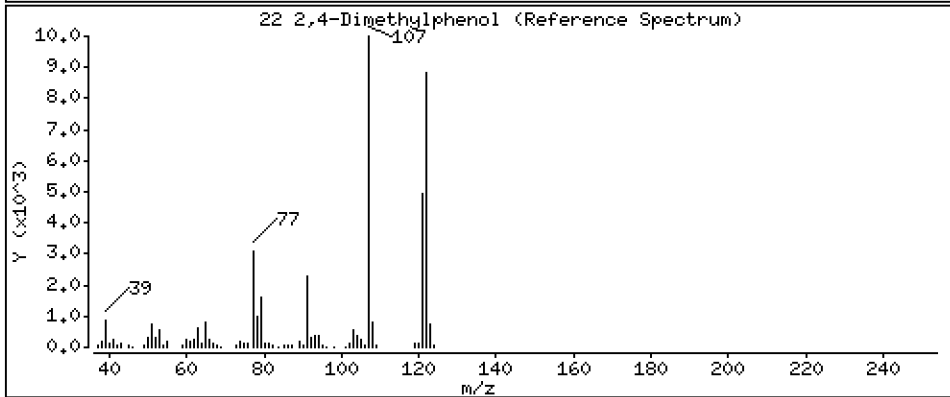
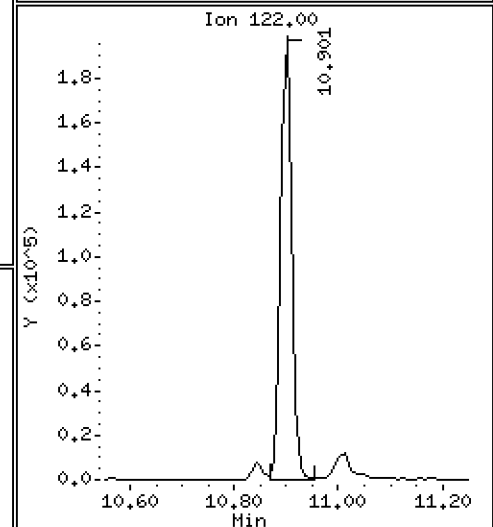
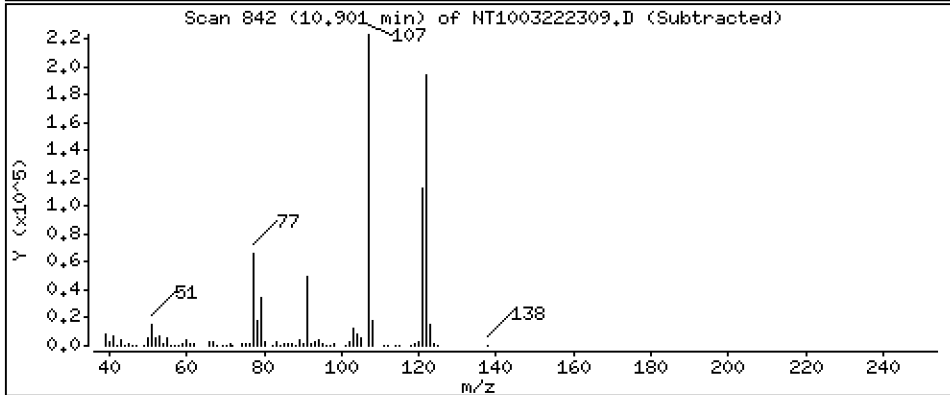
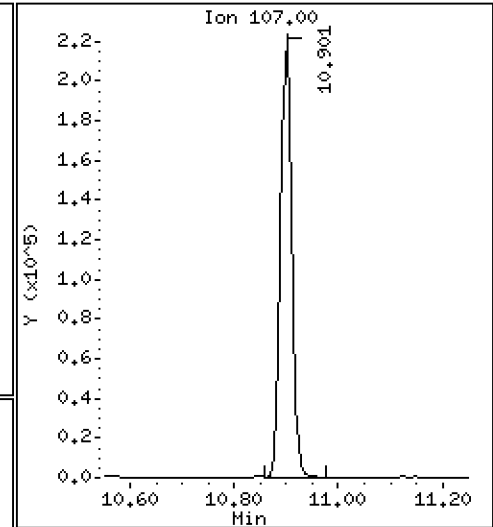
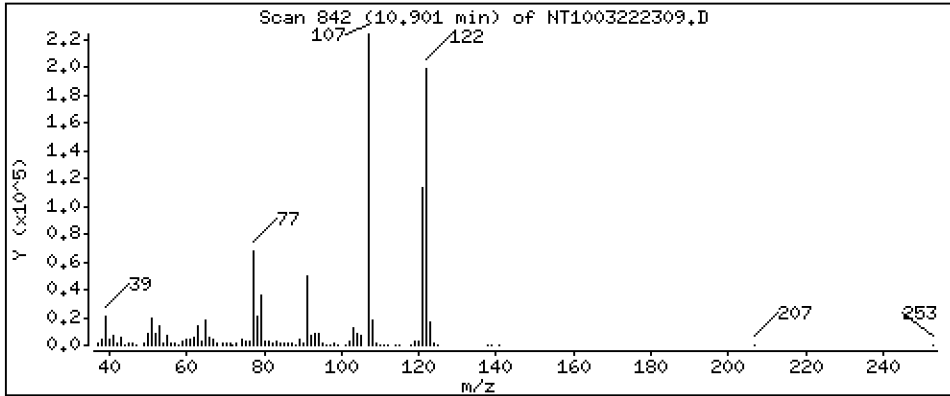
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 5,817 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

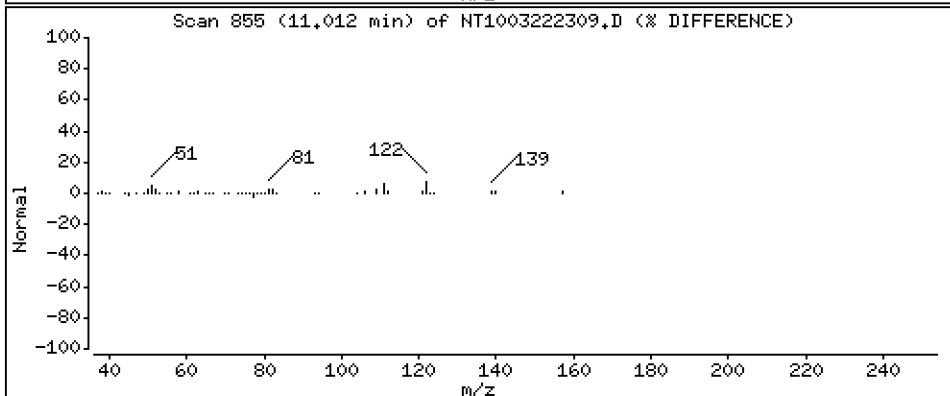
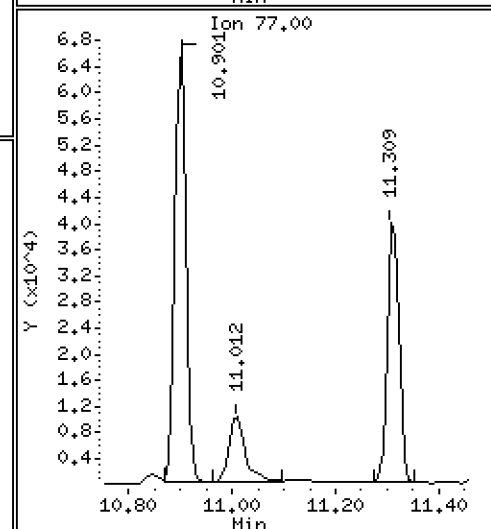
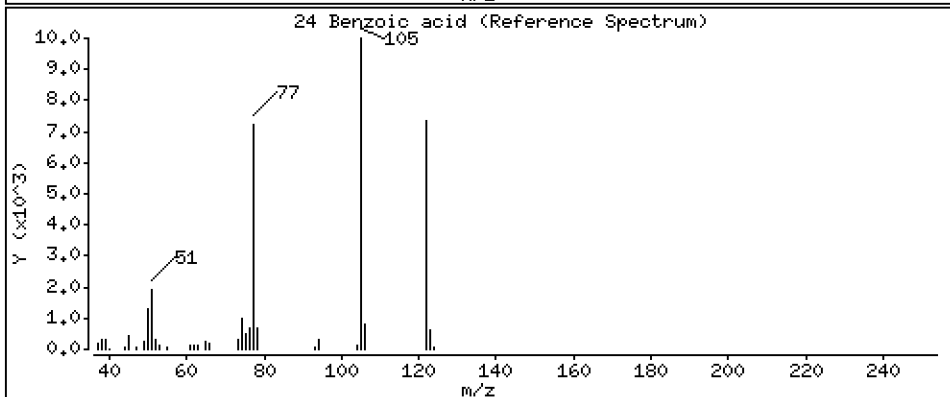
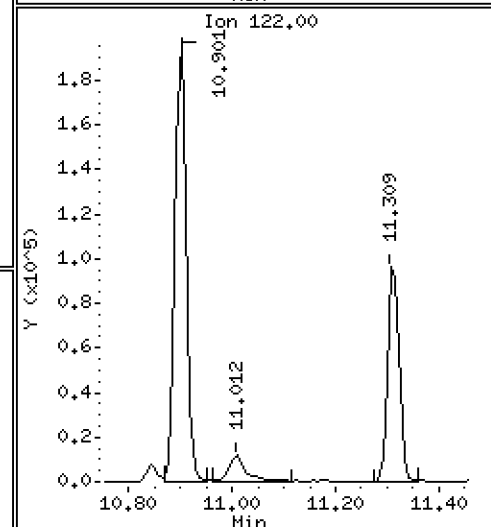
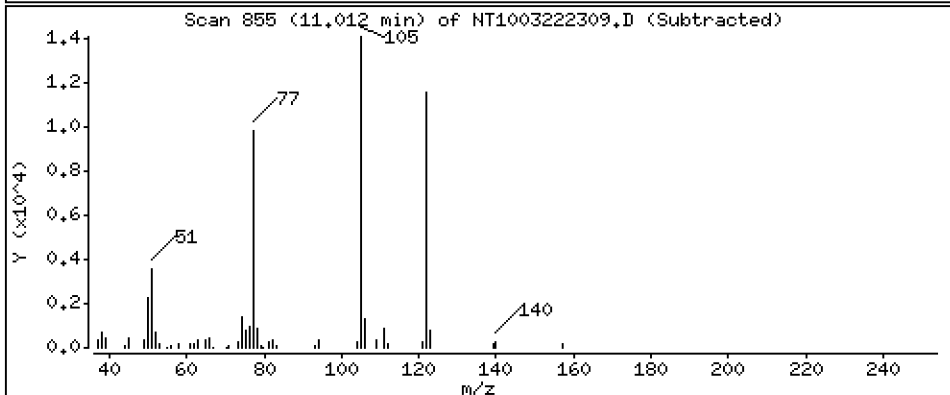
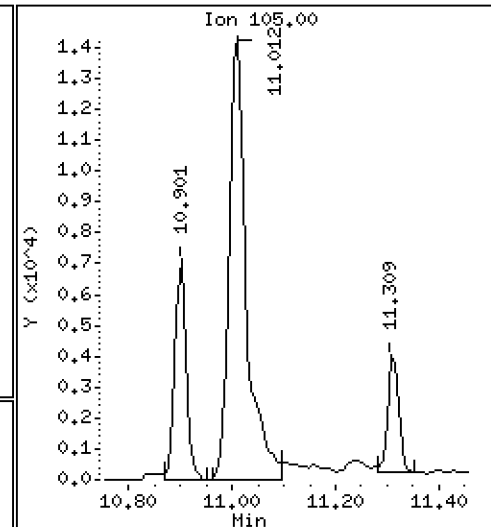
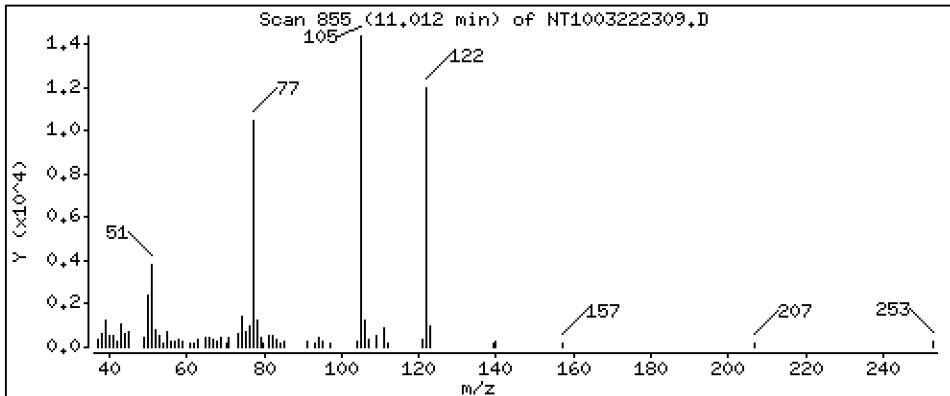
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

24 Benzoic acid

Concentration: 1.072 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

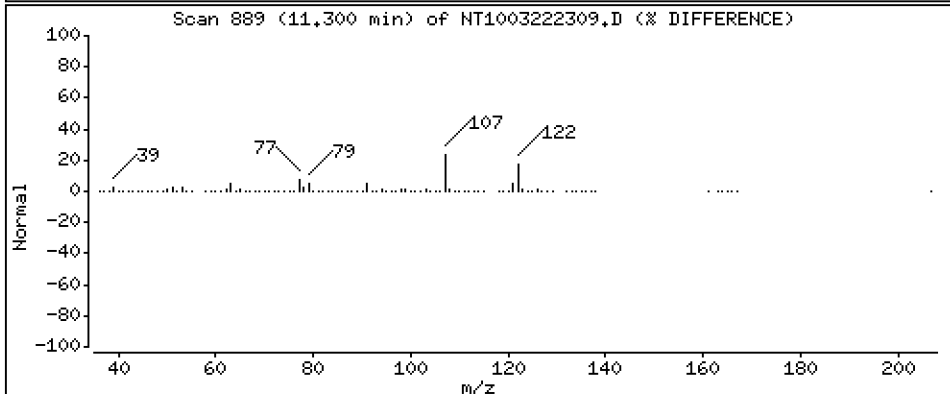
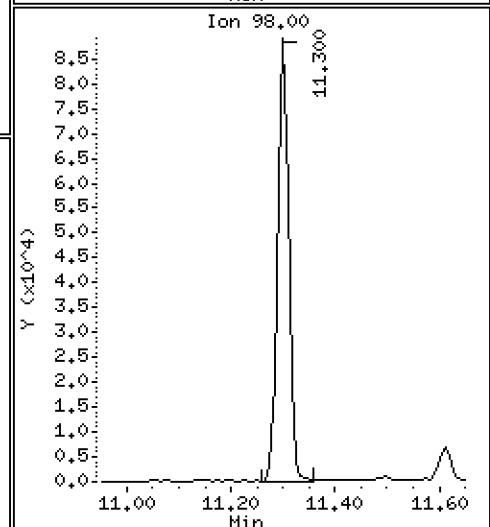
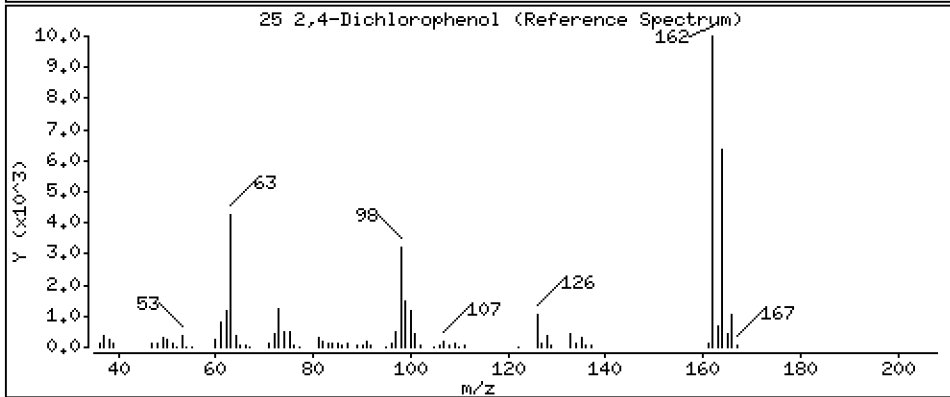
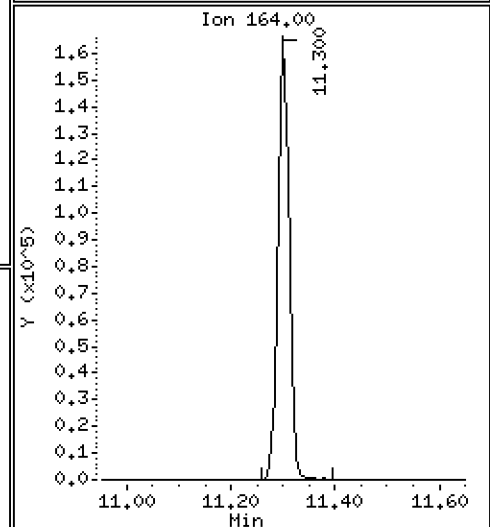
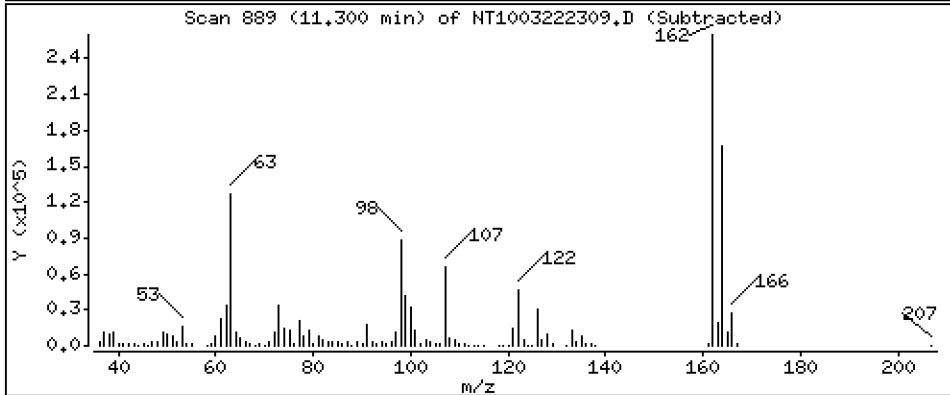
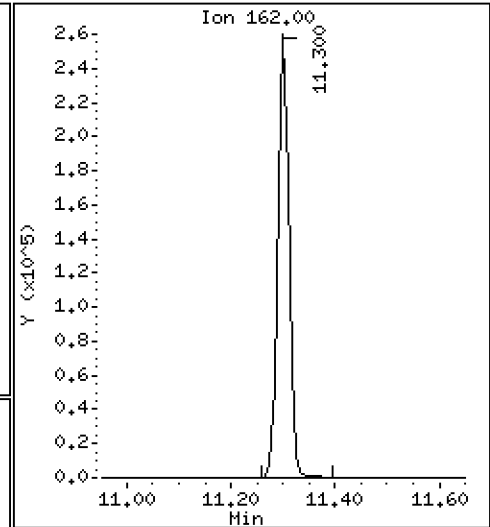
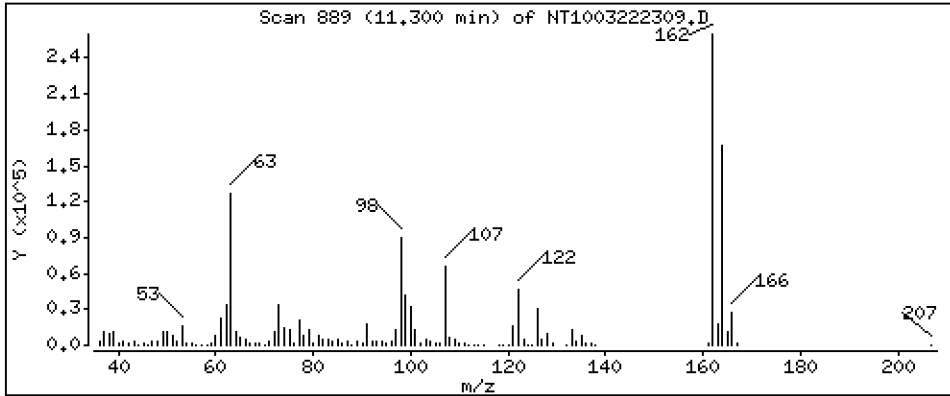
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 8,408 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

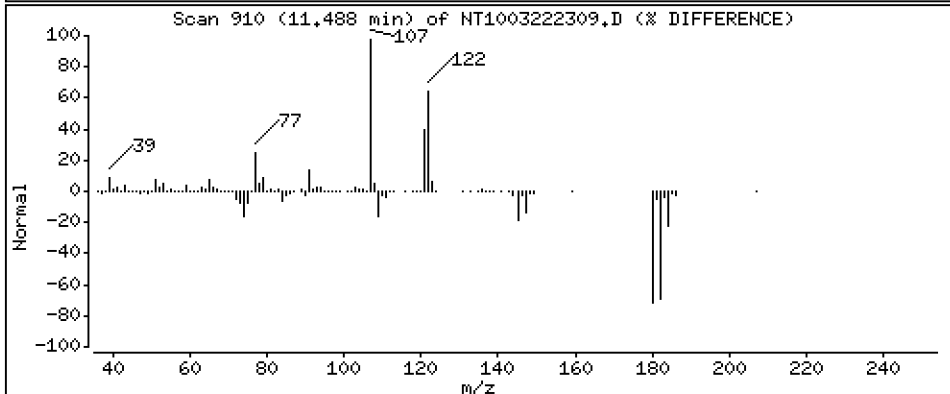
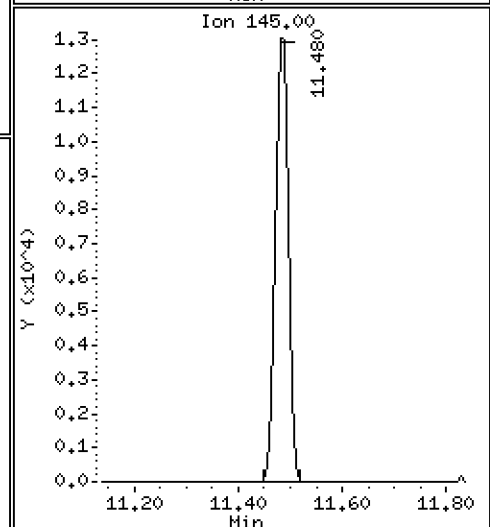
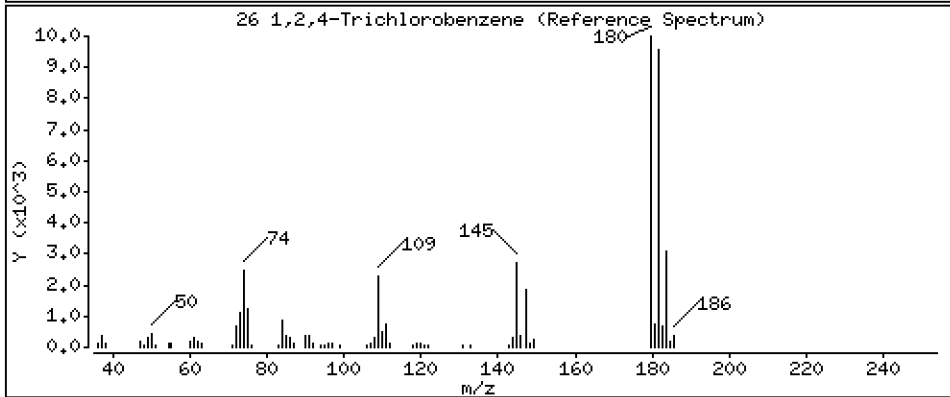
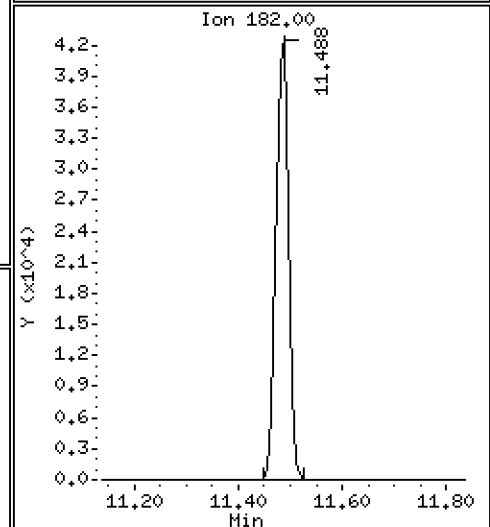
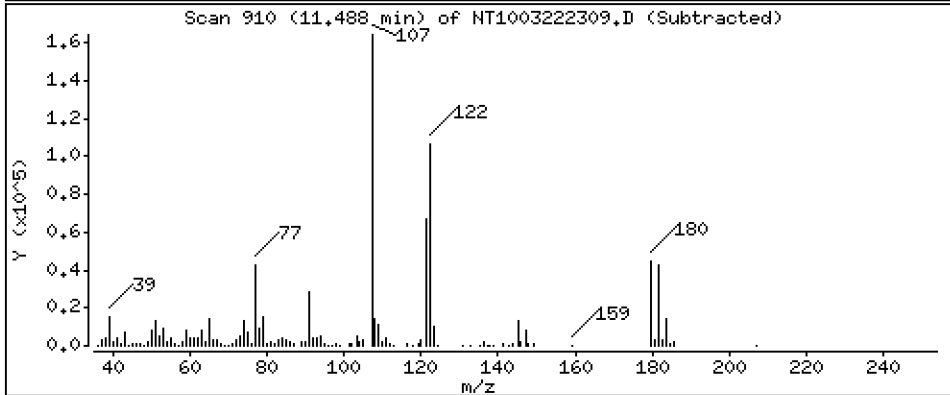
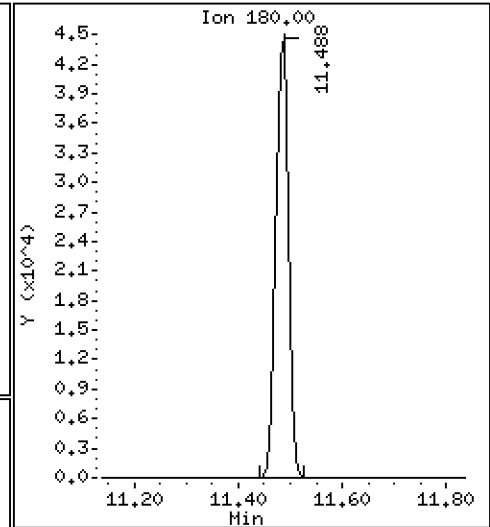
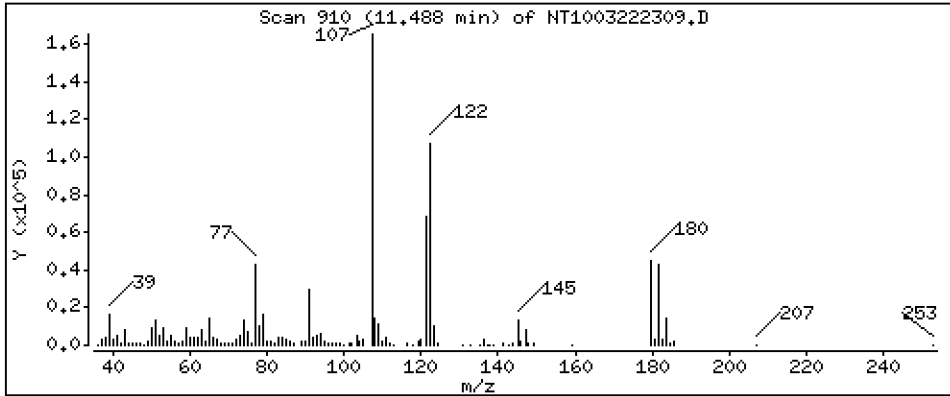
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 1,350 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

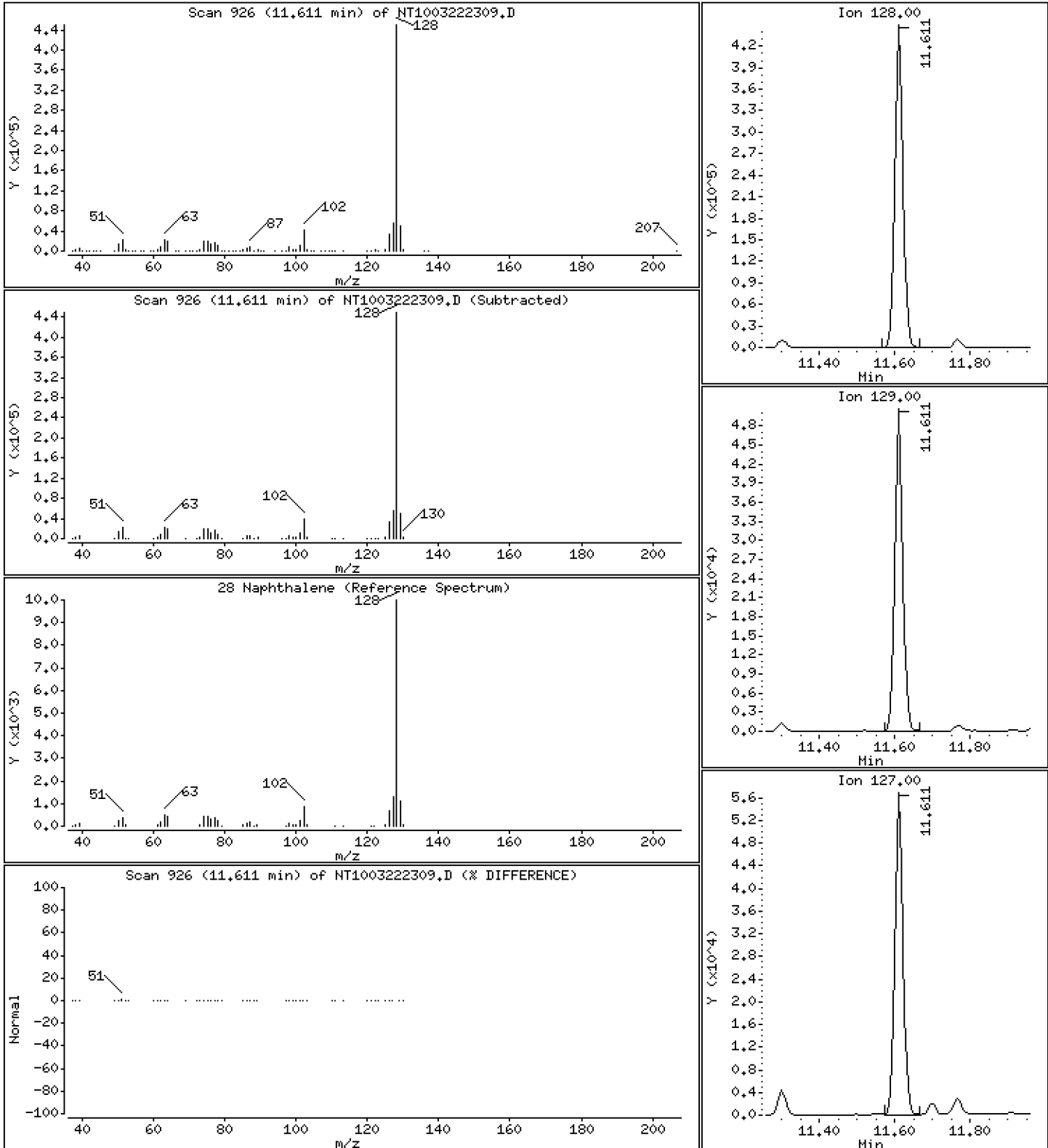
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 4,038 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

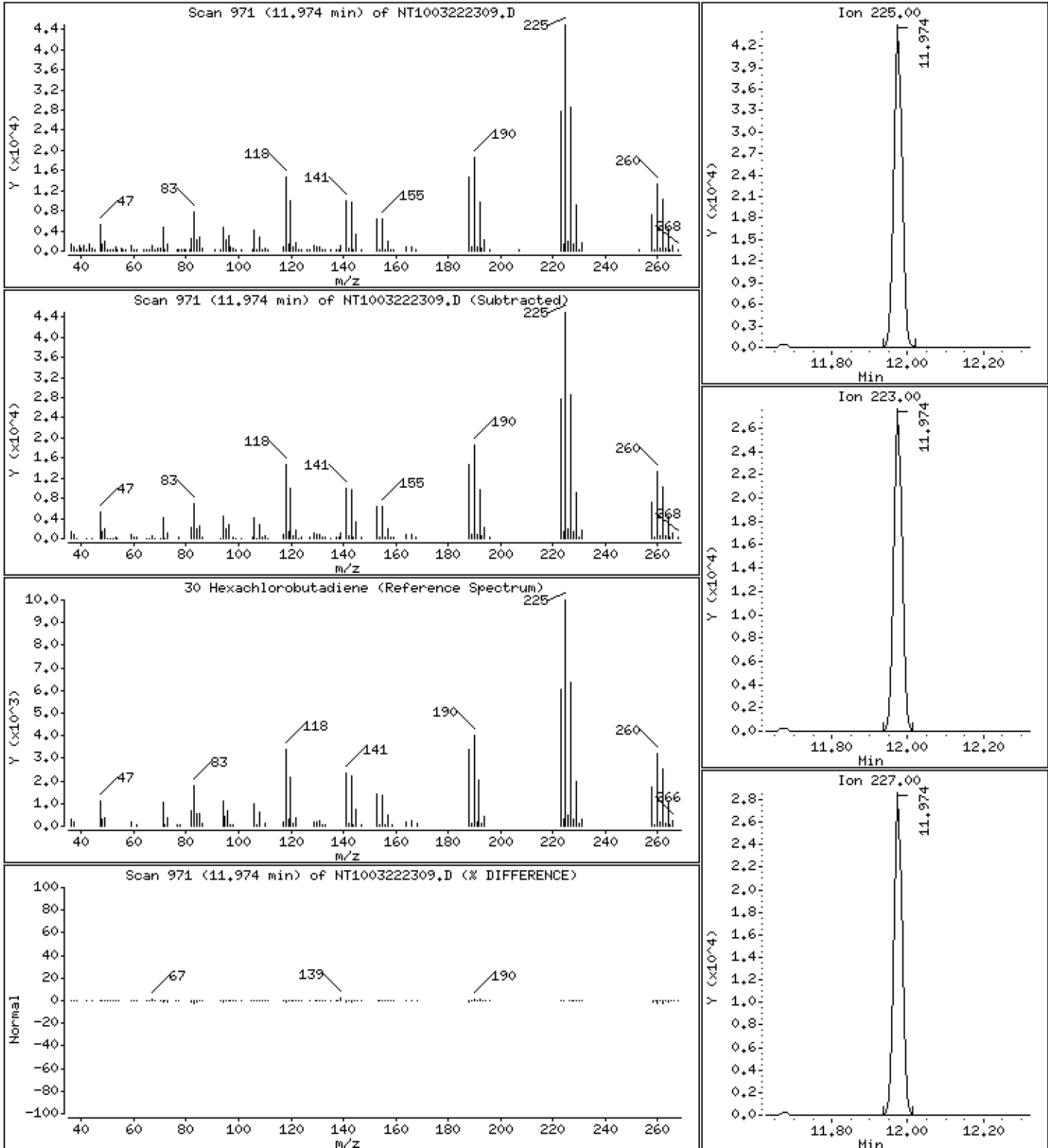
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 2,010 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

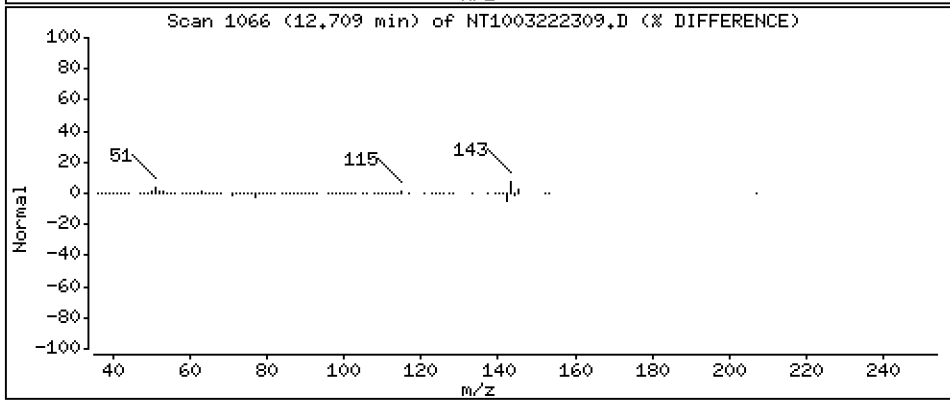
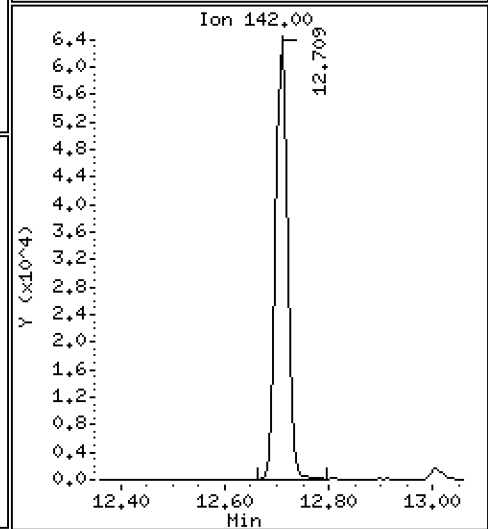
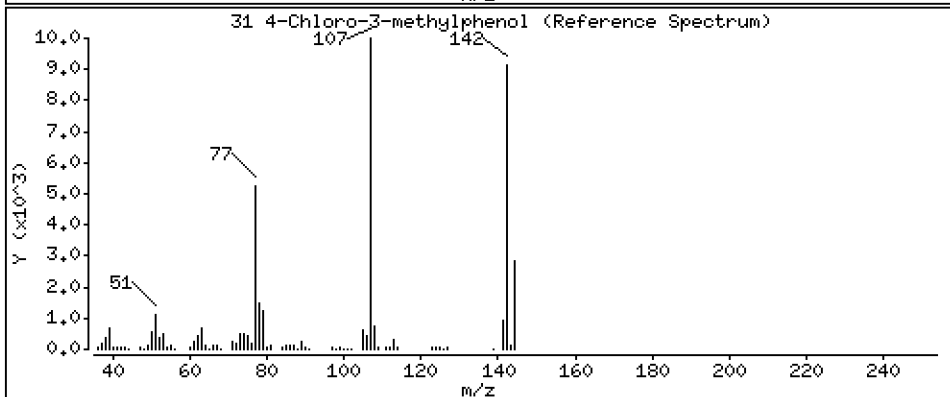
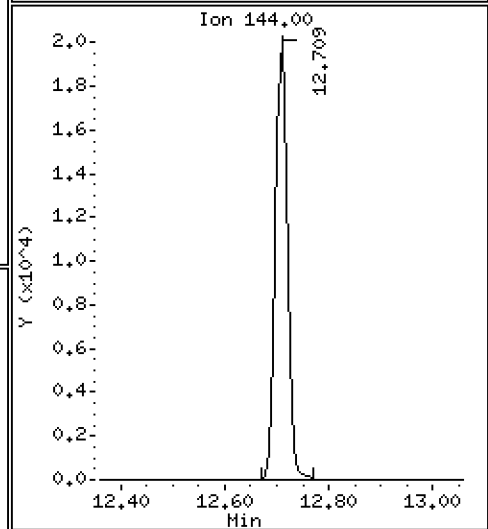
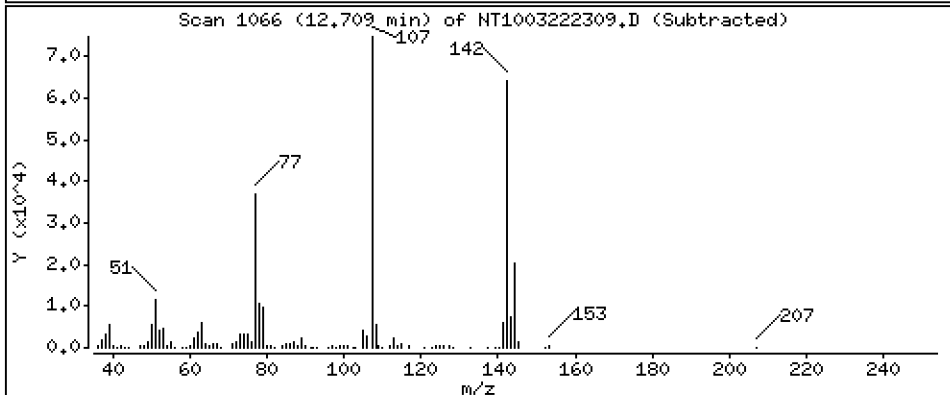
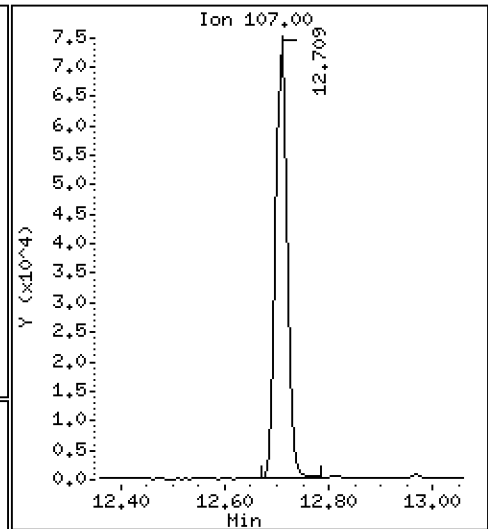
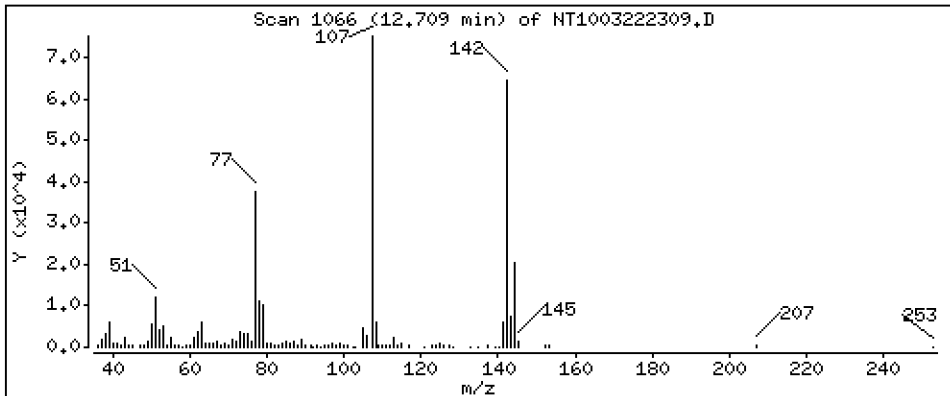
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

31 4-Chloro-3-methylphenol

Concentration: 2,189 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

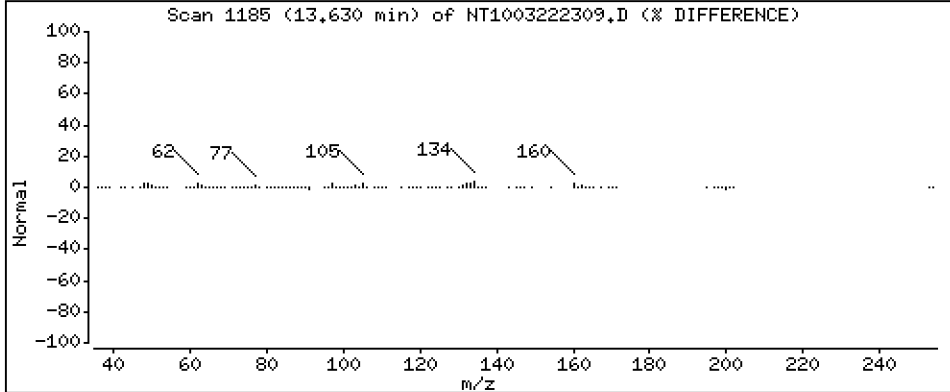
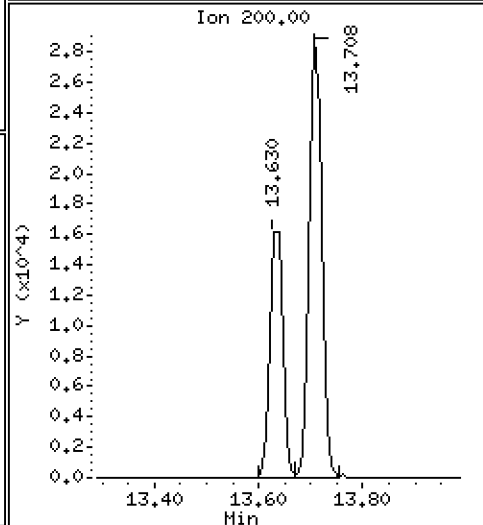
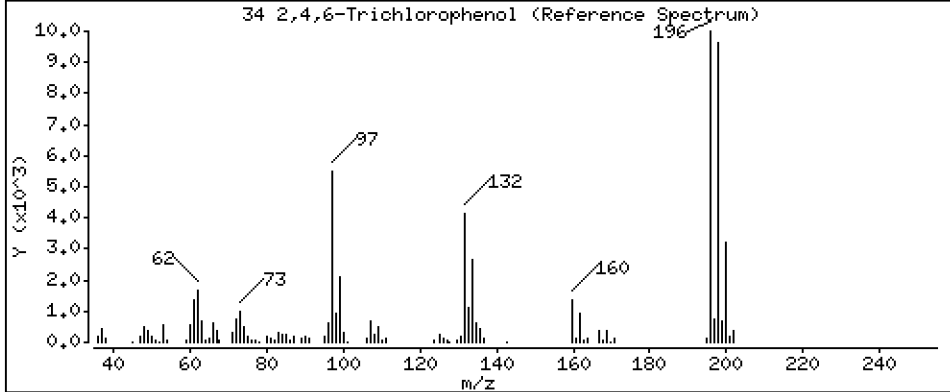
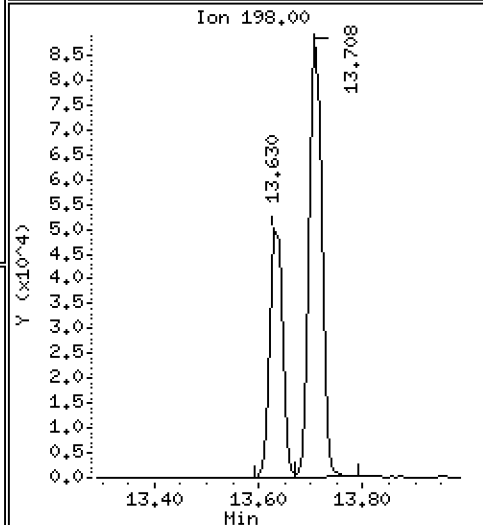
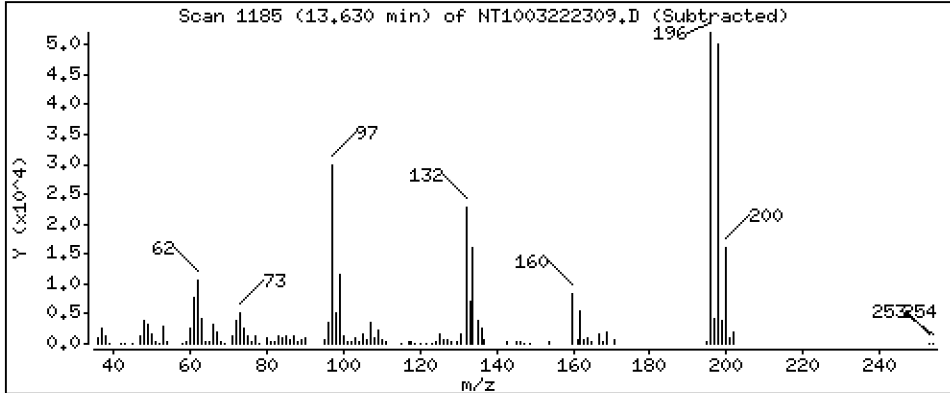
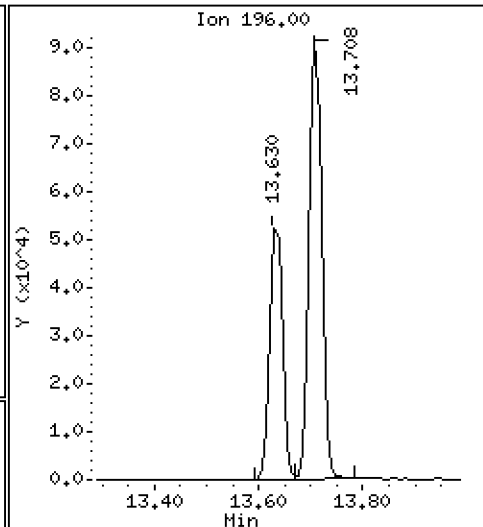
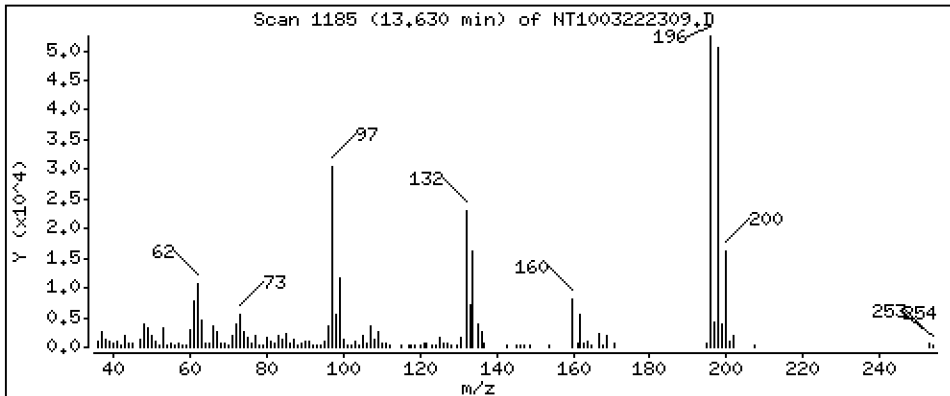
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

34 2,4,6-Trichlorophenol

Concentration: 2,487 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

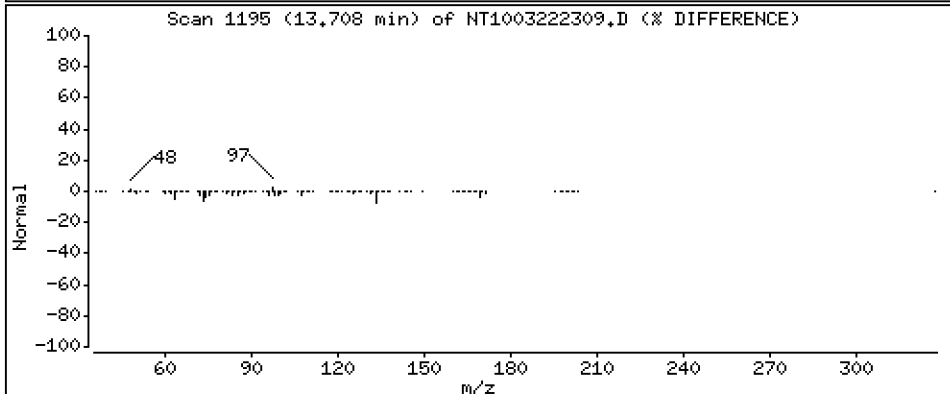
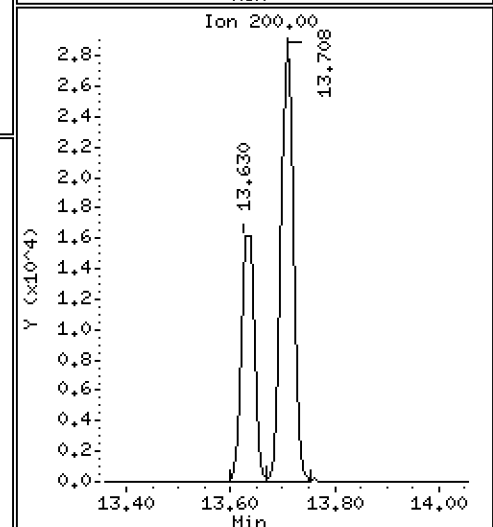
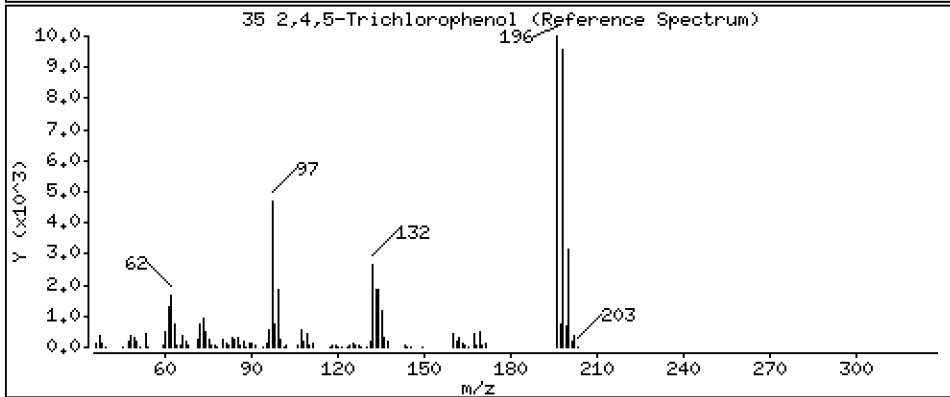
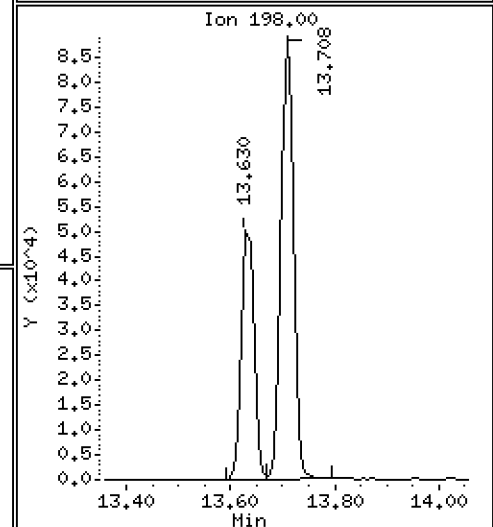
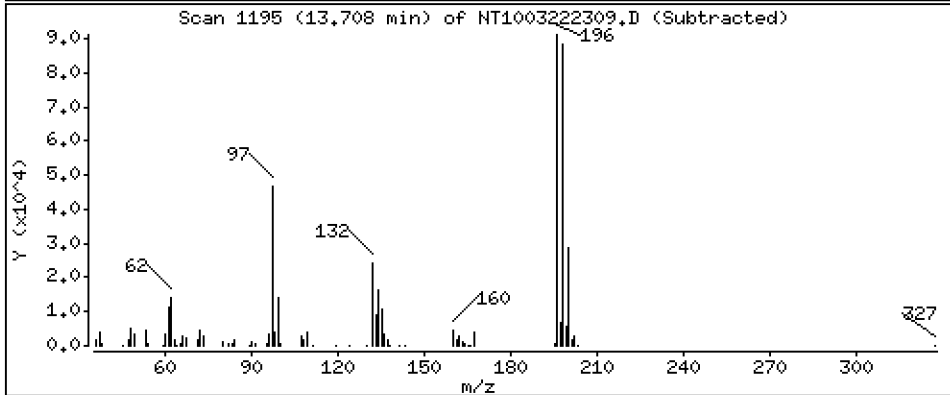
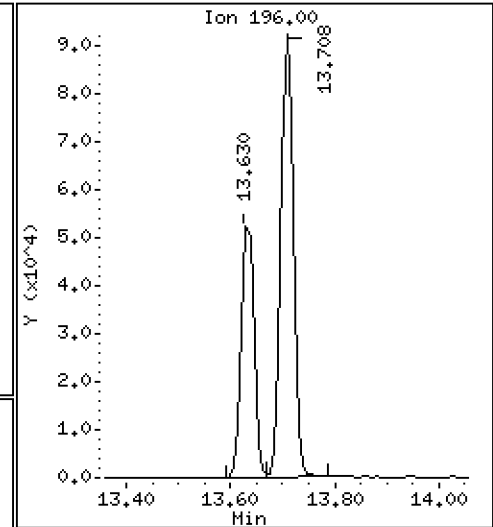
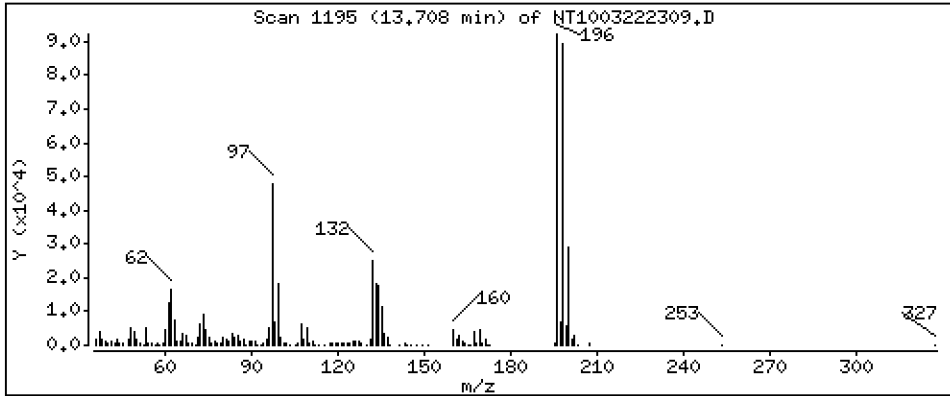
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

35 2,4,5-Trichlorophenol

Concentration: 3,824 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

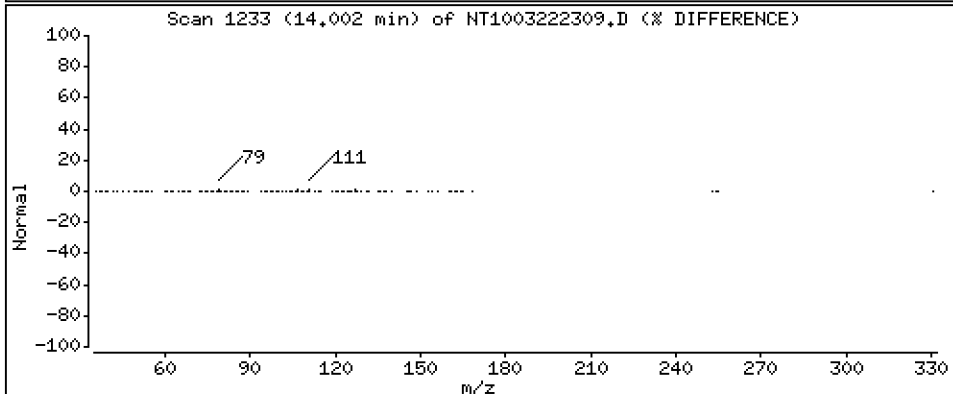
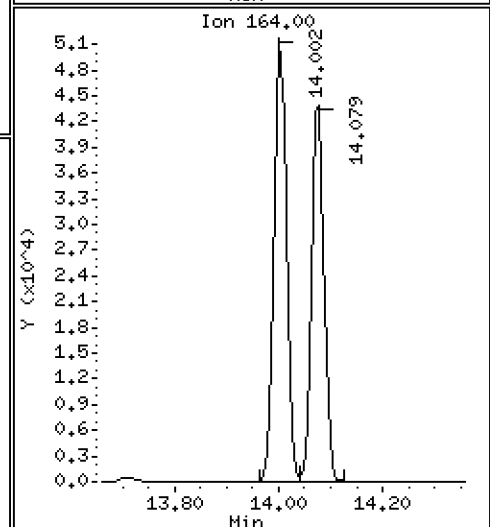
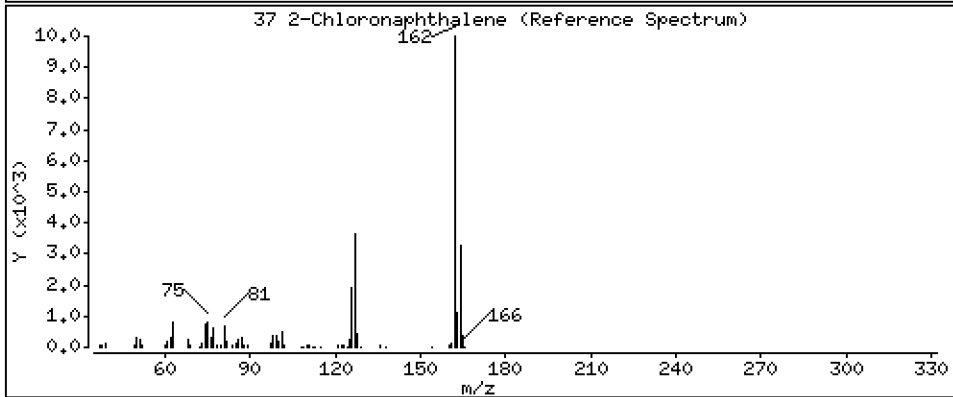
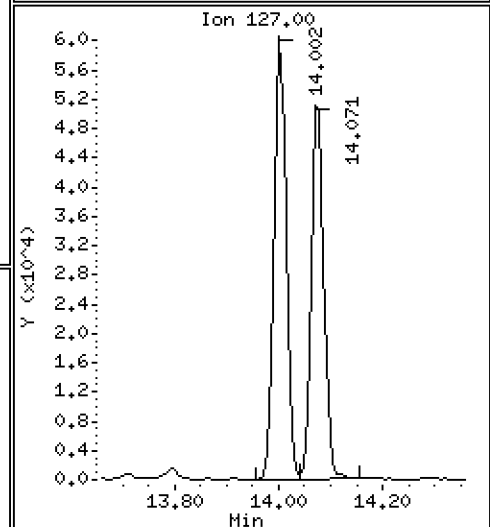
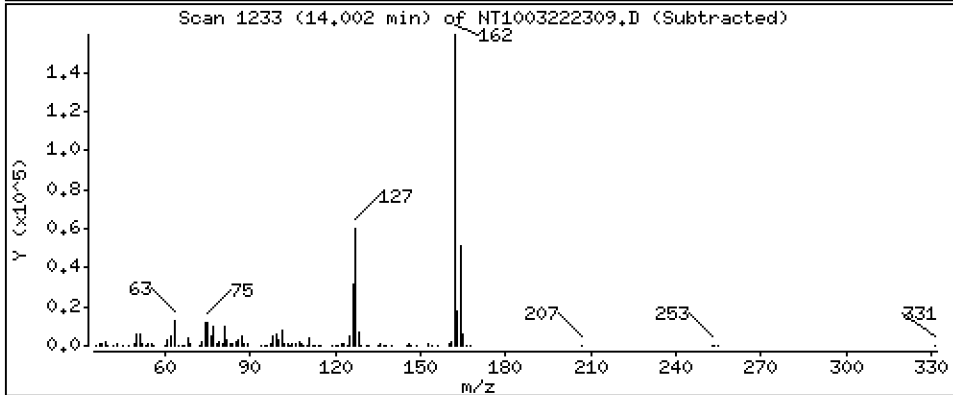
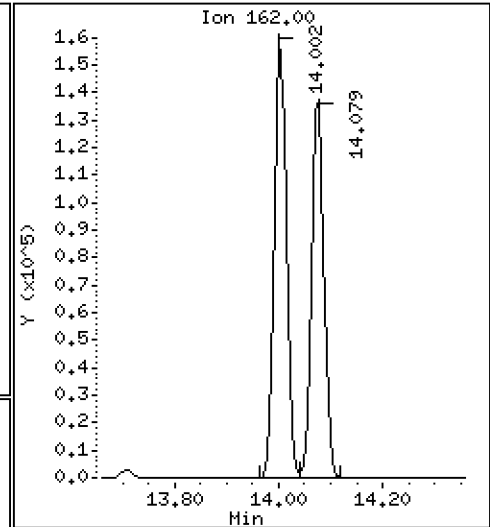
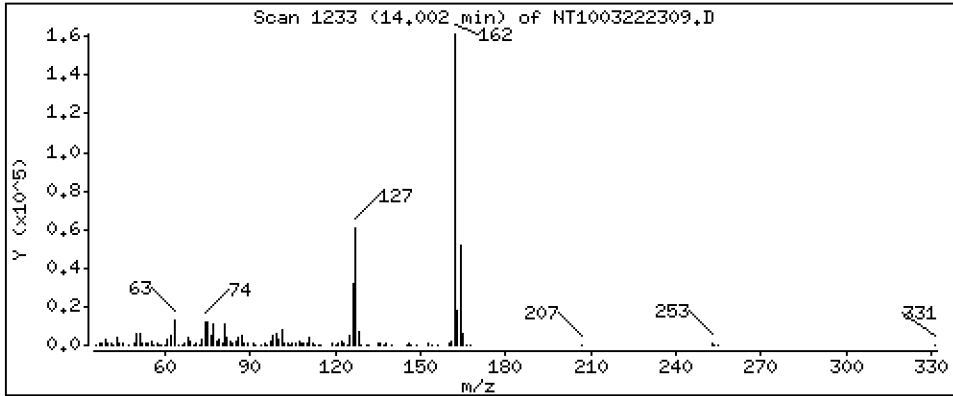
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

37 2-Chloronaphthalene

Concentration: 2,159 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

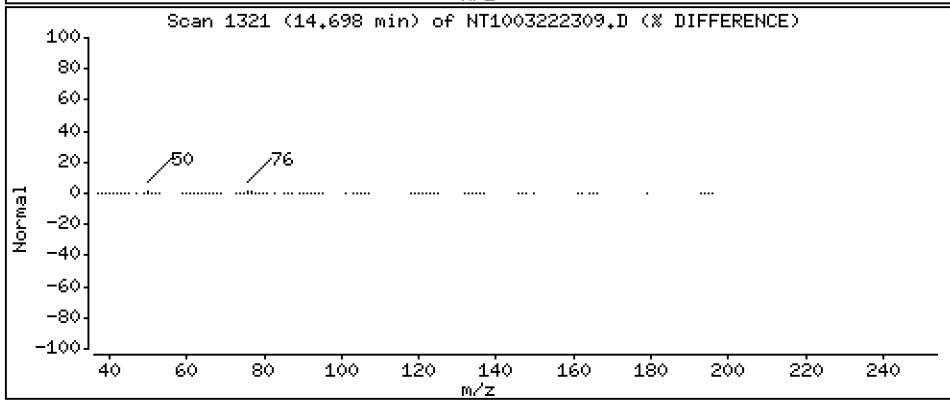
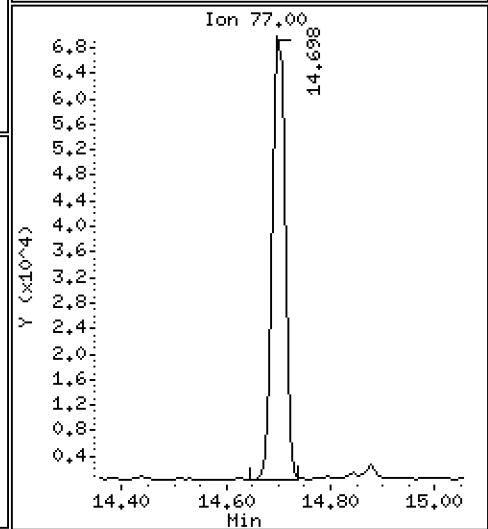
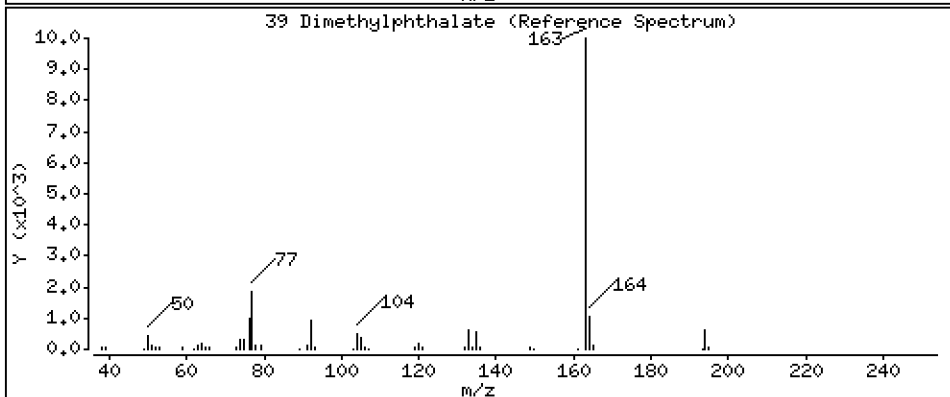
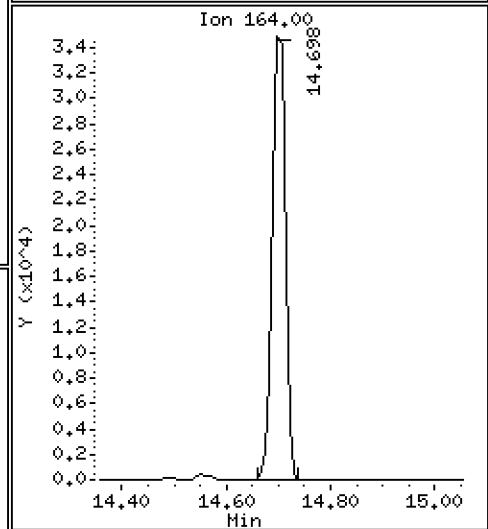
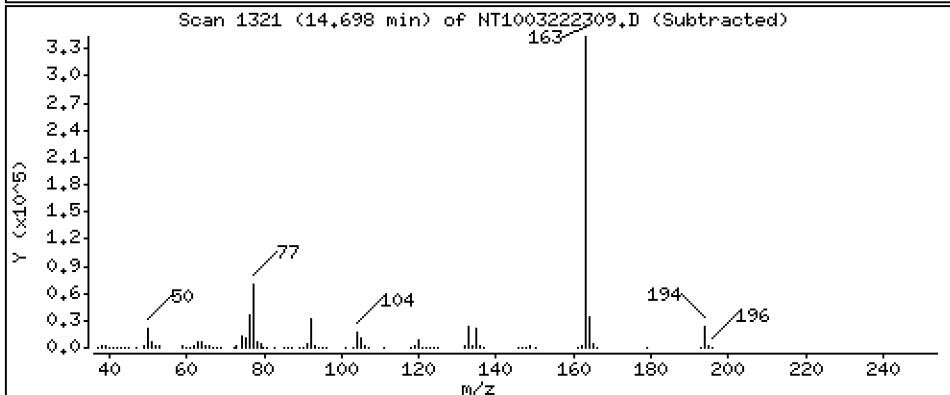
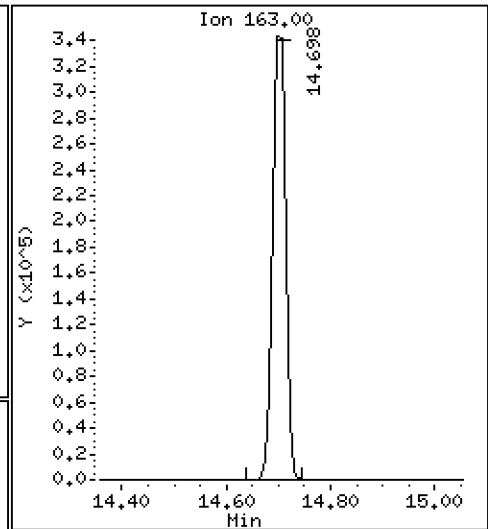
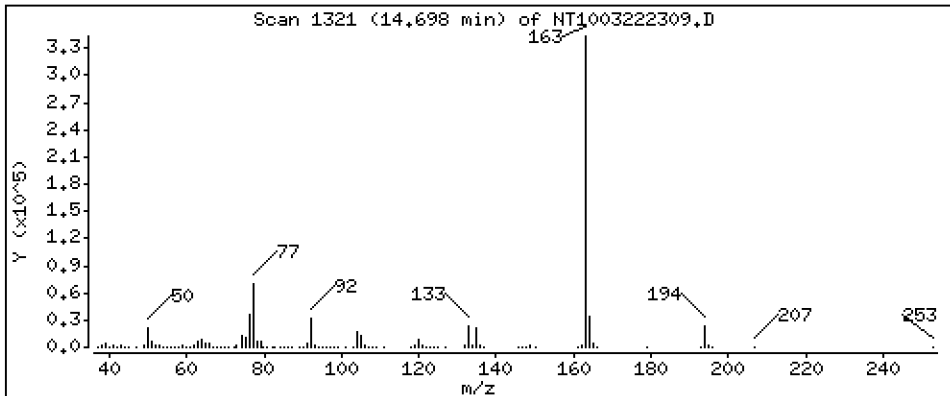
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 4,978 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

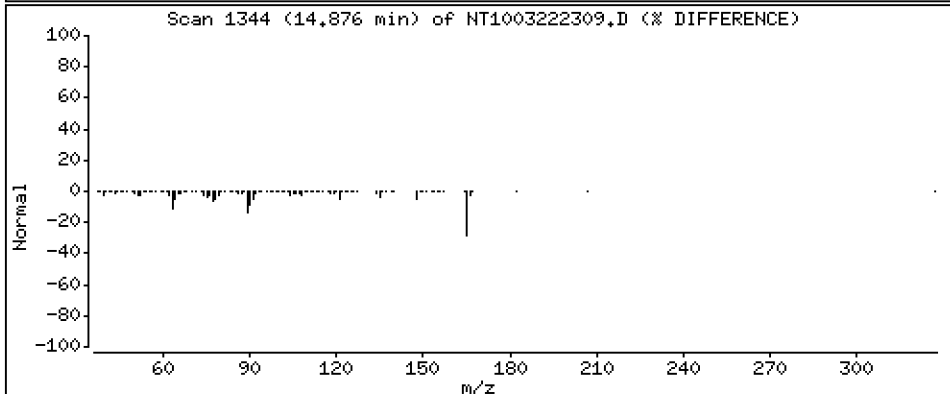
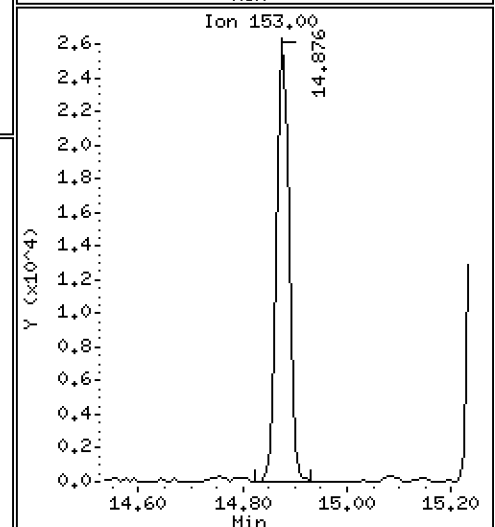
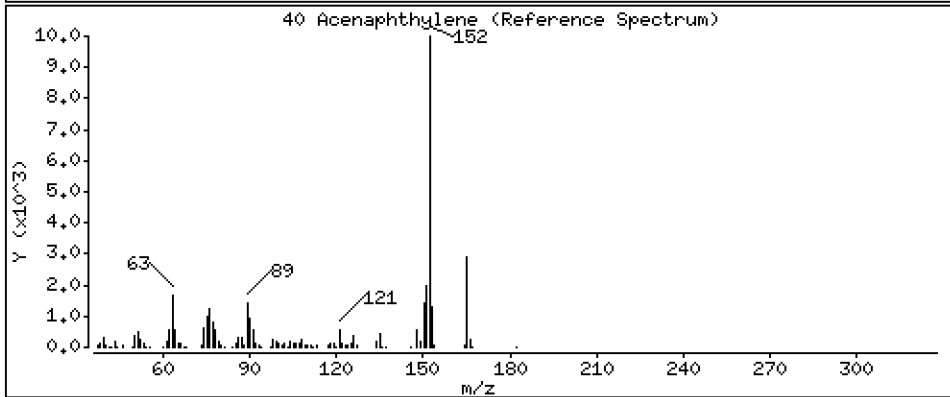
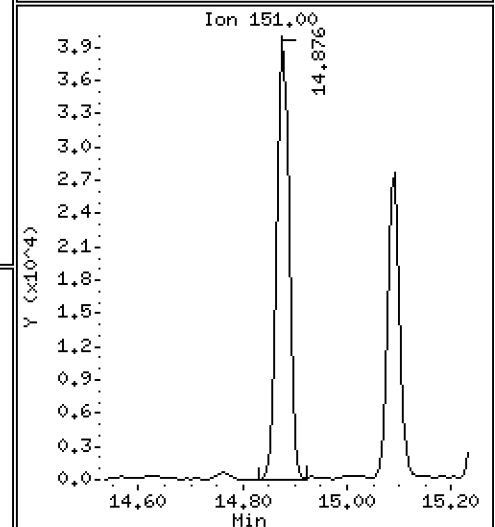
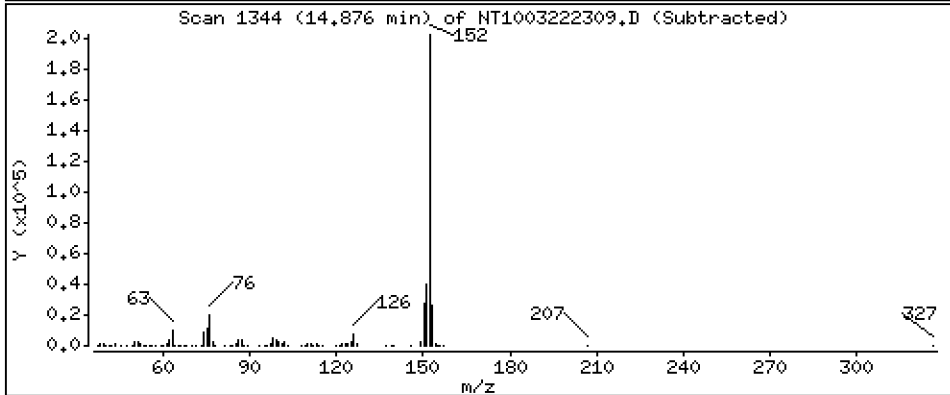
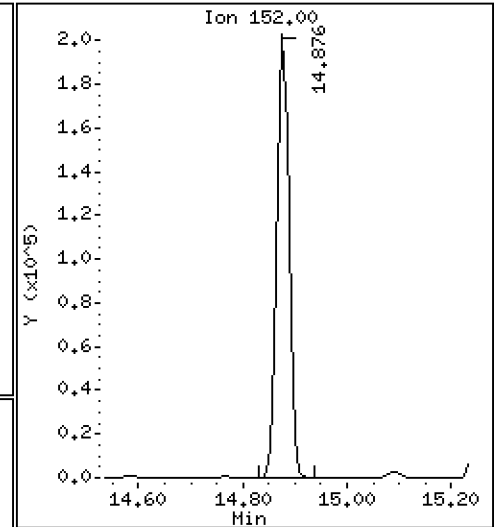
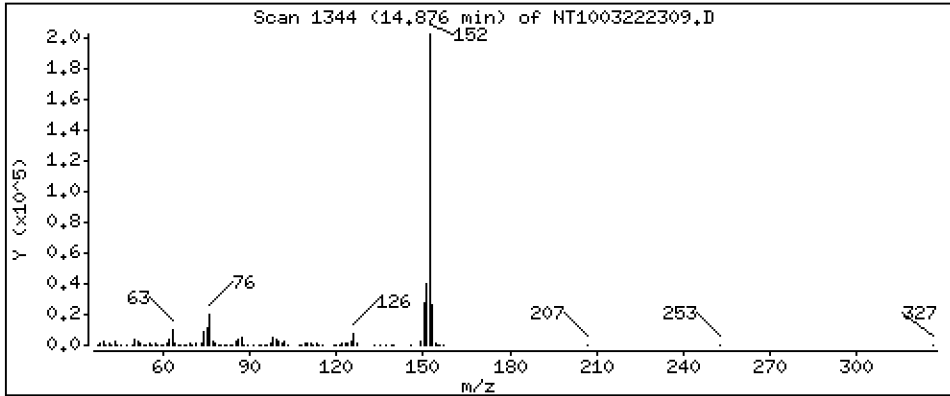
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 1,789 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

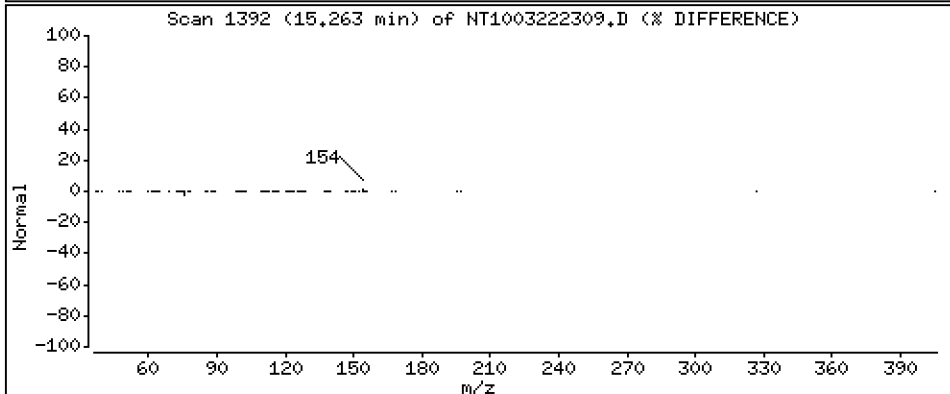
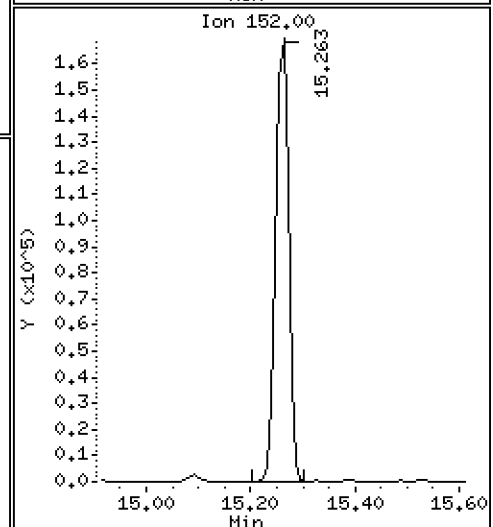
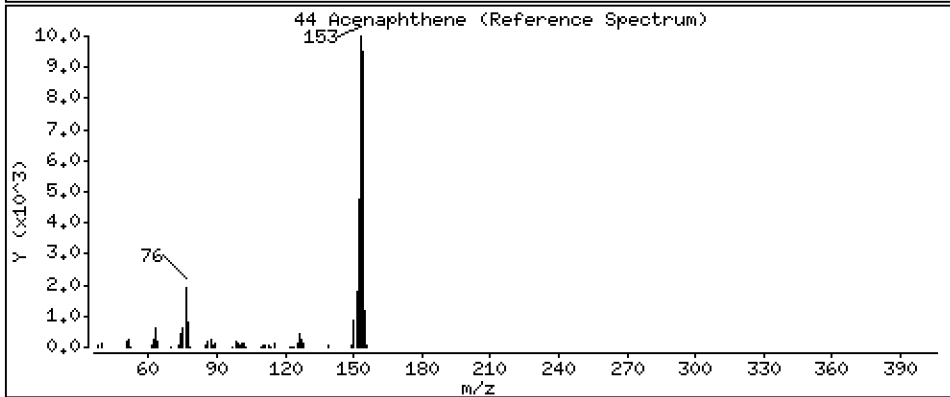
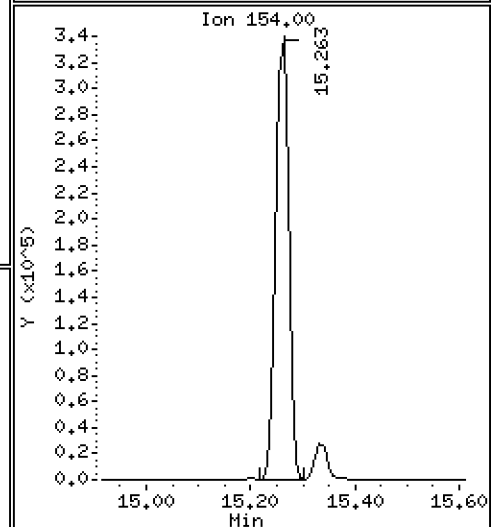
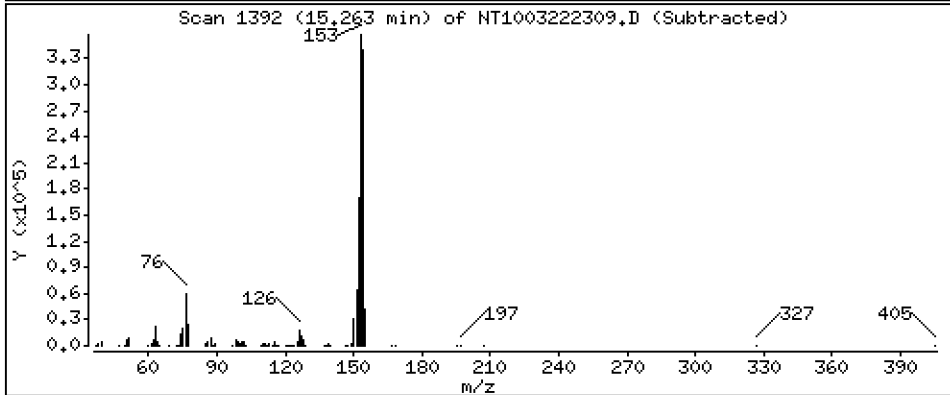
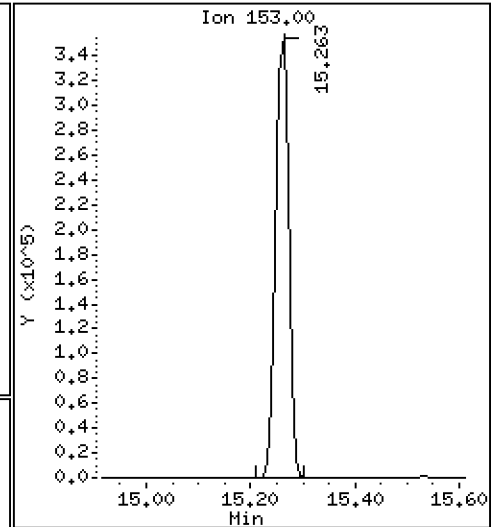
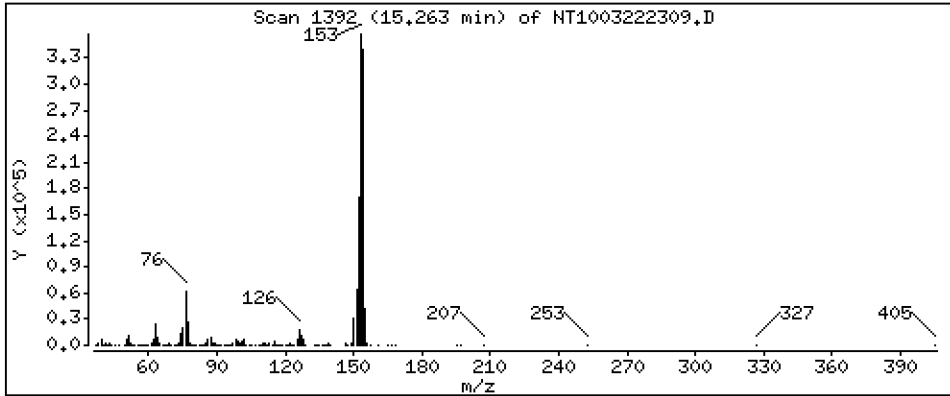
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 5,530 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

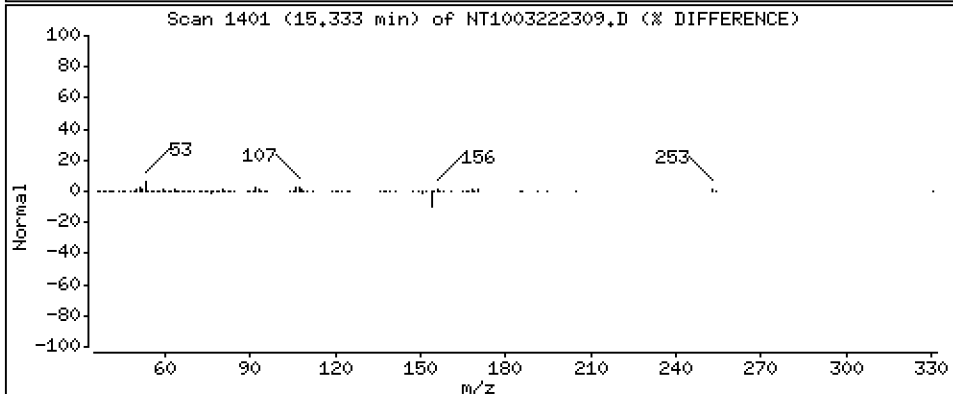
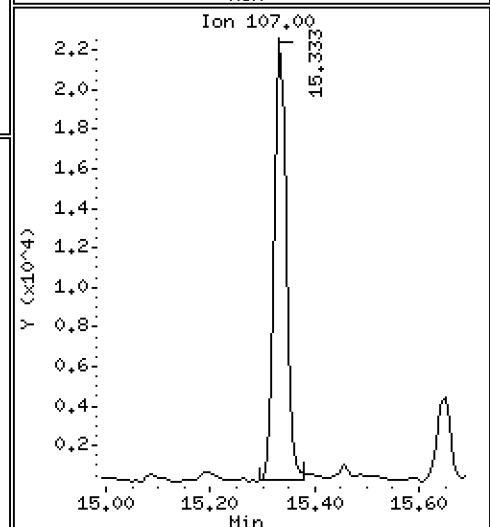
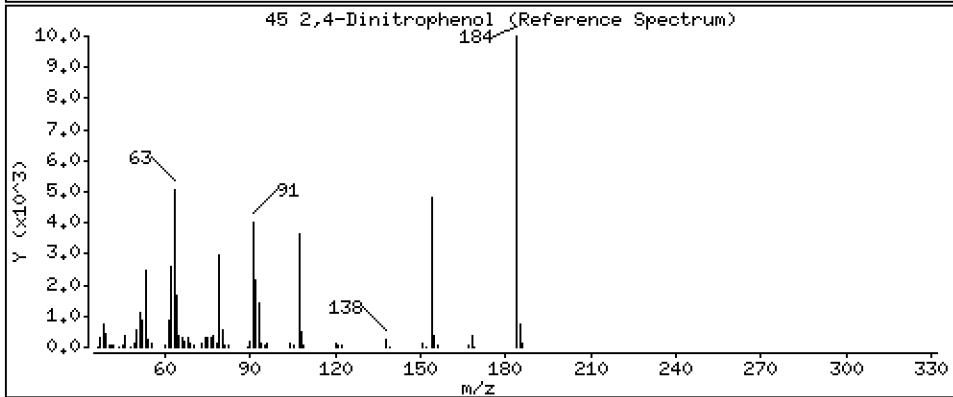
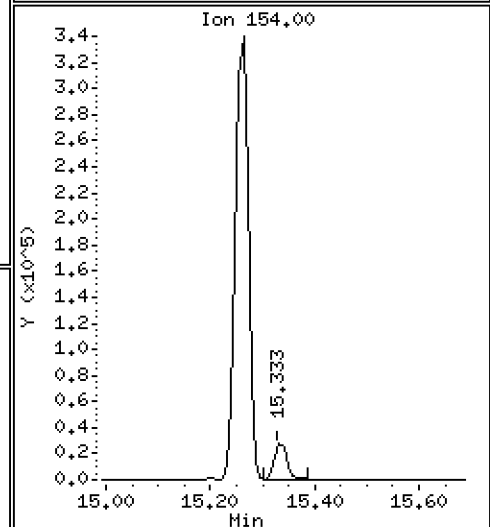
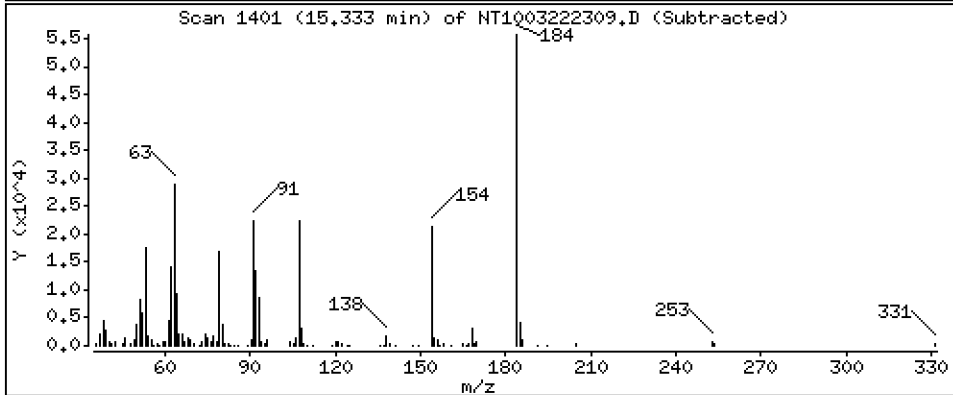
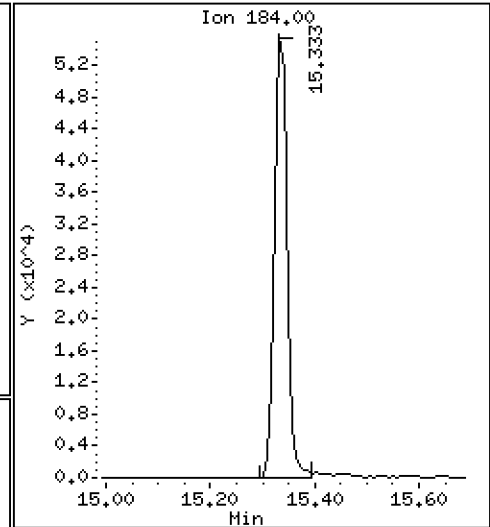
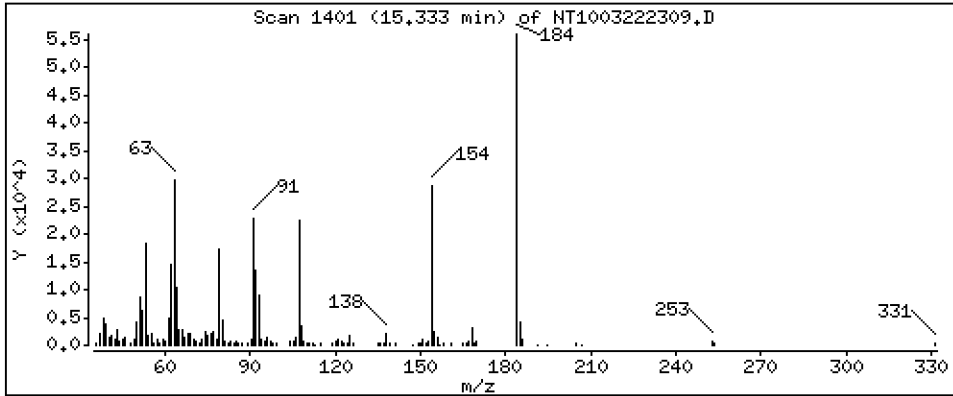
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

45 2,4-Dinitrophenol

Concentration: 5,928 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

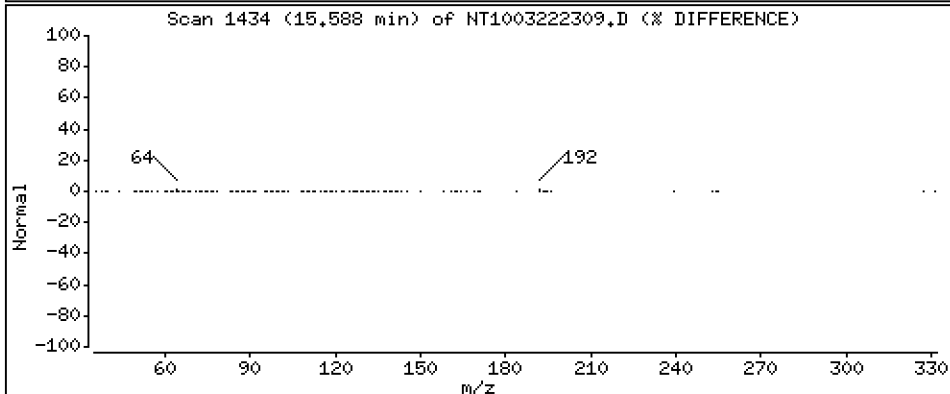
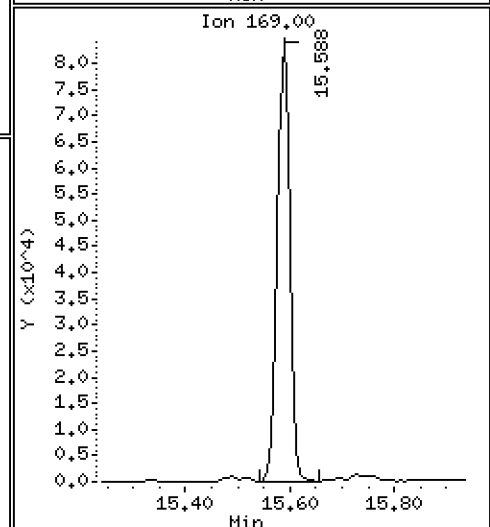
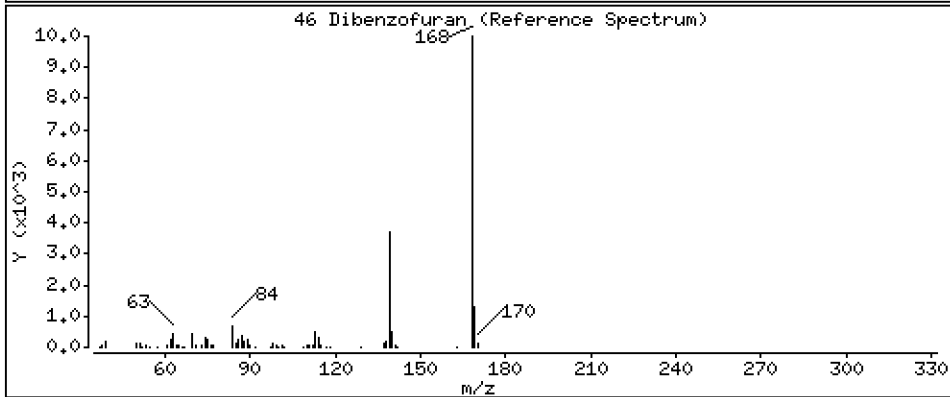
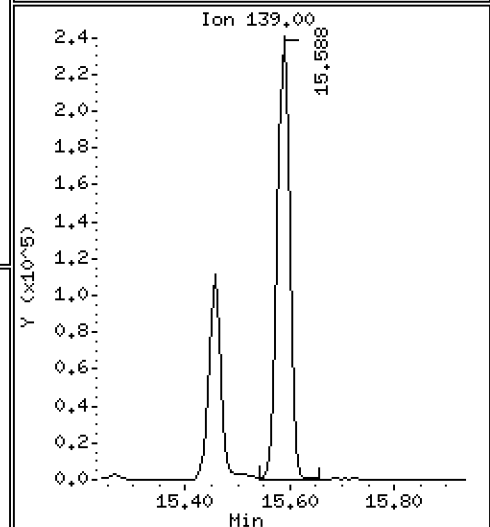
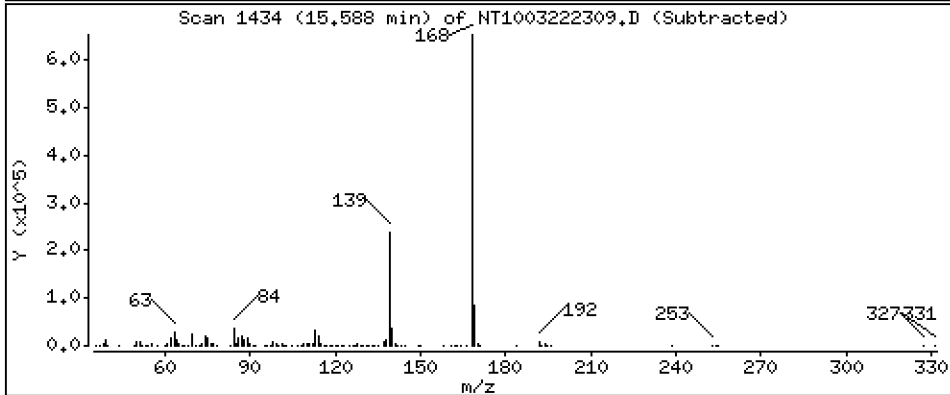
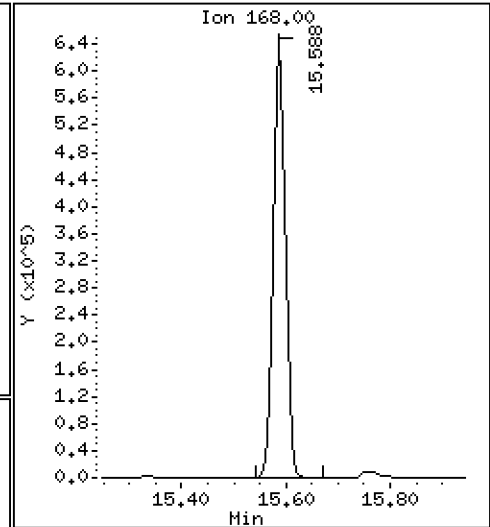
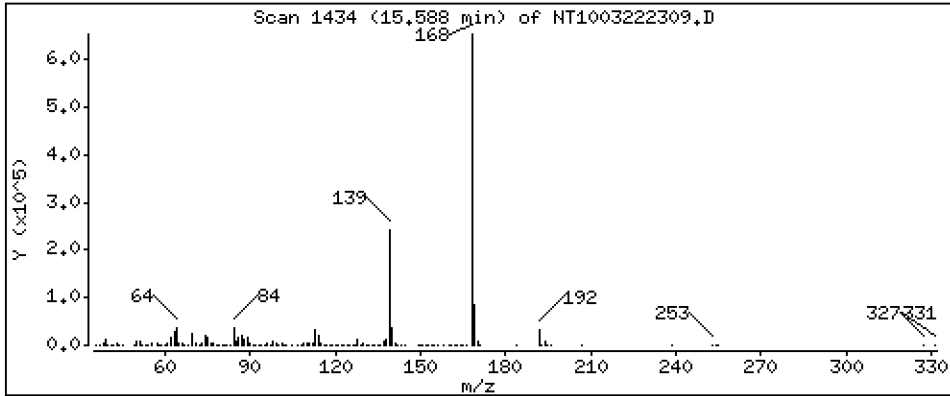
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 6,347 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

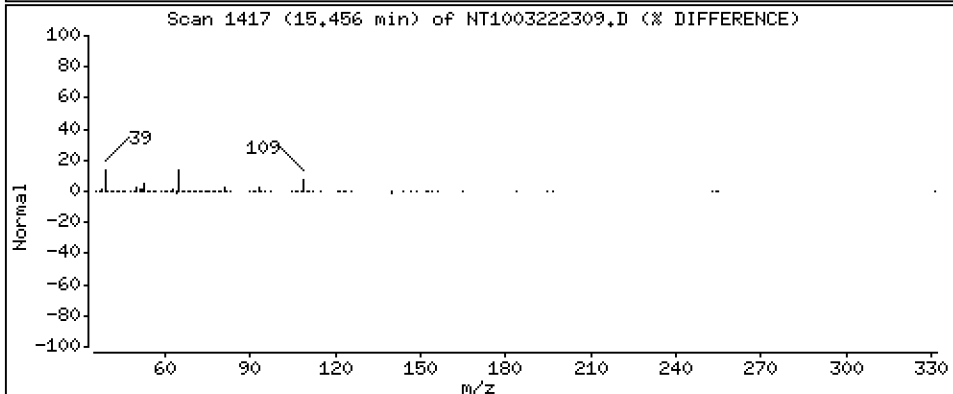
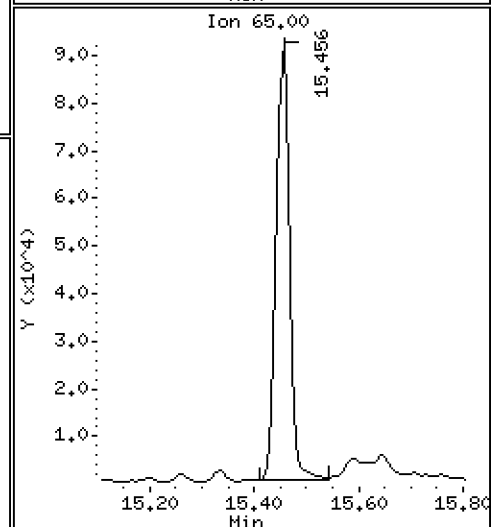
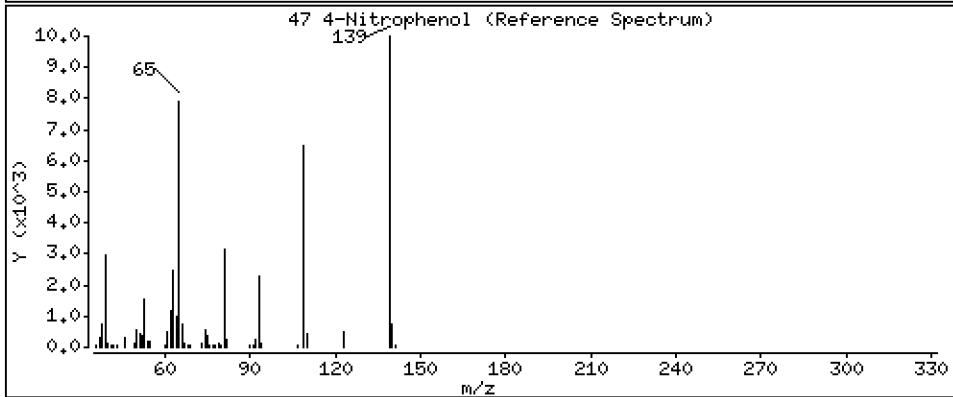
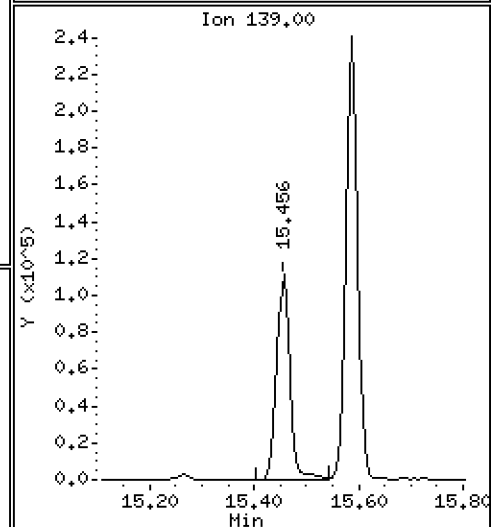
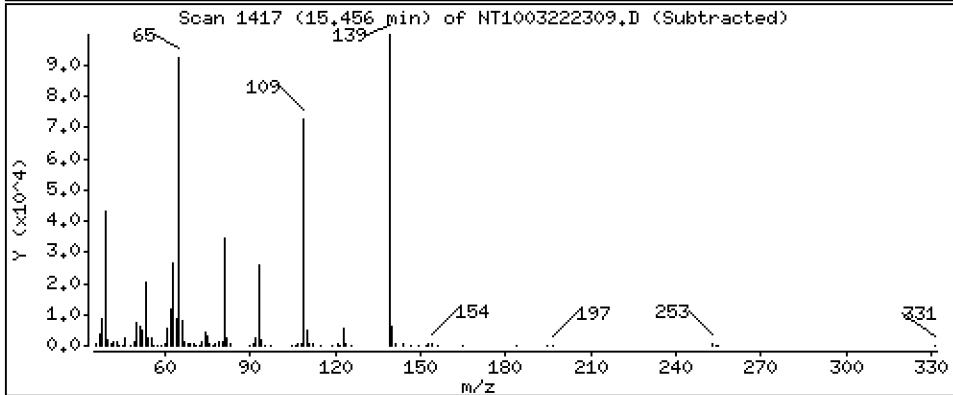
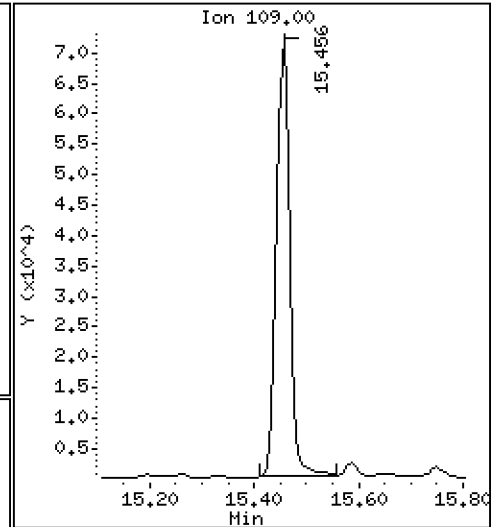
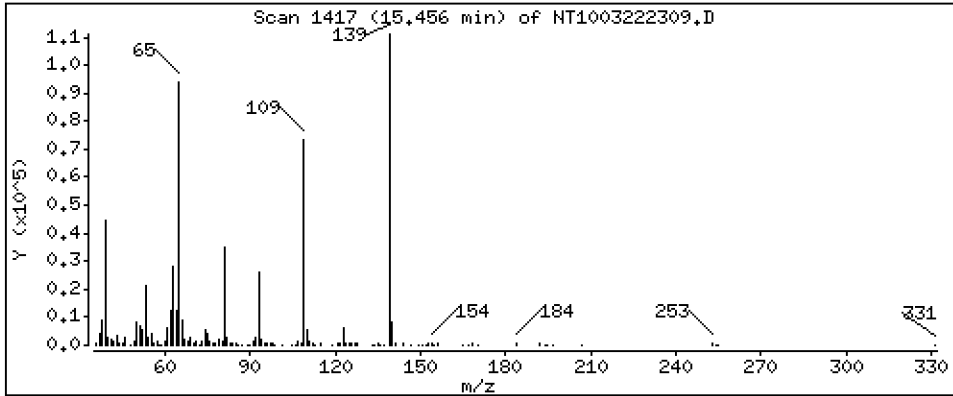
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

47 4-Nitrophenol

Concentration: 7,035 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

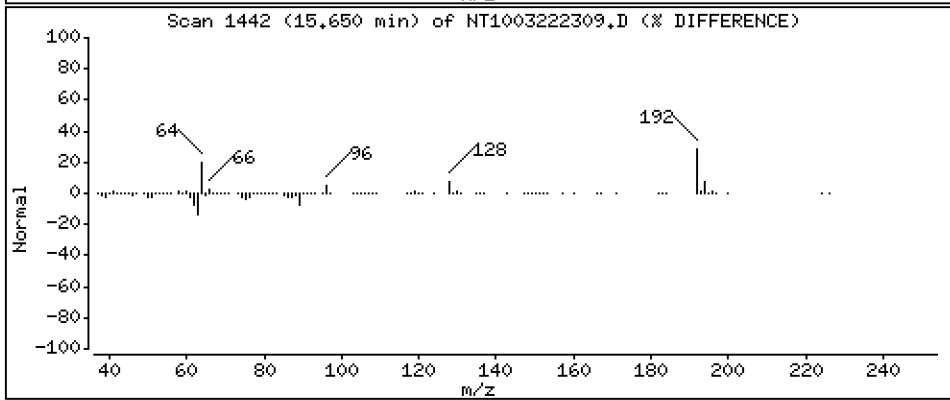
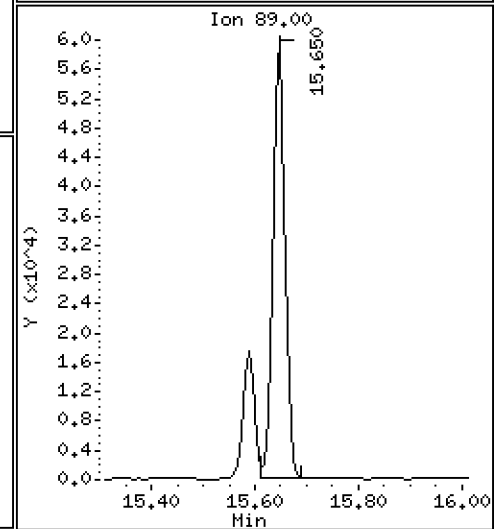
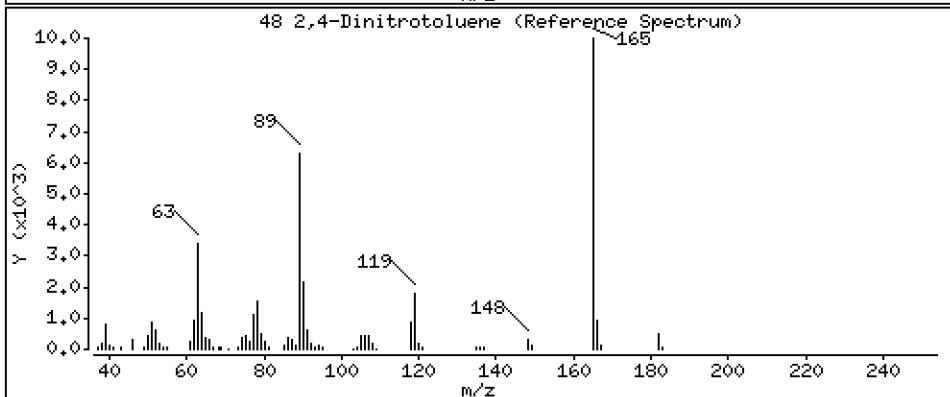
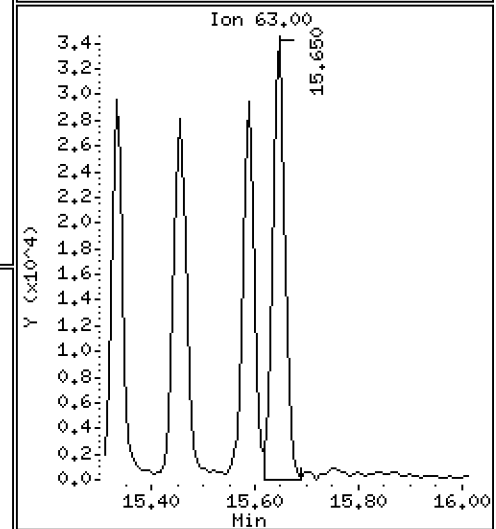
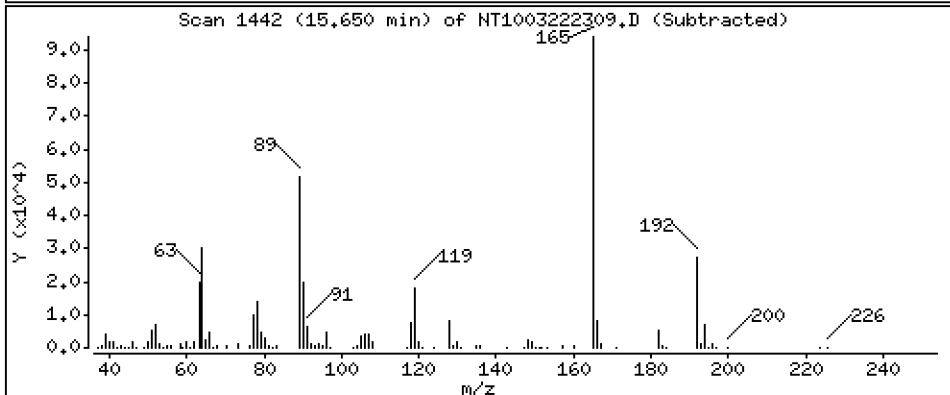
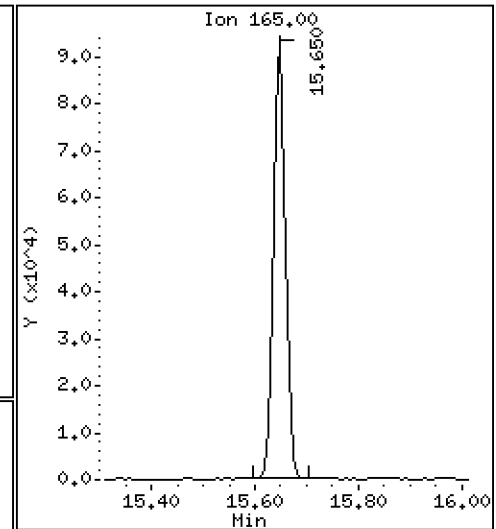
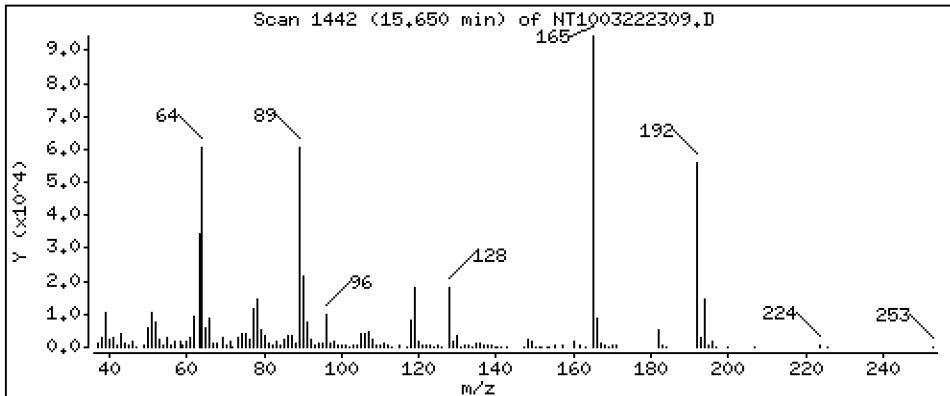
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

48 2,4-Dinitrotoluene

Concentration: 3,954 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

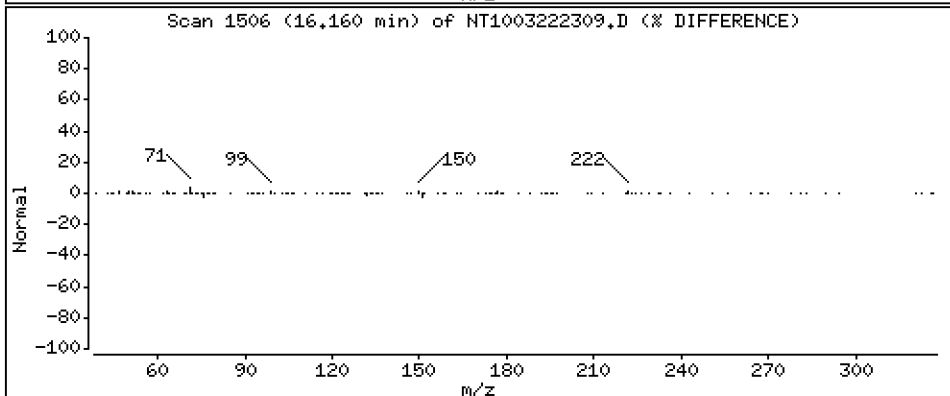
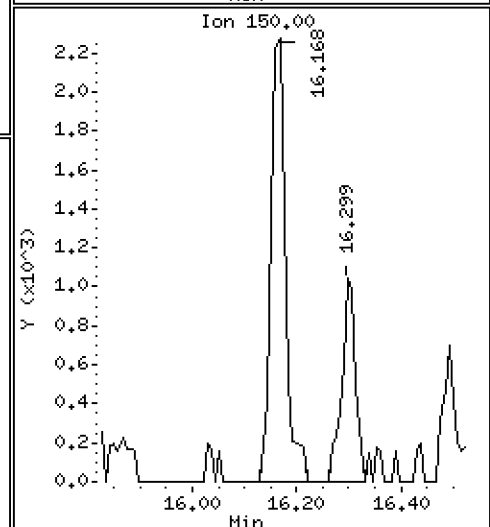
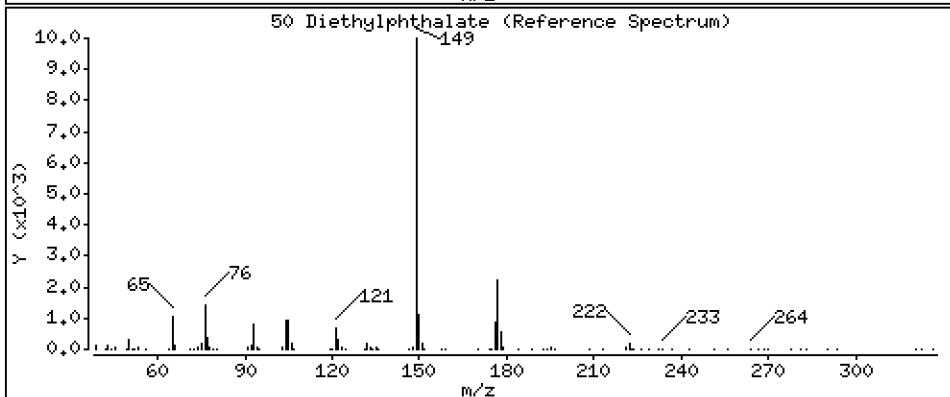
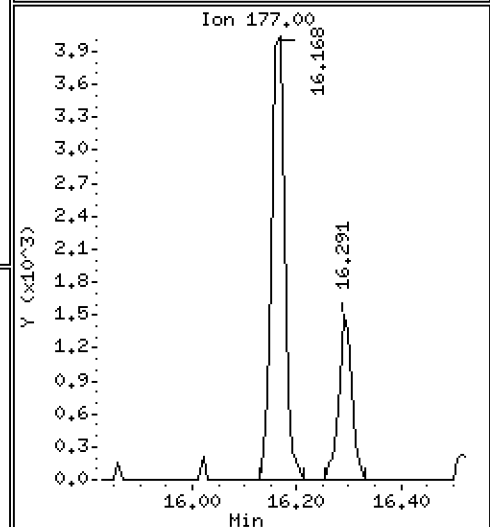
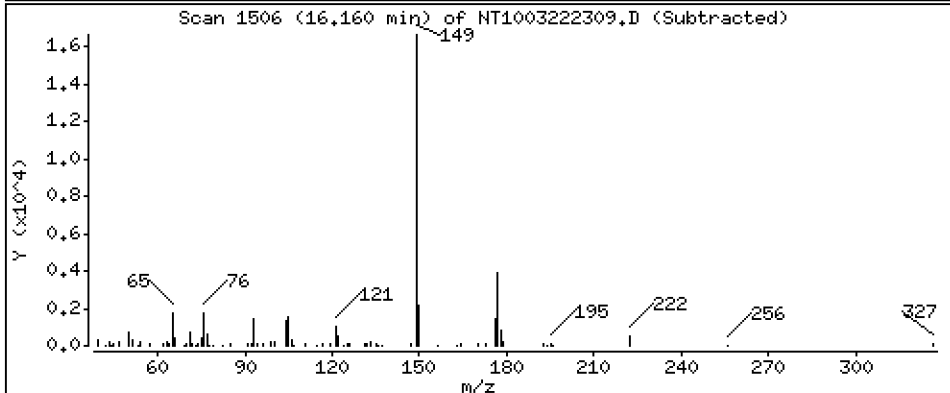
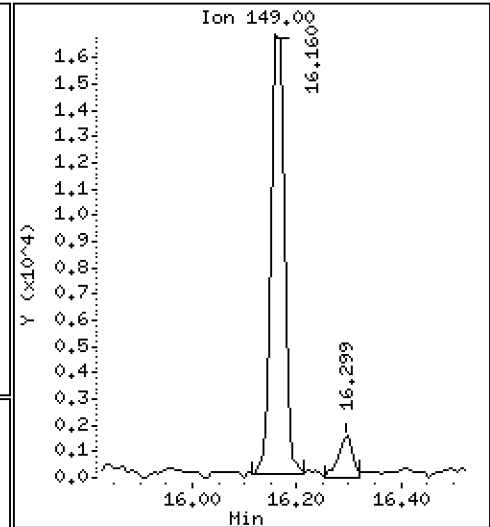
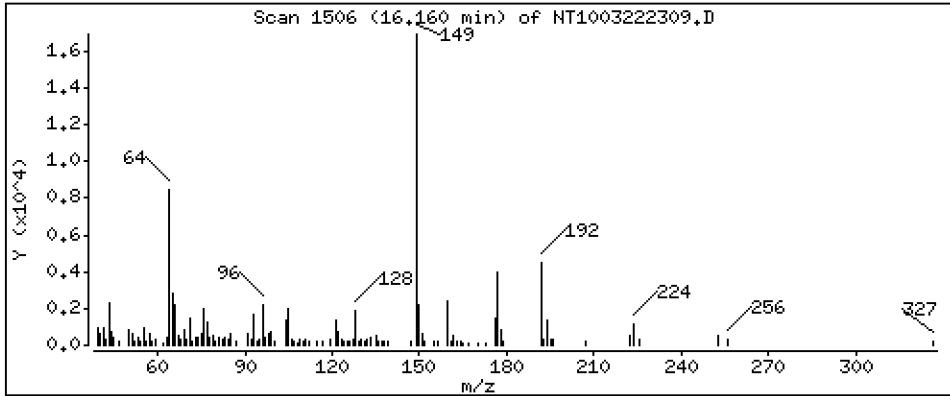
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 0,2959 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

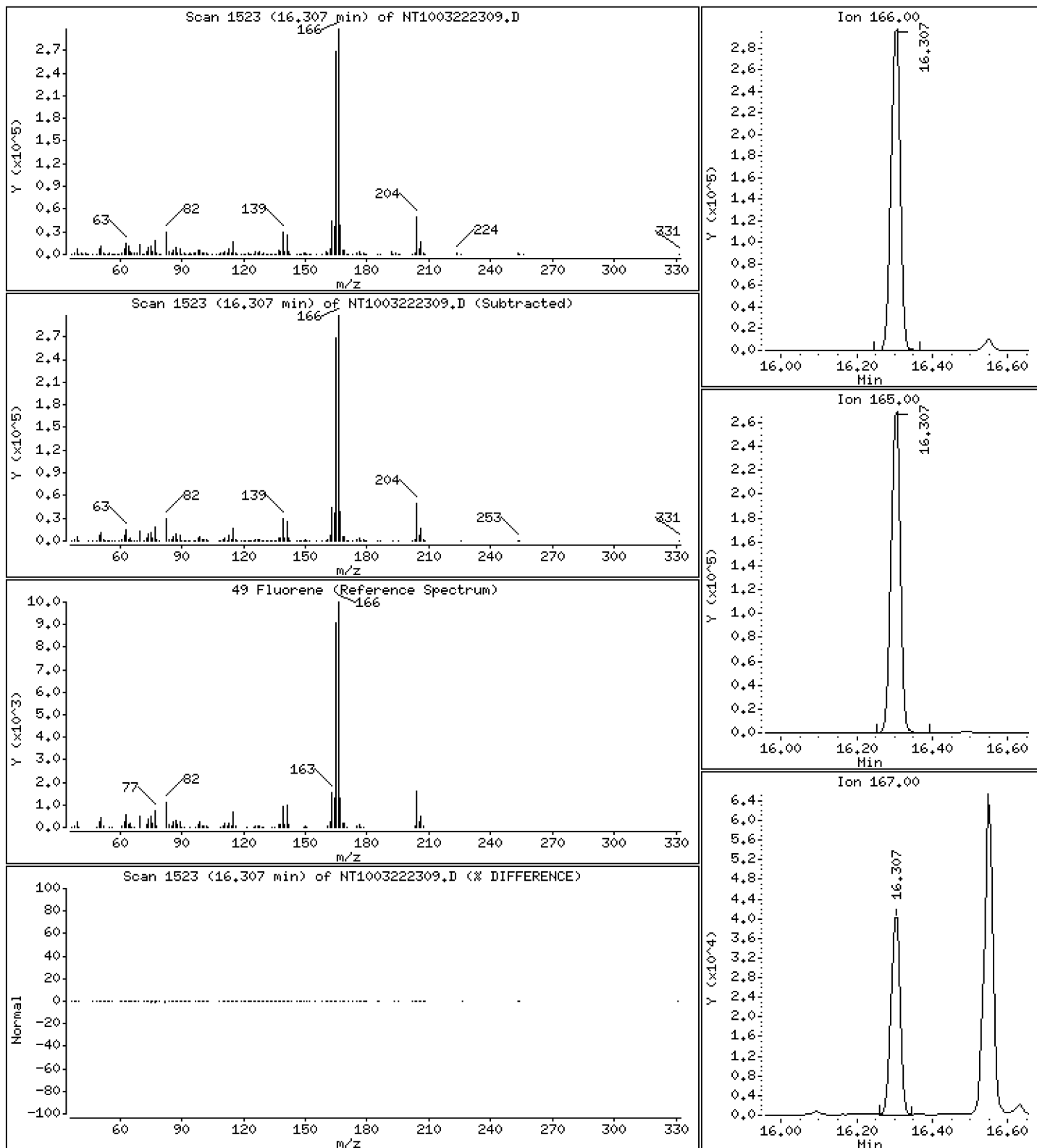
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 3,870 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

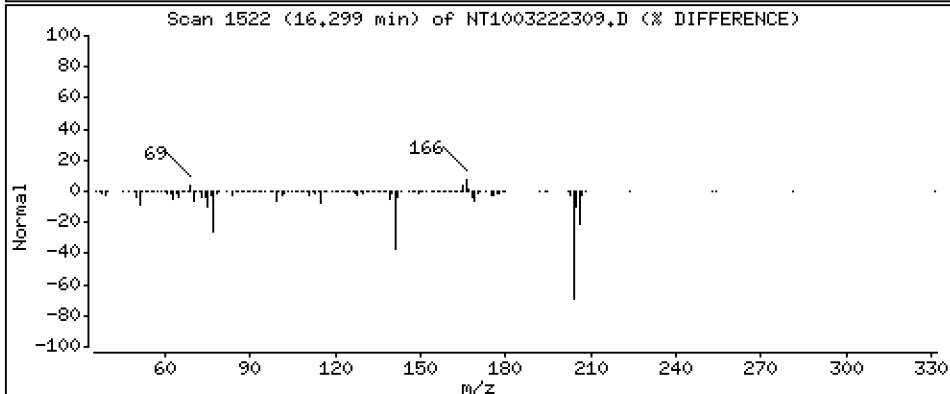
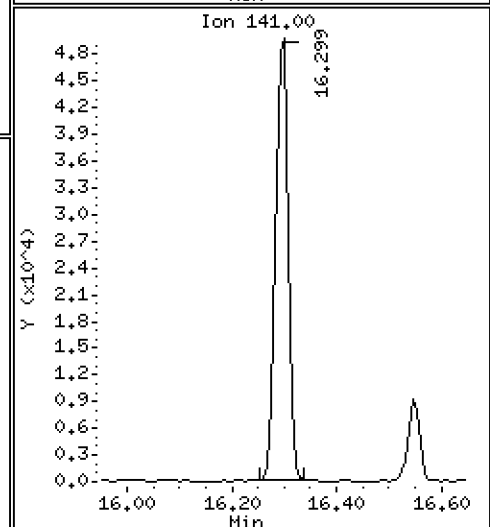
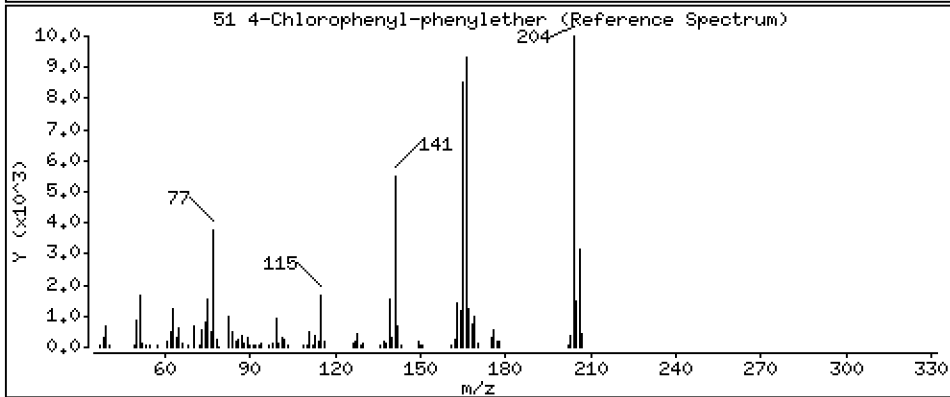
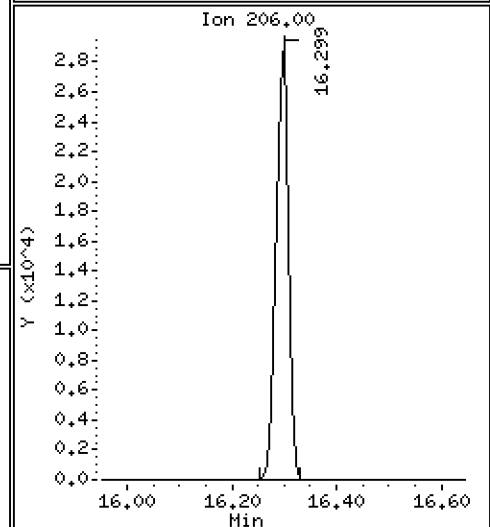
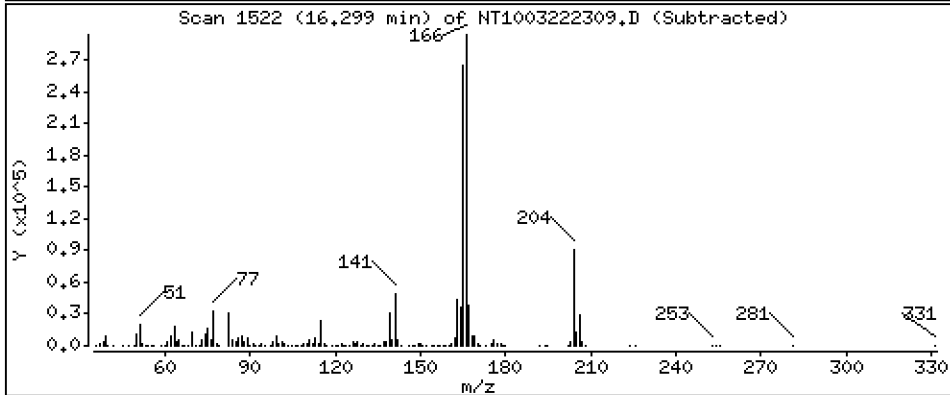
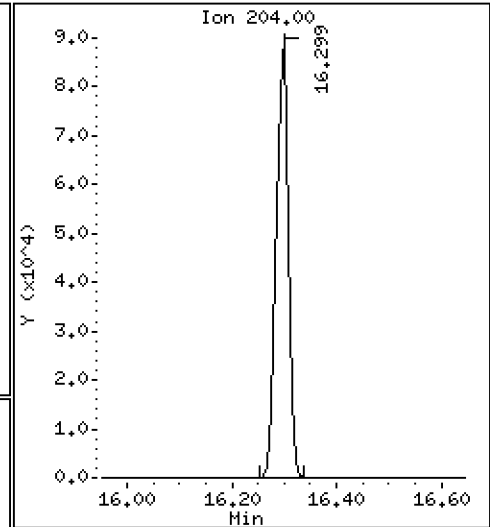
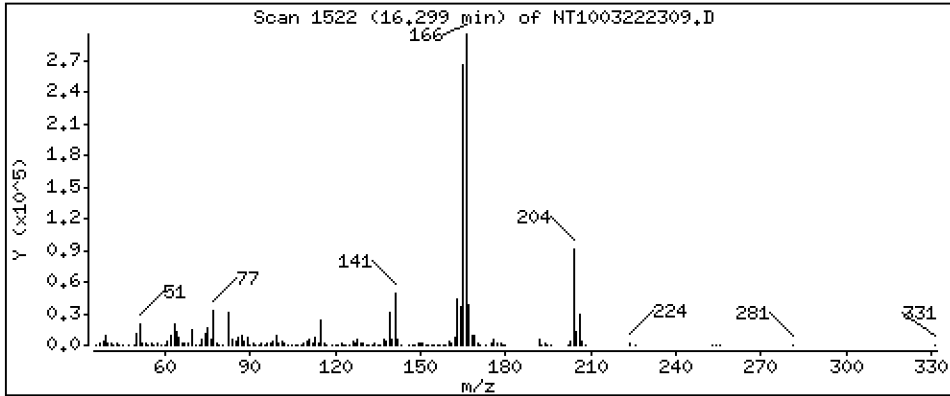
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 2,330 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

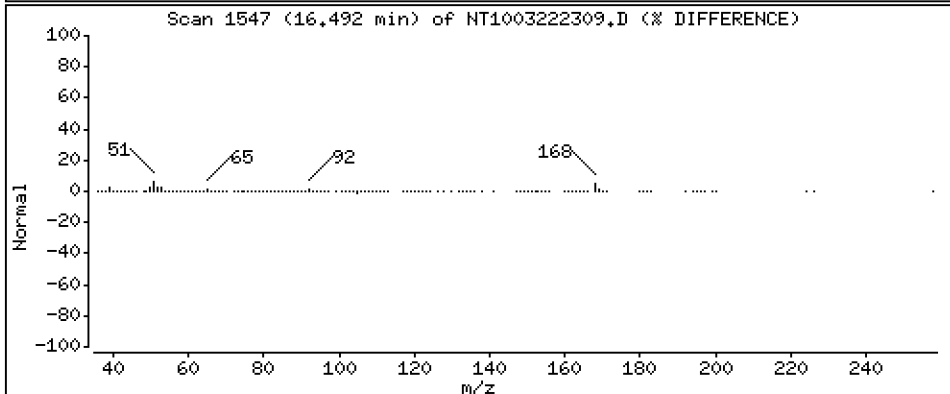
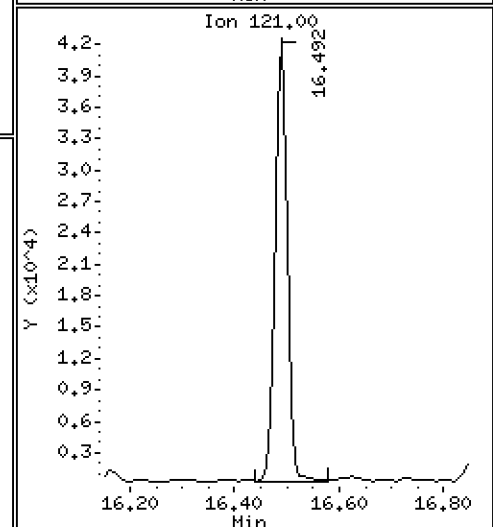
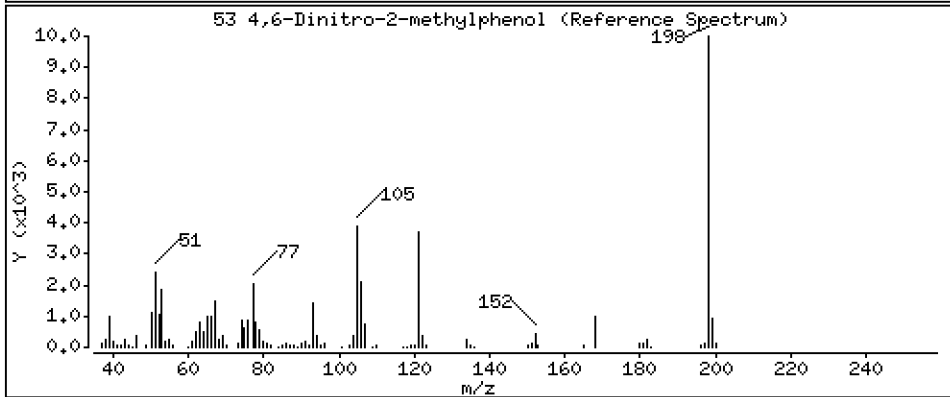
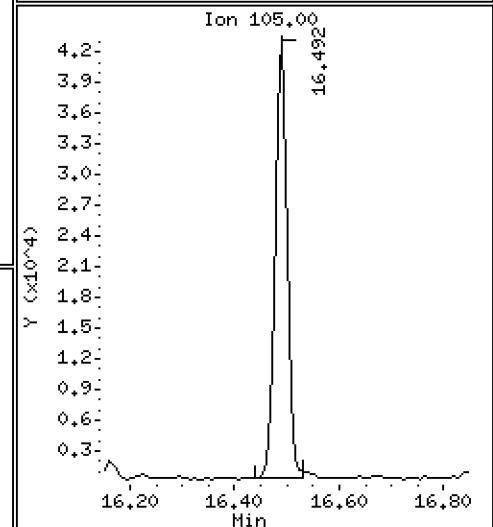
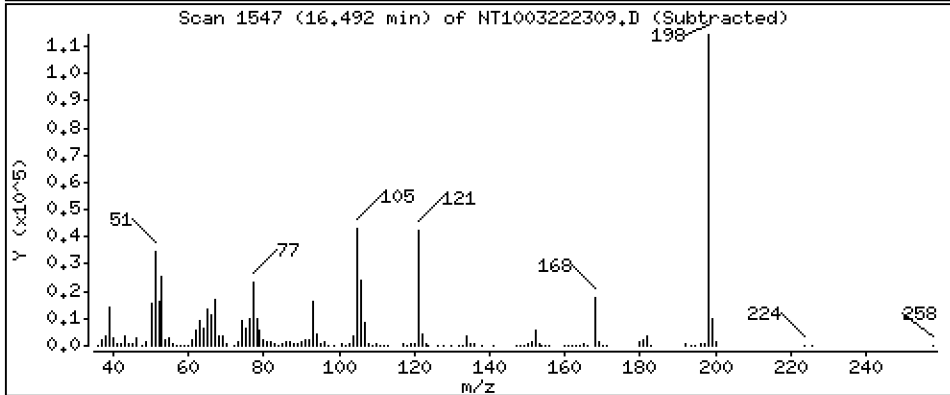
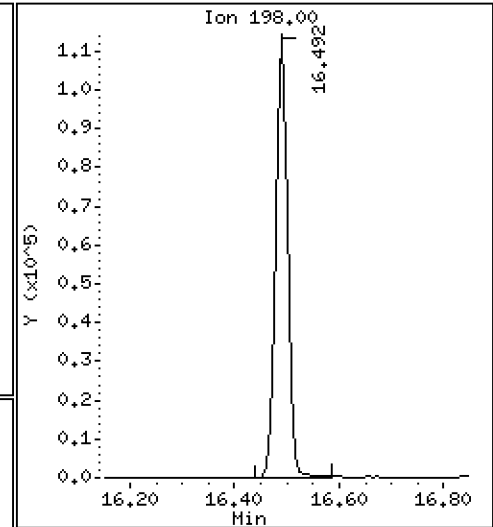
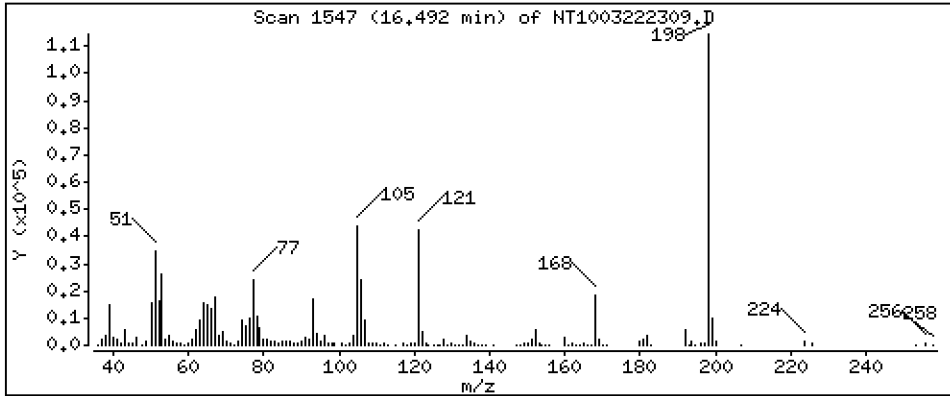
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

53 4,6-Dinitro-2-methylphenol

Concentration: 8,665 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

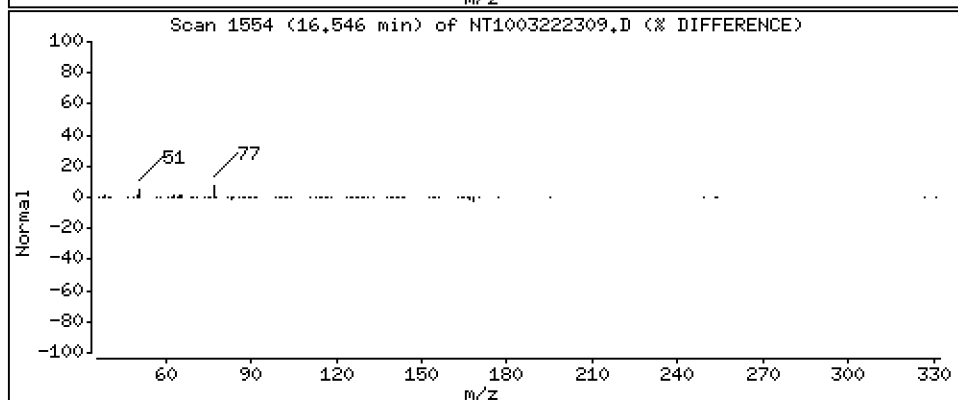
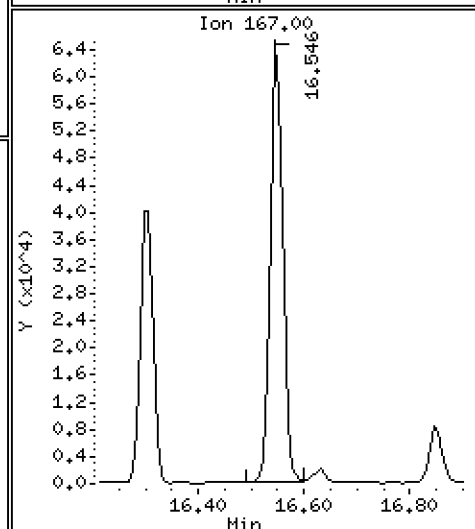
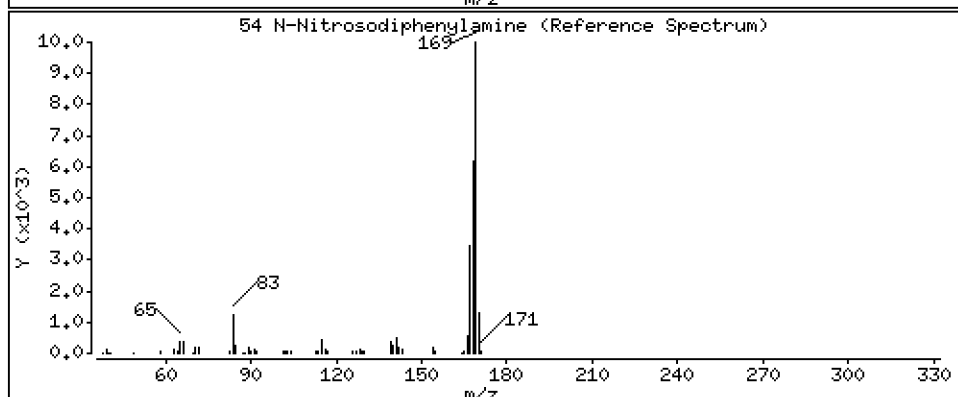
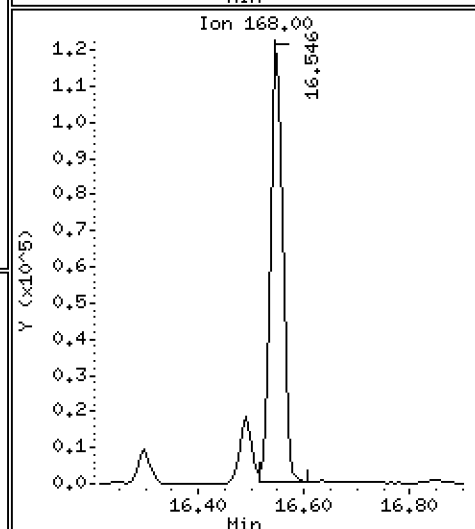
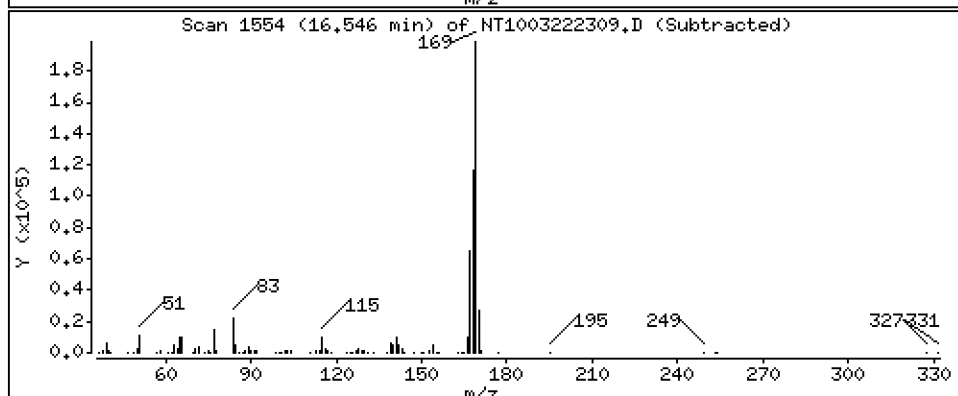
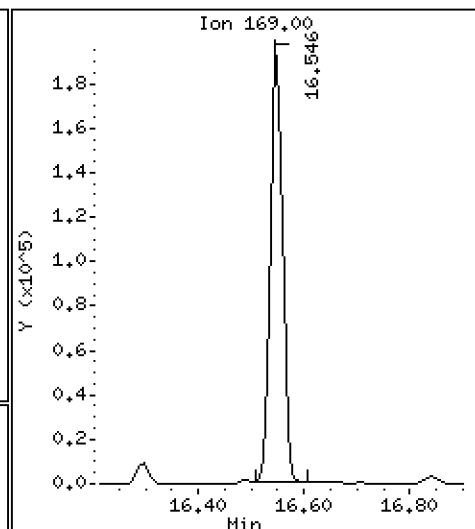
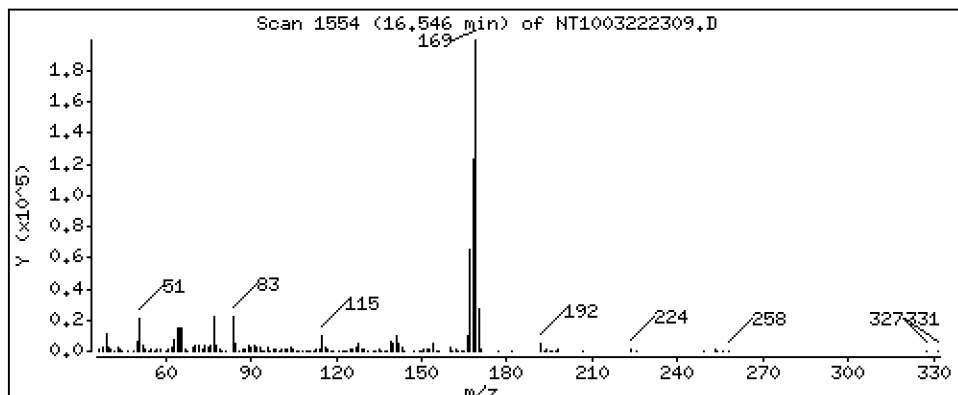
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

54 N-Nitrosodiphenylamine

Concentration: 3,552 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

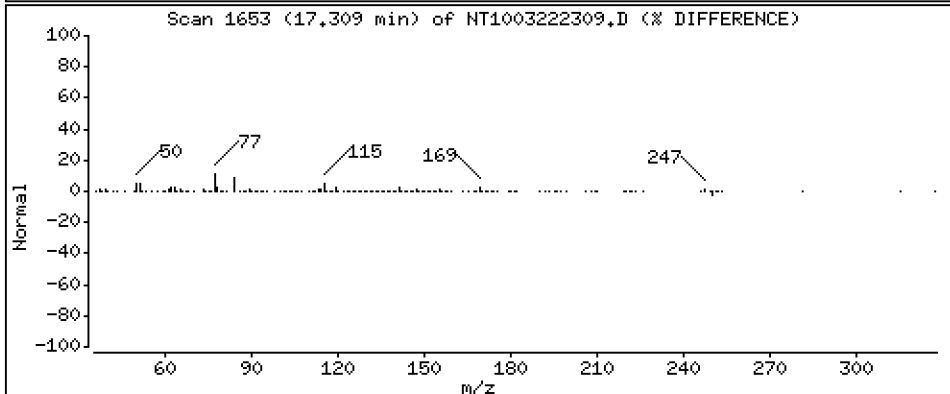
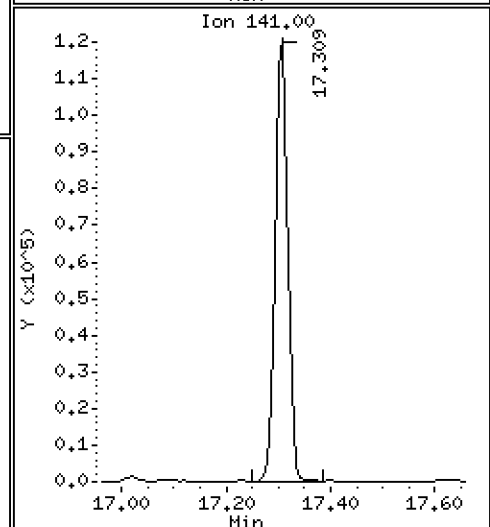
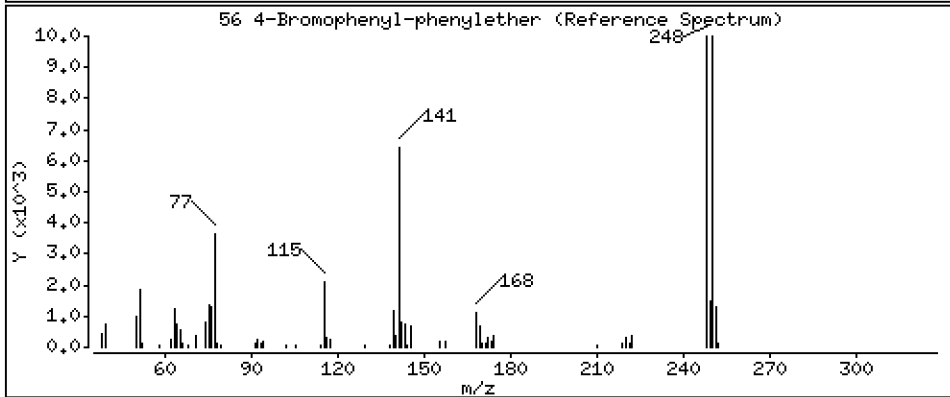
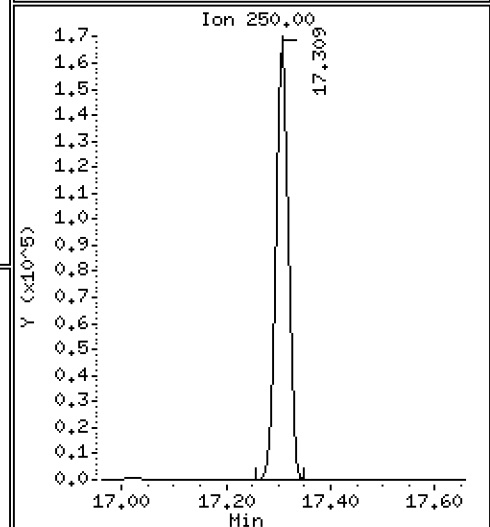
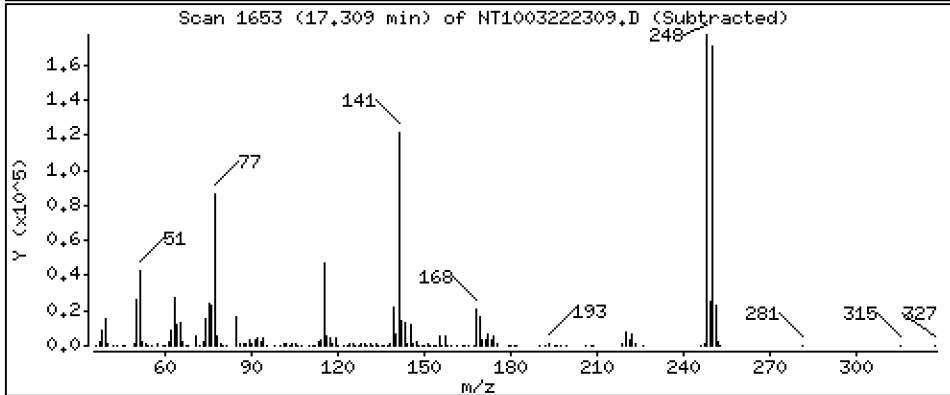
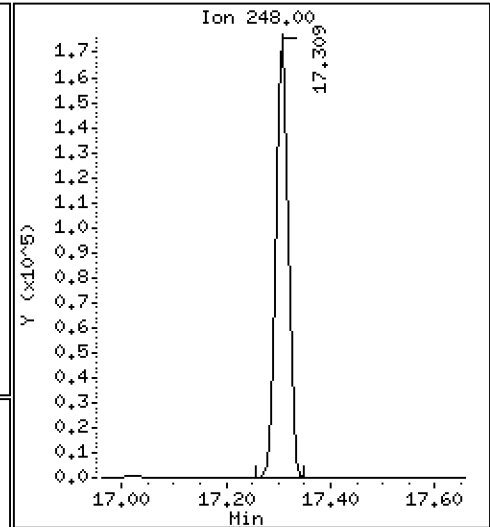
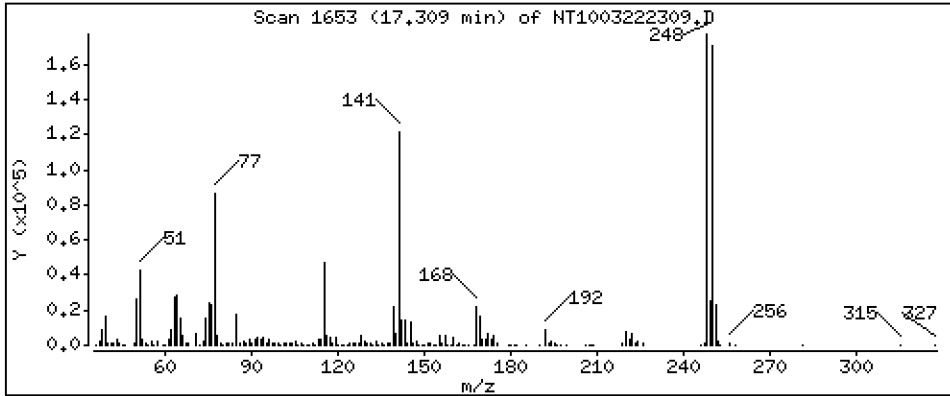
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 7,975 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

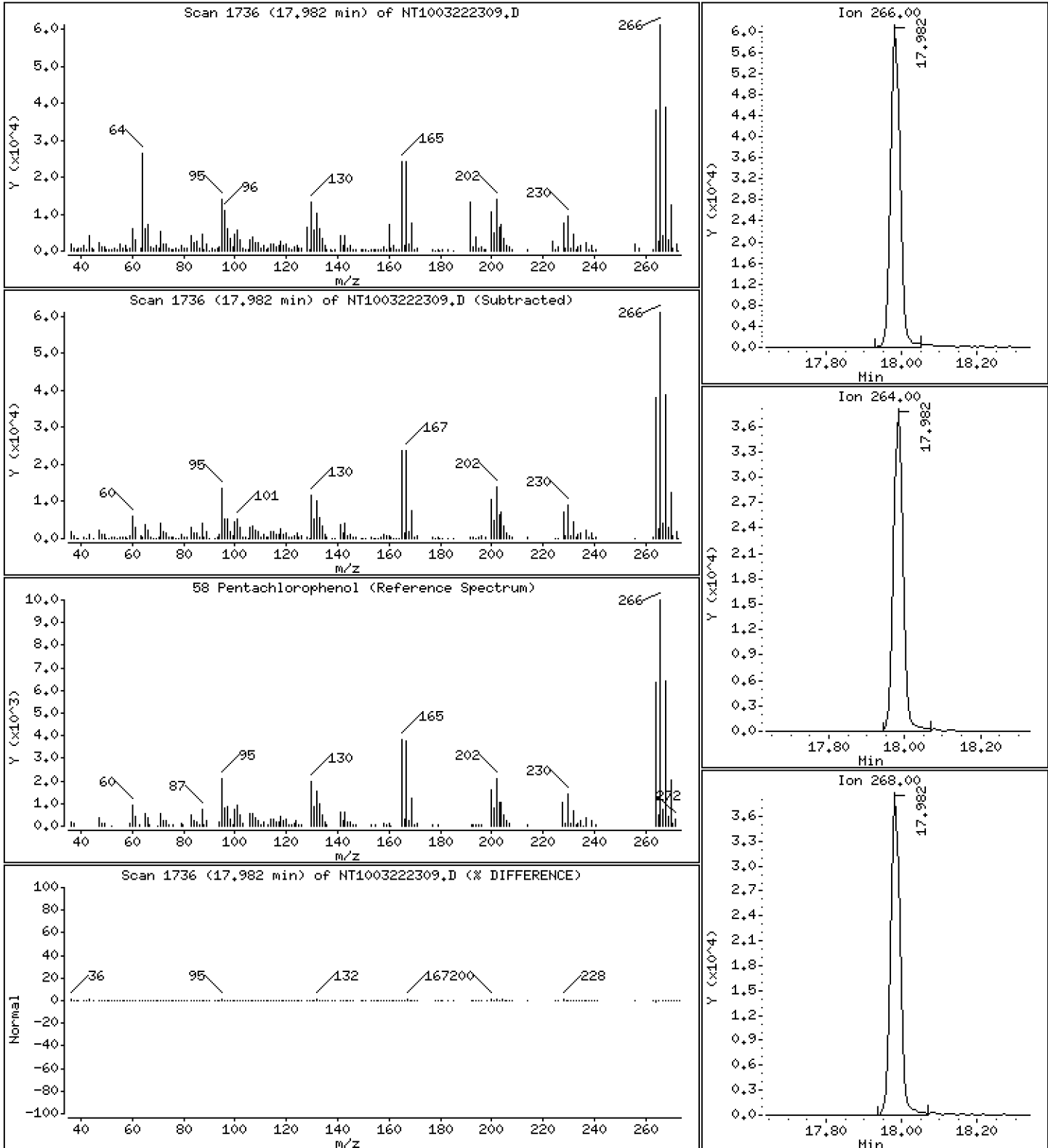
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 4,458 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

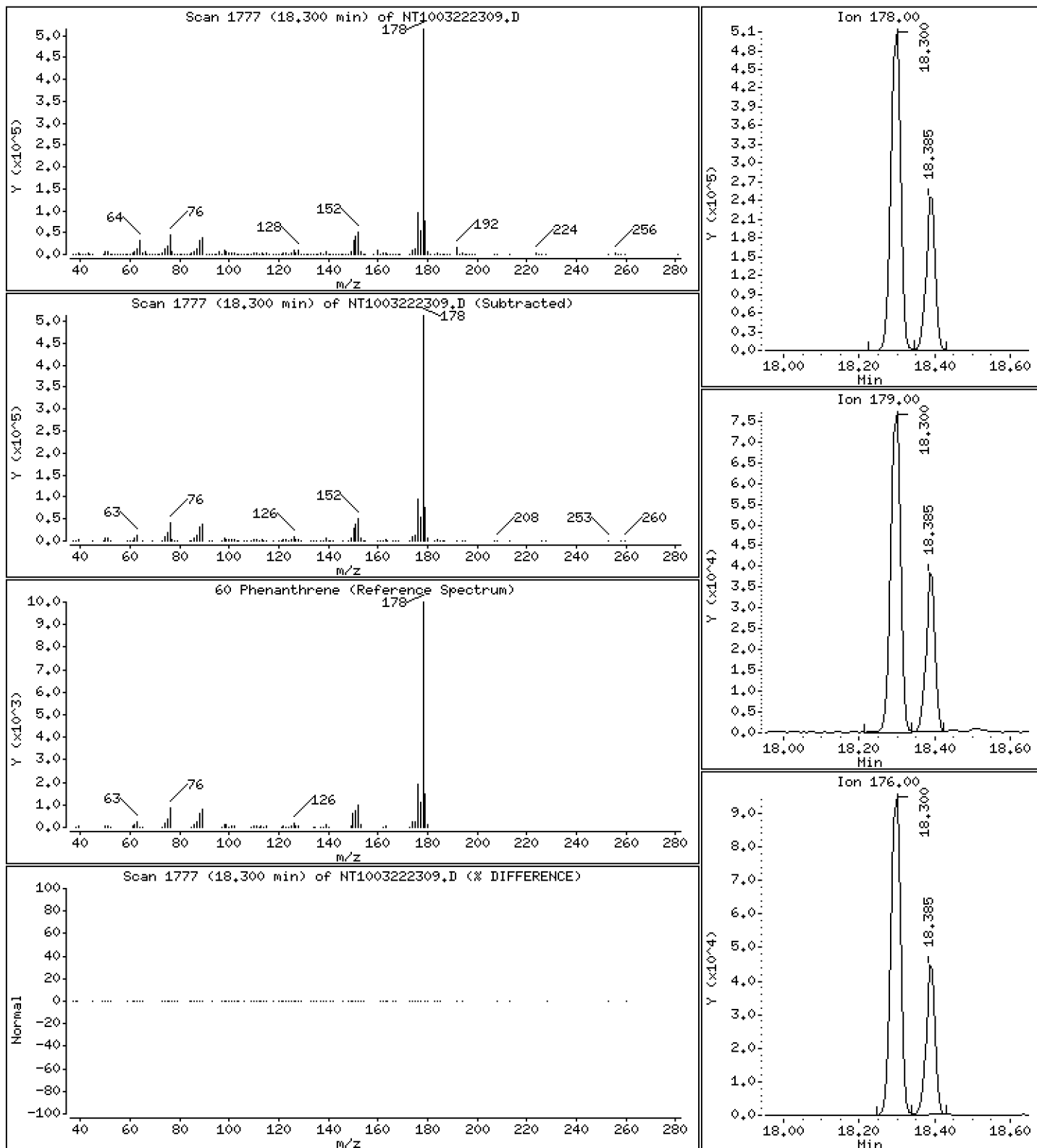
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 4,946 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

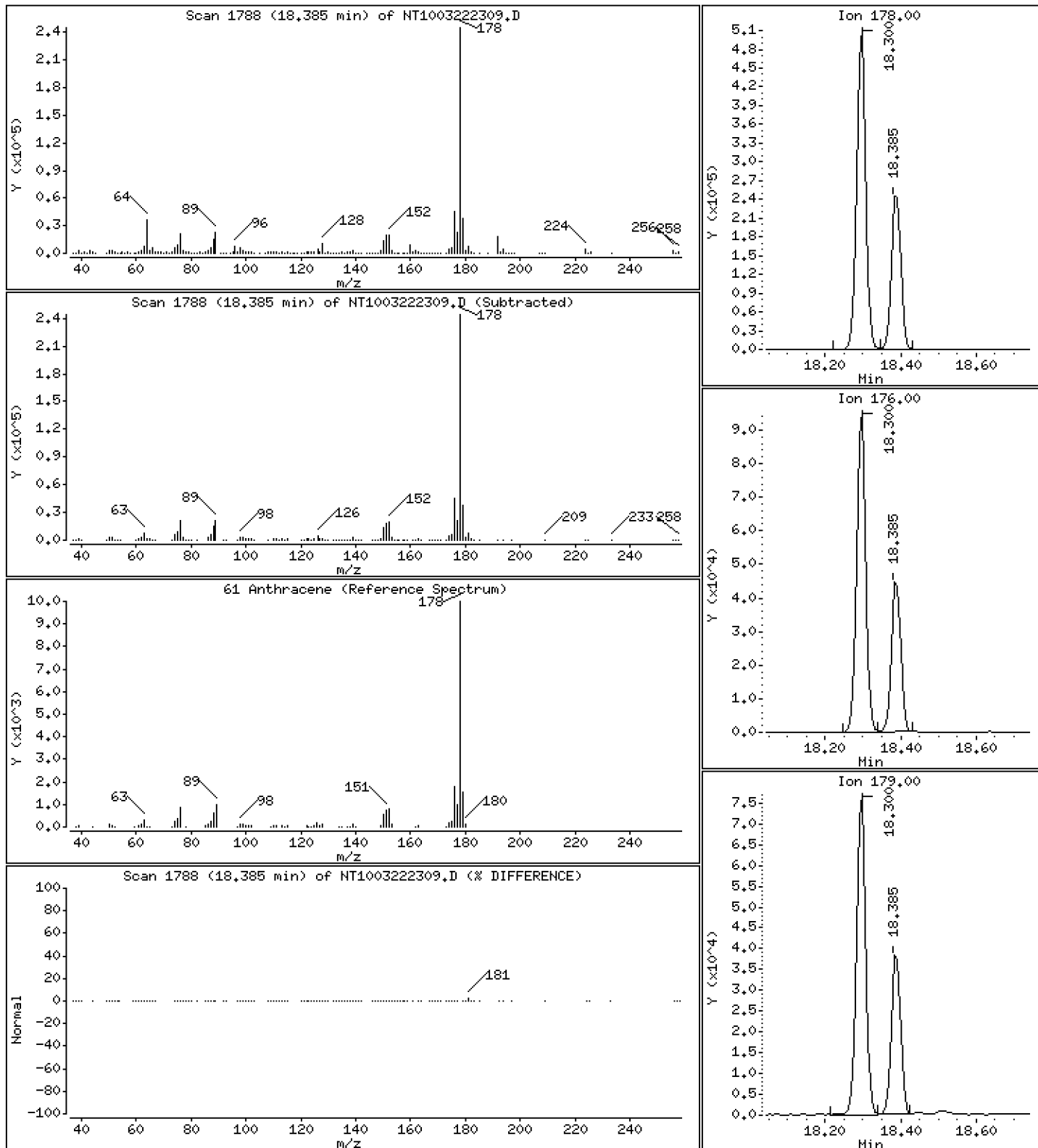
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 2,408 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

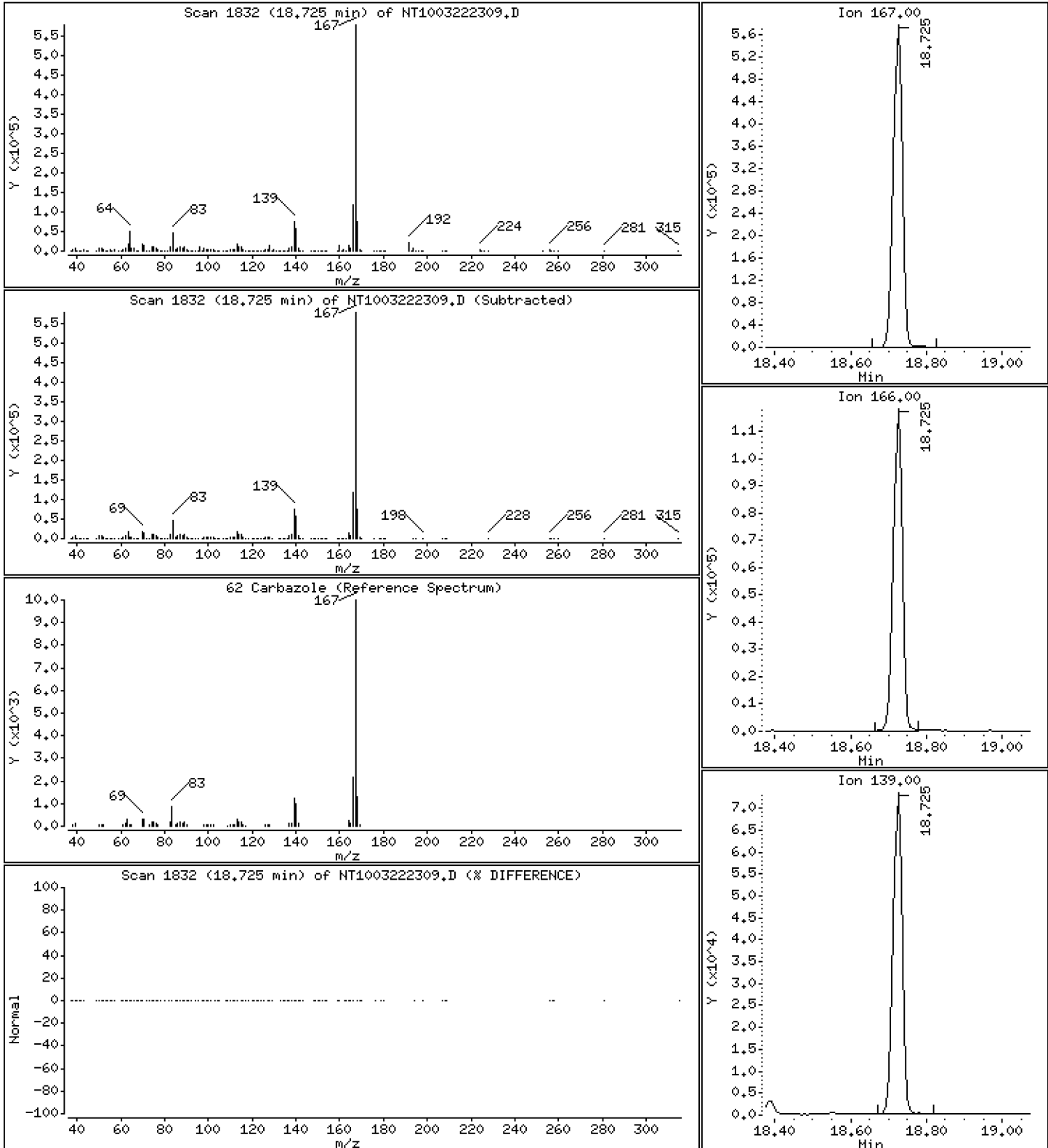
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 6,084 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

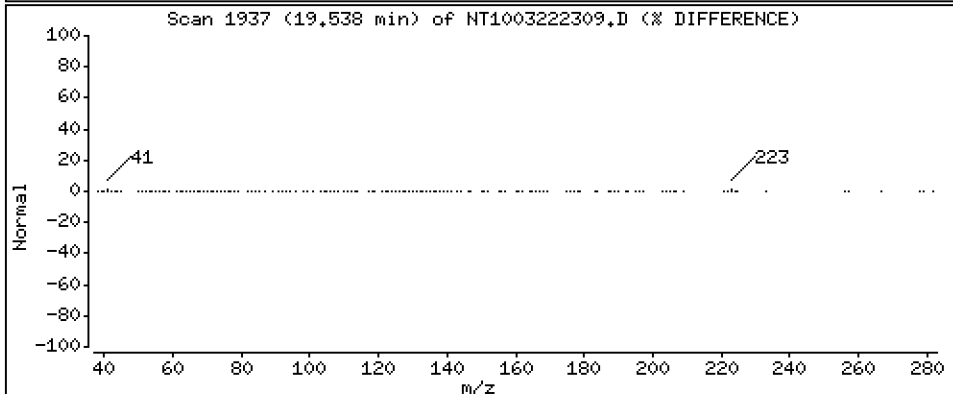
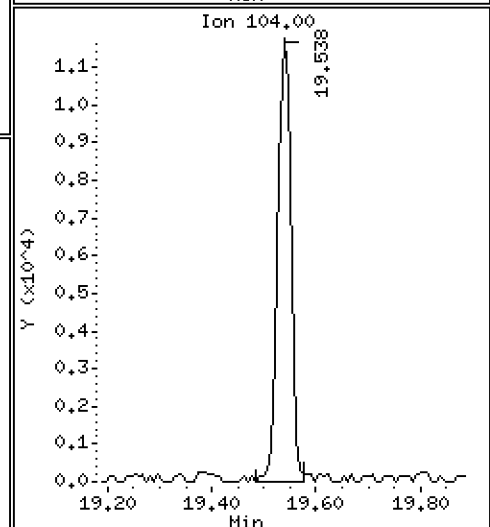
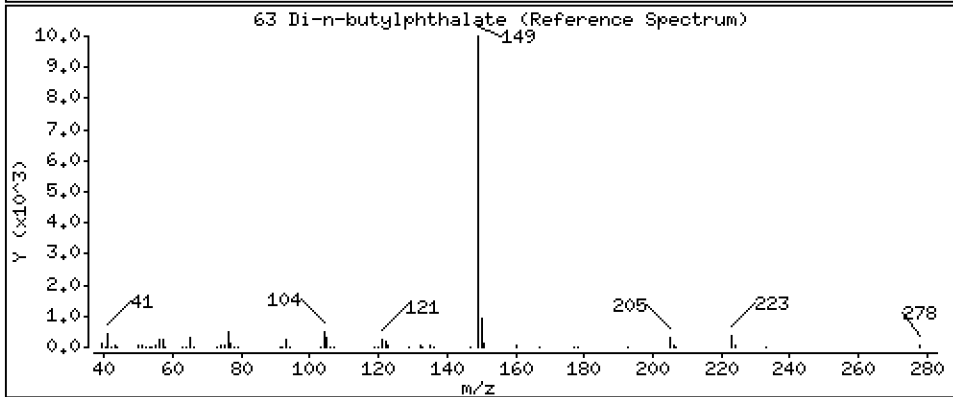
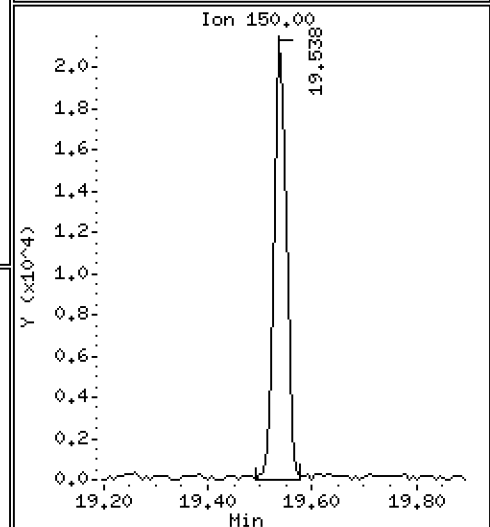
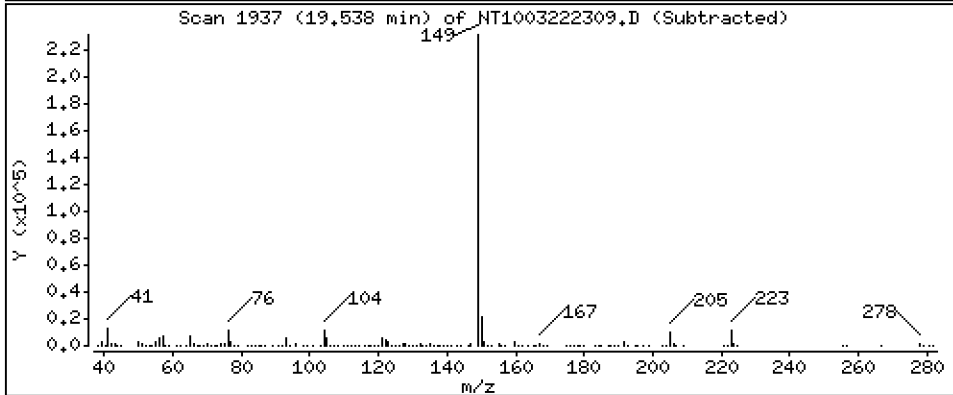
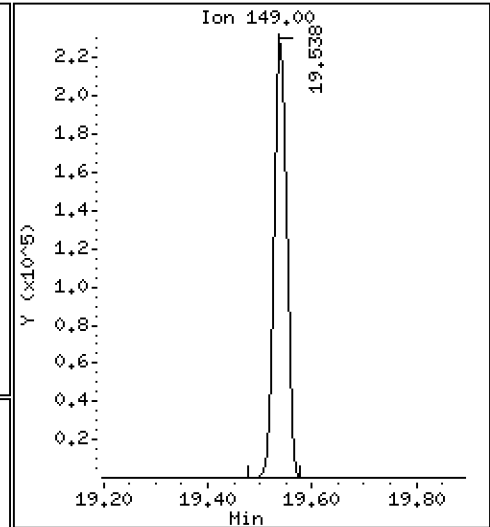
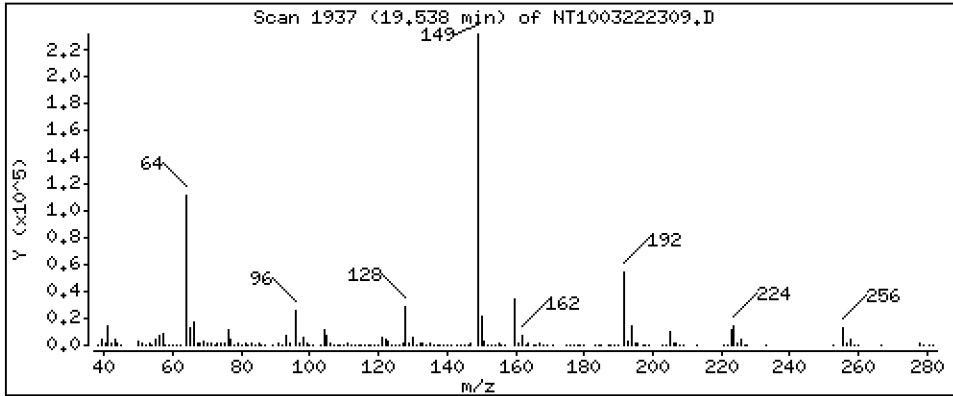
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 1,853 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

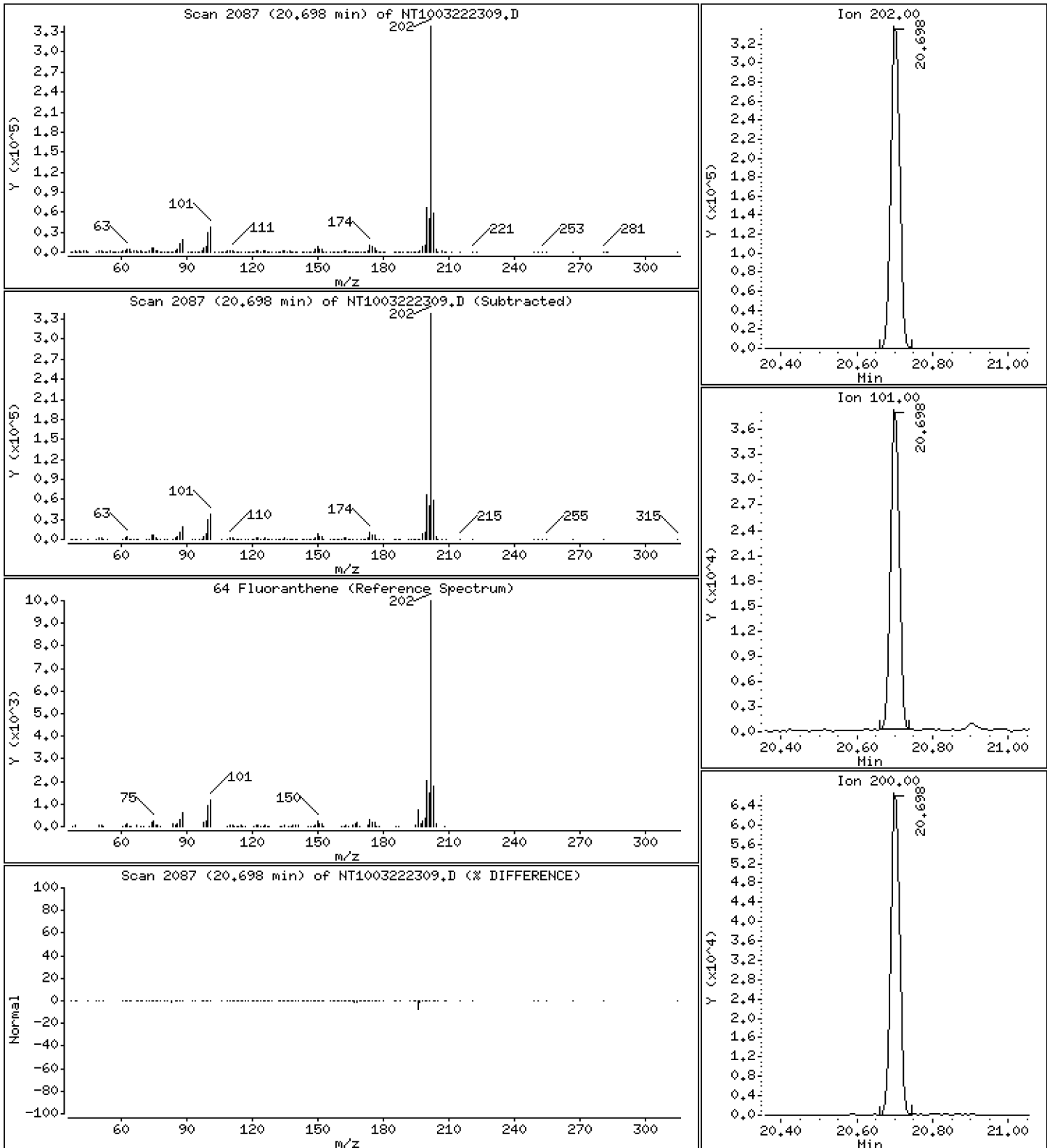
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 2,420 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

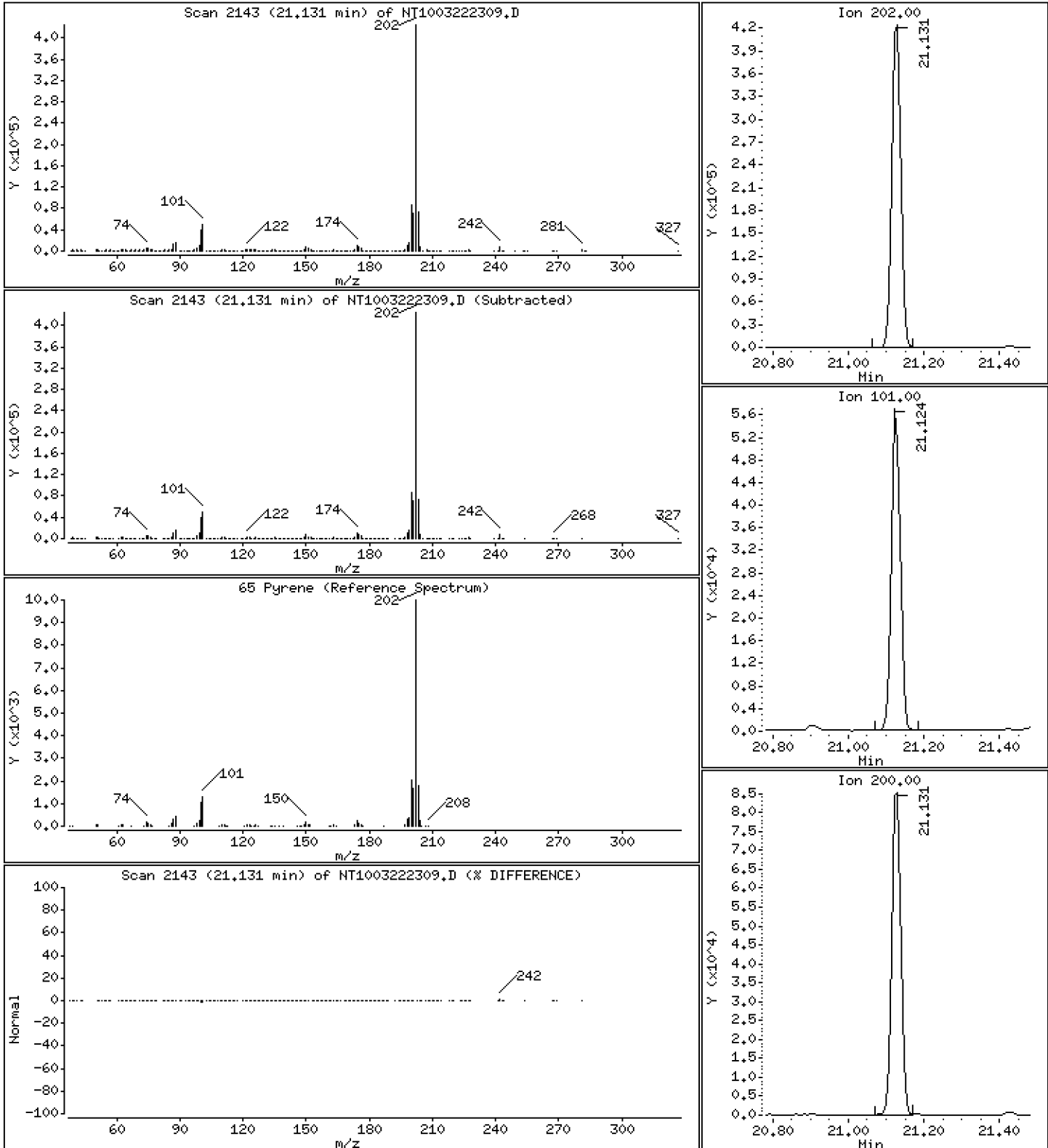
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 3,006 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

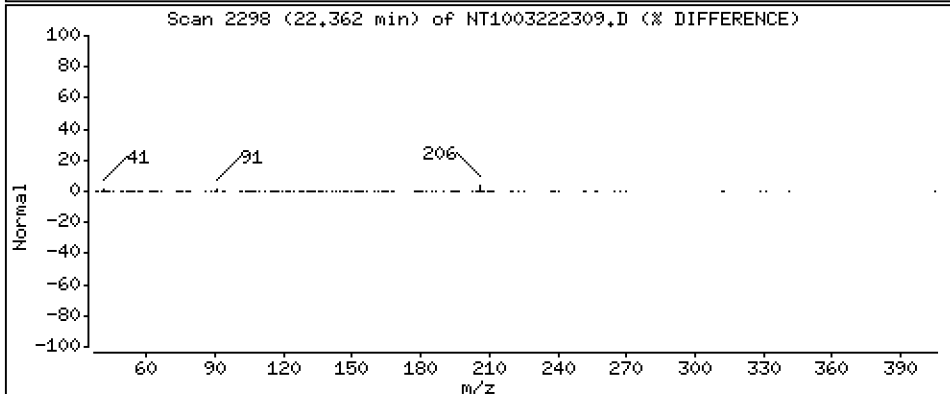
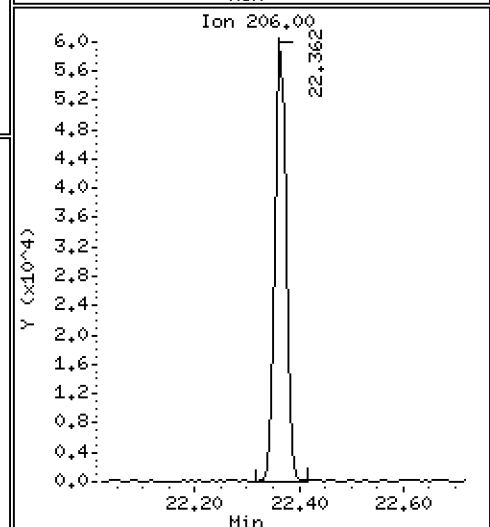
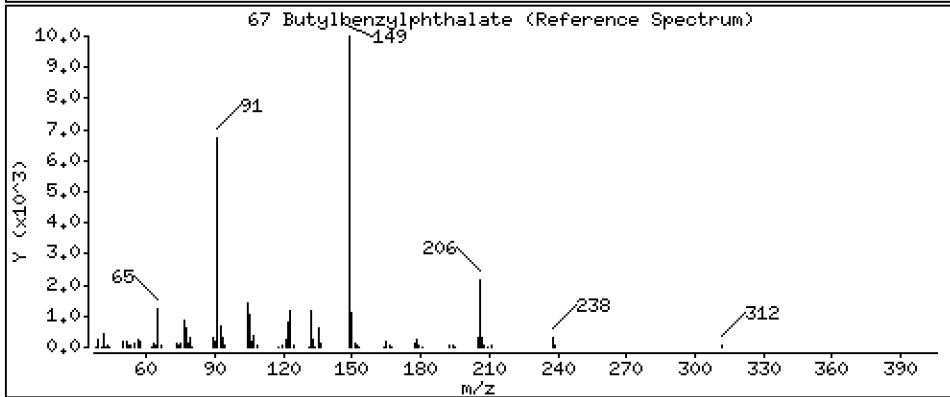
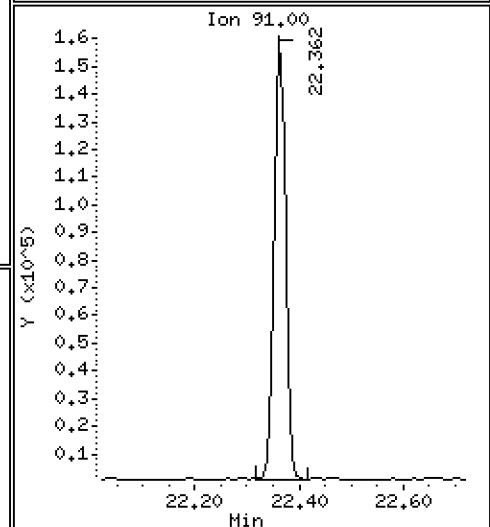
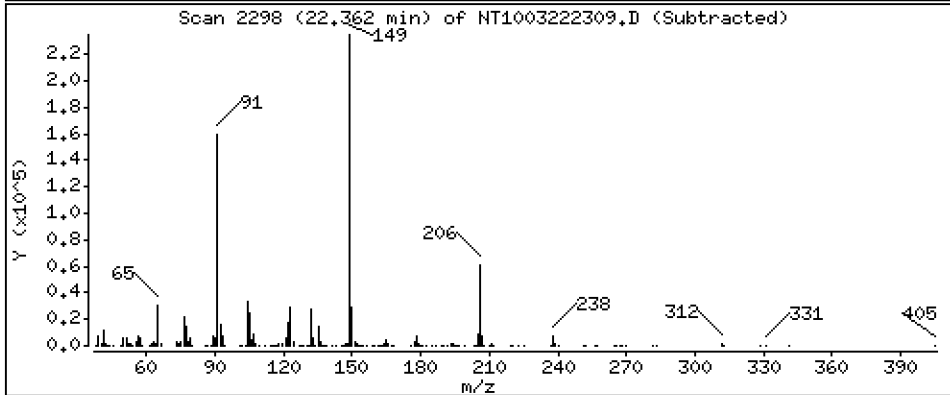
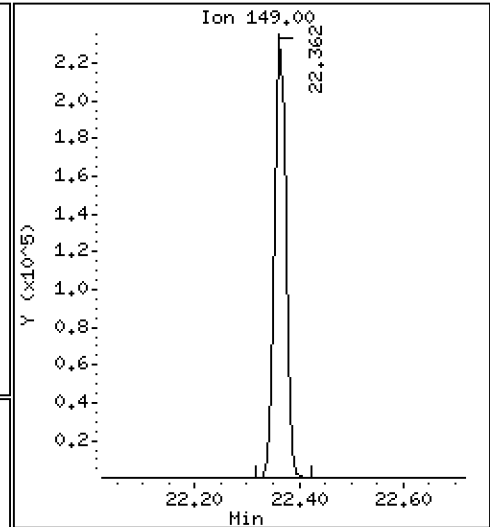
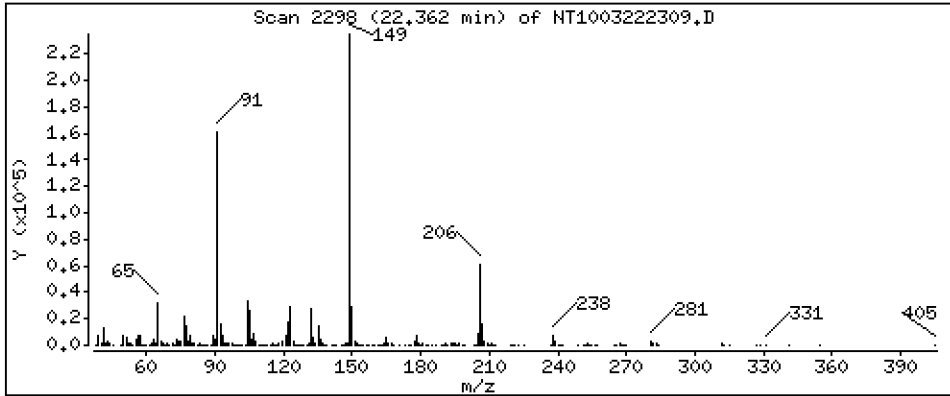
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 4,107 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

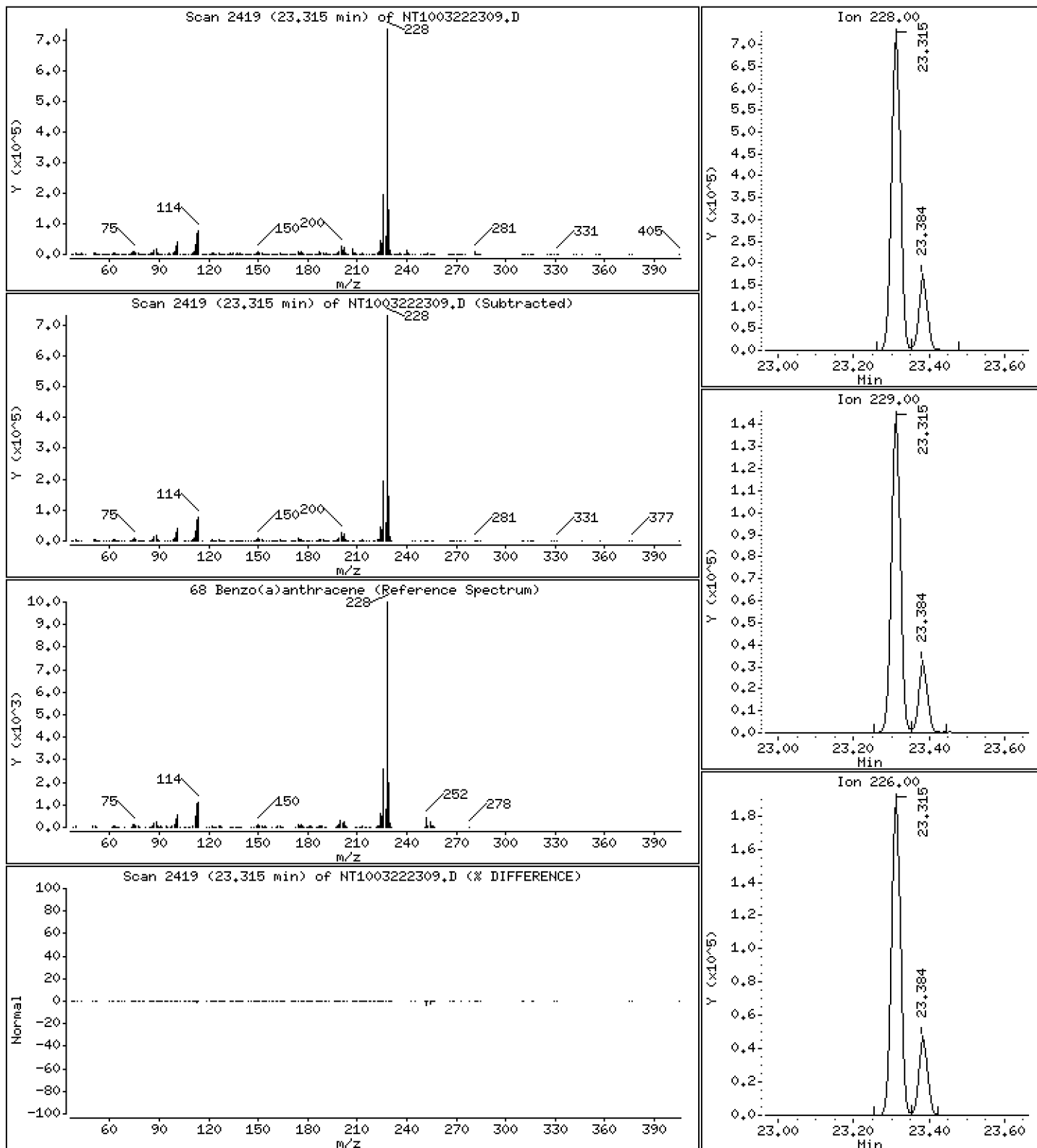
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 5,950 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

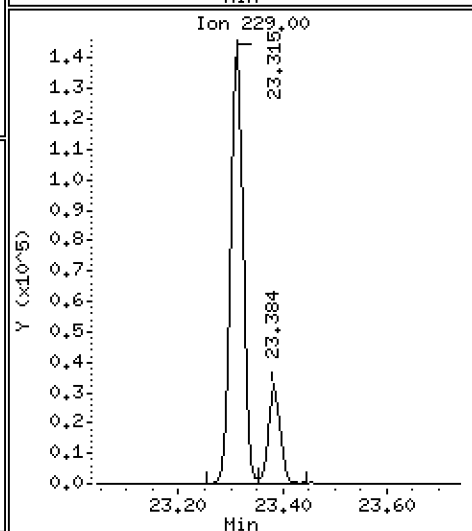
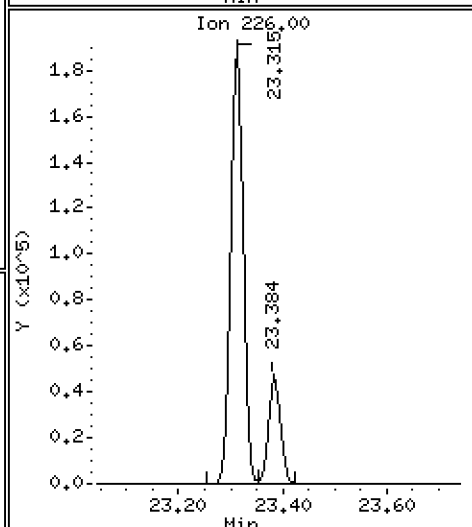
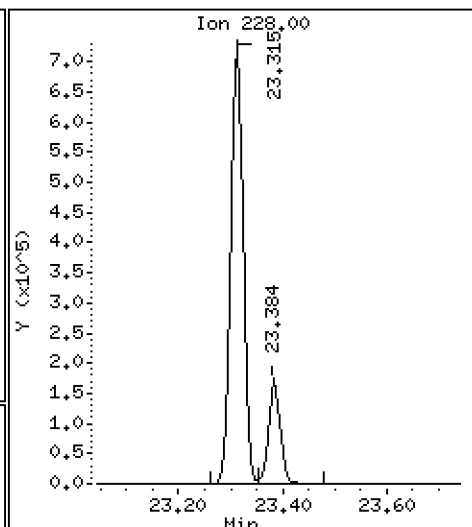
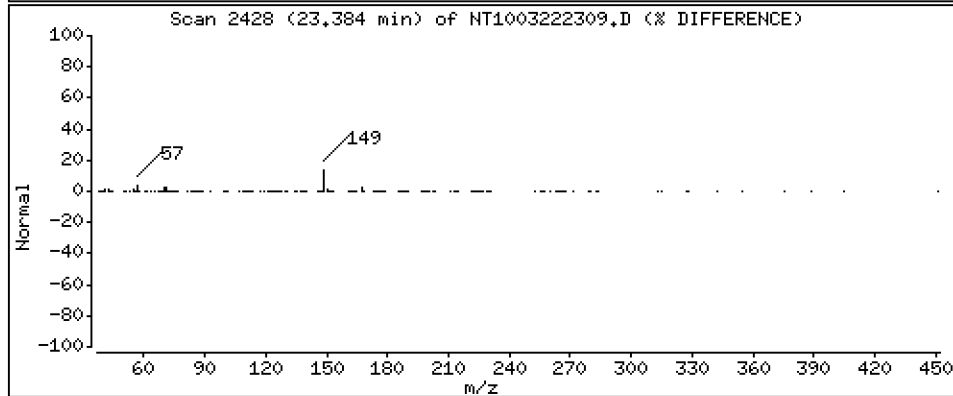
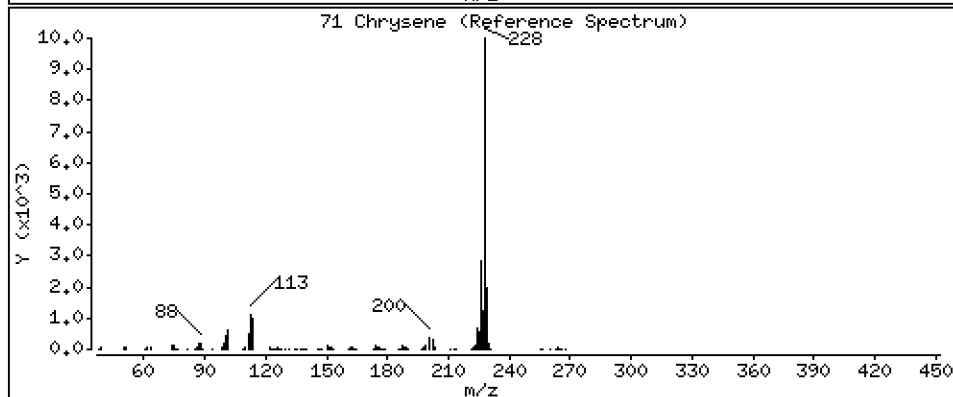
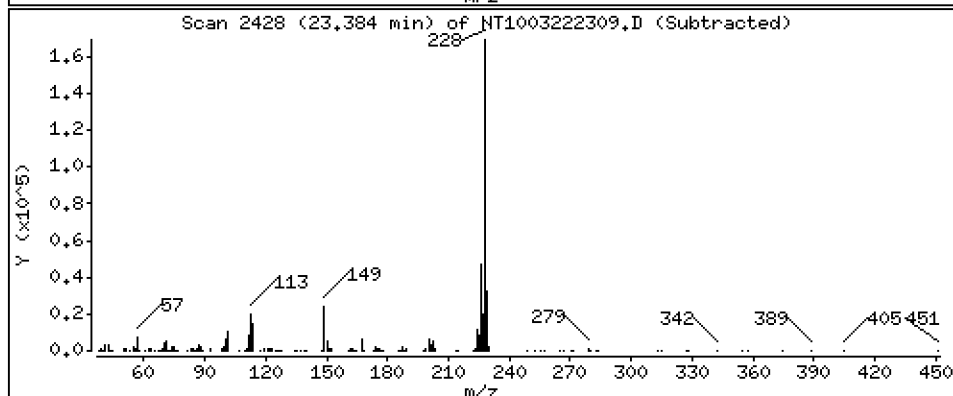
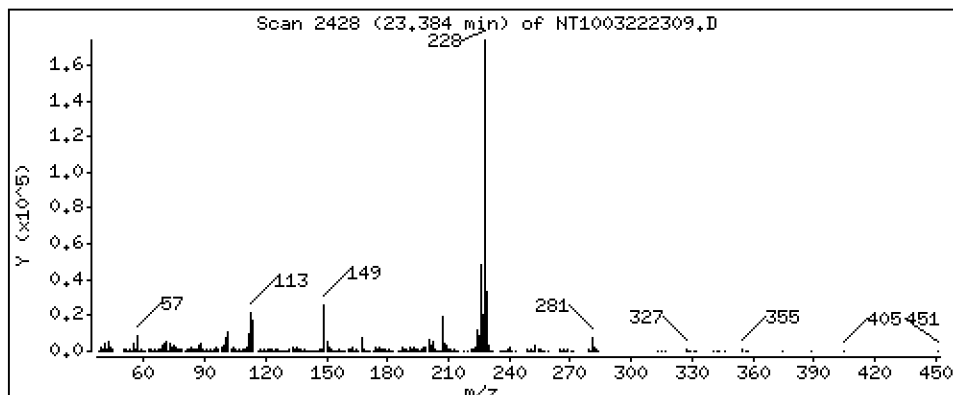
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 1,370 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

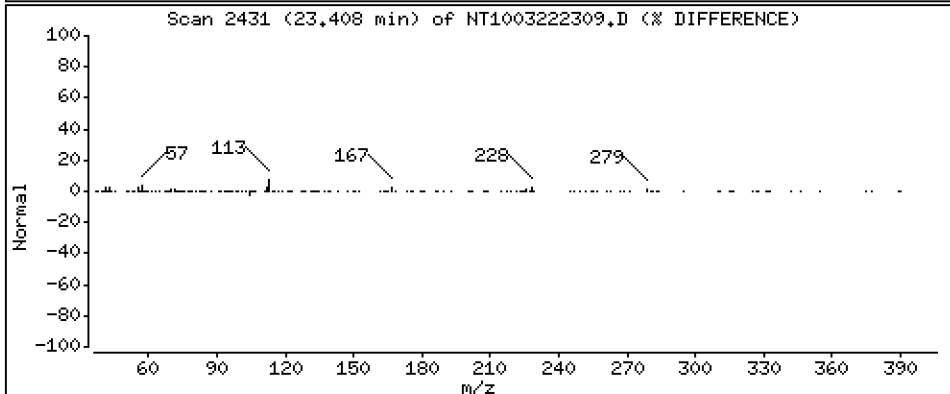
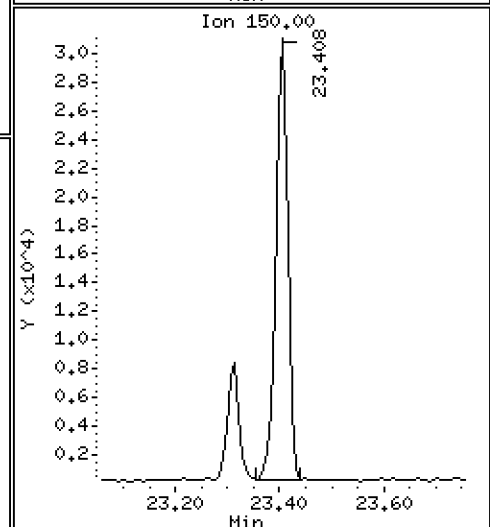
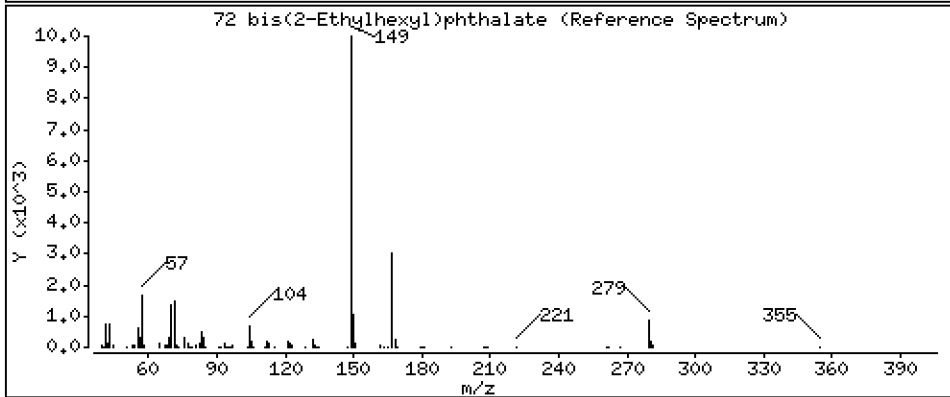
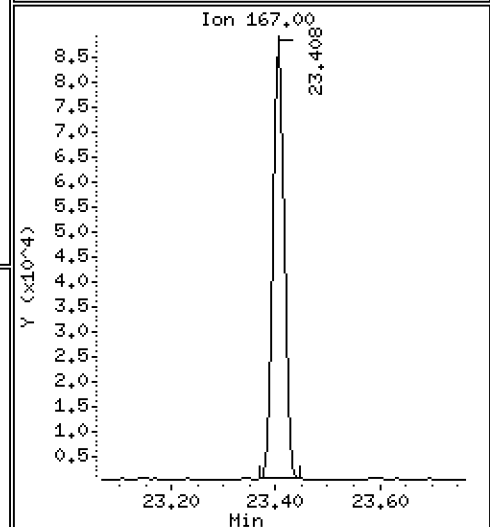
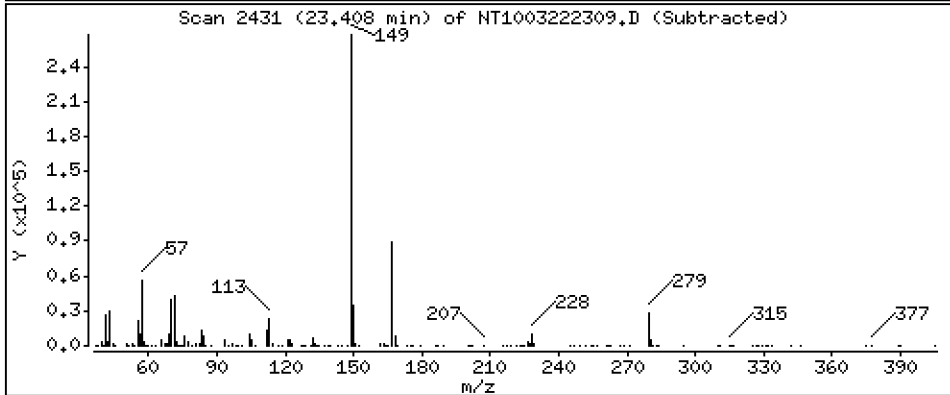
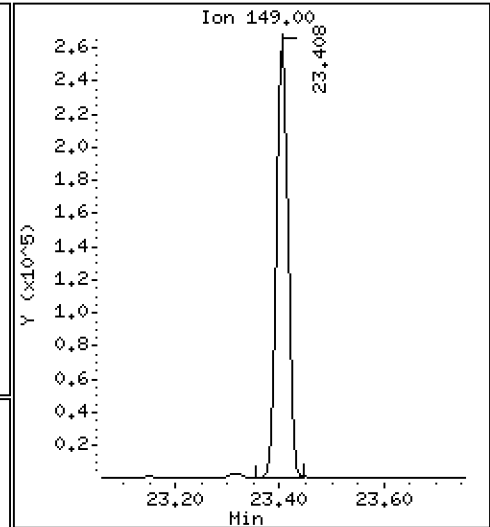
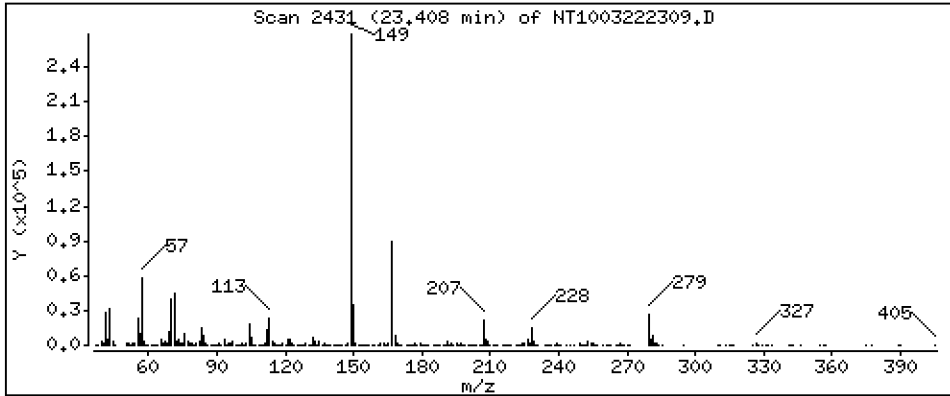
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 2,761 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

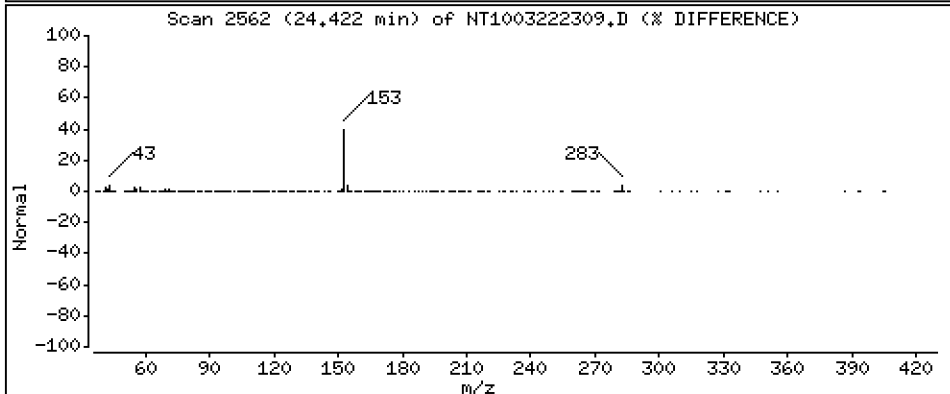
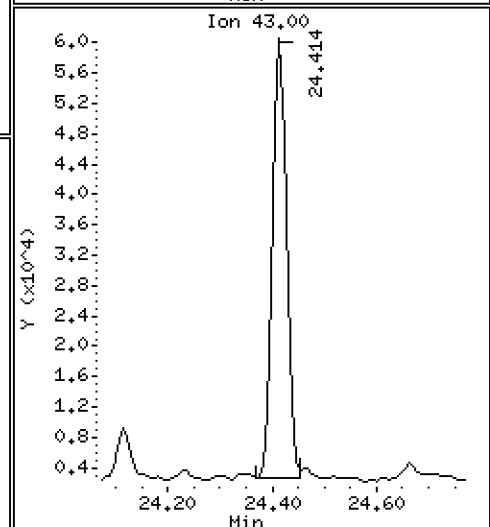
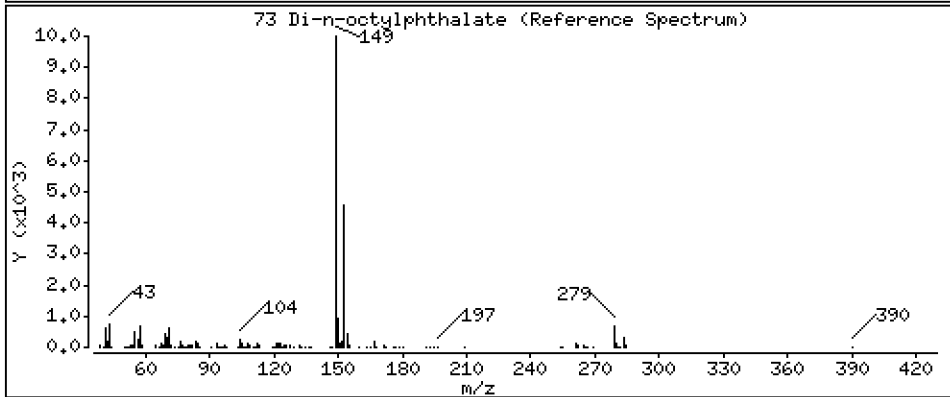
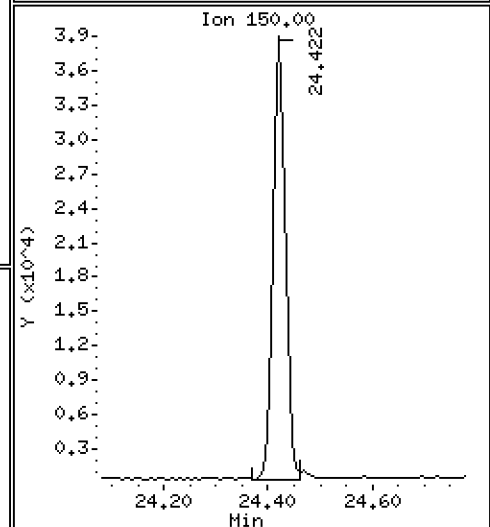
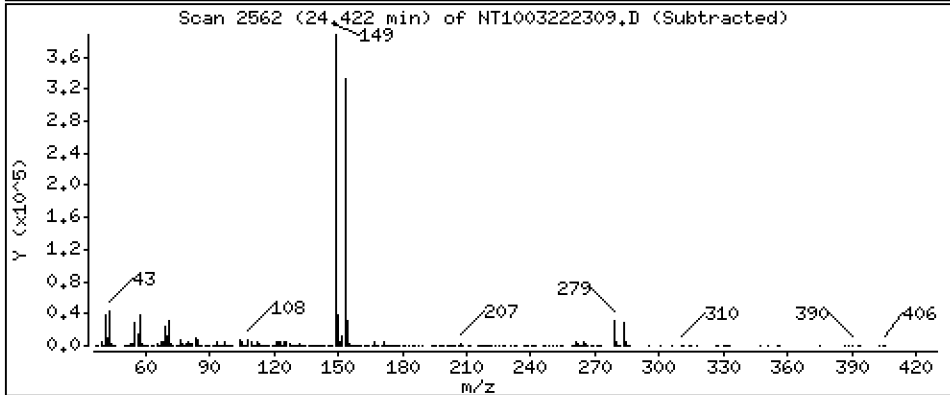
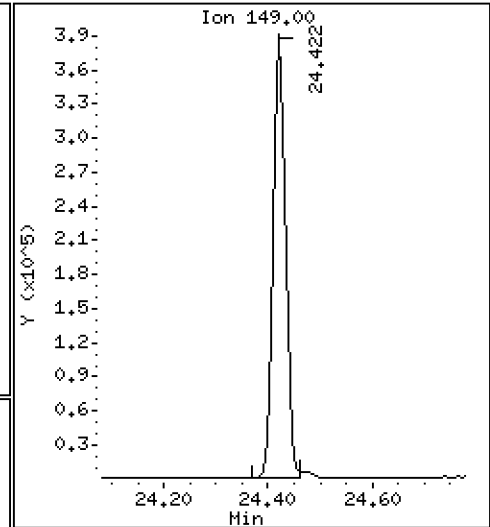
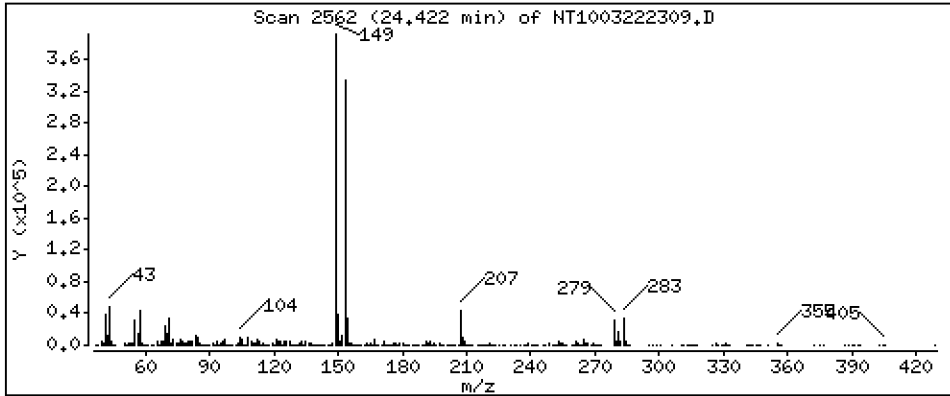
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 2,536 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

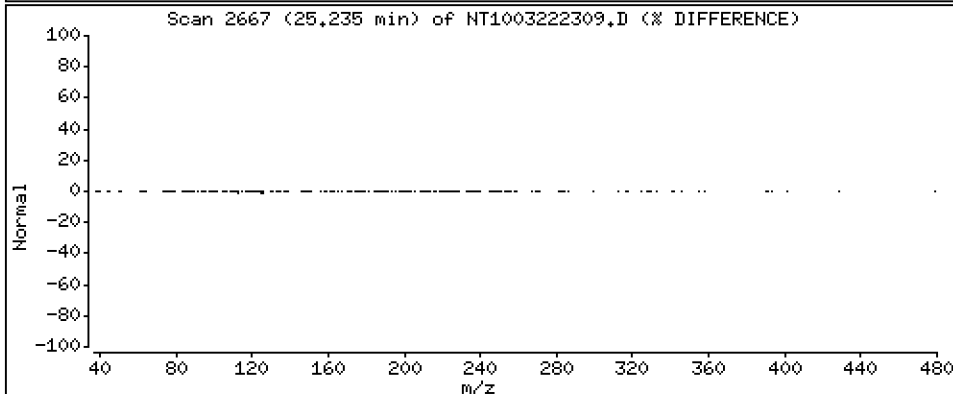
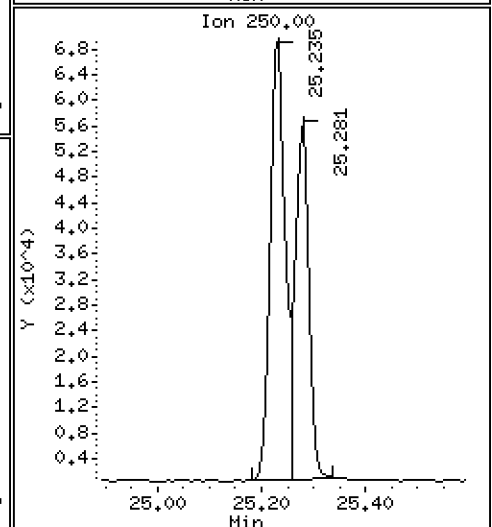
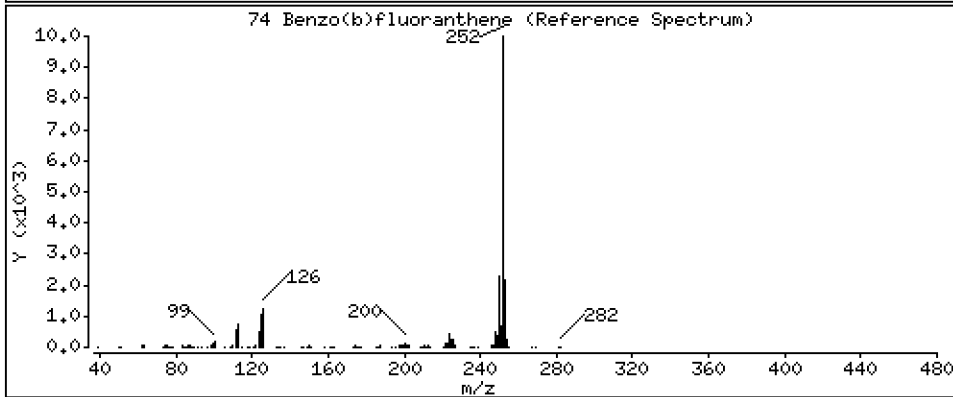
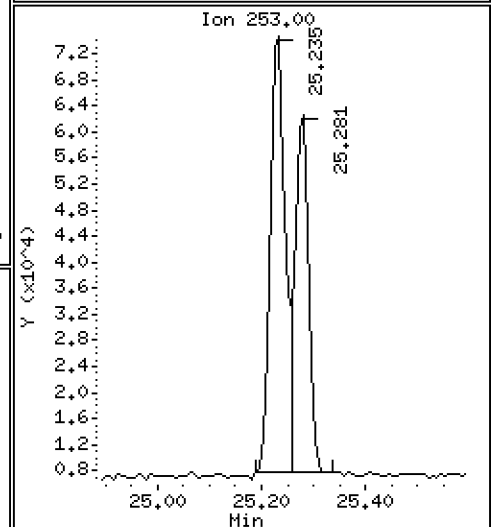
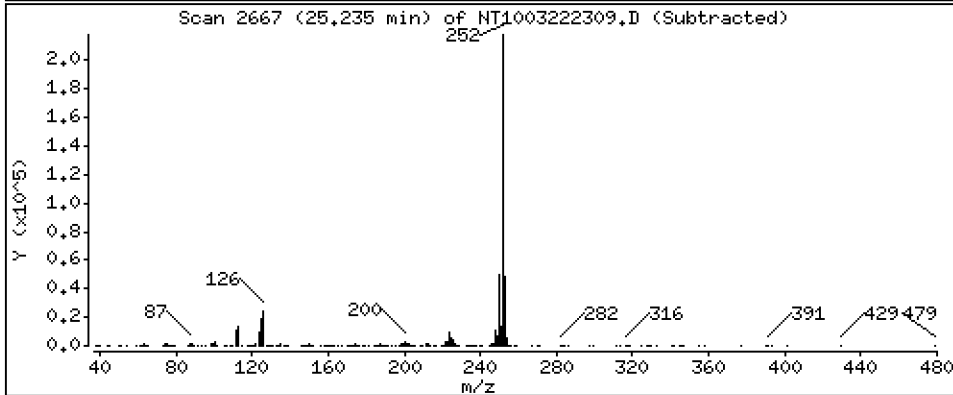
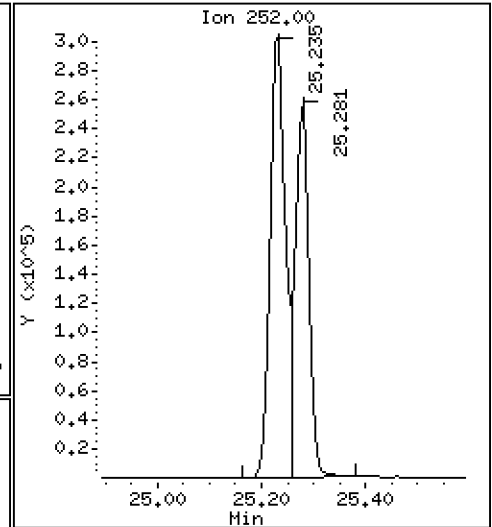
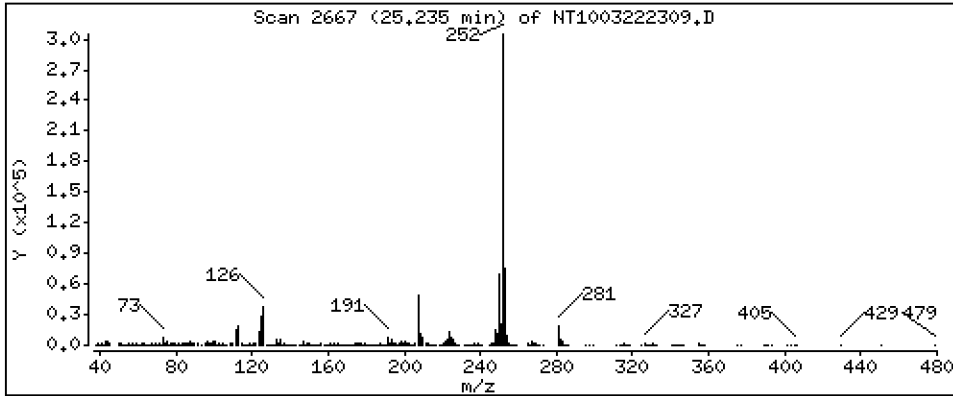
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 3,181 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

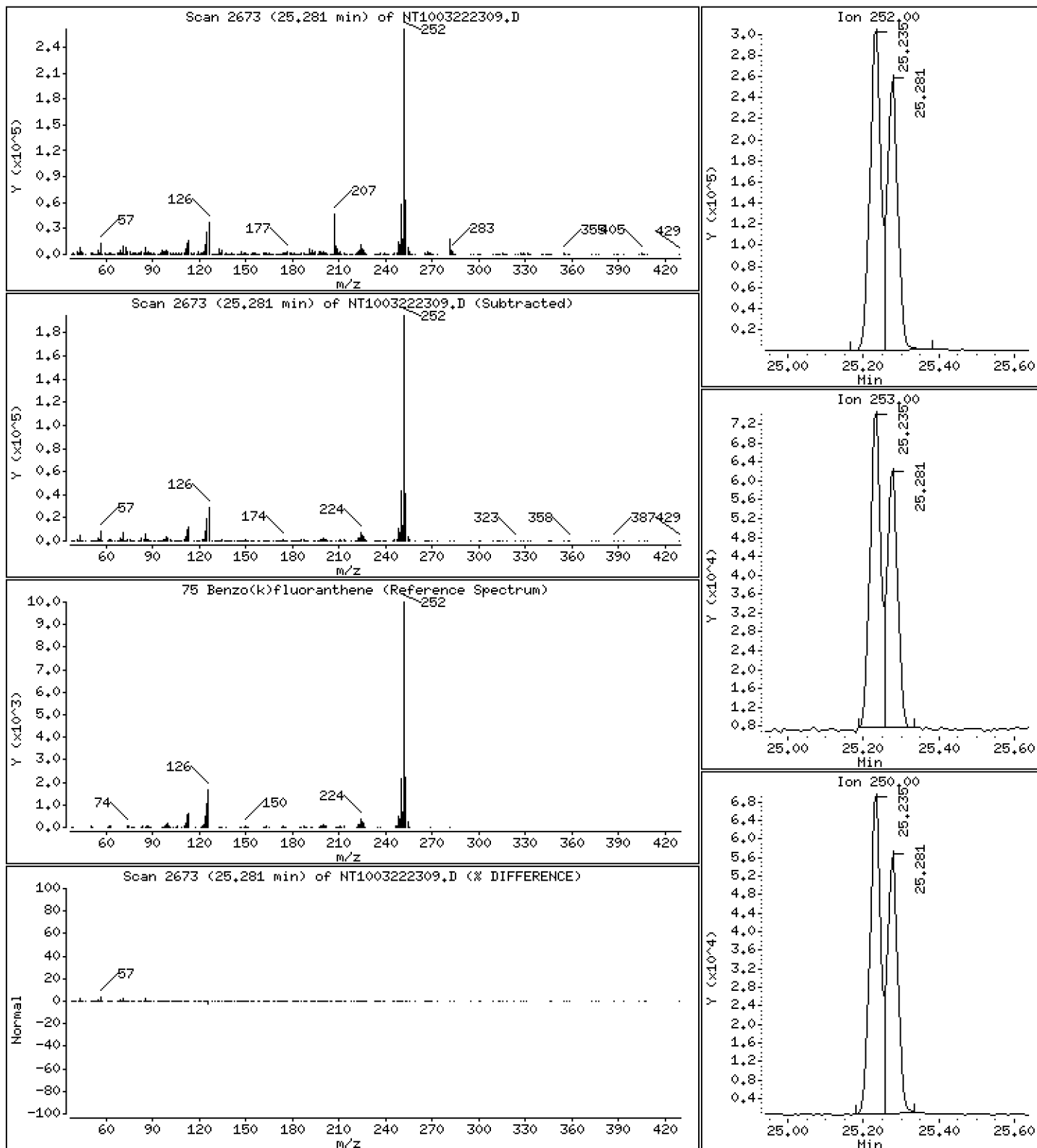
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 2,475 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

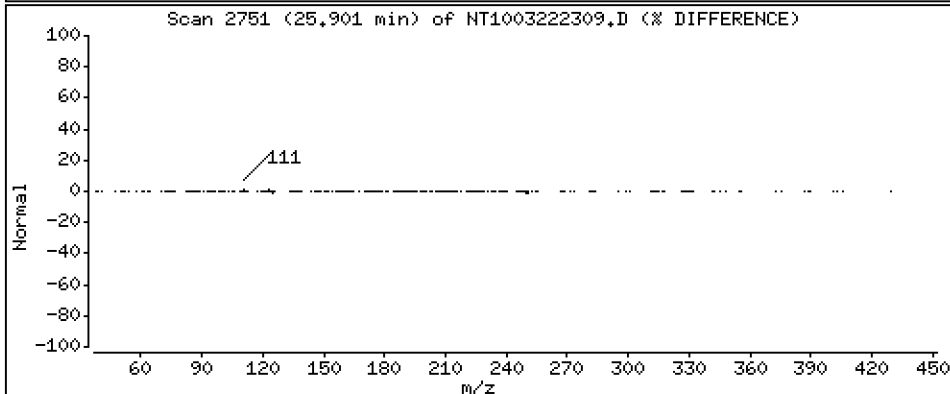
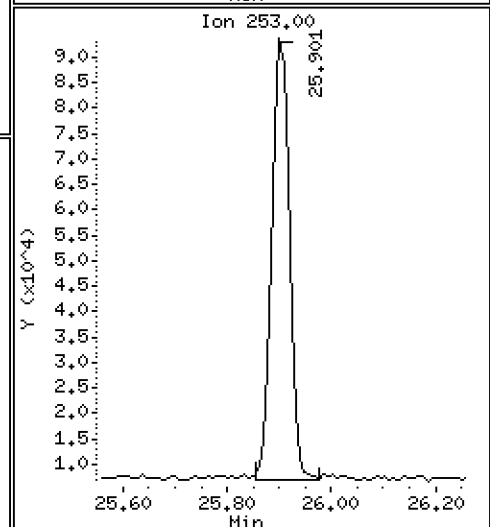
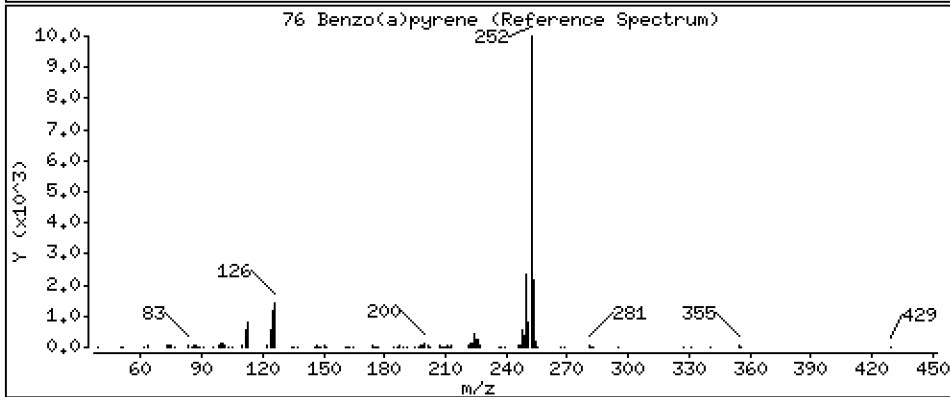
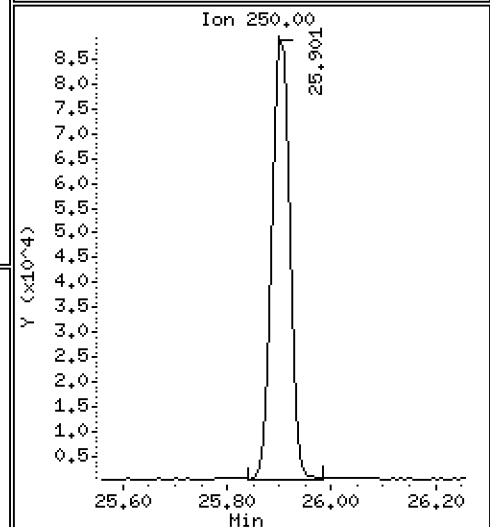
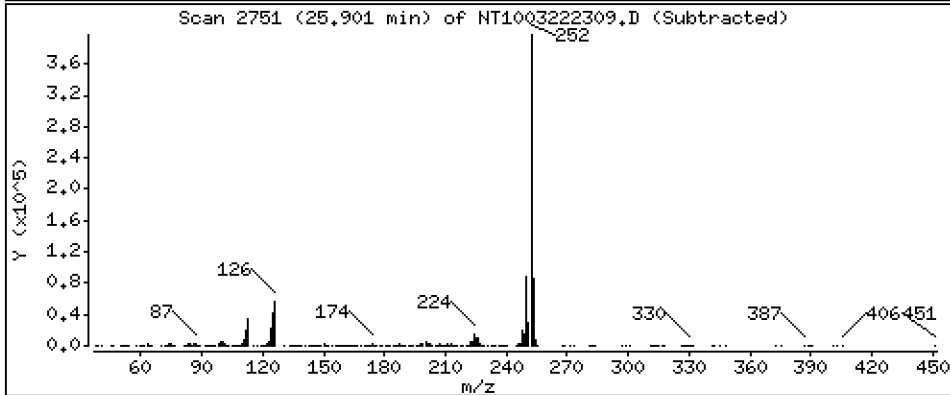
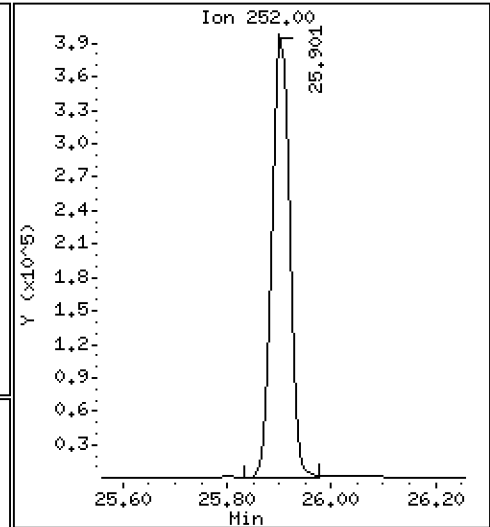
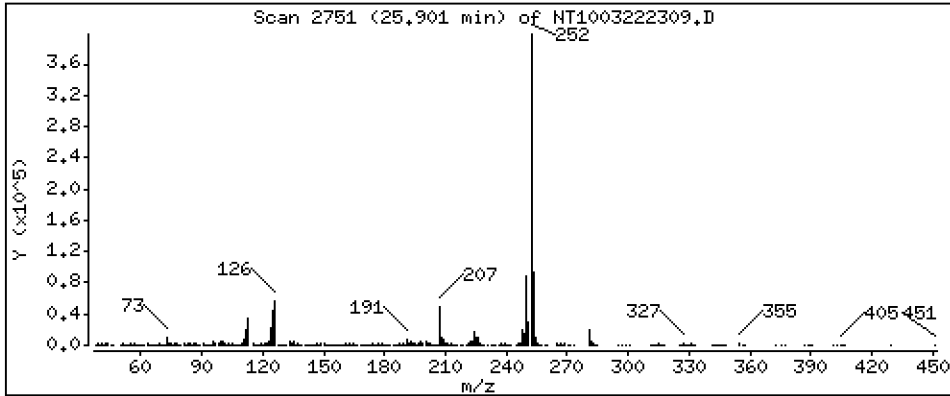
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 5,035 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

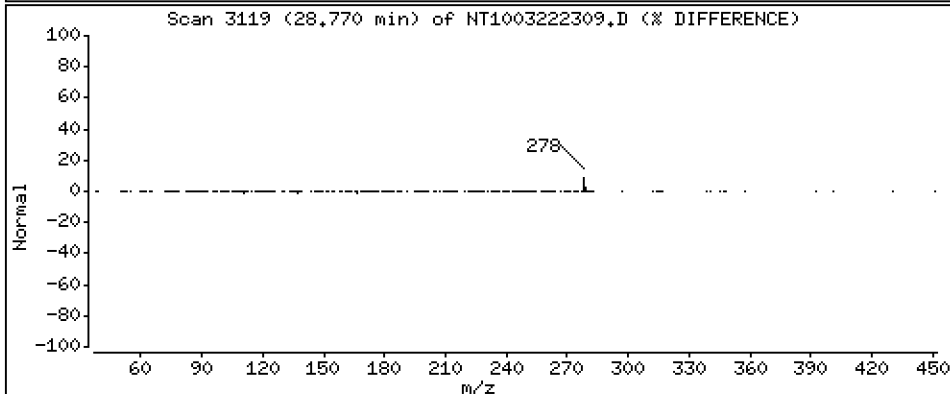
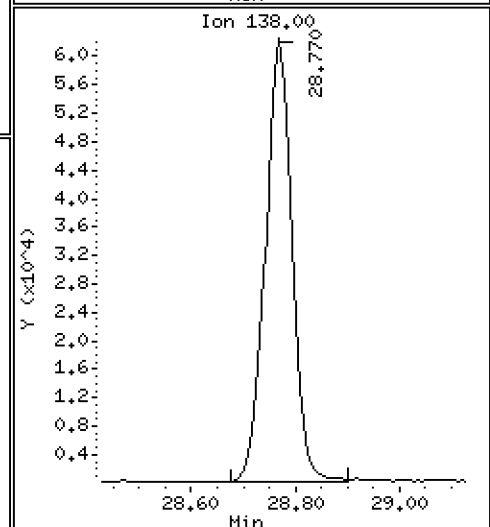
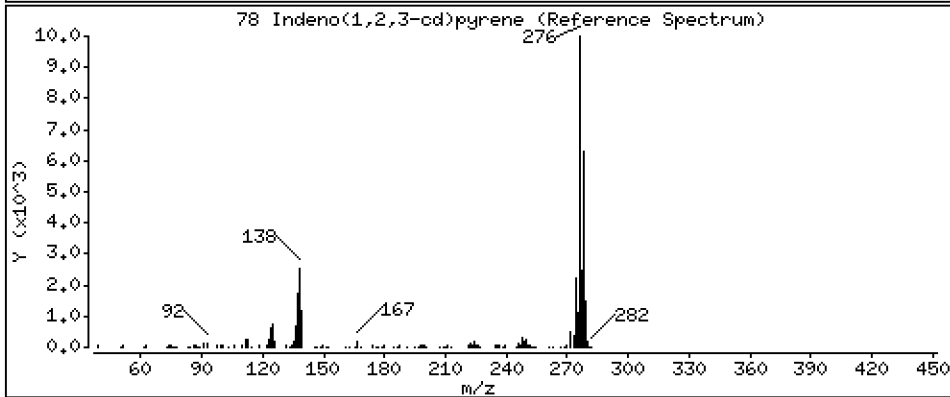
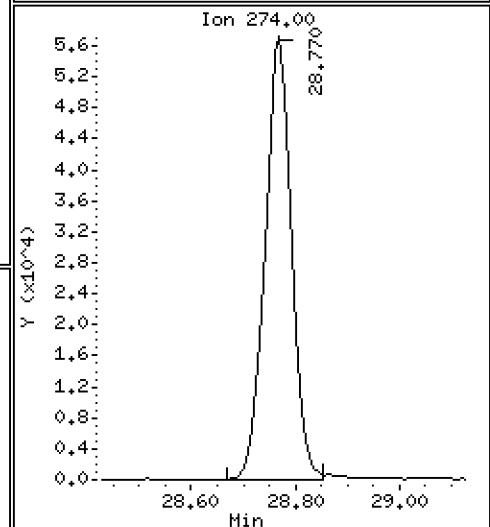
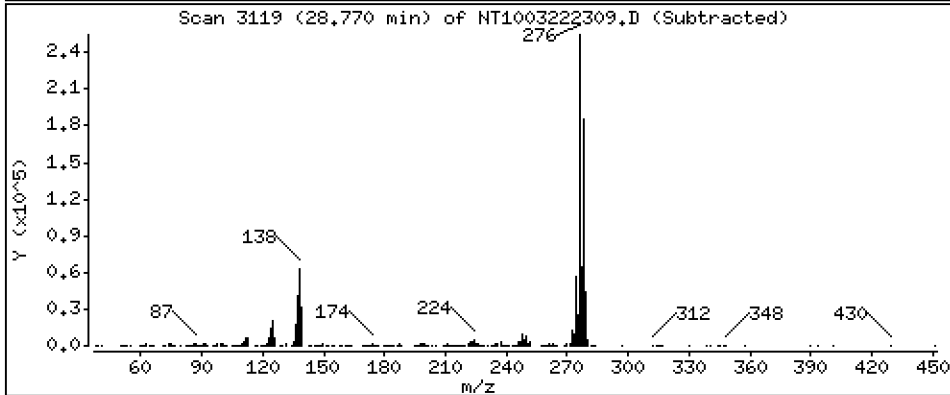
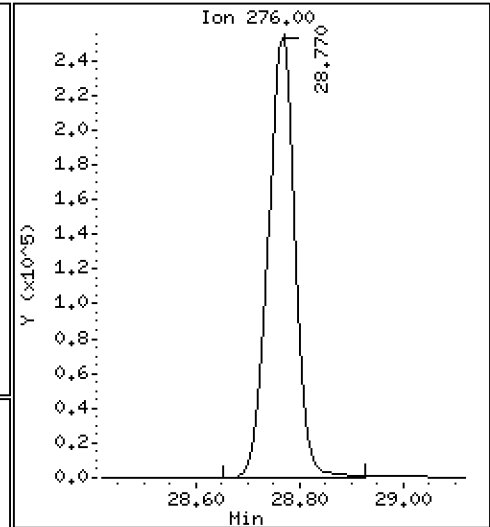
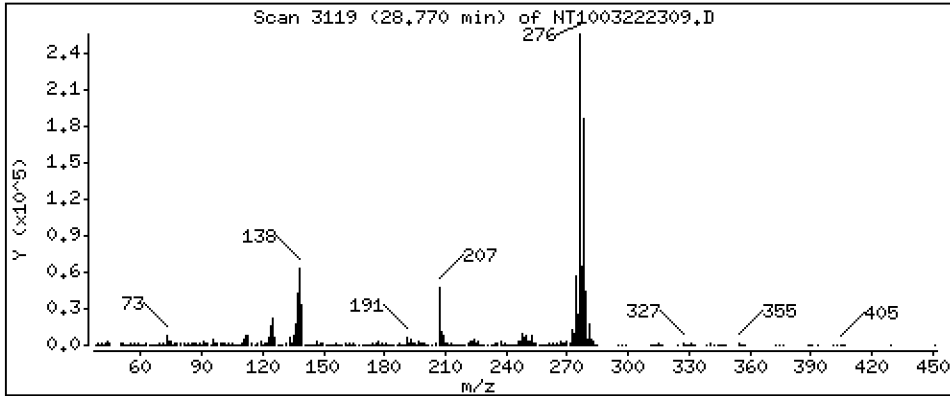
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 3,946 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

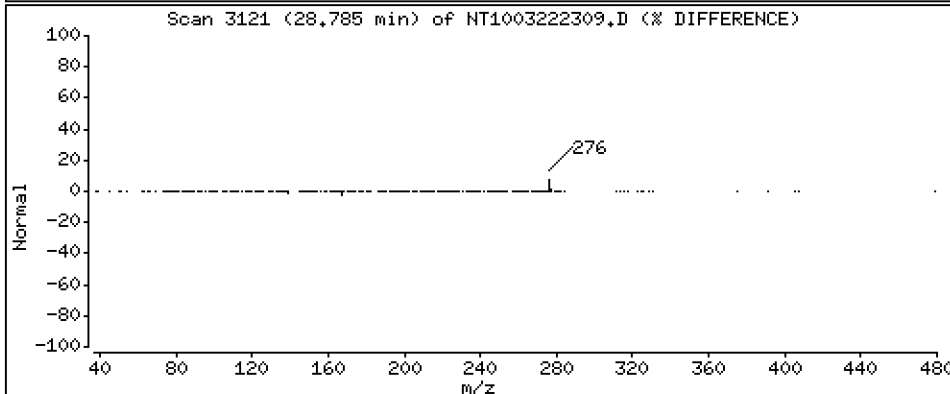
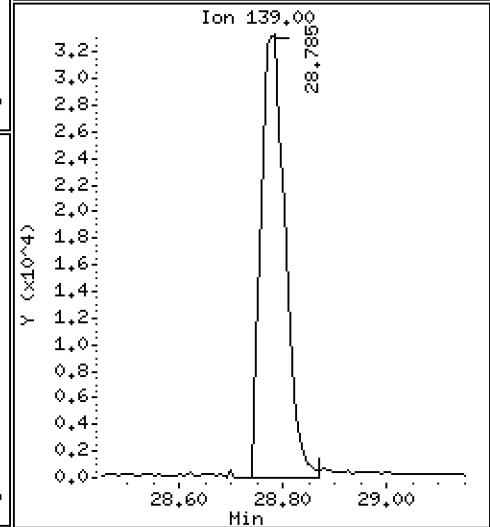
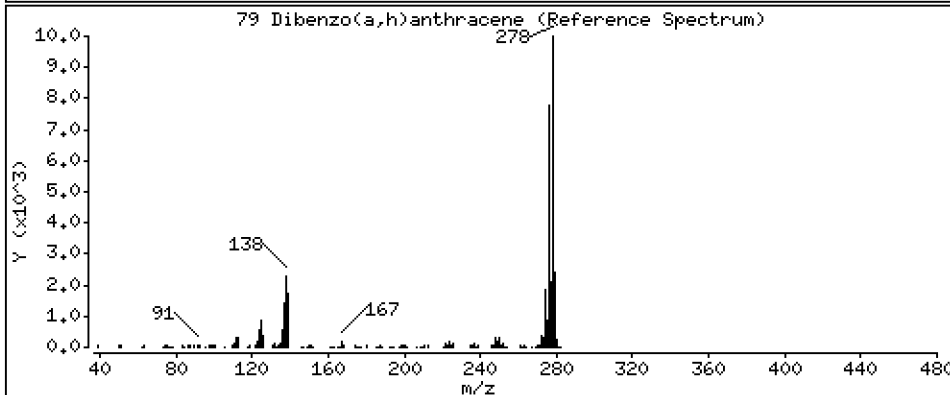
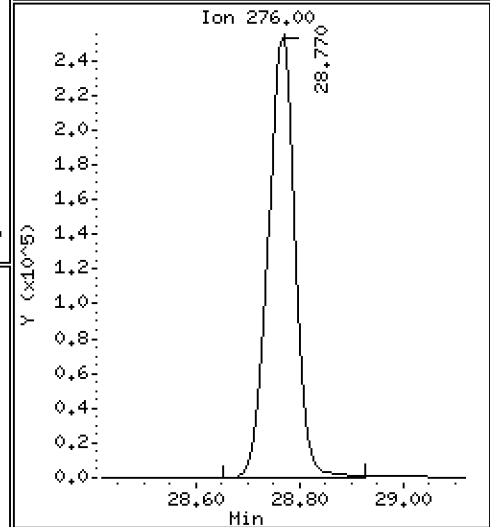
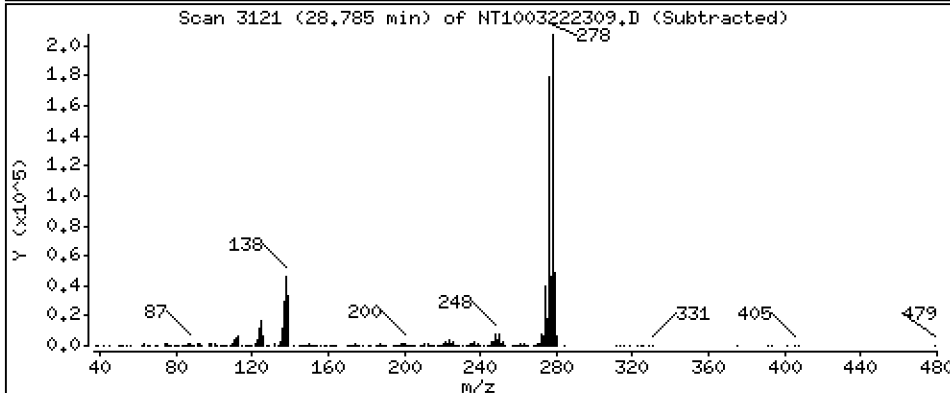
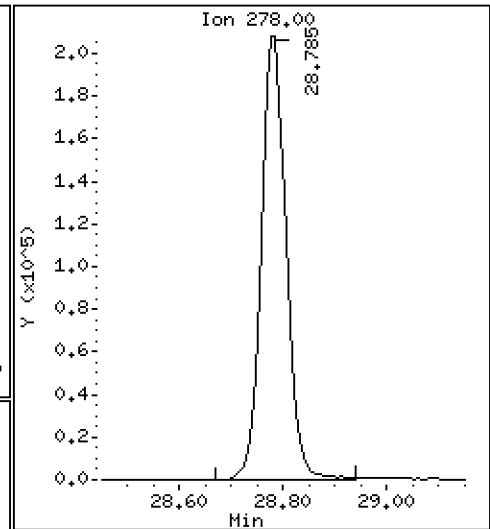
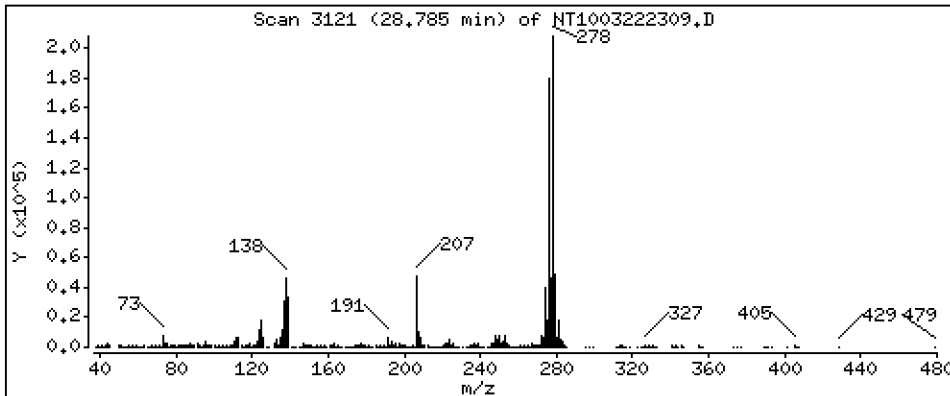
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 3,627 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

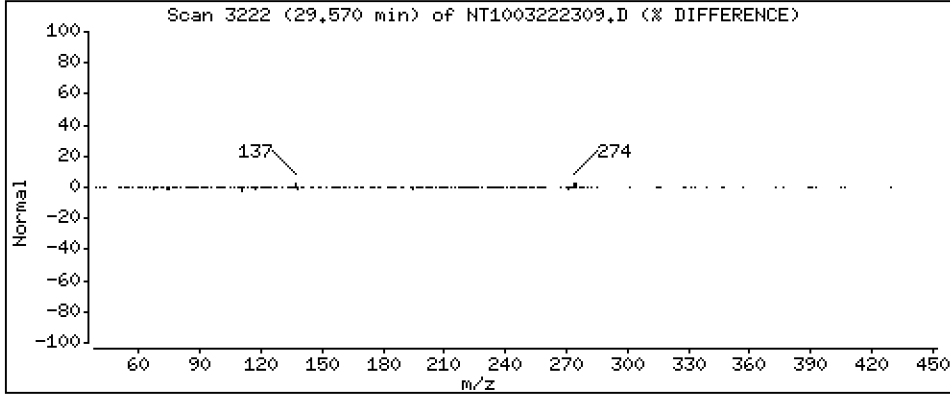
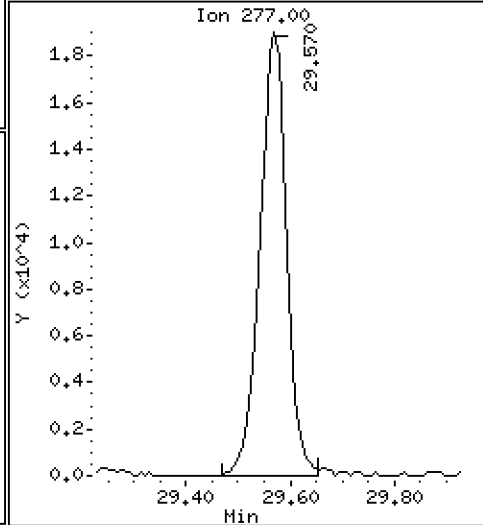
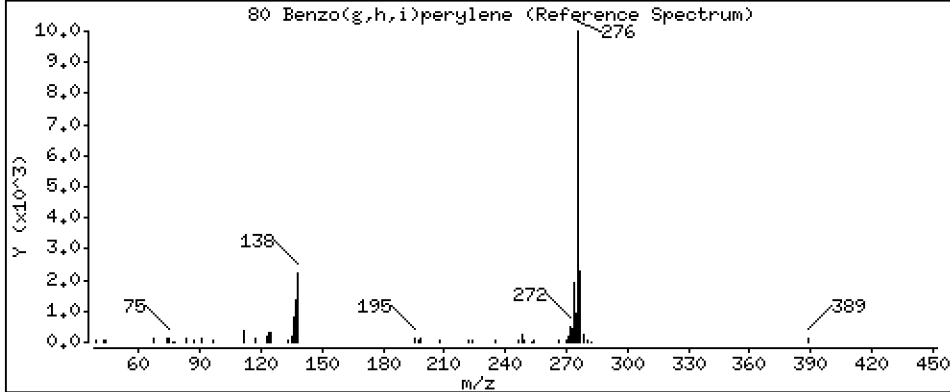
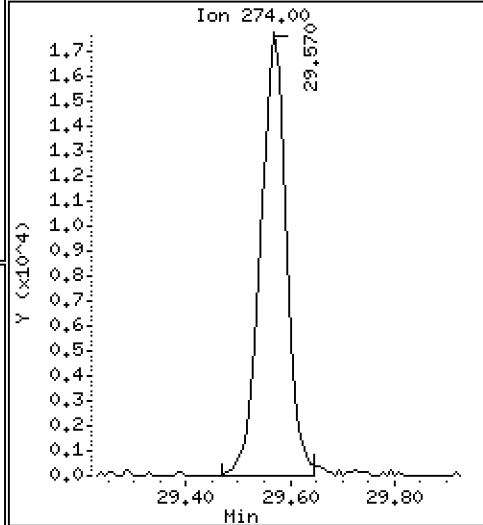
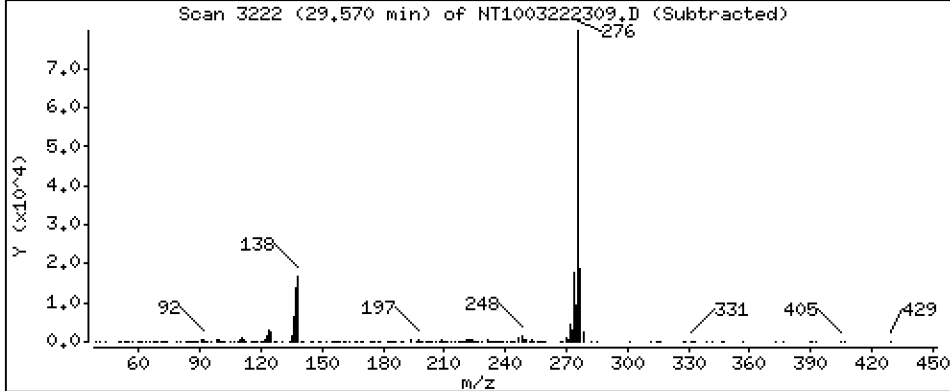
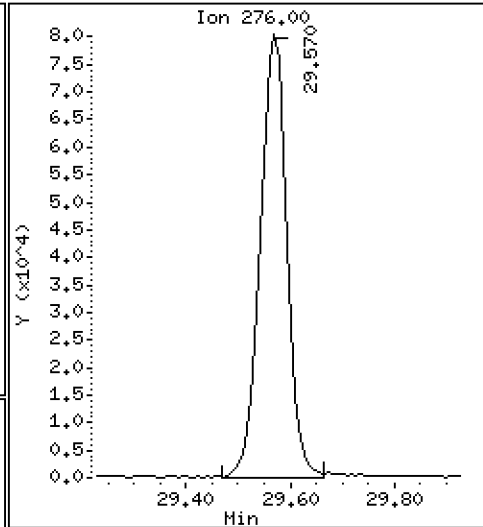
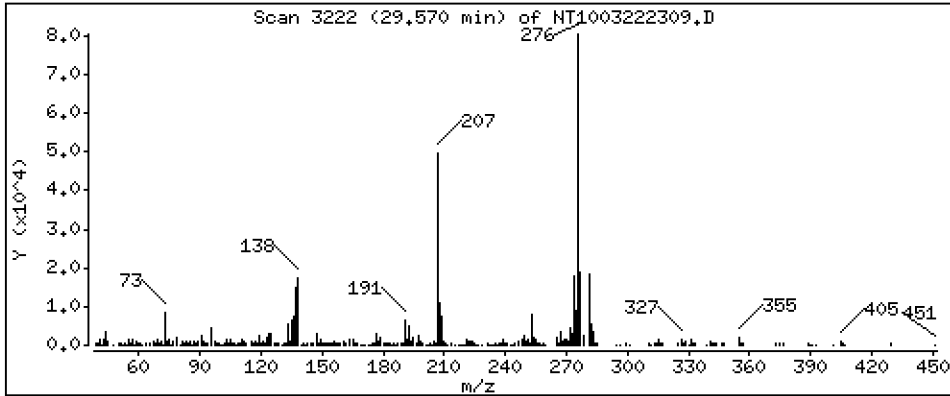
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 1,420 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

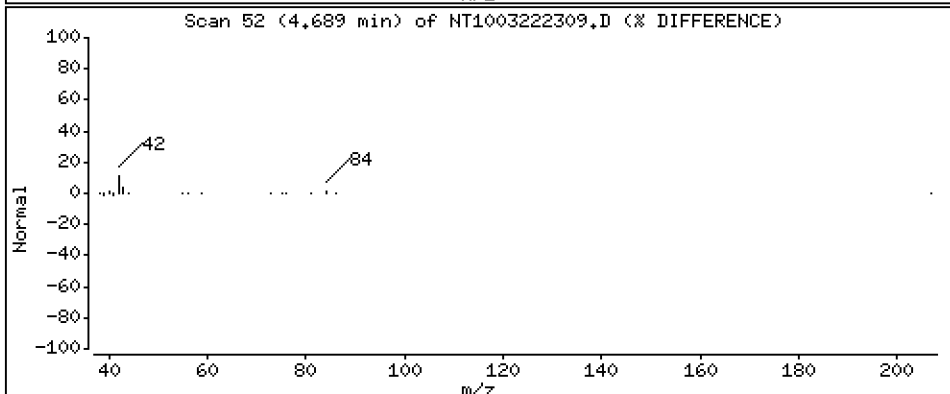
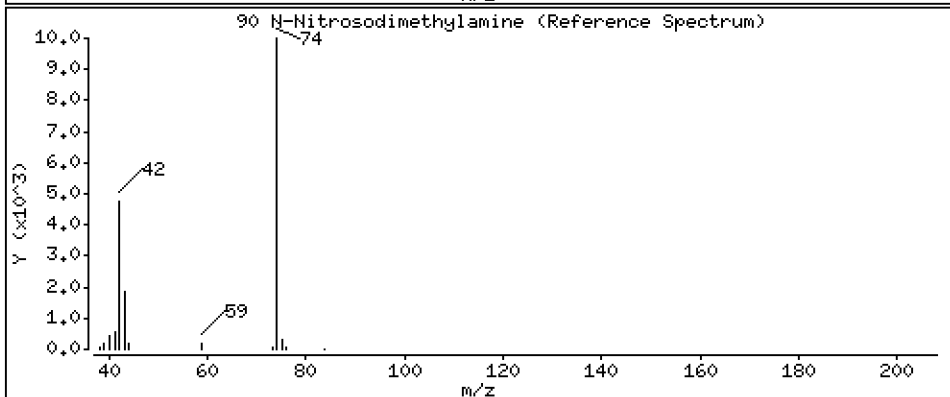
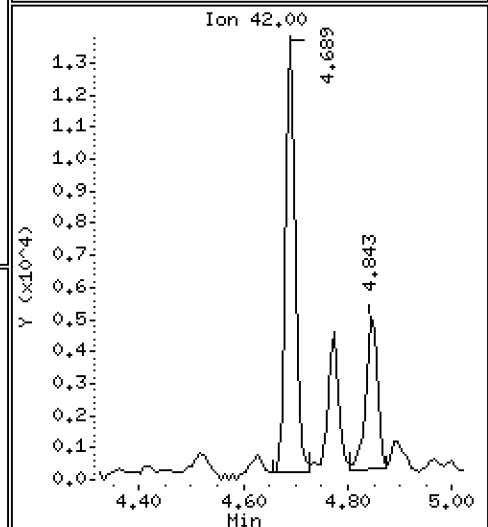
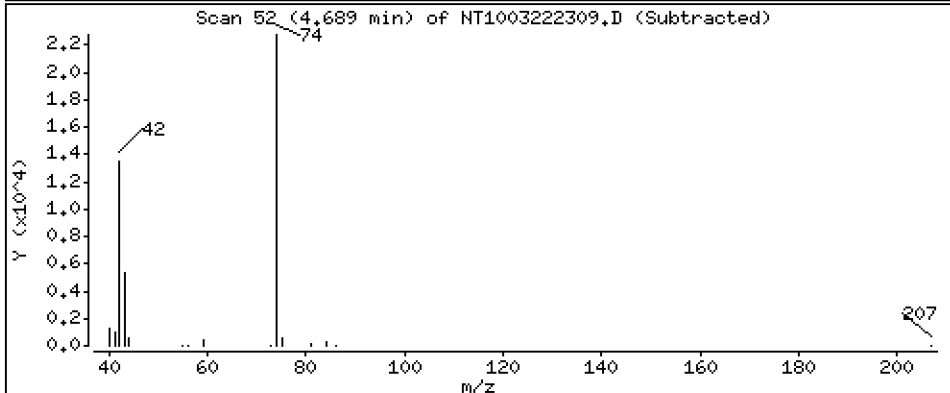
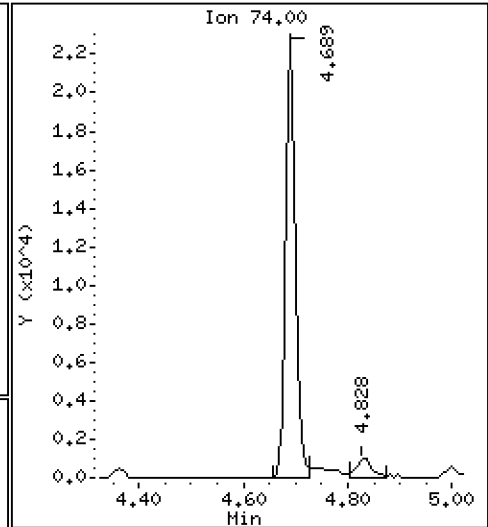
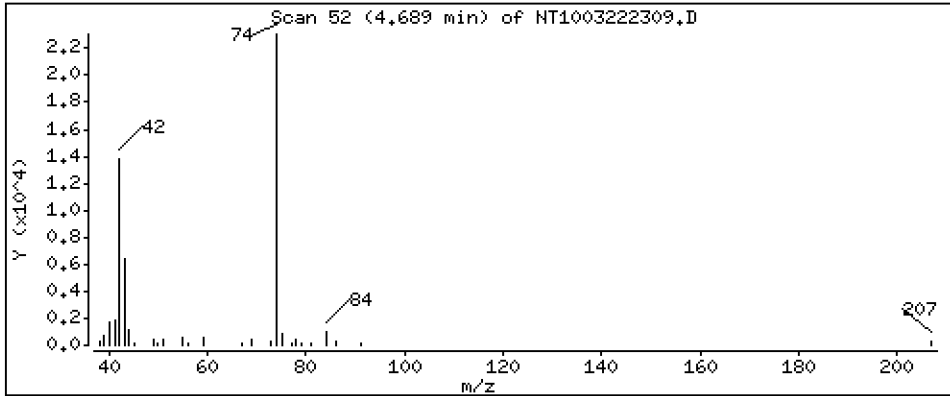
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

90 N-Nitrosodimethylamine

Concentration: 0,9093 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

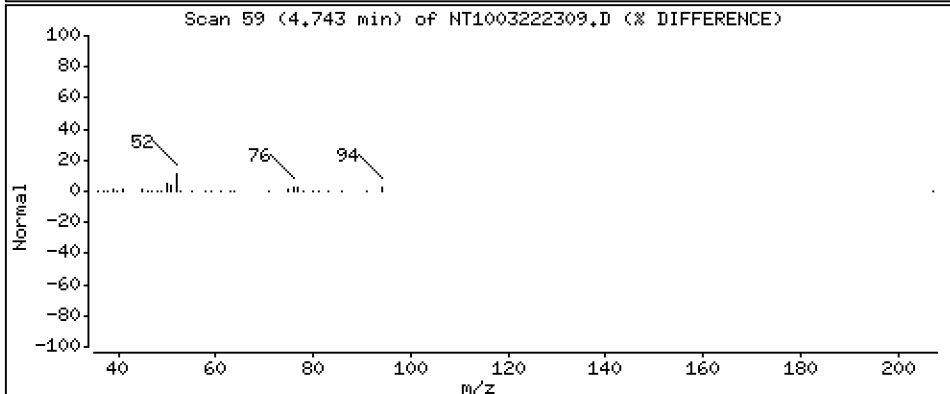
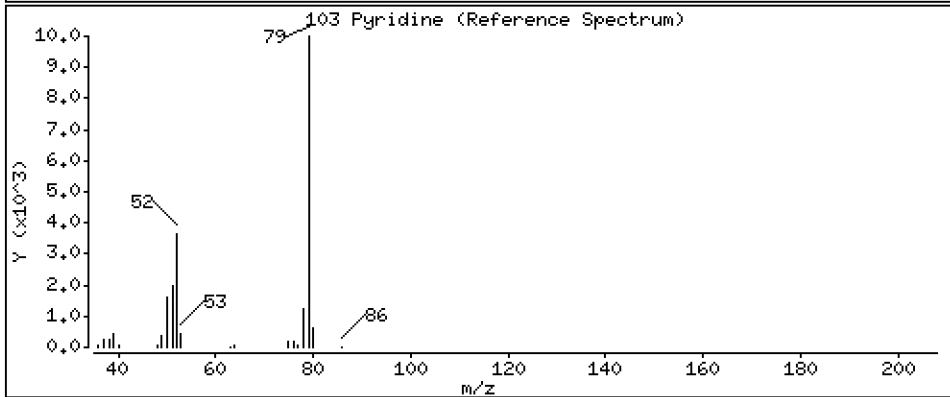
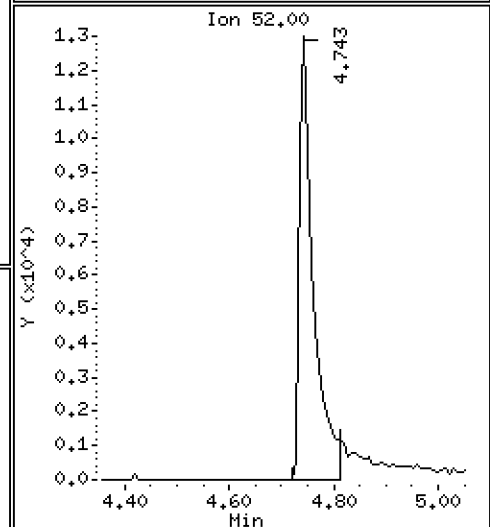
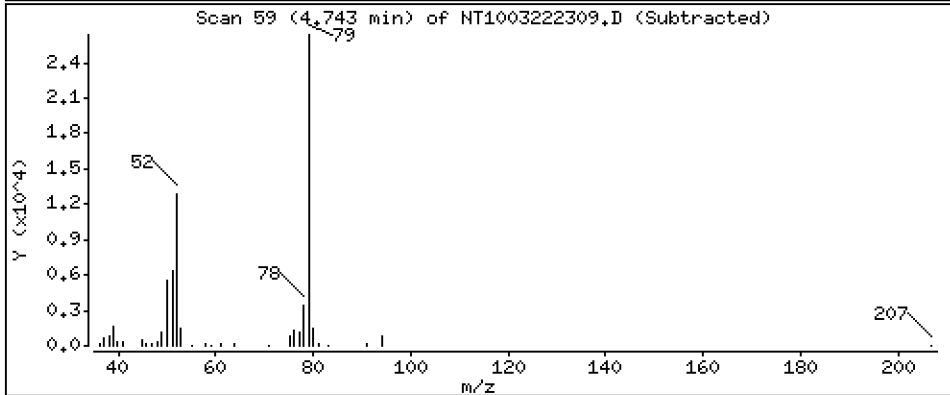
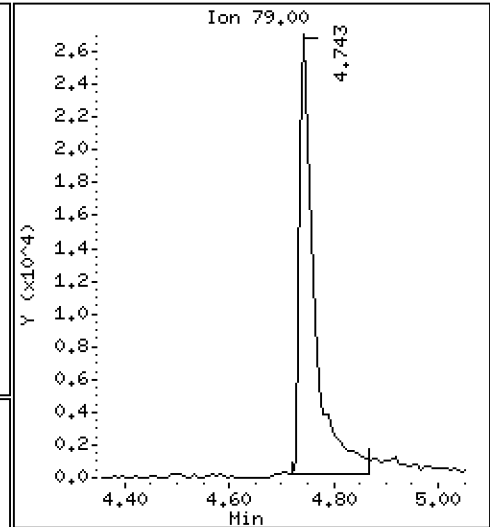
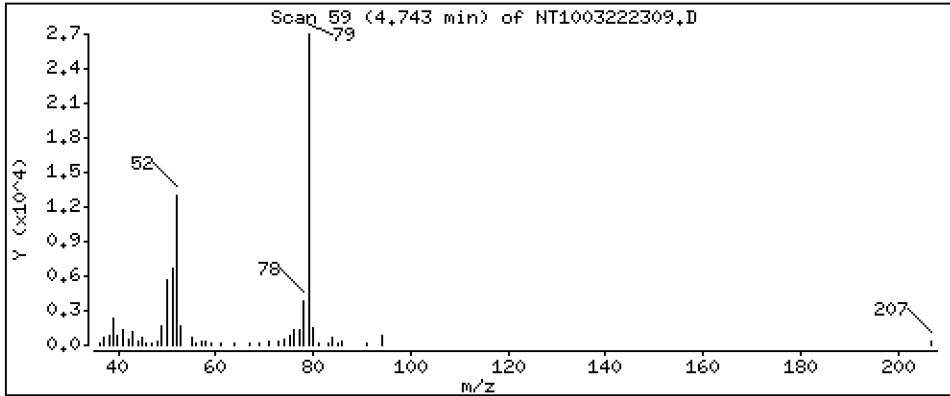
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

103 Pyridine

Concentration: 1,076 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

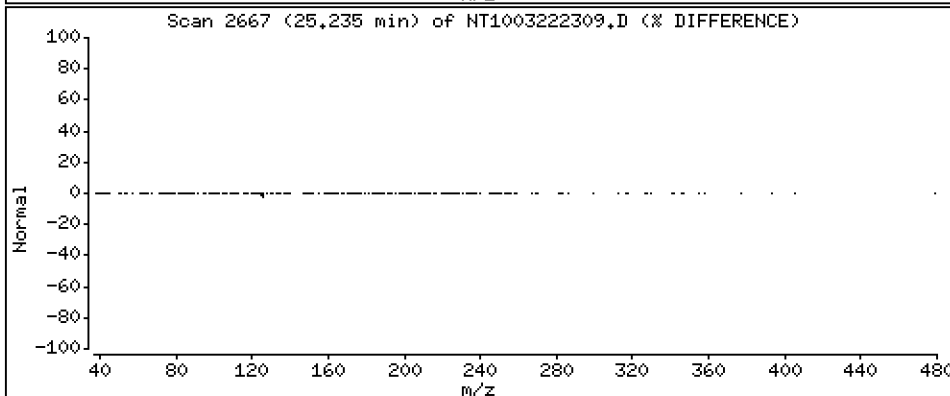
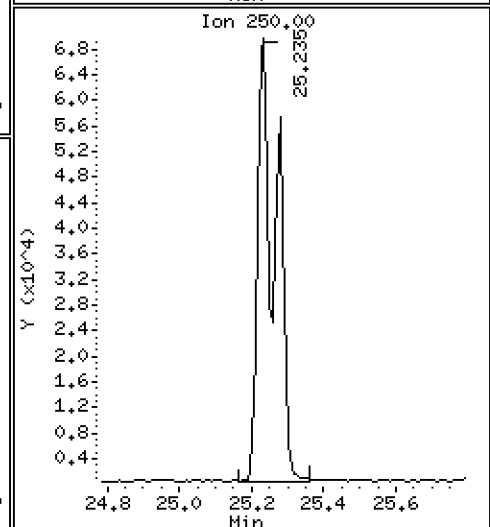
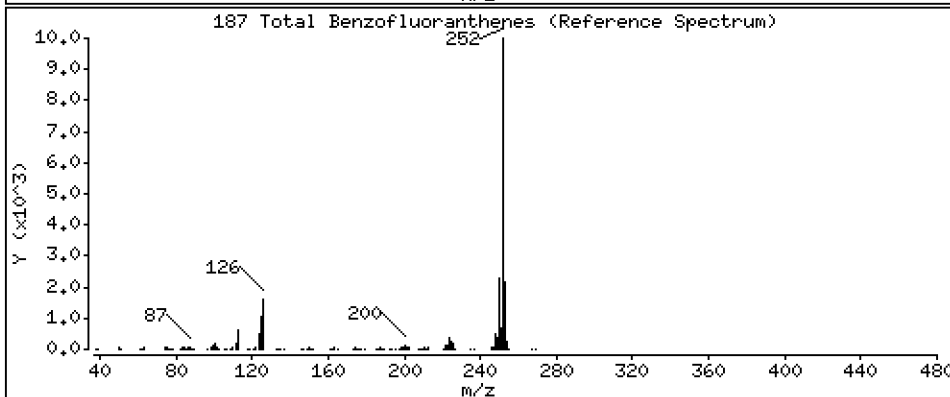
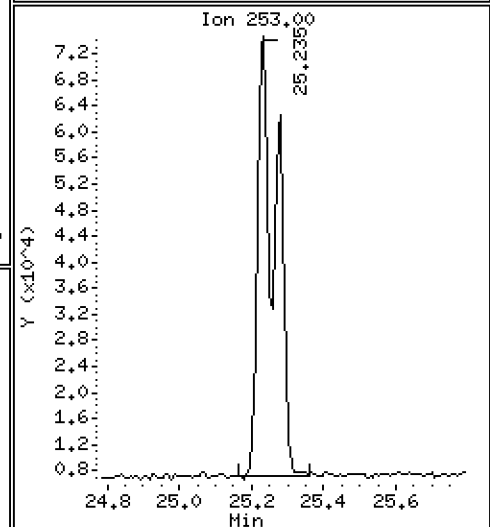
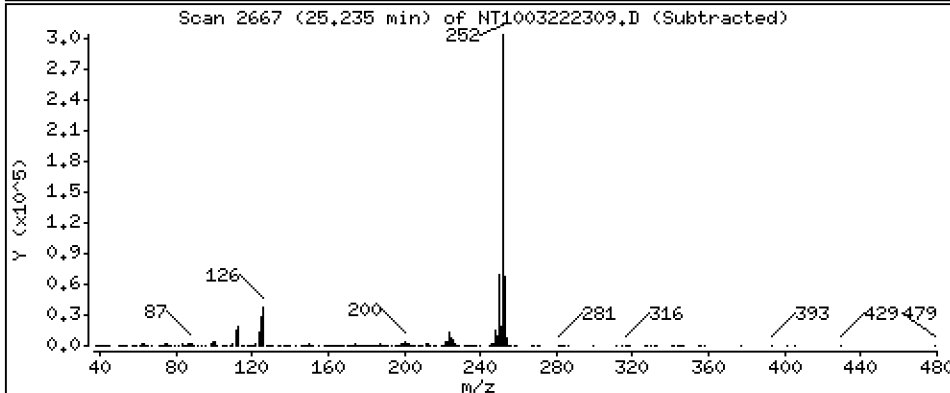
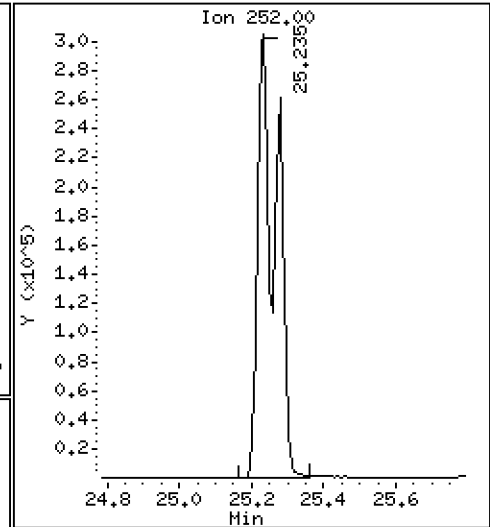
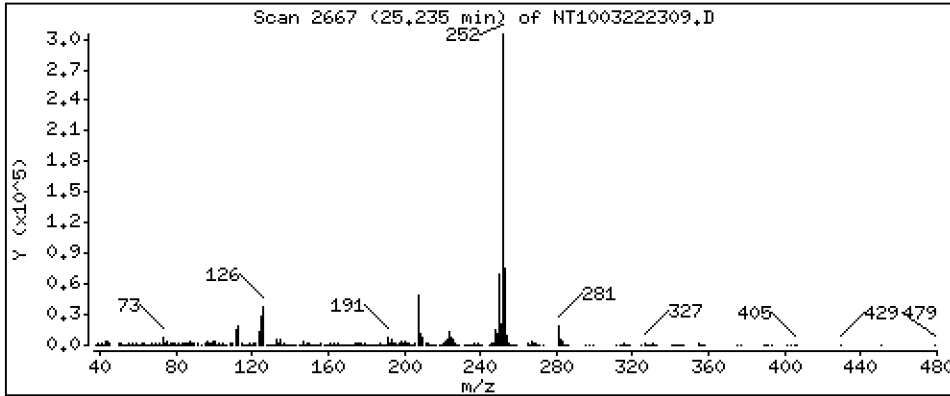
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 5,643 ug/mL



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

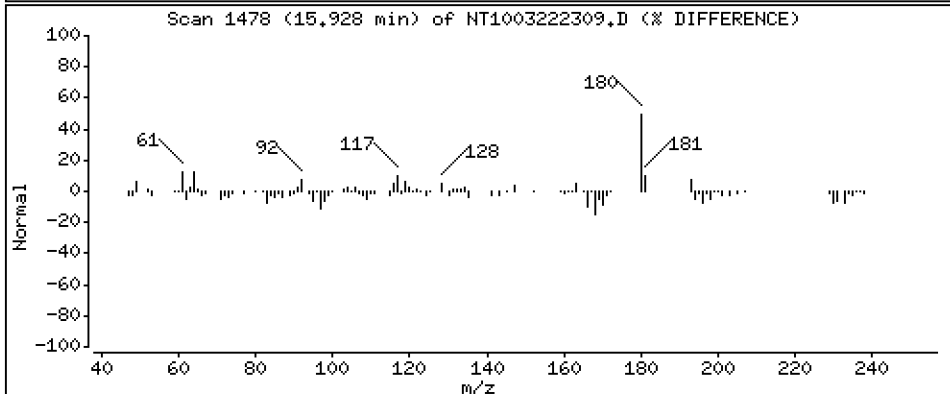
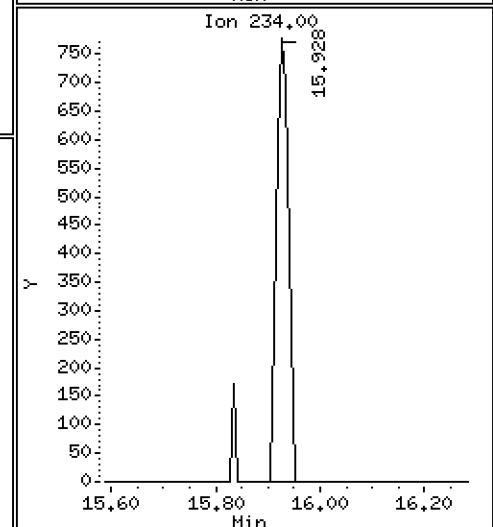
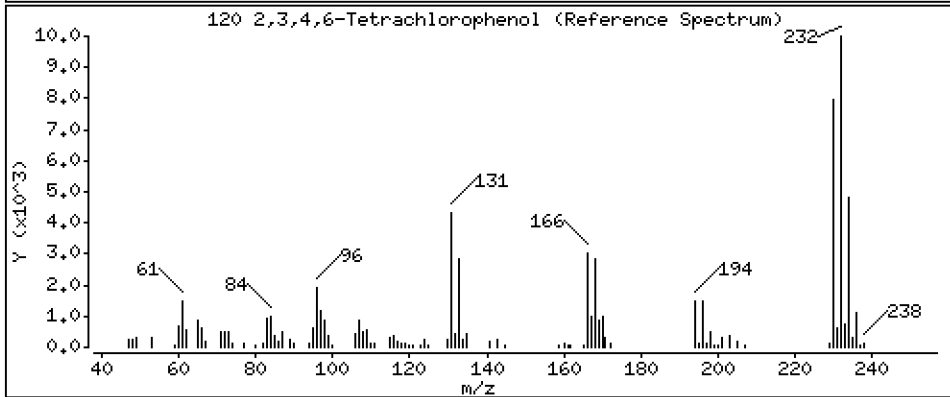
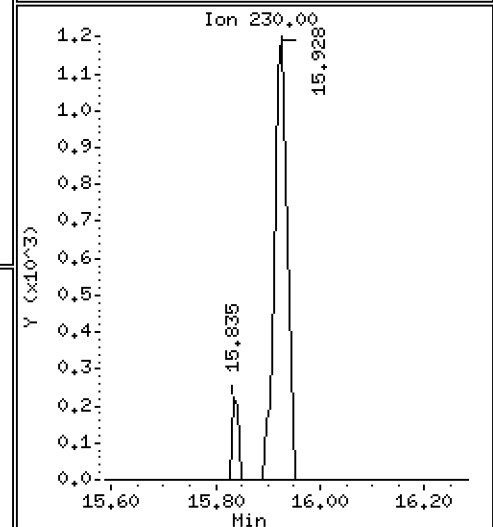
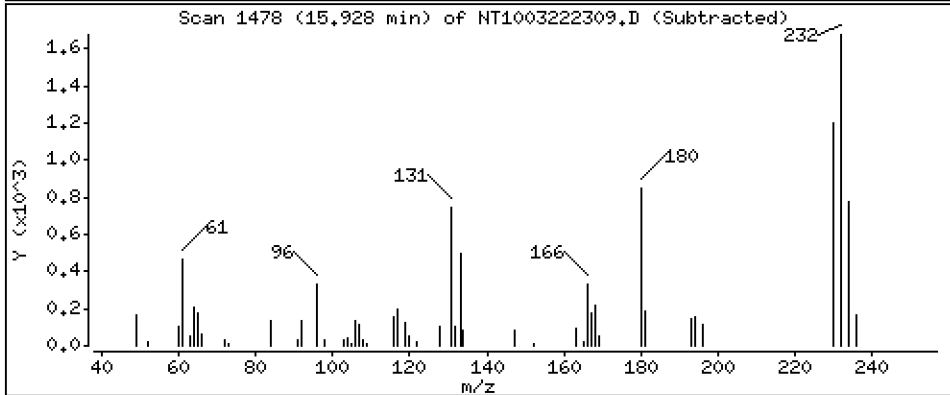
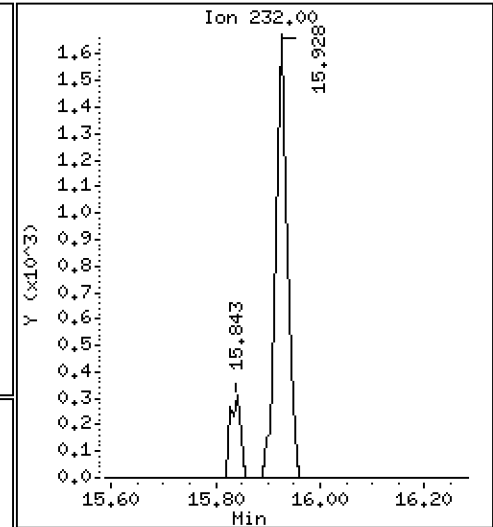
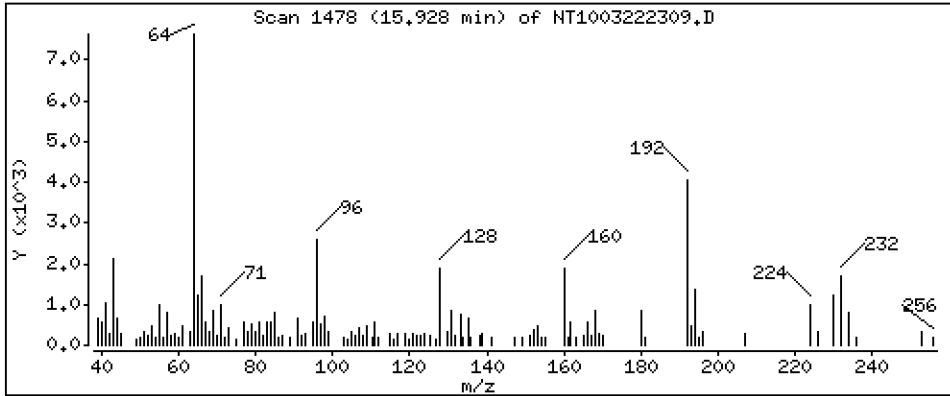
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

120 2,3,4,6-Tetrachlorophenol

Concentration: 0,07286 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230322.b\NT1003222309.D
 Lab Smp Id: BLC0442-SRM1
 Inj Date : 22-MAR-2023 22:10
 Operator : VTS
 Smp Info : BLC0442-SRM1
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt10.i\20230322.b\ABN.m
 Meth Date : 25-Mar-2023 07:55 van
 Cal Date : 16-MAR-2023 00:22
 Als bottle: 9
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: VANS-201906

Inst ID: nt10.i

Quant Type: ISTD
 Cal File: NT10031508.D

Compound Sublist: ICAL.sub

| Compounds | QUANT | SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|---------------------------------|-------|-----|------------------------|--------|---------|----------|----------------------|------------------|
| | | | | | | | ON-COLUMN (ug/mL) | FINAL (ug/mL) |
| \$ 1 2-Fluorophenol | 112 | | 6.867 | 6.851 | (0.756) | 309830 | 5.82087 | 5.821 |
| \$ 2 Phenol-d5 | 99 | | 8.450 | 8.450 | (0.930) | 421399 | 6.03494 | 6.035 |
| 3 Phenol | 94 | | 8.474 | 8.473 | (0.933) | 184067 | 2.53673 | 2.537 |
| \$ 5 2-Chlorophenol-d4 | 132 | | 8.721 | 8.721 | (0.960) | 380457 | 6.38063 | 6.381 |
| 4 Bis(2-Chloroethyl)ether | 93 | | Compound Not Detected. | | | | | |
| 6 2-Chlorophenol | 128 | | 8.752 | 8.752 | (0.963) | 87138 | 1.40315 | 1.403 |
| 7 1,3-Dichlorobenzene | 146 | | 9.015 | 9.022 | (0.992) | 68851 | 1.04869 | 1.049 |
| * 8 1,4-Dichlorobenzene-d4 | 152 | | 9.084 | 9.084 | (1.000) | 176010 | 4.00000 | |
| 9 1,4-Dichlorobenzene | 146 | | Compound Not Detected. | | | | | |
| \$ 10 1,2-Dichlorobenzene-d4 | 152 | | 9.441 | 9.449 | (1.039) | 167201 | 3.90462 | 3.905 |
| 12 1,2-Dichlorobenzene | 146 | | Compound Not Detected. | | | | | |
| 11 Benzyl alcohol | 108 | | Compound Not Detected. | | | | | |
| 14 2,2'-oxybis(1-Chloropropane) | 121 | | 9.659 | 9.659 | (1.063) | 53617 | 2.92503 | 2.925 (H) |
| 13 2-Methylphenol | 108 | | 9.581 | 9.589 | (1.055) | 300306 | 5.67745 | 5.677 |
| 17 Hexachloroethane | 117 | | Compound Not Detected. | | | | | |
| 16 N-Nitroso-di-n-propylamine | 70 | | Compound Not Detected. | | | | | |
| 15 4-Methylphenol | 108 | | 9.853 | 9.853 | (1.085) | 390523 | 7.00709 | 7.007 |
| \$ 18 Nitrobenzene-d5 | 82 | | 10.179 | 10.187 | (0.880) | 257029 | 4.06359 | 4.064 |
| 19 Nitrobenzene | 77 | | 10.218 | 10.218 | (0.883) | 166965 | 2.68981 | 2.690 |
| 20 Isophorone | 82 | | 10.668 | 10.668 | (0.922) | 156619 | 1.97233 | 1.972 |
| 21 2-Nitrophenol | 139 | | 10.841 | 10.850 | (0.937) | 207602 | 6.82749 | 6.827 |
| 22 2,4-Dimethylphenol | 107 | | 10.901 | 10.901 | (0.942) | 331643 | 5.81682 | 5.817 |
| 23 Bis(2-Chloroethoxy)methane | 93 | | Compound Not Detected. | | | | | |
| 24 Benzoic acid | 105 | | 11.011 | 11.104 | (0.952) | 33995 | 1.07153 | 1.072 |
| 25 2,4-Dichlorophenol | 162 | | 11.300 | 11.300 | (0.976) | 383618 | 8.40802 | 8.408 |
| 26 1,2,4-Trichlorobenzene | 180 | | 11.487 | 11.487 | (0.993) | 72303 | 1.35002 | 1.350 |
| * 27 Naphthalene-d8 | 136 | | 11.572 | 11.572 | (1.000) | 626650 | 4.00000 | |
| 28 Naphthalene | 128 | | 11.611 | 11.611 | (1.003) | 670348 | 4.03803 | 4.038 |
| 29 4-Chloroaniline | 127 | | Compound Not Detected. | | | | | |
| 30 Hexachlorobutadiene | 225 | | 11.974 | 11.974 | (1.035) | 63086 | 2.01031 | 2.010 |
| 31 4-Chloro-3-methylphenol | 107 | | 12.709 | 12.709 | (1.098) | 108099 | 2.18861 | 2.189 |
| 32 2-Methylnaphthalene | 142 | | Compound Not Detected. | | | | | |
| 33 Hexachlorocyclopentadiene | 237 | | Compound Not Detected. | | | | | |

| Compounds | QUANT | SIG | | | | | | CONCENTRATIONS | |
|-----------------------------------|-------|-----|------------------------|--------|---------|---------|----------|----------------------|------------------|
| | | | MASS | RT | EXP RT | REL RT | RESPONSE | ON-COLUMN (ug/mL) | FINAL (ug/mL) |
| 34 2,4,6-Trichlorophenol | 196 | | 13.630 | 13.637 | (0.897) | 85474 | 2.48707 | 2.487 | |
| 35 2,4,5-Trichlorophenol | 196 | | 13.707 | 13.707 | (0.902) | 146031 | 3.82412 | 3.824 | |
| § 36 2-Fluorobiphenyl | 172 | | 13.792 | 13.800 | (0.908) | 591330 | 4.29908 | 4.299 | |
| 37 2-Chloronaphthalene | 162 | | 14.001 | 14.009 | (0.922) | 240428 | 2.15875 | 2.159 | |
| 38 2-Nitroaniline | 65 | | Compound Not Detected. | | | | | | |
| 39 Dimethylphthalate | 163 | | 14.698 | 14.706 | (0.967) | 562303 | 4.97793 | 4.978 | |
| 40 Acenaphthylene | 152 | | 14.876 | 14.884 | (0.979) | 310538 | 1.78936 | 1.789 | |
| 41 2,6-Dinitrotoluene | 165 | | Compound Not Detected. | | | | | | |
| * 42 Acenaphthene-d10 | 164 | | 15.193 | 15.193 | (1.000) | 347719 | 4.00000 | | |
| 43 3-Nitroaniline | 138 | | Compound Not Detected. | | | | | | |
| 44 Acenaphthene | 153 | | 15.263 | 15.263 | (1.005) | 592933 | 5.53035 | 5.530 | |
| 45 2,4-Dinitrophenol | 184 | | 15.332 | 15.340 | (1.009) | 88310 | 5.92828 | 5.928 | |
| 46 Dibenzofuran | 168 | | 15.587 | 15.595 | (1.026) | 1003538 | 6.34733 | 6.347 | |
| 47 4-Nitrophenol | 109 | | 15.456 | 15.456 | (1.017) | 121339 | 7.03506 | 7.035 | |
| 48 2,4-Dinitrotoluene | 165 | | 15.649 | 15.657 | (1.030) | 145044 | 3.95416 | 3.954 | |
| 50 Diethylphthalate | 149 | | 16.160 | 16.175 | (1.064) | 32794 | 0.29589 | 0.2959 | |
| 49 Fluorene | 166 | | 16.306 | 16.306 | (1.073) | 481389 | 3.87015 | 3.870 | |
| 51 4-Chlorophenyl-phenylether | 204 | | 16.298 | 16.298 | (1.073) | 137812 | 2.32992 | 2.330 | |
| 52 4-Nitroaniline | 138 | | Compound Not Detected. | | | | | | |
| 53 4,6-Dinitro-2-methylphenol | 198 | | 16.491 | 16.499 | (0.904) | 169438 | 8.66485 | 8.665 | |
| 54 N-Nitrosodiphenylamine | 169 | | 16.545 | 16.553 | (0.907) | 304483 | 3.55183 | 3.552 | |
| § 55 2,4,6-Tribromophenol | 330 | | 16.838 | 16.846 | (1.108) | 145681 | 9.01108 | 9.011 | |
| 56 4-Bromophenyl-phenylether | 248 | | 17.309 | 17.308 | (0.949) | 286019 | 7.97539 | 7.975 | |
| 57 Hexachlorobenzene | 284 | | Compound Not Detected. | | | | | | |
| 58 Pentachlorophenol | 266 | | 17.982 | 17.990 | (0.986) | 99974 | 4.45751 | 4.458 | |
| * 59 Phenanthrene-d10 | 188 | | 18.245 | 18.253 | (1.000) | 641196 | 4.00000 | | |
| 60 Phenanthrene | 178 | | 18.299 | 18.299 | (1.003) | 864684 | 4.94557 | 4.946 | |
| 61 Anthracene | 178 | | 18.384 | 18.392 | (1.008) | 403849 | 2.40792 | 2.408 | |
| 62 Carbazole | 167 | | 18.725 | 18.725 | (1.026) | 914359 | 6.08397 | 6.084 | |
| 63 Di-n-butylphthalate | 149 | | 19.537 | 19.545 | (1.071) | 373690 | 1.85275 | 1.853 | |
| 64 Fluoranthene | 202 | | 20.698 | 20.705 | (0.887) | 525370 | 2.41983 | 2.420 | |
| 65 Pyrene | 202 | | 21.131 | 21.131 | (0.905) | 669392 | 3.00558 | 3.006 | |
| § 66 Terphenyl-d14 | 244 | | 21.425 | 21.425 | (0.918) | 749230 | 4.47955 | 4.480 | |
| 67 Butylbenzylphthalate | 149 | | 22.362 | 22.369 | (0.958) | 329474 | 4.10716 | 4.107 | |
| 68 Benzo(a)anthracene | 228 | | 23.314 | 23.314 | (0.999) | 1134687 | 5.94960 | 5.950 | |
| * 69 Chrysene-d12 | 240 | | 23.345 | 23.345 | (1.000) | 540321 | 4.00000 | | |
| 70 3,3'-Dichlorobenzidine | 252 | | Compound Not Detected. | | | | | | |
| 71 Chrysene | 228 | | 23.384 | 23.392 | (1.002) | 255330 | 1.37034 | 1.370 | |
| 72 bis(2-Ethylhexyl)phthalate | 149 | | 23.407 | 23.407 | (0.959) | 380122 | 2.76085 | 2.761 | |
| * 134 Di-n-octylphthalate-d4 | 153 | | 24.414 | 24.413 | (1.000) | 939788 | 4.00000 | | |
| 73 Di-n-octylphthalate | 149 | | 24.421 | 24.429 | (1.000) | 623664 | 2.53588 | 2.536 | |
| 74 Benzo(b)fluoranthene | 252 | | 25.234 | 25.242 | (0.970) | 640114 | 3.18104 | 3.181 | |
| 75 Benzo(k)fluoranthene | 252 | | 25.281 | 25.288 | (0.971) | 505781 | 2.47531 | 2.475 | |
| 76 Benzo(a)pyrene | 252 | | 25.900 | 25.908 | (0.995) | 905818 | 5.03486 | 5.035 | |
| * 77 Perylene-d12 | 264 | | 26.024 | 26.024 | (1.000) | 620785 | 4.00000 | | |
| 78 Indeno(1,2,3-cd)pyrene | 276 | | 28.769 | 28.769 | (1.105) | 903209 | 3.94608 | 3.946 | |
| 79 Dibenzo(a,h)anthracene | 278 | | 28.785 | 28.800 | (1.106) | 689259 | 3.62715 | 3.627 | |
| 80 Benzo(g,h,i)perylene | 276 | | 29.569 | 29.577 | (1.136) | 281238 | 1.41980 | 1.420 | |
| 90 N-Nitrosodimethylamine | 74 | | 4.688 | 4.673 | (0.516) | 30879 | 0.90933 | 0.9093 | |
| 91 Aniline | 93 | | Compound Not Detected. | | | | | | |
| 93 Benzidine | 184 | | Compound Not Detected. | | | | | | |
| 103 Pyridine | 79 | | 4.742 | 4.704 | (0.522) | 56093 | 1.07556 | 1.076 | |
| 105 1-methylnaphthalene | 142 | | Compound Not Detected. | | | | | | |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77 | | Compound Not Detected. | | | | | | |

| Compounds | QUANT SIG | | | | | | | CONCENTRATIONS | |
|-------------------------------|-----------|--|--------|--------|---------|----------|----------------------|------------------|--|
| | MASS | | RT | EXP RT | REL RT | RESPONSE | ON-COLUMN (ug/mL) | FINAL (ug/mL) | |
| ===== | ===== | | ===== | ===== | ===== | ===== | ===== | ===== | |
| 187 Total Benzofluoranthenes | 252 | | 25.234 | 25.288 | (0.970) | 1096414 | 5.64317 | 5.643 | |
| 120 2,3,4,6-Tetrachlorophenol | 232 | | 15.927 | 15.935 | (1.048) | 2549 | 0.07286 | 0.07286 | |

QC Flag Legend

H - Operator selected an alternate compound hit.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 22-MAR-2023
 Lab File ID: NT1003222309.D Calibration Time: 17:42
 Lab Smp Id: BLC0442-SRM1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt10.i\20230322.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 122478 | 61239 | 244956 | 176010 | 43.71 |
| 27 Naphthalene-d8 | 459261 | 229631 | 918522 | 626650 | 36.45 |
| 42 Acenaphthene-d10 | 264106 | 132053 | 528212 | 347719 | 31.66 |
| 59 Phenanthrene-d10 | 503255 | 251628 | 1006510 | 641196 | 27.41 |
| 69 Chrysene-d12 | 437735 | 218868 | 875470 | 540321 | 23.44 |
| 134 Di-n-octylphthala | 700191 | 350096 | 1400382 | 939788 | 34.22 |
| 77 Perylene-d12 | 499049 | 249525 | 998098 | 620785 | 24.39 |

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

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

REVIEW SUMMARY FOR FILE - NT1003222309.D

Lab ID: BLC0442-SRM1
nt10.i, 20230322.b\ABN.m, 22-MAR-2023 22:10

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

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

RRT check based on Ccal File: NT1003222302.D

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

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



**MASS SPECTROMETER
INSTRUMENT PERFORMANCE CHECK
EPA 8270E**

| | | | |
|----------------|----------------------------------|-----------------|------------------------|
| Laboratory: | <u>Analytical Resources, LLC</u> | SDG: | <u>23A0180</u> |
| Client: | <u>Anchor QEA, LLC</u> | Project: | <u>AOC5 MR Phase 1</u> |
| Lab File ID: | <u>NT1423022801.D</u> | Injection Date: | <u>02/28/23</u> |
| Instrument ID: | <u>NT14</u> | Injection Time: | <u>11:26</u> |
| Sequence: | <u>SLB0374</u> | Lab Sample ID: | <u>SLB0374-TUN1</u> |

| m/z | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE | |
|----------|------------------------------------|----------------------|------|
| 68 | Less than 2% of 69 | 0 | PASS |
| 69 | Less than 100% of 198 | 36.5 | PASS |
| 70 | Less than 2% of 69 | 0 | PASS |
| 197 | Less than 2% of 198 | 0 | PASS |
| 198 | Base peak, 100% relative abundance | 100 | PASS |
| 199 | 5 - 9% of 198 | 6.68 | PASS |
| 365 | 1 - 100% of 198 | 3.19 | PASS |
| 441 | Less than 150% of 443 | 72.8 | PASS |
| 442 | 1 - 200% of 198 | 55.7 | PASS |
| 443 | 15 - 24% of 442 | 19.9 | PASS |
| 4,4'-DDD | Less than 20% of 4,4'-DDT | | |
| 4,4'-DDE | Less than 20% of 4,4'-DDT | | |
| 4,4'-DDT | Base peak, 100% relative abundance | | |

| Client Sample ID | Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed |
|---------------------|---------------|----------------|---------------|---------------|
| MS Tune | SLB0374-TUN1 | NT1423022801.D | 02/28/2023 | 11:26 |
| Cal Standard | SLB0374-CAL7 | NT1423022802.D | 02/28/2023 | 11:39 |
| Cal Standard | SLB0374-CAL6 | NT1423022803.D | 02/28/2023 | 12:15 |
| Cal Standard | SLB0374-CAL5 | NT1423022804.D | 02/28/2023 | 12:51 |
| Cal Standard | SLB0374-CAL4 | NT1423022805.D | 02/28/2023 | 13:28 |
| Cal Standard | SLB0374-CAL3 | NT1423022806.D | 02/28/2023 | 14:04 |
| Cal Standard | SLB0374-CAL2 | NT1423022807.D | 02/28/2023 | 14:40 |
| Cal Standard | SLB0374-CAL1 | NT1423022808.D | 02/28/2023 | 15:16 |
| Initial Cal Blank | SLB0374-ICB1 | NT1423022811.D | 02/28/2023 | 17:04 |
| Secondary Cal Check | SLB0374-SCV1 | NT1423022812.D | 02/28/2023 | 17:41 |
| Initial Cal Check | SLB0374-ICV1 | NT1423022813.D | 03/01/2023 | 8:50 |
| Initial Cal Check | SLB0374-ICV2 | NT1423022821.D | 03/01/2023 | 13:39 |
| Low Cal Check | SLB0374-LCV1 | NT1423022823.D | 03/01/2023 | 14:51 |
| Low Cal Check | SLB0374-LCV2 | NT1423022825.D | 03/01/2023 | 16:04 |
| Blank | BLA0557-BLK1 | NT1423022826.D | 03/01/2023 | 16:40 |
| LCS | BLA0557-BS1 | NT1423022827.D | 03/01/2023 | 17:16 |
| LCS Dup | BLA0557-BSD1 | NT1423022828.D | 03/01/2023 | 17:52 |
| Reference | BLA0557-SRM1 | NT1423022829.D | 03/01/2023 | 18:28 |
| ZZZZZ | 23A0179-01 | NT1423022830.D | 03/01/2023 | 19:04 |
| ZZZZZ | 23A0179-02 | NT1423022831.D | 03/01/2023 | 19:40 |
| ZZZZZ | 23A0179-03 | NT1423022832.D | 03/01/2023 | 20:16 |
| ZZZZZ | 23A0179-04 | NT1423022833.D | 03/01/2023 | 20:52 |
| ZZZZZ | 23A0179-05 | NT1423022834.D | 03/01/2023 | 21:28 |
| ZZZZZ | 23A0179-06 | NT1423022835.D | 03/01/2023 | 22:04 |
| Initial Cal Check | SLB0374-ICV3 | NT1423022836.D | 03/01/2023 | 22:40 |
| Low Cal Check | SLB0374-LCV3 | NT1423022838.D | 03/01/2023 | 23:52 |



**MASS SPECTROMETER
INSTRUMENT PERFORMANCE CHECK
EPA 8270E**

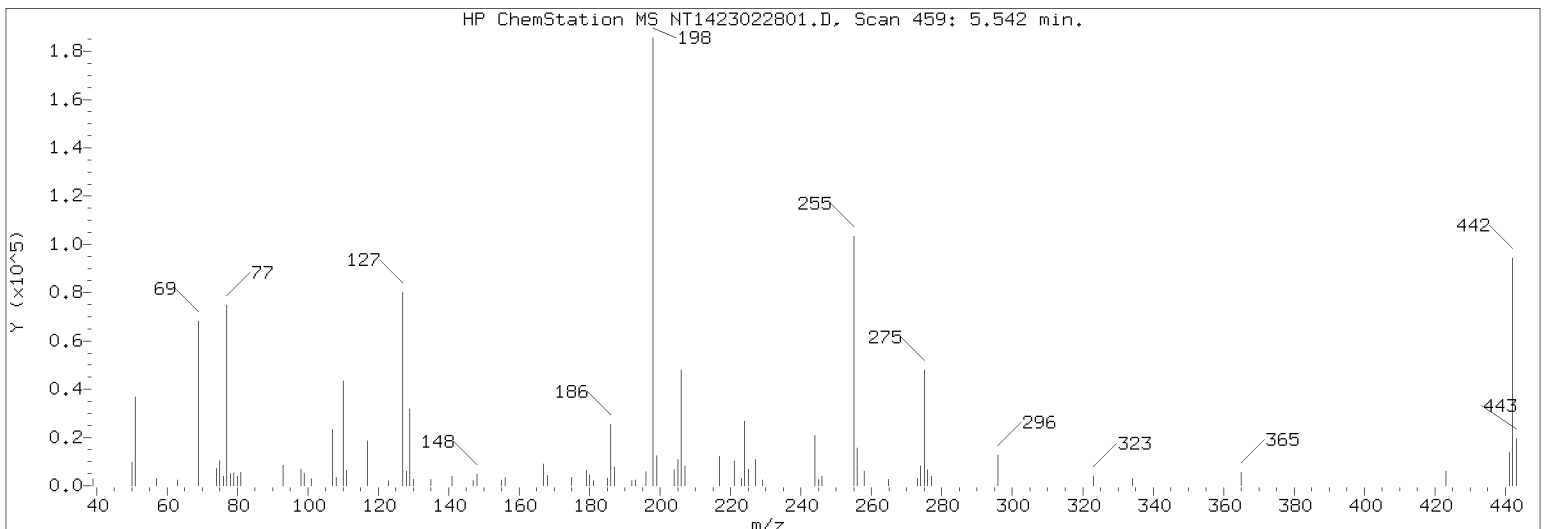
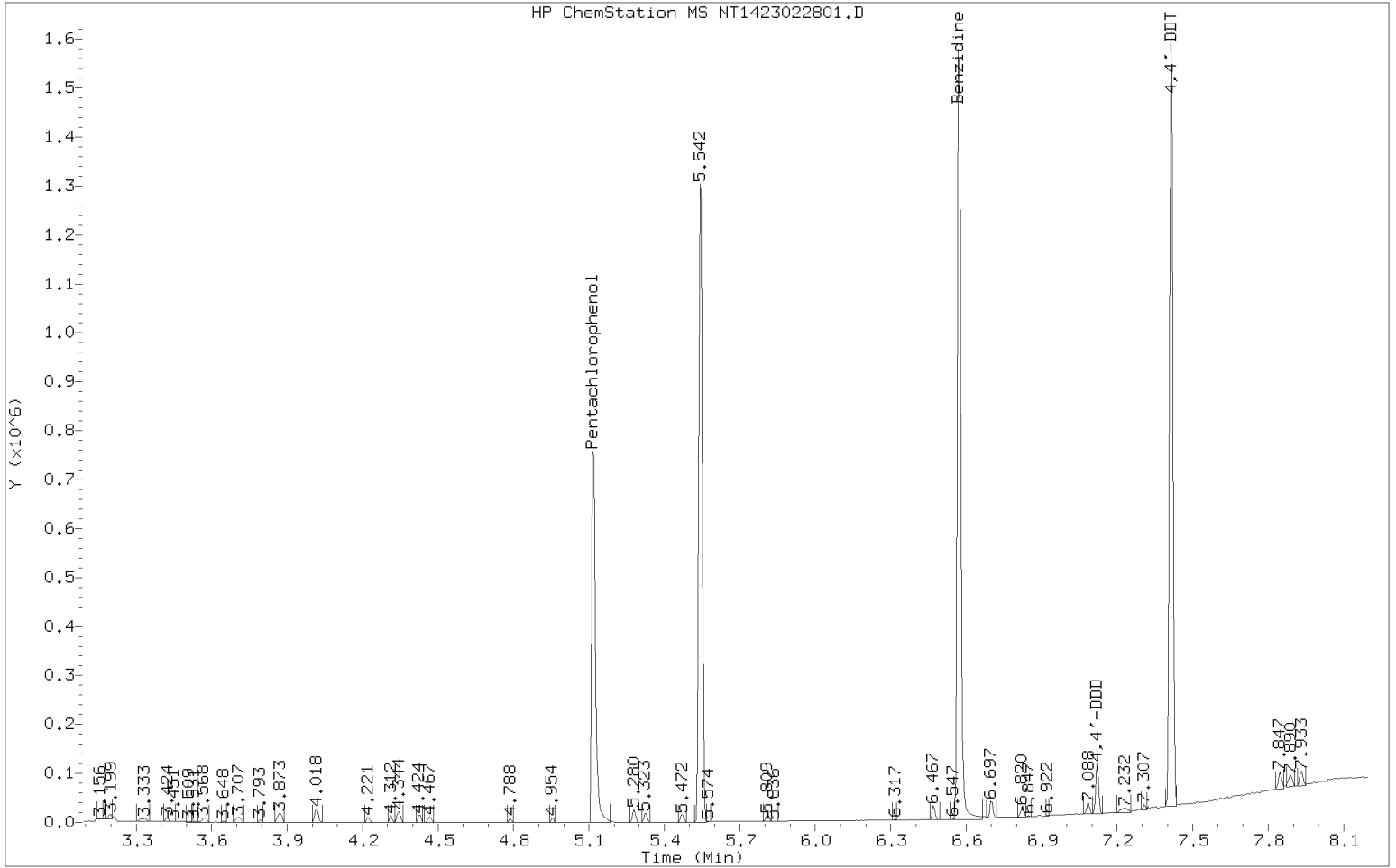
| | | | |
|----------------|----------------------------------|-----------------|------------------------|
| Laboratory: | <u>Analytical Resources, LLC</u> | SDG: | <u>23A0180</u> |
| Client: | <u>Anchor QEA, LLC</u> | Project: | <u>AOC5 MR Phase 1</u> |
| Lab File ID: | <u>NT1423022801.D</u> | Injection Date: | <u>02/28/23</u> |
| Instrument ID: | <u>NT14</u> | Injection Time: | <u>11:26</u> |
| Sequence: | <u>SLB0374</u> | Lab Sample ID: | <u>SLB0374-TUN1</u> |

| m/z | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE | |
|----------|------------------------------------|----------------------|------|
| 68 | Less than 2% of 69 | 0 | PASS |
| 69 | Less than 100% of 198 | 36.5 | PASS |
| 70 | Less than 2% of 69 | 0 | PASS |
| 197 | Less than 2% of 198 | 0 | PASS |
| 198 | Base peak, 100% relative abundance | 100 | PASS |
| 199 | 5 - 9% of 198 | 6.68 | PASS |
| 365 | 1 - 100% of 198 | 3.19 | PASS |
| 441 | Less than 150% of 443 | 72.8 | PASS |
| 442 | 1 - 200% of 198 | 55.7 | PASS |
| 443 | 15 - 24% of 442 | 19.9 | PASS |
| 4,4'-DDD | Less than 20% of 4,4'-DDT | | |
| 4,4'-DDE | Less than 20% of 4,4'-DDT | | |
| 4,4'-DDT | Base peak, 100% relative abundance | | |

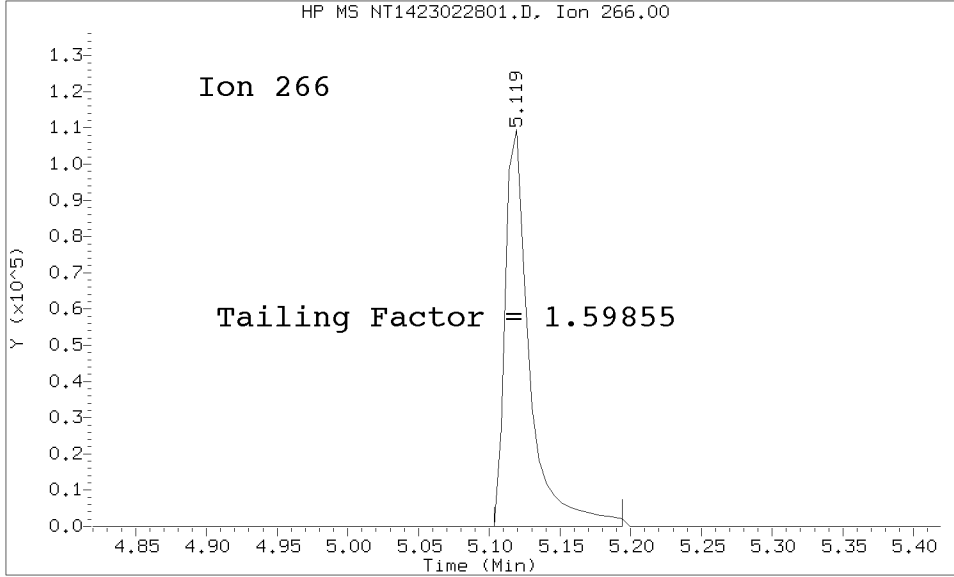
| | | | | |
|-------------------|--------------|----------------|------------|-------|
| Low Cal Check | SLB0374-LCV4 | NT1423022839.D | 03/02/2023 | 0:28 |
| ZZZZZ | 23A0179-07 | NT1423022840.D | 03/02/2023 | 1:03 |
| ZZZZZ | 23A0179-08 | NT1423022841.D | 03/02/2023 | 1:39 |
| ZZZZZ | 23A0179-11 | NT1423022842.D | 03/02/2023 | 2:15 |
| ZZZZZ | 23A0179-12 | NT1423022843.D | 03/02/2023 | 2:51 |
| LDW23-SC1164 | 23A0180-01 | NT1423022844.D | 03/02/2023 | 3:27 |
| LDW23-SC1164-FD | 23A0180-02 | NT1423022845.D | 03/02/2023 | 4:03 |
| LDW23-SC1158 | 23A0180-03 | NT1423022846.D | 03/02/2023 | 4:39 |
| LDW23-SC1151 | 23A0180-04 | NT1423022847.D | 03/02/2023 | 5:15 |
| Initial Cal Check | SLB0374-ICV4 | NT1423022848.D | 03/02/2023 | 5:52 |
| Low Cal Check | SLB0374-LCV5 | NT1423022850.D | 03/02/2023 | 7:04 |
| Low Cal Check | SLB0374-LCV6 | NT1423022851.D | 03/02/2023 | 7:40 |
| ZZZZZ | 23A0179-09 | NT1423022852.D | 03/02/2023 | 8:16 |
| ZZZZZ | 23A0179-10 | NT1423022853.D | 03/02/2023 | 8:53 |
| Calibration Check | SLB0374-CCV1 | NT1423022856.D | 03/02/2023 | 10:41 |

DFTPP TAILING FACTOR AND BREAKDOWN GRAPHIC REPORT

Datafile Analyzed: /20230228.b/NT1423022801.D/NT1423022801.D
Method Used: \20230228.b\DFTPP8270E.m Inst: nt14
Injection Date: 28-FEB-2023 11:26 Operator: JGR
Sample Info: SLB0374-TUN1 SLB0374-TUN1
Report Date: 03/10/2023 13:22



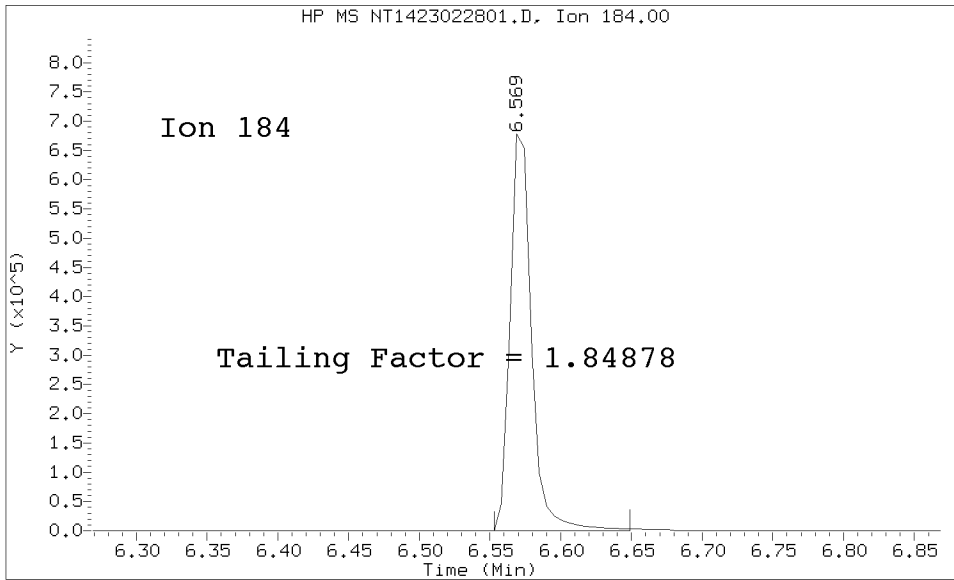
Datafile Analyzed: /20230228.b/NT1423022801.D/NT1423022801.D
Method Used: \20230228.b\DFTPP8270E.m\sw846ddt.m Inst: nt14
Injection Date: 28-FEB-2023 11:26 Operator: JGR
Sample Info: SLB0374-TUN1
Report Date: 03/10/2023 13:22



Pentachlorophenol

=====
Exp. RT = 5.114
Found RT = 5.119

Tail Factor = 1.599 Maximum Allowed = 2.0



Benzidine

=====
Exp. RT = 6.569
Found RT = 6.569

Tail Factor = 1.849 Maximum Allowed = 2.0

8270 TAILING FACTOR/BREAKDOWN SUMMARY RESULTS

TAILING ANALYSIS SUMMARY

| Compound | Tail Factor | Max Allowed | Test |
|-------------------|-------------|-------------|------|
| Pentachlorophenol | 1.5985490 | 2.000 | PASS |
| Benzidine | 1.8487805 | 2.000 | PASS |

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

| Compound | Response | %Breakdown | Max Allowed | Test |
|---------------|----------|------------|-------------|------|
| 4,4-DDT | 329453 | | | N/A |
| 4,4-DDE | 0 | 0.0 | 20.0 | PASS |
| 4,4-DDD | 27266 | 7.6 | 20.0 | PASS |
| 4,4-DDD + DDE | 27266 | 7.6 | 20.0 | PASS |

Tuning Sample, nt14.i/20230228.b/NT1423022801.D, *** PASSED ***

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 198 | Base Peak, 100% relative abundance | 100.00 |
| 68 | Less than 2.00% of mass 69 | 0.00 (0.00) |
| 69 | Mass 69 relative abundance | 36.45 |
| 70 | Less than 2.00% of mass 69 | 0.00 (0.00) |
| 197 | Less than 2.00% of mass 198 | 0.00 |
| 199 | 5.00 - 9.00% of mass 198 | 6.68 |
| 365 | 1.00 - 100.00% of mass 198 | 3.19 |
| 441 | Less than 150.00% of mass 443 | 8.05 (72.75) |
| 442 | Less than 200.00% of mass 198 | 55.70 |
| 443 | 15.00 - 24.00% of mass 442 | 11.06 (19.86) |

Data File: NT1423022801.D

Spectrum: Avg. Scans 458-460 (5.54), Background Scan 454

Location of Maximum: 198.00

Number of points: 81

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|--------|-------|--------|-------|--------|--------|--------|-------|
| 39.00 | 1657 | 111.00 | 5181 | 187.00 | 6163 | 256.00 | 13097 |
| 50.00 | 8048 | 117.00 | 15552 | 192.00 | 670 | 258.00 | 5162 |
| 51.00 | 29792 | 123.00 | 734 | 193.00 | 1610 | 265.00 | 1693 |
| 57.00 | 2542 | 127.00 | 65592 | 196.00 | 4837 | 273.00 | 2065 |
| 63.00 | 796 | 128.00 | 5072 | 198.00 | 154496 | 274.00 | 7299 |
| 69.00 | 56320 | 129.00 | 25912 | 199.00 | 10325 | 275.00 | 41256 |
| 74.00 | 5861 | 130.00 | 1691 | 204.00 | 5619 | 276.00 | 5638 |
| 75.00 | 8903 | 135.00 | 1686 | 205.00 | 9289 | 277.00 | 3469 |
| 76.00 | 3254 | 141.00 | 3424 | 206.00 | 40192 | 296.00 | 10926 |
| 77.00 | 61744 | 147.00 | 749 | 207.00 | 7142 | 323.00 | 2830 |
| 78.00 | 4358 | 148.00 | 4047 | 217.00 | 10352 | 334.00 | 1934 |
| 79.00 | 4457 | 155.00 | 768 | 221.00 | 8641 | 365.00 | 4928 |
| 80.00 | 3215 | 156.00 | 2880 | 223.00 | 1846 | 372.00 | 799 |
| 81.00 | 4594 | 167.00 | 7552 | 224.00 | 22544 | 423.00 | 5393 |
| 93.00 | 7180 | 168.00 | 3743 | 225.00 | 5687 | 441.00 | 12432 |
| 98.00 | 5732 | 175.00 | 2206 | 227.00 | 9264 | 442.00 | 86056 |
| 99.00 | 4413 | 179.00 | 5289 | 229.00 | 1539 | 443.00 | 17088 |
| 101.00 | 1800 | 180.00 | 3808 | 244.00 | 17592 | 444.00 | 724 |
| 107.00 | 19032 | 181.00 | 1392 | 245.00 | 1845 | | |
| 108.00 | 2825 | 185.00 | 2091 | 246.00 | 3444 | | |
| 110.00 | 35440 | 186.00 | 21032 | 255.00 | 87912 | | |



**MASS SPECTROMETER
INSTRUMENT PERFORMANCE CHECK
EPA 8270E**

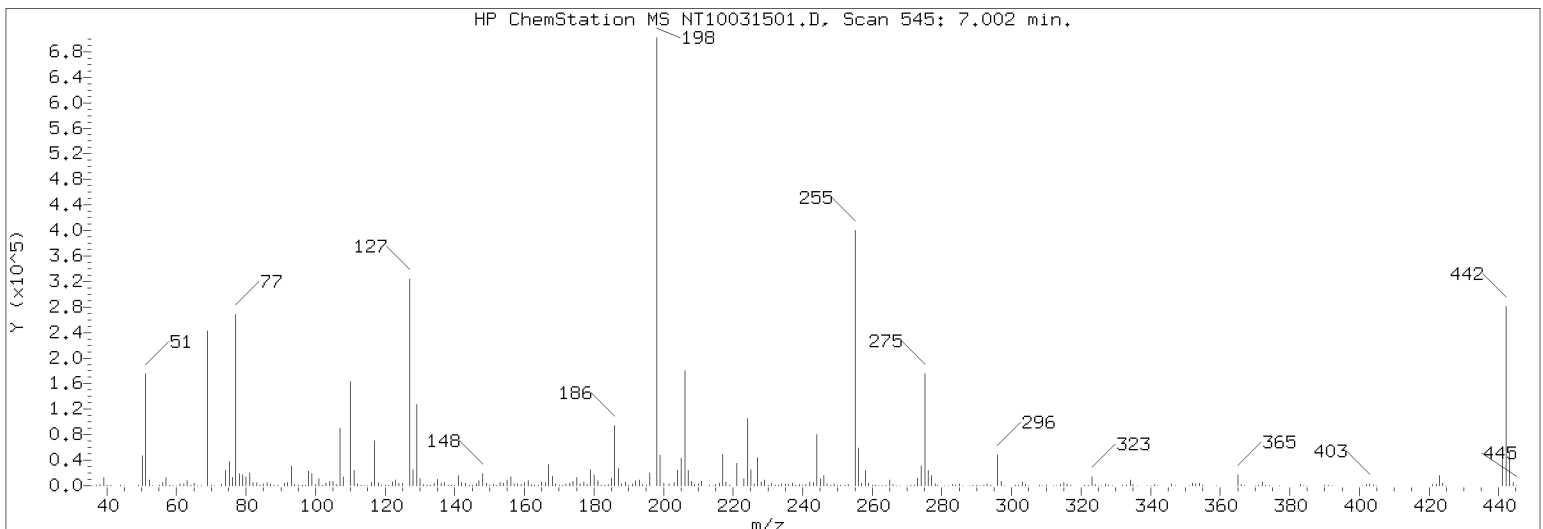
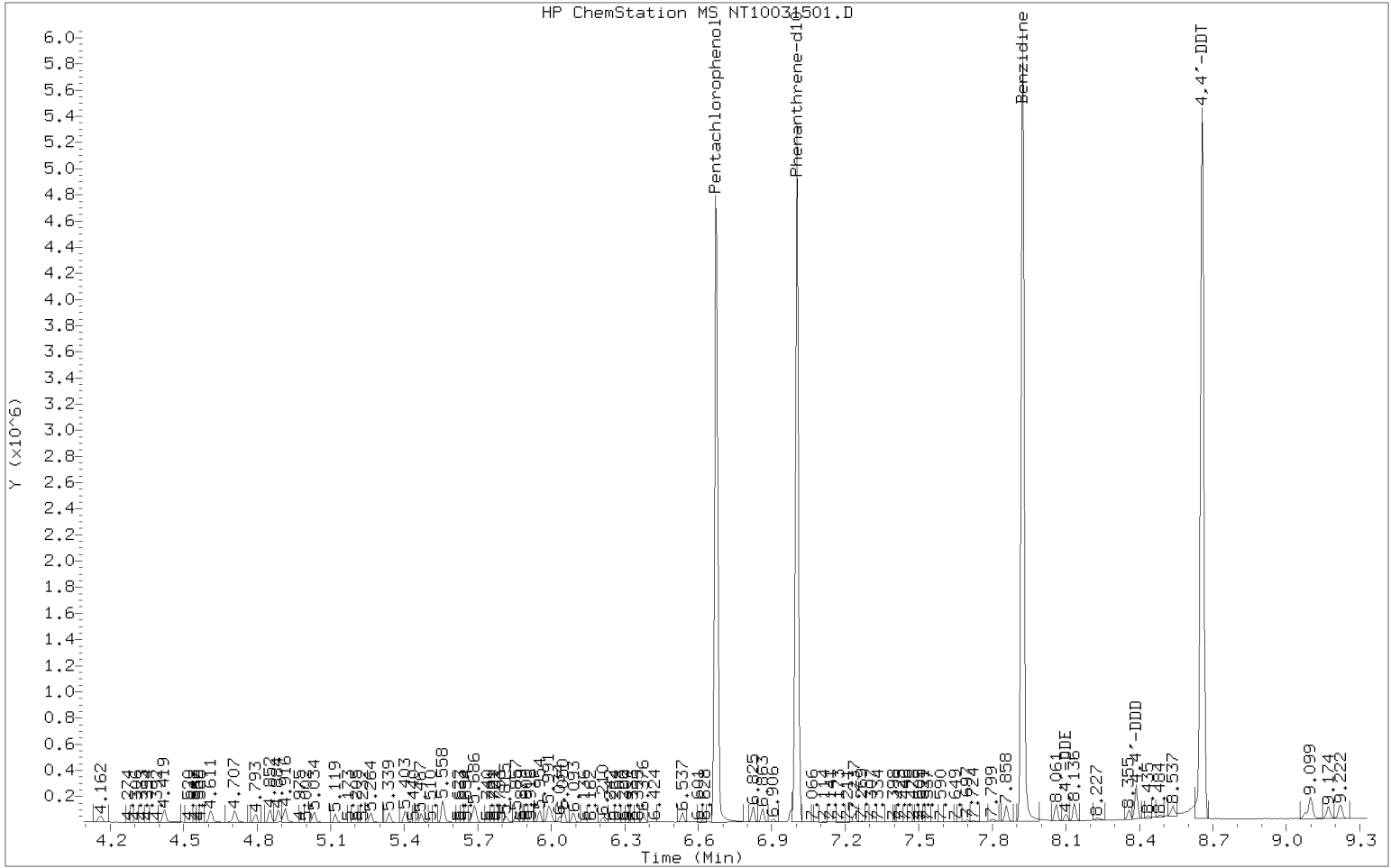
| | | | |
|----------------|----------------------------------|-----------------|------------------------|
| Laboratory: | <u>Analytical Resources, LLC</u> | SDG: | <u>23A0180</u> |
| Client: | <u>Anchor QEA, LLC</u> | Project: | <u>AOC5 MR Phase 1</u> |
| Lab File ID: | <u>NT10031501.D</u> | Injection Date: | <u>03/15/23</u> |
| Instrument ID: | <u>NT10</u> | Injection Time: | <u>20:19</u> |
| Sequence: | <u>SLC0228</u> | Lab Sample ID: | <u>SLC0228-TUN1</u> |

| m/z | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE | |
|----------|------------------------------------|----------------------|------|
| 68 | Less than 2% of 69 | 0.372 | PASS |
| 69 | Less than 100% of 198 | 36.5 | PASS |
| 70 | Less than 2% of 69 | 0.498 | PASS |
| 197 | Less than 2% of 198 | 0 | PASS |
| 198 | Base peak, 100% relative abundance | 100 | PASS |
| 199 | 5 - 9% of 198 | 6.88 | PASS |
| 365 | 1 - 100% of 198 | 2.52 | PASS |
| 441 | Less than 150% of 443 | 77.1 | PASS |
| 442 | 1 - 200% of 198 | 42.8 | PASS |
| 443 | 15 - 24% of 442 | 18.5 | PASS |
| 4,4'-DDD | Less than 20% of 4,4'-DDT | | |
| 4,4'-DDE | Less than 20% of 4,4'-DDT | | |
| 4,4'-DDT | Less than 200% of | | |

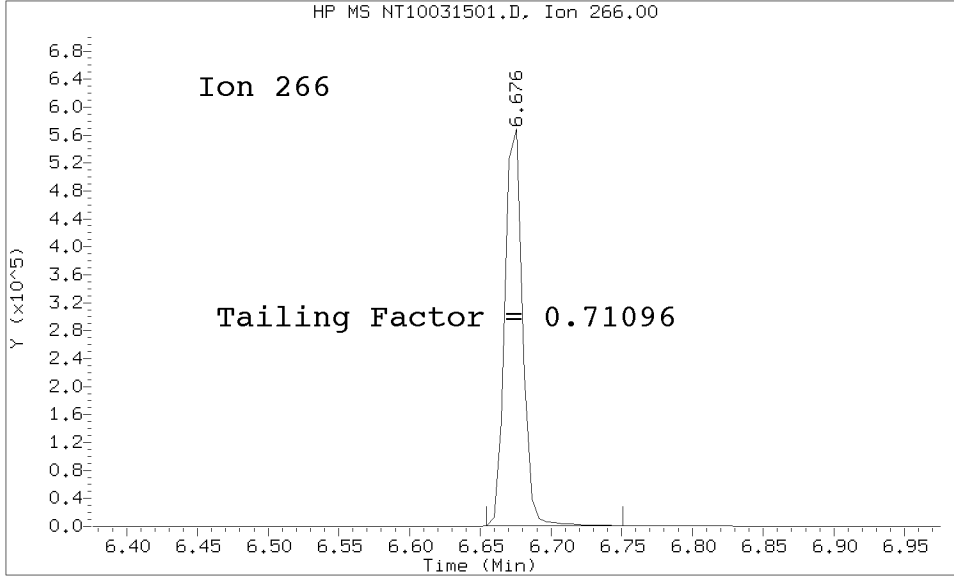
| Client Sample ID | Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed |
|---------------------|---------------|--------------|---------------|---------------|
| MS Tune | SLC0228-TUN1 | NT10031501.D | 03/15/2023 | 20:19 |
| Cal Standard | SLC0228-CAL7 | NT10031502.D | 03/15/2023 | 20:34 |
| Cal Standard | SLC0228-CAL6 | NT10031503.D | 03/15/2023 | 21:12 |
| Cal Standard | SLC0228-CAL5 | NT10031504.D | 03/15/2023 | 21:50 |
| Cal Standard | SLC0228-CAL4 | NT10031505.D | 03/15/2023 | 22:28 |
| Cal Standard | SLC0228-CAL3 | NT10031506.D | 03/15/2023 | 23:06 |
| Cal Standard | SLC0228-CAL2 | NT10031507.D | 03/15/2023 | 23:44 |
| Cal Standard | SLC0228-CAL1 | NT10031508.D | 03/16/2023 | 0:22 |
| Secondary Cal Check | SLC0228-SCV1 | NT10031511.D | 03/16/2023 | 2:16 |
| Initial Cal Blank | SLC0228-ICB1 | NT10031512.D | 03/16/2023 | 2:54 |

DFTPP TAILING FACTOR AND BREAKDOWN GRAPHIC REPORT

Datafile Analyzed: /20230315.b/NT10031501.D/NT10031501.D
 Method Used: \20230315.b\DFTPP8270E.m Inst: nt10
 Injection Date: 15-MAR-2023 20:19 Operator: JGR
 Sample Info: SLC0228-TUN1 SLC0228-TUN1
 Report Date: 03/16/2023 12:23



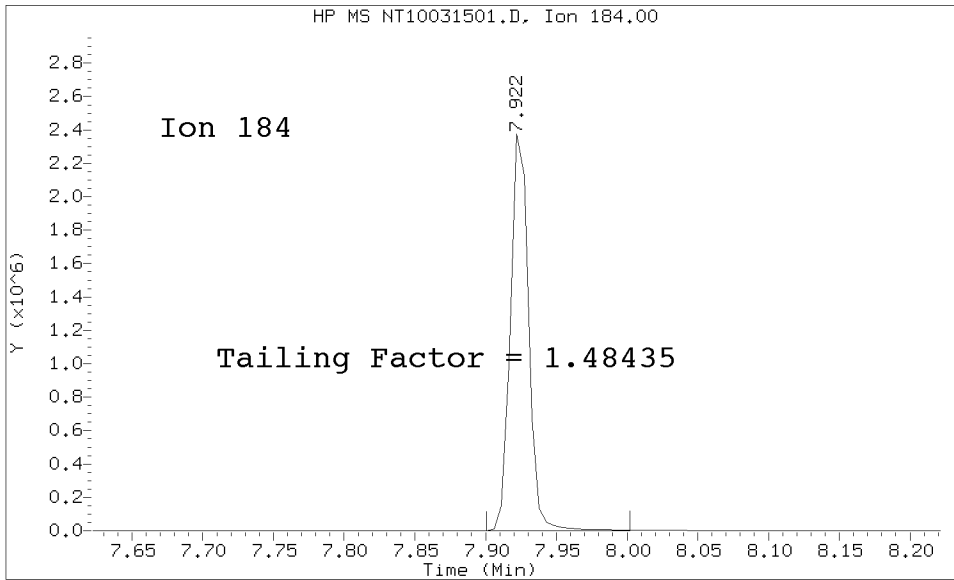
Datafile Analyzed: /20230315.b/NT10031501.D/NT10031501.D
Method Used: \20230315.b\DFTPP8270E.m\sw846ddt.m Inst: nt10
Injection Date: 15-MAR-2023 20:19 Operator: JGR
Sample Info: SEQ-TUN1
Report Date: 03/16/2023 12:23



Pentachlorophenol

=====
Exp. RT = 6.676
Found RT = 6.676

Tail Factor = 0.711 Maximum Allowed = 2.0



Benzidine

=====
Exp. RT = 7.922
Found RT = 7.922

Tail Factor = 1.484 Maximum Allowed = 2.0

8270 TAILING FACTOR/BREAKDOWN SUMMARY RESULTS

TAILING ANALYSIS SUMMARY

| Compound | Tail Factor | Max Allowed | Test |
|-------------------|-------------|-------------|------|
| Pentachlorophenol | 0.7109557 | 2.000 | PASS |
| Benzidine | 1.4843493 | 2.000 | PASS |

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

| Compound | Response | %Breakdown | Max Allowed | Test |
|---------------|----------|------------|-------------|------|
| 4,4-DDT | 962640 | | | N/A |
| 4,4-DDE | 5158 | 0.5 | 20.0 | PASS |
| 4,4-DDD | 41277 | 4.1 | 20.0 | PASS |
| 4,4-DDD + DDE | 46435 | 4.6 | 20.0 | PASS |

Tuning Sample, nt10.i/20230315.b/NT10031501.D, *** PASSED ***

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 198 | Base Peak, 100% relative abundance | 100.00 |
| 68 | Less than 2.00% of mass 69 | 0.14 (0.37) |
| 69 | Mass 69 relative abundance | 36.50 |
| 70 | Less than 2.00% of mass 69 | 0.18 (0.50) |
| 197 | Less than 2.00% of mass 198 | 0.00 |
| 199 | 5.00 - 9.00% of mass 198 | 6.88 |
| 365 | 1.00 - 100.00% of mass 198 | 2.52 |
| 441 | Less than 150.00% of mass 443 | 6.11 (77.09) |
| 442 | Less than 200.00% of mass 198 | 42.80 |
| 443 | 15.00 - 24.00% of mass 442 | 7.92 (18.52) |

Data File: NT10031501.D
 Spectrum: Avg. Scans 544-546 (7.00), Background Scan 536
 Location of Maximum: 198.00
 Number of points: 316

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|-------|--------|--------|--------|--------|--------|--------|-------|
| 36.00 | 226 | 124.00 | 3185 | 207.00 | 17112 | 293.00 | 2318 |
| 37.00 | 575 | 125.00 | 2909 | 208.00 | 4722 | 294.00 | 588 |
| 38.00 | 1820 | 127.00 | 243264 | 209.00 | 1586 | 295.00 | 171 |
| 39.00 | 10159 | 128.00 | 18696 | 210.00 | 2002 | 296.00 | 36168 |
| 40.00 | 405 | 129.00 | 96304 | 211.00 | 5093 | 297.00 | 5056 |
| 41.00 | 312 | 130.00 | 8257 | 213.00 | 371 | 298.00 | 351 |
| 42.00 | 59 | 131.00 | 1626 | 214.00 | 74 | 301.00 | 422 |
| 45.00 | 283 | 132.00 | 820 | 215.00 | 1549 | 302.00 | 552 |
| 49.00 | 910 | 133.00 | 415 | 216.00 | 2822 | 303.00 | 4130 |
| 50.00 | 35800 | 134.00 | 2800 | 217.00 | 36520 | 304.00 | 1107 |
| 51.00 | 136000 | 135.00 | 7704 | 218.00 | 4515 | 305.00 | 126 |
| 52.00 | 7201 | 136.00 | 3195 | 219.00 | 360 | 308.00 | 532 |
| 53.00 | 294 | 137.00 | 3970 | 221.00 | 25672 | 309.00 | 330 |
| 55.00 | 668 | 138.00 | 948 | 222.00 | 2863 | 310.00 | 461 |
| 56.00 | 4206 | 139.00 | 563 | 223.00 | 8094 | 312.00 | 63 |
| 57.00 | 9877 | 140.00 | 1193 | 224.00 | 76160 | 313.00 | 360 |
| 58.00 | 478 | 141.00 | 12476 | 225.00 | 18680 | 314.00 | 1762 |
| 59.00 | 106 | 142.00 | 3876 | 226.00 | 2197 | 315.00 | 4011 |
| 60.00 | 125 | 143.00 | 2757 | 227.00 | 32752 | 316.00 | 2200 |
| 61.00 | 1897 | 144.00 | 726 | 228.00 | 4949 | 317.00 | 416 |
| 62.00 | 2103 | 145.00 | 710 | 229.00 | 6725 | 321.00 | 1068 |
| 63.00 | 6654 | 146.00 | 2200 | 230.00 | 933 | 322.00 | 491 |
| 64.00 | 895 | 147.00 | 6157 | 231.00 | 2854 | 323.00 | 10541 |
| 65.00 | 3279 | 148.00 | 13642 | 232.00 | 574 | 324.00 | 1817 |
| 66.00 | 188 | 149.00 | 2992 | 233.00 | 660 | 325.00 | 178 |
| 67.00 | 249 | 150.00 | 753 | 234.00 | 2022 | 326.00 | 218 |
| 68.00 | 704 | 151.00 | 1678 | 235.00 | 2475 | 327.00 | 2103 |
| 69.00 | 189184 | 152.00 | 893 | 236.00 | 1621 | 328.00 | 1092 |
| 70.00 | 943 | 153.00 | 4091 | 237.00 | 2803 | 329.00 | 211 |
| 71.00 | 156 | 154.00 | 3154 | 238.00 | 375 | 332.00 | 739 |
| 73.00 | 1307 | 155.00 | 6743 | 239.00 | 1387 | 333.00 | 975 |
| 74.00 | 18768 | 156.00 | 10344 | 240.00 | 943 | 334.00 | 6536 |
| 75.00 | 30000 | 157.00 | 2091 | 241.00 | 1718 | 335.00 | 1733 |
| 76.00 | 10364 | 158.00 | 2204 | 242.00 | 4096 | 336.00 | 201 |
| 77.00 | 207552 | 159.00 | 1689 | 243.00 | 3931 | 339.00 | 148 |
| 78.00 | 14246 | 160.00 | 3864 | 244.00 | 58560 | 340.00 | 135 |
| 79.00 | 13356 | 161.00 | 5891 | 245.00 | 7760 | 341.00 | 1142 |
| 80.00 | 10539 | 162.00 | 1637 | 246.00 | 11941 | 342.00 | 277 |
| 81.00 | 15173 | 163.00 | 475 | 247.00 | 2526 | 346.00 | 2192 |
| 82.00 | 3906 | 164.00 | 608 | 248.00 | 602 | 347.00 | 346 |
| 83.00 | 3545 | 165.00 | 4507 | 249.00 | 2169 | 351.00 | 182 |
| 84.00 | 178 | 166.00 | 3807 | 250.00 | 370 | 352.00 | 3059 |
| 85.00 | 2559 | 167.00 | 24880 | 251.00 | 462 | 353.00 | 1950 |
| 86.00 | 4226 | 168.00 | 11639 | 252.00 | 590 | 354.00 | 3010 |
| 87.00 | 1998 | 169.00 | 2046 | 253.00 | 1331 | 355.00 | 569 |
| 88.00 | 783 | 170.00 | 776 | 255.00 | 296384 | 359.00 | 242 |
| 89.00 | 418 | 171.00 | 1036 | 256.00 | 43272 | 365.00 | 13085 |
| 91.00 | 3237 | 172.00 | 2248 | 257.00 | 3394 | 366.00 | 1813 |
| 92.00 | 3764 | 173.00 | 2906 | 258.00 | 18176 | 367.00 | 150 |

| | | | | | | | |
|--------|--------|--------|--------|--------|--------|--------|--------|
| 93.00 | 24104 | 174.00 | 5113 | 259.00 | 2926 | 370.00 | 291 |
| 94.00 | 1672 | 175.00 | 9851 | 260.00 | 520 | 371.00 | 690 |
| 95.00 | 503 | 176.00 | 2588 | 261.00 | 479 | 372.00 | 4605 |
| 96.00 | 1130 | 177.00 | 4756 | 262.00 | 60 | 373.00 | 1002 |
| 97.00 | 380 | 178.00 | 1657 | 263.00 | 151 | 374.00 | 50 |
| 98.00 | 17936 | 179.00 | 18424 | 264.00 | 377 | 377.00 | 67 |
| 99.00 | 14658 | 180.00 | 12975 | 265.00 | 6992 | 383.00 | 1157 |
| 100.00 | 1303 | 181.00 | 6000 | 266.00 | 984 | 384.00 | 328 |
| 101.00 | 8724 | 182.00 | 963 | 267.00 | 105 | 385.00 | 50 |
| 102.00 | 480 | 183.00 | 493 | 268.00 | 248 | 390.00 | 595 |
| 103.00 | 2859 | 184.00 | 1456 | 270.00 | 285 | 391.00 | 401 |
| 104.00 | 5461 | 185.00 | 9317 | 271.00 | 631 | 392.00 | 204 |
| 105.00 | 5056 | 186.00 | 70384 | 272.00 | 750 | 401.00 | 211 |
| 106.00 | 1781 | 187.00 | 20112 | 273.00 | 8749 | 402.00 | 1564 |
| 107.00 | 67936 | 188.00 | 2185 | 274.00 | 23296 | 403.00 | 2292 |
| 108.00 | 10471 | 189.00 | 4453 | 275.00 | 129008 | 404.00 | 796 |
| 109.00 | 595 | 190.00 | 772 | 276.00 | 17320 | 405.00 | 237 |
| 110.00 | 122760 | 191.00 | 2090 | 277.00 | 11470 | 421.00 | 1827 |
| 111.00 | 18400 | 192.00 | 5915 | 278.00 | 2005 | 422.00 | 1658 |
| 112.00 | 2357 | 193.00 | 6863 | 279.00 | 468 | 423.00 | 12304 |
| 113.00 | 756 | 194.00 | 1470 | 281.00 | 147 | 424.00 | 2795 |
| 114.00 | 128 | 195.00 | 841 | 282.00 | 368 | 425.00 | 263 |
| 115.00 | 298 | 196.00 | 14341 | 283.00 | 1453 | 441.00 | 31664 |
| 116.00 | 3871 | 198.00 | 518272 | 284.00 | 874 | 442.00 | 221824 |
| 117.00 | 54088 | 199.00 | 35680 | 285.00 | 2012 | 443.00 | 41072 |
| 118.00 | 3919 | 200.00 | 2830 | 286.00 | 333 | 444.00 | 3778 |
| 119.00 | 531 | 201.00 | 2302 | 288.00 | 146 | 445.00 | 177 |
| 120.00 | 920 | 203.00 | 3657 | 289.00 | 446 | | |
| 121.00 | 362 | 204.00 | 18200 | 290.00 | 444 | | |
| 122.00 | 4396 | 205.00 | 31664 | 291.00 | 199 | | |
| 123.00 | 6778 | 206.00 | 132736 | 292.00 | 486 | | |



INITIAL CALIBRATION DATA
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Calibration: GC00033

Instrument: NT14

Calibration Date: 02/28/2023

Column (1): ZB-5MS

Calibration Comments: 625.1/8270E ICAL

| Compound | Level 01 | | Level 02 | | Level 03 | | Level 04 | | Level 05 | | Level 06 | |
|------------------------------|----------|--------------|----------|--------------|----------|--------------|----------|-----------|----------|-----------|----------|-----------|
| | Conc | RRF | Conc | RRF | Conc | RRF | Conc | RRF | Conc | RRF | Conc | RRF |
| Phenol | 0.2 | 1.712768 | 0.5 | 1.731331 | 1 | 1.941622 | 2.5 | 1.987296 | 5 | 1.973342 | 10 | 1.873195 |
| bis(2-chloroethyl) ether | 0.2 | 3.079183 | 0.5 | 1.348716 | 1 | 1.456029 | 2.5 | 1.256664 | 5 | 1.229827 | 10 | 1.210863 |
| 2-Chlorophenol | 0.2 | 1.108365 | 0.5 | 1.329142 | 1 | 1.444217 | 2.5 | 1.432367 | 5 | 1.417362 | 10 | 1.412931 |
| 1,3-Dichlorobenzene | 0.2 | 1.57187 | 0.5 | 1.559851 | 1 | 1.574696 | 2.5 | 1.493157 | 5 | 1.467118 | 10 | 1.426333 |
| 1,4-Dichlorobenzene | 0.2 | 1.453135 | 0.5 | 1.541227 | 1 | 1.4873 | 2.5 | 1.428466 | 5 | 1.530187 | 10 | 1.479028 |
| 1,2-Dichlorobenzene | 0.2 | 1.459292 | 0.5 | 1.485102 | 1 | 1.512529 | 2.5 | 1.419847 | 5 | 1.397494 | 10 | 1.353375 |
| Benzyl Alcohol | 0.2 | 0.2288499 | 0.5 | 0.4928379 | 1 | 0.5608699 | 2.5 | 0.7185784 | 5 | 0.8116134 | 10 | 0.8402451 |
| 2,2'-Oxybis(1-chloropropane) | 0.2 | 0.3760807 | 0.5 | 0.3857185 | 1 | 0.4031818 | 2.5 | 0.3805278 | 5 | 0.3790365 | 10 | 0.3772456 |
| 2-Methylphenol | 0.2 | 0.8234021 | 0.5 | 1.08513 | 1 | 1.235627 | 2.5 | 1.246448 | 5 | 1.237208 | 10 | 1.326477 |
| Hexachloroethane | 0.2 | 0.5117019 | 0.5 | 0.5437053 | 1 | 0.5658542 | 2.5 | 0.5685802 | 5 | 0.5673899 | 10 | 0.5690638 |
| N-Nitroso-di-n-Propylamine | 0.2 | 0.6872532 | 0.5 | 0.8122956 | 1 | 0.9393691 | 2.5 | 0.9436959 | 5 | 0.9564936 | 10 | 0.9375951 |
| 4-Methylphenol | 0.2 | 0.5590199 | 0.5 | 0.9905534 | 1 | 1.23276 | 2.5 | 1.292867 | 5 | 1.313066 | 10 | 1.310361 |
| Nitrobenzene | 0.2 | 0.2878535 | 0.5 | 0.3672263 | 1 | 0.3964913 | 2.5 | 0.4032943 | 5 | 0.4097031 | 10 | 0.396267 |
| Isophorone | 0.2 | 0.3348052 | 0.5 | 0.4290028 | 1 | 0.49565 | 2.5 | 0.5397074 | 5 | 0.5706055 | 10 | 0.5776544 |
| 2-Nitrophenol | 0.2 | 5.489346E-02 | 0.5 | 8.435186E-02 | 1 | 0.1271098 | 2.5 | 0.1648161 | 5 | 0.1947755 | 10 | 0.2017022 |
| 2,4-Dimethylphenol | 0.4 | 0.288353 | 1 | 0.3568912 | 2 | 0.3695015 | 5 | 0.3688258 | 10 | 0.3609294 | 20 | 0.3461025 |
| Bis(2-Chloroethoxy)methane | 0.2 | 0.3122284 | 0.5 | 0.4018441 | 1 | 0.4207979 | 2.5 | 0.4038351 | 5 | 0.3825721 | 10 | 0.3743354 |
| 2,4-Dichlorophenol | 0.4 | 0.1792404 | 1 | 0.2682256 | 2 | 0.3281104 | 5 | 0.3401544 | 10 | 0.3377157 | 20 | 0.3148455 |
| 1,2,4-Trichlorobenzene | 0.2 | 0.4018361 | 0.5 | 0.4098605 | 1 | 0.4140445 | 2.5 | 0.3911199 | 5 | 0.3851484 | 10 | 0.3674945 |
| Naphthalene | 0.2 | 1.119697 | 0.5 | 1.124452 | 1 | 1.110394 | 2.5 | 1.077682 | 5 | 1.054807 | 10 | 1.022797 |
| Benzoic acid | 0.8 | | 2 | | 4 | 3.673253E-02 | 10 | 0.1005532 | 20 | 0.1445263 | 40 | 0.1681361 |
| 4-Chloroaniline | | | 1 | 0.4165469 | 2 | 0.4689615 | 5 | 0.4756123 | 10 | 0.4763314 | 20 | 0.4639102 |
| Hexachlorobutadiene | 0.2 | 0.2274657 | 0.5 | 0.2358185 | 1 | 0.2370683 | 2.5 | 0.2304291 | 5 | 0.2594932 | 10 | 0.2264162 |
| 4-Chloro-3-Methylphenol | | | 1 | 0.2597778 | 2 | 0.3133791 | 5 | 0.3214646 | 10 | 0.3319357 | 20 | 0.326473 |
| 2-Methylnaphthalene | 0.2 | 0.7431346 | 0.5 | 0.8130347 | 1 | 0.8169639 | 2.5 | 0.8120915 | 5 | 0.8147841 | 10 | 0.7971684 |
| Hexachlorocyclopentadiene | 0.4 | 0.1544995 | 1 | 0.2623772 | 2 | 0.3250484 | 5 | 0.3856932 | 10 | 0.4139764 | 20 | 0.4356396 |
| 2,4,6-Trichlorophenol | | | 1 | 0.3150882 | 2 | 0.37111 | 5 | 0.3983879 | 10 | 0.4168866 | 20 | 0.4227493 |



INITIAL CALIBRATION DATA
EPA 8270E

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Calibration: GC00033
Calibration Date: 02/28/2023

SDG: 23A0180
Project: AOC5 MR Phase 1
Instrument: NT14
Column (1): ZB-5MS

Calibration Comments: 625.1/8270E ICAL

| Compound | Level 01 | | Level 02 | | Level 03 | | Level 04 | | Level 05 | | Level 06 | |
|----------------------------|----------|--------------|----------|--------------|----------|--------------|----------|--------------|----------|-----------|----------|-----------|
| | Conc | RRF | Conc | RRF | Conc | RRF | Conc | RRF | Conc | RRF | Conc | RRF |
| 2,4,5-Trichlorophenol | | | 1 | 0.3216641 | 2 | 0.3876535 | 5 | 0.4450743 | 10 | 0.4570205 | 20 | 0.4661115 |
| 2-Chloronaphthalene | 0.2 | 1.207377 | 0.5 | 1.264797 | 1 | 1.293992 | 2.5 | 1.277444 | 5 | 1.249269 | 10 | 1.243539 |
| 2-Nitroaniline | | | 1 | 0.265106 | 2 | 0.3174904 | 5 | 0.3425215 | 10 | 0.3510378 | 20 | 0.3448329 |
| Acenaphthylene | 0.2 | 1.626642 | 0.5 | 1.891066 | 1 | 1.995828 | 2.5 | 1.954387 | 5 | 1.86926 | 10 | 1.792876 |
| Dimethylphthalate | 0.2 | 1.007971 | 0.5 | 1.278097 | 1 | 1.352742 | 2.5 | 1.357678 | 5 | 1.325143 | 10 | 1.272343 |
| 2,6-Dinitrotoluene | | | 1 | 0.268625 | 2 | 0.300598 | 5 | 0.3101517 | 10 | 0.3066189 | 20 | 0.2981374 |
| Acenaphthene | 0.2 | 1.204263 | 0.5 | 1.203362 | 1 | 1.21378 | 2.5 | 1.18973 | 5 | 1.150139 | 10 | 1.142859 |
| 3-Nitroaniline | | | 1 | 0.2440812 | 2 | 0.2855296 | 5 | 0.3133955 | 10 | 0.3231622 | 20 | 0.3277799 |
| 2,4-Dinitrophenol | 0.8 | | 2 | 2.473766E-02 | 4 | 7.423548E-02 | 10 | 0.128182 | 20 | 0.1799291 | 40 | 0.2170989 |
| Dibenzofuran | 0.2 | 1.804079 | 0.5 | 1.927271 | 1 | 1.971878 | 2.5 | 1.90866 | 5 | 1.855843 | 10 | 1.825071 |
| 4-Nitrophenol | 0.4 | | 1 | 7.534622E-02 | 2 | 0.1151699 | 5 | 0.116158 | 10 | 0.1519276 | 20 | 0.1635488 |
| 2,4-Dinitrotoluene | | | 1 | 0.363982 | 2 | 0.4135869 | 5 | 0.4449894 | 10 | 0.4391244 | 20 | 0.4443389 |
| Fluorene | 0.2 | 1.557284 | 0.5 | 1.654098 | 1 | 1.691035 | 2.5 | 1.642875 | 5 | 1.551269 | 10 | 1.515318 |
| 4-Chlorophenylphenyl ether | 0.2 | 0.905196 | 0.5 | 0.8803266 | 1 | 0.8812613 | 2.5 | 0.8474044 | 5 | 0.8177953 | 10 | 0.7987249 |
| Diethyl phthalate | 0.2 | 0.9088996 | 0.5 | 1.173451 | 1 | 1.262887 | 2.5 | 1.257746 | 5 | 1.24571 | 10 | 1.217703 |
| 4-Nitroaniline | | | 1 | 0.221282 | 2 | 0.2794626 | 5 | 0.3157909 | 10 | 0.3206992 | 20 | 0.3288736 |
| 4,6-Dinitro-2-methylphenol | 0.8 | 1.189339E-02 | 2 | 6.068486E-02 | 4 | 7.942052E-02 | 10 | 0.1186526 | 20 | 0.1347691 | 40 | 0.1381154 |
| N-Nitrosodiphenylamine | 0.2 | 0.4454538 | 0.5 | 0.5289334 | 1 | 0.5450198 | 2.5 | 0.5189517 | 5 | 0.5160036 | 10 | 0.4929994 |
| 4-Bromophenyl phenyl ether | 0.2 | 0.1934343 | 0.5 | 0.2163034 | 1 | 0.2236494 | 2.5 | 0.2268074 | 5 | 0.2320823 | 10 | 0.2275556 |
| Hexachlorobenzene | 0.2 | 0.2415241 | 0.5 | 0.2456314 | 1 | 0.2557792 | 2.5 | 0.243163 | 5 | 0.2479347 | 10 | 0.237284 |
| Pentachlorophenol | 0.4 | | 1 | 2.673132E-02 | 2 | 5.625738E-02 | 5 | 8.443774E-02 | 10 | 0.1172885 | 20 | 0.1307331 |
| Phenanthrene | 0.2 | 1.091353 | 0.5 | 1.114267 | 1 | 1.114058 | 2.5 | 1.078982 | 5 | 1.065876 | 10 | 1.008541 |
| Anthracene | 0.2 | 0.818472 | 0.5 | 0.9901716 | 1 | 1.054585 | 2.5 | 1.064528 | 5 | 1.075772 | 10 | 1.036147 |
| Carbazole | 0.2 | 0.7587254 | 0.5 | 0.8992655 | 1 | 0.9201739 | 2.5 | 0.8652348 | 5 | 0.9099053 | 10 | 0.9132403 |
| Di-n-Butylphthalate | 0.2 | 0.5159109 | 0.5 | 0.7941874 | 1 | 0.9528767 | 2.5 | 1.072193 | 5 | 1.128907 | 10 | 1.103841 |
| Fluoranthene | 0.2 | 1.308457 | 0.5 | 1.496112 | 1 | 1.580434 | 2.5 | 1.577303 | 5 | 1.594961 | 10 | 1.552949 |
| Pyrene | 0.2 | 1.434167 | 0.5 | 1.606007 | 1 | 1.672882 | 2.5 | 1.636447 | 5 | 1.739311 | 10 | 1.58694 |



INITIAL CALIBRATION DATA
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Calibration: GC00033

Instrument: NT14

Calibration Date: 02/28/2023

Column (1): ZB-5MS

Calibration Comments: 625.1/8270E ICAL

| Compound | Level 01 | | Level 02 | | Level 03 | | Level 04 | | Level 05 | | Level 06 | |
|-----------------------------|----------|--------------|----------|-----------|----------|-----------|----------|-----------|----------|-----------|----------|-----------|
| | Conc | RRF | Conc | RRF | Conc | RRF | Conc | RRF | Conc | RRF | Conc | RRF |
| Butylbenzylphthalate | 0.2 | 0.2086269 | 0.5 | 0.3691322 | 1 | 0.4614545 | 2.5 | 0.5232703 | 5 | 0.5552111 | 10 | 0.5511547 |
| Benzo(a)anthracene | 0.2 | 1.259012 | 0.5 | 1.429612 | 1 | 1.447772 | 2.5 | 1.424247 | 5 | 1.420695 | 10 | 1.325256 |
| 3,3'-Dichlorobenzidine | | | 1.5 | 0.3984538 | 3 | 0.3824482 | 7.5 | 0.3505851 | 15 | 0.3898354 | 30 | 0.4156977 |
| Chrysene | 0.2 | 1.309438 | 0.5 | 1.340026 | 1 | 1.324666 | 2.5 | 1.313268 | 5 | 1.301057 | 10 | 1.257001 |
| bis(2-Ethylhexyl)phthalate | 0.2 | 0.2771964 | 0.5 | 0.4163136 | 1 | 0.5178171 | 2.5 | 0.5875976 | 5 | 0.6111004 | 10 | 0.6066788 |
| Di-n-Octylphthalate | 0.2 | 1.130342 | 0.5 | 1.108771 | 1 | 1.078214 | 2.5 | 1.053578 | 5 | 1.030105 | 10 | 1.003981 |
| Benzo(a)fluoranthene, Total | 0.4 | 1.220533 | 1 | 1.298377 | 2 | 1.336417 | 5 | 1.333074 | 10 | 1.314562 | 20 | 1.314022 |
| Benzo(a)pyrene | 0.2 | 0.9171189 | 0.5 | 1.071898 | 1 | 1.162281 | 2.5 | 1.198935 | 5 | 1.198768 | 10 | 1.218204 |
| Indeno(1,2,3-cd)pyrene | 0.2 | 1.255079 | 0.5 | 1.371037 | 1 | 1.458575 | 2.5 | 1.486111 | 5 | 1.493749 | 10 | 1.483497 |
| Dibenzo(a,h)anthracene | 0.2 | 1.107204 | 0.5 | 1.187921 | 1 | 1.258994 | 2.5 | 1.263724 | 5 | 1.260832 | 10 | 1.236934 |
| Benzo(g,h,i)perylene | 0.2 | 1.132564 | 0.5 | 1.179862 | 1 | 1.239198 | 2.5 | 1.253183 | 5 | 1.282551 | 10 | 1.310346 |
| 1-Methylnaphthalene | 0.2 | 0.7079208 | 0.5 | 0.7417499 | 1 | 0.7538395 | 2.5 | 0.7368148 | 5 | 0.7454053 | 10 | 0.7302863 |
| 2-Fluorophenol | 0.3 | 0.768579 | 0.75 | 1.027907 | 1.5 | 1.080204 | 3.75 | 1.188474 | 7.5 | 1.212878 | 15 | 1.201549 |
| Phenol-d5 | 0.3 | 1.116046 | 0.75 | 1.437 | 1.5 | 1.649392 | 3.75 | 1.680687 | 7.5 | 1.699604 | 15 | 1.665092 |
| 2-Chlorophenol-d4 | 0.3 | 1.150171 | 0.75 | 1.247593 | 1.5 | 1.315558 | 3.75 | 1.330404 | 7.5 | 1.425007 | 15 | 1.387402 |
| 1,2-Dichlorobenzene-d4 | 0.2 | 1.068435 | 0.5 | 1.02134 | 1 | 1.031408 | 2.5 | 0.9880242 | 5 | 0.9664629 | 10 | 0.9422021 |
| Nitrobenzene-d5 | 0.2 | 0.2861053 | 0.5 | 0.3758358 | 1 | 0.4043639 | 2.5 | 0.4202334 | 5 | 0.4299529 | 10 | 0.4229284 |
| 2-Fluorobiphenyl | 0.2 | 1.571425 | 0.5 | 1.609126 | 1 | 1.647321 | 2.5 | 1.583435 | 5 | 1.525666 | 10 | 1.496187 |
| 2,4,6-Tribromophenol | 0.3 | 7.620459E-02 | 0.75 | 0.1425708 | 1.5 | 0.1721177 | 3.75 | 0.202397 | 7.5 | 0.2155528 | 15 | 0.2351124 |
| p-Terphenyl-d14 | 0.2 | 1.20646 | 0.5 | 1.28996 | 1 | 1.320784 | 2.5 | 1.284346 | 5 | 1.250936 | 10 | 1.177706 |



INITIAL CALIBRATION DATA
EPA 8270E

| | | | |
|-------------------|---------------------------|-------------|-----------------|
| Laboratory: | Analytical Resources, LLC | SDG: | 23A0180 |
| Client: | Anchor QEA, LLC | Project: | AOC5 MR Phase 1 |
| Calibration: | GC00033 | Instrument: | NT14 |
| Calibration Date: | 02/28/2023 | Column (1): | ZB-5MS |

Calibration Comments: 625.1/8270E ICAL

| Compound | Level 07 | | Level 08 | | Level 09 | | Level 10 | | Level 11 | | Level 12 | |
|------------------------------|----------|-----------|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|
| | Conc | RRF | Conc | RRF | Conc | RRF | Conc | RRF | Conc | RRF | Conc | RRF |
| Phenol | 20 | 1.641899 | | | | | | | | | | |
| bis(2-chloroethyl) ether | 20 | 1.137504 | | | | | | | | | | |
| 2-Chlorophenol | 20 | 1.329202 | | | | | | | | | | |
| 1,3-Dichlorobenzene | 20 | 1.34729 | | | | | | | | | | |
| 1,4-Dichlorobenzene | 20 | 1.399074 | | | | | | | | | | |
| 1,2-Dichlorobenzene | 20 | 1.266506 | | | | | | | | | | |
| Benzyl Alcohol | 20 | 0.8549296 | | | | | | | | | | |
| 2,2'-Oxybis(1-chloropropane) | 20 | 0.3665105 | | | | | | | | | | |
| 2-Methylphenol | 20 | 1.170822 | | | | | | | | | | |
| Hexachloroethane | 20 | 0.548717 | | | | | | | | | | |
| N-Nitroso-di-n-Propylamine | 20 | 0.9097233 | | | | | | | | | | |
| 4-Methylphenol | 20 | 1.248508 | | | | | | | | | | |
| Nitrobenzene | 20 | 0.3712075 | | | | | | | | | | |
| Isophorone | 20 | 0.5499657 | | | | | | | | | | |
| 2-Nitrophenol | 20 | 0.199669 | | | | | | | | | | |
| 2,4-Dimethylphenol | 40 | 0.3088879 | | | | | | | | | | |
| Bis(2-Chloroethoxy)methane | 20 | 0.3505514 | | | | | | | | | | |
| 2,4-Dichlorophenol | 40 | 0.2940726 | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | 20 | 0.3422966 | | | | | | | | | | |
| Naphthalene | 20 | 0.9588774 | | | | | | | | | | |
| Benzoic acid | 80 | 0.2292595 | | | | | | | | | | |
| 4-Chloroaniline | 40 | 0.4367766 | | | | | | | | | | |
| Hexachlorobutadiene | 20 | 0.2380499 | | | | | | | | | | |
| 4-Chloro-3-Methylphenol | 40 | 0.2982592 | | | | | | | | | | |
| 2-Methylnaphthalene | 20 | 0.7336603 | | | | | | | | | | |
| Hexachlorocyclopentadiene | 40 | 0.433422 | | | | | | | | | | |
| 2,4,6-Trichlorophenol | 40 | 0.4201979 | | | | | | | | | | |



INITIAL CALIBRATION DATA EPA 8270E

Laboratory: Analytical Resources, LLC
 Client: Anchor QEA, LLC
 Calibration: GC00033
 Calibration Date: 02/28/2023

SDG: 23A0180
 Project: AOC5 MR Phase 1
 Instrument: NT14
 Column (1): ZB-5MS

Calibration Comments: 625.1/8270E ICAL

| Compound | Level 07 | | Level 08 | | Level 09 | | Level 10 | | Level 11 | | Level 12 | |
|----------------------------|----------|-----------|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|
| | Conc | RRF | Conc | RRF | Conc | RRF | Conc | RRF | Conc | RRF | Conc | RRF |
| 2,4,5-Trichlorophenol | 40 | 0.4572974 | | | | | | | | | | |
| 2-Chloronaphthalene | 20 | 1.199775 | | | | | | | | | | |
| 2-Nitroaniline | 40 | 0.3319807 | | | | | | | | | | |
| Acenaphthylene | 20 | 1.689006 | | | | | | | | | | |
| Dimethylphthalate | 20 | 1.213126 | | | | | | | | | | |
| 2,6-Dinitrotoluene | 40 | 0.2848579 | | | | | | | | | | |
| Acenaphthene | 20 | 1.103319 | | | | | | | | | | |
| 3-Nitroaniline | 40 | 0.3191378 | | | | | | | | | | |
| 2,4-Dinitrophenol | 80 | 0.2385032 | | | | | | | | | | |
| Dibenzofuran | 20 | 1.766545 | | | | | | | | | | |
| 4-Nitrophenol | 40 | 0.172103 | | | | | | | | | | |
| 2,4-Dinitrotoluene | 40 | 0.4406328 | | | | | | | | | | |
| Fluorene | 20 | 1.391429 | | | | | | | | | | |
| 4-Chlorophenylphenyl ether | 20 | 0.7238567 | | | | | | | | | | |
| Diethyl phthalate | 20 | 1.169412 | | | | | | | | | | |
| 4-Nitroaniline | 40 | 0.3311615 | | | | | | | | | | |
| 4,6-Dinitro-2-methylphenol | 80 | 0.1390823 | | | | | | | | | | |
| N-Nitrosodiphenylamine | 20 | 0.4712783 | | | | | | | | | | |
| 4-Bromophenyl phenyl ether | 20 | 0.2270975 | | | | | | | | | | |
| Hexachlorobenzene | 20 | 0.2294677 | | | | | | | | | | |
| Pentachlorophenol | 40 | 0.14751 | | | | | | | | | | |
| Phenanthrene | 20 | 0.975533 | | | | | | | | | | |
| Anthracene | 20 | 1.002028 | | | | | | | | | | |
| Carbazole | 20 | 0.9050785 | | | | | | | | | | |
| Di-n-Butylphthalate | 20 | 1.060455 | | | | | | | | | | |
| Fluoranthene | 20 | 1.512933 | | | | | | | | | | |
| Pyrene | 20 | 1.524475 | | | | | | | | | | |



INITIAL CALIBRATION DATA
EPA 8270E

| | | | |
|-------------------|---------------------------|-------------|-----------------|
| Laboratory: | Analytical Resources, LLC | SDG: | 23A0180 |
| Client: | Anchor QEA, LLC | Project: | AOC5 MR Phase 1 |
| Calibration: | GC00033 | Instrument: | NT14 |
| Calibration Date: | 02/28/2023 | Column (1): | ZB-5MS |

Calibration Comments: 625.1/8270E ICAL

| Compound | Level 07 | | Level 08 | | Level 09 | | Level 10 | | Level 11 | | Level 12 | |
|-----------------------------|----------|-----------|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|
| | Conc | RRF | Conc | RRF | Conc | RRF | Conc | RRF | Conc | RRF | Conc | RRF |
| Butylbenzylphthalate | 20 | 0.5250842 | | | | | | | | | | |
| Benzo(a)anthracene | 20 | 1.072722 | | | | | | | | | | |
| 3,3'-Dichlorobenzidine | 60 | 0.3588605 | | | | | | | | | | |
| Chrysene | 20 | 1.169872 | | | | | | | | | | |
| bis(2-Ethylhexyl)phthalate | 20 | 0.5961258 | | | | | | | | | | |
| Di-n-Octylphthalate | 20 | 0.9672879 | | | | | | | | | | |
| Benzo(a)fluoranthene, Total | 40 | 1.232453 | | | | | | | | | | |
| Benzo(a)pyrene | 20 | 1.169502 | | | | | | | | | | |
| Indeno(1,2,3-cd)pyrene | 20 | 1.442668 | | | | | | | | | | |
| Dibenzo(a,h)anthracene | 20 | 1.169843 | | | | | | | | | | |
| Benzo(g,h,i)perylene | 20 | 1.315986 | | | | | | | | | | |
| 1-Methylnaphthalene | 20 | 0.6758541 | | | | | | | | | | |
| 2-Fluorophenol | 30 | 1.112686 | | | | | | | | | | |
| Phenol-d5 | 30 | 1.53155 | | | | | | | | | | |
| 2-Chlorophenol-d4 | 30 | 1.309599 | | | | | | | | | | |
| 1,2-Dichlorobenzene-d4 | 20 | 0.8824367 | | | | | | | | | | |
| Nitrobenzene-d5 | 20 | 0.3995827 | | | | | | | | | | |
| 2-Fluorobiphenyl | 20 | 1.464849 | | | | | | | | | | |
| 2,4,6-Tribromophenol | 30 | 0.2516705 | | | | | | | | | | |
| p-Terphenyl-d14 | 20 | 1.093348 | | | | | | | | | | |



INITIAL CALIBRATION DATA
EPA 8270E

| | | | |
|-----------------------|---------------------------|-------------|-----------------|
| Laboratory: | Analytical Resources, LLC | SDG: | 23A0180 |
| Client: | Anchor QEA, LLC | Project: | AOC5 MR Phase 1 |
| Calibration: | GC00033 | Instrument: | NT14 |
| Calibration Date: | 02/28/2023 | Column (1): | ZB-5MS |
| Calibration Comments: | 625.1/8270E ICAL | | |

| COMPOUND | Mean RRF | RRF RSD | Linear COD | Quad COD | Limit Type & Limit | Q |
|------------------------------|-----------|---------|------------|----------|--------------------|---|
| Phenol | 1.83735 | 7.6 | | | RSD (15) | |
| bis(2-chloroethyl) ether | 1.531255 | 45.1 | | 0.9997 | QCOD (0.99) | |
| 2-Chlorophenol | 1.353369 | 8.7 | | | RSD (15) | |
| 1,3-Dichlorobenzene | 1.491474 | 5.7 | | | RSD (15) | |
| 1,4-Dichlorobenzene | 1.47406 | 3.5 | | | RSD (15) | |
| 1,2-Dichlorobenzene | 1.413449 | 6.0 | | | RSD (15) | |
| Benzyl Alcohol | 0.6439892 | 35.8 | | 0.9992 | QCOD (0.99) | |
| 2,2'-Oxybis(1-chloropropane) | 0.3811859 | 3.0 | | | RSD (15) | |
| 2-Methylphenol | 1.160731 | 14.3 | | | RSD (15) | |
| Hexachloroethane | 0.5535732 | 3.8 | | | RSD (15) | |
| N-Nitroso-di-n-Propylamine | 0.8837751 | 11.2 | | | RSD (15) | |
| 4-Methylphenol | 1.135305 | 24.5 | | 0.9998 | QCOD (0.99) | |
| Nitrobenzene | 0.3760061 | 11.2 | | | RSD (15) | |
| Isophorone | 0.4996273 | 17.8 | | 0.9996 | QCOD (0.99) | |
| 2-Nitrophenol | 0.1467597 | 40.5 | | 0.9986 | QCOD (0.99) | |
| 2,4-Dimethylphenol | 0.3427845 | 9.3 | | | RSD (15) | |
| Bis(2-Chloroethoxy)methane | 0.3780235 | 9.8 | | | RSD (15) | |
| 2,4-Dichlorophenol | 0.2946235 | 19.3 | | 0.9999 | QCOD (0.99) | |
| 1,2,4-Trichlorobenzene | 0.3874001 | 6.6 | | | RSD (15) | |
| Naphthalene | 1.066958 | 5.7 | | | RSD (15) | |
| Benzoic acid | 0.1358415 | 53.2 | | | RSD (15) | * |
| 4-Chloroaniline | 0.4563565 | 5.3 | | | RSD (15) | |
| Hexachlorobutadiene | 0.2363916 | 4.7 | | | RSD (15) | |
| 4-Chloro-3-Methylphenol | 0.3085482 | 8.6 | | | RSD (15) | |
| 2-Methylnaphthalene | 0.7901196 | 4.6 | | | RSD (15) | |
| Hexachlorocyclopentadiene | 0.3443795 | 30.4 | | 0.9994 | QCOD (0.99) | |
| 2,4,6-Trichlorophenol | 0.3907367 | 10.7 | | | RSD (15) | |
| 2,4,5-Trichlorophenol | 0.4224702 | 13.5 | | | RSD (15) | |
| 2-Chloronaphthalene | 1.248028 | 2.8 | | | RSD (15) | |
| 2-Nitroaniline | 0.3254949 | 9.8 | | | RSD (15) | |



INITIAL CALIBRATION DATA

EPA 8270E

| | | | |
|-------------------|---------------------------|-------------|-----------------|
| Laboratory: | Analytical Resources, LLC | SDG: | 23A0180 |
| Client: | Anchor QEA, LLC | Project: | AOC5 MR Phase 1 |
| Calibration: | GC00033 | Instrument: | NT14 |
| Calibration Date: | 02/28/2023 | Column (1): | ZB-5MS |

Calibration Comments: 625.1/8270E ICAL

| COMPOUND | Mean RRF | RRF RSD | Linear COD | Quad COD | Limit Type & Limit | Q |
|----------------------------|--------------|---------|------------|----------|--------------------|---|
| Acenaphthylene | 1.831295 | 7.4 | | | RSD (15) | |
| Dimethylphthalate | 1.258157 | 9.7 | | | RSD (15) | |
| 2,6-Dinitrotoluene | 0.2948315 | 5.3 | | | RSD (15) | |
| Acenaphthene | 1.172493 | 3.5 | | | RSD (15) | |
| 3-Nitroaniline | 0.302181 | 10.6 | | | RSD (15) | |
| 2,4-Dinitrophenol | 0.1437811 | 58.1 | | 0.9944 | QCOD (0.99) | |
| Dibenzofuran | 1.865621 | 3.9 | | | RSD (15) | |
| 4-Nitrophenol | 0.1323756 | 27.7 | | 0.9981 | QCOD (0.99) | |
| 2,4-Dinitrotoluene | 0.4244424 | 7.5 | | | RSD (15) | |
| Fluorene | 1.571901 | 6.5 | | | RSD (15) | |
| 4-Chlorophenylphenyl ether | 0.8363665 | 7.4 | | | RSD (15) | |
| Diethyl phthalate | 1.176544 | 10.5 | | | RSD (15) | |
| 4-Nitroaniline | 0.299545 | 14.2 | | | RSD (15) | |
| 4,6-Dinitro-2-methylphenol | 9.751688E-02 | 49.9 | | 0.9988 | QCOD (0.99) | |
| N-Nitrosodiphenylamine | 0.5026629 | 6.9 | | | RSD (15) | |
| 4-Bromophenyl phenyl ether | 0.22099 | 5.9 | | | RSD (15) | |
| Hexachlorobenzene | 0.2429692 | 3.4 | | | RSD (15) | |
| Pentachlorophenol | 9.382634E-02 | 49.5 | | 0.9965 | QCOD (0.99) | |
| Phenanthrene | 1.064087 | 5.0 | | | RSD (15) | |
| Anthracene | 1.005958 | 8.8 | | | RSD (15) | |
| Carbazole | 0.8816605 | 6.5 | | | RSD (15) | |
| Di-n-Butylphthalate | 0.9469101 | 23.4 | | 0.9997 | QCOD (0.99) | |
| Fluoranthene | 1.517593 | 6.5 | | | RSD (15) | |
| Pyrene | 1.600033 | 6.2 | | | RSD (15) | |
| Butylbenzylphthalate | 0.4562763 | 27.9 | | 0.9996 | QCOD (0.99) | |
| Benzo(a)anthracene | 1.339902 | 10.2 | | | RSD (15) | |
| 3,3'-Dichlorobenzidine | 0.3826468 | 6.4 | | | RSD (15) | |
| Chrysene | 1.287904 | 4.5 | | | RSD (15) | |
| bis(2-Ethylhexyl)phthalate | 0.5161185 | 24.5 | | 0.9998 | QCOD (0.99) | |
| Di-n-Octylphthalate | 1.053183 | 5.5 | | | RSD (15) | |



INITIAL CALIBRATION DATA
EPA 8270E

| | | | |
|-----------------------|---------------------------|-------------|-----------------|
| Laboratory: | Analytical Resources, LLC | SDG: | 23A0180 |
| Client: | Anchor QEA, LLC | Project: | AOC5 MR Phase 1 |
| Calibration: | GC00033 | Instrument: | NT14 |
| Calibration Date: | 02/28/2023 | Column (1): | ZB-5MS |
| Calibration Comments: | 625.1/8270E ICAL | | |

| COMPOUND | Mean RRF | RRF RSD | Linear COD | Quad COD | Limit Type & Limit | Q |
|---------------------------|-----------|---------|------------|----------|--------------------|---|
| Benzofluoranthenes, Total | 1.292777 | 3.6 | | | RSD (15) | |
| Benzo(a)pyrene | 1.133815 | 9.4 | | | RSD (15) | |
| Indeno(1,2,3-cd)pyrene | 1.427245 | 6.1 | | | RSD (15) | |
| Dibenzo(a,h)anthracene | 1.212207 | 4.9 | | | RSD (15) | |
| Benzo(g,h,i)perylene | 1.244813 | 5.5 | | | RSD (15) | |
| 1-Methylnaphthalene | 0.7274101 | 3.7 | | | RSD (15) | |
| 2-Fluorophenol | 1.084611 | 14.3 | | | RSD (15) | |
| Phenol-d5 | 1.53991 | 13.6 | | | RSD (15) | |
| 2-Chlorophenol-d4 | 1.309391 | 6.9 | | | RSD (15) | |
| 1,2-Dichlorobenzene-d4 | 0.9857584 | 6.3 | | | RSD (15) | |
| Nitrobenzene-d5 | 0.3912861 | 12.7 | | | RSD (15) | |
| 2-Fluorobiphenyl | 1.556858 | 4.1 | | | RSD (15) | |
| 2,4,6-Tribromophenol | 0.1850894 | 32.7 | | 0.9994 | QCOD (0.99) | |
| p-Terphenyl-d14 | 1.231934 | 6.4 | | | RSD (15) | |



ANALYSIS SEQUENCE

SLB0374

Instrument ID: NT14 GCMS Description: Agilent 7890A/5975C XL
 Calibration ID: GC00033 GCMS Column ID: L001045
 MS EM Level: 1706 EV

| Lab Number | Sample Name | Analysis | Container | Order | STD ID | ISTD ID | Analyzed | File ID | Analyst | Comments |
|--------------|-------------------|-----------------------------|-----------|-------|---------|---------|------------------|----------------|---------|----------|
| SLB0374-TUN1 | MS Tune | QC | | 1 | K004775 | | 02/28/2023 11:26 | NT1423022801.D | JGR | |
| SLB0374-CAL7 | CAL 20 | QC | | 2 | K011111 | K010831 | 02/28/2023 11:39 | NT1423022802.D | JGR | |
| SLB0374-CAL6 | CAL 10 | QC | | 3 | K011110 | K010831 | 02/28/2023 12:15 | NT1423022803.D | JGR | |
| SLB0374-CAL5 | CAL 5 | QC | | 4 | K011109 | K010831 | 02/28/2023 12:51 | NT1423022804.D | JGR | |
| SLB0374-CAL4 | CAL 2.5 | QC | | 5 | K011108 | K010831 | 02/28/2023 13:28 | NT1423022805.D | JGR | |
| SLB0374-CAL3 | CAL 1.0 | QC | | 6 | K011107 | K010831 | 02/28/2023 14:04 | NT1423022806.D | JGR | |
| SLB0374-CAL2 | CAL 0.5 | QC | | 7 | K011106 | K010831 | 02/28/2023 14:40 | NT1423022807.D | JGR | |
| SLB0374-CAL1 | CAL 0.2 | QC | | 8 | K011105 | K010831 | 02/28/2023 15:16 | NT1423022808.D | JGR | |
| SLB0374-SCV1 | SCV 5.0 | QC | | 9 | K010066 | K010831 | 02/28/2023 17:41 | NT1423022812.D | JGR | |
| SLB0374-ICB1 | Initial Cal Blank | QC | | 10 | K005156 | K010831 | 02/28/2023 17:04 | NT1423022811.D | JGR | |
| SLB0374-ICV1 | ABN 5 | QC | | 11 | K011109 | K010831 | 03/01/2023 08:50 | NT1423022813.D | JGR | |
| SLB0374-ICV2 | ABN 5 | QC | | 12 | K011109 | K010831 | 03/01/2023 13:39 | NT1423022821.D | JGR | |
| SLB0374-LCV1 | ABN 0.2 | QC | | 13 | K011105 | K010831 | 03/01/2023 14:51 | NT1423022823.D | JGR | |
| SLB0374-LCV2 | ABN 0.5 | QC | | 14 | K011106 | K010831 | 03/01/2023 16:04 | NT1423022825.D | JGR | |
| BLA0557-BLK1 | Blank | QC | | 15 | | K010831 | 03/01/2023 16:40 | NT1423022826.D | JGR | |
| BLA0557-BS1 | LCS | QC | | 16 | | K010831 | 03/01/2023 17:16 | NT1423022827.D | JGR | |
| BLA0557-BSD1 | LCS Dup | QC | | 17 | | K010831 | 03/01/2023 17:52 | NT1423022828.D | JGR | |
| BLA0557-SRM1 | Reference | QC | | 18 | | K010831 | 03/01/2023 18:28 | NT1423022829.D | JGR | |
| 23A0179-01 | LDW23-SS1277 | (20ug/kg solid or 0.2ug/L l | A 02 | 19 | | K010831 | 03/01/2023 19:04 | NT1423022830.D | JGR | |
| 23A0179-02 | LDW23-SS1271 | (20ug/kg solid or 0.2ug/L l | A 02 | 20 | | K010831 | 03/01/2023 19:40 | NT1423022831.D | JGR | |
| 23A0179-03 | LDW23-SS1266 | (20ug/kg solid or 0.2ug/L l | A 02 | 21 | | K010831 | 03/01/2023 20:16 | NT1423022832.D | JGR | |
| 23A0179-04 | LDW23-SS1248 | (20ug/kg solid or 0.2ug/L l | A 02 | 22 | | K010831 | 03/01/2023 20:52 | NT1423022833.D | JGR | |



ANALYSIS SEQUENCE

SLB0374

Instrument ID: NT14 GCMS Description: Agilent 7890A/5975C XL
Calibration ID: GC00033 GCMS Column ID: L001045
MS EM Level: 1706 EV

| Lab Number | Sample Name | Analysis | Container | Order | STD ID | ISTD ID | Analyzed | File ID | Analyst | Comments |
|--------------|-------------------|----------------------------|-----------|-------|---------|---------|------------------|----------------|---------|----------|
| 23A0179-05 | LDW23-SS1239 | 20ug/kg solid or 0.2ug/L l | A 02 | 23 | | K010831 | 03/01/2023 21:28 | NT1423022834.D | JGR | |
| 23A0179-06 | LDW23-SS1213 | 20ug/kg solid or 0.2ug/L l | A 02 | 24 | | K010831 | 03/01/2023 22:04 | NT1423022835.D | JGR | |
| SLB0374-ICV3 | ABN 5 | QC | | 25 | K011109 | K010831 | 03/01/2023 22:40 | NT1423022836.D | JGR | |
| SLB0374-LCV3 | ABN 0.2 | QC | | 26 | K011105 | K010831 | 03/01/2023 23:52 | NT1423022838.D | JGR | |
| SLB0374-LCV4 | ABN 0.5 | QC | | 27 | K011106 | K010831 | 03/02/2023 00:28 | NT1423022839.D | JGR | |
| 23A0179-07 | LDW23-SS1200 | 20ug/kg solid or 0.2ug/L l | A 02 | 28 | | K010831 | 03/02/2023 01:03 | NT1423022840.D | JGR | |
| 23A0179-08 | LDW23-SS1178 | 20ug/kg solid or 0.2ug/L l | A 02 | 29 | | K010831 | 03/02/2023 01:39 | NT1423022841.D | JGR | |
| 23A0179-11 | LDW23-SS1039 | 20ug/kg solid or 0.2ug/L l | A 02 | 30 | | K010831 | 03/02/2023 02:15 | NT1423022842.D | JGR | |
| 23A0179-12 | LDW23-SS1007 | 20ug/kg solid or 0.2ug/L l | A 02 | 31 | | K010831 | 03/02/2023 02:51 | NT1423022843.D | JGR | |
| 23A0180-01 | LDW23-SC1164 | 20ug/kg solid or 0.2ug/L l | A 02 | 32 | | K010831 | 03/02/2023 03:27 | NT1423022844.D | JGR | |
| 23A0180-02 | LDW23-SC1164-FD | 20ug/kg solid or 0.2ug/L l | A 02 | 33 | | K010831 | 03/02/2023 04:03 | NT1423022845.D | JGR | |
| 23A0180-03 | LDW23-SC1158 | 20ug/kg solid or 0.2ug/L l | A 02 | 34 | | K010831 | 03/02/2023 04:39 | NT1423022846.D | JGR | |
| 23A0180-04 | LDW23-SC1151 | 20ug/kg solid or 0.2ug/L l | A 02 | 35 | | K010831 | 03/02/2023 05:15 | NT1423022847.D | JGR | |
| SLB0374-ICV4 | ABN 5 | QC | | 36 | K011109 | K010831 | 03/02/2023 05:52 | NT1423022848.D | JGR | |
| SLB0374-LCV5 | ABN 0.2 | QC | | 37 | K011105 | K010831 | 03/02/2023 07:04 | NT1423022850.D | JGR | |
| SLB0374-LCV6 | ABN 0.5 | QC | | 38 | K011106 | K010831 | 03/02/2023 07:40 | NT1423022851.D | JGR | |
| 23A0179-09 | LDW23-SS1171 | 20ug/kg solid or 0.2ug/L l | A 02 | 39 | | K010831 | 03/02/2023 08:16 | NT1423022852.D | JGR | |
| 23A0179-10 | LDW23-SS1112 | 20ug/kg solid or 0.2ug/L l | A 02 | 40 | | K010831 | 03/02/2023 08:53 | NT1423022853.D | JGR | |
| BLA0557-MS1 | Matrix Spike | QC | | 41 | | K010831 | 03/02/2023 09:29 | NT1423022854.D | JGR | |
| BLA0557-MSD1 | Matrix Spike Dup | QC | | 42 | | K010831 | 03/02/2023 10:05 | NT1423022855.D | JGR | |
| SLB0374-CCV1 | Calibration Check | QC | | 43 | K011109 | K010831 | 03/02/2023 10:41 | NT1423022856.D | JGR | |

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20230228.b

| Time | Filename | LabID | ClientId | DF | | | | | | | | | | | | | | |
|------|----------|----------------|--------------|----|----------------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|
| 1 | 1126 | NT1423022801.D | SLB0374-TUN1 | 1 | NO ISTDs FOUND | | | | | | | | | | | | | |
| 2 | 1139 | NT1423022802.D | SLB0374-CAL7 | 1 | 8.22 | 113367 | 10.67 | 424117 | 14.26 | 251095 | 17.27 | 497175 | 22.38 | 380267 | 24.73 | 372957 | 23.49 | 489751 |
| 3 | 1215 | NT1423022803.D | SLB0374-CAL6 | 1 | 8.21 | 109658 | 10.67 | 398074 | 14.26 | 245951 | 17.26 | 485216 | 22.38 | 380106 | 24.72 | 359407 | 23.48 | 493409 |
| 4 | 1251 | NT1423022804.D | SLB0374-CAL5 | 1 | 8.21 | 114351 | 10.67 | 408655 | 14.25 | 254000 | 17.25 | 490626 | 22.38 | 390400 | 24.72 | 375675 | 23.48 | 500829 |
| 5 | 1328 | NT1423022805.D | SLB0374-CAL4 | 1 | 8.21 | 113228 | 10.67 | 405310 | 14.25 | 245142 | 17.25 | 485508 | 22.37 | 392724 | 24.71 | 375073 | 23.48 | 485486 |
| 6 | 1404 | NT1423022806.D | SLB0374-CAL3 | 1 | 8.21 | 117168 | 10.67 | 418158 | 14.25 | 252184 | 17.25 | 495615 | 22.37 | 397673 | 24.71 | 383322 | 23.48 | 469239 |
| 7 | 1440 | NT1423022807.D | SLB0374-CAL2 | 1 | 8.22 | 126289 | 10.67 | 445088 | 14.25 | 268255 | 17.25 | 528369 | 22.37 | 429353 | 24.72 | 418883 | 23.48 | 491860 |
| 8 | 1516 | NT1423022808.D | SLB0374-CAL1 | 1 | 8.21 | 113699 | 10.67 | 400412 | 14.25 | 237606 | 17.25 | 464964 | 22.36 | 366875 | 24.72 | 354894 | 23.48 | 382256 |
| 9 | 1552 | NT1423022809.D | SLB0375-CAL2 | 1 | 8.21 | 121492 | 10.67 | 422553 | 14.25 | 248357 | 17.25 | 490951 | 22.36 | 403914 | 24.71 | 390908 | 23.48 | 418382 |
| 10 | 1628 | NT1423022810.D | SLB0375-CAL1 | 1 | 8.21 | 114265 | 10.66 | 405698 | 14.25 | 238126 | 17.25 | 464234 | 22.36 | 368456 | 24.72 | 361000 | 23.48 | 374202 |
| 11 | 1704 | NT1423022811.D | SLB0374-ICB1 | 1 | 8.21 | 117167 | 10.66 | 407027 | 14.24 | 239853 | 17.25 | 473405 | 22.36 | 364221 | 24.71 | 358535 | 23.48 | 366453 |
| 12 | 1741 | NT1423022812.D | SLB0374-SCV1 | 1 | 8.21 | 105595 | 10.67 | 379346 | 14.25 | 230482 | 17.25 | 458109 | 22.37 | 351284 | 24.71 | 336637 | 23.48 | 422614 |
| 13 | 0850 | NT1423022813.D | SLB0374-ICV1 | 1 | 8.19 | 130493 | 10.64 | 468517 | 14.23 | 287099 | 17.24 | 562063 | 22.35 | 437959 | 24.70 | 412943 | 23.47 | 562397 |
| 14 | 0926 | NT1423022814.D | SLB0374-ICV2 | 1 | 8.19 | 121368 | 10.64 | 435125 | 14.22 | 258208 | 17.23 | 509895 | 22.35 | 402908 | 24.69 | 386677 | 23.46 | 463321 |
| 15 | 1002 | NT1423022815.D | SLB0374-IBL1 | 1 | 8.19 | 112285 | 10.64 | 401456 | 14.23 | 248381 | 17.23 | 490071 | 22.35 | 382855 | 24.70 | 358877 | 23.47 | 475658 |
| 16 | 1039 | NT1423022816.D | 23A0134-12 | 1 | 8.19 | 163816 | 10.64 | 584308 | 14.23 | 345158 | 17.24 | 639221 | 22.36 | 496464 | 24.71 | 637348 | 23.48 | 751371 |
| 17 | 1115 | NT1423022817.D | 23A0134-13 | 1 | 8.19 | 145235 | 10.64 | 527217 | 14.23 | 301577 | 17.25 | 565289 | 22.39 | 445240 | 24.77 | 393072 | 23.50 | 531926 |
| 18 | 1151 | NT1423022818.D | BLA0410-MS1 | 1 | 8.19 | 122256 | 10.65 | 431740 | 14.24 | 256989 | 17.25 | 480982 | 22.41 | 379908 | 24.78 | 288883 | 23.51 | 422602 |
| 19 | 1227 | NT1423022819.D | BLA0410-MSD1 | 1 | 8.19 | 115160 | 10.65 | 407447 | 14.24 | 243692 | 17.25 | 448530 | 22.40 | 375694 | 24.78 | 292934 | 23.51 | 436267 |
| 20 | 1303 | NT1423022820.D | 23A0134-15 | 1 | 8.19 | 123533 | 10.65 | 442879 | 14.23 | 256586 | 17.25 | 473488 | 22.38 | 423862 | 24.74 | 428289 | 23.48 | 605691 |

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20230228.b

| Time | Filename | LabID | ClientID | DF | | | | | | | | | | | |
|------|----------|----------------|------------------|----|---|--|------|---------------|---------------|---------------|---------------|---------------|---------------|--------|--|
| 21 | 1339 | NT1423022821.D | SLB0374-ICV2 | | 1 | | 8.19 | 125853 10.65 | 454961 14.23 | 273779 17.24 | 520384 22.36 | 399183 24.71 | 478887 23.47 | 602810 | |
| 22 | 1415 | NT1423022822.D | SLB0374-CCV2 | | 1 | | 8.19 | 113379 10.65 | 412348 14.23 | 239323 17.24 | 447754 22.36 | 329136 24.71 | 411253 23.47 | 499022 | |
| 23 | 1451 | NT1423022823.D | SLB0374-LCV1 | | 1 | | 8.19 | 114717 10.65 | 407764 14.23 | 232149 17.24 | 434349 22.36 | 321275 24.71 | 396889 23.47 | 479418 | |
| 24 | 1527 | NT1423022824.D | SLB0374-LCV2-sim | | 1 | | 8.19 | 114478 10.65 | 407756 14.23 | 229888 17.24 | 431838 22.35 | 320335 24.71 | 390425 23.47 | 465252 | |
| 25 | 1604 | NT1423022825.D | SLB0374-LCV2 | | 1 | | 8.19 | 130297 10.64 | 458645 14.23 | 264644 17.24 | 503378 22.36 | 366987 24.71 | 433681 23.47 | 534079 | |
| 26 | 1640 | NT1423022826.D | BLA0557-BLK1 | | 1 | | 8.19 | 119737 10.64 | 429209 14.23 | 246224 17.24 | 459727 22.36 | 327323 24.71 | 397979 23.47 | 489283 | |
| 27 | 1716 | NT1423022827.D | BLA0557-BS1 | | 1 | | 8.19 | 115317 10.65 | 411740 14.23 | 247058 17.24 | 455912 22.36 | 347971 24.71 | 413395 23.47 | 520496 | |
| 28 | 1752 | NT1423022828.D | BLA0557-BSD1 | | 1 | | 8.19 | 113200 10.65 | 411152 14.23 | 242424 17.24 | 456525 22.36 | 343644 24.71 | 400872 23.47 | 509245 | |
| 29 | 1828 | NT1423022829.D | BLA0557-SRM1 | | 1 | | 8.19 | 118527 10.64 | 431802 14.23 | 245761 17.24 | 473833 22.36 | 346329 24.71 | 414695 23.47 | 532201 | |
| 30 | 1904 | NT1423022830.D | 23A0179-01 | | 1 | | 8.19 | 119238 10.64 | 432560 14.23 | 248523 17.24 | 466029 22.36 | 374382 24.72 | 421669 23.48 | 560278 | |
| 31 | 1940 | NT1423022831.D | 23A0179-02 | | 1 | | 8.19 | 119277 10.64 | 432454 14.23 | 252217 17.25 | 481102 22.37 | 372794 24.72 | 416230 23.48 | 566258 | |
| 32 | 2016 | NT1423022832.D | 23A0179-03 | | 1 | | 8.19 | 115524 10.65 | 421103 14.23 | 239203 17.25 | 458791 22.37 | 370872 24.72 | 393621 23.48 | 549356 | |
| 33 | 2052 | NT1423022833.D | 23A0179-04 | | 1 | | 8.19 | 116979 10.65 | 423995 14.23 | 244587 17.25 | 462250 22.37 | 384116 24.73 | 379708 23.48 | 562558 | |
| 34 | 2128 | NT1423022834.D | 23A0179-05 | | 1 | | 8.19 | 112666 10.65 | 413748 14.23 | 238289 17.25 | 453532 22.37 | 360184 24.72 | 366272 23.48 | 547319 | |
| 35 | 2204 | NT1423022835.D | 23A0179-06 | | 1 | | 8.19 | 110602 10.65 | 406761 14.23 | 233719 17.25 | 442539 22.38 | 371233 24.73 | 341558 23.48 | 549387 | |
| 36 | 2240 | NT1423022836.D | SLB0374-ICV3 | | 1 | | 8.20 | 115350 10.65 | 415895 14.24 | 246020 17.25 | 448598 22.37 | 373978 24.71 | 357819 23.48 | 541572 | |
| 37 | 2316 | NT1423022837.D | SLB0374-CCV4 | | 1 | | 8.20 | 101302 10.65 | 365654 14.23 | 208218 17.24 | 380917 22.36 | 308390 24.72 | 291479 23.47 | 448418 | |
| 38 | 2352 | NT1423022838.D | SLB0374-LCV3 | | 1 | | 8.20 | 114387 10.65 | 404965 14.23 | 227510 17.25 | 416834 22.36 | 340670 24.71 | 315652 23.47 | 485089 | |
| 39 | 0028 | NT1423022839.D | SLB0374-LCV4 | | 1 | | 8.19 | 113866 10.65 | 401641 14.23 | 232085 17.24 | 421769 22.36 | 338375 24.72 | 315661 23.47 | 478625 | |
| 40 | 0103 | NT1423022840.D | 23A0179-07 | | 1 | | 8.19 | 113345 10.65 | 407490 14.23 | 237925 17.25 | 446581 22.37 | 349621 24.72 | 323654 23.48 | 514994 | |
| 41 | 0139 | NT1423022841.D | 23A0179-08 | | 1 | | 8.20 | 110627 10.65 | 415675 14.24 | 236007 17.25 | 446361 22.38 | 373421 24.73 | 329916 23.48 | 555260 | |

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20230228.b

| Time | Filename | LabID | ClientId | DF | | | | | | | | | | |
|------|----------|----------------|--------------|----|--|------|---------------|---------------|---------------|---------------|---------------|---------------|--------|--|
| 42 | 0215 | NT1423022842.D | 23A0179-11 | 1 | | 8.20 | 111897 10.65 | 409099 14.24 | 236278 17.25 | 442785 22.38 | 383564 24.74 | 309313 23.48 | 565245 | |
| 43 | 0251 | NT1423022843.D | 23A0179-12 | 1 | | 8.20 | 109867 10.65 | 405952 14.24 | 230944 17.25 | 437765 22.38 | 374619 24.74 | 314304 23.48 | 548577 | |
| 44 | 0327 | NT1423022844.D | 23A0180-01 | 1 | | 8.20 | 111445 10.66 | 403002 14.24 | 231049 17.25 | 436923 22.39 | 383047 24.75 | 281715 23.49 | 532671 | |
| 45 | 0403 | NT1423022845.D | 23A0180-02 | 1 | | 8.20 | 110517 10.66 | 404153 14.24 | 231072 17.25 | 432633 22.39 | 374504 24.75 | 278246 23.49 | 536189 | |
| 46 | 0439 | NT1423022846.D | 23A0180-03 | 1 | | 8.20 | 121220 10.66 | 444463 14.25 | 254449 17.26 | 481686 22.38 | 413576 24.75 | 299632 23.49 | 605703 | |
| 47 | 0515 | NT1423022847.D | 23A0180-04 | 1 | | 8.21 | 108875 10.66 | 401293 14.25 | 227418 17.26 | 428058 22.39 | 375926 24.75 | 255600 23.49 | 545489 | |
| 48 | 0552 | NT1423022848.D | SLB0374-ICV4 | 1 | | 8.21 | 116519 10.67 | 429090 14.25 | 250637 17.25 | 458117 22.38 | 393468 24.73 | 283320 23.48 | 572636 | |
| 49 | 0628 | NT1423022849.D | SLB0374-CCV6 | 1 | | 8.21 | 100165 10.66 | 356839 14.25 | 204998 17.25 | 370142 22.38 | 313377 24.72 | 217355 23.48 | 453092 | |
| 50 | 0704 | NT1423022850.D | SLB0374-LCV5 | 1 | | 8.21 | 115459 10.66 | 409877 14.25 | 230328 17.25 | 417754 22.38 | 352830 24.73 | 239484 23.48 | 499736 | |
| 51 | 0740 | NT1423022851.D | SLB0374-LCV6 | 1 | | 8.21 | 111416 10.66 | 403388 14.25 | 226130 17.25 | 411120 22.37 | 340331 24.72 | 240961 23.48 | 479730 | |
| 52 | 0816 | NT1423022852.D | 23A0179-09 | 10 | | 8.21 | 107119 10.66 | 388462 14.24 | 221798 17.25 | 408625 22.37 | 328051 24.73 | 258014 23.48 | 495620 | |
| 53 | 0853 | NT1423022853.D | 23A0179-10 | 10 | | 8.21 | 108921 10.66 | 388732 14.24 | 222640 17.25 | 407717 22.38 | 337194 24.73 | 247492 23.48 | 490020 | |
| 54 | 0929 | NT1423022854.D | BLA0557-MS1 | 10 | | 8.20 | 108236 10.66 | 386639 14.24 | 219298 17.25 | 399312 22.37 | 325344 24.72 | 222525 23.48 | 476401 | |
| 55 | 1005 | NT1423022855.D | BLA0557-MSD1 | 10 | | 8.20 | 107306 10.66 | 387922 14.24 | 222307 17.25 | 411647 22.37 | 322410 24.72 | 228505 23.48 | 482430 | |
| 56 | 1041 | NT1423022856.D | SLB0374-CCV7 | 1 | | 8.21 | 125192 10.66 | 458907 14.25 | 271560 17.25 | 498585 22.38 | 404214 24.72 | 284657 23.48 | 582020 | |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20230228.b

Instrument: nt14.i Date: 28-FEB-2023

| Time | Filename | LabID | DF | Manually Integrated Compounds |
|------|----------------|--------------|----|---|
| 1126 | NT1423022801.D | SLB0374-TUN1 | 1 | NO MANUAL INTEGRATION |
| 1139 | NT1423022802.D | SLB0374-CAL7 | 1 | 2,2'-oxybis(1-Chloropropane), Isophorone, Benzoic acid, |
| 1215 | NT1423022803.D | SLB0374-CAL6 | 1 | Benzoic acid, |
| 1251 | NT1423022804.D | SLB0374-CAL5 | 1 | NO MANUAL INTEGRATION |
| 1328 | NT1423022805.D | SLB0374-CAL4 | 1 | Benzoic acid, |
| 1404 | NT1423022806.D | SLB0374-CAL3 | 1 | Benzoic acid, 2,4-Dinitrophenol, 4-Nitrophenol, Pentachlorophenol, |
| 1440 | NT1423022807.D | SLB0374-CAL2 | 1 | Benzyl alcohol, 2,4-Dinitrophenol, 4-Nitrophenol, 4,6-Dinitro-2-methylphenol, Pentachlorophenol, Pyridine, 2-Fluorophenol, |
| 1516 | NT1423022808.D | SLB0374-CAL1 | 1 | Phenol, Bis(2-Chloroethyl)ether, 2-Chlorophenol, Benzyl alcohol, N-Nitroso-di-n-propylamine, 2-Nitrophenol, 4-Chloroaniline, 2,4,5-Trichlorophenol, 3-Nitroaniline, 4-Nitroaniline, 4,6-Dinitro-2-methylphenol, N-2,3,4,6-Tetrachlorophenol, 2-Fluorophenol, 2-Chlorophenol-d4, 2,4,6-Tribromophenol, |
| 1552 | NT1423022809.D | SLB0375-CAL2 | 1 | NO MANUAL INTEGRATION |
| 1628 | NT1423022810.D | SLB0375-CAL1 | 1 | NO MANUAL INTEGRATION |
| 1704 | NT1423022811.D | SLB0374-ICB1 | 1 | NO MANUAL INTEGRATION |
| 1741 | NT1423022812.D | SLB0374-SCV1 | 1 | Benzoic acid, Pentachlorophenol, |
| 0850 | NT1423022813.D | SLB0374-ICV1 | 1 | NO MANUAL INTEGRATION |
| 0926 | NT1423022814.D | SLB0374-ICV2 | 1 | NO MANUAL INTEGRATION |
| 1002 | NT1423022815.D | SLB0374-IBL1 | 1 | NO MANUAL INTEGRATION |
| 1039 | NT1423022816.D | 23A0134-12 | 1 | Benzoic acid, bis(2-Ethylhexyl)phthalate, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, |
| 1115 | NT1423022817.D | 23A0134-13 | 1 | Benzoic acid, Di-n-octylphthalate, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, |

Instrument: nt14.i Date: 01-MAR-2023

| Time | Filename | LabID | DF | Manually Integrated Compounds |
|------|----------------|------------------|----|---|
| 1151 | NT1423022818.D | BLA0410-MS1 | 1 | 3,3'-Dichlorobenzidine, Di-n-octylphthalate, |
| 1227 | NT1423022819.D | BLA0410-MSD1 | 1 | Di-n-octylphthalate, |
| 1303 | NT1423022820.D | 23A0134-15 | 1 | 2,4-Dimethylphenol, 4-Chlorophenyl-phenylether, Dibenzo(a,h)anthracene, Total Benzofluoranthenes, |
| 1339 | NT1423022821.D | SLB0374-ICV2 | 1 | 2,2'-oxybis(1-Chloropropane), |
| 1415 | NT1423022822.D | SLB0374-CCV2 | 1 | NO MANUAL INTEGRATION |
| 1451 | NT1423022823.D | SLB0374-LCV1 | 1 | Phenol, Benzyl alcohol, 2,2'-oxybis(1-Chloropropane), 2-Nitrophenol, 4-Nitroaniline, 4,6-Dinitro-2-methylpheno Pentachlorophenol, Pyridine, 2,3,4,6-Tetrachlorophenol, |
| 1527 | NT1423022824.D | SLB0374-LCV2-sim | 1 | NO MANUAL INTEGRATION |
| 1604 | NT1423022825.D | SLB0374-LCV2 | 1 | 2,2'-oxybis(1-Chloropropane), Benzoic acid, 3-Nitroaniline, 2,4-Dinitrophenol, 4-Nitrophenol, Pentachloropheno |
| 1640 | NT1423022826.D | BLA0557-BLK1 | 1 | NO MANUAL INTEGRATION |
| 1716 | NT1423022827.D | BLA0557-BS1 | 1 | NO MANUAL INTEGRATION |
| 1752 | NT1423022828.D | BLA0557-BSD1 | 1 | NO MANUAL INTEGRATION |
| 1828 | NT1423022829.D | BLA0557-SRM1 | 1 | Benzoic acid, |
| 1904 | NT1423022830.D | 23A0179-01 | 1 | 1,4-Dichlorobenzene, Benzyl alcohol, 2-Methylphenol, Dibenzo(a,h)anthracene, Total Benzofluoranthenes, |
| 1940 | NT1423022831.D | 23A0179-02 | 1 | Benzoic acid, Dibenzo(a,h)anthracene, Total Benzofluoranthenes, |
| 2016 | NT1423022832.D | 23A0179-03 | 1 | Benzyl alcohol, Benzoic acid, Dibenzo(a,h)anthracene, Total Benzofluoranthenes, |
| 2052 | NT1423022833.D | 23A0179-04 | 1 | Benzoic acid, Dibenzo(a,h)anthracene, Total Benzofluoranthenes, |
| 2128 | NT1423022834.D | 23A0179-05 | 1 | Benzoic acid, Total Benzofluoranthenes, |
| 2204 | NT1423022835.D | 23A0179-06 | 1 | Benzoic acid, Dibenzo(a,h)anthracene, Total Benzofluoranthenes, |

Instrument: nt14.i Date: 01-MAR-2023

| Time | Filename | LabID | DF | Manually Integrated Compounds |
|------|----------------|--------------|----|--|
| 2240 | NT1423022836.D | SLB0374-ICV3 | 1 | NO MANUAL INTEGRATION |
| 2316 | NT1423022837.D | SLB0374-CCV4 | 1 | NO MANUAL INTEGRATION |
| 2352 | NT1423022838.D | SLB0374-LCV3 | 1 | Phenol, Benzyl alcohol, 2-Nitrophenol, 2,4-Dichlorophenol, Benzoic acid, 4-Chloroaniline, 4-Chloro-3-methylphenol, 2,4,5-Trichlorophenol, 3-Nitroaniline, 4-Nitrophenol, 4-Nitroaniline, 4,6-Di-Pentachlorophenol, Benzidine, Pyridine, 2,3,4,6-Tetrachlorophenol, 2-Fluorophenol, Phenol-d5, 2,4, |
| 0028 | NT1423022839.D | SLB0374-LCV4 | 1 | Benzyl alcohol, Benzoic acid, 2,4-Dinitrophenol, 4-Nitrophenol, Pentachlorophenol, |
| 0103 | NT1423022840.D | 23A0179-07 | 1 | 2-Methylphenol, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Total Benzofluoranthenes, |
| 0139 | NT1423022841.D | 23A0179-08 | 1 | Benzoic acid, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Total Benzofluoranthenes, |
| 0215 | NT1423022842.D | 23A0179-11 | 1 | Benzyl alcohol, 2-Methylphenol, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Total Benzofluoranthenes, |
| 0251 | NT1423022843.D | 23A0179-12 | 1 | Benzyl alcohol, Benzoic acid, Dibenzo(a,h)anthracene, Total Benzofluoranthenes, |
| 0327 | NT1423022844.D | 23A0180-01 | 1 | Benzoic acid, Dibenzo(a,h)anthracene, |
| 0403 | NT1423022845.D | 23A0180-02 | 1 | Benzoic acid, Dibenzo(a,h)anthracene, |
| 0439 | NT1423022846.D | 23A0180-03 | 1 | Benzoic acid, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Total Benzofluoranthenes, |
| 0515 | NT1423022847.D | 23A0180-04 | 1 | Benzoic acid, Dibenzo(a,h)anthracene, |
| 0552 | NT1423022848.D | SLB0374-ICV4 | 1 | 2,2'-oxybis(1-Chloropropane), |
| 0628 | NT1423022849.D | SLB0374-CCV6 | 1 | NO MANUAL INTEGRATION |
| 0704 | NT1423022850.D | SLB0374-LCV5 | 1 | Benzyl alcohol, 2,4-Dichlorophenol, 4-Chloroaniline, 2,4,5-Trichlorophenol, 3-Nitroaniline, 4-Nitroaniline, 4,6-Dinitro-2-methylphenol, Pentachlorophenol, N-Nitrosodimethylamine, Benzidine, Pyridine, |
| 0740 | NT1423022851.D | SLB0374-LCV6 | 1 | Benzyl alcohol, 2,2'-oxybis(1-Chloropropane), 2-Nitrophenol, Benzoic acid, Hexachlorocyclopentadiene, 2,4-Dini-4-Nitrophenol, Pentachlorophenol, 2,3,4,6-Tetrachlorophenol, |
| 0816 | NT1423022852.D | 23A0179-09 | 10 | Benzo(k)fluoranthene, |
| 0853 | NT1423022853.D | 23A0179-10 | 10 | NO MANUAL INTEGRATION |

Instrument: nt14.i Date: 02-MAR-2023

| Time | Filename | LabID | DF | Manually Integrated Compounds |
|------|----------------|--------------|----|---|
| 0929 | NT1423022854.D | BLA0557-MS1 | 10 | Benzyl alcohol, Benzoic acid, 4-Chloroaniline, 2,4-Dinitrophenol, |
| 1005 | NT1423022855.D | BLA0557-MSD1 | 10 | Benzyl alcohol, Benzoic acid, 4-Chloroaniline, 2,4-Dinitrophenol, 4-Nitrophenol, Pentachlorophenol, |
| 1041 | NT1423022856.D | SLB0374-CCV7 | 1 | 2,2'-oxybis(1-Chloropropane), Benzoic acid, |

Security Status Report

Date: 14-Mar-2023 09:37

| | | | | |
|----------------|-------------|------|-------------|-------|
| NT1423022801.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022802.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022803.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022804.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022805.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022806.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022807.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022808.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022809.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022810.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022811.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022812.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022813.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022814.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022815.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022816.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022817.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022818.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022819.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022820.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022821.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022822.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022823.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022824.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022825.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022826.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022827.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022828.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022829.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022830.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022831.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022832.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022833.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022834.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022835.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022836.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022837.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022838.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022839.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022840.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022841.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022842.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022843.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022844.D | Data Locked | van, | 14-Mar-2023 | 09:37 |

| | | |
|----------------|-------------|------------------------|
| NT1423022845.D | Data Locked | van, 14-Mar-2023 09:37 |
| NT1423022846.D | Data Locked | van, 14-Mar-2023 09:37 |
| NT1423022847.D | Data Locked | van, 14-Mar-2023 09:37 |
| NT1423022848.D | Data Locked | van, 14-Mar-2023 09:37 |
| NT1423022849.D | Data Locked | van, 14-Mar-2023 09:37 |
| NT1423022850.D | Data Locked | van, 14-Mar-2023 09:37 |
| NT1423022851.D | Data Locked | van, 14-Mar-2023 09:37 |
| NT1423022852.D | Data Locked | van, 14-Mar-2023 09:37 |
| NT1423022853.D | Data Locked | van, 14-Mar-2023 09:37 |
| NT1423022854.D | Data Locked | van, 14-Mar-2023 09:37 |
| NT1423022855.D | Data Locked | van, 14-Mar-2023 09:37 |
| NT1423022856.D | Data Locked | van, 14-Mar-2023 09:37 |

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INITIAL CALIBRATION DATA

Start Cal Date : 28-FEB-2023 11:39
 End Cal Date : 28-FEB-2023 15:16
 Quant Method : ISTD
 Origin : Force
 Target Version : 4.14
 Integrator : HP RTE
 Method file : \\target\share\chem3\nt14.i\20230228.b\ABN.m
 Last Edit : 10-Mar-2023 12:04 van

Calibration File Names:

Level 1: \\target\share\chem3\nt14.i\20230228.b\NT1423022808.D
 Level 2: \\target\share\chem3\nt14.i\20230228.b\NT1423022807.D
 Level 3: \\target\share\chem3\nt14.i\20230228.b\NT1423022806.D
 Level 4: \\target\share\chem3\nt14.i\20230228.b\NT1423022805.D
 Level 5: \\target\share\chem3\nt14.i\20230228.b\NT1423022804.D
 Level 6: \\target\share\chem3\nt14.i\20230228.b\NT1423022803.D
 Level 7: \\target\share\chem3\nt14.i\20230228.b\NT1423022802.D

| Compound | 0.2000000 | 0.5000000 | 1.0000 | 2.5000 | 5.0000 | 10.0000 | Curve | Coefficients | | | %RSD or R ² |
|------------------------|-----------|-----------|---------|---------|---------|---------|-------|--------------|----|----|---------------------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | b | m1 | m2 | |
| 186 Carbaryl | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | AVRG | 0.000e+000 | | | 0.000e+000 <- |
| 179 n-Decane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | AVRG | 0.000e+000 | | | 0.000e+000 <- |
| 180 n-Octadecane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | AVRG | 0.000e+000 | | | 0.000e+000 <- |
| 169 4-tert-Butylphenol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | AVRG | 0.000e+000 | | | 0.000e+000 |

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 Method file : \\target\share\chem3\nt14.i\20230228.b\ABN.m
 Last Edit : 10-Mar-2023 12:04 van

| Compound | 0.2000000 | 0.5000000 | 1.0000 | 2.5000 | 5.0000 | 10.0000 | Curve | b | Coefficients | | %RSD or R^2 |
|-------------------------|-----------|-----------|---------|---------|---------|---------|-------|---|--------------|----|----------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | | m1 | m2 | |
| | 20.0000 | | | | | | | | | | |
| | Level 7 | | | | | | | | | | |
| 170 N,N-Dimethylaniline | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 171 2,3-Dimethylaniline | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 172 2,4-Dimethylaniline | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 173 2,5-Dimethylaniline | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 174 2,6-Dimethylaniline | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 175 3,4-Dimethylaniline | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 176 3,5-Dimethylaniline | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |

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 Last Edit : 10-Mar-2023 12:04 van

| Compound | 0.2000000 | 0.5000000 | 1.0000 | 2.5000 | 5.0000 | 10.0000 | Curve | b | Coefficients | | %RSD or R^2 |
|------------------------|-----------|-----------|---------|---------|---------|---------|-------|---|--------------|----|----------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | | m1 | m2 | |
| | 20.0000 | | | | | | | | | | |
| | Level 7 | | | | | | | | | | |
| 177 p-Benzoquinone | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 <- |
| 168 Pentachlorobenzene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 <- |
| 145 4,4'-DDE | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 146 4,4'-DDD | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 147 4,4'-DDT | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 148 Dieldrin | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 149 TCMX | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |

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 Last Edit : 10-Mar-2023 12:04 van

| Compound | 0.2000000 | 0.5000000 | 1.0000 | 2.5000 | 5.0000 | 10.0000 | Curve | b | Coefficients | | %RSD or R ² |
|---------------------------------|-----------|-----------|---------|---------|---------|---------|-------|---|--------------|----|---------------------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | | m1 | m2 | |
| | 20.0000 | | | | | | | | | | |
| | Level 7 | | | | | | | | | | |
| 150 DCBP | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 138 Chlorobenzilate | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 139 Isodrin | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 140 Diallate A | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 141 Diallate B | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 142 1,2-Dibromo-3-Chloropropane | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 135 2,3,5,6-Tetrachlorophenol | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 <- |

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| Compound | 0.2000000 | 0.5000000 | 1.0000 | 2.5000 | 5.0000 | 10.0000 | Curve | b | Coefficients | | %RSD or R^2 |
|-------------------------------|-----------|-----------|---------|---------|---------|---------|-------|---|--------------|----|----------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | | m1 | m2 | |
| | 20.0000 | | | | | | | | | | |
| | Level 7 | | | | | | | | | | |
| 136 2,3,4,5-tetrachlorophenol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 133 Butylatedhydroxytoluene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 <- |
| 132 3,6-Dimethylphenanthrene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 131 1-Methylphenanthrene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 130 Dibenzothiophene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 129 1-Methylfluorene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 128 N-Hexadecane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |

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| Compound | 0.2000000 | 0.5000000 | 1.0000 | 2.5000 | 5.0000 | 10.0000 | Curve | b | Coefficients | | %RSD or R^2 |
|-----------------------------|-----------|-----------|---------|---------|---------|---------|-------|---|--------------|----|----------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | | m1 | m2 | |
| | 20.0000 | | | | | | | | | | |
| | Level 7 | | | | | | | | | | |
| 127 2-Isopropyl-naphthalene | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 126 N-Tetradecane | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 144 alpha-Terpineol | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 <- |
| 125 Safrole | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 124 3,4-Dimethylphenol | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 123 Acetophenone | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 <- |
| 122 Furfuraldehyde | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |

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| Compound | 0.2000000 | 0.5000000 | 1.0000 | 2.5000 | 5.0000 | 10.0000 | Curve | b | Coefficients | | %RSD or R^2 |
|-----------------------------------|-----------|-----------|---------|---------|---------|---------|-------|---|--------------|----|----------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | | m1 | m2 | |
| | 20.0000 | | | | | | | | | | |
| | Level 7 | | | | | | | | | | |
| 143 1,4-Dioxane | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000<- |
| 121 Quinoline | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 120 2,3,4,6-Tetrachlorophenol | 0.11650 | 0.27070 | 0.34565 | 0.41513 | 0.44809 | 0.48628 | | | | | |
| | 0.50655 | | | | | | AVRG | | 0.36984 | | 37.43660<- |
| 178 2-Benzyl-4-Chlorophenol | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000<- |
| 119 7,12-Dimethylbenz(a)anthracen | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 118 Triphenyl Phosphate | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000<- |
| 117 Butyl Diphenyl Phosphate | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000<- |

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| Compound | 0.2000000 | 0.5000000 | 1.0000 | 2.5000 | 5.0000 | 10.0000 | Curve | b | Coefficients | | %RSD or R^2 |
|-----------------------------------|-----------|-----------|---------|---------|---------|---------|-------|---|--------------|----|----------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | | m1 | m2 | |
| | 20.0000 | | | | | | | | | | |
| | Level 7 | | | | | | | | | | |
| 116 Dibutyl Phenyl Phosphate | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 <- |
| 115 Tributyl Phosphate | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 <- |
| 114 Beta-Pinene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 113 Diphenyl Oxide | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 <- |
| 112 Biphenyl | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 <- |
| 111 Azobenzene (1,2-DP-Hydrazine) | 1.11049 | 1.41406 | 1.48290 | 1.45308 | 1.39796 | 1.33952 | | | | | |
| | 1.25690 | | | | | | AVRG | | 1.35070 | | 9.59753 |
| 110 Tetrachloroguaiacol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 <- |

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| Compound | 0.2000000 | 0.5000000 | 1.0000 | 2.5000 | 5.0000 | 10.0000 | Curve | b | Coefficients | | %RSD or R^2 |
|-----------------------------|-----------|-----------|---------|---------|---------|---------|-------|---|--------------|----|----------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | | m1 | m2 | |
| | 20.0000 | | | | | | | | | | |
| | Level 7 | | | | | | | | | | |
| 109 3,4,5-Trichloroguaiacol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 <- |
| 181 3,4,6-Trichloroguaiacol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 <- |
| 108 4,5,6-Trichloroguaiacol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 <- |
| 184 3,4-Dichloroguaiacol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 <- |
| 107 4,5-Dichloroguaiacol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 <- |
| 182 4,6-Dichloroguaiacol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 <- |
| 185 4-Chloroguaiacol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 <- |

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 Integrator : HP RTE
 Method file : \\target\share\chem3\nt14.i\20230228.b\ABN.m
 Last Edit : 10-Mar-2023 12:04 van

| Compound | 0.2000000 | 0.5000000 | 1.0000 | 2.5000 | 5.0000 | 10.0000 | Curve | b | Coefficients | | %RSD or R^2 |
|--------------------------------|-----------|-----------|---------|---------|---------|---------|-------|---|--------------|----|----------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | | m1 | m2 | |
| | 20.0000 | | | | | | | | | | |
| | Level 7 | | | | | | | | | | |
| 106 Guaiacol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 <- |
| 105 1-methylnaphthalene | 0.70792 | 0.74175 | 0.75384 | 0.73681 | 0.74541 | 0.73029 | | | | | |
| | 0.67585 | | | | | | AVRG | | 0.72741 | | 3.70694 |
| 151 1,2,4,5-Tetrachlorobenzene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 <- |
| 152 Benzo(e)pyrene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 153 Chlorpyrifos | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 154 Diazinon | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 155 Kelthane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |

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| Compound | 0.2000000 | 0.5000000 | 1.0000 | 2.5000 | 5.0000 | 10.0000 | Curve | b | Coefficients | | %RSD or R ² |
|------------------------------------|-----------|-----------|---------|---------|---------|---------|-------|---|--------------|----|---------------------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | | m1 | m2 | |
| | 20.0000 | | | | | | | | | | |
| | Level 7 | | | | | | | | | | |
| 156 Methyl Parathion | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 157 Ethyl Parathion | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 158 Ethion | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 159 4-Nonylphenol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 160 Tetraethyl Tin | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 161 1,2,3-Trichloronaphthalene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 162 1,2,3,4-Tetrachloronaphthalene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |

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| Compound | 0.2000000 | 0.5000000 | 1.0000 | 2.5000 | 5.0000 | 10.0000 | Curve | b | Coefficients | | %RSD or R^2 |
|-----------------------------------|-----------|-----------|---------|---------|---------|---------|-------|------------|--------------|---------|----------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | | m1 | m2 | |
| | 20.0000 | | | | | | | | | | |
| | Level 7 | | | | | | | | | | |
| 163 1,2,3,5,8-Pentachloronaphthal | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 164 1,2,3,4,6,7-Hexachloronaphtha | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 165 1,2,3,4,5,6,7-Heptachloronaph | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 166 Octachloronaphthalene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 167 2,2',4,4',5-Pentabromobipheny | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 3 Phenol | 1.71277 | 1.73133 | 1.94162 | 1.98730 | 1.97334 | 1.87319 | | | | | |
| | 1.64190 | | | | | | AVRG | | 1.83735 | | 7.63575 |
| 4 Bis(2-Chloroethyl)ether | 17505 | 21291 | 42650 | 88931 | 175790 | 331952 | | | | | |
| | 644777 | | | | | | QUAD | 0.000e+000 | 0.76930 | 0.01931 | 0.99976 |

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|---------------------------------|-----------|-----------|---------|---------|---------|---------|-------|------------|--------------|----------|----------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | | m1 | m2 | |
| | 20.0000 | | | | | | | | | | |
| | Level 7 | | | | | | | | | | |
| 6 2-Chlorophenol | 1.10837 | 1.32914 | 1.44422 | 1.43237 | 1.41736 | 1.41293 | | | | | |
| | 1.32920 | | | | | | AVRG | | 1.35337 | | 8.70805 |
| 7 1,3-Dichlorobenzene | 1.57187 | 1.55985 | 1.57470 | 1.49316 | 1.46712 | 1.42633 | | | | | |
| | 1.34729 | | | | | | AVRG | | 1.49147 | | 5.72158 |
| 9 1,4-Dichlorobenzene | 1.45314 | 1.54123 | 1.48730 | 1.42847 | 1.53019 | 1.47903 | | | | | |
| | 1.39907 | | | | | | AVRG | | 1.47406 | | 3.50336 |
| 11 Benzyl alcohol | 1301 | 7780 | 16429 | 50852 | 116011 | 230349 | | | | | |
| | 484604 | | | | | | QUAD | 0.000e+000 | 1.24916 | -0.01907 | 0.99968 |
| 12 1,2-Dichlorobenzene | 1.45929 | 1.48510 | 1.51253 | 1.41985 | 1.39749 | 1.35338 | | | | | |
| | 1.26651 | | | | | | AVRG | | 1.41345 | | 5.95785 |
| 13 2-Methylphenol | 0.82340 | 1.08513 | 1.23563 | 1.24645 | 1.23721 | 1.32648 | | | | | |
| | 1.17082 | | | | | | AVRG | | 1.16073 | | 14.32508 |
| 14 2,2'-oxybis(1-Chloropropane) | 0.37608 | 0.38572 | 0.40318 | 0.38053 | 0.37904 | 0.37725 | | | | | |
| | 0.36651 | | | | | | AVRG | | 0.38119 | | 2.96488 |

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| Compound | 0.2000000 | 0.5000000 | 1.0000 | 2.5000 | 5.0000 | 10.0000 | Curve | Coefficients | | | %RSD or R^2 |
|-------------------------------|--------------------|-----------|---------|---------|---------|---------|-------|--------------|---------|----------|----------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | b | m1 | m2 | |
| | 20.0000 | | | | | | | | | | |
| | Level 7 | | | | | | | | | | |
| 15 4-Methylphenol | 3178 707698 | 15637 | 36110 | 91493 | 187688 | 359229 | QUAD | 0.000e+000 | 0.73878 | 0.00981 | 0.99993<- |
| 16 N-Nitroso-di-n-propylamine | 0.68725 0.90972 | 0.81230 | 0.93937 | 0.94370 | 0.95649 | 0.93760 | AVRG | | 0.88378 | | 11.24598 |
| 17 Hexachloroethane | 0.51170 0.54872 | 0.54371 | 0.56585 | 0.56858 | 0.56739 | 0.56906 | AVRG | | 0.55357 | | 3.81858 |
| 19 Nitrobenzene | 0.28785 0.37121 | 0.36723 | 0.39649 | 0.40329 | 0.40970 | 0.39627 | AVRG | | 0.37601 | | 11.16859 |
| 20 Isophorone | 6703 1166249 | 23868 | 51815 | 136718 | 291476 | 574873 | QUAD | 0.000e+000 | 1.70036 | 0.04159 | 0.99981 |
| 21 2-Nitrophenol | 1099 423415 | 4693 | 13288 | 41751 | 99495 | 200731 | QUAD | 0.000e+000 | 5.14028 | -0.14478 | 0.99942<- |
| 22 2,4-Dimethylphenol | 0.28835 0.30889 | 0.35689 | 0.36950 | 0.36883 | 0.36093 | 0.34610 | AVRG | | 0.34278 | | 9.25824 |

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| Compound | 0.2000000 | 0.5000000 | 1.0000 | 2.5000 | 5.0000 | 10.0000 | Curve | b | Coefficients | | %RSD or R^2 |
|-------------------------------|---------------------|-----------|---------|---------|---------|---------|-------|------------|--------------|---------|----------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | | m1 | m2 | |
| | 20.0000 | | | | | | | | | | |
| | Level 7 | | | | | | | | | | |
| 23 Bis(2-Chloroethoxy)methane | 0.31223 0.35055 | 0.40184 | 0.42080 | 0.40384 | 0.38257 | 0.37434 | | | | | |
| | | | | | | | AVRG | | 0.37802 | | 9.76826 |
| 24 Benzoic acid | ++++ 0.22926 | ++++ | 0.03673 | 0.10055 | 0.14453 | 0.16814 | | | | | |
| | | | | | | | AVRG | | 0.13584 | | 53.22886 <- |
| 25 2,4-Dichlorophenol | 7177 1247212 | 29846 | 68601 | 172335 | 345023 | 626659 | | | | | |
| | | | | | | | QUAD | 0.000e+000 | 2.87027 | 0.18092 | 0.99990 |
| 26 1,2,4-Trichlorobenzene | 0.40184 0.34230 | 0.40986 | 0.41404 | 0.39112 | 0.38515 | 0.36749 | | | | | |
| | | | | | | | AVRG | | 0.38740 | | 6.55763 |
| 28 Naphthalene | 1.11970 0.95888 | 1.12445 | 1.11039 | 1.07768 | 1.05481 | 1.02280 | | | | | |
| | | | | | | | AVRG | | 1.06696 | | 5.65823 |
| 29 4-Chloroaniline | ++++ 0.43678 | 0.41655 | 0.46896 | 0.47561 | 0.47633 | 0.46391 | | | | | |
| | | | | | | | AVRG | | 0.45636 | | 5.32610 |
| 30 Hexachlorobutadiene | 0.22747 0.23805 | 0.23582 | 0.23707 | 0.23043 | 0.25949 | 0.22642 | | | | | |
| | | | | | | | AVRG | | 0.23639 | | 4.73574 |

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| Compound | 0.2000000 | 0.5000000 | 1.0000 | 2.5000 | 5.0000 | 10.0000 | Curve | b | Coefficients | | %RSD or R ² |
|------------------------------|--------------------|-----------|---------|---------|---------|---------|-------|------------|--------------|----------|---------------------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | | m1 | m2 | |
| | 20.0000 | | | | | | | | | | |
| | Level 7 | | | | | | | | | | |
| 31 4-Chloro-3-methylphenol | ++++ 0.29826 | 0.25978 | 0.31338 | 0.32146 | 0.33194 | 0.32647 | | | | | |
| | | | | | | | AVRG | | 0.30855 | | 8.62718 |
| 32 2-Methylnaphthalene | 0.74313 0.73366 | 0.81303 | 0.81696 | 0.81209 | 0.81478 | 0.79717 | | | | | |
| | | | | | | | AVRG | | 0.79012 | | 4.55796 |
| 33 Hexachlorocyclopentadiene | ++++ 1088301 | 17596 | 40966 | 118187 | 262875 | 535730 | | | | | |
| | | | | | | | QUAD | 0.000e+000 | 2.38320 | -0.01867 | 0.99969 |
| 34 2,4,6-Trichlorophenol | ++++ 0.42020 | 0.31509 | 0.37111 | 0.39839 | 0.41689 | 0.42275 | | | | | |
| | | | | | | | AVRG | | 0.39074 | | 10.70192 |
| 35 2,4,5-Trichlorophenol | ++++ 0.45730 | 0.32166 | 0.38765 | 0.44507 | 0.45702 | 0.46611 | | | | | |
| | | | | | | | AVRG | | 0.42247 | | 13.47181 |
| 37 2-Chloronaphthalene | 1.20738 1.19977 | 1.26480 | 1.29399 | 1.27744 | 1.24927 | 1.24354 | | | | | |
| | | | | | | | AVRG | | 1.24803 | | 2.78754 |
| 38 2-Nitroaniline | ++++ 0.33198 | 0.26511 | 0.31749 | 0.34252 | 0.35104 | 0.34483 | | | | | |
| | | | | | | | AVRG | | 0.32549 | | 9.78235 |

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|-----------------------|---------------------|-----------|---------|---------|---------|---------|-------|------------|--------------|----------|---------------------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | | m1 | m2 | |
| | 20.0000 | | | | | | | | | | |
| | Level 7 | | | | | | | | | | |
| 39 Dimethylphthalate | 1.00797 1.21313 | 1.27810 | 1.35274 | 1.35768 | 1.32514 | 1.27234 | | | | | |
| | | | | | | | AVRG | | 1.25816 | | 9.65612 |
| 40 Acenaphthylene | 1.62664 1.68901 | 1.89107 | 1.99583 | 1.95439 | 1.86926 | 1.79288 | | | | | |
| | | | | | | | AVRG | | 1.83130 | | 7.42194 |
| 41 2,6-Dinitrotoluene | ++++ 0.28486 | 0.26863 | 0.30060 | 0.31015 | 0.30662 | 0.29814 | | | | | |
| | | | | | | | AVRG | | 0.29483 | | 5.26344 |
| 43 3-Nitroaniline | ++++ 0.31914 | 0.24408 | 0.28553 | 0.31340 | 0.32316 | 0.32778 | | | | | |
| | | | | | | | AVRG | | 0.30218 | | 10.63268 |
| 44 Acenaphthene | 1.20426 1.10332 | 1.20336 | 1.21378 | 1.18973 | 1.15014 | 1.14286 | | | | | |
| | | | | | | | AVRG | | 1.17249 | | 3.50392 |
| 45 2,4-Dinitrophenol | ++++ 1197739 | 3318 | 18721 | 78557 | 228510 | 533957 | | | | | |
| | | | | | | | QUAD | 0.000e+000 | 5.36780 | -0.24991 | 0.99786 <- |
| 46 Dibenzofuran | 1.80408 1.76654 | 1.92727 | 1.97188 | 1.90866 | 1.85584 | 1.82507 | | | | | |
| | | | | | | | AVRG | | 1.86562 | | 3.93201 |

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| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | b | m1 | m2 | |
| | 20.0000 | | | | | | | | | | |
| | Level 7 | | | | | | | | | | |
| 47 4-Nitrophenol | ++++ 432142 | 5053 | 14522 | 35594 | 96474 | 201125 | QUAD | 0.000e+000 | 6.70533 | -0.52862 | 0.99904 |
| 48 2,4-Dinitrotoluene | ++++ 0.44063 | 0.36398 | 0.41359 | 0.44499 | 0.43912 | 0.44434 | AVRG | | 0.42444 | | 7.50169 |
| 49 Fluorene | 1.55728 1.39143 | 1.65410 | 1.69104 | 1.64287 | 1.55127 | 1.51532 | AVRG | | 1.57190 | | 6.48759 |
| 50 Diethylphthalate | 0.90890 1.16941 | 1.17345 | 1.26289 | 1.25775 | 1.24571 | 1.21770 | AVRG | | 1.17654 | | 10.53734 |
| 51 4-Chlorophenyl-phenylether | 0.90520 0.72386 | 0.88033 | 0.88126 | 0.84740 | 0.81780 | 0.79872 | AVRG | | 0.83637 | | 7.43926 |
| 52 4-Nitroaniline | ++++ 0.33116 | 0.22128 | 0.27946 | 0.31579 | 0.32070 | 0.32887 | AVRG | | 0.29954 | | 14.24178 |
| 53 4,6-Dinitro-2-methylphenol | ++++ 1382965 | 16032 | 39362 | 144017 | 330606 | 670158 | QUAD | 0.000e+000 | 7.52304 | -0.12426 | 0.99953 |

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| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | | m1 | m2 | |
| | 20.0000 | | | | | | | | | | |
| | Level 7 | | | | | | | | | | |
| 54 N-Nitrosodiphenylamine | 0.44545 | 0.52893 | 0.54502 | 0.51895 | 0.51600 | 0.49300 | | | | | |
| | 0.47128 | | | | | | AVRG | | 0.50266 | | 6.92911 |
| 56 4-Bromophenyl-phenylether | 0.19343 | 0.21630 | 0.22365 | 0.22681 | 0.23208 | 0.22756 | | | | | |
| | 0.22710 | | | | | | AVRG | | 0.22099 | | 5.91629 |
| 57 Hexachlorobenzene | 0.24152 | 0.24563 | 0.25578 | 0.24316 | 0.24793 | 0.23728 | | | | | |
| | 0.22947 | | | | | | AVRG | | 0.24297 | | 3.41292 |
| 58 Pentachlorophenol | ++++ | 3531 | 13941 | 51244 | 143862 | 317169 | | | | | |
| | 733383 | | | | | | QUAD | 0.000e+000 | 8.75609 | -1.35162 | 0.99872 |
| 60 Phenanthrene | 1.09135 | 1.11427 | 1.11406 | 1.07898 | 1.06588 | 1.00854 | | | | | |
| | 0.97553 | | | | | | AVRG | | 1.06409 | | 4.98919 |
| 61 Anthracene | 0.81847 | 0.99017 | 1.05458 | 1.06453 | 1.07577 | 1.03615 | | | | | |
| | 1.00203 | | | | | | AVRG | | 1.00596 | | 8.79782 |
| 62 Carbazole | 0.75873 | 0.89927 | 0.92017 | 0.86523 | 0.90991 | 0.91324 | | | | | |
| | 0.90508 | | | | | | AVRG | | 0.88166 | | 6.46930 |

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| Compound | 0.2000000 | 0.5000000 | 1.0000 | 2.5000 | 5.0000 | 10.0000 | Curve | b | Coefficients | | %RSD or R^2 | |
|---------------------------|--------------------|-----------|---------|---------|---------|---------|-------|------|--------------|---------|----------------|----------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | | m1 | m2 | | |
| | 20.0000 | | | | | | | | | | | |
| | Level 7 | | | | | | | | | | | |
| 63 Di-n-butylphthalate | 11994 2636158 | 52453 | 118065 | 325349 | 692339 | 1339003 | | QUAD | 0.000e+000 | 0.87744 | 0.01221 | 0.99990 |
| 64 Fluoranthene | 1.30846 1.51293 | 1.49611 | 1.58043 | 1.57730 | 1.59496 | 1.55295 | | AVRG | | 1.51759 | | 6.53266 |
| 65 Pyrene | 1.43417 1.52448 | 1.60601 | 1.67288 | 1.63645 | 1.73931 | 1.58694 | | AVRG | | 1.60003 | | 6.22164 |
| 67 Butylbenzylphthalate | 3827 998361 | 19811 | 45877 | 128438 | 270943 | 523743 | | QUAD | 0.000e+000 | 1.76410 | 0.05237 | 0.99985 |
| 68 Benzo(a)anthracene | 1.25901 1.07272 | 1.42961 | 1.44777 | 1.42425 | 1.42069 | 1.32526 | | AVRG | | 1.33990 | | 10.17248 |
| 70 3,3'-Dichlorobenzidine | ++++ 0.35886 | 0.39845 | 0.38245 | 0.35059 | 0.38984 | 0.41570 | | AVRG | | 0.38265 | | 6.38828 |
| 71 Chrysene | 1.30944 1.16987 | 1.34003 | 1.32467 | 1.31327 | 1.30106 | 1.25700 | | AVRG | | 1.28790 | | 4.50909 |

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 28-FEB-2023 11:39
 End Cal Date : 28-FEB-2023 15:16
 Quant Method : ISTD
 Origin : Force
 Target Version : 4.14
 Integrator : HP RTE
 Method file : \\target\share\chem3\nt14.i\20230228.b\ABN.m
 Last Edit : 10-Mar-2023 12:04 van

| Compound | 0.2000000 | 0.5000000 | 1.0000 | 2.5000 | 5.0000 | 10.0000 | Curve | b | Coefficients | | %RSD or R^2 | |
|-------------------------------|--------------------|-----------|---------|---------|---------|---------|-------|------|--------------|---------|----------------|---------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | | m1 | m2 | | |
| | 20.0000 | | | | | | | | | | | |
| | Level 7 | | | | | | | | | | | |
| 72 bis(2-Ethylhexyl)phthalate | 5298 1459766 | 25596 | 60745 | 178294 | 382571 | 748352 | | QUAD | 0.000e+000 | 1.63673 | 0.01329 | 0.99992 |
| 73 Di-n-octylphthalate | 1.13034 0.96729 | 1.10877 | 1.07821 | 1.05358 | 1.03010 | 1.00398 | | AVRG | | 1.05318 | | 5.48218 |
| 74 Benzo(b)fluoranthene | 1.19145 1.29870 | 1.31834 | 1.33025 | 1.30301 | 1.36433 | 1.44485 | | AVRG | | 1.32156 | | 5.77178 |
| 75 Benzo(k)fluoranthene | 1.38154 1.34388 | 1.44426 | 1.49307 | 1.53943 | 1.42421 | 1.35382 | | AVRG | | 1.42574 | | 5.09257 |
| 187 Total Benzofluoranthenes | 1.22053 1.23245 | 1.29838 | 1.33642 | 1.33307 | 1.31456 | 1.31402 | | AVRG | | 1.29278 | | 3.64786 |
| 76 Benzo(a)pyrene | 0.91712 1.16950 | 1.07190 | 1.16228 | 1.19893 | 1.19877 | 1.21820 | | AVRG | | 1.13382 | | 9.42079 |
| 78 Indeno(1,2,3-cd)pyrene | 1.25508 1.44267 | 1.37104 | 1.45858 | 1.48611 | 1.49375 | 1.48350 | | AVRG | | 1.42725 | | 6.07267 |

ARI Labs, Inc.

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 Last Edit : 10-Mar-2023 12:04 van

| Compound | 0.2000000 | 0.5000000 | 1.0000 | 2.5000 | 5.0000 | 10.0000 | Curve | b | Coefficients | | %RSD or R ² |
|---------------------------|---------------------|-----------|---------|---------|---------|---------|-------|------------|--------------|---------|---------------------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | | m1 | m2 | |
| | 20.0000 | | | | | | | | | | |
| | Level 7 | | | | | | | | | | |
| 79 Dibenzo(a,h)anthracene | 1.10720 1.16984 | 1.18792 | 1.25899 | 1.26372 | 1.26083 | 1.23693 | | | | | |
| | | | | | | | AVRG | | 1.21221 | | 4.90696 |
| 80 Benzo(g,h,i)perylene | 1.13256 1.31599 | 1.17986 | 1.23920 | 1.25318 | 1.28255 | 1.31035 | | | | | |
| | | | | | | | AVRG | | 1.24481 | | 5.45879 |
| 90 N-Nitrosodimethylamine | 6020 718646 | 16001 | 39573 | 108235 | 217203 | 390301 | | | | | |
| | | | | | | | QUAD | 0.000e+000 | 1.21141 | 0.05745 | 0.99988 |
| 91 Aniline | 9677 1772141 | 45900 | 99495 | 251477 | 504334 | 946419 | | | | | |
| | | | | | | | QUAD | 0.000e+000 | 0.52548 | 0.00723 | 0.99988 |
| 92 1,2-Diphenylhydrazine | +++++ +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 93 Benzidine | +++++ 2174972 | 38356 | 76786 | 225245 | 591643 | 1206182 | | | | | |
| | | | | | | | QUAD | 0.000e+000 | 1.53886 | 0.03474 | 0.99797 |
| 96 p-Cymene | +++++ +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |

ARI Labs, Inc.

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 Last Edit : 10-Mar-2023 12:04 van

| Compound | 0.2000000 | 0.5000000 | 1.0000 | 2.5000 | 5.0000 | 10.0000 | Curve | b | Coefficients | | %RSD or R^2 |
|------------------------|-----------|-----------|---------|---------|---------|---------|-------|------------|--------------|---------|----------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | | m1 | m2 | |
| | 20.0000 | | | | | | | | | | |
| | Level 7 | | | | | | | | | | |
| 97 Caffeine | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 98 Retene | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000<- |
| 99 Perylene | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000<- |
| 100 3-beta-Coprostanol | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000<- |
| 101 Cholesterol | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000<- |
| 102 beta-Sitosterol | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 103 Pyridine | ++++ | 26705 | 45270 | 152436 | 341942 | 608195 | | | | | |
| | 1163730 | | | | | | QUAD | 0.000e+000 | 0.41087 | 0.00738 | 0.99949<- |

ARI Labs, Inc.

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 Integrator : HP RTE
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 Last Edit : 10-Mar-2023 12:04 van

| Compound | 0.2000000 | 0.5000000 | 1.0000 | 2.5000 | 5.0000 | 10.0000 | Curve | b | Coefficients | | %RSD or R ² |
|-------------------------------|-----------|-----------|---------|---------|---------|---------|-------|---|--------------|----|---------------------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | | m1 | m2 | |
| | 20.0000 | | | | | | | | | | |
| | Level 7 | | | | | | | | | | |
| 188 2,6-Dichlorophenol | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 <- |
| 189 N-Nitrosomethylethylamine | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 <- |
| \$ 1 2-Fluorophenol | 0.76858 | 1.02791 | 1.08020 | 1.18847 | 1.21288 | 1.20155 | | | | | |
| | 1.11269 | | | | | | AVRG | | 1.08461 | | 14.32370 |
| \$ 137 d8-1,4-Dioxane | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 <- |
| \$ 2 Phenol-d5 | 1.11605 | 1.43700 | 1.64939 | 1.68069 | 1.69960 | 1.66509 | | | | | |
| | 1.53155 | | | | | | AVRG | | 1.53991 | | 13.60357 |
| \$ 5 2-Chlorophenol-d4 | 1.15017 | 1.24759 | 1.31556 | 1.33040 | 1.42501 | 1.38740 | | | | | |
| | 1.30960 | | | | | | AVRG | | 1.30939 | | 6.90884 |
| \$ 10 1,2-Dichlorobenzene-d4 | 1.06844 | 1.02134 | 1.03141 | 0.98802 | 0.96646 | 0.94220 | | | | | |
| | 0.88244 | | | | | | AVRG | | 0.98576 | | 6.29929 |

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| Compound | 0.2000000 | 0.5000000 | 1.0000 | 2.5000 | 5.0000 | 10.0000 | Curve | b | Coefficients | | %RSD or R ² |
|----------------------------|-----------|-----------|---------|---------|---------|---------|-------|------------|--------------|----------|---------------------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | | m1 | m2 | |
| | 20.0000 | | | | | | | | | | |
| | Level 7 | | | | | | | | | | |
| \$ 18 Nitrobenzene-d5 | 0.28611 | 0.37584 | 0.40436 | 0.42023 | 0.42995 | 0.42293 | | | | | |
| | 0.39958 | | | | | | AVRG | | 0.39129 | | 12.72539 |
| \$ 36 2-Fluorobiphenyl | 1.57142 | 1.60913 | 1.64732 | 1.58343 | 1.52567 | 1.49619 | | | | | |
| | 1.46485 | | | | | | AVRG | | 1.55686 | | 4.14230 |
| \$ 55 2,4,6-Tribromophenol | ++++ | 7171 | 16277 | 46515 | 102657 | 216848 | | | | | |
| | 473949 | | | | | | QUAD | 0.000e+000 | 4.65943 | -0.36700 | 0.99974 |
| \$ 66 Terphenyl-d14 | 1.20646 | 1.28996 | 1.32078 | 1.28435 | 1.25094 | 1.17771 | | | | | |
| | 1.09335 | | | | | | AVRG | | 1.23193 | | 6.38857 |
| \$ 85 p-Cresol-d4 | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| \$ 86 Anthracene-d10 | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| \$ 87 Fluoranthene-d10 | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |

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| Compound | 0.2000000 | 0.5000000 | 1.0000 | 2.5000 | 5.0000 | 10.0000 | Curve | b | Coefficients | | %RSD or R^2 |
|---------------------------------|-----------|-----------|---------|---------|---------|---------|-------|---|--------------|----|----------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | | m1 | m2 | |
| | 20.0000 | | | | | | | | | | |
| | Level 7 | | | | | | | | | | |
| \$ 88 Dibenz(a,h)anthracene-d14 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| \$ 89 Diphenyl-d10 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| \$ 95 D10-1-methylnaphthalene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 28-FEB-2023 11:39
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Quant Method : ISTD
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Integrator : HP RTE
Method file : \\target\share\chem3\nt14.i\20230228.b\ABN.m
Last Edit : 10-Mar-2023 12:04 van

| Curve | Formula | Units |
|----------|-----------------------------|----------|
| Averaged | Amt = Rsp/m1 | Response |
| Quad | Amt = b + m1*Rsp + m2*Rsp^2 | Response |

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt14.i\20230228.b\ABN.m
Batch File: \\target\share\chem3\nt14.i\20230228.b
Inst ID: nt14.i

ID: RT01 RT02 RT03 RT04 RT05 RT06 RT07
FILENAME: NT1423022802 NT1423022803 NT1423022804 NT1423022805 NT1423022806 NT1423022807 NT1423022808
INJ. DATE: 28-FEB-2023 28-FEB-2023 28-FEB-2023 28-FEB-2023 28-FEB-2023 28-FEB-2023 28-FEB-2023
INJ. TIME: 11:39 12:15 12:51 13:28 14:04 14:40 15:16

Table with columns: Compound, RT01, RT02, RT03, RT04, RT05, RT06, RT07, EXPECT RT, RT WINDOW, AVG RT, STD DEV. Rows include various chemical compounds like 2-Fluorophenol, Carbaryl, n-Decane, etc.

Reviewer 1 _____ Date: _____
Reviewer 2 _____ Date: _____

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt14.i\20230228.b\ABN.m
Batch File: \\target\share\chem3\nt14.i\20230228.b
Inst ID: nt14.i

| Compound | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | RT07 | EXPEC RT | RT WINDOW | AVG RT | STD DEV |
|------------------------------|--------|--------|--------|--------|--------|--------|--------|----------|---------------|--------|---------|
| 148 Dieldrin | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 47.281 | 44.281-50.281 | +++++ | +++++ |
| 149 TCMX | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 43.387 | 40.387-46.387 | +++++ | +++++ |
| 150 DCBP | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 50.989 | 47.989-53.989 | +++++ | +++++ |
| 138 Chlorobenzilate | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 67.733 | 64.733-70.733 | +++++ | +++++ |
| 139 Isodrin | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 65.067 | 62.067-68.067 | +++++ | +++++ |
| 140 Diallate A | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 65.487 | 62.487-68.487 | +++++ | +++++ |
| 141 Diallate B | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 65.487 | 62.487-68.487 | +++++ | +++++ |
| 142 1,2-Dibromo-3-Chloropr | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 49.917 | 46.917-52.917 | +++++ | +++++ |
| 135 2,3,5,6-Tetrachlorophe | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 16.383 | 13.383-19.383 | +++++ | +++++ |
| 136 2,3,4,5-tetrachlorophe | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 39.317 | 36.317-42.317 | +++++ | +++++ |
| 137 d8-1,4-Dioxane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 2.445 | 0.000-5.445 | +++++ | +++++ |
| * 134 Di-n-octylphthalate-d4 | 23.491 | 23.484 | 23.484 | 23.484 | 23.476 | 23.476 | 23.476 | 23.476 | 20.476-26.476 | 23.482 | 0.006 |
| 133 Butylatedhydroxytoluen | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 15.571 | 12.571-18.571 | +++++ | +++++ |
| 132 3,6-Dimethylphenanthre | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 65.450 | 62.450-68.450 | +++++ | +++++ |
| 131 1-Methylphenanthrene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 64.400 | 61.400-67.400 | +++++ | +++++ |
| 130 Dibenzothiophene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 62.100 | 59.100-65.100 | +++++ | +++++ |
| 129 1-Methylfluorene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 54.912 | 51.912-57.912 | +++++ | +++++ |
| 128 N-Hexadecane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 54.212 | 51.212-57.212 | +++++ | +++++ |
| 127 2-Isopropylaphthalene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 57.650 | 54.650-60.650 | +++++ | +++++ |
| 126 N-Tetradecane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 56.750 | 53.750-59.750 | +++++ | +++++ |
| 144 alpha-Terpineol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 11.447 | 8.447-14.447 | +++++ | +++++ |
| 125 Safrole | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 52.166 | 49.166-55.166 | +++++ | +++++ |

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt14.i\20230228.b\ABN.m
Batch File: \\target\share\chem3\nt14.i\20230228.b
Inst ID: nt14.i

| Compound | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | RT07 | EXPEC RT | RT WINDOW | AVG RT | STD DEV |
|----------------------------|--------|--------|--------|--------|--------|--------|--------|----------|---------------|--------|---------|
| 124 3,4-Dimethylphenol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 50.617 | 47.617-53.617 | +++++ | +++++ |
| 123 Acetophenone | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 10.252 | 7.252-13.252 | +++++ | +++++ |
| 122 Furfuraldehyde | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 43.467 | 40.467-46.467 | +++++ | +++++ |
| 143 1,4-Dioxane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 2.697 | 0.000-5.697 | +++++ | +++++ |
| 121 Quinoline | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 54.500 | 51.500-57.500 | +++++ | +++++ |
| 120 2,3,4,6-Tetrachlorophe | 15.005 | 14.997 | 14.997 | 14.998 | 14.997 | 15.006 | 15.029 | 15.029 | 12.029-18.029 | 15.004 | 0.011 |
| 178 2-Benzyl-4-Chloropheno | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 18.963 | 15.963-21.963 | +++++ | +++++ |
| 119 7,12-Dimethylbenz(a)an | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 47.069 | 44.069-50.069 | +++++ | +++++ |
| 118 Triphenyl Phosphate | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 21.215 | 18.215-24.215 | +++++ | +++++ |
| 117 Butyl Diphenyl Phospha | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 16.761 | 13.761-19.761 | +++++ | +++++ |
| 116 Dibutyl Phenyl Phospha | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 18.747 | 15.747-21.747 | +++++ | +++++ |
| 115 Tributyl Phosphate | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 16.923 | 13.923-19.923 | +++++ | +++++ |
| 114 Beta-Pinene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 48.950 | 45.950-51.950 | +++++ | +++++ |
| 113 Diphenyl Oxide | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 14.341 | 11.341-17.341 | +++++ | +++++ |
| 112 Biphenyl | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 14.085 | 11.085-17.085 | +++++ | +++++ |
| 111 Azobenzene (1,2-DP-Hyd | 15.708 | 15.693 | 15.685 | 15.677 | 15.677 | 15.678 | 15.678 | 15.678 | 12.678-18.678 | 15.685 | 0.012 |
| 110 Tetrachloroguaiacol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 17.140 | 14.140-20.140 | +++++ | +++++ |
| 109 3,4,5-Trichloroguaiaco | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 15.070 | 12.070-18.070 | +++++ | +++++ |
| 181 3,4,6-Trichloroguaiaco | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 15.232 | 12.232-18.232 | +++++ | +++++ |
| 108 4,5,6-Trichloroguaiaco | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 16.374 | 13.374-19.374 | +++++ | +++++ |
| 184 3,4-Dichloroguaiacol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 13.120 | 10.120-16.120 | +++++ | +++++ |
| 107 4,5-Dichloroguaiacol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 14.096 | 11.096-17.096 | +++++ | +++++ |
| 182 4,6-Dichloroguaiacol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 14.096 | 11.096-17.096 | +++++ | +++++ |
| 185 4-Chloroguaiacol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 11.735 | 8.735-14.735 | +++++ | +++++ |

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt14.i\20230228.b\ABN.m
Batch File: \\target\share\chem3\nt14.i\20230228.b
Inst ID: nt14.i

| Compound | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | RT07 | EXPEC RT | RT WINDOW | AVG RT | STD DEV |
|----------------------------|--------|--------|--------|--------|--------|--------|--------|----------|---------------|--------|---------|
| 106 Guaiacol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 9.243 | 6.243-12.243 | +++++ | +++++ |
| 105 1-methylnaphthalene | 12.321 | 12.321 | 12.313 | 12.313 | 12.313 | 12.313 | 12.313 | 12.313 | 9.313-15.313 | 12.315 | 0.004 |
| 151 1,2,4,5-Tetrachloroben | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 11.499 | 8.499-14.499 | +++++ | +++++ |
| 152 Benzo(e)pyrene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 30.943 | 27.943-33.943 | +++++ | +++++ |
| 153 Chlorpyrifos | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 27.642 | 24.642-30.642 | +++++ | +++++ |
| 154 Diazinon | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 25.953 | 22.953-28.953 | +++++ | +++++ |
| 155 Kelthane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 27.750 | 24.750-30.750 | +++++ | +++++ |
| 156 Methyl Parathion | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 26.464 | 23.464-29.464 | +++++ | +++++ |
| 157 Ethyl Parathion | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 27.099 | 24.099-30.099 | +++++ | +++++ |
| 158 Ethion | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 24.513 | 21.513-27.513 | +++++ | +++++ |
| 159 4-Nonylphenol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 25.132 | 22.132-28.132 | +++++ | +++++ |
| 160 Tetraethyl Tin | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 19.528 | 16.528-22.528 | +++++ | +++++ |
| 161 1,2,3-Trichloronaphtha | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 36.246 | 33.246-39.246 | +++++ | +++++ |
| 162 1,2,3,4-Tetrachloronap | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 37.506 | 34.506-40.506 | +++++ | +++++ |
| 163 1,2,3,5,8-Pentachloron | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 38.893 | 35.893-41.893 | +++++ | +++++ |
| 164 1,2,3,4,6,7-Hexachloro | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 39.681 | 36.681-42.681 | +++++ | +++++ |
| 165 1,2,3,4,5,6,7-Heptachl | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 41.123 | 38.123-44.123 | +++++ | +++++ |
| 166 Octachloronaphthalene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 42.253 | 39.253-45.253 | +++++ | +++++ |
| 167 2,2',4,4',5-Pentabromo | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 42.033 | 39.033-45.033 | +++++ | +++++ |
| 2 Phenol-d5 | 7.666 | 7.650 | 7.650 | 7.642 | 7.650 | 7.651 | 7.666 | 7.666 | 4.666-10.666 | 7.654 | 0.009 |
| 3 Phenol | 7.689 | 7.673 | 7.665 | 7.666 | 7.666 | 7.674 | 7.681 | 7.681 | 4.681-10.681 | 7.673 | 0.009 |
| 4 Bis(2-Chloroethyl)ethe | 7.812 | 7.805 | 7.805 | 7.797 | 7.797 | 7.797 | 7.805 | 7.805 | 4.805-10.805 | 7.803 | 0.006 |
| 5 2-Chlorophenol-d4 | 7.874 | 7.866 | 7.866 | 7.866 | 7.866 | 7.867 | 7.882 | 7.882 | 4.882-10.882 | 7.870 | 0.006 |

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt14.i\20230228.b\ABN.m
Batch File: \\target\share\chem3\nt14.i\20230228.b
Inst ID: nt14.i

| Compound | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | RT07 | EXPEC RT | RT WINDOW | AVG RT | STD DEV |
|------------------------------|--------|--------|--------|--------|--------|--------|--------|----------|--------------|--------|---------|
| 6 2-Chlorophenol | 7.905 | 7.897 | 7.897 | 7.890 | 7.897 | 7.898 | 7.905 | 7.905 | 4.905-10.905 | 7.898 | 0.005 |
| 7 1,3-Dichlorobenzene | 8.153 | 8.153 | 8.145 | 8.145 | 8.153 | 8.153 | 8.153 | 8.153 | 5.153-11.153 | 8.151 | 0.004 |
| * 8 1,4-Dichlorobenzene-d4 | 8.223 | 8.215 | 8.215 | 8.215 | 8.215 | 8.215 | 8.207 | 8.207 | 5.207-11.207 | 8.215 | 0.004 |
| 9 1,4-Dichlorobenzene | 8.246 | 8.246 | 8.246 | 8.246 | 8.246 | 8.246 | 8.246 | 8.246 | 5.246-11.246 | 8.246 | 0.000 |
| \$ 10 1,2-Dichlorobenzene-d4 | 8.572 | 8.564 | 8.564 | 8.564 | 8.564 | 8.564 | 8.572 | 8.572 | 5.572-11.572 | 8.566 | 0.004 |
| 11 Benzyl alcohol | 8.525 | 8.517 | 8.517 | 8.517 | 8.525 | 8.549 | 8.689 | 8.689 | 5.689-11.689 | 8.549 | 0.063 |
| 12 1,2-Dichlorobenzene | 8.595 | 8.595 | 8.587 | 8.587 | 8.595 | 8.595 | 8.595 | 8.595 | 5.595-11.595 | 8.593 | 0.004 |
| 13 2-Methylphenol | 8.766 | 8.758 | 8.758 | 8.758 | 8.758 | 8.766 | 8.774 | 8.774 | 5.774-11.774 | 8.763 | 0.006 |
| 14 2,2'-oxybis(1-Chloropr | 8.820 | 8.812 | 8.812 | 8.805 | 8.805 | 8.813 | 8.813 | 8.813 | 5.813-11.813 | 8.811 | 0.005 |
| 15 4-Methylphenol | 9.053 | 9.038 | 9.030 | 9.030 | 9.030 | 9.038 | 9.069 | 9.069 | 6.069-12.069 | 9.041 | 0.015 |
| 16 N-Nitroso-di-n-propyla | 9.100 | 9.076 | 9.069 | 9.069 | 9.069 | 9.069 | 9.077 | 9.077 | 6.077-12.077 | 9.075 | 0.011 |
| 17 Hexachloroethane | 9.170 | 9.170 | 9.169 | 9.170 | 9.170 | 9.170 | 9.162 | 9.162 | 6.162-12.162 | 9.169 | 0.003 |
| \$ 18 Nitrobenzene-d5 | 9.317 | 9.309 | 9.309 | 9.302 | 9.309 | 9.310 | 9.317 | 9.317 | 6.317-12.317 | 9.310 | 0.005 |
| 19 Nitrobenzene | 9.356 | 9.340 | 9.340 | 9.340 | 9.340 | 9.341 | 9.356 | 9.356 | 6.356-12.356 | 9.345 | 0.008 |
| 20 Isophorone | 9.829 | 9.806 | 9.790 | 9.790 | 9.790 | 9.791 | 9.806 | 9.806 | 6.806-12.806 | 9.800 | 0.015 |
| 21 2-Nitrophenol | 9.969 | 9.961 | 9.961 | 9.961 | 9.969 | 9.977 | 9.992 | 9.992 | 6.992-12.992 | 9.970 | 0.012 |
| 22 2,4-Dimethylphenol | 10.077 | 10.062 | 10.054 | 10.054 | 10.054 | 10.054 | 10.062 | 10.062 | 7.062-13.062 | 10.060 | 0.009 |
| 23 Bis(2-Chloroethoxy)met | 10.256 | 10.248 | 10.240 | 10.240 | 10.240 | 10.248 | 10.256 | 10.256 | 7.256-13.256 | 10.247 | 0.007 |
| 24 Benzoic acid | 10.542 | 10.434 | 10.356 | 10.302 | 10.665 | +++++ | +++++ | 10.665 | 7.665-13.665 | 10.460 | 0.146 |
| 25 2,4-Dichlorophenol | 10.434 | 10.426 | 10.418 | 10.418 | 10.418 | 10.426 | 10.442 | 10.442 | 7.442-13.442 | 10.426 | 0.009 |
| 26 1,2,4-Trichlorobenzene | 10.596 | 10.596 | 10.588 | 10.588 | 10.588 | 10.588 | 10.589 | 10.589 | 7.589-13.589 | 10.590 | 0.004 |
| * 27 Naphthalene-d8 | 10.673 | 10.673 | 10.665 | 10.665 | 10.665 | 10.666 | 10.666 | 10.666 | 7.666-13.666 | 10.668 | 0.004 |
| 28 Naphthalene | 10.719 | 10.712 | 10.704 | 10.704 | 10.704 | 10.704 | 10.704 | 10.704 | 7.704-13.704 | 10.707 | 0.006 |
| 29 4-Chloroaniline | 10.881 | 10.874 | 10.866 | 10.866 | 10.866 | 10.874 | 10.890 | 10.890 | 7.890-13.890 | 10.874 | 0.009 |

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt14.i\20230228.b\ABN.m
Batch File: \\target\share\chem3\nt14.i\20230228.b
Inst ID: nt14.i

| Compound | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | RT07 | EXPEC RT | RT WINDOW | AVG RT | STD DEV |
|---------------------------|--------|--------|--------|--------|--------|--------|--------|----------|---------------|--------|---------|
| 30 Hexachlorobutadiene | 11.090 | 11.082 | 11.082 | 11.082 | 11.082 | 11.083 | 11.083 | 11.083 | 8.083-14.083 | 11.084 | 0.003 |
| 31 4-Chloro-3-methylpheno | 11.872 | 11.856 | 11.856 | 11.849 | 11.849 | 11.857 | 11.872 | 11.872 | 8.872-14.872 | 11.859 | 0.010 |
| 32 2-Methylnaphthalene | 12.104 | 12.104 | 12.096 | 12.096 | 12.096 | 12.097 | 12.097 | 12.097 | 9.097-15.097 | 12.098 | 0.004 |
| 33 Hexachlorocyclopentadi | 12.576 | 12.568 | 12.568 | 12.568 | 12.568 | 12.561 | 12.561 | 12.561 | 9.561-15.561 | 12.567 | 0.005 |
| 34 2,4,6-Trichlorophenol | 12.746 | 12.739 | 12.731 | 12.731 | 12.731 | 12.731 | 12.747 | 12.747 | 9.747-15.747 | 12.736 | 0.007 |
| 35 2,4,5-Trichlorophenol | 12.816 | 12.808 | 12.800 | 12.801 | 12.808 | 12.809 | 12.832 | 12.832 | 9.832-15.832 | 12.810 | 0.011 |
| 36 2-Fluorobiphenyl | 12.901 | 12.893 | 12.893 | 12.886 | 12.886 | 12.886 | 12.894 | 12.894 | 9.894-15.894 | 12.891 | 0.006 |
| 37 2-Chloronaphthalene | 13.087 | 13.079 | 13.079 | 13.079 | 13.079 | 13.079 | 13.079 | 13.079 | 10.079-16.079 | 13.080 | 0.003 |
| 38 2-Nitroaniline | 13.389 | 13.373 | 13.365 | 13.358 | 13.358 | 13.366 | 13.373 | 13.373 | 10.373-16.373 | 13.369 | 0.011 |
| 39 Dimethylphthalate | 13.838 | 13.822 | 13.814 | 13.807 | 13.807 | 13.807 | 13.815 | 13.815 | 10.815-16.815 | 13.815 | 0.011 |
| 40 Acenaphthylene | 13.946 | 13.938 | 13.938 | 13.931 | 13.930 | 13.931 | 13.939 | 13.939 | 10.939-16.939 | 13.936 | 0.006 |
| 41 2,6-Dinitrotoluene | 13.969 | 13.946 | 13.938 | 13.938 | 13.930 | 13.931 | 13.939 | 13.939 | 10.939-16.939 | 13.942 | 0.013 |
| 42 Acenaphthene-d10 | 14.263 | 14.255 | 14.248 | 14.248 | 14.248 | 14.248 | 14.248 | 14.248 | 11.248-17.248 | 14.251 | 0.006 |
| 43 3-Nitroaniline | 14.248 | 14.224 | 14.217 | 14.209 | 14.209 | 14.217 | 14.233 | 14.233 | 11.233-17.233 | 14.222 | 0.014 |
| 44 Acenaphthene | 14.333 | 14.317 | 14.317 | 14.310 | 14.309 | 14.310 | 14.310 | 14.310 | 11.310-17.310 | 14.315 | 0.009 |
| 45 2,4-Dinitrophenol | 14.464 | 14.441 | 14.425 | 14.425 | 14.425 | 14.588 | +++++ | 14.425 | 11.425-17.425 | 14.462 | 0.064 |
| 46 Dibenzofuran | 14.665 | 14.650 | 14.642 | 14.642 | 14.642 | 14.642 | 14.642 | 14.642 | 11.642-17.642 | 14.646 | 0.009 |
| 47 4-Nitrophenol | 14.619 | 14.588 | 14.580 | 14.572 | 14.580 | 14.604 | +++++ | 14.580 | 11.580-17.580 | 14.590 | 0.017 |
| 48 2,4-Dinitrotoluene | 14.773 | 14.750 | 14.735 | 14.727 | 14.727 | 14.727 | 14.735 | 14.735 | 11.735-17.735 | 14.739 | 0.017 |
| 49 Fluorene | 15.369 | 15.353 | 15.345 | 15.346 | 15.346 | 15.346 | 15.346 | 15.346 | 12.346-18.346 | 15.350 | 0.009 |
| 50 Diethylphthalate | 15.291 | 15.276 | 15.268 | 15.260 | 15.260 | 15.253 | 15.261 | 15.261 | 12.261-18.261 | 15.267 | 0.013 |
| 51 4-Chlorophenyl-phenyle | 15.376 | 15.369 | 15.361 | 15.361 | 15.361 | 15.361 | 15.361 | 15.361 | 12.361-18.361 | 15.364 | 0.006 |
| 52 4-Nitroaniline | 15.546 | 15.500 | 15.477 | 15.469 | 15.469 | 15.469 | 15.493 | 15.493 | 12.493-18.493 | 15.489 | 0.028 |
| 53 4,6-Dinitro-2-methylph | 15.616 | 15.585 | 15.569 | 15.562 | 15.554 | 15.562 | 15.608 | 15.608 | 12.608-18.608 | 15.579 | 0.024 |

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt14.i\20230228.b\ABN.m
Batch File: \\target\share\chem3\nt14.i\20230228.b
Inst ID: nt14.i

| Compound | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | RT07 | EXPEC RT | RT WINDOW | AVG RT | STD DEV |
|----------------------------|--------|--------|--------|--------|--------|--------|--------|----------|---------------|--------|---------|
| 54 N-Nitrosodiphenylamine | 15.646 | 15.631 | 15.623 | 15.616 | 15.616 | 15.616 | 15.616 | 15.616 | 12.616-18.616 | 15.623 | 0.012 |
| 55 2,4,6-Tribromophenol | 15.901 | 15.886 | 15.885 | 15.878 | 15.886 | 15.886 | 15.894 | 15.894 | 12.894-18.894 | 15.888 | 0.007 |
| 56 4-Bromophenyl-phenylet | 16.364 | 16.356 | 16.356 | 16.348 | 16.348 | 16.349 | 16.349 | 16.349 | 13.349-19.349 | 16.353 | 0.006 |
| 57 Hexachlorobenzene | 16.657 | 16.650 | 16.642 | 16.642 | 16.642 | 16.642 | 16.634 | 16.634 | 13.634-19.634 | 16.644 | 0.007 |
| 58 Pentachlorophenol | 17.029 | 17.021 | 17.013 | 17.013 | 17.021 | 17.037 | +++++ | 17.021 | 14.021-20.021 | 17.022 | 0.009 |
| 59 Phenanthrene-d10 | 17.269 | 17.261 | 17.253 | 17.253 | 17.253 | 17.254 | 17.246 | 17.246 | 14.246-20.246 | 17.256 | 0.007 |
| 60 Phenanthrene | 17.323 | 17.307 | 17.300 | 17.300 | 17.300 | 17.300 | 17.300 | 17.300 | 14.300-20.300 | 17.304 | 0.009 |
| 61 Anthracene | 17.408 | 17.400 | 17.392 | 17.393 | 17.393 | 17.393 | 17.393 | 17.393 | 14.393-20.393 | 17.396 | 0.006 |
| 62 Carbazole | 17.756 | 17.748 | 17.741 | 17.741 | 17.741 | 17.741 | 17.749 | 17.749 | 14.749-20.749 | 17.745 | 0.006 |
| 63 Di-n-butylphthalate | 18.615 | 18.607 | 18.599 | 18.600 | 18.599 | 18.600 | 18.600 | 18.600 | 15.600-21.600 | 18.603 | 0.006 |
| 64 Fluoranthene | 19.737 | 19.729 | 19.721 | 19.721 | 19.721 | 19.722 | 19.722 | 19.722 | 16.722-22.722 | 19.725 | 0.006 |
| 65 Pyrene | 20.170 | 20.155 | 20.147 | 20.147 | 20.147 | 20.147 | 20.147 | 20.147 | 17.147-23.147 | 20.151 | 0.009 |
| 66 Terphenyl-d14 | 20.495 | 20.487 | 20.480 | 20.480 | 20.480 | 20.480 | 20.480 | 20.480 | 17.480-23.480 | 20.483 | 0.006 |
| 67 Butylbenzylphthalate | 21.455 | 21.455 | 21.447 | 21.448 | 21.448 | 21.448 | 21.448 | 21.448 | 18.448-24.448 | 21.450 | 0.004 |
| 68 Benzo(a)anthracene | 22.361 | 22.353 | 22.346 | 22.338 | 22.338 | 22.338 | 22.338 | 22.338 | 19.338-25.338 | 22.345 | 0.009 |
| 69 Chrysene-d12 | 22.384 | 22.377 | 22.377 | 22.369 | 22.369 | 22.369 | 22.362 | 22.362 | 19.362-25.362 | 22.372 | 0.007 |
| 70 3,3'-Dichlorobenzidine | 22.353 | 22.338 | 22.330 | 22.330 | 22.323 | 22.323 | 22.331 | 22.331 | 19.331-25.331 | 22.333 | 0.011 |
| 71 Chrysene | 22.439 | 22.423 | 22.415 | 22.415 | 22.408 | 22.408 | 22.416 | 22.416 | 19.416-25.416 | 22.418 | 0.011 |
| 72 bis(2-Ethylhexyl)phtha | 22.508 | 22.508 | 22.500 | 22.501 | 22.501 | 22.501 | 22.501 | 22.501 | 19.501-25.501 | 22.503 | 0.004 |
| 73 Di-n-octylphthalate | 23.499 | 23.499 | 23.491 | 23.492 | 23.491 | 23.492 | 23.484 | 23.484 | 20.484-26.484 | 23.493 | 0.005 |
| 74 Benzo(b)fluoranthene | 24.126 | 24.111 | 24.111 | 24.103 | 24.103 | 24.103 | 24.103 | 24.103 | 21.103-27.103 | 24.109 | 0.009 |
| 75 Benzo(k)fluoranthene | 24.165 | 24.150 | 24.142 | 24.142 | 24.134 | 24.142 | 24.134 | 24.134 | 21.134-27.134 | 24.144 | 0.011 |
| 187 Total Benzofluoranthen | 24.165 | 24.150 | 24.142 | 24.103 | 24.103 | 24.103 | 24.103 | 24.103 | 21.103-27.103 | 24.124 | 0.027 |
| 76 Benzo(a)pyrene | 24.645 | 24.630 | 24.630 | 24.622 | 24.622 | 24.622 | 24.622 | 24.622 | 21.622-27.622 | 24.627 | 0.009 |

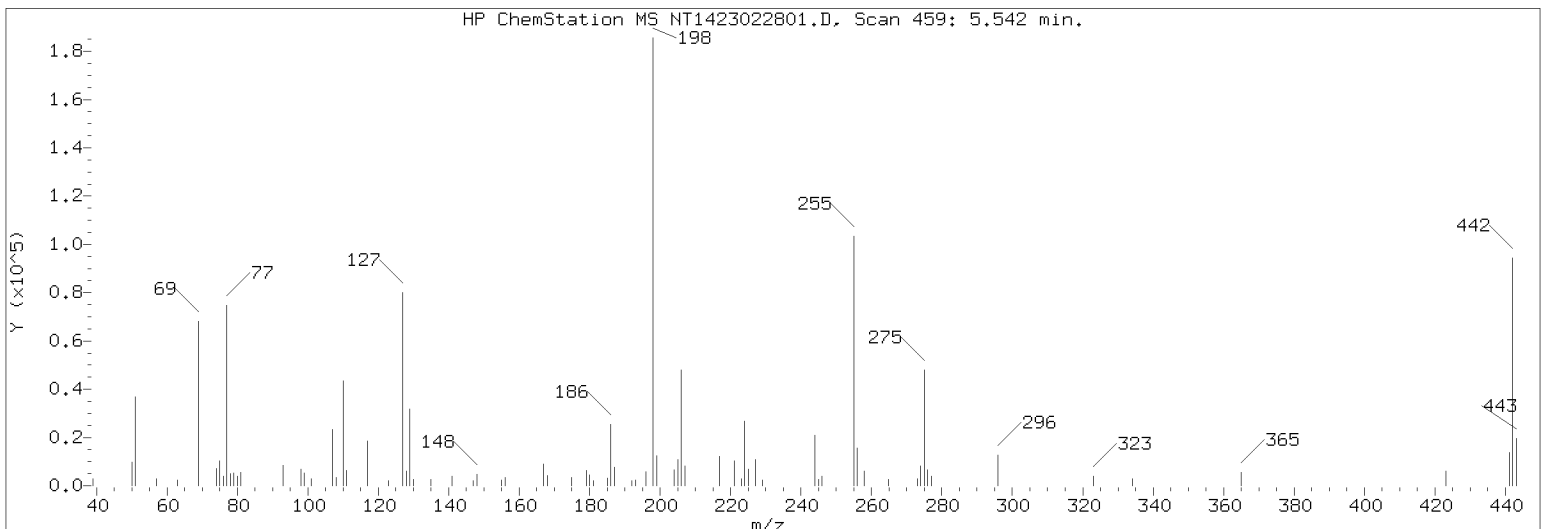
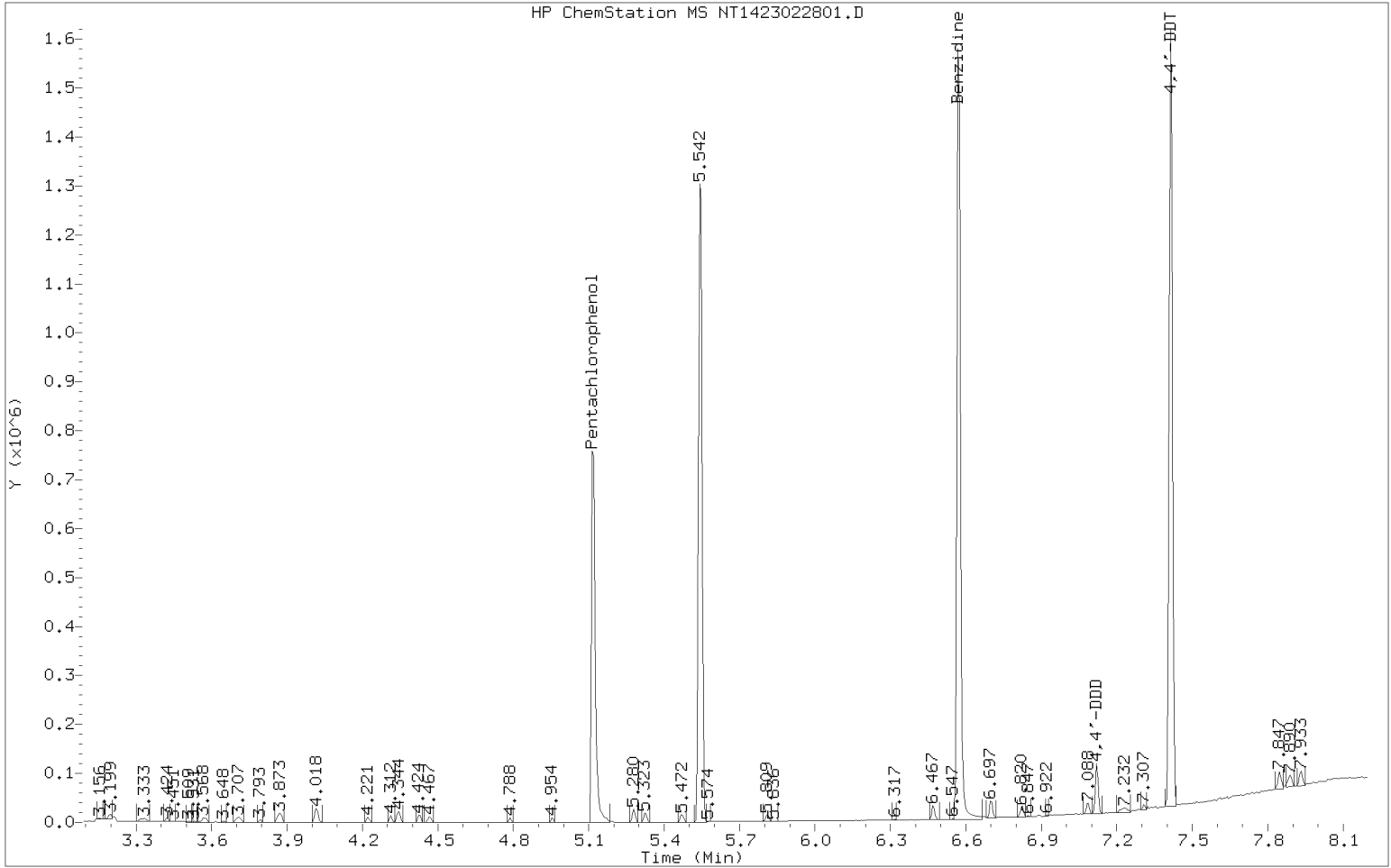
ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt14.i\20230228.b\ABN.m
Batch File: \\target\share\chem3\nt14.i\20230228.b
Inst ID: nt14.i

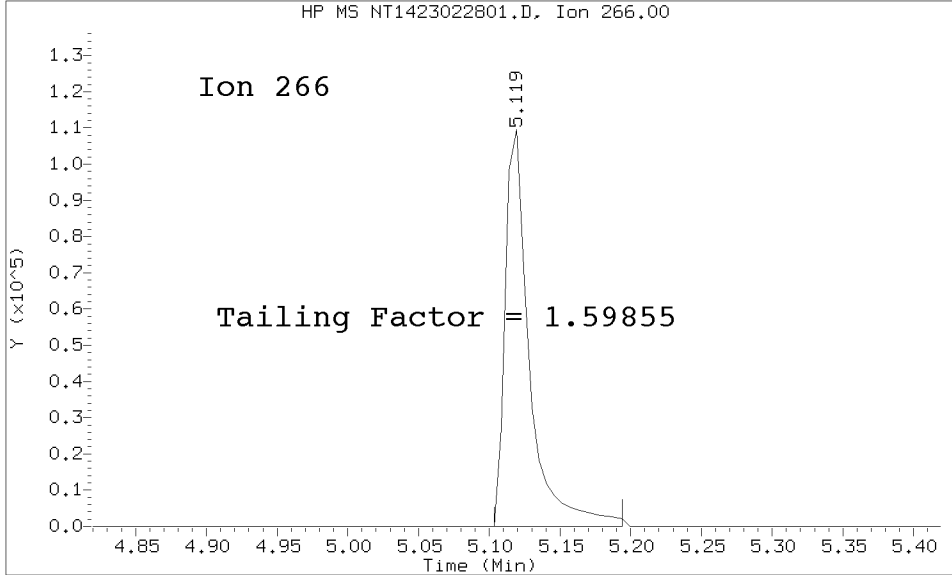
| Compound | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | RT07 | EXPEC RT | RT WINDOW | AVG RT | STD DEV |
|-------------------------------|--------|--------|--------|--------|--------|--------|--------|----------|---------------|--------|---------|
| * 77 Perylene-d12 | 24.730 | 24.723 | 24.722 | 24.715 | 24.715 | 24.715 | 24.715 | 24.715 | 21.715-27.715 | 24.719 | 0.006 |
| 78 Indeno(1,2,3-cd)pyrene | 26.832 | 26.808 | 26.800 | 26.793 | 26.785 | 26.785 | 26.793 | 26.793 | 23.793-29.793 | 26.800 | 0.016 |
| 79 Dibenzo(a,h)anthracene | 26.855 | 26.824 | 26.816 | 26.808 | 26.801 | 26.801 | 26.801 | 26.801 | 23.801-29.801 | 26.815 | 0.020 |
| 80 Benzo(g,h,i)perylene | 27.453 | 27.414 | 27.406 | 27.391 | 27.383 | 27.383 | 27.391 | 27.391 | 24.391-30.391 | 27.403 | 0.025 |
| \$ 85 p-Cresol-d4 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 51.633 | 48.633-54.633 | +++++ | +++++ |
| \$ 86 Anthracene-d10 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 63.533 | 60.533-66.533 | +++++ | +++++ |
| \$ 87 Fluoranthene-d10 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 60.273 | 57.273-63.273 | +++++ | +++++ |
| \$ 88 Dibenzo(a,h)anthracene- | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 78.600 | 75.600-81.600 | +++++ | +++++ |
| \$ 89 Diphenyl-d10 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 50.841 | 47.841-53.841 | +++++ | +++++ |
| 90 N-Nitrosodimethylamine | 4.027 | 4.012 | 4.004 | 3.997 | 4.004 | 4.012 | 4.105 | 4.105 | 1.105-7.105 | 4.023 | 0.037 |
| 91 Aniline | 7.720 | 7.704 | 7.696 | 7.697 | 7.696 | 7.705 | 7.735 | 7.735 | 4.735-10.735 | 7.708 | 0.015 |
| 92 1,2-Diphenylhydrazine | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 56.160 | 53.160-59.160 | +++++ | +++++ |
| 93 Benzidine | 20.015 | 20.008 | 20.000 | 20.000 | 20.008 | 20.008 | 20.016 | 20.016 | 17.016-23.016 | 20.008 | 0.006 |
| \$ 95 D10-1-methylnaphthalen | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 52.075 | 49.075-55.075 | +++++ | +++++ |
| 96 p-Cymene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 49.250 | 46.250-52.250 | +++++ | +++++ |
| 97 Caffeine | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 61.202 | 58.202-64.202 | +++++ | +++++ |
| 98 Retene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 18.787 | 15.787-21.787 | +++++ | +++++ |
| 99 Perylene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 24.361 | 21.361-27.361 | +++++ | +++++ |
| 100 3-beta-Coprostanol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 25.411 | 22.411-28.411 | +++++ | +++++ |
| 101 Cholesterol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 26.023 | 23.023-29.023 | +++++ | +++++ |
| 102 beta-Sitosterol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 79.550 | 76.550-82.550 | +++++ | +++++ |
| 103 Pyridine | 4.012 | 4.004 | 4.012 | 4.012 | 4.027 | 4.089 | +++++ | 4.027 | 1.027-7.027 | 4.026 | 0.032 |
| 188 2,6-Dichlorophenol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 11.874 | 8.874-14.874 | +++++ | +++++ |
| 189 N-Nitrosomethylethylam | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 5.818 | 2.818-8.818 | +++++ | +++++ |

DFTPP TAILING FACTOR AND BREAKDOWN GRAPHIC REPORT

Datafile Analyzed: /20230228.b/NT1423022801.D/NT1423022801.D
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 Injection Date: 28-FEB-2023 11:26 Operator: JGR
 Sample Info: SLB0374-TUN1 SLB0374-TUN1
 Report Date: 03/10/2023 13:22



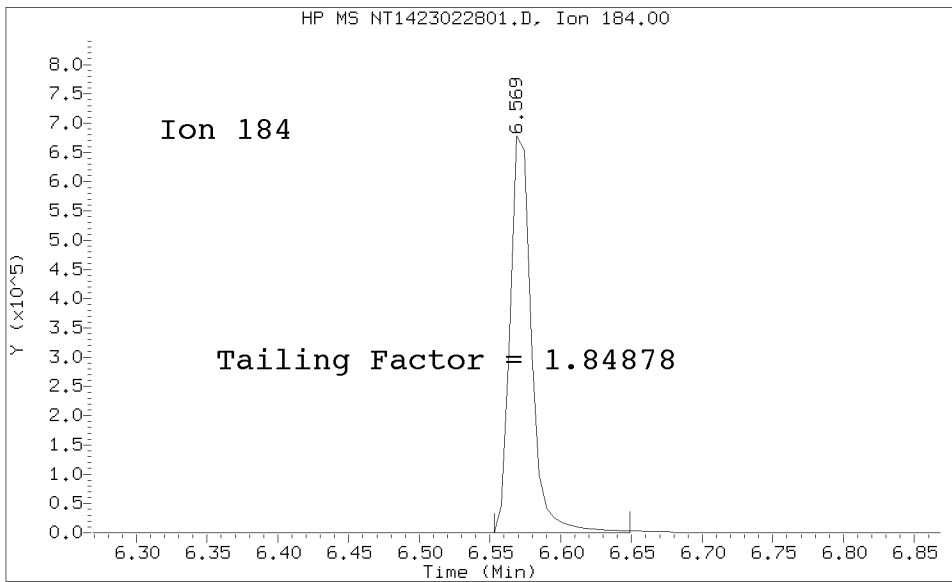
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Method Used: \20230228.b\DFTPP8270E.m\sw846ddt.m Inst: nt14
Injection Date: 28-FEB-2023 11:26 Operator: JGR
Sample Info: SLB0374-TUN1
Report Date: 03/10/2023 13:22



Pentachlorophenol

=====
Exp. RT = 5.114
Found RT = 5.119

Tail Factor = 1.599 Maximum Allowed = 2.0



Benzidine

=====
Exp. RT = 6.569
Found RT = 6.569

Tail Factor = 1.849 Maximum Allowed = 2.0

8270 TAILING FACTOR/BREAKDOWN SUMMARY RESULTS

TAILING ANALYSIS SUMMARY

| Compound | Tail Factor | Max Allowed | Test |
|-------------------|-------------|-------------|------|
| Pentachlorophenol | 1.5985490 | 2.000 | PASS |
| Benzidine | 1.8487805 | 2.000 | PASS |

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

| Compound | Response | %Breakdown | Max Allowed | Test |
|---------------|----------|------------|-------------|------|
| 4,4-DDT | 329453 | | | N/A |
| 4,4-DDE | 0 | 0.0 | 20.0 | PASS |
| 4,4-DDD | 27266 | 7.6 | 20.0 | PASS |
| 4,4-DDD + DDE | 27266 | 7.6 | 20.0 | PASS |

Tuning Sample, nt14.i/20230228.b/NT1423022801.D, *** PASSED ***

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 198 | Base Peak, 100% relative abundance | 100.00 |
| 68 | Less than 2.00% of mass 69 | 0.00 (0.00) |
| 69 | Mass 69 relative abundance | 36.45 |
| 70 | Less than 2.00% of mass 69 | 0.00 (0.00) |
| 197 | Less than 2.00% of mass 198 | 0.00 |
| 199 | 5.00 - 9.00% of mass 198 | 6.68 |
| 365 | 1.00 - 100.00% of mass 198 | 3.19 |
| 441 | Less than 150.00% of mass 443 | 8.05 (72.75) |
| 442 | Less than 200.00% of mass 198 | 55.70 |
| 443 | 15.00 - 24.00% of mass 442 | 11.06 (19.86) |

Data File: NT1423022801.D

Spectrum: Avg. Scans 458-460 (5.54), Background Scan 454

Location of Maximum: 198.00

Number of points: 81

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|--------|-------|--------|-------|--------|--------|--------|-------|
| 39.00 | 1657 | 111.00 | 5181 | 187.00 | 6163 | 256.00 | 13097 |
| 50.00 | 8048 | 117.00 | 15552 | 192.00 | 670 | 258.00 | 5162 |
| 51.00 | 29792 | 123.00 | 734 | 193.00 | 1610 | 265.00 | 1693 |
| 57.00 | 2542 | 127.00 | 65592 | 196.00 | 4837 | 273.00 | 2065 |
| 63.00 | 796 | 128.00 | 5072 | 198.00 | 154496 | 274.00 | 7299 |
| 69.00 | 56320 | 129.00 | 25912 | 199.00 | 10325 | 275.00 | 41256 |
| 74.00 | 5861 | 130.00 | 1691 | 204.00 | 5619 | 276.00 | 5638 |
| 75.00 | 8903 | 135.00 | 1686 | 205.00 | 9289 | 277.00 | 3469 |
| 76.00 | 3254 | 141.00 | 3424 | 206.00 | 40192 | 296.00 | 10926 |
| 77.00 | 61744 | 147.00 | 749 | 207.00 | 7142 | 323.00 | 2830 |
| 78.00 | 4358 | 148.00 | 4047 | 217.00 | 10352 | 334.00 | 1934 |
| 79.00 | 4457 | 155.00 | 768 | 221.00 | 8641 | 365.00 | 4928 |
| 80.00 | 3215 | 156.00 | 2880 | 223.00 | 1846 | 372.00 | 799 |
| 81.00 | 4594 | 167.00 | 7552 | 224.00 | 22544 | 423.00 | 5393 |
| 93.00 | 7180 | 168.00 | 3743 | 225.00 | 5687 | 441.00 | 12432 |
| 98.00 | 5732 | 175.00 | 2206 | 227.00 | 9264 | 442.00 | 86056 |
| 99.00 | 4413 | 179.00 | 5289 | 229.00 | 1539 | 443.00 | 17088 |
| 101.00 | 1800 | 180.00 | 3808 | 244.00 | 17592 | 444.00 | 724 |
| 107.00 | 19032 | 181.00 | 1392 | 245.00 | 1845 | | |
| 108.00 | 2825 | 185.00 | 2091 | 246.00 | 3444 | | |
| 110.00 | 35440 | 186.00 | 21032 | 255.00 | 87912 | | |

Data File: \\target\share\chem3\nt14,1\20230228,16\NT1423022802.D

Date: 28-FEB-2023 11:39

Client ID:

Sample Info: SLB0374-CAL7

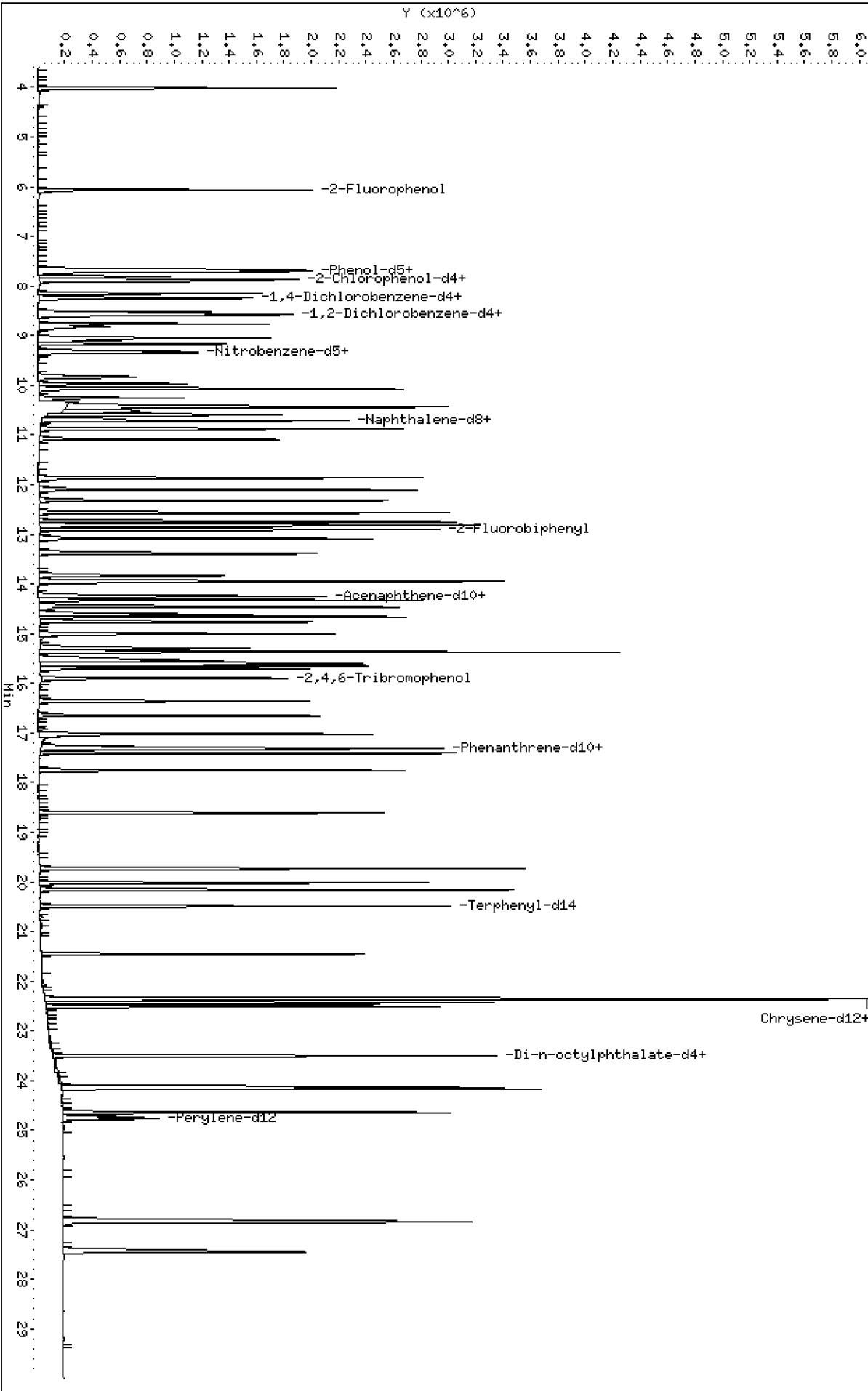
Column phase: ZB-5msi

Instrument: nt14,1

Operator: JGR

Column diameter: 0.25

\\target\share\chem3\nt14,1\20230228,16\NT1423022802.D



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230228.b\NT1423022802.D
 Lab Smp Id: SLB0374-CAL7
 Inj Date : 28-FEB-2023 11:39 MS Autotune Date: 17-MAY-2011 01:22
 Operator : JGR Inst ID: nt14.i
 Smp Info : SLB0374-CAL7
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt14.i\20230228.b\ABN.m
 Meth Date : 10-Mar-2023 12:09 van Quant Type: ISTD
 Cal Date : 28-FEB-2023 15:16 Cal File: NT1423022808.D
 Als bottle: 2 Calibration Sample, Level: 7
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: ICAL.sub
 Target Version: 4.14
 Processing Host: VANS-201906

| Compounds | QUANT | SIG | RT | EXP RT | REL RT | RESPONSE | AMOUNTS | |
|---------------------------------|-------|-----|--------|--------|---------|----------|---------|-----------|
| | | | | | | | CAL-AMT | ON-COL |
| | MASS | | | | | | (ug/mL) | (ug/mL) |
| \$ 1 2-Fluorophenol | 112 | | 6.066 | 6.128 | (0.738) | 946064 | 30.0000 | 30.78 |
| \$ 2 Phenol-d5 | 99 | | 7.665 | 7.665 | (0.932) | 1302204 | 30.0000 | 29.84 |
| 3 Phenol | 94 | | 7.688 | 7.681 | (0.935) | 930686 | 20.0000 | 17.87 |
| \$ 5 2-Chlorophenol-d4 | 132 | | 7.874 | 7.882 | (0.958) | 1113490 | 30.0000 | 30.00 |
| 4 Bis(2-Chloroethyl)ether | 93 | | 7.812 | 7.805 | (0.950) | 644777 | 20.0000 | 20.00 |
| 6 2-Chlorophenol | 128 | | 7.905 | 7.905 | (0.961) | 753438 | 20.0000 | 19.64 |
| 7 1,3-Dichlorobenzene | 146 | | 8.152 | 8.153 | (0.992) | 763691 | 20.0000 | 18.07 |
| * 8 1,4-Dichlorobenzene-d4 | 152 | | 8.222 | 8.207 | (1.000) | 113367 | 4.00000 | |
| 9 1,4-Dichlorobenzene | 146 | | 8.245 | 8.246 | (1.003) | 793044 | 20.0000 | 18.98 |
| \$ 10 1,2-Dichlorobenzene-d4 | 152 | | 8.571 | 8.572 | (1.042) | 500196 | 20.0000 | 17.90 |
| 12 1,2-Dichlorobenzene | 146 | | 8.595 | 8.595 | (1.045) | 717900 | 20.0000 | 17.92 |
| 11 Benzyl alcohol | 108 | | 8.525 | 8.688 | (1.037) | 484604 | 20.0000 | 19.97 |
| 14 2,2'-oxybis(1-Chloropropane) | 121 | | 8.820 | 8.812 | (1.073) | 207751 | 20.0000 | 19.23 (M) |
| 13 2-Methylphenol | 108 | | 8.765 | 8.774 | (1.066) | 663663 | 20.0000 | 20.17 |
| 17 Hexachloroethane | 117 | | 9.169 | 9.162 | (1.115) | 311032 | 20.0000 | 19.82 |
| 16 N-Nitroso-di-n-propylamine | 70 | | 9.099 | 9.076 | (1.107) | 515663 | 20.0000 | 20.59 |
| 15 4-Methylphenol | 108 | | 9.053 | 9.069 | (1.101) | 707698 | 20.0000 | 19.98 |
| \$ 18 Nitrobenzene-d5 | 82 | | 9.316 | 9.317 | (0.873) | 847349 | 20.0000 | 20.42 |
| 19 Nitrobenzene | 77 | | 9.355 | 9.356 | (0.877) | 787177 | 20.0000 | 19.74 |
| 20 Isophorone | 82 | | 9.829 | 9.806 | (0.921) | 1166249 | 20.0000 | 19.96 (M) |
| 21 2-Nitrophenol | 139 | | 9.968 | 9.992 | (0.934) | 423415 | 20.0000 | 19.95 |
| 22 2,4-Dimethylphenol | 107 | | 10.077 | 10.062 | (0.944) | 1310046 | 40.0000 | 36.04 |
| 23 Bis(2-Chloroethoxy)methane | 93 | | 10.255 | 10.256 | (0.961) | 743374 | 20.0000 | 18.55 |
| 24 Benzoic acid | 105 | | 10.541 | 10.665 | (0.988) | 1944657 | 80.0000 | 135.0 (M) |
| 25 2,4-Dichlorophenol | 162 | | 10.433 | 10.441 | (0.978) | 1247212 | 40.0000 | 40.02 |
| 26 1,2,4-Trichlorobenzene | 180 | | 10.595 | 10.588 | (0.993) | 725869 | 20.0000 | 17.67 |
| * 27 Naphthalene-d8 | 136 | | 10.673 | 10.665 | (1.000) | 424117 | 4.00000 | |
| 28 Naphthalene | 128 | | 10.719 | 10.704 | (1.004) | 2033381 | 20.0000 | 17.97 |
| 29 4-Chloroaniline | 127 | | 10.881 | 10.889 | (1.020) | 1852444 | 40.0000 | 38.28 |
| 30 Hexachlorobutadiene | 225 | | 11.090 | 11.082 | (1.039) | 504805 | 20.0000 | 20.14 |
| 31 4-Chloro-3-methylphenol | 107 | | 11.871 | 11.872 | (1.112) | 1264968 | 40.0000 | 38.67 |
| 32 2-Methylnaphthalene | 142 | | 12.103 | 12.096 | (1.134) | 1555789 | 20.0000 | 18.57 |
| 33 Hexachlorocyclopentadiene | 237 | | 12.576 | 12.560 | (0.882) | 1088301 | 40.0000 | 39.91 |

| Compounds | QUANT SIG | | | | AMOUNTS | | |
|-----------------------------------|-----------|--------|--------|---------|----------|--------------------|-------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| 34 2,4,6-Trichlorophenol | 196 | 12.746 | 12.746 | (0.894) | 1055096 | 40.0000 | 43.02 |
| 35 2,4,5-Trichlorophenol | 196 | 12.815 | 12.831 | (0.899) | 1148251 | 40.0000 | 43.30 |
| § 36 2-Fluorobiphenyl | 172 | 12.901 | 12.893 | (0.905) | 1839081 | 20.0000 | 18.82 |
| 37 2-Chloronaphthalene | 162 | 13.086 | 13.079 | (0.918) | 1506287 | 20.0000 | 19.23 |
| 38 2-Nitroaniline | 65 | 13.388 | 13.373 | (0.939) | 833587 | 40.0000 | 40.80 |
| 39 Dimethylphthalate | 163 | 13.837 | 13.814 | (0.970) | 1523049 | 20.0000 | 19.28 |
| 40 Acenaphthylene | 152 | 13.945 | 13.938 | (0.978) | 2120505 | 20.0000 | 18.45 |
| 41 2,6-Dinitrotoluene | 165 | 13.969 | 13.938 | (0.979) | 715264 | 40.0000 | 38.65 |
| * 42 Acenaphthene-d10 | 164 | 14.263 | 14.247 | (1.000) | 251095 | 4.00000 | |
| 43 3-Nitroaniline | 138 | 14.247 | 14.232 | (0.999) | 801339 | 40.0000 | 42.24 |
| 44 Acenaphthene | 153 | 14.332 | 14.309 | (1.005) | 1385189 | 20.0000 | 18.82 |
| 45 2,4-Dinitrophenol | 184 | 14.464 | 14.425 | (1.014) | 1197739 | 80.0000 | 79.67 |
| 46 Dibenzofuran | 168 | 14.665 | 14.642 | (1.028) | 2217853 | 20.0000 | 18.94 |
| 47 4-Nitrophenol | 109 | 14.618 | 14.580 | (1.025) | 432142 | 40.0000 | 39.90 |
| 48 2,4-Dinitrotoluene | 165 | 14.773 | 14.734 | (1.036) | 1106407 | 40.0000 | 41.53 |
| 50 Diethylphthalate | 149 | 15.291 | 15.260 | (1.072) | 1468168 | 20.0000 | 19.88 |
| 49 Fluorene | 166 | 15.368 | 15.345 | (1.078) | 1746904 | 20.0000 | 17.70 |
| 51 4-Chlorophenyl-phenylether | 204 | 15.376 | 15.361 | (1.078) | 908784 | 20.0000 | 17.31 |
| 52 4-Nitroaniline | 138 | 15.546 | 15.492 | (1.090) | 831530 | 40.0000 | 44.22 |
| 53 4,6-Dinitro-2-methylphenol | 198 | 15.615 | 15.608 | (0.904) | 1382965 | 80.0000 | 79.86 |
| 54 N-Nitrosodiphenylamine | 169 | 15.646 | 15.616 | (0.906) | 1171539 | 20.0000 | 18.75 |
| § 55 2,4,6-Tribromophenol | 330 | 15.900 | 15.893 | (1.115) | 473949 | 30.0000 | 29.95 |
| 56 4-Bromophenyl-phenylether | 248 | 16.363 | 16.348 | (0.948) | 564536 | 20.0000 | 20.55 |
| 57 Hexachlorobenzene | 284 | 16.657 | 16.634 | (0.965) | 570428 | 20.0000 | 18.89 |
| 58 Pentachlorophenol | 266 | 17.028 | 17.021 | (0.986) | 733383 | 40.0000 | 39.90 |
| * 59 Phenanthrene-d10 | 188 | 17.268 | 17.245 | (1.000) | 497175 | 4.00000 | |
| 60 Phenanthrene | 178 | 17.322 | 17.300 | (1.003) | 2425053 | 20.0000 | 18.34 |
| 61 Anthracene | 178 | 17.407 | 17.392 | (1.008) | 2490916 | 20.0000 | 19.92 |
| 62 Carbazole | 167 | 17.756 | 17.748 | (1.028) | 2249912 | 20.0000 | 20.53 |
| 63 Di-n-butylphthalate | 149 | 18.614 | 18.599 | (1.078) | 2636158 | 20.0000 | 19.98 |
| 64 Fluoranthene | 202 | 19.736 | 19.721 | (0.882) | 2876593 | 20.0000 | 19.94 |
| 65 Pyrene | 202 | 20.170 | 20.147 | (0.901) | 2898538 | 20.0000 | 19.06 |
| § 66 Terphenyl-d14 | 244 | 20.495 | 20.480 | (0.916) | 2078821 | 20.0000 | 17.75 |
| 67 Butylbenzylphthalate | 149 | 21.455 | 21.447 | (0.958) | 998361 | 20.0000 | 19.97 |
| 68 Benzo(a)anthracene | 228 | 22.361 | 22.338 | (0.999) | 2039604 | 20.0000 | 16.01 |
| * 69 Chrysene-d12 | 240 | 22.384 | 22.361 | (1.000) | 380267 | 4.00000 | |
| 70 3,3'-Dichlorobenzidine | 252 | 22.353 | 22.330 | (0.999) | 2046942 | 60.0000 | 56.27 |
| 71 Chrysene | 228 | 22.438 | 22.415 | (1.002) | 2224319 | 20.0000 | 18.17 |
| 72 bis(2-Ethylhexyl)phthalate | 149 | 22.508 | 22.500 | (0.958) | 1459766 | 20.0000 | 19.99 |
| * 134 Di-n-octylphthalate-d4 | 153 | 23.491 | 23.476 | (1.000) | 489751 | 4.00000 | |
| 73 Di-n-octylphthalate | 149 | 23.499 | 23.484 | (1.000) | 2368651 | 20.0000 | 18.37 |
| 74 Benzo(b)fluoranthene | 252 | 24.126 | 24.103 | (0.976) | 2421791 | 20.0000 | 19.65 |
| 75 Benzo(k)fluoranthene | 252 | 24.165 | 24.134 | (0.977) | 2506040 | 20.0000 | 18.85 |
| 76 Benzo(a)pyrene | 252 | 24.645 | 24.622 | (0.997) | 2180870 | 20.0000 | 20.63 |
| * 77 Perylene-d12 | 264 | 24.730 | 24.715 | (1.000) | 372957 | 4.00000 | |
| 78 Indeno(1,2,3-cd)pyrene | 276 | 26.831 | 26.793 | (1.085) | 2690266 | 20.0000 | 20.22 |
| 79 Dibenzo(a,h)anthracene | 278 | 26.854 | 26.800 | (1.086) | 2181506 | 20.0000 | 19.30 |
| 80 Benzo(g,h,i)perylene | 276 | 27.452 | 27.391 | (1.110) | 2454031 | 20.0000 | 21.14 |
| 90 N-Nitrosodimethylamine | 74 | 4.027 | 4.104 | (0.490) | 718646 | 40.0000 | 39.95 |
| 91 Aniline | 93 | 7.719 | 7.735 | (0.939) | 1772141 | 40.0000 | 39.93 |
| 93 Benzidine | 184 | 20.015 | 20.015 | (0.894) | 2174972 | 40.0000 | 39.75 |
| 103 Pyridine | 79 | 4.011 | 4.027 | (0.488) | 1163730 | 20.0000 | 19.98 |
| 105 1-methylnaphthalene | 142 | 12.320 | 12.313 | (1.154) | 1433206 | 20.0000 | 18.58 |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77 | 15.708 | 15.677 | (1.101) | 1578003 | 20.0000 | 18.61 |

| Compounds | QUANT SIG | | | | | | AMOUNTS | |
|-------------------------------|-----------|--|--------|--------|---------|----------|--------------------|-------------------|
| | MASS | | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| 187 Total Benzofluoranthenes | 252 | | 24.165 | 24.103 | (0.977) | 4596520 | 40.0000 | 38.13 |
| 120 2,3,4,6-Tetrachlorophenol | 232 | | 15.005 | 15.029 | (1.052) | 635967 | 20.0000 | 19.96 |

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 28-FEB-2023
 Lab File ID: NT1423022802.D Calibration Time: 12:51
 Lab Smp Id: SLB0374-CAL7
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: JGR
 Method File: \\target\share\chem3\nt14.i\20230228.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 114351 | 57176 | 228702 | 113367 | -0.86 |
| 27 Naphthalene-d8 | 408655 | 204328 | 817310 | 424117 | 3.78 |
| 42 Acenaphthene-d10 | 254000 | 127000 | 508000 | 251095 | -1.14 |
| 59 Phenanthrene-d10 | 490626 | 245313 | 981252 | 497175 | 1.33 |
| 69 Chrysene-d12 | 390400 | 195200 | 780800 | 380267 | -2.60 |
| 134 Di-n-octylphthala | 500829 | 250415 | 1001658 | 489751 | -2.21 |
| 77 Perylene-d12 | 375675 | 187838 | 751350 | 372957 | -0.72 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 8.21 | 7.71 | 8.71 | 8.22 | 0.10 |
| 27 Naphthalene-d8 | 10.67 | 10.17 | 11.17 | 10.67 | 0.07 |
| 42 Acenaphthene-d10 | 14.25 | 13.75 | 14.75 | 14.26 | 0.11 |
| 59 Phenanthrene-d10 | 17.25 | 16.75 | 17.75 | 17.27 | 0.09 |
| 69 Chrysene-d12 | 22.38 | 21.88 | 22.88 | 22.38 | 0.03 |
| 134 Di-n-octylphthala | 23.48 | 22.98 | 23.98 | 23.49 | 0.03 |
| 77 Perylene-d12 | 24.72 | 24.22 | 25.22 | 24.73 | 0.03 |

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

REVIEW SUMMARY FOR FILE - NT1423022802.D

Lab ID: SLB0374-CAL7
nt14.i, ABN.m, 28-FEB-2023 11:39

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT | CCV RRT | DELTA | COMPOUND |
|-------|---------|---------|------------------------|
| 1.037 | 1.059 | -0.0218 | Benzyl alcohol |
| 0.988 | 0.000 | 0.9877 | Benzoic acid |
| 1.014 | 0.000 | 1.0141 | 2,4-Dinitrophenol |
| 1.025 | 0.000 | 1.0249 | 4-Nitrophenol |
| 0.986 | 0.000 | 0.9861 | Pentachlorophenol |
| 0.490 | 0.500 | -0.0103 | N-Nitrosodimethylamine |
| 0.488 | 0.000 | 0.4879 | Pyridine |
| 0.738 | 0.747 | -0.0090 | 2-Fluorophenol |

RRT check based on Ccal File: NT1423022808.D

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

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

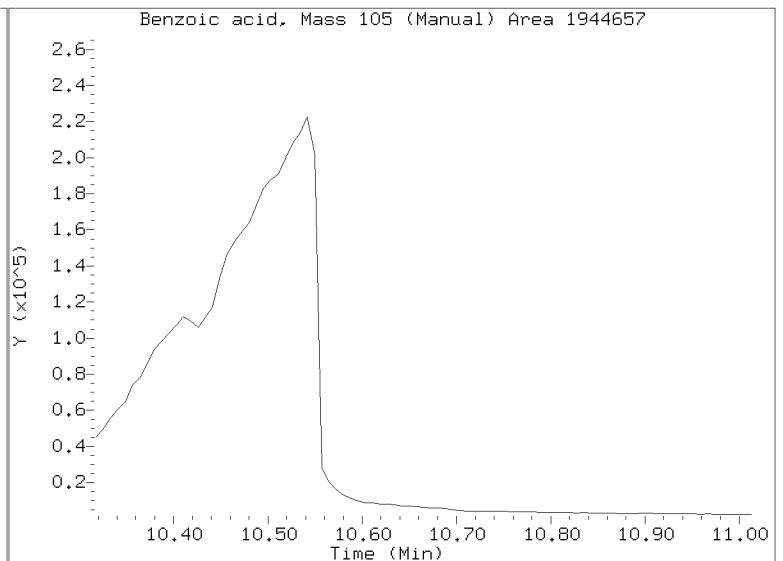
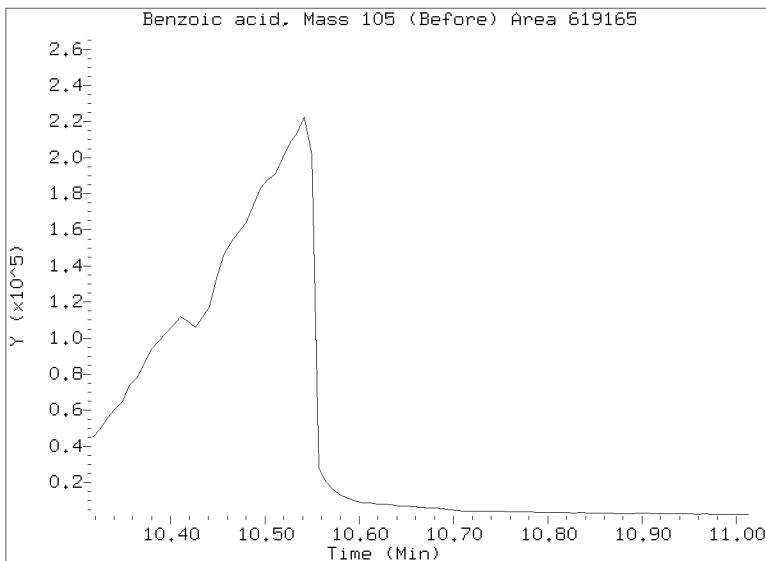
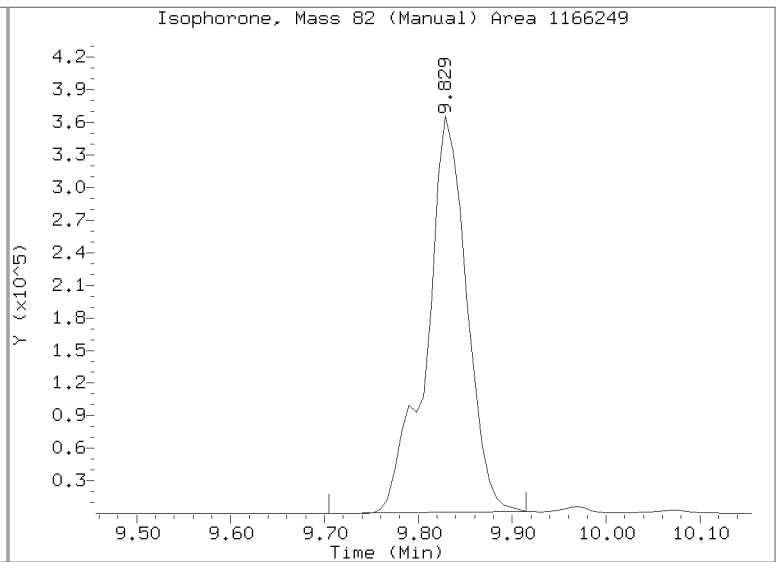
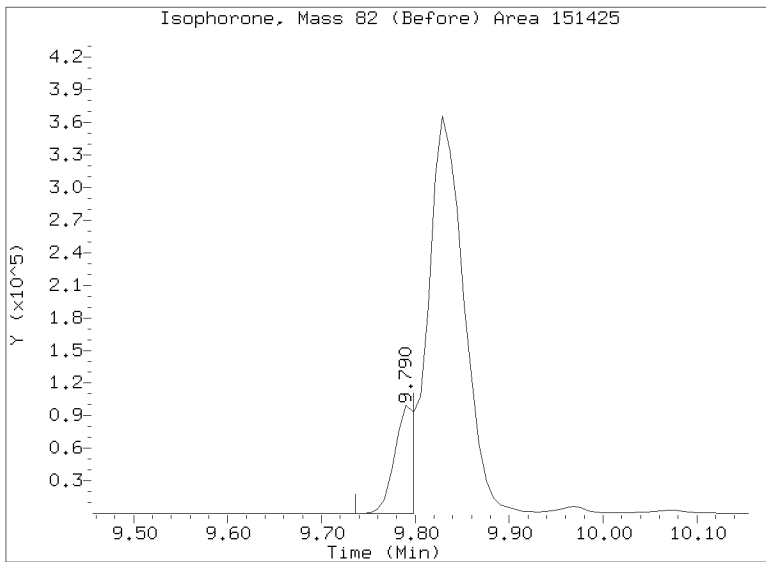
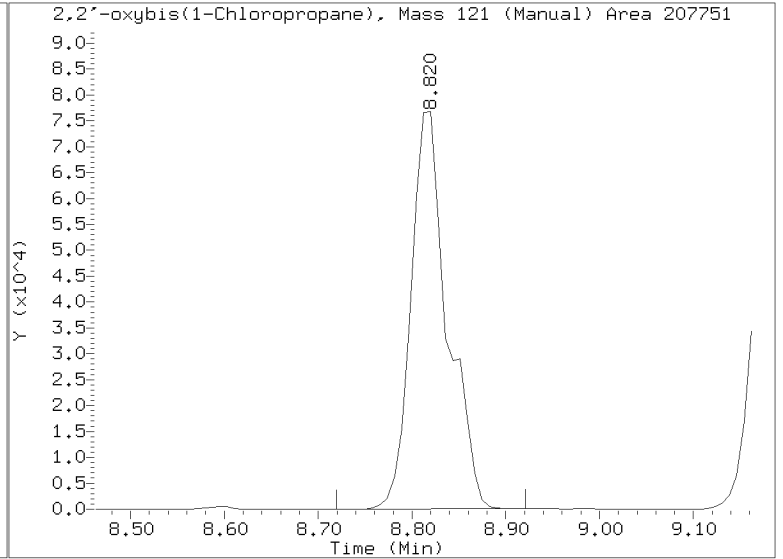
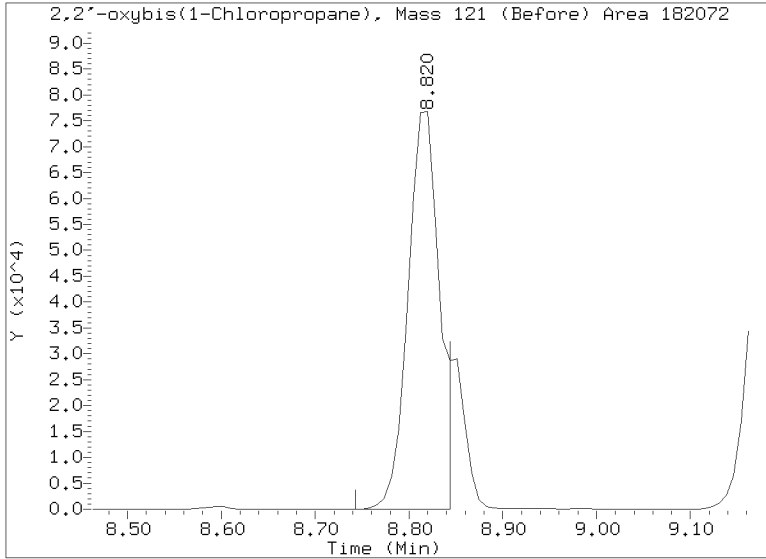
Quant Ion Manual Peak Adjustment Report

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Injection Date: 28-FEB-2023 11:39

Lab ID: SLB0374-CAL7 Client ID:

Report Date: 03/10/2023 13:21



Data File: \\target\share\chem3\nt14,1\20230228,16\NT1423022803.D

Date: 28-FEB-2023 12:15

Client ID:

Sample Info: SLB0374-CAL6

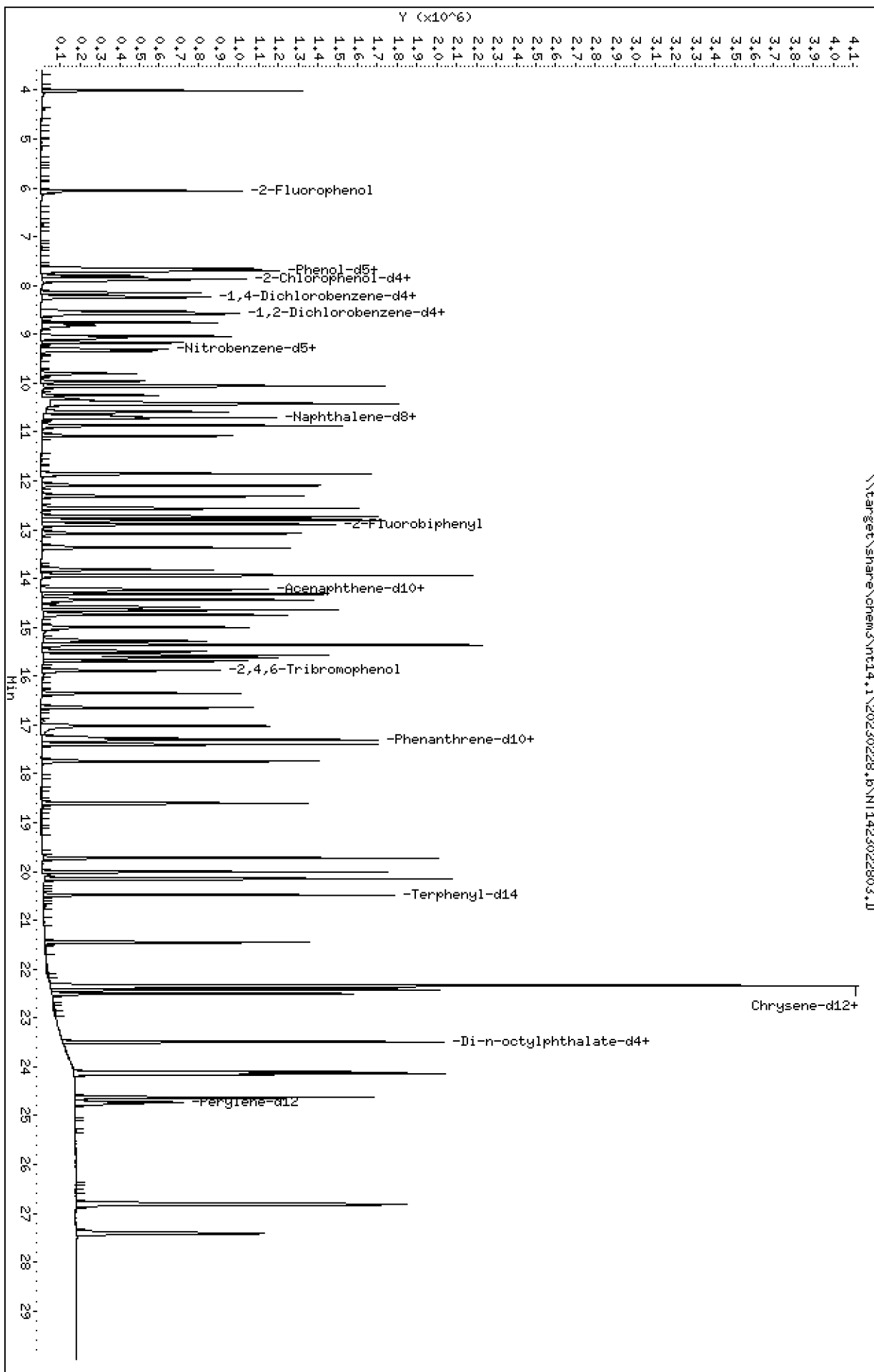
Column phase: ZB-5msi

Instrument: nt14,1

Operator: JGR

Column diameter: 0.25

Page 1



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230228.b\NT1423022803.D
 Lab Smp Id: SLB0374-CAL6
 Inj Date : 28-FEB-2023 12:15 MS Autotune Date: 17-MAY-2011 01:22
 Operator : JGR Inst ID: nt14.i
 Smp Info : SLB0374-CAL6
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt14.i\20230228.b\ABN.m
 Meth Date : 10-Mar-2023 12:09 van Quant Type: ISTD
 Cal Date : 28-FEB-2023 15:16 Cal File: NT1423022808.D
 Als bottle: 3 Calibration Sample, Level: 6
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: ICAL.sub
 Target Version: 4.14
 Processing Host: VANS-201906

| Compounds | QUANT | SIG | RT | EXP RT | REL RT | RESPONSE | AMOUNTS | |
|---------------------------------|-------|-----|--------|--------|---------|----------|---------|-----------|
| | | | | | | | CAL-AMT | ON-COL |
| | MASS | | | | | | (ug/mL) | (ug/mL) |
| \$ 1 2-Fluorophenol | 112 | | 6.058 | 6.128 | (0.738) | 494098 | 15.0000 | 16.62 |
| \$ 2 Phenol-d5 | 99 | | 7.650 | 7.665 | (0.931) | 684715 | 15.0000 | 16.22 |
| 3 Phenol | 94 | | 7.673 | 7.681 | (0.934) | 513527 | 10.0000 | 10.20 |
| \$ 5 2-Chlorophenol-d4 | 132 | | 7.866 | 7.882 | (0.958) | 570524 | 15.0000 | 15.89 |
| 4 Bis(2-Chloroethyl)ether | 93 | | 7.804 | 7.805 | (0.950) | 331952 | 10.0000 | 10.02 |
| 6 2-Chlorophenol | 128 | | 7.897 | 7.905 | (0.961) | 387348 | 10.0000 | 10.44 |
| 7 1,3-Dichlorobenzene | 146 | | 8.152 | 8.153 | (0.992) | 391022 | 10.0000 | 9.563 |
| * 8 1,4-Dichlorobenzene-d4 | 152 | | 8.214 | 8.207 | (1.000) | 109658 | 4.00000 | |
| 9 1,4-Dichlorobenzene | 146 | | 8.245 | 8.246 | (1.004) | 405468 | 10.0000 | 10.03 |
| \$ 10 1,2-Dichlorobenzene-d4 | 152 | | 8.564 | 8.572 | (1.043) | 258300 | 10.0000 | 9.558 |
| 12 1,2-Dichlorobenzene | 146 | | 8.595 | 8.595 | (1.046) | 371021 | 10.0000 | 9.575 |
| 11 Benzyl alcohol | 108 | | 8.517 | 8.688 | (1.037) | 230349 | 10.0000 | 10.16 |
| 14 2,2'-oxybis(1-Chloropropane) | 121 | | 8.812 | 8.812 | (1.073) | 103420 | 10.0000 | 9.897 |
| 13 2-Methylphenol | 108 | | 8.758 | 8.774 | (1.066) | 363647 | 10.0000 | 11.43 |
| 17 Hexachloroethane | 117 | | 9.169 | 9.162 | (1.116) | 156006 | 10.0000 | 10.28 |
| 16 N-Nitroso-di-n-propylamine | 70 | | 9.076 | 9.076 | (1.105) | 257037 | 10.0000 | 10.61 |
| 15 4-Methylphenol | 108 | | 9.037 | 9.069 | (1.100) | 359229 | 10.0000 | 10.10 |
| \$ 18 Nitrobenzene-d5 | 82 | | 9.309 | 9.317 | (0.872) | 420892 | 10.0000 | 10.81 |
| 19 Nitrobenzene | 77 | | 9.340 | 9.356 | (0.875) | 394359 | 10.0000 | 10.54 |
| 20 Isophorone | 82 | | 9.805 | 9.806 | (0.919) | 574873 | 10.0000 | 10.17 |
| 21 2-Nitrophenol | 139 | | 9.961 | 9.992 | (0.933) | 200731 | 10.0000 | 10.22 |
| 22 2,4-Dimethylphenol | 107 | | 10.061 | 10.062 | (0.943) | 688872 | 20.0000 | 20.19 |
| 23 Bis(2-Chloroethoxy)methane | 93 | | 10.247 | 10.256 | (0.960) | 372533 | 10.0000 | 9.902 |
| 24 Benzoic acid | 105 | | 10.433 | 10.665 | (0.978) | 669306 | 40.0000 | 49.51 (M) |
| 25 2,4-Dichlorophenol | 162 | | 10.426 | 10.441 | (0.977) | 626659 | 20.0000 | 19.87 |
| 26 1,2,4-Trichlorobenzene | 180 | | 10.595 | 10.588 | (0.993) | 365725 | 10.0000 | 9.486 |
| * 27 Naphthalene-d8 | 136 | | 10.673 | 10.665 | (1.000) | 398074 | 4.00000 | |
| 28 Naphthalene | 128 | | 10.711 | 10.704 | (1.004) | 1017872 | 10.0000 | 9.586 |
| 29 4-Chloroaniline | 127 | | 10.873 | 10.889 | (1.019) | 923353 | 20.0000 | 20.33 |
| 30 Hexachlorobutadiene | 225 | | 11.082 | 11.082 | (1.038) | 225326 | 10.0000 | 9.578 |
| 31 4-Chloro-3-methylphenol | 107 | | 11.856 | 11.872 | (1.111) | 649802 | 20.0000 | 21.16 |
| 32 2-Methylnaphthalene | 142 | | 12.103 | 12.096 | (1.134) | 793330 | 10.0000 | 10.09 |
| 33 Hexachlorocyclopentadiene | 237 | | 12.568 | 12.560 | (0.882) | 535730 | 20.0000 | 20.41 |

| Compounds | QUANT SIG | | | | | AMOUNTS | |
|-----------------------------------|-----------|--------|--------|---------|----------|--------------------|-------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| 34 2,4,6-Trichlorophenol | 196 | 12.738 | 12.746 | (0.894) | 519878 | 20.0000 | 21.64 |
| 35 2,4,5-Trichlorophenol | 196 | 12.808 | 12.831 | (0.898) | 573203 | 20.0000 | 22.07 |
| § 36 2-Fluorobiphenyl | 172 | 12.893 | 12.893 | (0.904) | 919972 | 10.0000 | 9.610 |
| 37 2-Chloronaphthalene | 162 | 13.079 | 13.079 | (0.917) | 764624 | 10.0000 | 9.964 |
| 38 2-Nitroaniline | 65 | 13.373 | 13.373 | (0.938) | 424060 | 20.0000 | 21.19 |
| 39 Dimethylphthalate | 163 | 13.822 | 13.814 | (0.970) | 782335 | 10.0000 | 10.11 |
| 40 Acenaphthylene | 152 | 13.938 | 13.938 | (0.978) | 1102399 | 10.0000 | 9.790 |
| 41 2,6-Dinitrotoluene | 165 | 13.945 | 13.938 | (0.978) | 366636 | 20.0000 | 20.22 |
| * 42 Acenaphthene-d10 | 164 | 14.255 | 14.247 | (1.000) | 245951 | 4.00000 | |
| 43 3-Nitroaniline | 138 | 14.224 | 14.232 | (0.998) | 403089 | 20.0000 | 21.69 |
| 44 Acenaphthene | 153 | 14.317 | 14.309 | (1.004) | 702718 | 10.0000 | 9.747 |
| 45 2,4-Dinitrophenol | 184 | 14.440 | 14.425 | (1.013) | 533957 | 40.0000 | 41.90 |
| 46 Dibenzofuran | 168 | 14.649 | 14.642 | (1.028) | 1122195 | 10.0000 | 9.783 |
| 47 4-Nitrophenol | 109 | 14.587 | 14.580 | (1.023) | 201125 | 20.0000 | 20.52 |
| 48 2,4-Dinitrotoluene | 165 | 14.750 | 14.734 | (1.035) | 546428 | 20.0000 | 20.94 |
| 50 Diethylphthalate | 149 | 15.275 | 15.260 | (1.072) | 748738 | 10.0000 | 10.35 |
| 49 Fluorene | 166 | 15.353 | 15.345 | (1.077) | 931735 | 10.0000 | 9.640 |
| 51 4-Chlorophenyl-phenylether | 204 | 15.368 | 15.361 | (1.078) | 491118 | 10.0000 | 9.550 |
| 52 4-Nitroaniline | 138 | 15.499 | 15.492 | (1.087) | 404434 | 20.0000 | 21.96 |
| 53 4,6-Dinitro-2-methylphenol | 198 | 15.584 | 15.608 | (0.903) | 670158 | 40.0000 | 40.61 |
| 54 N-Nitrosodiphenylamine | 169 | 15.631 | 15.616 | (0.906) | 598028 | 10.0000 | 9.808 |
| § 55 2,4,6-Tribromophenol | 330 | 15.885 | 15.893 | (1.114) | 216848 | 15.0000 | 15.29 |
| 56 4-Bromophenyl-phenylether | 248 | 16.355 | 16.348 | (0.948) | 276034 | 10.0000 | 10.30 |
| 57 Hexachlorobenzene | 284 | 16.649 | 16.634 | (0.965) | 287835 | 10.0000 | 9.766 |
| 58 Pentachlorophenol | 266 | 17.021 | 17.021 | (0.986) | 317169 | 20.0000 | 20.58 |
| * 59 Phenanthrene-d10 | 188 | 17.260 | 17.245 | (1.000) | 485216 | 4.00000 | |
| 60 Phenanthrene | 178 | 17.307 | 17.300 | (1.003) | 1223400 | 10.0000 | 9.478 |
| 61 Anthracene | 178 | 17.400 | 17.392 | (1.008) | 1256888 | 10.0000 | 10.30 |
| 62 Carbazole | 167 | 17.748 | 17.748 | (1.028) | 1107797 | 10.0000 | 10.36 |
| 63 Di-n-butylphthalate | 149 | 18.607 | 18.599 | (1.078) | 1339003 | 10.0000 | 10.06 |
| 64 Fluoranthene | 202 | 19.729 | 19.721 | (0.882) | 1475713 | 10.0000 | 10.23 |
| 65 Pyrene | 202 | 20.154 | 20.147 | (0.901) | 1508014 | 10.0000 | 9.918 |
| § 66 Terphenyl-d14 | 244 | 20.487 | 20.480 | (0.916) | 1119133 | 10.0000 | 9.560 |
| 67 Butylbenzylphthalate | 149 | 21.455 | 21.447 | (0.959) | 523743 | 10.0000 | 10.12 |
| 68 Benzo(a)anthracene | 228 | 22.353 | 22.338 | (0.999) | 1259344 | 10.0000 | 9.891 |
| * 69 Chrysene-d12 | 240 | 22.376 | 22.361 | (1.000) | 380106 | 4.00000 | |
| 70 3,3'-Dichlorobenzidine | 252 | 22.337 | 22.330 | (0.998) | 1185069 | 30.0000 | 32.59 |
| 71 Chrysene | 228 | 22.423 | 22.415 | (1.002) | 1194484 | 10.0000 | 9.760 |
| 72 bis(2-Ethylhexyl)phthalate | 149 | 22.508 | 22.500 | (0.958) | 748352 | 10.0000 | 10.05 |
| * 134 Di-n-octylphthalate-d4 | 153 | 23.483 | 23.476 | (1.000) | 493409 | 4.00000 | |
| 73 Di-n-octylphthalate | 149 | 23.499 | 23.484 | (1.001) | 1238433 | 10.0000 | 9.533 |
| 74 Benzo(b)fluoranthene | 252 | 24.110 | 24.103 | (0.975) | 1298223 | 10.0000 | 10.93 |
| 75 Benzo(k)fluoranthene | 252 | 24.149 | 24.134 | (0.977) | 1216435 | 10.0000 | 9.496 |
| 76 Benzo(a)pyrene | 252 | 24.629 | 24.622 | (0.996) | 1094578 | 10.0000 | 10.74 |
| * 77 Perylene-d12 | 264 | 24.722 | 24.715 | (1.000) | 359407 | 4.00000 | |
| 78 Indeno(1,2,3-cd)pyrene | 276 | 26.808 | 26.793 | (1.084) | 1332948 | 10.0000 | 10.39 |
| 79 Dibenzo(a,h)anthracene | 278 | 26.823 | 26.800 | (1.085) | 1111407 | 10.0000 | 10.20 |
| 80 Benzo(g,h,i)perylene | 276 | 27.414 | 27.391 | (1.109) | 1177369 | 10.0000 | 10.53 |
| 90 N-Nitrosodimethylamine | 74 | 4.011 | 4.104 | (0.488) | 390301 | 20.0000 | 20.16 |
| 91 Aniline | 93 | 7.704 | 7.735 | (0.938) | 946419 | 20.0000 | 20.30 |
| 93 Benzidine | 184 | 20.007 | 20.015 | (0.894) | 1206182 | 20.0000 | 20.93 |
| 103 Pyridine | 79 | 4.004 | 4.027 | (0.487) | 608195 | 10.0000 | 10.02 |
| 105 1-methylnaphthalene | 142 | 12.320 | 12.313 | (1.154) | 726770 | 10.0000 | 10.04 |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77 | 15.692 | 15.677 | (1.101) | 823641 | 10.0000 | 9.917 |

| Compounds | QUANT SIG | | | | | | AMOUNTS | |
|-------------------------------|-----------|--|--------|--------|---------|----------|--------------------|-------------------|
| | MASS | | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| ===== | ===== | | ===== | ===== | ===== | ===== | ===== | |
| 187 Total Benzofluoranthenes | 252 | | 24.149 | 24.103 | (0.977) | 2361344 | 20.0000 | 20.33 |
| 120 2,3,4,6-Tetrachlorophenol | 232 | | 14.997 | 15.029 | (1.052) | 299003 | 10.0000 | 10.22 |

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 28-FEB-2023
 Lab File ID: NT1423022803.D Calibration Time: 12:51
 Lab Smp Id: SLB0374-CAL6
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: JGR
 Method File: \\target\share\chem3\nt14.i\20230228.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 114351 | 57176 | 228702 | 109658 | -4.10 |
| 27 Naphthalene-d8 | 408655 | 204328 | 817310 | 398074 | -2.59 |
| 42 Acenaphthene-d10 | 254000 | 127000 | 508000 | 245951 | -3.17 |
| 59 Phenanthrene-d10 | 490626 | 245313 | 981252 | 485216 | -1.10 |
| 69 Chrysene-d12 | 390400 | 195200 | 780800 | 380106 | -2.64 |
| 134 Di-n-octylphthala | 500829 | 250415 | 1001658 | 493409 | -1.48 |
| 77 Perylene-d12 | 375675 | 187838 | 751350 | 359407 | -4.33 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 8.21 | 7.71 | 8.71 | 8.21 | 0.00 |
| 27 Naphthalene-d8 | 10.67 | 10.17 | 11.17 | 10.67 | 0.07 |
| 42 Acenaphthene-d10 | 14.25 | 13.75 | 14.75 | 14.26 | 0.05 |
| 59 Phenanthrene-d10 | 17.25 | 16.75 | 17.75 | 17.26 | 0.05 |
| 69 Chrysene-d12 | 22.38 | 21.88 | 22.88 | 22.38 | 0.00 |
| 134 Di-n-octylphthala | 23.48 | 22.98 | 23.98 | 23.48 | 0.00 |
| 77 Perylene-d12 | 24.72 | 24.22 | 25.22 | 24.72 | 0.00 |

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

REVIEW SUMMARY FOR FILE - NT1423022803.D

Lab ID: SLB0374-CAL6
nt14.i, ABN.m, 28-FEB-2023 12:15

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT | CCV RRT | DELTA | COMPOUND |
|-------|---------|---------|------------------------|
| 1.037 | 1.059 | -0.0218 | Benzyl alcohol |
| 0.978 | 0.000 | 0.9776 | Benzoic acid |
| 1.013 | 0.000 | 1.0130 | 2,4-Dinitrophenol |
| 1.023 | 0.000 | 1.0233 | 4-Nitrophenol |
| 0.986 | 0.000 | 0.9861 | Pentachlorophenol |
| 0.488 | 0.500 | -0.0118 | N-Nitrosodimethylamine |
| 0.487 | 0.000 | 0.4874 | Pyridine |
| 0.738 | 0.747 | -0.0092 | 2-Fluorophenol |

RRT check based on Ccal File: NT1423022808.D

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

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

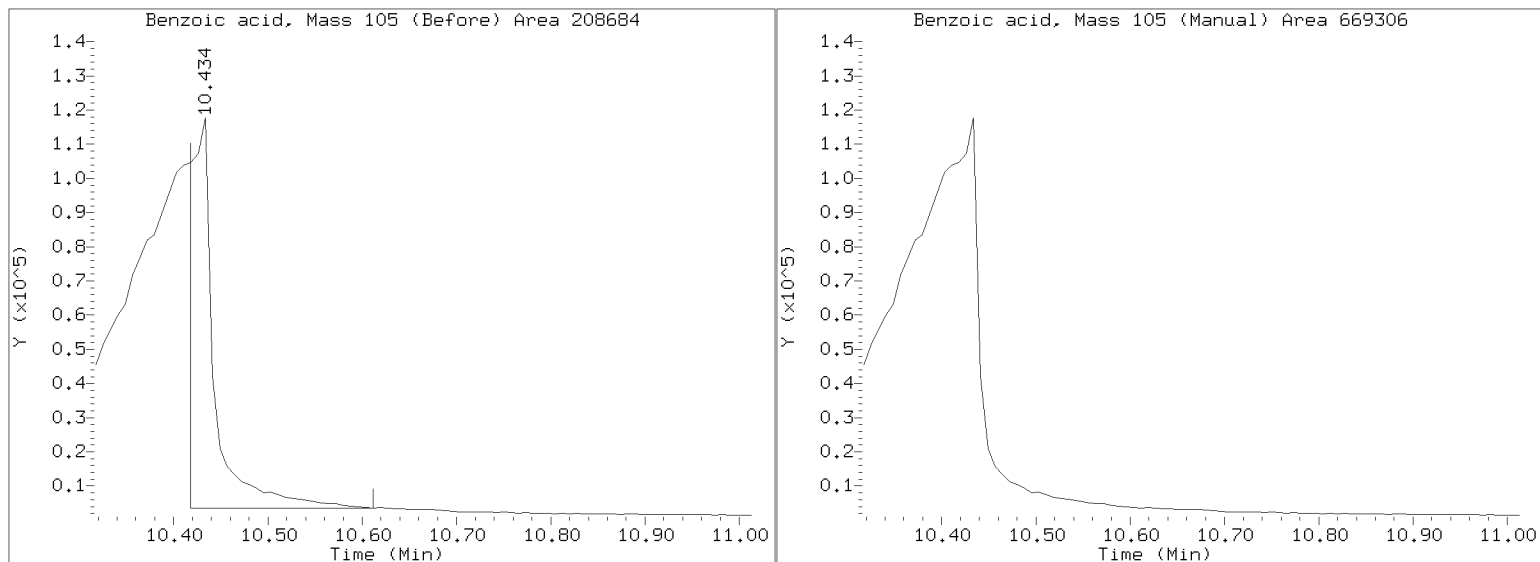
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230228.b/NT1423022803.D

Injection Date: 28-FEB-2023 12:15

Lab ID: SLB0374-CAL6 Client ID:

Report Date: 03/10/2023 13:21



Data File: \\target\share\chem3\nt14,1\20230228,16\NT1423022804.D

Date: 28-FEB-2023 12:51

Client ID:

Sample Info: SLB0374-CALS

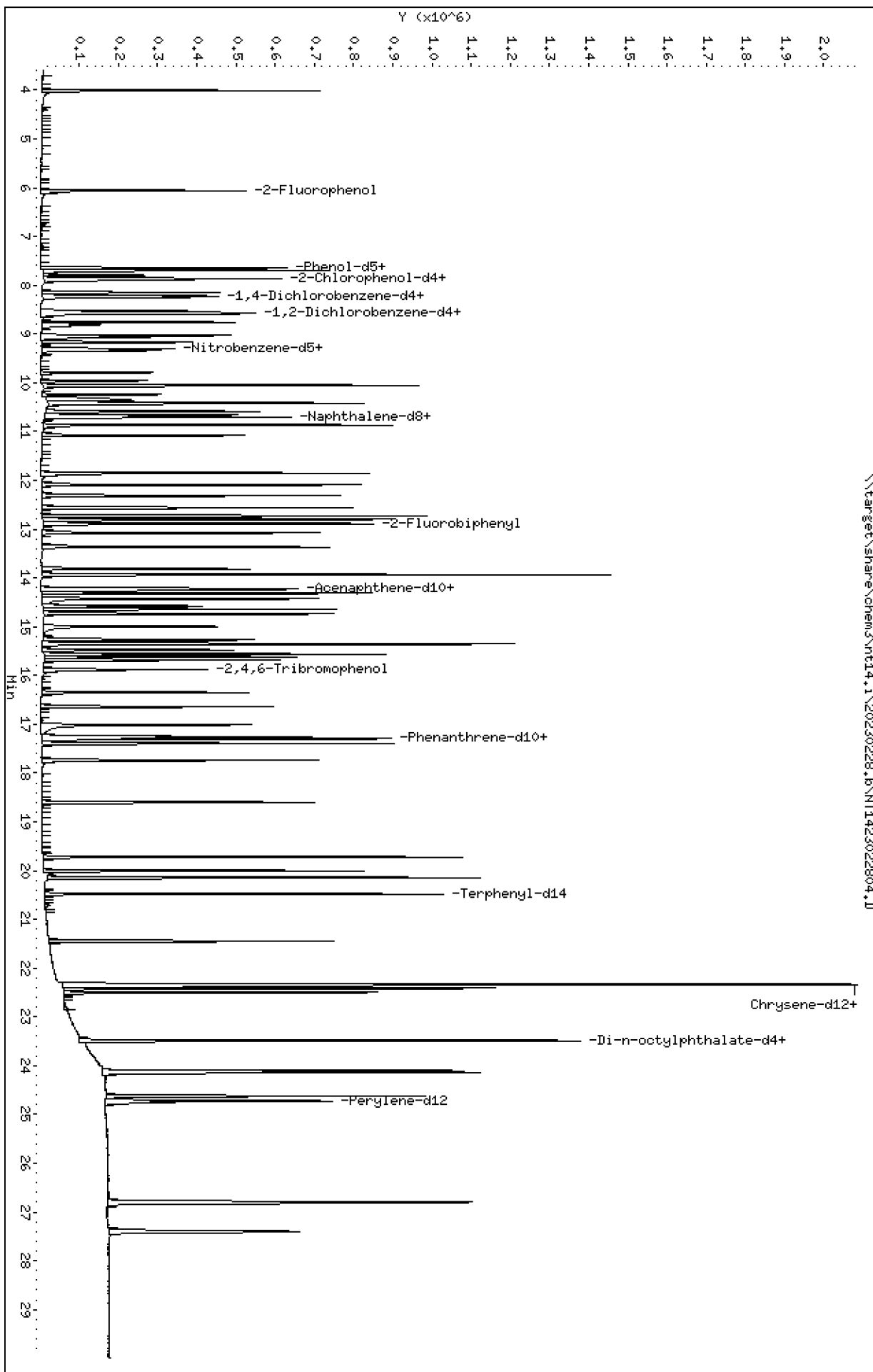
Column phase: ZB-5msi

Instrument: nt14,1

Operator: JGR

Column diameter: 0.25

Page 1



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230228.b\NT1423022804.D
 Lab Smp Id: SLB0374-CAL5
 Inj Date : 28-FEB-2023 12:51 MS Autotune Date: 17-MAY-2011 01:22
 Operator : JGR Inst ID: nt14.i
 Smp Info : SLB0374-CAL5
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt14.i\20230228.b\ABN.m
 Meth Date : 10-Mar-2023 12:09 van Quant Type: ISTD
 Cal Date : 28-FEB-2023 15:16 Cal File: NT1423022808.D
 Als bottle: 4 Calibration Sample, Level: 5
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: ICAL.sub
 Target Version: 4.14
 Processing Host: VANS-201906

| Compounds | QUANT | SIG | RT | EXP RT | REL RT | RESPONSE | AMOUNTS | |
|---------------------------------|-------|-----|--------|--------|---------|----------|---------|---------|
| | | | | | | | CAL-AMT | ON-COL |
| | MASS | | | | | | (ug/mL) | (ug/mL) |
| \$ 1 2-Fluorophenol | 112 | | 6.058 | 6.128 | (0.738) | 260051 | 7.50000 | 8.387 |
| \$ 2 Phenol-d5 | 99 | | 7.650 | 7.665 | (0.931) | 364409 | 7.50000 | 8.278 |
| 3 Phenol | 94 | | 7.665 | 7.681 | (0.933) | 282067 | 5.00000 | 5.370 |
| \$ 5 2-Chlorophenol-d4 | 132 | | 7.866 | 7.882 | (0.958) | 305533 | 7.50000 | 8.162 |
| 4 Bis(2-Chloroethyl)ether | 93 | | 7.804 | 7.805 | (0.950) | 175790 | 5.00000 | 4.913 |
| 6 2-Chlorophenol | 128 | | 7.897 | 7.905 | (0.961) | 202596 | 5.00000 | 5.236 |
| 7 1,3-Dichlorobenzene | 146 | | 8.144 | 8.153 | (0.992) | 209708 | 5.00000 | 4.918 |
| * 8 1,4-Dichlorobenzene-d4 | 152 | | 8.214 | 8.207 | (1.000) | 114351 | 4.00000 | |
| 9 1,4-Dichlorobenzene | 146 | | 8.245 | 8.246 | (1.004) | 218723 | 5.00000 | 5.190 |
| \$ 10 1,2-Dichlorobenzene-d4 | 152 | | 8.563 | 8.572 | (1.043) | 138145 | 5.00000 | 4.902 |
| 12 1,2-Dichlorobenzene | 146 | | 8.587 | 8.595 | (1.045) | 199756 | 5.00000 | 4.944 |
| 11 Benzyl alcohol | 108 | | 8.517 | 8.688 | (1.037) | 116011 | 5.00000 | 4.991 |
| 14 2,2'-oxybis(1-Chloropropane) | 121 | | 8.812 | 8.812 | (1.073) | 54179 | 5.00000 | 4.972 |
| 13 2-Methylphenol | 108 | | 8.758 | 8.774 | (1.066) | 176845 | 5.00000 | 5.329 |
| 17 Hexachloroethane | 117 | | 9.169 | 9.162 | (1.116) | 81102 | 5.00000 | 5.125 |
| 16 N-Nitroso-di-n-propylamine | 70 | | 9.068 | 9.076 | (1.104) | 136720 | 5.00000 | 5.411 |
| 15 4-Methylphenol | 108 | | 9.029 | 9.069 | (1.099) | 187688 | 5.00000 | 4.956 |
| \$ 18 Nitrobenzene-d5 | 82 | | 9.309 | 9.317 | (0.873) | 219628 | 5.00000 | 5.494 |
| 19 Nitrobenzene | 77 | | 9.340 | 9.356 | (0.876) | 209284 | 5.00000 | 5.448 |
| 20 Isophorone | 82 | | 9.790 | 9.806 | (0.918) | 291476 | 5.00000 | 4.936 |
| 21 2-Nitrophenol | 139 | | 9.960 | 9.992 | (0.934) | 99495 | 5.00000 | 4.972 |
| 22 2,4-Dimethylphenol | 107 | | 10.053 | 10.062 | (0.943) | 368739 | 10.0000 | 10.53 |
| 23 Bis(2-Chloroethoxy)methane | 93 | | 10.240 | 10.256 | (0.960) | 195425 | 5.00000 | 5.060 |
| 24 Benzoic acid | 105 | | 10.356 | 10.665 | (0.971) | 295307 | 20.0000 | 21.28 |
| 25 2,4-Dichlorophenol | 162 | | 10.418 | 10.441 | (0.977) | 345023 | 10.0000 | 10.21 |
| 26 1,2,4-Trichlorobenzene | 180 | | 10.588 | 10.588 | (0.993) | 196741 | 5.00000 | 4.971 |
| * 27 Naphthalene-d8 | 136 | | 10.665 | 10.665 | (1.000) | 408655 | 4.00000 | |
| 28 Naphthalene | 128 | | 10.703 | 10.704 | (1.004) | 538815 | 5.00000 | 4.943 |
| 29 4-Chloroaniline | 127 | | 10.865 | 10.889 | (1.019) | 486638 | 10.0000 | 10.44 |
| 30 Hexachlorobutadiene | 225 | | 11.082 | 11.082 | (1.039) | 132554 | 5.00000 | 5.489 |
| 31 4-Chloro-3-methylphenol | 107 | | 11.856 | 11.872 | (1.112) | 339118 | 10.0000 | 10.76 |
| 32 2-Methylnaphthalene | 142 | | 12.096 | 12.096 | (1.134) | 416207 | 5.00000 | 5.156 |
| 33 Hexachlorocyclopentadiene | 237 | | 12.568 | 12.560 | (0.882) | 262875 | 10.0000 | 9.786 |

| Compounds | QUANT SIG | | | AMOUNTS | | | |
|-----------------------------------|-----------|--------|--------|---------|----------|--------------------|-------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| 34 2,4,6-Trichlorophenol | 196 | 12.730 | 12.746 | (0.894) | 264723 | 10.0000 | 10.67 |
| 35 2,4,5-Trichlorophenol | 196 | 12.800 | 12.831 | (0.898) | 290208 | 10.0000 | 10.82 |
| \$ 36 2-Fluorobiphenyl | 172 | 12.893 | 12.893 | (0.905) | 484399 | 5.00000 | 4.900 |
| 37 2-Chloronaphthalene | 162 | 13.078 | 13.079 | (0.918) | 396643 | 5.00000 | 5.005 |
| 38 2-Nitroaniline | 65 | 13.365 | 13.373 | (0.938) | 222909 | 10.0000 | 10.78 |
| 39 Dimethylphthalate | 163 | 13.814 | 13.814 | (0.970) | 420733 | 5.00000 | 5.266 |
| 40 Acenaphthylene | 152 | 13.938 | 13.938 | (0.978) | 593490 | 5.00000 | 5.104 |
| 41 2,6-Dinitrotoluene | 165 | 13.938 | 13.938 | (0.978) | 194703 | 10.0000 | 10.40 |
| * 42 Acenaphthene-d10 | 164 | 14.247 | 14.247 | (1.000) | 254000 | 4.00000 | |
| 43 3-Nitroaniline | 138 | 14.216 | 14.232 | (0.998) | 205208 | 10.0000 | 10.69 |
| 44 Acenaphthene | 153 | 14.317 | 14.309 | (1.005) | 365169 | 5.00000 | 4.905 |
| 45 2,4-Dinitrophenol | 184 | 14.425 | 14.425 | (1.012) | 228510 | 20.0000 | 18.51 |
| 46 Dibenzofuran | 168 | 14.641 | 14.642 | (1.028) | 589230 | 5.00000 | 4.974 |
| 47 4-Nitrophenol | 109 | 14.579 | 14.580 | (1.023) | 96474 | 10.0000 | 9.882 |
| 48 2,4-Dinitrotoluene | 165 | 14.734 | 14.734 | (1.034) | 278844 | 10.0000 | 10.35 |
| 50 Diethylphthalate | 149 | 15.268 | 15.260 | (1.072) | 395513 | 5.00000 | 5.294 |
| 49 Fluorene | 166 | 15.345 | 15.345 | (1.077) | 492528 | 5.00000 | 4.934 |
| 51 4-Chlorophenyl-phenylether | 204 | 15.360 | 15.361 | (1.078) | 259650 | 5.00000 | 4.889 |
| 52 4-Nitroaniline | 138 | 15.476 | 15.492 | (1.086) | 203644 | 10.0000 | 10.71 |
| 53 4,6-Dinitro-2-methylphenol | 198 | 15.569 | 15.608 | (0.902) | 330606 | 20.0000 | 20.05 |
| 54 N-Nitrosodiphenylamine | 169 | 15.623 | 15.616 | (0.906) | 316456 | 5.00000 | 5.133 |
| \$ 55 2,4,6-Tribromophenol | 330 | 15.885 | 15.893 | (1.115) | 102657 | 7.50000 | 7.293 |
| 56 4-Bromophenyl-phenylether | 248 | 16.355 | 16.348 | (0.948) | 142332 | 5.00000 | 5.251 |
| 57 Hexachlorobenzene | 284 | 16.641 | 16.634 | (0.965) | 152054 | 5.00000 | 5.102 |
| 58 Pentachlorophenol | 266 | 17.013 | 17.021 | (0.986) | 143862 | 10.0000 | 9.805 |
| * 59 Phenanthrene-d10 | 188 | 17.253 | 17.245 | (1.000) | 490626 | 4.00000 | |
| 60 Phenanthrene | 178 | 17.299 | 17.300 | (1.003) | 653683 | 5.00000 | 5.008 |
| 61 Anthracene | 178 | 17.392 | 17.392 | (1.008) | 659752 | 5.00000 | 5.347 |
| 62 Carbazole | 167 | 17.740 | 17.748 | (1.028) | 558029 | 5.00000 | 5.160 |
| 63 Di-n-butylphthalate | 149 | 18.599 | 18.599 | (1.078) | 692339 | 5.00000 | 5.050 |
| 64 Fluoranthene | 202 | 19.721 | 19.721 | (0.881) | 778341 | 5.00000 | 5.255 |
| 65 Pyrene | 202 | 20.146 | 20.147 | (0.900) | 848784 | 5.00000 | 5.435 |
| \$ 66 Terphenyl-d14 | 244 | 20.479 | 20.480 | (0.915) | 610457 | 5.00000 | 5.077 |
| 67 Butylbenzylphthalate | 149 | 21.447 | 21.447 | (0.958) | 270943 | 5.00000 | 4.998 |
| 68 Benzo(a)anthracene | 228 | 22.345 | 22.338 | (0.999) | 693299 | 5.00000 | 5.301 |
| * 69 Chrysene-d12 | 240 | 22.376 | 22.361 | (1.000) | 390400 | 4.00000 | |
| 70 3,3'-Dichlorobenzidine | 252 | 22.330 | 22.330 | (0.998) | 570719 | 15.0000 | 15.28 |
| 71 Chrysene | 228 | 22.415 | 22.415 | (1.002) | 634916 | 5.00000 | 5.051 |
| 72 bis(2-Ethylhexyl)phthalate | 149 | 22.500 | 22.500 | (0.958) | 382571 | 5.00000 | 5.032 |
| * 134 Di-n-octylphthalate-d4 | 153 | 23.483 | 23.476 | (1.000) | 500829 | 4.00000 | |
| 73 Di-n-octylphthalate | 149 | 23.491 | 23.484 | (1.000) | 644883 | 5.00000 | 4.890 |
| 74 Benzo(b)fluoranthene | 252 | 24.110 | 24.103 | (0.975) | 640680 | 5.00000 | 5.162 |
| 75 Benzo(k)fluoranthene | 252 | 24.141 | 24.134 | (0.977) | 668802 | 5.00000 | 4.995 |
| 76 Benzo(a)pyrene | 252 | 24.629 | 24.622 | (0.996) | 562934 | 5.00000 | 5.286 |
| * 77 Perylene-d12 | 264 | 24.722 | 24.715 | (1.000) | 375675 | 4.00000 | |
| 78 Indeno(1,2,3-cd)pyrene | 276 | 26.800 | 26.793 | (1.084) | 701455 | 5.00000 | 5.233 |
| 79 Dibenzo(a,h)anthracene | 278 | 26.815 | 26.800 | (1.085) | 592079 | 5.00000 | 5.201 |
| 80 Benzo(g,h,i)perylene | 276 | 27.406 | 27.391 | (1.109) | 602278 | 5.00000 | 5.152 |
| 90 N-Nitrosodimethylamine | 74 | 4.004 | 4.104 | (0.487) | 217203 | 10.0000 | 10.03 |
| 91 Aniline | 93 | 7.696 | 7.735 | (0.937) | 504334 | 10.0000 | 9.833 |
| 93 Benzidine | 184 | 19.999 | 20.015 | (0.894) | 591643 | 10.0000 | 9.648 |
| 103 Pyridine | 79 | 4.011 | 4.027 | (0.488) | 341942 | 5.00000 | 5.179 |
| 105 1-methylnaphthalene | 142 | 12.312 | 12.313 | (1.154) | 380767 | 5.00000 | 5.124 |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77 | 15.684 | 15.677 | (1.101) | 443853 | 5.00000 | 5.175 |

| Compounds | QUANT SIG | | AMOUNTS | | | | | |
|-------------------------------|-----------|--|---------|--------|---------|----------|--------------------|-------------------|
| | MASS | | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| ===== | ===== | | ===== | ===== | ===== | ===== | ===== | ===== |
| 187 Total Benzofluoranthenes | 252 | | 24.141 | 24.103 | (0.977) | 1234620 | 10.0000 | 10.17 |
| 120 2,3,4,6-Tetrachlorophenol | 232 | | 14.997 | 15.029 | (1.053) | 142269 | 5.00000 | 4.857 |

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 28-FEB-2023
 Lab File ID: NT1423022804.D Calibration Time: 12:51
 Lab Smp Id: SLB0374-CAL5
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: JGR
 Method File: \\target\share\chem3\nt14.i\20230228.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 114351 | 57176 | 228702 | 114351 | 0.00 |
| 27 Naphthalene-d8 | 408655 | 204328 | 817310 | 408655 | 0.00 |
| 42 Acenaphthene-d10 | 254000 | 127000 | 508000 | 254000 | 0.00 |
| 59 Phenanthrene-d10 | 490626 | 245313 | 981252 | 490626 | 0.00 |
| 69 Chrysene-d12 | 390400 | 195200 | 780800 | 390400 | 0.00 |
| 134 Di-n-octylphthala | 500829 | 250415 | 1001658 | 500829 | 0.00 |
| 77 Perylene-d12 | 375675 | 187838 | 751350 | 375675 | 0.00 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 8.21 | 7.71 | 8.71 | 8.21 | 0.00 |
| 27 Naphthalene-d8 | 10.67 | 10.17 | 11.17 | 10.67 | 0.00 |
| 42 Acenaphthene-d10 | 14.25 | 13.75 | 14.75 | 14.25 | 0.00 |
| 59 Phenanthrene-d10 | 17.25 | 16.75 | 17.75 | 17.25 | 0.00 |
| 69 Chrysene-d12 | 22.38 | 21.88 | 22.88 | 22.38 | 0.00 |
| 134 Di-n-octylphthala | 23.48 | 22.98 | 23.98 | 23.48 | 0.00 |
| 77 Perylene-d12 | 24.72 | 24.22 | 25.22 | 24.72 | 0.00 |

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

REVIEW SUMMARY FOR FILE - NT1423022804.D

Lab ID: SLB0374-CAL5
nt14.i, ABN.m, 28-FEB-2023 12:51

RT CO-ELUTION COMPOUNDS

13.938 Acenaphthylene and 2,6-Dinitrotoluene

Quant Method: ICAL

RRT CHECK

| RRT | CCV RRT | DELTA | COMPOUND |
|-------|---------|---------|------------------------|
| 1.037 | 1.059 | -0.0218 | Benzyl alcohol |
| 1.099 | 1.105 | -0.0058 | 4-Methylphenol |
| 0.971 | 0.000 | 0.9710 | Benzoic acid |
| 1.012 | 0.000 | 1.0125 | 2,4-Dinitrophenol |
| 1.023 | 0.000 | 1.0233 | 4-Nitrophenol |
| 0.986 | 0.000 | 0.9861 | Pentachlorophenol |
| 0.487 | 0.500 | -0.0127 | N-Nitrosodimethylamine |
| 0.937 | 0.942 | -0.0056 | Aniline |
| 0.488 | 0.000 | 0.4884 | Pyridine |
| 0.738 | 0.747 | -0.0092 | 2-Fluorophenol |

RRT check based on Ccal File: NT1423022808.D

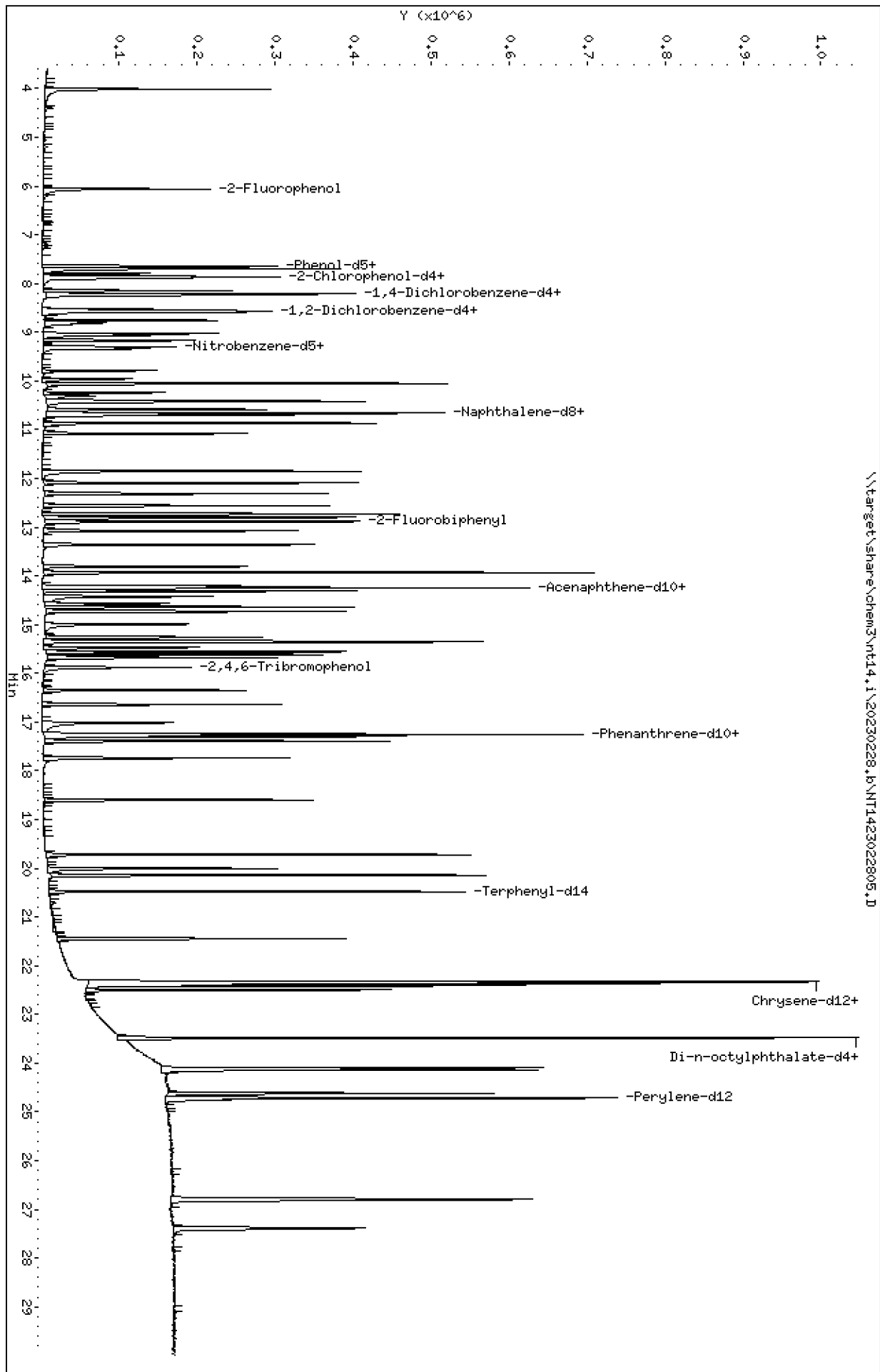
On Column LOD for nt14.i, ABN.m, ICAL.sub = 0.0000

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

Data File: \\target\share\chem3\nt14,1\20230228,16\NT1423022805.D
Date: 28-FEB-2023 13:28
Client ID:
Sample Info: SLB0374-CAL4
Column phase: ZB-5msi

Instrument: nt14,1
Operator: JGR
Column diameter: 0.25

\\target\share\chem3\nt14,1\20230228,16\NT1423022805.D



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230228.b\NT1423022805.D
 Lab Smp Id: SLB0374-CAL4
 Inj Date : 28-FEB-2023 13:28 MS Autotune Date: 17-MAY-2011 01:22
 Operator : JGR Inst ID: nt14.i
 Smp Info : SLB0374-CAL4
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt14.i\20230228.b\ABN.m
 Meth Date : 10-Mar-2023 12:09 van Quant Type: ISTD
 Cal Date : 28-FEB-2023 15:16 Cal File: NT1423022808.D
 Als bottle: 5 Calibration Sample, Level: 4
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: ICAL.sub
 Target Version: 4.14
 Processing Host: VANS-201906

| Compounds | QUANT | SIG | RT | EXP RT | REL RT | RESPONSE | AMOUNTS | |
|---------------------------------|-------|-----|--------|--------|---------|----------|---------|-----------|
| | | | | | | | CAL-AMT | ON-COL |
| | MASS | | | | | | (ug/mL) | (ug/mL) |
| \$ 1 2-Fluorophenol | 112 | | 6.066 | 6.128 | (0.738) | 126158 | 3.75000 | 4.109 |
| \$ 2 Phenol-d5 | 99 | | 7.642 | 7.665 | (0.930) | 178407 | 3.75000 | 4.093 |
| 3 Phenol | 94 | | 7.665 | 7.681 | (0.933) | 140636 | 2.50000 | 2.704 |
| \$ 5 2-Chlorophenol-d4 | 132 | | 7.866 | 7.882 | (0.958) | 141224 | 3.75000 | 3.810 |
| 4 Bis(2-Chloroethyl)ether | 93 | | 7.796 | 7.805 | (0.949) | 88931 | 2.50000 | 2.465 |
| 6 2-Chlorophenol | 128 | | 7.889 | 7.905 | (0.960) | 101365 | 2.50000 | 2.646 |
| 7 1,3-Dichlorobenzene | 146 | | 8.145 | 8.153 | (0.992) | 105667 | 2.50000 | 2.503 |
| * 8 1,4-Dichlorobenzene-d4 | 152 | | 8.214 | 8.207 | (1.000) | 113228 | 4.00000 | |
| 9 1,4-Dichlorobenzene | 146 | | 8.245 | 8.246 | (1.004) | 101089 | 2.50000 | 2.423 |
| \$ 10 1,2-Dichlorobenzene-d4 | 152 | | 8.564 | 8.572 | (1.043) | 69920 | 2.50000 | 2.506 |
| 12 1,2-Dichlorobenzene | 146 | | 8.587 | 8.595 | (1.045) | 100479 | 2.50000 | 2.511 |
| 11 Benzyl alcohol | 108 | | 8.517 | 8.688 | (1.037) | 50852 | 2.50000 | 2.229 |
| 14 2,2'-oxybis(1-Chloropropane) | 121 | | 8.804 | 8.812 | (1.072) | 26929 | 2.50000 | 2.496 |
| 13 2-Methylphenol | 108 | | 8.758 | 8.774 | (1.066) | 88208 | 2.50000 | 2.685 |
| 17 Hexachloroethane | 117 | | 9.169 | 9.162 | (1.116) | 40237 | 2.50000 | 2.568 |
| 16 N-Nitroso-di-n-propylamine | 70 | | 9.068 | 9.076 | (1.104) | 66783 | 2.50000 | 2.670 |
| 15 4-Methylphenol | 108 | | 9.029 | 9.069 | (1.099) | 91493 | 2.50000 | 2.413 |
| \$ 18 Nitrobenzene-d5 | 82 | | 9.301 | 9.317 | (0.872) | 106453 | 2.50000 | 2.685 |
| 19 Nitrobenzene | 77 | | 9.340 | 9.356 | (0.876) | 102162 | 2.50000 | 2.681 |
| 20 Isophorone | 82 | | 9.790 | 9.806 | (0.918) | 136718 | 2.50000 | 2.313 |
| 21 2-Nitrophenol | 139 | | 9.961 | 9.992 | (0.934) | 41751 | 2.50000 | 2.112 |
| 22 2,4-Dimethylphenol | 107 | | 10.054 | 10.062 | (0.943) | 186861 | 5.00000 | 5.380 |
| 23 Bis(2-Chloroethoxy)methane | 93 | | 10.240 | 10.256 | (0.960) | 102299 | 2.50000 | 2.671 |
| 24 Benzoic acid | 105 | | 10.302 | 10.665 | (0.966) | 101888 | 10.0000 | 7.402 (M) |
| 25 2,4-Dichlorophenol | 162 | | 10.418 | 10.441 | (0.977) | 172335 | 5.00000 | 5.013 |
| 26 1,2,4-Trichlorobenzene | 180 | | 10.588 | 10.588 | (0.993) | 99078 | 2.50000 | 2.524 |
| * 27 Naphthalene-d8 | 136 | | 10.665 | 10.665 | (1.000) | 405310 | 4.00000 | |
| 28 Naphthalene | 128 | | 10.704 | 10.704 | (1.004) | 272997 | 2.50000 | 2.525 |
| 29 4-Chloroaniline | 127 | | 10.866 | 10.889 | (1.019) | 240963 | 5.00000 | 5.211 |
| 30 Hexachlorobutadiene | 225 | | 11.082 | 11.082 | (1.039) | 58372 | 2.50000 | 2.437 |
| 31 4-Chloro-3-methylphenol | 107 | | 11.848 | 11.872 | (1.111) | 162866 | 5.00000 | 5.209 |
| 32 2-Methylnaphthalene | 142 | | 12.096 | 12.096 | (1.134) | 205718 | 2.50000 | 2.570 |
| 33 Hexachlorocyclopentadiene | 237 | | 12.568 | 12.560 | (0.882) | 118187 | 5.00000 | 4.579 |

| Compounds | QUANT SIG | | | | | AMOUNTS | |
|-----------------------------------|-----------|--------|--------|---------|----------|--------------------|-------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| 34 2,4,6-Trichlorophenol | 196 | 12.730 | 12.746 | (0.894) | 122077 | 5.00000 | 5.098 |
| 35 2,4,5-Trichlorophenol | 196 | 12.800 | 12.831 | (0.898) | 136383 | 5.00000 | 5.268 |
| § 36 2-Fluorobiphenyl | 172 | 12.885 | 12.893 | (0.904) | 242604 | 2.50000 | 2.543 |
| 37 2-Chloronaphthalene | 162 | 13.079 | 13.079 | (0.918) | 195722 | 2.50000 | 2.559 |
| 38 2-Nitroaniline | 65 | 13.357 | 13.373 | (0.938) | 104958 | 5.00000 | 5.262 |
| 39 Dimethylphthalate | 163 | 13.806 | 13.814 | (0.969) | 208015 | 2.50000 | 2.698 |
| 40 Acenaphthylene | 152 | 13.930 | 13.938 | (0.978) | 299439 | 2.50000 | 2.668 |
| 41 2,6-Dinitrotoluene | 165 | 13.938 | 13.938 | (0.978) | 95039 | 5.00000 | 5.260 |
| * 42 Acenaphthene-d10 | 164 | 14.247 | 14.247 | (1.000) | 245142 | 4.00000 | |
| 43 3-Nitroaniline | 138 | 14.209 | 14.232 | (0.997) | 96033 | 5.00000 | 5.186 |
| 44 Acenaphthene | 153 | 14.309 | 14.309 | (1.004) | 182283 | 2.50000 | 2.537 |
| 45 2,4-Dinitrophenol | 184 | 14.425 | 14.425 | (1.012) | 78557 | 10.0000 | 6.778 |
| 46 Dibenzofuran | 168 | 14.641 | 14.642 | (1.028) | 292433 | 2.50000 | 2.558 |
| 47 4-Nitrophenol | 109 | 14.572 | 14.580 | (1.023) | 35594 | 5.00000 | 3.850 |
| 48 2,4-Dinitrotoluene | 165 | 14.726 | 14.734 | (1.034) | 136357 | 5.00000 | 5.242 |
| 50 Diethylphthalate | 149 | 15.260 | 15.260 | (1.071) | 192704 | 2.50000 | 2.673 |
| 49 Fluorene | 166 | 15.345 | 15.345 | (1.077) | 251711 | 2.50000 | 2.613 |
| 51 4-Chlorophenyl-phenylether | 204 | 15.361 | 15.361 | (1.078) | 129834 | 2.50000 | 2.533 |
| 52 4-Nitroaniline | 138 | 15.469 | 15.492 | (1.086) | 96767 | 5.00000 | 5.271 |
| 53 4,6-Dinitro-2-methylphenol | 198 | 15.561 | 15.608 | (0.902) | 144017 | 10.0000 | 8.883 |
| 54 N-Nitrosodiphenylamine | 169 | 15.615 | 15.616 | (0.905) | 157472 | 2.50000 | 2.581 |
| § 55 2,4,6-Tribromophenol | 330 | 15.877 | 15.893 | (1.114) | 46515 | 3.75000 | 3.484 |
| 56 4-Bromophenyl-phenylether | 248 | 16.348 | 16.348 | (0.948) | 68823 | 2.50000 | 2.566 |
| 57 Hexachlorobenzene | 284 | 16.641 | 16.634 | (0.965) | 73786 | 2.50000 | 2.502 |
| 58 Pentachlorophenol | 266 | 17.013 | 17.021 | (0.986) | 51244 | 5.00000 | 3.636 |
| * 59 Phenanthrene-d10 | 188 | 17.253 | 17.245 | (1.000) | 485508 | 4.00000 | |
| 60 Phenanthrene | 178 | 17.299 | 17.300 | (1.003) | 327409 | 2.50000 | 2.535 |
| 61 Anthracene | 178 | 17.392 | 17.392 | (1.008) | 323023 | 2.50000 | 2.646 |
| 62 Carbazole | 167 | 17.740 | 17.748 | (1.028) | 262549 | 2.50000 | 2.453 |
| 63 Di-n-butylphthalate | 149 | 18.599 | 18.599 | (1.078) | 325349 | 2.50000 | 2.374 |
| 64 Fluoranthene | 202 | 19.721 | 19.721 | (0.882) | 387153 | 2.50000 | 2.598 |
| 65 Pyrene | 202 | 20.146 | 20.147 | (0.901) | 401670 | 2.50000 | 2.557 |
| § 66 Terphenyl-d14 | 244 | 20.479 | 20.480 | (0.916) | 315246 | 2.50000 | 2.606 |
| 67 Butylbenzylphthalate | 149 | 21.447 | 21.447 | (0.959) | 128438 | 2.50000 | 2.330 |
| 68 Benzo(a)anthracene | 228 | 22.338 | 22.338 | (0.999) | 349585 | 2.50000 | 2.657 |
| * 69 Chrysene-d12 | 240 | 22.369 | 22.361 | (1.000) | 392724 | 4.00000 | |
| 70 3,3'-Dichlorobenzidine | 252 | 22.330 | 22.330 | (0.998) | 258156 | 7.50000 | 6.872 |
| 71 Chrysene | 228 | 22.415 | 22.415 | (1.002) | 322345 | 2.50000 | 2.549 |
| 72 bis(2-Ethylhexyl)phthalate | 149 | 22.500 | 22.500 | (0.958) | 178294 | 2.50000 | 2.412 |
| * 134 Di-n-octylphthalate-d4 | 153 | 23.483 | 23.476 | (1.000) | 485486 | 4.00000 | |
| 73 Di-n-octylphthalate | 149 | 23.491 | 23.484 | (1.000) | 319686 | 2.50000 | 2.501 |
| 74 Benzo(b)fluoranthene | 252 | 24.103 | 24.103 | (0.975) | 305453 | 2.50000 | 2.465 |
| 75 Benzo(k)fluoranthene | 252 | 24.141 | 24.134 | (0.977) | 360873 | 2.50000 | 2.699 |
| 76 Benzo(a)pyrene | 252 | 24.621 | 24.622 | (0.996) | 281055 | 2.50000 | 2.644 |
| * 77 Perylene-d12 | 264 | 24.714 | 24.715 | (1.000) | 375073 | 4.00000 | |
| 78 Indeno(1,2,3-cd)pyrene | 276 | 26.792 | 26.793 | (1.084) | 348375 | 2.50000 | 2.603 |
| 79 Dibenzo(a,h)anthracene | 278 | 26.808 | 26.800 | (1.085) | 296243 | 2.50000 | 2.606 |
| 80 Benzo(g,h,i)perylene | 276 | 27.390 | 27.391 | (1.108) | 293772 | 2.50000 | 2.517 |
| 90 N-Nitrosodimethylamine | 74 | 3.996 | 4.104 | (0.486) | 108235 | 5.00000 | 4.842 |
| 91 Aniline | 93 | 7.696 | 7.735 | (0.937) | 251477 | 5.00000 | 4.811 |
| 93 Benzidine | 184 | 19.999 | 20.015 | (0.894) | 225245 | 5.00000 | 3.576 |
| 103 Pyridine | 79 | 4.011 | 4.027 | (0.488) | 152436 | 2.50000 | 2.266 |
| 105 1-methylnaphthalene | 142 | 12.312 | 12.313 | (1.154) | 186649 | 2.50000 | 2.532 |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77 | 15.677 | 15.677 | (1.100) | 222632 | 2.50000 | 2.689 |

| Compounds | QUANT SIG | | | | | | AMOUNTS | |
|-------------------------------|-----------|--|--------|--------|---------|----------|--------------------|-------------------|
| | MASS | | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| 187 Total Benzofluoranthenes | 252 | | 24.103 | 24.103 | (0.975) | 625000 | 5.00000 | 5.156 |
| 120 2,3,4,6-Tetrachlorophenol | 232 | | 14.997 | 15.029 | (1.053) | 63604 | 2.50000 | 2.281 |

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 28-FEB-2023
 Lab File ID: NT1423022805.D Calibration Time: 12:51
 Lab Smp Id: SLB0374-CAL4
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: JGR
 Method File: \\target\share\chem3\nt14.i\20230228.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 114351 | 57176 | 228702 | 113228 | -0.98 |
| 27 Naphthalene-d8 | 408655 | 204328 | 817310 | 405310 | -0.82 |
| 42 Acenaphthene-d10 | 254000 | 127000 | 508000 | 245142 | -3.49 |
| 59 Phenanthrene-d10 | 490626 | 245313 | 981252 | 485508 | -1.04 |
| 69 Chrysene-d12 | 390400 | 195200 | 780800 | 392724 | 0.60 |
| 134 Di-n-octylphthala | 500829 | 250415 | 1001658 | 485486 | -3.06 |
| 77 Perylene-d12 | 375675 | 187838 | 751350 | 375073 | -0.16 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 8.21 | 7.71 | 8.71 | 8.21 | 0.00 |
| 27 Naphthalene-d8 | 10.67 | 10.17 | 11.17 | 10.67 | 0.00 |
| 42 Acenaphthene-d10 | 14.25 | 13.75 | 14.75 | 14.25 | 0.00 |
| 59 Phenanthrene-d10 | 17.25 | 16.75 | 17.75 | 17.25 | 0.00 |
| 69 Chrysene-d12 | 22.38 | 21.88 | 22.88 | 22.37 | -0.03 |
| 134 Di-n-octylphthala | 23.48 | 22.98 | 23.98 | 23.48 | 0.00 |
| 77 Perylene-d12 | 24.72 | 24.22 | 25.22 | 24.71 | -0.03 |

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

REVIEW SUMMARY FOR FILE - NT1423022805.D

Lab ID: SLB0374-CAL4
nt14.i, ABN.m, 28-FEB-2023 13:28

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT | CCV RRT | DELTA | COMPOUND |
|-------|---------|---------|------------------------|
| 1.037 | 1.059 | -0.0218 | Benzyl alcohol |
| 1.099 | 1.105 | -0.0058 | 4-Methylphenol |
| 0.966 | 0.000 | 0.9659 | Benzoic acid |
| 1.012 | 0.000 | 1.0125 | 2,4-Dinitrophenol |
| 1.023 | 0.000 | 1.0228 | 4-Nitrophenol |
| 0.986 | 0.000 | 0.9861 | Pentachlorophenol |
| 0.486 | 0.500 | -0.0136 | N-Nitrosodimethylamine |
| 0.937 | 0.942 | -0.0056 | Aniline |
| 0.488 | 0.000 | 0.4884 | Pyridine |
| 0.738 | 0.747 | -0.0082 | 2-Fluorophenol |

RRT check based on Ccal File: NT1423022808.D

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

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

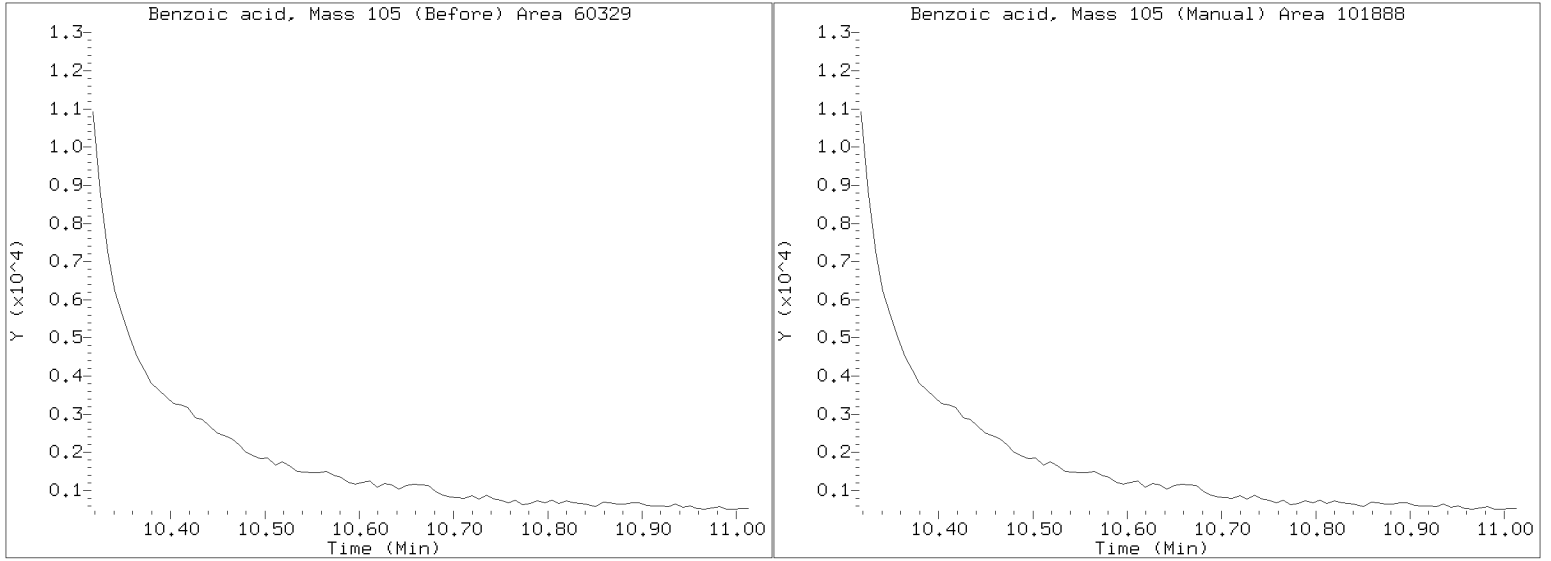
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230228.b/NT1423022805.D

Injection Date: 28-FEB-2023 13:28

Lab ID: SLB0374-CAL4 Client ID:

Report Date: 03/10/2023 13:21



Data File: \\target\share\chem3\nt14,1\20230228,16\NT1423022806.D

Date: 28-FEB-2023 14:04

Client ID:

Sample Info: SLB0374-CAL3

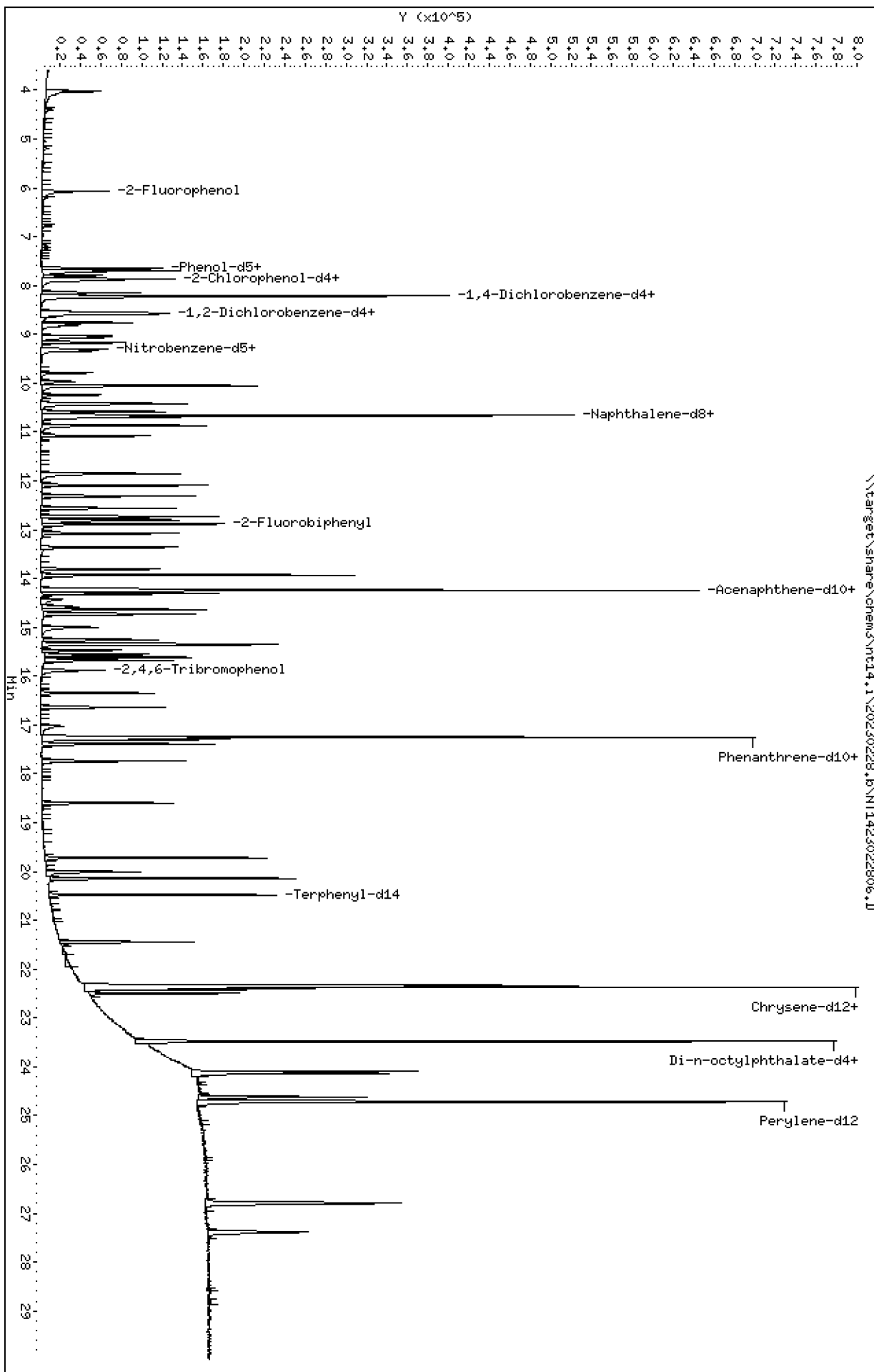
Column phase: ZB-5msi

Instrument: nt14,1

Operator: JGR

Column diameter: 0.25

\\target\share\chem3\nt14,1\20230228,16\NT1423022806.D



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230228.b\NT1423022806.D
 Lab Smp Id: SLB0374-CAL3
 Inj Date : 28-FEB-2023 14:04 MS Autotune Date: 17-MAY-2011 01:22
 Operator : JGR Inst ID: nt14.i
 Smp Info : SLB0374-CAL3
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt14.i\20230228.b\ABN.m
 Meth Date : 10-Mar-2023 12:09 van Quant Type: ISTD
 Cal Date : 28-FEB-2023 15:16 Cal File: NT1423022808.D
 Als bottle: 6 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: ICAL.sub
 Target Version: 4.14
 Processing Host: VANS-201906

| Compounds | QUANT | SIG | RT | EXP RT | REL RT | RESPONSE | AMOUNTS | |
|---------------------------------|-------|-----|--------|--------|---------|----------|---------|-----------|
| | | | | | | | CAL-AMT | ON-COL |
| | MASS | | | | | | (ug/mL) | (ug/mL) |
| 1 2-Fluorophenol | 112 | | 6.066 | 6.128 | (0.738) | 47462 | 1.50000 | 1.494 |
| 2 Phenol-d5 | 99 | | 7.650 | 7.665 | (0.931) | 72471 | 1.50000 | 1.607 |
| 3 Phenol | 94 | | 7.665 | 7.681 | (0.933) | 56874 | 1.00000 | 1.057 |
| 5 2-Chlorophenol-d4 | 132 | | 7.866 | 7.882 | (0.958) | 57803 | 1.50000 | 1.507 |
| 4 Bis(2-Chloroethyl)ether | 93 | | 7.796 | 7.805 | (0.949) | 42650 | 1.00000 | 1.130 |
| 6 2-Chlorophenol | 128 | | 7.897 | 7.905 | (0.961) | 42304 | 1.00000 | 1.067 |
| 7 1,3-Dichlorobenzene | 146 | | 8.152 | 8.153 | (0.992) | 46126 | 1.00000 | 1.056 |
| * 8 1,4-Dichlorobenzene-d4 | 152 | | 8.214 | 8.207 | (1.000) | 117168 | 4.00000 | |
| 9 1,4-Dichlorobenzene | 146 | | 8.245 | 8.246 | (1.004) | 43566 | 1.00000 | 1.009 |
| \$ 10 1,2-Dichlorobenzene-d4 | 152 | | 8.564 | 8.572 | (1.043) | 30212 | 1.00000 | 1.046 |
| 12 1,2-Dichlorobenzene | 146 | | 8.595 | 8.595 | (1.046) | 44305 | 1.00000 | 1.070 |
| 11 Benzyl alcohol | 108 | | 8.525 | 8.688 | (1.038) | 16429 | 1.00000 | 0.6991 |
| 14 2,2'-oxybis(1-Chloropropane) | 121 | | 8.804 | 8.812 | (1.072) | 11810 | 1.00000 | 1.058 |
| 13 2-Methylphenol | 108 | | 8.758 | 8.774 | (1.066) | 36194 | 1.00000 | 1.065 |
| 17 Hexachloroethane | 117 | | 9.169 | 9.162 | (1.116) | 16575 | 1.00000 | 1.022 |
| 16 N-Nitroso-di-n-propylamine | 70 | | 9.068 | 9.076 | (1.104) | 27516 | 1.00000 | 1.063 |
| 15 4-Methylphenol | 108 | | 9.029 | 9.069 | (1.099) | 36110 | 1.00000 | 0.9145 |
| \$ 18 Nitrobenzene-d5 | 82 | | 9.309 | 9.317 | (0.873) | 42272 | 1.00000 | 1.033 |
| 19 Nitrobenzene | 77 | | 9.340 | 9.356 | (0.876) | 41449 | 1.00000 | 1.054 |
| 20 Isophorone | 82 | | 9.790 | 9.806 | (0.918) | 51815 | 1.00000 | 0.8453 |
| 21 2-Nitrophenol | 139 | | 9.968 | 9.992 | (0.935) | 13288 | 1.00000 | 0.6528 |
| 22 2,4-Dimethylphenol | 107 | | 10.054 | 10.062 | (0.943) | 77255 | 2.00000 | 2.156 |
| 23 Bis(2-Chloroethoxy)methane | 93 | | 10.240 | 10.256 | (0.960) | 43990 | 1.00000 | 1.113 |
| 24 Benzoic acid | 105 | | 10.665 | 10.665 | (1.000) | 15360 | 4.00000 | 1.082 (M) |
| 25 2,4-Dichlorophenol | 162 | | 10.418 | 10.441 | (0.977) | 68601 | 2.00000 | 1.903 |
| 26 1,2,4-Trichlorobenzene | 180 | | 10.588 | 10.588 | (0.993) | 43284 | 1.00000 | 1.069 |
| * 27 Naphthalene-d8 | 136 | | 10.665 | 10.665 | (1.000) | 418158 | 4.00000 | |
| 28 Naphthalene | 128 | | 10.703 | 10.704 | (1.004) | 116080 | 1.00000 | 1.041 |
| 29 4-Chloroaniline | 127 | | 10.866 | 10.889 | (1.019) | 98050 | 2.00000 | 2.055 |
| 30 Hexachlorobutadiene | 225 | | 11.082 | 11.082 | (1.039) | 24783 | 1.00000 | 1.003 |
| 31 4-Chloro-3-methylphenol | 107 | | 11.848 | 11.872 | (1.111) | 65521 | 2.00000 | 2.031 |
| 32 2-Methylnaphthalene | 142 | | 12.096 | 12.096 | (1.134) | 85405 | 1.00000 | 1.034 |
| 33 Hexachlorocyclopentadiene | 237 | | 12.568 | 12.560 | (0.882) | 40986 | 2.00000 | 1.547 |

| Compounds | QUANT SIG | | AMOUNTS | | | | |
|-----------------------------------|-----------|--------|---------|---------|----------|--------------------|-------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| 34 2,4,6-Trichlorophenol | 196 | 12.730 | 12.746 | (0.894) | 46794 | 2.00000 | 1.900 |
| 35 2,4,5-Trichlorophenol | 196 | 12.808 | 12.831 | (0.899) | 48880 | 2.00000 | 1.835 |
| § 36 2-Fluorobiphenyl | 172 | 12.885 | 12.893 | (0.904) | 103857 | 1.00000 | 1.058 |
| 37 2-Chloronaphthalene | 162 | 13.079 | 13.079 | (0.918) | 81581 | 1.00000 | 1.037 |
| 38 2-Nitroaniline | 65 | 13.357 | 13.373 | (0.938) | 40033 | 2.00000 | 1.951 |
| 39 Dimethylphthalate | 163 | 13.806 | 13.814 | (0.969) | 85285 | 1.00000 | 1.075 |
| 40 Acenaphthylene | 152 | 13.930 | 13.938 | (0.978) | 125829 | 1.00000 | 1.090 |
| 41 2,6-Dinitrotoluene | 165 | 13.930 | 13.938 | (0.978) | 37903 | 2.00000 | 2.039 |
| * 42 Acenaphthene-d10 | 164 | 14.247 | 14.247 | (1.000) | 252184 | 4.00000 | |
| 43 3-Nitroaniline | 138 | 14.208 | 14.232 | (0.997) | 36003 | 2.00000 | 1.890 |
| 44 Acenaphthene | 153 | 14.309 | 14.309 | (1.004) | 76524 | 1.00000 | 1.035 |
| 45 2,4-Dinitrophenol | 184 | 14.425 | 14.425 | (1.012) | 18721 | 4.00000 | 1.588 (MH) |
| 46 Dibenzofuran | 168 | 14.641 | 14.642 | (1.028) | 124319 | 1.00000 | 1.057 |
| 47 4-Nitrophenol | 109 | 14.580 | 14.580 | (1.023) | 14522 | 2.00000 | 1.537 (M) |
| 48 2,4-Dinitrotoluene | 165 | 14.726 | 14.734 | (1.034) | 52150 | 2.00000 | 1.949 |
| 50 Diethylphthalate | 149 | 15.260 | 15.260 | (1.071) | 79620 | 1.00000 | 1.073 |
| 49 Fluorene | 166 | 15.345 | 15.345 | (1.077) | 106613 | 1.00000 | 1.076 |
| 51 4-Chlorophenyl-phenylether | 204 | 15.361 | 15.361 | (1.078) | 55560 | 1.00000 | 1.054 |
| 52 4-Nitroaniline | 138 | 15.469 | 15.492 | (1.086) | 35238 | 2.00000 | 1.866 |
| 53 4,6-Dinitro-2-methylphenol | 198 | 15.553 | 15.608 | (0.902) | 39362 | 4.00000 | 2.387 |
| 54 N-Nitrosodiphenylamine | 169 | 15.615 | 15.616 | (0.905) | 67530 | 1.00000 | 1.084 |
| § 55 2,4,6-Tribromophenol | 330 | 15.885 | 15.893 | (1.115) | 16277 | 1.50000 | 1.197 |
| 56 4-Bromophenyl-phenylether | 248 | 16.348 | 16.348 | (0.948) | 27711 | 1.00000 | 1.012 |
| 57 Hexachlorobenzene | 284 | 16.641 | 16.634 | (0.965) | 31692 | 1.00000 | 1.053 |
| 58 Pentachlorophenol | 266 | 17.021 | 17.021 | (0.987) | 13941 | 2.00000 | 0.9809 (M) |
| * 59 Phenanthrene-d10 | 188 | 17.253 | 17.245 | (1.000) | 495615 | 4.00000 | |
| 60 Phenanthrene | 178 | 17.299 | 17.300 | (1.003) | 138036 | 1.00000 | 1.047 |
| 61 Anthracene | 178 | 17.392 | 17.392 | (1.008) | 130667 | 1.00000 | 1.048 |
| 62 Carbazole | 167 | 17.740 | 17.748 | (1.028) | 114013 | 1.00000 | 1.044 |
| 63 Di-n-butylphthalate | 149 | 18.599 | 18.599 | (1.078) | 118065 | 1.00000 | 0.8389 |
| 64 Fluoranthene | 202 | 19.721 | 19.721 | (0.882) | 157124 | 1.00000 | 1.041 |
| 65 Pyrene | 202 | 20.146 | 20.147 | (0.901) | 166315 | 1.00000 | 1.046 |
| § 66 Terphenyl-d14 | 244 | 20.479 | 20.480 | (0.916) | 131310 | 1.00000 | 1.072 |
| 67 Butylbenzylphthalate | 149 | 21.447 | 21.447 | (0.959) | 45877 | 1.00000 | 0.8168 |
| 68 Benzo(a)anthracene | 228 | 22.337 | 22.338 | (0.999) | 143935 | 1.00000 | 1.081 |
| * 69 Chrysene-d12 | 240 | 22.368 | 22.361 | (1.000) | 397673 | 4.00000 | |
| 70 3,3'-Dichlorobenzidine | 252 | 22.322 | 22.330 | (0.998) | 114067 | 3.00000 | 2.998 |
| 71 Chrysene | 228 | 22.407 | 22.415 | (1.002) | 131696 | 1.00000 | 1.029 |
| 72 bis(2-Ethylhexyl)phthalate | 149 | 22.500 | 22.500 | (0.958) | 60745 | 1.00000 | 0.8484 |
| * 134 Di-n-octylphthalate-d4 | 153 | 23.476 | 23.476 | (1.000) | 469239 | 4.00000 | |
| 73 Di-n-octylphthalate | 149 | 23.491 | 23.484 | (1.001) | 126485 | 1.00000 | 1.024 |
| 74 Benzo(b)fluoranthene | 252 | 24.103 | 24.103 | (0.975) | 127479 | 1.00000 | 1.007 |
| 75 Benzo(k)fluoranthene | 252 | 24.134 | 24.134 | (0.977) | 143082 | 1.00000 | 1.047 |
| 76 Benzo(a)pyrene | 252 | 24.621 | 24.622 | (0.996) | 111382 | 1.00000 | 1.025 |
| * 77 Perylene-d12 | 264 | 24.714 | 24.715 | (1.000) | 383322 | 4.00000 | |
| 78 Indeno(1,2,3-cd)pyrene | 276 | 26.784 | 26.793 | (1.084) | 139776 | 1.00000 | 1.022 |
| 79 Dibenzo(a,h)anthracene | 278 | 26.800 | 26.800 | (1.084) | 120650 | 1.00000 | 1.039 |
| 80 Benzo(g,h,i)perylene | 276 | 27.383 | 27.391 | (1.108) | 118753 | 1.00000 | 0.9955 |
| 90 N-Nitrosodimethylamine | 74 | 4.004 | 4.104 | (0.487) | 39573 | 2.00000 | 1.663 |
| 91 Aniline | 93 | 7.696 | 7.735 | (0.937) | 99495 | 2.00000 | 1.806 |
| 93 Benzidine | 184 | 20.007 | 20.015 | (0.894) | 76786 | 2.00000 | 1.194 |
| 103 Pyridine | 79 | 4.027 | 4.027 | (0.490) | 45270 | 1.00000 | 0.6394 |
| 105 1-methylnaphthalene | 142 | 12.312 | 12.313 | (1.154) | 78806 | 1.00000 | 1.036 |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77 | 15.677 | 15.677 | (1.100) | 93491 | 1.00000 | 1.098 |

| Compounds | QUANT SIG | | | | | | AMOUNTS | |
|-------------------------------|-----------|--|--------|--------|---------|----------|--------------------|-------------------|
| | MASS | | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| 187 Total Benzofluoranthenes | 252 | | 24.103 | 24.103 | (0.975) | 256139 | 2.00000 | 2.068 |
| 120 2,3,4,6-Tetrachlorophenol | 232 | | 14.997 | 15.029 | (1.053) | 21792 | 1.00000 | 0.7657 |

QC Flag Legend

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

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 28-FEB-2023
 Lab File ID: NT1423022806.D Calibration Time: 12:51
 Lab Smp Id: SLB0374-CAL3
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: JGR
 Method File: \\target\share\chem3\nt14.i\20230228.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 114351 | 57176 | 228702 | 117168 | 2.46 |
| 27 Naphthalene-d8 | 408655 | 204328 | 817310 | 418158 | 2.33 |
| 42 Acenaphthene-d10 | 254000 | 127000 | 508000 | 252184 | -0.71 |
| 59 Phenanthrene-d10 | 490626 | 245313 | 981252 | 495615 | 1.02 |
| 69 Chrysene-d12 | 390400 | 195200 | 780800 | 397673 | 1.86 |
| 134 Di-n-octylphthala | 500829 | 250415 | 1001658 | 469239 | -6.31 |
| 77 Perylene-d12 | 375675 | 187838 | 751350 | 383322 | 2.04 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 8.21 | 7.71 | 8.71 | 8.21 | 0.00 |
| 27 Naphthalene-d8 | 10.67 | 10.17 | 11.17 | 10.67 | 0.00 |
| 42 Acenaphthene-d10 | 14.25 | 13.75 | 14.75 | 14.25 | 0.00 |
| 59 Phenanthrene-d10 | 17.25 | 16.75 | 17.75 | 17.25 | 0.00 |
| 69 Chrysene-d12 | 22.38 | 21.88 | 22.88 | 22.37 | -0.03 |
| 134 Di-n-octylphthala | 23.48 | 22.98 | 23.98 | 23.48 | -0.03 |
| 77 Perylene-d12 | 24.72 | 24.22 | 25.22 | 24.71 | -0.03 |

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

REVIEW SUMMARY FOR FILE - NT1423022806.D

Lab ID: SLB0374-CAL3
nt14.i, ABN.m, 28-FEB-2023 14:04

RT CO-ELUTION COMPOUNDS

13.930 Acenaphthylene and 2,6-Dinitrotoluene

Quant Method: ICAL

RRT CHECK

| RRT | CCV RRT | DELTA | COMPOUND |
|-------|---------|---------|------------------------|
| 1.038 | 1.059 | -0.0209 | Benzyl alcohol |
| 1.099 | 1.105 | -0.0058 | 4-Methylphenol |
| 1.000 | 0.000 | 1.0000 | Benzoic acid |
| 1.012 | 0.000 | 1.0125 | 2,4-Dinitrophenol |
| 1.023 | 0.000 | 1.0233 | 4-Nitrophenol |
| 0.987 | 0.000 | 0.9865 | Pentachlorophenol |
| 0.487 | 0.500 | -0.0127 | N-Nitrosodimethylamine |
| 0.937 | 0.942 | -0.0056 | Aniline |
| 0.490 | 0.000 | 0.4903 | Pyridine |
| 0.738 | 0.747 | -0.0082 | 2-Fluorophenol |

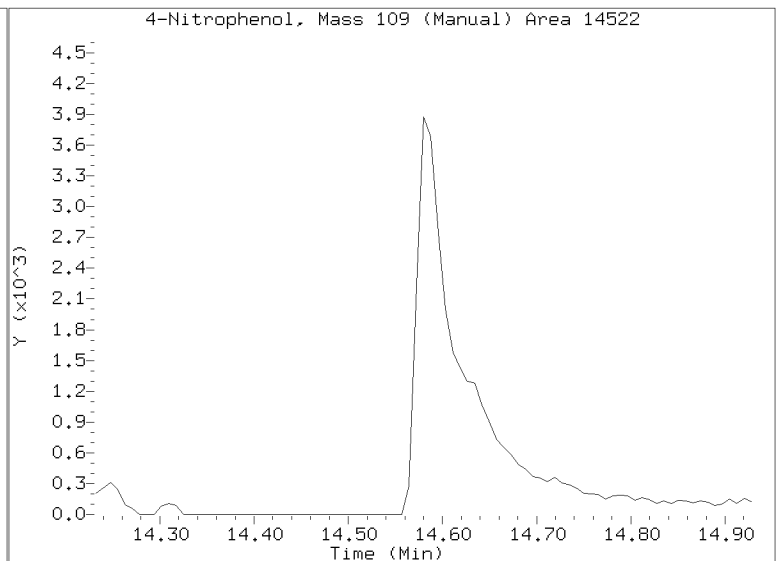
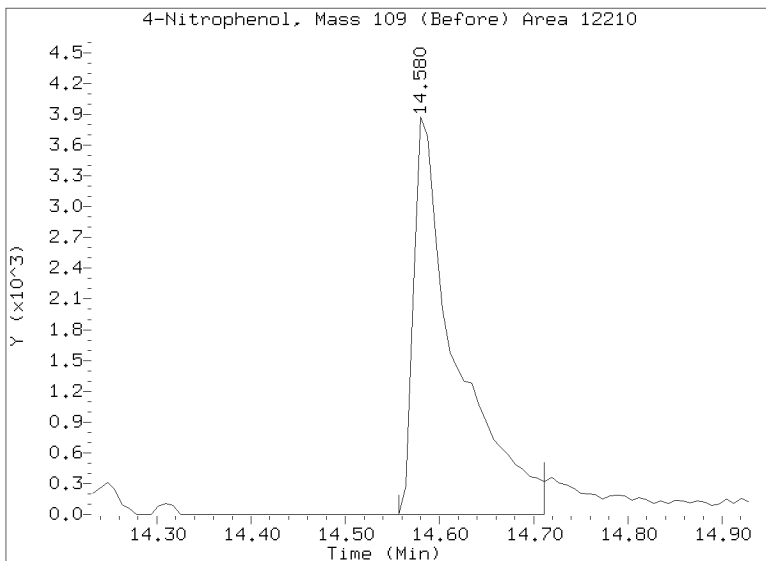
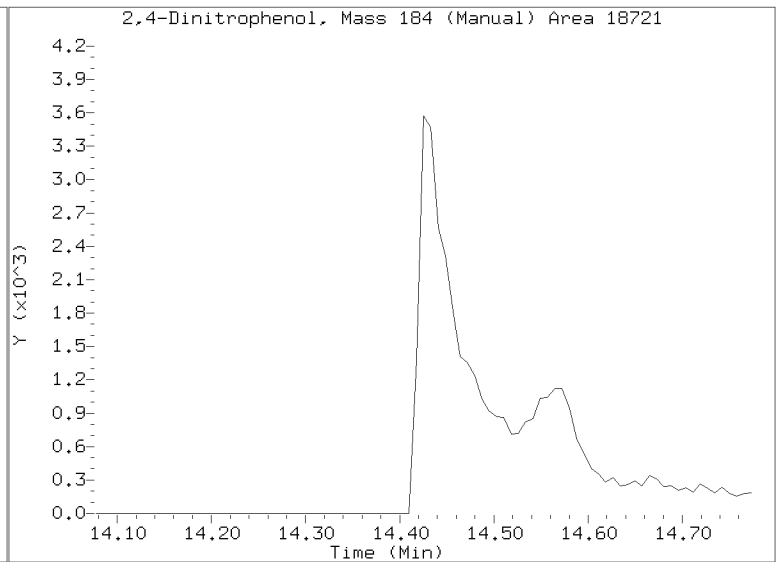
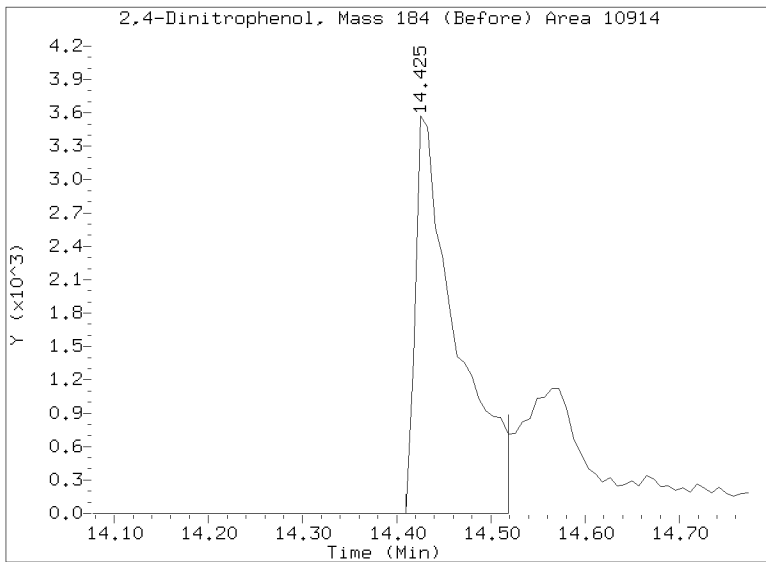
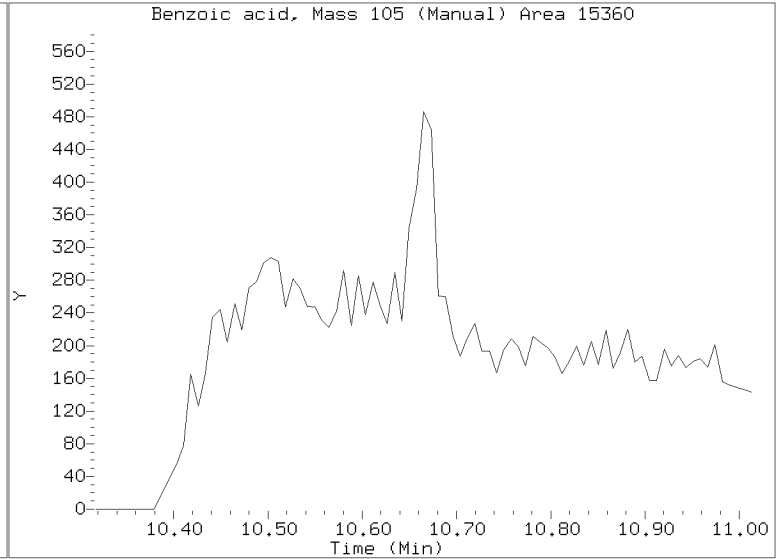
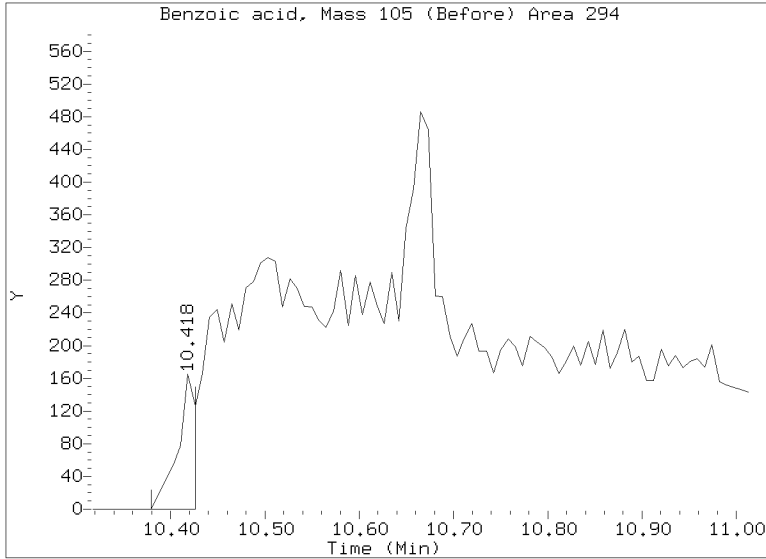
RRT check based on Ccal File: NT1423022808.D

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

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230228.b/NT1423022806.D
Injection Date: 28-FEB-2023 14:04
Lab ID:SLB0374-CAL3 Client ID:
Report Date: 03/10/2023 13:21



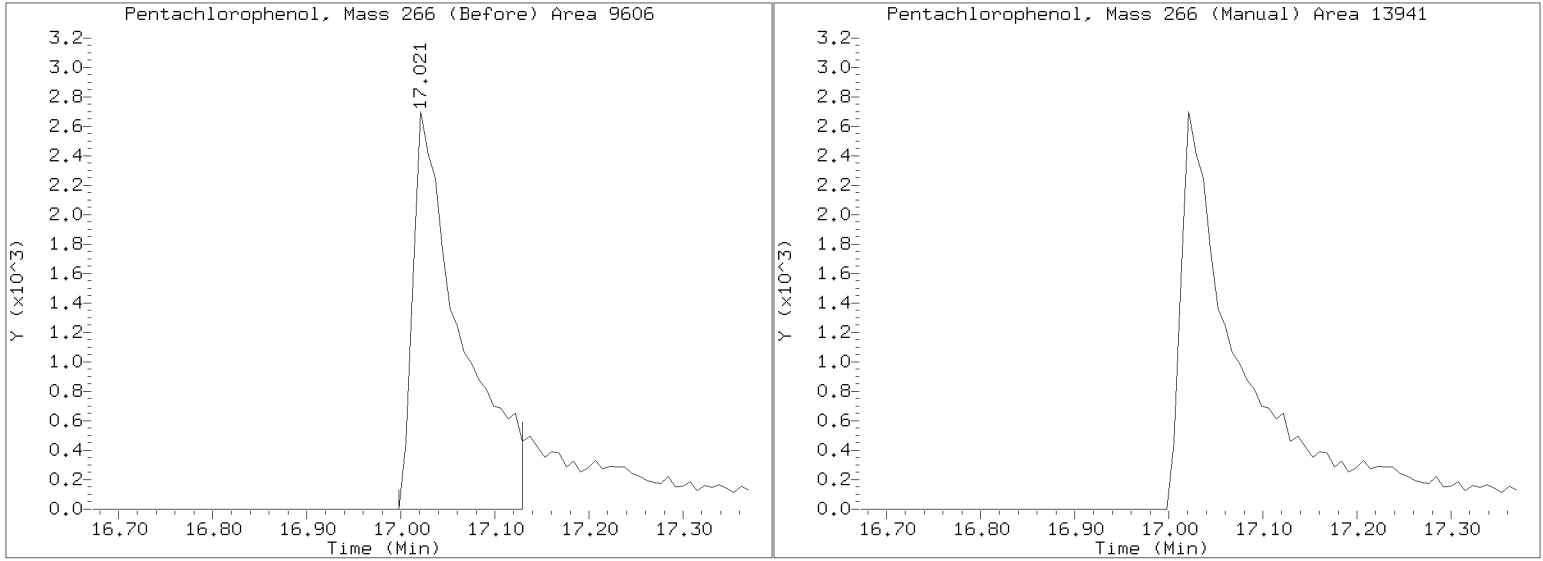
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230228.b/NT1423022806.D

Injection Date: 28-FEB-2023 14:04

Lab ID: SLB0374-CAL3 Client ID:

Report Date: 03/10/2023 13:21



Data File: \\target\share\chem3\nt14,1\20230228,16\NT1423022807.D

Date: 28-FEB-2023 14:40

Client ID:

Sample Info: SLB0374-CAL2

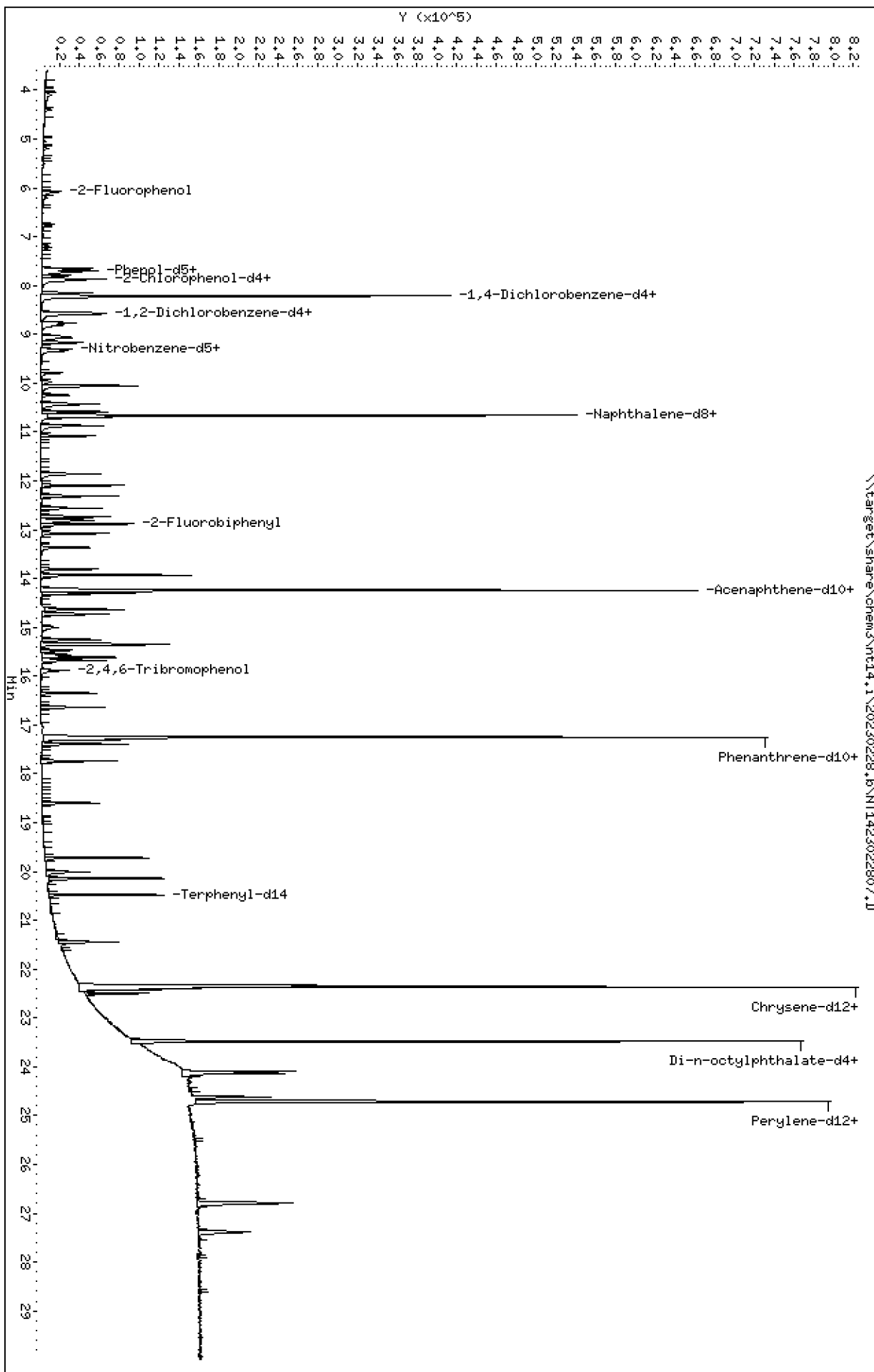
Column phase: ZB-5msi

Instrument: nt14,1

Operator: JGR

Column diameter: 0.25

Page 1



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230228.b\NT1423022807.D
 Lab Smp Id: SLB0374-CAL2
 Inj Date : 28-FEB-2023 14:40 MS Autotune Date: 17-MAY-2011 01:22
 Operator : JGR Inst ID: nt14.i
 Smp Info : SLB0374-CAL2
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt14.i\20230228.b\ABN.m
 Meth Date : 10-Mar-2023 12:09 van Quant Type: ISTD
 Cal Date : 28-FEB-2023 15:16 Cal File: NT1423022808.D
 Als bottle: 7 Calibration Sample, Level: 2
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: ICAL.sub
 Target Version: 4.14
 Processing Host: VANS-201906

| Compounds | QUANT | SIG | RT | EXP RT | REL RT | RESPONSE | AMOUNTS | |
|---------------------------------|-------|-----|------------------------|--------|---------|----------|---------|------------|
| | | | | | | | CAL-AMT | ON-COL |
| | MASS | | | | | | (ug/mL) | (ug/mL) |
| \$ 1 2-Fluorophenol | 112 | | 6.082 | 6.128 | (0.740) | 24340 | 0.75000 | 0.7108 (M) |
| \$ 2 Phenol-d5 | 99 | | 7.650 | 7.665 | (0.931) | 34027 | 0.75000 | 0.6999 |
| 3 Phenol | 94 | | 7.673 | 7.681 | (0.934) | 27331 | 0.50000 | 0.4711 |
| \$ 5 2-Chlorophenol-d4 | 132 | | 7.866 | 7.882 | (0.958) | 29542 | 0.75000 | 0.7146 |
| 4 Bis(2-Chloroethyl)ether | 93 | | 7.797 | 7.805 | (0.949) | 21291 | 0.50000 | 0.5210 |
| 6 2-Chlorophenol | 128 | | 7.897 | 7.905 | (0.961) | 20982 | 0.50000 | 0.4910 |
| 7 1,3-Dichlorobenzene | 146 | | 8.153 | 8.153 | (0.992) | 24624 | 0.50000 | 0.5229 |
| * 8 1,4-Dichlorobenzene-d4 | 152 | | 8.215 | 8.207 | (1.000) | 126289 | 4.00000 | |
| 9 1,4-Dichlorobenzene | 146 | | 8.246 | 8.246 | (1.004) | 24330 | 0.50000 | 0.5228 |
| \$ 10 1,2-Dichlorobenzene-d4 | 152 | | 8.564 | 8.572 | (1.043) | 16123 | 0.50000 | 0.5180 |
| 12 1,2-Dichlorobenzene | 146 | | 8.595 | 8.595 | (1.046) | 23444 | 0.50000 | 0.5253 |
| 11 Benzyl alcohol | 108 | | 8.548 | 8.688 | (1.041) | 7780 | 0.50000 | 0.3075 (M) |
| 14 2,2'-oxybis(1-Chloropropane) | 121 | | 8.812 | 8.812 | (1.073) | 6089 | 0.50000 | 0.5059 |
| 13 2-Methylphenol | 108 | | 8.766 | 8.774 | (1.067) | 17130 | 0.50000 | 0.4674 |
| 17 Hexachloroethane | 117 | | 9.169 | 9.162 | (1.116) | 8583 | 0.50000 | 0.4911 |
| 16 N-Nitroso-di-n-propylamine | 70 | | 9.069 | 9.076 | (1.104) | 12823 | 0.50000 | 0.4596 |
| 15 4-Methylphenol | 108 | | 9.037 | 9.069 | (1.100) | 15637 | 0.50000 | 0.3665 |
| \$ 18 Nitrobenzene-d5 | 82 | | 9.309 | 9.317 | (0.873) | 20910 | 0.50000 | 0.4803 |
| 19 Nitrobenzene | 77 | | 9.340 | 9.356 | (0.876) | 20431 | 0.50000 | 0.4883 |
| 20 Isophorone | 82 | | 9.790 | 9.806 | (0.918) | 23868 | 0.50000 | 0.3652 |
| 21 2-Nitrophenol | 139 | | 9.976 | 9.992 | (0.935) | 4693 | 0.50000 | 0.2167 |
| 22 2,4-Dimethylphenol | 107 | | 10.054 | 10.062 | (0.943) | 39712 | 1.00000 | 1.041 |
| 23 Bis(2-Chloroethoxy)methane | 93 | | 10.248 | 10.256 | (0.961) | 22357 | 0.50000 | 0.5315 |
| 24 Benzoic acid | 105 | | Compound Not Detected. | | | | | |
| 25 2,4-Dichlorophenol | 162 | | 10.426 | 10.441 | (0.978) | 29846 | 1.00000 | 0.7731 |
| 26 1,2,4-Trichlorobenzene | 180 | | 10.588 | 10.588 | (0.993) | 22803 | 0.50000 | 0.5290 |
| * 27 Naphthalene-d8 | 136 | | 10.665 | 10.665 | (1.000) | 445088 | 4.00000 | |
| 28 Naphthalene | 128 | | 10.704 | 10.704 | (1.004) | 62560 | 0.50000 | 0.5269 |
| 29 4-Chloroaniline | 127 | | 10.874 | 10.889 | (1.020) | 46350 | 1.00000 | 0.9128 |
| 30 Hexachlorobutadiene | 225 | | 11.082 | 11.082 | (1.039) | 13120 | 0.50000 | 0.4988 |
| 31 4-Chloro-3-methylphenol | 107 | | 11.856 | 11.872 | (1.112) | 28906 | 1.00000 | 0.8419 |
| 32 2-Methylnaphthalene | 142 | | 12.096 | 12.096 | (1.134) | 45234 | 0.50000 | 0.5145 |
| 33 Hexachlorocyclopentadiene | 237 | | 12.560 | 12.560 | (0.882) | 17596 | 1.00000 | 0.6250 |

| Compounds | QUANT SIG | | | | | AMOUNTS | |
|-----------------------------------|-----------|--------|--------|---------|----------|--------------------|-------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| 34 2,4,6-Trichlorophenol | 196 | 12.731 | 12.746 | (0.894) | 21131 | 1.00000 | 0.8064 |
| 35 2,4,5-Trichlorophenol | 196 | 12.808 | 12.831 | (0.899) | 21572 | 1.00000 | 0.7614 |
| \$ 36 2-Fluorobiphenyl | 172 | 12.885 | 12.893 | (0.904) | 53957 | 0.50000 | 0.5168 |
| 37 2-Chloronaphthalene | 162 | 13.079 | 13.079 | (0.918) | 42411 | 0.50000 | 0.5067 |
| 38 2-Nitroaniline | 65 | 13.365 | 13.373 | (0.938) | 17779 | 1.00000 | 0.8145 |
| 39 Dimethylphthalate | 163 | 13.806 | 13.814 | (0.969) | 42857 | 0.50000 | 0.5079 |
| 40 Acenaphthylene | 152 | 13.930 | 13.938 | (0.978) | 63411 | 0.50000 | 0.5163 |
| 41 2,6-Dinitrotoluene | 165 | 13.930 | 13.938 | (0.978) | 18015 | 1.00000 | 0.9111 |
| * 42 Acenaphthene-d10 | 164 | 14.247 | 14.247 | (1.000) | 268255 | 4.00000 | |
| 43 3-Nitroaniline | 138 | 14.217 | 14.232 | (0.998) | 16369 | 1.00000 | 0.8077 |
| 44 Acenaphthene | 153 | 14.309 | 14.309 | (1.004) | 40351 | 0.50000 | 0.5132 |
| 45 2,4-Dinitrophenol | 184 | 14.588 | 14.425 | (1.024) | 3318 | 2.00000 | 0.2654 (M) |
| 46 Dibenzofuran | 168 | 14.642 | 14.642 | (1.028) | 64625 | 0.50000 | 0.5165 |
| 47 4-Nitrophenol | 109 | 14.603 | 14.580 | (1.025) | 5053 | 1.00000 | 0.5045 (M) |
| 48 2,4-Dinitrotoluene | 165 | 14.727 | 14.734 | (1.034) | 24410 | 1.00000 | 0.8576 |
| 50 Diethylphthalate | 149 | 15.253 | 15.260 | (1.071) | 39348 | 0.50000 | 0.4987 |
| 49 Fluorene | 166 | 15.345 | 15.345 | (1.077) | 55465 | 0.50000 | 0.5261 |
| 51 4-Chlorophenyl-phenylether | 204 | 15.361 | 15.361 | (1.078) | 29519 | 0.50000 | 0.5263 |
| 52 4-Nitroaniline | 138 | 15.469 | 15.492 | (1.086) | 14840 | 1.00000 | 0.7387 |
| 53 4,6-Dinitro-2-methylphenol | 198 | 15.562 | 15.608 | (0.902) | 16032 | 2.00000 | 0.9126 (M) |
| 54 N-Nitrosodiphenylamine | 169 | 15.615 | 15.616 | (0.905) | 34934 | 0.50000 | 0.5261 |
| \$ 55 2,4,6-Tribromophenol | 330 | 15.885 | 15.893 | (1.115) | 7171 | 0.75000 | 0.4972 |
| 56 4-Bromophenyl-phenylether | 248 | 16.348 | 16.348 | (0.948) | 14286 | 0.50000 | 0.4894 |
| 57 Hexachlorobenzene | 284 | 16.642 | 16.634 | (0.965) | 16223 | 0.50000 | 0.5055 |
| 58 Pentachlorophenol | 266 | 17.036 | 17.021 | (0.987) | 3531 | 1.00000 | 0.2338 (M) |
| * 59 Phenanthrene-d10 | 188 | 17.253 | 17.245 | (1.000) | 528369 | 4.00000 | |
| 60 Phenanthrene | 178 | 17.300 | 17.300 | (1.003) | 73593 | 0.50000 | 0.5236 |
| 61 Anthracene | 178 | 17.392 | 17.392 | (1.008) | 65397 | 0.50000 | 0.4922 |
| 62 Carbazole | 167 | 17.741 | 17.748 | (1.028) | 59393 | 0.50000 | 0.5100 |
| 63 Di-n-butylphthalate | 149 | 18.599 | 18.599 | (1.078) | 52453 | 0.50000 | 0.3489 |
| 64 Fluoranthene | 202 | 19.721 | 19.721 | (0.882) | 80295 | 0.50000 | 0.4929 |
| 65 Pyrene | 202 | 20.147 | 20.147 | (0.901) | 86193 | 0.50000 | 0.5019 |
| \$ 66 Terphenyl-d14 | 244 | 20.479 | 20.480 | (0.916) | 69231 | 0.50000 | 0.5236 |
| 67 Butylbenzylphthalate | 149 | 21.447 | 21.447 | (0.959) | 19811 | 0.50000 | 0.3260 |
| 68 Benzo(a)anthracene | 228 | 22.338 | 22.338 | (0.999) | 76726 | 0.50000 | 0.5335 |
| * 69 Chrysene-d12 | 240 | 22.369 | 22.361 | (1.000) | 429353 | 4.00000 | |
| 70 3,3'-Dichlorobenzidine | 252 | 22.322 | 22.330 | (0.998) | 64154 | 1.50000 | 1.562 |
| 71 Chrysene | 228 | 22.408 | 22.415 | (1.002) | 71918 | 0.50000 | 0.5202 |
| 72 bis(2-Ethylhexyl)phthalate | 149 | 22.500 | 22.500 | (0.958) | 25596 | 0.50000 | 0.3408 |
| * 134 Di-n-octylphthalate-d4 | 153 | 23.476 | 23.476 | (1.000) | 491860 | 4.00000 | |
| 73 Di-n-octylphthalate | 149 | 23.491 | 23.484 | (1.001) | 68170 | 0.50000 | 0.5264 |
| 74 Benzo(b)fluoranthene | 252 | 24.103 | 24.103 | (0.975) | 69029 | 0.50000 | 0.4988 |
| 75 Benzo(k)fluoranthene | 252 | 24.142 | 24.134 | (0.977) | 75622 | 0.50000 | 0.5065 |
| 76 Benzo(a)pyrene | 252 | 24.622 | 24.622 | (0.996) | 56125 | 0.50000 | 0.4727 |
| * 77 Perylene-d12 | 264 | 24.715 | 24.715 | (1.000) | 418883 | 4.00000 | |
| 78 Indeno(1,2,3-cd)pyrene | 276 | 26.785 | 26.793 | (1.084) | 71788 | 0.50000 | 0.4803 |
| 79 Dibenzo(a,h)anthracene | 278 | 26.800 | 26.800 | (1.084) | 62200 | 0.50000 | 0.4900 |
| 80 Benzo(g,h,i)perylene | 276 | 27.383 | 27.391 | (1.108) | 61778 | 0.50000 | 0.4739 |
| 90 N-Nitrosodimethylamine | 74 | 4.012 | 4.104 | (0.488) | 16001 | 1.00000 | 0.6176 |
| 91 Aniline | 93 | 7.704 | 7.735 | (0.938) | 45900 | 1.00000 | 0.7678 |
| 93 Benzidine | 184 | 20.007 | 20.015 | (0.894) | 38356 | 1.00000 | 0.5510 |
| 103 Pyridine | 79 | 4.089 | 4.027 | (0.498) | 26705 | 0.50000 | 0.3489 (M) |
| 105 1-methylnaphthalene | 142 | 12.313 | 12.313 | (1.154) | 41268 | 0.50000 | 0.5099 |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77 | 15.677 | 15.677 | (1.100) | 47416 | 0.50000 | 0.5235 |

| Compounds | QUANT SIG | | | | | | AMOUNTS | |
|-------------------------------|-----------|--|--------|--------|---------|----------|--------------------|-------------------|
| | MASS | | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| ===== | ===== | | ===== | ===== | ===== | ===== | ===== | ===== |
| 187 Total Benzofluoranthenes | 252 | | 24.103 | 24.103 | (0.975) | 135967 | 1.00000 | 1.004 |
| 120 2,3,4,6-Tetrachlorophenol | 232 | | 15.005 | 15.029 | (1.053) | 9077 | 0.50000 | 0.3006 |

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 28-FEB-2023
 Lab File ID: NT1423022807.D Calibration Time: 12:51
 Lab Smp Id: SLB0374-CAL2
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: JGR
 Method File: \\target\share\chem3\nt14.i\20230228.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 114351 | 57176 | 228702 | 126289 | 10.44 |
| 27 Naphthalene-d8 | 408655 | 204328 | 817310 | 445088 | 8.92 |
| 42 Acenaphthene-d10 | 254000 | 127000 | 508000 | 268255 | 5.61 |
| 59 Phenanthrene-d10 | 490626 | 245313 | 981252 | 528369 | 7.69 |
| 69 Chrysene-d12 | 390400 | 195200 | 780800 | 429353 | 9.98 |
| 134 Di-n-octylphthala | 500829 | 250415 | 1001658 | 491860 | -1.79 |
| 77 Perylene-d12 | 375675 | 187838 | 751350 | 418883 | 11.50 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 8.21 | 7.71 | 8.71 | 8.22 | 0.01 |
| 27 Naphthalene-d8 | 10.67 | 10.17 | 11.17 | 10.67 | 0.00 |
| 42 Acenaphthene-d10 | 14.25 | 13.75 | 14.75 | 14.25 | 0.00 |
| 59 Phenanthrene-d10 | 17.25 | 16.75 | 17.75 | 17.25 | 0.00 |
| 69 Chrysene-d12 | 22.38 | 21.88 | 22.88 | 22.37 | -0.03 |
| 134 Di-n-octylphthala | 23.48 | 22.98 | 23.98 | 23.48 | -0.03 |
| 77 Perylene-d12 | 24.72 | 24.22 | 25.22 | 24.72 | -0.03 |

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

REVIEW SUMMARY FOR FILE - NT1423022807.D

Lab ID: SLB0374-CAL2
nt14.i, ABN.m, 28-FEB-2023 14:40

RT CO-ELUTION COMPOUNDS

13.931 Acenaphthylene and 2,6-Dinitrotoluene

Quant Method: ICAL

RRT CHECK

| RRT | CCV RRT | DELTA | COMPOUND |
|-------|---------|---------|------------------------|
| 1.041 | 1.059 | -0.0180 | Benzyl alcohol |
| 1.024 | 0.000 | 1.0239 | 2,4-Dinitrophenol |
| 1.025 | 0.000 | 1.0250 | 4-Nitrophenol |
| 0.987 | 0.000 | 0.9874 | Pentachlorophenol |
| 0.488 | 0.500 | -0.0117 | N-Nitrosodimethylamine |
| 0.498 | 0.000 | 0.4978 | Pyridine |
| 0.740 | 0.747 | -0.0064 | 2-Fluorophenol |

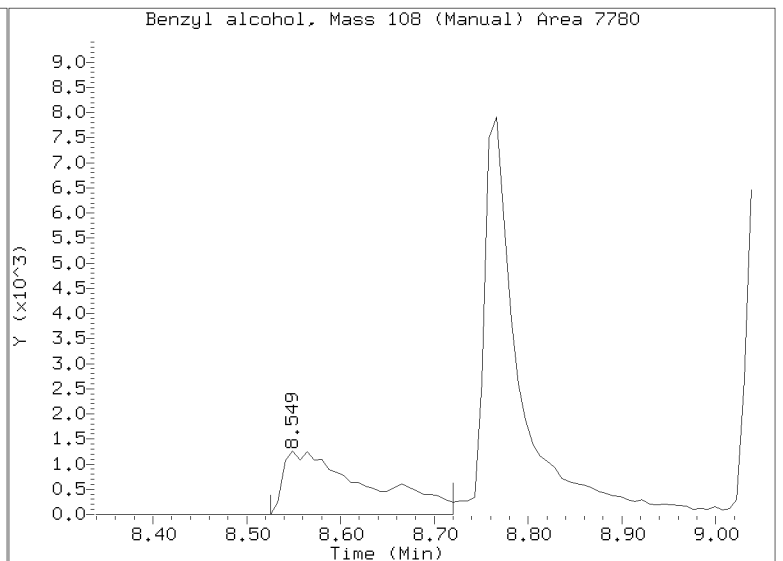
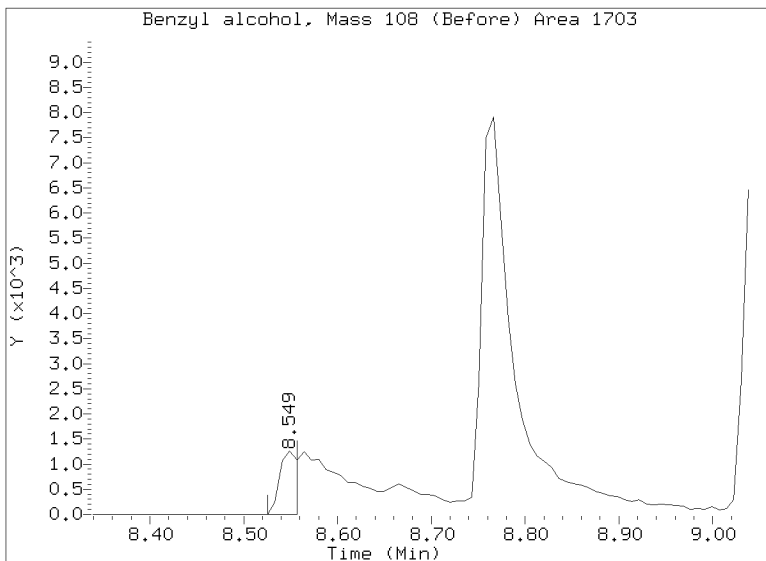
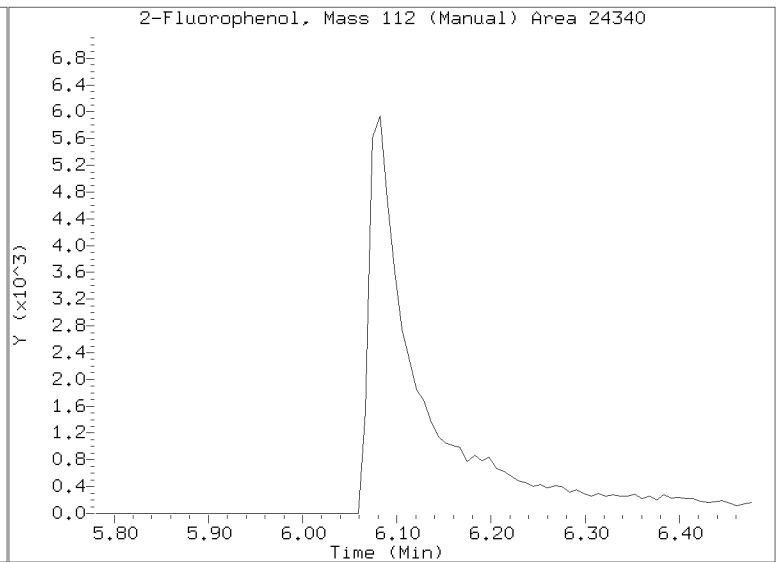
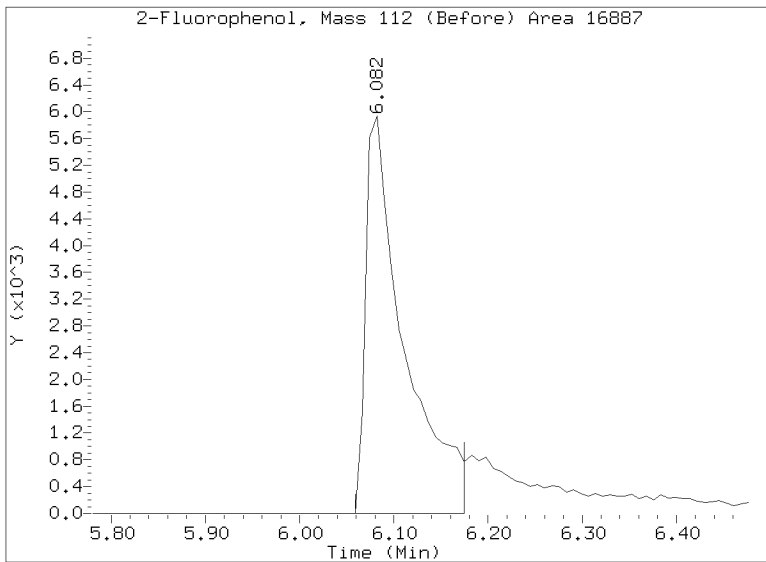
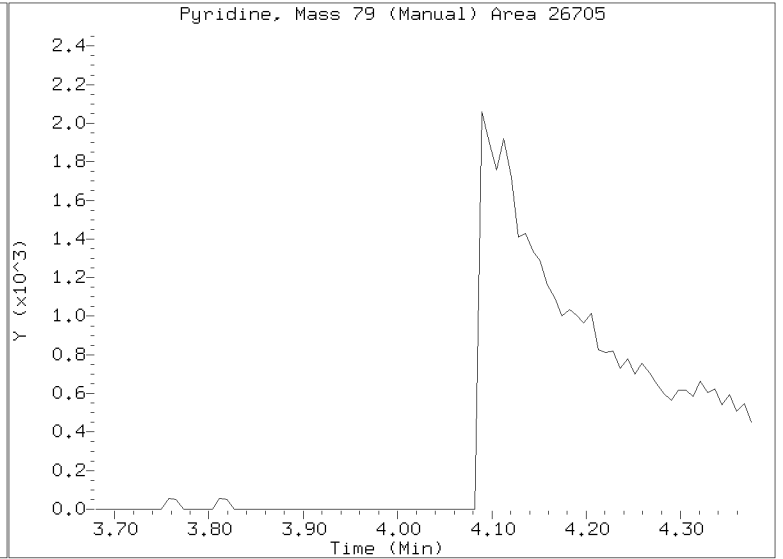
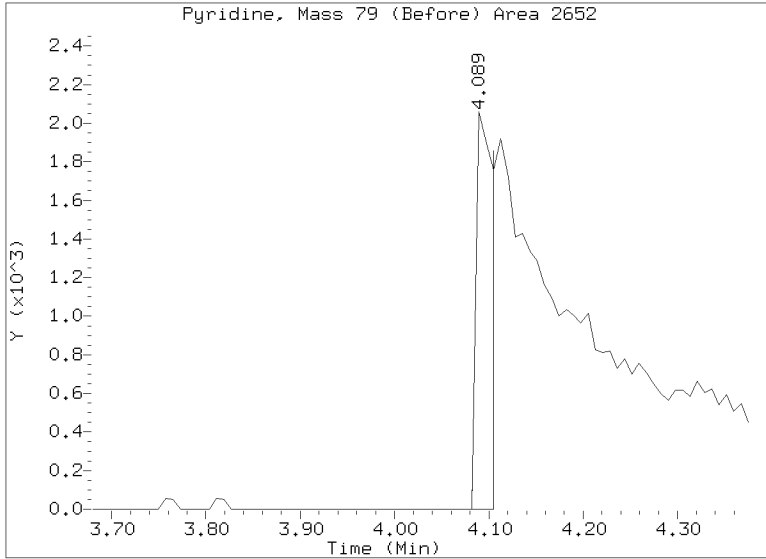
RRT check based on Ccal File: NT1423022808.D

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

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

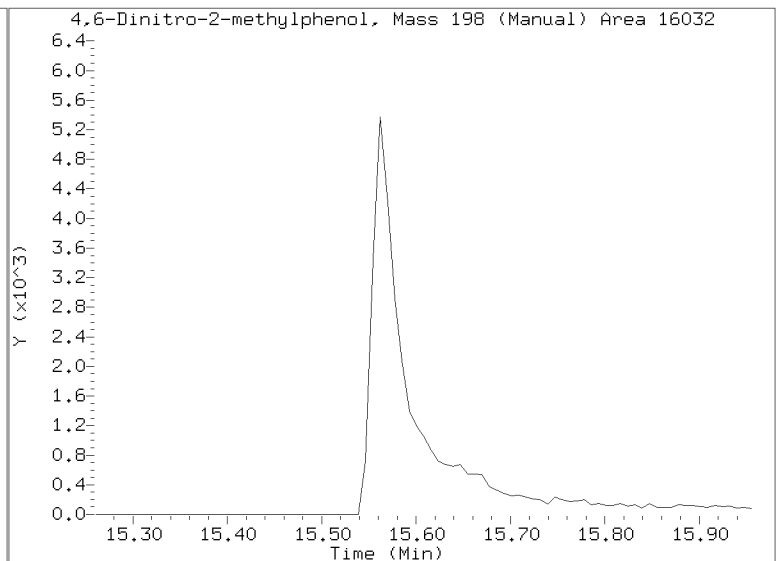
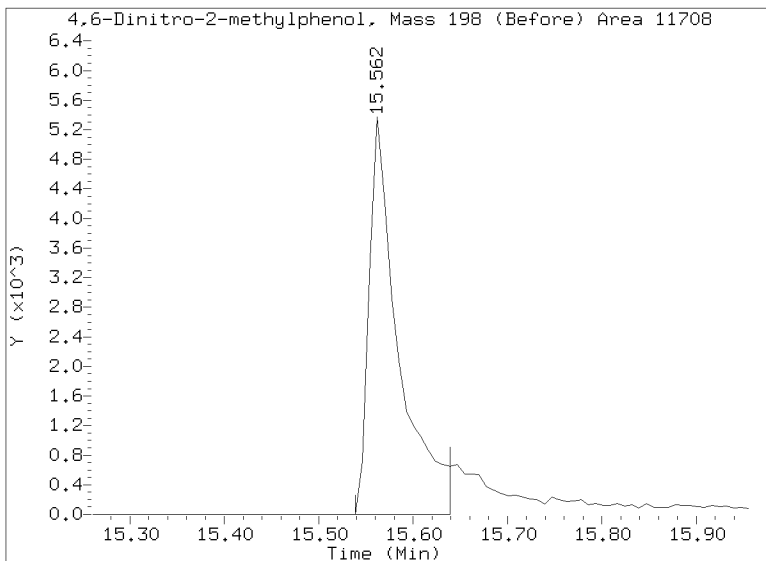
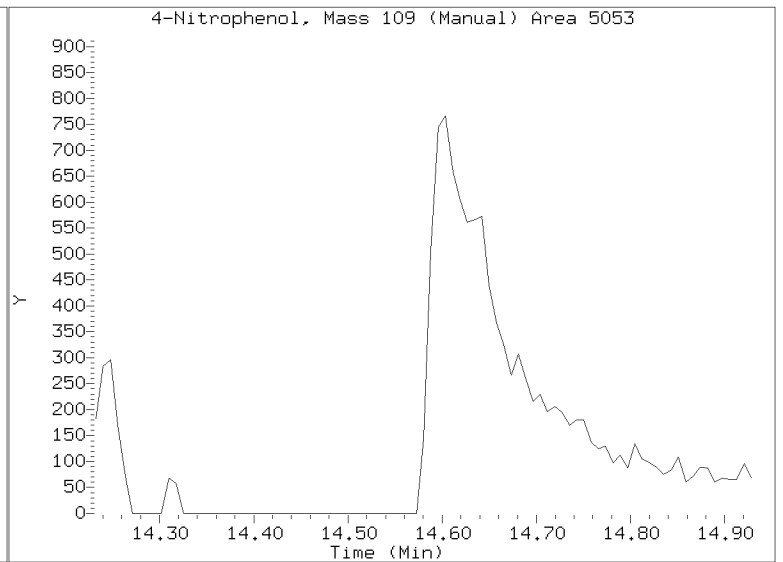
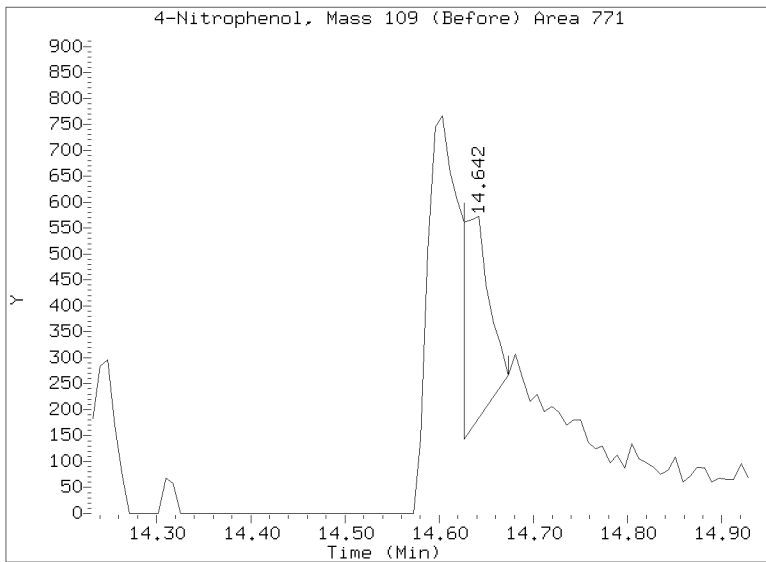
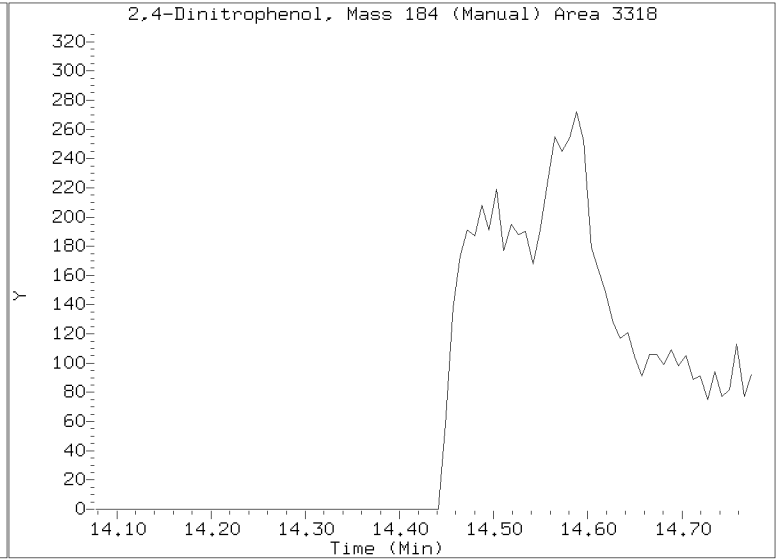
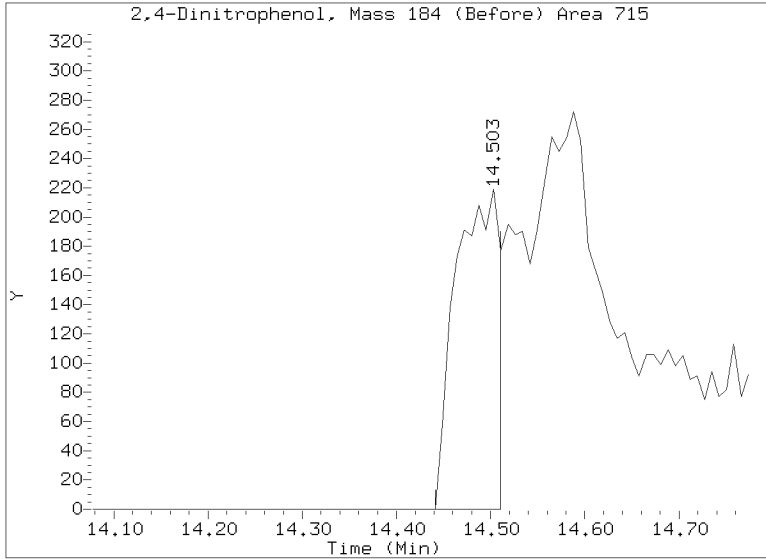
Quant Ion Manual Peak Adjustment Report

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Injection Date: 28-FEB-2023 14:40
Lab ID:SLB0374-CAL2 Client ID:
Report Date: 03/10/2023 13:21



Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230228.b/NT1423022807.D
Injection Date: 28-FEB-2023 14:40
Lab ID:SLB0374-CAL2 Client ID:
Report Date: 03/10/2023 13:21



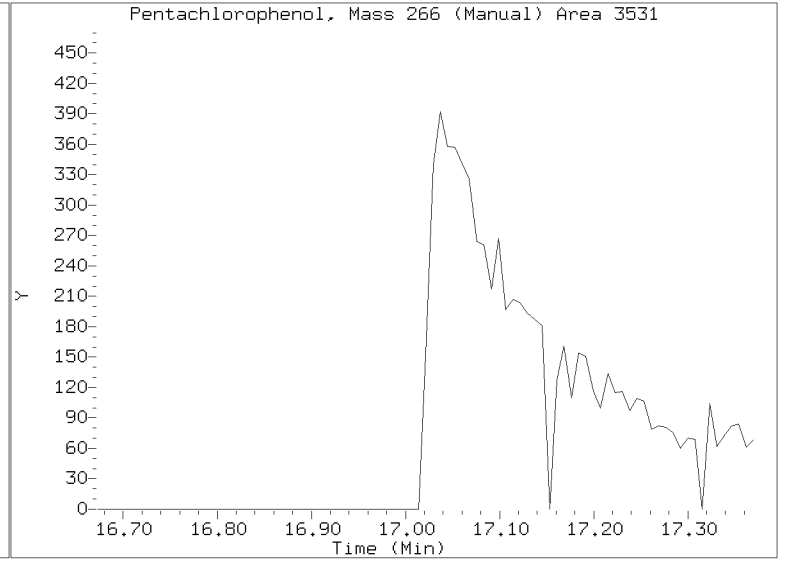
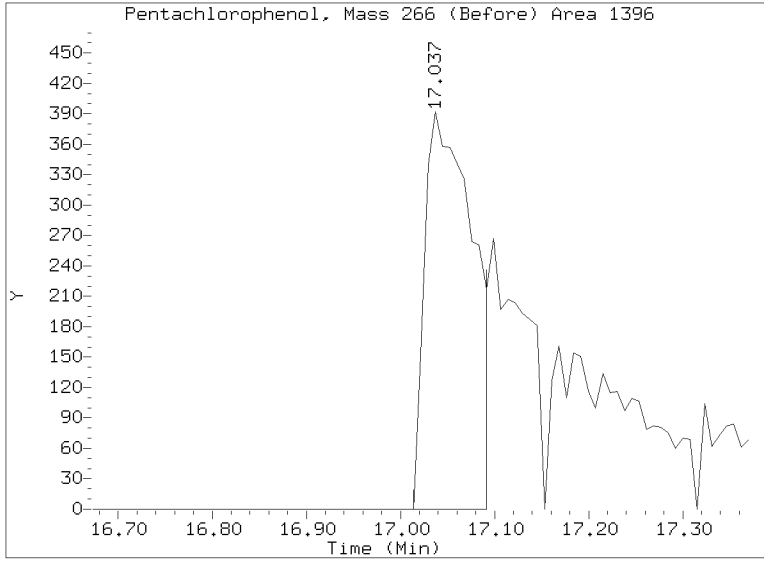
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230228.b/NT1423022807.D

Injection Date: 28-FEB-2023 14:40

Lab ID: SLB0374-CAL2 Client ID:

Report Date: 03/10/2023 13:21



Data File: \\target\share\chem3\nt14,1\20230228 JB\NT1423022808.D

Date: 28-FEB-2023 15:16

Client ID:

Sample Info: SLB0374-CAL1

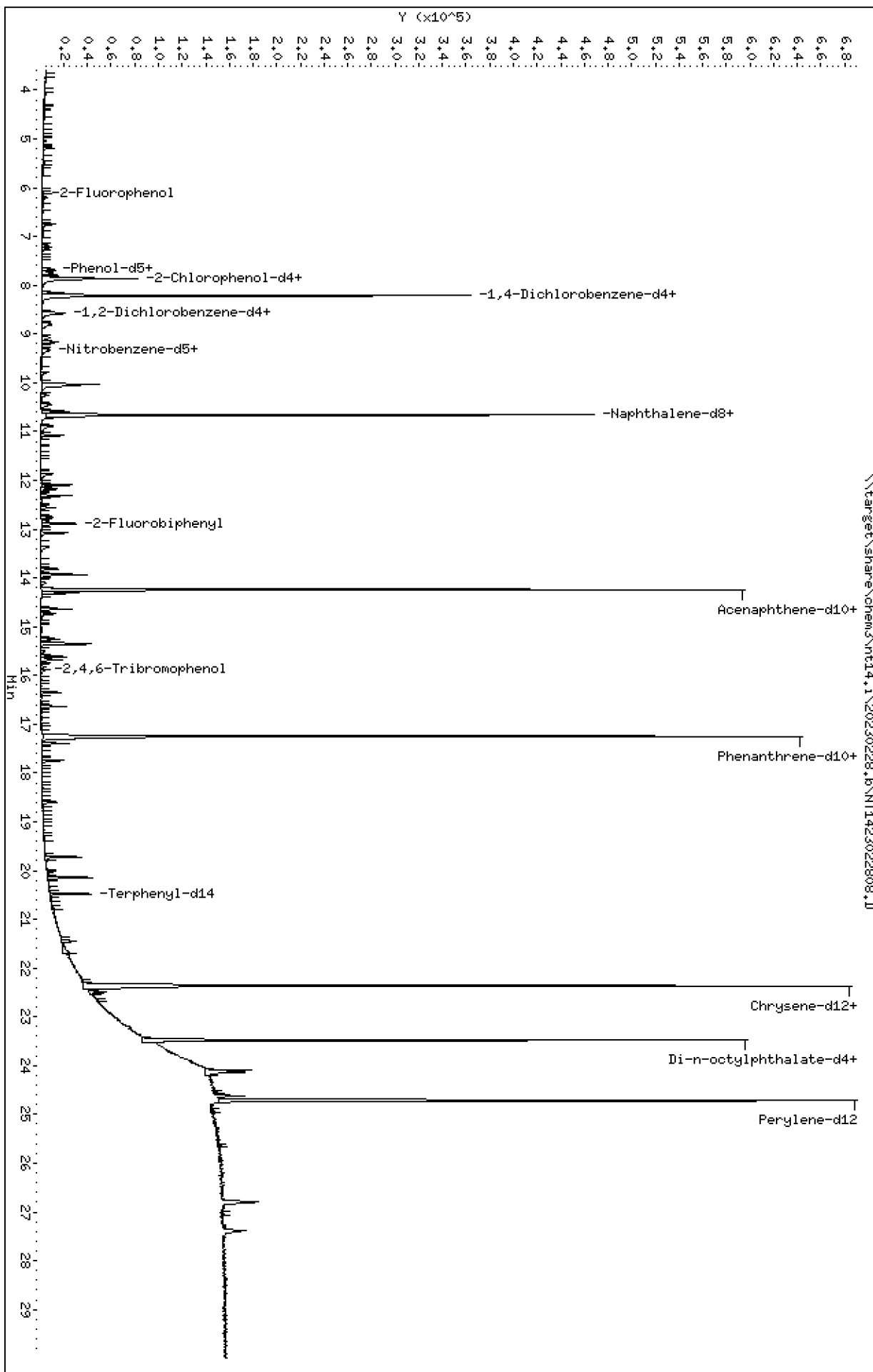
Column phase: ZB-5msi

Instrument: nt14,1

Operator: JGR

Column diameter: 0.25

Page 1



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230228.b\NT1423022808.D
 Lab Smp Id: SLB0374-CAL1
 Inj Date : 28-FEB-2023 15:16 MS Autotune Date: 17-MAY-2011 01:22
 Operator : JGR Inst ID: nt14.i
 Smp Info : SLB0374-CAL1
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt14.i\20230228.b\ABN.m
 Meth Date : 10-Mar-2023 12:09 van Quant Type: ISTD
 Cal Date : 28-FEB-2023 15:16 Cal File: NT1423022808.D
 Als bottle: 8 Calibration Sample, Level: 1
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: ICAL.sub
 Target Version: 4.14
 Processing Host: VANS-201906

| Compounds | QUANT | SIG | RT | EXP RT | REL RT | RESPONSE | AMOUNTS | |
|---------------------------------|-------|-----|------------------------|--------|---------|----------|---------|-------------|
| | | | | | | | CAL-AMT | ON-COL |
| | MASS | | | | | | (ug/mL) | (ug/mL) |
| \$ 1 2-Fluorophenol | 112 | | 6.128 | 6.128 | (0.747) | 6554 | 0.30000 | 0.2126 (M) |
| \$ 2 Phenol-d5 | 99 | | 7.665 | 7.665 | (0.934) | 9517 | 0.30000 | 0.2174 |
| 3 Phenol | 94 | | 7.681 | 7.681 | (0.936) | 9737 | 0.20000 | 0.1864 (M) |
| \$ 5 2-Chlorophenol-d4 | 132 | | 7.882 | 7.882 | (0.960) | 9808 | 0.30000 | 0.2635 (M) |
| 4 Bis(2-Chloroethyl)ether | 93 | | 7.805 | 7.805 | (0.951) | 17505 | 0.20000 | 0.4756 (M) |
| 6 2-Chlorophenol | 128 | | 7.905 | 7.905 | (0.963) | 6301 | 0.20000 | 0.1638 (M) |
| 7 1,3-Dichlorobenzene | 146 | | 8.153 | 8.153 | (0.993) | 8936 | 0.20000 | 0.2108 |
| * 8 1,4-Dichlorobenzene-d4 | 152 | | 8.207 | 8.207 | (1.000) | 113699 | 4.00000 | |
| 9 1,4-Dichlorobenzene | 146 | | 8.246 | 8.246 | (1.005) | 8261 | 0.20000 | 0.1972 |
| \$ 10 1,2-Dichlorobenzene-d4 | 152 | | 8.572 | 8.572 | (1.044) | 6074 | 0.20000 | 0.2168 |
| 12 1,2-Dichlorobenzene | 146 | | 8.595 | 8.595 | (1.047) | 8296 | 0.20000 | 0.2065 |
| 11 Benzyl alcohol | 108 | | 8.688 | 8.688 | (1.059) | 1301 | 0.20000 | 0.05716 (M) |
| 14 2,2'-oxybis(1-Chloropropane) | 121 | | 8.812 | 8.812 | (1.074) | 2138 | 0.20000 | 0.1973 |
| 13 2-Methylphenol | 108 | | 8.774 | 8.774 | (1.069) | 4681 | 0.20000 | 0.1419 |
| 17 Hexachloroethane | 117 | | 9.162 | 9.162 | (1.116) | 2909 | 0.20000 | 0.1849 |
| 16 N-Nitroso-di-n-propylamine | 70 | | 9.076 | 9.076 | (1.106) | 3907 | 0.20000 | 0.1555 (M) |
| 15 4-Methylphenol | 108 | | 9.069 | 9.069 | (1.105) | 3178 | 0.20000 | 0.08263 |
| \$ 18 Nitrobenzene-d5 | 82 | | 9.317 | 9.317 | (0.874) | 5728 | 0.20000 | 0.1462 |
| 19 Nitrobenzene | 77 | | 9.356 | 9.356 | (0.877) | 5763 | 0.20000 | 0.1531 |
| 20 Isophorone | 82 | | 9.806 | 9.806 | (0.919) | 6703 | 0.20000 | 0.1139 |
| 21 2-Nitrophenol | 139 | | 9.992 | 9.992 | (0.937) | 1099 | 0.20000 | 0.05643 (M) |
| 22 2,4-Dimethylphenol | 107 | | 10.062 | 10.062 | (0.943) | 11546 | 0.40000 | 0.3365 |
| 23 Bis(2-Chloroethoxy)methane | 93 | | 10.256 | 10.256 | (0.962) | 6251 | 0.20000 | 0.1652 |
| 24 Benzoic acid | 105 | | Compound Not Detected. | | | | | |
| 25 2,4-Dichlorophenol | 162 | | 10.441 | 10.441 | (0.979) | 7177 | 0.40000 | 0.2060 |
| 26 1,2,4-Trichlorobenzene | 180 | | 10.588 | 10.588 | (0.993) | 8045 | 0.20000 | 0.2075 |
| * 27 Naphthalene-d8 | 136 | | 10.665 | 10.665 | (1.000) | 400412 | 4.00000 | |
| 28 Naphthalene | 128 | | 10.704 | 10.704 | (1.004) | 22417 | 0.20000 | 0.2099 |
| 29 4-Chloroaniline | 127 | | 10.889 | 10.889 | (1.021) | 13355 | 0.40000 | 0.2923 (M) |
| 30 Hexachlorobutadiene | 225 | | 11.082 | 11.082 | (1.039) | 4554 | 0.20000 | 0.1924 |
| 31 4-Chloro-3-methylphenol | 107 | | 11.872 | 11.872 | (1.113) | 7502 | 0.40000 | 0.2429 |
| 32 2-Methylnaphthalene | 142 | | 12.096 | 12.096 | (1.134) | 14878 | 0.20000 | 0.1881 |
| 33 Hexachlorocyclopentadiene | 237 | | 12.560 | 12.560 | (0.882) | 3671 | 0.40000 | 0.1473 |

| Compounds | QUANT SIG | | | | | AMOUNTS | | |
|-----------------------------------|-----------|------------------------|--------|---------|----------|--------------------|-------------------|--|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/mL) | ON-COL (ug/mL) | |
| 34 2,4,6-Trichlorophenol | 196 | 12.746 | 12.746 | (0.895) | 4396 | 0.40000 | 0.1894 | |
| 35 2,4,5-Trichlorophenol | 196 | 12.831 | 12.831 | (0.901) | 6238 | 0.40000 | 0.2486 (M) | |
| § 36 2-Fluorobiphenyl | 172 | 12.893 | 12.893 | (0.905) | 18669 | 0.20000 | 0.2019 | |
| 37 2-Chloronaphthalene | 162 | 13.079 | 13.079 | (0.918) | 14344 | 0.20000 | 0.1935 | |
| 38 2-Nitroaniline | 65 | 13.373 | 13.373 | (0.939) | 3724 | 0.40000 | 0.1926 | |
| 39 Dimethylphthalate | 163 | 13.814 | 13.814 | (0.970) | 11975 | 0.20000 | 0.1602 | |
| 40 Acenaphthylene | 152 | 13.938 | 13.938 | (0.978) | 19325 | 0.20000 | 0.1776 | |
| 41 2,6-Dinitrotoluene | 165 | 13.938 | 13.938 | (0.978) | 4486 | 0.40000 | 0.2561 | |
| * 42 Acenaphthene-d10 | 164 | 14.247 | 14.247 | (1.000) | 237606 | 4.00000 | | |
| 43 3-Nitroaniline | 138 | 14.232 | 14.232 | (0.999) | 3425 | 0.40000 | 0.1908 (M) | |
| 44 Acenaphthene | 153 | 14.309 | 14.309 | (1.004) | 14307 | 0.20000 | 0.2054 | |
| 45 2,4-Dinitrophenol | 184 | Compound Not Detected. | | | | | | |
| 46 Dibenzofuran | 168 | 14.642 | 14.642 | (1.028) | 21433 | 0.20000 | 0.1934 | |
| 47 4-Nitrophenol | 109 | Compound Not Detected. | | | | | | |
| 48 2,4-Dinitrotoluene | 165 | 14.734 | 14.734 | (1.034) | 4644 | 0.40000 | 0.1842 | |
| 50 Diethylphthalate | 149 | 15.260 | 15.260 | (1.071) | 10798 | 0.20000 | 0.1545 | |
| 49 Fluorene | 166 | 15.345 | 15.345 | (1.077) | 18501 | 0.20000 | 0.1981 | |
| 51 4-Chlorophenyl-phenylether | 204 | 15.361 | 15.361 | (1.078) | 10754 | 0.20000 | 0.2165 | |
| 52 4-Nitroaniline | 138 | 15.492 | 15.492 | (1.087) | 2740 | 0.40000 | 0.1540 (M) | |
| 53 4,6-Dinitro-2-methylphenol | 198 | 15.608 | 15.608 | (0.905) | 1106 | 0.80000 | 0.07158 (M) | |
| 54 N-Nitrosodiphenylamine | 169 | 15.616 | 15.616 | (0.905) | 10356 | 0.20000 | 0.1772 | |
| § 55 2,4,6-Tribromophenol | 330 | 15.893 | 15.893 | (1.115) | 1358 | 0.30000 | 0.1065 (M) | |
| 56 4-Bromophenyl-phenylether | 248 | 16.348 | 16.348 | (0.948) | 4497 | 0.20000 | 0.1751 | |
| 57 Hexachlorobenzene | 284 | 16.634 | 16.634 | (0.965) | 5615 | 0.20000 | 0.1988 | |
| 58 Pentachlorophenol | 266 | Compound Not Detected. | | | | | | |
| * 59 Phenanthrene-d10 | 188 | 17.245 | 17.245 | (1.000) | 464964 | 4.00000 | | |
| 60 Phenanthrene | 178 | 17.300 | 17.300 | (1.003) | 25372 | 0.20000 | 0.2051 | |
| 61 Anthracene | 178 | 17.392 | 17.392 | (1.009) | 19028 | 0.20000 | 0.1627 | |
| 62 Carbazole | 167 | 17.748 | 17.748 | (1.029) | 17639 | 0.20000 | 0.1721 | |
| 63 Di-n-butylphthalate | 149 | 18.599 | 18.599 | (1.079) | 11994 | 0.20000 | 0.09057 | |
| 64 Fluoranthene | 202 | 19.721 | 19.721 | (0.882) | 24002 | 0.20000 | 0.1724 | |
| 65 Pyrene | 202 | 20.147 | 20.147 | (0.901) | 26308 | 0.20000 | 0.1793 | |
| § 66 Terphenyl-d14 | 244 | 20.480 | 20.480 | (0.916) | 22131 | 0.20000 | 0.1959 | |
| 67 Butylbenzylphthalate | 149 | 21.447 | 21.447 | (0.959) | 3827 | 0.20000 | 0.07363 | |
| 68 Benzo(a)anthracene | 228 | 22.338 | 22.338 | (0.999) | 23095 | 0.20000 | 0.1879 | |
| * 69 Chrysene-d12 | 240 | 22.361 | 22.361 | (1.000) | 366875 | 4.00000 | | |
| 70 3,3'-Dichlorobenzidine | 252 | 22.330 | 22.330 | (0.999) | 16148 | 0.60000 | 0.4601 | |
| 71 Chrysene | 228 | 22.415 | 22.415 | (1.002) | 24020 | 0.20000 | 0.2033 | |
| 72 bis(2-Ethylhexyl)phthalate | 149 | 22.500 | 22.500 | (0.958) | 5298 | 0.20000 | 0.09075 | |
| * 134 Di-n-octylphthalate-d4 | 153 | 23.476 | 23.476 | (1.000) | 382256 | 4.00000 | | |
| 73 Di-n-octylphthalate | 149 | 23.484 | 23.484 | (1.000) | 21604 | 0.20000 | 0.2147 | |
| 74 Benzo(b)fluoranthene | 252 | 24.103 | 24.103 | (0.975) | 21142 | 0.20000 | 0.1803 | |
| 75 Benzo(k)fluoranthene | 252 | 24.134 | 24.134 | (0.977) | 24515 | 0.20000 | 0.1938 | |
| 76 Benzo(a)pyrene | 252 | 24.622 | 24.622 | (0.996) | 16274 | 0.20000 | 0.1618 | |
| * 77 Perylene-d12 | 264 | 24.715 | 24.715 | (1.000) | 354894 | 4.00000 | | |
| 78 Indeno(1,2,3-cd)pyrene | 276 | 26.793 | 26.793 | (1.084) | 22271 | 0.20000 | 0.1759 | |
| 79 Dibenzo(a,h)anthracene | 278 | 26.800 | 26.800 | (1.084) | 19647 | 0.20000 | 0.1827 | |
| 80 Benzo(g,h,i)perylene | 276 | 27.391 | 27.391 | (1.108) | 20097 | 0.20000 | 0.1820 | |
| 90 N-Nitrosodimethylamine | 74 | 4.104 | 4.104 | (0.500) | 6020 | 0.40000 | 0.2572 (M) | |
| 91 Aniline | 93 | 7.735 | 7.735 | (0.942) | 9677 | 0.40000 | 0.1791 | |
| 93 Benzidine | 184 | 20.015 | 20.015 | (0.895) | 8994 | 0.40000 | 0.1510 | |
| 103 Pyridine | 79 | Compound Not Detected. | | | | | | |
| 105 1-methylnaphthalene | 142 | 12.313 | 12.313 | (1.154) | 14173 | 0.20000 | 0.1946 | |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77 | 15.677 | 15.677 | (1.100) | 13193 | 0.20000 | 0.1644 | |

| Compounds | QUANT SIG | | | | | | AMOUNTS | |
|-------------------------------|-----------|--|--------|--------|---------|----------|--------------------|-------------------|
| | MASS | | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| ===== | ===== | | ===== | ===== | ===== | ===== | ===== | ===== |
| 187 Total Benzofluoranthenes | 252 | | 24.103 | 24.103 | (0.975) | 43316 | 0.40000 | 0.3776 |
| 120 2,3,4,6-Tetrachlorophenol | 232 | | 15.028 | 15.029 | (1.055) | 1384 | 0.20000 | 0.05180 (M) |

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 28-FEB-2023
 Lab File ID: NT1423022808.D Calibration Time: 12:51
 Lab Smp Id: SLB0374-CAL1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: JGR
 Method File: \\target\share\chem3\nt14.i\20230228.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|--------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 114351 | 57176 | 228702 | 113699 | -0.57 |
| 27 Naphthalene-d8 | 408655 | 204328 | 817310 | 400412 | -2.02 |
| 42 Acenaphthene-d10 | 254000 | 127000 | 508000 | 237606 | -6.45 |
| 59 Phenanthrene-d10 | 490626 | 245313 | 981252 | 464964 | -5.23 |
| 69 Chrysene-d12 | 390400 | 195200 | 780800 | 366875 | -6.03 |
| 134 Di-n-octylphthala | 500829 | 250415 | 1001658 | 382256 | -23.68 |
| 77 Perylene-d12 | 375675 | 187838 | 751350 | 354894 | -5.53 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 8.21 | 7.71 | 8.71 | 8.21 | -0.09 |
| 27 Naphthalene-d8 | 10.67 | 10.17 | 11.17 | 10.67 | 0.00 |
| 42 Acenaphthene-d10 | 14.25 | 13.75 | 14.75 | 14.25 | 0.00 |
| 59 Phenanthrene-d10 | 17.25 | 16.75 | 17.75 | 17.25 | -0.04 |
| 69 Chrysene-d12 | 22.38 | 21.88 | 22.88 | 22.36 | -0.07 |
| 134 Di-n-octylphthala | 23.48 | 22.98 | 23.98 | 23.48 | -0.03 |
| 77 Perylene-d12 | 24.72 | 24.22 | 25.22 | 24.72 | -0.03 |

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

REVIEW SUMMARY FOR FILE - NT1423022808.D

Lab ID: SLB0374-CAL1
nt14.i, ABN.m, 28-FEB-2023 15:16

| RT | CO-ELUTION COMPOUNDS |
|--------|---------------------------------------|
| 13.939 | Acenaphthylene and 2,6-Dinitrotoluene |

Quant Method: ICAL

RRT CHECK

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

NONE

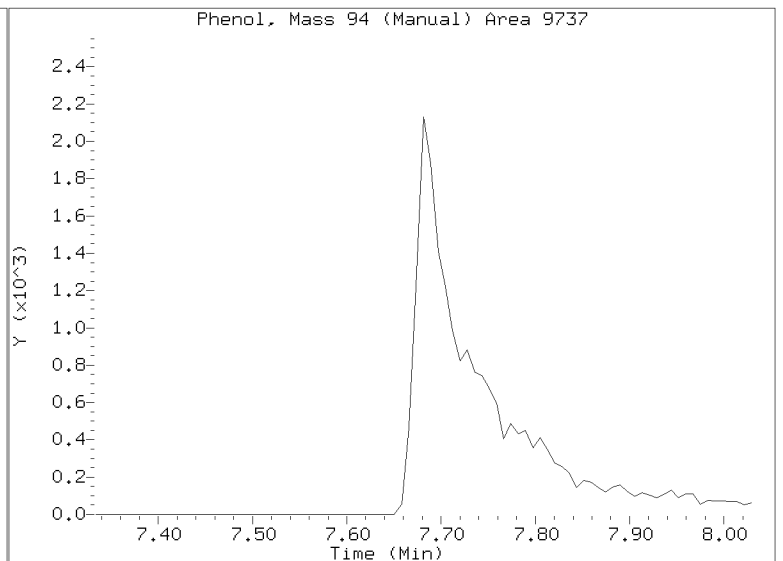
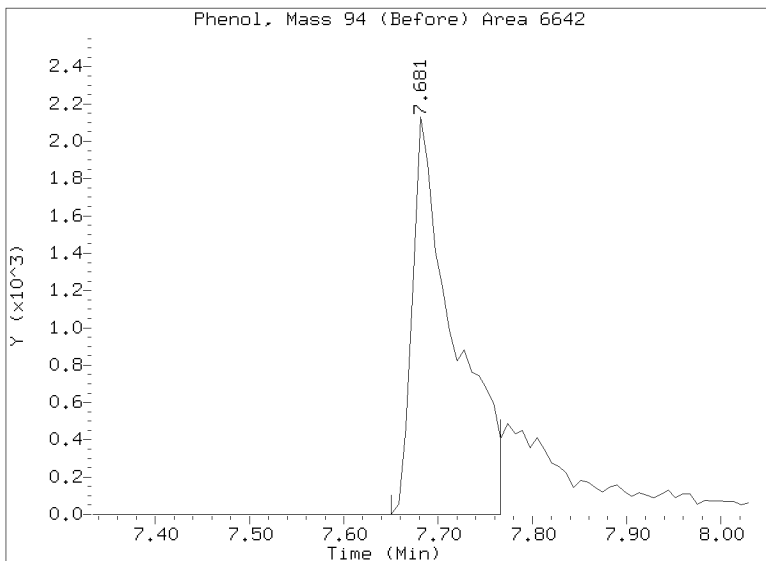
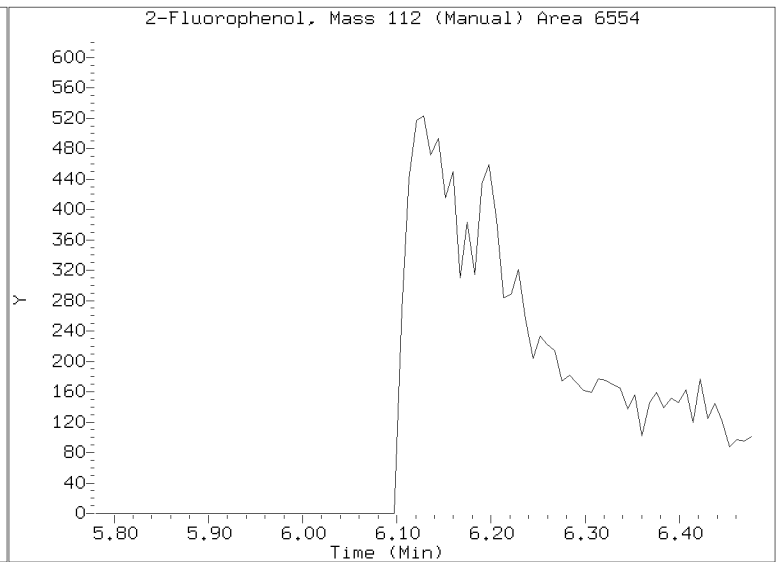
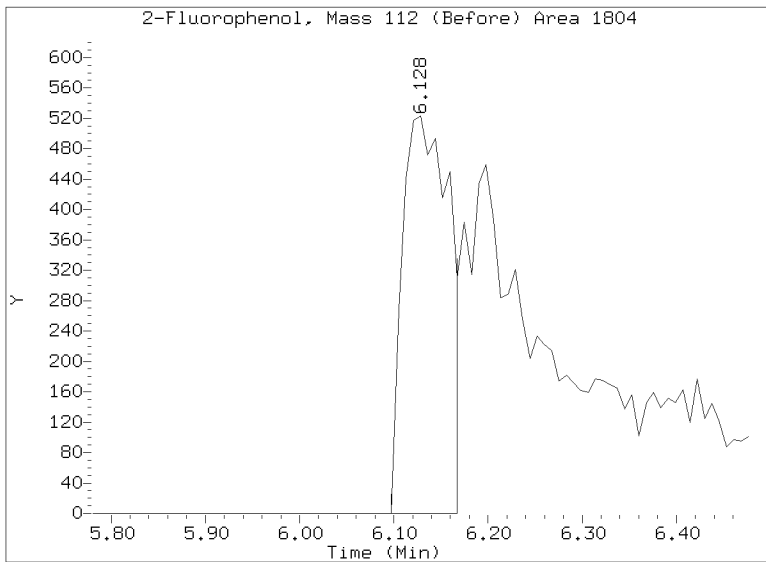
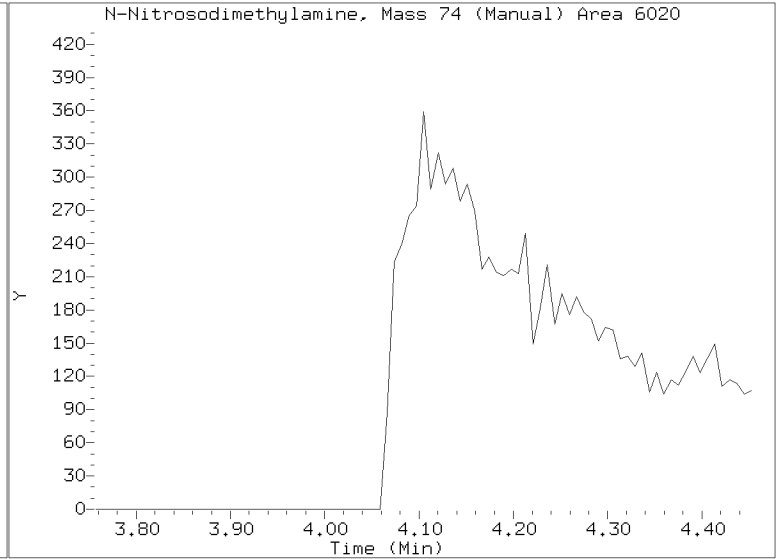
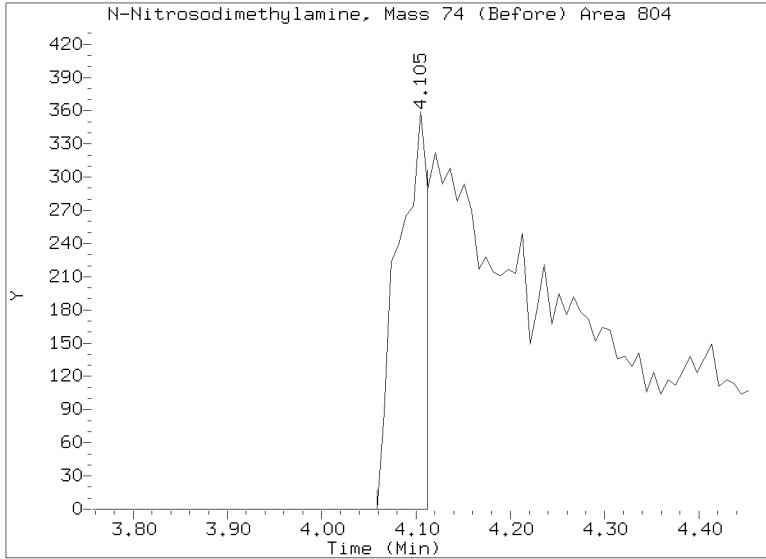
RRT check based on Ccal File: NT1423022808.D

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

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

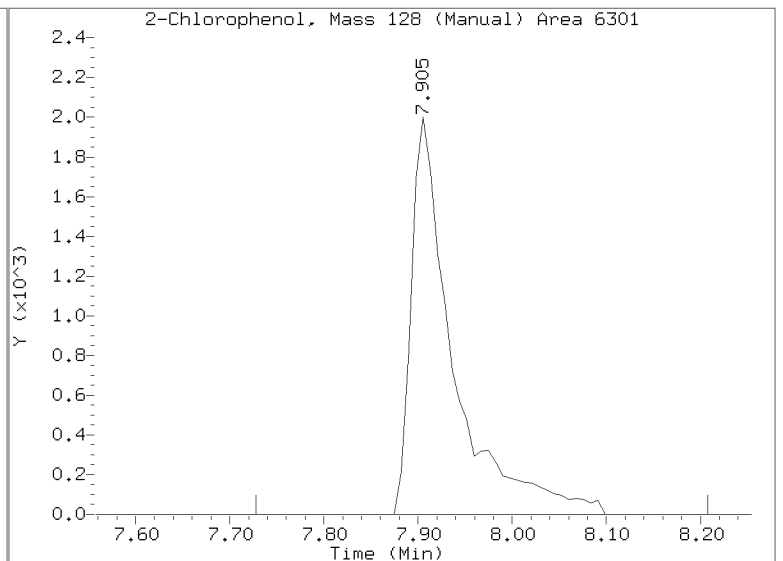
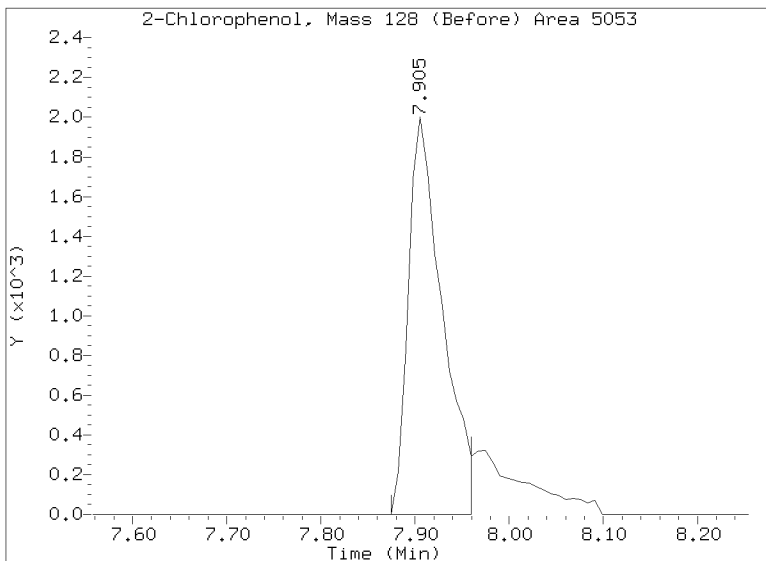
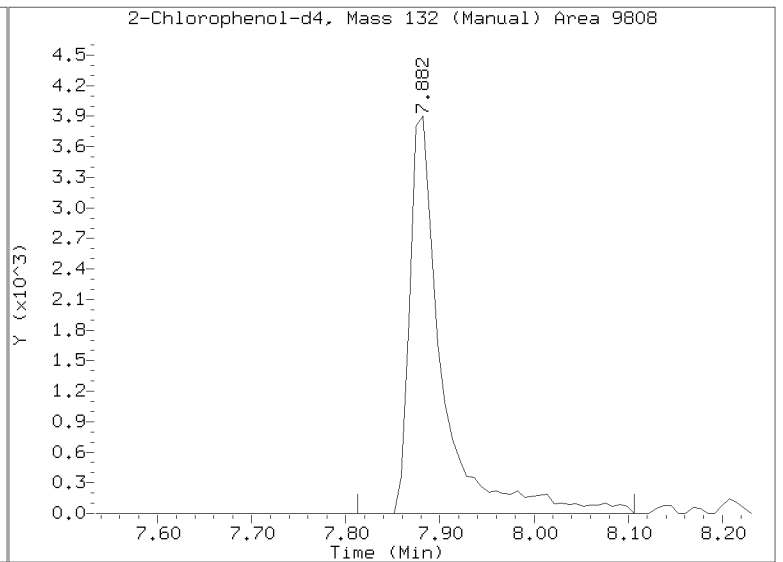
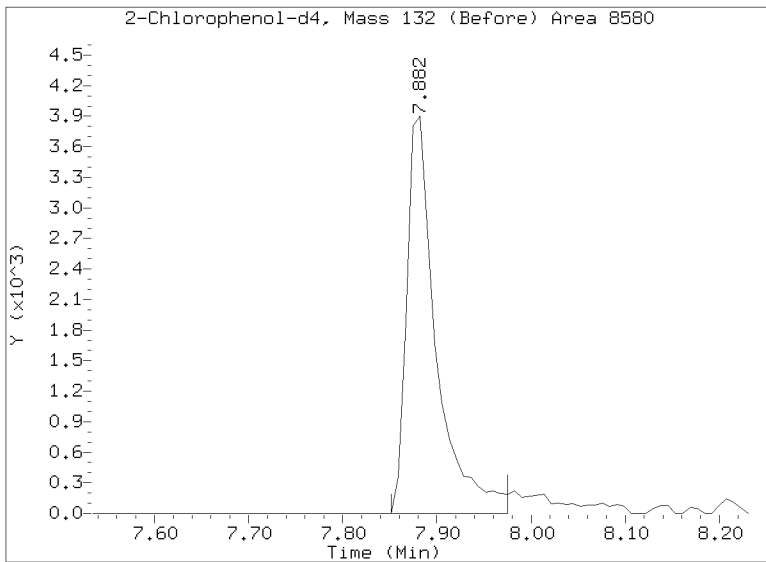
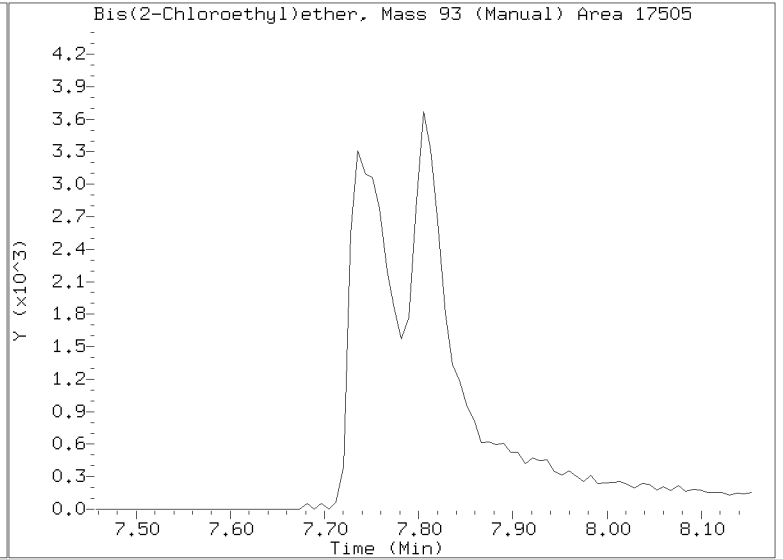
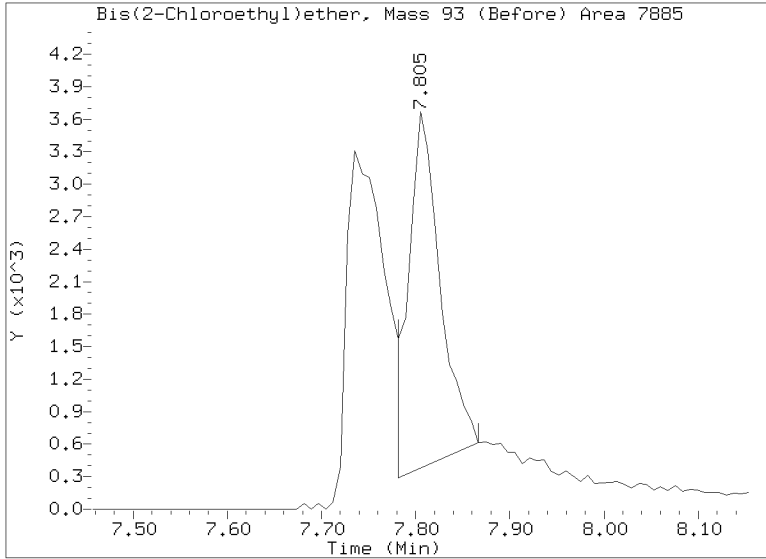
Quant Ion Manual Peak Adjustment Report

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Injection Date: 28-FEB-2023 15:16
Lab ID:SLB0374-CAL1 Client ID:
Report Date: 03/10/2023 13:21



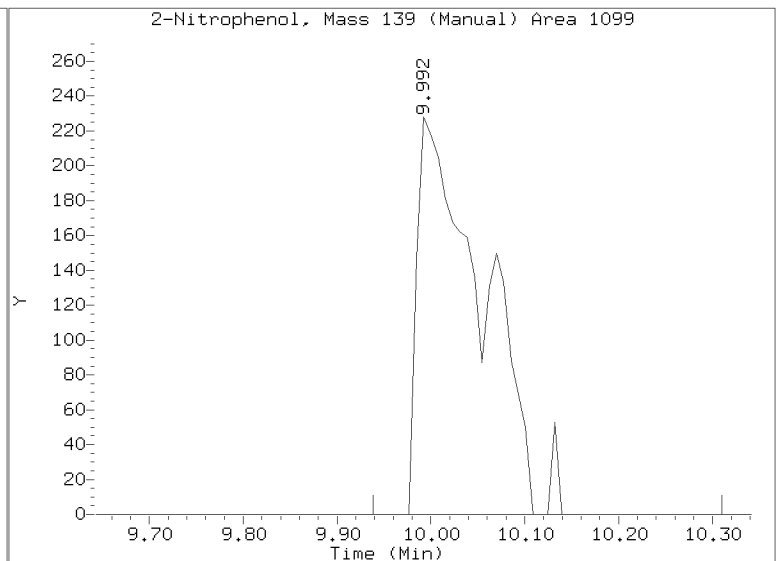
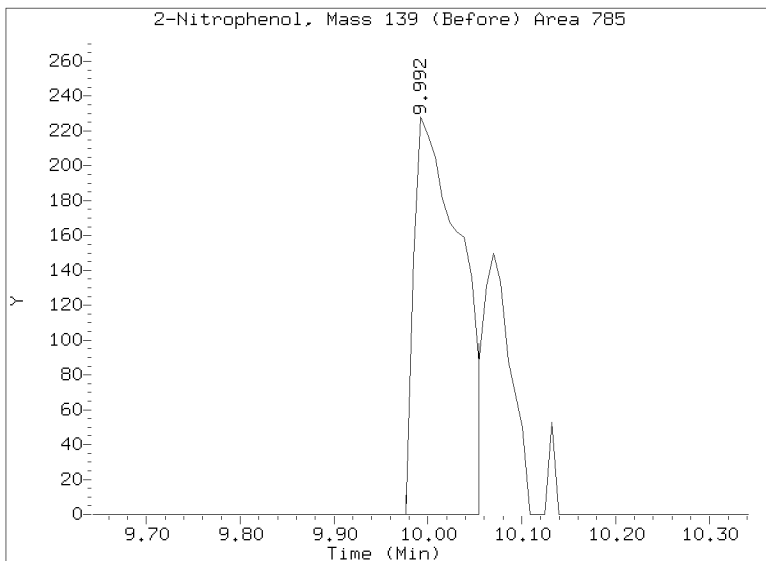
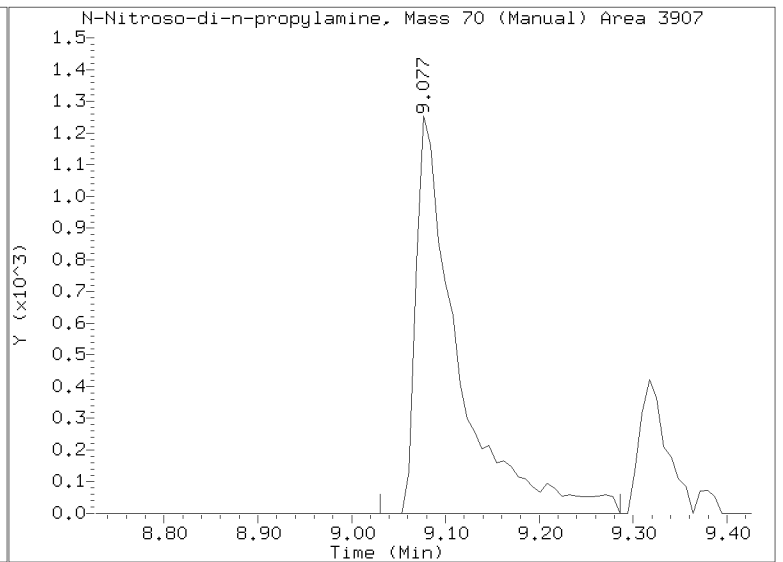
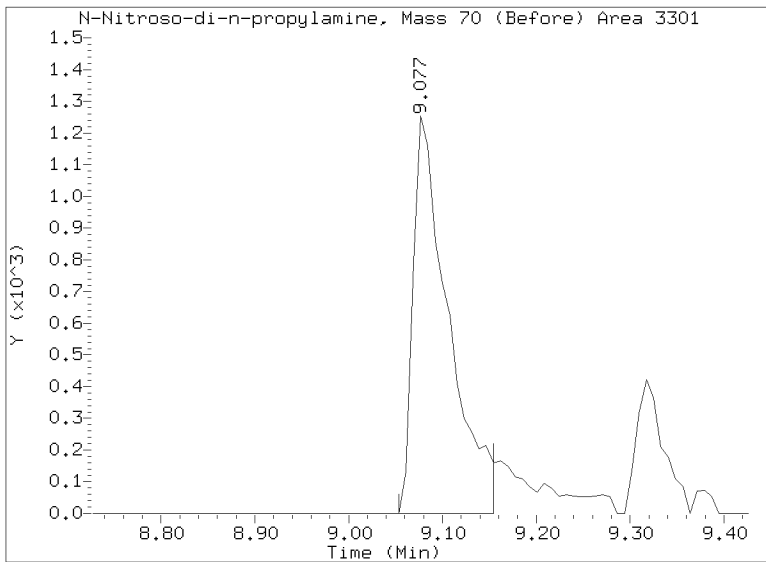
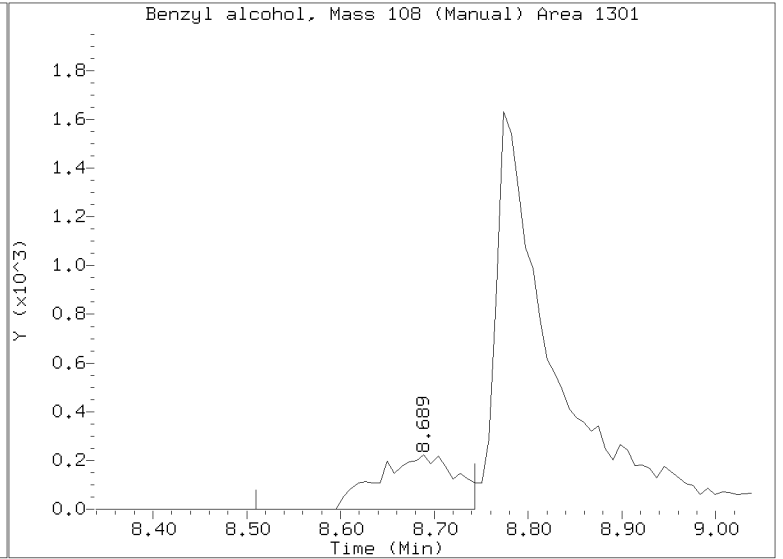
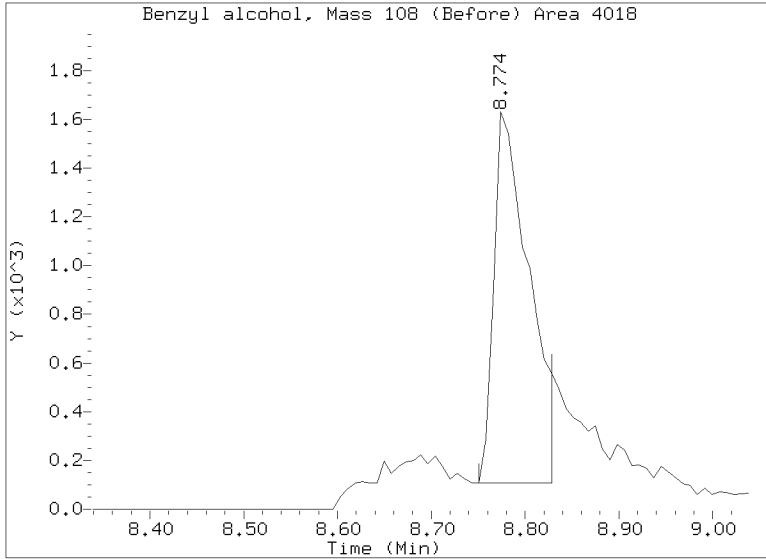
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Report Date: 03/10/2023 13:21



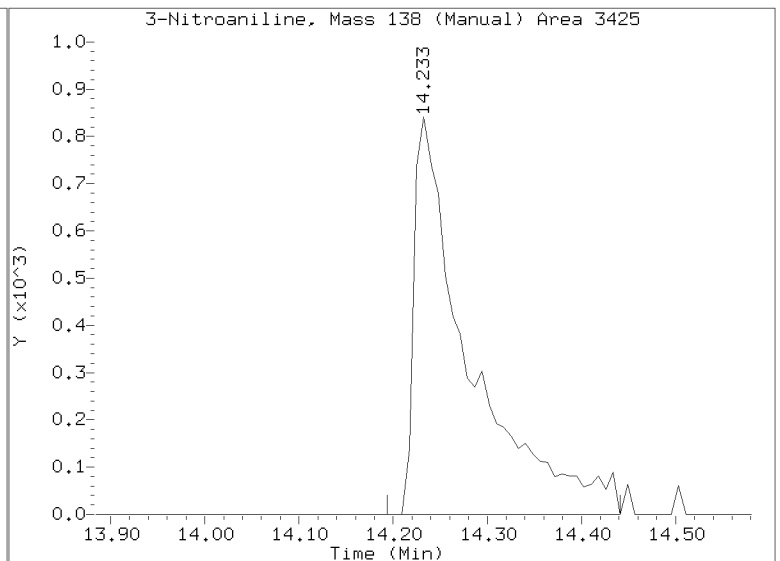
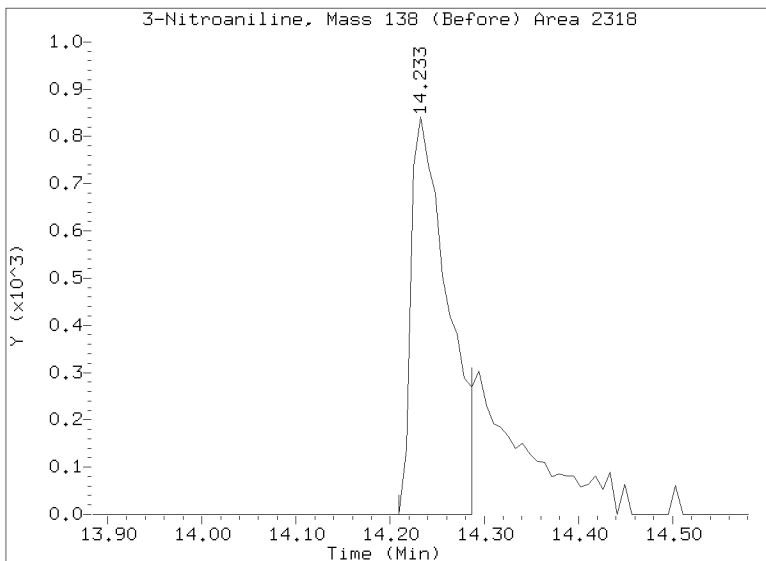
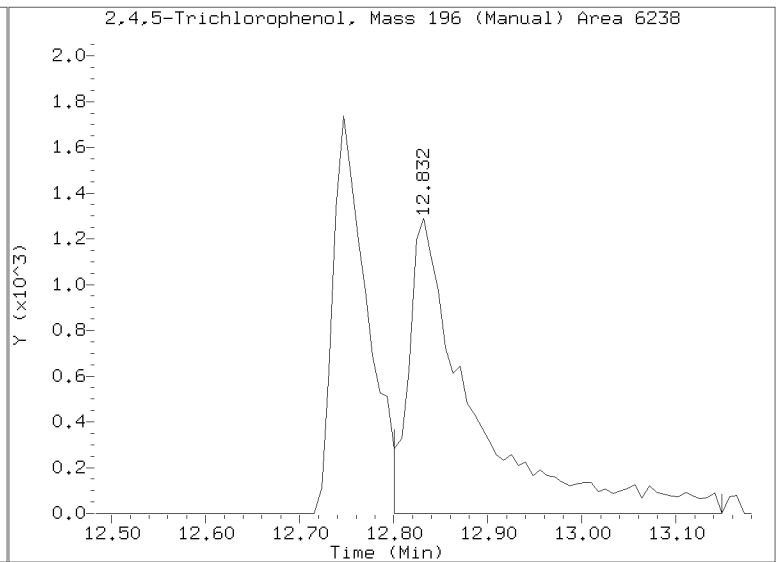
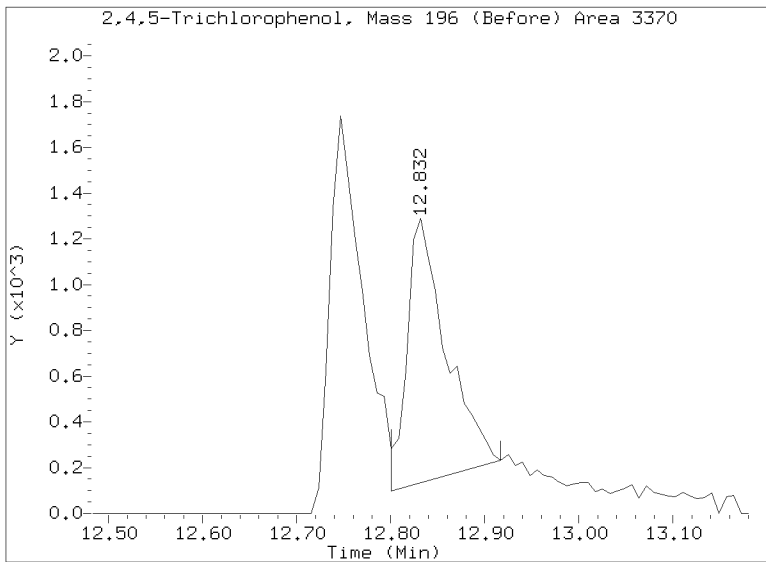
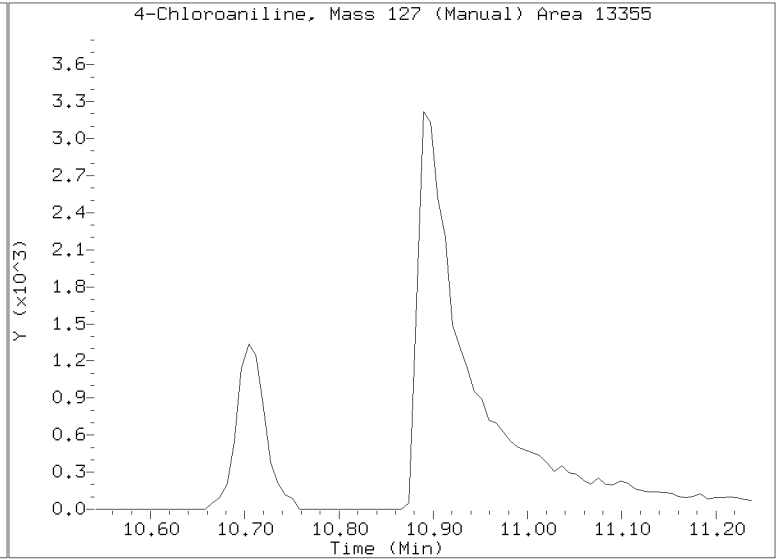
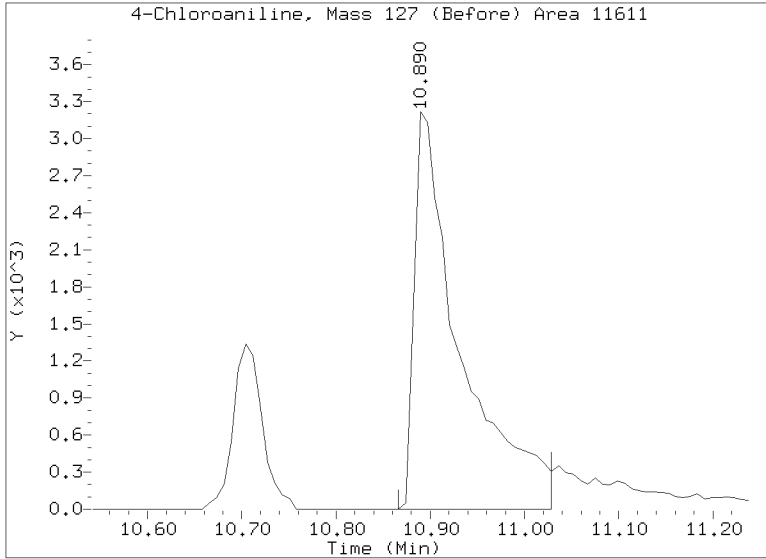
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Report Date: 03/10/2023 13:21



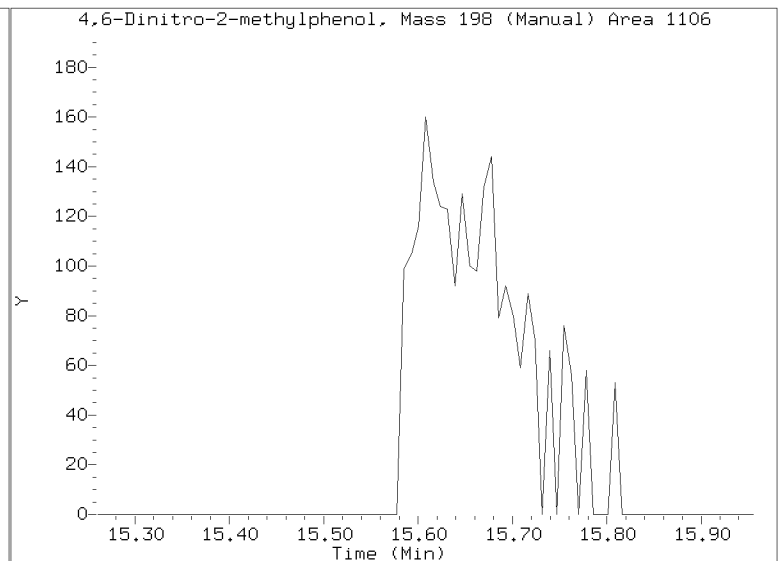
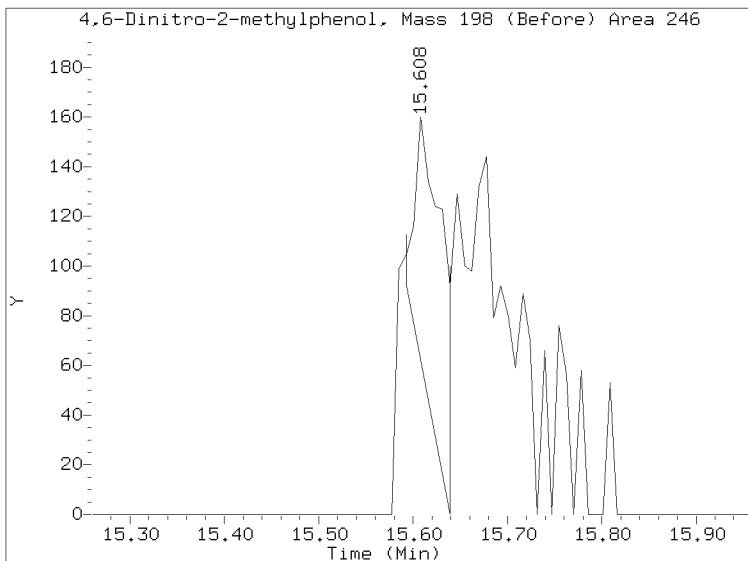
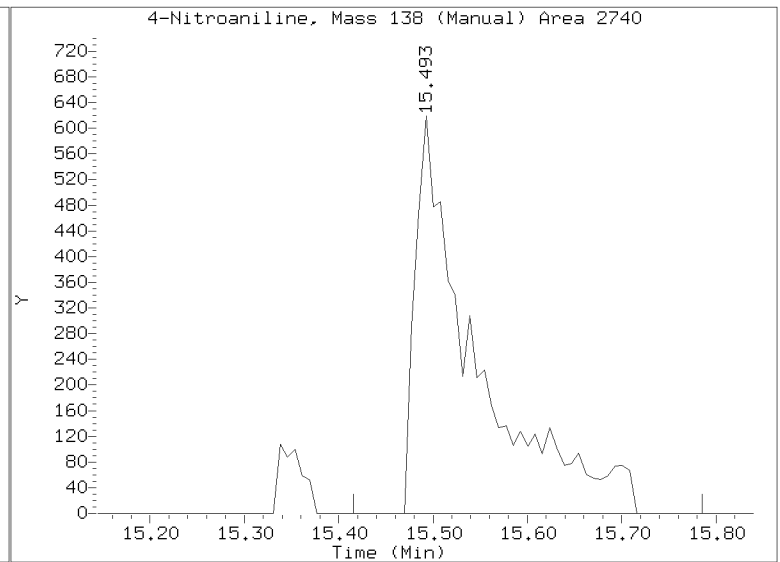
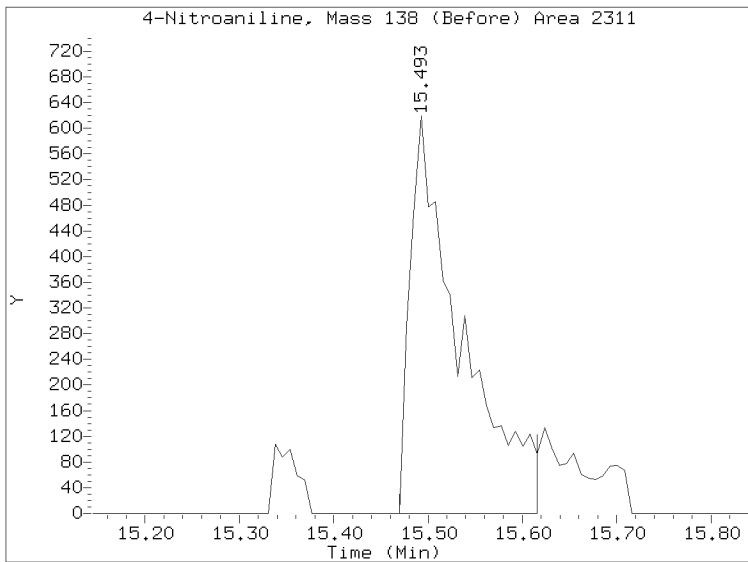
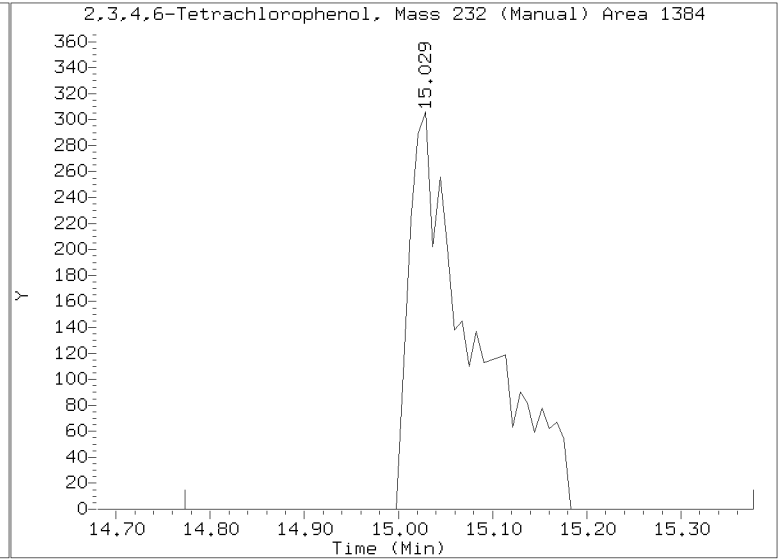
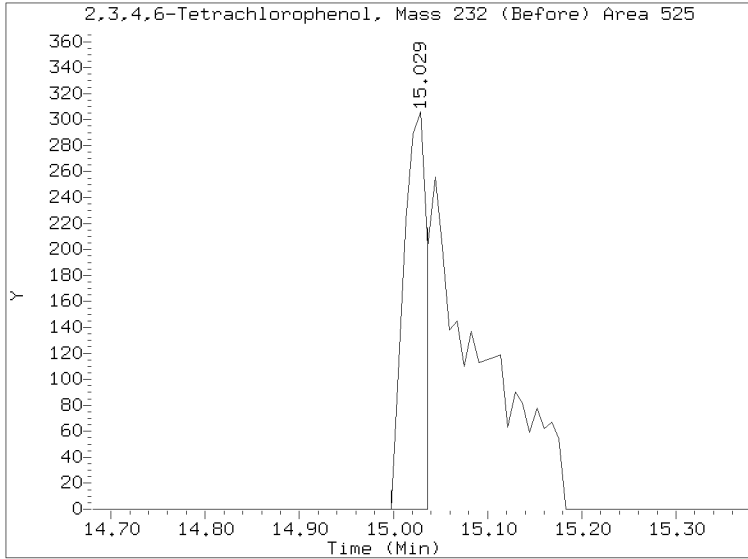
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Report Date: 03/10/2023 13:21



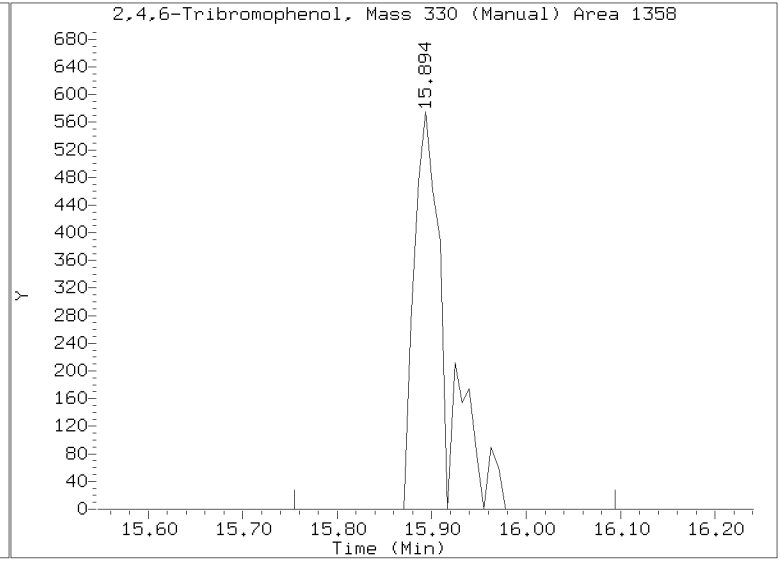
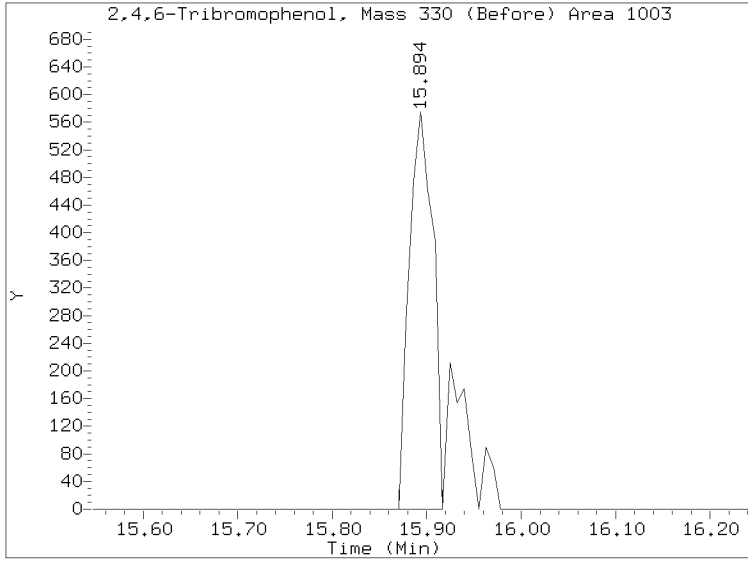
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Lab ID:SLB0374-CAL1 Client ID:
Report Date: 03/10/2023 13:21



Quant Ion Manual Peak Adjustment Report

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Injection Date: 28-FEB-2023 15:16
Lab ID:SLB0374-CAL1 Client ID:
Report Date: 03/10/2023 13:21



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Date: 28-FEB-2023 17:04

Client ID:

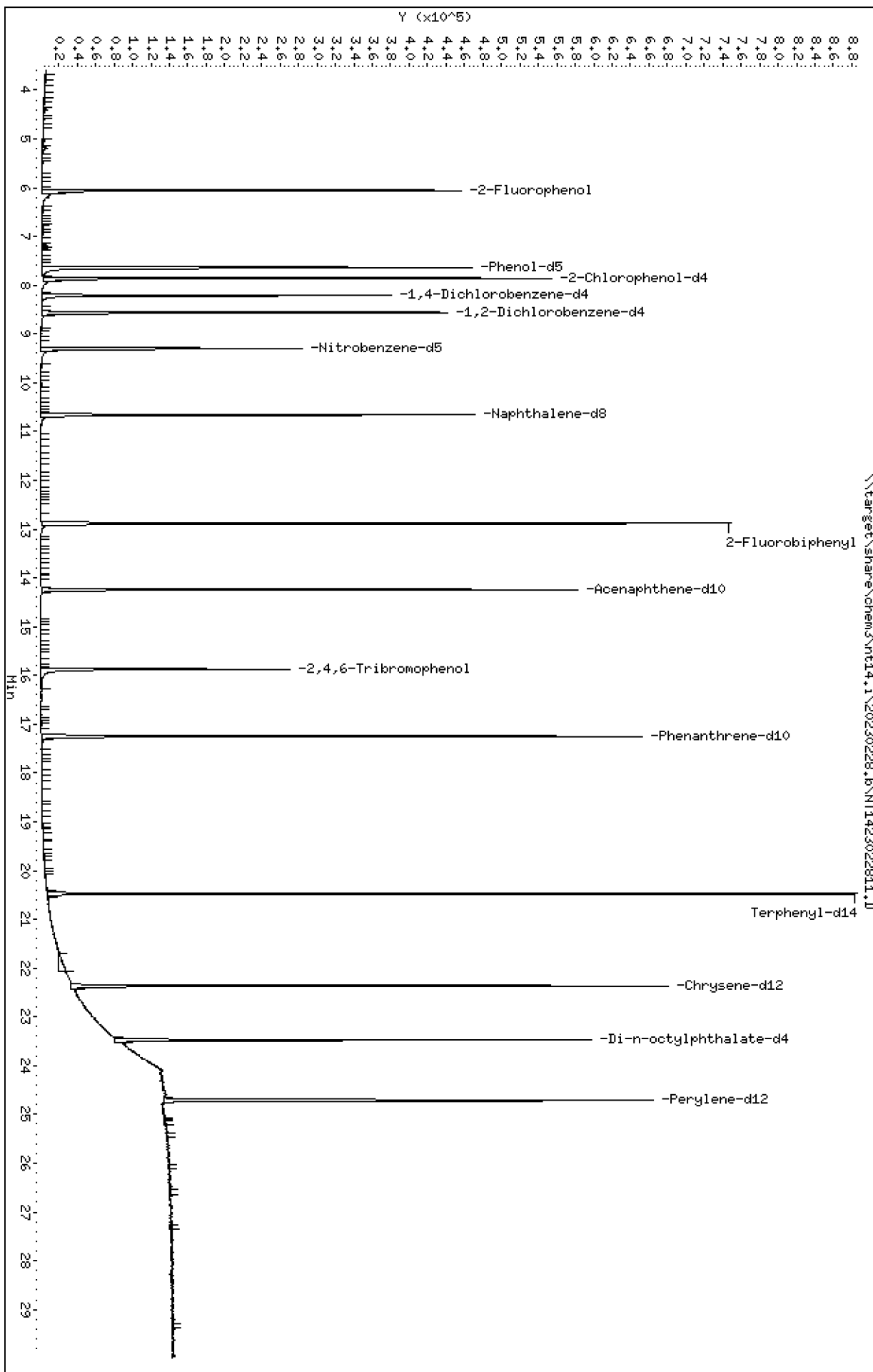
Sample Info: SLB0374-ICB1

Instrument: nt14,1

Page 1

Column phase: ZB-5msi

Operator: JGR
Column diameter: 0.25



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230228.b\NT1423022811.D
 Lab Smp Id: SLB0374-ICB1
 Inj Date : 28-FEB-2023 17:04 MS Autotune Date: 17-MAY-2011 01:22
 Operator : JGR Inst ID: nt14.i
 Smp Info : SLB0374-ICB1
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt14.i\20230228.b\ABN.m
 Meth Date : 10-Mar-2023 12:09 van Quant Type: ISTD
 Cal Date : 28-FEB-2023 15:16 Cal File: NT1423022808.D
 Als bottle: 11
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: ICAL.sub
 Target Version: 4.14
 Processing Host: VANS-201906

| Compounds | QUANT | SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|---------------------------------|-------|-----|------------------------|--------|---------|----------|----------------------|------------------|
| | | | | | | | ON-COLUMN (ug/mL) | FINAL (ug/mL) |
| \$ 1 2-Fluorophenol | 112 | | 6.058 | 6.128 | (0.738) | 235604 | 7.41589 | 7.416 |
| \$ 2 Phenol-d5 | 99 | | 7.635 | 7.665 | (0.930) | 327405 | 7.25846 | 7.258 |
| 3 Phenol | 94 | | Compound Not Detected. | | | | | |
| \$ 5 2-Chlorophenol-d4 | 132 | | 7.859 | 7.882 | (0.958) | 262843 | 6.85302 | 6.853 |
| 4 Bis(2-Chloroethyl)ether | 93 | | Compound Not Detected. | | | | | |
| 6 2-Chlorophenol | 128 | | Compound Not Detected. | | | | | |
| 7 1,3-Dichlorobenzene | 146 | | Compound Not Detected. | | | | | |
| * 8 1,4-Dichlorobenzene-d4 | 152 | | 8.207 | 8.207 | (1.000) | 117167 | 4.00000 | |
| 9 1,4-Dichlorobenzene | 146 | | Compound Not Detected. | | | | | |
| \$ 10 1,2-Dichlorobenzene-d4 | 152 | | 8.564 | 8.572 | (1.043) | 133861 | 4.63594 | 4.636 |
| 12 1,2-Dichlorobenzene | 146 | | Compound Not Detected. | | | | | |
| 11 Benzyl alcohol | 108 | | Compound Not Detected. | | | | | |
| 14 2,2'-oxybis(1-Chloropropane) | 121 | | Compound Not Detected. | | | | | |
| 13 2-Methylphenol | 108 | | Compound Not Detected. | | | | | |
| 17 Hexachloroethane | 117 | | Compound Not Detected. | | | | | |
| 16 N-Nitroso-di-n-propylamine | 70 | | Compound Not Detected. | | | | | |
| 15 4-Methylphenol | 108 | | Compound Not Detected. | | | | | |
| \$ 18 Nitrobenzene-d5 | 82 | | 9.301 | 9.317 | (0.873) | 188062 | 4.72328 | 4.723 |
| 19 Nitrobenzene | 77 | | Compound Not Detected. | | | | | |
| 20 Isophorone | 82 | | Compound Not Detected. | | | | | |
| 21 2-Nitrophenol | 139 | | Compound Not Detected. | | | | | |
| 22 2,4-Dimethylphenol | 107 | | Compound Not Detected. | | | | | |
| 23 Bis(2-Chloroethoxy)methane | 93 | | Compound Not Detected. | | | | | |
| 24 Benzoic acid | 105 | | Compound Not Detected. | | | | | |
| 25 2,4-Dichlorophenol | 162 | | Compound Not Detected. | | | | | |
| 26 1,2,4-Trichlorobenzene | 180 | | Compound Not Detected. | | | | | |
| * 27 Naphthalene-d8 | 136 | | 10.657 | 10.665 | (1.000) | 407027 | 4.00000 | |
| 28 Naphthalene | 128 | | Compound Not Detected. | | | | | |
| 29 4-Chloroaniline | 127 | | Compound Not Detected. | | | | | |
| 30 Hexachlorobutadiene | 225 | | Compound Not Detected. | | | | | |
| 31 4-Chloro-3-methylphenol | 107 | | Compound Not Detected. | | | | | |
| 32 2-Methylnaphthalene | 142 | | Compound Not Detected. | | | | | |
| 33 Hexachlorocyclopentadiene | 237 | | Compound Not Detected. | | | | | |

| Compounds | QUANT | SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|-----------------------------------|-------|-------|--------|--------|---------|----------|----------------------|------------------|
| | | | | | | | ON-COLUMN (ug/mL) | FINAL (ug/mL) |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| 34 2,4,6-Trichlorophenol | 196 | | | | | | | |
| 35 2,4,5-Trichlorophenol | 196 | | | | | | | |
| \$ 36 2-Fluorobiphenyl | 172 | | 12.885 | 12.893 | (0.905) | 436818 | 4.67914 | 4.679 |
| 37 2-Chloronaphthalene | 162 | | | | | | | |
| 38 2-Nitroaniline | 65 | | | | | | | |
| 39 Dimethylphthalate | 163 | | | | | | | |
| 40 Acenaphthylene | 152 | | | | | | | |
| 41 2,6-Dinitrotoluene | 165 | | | | | | | |
| * 42 Acenaphthene-d10 | 164 | | 14.240 | 14.247 | (1.000) | 239853 | 4.00000 | |
| 43 3-Nitroaniline | 138 | | | | | | | |
| 44 Acenaphthene | 153 | | | | | | | |
| 45 2,4-Dinitrophenol | 184 | | | | | | | |
| 46 Dibenzofuran | 168 | | | | | | | |
| 47 4-Nitrophenol | 109 | | | | | | | |
| 48 2,4-Dinitrotoluene | 165 | | | | | | | |
| 50 Diethylphthalate | 149 | | | | | | | |
| 49 Fluorene | 166 | | | | | | | |
| 51 4-Chlorophenyl-phenylether | 204 | | | | | | | |
| 52 4-Nitroaniline | 138 | | | | | | | |
| 53 4,6-Dinitro-2-methylphenol | 198 | | | | | | | |
| 54 N-Nitrosodiphenylamine | 169 | | | | | | | |
| \$ 55 2,4,6-Tribromophenol | 330 | | 15.878 | 15.893 | (1.115) | 59409 | 4.52630 | 4.526 |
| 56 4-Bromophenyl-phenylether | 248 | | | | | | | |
| 57 Hexachlorobenzene | 284 | | | | | | | |
| 58 Pentachlorophenol | 266 | | | | | | | |
| * 59 Phenanthrene-d10 | 188 | | 17.245 | 17.245 | (1.000) | 473405 | 4.00000 | |
| 60 Phenanthrene | 178 | | | | | | | |
| 61 Anthracene | 178 | | | | | | | |
| 62 Carbazole | 167 | | | | | | | |
| 63 Di-n-butylphthalate | 149 | | | | | | | |
| 64 Fluoranthene | 202 | | | | | | | |
| 65 Pyrene | 202 | | | | | | | |
| \$ 66 Terphenyl-d14 | 244 | | 20.479 | 20.480 | (0.916) | 553028 | 4.93009 | 4.930 |
| 67 Butylbenzylphthalate | 149 | | | | | | | |
| 68 Benzo(a)anthracene | 228 | | | | | | | |
| * 69 Chrysene-d12 | 240 | | 22.361 | 22.361 | (1.000) | 364221 | 4.00000 | |
| 70 3,3'-Dichlorobenzidine | 252 | | | | | | | |
| 71 Chrysene | 228 | | | | | | | |
| 72 bis(2-Ethylhexyl)phthalate | 149 | | | | | | | |
| * 134 Di-n-octylphthalate-d4 | 153 | | 23.476 | 23.476 | (1.000) | 366453 | 4.00000 | |
| 73 Di-n-octylphthalate | 149 | | | | | | | |
| 74 Benzo(b)fluoranthene | 252 | | | | | | | |
| 75 Benzo(k)fluoranthene | 252 | | | | | | | |
| 76 Benzo(a)pyrene | 252 | | | | | | | |
| * 77 Perylene-d12 | 264 | | 24.707 | 24.715 | (1.000) | 358535 | 4.00000 | |
| 78 Indeno(1,2,3-cd)pyrene | 276 | | | | | | | |
| 79 Dibenzo(a,h)anthracene | 278 | | | | | | | |
| 80 Benzo(g,h,i)perylene | 276 | | | | | | | |
| 90 N-Nitrosodimethylamine | 74 | | | | | | | |
| 91 Aniline | 93 | | | | | | | |
| 93 Benzidine | 184 | | | | | | | |
| 103 Pyridine | 79 | | | | | | | |
| 105 1-methylnaphthalene | 142 | | | | | | | |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77 | | | | | | | |

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

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 28-FEB-2023
 Lab File ID: NT1423022811.D Calibration Time: 12:51
 Lab Smp Id: SLB0374-ICB1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: JGR
 Method File: \\target\share\chem3\nt14.i\20230228.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|--------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 114351 | 57176 | 228702 | 117167 | 2.46 |
| 27 Naphthalene-d8 | 408655 | 204328 | 817310 | 407027 | -0.40 |
| 42 Acenaphthene-d10 | 254000 | 127000 | 508000 | 239853 | -5.57 |
| 59 Phenanthrene-d10 | 490626 | 245313 | 981252 | 473405 | -3.51 |
| 69 Chrysene-d12 | 390400 | 195200 | 780800 | 364221 | -6.71 |
| 134 Di-n-octylphthala | 500829 | 250415 | 1001658 | 366453 | -26.83 |
| 77 Perylene-d12 | 375675 | 187838 | 751350 | 358535 | -4.56 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 8.21 | 7.71 | 8.71 | 8.21 | -0.09 |
| 27 Naphthalene-d8 | 10.67 | 10.17 | 11.17 | 10.66 | -0.07 |
| 42 Acenaphthene-d10 | 14.25 | 13.75 | 14.75 | 14.24 | -0.05 |
| 59 Phenanthrene-d10 | 17.25 | 16.75 | 17.75 | 17.25 | -0.04 |
| 69 Chrysene-d12 | 22.38 | 21.88 | 22.88 | 22.36 | -0.07 |
| 134 Di-n-octylphthala | 23.48 | 22.98 | 23.98 | 23.48 | -0.03 |
| 77 Perylene-d12 | 24.72 | 24.22 | 25.22 | 24.71 | -0.06 |

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

REVIEW SUMMARY FOR FILE - NT1423022811.D

Lab ID: SLB0374-ICB1
nt14.i, ABN.m, 28-FEB-2023 17:04

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT | CCV RRT | DELTA | COMPOUND |
|-------|---------|---------|----------------|
| 0.738 | 0.747 | -0.0085 | 2-Fluorophenol |

RRT check based on Ccal File: NT1423022808.D

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

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

Data File: \\target\share\chem3\nt14,1\20230228,16\NT1423022812.D

Date: 28-FEB-2023 17:41

Client ID:

Sample Info: SLB0374-SCV1

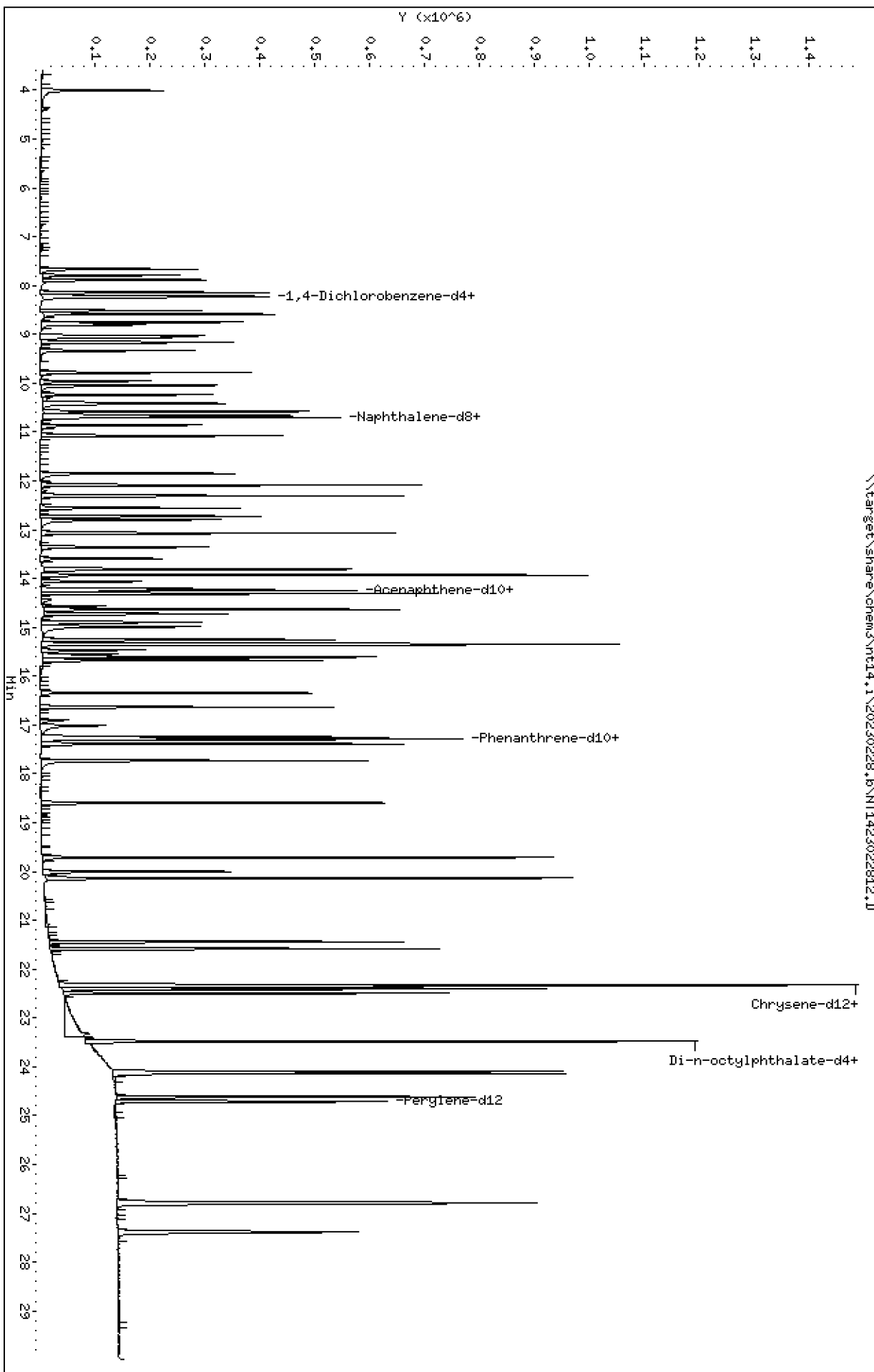
Column phase: ZB-5msi

Instrument: nt14,1

Operator: JGR

Column diameter: 0.25

\\target\share\chem3\nt14,1\20230228,16\NT1423022812.D



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

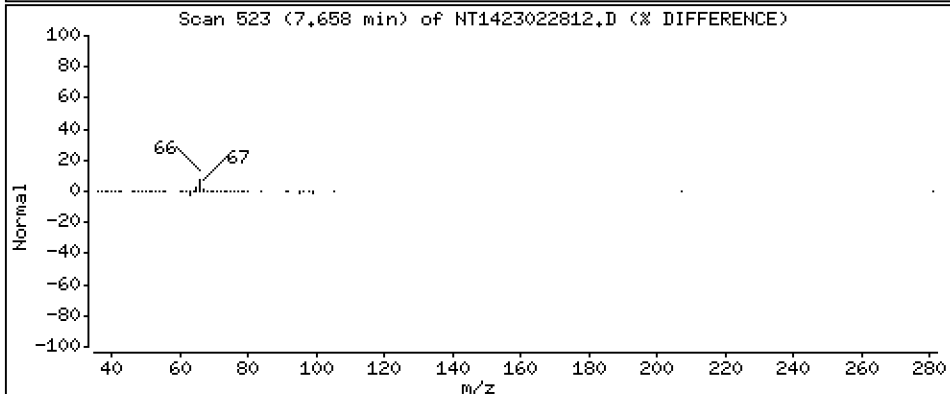
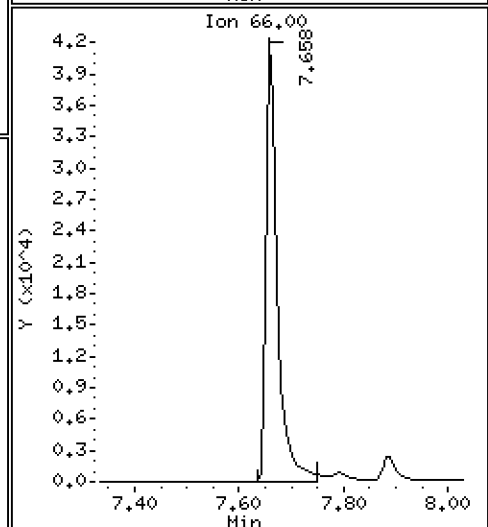
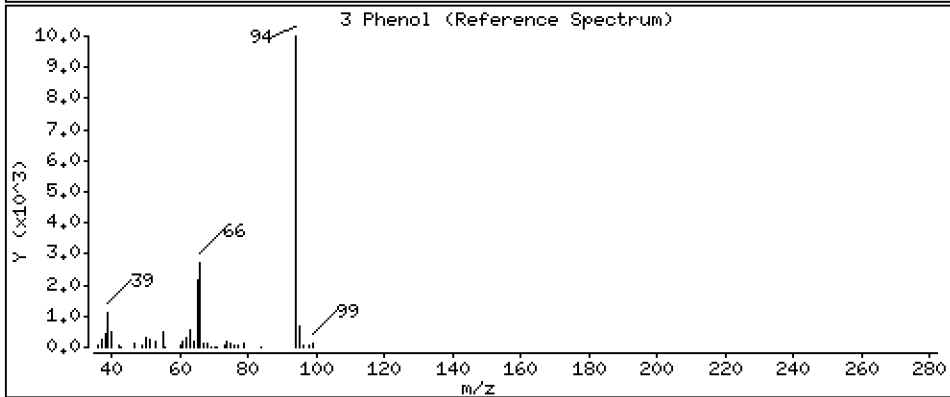
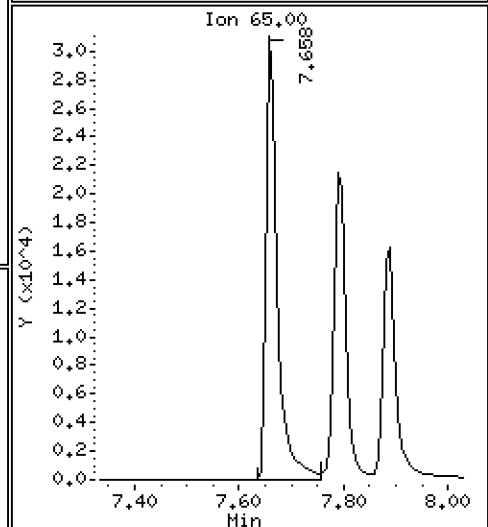
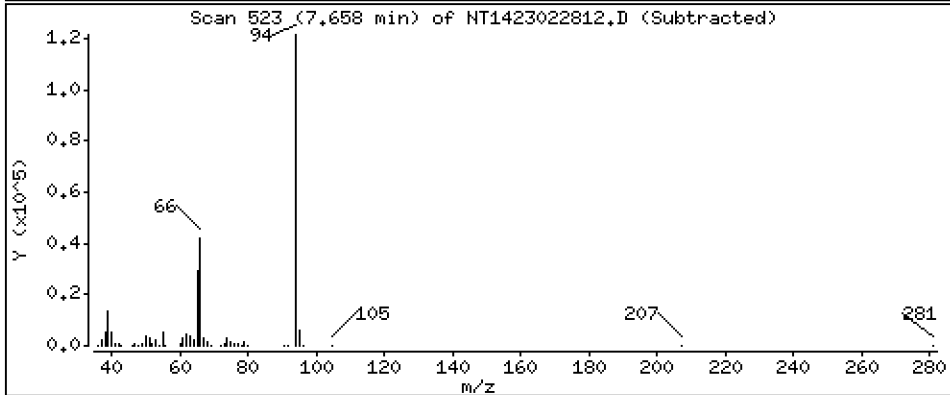
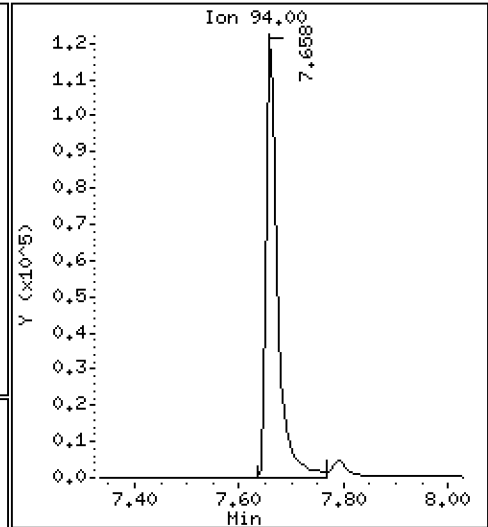
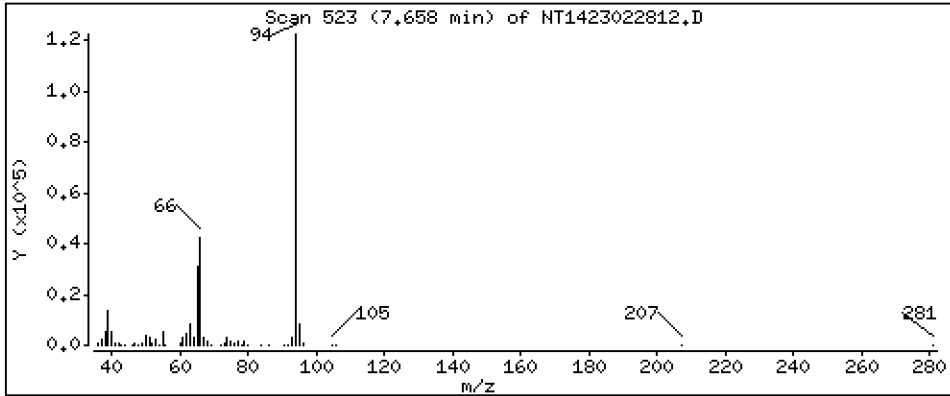
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 3,935 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

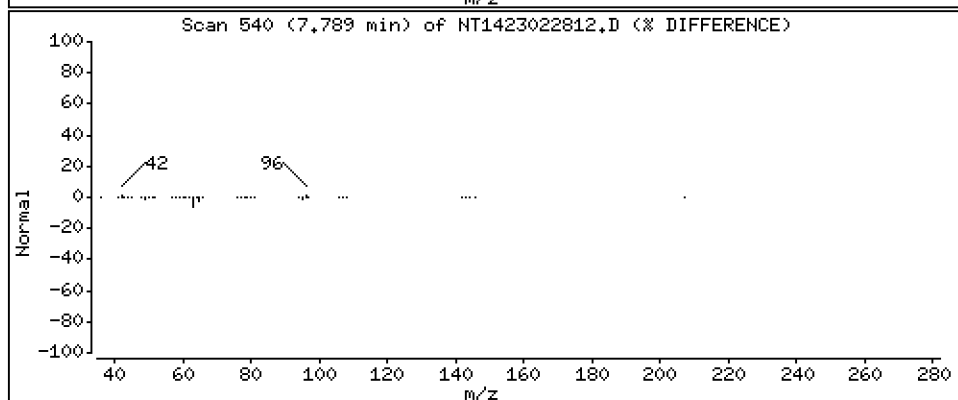
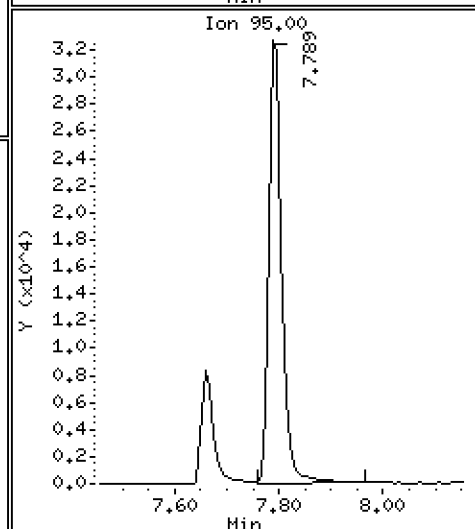
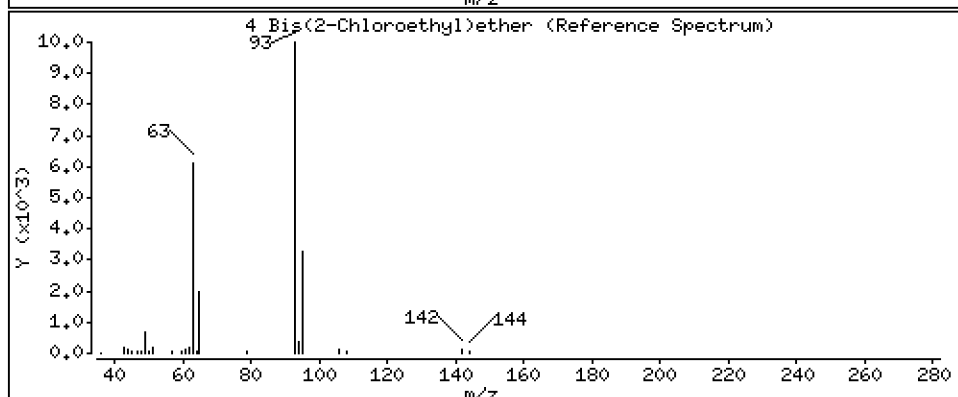
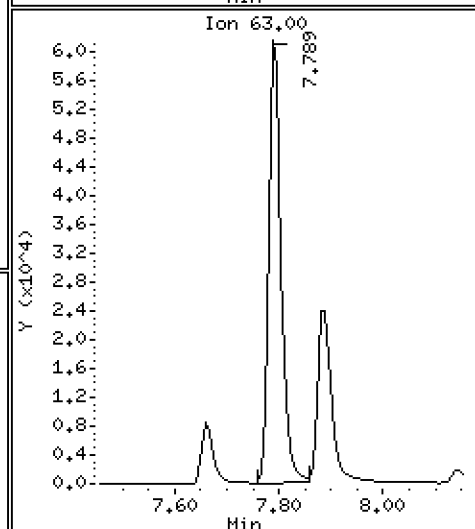
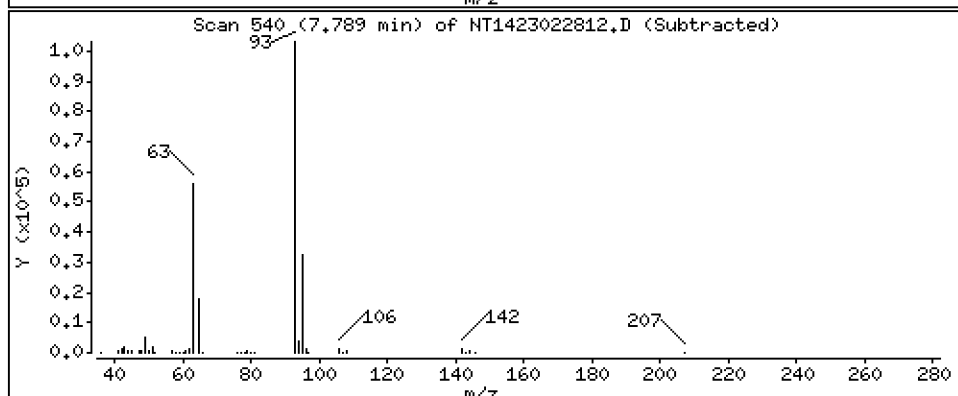
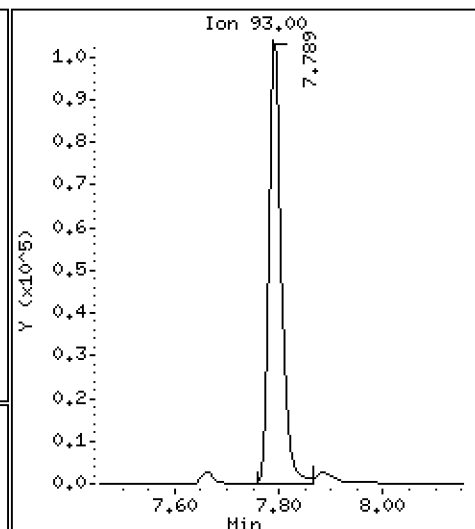
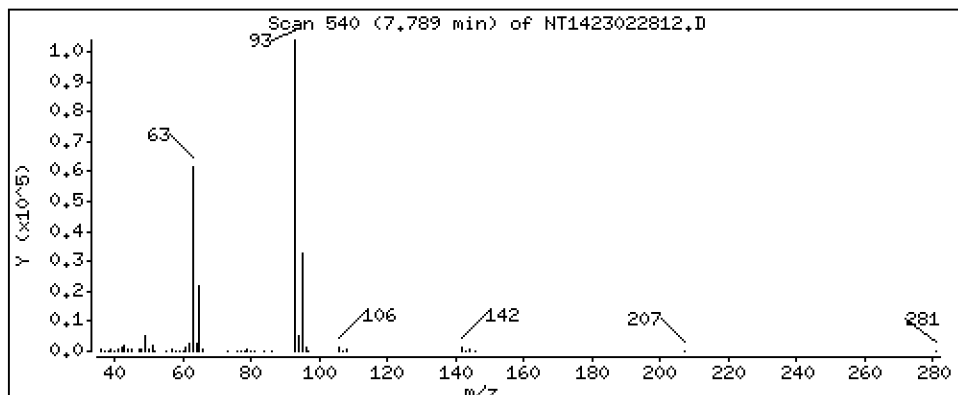
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

4 Bis(2-Chloroethyl)ether

Concentration: 5.224 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

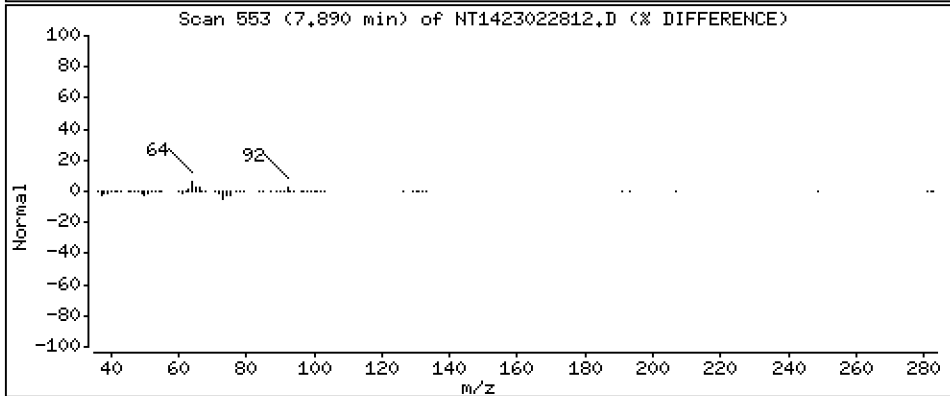
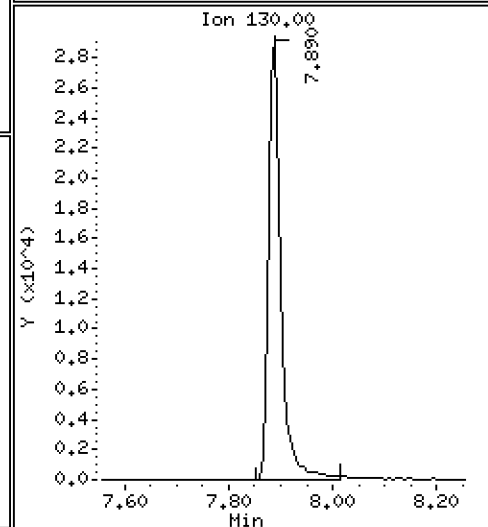
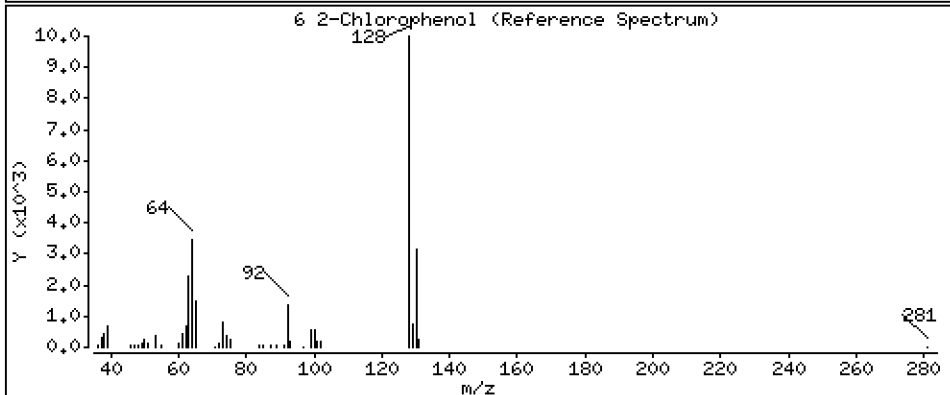
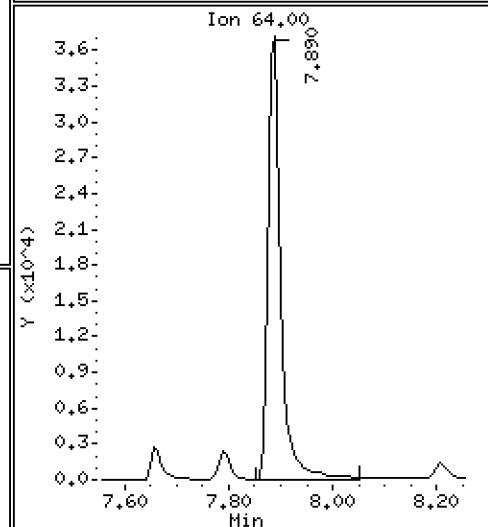
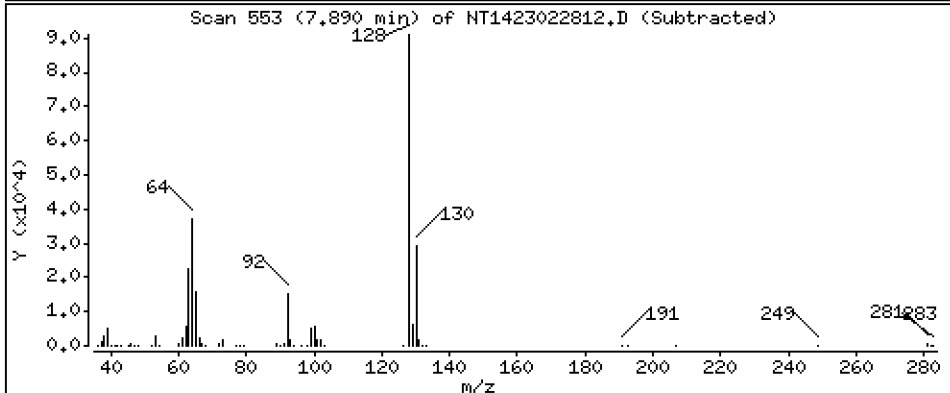
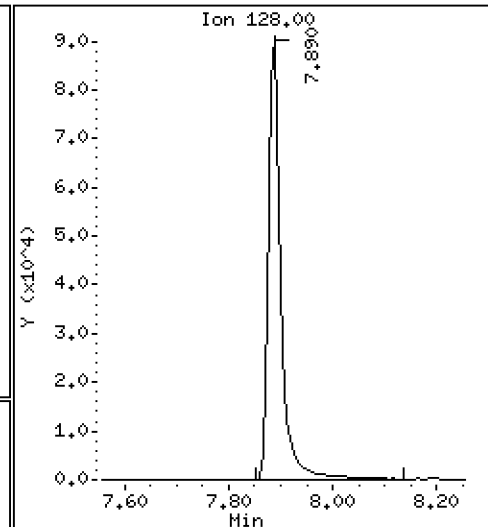
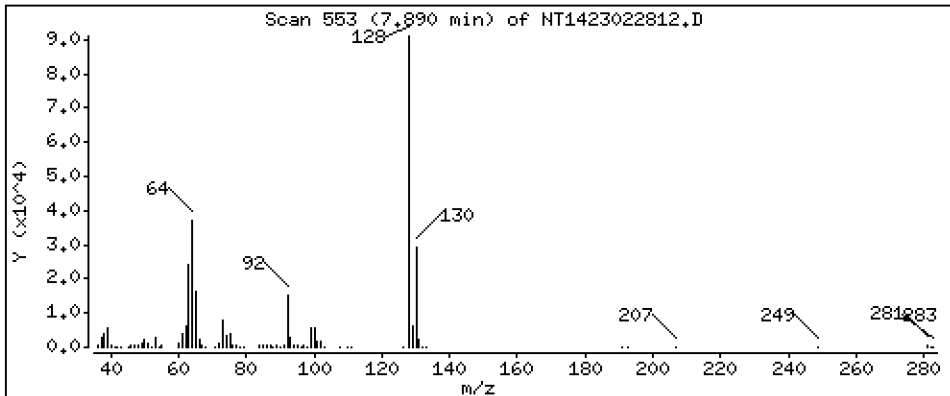
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 4,632 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

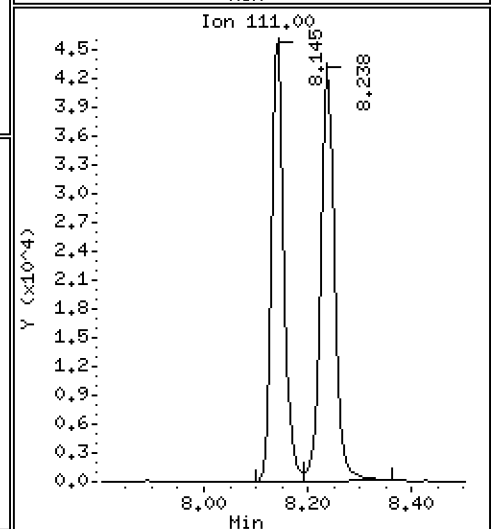
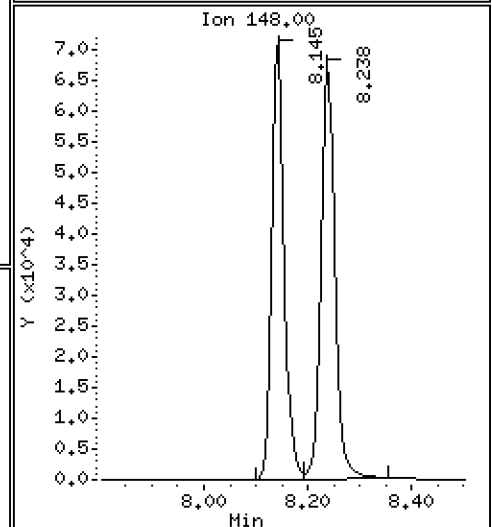
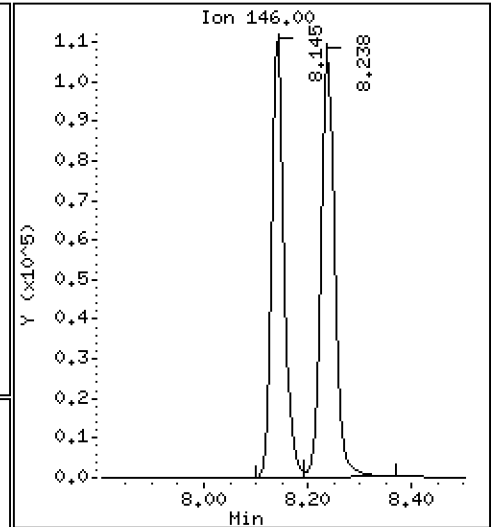
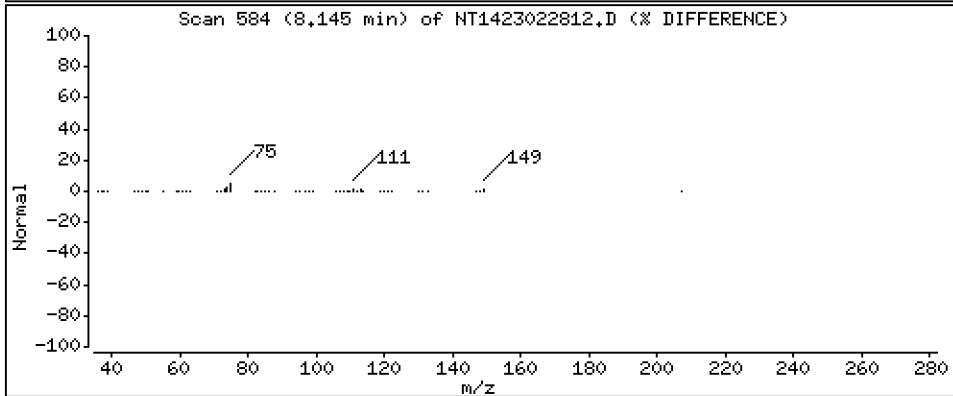
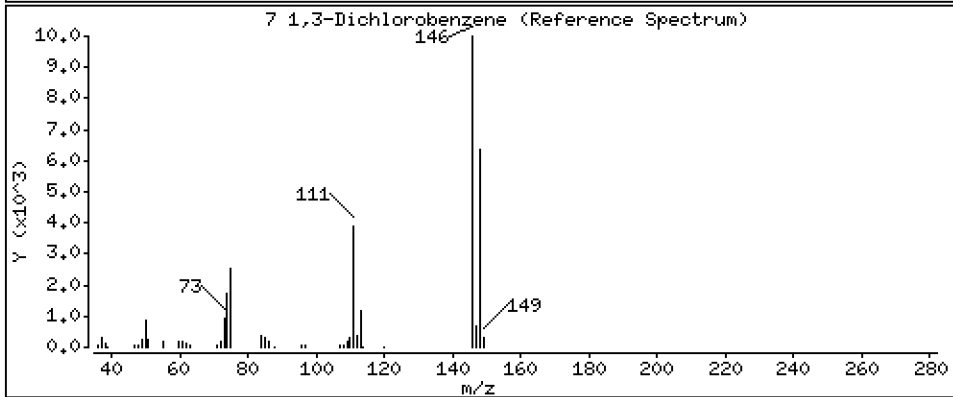
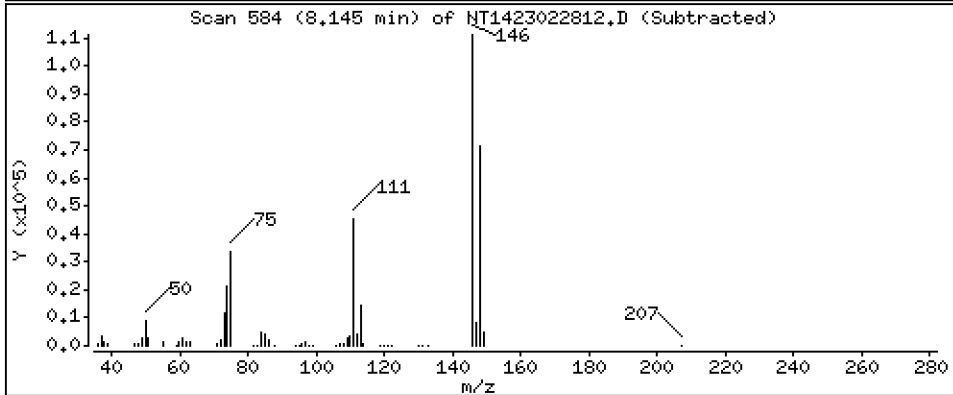
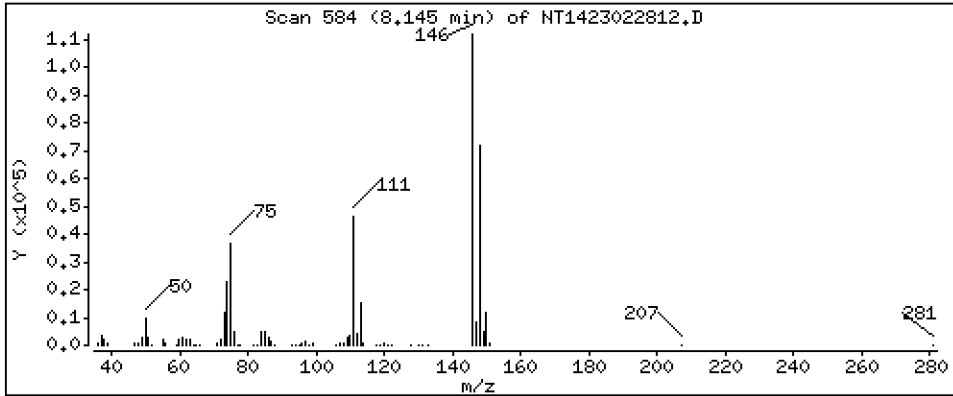
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

7 1,3-Dichlorobenzene

Concentration: 4,795 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

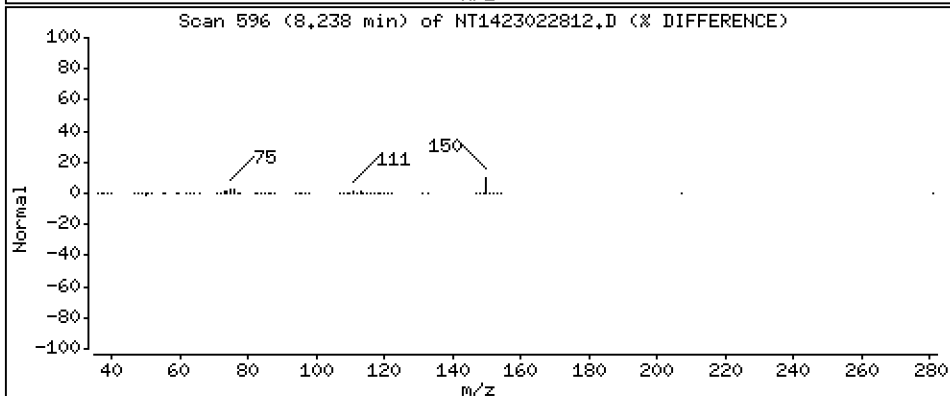
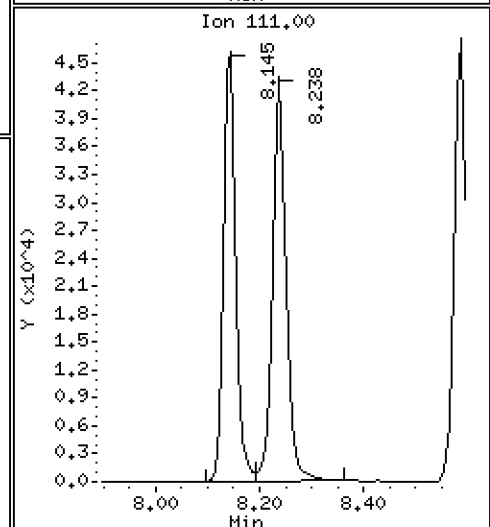
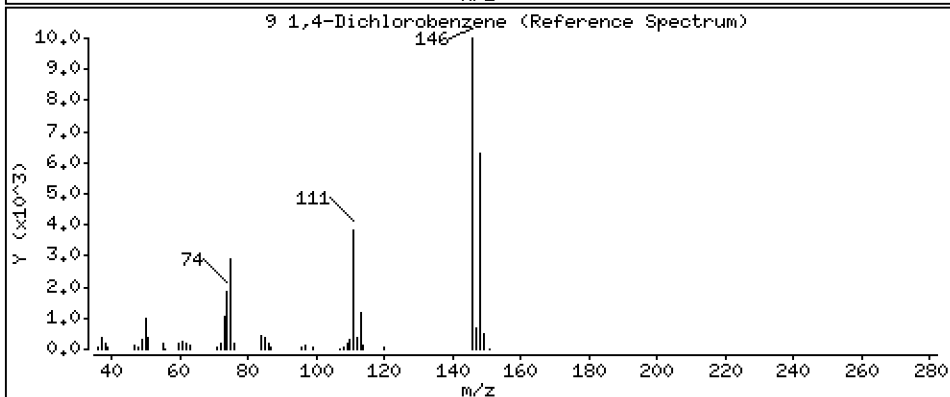
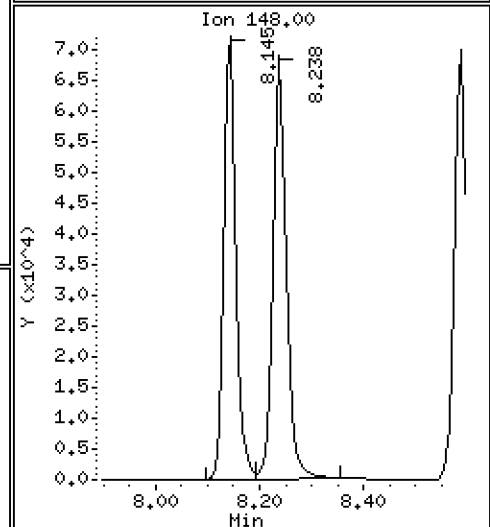
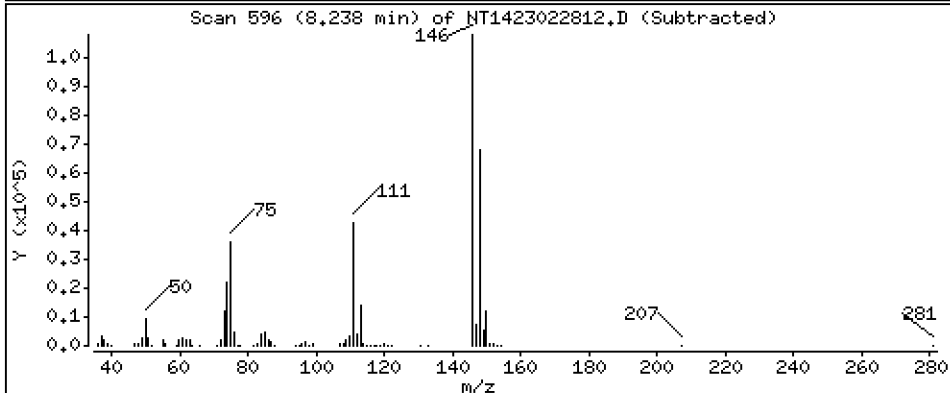
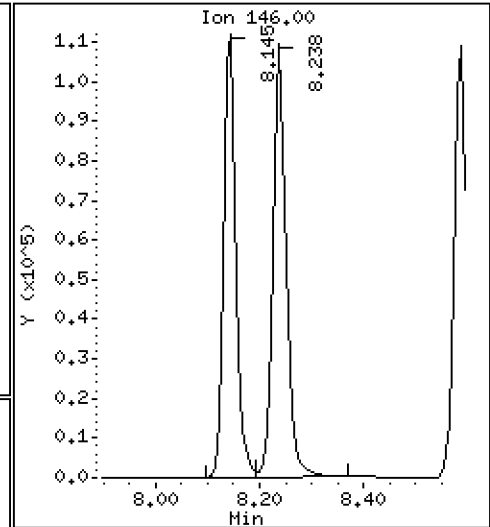
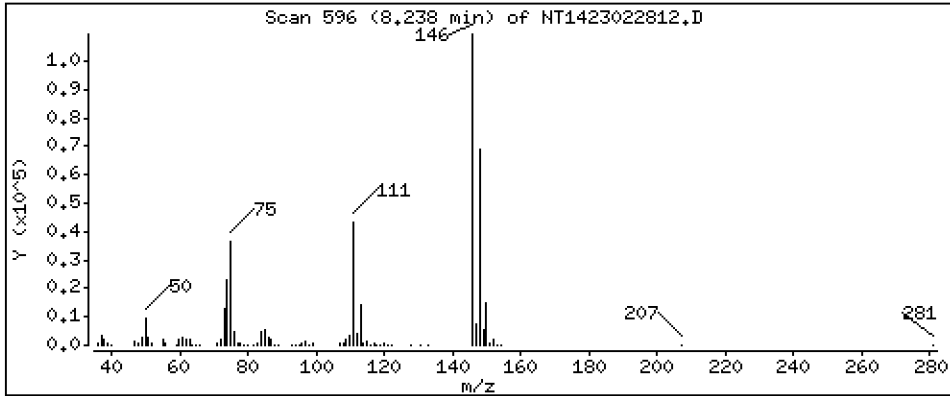
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 4,800 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

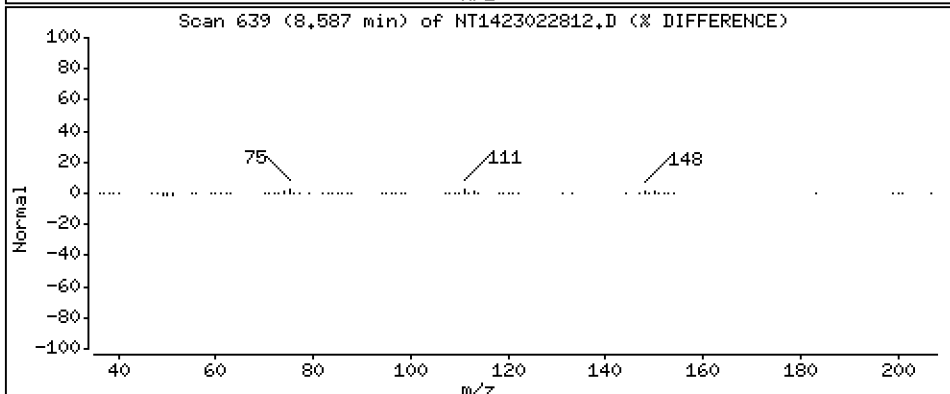
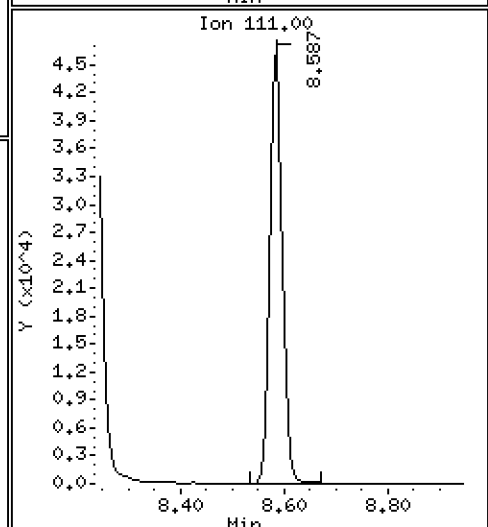
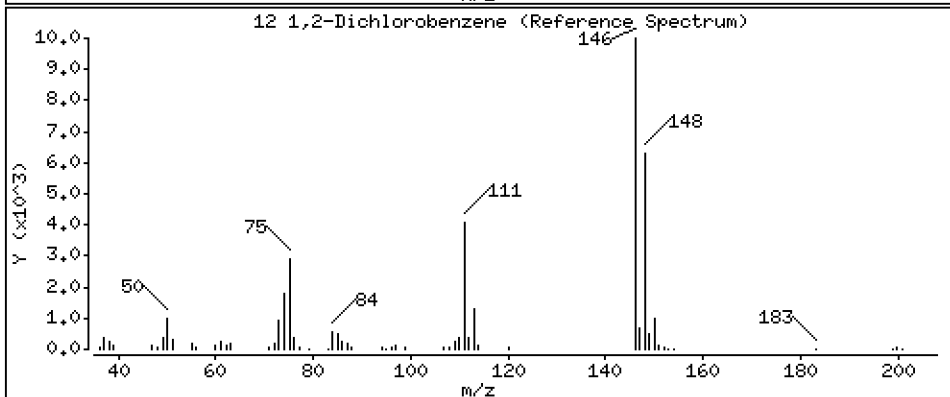
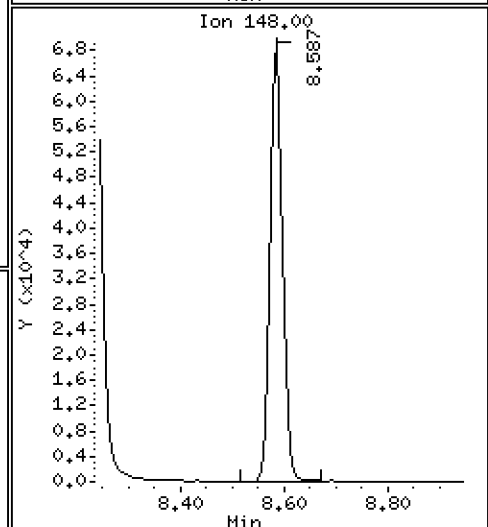
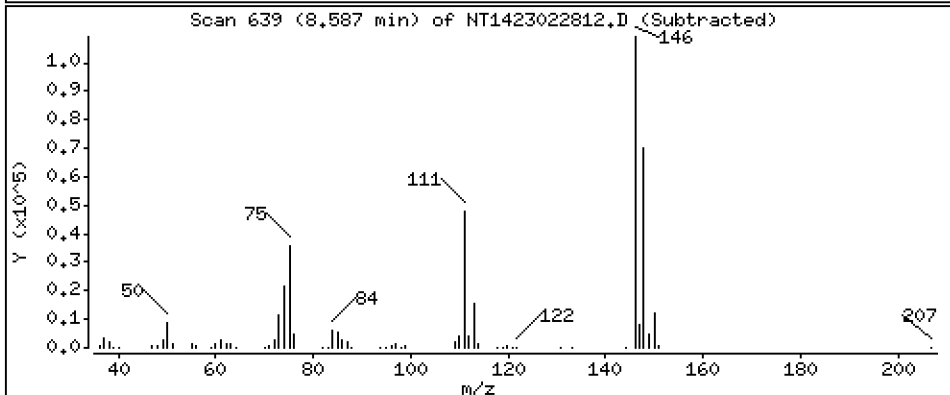
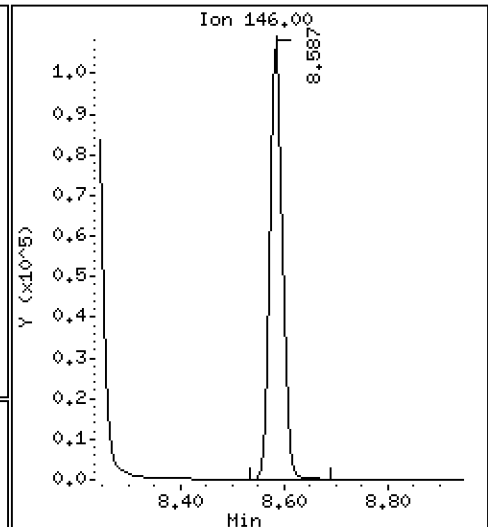
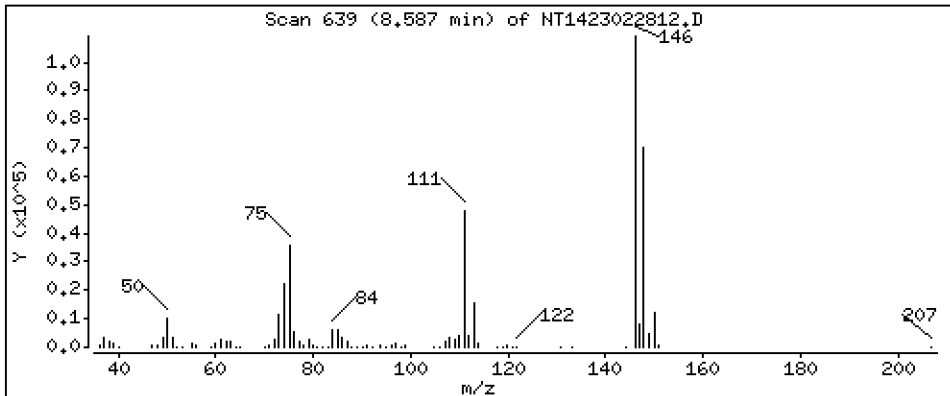
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

12 1,2-Dichlorobenzene

Concentration: 4.807 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

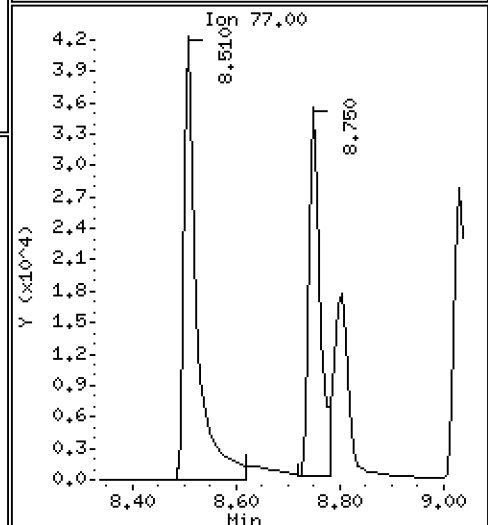
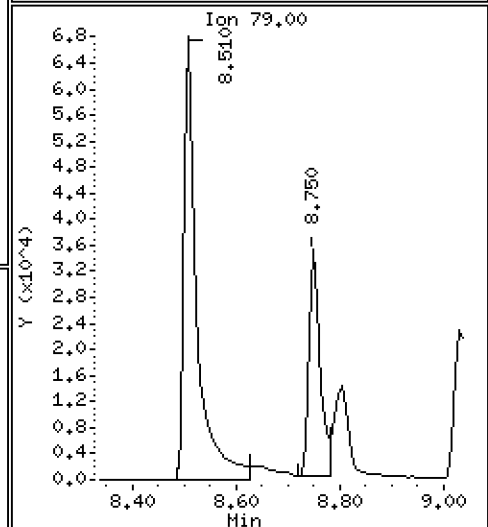
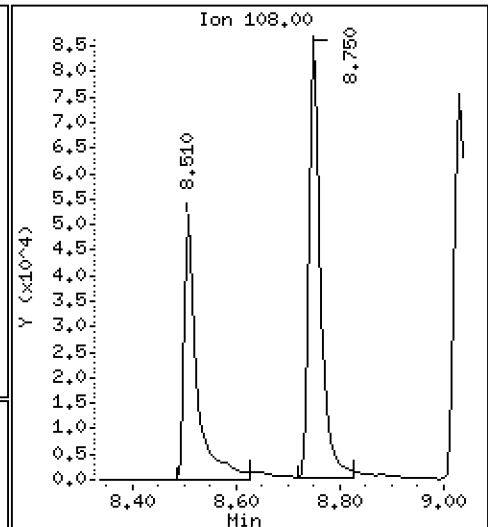
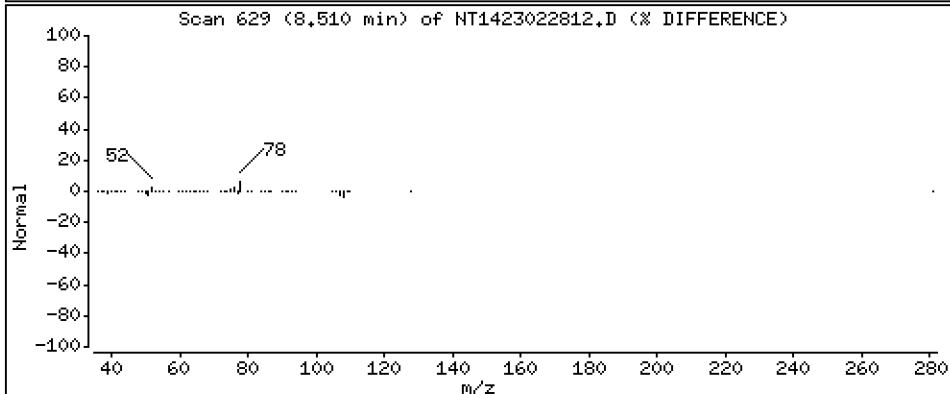
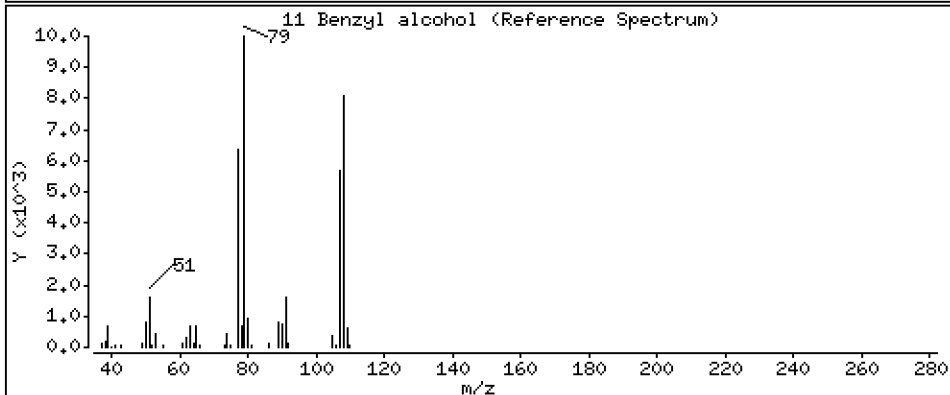
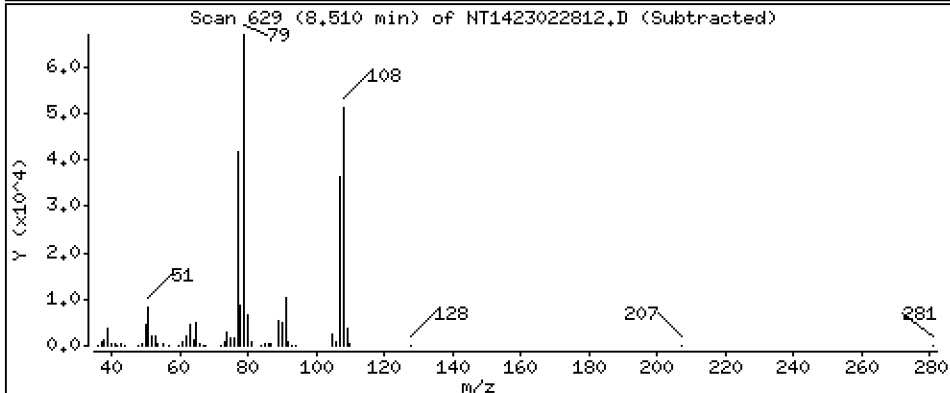
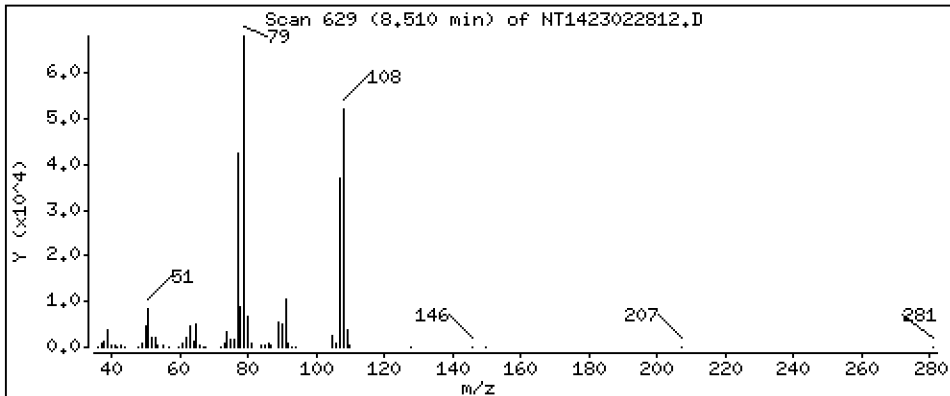
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

11 Benzyl alcohol

Concentration: 4,304 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

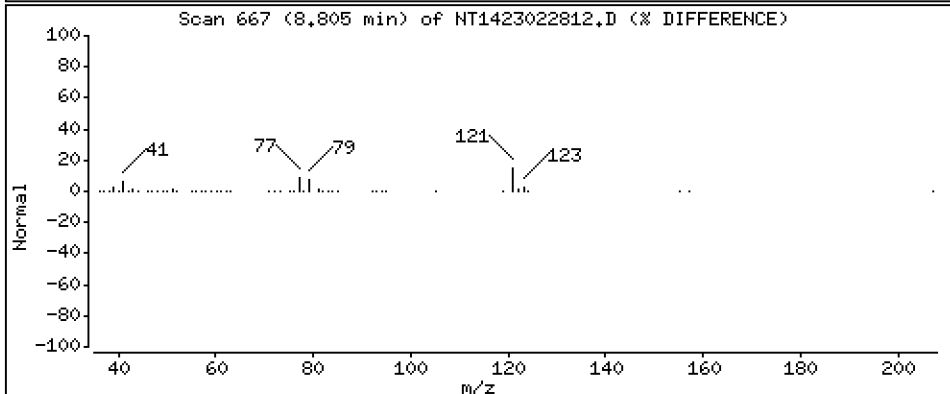
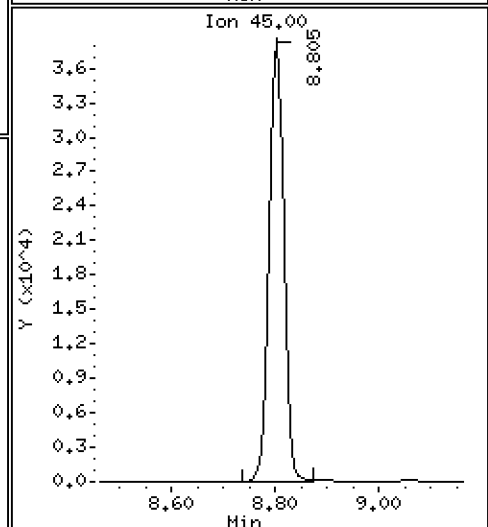
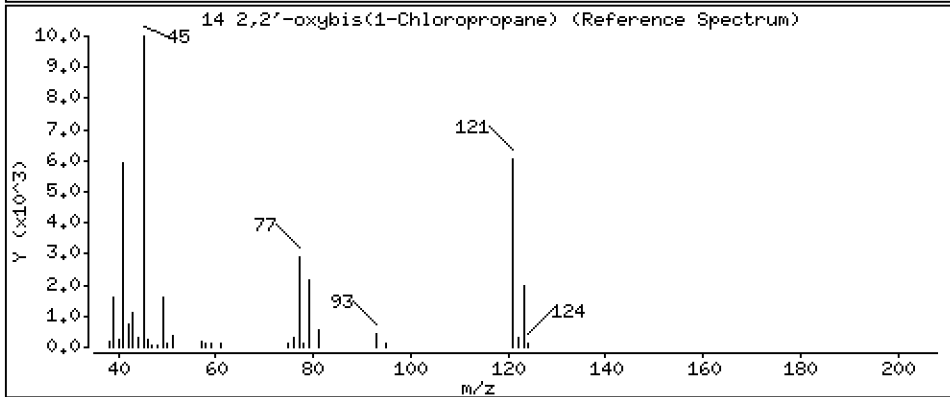
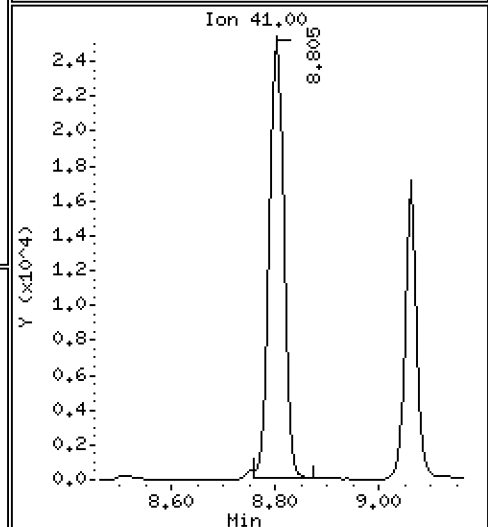
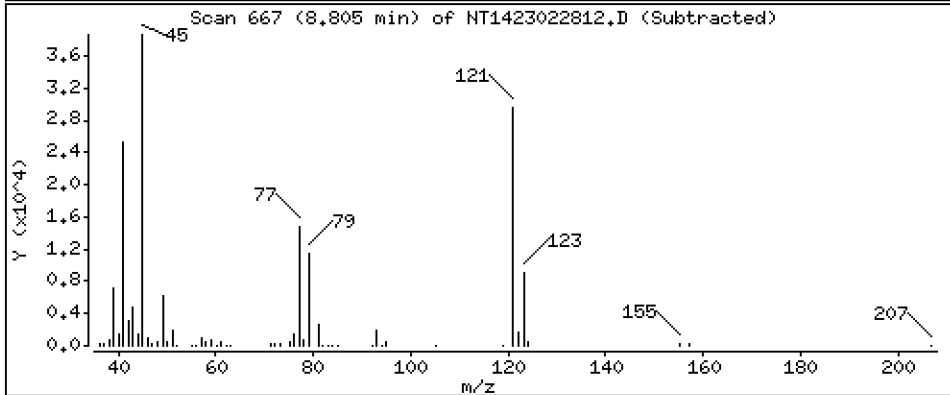
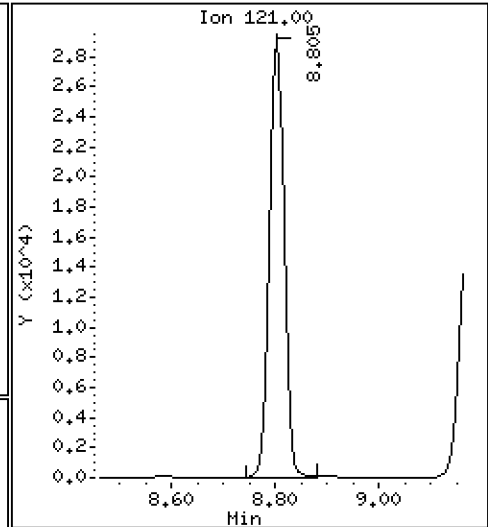
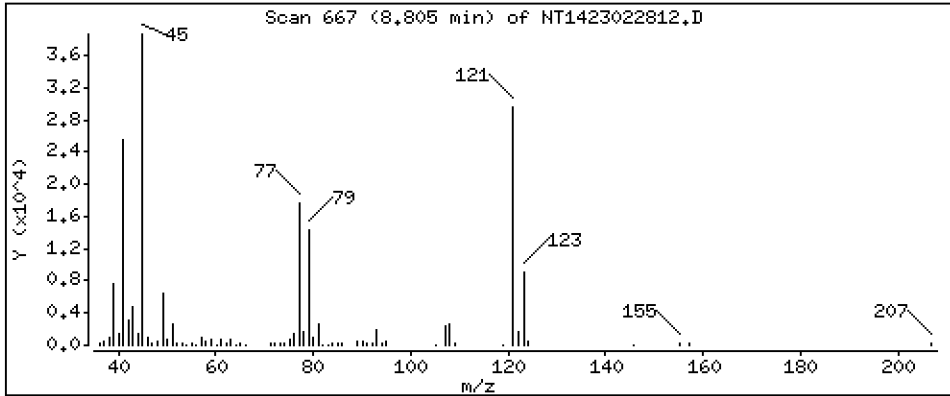
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 5,510 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

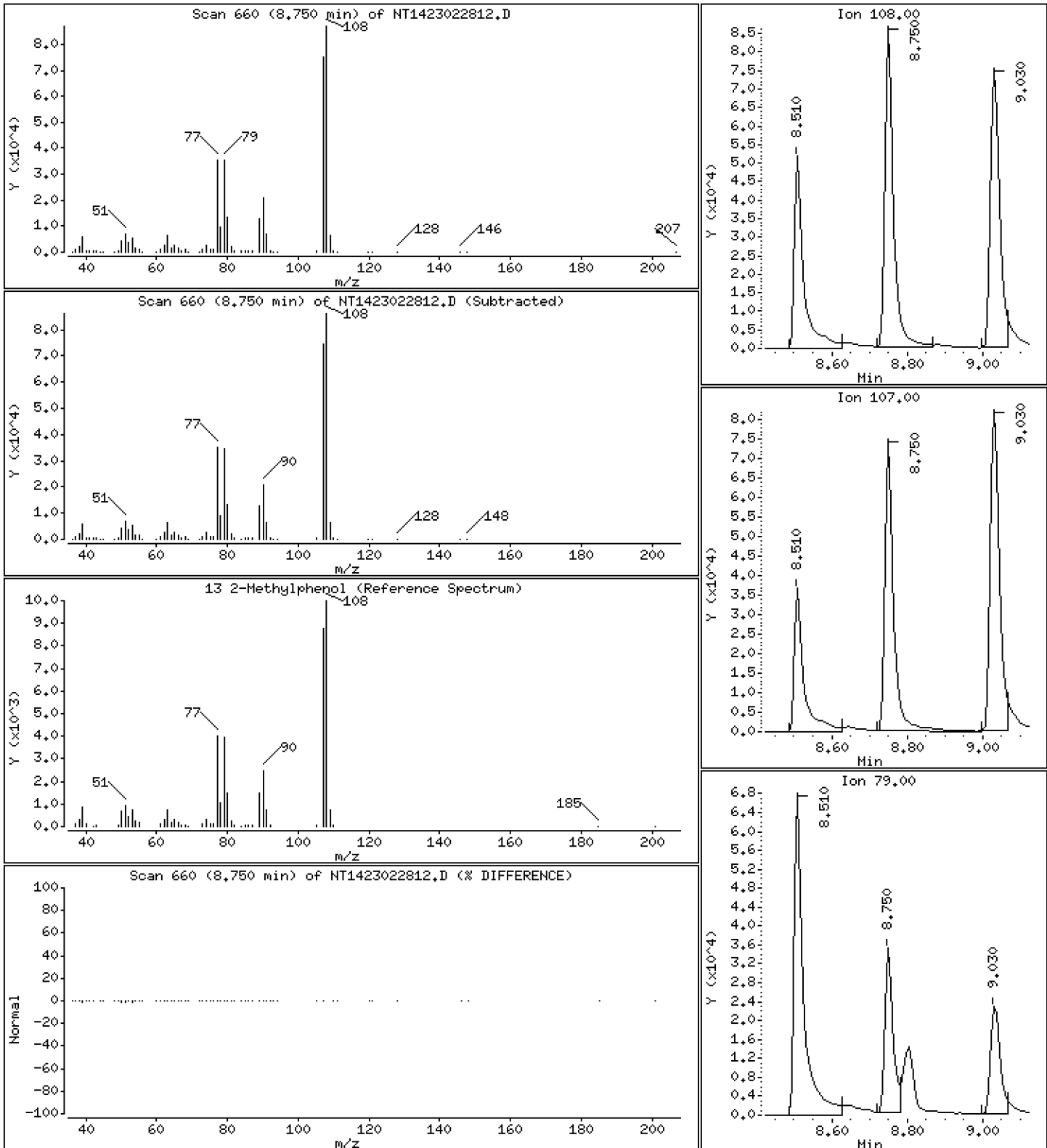
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

13 2-Methylphenol

Concentration: 4.407 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

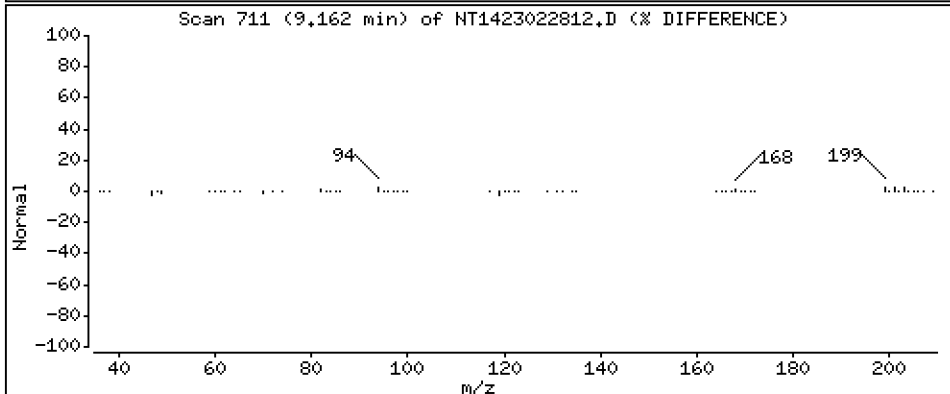
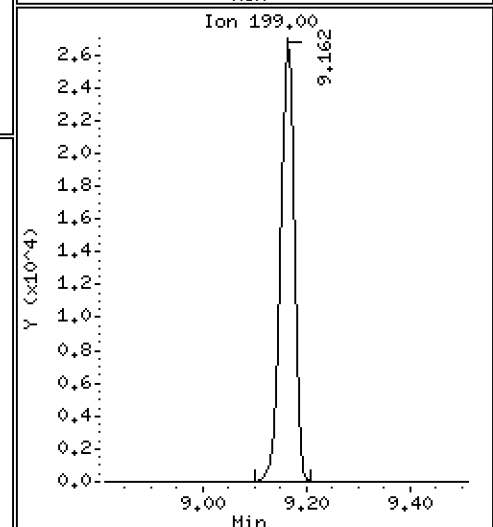
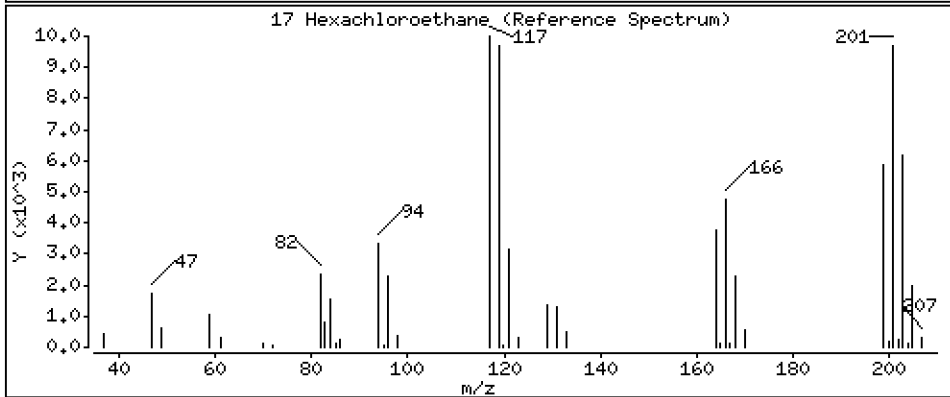
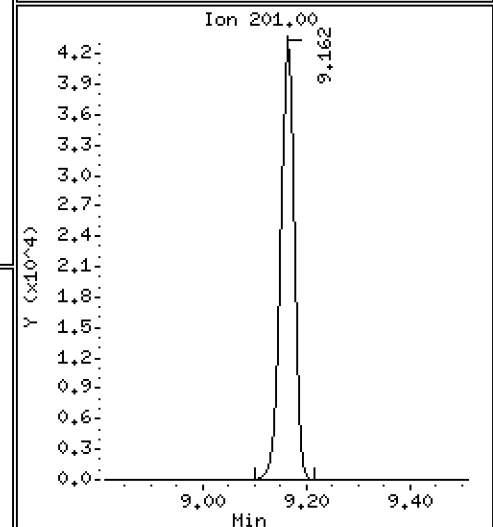
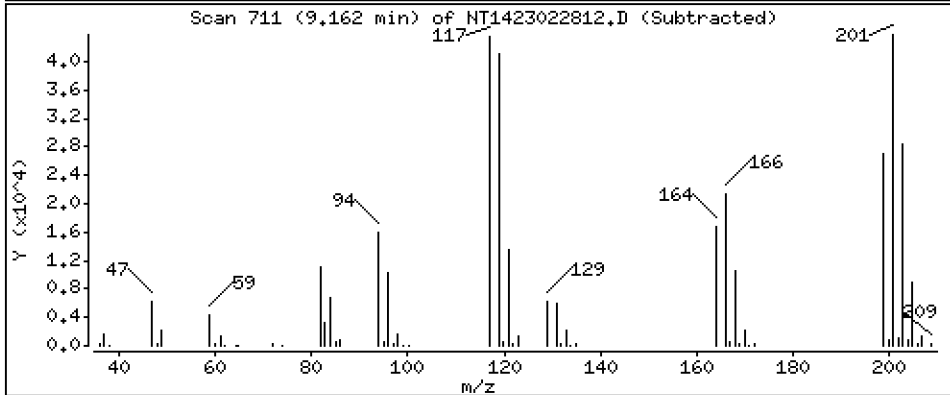
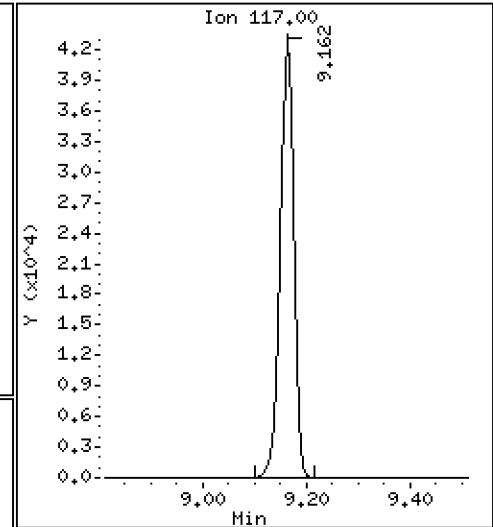
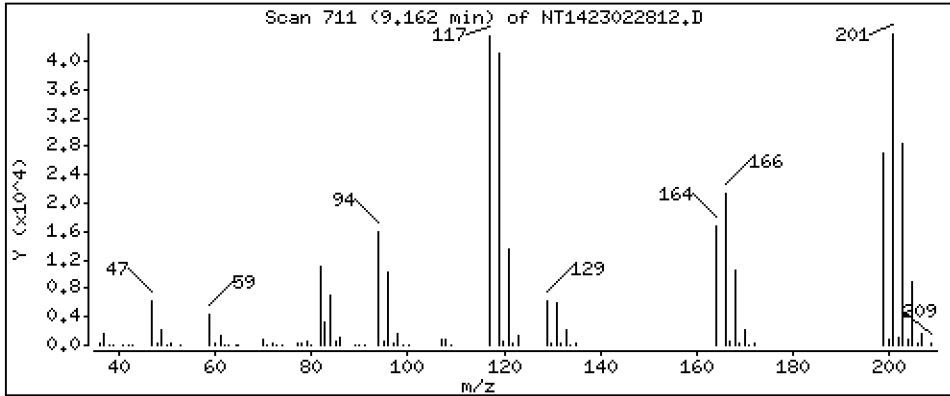
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

17 Hexachloroethane

Concentration: 5.089 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

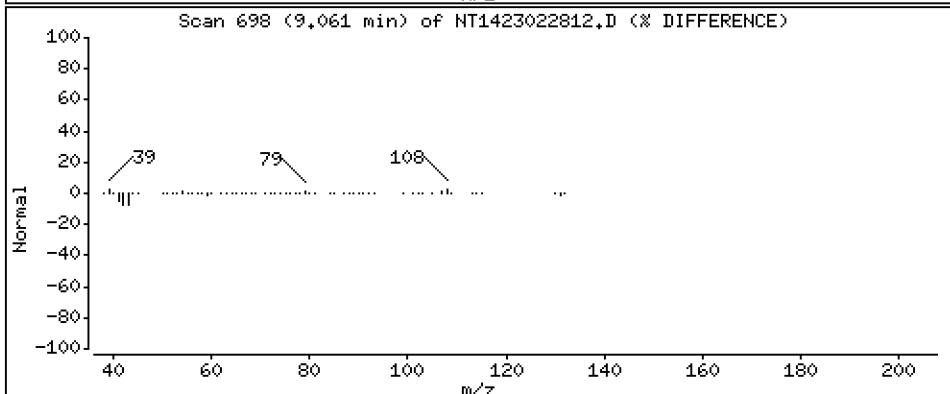
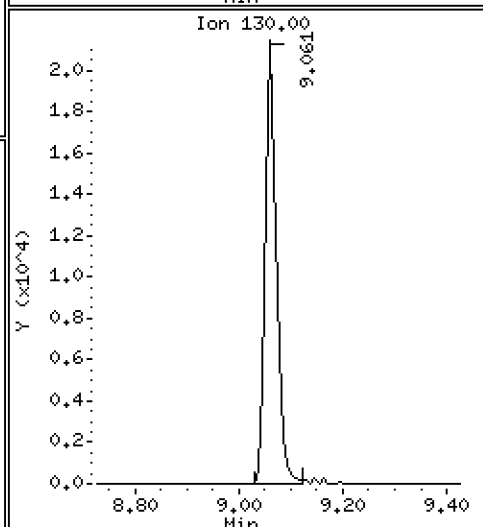
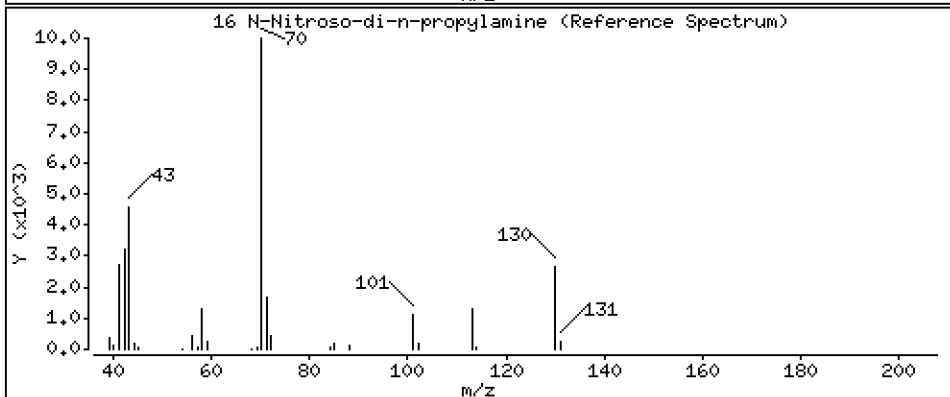
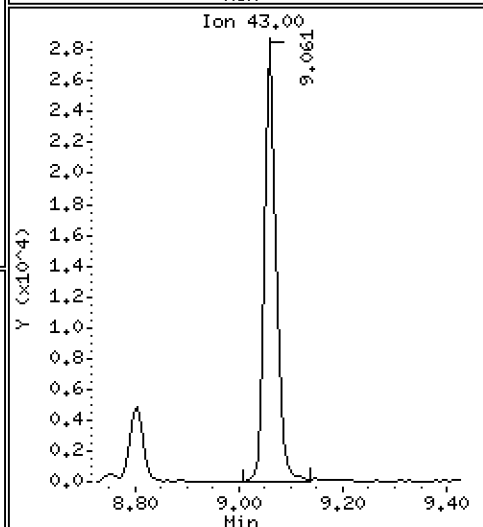
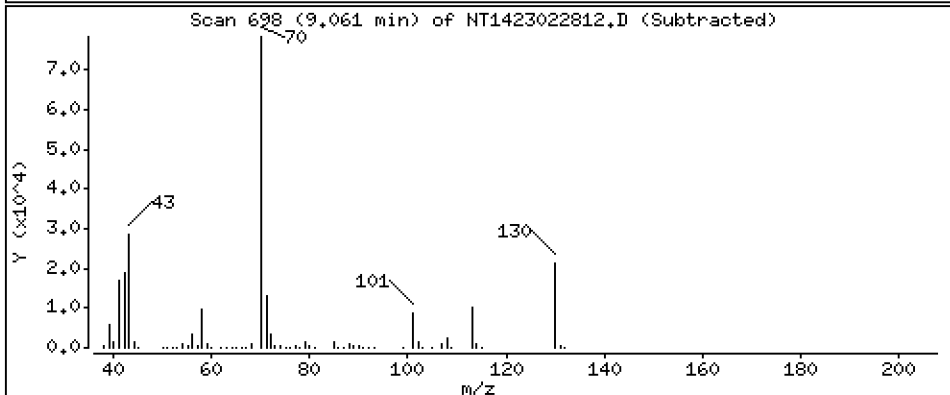
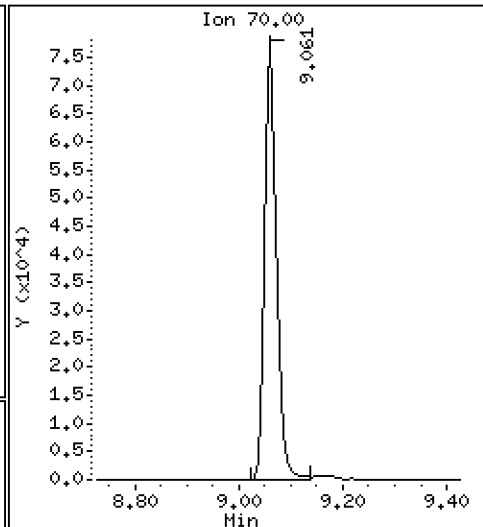
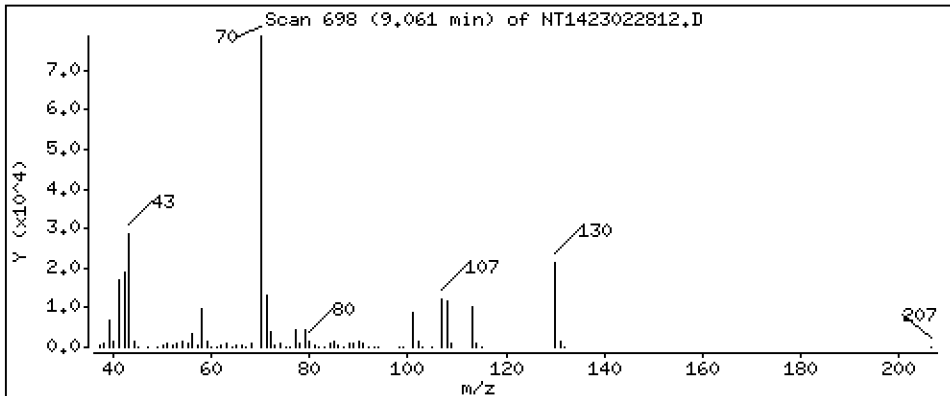
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

16 N-Nitroso-di-n-propylamine

Concentration: 5.138 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

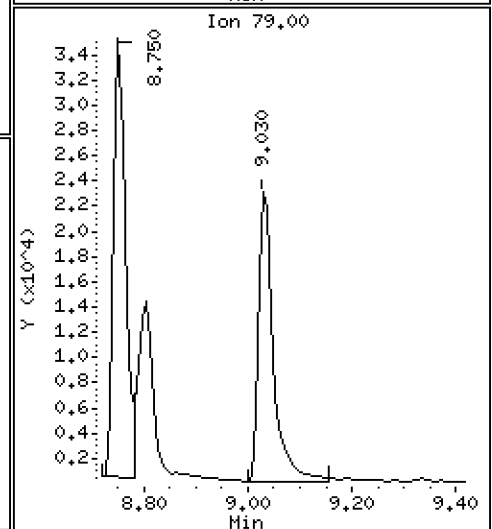
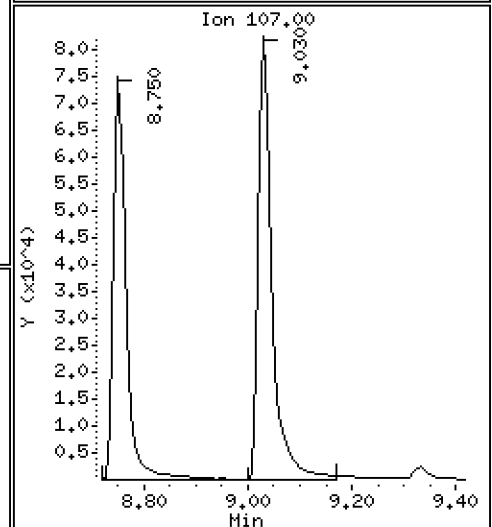
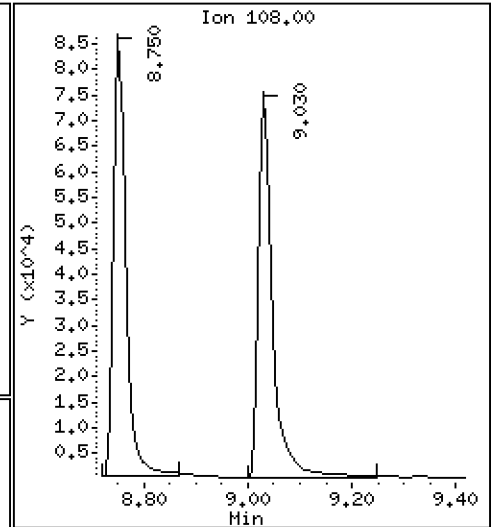
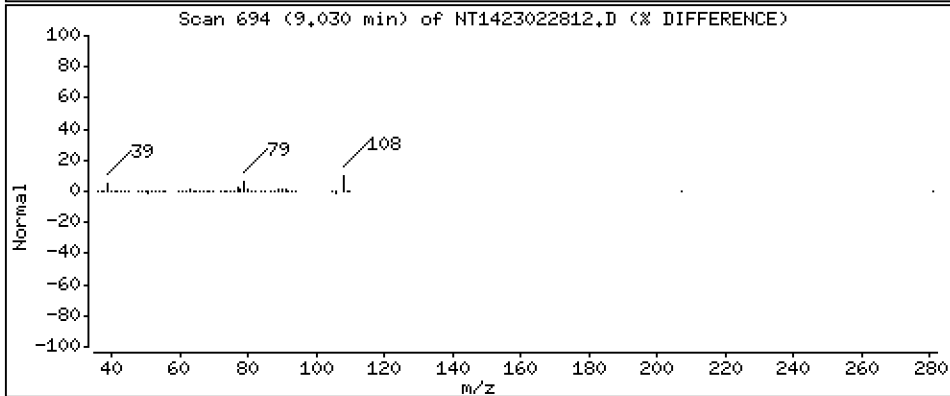
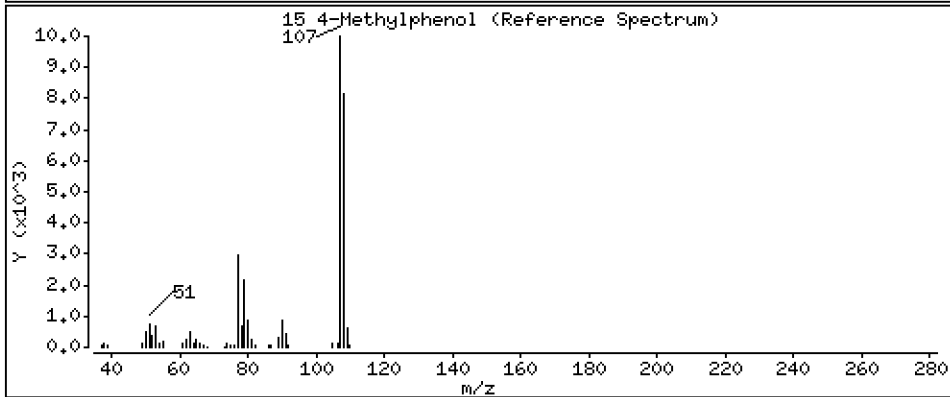
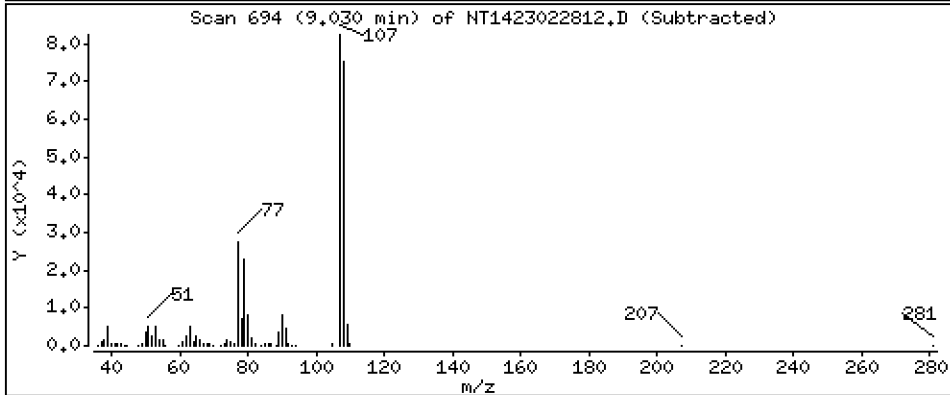
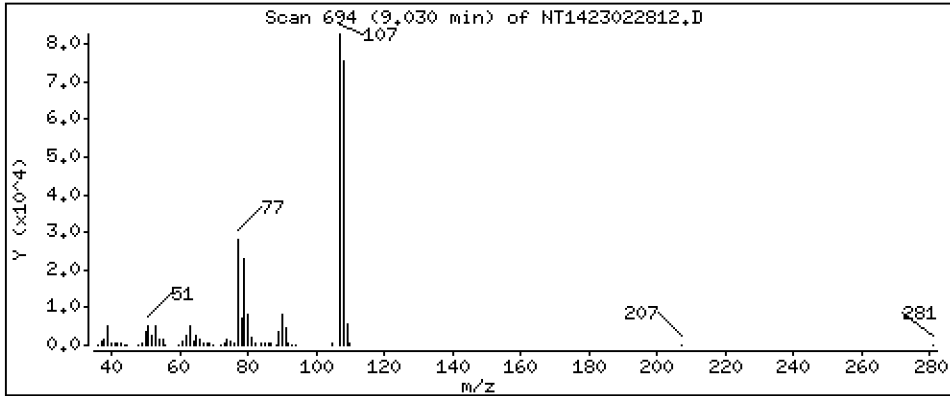
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 4.218 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

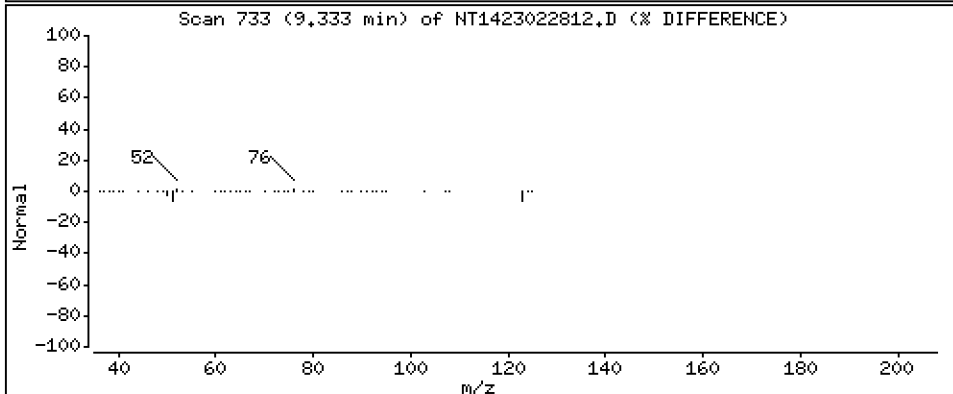
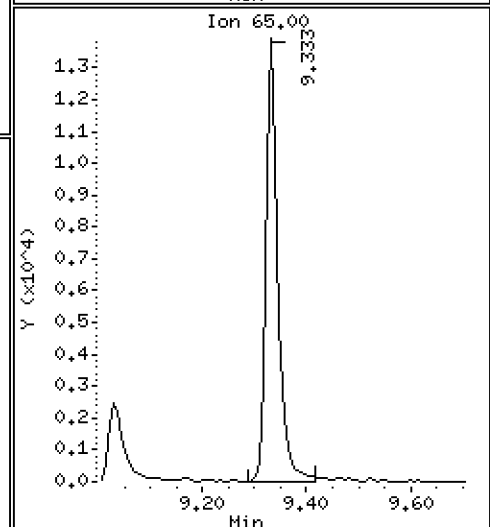
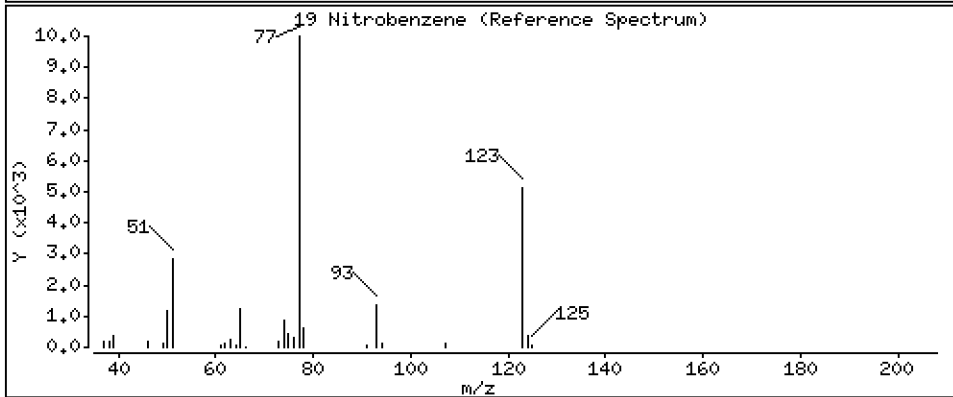
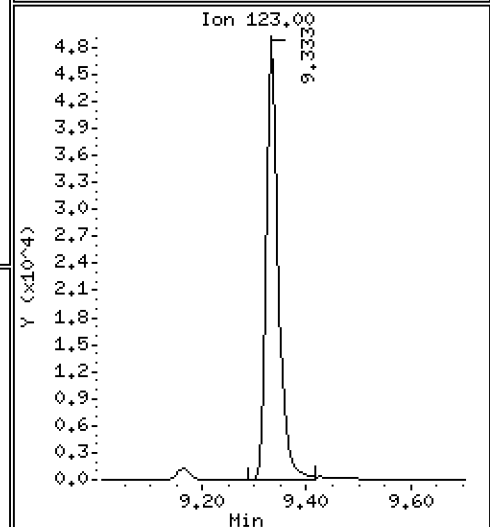
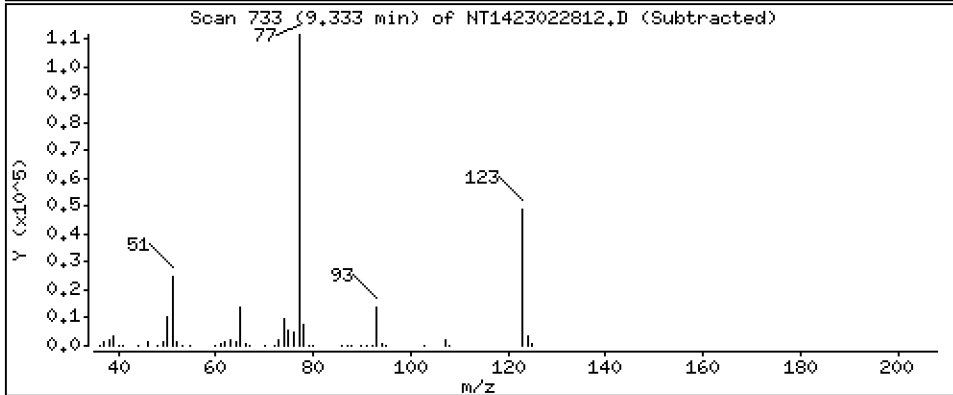
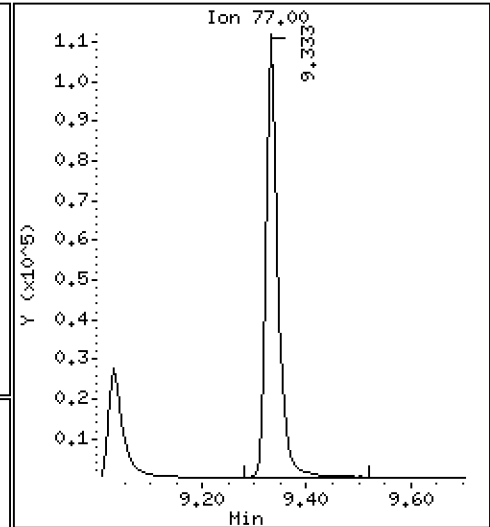
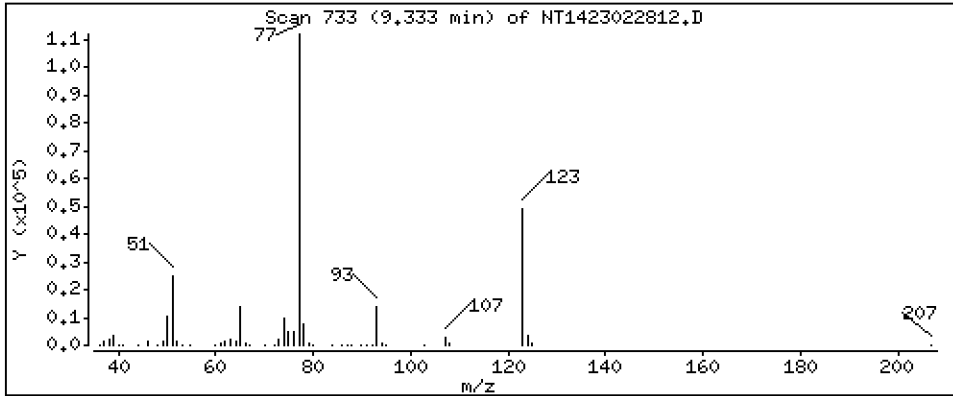
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

Concentration: 5,059 ug/mL

19 Nitrobenzene



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

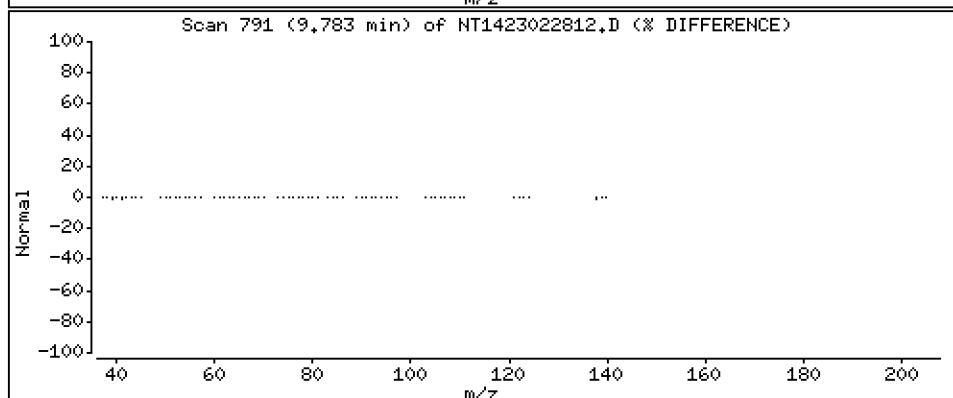
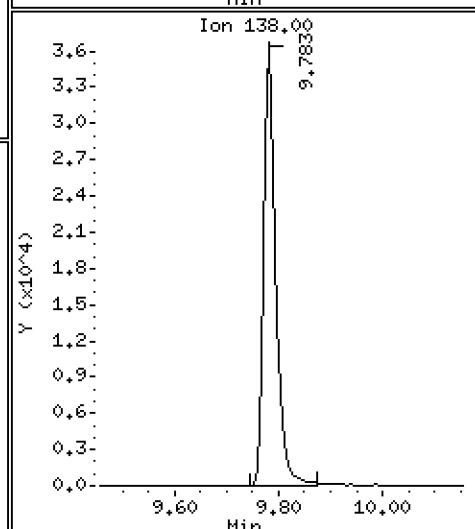
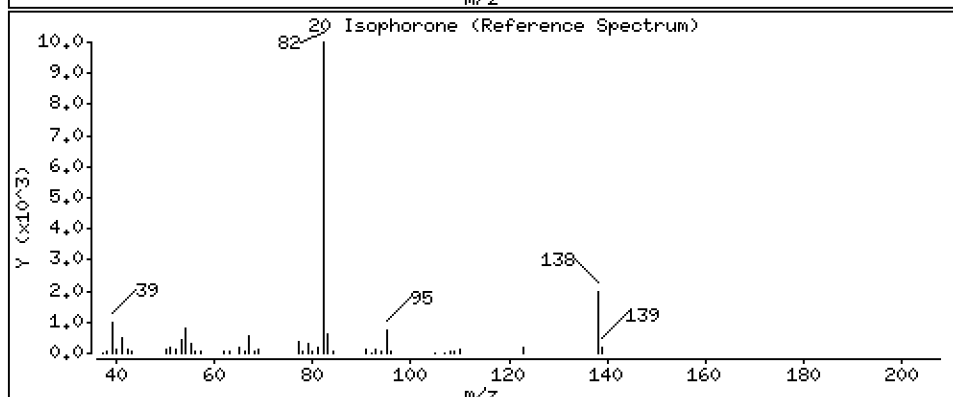
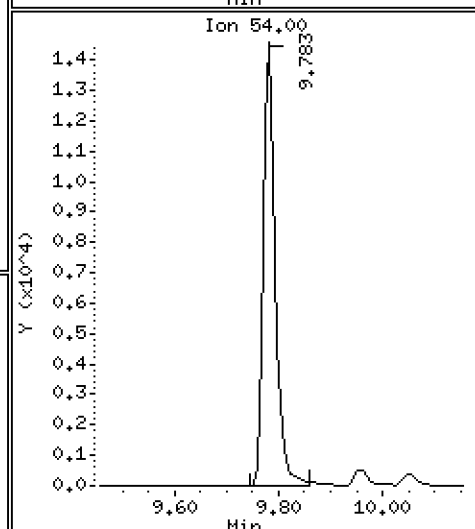
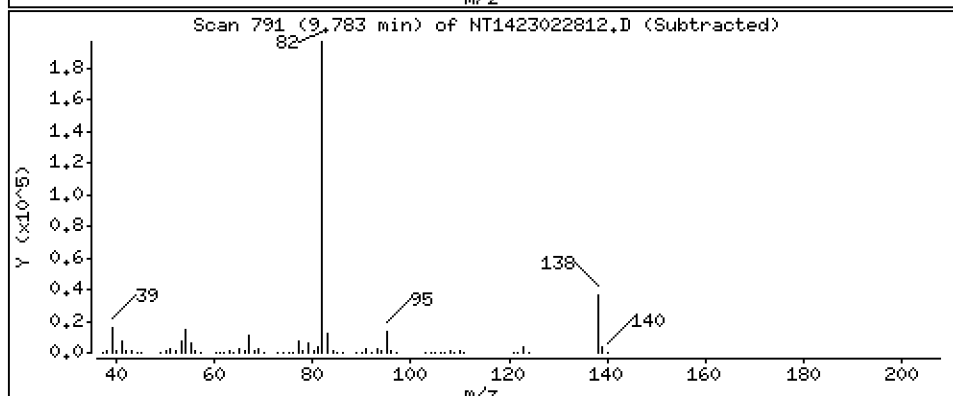
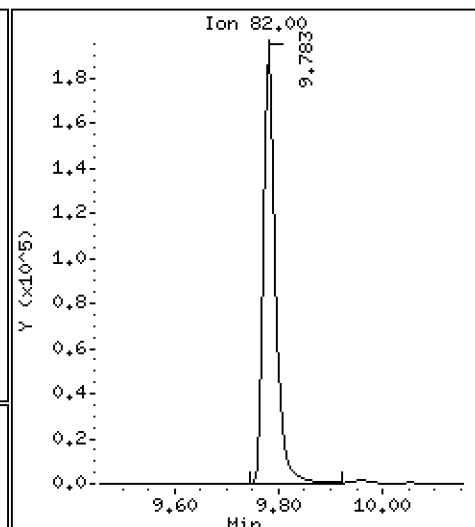
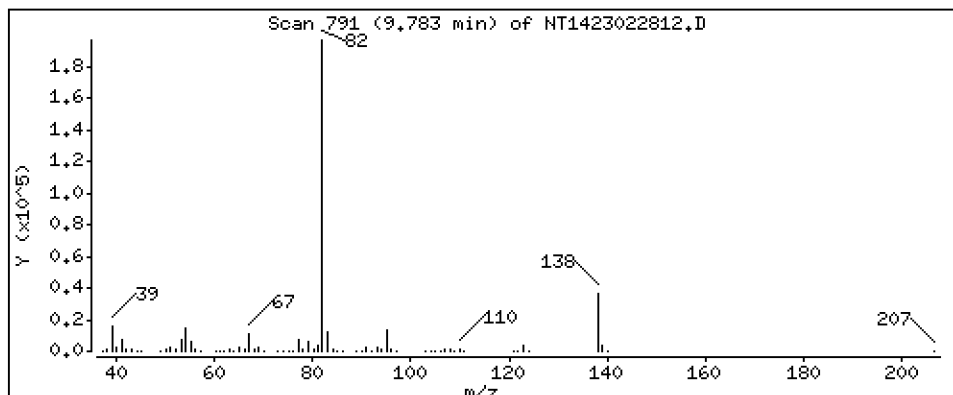
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

20 Isophorone

Concentration: 6.410 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

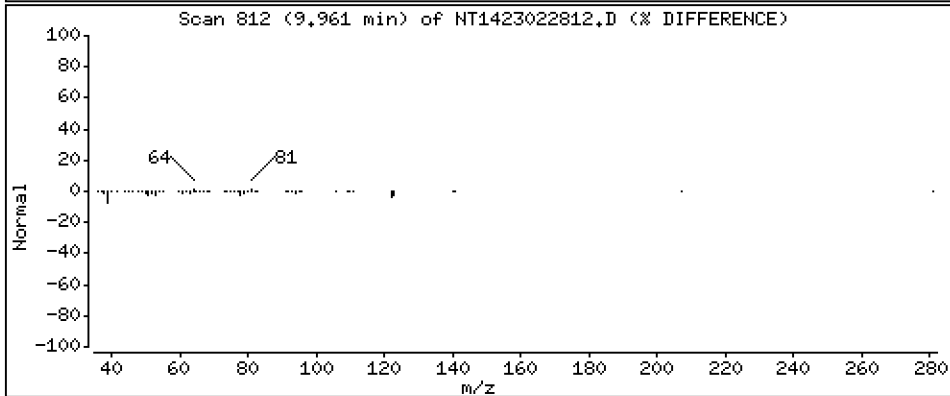
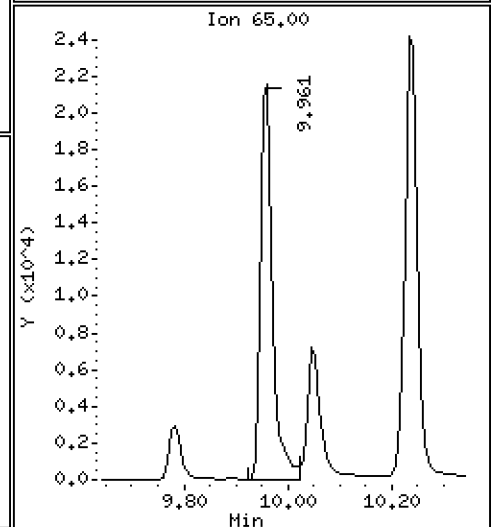
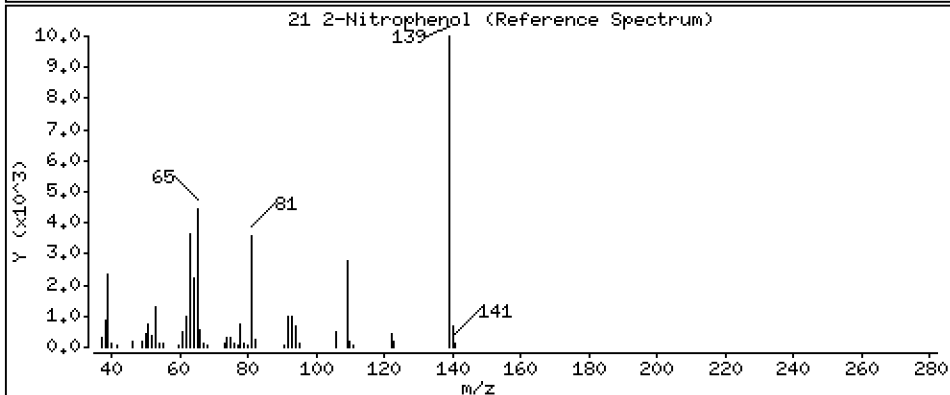
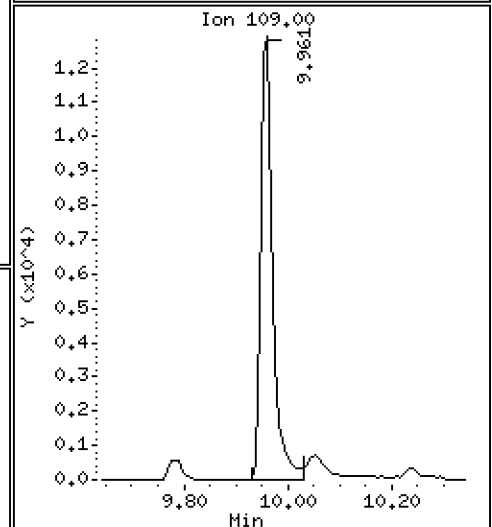
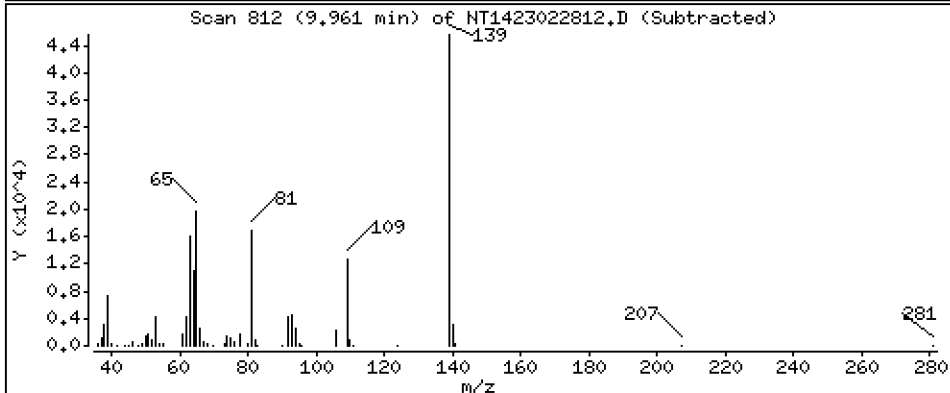
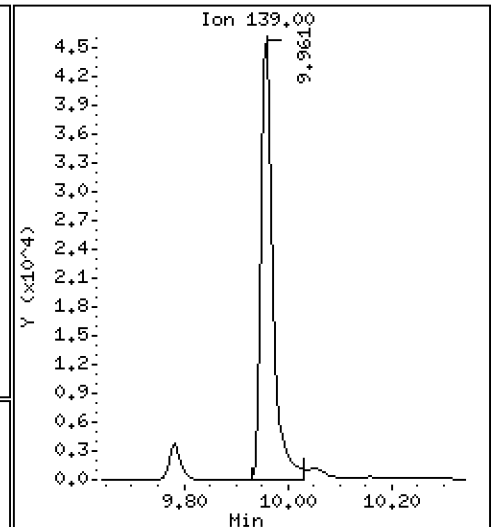
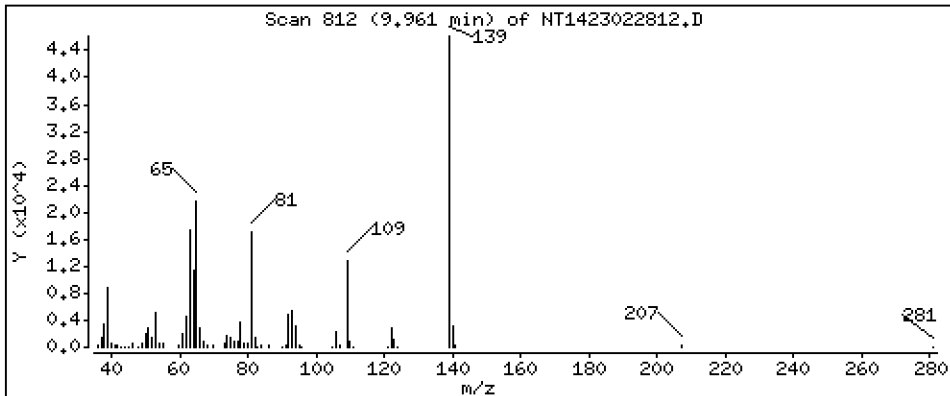
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

21 2-Nitrophenol

Concentration: 4,126 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

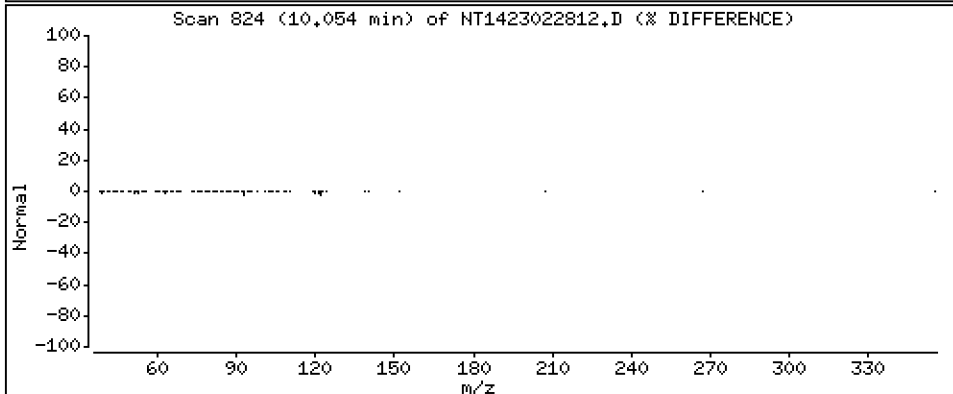
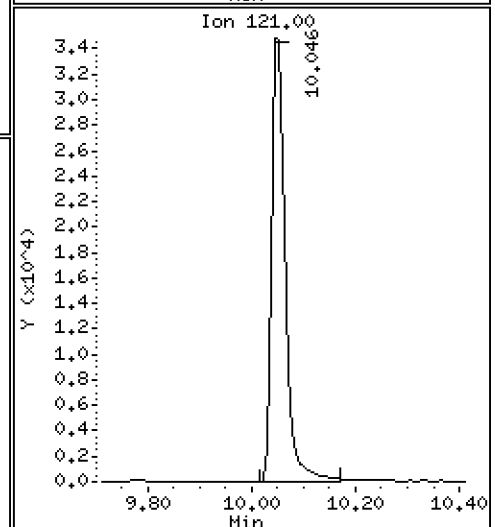
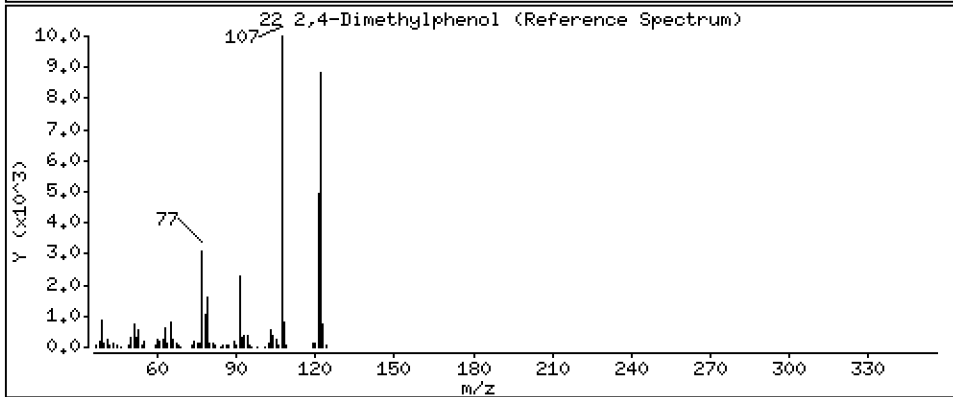
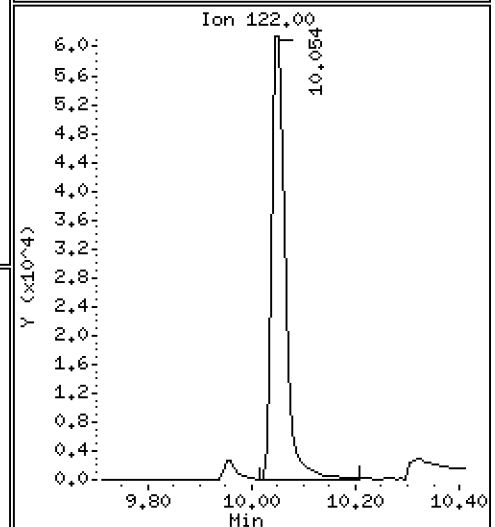
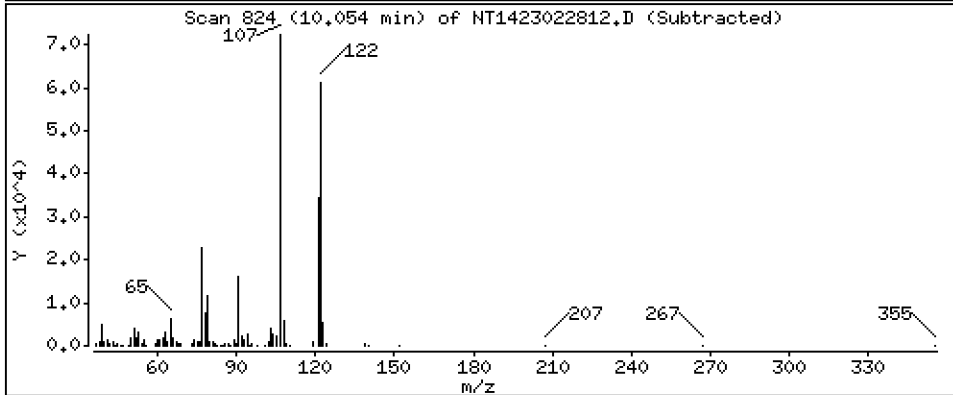
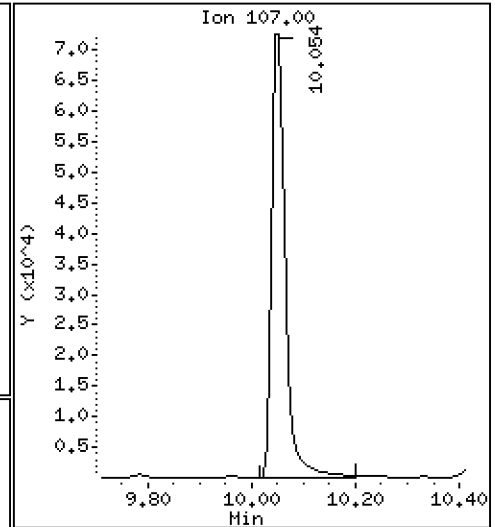
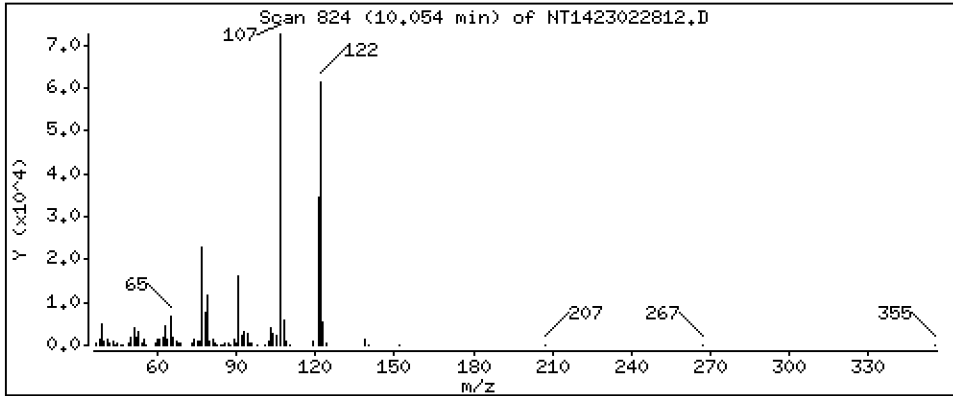
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 3,890 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

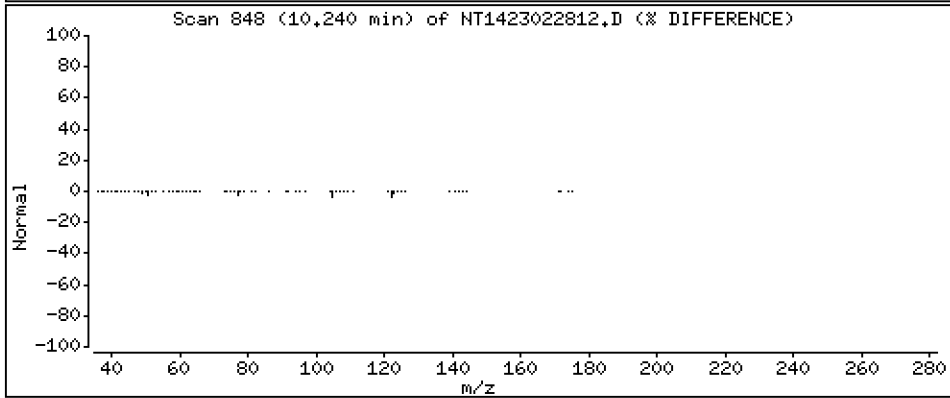
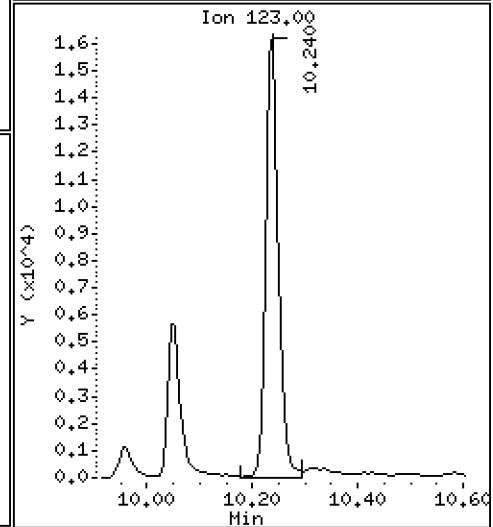
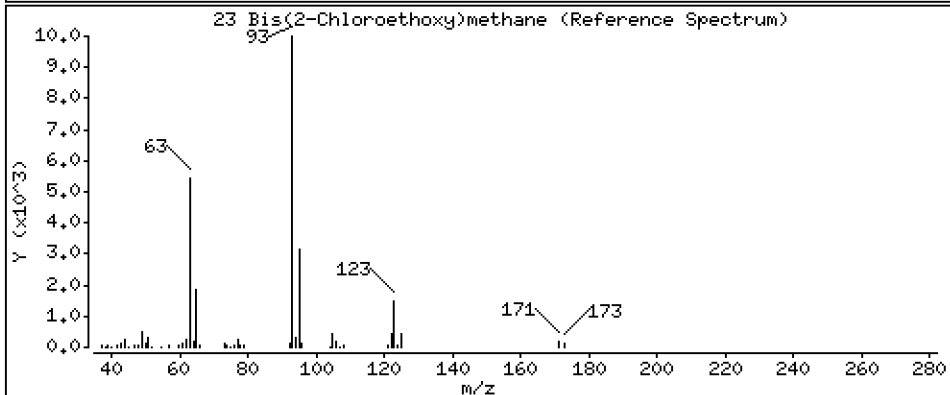
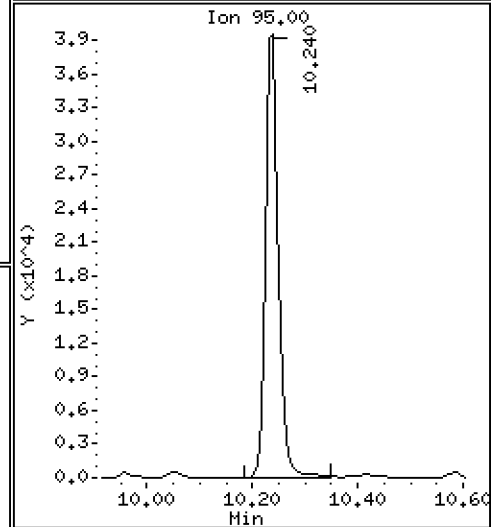
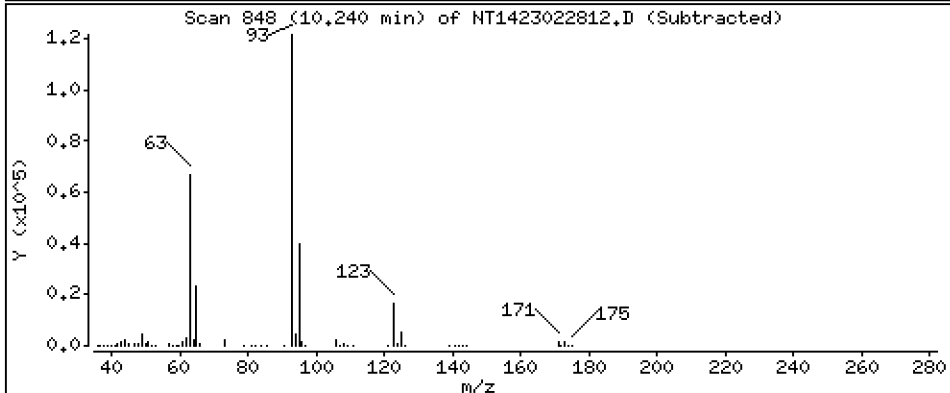
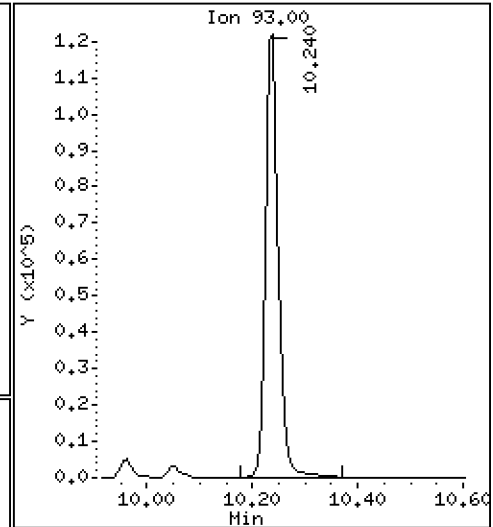
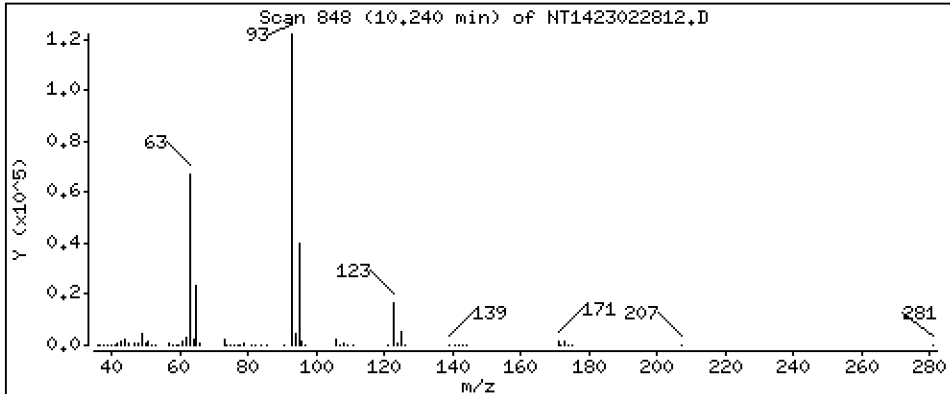
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

23 Bis(2-Chloroethoxy)methane

Concentration: 5.764 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

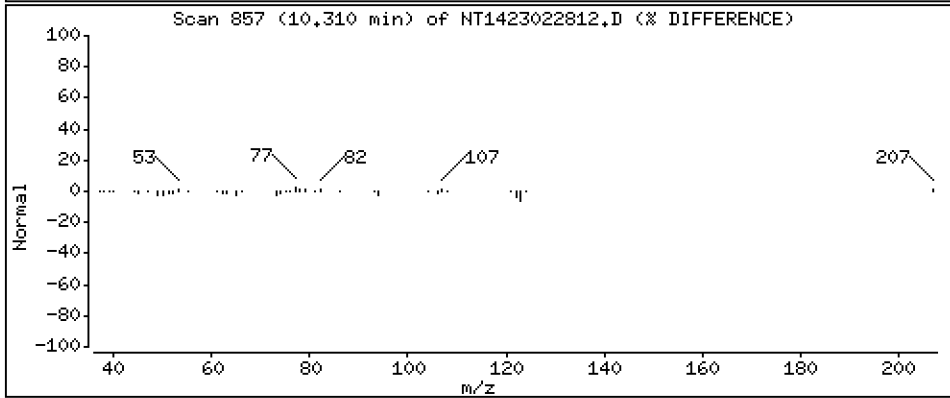
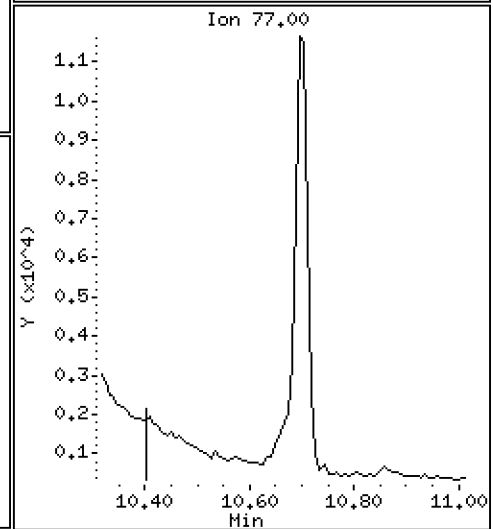
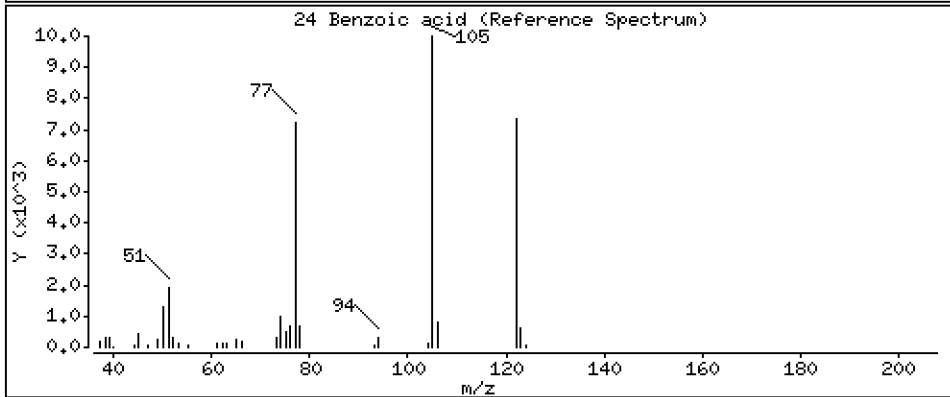
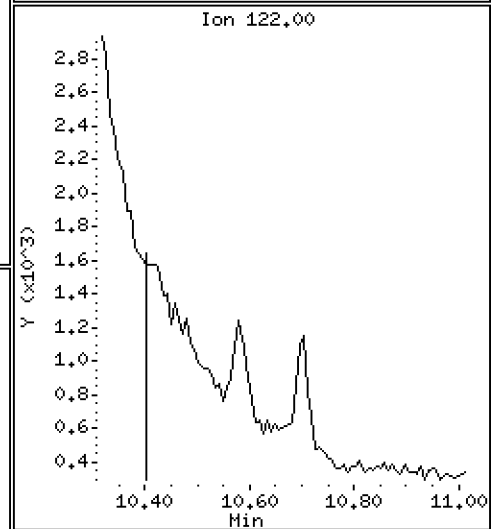
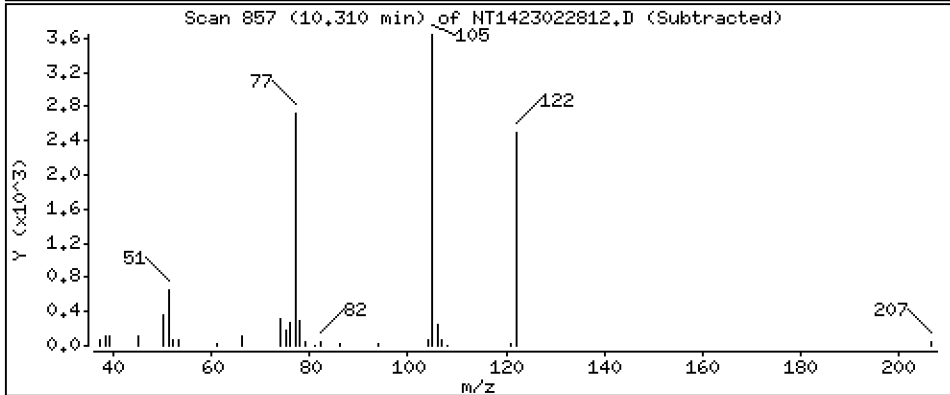
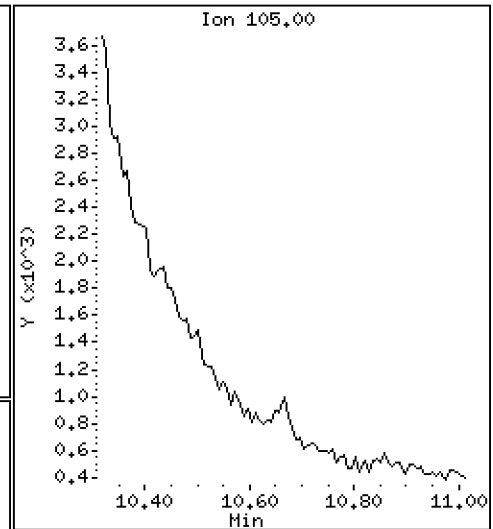
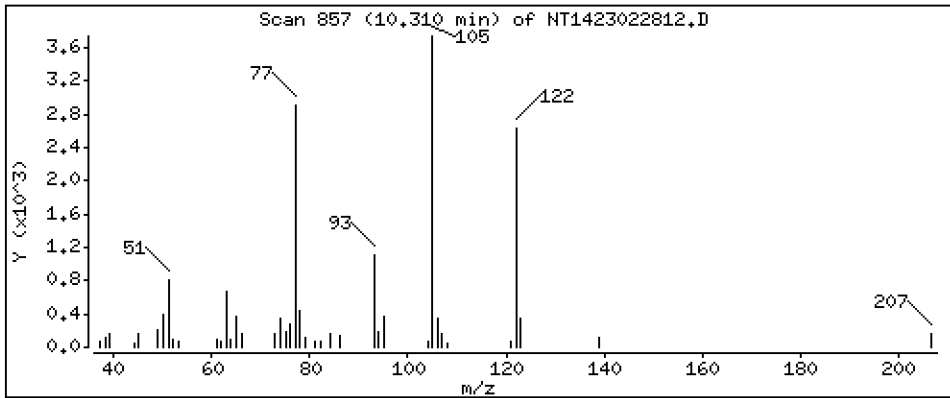
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

24 Benzoic acid

Concentration: 4.071 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

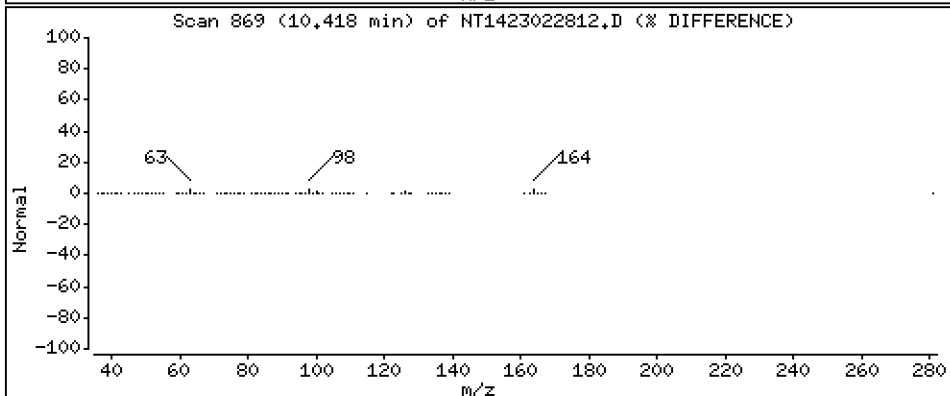
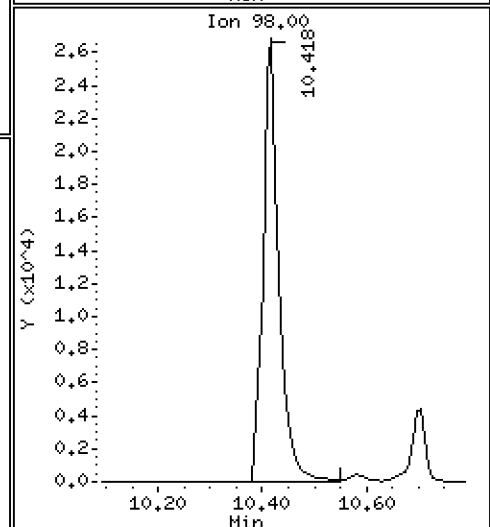
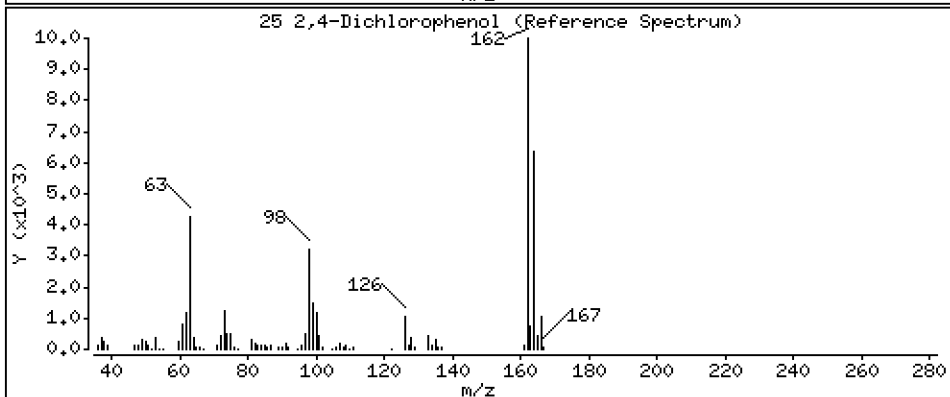
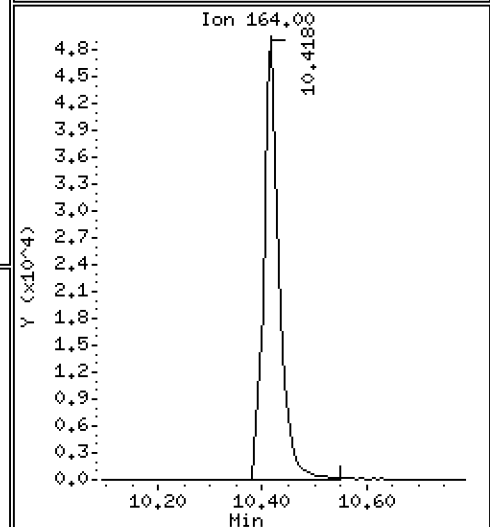
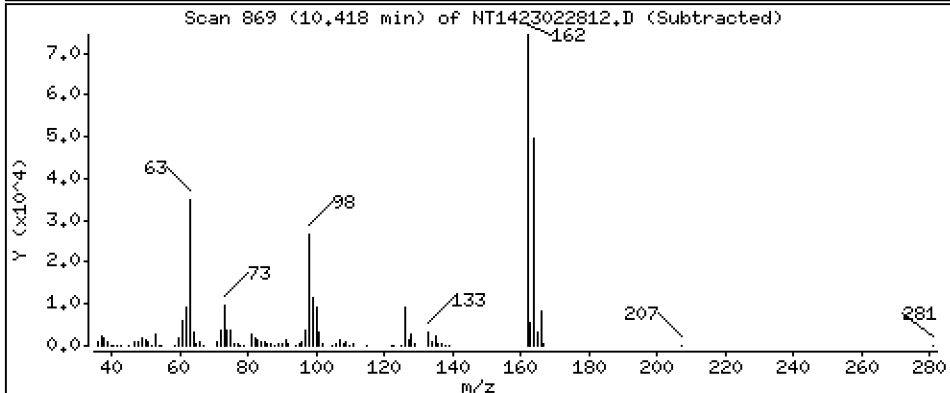
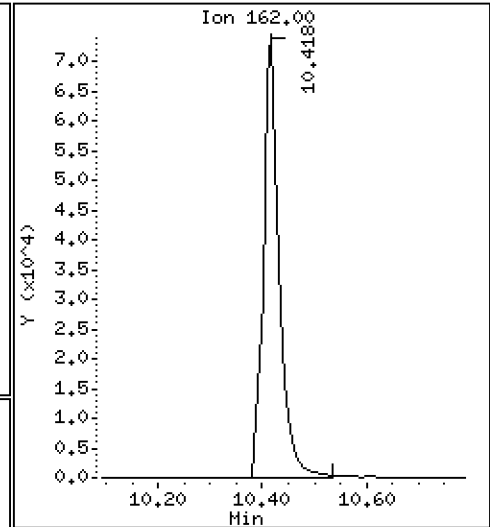
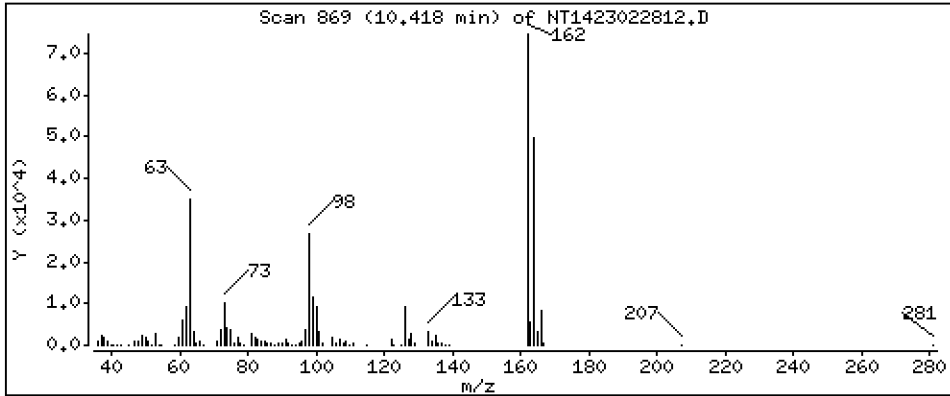
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 4,783 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

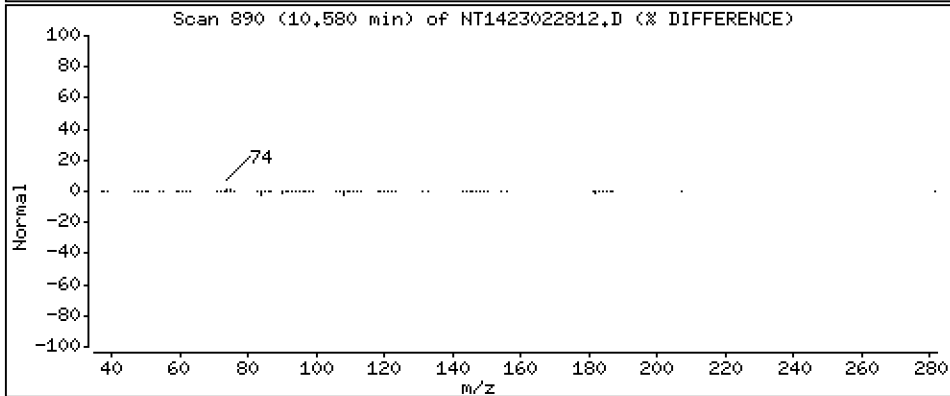
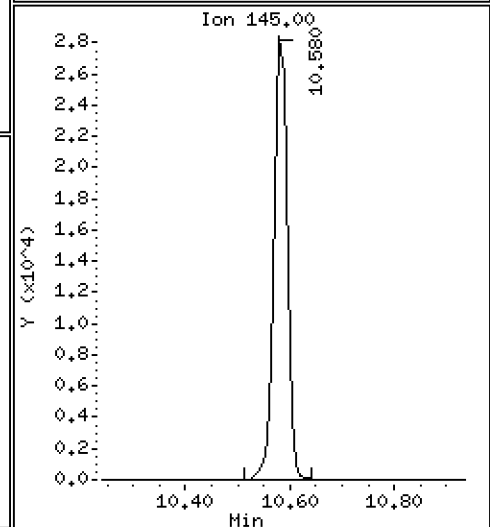
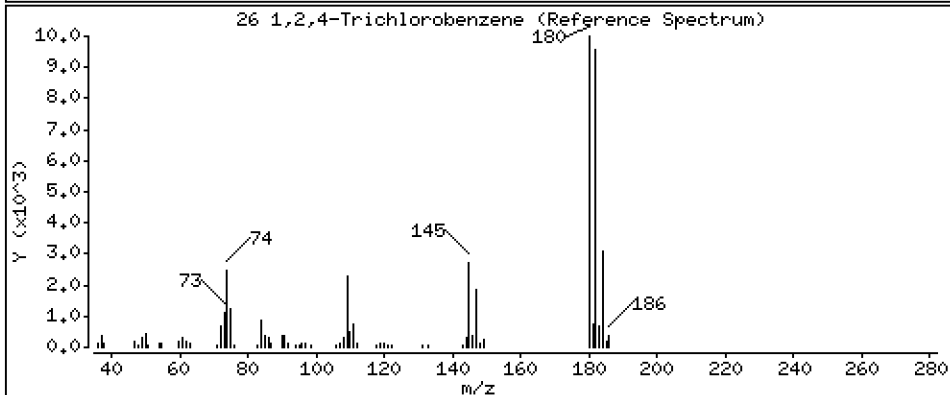
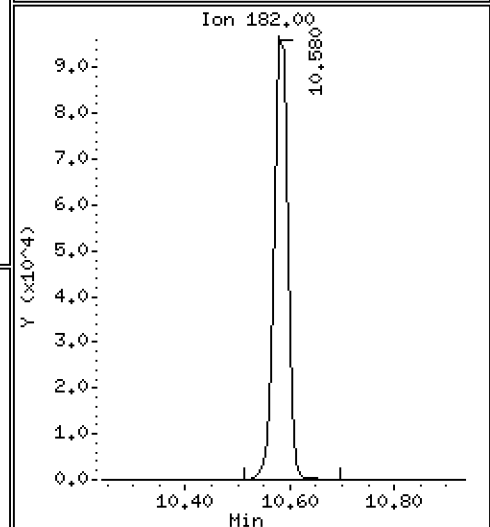
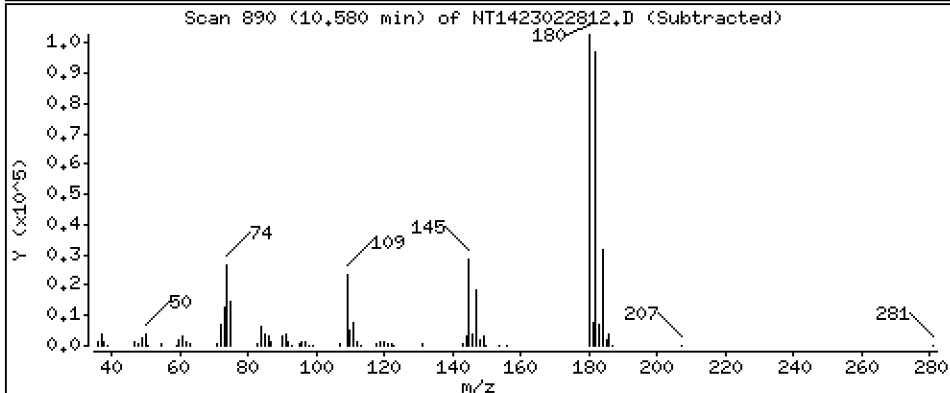
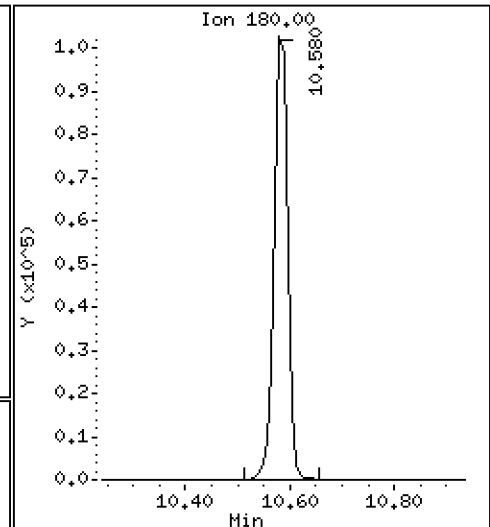
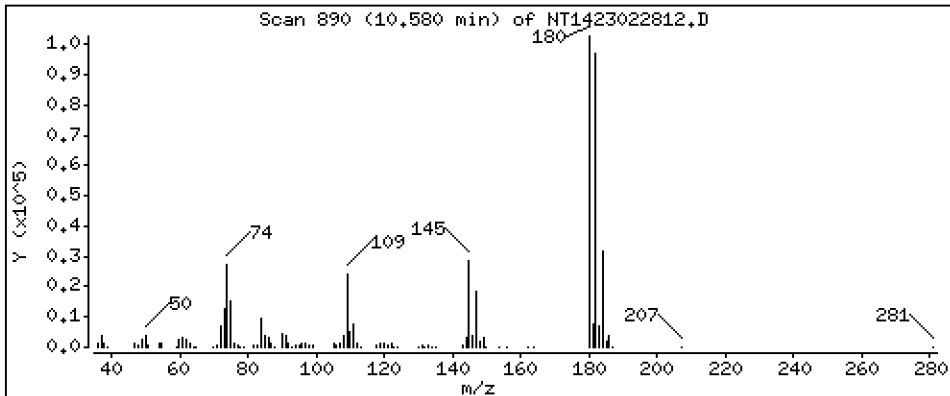
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 4,789 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

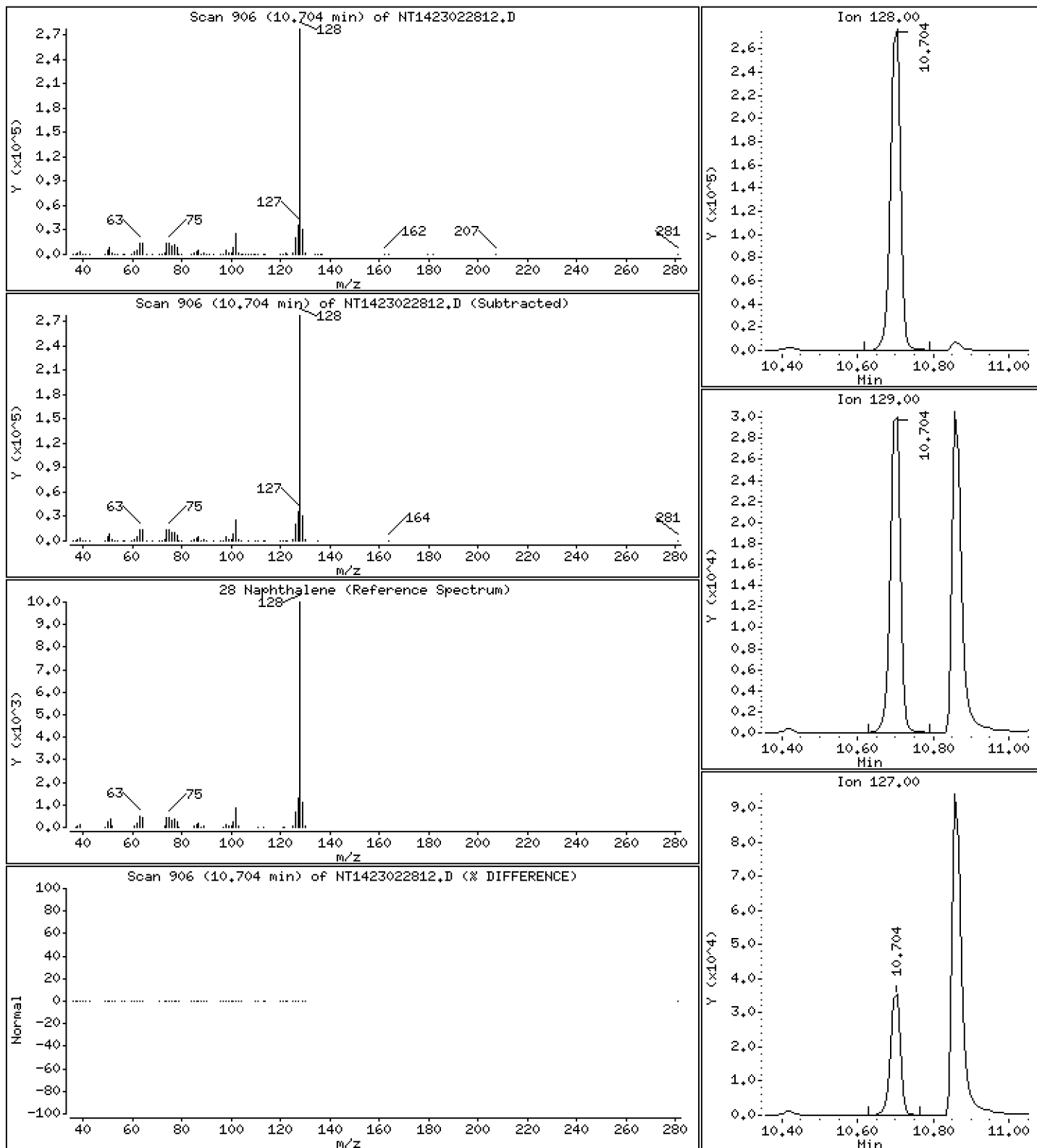
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 4,766 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

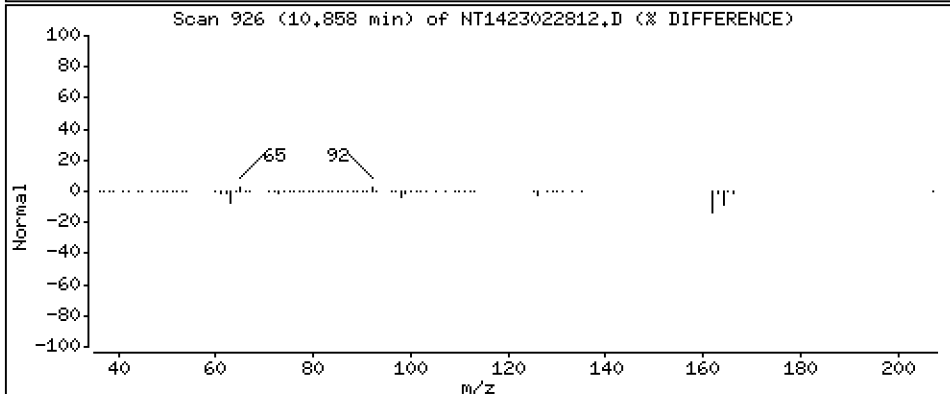
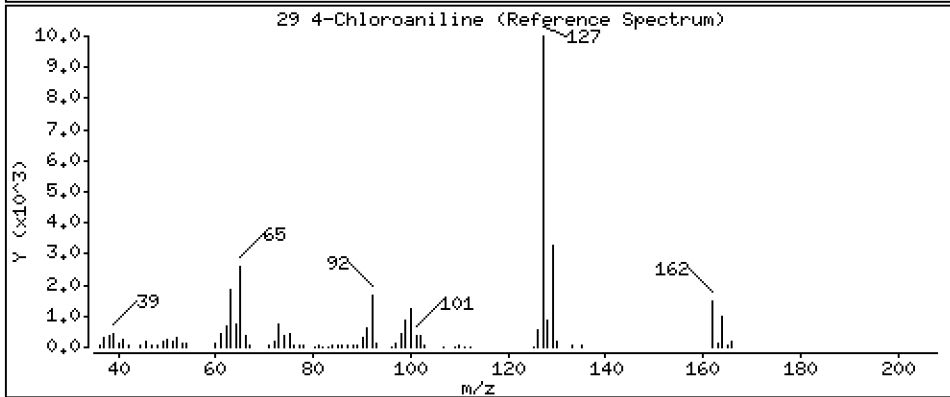
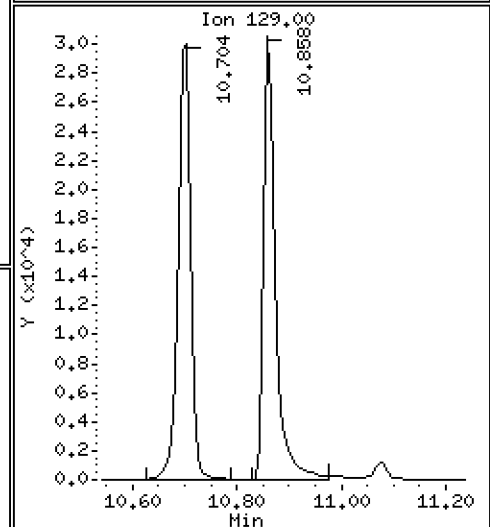
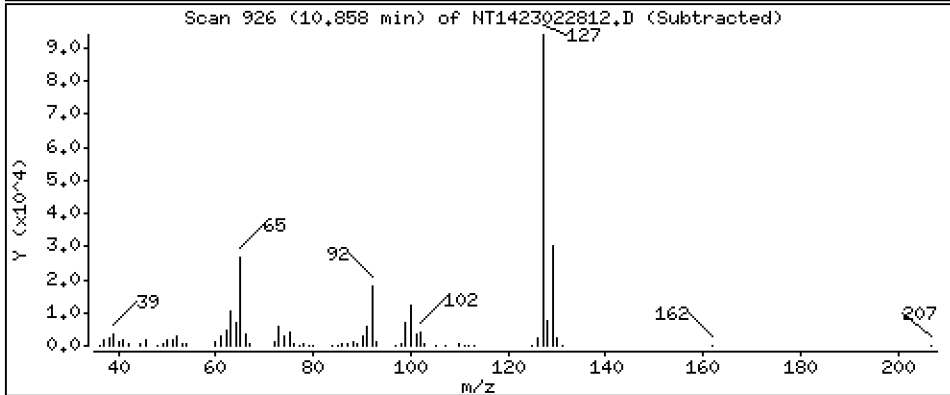
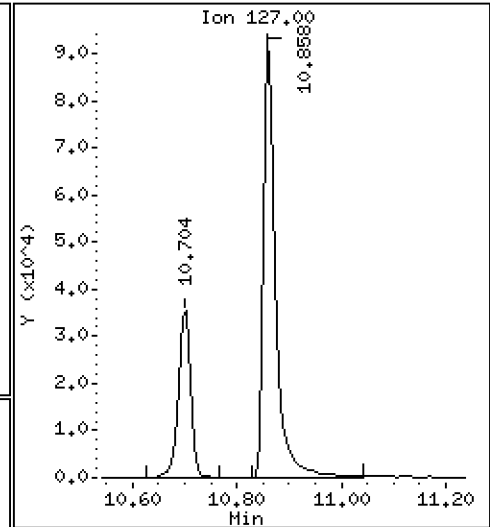
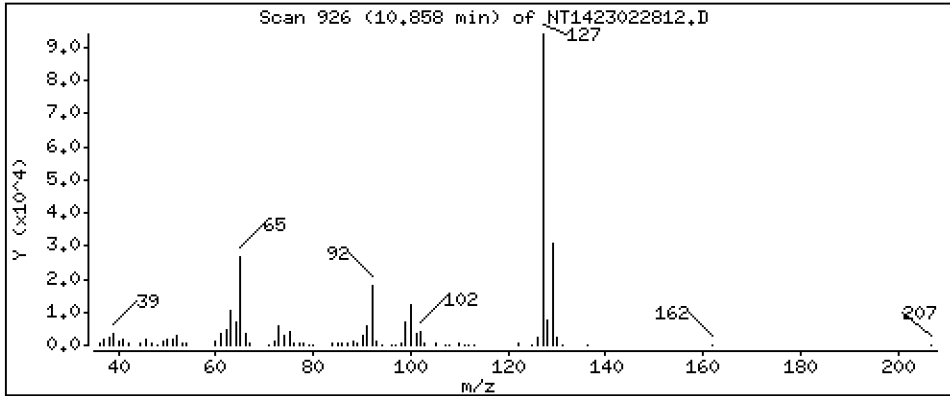
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

29 4-Chloroaniline

Concentration: 3,895 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

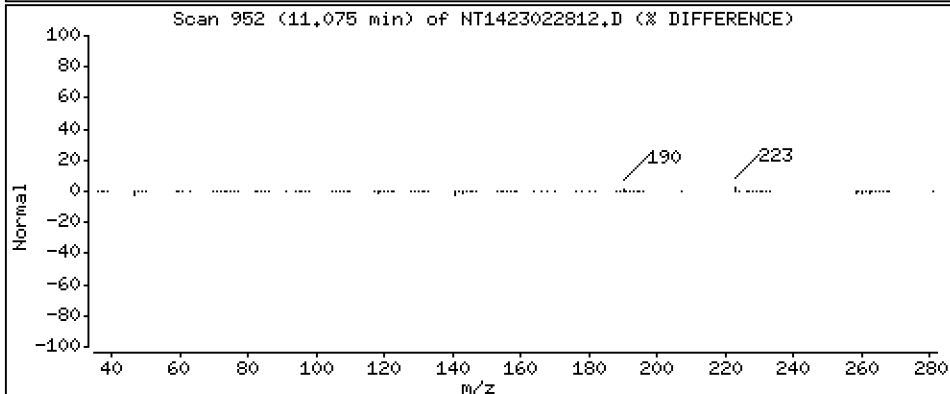
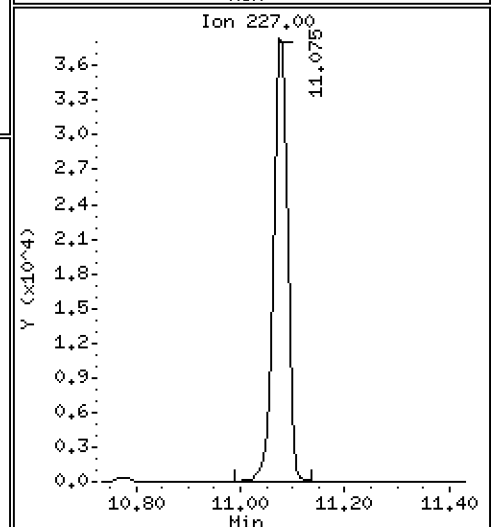
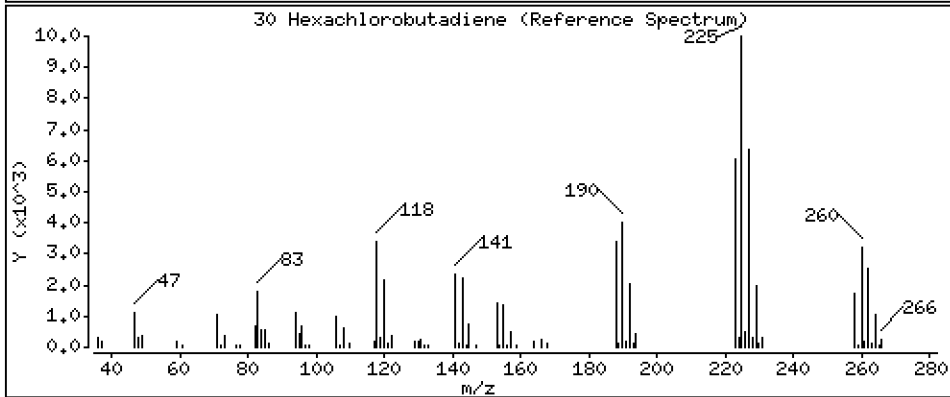
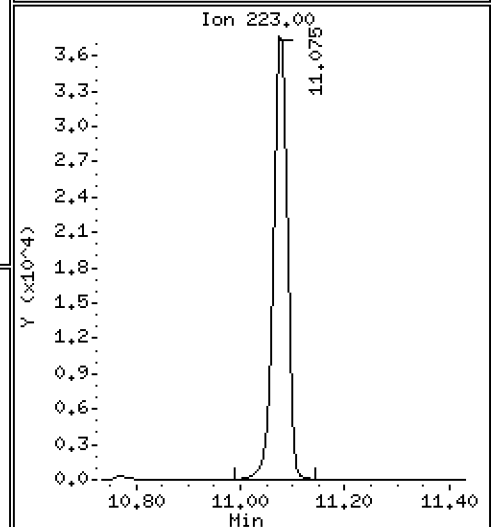
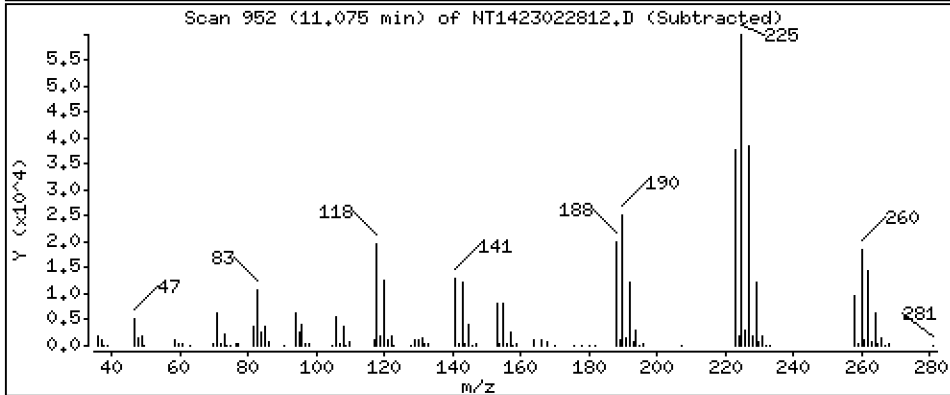
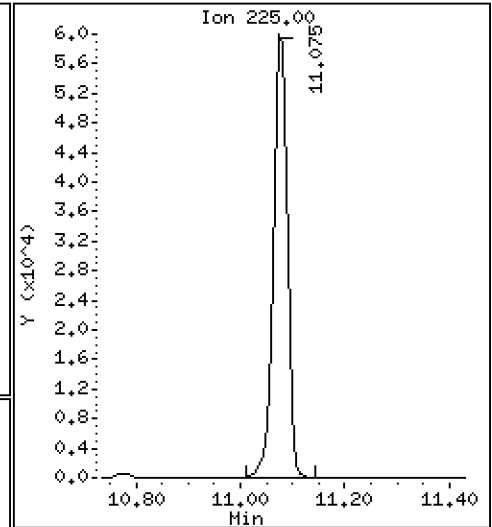
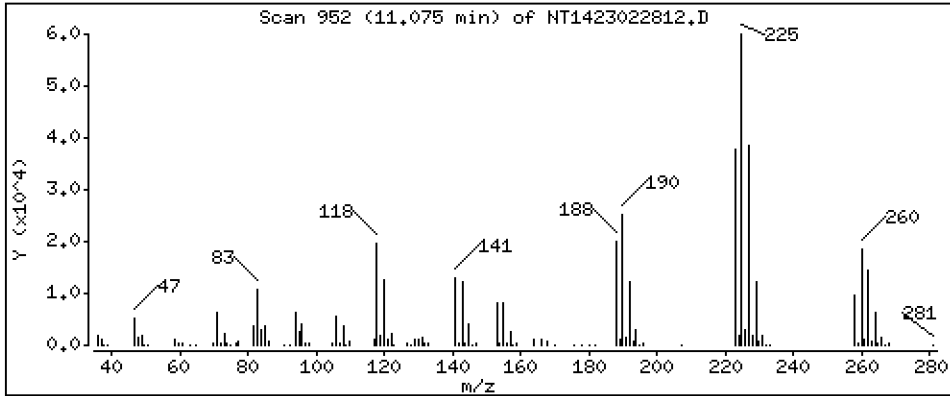
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 4,803 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

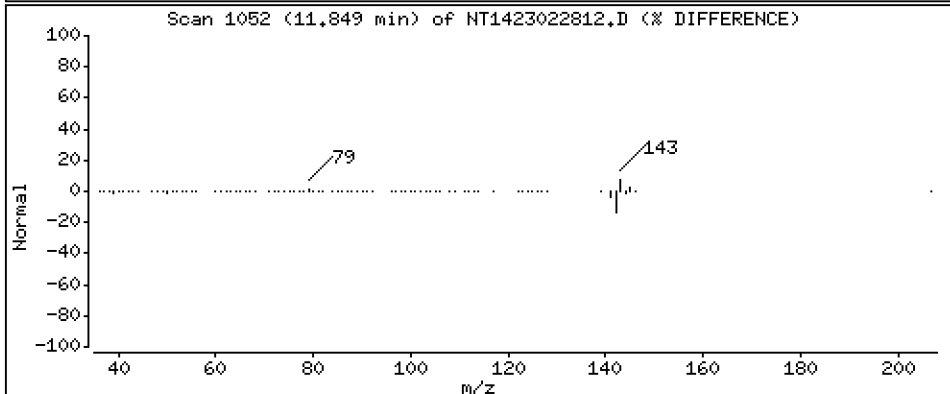
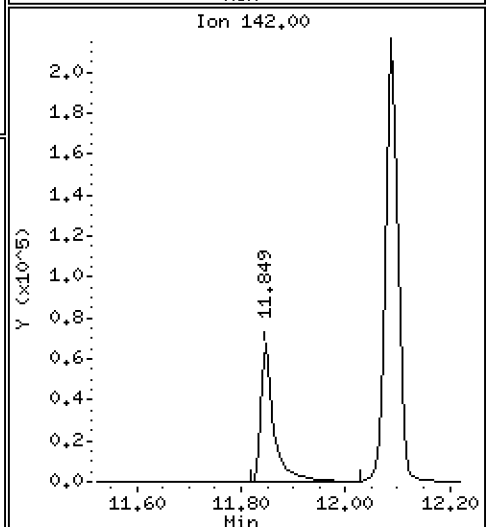
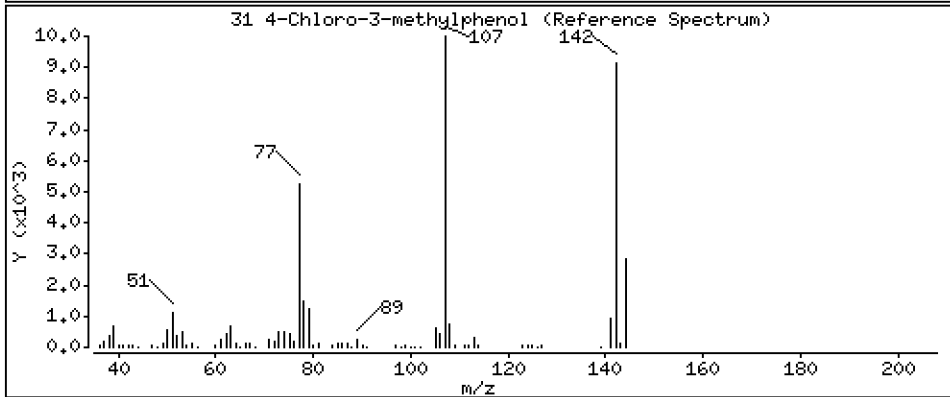
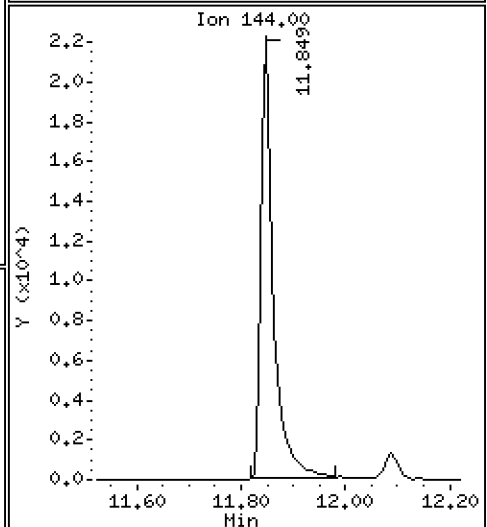
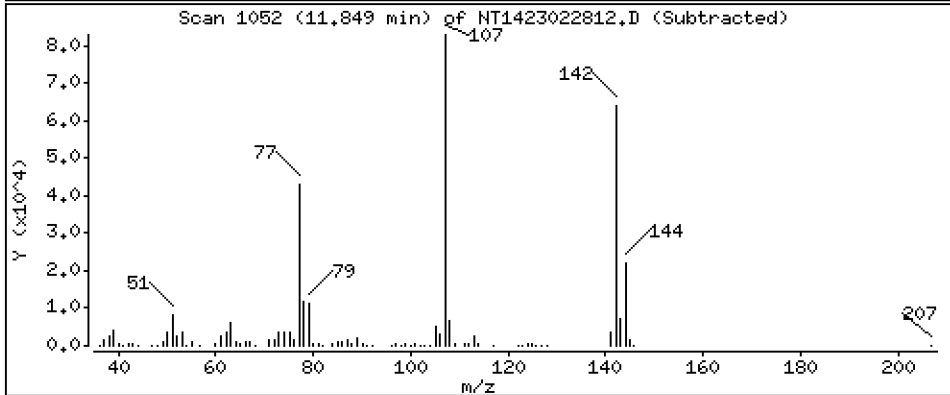
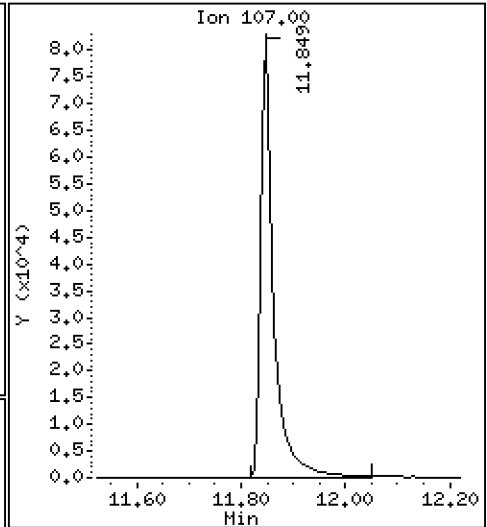
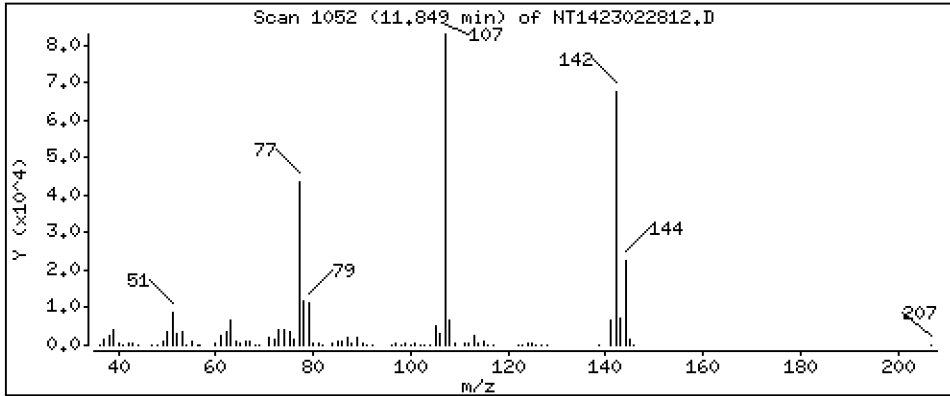
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

31 4-Chloro-3-methylphenol

Concentration: 4.860 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

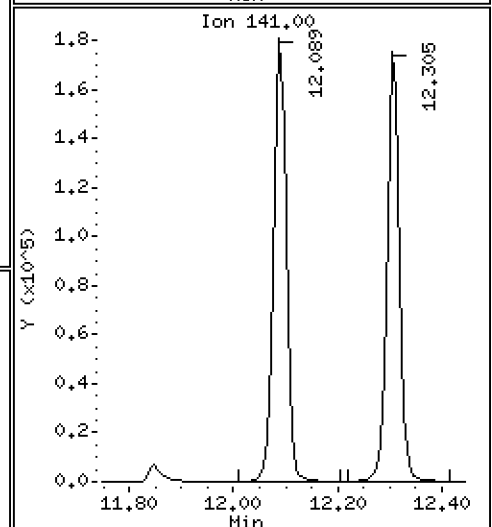
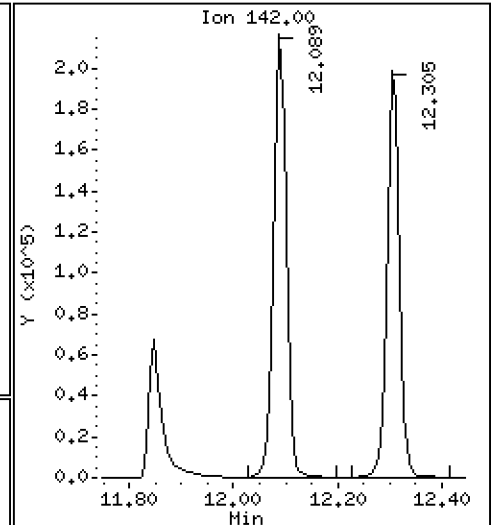
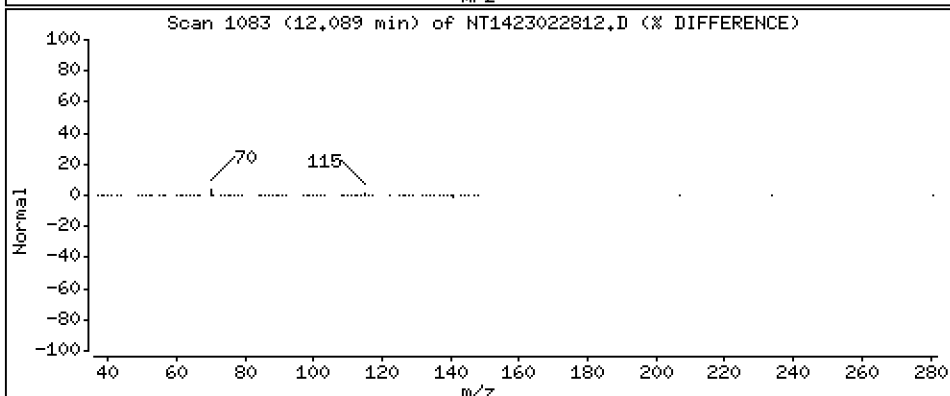
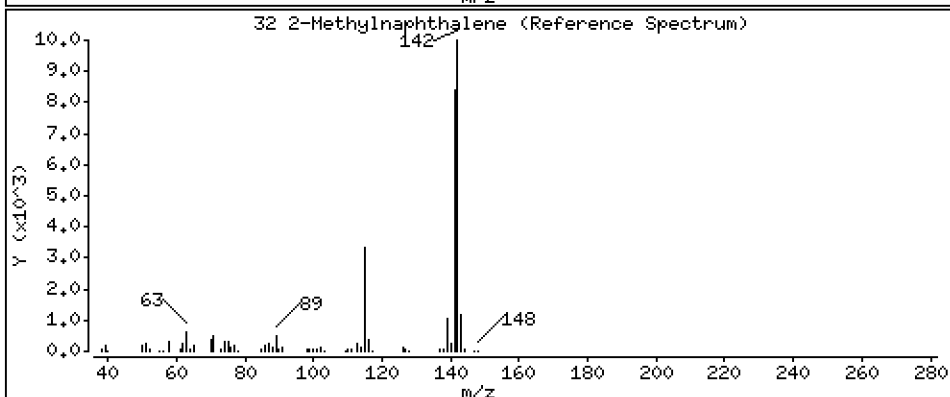
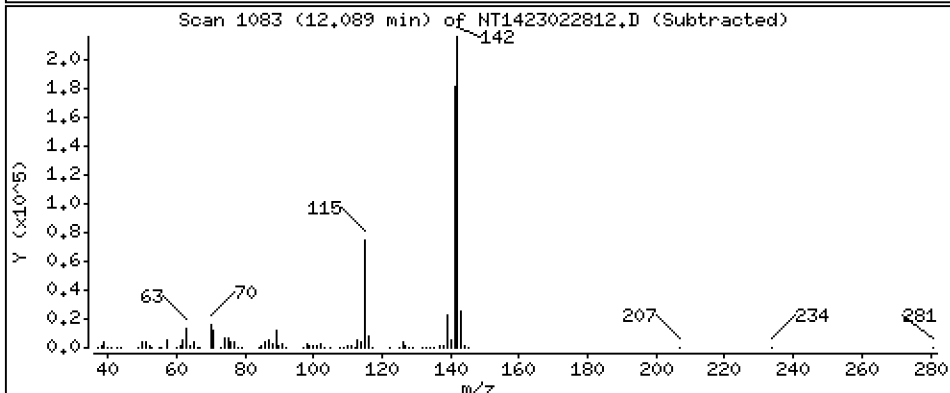
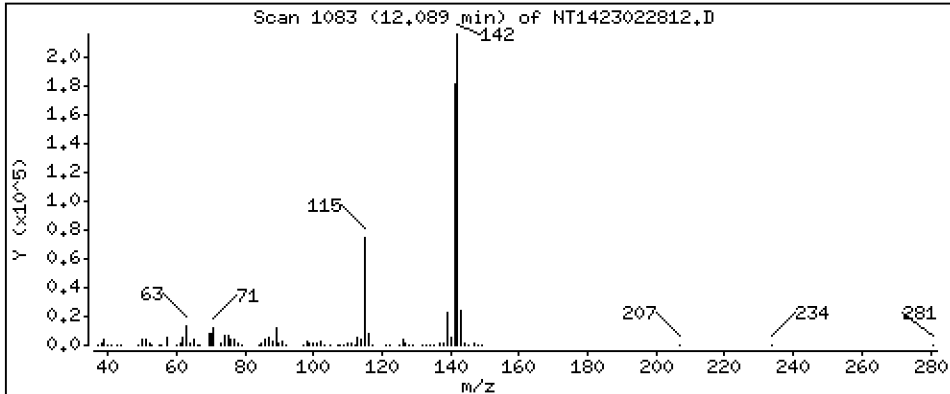
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 4,625 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

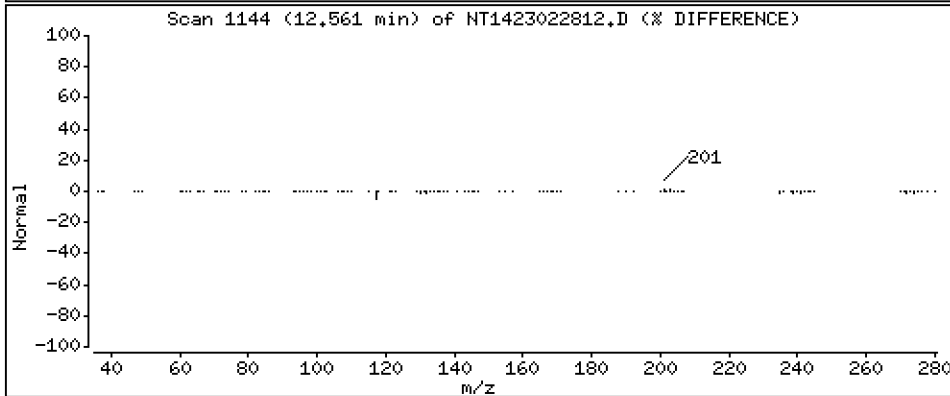
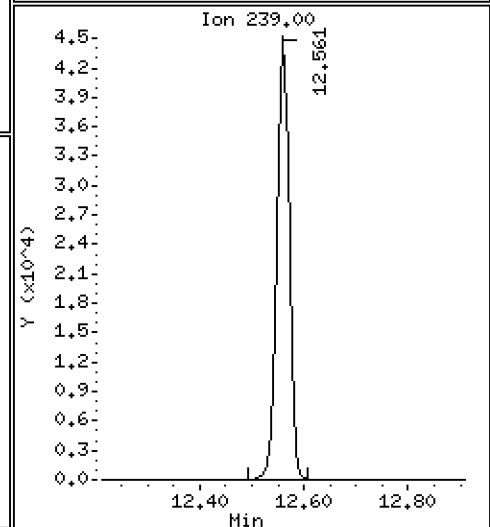
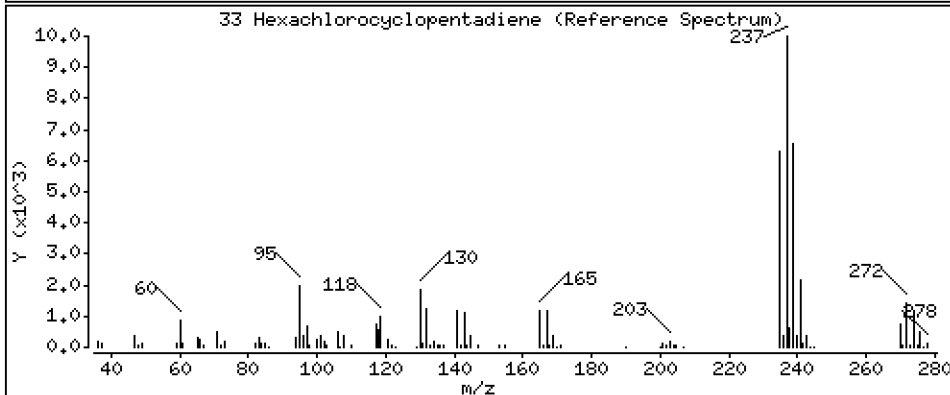
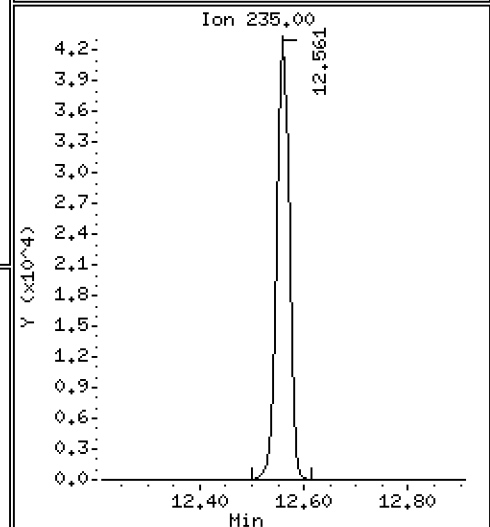
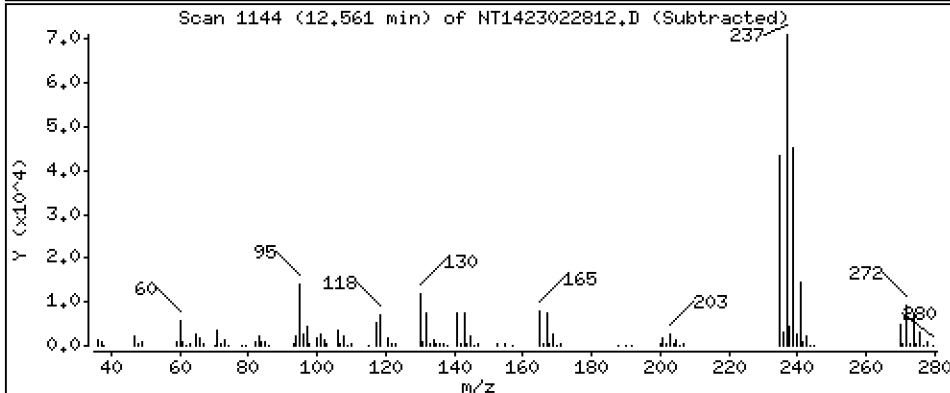
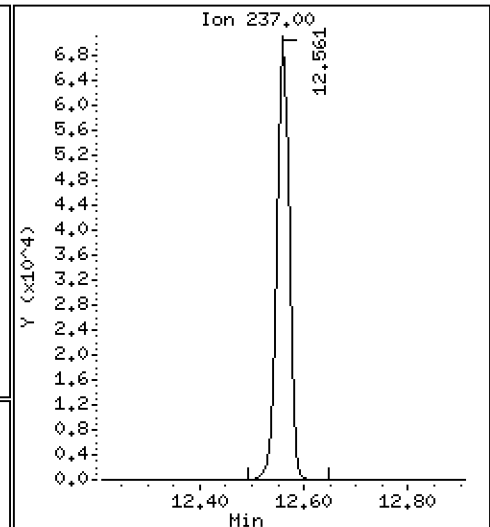
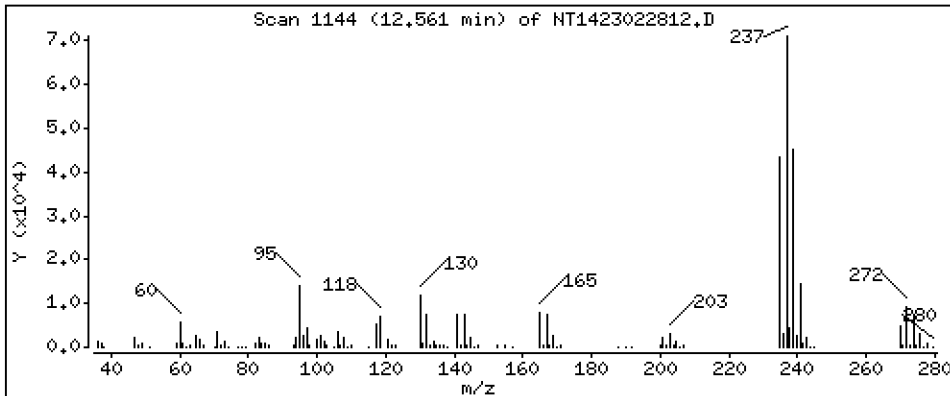
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

33 Hexachlorocyclopentadiene

Concentration: 4,533 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

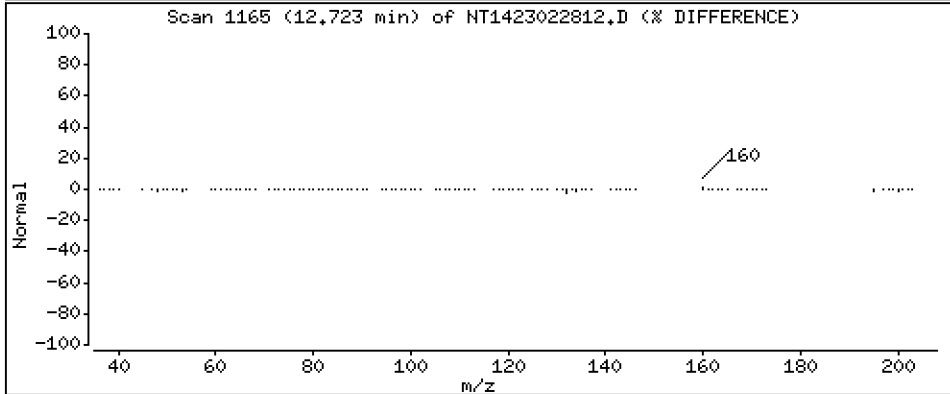
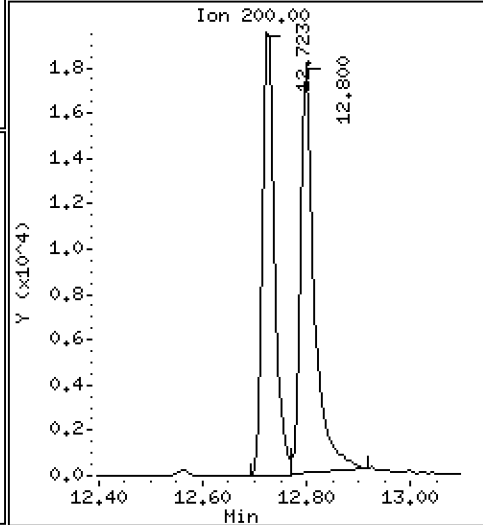
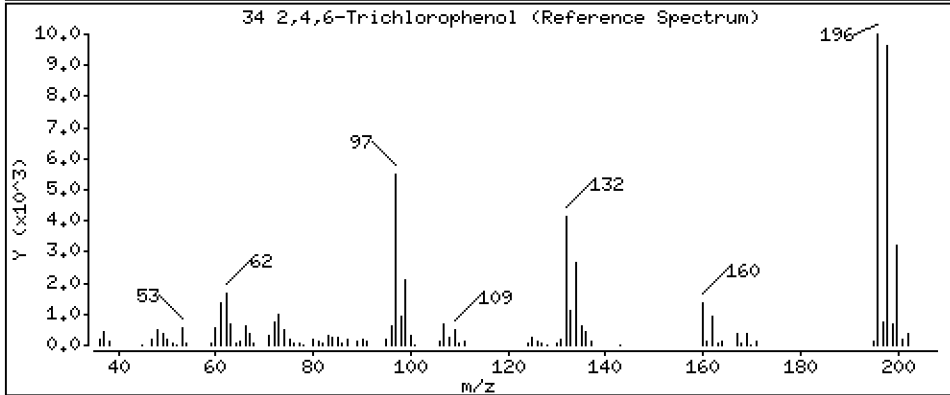
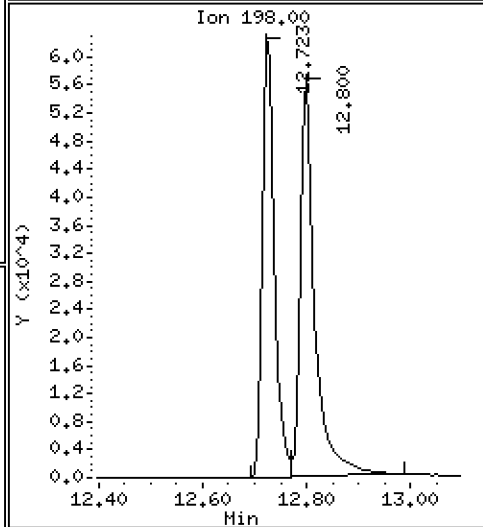
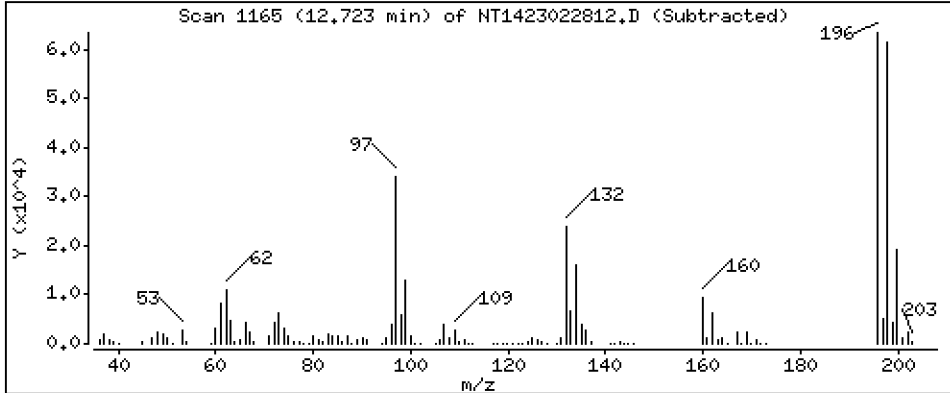
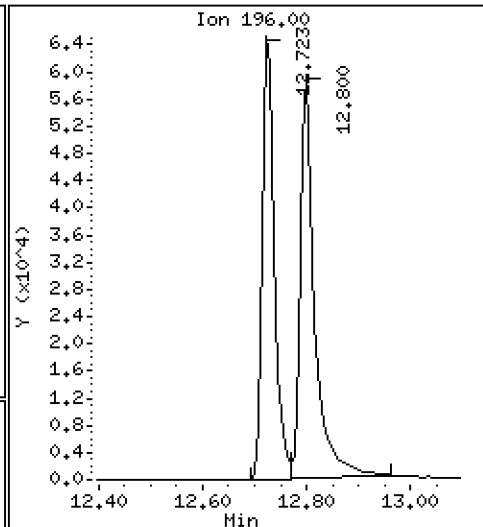
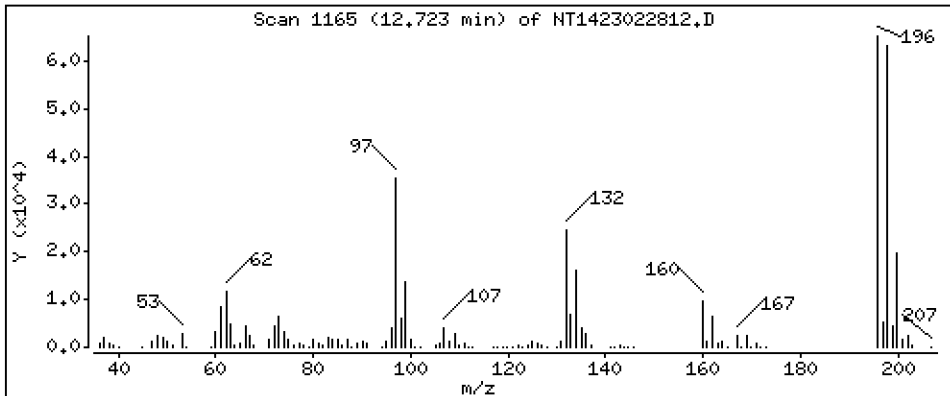
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

34 2,4,6-Trichlorophenol

Concentration: 4,788 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

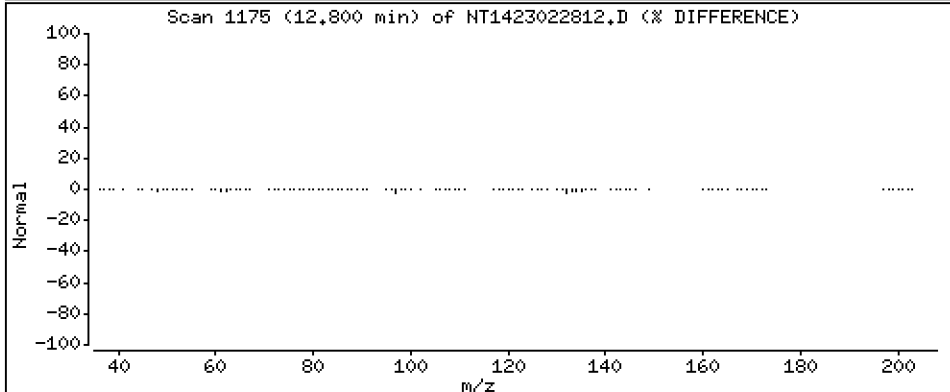
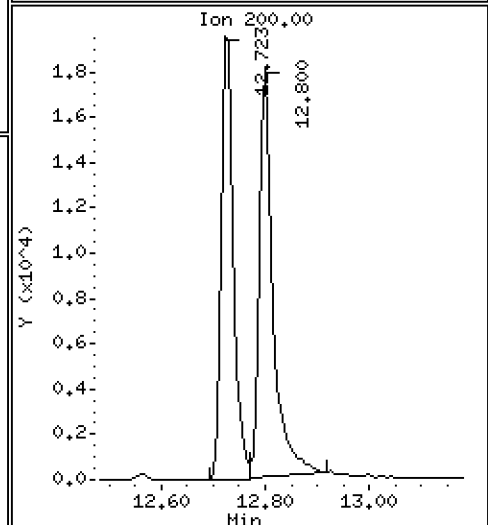
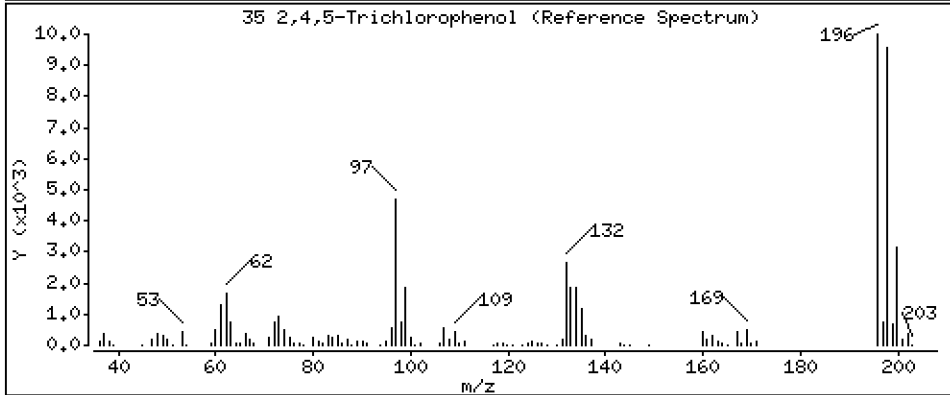
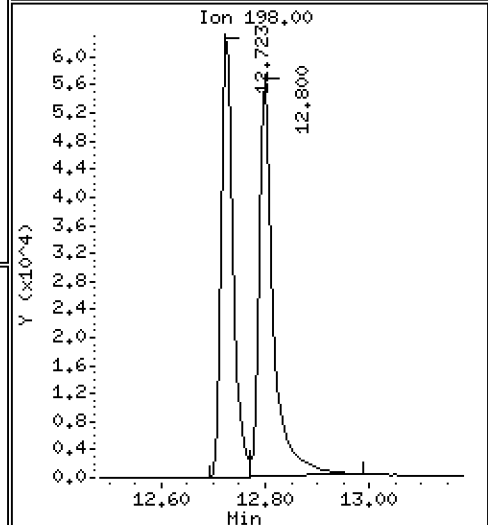
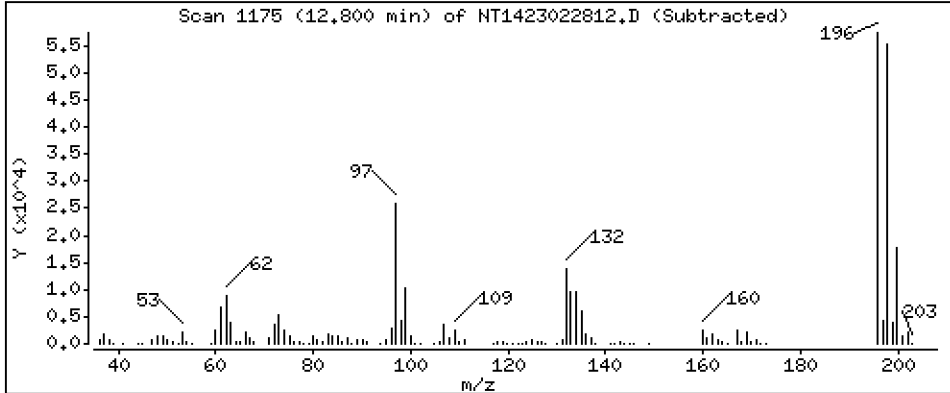
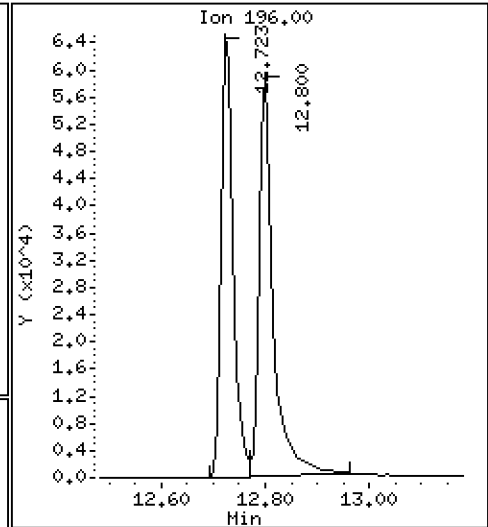
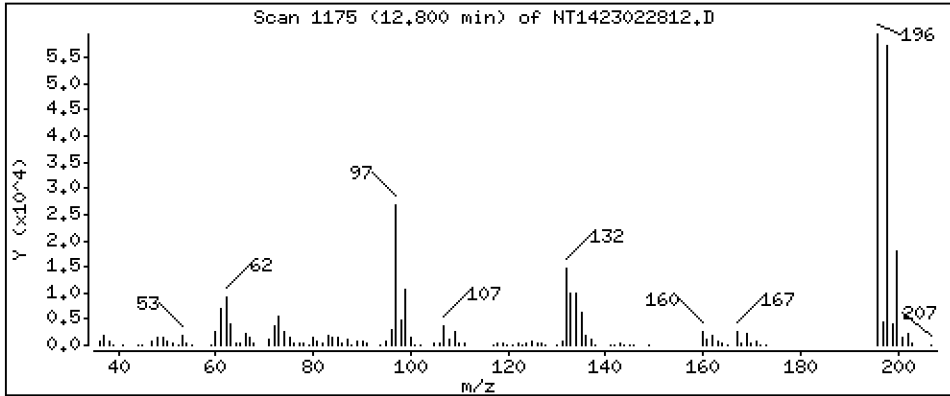
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

35 2,4,5-Trichlorophenol

Concentration: 4,669 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

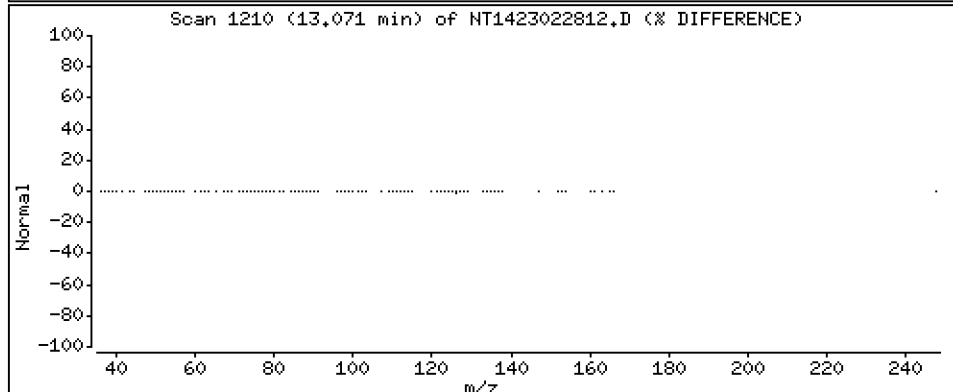
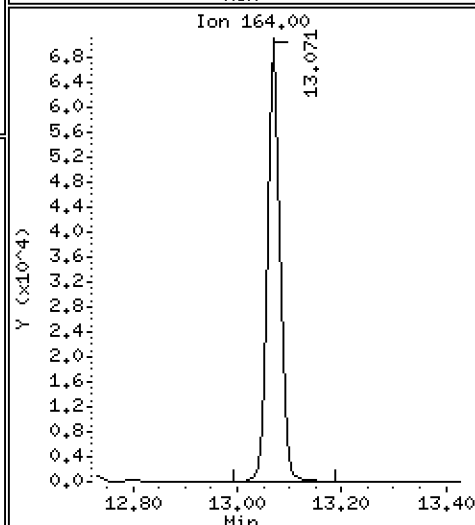
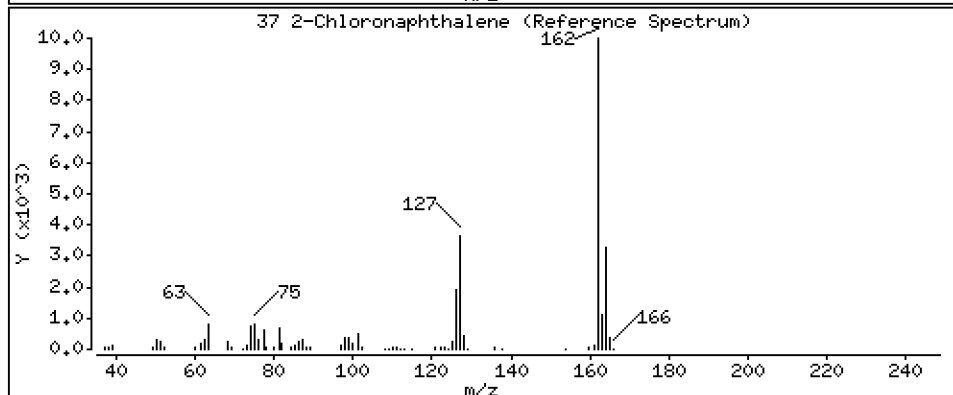
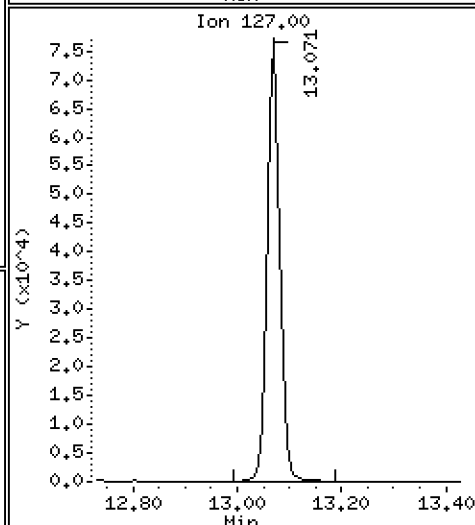
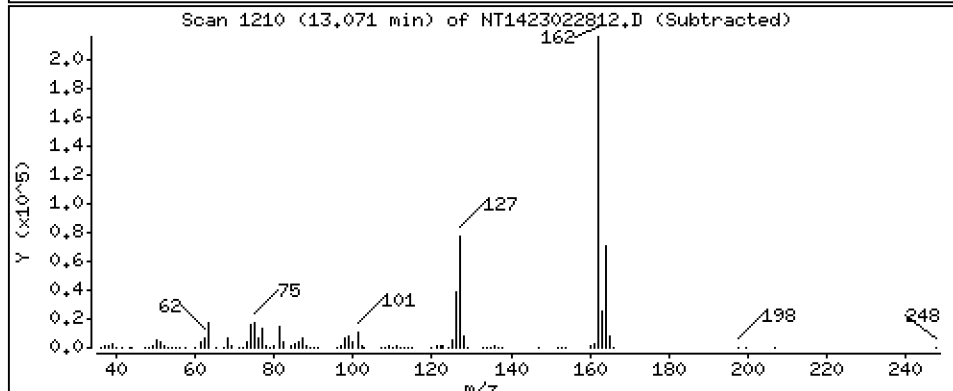
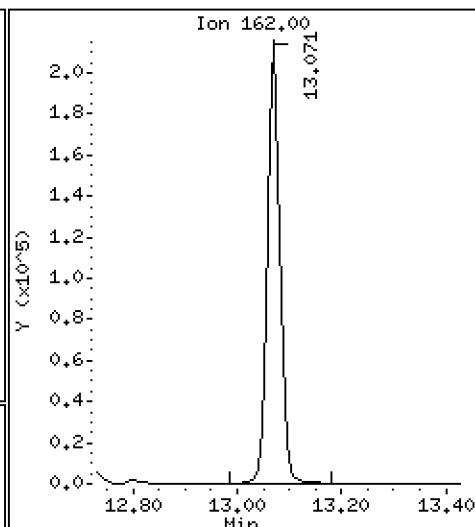
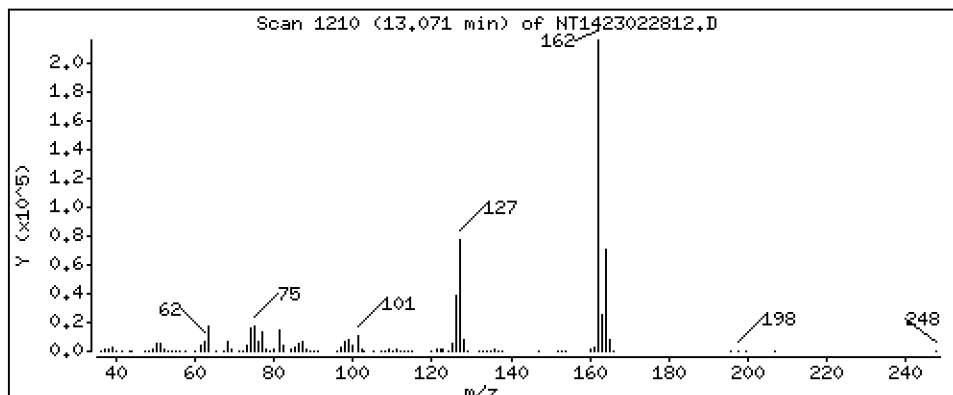
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

37 2-Chloronaphthalene

Concentration: 4,911 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

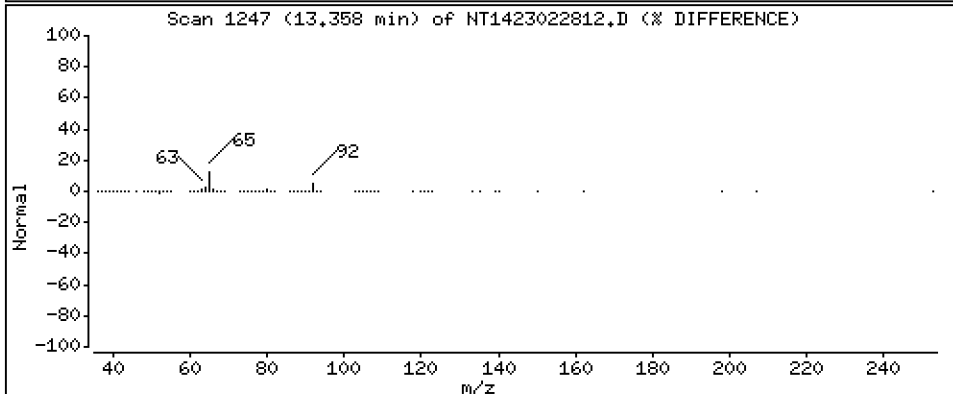
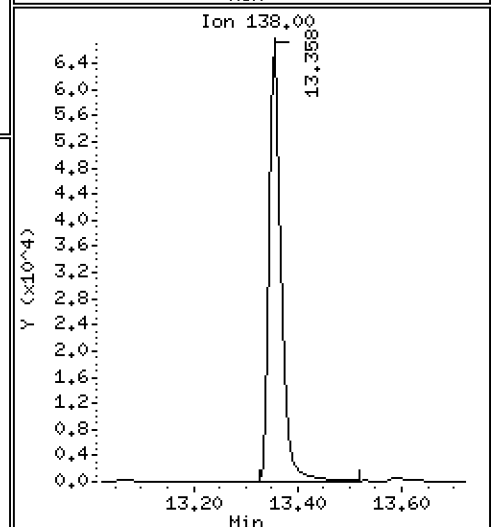
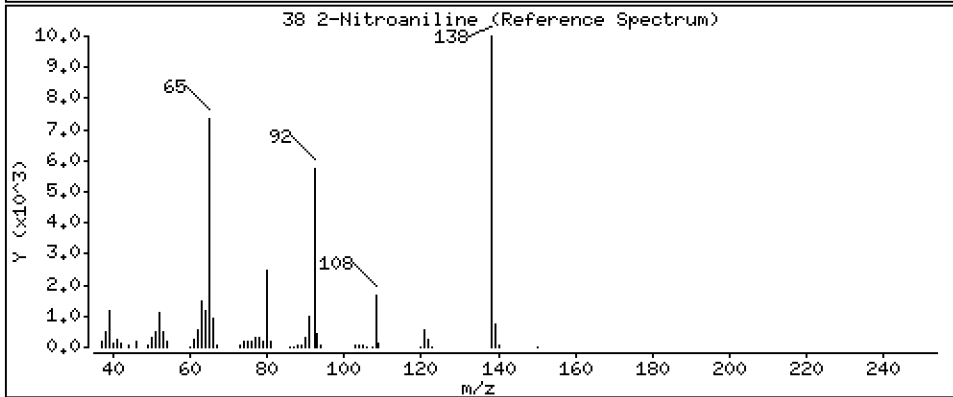
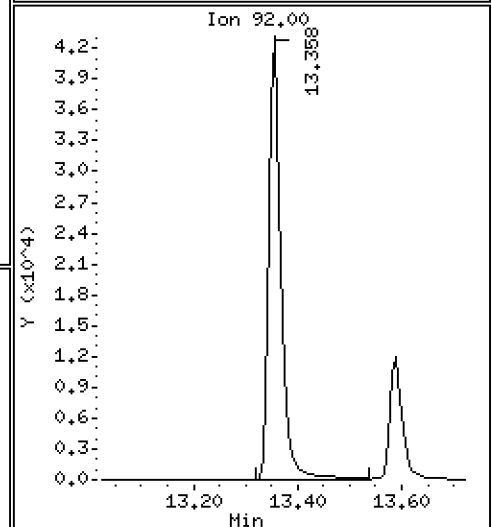
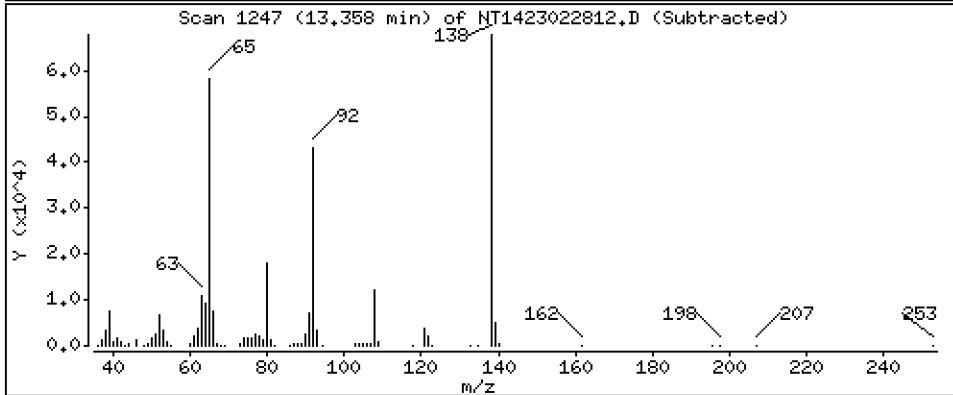
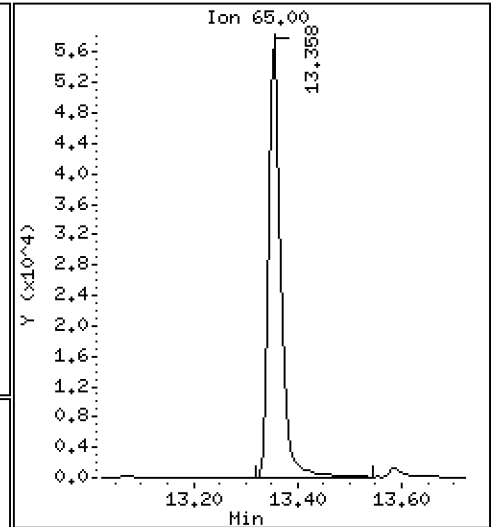
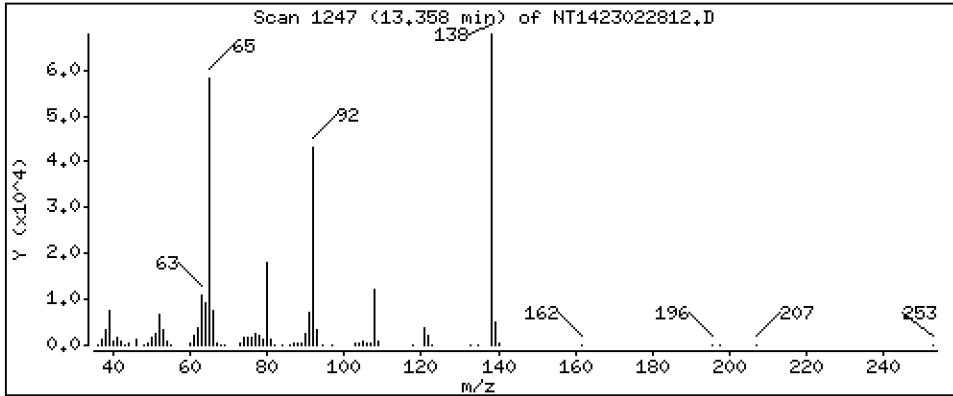
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

38 2-Nitroaniline

Concentration: 4,980 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

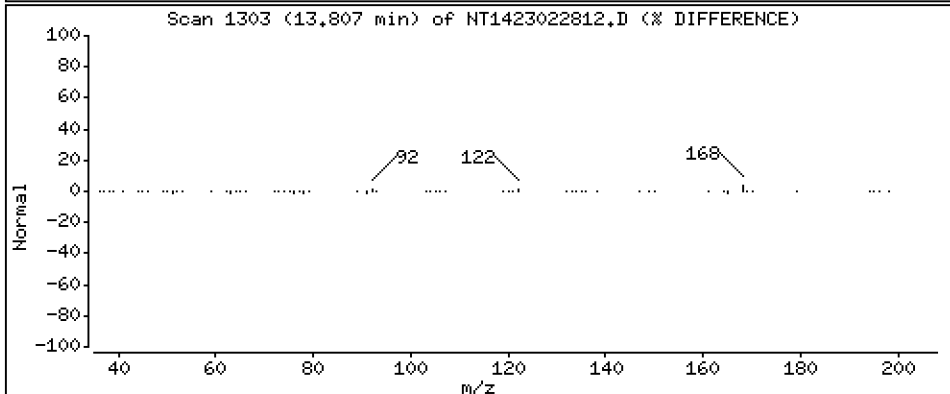
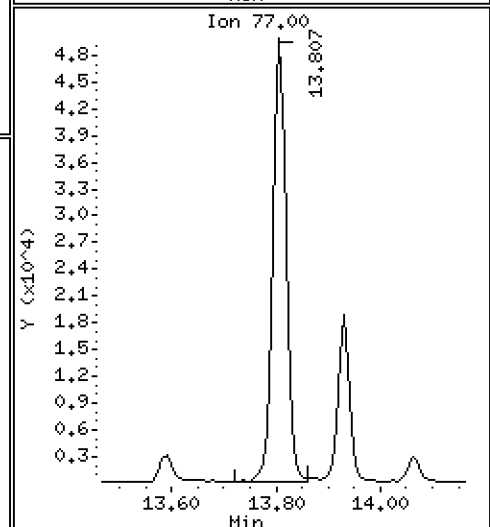
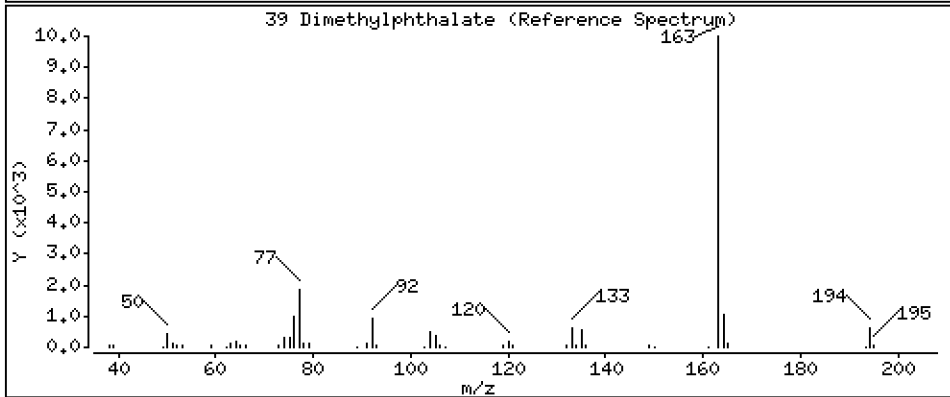
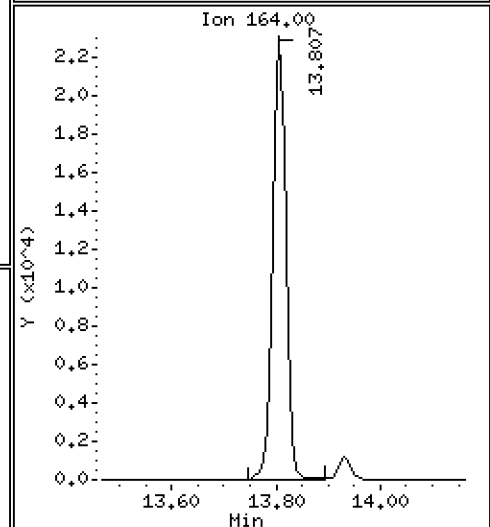
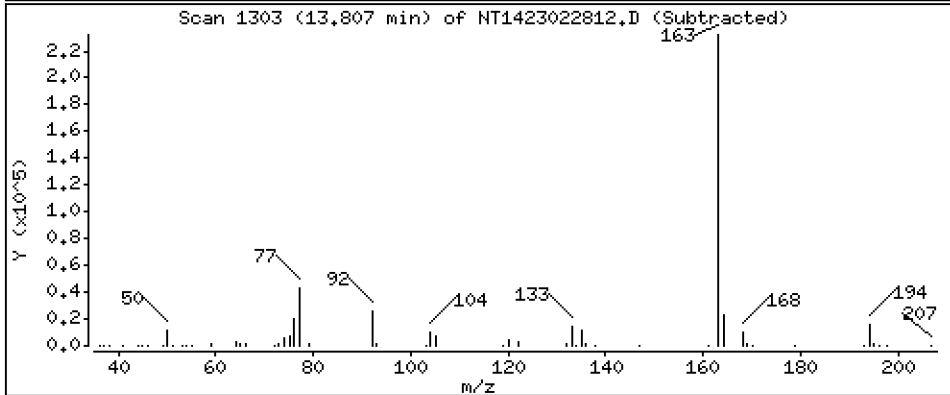
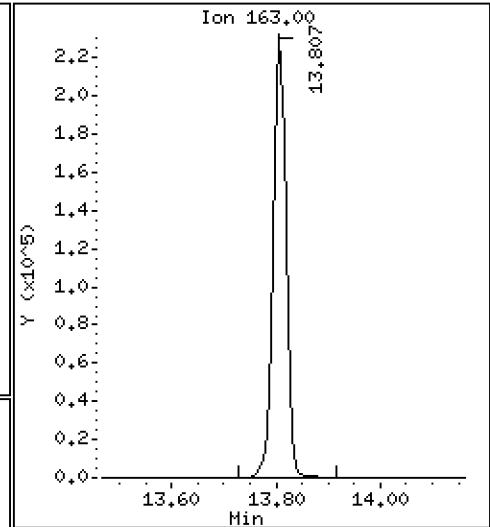
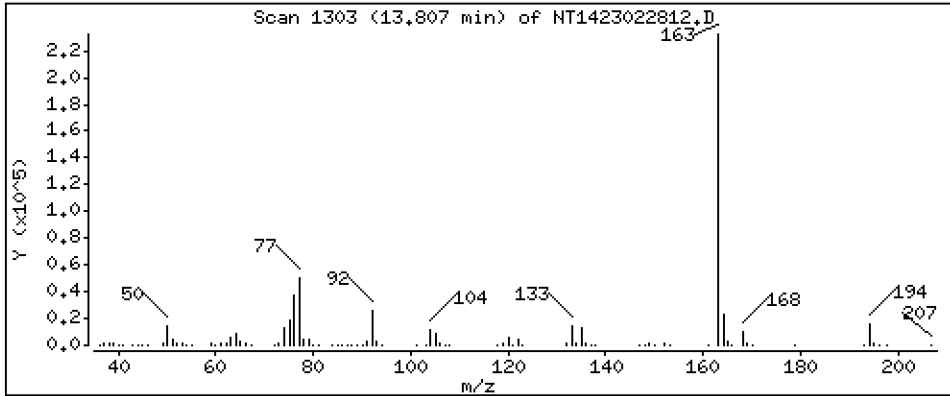
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 5,206 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

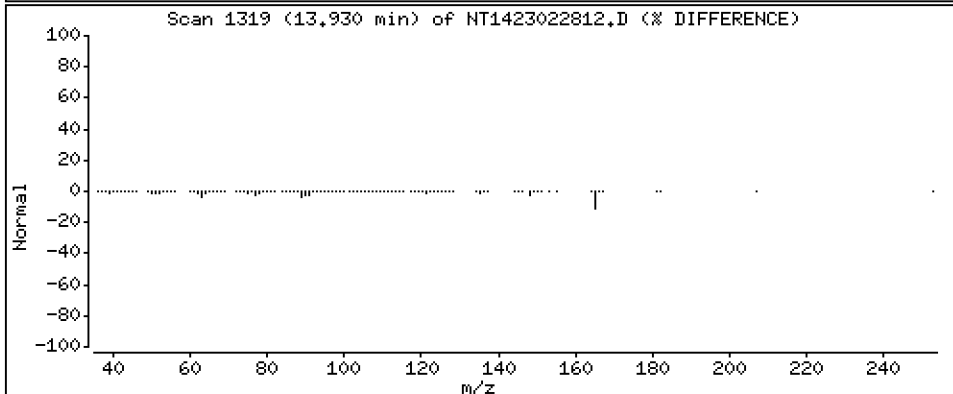
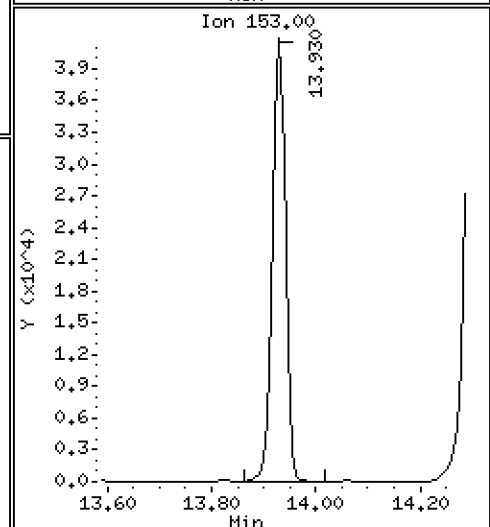
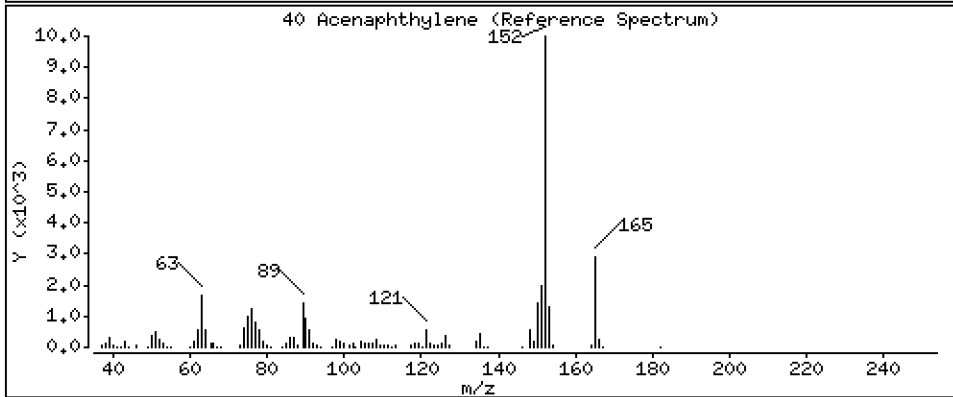
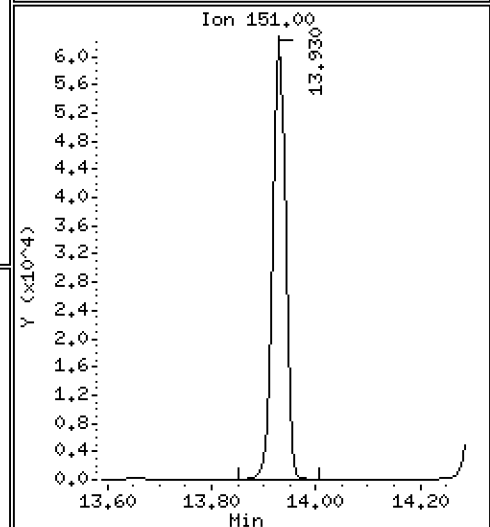
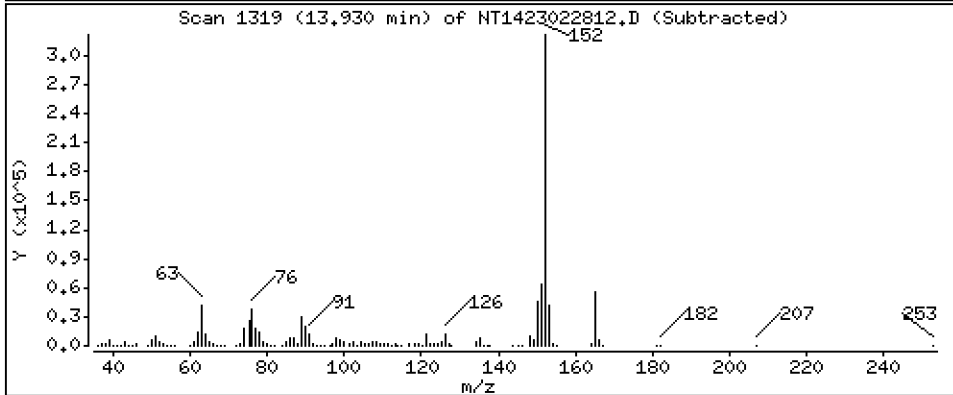
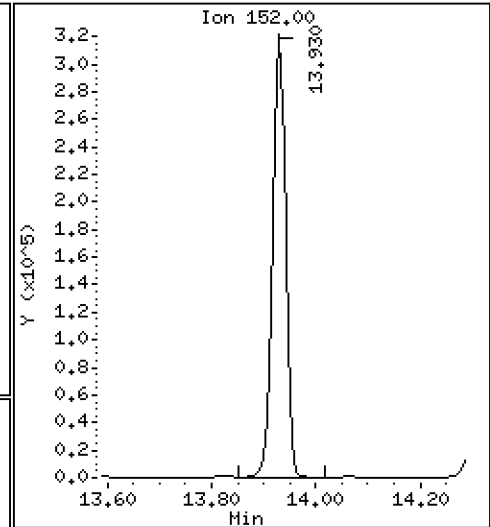
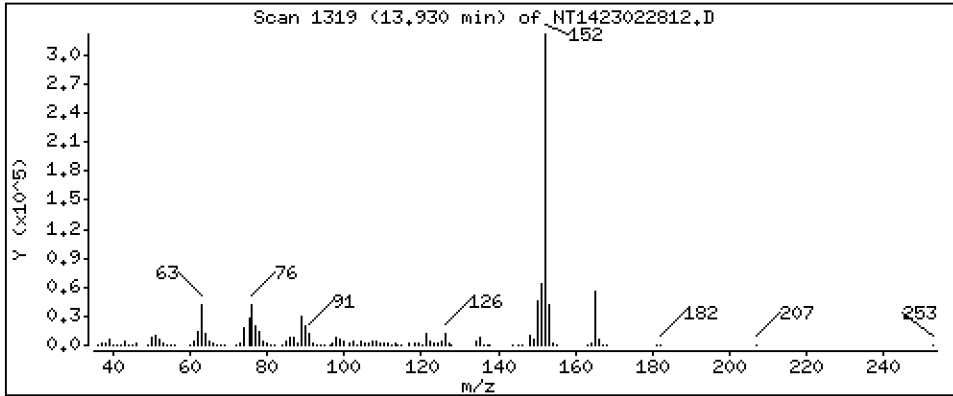
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 4,975 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

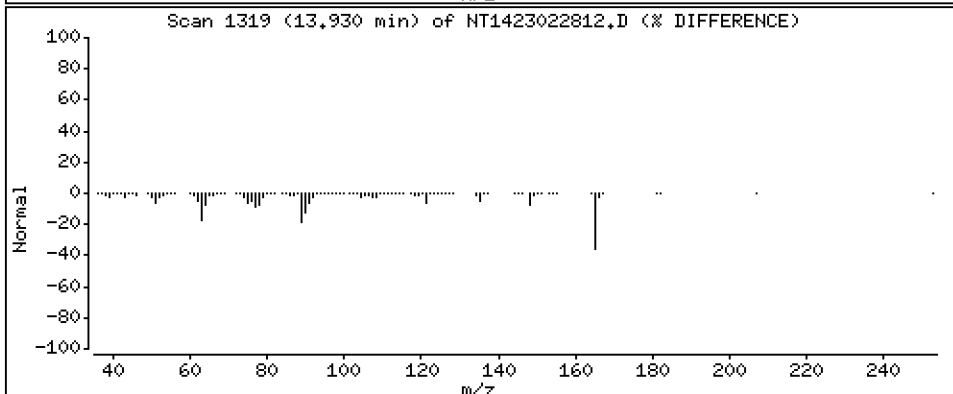
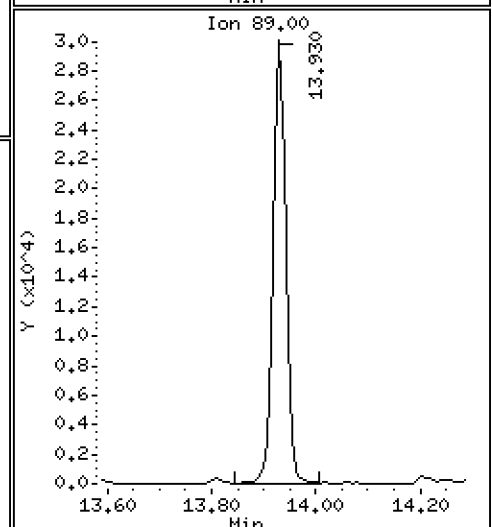
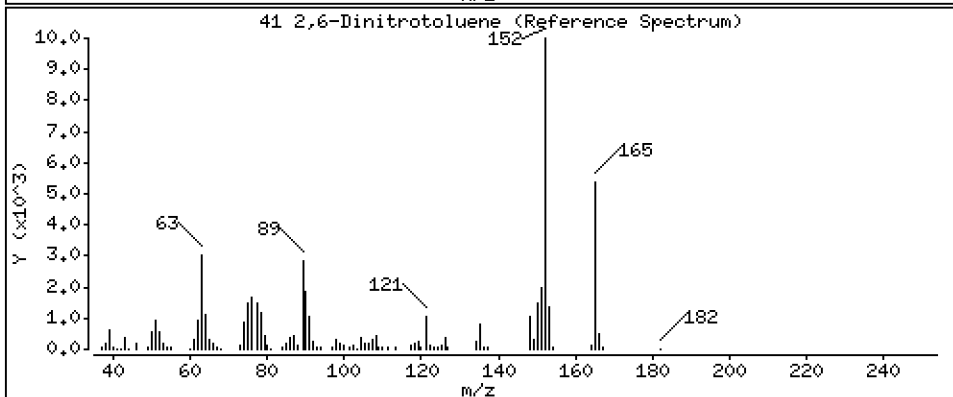
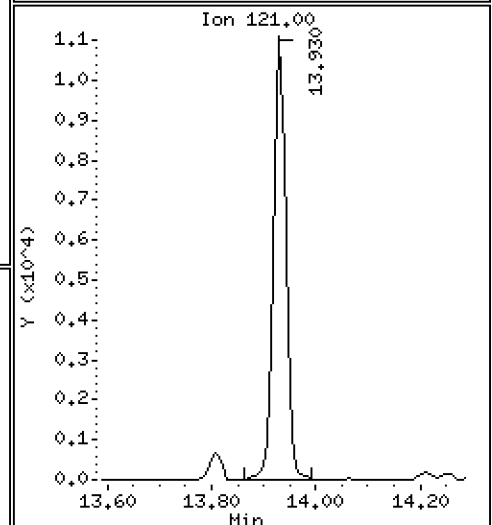
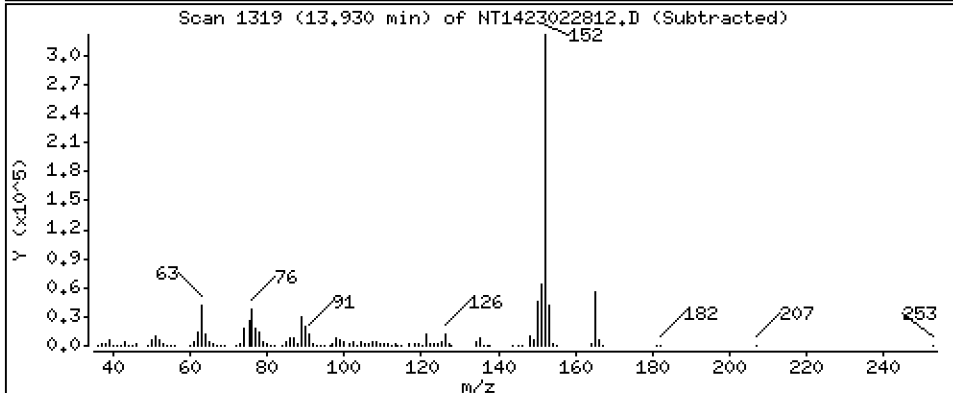
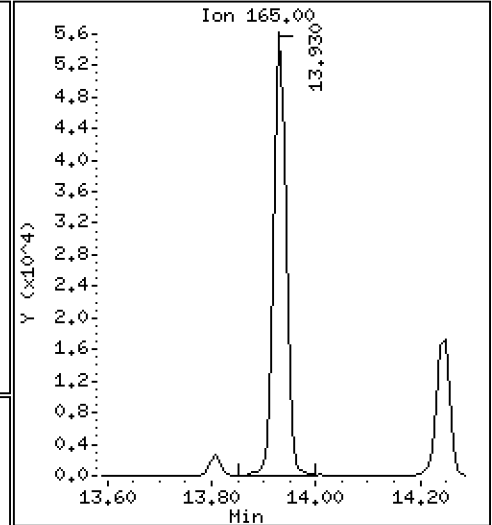
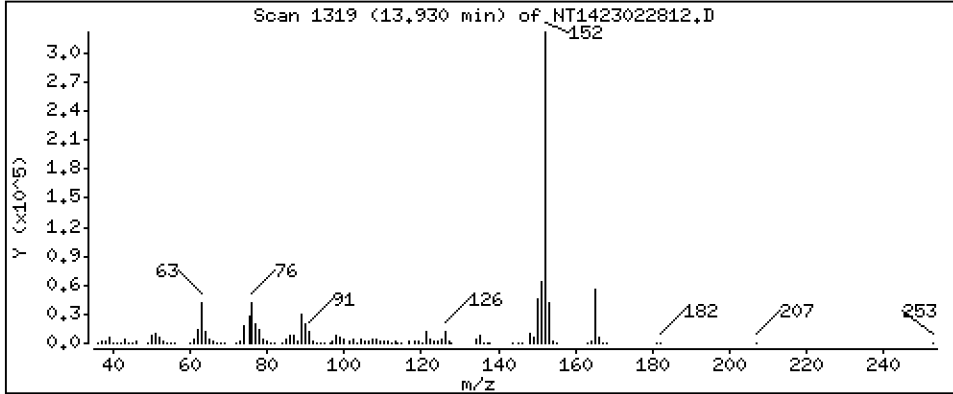
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

41 2,6-Dinitrotoluene

Concentration: 5,227 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

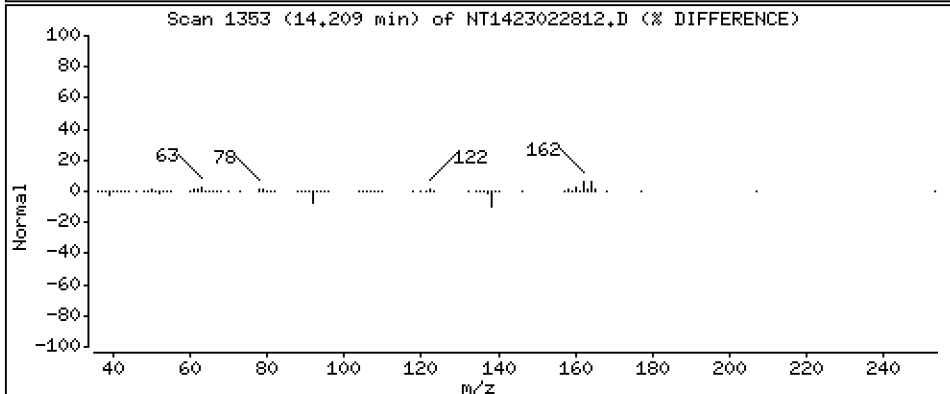
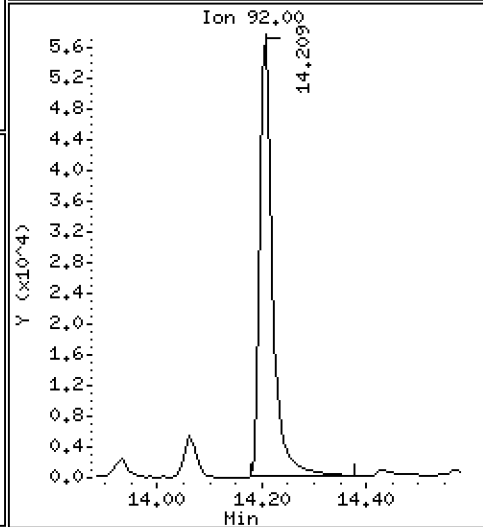
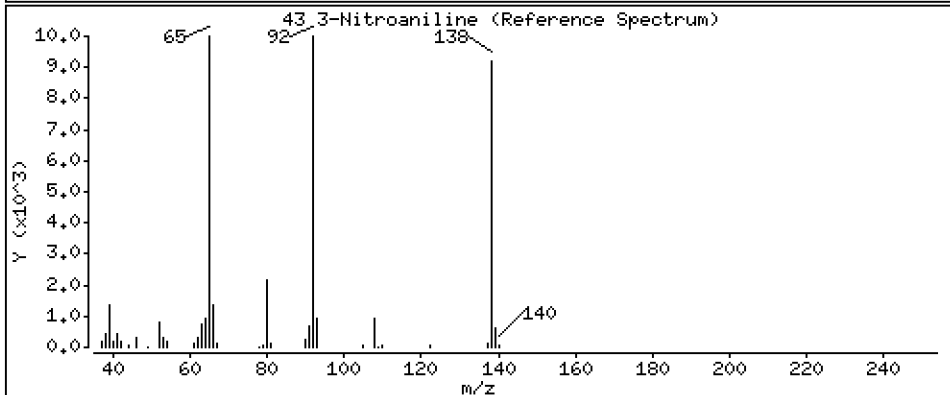
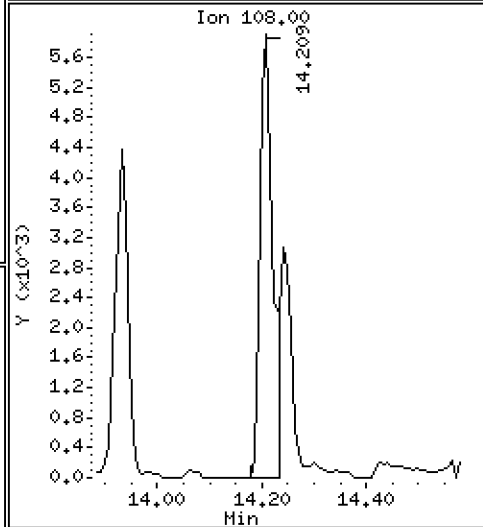
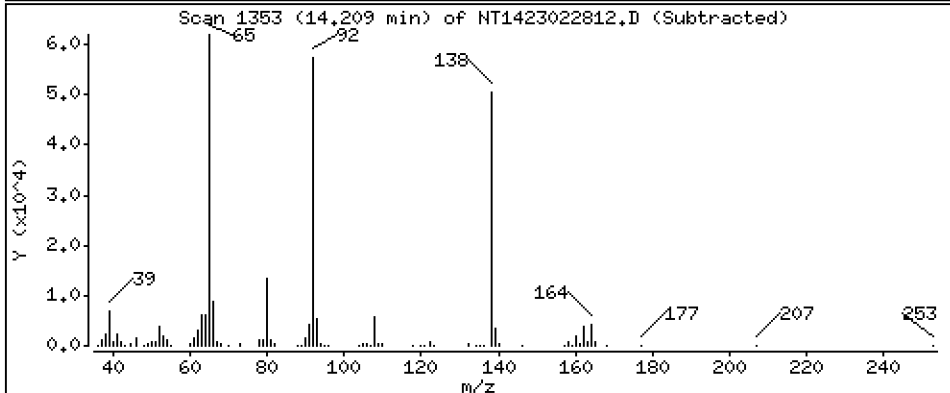
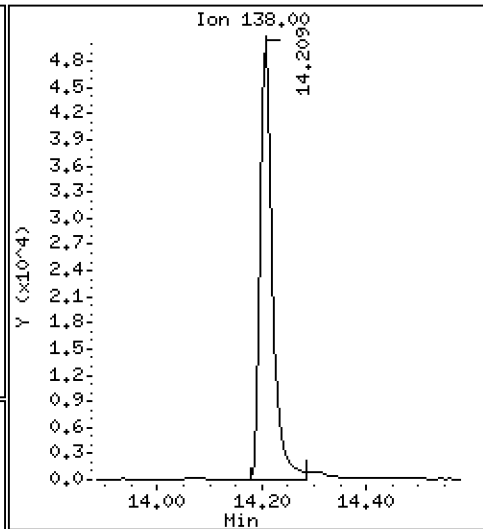
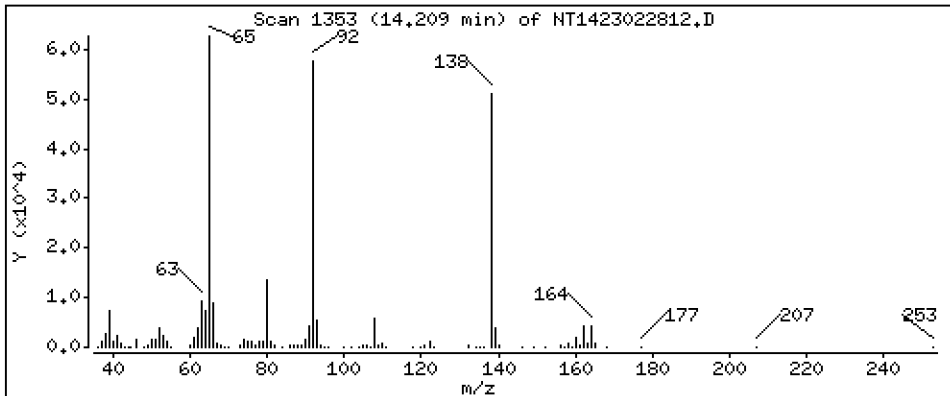
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

43 3-Nitroaniline

Concentration: 4,869 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

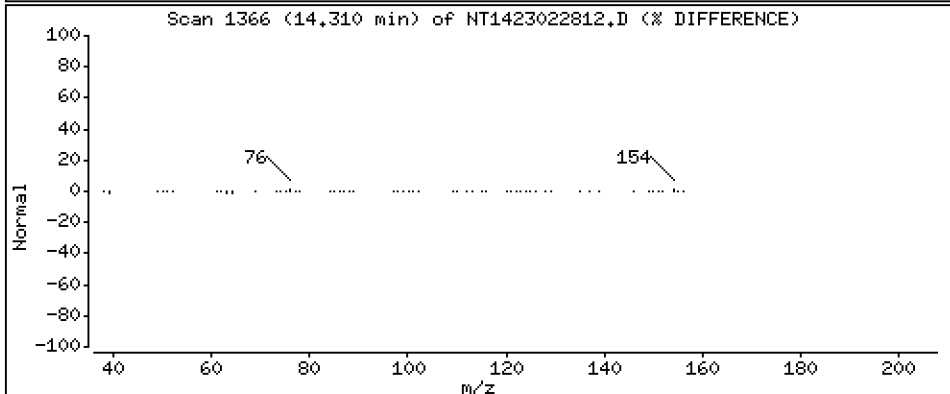
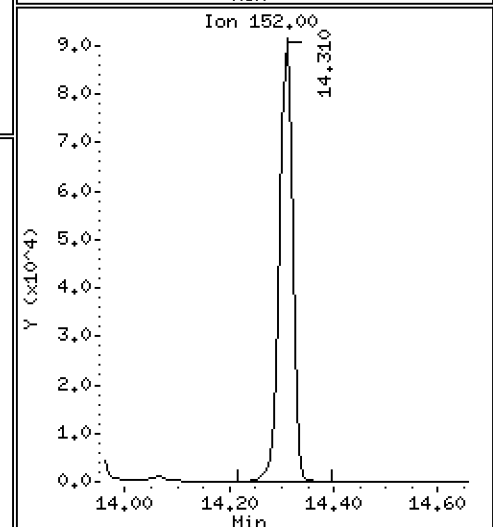
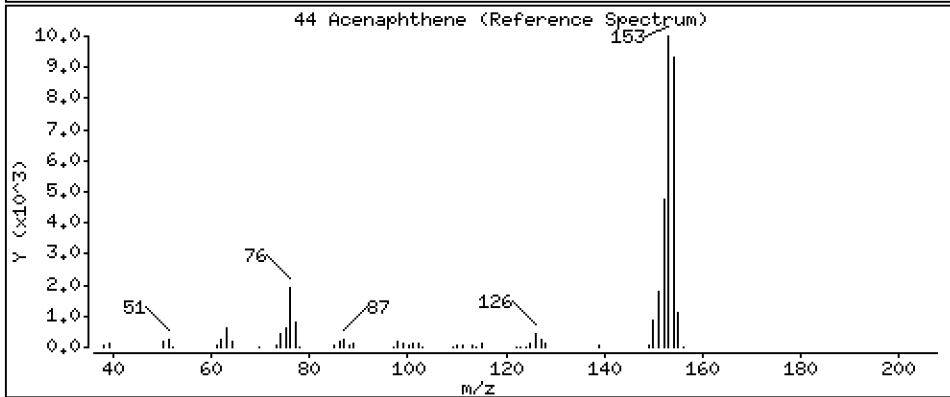
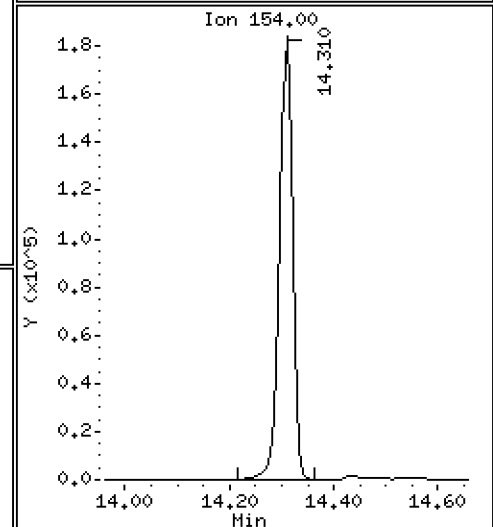
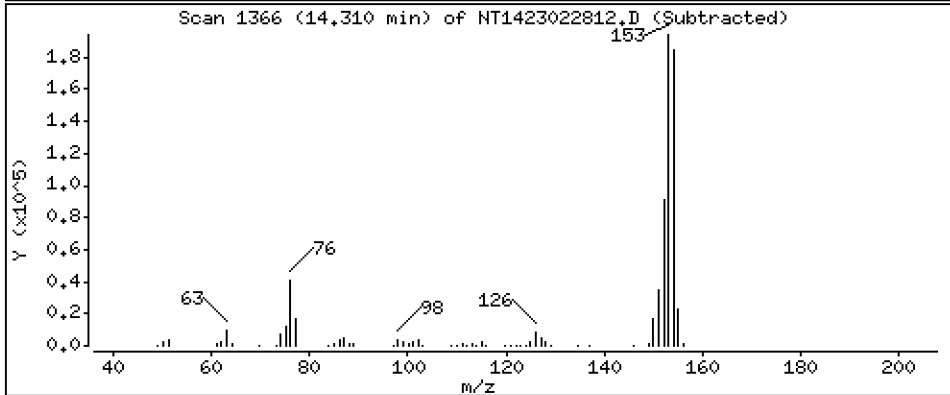
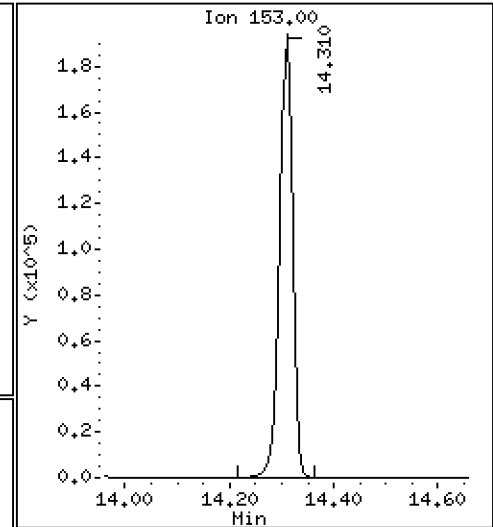
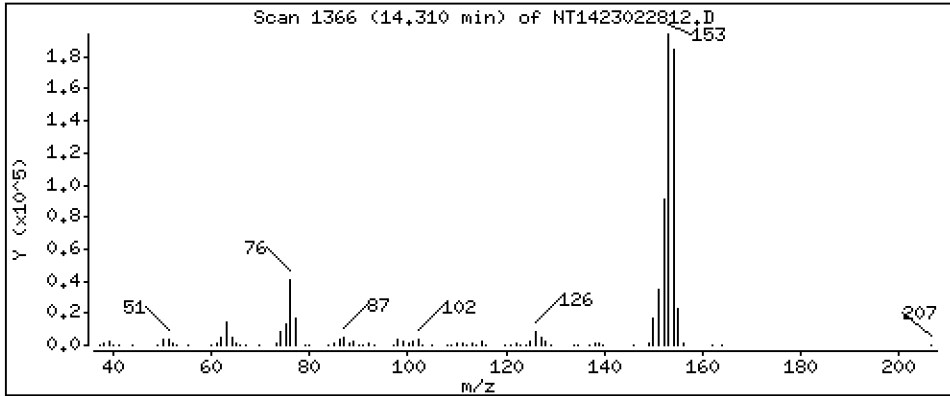
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 4,767 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

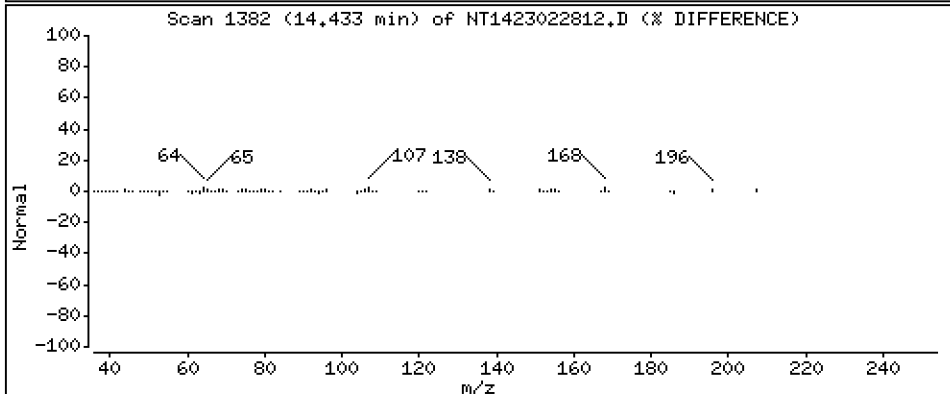
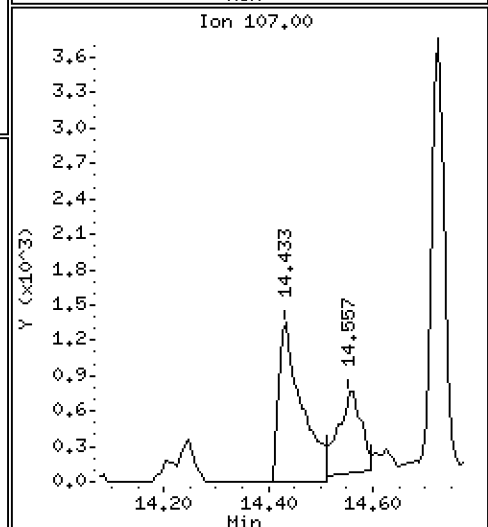
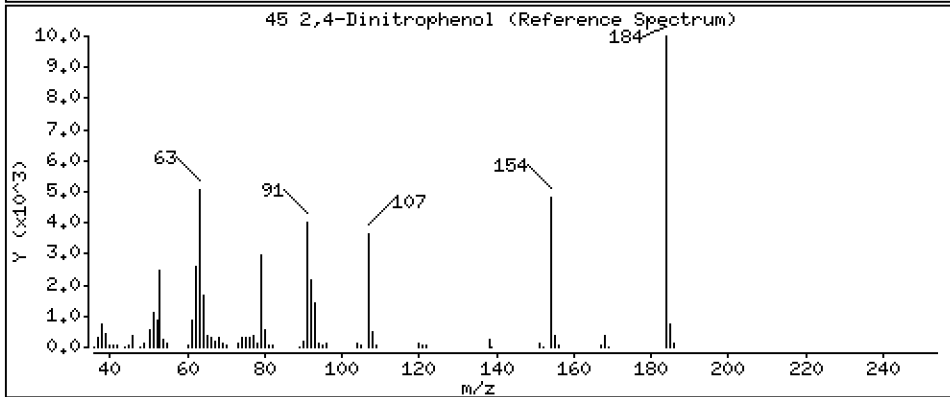
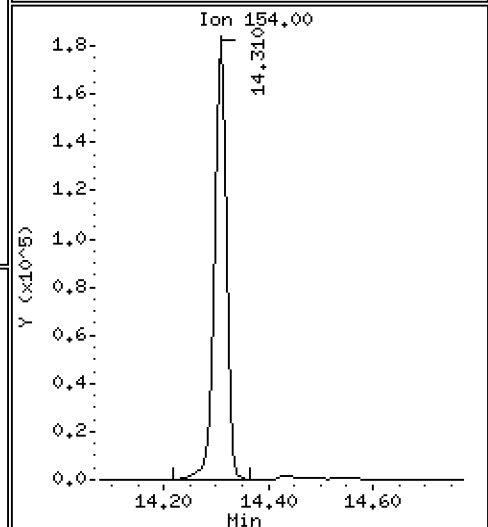
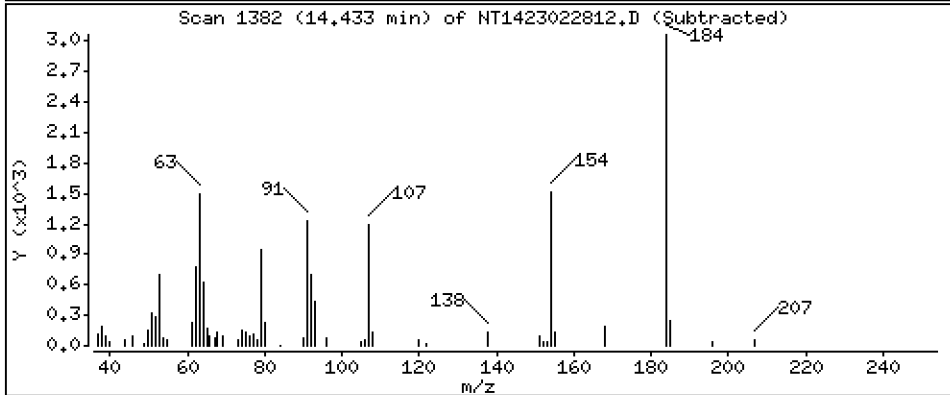
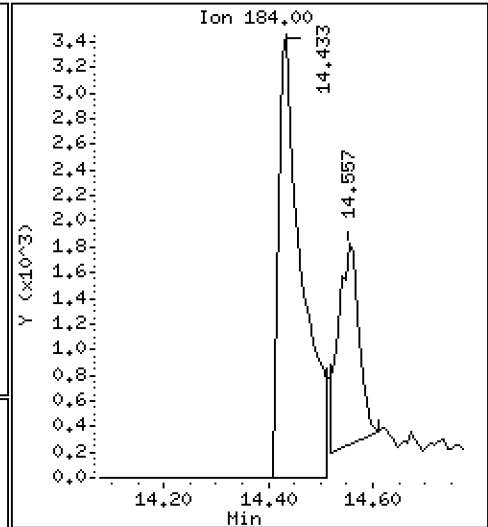
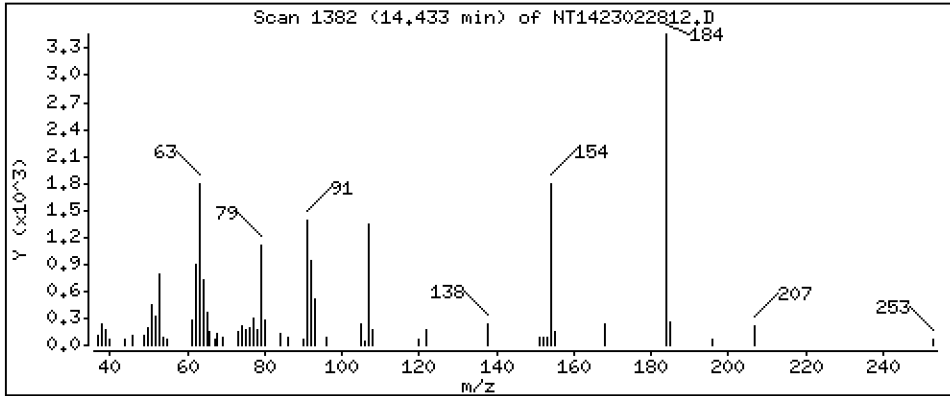
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

45 2,4-Dinitrophenol

Concentration: 0.9807 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

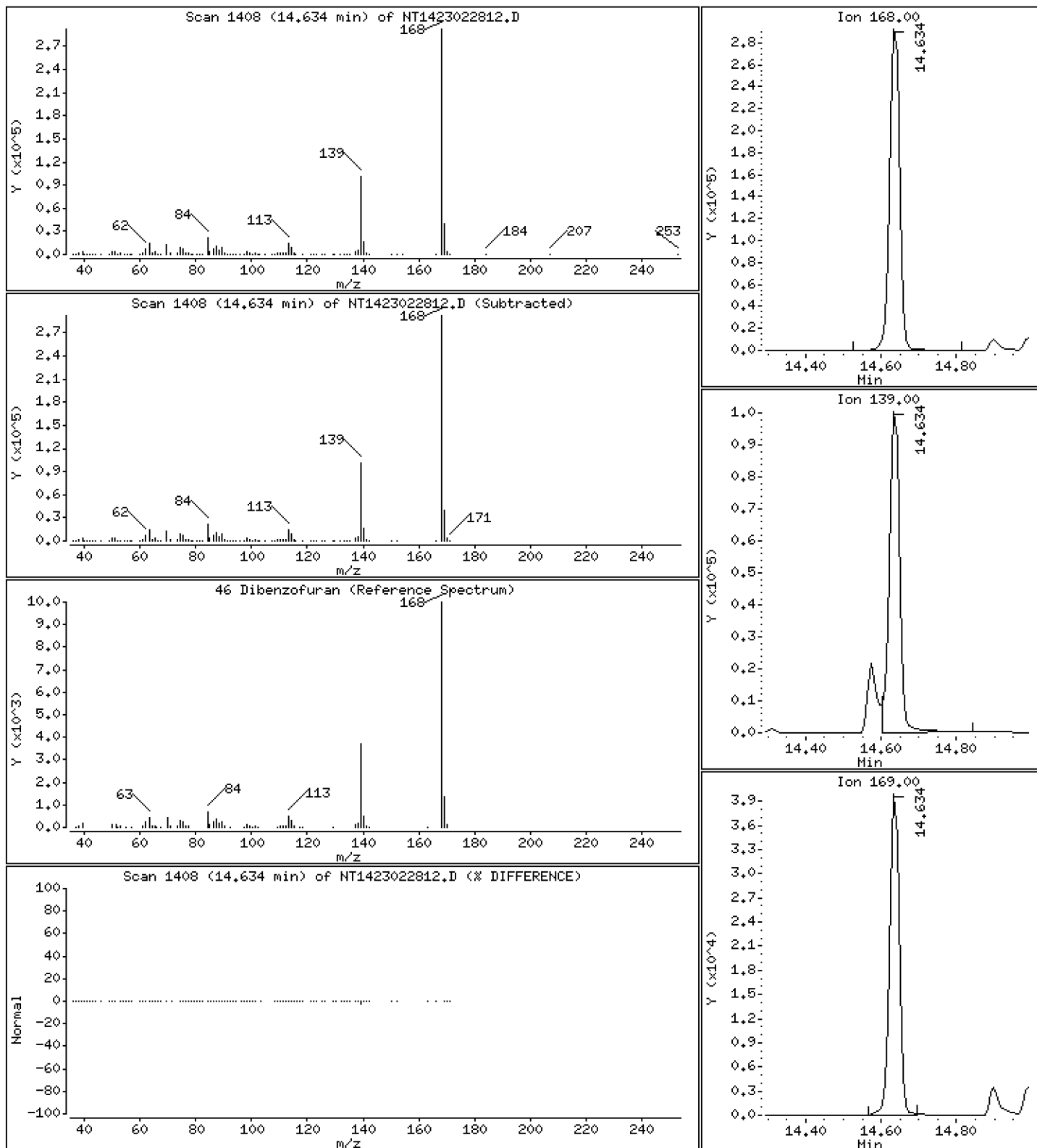
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 4,718 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

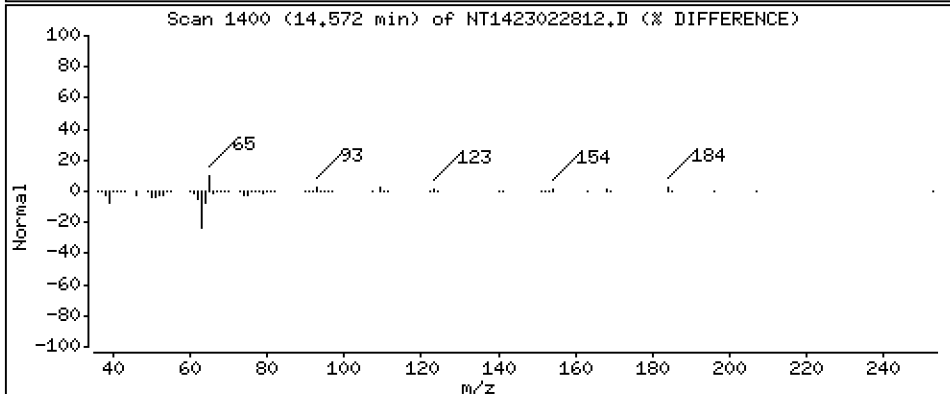
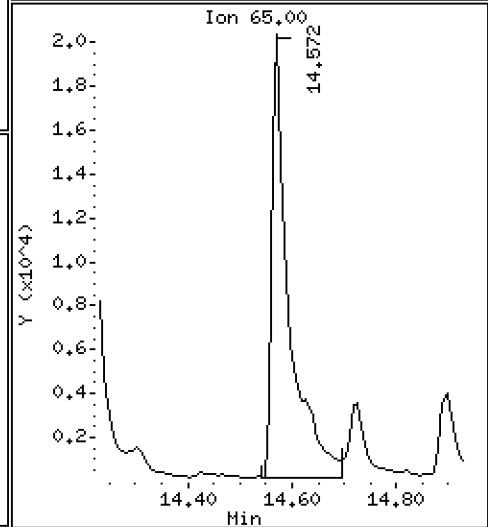
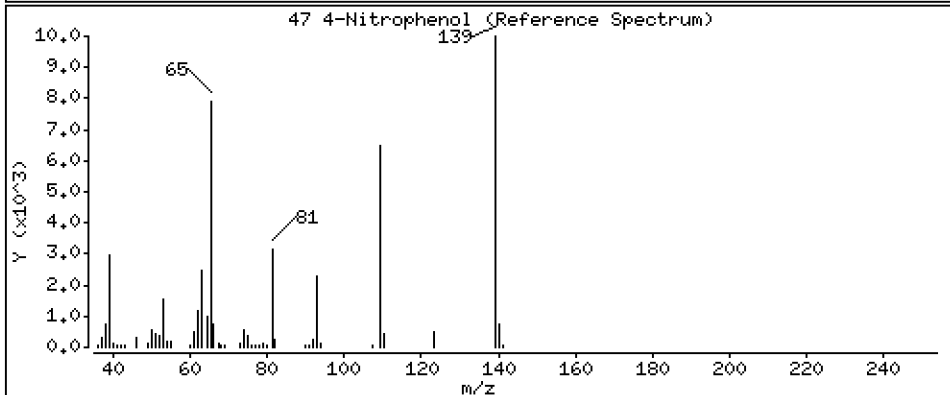
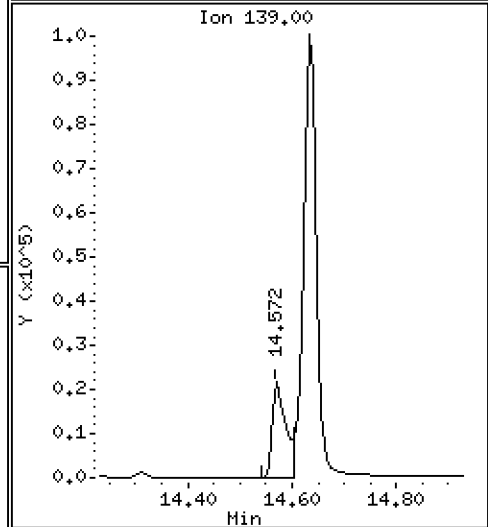
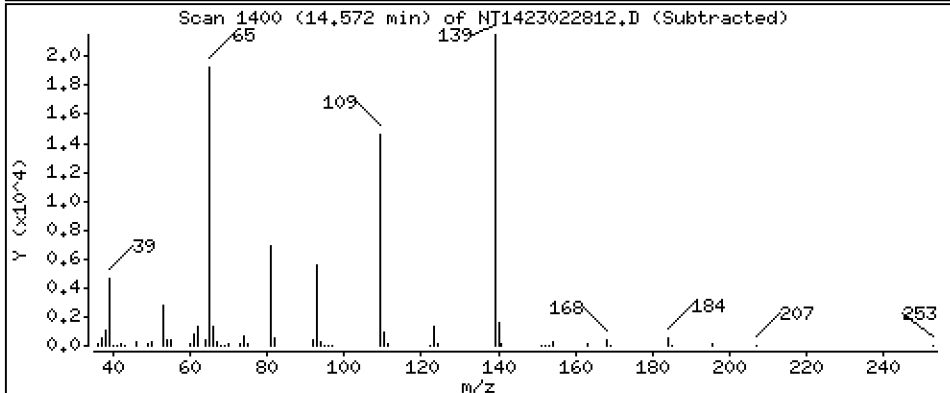
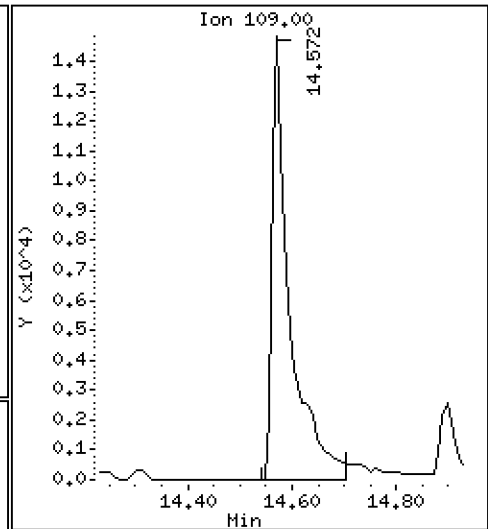
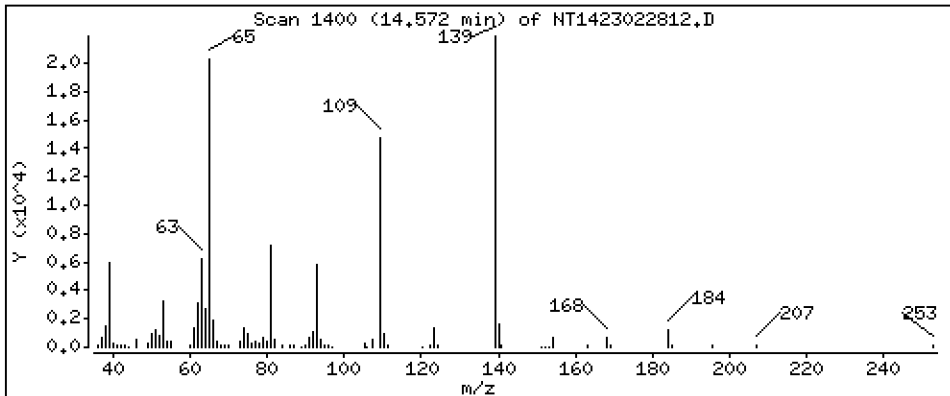
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

47 4-Nitrophenol

Concentration: 3,934 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

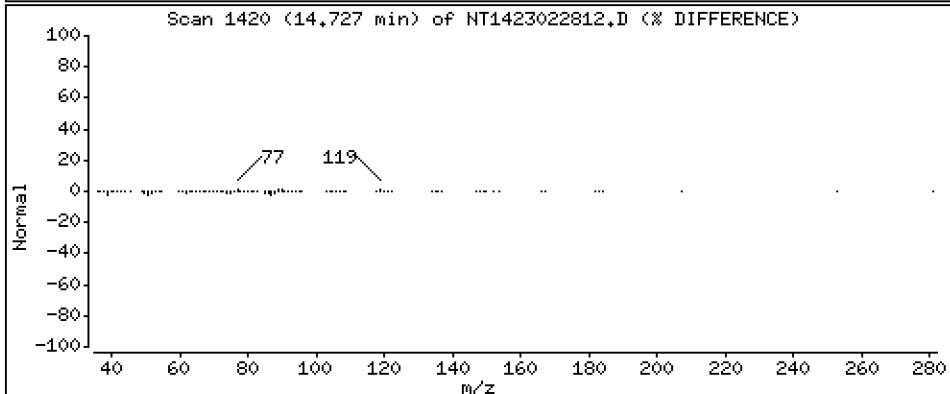
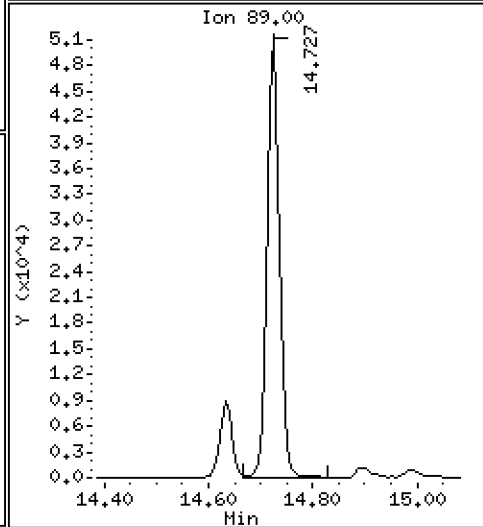
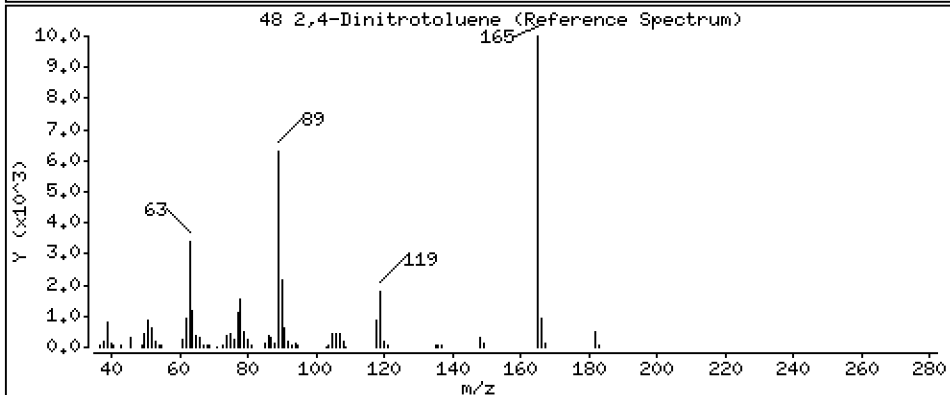
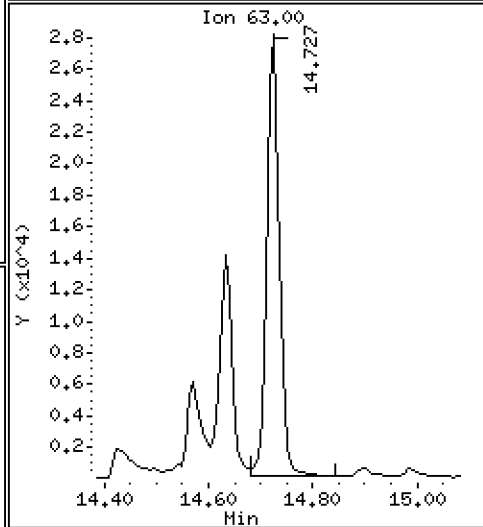
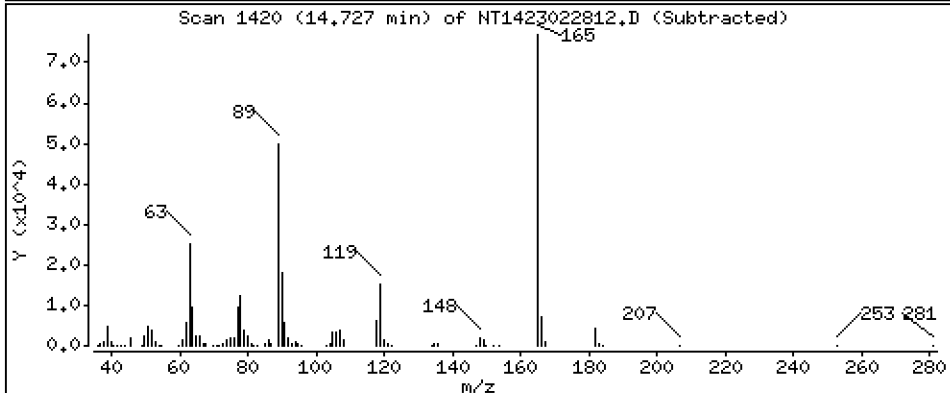
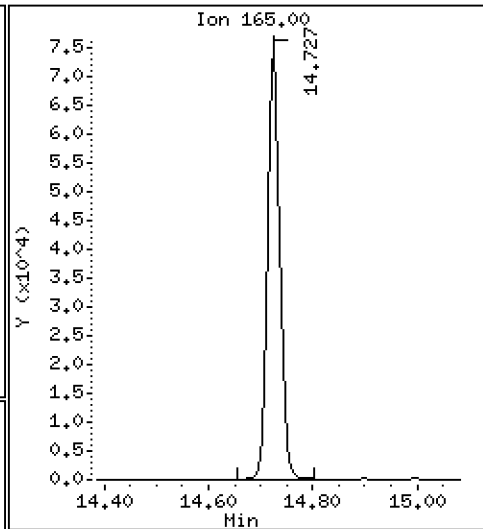
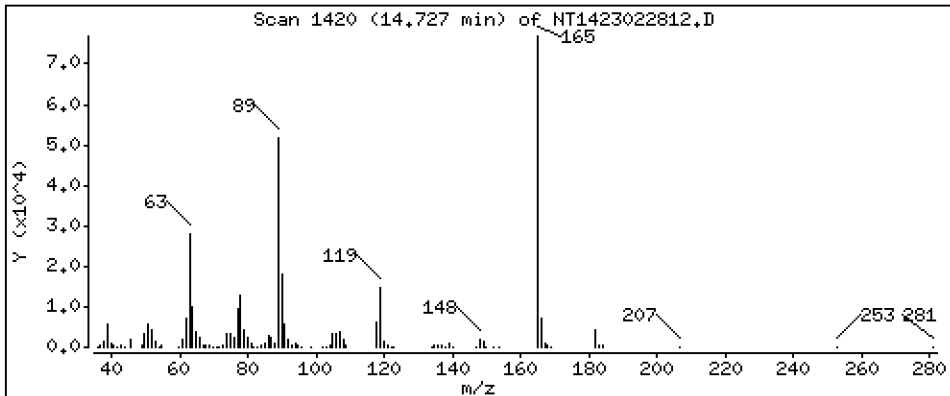
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

48 2,4-Dinitrotoluene

Concentration: 4,941 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

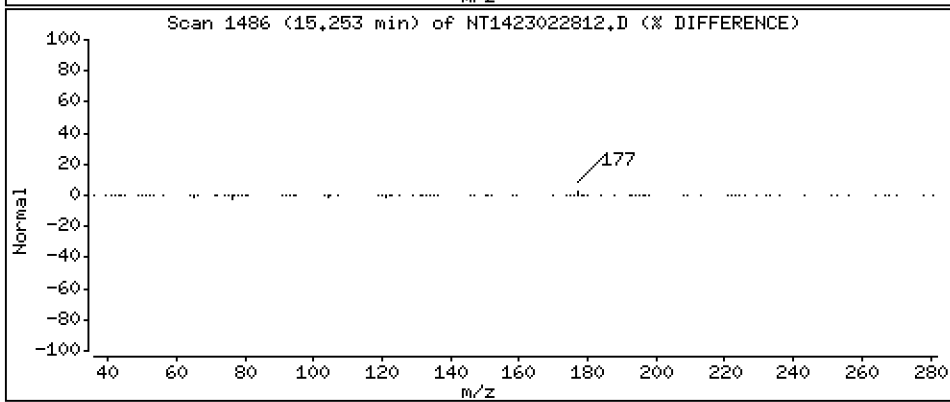
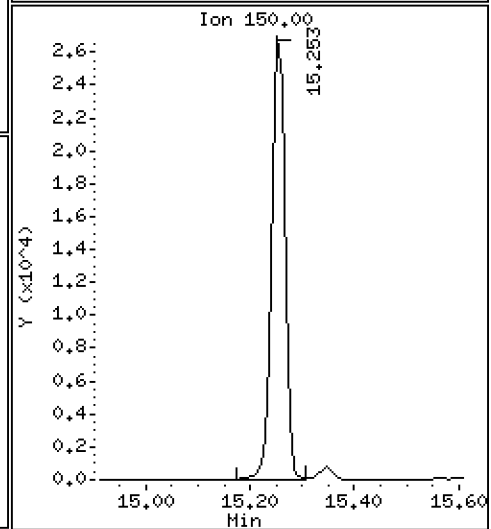
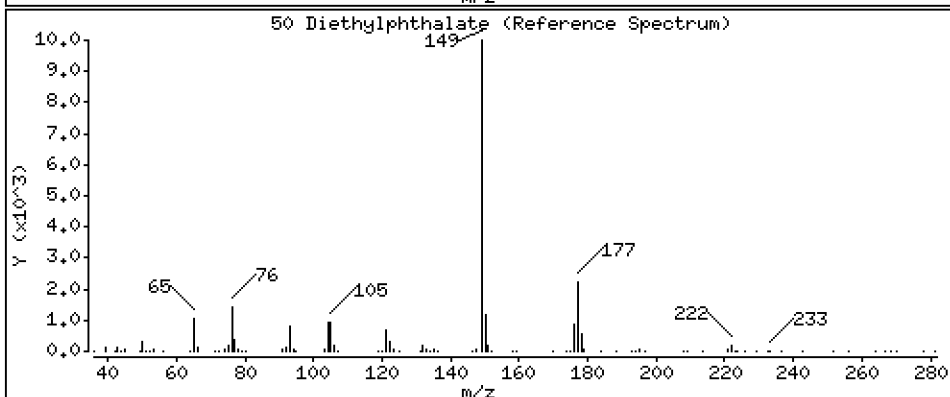
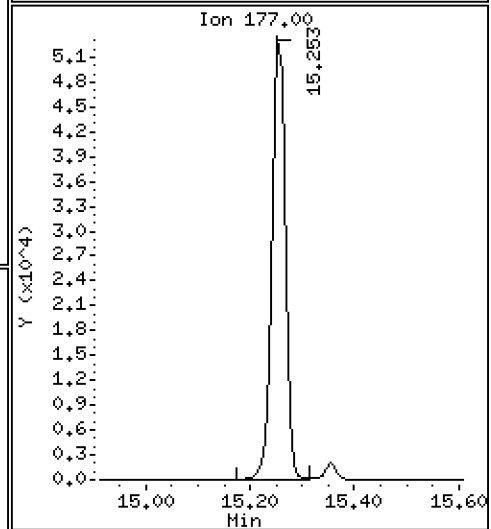
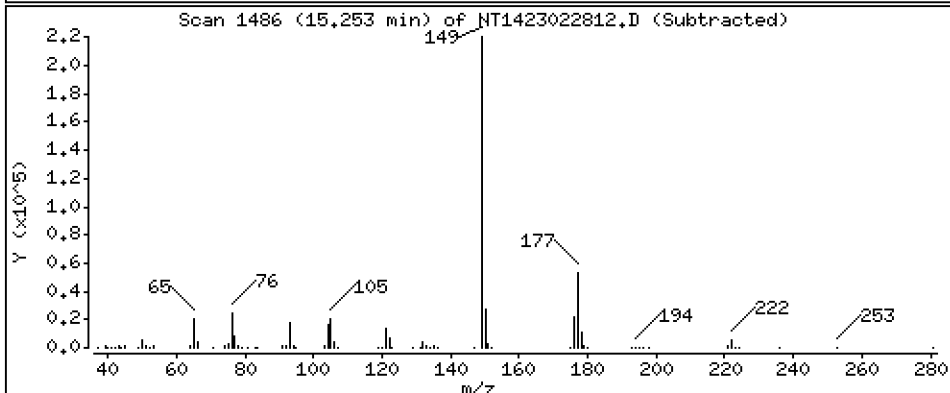
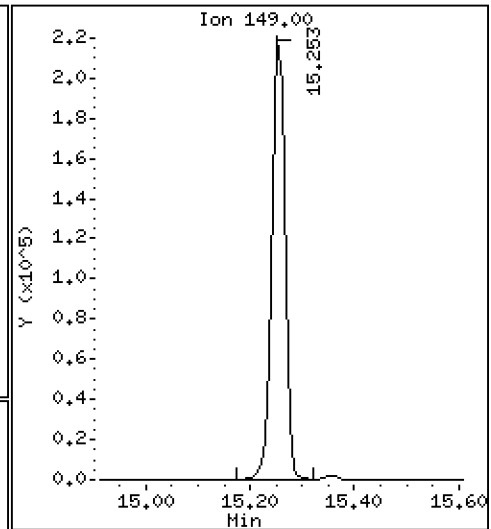
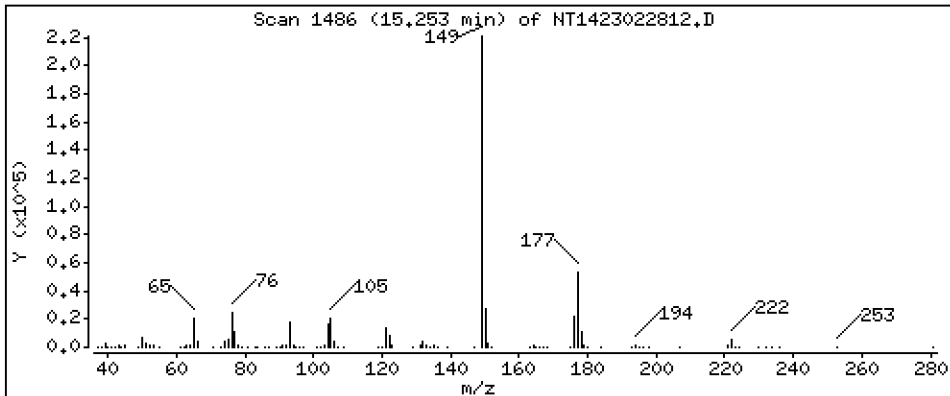
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

50 Diethylphthalate

Concentration: 5.420 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

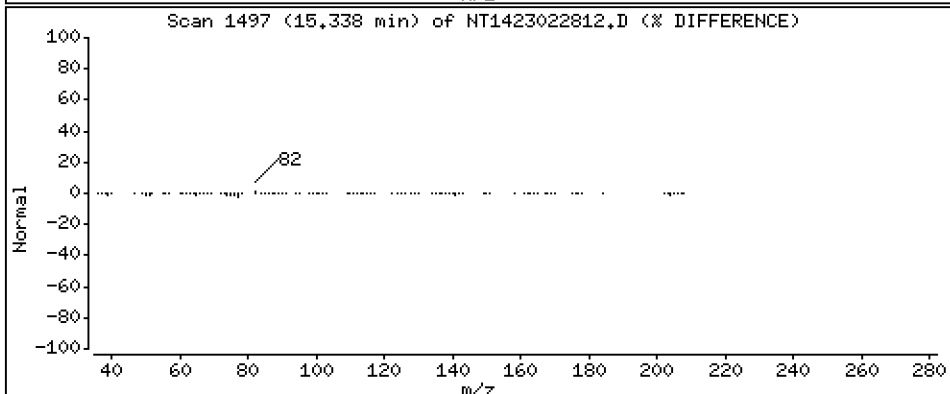
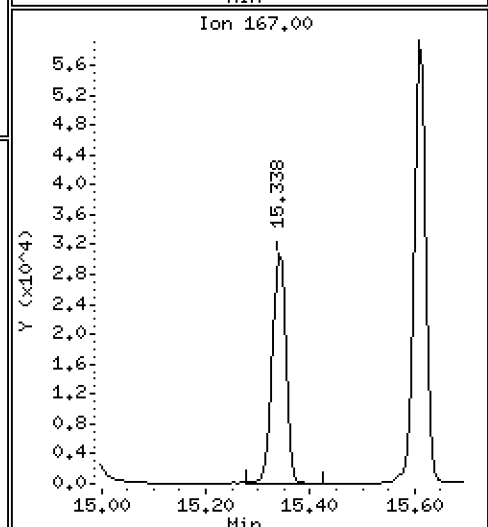
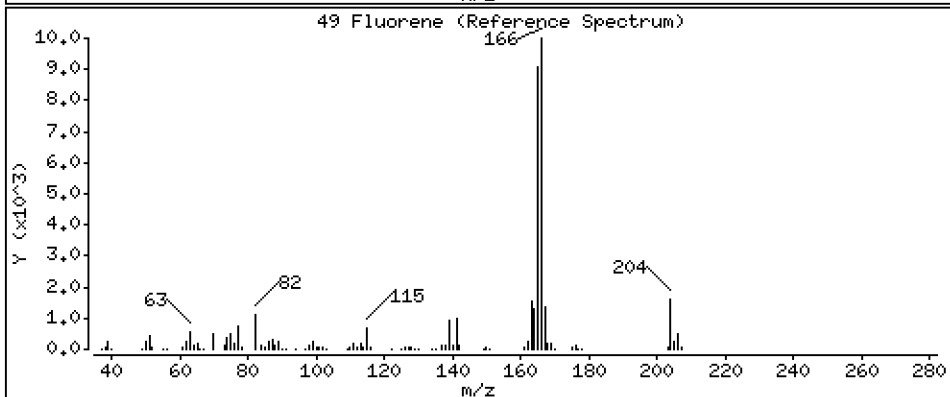
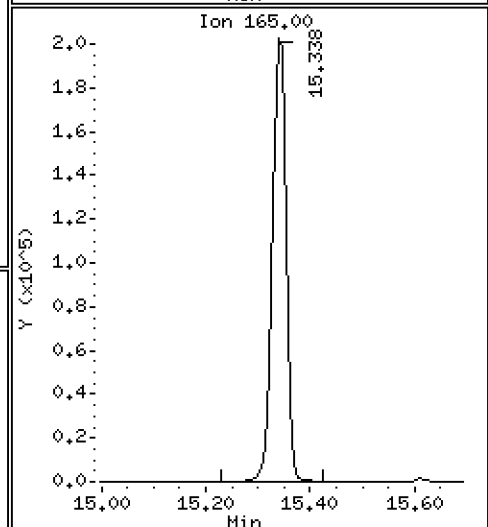
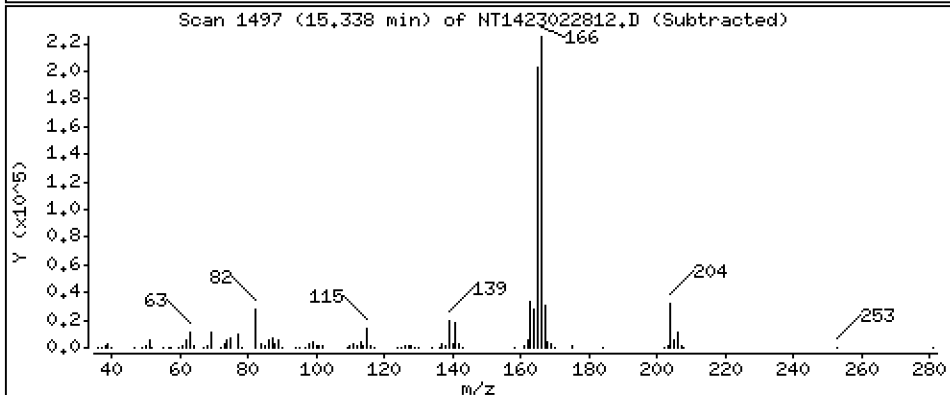
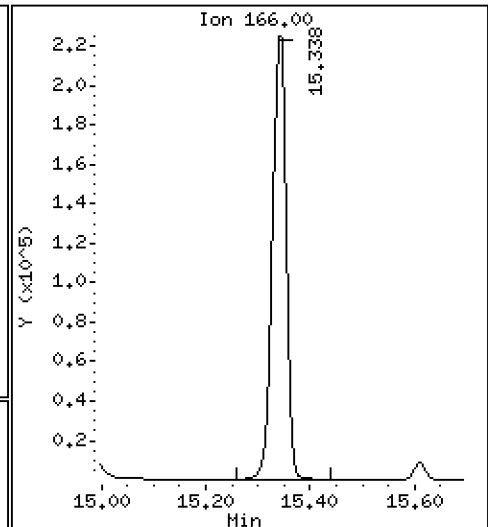
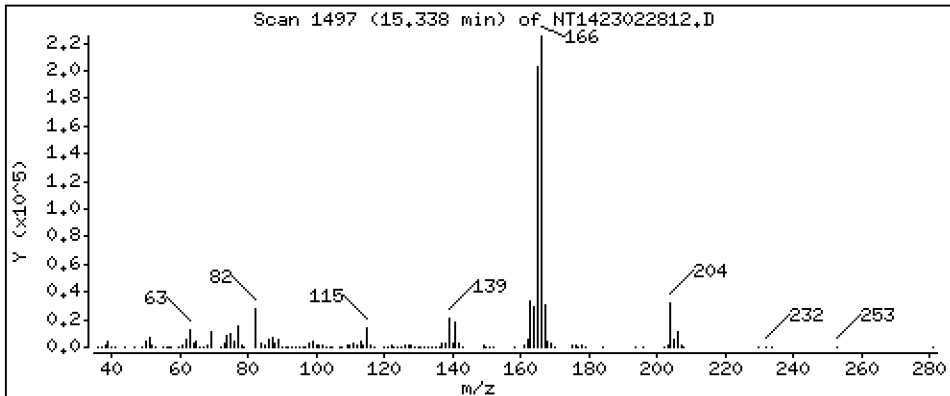
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 4,793 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

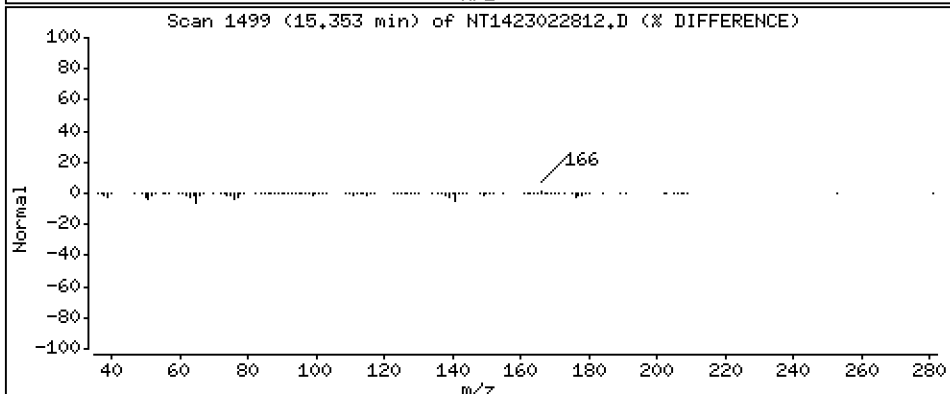
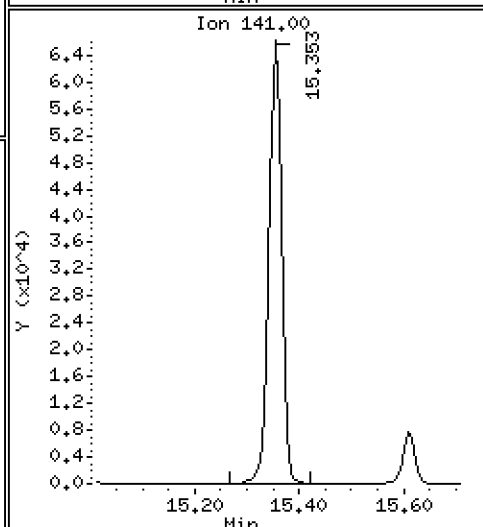
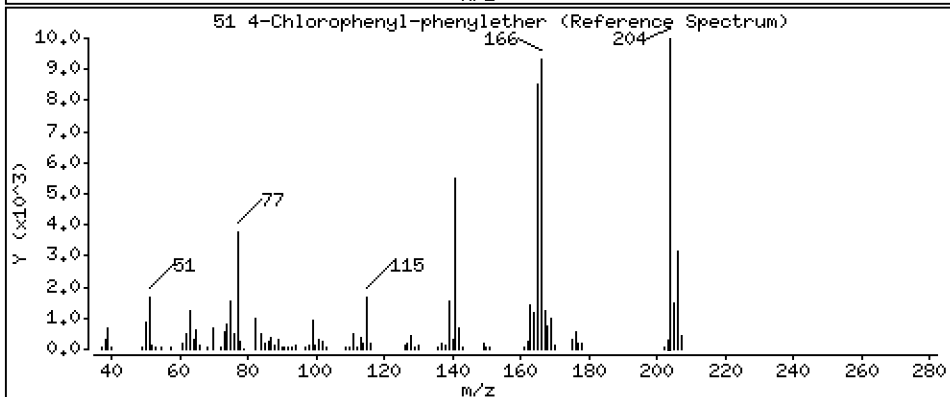
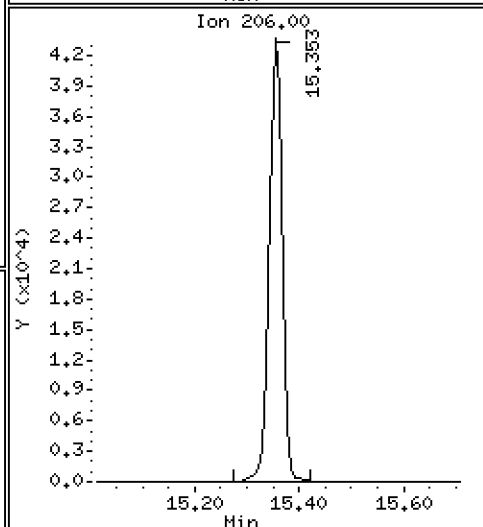
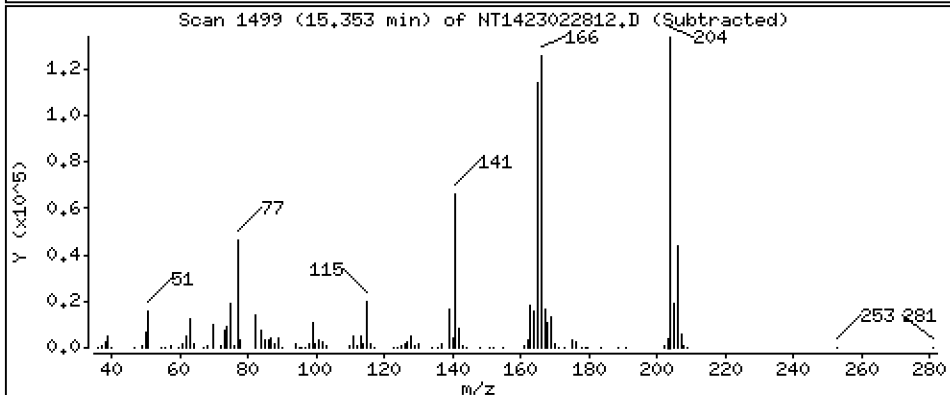
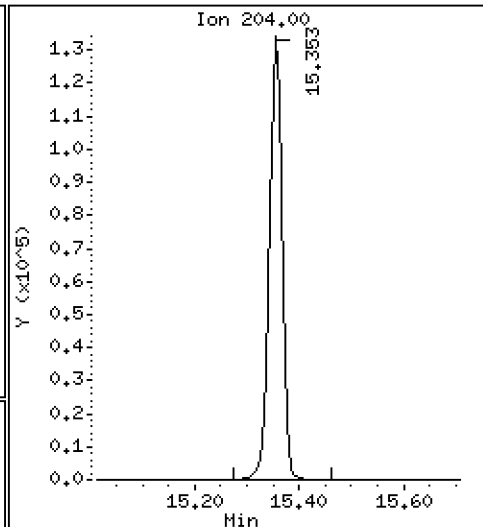
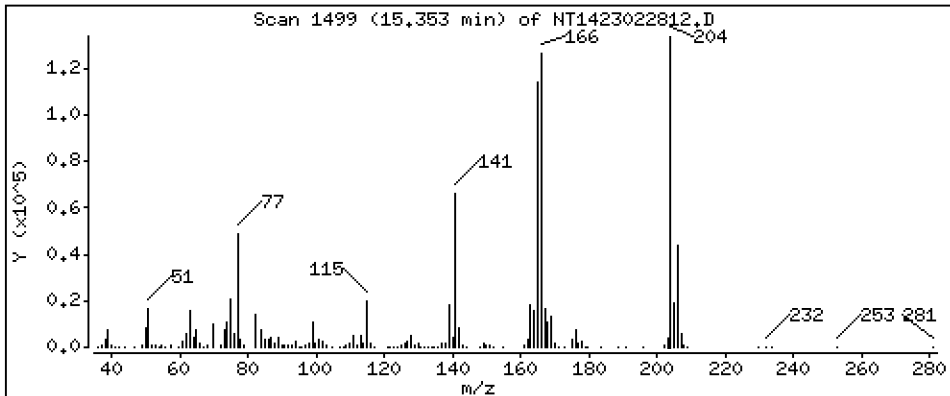
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 4,884 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

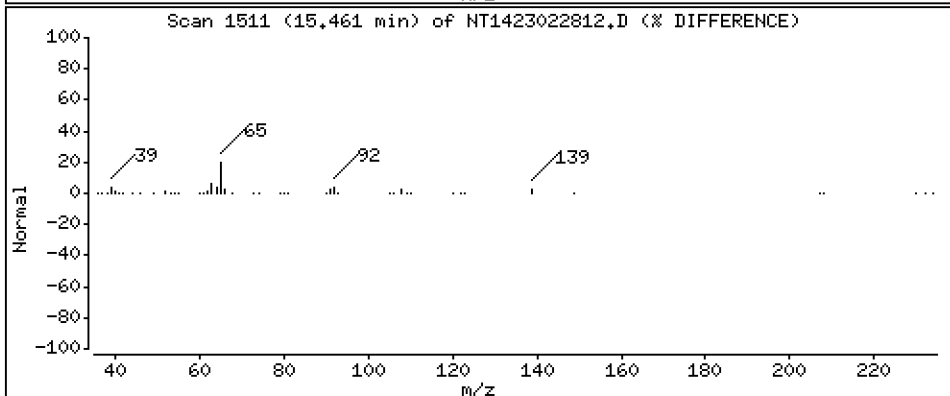
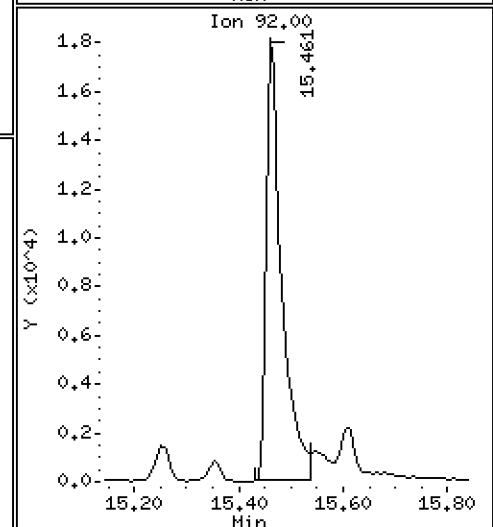
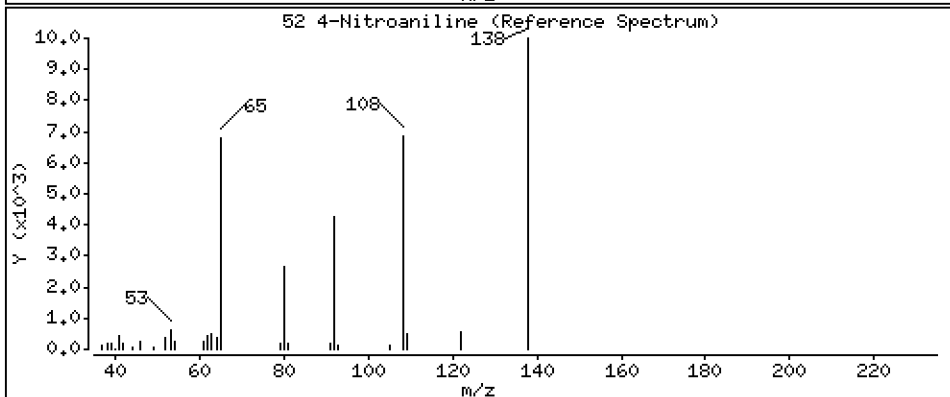
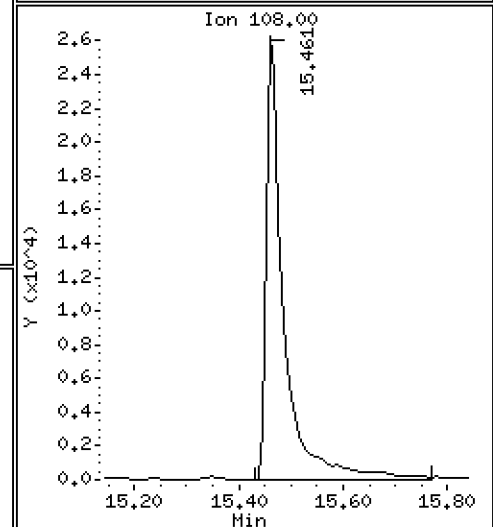
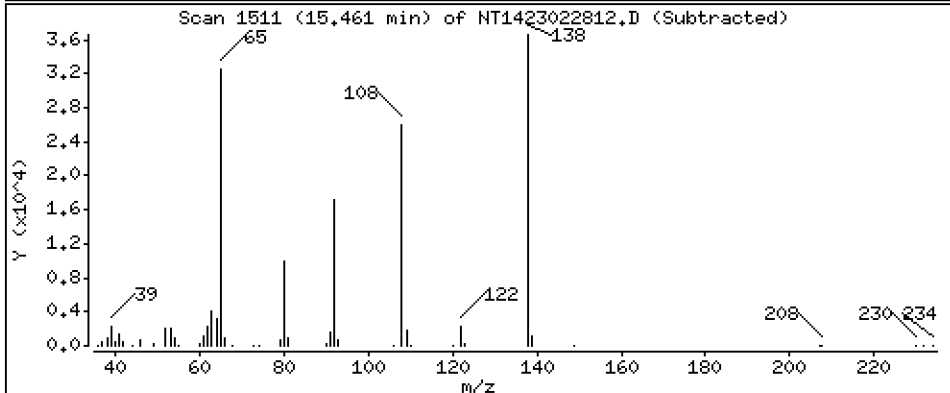
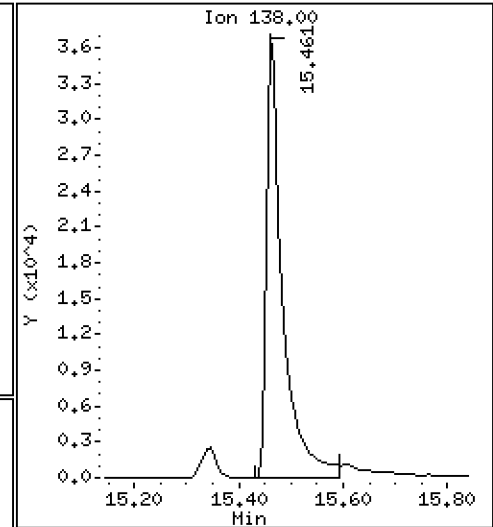
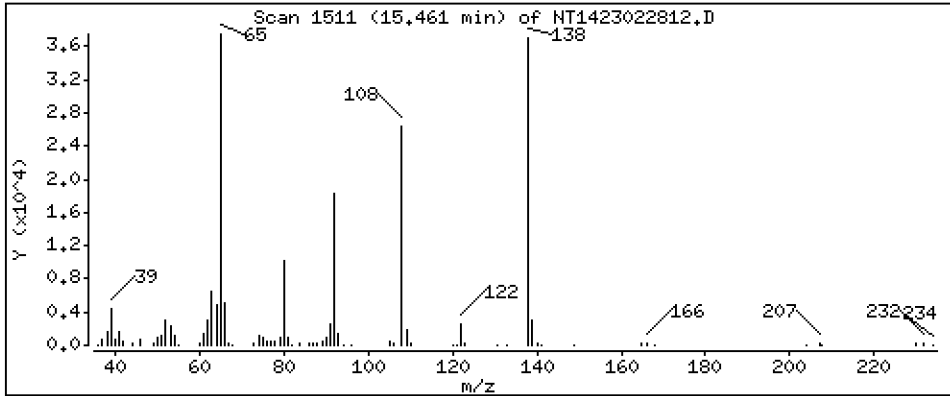
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

52 4-Nitroaniline

Concentration: 4,560 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

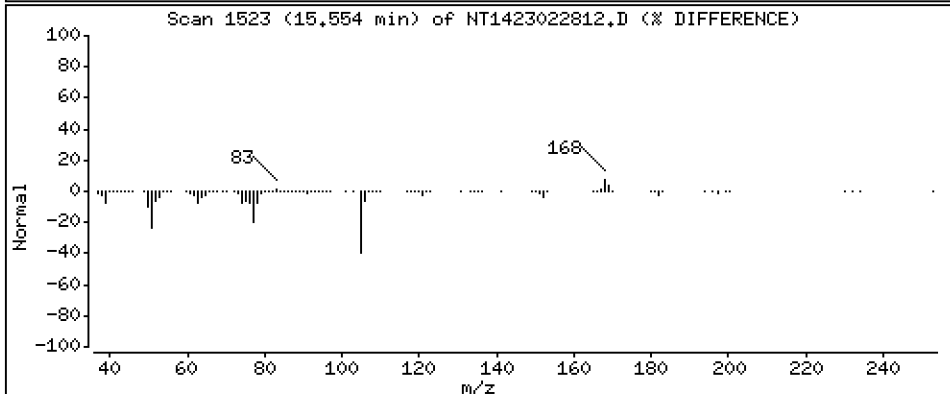
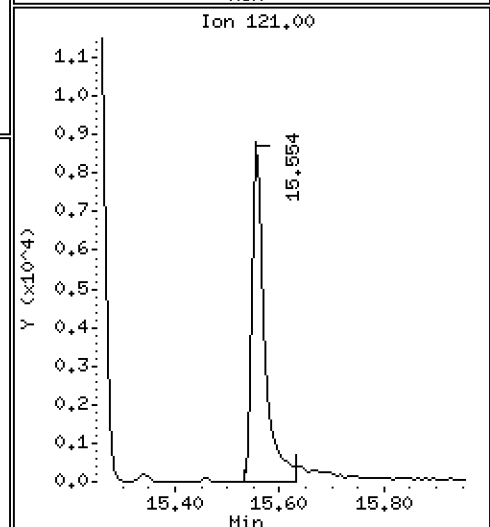
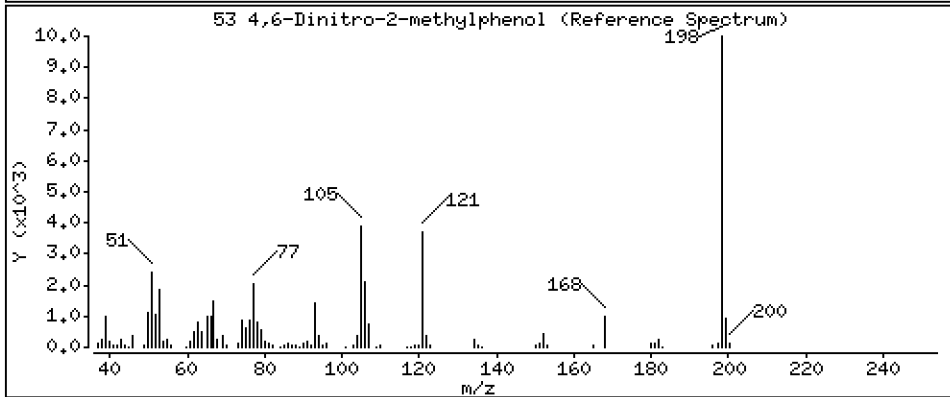
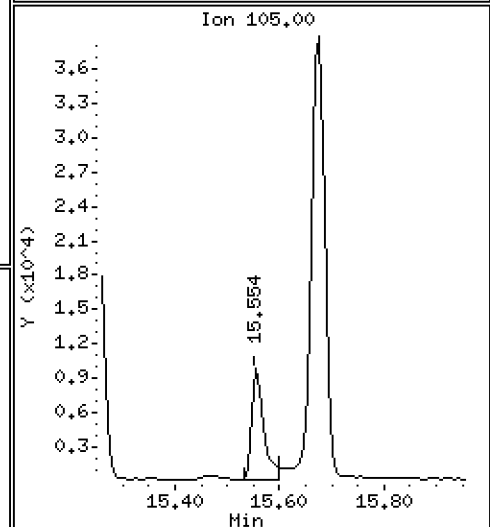
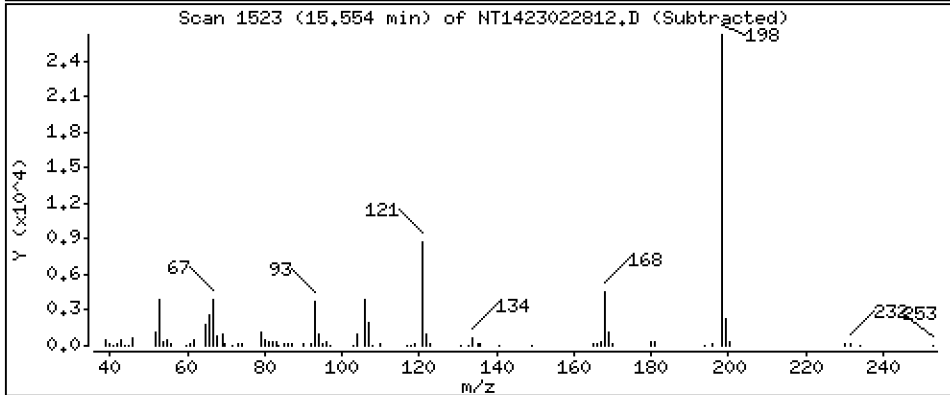
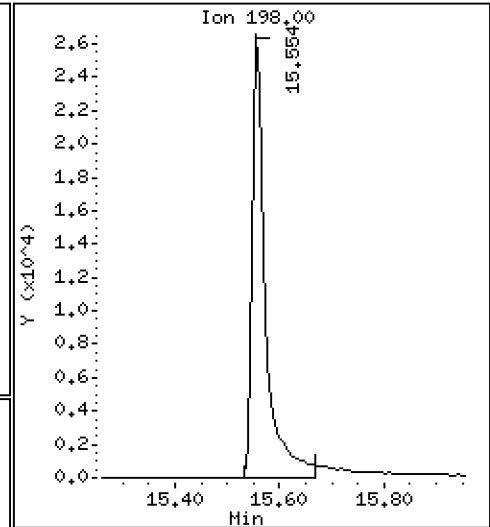
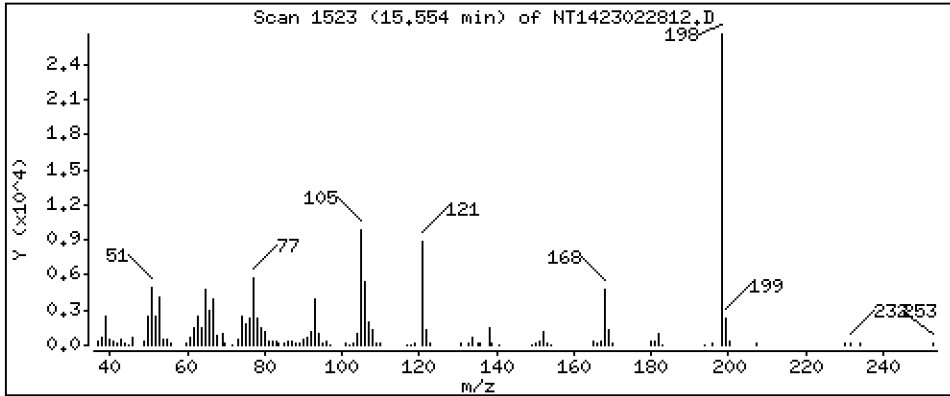
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

53 4,6-Dinitro-2-methylphenol

Concentration: 3,234 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

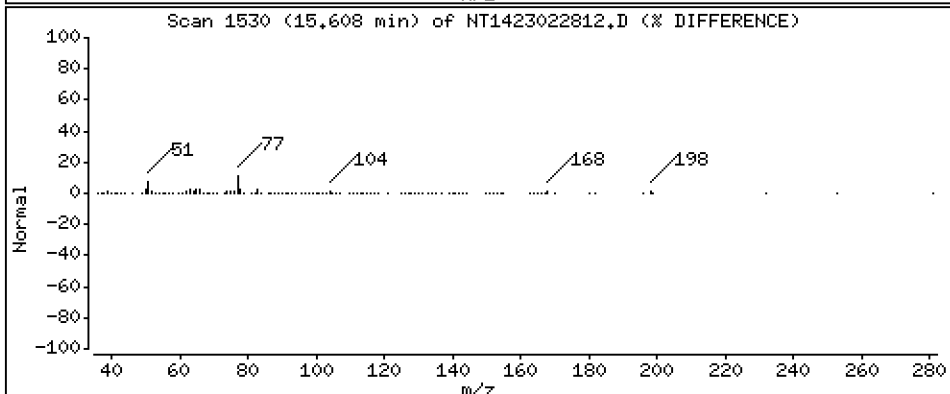
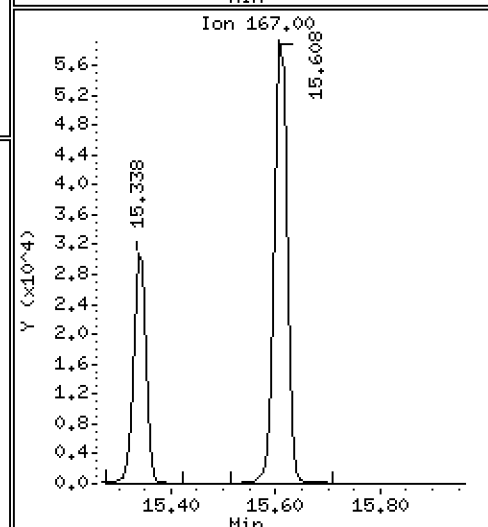
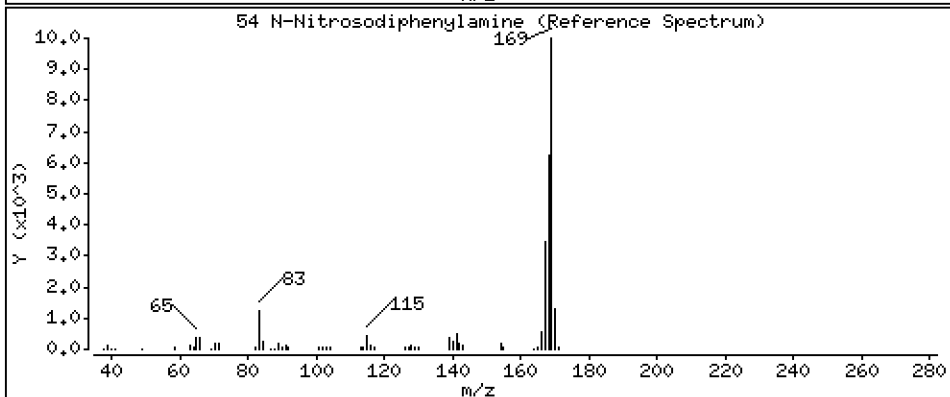
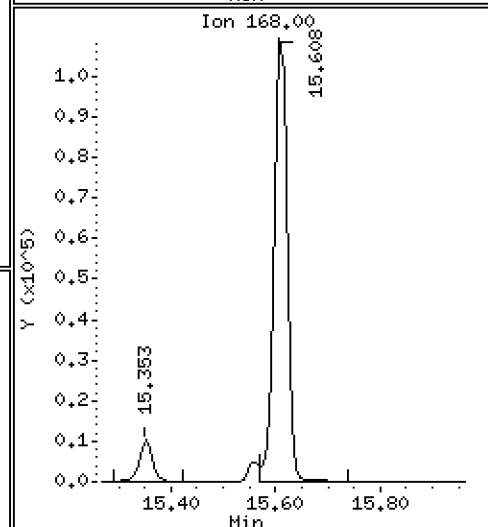
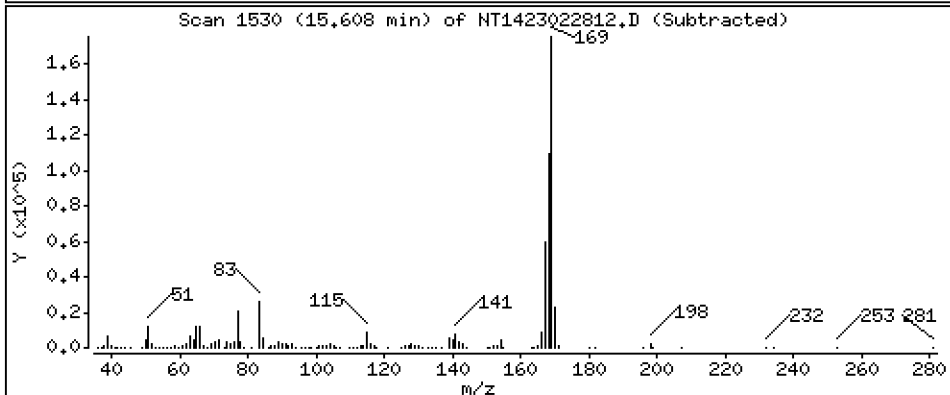
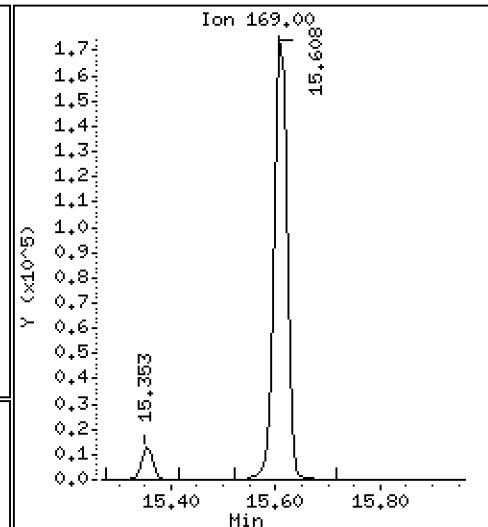
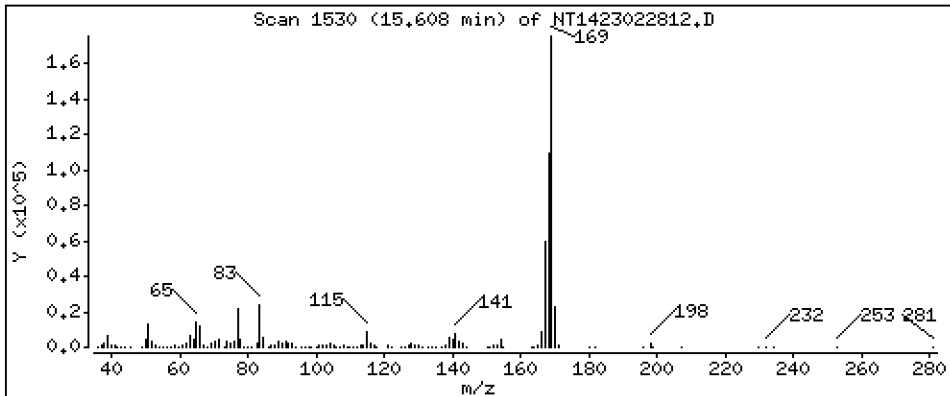
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

54 N-Nitrosodiphenylamine

Concentration: 4,980 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

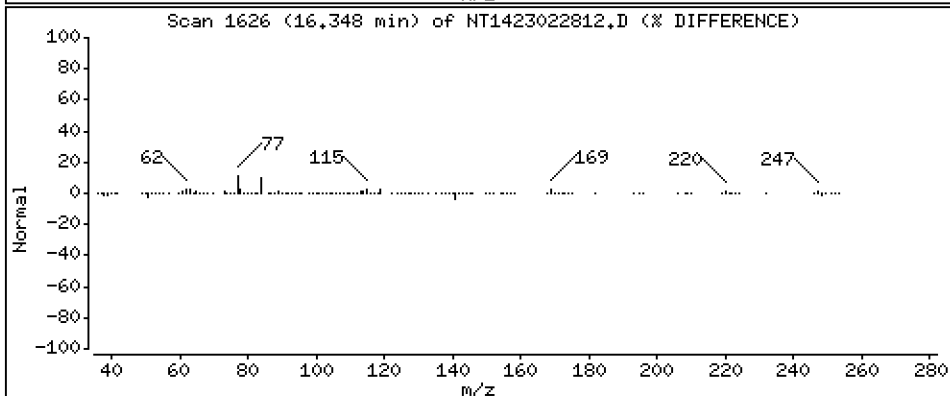
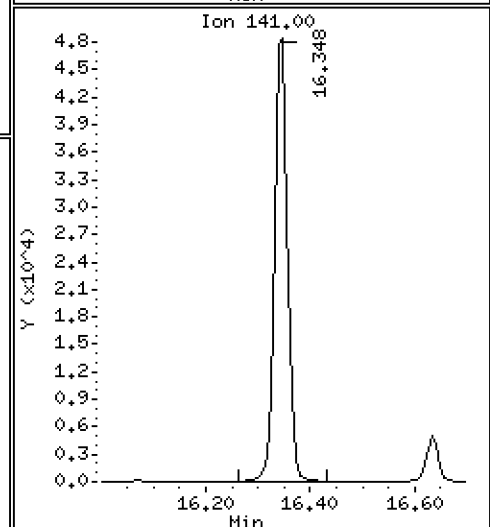
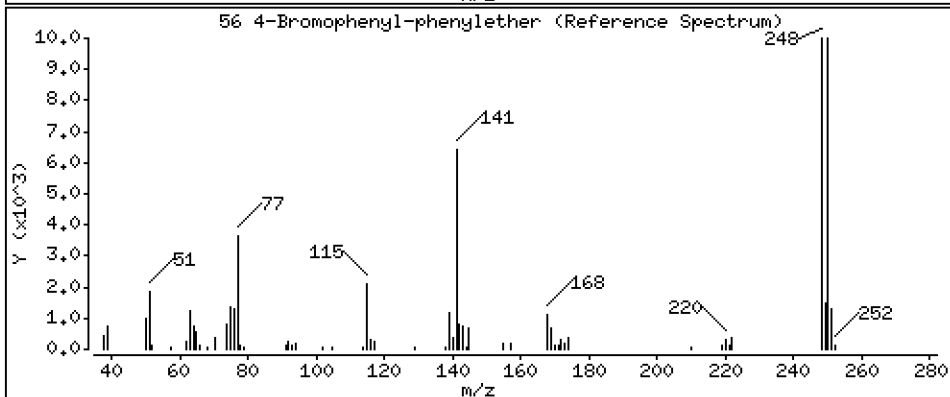
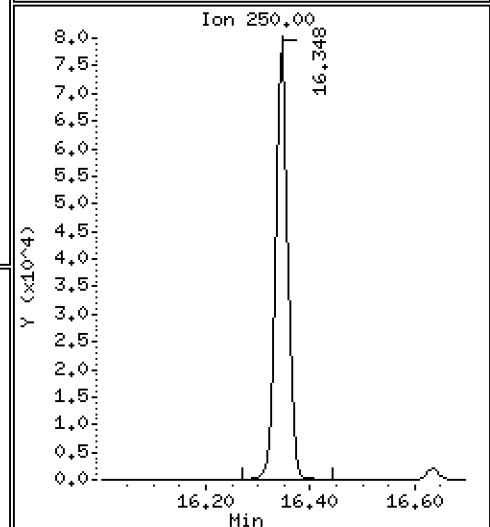
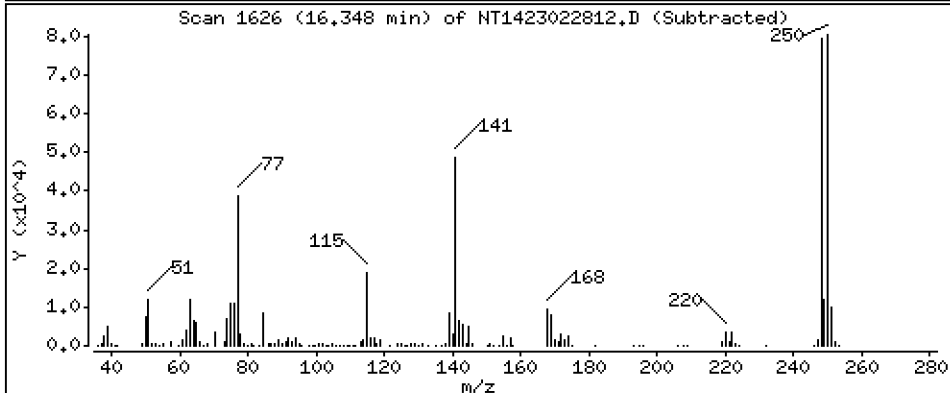
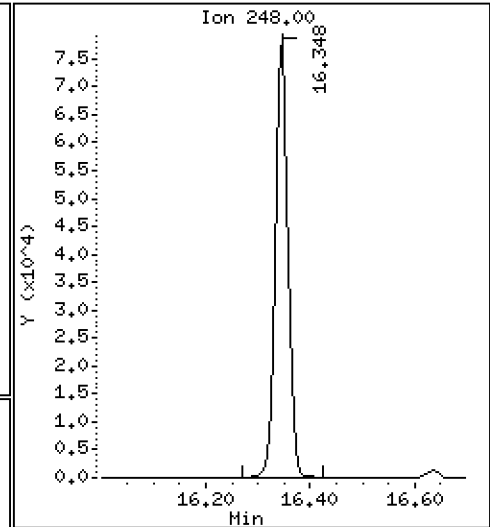
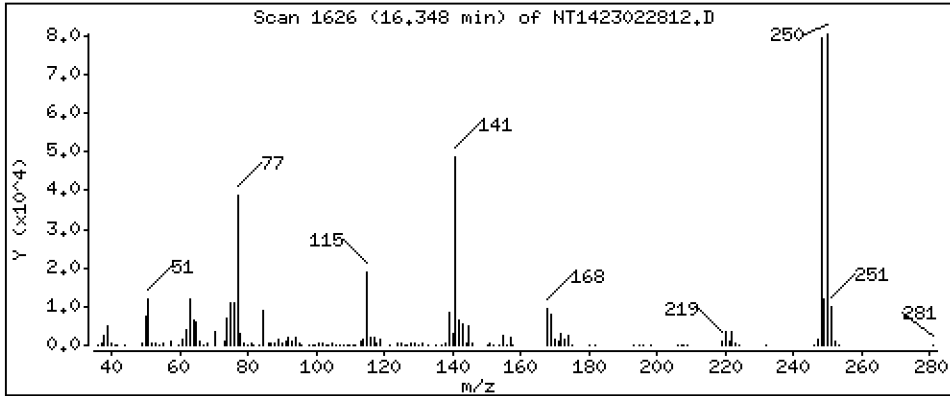
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 5,152 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

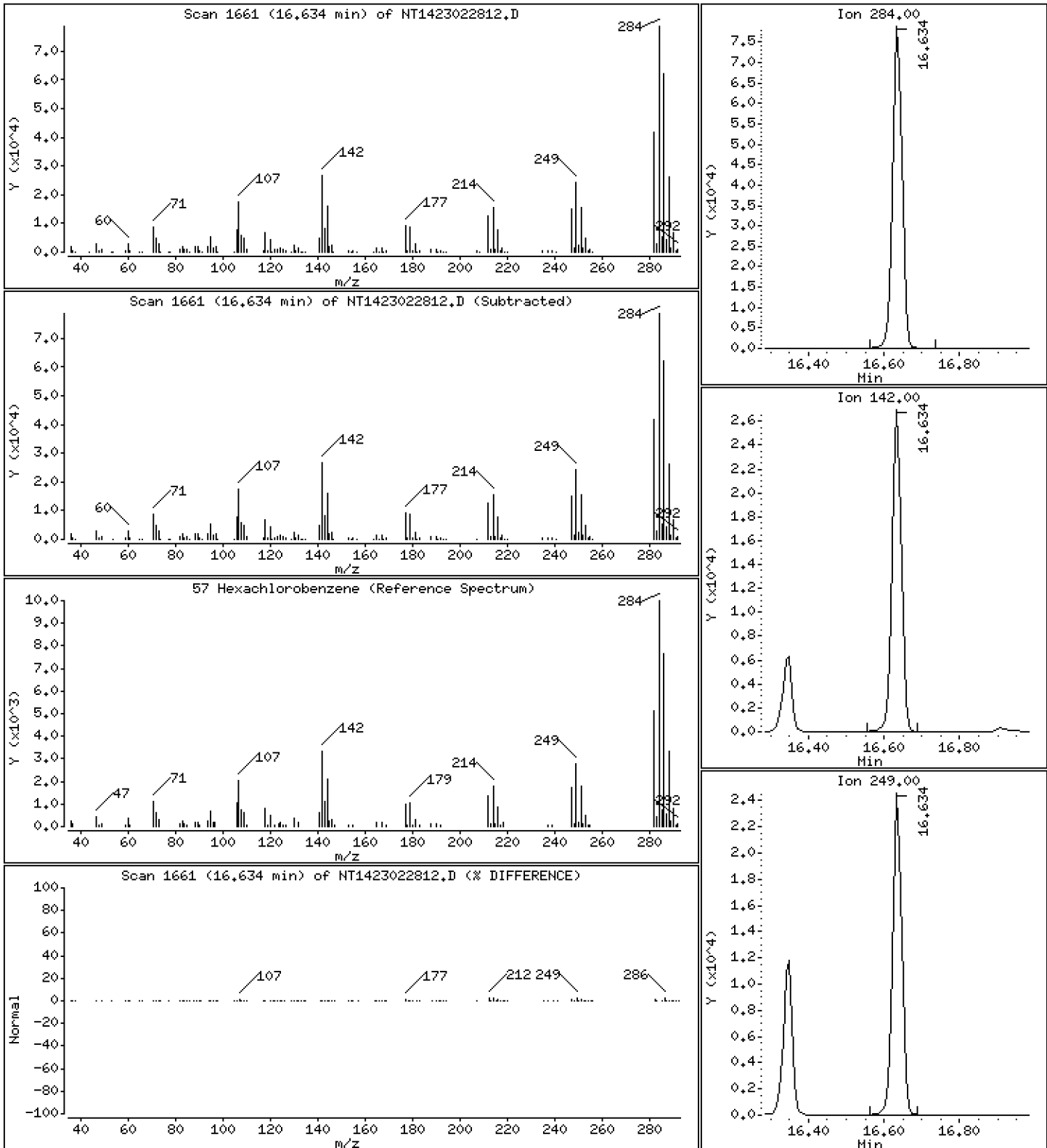
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

57 Hexachlorobenzene

Concentration: 4.790 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

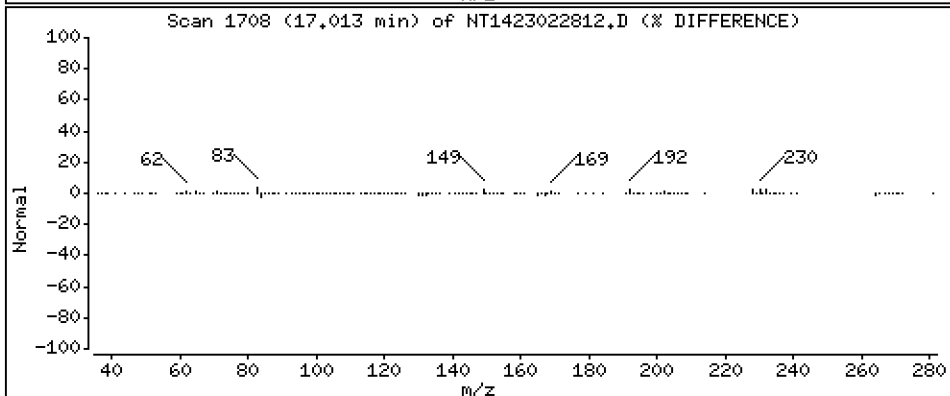
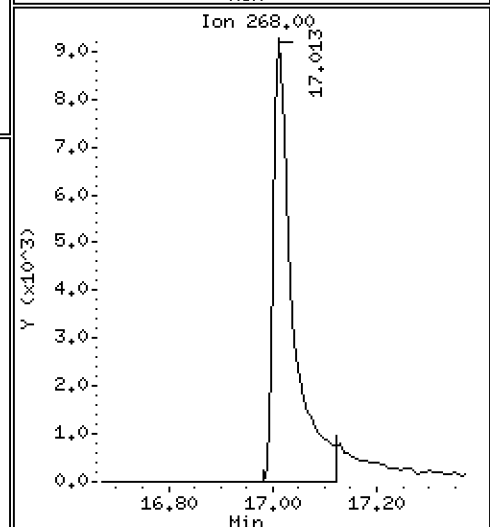
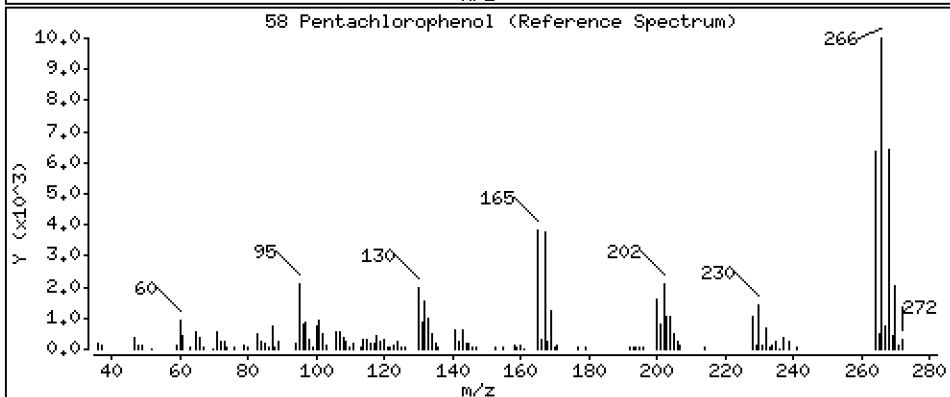
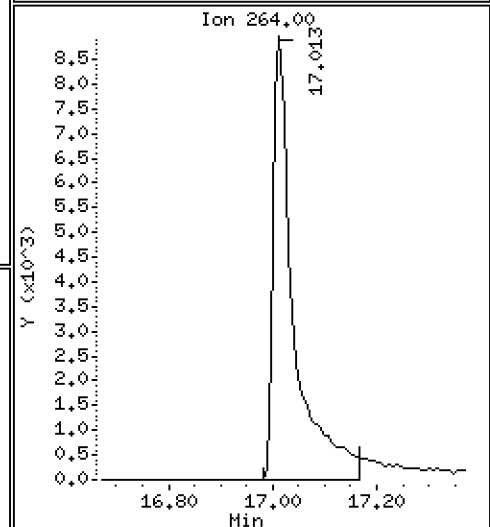
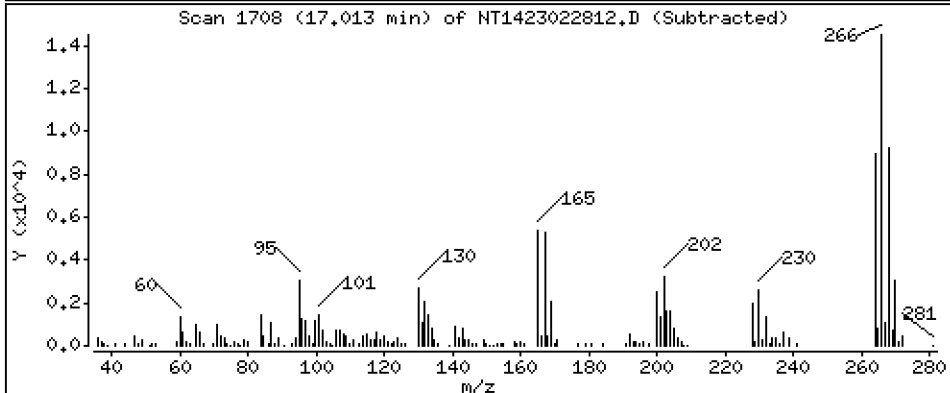
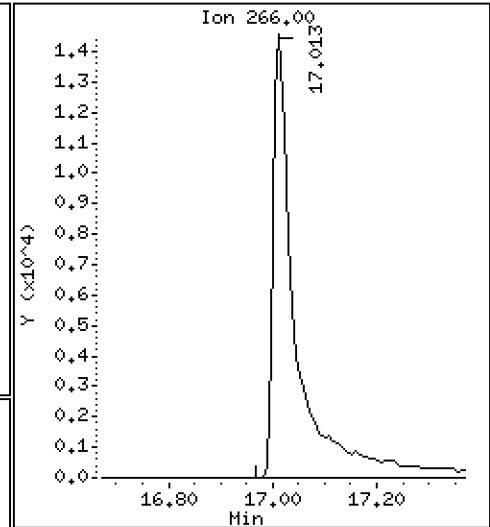
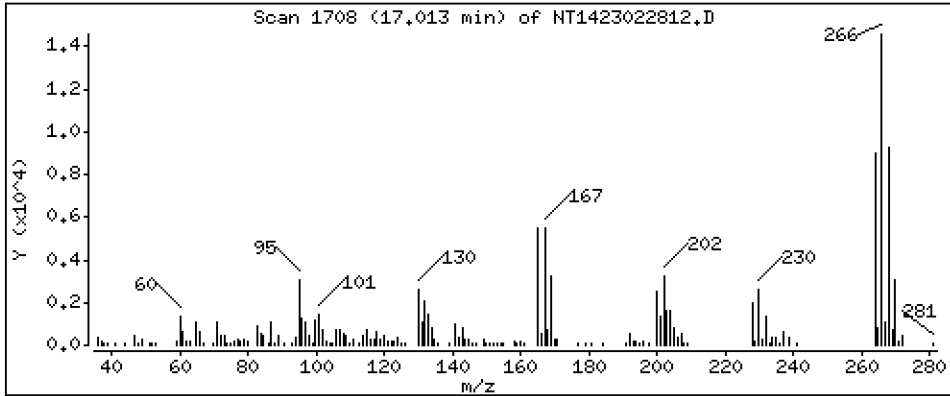
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 3,524 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

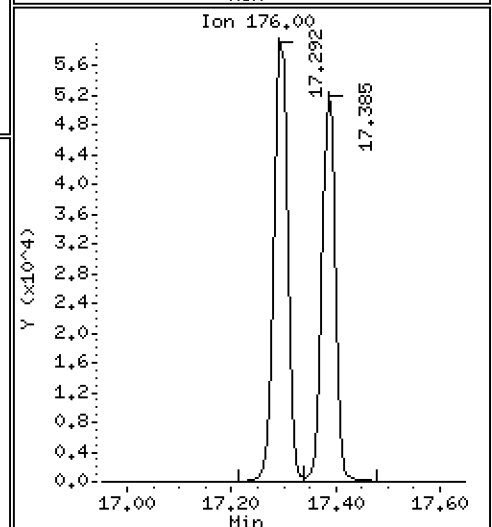
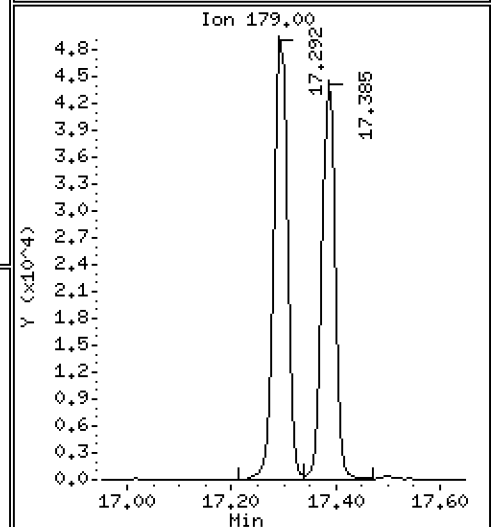
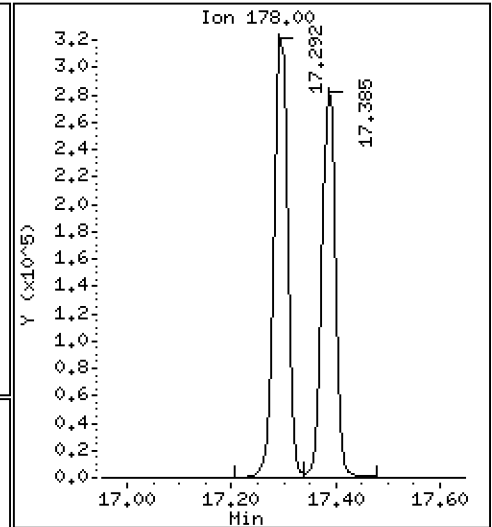
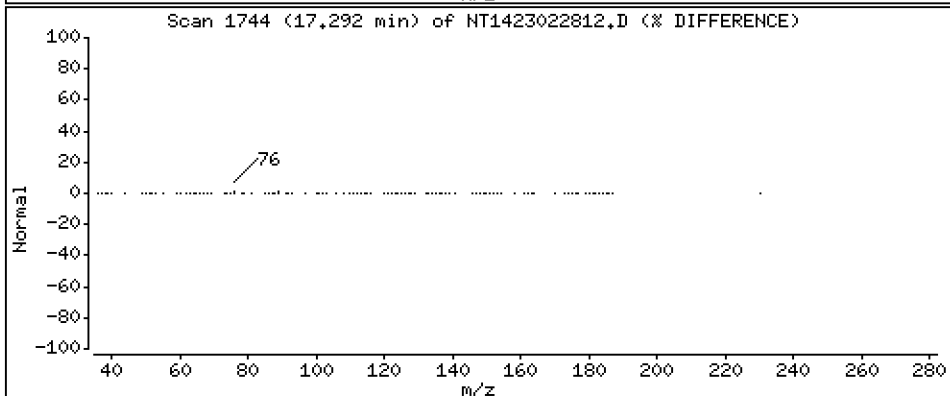
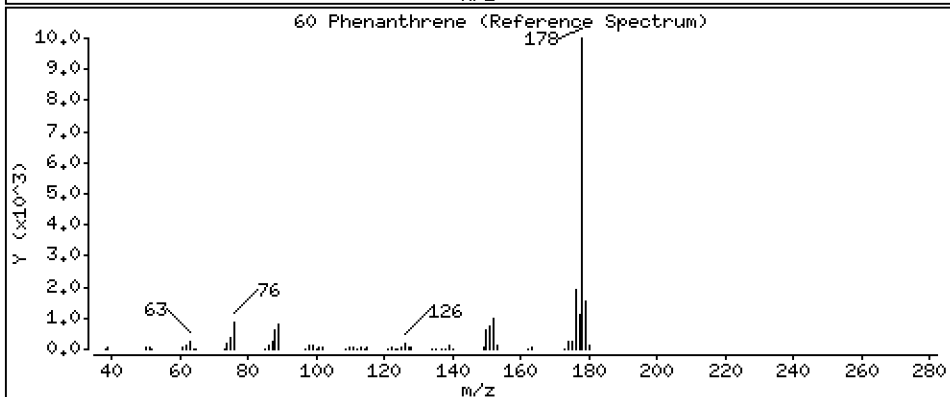
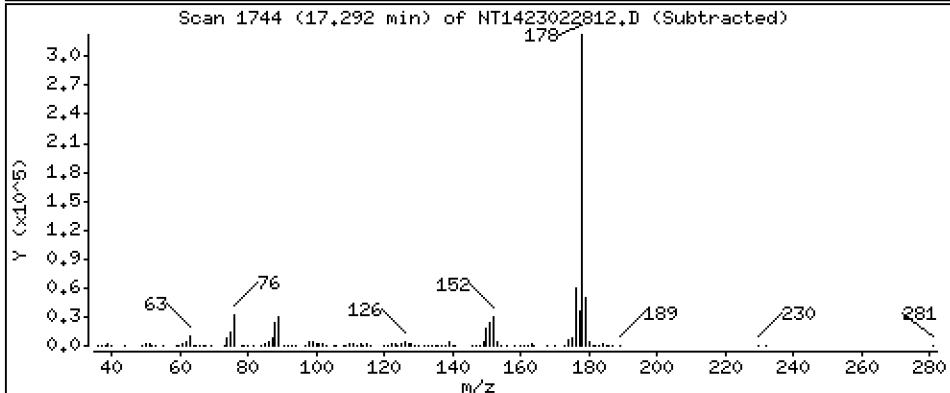
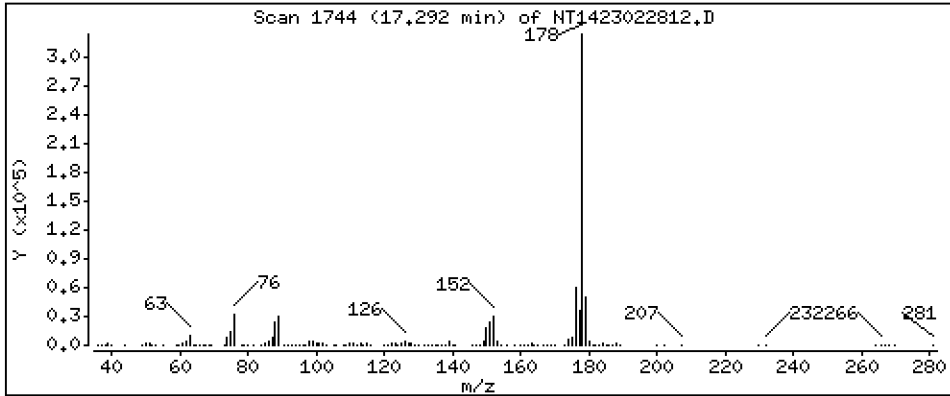
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 4,615 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

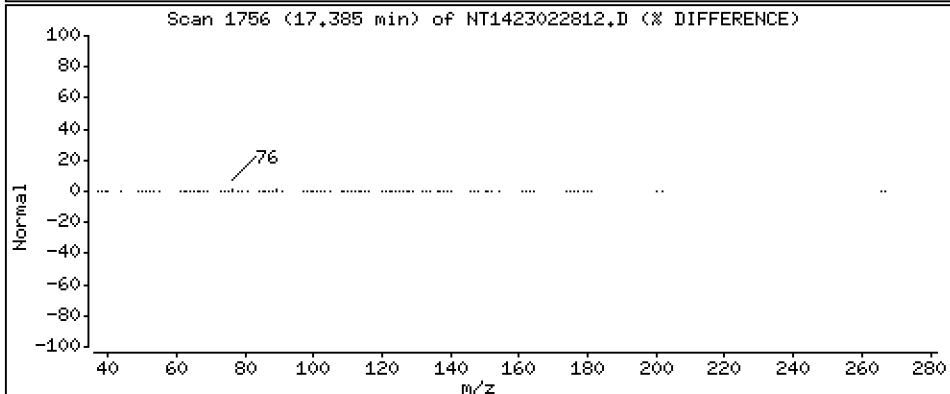
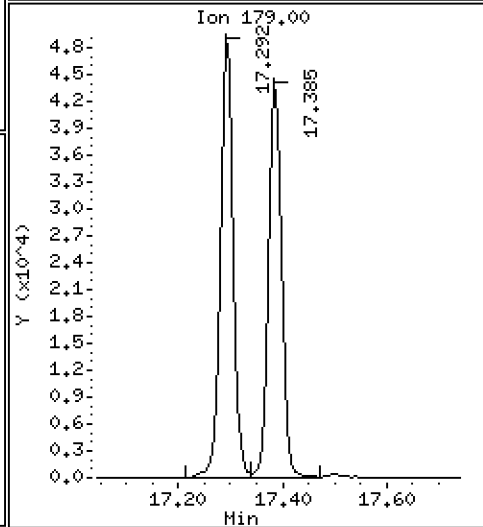
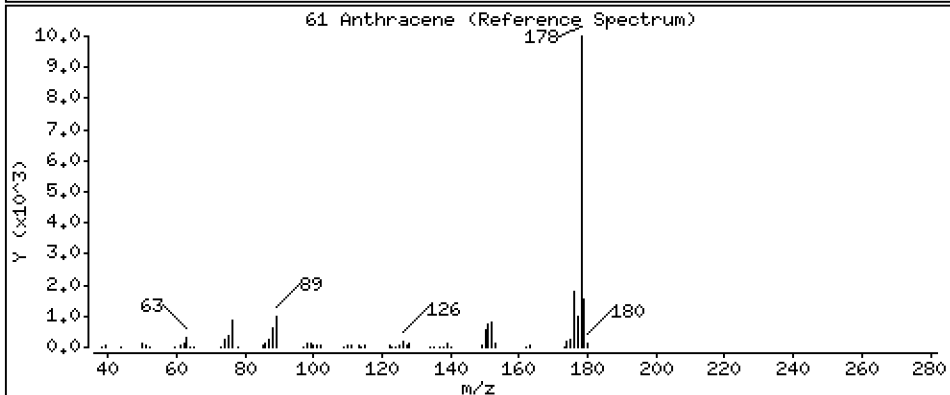
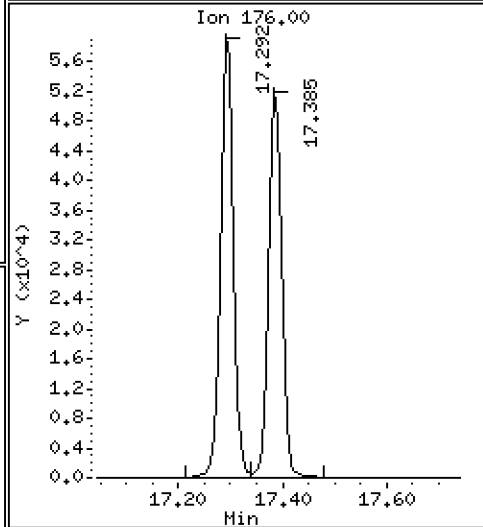
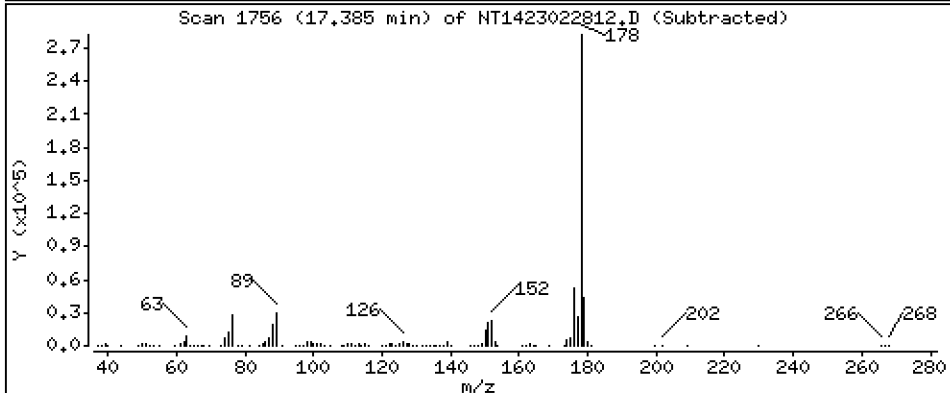
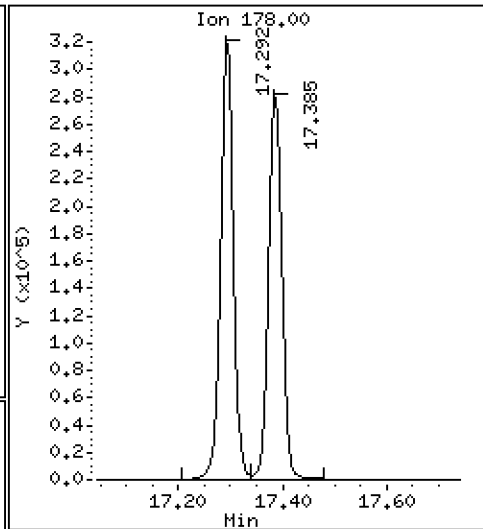
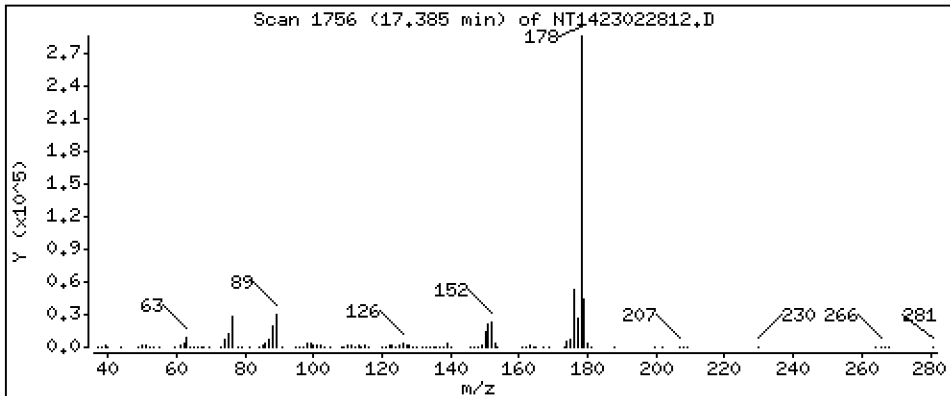
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 4,224 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

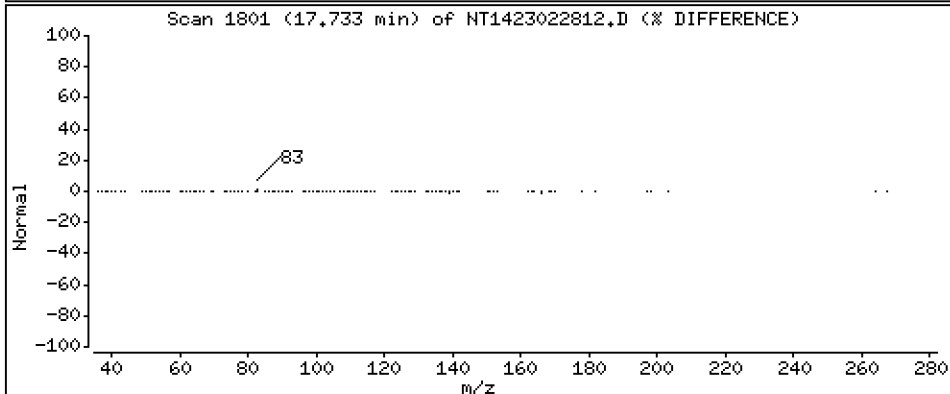
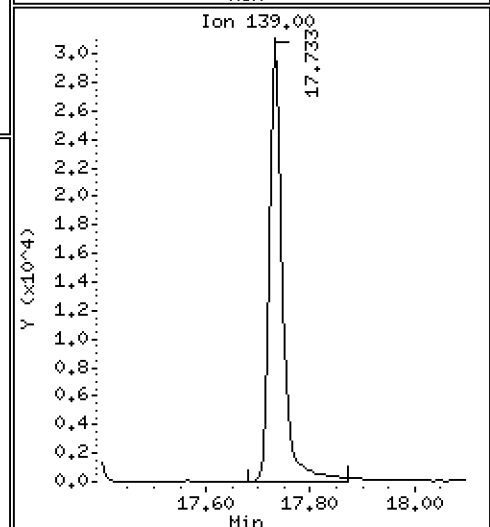
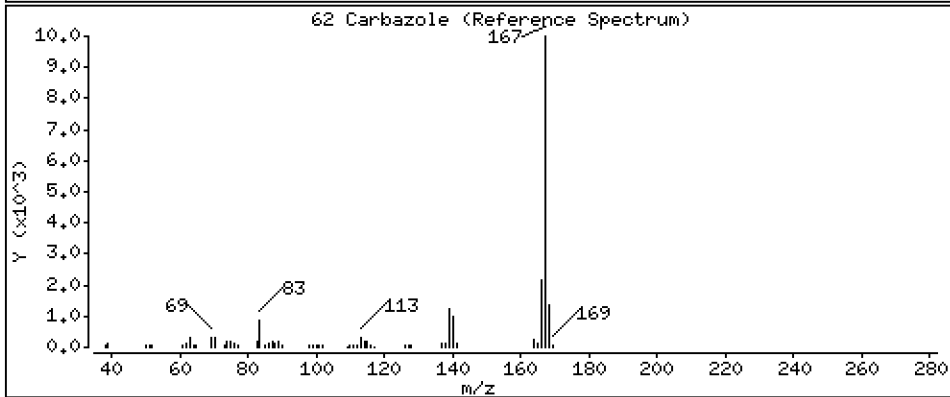
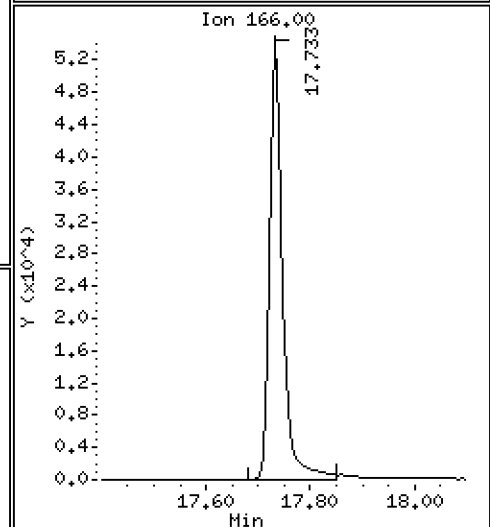
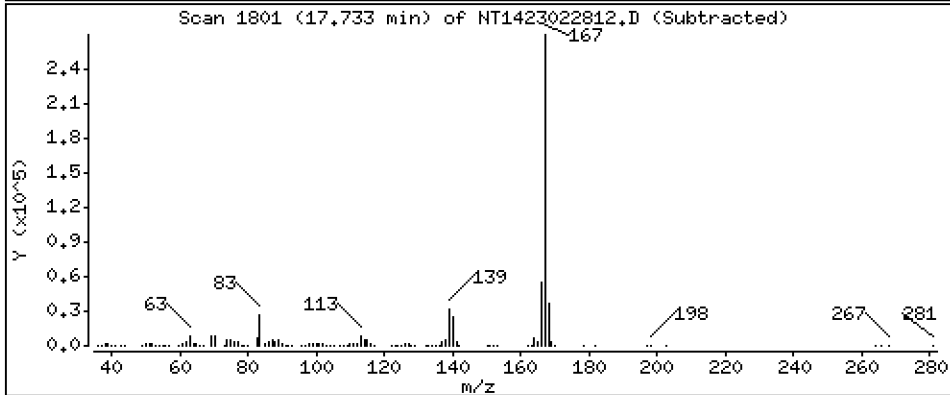
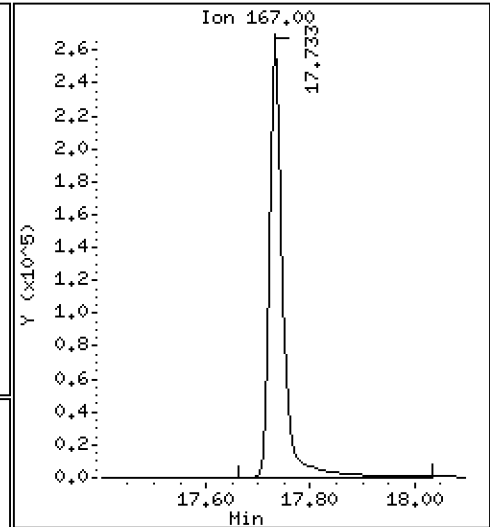
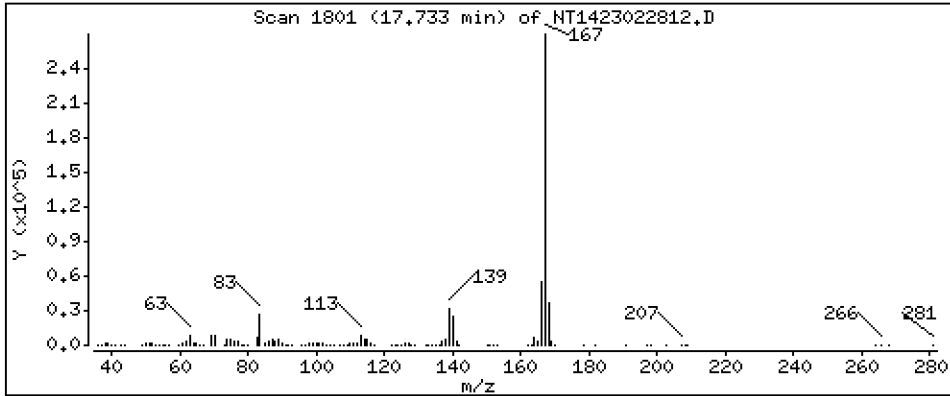
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 4,776 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

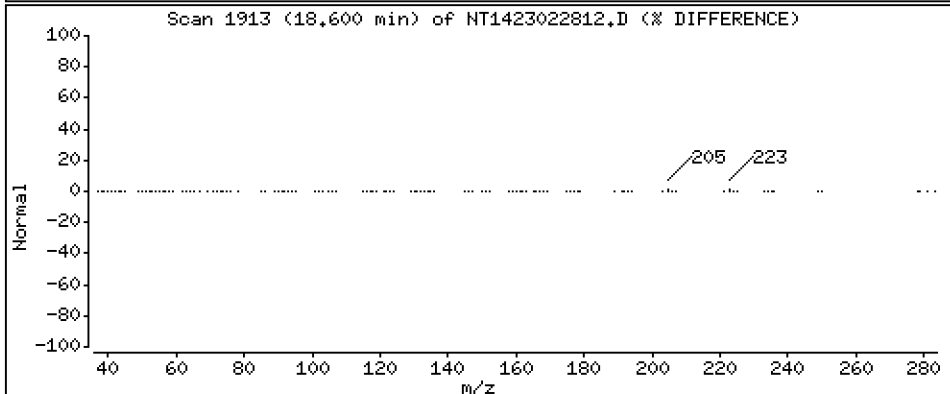
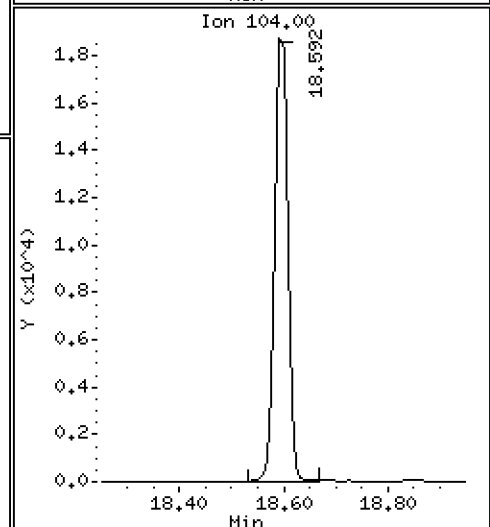
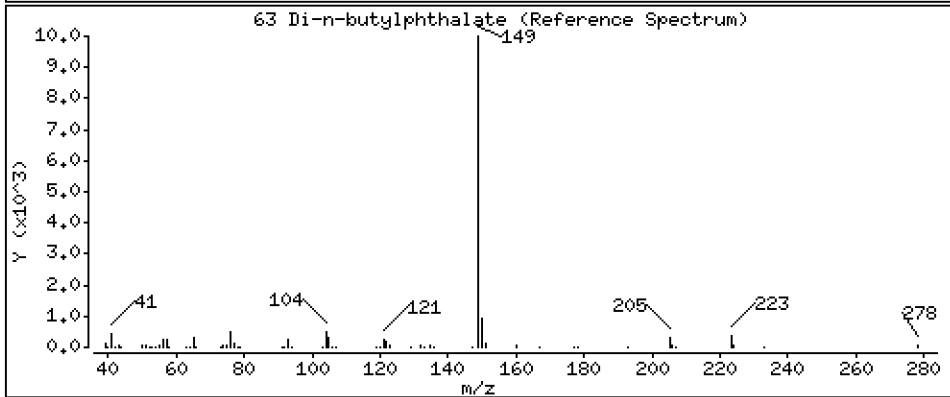
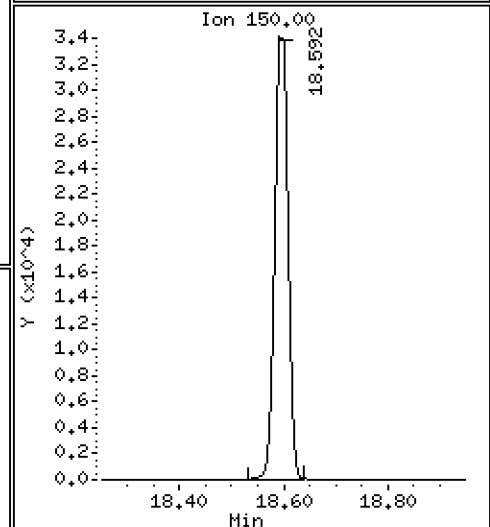
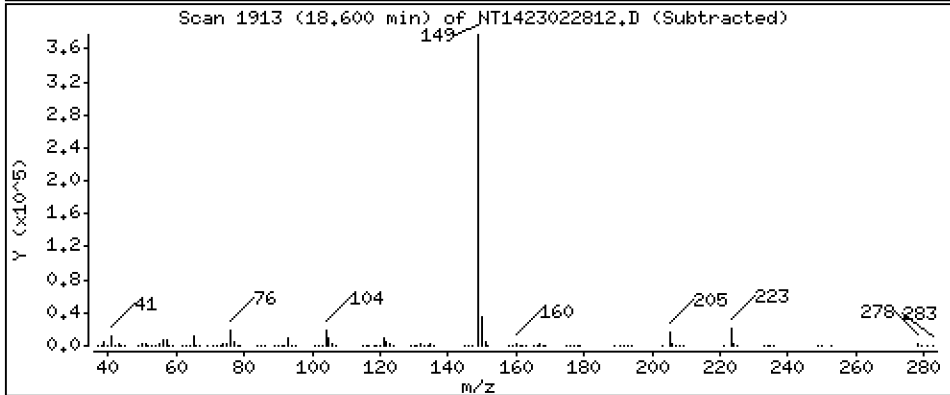
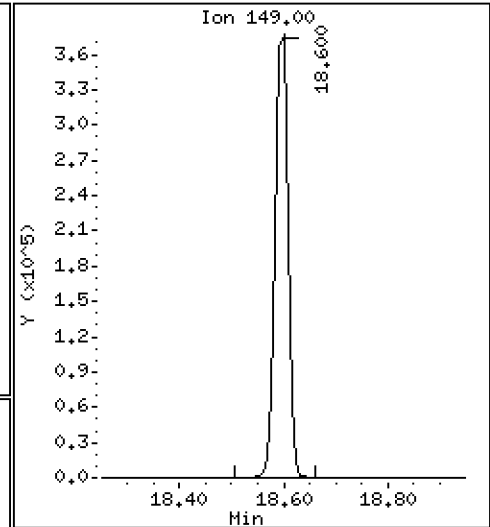
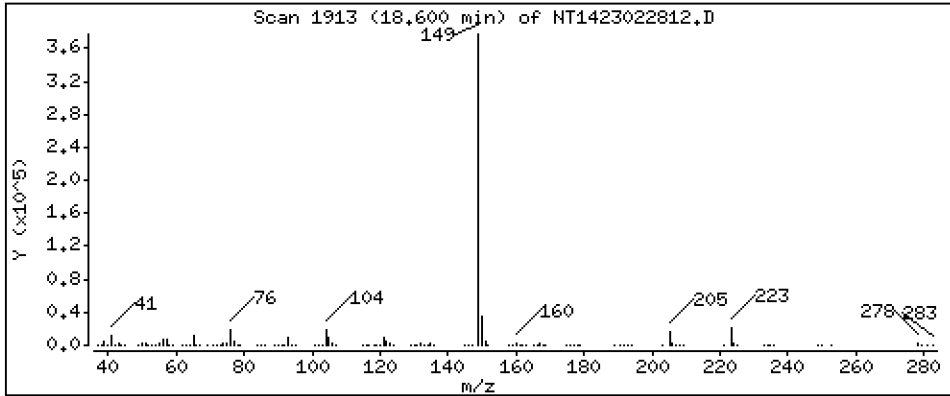
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 4,819 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

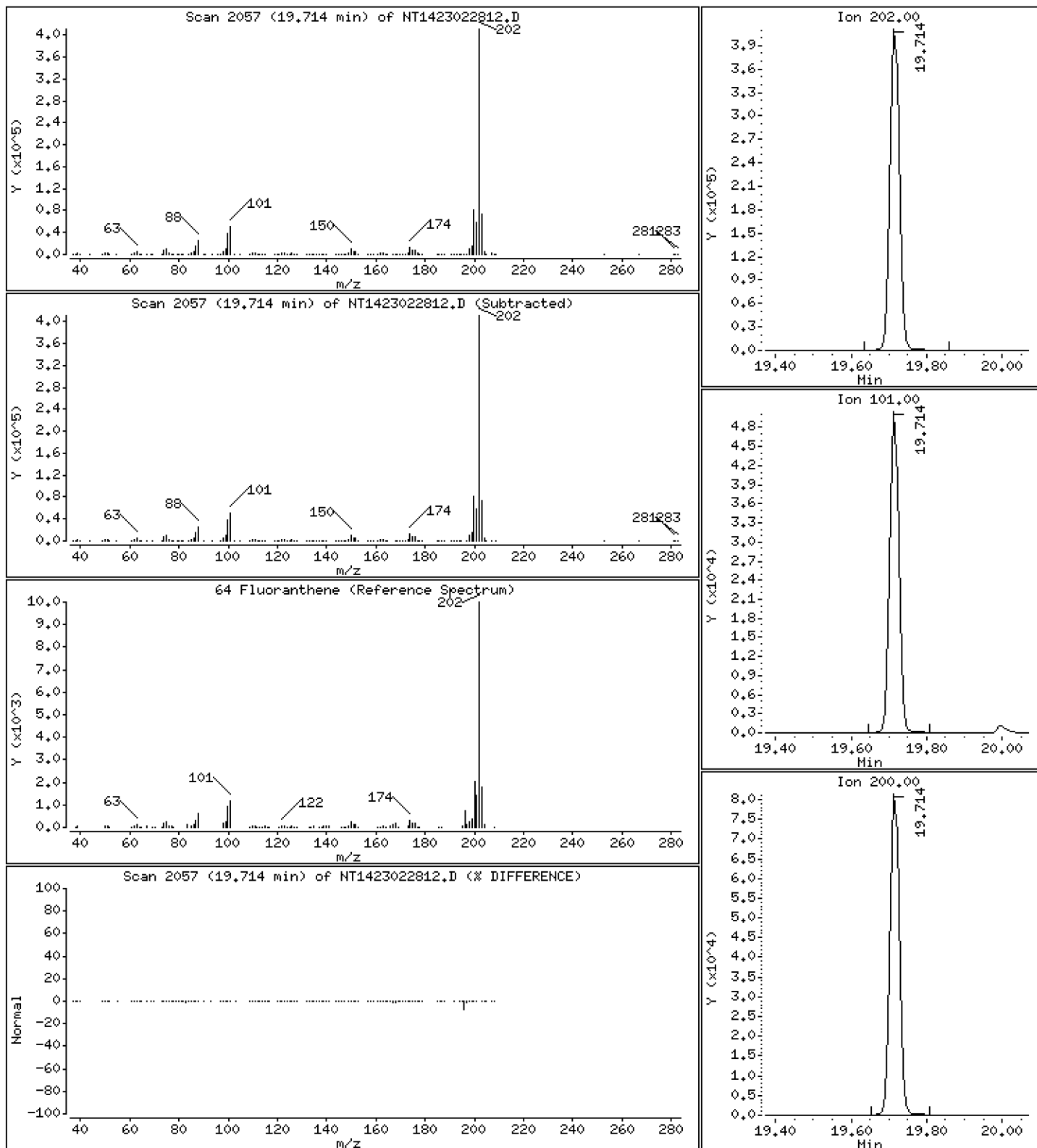
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 5,104 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

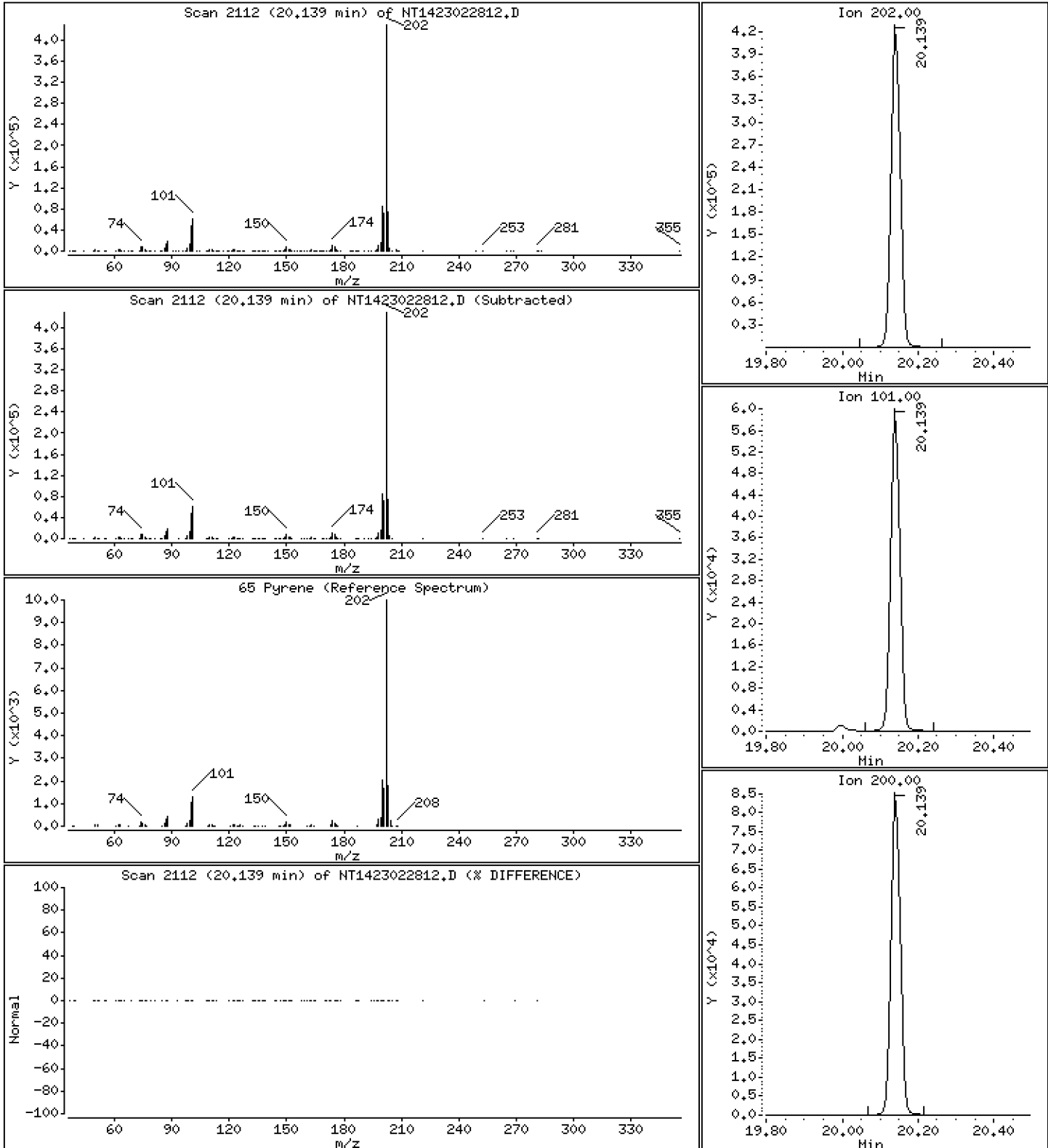
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 4,957 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

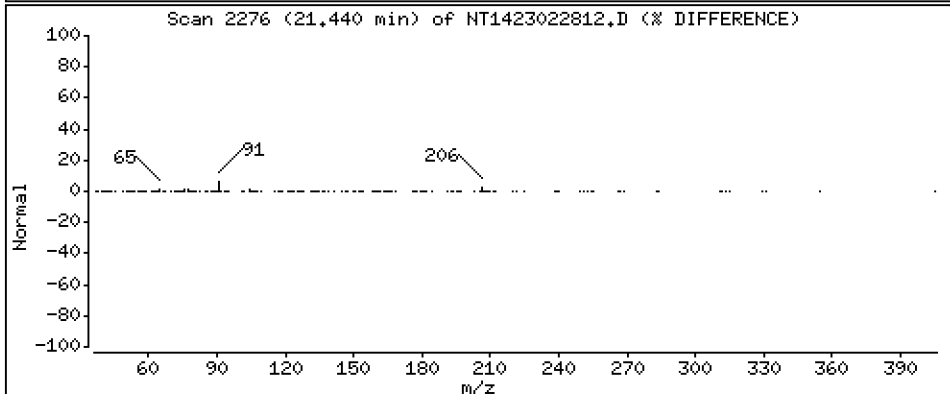
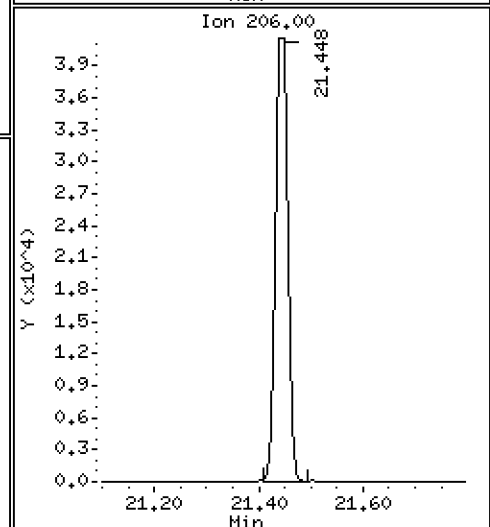
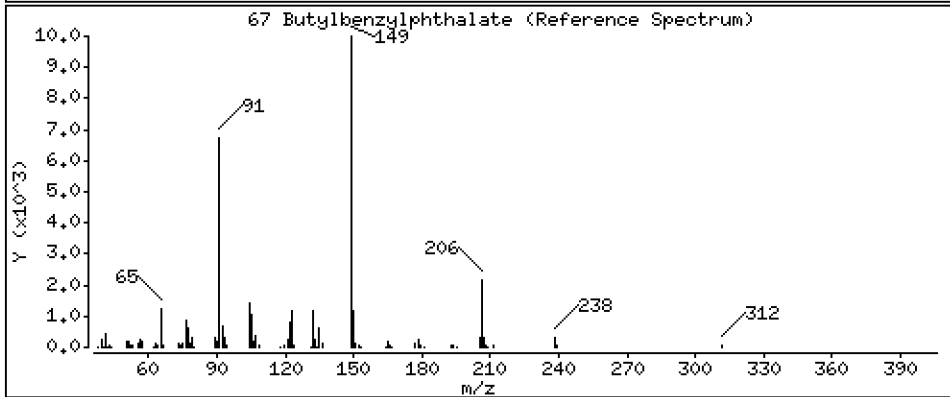
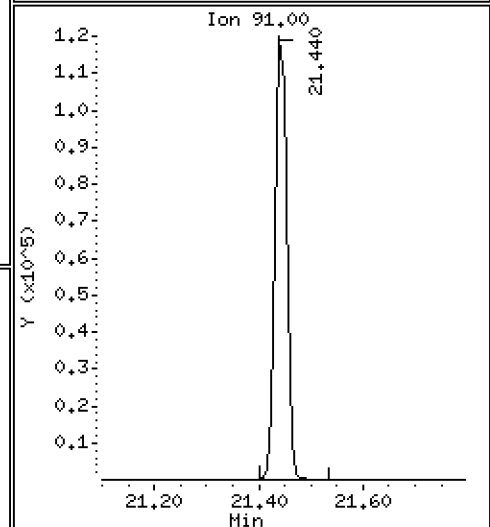
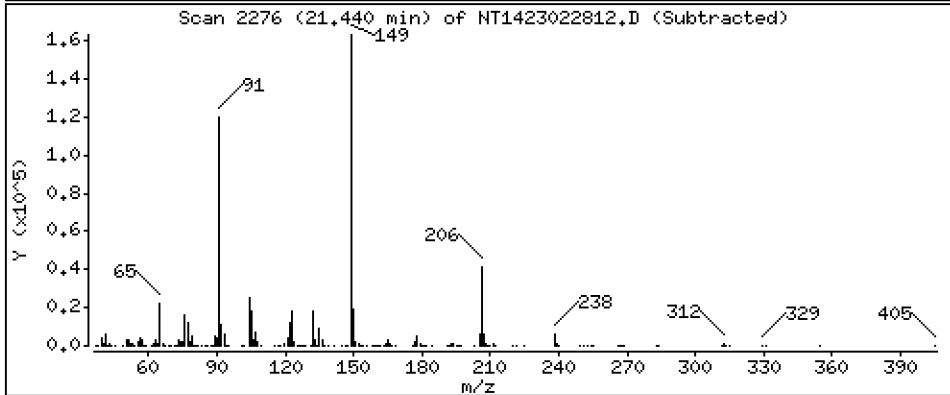
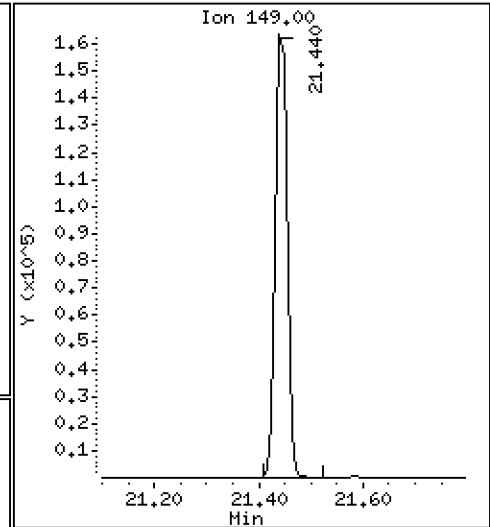
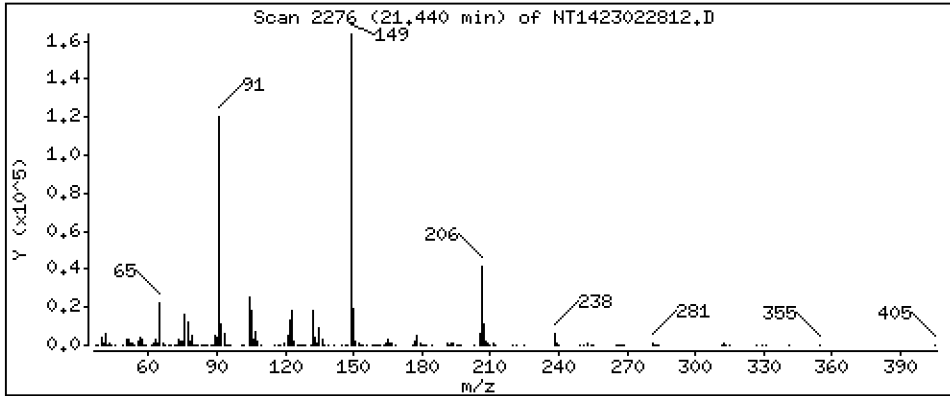
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 4,965 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

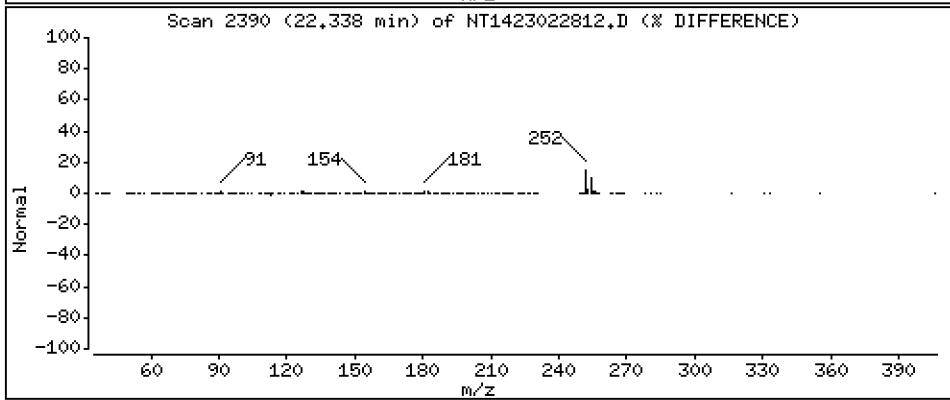
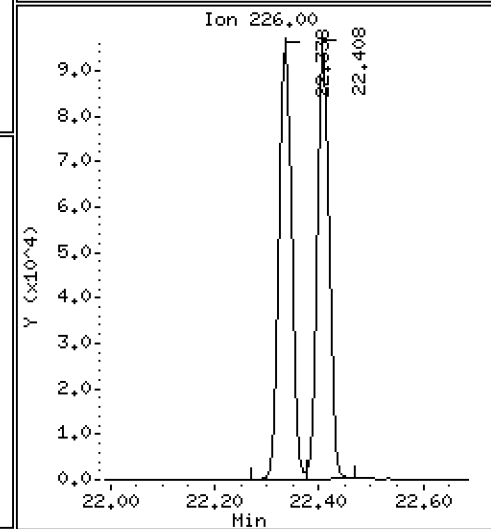
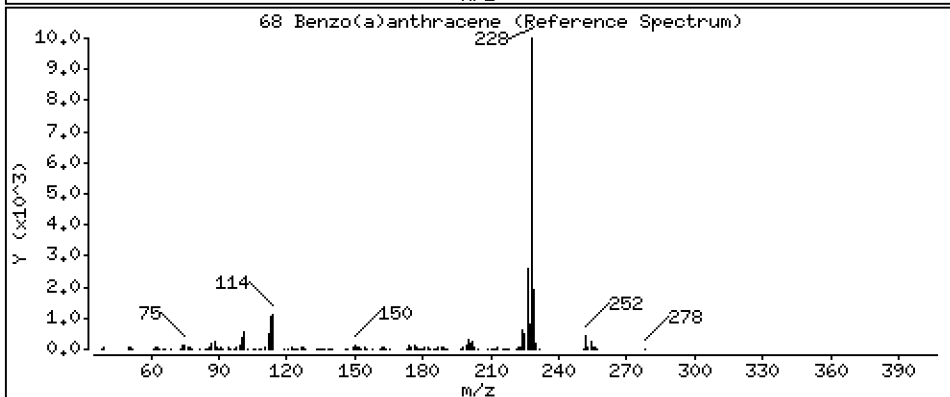
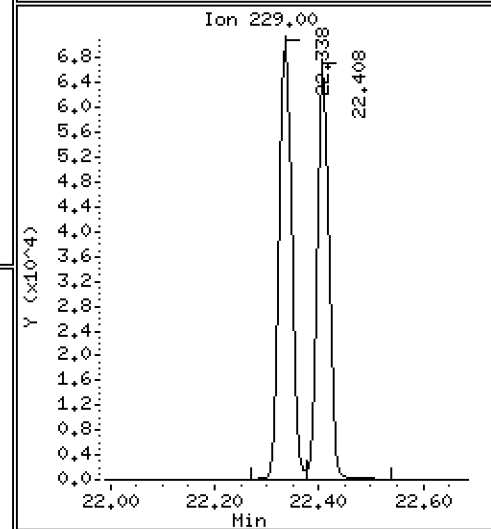
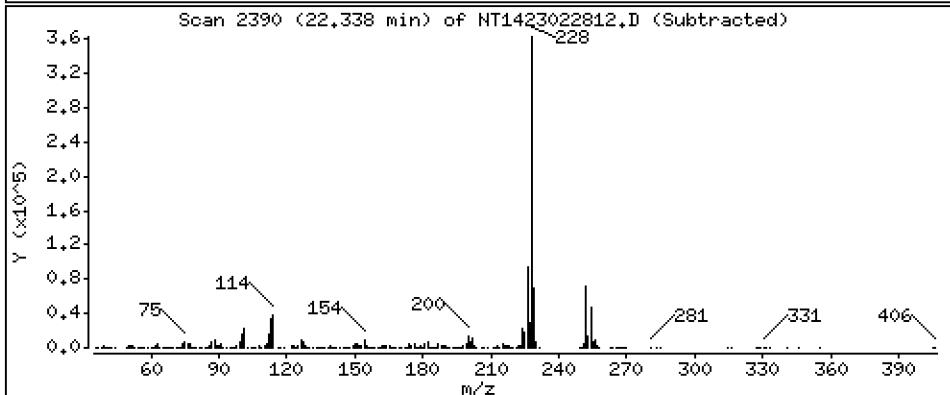
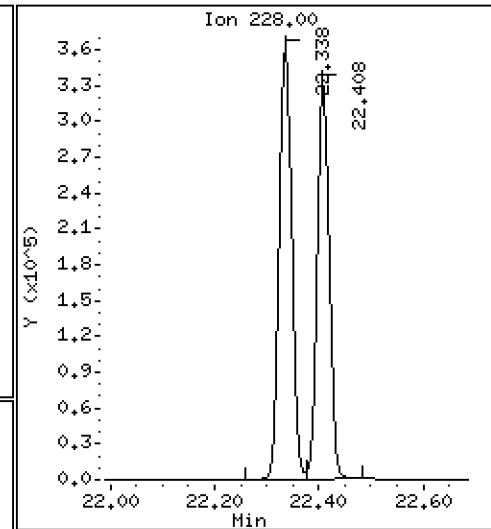
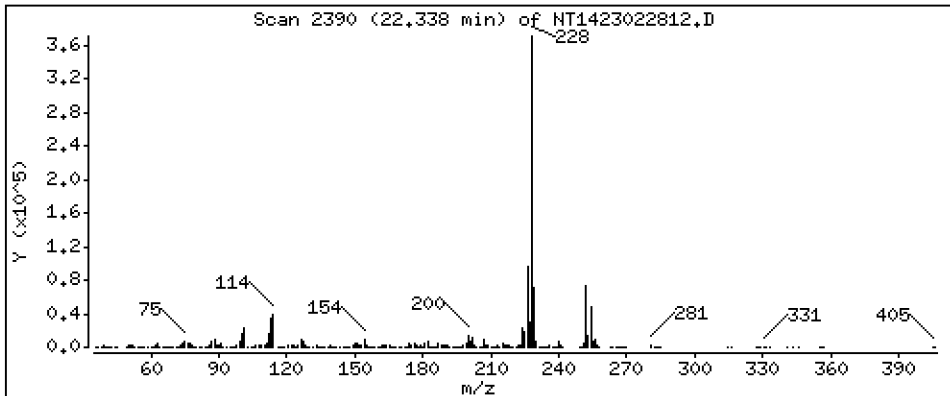
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 4,917 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

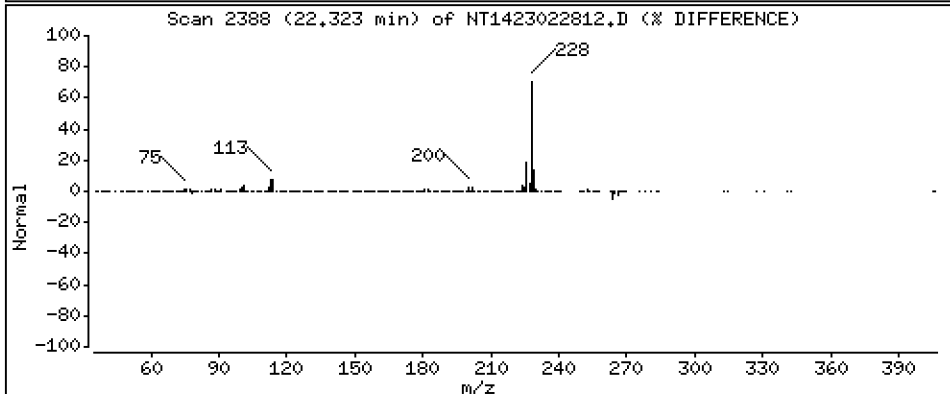
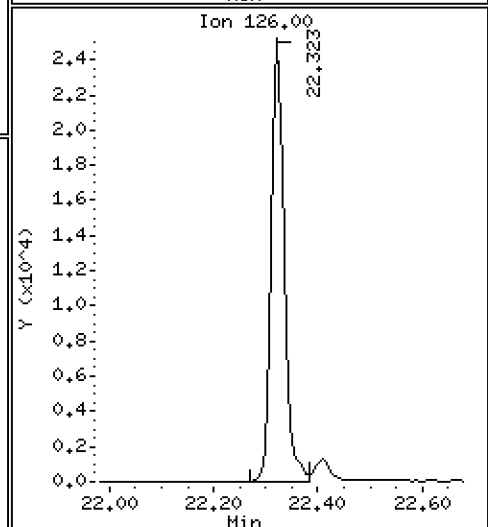
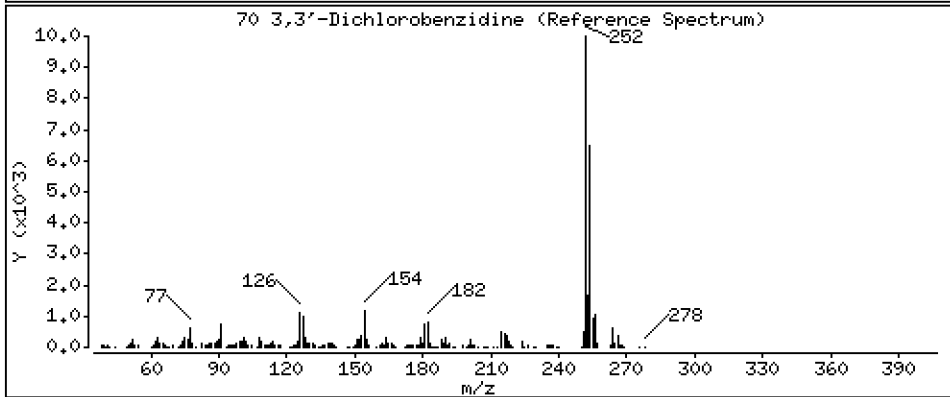
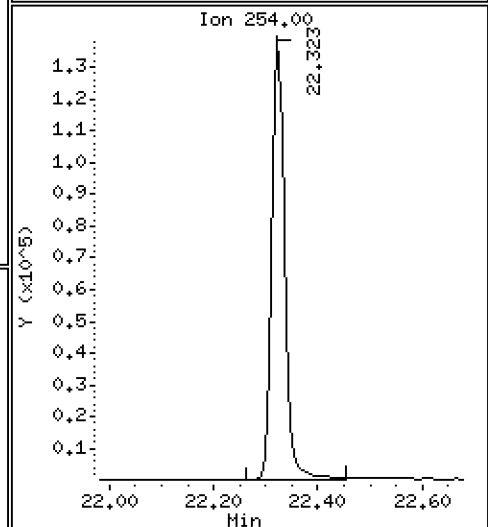
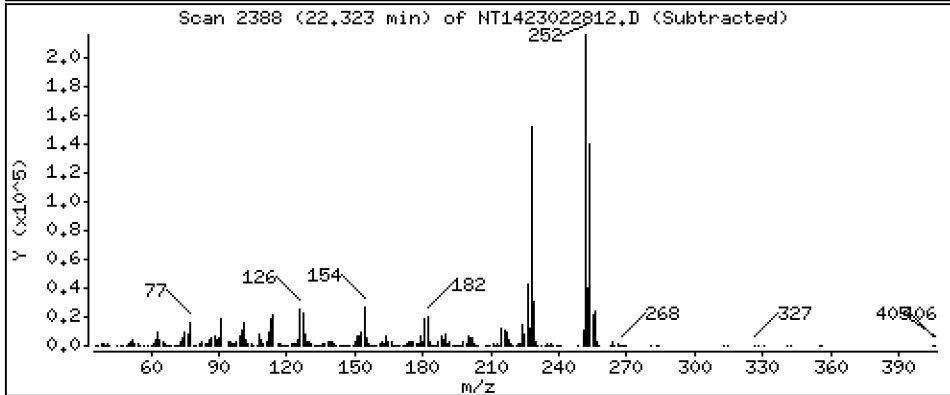
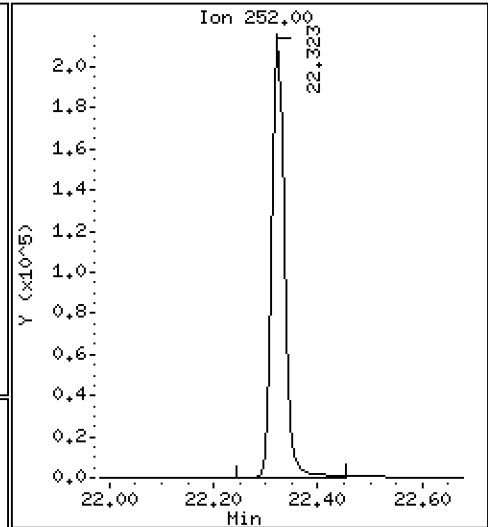
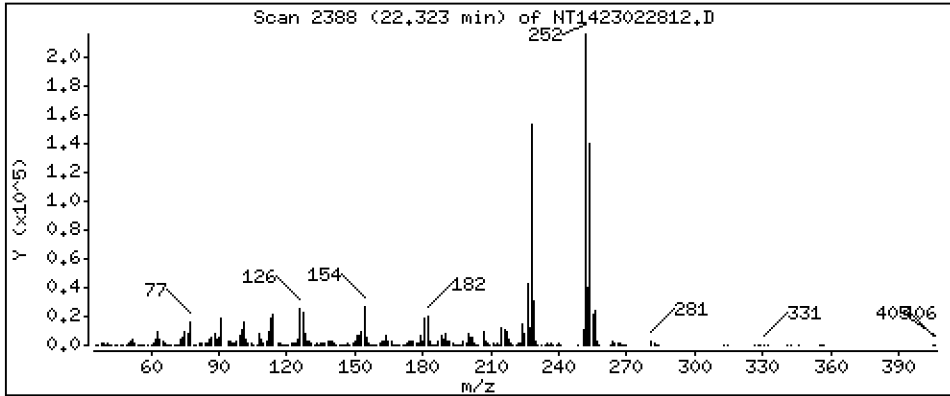
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

70 3,3'-Dichlorobenzidine

Concentration: 10,29 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

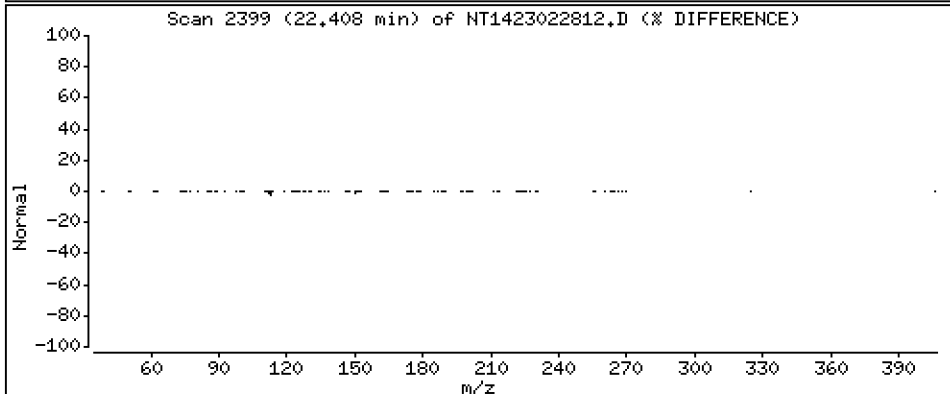
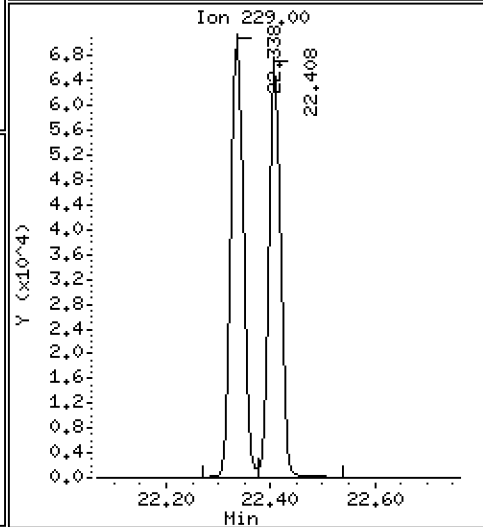
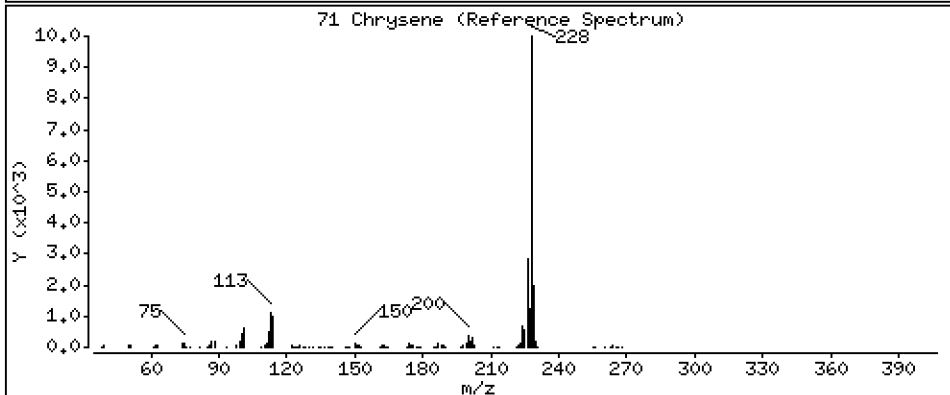
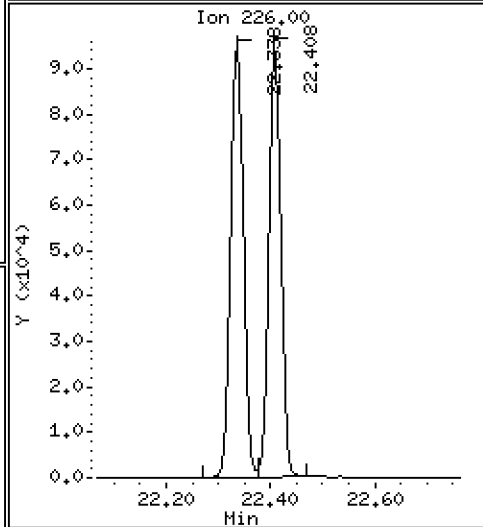
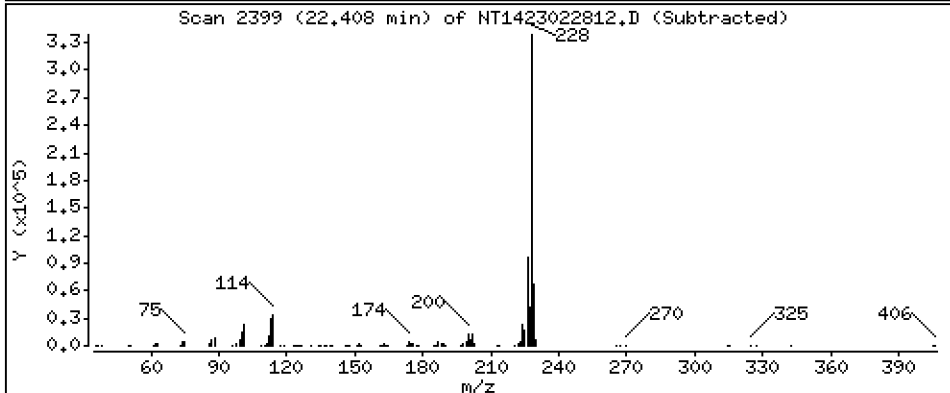
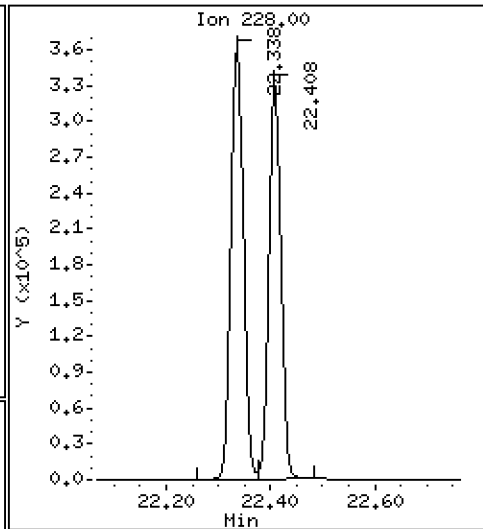
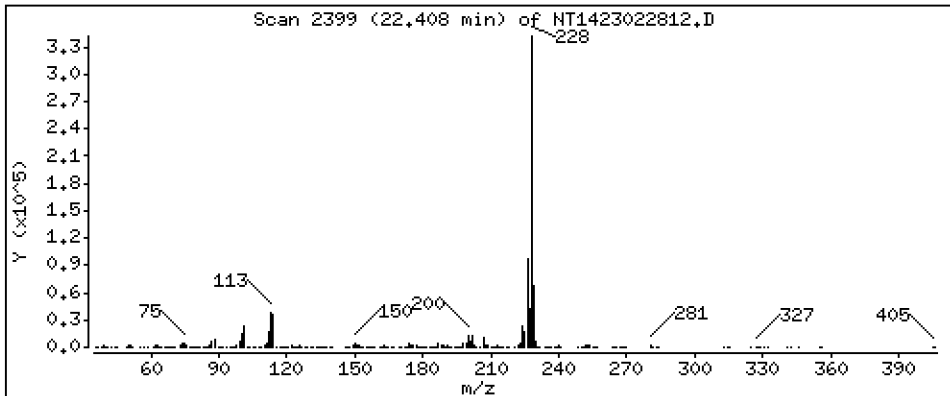
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 4,556 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

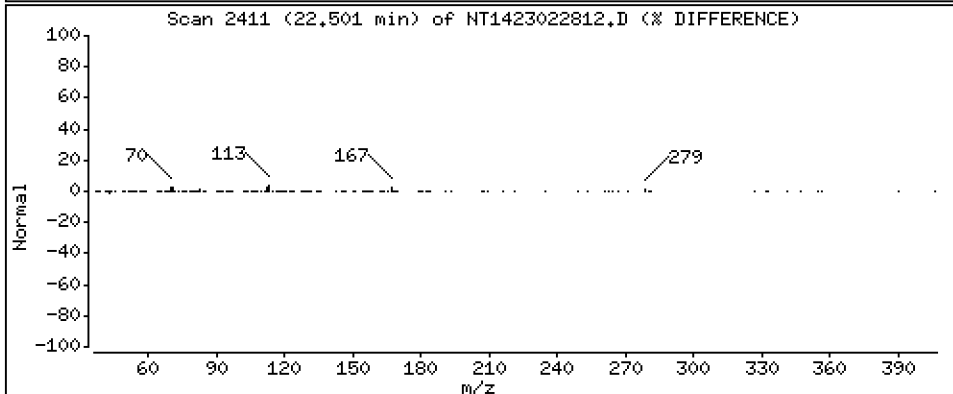
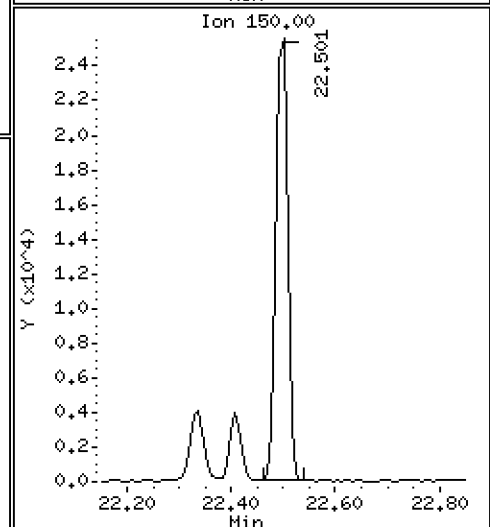
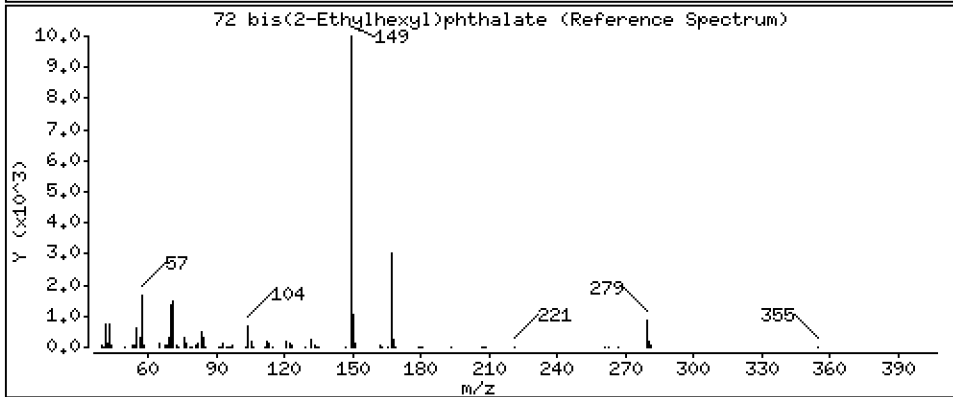
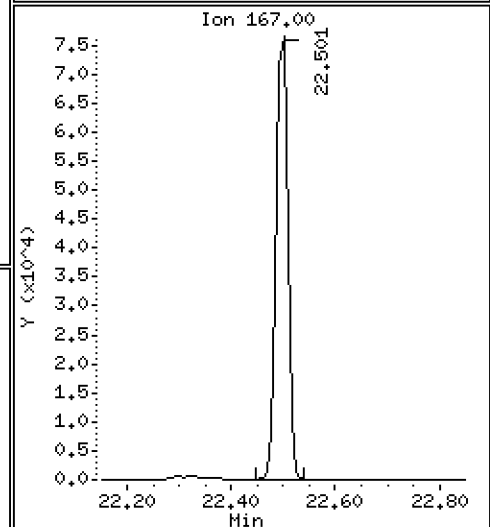
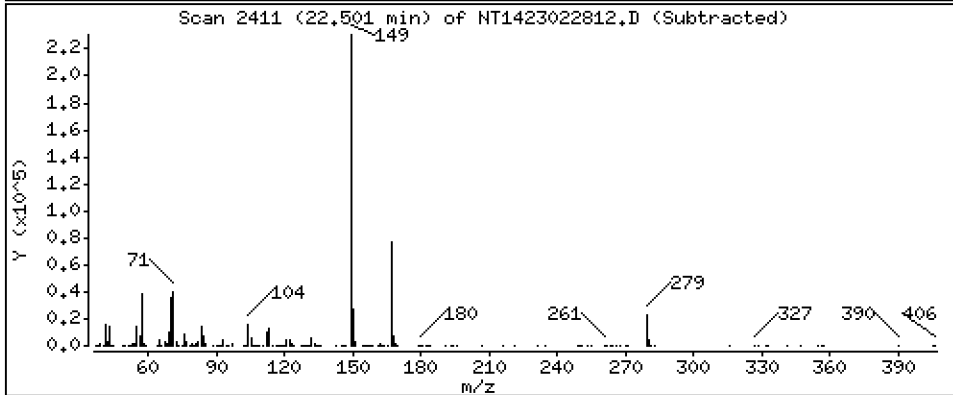
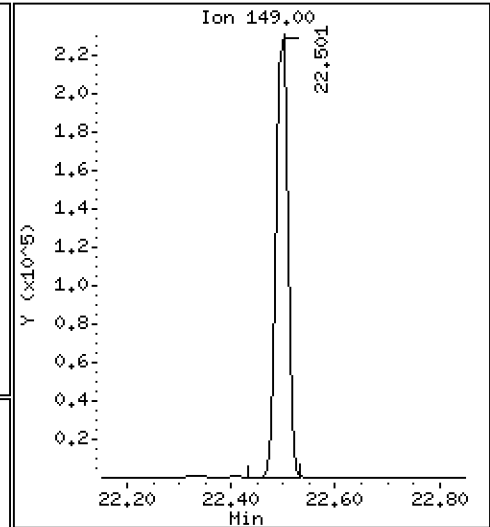
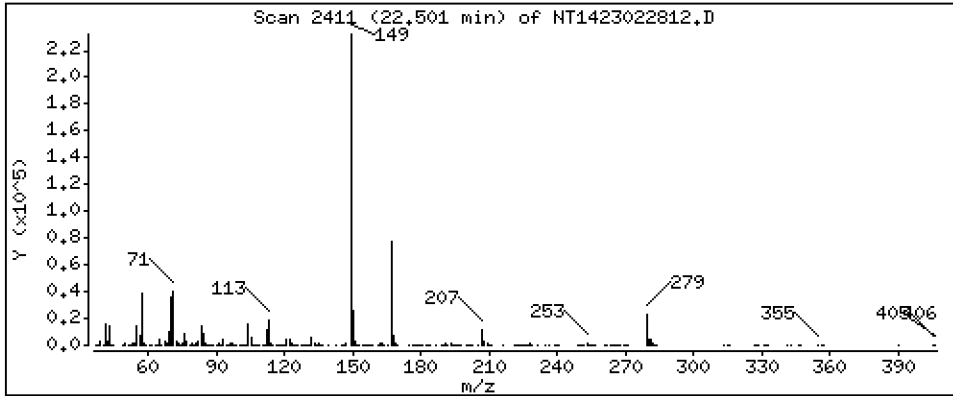
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 5,277 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

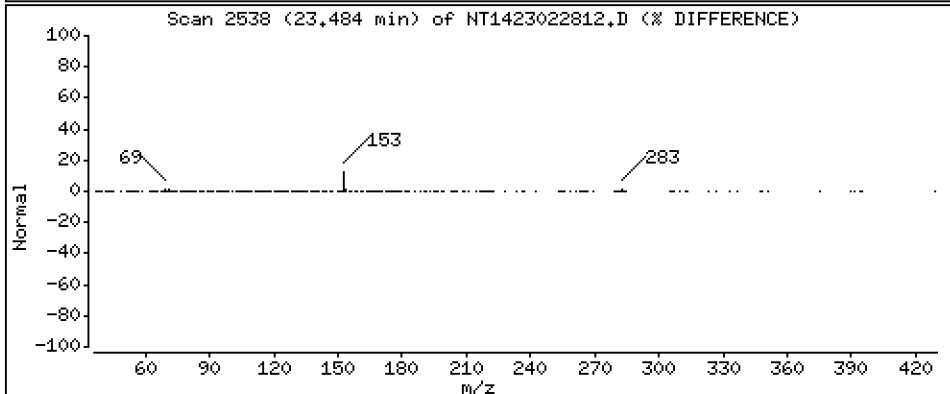
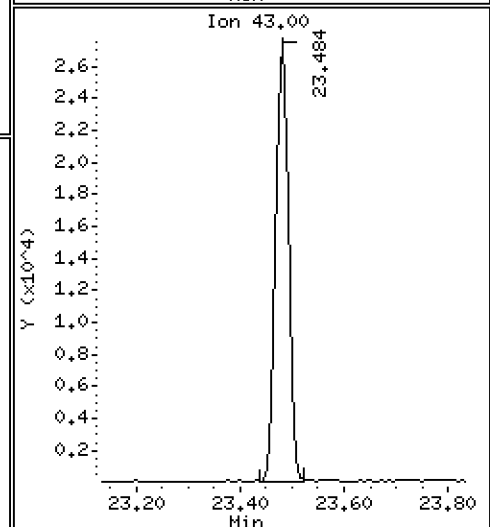
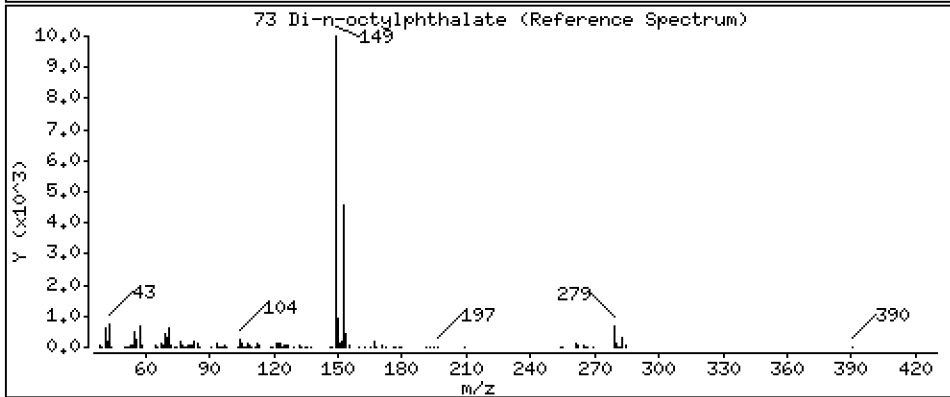
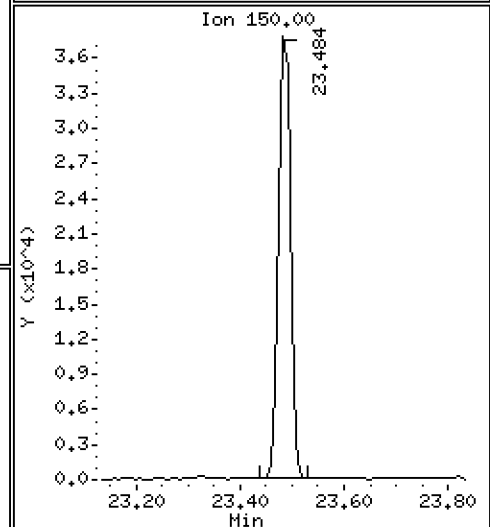
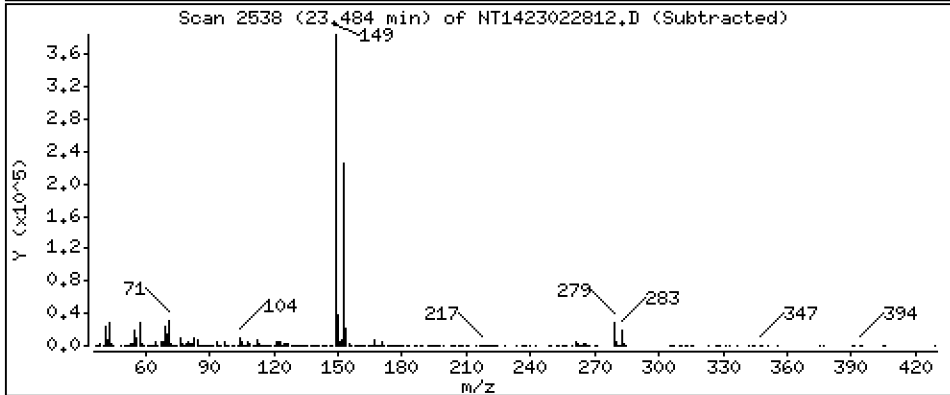
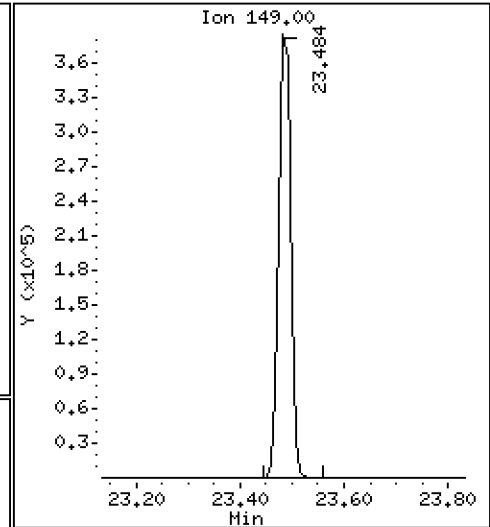
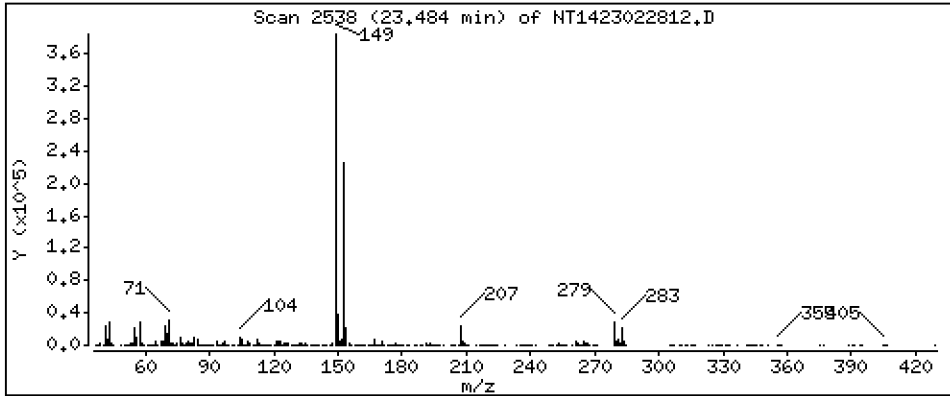
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 5,183 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

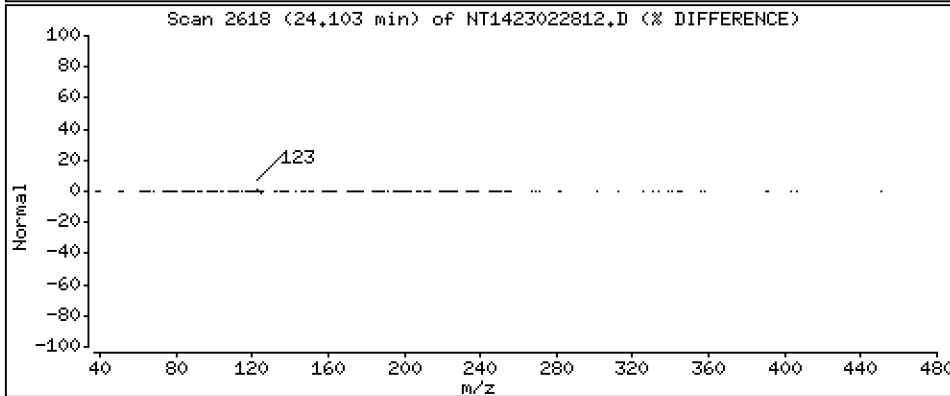
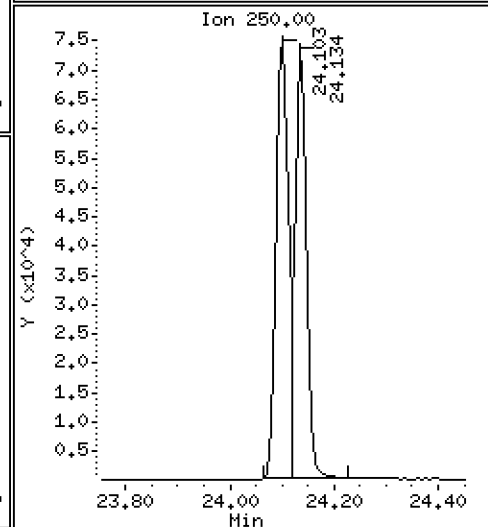
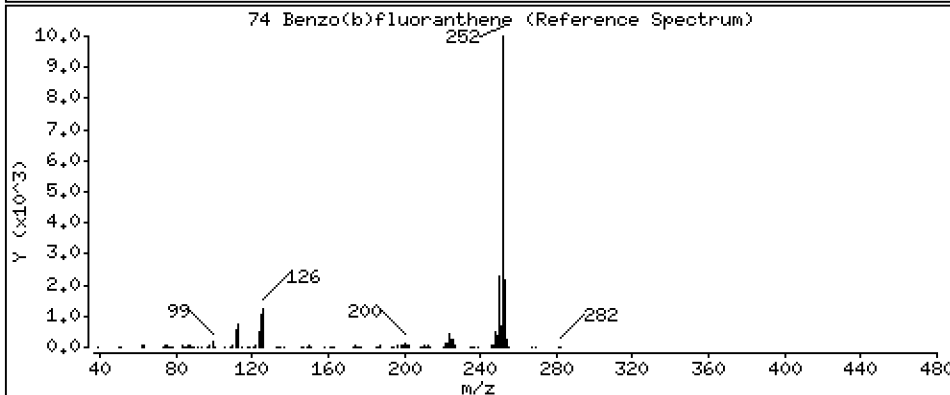
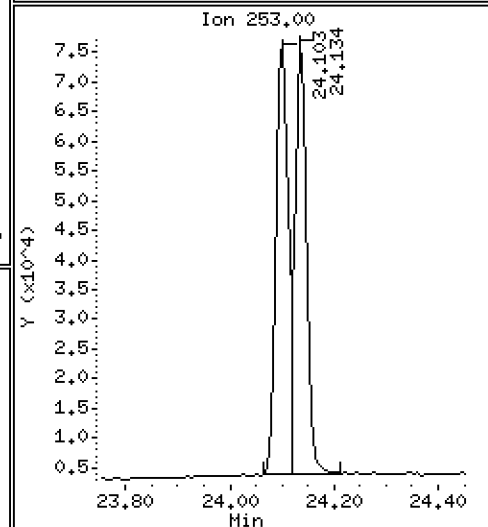
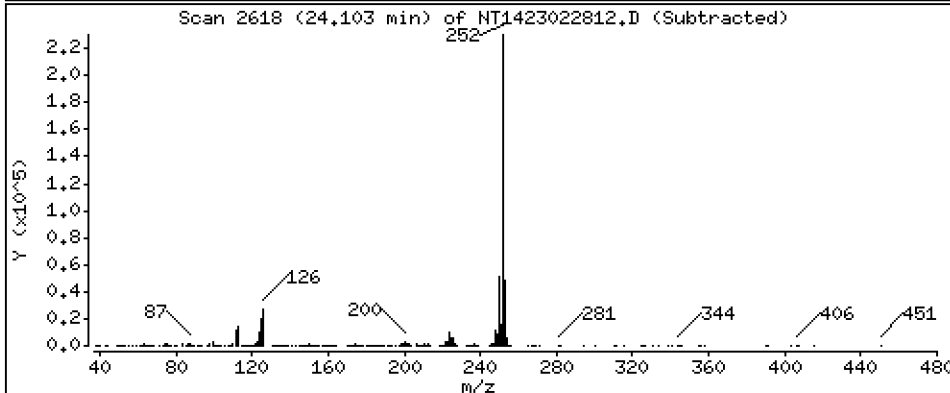
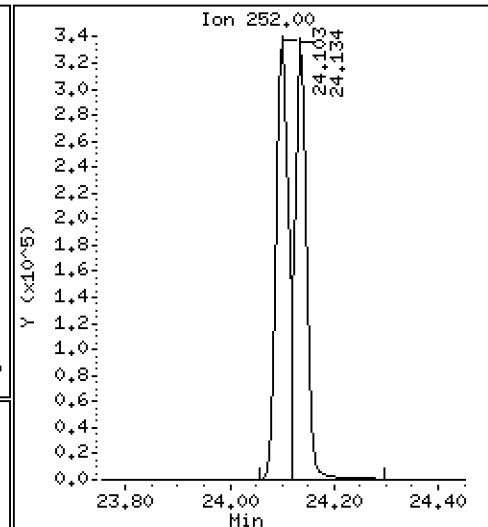
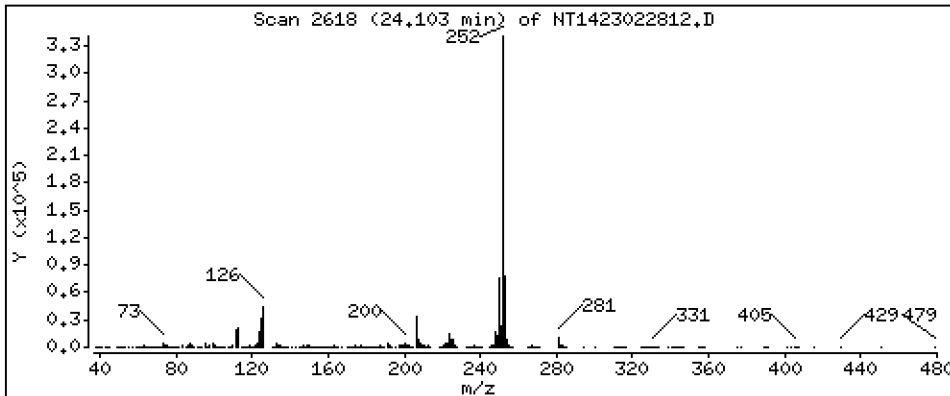
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 4,872 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

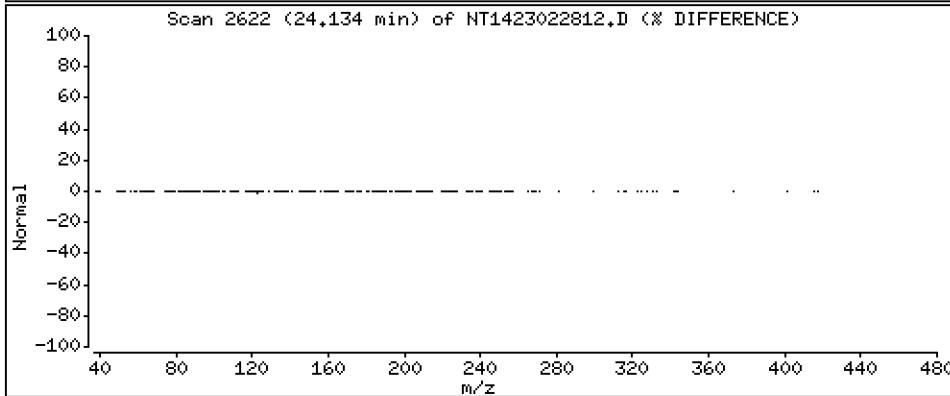
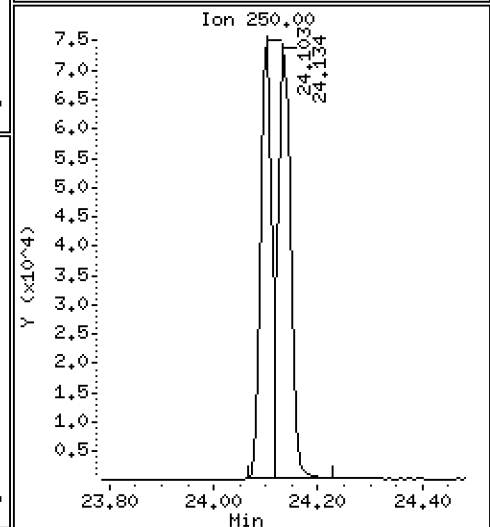
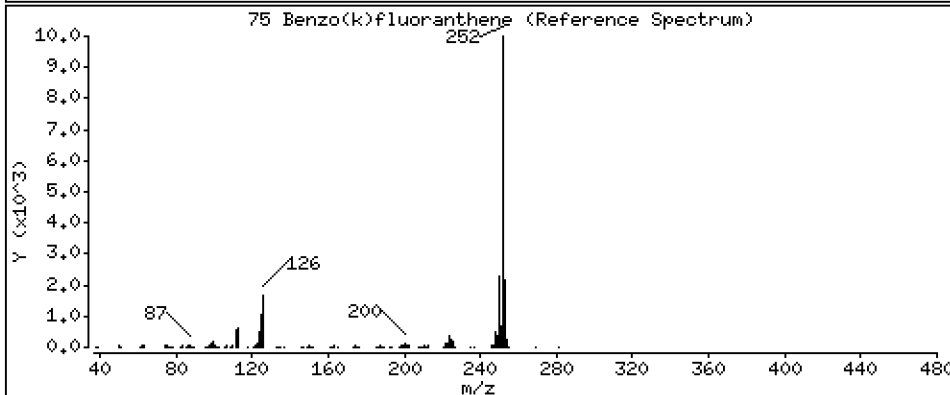
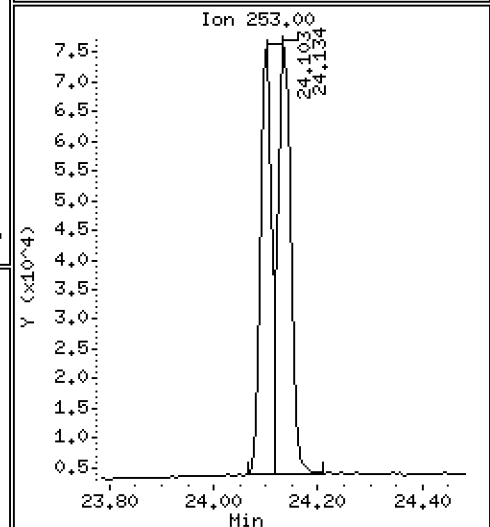
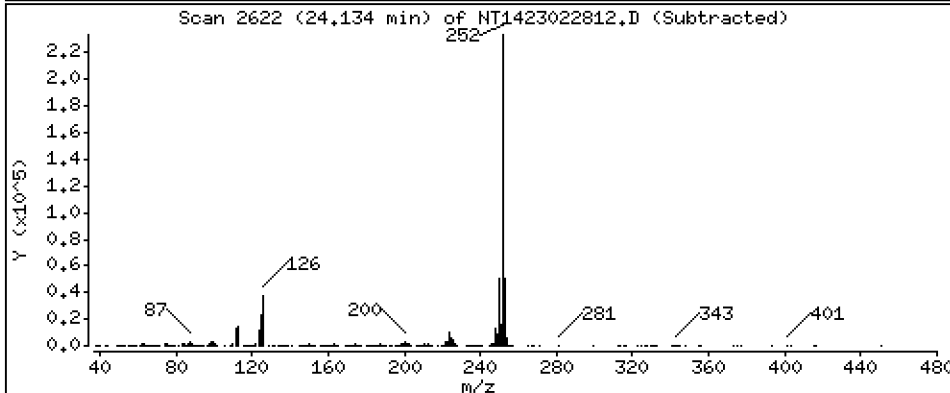
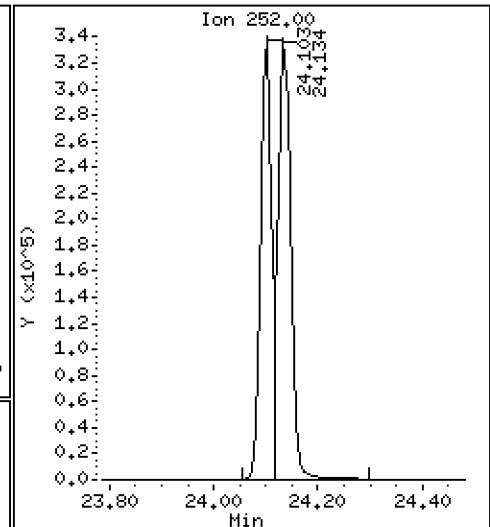
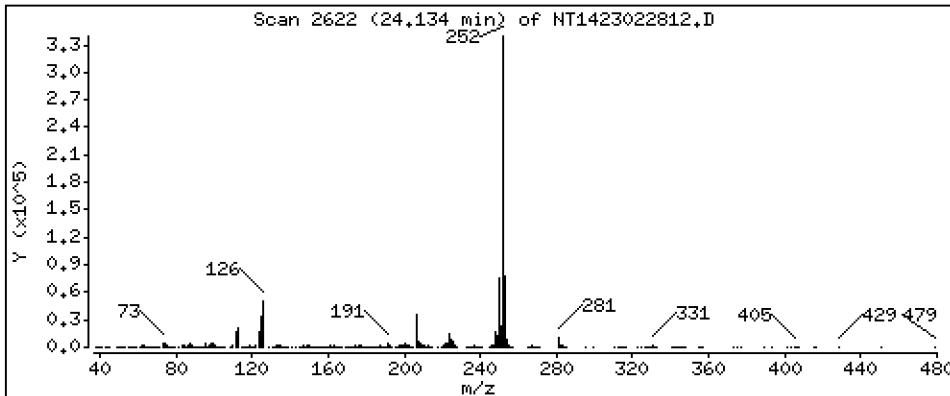
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 4,663 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

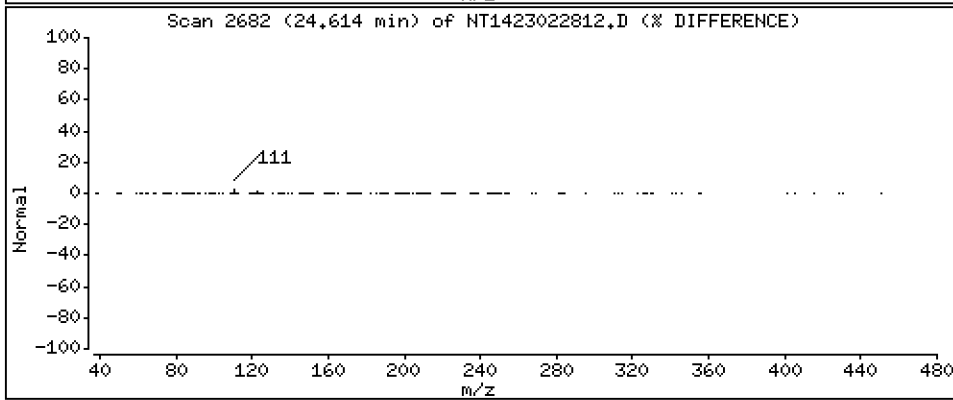
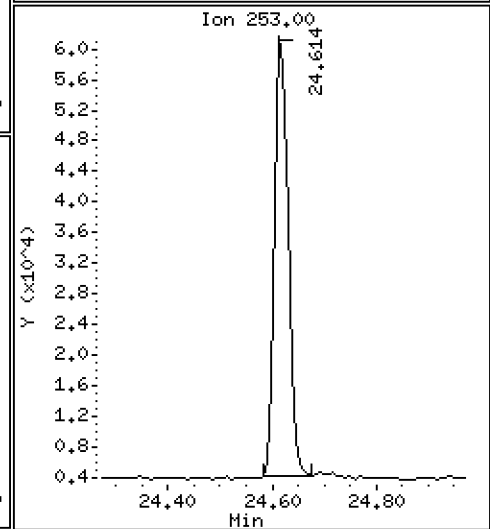
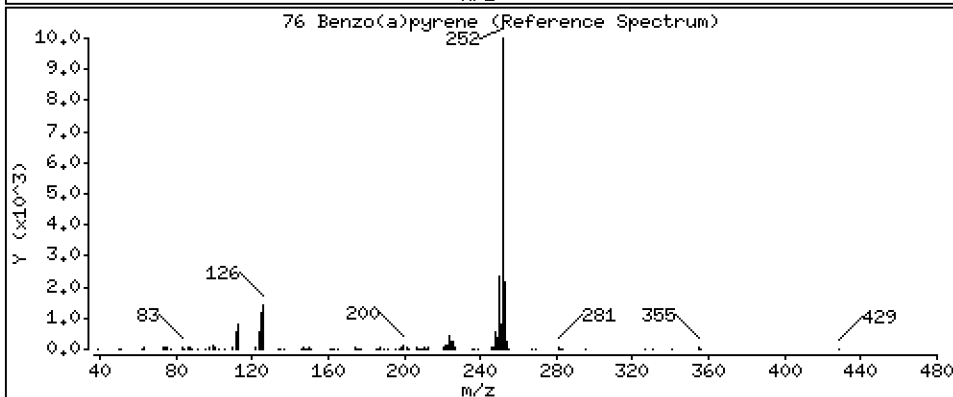
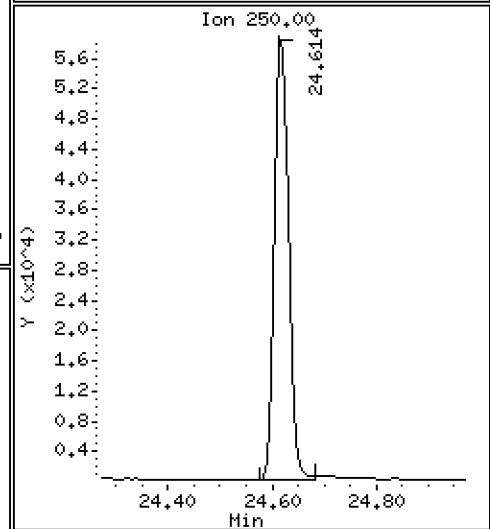
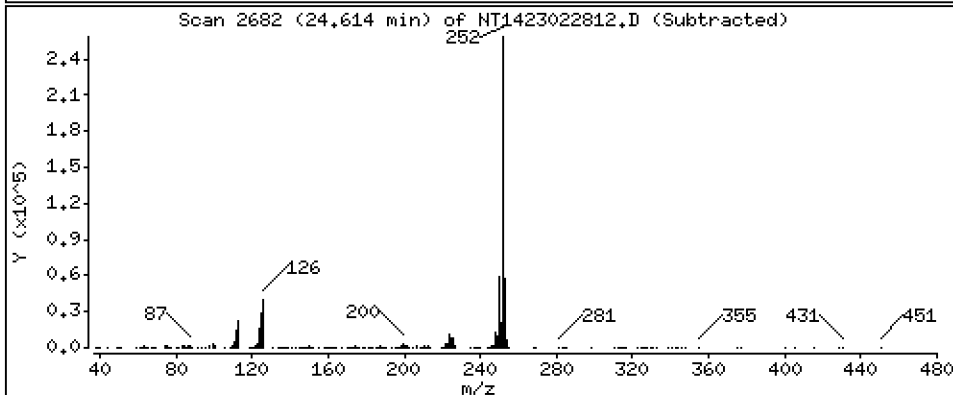
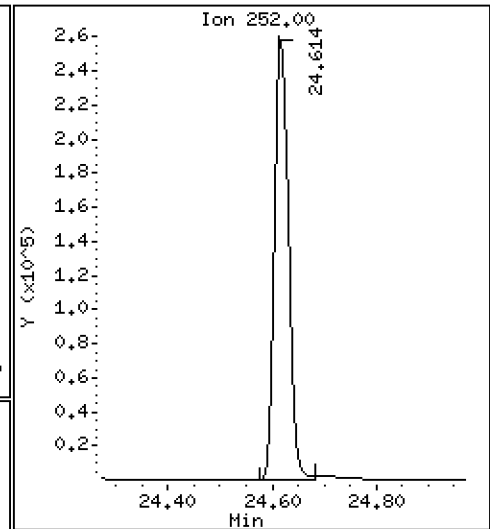
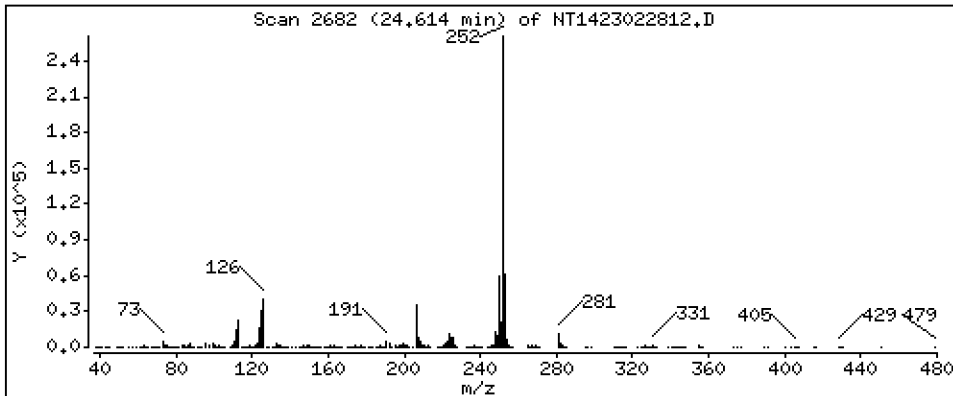
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 4,886 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

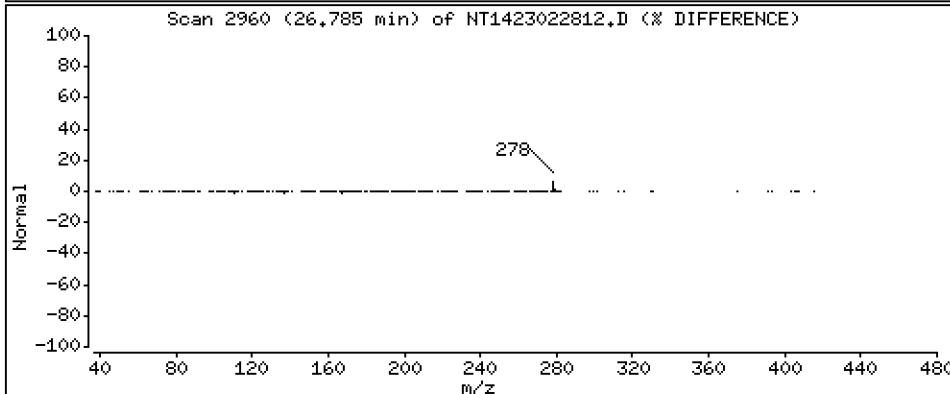
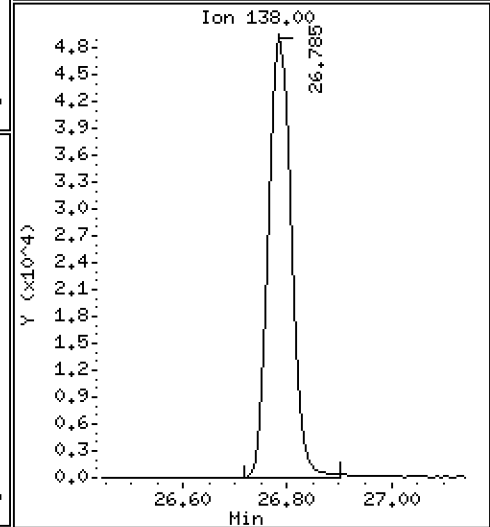
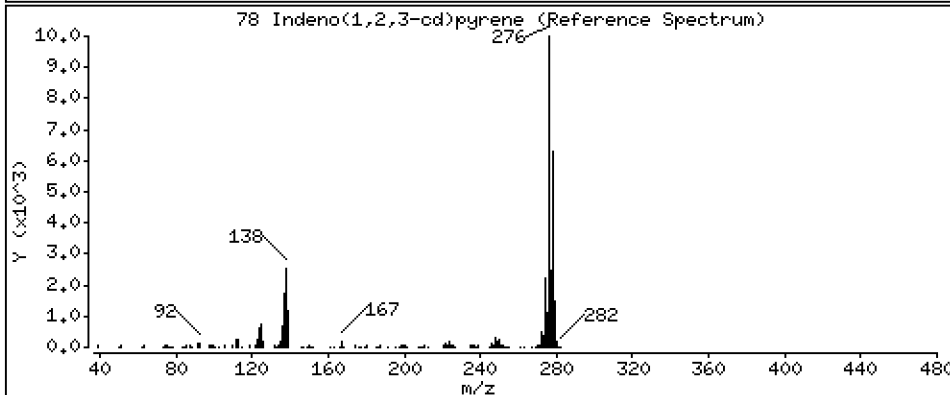
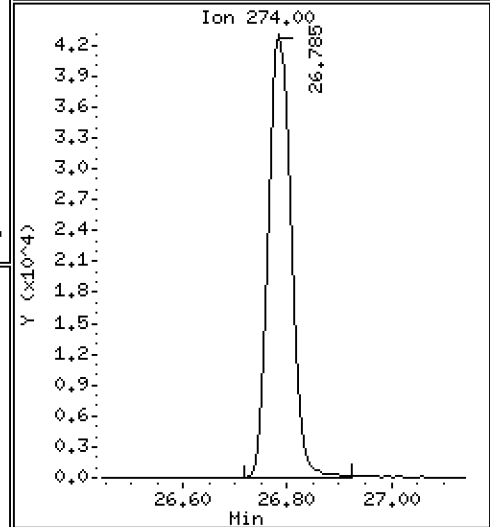
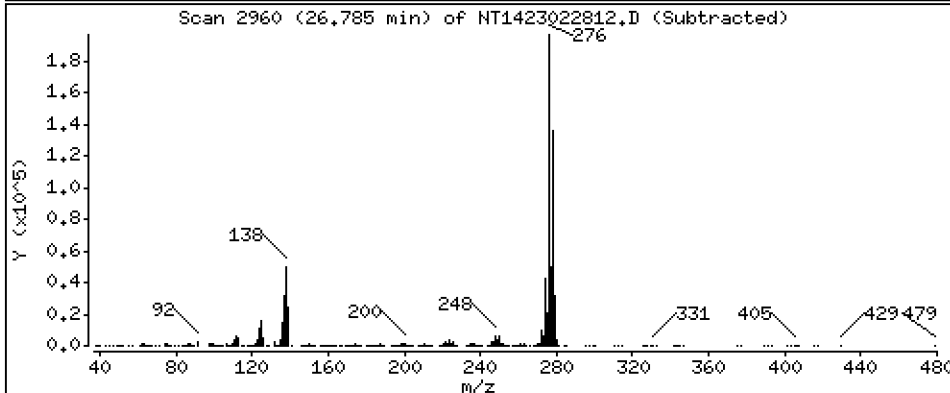
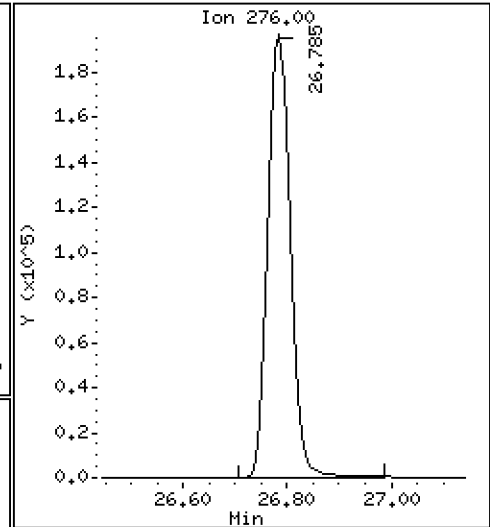
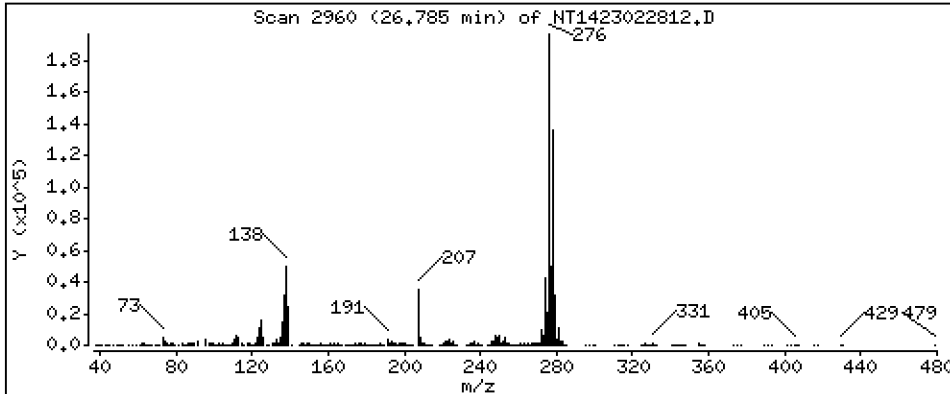
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 4,892 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

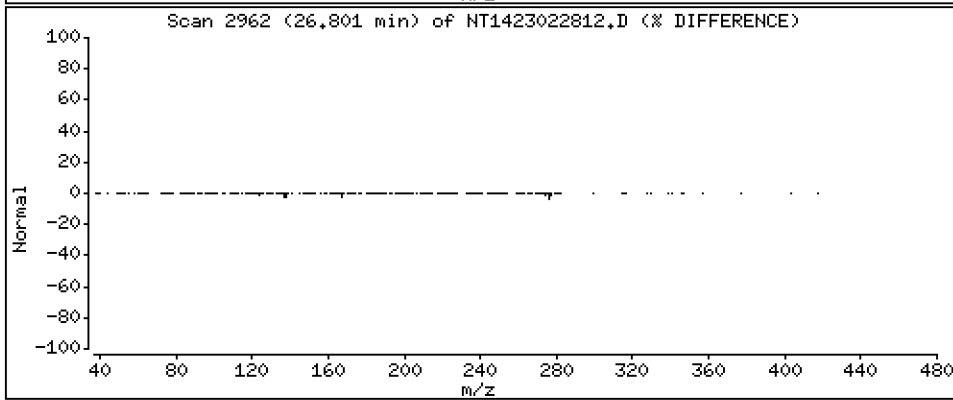
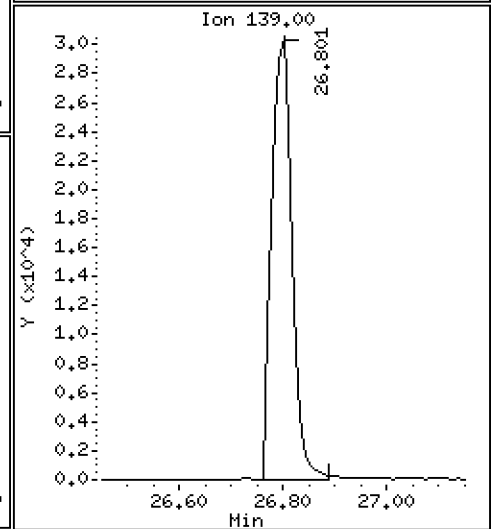
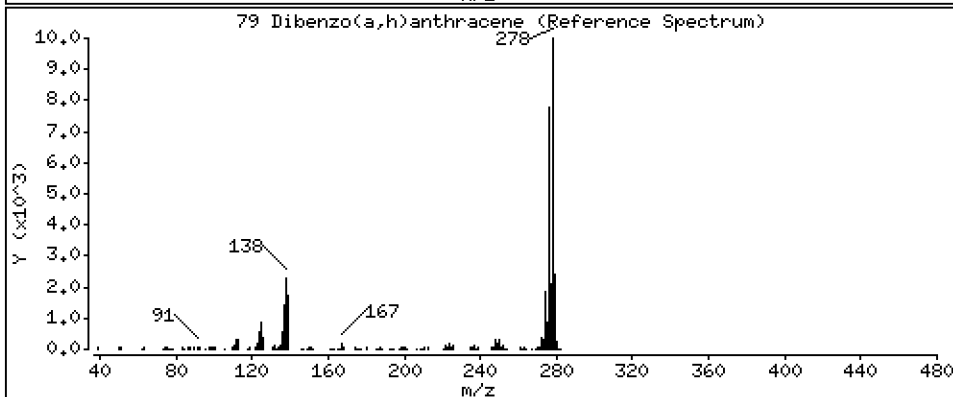
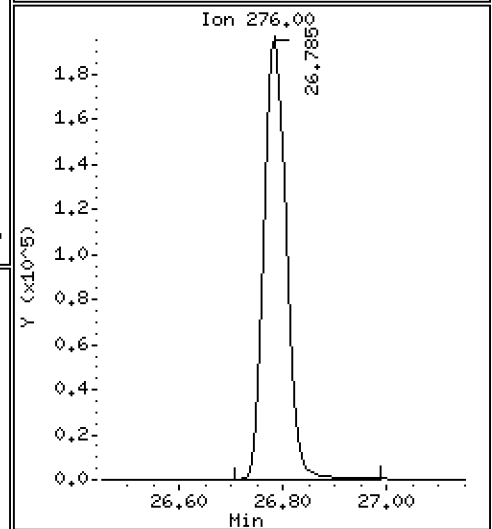
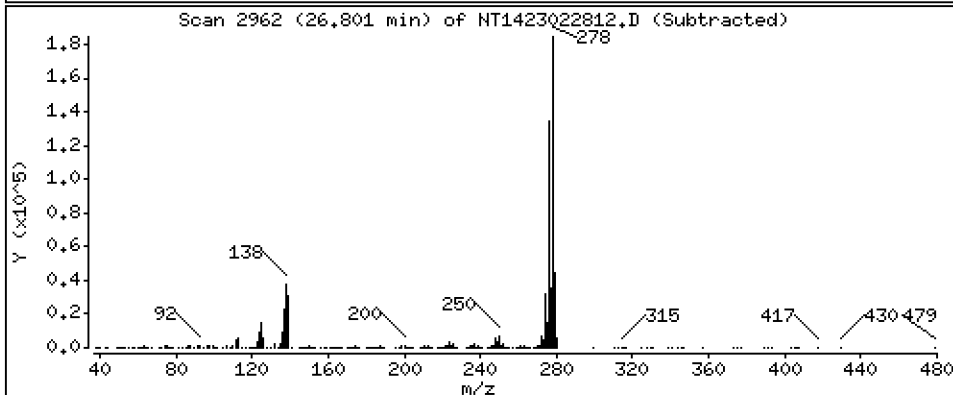
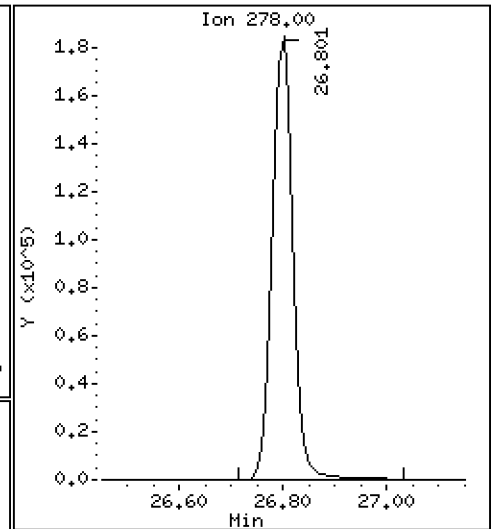
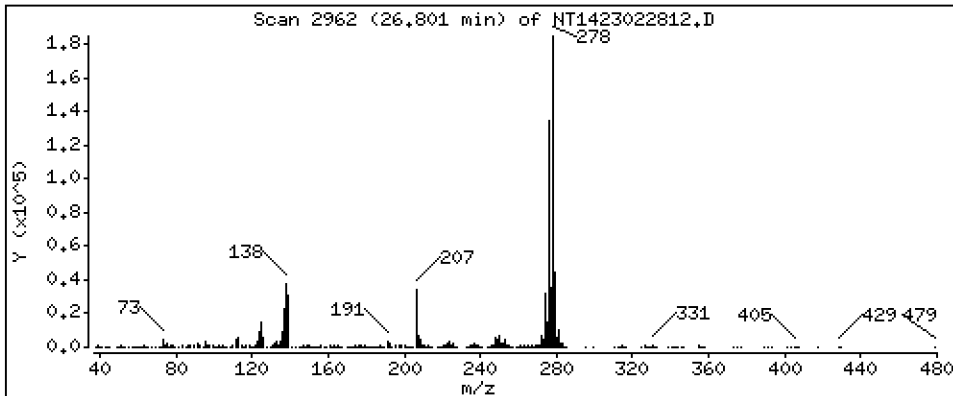
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 4,907 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

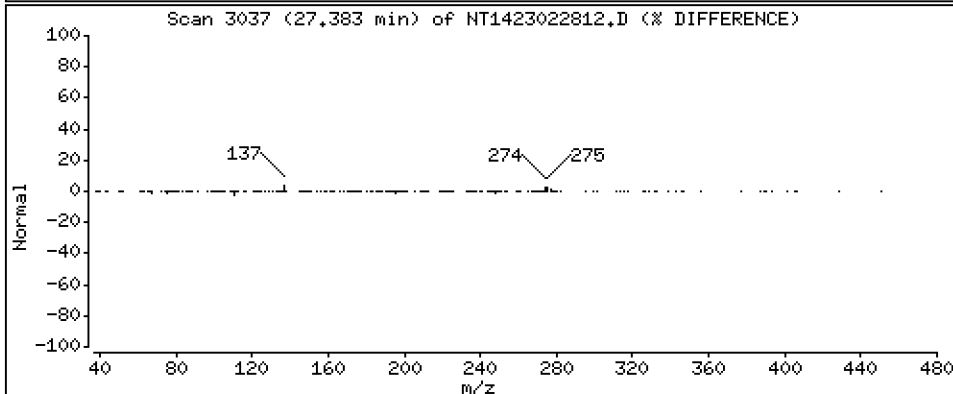
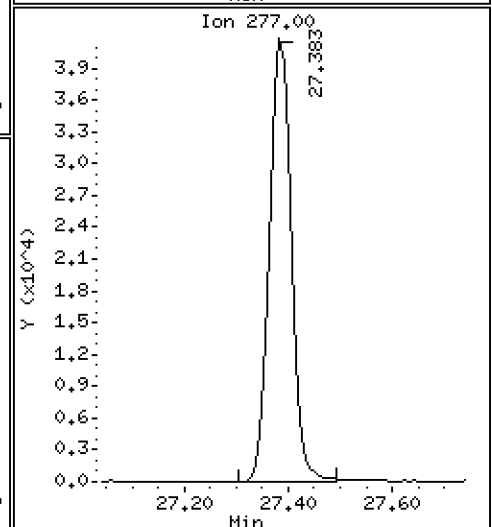
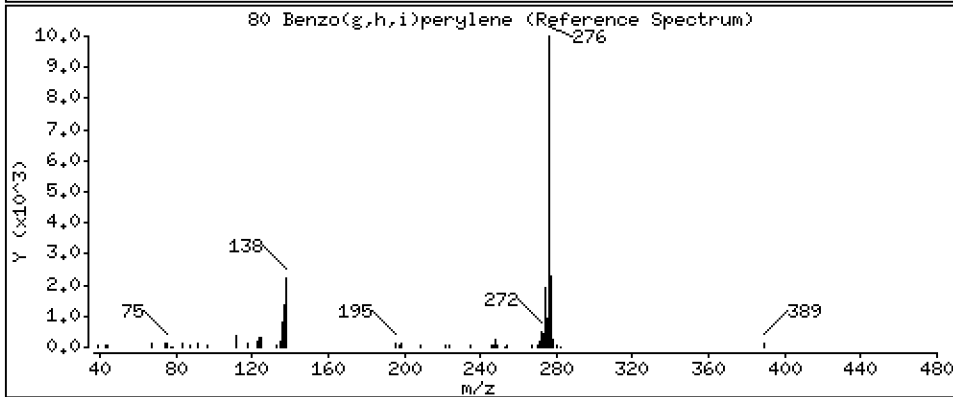
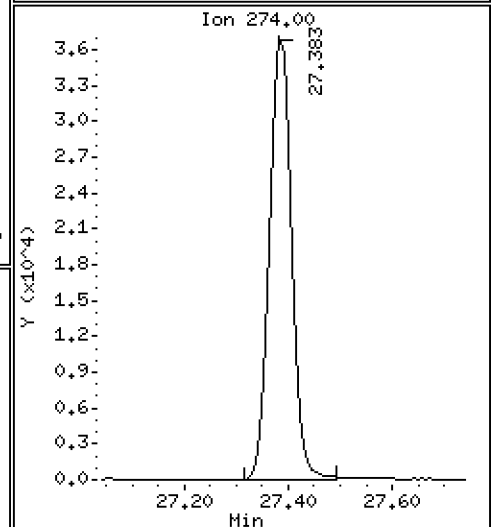
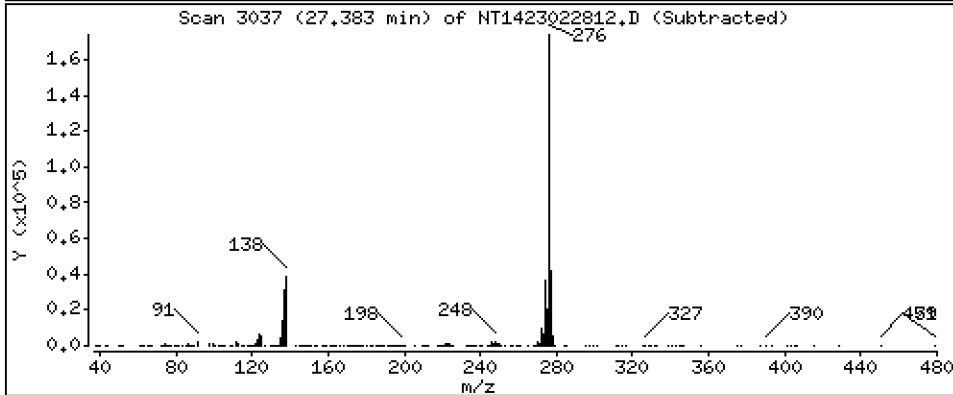
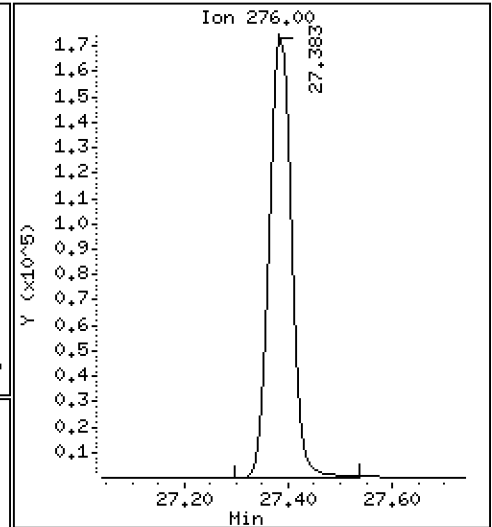
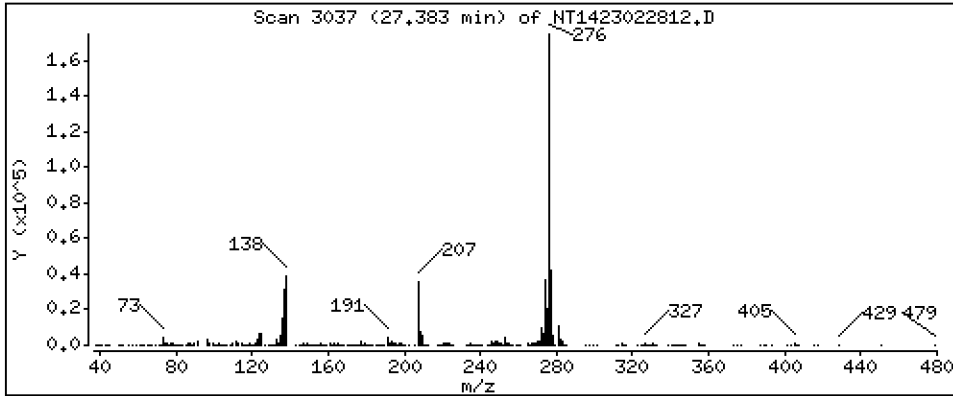
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 4,858 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

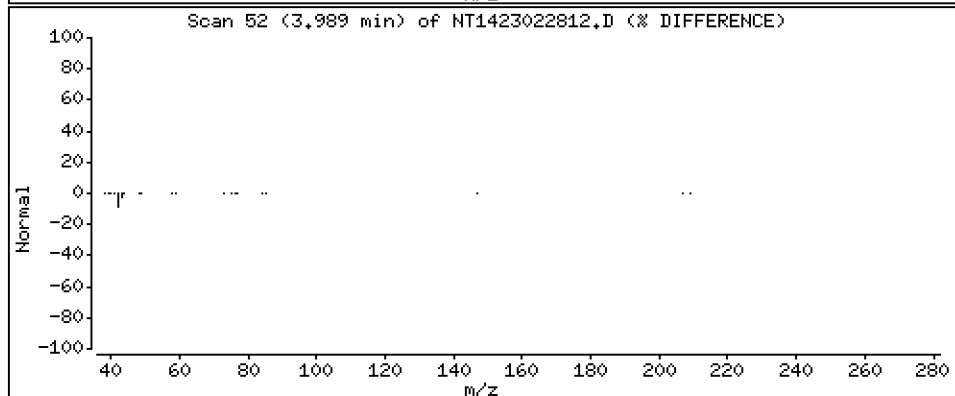
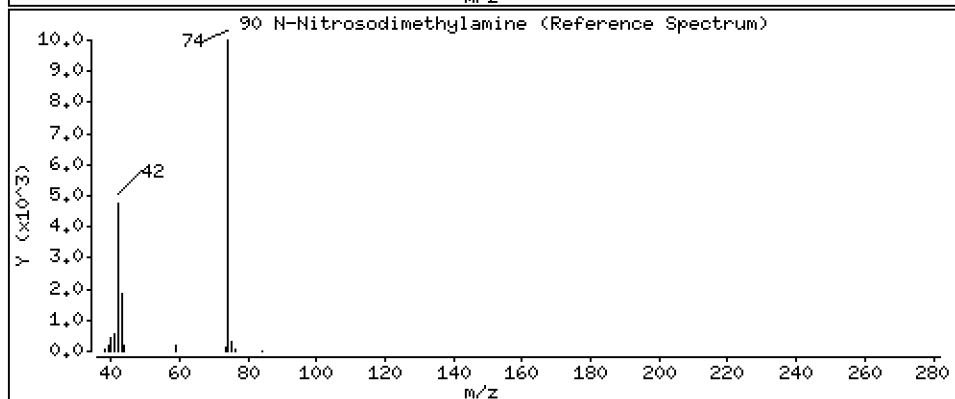
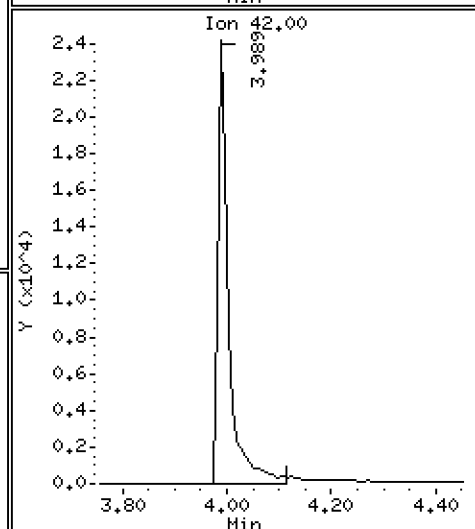
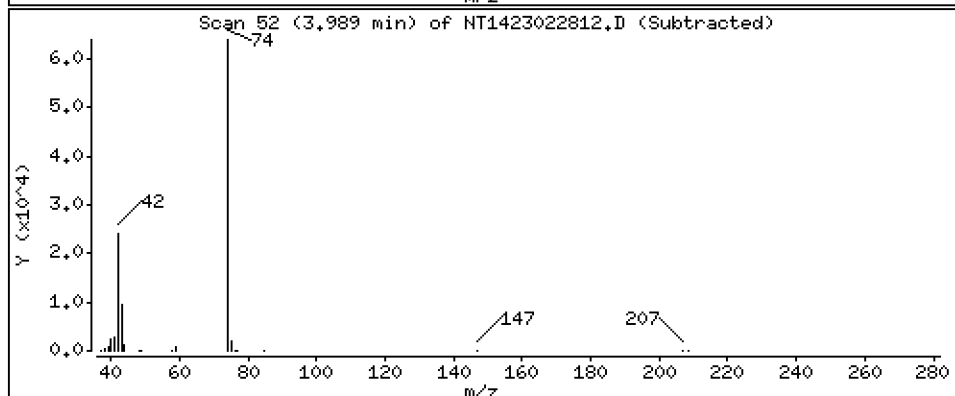
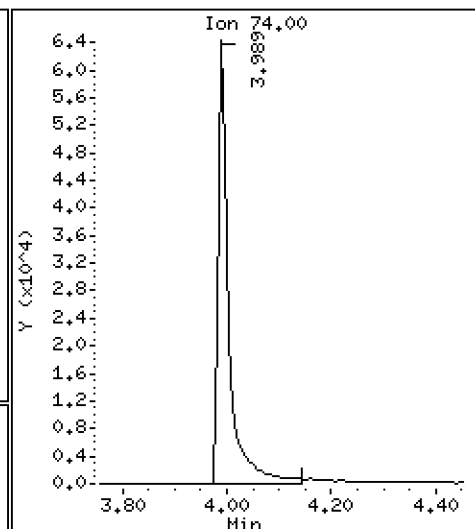
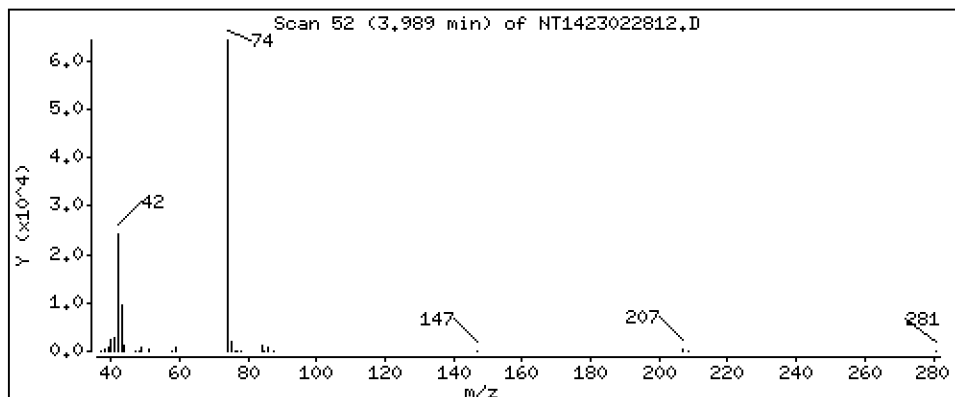
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

90 N-Nitrosodimethylamine

Concentration: 4,507 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

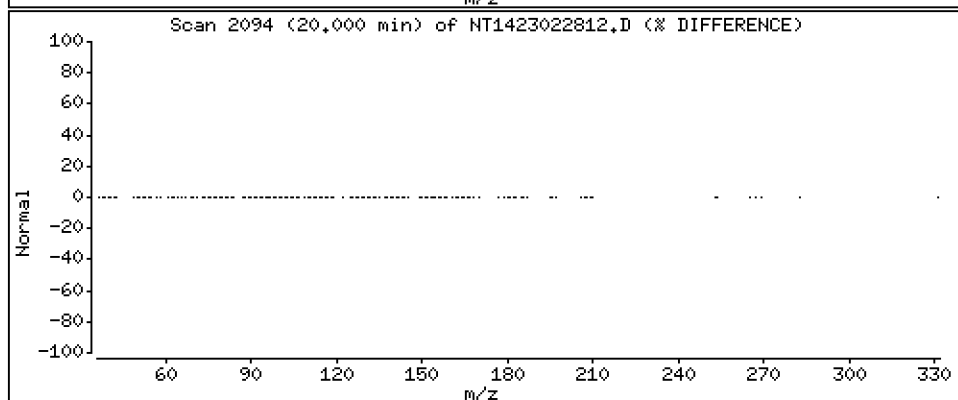
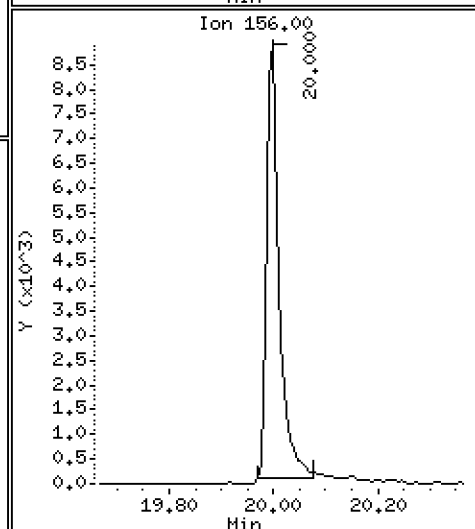
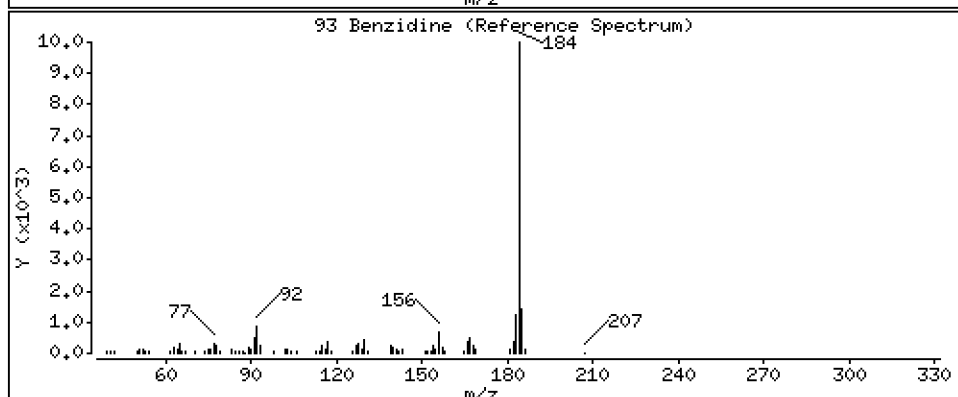
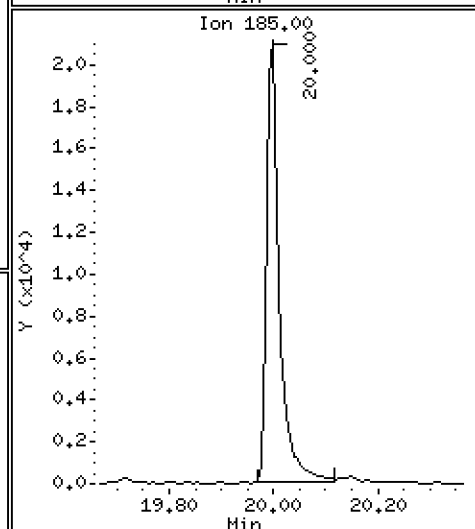
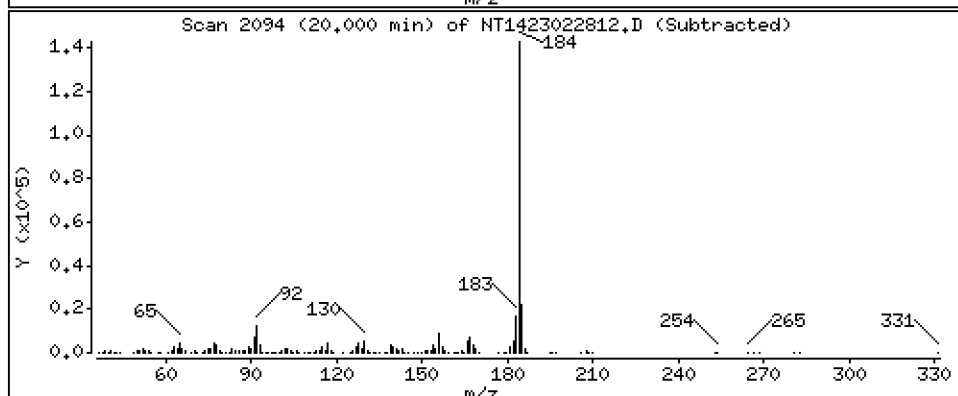
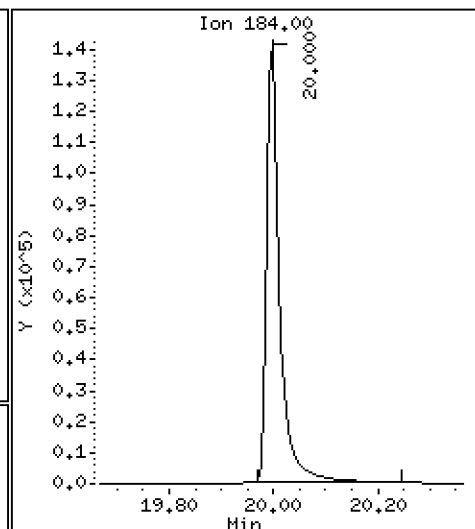
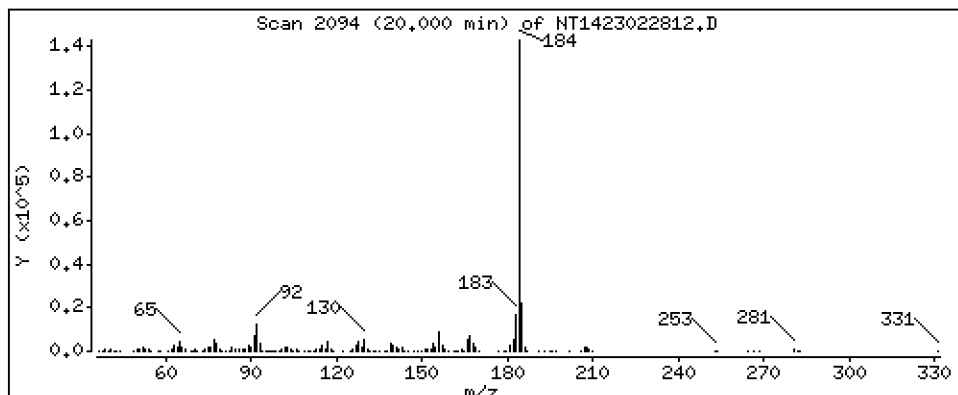
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

93 Benzidine

Concentration: 4,509 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

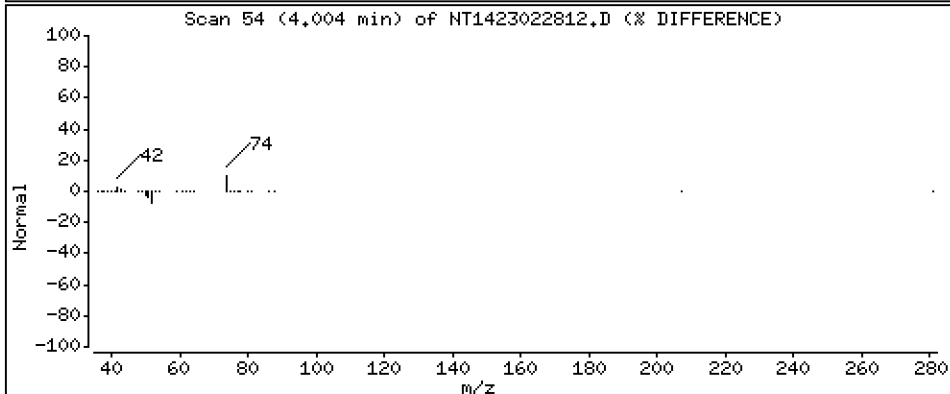
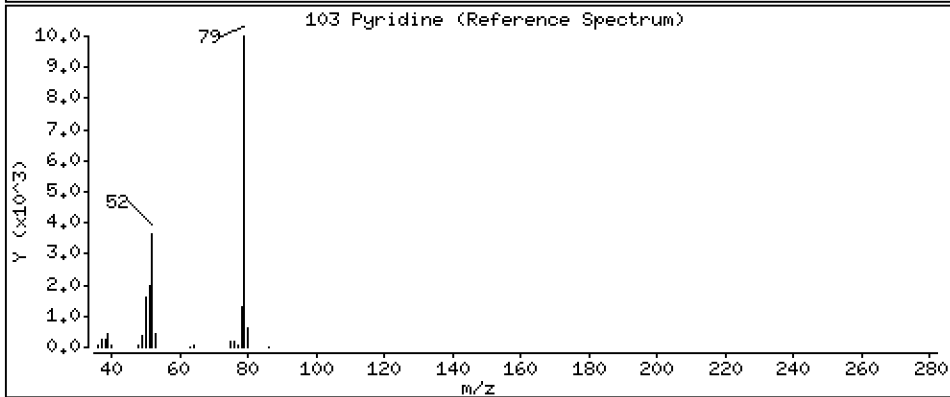
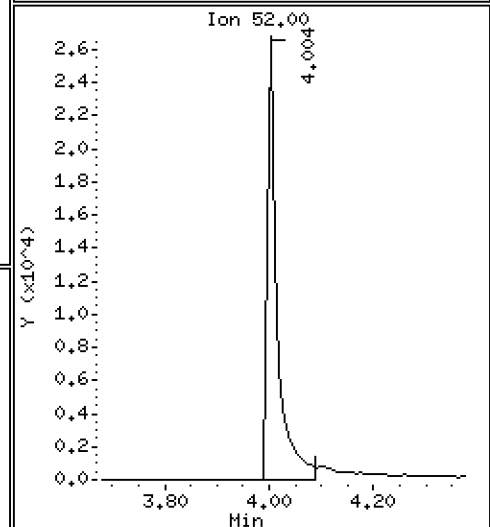
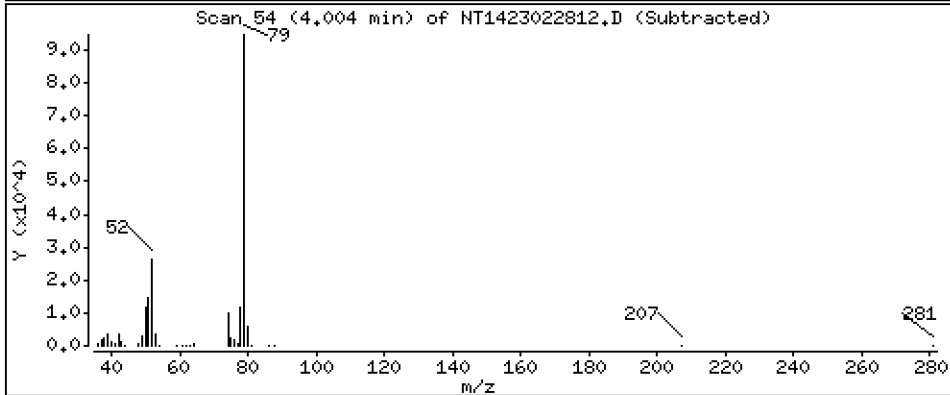
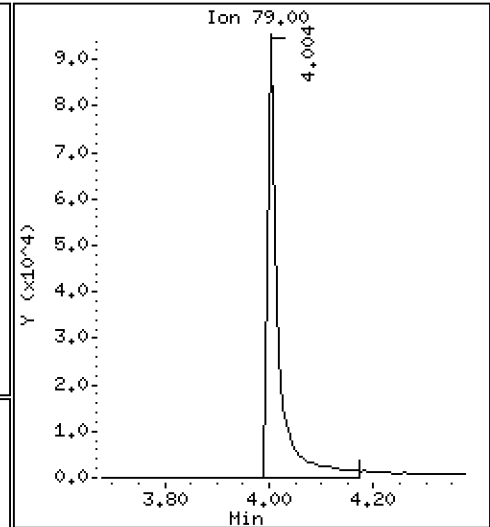
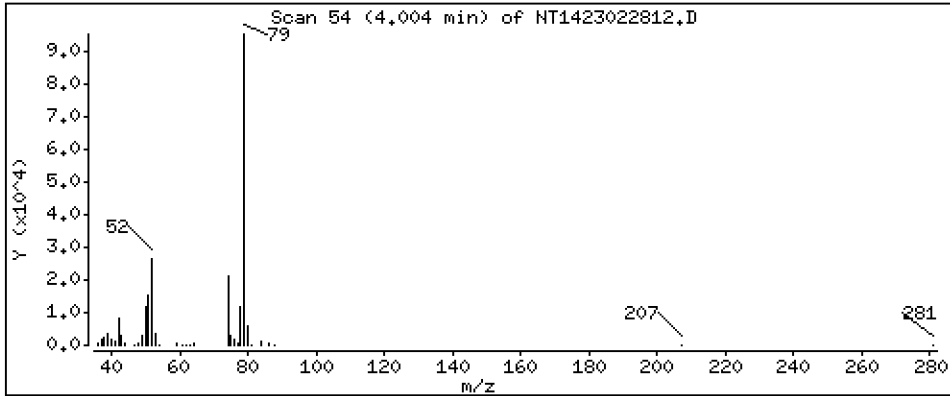
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

103 Pyridine

Concentration: 2,196 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

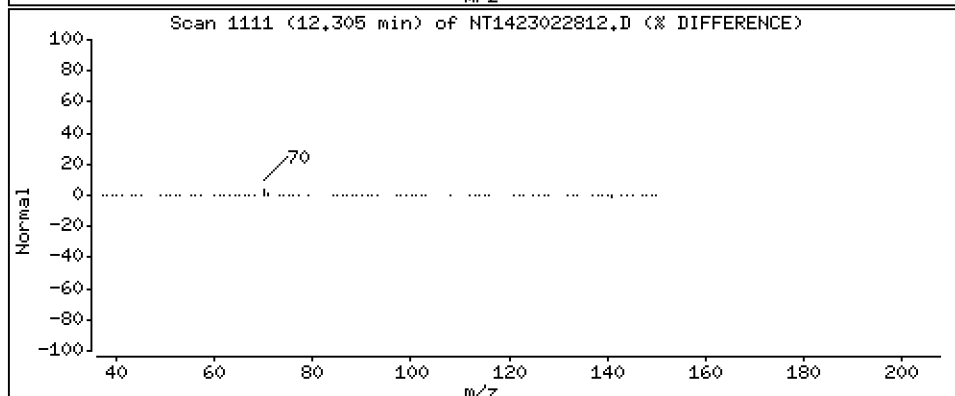
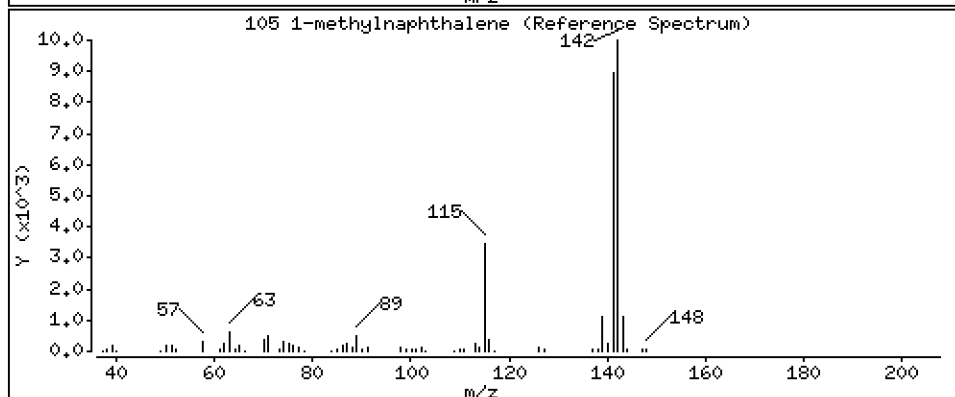
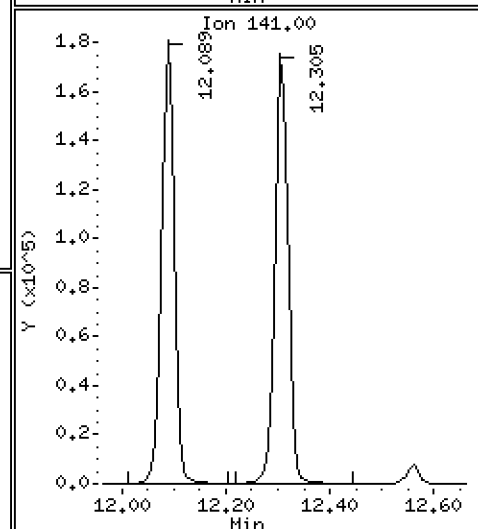
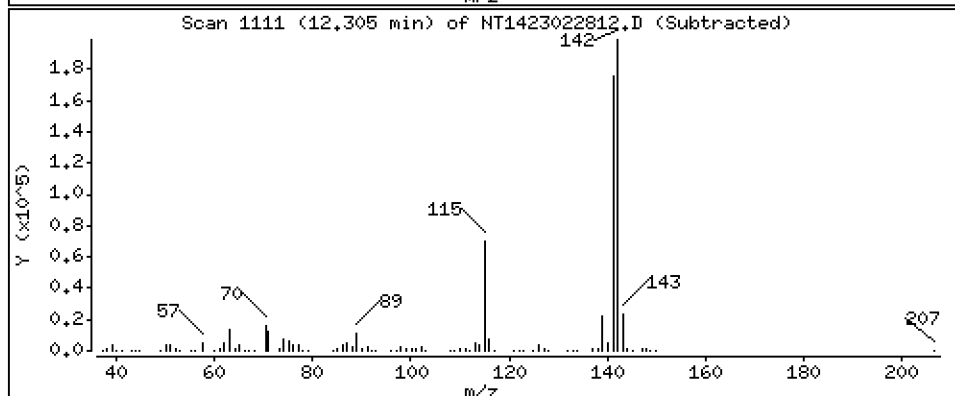
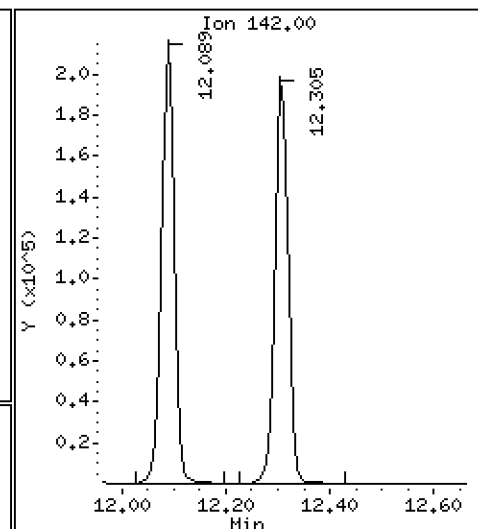
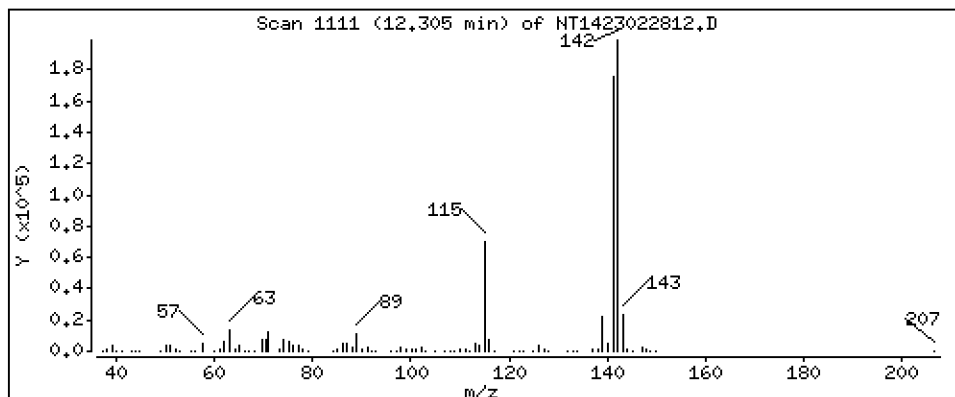
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

105 1-methylnaphthalene

Concentration: 4.871 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

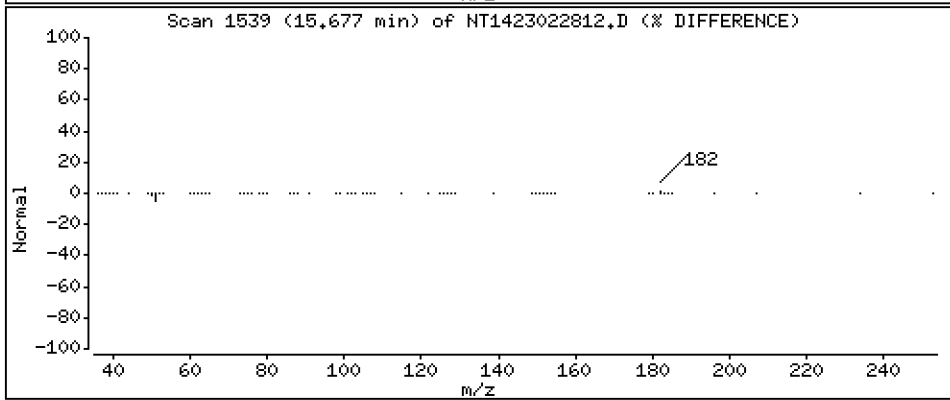
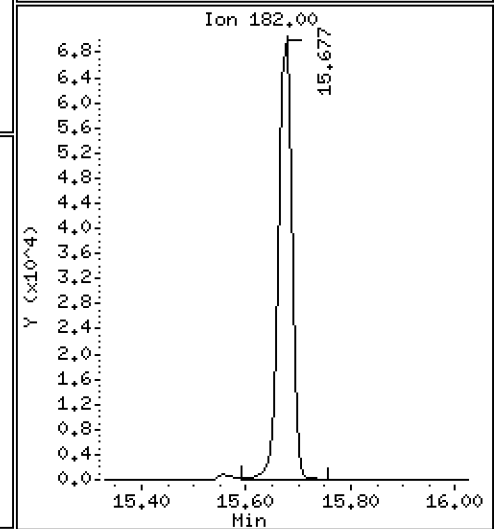
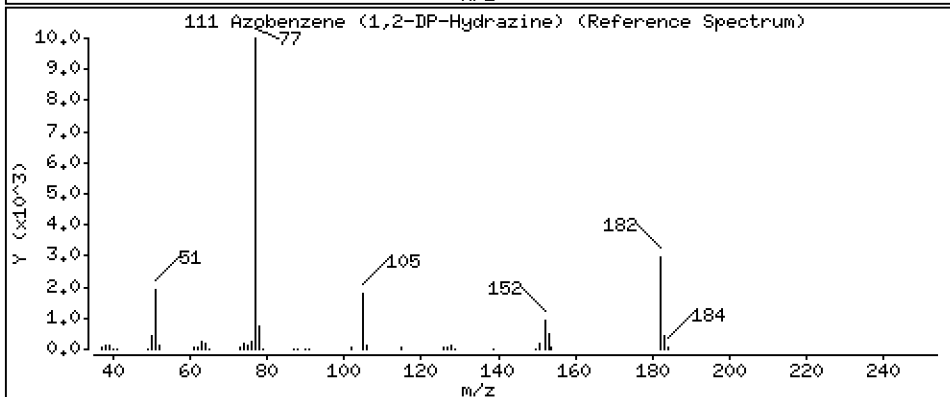
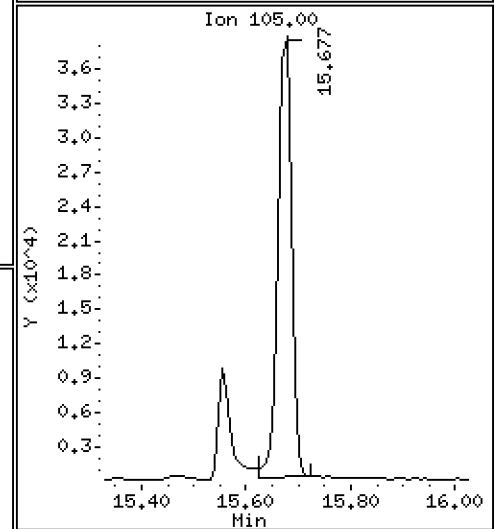
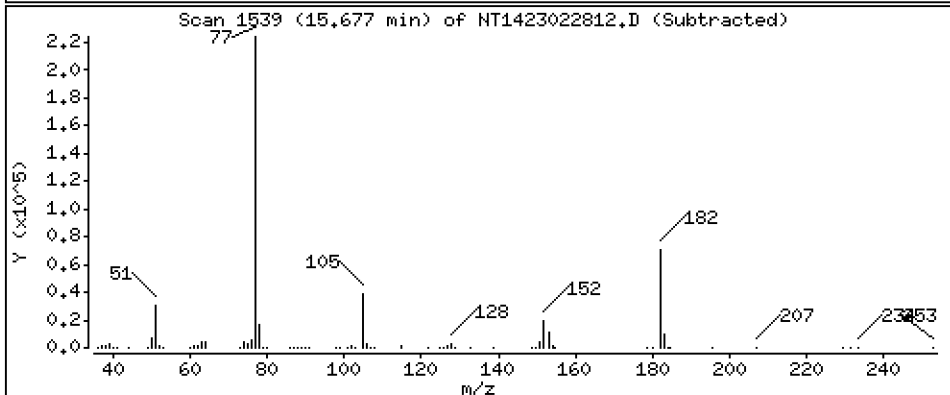
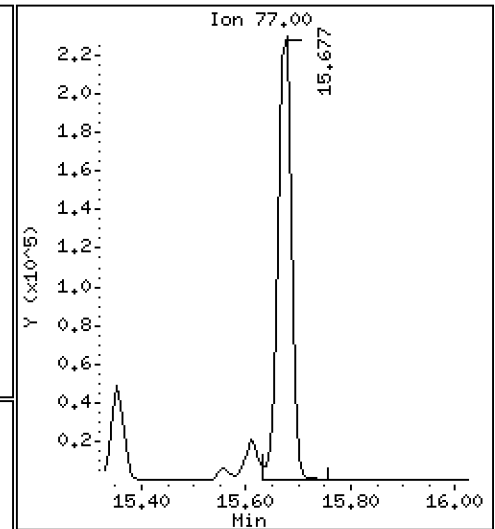
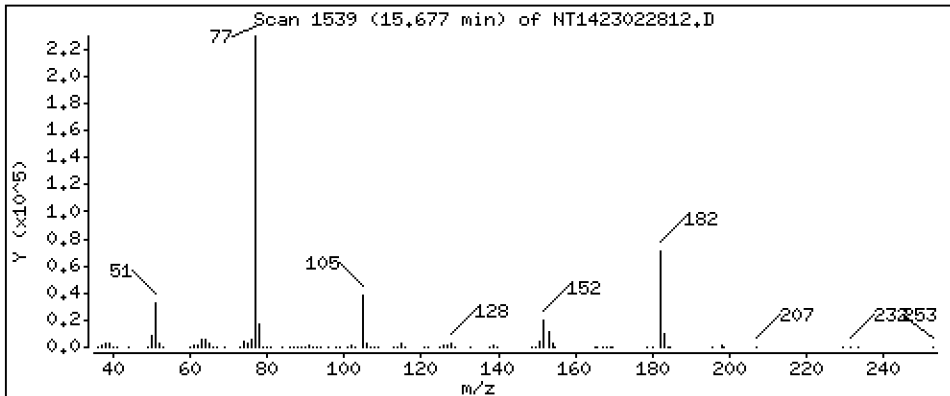
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 5,020 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

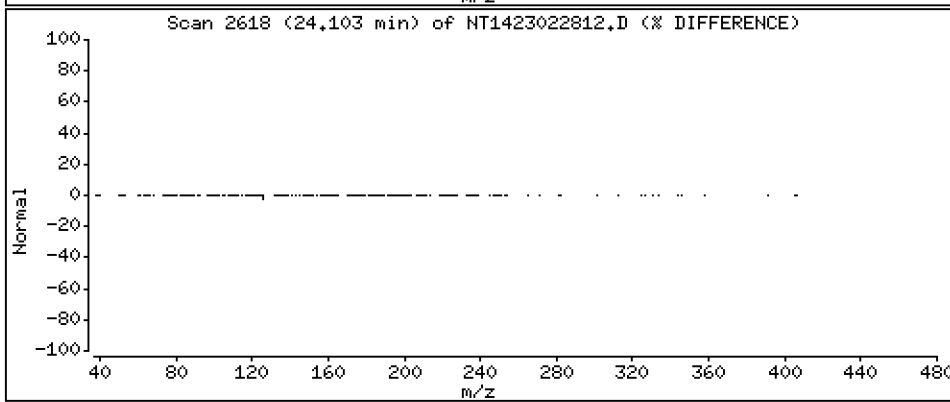
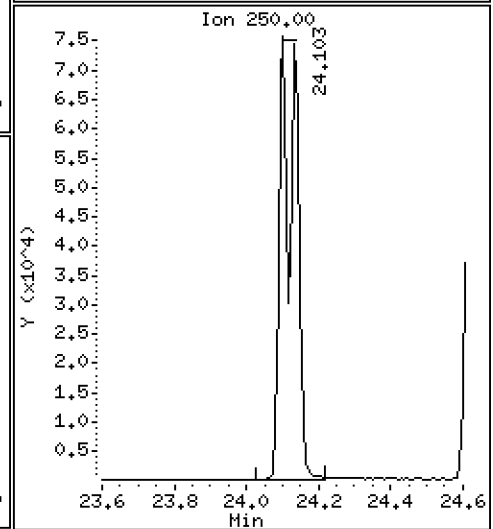
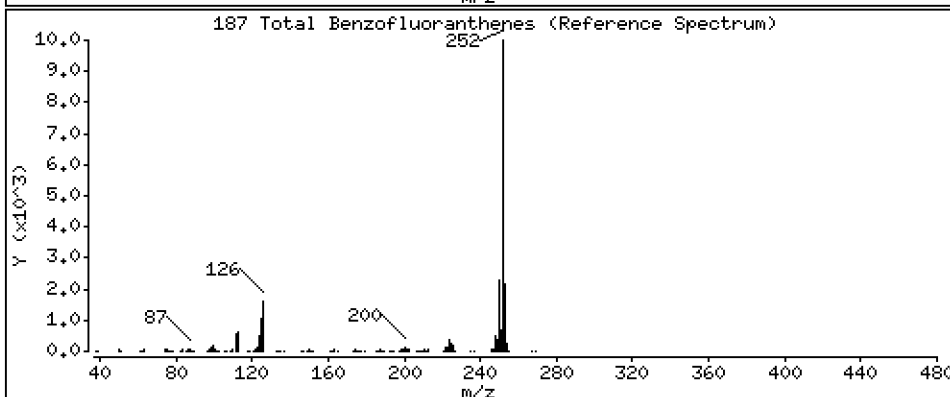
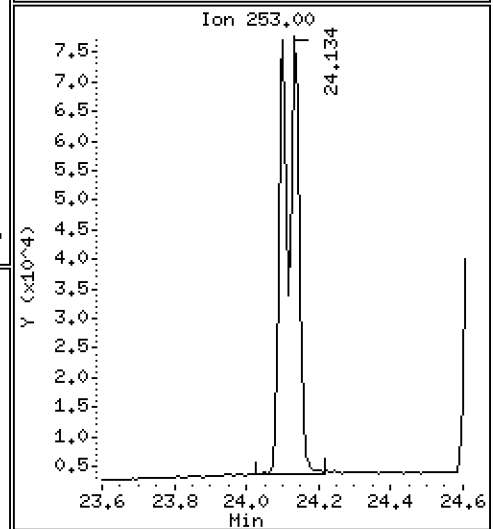
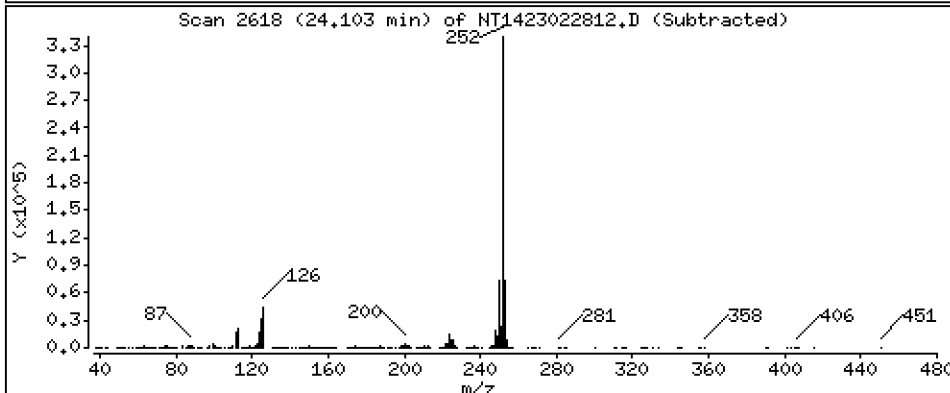
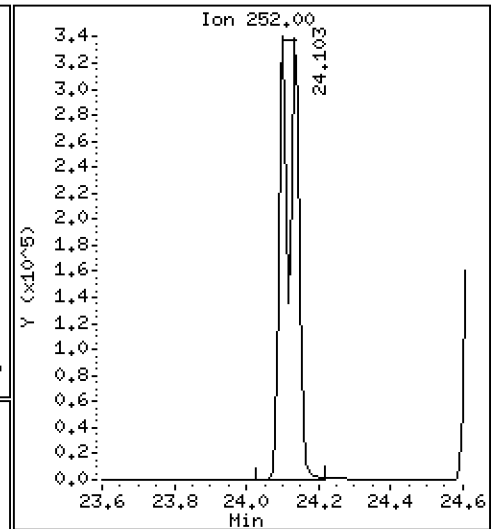
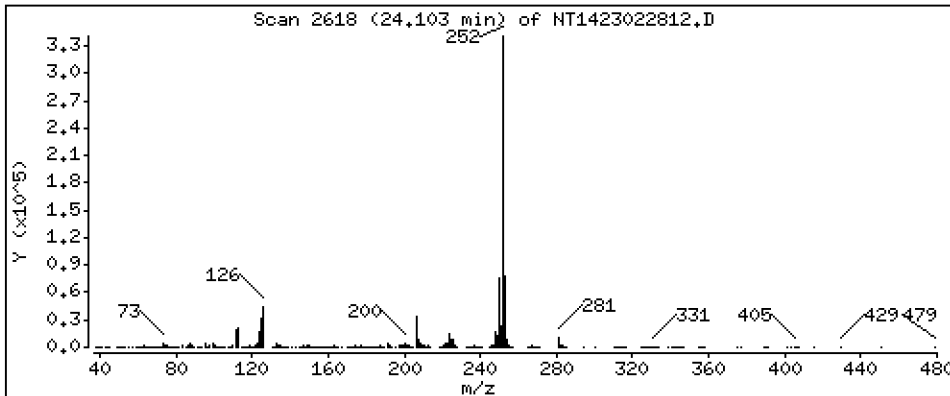
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 9,562 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

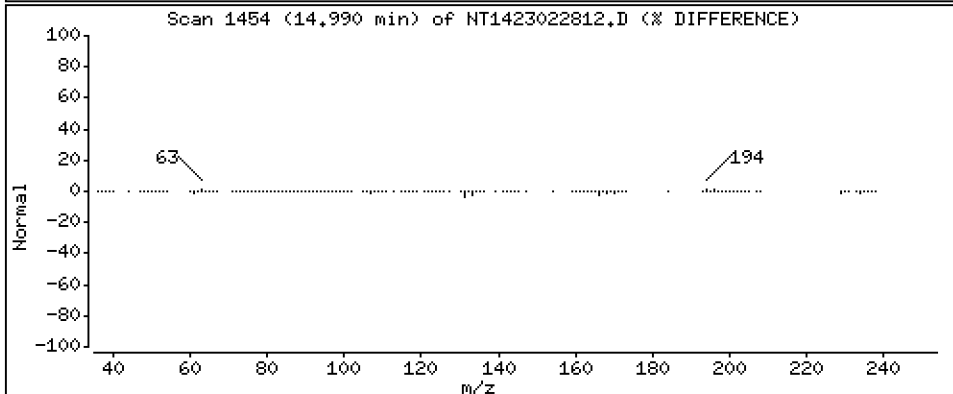
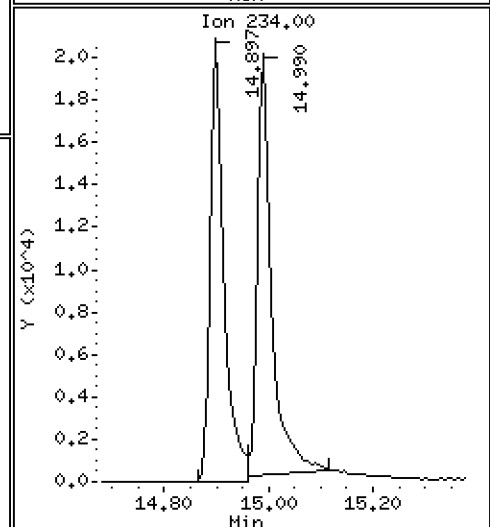
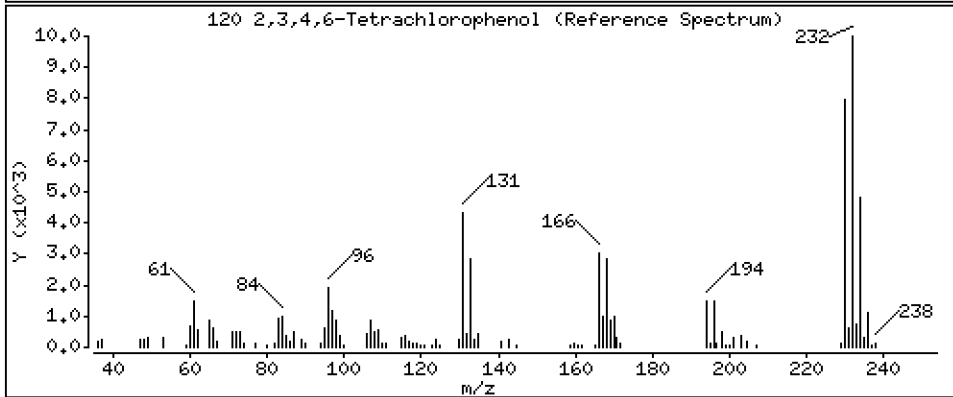
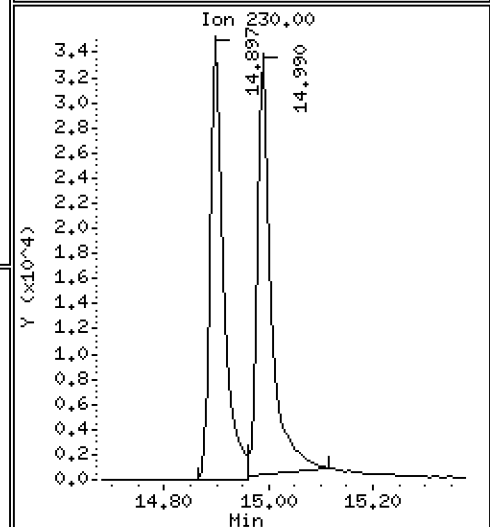
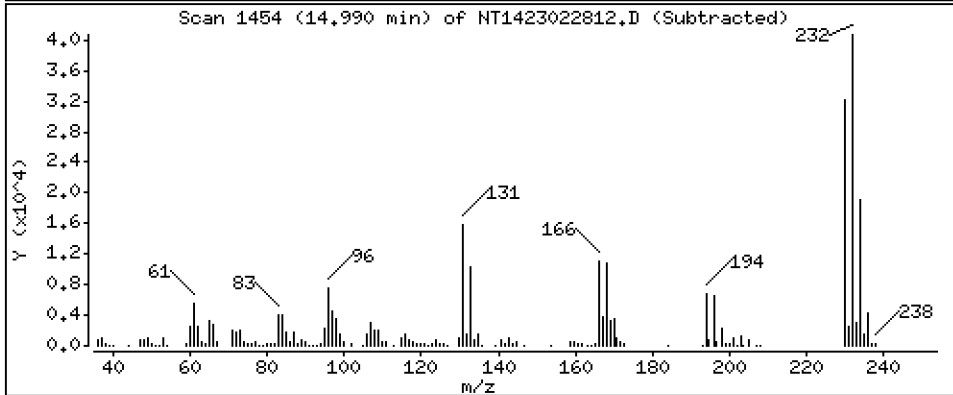
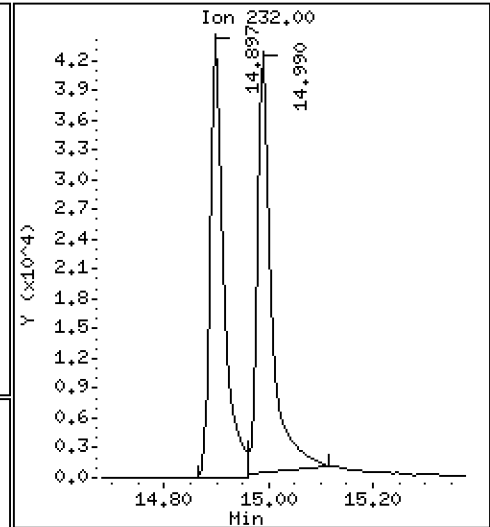
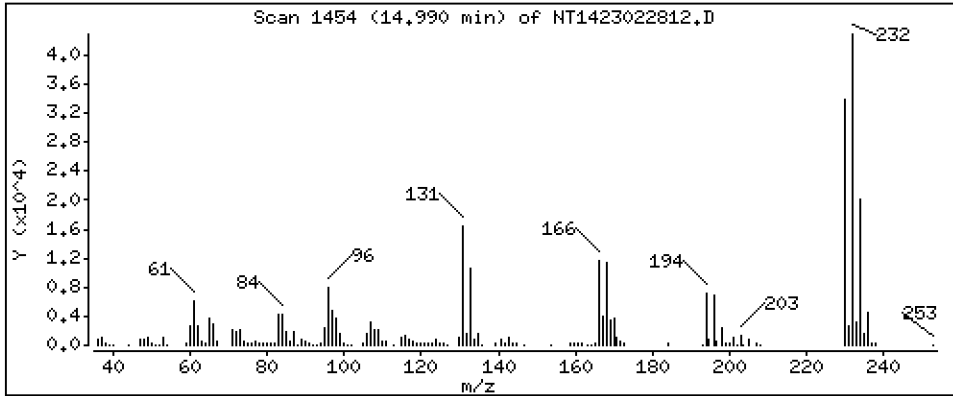
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

120 2,3,4,6-Tetrachlorophenol

Concentration: 3,467 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230228.b\NT1423022812.D
 Lab Smp Id: SLB0374-SCV1
 Inj Date : 28-FEB-2023 17:41 MS Autotune Date: 17-MAY-2011 01:22
 Operator : JGR Inst ID: nt14.i
 Smp Info : SLB0374-SCV1
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt14.i\20230228.b\ABN.m
 Meth Date : 10-Mar-2023 12:09 van Quant Type: ISTD
 Cal Date : 28-FEB-2023 15:16 Cal File: NT1423022808.D
 Als bottle: 12
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: ICAL.sub
 Target Version: 4.14
 Processing Host: VANS-201906

| Compounds | QUANT | SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|---------------------------------|-------|-----|--------|--------|---------|------------------------|----------------|-----------|
| | | | | | | | ON-COLUMN | FINAL |
| | MASS | | | | | | (ug/mL) | (ug/mL) |
| ===== | ==== | | ==== | ===== | ===== | ===== | ===== | ===== |
| \$ 1 2-Fluorophenol | 112 | | | | | Compound Not Detected. | | |
| \$ 2 Phenol-d5 | 99 | | | | | Compound Not Detected. | | |
| 3 Phenol | 94 | | 7.657 | 7.681 | (0.933) | 190853 | 3.93481 | 3.935 |
| \$ 5 2-Chlorophenol-d4 | 132 | | | | | Compound Not Detected. | | |
| 4 Bis(2-Chloroethyl)ether | 93 | | 7.789 | 7.805 | (0.949) | 172225 | 5.22436 | 5.224 |
| 6 2-Chlorophenol | 128 | | 7.889 | 7.905 | (0.961) | 165501 | 4.63235 | 4.632 |
| 7 1,3-Dichlorobenzene | 146 | | 8.145 | 8.153 | (0.992) | 188790 | 4.79491 | 4.795 |
| * 8 1,4-Dichlorobenzene-d4 | 152 | | 8.207 | 8.207 | (1.000) | 105595 | 4.00000 | |
| 9 1,4-Dichlorobenzene | 146 | | 8.238 | 8.246 | (1.004) | 186791 | 4.80018 | 4.800 |
| \$ 10 1,2-Dichlorobenzene-d4 | 152 | | | | | Compound Not Detected. | | |
| 12 1,2-Dichlorobenzene | 146 | | 8.587 | 8.595 | (1.046) | 179357 | 4.80679 | 4.807 |
| 11 Benzyl alcohol | 108 | | 8.509 | 8.688 | (1.037) | 92183 | 4.30388 | 4.304 |
| 14 2,2'-oxybis(1-Chloropropane) | 121 | | 8.804 | 8.812 | (1.073) | 55444 | 5.50978 | 5.510 |
| 13 2-Methylphenol | 108 | | 8.750 | 8.774 | (1.066) | 135033 | 4.40682 | 4.407 |
| 17 Hexachloroethane | 117 | | 9.161 | 9.162 | (1.116) | 74373 | 5.08929 | 5.089 |
| 16 N-Nitroso-di-n-propylamine | 70 | | 9.060 | 9.076 | (1.104) | 119882 | 5.13841 | 5.138 |
| 15 4-Methylphenol | 108 | | 9.029 | 9.069 | (1.100) | 147984 | 4.21848 | 4.218 |
| \$ 18 Nitrobenzene-d5 | 82 | | | | | Compound Not Detected. | | |
| 19 Nitrobenzene | 77 | | 9.332 | 9.356 | (0.875) | 180410 | 5.05930 | 5.059 |
| 20 Isophorone | 82 | | 9.782 | 9.806 | (0.917) | 349645 | 6.41026 | 6.410 |
| 21 2-Nitrophenol | 139 | | 9.961 | 9.992 | (0.934) | 76558 | 4.12597 | 4.126 |
| 22 2,4-Dimethylphenol | 107 | | 10.054 | 10.062 | (0.943) | 126462 | 3.89012 | 3.890 |
| 23 Bis(2-Chloroethoxy)methane | 93 | | 10.240 | 10.256 | (0.960) | 206654 | 5.76434 | 5.764 |
| 24 Benzoic acid | 105 | | 10.309 | 10.665 | (0.967) | 52451 | 4.07142 | 4.071 (M) |
| 25 2,4-Dichlorophenol | 162 | | 10.418 | 10.441 | (0.977) | 154075 | 4.78253 | 4.783 |
| 26 1,2,4-Trichlorobenzene | 180 | | 10.580 | 10.588 | (0.992) | 175958 | 4.78932 | 4.789 |
| * 27 Naphthalene-d8 | 136 | | 10.665 | 10.665 | (1.000) | 379346 | 4.00000 | |
| 28 Naphthalene | 128 | | 10.703 | 10.704 | (1.004) | 482268 | 4.76613 | 4.766 |
| 29 4-Chloroaniline | 127 | | 10.858 | 10.889 | (1.018) | 168576 | 3.89508 | 3.895 |
| 30 Hexachlorobutadiene | 225 | | 11.074 | 11.082 | (1.038) | 107684 | 4.80334 | 4.803 |
| 31 4-Chloro-3-methylphenol | 107 | | 11.848 | 11.872 | (1.111) | 142216 | 4.86015 | 4.860 |
| 32 2-Methylnaphthalene | 142 | | 12.088 | 12.096 | (1.133) | 346575 | 4.62518 | 4.625 |
| 33 Hexachlorocyclopentadiene | 237 | | 12.560 | 12.560 | (0.882) | 109998 | 4.53253 | 4.533 |

| Compounds | QUANT | SIG | | | | | | CONCENTRATIONS | |
|-----------------------------------|-------|-----|------------------------|--------|---------|--------|----------|----------------------|------------------|
| | | | MASS | RT | EXP RT | REL RT | RESPONSE | ON-COLUMN (ug/mL) | FINAL (ug/mL) |
| 34 2,4,6-Trichlorophenol | 196 | | 12.723 | 12.746 | (0.893) | 107803 | 4.78817 | 4.788 | |
| 35 2,4,5-Trichlorophenol | 196 | | 12.800 | 12.831 | (0.898) | 113667 | 4.66940 | 4.669 | |
| § 36 2-Fluorobiphenyl | 172 | | Compound Not Detected. | | | | | | |
| 37 2-Chloronaphthalene | 162 | | 13.071 | 13.079 | (0.917) | 353130 | 4.91059 | 4.911 | |
| 38 2-Nitroaniline | 65 | | 13.357 | 13.373 | (0.938) | 93395 | 4.97969 | 4.980 | |
| 39 Dimethylphthalate | 163 | | 13.806 | 13.814 | (0.969) | 377389 | 5.20568 | 5.206 | |
| 40 Acenaphthylene | 152 | | 13.930 | 13.938 | (0.978) | 524968 | 4.97505 | 4.975 | |
| 41 2,6-Dinitrotoluene | 165 | | 13.930 | 13.938 | (0.978) | 88793 | 5.22670 | 5.227 | |
| * 42 Acenaphthene-d10 | 164 | | 14.247 | 14.247 | (1.000) | 230482 | 4.00000 | | |
| 43 3-Nitroaniline | 138 | | 14.209 | 14.232 | (0.997) | 84775 | 4.86882 | 4.869 | |
| 44 Acenaphthene | 153 | | 14.309 | 14.309 | (1.004) | 322046 | 4.76684 | 4.767 | |
| 45 2,4-Dinitrophenol | 184 | | 14.433 | 14.425 | (1.013) | 10550 | 0.98072 | 0.9807 | |
| 46 Dibenzofuran | 168 | | 14.634 | 14.642 | (1.027) | 507169 | 4.71794 | 4.718 | |
| 47 4-Nitrophenol | 109 | | 14.572 | 14.580 | (1.023) | 34204 | 3.93377 | 3.934 | |
| 48 2,4-Dinitrotoluene | 165 | | 14.726 | 14.734 | (1.034) | 120852 | 4.94149 | 4.941 | |
| 50 Diethylphthalate | 149 | | 15.252 | 15.260 | (1.071) | 367448 | 5.42014 | 5.420 | |
| 49 Fluorene | 166 | | 15.337 | 15.345 | (1.077) | 434135 | 4.79317 | 4.793 | |
| 51 4-Chlorophenyl-phenylether | 204 | | 15.353 | 15.361 | (1.078) | 235392 | 4.88448 | 4.884 | |
| 52 4-Nitroaniline | 138 | | 15.461 | 15.492 | (1.085) | 78705 | 4.55998 | 4.560 | |
| 53 4,6-Dinitro-2-methylphenol | 198 | | 15.554 | 15.608 | (0.902) | 49314 | 3.23357 | 3.234 | |
| 54 N-Nitrosodiphenylamine | 169 | | 15.607 | 15.616 | (0.905) | 286663 | 4.97950 | 4.980 | |
| § 55 2,4,6-Tribromophenol | 330 | | Compound Not Detected. | | | | | | |
| 56 4-Bromophenyl-phenylether | 248 | | 16.348 | 16.348 | (0.948) | 130387 | 5.15173 | 5.152 | |
| 57 Hexachlorobenzene | 284 | | 16.634 | 16.634 | (0.965) | 133283 | 4.78977 | 4.790 | |
| 58 Pentachlorophenol | 266 | | 17.013 | 17.021 | (0.987) | 46829 | 3.52378 | 3.524 (M) | |
| * 59 Phenanthrene-d10 | 188 | | 17.245 | 17.245 | (1.000) | 458109 | 4.00000 | | |
| 60 Phenanthrene | 178 | | 17.291 | 17.300 | (1.003) | 562433 | 4.61514 | 4.615 | |
| 61 Anthracene | 178 | | 17.384 | 17.392 | (1.008) | 486699 | 4.22447 | 4.224 | |
| 62 Carbazole | 167 | | 17.732 | 17.748 | (1.028) | 482242 | 4.77590 | 4.776 | |
| 63 Di-n-butylphthalate | 149 | | 18.599 | 18.599 | (1.079) | 617439 | 4.81920 | 4.819 | |
| 64 Fluoranthene | 202 | | 19.713 | 19.721 | (0.881) | 680212 | 5.10377 | 5.104 | |
| 65 Pyrene | 202 | | 20.139 | 20.147 | (0.900) | 696600 | 4.95743 | 4.957 | |
| § 66 Terphenyl-d14 | 244 | | Compound Not Detected. | | | | | | |
| 67 Butylbenzylphthalate | 149 | | 21.439 | 21.447 | (0.958) | 242201 | 4.96478 | 4.965 | |
| 68 Benzo(a)anthracene | 228 | | 22.338 | 22.338 | (0.999) | 578542 | 4.91658 | 4.917 | |
| * 69 Chrysene-d12 | 240 | | 22.368 | 22.361 | (1.000) | 351284 | 4.00000 | | |
| 70 3,3'-Dichlorobenzidine | 252 | | 22.322 | 22.330 | (0.998) | 345809 | 10.2906 | 10.29 | |
| 71 Chrysene | 228 | | 22.407 | 22.415 | (1.002) | 515316 | 4.55608 | 4.556 | |
| 72 bis(2-Ethylhexyl)phthalate | 149 | | 22.500 | 22.500 | (0.958) | 338426 | 5.27680 | 5.277 | |
| * 134 Di-n-octylphthalate-d4 | 153 | | 23.476 | 23.476 | (1.000) | 422614 | 4.00000 | | |
| 73 Di-n-octylphthalate | 149 | | 23.483 | 23.484 | (1.000) | 576704 | 5.18281 | 5.183 | |
| 74 Benzo(b)fluoranthene | 252 | | 24.103 | 24.103 | (0.975) | 541825 | 4.87157 | 4.872 | |
| 75 Benzo(k)fluoranthene | 252 | | 24.134 | 24.134 | (0.977) | 559543 | 4.66326 | 4.663 | |
| 76 Benzo(a)pyrene | 252 | | 24.614 | 24.622 | (0.996) | 466252 | 4.88626 | 4.886 | |
| * 77 Perylene-d12 | 264 | | 24.714 | 24.715 | (1.000) | 336637 | 4.00000 | | |
| 78 Indeno(1,2,3-cd)pyrene | 276 | | 26.785 | 26.793 | (1.084) | 587567 | 4.89167 | 4.892 | |
| 79 Dibenzo(a,h)anthracene | 278 | | 26.800 | 26.800 | (1.084) | 500585 | 4.90681 | 4.907 | |
| 80 Benzo(g,h,i)perylene | 276 | | 27.383 | 27.391 | (1.108) | 508988 | 4.85849 | 4.858 | |
| 90 N-Nitrosodimethylamine | 74 | | 3.988 | 4.104 | (0.486) | 94230 | 4.50713 | 4.507 | |
| 91 Aniline | 93 | | Compound Not Detected. | | | | | | |
| 93 Benzidine | 184 | | 19.999 | 20.015 | (0.894) | 253209 | 4.50911 | 4.509 | |
| 103 Pyridine | 79 | | 4.004 | 4.027 | (0.488) | 137878 | 2.19631 | 2.196 | |
| 105 1-methylnaphthalene | 142 | | 12.305 | 12.313 | (1.154) | 335999 | 4.87061 | 4.871 | |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77 | | 15.677 | 15.677 | (1.100) | 390699 | 5.02002 | 5.020 | |

| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|-------------------------------|-----------|--------|--------|---------|----------|----------------------|------------------|
| | | | | | | ON-COLUMN (ug/mL) | FINAL (ug/mL) |
| 187 Total Benzofluoranthenes | 252 | 24.103 | 24.103 | (0.975) | 1040320 | 9.56184 | 9.562 |
| 120 2,3,4,6-Tetrachlorophenol | 232 | 14.989 | 15.029 | (1.052) | 91471 | 3.46740 | 3.467 |

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 28-FEB-2023
 Lab File ID: NT1423022812.D Calibration Time: 12:51
 Lab Smp Id: SLB0374-SCV1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: JGR
 Method File: \\target\share\chem3\nt14.i\20230228.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|--------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 114351 | 57176 | 228702 | 105595 | -7.66 |
| 27 Naphthalene-d8 | 408655 | 204328 | 817310 | 379346 | -7.17 |
| 42 Acenaphthene-d10 | 254000 | 127000 | 508000 | 230482 | -9.26 |
| 59 Phenanthrene-d10 | 490626 | 245313 | 981252 | 458109 | -6.63 |
| 69 Chrysene-d12 | 390400 | 195200 | 780800 | 351284 | -10.02 |
| 134 Di-n-octylphthala | 500829 | 250415 | 1001658 | 422614 | -15.62 |
| 77 Perylene-d12 | 375675 | 187838 | 751350 | 336637 | -10.39 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 8.21 | 7.71 | 8.71 | 8.21 | -0.09 |
| 27 Naphthalene-d8 | 10.67 | 10.17 | 11.17 | 10.67 | 0.00 |
| 42 Acenaphthene-d10 | 14.25 | 13.75 | 14.75 | 14.25 | 0.00 |
| 59 Phenanthrene-d10 | 17.25 | 16.75 | 17.75 | 17.25 | -0.04 |
| 69 Chrysene-d12 | 22.38 | 21.88 | 22.88 | 22.37 | -0.03 |
| 134 Di-n-octylphthala | 23.48 | 22.98 | 23.98 | 23.48 | -0.03 |
| 77 Perylene-d12 | 24.72 | 24.22 | 25.22 | 24.71 | -0.03 |

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

REVIEW SUMMARY FOR FILE - NT1423022812.D

Lab ID: SLB0374-SCV1
nt14.i, ABN.m, 28-FEB-2023 17:41

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

** FIRST SURROGATE NOT FOUND. ICAL Check not performed **

RRT CHECK

| RRT | CCV RRT | DELTA | COMPOUND |
|-------|---------|---------|------------------------|
| 1.037 | 1.059 | -0.0218 | Benzyl alcohol |
| 0.967 | 0.000 | 0.9667 | Benzoic acid |
| 1.013 | 0.000 | 1.0130 | 2,4-Dinitrophenol |
| 1.023 | 0.000 | 1.0228 | 4-Nitrophenol |
| 0.987 | 0.000 | 0.9865 | Pentachlorophenol |
| 0.486 | 0.500 | -0.0141 | N-Nitrosodimethylamine |
| 0.488 | 0.000 | 0.4879 | Pyridine |

RRT check based on Ccal File: NT1423022808.D

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

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

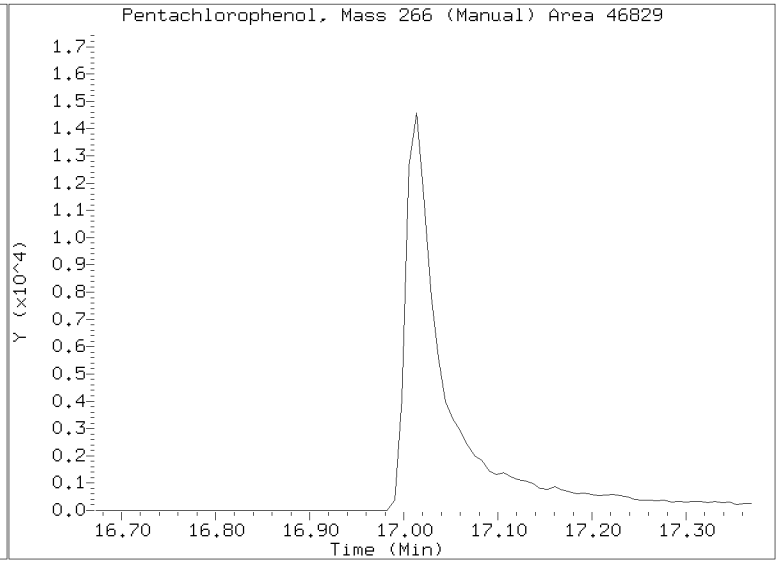
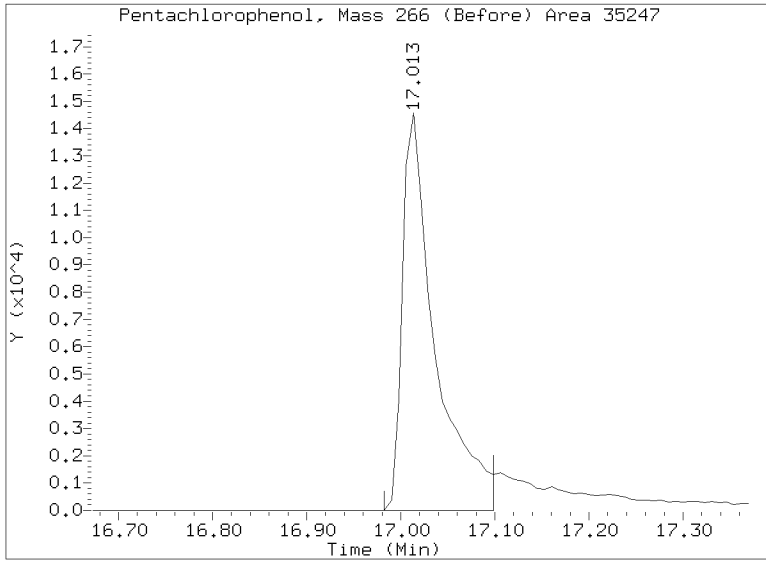
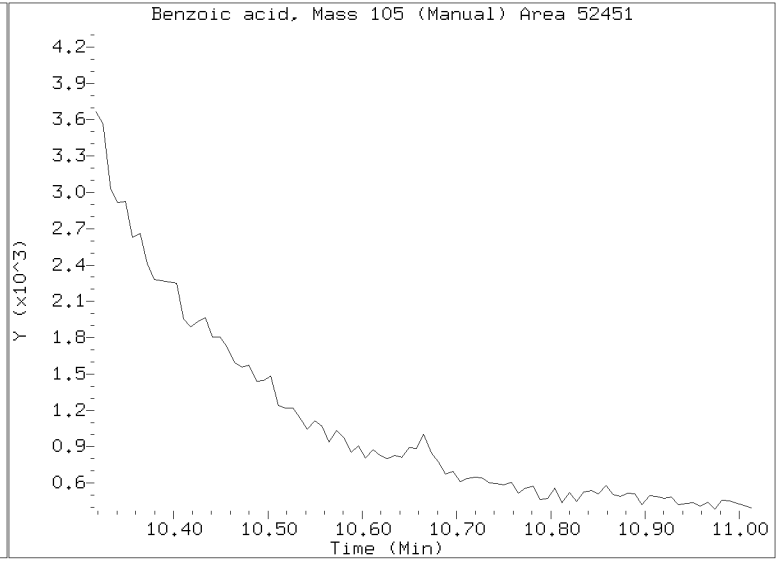
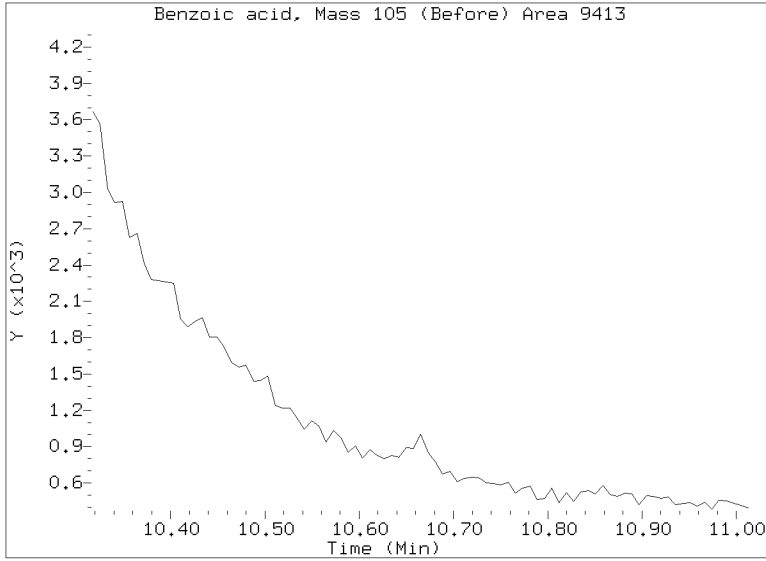
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230228.b/NT1423022812.D

Injection Date: 28-FEB-2023 17:41

Lab ID:SLB0374-SCV1 Client ID:

Report Date: 03/10/2023 13:21





INITIAL CALIBRATION DATA
EPA 8270E

| | | | |
|-------------------|---------------------------|-------------|-----------------|
| Laboratory: | Analytical Resources, LLC | SDG: | 23A0180 |
| Client: | Anchor QEA, LLC | Project: | AOC5 MR Phase 1 |
| Calibration: | GC00046 | Instrument: | NT10 |
| Calibration Date: | 03/15/2023 | Column (1): | ZB-5MSi |

Calibration Comments: 625.1/8270E ICAL

| Compound | Level 01 | | Level 02 | | Level 03 | | Level 04 | | Level 05 | | Level 06 | |
|-----------------------------|----------|-----------|----------|-----------|----------|-----------|----------|-----------|----------|-----------|----------|-----------|
| | Conc | RRF | Conc | RRF | Conc | RRF | Conc | RRF | Conc | RRF | Conc | RRF |
| Phenol | 0.2 | 1.622083 | 0.5 | 1.744385 | 1 | 1.738913 | 2.5 | 1.741727 | 5 | 1.626447 | 10 | 1.548455 |
| 4-Methylphenol | 0.2 | 1.143833 | 0.5 | 1.244 | 1 | 1.307883 | 2.5 | 1.374404 | 5 | 1.286966 | 10 | 1.25011 |
| Naphthalene | 0.2 | 1.114243 | 0.5 | 1.09175 | 1 | 1.076291 | 2.5 | 1.085156 | 5 | 1.039419 | 10 | 1.030535 |
| 2-Methylnaphthalene | 0.2 | 0.7568101 | 0.5 | 0.7669962 | 1 | 0.7731469 | 2.5 | 0.7905566 | 5 | 0.7700416 | 10 | 0.7603408 |
| Acenaphthylene | 0.2 | 1.914149 | 0.5 | 2.075865 | 1 | 2.064925 | 2.5 | 2.101795 | 5 | 1.969132 | 10 | 1.984368 |
| Dimethylphthalate | 0.2 | 1.323382 | 0.5 | 1.369259 | 1 | 1.345764 | 2.5 | 1.337994 | 5 | 1.267312 | 10 | 1.259852 |
| Acenaphthene | 0.2 | 1.282509 | 0.5 | 1.261686 | 1 | 1.254791 | 2.5 | 1.256369 | 5 | 1.196404 | 10 | 1.205595 |
| Dibenzofuran | 0.2 | 1.836794 | 0.5 | 1.892326 | 1 | 1.842035 | 2.5 | 1.892208 | 5 | 1.79473 | 10 | 1.763428 |
| Fluorene | 0.2 | 1.406055 | 0.5 | 1.451029 | 1 | 1.476714 | 2.5 | 1.500425 | 5 | 1.400817 | 10 | 1.414686 |
| Phenanthrene | 0.2 | 1.132198 | 0.5 | 1.106313 | 1 | 1.120881 | 2.5 | 1.127028 | 5 | 1.051992 | 10 | 1.053617 |
| Anthracene | 0.2 | 0.9557141 | 0.5 | 1.01224 | 1 | 1.065265 | 2.5 | 1.115342 | 5 | 1.052956 | 10 | 1.080994 |
| Fluoranthene | 0.2 | 1.36328 | 0.5 | 1.520561 | 1 | 1.561968 | 2.5 | 1.693508 | 5 | 1.749137 | 10 | 1.631866 |
| Pyrene | 0.2 | 1.456041 | 0.5 | 1.609441 | 1 | 1.630818 | 2.5 | 1.727629 | 5 | 1.739198 | 10 | 1.667931 |
| Butylbenzylphthalate | 0.2 | 0.3340669 | 0.5 | 0.4333599 | 1 | 0.4863695 | 2.5 | 0.5550659 | 5 | 0.5940761 | 10 | 0.626307 |
| Benzo(a)anthracene | 0.2 | 1.366436 | 0.5 | 1.427814 | 1 | 1.430217 | 2.5 | 1.485547 | 5 | 1.41212 | 10 | 1.389236 |
| Chrysene | 0.2 | 1.359447 | 0.5 | 1.429869 | 1 | 1.401334 | 2.5 | 1.407173 | 5 | 1.374198 | 10 | 1.361188 |
| bis(2-Ethylhexyl)phthalate | 0.2 | 0.3420314 | 0.5 | 0.4459806 | 1 | 0.5288449 | 2.5 | 0.5865203 | 5 | 0.5882303 | 10 | 0.5899108 |
| Benzo(a)fluoranthene, Total | 0.4 | 1.195721 | 1 | 1.245168 | 2 | 1.253078 | 5 | 1.280546 | 10 | 1.251547 | 20 | 1.288474 |
| Benzo(a)pyrene | 0.2 | 0.9927352 | 0.5 | 1.101345 | 1 | 1.122317 | 2.5 | 1.22032 | 5 | 1.206385 | 10 | 1.233412 |
| Indeno(1,2,3-cd)pyrene | 0.2 | 1.121524 | 0.5 | 1.32292 | 1 | 1.409944 | 2.5 | 1.590272 | 5 | 1.628941 | 10 | 1.583568 |
| Dibenzo(a,h)anthracene | 0.2 | 0.9256101 | 0.5 | 1.109076 | 1 | 1.176882 | 2.5 | 1.320958 | 5 | 1.350104 | 10 | 1.305995 |
| Benzo(g,h,i)perylene | 0.2 | 0.9796118 | 0.5 | 1.132402 | 1 | 1.201964 | 2.5 | 1.357402 | 5 | 1.42789 | 10 | 1.366327 |
| 2-Fluorophenol | 0.3 | 1.17021 | 0.75 | 1.261679 | 1.5 | 1.266774 | 3.75 | 1.303968 | 7.5 | 1.210352 | 15 | 1.167768 |
| Phenol-d5 | 0.3 | 1.485429 | 0.75 | 1.590369 | 1.5 | 1.618326 | 3.75 | 1.691404 | 7.5 | 1.609716 | 15 | 1.575522 |
| 2-Chlorophenol-d4 | 0.3 | 1.261338 | 0.75 | 1.355292 | 1.5 | 1.384443 | 3.75 | 1.420173 | 7.5 | 1.374898 | 15 | 1.357401 |
| 1,2-Dichlorobenzene-d4 | 0.2 | 0.9420816 | 0.5 | 0.9800826 | 1 | 1.025212 | 2.5 | 1.023568 | 5 | 0.9490201 | 10 | 0.9543478 |
| Nitrobenzene-d5 | 0.2 | 0.3650764 | 0.5 | 0.3986882 | 1 | 0.4101461 | 2.5 | 0.4261085 | 5 | 0.4187027 | 10 | 0.4110496 |



INITIAL CALIBRATION DATA
EPA 8270E

| | | | |
|-------------------|---------------------------|-------------|-----------------|
| Laboratory: | Analytical Resources, LLC | SDG: | 23A0180 |
| Client: | Anchor QEA, LLC | Project: | AOC5 MR Phase 1 |
| Calibration: | GC00046 | Instrument: | NT10 |
| Calibration Date: | 03/15/2023 | Column (1): | ZB-5MSi |

Calibration Comments: 625.1/8270E ICAL

| Compound | Level 01 | | Level 02 | | Level 03 | | Level 04 | | Level 05 | | Level 06 | |
|----------------------|----------|--------------|----------|----------|----------|-----------|----------|-----------|----------|----------|----------|-----------|
| | Conc | RRF | Conc | RRF | Conc | RRF | Conc | RRF | Conc | RRF | Conc | RRF |
| 2-Fluorobiphenyl | 0.2 | 1.623527 | 0.5 | 1.630708 | 1 | 1.616933 | 2.5 | 1.625878 | 5 | 1.553266 | 10 | 1.544261 |
| 2,4,6-Tribromophenol | 0.3 | 9.930622E-02 | 0.75 | 0.135101 | 1.5 | 0.1514052 | 3.75 | 0.1764476 | 7.5 | 0.177783 | 15 | 0.1895637 |
| p-Terphenyl-d14 | 0.2 | 1.184567 | 0.5 | 1.243423 | 1 | 1.268525 | 2.5 | 1.295244 | 5 | 1.260569 | 10 | 1.21091 |



INITIAL CALIBRATION DATA
EPA 8270E

| | | | |
|-------------------|---------------------------|-------------|-----------------|
| Laboratory: | Analytical Resources, LLC | SDG: | 23A0180 |
| Client: | Anchor QEA, LLC | Project: | AOC5 MR Phase 1 |
| Calibration: | GC00046 | Instrument: | NT10 |
| Calibration Date: | 03/15/2023 | Column (1): | ZB-5MSi |

Calibration Comments: 625.1/8270E ICAL

| Compound | Level 07 | | Level 08 | | Level 09 | | Level 10 | | Level 11 | | Level 12 | |
|-----------------------------|----------|-----------|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|
| | Conc | RRF | Conc | RRF | Conc | RRF | Conc | RRF | Conc | RRF | Conc | RRF |
| Phenol | 20 | 1.521085 | | | | | | | | | | |
| 4-Methylphenol | 20 | 1.258843 | | | | | | | | | | |
| Naphthalene | 20 | 0.9802185 | | | | | | | | | | |
| 2-Methylnaphthalene | 20 | 0.7350977 | | | | | | | | | | |
| Acenaphthylene | 20 | 1.864621 | | | | | | | | | | |
| Dimethylphthalate | 20 | 1.192451 | | | | | | | | | | |
| Acenaphthene | 20 | 1.176068 | | | | | | | | | | |
| Dibenzofuran | 20 | 1.709758 | | | | | | | | | | |
| Fluorene | 20 | 1.366348 | | | | | | | | | | |
| Phenanthrene | 20 | 1.042964 | | | | | | | | | | |
| Anthracene | 20 | 1.041424 | | | | | | | | | | |
| Fluoranthene | 20 | 1.730564 | | | | | | | | | | |
| Pyrene | 20 | 1.710349 | | | | | | | | | | |
| Butylbenzylphthalate | 20 | 0.6757807 | | | | | | | | | | |
| Benzo(a)anthracene | 20 | 1.371766 | | | | | | | | | | |
| Chrysene | 20 | 1.322435 | | | | | | | | | | |
| bis(2-Ethylhexyl)phthalate | 20 | 0.5927596 | | | | | | | | | | |
| Benzo(a)fluoranthene, Total | 40 | 1.248781 | | | | | | | | | | |
| Benzo(a)pyrene | 20 | 1.238145 | | | | | | | | | | |
| Indeno(1,2,3-cd)pyrene | 20 | 1.666622 | | | | | | | | | | |
| Dibenzo(a,h)anthracene | 20 | 1.382416 | | | | | | | | | | |
| Benzo(g,h,i)perylene | 20 | 1.468793 | | | | | | | | | | |
| 2-Fluorophenol | 30 | 1.086771 | | | | | | | | | | |
| Phenol-d5 | 30 | 1.537369 | | | | | | | | | | |
| 2-Chlorophenol-d4 | 30 | 1.332016 | | | | | | | | | | |
| 1,2-Dichlorobenzene-d4 | 20 | 0.937777 | | | | | | | | | | |
| Nitrobenzene-d5 | 20 | 0.3964415 | | | | | | | | | | |



INITIAL CALIBRATION DATA

EPA 8270E

| | | | |
|-----------------------|---------------------------|-------------|-----------------|
| Laboratory: | Analytical Resources, LLC | SDG: | 23A0180 |
| Client: | Anchor QEA, LLC | Project: | AOC5 MR Phase 1 |
| Calibration: | GC00046 | Instrument: | NT10 |
| Calibration Date: | 03/15/2023 | Column (1): | ZB-5MSi |
| Calibration Comments: | 625.1/8270E ICAL | | |

| COMPOUND | Mean RRF | RRF RSD | Linear COD | Quad COD | Limit Type & Limit | Q |
|----------------------------|-----------|---------|---------------|-------------|-----------------------|---|
| Phenol | 1.649014 | 5.7 | | | RSD (15) | |
| 4-Methylphenol | 1.266577 | 5.6 | | | RSD (15) | |
| Naphthalene | 1.059659 | 4.3 | | | RSD (15) | |
| 2-Methylnaphthalene | 0.7647129 | 2.2 | | | RSD (15) | |
| Acenaphthylene | 1.996408 | 4.4 | | | RSD (15) | |
| Dimethylphthalate | 1.299431 | 4.8 | | | RSD (15) | |
| Acenaphthene | 1.233346 | 3.2 | | | RSD (15) | |
| Dibenzofuran | 1.818754 | 3.7 | | | RSD (15) | |
| Fluorene | 1.430868 | 3.3 | | | RSD (15) | |
| Phenanthrene | 1.090713 | 3.6 | | | RSD (15) | |
| Anthracene | 1.046276 | 4.9 | | | RSD (15) | |
| Fluoranthene | 1.607269 | 8.5 | | | RSD (15) | |
| Pyrene | 1.648772 | 5.9 | | | RSD (15) | |
| Butylbenzylphthalate | 0.5292894 | 22.5 | | 0.9997 | QCOD (0.99) | |
| Benzo(a)anthracene | 1.411877 | 2.9 | | | RSD (15) | |
| Chrysene | 1.379378 | 2.6 | | | RSD (15) | |
| bis(2-Ethylhexyl)phthalate | 0.5248968 | 18.5 | | 0.9999 | QCOD (0.99) | |
| Benzo(a)anthracenes, Total | 1.251902 | 2.4 | | | RSD (15) | |
| Benzo(a)pyrene | 1.159237 | 7.9 | | | RSD (15) | |
| Indeno(1,2,3-cd)pyrene | 1.474827 | 13.5 | | | RSD (15) | |
| Dibenzo(a,h)anthracene | 1.224434 | 13.4 | | | RSD (15) | |
| Benzo(g,h,i)perylene | 1.276341 | 13.9 | | | RSD (15) | |
| 2-Fluorophenol | 1.209646 | 6.2 | | | RSD (15) | |
| Phenol-d5 | 1.586876 | 4.1 | | | RSD (15) | |
| 2-Chlorophenol-d4 | 1.35508 | 3.7 | | | RSD (15) | |
| 1,2-Dichlorobenzene-d4 | 0.9731556 | 3.9 | | | RSD (15) | |
| Nitrobenzene-d5 | 0.4037447 | 4.9 | | | RSD (15) | |
| 2-Fluorobiphenyl | 1.582289 | 3.6 | | | RSD (15) | |
| 2,4,6-Tribromophenol | 0.1585901 | 20.3 | | 0.9993 | QCOD (0.99) | |
| p-Terphenyl-d14 | 1.238195 | 3.2 | | | RSD (15) | |



ANALYSIS SEQUENCE

SLC0228

Instrument ID: NT10 GCMS Description: Agilent 5975/MS http://bi
Calibration ID: GC00046 GCMS Column ID: L002830
MS EM Level: 1271 EV

| Lab Number | Sample Name | Analysis | Container | Order | STD ID | ISTD ID | Analyzed | File ID | Analyst | Comments |
|--------------|-------------------|----------|-----------|-------|---------|---------|------------------|--------------|---------|----------|
| SLC0228-TUN1 | MS Tune | QC | | 1 | K004775 | | 03/15/2023 20:19 | NT10031501.D | JGR | |
| SLC0228-CAL7 | CAL 20 | QC | | 2 | K011111 | K010831 | 03/15/2023 20:34 | NT10031502.D | VTS | |
| SLC0228-CAL6 | CAL 10 | QC | | 3 | K011110 | K010831 | 03/15/2023 21:12 | NT10031503.D | VTS | |
| SLC0228-CAL5 | CAL 5 | QC | | 4 | K011109 | K010831 | 03/15/2023 21:50 | NT10031504.D | VTS | |
| SLC0228-CAL4 | CAL 2.5 | QC | | 5 | K011108 | K010831 | 03/15/2023 22:28 | NT10031505.D | VTS | |
| SLC0228-CAL3 | CAL 1.0 | QC | | 6 | K011107 | K010831 | 03/15/2023 23:06 | NT10031506.D | VTS | |
| SLC0228-CAL2 | CAL 0.5 | QC | | 7 | K011106 | K010831 | 03/15/2023 23:44 | NT10031507.D | VTS | |
| SLC0228-CAL1 | CAL 0.2 | QC | | 8 | K011105 | K010831 | 03/16/2023 00:22 | NT10031508.D | VTS | |
| SLC0228-SCV1 | SCV 5.0 | QC | | 9 | L002833 | K010831 | 03/16/2023 02:16 | NT10031511.D | VTS | |
| SLC0228-ICB1 | Initial Cal Blank | QC | | 10 | K005156 | K010831 | 03/16/2023 02:54 | NT10031512.D | VTS | |

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230315.b

| Time | Filename | LabID | ClientId | DF | | | | | | | | | | | | | | | |
|------|----------|--------------|--------------|----|---|----------------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|
| 1 | 2019 | NT10031501.D | SLC0228-TUN1 | | 1 | NO ISTDs FOUND | | | | | | | | | | | | | |
| 2 | 2034 | NT10031502.D | SLC0228-CAL7 | | 1 | 9.30 | 177375 | 11.78 | 659656 | 15.38 | 352987 | 18.42 | 587447 | 23.46 | 356463 | 26.19 | 404994 | 24.49 | 617041 |
| 3 | 2112 | NT10031503.D | SLC0228-CAL6 | | 1 | 9.30 | 174984 | 11.78 | 633941 | 15.38 | 344087 | 18.42 | 605930 | 23.46 | 437116 | 26.18 | 463440 | 24.48 | 674085 |
| 4 | 2150 | NT10031504.D | SLC0228-CAL5 | | 1 | 9.30 | 171542 | 11.78 | 624466 | 15.38 | 337226 | 18.42 | 572849 | 23.45 | 347068 | 26.18 | 421549 | 24.48 | 500317 |
| 5 | 2228 | NT10031505.D | SLC0228-CAL4 | | 1 | 9.30 | 158570 | 11.78 | 582079 | 15.38 | 306729 | 18.42 | 522311 | 23.45 | 356282 | 26.18 | 420725 | 24.48 | 471925 |
| 6 | 2306 | NT10031506.D | SLC0228-CAL3 | | 1 | 9.29 | 172257 | 11.78 | 625894 | 15.38 | 330997 | 18.42 | 568685 | 23.45 | 426836 | 26.18 | 489106 | 24.48 | 555437 |
| 7 | 2344 | NT10031507.D | SLC0228-CAL2 | | 1 | 9.30 | 176328 | 11.78 | 638835 | 15.38 | 333617 | 18.42 | 594262 | 23.45 | 428263 | 26.18 | 479116 | 24.48 | 530893 |
| 8 | 0022 | NT10031508.D | SLC0228-CAL1 | | 1 | 9.29 | 173382 | 11.77 | 622719 | 15.38 | 323444 | 18.42 | 582036 | 23.45 | 443504 | 26.18 | 490725 | 24.48 | 540769 |
| 9 | 0100 | NT10031509.D | SEQ-SIM2 | | 1 | 9.29 | 175576 | 11.78 | 624440 | 15.38 | 329518 | 18.42 | 581173 | 23.45 | 424576 | 26.18 | 472151 | 24.48 | 491201 |
| 10 | 0138 | NT10031510.D | SEQ-SIM1 | | 1 | 9.30 | 172228 | 11.77 | 609518 | 15.38 | 313933 | 18.42 | 564567 | 23.45 | 413842 | 26.18 | 461161 | 24.48 | 469814 |
| 11 | 0216 | NT10031511.D | SLC0228-SCV1 | | 1 | 9.30 | 154809 | 11.78 | 570882 | 15.38 | 303490 | 18.42 | 533431 | 23.46 | 435381 | 26.19 | 494648 | 24.49 | 660827 |
| 12 | 0254 | NT10031512.D | SLC0228-ICB1 | | 1 | 9.30 | 173115 | 11.78 | 625865 | 15.38 | 328712 | 18.42 | 592693 | 23.45 | 442208 | 26.18 | 499804 | 24.48 | 526309 |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230315.b

Instrument: nt10.i Date: 15-MAR-2023

| Time | Filename | LabID | DF | Manually Integrated Compounds |
|------|--------------|--------------|----|---|
| 2019 | NT10031501.D | SLC0228-TUN1 | 1 | NO MANUAL INTEGRATION |
| 2034 | NT10031502.D | SLC0228-CAL7 | 1 | Benzoic acid, |
| 2112 | NT10031503.D | SLC0228-CAL6 | 1 | 2,2'-oxybis(1-Chloropropane), |
| 2150 | NT10031504.D | SLC0228-CAL5 | 1 | 2,2'-oxybis(1-Chloropropane), |
| 2228 | NT10031505.D | SLC0228-CAL4 | 1 | 2,2'-oxybis(1-Chloropropane), |
| 2306 | NT10031506.D | SLC0228-CAL3 | 1 | 2,2'-oxybis(1-Chloropropane), |
| 2344 | NT10031507.D | SLC0228-CAL2 | 1 | 2,2'-oxybis(1-Chloropropane), Benzoic acid, |
| 0022 | NT10031508.D | SLC0228-CAL1 | 1 | 2,2'-oxybis(1-Chloropropane), 1,2-Dichlorobenzene-d4, |
| 0100 | NT10031509.D | SEQ-SIM2 | 1 | NO MANUAL INTEGRATION |
| 0138 | NT10031510.D | SEQ-SIM1 | 1 | NO MANUAL INTEGRATION |
| 0216 | NT10031511.D | SLC0228-SCV1 | 1 | NO MANUAL INTEGRATION |
| 0254 | NT10031512.D | SLC0228-ICB1 | 1 | NO MANUAL INTEGRATION |

Security Status Report

Date: 16-Mar-2023 13:06

| | | |
|--------------|-------------|------------------------|
| NT10031501.D | Data Locked | van, 16-Mar-2023 13:06 |
| NT10031502.D | Data Locked | van, 16-Mar-2023 13:06 |
| NT10031503.D | Data Locked | van, 16-Mar-2023 13:06 |
| NT10031504.D | Data Locked | van, 16-Mar-2023 13:06 |
| NT10031505.D | Data Locked | van, 16-Mar-2023 13:06 |
| NT10031506.D | Data Locked | van, 16-Mar-2023 13:06 |
| NT10031507.D | Data Locked | van, 16-Mar-2023 13:06 |
| NT10031508.D | Data Locked | van, 16-Mar-2023 13:06 |
| NT10031509.D | Data Locked | van, 16-Mar-2023 13:06 |
| NT10031510.D | Data Locked | van, 16-Mar-2023 13:06 |
| NT10031511.D | Data Locked | van, 16-Mar-2023 13:06 |
| NT10031512.D | Data Locked | van, 16-Mar-2023 13:06 |

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 15-MAR-2023 20:34
 End Cal Date : 16-MAR-2023 00:22
 Quant Method : ISTD
 Origin : Force
 Target Version : 4.14
 Integrator : HP RTE
 Method file : \\target\share\chem3\nt10.i\20230315.b\ABN.m
 Last Edit : 16-Mar-2023 10:24 van

Calibration File Names:

- Level 1: \\target\share\chem3\nt10.i\20230315.b\NT10031508.D
- Level 2: \\target\share\chem3\nt10.i\20230315.b\NT10031507.D
- Level 3: \\target\share\chem3\nt10.i\20230315.b\NT10031506.D
- Level 4: \\target\share\chem3\nt10.i\20230315.b\NT10031505.D
- Level 5: \\target\share\chem3\nt10.i\20230315.b\NT10031504.D
- Level 6: \\target\share\chem3\nt10.i\20230315.b\NT10031503.D
- Level 7: \\target\share\chem3\nt10.i\20230315.b\NT10031502.D

| Compound | 0.2000000 | 0.5000000 | 1.0000 | 2.5000 | 5.0000 | 10.0000 | Curve | Coefficients | | | %RSD or R ² |
|------------------------|-----------|-----------|---------|---------|---------|---------|-------|--------------|------------|----|---------------------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | b | m1 | m2 | |
| 186 Carbaryl | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | AVRG | 0.000e+000 | 0.000e+000 | <- | |
| 179 n-Decane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | AVRG | 0.000e+000 | 0.000e+000 | <- | |
| 180 n-Octadecane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | AVRG | 0.000e+000 | 0.000e+000 | <- | |
| 169 4-tert-Butylphenol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | AVRG | 0.000e+000 | 0.000e+000 | | |

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 15-MAR-2023 20:34
 End Cal Date : 16-MAR-2023 00:22
 Quant Method : ISTD
 Origin : Force
 Target Version : 4.14
 Integrator : HP RTE
 Method file : \\target\share\chem3\nt10.i\20230315.b\ABN.m
 Last Edit : 16-Mar-2023 10:24 van

| Compound | 0.2000000 | 0.5000000 | 1.0000 | 2.5000 | 5.0000 | 10.0000 | Curve | b | Coefficients | | %RSD or R ² |
|-------------------------|-----------|-----------|---------|---------|---------|---------|-------|---|--------------|----|---------------------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | | m1 | m2 | |
| | 20.0000 | | | | | | | | | | |
| | Level 7 | | | | | | | | | | |
| 170 N,N-Dimethylaniline | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 171 2,3-Dimethylaniline | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 172 2,4-Dimethylaniline | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 173 2,5-Dimethylaniline | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 174 2,6-Dimethylaniline | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 175 3,4-Dimethylaniline | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 176 3,5-Dimethylaniline | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 15-MAR-2023 20:34
 End Cal Date : 16-MAR-2023 00:22
 Quant Method : ISTD
 Origin : Force
 Target Version : 4.14
 Integrator : HP RTE
 Method file : \\target\share\chem3\nt10.i\20230315.b\ABN.m
 Last Edit : 16-Mar-2023 10:24 van

| Compound | 0.2000000 | 0.5000000 | 1.0000 | 2.5000 | 5.0000 | 10.0000 | Curve | b | Coefficients | | %RSD or R ² |
|------------------------|-----------|-----------|---------|---------|---------|---------|-------|---|--------------|----|---------------------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | | m1 | m2 | |
| | 20.0000 | | | | | | | | | | |
| | Level 7 | | | | | | | | | | |
| 177 p-Benzoquinone | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 <- |
| 168 Pentachlorobenzene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 <- |
| 145 4,4'-DDE | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 146 4,4'-DDD | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 147 4,4'-DDT | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 148 Dieldrin | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 149 TCMX | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 15-MAR-2023 20:34
 End Cal Date : 16-MAR-2023 00:22
 Quant Method : ISTD
 Origin : Force
 Target Version : 4.14
 Integrator : HP RTE
 Method file : \\target\share\chem3\nt10.i\20230315.b\ABN.m
 Last Edit : 16-Mar-2023 10:24 van

| Compound | 0.2000000 | 0.5000000 | 1.0000 | 2.5000 | 5.0000 | 10.0000 | Curve | b | Coefficients | | %RSD or R ² |
|---------------------------------|-----------|-----------|---------|---------|---------|---------|-------|---|--------------|----|---------------------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | | m1 | m2 | |
| | 20.0000 | | | | | | | | | | |
| | Level 7 | | | | | | | | | | |
| 150 DCBP | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 138 Chlorobenzilate | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 139 Isodrin | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 140 Diallate A | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 141 Diallate B | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 142 1,2-Dibromo-3-Chloropropane | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 135 2,3,5,6-Tetrachlorophenol | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 <- |

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 15-MAR-2023 20:34
 End Cal Date : 16-MAR-2023 00:22
 Quant Method : ISTD
 Origin : Force
 Target Version : 4.14
 Integrator : HP RTE
 Method file : \\target\share\chem3\nt10.i\20230315.b\ABN.m
 Last Edit : 16-Mar-2023 10:24 van

| Compound | 0.2000000 | 0.5000000 | 1.0000 | 2.5000 | 5.0000 | 10.0000 | Curve | b | Coefficients | | %RSD or R ² |
|-------------------------------|-----------|-----------|---------|---------|---------|---------|-------|---|--------------|----|---------------------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | | m1 | m2 | |
| | 20.0000 | | | | | | | | | | |
| | Level 7 | | | | | | | | | | |
| 136 2,3,4,5-tetrachlorophenol | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 133 Butylatedhydroxytoluene | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000<- |
| 132 3,6-Dimethylphenanthrene | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 131 1-Methylphenanthrene | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 130 Dibenzothiophene | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 129 1-Methylfluorene | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 128 N-Hexadecane | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |

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INITIAL CALIBRATION DATA

Start Cal Date : 15-MAR-2023 20:34
 End Cal Date : 16-MAR-2023 00:22
 Quant Method : ISTD
 Origin : Force
 Target Version : 4.14
 Integrator : HP RTE
 Method file : \\target\share\chem3\nt10.i\20230315.b\ABN.m
 Last Edit : 16-Mar-2023 10:24 van

| Compound | 0.2000000 | 0.5000000 | 1.0000 | 2.5000 | 5.0000 | 10.0000 | Curve | b | Coefficients | | %RSD or R ² |
|-----------------------------|-----------|-----------|---------|---------|---------|---------|-------|---|--------------|----|---------------------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | | m1 | m2 | |
| | 20.0000 | | | | | | | | | | |
| | Level 7 | | | | | | | | | | |
| 127 2-Isopropyl-naphthalene | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 126 N-Tetradecane | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 144 alpha-Terpineol | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 <- |
| 125 Safrole | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 124 3,4-Dimethylphenol | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 123 Acetophenone | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 <- |
| 122 Furfuraldehyde | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |

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INITIAL CALIBRATION DATA

Start Cal Date : 15-MAR-2023 20:34
 End Cal Date : 16-MAR-2023 00:22
 Quant Method : ISTD
 Origin : Force
 Target Version : 4.14
 Integrator : HP RTE
 Method file : \\target\share\chem3\nt10.i\20230315.b\ABN.m
 Last Edit : 16-Mar-2023 10:24 van

| Compound | 0.2000000 | 0.5000000 | 1.0000 | 2.5000 | 5.0000 | 10.0000 | Curve | b | Coefficients | | %RSD or R^2 |
|-----------------------------------|-----------|-----------|---------|---------|---------|---------|-------|------------|--------------|----------|----------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | | m1 | m2 | |
| | 20.0000 | | | | | | | | | | |
| | Level 7 | | | | | | | | | | |
| 143 1,4-Dioxane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | 0.000e+000 | | | 0.000e+000<- |
| 121 Quinoline | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | 0.000e+000 | | | 0.000e+000 |
| 120 2,3,4,6-Tetrachlorophenol | 3113 | 11604 | 26430 | 82842 | 169344 | 374893 | | | | | |
| | 832943 | | | | | | QUAD | 0.000e+000 | 2.48576 | -0.15608 | 0.99970 |
| 178 2-Benzyl-4-Chlorophenol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | 0.000e+000 | | | 0.000e+000<- |
| 119 7,12-Dimethylbenz(a)anthracen | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | 0.000e+000 | | | 0.000e+000 |
| 118 Triphenyl Phosphate | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | 0.000e+000 | | | 0.000e+000<- |
| 117 Butyl Diphenyl Phosphate | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | 0.000e+000 | | | 0.000e+000<- |

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Start Cal Date : 15-MAR-2023 20:34
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 Quant Method : ISTD
 Origin : Force
 Target Version : 4.14
 Integrator : HP RTE
 Method file : \\target\share\chem3\nt10.i\20230315.b\ABN.m
 Last Edit : 16-Mar-2023 10:24 van

| Compound | 0.2000000 | 0.5000000 | 1.0000 | 2.5000 | 5.0000 | 10.0000 | Curve | b | Coefficients | | %RSD or R ² |
|-----------------------------------|-----------|-----------|---------|---------|---------|---------|-------|---|--------------|----|---------------------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | | m1 | m2 | |
| | 20.0000 | | | | | | | | | | |
| | Level 7 | | | | | | | | | | |
| 116 Dibutyl Phenyl Phosphate | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000<- |
| 115 Tributyl Phosphate | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000<- |
| 114 Beta-Pinene | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 113 Diphenyl Oxide | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000<- |
| 112 Biphenyl | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000<- |
| 111 Azobenzene (1,2-DP-Hydrazine) | 1.36599 | 1.46769 | 1.42898 | 1.48330 | 1.43111 | 1.39920 | | | | | |
| | 1.39306 | | | | | | AVRG | | 1.42419 | | 2.92872 |
| 110 Tetrachloroguaiacol | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000<- |

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Start Cal Date : 15-MAR-2023 20:34
 End Cal Date : 16-MAR-2023 00:22
 Quant Method : ISTD
 Origin : Force
 Target Version : 4.14
 Integrator : HP RTE
 Method file : \\target\share\chem3\nt10.i\20230315.b\ABN.m
 Last Edit : 16-Mar-2023 10:24 van

| Compound | 0.2000000 | 0.5000000 | 1.0000 | 2.5000 | 5.0000 | 10.0000 | Curve | b | Coefficients | | %RSD or R^2 |
|-----------------------------|-----------|-----------|---------|---------|---------|---------|-------|---|--------------|----|----------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | | m1 | m2 | |
| | 20.0000 | | | | | | | | | | |
| | Level 7 | | | | | | | | | | |
| 109 3,4,5-Trichloroguaiacol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 <- |
| 181 3,4,6-Trichloroguaiacol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 <- |
| 108 4,5,6-Trichloroguaiacol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 <- |
| 184 3,4-Dichloroguaiacol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 <- |
| 107 4,5-Dichloroguaiacol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 <- |
| 182 4,6-Dichloroguaiacol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 <- |
| 185 4-Chloroguaiacol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 <- |

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Start Cal Date : 15-MAR-2023 20:34
 End Cal Date : 16-MAR-2023 00:22
 Quant Method : ISTD
 Origin : Force
 Target Version : 4.14
 Integrator : HP RTE
 Method file : \\target\share\chem3\nt10.i\20230315.b\ABN.m
 Last Edit : 16-Mar-2023 10:24 van

| Compound | 0.2000000 | 0.5000000 | 1.0000 | 2.5000 | 5.0000 | 10.0000 | Curve | b | Coefficients | | %RSD or R ² |
|--------------------------------|-----------|-----------|---------|---------|---------|---------|-------|---|--------------|----|---------------------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | | m1 | m2 | |
| | 20.0000 | | | | | | | | | | |
| | Level 7 | | | | | | | | | | |
| 106 Guaiacol | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 <- |
| 105 1-methylnaphthalene | 0.70080 | 0.71097 | 0.71031 | 0.71759 | 0.70593 | 0.69611 | | | | | |
| | 0.66277 | | | | | | AVRG | | 0.70064 | | 2.58648 |
| 151 1,2,4,5-Tetrachlorobenzene | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 <- |
| 152 Benzo(e)pyrene | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 153 Chlorpyrifos | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 154 Diazinon | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 155 Kelthane | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |

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Start Cal Date : 15-MAR-2023 20:34
 End Cal Date : 16-MAR-2023 00:22
 Quant Method : ISTD
 Origin : Force
 Target Version : 4.14
 Integrator : HP RTE
 Method file : \\target\share\chem3\nt10.i\20230315.b\ABN.m
 Last Edit : 16-Mar-2023 10:24 van

| Compound | 0.2000000 | 0.5000000 | 1.0000 | 2.5000 | 5.0000 | 10.0000 | Curve | b | Coefficients | | %RSD or R ² |
|------------------------------------|-----------|-----------|---------|---------|---------|---------|-------|---|--------------|----|---------------------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | | m1 | m2 | |
| | 20.0000 | | | | | | | | | | |
| | Level 7 | | | | | | | | | | |
| 156 Methyl Parathion | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 157 Ethyl Parathion | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 158 Ethion | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 159 4-Nonylphenol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 160 Tetraethyl Tin | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 161 1,2,3-Trichloronaphthalene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 162 1,2,3,4-Tetrachloronaphthalene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |

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Start Cal Date : 15-MAR-2023 20:34
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 Quant Method : ISTD
 Origin : Force
 Target Version : 4.14
 Integrator : HP RTE
 Method file : \\target\share\chem3\nt10.i\20230315.b\ABN.m
 Last Edit : 16-Mar-2023 10:24 van

| Compound | 0.2000000 | 0.5000000 | 1.0000 | 2.5000 | 5.0000 | 10.0000 | Curve | b | Coefficients | | %RSD or R ² |
|-----------------------------------|-----------|-----------|---------|---------|---------|---------|-------|---|--------------|----|---------------------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | | m1 | m2 | |
| | 20.0000 | | | | | | | | | | |
| | Level 7 | | | | | | | | | | |
| 163 1,2,3,5,8-Pentachloronaphthal | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 164 1,2,3,4,6,7-Hexachloronaphtha | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 165 1,2,3,4,5,6,7-Heptachloronaph | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 166 Octachloronaphthalene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 167 2,2',4,4',5-Pentabromobipheny | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 3 Phenol | 1.62208 | 1.74439 | 1.73891 | 1.74173 | 1.62645 | 1.54845 | | | | | |
| | 1.52108 | | | | | | AVRG | | 1.64901 | | 5.72558 |
| 4 Bis(2-Chloroethyl)ether | 1.27683 | 1.24672 | 1.27324 | 1.27820 | 1.20197 | 1.15937 | | | | | |
| | 1.12492 | | | | | | AVRG | | 1.22304 | | 5.07805 |

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 Integrator : HP RTE
 Method file : \\target\share\chem3\nt10.i\20230315.b\ABN.m
 Last Edit : 16-Mar-2023 10:24 van

| Compound | 0.2000000 | 0.5000000 | 1.0000 | 2.5000 | 5.0000 | 10.0000 | Curve | b | Coefficients | | %RSD or R ² |
|---------------------------------|--------------------|-----------|---------|---------|---------|---------|-------|---|--------------|----|---------------------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | | m1 | m2 | |
| | 20.0000 | | | | | | | | | | |
| | Level 7 | | | | | | | | | | |
| 6 2-Chlorophenol | 1.31836 1.43943 | 1.41731 | 1.42385 | 1.43622 | 1.37595 | 1.46817 | | | | | |
| | | | | | | | AVRG | | 1.41133 | | 3.51032 |
| 7 1,3-Dichlorobenzene | 1.56095 1.34684 | 1.60573 | 1.54200 | 1.54039 | 1.43756 | 1.41097 | | | | | |
| | | | | | | | AVRG | | 1.49206 | | 6.30691 |
| 9 1,4-Dichlorobenzene | 1.48239 1.34165 | 1.47806 | 1.50605 | 1.46974 | 1.41044 | 1.40120 | | | | | |
| | | | | | | | AVRG | | 1.44136 | | 4.05847 |
| 11 Benzyl alcohol | 0.61725 0.81015 | 0.73191 | 0.78594 | 0.84185 | 0.81966 | 0.81121 | | | | | |
| | | | | | | | AVRG | | 0.77400 | | 9.98909 |
| 12 1,2-Dichlorobenzene | 1.45921 1.30961 | 1.48260 | 1.47819 | 1.46666 | 1.37638 | 1.35694 | | | | | |
| | | | | | | | AVRG | | 1.41851 | | 4.90685 |
| 13 2-Methylphenol | 1.09919 1.17082 | 1.21769 | 1.25424 | 1.27936 | 1.21240 | 1.18086 | | | | | |
| | | | | | | | AVRG | | 1.20208 | | 4.92825 |
| 14 2,2'-oxybis(1-Chloropropane) | 0.43522 0.40701 | 0.42661 | 0.43105 | 0.42276 | 0.39592 | 0.39745 | | | | | |
| | | | | | | | AVRG | | 0.41658 | | 3.89547 |

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 Last Edit : 16-Mar-2023 10:24 van

| Compound | 0.2000000 | 0.5000000 | 1.0000 | 2.5000 | 5.0000 | 10.0000 | Curve | b | Coefficients | | %RSD or R ² |
|-------------------------------|-----------|-----------|---------|---------|---------|---------|-------|---|--------------|----|---------------------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | | m1 | m2 | |
| | 20.0000 | | | | | | | | | | |
| | Level 7 | | | | | | | | | | |
| 15 4-Methylphenol | 1.14383 | 1.24400 | 1.30788 | 1.37440 | 1.28697 | 1.25011 | | | | | |
| | 1.25884 | | | | | | AVRG | | 1.26658 | | 5.55066 |
| 16 N-Nitroso-di-n-propylamine | 0.88706 | 0.94832 | 0.97868 | 1.00698 | 0.96681 | 0.92156 | | | | | |
| | 0.93481 | | | | | | AVRG | | 0.94917 | | 4.15918 |
| 17 Hexachloroethane | 0.58022 | 0.59004 | 0.60326 | 0.60841 | 0.58693 | 0.58291 | | | | | |
| | 0.58784 | | | | | | AVRG | | 0.59137 | | 1.77557 |
| 19 Nitrobenzene | 0.38078 | 0.40475 | 0.41137 | 0.41334 | 0.39831 | 0.38702 | | | | | |
| | 0.37799 | | | | | | AVRG | | 0.39622 | | 3.65024 |
| 20 Isophorone | 0.43358 | 0.46625 | 0.48978 | 0.51777 | 0.50778 | 0.56780 | | | | | |
| | 0.56515 | | | | | | AVRG | | 0.50687 | | 9.71300 |
| 21 2-Nitrophenol | ++++ | 0.13597 | 0.15387 | 0.18600 | 0.19598 | 0.19551 | | | | | |
| | 0.19693 | | | | | | AVRG | | 0.17738 | | 14.69885 |
| 22 2,4-Dimethylphenol | 0.34977 | 0.37592 | 0.37563 | 0.37929 | 0.35984 | 0.35410 | | | | | |
| | 0.33882 | | | | | | AVRG | | 0.36191 | | 4.26888 |

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 Last Edit : 16-Mar-2023 10:24 van

| Compound | 0.2000000 | 0.5000000 | 1.0000 | 2.5000 | 5.0000 | 10.0000 | Curve | b | Coefficients | | %RSD or R ² |
|-------------------------------|--------------------|-----------|---------|---------|---------|---------|-------|------------|--------------|----------|---------------------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | | m1 | m2 | |
| | 20.0000 | | | | | | | | | | |
| | Level 7 | | | | | | | | | | |
| 23 Bis(2-Chloroethoxy)methane | 0.34150 0.31648 | 0.35424 | 0.35450 | 0.35426 | 0.32695 | 0.32213 | | | | | |
| | | | | | | | AVRG | | 0.33858 | | 4.89393 |
| 24 Benzoic acid | ++++ 3461038 | 22417 | 66707 | 255448 | 660270 | 1448000 | | | | | |
| | | | | | | | QUAD | 0.000e+000 | 4.94987 | -0.21794 | 0.99939 |
| 25 2,4-Dichlorophenol | 0.23282 0.28812 | 0.27832 | 0.29083 | 0.34192 | 0.30456 | 0.30206 | | | | | |
| | | | | | | | AVRG | | 0.29123 | | 11.26110 |
| 26 1,2,4-Trichlorobenzene | 0.36331 0.30769 | 0.36162 | 0.35565 | 0.34701 | 0.33055 | 0.32721 | | | | | |
| | | | | | | | AVRG | | 0.34186 | | 6.06312 |
| 28 Naphthalene | 1.11424 0.98022 | 1.09175 | 1.07629 | 1.08516 | 1.03942 | 1.03054 | | | | | |
| | | | | | | | AVRG | | 1.05966 | | 4.30817 |
| 29 4-Chloroaniline | 0.37193 0.41465 | 0.41433 | 0.41901 | 0.42776 | 0.42475 | 0.42130 | | | | | |
| | | | | | | | AVRG | | 0.41339 | | 4.58016 |
| 30 Hexachlorobutadiene | 0.20420 0.18759 | 0.20378 | 0.20957 | 0.20328 | 0.19562 | 0.19813 | | | | | |
| | | | | | | | AVRG | | 0.20031 | | 3.58980 |

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 Last Edit : 16-Mar-2023 10:24 van

| Compound | 0.2000000 | 0.5000000 | 1.0000 | 2.5000 | 5.0000 | 10.0000 | Curve | b | Coefficients | | %RSD or R ² |
|------------------------------|-----------|-----------|---------|---------|---------|---------|-------|---|--------------|----|---------------------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | | m1 | m2 | |
| | 20.0000 | | | | | | | | | | |
| | Level 7 | | | | | | | | | | |
| 31 4-Chloro-3-methylphenol | +++++ | 0.29534 | 0.30559 | 0.32408 | 0.32488 | 0.32531 | | | | | |
| | 0.31645 | | | | | | AVRG | | 0.31527 | | 3.91891 |
| 32 2-Methylnaphthalene | 0.75681 | 0.76700 | 0.77315 | 0.79056 | 0.77004 | 0.76034 | | | | | |
| | 0.73510 | | | | | | AVRG | | 0.76471 | | 2.22131 |
| 33 Hexachlorocyclopentadiene | +++++ | 0.32165 | 0.33383 | 0.38329 | 0.38506 | 0.39494 | | | | | |
| | 0.40240 | | | | | | AVRG | | 0.37020 | | 9.13748 |
| 34 2,4,6-Trichlorophenol | +++++ | 0.34057 | 0.37275 | 0.40914 | 0.40785 | 0.42738 | | | | | |
| | 0.41440 | | | | | | AVRG | | 0.39535 | | 8.19371 |
| 35 2,4,5-Trichlorophenol | +++++ | 0.39438 | 0.41480 | 0.45747 | 0.45138 | 0.46294 | | | | | |
| | 0.45473 | | | | | | AVRG | | 0.43928 | | 6.35086 |
| 37 2-Chloronaphthalene | 1.31831 | 1.32063 | 1.30168 | 1.33284 | 1.25800 | 1.22443 | | | | | |
| | 1.21247 | | | | | | AVRG | | 1.28119 | | 3.83736 |
| 38 2-Nitroaniline | +++++ | 0.31701 | 0.34135 | 0.38455 | 0.37858 | 0.37163 | | | | | |
| | 0.36621 | | | | | | AVRG | | 0.35989 | | 7.15743 |

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Start Cal Date : 15-MAR-2023 20:34
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 Quant Method : ISTD
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 Target Version : 4.14
 Integrator : HP RTE
 Method file : \\target\share\chem3\nt10.i\20230315.b\ABN.m
 Last Edit : 16-Mar-2023 10:24 van

| Compound | 0.2000000 | 0.5000000 | 1.0000 | 2.5000 | 5.0000 | 10.0000 | Curve | b | Coefficients | | %RSD or R ² |
|-----------------------|-----------|-----------|---------|---------|---------|---------|-------|------------|--------------|----------|---------------------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | | m1 | m2 | |
| | 20.0000 | | | | | | | | | | |
| | Level 7 | | | | | | | | | | |
| 39 Dimethylphthalate | 1.32338 | 1.36926 | 1.34576 | 1.33799 | 1.26731 | 1.25985 | | | | | |
| | 1.19245 | | | | | | AVRG | | 1.29943 | | 4.77776 |
| 40 Acenaphthylene | 1.91415 | 2.07587 | 2.06493 | 2.10180 | 1.96913 | 1.98437 | | | | | |
| | 1.86462 | | | | | | AVRG | | 1.99641 | | 4.43977 |
| 41 2,6-Dinitrotoluene | ++++ | 0.24183 | 0.26775 | 0.29467 | 0.29272 | 0.29827 | | | | | |
| | 0.28900 | | | | | | AVRG | | 0.28071 | | 7.79723 |
| 43 3-Nitroaniline | ++++ | 0.28085 | 0.30392 | 0.33270 | 0.32419 | 0.33426 | | | | | |
| | 0.32509 | | | | | | AVRG | | 0.31683 | | 6.52864 |
| 44 Acenaphthene | 1.28251 | 1.26169 | 1.25479 | 1.25637 | 1.19640 | 1.20560 | | | | | |
| | 1.17607 | | | | | | AVRG | | 1.23335 | | 3.24756 |
| 45 2,4-Dinitrophenol | ++++ | 6815 | 25006 | 95470 | 266923 | 674586 | | | | | |
| | 1465989 | | | | | | QUAD | 0.000e+000 | 5.90362 | -0.26772 | 0.99767 |
| 46 Dibenzofuran | 1.83679 | 1.89233 | 1.84203 | 1.89221 | 1.79473 | 1.76343 | | | | | |
| | 1.70976 | | | | | | AVRG | | 1.81875 | | 3.70158 |

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 Integrator : HP RTE
 Method file : \\target\share\chem3\nt10.i\20230315.b\ABN.m
 Last Edit : 16-Mar-2023 10:24 van

| Compound | 0.2000000 | 0.5000000 | 1.0000 | 2.5000 | 5.0000 | 10.0000 | Curve | Coefficients | | | %RSD or R ² |
|-------------------------------|-----------|-----------|---------|---------|---------|---------|-------|--------------|---------|----------|---------------------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | b | m1 | m2 | |
| | 20.0000 | | | | | | | | | | |
| | Level 7 | | | | | | | | | | |
| 47 4-Nitrophenol | +++++ | 10811 | 26972 | 72524 | 160601 | 346416 | | | | | |
| | 684596 | | | | | | QUAD | 0.000e+000 | 5.01739 | 0.06496 | 0.99964 |
| 48 2,4-Dinitrotoluene | 7302 | 27229 | 61485 | 155514 | 337620 | 723393 | | | | | |
| | 1405429 | | | | | | QUAD | 0.000e+000 | 2.35401 | 0.03800 | 0.99969 |
| 49 Fluorene | 1.40605 | 1.45103 | 1.47671 | 1.50043 | 1.40082 | 1.41469 | | | | | |
| | 1.36635 | | | | | | AVRG | | 1.43087 | | 3.28917 |
| 50 Diethylphthalate | 1.20144 | 1.24989 | 1.30138 | 1.31975 | 1.24786 | 1.27783 | | | | | |
| | 1.32643 | | | | | | AVRG | | 1.27494 | | 3.52654 |
| 51 4-Chlorophenyl-phenylether | 0.69799 | 0.68992 | 0.68629 | 0.69085 | 0.66721 | 0.67242 | | | | | |
| | 0.65828 | | | | | | AVRG | | 0.68042 | | 2.13873 |
| 52 4-Nitroaniline | +++++ | 0.27470 | 0.28009 | 0.23607 | 0.29239 | 0.32686 | | | | | |
| | 0.30307 | | | | | | AVRG | | 0.28553 | | 10.68771 |
| 53 4,6-Dinitro-2-methylphenol | +++++ | 16474 | 45458 | 137459 | 335578 | 794181 | | | | | |
| | 1560214 | | | | | | QUAD | 0.000e+000 | 8.27405 | -0.28973 | 0.99917 |

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 Last Edit : 16-Mar-2023 10:24 van

| Compound | 0.2000000 | 0.5000000 | 1.0000 | 2.5000 | 5.0000 | 10.0000 | Curve | b | Coefficients | | %RSD or R ² |
|------------------------------|---------------------|-----------|---------|---------|---------|---------|-------|------------|--------------|----------|---------------------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | | m1 | m2 | |
| | 20.0000 | | | | | | | | | | |
| | Level 7 | | | | | | | | | | |
| 54 N-Nitrosodiphenylamine | 0.52887 0.51457 | 0.55193 | 0.55561 | 0.56260 | 0.51812 | 0.51180 | | | | | |
| | | | | | | | AVRG | | 0.53479 | | 4.00425 |
| 56 4-Bromophenyl-phenylether | 0.19782 0.22827 | 0.21343 | 0.22682 | 0.23565 | 0.23145 | 0.23263 | | | | | |
| | | | | | | | AVRG | | 0.22372 | | 6.02001 |
| 57 Hexachlorobenzene | 0.24985 0.21902 | 0.23051 | 0.24765 | 0.24355 | 0.22752 | 0.22384 | | | | | |
| | | | | | | | AVRG | | 0.23456 | | 5.24539 |
| 58 Pentachlorophenol | ++++ 885410 | 11460 | 28829 | 82114 | 191672 | 452371 | | | | | |
| | | | | | | | QUAD | 0.000e+000 | 7.20876 | -0.39477 | 0.99931 |
| 60 Phenanthrene | 1.13220 1.04296 | 1.10631 | 1.12088 | 1.12703 | 1.05199 | 1.05362 | | | | | |
| | | | | | | | AVRG | | 1.09071 | | 3.61900 |
| 61 Anthracene | 0.95571 1.04142 | 1.01224 | 1.06526 | 1.11534 | 1.05296 | 1.08099 | | | | | |
| | | | | | | | AVRG | | 1.04628 | | 4.89905 |
| 62 Carbazole | 0.88933 0.88743 | 0.95562 | 0.99664 | 0.98309 | 0.89914 | 0.95168 | | | | | |
| | | | | | | | AVRG | | 0.93756 | | 4.84977 |

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 Integrator : HP RTE
 Method file : \\target\share\chem3\nt10.i\20230315.b\ABN.m
 Last Edit : 16-Mar-2023 10:24 van

| Compound | 0.2000000 | 0.5000000 | 1.0000 | 2.5000 | 5.0000 | 10.0000 | Curve | Coefficients | | | %RSD or R^2 |
|---------------------------|--------------------|-----------|---------|---------|---------|---------|-------|--------------|---------|----------|----------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | b | m1 | m2 | |
| | 20.0000 | | | | | | | | | | |
| | Level 7 | | | | | | | | | | |
| 63 Di-n-butylphthalate | 22443 3613228 | 69653 | 154356 | 388084 | 843782 | 1947970 | QUAD | 0.000e+000 | 0.79314 | 0.00278 | 0.99940 |
| 64 Fluoranthene | 1.36328 1.73056 | 1.52056 | 1.56197 | 1.69351 | 1.74914 | 1.63187 | AVRG | | 1.60727 | | 8.51839 |
| 65 Pyrene | 1.45604 1.71035 | 1.60944 | 1.63082 | 1.72763 | 1.73920 | 1.66793 | AVRG | | 1.64877 | | 5.94096 |
| 67 Butylbenzylphthalate | 7408 1204454 | 23199 | 51900 | 123600 | 257731 | 684422 | QUAD | 0.000e+000 | 1.72914 | -0.07421 | 0.99990 |
| 68 Benzo(a)anthracene | 1.36644 1.37177 | 1.42781 | 1.43022 | 1.48555 | 1.41212 | 1.38924 | AVRG | | 1.41188 | | 2.92087 |
| 70 3,3'-Dichlorobenzidine | ++++ 0.50355 | 0.41680 | 0.45352 | 0.46701 | 0.40921 | 0.46337 | AVRG | | 0.45224 | | 7.71340 |
| 71 Chrysene | 1.35945 1.32243 | 1.42987 | 1.40133 | 1.40717 | 1.37420 | 1.36119 | AVRG | | 1.37938 | | 2.61415 |

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 Integrator : HP RTE
 Method file : \\target\share\chem3\nt10.i\20230315.b\ABN.m
 Last Edit : 16-Mar-2023 10:24 van

| Compound | 0.2000000 | 0.5000000 | 1.0000 | 2.5000 | 5.0000 | 10.0000 | Curve | b | Coefficients | | %RSD or R ² | |
|-------------------------------|--------------------|-----------|---------|---------|---------|---------|-------|------|--------------|---------|---------------------------|----------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | | m1 | m2 | | |
| | 20.0000 | | | | | | | | | | | |
| | Level 7 | | | | | | | | | | | |
| 72 bis(2-Ethylhexyl)phthalate | 9248 1828785 | 29596 | 73435 | 172996 | 367877 | 994125 | | QUAD | 0.000e+000 | 1.70957 | -0.00774 | 0.99996 |
| 73 Di-n-octylphthalate | 1.13505 0.97997 | 1.06235 | 1.05217 | 1.05751 | 1.02687 | 1.01350 | | AVRG | | 1.04677 | | 4.63862 |
| 74 Benzo(b)fluoranthene | 1.17883 1.25750 | 1.29968 | 1.27339 | 1.34308 | 1.32964 | 1.39410 | | AVRG | | 1.29660 | | 5.33463 |
| 75 Benzo(k)fluoranthene | 1.32608 1.35881 | 1.27815 | 1.33166 | 1.33571 | 1.27907 | 1.30669 | | AVRG | | 1.31660 | | 2.28881 |
| 187 Total Benzofluoranthenes | 1.19572 1.24878 | 1.24517 | 1.25308 | 1.28055 | 1.25155 | 1.28847 | | AVRG | | 1.25190 | | 2.38989 |
| 76 Benzo(a)pyrene | 0.99274 1.23814 | 1.10134 | 1.12232 | 1.22032 | 1.20639 | 1.23341 | | AVRG | | 1.15924 | | 7.88419 |
| 78 Indeno(1,2,3-cd)pyrene | 1.12152 1.66662 | 1.32292 | 1.40994 | 1.59027 | 1.62894 | 1.58357 | | AVRG | | 1.47483 | | 13.49853 |

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 Last Edit : 16-Mar-2023 10:24 van

| Compound | 0.2000000 | 0.5000000 | 1.0000 | 2.5000 | 5.0000 | 10.0000 | Curve | b | Coefficients | | %RSD or R ² |
|---------------------------|--------------------|-----------|---------|---------|---------|---------|-------|---|--------------|----|---------------------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | | m1 | m2 | |
| | 20.0000 | | | | | | | | | | |
| | Level 7 | | | | | | | | | | |
| 79 Dibenzo(a,h)anthracene | 0.92561 1.38242 | 1.10908 | 1.17688 | 1.32096 | 1.35010 | 1.30600 | | | | | |
| | | | | | | | AVRG | | 1.22443 | | 13.40261 |
| 80 Benzo(g,h,i)perylene | 0.97961 1.46879 | 1.13240 | 1.20196 | 1.35740 | 1.42789 | 1.36633 | | | | | |
| | | | | | | | AVRG | | 1.27634 | | 13.90451 |
| 90 N-Nitrosodimethylamine | 0.77338 0.64576 | 0.85958 | 0.80600 | 0.83443 | 0.77037 | 0.71258 | | | | | |
| | | | | | | | AVRG | | 0.77173 | | 9.49214 |
| 91 Aniline | 1.71731 1.58456 | 1.77469 | 1.73024 | 1.75620 | 1.67046 | 1.59418 | | | | | |
| | | | | | | | AVRG | | 1.68966 | | 4.49435 |
| 92 1,2-Diphenylhydrazine | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 93 Benzidine | +++++ 0.64270 | 0.58897 | 0.67279 | 0.70566 | 0.65150 | 0.69961 | | | | | |
| | | | | | | | AVRG | | 0.66021 | | 6.50918 |
| 96 p-Cymene | +++++ +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |

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 Last Edit : 16-Mar-2023 10:24 van

| Compound | 0.2000000 | 0.5000000 | 1.0000 | 2.5000 | 5.0000 | 10.0000 | Curve | b | Coefficients | | %RSD or R^2 |
|------------------------|-----------|-----------|---------|---------|---------|---------|-------|---|--------------|----|----------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | | m1 | m2 | |
| | 20.0000 | | | | | | | | | | |
| | Level 7 | | | | | | | | | | |
| 97 Caffeine | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 98 Retene | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000<- |
| 99 Perylene | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000<- |
| 100 3-beta-Coprostanol | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000<- |
| 101 Cholesterol | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000<- |
| 102 beta-Sitosterol | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 103 Pyridine | 1.12693 | 1.33308 | 1.27029 | 1.29268 | 1.21465 | 1.05774 | | | | | |
| | 1.00113 | | | | | | AVRG | | 1.18522 | | 10.61953 |

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| Compound | 0.2000000 | 0.5000000 | 1.0000 | 2.5000 | 5.0000 | 10.0000 | Curve | b | Coefficients | | %RSD or R ² |
|-------------------------------|-----------|-----------|---------|---------|---------|---------|-------|------------|--------------|----|---------------------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | | m1 | m2 | |
| | 20.0000 | | | | | | | | | | |
| | Level 7 | | | | | | | | | | |
| 188 2,6-Dichlorophenol | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | | | | | | AVRG | 0.000e+000 | | | 0.000e+000 <- |
| 189 N-Nitrosomethylethylamine | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | | | | | | AVRG | 0.000e+000 | | | 0.000e+000 <- |
| \$ 1 2-Fluorophenol | 1.17021 | 1.26168 | 1.26677 | 1.30397 | 1.21035 | 1.16777 | | | | | |
| | 1.08677 | | | | | | AVRG | 1.20965 | | | 6.15640 |
| \$ 137 d8-1,4-Dioxane | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | | | | | | AVRG | 0.000e+000 | | | 0.000e+000 <- |
| \$ 2 Phenol-d5 | 1.48543 | 1.59037 | 1.61833 | 1.69140 | 1.60972 | 1.57552 | | | | | |
| | 1.53737 | | | | | | AVRG | 1.58688 | | | 4.09370 |
| \$ 5 2-Chlorophenol-d4 | 1.26134 | 1.35529 | 1.38444 | 1.42017 | 1.37490 | 1.35740 | | | | | |
| | 1.33202 | | | | | | AVRG | 1.35508 | | | 3.66724 |
| \$ 10 1,2-Dichlorobenzene-d4 | 0.94208 | 0.98008 | 1.02521 | 1.02357 | 0.94902 | 0.95435 | | | | | |
| | 0.93778 | | | | | | AVRG | 0.97316 | | | 3.85694 |

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| Compound | 0.2000000 | 0.5000000 | 1.0000 | 2.5000 | 5.0000 | 10.0000 | Curve | b | Coefficients | | %RSD or R ² |
|----------------------------|-----------|-----------|---------|---------|---------|---------|-------|------------|--------------|---------|---------------------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | | m1 | m2 | |
| | 20.0000 | | | | | | | | | | |
| | Level 7 | | | | | | | | | | |
| \$ 18 Nitrobenzene-d5 | 0.36508 | 0.39869 | 0.41015 | 0.42611 | 0.41870 | 0.41105 | | | | | |
| | 0.39644 | | | | | | AVRG | | 0.40374 | | 4.94574 |
| \$ 36 2-Fluorobiphenyl | 1.62353 | 1.63071 | 1.61693 | 1.62588 | 1.55327 | 1.54426 | | | | | |
| | 1.48145 | | | | | | AVRG | | 1.58229 | | 3.61230 |
| \$ 55 2,4,6-Tribromophenol | 2409 | 8451 | 18793 | 50739 | 112412 | 244599 | | | | | |
| | 477920 | | | | | | QUAD | 0.000e+000 | 5.31174 | 0.15583 | 0.99955 |
| \$ 66 Terphenyl-d14 | 1.18457 | 1.24342 | 1.26852 | 1.29524 | 1.26057 | 1.21091 | | | | | |
| | 1.20413 | | | | | | AVRG | | 1.23819 | | 3.21084 |
| \$ 85 p-Cresol-d4 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| \$ 86 Anthracene-d10 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| \$ 87 Fluoranthene-d10 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |

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| Compound | 0.2000000 | 0.5000000 | 1.0000 | 2.5000 | 5.0000 | 10.0000 | Curve | b | Coefficients | | %RSD or R ² |
|---------------------------------|-----------|-----------|---------|---------|---------|---------|-------|---|--------------|----|---------------------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | | m1 | m2 | |
| | 20.0000 | | | | | | | | | | |
| | Level 7 | | | | | | | | | | |
| \$ 88 Dibenz(a,h)anthracene-d14 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| \$ 89 Diphenyl-d10 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| \$ 95 D10-1-methylnaphthalene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |

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Last Edit : 16-Mar-2023 10:24 van

| Curve | Formula | Units |
|----------|-----------------------------|----------|
| Averaged | Amt = Rsp/m1 | Response |
| Quad | Amt = b + m1*Rsp + m2*Rsp^2 | Response |

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt10.i\20230315.b\ABN.m
Batch File: \\target\share\chem3\nt10.i\20230315.b
Inst ID: nt10.i

ID: RT01 RT02 RT03 RT04 RT05 RT06 RT07
FILENAME: NT10031502 NT10031503 NT10031504 NT10031505 NT10031506 NT10031507 NT10031508
INJ. DATE: 15-MAR-2023 15-MAR-2023 15-MAR-2023 15-MAR-2023 15-MAR-2023 15-MAR-2023 16-MAR-2023
INJ. TIME: 20:34 21:12 21:50 22:28 23:06 23:44 00:22

Table with 12 columns: Compound, RT01, RT02, RT03, RT04, RT05, RT06, RT07, EXPECT RT, RT WINDOW, AVG RT, STD DEV. Rows include various chemical compounds like 2-Fluorophenol, Carbaryl, n-Decane, etc.

Reviewer 1 _____ Date: _____
Reviewer 2 _____ Date: _____

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt10.i\20230315.b\ABN.m
Batch File: \\target\share\chem3\nt10.i\20230315.b
Inst ID: nt10.i

| Compound | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | RT07 | EXPEC RT | RT WINDOW | AVG RT | STD DEV |
|------------------------------|--------|--------|--------|--------|--------|--------|--------|----------|---------------|--------|---------|
| 148 Dieldrin | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 47.281 | 44.281-50.281 | +++++ | +++++ |
| 149 TCMX | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 43.387 | 40.387-46.387 | +++++ | +++++ |
| 150 DCBP | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 50.989 | 47.989-53.989 | +++++ | +++++ |
| 138 Chlorobenzilate | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 67.733 | 64.733-70.733 | +++++ | +++++ |
| 139 Isodrin | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 65.067 | 62.067-68.067 | +++++ | +++++ |
| 140 Diallate A | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 65.487 | 62.487-68.487 | +++++ | +++++ |
| 141 Diallate B | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 65.487 | 62.487-68.487 | +++++ | +++++ |
| 142 1,2-Dibromo-3-Chloropr | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 49.917 | 46.917-52.917 | +++++ | +++++ |
| 135 2,3,5,6-Tetrachlorophe | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 16.383 | 13.383-19.383 | +++++ | +++++ |
| 136 2,3,4,5-tetrachlorophe | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 39.317 | 36.317-42.317 | +++++ | +++++ |
| 137 d8-1,4-Dioxane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 2.445 | 0.000-5.445 | +++++ | +++++ |
| * 134 Di-n-octylphthalate-d4 | 24.488 | 24.479 | 24.480 | 24.480 | 24.479 | 24.480 | 24.480 | 24.480 | 21.480-27.480 | 24.481 | 0.003 |
| 133 Butylatedhydroxytoluen | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 15.571 | 12.571-18.571 | +++++ | +++++ |
| 132 3,6-Dimethylphenanthre | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 65.450 | 62.450-68.450 | +++++ | +++++ |
| 131 1-Methylphenanthrene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 64.400 | 61.400-67.400 | +++++ | +++++ |
| 130 Dibenzothiophene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 62.100 | 59.100-65.100 | +++++ | +++++ |
| 129 1-Methylfluorene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 54.912 | 51.912-57.912 | +++++ | +++++ |
| 128 N-Hexadecane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 54.212 | 51.212-57.212 | +++++ | +++++ |
| 127 2-Isopropylaphthalene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 57.650 | 54.650-60.650 | +++++ | +++++ |
| 126 N-Tetradecane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 56.750 | 53.750-59.750 | +++++ | +++++ |
| 144 alpha-Terpineol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 11.447 | 8.447-14.447 | +++++ | +++++ |
| 125 Safrole | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 52.166 | 49.166-55.166 | +++++ | +++++ |

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt10.i\20230315.b\ABN.m
Batch File: \\target\share\chem3\nt10.i\20230315.b
Inst ID: nt10.i

| Compound | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | RT07 | EXPEC RT | RT WINDOW | AVG RT | STD DEV |
|----------------------------|--------|--------|--------|--------|--------|--------|--------|----------|---------------|--------|---------|
| 124 3,4-Dimethylphenol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 50.617 | 47.617-53.617 | +++++ | +++++ |
| 123 Acetophenone | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 10.252 | 7.252-13.252 | +++++ | +++++ |
| 122 Furfuraldehyde | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 43.467 | 40.467-46.467 | +++++ | +++++ |
| 143 1,4-Dioxane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 2.697 | 0.000-5.697 | +++++ | +++++ |
| 121 Quinoline | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 54.500 | 51.500-57.500 | +++++ | +++++ |
| 120 2,3,4,6-Tetrachlorophe | 16.110 | 16.101 | 16.102 | 16.103 | 16.109 | 16.102 | 16.103 | 16.103 | 13.103-19.103 | 16.104 | 0.004 |
| 178 2-Benzyl-4-Chloropheno | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 18.963 | 15.963-21.963 | +++++ | +++++ |
| 119 7,12-Dimethylbenz(a)an | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 47.069 | 44.069-50.069 | +++++ | +++++ |
| 118 Triphenyl Phosphate | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 21.215 | 18.215-24.215 | +++++ | +++++ |
| 117 Butyl Diphenyl Phospha | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 16.761 | 13.761-19.761 | +++++ | +++++ |
| 116 Dibutyl Phenyl Phospha | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 18.747 | 15.747-21.747 | +++++ | +++++ |
| 115 Tributyl Phosphate | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 16.923 | 13.923-19.923 | +++++ | +++++ |
| 114 Beta-Pinene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 48.950 | 45.950-51.950 | +++++ | +++++ |
| 113 Diphenyl Oxide | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 14.341 | 11.341-17.341 | +++++ | +++++ |
| 112 Biphenyl | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 14.085 | 11.085-17.085 | +++++ | +++++ |
| 111 Azobenzene (1,2-DP-Hyd | 16.805 | 16.796 | 16.797 | 16.790 | 16.797 | 16.797 | 16.790 | 16.790 | 13.790-19.790 | 16.796 | 0.005 |
| 110 Tetrachloroguaiacol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 17.140 | 14.140-20.140 | +++++ | +++++ |
| 109 3,4,5-Trichloroguaiaco | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 15.070 | 12.070-18.070 | +++++ | +++++ |
| 181 3,4,6-Trichloroguaiaco | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 15.232 | 12.232-18.232 | +++++ | +++++ |
| 108 4,5,6-Trichloroguaiaco | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 16.374 | 13.374-19.374 | +++++ | +++++ |
| 184 3,4-Dichloroguaiacol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 13.120 | 10.120-16.120 | +++++ | +++++ |
| 107 4,5-Dichloroguaiacol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 14.096 | 11.096-17.096 | +++++ | +++++ |
| 182 4,6-Dichloroguaiacol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 14.096 | 11.096-17.096 | +++++ | +++++ |
| 185 4-Chloroguaiacol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 11.735 | 8.735-14.735 | +++++ | +++++ |

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt10.i\20230315.b\ABN.m
Batch File: \\target\share\chem3\nt10.i\20230315.b
Inst ID: nt10.i

| Compound | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | RT07 | EXPEC RT | RT WINDOW | AVG RT | STD DEV |
|----------------------------|--------|--------|--------|--------|--------|--------|--------|----------|---------------|--------|---------|
| 106 Guaiacol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 9.243 | 6.243-12.243 | +++++ | +++++ |
| 105 1-methylnaphthalene | 13.433 | 13.432 | 13.433 | 13.426 | 13.432 | 13.425 | 13.426 | 13.426 | 10.426-16.426 | 13.430 | 0.004 |
| 151 1,2,4,5-Tetrachloroben | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 11.499 | 8.499-14.499 | +++++ | +++++ |
| 152 Benzo(e)pyrene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 30.943 | 27.943-33.943 | +++++ | +++++ |
| 153 Chlorpyrifos | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 27.642 | 24.642-30.642 | +++++ | +++++ |
| 154 Diazinon | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 25.953 | 22.953-28.953 | +++++ | +++++ |
| 155 Kelthane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 27.750 | 24.750-30.750 | +++++ | +++++ |
| 156 Methyl Parathion | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 26.464 | 23.464-29.464 | +++++ | +++++ |
| 157 Ethyl Parathion | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 27.099 | 24.099-30.099 | +++++ | +++++ |
| 158 Ethion | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 24.513 | 21.513-27.513 | +++++ | +++++ |
| 159 4-Nonylphenol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 25.132 | 22.132-28.132 | +++++ | +++++ |
| 160 Tetraethyl Tin | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 19.528 | 16.528-22.528 | +++++ | +++++ |
| 161 1,2,3-Trichloronaphtha | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 36.246 | 33.246-39.246 | +++++ | +++++ |
| 162 1,2,3,4-Tetrachloronap | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 37.506 | 34.506-40.506 | +++++ | +++++ |
| 163 1,2,3,5,8-Pentachloron | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 38.893 | 35.893-41.893 | +++++ | +++++ |
| 164 1,2,3,4,6,7-Hexachloro | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 39.681 | 36.681-42.681 | +++++ | +++++ |
| 165 1,2,3,4,5,6,7-Heptachl | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 41.123 | 38.123-44.123 | +++++ | +++++ |
| 166 Octachloronaphthalene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 42.253 | 39.253-45.253 | +++++ | +++++ |
| 167 2,2',4,4',5-Pentabromo | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 42.033 | 39.033-45.033 | +++++ | +++++ |
| \$ 2 Phenol-d5 | 8.652 | 8.644 | 8.637 | 8.629 | 8.636 | 8.637 | 8.637 | 8.637 | 5.637-11.637 | 8.639 | 0.007 |
| 3 Phenol | 8.675 | 8.659 | 8.660 | 8.660 | 8.652 | 8.660 | 8.652 | 8.652 | 5.652-11.652 | 8.660 | 0.008 |
| 4 Bis(2-Chloroethyl)ethe | 8.845 | 8.845 | 8.837 | 8.838 | 8.837 | 8.837 | 8.838 | 8.838 | 5.838-11.838 | 8.840 | 0.004 |
| \$ 5 2-Chlorophenol-d4 | 8.938 | 8.937 | 8.930 | 8.930 | 8.930 | 8.930 | 8.930 | 8.930 | 5.930-11.930 | 8.932 | 0.004 |

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt10.i\20230315.b\ABN.m

Batch File: \\target\share\chem3\nt10.i\20230315.b

Inst ID: nt10.i

| Compound | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | RT07 | EXPEC RT | RT WINDOW | AVG RT | STD DEV |
|------------------------------|--------|--------|--------|--------|--------|--------|--------|----------|--------------|--------|---------|
| 6 2-Chlorophenol | 8.969 | 8.961 | 8.961 | 8.961 | 8.961 | 8.961 | 8.961 | 8.961 | 5.961-11.961 | 8.962 | 0.003 |
| 7 1,3-Dichlorobenzene | 9.240 | 9.239 | 9.232 | 9.232 | 9.239 | 9.232 | 9.232 | 9.232 | 6.232-12.232 | 9.235 | 0.004 |
| * 8 1,4-Dichlorobenzene-d4 | 9.302 | 9.301 | 9.302 | 9.302 | 9.294 | 9.302 | 9.294 | 9.294 | 6.294-12.294 | 9.299 | 0.004 |
| 9 1,4-Dichlorobenzene | 9.333 | 9.332 | 9.325 | 9.325 | 9.325 | 9.333 | 9.325 | 9.325 | 6.325-12.325 | 9.328 | 0.004 |
| \$ 10 1,2-Dichlorobenzene-d4 | 9.666 | 9.658 | 9.659 | 9.659 | 9.658 | 9.659 | 9.659 | 9.659 | 6.659-12.659 | 9.660 | 0.003 |
| 11 Benzyl alcohol | 9.565 | 9.557 | 9.558 | 9.558 | 9.557 | 9.558 | 9.558 | 9.558 | 6.558-12.558 | 9.559 | 0.003 |
| 12 1,2-Dichlorobenzene | 9.690 | 9.689 | 9.682 | 9.682 | 9.682 | 9.682 | 9.682 | 9.682 | 6.682-12.682 | 9.684 | 0.004 |
| 13 2-Methylphenol | 9.775 | 9.775 | 9.775 | 9.775 | 9.767 | 9.767 | 9.767 | 9.767 | 6.767-12.767 | 9.772 | 0.004 |
| 14 2,2'-oxybis(1-Chloropr | 9.861 | 9.860 | 9.860 | 9.861 | 9.860 | 9.853 | 9.861 | 9.861 | 6.861-12.861 | 9.859 | 0.003 |
| 15 4-Methylphenol | 10.047 | 10.039 | 10.039 | 10.031 | 10.031 | 10.031 | 10.031 | 10.031 | 7.031-13.031 | 10.036 | 0.006 |
| 16 N-Nitroso-di-n-propyla | 10.132 | 10.124 | 10.117 | 10.117 | 10.109 | 10.117 | 10.109 | 10.109 | 7.109-13.109 | 10.118 | 0.008 |
| 17 Hexachloroethane | 10.280 | 10.279 | 10.272 | 10.272 | 10.272 | 10.272 | 10.272 | 10.272 | 7.272-13.272 | 10.274 | 0.004 |
| \$ 18 Nitrobenzene-d5 | 10.396 | 10.388 | 10.388 | 10.388 | 10.388 | 10.388 | 10.388 | 10.388 | 7.388-13.388 | 10.389 | 0.003 |
| 19 Nitrobenzene | 10.435 | 10.427 | 10.427 | 10.419 | 10.419 | 10.419 | 10.419 | 10.419 | 7.419-13.419 | 10.424 | 0.006 |
| 20 Isophorone | 10.885 | 10.869 | 10.862 | 10.862 | 10.861 | 10.862 | 10.862 | 10.862 | 7.862-13.862 | 10.866 | 0.009 |
| 21 2-Nitrophenol | 11.057 | 11.047 | 11.047 | 11.048 | 11.047 | 11.047 | 11.048 | 11.048 | 8.048-14.048 | 11.049 | 0.003 |
| 22 2,4-Dimethylphenol | 11.091 | 11.089 | 11.081 | 11.082 | 11.081 | 11.081 | 11.082 | 11.082 | 8.082-14.082 | 11.084 | 0.004 |
| 23 Bis(2-Chloroethoxy)met | 11.294 | 11.285 | 11.285 | 11.286 | 11.285 | 11.285 | 11.286 | 11.286 | 8.286-14.286 | 11.286 | 0.003 |
| 24 Benzoic acid | 11.413 | 11.327 | 11.276 | 11.226 | 11.183 | 11.166 | ++++ | 11.166 | 8.166-14.166 | 11.265 | 0.094 |
| 25 2,4-Dichlorophenol | 11.506 | 11.497 | 11.497 | 11.489 | 11.488 | 11.489 | 11.489 | 11.489 | 8.489-14.489 | 11.494 | 0.007 |
| 26 1,2,4-Trichlorobenzene | 11.693 | 11.692 | 11.685 | 11.685 | 11.684 | 11.685 | 11.685 | 11.685 | 8.685-14.685 | 11.687 | 0.004 |
| * 27 Naphthalene-d8 | 11.778 | 11.777 | 11.777 | 11.778 | 11.777 | 11.777 | 11.770 | 11.770 | 8.770-14.770 | 11.776 | 0.003 |
| 28 Naphthalene | 11.824 | 11.815 | 11.816 | 11.817 | 11.816 | 11.816 | 11.817 | 11.817 | 8.817-14.817 | 11.817 | 0.003 |
| 29 4-Chloroaniline | 11.948 | 11.939 | 11.939 | 11.940 | 11.939 | 11.939 | 11.940 | 11.940 | 8.940-14.940 | 11.941 | 0.003 |

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt10.i\20230315.b\ABN.m
Batch File: \\target\share\chem3\nt10.i\20230315.b
Inst ID: nt10.i

| Compound | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | RT07 | EXPEC RT | RT WINDOW | AVG RT | STD DEV |
|---------------------------|--------|--------|--------|--------|--------|--------|--------|----------|---------------|--------|---------|
| 30 Hexachlorobutadiene | 12.172 | 12.171 | 12.171 | 12.172 | 12.171 | 12.171 | 12.172 | 12.172 | 9.172-15.172 | 12.171 | 0.001 |
| 31 4-Chloro-3-methylpheno | 12.892 | 12.883 | 12.875 | 12.876 | 12.875 | 12.883 | 12.876 | 12.876 | 9.876-15.876 | 12.880 | 0.006 |
| 32 2-Methylnaphthalene | 13.209 | 13.208 | 13.200 | 13.201 | 13.200 | 13.208 | 13.201 | 13.201 | 10.201-16.201 | 13.204 | 0.004 |
| 33 Hexachlorocyclopentadi | 13.673 | 13.665 | 13.665 | 13.666 | 13.665 | 13.673 | 13.666 | 13.666 | 10.666-16.666 | 13.667 | 0.004 |
| 34 2,4,6-Trichlorophenol | 13.828 | 13.819 | 13.820 | 13.820 | 13.819 | 13.820 | 13.820 | 13.820 | 10.820-16.820 | 13.821 | 0.003 |
| 35 2,4,5-Trichlorophenol | 13.898 | 13.889 | 13.889 | 13.890 | 13.889 | 13.889 | 13.890 | 13.890 | 10.890-16.890 | 13.891 | 0.003 |
| 36 2-Fluorobiphenyl | 13.991 | 13.982 | 13.982 | 13.983 | 13.982 | 13.982 | 13.975 | 13.975 | 10.975-16.975 | 13.982 | 0.004 |
| 37 2-Chloronaphthalene | 14.207 | 14.198 | 14.199 | 14.200 | 14.199 | 14.199 | 14.192 | 14.192 | 11.192-17.192 | 14.199 | 0.004 |
| 38 2-Nitroaniline | 14.470 | 14.454 | 14.454 | 14.447 | 14.454 | 14.446 | 14.447 | 14.447 | 11.447-17.447 | 14.453 | 0.008 |
| 39 Dimethylphthalate | 14.888 | 14.880 | 14.880 | 14.873 | 14.872 | 14.880 | 14.873 | 14.873 | 11.873-17.873 | 14.878 | 0.006 |
| 40 Acenaphthylene | 15.074 | 15.073 | 15.066 | 15.067 | 15.073 | 15.066 | 15.067 | 15.067 | 12.067-18.067 | 15.069 | 0.004 |
| 41 2,6-Dinitrotoluene | 15.036 | 15.027 | 15.019 | 15.020 | 15.019 | 15.019 | 15.012 | 15.012 | 12.012-18.012 | 15.022 | 0.007 |
| 42 Acenaphthene-d10 | 15.384 | 15.383 | 15.383 | 15.384 | 15.383 | 15.383 | 15.384 | 15.384 | 12.384-18.384 | 15.383 | 0.001 |
| 43 3-Nitroaniline | 15.322 | 15.313 | 15.306 | 15.299 | 15.298 | 15.298 | 15.299 | 15.299 | 12.299-18.299 | 15.305 | 0.009 |
| 44 Acenaphthene | 15.453 | 15.452 | 15.445 | 15.446 | 15.452 | 15.452 | 15.446 | 15.446 | 12.446-18.446 | 15.449 | 0.004 |
| 45 2,4-Dinitrophenol | 15.538 | 15.522 | 15.514 | 15.515 | 15.514 | 15.514 | 15.515 | 15.515 | 12.515-18.515 | 15.519 | 0.009 |
| 46 Dibenzofuran | 15.778 | 15.777 | 15.769 | 15.770 | 15.769 | 15.769 | 15.770 | 15.770 | 12.770-18.770 | 15.772 | 0.004 |
| 47 4-Nitrophenol | 15.623 | 15.607 | 15.599 | 15.600 | 15.599 | 15.599 | 15.592 | 15.592 | 12.592-18.592 | 15.603 | 0.010 |
| 48 2,4-Dinitrotoluene | 15.840 | 15.831 | 15.824 | 15.824 | 15.823 | 15.824 | 15.817 | 15.817 | 12.817-18.817 | 15.826 | 0.007 |
| 49 Fluorene | 16.489 | 16.488 | 16.488 | 16.481 | 16.488 | 16.488 | 16.481 | 16.481 | 13.481-19.481 | 16.486 | 0.003 |
| 50 Diethylphthalate | 16.342 | 16.333 | 16.326 | 16.327 | 16.326 | 16.326 | 16.319 | 16.319 | 13.319-19.319 | 16.329 | 0.007 |
| 51 4-Chlorophenyl-phenyle | 16.474 | 16.473 | 16.465 | 16.466 | 16.473 | 16.473 | 16.466 | 16.466 | 13.466-19.466 | 16.470 | 0.004 |
| 52 4-Nitroaniline | 16.605 | 16.588 | 16.573 | 16.566 | 16.565 | 16.565 | 16.566 | 16.566 | 13.566-19.566 | 16.576 | 0.015 |
| 53 4,6-Dinitro-2-methylph | 16.690 | 16.673 | 16.666 | 16.659 | 16.658 | 16.666 | 16.659 | 16.659 | 13.659-19.659 | 16.667 | 0.011 |

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt10.i\20230315.b\ABN.m
Batch File: \\target\share\chem3\nt10.i\20230315.b
Inst ID: nt10.i

| Compound | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | RT07 | EXPEC RT | RT WINDOW | AVG RT | STD DEV |
|----------------------------|--------|--------|--------|--------|--------|--------|--------|----------|---------------|--------|---------|
| 54 N-Nitrosodiphenylamine | 16.728 | 16.719 | 16.720 | 16.720 | 16.719 | 16.720 | 16.713 | 16.713 | 13.713-19.713 | 16.720 | 0.004 |
| \$ 55 2,4,6-Tribromophenol | 17.029 | 17.020 | 17.020 | 17.021 | 17.020 | 17.020 | 17.021 | 17.021 | 14.021-20.021 | 17.022 | 0.003 |
| 56 4-Bromophenyl-phenylet | 17.476 | 17.475 | 17.475 | 17.476 | 17.475 | 17.475 | 17.476 | 17.476 | 14.476-20.476 | 17.476 | 0.001 |
| 57 Hexachlorobenzene | 17.801 | 17.800 | 17.792 | 17.793 | 17.800 | 17.792 | 17.793 | 17.793 | 14.793-20.793 | 17.796 | 0.004 |
| 58 Pentachlorophenol | 18.157 | 18.148 | 18.149 | 18.149 | 18.148 | 18.149 | 18.149 | 18.149 | 15.149-21.149 | 18.150 | 0.003 |
| * 59 Phenanthrene-d10 | 18.420 | 18.419 | 18.419 | 18.420 | 18.419 | 18.419 | 18.420 | 18.420 | 15.420-21.420 | 18.420 | 0.001 |
| 60 Phenanthrene | 18.474 | 18.473 | 18.466 | 18.467 | 18.466 | 18.466 | 18.467 | 18.467 | 15.467-21.467 | 18.468 | 0.004 |
| 61 Anthracene | 18.567 | 18.566 | 18.559 | 18.559 | 18.558 | 18.559 | 18.559 | 18.559 | 15.559-21.559 | 18.561 | 0.004 |
| 62 Carbazole | 18.892 | 18.883 | 18.884 | 18.884 | 18.883 | 18.884 | 18.884 | 18.884 | 15.884-21.884 | 18.885 | 0.003 |
| 63 Di-n-butylphthalate | 19.666 | 19.665 | 19.665 | 19.666 | 19.665 | 19.665 | 19.666 | 19.666 | 16.666-22.666 | 19.665 | 0.001 |
| 64 Fluoranthene | 20.850 | 20.841 | 20.841 | 20.842 | 20.841 | 20.841 | 20.842 | 20.842 | 17.842-23.842 | 20.842 | 0.003 |
| 65 Pyrene | 21.275 | 21.266 | 21.267 | 21.267 | 21.266 | 21.267 | 21.267 | 21.267 | 18.267-24.267 | 21.268 | 0.003 |
| \$ 66 Terphenyl-d14 | 21.546 | 21.545 | 21.537 | 21.546 | 21.545 | 21.545 | 21.538 | 21.538 | 18.538-24.538 | 21.543 | 0.004 |
| 67 Butylbenzylphthalate | 22.467 | 22.458 | 22.459 | 22.460 | 22.459 | 22.459 | 22.460 | 22.460 | 19.460-25.460 | 22.460 | 0.003 |
| 68 Benzo(a)anthracene | 23.427 | 23.426 | 23.419 | 23.420 | 23.419 | 23.427 | 23.420 | 23.420 | 20.420-26.420 | 23.423 | 0.004 |
| * 69 Chrysene-d12 | 23.458 | 23.457 | 23.450 | 23.451 | 23.450 | 23.450 | 23.451 | 23.451 | 20.451-26.451 | 23.452 | 0.004 |
| 70 3,3'-Dichlorobenzidine | 23.389 | 23.380 | 23.372 | 23.373 | 23.372 | 23.372 | 23.373 | 23.373 | 20.373-26.373 | 23.376 | 0.006 |
| 71 Chrysene | 23.505 | 23.504 | 23.496 | 23.497 | 23.496 | 23.496 | 23.489 | 23.489 | 20.489-26.489 | 23.498 | 0.005 |
| 72 bis(2-Ethylhexyl)phtha | 23.482 | 23.481 | 23.473 | 23.482 | 23.481 | 23.481 | 23.474 | 23.474 | 20.474-26.474 | 23.479 | 0.004 |
| 73 Di-n-octylphthalate | 24.496 | 24.495 | 24.495 | 24.496 | 24.487 | 24.487 | 24.488 | 24.488 | 21.488-27.488 | 24.492 | 0.004 |
| 74 Benzo(b)fluoranthene | 25.378 | 25.377 | 25.370 | 25.371 | 25.370 | 25.370 | 25.363 | 25.363 | 22.363-28.363 | 25.371 | 0.005 |
| 75 Benzo(k)fluoranthene | 25.433 | 25.424 | 25.416 | 25.417 | 25.416 | 25.409 | 25.409 | 25.409 | 22.409-28.409 | 25.418 | 0.008 |
| 187 Total Benzofluoranthen | 25.433 | 25.424 | 25.416 | 25.371 | 25.416 | 25.409 | 25.409 | 25.409 | 22.409-28.409 | 25.411 | 0.020 |
| 76 Benzo(a)pyrene | 26.075 | 26.066 | 26.059 | 26.060 | 26.059 | 26.059 | 26.052 | 26.052 | 23.052-29.052 | 26.061 | 0.007 |

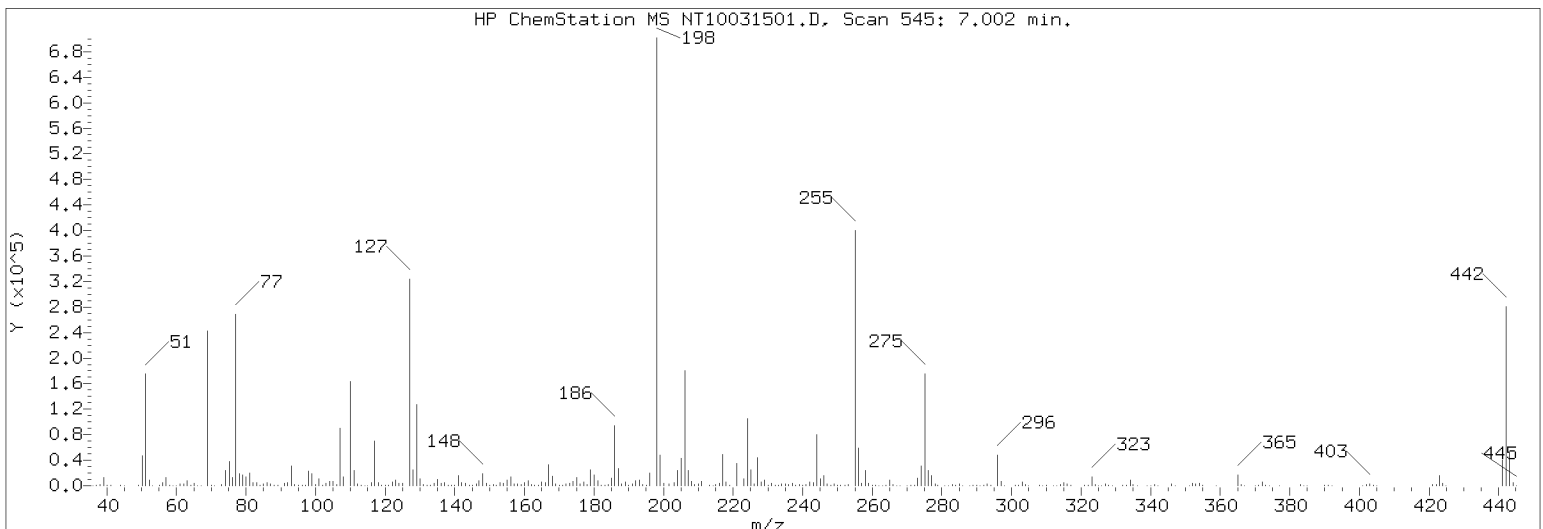
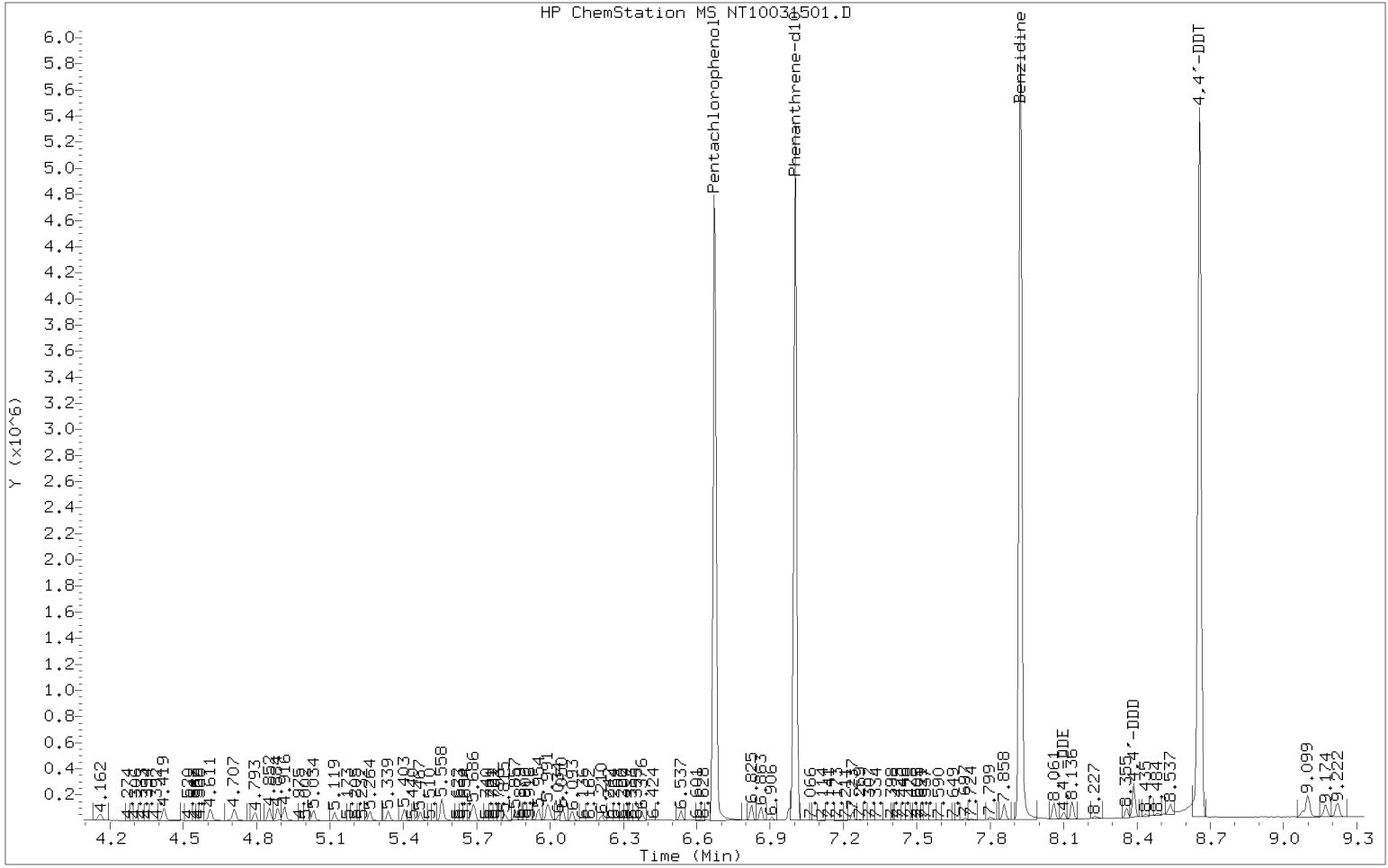
ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt10.i\20230315.b\ABN.m
Batch File: \\target\share\chem3\nt10.i\20230315.b
Inst ID: nt10.i

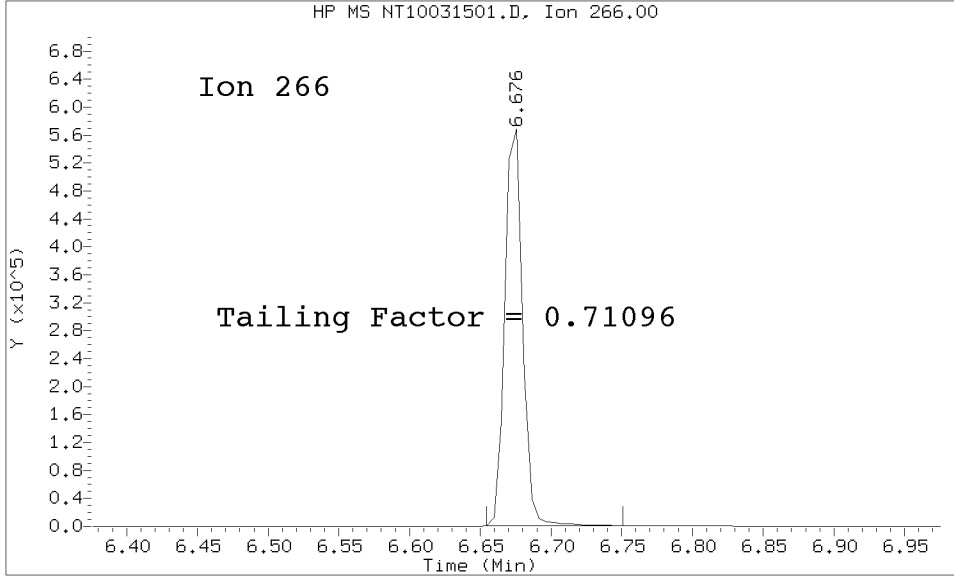
| Compound | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | RT07 | EXPEC RT | RT WINDOW | AVG RT | STD DEV |
|-------------------------------|--------|--------|--------|--------|--------|--------|--------|----------|---------------|--------|---------|
| * 77 Perylene-d12 | 26.191 | 26.183 | 26.183 | 26.184 | 26.183 | 26.183 | 26.184 | 26.184 | 23.184-29.184 | 26.184 | 0.003 |
| 78 Indeno(1,2,3-cd)pyrene | 29.037 | 29.020 | 29.005 | 28.998 | 29.005 | 28.997 | 28.990 | 28.990 | 25.990-31.990 | 29.008 | 0.016 |
| 79 Dibenzo(a,h)anthracene | 29.052 | 29.028 | 29.021 | 29.021 | 29.013 | 29.013 | 29.006 | 29.006 | 26.006-32.006 | 29.022 | 0.015 |
| 80 Benzo(g,h,i)perylene | 29.884 | 29.859 | 29.836 | 29.837 | 29.836 | 29.828 | 29.821 | 29.821 | 26.821-32.821 | 29.843 | 0.021 |
| \$ 85 p-Cresol-d4 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 51.633 | 48.633-54.633 | +++++ | +++++ |
| \$ 86 Anthracene-d10 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 63.533 | 60.533-66.533 | +++++ | +++++ |
| \$ 87 Fluoranthene-d10 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 60.273 | 57.273-63.273 | +++++ | +++++ |
| \$ 88 Dibenzo(a,h)anthracene- | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 78.600 | 75.600-81.600 | +++++ | +++++ |
| \$ 89 Diphenyl-d10 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 50.841 | 47.841-53.841 | +++++ | +++++ |
| 90 N-Nitrosodimethylamine | 4.952 | 4.936 | 4.928 | 4.928 | 4.936 | 4.936 | 4.936 | 4.936 | 1.936-7.936 | 4.936 | 0.008 |
| 91 Aniline | 8.768 | 8.760 | 8.752 | 8.753 | 8.752 | 8.752 | 8.753 | 8.753 | 5.753-11.753 | 8.756 | 0.006 |
| 92 1,2-Diphenylhydrazine | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 56.160 | 53.160-59.160 | +++++ | +++++ |
| 93 Benzidine | 21.074 | 21.073 | 21.065 | 21.066 | 21.073 | 21.073 | 21.066 | 21.066 | 18.066-24.066 | 21.070 | 0.004 |
| \$ 95 D10-1-methylnaphthalen | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 52.075 | 49.075-55.075 | +++++ | +++++ |
| 96 p-Cymene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 49.250 | 46.250-52.250 | +++++ | +++++ |
| 97 Caffeine | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 61.202 | 58.202-64.202 | +++++ | +++++ |
| 98 Retene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 18.787 | 15.787-21.787 | +++++ | +++++ |
| 99 Perylene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 24.361 | 21.361-27.361 | +++++ | +++++ |
| 100 3-beta-Coprostanol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 25.411 | 22.411-28.411 | +++++ | +++++ |
| 101 Cholesterol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 26.023 | 23.023-29.023 | +++++ | +++++ |
| 102 beta-Sitosterol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 79.550 | 76.550-82.550 | +++++ | +++++ |
| 103 Pyridine | 4.952 | 4.951 | 4.951 | 4.959 | 4.974 | 4.982 | 4.998 | 4.998 | 1.998-7.998 | 4.967 | 0.018 |
| 188 2,6-Dichlorophenol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 11.874 | 8.874-14.874 | +++++ | +++++ |
| 189 N-Nitrosomethylethylam | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 5.818 | 2.818-8.818 | +++++ | +++++ |

DFTPP TAILING FACTOR AND BREAKDOWN GRAPHIC REPORT

Datafile Analyzed: /20230315.b/NT10031501.D/NT10031501.D
 Method Used: \20230315.b\DFTPP8270E.m Inst: nt10
 Injection Date: 15-MAR-2023 20:19 Operator: JGR
 Sample Info: SLC0228-TUN1 SLC0228-TUN1
 Report Date: 03/16/2023 12:23



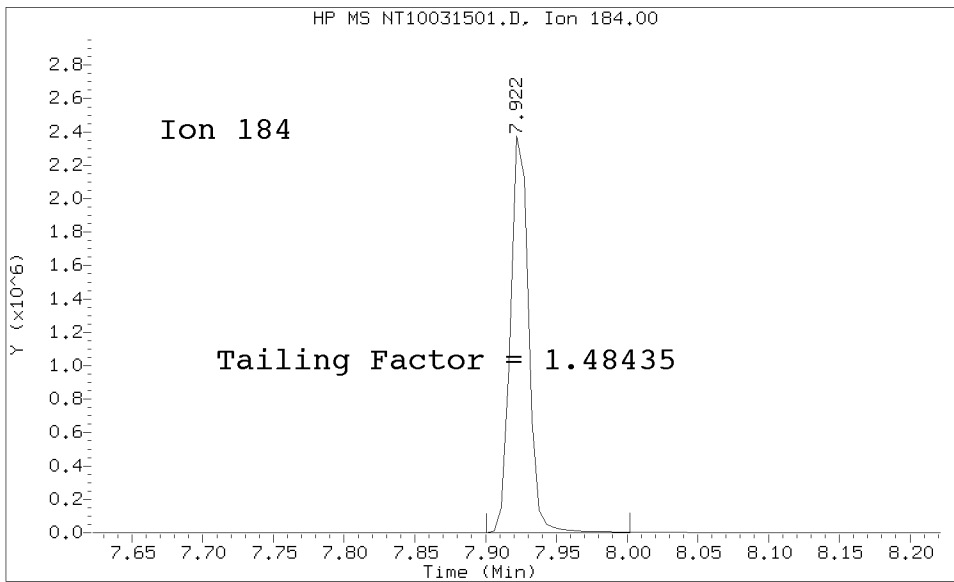
Datafile Analyzed: /20230315.b/NT10031501.D/NT10031501.D
Method Used: \20230315.b\DFTPP8270E.m\sw846ddt.m Inst: nt10
Injection Date: 15-MAR-2023 20:19 Operator: JGR
Sample Info: SEQ-TUN1
Report Date: 03/16/2023 12:23



Pentachlorophenol

=====
Exp. RT = 6.676
Found RT = 6.676

Tail Factor = 0.711 Maximum Allowed = 2.0



Benzidine

=====
Exp. RT = 7.922
Found RT = 7.922

Tail Factor = 1.484 Maximum Allowed = 2.0

8270 TAILING FACTOR/BREAKDOWN SUMMARY RESULTS

TAILING ANALYSIS SUMMARY

| Compound | Tail Factor | Max Allowed | Test |
|-------------------|-------------|-------------|------|
| Pentachlorophenol | 0.7109557 | 2.000 | PASS |
| Benzidine | 1.4843493 | 2.000 | PASS |

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

| Compound | Response | %Breakdown | Max Allowed | Test |
|---------------|----------|------------|-------------|------|
| 4,4-DDT | 962640 | | | N/A |
| 4,4-DDE | 5158 | 0.5 | 20.0 | PASS |
| 4,4-DDD | 41277 | 4.1 | 20.0 | PASS |
| 4,4-DDD + DDE | 46435 | 4.6 | 20.0 | PASS |

Tuning Sample, nt10.i/20230315.b/NT10031501.D, *** PASSED ***

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 198 | Base Peak, 100% relative abundance | 100.00 |
| 68 | Less than 2.00% of mass 69 | 0.14 (0.37) |
| 69 | Mass 69 relative abundance | 36.50 |
| 70 | Less than 2.00% of mass 69 | 0.18 (0.50) |
| 197 | Less than 2.00% of mass 198 | 0.00 |
| 199 | 5.00 - 9.00% of mass 198 | 6.88 |
| 365 | 1.00 - 100.00% of mass 198 | 2.52 |
| 441 | Less than 150.00% of mass 443 | 6.11 (77.09) |
| 442 | Less than 200.00% of mass 198 | 42.80 |
| 443 | 15.00 - 24.00% of mass 442 | 7.92 (18.52) |

Data File: NT10031501.D
 Spectrum: Avg. Scans 544-546 (7.00), Background Scan 536
 Location of Maximum: 198.00
 Number of points: 316

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|-------|--------|--------|--------|--------|--------|--------|-------|
| 36.00 | 226 | 124.00 | 3185 | 207.00 | 17112 | 293.00 | 2318 |
| 37.00 | 575 | 125.00 | 2909 | 208.00 | 4722 | 294.00 | 588 |
| 38.00 | 1820 | 127.00 | 243264 | 209.00 | 1586 | 295.00 | 171 |
| 39.00 | 10159 | 128.00 | 18696 | 210.00 | 2002 | 296.00 | 36168 |
| 40.00 | 405 | 129.00 | 96304 | 211.00 | 5093 | 297.00 | 5056 |
| 41.00 | 312 | 130.00 | 8257 | 213.00 | 371 | 298.00 | 351 |
| 42.00 | 59 | 131.00 | 1626 | 214.00 | 74 | 301.00 | 422 |
| 45.00 | 283 | 132.00 | 820 | 215.00 | 1549 | 302.00 | 552 |
| 49.00 | 910 | 133.00 | 415 | 216.00 | 2822 | 303.00 | 4130 |
| 50.00 | 35800 | 134.00 | 2800 | 217.00 | 36520 | 304.00 | 1107 |
| 51.00 | 136000 | 135.00 | 7704 | 218.00 | 4515 | 305.00 | 126 |
| 52.00 | 7201 | 136.00 | 3195 | 219.00 | 360 | 308.00 | 532 |
| 53.00 | 294 | 137.00 | 3970 | 221.00 | 25672 | 309.00 | 330 |
| 55.00 | 668 | 138.00 | 948 | 222.00 | 2863 | 310.00 | 461 |
| 56.00 | 4206 | 139.00 | 563 | 223.00 | 8094 | 312.00 | 63 |
| 57.00 | 9877 | 140.00 | 1193 | 224.00 | 76160 | 313.00 | 360 |
| 58.00 | 478 | 141.00 | 12476 | 225.00 | 18680 | 314.00 | 1762 |
| 59.00 | 106 | 142.00 | 3876 | 226.00 | 2197 | 315.00 | 4011 |
| 60.00 | 125 | 143.00 | 2757 | 227.00 | 32752 | 316.00 | 2200 |
| 61.00 | 1897 | 144.00 | 726 | 228.00 | 4949 | 317.00 | 416 |
| 62.00 | 2103 | 145.00 | 710 | 229.00 | 6725 | 321.00 | 1068 |
| 63.00 | 6654 | 146.00 | 2200 | 230.00 | 933 | 322.00 | 491 |
| 64.00 | 895 | 147.00 | 6157 | 231.00 | 2854 | 323.00 | 10541 |
| 65.00 | 3279 | 148.00 | 13642 | 232.00 | 574 | 324.00 | 1817 |
| 66.00 | 188 | 149.00 | 2992 | 233.00 | 660 | 325.00 | 178 |
| 67.00 | 249 | 150.00 | 753 | 234.00 | 2022 | 326.00 | 218 |
| 68.00 | 704 | 151.00 | 1678 | 235.00 | 2475 | 327.00 | 2103 |
| 69.00 | 189184 | 152.00 | 893 | 236.00 | 1621 | 328.00 | 1092 |
| 70.00 | 943 | 153.00 | 4091 | 237.00 | 2803 | 329.00 | 211 |
| 71.00 | 156 | 154.00 | 3154 | 238.00 | 375 | 332.00 | 739 |
| 73.00 | 1307 | 155.00 | 6743 | 239.00 | 1387 | 333.00 | 975 |
| 74.00 | 18768 | 156.00 | 10344 | 240.00 | 943 | 334.00 | 6536 |
| 75.00 | 30000 | 157.00 | 2091 | 241.00 | 1718 | 335.00 | 1733 |
| 76.00 | 10364 | 158.00 | 2204 | 242.00 | 4096 | 336.00 | 201 |
| 77.00 | 207552 | 159.00 | 1689 | 243.00 | 3931 | 339.00 | 148 |
| 78.00 | 14246 | 160.00 | 3864 | 244.00 | 58560 | 340.00 | 135 |
| 79.00 | 13356 | 161.00 | 5891 | 245.00 | 7760 | 341.00 | 1142 |
| 80.00 | 10539 | 162.00 | 1637 | 246.00 | 11941 | 342.00 | 277 |
| 81.00 | 15173 | 163.00 | 475 | 247.00 | 2526 | 346.00 | 2192 |
| 82.00 | 3906 | 164.00 | 608 | 248.00 | 602 | 347.00 | 346 |
| 83.00 | 3545 | 165.00 | 4507 | 249.00 | 2169 | 351.00 | 182 |
| 84.00 | 178 | 166.00 | 3807 | 250.00 | 370 | 352.00 | 3059 |
| 85.00 | 2559 | 167.00 | 24880 | 251.00 | 462 | 353.00 | 1950 |
| 86.00 | 4226 | 168.00 | 11639 | 252.00 | 590 | 354.00 | 3010 |
| 87.00 | 1998 | 169.00 | 2046 | 253.00 | 1331 | 355.00 | 569 |
| 88.00 | 783 | 170.00 | 776 | 255.00 | 296384 | 359.00 | 242 |
| 89.00 | 418 | 171.00 | 1036 | 256.00 | 43272 | 365.00 | 13085 |
| 91.00 | 3237 | 172.00 | 2248 | 257.00 | 3394 | 366.00 | 1813 |
| 92.00 | 3764 | 173.00 | 2906 | 258.00 | 18176 | 367.00 | 150 |

| | | | | | | | |
|--------|--------|--------|--------|--------|--------|--------|--------|
| 93.00 | 24104 | 174.00 | 5113 | 259.00 | 2926 | 370.00 | 291 |
| 94.00 | 1672 | 175.00 | 9851 | 260.00 | 520 | 371.00 | 690 |
| 95.00 | 503 | 176.00 | 2588 | 261.00 | 479 | 372.00 | 4605 |
| 96.00 | 1130 | 177.00 | 4756 | 262.00 | 60 | 373.00 | 1002 |
| 97.00 | 380 | 178.00 | 1657 | 263.00 | 151 | 374.00 | 50 |
| 98.00 | 17936 | 179.00 | 18424 | 264.00 | 377 | 377.00 | 67 |
| 99.00 | 14658 | 180.00 | 12975 | 265.00 | 6992 | 383.00 | 1157 |
| 100.00 | 1303 | 181.00 | 6000 | 266.00 | 984 | 384.00 | 328 |
| 101.00 | 8724 | 182.00 | 963 | 267.00 | 105 | 385.00 | 50 |
| 102.00 | 480 | 183.00 | 493 | 268.00 | 248 | 390.00 | 595 |
| 103.00 | 2859 | 184.00 | 1456 | 270.00 | 285 | 391.00 | 401 |
| 104.00 | 5461 | 185.00 | 9317 | 271.00 | 631 | 392.00 | 204 |
| 105.00 | 5056 | 186.00 | 70384 | 272.00 | 750 | 401.00 | 211 |
| 106.00 | 1781 | 187.00 | 20112 | 273.00 | 8749 | 402.00 | 1564 |
| 107.00 | 67936 | 188.00 | 2185 | 274.00 | 23296 | 403.00 | 2292 |
| 108.00 | 10471 | 189.00 | 4453 | 275.00 | 129008 | 404.00 | 796 |
| 109.00 | 595 | 190.00 | 772 | 276.00 | 17320 | 405.00 | 237 |
| 110.00 | 122760 | 191.00 | 2090 | 277.00 | 11470 | 421.00 | 1827 |
| 111.00 | 18400 | 192.00 | 5915 | 278.00 | 2005 | 422.00 | 1658 |
| 112.00 | 2357 | 193.00 | 6863 | 279.00 | 468 | 423.00 | 12304 |
| 113.00 | 756 | 194.00 | 1470 | 281.00 | 147 | 424.00 | 2795 |
| 114.00 | 128 | 195.00 | 841 | 282.00 | 368 | 425.00 | 263 |
| 115.00 | 298 | 196.00 | 14341 | 283.00 | 1453 | 441.00 | 31664 |
| 116.00 | 3871 | 198.00 | 518272 | 284.00 | 874 | 442.00 | 221824 |
| 117.00 | 54088 | 199.00 | 35680 | 285.00 | 2012 | 443.00 | 41072 |
| 118.00 | 3919 | 200.00 | 2830 | 286.00 | 333 | 444.00 | 3778 |
| 119.00 | 531 | 201.00 | 2302 | 288.00 | 146 | 445.00 | 177 |
| 120.00 | 920 | 203.00 | 3657 | 289.00 | 446 | | |
| 121.00 | 362 | 204.00 | 18200 | 290.00 | 444 | | |
| 122.00 | 4396 | 205.00 | 31664 | 291.00 | 199 | | |
| 123.00 | 6778 | 206.00 | 132736 | 292.00 | 486 | | |

Data File: \\target\share\chem3\nt10.1\20230315.6\NT10031502.D

Date: 15-MAR-2023 20:34

Client ID:

Sample Info: SLC0228-CAL7

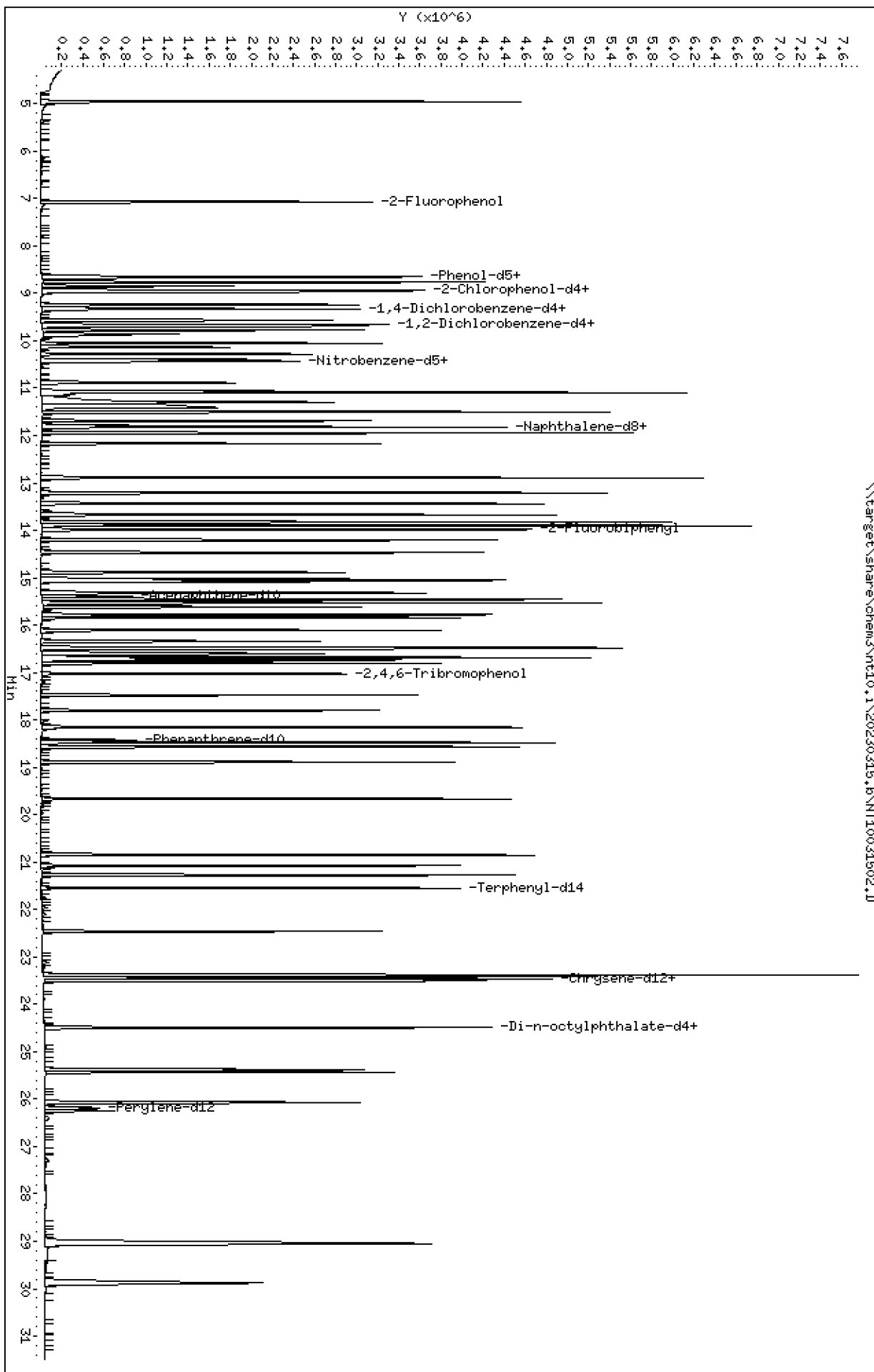
Column phase: ZB-5msi

Instrument: nt10.1

Operator: VTS

Column diameter: 0.25

\\target\share\chem3\nt10.1\20230315.6\NT10031502.D



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230315.b\NT10031502.D
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 Inj Date : 15-MAR-2023 20:34
 Operator : VTS Inst ID: nt10.i
 Smp Info : SLC0228-CAL7
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt10.i\20230315.b\ABN.m
 Meth Date : 16-Mar-2023 12:06 van Quant Type: ISTD
 Cal Date : 16-MAR-2023 00:22 Cal File: NT10031508.D
 Als bottle: 2 Calibration Sample, Level: 7
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: ICAL.sub
 Target Version: 4.14
 Processing Host: VANS-201906

| Compounds | QUANT | SIG | RT | EXP RT | REL RT | RESPONSE | AMOUNTS | |
|---------------------------------|-------|-----|--------|--------|---------|----------|---------|-----------|
| | | | | | | | CAL-AMT | ON-COL |
| | MASS | | | | | | (ug/mL) | (ug/mL) |
| \$ 1 2-Fluorophenol | 112 | | 7.068 | 7.068 | (0.760) | 1445745 | 30.0000 | 26.95 |
| \$ 2 Phenol-d5 | 99 | | 8.652 | 8.636 | (0.930) | 2045181 | 30.0000 | 29.06 |
| 3 Phenol | 94 | | 8.675 | 8.652 | (0.933) | 1349012 | 20.0000 | 18.45 |
| \$ 5 2-Chlorophenol-d4 | 132 | | 8.937 | 8.930 | (0.961) | 1771997 | 30.0000 | 29.49 |
| 4 Bis(2-Chloroethyl)ether | 93 | | 8.845 | 8.837 | (0.951) | 997663 | 20.0000 | 18.40 |
| 6 2-Chlorophenol | 128 | | 8.968 | 8.961 | (0.964) | 1276591 | 20.0000 | 20.40 |
| 7 1,3-Dichlorobenzene | 146 | | 9.239 | 9.231 | (0.993) | 1194475 | 20.0000 | 18.05 |
| * 8 1,4-Dichlorobenzene-d4 | 152 | | 9.301 | 9.293 | (1.000) | 177375 | 4.00000 | |
| 9 1,4-Dichlorobenzene | 146 | | 9.332 | 9.325 | (1.003) | 1189876 | 20.0000 | 18.62 |
| \$ 10 1,2-Dichlorobenzene-d4 | 152 | | 9.666 | 9.658 | (1.039) | 831691 | 20.0000 | 19.27 |
| 12 1,2-Dichlorobenzene | 146 | | 9.689 | 9.682 | (1.042) | 1161461 | 20.0000 | 18.46 |
| 11 Benzyl alcohol | 108 | | 9.565 | 9.557 | (1.028) | 718505 | 20.0000 | 20.93 |
| 14 2,2'-oxybis(1-Chloropropane) | 121 | | 9.860 | 9.860 | (1.060) | 360967 | 20.0000 | 19.54 |
| 13 2-Methylphenol | 108 | | 9.775 | 9.767 | (1.051) | 1038369 | 20.0000 | 19.48 |
| 17 Hexachloroethane | 117 | | 10.279 | 10.271 | (1.105) | 521340 | 20.0000 | 19.88 |
| 16 N-Nitroso-di-n-propylamine | 70 | | 10.132 | 10.108 | (1.089) | 829060 | 20.0000 | 19.70 |
| 15 4-Methylphenol | 108 | | 10.046 | 10.031 | (1.080) | 1116436 | 20.0000 | 19.88 |
| \$ 18 Nitrobenzene-d5 | 82 | | 10.396 | 10.388 | (0.883) | 1307575 | 20.0000 | 19.64 |
| 19 Nitrobenzene | 77 | | 10.434 | 10.419 | (0.886) | 1246701 | 20.0000 | 19.08 |
| 20 Isophorone | 82 | | 10.884 | 10.861 | (0.924) | 1864039 | 20.0000 | 22.30 |
| 21 2-Nitrophenol | 139 | | 11.056 | 11.048 | (0.939) | 649545 | 20.0000 | 19.99 |
| 22 2,4-Dimethylphenol | 107 | | 11.090 | 11.082 | (0.942) | 2235062 | 40.0000 | 37.24 |
| 23 Bis(2-Chloroethoxy)methane | 93 | | 11.294 | 11.285 | (0.959) | 1043843 | 20.0000 | 18.69 |
| 24 Benzoic acid | 105 | | 11.413 | 11.166 | (0.969) | 3461038 | 80.0000 | 79.88 (M) |
| 25 2,4-Dichlorophenol | 162 | | 11.506 | 11.489 | (0.977) | 1900569 | 40.0000 | 39.57 |
| 26 1,2,4-Trichlorobenzene | 180 | | 11.693 | 11.685 | (0.993) | 1014837 | 20.0000 | 18.00 |
| * 27 Naphthalene-d8 | 136 | | 11.778 | 11.770 | (1.000) | 659656 | 4.00000 | |
| 28 Naphthalene | 128 | | 11.824 | 11.816 | (1.004) | 3233035 | 20.0000 | 18.50 |
| 29 4-Chloroaniline | 127 | | 11.947 | 11.940 | (1.014) | 2735281 | 40.0000 | 40.12 |
| 30 Hexachlorobutadiene | 225 | | 12.172 | 12.172 | (1.033) | 618722 | 20.0000 | 18.73 |
| 31 4-Chloro-3-methylphenol | 107 | | 12.891 | 12.876 | (1.095) | 2087503 | 40.0000 | 40.15 |
| 32 2-Methylnaphthalene | 142 | | 13.209 | 13.201 | (1.121) | 2424558 | 20.0000 | 19.23 |
| 33 Hexachlorocyclopentadiene | 237 | | 13.673 | 13.665 | (0.889) | 1420413 | 40.0000 | 43.48 |

| Compounds | QUANT SIG | | AMOUNTS | | | | |
|-----------------------------------|-----------|--------|---------|---------|----------|--------------------|-------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| 34 2,4,6-Trichlorophenol | 196 | 13.828 | 13.820 | (0.899) | 1462769 | 40.0000 | 41.93 |
| 35 2,4,5-Trichlorophenol | 196 | 13.897 | 13.890 | (0.903) | 1605152 | 40.0000 | 41.41 |
| \$ 36 2-Fluorobiphenyl | 172 | 13.990 | 13.975 | (0.909) | 2614669 | 20.0000 | 18.73 |
| 37 2-Chloronaphthalene | 162 | 14.207 | 14.191 | (0.924) | 2139935 | 20.0000 | 18.93 |
| 38 2-Nitroaniline | 65 | 14.470 | 14.447 | (0.941) | 1292686 | 40.0000 | 40.70 |
| 39 Dimethylphthalate | 163 | 14.888 | 14.873 | (0.968) | 2104599 | 20.0000 | 18.35 |
| 40 Acenaphthylene | 152 | 15.074 | 15.066 | (0.980) | 3290934 | 20.0000 | 18.68 |
| 41 2,6-Dinitrotoluene | 165 | 15.035 | 15.012 | (0.977) | 1020135 | 40.0000 | 41.18 |
| * 42 Acenaphthene-d10 | 164 | 15.383 | 15.383 | (1.000) | 352987 | 4.00000 | |
| 43 3-Nitroaniline | 138 | 15.321 | 15.298 | (0.996) | 1147538 | 40.0000 | 41.04 |
| 44 Acenaphthene | 153 | 15.453 | 15.445 | (1.005) | 2075684 | 20.0000 | 19.07 |
| 45 2,4-Dinitrophenol | 184 | 15.538 | 15.515 | (1.010) | 1465989 | 80.0000 | 79.60 |
| 46 Dibenzofuran | 168 | 15.777 | 15.770 | (1.026) | 3017611 | 20.0000 | 18.80 |
| 47 4-Nitrophenol | 109 | 15.623 | 15.592 | (1.016) | 684596 | 40.0000 | 39.90 |
| 48 2,4-Dinitrotoluene | 165 | 15.839 | 15.817 | (1.030) | 1405429 | 40.0000 | 39.90 |
| 50 Diethylphthalate | 149 | 16.342 | 16.319 | (1.062) | 2341062 | 20.0000 | 20.81 |
| 49 Fluorene | 166 | 16.489 | 16.481 | (1.072) | 2411516 | 20.0000 | 19.10 |
| 51 4-Chlorophenyl-phenylether | 204 | 16.473 | 16.466 | (1.071) | 1161824 | 20.0000 | 19.35 |
| 52 4-Nitroaniline | 138 | 16.604 | 16.566 | (1.079) | 1069800 | 40.0000 | 42.46 |
| 53 4,6-Dinitro-2-methylphenol | 198 | 16.689 | 16.658 | (0.906) | 1560214 | 80.0000 | 79.73 |
| 54 N-Nitrosodiphenylamine | 169 | 16.728 | 16.712 | (0.908) | 1511403 | 20.0000 | 19.24 |
| \$ 55 2,4,6-Tribromophenol | 330 | 17.028 | 17.021 | (1.107) | 477920 | 30.0000 | 29.91 |
| 56 4-Bromophenyl-phenylether | 248 | 17.476 | 17.476 | (0.949) | 670470 | 20.0000 | 20.41 |
| 57 Hexachlorobenzene | 284 | 17.800 | 17.793 | (0.966) | 643302 | 20.0000 | 18.67 |
| 58 Pentachlorophenol | 266 | 18.157 | 18.149 | (0.986) | 885410 | 40.0000 | 39.87 |
| * 59 Phenanthrene-d10 | 188 | 18.420 | 18.420 | (1.000) | 587447 | 4.00000 | |
| 60 Phenanthrene | 178 | 18.474 | 18.466 | (1.003) | 3063430 | 20.0000 | 19.12 |
| 61 Anthracene | 178 | 18.567 | 18.559 | (1.008) | 3058907 | 20.0000 | 19.91 |
| 62 Carbazole | 167 | 18.892 | 18.884 | (1.026) | 2606590 | 20.0000 | 18.93 |
| 63 Di-n-butylphthalate | 149 | 19.665 | 19.666 | (1.068) | 3613228 | 20.0000 | 19.93 |
| 64 Fluoranthene | 202 | 20.849 | 20.841 | (0.889) | 3084411 | 20.0000 | 21.53 |
| 65 Pyrene | 202 | 21.275 | 21.267 | (0.907) | 3048380 | 20.0000 | 20.75 |
| \$ 66 Terphenyl-d14 | 244 | 21.545 | 21.538 | (0.918) | 2146134 | 20.0000 | 19.45 |
| 67 Butylbenzylphthalate | 149 | 22.467 | 22.460 | (0.958) | 1204454 | 20.0000 | 19.98 |
| 68 Benzo(a)anthracene | 228 | 23.427 | 23.419 | (0.999) | 2444920 | 20.0000 | 19.43 |
| * 69 Chrysene-d12 | 240 | 23.458 | 23.450 | (1.000) | 356463 | 4.00000 | |
| 70 3,3'-Dichlorobenzidine | 252 | 23.388 | 23.373 | (0.997) | 2692461 | 60.0000 | 66.81 |
| 71 Chrysene | 228 | 23.504 | 23.489 | (1.002) | 2356995 | 20.0000 | 19.17 |
| 72 bis(2-Ethylhexyl)phthalate | 149 | 23.481 | 23.474 | (0.959) | 1828785 | 20.0000 | 20.00 |
| * 134 Di-n-octylphthalate-d4 | 153 | 24.488 | 24.480 | (1.000) | 617041 | 4.00000 | |
| 73 Di-n-octylphthalate | 149 | 24.495 | 24.488 | (1.000) | 3023393 | 20.0000 | 18.72 |
| 74 Benzo(b)fluoranthene | 252 | 25.378 | 25.362 | (0.969) | 2546409 | 20.0000 | 19.40 |
| 75 Benzo(k)fluoranthene | 252 | 25.432 | 25.409 | (0.971) | 2751549 | 20.0000 | 20.64 |
| 76 Benzo(a)pyrene | 252 | 26.075 | 26.052 | (0.996) | 2507206 | 20.0000 | 21.36 |
| * 77 Perylene-d12 | 264 | 26.191 | 26.183 | (1.000) | 404994 | 4.00000 | |
| 78 Indeno(1,2,3-cd)pyrene | 276 | 29.036 | 28.990 | (1.109) | 3374860 | 20.0000 | 22.60 |
| 79 Dibenzo(a,h)anthracene | 278 | 29.052 | 29.005 | (1.109) | 2799351 | 20.0000 | 22.58 |
| 80 Benzo(g,h,i)perylene | 276 | 29.883 | 29.821 | (1.141) | 2974262 | 20.0000 | 23.02 |
| 90 N-Nitrosodimethylamine | 74 | 4.951 | 4.936 | (0.532) | 1145410 | 40.0000 | 33.47 |
| 91 Aniline | 93 | 8.767 | 8.752 | (0.943) | 2810605 | 40.0000 | 37.51 |
| 93 Benzidine | 184 | 21.073 | 21.066 | (0.898) | 2290972 | 40.0000 | 38.94 |
| 103 Pyridine | 79 | 4.951 | 4.997 | (0.532) | 1775759 | 40.0000 | 33.79 |
| 105 1-methylnaphthalene | 142 | 13.433 | 13.425 | (1.141) | 2185994 | 20.0000 | 18.92 |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77 | 16.805 | 16.789 | (1.092) | 2458654 | 20.0000 | 19.56 |

| Compounds | QUANT SIG | | | | | | AMOUNTS | |
|-------------------------------|-----------|--|--------|--------|---------|----------|--------------------|-------------------|
| | MASS | | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| 187 Total Benzofluoranthenes | 252 | | 25.432 | 25.409 | (0.971) | 5057487 | 40.0000 | 39.90 |
| 120 2,3,4,6-Tetrachlorophenol | 232 | | 16.110 | 16.103 | (1.047) | 832943 | 20.0000 | 19.99 |

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 15-MAR-2023
 Lab File ID: NT10031502.D Calibration Time: 21:50
 Lab Smp Id: SLC0228-CAL7
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt10.i\20230315.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 171542 | 85771 | 343084 | 177375 | 3.40 |
| 27 Naphthalene-d8 | 624466 | 312233 | 1248932 | 659656 | 5.64 |
| 42 Acenaphthene-d10 | 337226 | 168613 | 674452 | 352987 | 4.67 |
| 59 Phenanthrene-d10 | 572849 | 286425 | 1145698 | 587447 | 2.55 |
| 69 Chrysene-d12 | 347068 | 173534 | 694136 | 356463 | 2.71 |
| 134 Di-n-octylphthala | 500317 | 250159 | 1000634 | 617041 | 23.33 |
| 77 Perylene-d12 | 421549 | 210775 | 843098 | 404994 | -3.93 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 9.30 | 8.80 | 9.80 | 9.30 | 0.00 |
| 27 Naphthalene-d8 | 11.78 | 11.28 | 12.28 | 11.78 | 0.01 |
| 42 Acenaphthene-d10 | 15.38 | 14.88 | 15.88 | 15.38 | 0.01 |
| 59 Phenanthrene-d10 | 18.42 | 17.92 | 18.92 | 18.42 | 0.00 |
| 69 Chrysene-d12 | 23.45 | 22.95 | 23.95 | 23.46 | 0.04 |
| 134 Di-n-octylphthala | 24.48 | 23.98 | 24.98 | 24.49 | 0.03 |
| 77 Perylene-d12 | 26.18 | 25.68 | 26.68 | 26.19 | 0.03 |

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

REVIEW SUMMARY FOR FILE - NT10031502.D

Lab ID: SLC0228-CAL7
nt10.i, 20230315.b\ABN.m, 15-MAR-2023 20:34

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT | CCV RRT | DELTA | COMPOUND |
|-------|---------|---------|--------------|
| 0.969 | 0.000 | 0.9690 | Benzoic acid |
| 0.532 | 0.538 | -0.0054 | Pyridine |

RRT check based on Ccal File: NT10031508.D

On Column LOD for nt10.i, 20230315.b\ABN.m, ICAL.sub = 0.0000

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

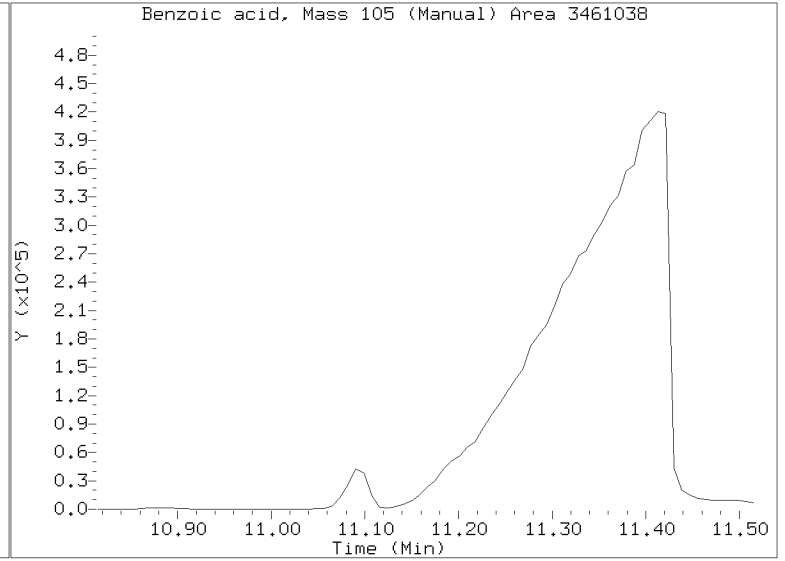
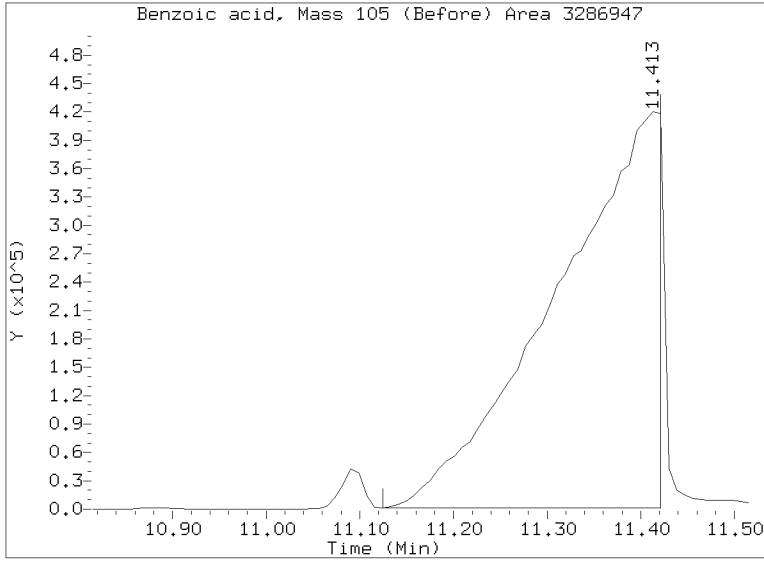
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230315.b/NT10031502.D

Injection Date: 15-MAR-2023 20:34

Lab ID: SLC0228-CAL7 Client ID:

Report Date: 03/16/2023 12:20



Data File: \\target\share\chem3\nt10.1\20230315.6\NT10031503.D

Date: 15-MAR-2023 21:12

Client ID:

Sample Info: SLC0228-CAL6

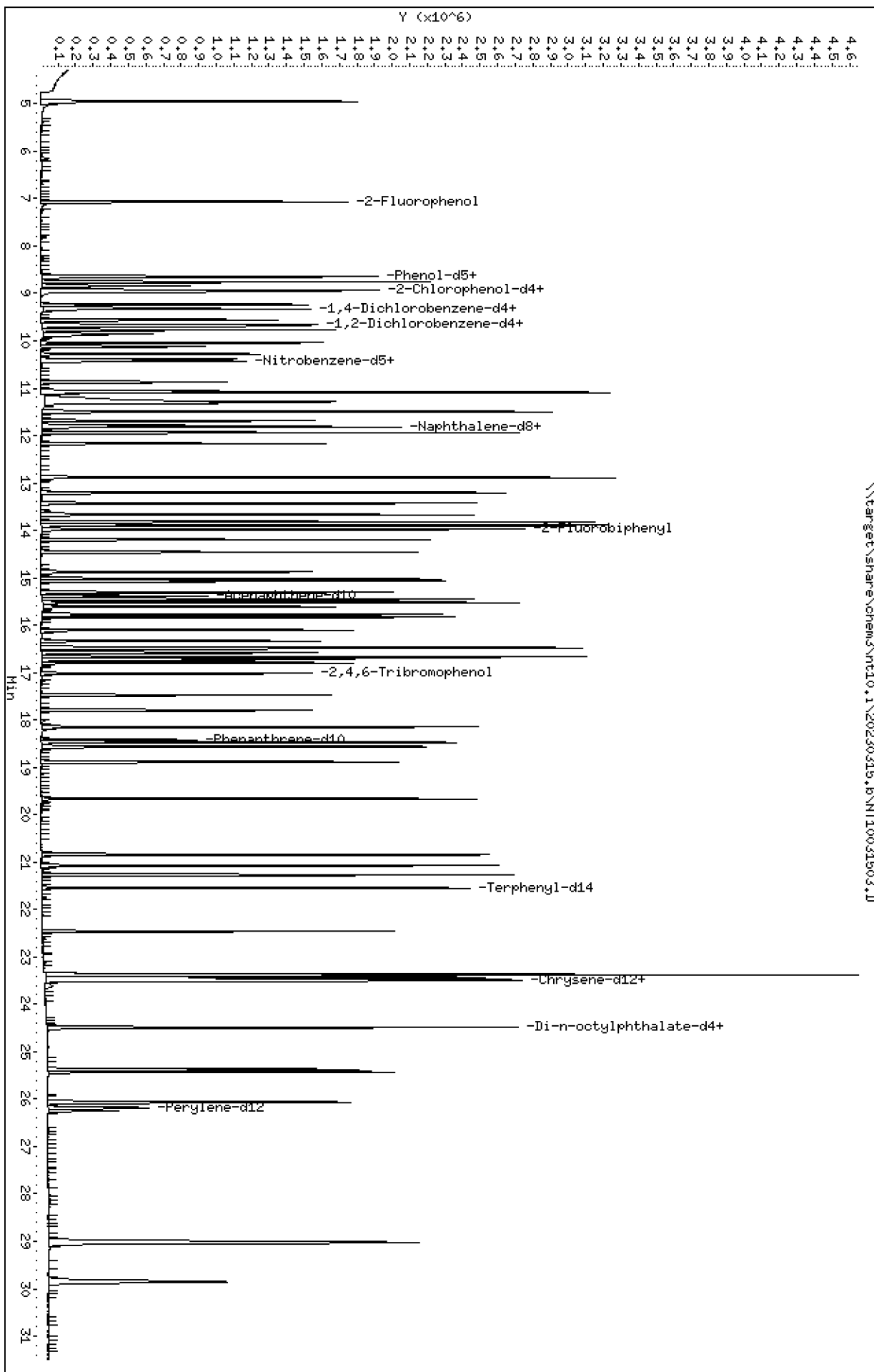
Column phase: ZB-5msi

Instrument: nt10.1

Operator: VTS

Column diameter: 0.25

\\target\share\chem3\nt10.1\20230315.6\NT10031503.D



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230315.b\NT10031503.D
 Lab Smp Id: SLC0228-CAL6
 Inj Date : 15-MAR-2023 21:12
 Operator : VTS Inst ID: nt10.i
 Smp Info : SLC0228-CAL6
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt10.i\20230315.b\ABN.m
 Meth Date : 16-Mar-2023 12:06 van Quant Type: ISTD
 Cal Date : 16-MAR-2023 00:22 Cal File: NT10031508.D
 Als bottle: 3 Calibration Sample, Level: 6
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: ICAL.sub
 Target Version: 4.14
 Processing Host: VANS-201906

| Compounds | QUANT | SIG | RT | EXP RT | REL RT | RESPONSE | AMOUNTS | |
|---------------------------------|-------|-----|--------|--------|---------|----------|---------|-----------|
| | | | | | | | CAL-AMT | ON-COL |
| | MASS | | | | | | (ug/mL) | (ug/mL) |
| \$ 1 2-Fluorophenol | 112 | | 7.067 | 7.068 | (0.760) | 766278 | 15.0000 | 14.48 |
| \$ 2 Phenol-d5 | 99 | | 8.643 | 8.636 | (0.929) | 1033842 | 15.0000 | 14.89 |
| 3 Phenol | 94 | | 8.659 | 8.652 | (0.931) | 677387 | 10.0000 | 9.390 |
| \$ 5 2-Chlorophenol-d4 | 132 | | 8.937 | 8.930 | (0.961) | 890713 | 15.0000 | 15.03 |
| 4 Bis(2-Chloroethyl)ether | 93 | | 8.844 | 8.837 | (0.951) | 507177 | 10.0000 | 9.479 |
| 6 2-Chlorophenol | 128 | | 8.960 | 8.961 | (0.963) | 642264 | 10.0000 | 10.40 |
| 7 1,3-Dichlorobenzene | 146 | | 9.239 | 9.231 | (0.993) | 617243 | 10.0000 | 9.457 |
| * 8 1,4-Dichlorobenzene-d4 | 152 | | 9.301 | 9.293 | (1.000) | 174984 | 4.00000 | |
| 9 1,4-Dichlorobenzene | 146 | | 9.332 | 9.325 | (1.003) | 612971 | 10.0000 | 9.721 |
| \$ 10 1,2-Dichlorobenzene-d4 | 152 | | 9.658 | 9.658 | (1.038) | 417489 | 10.0000 | 9.807 |
| 12 1,2-Dichlorobenzene | 146 | | 9.689 | 9.682 | (1.042) | 593607 | 10.0000 | 9.566 |
| 11 Benzyl alcohol | 108 | | 9.557 | 9.557 | (1.028) | 354873 | 10.0000 | 10.48 |
| 14 2,2'-oxybis(1-Chloropropane) | 121 | | 9.860 | 9.860 | (1.060) | 173870 | 10.0000 | 9.541 (M) |
| 13 2-Methylphenol | 108 | | 9.774 | 9.767 | (1.051) | 516580 | 10.0000 | 9.823 |
| 17 Hexachloroethane | 117 | | 10.279 | 10.271 | (1.105) | 255000 | 10.0000 | 9.857 |
| 16 N-Nitroso-di-n-propylamine | 70 | | 10.124 | 10.108 | (1.088) | 403145 | 10.0000 | 9.709 |
| 15 4-Methylphenol | 108 | | 10.038 | 10.031 | (1.079) | 546873 | 10.0000 | 9.870 |
| \$ 18 Nitrobenzene-d5 | 82 | | 10.387 | 10.388 | (0.882) | 651453 | 10.0000 | 10.18 |
| 19 Nitrobenzene | 77 | | 10.426 | 10.419 | (0.885) | 613375 | 10.0000 | 9.768 |
| 20 Isophorone | 82 | | 10.868 | 10.861 | (0.923) | 899885 | 10.0000 | 11.20 |
| 21 2-Nitrophenol | 139 | | 11.046 | 11.048 | (0.938) | 309860 | 10.0000 | 10.04 |
| 22 2,4-Dimethylphenol | 107 | | 11.089 | 11.082 | (0.942) | 1122389 | 20.0000 | 19.46 |
| 23 Bis(2-Chloroethoxy)methane | 93 | | 11.284 | 11.285 | (0.958) | 510533 | 10.0000 | 9.514 |
| 24 Benzoic acid | 105 | | 11.327 | 11.166 | (0.962) | 1448000 | 40.0000 | 40.68 |
| 25 2,4-Dichlorophenol | 162 | | 11.496 | 11.489 | (0.976) | 957443 | 20.0000 | 20.74 |
| 26 1,2,4-Trichlorobenzene | 180 | | 11.691 | 11.685 | (0.993) | 518573 | 10.0000 | 9.571 |
| * 27 Naphthalene-d8 | 136 | | 11.776 | 11.770 | (1.000) | 633941 | 4.00000 | |
| 28 Naphthalene | 128 | | 11.815 | 11.816 | (1.003) | 1633246 | 10.0000 | 9.725 |
| 29 4-Chloroaniline | 127 | | 11.939 | 11.940 | (1.014) | 1335407 | 20.0000 | 20.38 |
| 30 Hexachlorobutadiene | 225 | | 12.170 | 12.172 | (1.033) | 314014 | 10.0000 | 9.891 |
| 31 4-Chloro-3-methylphenol | 107 | | 12.882 | 12.876 | (1.094) | 1031139 | 20.0000 | 20.64 |
| 32 2-Methylnaphthalene | 142 | | 13.207 | 13.201 | (1.122) | 1205028 | 10.0000 | 9.943 |
| 33 Hexachlorocyclopentadiene | 237 | | 13.664 | 13.665 | (0.888) | 679471 | 20.0000 | 21.34 |

| Compounds | QUANT SIG | | | AMOUNTS | | | |
|-----------------------------------|-----------|--------|--------|---------|----------|--------------------|-------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| 34 2,4,6-Trichlorophenol | 196 | 13.819 | 13.820 | (0.898) | 735280 | 20.0000 | 21.62 |
| 35 2,4,5-Trichlorophenol | 196 | 13.888 | 13.890 | (0.903) | 796463 | 20.0000 | 21.08 |
| \$ 36 2-Fluorobiphenyl | 172 | 13.981 | 13.975 | (0.909) | 1328400 | 10.0000 | 9.760 |
| 37 2-Chloronaphthalene | 162 | 14.198 | 14.191 | (0.923) | 1053277 | 10.0000 | 9.557 |
| 38 2-Nitroaniline | 65 | 14.453 | 14.447 | (0.940) | 639357 | 20.0000 | 20.65 |
| 39 Dimethylphthalate | 163 | 14.879 | 14.873 | (0.967) | 1083747 | 10.0000 | 9.695 |
| 40 Acenaphthylene | 152 | 15.073 | 15.066 | (0.980) | 1706988 | 10.0000 | 9.940 |
| 41 2,6-Dinitrotoluene | 165 | 15.026 | 15.012 | (0.977) | 513157 | 20.0000 | 21.25 |
| * 42 Acenaphthene-d10 | 164 | 15.382 | 15.383 | (1.000) | 344087 | 4.00000 | |
| 43 3-Nitroaniline | 138 | 15.313 | 15.298 | (0.995) | 575069 | 20.0000 | 21.10 |
| 44 Acenaphthene | 153 | 15.452 | 15.445 | (1.005) | 1037074 | 10.0000 | 9.775 |
| 45 2,4-Dinitrophenol | 184 | 15.521 | 15.515 | (1.009) | 674586 | 40.0000 | 42.18 |
| 46 Dibenzofuran | 168 | 15.776 | 15.770 | (1.026) | 1516932 | 10.0000 | 9.696 |
| 47 4-Nitrophenol | 109 | 15.606 | 15.592 | (1.015) | 346416 | 20.0000 | 20.47 |
| 48 2,4-Dinitrotoluene | 165 | 15.830 | 15.817 | (1.029) | 723393 | 20.0000 | 20.47 |
| 50 Diethylphthalate | 149 | 16.333 | 16.319 | (1.062) | 1099214 | 10.0000 | 10.02 |
| 49 Fluorene | 166 | 16.487 | 16.481 | (1.072) | 1216938 | 10.0000 | 9.887 |
| 51 4-Chlorophenyl-phenylether | 204 | 16.472 | 16.466 | (1.071) | 578431 | 10.0000 | 9.882 |
| 52 4-Nitroaniline | 138 | 16.588 | 16.566 | (1.078) | 562336 | 20.0000 | 22.89 |
| 53 4,6-Dinitro-2-methylphenol | 198 | 16.673 | 16.658 | (0.905) | 794181 | 40.0000 | 41.39 |
| 54 N-Nitrosodiphenylamine | 169 | 16.719 | 16.712 | (0.908) | 775287 | 10.0000 | 9.570 |
| \$ 55 2,4,6-Tribromophenol | 330 | 17.020 | 17.021 | (1.106) | 244599 | 15.0000 | 15.42 |
| 56 4-Bromophenyl-phenylether | 248 | 17.474 | 17.476 | (0.949) | 352401 | 10.0000 | 10.40 |
| 57 Hexachlorobenzene | 284 | 17.799 | 17.793 | (0.966) | 339084 | 10.0000 | 9.543 |
| 58 Pentachlorophenol | 266 | 18.148 | 18.149 | (0.985) | 452371 | 20.0000 | 20.65 |
| * 59 Phenanthrene-d10 | 188 | 18.418 | 18.420 | (1.000) | 605930 | 4.00000 | |
| 60 Phenanthrene | 178 | 18.473 | 18.466 | (1.003) | 1596045 | 10.0000 | 9.660 |
| 61 Anthracene | 178 | 18.565 | 18.559 | (1.008) | 1637517 | 10.0000 | 10.33 |
| 62 Carbazole | 167 | 18.883 | 18.884 | (1.025) | 1441624 | 10.0000 | 10.15 |
| 63 Di-n-butylphthalate | 149 | 19.664 | 19.666 | (1.068) | 1947970 | 10.0000 | 10.31 |
| 64 Fluoranthene | 202 | 20.840 | 20.841 | (0.888) | 1783287 | 10.0000 | 10.15 |
| 65 Pyrene | 202 | 21.266 | 21.267 | (0.907) | 1822698 | 10.0000 | 10.12 |
| \$ 66 Terphenyl-d14 | 244 | 21.544 | 21.538 | (0.918) | 1323270 | 10.0000 | 9.780 |
| 67 Butylbenzylphthalate | 149 | 22.458 | 22.460 | (0.957) | 684422 | 10.0000 | 10.10 |
| 68 Benzo(a)anthracene | 228 | 23.426 | 23.419 | (0.999) | 1518143 | 10.0000 | 9.840 |
| * 69 Chrysene-d12 | 240 | 23.457 | 23.450 | (1.000) | 437116 | 4.00000 | |
| 70 3,3'-Dichlorobenzidine | 252 | 23.379 | 23.373 | (0.997) | 1519096 | 30.0000 | 30.74 |
| 71 Chrysene | 228 | 23.503 | 23.489 | (1.002) | 1487493 | 10.0000 | 9.868 |
| 72 bis(2-Ethylhexyl)phthalate | 149 | 23.480 | 23.474 | (0.959) | 994125 | 10.0000 | 10.02 |
| * 134 Di-n-octylphthalate-d4 | 153 | 24.479 | 24.480 | (1.000) | 674085 | 4.00000 | |
| 73 Di-n-octylphthalate | 149 | 24.494 | 24.488 | (1.001) | 1707970 | 10.0000 | 9.682 |
| 74 Benzo(b)fluoranthene | 252 | 25.377 | 25.362 | (0.969) | 1615210 | 10.0000 | 10.75 |
| 75 Benzo(k)fluoranthene | 252 | 25.423 | 25.409 | (0.971) | 1513928 | 10.0000 | 9.925 |
| 76 Benzo(a)pyrene | 252 | 26.066 | 26.052 | (0.996) | 1429031 | 10.0000 | 10.64 |
| * 77 Perylene-d12 | 264 | 26.182 | 26.183 | (1.000) | 463440 | 4.00000 | |
| 78 Indeno(1,2,3-cd)pyrene | 276 | 29.020 | 28.990 | (1.108) | 1834722 | 10.0000 | 10.74 |
| 79 Dibenzo(a,h)anthracene | 278 | 29.027 | 29.005 | (1.109) | 1513126 | 10.0000 | 10.67 |
| 80 Benzo(g,h,i)perylene | 276 | 29.859 | 29.821 | (1.140) | 1583026 | 10.0000 | 10.71 |
| 90 N-Nitrosodimethylamine | 74 | 4.935 | 4.936 | (0.531) | 623452 | 20.0000 | 18.47 |
| 91 Aniline | 93 | 8.759 | 8.752 | (0.942) | 1394783 | 20.0000 | 18.87 |
| 93 Benzidine | 184 | 21.072 | 21.066 | (0.898) | 1529058 | 20.0000 | 21.19 |
| 103 Pyridine | 79 | 4.951 | 4.997 | (0.532) | 925439 | 20.0000 | 17.85 |
| 105 1-methylnaphthalene | 142 | 13.432 | 13.425 | (1.141) | 1103224 | 10.0000 | 9.935 |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77 | 16.796 | 16.789 | (1.092) | 1203614 | 10.0000 | 9.825 |

| Compounds | QUANT SIG | | | | | | AMOUNTS | |
|-------------------------------|-----------|--|--------|--------|---------|----------|--------------------|-------------------|
| | MASS | | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| 187 Total Benzofluoranthenes | 252 | | 25.423 | 25.409 | (0.971) | 2985651 | 20.0000 | 20.58 |
| 120 2,3,4,6-Tetrachlorophenol | 232 | | 16.101 | 16.103 | (1.047) | 374893 | 10.0000 | 10.09 |

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 15-MAR-2023
 Lab File ID: NT10031503.D Calibration Time: 21:50
 Lab Smp Id: SLC0228-CAL6
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt10.i\20230315.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 171542 | 85771 | 343084 | 174984 | 2.01 |
| 27 Naphthalene-d8 | 624466 | 312233 | 1248932 | 633941 | 1.52 |
| 42 Acenaphthene-d10 | 337226 | 168613 | 674452 | 344087 | 2.03 |
| 59 Phenanthrene-d10 | 572849 | 286425 | 1145698 | 605930 | 5.77 |
| 69 Chrysene-d12 | 347068 | 173534 | 694136 | 437116 | 25.95 |
| 134 Di-n-octylphthala | 500317 | 250159 | 1000634 | 674085 | 34.73 |
| 77 Perylene-d12 | 421549 | 210775 | 843098 | 463440 | 9.94 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 9.30 | 8.80 | 9.80 | 9.30 | -0.00 |
| 27 Naphthalene-d8 | 11.78 | 11.28 | 12.28 | 11.78 | -0.00 |
| 42 Acenaphthene-d10 | 15.38 | 14.88 | 15.88 | 15.38 | -0.00 |
| 59 Phenanthrene-d10 | 18.42 | 17.92 | 18.92 | 18.42 | -0.00 |
| 69 Chrysene-d12 | 23.45 | 22.95 | 23.95 | 23.46 | 0.03 |
| 134 Di-n-octylphthala | 24.48 | 23.98 | 24.98 | 24.48 | -0.00 |
| 77 Perylene-d12 | 26.18 | 25.68 | 26.68 | 26.18 | -0.00 |

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

REVIEW SUMMARY FOR FILE - NT10031503.D

Lab ID: SLC0228-CAL6
nt10.i, 20230315.b\ABN.m, 15-MAR-2023 21:12

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT | CCV RRT | DELTA | COMPOUND |
|-------|---------|---------|--------------|
| 0.962 | 0.000 | 0.9618 | Benzoic acid |
| 0.532 | 0.538 | -0.0054 | Pyridine |

RRT check based on Ccal File: NT10031508.D

On Column LOD for nt10.i, 20230315.b\ABN.m, ICAL.sub = 0.0000

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

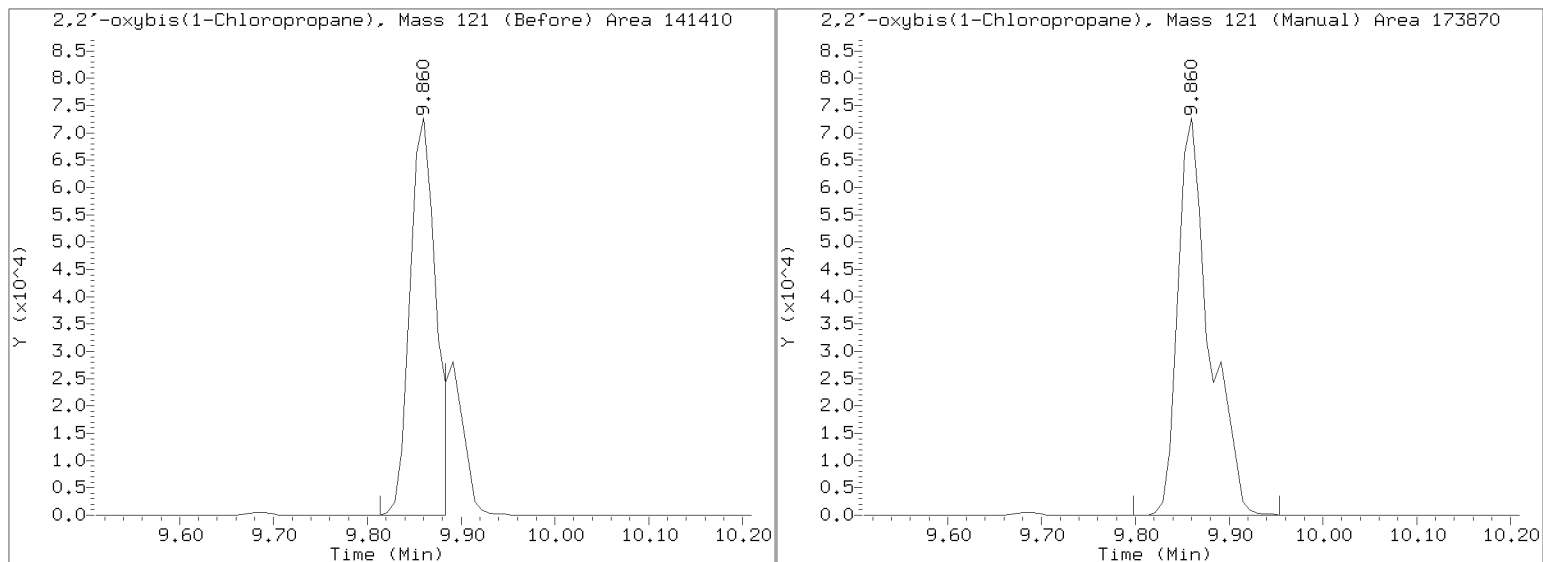
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230315.b/NT10031503.D

Injection Date: 15-MAR-2023 21:12

Lab ID: SLC0228-CAL6 Client ID:

Report Date: 03/16/2023 12:20



Data File: \\target\share\chem3\nt10.1\20230315.6\NT10031504.D

Date: 15-MAR-2023 21:50

Client ID:

Sample Info: SLC0228-CALS

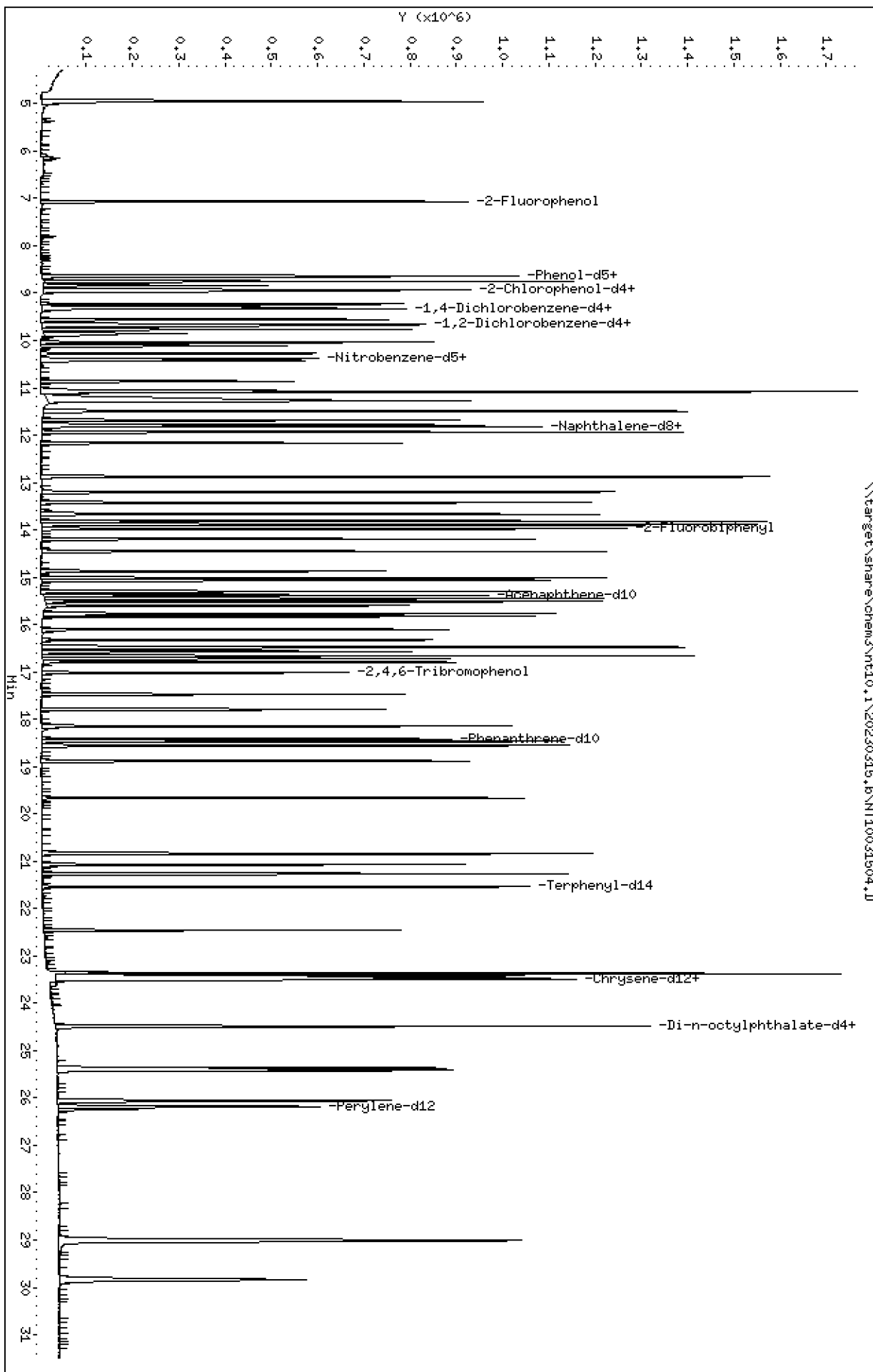
Column phase: ZB-5msi

Instrument: nt10.1

Operator: VTS

Column diameter: 0.25

Page 1



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230315.b\NT10031504.D
 Lab Smp Id: SLC0228-CAL5
 Inj Date : 15-MAR-2023 21:50
 Operator : VTS Inst ID: nt10.i
 Smp Info : SLC0228-CAL5
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt10.i\20230315.b\ABN.m
 Meth Date : 16-Mar-2023 12:06 van Quant Type: ISTD
 Cal Date : 16-MAR-2023 00:22 Cal File: NT10031508.D
 Als bottle: 4 Calibration Sample, Level: 5
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: ICAL.sub
 Target Version: 4.14
 Processing Host: VANS-201906

| Compounds | QUANT | SIG | RT | EXP RT | REL RT | RESPONSE | AMOUNTS | |
|---------------------------------|-------|-----|--------|--------|---------|----------|--------------------|-------------------|
| | | | | | | | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| \$ 1 2-Fluorophenol | 112 | | 7.068 | 7.068 | (0.760) | 389299 | 7.50000 | 7.504 |
| \$ 2 Phenol-d5 | 99 | | 8.636 | 8.636 | (0.928) | 517751 | 7.50000 | 7.608 |
| 3 Phenol | 94 | | 8.659 | 8.652 | (0.931) | 348755 | 5.00000 | 4.932 |
| \$ 5 2-Chlorophenol-d4 | 132 | | 8.930 | 8.930 | (0.960) | 442224 | 7.50000 | 7.610 |
| 4 Bis(2-Chloroethyl)ether | 93 | | 8.837 | 8.837 | (0.950) | 257735 | 5.00000 | 4.914 |
| 6 2-Chlorophenol | 128 | | 8.960 | 8.961 | (0.963) | 295042 | 5.00000 | 4.875 |
| 7 1,3-Dichlorobenzene | 146 | | 9.231 | 9.231 | (0.992) | 308253 | 5.00000 | 4.817 |
| * 8 1,4-Dichlorobenzene-d4 | 152 | | 9.301 | 9.293 | (1.000) | 171542 | 4.00000 | |
| 9 1,4-Dichlorobenzene | 146 | | 9.324 | 9.325 | (1.002) | 302437 | 5.00000 | 4.893 |
| \$ 10 1,2-Dichlorobenzene-d4 | 152 | | 9.658 | 9.658 | (1.038) | 203496 | 5.00000 | 4.876 |
| 12 1,2-Dichlorobenzene | 146 | | 9.681 | 9.682 | (1.041) | 295133 | 5.00000 | 4.851 |
| 11 Benzyl alcohol | 108 | | 9.557 | 9.557 | (1.028) | 175758 | 5.00000 | 5.295 |
| 14 2,2'-oxybis(1-Chloropropane) | 121 | | 9.860 | 9.860 | (1.060) | 84897 | 5.00000 | 4.752 (M) |
| 13 2-Methylphenol | 108 | | 9.775 | 9.767 | (1.051) | 259972 | 5.00000 | 5.043 |
| 17 Hexachloroethane | 117 | | 10.271 | 10.271 | (1.104) | 125853 | 5.00000 | 4.962 |
| 16 N-Nitroso-di-n-propylamine | 70 | | 10.116 | 10.108 | (1.088) | 207311 | 5.00000 | 5.093 |
| 15 4-Methylphenol | 108 | | 10.038 | 10.031 | (1.079) | 275961 | 5.00000 | 5.080 |
| \$ 18 Nitrobenzene-d5 | 82 | | 10.388 | 10.388 | (0.882) | 326832 | 5.00000 | 5.185 |
| 19 Nitrobenzene | 77 | | 10.426 | 10.419 | (0.885) | 310914 | 5.00000 | 5.026 |
| 20 Isophorone | 82 | | 10.861 | 10.861 | (0.922) | 396361 | 5.00000 | 5.009 |
| 21 2-Nitrophenol | 139 | | 11.047 | 11.048 | (0.938) | 152976 | 5.00000 | 5.059 |
| 22 2,4-Dimethylphenol | 107 | | 11.081 | 11.082 | (0.941) | 561764 | 10.0000 | 9.887 |
| 23 Bis(2-Chloroethoxy)methane | 93 | | 11.284 | 11.285 | (0.958) | 255208 | 5.00000 | 4.828 |
| 24 Benzoic acid | 105 | | 11.276 | 11.166 | (0.957) | 660270 | 20.0000 | 19.96 |
| 25 2,4-Dichlorophenol | 162 | | 11.497 | 11.489 | (0.976) | 475467 | 10.0000 | 10.46 |
| 26 1,2,4-Trichlorobenzene | 180 | | 11.684 | 11.685 | (0.992) | 258021 | 5.00000 | 4.835 |
| * 27 Naphthalene-d8 | 136 | | 11.777 | 11.770 | (1.000) | 624466 | 4.00000 | |
| 28 Naphthalene | 128 | | 11.815 | 11.816 | (1.003) | 811352 | 5.00000 | 4.904 |
| 29 4-Chloroaniline | 127 | | 11.939 | 11.940 | (1.014) | 663111 | 10.0000 | 10.27 |
| 30 Hexachlorobutadiene | 225 | | 12.171 | 12.172 | (1.033) | 152701 | 5.00000 | 4.883 |
| 31 4-Chloro-3-methylphenol | 107 | | 12.875 | 12.876 | (1.093) | 507195 | 10.0000 | 10.30 |
| 32 2-Methylnaphthalene | 142 | | 13.200 | 13.201 | (1.121) | 601081 | 5.00000 | 5.035 |
| 33 Hexachlorocyclopentadiene | 237 | | 13.664 | 13.665 | (0.888) | 324634 | 10.0000 | 10.40 |

| Compounds | QUANT SIG | | | AMOUNTS | | | |
|-----------------------------------|-----------|--------|--------|---------|----------|--------------------|-------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| 34 2,4,6-Trichlorophenol | 196 | 13.819 | 13.820 | (0.898) | 343842 | 10.0000 | 10.32 |
| 35 2,4,5-Trichlorophenol | 196 | 13.889 | 13.890 | (0.903) | 380542 | 10.0000 | 10.28 |
| § 36 2-Fluorobiphenyl | 172 | 13.982 | 13.975 | (0.909) | 654752 | 5.00000 | 4.908 |
| 37 2-Chloronaphthalene | 162 | 14.198 | 14.191 | (0.923) | 530286 | 5.00000 | 4.909 |
| 38 2-Nitroaniline | 65 | 14.454 | 14.447 | (0.940) | 319171 | 10.0000 | 10.52 |
| 39 Dimethylphthalate | 163 | 14.879 | 14.873 | (0.967) | 534213 | 5.00000 | 4.876 |
| 40 Acenaphthylene | 152 | 15.065 | 15.066 | (0.979) | 830053 | 5.00000 | 4.932 |
| 41 2,6-Dinitrotoluene | 165 | 15.019 | 15.012 | (0.976) | 246779 | 10.0000 | 10.43 |
| * 42 Acenaphthene-d10 | 164 | 15.382 | 15.383 | (1.000) | 337226 | 4.00000 | |
| 43 3-Nitroaniline | 138 | 15.305 | 15.298 | (0.995) | 273315 | 10.0000 | 10.23 |
| 44 Acenaphthene | 153 | 15.444 | 15.445 | (1.004) | 504323 | 5.00000 | 4.850 |
| 45 2,4-Dinitrophenol | 184 | 15.514 | 15.515 | (1.009) | 266923 | 20.0000 | 18.02 |
| 46 Dibenzofuran | 168 | 15.769 | 15.770 | (1.025) | 756537 | 5.00000 | 4.934 |
| 47 4-Nitrophenol | 109 | 15.599 | 15.592 | (1.014) | 160601 | 10.0000 | 9.617 |
| 48 2,4-Dinitrotoluene | 165 | 15.823 | 15.817 | (1.029) | 337620 | 10.0000 | 9.579 |
| 50 Diethylphthalate | 149 | 16.326 | 16.319 | (1.061) | 526014 | 5.00000 | 4.894 |
| 49 Fluorene | 166 | 16.488 | 16.481 | (1.072) | 590490 | 5.00000 | 4.895 |
| 51 4-Chlorophenyl-phenylether | 204 | 16.465 | 16.466 | (1.070) | 281249 | 5.00000 | 4.903 |
| 52 4-Nitroaniline | 138 | 16.573 | 16.566 | (1.077) | 246501 | 10.0000 | 10.24 |
| 53 4,6-Dinitro-2-methylphenol | 198 | 16.665 | 16.658 | (0.905) | 335578 | 20.0000 | 18.99 |
| 54 N-Nitrosodiphenylamine | 169 | 16.719 | 16.712 | (0.908) | 371008 | 5.00000 | 4.844 |
| § 55 2,4,6-Tribromophenol | 330 | 17.020 | 17.021 | (1.106) | 112412 | 7.50000 | 7.152 |
| 56 4-Bromophenyl-phenylether | 248 | 17.475 | 17.476 | (0.949) | 165732 | 5.00000 | 5.173 |
| 57 Hexachlorobenzene | 284 | 17.792 | 17.793 | (0.966) | 162915 | 5.00000 | 4.850 |
| 58 Pentachlorophenol | 266 | 18.148 | 18.149 | (0.985) | 191672 | 10.0000 | 9.471 |
| * 59 Phenanthrene-d10 | 188 | 18.419 | 18.420 | (1.000) | 572849 | 4.00000 | |
| 60 Phenanthrene | 178 | 18.465 | 18.466 | (1.003) | 753291 | 5.00000 | 4.822 |
| 61 Anthracene | 178 | 18.558 | 18.559 | (1.008) | 753981 | 5.00000 | 5.032 |
| 62 Carbazole | 167 | 18.883 | 18.884 | (1.025) | 643836 | 5.00000 | 4.795 |
| 63 Di-n-butylphthalate | 149 | 19.664 | 19.666 | (1.068) | 843782 | 5.00000 | 4.697 |
| 64 Fluoranthene | 202 | 20.840 | 20.841 | (0.889) | 758837 | 5.00000 | 5.441 |
| 65 Pyrene | 202 | 21.266 | 21.267 | (0.907) | 754525 | 5.00000 | 5.274 |
| § 66 Terphenyl-d14 | 244 | 21.537 | 21.538 | (0.918) | 546879 | 5.00000 | 5.090 |
| 67 Butylbenzylphthalate | 149 | 22.458 | 22.460 | (0.958) | 257731 | 5.00000 | 4.972 |
| 68 Benzo(a)anthracene | 228 | 23.418 | 23.419 | (0.999) | 612627 | 5.00000 | 5.001 |
| * 69 Chrysene-d12 | 240 | 23.449 | 23.450 | (1.000) | 347068 | 4.00000 | |
| 70 3,3'-Dichlorobenzidine | 252 | 23.372 | 23.373 | (0.997) | 532591 | 15.0000 | 13.57 |
| 71 Chrysene | 228 | 23.496 | 23.489 | (1.002) | 596175 | 5.00000 | 4.981 |
| 72 bis(2-Ethylhexyl)phthalate | 149 | 23.473 | 23.474 | (0.959) | 367877 | 5.00000 | 5.011 |
| * 134 Di-n-octylphthalate-d4 | 153 | 24.479 | 24.480 | (1.000) | 500317 | 4.00000 | |
| 73 Di-n-octylphthalate | 149 | 24.495 | 24.488 | (1.001) | 642200 | 5.00000 | 4.905 |
| 74 Benzo(b)fluoranthene | 252 | 25.369 | 25.362 | (0.969) | 700635 | 5.00000 | 5.127 (H) |
| 75 Benzo(k)fluoranthene | 252 | 25.416 | 25.409 | (0.971) | 673988 | 5.00000 | 4.857 |
| 76 Benzo(a)pyrene | 252 | 26.058 | 26.052 | (0.995) | 635688 | 5.00000 | 5.203 |
| * 77 Perylene-d12 | 264 | 26.182 | 26.183 | (1.000) | 421549 | 4.00000 | |
| 78 Indeno(1,2,3-cd)pyrene | 276 | 29.004 | 28.990 | (1.108) | 858348 | 5.00000 | 5.522 |
| 79 Dibenzo(a,h)anthracene | 278 | 29.020 | 29.005 | (1.108) | 711419 | 5.00000 | 5.513 |
| 80 Benzo(g,h,i)perylene | 276 | 29.836 | 29.821 | (1.140) | 752407 | 5.00000 | 5.594 |
| 90 N-Nitrosodimethylamine | 74 | 4.928 | 4.936 | (0.530) | 330376 | 10.0000 | 9.982 |
| 91 Aniline | 93 | 8.752 | 8.752 | (0.941) | 716385 | 10.0000 | 9.886 |
| 93 Benzidine | 184 | 21.065 | 21.066 | (0.898) | 565285 | 10.0000 | 9.868 |
| 103 Pyridine | 79 | 4.951 | 4.997 | (0.532) | 520909 | 10.0000 | 10.25 |
| 105 1-methylnaphthalene | 142 | 13.432 | 13.425 | (1.141) | 551037 | 5.00000 | 5.038 |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77 | 16.796 | 16.789 | (1.092) | 603260 | 5.00000 | 5.024 |

| Compounds | QUANT SIG | | | | | | AMOUNTS | |
|-------------------------------|-----------|--|--------|--------|---------|----------|--------------------|-------------------|
| | MASS | | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| ===== | ===== | | ===== | ===== | ===== | ===== | ===== | |
| 187 Total Benzofluoranthenes | 252 | | 25.416 | 25.409 | (0.971) | 1318971 | 10.0000 | 9.997 |
| 120 2,3,4,6-Tetrachlorophenol | 232 | | 16.101 | 16.103 | (1.047) | 169344 | 5.00000 | 4.836 |

QC Flag Legend

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

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 15-MAR-2023
 Lab File ID: NT10031504.D Calibration Time: 21:50
 Lab Smp Id: SLC0228-CAL5
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt10.i\20230315.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 171542 | 85771 | 343084 | 171542 | 0.00 |
| 27 Naphthalene-d8 | 624466 | 312233 | 1248932 | 624466 | 0.00 |
| 42 Acenaphthene-d10 | 337226 | 168613 | 674452 | 337226 | 0.00 |
| 59 Phenanthrene-d10 | 572849 | 286425 | 1145698 | 572849 | 0.00 |
| 69 Chrysene-d12 | 347068 | 173534 | 694136 | 347068 | 0.00 |
| 134 Di-n-octylphthala | 500317 | 250159 | 1000634 | 500317 | 0.00 |
| 77 Perylene-d12 | 421549 | 210775 | 843098 | 421549 | 0.00 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 9.30 | 8.80 | 9.80 | 9.30 | 0.00 |
| 27 Naphthalene-d8 | 11.78 | 11.28 | 12.28 | 11.78 | 0.00 |
| 42 Acenaphthene-d10 | 15.38 | 14.88 | 15.88 | 15.38 | 0.00 |
| 59 Phenanthrene-d10 | 18.42 | 17.92 | 18.92 | 18.42 | 0.00 |
| 69 Chrysene-d12 | 23.45 | 22.95 | 23.95 | 23.45 | 0.00 |
| 134 Di-n-octylphthala | 24.48 | 23.98 | 24.98 | 24.48 | 0.00 |
| 77 Perylene-d12 | 26.18 | 25.68 | 26.68 | 26.18 | 0.00 |

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

REVIEW SUMMARY FOR FILE - NT10031504.D

Lab ID: SLC0228-CAL5
nt10.i, 20230315.b\ABN.m, 15-MAR-2023 21:50

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT | CCV RRT | DELTA | COMPOUND |
|-------|---------|---------|--------------|
| 0.957 | 0.000 | 0.9575 | Benzoic acid |
| 0.532 | 0.538 | -0.0054 | Pyridine |

RRT check based on Ccal File: NT10031508.D

On Column LOD for nt10.i, 20230315.b\ABN.m, ICAL.sub = 0.0000

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

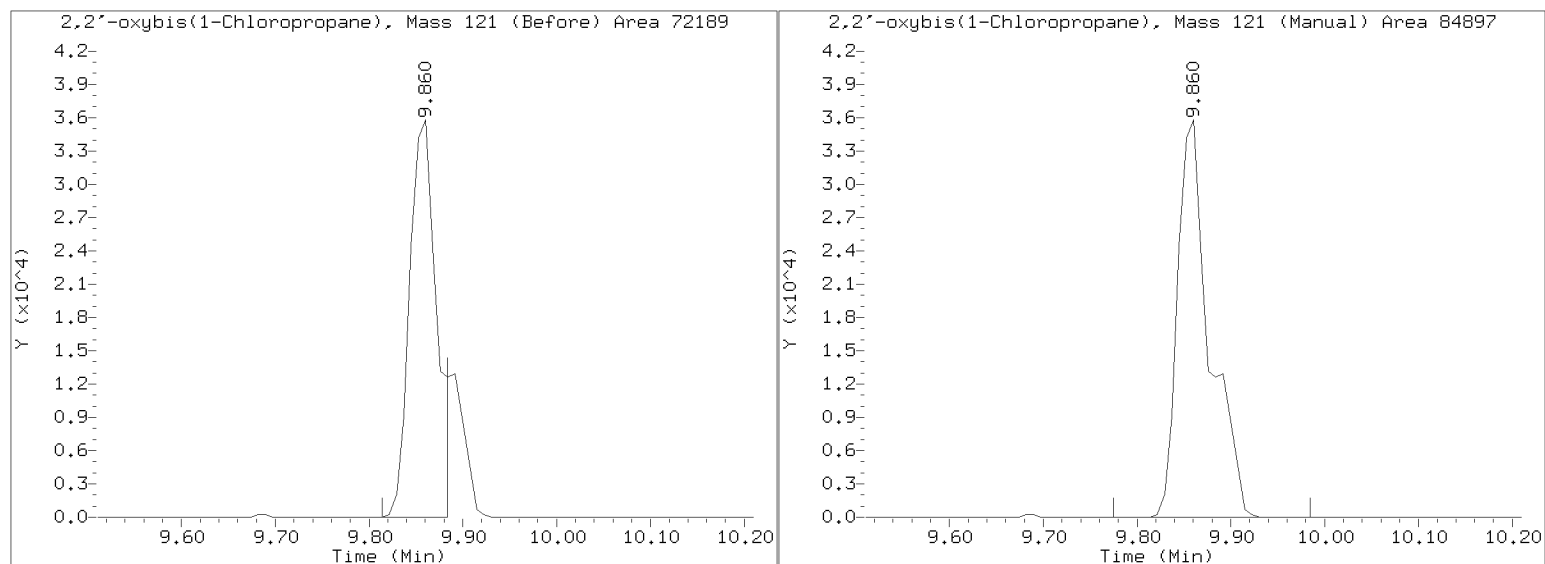
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230315.b/NT10031504.D

Injection Date: 15-MAR-2023 21:50

Lab ID: SLC0228-CAL5 Client ID:

Report Date: 03/16/2023 12:20



Data File: \\target\share\chem3\nt10.1\20230315.6\NT10031505.D

Date: 15-MAR-2023 22:28

Client ID:

Sample Info: SLC0228-CAL4

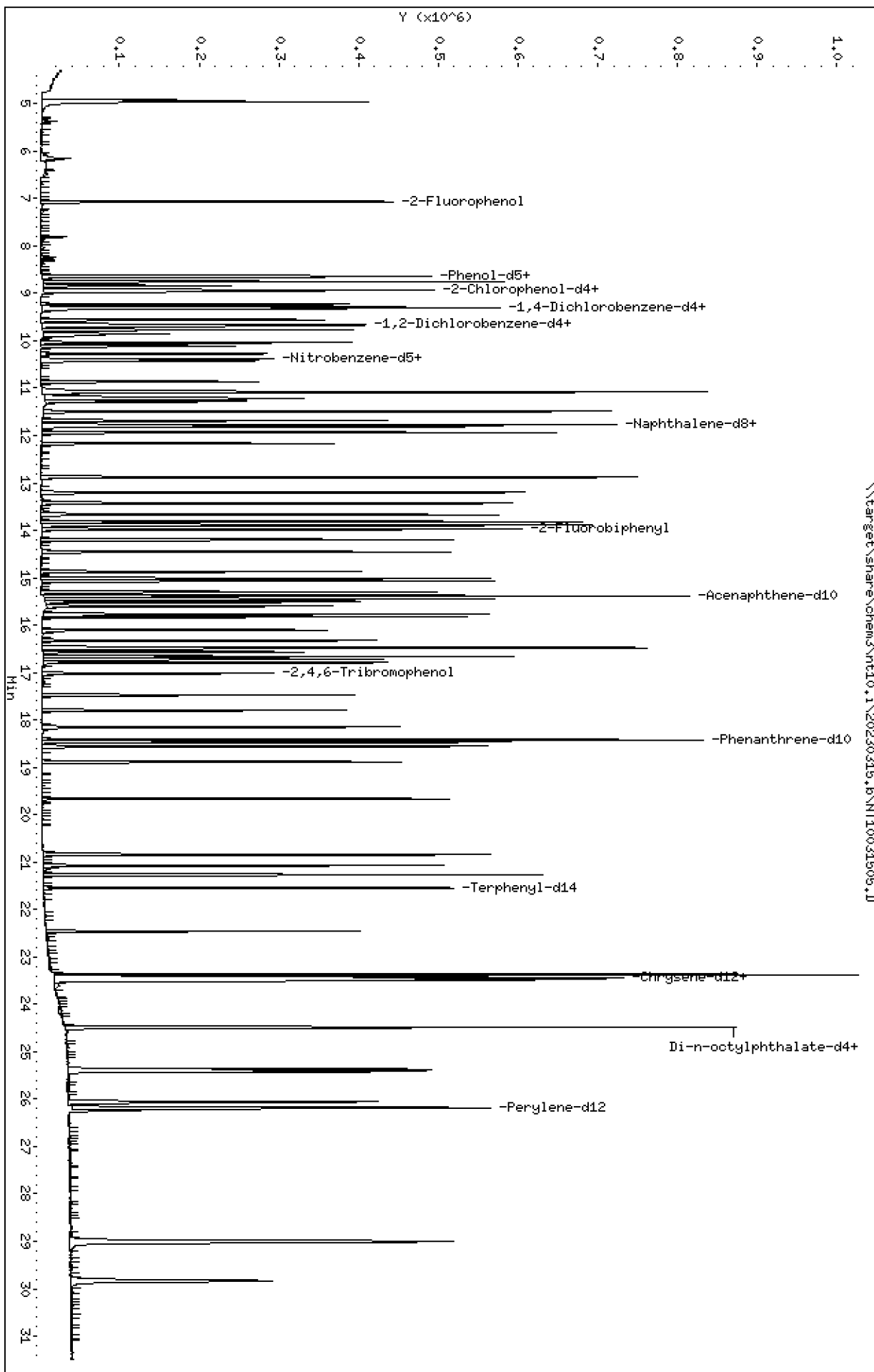
Column phase: ZB-5msi

Instrument: nt10.1

Operator: VTS

Column diameter: 0.25

\\target\share\chem3\nt10.1\20230315.6\NT10031505.D



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230315.b\NT10031505.D
 Lab Smp Id: SLC0228-CAL4
 Inj Date : 15-MAR-2023 22:28
 Operator : VTS Inst ID: nt10.i
 Smp Info : SLC0228-CAL4
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt10.i\20230315.b\ABN.m
 Meth Date : 16-Mar-2023 12:06 van Quant Type: ISTD
 Cal Date : 16-MAR-2023 00:22 Cal File: NT10031508.D
 Als bottle: 5 Calibration Sample, Level: 4
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: ICAL.sub
 Target Version: 4.14
 Processing Host: VANS-201906

| Compounds | QUANT | SIG | RT | EXP RT | REL RT | RESPONSE | AMOUNTS | |
|---------------------------------|-------|-----|--------|--------|---------|----------|---------|-----------|
| | | | | | | | CAL-AMT | ON-COL |
| | MASS | | | | | | (ug/mL) | (ug/mL) |
| \$ 1 2-Fluorophenol | 112 | | 7.068 | 7.068 | (0.760) | 193847 | 3.75000 | 4.042 |
| \$ 2 Phenol-d5 | 99 | | 8.628 | 8.636 | (0.928) | 251443 | 3.75000 | 3.997 |
| 3 Phenol | 94 | | 8.659 | 8.652 | (0.931) | 172616 | 2.50000 | 2.641 |
| \$ 5 2-Chlorophenol-d4 | 132 | | 8.930 | 8.930 | (0.960) | 211122 | 3.75000 | 3.930 |
| 4 Bis(2-Chloroethyl)ether | 93 | | 8.837 | 8.837 | (0.950) | 126678 | 2.50000 | 2.613 |
| 6 2-Chlorophenol | 128 | | 8.961 | 8.961 | (0.963) | 142338 | 2.50000 | 2.544 |
| 7 1,3-Dichlorobenzene | 146 | | 9.231 | 9.231 | (0.992) | 152662 | 2.50000 | 2.581 |
| * 8 1,4-Dichlorobenzene-d4 | 152 | | 9.301 | 9.293 | (1.000) | 158570 | 4.00000 | |
| 9 1,4-Dichlorobenzene | 146 | | 9.325 | 9.325 | (1.002) | 145660 | 2.50000 | 2.549 |
| \$ 10 1,2-Dichlorobenzene-d4 | 152 | | 9.658 | 9.658 | (1.038) | 101442 | 2.50000 | 2.630 |
| 12 1,2-Dichlorobenzene | 146 | | 9.682 | 9.682 | (1.041) | 145355 | 2.50000 | 2.585 |
| 11 Benzyl alcohol | 108 | | 9.557 | 9.557 | (1.028) | 83433 | 2.50000 | 2.719 |
| 14 2,2'-oxybis(1-Chloropropane) | 121 | | 9.860 | 9.860 | (1.060) | 41898 | 2.50000 | 2.537 (M) |
| 13 2-Methylphenol | 108 | | 9.775 | 9.767 | (1.051) | 126793 | 2.50000 | 2.661 |
| 17 Hexachloroethane | 117 | | 10.271 | 10.271 | (1.104) | 60297 | 2.50000 | 2.572 |
| 16 N-Nitroso-di-n-propylamine | 70 | | 10.116 | 10.108 | (1.088) | 99798 | 2.50000 | 2.652 |
| 15 4-Methylphenol | 108 | | 10.031 | 10.031 | (1.078) | 136212 | 2.50000 | 2.713 |
| \$ 18 Nitrobenzene-d5 | 82 | | 10.388 | 10.388 | (0.882) | 155018 | 2.50000 | 2.638 |
| 19 Nitrobenzene | 77 | | 10.419 | 10.419 | (0.885) | 150373 | 2.50000 | 2.608 |
| 20 Isophorone | 82 | | 10.861 | 10.861 | (0.922) | 188366 | 2.50000 | 2.554 |
| 21 2-Nitrophenol | 139 | | 11.048 | 11.048 | (0.938) | 67668 | 2.50000 | 2.408 |
| 22 2,4-Dimethylphenol | 107 | | 11.082 | 11.082 | (0.941) | 275973 | 5.00000 | 5.211 |
| 23 Bis(2-Chloroethoxy)methane | 93 | | 11.285 | 11.285 | (0.958) | 128878 | 2.50000 | 2.616 |
| 24 Benzoic acid | 105 | | 11.226 | 11.166 | (0.953) | 255448 | 10.0000 | 8.521 |
| 25 2,4-Dichlorophenol | 162 | | 11.489 | 11.489 | (0.975) | 248784 | 5.00000 | 5.870 |
| 26 1,2,4-Trichlorobenzene | 180 | | 11.685 | 11.685 | (0.992) | 126241 | 2.50000 | 2.538 |
| * 27 Naphthalene-d8 | 136 | | 11.778 | 11.770 | (1.000) | 582079 | 4.00000 | |
| 28 Naphthalene | 128 | | 11.816 | 11.816 | (1.003) | 394779 | 2.50000 | 2.560 |
| 29 4-Chloroaniline | 127 | | 11.940 | 11.940 | (1.014) | 311237 | 5.00000 | 5.174 |
| 30 Hexachlorobutadiene | 225 | | 12.172 | 12.172 | (1.033) | 73952 | 2.50000 | 2.537 |
| 31 4-Chloro-3-methylphenol | 107 | | 12.876 | 12.876 | (1.093) | 235798 | 5.00000 | 5.140 |
| 32 2-Methylnaphthalene | 142 | | 13.201 | 13.201 | (1.121) | 287604 | 2.50000 | 2.584 |
| 33 Hexachlorocyclopentadiene | 237 | | 13.665 | 13.665 | (0.888) | 146958 | 5.00000 | 5.177 |

| Compounds | QUANT SIG | | | | | AMOUNTS | |
|-----------------------------------|-----------|--------|--------|---------|----------|--------------------|-------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| 34 2,4,6-Trichlorophenol | 196 | 13.820 | 13.820 | (0.898) | 156867 | 5.00000 | 5.174 |
| 35 2,4,5-Trichlorophenol | 196 | 13.890 | 13.890 | (0.903) | 175400 | 5.00000 | 5.207 |
| § 36 2-Fluorobiphenyl | 172 | 13.983 | 13.975 | (0.909) | 311690 | 2.50000 | 2.569 |
| 37 2-Chloronaphthalene | 162 | 14.199 | 14.191 | (0.923) | 255513 | 2.50000 | 2.601 |
| 38 2-Nitroaniline | 65 | 14.447 | 14.447 | (0.939) | 147440 | 5.00000 | 5.343 |
| 39 Dimethylphthalate | 163 | 14.873 | 14.873 | (0.967) | 256501 | 2.50000 | 2.574 |
| 40 Acenaphthylene | 152 | 15.066 | 15.066 | (0.979) | 402926 | 2.50000 | 2.632 |
| 41 2,6-Dinitrotoluene | 165 | 15.020 | 15.012 | (0.976) | 112979 | 5.00000 | 5.249 |
| * 42 Acenaphthene-d10 | 164 | 15.383 | 15.383 | (1.000) | 306729 | 4.00000 | |
| 43 3-Nitroaniline | 138 | 15.298 | 15.298 | (0.994) | 127560 | 5.00000 | 5.250 |
| 44 Acenaphthene | 153 | 15.445 | 15.445 | (1.004) | 240853 | 2.50000 | 2.547 |
| 45 2,4-Dinitrophenol | 184 | 15.515 | 15.515 | (1.009) | 95470 | 10.0000 | 7.246 |
| 46 Dibenzofuran | 168 | 15.770 | 15.770 | (1.025) | 362747 | 2.50000 | 2.601 |
| 47 4-Nitrophenol | 109 | 15.600 | 15.592 | (1.014) | 72524 | 5.00000 | 4.760 |
| 48 2,4-Dinitrotoluene | 165 | 15.824 | 15.817 | (1.029) | 155514 | 5.00000 | 4.813 |
| 50 Diethylphthalate | 149 | 16.326 | 16.319 | (1.061) | 253004 | 2.50000 | 2.588 |
| 49 Fluorene | 166 | 16.481 | 16.481 | (1.071) | 287640 | 2.50000 | 2.622 |
| 51 4-Chlorophenyl-phenylether | 204 | 16.466 | 16.466 | (1.070) | 132439 | 2.50000 | 2.538 |
| 52 4-Nitroaniline | 138 | 16.566 | 16.566 | (1.077) | 90510 | 5.00000 | 4.134 |
| 53 4,6-Dinitro-2-methylphenol | 198 | 16.658 | 16.658 | (0.904) | 137459 | 10.0000 | 8.630 |
| 54 N-Nitrosodiphenylamine | 169 | 16.720 | 16.712 | (0.908) | 183659 | 2.50000 | 2.630 |
| § 55 2,4,6-Tribromophenol | 330 | 17.021 | 17.021 | (1.106) | 50739 | 3.75000 | 3.532 |
| 56 4-Bromophenyl-phenylether | 248 | 17.476 | 17.476 | (0.949) | 76926 | 2.50000 | 2.633 |
| 57 Hexachlorobenzene | 284 | 17.793 | 17.793 | (0.966) | 79507 | 2.50000 | 2.596 |
| 58 Pentachlorophenol | 266 | 18.149 | 18.149 | (0.985) | 82114 | 5.00000 | 4.494 |
| * 59 Phenanthrene-d10 | 188 | 18.420 | 18.420 | (1.000) | 522311 | 4.00000 | |
| 60 Phenanthrene | 178 | 18.466 | 18.466 | (1.003) | 367912 | 2.50000 | 2.583 |
| 61 Anthracene | 178 | 18.559 | 18.559 | (1.008) | 364097 | 2.50000 | 2.665 |
| 62 Carbazole | 167 | 18.884 | 18.884 | (1.025) | 320923 | 2.50000 | 2.621 |
| 63 Di-n-butylphthalate | 149 | 19.665 | 19.666 | (1.068) | 388084 | 2.50000 | 2.363 |
| 64 Fluoranthene | 202 | 20.841 | 20.841 | (0.889) | 377104 | 2.50000 | 2.634 |
| 65 Pyrene | 202 | 21.267 | 21.267 | (0.907) | 384702 | 2.50000 | 2.620 |
| § 66 Terphenyl-d14 | 244 | 21.545 | 21.538 | (0.919) | 288420 | 2.50000 | 2.615 |
| 67 Butylbenzylphthalate | 149 | 22.459 | 22.460 | (0.958) | 123600 | 2.50000 | 2.364 |
| 68 Benzo(a)anthracene | 228 | 23.419 | 23.419 | (0.999) | 330796 | 2.50000 | 2.630 |
| * 69 Chrysene-d12 | 240 | 23.450 | 23.450 | (1.000) | 356282 | 4.00000 | |
| 70 3,3'-Dichlorobenzidine | 252 | 23.373 | 23.373 | (0.997) | 311978 | 7.50000 | 7.745 |
| 71 Chrysene | 228 | 23.497 | 23.489 | (1.002) | 313344 | 2.50000 | 2.550 |
| 72 bis(2-Ethylhexyl)phthalate | 149 | 23.481 | 23.474 | (0.959) | 172996 | 2.50000 | 2.503 |
| * 134 Di-n-octylphthalate-d4 | 153 | 24.480 | 24.480 | (1.000) | 471925 | 4.00000 | |
| 73 Di-n-octylphthalate | 149 | 24.495 | 24.488 | (1.001) | 311915 | 2.50000 | 2.526 |
| 74 Benzo(b)fluoranthene | 252 | 25.370 | 25.362 | (0.969) | 353167 | 2.50000 | 2.590 (H) |
| 75 Benzo(k)fluoranthene | 252 | 25.417 | 25.409 | (0.971) | 351229 | 2.50000 | 2.536 |
| 76 Benzo(a)pyrene | 252 | 26.059 | 26.052 | (0.995) | 320887 | 2.50000 | 2.632 |
| * 77 Perylene-d12 | 264 | 26.183 | 26.183 | (1.000) | 420725 | 4.00000 | |
| 78 Indeno(1,2,3-cd)pyrene | 276 | 28.998 | 28.990 | (1.107) | 418167 | 2.50000 | 2.696 |
| 79 Dibenzo(a,h)anthracene | 278 | 29.021 | 29.005 | (1.108) | 347350 | 2.50000 | 2.697 |
| 80 Benzo(g,h,i)perylene | 276 | 29.836 | 29.821 | (1.140) | 356933 | 2.50000 | 2.659 |
| 90 N-Nitrosodimethylamine | 74 | 4.928 | 4.936 | (0.530) | 165395 | 5.00000 | 5.406 |
| 91 Aniline | 93 | 8.752 | 8.752 | (0.941) | 348101 | 5.00000 | 5.197 |
| 93 Benzidine | 184 | 21.066 | 21.066 | (0.898) | 314268 | 5.00000 | 5.344 |
| 103 Pyridine | 79 | 4.959 | 4.997 | (0.533) | 256226 | 5.00000 | 5.453 |
| 105 1-methylnaphthalene | 142 | 13.425 | 13.425 | (1.140) | 261060 | 2.50000 | 2.560 |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77 | 16.789 | 16.789 | (1.091) | 284356 | 2.50000 | 2.604 |

| Compounds | QUANT SIG | | | | | | AMOUNTS | |
|-------------------------------|-----------|--|--------|--------|---------|----------|--------------------|-------------------|
| | MASS | | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| ===== | ===== | | ===== | ===== | ===== | ===== | ===== | |
| 187 Total Benzofluoranthenes | 252 | | 25.370 | 25.409 | (0.969) | 673447 | 5.00000 | 5.114 |
| 120 2,3,4,6-Tetrachlorophenol | 232 | | 16.102 | 16.103 | (1.047) | 82842 | 2.50000 | 2.640 |

QC Flag Legend

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

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 15-MAR-2023
 Lab File ID: NT10031505.D Calibration Time: 21:50
 Lab Smp Id: SLC0228-CAL4
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt10.i\20230315.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 171542 | 85771 | 343084 | 158570 | -7.56 |
| 27 Naphthalene-d8 | 624466 | 312233 | 1248932 | 582079 | -6.79 |
| 42 Acenaphthene-d10 | 337226 | 168613 | 674452 | 306729 | -9.04 |
| 59 Phenanthrene-d10 | 572849 | 286425 | 1145698 | 522311 | -8.82 |
| 69 Chrysene-d12 | 347068 | 173534 | 694136 | 356282 | 2.65 |
| 134 Di-n-octylphthala | 500317 | 250159 | 1000634 | 471925 | -5.67 |
| 77 Perylene-d12 | 421549 | 210775 | 843098 | 420725 | -0.20 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 9.30 | 8.80 | 9.80 | 9.30 | 0.00 |
| 27 Naphthalene-d8 | 11.78 | 11.28 | 12.28 | 11.78 | 0.01 |
| 42 Acenaphthene-d10 | 15.38 | 14.88 | 15.88 | 15.38 | 0.01 |
| 59 Phenanthrene-d10 | 18.42 | 17.92 | 18.92 | 18.42 | 0.00 |
| 69 Chrysene-d12 | 23.45 | 22.95 | 23.95 | 23.45 | 0.00 |
| 134 Di-n-octylphthala | 24.48 | 23.98 | 24.98 | 24.48 | 0.00 |
| 77 Perylene-d12 | 26.18 | 25.68 | 26.68 | 26.18 | 0.00 |

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

REVIEW SUMMARY FOR FILE - NT10031505.D

Lab ID: SLC0228-CAL4
nt10.i, 20230315.b\ABN.m, 15-MAR-2023 22:28

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT | CCV RRT | DELTA | COMPOUND |
|-------|---------|--------|--------------|
| 0.953 | 0.000 | 0.9532 | Benzoic acid |

RRT check based on Ccal File: NT10031508.D

On Column LOD for nt10.i, 20230315.b\ABN.m, ICAL.sub = 0.0000

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

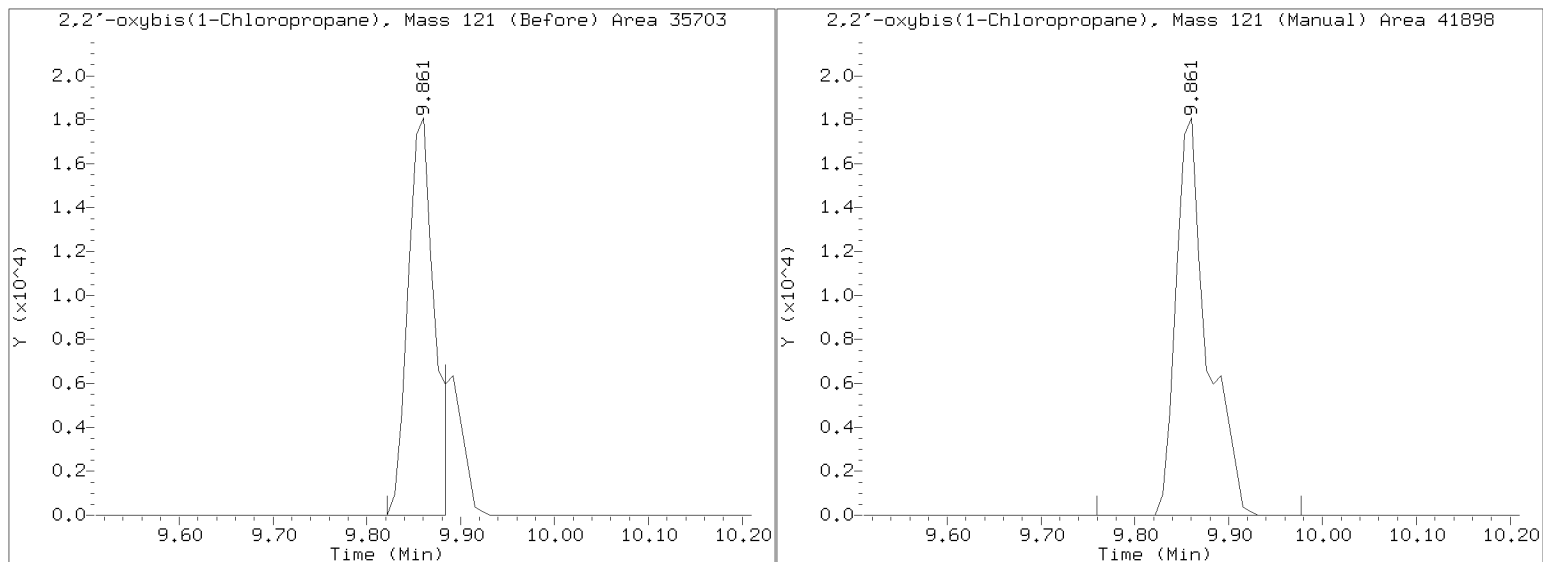
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230315.b/NT10031505.D

Injection Date: 15-MAR-2023 22:28

Lab ID:SLC0228-CAL4 Client ID:

Report Date: 03/16/2023 12:20



Data File: \\target\share\chem3\nt10.1\20230315.16\NT10031506.D

Date: 15-MAR-2023 23:06

Client ID:

Sample Info: SLC0228-CAL3

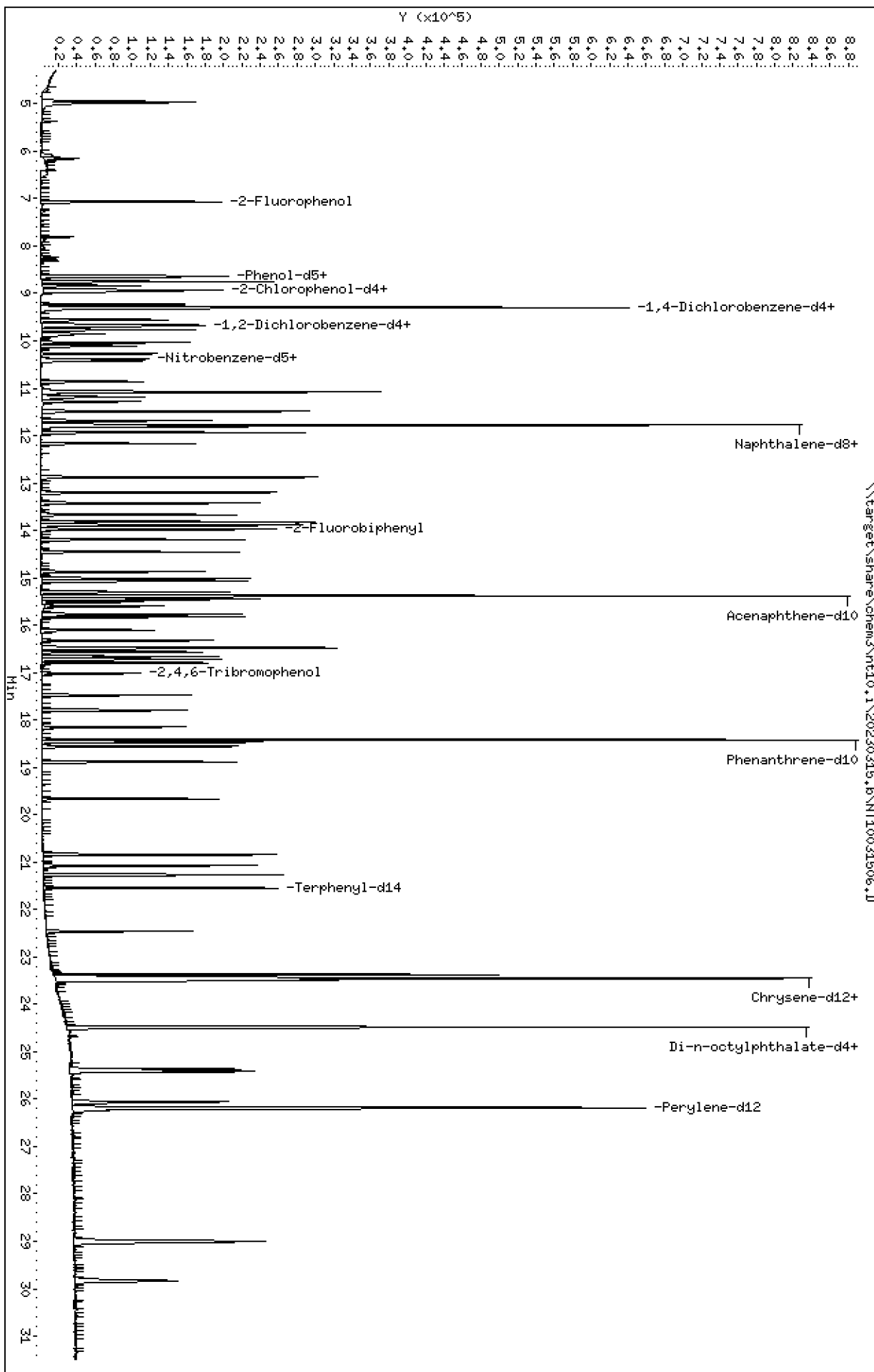
Column phase: ZB-5msi

Instrument: nt10.1

Operator: VTS

Column diameter: 0.25

Page 1



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230315.b\NT10031506.D
 Lab Smp Id: SLC0228-CAL3
 Inj Date : 15-MAR-2023 23:06
 Operator : VTS
 Smp Info : SLC0228-CAL3
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt10.i\20230315.b\ABN.m
 Meth Date : 16-Mar-2023 12:06 van
 Cal Date : 16-MAR-2023 00:22
 Als bottle: 6
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: VANS-201906

Inst ID: nt10.i
 Quant Type: ISTD
 Cal File: NT10031508.D
 Calibration Sample, Level: 3
 Compound Sublist: ICAL.sub

| Compounds | QUANT | SIG | RT | EXP RT | REL RT | RESPONSE | AMOUNTS | |
|---------------------------------|-------|-----|--------|--------|---------|----------|---------|-----------|
| | | | | | | | CAL-AMT | ON-COL |
| | MASS | | | | | | (ug/mL) | (ug/mL) |
| \$ 1 2-Fluorophenol | 112 | | 7.067 | 7.068 | (0.761) | 81829 | 1.50000 | 1.571 |
| \$ 2 Phenol-d5 | 99 | | 8.636 | 8.636 | (0.929) | 104538 | 1.50000 | 1.530 |
| 3 Phenol | 94 | | 8.651 | 8.652 | (0.931) | 74885 | 1.00000 | 1.055 |
| \$ 5 2-Chlorophenol-d4 | 132 | | 8.929 | 8.930 | (0.961) | 89430 | 1.50000 | 1.533 |
| 4 Bis(2-Chloroethyl)ether | 93 | | 8.837 | 8.837 | (0.951) | 54831 | 1.00000 | 1.041 |
| 6 2-Chlorophenol | 128 | | 8.960 | 8.961 | (0.964) | 61317 | 1.00000 | 1.009 |
| 7 1,3-Dichlorobenzene | 146 | | 9.239 | 9.231 | (0.994) | 66405 | 1.00000 | 1.033 |
| * 8 1,4-Dichlorobenzene-d4 | 152 | | 9.293 | 9.293 | (1.000) | 172257 | 4.00000 | |
| 9 1,4-Dichlorobenzene | 146 | | 9.324 | 9.325 | (1.003) | 64857 | 1.00000 | 1.045 |
| \$ 10 1,2-Dichlorobenzene-d4 | 152 | | 9.658 | 9.658 | (1.039) | 44150 | 1.00000 | 1.053 |
| 12 1,2-Dichlorobenzene | 146 | | 9.681 | 9.682 | (1.042) | 63657 | 1.00000 | 1.042 |
| 11 Benzyl alcohol | 108 | | 9.557 | 9.557 | (1.028) | 33846 | 1.00000 | 1.015 |
| 14 2,2'-oxybis(1-Chloropropane) | 121 | | 9.860 | 9.860 | (1.061) | 18563 | 1.00000 | 1.035 (M) |
| 13 2-Methylphenol | 108 | | 9.767 | 9.767 | (1.051) | 54013 | 1.00000 | 1.043 |
| 17 Hexachloroethane | 117 | | 10.271 | 10.271 | (1.105) | 25979 | 1.00000 | 1.020 |
| 16 N-Nitroso-di-n-propylamine | 70 | | 10.108 | 10.108 | (1.088) | 42146 | 1.00000 | 1.031 |
| 15 4-Methylphenol | 108 | | 10.031 | 10.031 | (1.079) | 56323 | 1.00000 | 1.033 |
| \$ 18 Nitrobenzene-d5 | 82 | | 10.388 | 10.388 | (0.882) | 64177 | 1.00000 | 1.016 |
| 19 Nitrobenzene | 77 | | 10.419 | 10.419 | (0.885) | 64368 | 1.00000 | 1.038 |
| 20 Isophorone | 82 | | 10.861 | 10.861 | (0.922) | 76637 | 1.00000 | 0.9663 |
| 21 2-Nitrophenol | 139 | | 11.047 | 11.048 | (0.938) | 24076 | 1.00000 | 0.7981 |
| 22 2,4-Dimethylphenol | 107 | | 11.081 | 11.082 | (0.941) | 117551 | 2.00000 | 2.064 |
| 23 Bis(2-Chloroethoxy)methane | 93 | | 11.284 | 11.285 | (0.958) | 55470 | 1.00000 | 1.047 |
| 24 Benzoic acid | 105 | | 11.182 | 11.166 | (0.950) | 66707 | 4.00000 | 2.100 (H) |
| 25 2,4-Dichlorophenol | 162 | | 11.488 | 11.489 | (0.975) | 91015 | 2.00000 | 1.997 |
| 26 1,2,4-Trichlorobenzene | 180 | | 11.684 | 11.685 | (0.992) | 55650 | 1.00000 | 1.040 |
| * 27 Naphthalene-d8 | 136 | | 11.777 | 11.770 | (1.000) | 625894 | 4.00000 | |
| 28 Naphthalene | 128 | | 11.815 | 11.816 | (1.003) | 168411 | 1.00000 | 1.016 |
| 29 4-Chloroaniline | 127 | | 11.939 | 11.940 | (1.014) | 131129 | 2.00000 | 2.027 |
| 30 Hexachlorobutadiene | 225 | | 12.171 | 12.172 | (1.033) | 32792 | 1.00000 | 1.046 |
| 31 4-Chloro-3-methylphenol | 107 | | 12.875 | 12.876 | (1.093) | 95632 | 2.00000 | 1.939 |
| 32 2-Methylnaphthalene | 142 | | 13.200 | 13.201 | (1.121) | 120977 | 1.00000 | 1.011 |
| 33 Hexachlorocyclopentadiene | 237 | | 13.664 | 13.665 | (0.888) | 55248 | 2.00000 | 1.804 |

| Compounds | QUANT SIG | | | | | AMOUNTS | |
|-----------------------------------|-----------|--------|--------|---------|----------|--------------------|-------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| 34 2,4,6-Trichlorophenol | 196 | 13.819 | 13.820 | (0.898) | 61689 | 2.00000 | 1.886 |
| 35 2,4,5-Trichlorophenol | 196 | 13.889 | 13.890 | (0.903) | 68648 | 2.00000 | 1.889 |
| \$ 36 2-Fluorobiphenyl | 172 | 13.981 | 13.975 | (0.909) | 133800 | 1.00000 | 1.022 |
| 37 2-Chloronaphthalene | 162 | 14.198 | 14.191 | (0.923) | 107713 | 1.00000 | 1.016 |
| 38 2-Nitroaniline | 65 | 14.454 | 14.447 | (0.940) | 56493 | 2.00000 | 1.897 |
| 39 Dimethylphthalate | 163 | 14.872 | 14.873 | (0.967) | 111361 | 1.00000 | 1.036 |
| 40 Acenaphthylene | 152 | 15.073 | 15.066 | (0.980) | 170871 | 1.00000 | 1.034 |
| 41 2,6-Dinitrotoluene | 165 | 15.019 | 15.012 | (0.976) | 44313 | 2.00000 | 1.908 |
| * 42 Acenaphthene-d10 | 164 | 15.382 | 15.383 | (1.000) | 330997 | 4.00000 | |
| 43 3-Nitroaniline | 138 | 15.297 | 15.298 | (0.994) | 50298 | 2.00000 | 1.918 |
| 44 Acenaphthene | 153 | 15.452 | 15.445 | (1.005) | 103833 | 1.00000 | 1.017 |
| 45 2,4-Dinitrophenol | 184 | 15.514 | 15.515 | (1.009) | 25006 | 4.00000 | 1.778 |
| 46 Dibenzofuran | 168 | 15.769 | 15.770 | (1.025) | 152427 | 1.00000 | 1.013 |
| 47 4-Nitrophenol | 109 | 15.599 | 15.592 | (1.014) | 26972 | 2.00000 | 1.637 |
| 48 2,4-Dinitrotoluene | 165 | 15.823 | 15.817 | (1.029) | 61485 | 2.00000 | 1.754 |
| 50 Diethylphthalate | 149 | 16.325 | 16.319 | (1.061) | 107688 | 1.00000 | 1.021 |
| 49 Fluorene | 166 | 16.488 | 16.481 | (1.072) | 122197 | 1.00000 | 1.032 |
| 51 4-Chlorophenyl-phenylether | 204 | 16.472 | 16.466 | (1.071) | 56790 | 1.00000 | 1.009 |
| 52 4-Nitroaniline | 138 | 16.565 | 16.566 | (1.077) | 46355 | 2.00000 | 1.962 |
| 53 4,6-Dinitro-2-methylphenol | 198 | 16.657 | 16.658 | (0.904) | 45458 | 4.00000 | 2.638 |
| 54 N-Nitrosodiphenylamine | 169 | 16.719 | 16.712 | (0.908) | 78992 | 1.00000 | 1.039 |
| \$ 55 2,4,6-Tribromophenol | 330 | 17.020 | 17.021 | (1.106) | 18793 | 1.50000 | 1.208 |
| 56 4-Bromophenyl-phenylether | 248 | 17.475 | 17.476 | (0.949) | 32247 | 1.00000 | 1.014 |
| 57 Hexachlorobenzene | 284 | 17.799 | 17.793 | (0.966) | 35208 | 1.00000 | 1.056 |
| 58 Pentachlorophenol | 266 | 18.148 | 18.149 | (0.985) | 28829 | 2.00000 | 1.458 |
| * 59 Phenanthrene-d10 | 188 | 18.419 | 18.420 | (1.000) | 568685 | 4.00000 | |
| 60 Phenanthrene | 178 | 18.465 | 18.466 | (1.003) | 159357 | 1.00000 | 1.028 |
| 61 Anthracene | 178 | 18.558 | 18.559 | (1.008) | 151450 | 1.00000 | 1.018 |
| 62 Carbazole | 167 | 18.883 | 18.884 | (1.025) | 141694 | 1.00000 | 1.063 |
| 63 Di-n-butylphthalate | 149 | 19.664 | 19.666 | (1.068) | 154356 | 1.00000 | 0.8619 |
| 64 Fluoranthene | 202 | 20.840 | 20.841 | (0.889) | 166676 | 1.00000 | 0.9718 |
| 65 Pyrene | 202 | 21.266 | 21.267 | (0.907) | 174023 | 1.00000 | 0.9891 |
| \$ 66 Terphenyl-d14 | 244 | 21.544 | 21.538 | (0.919) | 135363 | 1.00000 | 1.024 |
| 67 Butylbenzylphthalate | 149 | 22.458 | 22.460 | (0.958) | 51900 | 1.00000 | 0.8366 |
| 68 Benzo(a)anthracene | 228 | 23.418 | 23.419 | (0.999) | 152617 | 1.00000 | 1.013 |
| * 69 Chrysene-d12 | 240 | 23.449 | 23.450 | (1.000) | 426836 | 4.00000 | |
| 70 3,3'-Dichlorobenzidine | 252 | 23.372 | 23.373 | (0.997) | 145183 | 3.00000 | 3.008 |
| 71 Chrysene | 228 | 23.496 | 23.489 | (1.002) | 149535 | 1.00000 | 1.016 |
| 72 bis(2-Ethylhexyl)phthalate | 149 | 23.480 | 23.474 | (0.959) | 73435 | 1.00000 | 0.9036 |
| * 134 Di-n-octylphthalate-d4 | 153 | 24.479 | 24.480 | (1.000) | 555437 | 4.00000 | |
| 73 Di-n-octylphthalate | 149 | 24.487 | 24.488 | (1.000) | 146103 | 1.00000 | 1.005 |
| 74 Benzo(b)fluoranthene | 252 | 25.369 | 25.362 | (0.969) | 155706 | 1.00000 | 0.9821 (H) |
| 75 Benzo(k)fluoranthene | 252 | 25.416 | 25.409 | (0.971) | 162831 | 1.00000 | 1.011 |
| 76 Benzo(a)pyrene | 252 | 26.058 | 26.052 | (0.995) | 137233 | 1.00000 | 0.9682 |
| * 77 Perylene-d12 | 264 | 26.182 | 26.183 | (1.000) | 489106 | 4.00000 | |
| 78 Indeno(1,2,3-cd)pyrene | 276 | 29.004 | 28.990 | (1.108) | 172403 | 1.00000 | 0.9560 |
| 79 Dibenzo(a,h)anthracene | 278 | 29.012 | 29.005 | (1.108) | 143905 | 1.00000 | 0.9612 |
| 80 Benzo(g,h,i)perylene | 276 | 29.835 | 29.821 | (1.140) | 146972 | 1.00000 | 0.9417 |
| 90 N-Nitrosodimethylamine | 74 | 4.935 | 4.936 | (0.531) | 69420 | 2.00000 | 2.089 |
| 91 Aniline | 93 | 8.752 | 8.752 | (0.942) | 149023 | 2.00000 | 2.048 |
| 93 Benzidine | 184 | 21.072 | 21.066 | (0.899) | 143586 | 2.00000 | 2.038 |
| 103 Pyridine | 79 | 4.974 | 4.997 | (0.535) | 109408 | 2.00000 | 2.144 |
| 105 1-methylnaphthalene | 142 | 13.432 | 13.425 | (1.141) | 111144 | 1.00000 | 1.014 |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77 | 16.796 | 16.789 | (1.092) | 118247 | 1.00000 | 1.003 |

| Compounds | QUANT SIG | | | | | | AMOUNTS | |
|-------------------------------|-----------|--|--------|--------|---------|----------|--------------------|-------------------|
| | MASS | | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| 187 Total Benzofluoranthenes | 252 | | 25.416 | 25.409 | (0.971) | 306444 | 2.00000 | 2.002 |
| 120 2,3,4,6-Tetrachlorophenol | 232 | | 16.109 | 16.103 | (1.047) | 26430 | 1.00000 | 0.7900 |

QC Flag Legend

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

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 15-MAR-2023
 Lab File ID: NT10031506.D Calibration Time: 21:50
 Lab Smp Id: SLC0228-CAL3
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt10.i\20230315.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 171542 | 85771 | 343084 | 172257 | 0.42 |
| 27 Naphthalene-d8 | 624466 | 312233 | 1248932 | 625894 | 0.23 |
| 42 Acenaphthene-d10 | 337226 | 168613 | 674452 | 330997 | -1.85 |
| 59 Phenanthrene-d10 | 572849 | 286425 | 1145698 | 568685 | -0.73 |
| 69 Chrysene-d12 | 347068 | 173534 | 694136 | 426836 | 22.98 |
| 134 Di-n-octylphthala | 500317 | 250159 | 1000634 | 555437 | 11.02 |
| 77 Perylene-d12 | 421549 | 210775 | 843098 | 489106 | 16.03 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 9.30 | 8.80 | 9.80 | 9.29 | -0.09 |
| 27 Naphthalene-d8 | 11.78 | 11.28 | 12.28 | 11.78 | -0.00 |
| 42 Acenaphthene-d10 | 15.38 | 14.88 | 15.88 | 15.38 | -0.00 |
| 59 Phenanthrene-d10 | 18.42 | 17.92 | 18.92 | 18.42 | -0.00 |
| 69 Chrysene-d12 | 23.45 | 22.95 | 23.95 | 23.45 | -0.00 |
| 134 Di-n-octylphthala | 24.48 | 23.98 | 24.98 | 24.48 | -0.00 |
| 77 Perylene-d12 | 26.18 | 25.68 | 26.68 | 26.18 | -0.00 |

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

REVIEW SUMMARY FOR FILE - NT10031506.D

Lab ID: SLC0228-CAL3
nt10.i, 20230315.b\ABN.m, 15-MAR-2023 23:06

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT | CCV RRT | DELTA | COMPOUND |
|-------|---------|--------|--------------|
| 0.950 | 0.000 | 0.9496 | Benzoic acid |

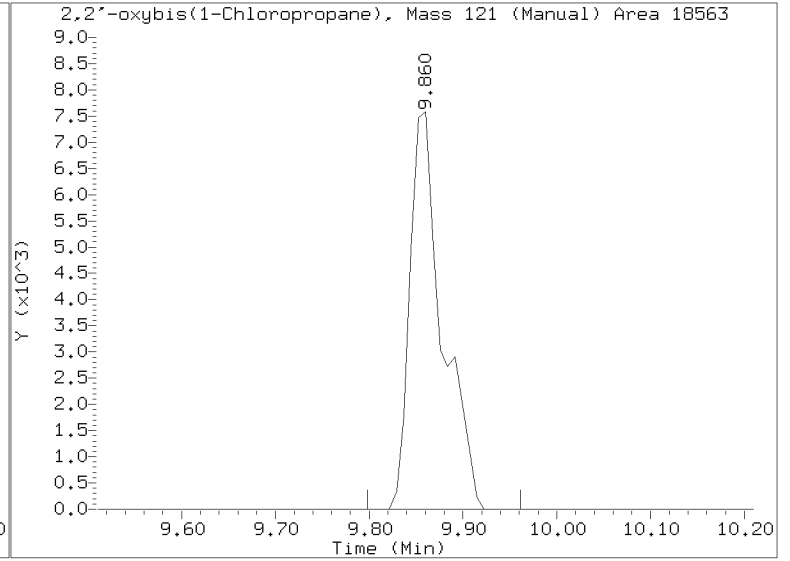
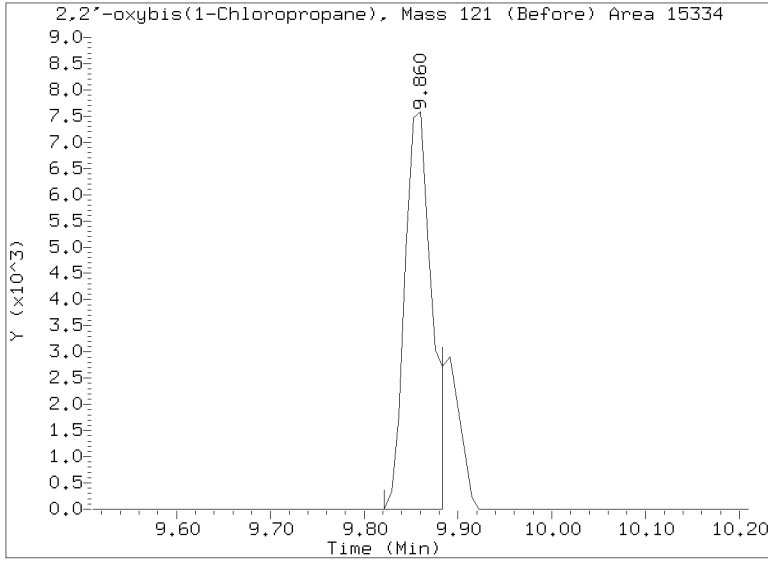
RRT check based on Ccal File: NT10031508.D

On Column LOD for nt10.i, 20230315.b\ABN.m, ICAL.sub = 0.0000

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230315.b/NT10031506.D
Injection Date: 15-MAR-2023 23:06
Lab ID: SLC0228-CAL3 Client ID:
Report Date: 03/16/2023 12:20



Data File: \\target\share\chem3\nt10.1\20230315.6\NT10031507.D

Date: 15-MAR-2023 23:44

Client ID:

Sample Info: SLC0228-CAL2

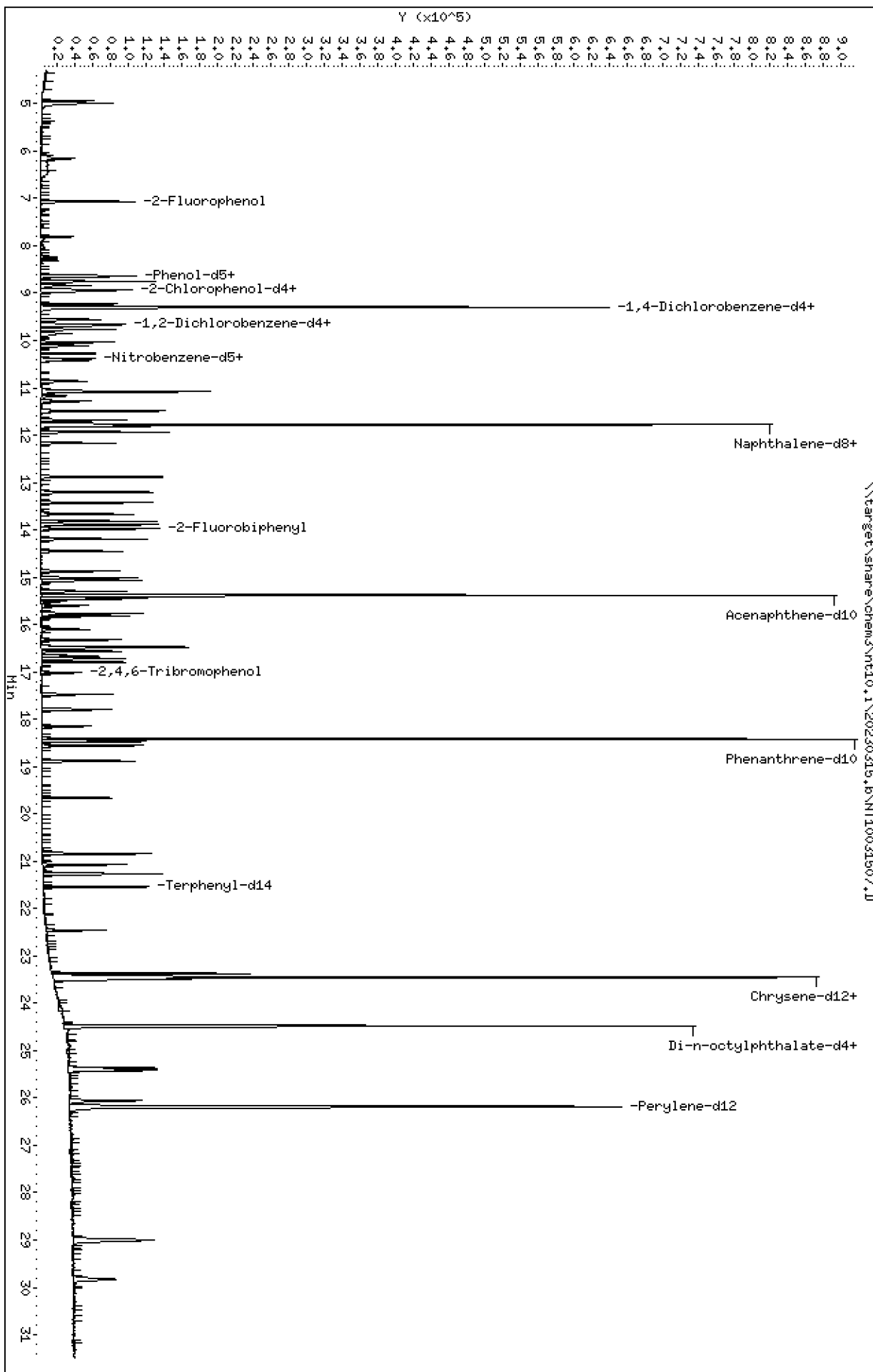
Column phase: ZB-5msi

Instrument: nt10.1

Operator: VTS

Column diameter: 0.25

Page 1



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230315.b\NT10031507.D
 Lab Smp Id: SLC0228-CAL2
 Inj Date : 15-MAR-2023 23:44
 Operator : VTS Inst ID: nt10.i
 Smp Info : SLC0228-CAL2
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt10.i\20230315.b\ABN.m
 Meth Date : 16-Mar-2023 12:06 van Quant Type: ISTD
 Cal Date : 16-MAR-2023 00:22 Cal File: NT10031508.D
 Als bottle: 7 Calibration Sample, Level: 2
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: ICAL.sub
 Target Version: 4.14
 Processing Host: VANS-201906

| Compounds | QUANT | SIG | RT | EXP RT | REL RT | RESPONSE | AMOUNTS | |
|---------------------------------|-------|-----|--------|--------|---------|----------|---------|-------------|
| | | | | | | | CAL-AMT | ON-COL |
| | MASS | | | | | | (ug/mL) | (ug/mL) |
| \$ 1 2-Fluorophenol | 112 | | 7.068 | 7.068 | (0.760) | 41713 | 0.75000 | 0.7823 |
| \$ 2 Phenol-d5 | 99 | | 8.636 | 8.636 | (0.928) | 52580 | 0.75000 | 0.7517 |
| 3 Phenol | 94 | | 8.659 | 8.652 | (0.931) | 38448 | 0.50000 | 0.5289 |
| \$ 5 2-Chlorophenol-d4 | 132 | | 8.930 | 8.930 | (0.960) | 44808 | 0.75000 | 0.7501 |
| 4 Bis(2-Chloroethyl)ether | 93 | | 8.837 | 8.837 | (0.950) | 27479 | 0.50000 | 0.5097 |
| 6 2-Chlorophenol | 128 | | 8.960 | 8.961 | (0.963) | 31239 | 0.50000 | 0.5021 |
| 7 1,3-Dichlorobenzene | 146 | | 9.231 | 9.231 | (0.992) | 35392 | 0.50000 | 0.5381 |
| * 8 1,4-Dichlorobenzene-d4 | 152 | | 9.301 | 9.293 | (1.000) | 176328 | 4.00000 | |
| 9 1,4-Dichlorobenzene | 146 | | 9.332 | 9.325 | (1.003) | 32578 | 0.50000 | 0.5127 |
| \$ 10 1,2-Dichlorobenzene-d4 | 152 | | 9.658 | 9.658 | (1.038) | 21602 | 0.50000 | 0.5036 |
| 12 1,2-Dichlorobenzene | 146 | | 9.681 | 9.682 | (1.041) | 32678 | 0.50000 | 0.5226 |
| 11 Benzyl alcohol | 108 | | 9.557 | 9.557 | (1.028) | 16132 | 0.50000 | 0.4728 |
| 14 2,2'-oxybis(1-Chloropropane) | 121 | | 9.852 | 9.860 | (1.059) | 9403 | 0.50000 | 0.5120 (M) |
| 13 2-Methylphenol | 108 | | 9.767 | 9.767 | (1.050) | 26839 | 0.50000 | 0.5065 |
| 17 Hexachloroethane | 117 | | 10.271 | 10.271 | (1.104) | 13005 | 0.50000 | 0.4989 |
| 16 N-Nitroso-di-n-propylamine | 70 | | 10.116 | 10.108 | (1.088) | 20902 | 0.50000 | 0.4996 |
| 15 4-Methylphenol | 108 | | 10.031 | 10.031 | (1.078) | 27419 | 0.50000 | 0.4911 |
| \$ 18 Nitrobenzene-d5 | 82 | | 10.388 | 10.388 | (0.882) | 31837 | 0.50000 | 0.4937 |
| 19 Nitrobenzene | 77 | | 10.419 | 10.419 | (0.885) | 32321 | 0.50000 | 0.5108 |
| 20 Isophorone | 82 | | 10.861 | 10.861 | (0.922) | 37232 | 0.50000 | 0.4599 |
| 21 2-Nitrophenol | 139 | | 11.047 | 11.048 | (0.938) | 10858 | 0.50000 | 0.3528 |
| 22 2,4-Dimethylphenol | 107 | | 11.081 | 11.082 | (0.941) | 60037 | 1.00000 | 1.033 |
| 23 Bis(2-Chloroethoxy)methane | 93 | | 11.284 | 11.285 | (0.958) | 28288 | 0.50000 | 0.5231 |
| 24 Benzoic acid | 105 | | 11.166 | 11.166 | (0.948) | 22417 | 2.00000 | 0.6937 (MH) |
| 25 2,4-Dichlorophenol | 162 | | 11.488 | 11.489 | (0.975) | 44450 | 1.00000 | 0.9557 |
| 26 1,2,4-Trichlorobenzene | 180 | | 11.684 | 11.685 | (0.992) | 28877 | 0.50000 | 0.5289 |
| * 27 Naphthalene-d8 | 136 | | 11.777 | 11.770 | (1.000) | 638835 | 4.00000 | |
| 28 Naphthalene | 128 | | 11.815 | 11.816 | (1.003) | 87181 | 0.50000 | 0.5151 |
| 29 4-Chloroaniline | 127 | | 11.939 | 11.940 | (1.014) | 66172 | 1.00000 | 1.002 |
| 30 Hexachlorobutadiene | 225 | | 12.171 | 12.172 | (1.033) | 16273 | 0.50000 | 0.5087 |
| 31 4-Chloro-3-methylphenol | 107 | | 12.883 | 12.876 | (1.094) | 47168 | 1.00000 | 0.9368 |
| 32 2-Methylnaphthalene | 142 | | 13.208 | 13.201 | (1.122) | 61248 | 0.50000 | 0.5015 |
| 33 Hexachlorocyclopentadiene | 237 | | 13.672 | 13.665 | (0.889) | 26827 | 1.00000 | 0.8689 |

| Compounds | QUANT SIG | | | | | AMOUNTS | |
|-----------------------------------|-----------|--------|--------|---------|----------|--------------------|-------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| 34 2,4,6-Trichlorophenol | 196 | 13.819 | 13.820 | (0.898) | 28405 | 1.00000 | 0.8614 |
| 35 2,4,5-Trichlorophenol | 196 | 13.889 | 13.890 | (0.903) | 32893 | 1.00000 | 0.8978 |
| § 36 2-Fluorobiphenyl | 172 | 13.982 | 13.975 | (0.909) | 68004 | 0.50000 | 0.5153 |
| 37 2-Chloronaphthalene | 162 | 14.198 | 14.191 | (0.923) | 55073 | 0.50000 | 0.5154 |
| 38 2-Nitroaniline | 65 | 14.446 | 14.447 | (0.939) | 26440 | 1.00000 | 0.8809 |
| 39 Dimethylphthalate | 163 | 14.879 | 14.873 | (0.967) | 57101 | 0.50000 | 0.5269 |
| 40 Acenaphthylene | 152 | 15.065 | 15.066 | (0.979) | 86568 | 0.50000 | 0.5199 |
| 41 2,6-Dinitrotoluene | 165 | 15.019 | 15.012 | (0.976) | 20170 | 1.00000 | 0.8615 |
| * 42 Acenaphthene-d10 | 164 | 15.382 | 15.383 | (1.000) | 333617 | 4.00000 | |
| 43 3-Nitroaniline | 138 | 15.297 | 15.298 | (0.994) | 23424 | 1.00000 | 0.8864 |
| 44 Acenaphthene | 153 | 15.452 | 15.445 | (1.005) | 52615 | 0.50000 | 0.5115 |
| 45 2,4-Dinitrophenol | 184 | 15.514 | 15.515 | (1.009) | 6815 | 2.00000 | 0.4819 |
| 46 Dibenzofuran | 168 | 15.769 | 15.770 | (1.025) | 78914 | 0.50000 | 0.5202 |
| 47 4-Nitrophenol | 109 | 15.599 | 15.592 | (1.014) | 10811 | 1.00000 | 0.6506 |
| 48 2,4-Dinitrotoluene | 165 | 15.823 | 15.817 | (1.029) | 27229 | 1.00000 | 0.7695 |
| 50 Diethylphthalate | 149 | 16.326 | 16.319 | (1.061) | 52123 | 0.50000 | 0.4902 |
| 49 Fluorene | 166 | 16.488 | 16.481 | (1.072) | 60511 | 0.50000 | 0.5070 |
| 51 4-Chlorophenyl-phenylether | 204 | 16.472 | 16.466 | (1.071) | 28771 | 0.50000 | 0.5070 |
| 52 4-Nitroaniline | 138 | 16.565 | 16.566 | (1.077) | 22911 | 1.00000 | 0.9621 |
| 53 4,6-Dinitro-2-methylphenol | 198 | 16.665 | 16.658 | (0.905) | 16474 | 2.00000 | 0.9166 |
| 54 N-Nitrosodiphenylamine | 169 | 16.719 | 16.712 | (0.908) | 40999 | 0.50000 | 0.5160 |
| § 55 2,4,6-Tribromophenol | 330 | 17.020 | 17.021 | (1.106) | 8451 | 0.75000 | 0.5386 |
| 56 4-Bromophenyl-phenylether | 248 | 17.475 | 17.476 | (0.949) | 15854 | 0.50000 | 0.4770 |
| 57 Hexachlorobenzene | 284 | 17.792 | 17.793 | (0.966) | 17123 | 0.50000 | 0.4914 |
| 58 Pentachlorophenol | 266 | 18.148 | 18.149 | (0.985) | 11460 | 1.00000 | 0.5555 |
| * 59 Phenanthrene-d10 | 188 | 18.419 | 18.420 | (1.000) | 594262 | 4.00000 | |
| 60 Phenanthrene | 178 | 18.465 | 18.466 | (1.003) | 82180 | 0.50000 | 0.5072 |
| 61 Anthracene | 178 | 18.558 | 18.559 | (1.008) | 75192 | 0.50000 | 0.4837 |
| 62 Carbazole | 167 | 18.883 | 18.884 | (1.025) | 70986 | 0.50000 | 0.5096 |
| 63 Di-n-butylphthalate | 149 | 19.664 | 19.666 | (1.068) | 69653 | 0.50000 | 0.3720 |
| 64 Fluoranthene | 202 | 20.840 | 20.841 | (0.889) | 81400 | 0.50000 | 0.4730 |
| 65 Pyrene | 202 | 21.266 | 21.267 | (0.907) | 86158 | 0.50000 | 0.4881 |
| § 66 Terphenyl-d14 | 244 | 21.545 | 21.538 | (0.919) | 66564 | 0.50000 | 0.5021 |
| 67 Butylbenzylphthalate | 149 | 22.458 | 22.460 | (0.958) | 23199 | 0.50000 | 0.3738 |
| 68 Benzo(a)anthracene | 228 | 23.426 | 23.419 | (0.999) | 76435 | 0.50000 | 0.5056 |
| * 69 Chrysene-d12 | 240 | 23.449 | 23.450 | (1.000) | 428263 | 4.00000 | |
| 70 3,3'-Dichlorobenzidine | 252 | 23.372 | 23.373 | (0.997) | 66937 | 1.50000 | 1.382 |
| 71 Chrysene | 228 | 23.496 | 23.489 | (1.002) | 76545 | 0.50000 | 0.5183 |
| 72 bis(2-Ethylhexyl)phthalate | 149 | 23.480 | 23.474 | (0.959) | 29596 | 0.50000 | 0.3811 |
| * 134 Di-n-octylphthalate-d4 | 153 | 24.479 | 24.480 | (1.000) | 530893 | 4.00000 | |
| 73 Di-n-octylphthalate | 149 | 24.487 | 24.488 | (1.000) | 70499 | 0.50000 | 0.5074 |
| 74 Benzo(b)fluoranthene | 252 | 25.369 | 25.362 | (0.969) | 77837 | 0.50000 | 0.5012 (H) |
| 75 Benzo(k)fluoranthene | 252 | 25.408 | 25.409 | (0.970) | 76548 | 0.50000 | 0.4854 |
| 76 Benzo(a)pyrene | 252 | 26.059 | 26.052 | (0.995) | 65959 | 0.50000 | 0.4750 |
| * 77 Perylene-d12 | 264 | 26.182 | 26.183 | (1.000) | 479116 | 4.00000 | |
| 78 Indeno(1,2,3-cd)pyrene | 276 | 28.997 | 28.990 | (1.107) | 79229 | 0.50000 | 0.4485 |
| 79 Dibenzo(a,h)anthracene | 278 | 29.012 | 29.005 | (1.108) | 66422 | 0.50000 | 0.4529 |
| 80 Benzo(g,h,i)perylene | 276 | 29.828 | 29.821 | (1.139) | 67819 | 0.50000 | 0.4436 |
| 90 N-Nitrosodimethylamine | 74 | 4.936 | 4.936 | (0.531) | 37892 | 1.00000 | 1.114 |
| 91 Aniline | 93 | 8.752 | 8.752 | (0.941) | 78232 | 1.00000 | 1.050 |
| 93 Benzidine | 184 | 21.073 | 21.066 | (0.899) | 63059 | 1.00000 | 0.8921 |
| 103 Pyridine | 79 | 4.982 | 4.997 | (0.536) | 58765 | 1.00000 | 1.125 |
| 105 1-methylnaphthalene | 142 | 13.424 | 13.425 | (1.140) | 56774 | 0.50000 | 0.5074 |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77 | 16.796 | 16.789 | (1.092) | 61206 | 0.50000 | 0.5153 |

| Compounds | QUANT SIG | | | | | | AMOUNTS | |
|-------------------------------|-----------|--|--------|--------|---------|----------|--------------------|-------------------|
| | MASS | | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| ===== | ===== | | ===== | ===== | ===== | ===== | ===== | ===== |
| 187 Total Benzofluoranthenes | 252 | | 25.408 | 25.409 | (0.970) | 149145 | 1.00000 | 0.9946 |
| 120 2,3,4,6-Tetrachlorophenol | 232 | | 16.101 | 16.103 | (1.047) | 11604 | 0.50000 | 0.3451 |

QC Flag Legend

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

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 15-MAR-2023
 Lab File ID: NT10031507.D Calibration Time: 21:50
 Lab Smp Id: SLC0228-CAL2
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt10.i\20230315.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 171542 | 85771 | 343084 | 176328 | 2.79 |
| 27 Naphthalene-d8 | 624466 | 312233 | 1248932 | 638835 | 2.30 |
| 42 Acenaphthene-d10 | 337226 | 168613 | 674452 | 333617 | -1.07 |
| 59 Phenanthrene-d10 | 572849 | 286425 | 1145698 | 594262 | 3.74 |
| 69 Chrysene-d12 | 347068 | 173534 | 694136 | 428263 | 23.39 |
| 134 Di-n-octylphthala | 500317 | 250159 | 1000634 | 530893 | 6.11 |
| 77 Perylene-d12 | 421549 | 210775 | 843098 | 479116 | 13.66 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 9.30 | 8.80 | 9.80 | 9.30 | 0.00 |
| 27 Naphthalene-d8 | 11.78 | 11.28 | 12.28 | 11.78 | 0.00 |
| 42 Acenaphthene-d10 | 15.38 | 14.88 | 15.88 | 15.38 | 0.00 |
| 59 Phenanthrene-d10 | 18.42 | 17.92 | 18.92 | 18.42 | 0.00 |
| 69 Chrysene-d12 | 23.45 | 22.95 | 23.95 | 23.45 | 0.00 |
| 134 Di-n-octylphthala | 24.48 | 23.98 | 24.98 | 24.48 | 0.00 |
| 77 Perylene-d12 | 26.18 | 25.68 | 26.68 | 26.18 | 0.00 |

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

REVIEW SUMMARY FOR FILE - NT10031507.D

Lab ID: SLC0228-CAL2
nt10.i, 20230315.b\ABN.m, 15-MAR-2023 23:44

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT | CCV RRT | DELTA | COMPOUND |
|-------|---------|--------|--------------|
| 0.948 | 0.000 | 0.9481 | Benzoic acid |

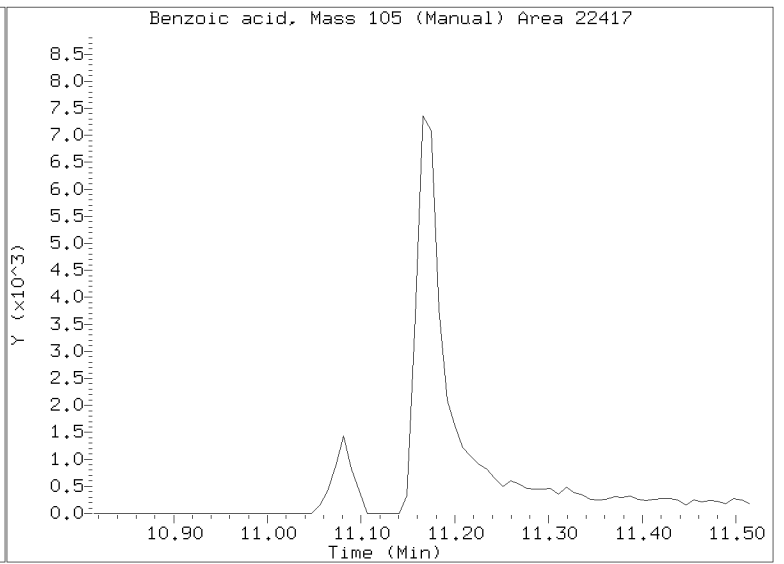
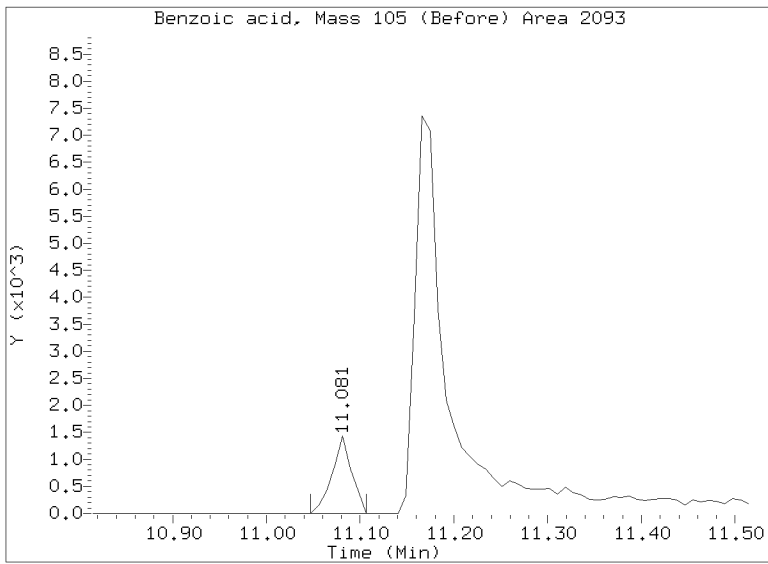
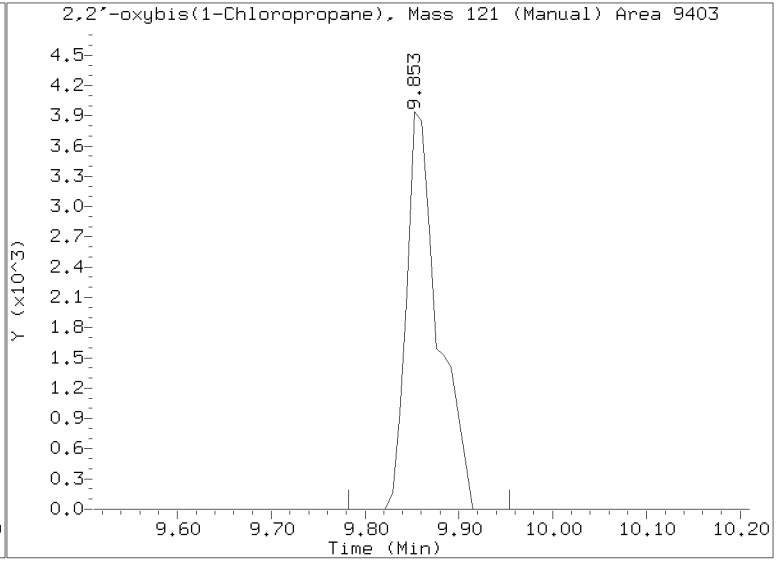
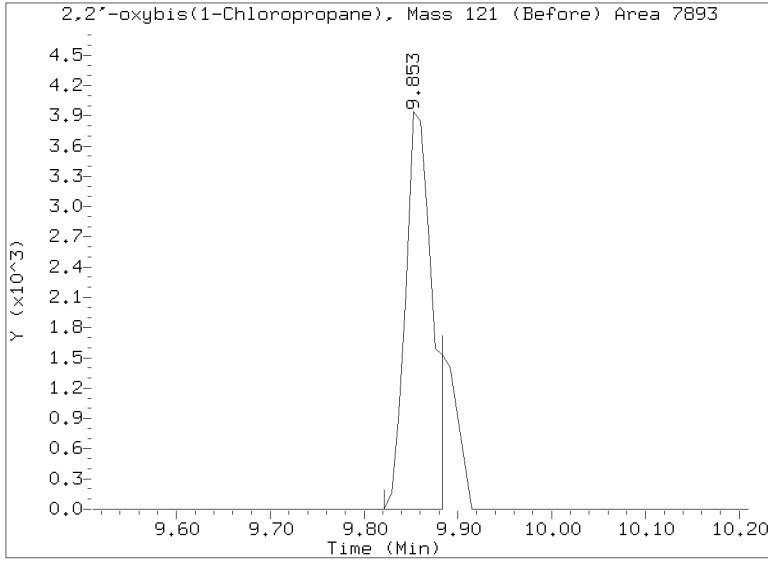
RRT check based on Ccal File: NT10031508.D

On Column LOD for nt10.i, 20230315.b\ABN.m, ICAL.sub = 0.0000

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230315.b/NT10031507.D
Injection Date: 15-MAR-2023 23:44
Lab ID:SLC0228-CAL2 Client ID:
Report Date: 03/16/2023 12:20



Data File: \\target\share\chem3\nt10.1\20230315.6\NT10031508.D

Date: 16-MAR-2023 00:22

Client ID:

Sample Info: SLC0228-CAL1

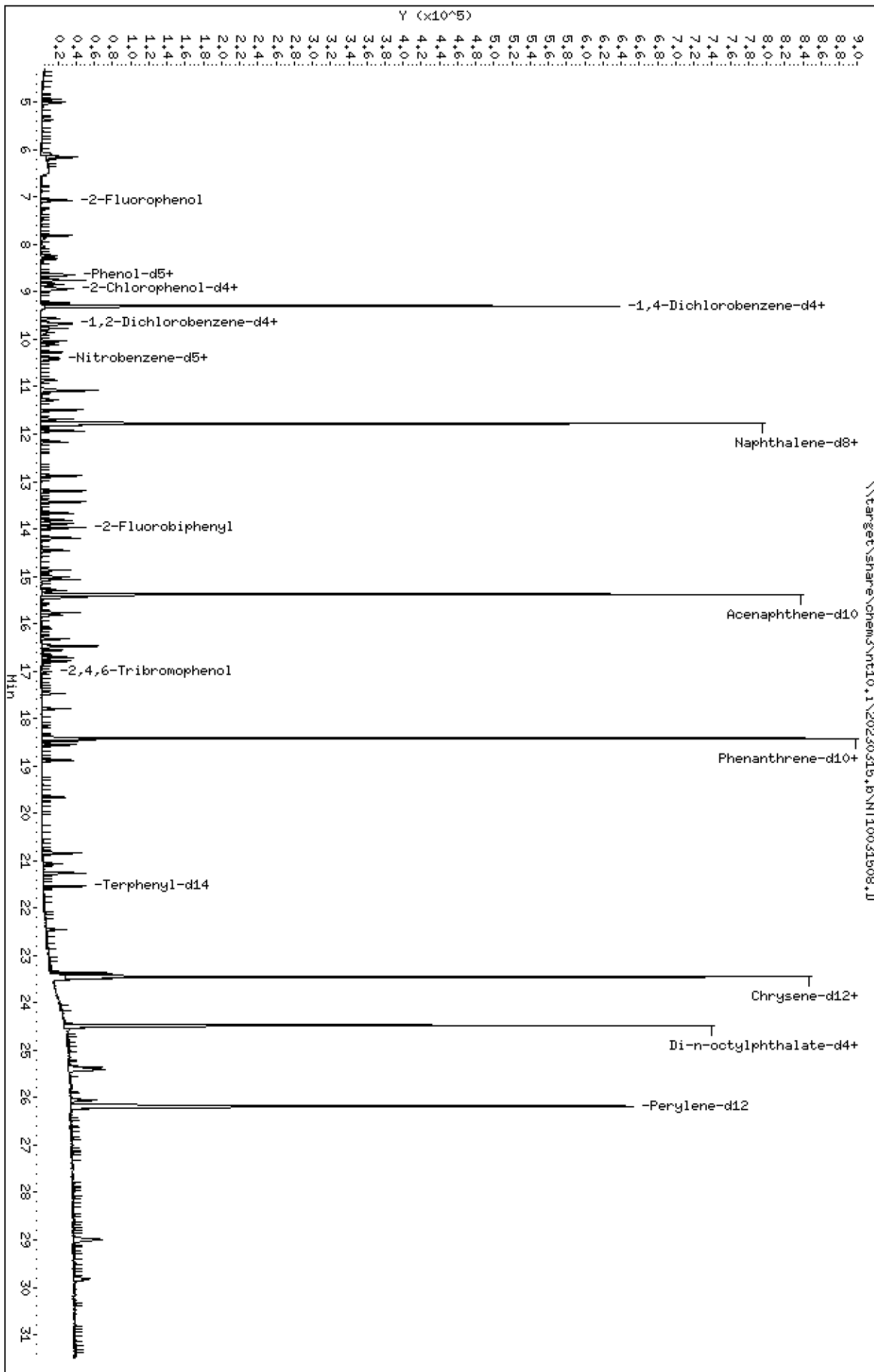
Column phase: ZB-5msi

Instrument: nt10.1

Operator: VTS

Column diameter: 0.25

Page 1



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230315.b\NT10031508.D
 Lab Smp Id: SLC0228-CAL1
 Inj Date : 16-MAR-2023 00:22
 Operator : VTS Inst ID: nt10.i
 Smp Info : SLC0228-CAL1
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt10.i\20230315.b\ABN.m
 Meth Date : 16-Mar-2023 12:06 van Quant Type: ISTD
 Cal Date : 16-MAR-2023 00:22 Cal File: NT10031508.D
 Als bottle: 8 Calibration Sample, Level: 1
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: ICAL.sub
 Target Version: 4.14
 Processing Host: VANS-201906

| Compounds | QUANT | SIG | RT | EXP RT | REL RT | RESPONSE | AMOUNTS | |
|---------------------------------|-------|-----|------------------------|--------|---------|----------|---------|------------|
| | | | | | | | CAL-AMT | ON-COL |
| | MASS | | | | | | (ug/mL) | (ug/mL) |
| \$ 1 2-Fluorophenol | 112 | | 7.068 | 7.068 | (0.761) | 15217 | 0.30000 | 0.2902 |
| \$ 2 Phenol-d5 | 99 | | 8.636 | 8.636 | (0.929) | 19316 | 0.30000 | 0.2808 |
| 3 Phenol | 94 | | 8.652 | 8.652 | (0.931) | 14062 | 0.20000 | 0.1967 |
| \$ 5 2-Chlorophenol-d4 | 132 | | 8.930 | 8.930 | (0.961) | 16402 | 0.30000 | 0.2792 |
| 4 Bis(2-Chloroethyl)ether | 93 | | 8.837 | 8.837 | (0.951) | 11069 | 0.20000 | 0.2088 |
| 6 2-Chlorophenol | 128 | | 8.961 | 8.961 | (0.964) | 11429 | 0.20000 | 0.1868 |
| 7 1,3-Dichlorobenzene | 146 | | 9.231 | 9.231 | (0.993) | 13532 | 0.20000 | 0.2092 |
| * 8 1,4-Dichlorobenzene-d4 | 152 | | 9.293 | 9.293 | (1.000) | 173382 | 4.00000 | |
| 9 1,4-Dichlorobenzene | 146 | | 9.325 | 9.325 | (1.003) | 12851 | 0.20000 | 0.2057 |
| \$ 10 1,2-Dichlorobenzene-d4 | 152 | | 9.658 | 9.658 | (1.039) | 8167 | 0.20000 | 0.1936 (M) |
| 12 1,2-Dichlorobenzene | 146 | | 9.682 | 9.682 | (1.042) | 12650 | 0.20000 | 0.2057 |
| 11 Benzyl alcohol | 108 | | 9.557 | 9.557 | (1.028) | 5351 | 0.20000 | 0.1595 |
| 14 2,2'-oxybis(1-Chloropropane) | 121 | | 9.860 | 9.860 | (1.061) | 3773 | 0.20000 | 0.2090 (M) |
| 13 2-Methylphenol | 108 | | 9.767 | 9.767 | (1.051) | 9529 | 0.20000 | 0.1829 |
| 17 Hexachloroethane | 117 | | 10.271 | 10.271 | (1.105) | 5030 | 0.20000 | 0.1962 |
| 16 N-Nitroso-di-n-propylamine | 70 | | 10.108 | 10.108 | (1.088) | 7690 | 0.20000 | 0.1869 |
| 15 4-Methylphenol | 108 | | 10.031 | 10.031 | (1.079) | 9916 | 0.20000 | 0.1806 |
| \$ 18 Nitrobenzene-d5 | 82 | | 10.388 | 10.388 | (0.883) | 11367 | 0.20000 | 0.1808 |
| 19 Nitrobenzene | 77 | | 10.419 | 10.419 | (0.885) | 11856 | 0.20000 | 0.1922 |
| 20 Isophorone | 82 | | 10.861 | 10.861 | (0.923) | 13500 | 0.20000 | 0.1711 |
| 21 2-Nitrophenol | 139 | | 11.048 | 11.048 | (0.939) | 3314 | 0.20000 | 0.1105 |
| 22 2,4-Dimethylphenol | 107 | | 11.082 | 11.082 | (0.942) | 21781 | 0.40000 | 0.3844 |
| 23 Bis(2-Chloroethoxy)methane | 93 | | 11.285 | 11.285 | (0.959) | 10633 | 0.20000 | 0.2017 |
| 24 Benzoic acid | 105 | | Compound Not Detected. | | | | | |
| 25 2,4-Dichlorophenol | 162 | | 11.489 | 11.489 | (0.976) | 14498 | 0.40000 | 0.3198 |
| 26 1,2,4-Trichlorobenzene | 180 | | 11.685 | 11.685 | (0.993) | 11312 | 0.20000 | 0.2125 |
| * 27 Naphthalene-d8 | 136 | | 11.770 | 11.770 | (1.000) | 622719 | 4.00000 | |
| 28 Naphthalene | 128 | | 11.816 | 11.816 | (1.004) | 34693 | 0.20000 | 0.2103 |
| 29 4-Chloroaniline | 127 | | 11.940 | 11.940 | (1.014) | 23161 | 0.40000 | 0.3599 |
| 30 Hexachlorobutadiene | 225 | | 12.172 | 12.172 | (1.034) | 6358 | 0.20000 | 0.2039 |
| 31 4-Chloro-3-methylphenol | 107 | | 12.876 | 12.876 | (1.094) | 15112 | 0.40000 | 0.3079 |
| 32 2-Methylnaphthalene | 142 | | 13.201 | 13.201 | (1.122) | 23564 | 0.20000 | 0.1979 |
| 33 Hexachlorocyclopentadiene | 237 | | 13.665 | 13.665 | (0.888) | 8871 | 0.40000 | 0.2963 |

| Compounds | QUANT SIG | | | | | AMOUNTS | |
|-----------------------------------|-----------|--------|--------|---------|----------|--------------------|-------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| 34 2,4,6-Trichlorophenol | 196 | 13.820 | 13.820 | (0.898) | 8113 | 0.40000 | 0.2538 |
| 35 2,4,5-Trichlorophenol | 196 | 13.890 | 13.890 | (0.903) | 10952 | 0.40000 | 0.3083 |
| § 36 2-Fluorobiphenyl | 172 | 13.975 | 13.975 | (0.908) | 26256 | 0.20000 | 0.2052 |
| 37 2-Chloronaphthalene | 162 | 14.191 | 14.191 | (0.923) | 21320 | 0.20000 | 0.2058 |
| 38 2-Nitroaniline | 65 | 14.447 | 14.447 | (0.939) | 7997 | 0.40000 | 0.2748 |
| 39 Dimethylphthalate | 163 | 14.873 | 14.873 | (0.967) | 21402 | 0.20000 | 0.2037 |
| 40 Acenaphthylene | 152 | 15.066 | 15.066 | (0.979) | 30956 | 0.20000 | 0.1918 |
| 41 2,6-Dinitrotoluene | 165 | 15.012 | 15.012 | (0.976) | 6371 | 0.40000 | 0.2807 |
| * 42 Acenaphthene-d10 | 164 | 15.383 | 15.383 | (1.000) | 323444 | 4.00000 | |
| 43 3-Nitroaniline | 138 | 15.298 | 15.298 | (0.994) | 6696 | 0.40000 | 0.2614 |
| 44 Acenaphthene | 153 | 15.445 | 15.445 | (1.004) | 20741 | 0.20000 | 0.2080 |
| 45 2,4-Dinitrophenol | 184 | 15.515 | 15.515 | (1.009) | 447 | 0.80000 | 0.03263 |
| 46 Dibenzofuran | 168 | 15.770 | 15.770 | (1.025) | 29705 | 0.20000 | 0.2020 |
| 47 4-Nitrophenol | 109 | 15.592 | 15.592 | (1.014) | 2336 | 0.40000 | 0.1450 |
| 48 2,4-Dinitrotoluene | 165 | 15.816 | 15.817 | (1.028) | 7302 | 0.40000 | 0.2127 |
| 50 Diethylphthalate | 149 | 16.319 | 16.319 | (1.061) | 19430 | 0.20000 | 0.1885 |
| 49 Fluorene | 166 | 16.481 | 16.481 | (1.071) | 22739 | 0.20000 | 0.1965 |
| 51 4-Chlorophenyl-phenylether | 204 | 16.466 | 16.466 | (1.070) | 11288 | 0.20000 | 0.2052 |
| 52 4-Nitroaniline | 138 | 16.566 | 16.566 | (1.077) | 6775 | 0.40000 | 0.2934 |
| 53 4,6-Dinitro-2-methylphenol | 198 | 16.658 | 16.658 | (0.904) | 3116 | 0.80000 | 0.1772 |
| 54 N-Nitrosodiphenylamine | 169 | 16.712 | 16.712 | (0.907) | 15391 | 0.20000 | 0.1978 |
| § 55 2,4,6-Tribromophenol | 330 | 17.021 | 17.021 | (1.106) | 2409 | 0.30000 | 0.1583 |
| 56 4-Bromophenyl-phenylether | 248 | 17.476 | 17.476 | (0.949) | 5757 | 0.20000 | 0.1768 |
| 57 Hexachlorobenzene | 284 | 17.793 | 17.793 | (0.966) | 7271 | 0.20000 | 0.2130 |
| 58 Pentachlorophenol | 266 | 18.149 | 18.149 | (0.985) | 2441 | 0.40000 | 0.1209 |
| * 59 Phenanthrene-d10 | 188 | 18.420 | 18.420 | (1.000) | 582036 | 4.00000 | |
| 60 Phenanthrene | 178 | 18.466 | 18.466 | (1.003) | 32949 | 0.20000 | 0.2076 |
| 61 Anthracene | 178 | 18.559 | 18.559 | (1.008) | 27813 | 0.20000 | 0.1827 |
| 62 Carbazole | 167 | 18.884 | 18.884 | (1.025) | 25881 | 0.20000 | 0.1897 |
| 63 Di-n-butylphthalate | 149 | 19.665 | 19.666 | (1.068) | 22443 | 0.20000 | 0.1223 |
| 64 Fluoranthene | 202 | 20.841 | 20.841 | (0.889) | 30231 | 0.20000 | 0.1696 |
| 65 Pyrene | 202 | 21.267 | 21.267 | (0.907) | 32288 | 0.20000 | 0.1766 |
| § 66 Terphenyl-d14 | 244 | 21.538 | 21.538 | (0.918) | 26268 | 0.20000 | 0.1913 |
| 67 Butylbenzylphthalate | 149 | 22.459 | 22.460 | (0.958) | 7408 | 0.20000 | 0.1154 |
| 68 Benzo(a)anthracene | 228 | 23.419 | 23.419 | (0.999) | 30301 | 0.20000 | 0.1936 |
| * 69 Chrysene-d12 | 240 | 23.450 | 23.450 | (1.000) | 443504 | 4.00000 | |
| 70 3,3'-Dichlorobenzidine | 252 | 23.373 | 23.373 | (0.997) | 21879 | 0.60000 | 0.4363 |
| 71 Chrysene | 228 | 23.489 | 23.489 | (1.002) | 30146 | 0.20000 | 0.1971 |
| 72 bis(2-Ethylhexyl)phthalate | 149 | 23.473 | 23.474 | (0.959) | 9248 | 0.20000 | 0.1169 |
| * 134 Di-n-octylphthalate-d4 | 153 | 24.480 | 24.480 | (1.000) | 540769 | 4.00000 | |
| 73 Di-n-octylphthalate | 149 | 24.488 | 24.488 | (1.000) | 30690 | 0.20000 | 0.2169 |
| 74 Benzo(b)fluoranthene | 252 | 25.362 | 25.362 | (0.969) | 28924 | 0.20000 | 0.1818 (H) |
| 75 Benzo(k)fluoranthene | 252 | 25.409 | 25.409 | (0.970) | 32537 | 0.20000 | 0.2014 |
| 76 Benzo(a)pyrene | 252 | 26.052 | 26.052 | (0.995) | 24358 | 0.20000 | 0.1713 |
| * 77 Perylene-d12 | 264 | 26.183 | 26.183 | (1.000) | 490725 | 4.00000 | |
| 78 Indeno(1,2,3-cd)pyrene | 276 | 28.990 | 28.990 | (1.107) | 27518 | 0.20000 | 0.1521 |
| 79 Dibenzo(a,h)anthracene | 278 | 29.005 | 29.005 | (1.108) | 22711 | 0.20000 | 0.1512 |
| 80 Benzo(g,h,i)perylene | 276 | 29.821 | 29.821 | (1.139) | 24036 | 0.20000 | 0.1535 |
| 90 N-Nitrosodimethylamine | 74 | 4.936 | 4.936 | (0.531) | 13409 | 0.40000 | 0.4009 |
| 91 Aniline | 93 | 8.752 | 8.752 | (0.942) | 29775 | 0.40000 | 0.4065 |
| 93 Benzidine | 184 | 21.066 | 21.066 | (0.898) | 16630 | 0.40000 | 0.2272 |
| 103 Pyridine | 79 | 4.997 | 4.997 | (0.538) | 19539 | 0.40000 | 0.3803 |
| 105 1-methylnaphthalene | 142 | 13.425 | 13.425 | (1.141) | 21820 | 0.20000 | 0.2000 |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77 | 16.789 | 16.789 | (1.091) | 22091 | 0.20000 | 0.1918 |

| Compounds | QUANT SIG | | | | | | AMOUNTS | |
|-------------------------------|-----------|--|--------|--------|---------|----------|--------------------|-------------------|
| | MASS | | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| 187 Total Benzofluoranthenes | 252 | | 25.409 | 25.409 | (0.970) | 58677 | 0.40000 | 0.3820 |
| 120 2,3,4,6-Tetrachlorophenol | 232 | | 16.102 | 16.103 | (1.047) | 3113 | 0.20000 | 0.09564 |

QC Flag Legend

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

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 15-MAR-2023
 Lab File ID: NT10031508.D Calibration Time: 21:50
 Lab Smp Id: SLC0228-CAL1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt10.i\20230315.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 171542 | 85771 | 343084 | 173382 | 1.07 |
| 27 Naphthalene-d8 | 624466 | 312233 | 1248932 | 622719 | -0.28 |
| 42 Acenaphthene-d10 | 337226 | 168613 | 674452 | 323444 | -4.09 |
| 59 Phenanthrene-d10 | 572849 | 286425 | 1145698 | 582036 | 1.60 |
| 69 Chrysene-d12 | 347068 | 173534 | 694136 | 443504 | 27.79 |
| 134 Di-n-octylphthala | 500317 | 250159 | 1000634 | 540769 | 8.09 |
| 77 Perylene-d12 | 421549 | 210775 | 843098 | 490725 | 16.41 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 9.30 | 8.80 | 9.80 | 9.29 | -0.08 |
| 27 Naphthalene-d8 | 11.78 | 11.28 | 12.28 | 11.77 | -0.06 |
| 42 Acenaphthene-d10 | 15.38 | 14.88 | 15.88 | 15.38 | 0.01 |
| 59 Phenanthrene-d10 | 18.42 | 17.92 | 18.92 | 18.42 | 0.00 |
| 69 Chrysene-d12 | 23.45 | 22.95 | 23.95 | 23.45 | 0.00 |
| 134 Di-n-octylphthala | 24.48 | 23.98 | 24.98 | 24.48 | 0.00 |
| 77 Perylene-d12 | 26.18 | 25.68 | 26.68 | 26.18 | 0.00 |

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

REVIEW SUMMARY FOR FILE - NT10031508.D

Lab ID: SLC0228-CAL1
nt10.i, 20230315.b\ABN.m, 16-MAR-2023 00:22

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

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

NONE

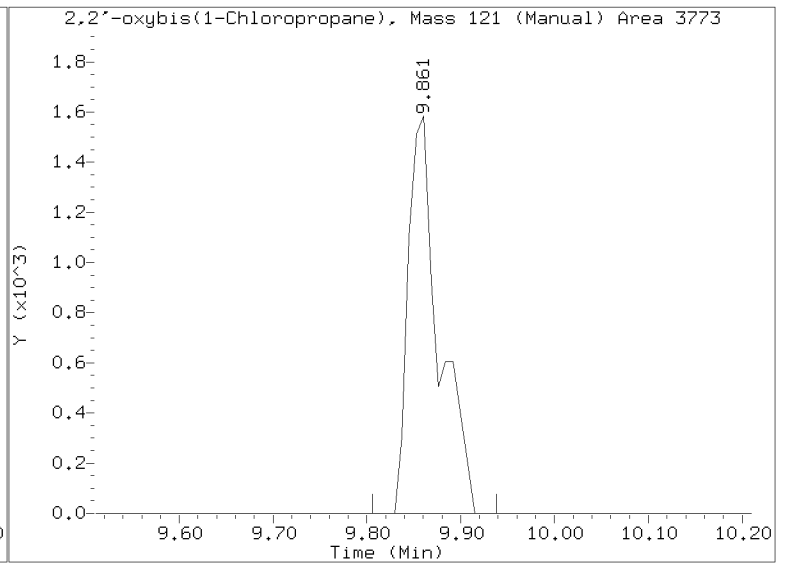
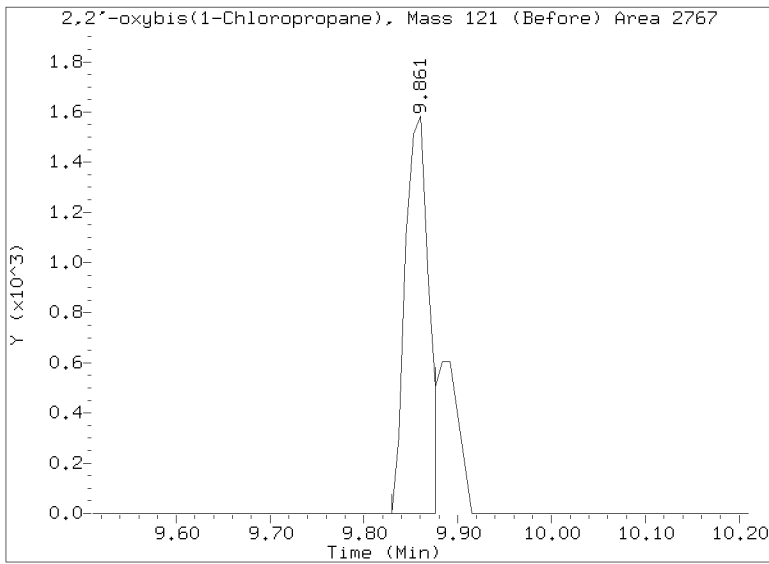
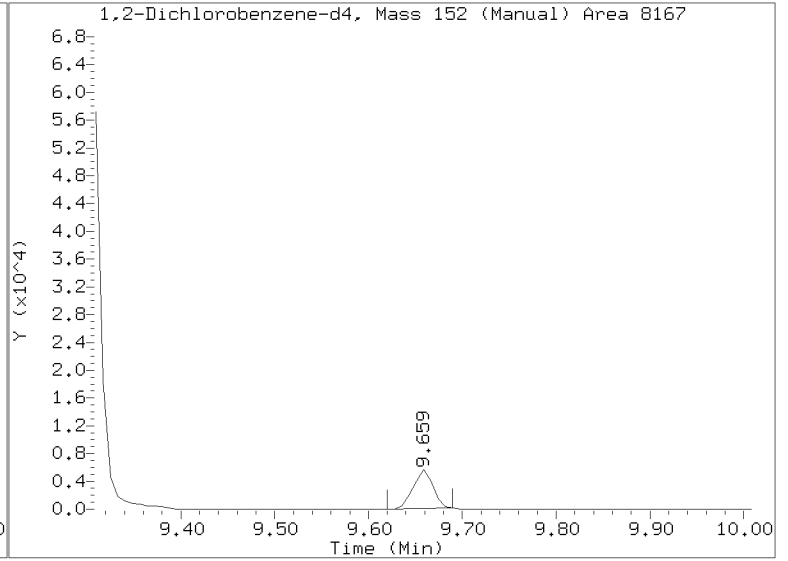
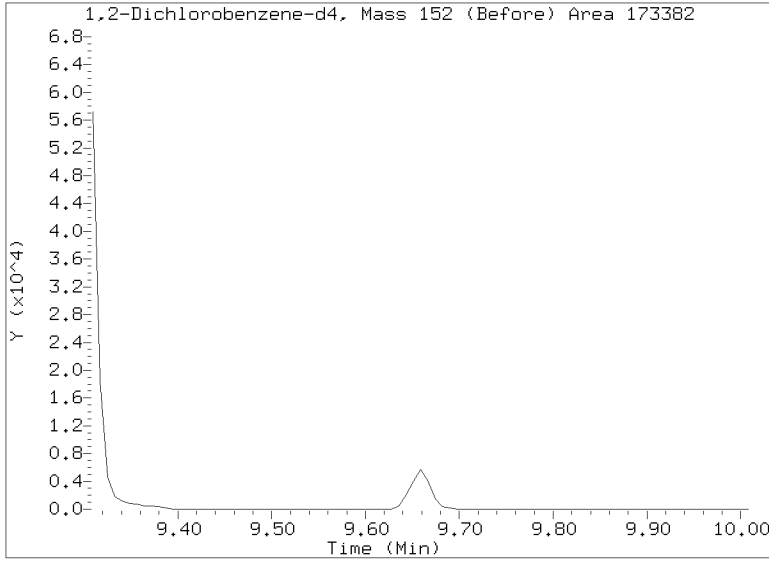
RRT check based on Ccal File: NT10031508.D

On Column LOD for nt10.i, 20230315.b\ABN.m, ICAL.sub = 0.0000

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

Quant Ion Manual Peak Adjustment Report

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Injection Date: 16-MAR-2023 00:22
Lab ID:SLC0228-CAL1 Client ID:
Report Date: 03/16/2023 12:20



Data File: \\target\share\chem3\nt10.1\20230315.6\NT10031511.D

Date: 16-MAR-2023 02:16

Client ID:

Sample Info: SLC0228-SCV1

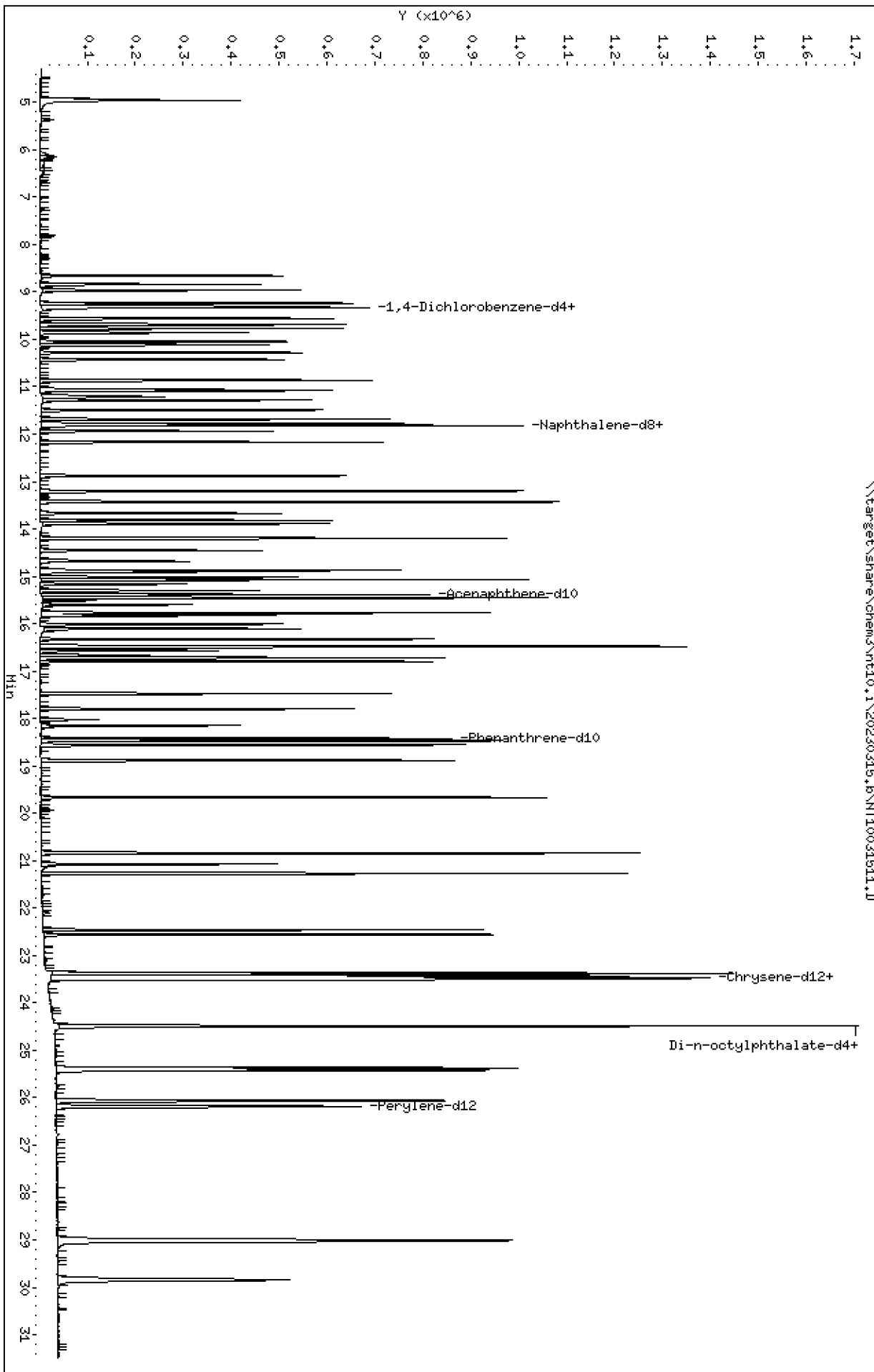
Column phase: ZB-5msi

Instrument: nt10.1

Operator: VTS

Column diameter: 0.25

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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

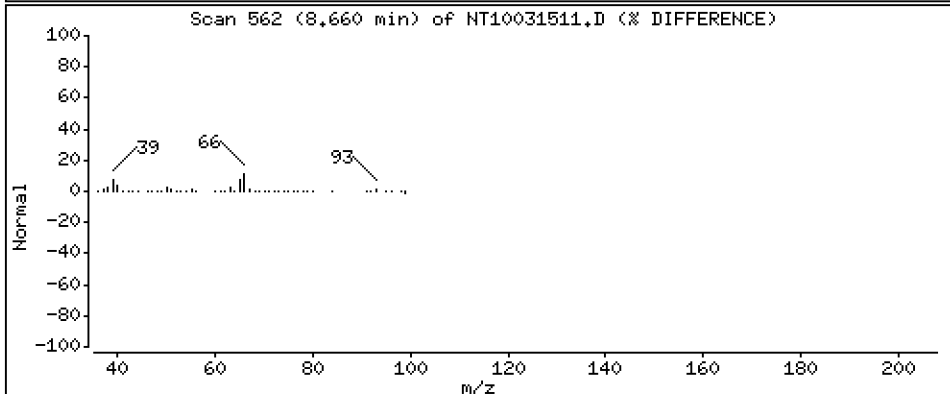
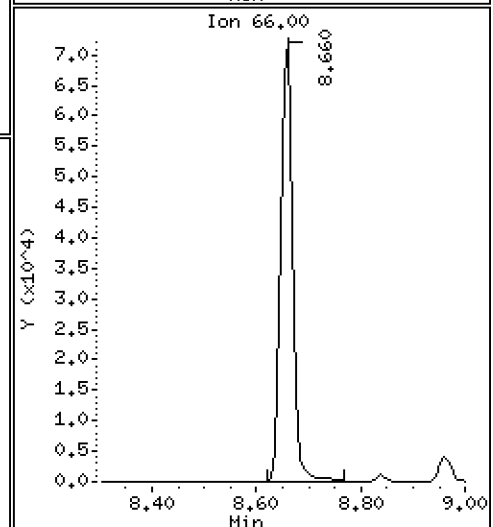
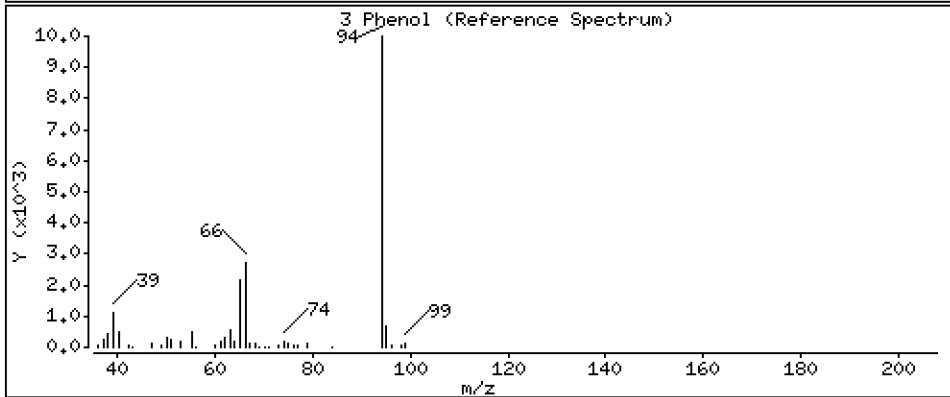
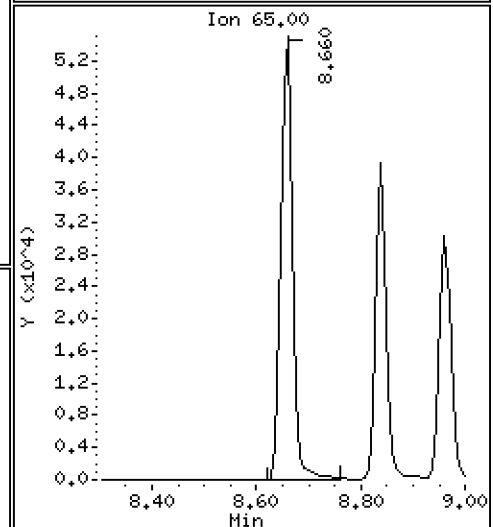
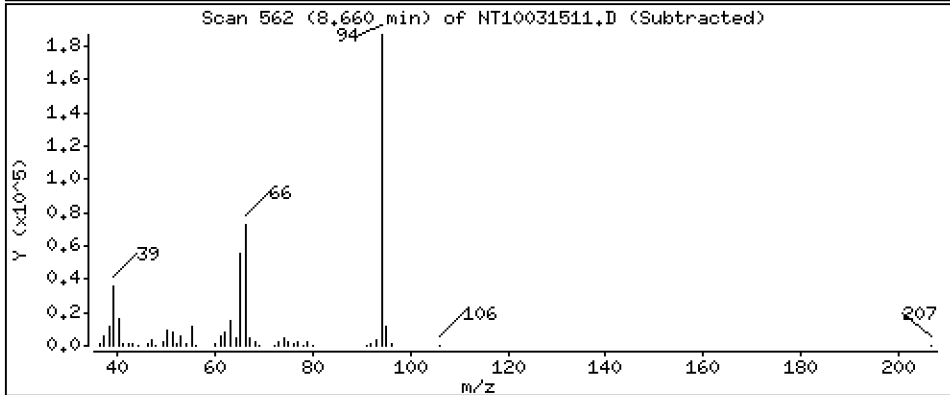
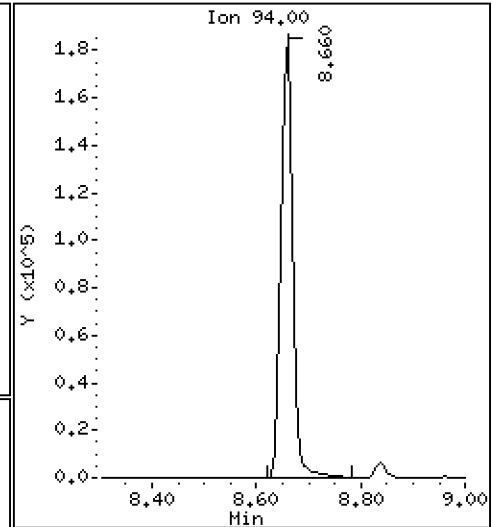
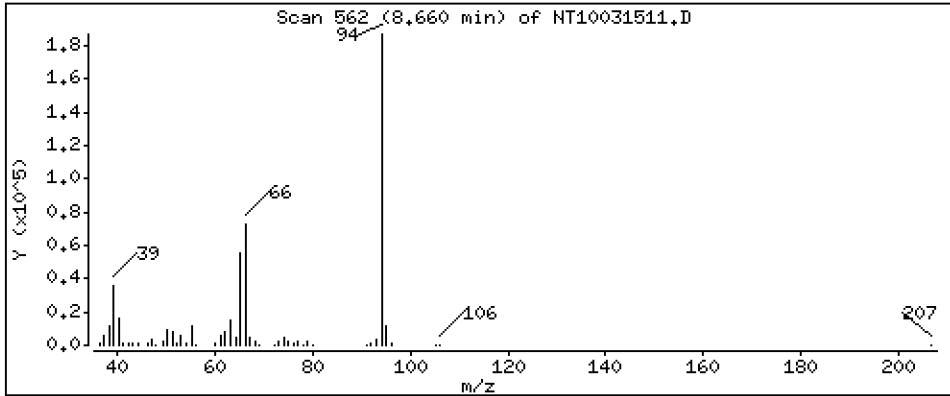
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 4,412 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

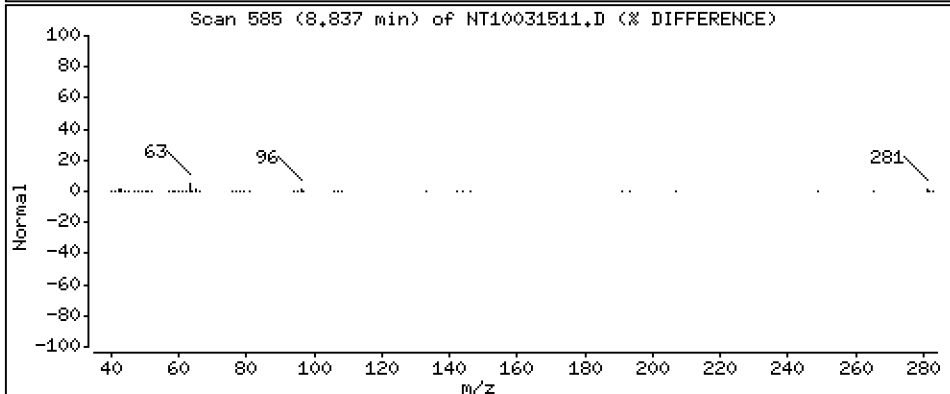
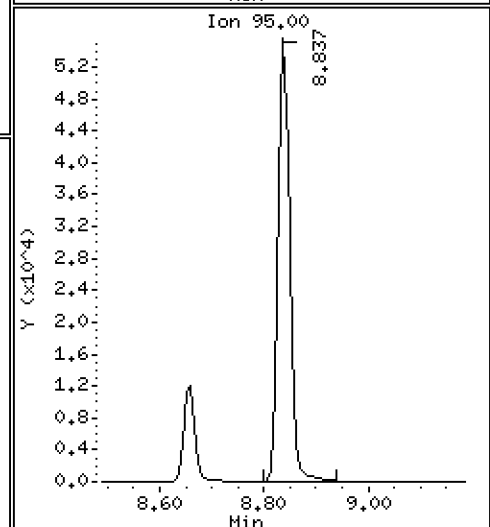
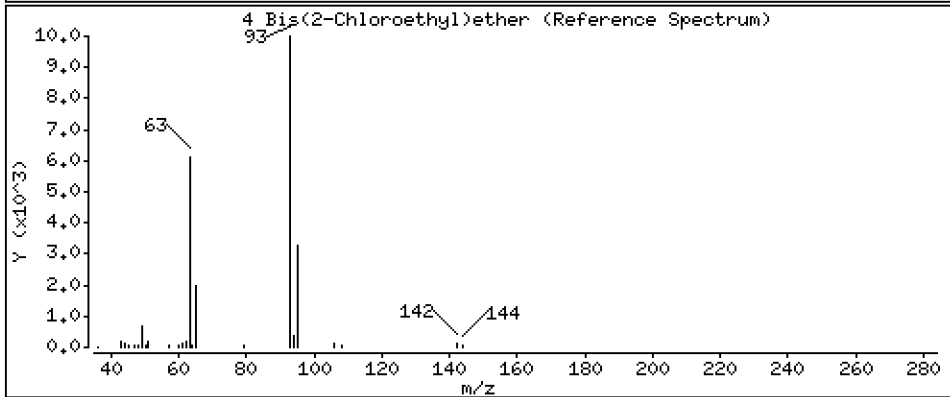
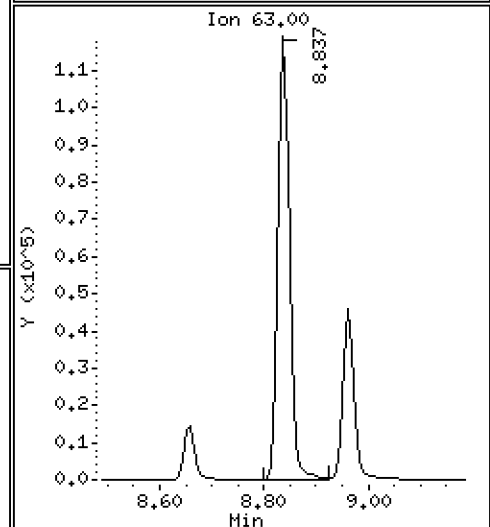
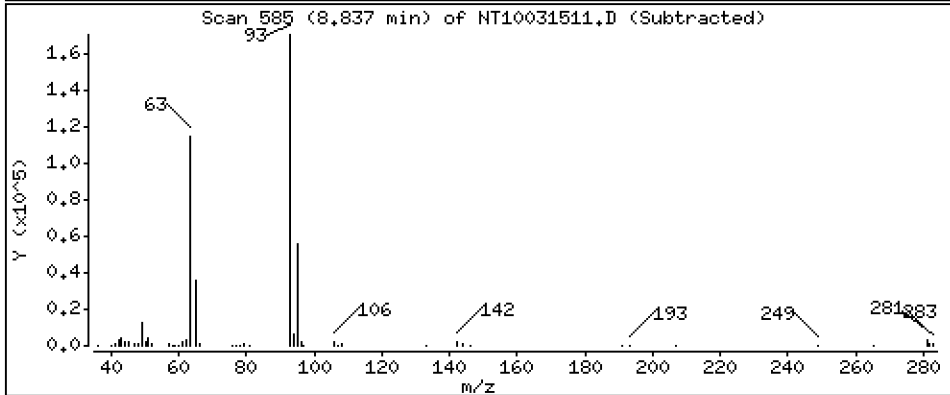
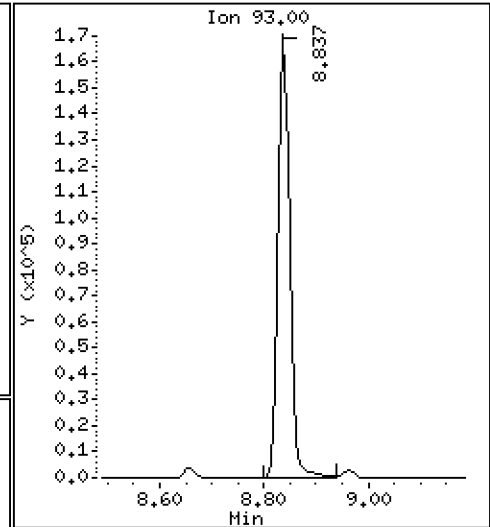
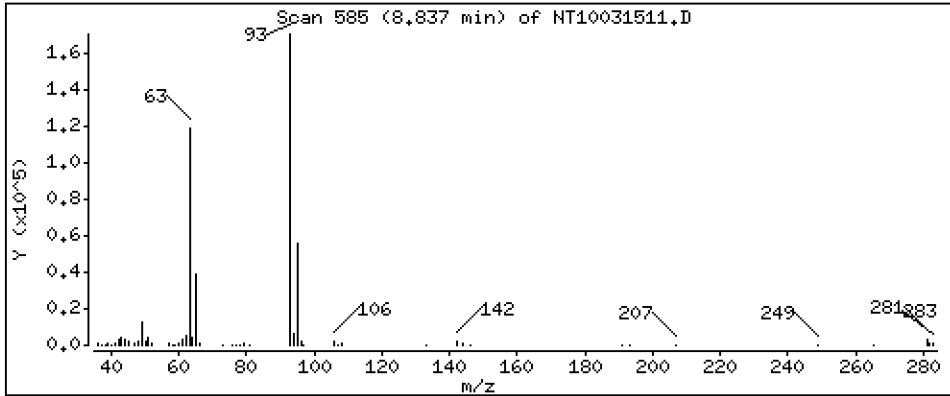
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

4 Bis(2-Chloroethyl)ether

Concentration: 5,258 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

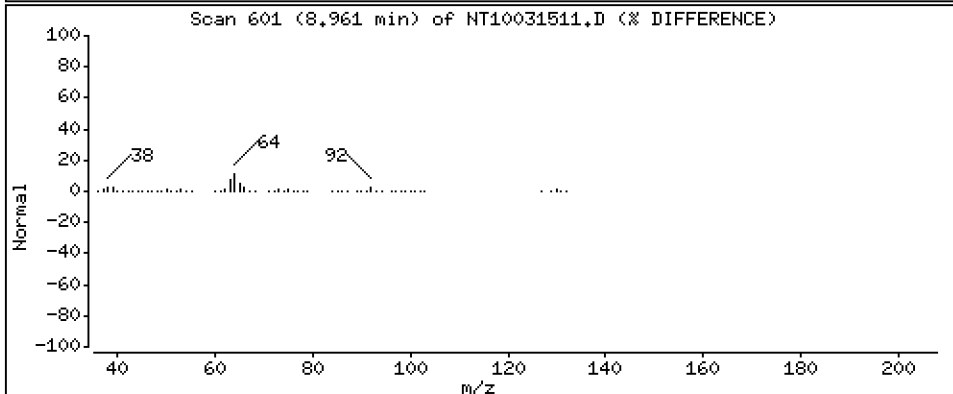
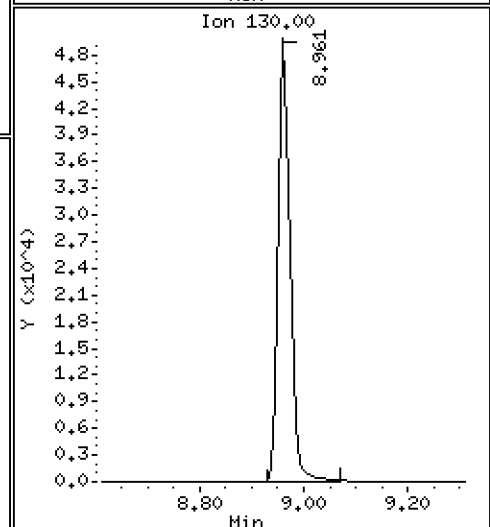
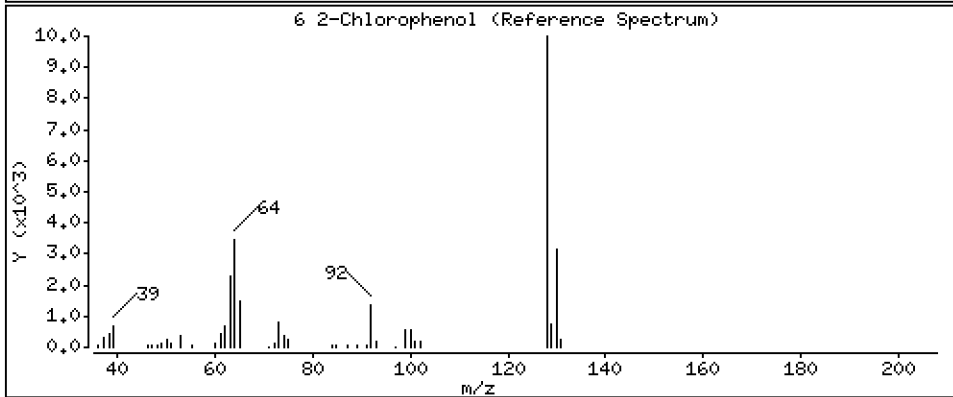
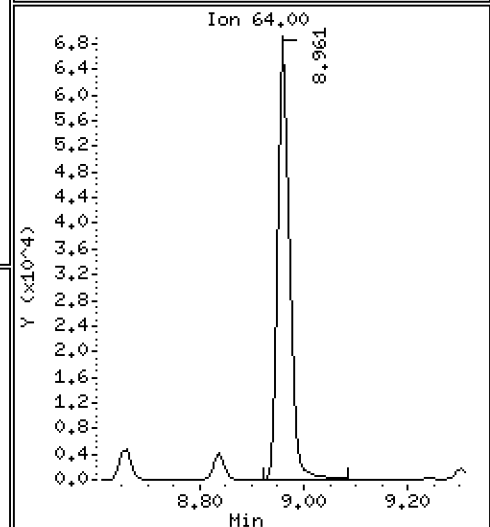
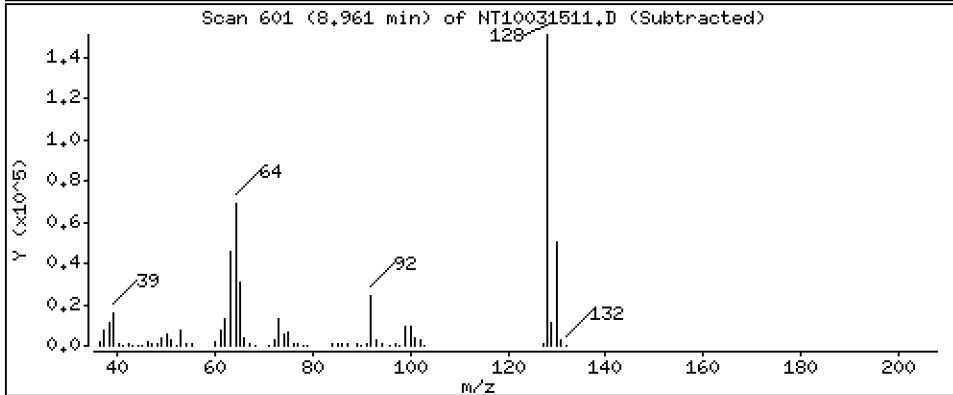
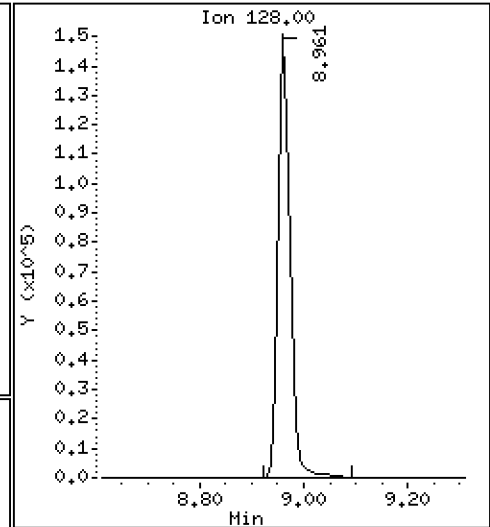
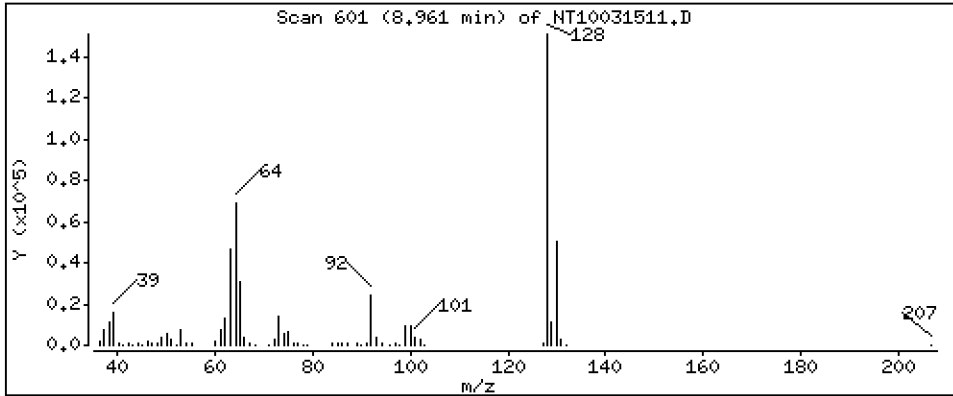
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 4,277 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

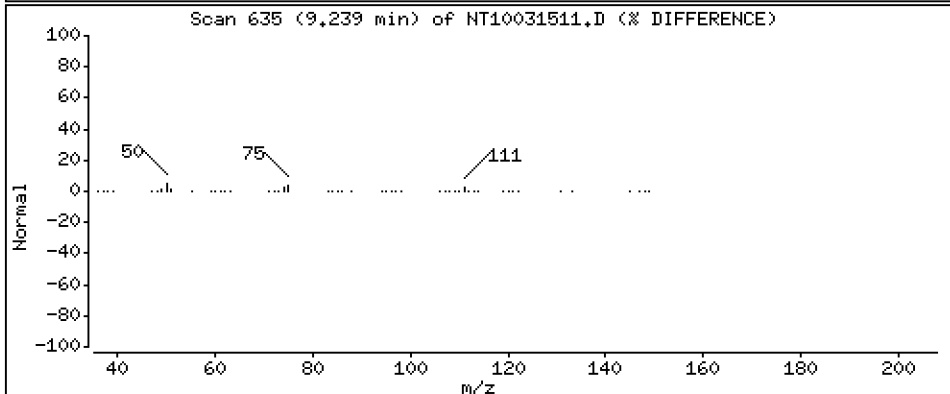
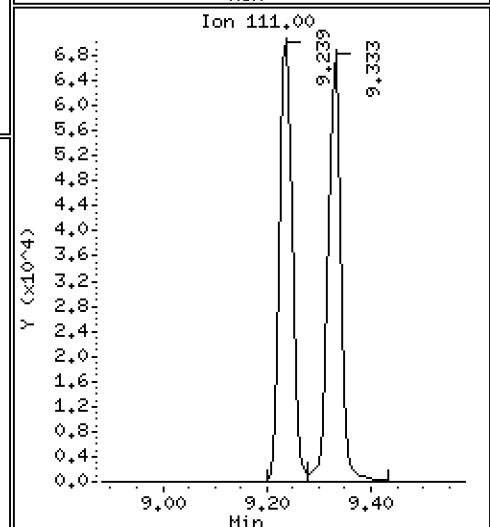
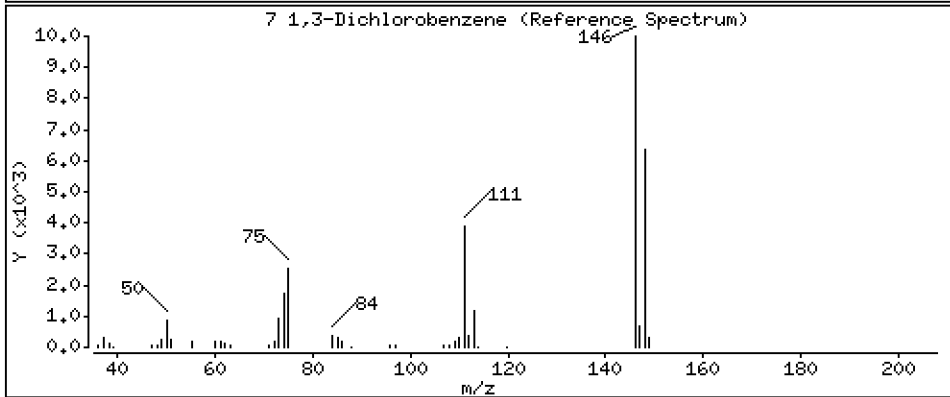
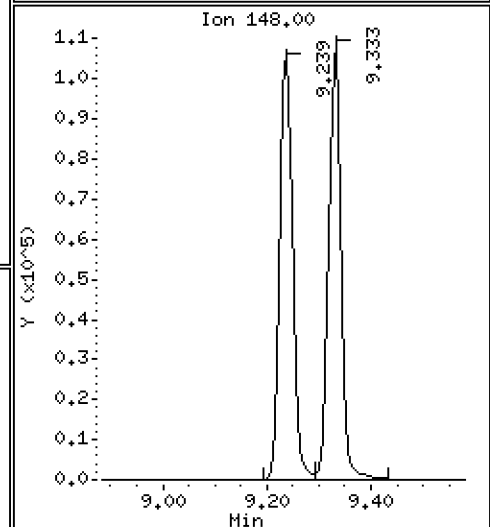
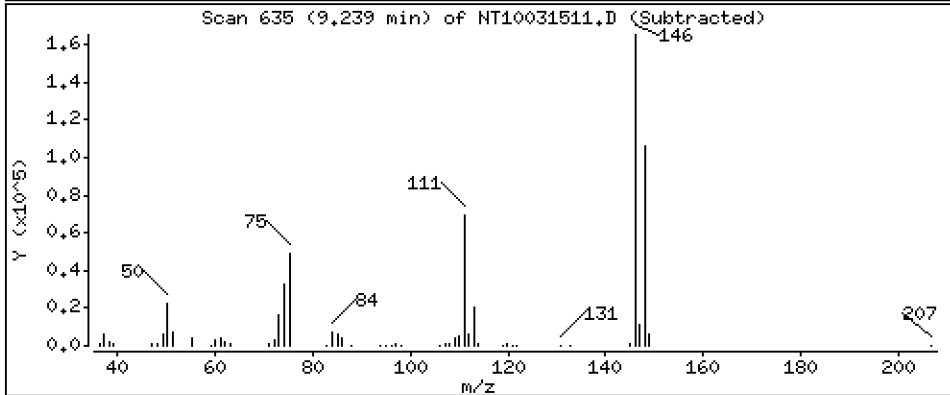
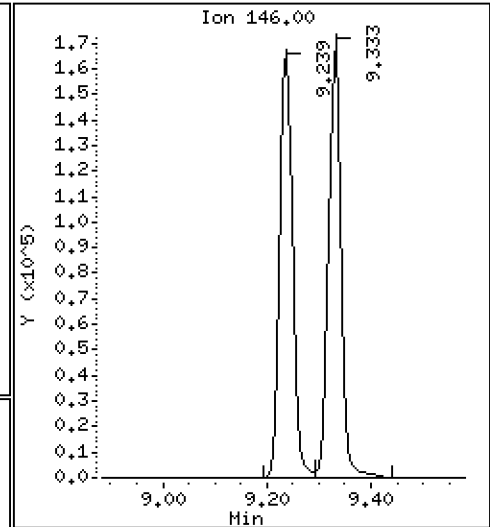
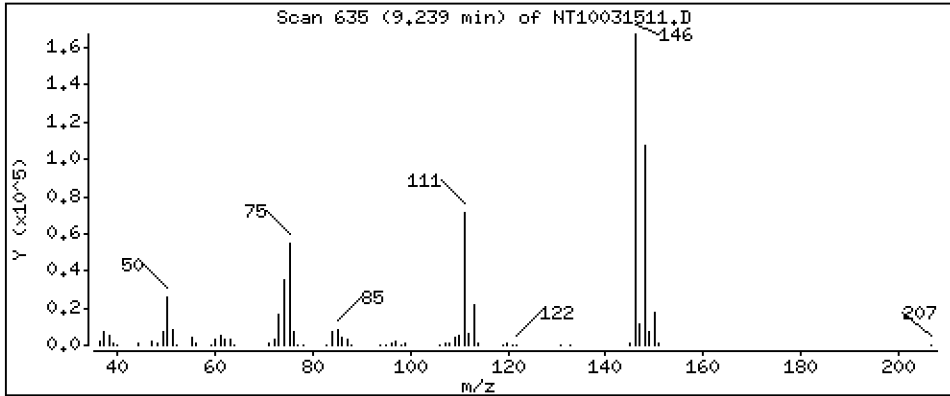
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

7 1,3-Dichlorobenzene

Concentration: 4.772 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

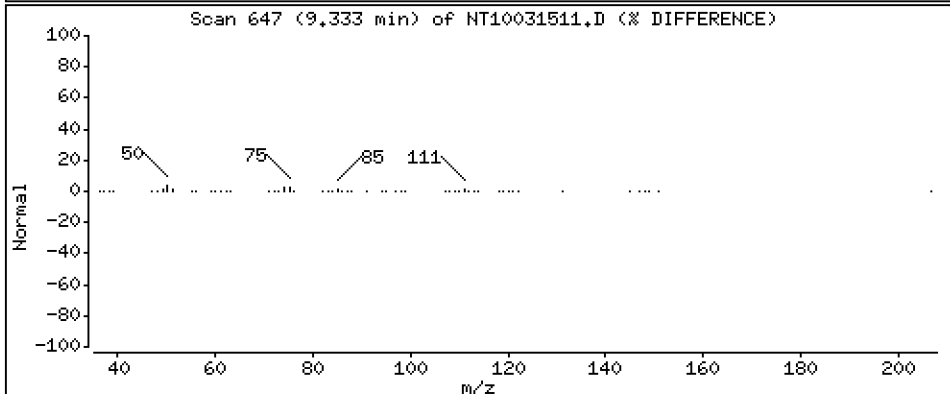
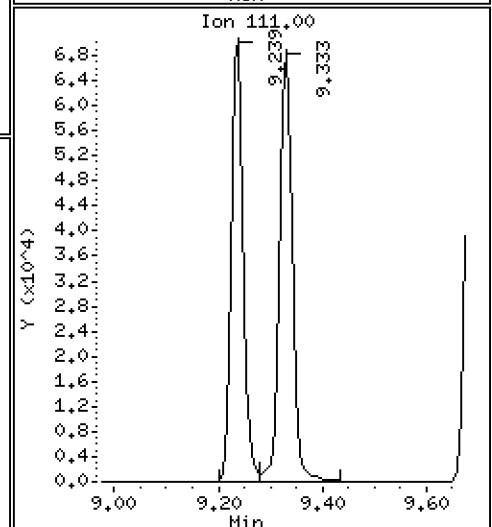
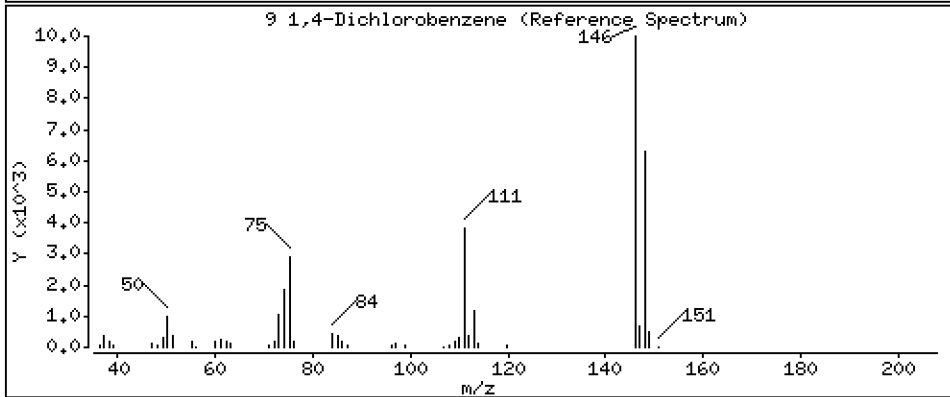
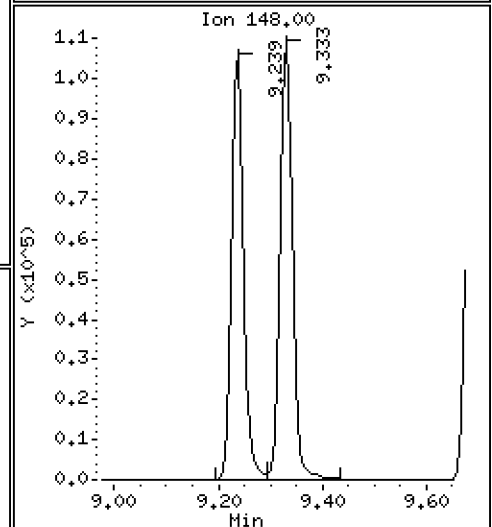
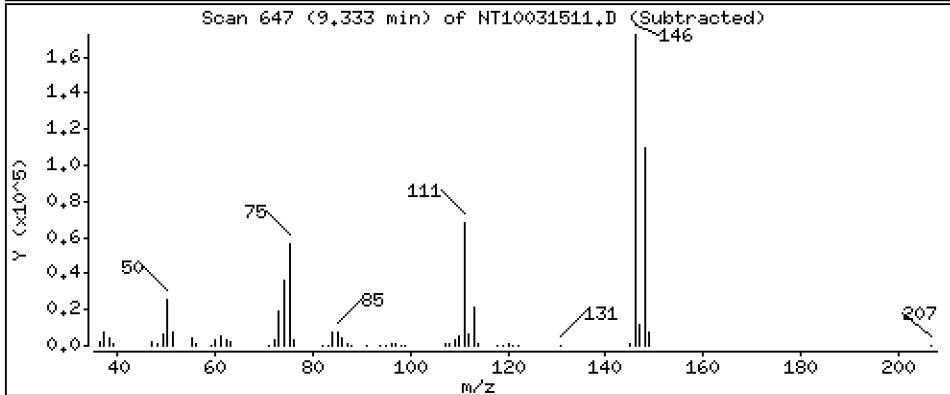
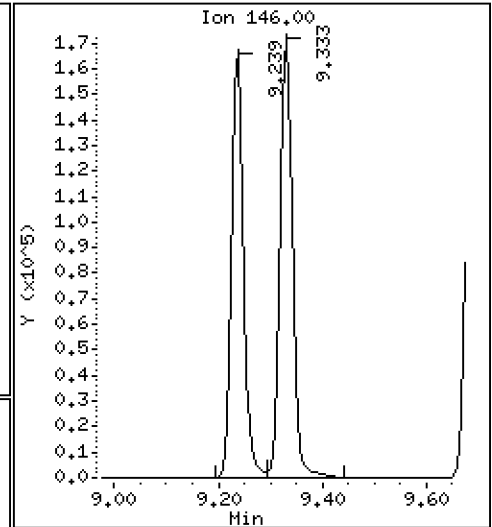
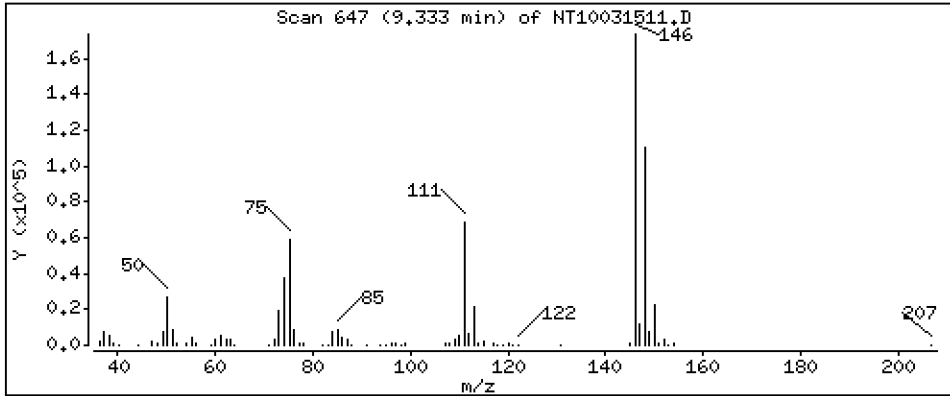
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 4,913 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

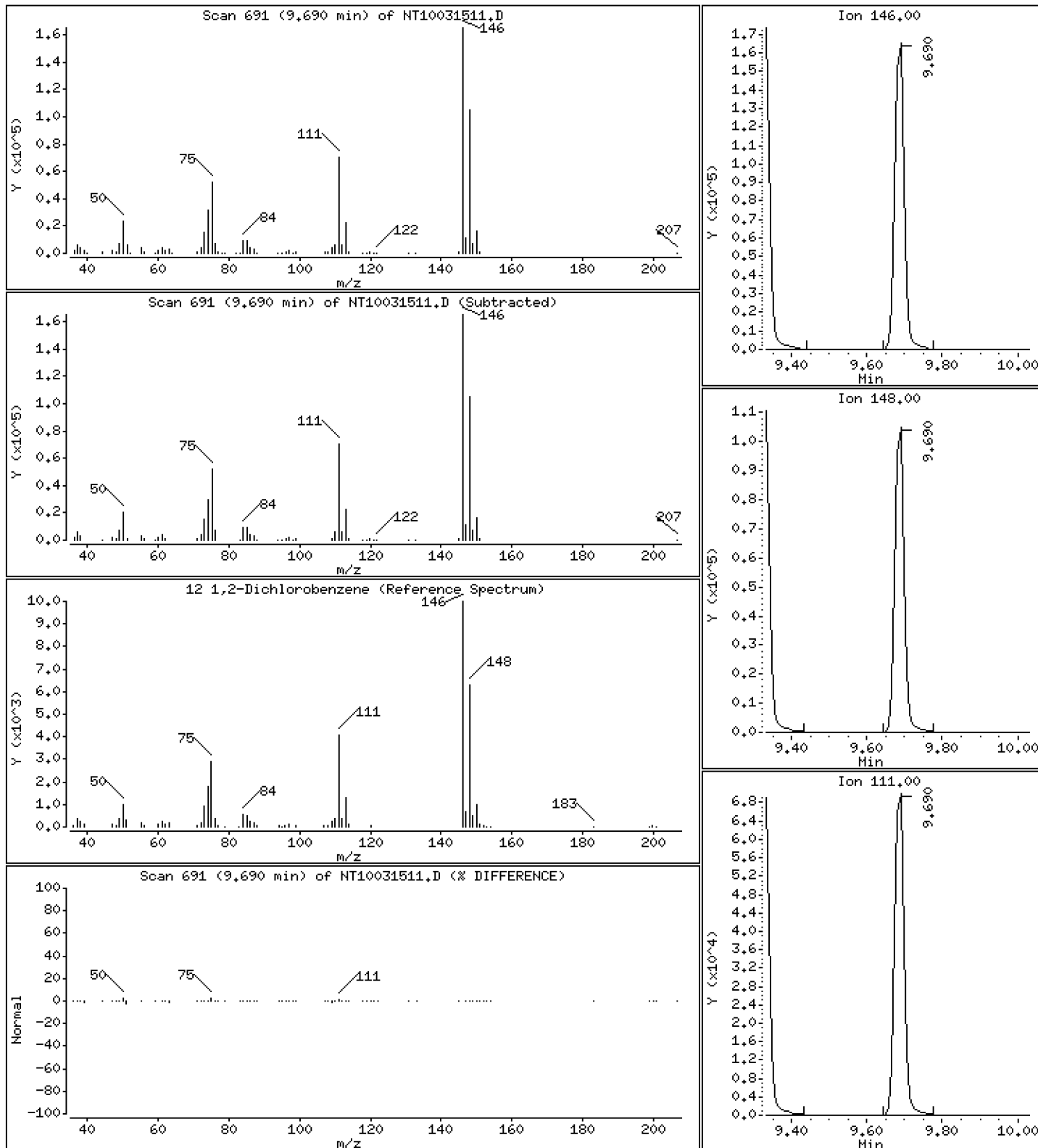
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

12 1,2-Dichlorobenzene

Concentration: 4,882 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

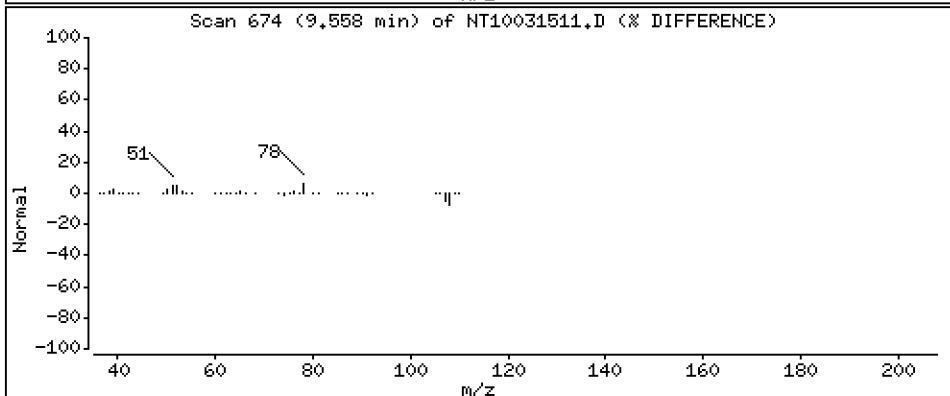
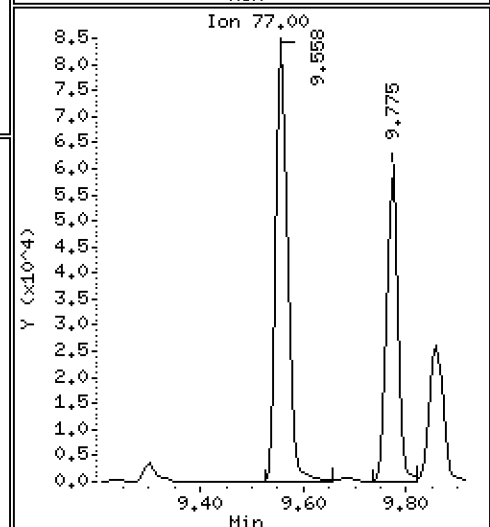
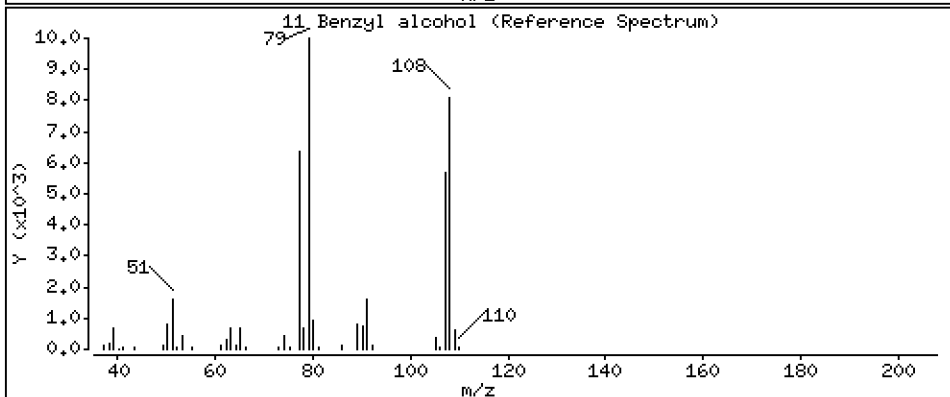
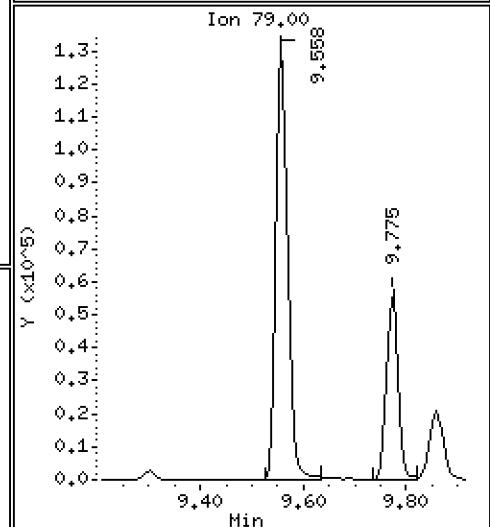
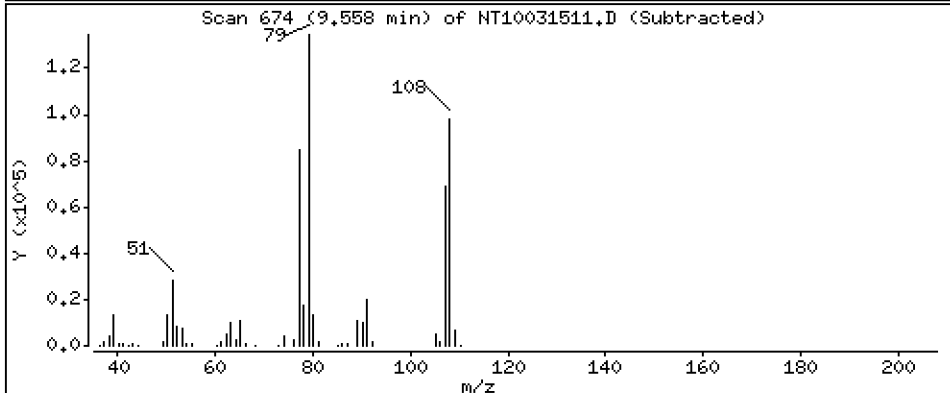
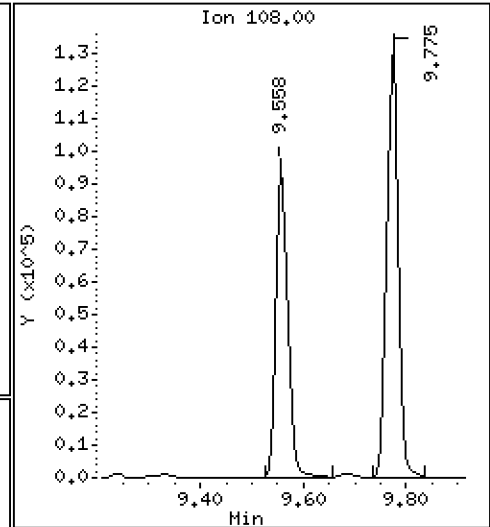
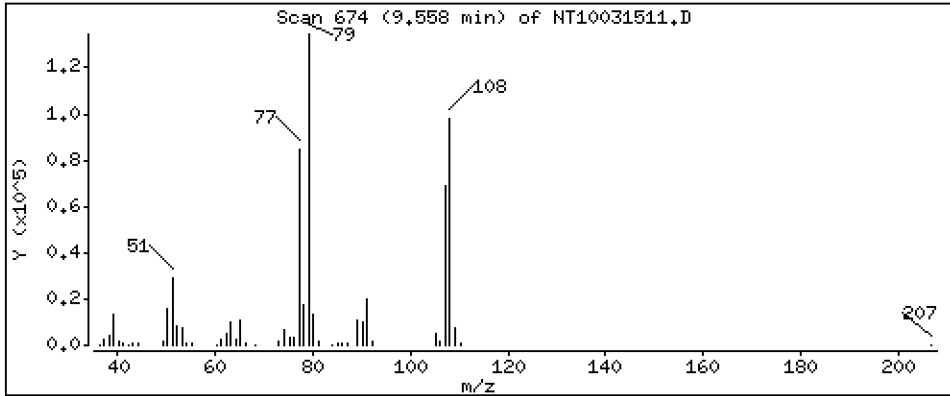
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 4.927 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

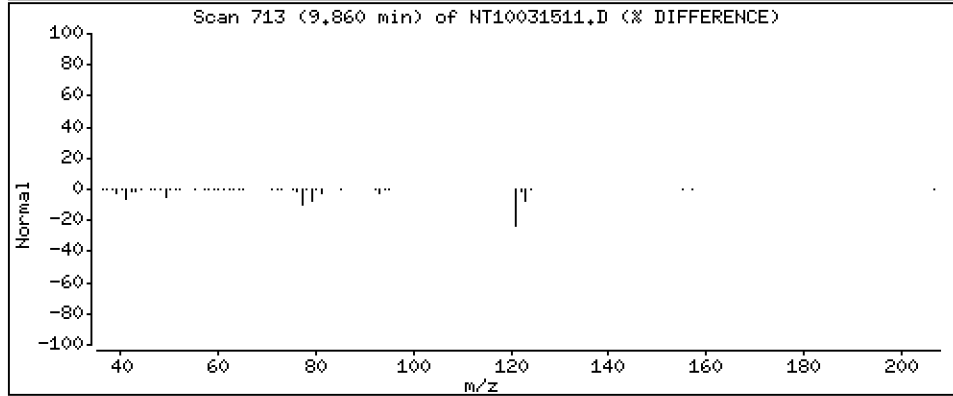
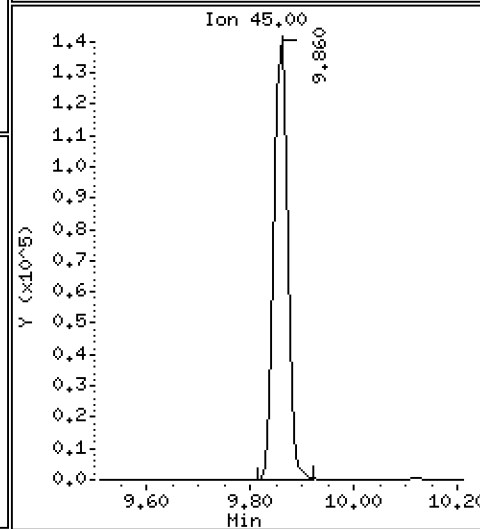
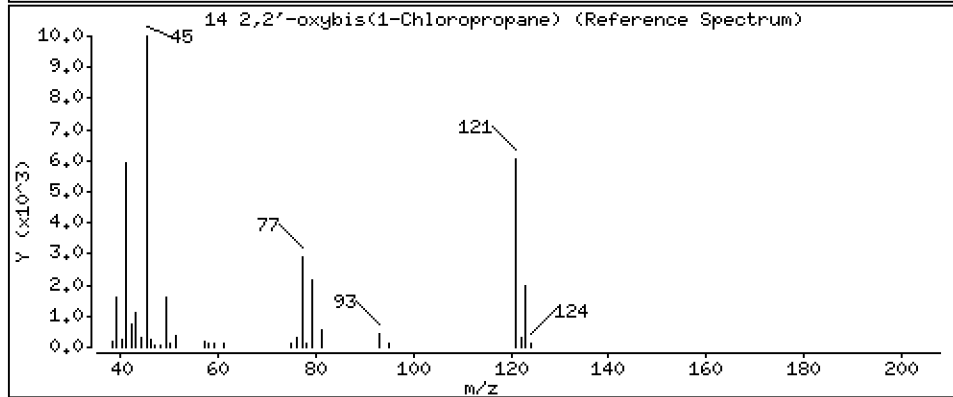
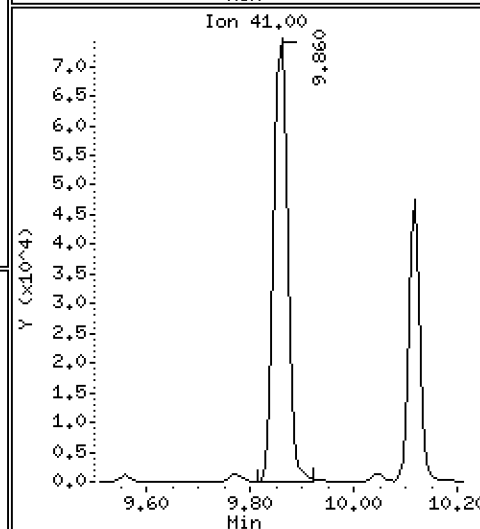
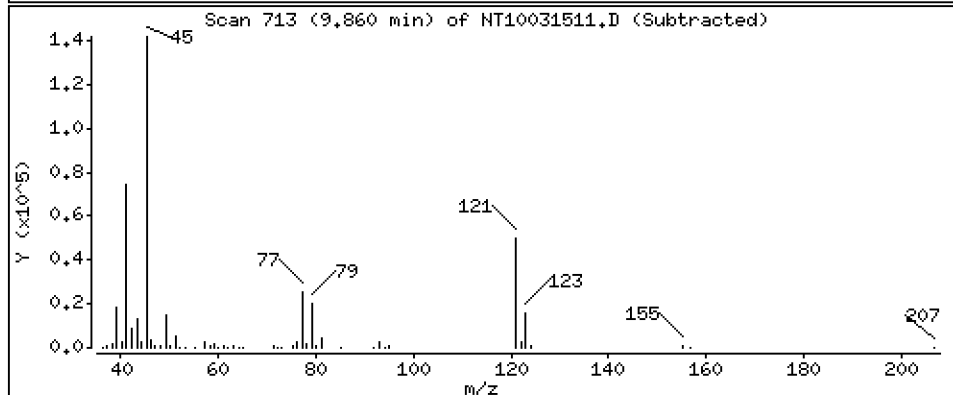
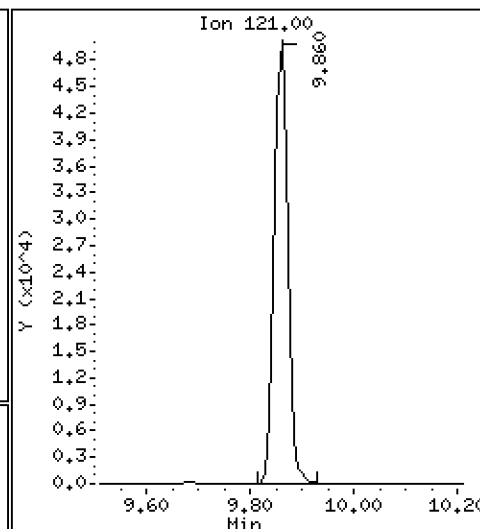
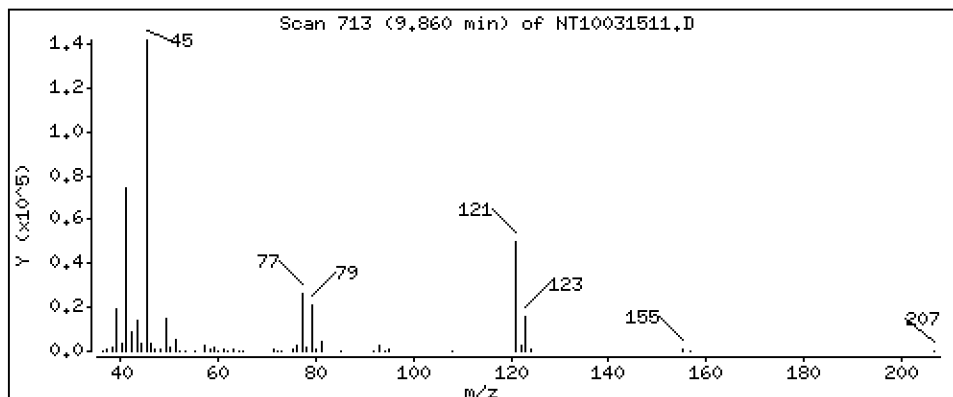
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 6,214 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

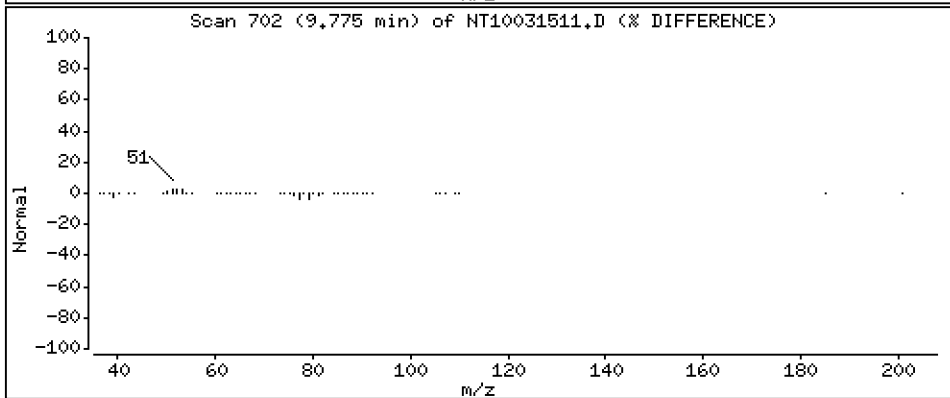
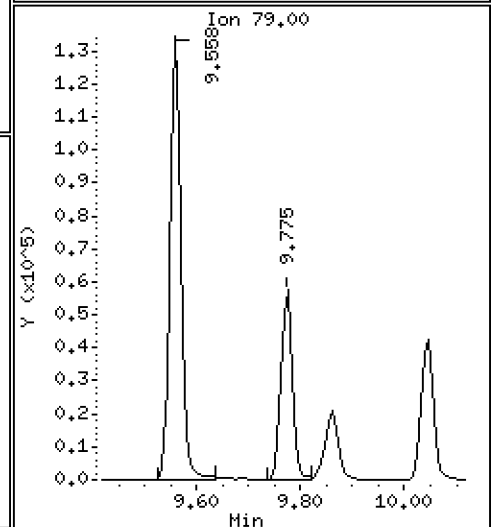
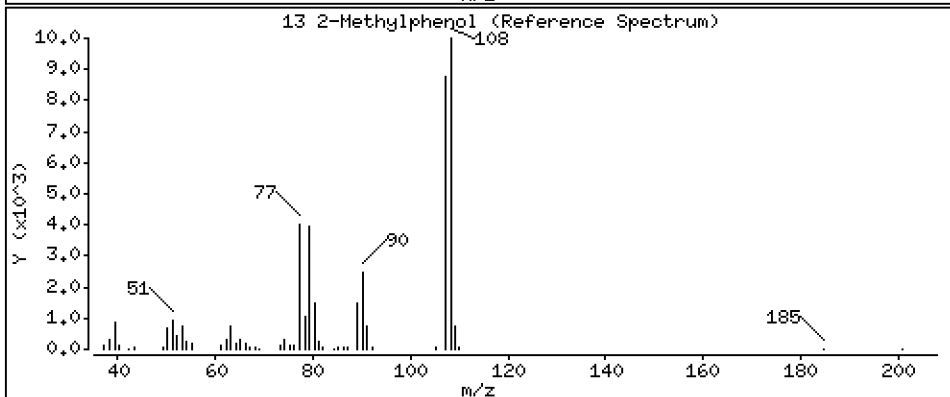
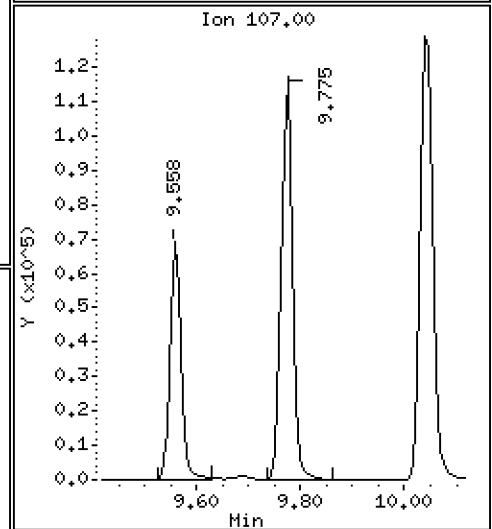
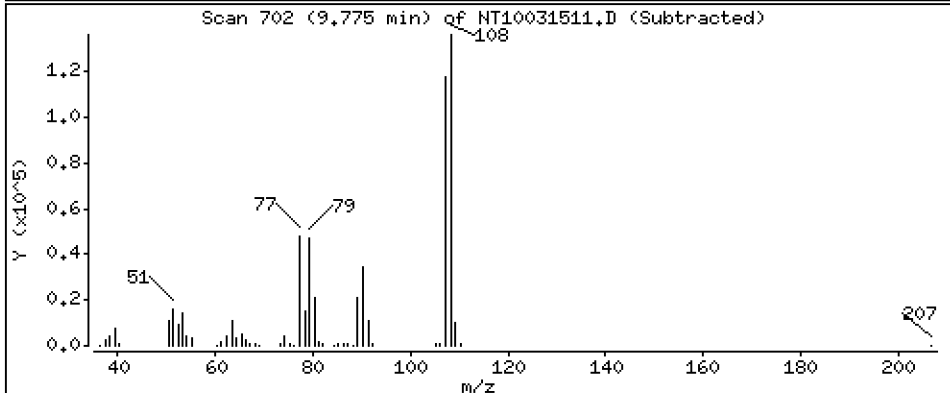
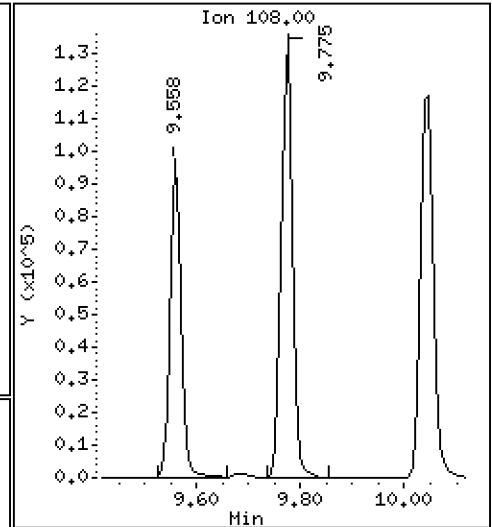
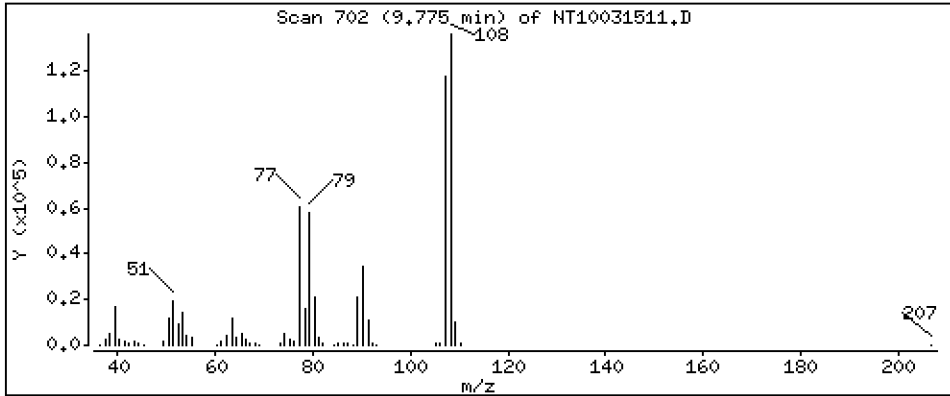
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

13 2-Methylphenol

Concentration: 4.215 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

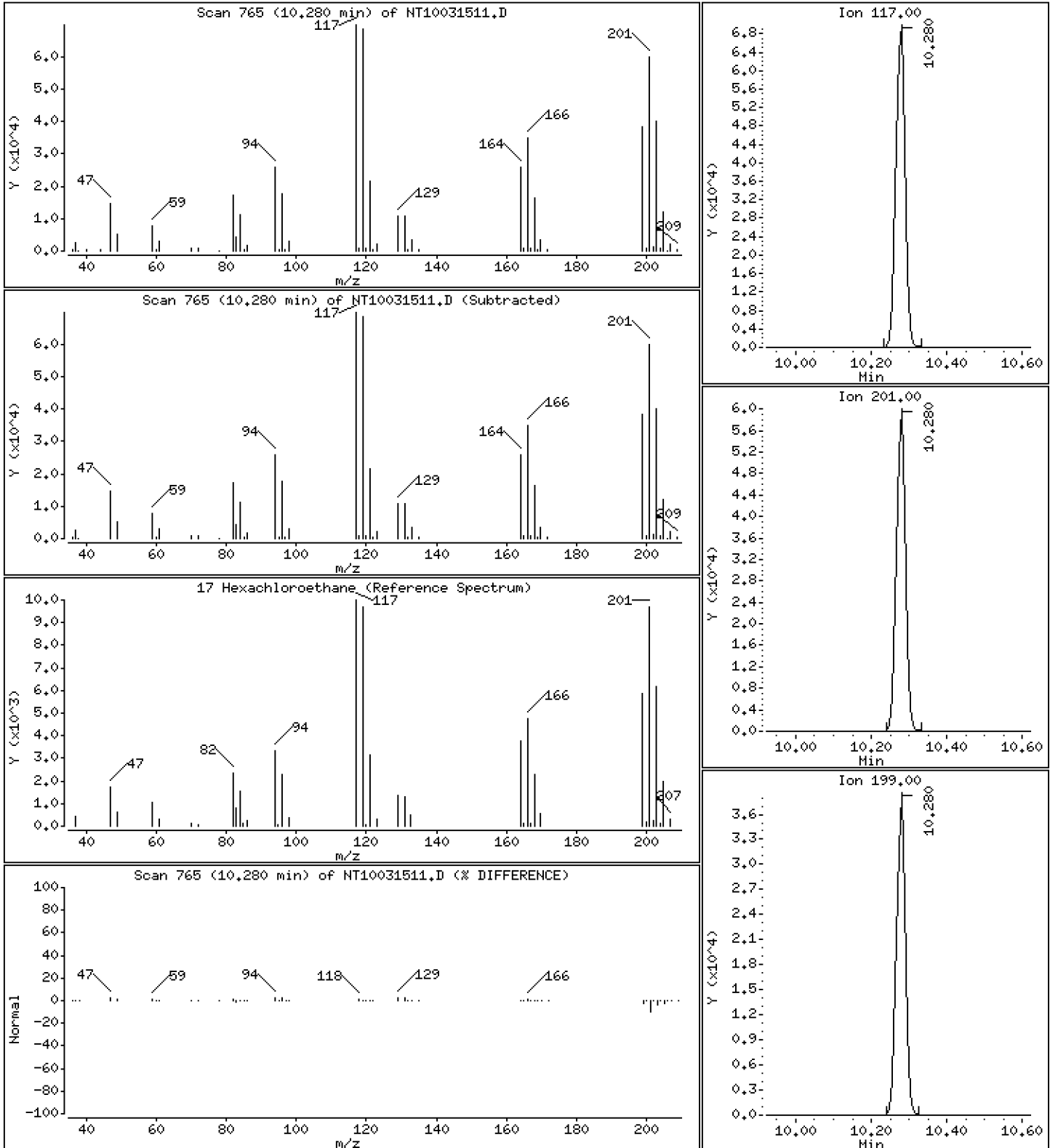
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

17 Hexachloroethane

Concentration: 5,003 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

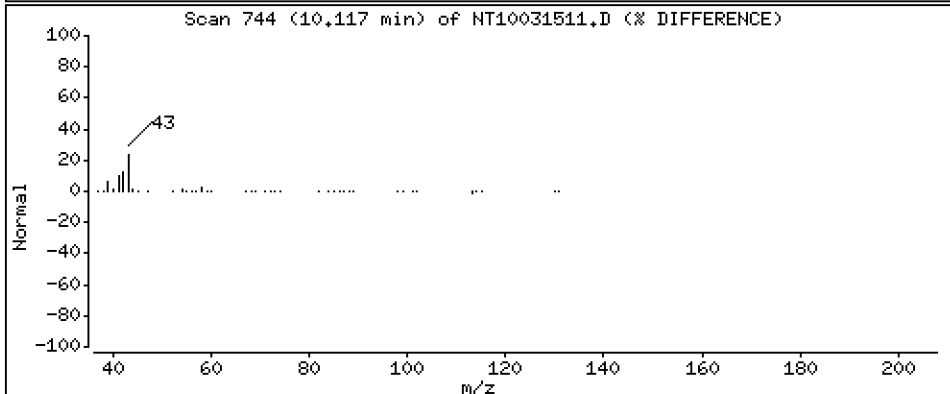
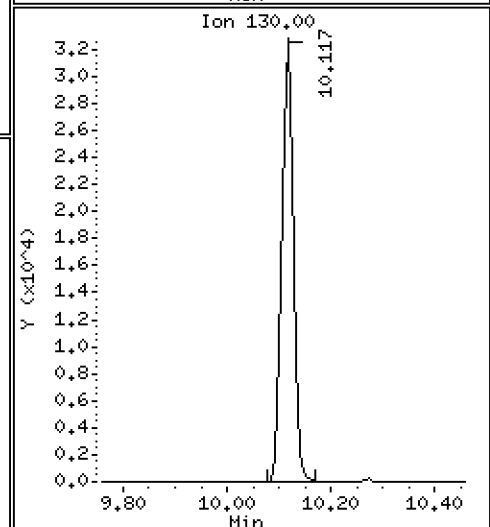
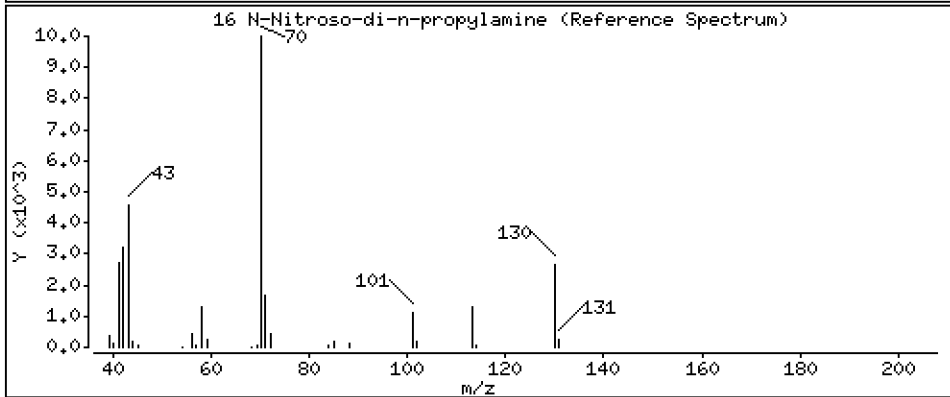
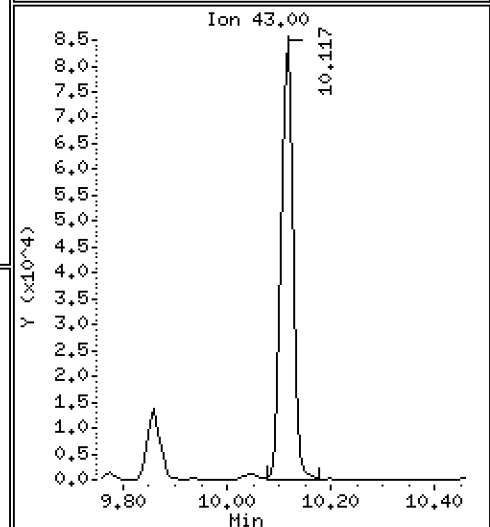
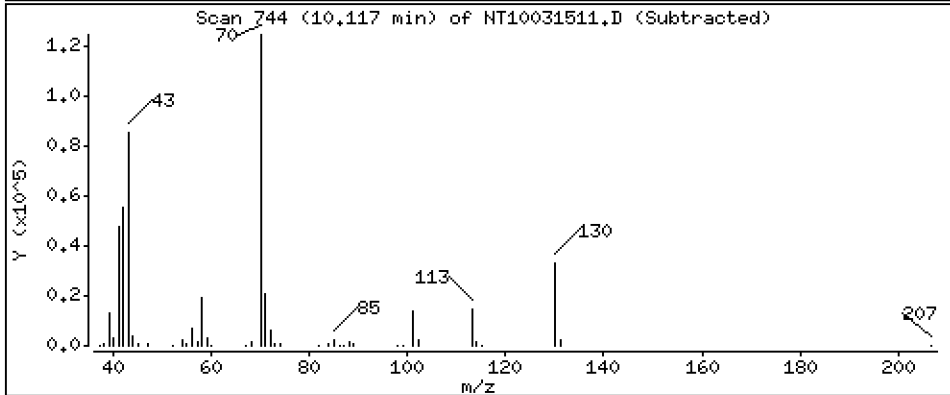
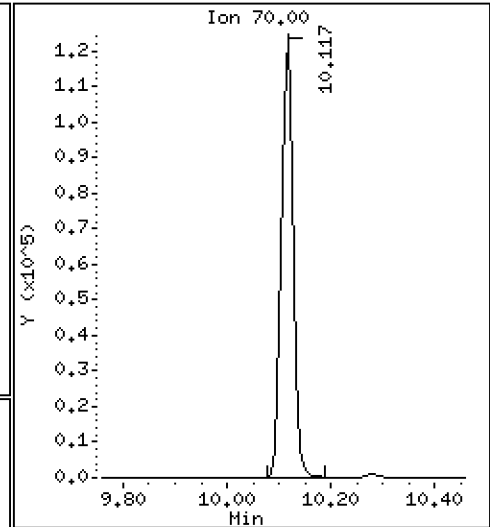
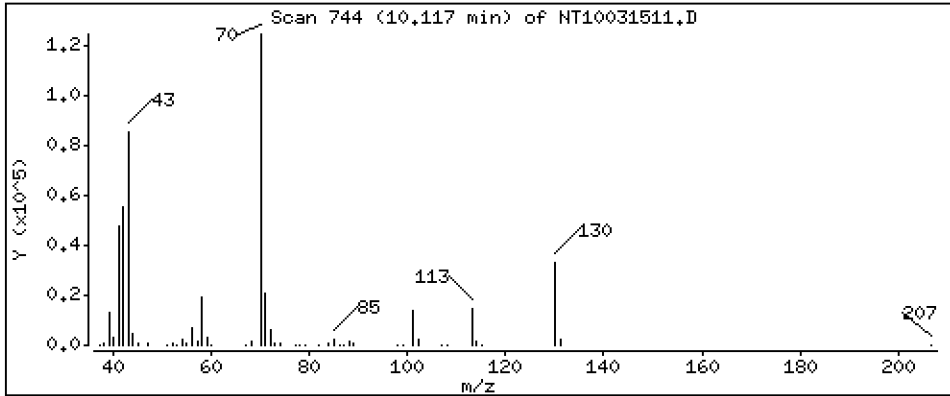
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

16 N-Nitroso-di-n-propylamine

Concentration: 5,179 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

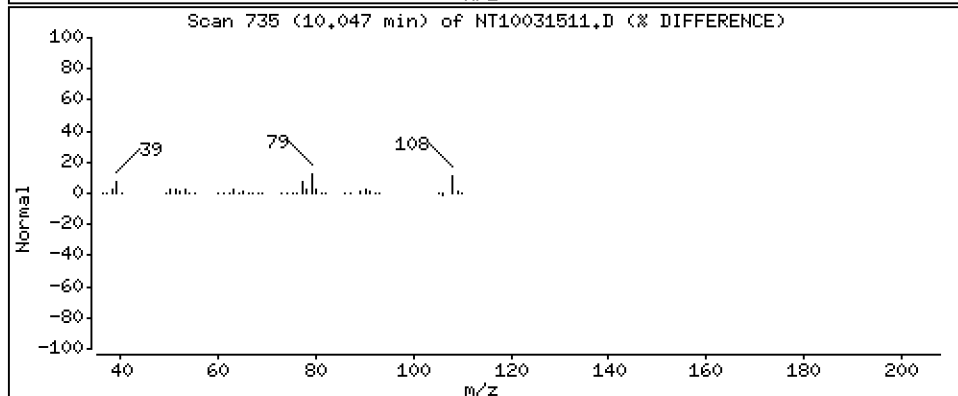
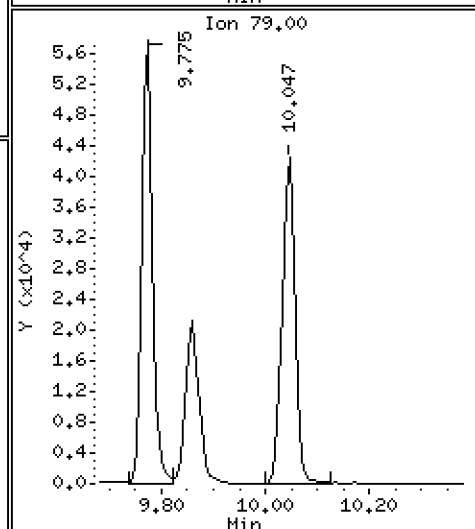
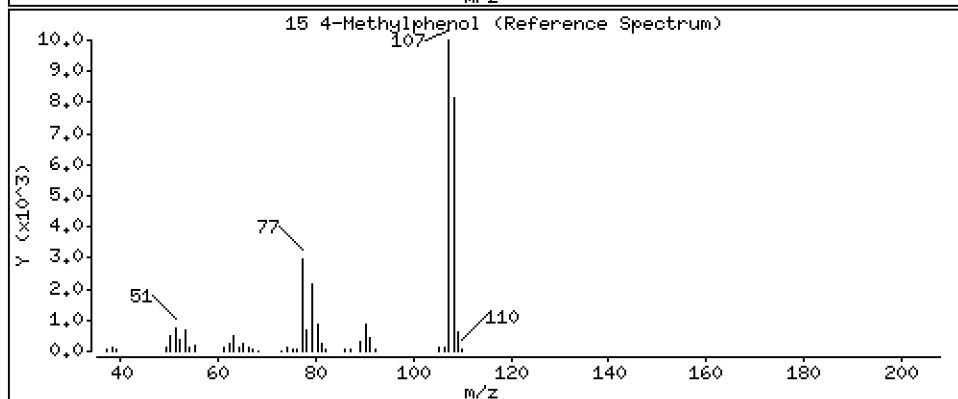
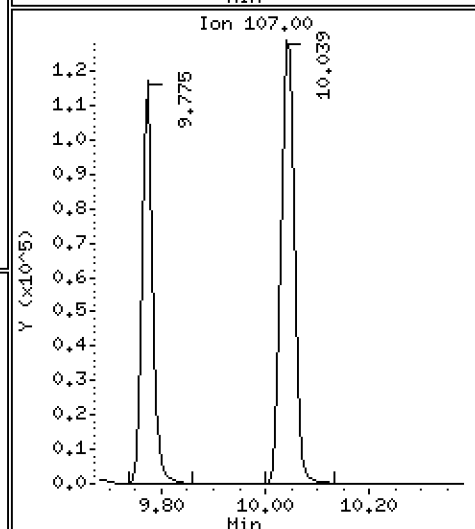
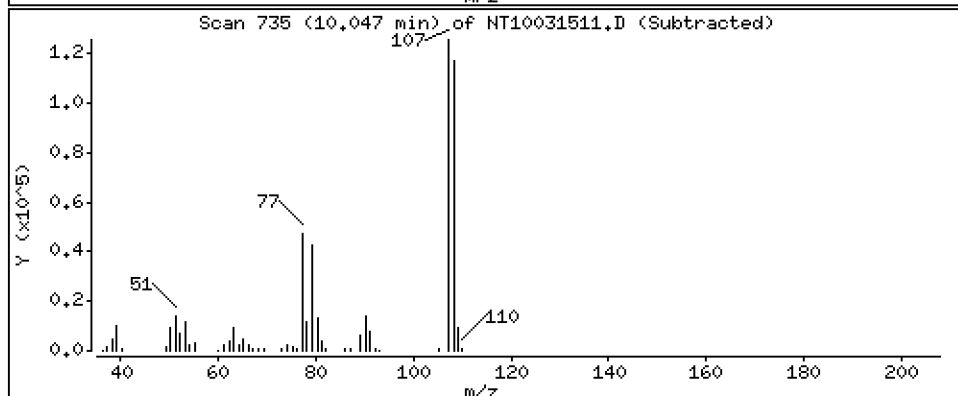
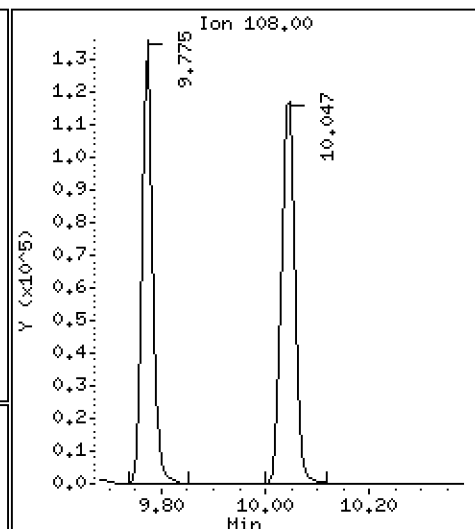
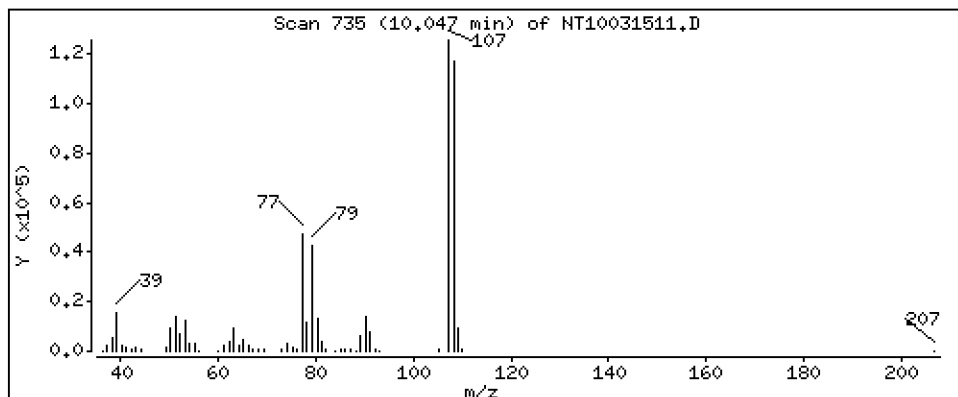
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

15 4-Methylphenol

Concentration: 4,365 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

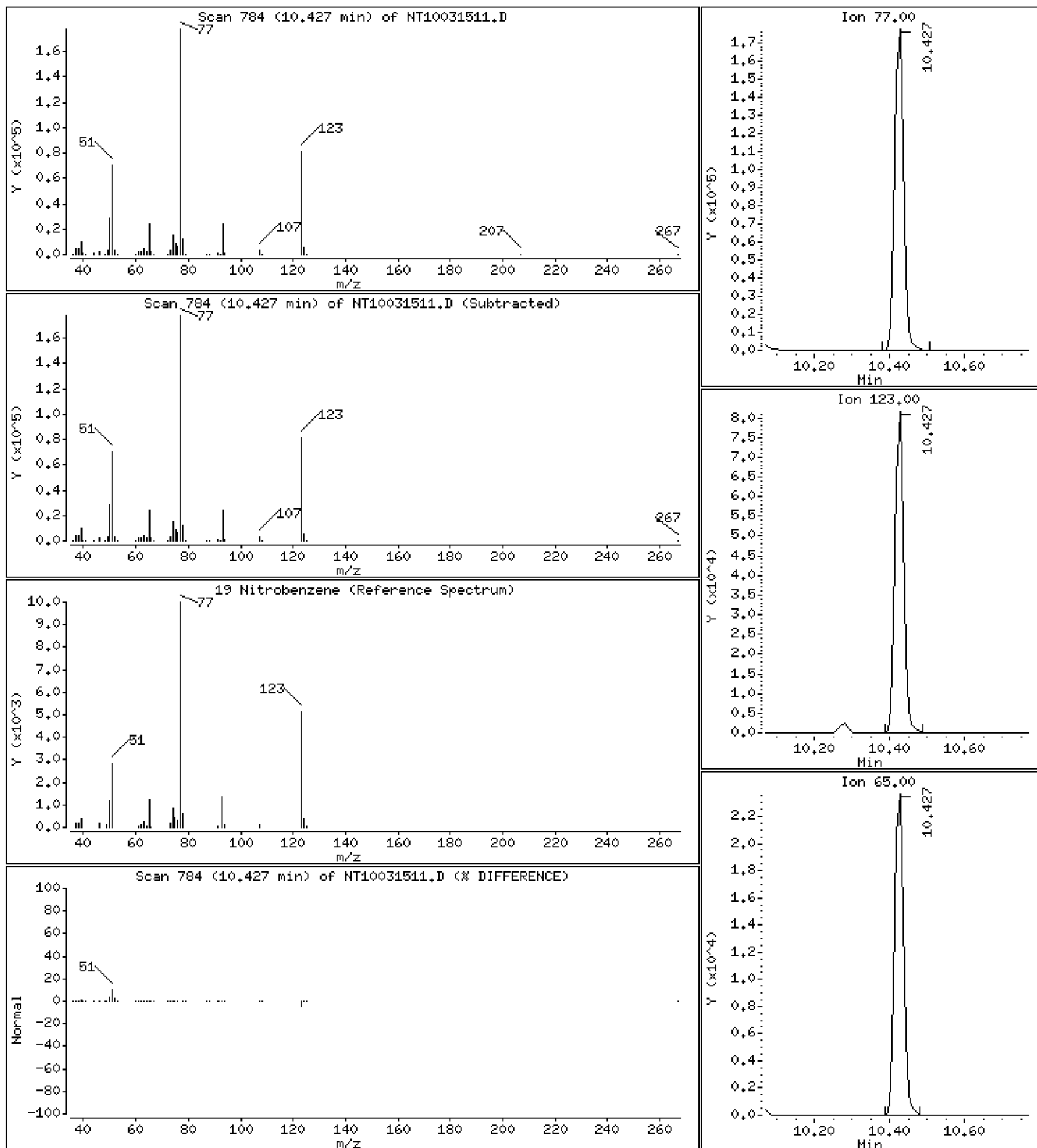
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

19 Nitrobenzene

Concentration: 4,858 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

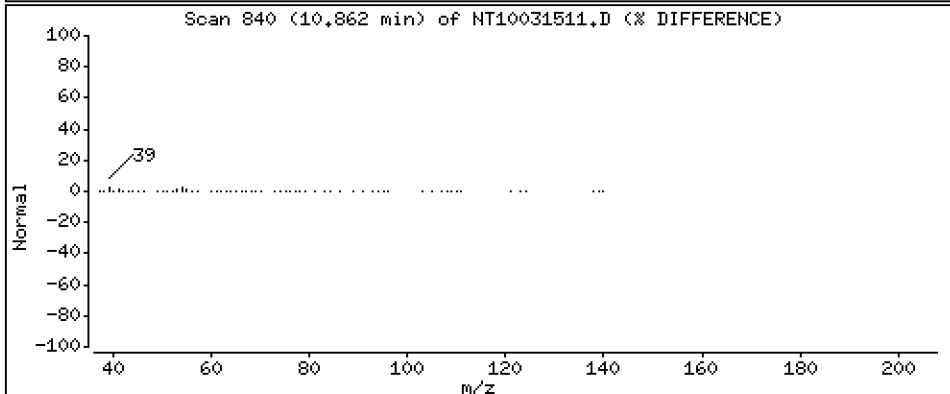
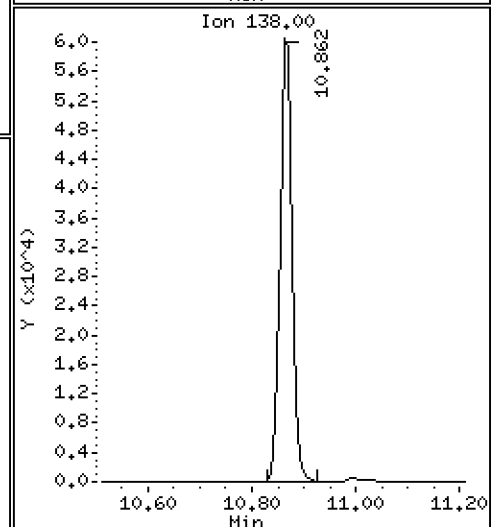
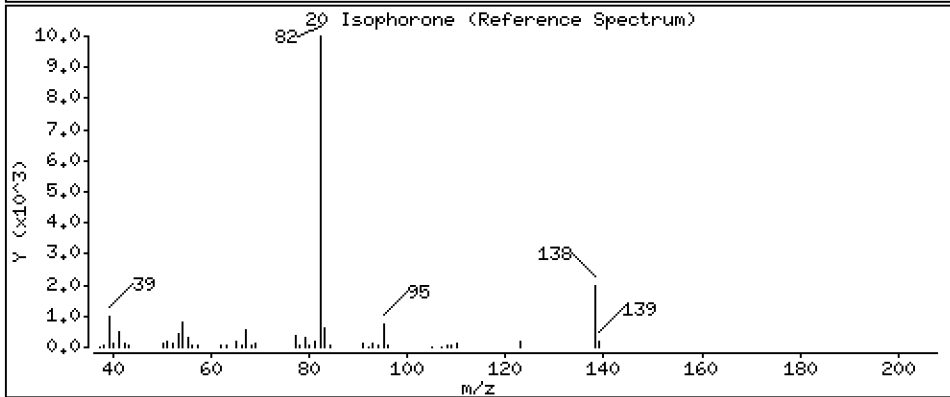
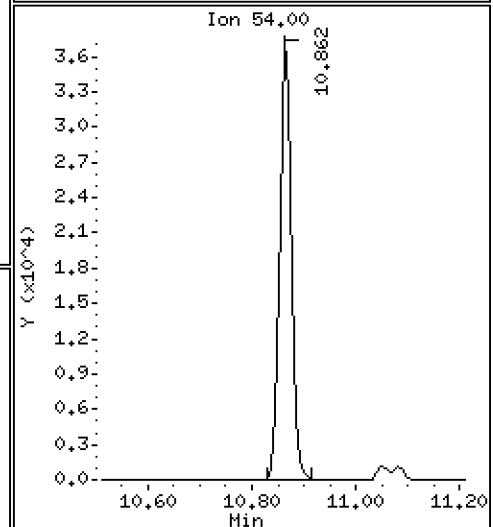
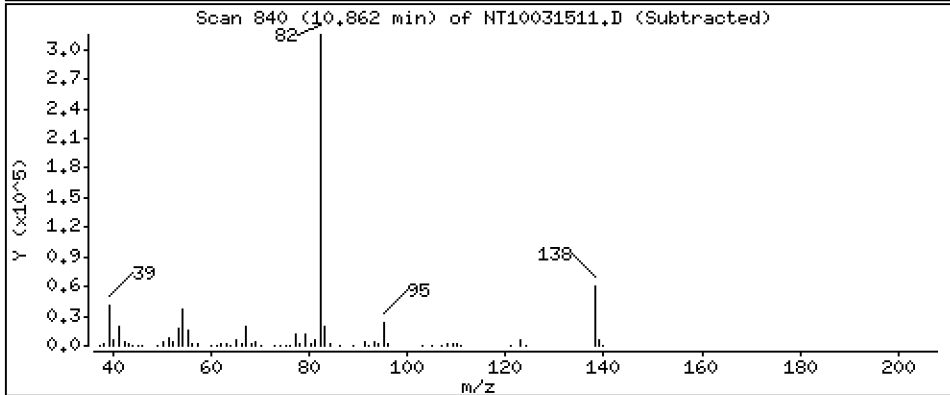
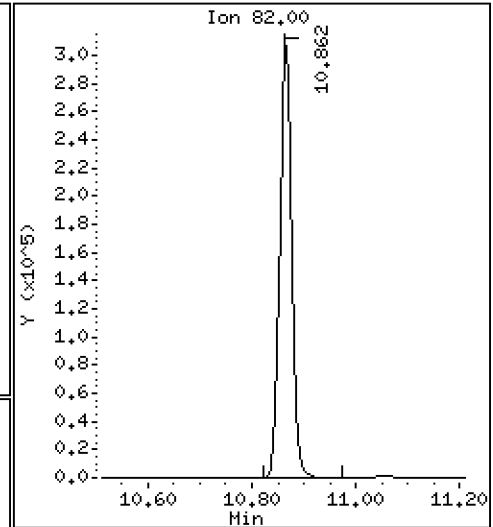
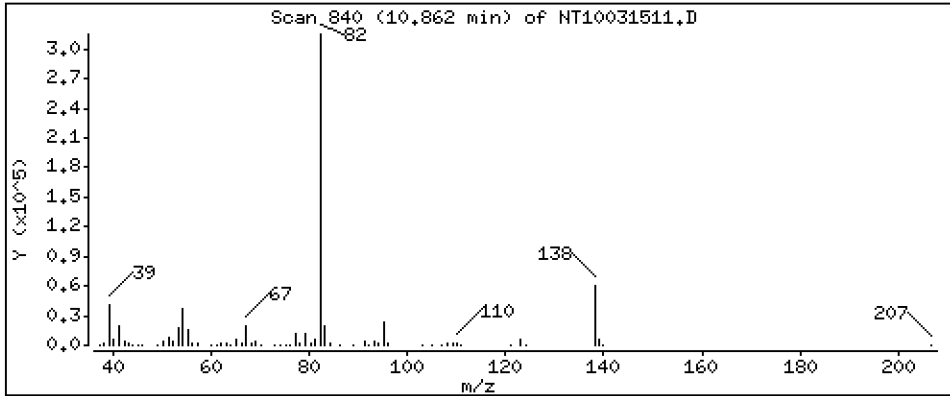
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

20 Isophorone

Concentration: 7,696 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

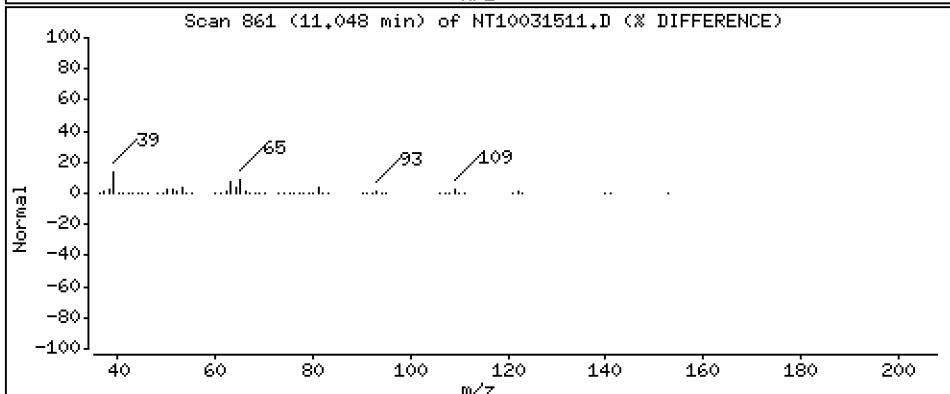
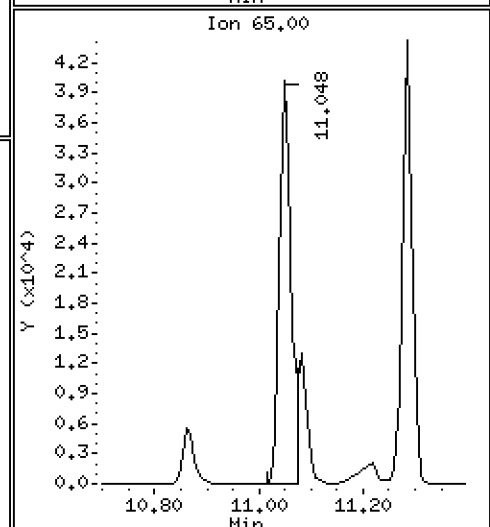
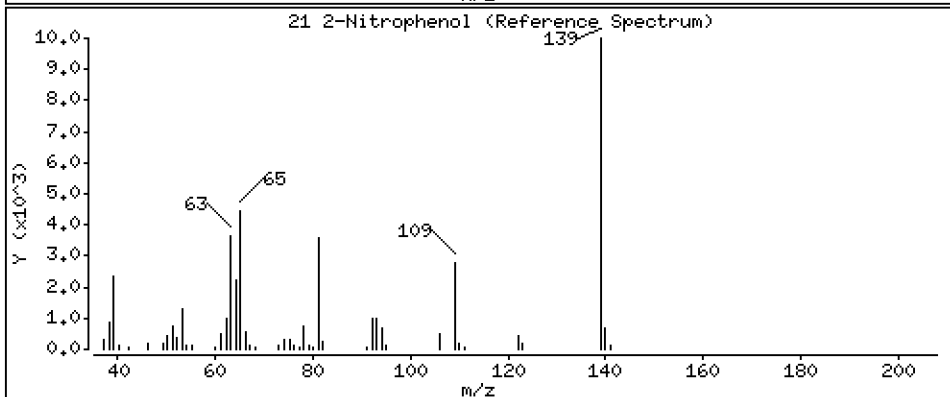
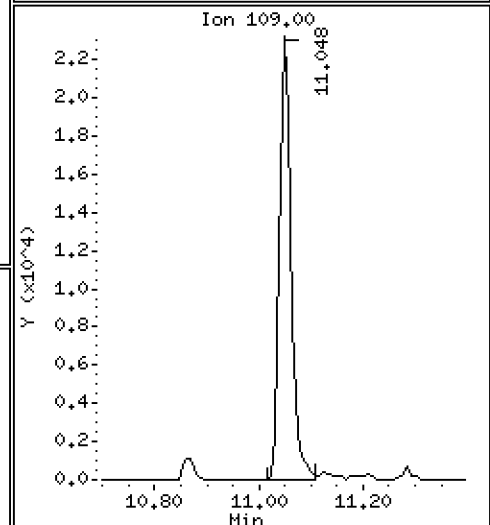
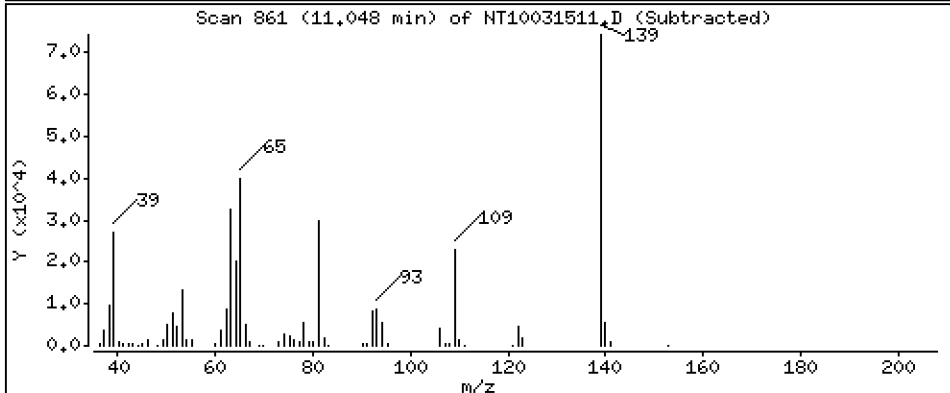
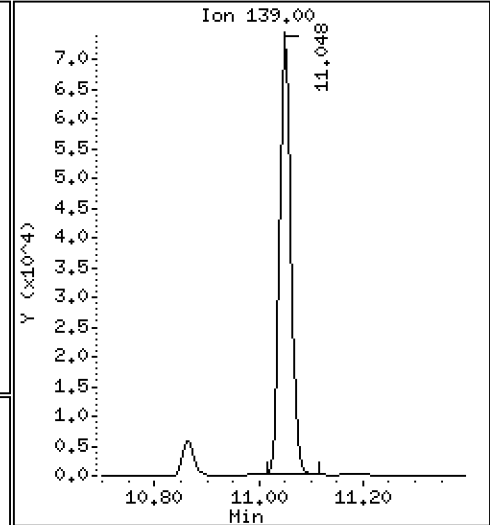
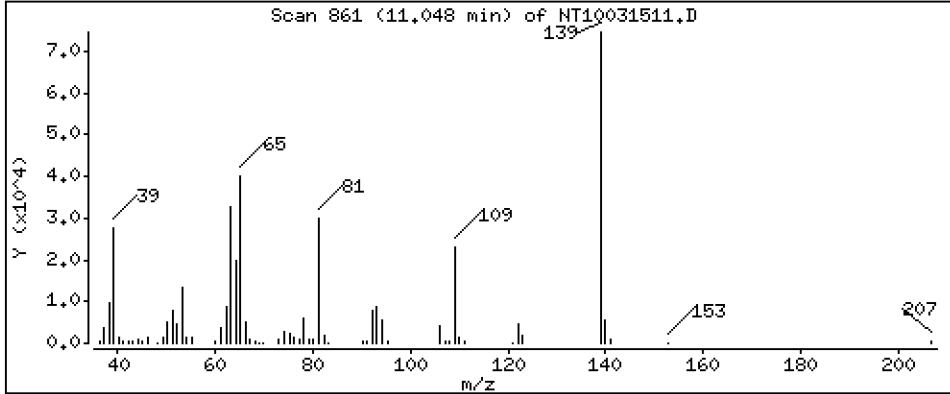
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

21 2-Nitrophenol

Concentration: 3,995 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

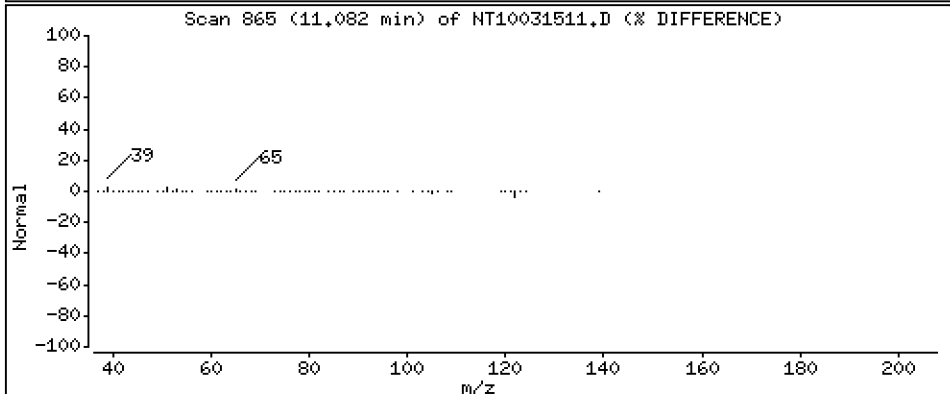
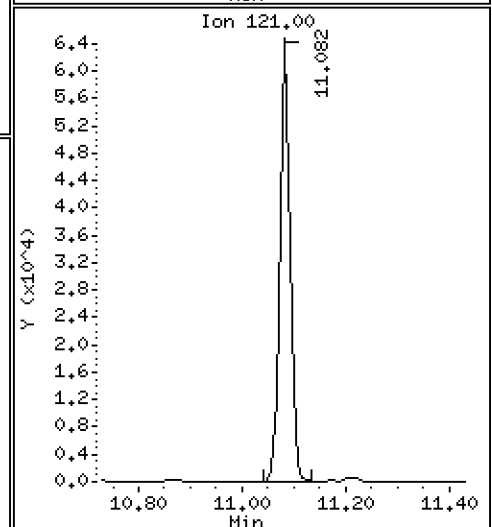
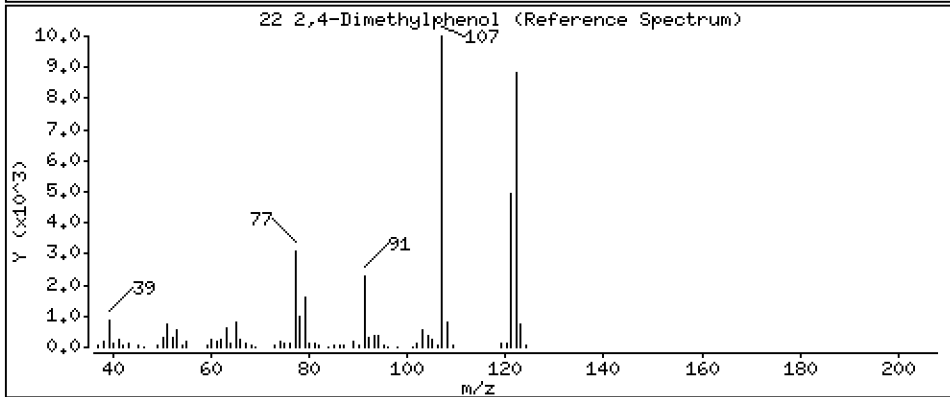
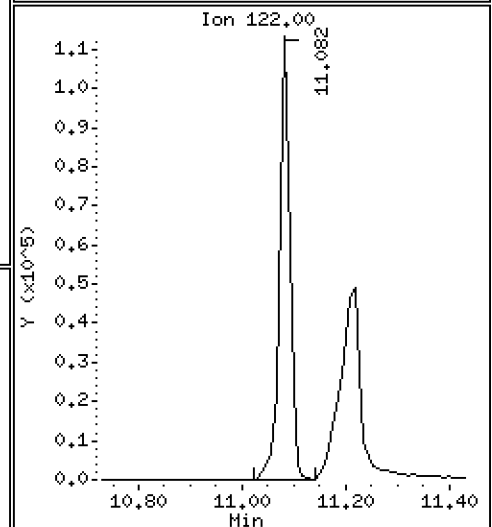
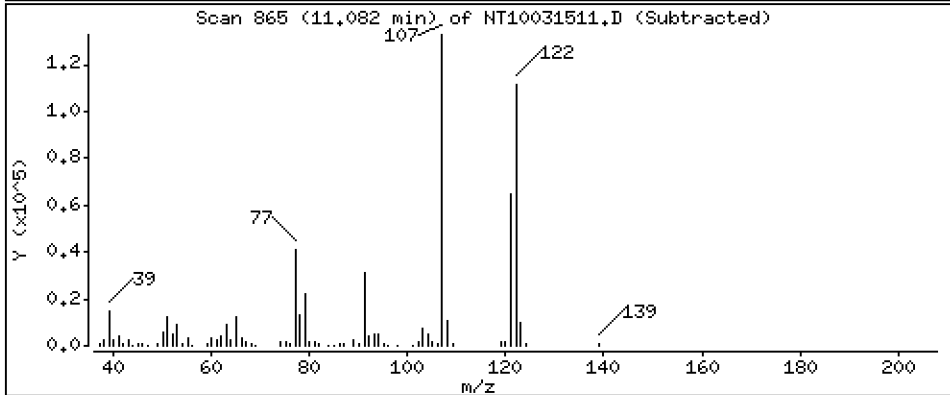
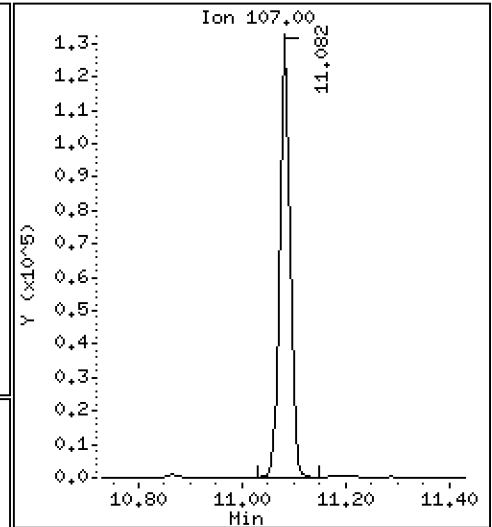
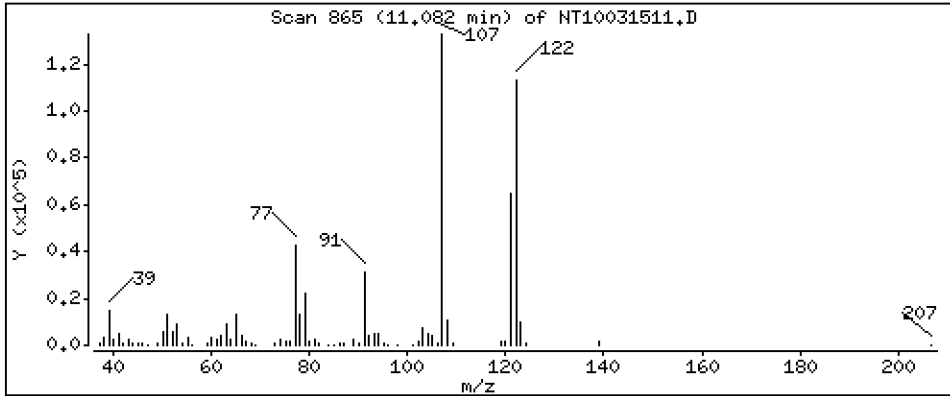
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 3,632 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

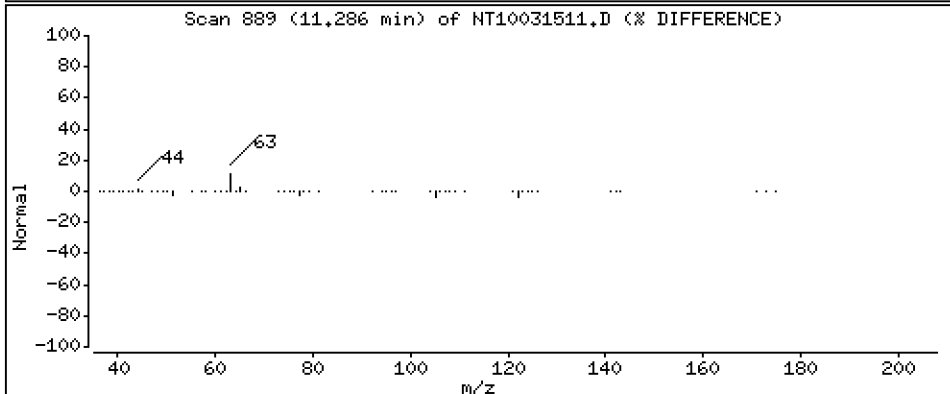
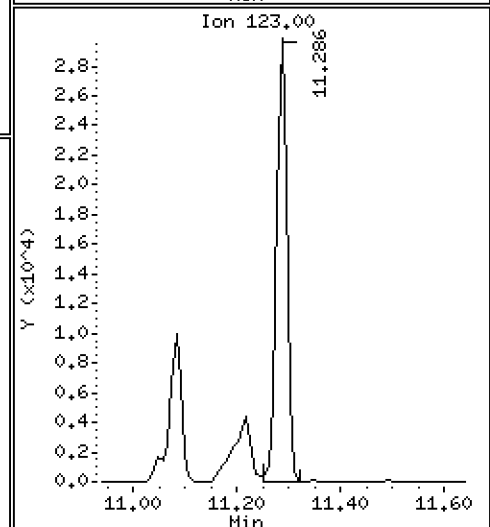
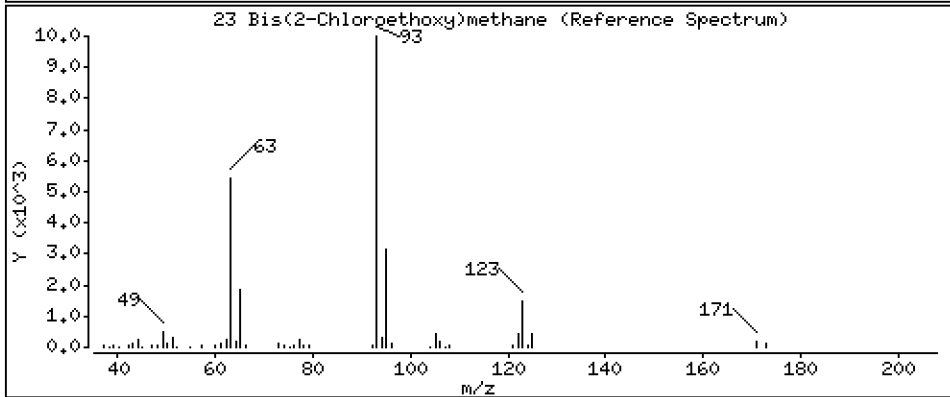
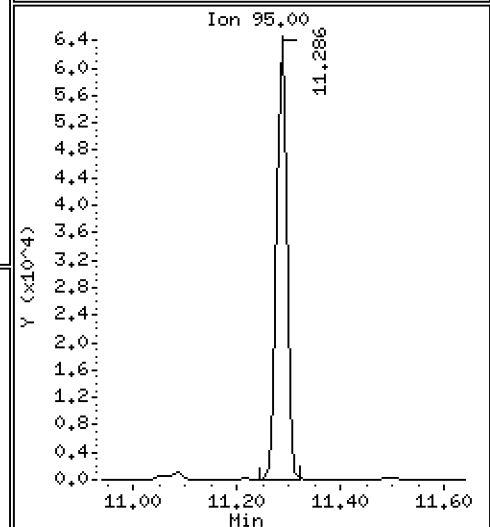
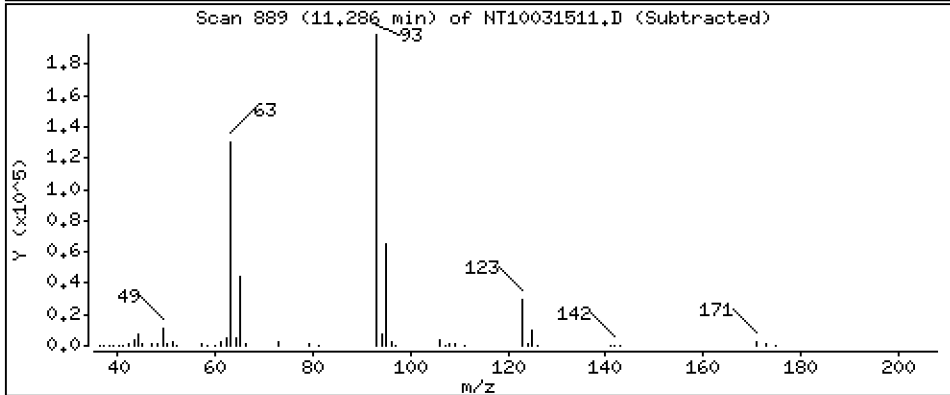
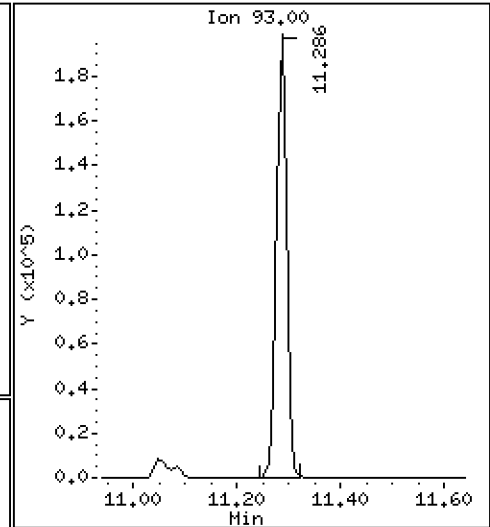
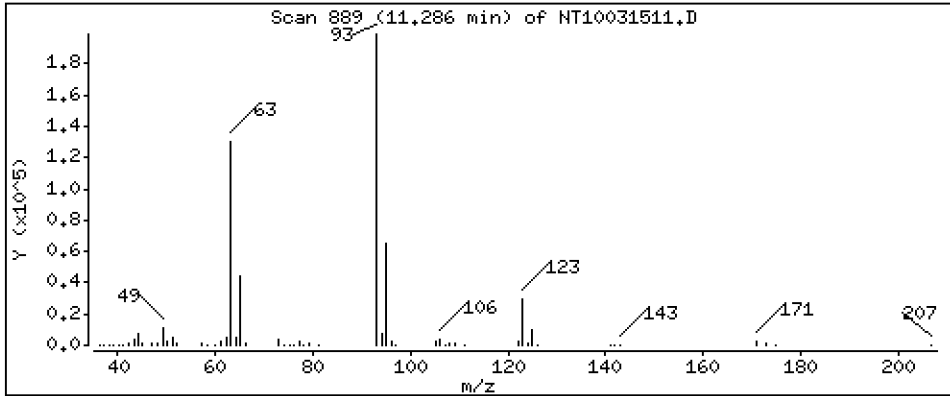
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

23 Bis(2-Chloroethoxy)methane

Concentration: 5,654 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

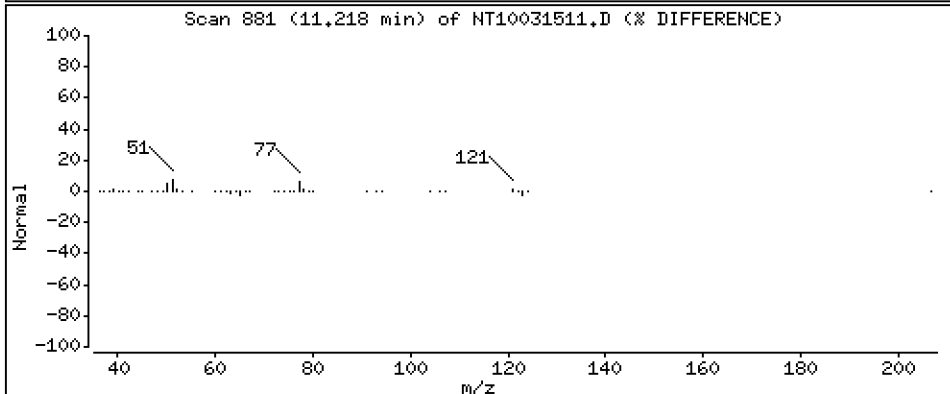
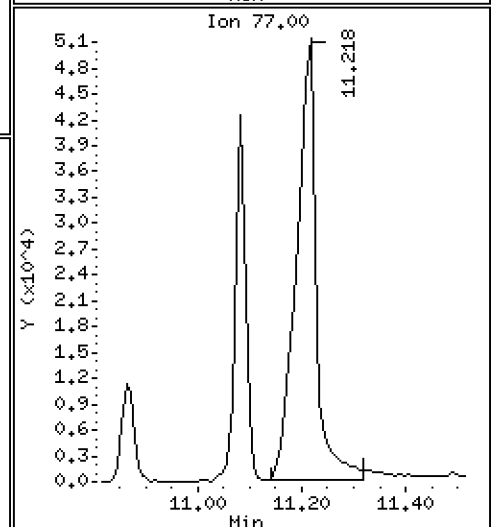
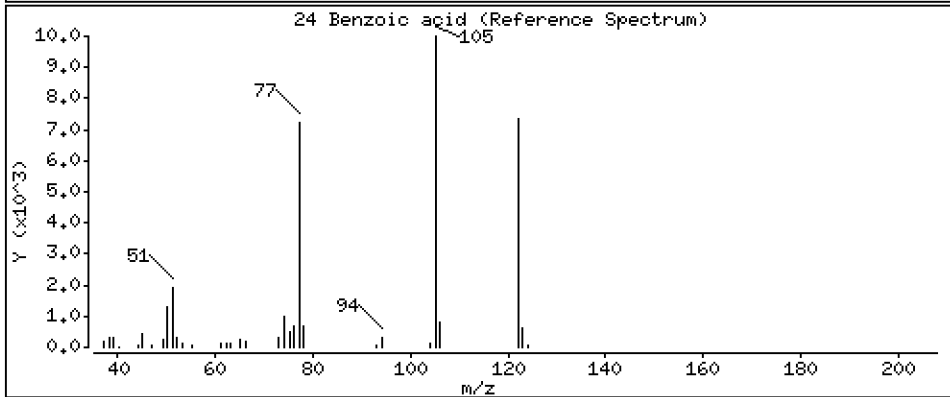
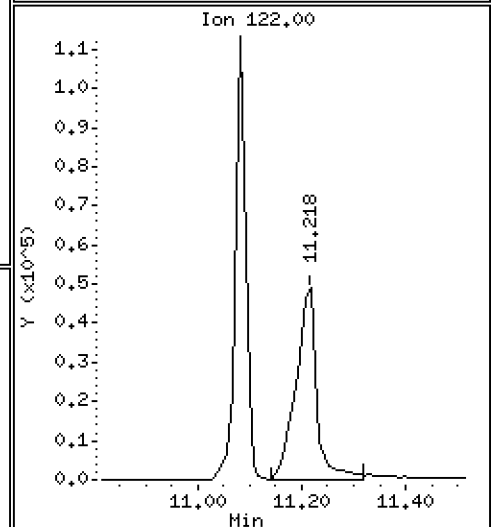
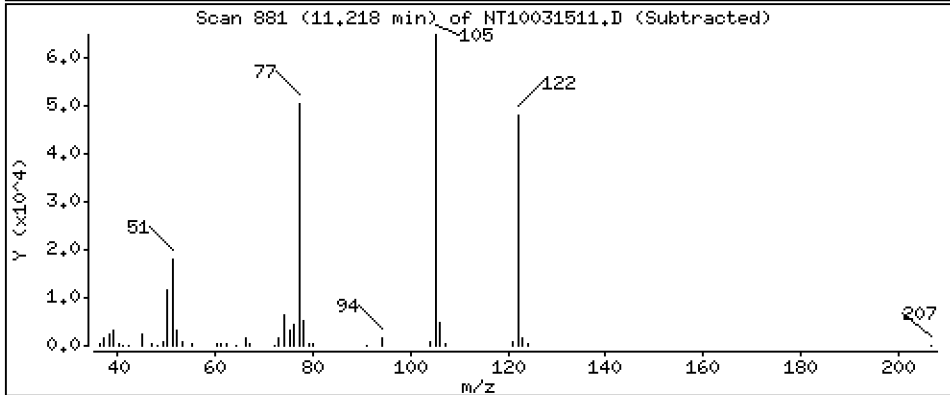
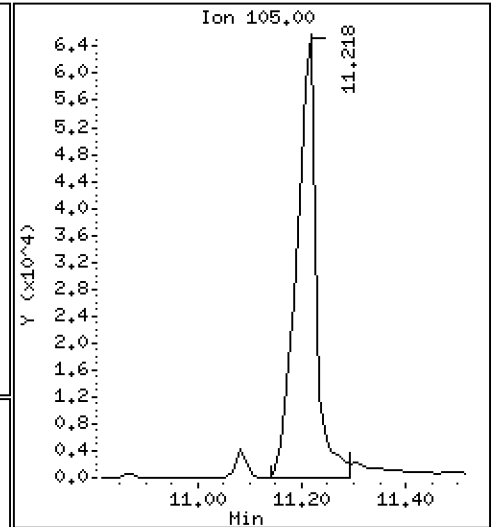
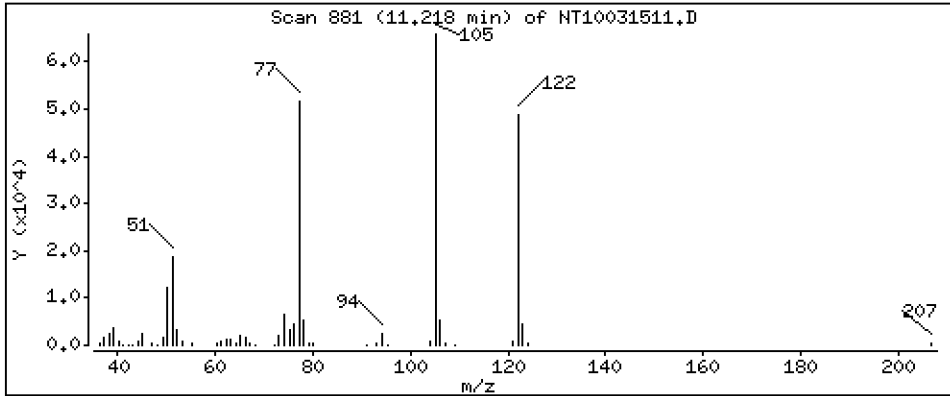
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

24 Benzoic acid

Concentration: 5,952 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

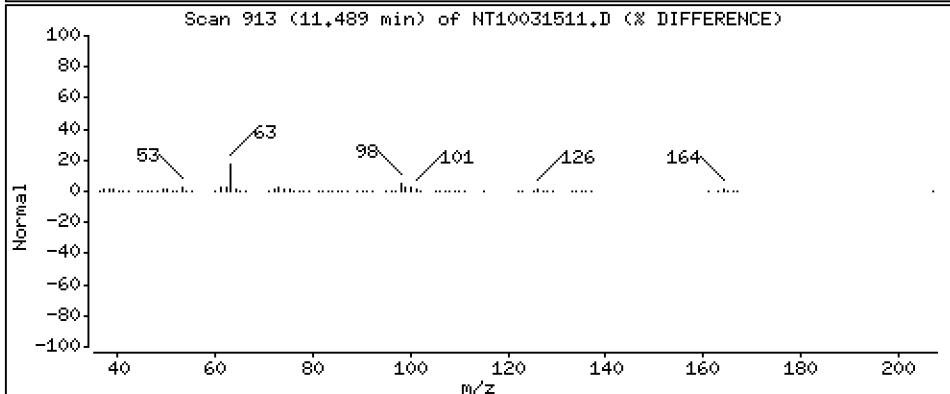
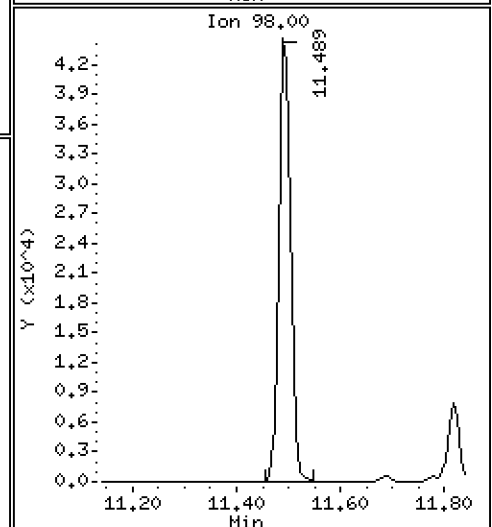
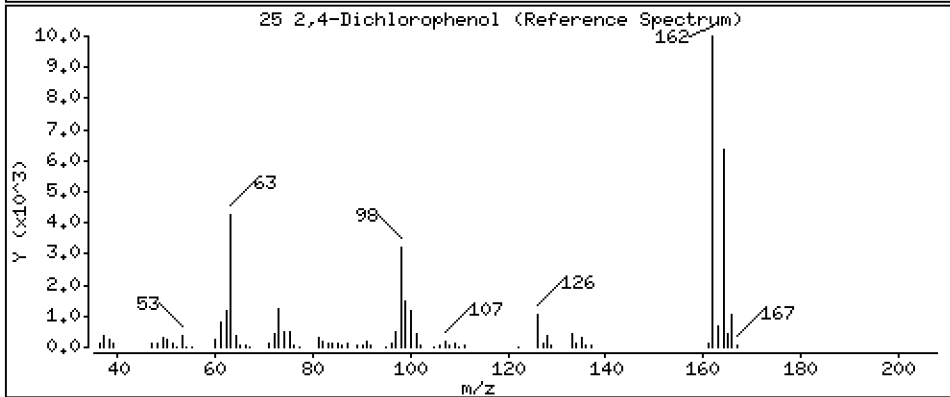
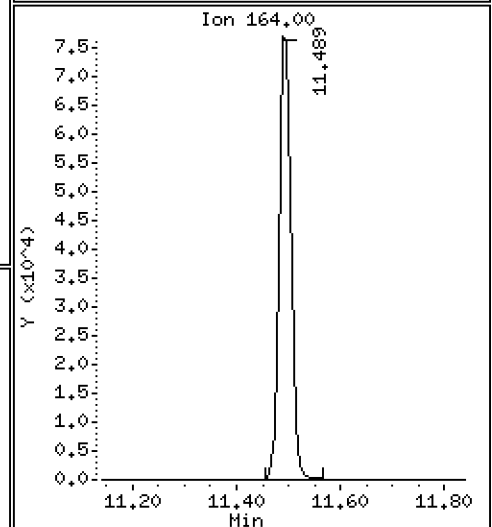
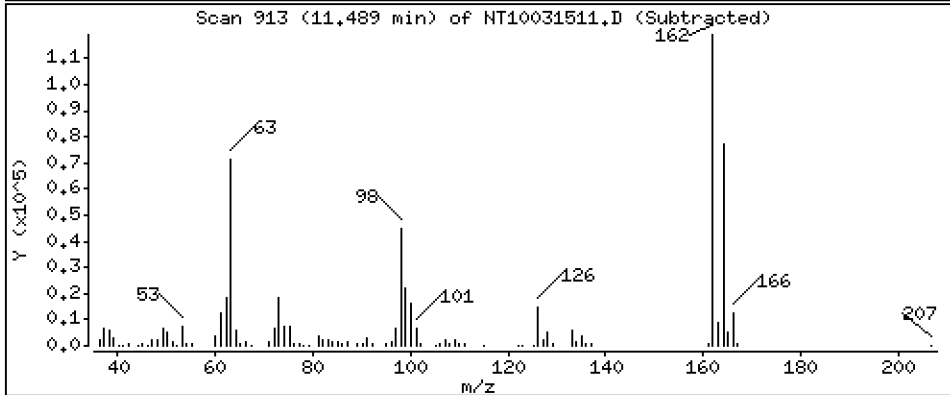
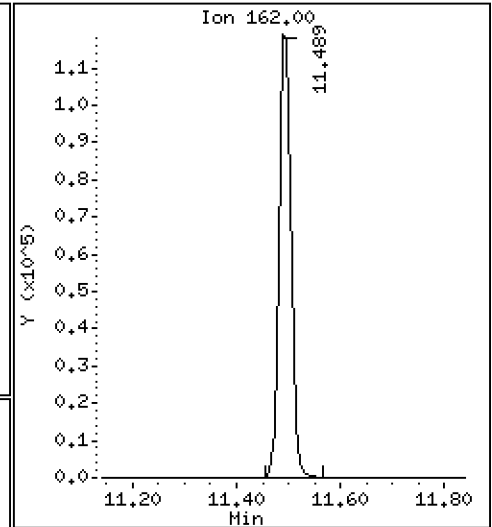
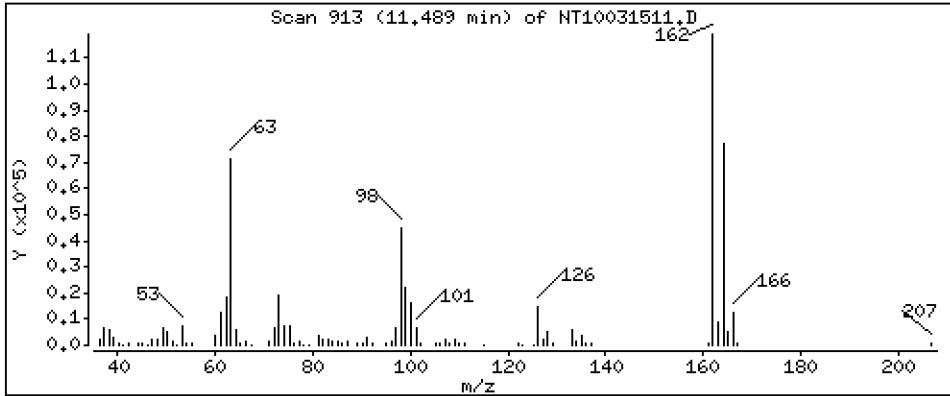
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 4,703 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

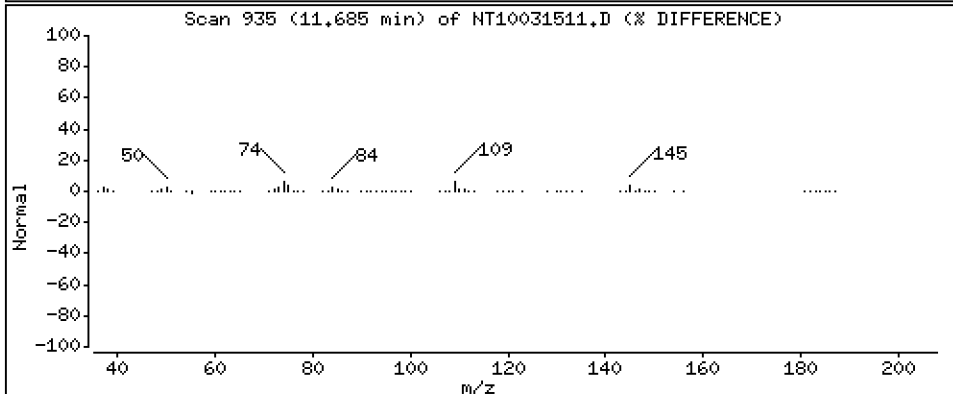
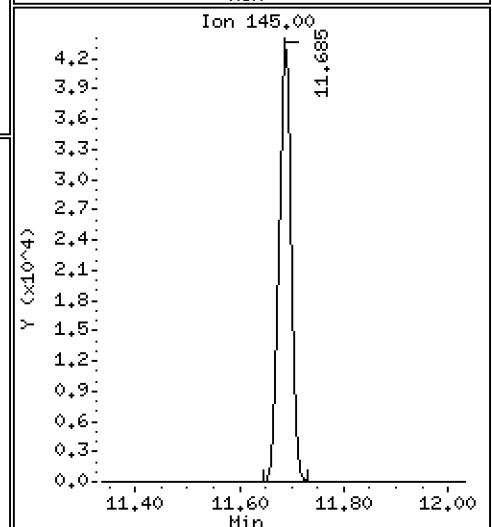
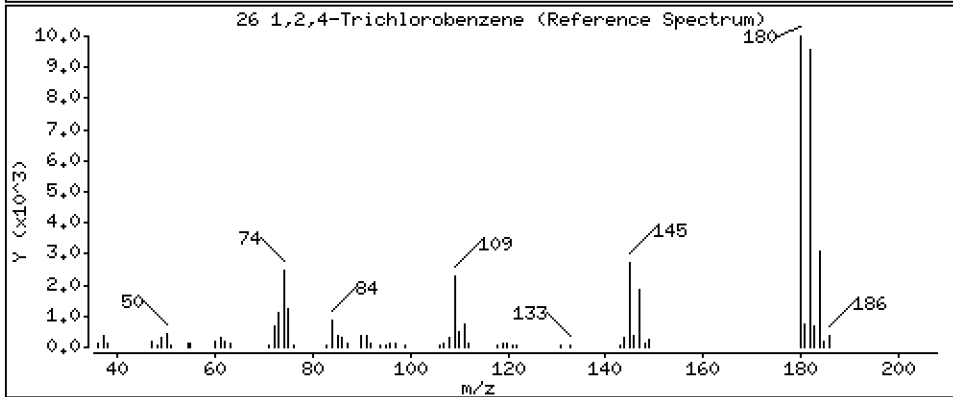
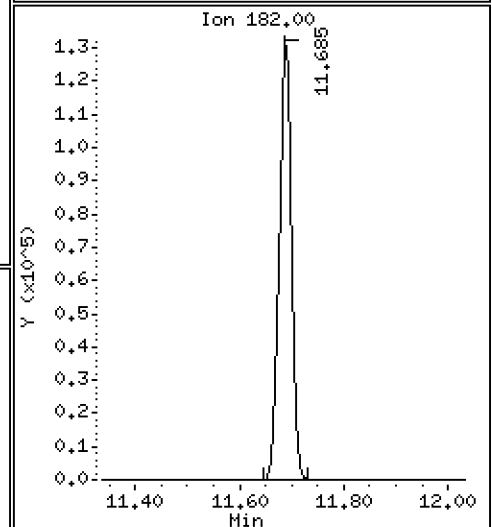
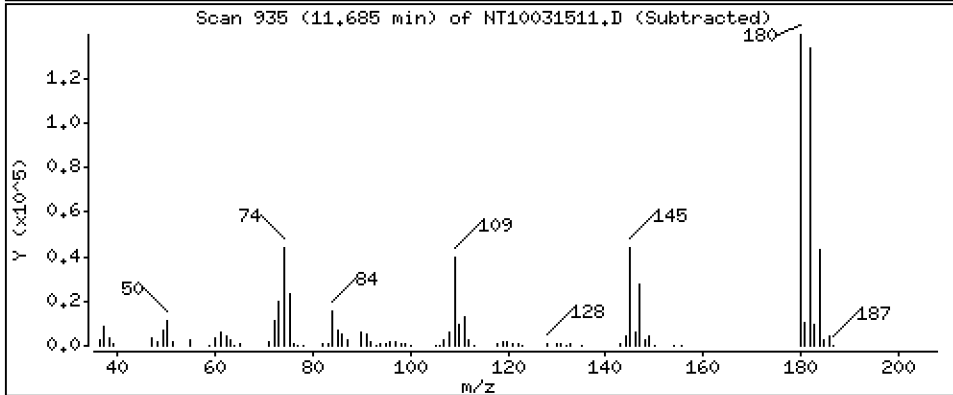
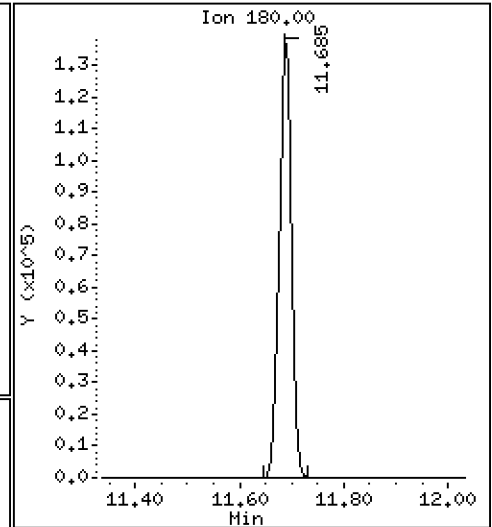
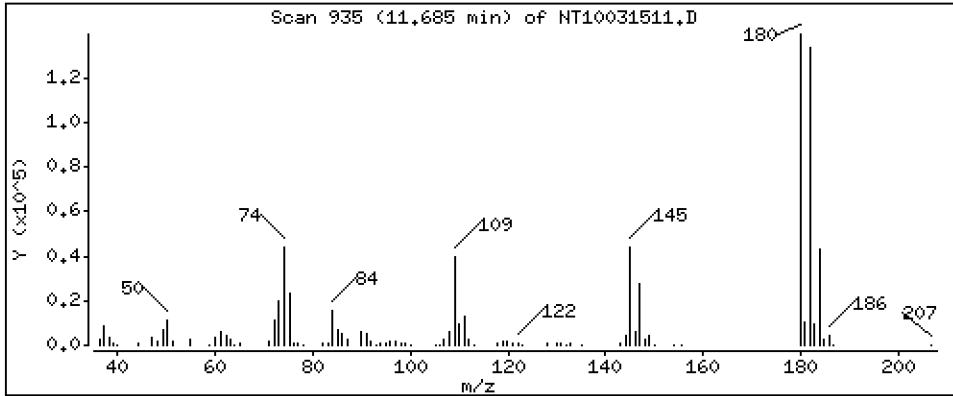
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 4,554 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

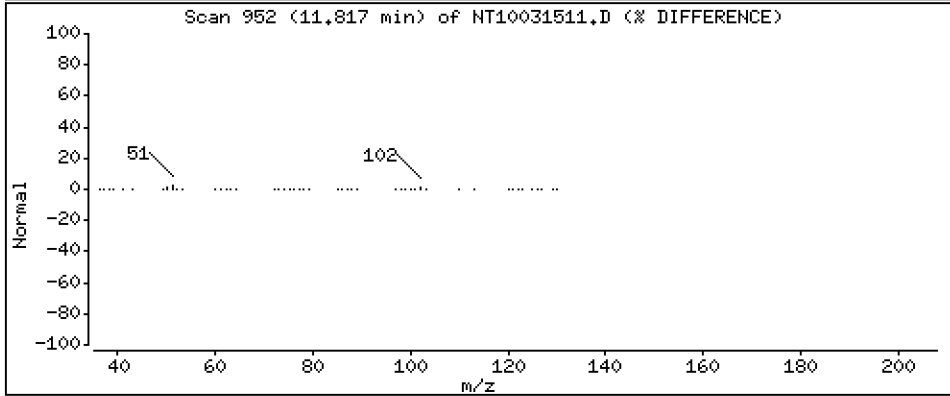
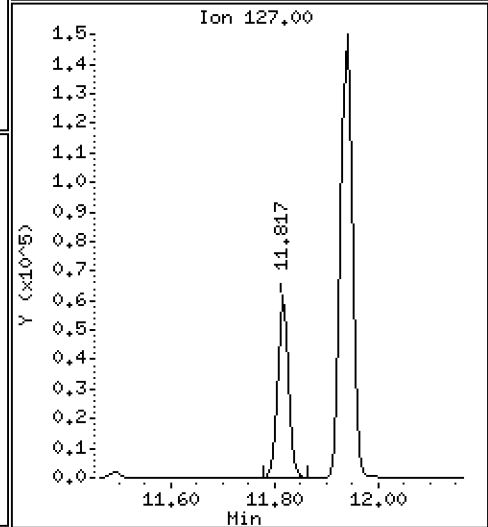
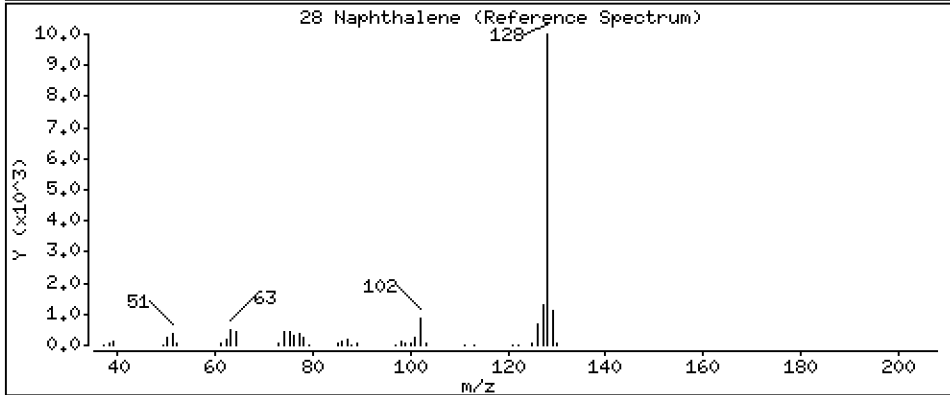
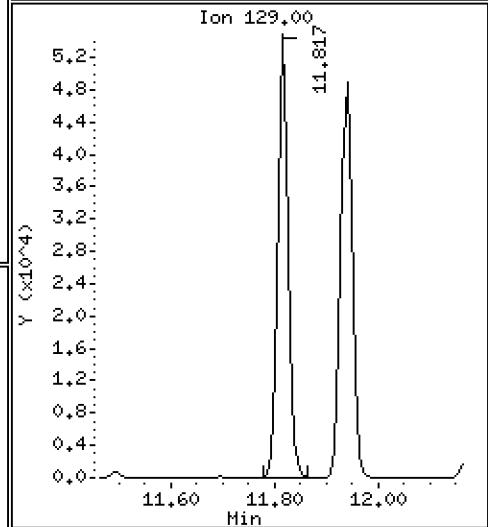
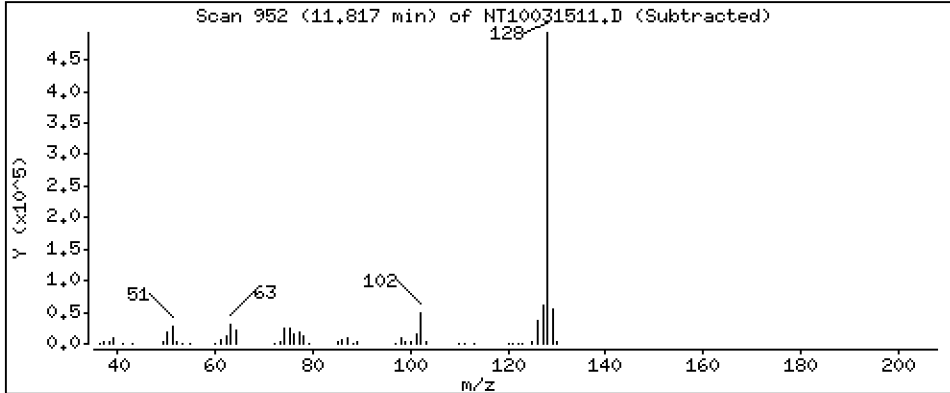
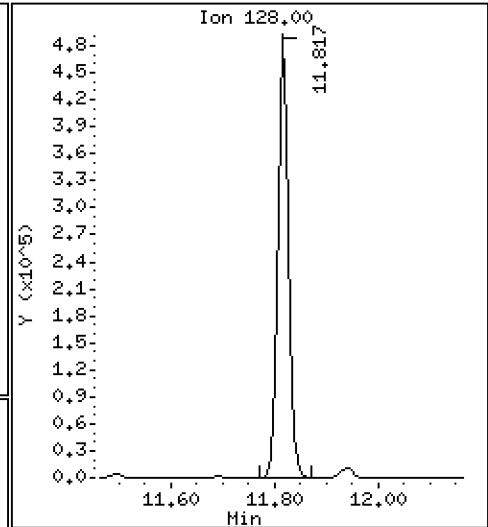
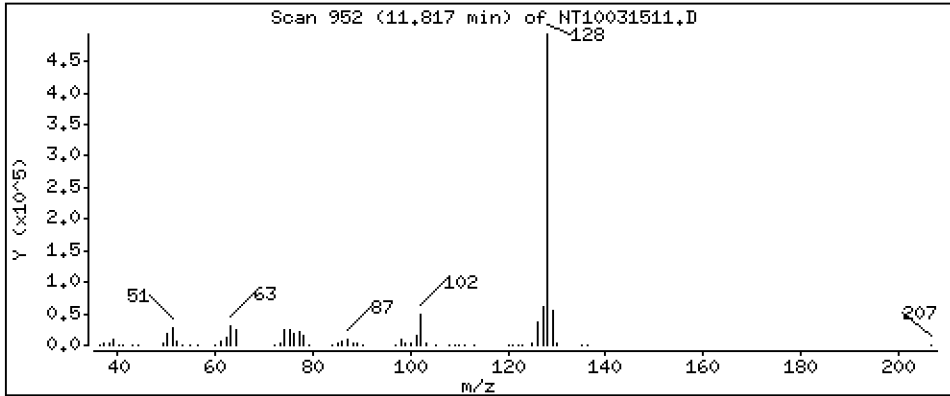
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 4,717 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

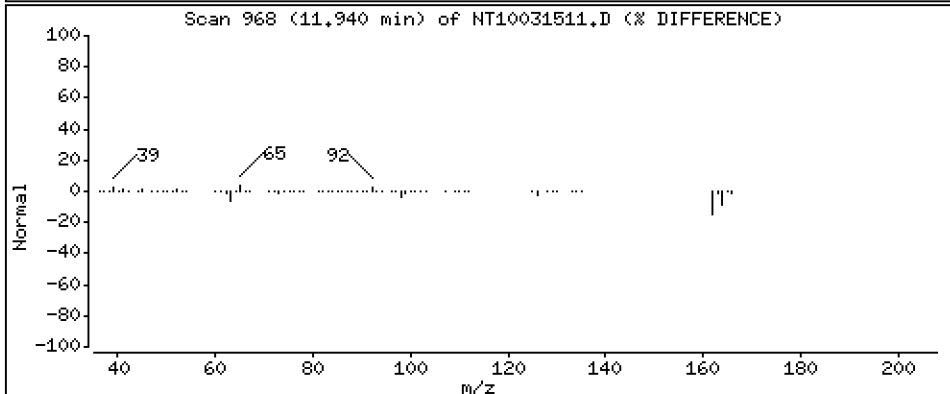
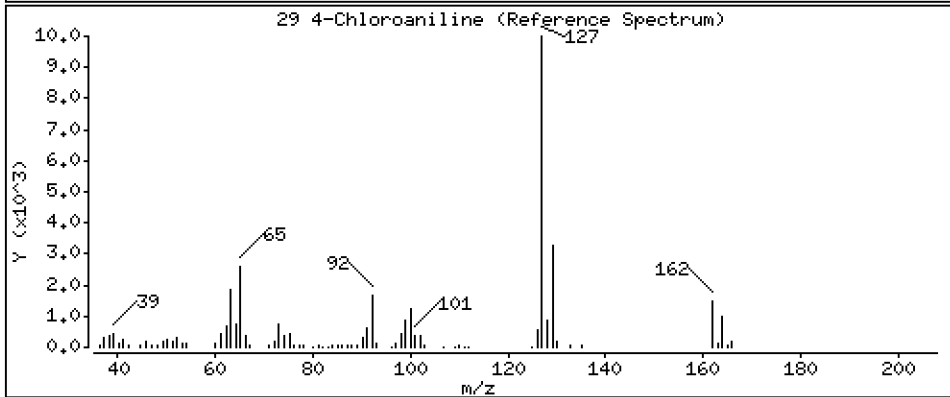
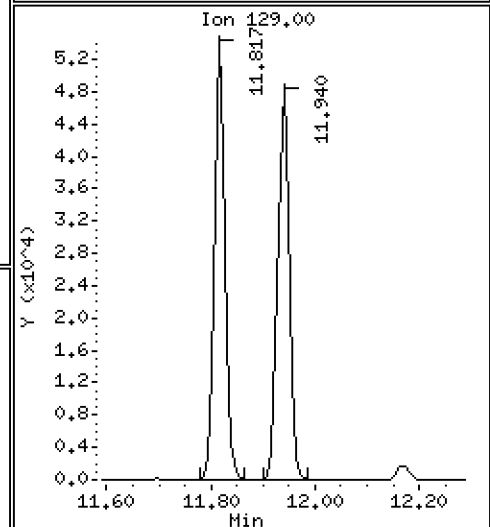
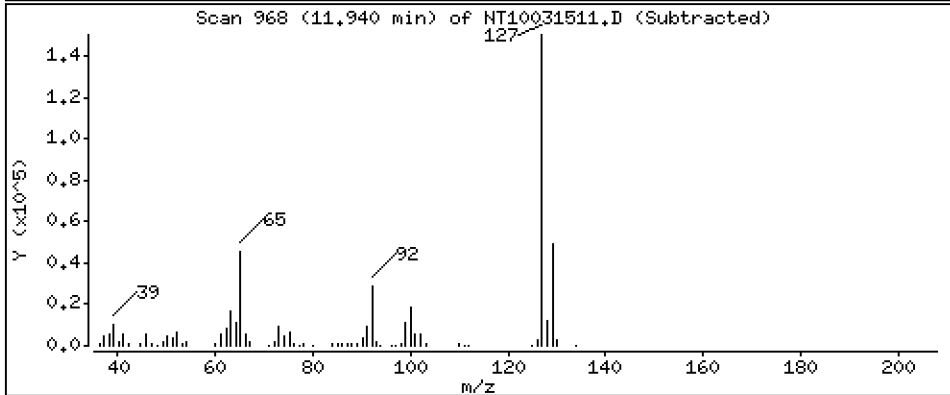
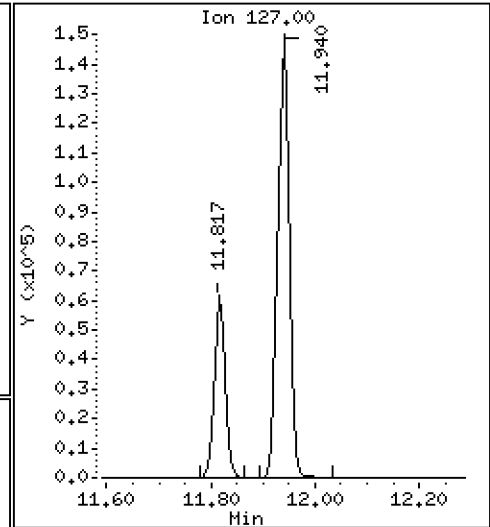
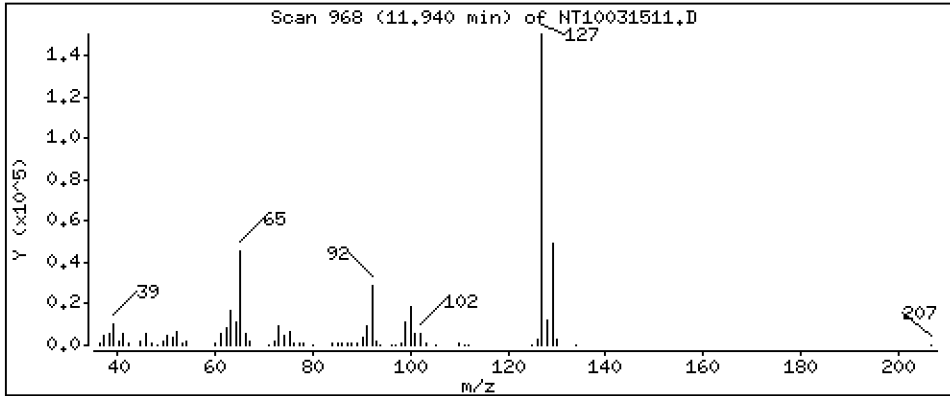
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

29 4-Chloroaniline

Concentration: 3,787 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

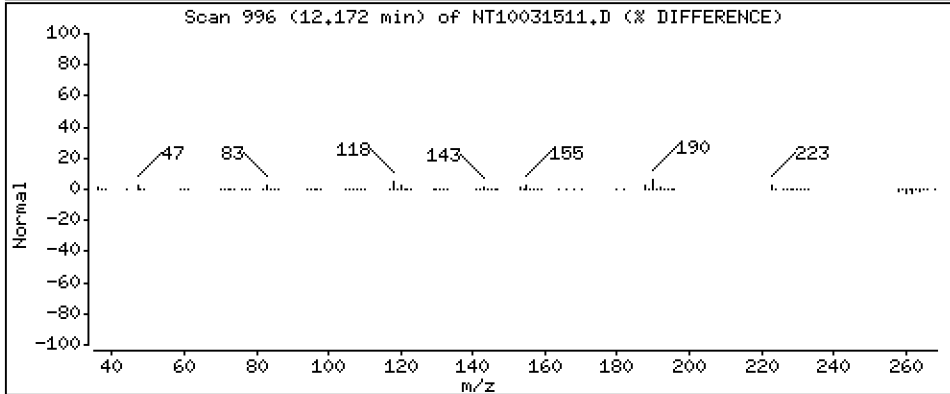
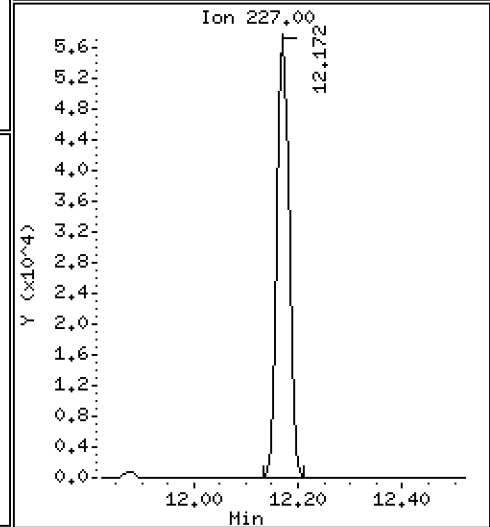
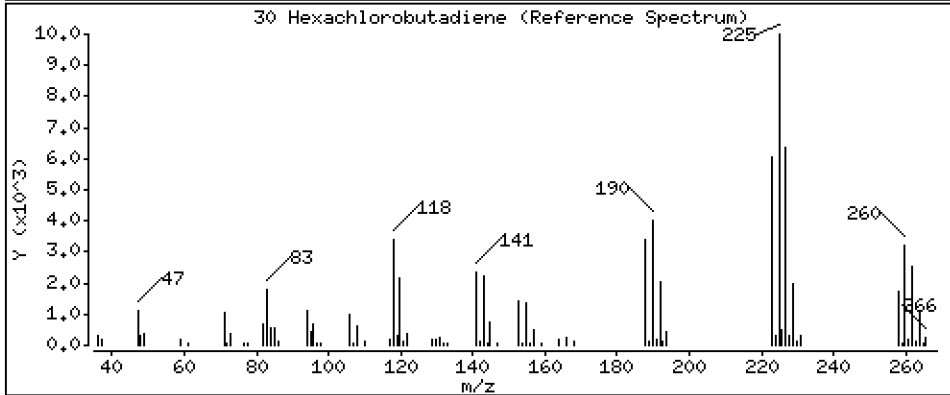
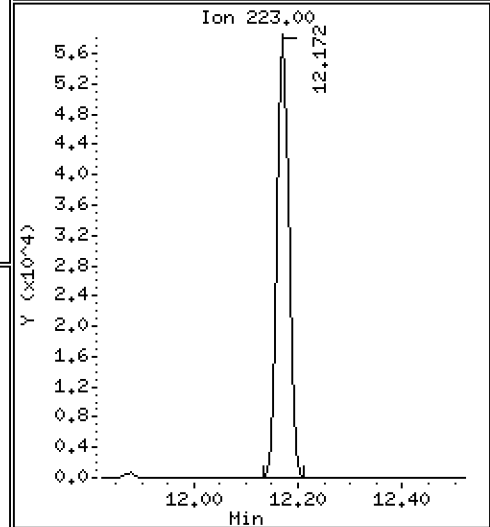
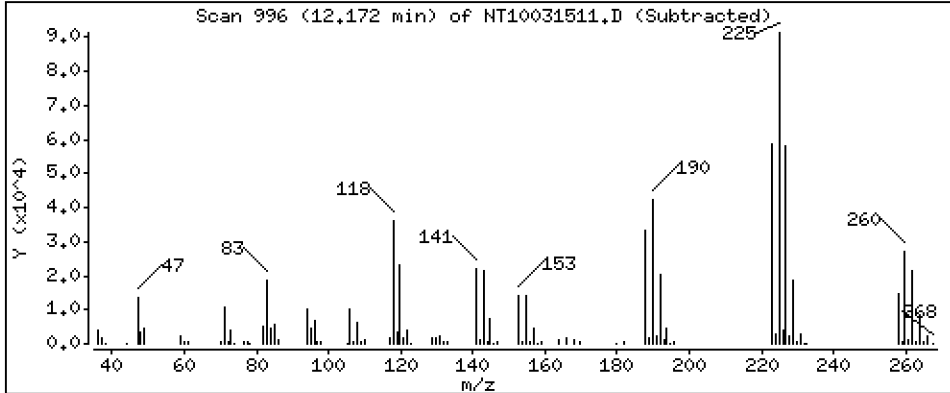
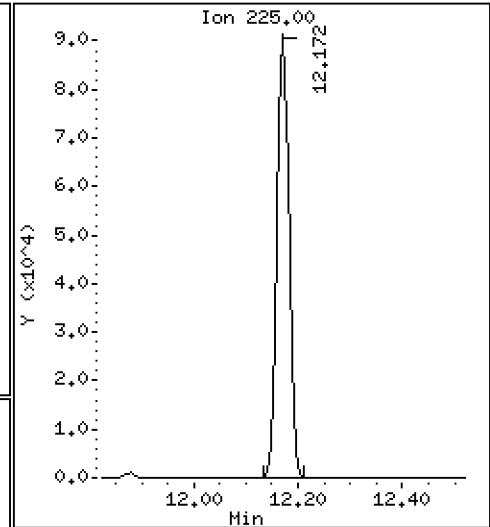
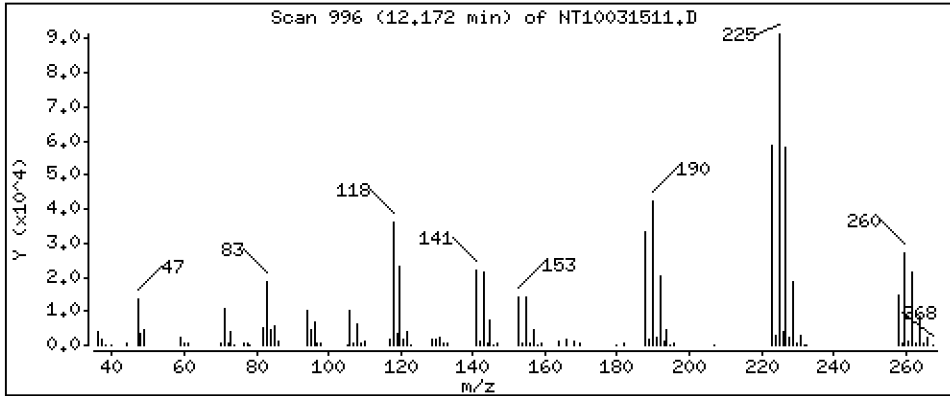
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 4,834 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

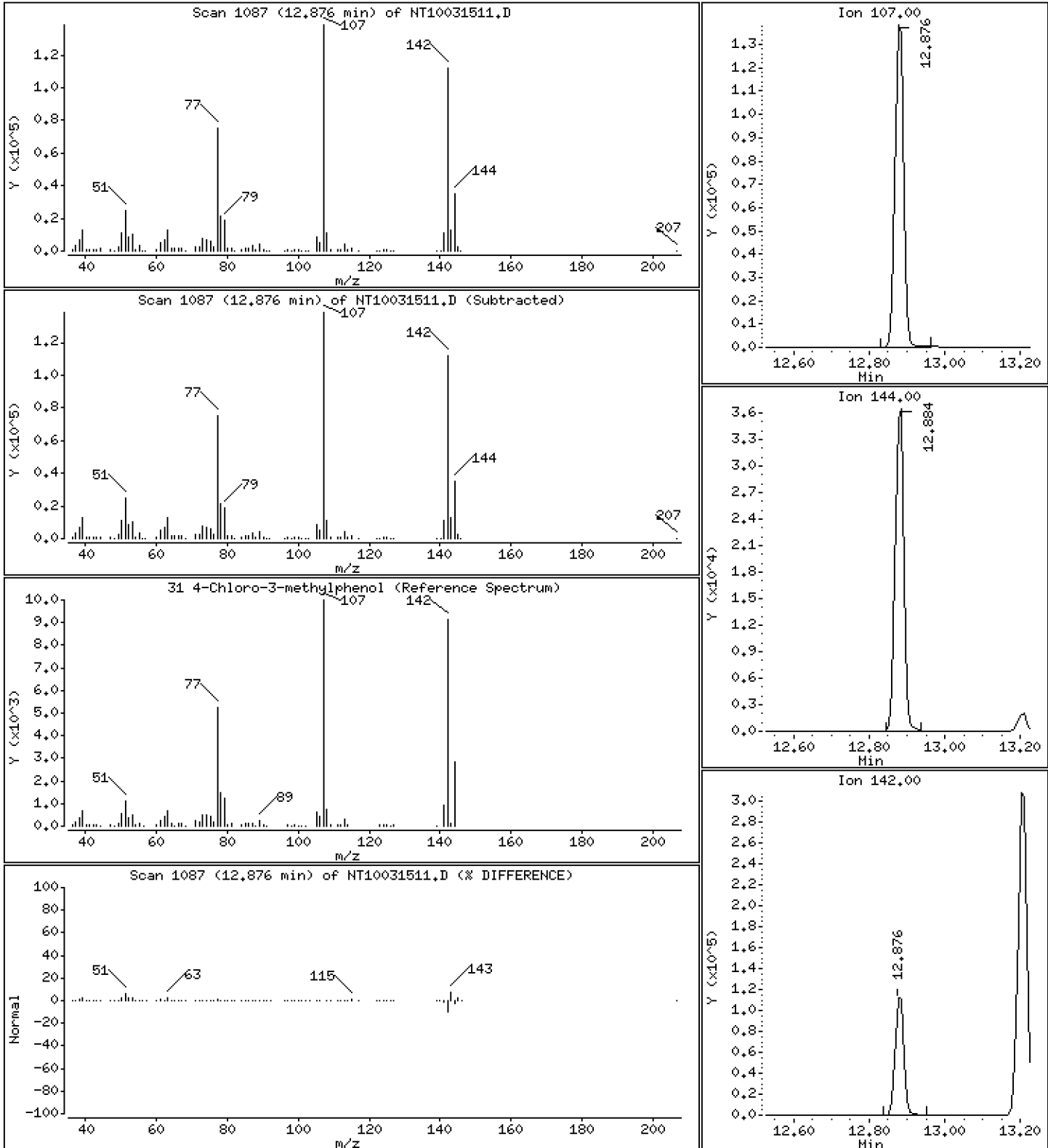
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

31 4-Chloro-3-methylphenol

Concentration: 4.640 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

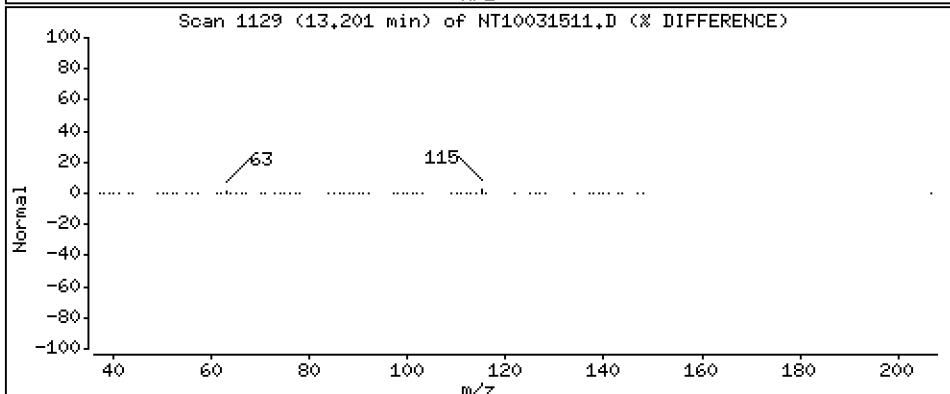
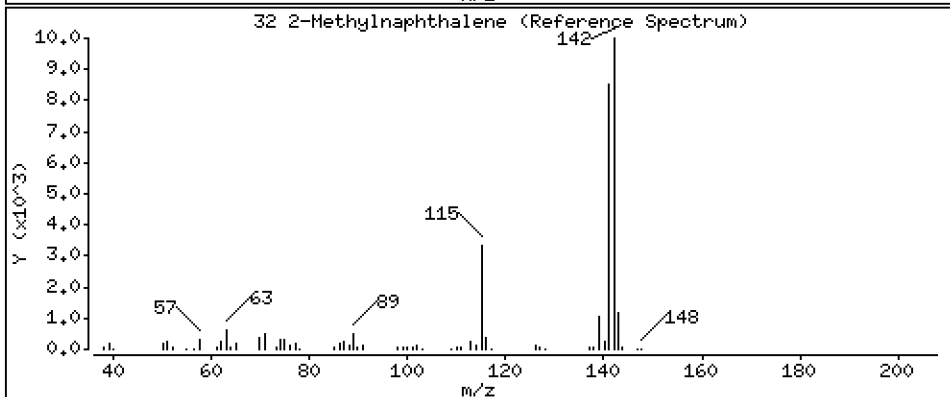
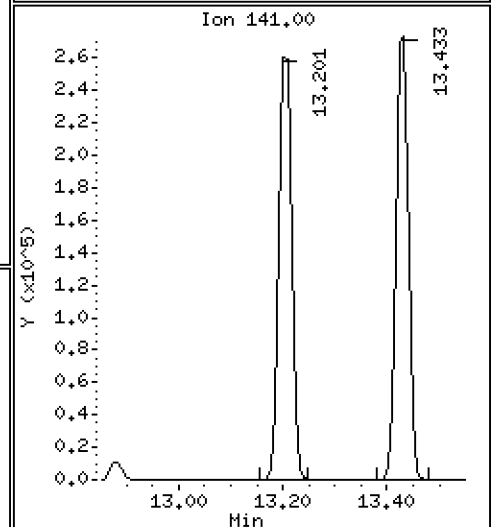
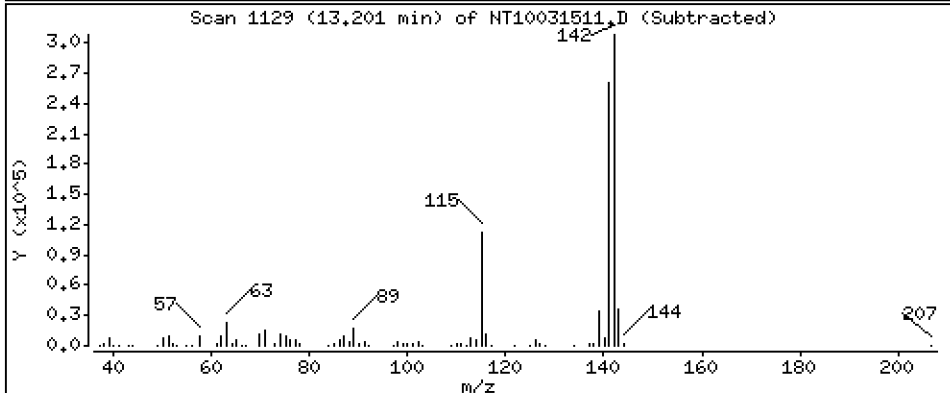
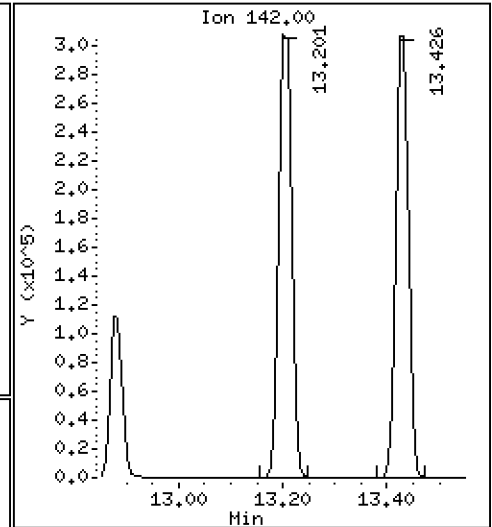
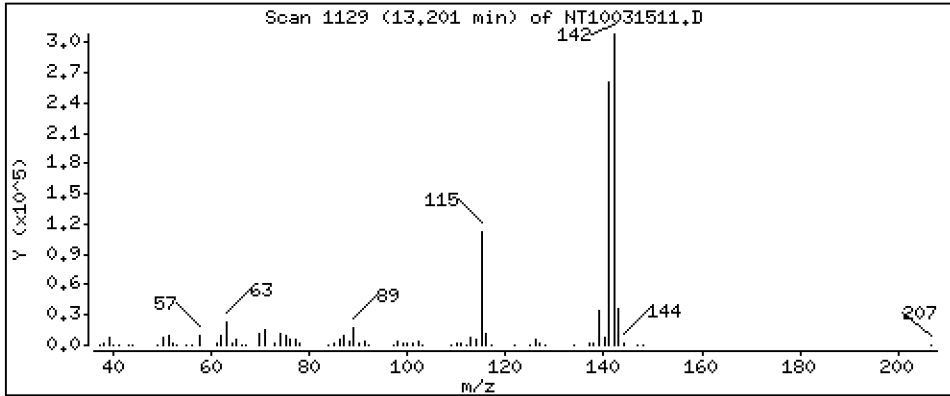
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 4,596 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

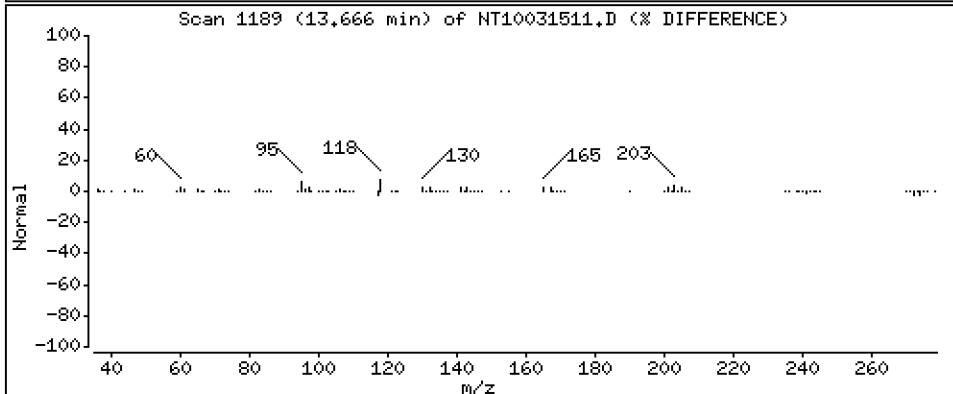
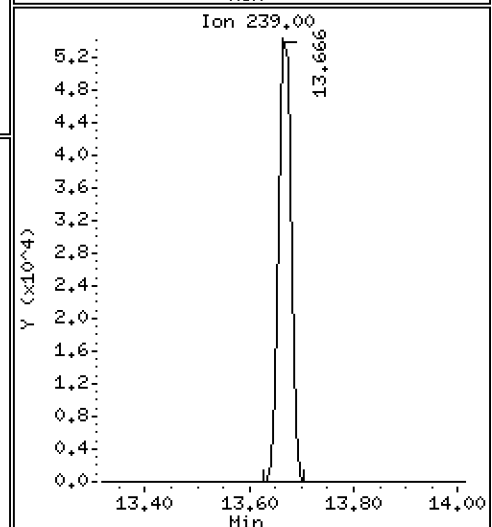
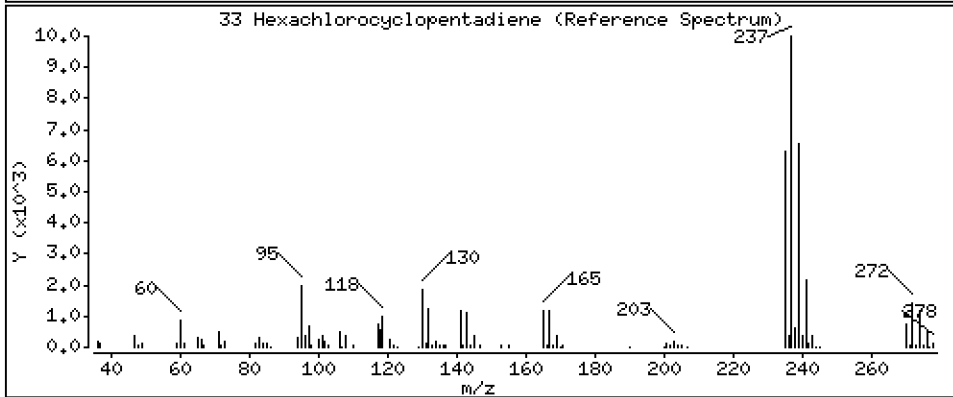
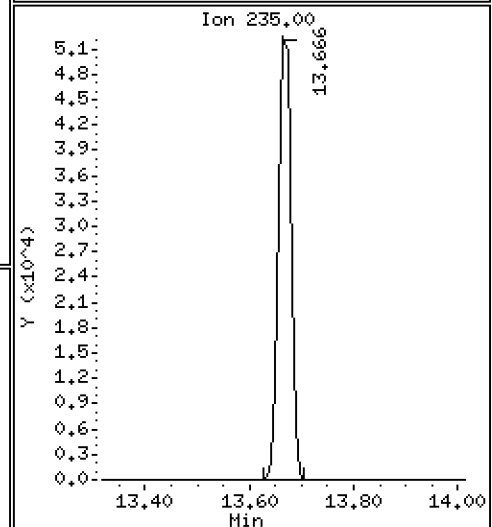
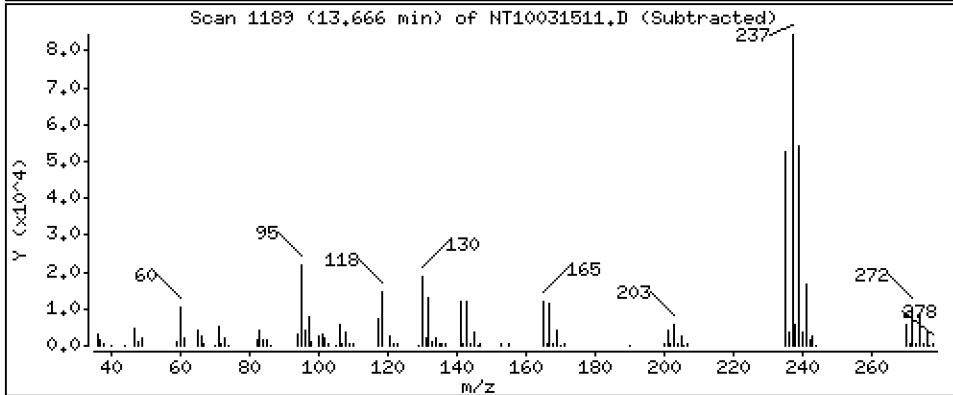
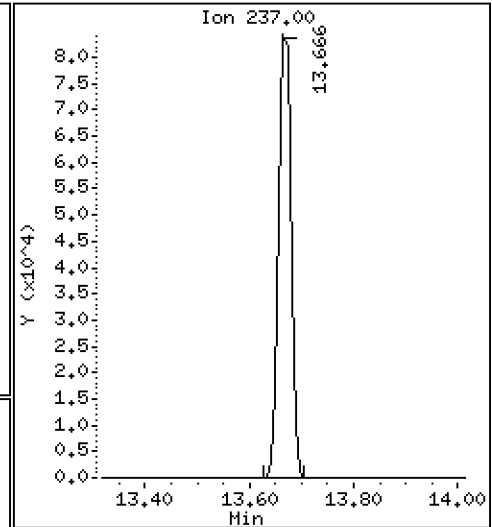
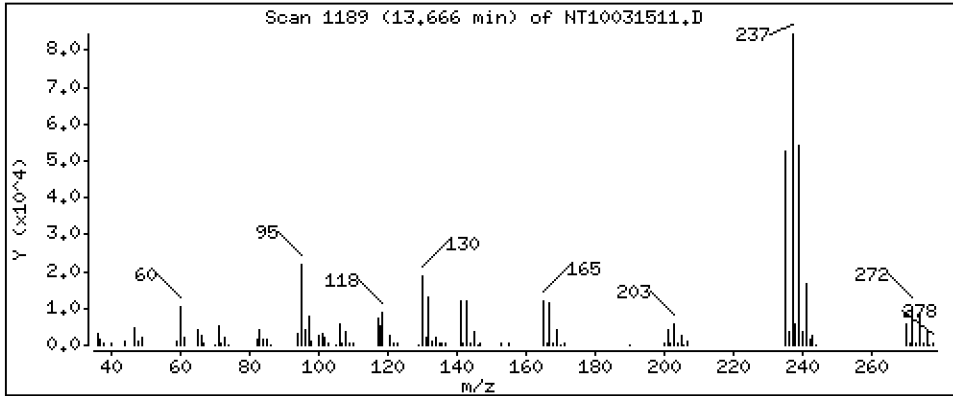
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

33 Hexachlorocyclopentadiene

Concentration: 4.729 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

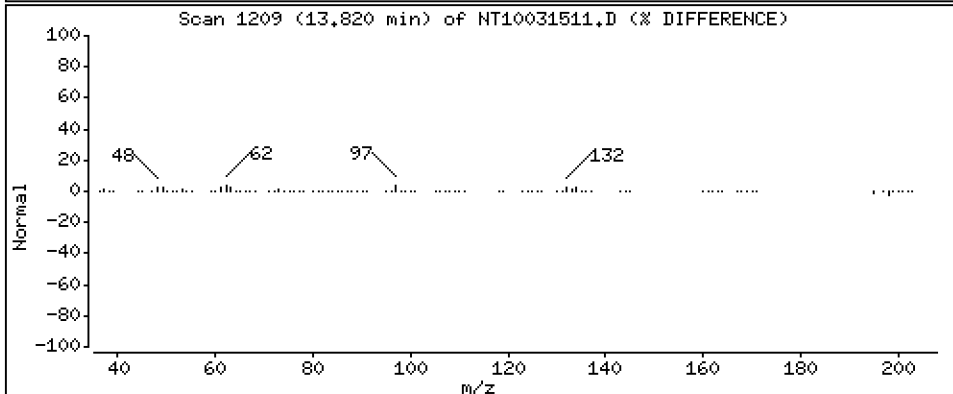
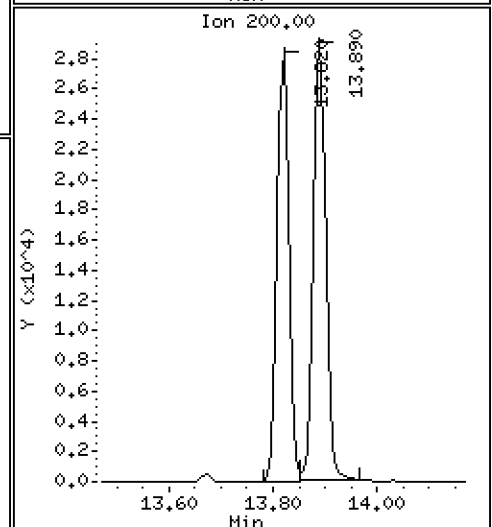
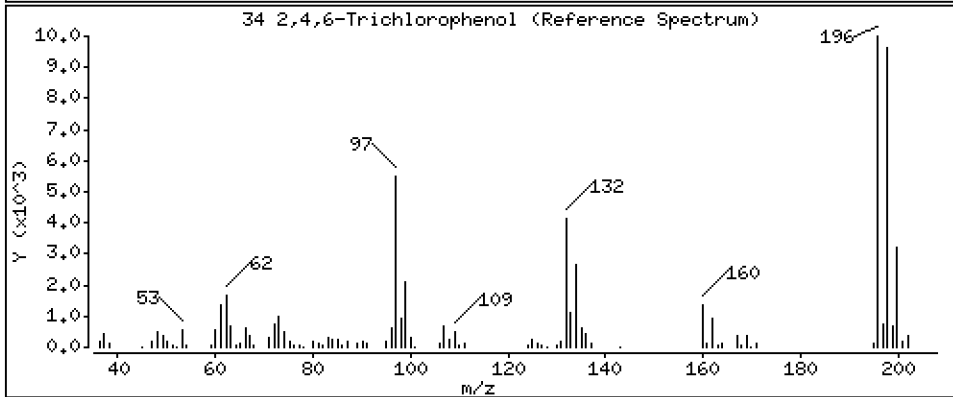
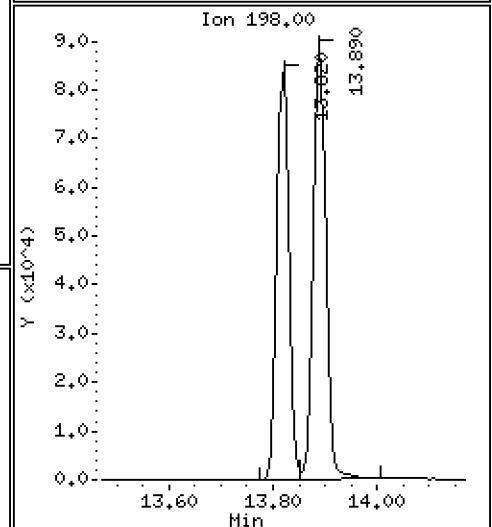
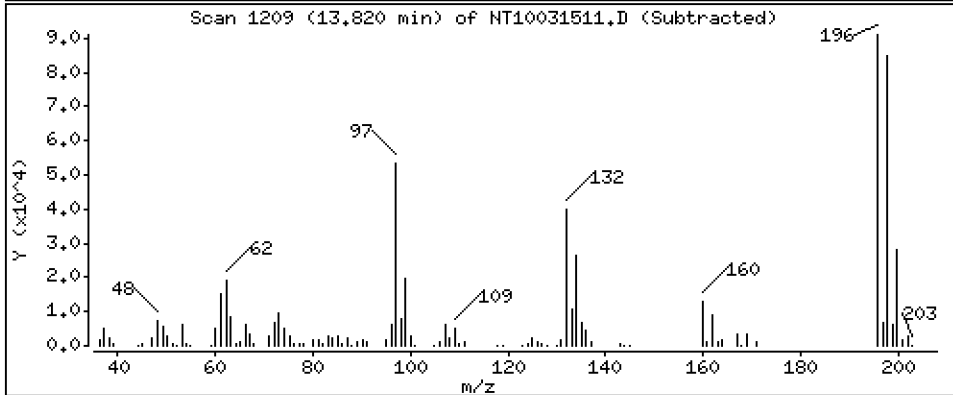
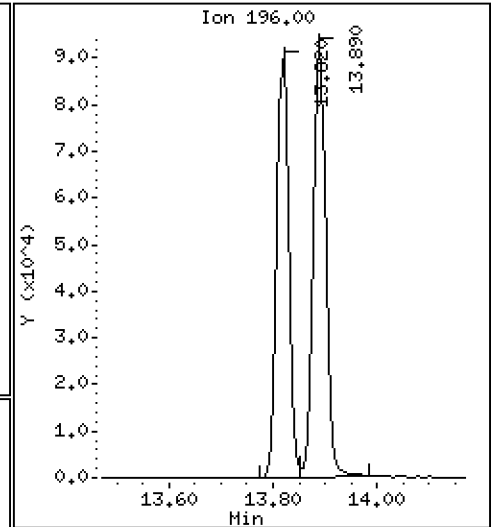
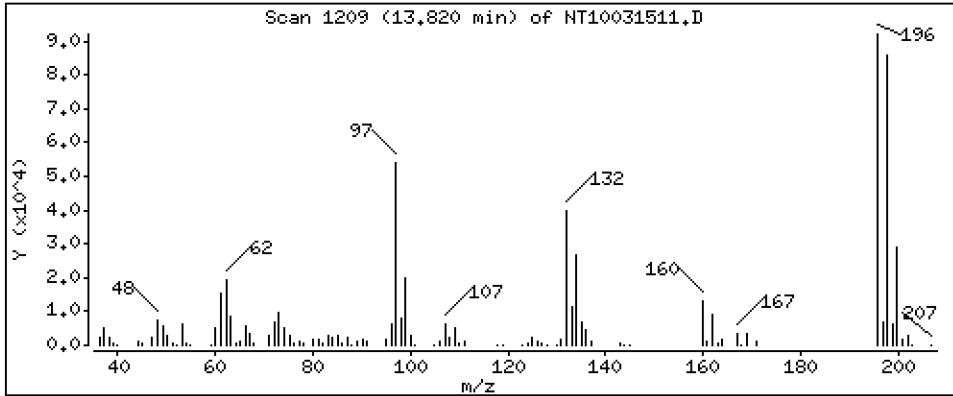
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

34 2,4,6-Trichlorophenol

Concentration: 4,596 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

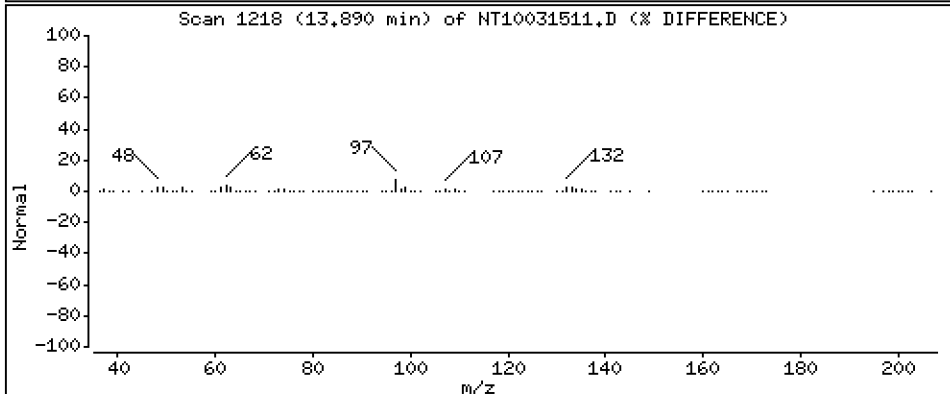
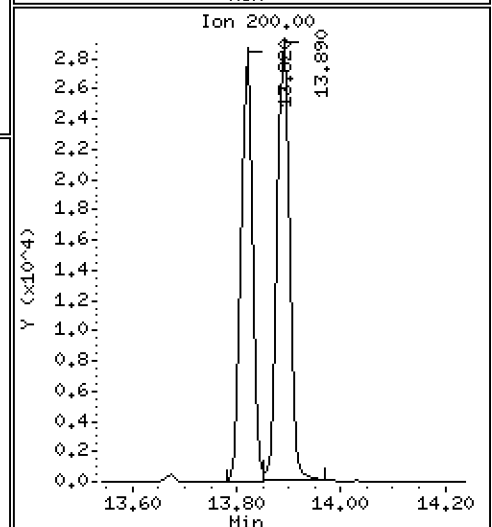
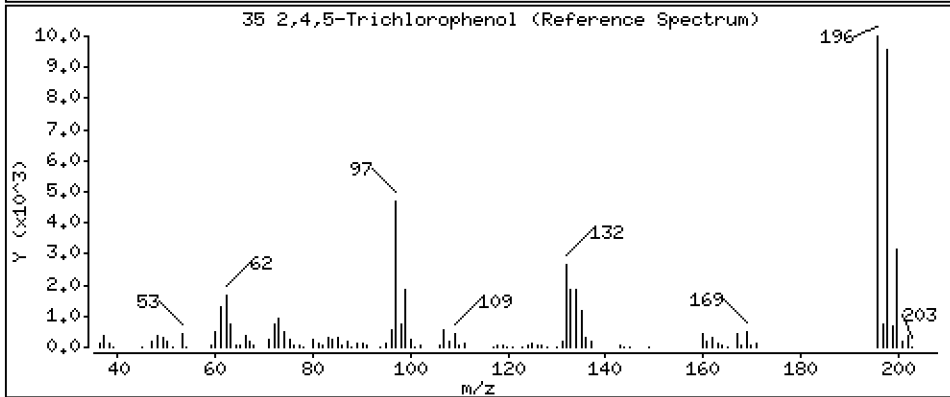
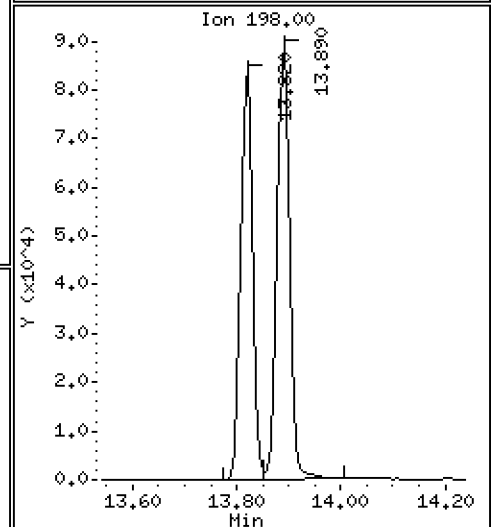
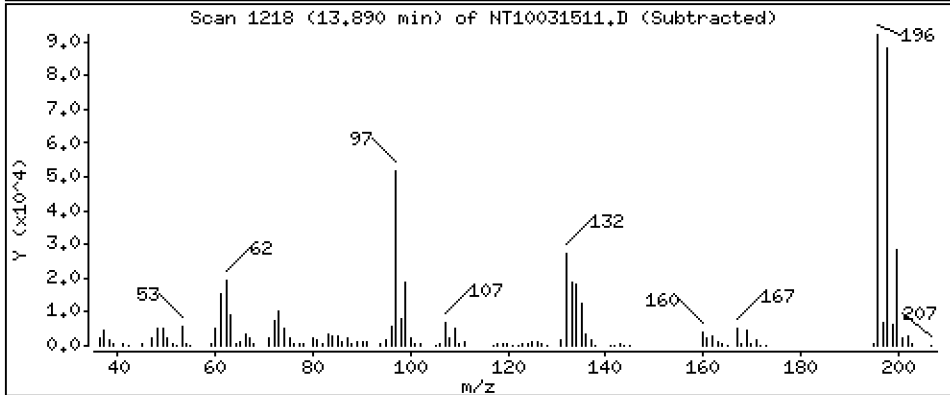
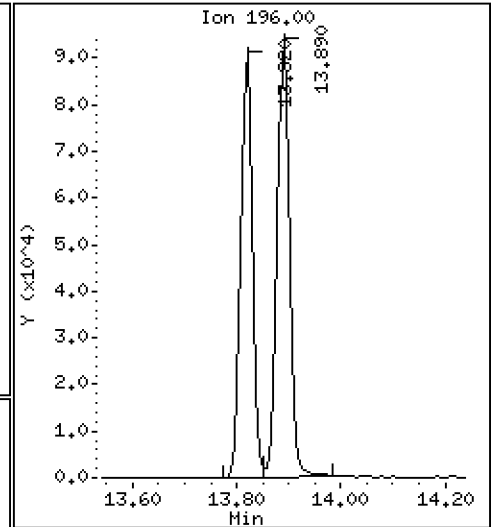
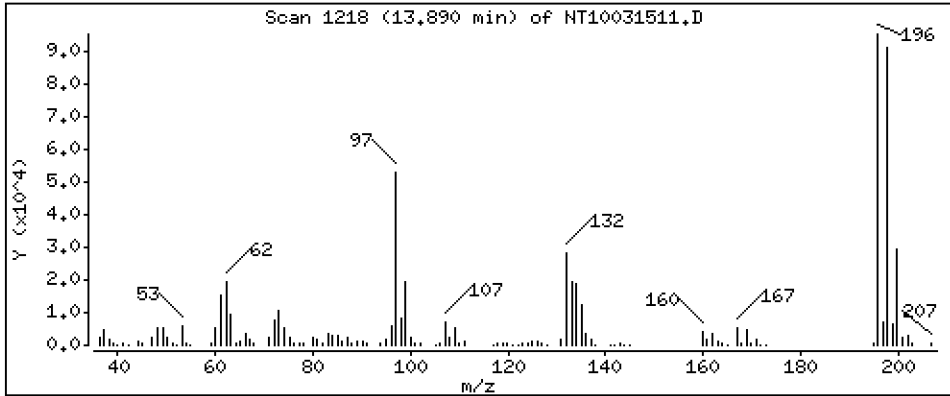
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

35 2,4,5-Trichlorophenol

Concentration: 4,409 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

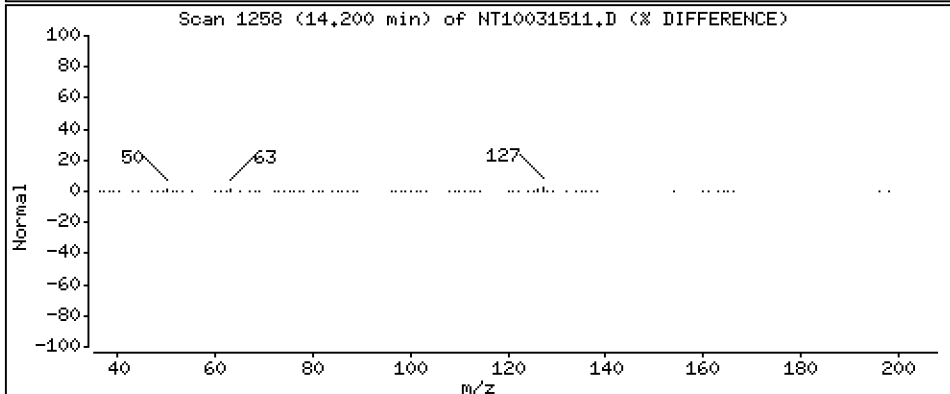
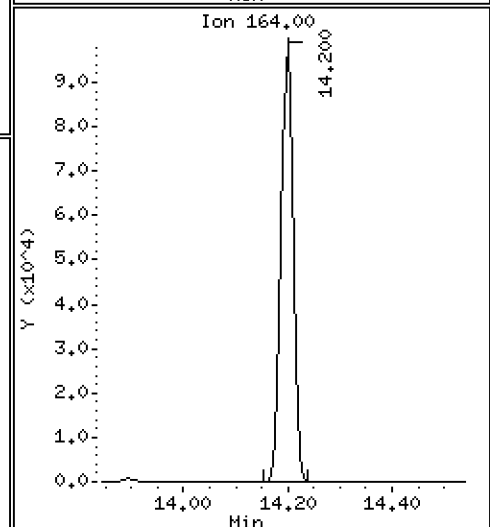
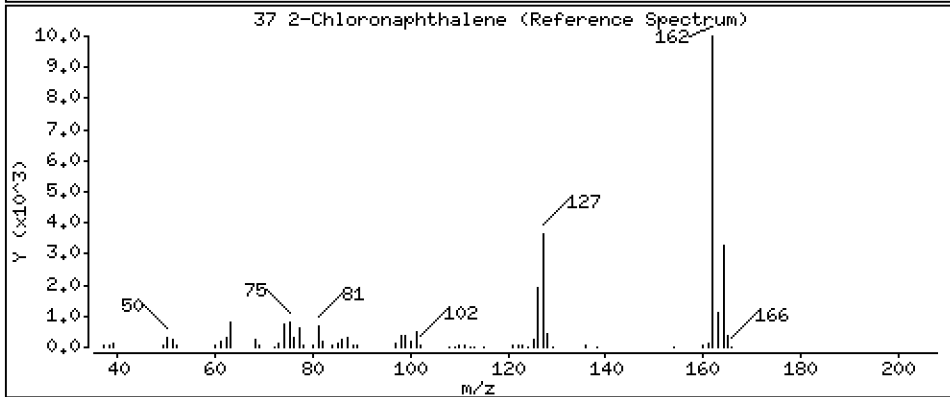
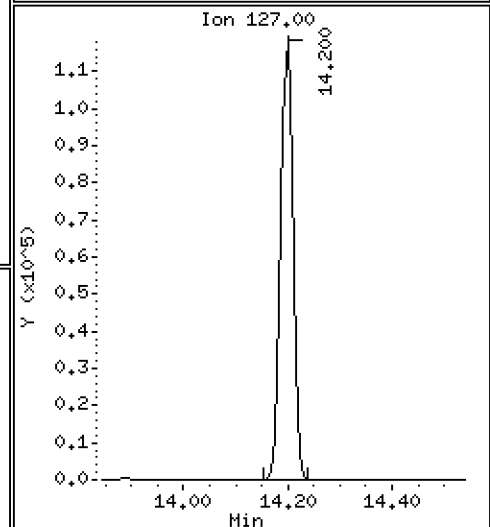
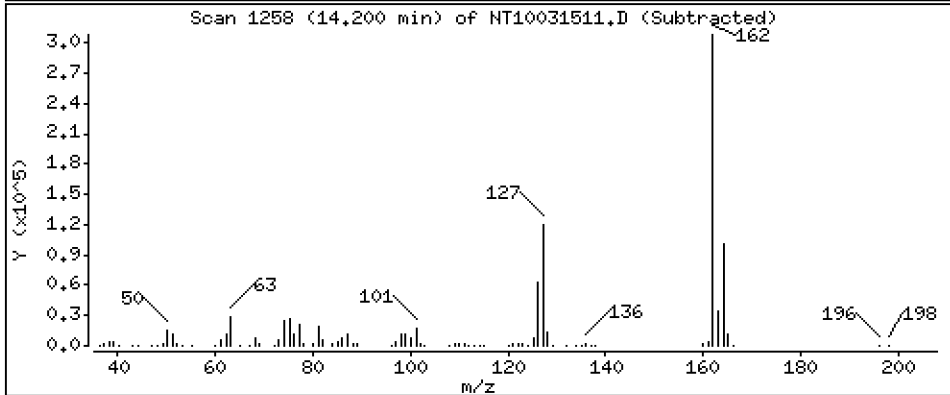
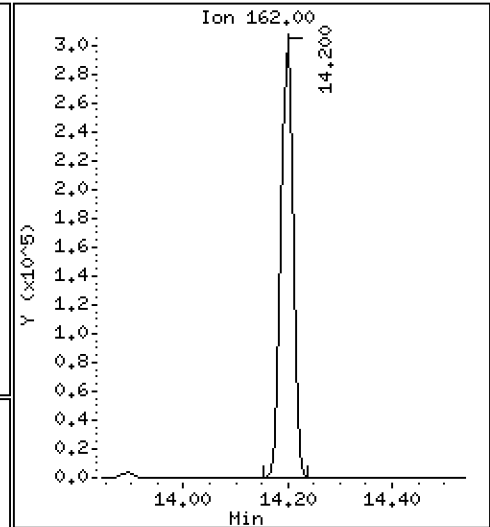
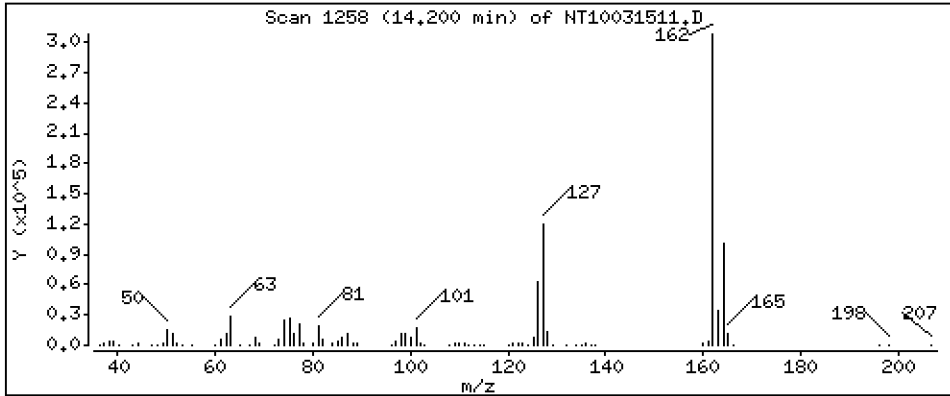
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

37 2-Chloronaphthalene

Concentration: 4,796 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

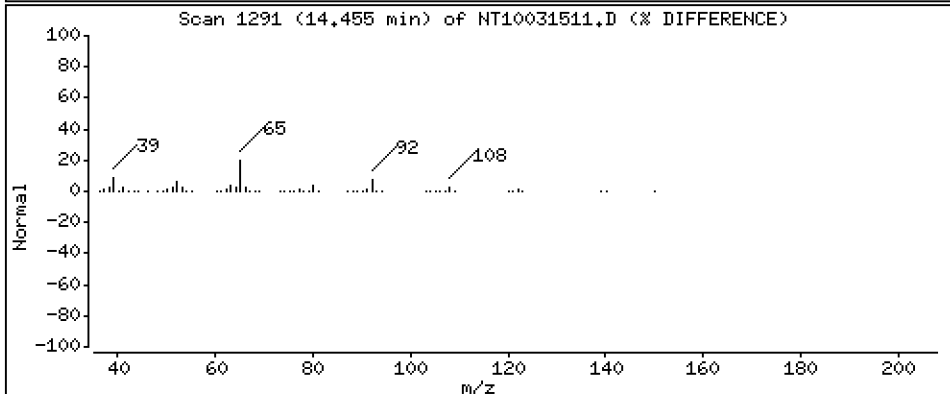
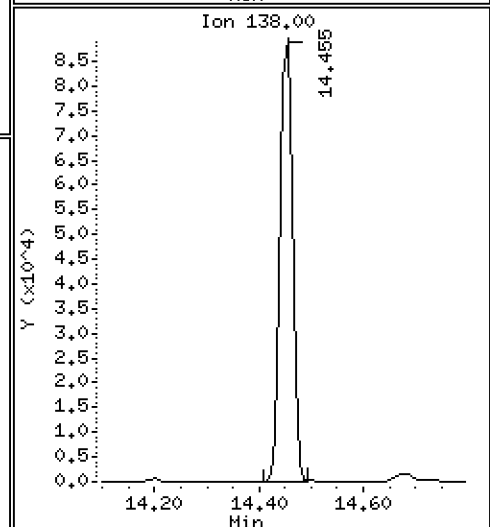
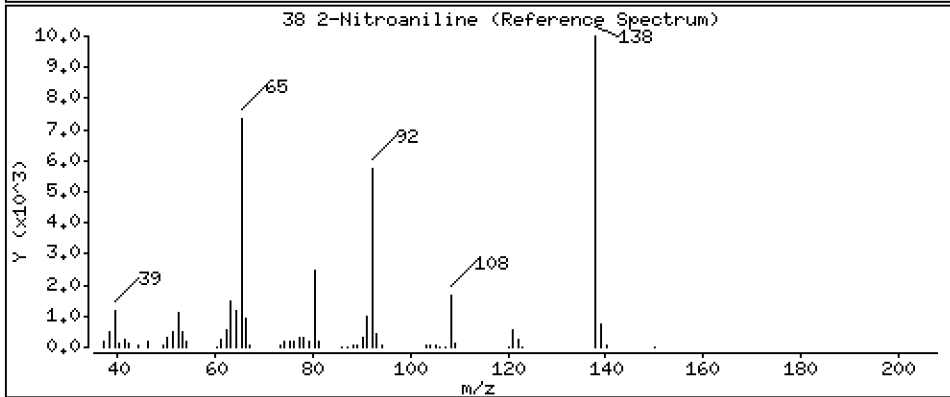
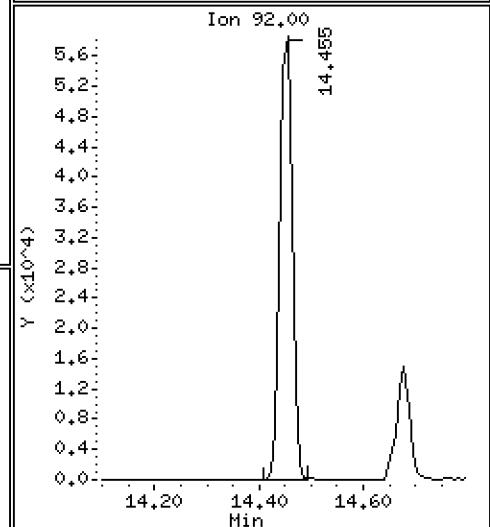
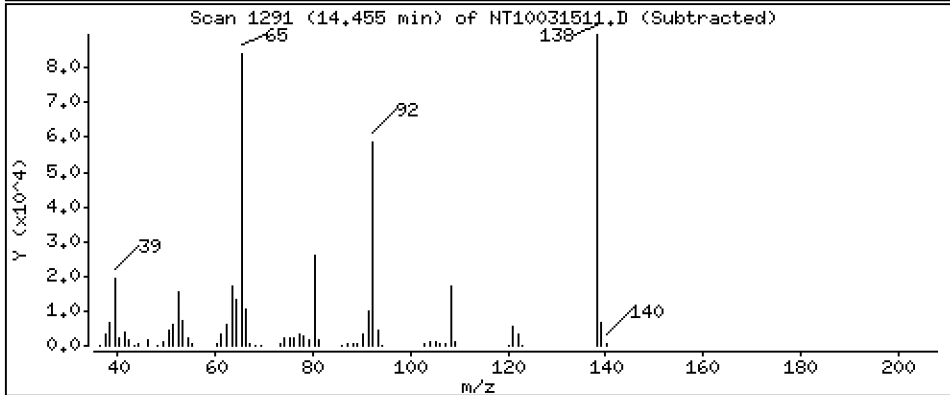
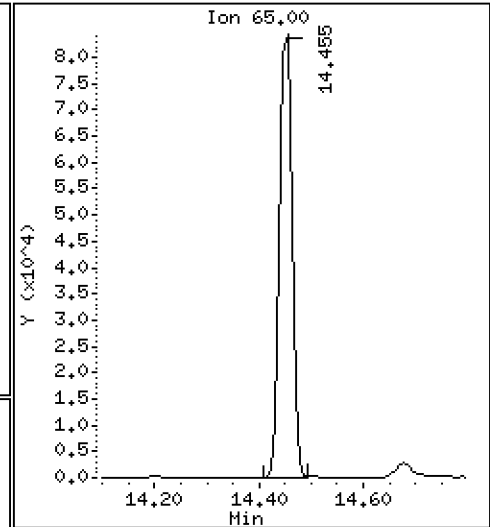
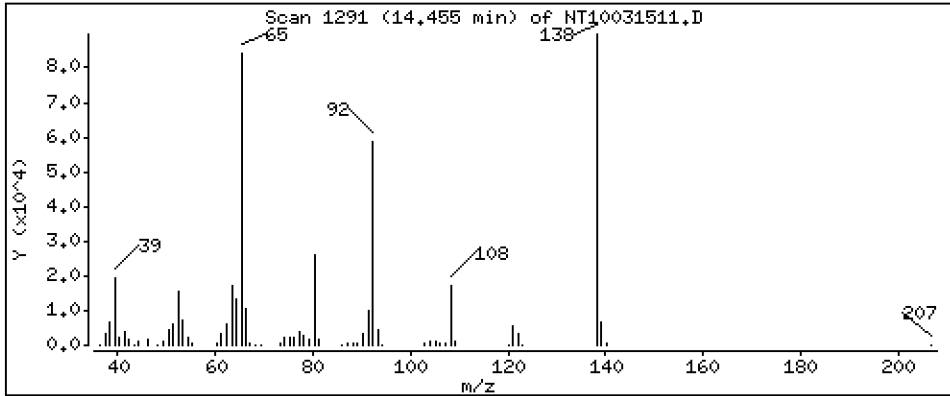
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

38 2-Nitroaniline

Concentration: 4,911 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

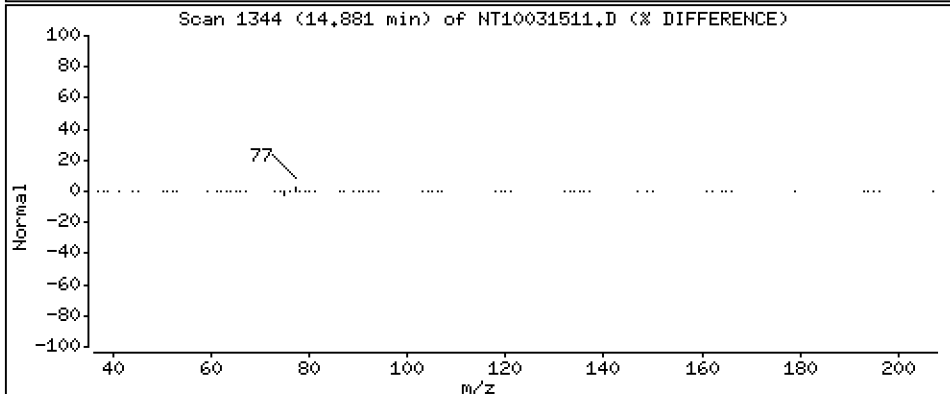
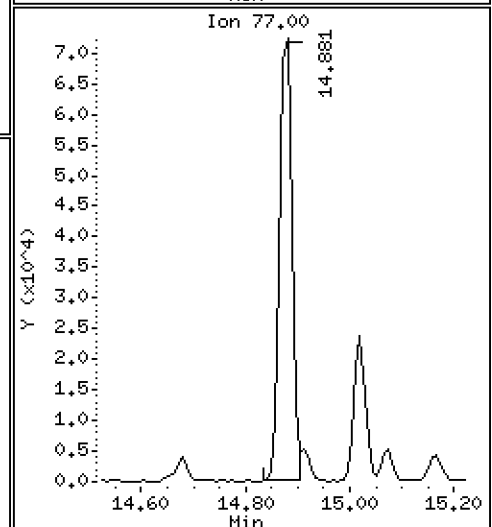
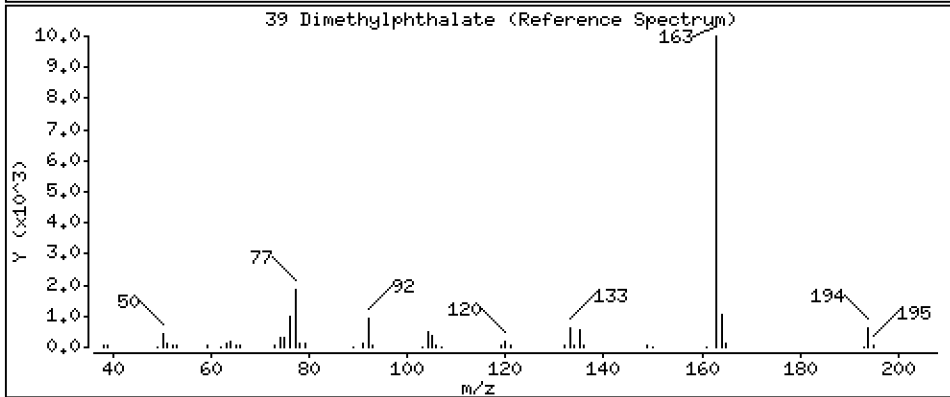
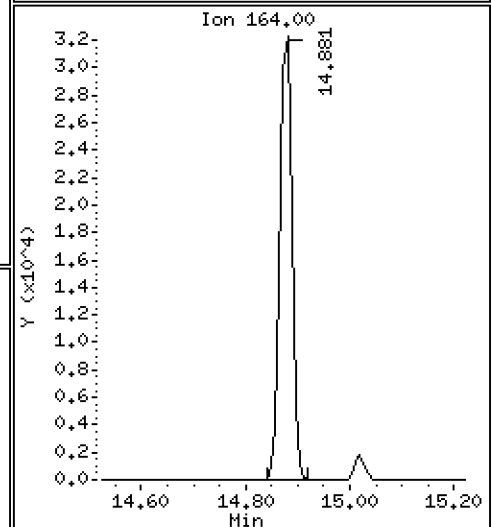
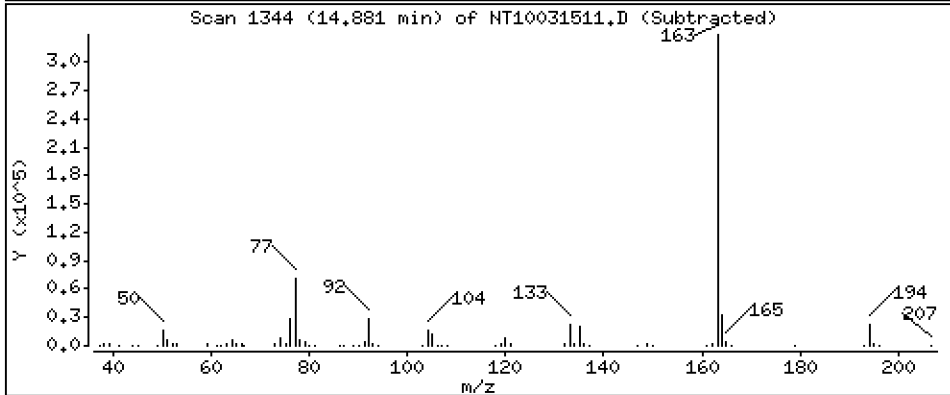
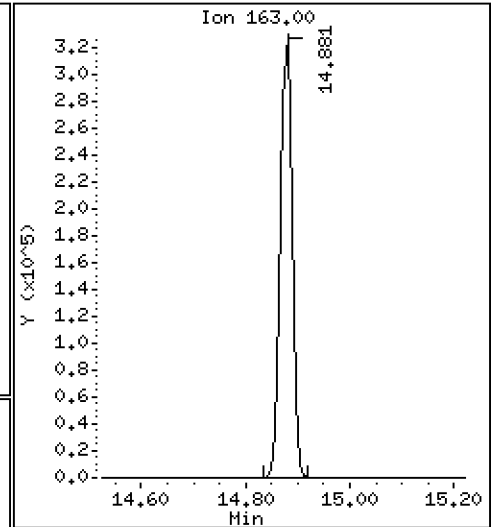
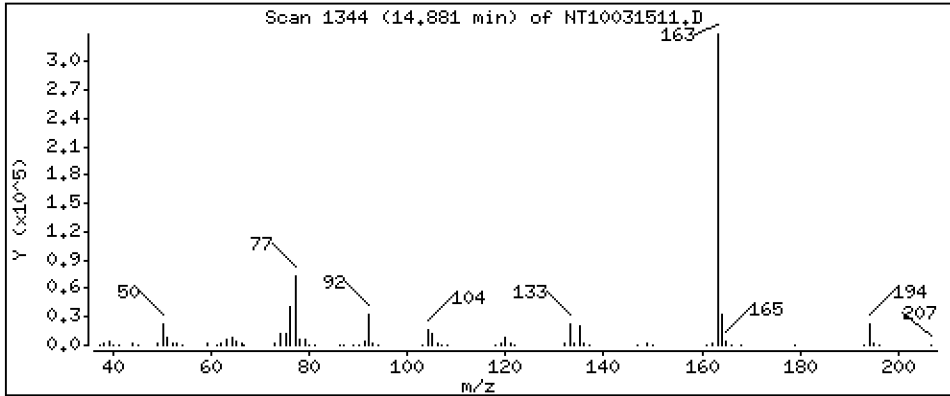
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 4,937 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

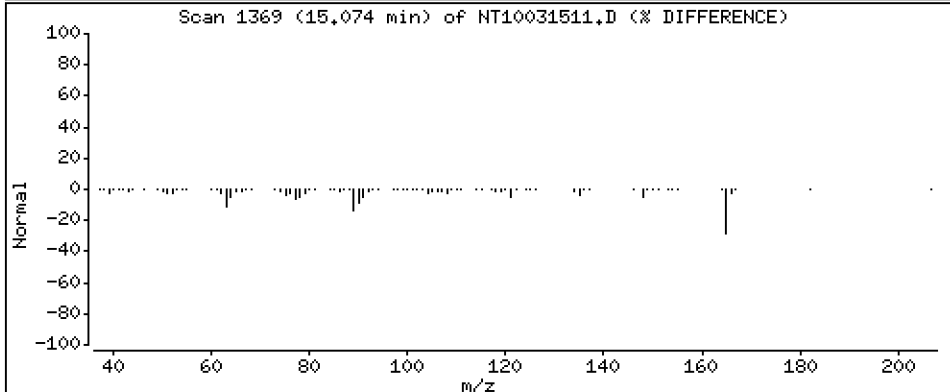
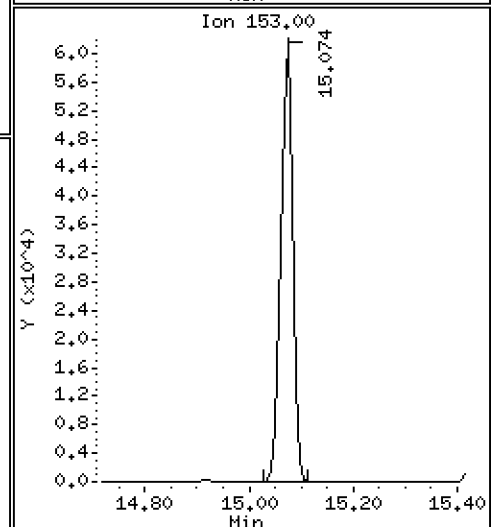
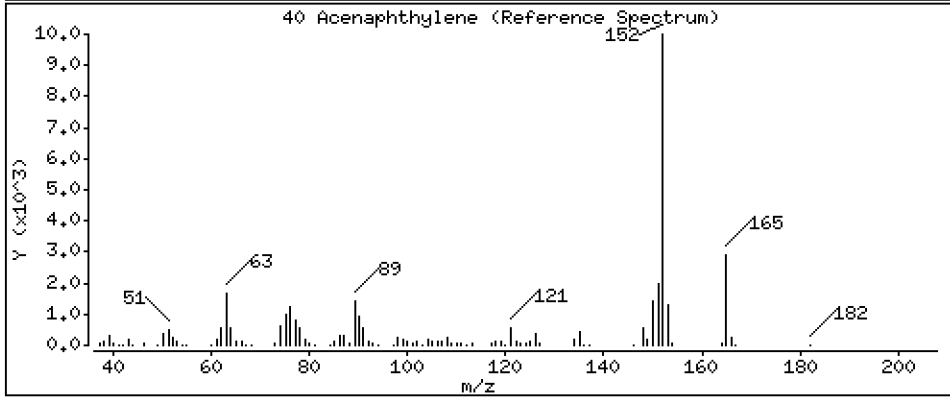
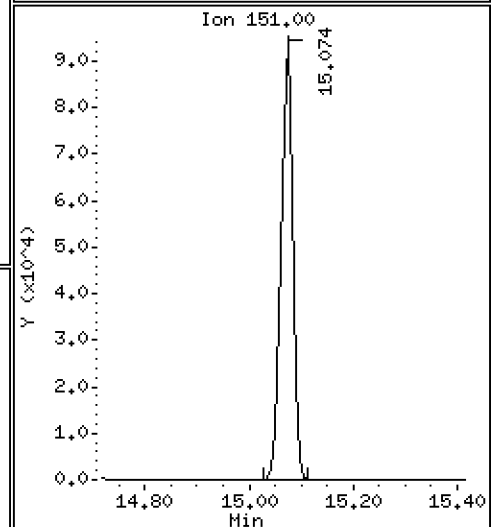
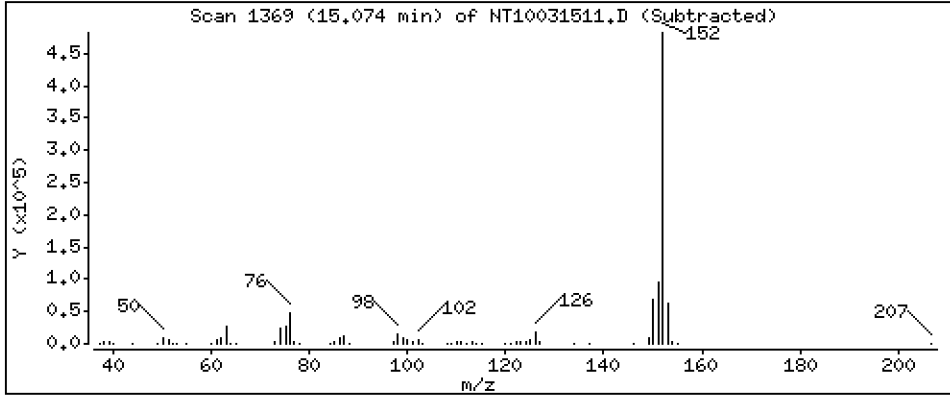
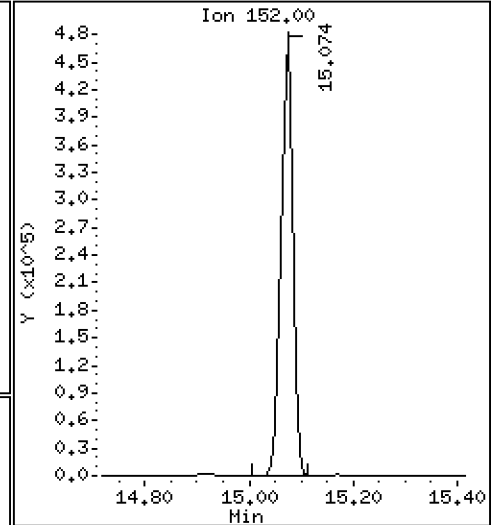
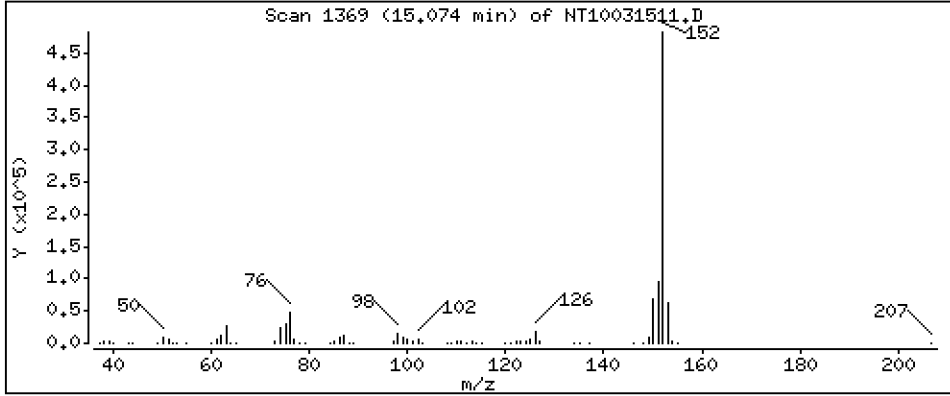
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 4,805 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

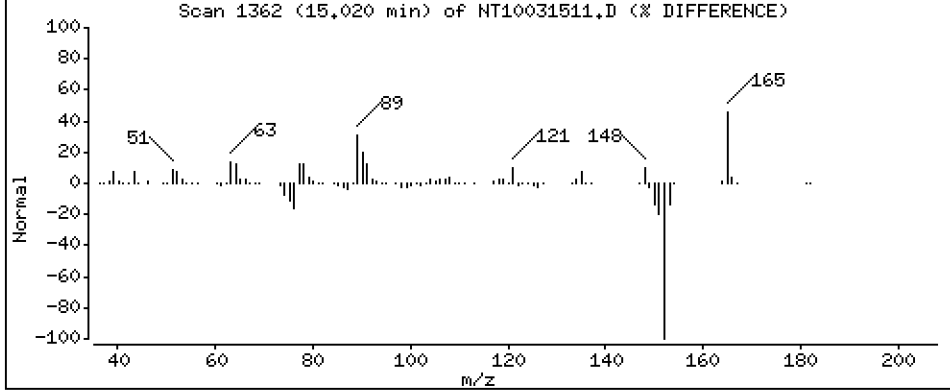
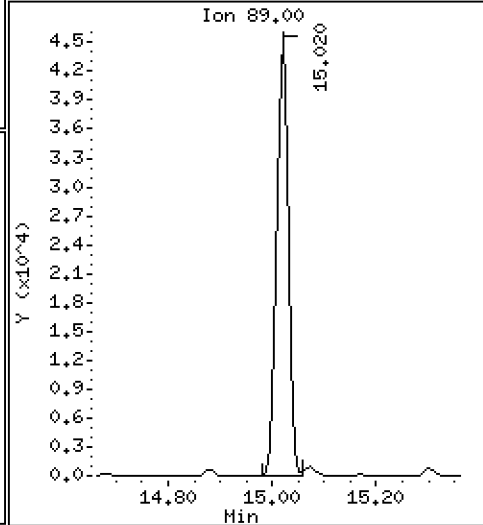
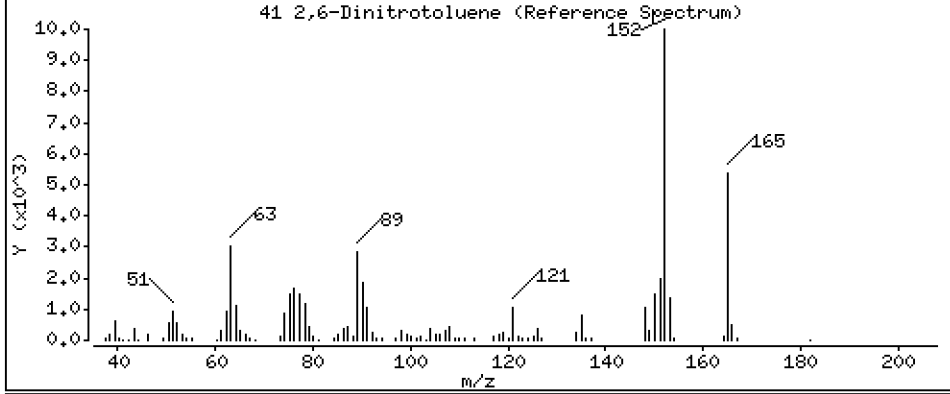
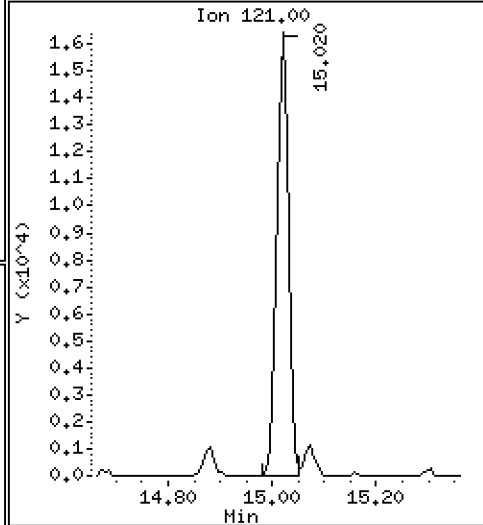
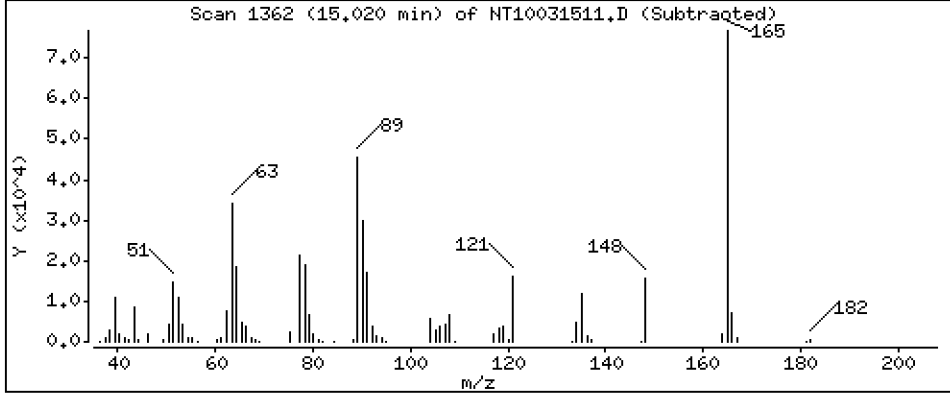
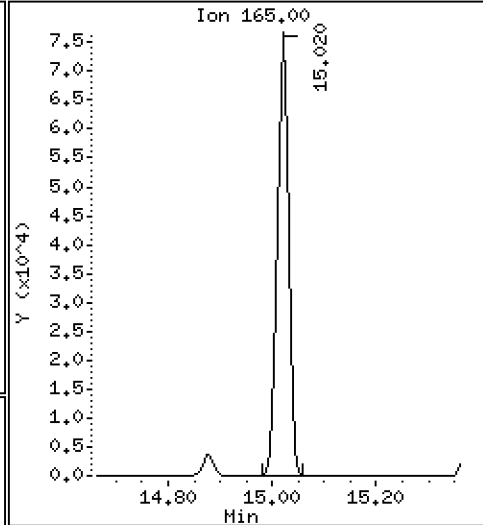
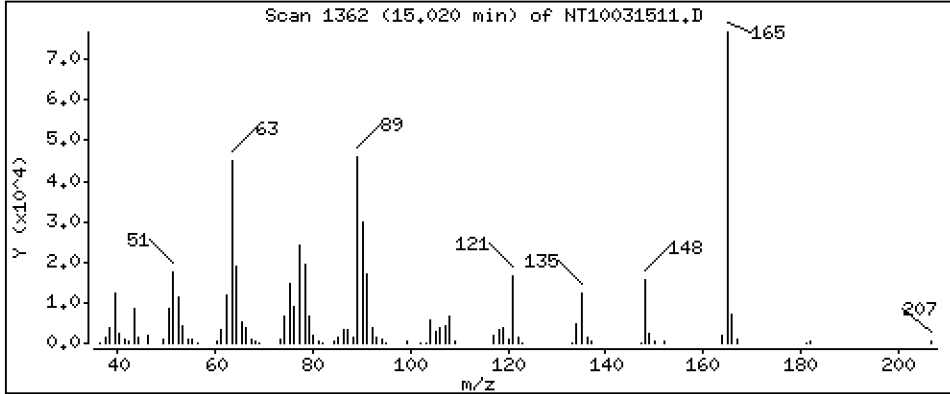
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

41 2,6-Dinitrotoluene

Concentration: 5,298 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

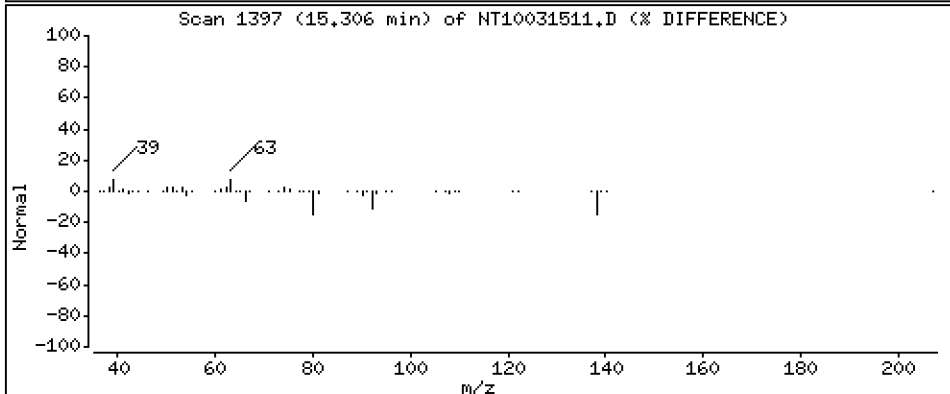
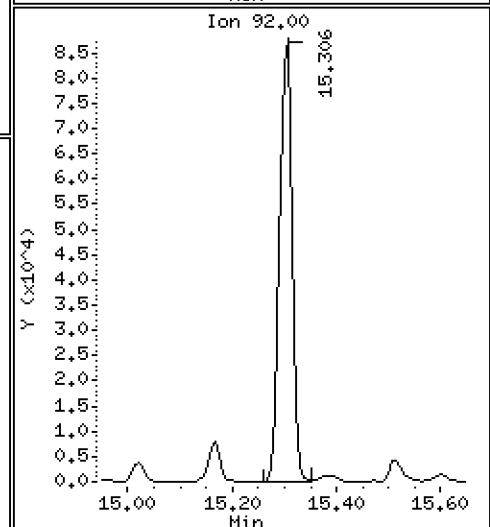
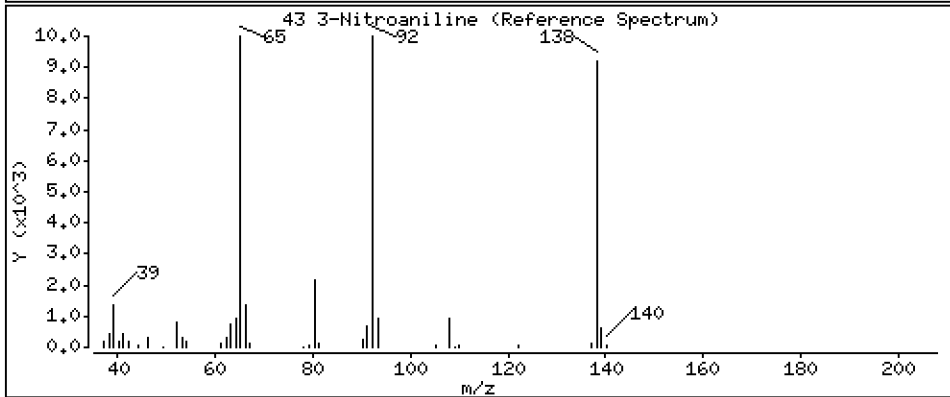
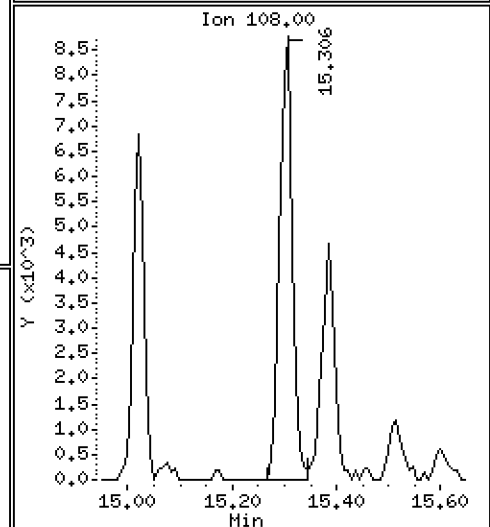
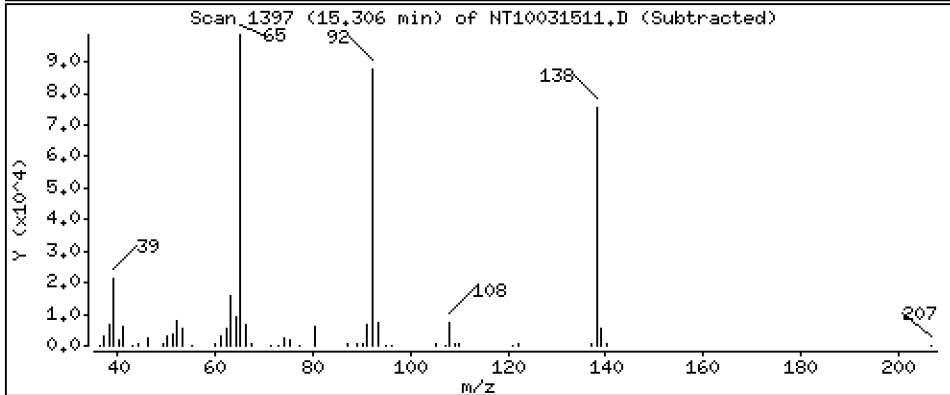
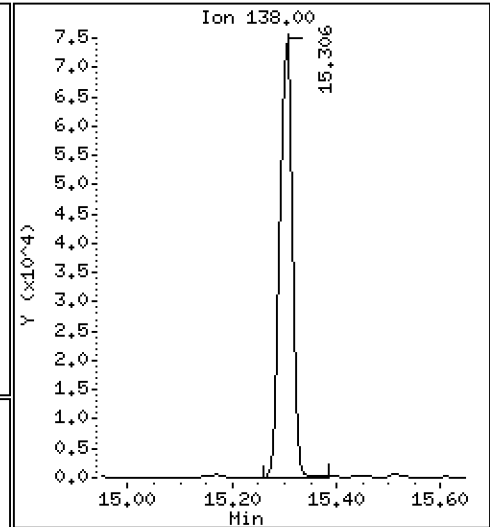
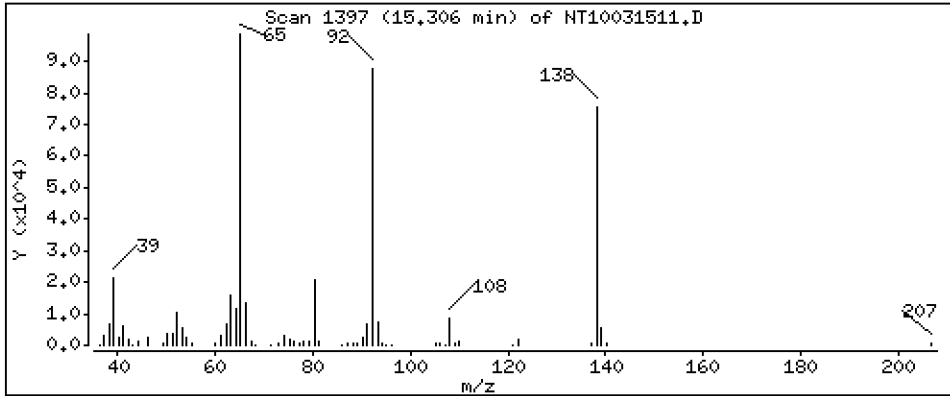
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

43 3-Nitroaniline

Concentration: 5,014 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

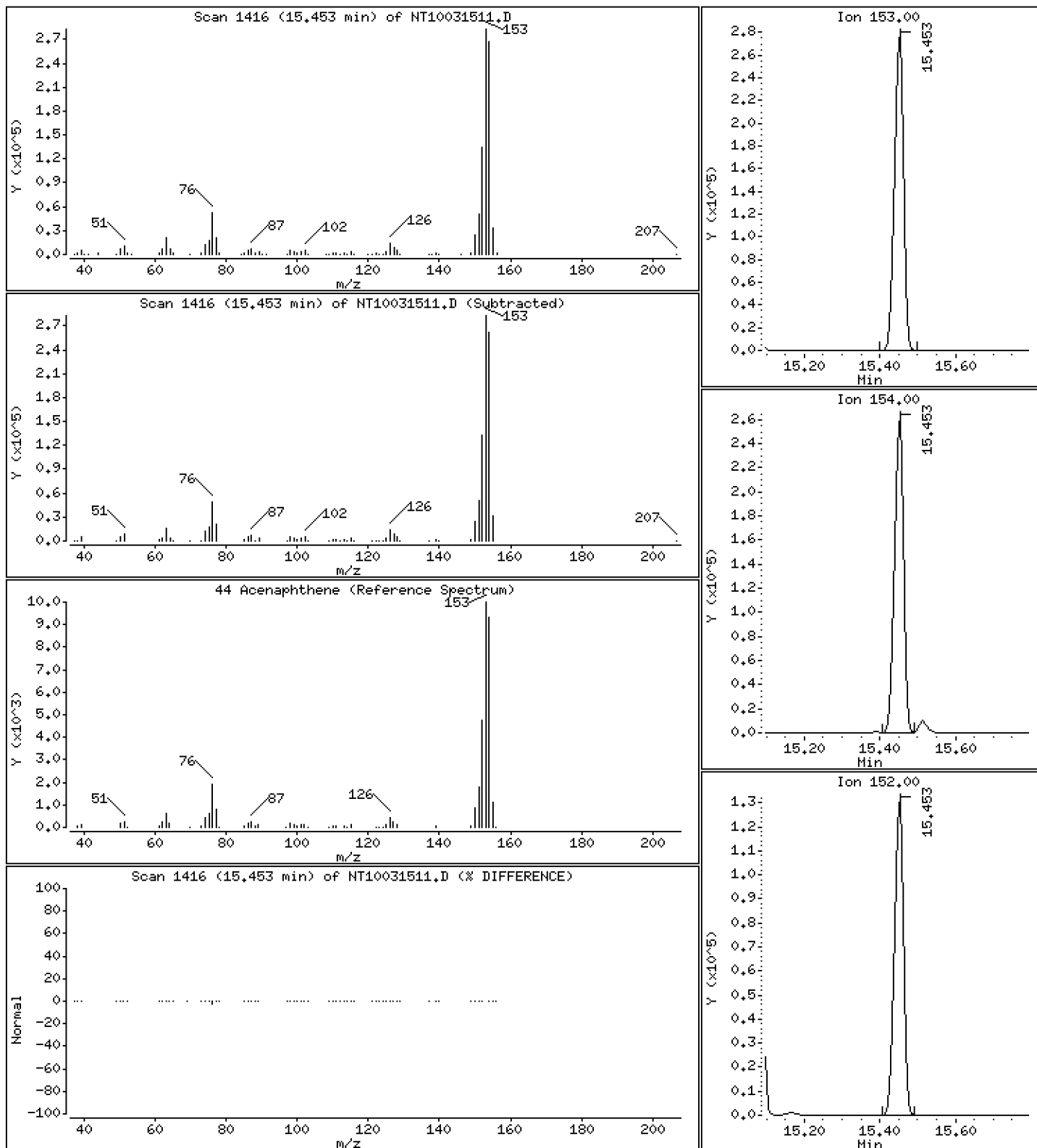
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 4,776 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

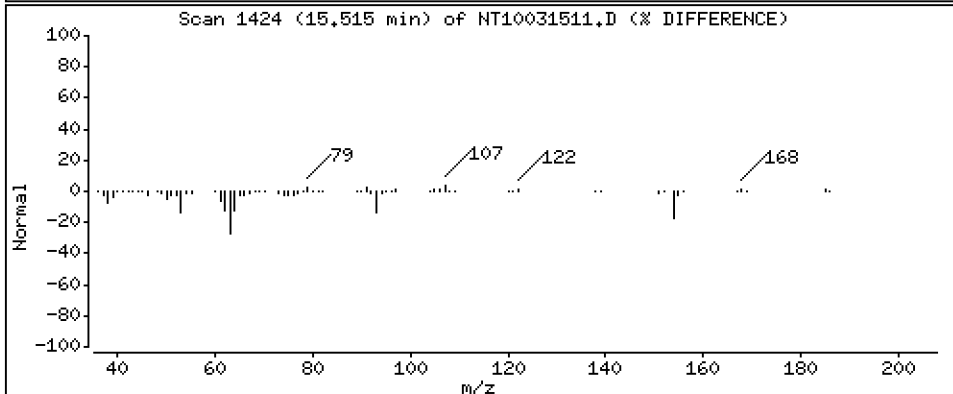
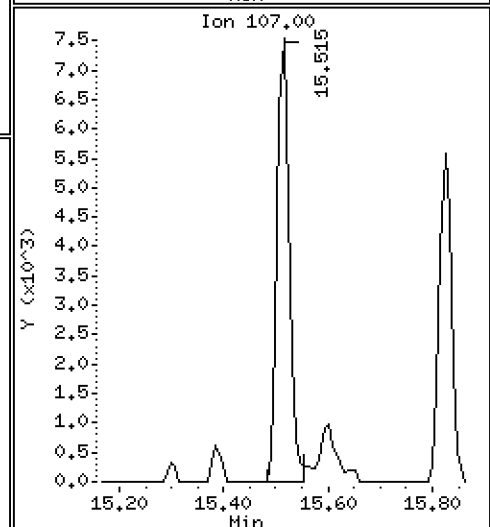
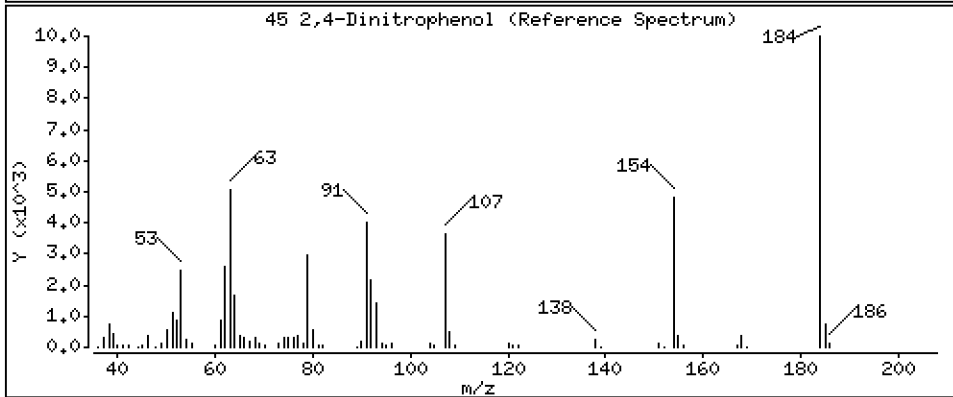
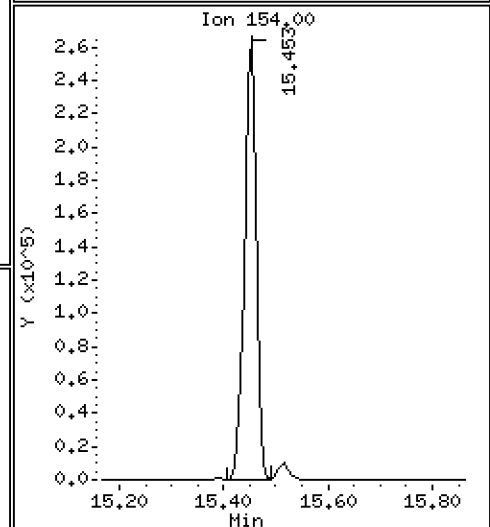
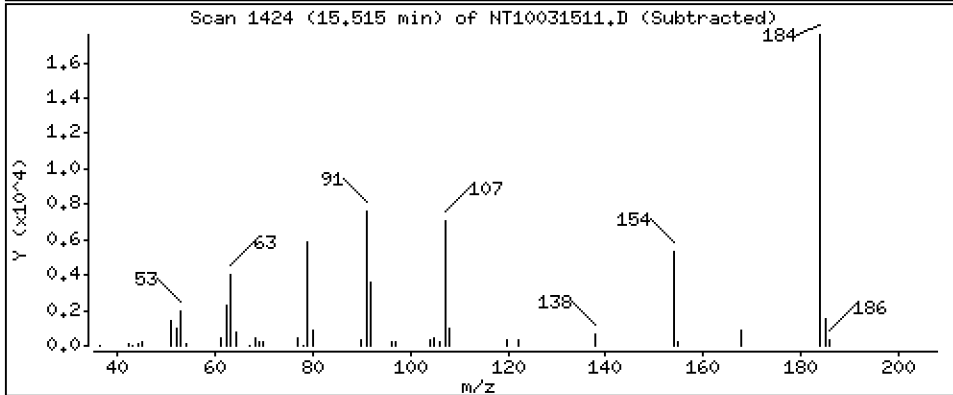
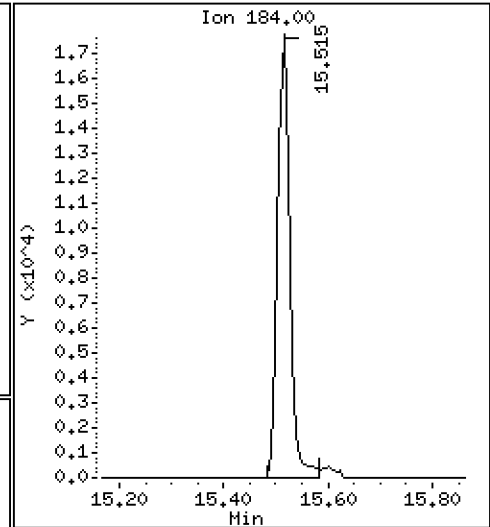
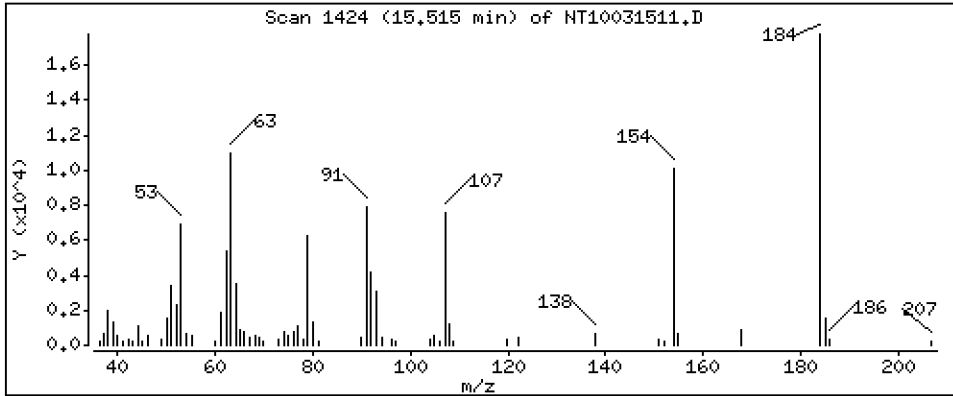
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

45 2,4-Dinitrophenol

Concentration: 2,124 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

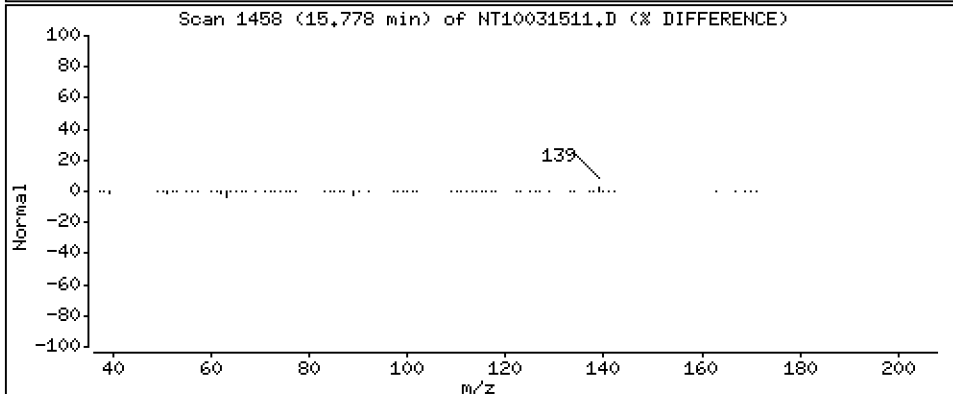
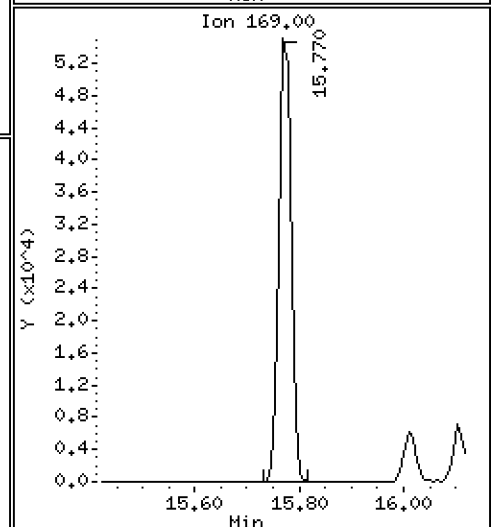
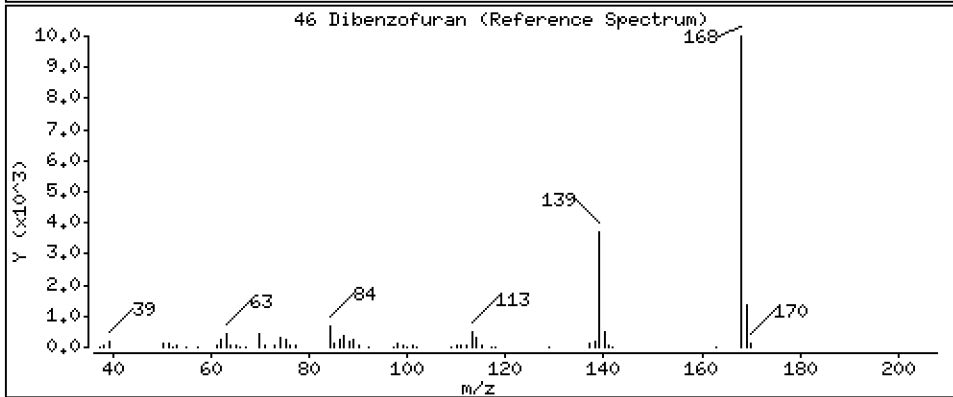
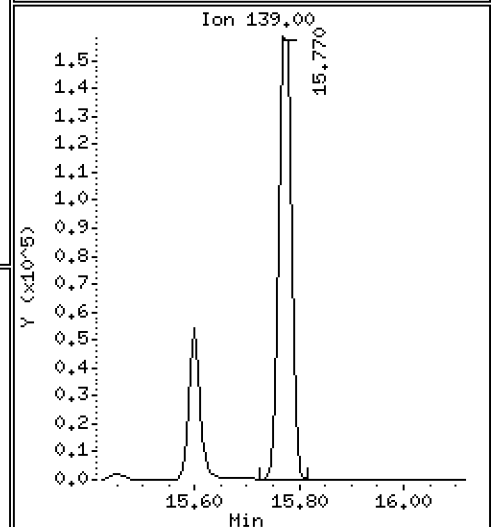
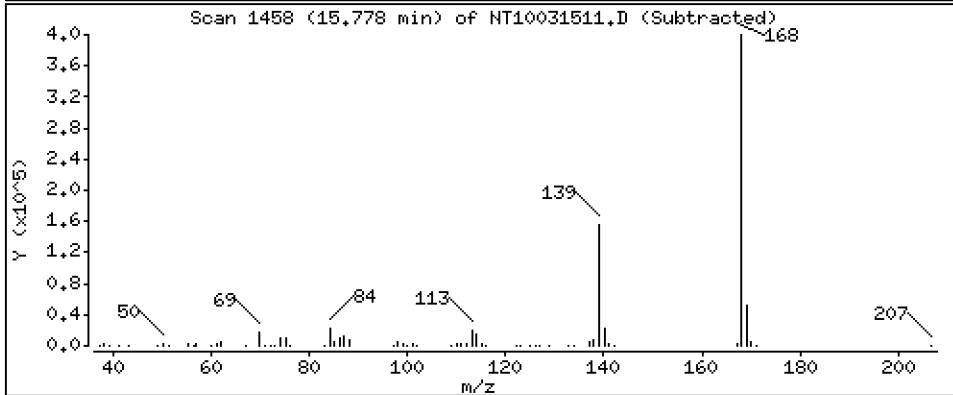
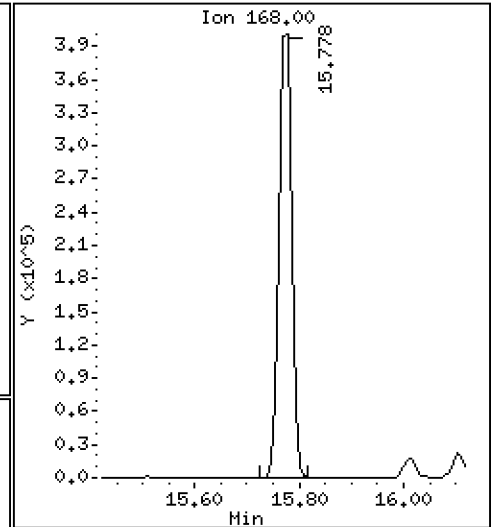
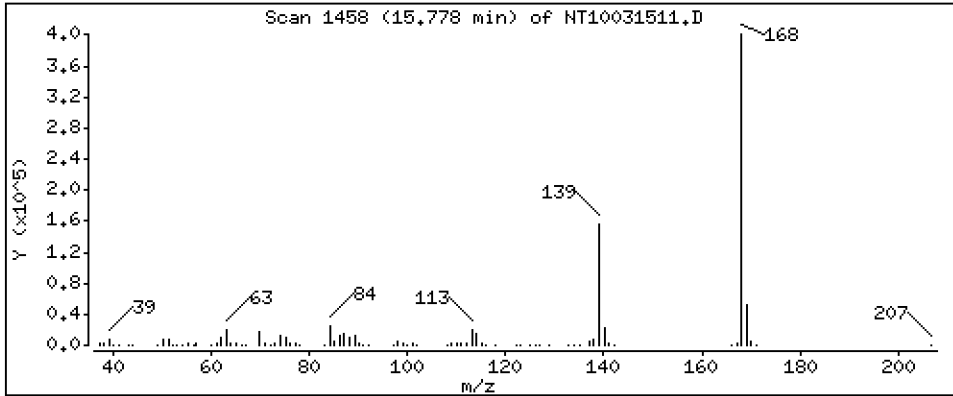
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 4,648 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

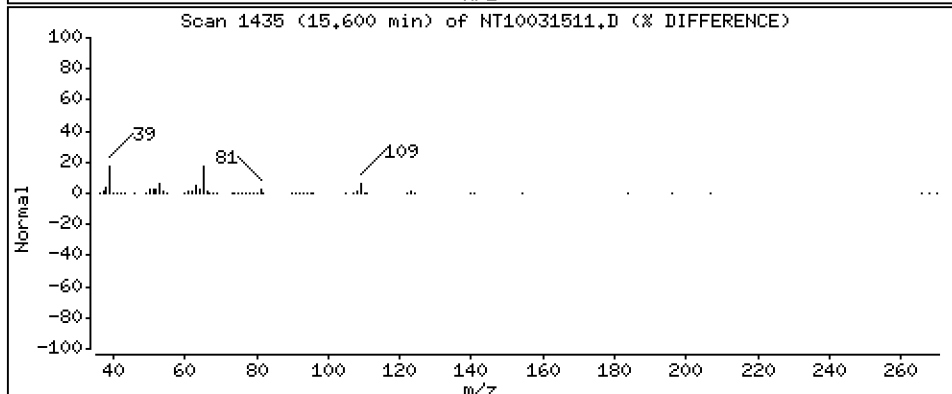
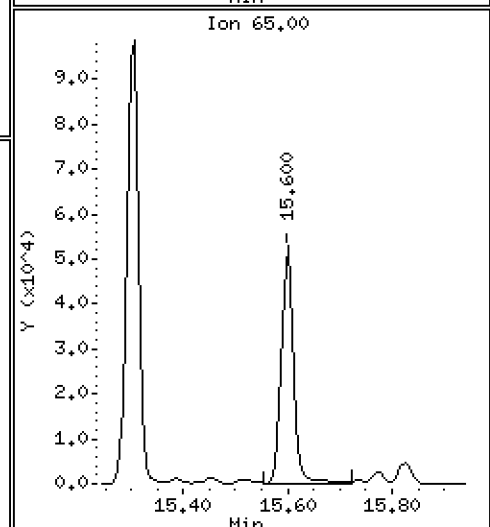
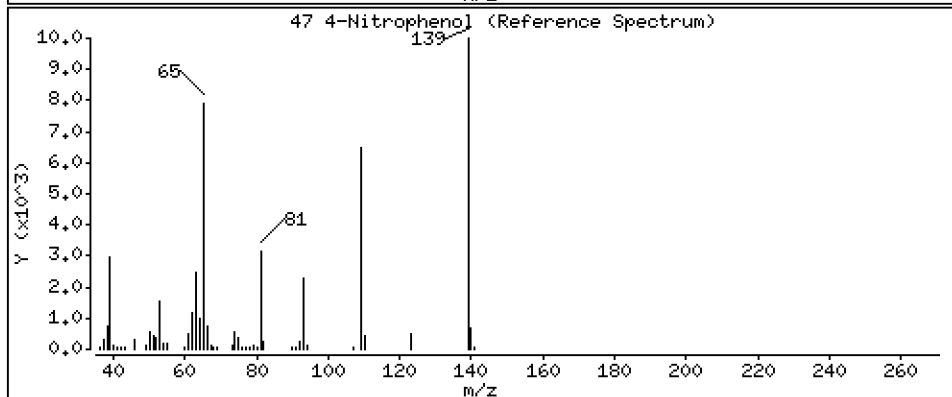
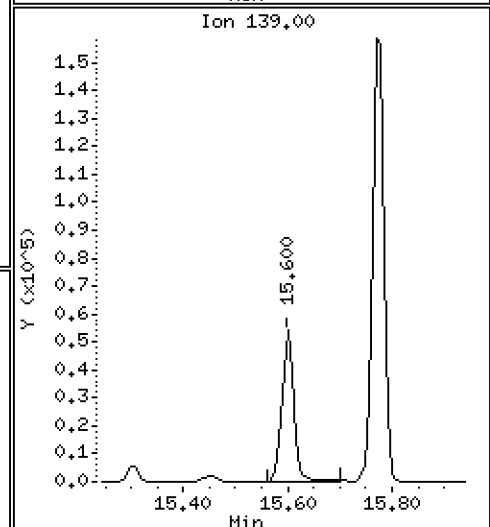
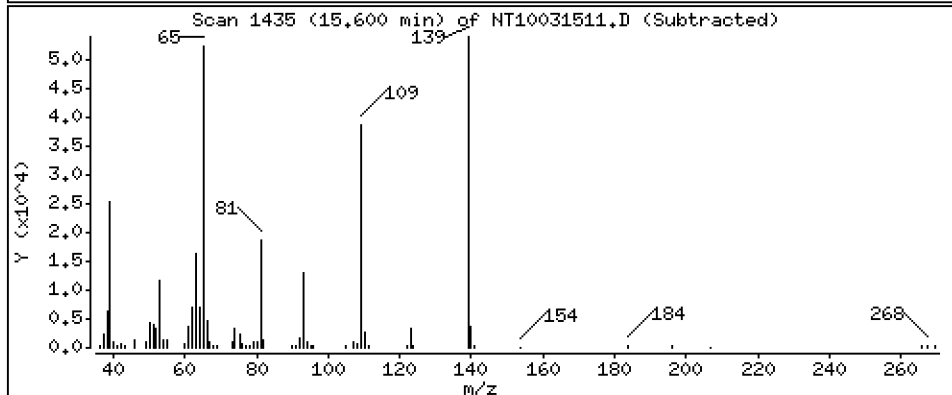
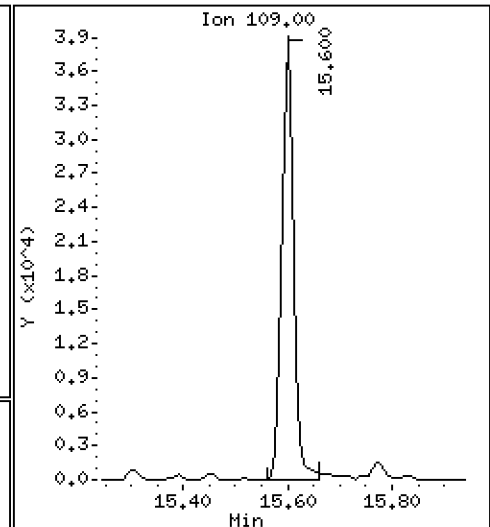
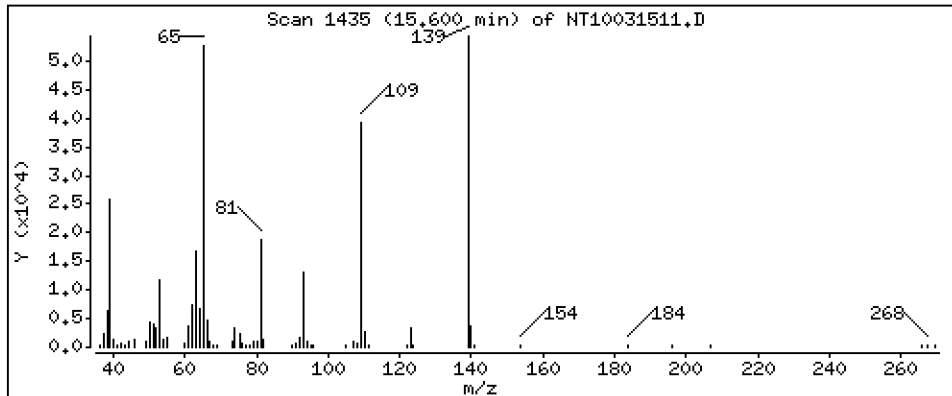
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

47 4-Nitrophenol

Concentration: 3,966 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

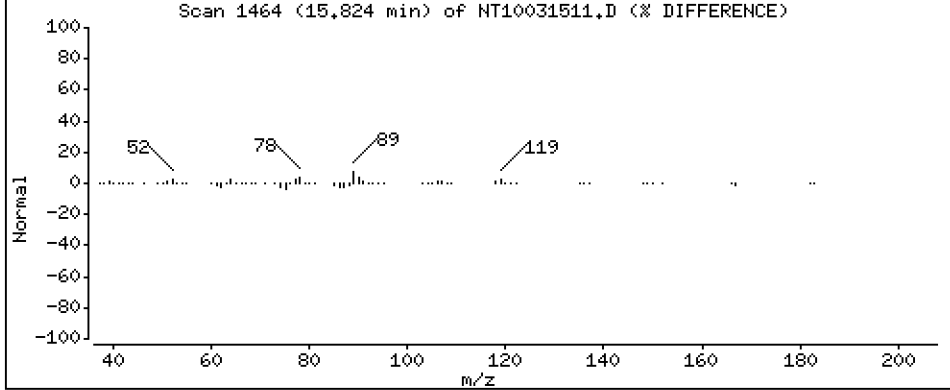
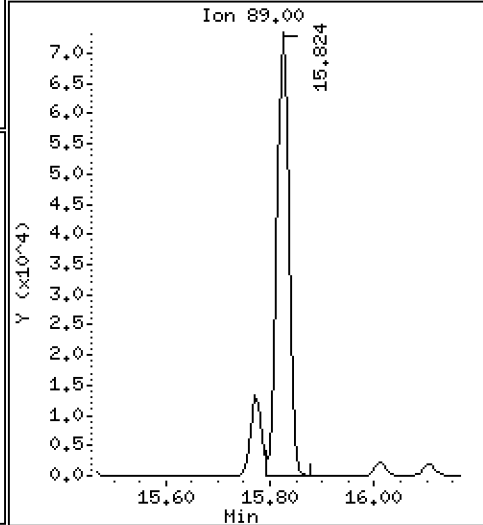
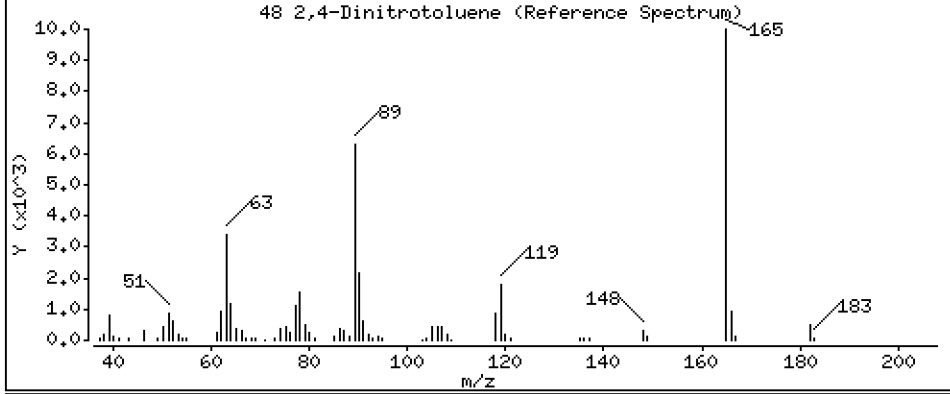
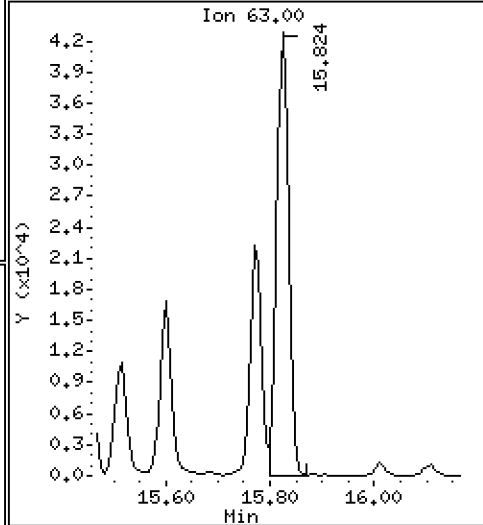
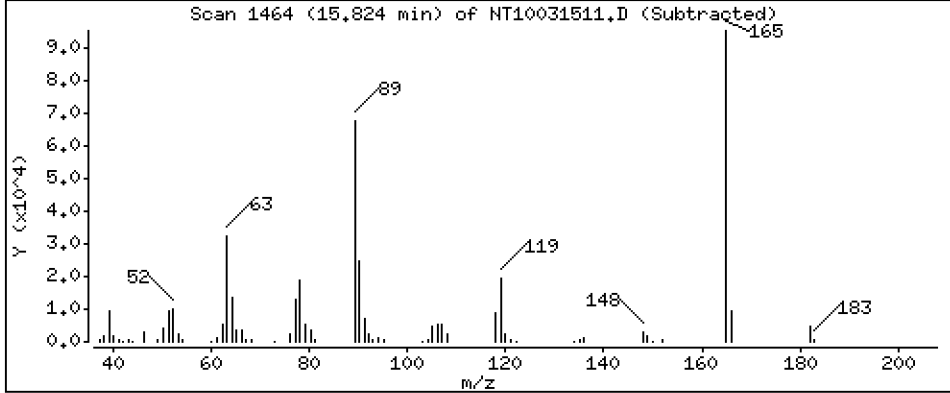
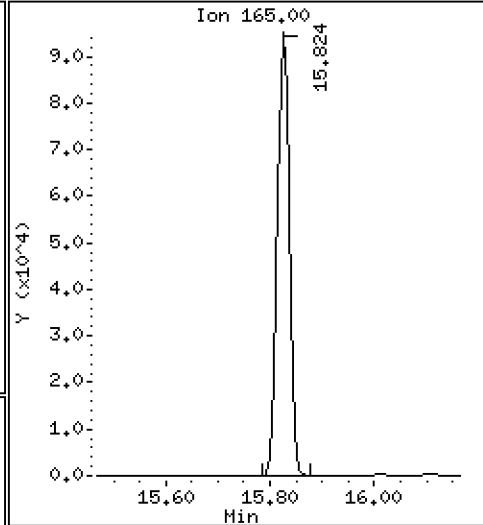
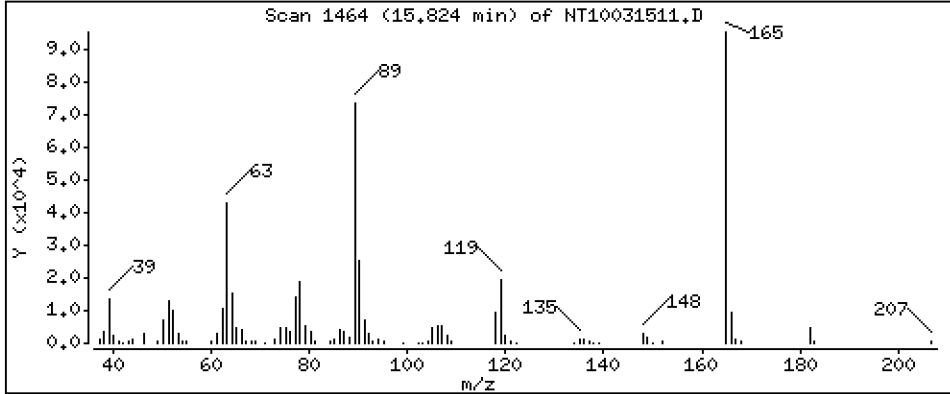
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

48 2,4-Dinitrotoluene

Concentration: 4,510 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

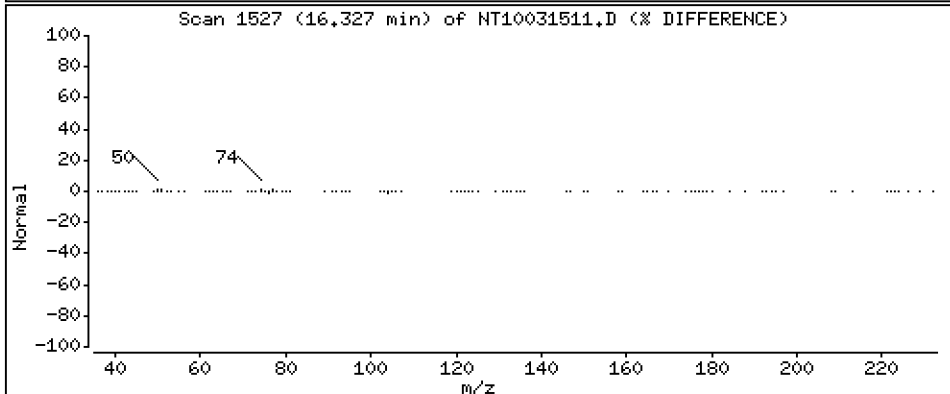
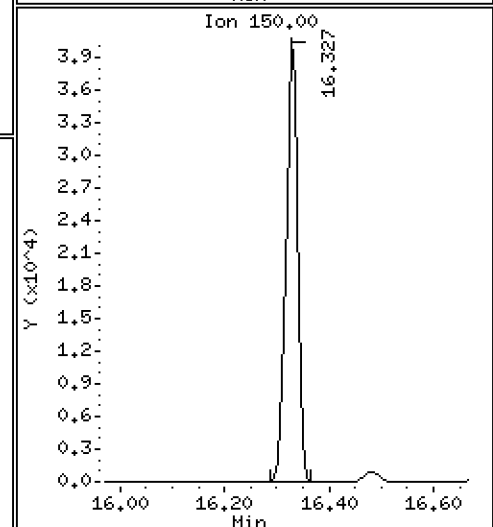
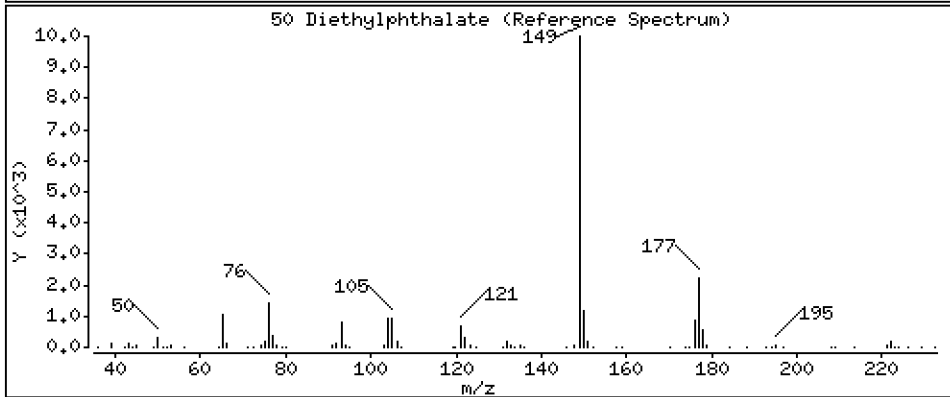
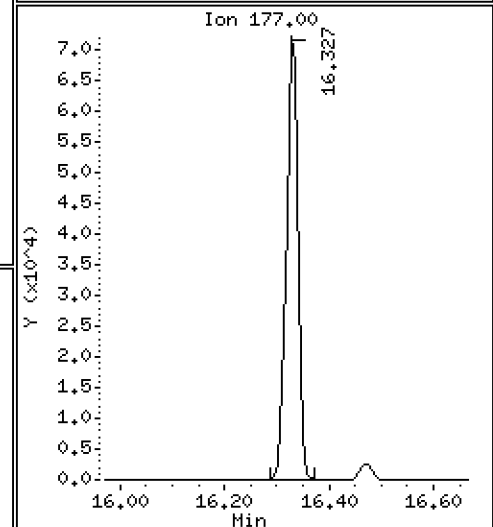
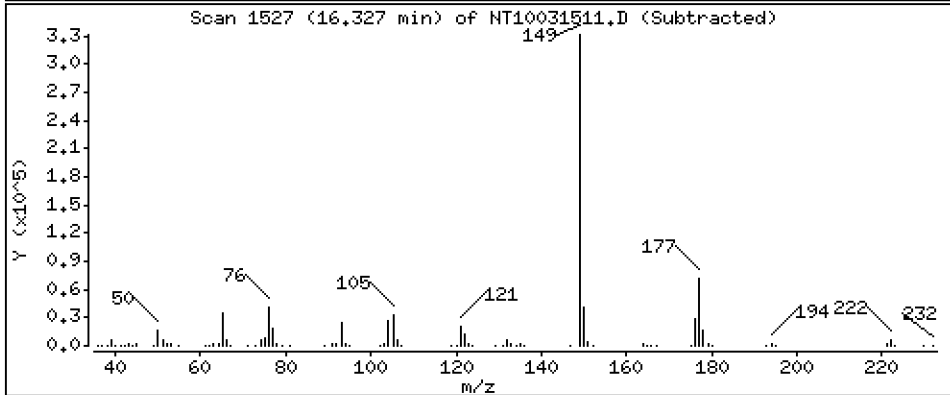
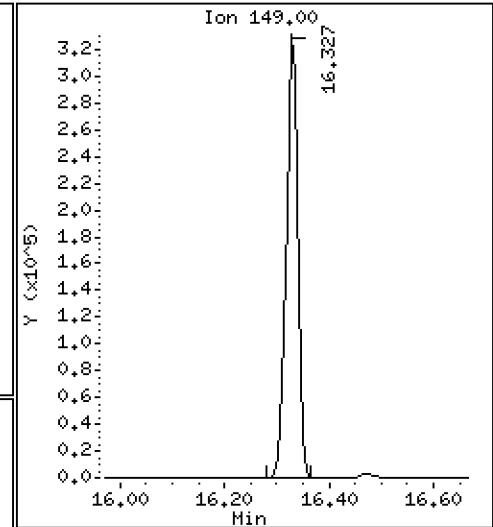
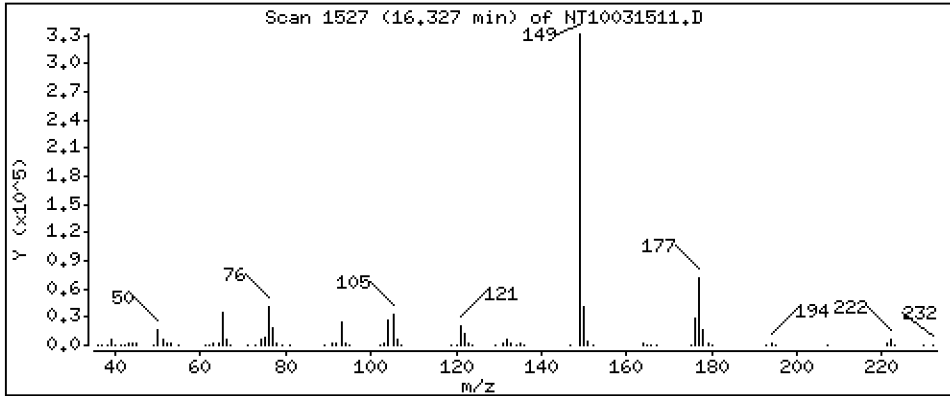
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 5,209 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

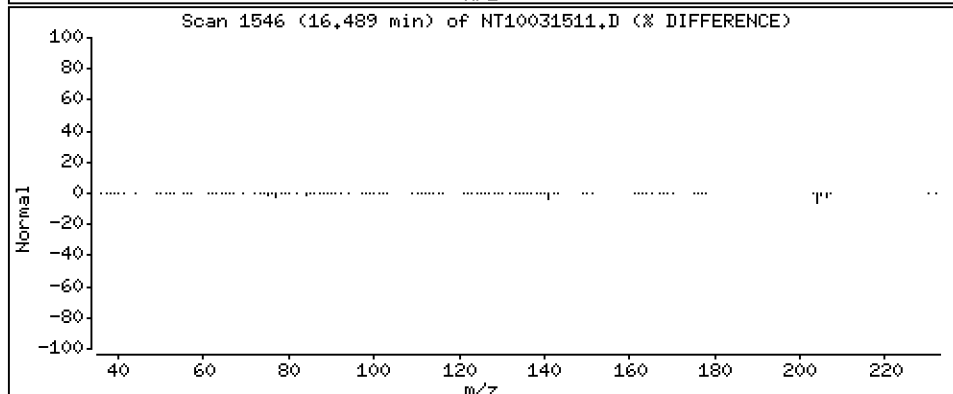
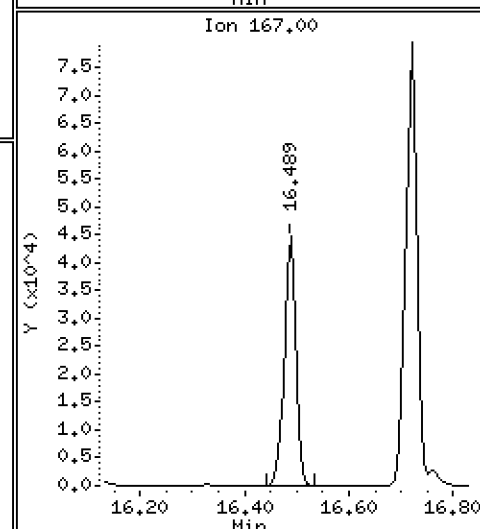
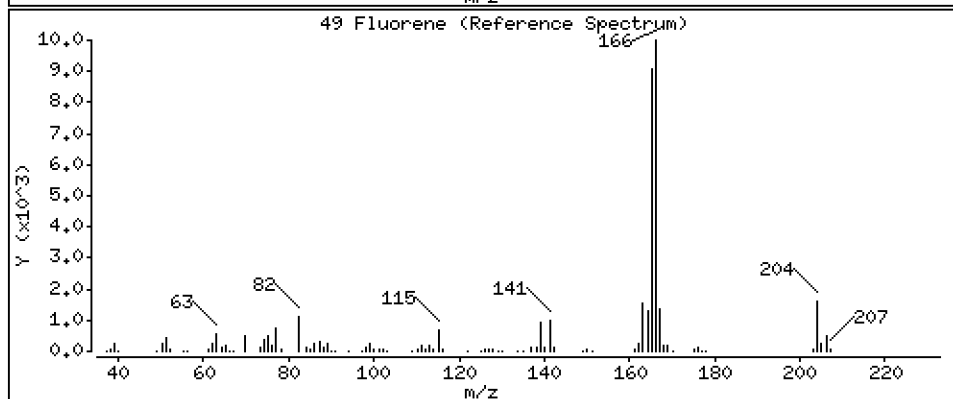
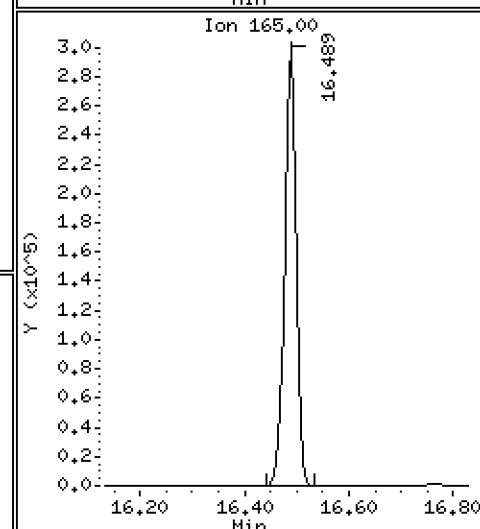
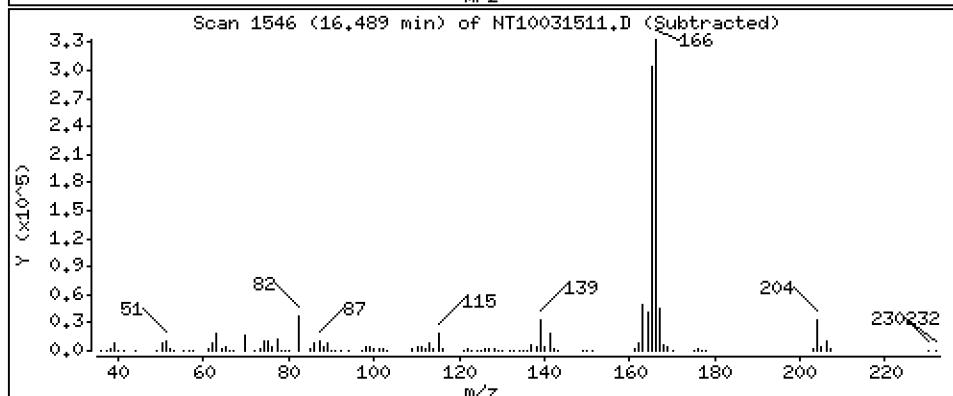
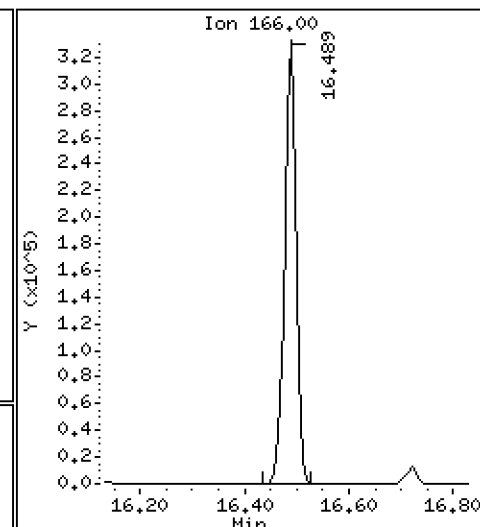
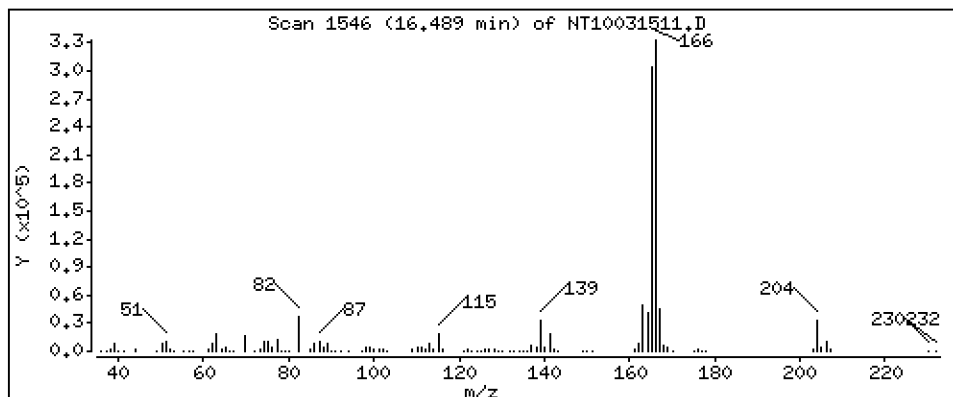
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 4,708 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

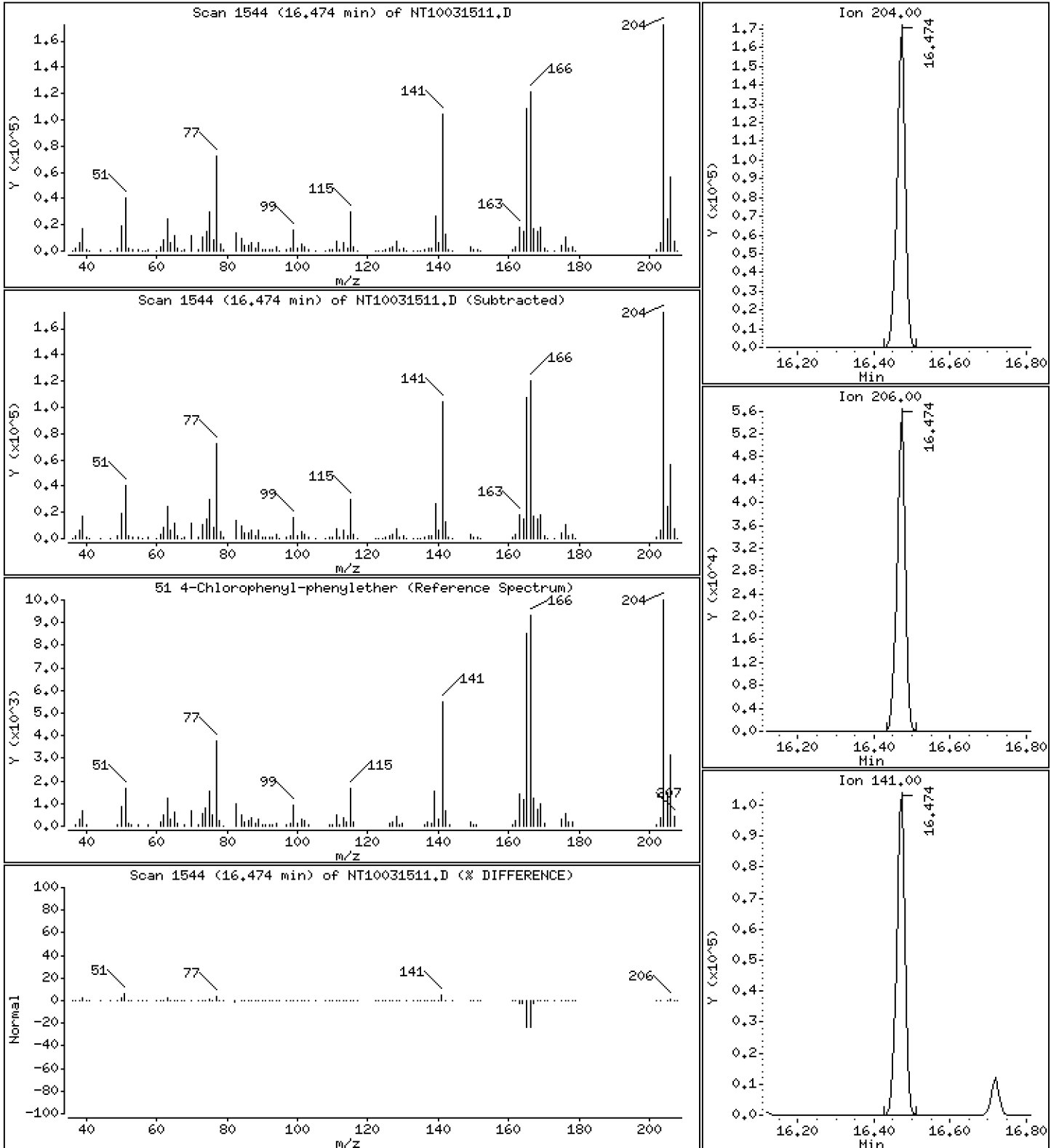
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 4,993 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

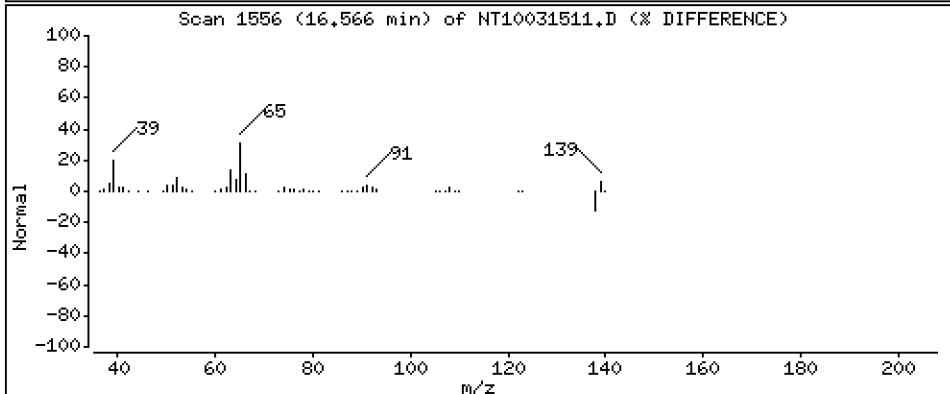
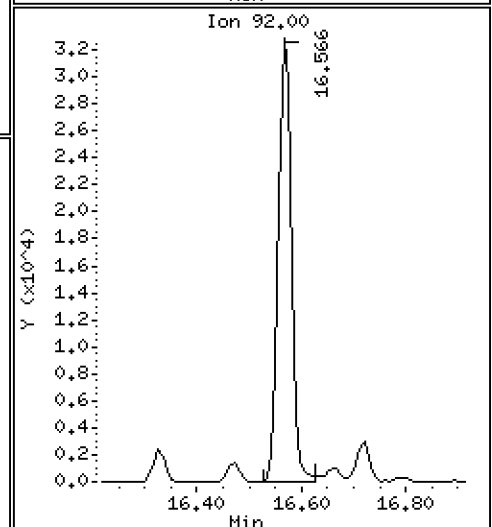
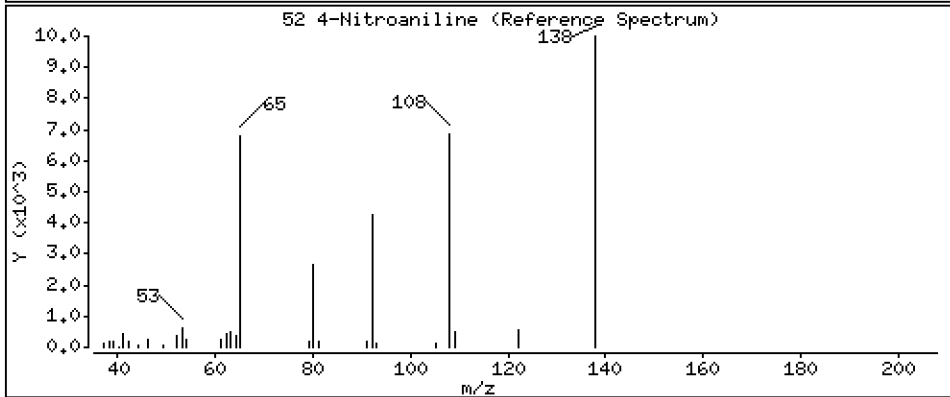
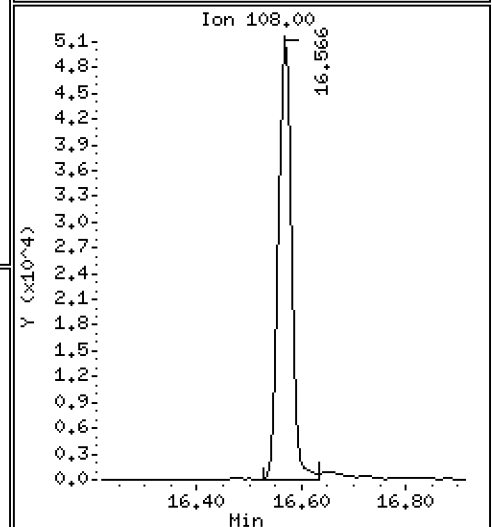
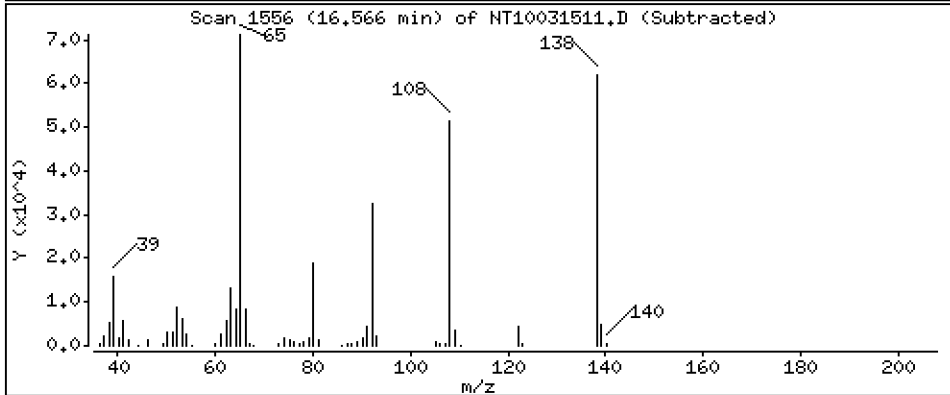
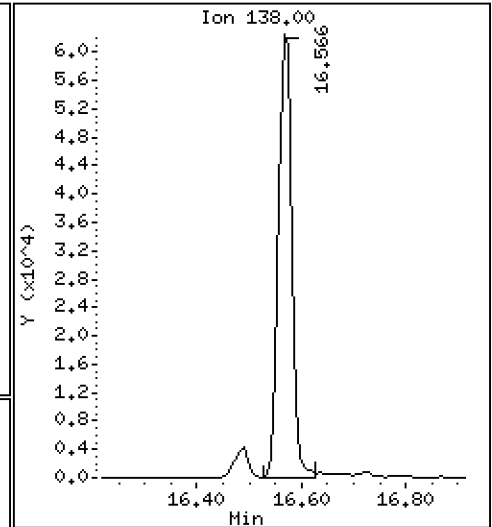
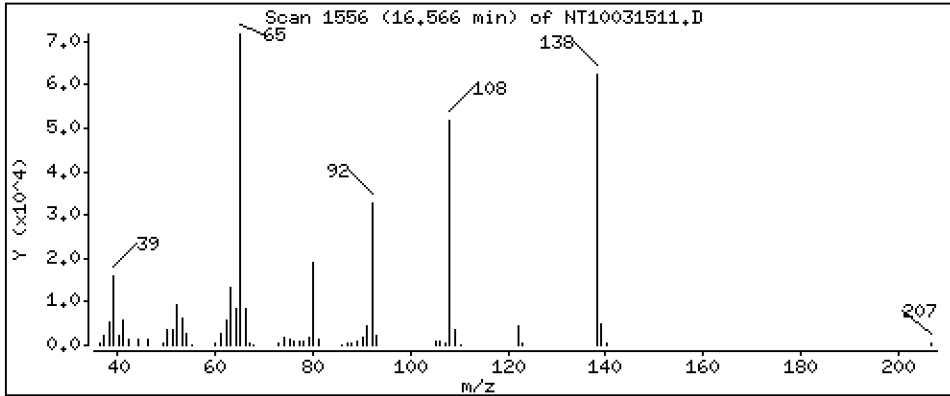
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

52 4-Nitroaniline

Concentration: 4,925 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

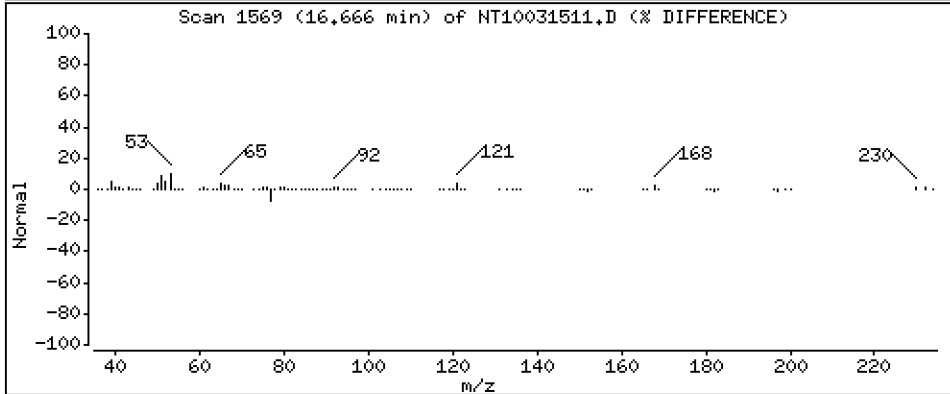
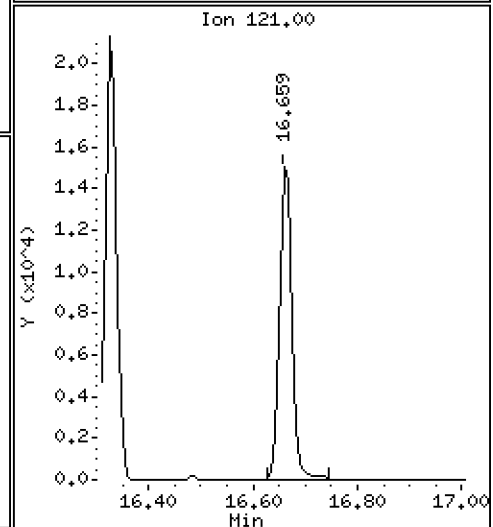
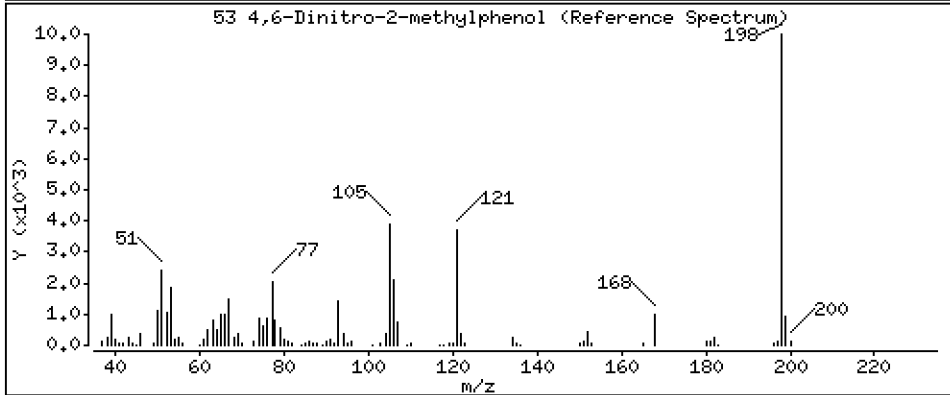
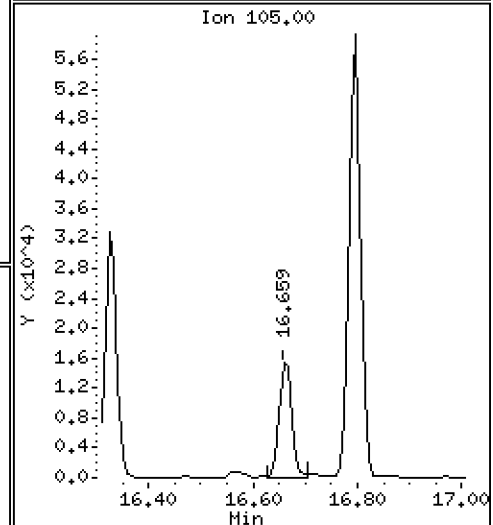
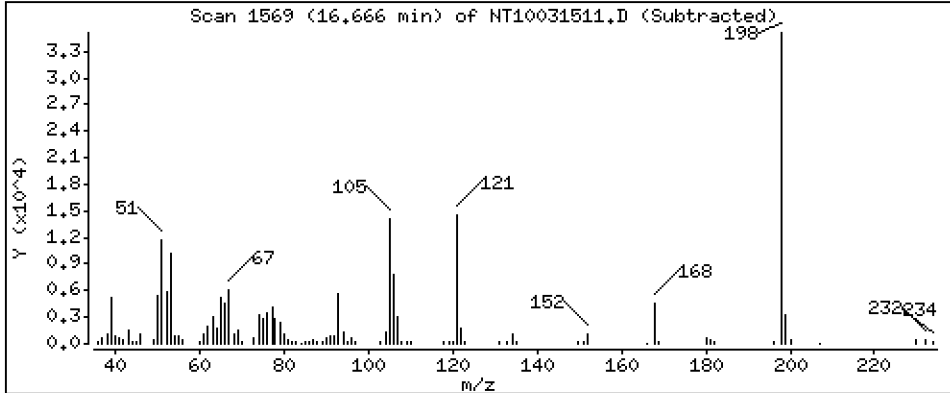
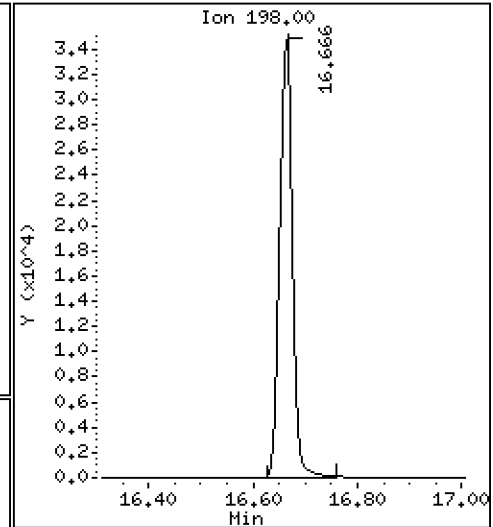
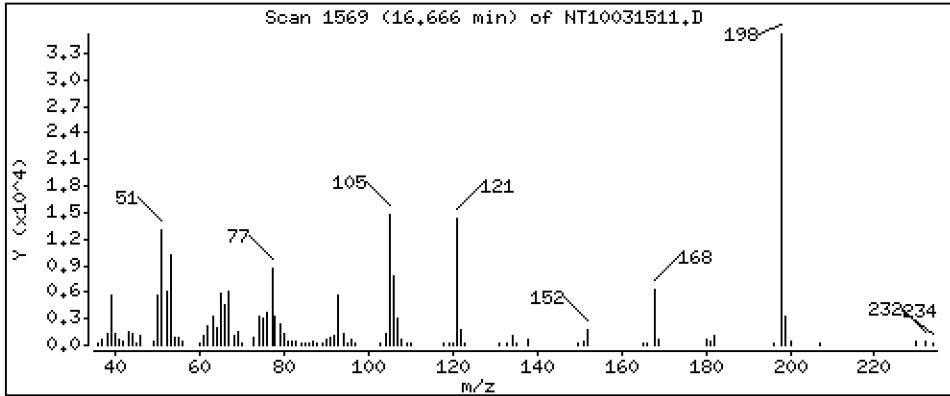
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

53 4,6-Dinitro-2-methylphenol

Concentration: 3.515 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

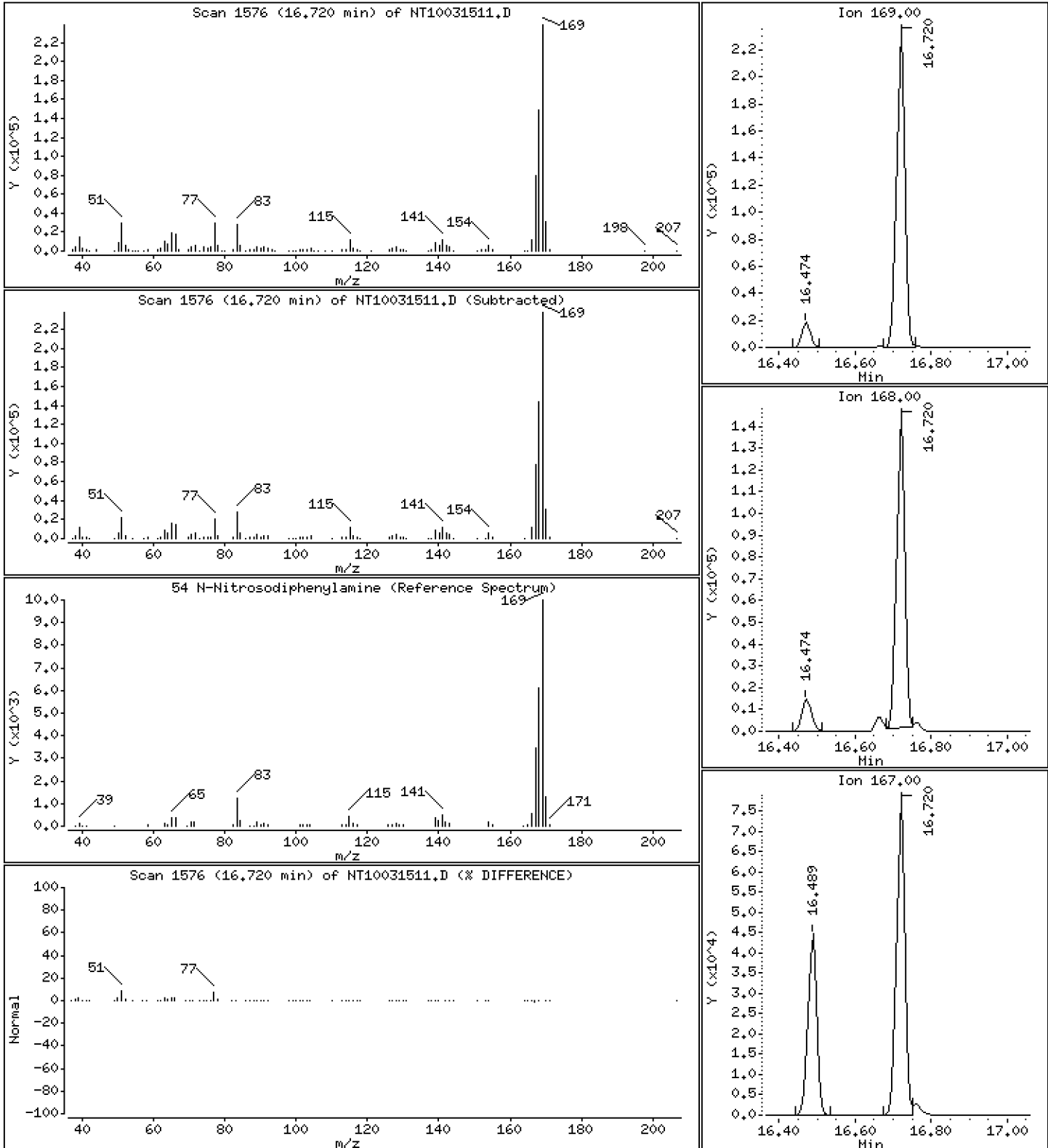
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

54 N-Nitrosodiphenylamine

Concentration: 4,802 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

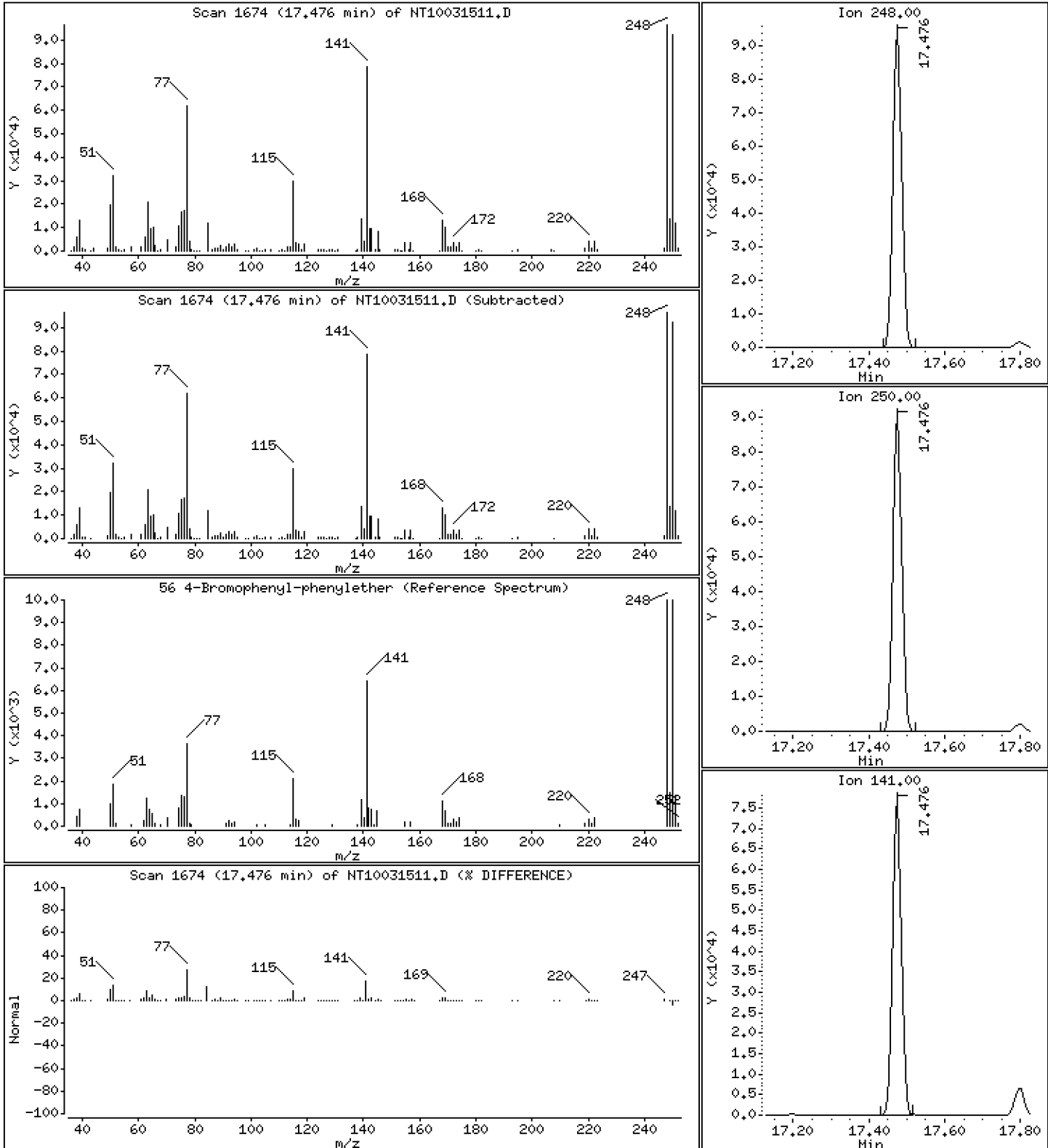
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 5,060 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

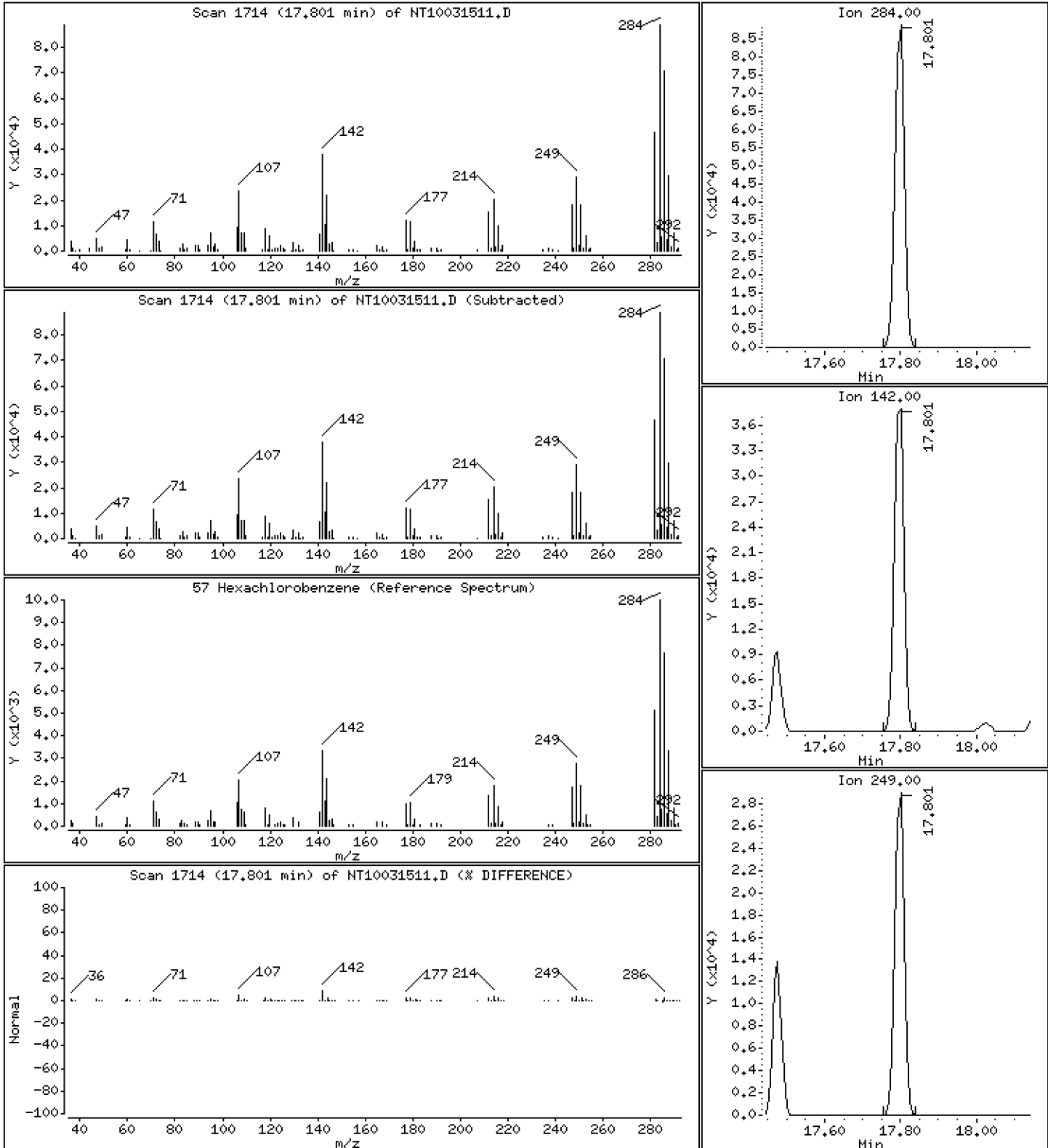
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

57 Hexachlorobenzene

Concentration: 4,596 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

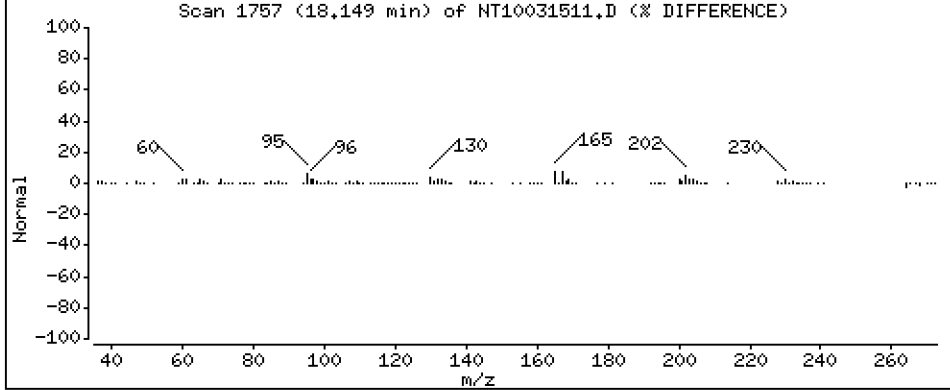
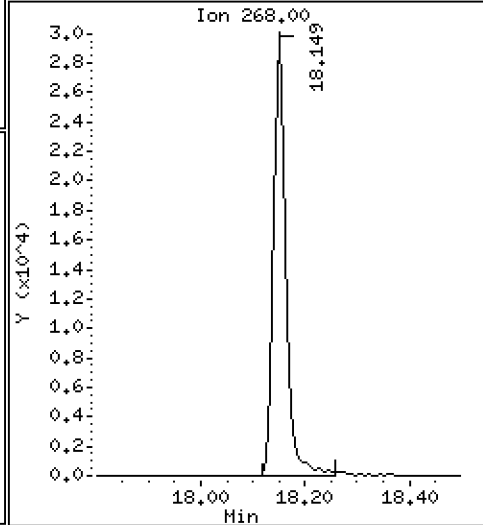
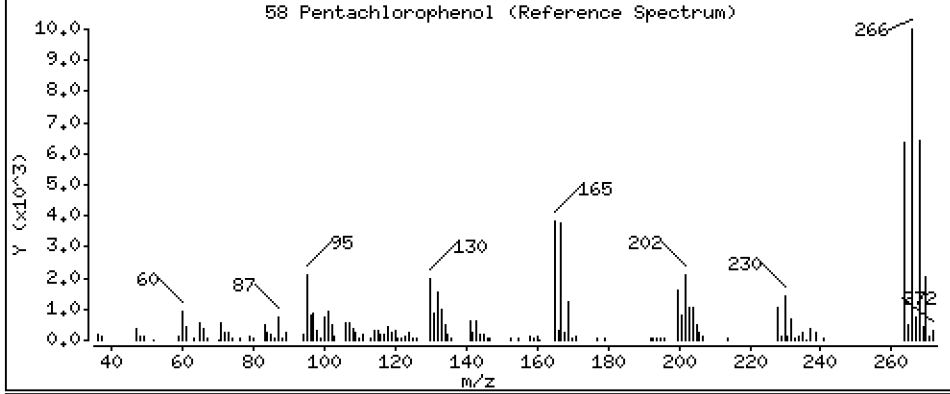
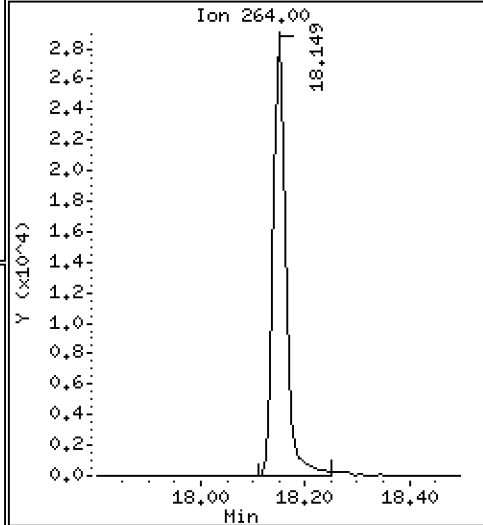
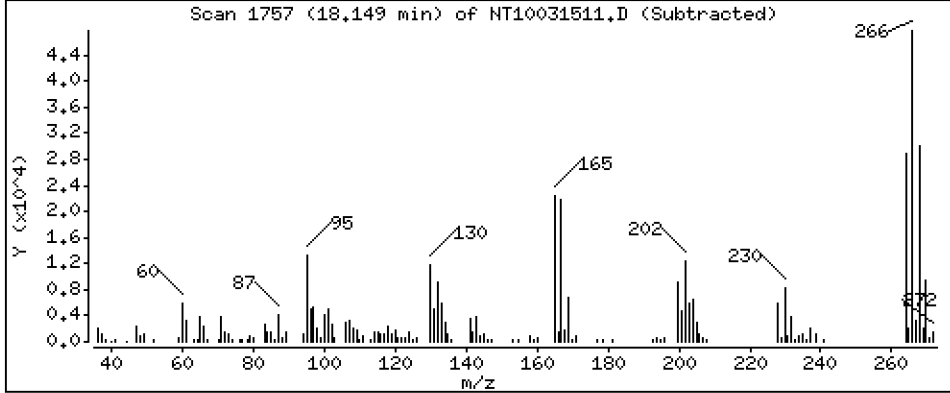
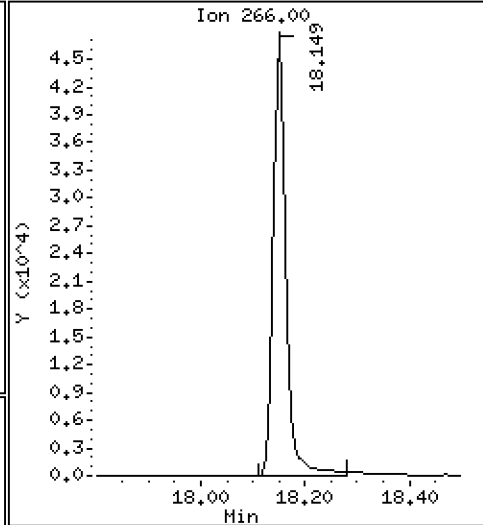
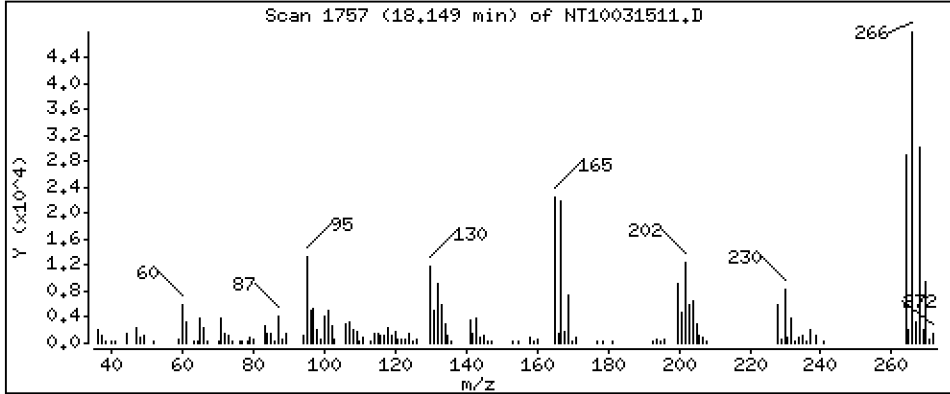
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 4,057 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

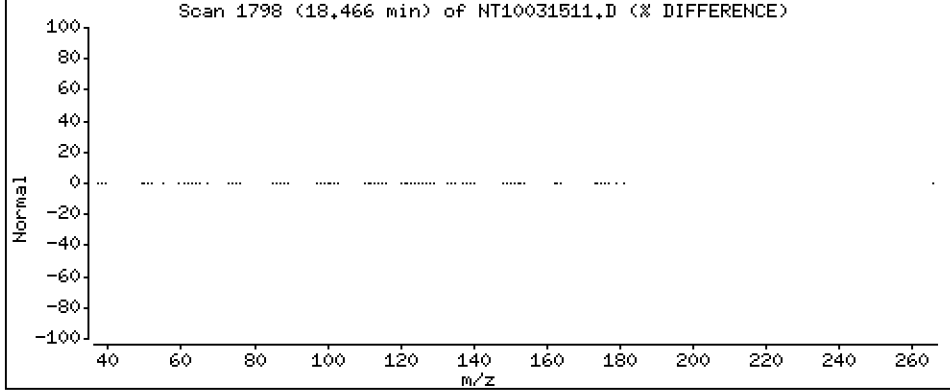
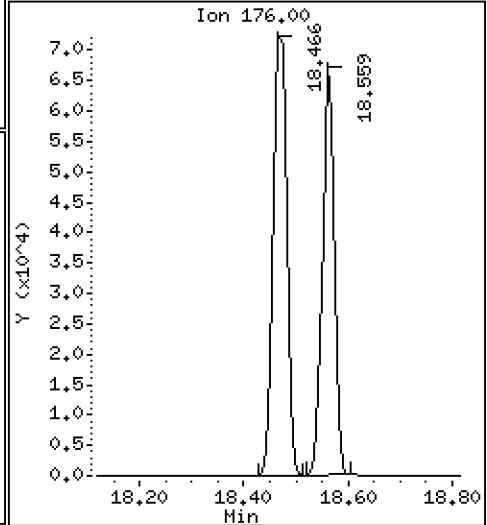
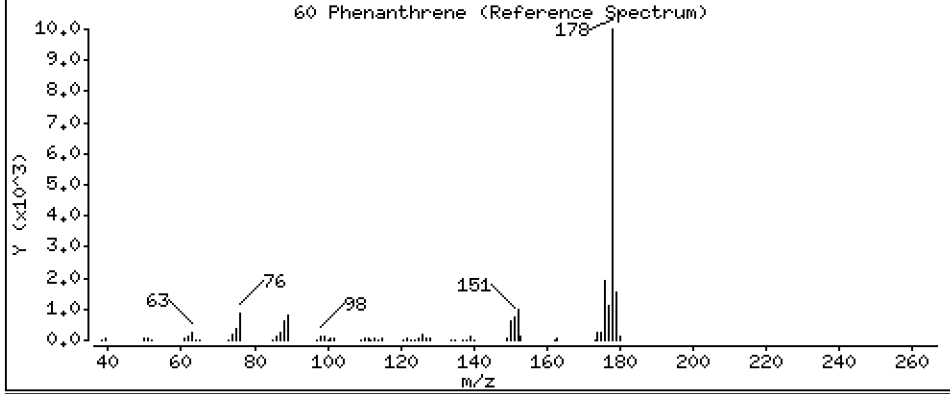
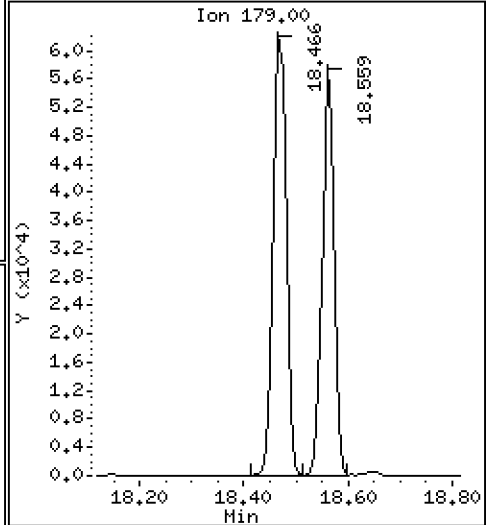
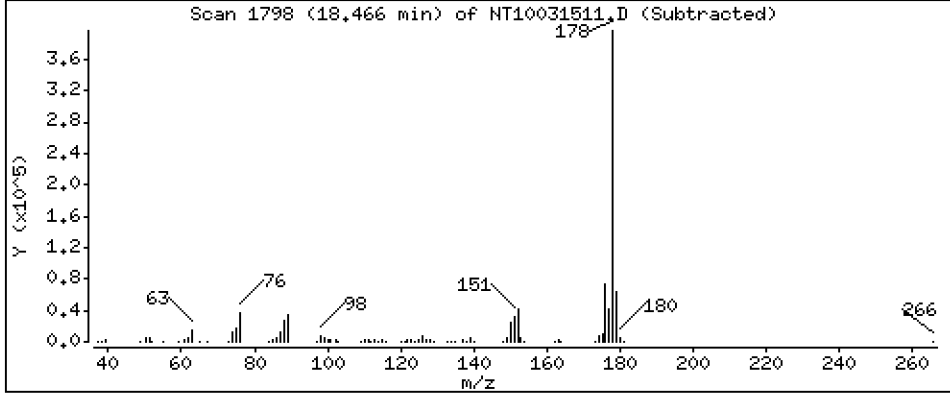
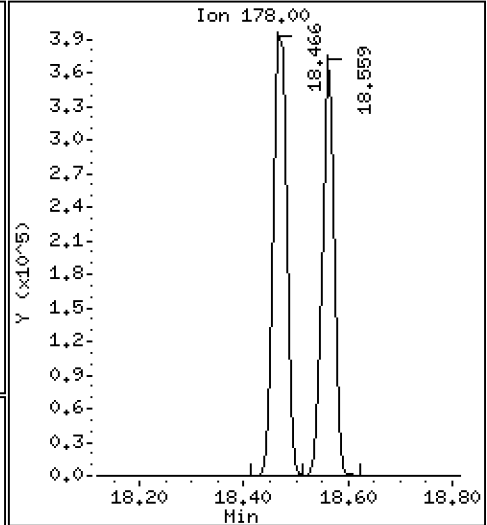
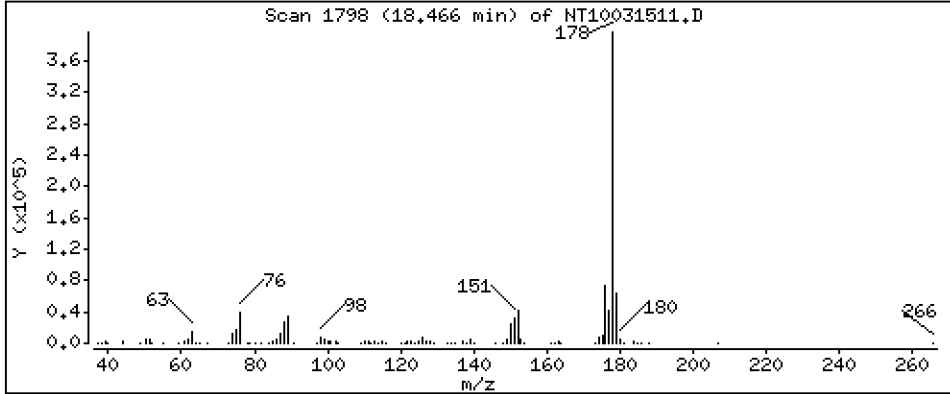
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 4,602 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

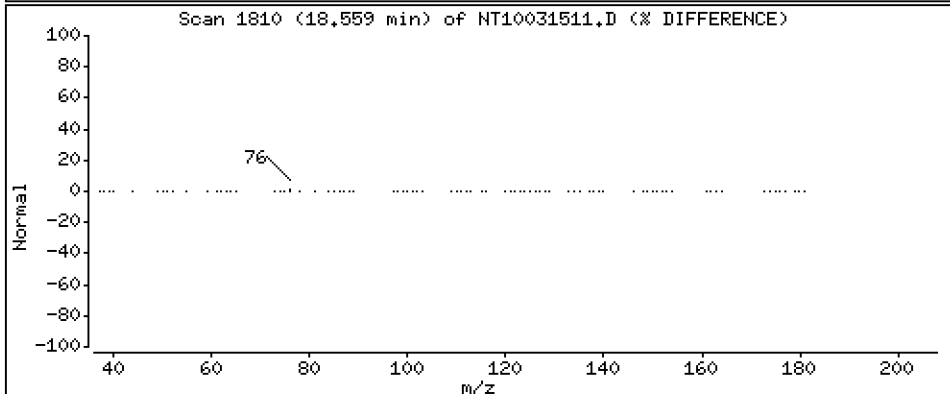
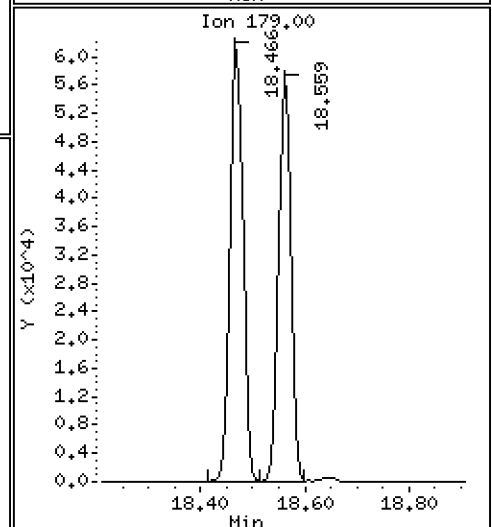
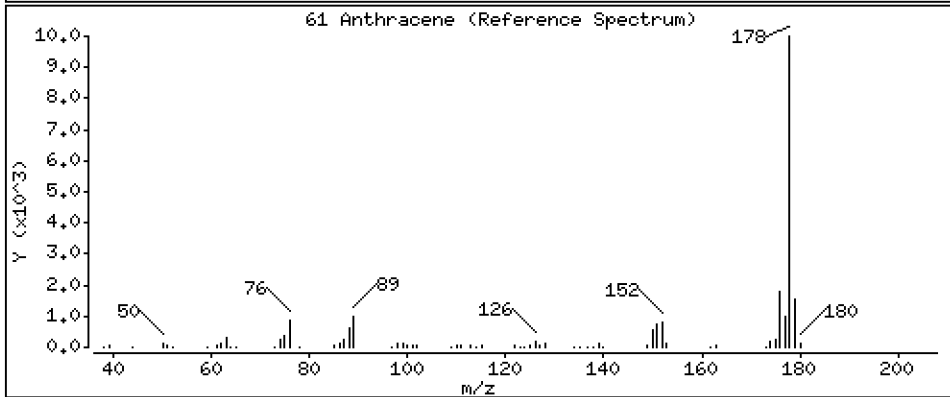
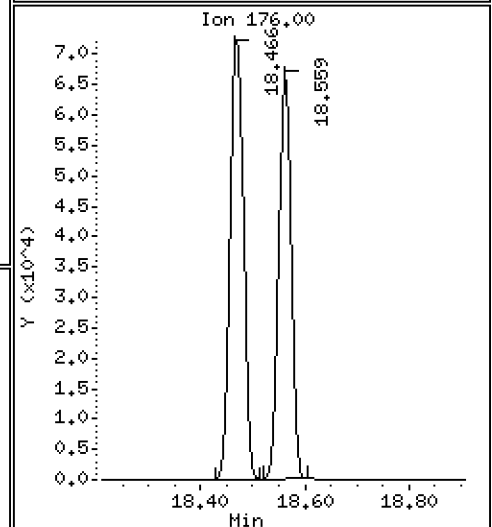
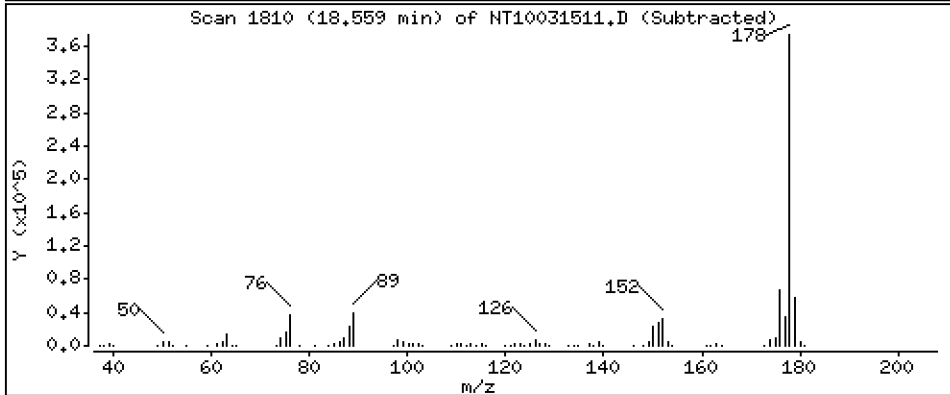
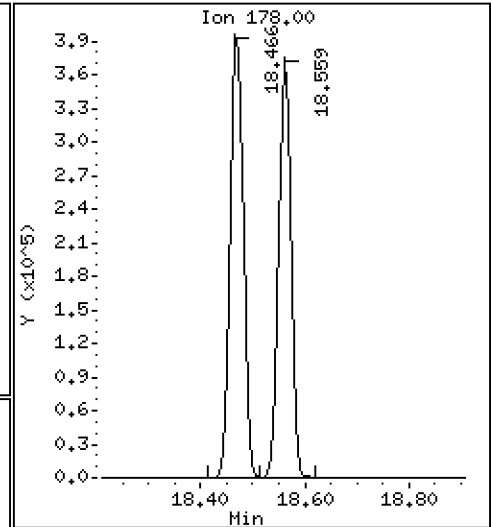
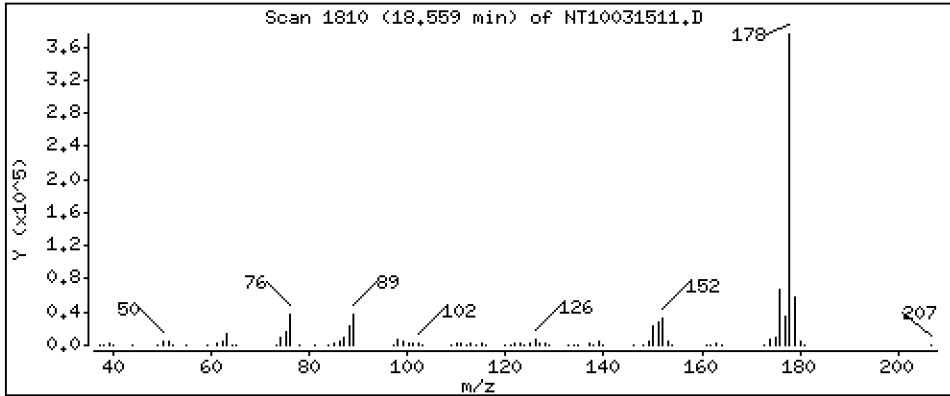
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 4,167 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

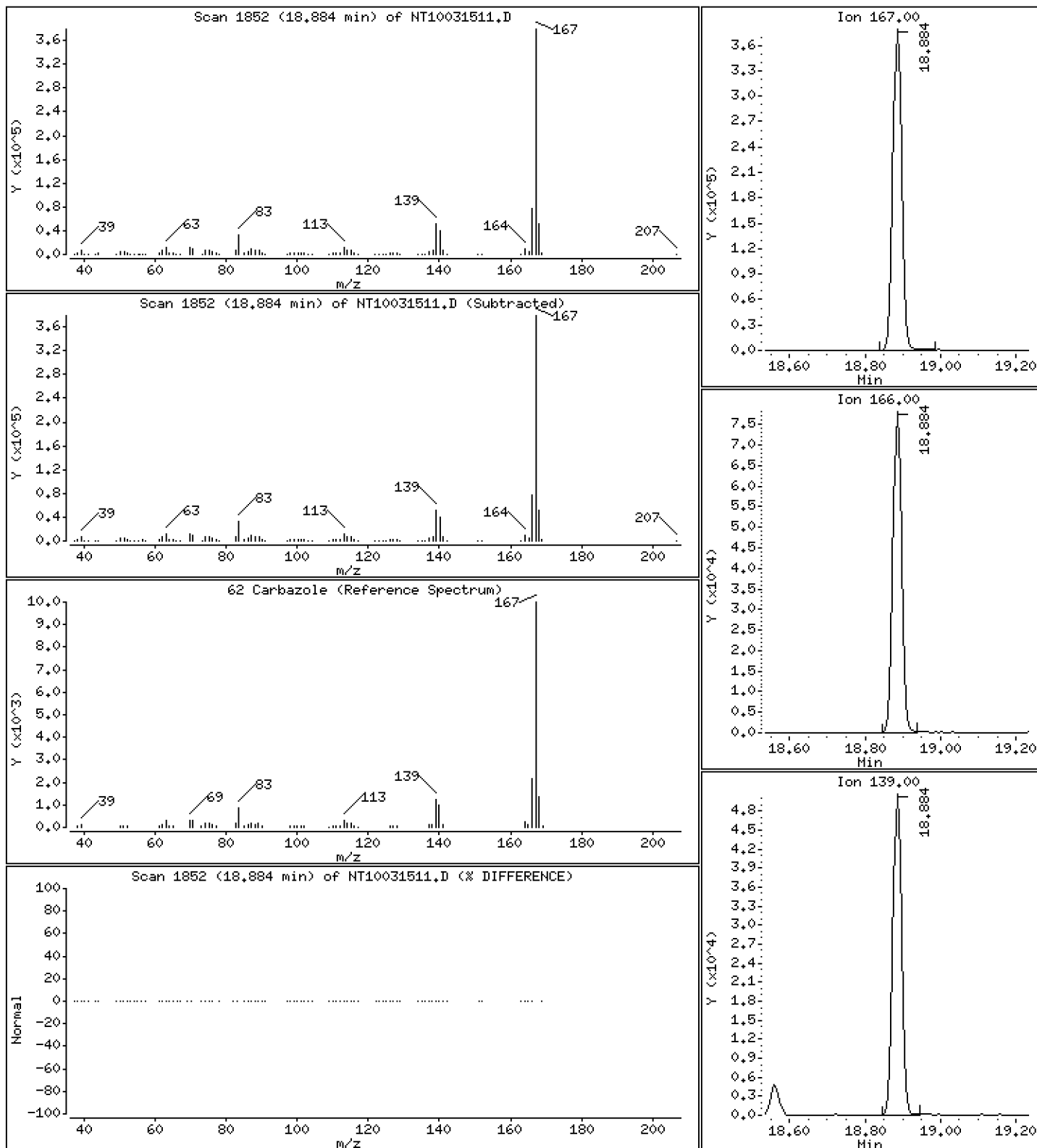
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 4,730 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

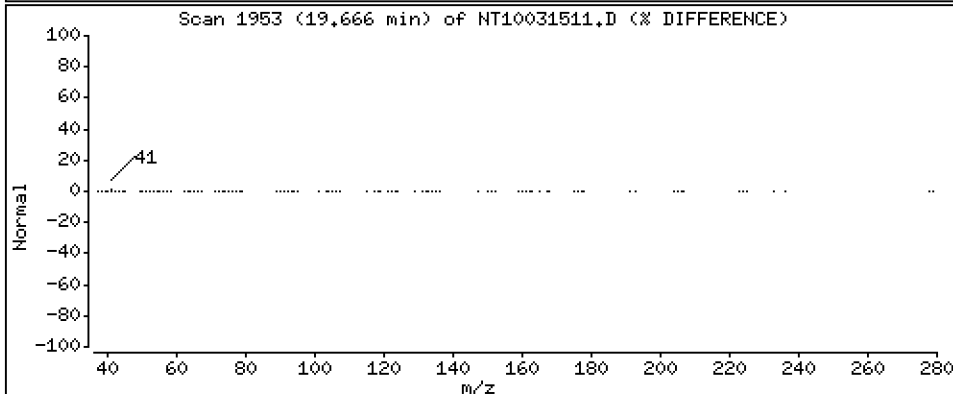
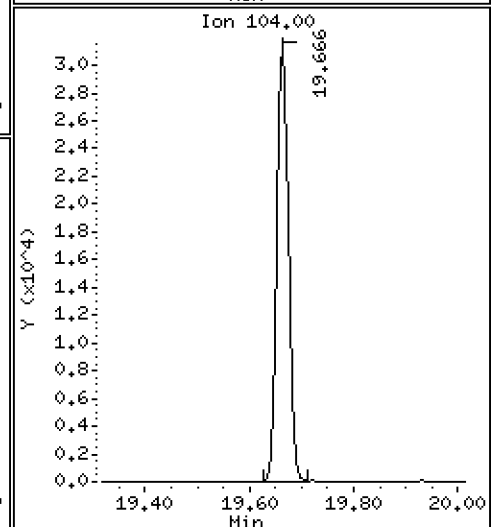
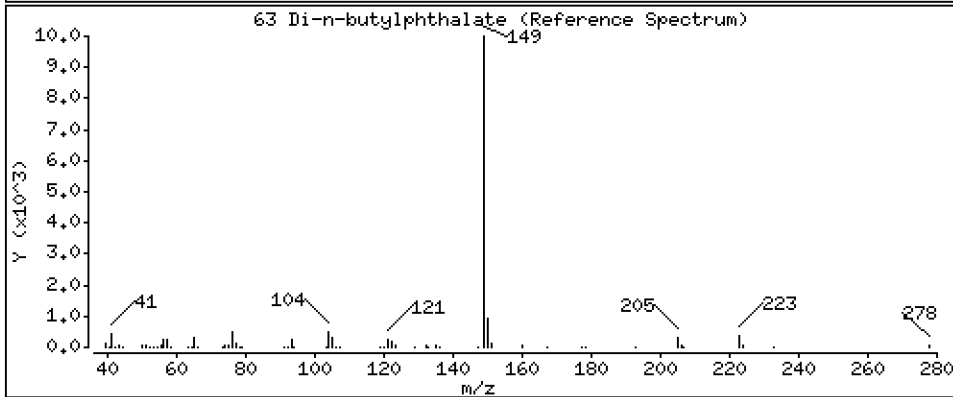
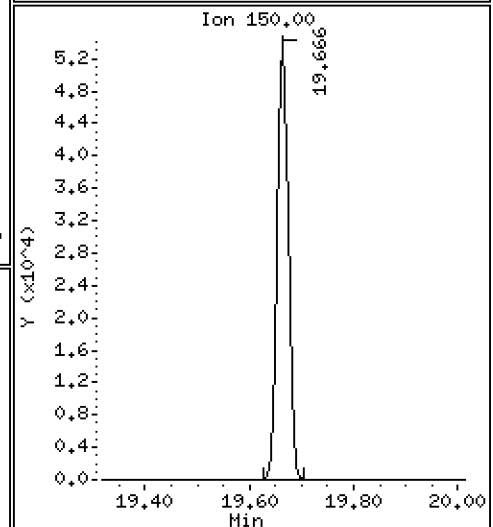
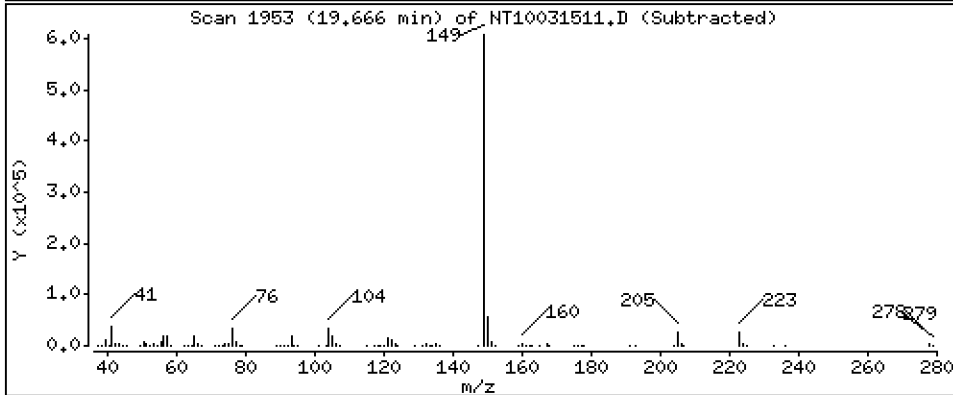
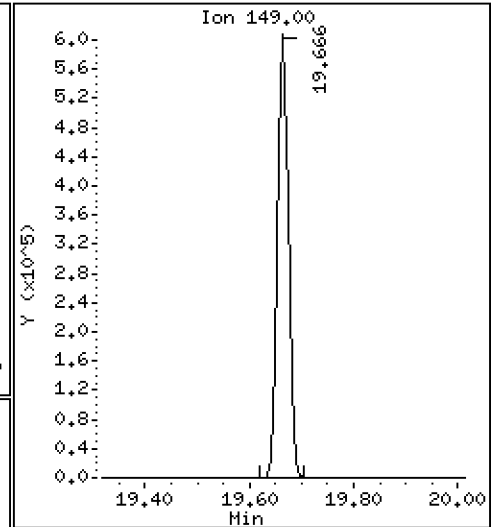
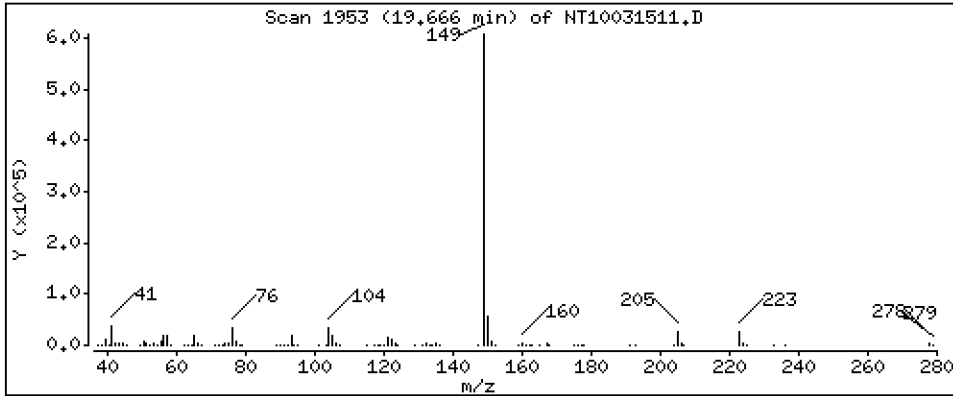
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 4,967 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

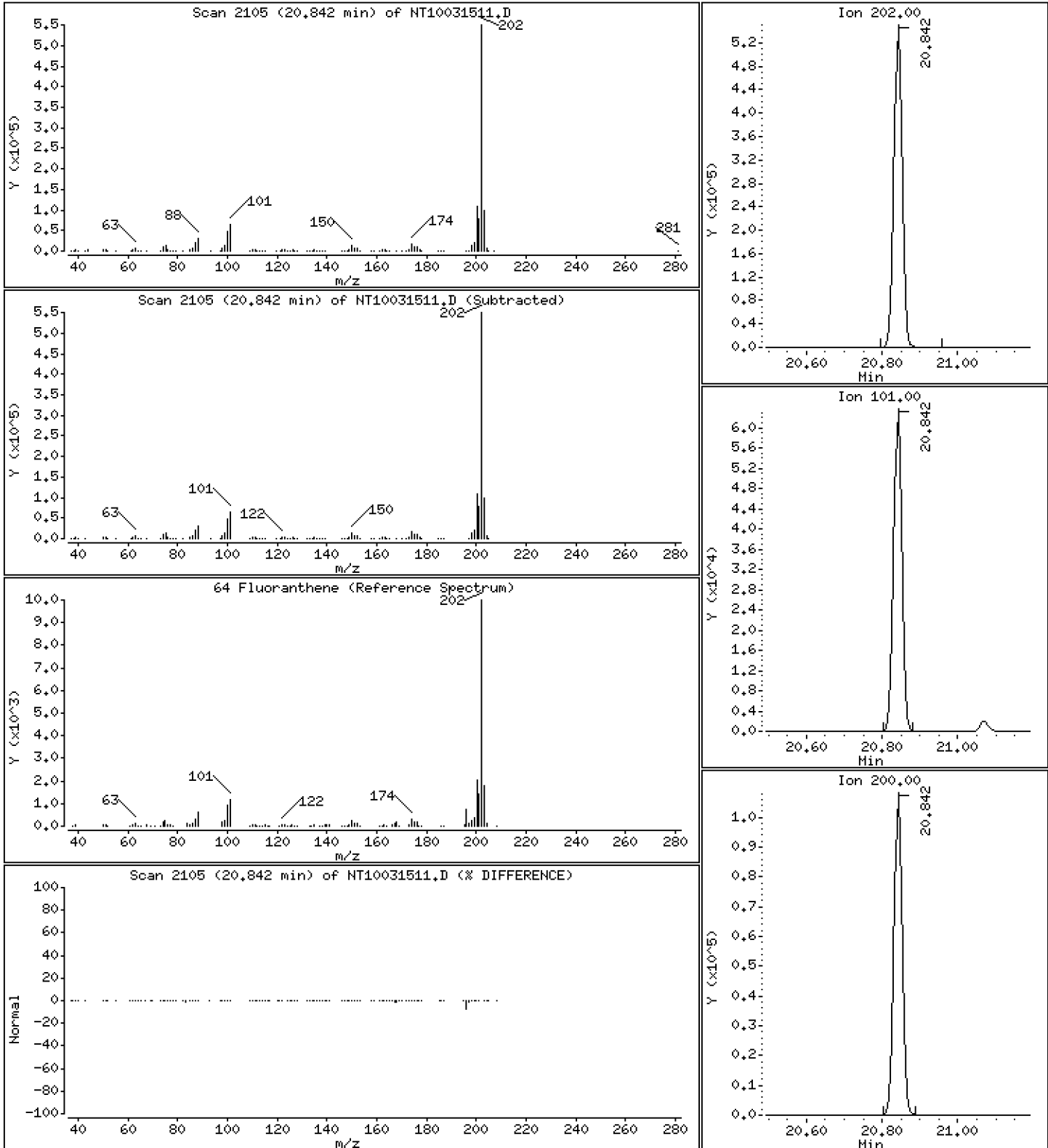
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 4,472 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

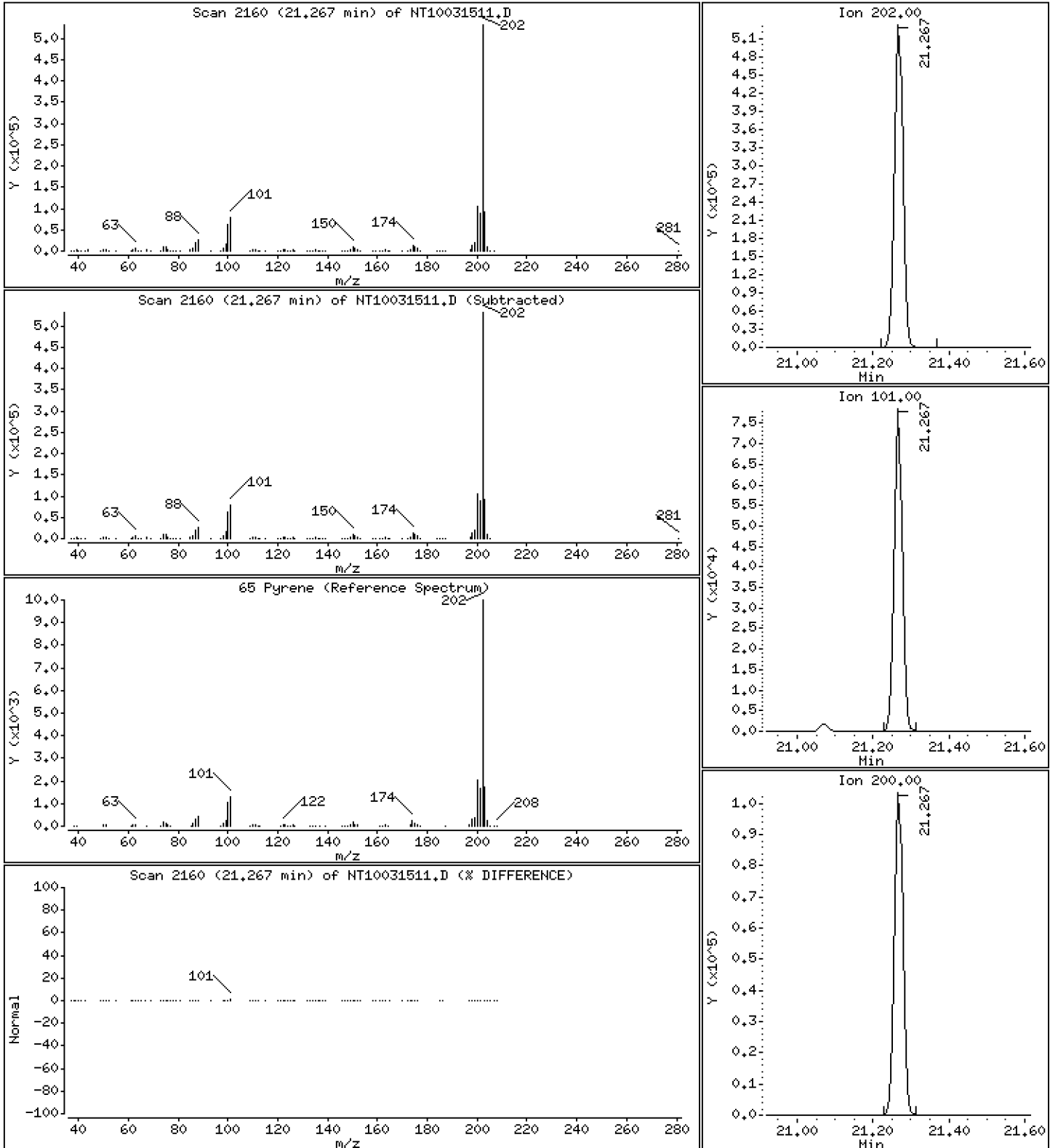
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 4,339 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

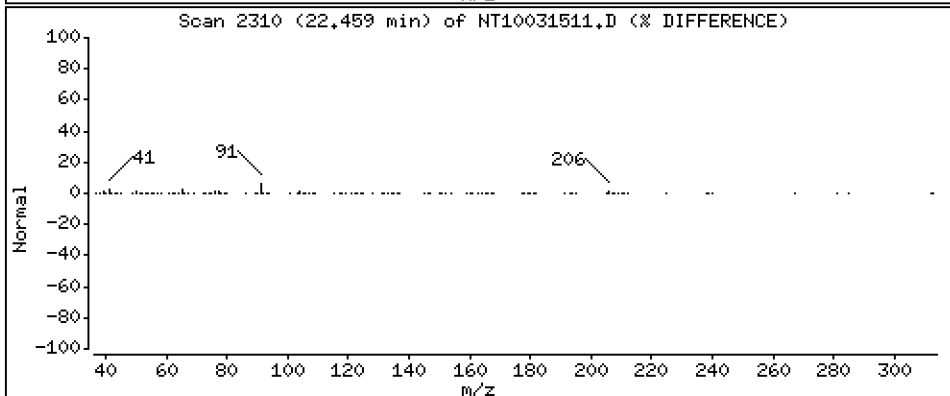
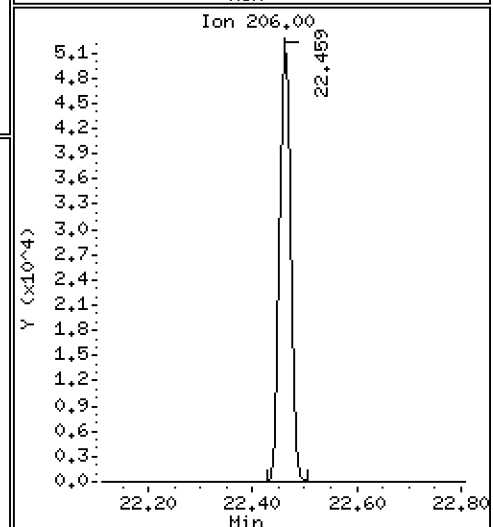
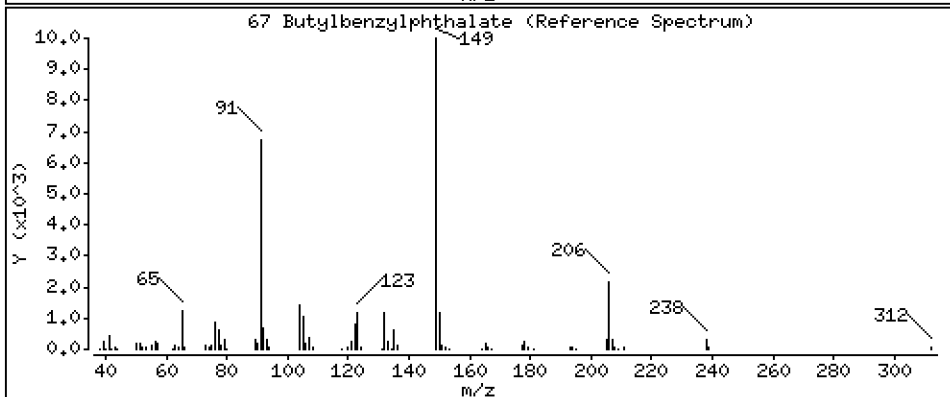
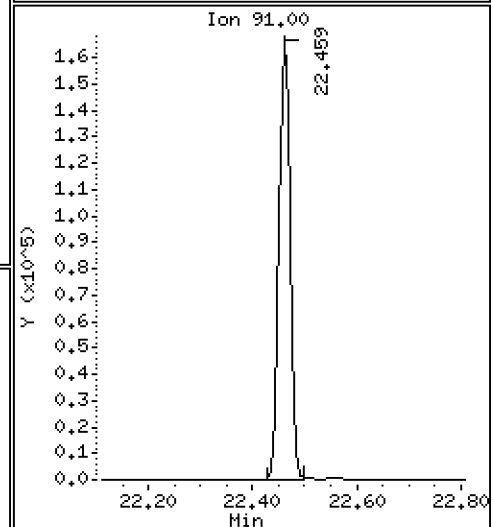
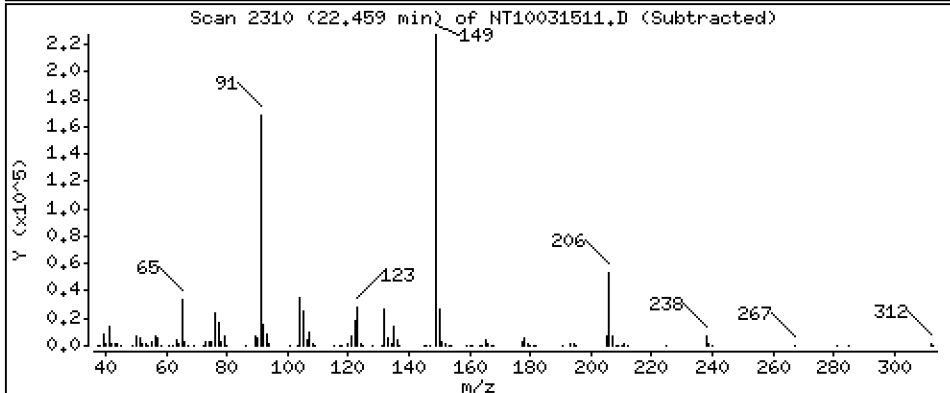
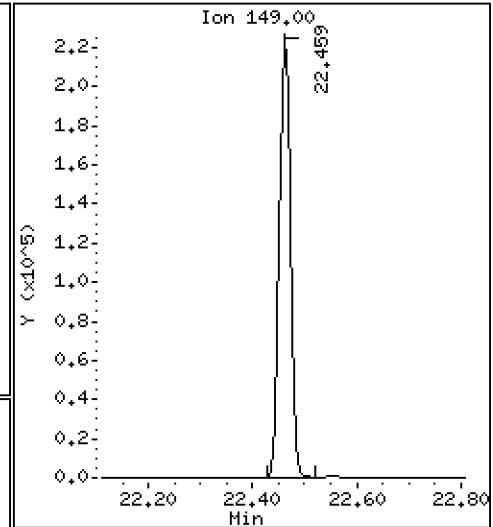
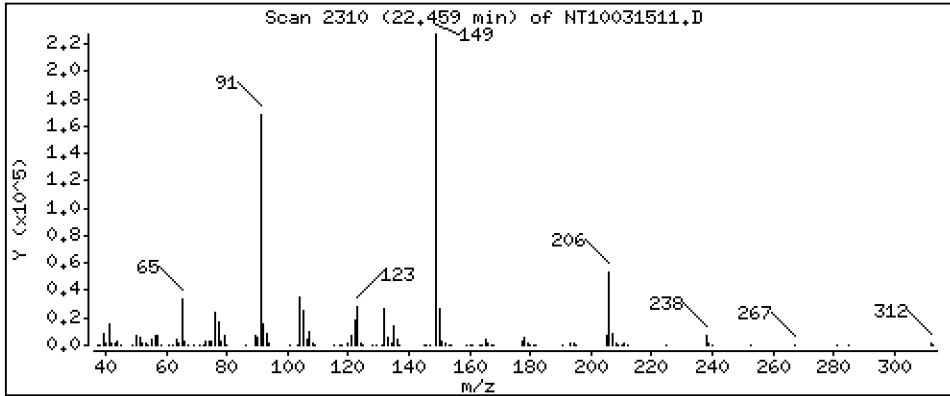
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 4,834 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

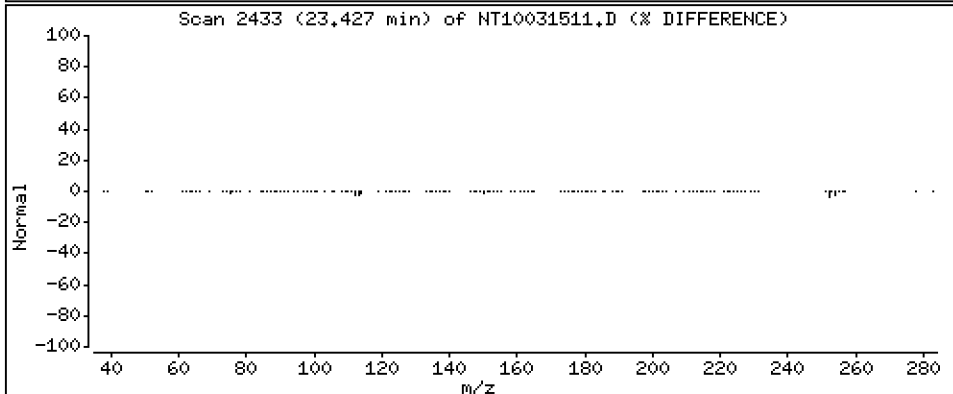
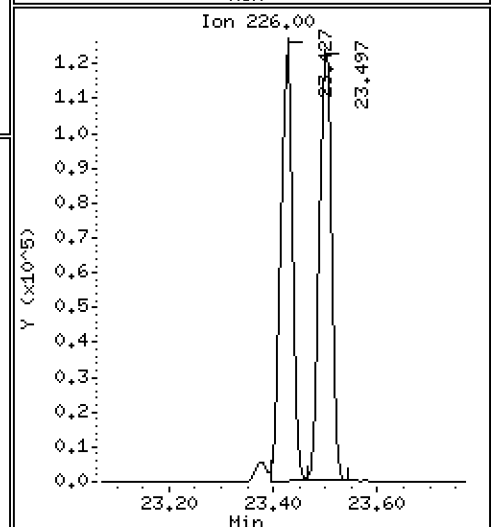
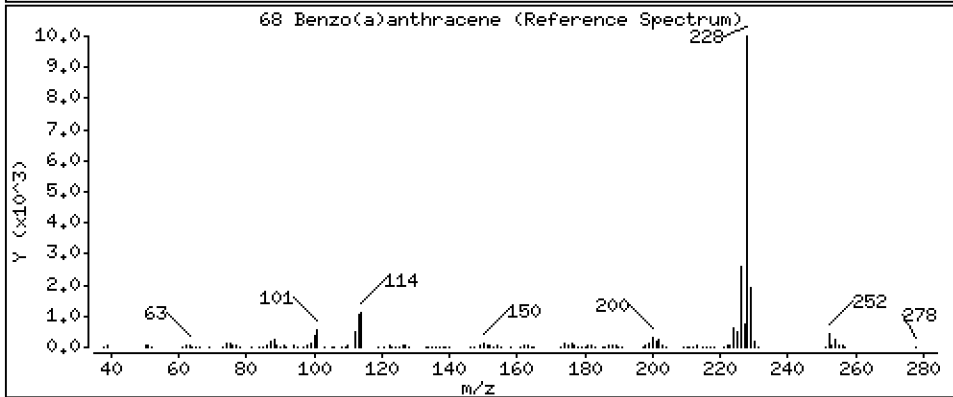
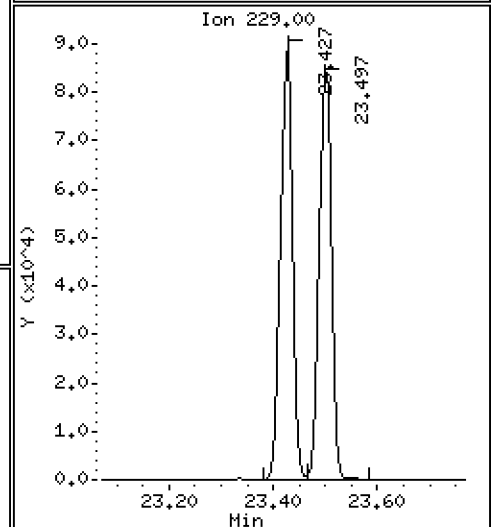
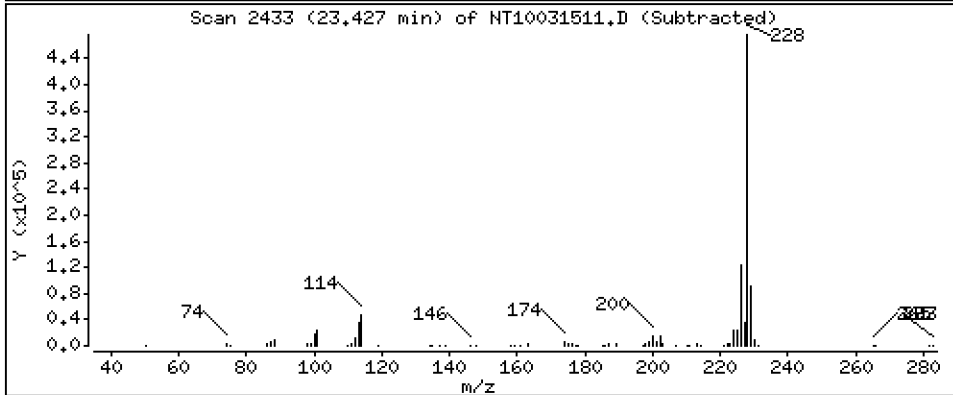
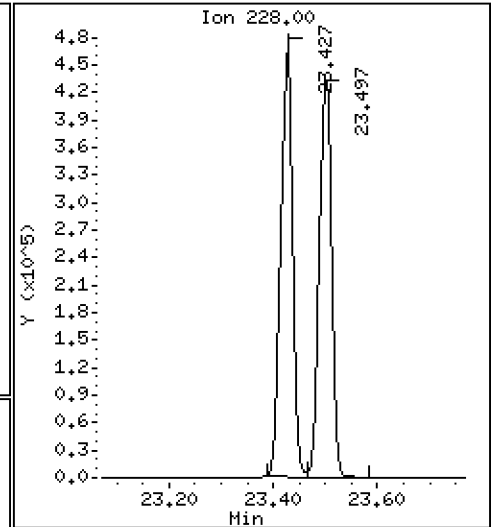
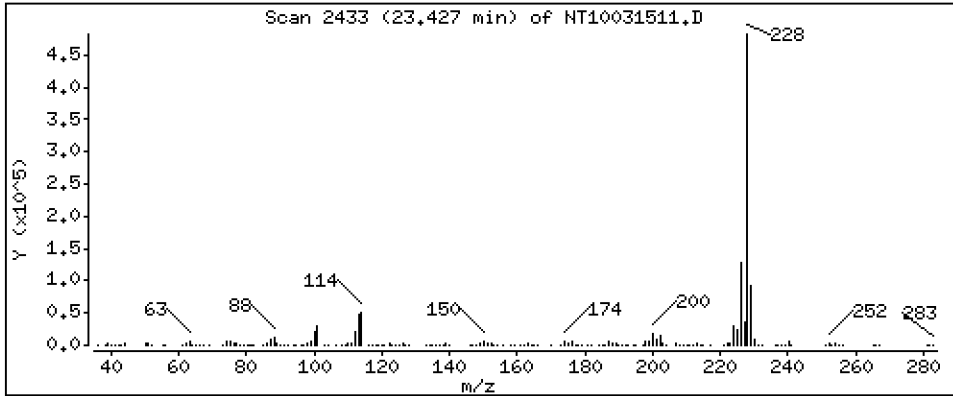
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 4,647 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

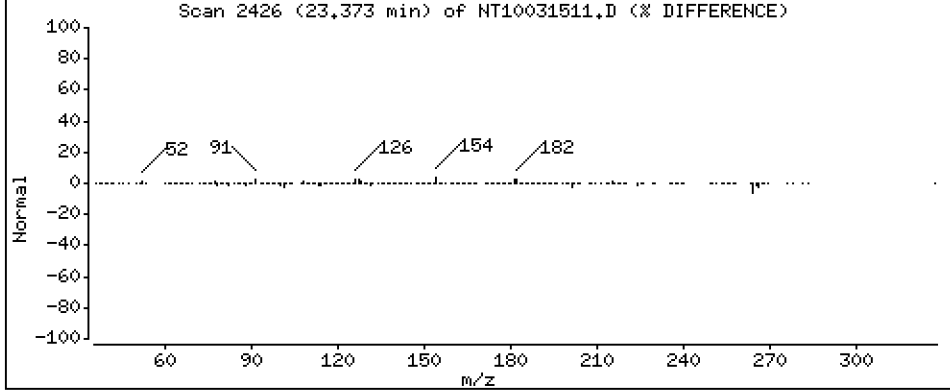
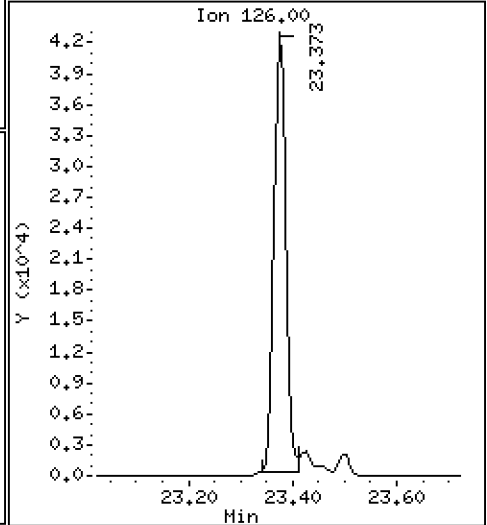
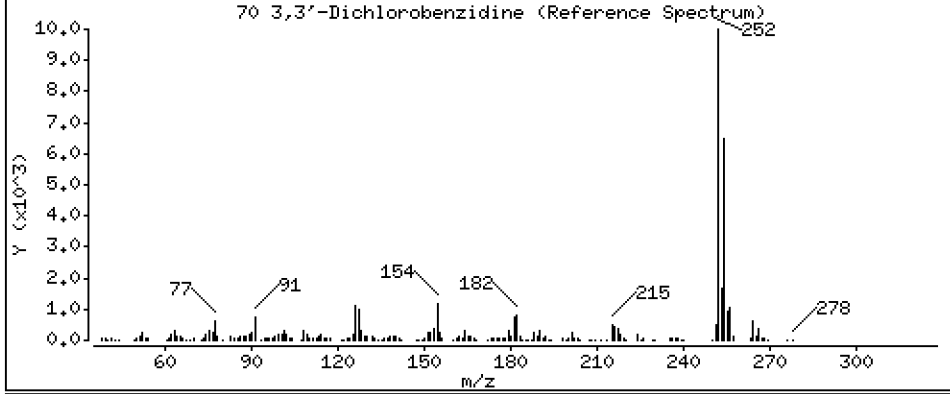
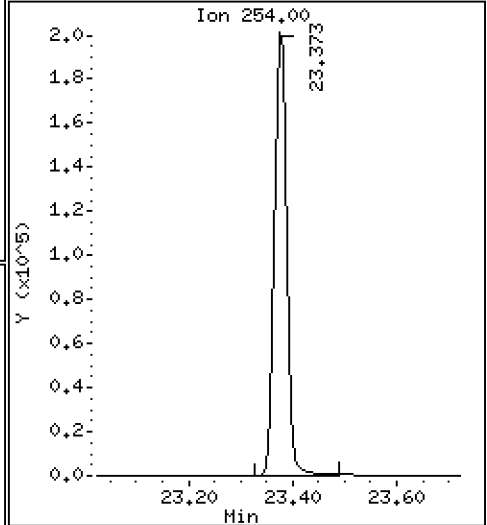
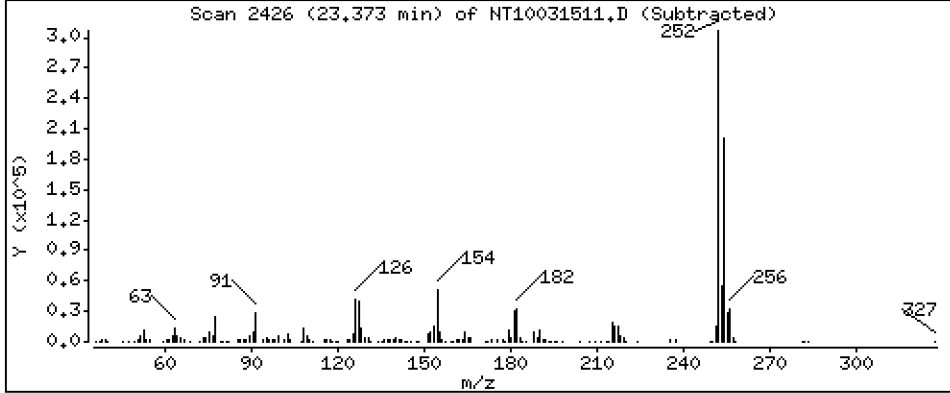
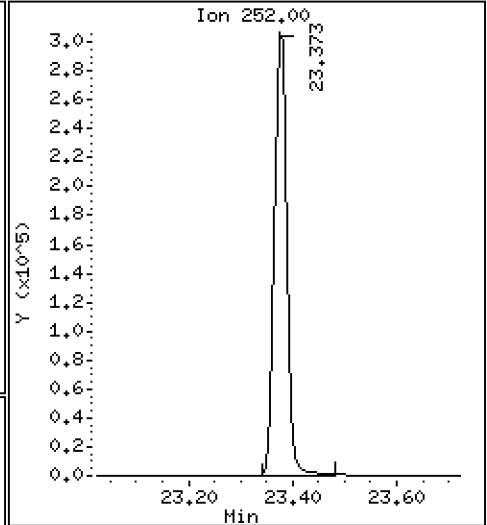
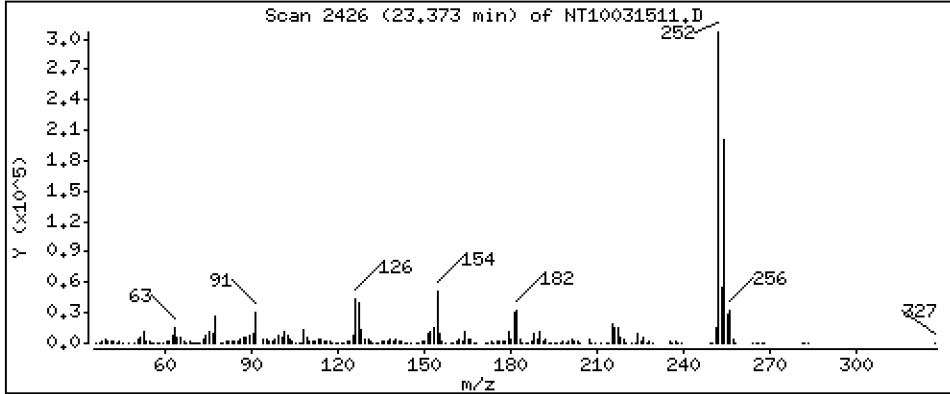
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

70 3,3'-Dichlorobenzidine

Concentration: 9,817 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

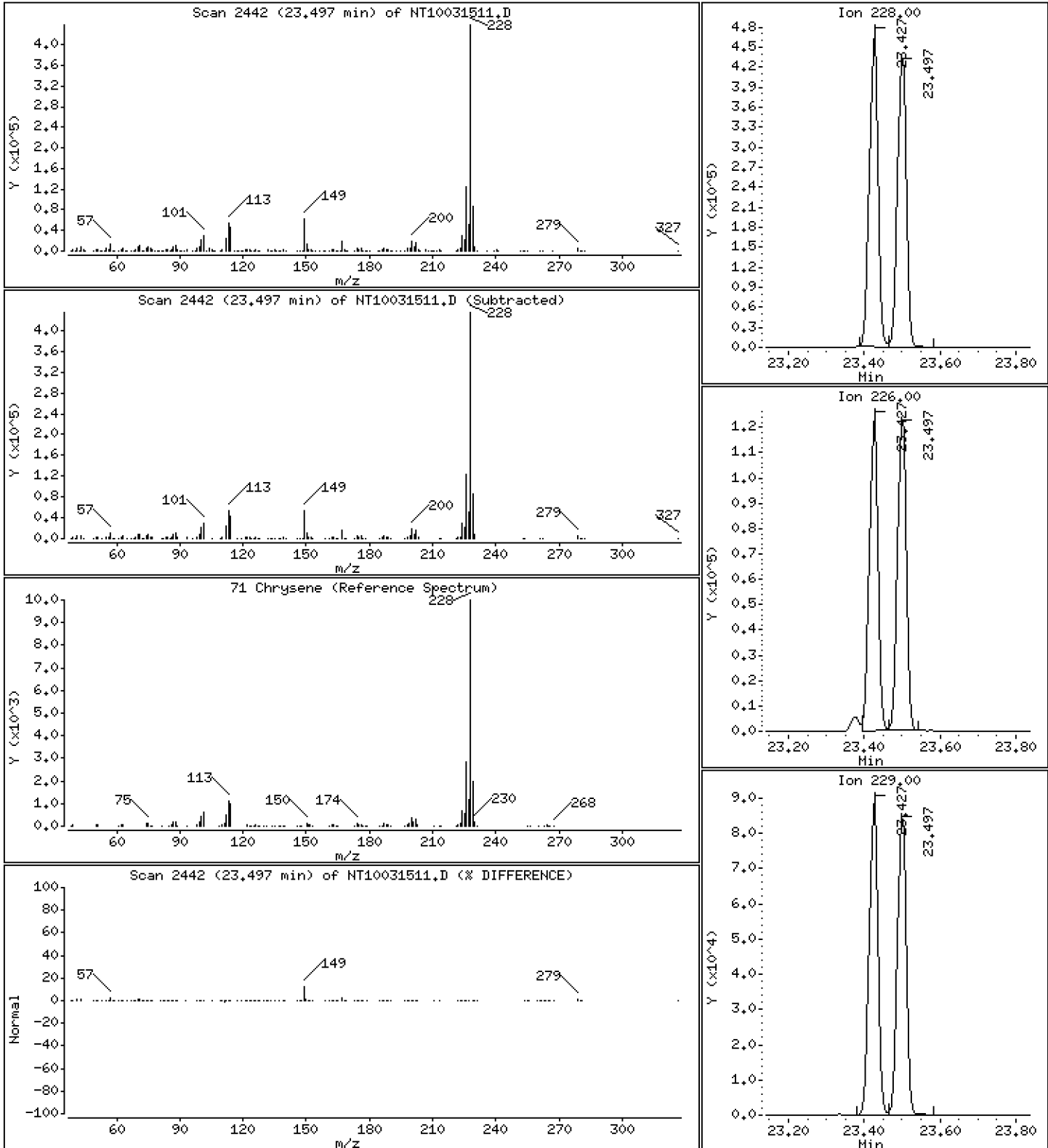
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 4,510 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

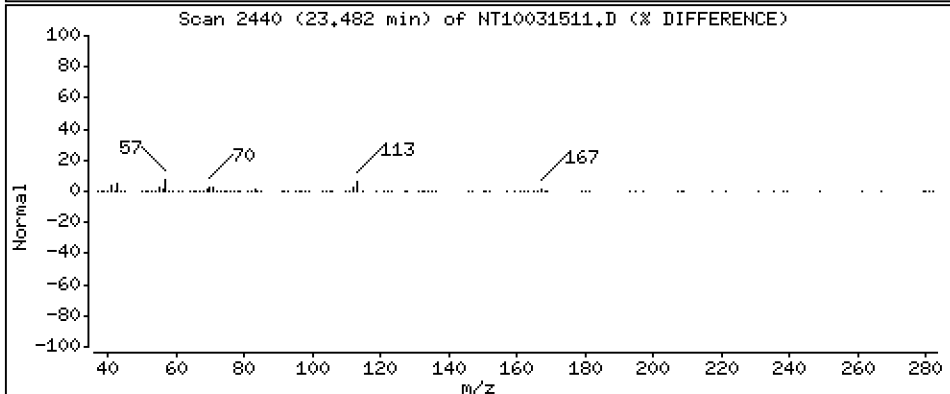
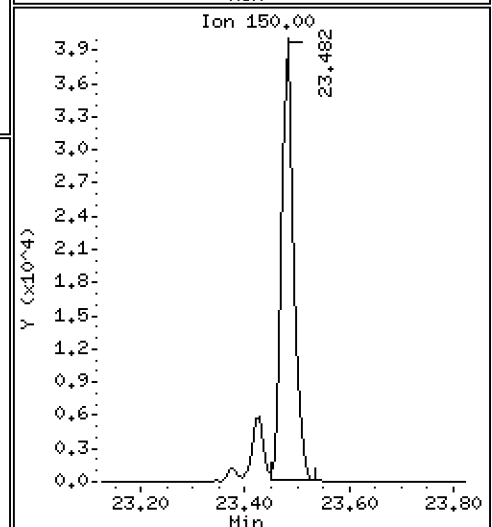
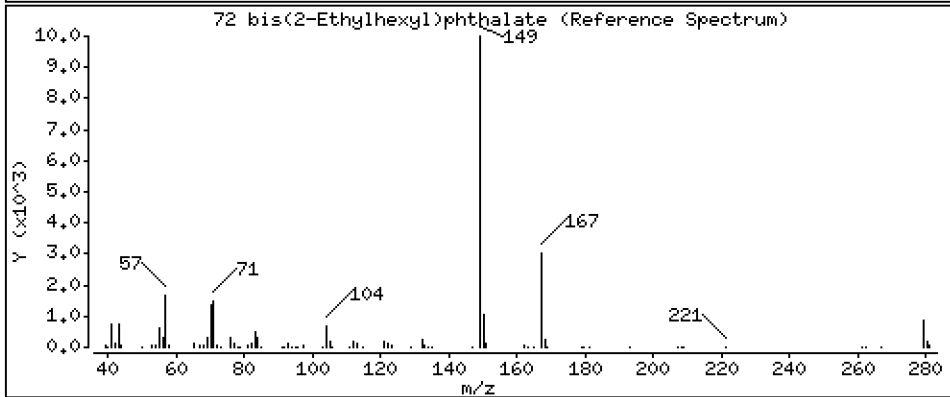
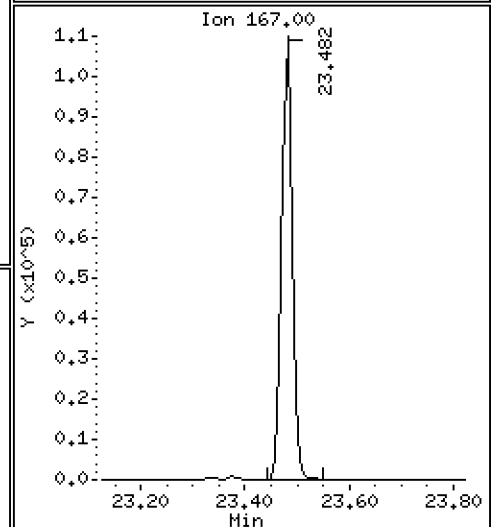
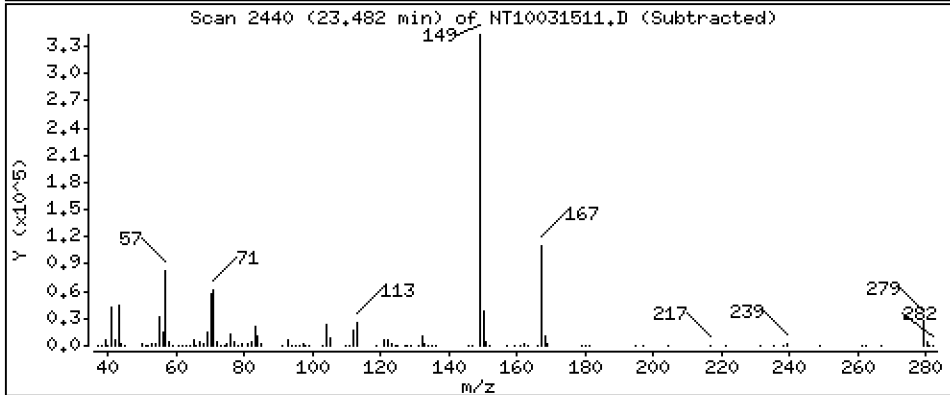
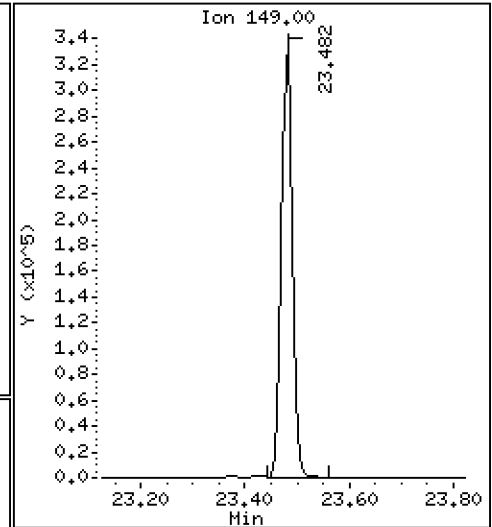
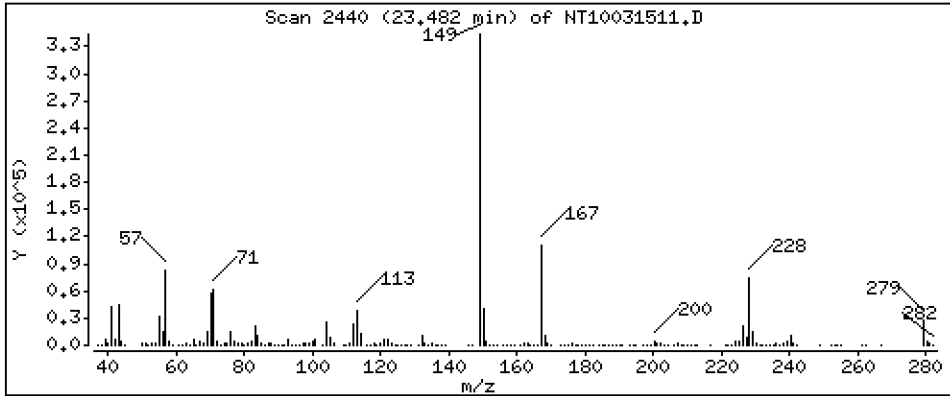
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 4,680 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

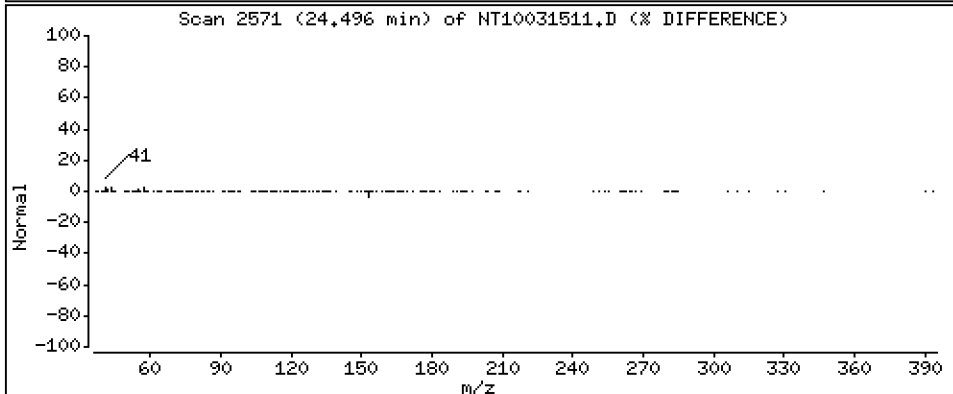
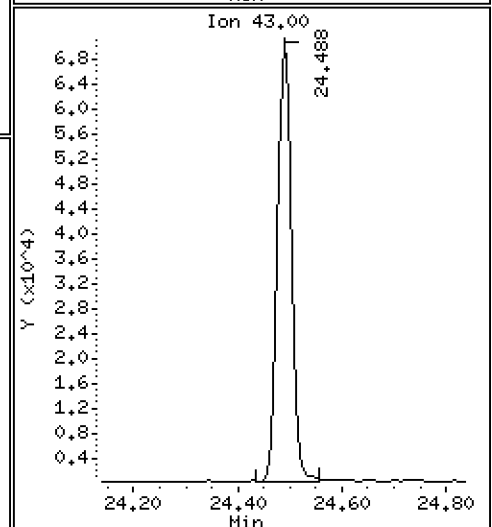
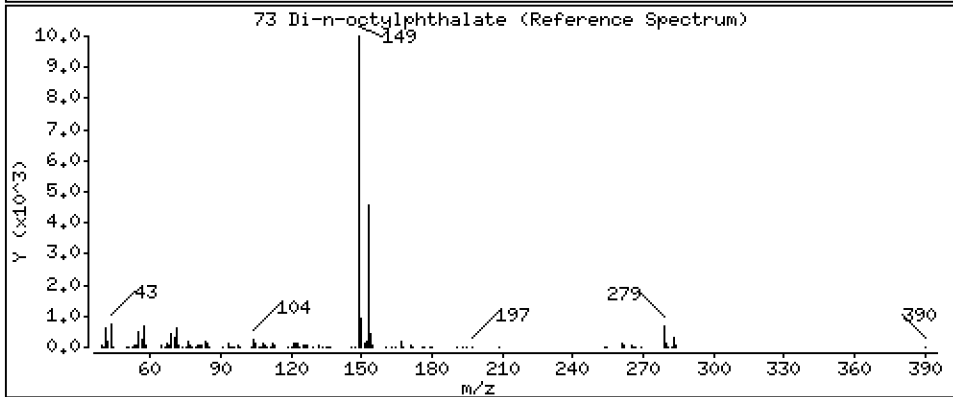
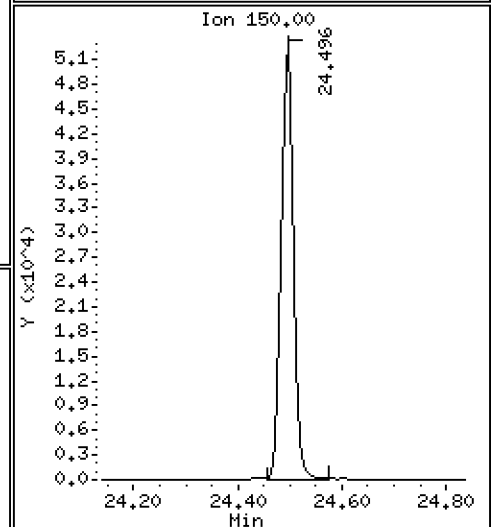
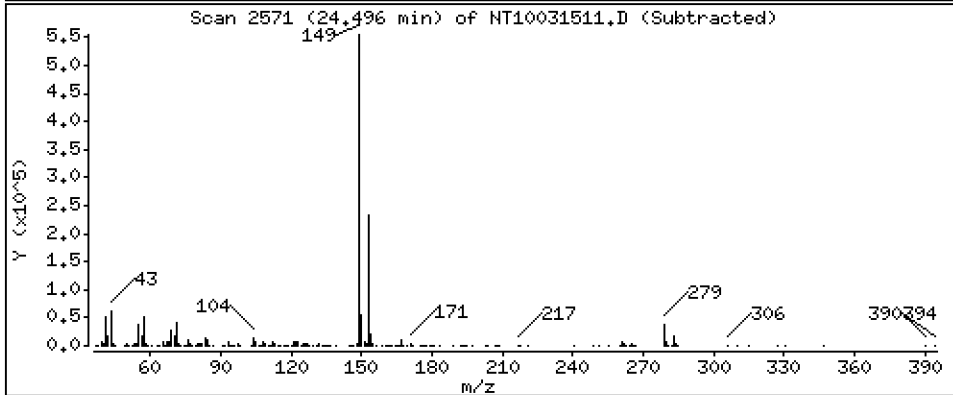
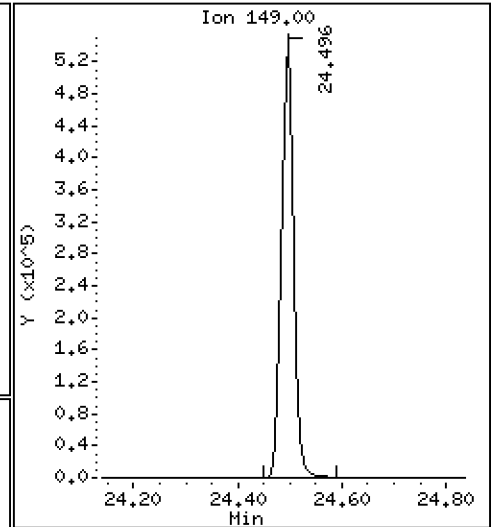
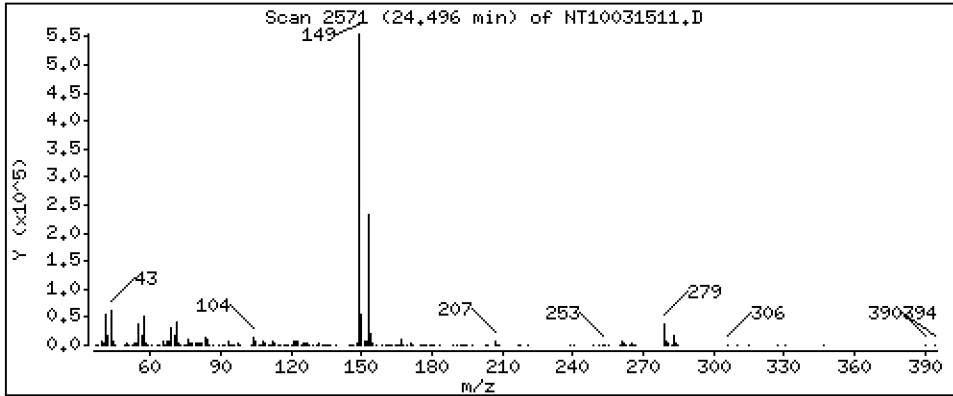
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 4,947 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

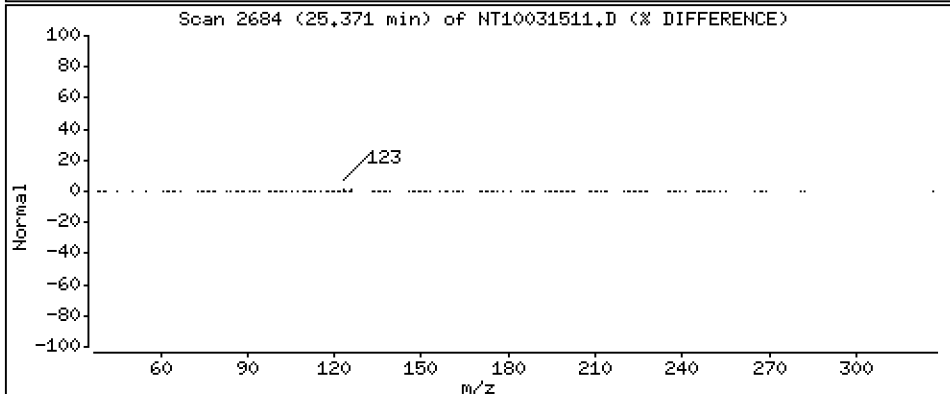
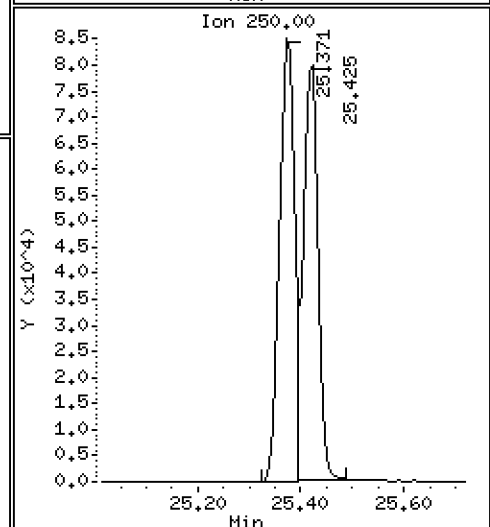
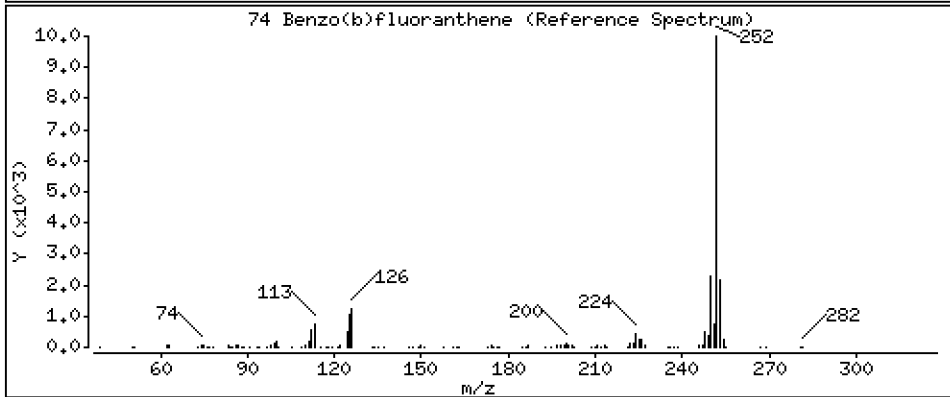
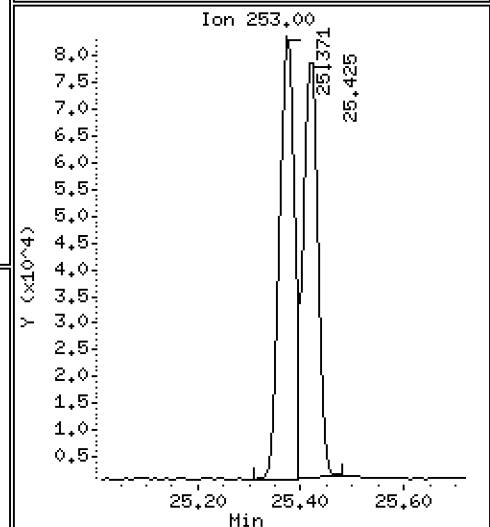
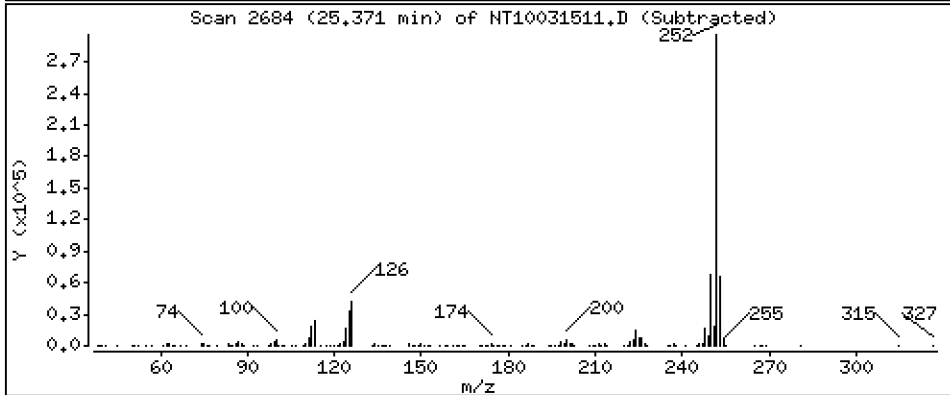
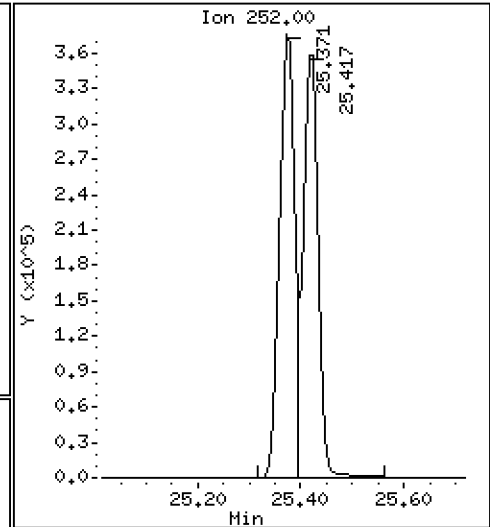
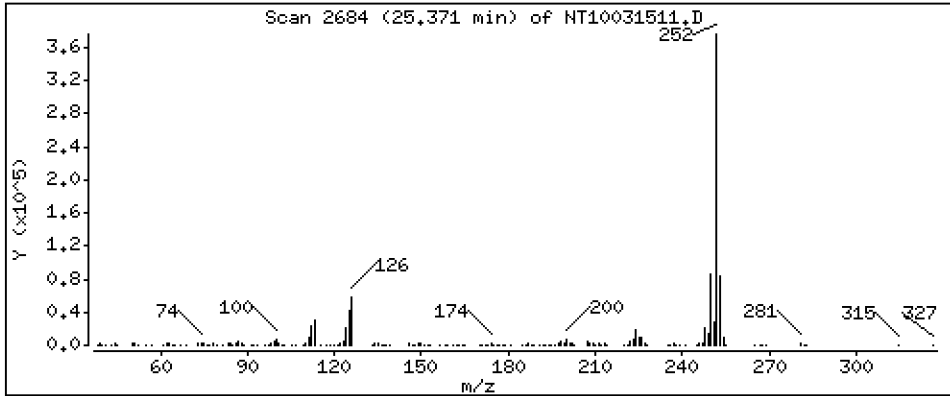
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 4,602 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

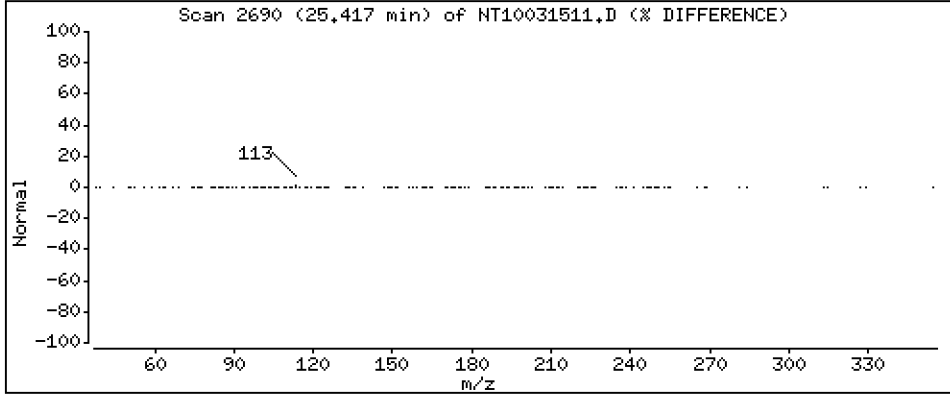
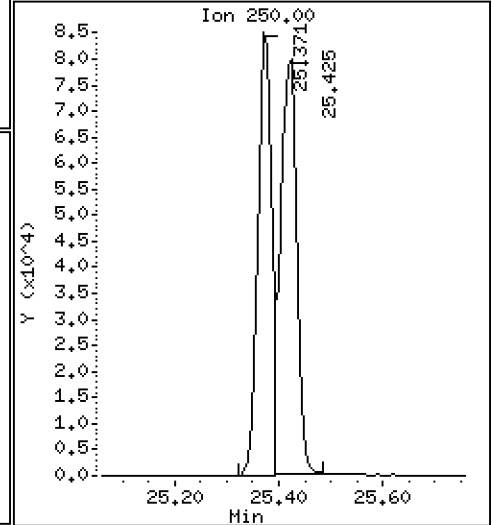
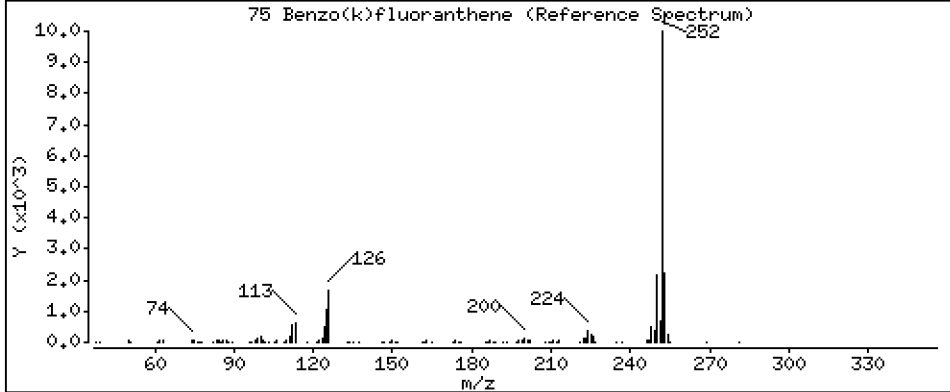
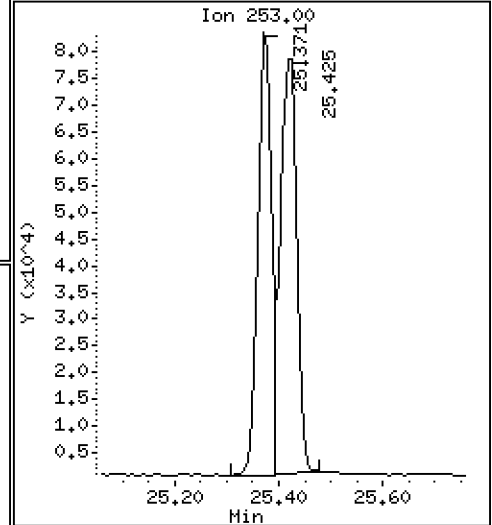
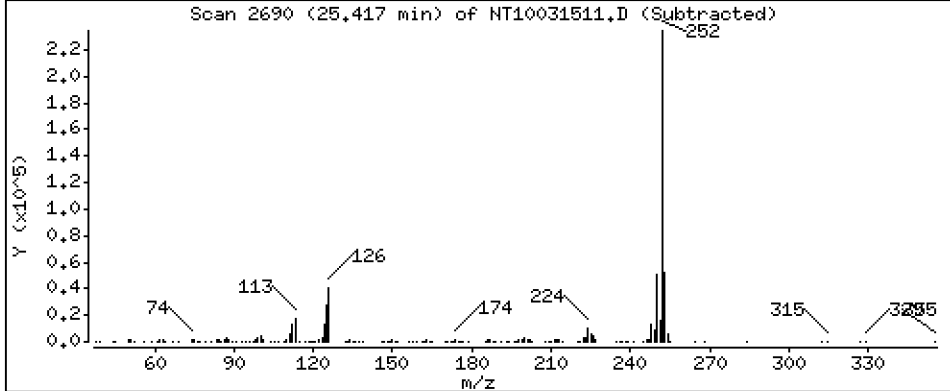
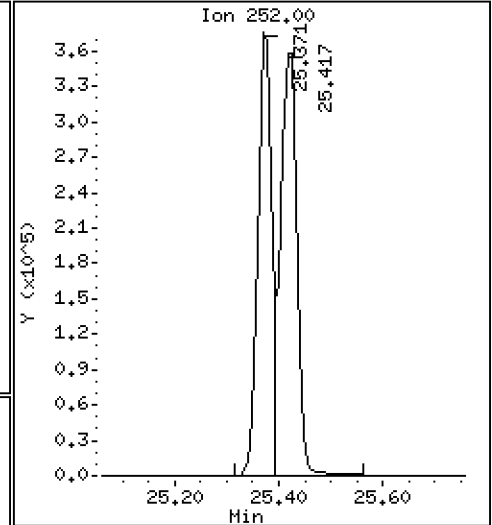
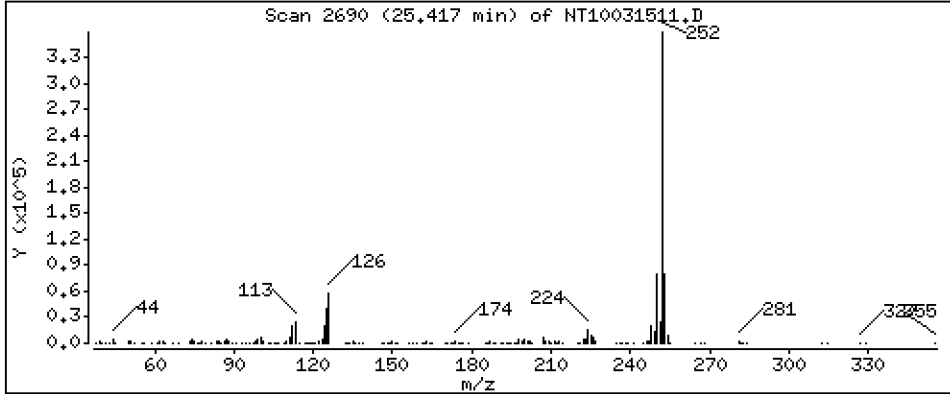
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 4,898 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

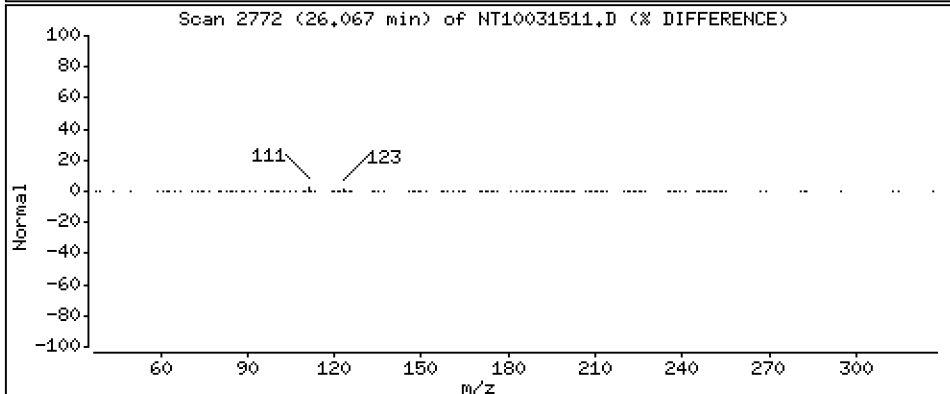
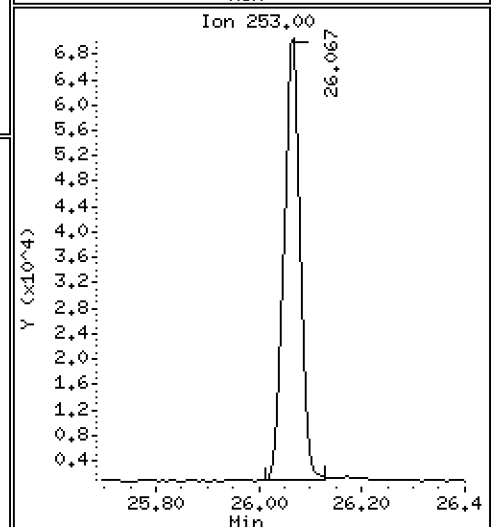
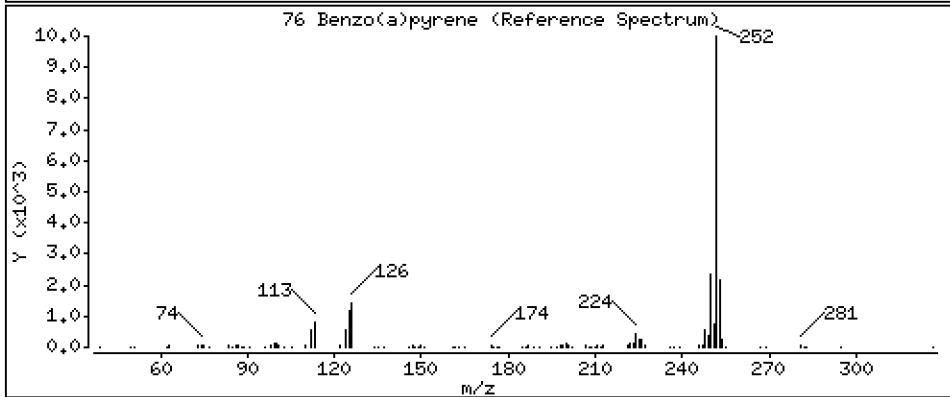
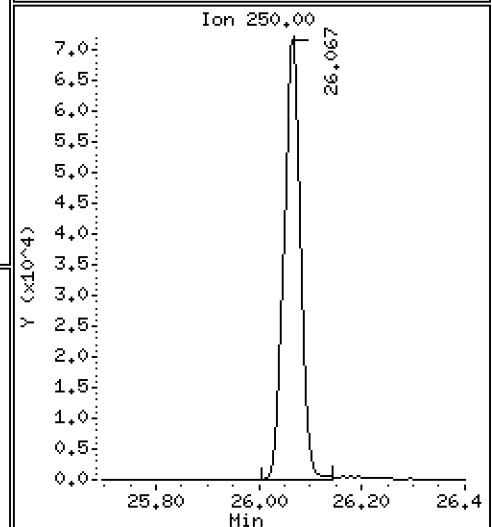
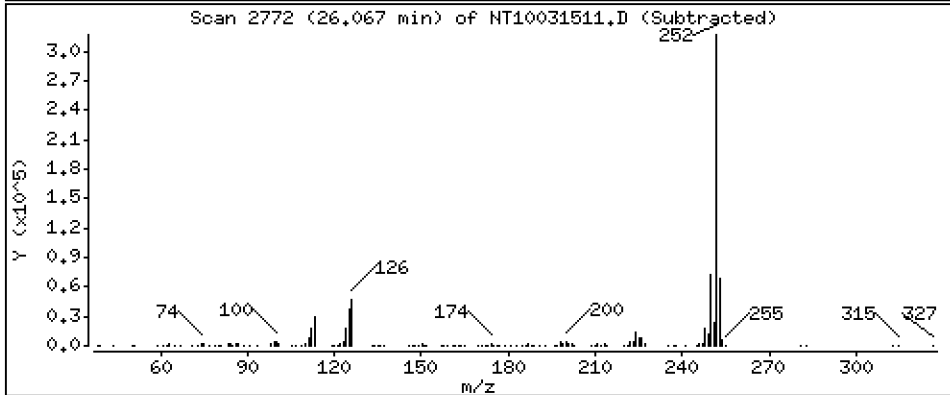
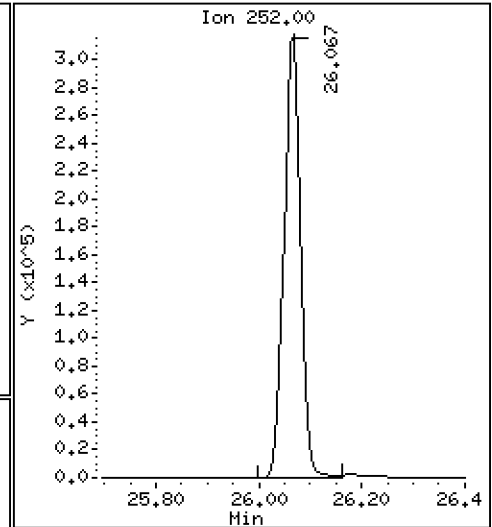
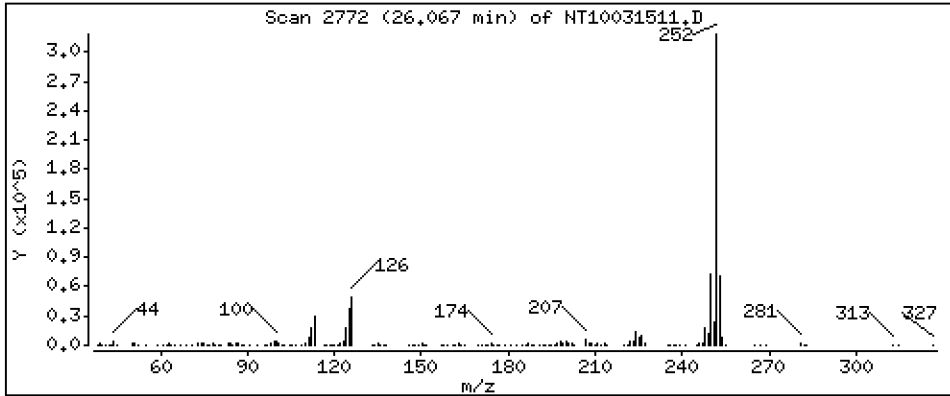
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 4,873 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

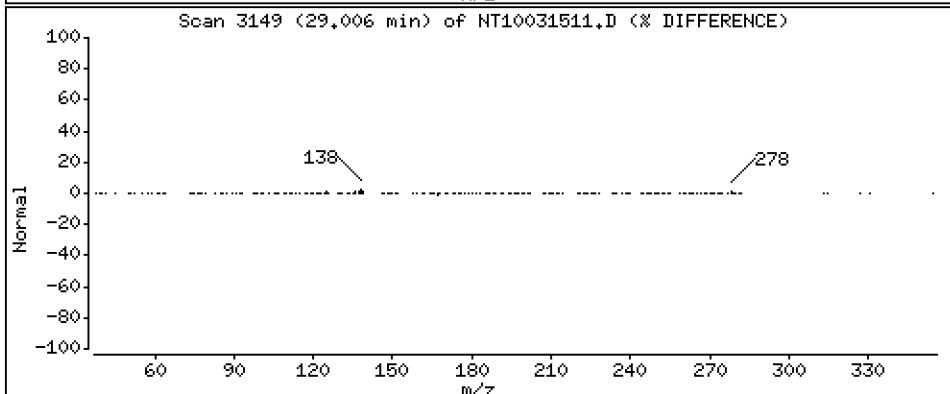
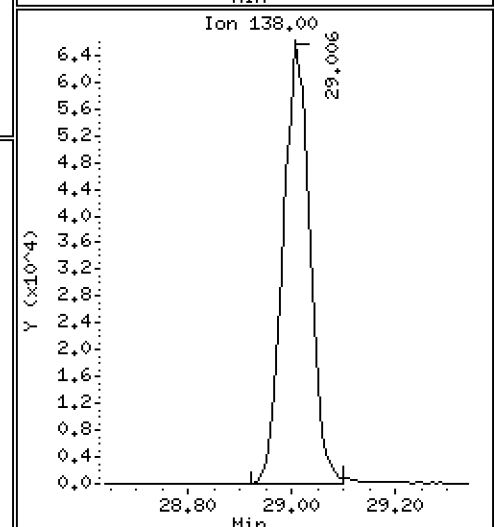
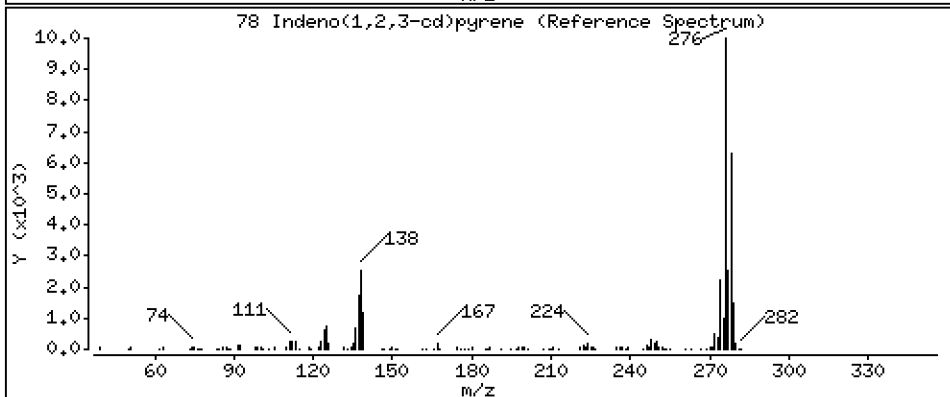
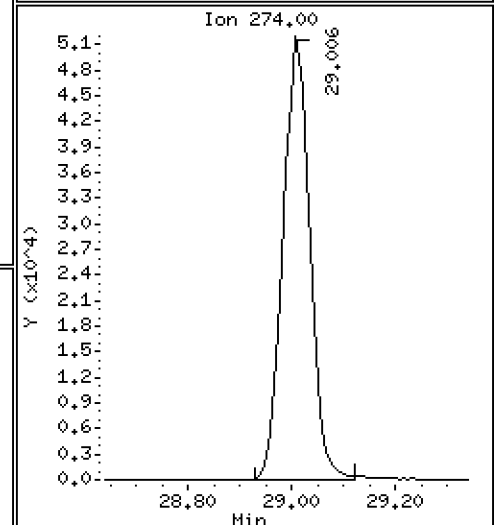
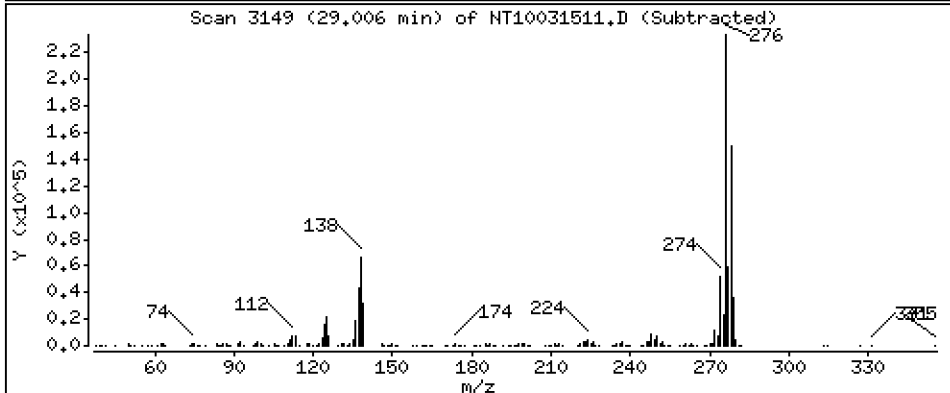
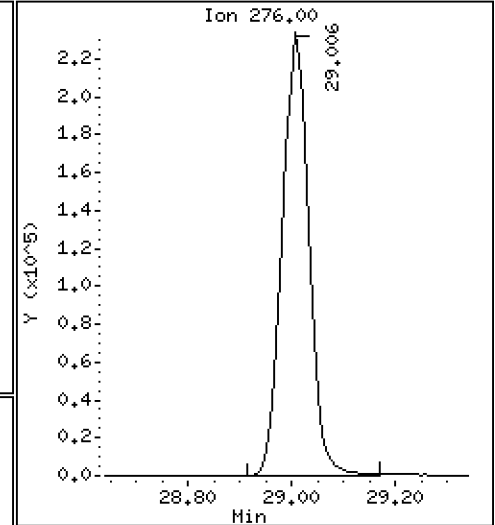
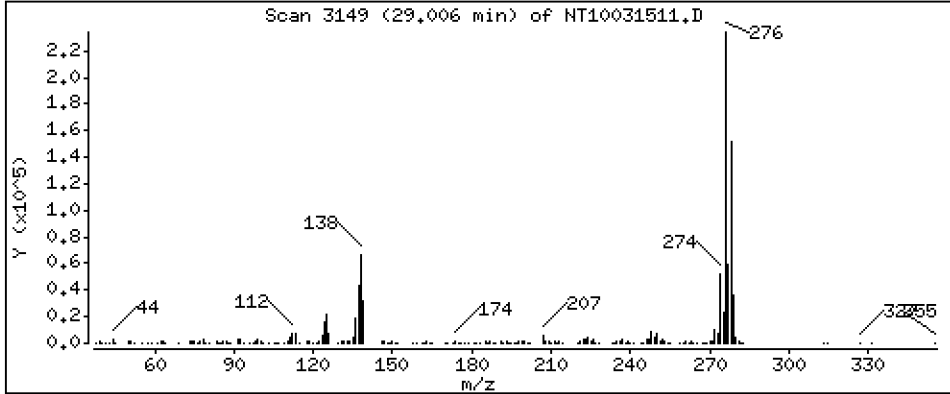
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 4,577 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

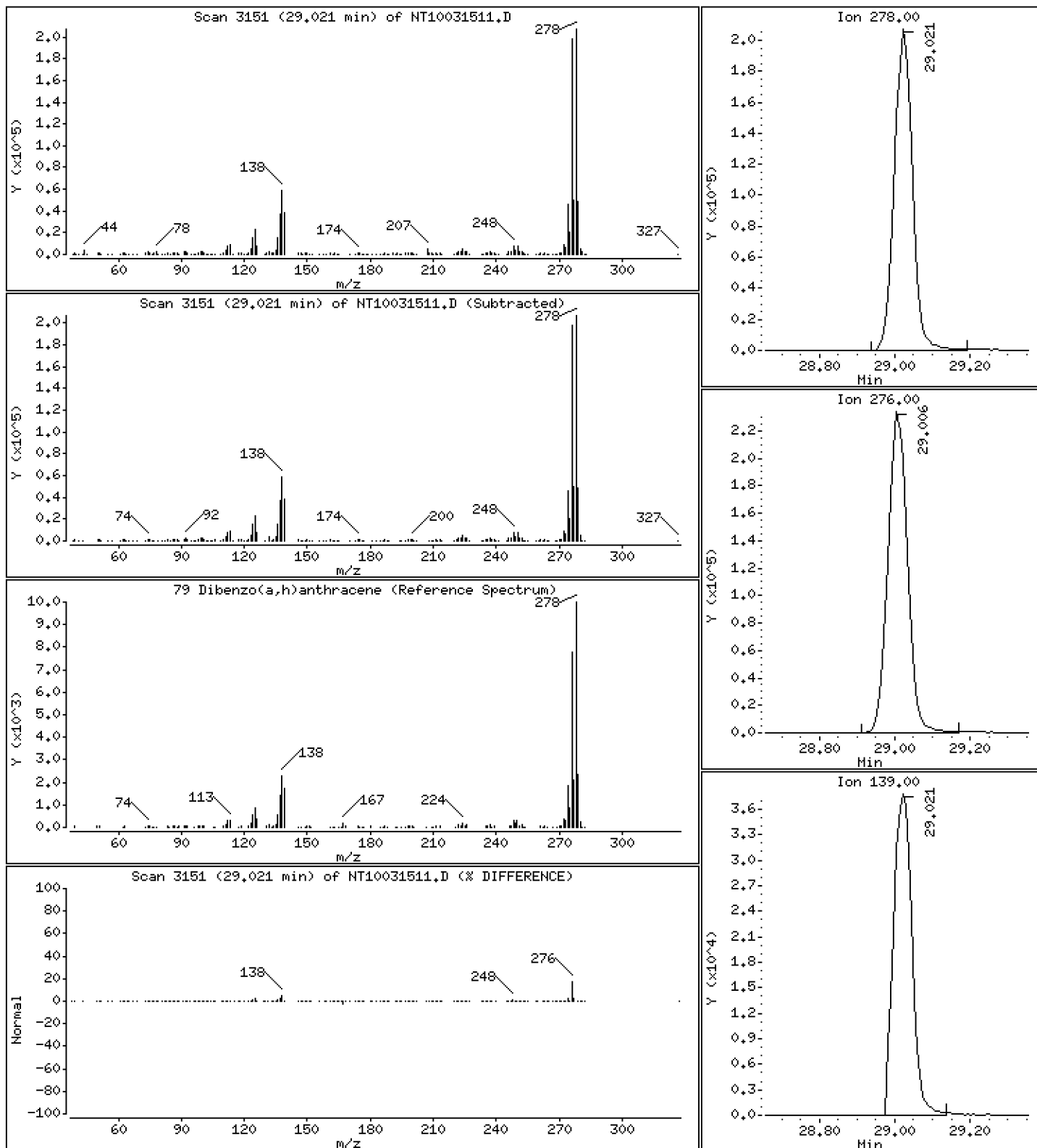
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 4,547 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

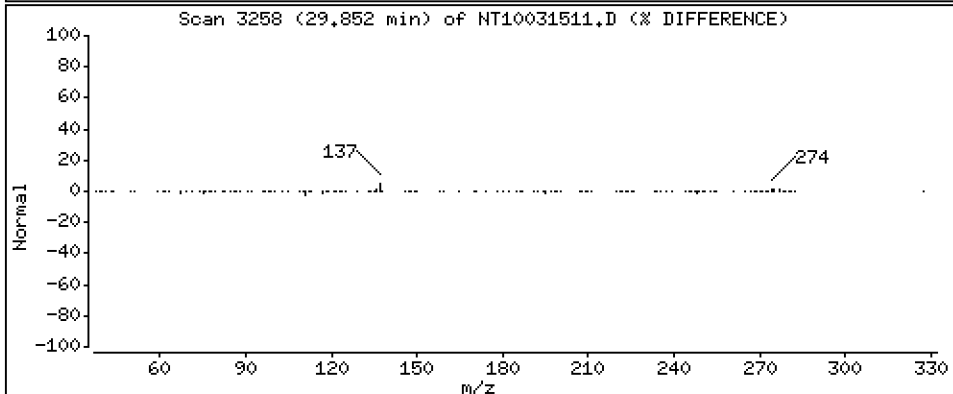
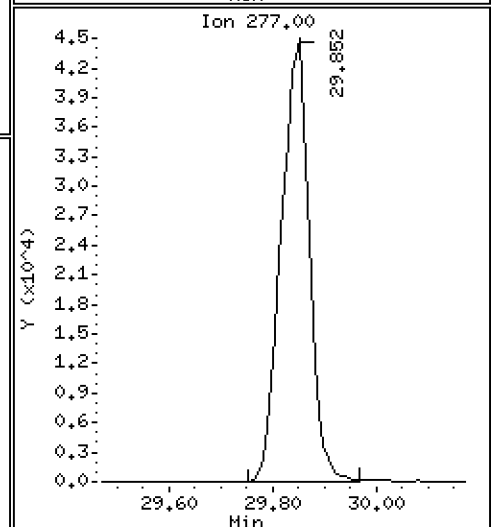
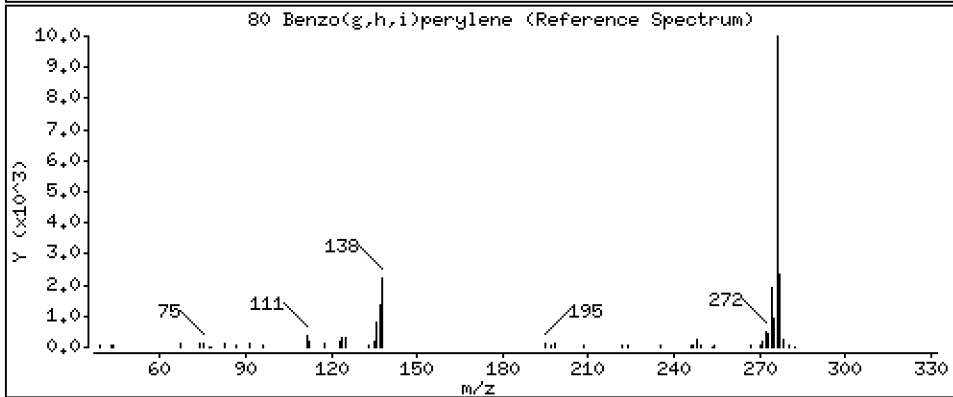
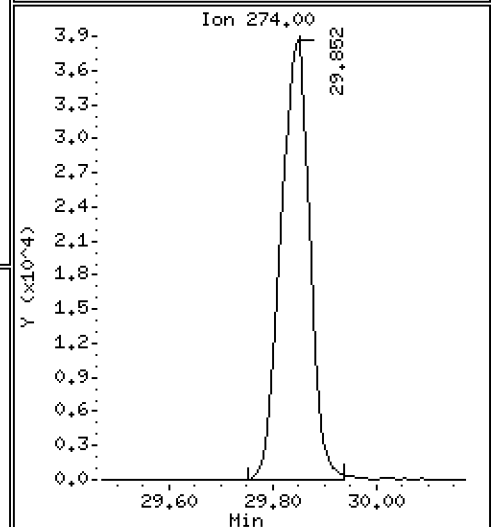
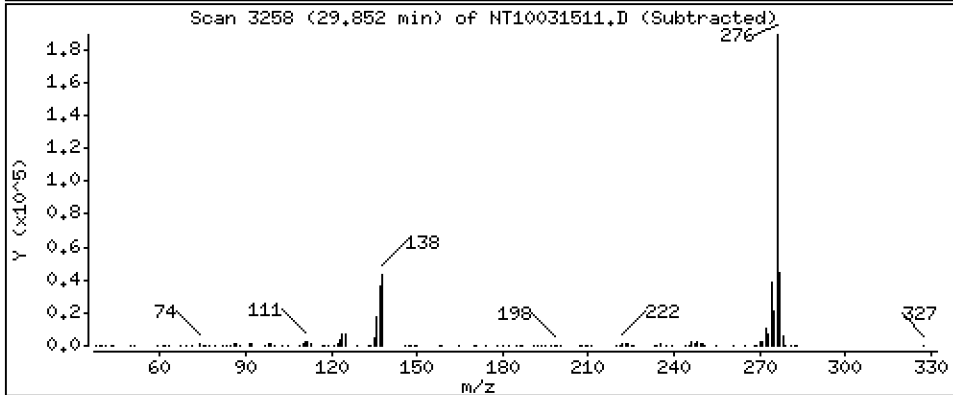
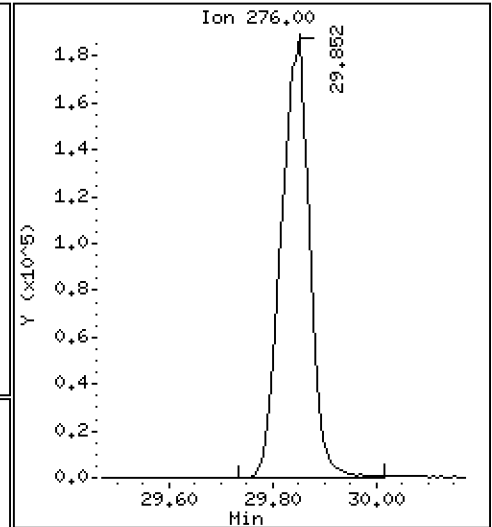
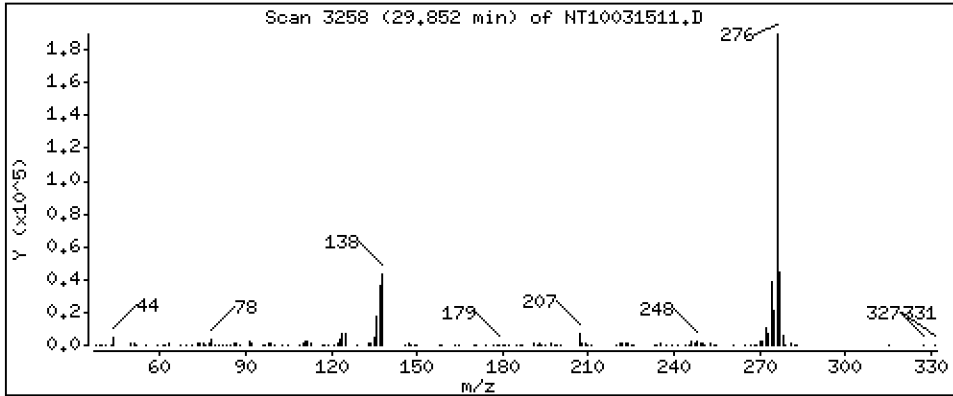
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 4,590 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

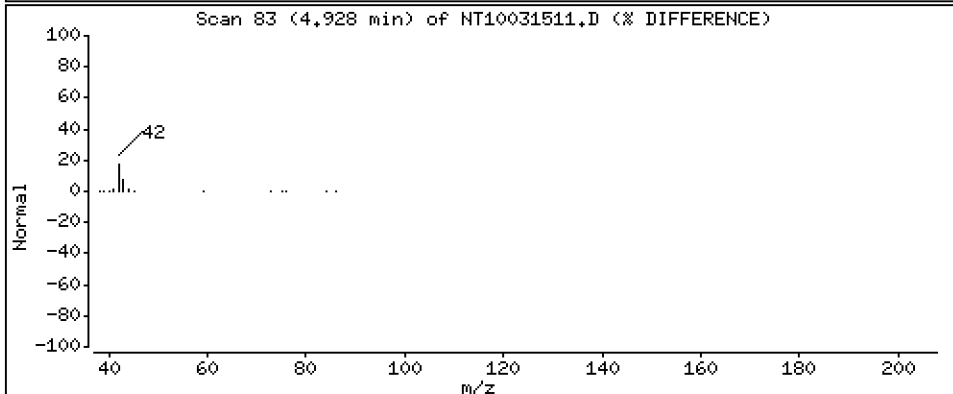
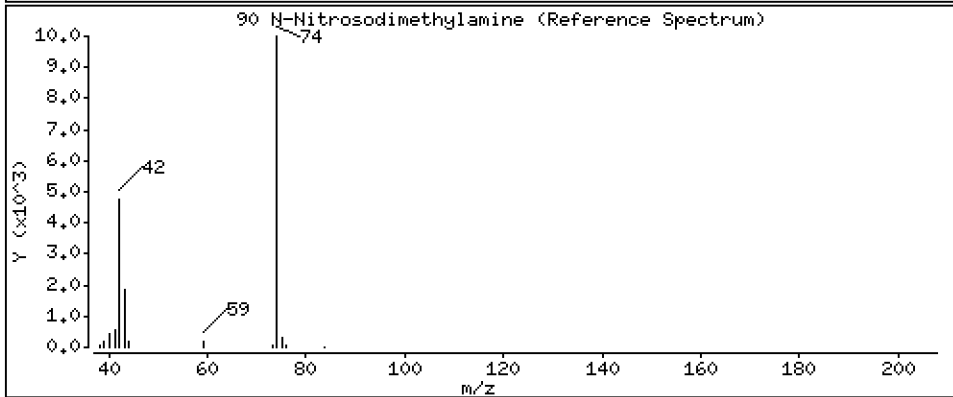
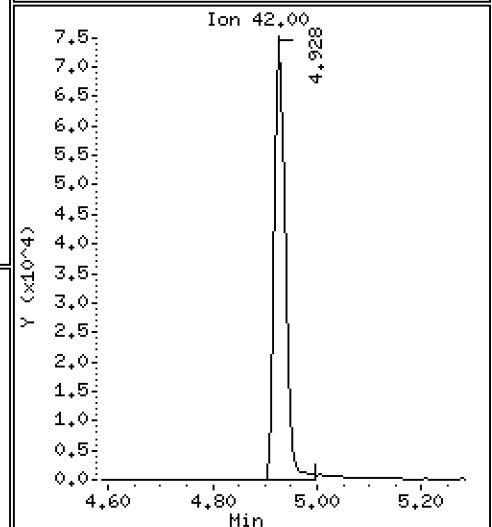
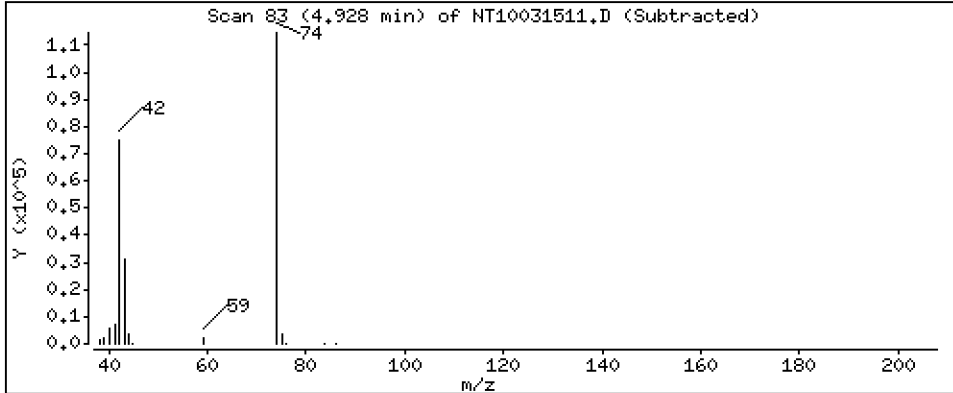
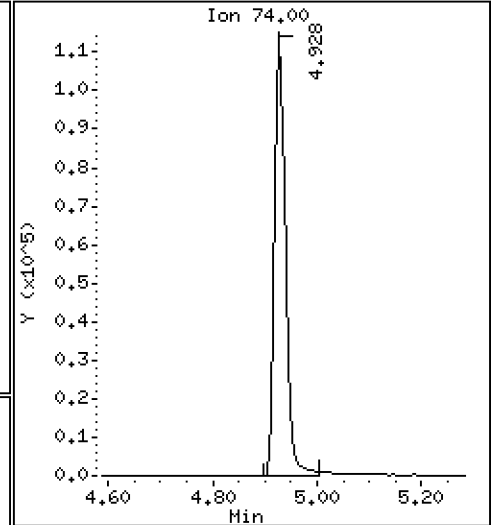
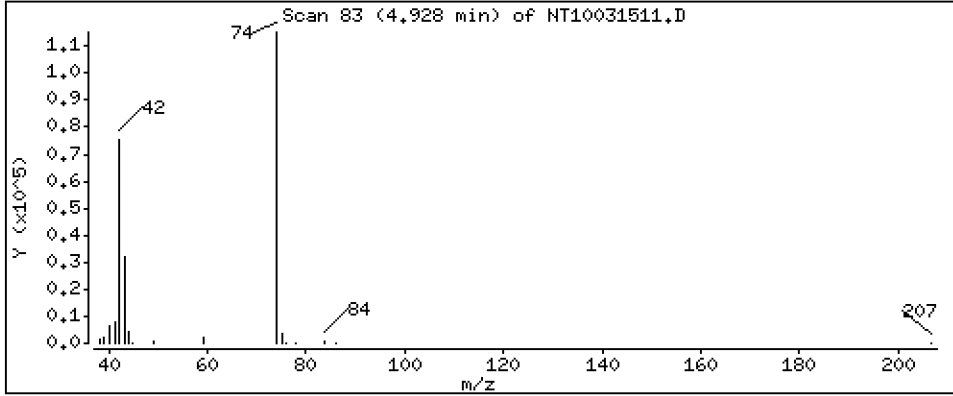
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

90 N-Nitrosodimethylamine

Concentration: 5.194 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

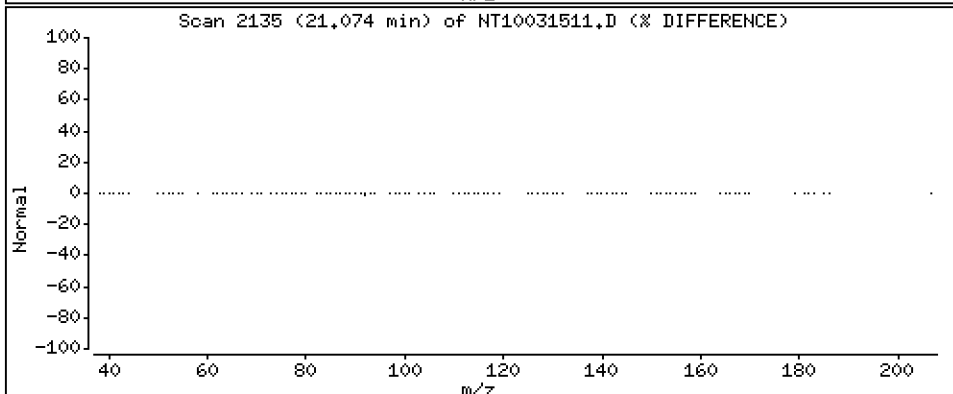
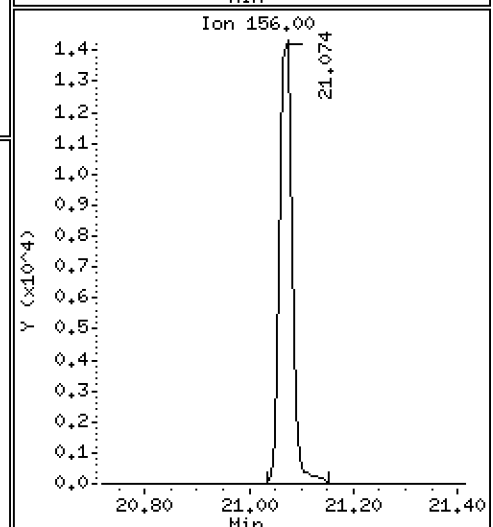
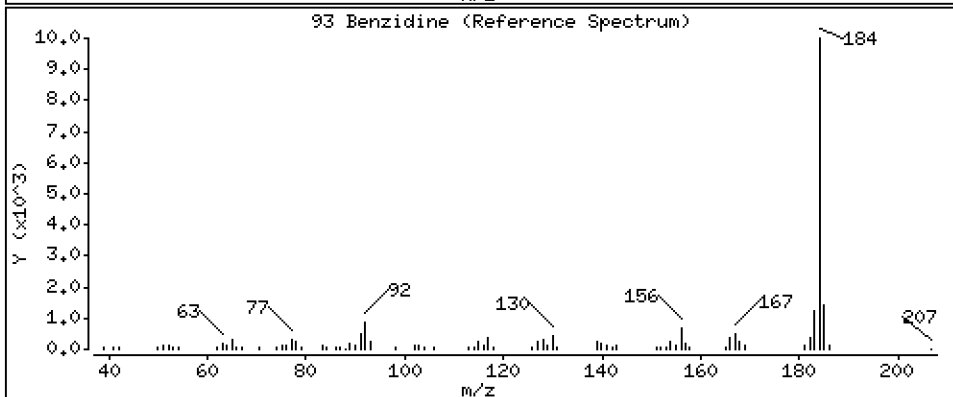
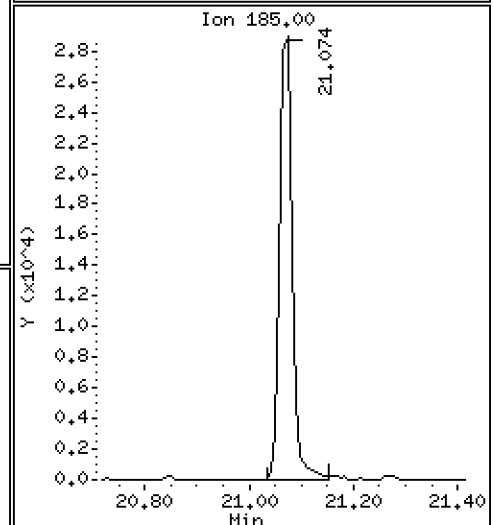
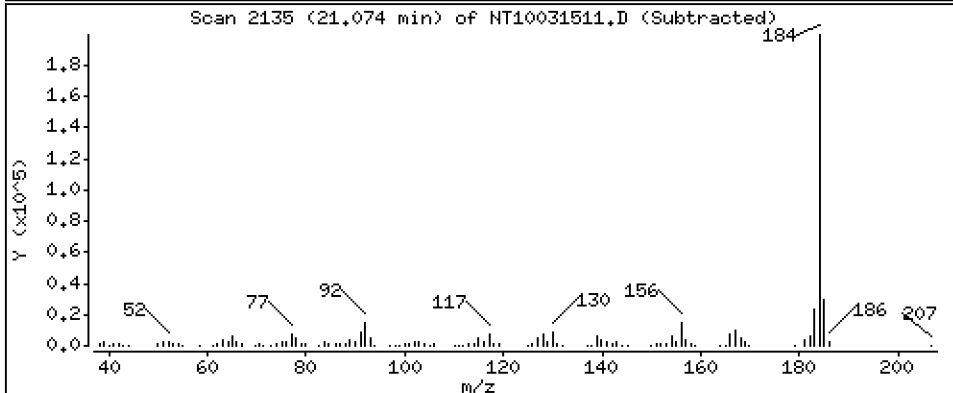
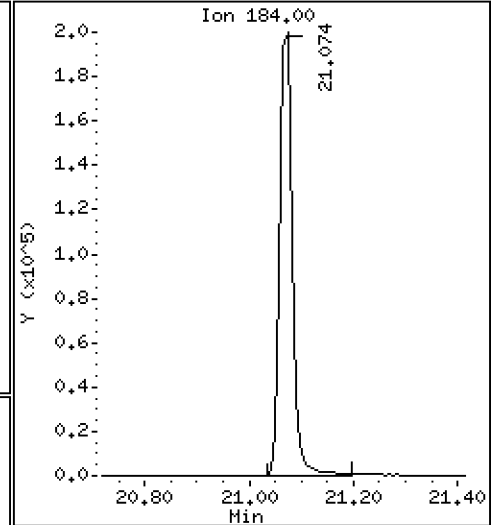
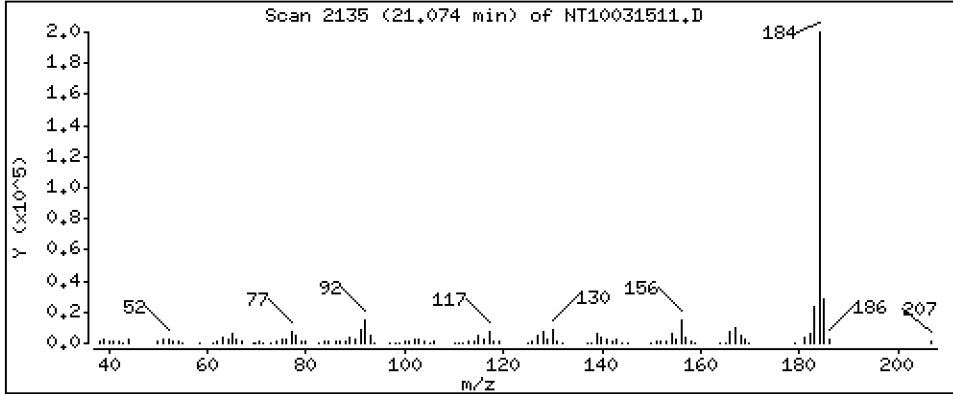
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

93 Benzidine

Concentration: 4,380 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

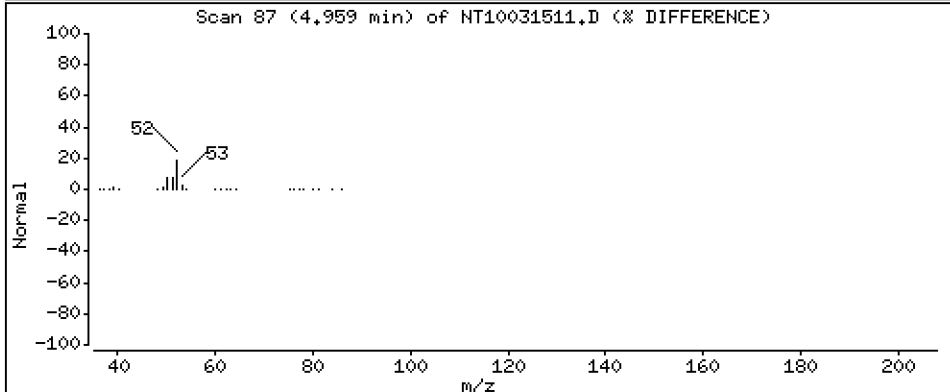
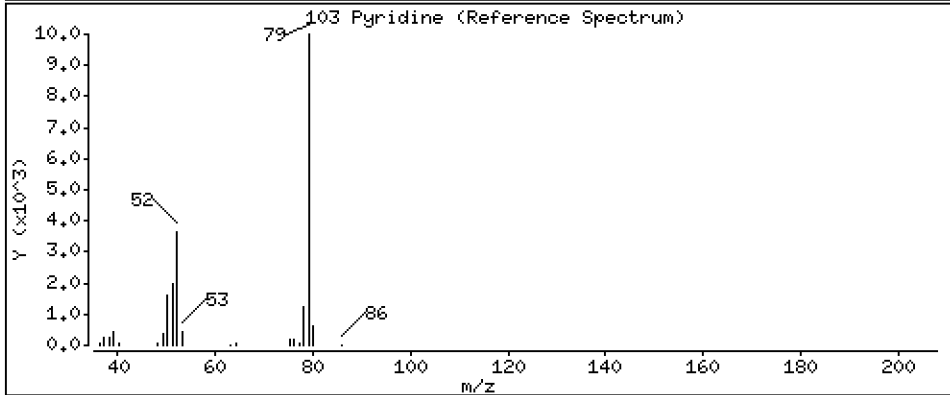
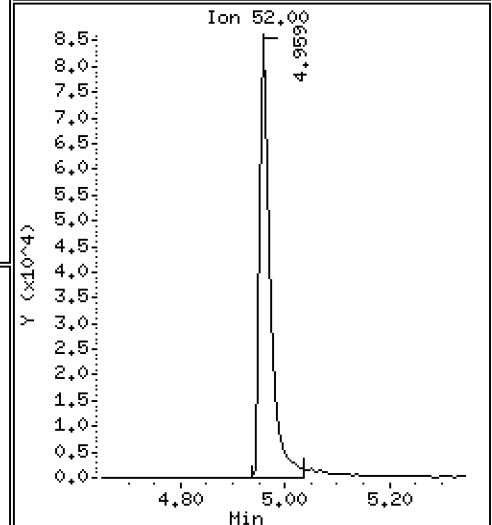
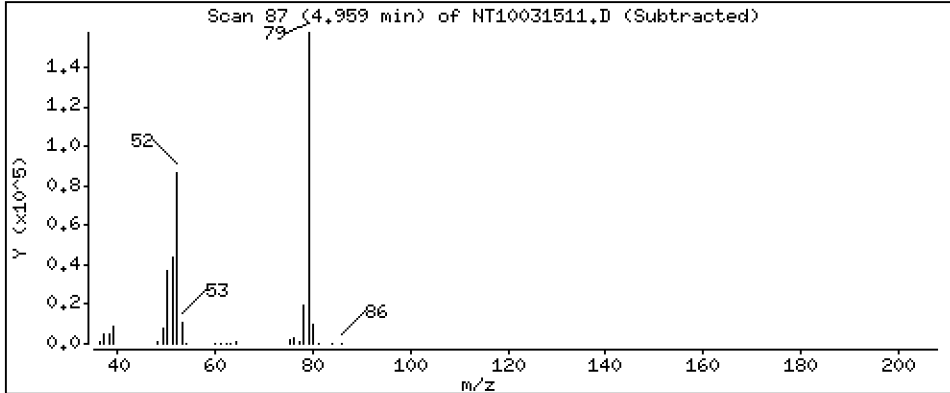
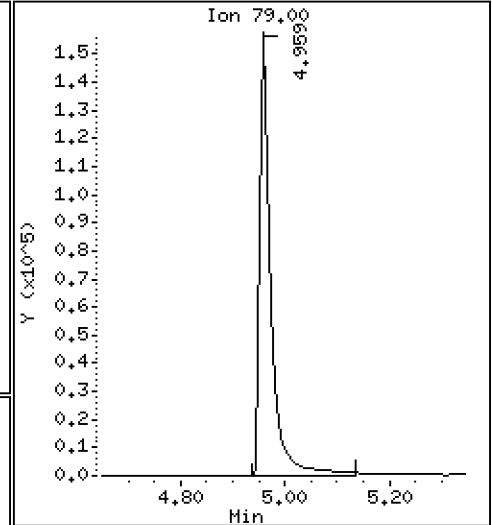
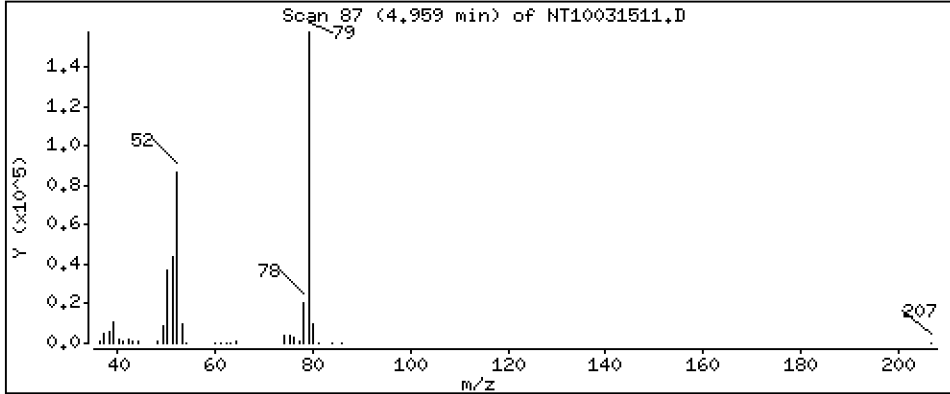
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

103 Pyridine

Concentration: 5.337 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

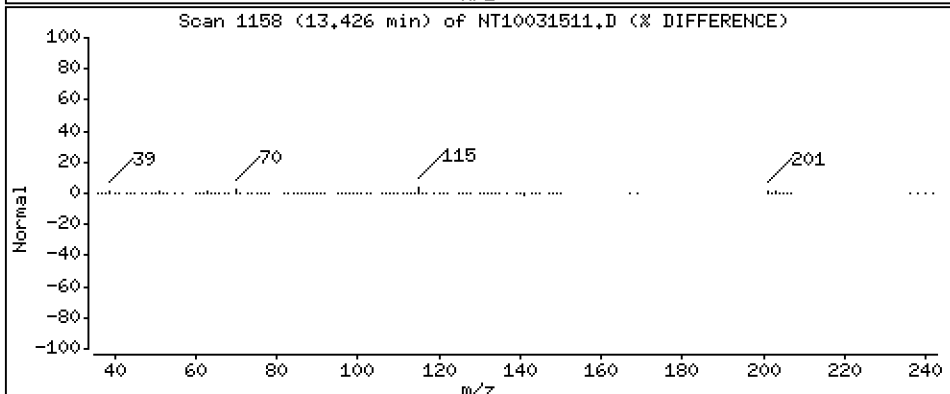
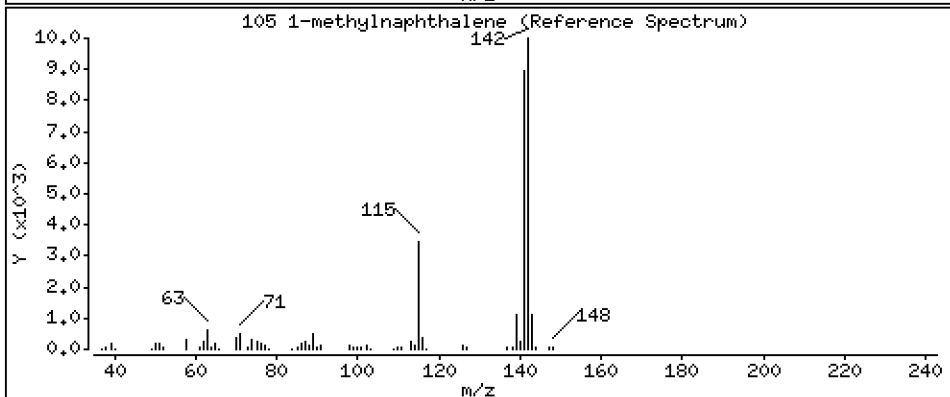
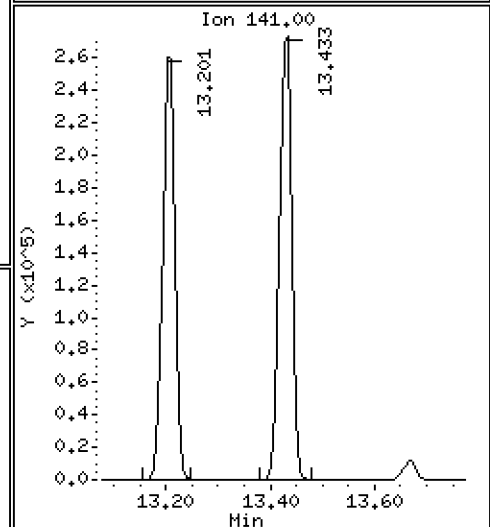
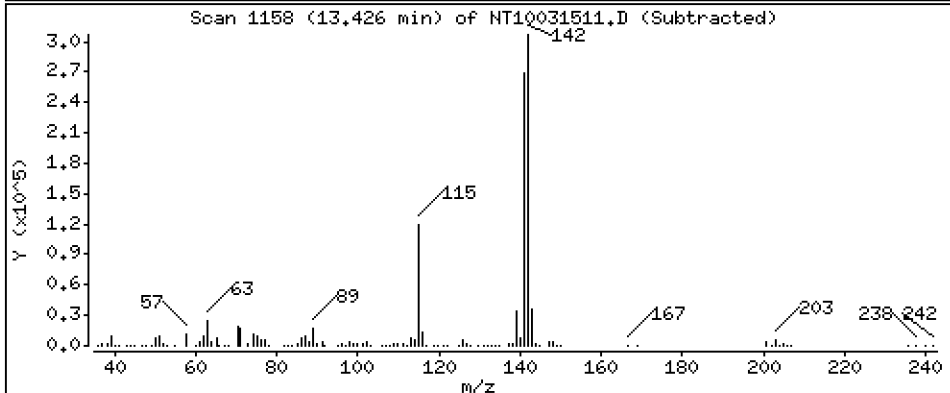
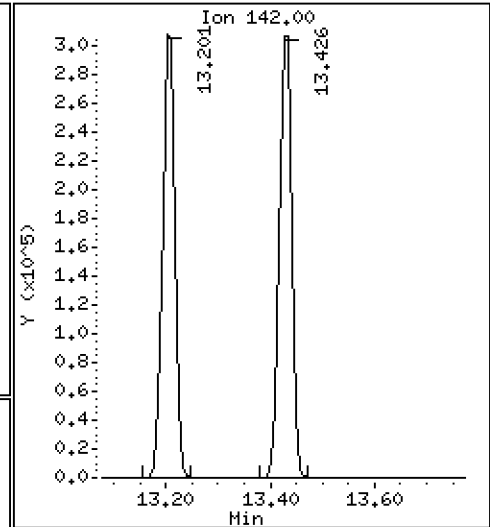
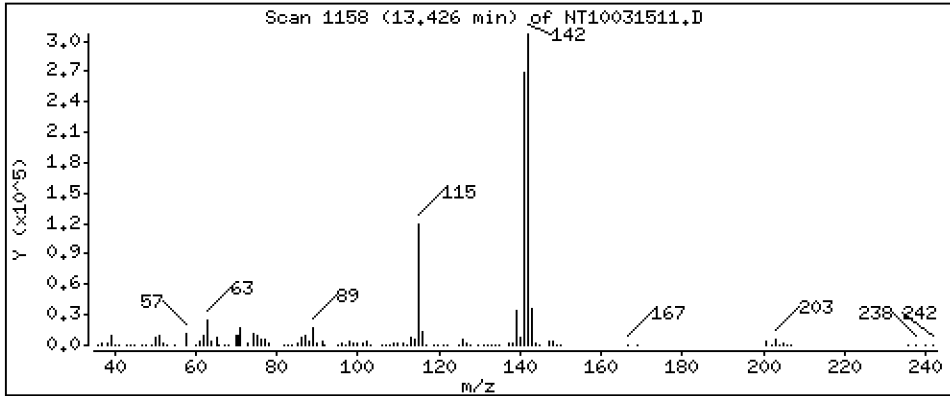
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 4,875 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

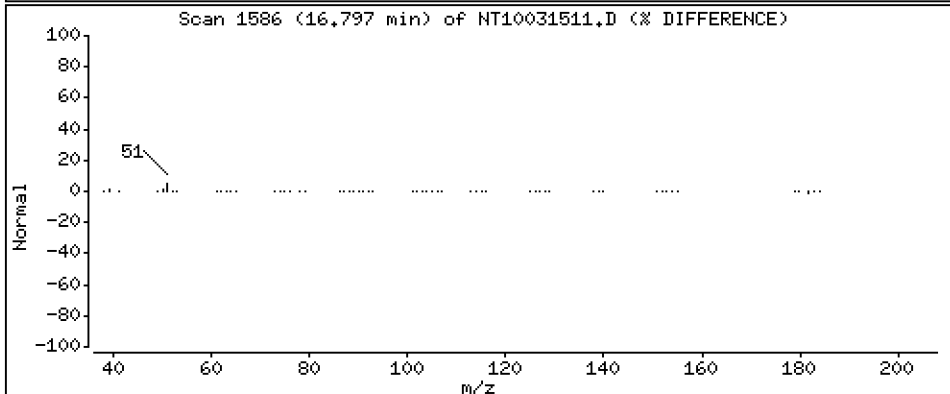
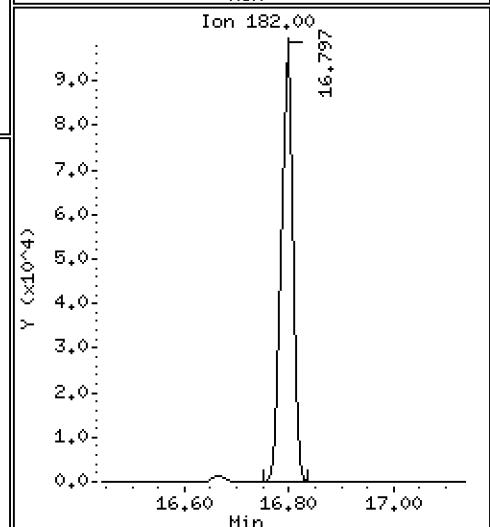
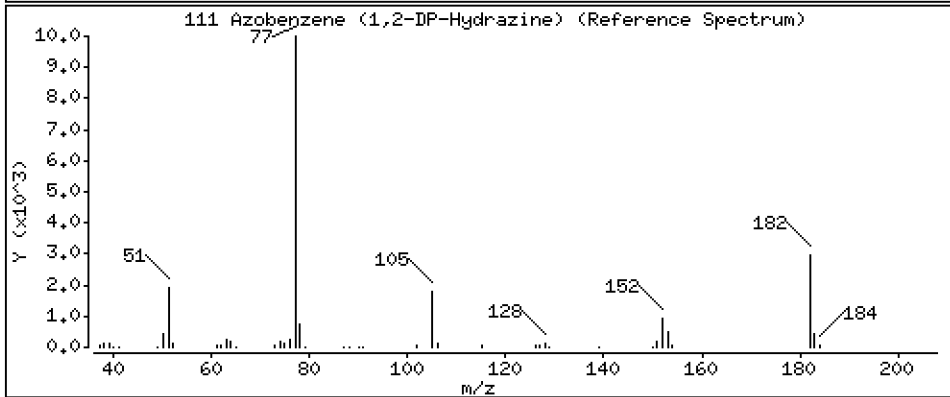
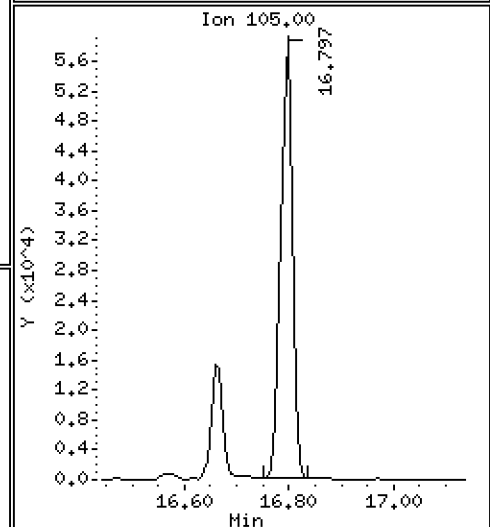
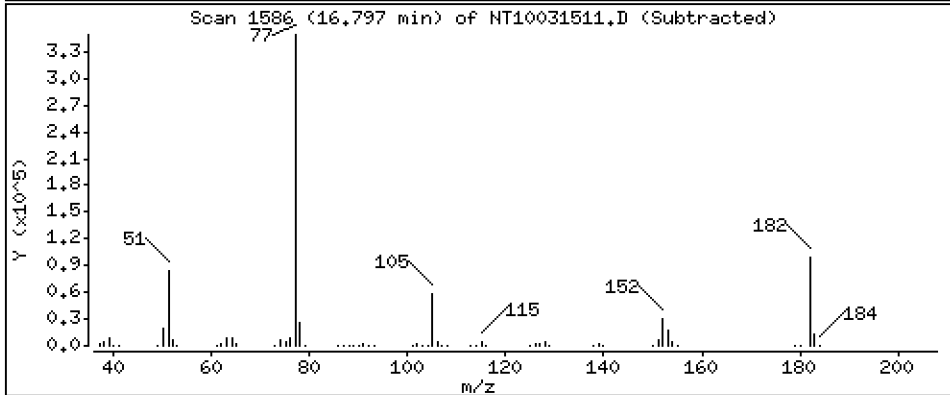
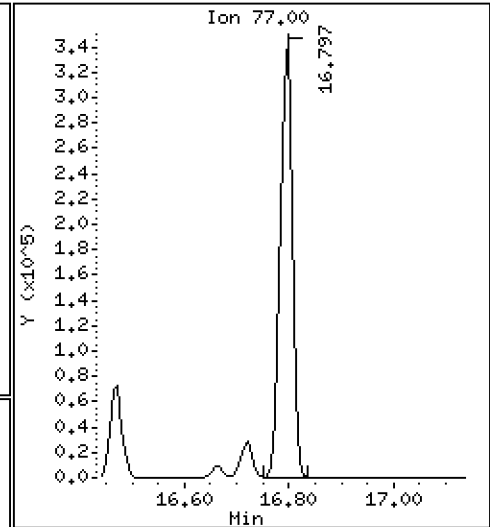
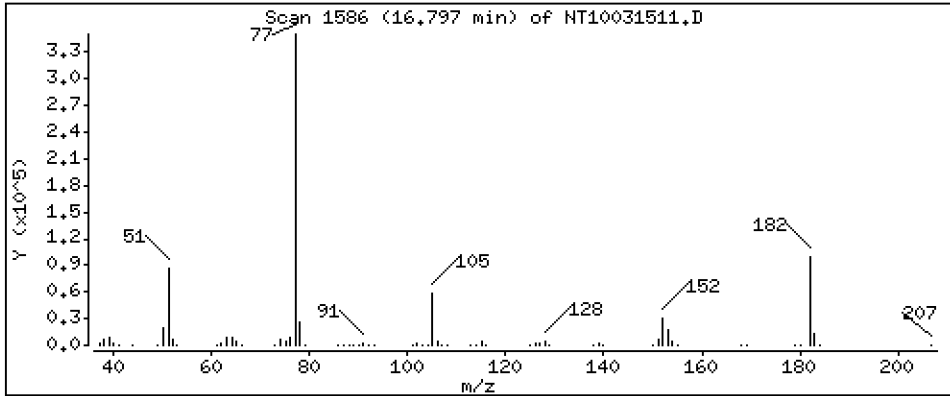
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 4,937 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

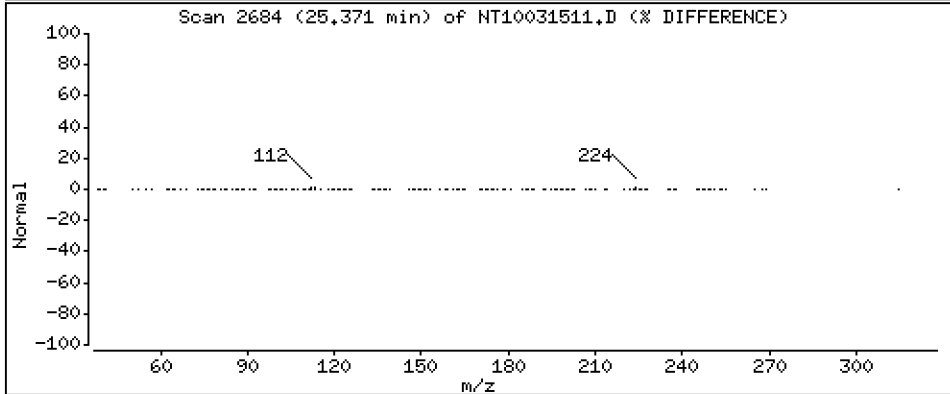
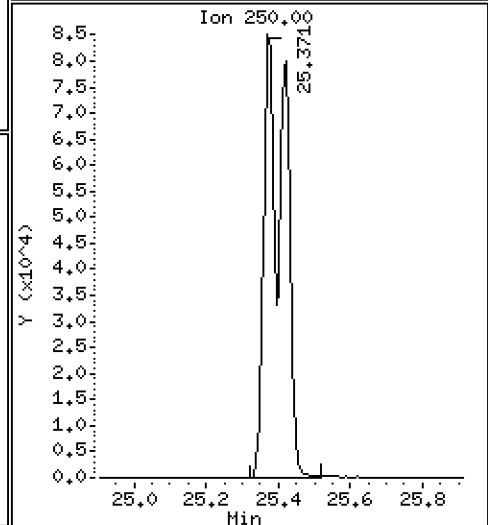
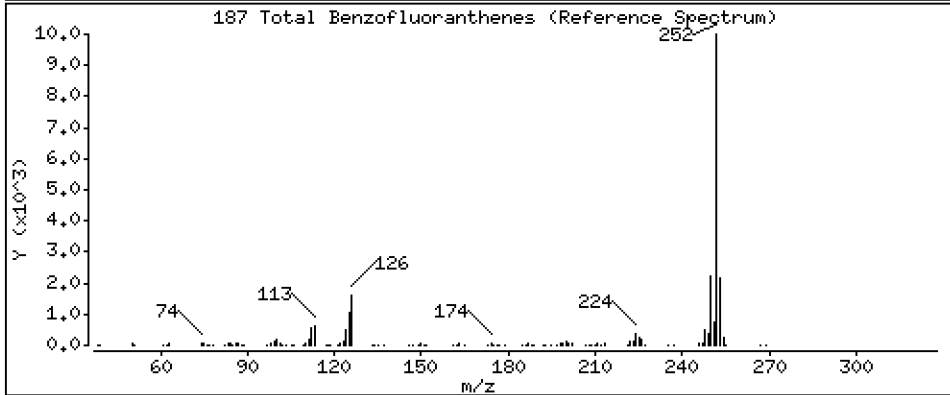
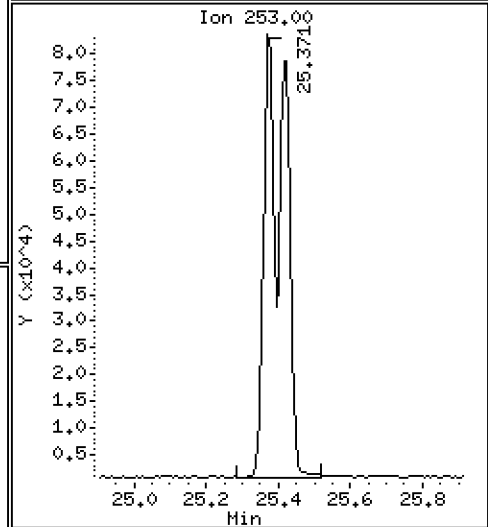
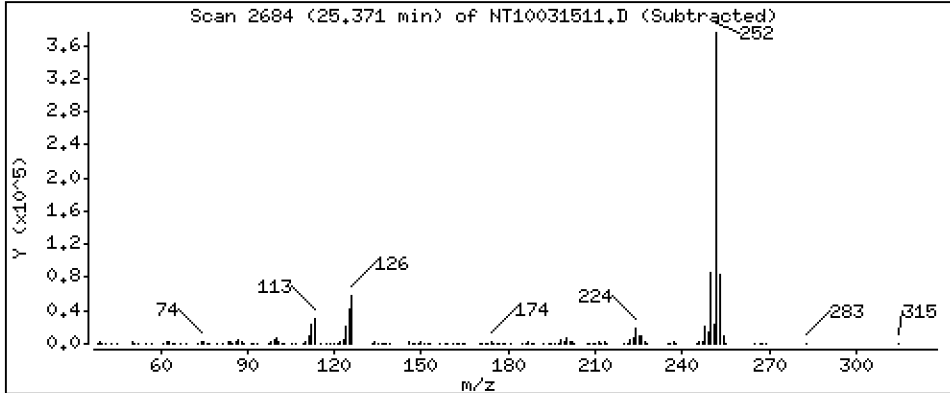
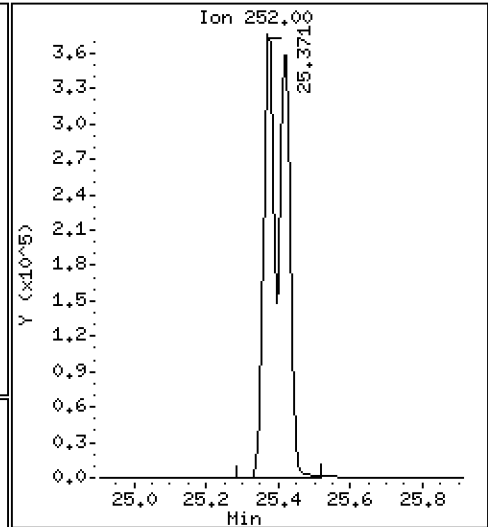
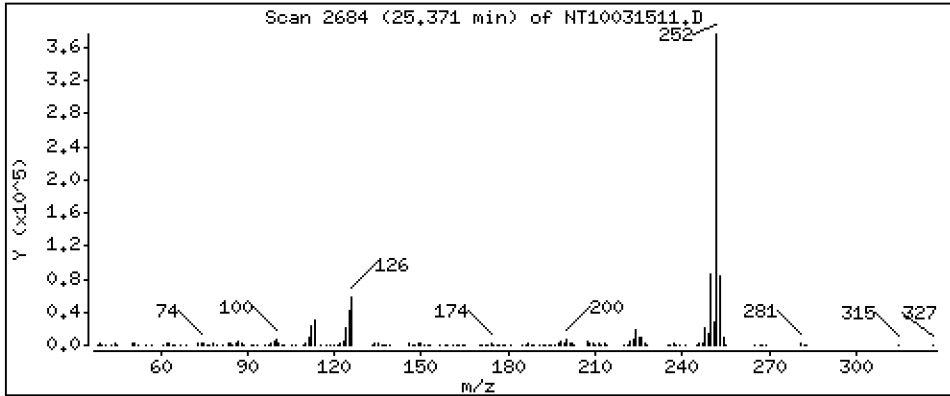
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 9,483 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

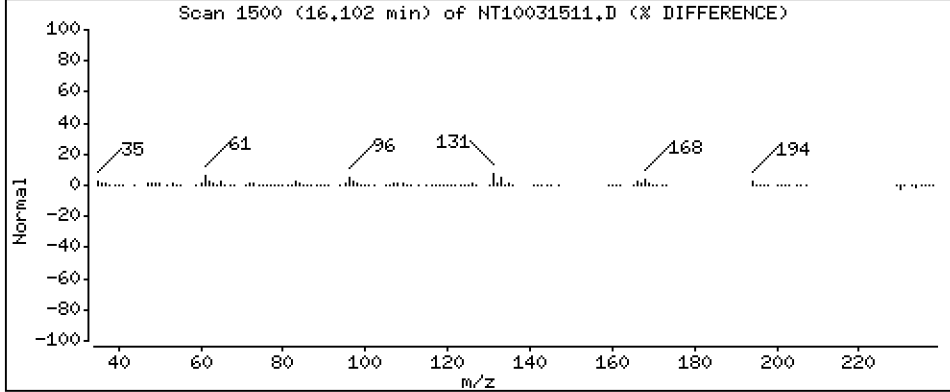
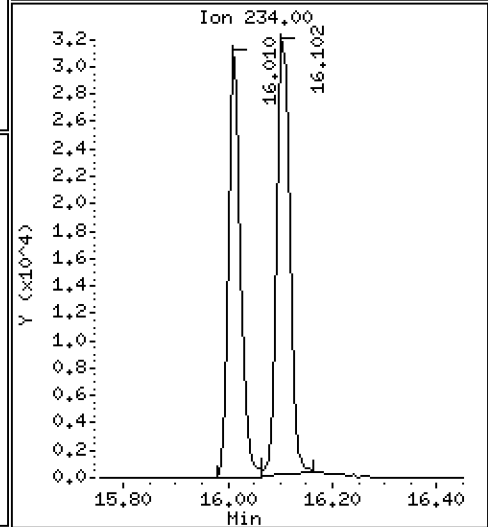
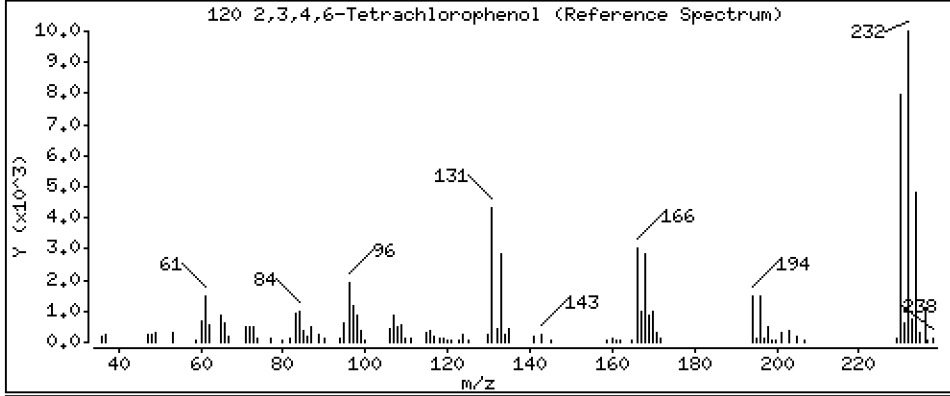
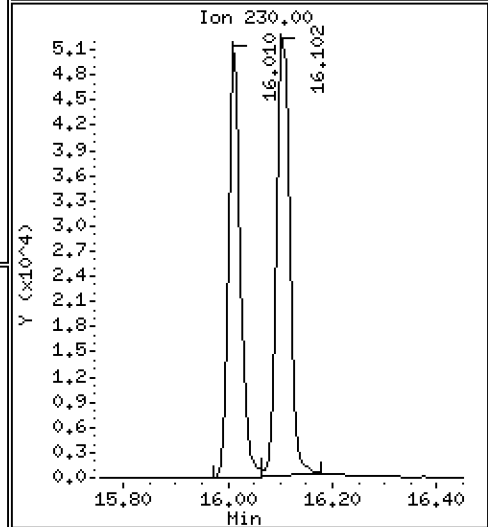
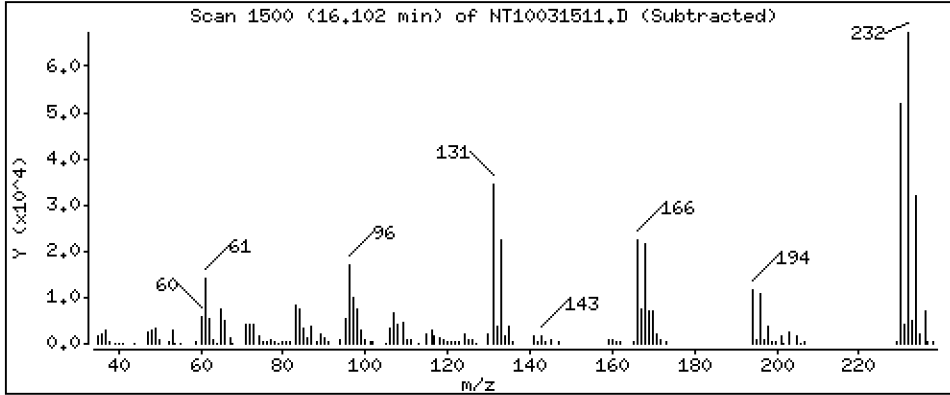
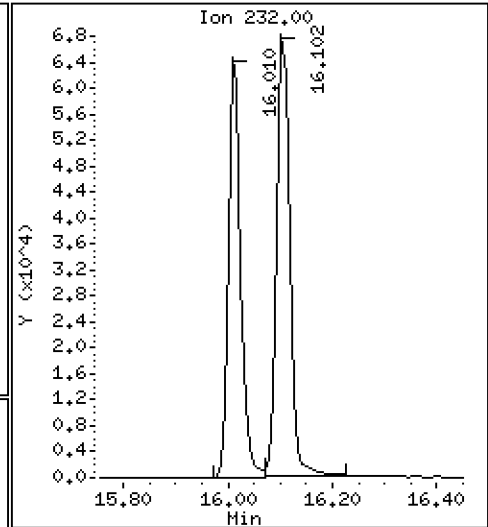
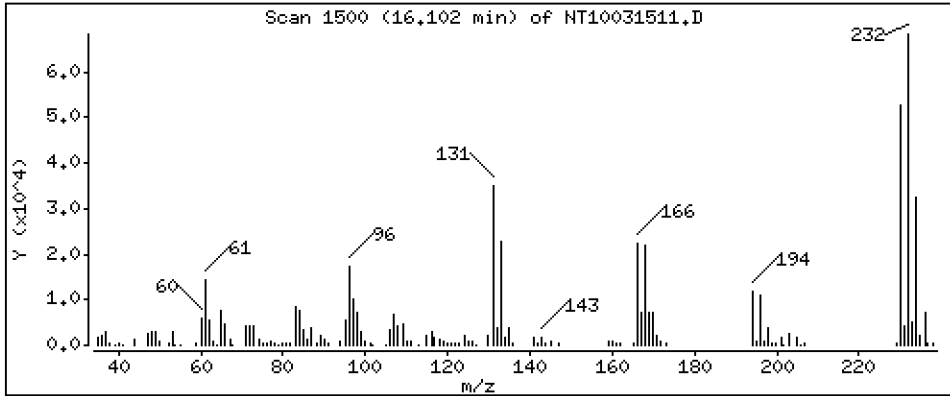
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

120 2,3,4,6-Tetrachlorophenol

Concentration: 3,980 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230315.b\NT10031511.D
 Lab Smp Id: SLC0228-SCV1
 Inj Date : 16-MAR-2023 02:16
 Operator : VTS Inst ID: nt10.i
 Smp Info : SLC0228-SCV1
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt10.i\20230315.b\ABN.m
 Meth Date : 16-Mar-2023 12:06 van Quant Type: ISTD
 Cal Date : 16-MAR-2023 00:22 Cal File: NT10031508.D
 Als bottle: 11
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: ICAL.sub
 Target Version: 4.14
 Processing Host: VANS-201906

| Compounds | QUANT | SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|---------------------------------|-------|-----|--------|--------|---------|------------------------|----------------|---------|
| | | | | | | | ON-COLUMN | FINAL |
| | MASS | | | | | | (ug/mL) | (ug/mL) |
| ===== | ==== | | ==== | ===== | ===== | ===== | ===== | ===== |
| \$ 1 2-Fluorophenol | 112 | | | | | Compound Not Detected. | | |
| \$ 2 Phenol-d5 | 99 | | | | | Compound Not Detected. | | |
| 3 Phenol | 94 | | 8.659 | 8.652 | (0.931) | 281600 | 4.41237 | 4.412 |
| \$ 5 2-Chlorophenol-d4 | 132 | | | | | Compound Not Detected. | | |
| 4 Bis(2-Chloroethyl)ether | 93 | | 8.837 | 8.837 | (0.950) | 248892 | 5.25818 | 5.258 |
| 6 2-Chlorophenol | 128 | | 8.960 | 8.961 | (0.963) | 233608 | 4.27685 | 4.277 |
| 7 1,3-Dichlorobenzene | 146 | | 9.239 | 9.231 | (0.993) | 275540 | 4.77157 | 4.772 |
| * 8 1,4-Dichlorobenzene-d4 | 152 | | 9.301 | 9.293 | (1.000) | 154809 | 4.00000 | |
| 9 1,4-Dichlorobenzene | 146 | | 9.332 | 9.325 | (1.003) | 274051 | 4.91272 | 4.913 |
| \$ 10 1,2-Dichlorobenzene-d4 | 152 | | | | | Compound Not Detected. | | |
| 12 1,2-Dichlorobenzene | 146 | | 9.689 | 9.682 | (1.042) | 268028 | 4.88215 | 4.882 |
| 11 Benzyl alcohol | 108 | | 9.557 | 9.557 | (1.028) | 147597 | 4.92722 | 4.927 |
| 14 2,2'-oxybis(1-Chloropropane) | 121 | | 9.860 | 9.860 | (1.060) | 100179 | 6.21363 | 6.214 |
| 13 2-Methylphenol | 108 | | 9.775 | 9.767 | (1.051) | 196115 | 4.21542 | 4.215 |
| 17 Hexachloroethane | 117 | | 10.279 | 10.271 | (1.105) | 114513 | 5.00332 | 5.003 |
| 16 N-Nitroso-di-n-propylamine | 70 | | 10.116 | 10.108 | (1.088) | 190250 | 5.17896 | 5.179 |
| 15 4-Methylphenol | 108 | | 10.046 | 10.031 | (1.080) | 213951 | 4.36462 | 4.365 |
| \$ 18 Nitrobenzene-d5 | 82 | | | | | Compound Not Detected. | | |
| 19 Nitrobenzene | 77 | | 10.426 | 10.419 | (0.885) | 274714 | 4.85798 | 4.858 |
| 20 Isophorone | 82 | | 10.861 | 10.861 | (0.922) | 556741 | 7.69604 | 7.696 |
| 21 2-Nitrophenol | 139 | | 11.047 | 11.048 | (0.938) | 110302 | 3.99452 | 3.995 |
| 22 2,4-Dimethylphenol | 107 | | 11.081 | 11.082 | (0.941) | 188638 | 3.63181 | 3.632 |
| 23 Bis(2-Chloroethoxy)methane | 93 | | 11.285 | 11.285 | (0.958) | 273219 | 5.65409 | 5.654 |
| 24 Benzoic acid | 105 | | 11.217 | 11.166 | (0.952) | 173961 | 5.95241 | 5.952 |
| 25 2,4-Dichlorophenol | 162 | | 11.489 | 11.489 | (0.975) | 195480 | 4.70301 | 4.703 |
| 26 1,2,4-Trichlorobenzene | 180 | | 11.685 | 11.685 | (0.992) | 222176 | 4.55366 | 4.554 |
| * 27 Naphthalene-d8 | 136 | | 11.777 | 11.770 | (1.000) | 570882 | 4.00000 | |
| 28 Naphthalene | 128 | | 11.816 | 11.816 | (1.003) | 713318 | 4.71662 | 4.717 |
| 29 4-Chloroaniline | 127 | | 11.940 | 11.940 | (1.014) | 223402 | 3.78650 | 3.787 |
| 30 Hexachlorobutadiene | 225 | | 12.171 | 12.172 | (1.033) | 138198 | 4.83404 | 4.834 |
| 31 4-Chloro-3-methylphenol | 107 | | 12.876 | 12.876 | (1.093) | 208794 | 4.64027 | 4.640 |
| 32 2-Methylnaphthalene | 142 | | 13.201 | 13.201 | (1.121) | 501627 | 4.59617 | 4.596 |
| 33 Hexachlorocyclopentadiene | 237 | | 13.665 | 13.665 | (0.888) | 132827 | 4.72902 | 4.729 |

| Compounds | QUANT | SIG | | | | | | CONCENTRATIONS | |
|-----------------------------------|-------|-----|------------------------|--------|---------|--------|----------|----------------------|------------------|
| | | | MASS | RT | EXP RT | REL RT | RESPONSE | ON-COLUMN (ug/mL) | FINAL (ug/mL) |
| 34 2,4,6-Trichlorophenol | 196 | | 13.820 | 13.820 | (0.898) | 137849 | 4.59559 | 4.596 | |
| 35 2,4,5-Trichlorophenol | 196 | | 13.889 | 13.890 | (0.903) | 146935 | 4.40855 | 4.409 | |
| § 36 2-Fluorobiphenyl | 172 | | Compound Not Detected. | | | | | | |
| 37 2-Chloronaphthalene | 162 | | 14.199 | 14.191 | (0.923) | 466196 | 4.79589 | 4.796 | |
| 38 2-Nitroaniline | 65 | | 14.454 | 14.447 | (0.940) | 134108 | 4.91137 | 4.911 | |
| 39 Dimethylphthalate | 163 | | 14.880 | 14.873 | (0.967) | 486790 | 4.93747 | 4.937 | |
| 40 Acenaphthylene | 152 | | 15.074 | 15.066 | (0.980) | 727839 | 4.80509 | 4.805 | |
| 41 2,6-Dinitrotoluene | 165 | | 15.020 | 15.012 | (0.976) | 112840 | 5.29815 | 5.298 | |
| * 42 Acenaphthene-d10 | 164 | | 15.383 | 15.383 | (1.000) | 303490 | 4.00000 | | |
| 43 3-Nitroaniline | 138 | | 15.306 | 15.298 | (0.995) | 120530 | 5.01393 | 5.014 | |
| 44 Acenaphthene | 153 | | 15.453 | 15.445 | (1.005) | 446914 | 4.77589 | 4.776 | |
| 45 2,4-Dinitrophenol | 184 | | 15.515 | 15.515 | (1.009) | 27409 | 2.12395 | 2.124 | |
| 46 Dibenzofuran | 168 | | 15.777 | 15.770 | (1.026) | 641379 | 4.64790 | 4.648 | |
| 47 4-Nitrophenol | 109 | | 15.600 | 15.592 | (1.014) | 59816 | 3.96568 | 3.966 | |
| 48 2,4-Dinitrotoluene | 165 | | 15.824 | 15.817 | (1.029) | 144262 | 4.51019 | 4.510 | |
| 50 Diethylphthalate | 149 | | 16.326 | 16.319 | (1.061) | 503887 | 5.20905 | 5.209 | |
| 49 Fluorene | 166 | | 16.489 | 16.481 | (1.072) | 511113 | 4.70796 | 4.708 | |
| 51 4-Chlorophenyl-phenylether | 204 | | 16.473 | 16.466 | (1.071) | 257762 | 4.99294 | 4.993 | |
| 52 4-Nitroaniline | 138 | | 16.566 | 16.566 | (1.077) | 106701 | 4.92532 | 4.925 | |
| 53 4,6-Dinitro-2-methylphenol | 198 | | 16.666 | 16.658 | (0.905) | 56867 | 3.51509 | 3.515 | |
| 54 N-Nitrosodiphenylamine | 169 | | 16.720 | 16.712 | (0.908) | 342454 | 4.80180 | 4.802 | |
| § 55 2,4,6-Tribromophenol | 330 | | Compound Not Detected. | | | | | | |
| 56 4-Bromophenyl-phenylether | 248 | | 17.475 | 17.476 | (0.949) | 150956 | 5.05964 | 5.060 | |
| 57 Hexachlorobenzene | 284 | | 17.800 | 17.793 | (0.966) | 143751 | 4.59553 | 4.596 | |
| 58 Pentachlorophenol | 266 | | 18.149 | 18.149 | (0.985) | 75635 | 4.05676 | 4.057 | |
| * 59 Phenanthrene-d10 | 188 | | 18.420 | 18.420 | (1.000) | 533431 | 4.00000 | | |
| 60 Phenanthrene | 178 | | 18.466 | 18.466 | (1.003) | 669357 | 4.60181 | 4.602 | |
| 61 Anthracene | 178 | | 18.559 | 18.559 | (1.008) | 581438 | 4.16715 | 4.167 | |
| 62 Carbazole | 167 | | 18.884 | 18.884 | (1.025) | 591382 | 4.72989 | 4.730 | |
| 63 Di-n-butylphthalate | 149 | | 19.665 | 19.666 | (1.068) | 830680 | 4.96738 | 4.967 | |
| 64 Fluoranthene | 202 | | 20.841 | 20.841 | (0.888) | 782432 | 4.47248 | 4.472 | |
| 65 Pyrene | 202 | | 21.267 | 21.267 | (0.907) | 778668 | 4.33892 | 4.339 | |
| § 66 Terphenyl-d14 | 244 | | Compound Not Detected. | | | | | | |
| 67 Butylbenzylphthalate | 149 | | 22.459 | 22.460 | (0.957) | 314007 | 4.83397 | 4.834 | |
| 68 Benzo(a)anthracene | 228 | | 23.427 | 23.419 | (0.999) | 714166 | 4.64722 | 4.647 | |
| * 69 Chrysene-d12 | 240 | | 23.458 | 23.450 | (1.000) | 435381 | 4.00000 | | |
| 70 3,3'-Dichlorobenzidine | 252 | | 23.373 | 23.373 | (0.996) | 483256 | 9.81738 | 9.817 | |
| 71 Chrysene | 228 | | 23.497 | 23.489 | (1.002) | 677151 | 4.51017 | 4.510 | |
| 72 bis(2-Ethylhexyl)phthalate | 149 | | 23.481 | 23.474 | (0.959) | 453669 | 4.67998 | 4.680 | |
| * 134 Di-n-octylphthalate-d4 | 153 | | 24.487 | 24.480 | (1.000) | 660827 | 4.00000 | | |
| 73 Di-n-octylphthalate | 149 | | 24.495 | 24.488 | (1.000) | 855562 | 4.94734 | 4.947 | |
| 74 Benzo(b)fluoranthene | 252 | | 25.370 | 25.362 | (0.969) | 737887 | 4.60200 | 4.602 (H) | |
| 75 Benzo(k)fluoranthene | 252 | | 25.416 | 25.409 | (0.970) | 797521 | 4.89839 | 4.898 | |
| 76 Benzo(a)pyrene | 252 | | 26.067 | 26.052 | (0.995) | 698616 | 4.87338 | 4.873 | |
| * 77 Perylene-d12 | 264 | | 26.191 | 26.183 | (1.000) | 494648 | 4.00000 | | |
| 78 Indeno(1,2,3-cd)pyrene | 276 | | 29.005 | 28.990 | (1.107) | 834672 | 4.57655 | 4.577 | |
| 79 Dibenzo(a,h)anthracene | 278 | | 29.021 | 29.005 | (1.108) | 688433 | 4.54663 | 4.547 | |
| 80 Benzo(g,h,i)perylene | 276 | | 29.852 | 29.821 | (1.140) | 724463 | 4.59000 | 4.590 | |
| 90 N-Nitrosodimethylamine | 74 | | 4.928 | 4.936 | (0.530) | 155126 | 5.19378 | 5.194 | |
| 91 Aniline | 93 | | Compound Not Detected. | | | | | | |
| 93 Benzidine | 184 | | 21.073 | 21.066 | (0.898) | 314737 | 4.37985 | 4.380 | |
| 103 Pyridine | 79 | | 4.959 | 4.997 | (0.533) | 244801 | 5.33678 | 5.337 | |
| 105 1-methylnaphthalene | 142 | | 13.425 | 13.425 | (1.140) | 487498 | 4.87520 | 4.875 | |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77 | | 16.797 | 16.789 | (1.092) | 533524 | 4.93744 | 4.937 | |

| Compounds | QUANT SIG | | CONCENTRATIONS | | | | | |
|-------------------------------|-----------|--|----------------|--------|---------|----------|----------------------|------------------|
| | MASS | | RT | EXP RT | REL RT | RESPONSE | ON-COLUMN (ug/mL) | FINAL (ug/mL) |
| ===== | ===== | | ===== | ===== | ===== | ===== | ===== | ===== |
| 187 Total Benzofluoranthenes | 252 | | 25.370 | 25.409 | (0.969) | 1468165 | 9.48349 | 9.483 |
| 120 2,3,4,6-Tetrachlorophenol | 232 | | 16.102 | 16.103 | (1.047) | 124685 | 3.97959 | 3.980 |

QC Flag Legend

H - Operator selected an alternate compound hit.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 15-MAR-2023
 Lab File ID: NT10031511.D Calibration Time: 21:50
 Lab Smp Id: SLC0228-SCV1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt10.i\20230315.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|--------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 171542 | 85771 | 343084 | 154809 | -9.75 |
| 27 Naphthalene-d8 | 624466 | 312233 | 1248932 | 570882 | -8.58 |
| 42 Acenaphthene-d10 | 337226 | 168613 | 674452 | 303490 | -10.00 |
| 59 Phenanthrene-d10 | 572849 | 286425 | 1145698 | 533431 | -6.88 |
| 69 Chrysene-d12 | 347068 | 173534 | 694136 | 435381 | 25.45 |
| 134 Di-n-octylphthala | 500317 | 250159 | 1000634 | 660827 | 32.08 |
| 77 Perylene-d12 | 421549 | 210775 | 843098 | 494648 | 17.34 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 9.30 | 8.80 | 9.80 | 9.30 | -0.00 |
| 27 Naphthalene-d8 | 11.78 | 11.28 | 12.28 | 11.78 | 0.01 |
| 42 Acenaphthene-d10 | 15.38 | 14.88 | 15.88 | 15.38 | 0.00 |
| 59 Phenanthrene-d10 | 18.42 | 17.92 | 18.92 | 18.42 | 0.00 |
| 69 Chrysene-d12 | 23.45 | 22.95 | 23.95 | 23.46 | 0.04 |
| 134 Di-n-octylphthala | 24.48 | 23.98 | 24.98 | 24.49 | 0.03 |
| 77 Perylene-d12 | 26.18 | 25.68 | 26.68 | 26.19 | 0.03 |

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

REVIEW SUMMARY FOR FILE - NT10031511.D

Lab ID: SLC0228-SCV1
nt10.i, 20230315.b\ABN.m, 16-MAR-2023 02:16

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

** FIRST SURROGATE NOT FOUND. ICAL Check not performed **

RRT CHECK

| RRT | CCV RRT | DELTA | COMPOUND |
|-------|---------|--------|--------------|
| 0.952 | 0.000 | 0.9524 | Benzoic acid |

RRT check based on Ccal File: NT10031508.D

On Column LOD for nt10.i, 20230315.b\ABN.m, ICAL.sub = 0.0000

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

Data File: \\target\share\chem3\nt10.1\20230315.6\NT10031512.D

Date: 16-MAR-2023 02:54

Client ID:

Sample Info: SLC0228-ICB1

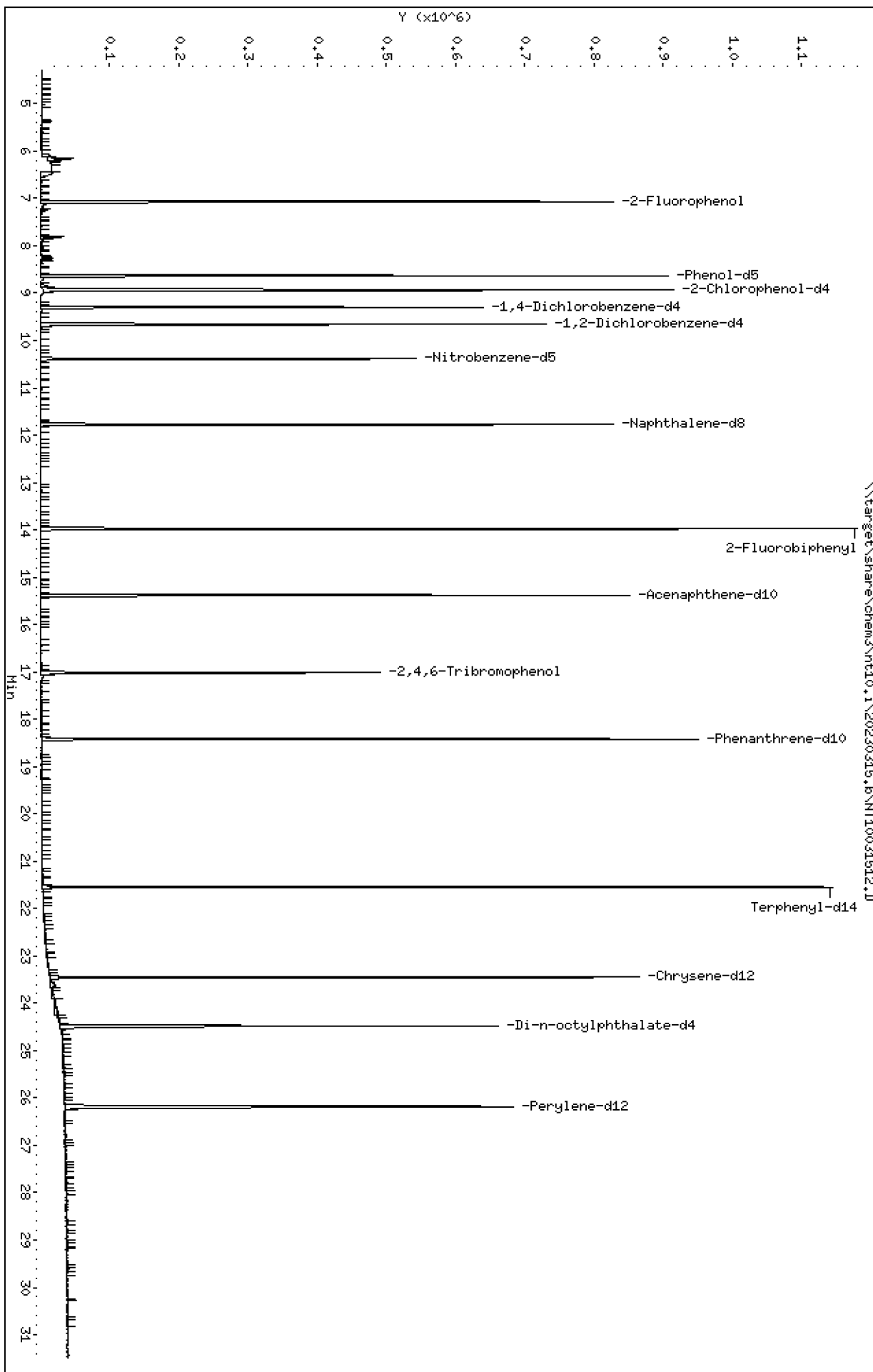
Column phase: ZB-5msi

Instrument: nt10.1

Operator: VTS

Column diameter: 0.25

Page 1



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230315.b\NT10031512.D
 Lab Smp Id: SLC0228-ICB1
 Inj Date : 16-MAR-2023 02:54
 Operator : VTS Inst ID: nt10.i
 Smp Info : SLC0228-ICB1
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt10.i\20230315.b\ABN.m
 Meth Date : 16-Mar-2023 12:06 van Quant Type: ISTD
 Cal Date : 16-MAR-2023 00:22 Cal File: NT10031508.D
 Als bottle: 12
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: ICAL.sub
 Target Version: 4.14
 Processing Host: VANS-201906

| Compounds | QUANT | SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|---------------------------------|-------|-----|------------------------|--------|---------|----------|----------------|---------|
| | | | | | | | ON-COLUMN | FINAL |
| | MASS | | | | | | (ug/mL) | (ug/mL) |
| \$ 1 2-Fluorophenol | 112 | | 7.067 | 7.068 | (0.760) | 362536 | 6.92497 | 6.925 |
| \$ 2 Phenol-d5 | 99 | | 8.636 | 8.636 | (0.928) | 477145 | 6.94756 | 6.948 |
| 3 Phenol | 94 | | Compound Not Detected. | | | | | |
| \$ 5 2-Chlorophenol-d4 | 132 | | 8.929 | 8.930 | (0.960) | 416453 | 7.10111 | 7.101 |
| 4 Bis(2-Chloroethyl)ether | 93 | | Compound Not Detected. | | | | | |
| 6 2-Chlorophenol | 128 | | Compound Not Detected. | | | | | |
| 7 1,3-Dichlorobenzene | 146 | | Compound Not Detected. | | | | | |
| * 8 1,4-Dichlorobenzene-d4 | 152 | | 9.301 | 9.293 | (1.000) | 173115 | 4.00000 | |
| 9 1,4-Dichlorobenzene | 146 | | Compound Not Detected. | | | | | |
| \$ 10 1,2-Dichlorobenzene-d4 | 152 | | 9.658 | 9.658 | (1.038) | 194128 | 4.60926 | 4.609 |
| 12 1,2-Dichlorobenzene | 146 | | Compound Not Detected. | | | | | |
| 11 Benzyl alcohol | 108 | | Compound Not Detected. | | | | | |
| 14 2,2'-oxybis(1-Chloropropane) | 121 | | Compound Not Detected. | | | | | |
| 13 2-Methylphenol | 108 | | Compound Not Detected. | | | | | |
| 17 Hexachloroethane | 117 | | Compound Not Detected. | | | | | |
| 16 N-Nitroso-di-n-propylamine | 70 | | Compound Not Detected. | | | | | |
| 15 4-Methylphenol | 108 | | Compound Not Detected. | | | | | |
| \$ 18 Nitrobenzene-d5 | 82 | | 10.387 | 10.388 | (0.882) | 294159 | 4.65645 | 4.656 |
| 19 Nitrobenzene | 77 | | Compound Not Detected. | | | | | |
| 20 Isophorone | 82 | | Compound Not Detected. | | | | | |
| 21 2-Nitrophenol | 139 | | Compound Not Detected. | | | | | |
| 22 2,4-Dimethylphenol | 107 | | Compound Not Detected. | | | | | |
| 23 Bis(2-Chloroethoxy)methane | 93 | | Compound Not Detected. | | | | | |
| 24 Benzoic acid | 105 | | Compound Not Detected. | | | | | |
| 25 2,4-Dichlorophenol | 162 | | Compound Not Detected. | | | | | |
| 26 1,2,4-Trichlorobenzene | 180 | | Compound Not Detected. | | | | | |
| * 27 Naphthalene-d8 | 136 | | 11.776 | 11.770 | (1.000) | 625865 | 4.00000 | |
| 28 Naphthalene | 128 | | Compound Not Detected. | | | | | |
| 29 4-Chloroaniline | 127 | | Compound Not Detected. | | | | | |
| 30 Hexachlorobutadiene | 225 | | Compound Not Detected. | | | | | |
| 31 4-Chloro-3-methylphenol | 107 | | Compound Not Detected. | | | | | |
| 32 2-Methylnaphthalene | 142 | | Compound Not Detected. | | | | | |
| 33 Hexachlorocyclopentadiene | 237 | | Compound Not Detected. | | | | | |

| Compounds | QUANT | SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|-----------------------------------|-------|-----|--------|--------|---------|----------|----------------------|------------------|
| | | | | | | | ON-COLUMN (ug/mL) | FINAL (ug/mL) |
| 34 2,4,6-Trichlorophenol | 196 | | | | | | | |
| 35 2,4,5-Trichlorophenol | 196 | | | | | | | |
| \$ 36 2-Fluorobiphenyl | 172 | | 13.981 | 13.975 | (0.909) | 615156 | 4.73090 | 4.731 |
| 37 2-Chloronaphthalene | 162 | | | | | | | |
| 38 2-Nitroaniline | 65 | | | | | | | |
| 39 Dimethylphthalate | 163 | | | | | | | |
| 40 Acenaphthylene | 152 | | | | | | | |
| 41 2,6-Dinitrotoluene | 165 | | | | | | | |
| * 42 Acenaphthene-d10 | 164 | | 15.382 | 15.383 | (1.000) | 328712 | 4.00000 | |
| 43 3-Nitroaniline | 138 | | | | | | | |
| 44 Acenaphthene | 153 | | | | | | | |
| 45 2,4-Dinitrophenol | 184 | | | | | | | |
| 46 Dibenzofuran | 168 | | | | | | | |
| 47 4-Nitrophenol | 109 | | | | | | | |
| 48 2,4-Dinitrotoluene | 165 | | | | | | | |
| 50 Diethylphthalate | 149 | | | | | | | |
| 49 Fluorene | 166 | | | | | | | |
| 51 4-Chlorophenyl-phenylether | 204 | | | | | | | |
| 52 4-Nitroaniline | 138 | | | | | | | |
| 53 4,6-Dinitro-2-methylphenol | 198 | | | | | | | |
| 54 N-Nitrosodiphenylamine | 169 | | | | | | | |
| \$ 55 2,4,6-Tribromophenol | 330 | | 17.020 | 17.021 | (1.106) | 85879 | 5.59351 | 5.594 |
| 56 4-Bromophenyl-phenylether | 248 | | | | | | | |
| 57 Hexachlorobenzene | 284 | | | | | | | |
| 58 Pentachlorophenol | 266 | | | | | | | |
| * 59 Phenanthrene-d10 | 188 | | 18.419 | 18.420 | (1.000) | 592693 | 4.00000 | |
| 60 Phenanthrene | 178 | | | | | | | |
| 61 Anthracene | 178 | | | | | | | |
| 62 Carbazole | 167 | | | | | | | |
| 63 Di-n-butylphthalate | 149 | | | | | | | |
| 64 Fluoranthene | 202 | | | | | | | |
| 65 Pyrene | 202 | | | | | | | |
| \$ 66 Terphenyl-d14 | 244 | | 21.544 | 21.538 | (0.919) | 627405 | 4.58345 | 4.583 |
| 67 Butylbenzylphthalate | 149 | | | | | | | |
| 68 Benzo(a)anthracene | 228 | | | | | | | |
| * 69 Chrysene-d12 | 240 | | 23.449 | 23.450 | (1.000) | 442208 | 4.00000 | |
| 70 3,3'-Dichlorobenzidine | 252 | | | | | | | |
| 71 Chrysene | 228 | | | | | | | |
| 72 bis(2-Ethylhexyl)phthalate | 149 | | | | | | | |
| * 134 Di-n-octylphthalate-d4 | 153 | | 24.479 | 24.480 | (1.000) | 526309 | 4.00000 | |
| 73 Di-n-octylphthalate | 149 | | | | | | | |
| 74 Benzo(b)fluoranthene | 252 | | | | | | | |
| 75 Benzo(k)fluoranthene | 252 | | | | | | | |
| 76 Benzo(a)pyrene | 252 | | | | | | | |
| * 77 Perylene-d12 | 264 | | 26.182 | 26.183 | (1.000) | 499804 | 4.00000 | |
| 78 Indeno(1,2,3-cd)pyrene | 276 | | | | | | | |
| 79 Dibenzo(a,h)anthracene | 278 | | | | | | | |
| 80 Benzo(g,h,i)perylene | 276 | | | | | | | |
| 90 N-Nitrosodimethylamine | 74 | | | | | | | |
| 91 Aniline | 93 | | | | | | | |
| 93 Benzidine | 184 | | | | | | | |
| 103 Pyridine | 79 | | | | | | | |
| 105 1-methylnaphthalene | 142 | | | | | | | |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77 | | | | | | | |

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

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 15-MAR-2023
 Lab File ID: NT10031512.D Calibration Time: 21:50
 Lab Smp Id: SLC0228-ICB1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt10.i\20230315.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 171542 | 85771 | 343084 | 173115 | 0.92 |
| 27 Naphthalene-d8 | 624466 | 312233 | 1248932 | 625865 | 0.22 |
| 42 Acenaphthene-d10 | 337226 | 168613 | 674452 | 328712 | -2.52 |
| 59 Phenanthrene-d10 | 572849 | 286425 | 1145698 | 592693 | 3.46 |
| 69 Chrysene-d12 | 347068 | 173534 | 694136 | 442208 | 27.41 |
| 134 Di-n-octylphthala | 500317 | 250159 | 1000634 | 526309 | 5.20 |
| 77 Perylene-d12 | 421549 | 210775 | 843098 | 499804 | 18.56 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 9.30 | 8.80 | 9.80 | 9.30 | -0.00 |
| 27 Naphthalene-d8 | 11.78 | 11.28 | 12.28 | 11.78 | -0.00 |
| 42 Acenaphthene-d10 | 15.38 | 14.88 | 15.88 | 15.38 | -0.00 |
| 59 Phenanthrene-d10 | 18.42 | 17.92 | 18.92 | 18.42 | -0.00 |
| 69 Chrysene-d12 | 23.45 | 22.95 | 23.95 | 23.45 | -0.00 |
| 134 Di-n-octylphthala | 24.48 | 23.98 | 24.98 | 24.48 | -0.00 |
| 77 Perylene-d12 | 26.18 | 25.68 | 26.68 | 26.18 | -0.00 |

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

REVIEW SUMMARY FOR FILE - NT10031512.D

Lab ID: SLC0228-ICB1
nt10.i, 20230315.b\ABN.m, 16-MAR-2023 02:54

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

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

NONE

RRT check based on Ccal File: NT10031508.D

On Column LOD for nt10.i, 20230315.b\ABN.m, ICAL.sub = 0.0000

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



SECOND-SOURCE CALIBRATION VERIFICATION
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Calibration: GC00033

Laboratory ID: SLB0374-SCV1

Sequence: SLB0374

Sequence Name: SCV 5.0

Standard ID: K010066

| ANALYTE | EXPECTED (ug/mL) | FOUND (ug/mL) | % DRIFT | QC LIMIT |
|------------------------------|---------------------|------------------|---------|----------|
| Phenol | 5.0000 | 3.9 | -21.3 * | 20.00 |
| bis(2-chloroethyl) ether | 5.0000 | 5.2 | 4.7 | 20.00 |
| 2-Chlorophenol | 5.0000 | 4.6 | -7.4 | 20.00 |
| 1,3-Dichlorobenzene | 5.0000 | 4.8 | -4.1 | 20.00 |
| 1,4-Dichlorobenzene | 5.0000 | 4.8 | -4.0 | 20.00 |
| 1,2-Dichlorobenzene | 5.0000 | 4.8 | -3.9 | 20.00 |
| Benzyl Alcohol | 5.0000 | 4.3 | -13.9 | 20.00 |
| 2,2'-Oxybis(1-chloropropane) | 5.0000 | 5.5 | 10.2 | 20.00 |
| 2-Methylphenol | 5.0000 | 4.4 | -11.9 | 20.00 |
| Hexachloroethane | 5.0000 | 5.1 | 1.8 | 20.00 |
| N-Nitroso-di-n-Propylamine | 5.0000 | 5.1 | 2.8 | 20.00 |
| 4-Methylphenol | 5.0000 | 4.2 | -15.6 | 20.00 |
| Nitrobenzene | 5.0000 | 5.1 | 1.2 | 20.00 |
| Isophorone | 5.0000 | 6.4 | 28.2 * | 20.00 |
| 2-Nitrophenol | 5.0000 | 4.1 | -17.5 | 20.00 |
| 2,4-Dimethylphenol | 5.0000 | 3.9 | -22.2 * | 20.00 |
| Bis(2-Chloroethoxy)methane | 5.0000 | 5.8 | 15.3 | 20.00 |
| 2,4-Dichlorophenol | 5.0000 | 4.8 | -4.3 | 20.00 |
| 1,2,4-Trichlorobenzene | 5.0000 | 4.8 | -4.2 | 20.00 |
| Naphthalene | 5.0000 | 4.8 | -4.7 | 20.00 |
| Benzoic acid | 10.0000 | 4.1 | -59.3 * | 20.00 |
| 4-Chloroaniline | 5.0000 | 3.9 | -22.1 * | 20.00 |
| Hexachlorobutadiene | 5.0000 | 4.8 | -3.9 | 20.00 |
| 4-Chloro-3-Methylphenol | 5.0000 | 4.9 | -2.8 | 20.00 |
| 2-Methylnaphthalene | 5.0000 | 4.6 | -7.5 | 20.00 |
| Hexachlorocyclopentadiene | 5.0000 | 4.5 | -9.3 | 20.00 |
| 2,4,6-Trichlorophenol | 5.0000 | 4.8 | -4.2 | 20.00 |
| 2,4,5-Trichlorophenol | 5.0000 | 4.7 | -6.6 | 20.00 |
| 2-Chloronaphthalene | 5.0000 | 4.9 | -1.8 | 20.00 |
| 2-Nitroaniline | 5.0000 | 5.0 | -0.4 | 20.00 |
| Acenaphthylene | 5.0000 | 5.0 | -0.5 | 20.00 |
| Dimethylphthalate | 5.0000 | 5.2 | 4.1 | 20.00 |
| 2,6-Dinitrotoluene | 5.0000 | 5.2 | 4.5 | 20.00 |
| Acenaphthene | 5.0000 | 4.8 | -4.7 | 20.00 |



SECOND-SOURCE CALIBRATION VERIFICATION
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Calibration: GC00033

Laboratory ID: SLB0374-SCV1

Sequence: SLB0374

Sequence Name: SCV 5.0

Standard ID: K010066

| | | | | |
|-----------------------------|--------|------|---------|-------|
| 3-Nitroaniline | 5.0000 | 4.9 | -2.6 | 20.00 |
| 2,4-Dinitrophenol | 5.0000 | 1.0 | -80.4 * | 20.00 |
| Dibenzofuran | 5.0000 | 4.7 | -5.6 | 20.00 |
| 4-Nitrophenol | 5.0000 | 3.9 | -21.3 * | 20.00 |
| 2,4-Dinitrotoluene | 5.0000 | 4.9 | -1.2 | 20.00 |
| Fluorene | 5.0000 | 4.8 | -4.1 | 20.00 |
| 4-Chlorophenylphenyl ether | 5.0000 | 4.9 | -2.3 | 20.00 |
| Diethyl phthalate | 5.0000 | 5.4 | 8.4 | 20.00 |
| 4-Nitroaniline | 5.0000 | 4.6 | -8.8 | 20.00 |
| 4,6-Dinitro-2-methylphenol | 5.0000 | 3.2 | -35.3 * | 20.00 |
| N-Nitrosodiphenylamine | 5.0000 | 5.0 | -0.4 | 20.00 |
| 4-Bromophenyl phenyl ether | 5.0000 | 5.2 | 3.0 | 20.00 |
| Hexachlorobenzene | 5.0000 | 4.8 | -4.2 | 20.00 |
| Pentachlorophenol | 5.0000 | 3.5 | -29.5 * | 20.00 |
| Phenanthrene | 5.0000 | 4.6 | -7.7 | 20.00 |
| Anthracene | 5.0000 | 4.2 | -15.5 | 20.00 |
| Carbazole | 5.0000 | 4.8 | -4.5 | 20.00 |
| Di-n-Butylphthalate | 5.0000 | 4.8 | -3.6 | 20.00 |
| Fluoranthene | 5.0000 | 5.1 | 2.1 | 20.00 |
| Pyrene | 5.0000 | 5.0 | -0.9 | 20.00 |
| Butylbenzylphthalate | 5.0000 | 5.0 | -0.7 | 20.00 |
| Benzo(a)anthracene | 5.0000 | 4.9 | -1.7 | 20.00 |
| 3,3'-Dichlorobenzidine | 10.000 | 10.3 | 2.9 | 20.00 |
| Chrysene | 5.0000 | 4.6 | -8.9 | 20.00 |
| bis(2-Ethylhexyl)phthalate | 5.0000 | 5.3 | 5.5 | 20.00 |
| Di-n-Octylphthalate | 5.0000 | 5.2 | 3.7 | 20.00 |
| Benzo(a)fluoranthene, Total | 10.000 | 9.6 | -4.4 | 20.00 |
| Benzo(a)pyrene | 5.0000 | 4.9 | -2.3 | 20.00 |
| Indeno(1,2,3-cd)pyrene | 5.0000 | 4.9 | -2.2 | 20.00 |
| Dibenzo(a,h)anthracene | 5.0000 | 4.9 | -1.9 | 20.00 |
| Benzo(g,h,i)perylene | 5.0000 | 4.9 | -2.8 | 20.00 |
| 1-Methylnaphthalene | 5.0000 | 4.9 | -2.6 | 20.00 |

* Indicates values outside of QC limits

Data File: \\target\share\chem3\nt14,1\20230228,16\NT1423022812.D

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Sample Info: SLB0374-SCV1

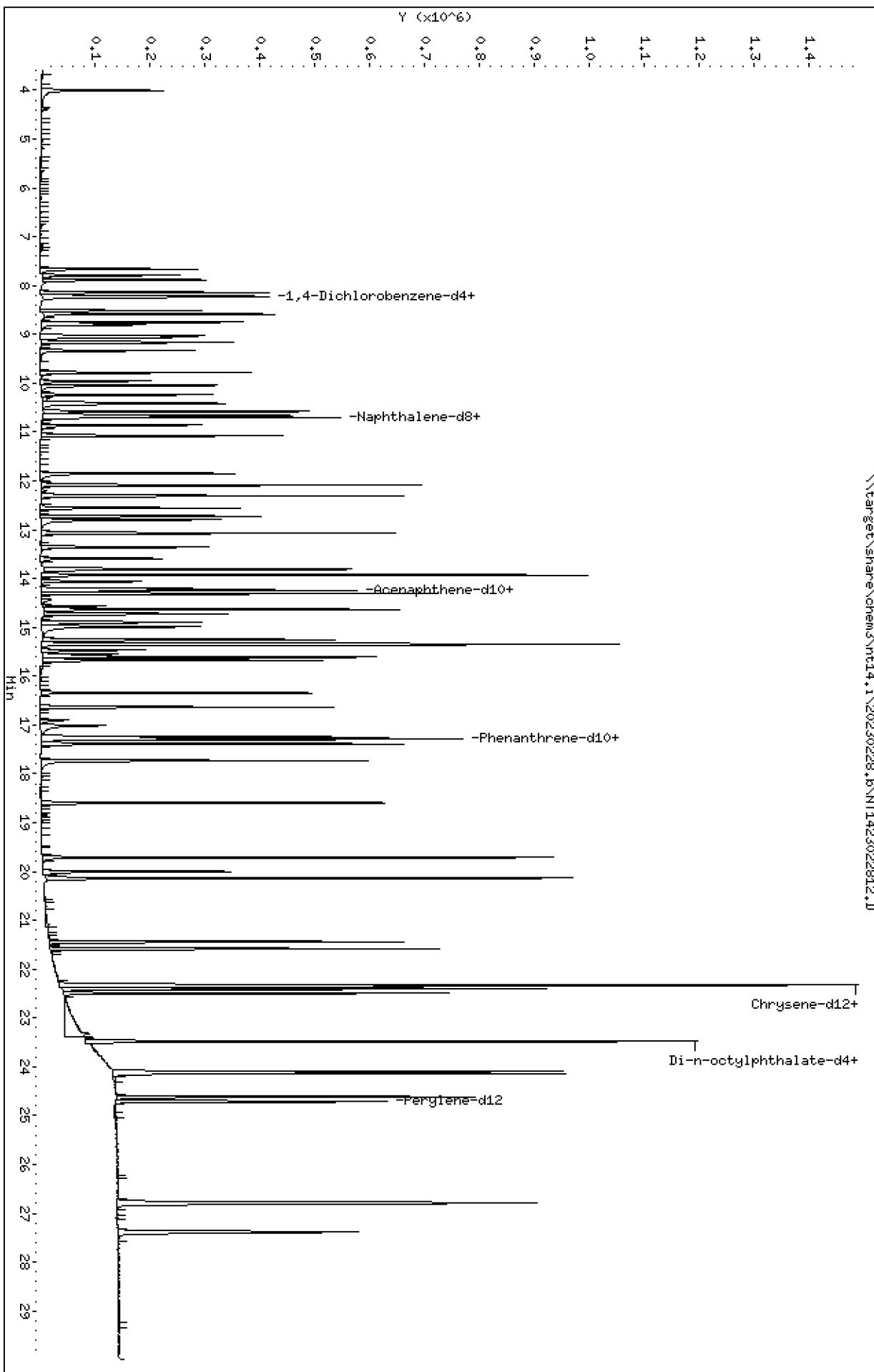
Column phase: ZB-5msi

Instrument: nt14,1

Operator: JGR

Column diameter: 0.25

\\target\share\chem3\nt14,1\20230228,16\NT1423022812.D



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

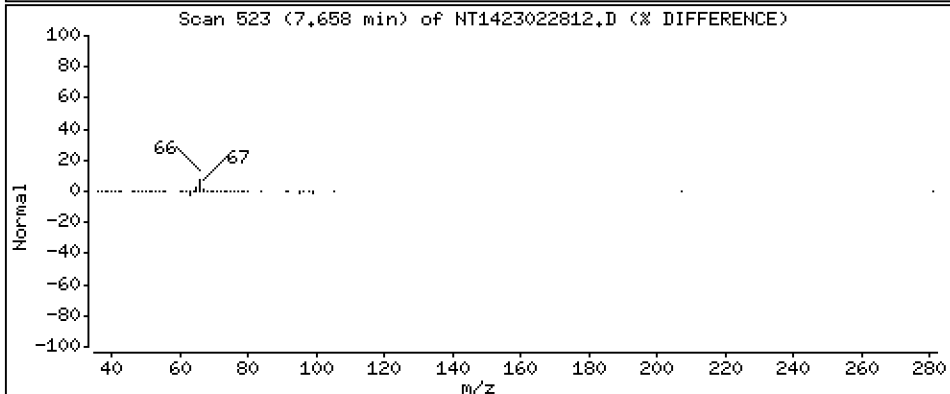
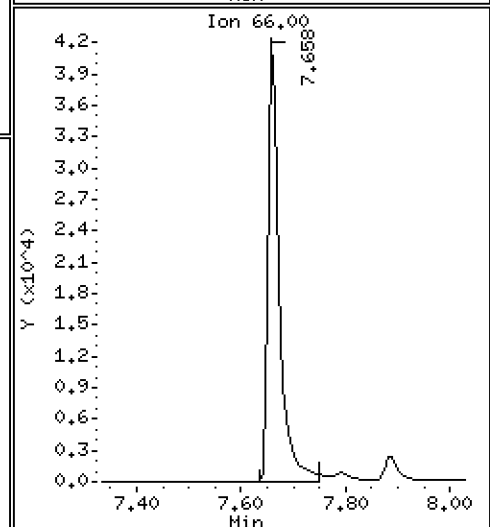
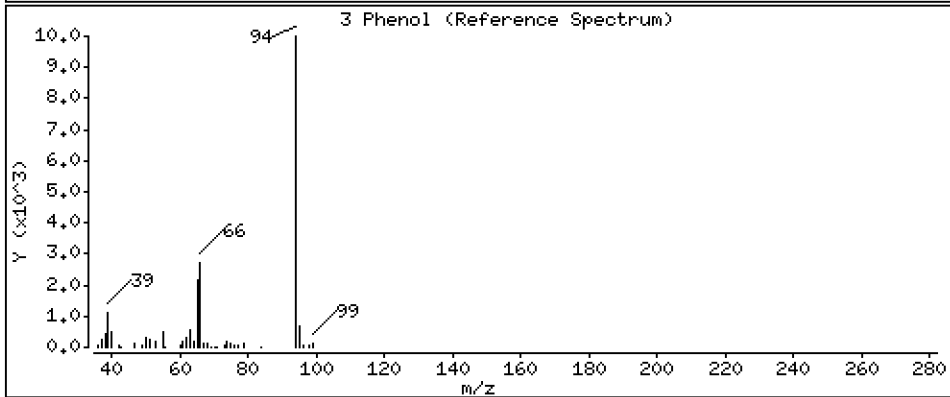
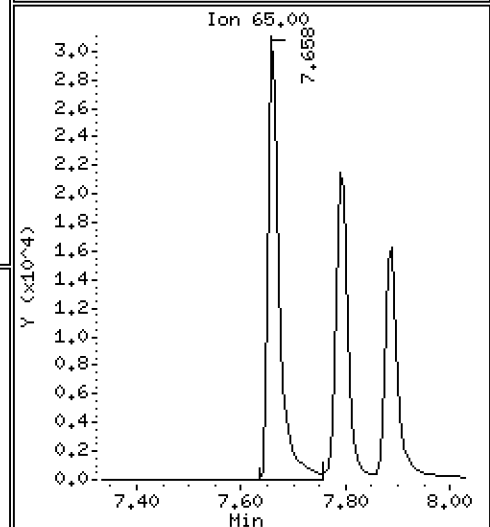
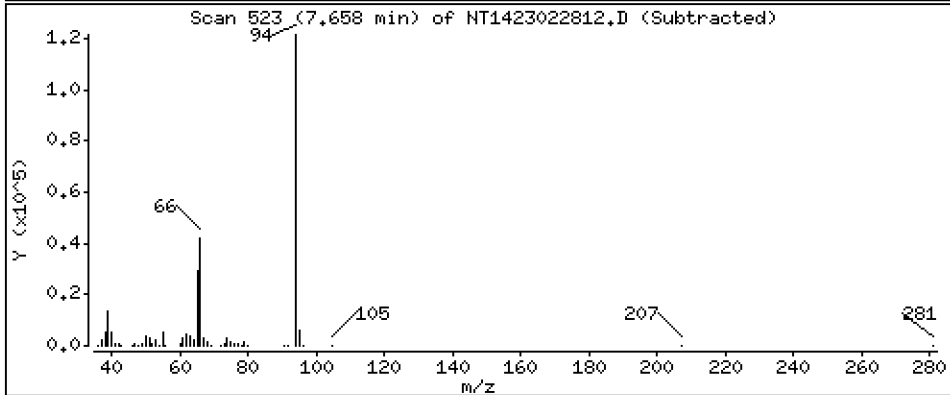
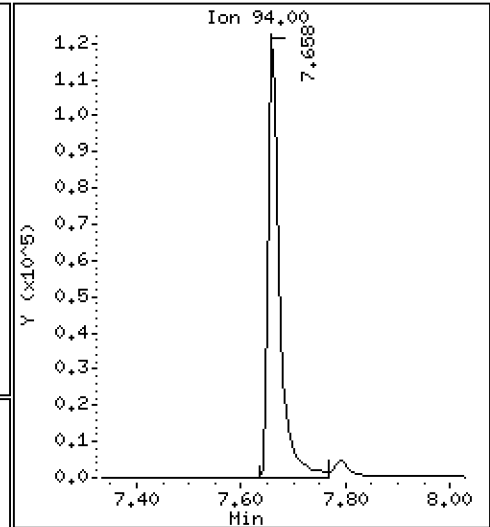
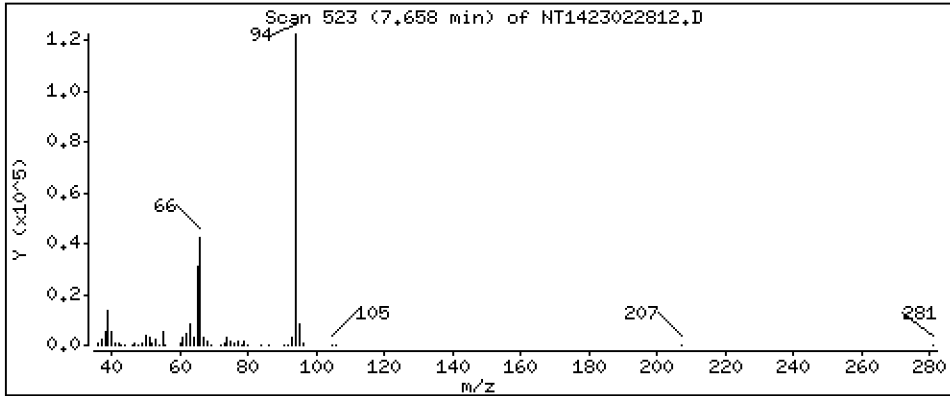
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

3 Phenol

Concentration: 3.935 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

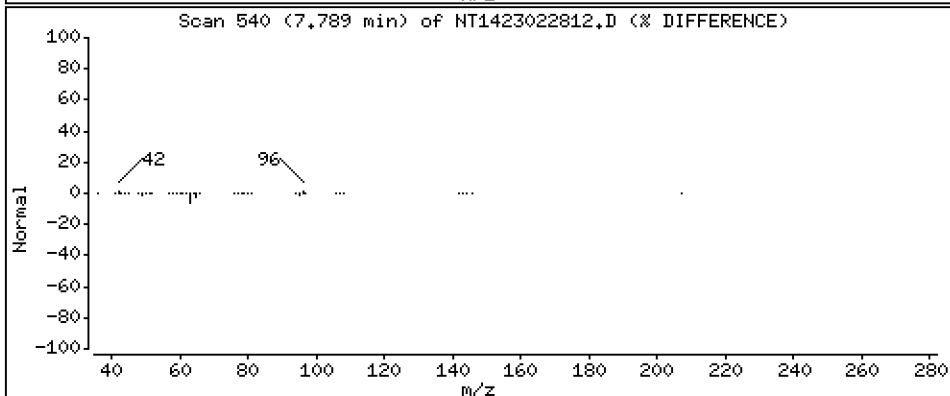
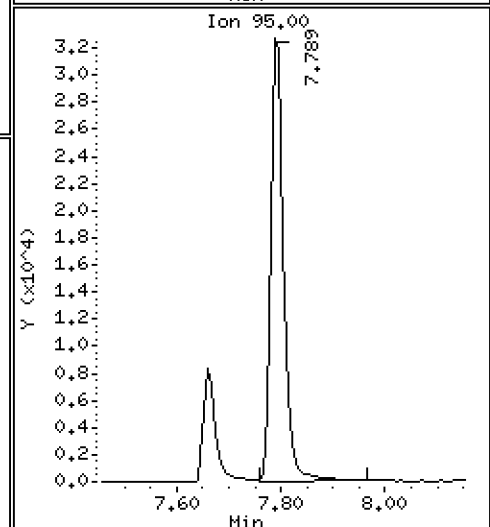
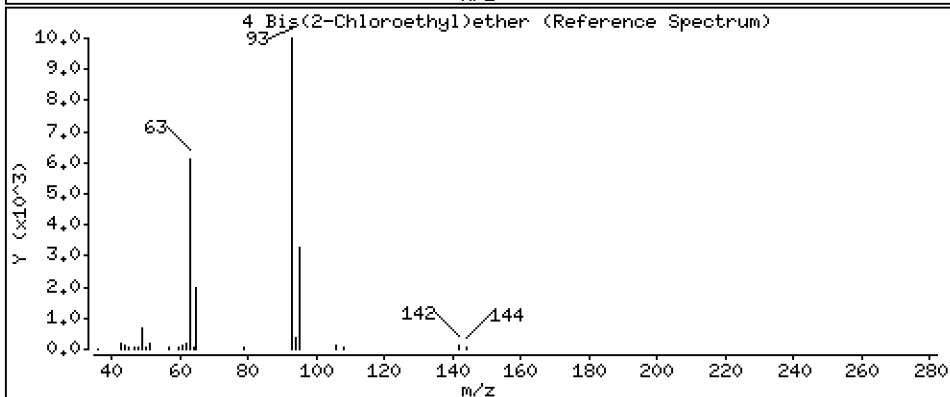
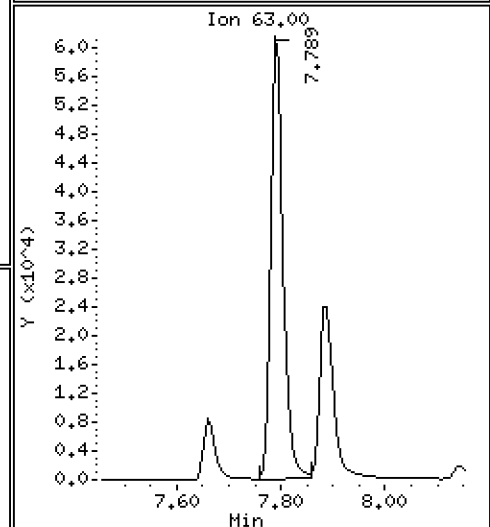
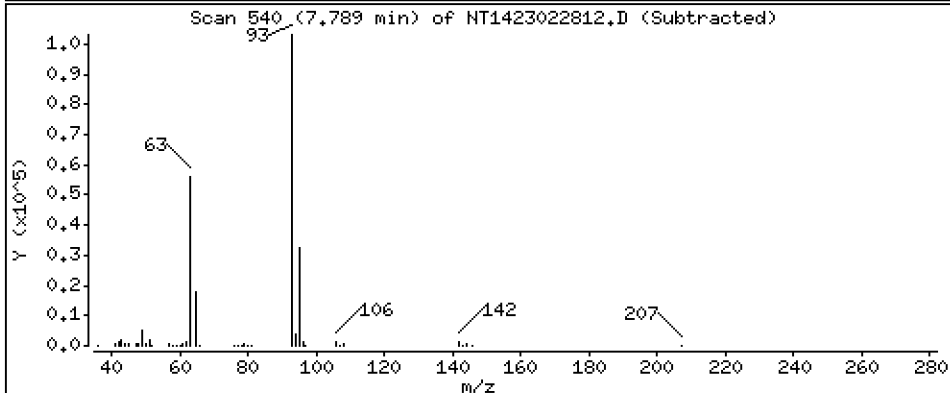
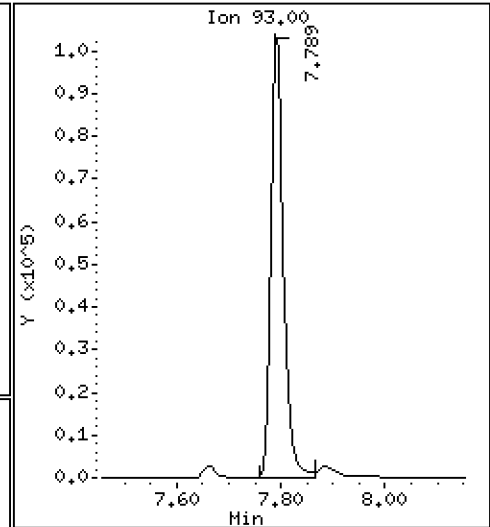
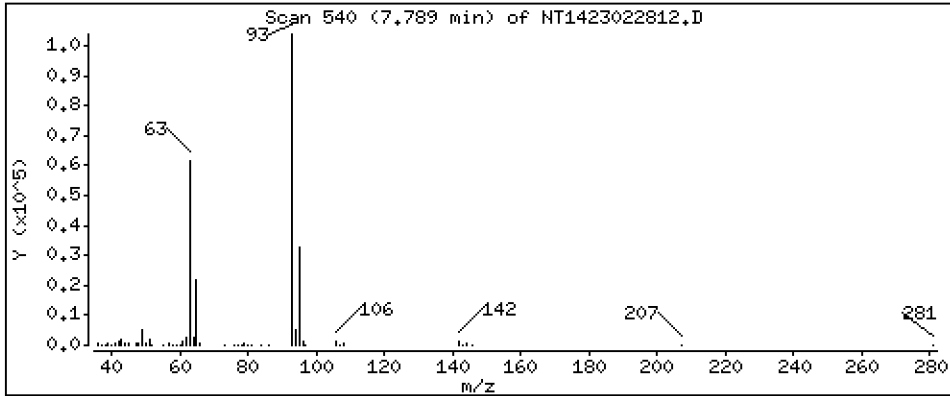
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

4 Bis(2-Chloroethyl)ether

Concentration: 5.224 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

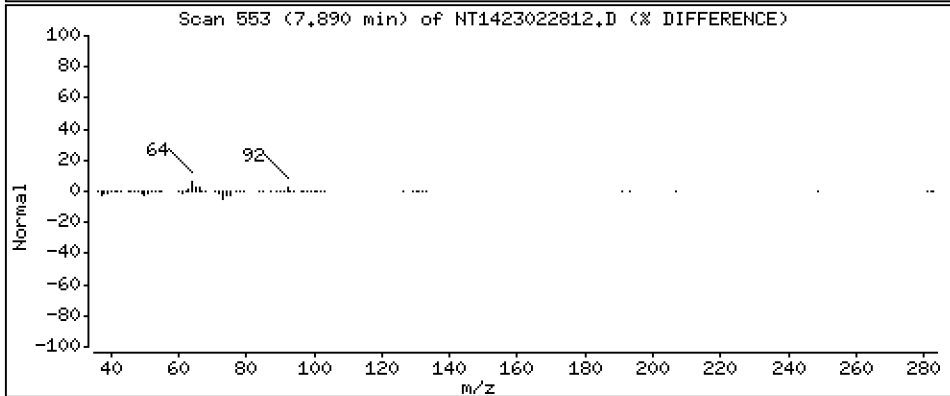
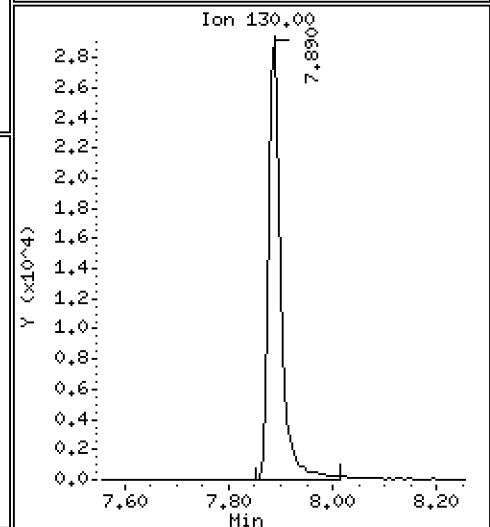
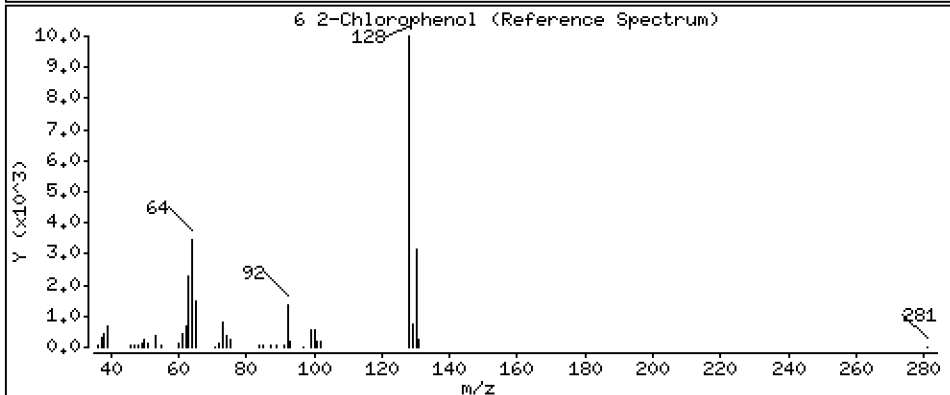
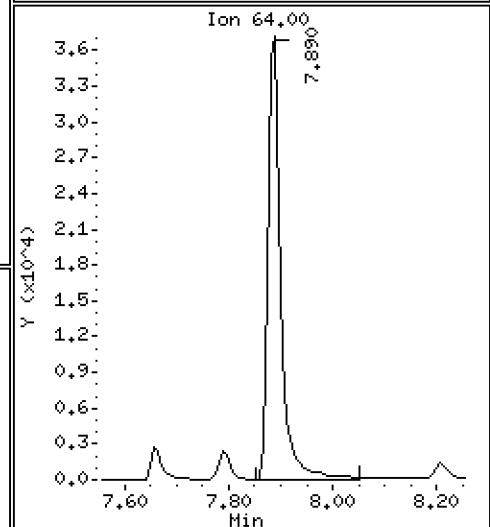
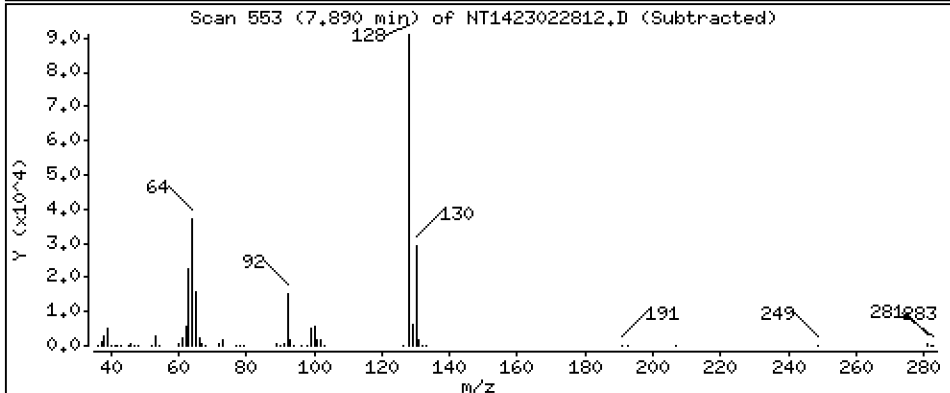
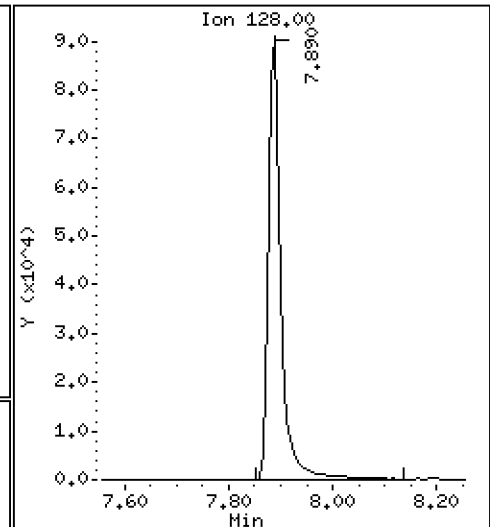
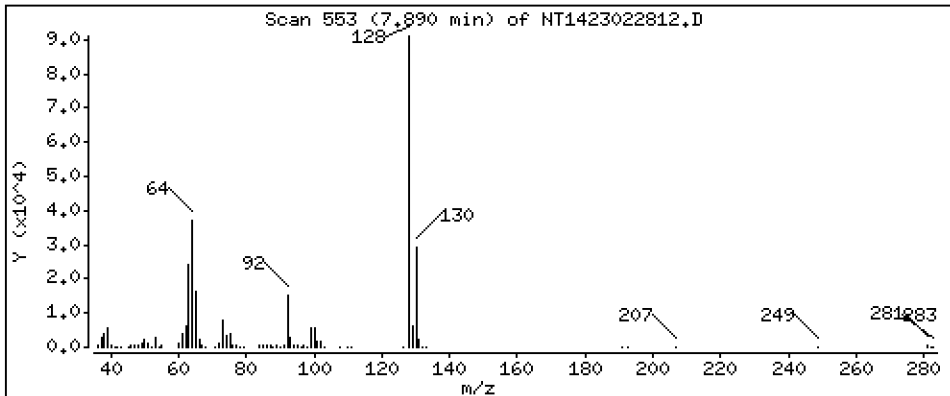
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 4,632 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

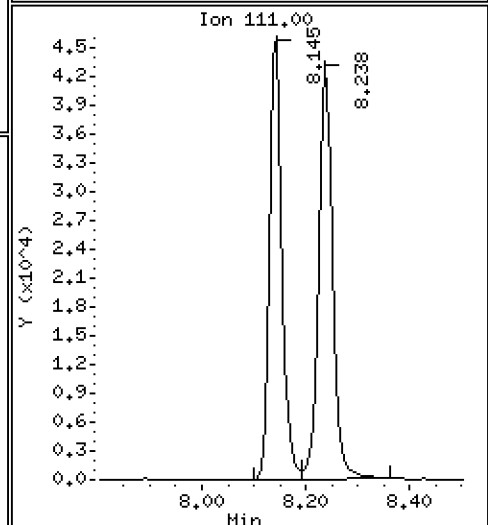
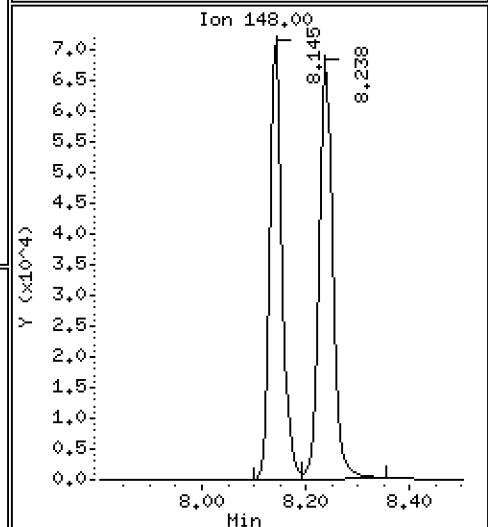
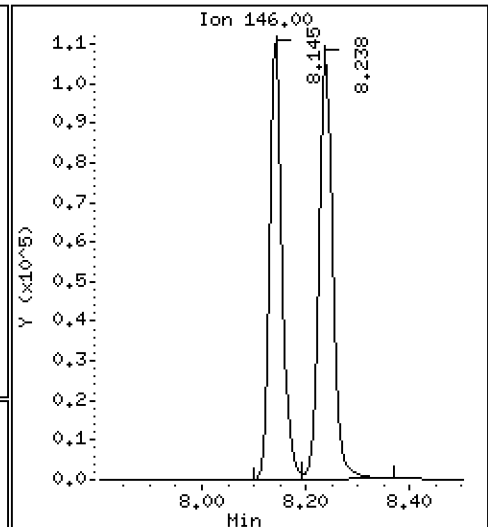
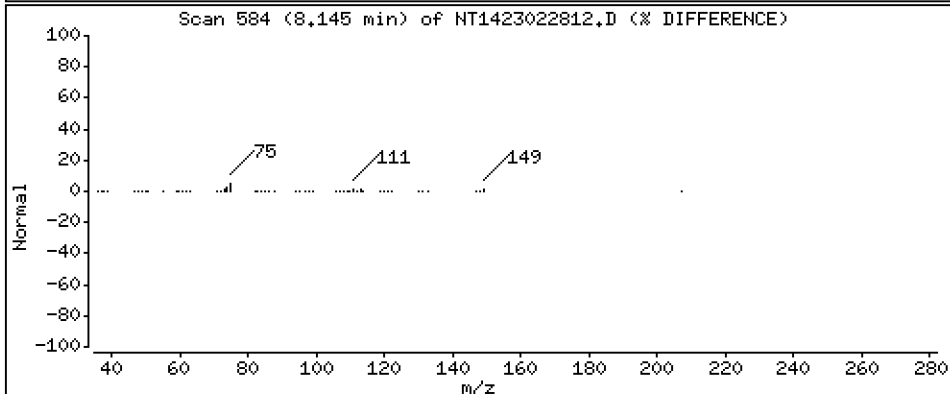
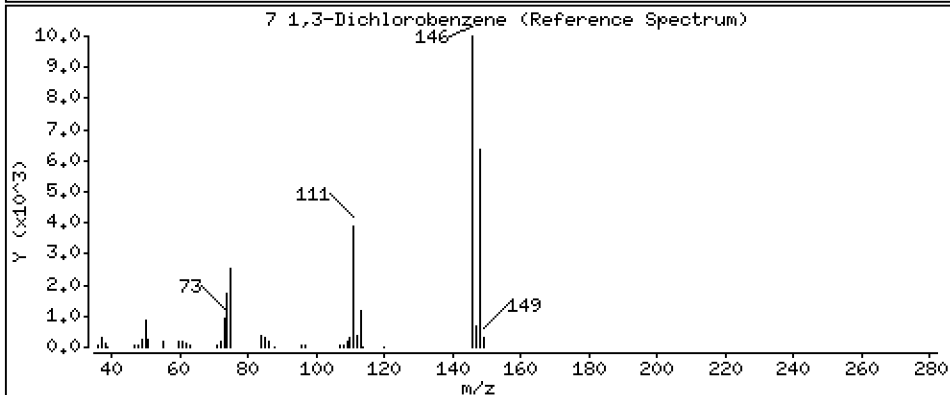
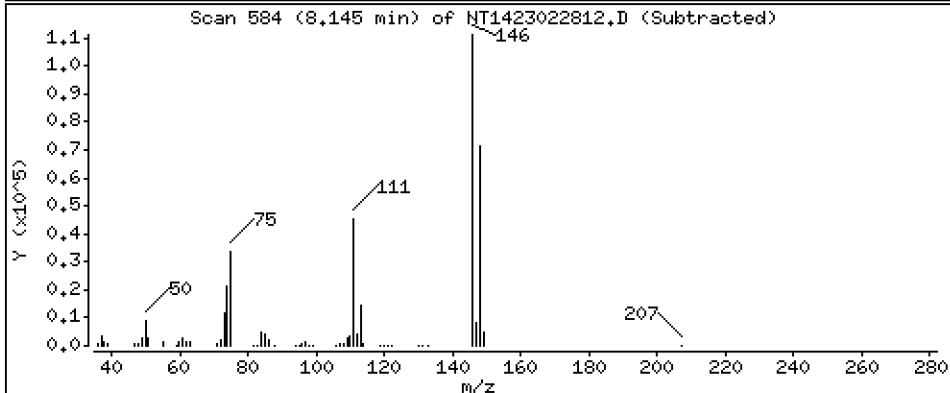
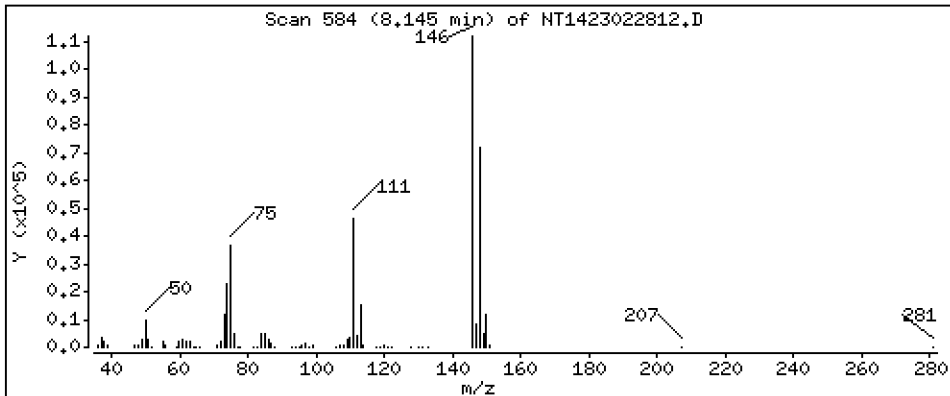
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

7 1,3-Dichlorobenzene

Concentration: 4,795 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

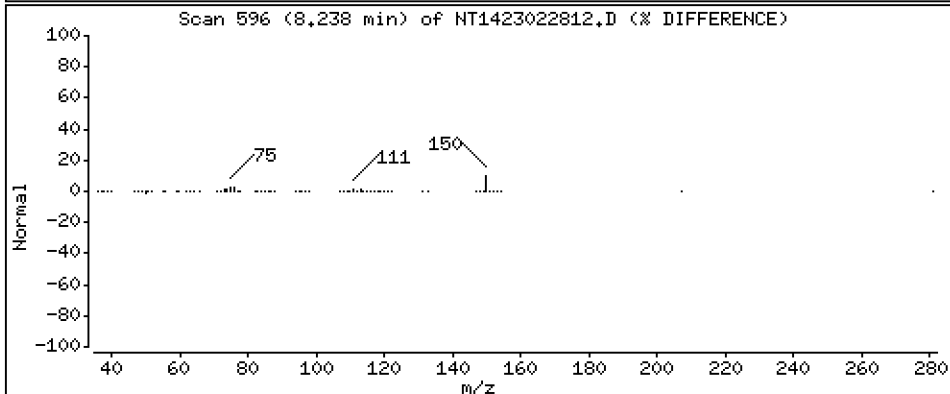
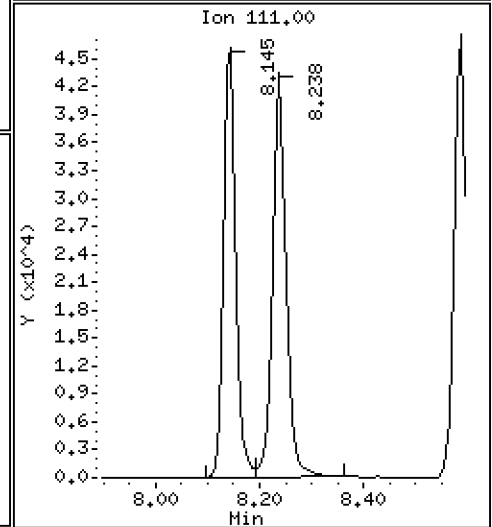
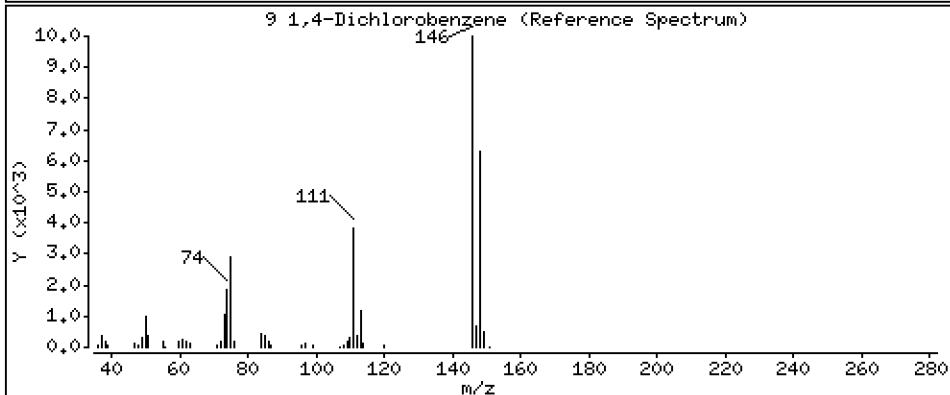
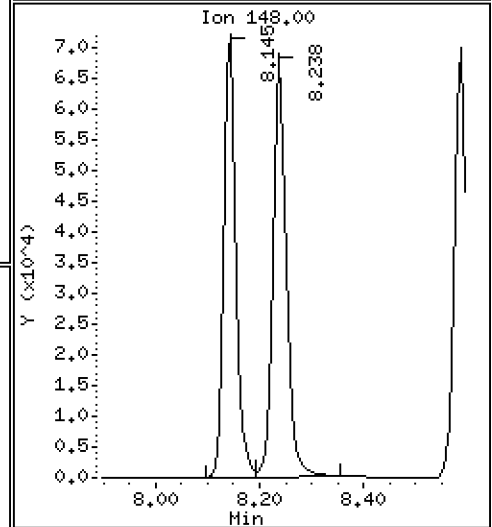
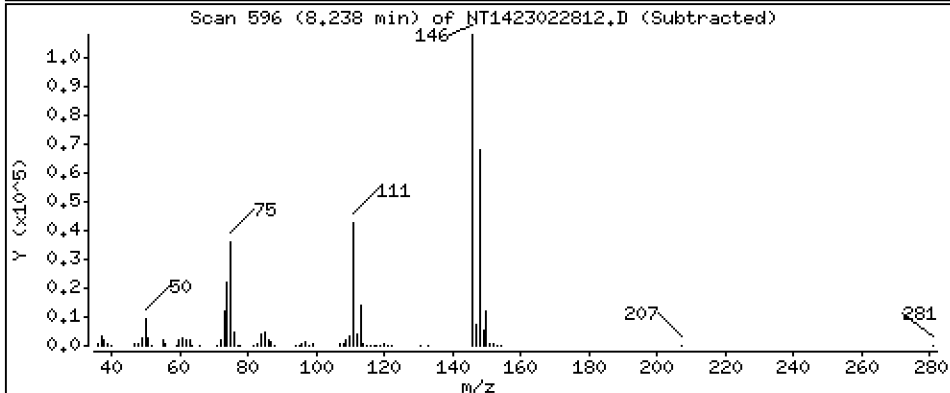
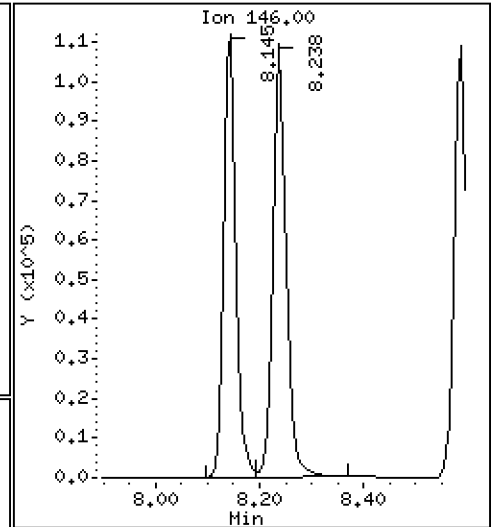
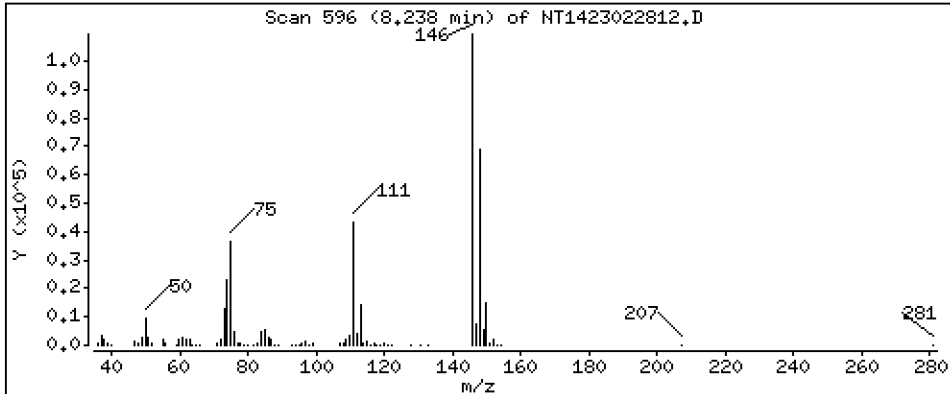
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 4,800 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

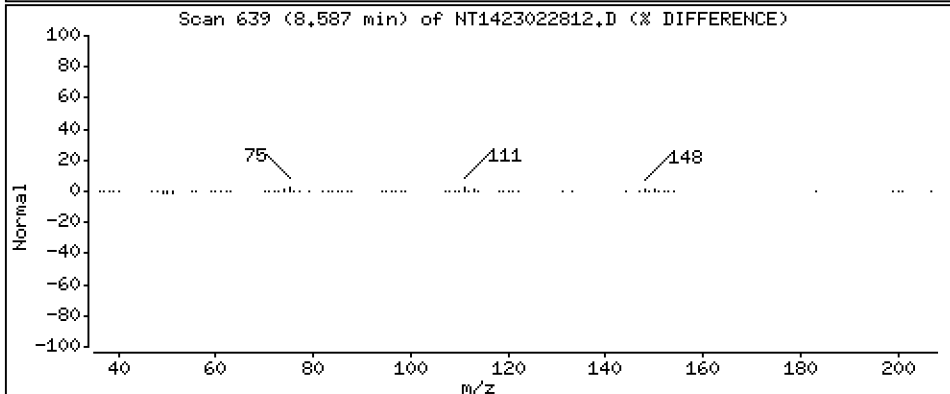
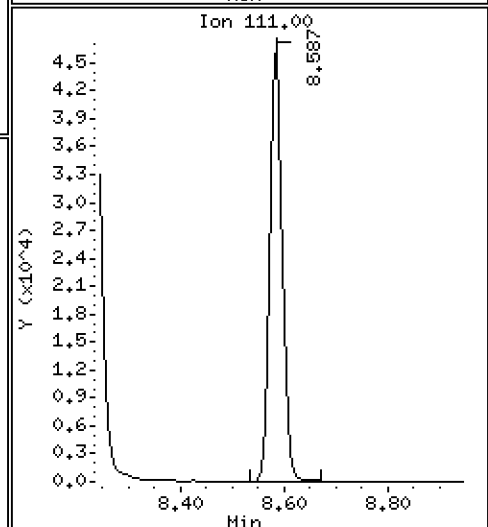
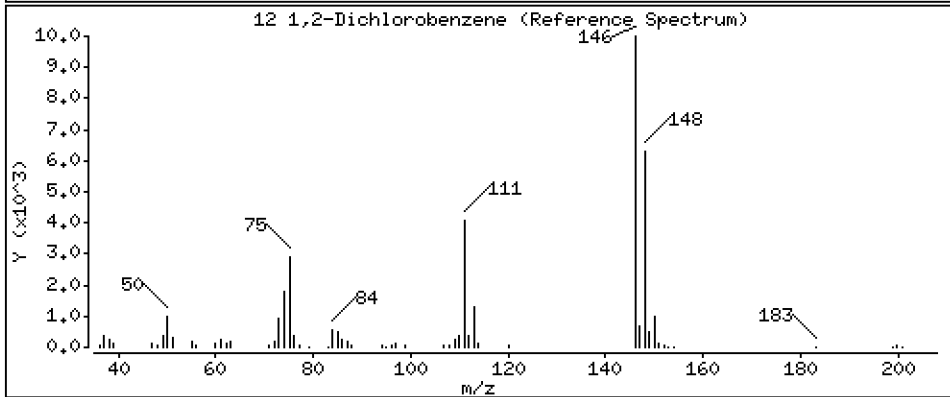
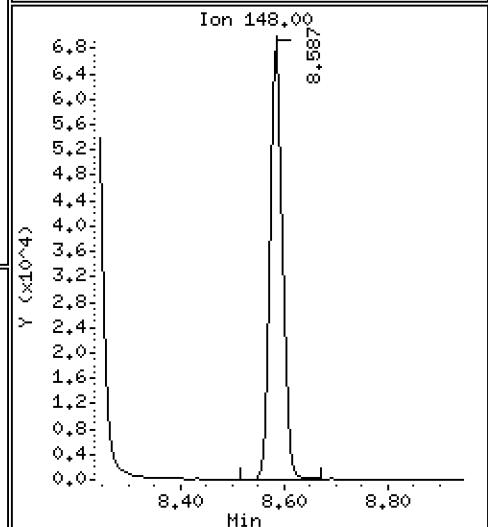
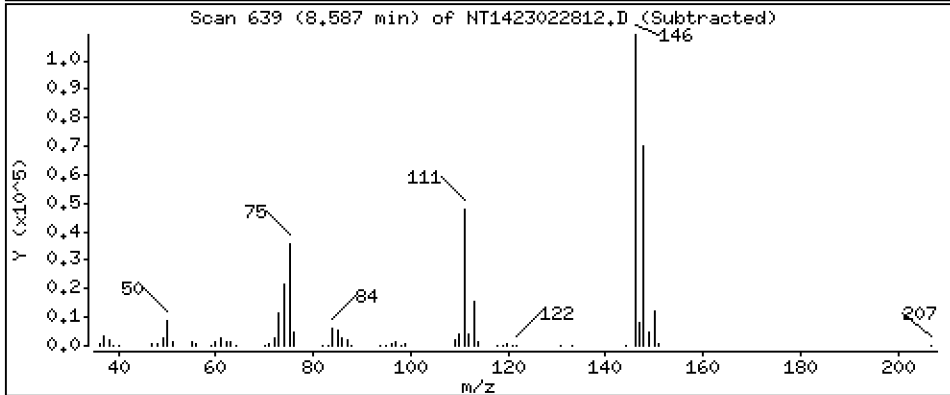
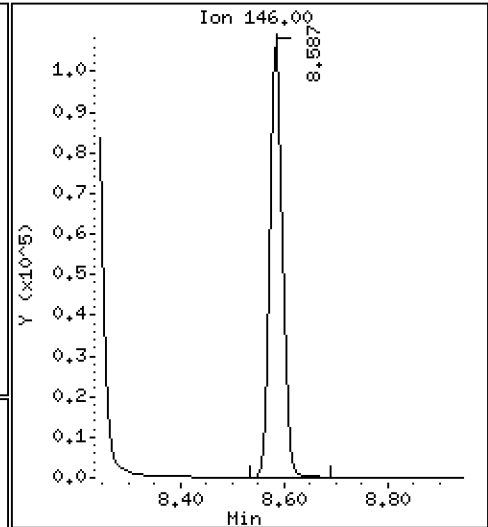
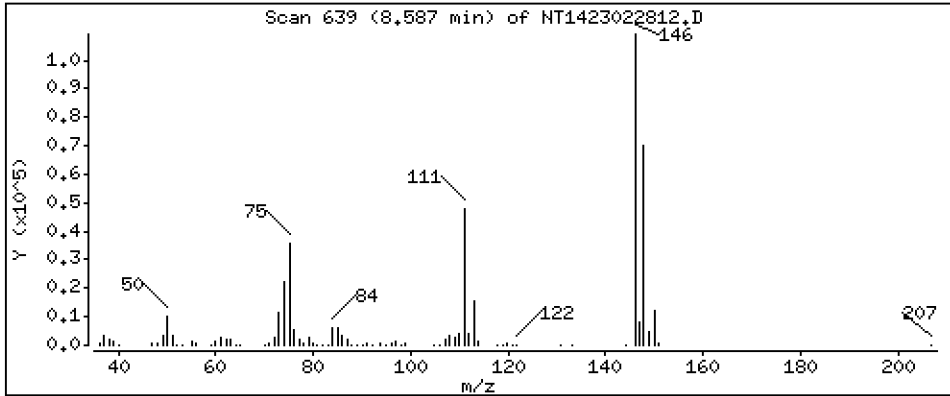
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

12 1,2-Dichlorobenzene

Concentration: 4.807 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

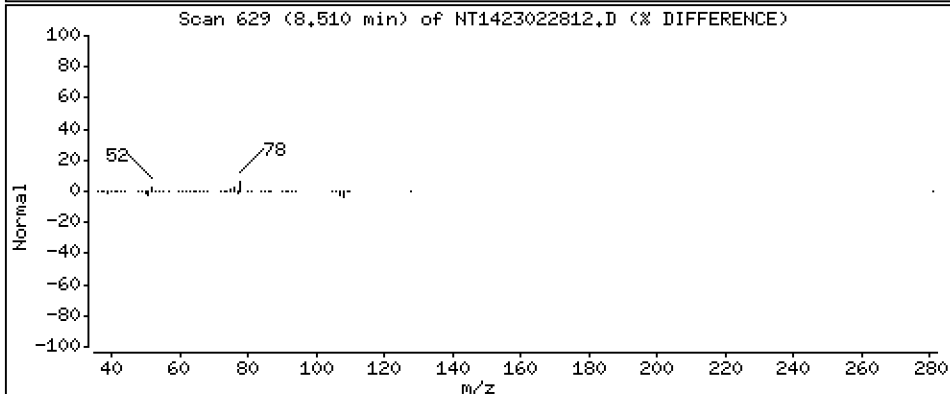
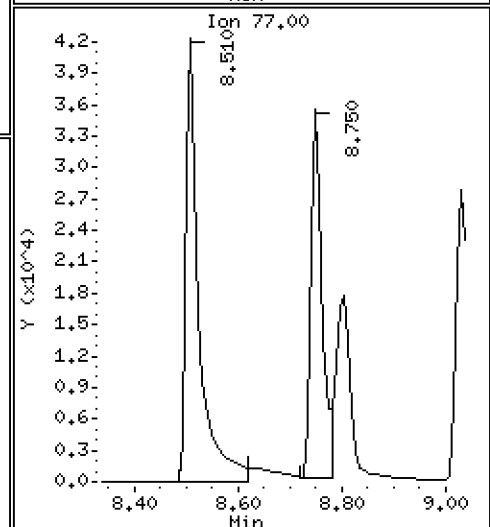
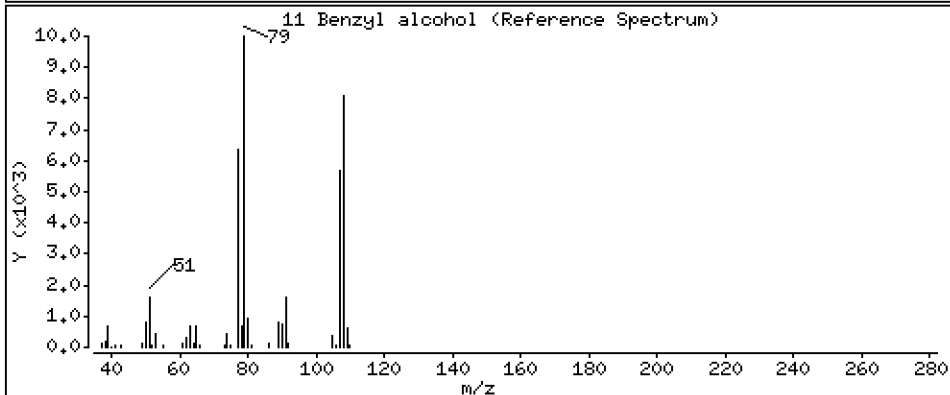
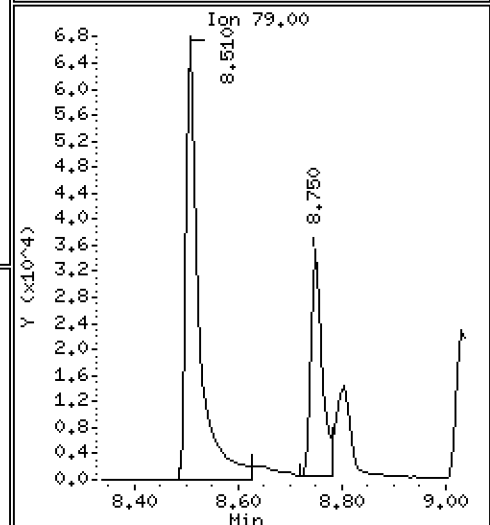
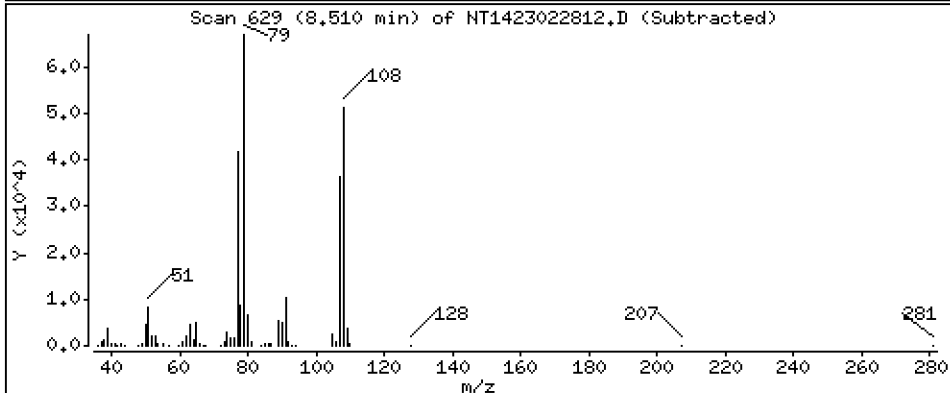
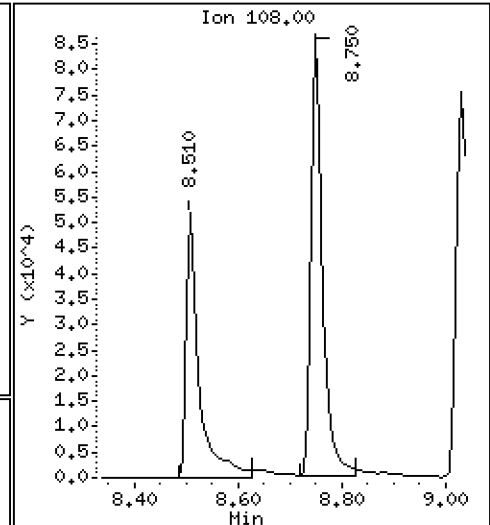
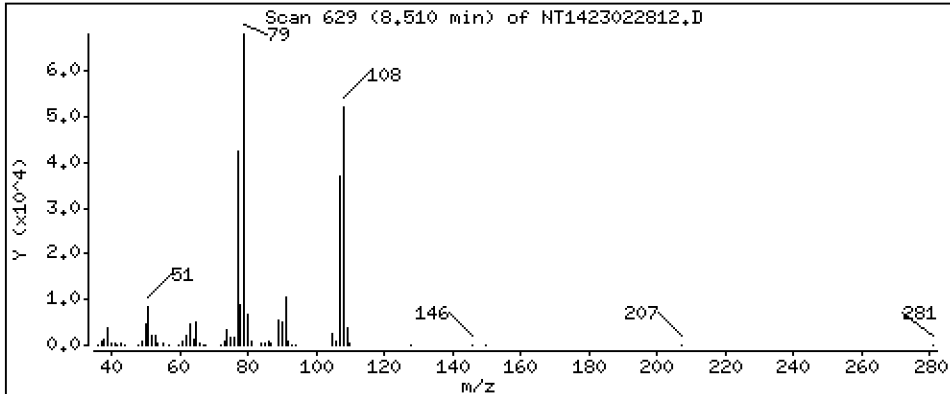
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

11 Benzyl alcohol

Concentration: 4,304 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

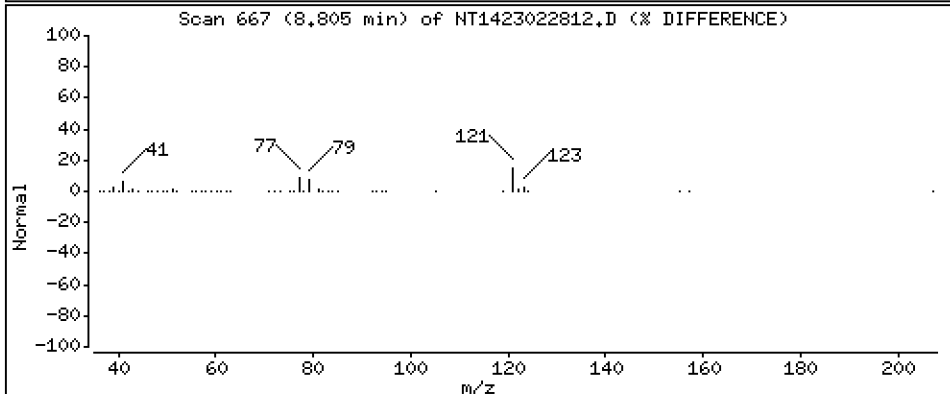
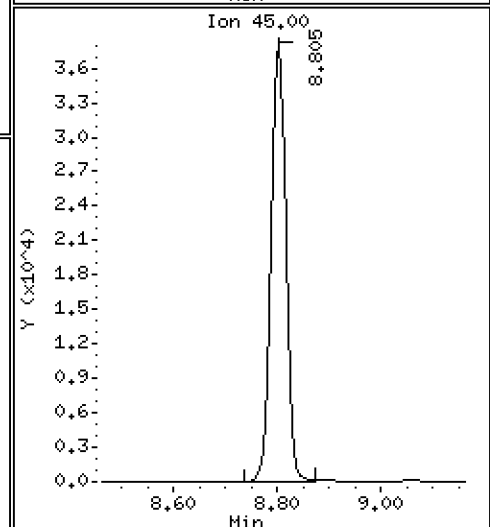
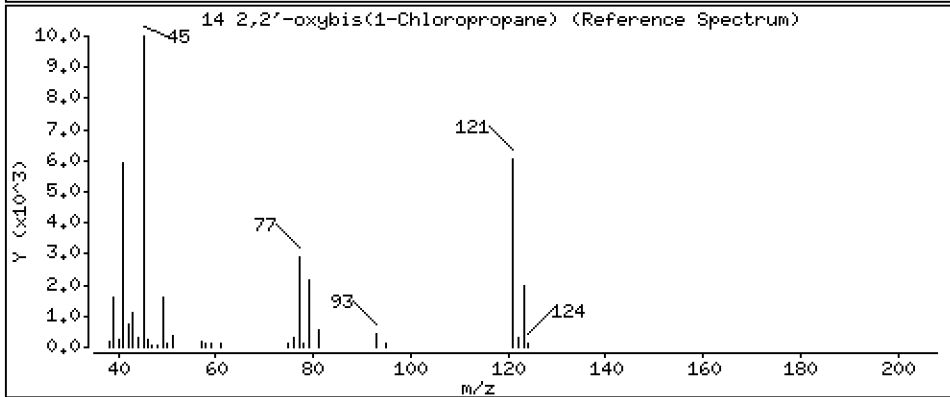
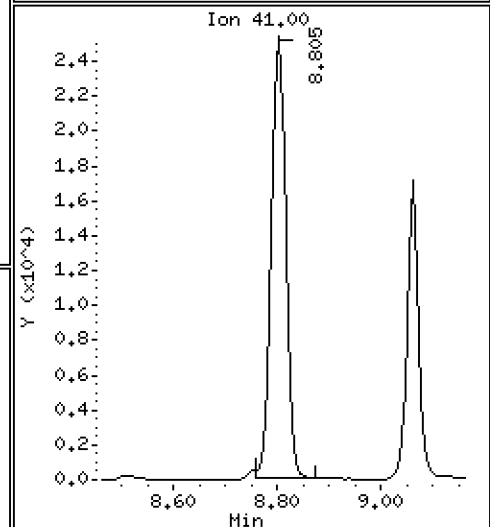
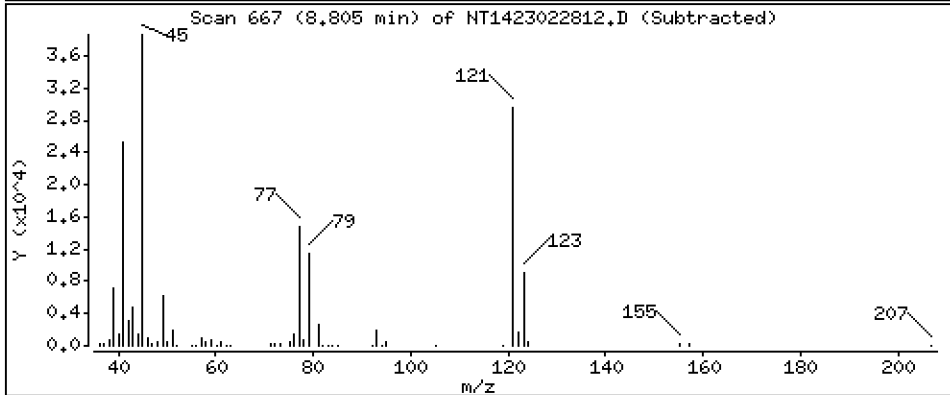
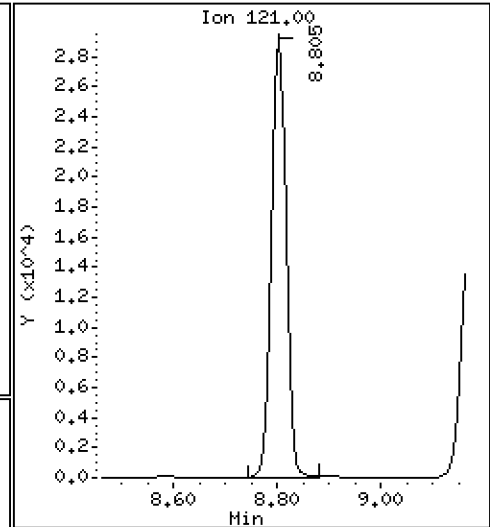
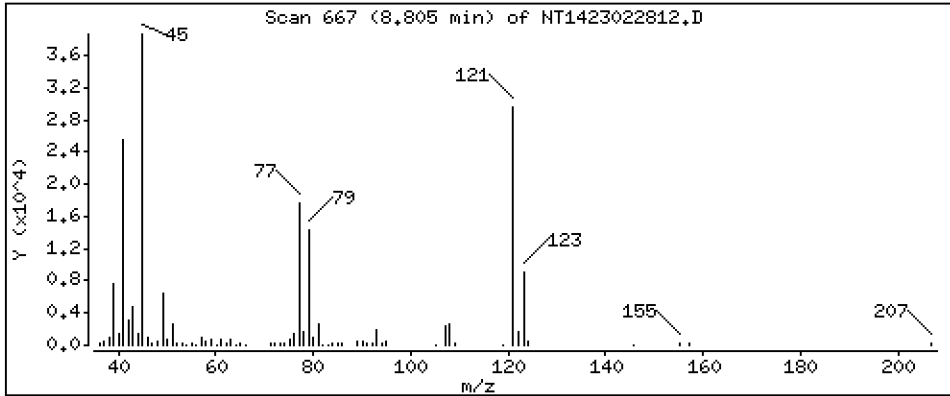
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 5,510 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

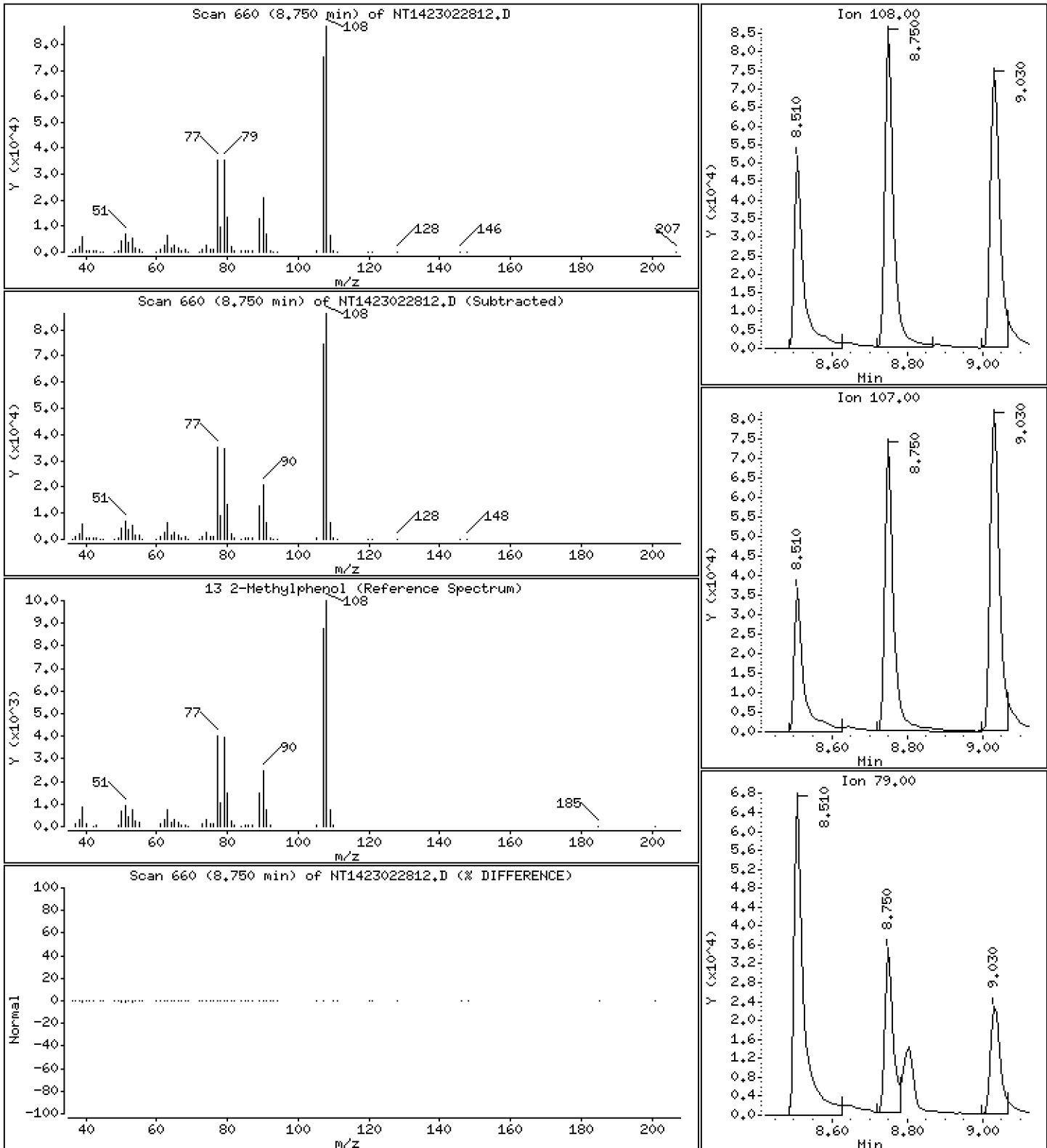
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

13 2-Methylphenol

Concentration: 4.407 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

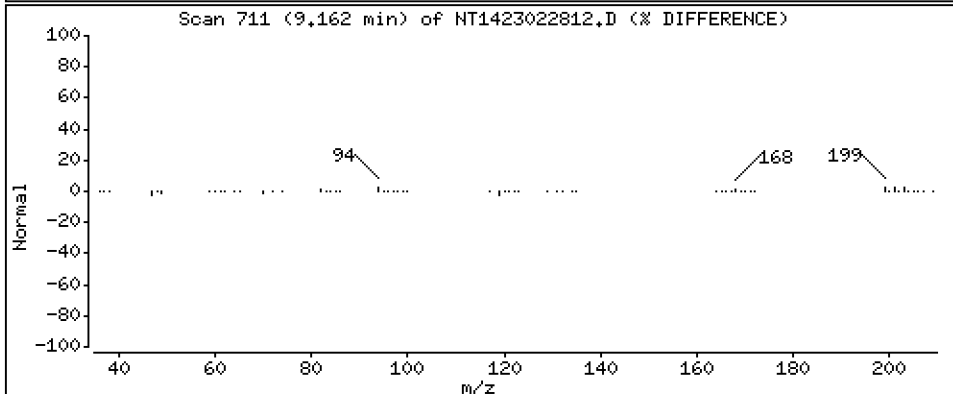
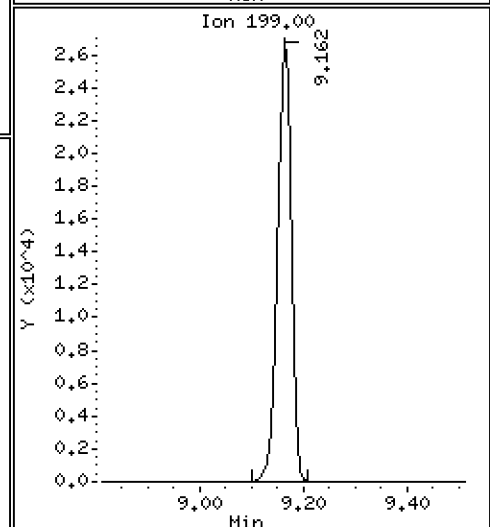
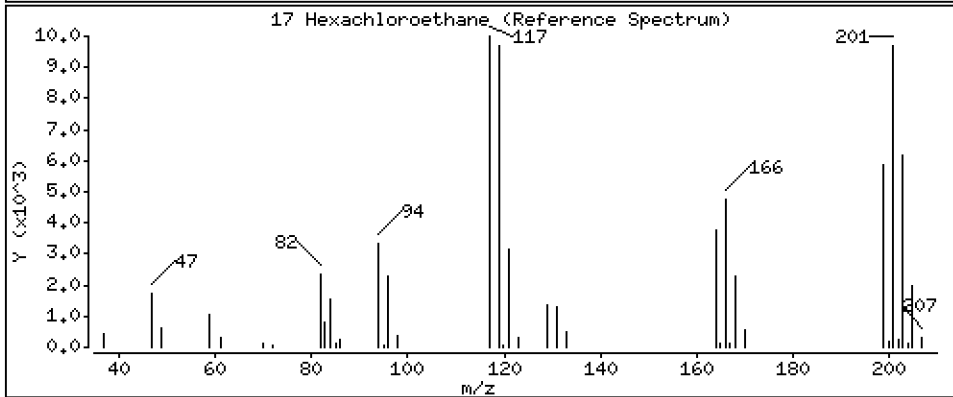
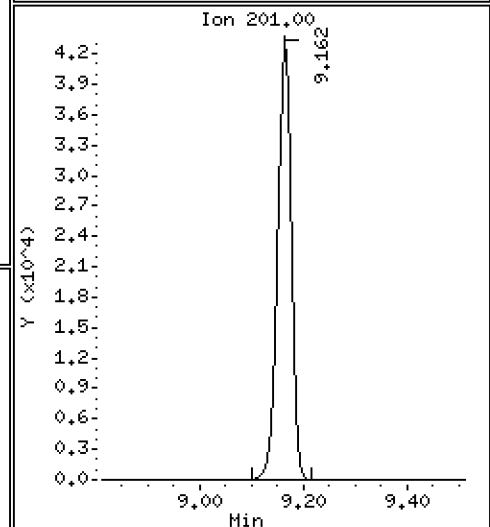
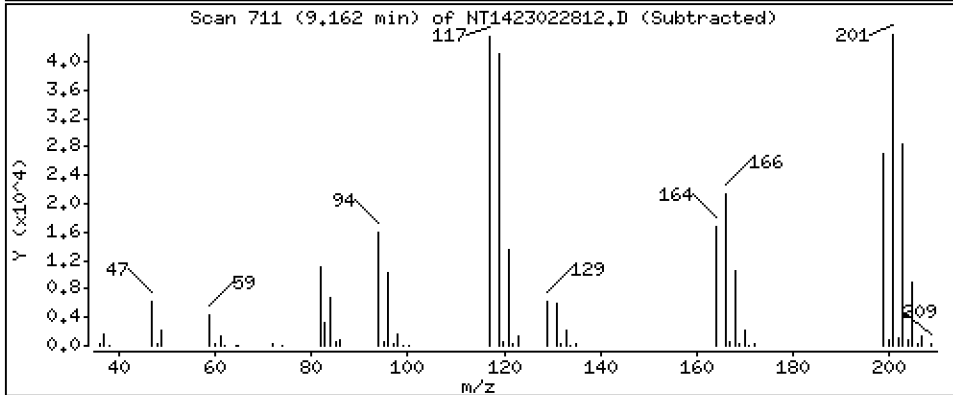
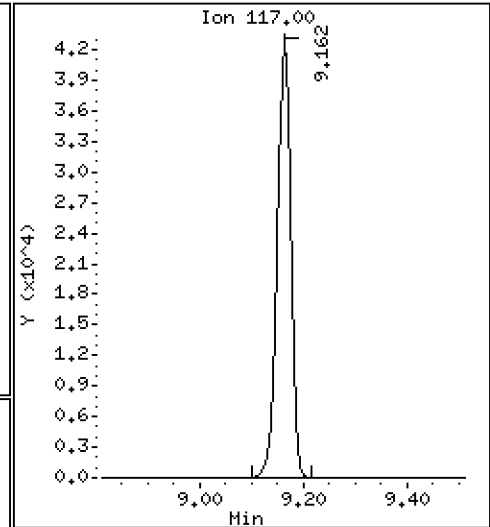
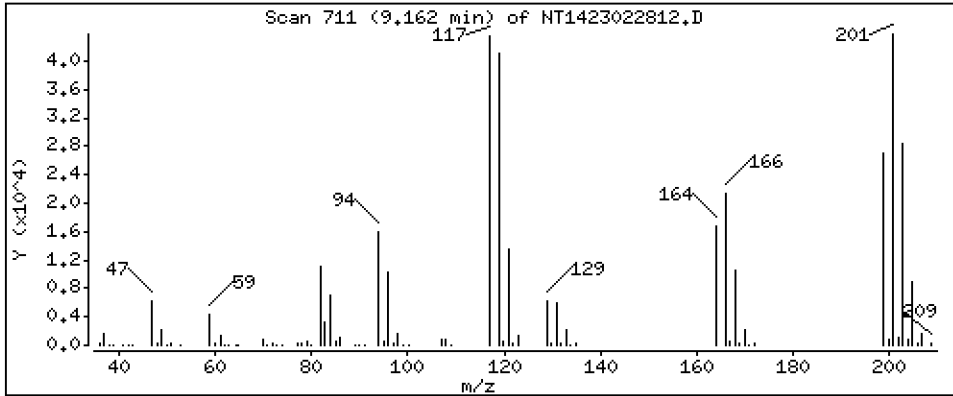
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

17 Hexachloroethane

Concentration: 5.089 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

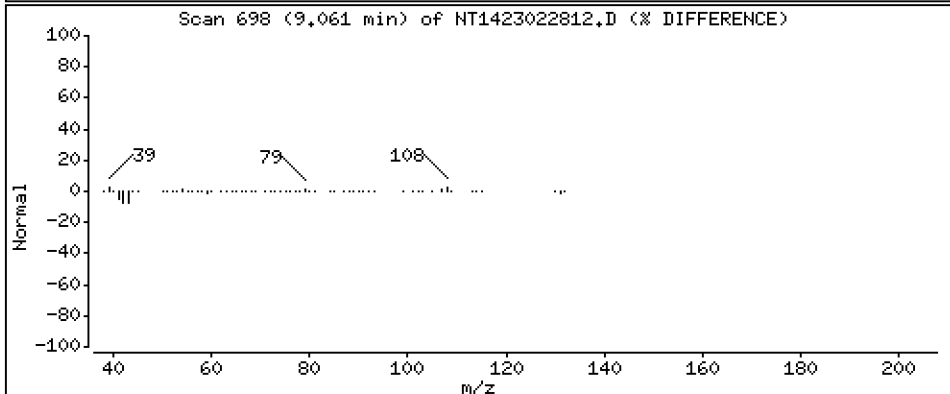
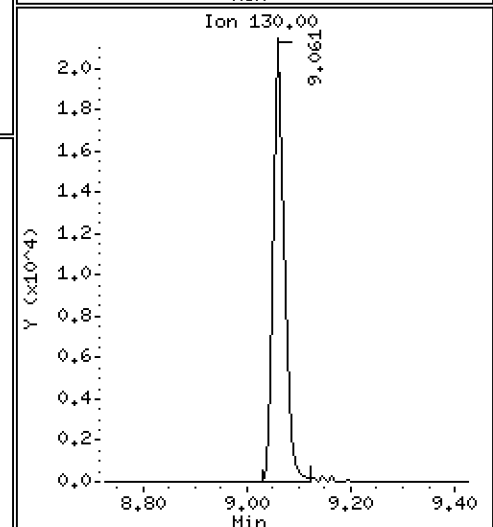
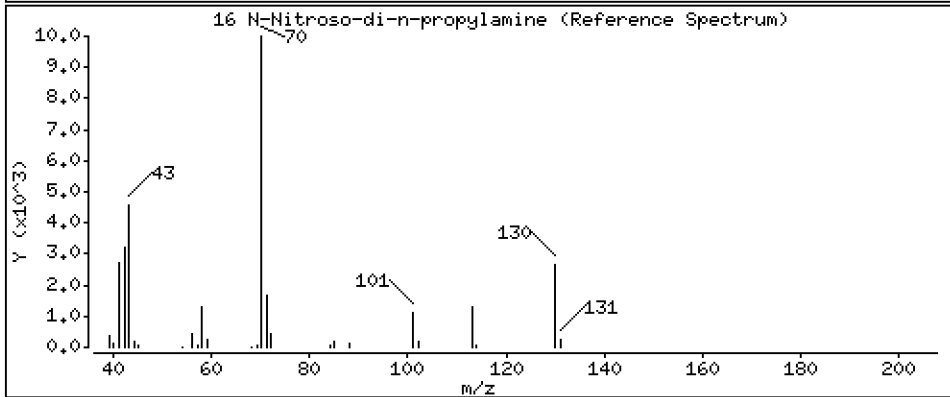
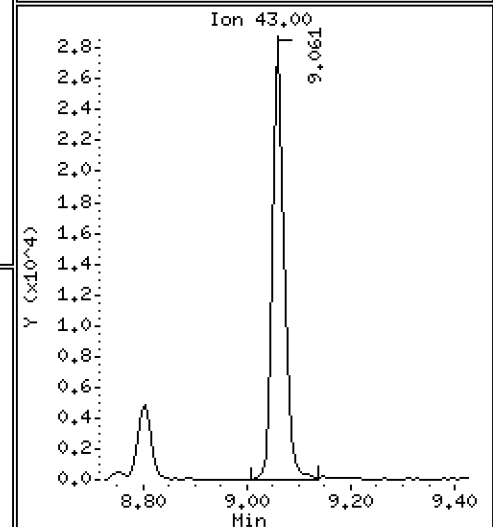
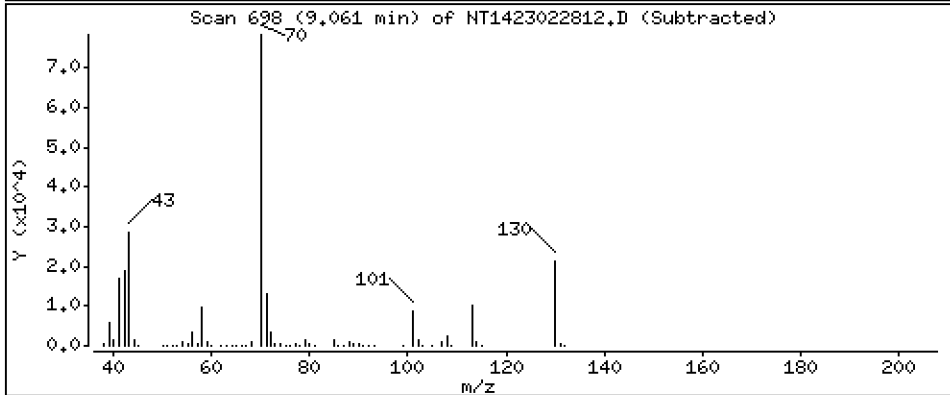
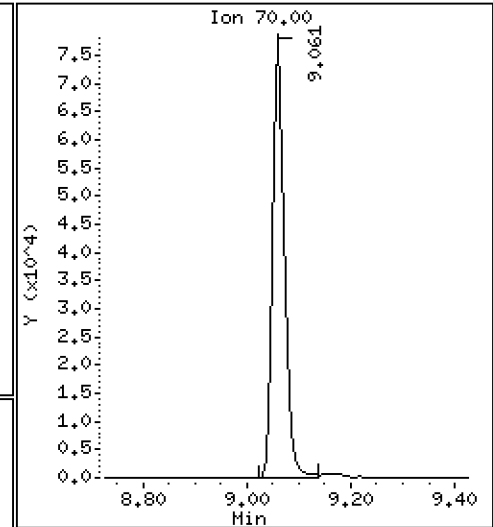
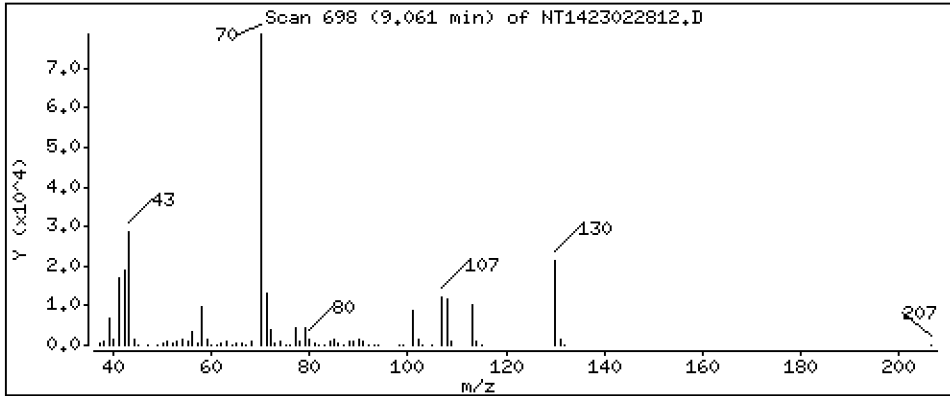
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

16 N-Nitroso-di-n-propylamine

Concentration: 5,138 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

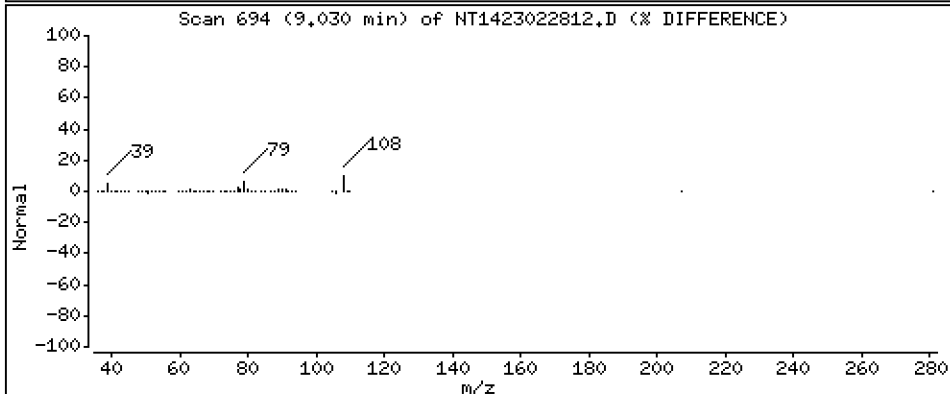
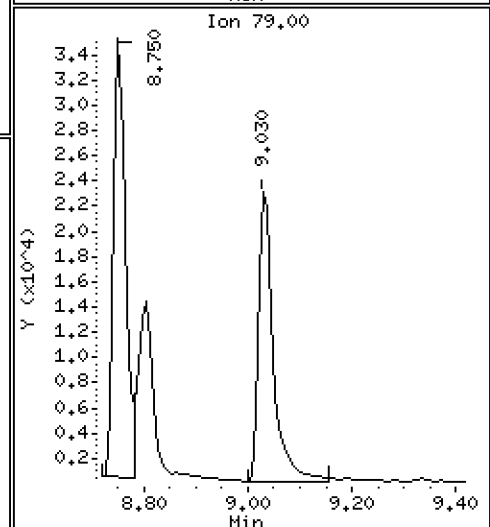
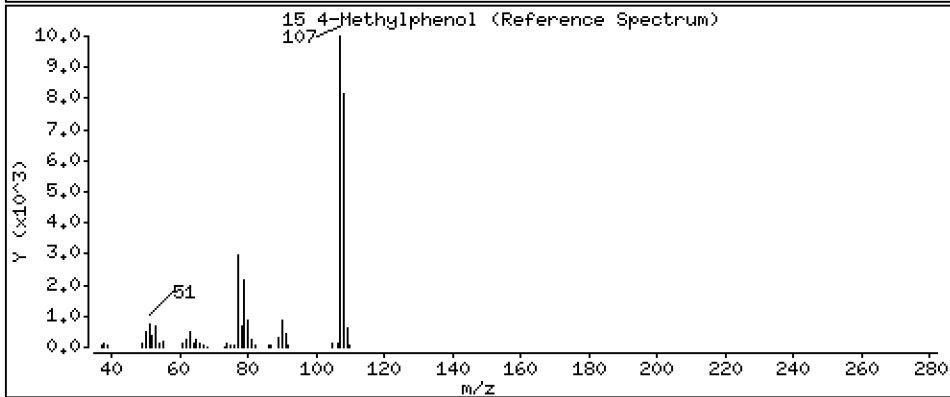
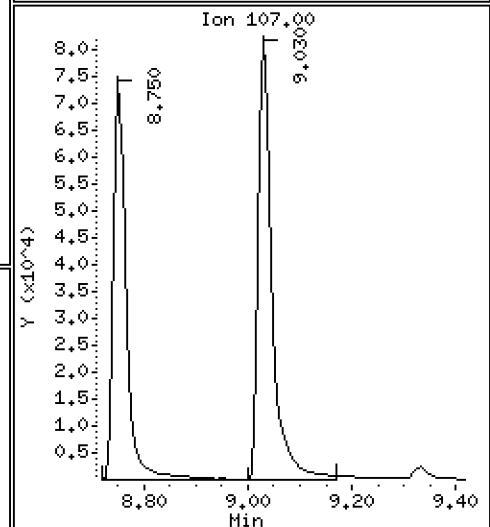
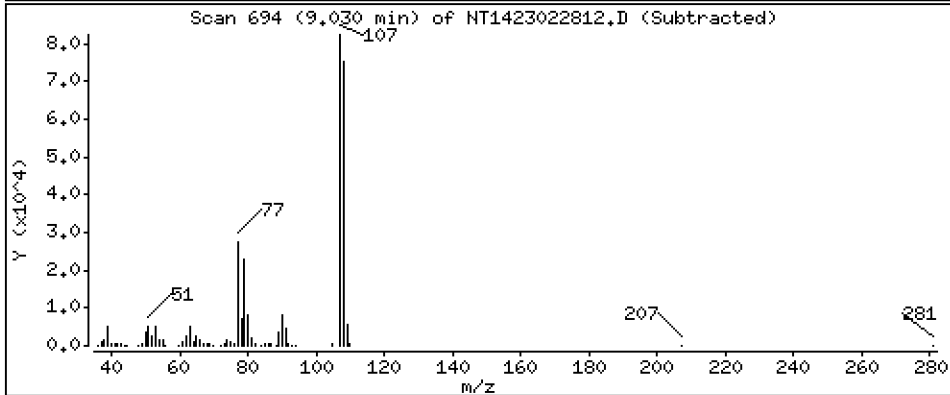
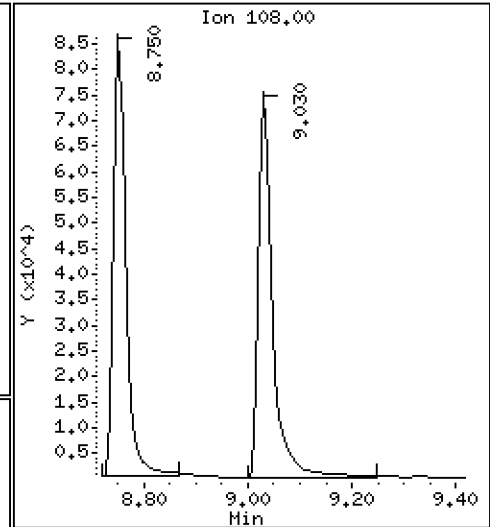
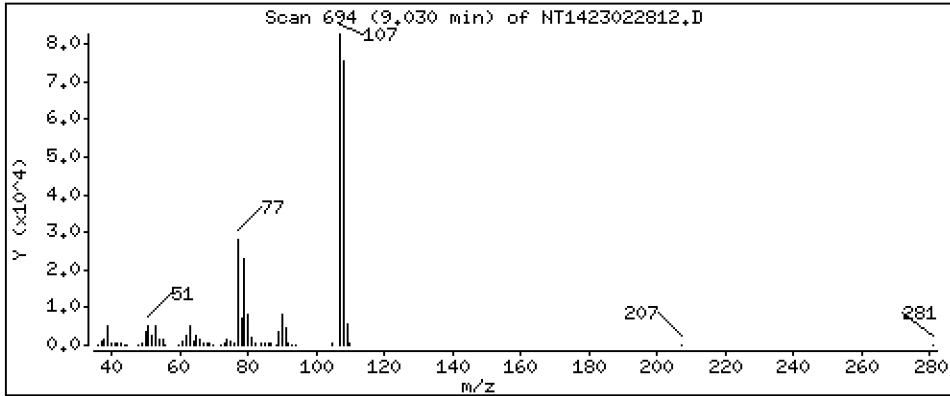
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 4.218 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

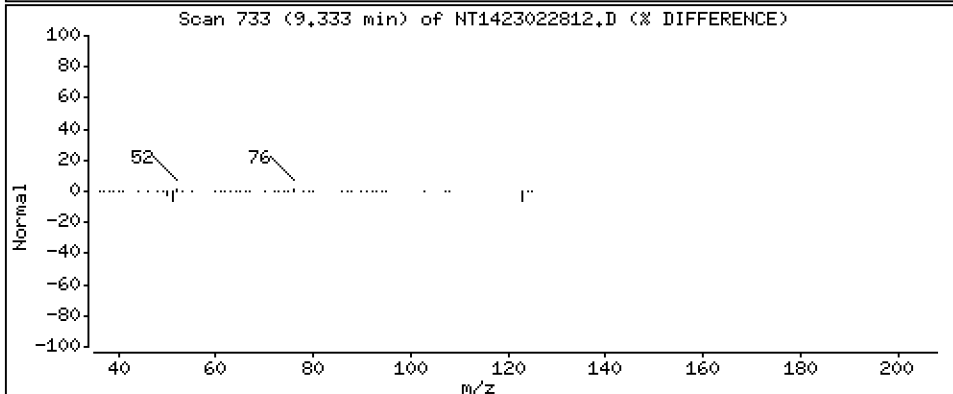
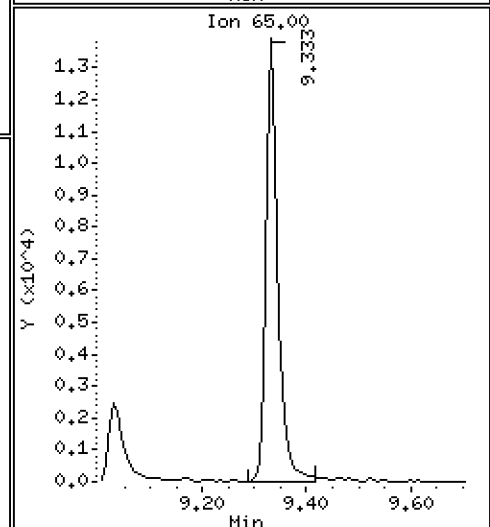
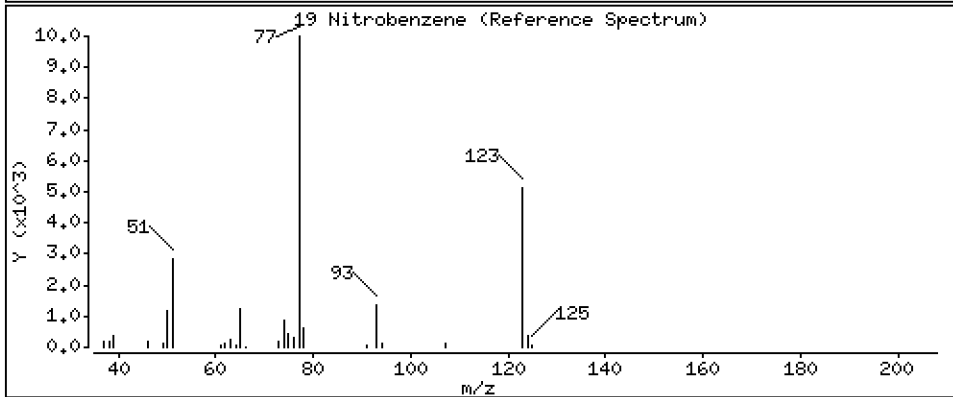
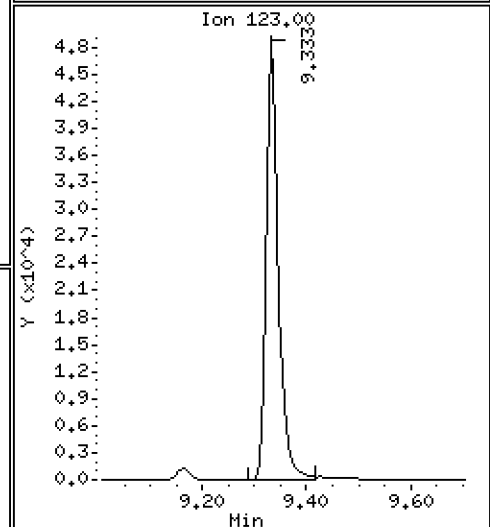
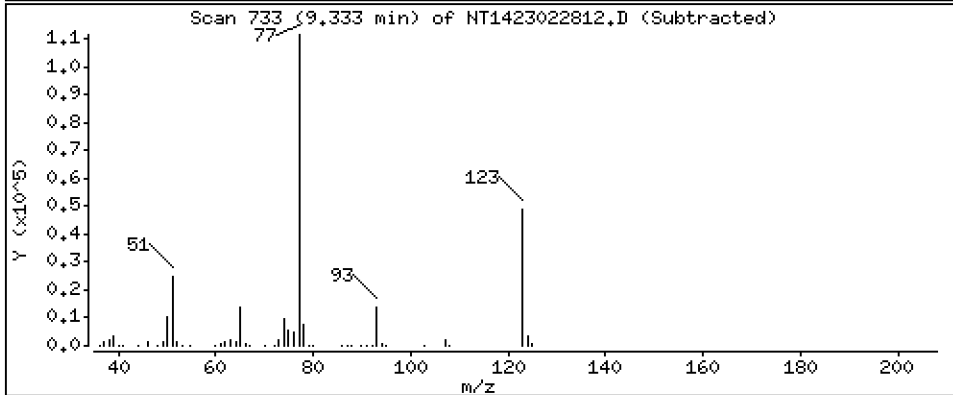
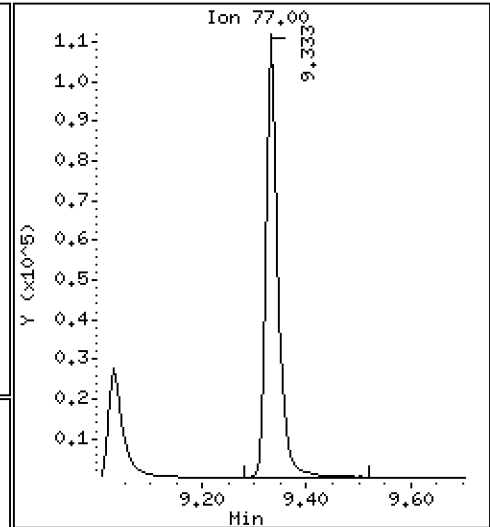
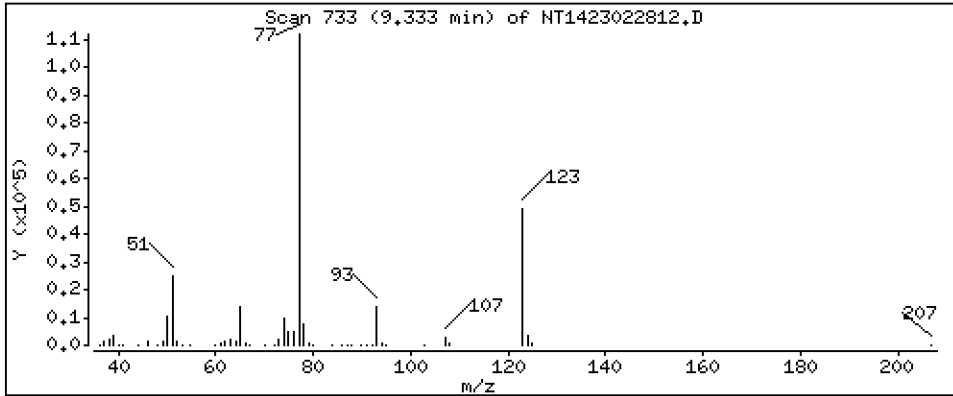
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

Concentration: 5,059 ug/mL

19 Nitrobenzene



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

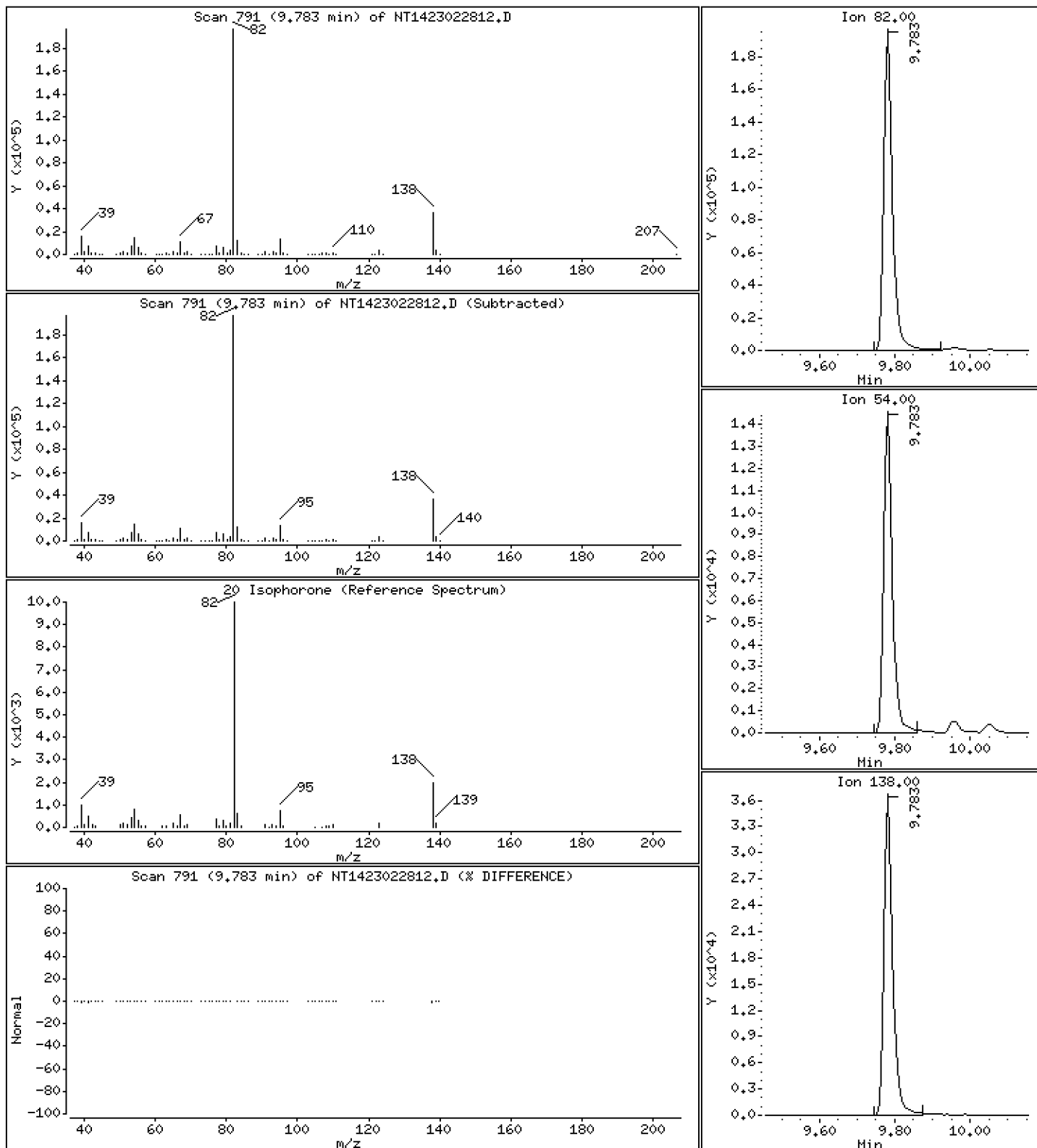
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

20 Isophorone

Concentration: 6.410 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

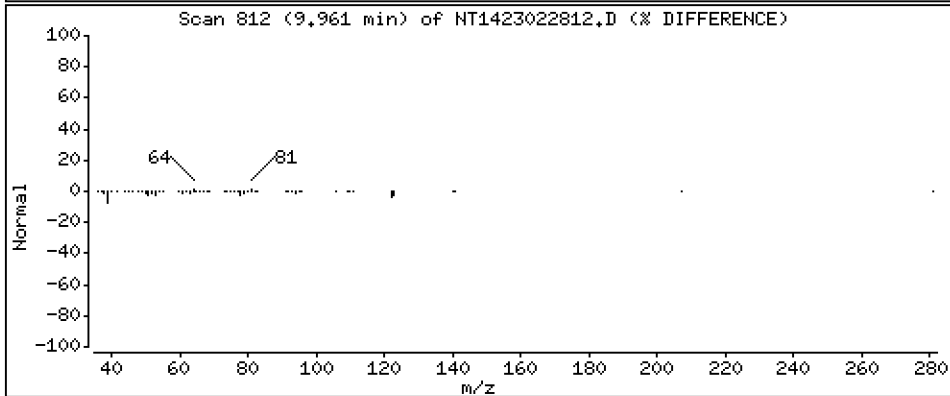
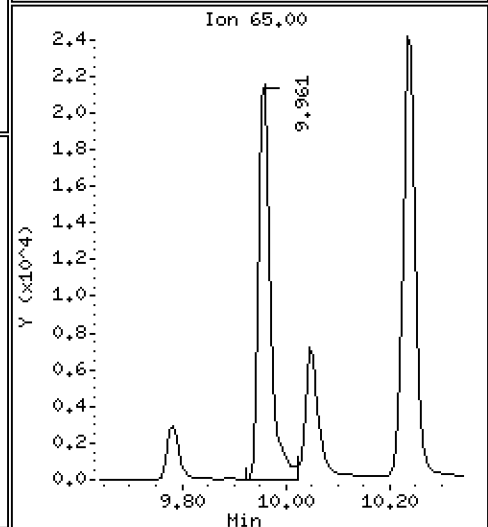
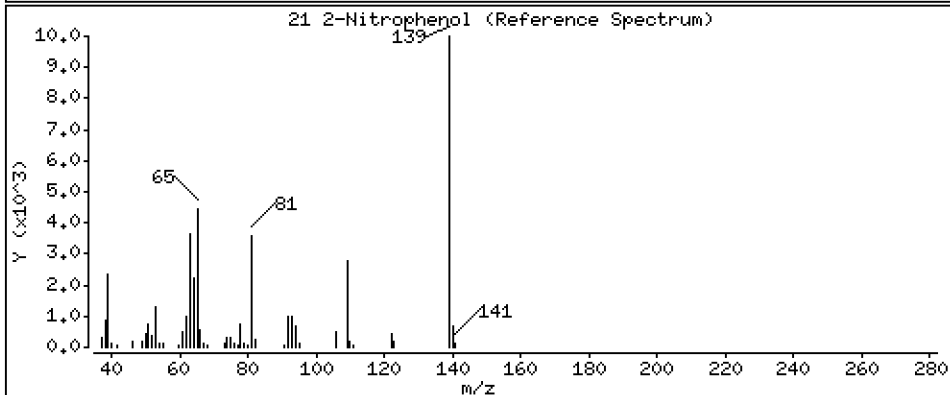
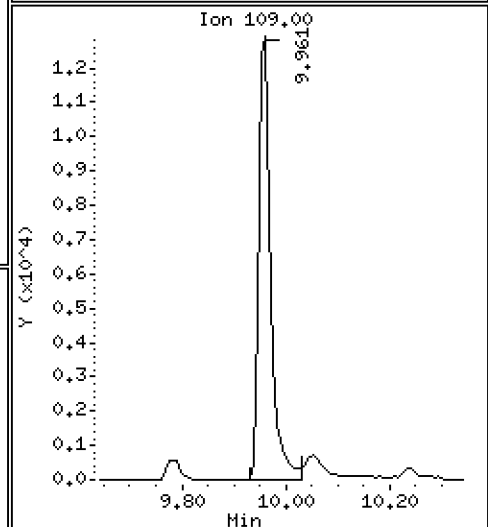
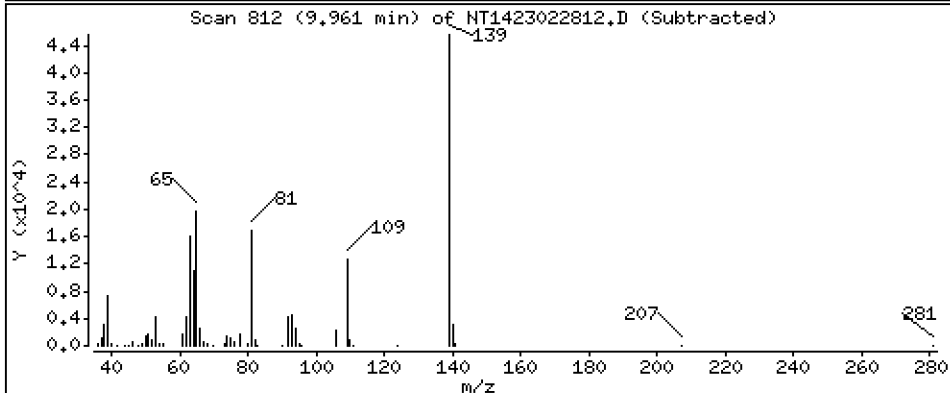
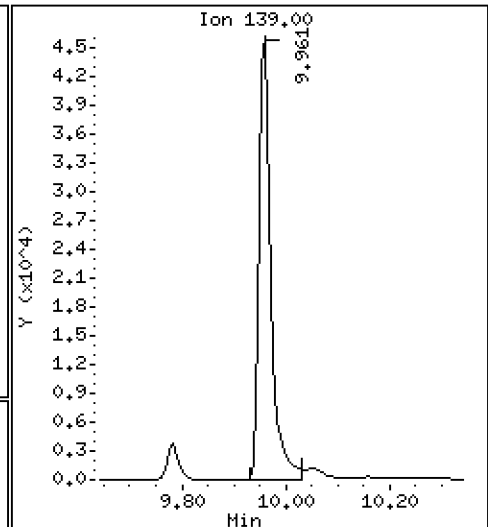
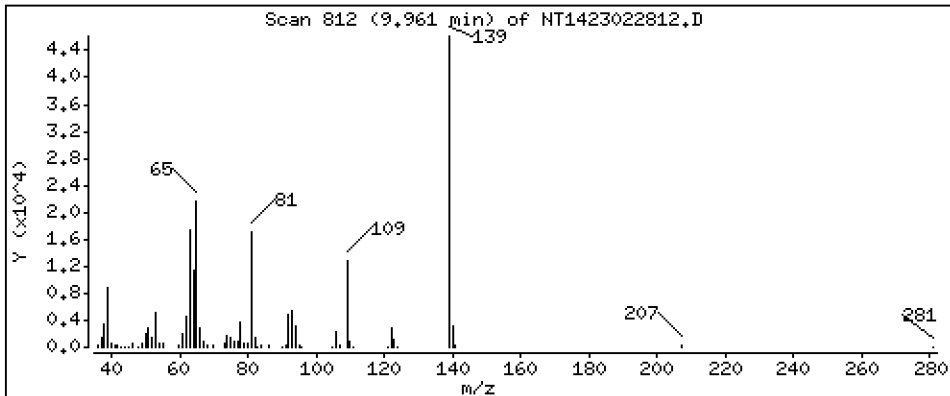
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

21 2-Nitrophenol

Concentration: 4,126 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

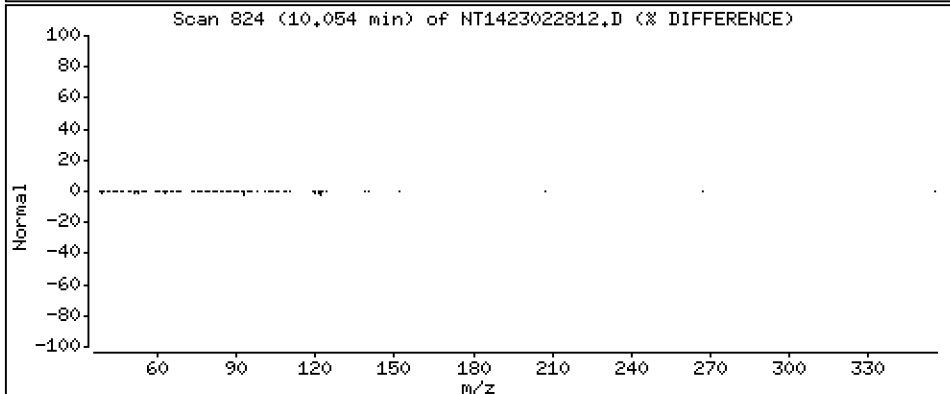
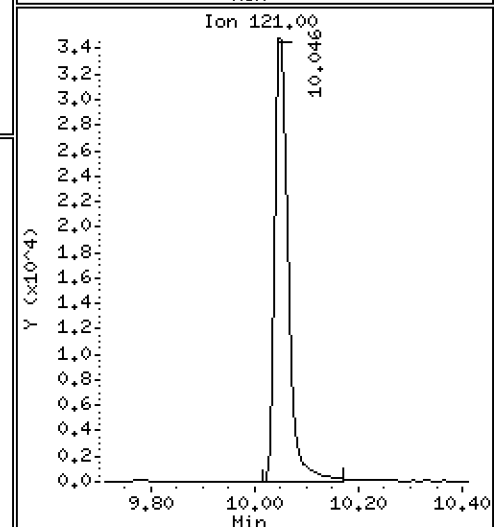
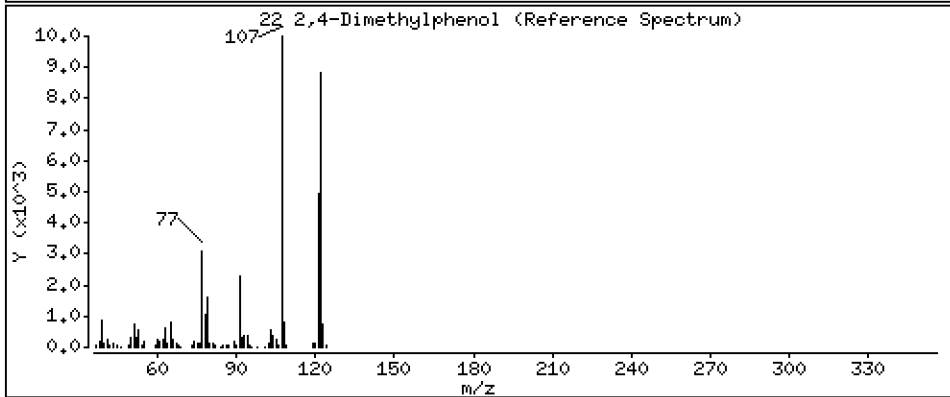
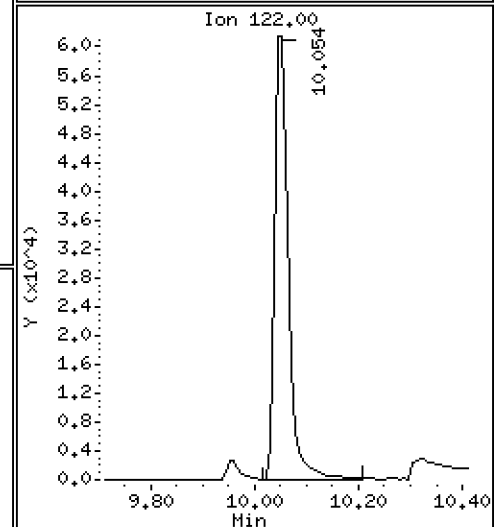
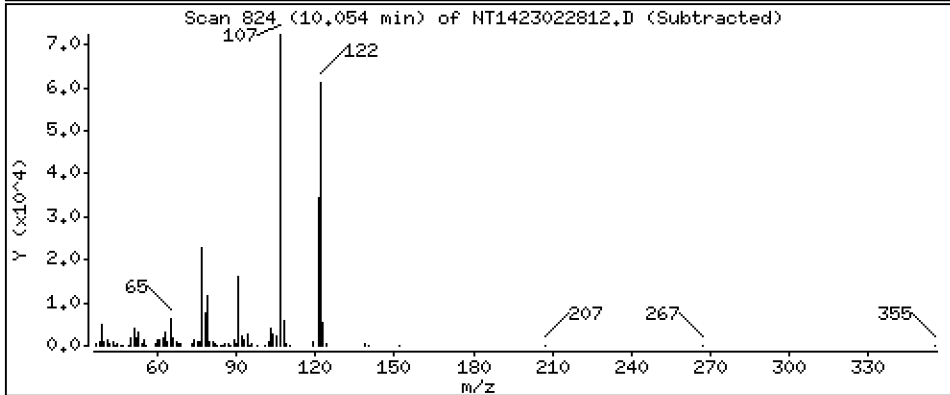
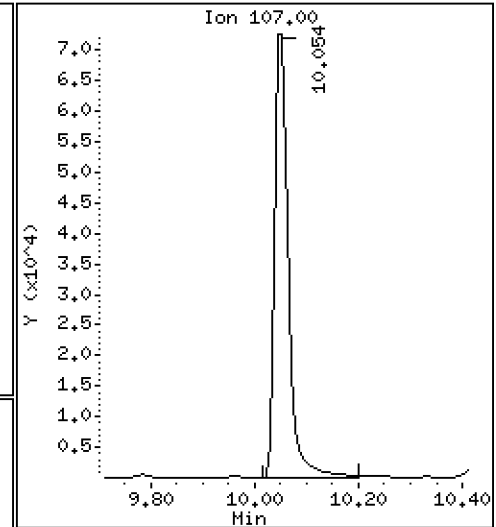
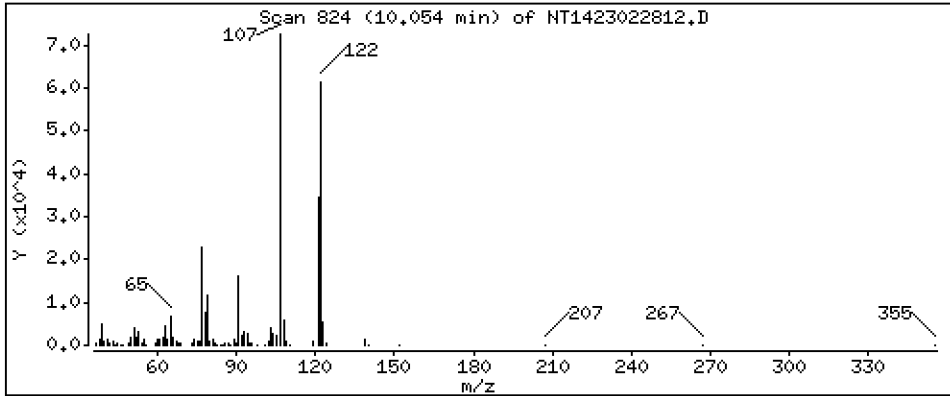
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 3,890 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

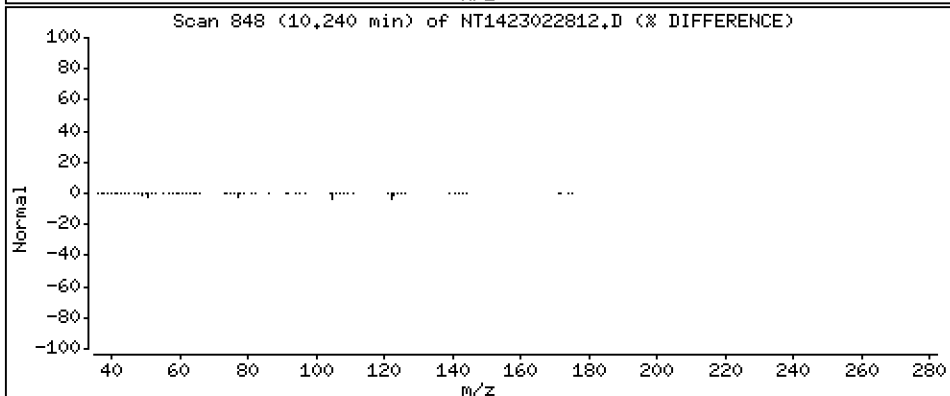
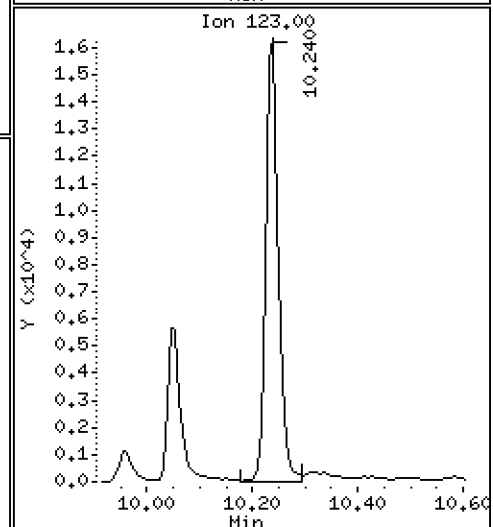
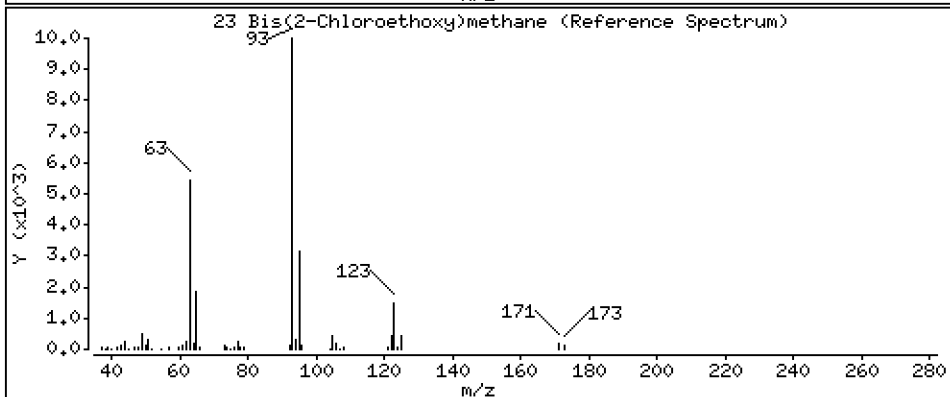
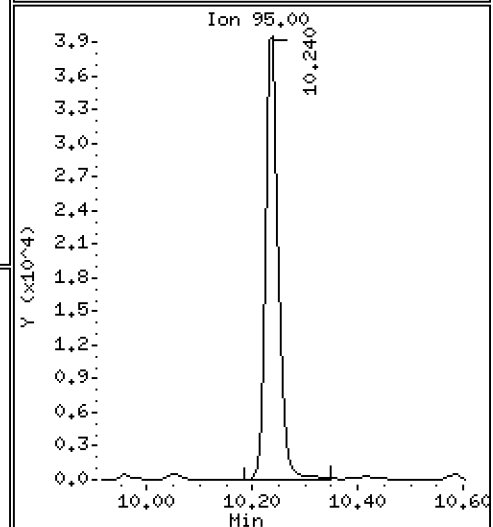
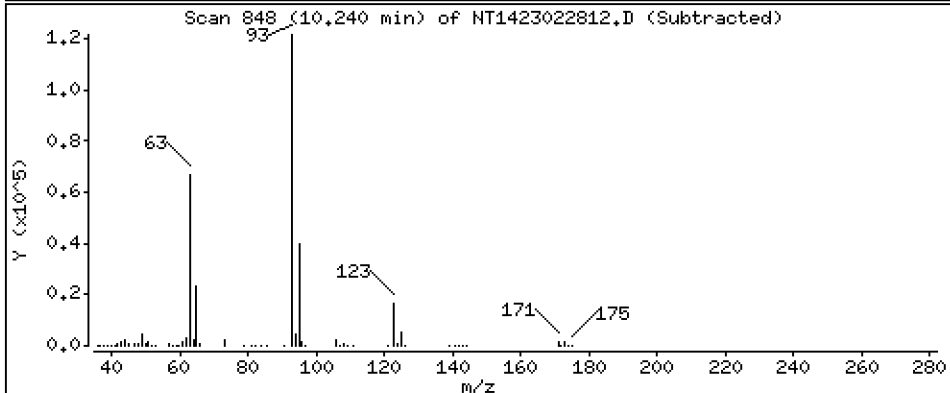
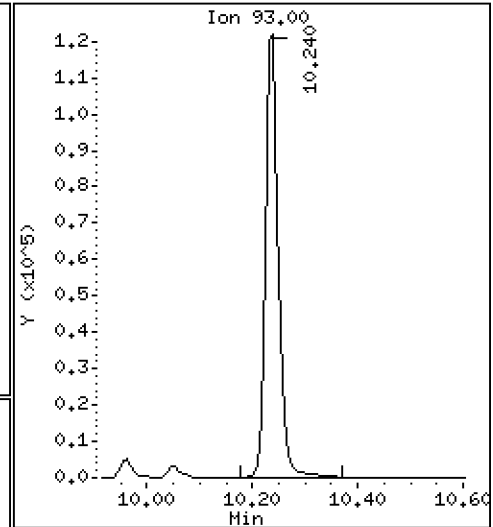
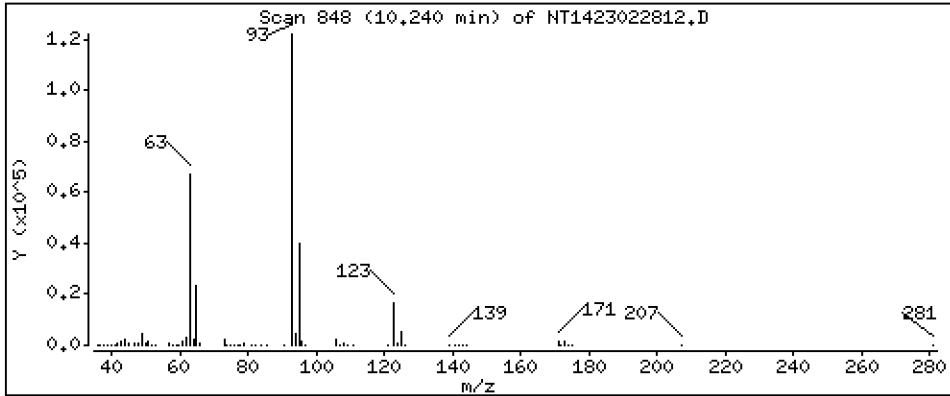
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

23 Bis(2-Chloroethoxy)methane

Concentration: 5.764 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

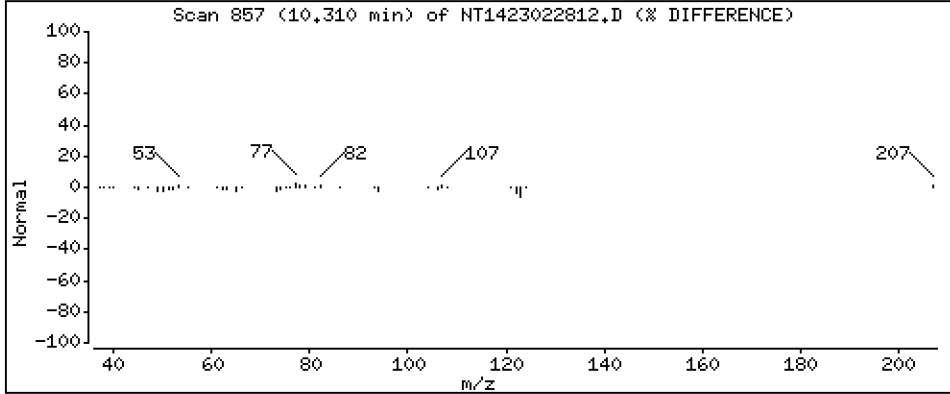
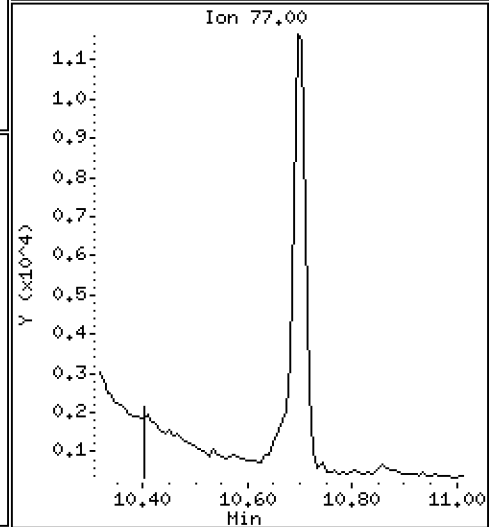
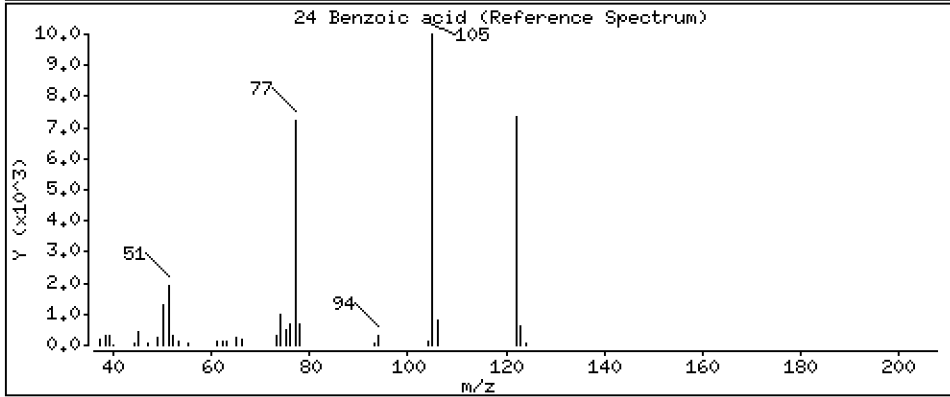
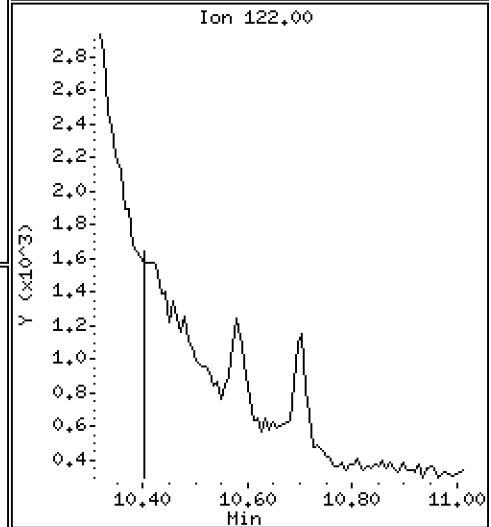
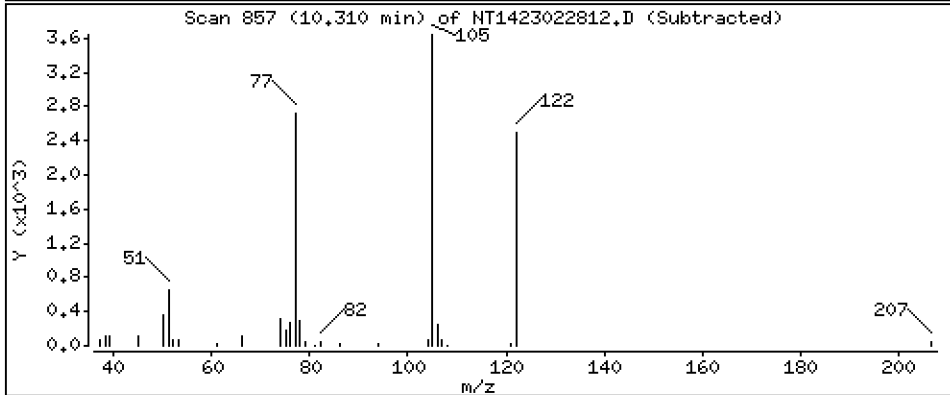
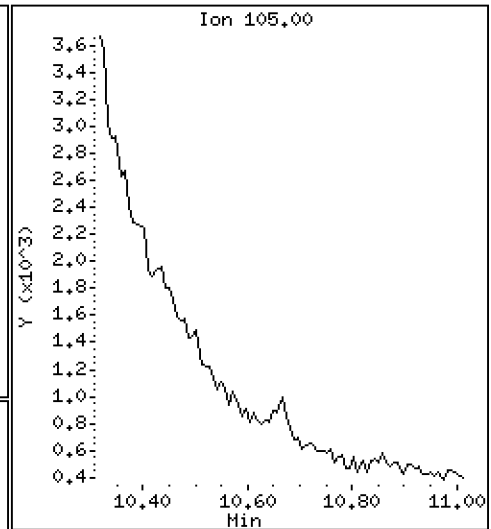
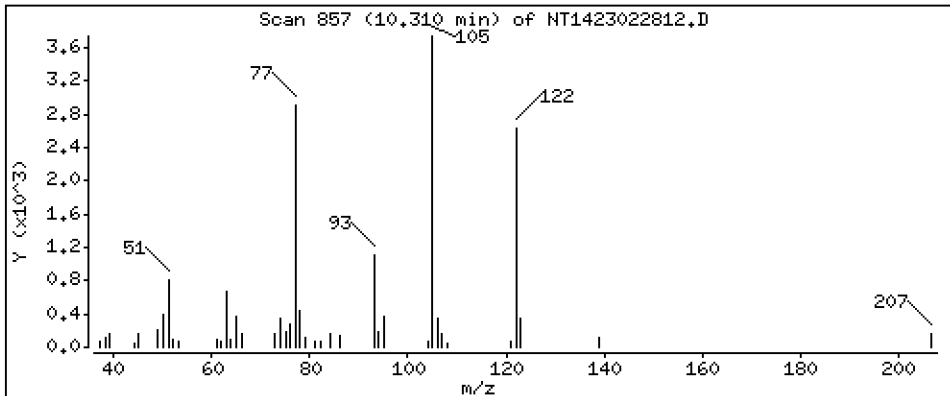
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

24 Benzoic acid

Concentration: 4.071 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

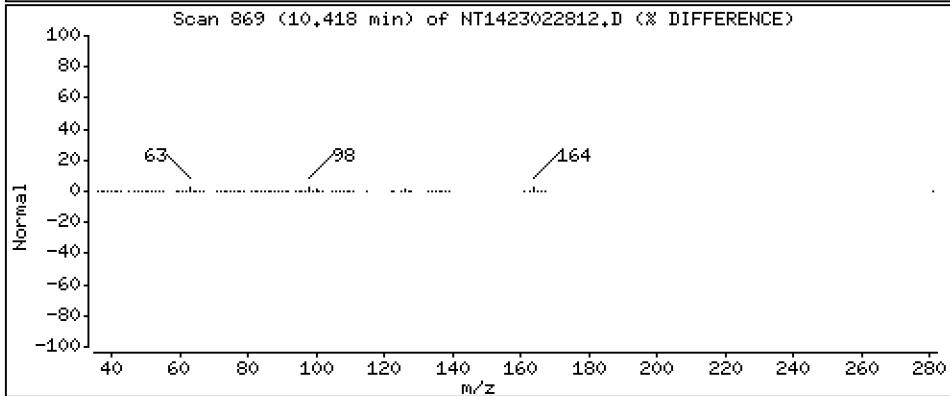
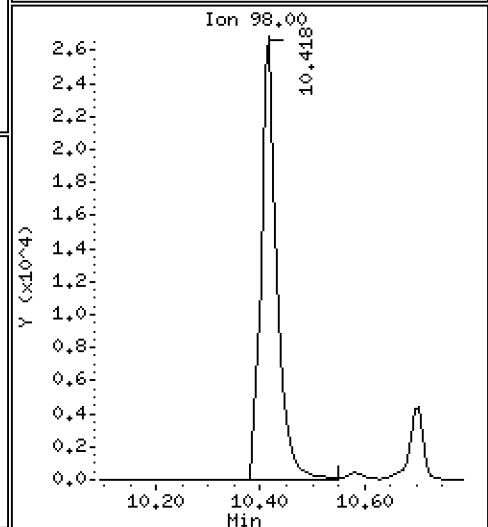
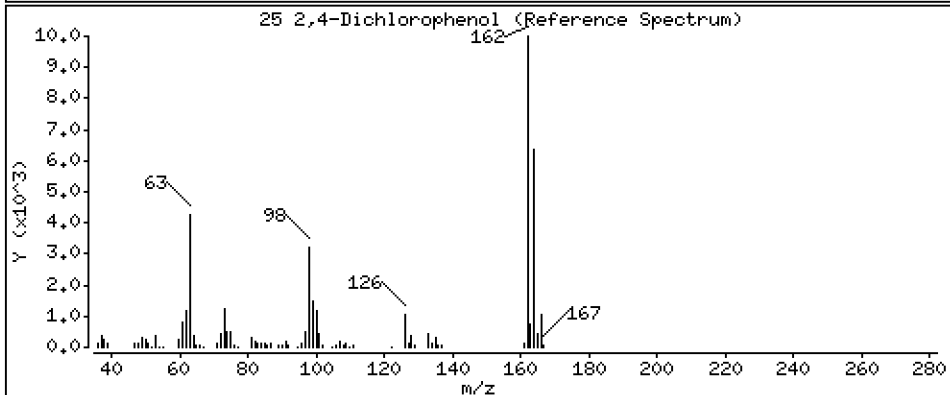
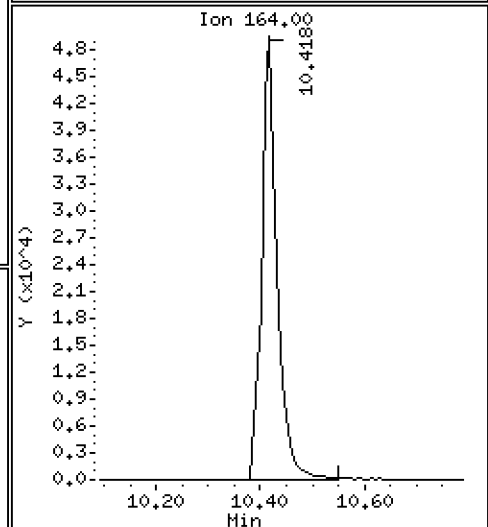
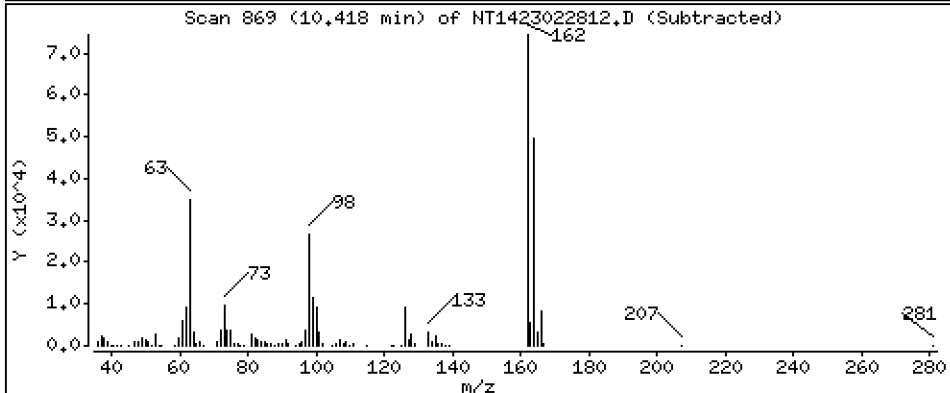
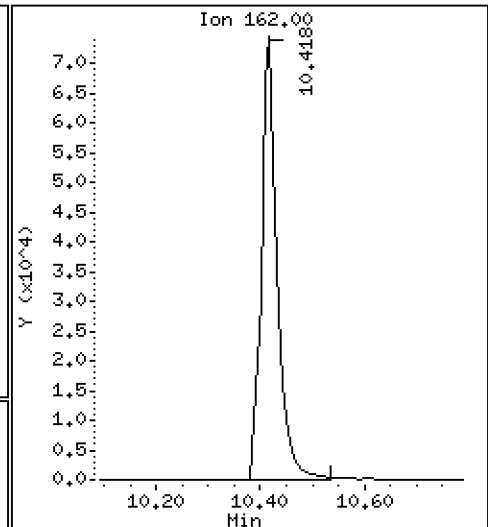
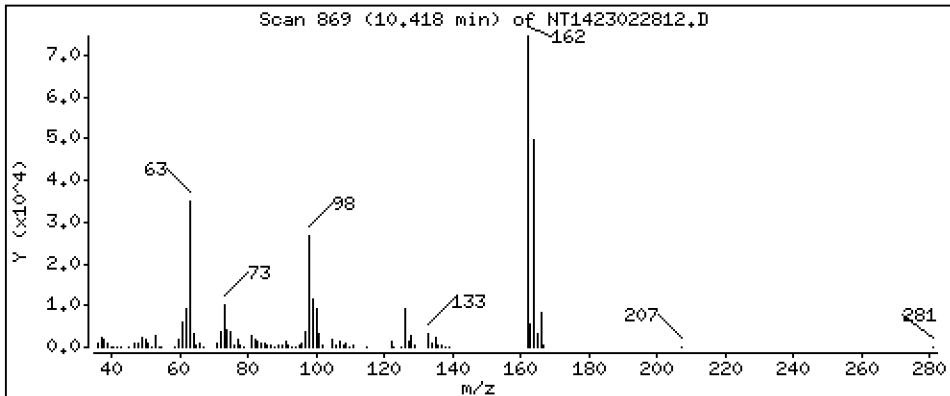
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 4,783 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

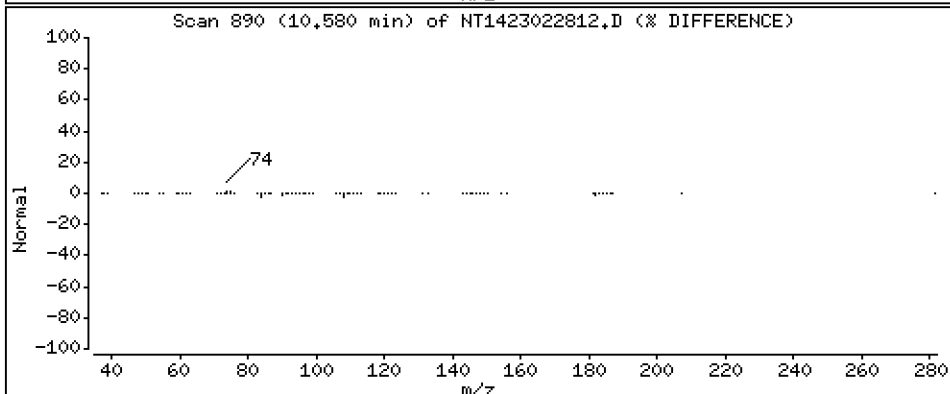
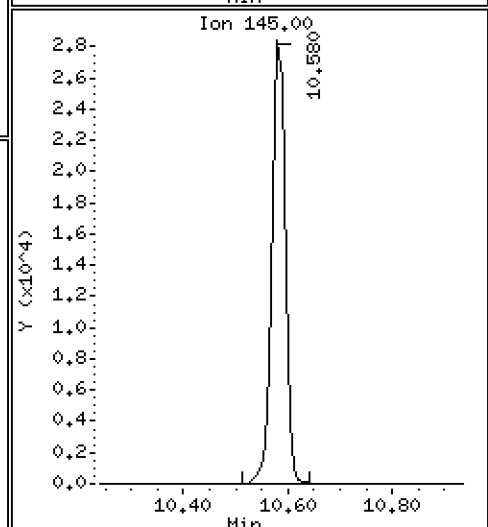
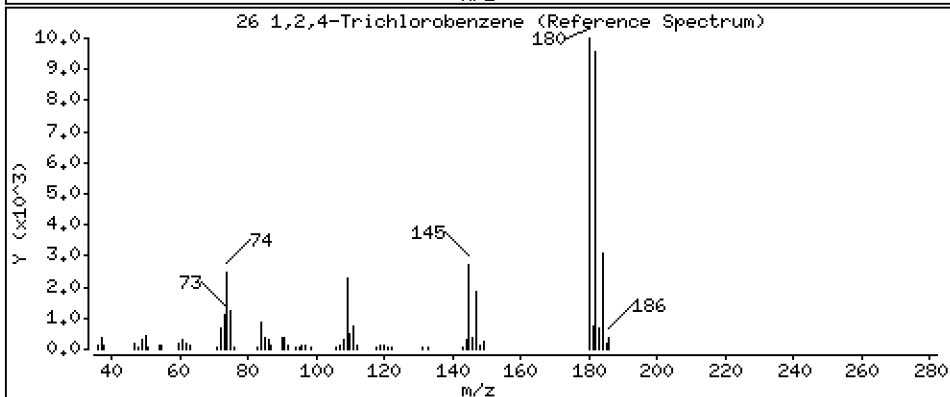
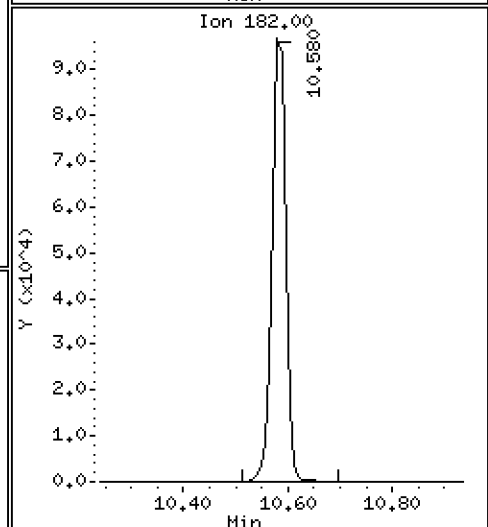
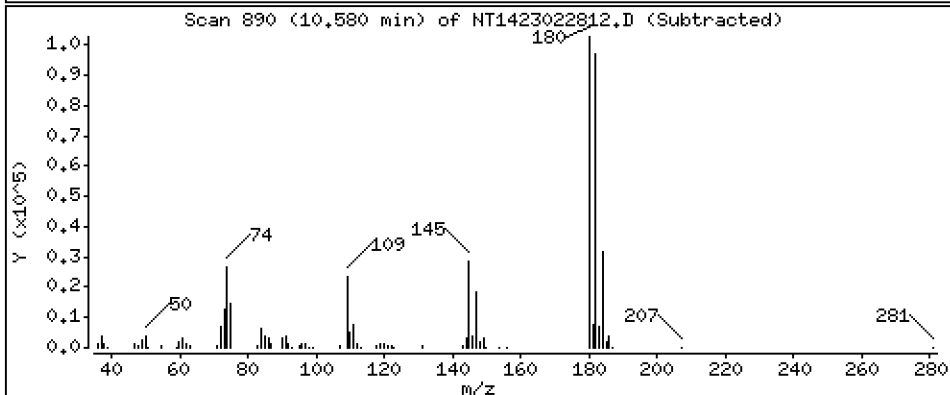
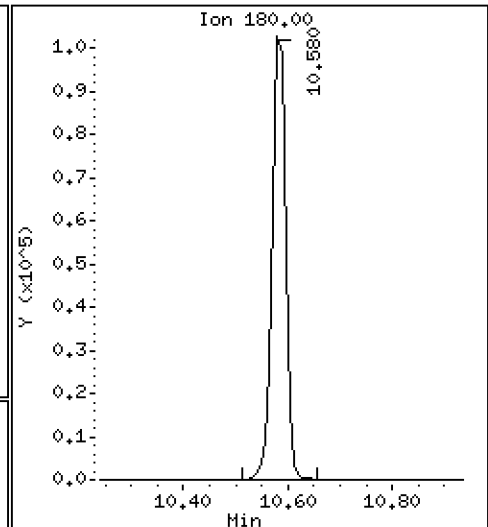
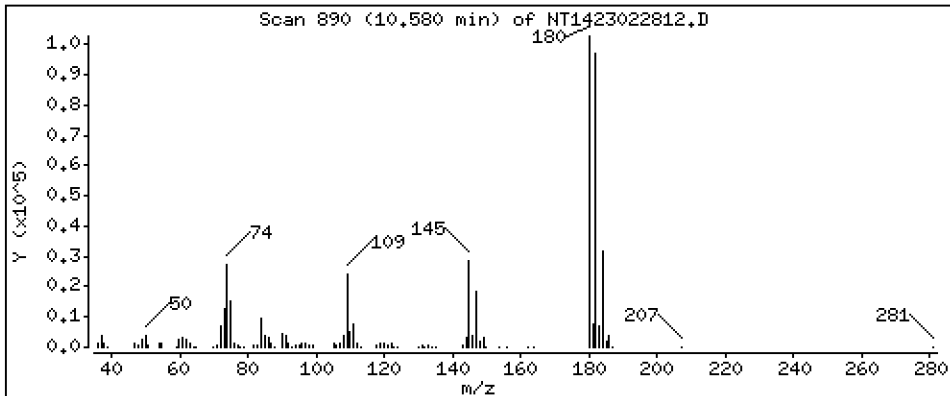
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 4,789 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

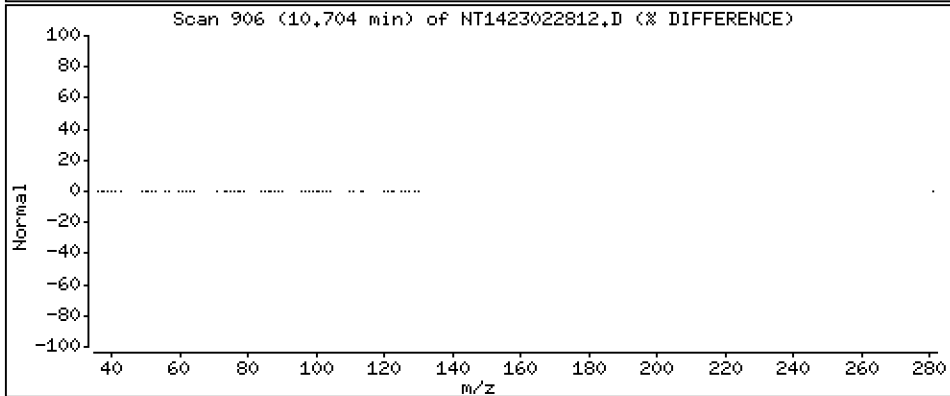
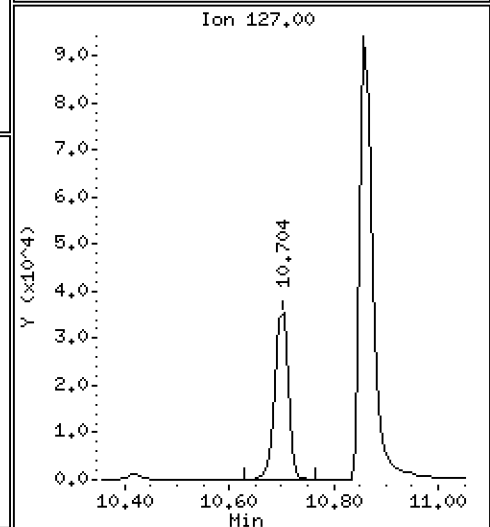
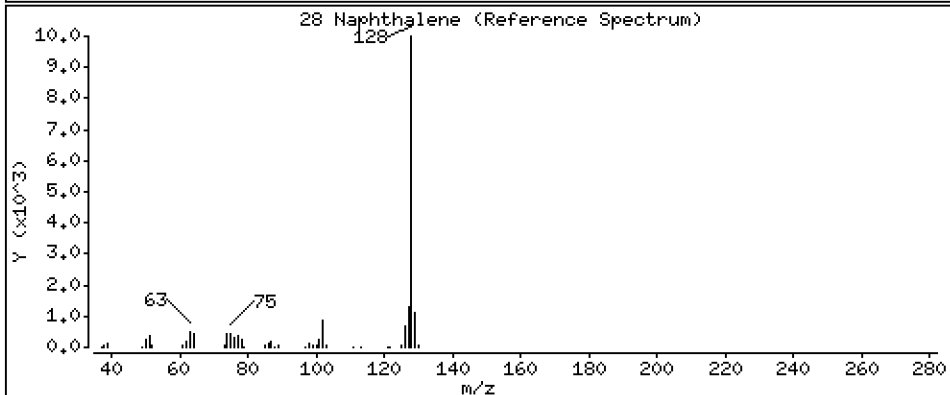
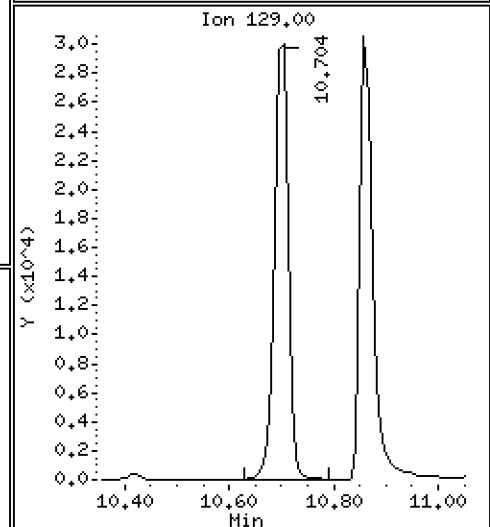
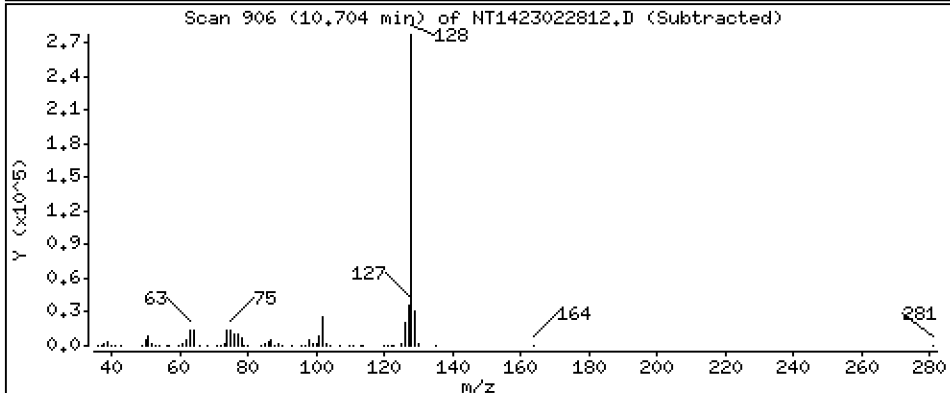
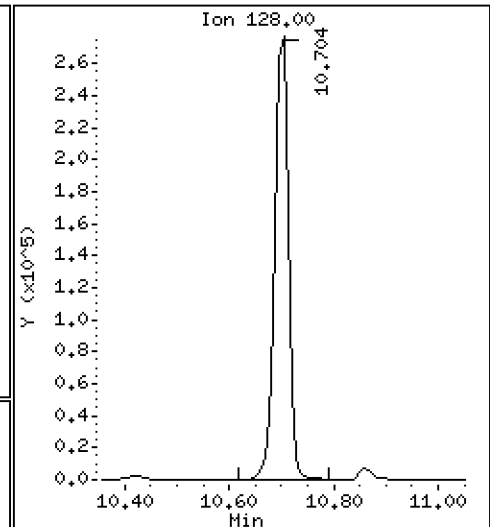
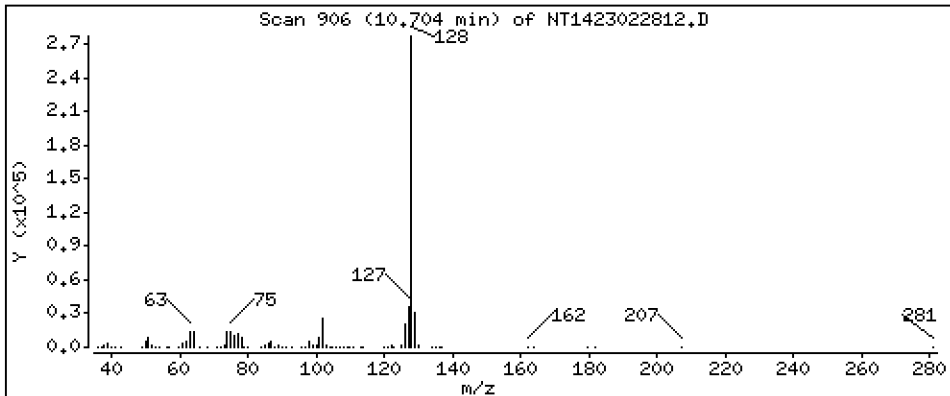
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 4,766 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

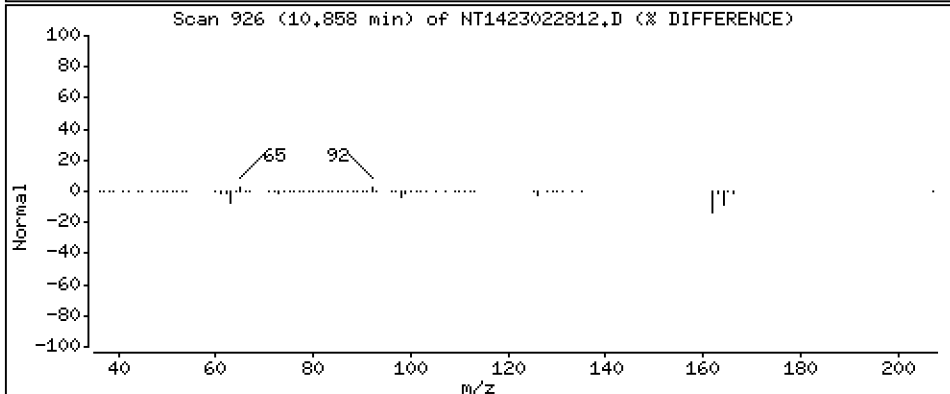
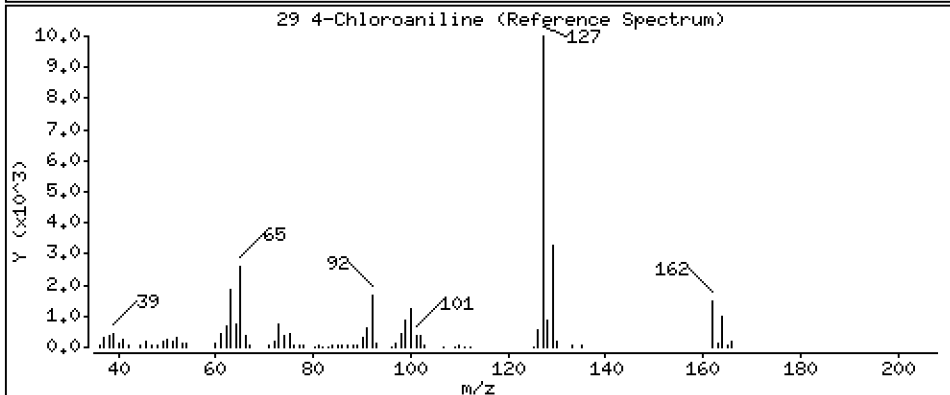
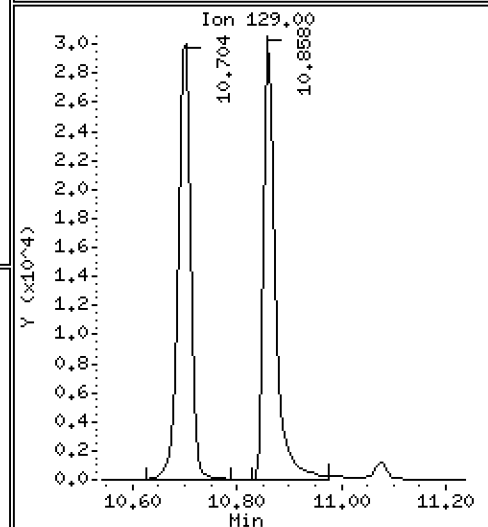
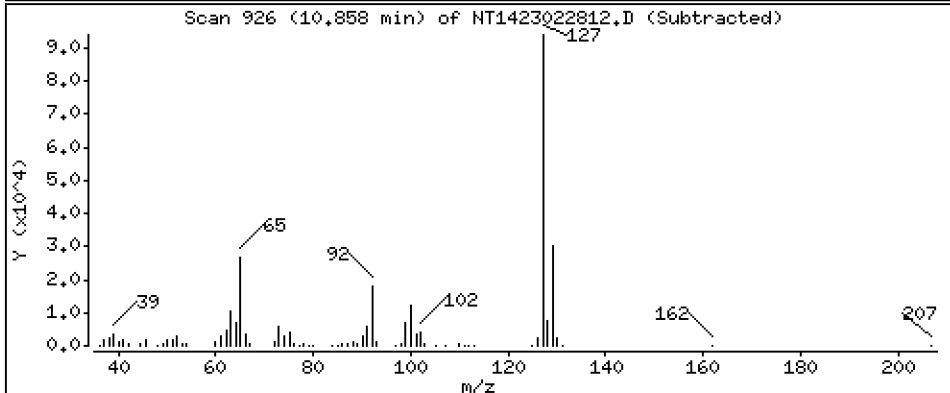
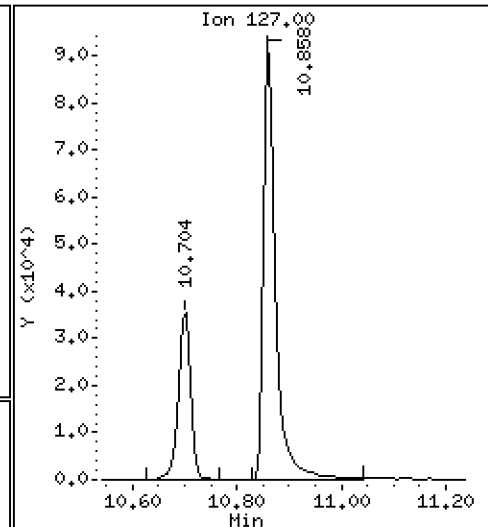
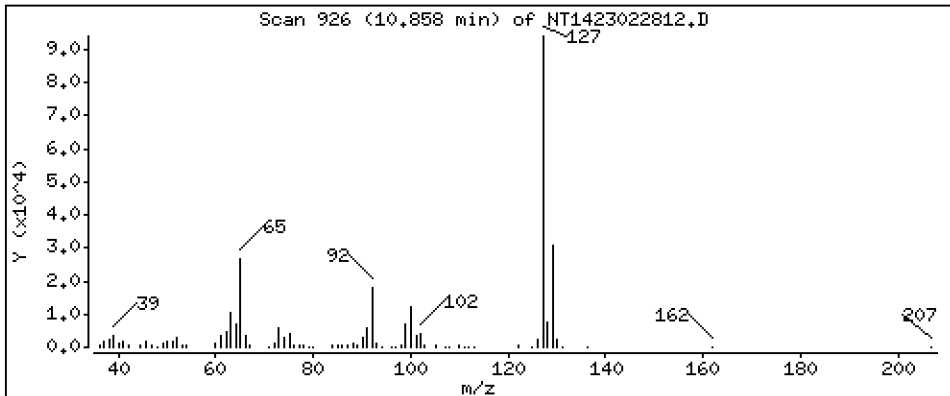
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

29 4-Chloroaniline

Concentration: 3,895 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

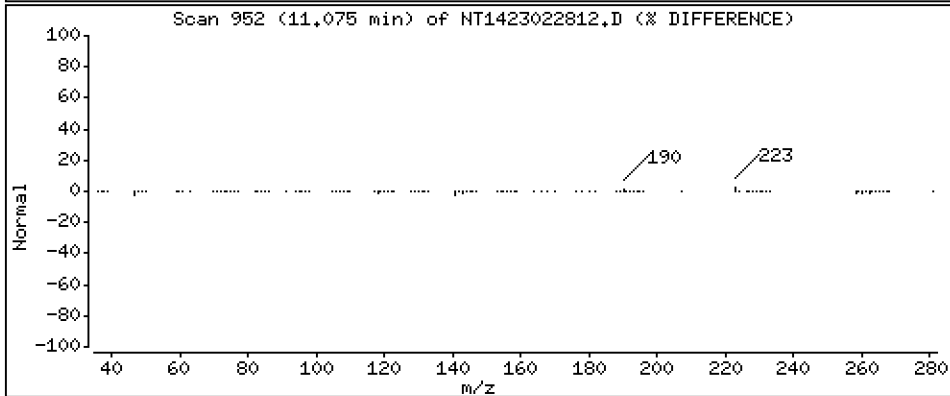
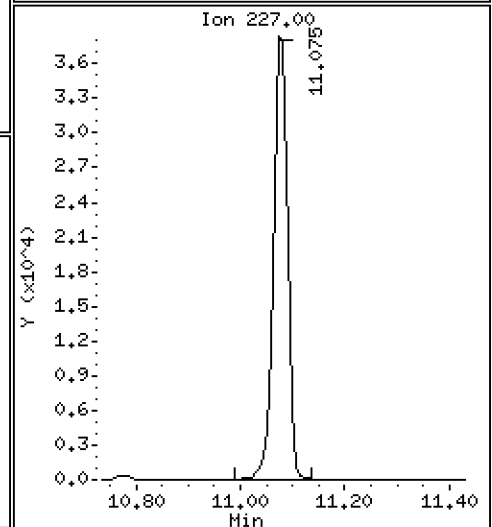
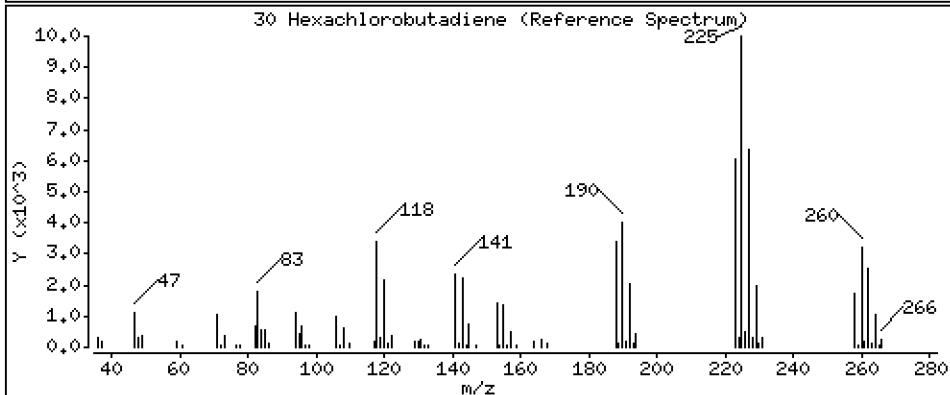
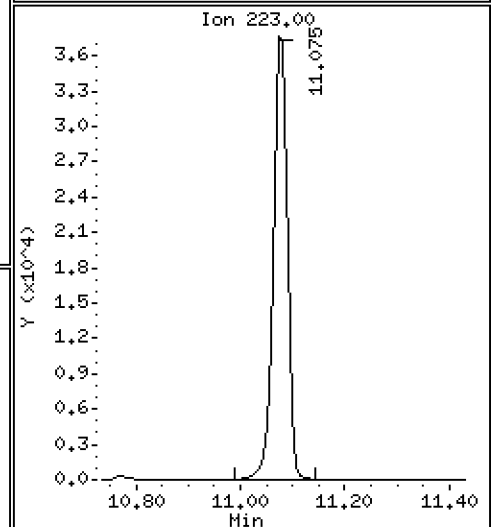
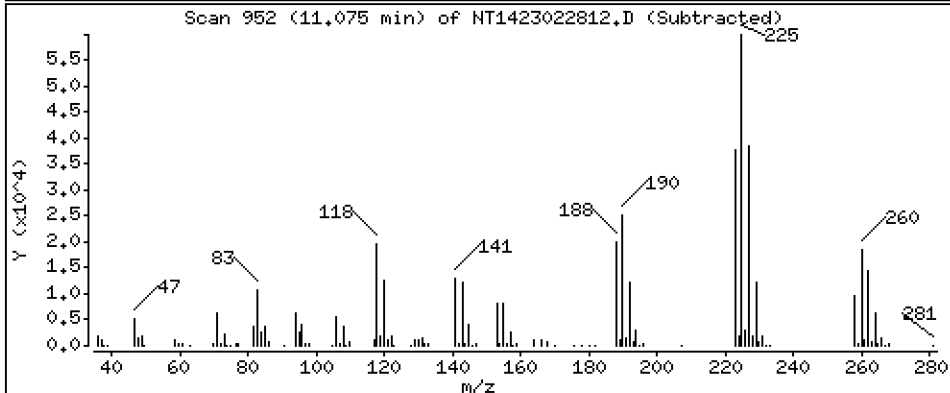
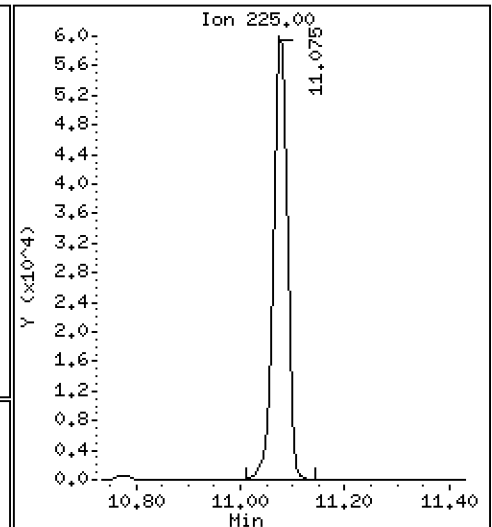
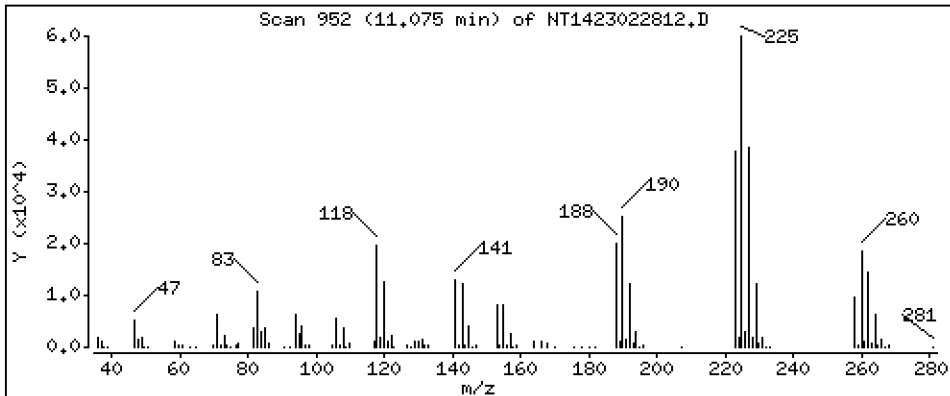
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 4,803 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

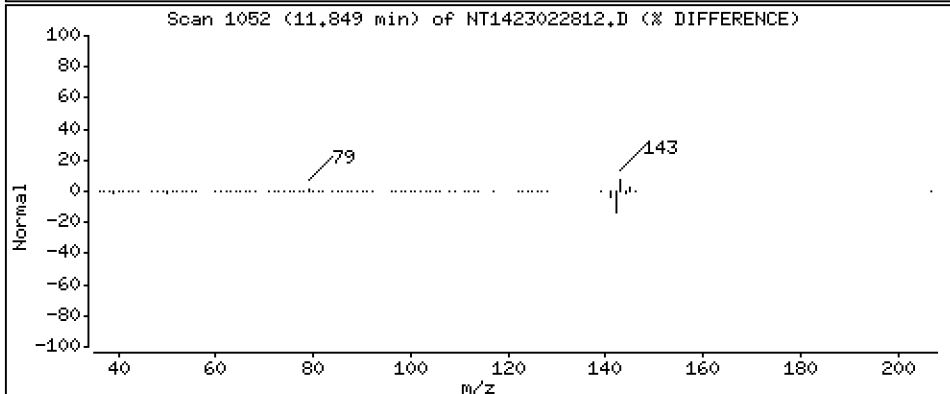
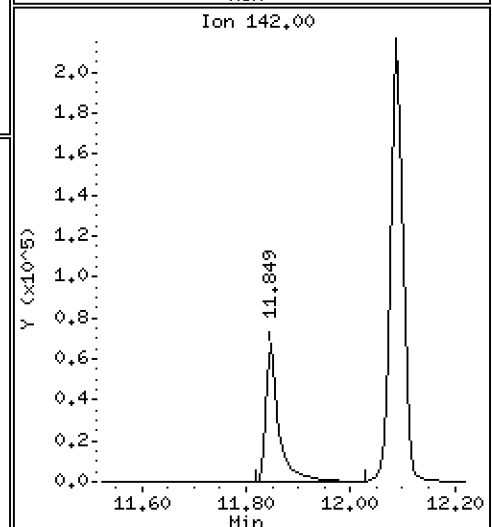
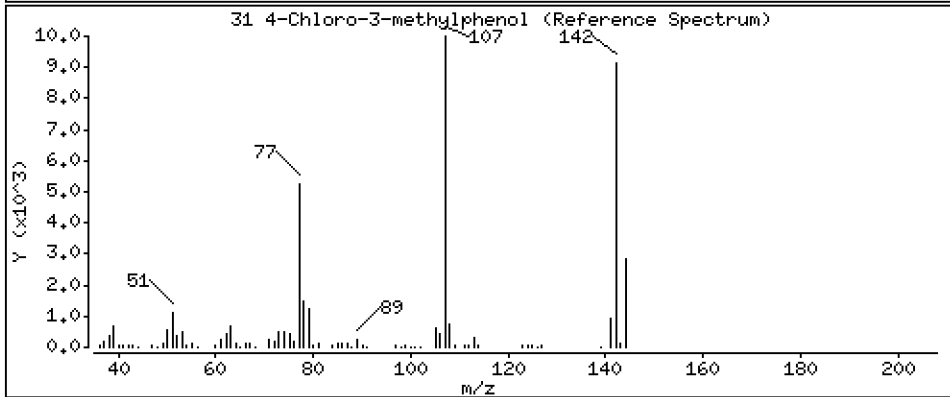
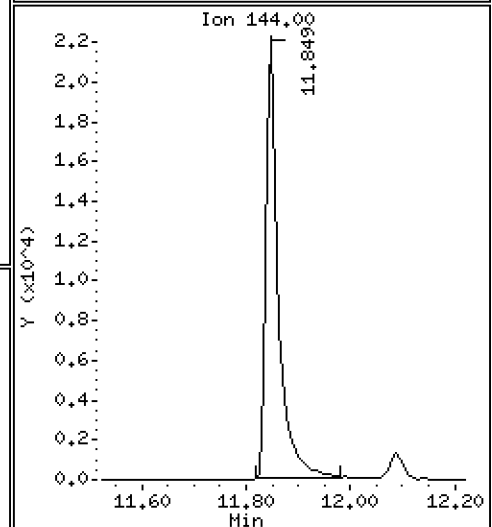
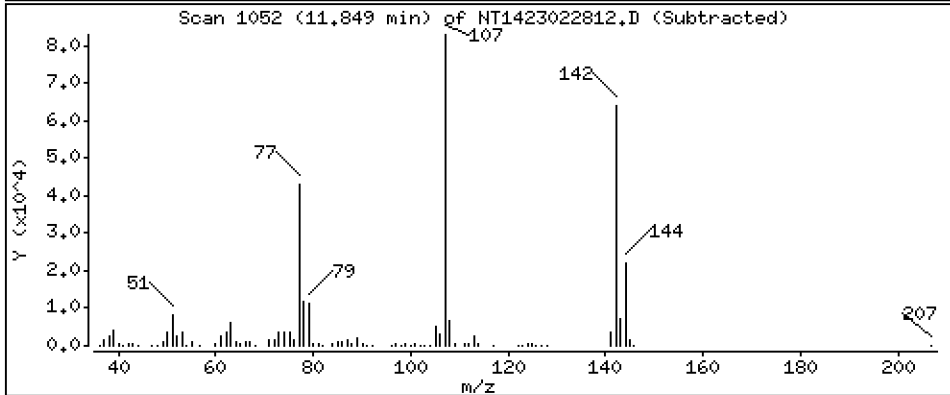
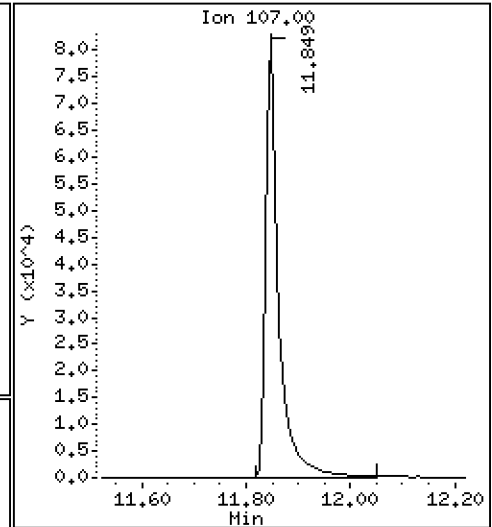
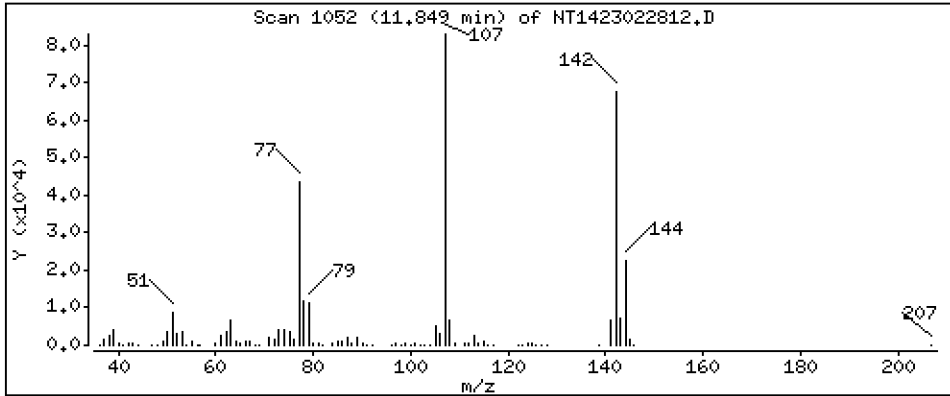
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

31 4-Chloro-3-methylphenol

Concentration: 4.860 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

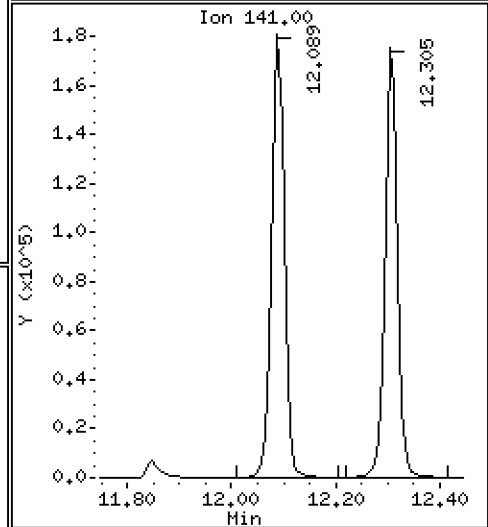
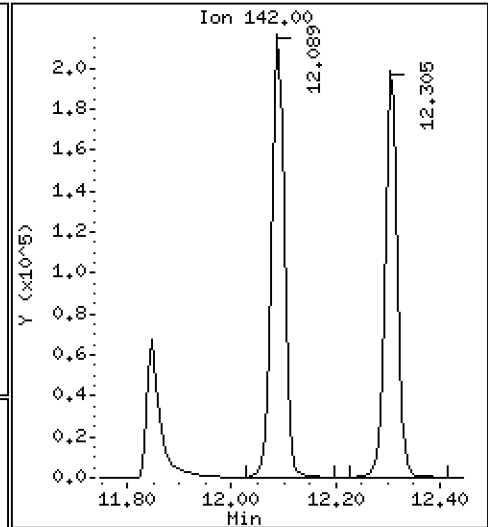
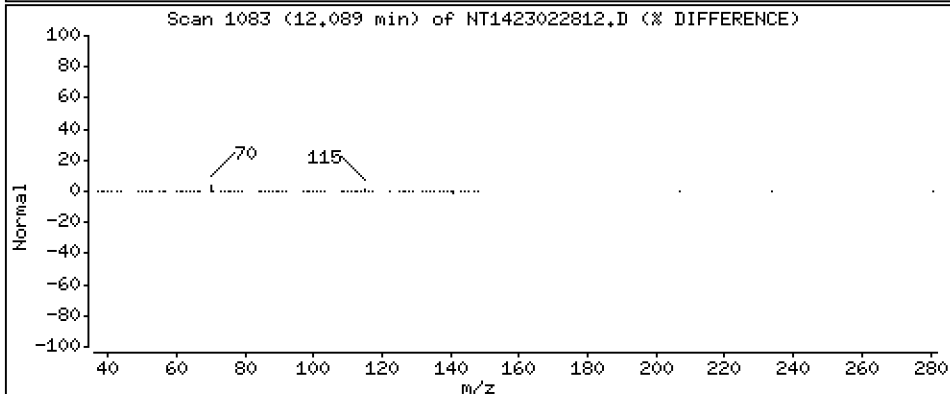
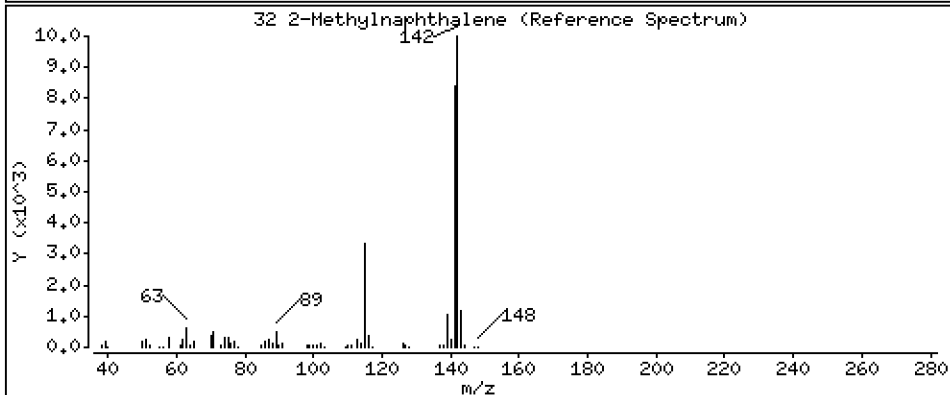
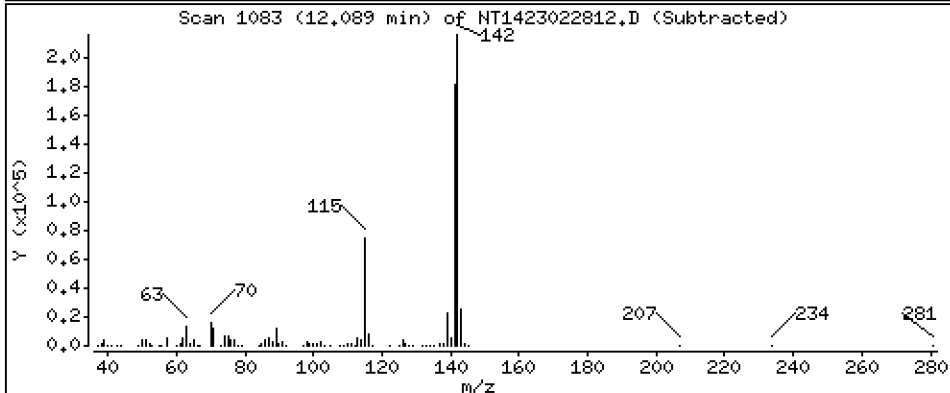
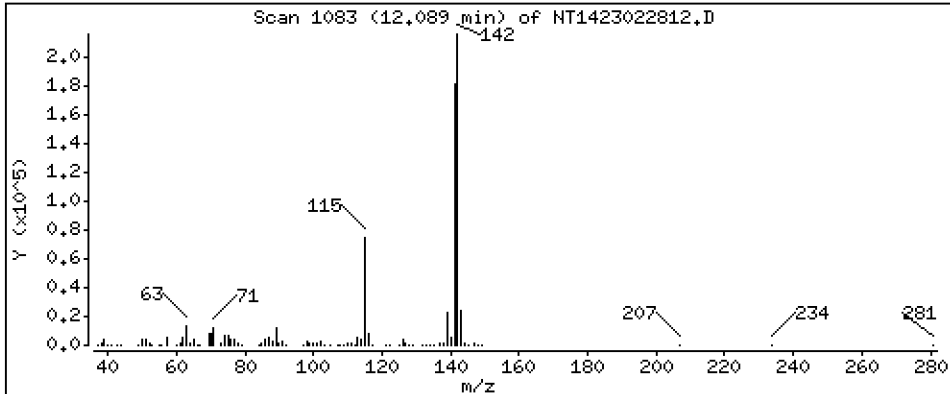
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 4,625 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

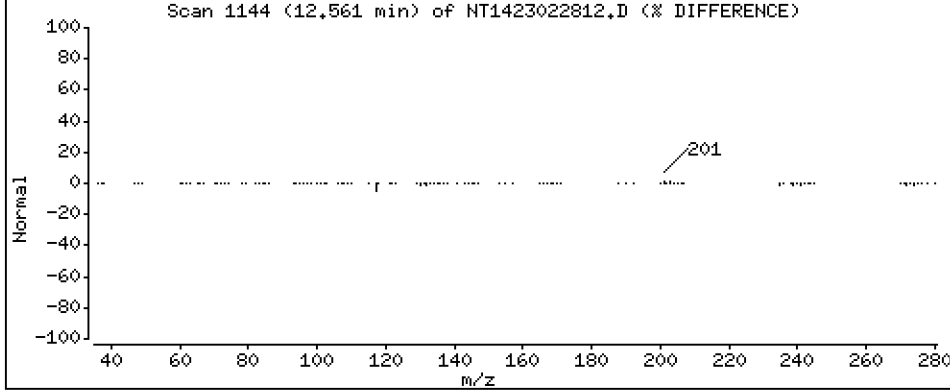
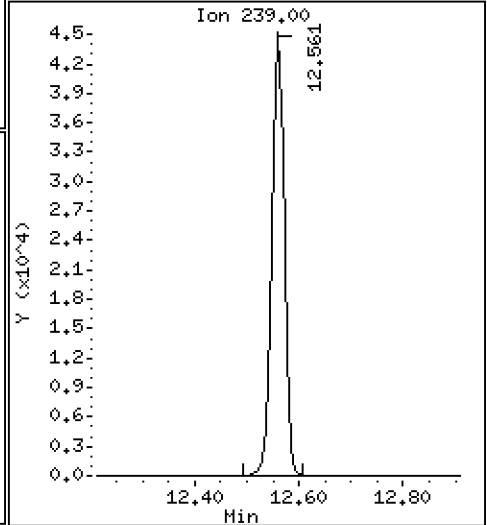
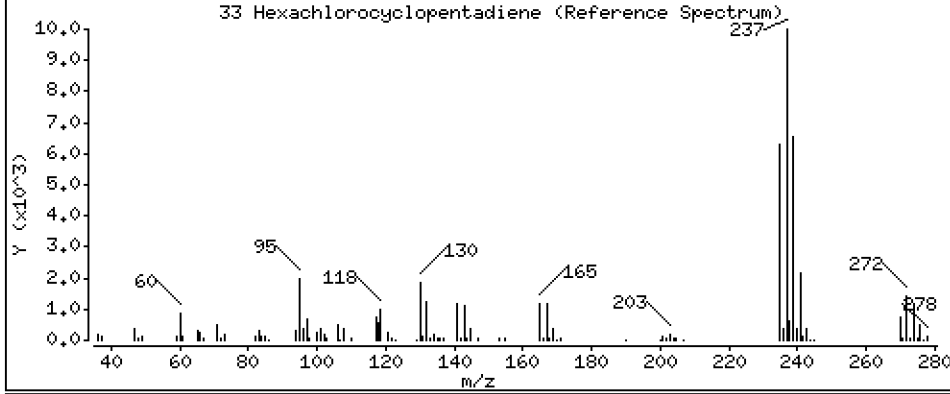
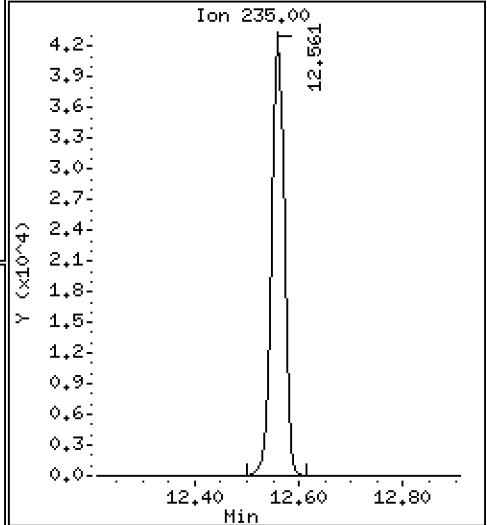
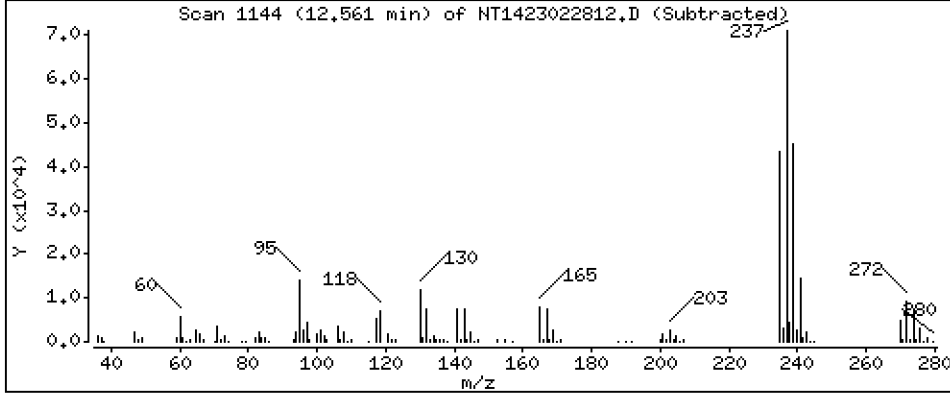
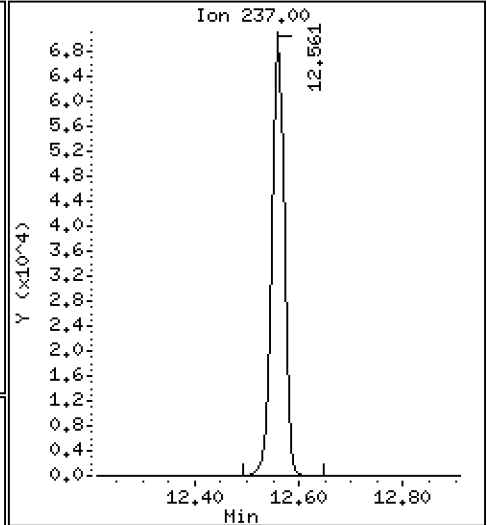
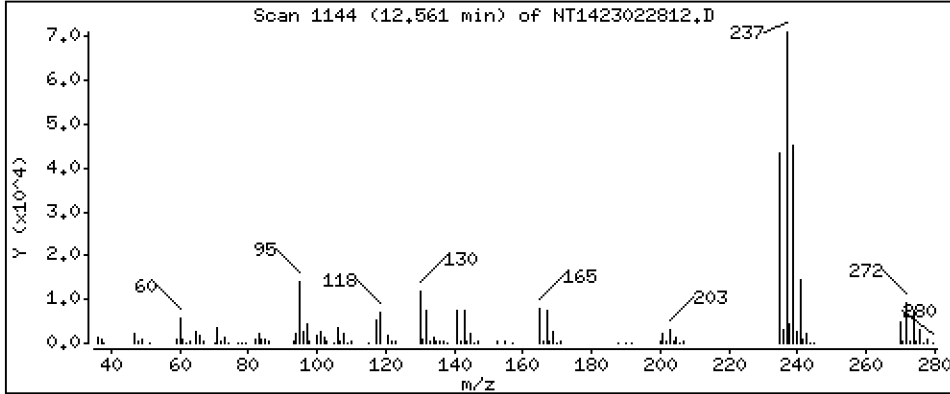
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

33 Hexachlorocyclopentadiene

Concentration: 4.533 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

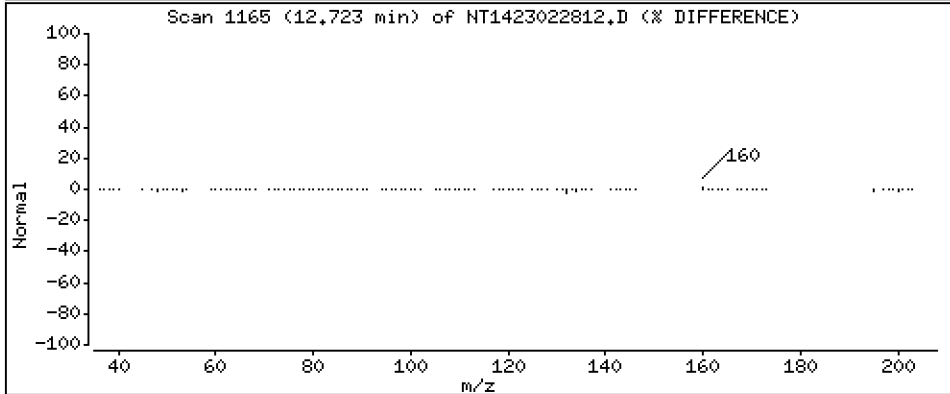
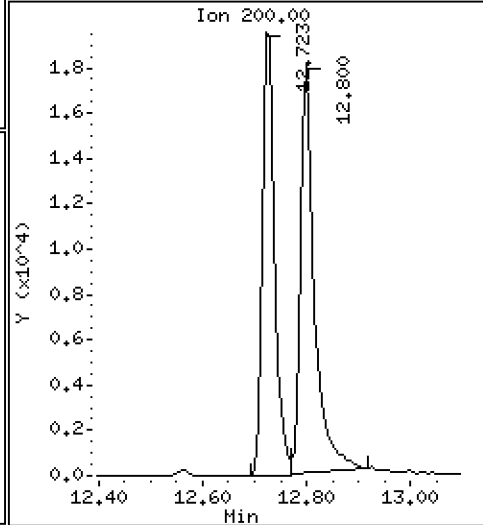
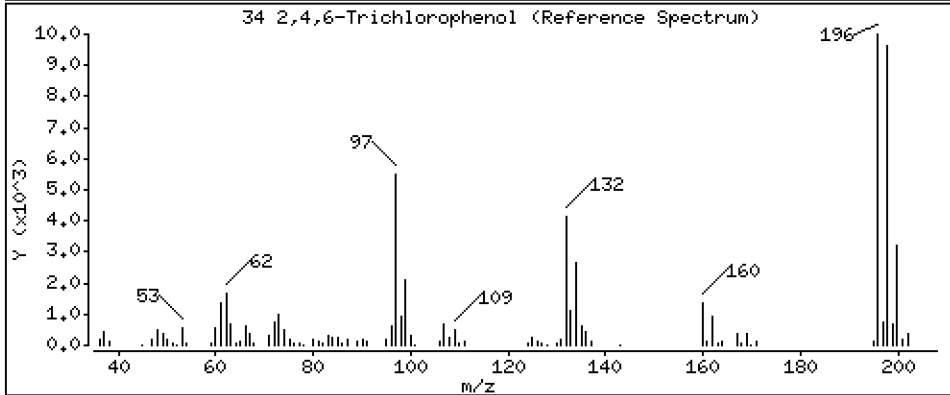
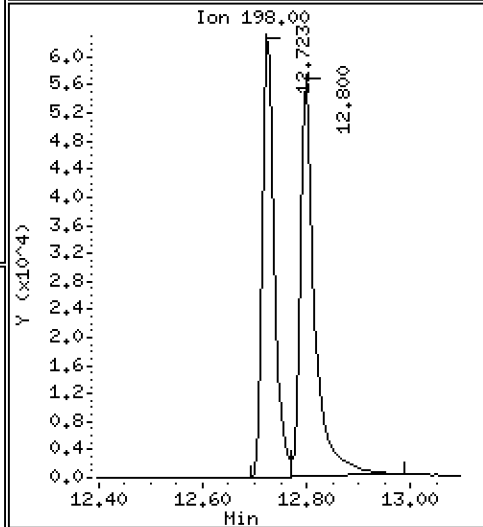
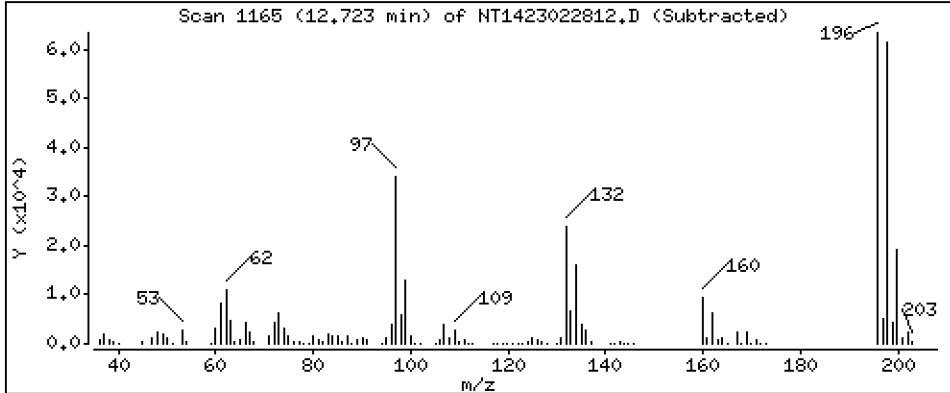
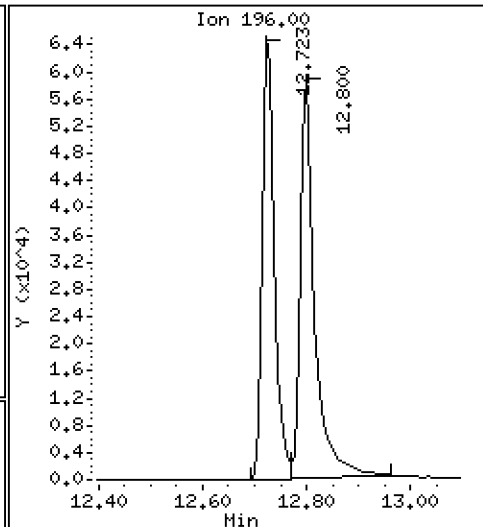
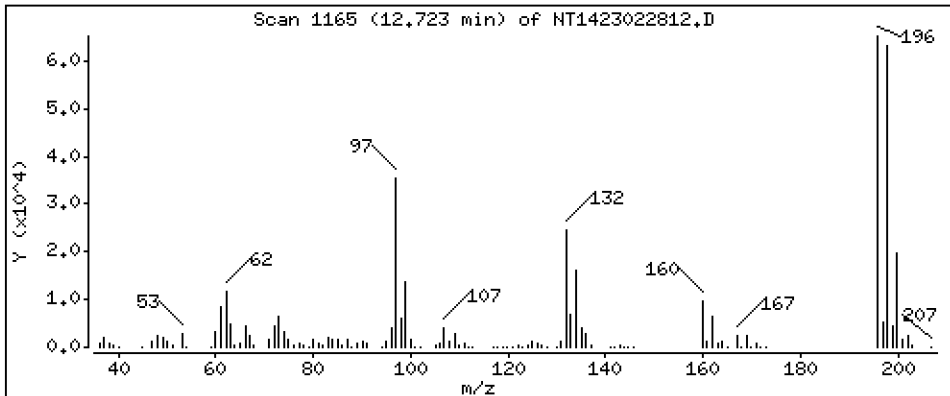
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

34 2,4,6-Trichlorophenol

Concentration: 4,788 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

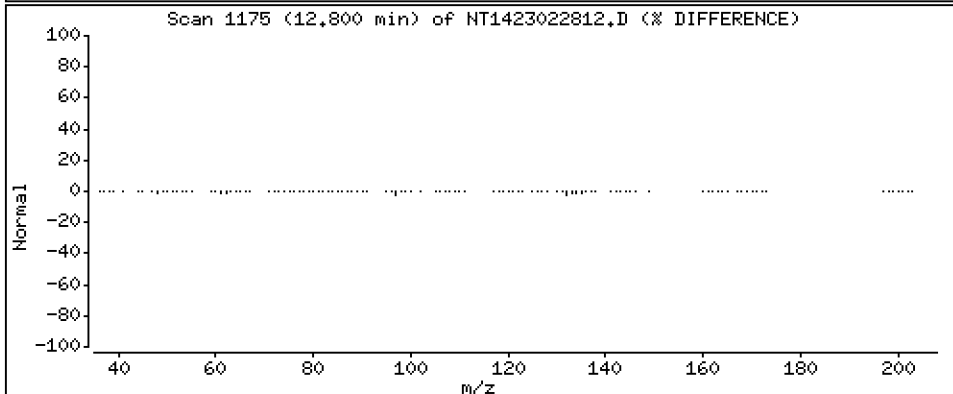
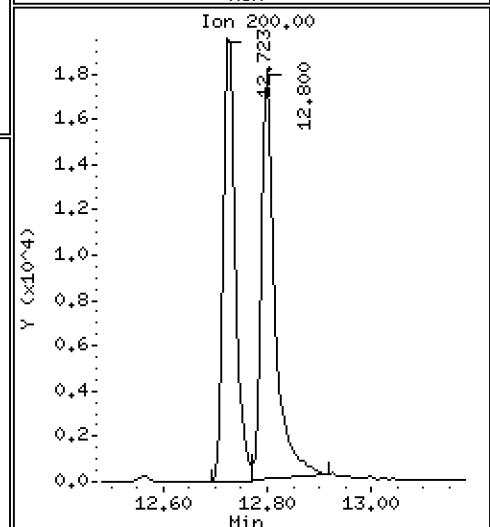
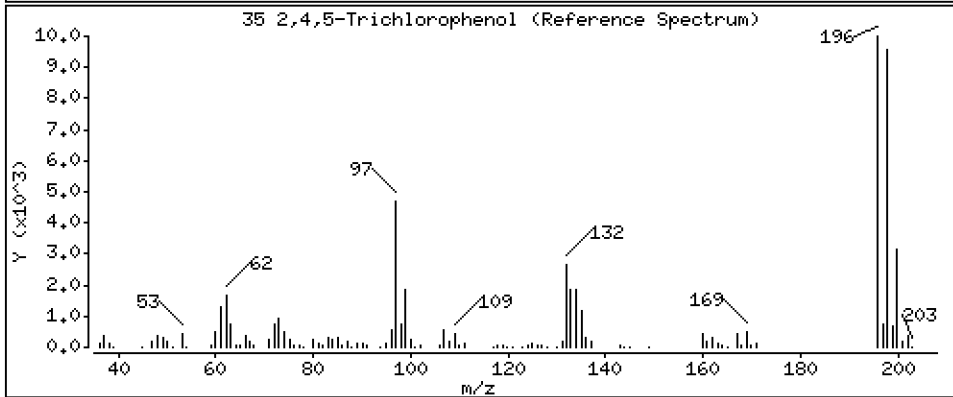
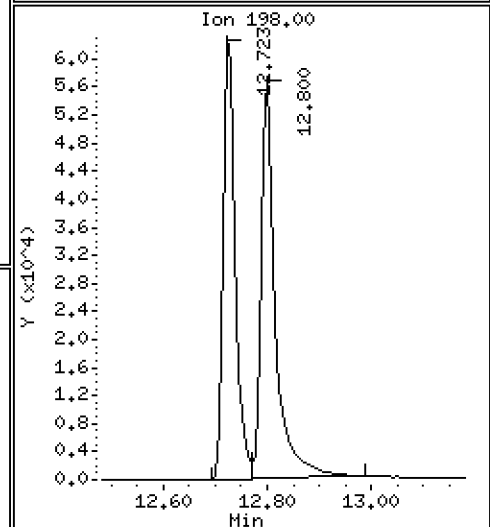
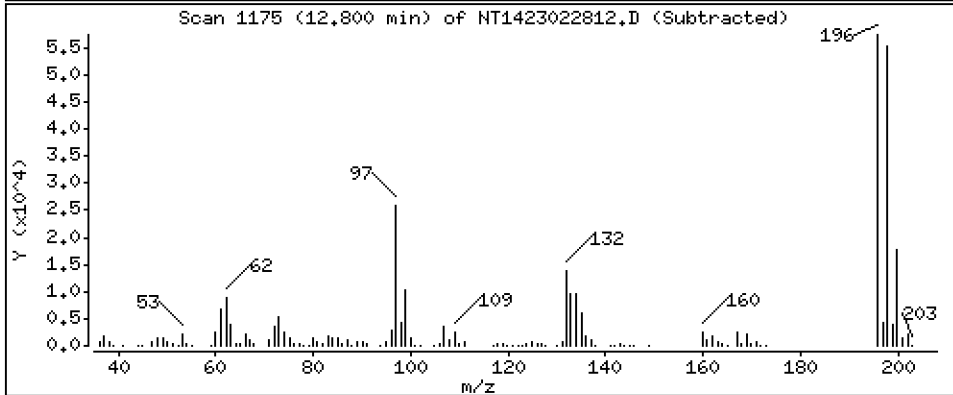
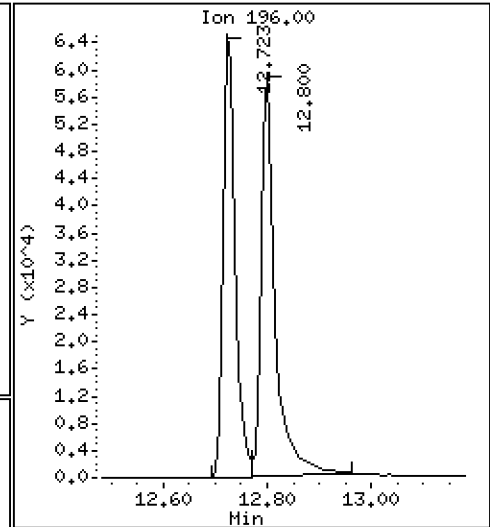
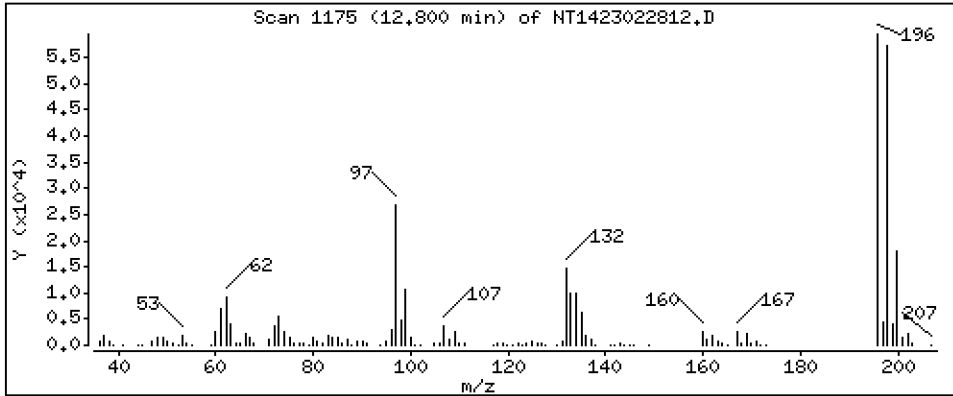
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

35 2,4,5-Trichlorophenol

Concentration: 4,669 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

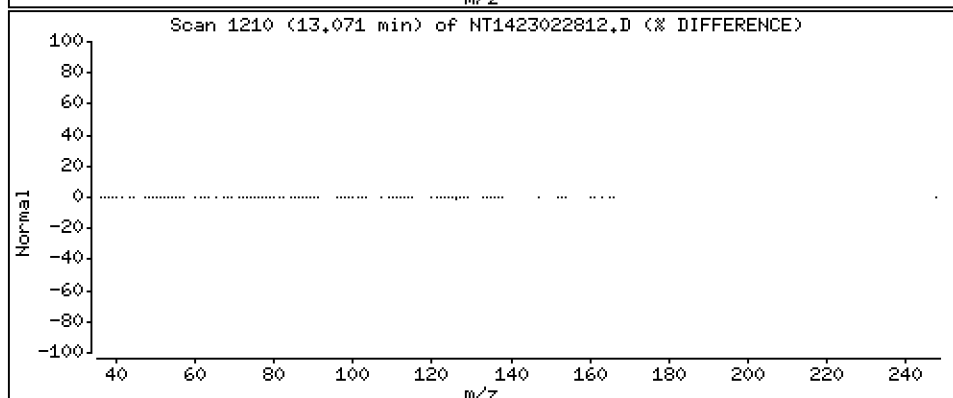
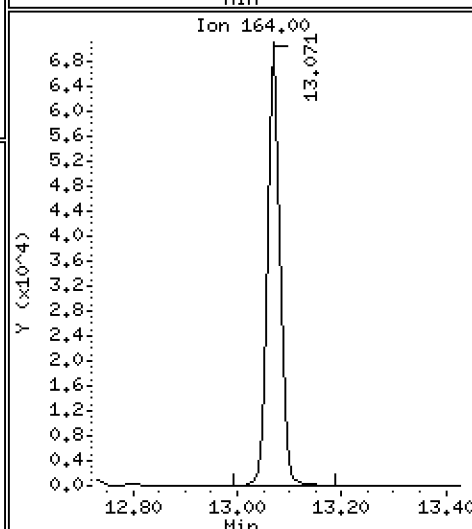
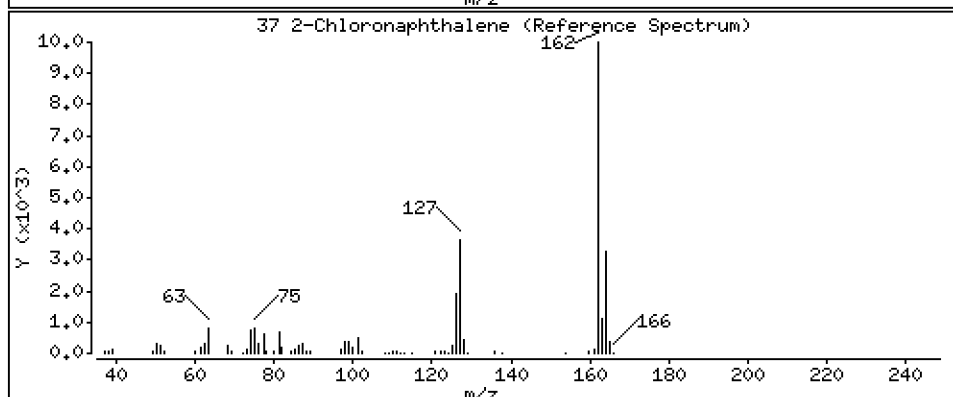
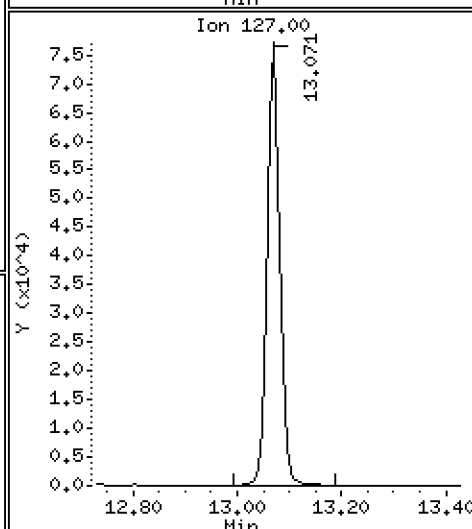
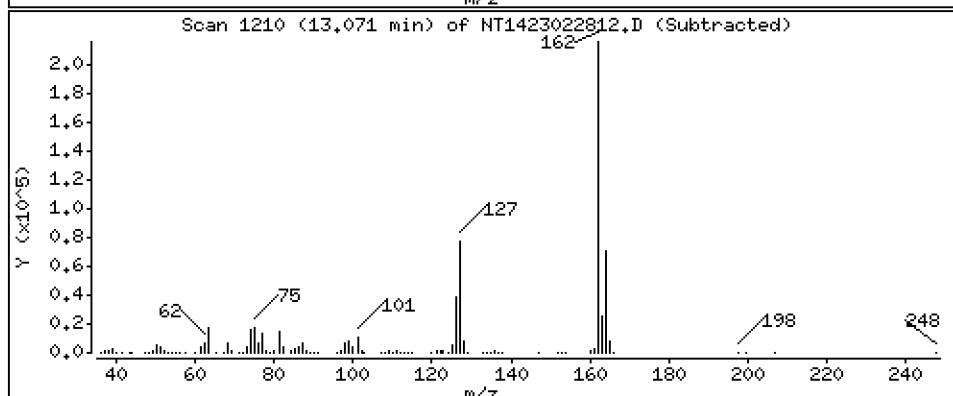
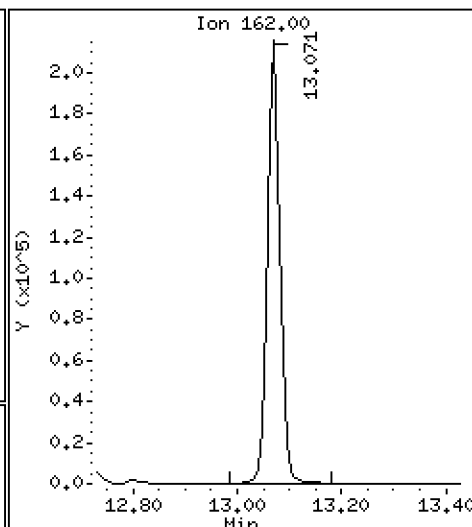
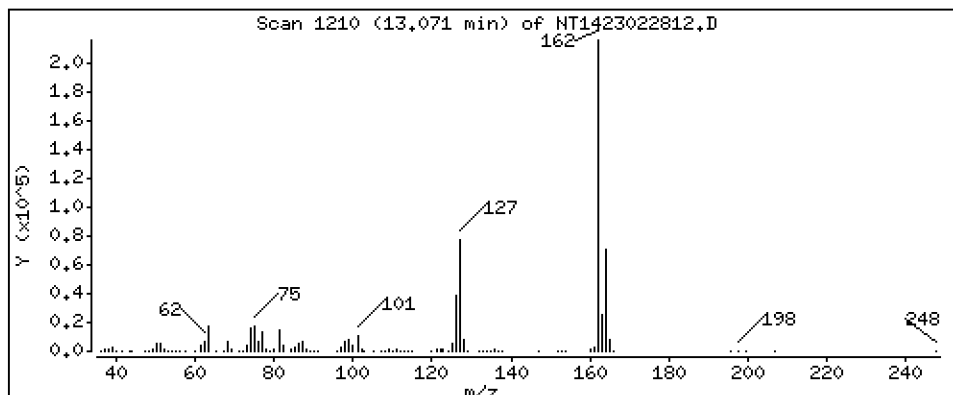
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

37 2-Chloronaphthalene

Concentration: 4,911 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

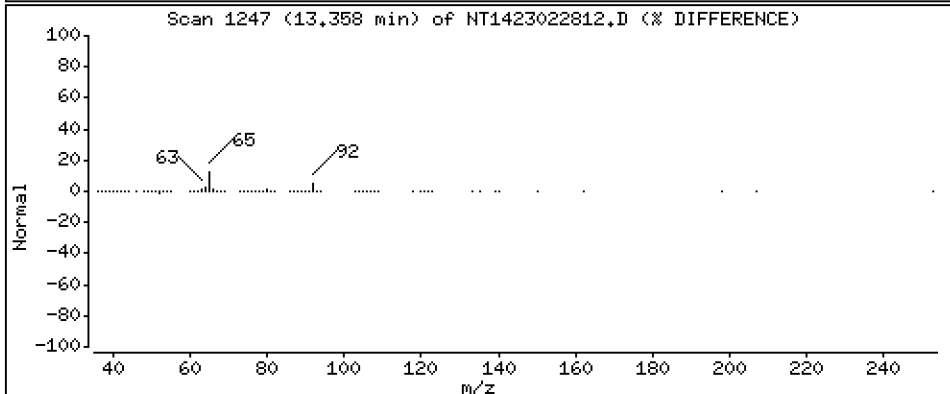
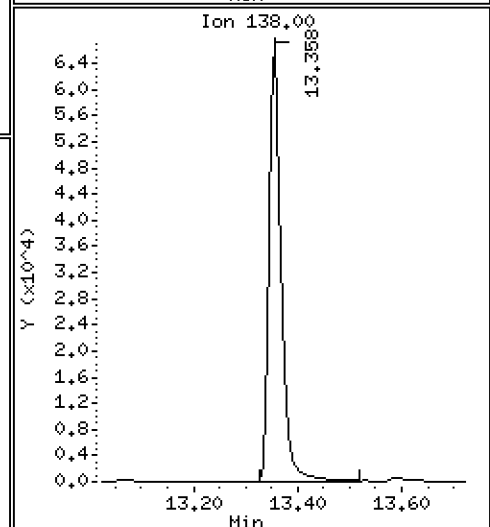
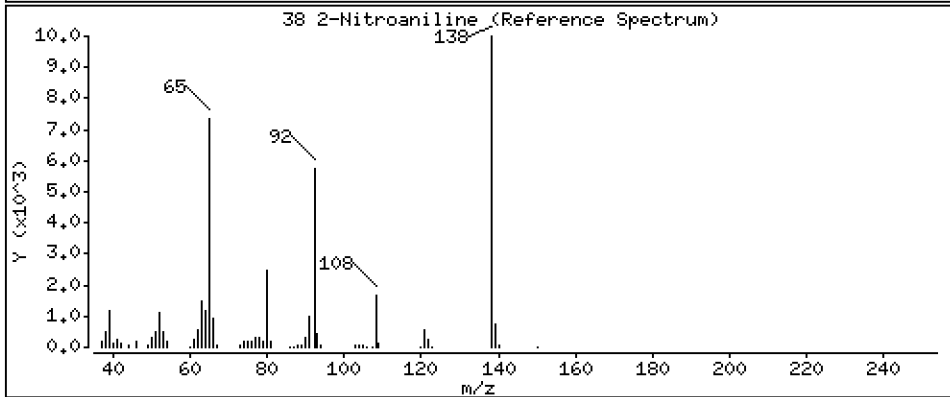
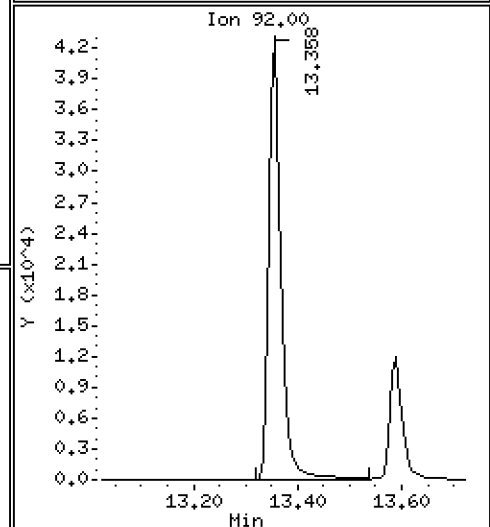
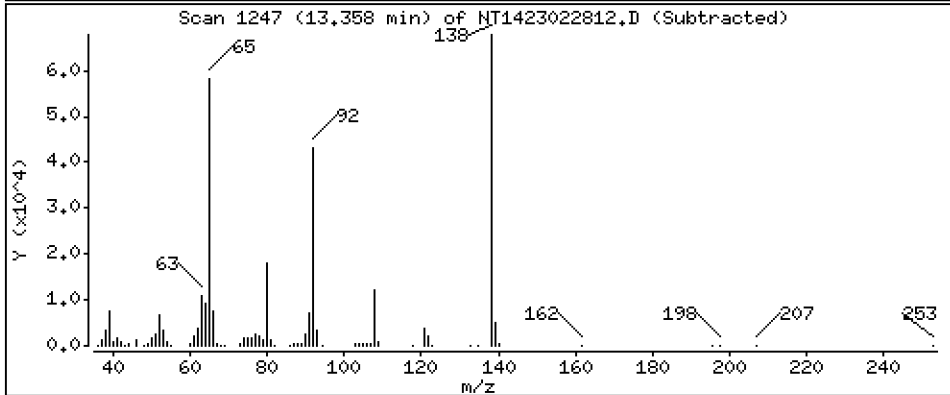
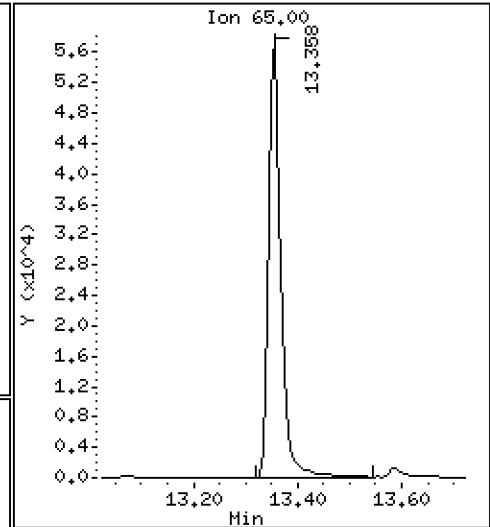
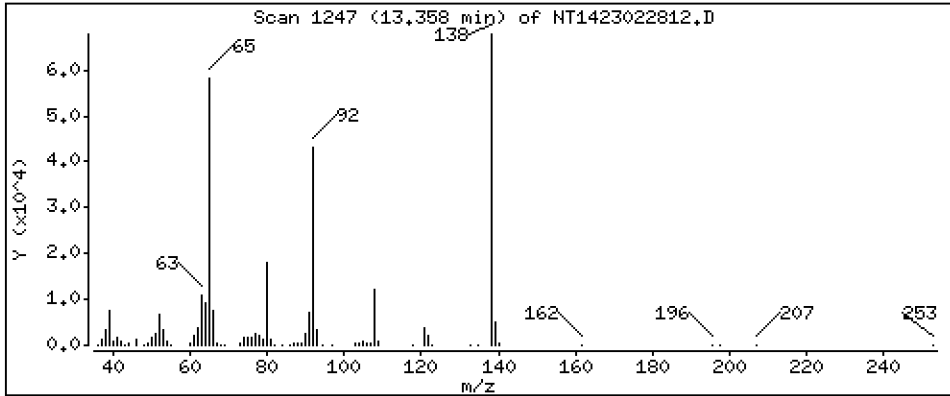
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

38 2-Nitroaniline

Concentration: 4,980 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

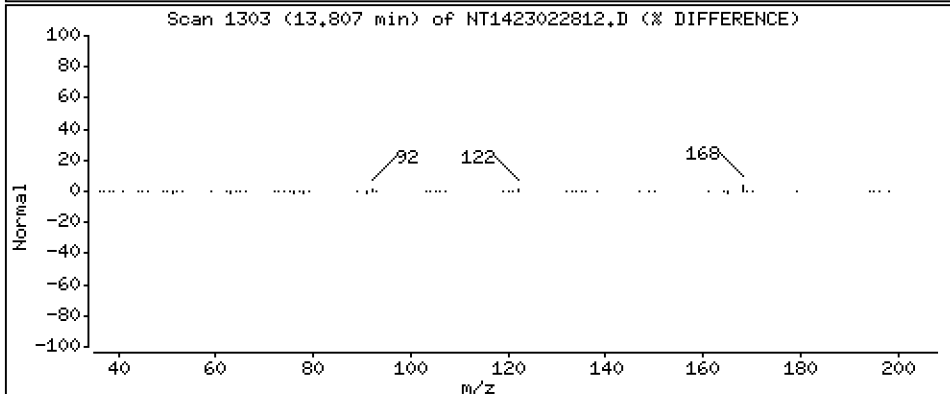
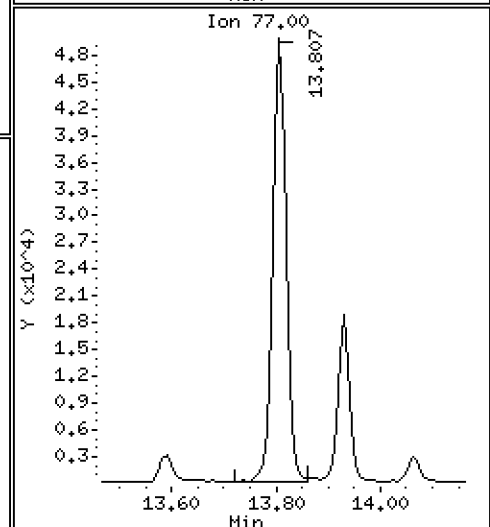
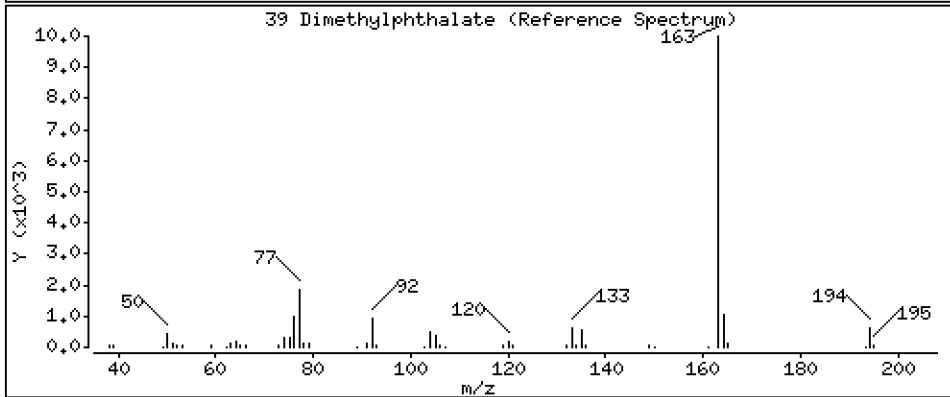
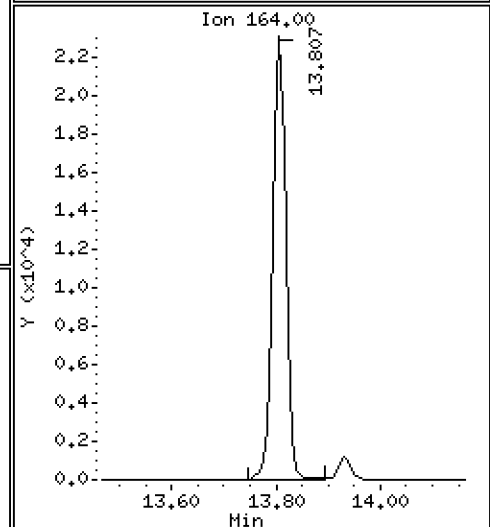
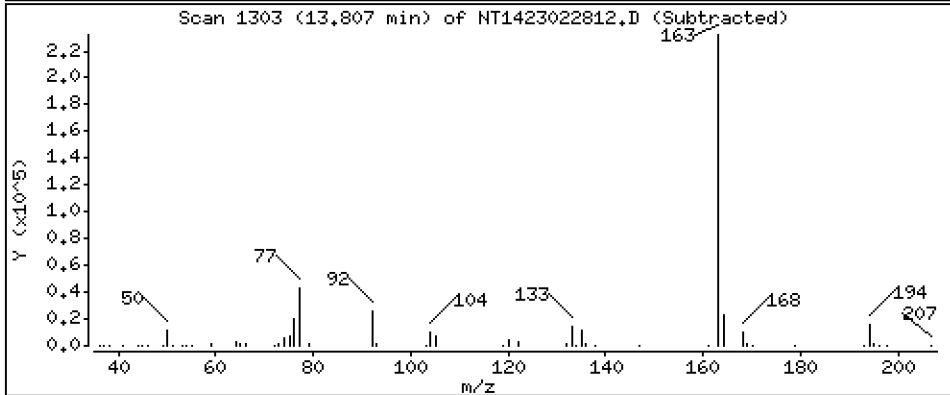
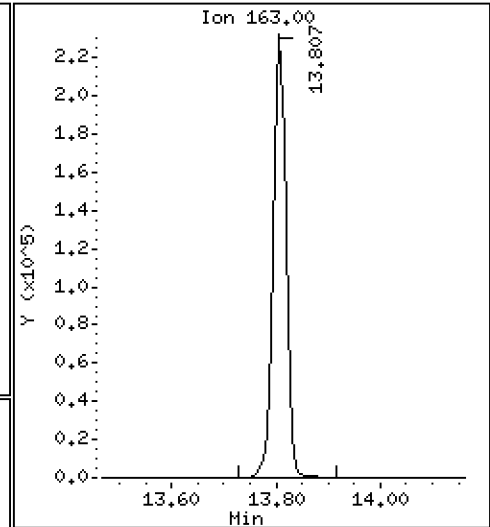
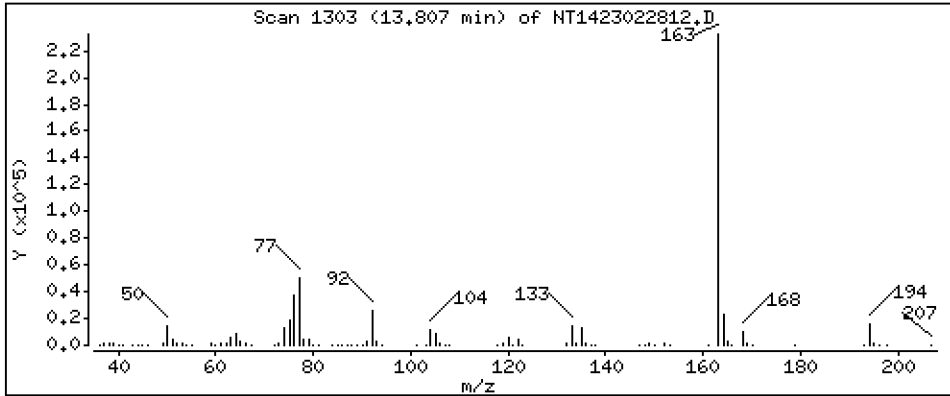
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 5,206 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

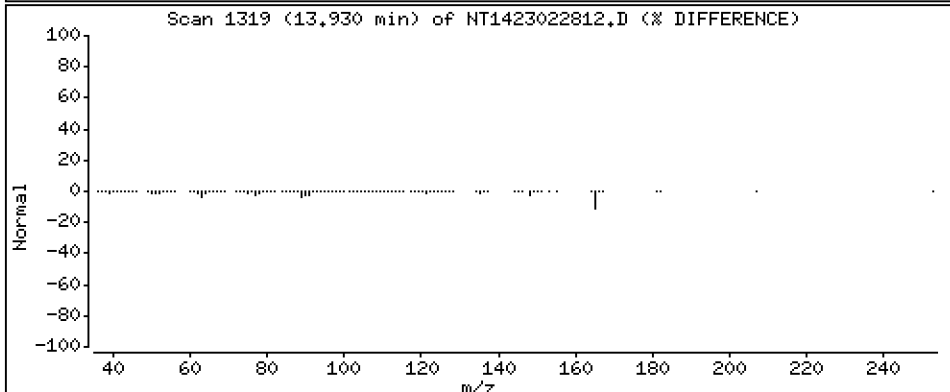
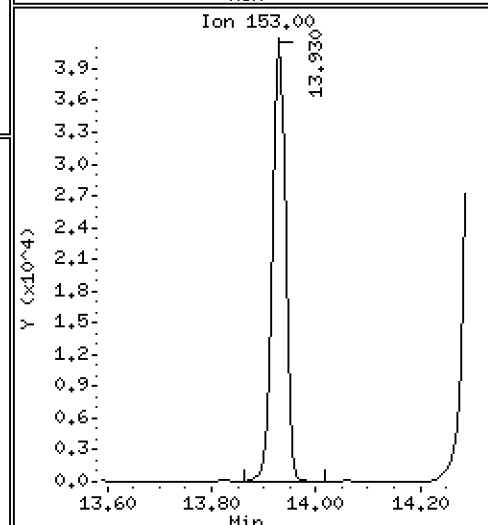
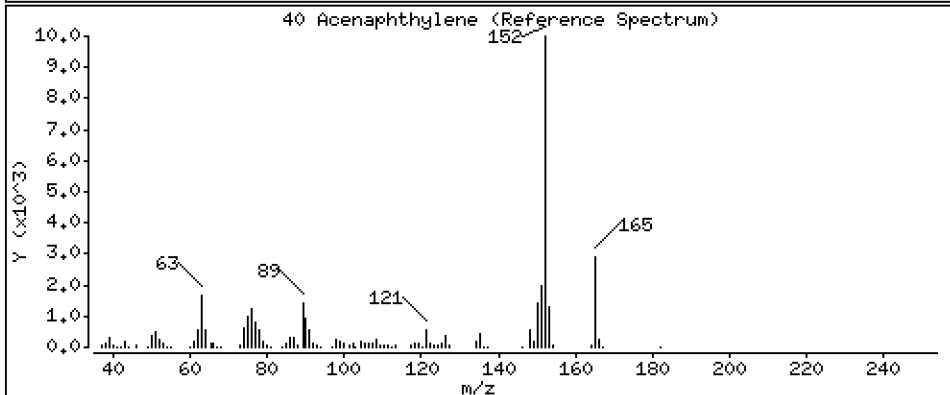
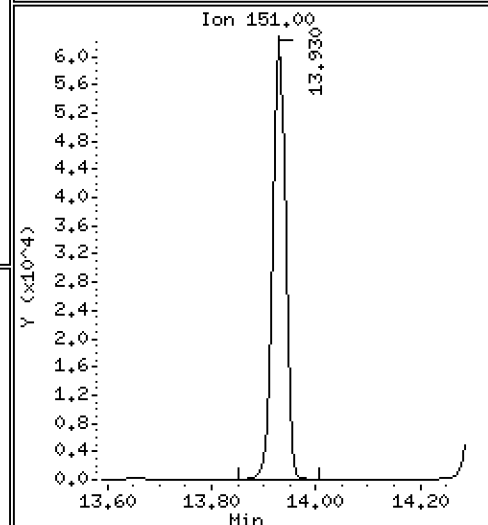
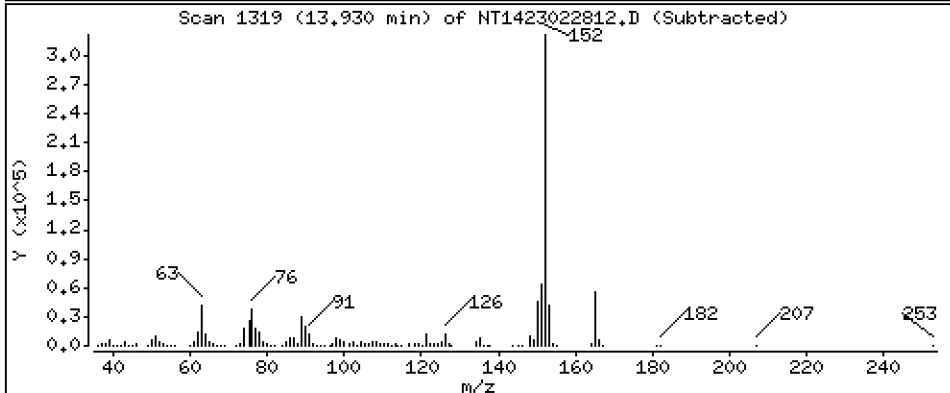
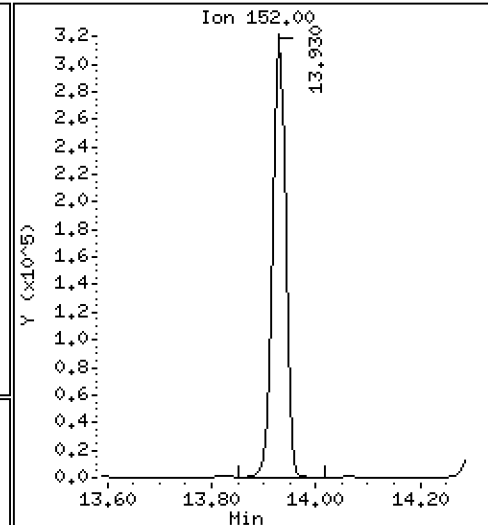
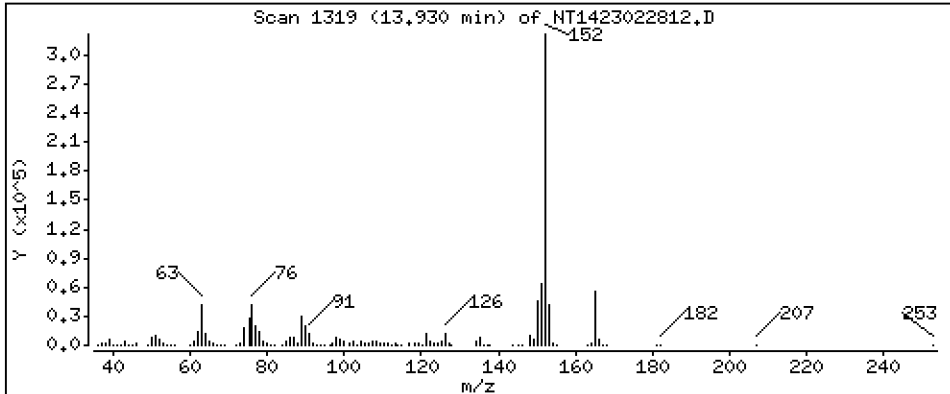
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 4,975 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

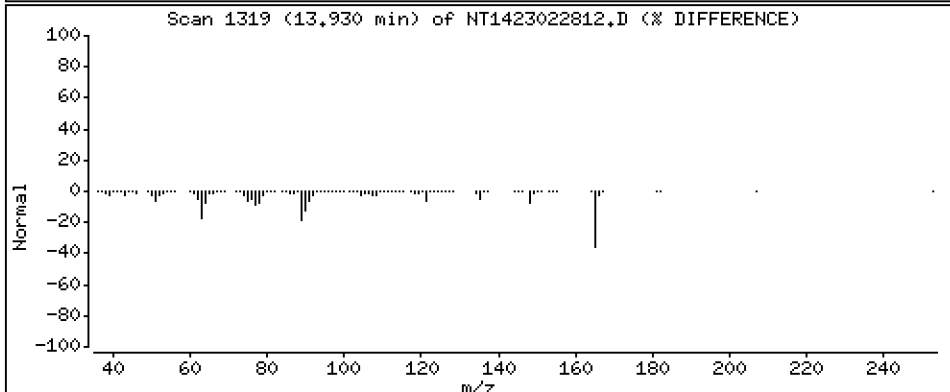
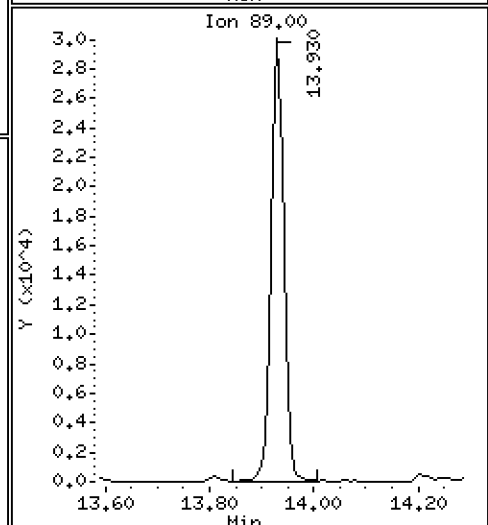
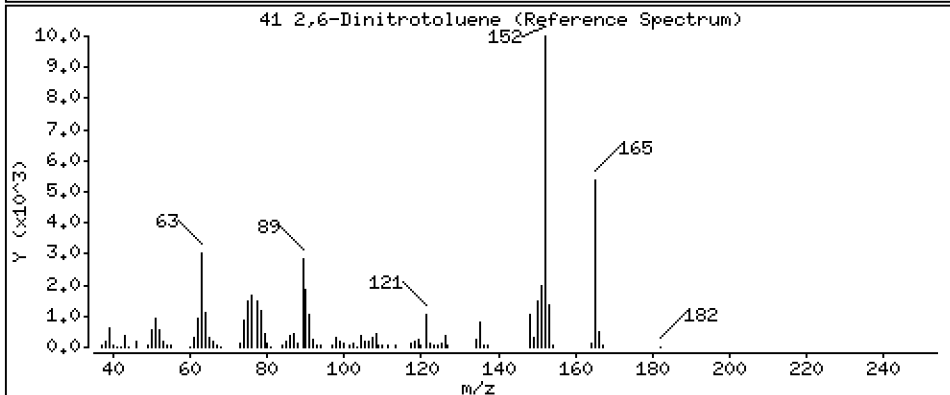
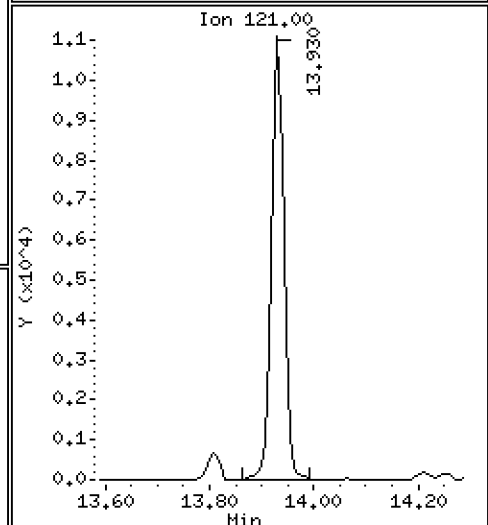
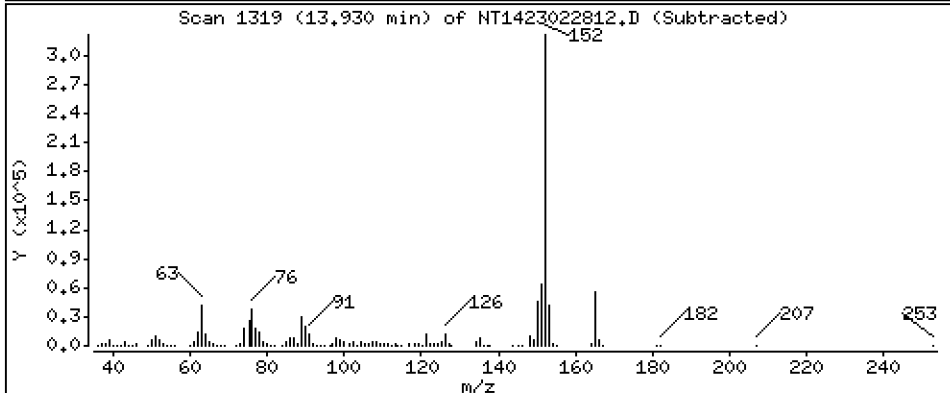
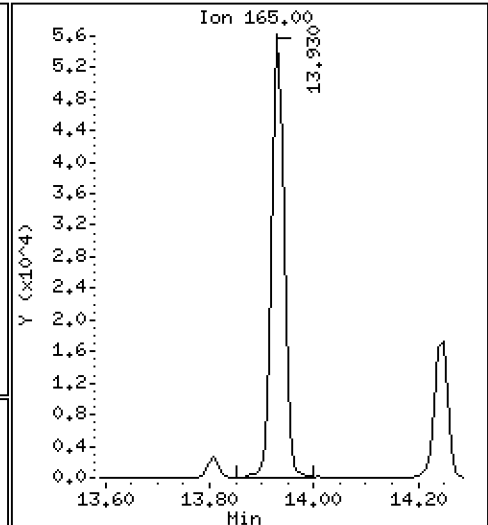
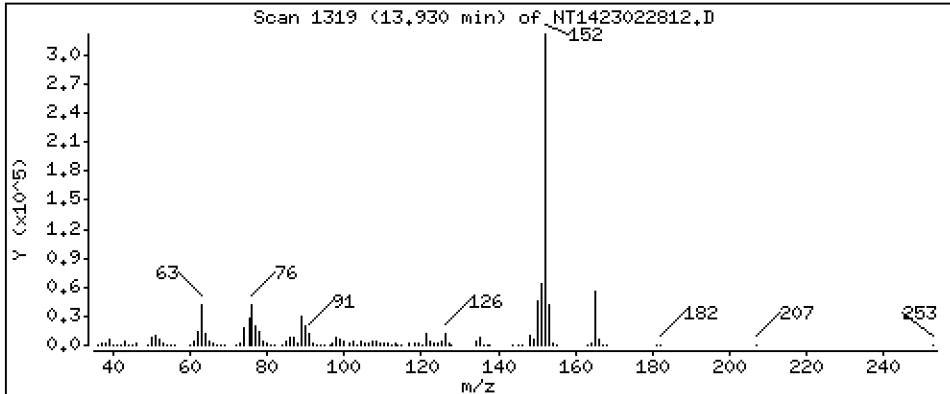
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

41 2,6-Dinitrotoluene

Concentration: 5,227 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

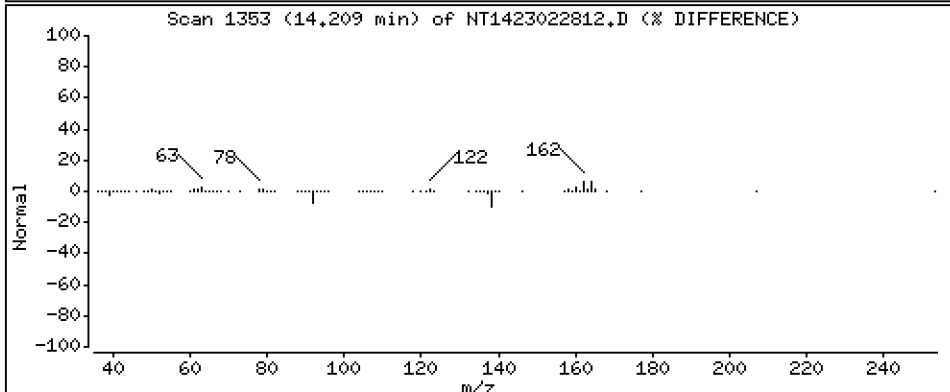
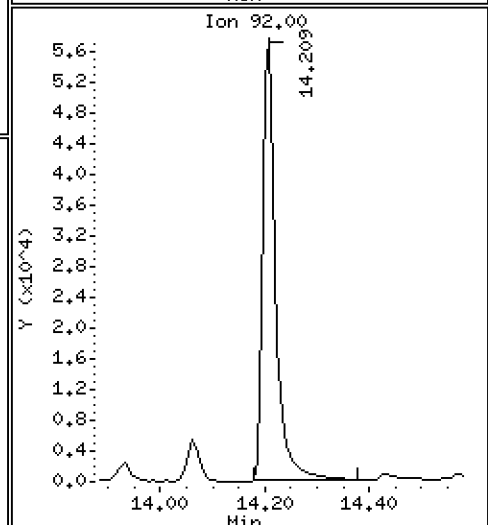
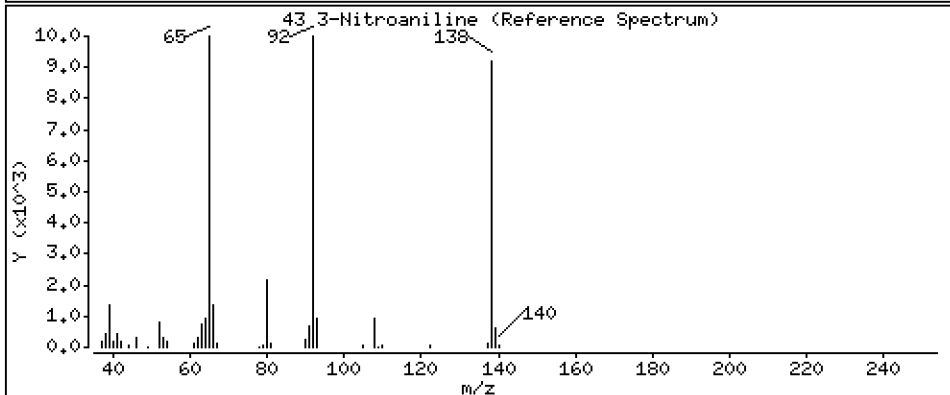
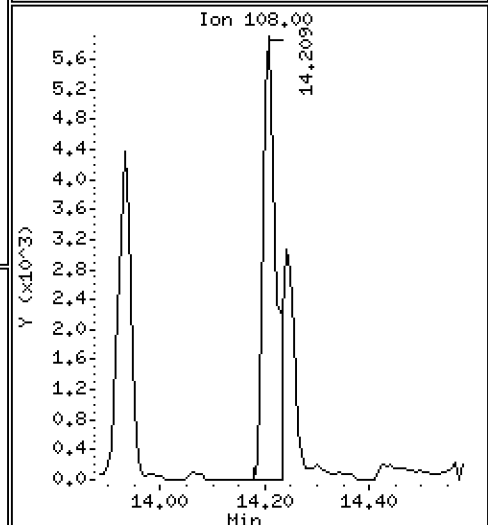
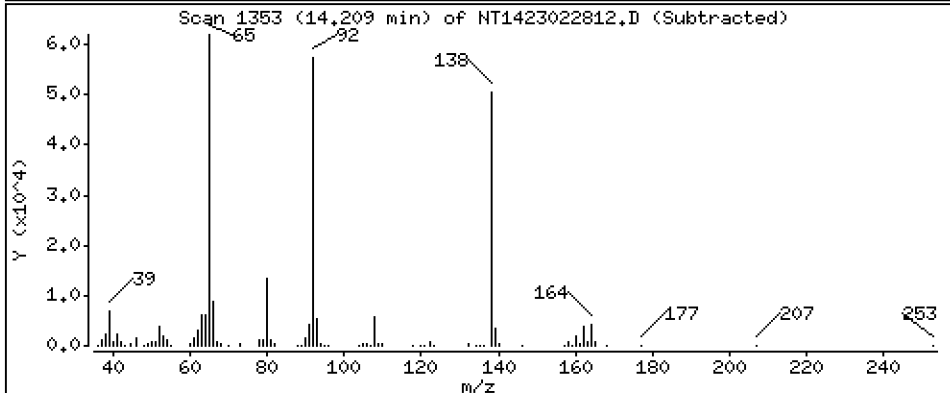
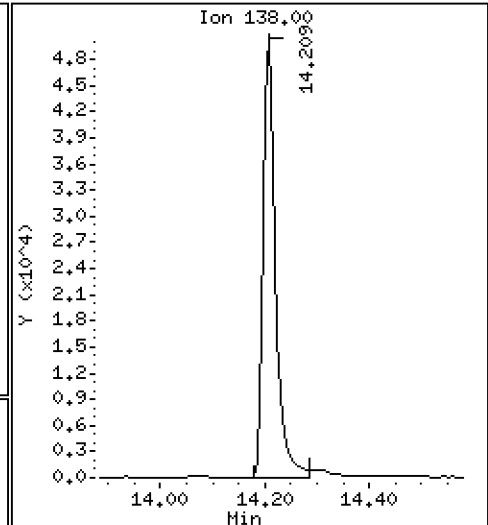
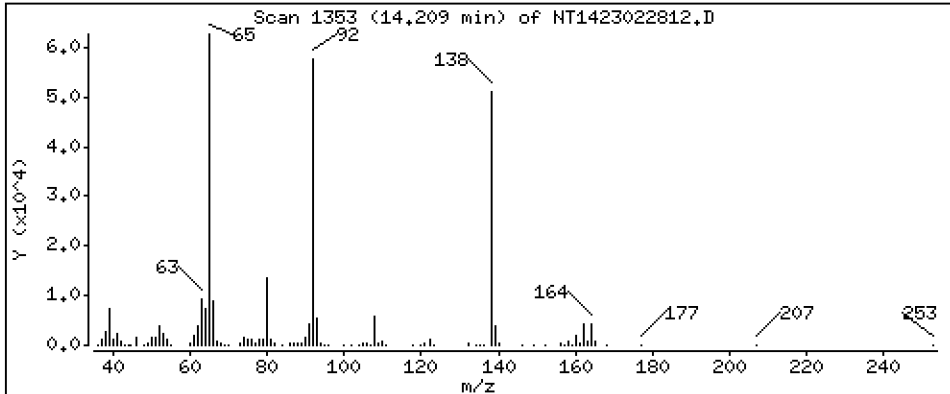
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

43 3-Nitroaniline

Concentration: 4,869 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

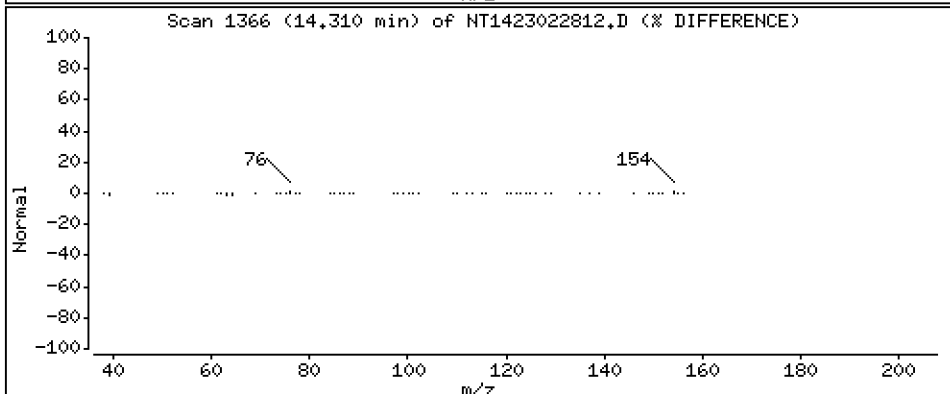
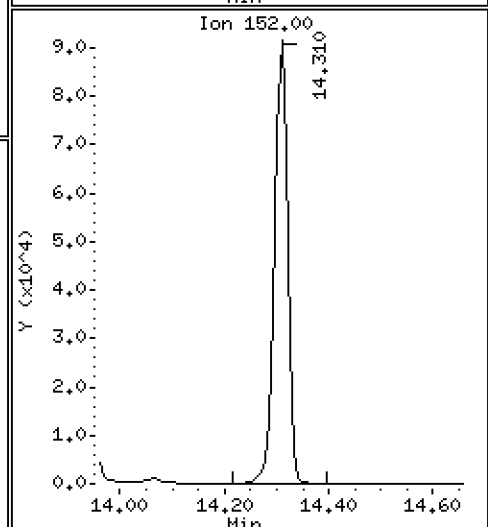
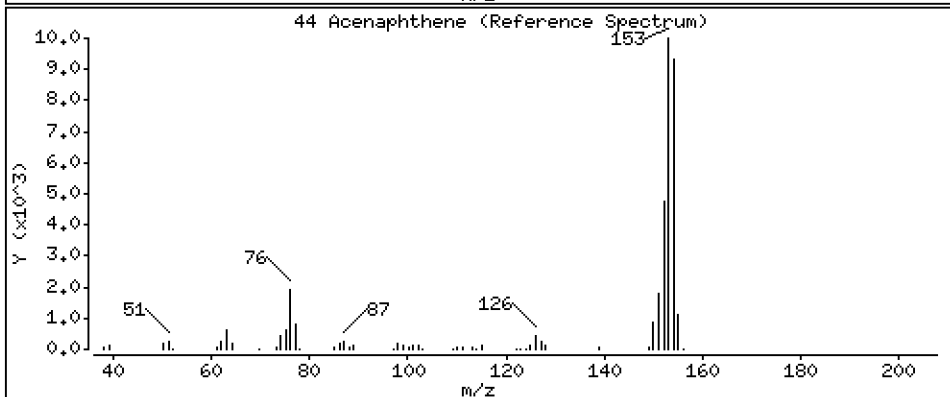
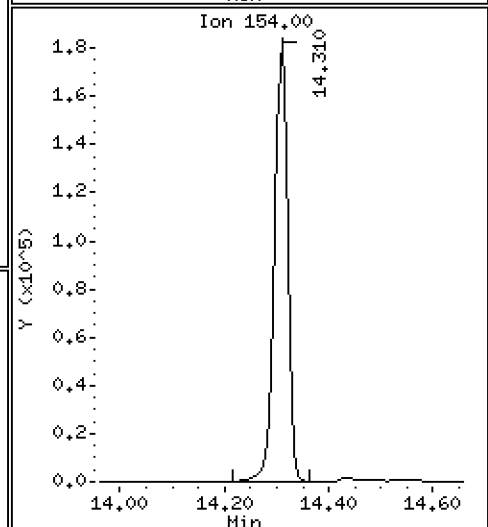
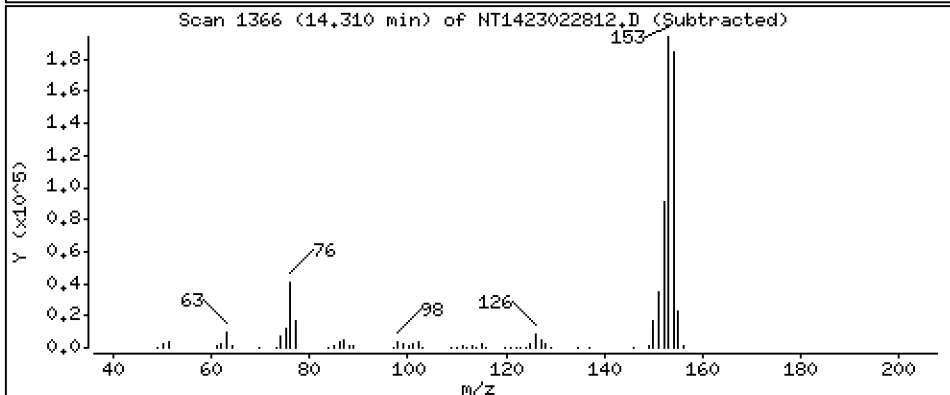
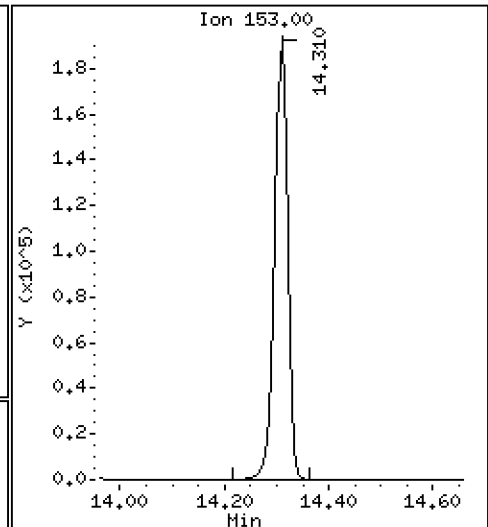
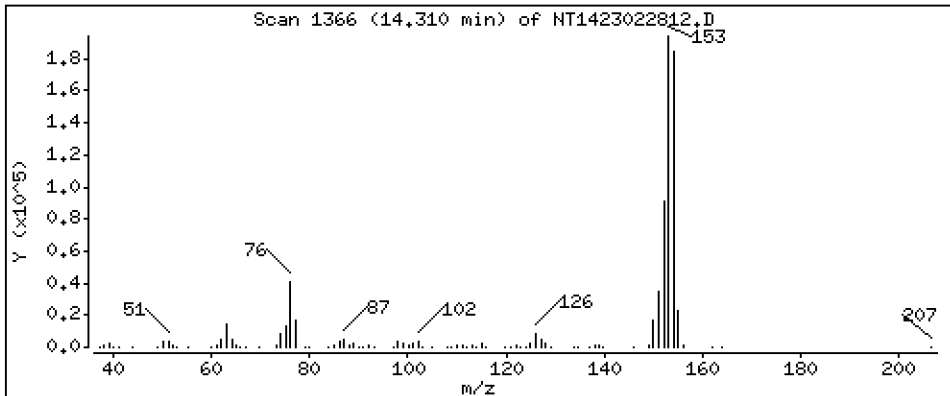
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

44 Acenaphthene

Concentration: 4.767 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

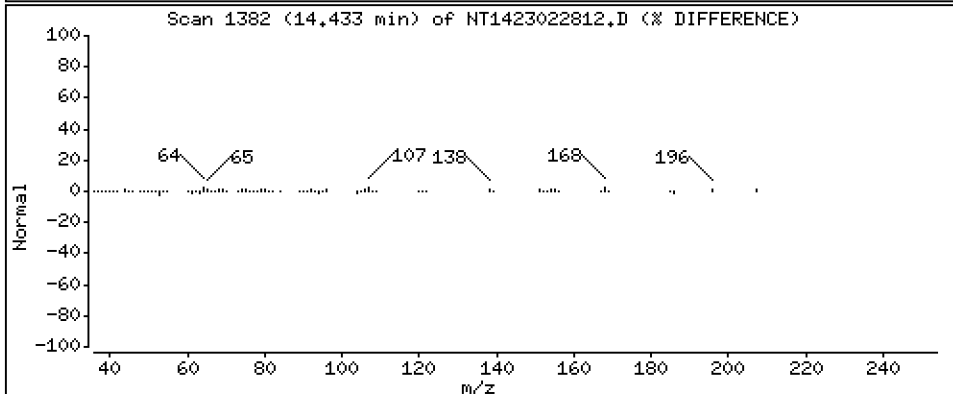
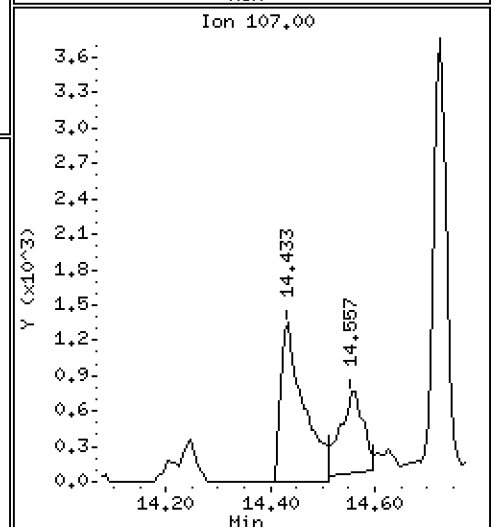
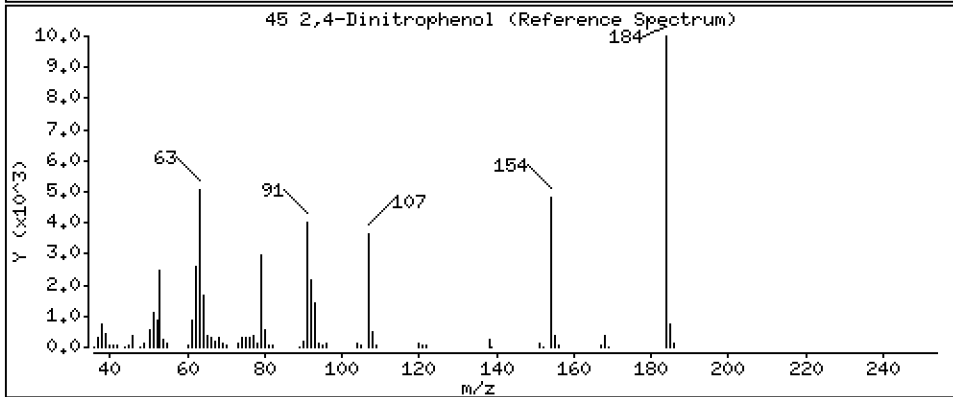
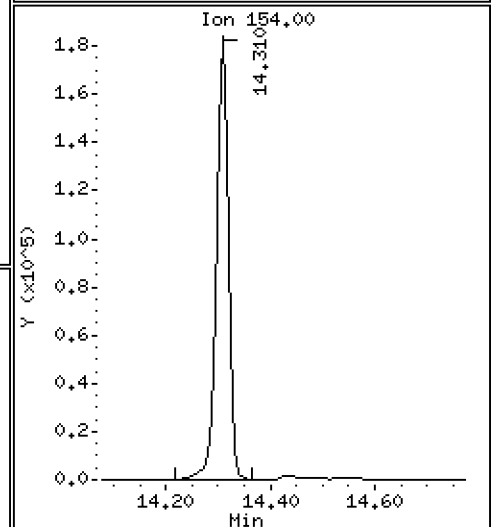
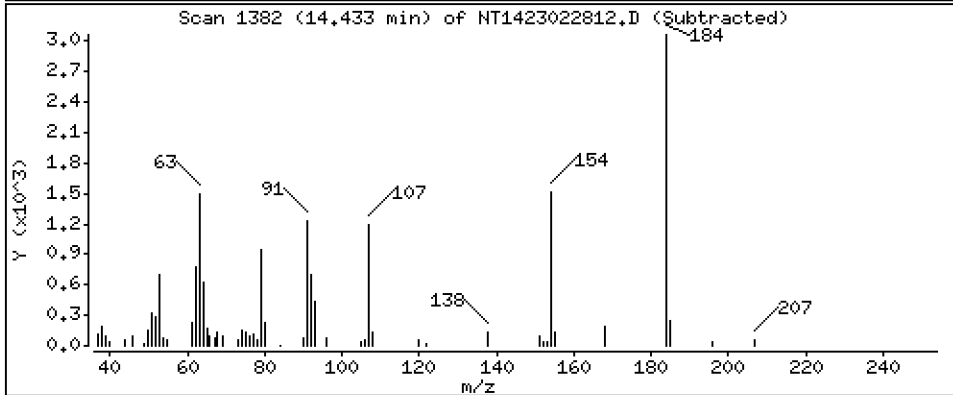
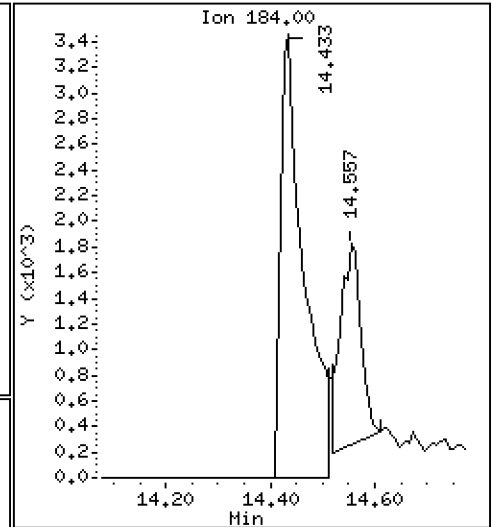
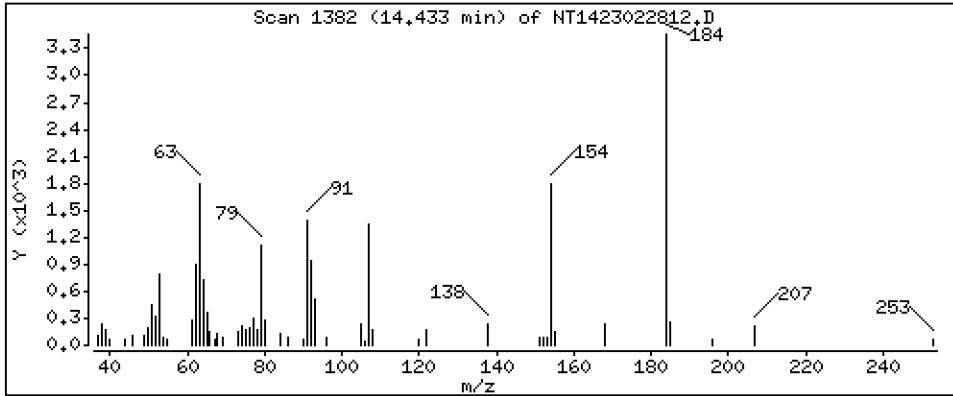
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

45 2,4-Dinitrophenol

Concentration: 0.9807 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

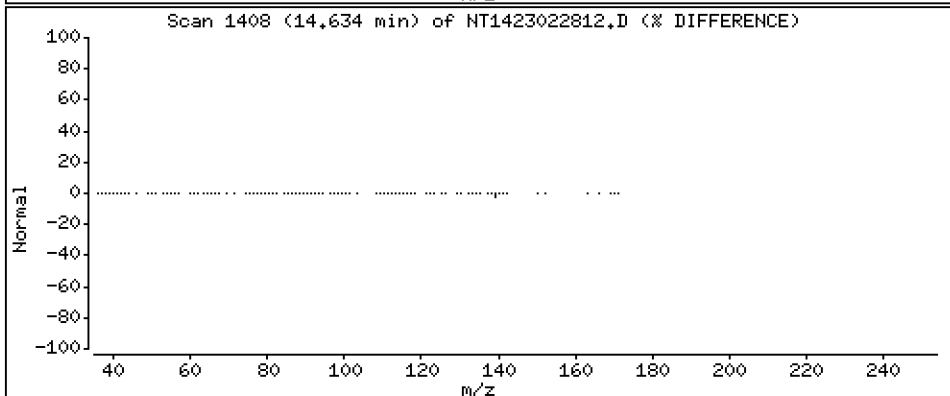
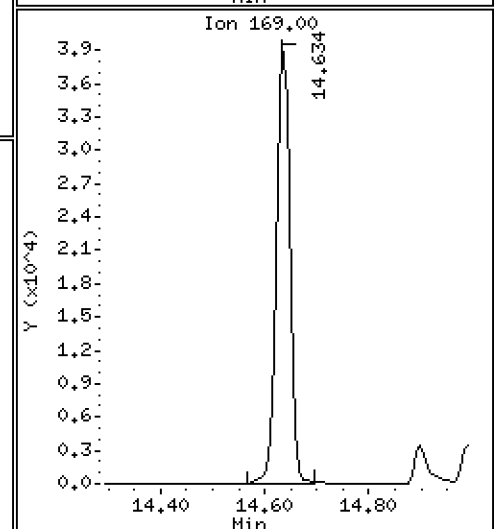
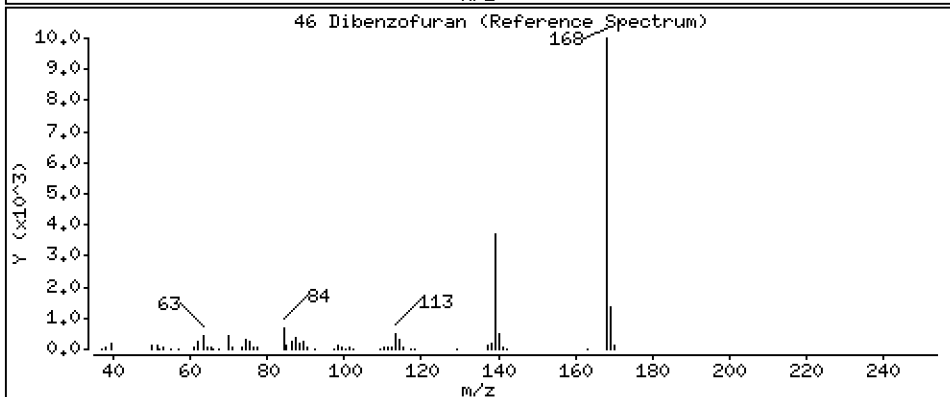
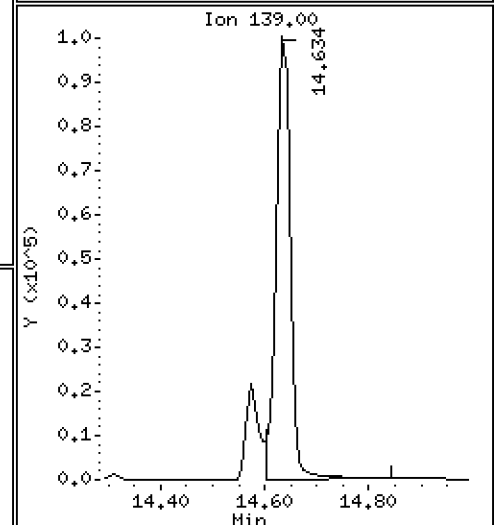
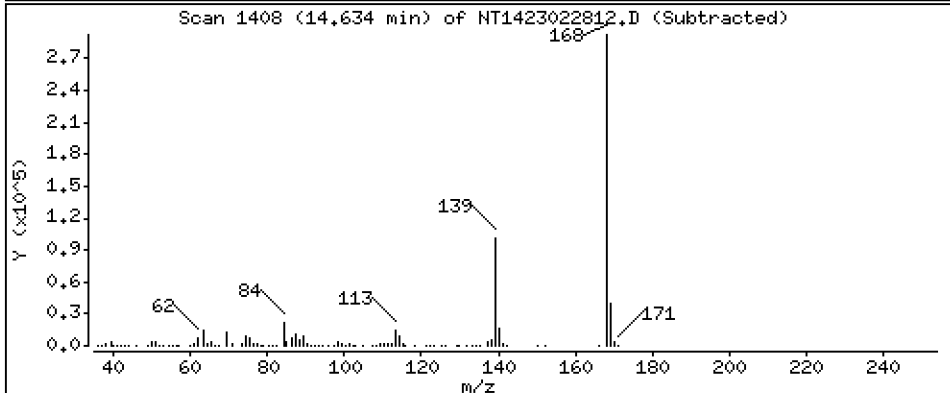
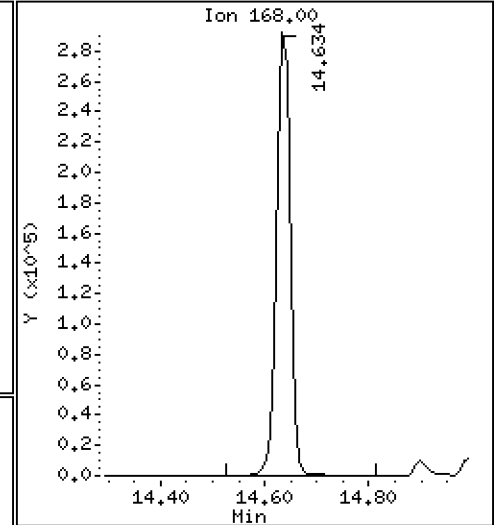
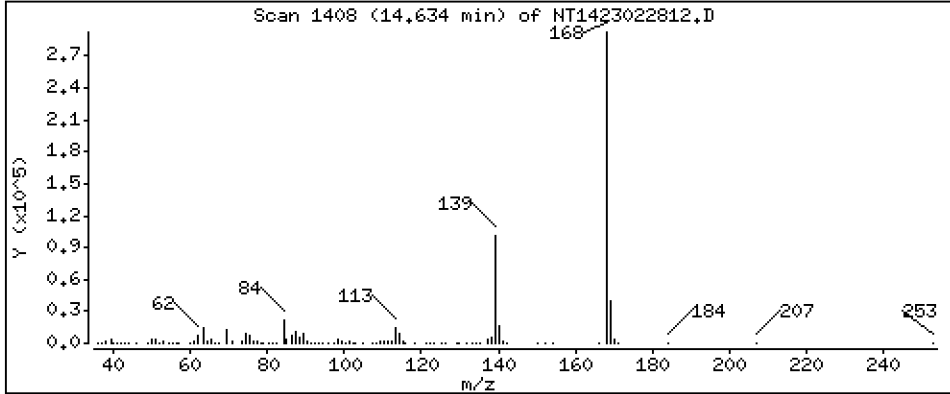
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 4,718 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

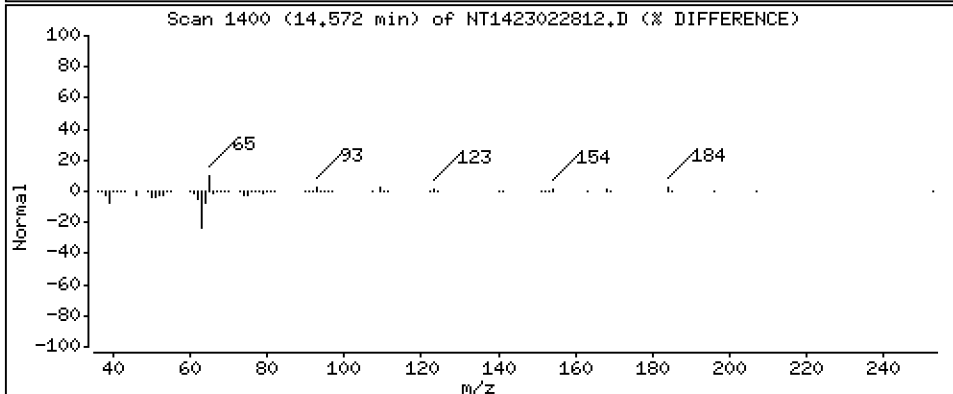
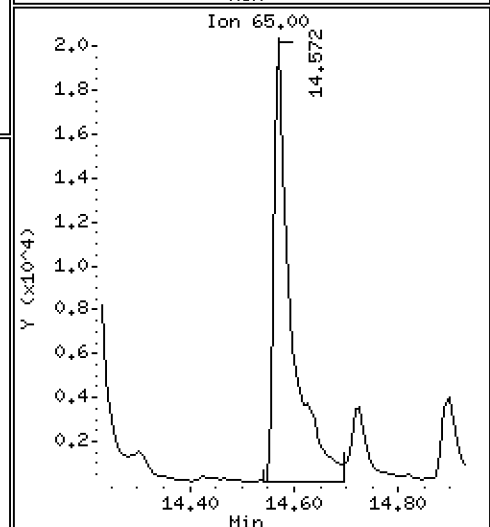
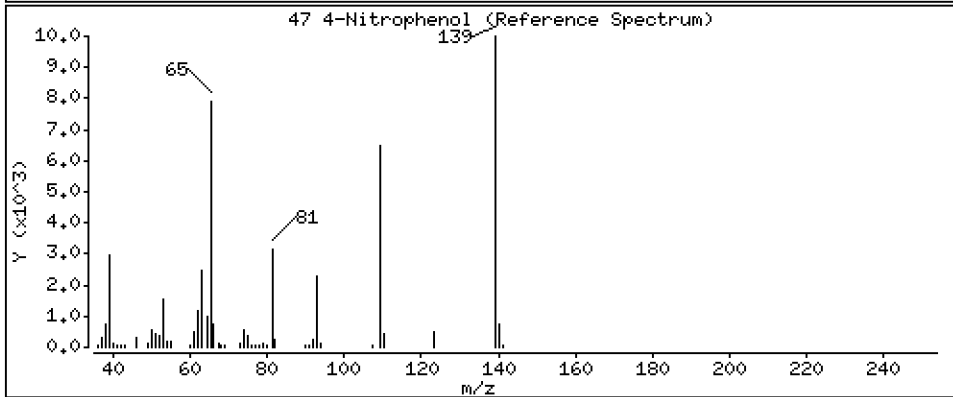
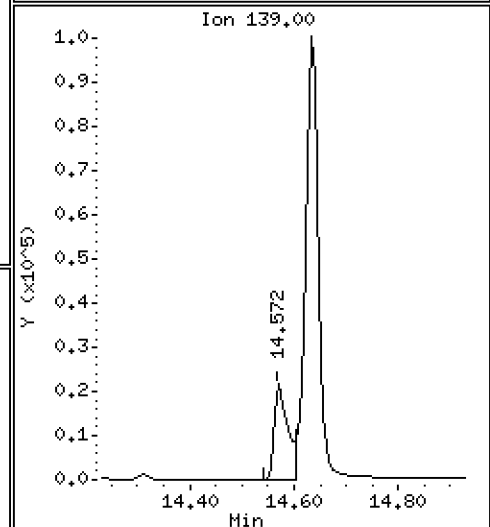
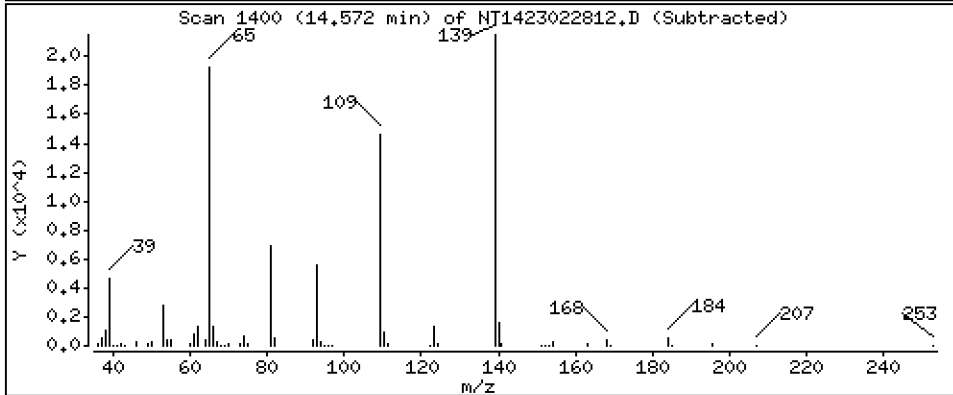
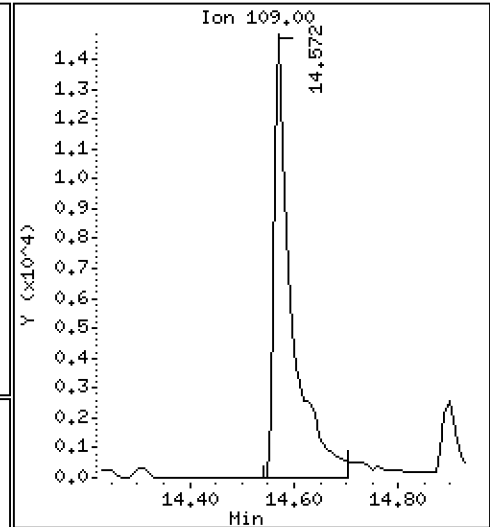
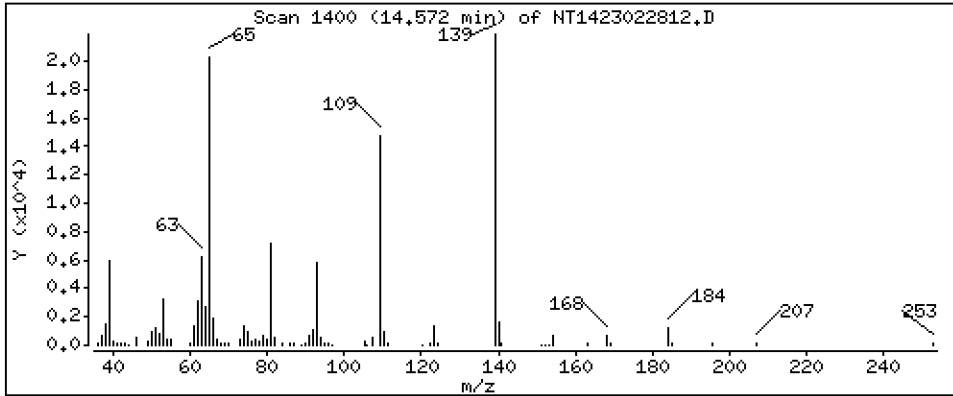
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

47 4-Nitrophenol

Concentration: 3,934 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

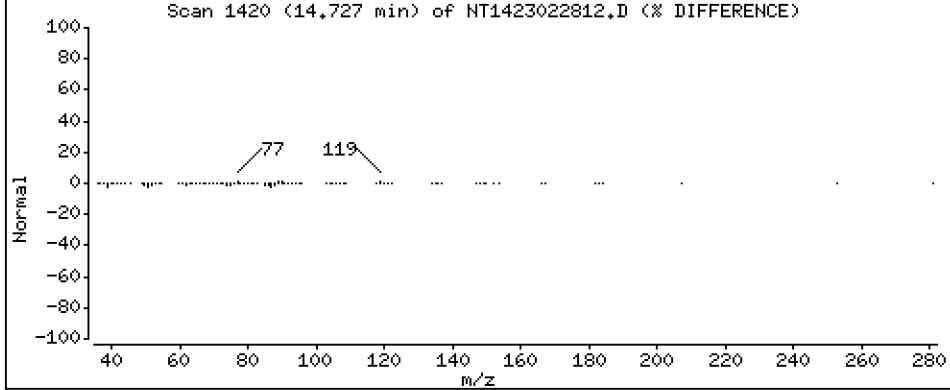
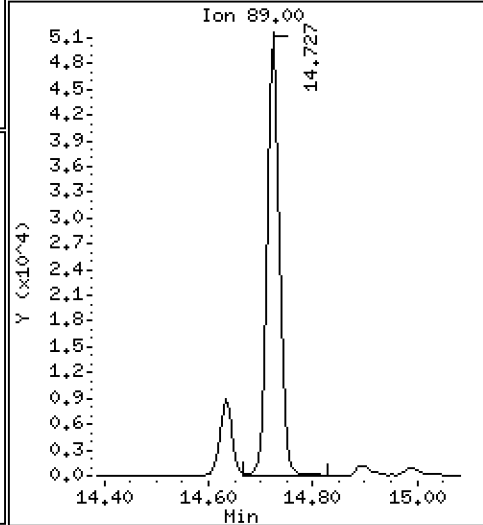
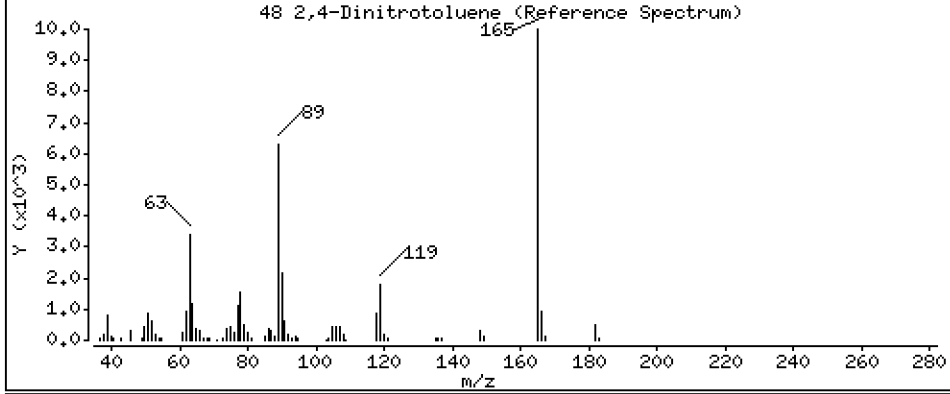
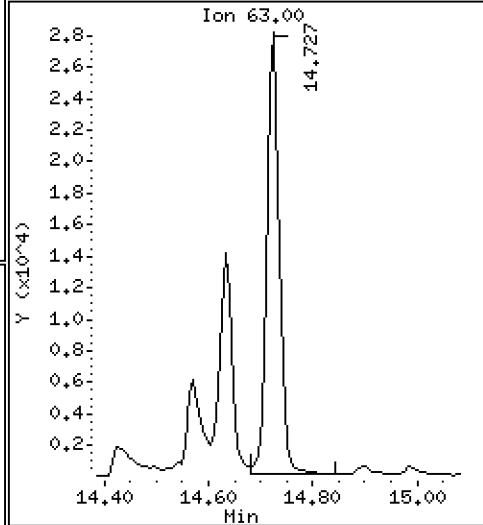
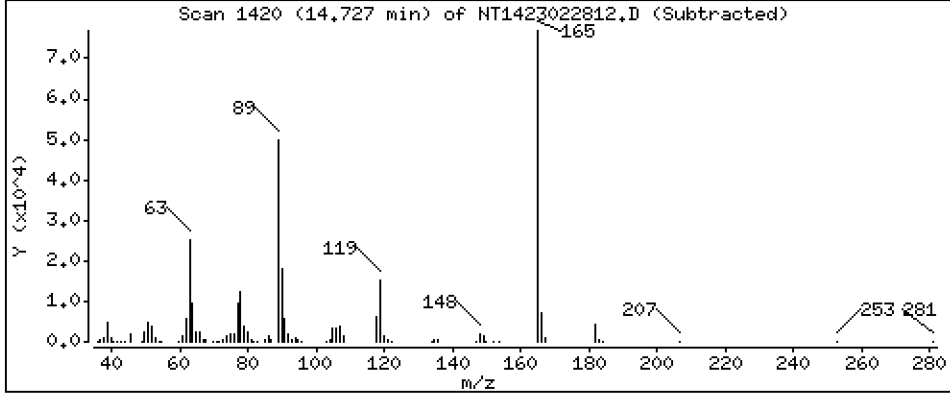
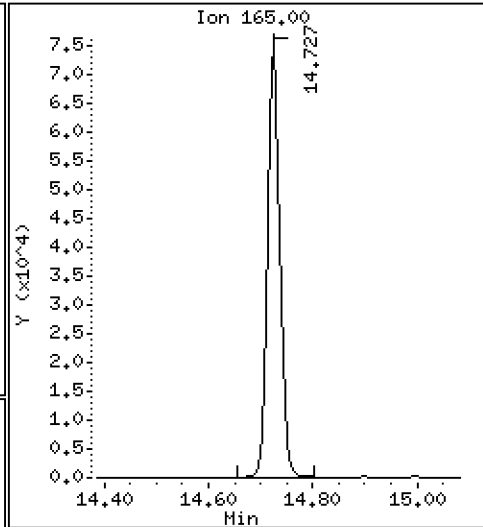
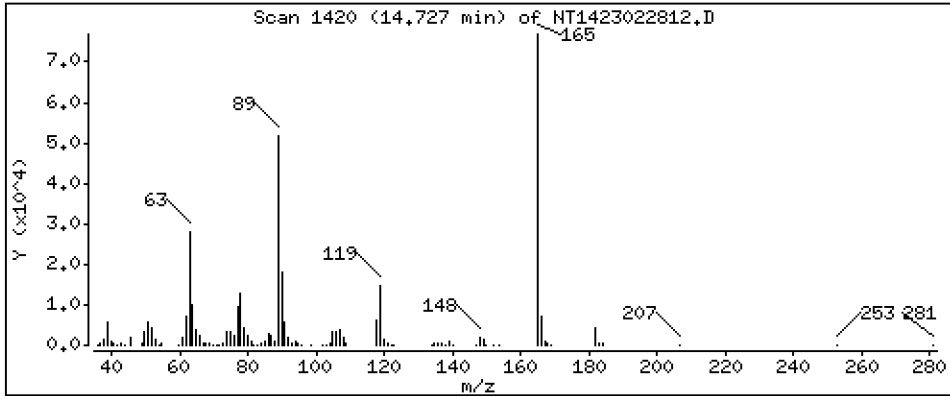
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

48 2,4-Dinitrotoluene

Concentration: 4,941 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

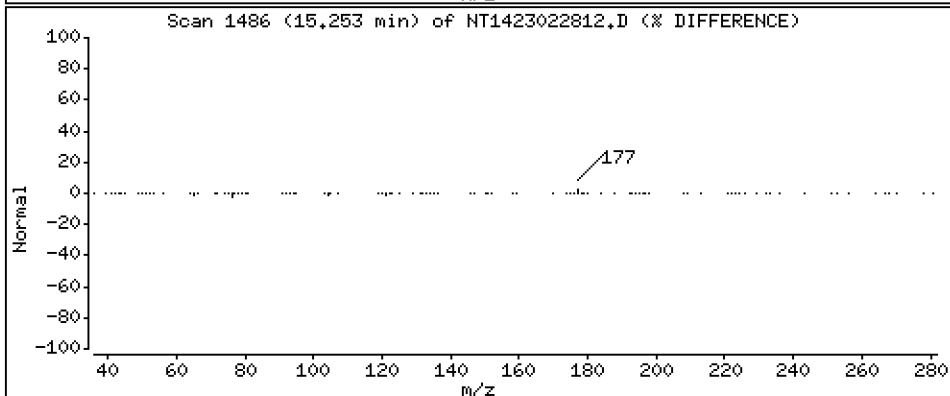
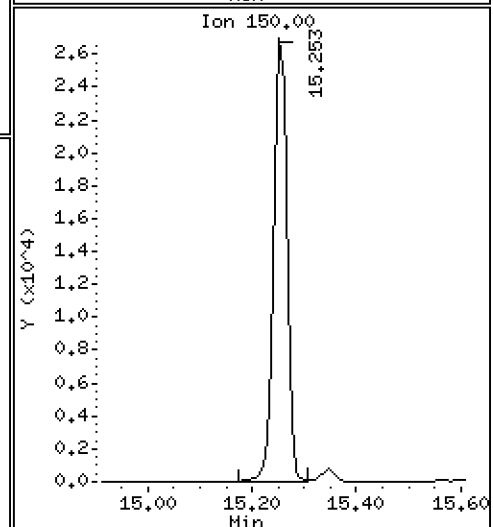
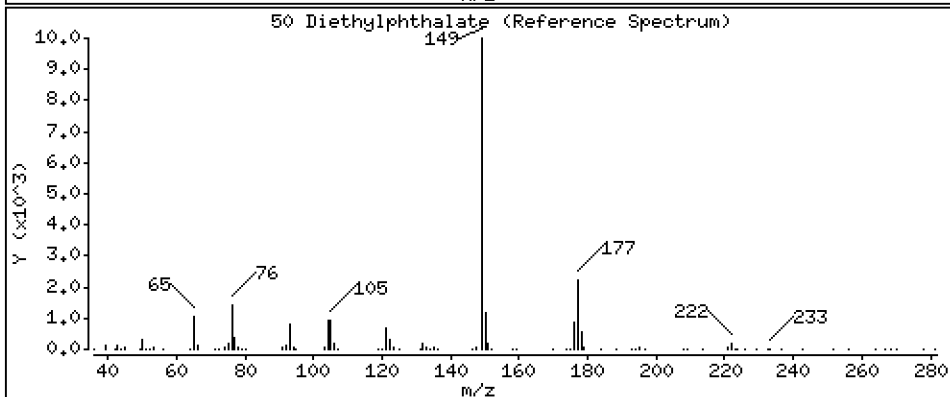
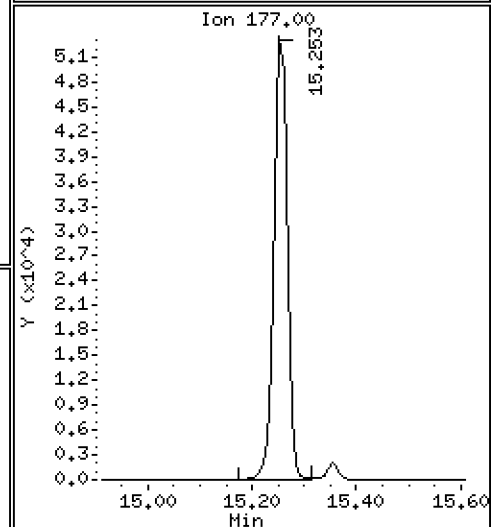
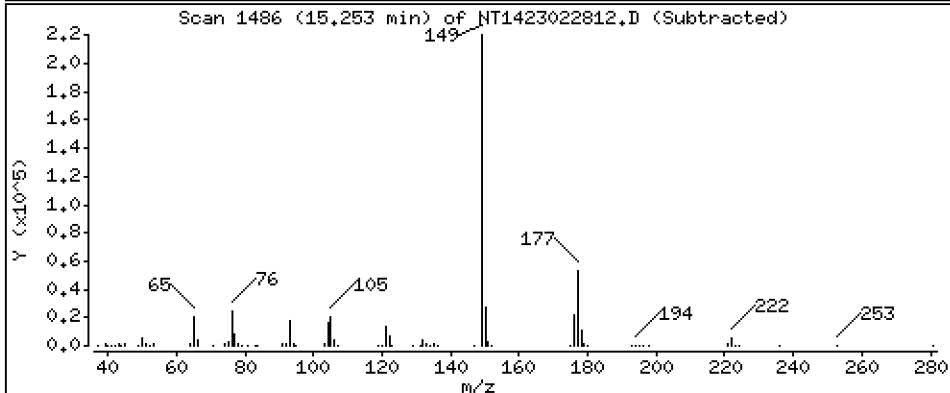
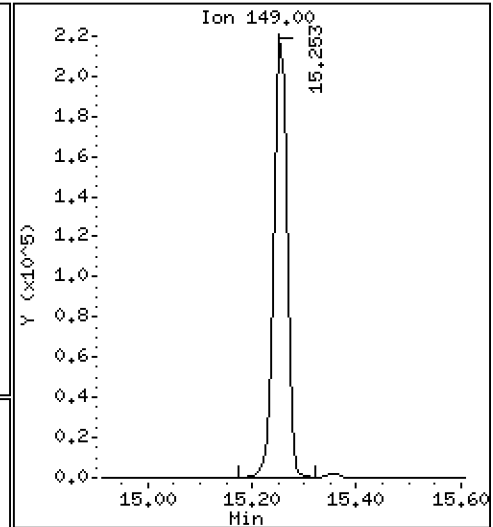
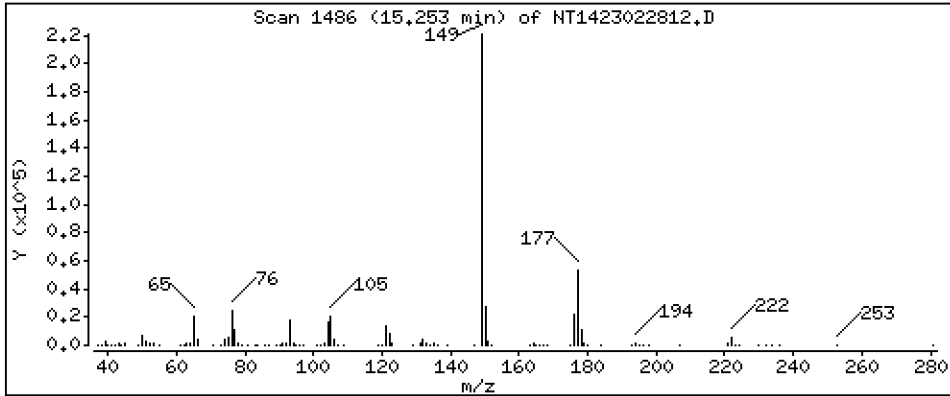
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 5,420 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

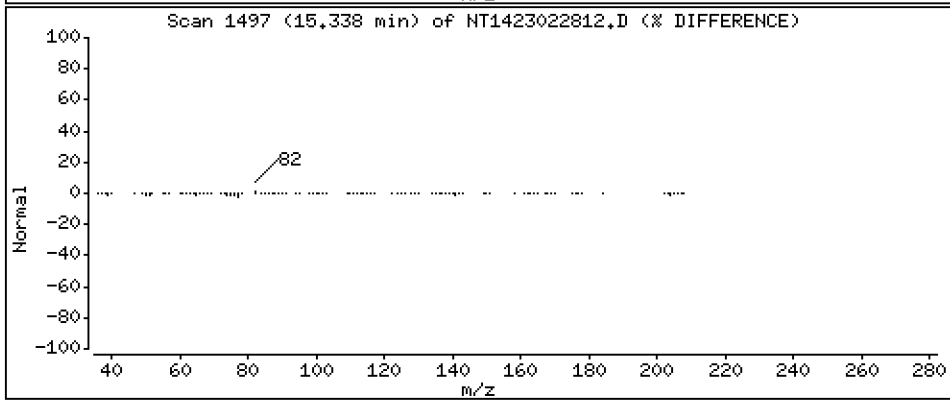
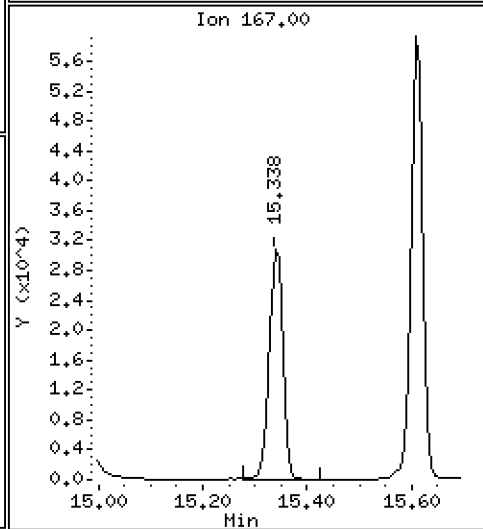
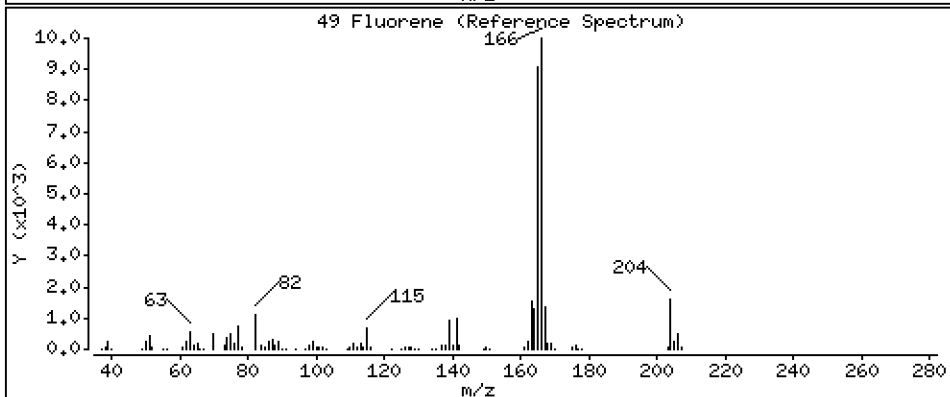
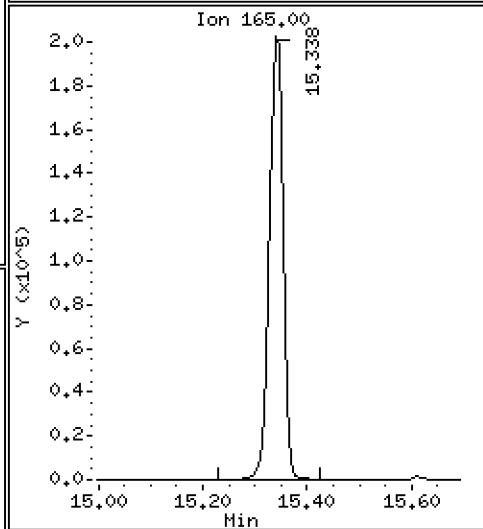
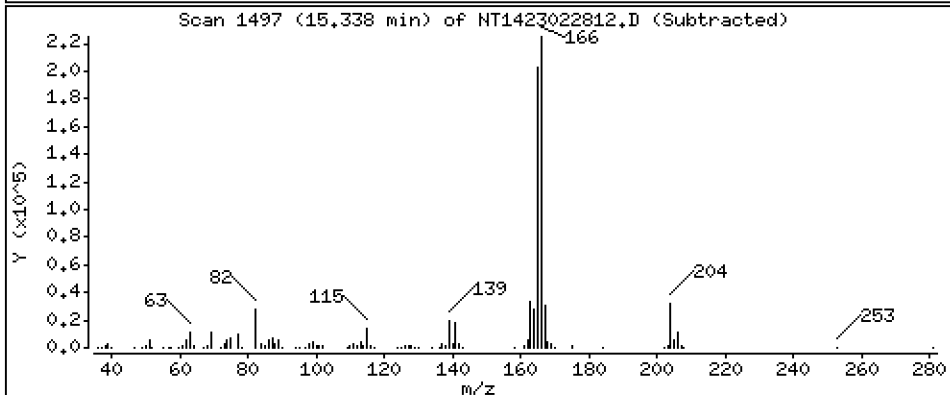
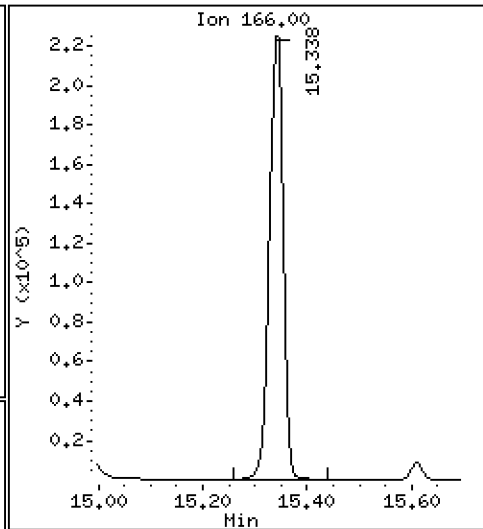
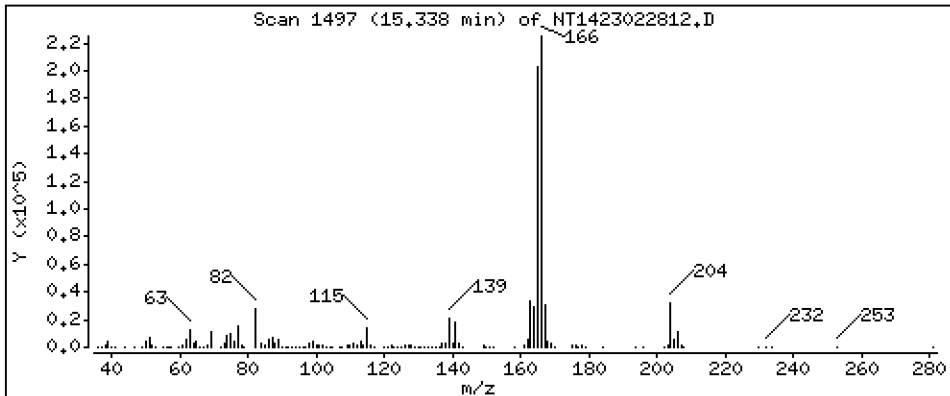
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 4,793 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

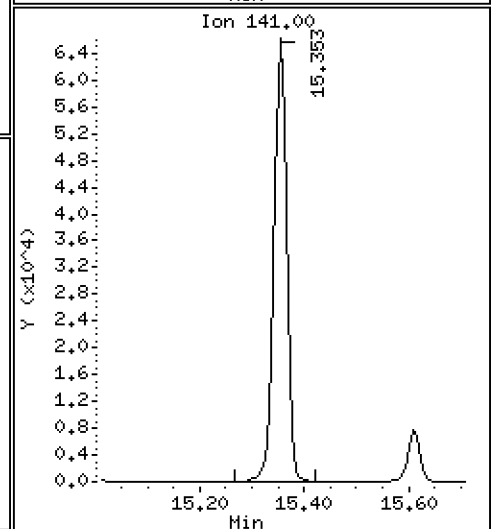
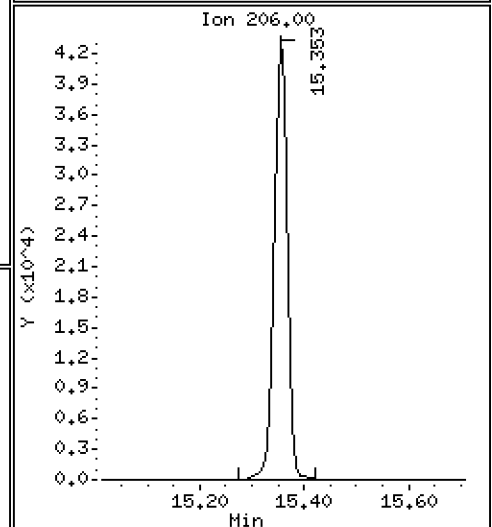
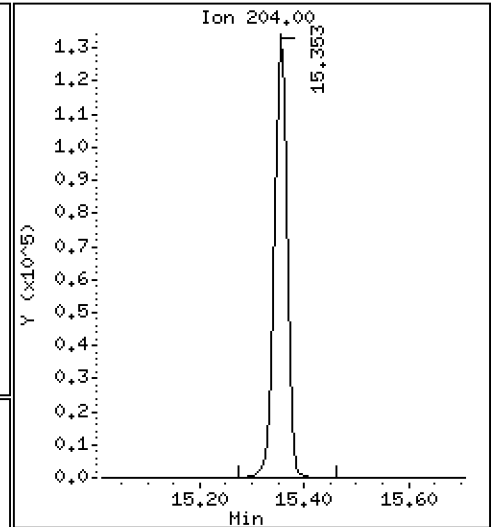
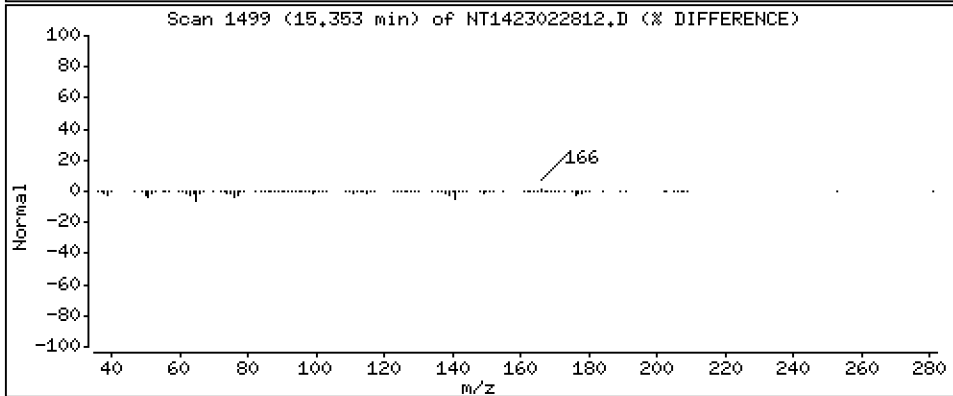
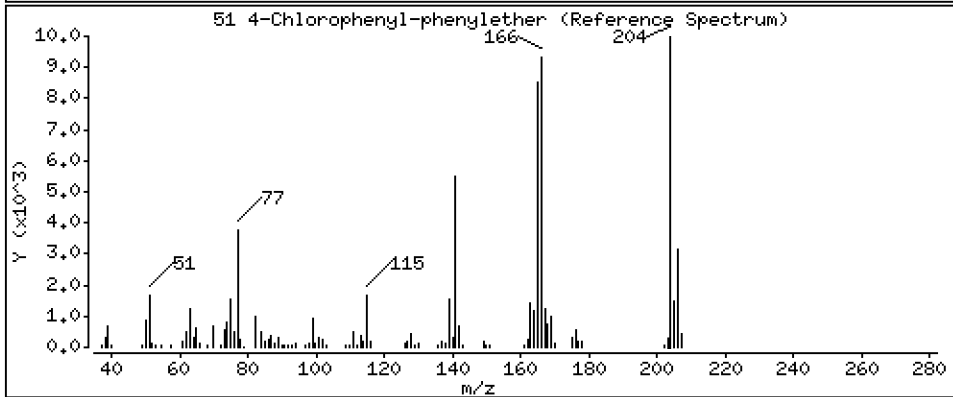
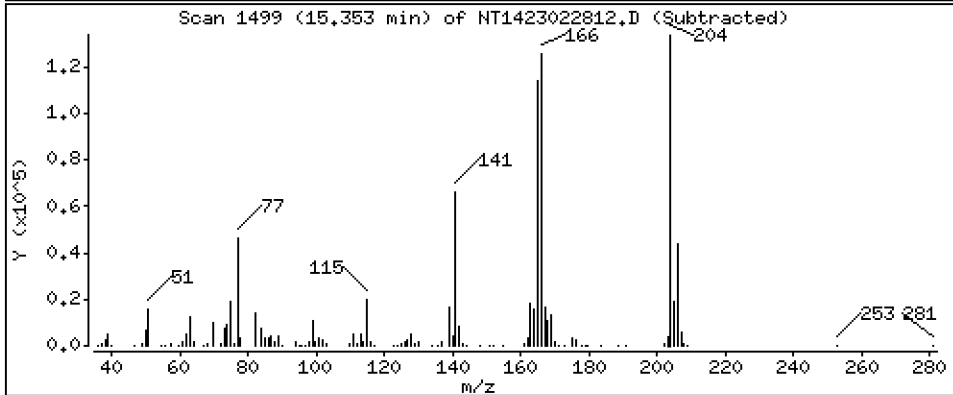
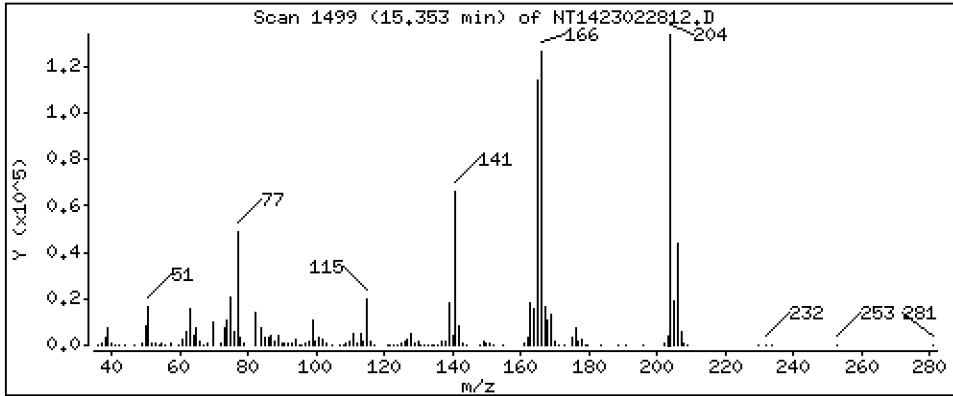
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 4,884 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

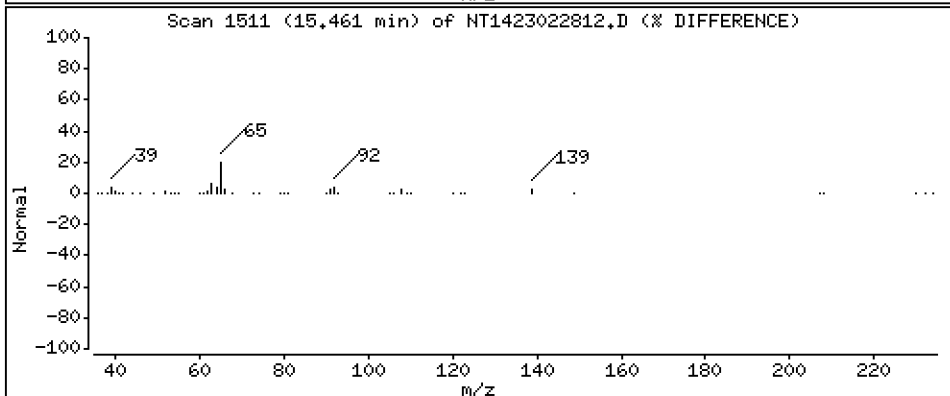
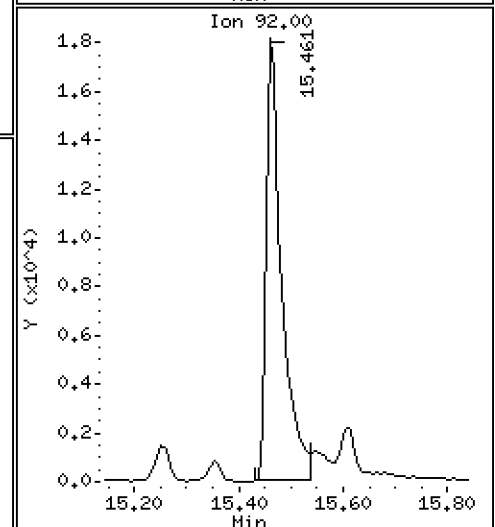
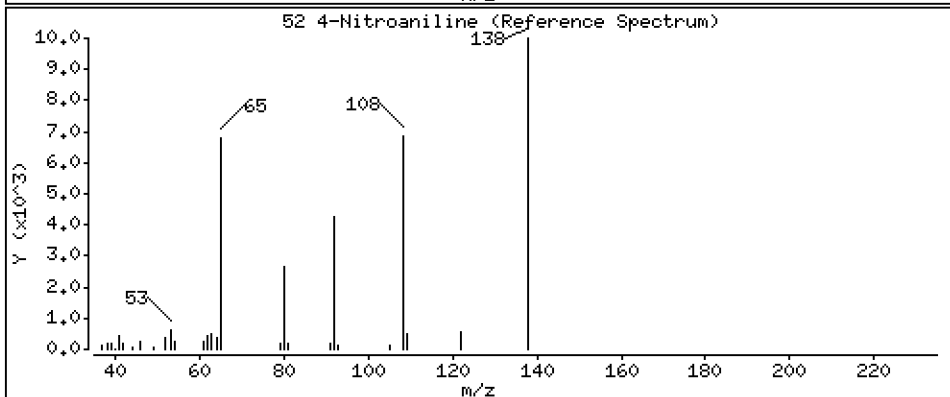
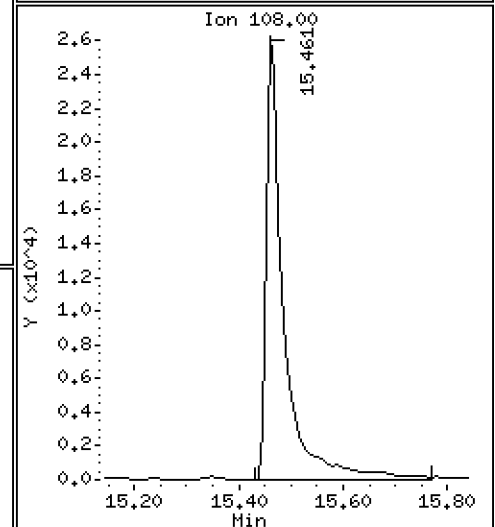
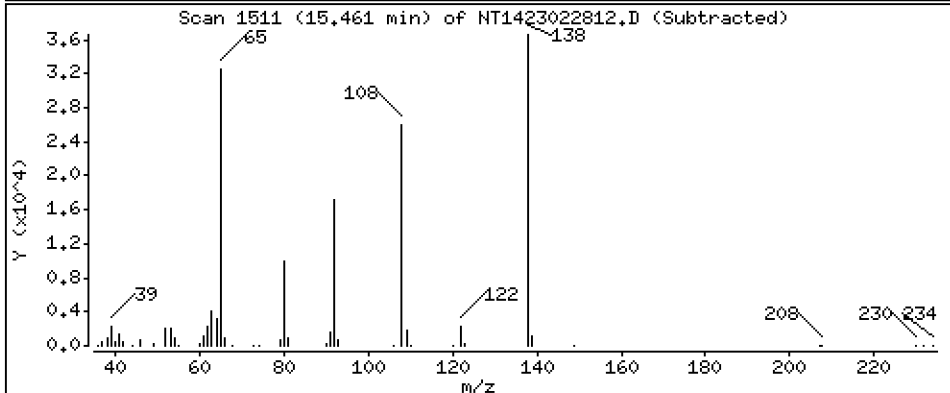
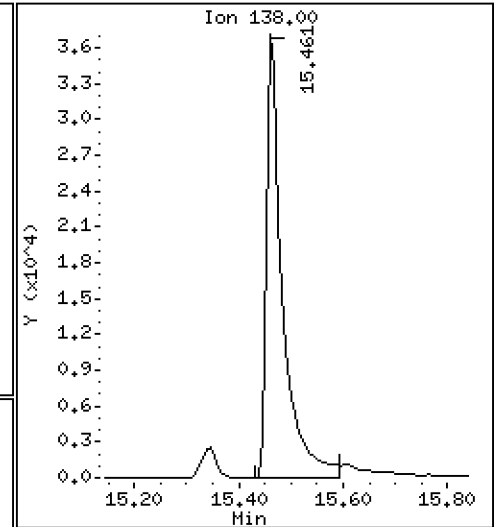
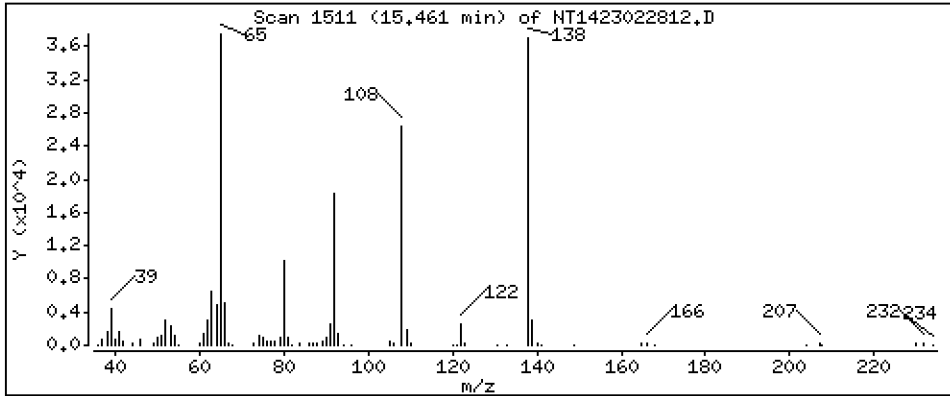
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

52 4-Nitroaniline

Concentration: 4,560 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

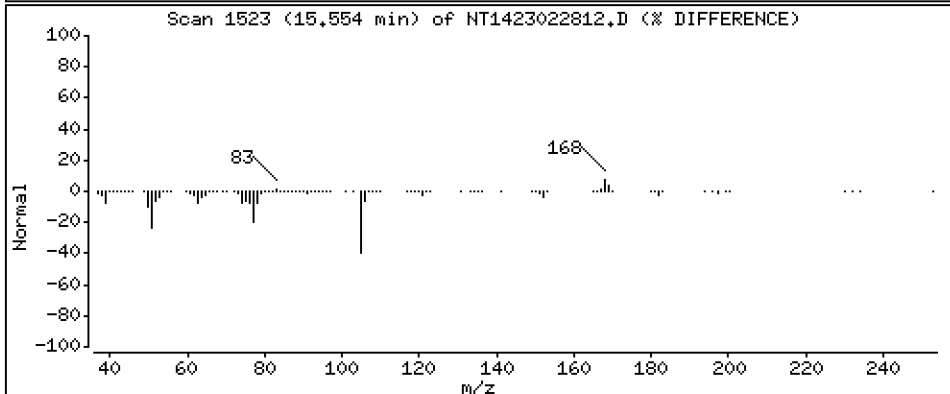
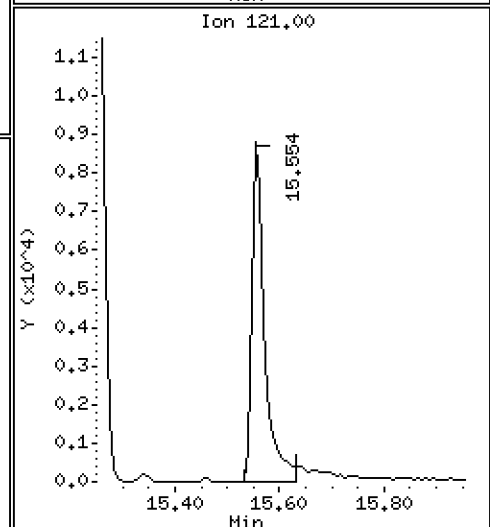
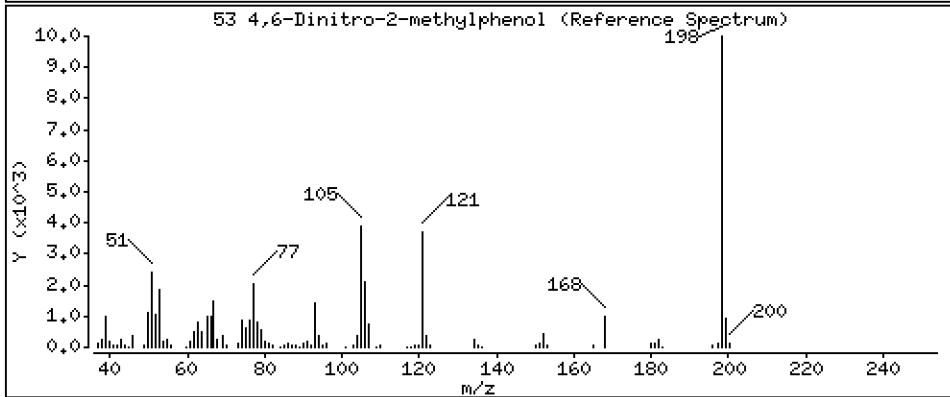
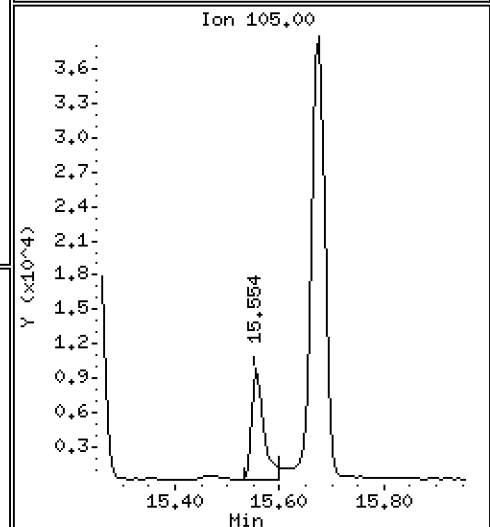
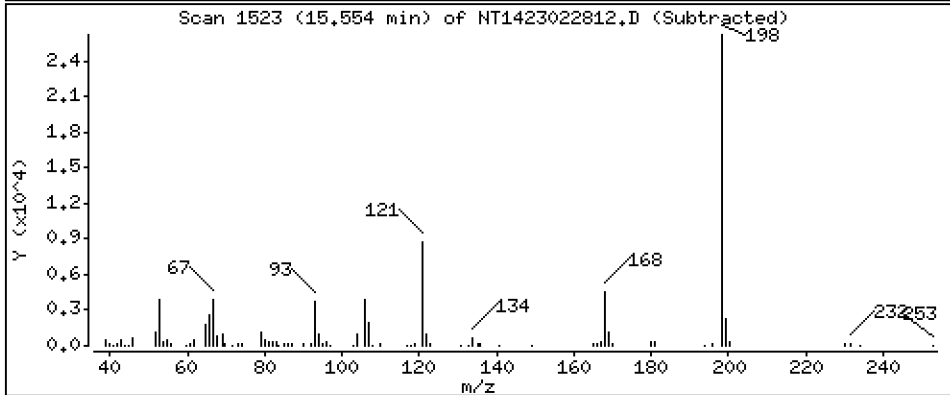
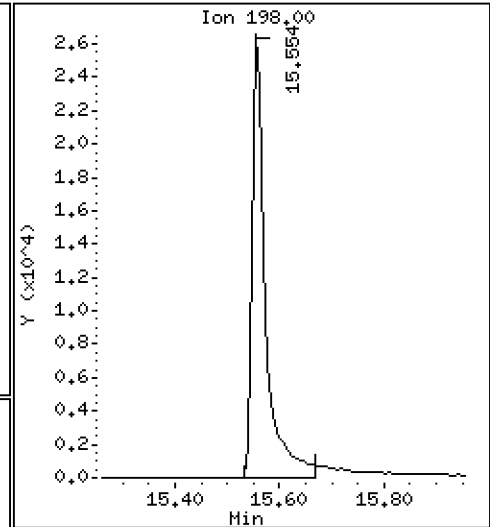
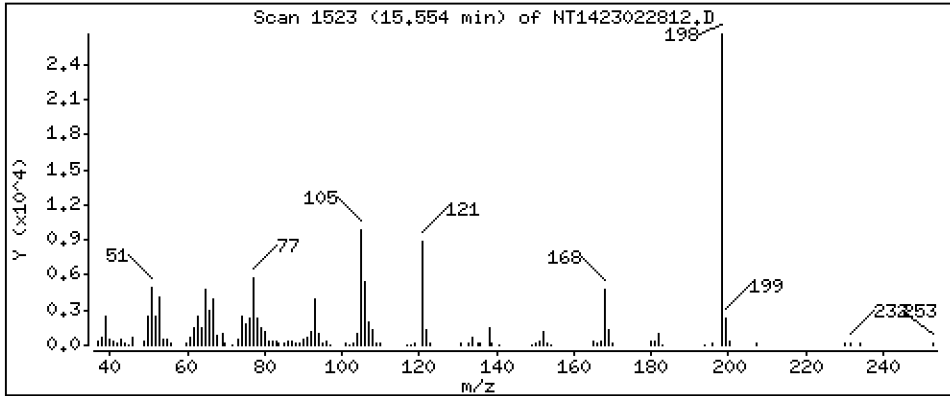
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

53 4,6-Dinitro-2-methylphenol

Concentration: 3,234 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

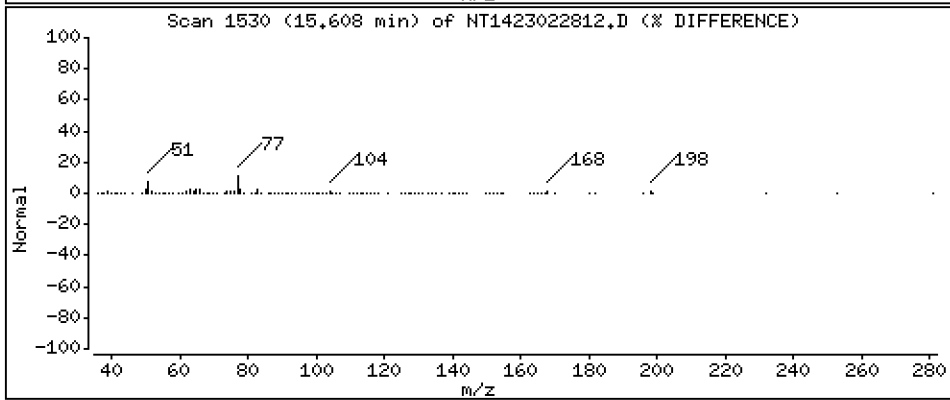
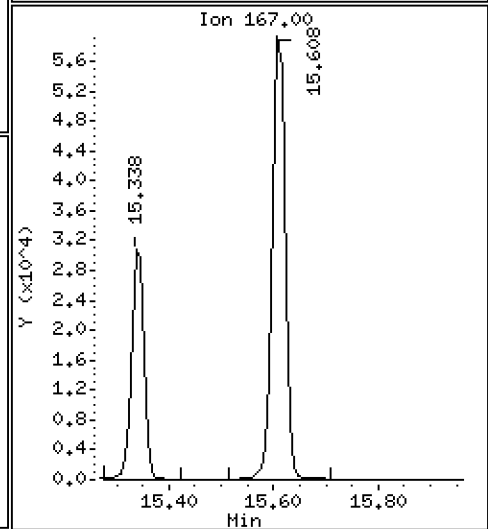
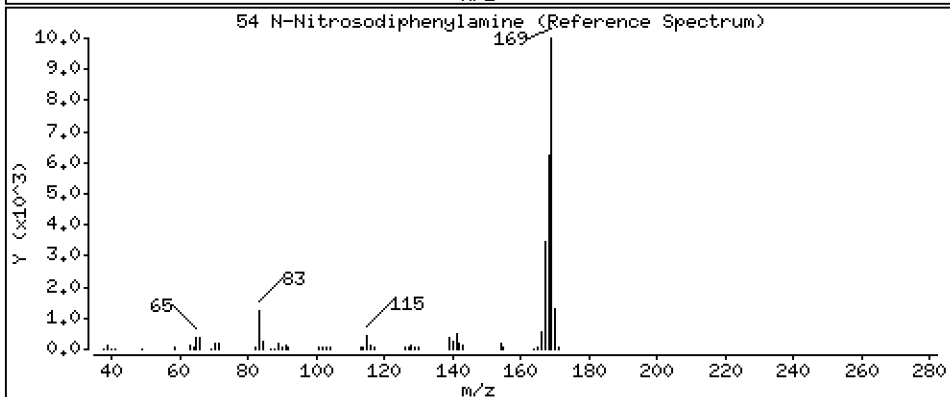
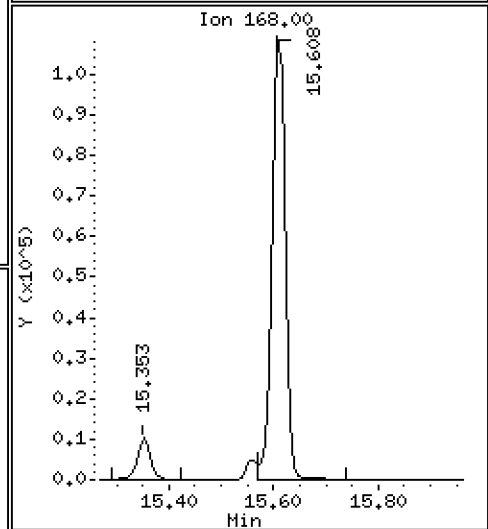
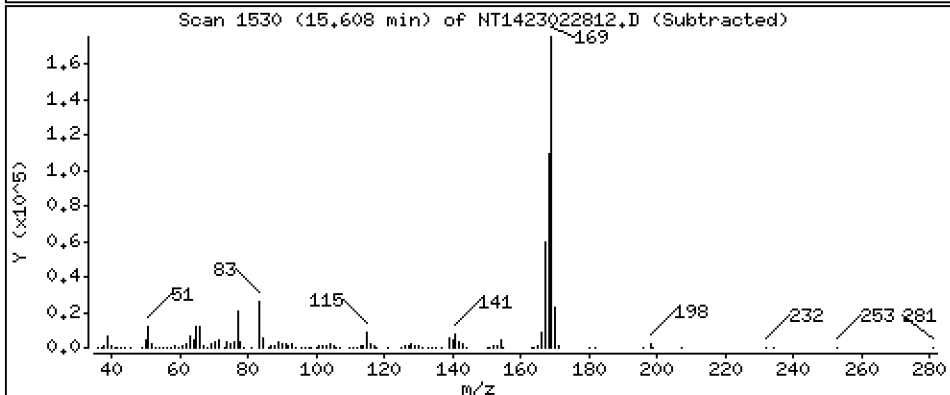
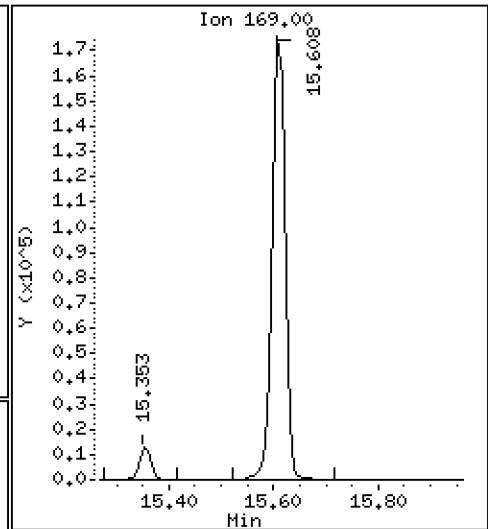
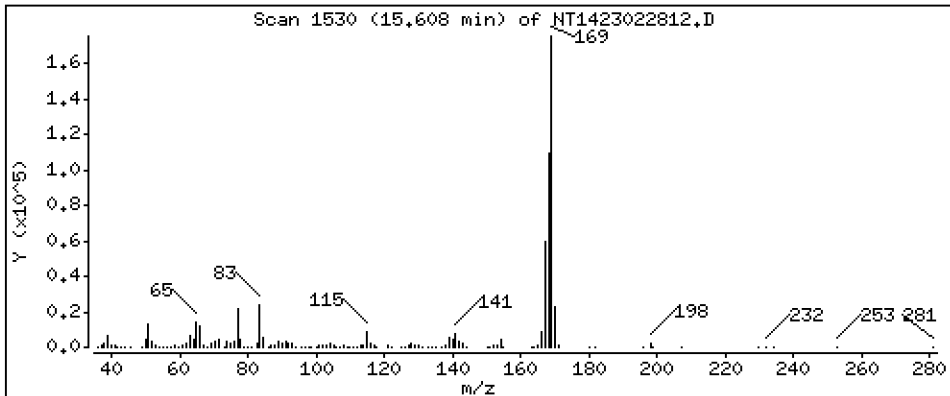
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

54 N-Nitrosodiphenylamine

Concentration: 4,980 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

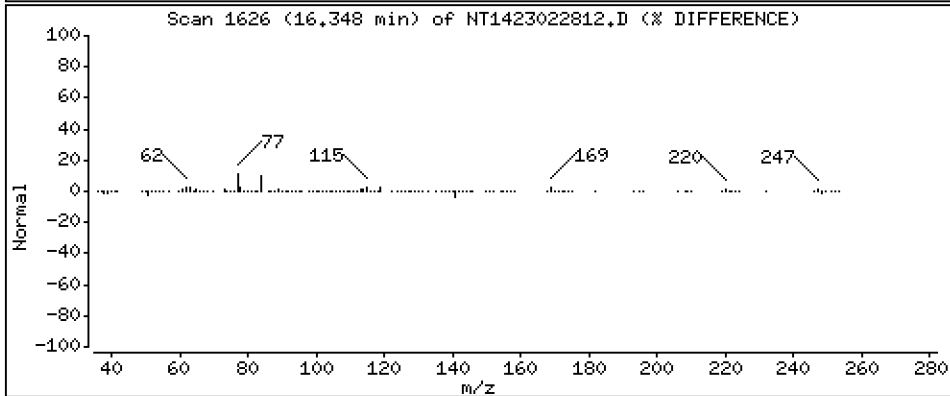
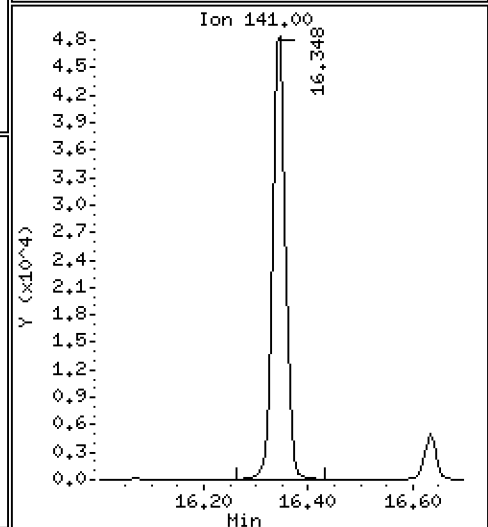
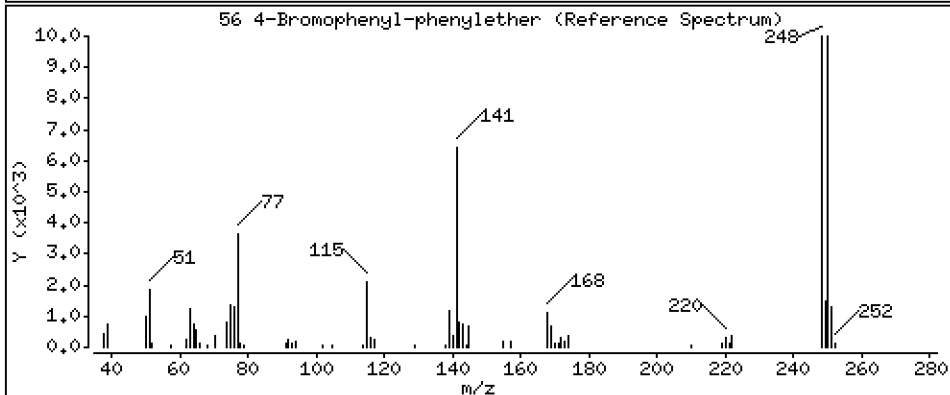
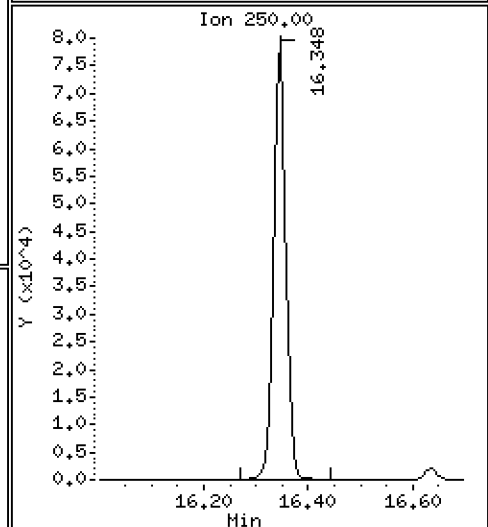
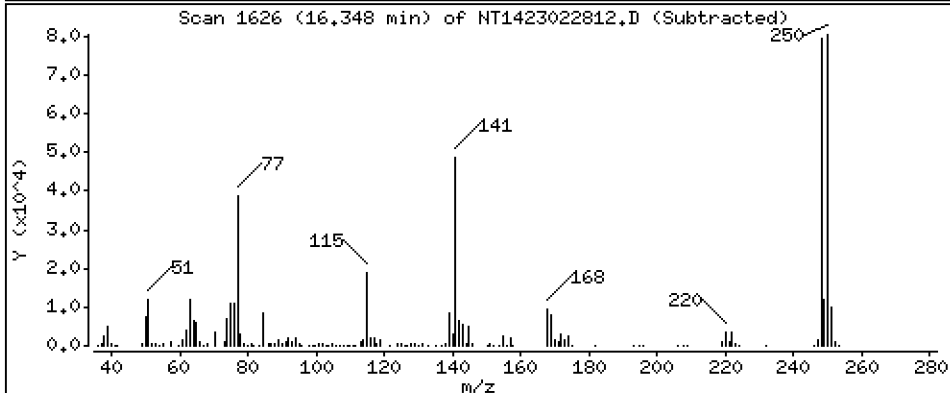
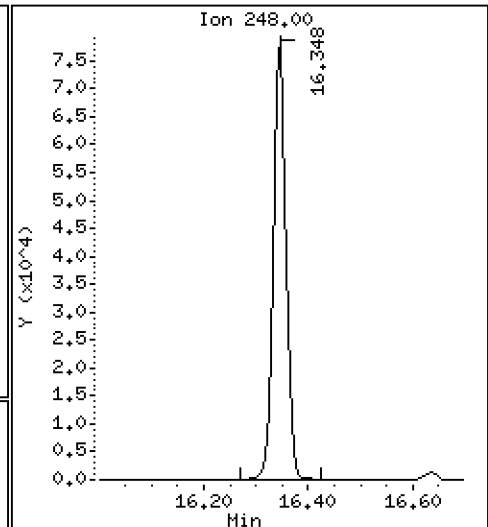
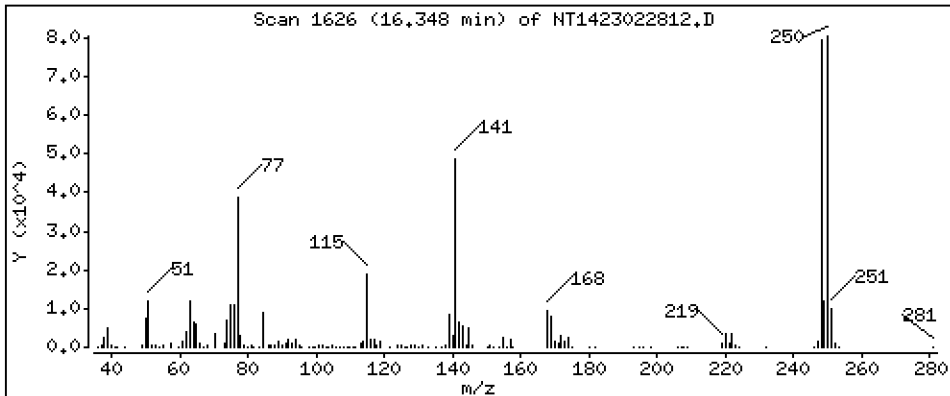
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 5,152 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

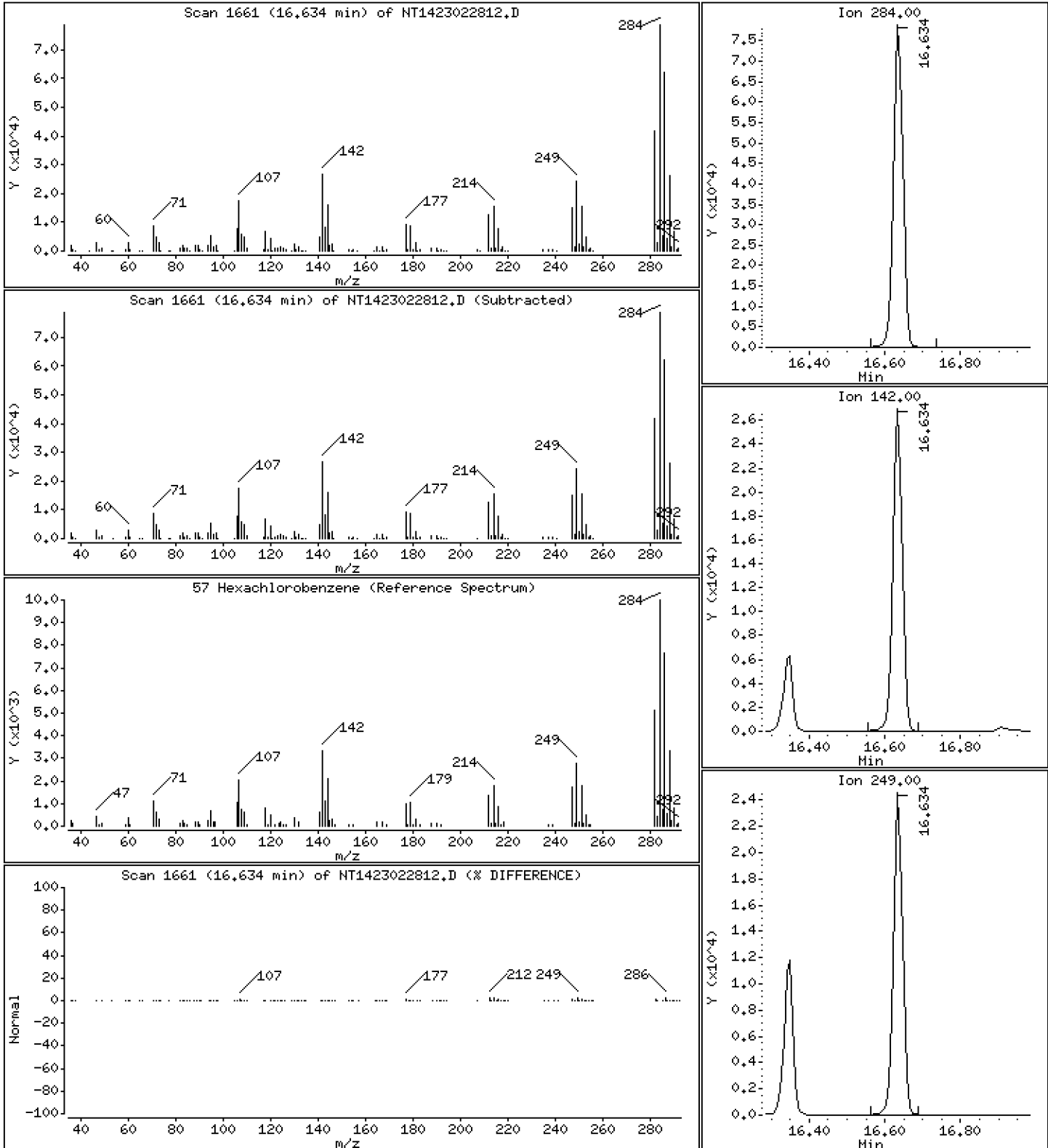
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

57 Hexachlorobenzene

Concentration: 4.790 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

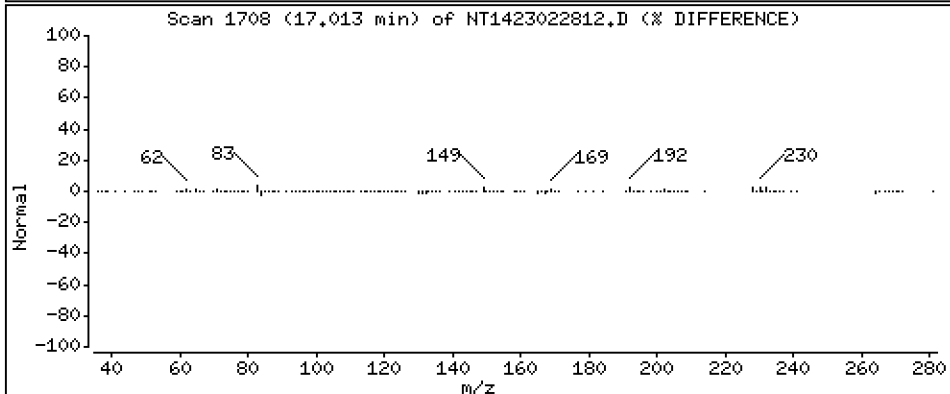
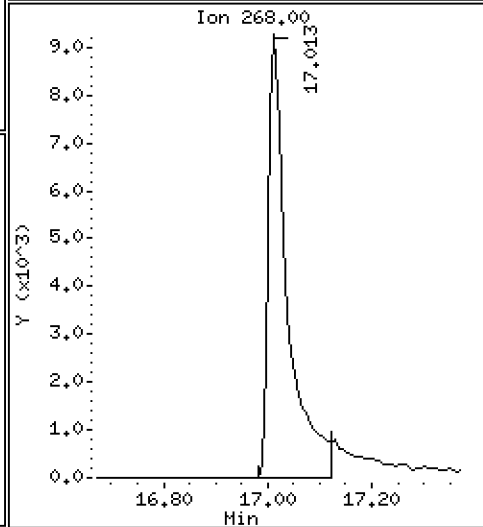
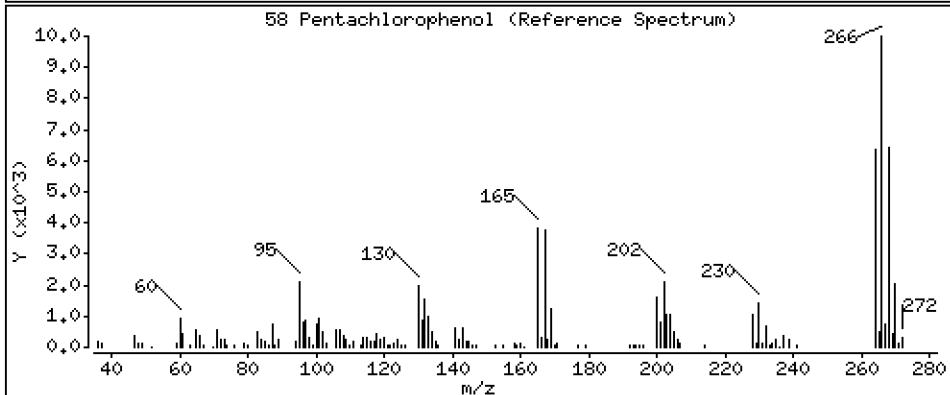
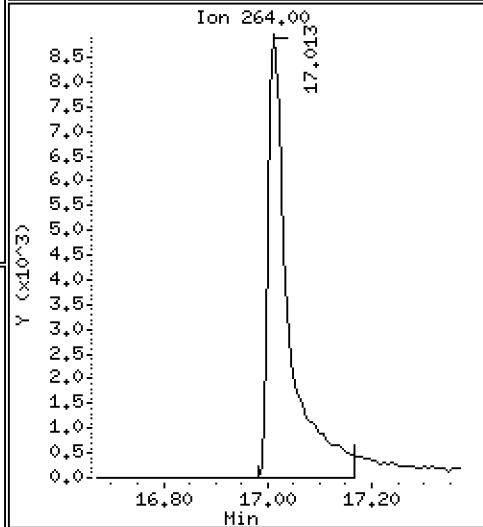
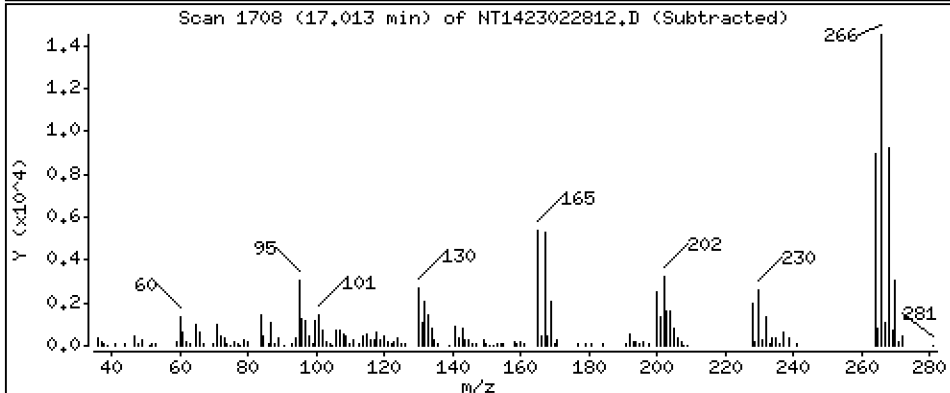
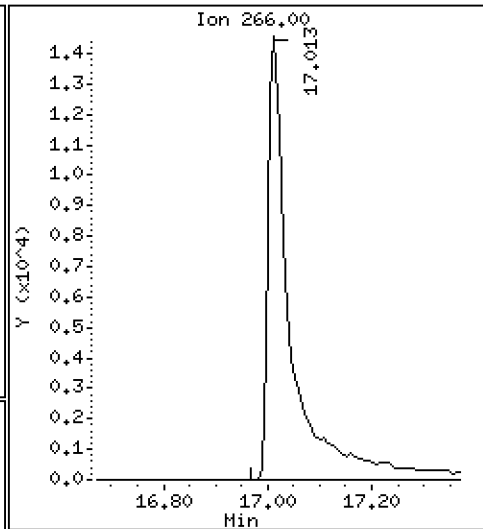
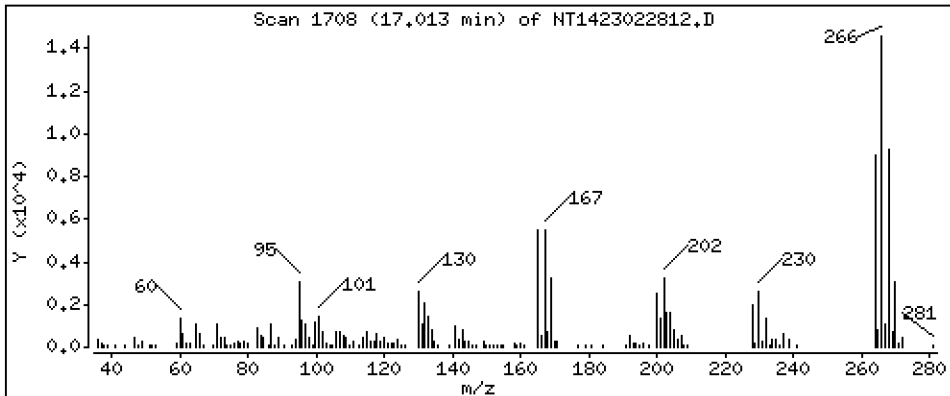
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 3,524 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

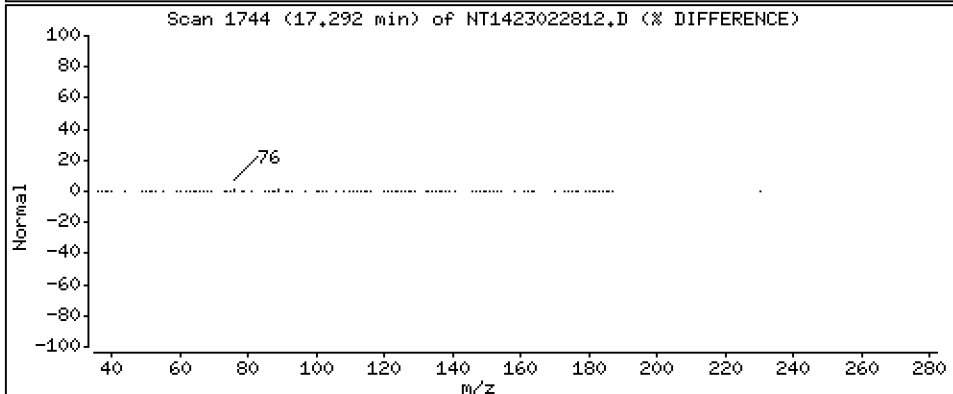
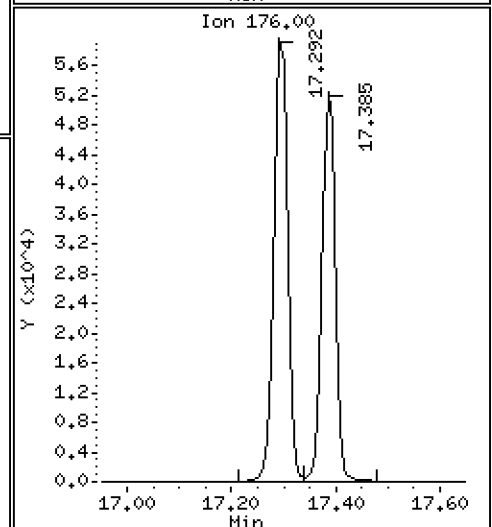
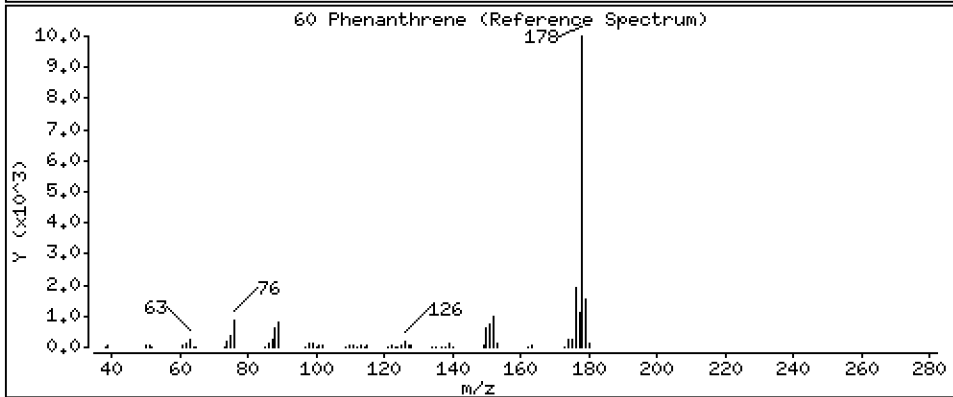
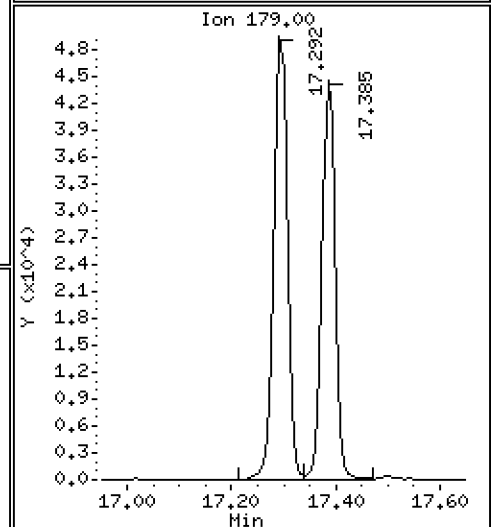
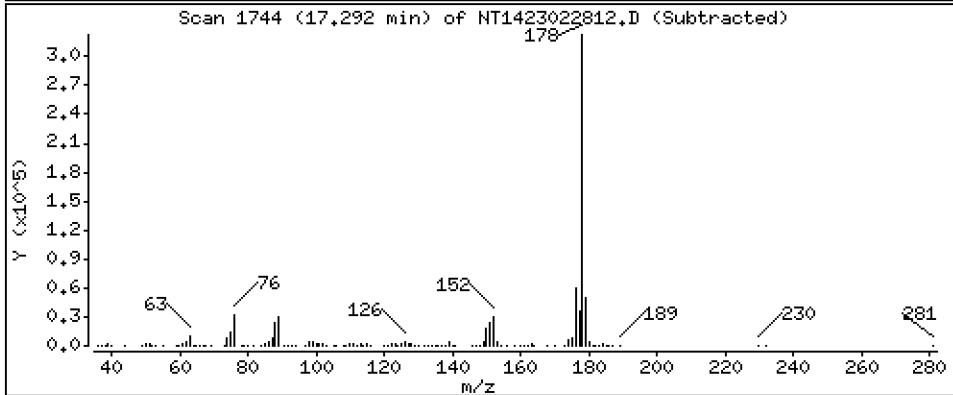
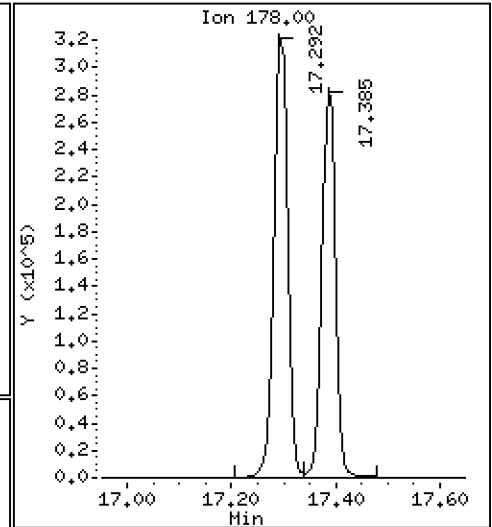
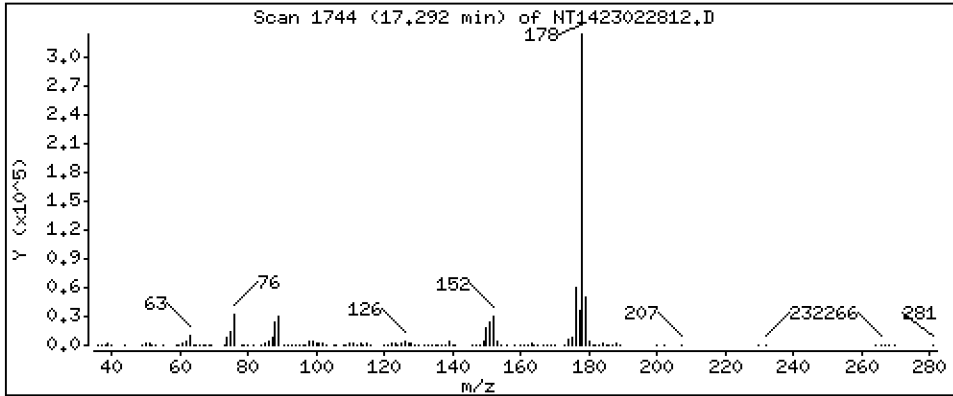
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 4,615 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

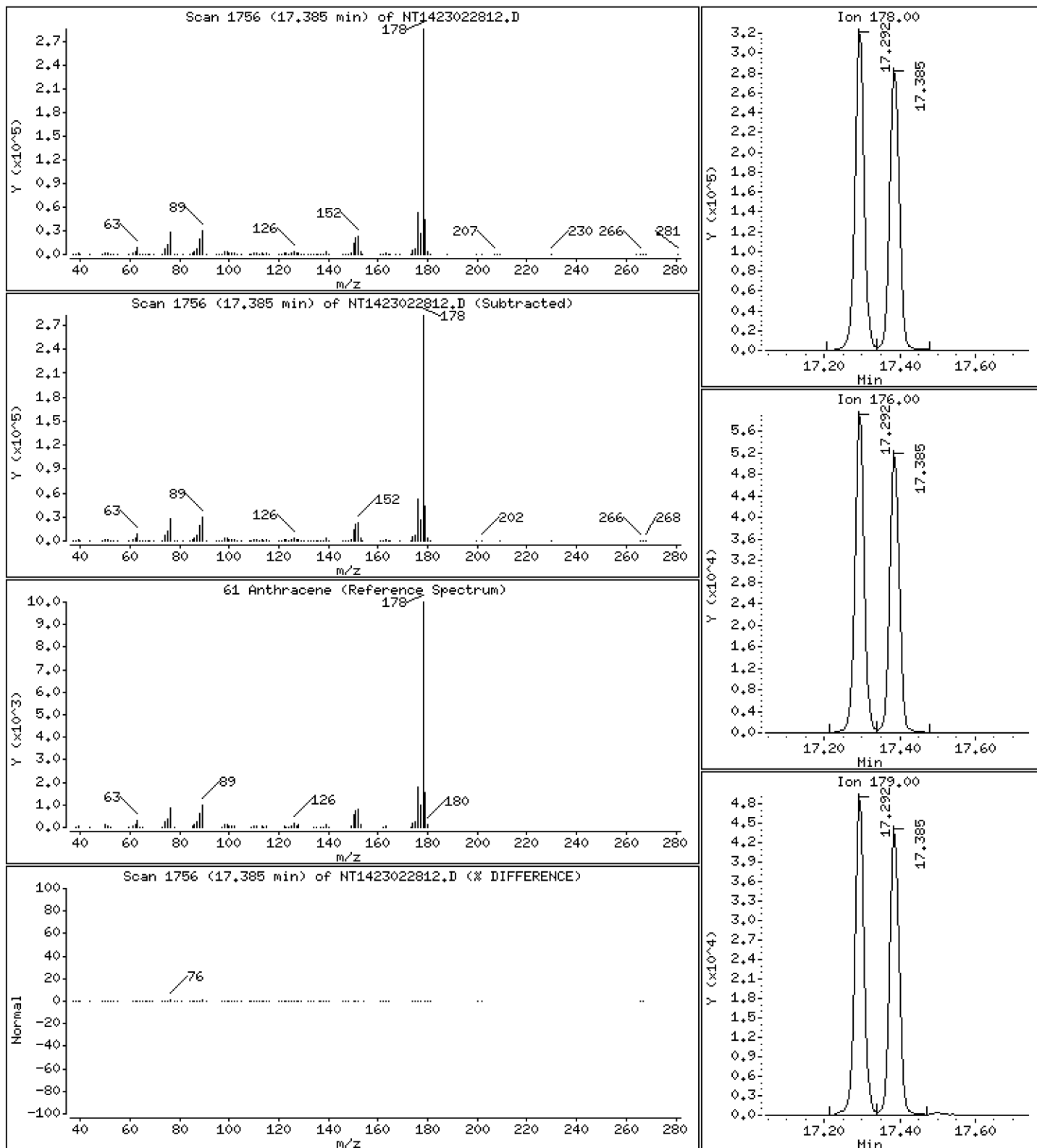
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 4,224 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

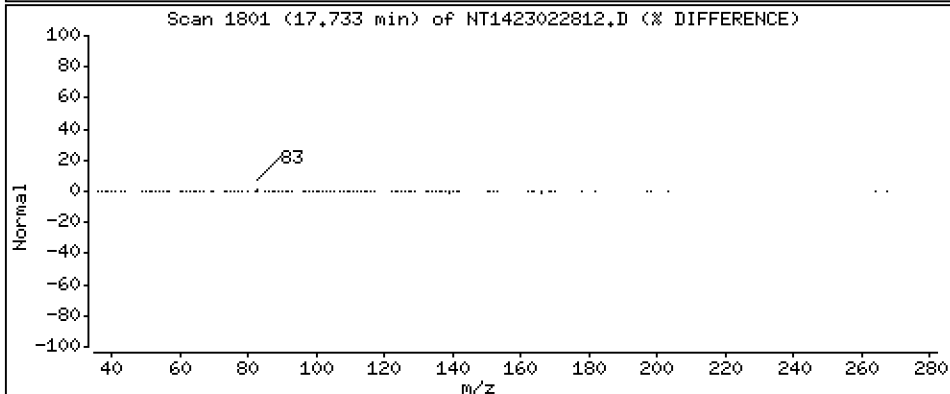
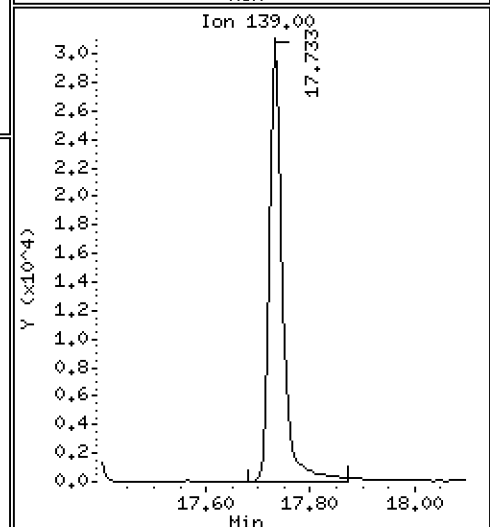
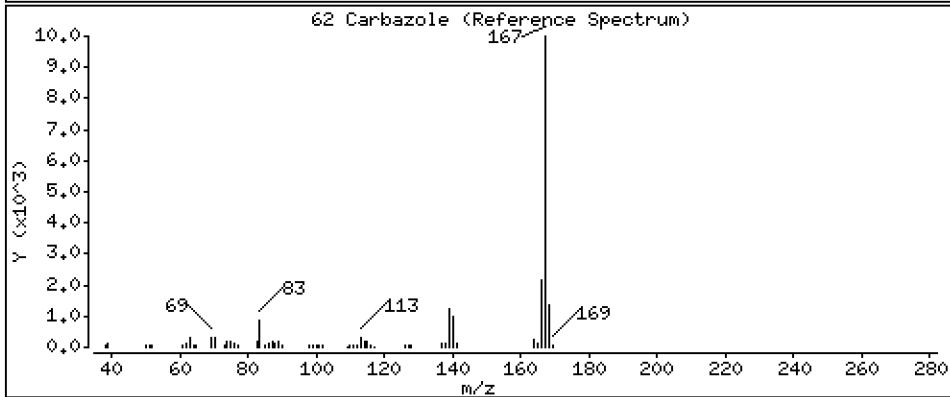
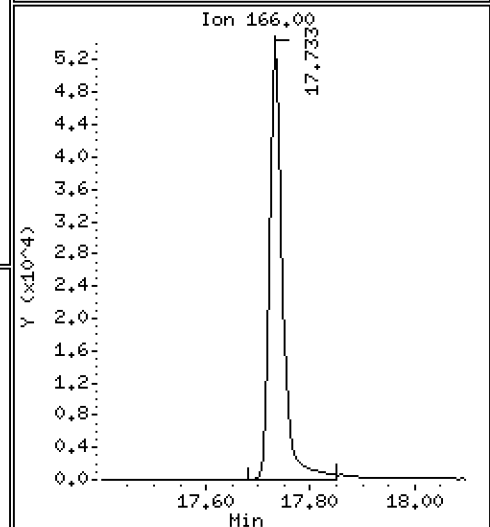
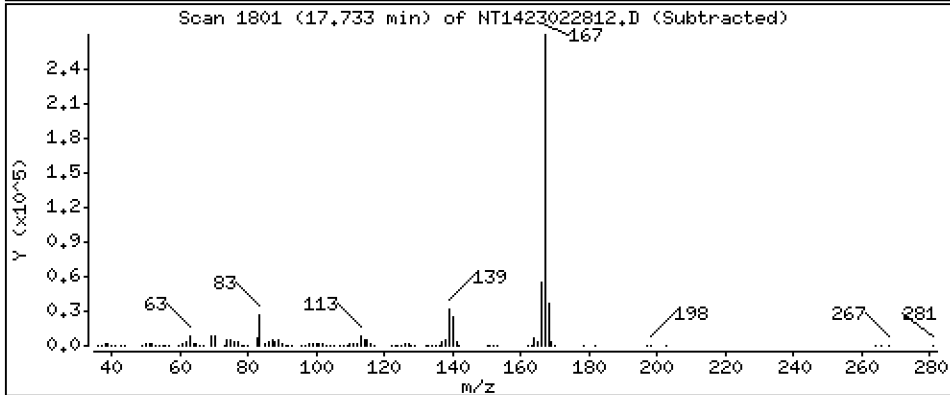
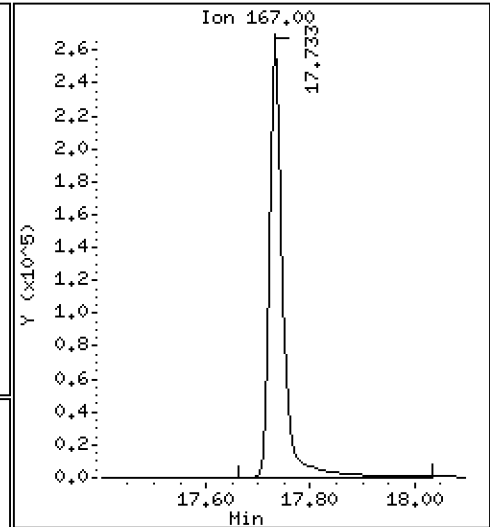
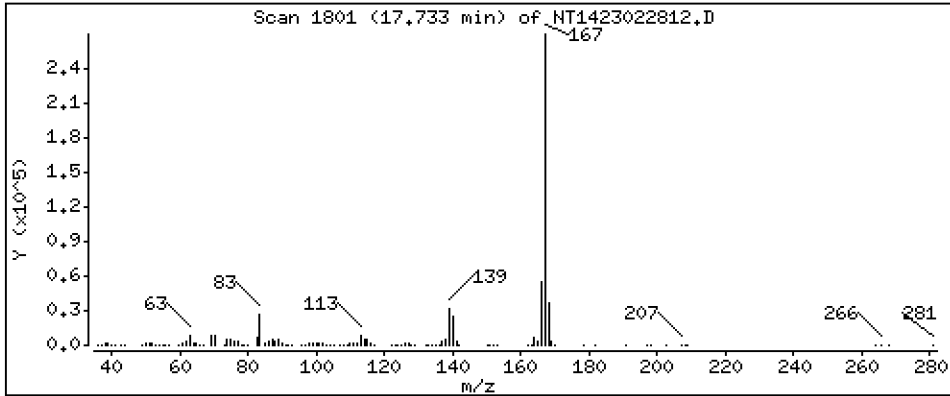
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 4,776 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

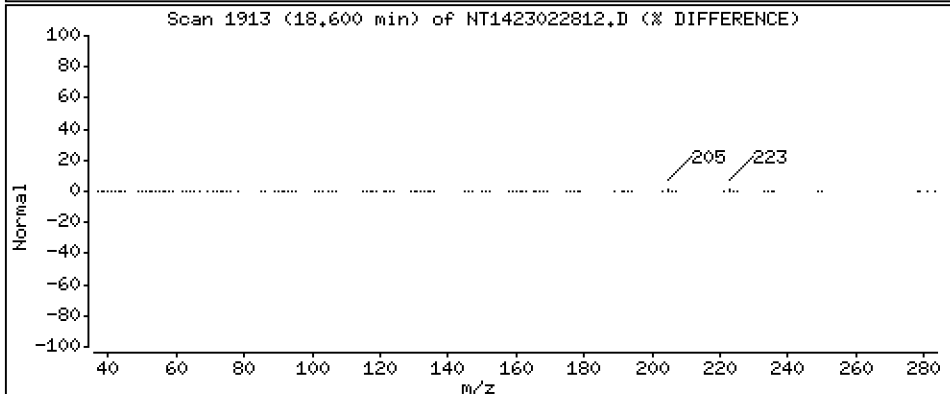
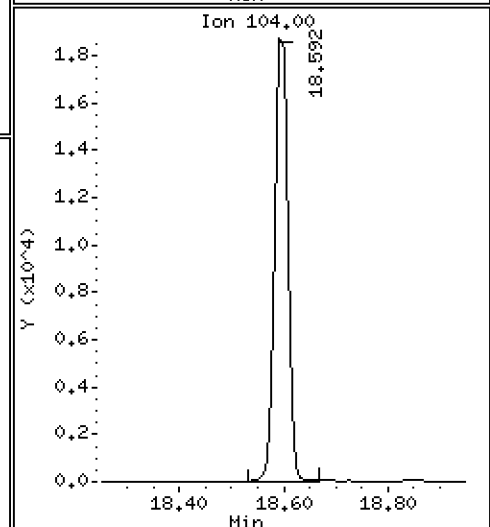
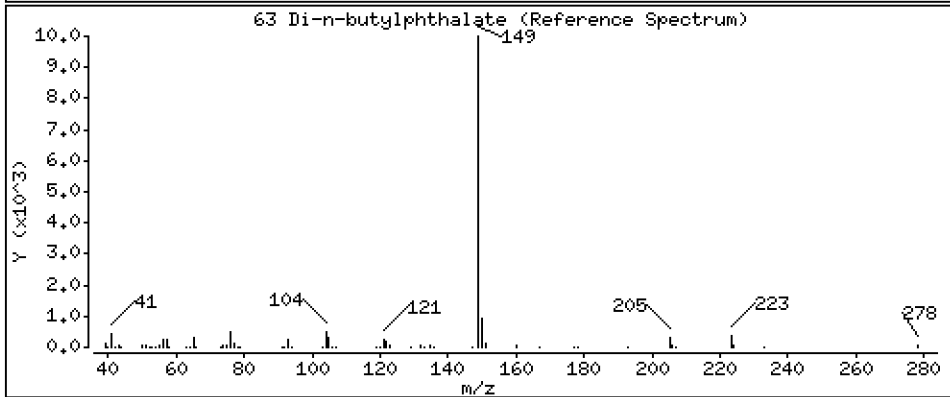
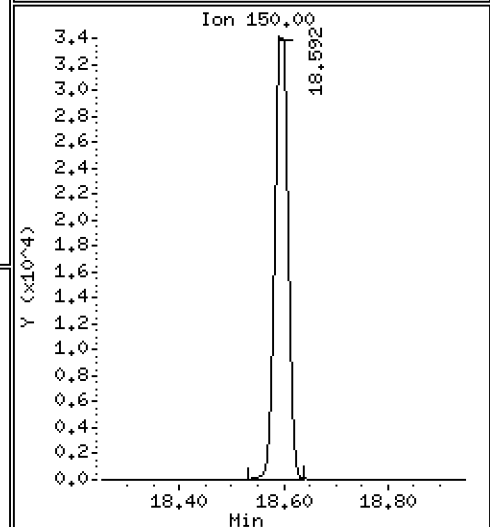
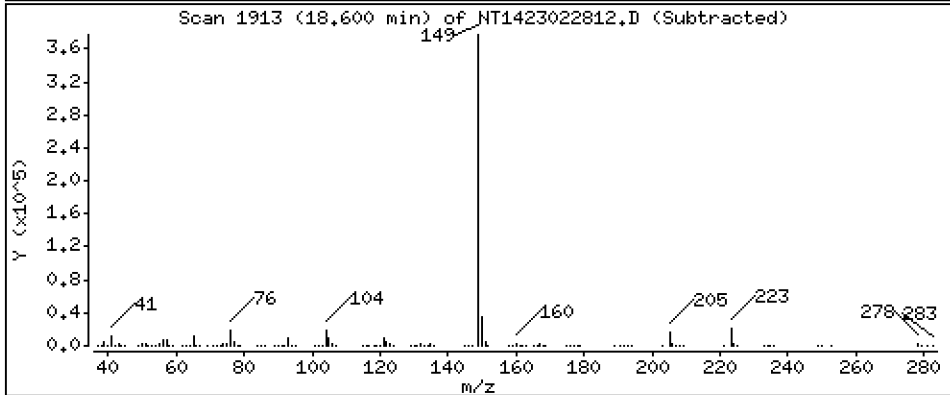
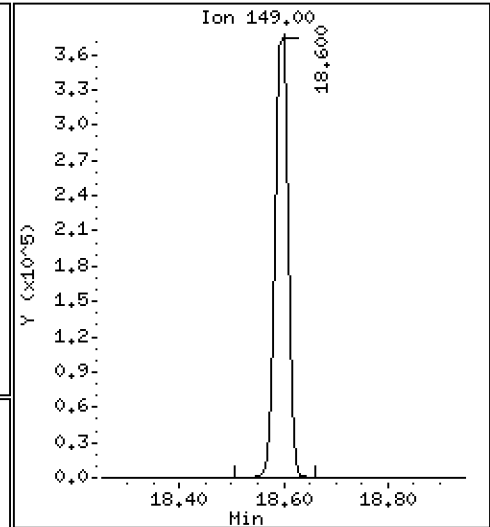
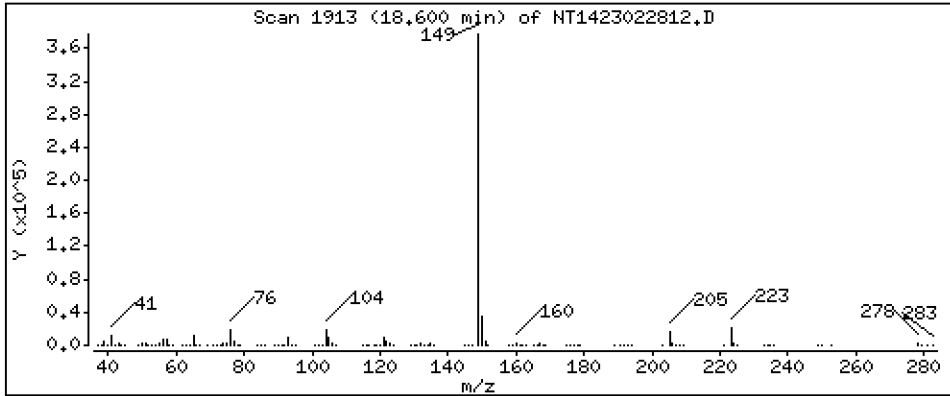
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 4,819 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

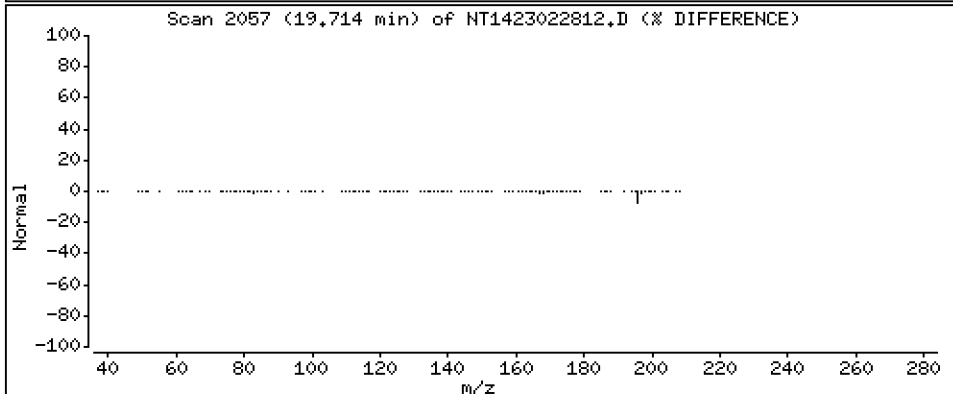
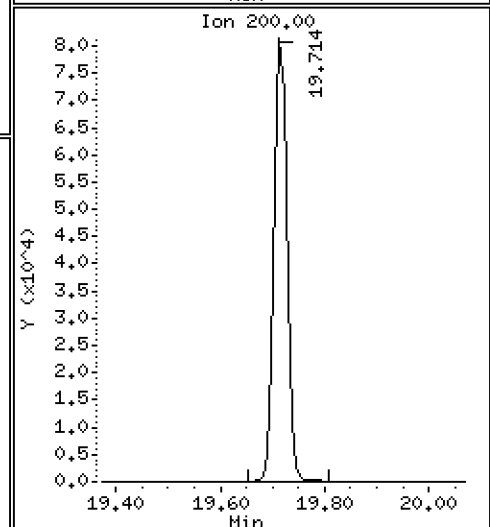
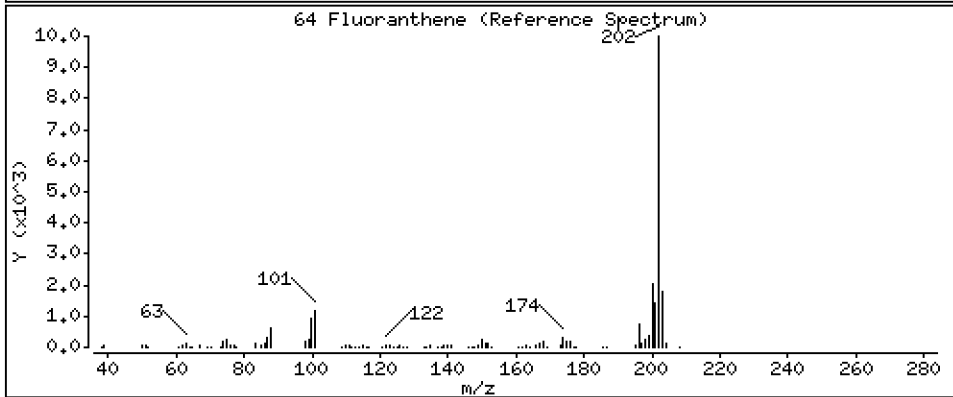
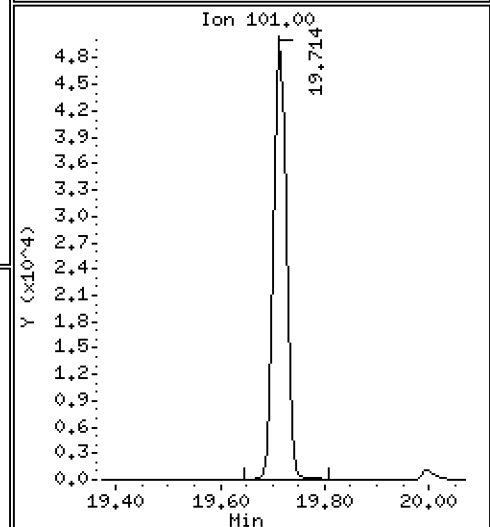
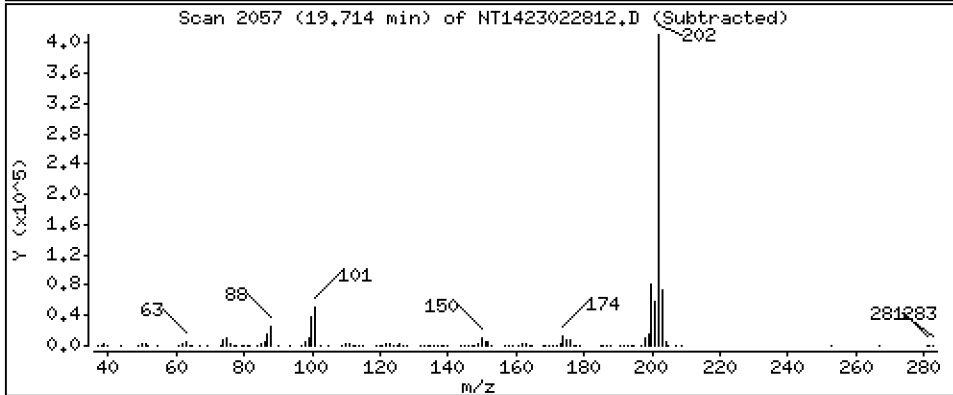
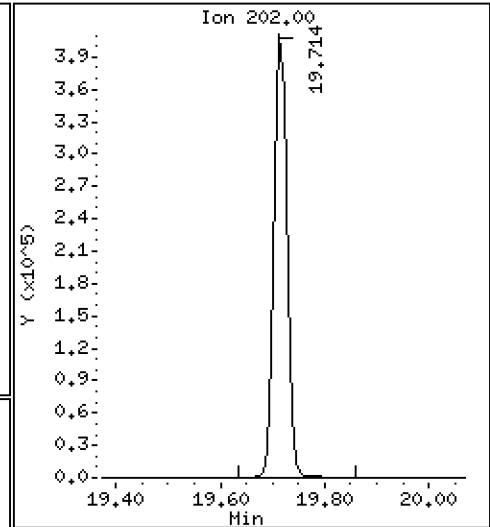
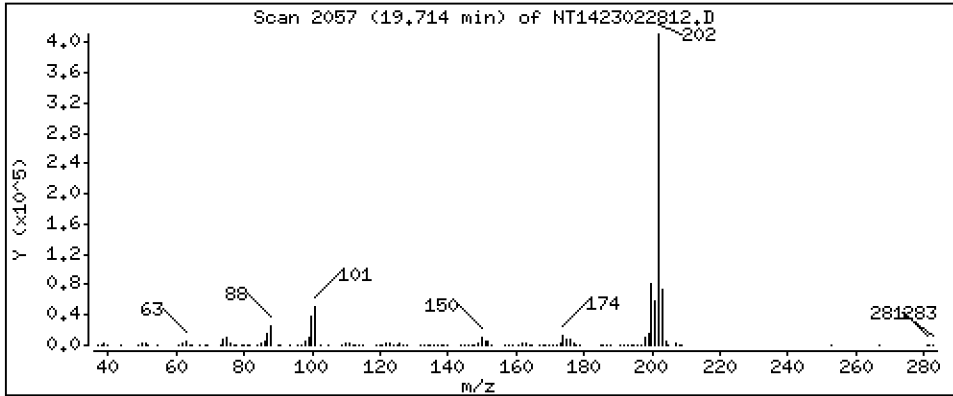
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 5,104 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

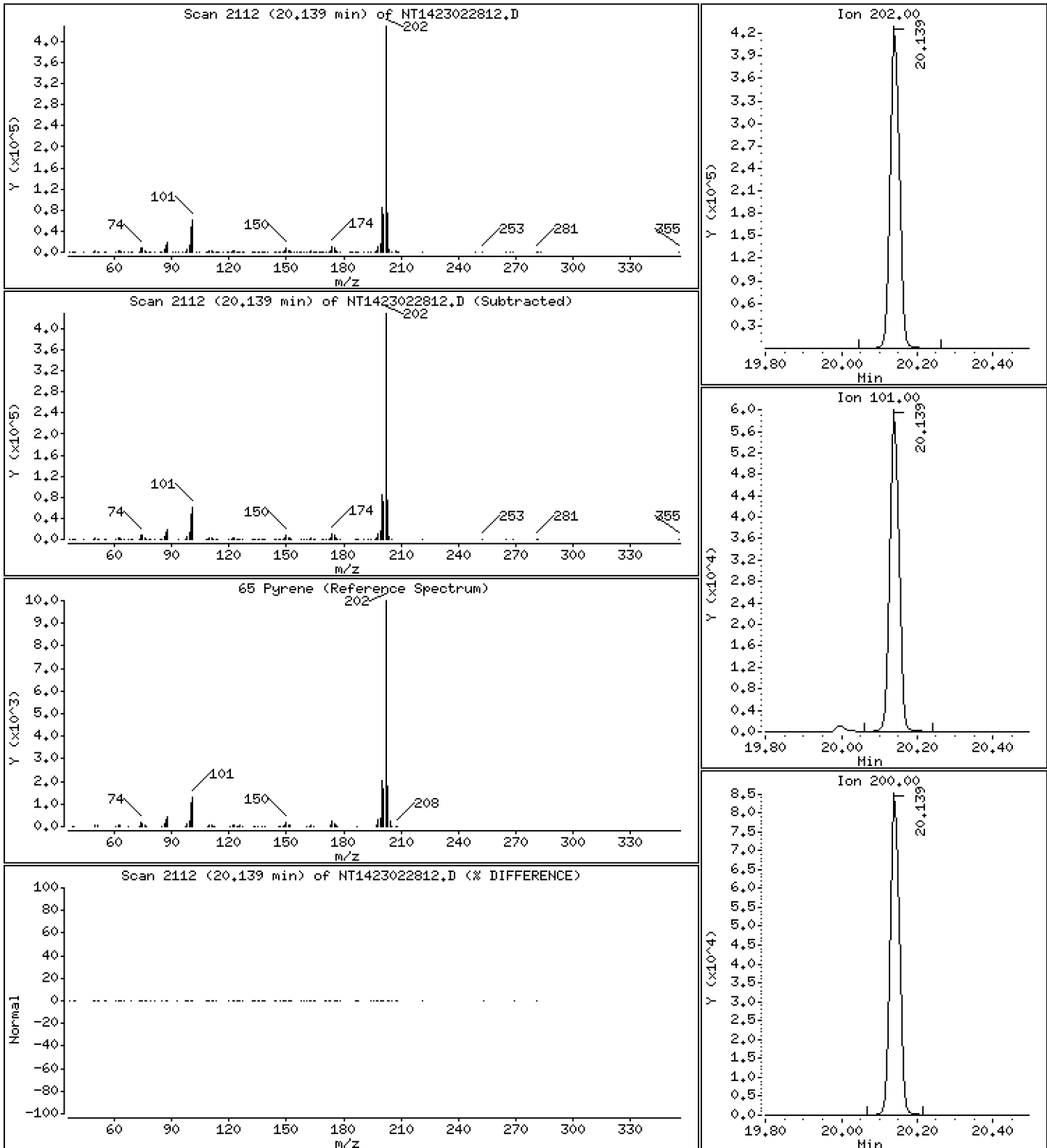
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 4,957 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

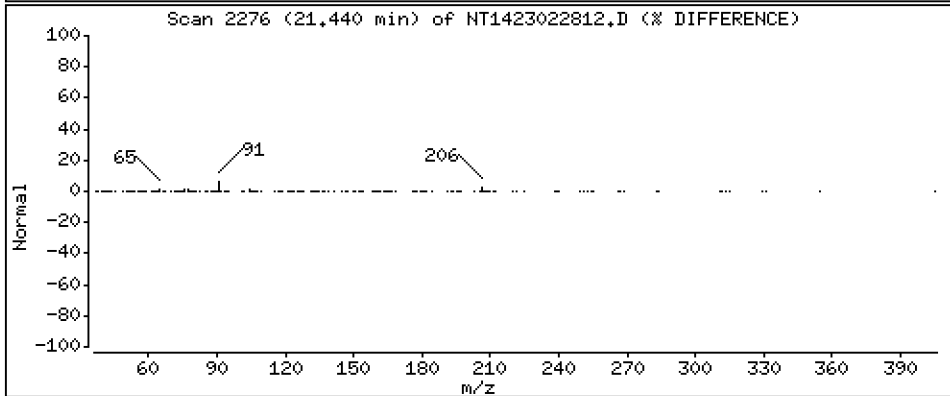
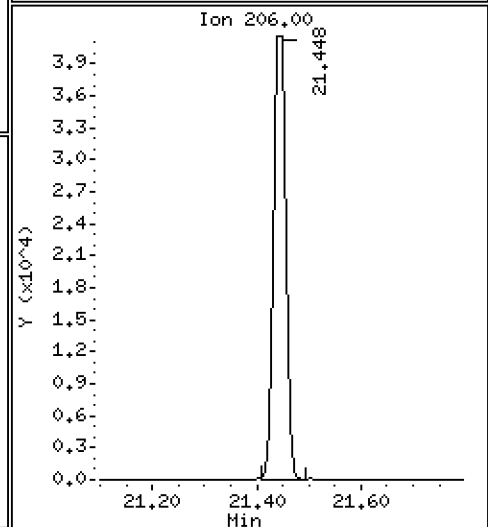
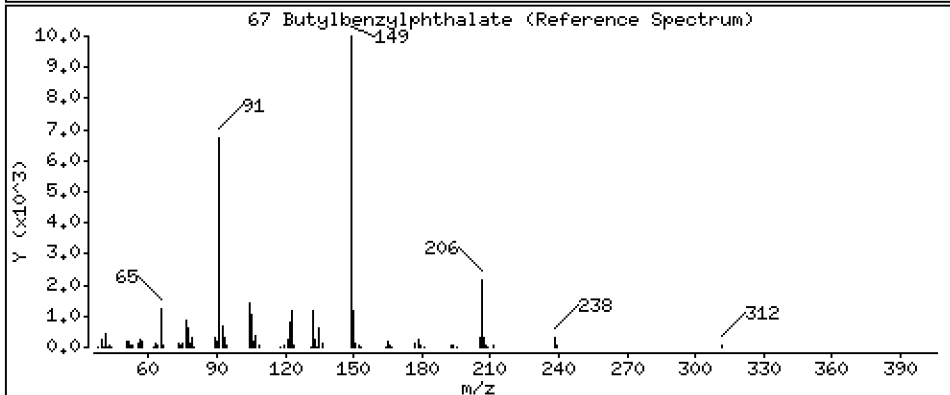
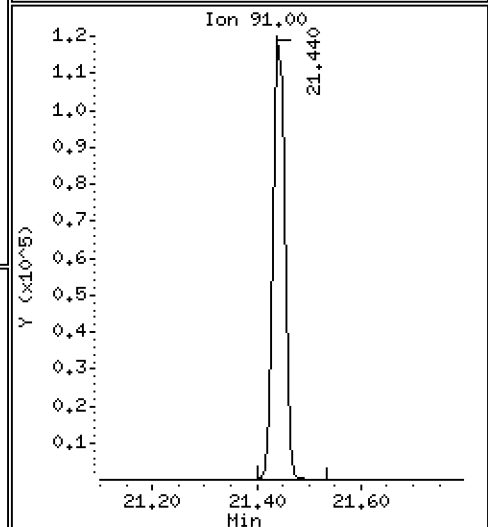
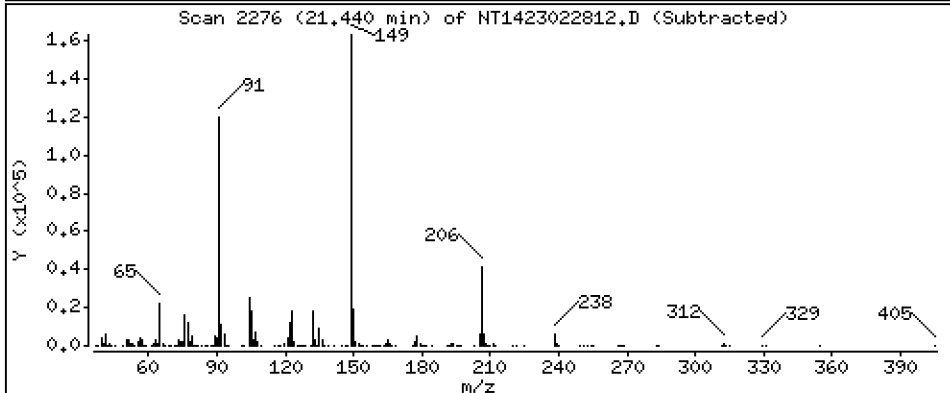
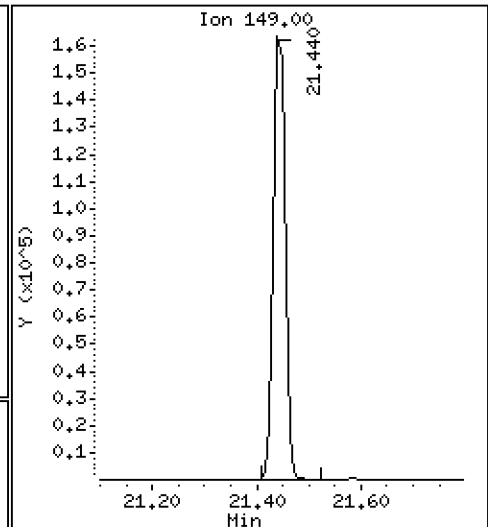
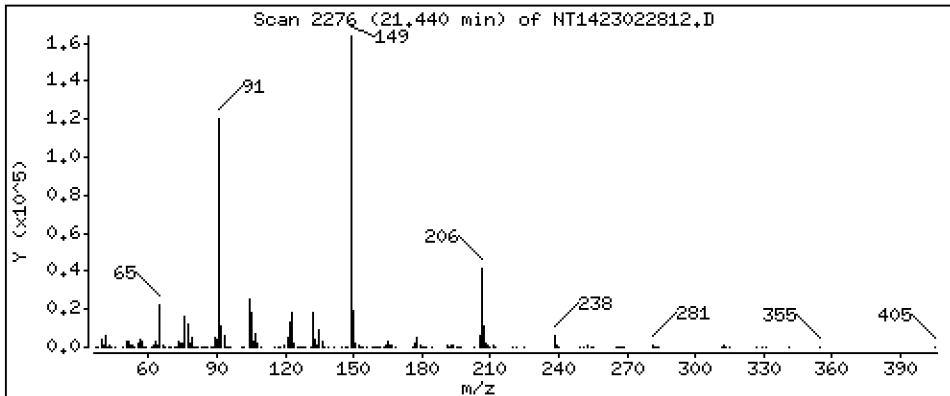
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 4,965 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

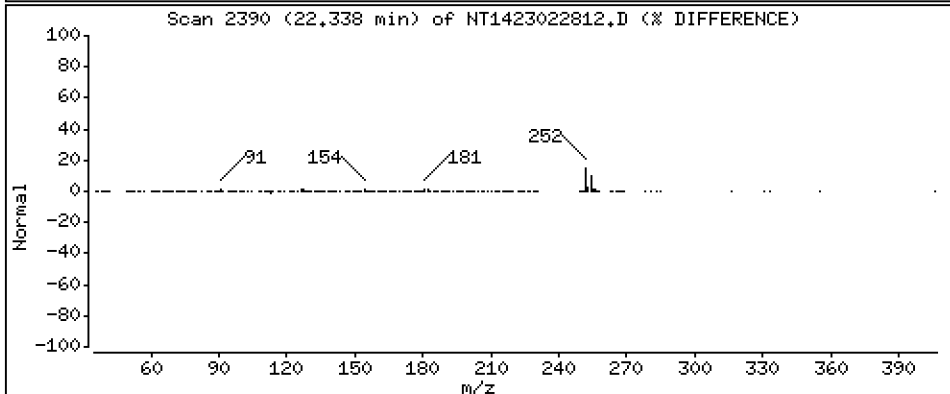
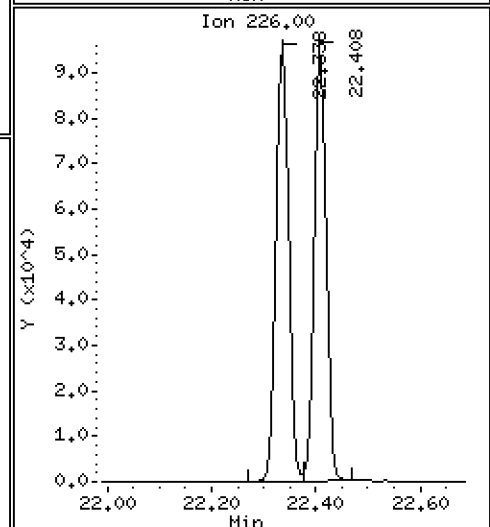
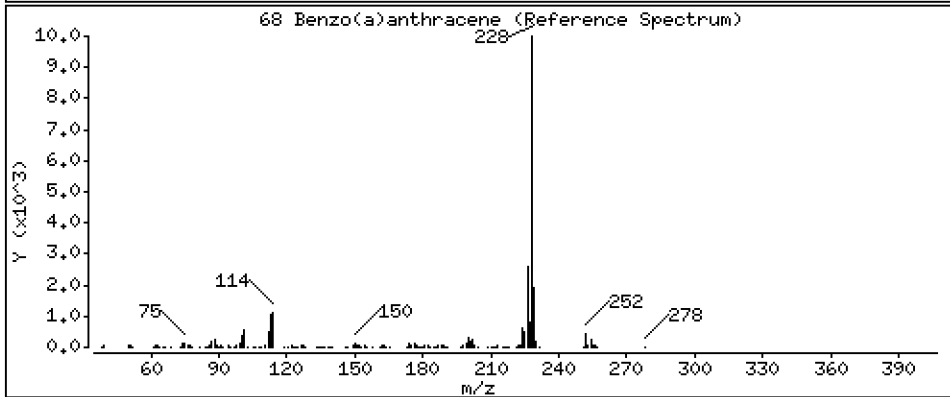
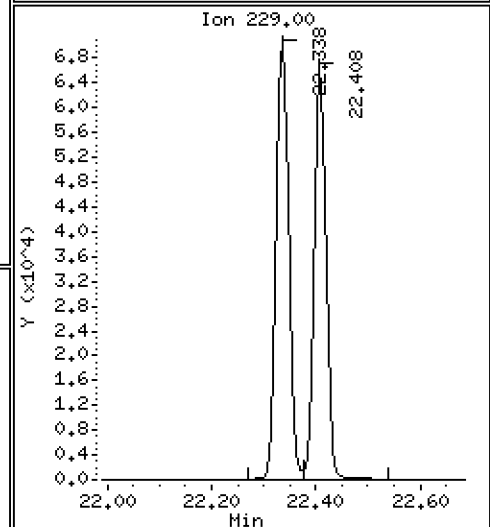
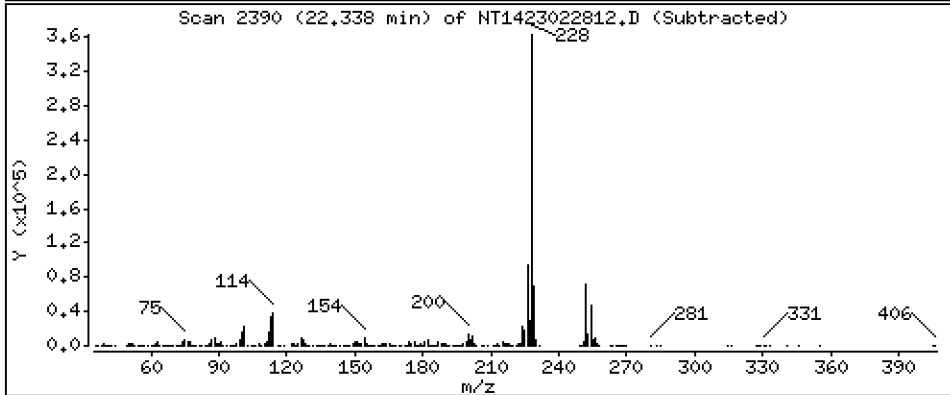
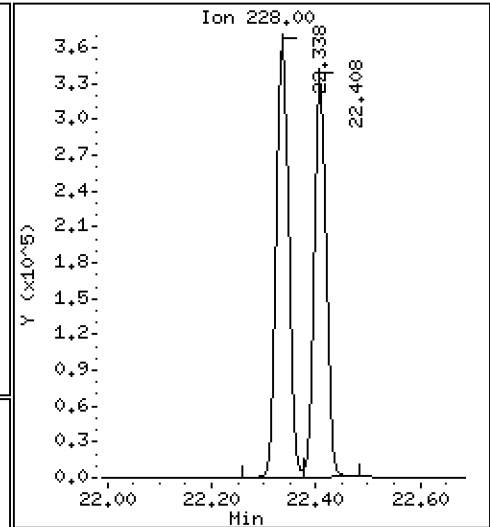
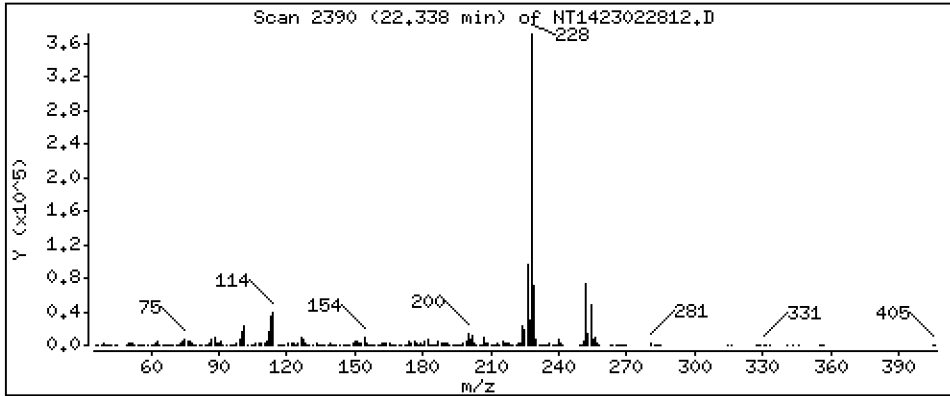
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 4,917 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

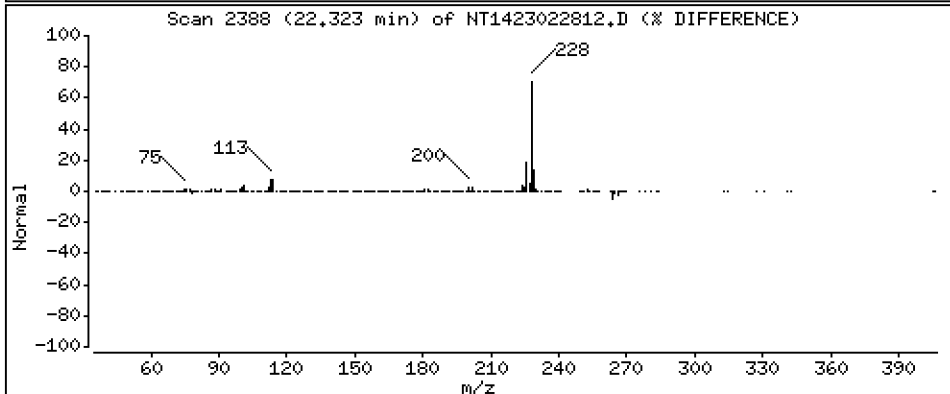
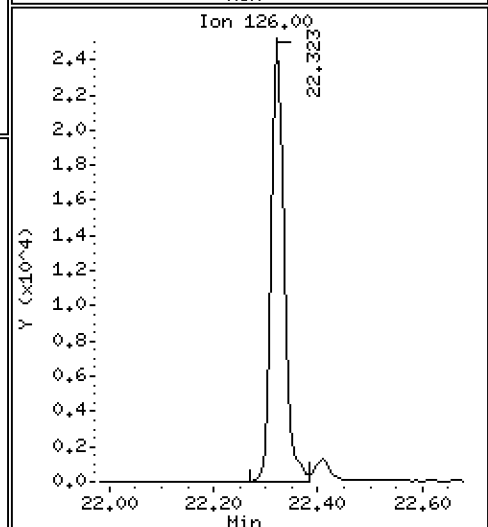
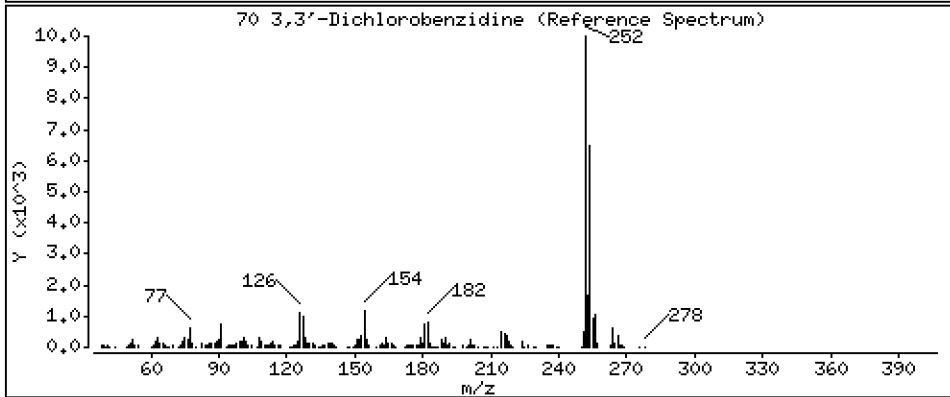
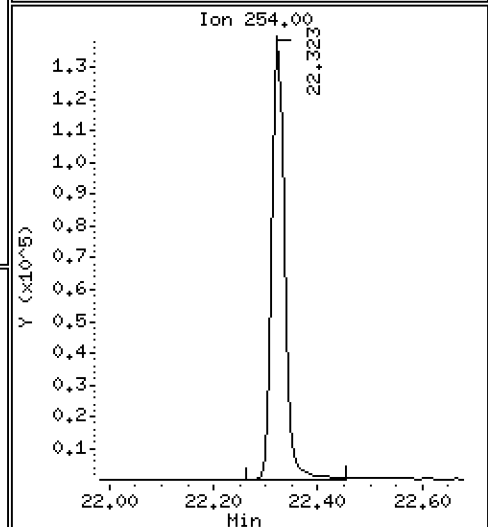
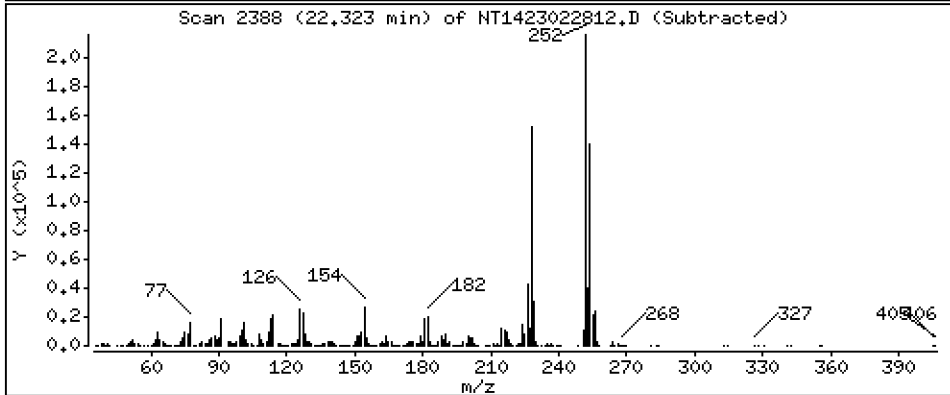
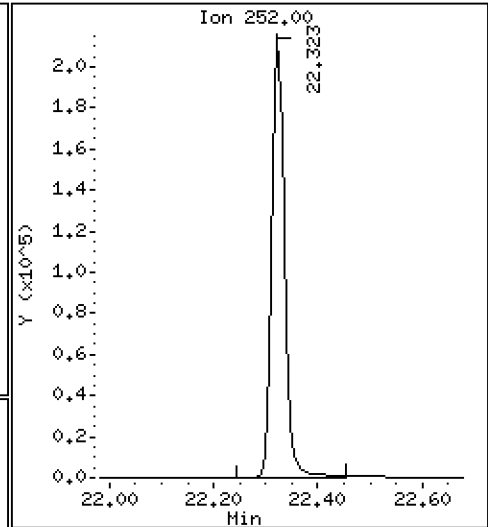
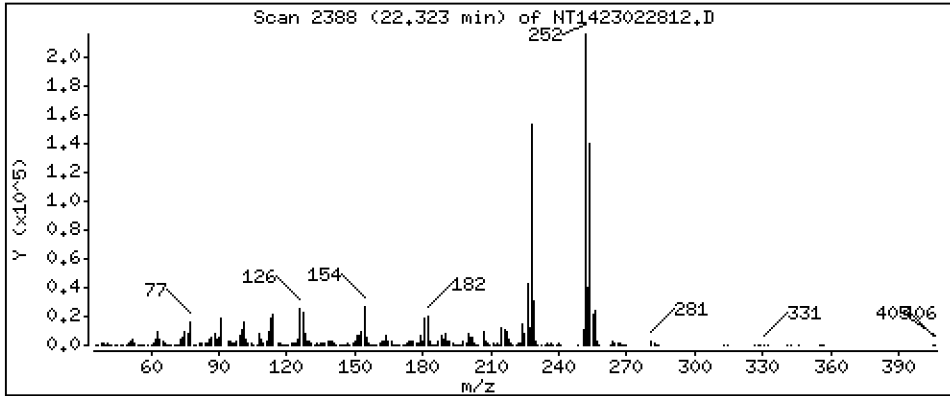
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

70 3,3'-Dichlorobenzidine

Concentration: 10,29 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

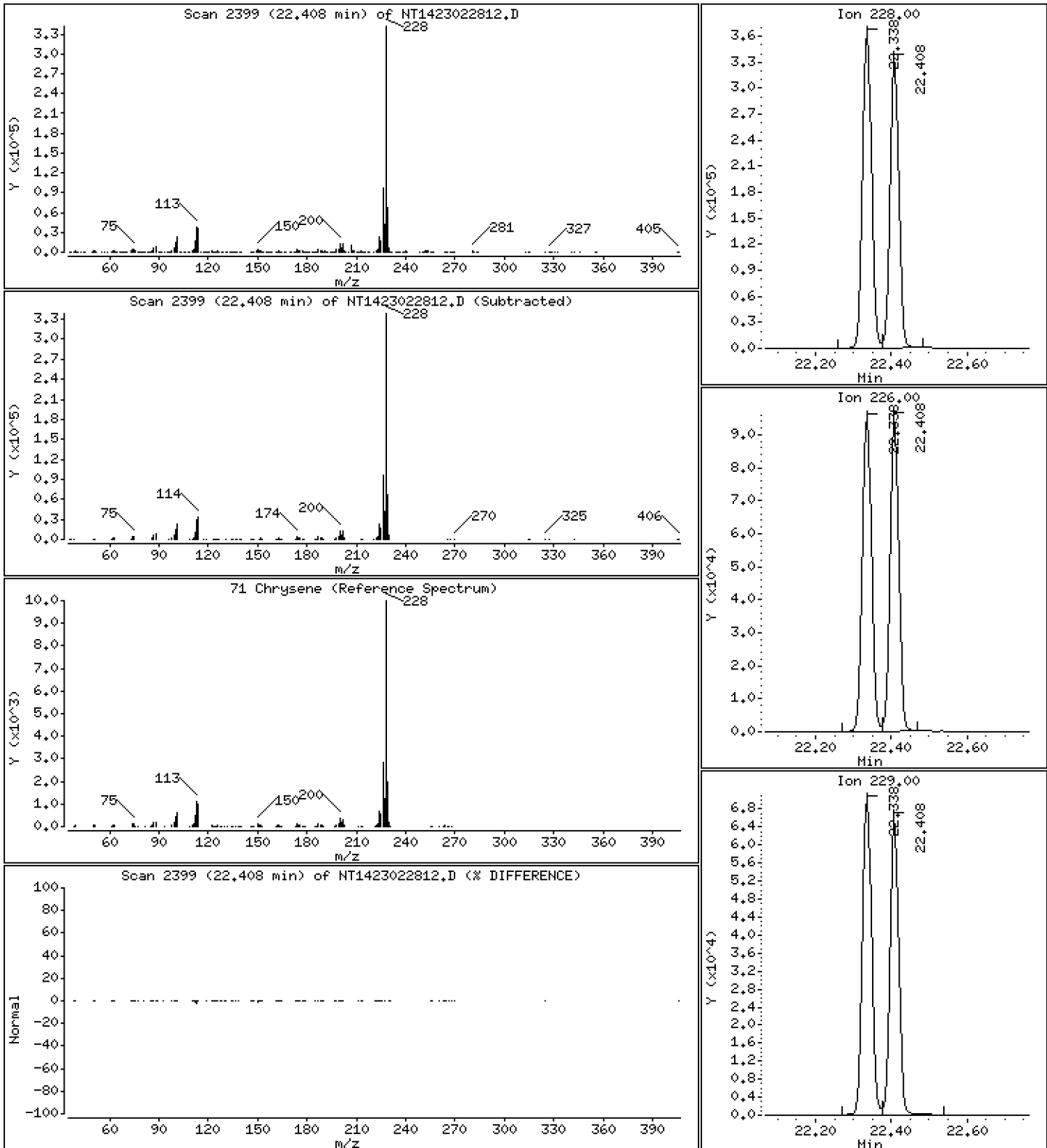
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 4,556 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

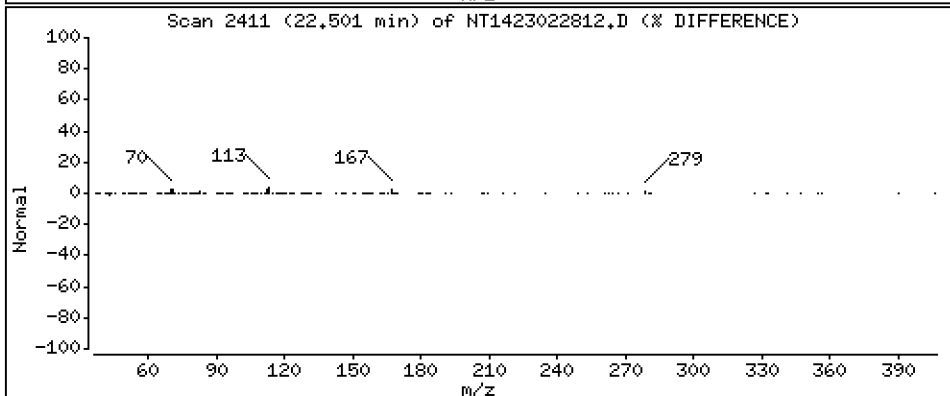
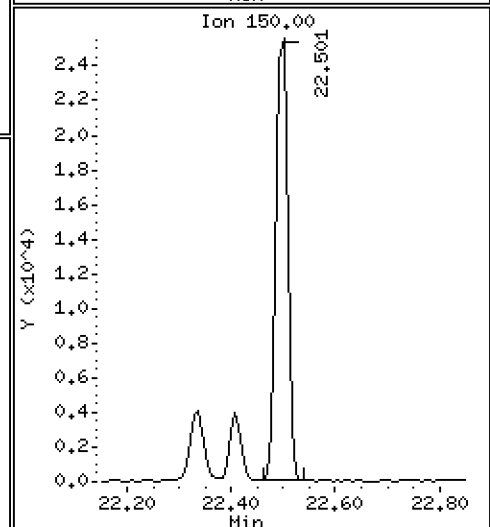
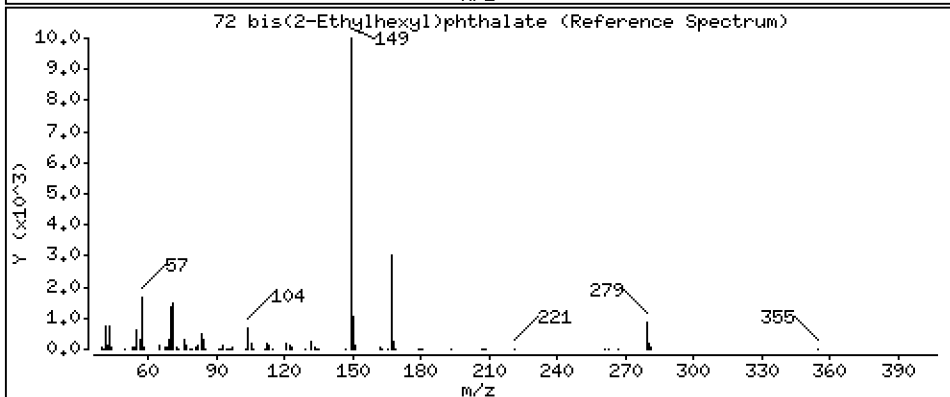
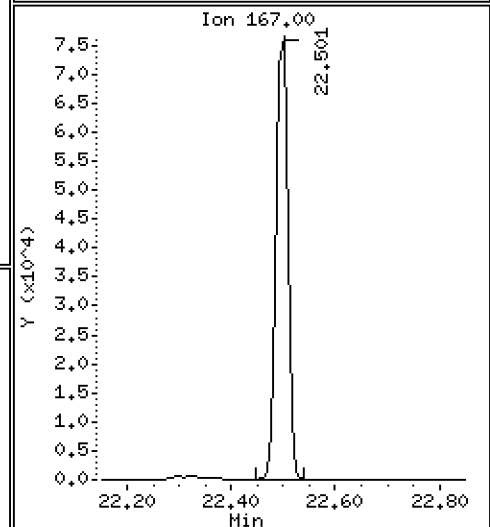
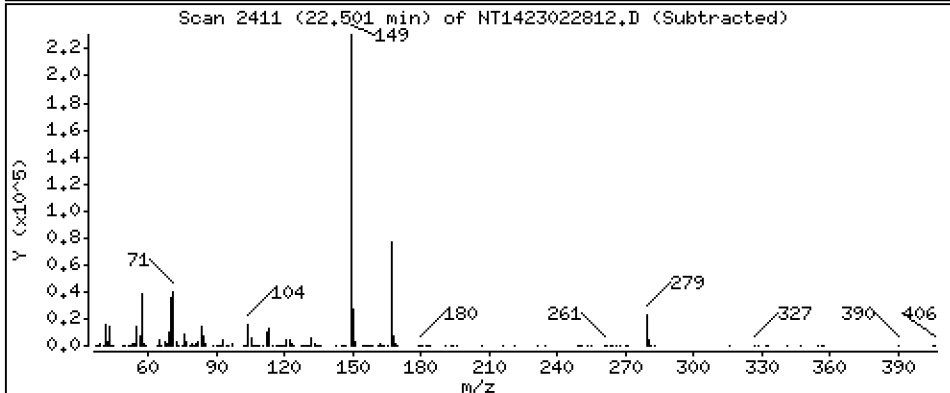
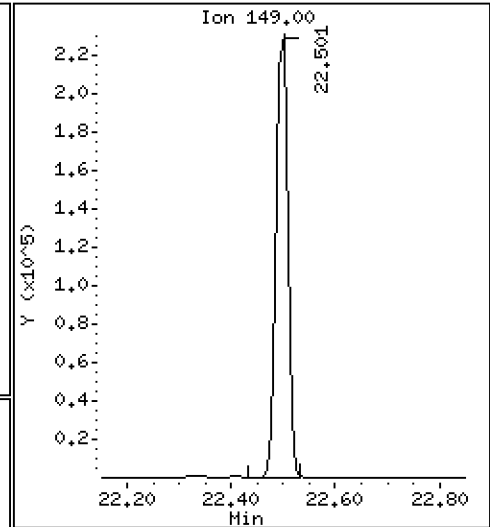
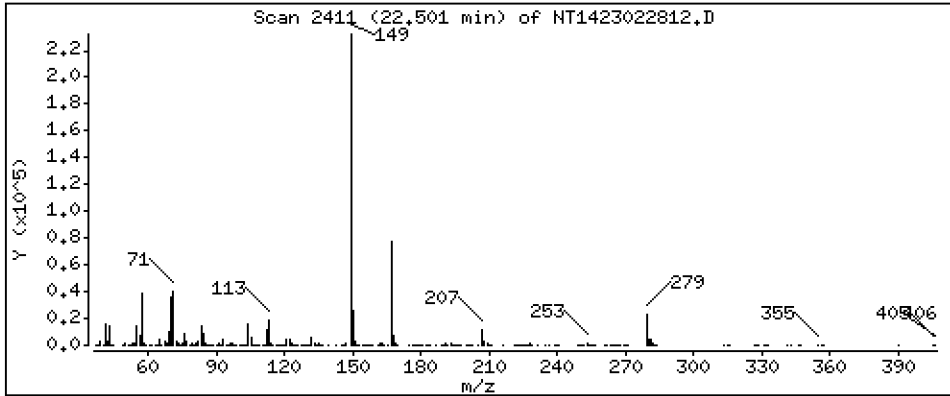
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 5,277 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

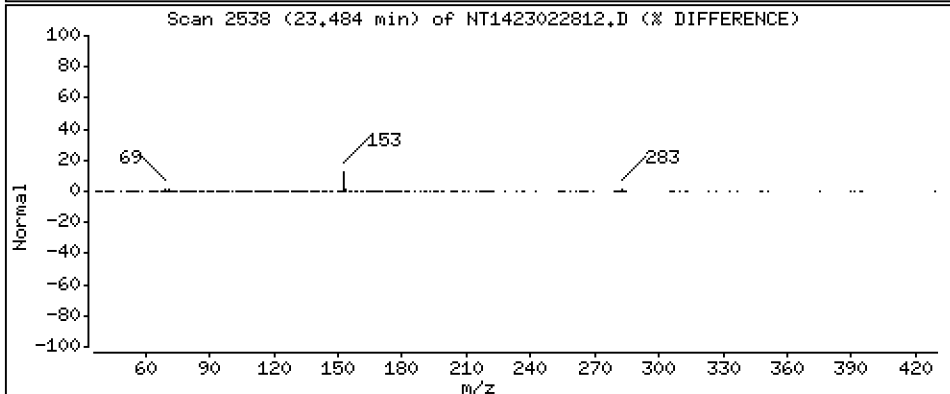
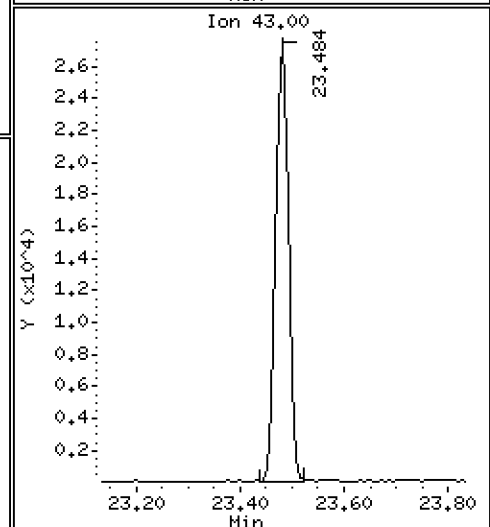
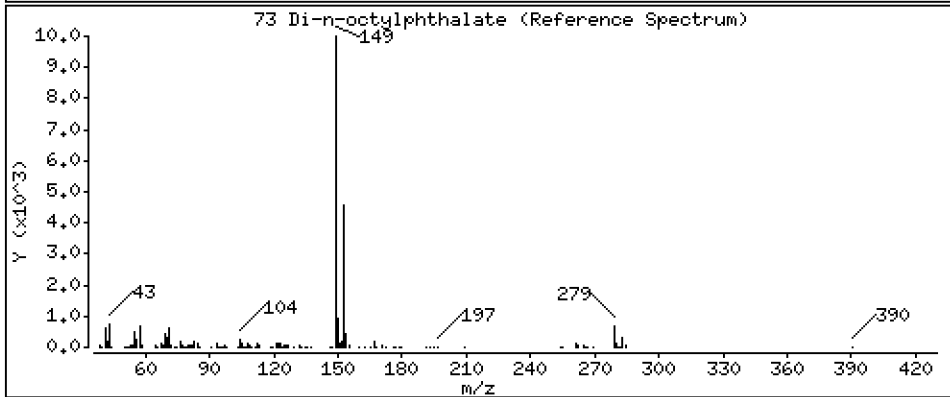
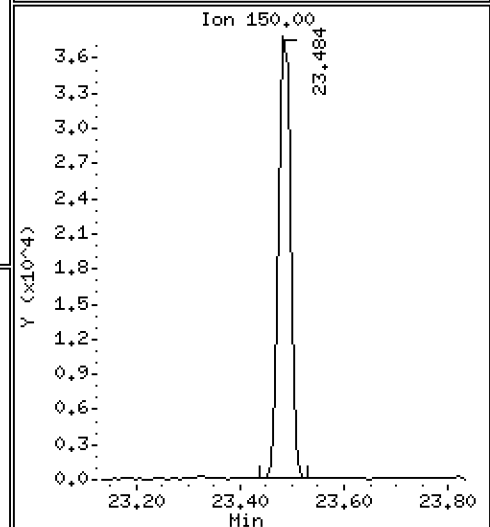
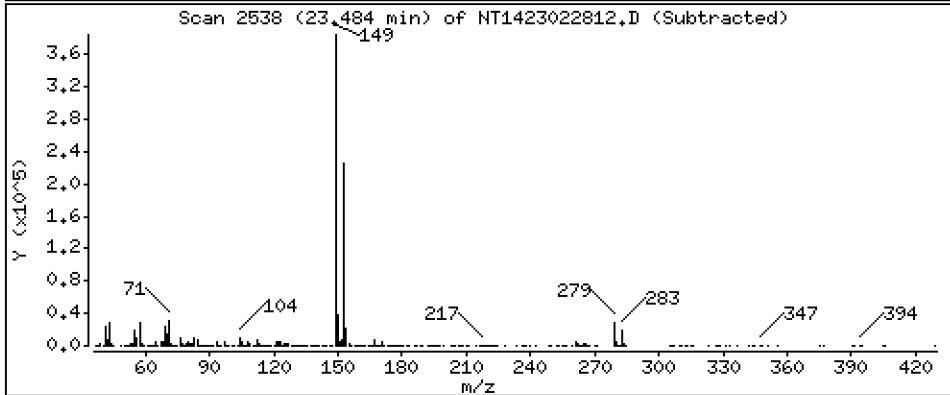
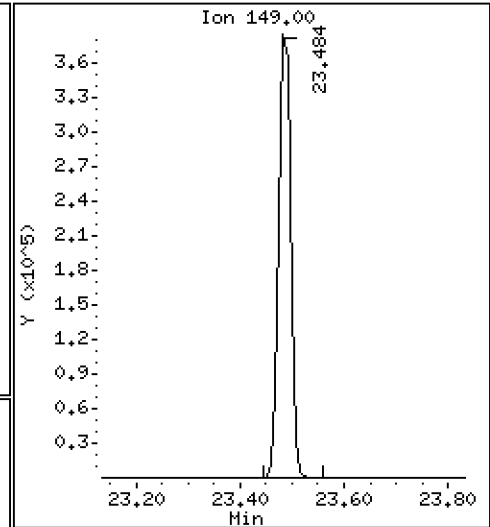
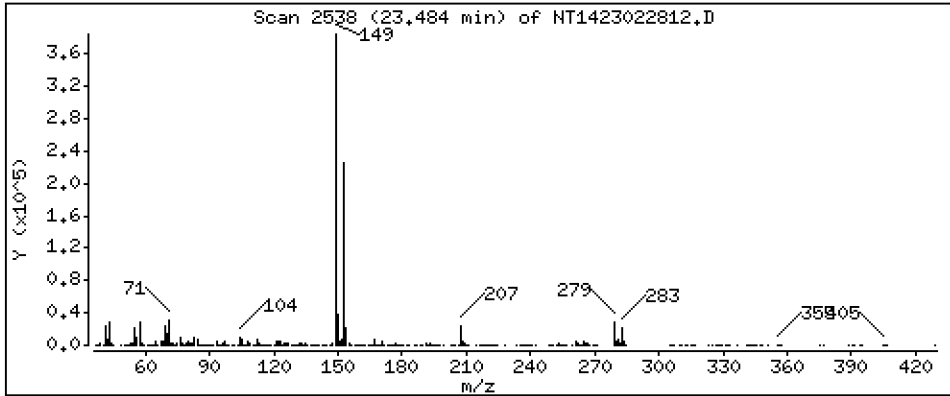
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 5,183 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

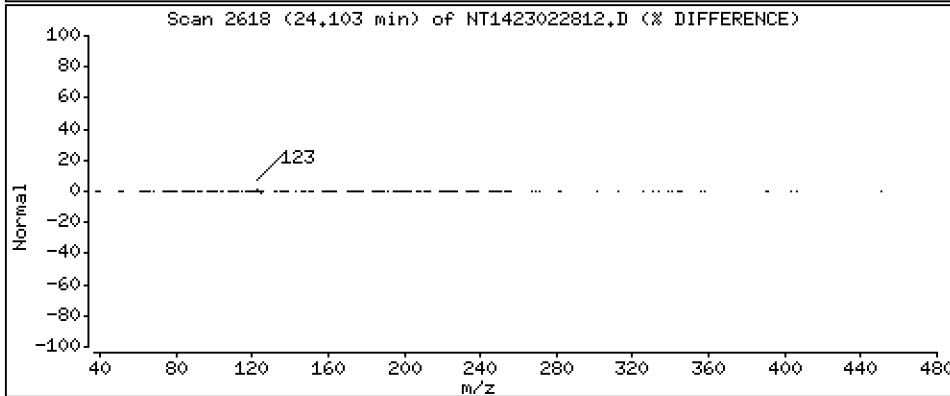
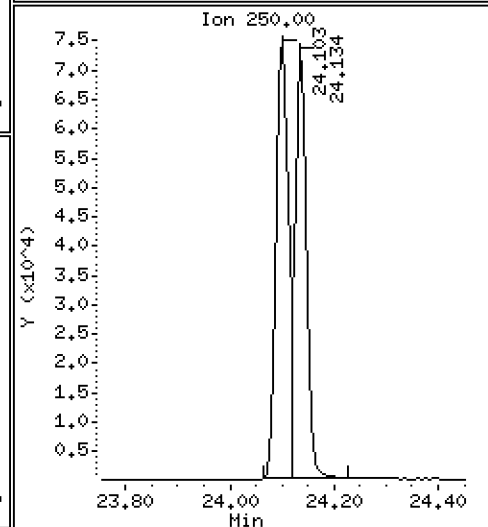
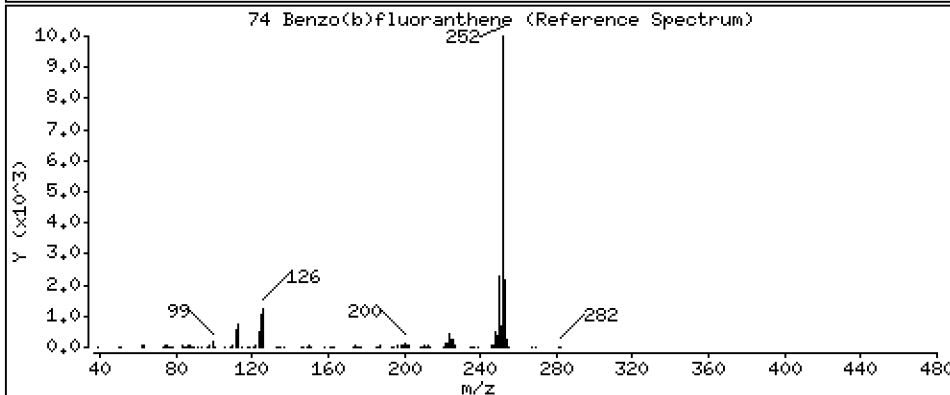
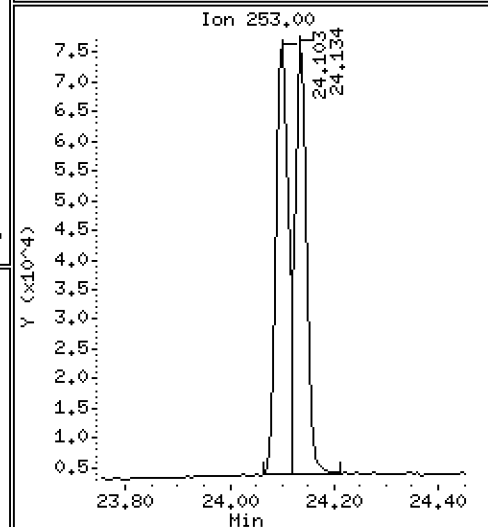
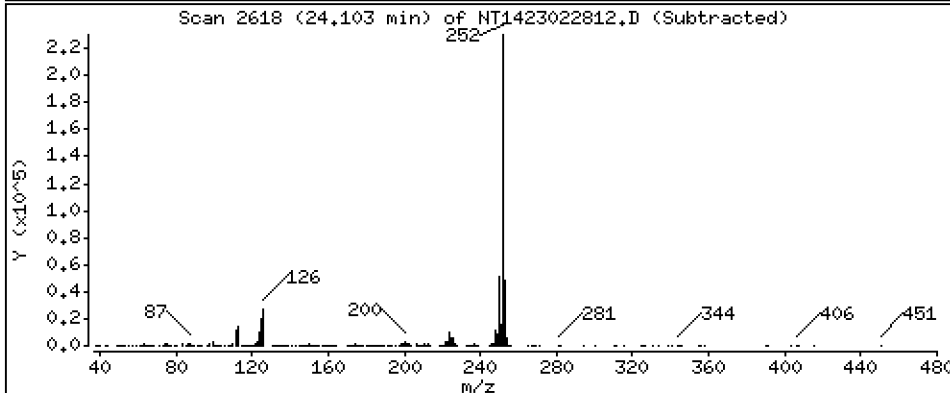
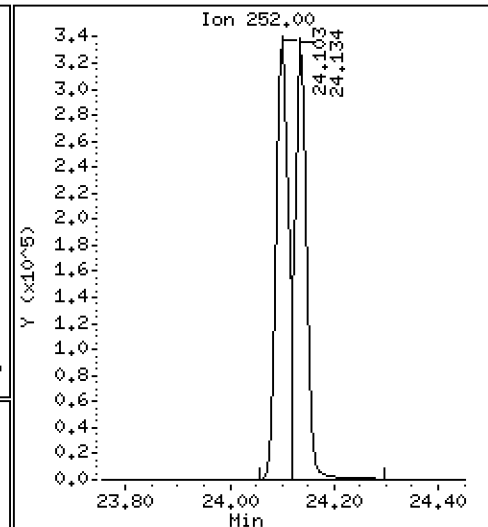
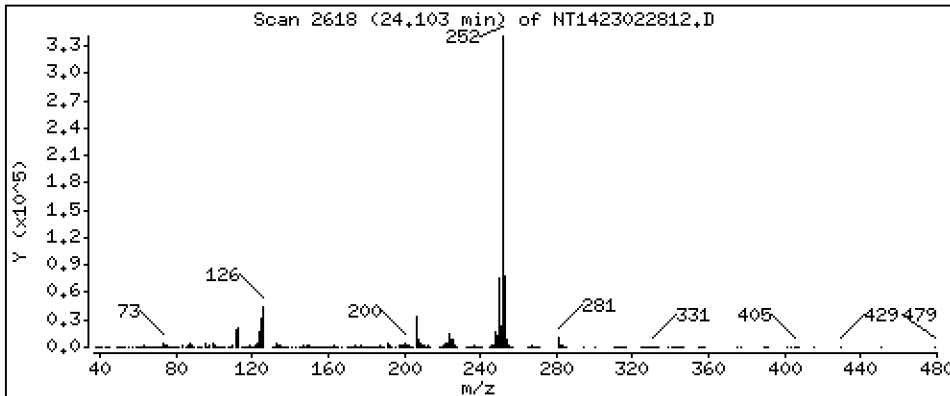
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 4,872 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

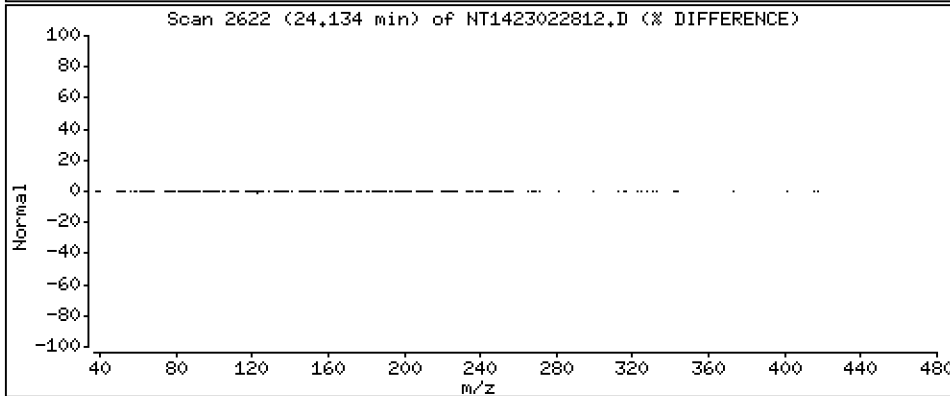
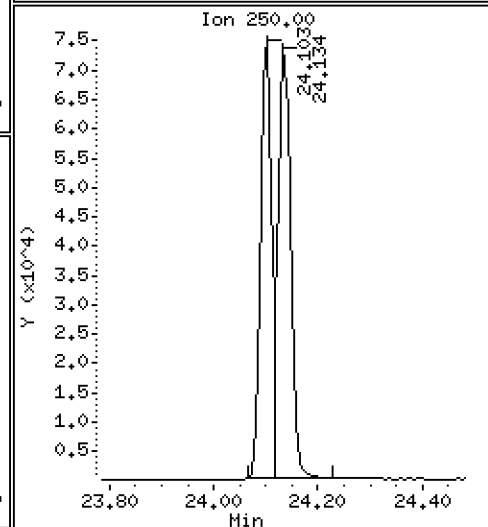
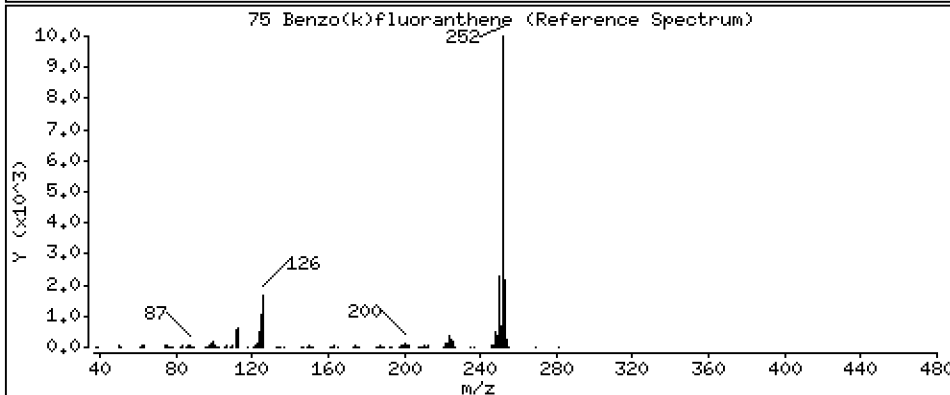
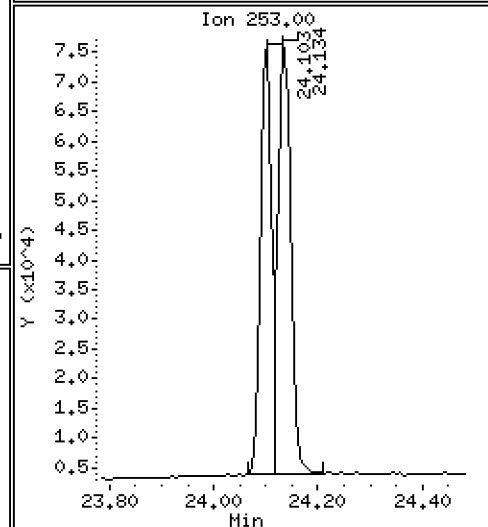
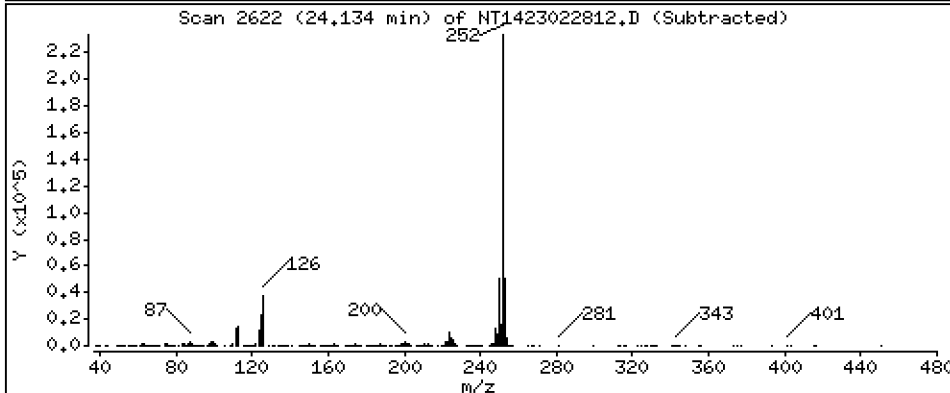
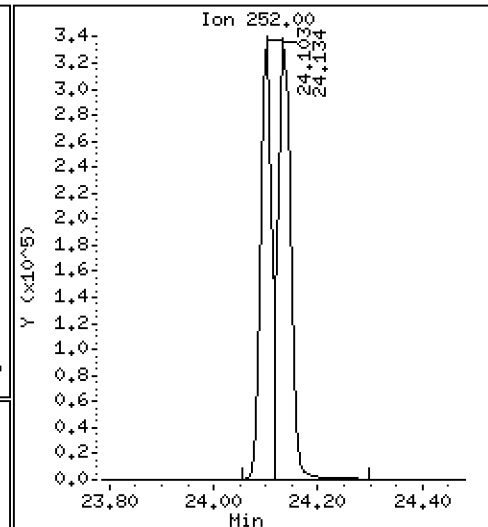
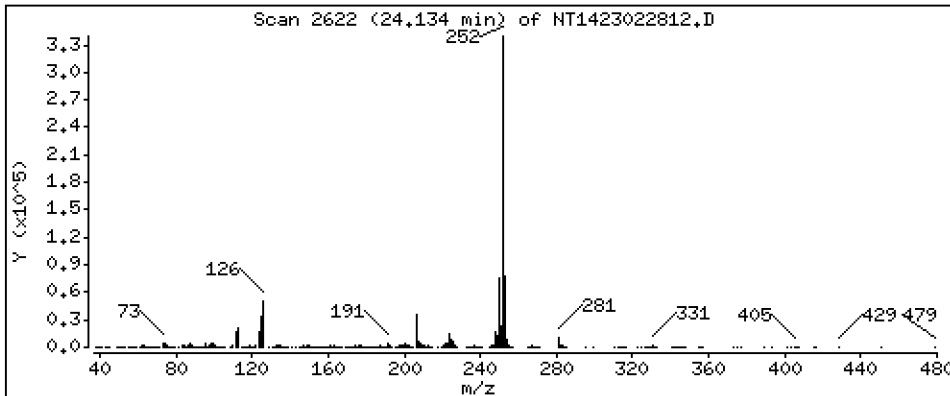
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 4,663 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

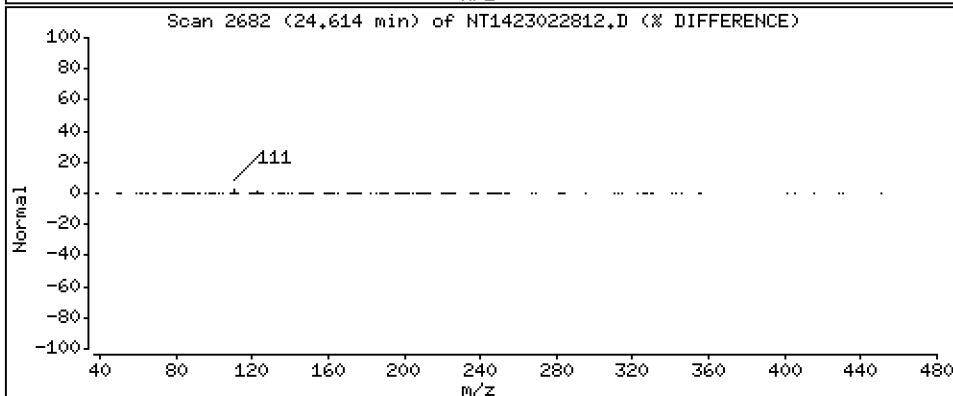
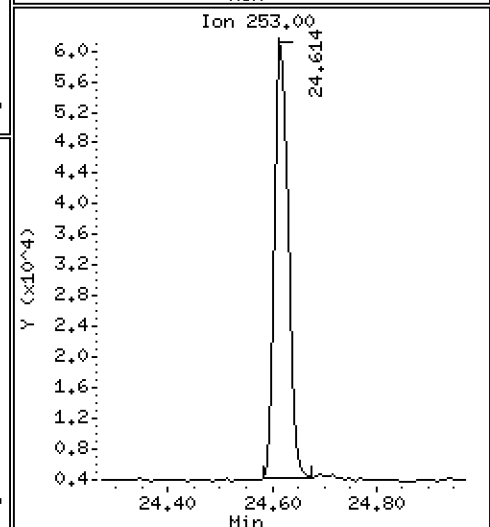
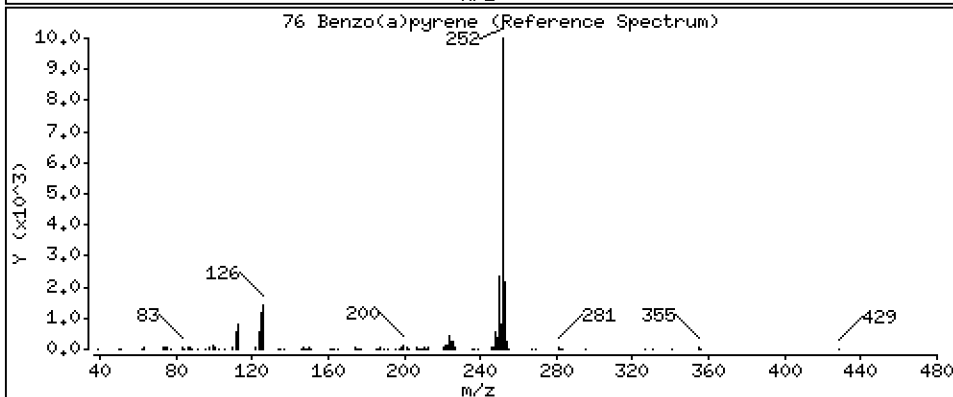
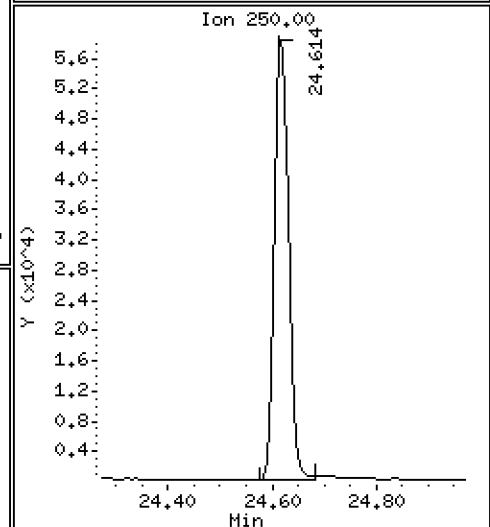
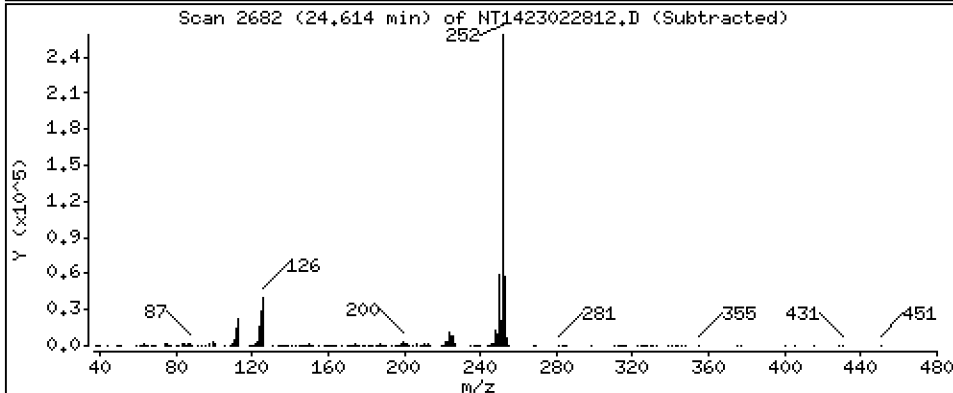
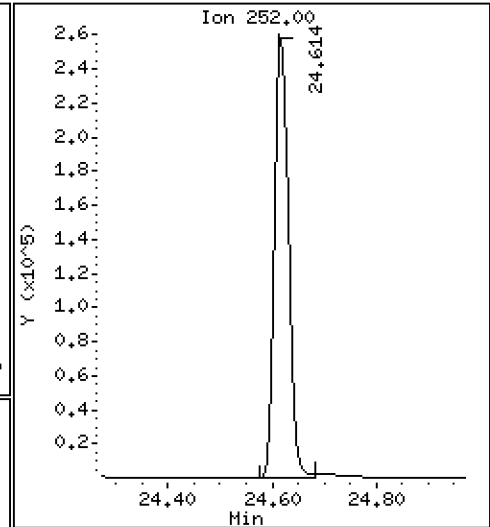
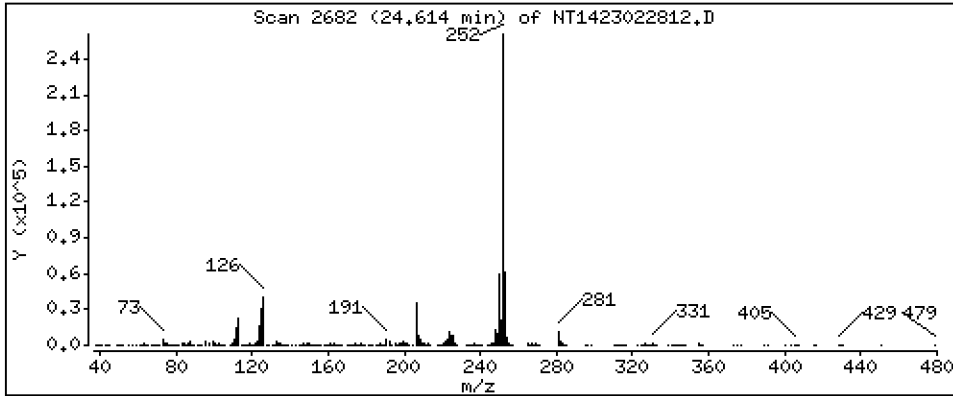
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 4,886 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

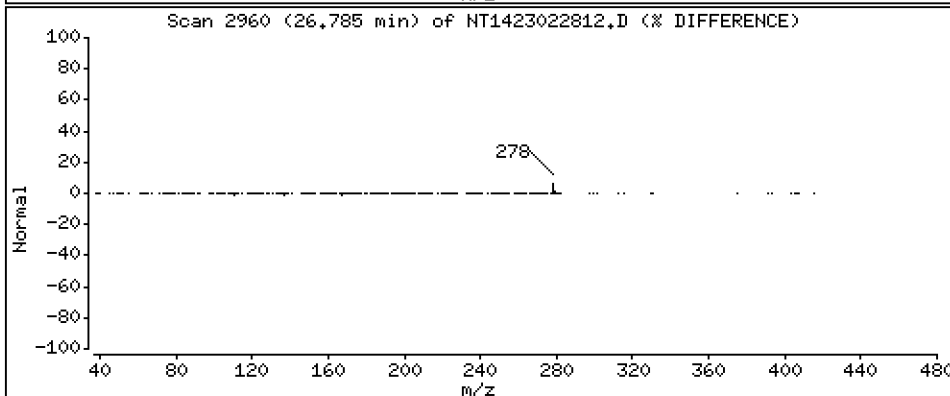
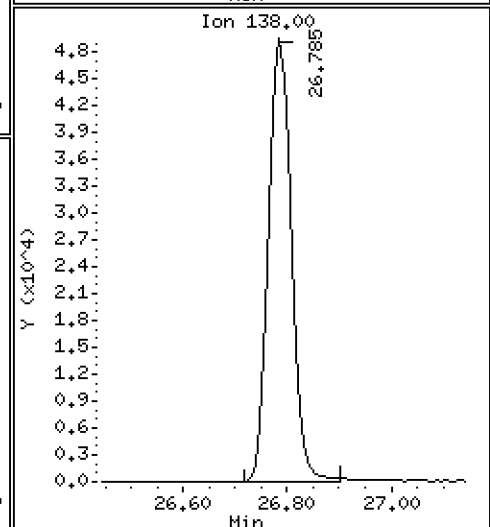
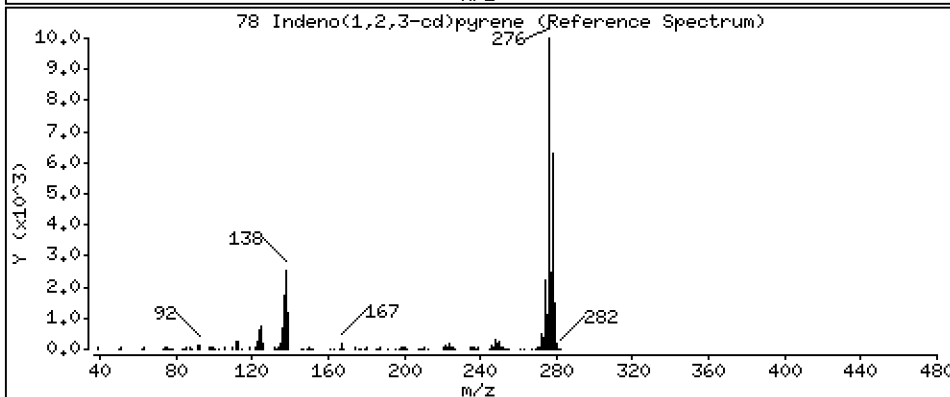
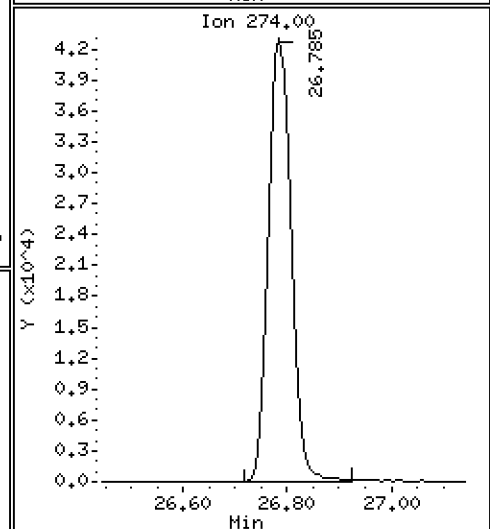
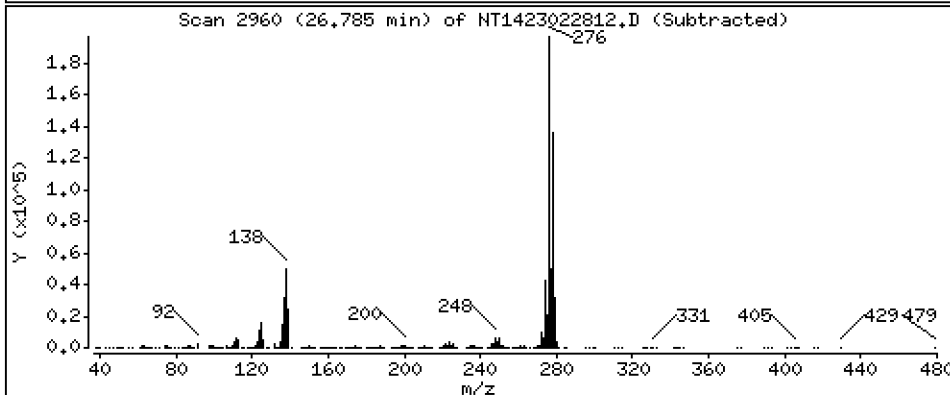
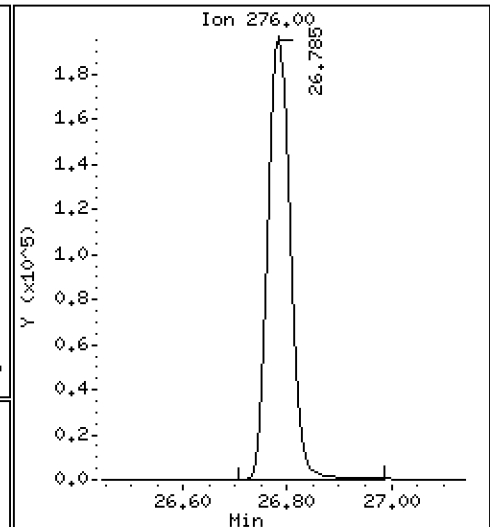
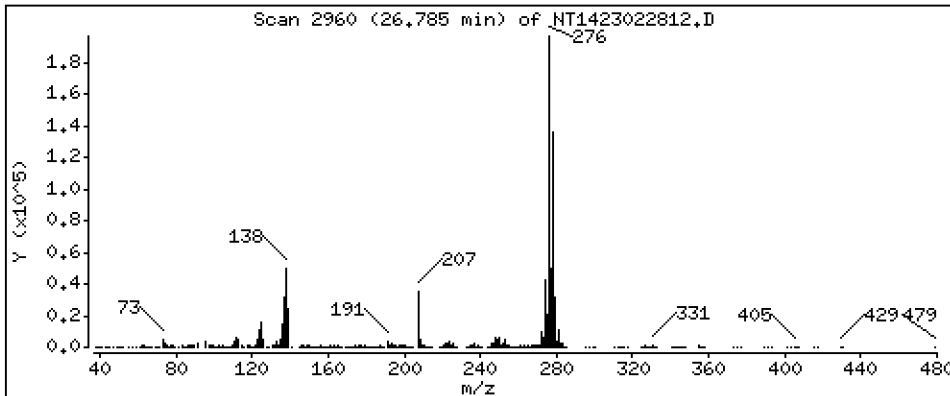
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 4,892 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

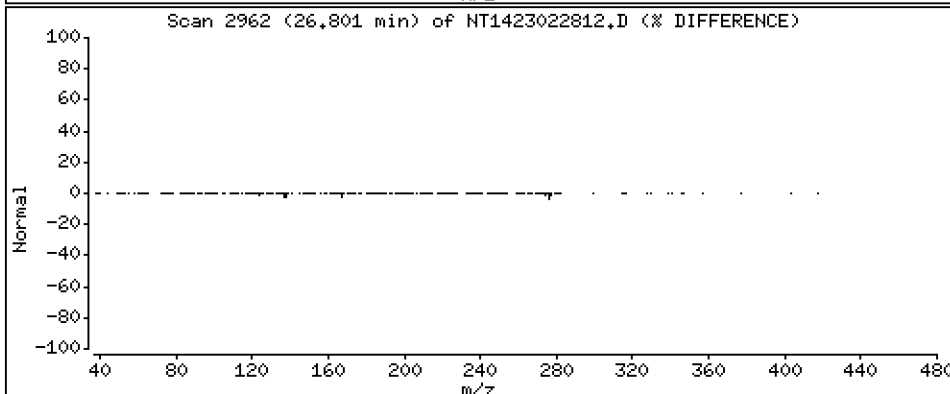
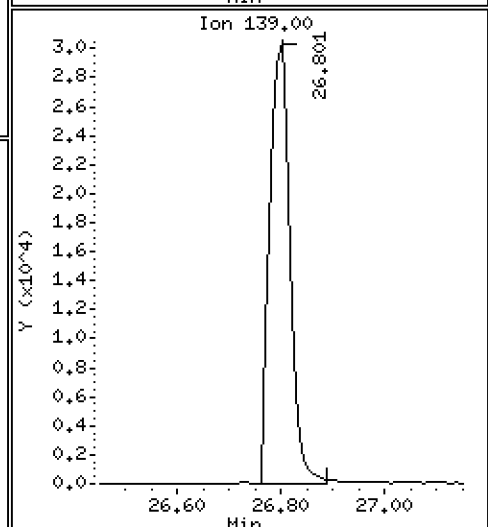
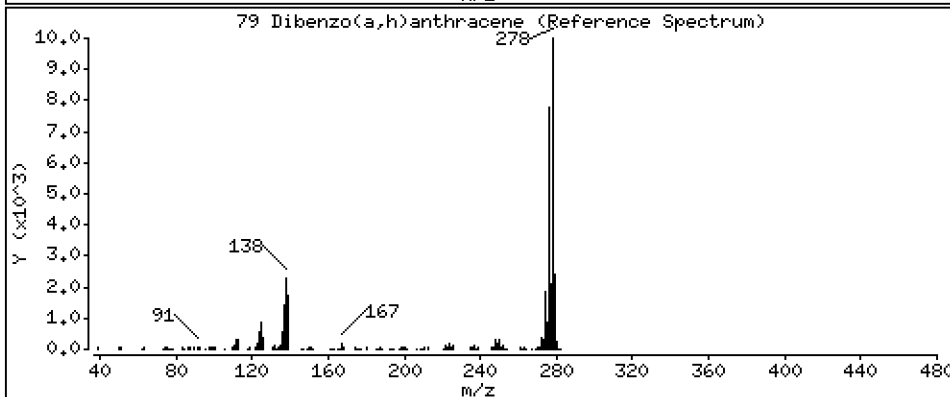
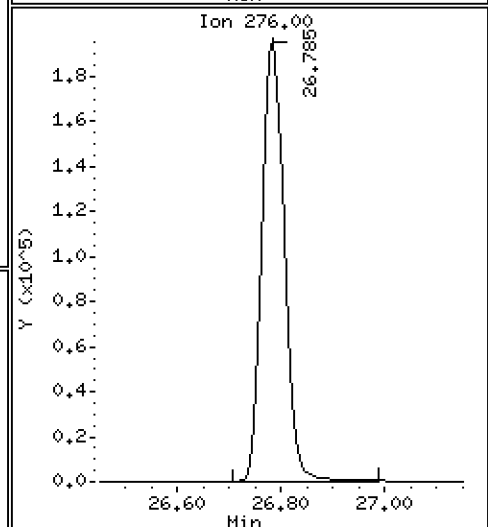
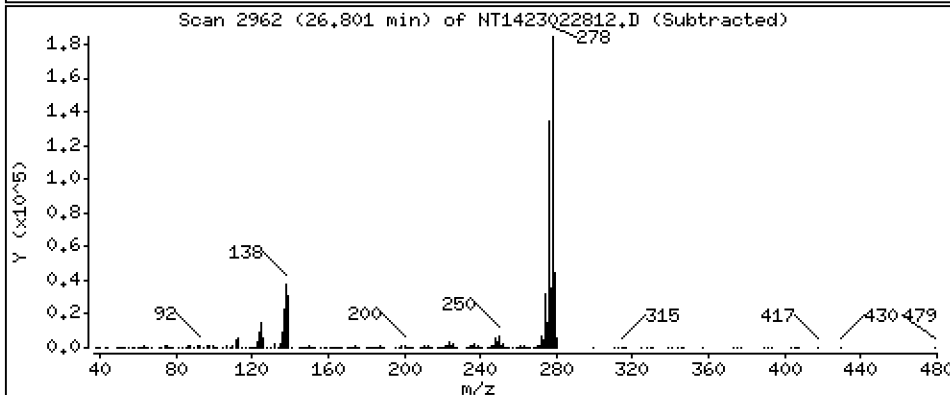
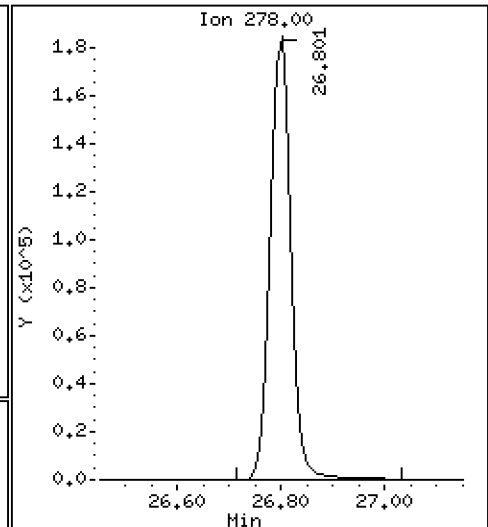
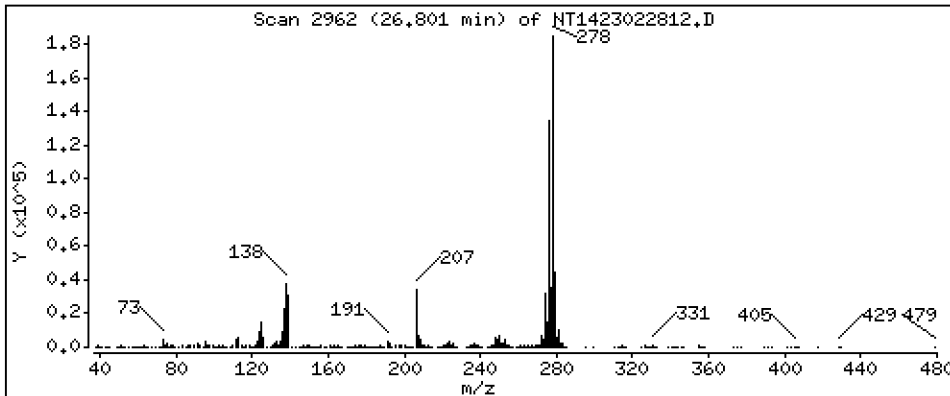
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 4,907 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

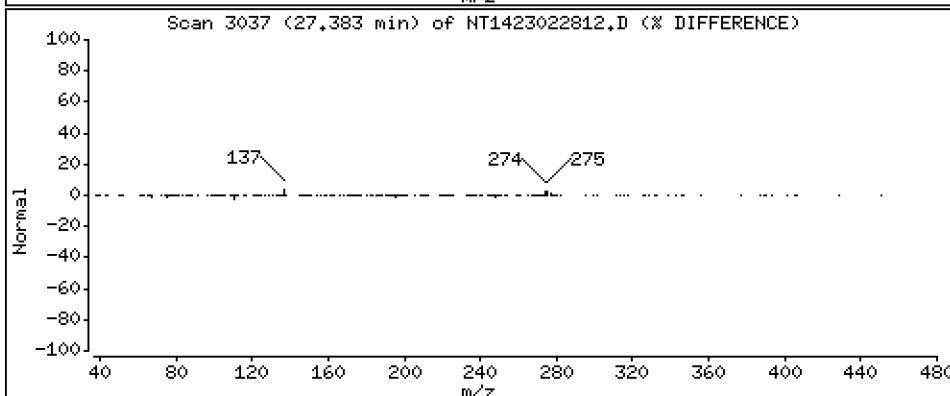
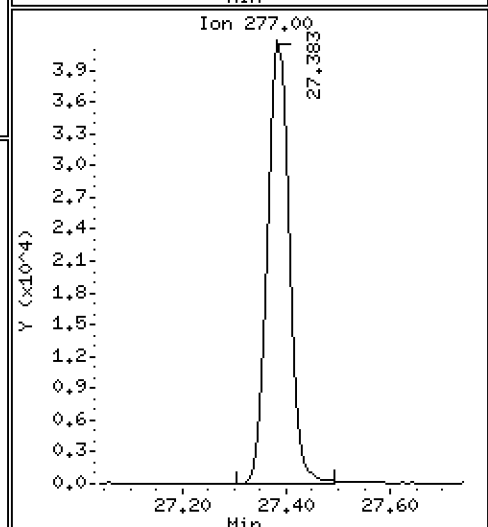
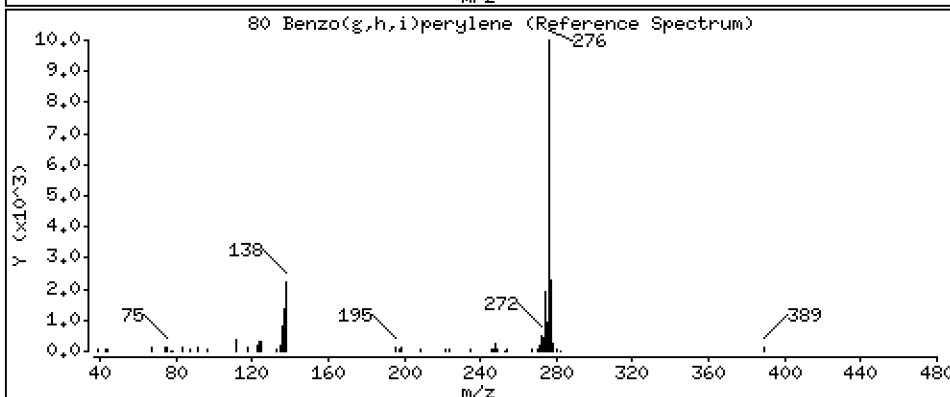
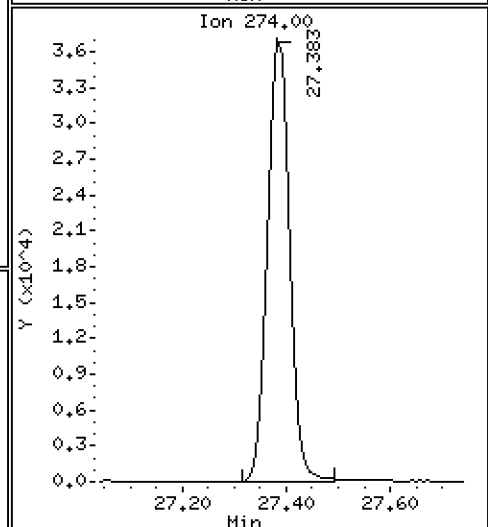
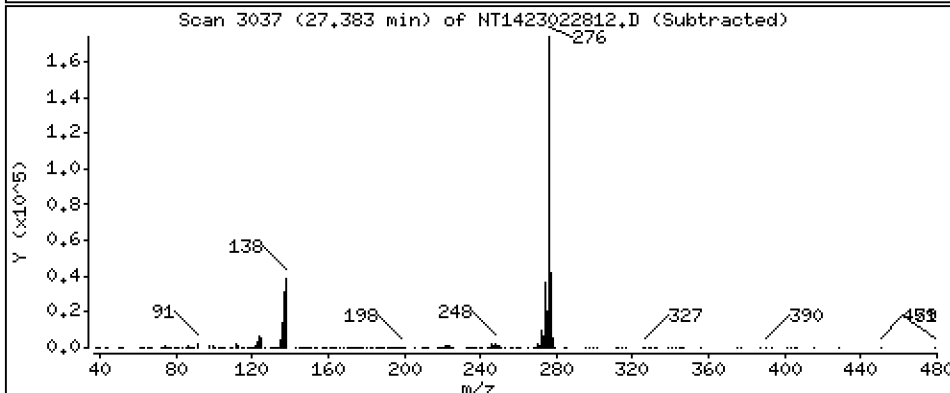
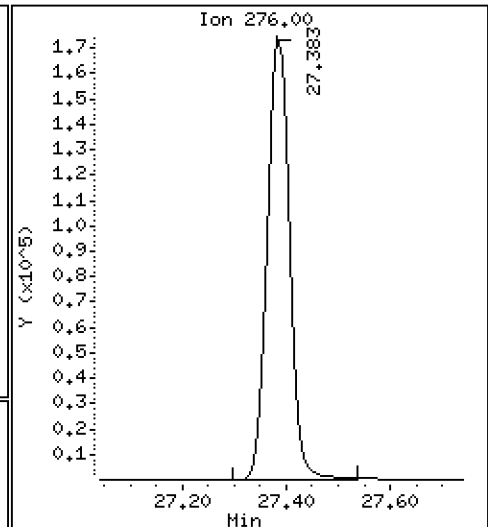
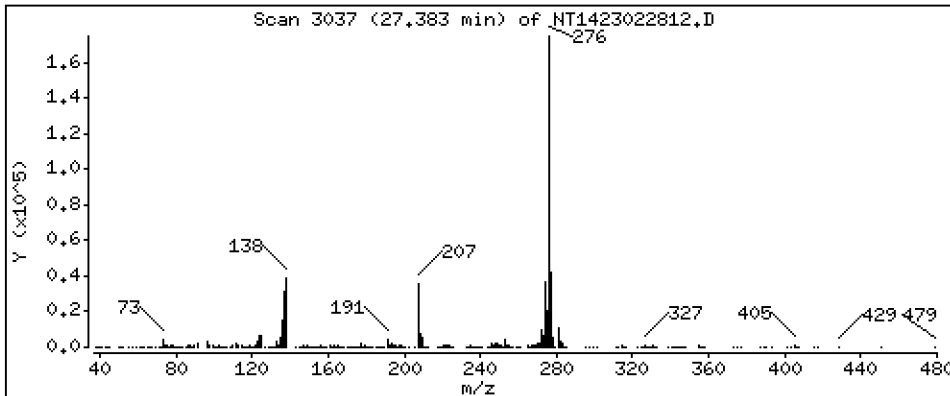
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 4,858 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

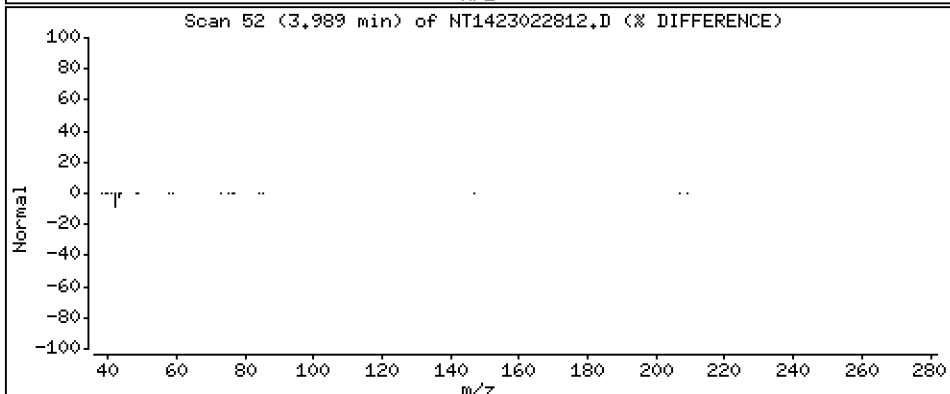
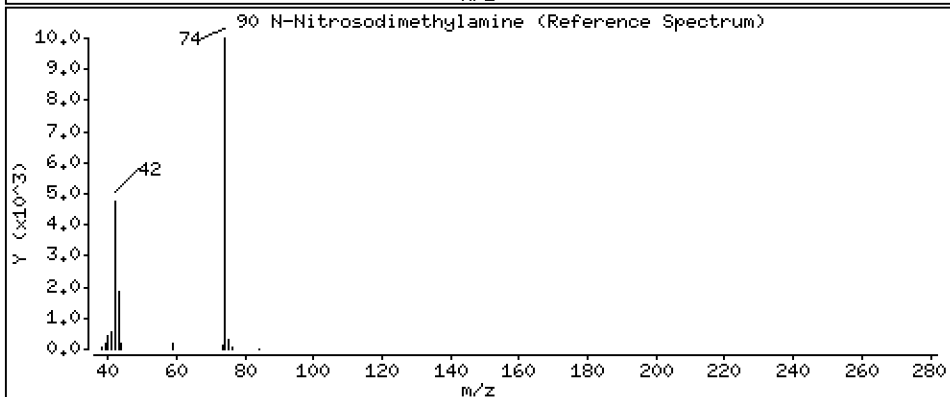
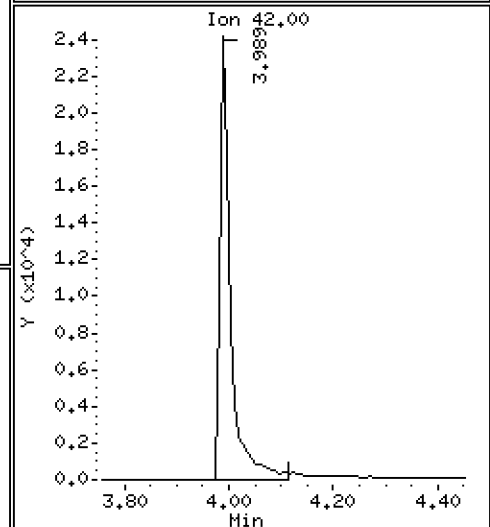
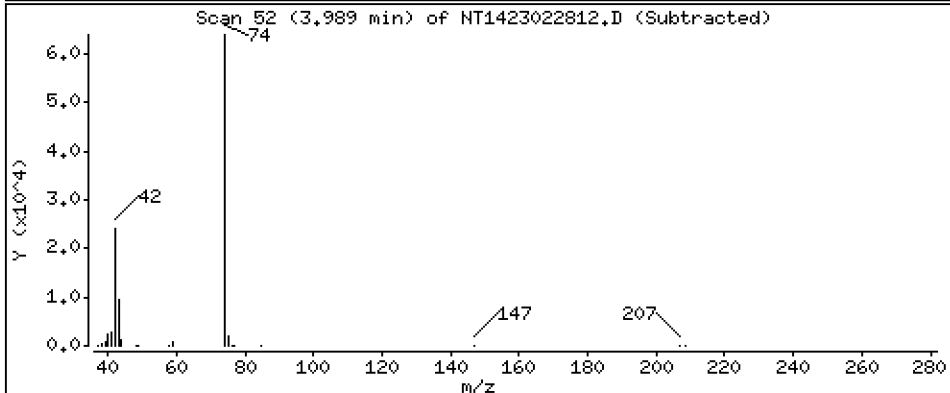
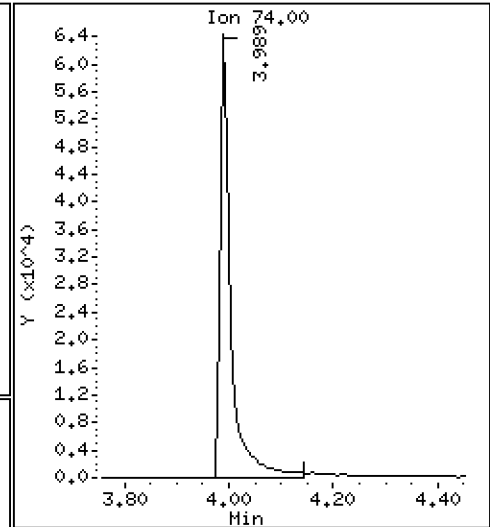
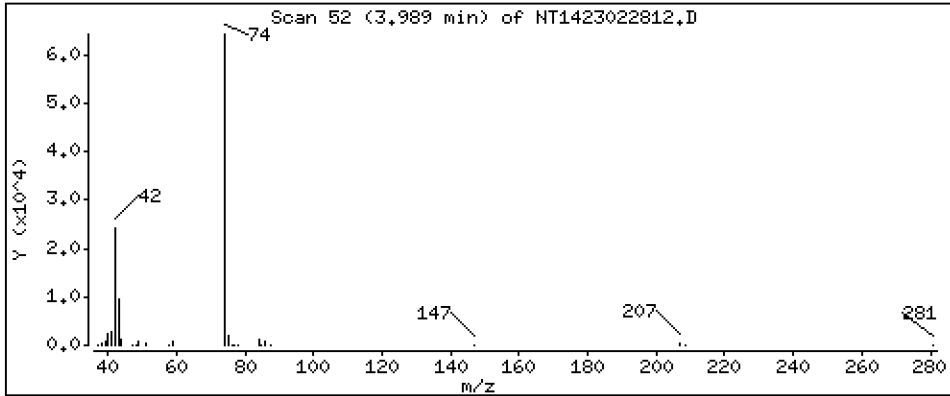
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

90 N-Nitrosodimethylamine

Concentration: 4,507 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

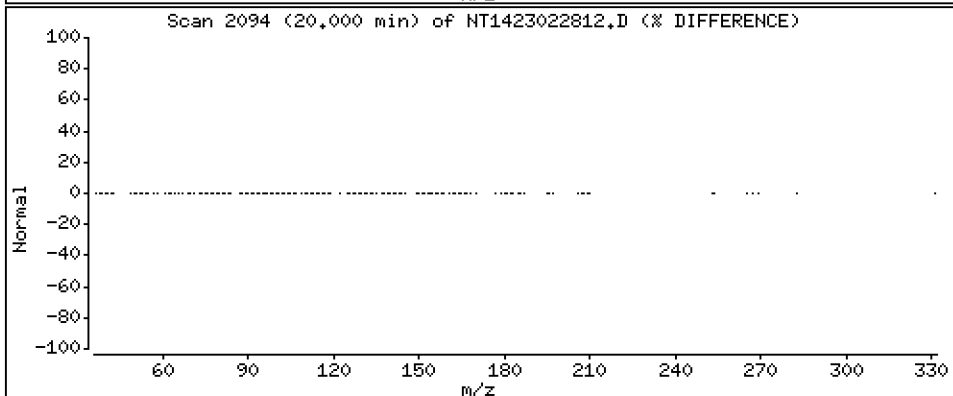
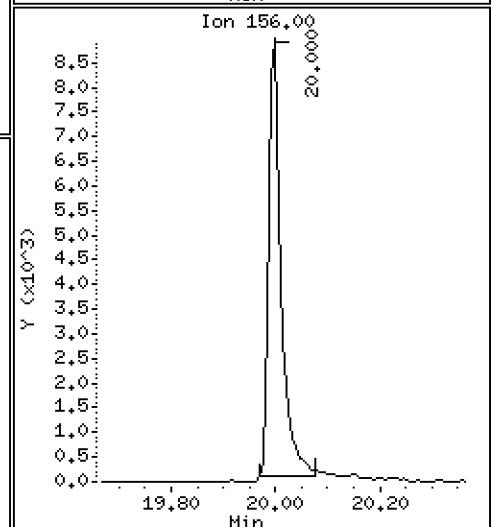
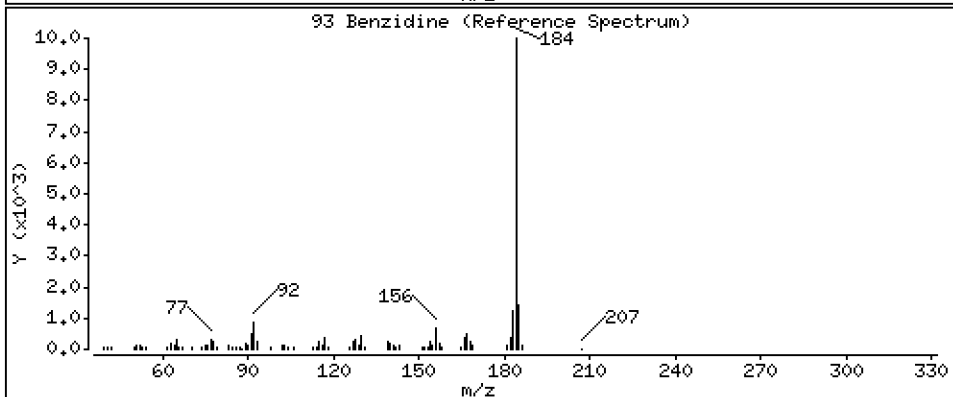
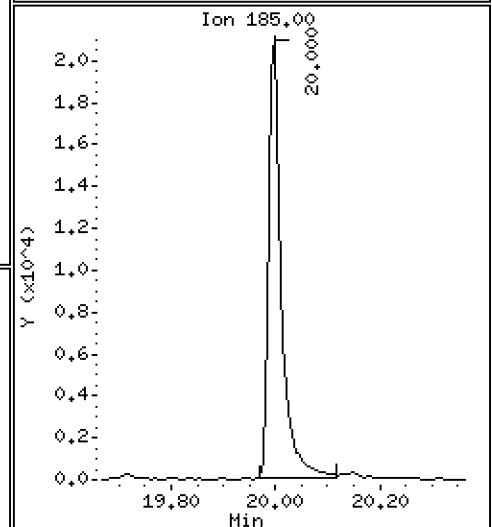
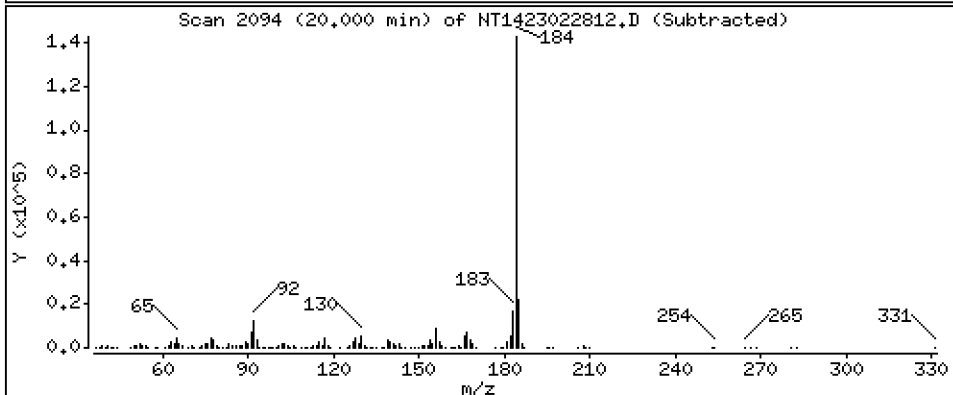
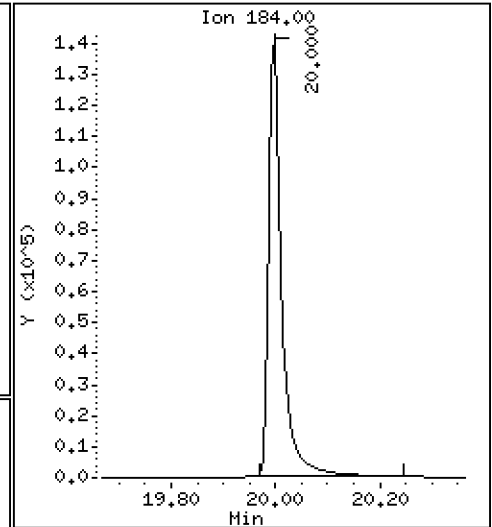
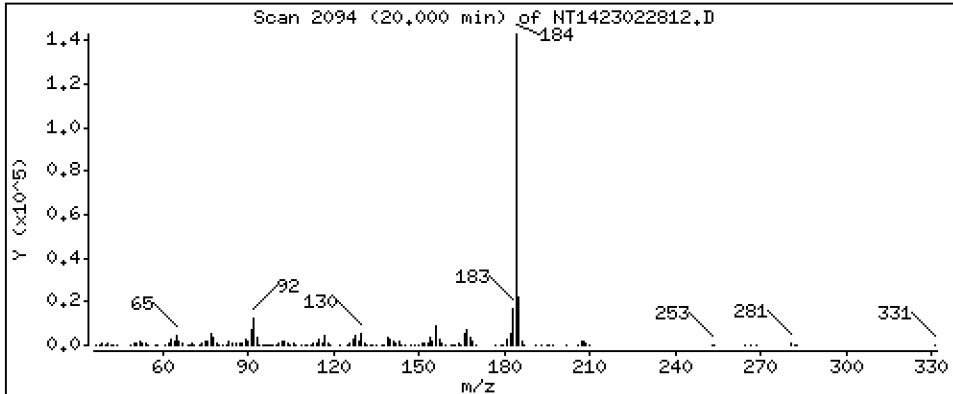
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

93 Benzidine

Concentration: 4,509 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

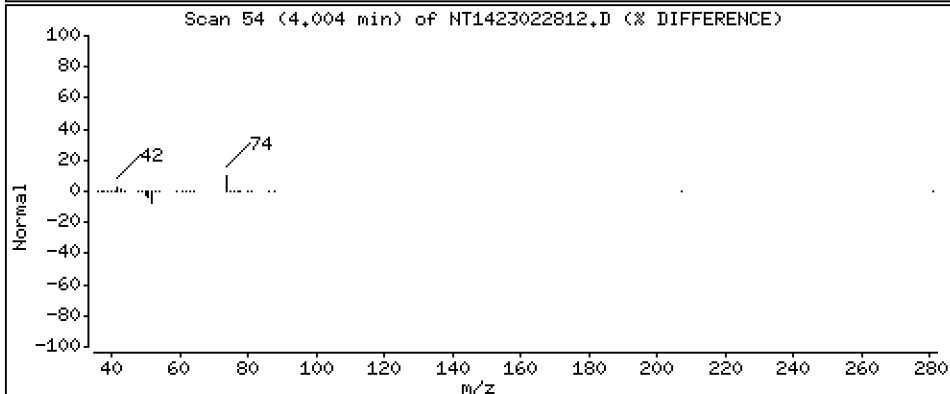
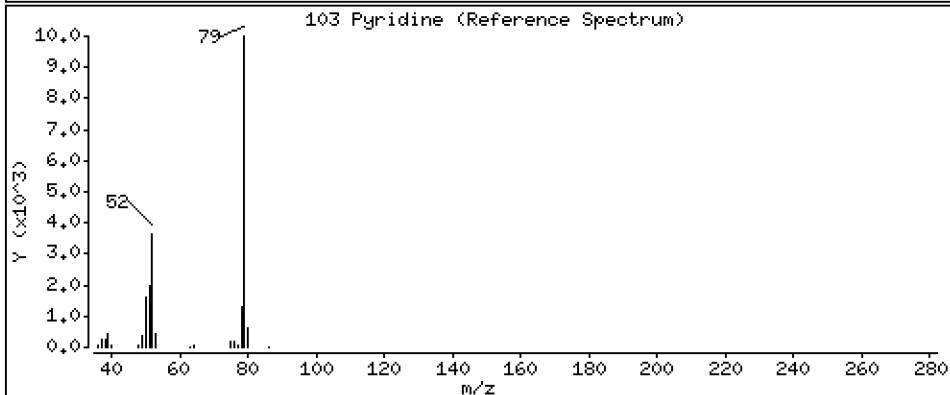
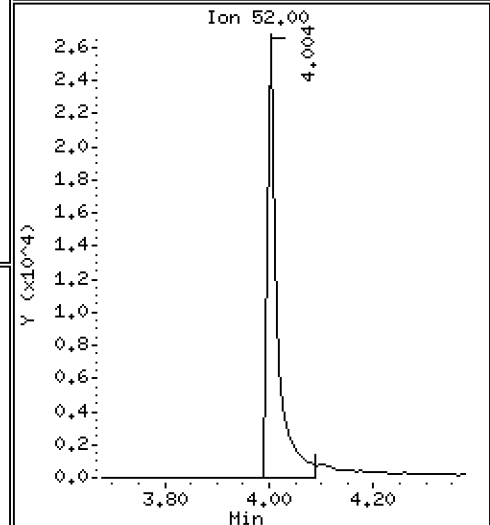
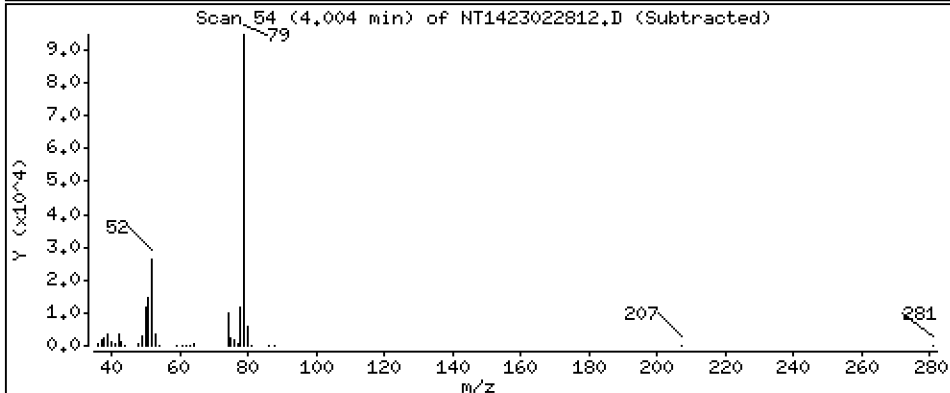
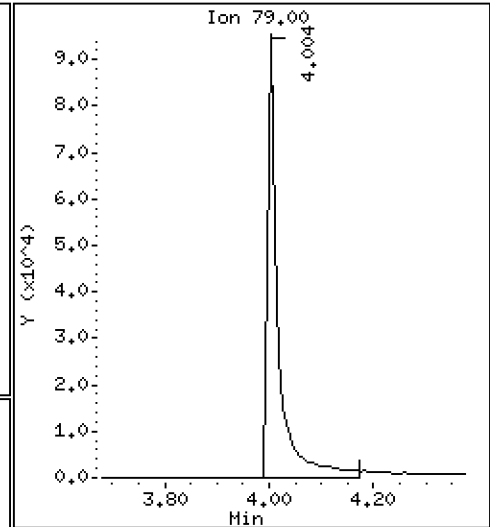
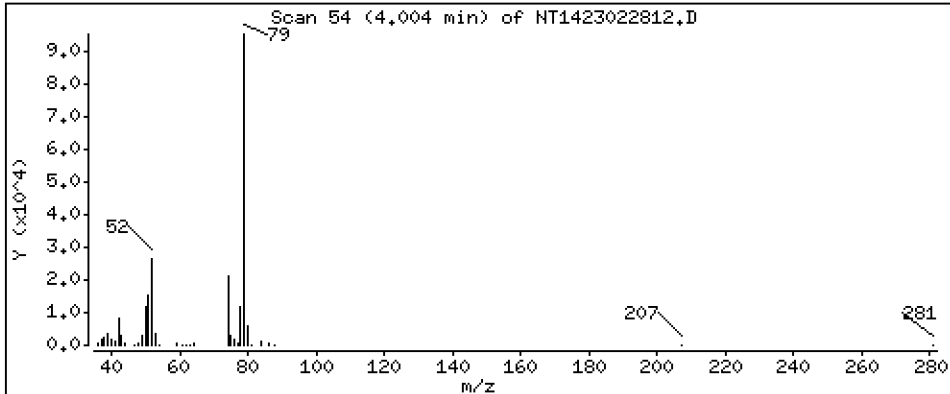
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

103 Pyridine

Concentration: 2,196 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

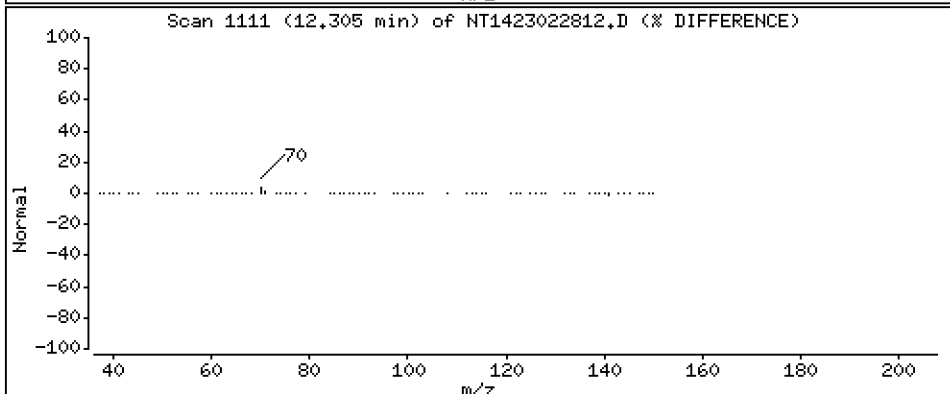
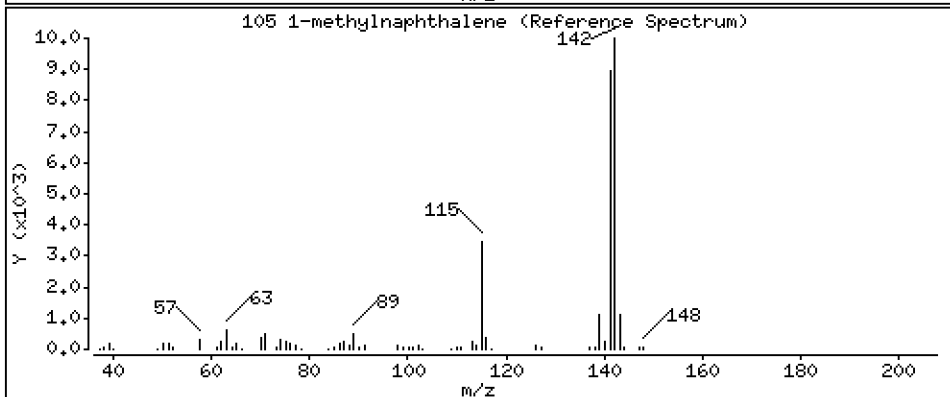
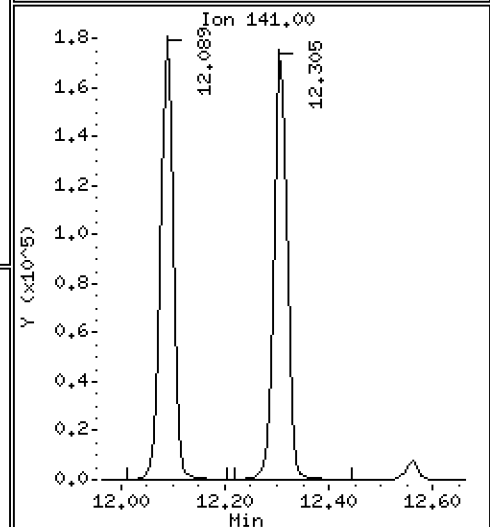
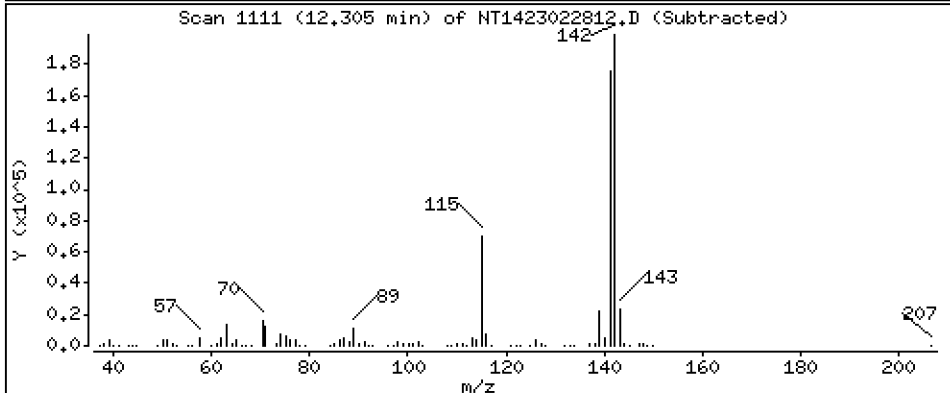
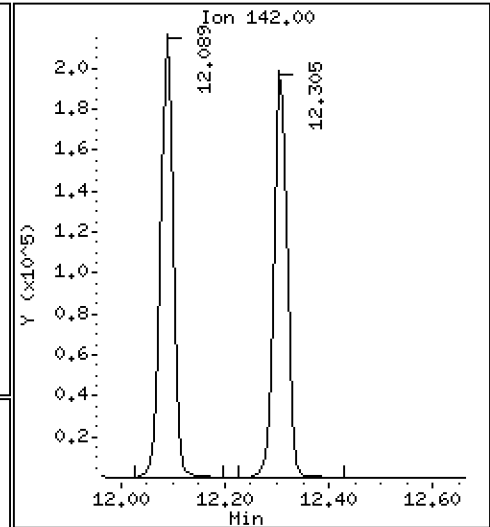
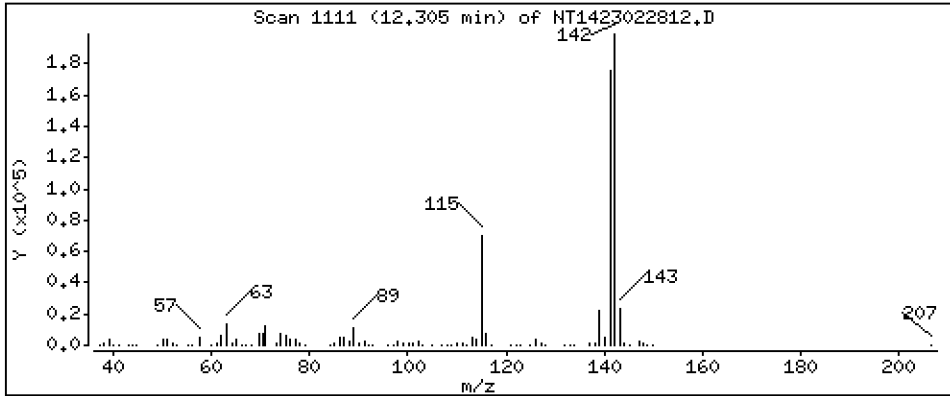
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

105 1-methylnaphthalene

Concentration: 4.871 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

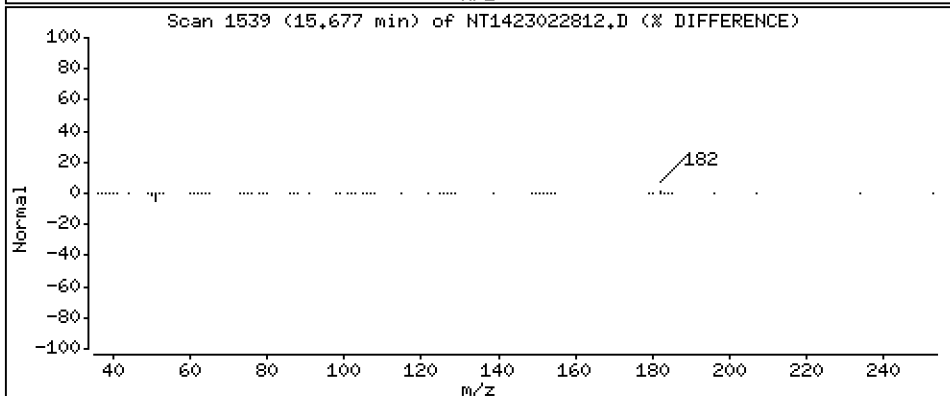
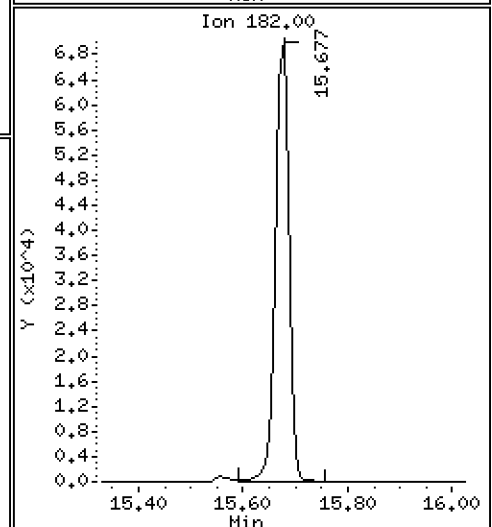
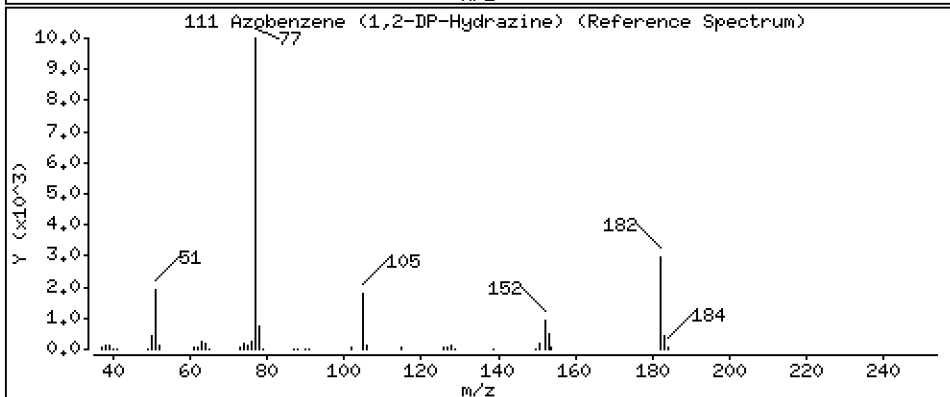
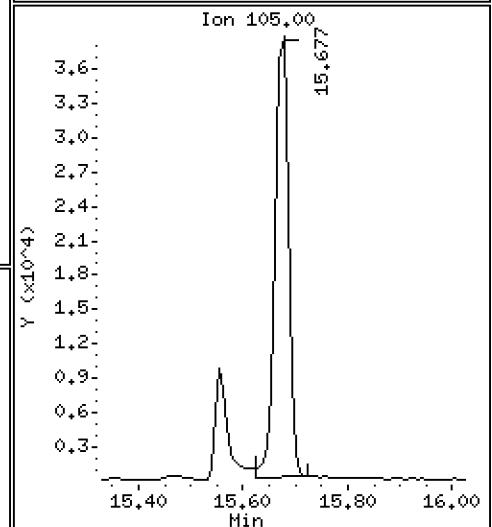
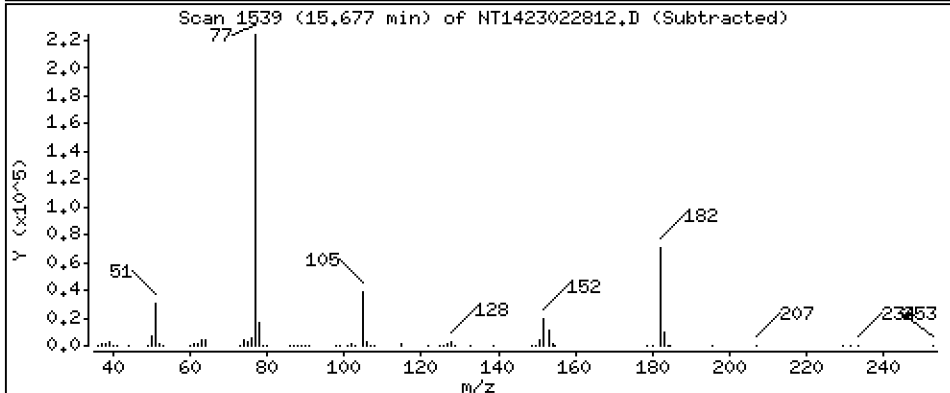
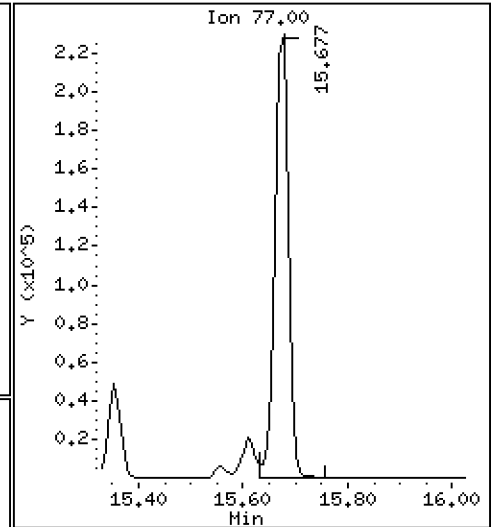
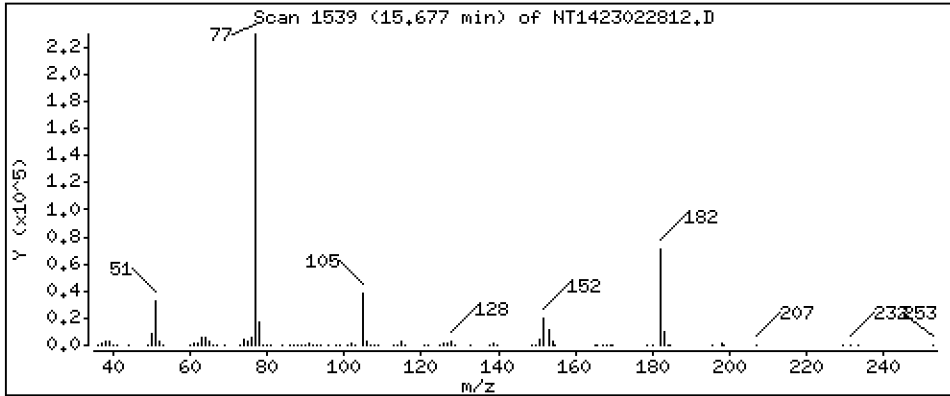
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 5,020 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

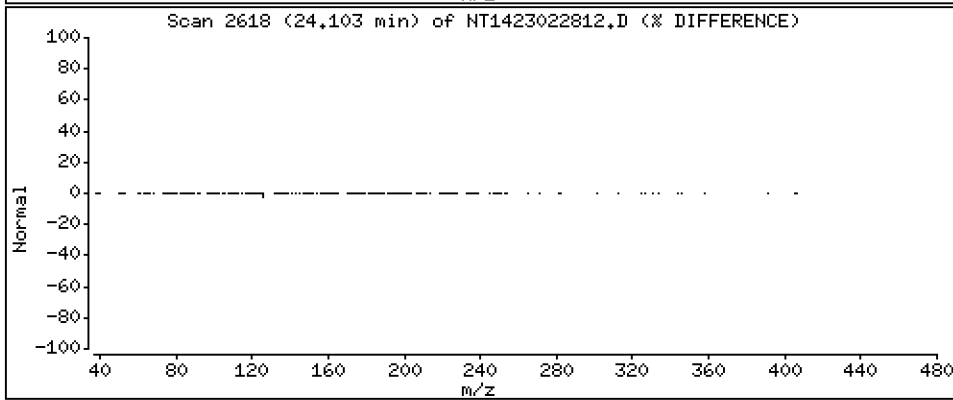
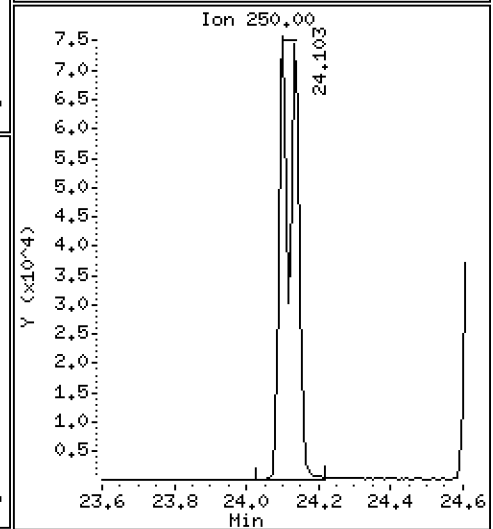
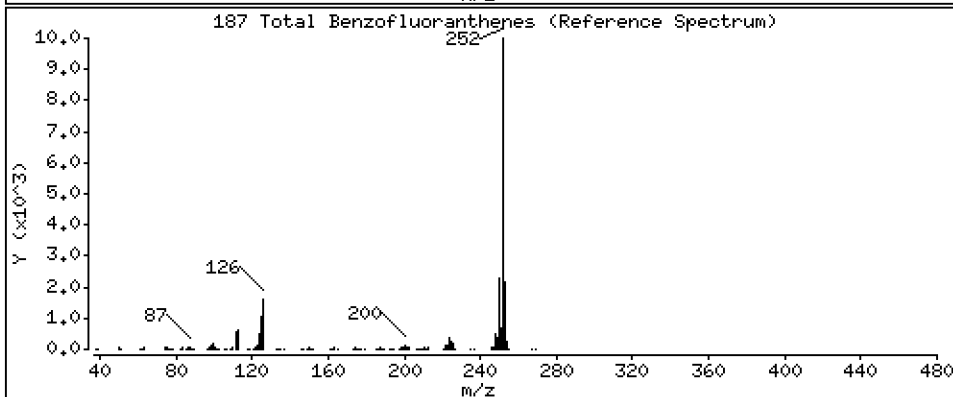
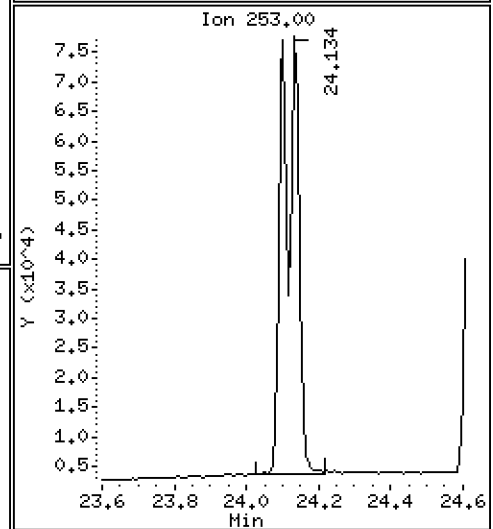
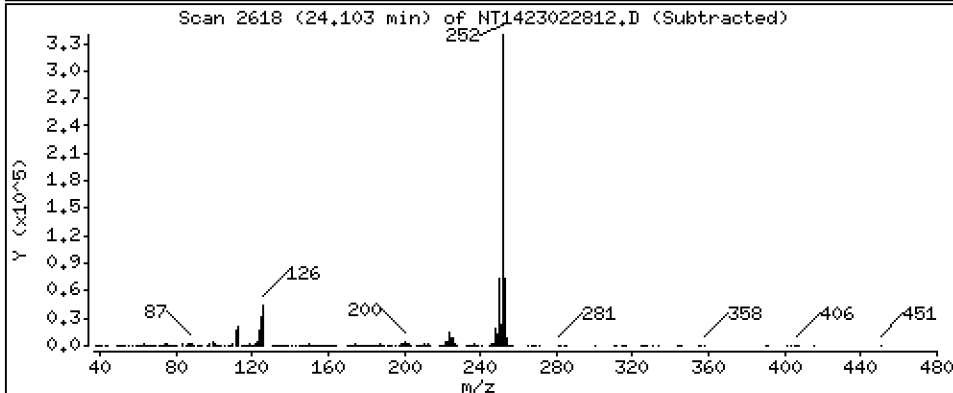
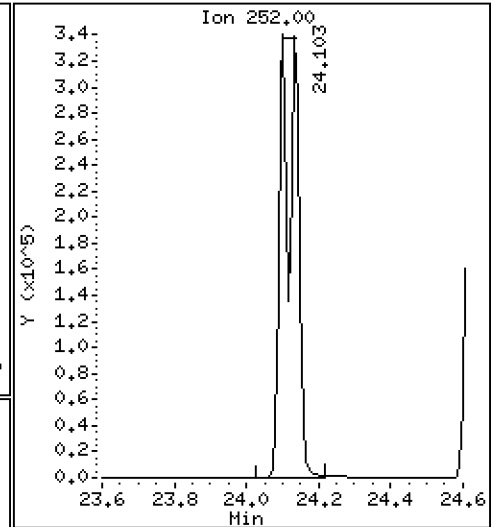
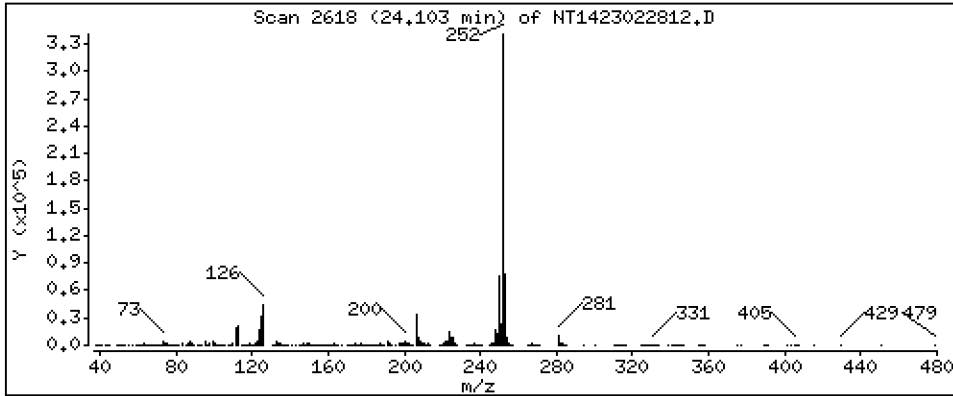
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 9,562 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

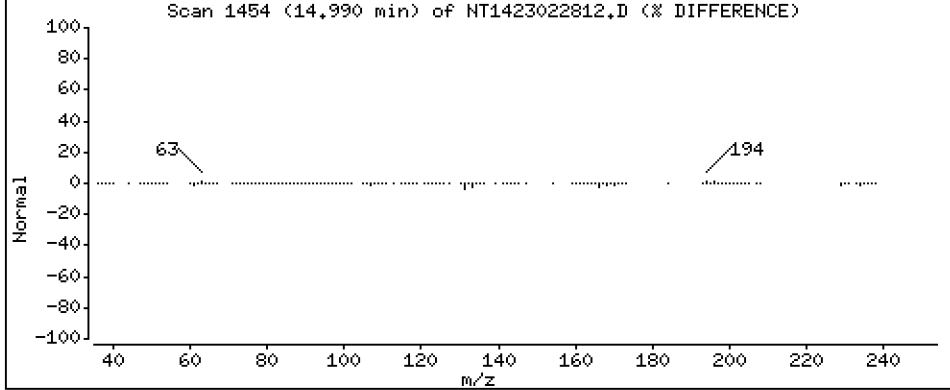
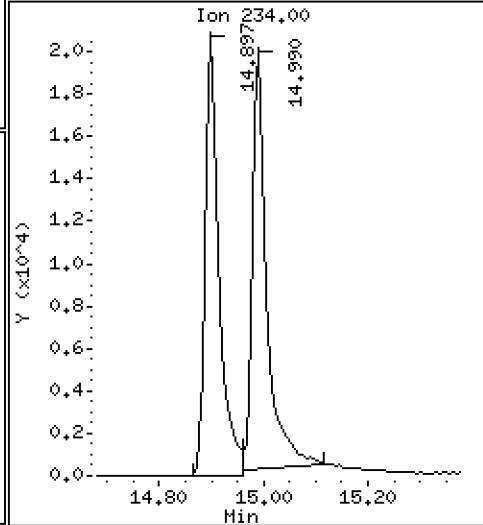
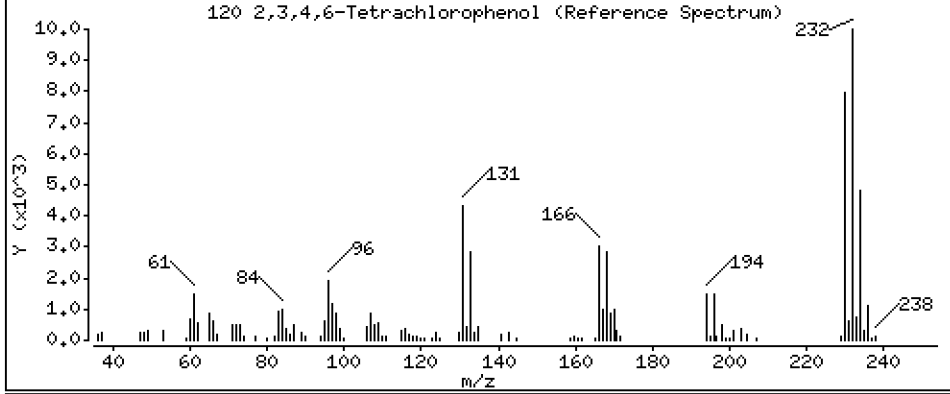
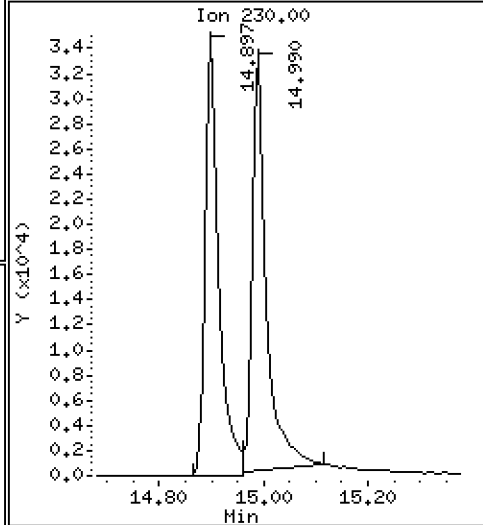
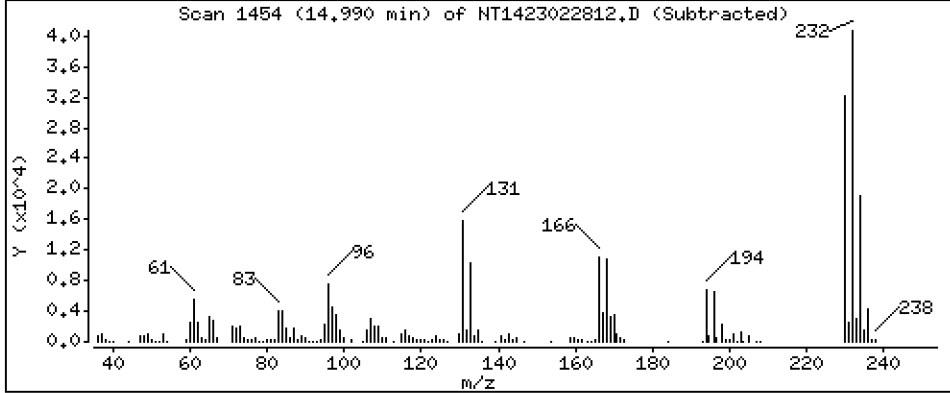
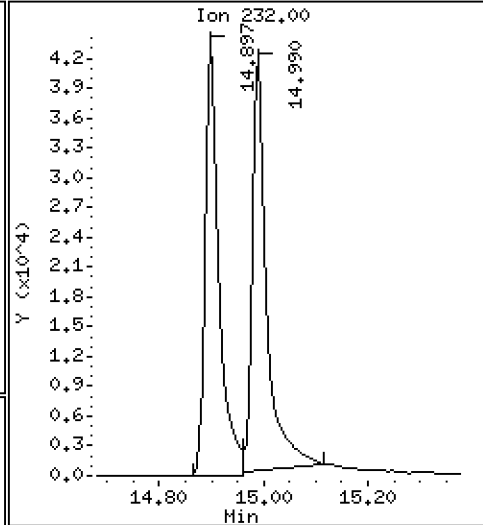
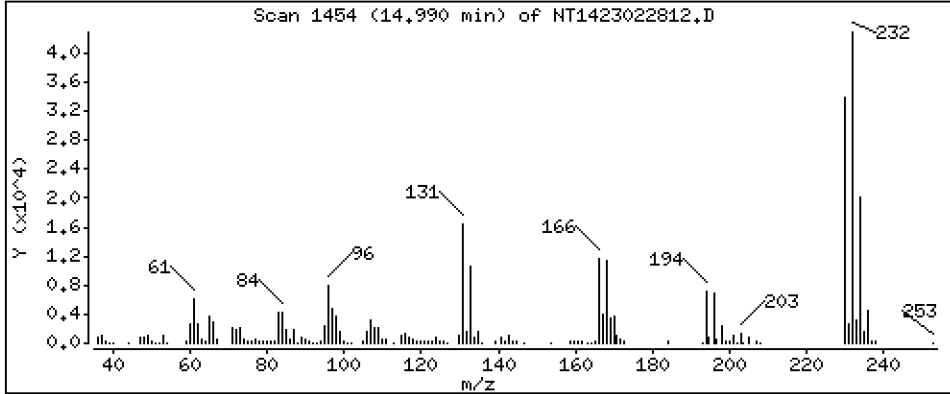
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

120 2,3,4,6-Tetrachlorophenol

Concentration: 3,467 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230228.b\NT1423022812.D
 Lab Smp Id: SLB0374-SCV1
 Inj Date : 28-FEB-2023 17:41 MS Autotune Date: 17-MAY-2011 01:22
 Operator : JGR Inst ID: nt14.i
 Smp Info : SLB0374-SCV1
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt14.i\20230228.b\ABN.m
 Meth Date : 10-Mar-2023 12:09 van Quant Type: ISTD
 Cal Date : 28-FEB-2023 15:16 Cal File: NT1423022808.D
 Als bottle: 12
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: ICAL.sub
 Target Version: 4.14
 Processing Host: VANS-201906

| Compounds | QUANT | SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|---------------------------------|-------|-----|--------|--------|---------|------------------------|----------------|-----------|
| | | | | | | | ON-COLUMN | FINAL |
| | MASS | | | | | | (ug/mL) | (ug/mL) |
| ===== | ==== | | ==== | ===== | ===== | ===== | ===== | ===== |
| \$ 1 2-Fluorophenol | 112 | | | | | Compound Not Detected. | | |
| \$ 2 Phenol-d5 | 99 | | | | | Compound Not Detected. | | |
| 3 Phenol | 94 | | 7.657 | 7.681 | (0.933) | 190853 | 3.93481 | 3.935 |
| \$ 5 2-Chlorophenol-d4 | 132 | | | | | Compound Not Detected. | | |
| 4 Bis(2-Chloroethyl)ether | 93 | | 7.789 | 7.805 | (0.949) | 172225 | 5.22436 | 5.224 |
| 6 2-Chlorophenol | 128 | | 7.889 | 7.905 | (0.961) | 165501 | 4.63235 | 4.632 |
| 7 1,3-Dichlorobenzene | 146 | | 8.145 | 8.153 | (0.992) | 188790 | 4.79491 | 4.795 |
| * 8 1,4-Dichlorobenzene-d4 | 152 | | 8.207 | 8.207 | (1.000) | 105595 | 4.00000 | |
| 9 1,4-Dichlorobenzene | 146 | | 8.238 | 8.246 | (1.004) | 186791 | 4.80018 | 4.800 |
| \$ 10 1,2-Dichlorobenzene-d4 | 152 | | | | | Compound Not Detected. | | |
| 12 1,2-Dichlorobenzene | 146 | | 8.587 | 8.595 | (1.046) | 179357 | 4.80679 | 4.807 |
| 11 Benzyl alcohol | 108 | | 8.509 | 8.688 | (1.037) | 92183 | 4.30388 | 4.304 |
| 14 2,2'-oxybis(1-Chloropropane) | 121 | | 8.804 | 8.812 | (1.073) | 55444 | 5.50978 | 5.510 |
| 13 2-Methylphenol | 108 | | 8.750 | 8.774 | (1.066) | 135033 | 4.40682 | 4.407 |
| 17 Hexachloroethane | 117 | | 9.161 | 9.162 | (1.116) | 74373 | 5.08929 | 5.089 |
| 16 N-Nitroso-di-n-propylamine | 70 | | 9.060 | 9.076 | (1.104) | 119882 | 5.13841 | 5.138 |
| 15 4-Methylphenol | 108 | | 9.029 | 9.069 | (1.100) | 147984 | 4.21848 | 4.218 |
| \$ 18 Nitrobenzene-d5 | 82 | | | | | Compound Not Detected. | | |
| 19 Nitrobenzene | 77 | | 9.332 | 9.356 | (0.875) | 180410 | 5.05930 | 5.059 |
| 20 Isophorone | 82 | | 9.782 | 9.806 | (0.917) | 349645 | 6.41026 | 6.410 |
| 21 2-Nitrophenol | 139 | | 9.961 | 9.992 | (0.934) | 76558 | 4.12597 | 4.126 |
| 22 2,4-Dimethylphenol | 107 | | 10.054 | 10.062 | (0.943) | 126462 | 3.89012 | 3.890 |
| 23 Bis(2-Chloroethoxy)methane | 93 | | 10.240 | 10.256 | (0.960) | 206654 | 5.76434 | 5.764 |
| 24 Benzoic acid | 105 | | 10.309 | 10.665 | (0.967) | 52451 | 4.07142 | 4.071 (M) |
| 25 2,4-Dichlorophenol | 162 | | 10.418 | 10.441 | (0.977) | 154075 | 4.78253 | 4.783 |
| 26 1,2,4-Trichlorobenzene | 180 | | 10.580 | 10.588 | (0.992) | 175958 | 4.78932 | 4.789 |
| * 27 Naphthalene-d8 | 136 | | 10.665 | 10.665 | (1.000) | 379346 | 4.00000 | |
| 28 Naphthalene | 128 | | 10.703 | 10.704 | (1.004) | 482268 | 4.76613 | 4.766 |
| 29 4-Chloroaniline | 127 | | 10.858 | 10.889 | (1.018) | 168576 | 3.89508 | 3.895 |
| 30 Hexachlorobutadiene | 225 | | 11.074 | 11.082 | (1.038) | 107684 | 4.80334 | 4.803 |
| 31 4-Chloro-3-methylphenol | 107 | | 11.848 | 11.872 | (1.111) | 142216 | 4.86015 | 4.860 |
| 32 2-Methylnaphthalene | 142 | | 12.088 | 12.096 | (1.133) | 346575 | 4.62518 | 4.625 |
| 33 Hexachlorocyclopentadiene | 237 | | 12.560 | 12.560 | (0.882) | 109998 | 4.53253 | 4.533 |

| Compounds | QUANT | SIG | | | | | | CONCENTRATIONS | |
|-----------------------------------|-------|-----|------------------------|--------|---------|--------|----------|----------------------|------------------|
| | | | MASS | RT | EXP RT | REL RT | RESPONSE | ON-COLUMN (ug/mL) | FINAL (ug/mL) |
| 34 2,4,6-Trichlorophenol | 196 | | 12.723 | 12.746 | (0.893) | 107803 | 4.78817 | 4.788 | |
| 35 2,4,5-Trichlorophenol | 196 | | 12.800 | 12.831 | (0.898) | 113667 | 4.66940 | 4.669 | |
| § 36 2-Fluorobiphenyl | 172 | | Compound Not Detected. | | | | | | |
| 37 2-Chloronaphthalene | 162 | | 13.071 | 13.079 | (0.917) | 353130 | 4.91059 | 4.911 | |
| 38 2-Nitroaniline | 65 | | 13.357 | 13.373 | (0.938) | 93395 | 4.97969 | 4.980 | |
| 39 Dimethylphthalate | 163 | | 13.806 | 13.814 | (0.969) | 377389 | 5.20568 | 5.206 | |
| 40 Acenaphthylene | 152 | | 13.930 | 13.938 | (0.978) | 524968 | 4.97505 | 4.975 | |
| 41 2,6-Dinitrotoluene | 165 | | 13.930 | 13.938 | (0.978) | 88793 | 5.22670 | 5.227 | |
| * 42 Acenaphthene-d10 | 164 | | 14.247 | 14.247 | (1.000) | 230482 | 4.00000 | | |
| 43 3-Nitroaniline | 138 | | 14.209 | 14.232 | (0.997) | 84775 | 4.86882 | 4.869 | |
| 44 Acenaphthene | 153 | | 14.309 | 14.309 | (1.004) | 322046 | 4.76684 | 4.767 | |
| 45 2,4-Dinitrophenol | 184 | | 14.433 | 14.425 | (1.013) | 10550 | 0.98072 | 0.9807 | |
| 46 Dibenzofuran | 168 | | 14.634 | 14.642 | (1.027) | 507169 | 4.71794 | 4.718 | |
| 47 4-Nitrophenol | 109 | | 14.572 | 14.580 | (1.023) | 34204 | 3.93377 | 3.934 | |
| 48 2,4-Dinitrotoluene | 165 | | 14.726 | 14.734 | (1.034) | 120852 | 4.94149 | 4.941 | |
| 50 Diethylphthalate | 149 | | 15.252 | 15.260 | (1.071) | 367448 | 5.42014 | 5.420 | |
| 49 Fluorene | 166 | | 15.337 | 15.345 | (1.077) | 434135 | 4.79317 | 4.793 | |
| 51 4-Chlorophenyl-phenylether | 204 | | 15.353 | 15.361 | (1.078) | 235392 | 4.88448 | 4.884 | |
| 52 4-Nitroaniline | 138 | | 15.461 | 15.492 | (1.085) | 78705 | 4.55998 | 4.560 | |
| 53 4,6-Dinitro-2-methylphenol | 198 | | 15.554 | 15.608 | (0.902) | 49314 | 3.23357 | 3.234 | |
| 54 N-Nitrosodiphenylamine | 169 | | 15.607 | 15.616 | (0.905) | 286663 | 4.97950 | 4.980 | |
| § 55 2,4,6-Tribromophenol | 330 | | Compound Not Detected. | | | | | | |
| 56 4-Bromophenyl-phenylether | 248 | | 16.348 | 16.348 | (0.948) | 130387 | 5.15173 | 5.152 | |
| 57 Hexachlorobenzene | 284 | | 16.634 | 16.634 | (0.965) | 133283 | 4.78977 | 4.790 | |
| 58 Pentachlorophenol | 266 | | 17.013 | 17.021 | (0.987) | 46829 | 3.52378 | 3.524 (M) | |
| * 59 Phenanthrene-d10 | 188 | | 17.245 | 17.245 | (1.000) | 458109 | 4.00000 | | |
| 60 Phenanthrene | 178 | | 17.291 | 17.300 | (1.003) | 562433 | 4.61514 | 4.615 | |
| 61 Anthracene | 178 | | 17.384 | 17.392 | (1.008) | 486699 | 4.22447 | 4.224 | |
| 62 Carbazole | 167 | | 17.732 | 17.748 | (1.028) | 482242 | 4.77590 | 4.776 | |
| 63 Di-n-butylphthalate | 149 | | 18.599 | 18.599 | (1.079) | 617439 | 4.81920 | 4.819 | |
| 64 Fluoranthene | 202 | | 19.713 | 19.721 | (0.881) | 680212 | 5.10377 | 5.104 | |
| 65 Pyrene | 202 | | 20.139 | 20.147 | (0.900) | 696600 | 4.95743 | 4.957 | |
| § 66 Terphenyl-d14 | 244 | | Compound Not Detected. | | | | | | |
| 67 Butylbenzylphthalate | 149 | | 21.439 | 21.447 | (0.958) | 242201 | 4.96478 | 4.965 | |
| 68 Benzo(a)anthracene | 228 | | 22.338 | 22.338 | (0.999) | 578542 | 4.91658 | 4.917 | |
| * 69 Chrysene-d12 | 240 | | 22.368 | 22.361 | (1.000) | 351284 | 4.00000 | | |
| 70 3,3'-Dichlorobenzidine | 252 | | 22.322 | 22.330 | (0.998) | 345809 | 10.2906 | 10.29 | |
| 71 Chrysene | 228 | | 22.407 | 22.415 | (1.002) | 515316 | 4.55608 | 4.556 | |
| 72 bis(2-Ethylhexyl)phthalate | 149 | | 22.500 | 22.500 | (0.958) | 338426 | 5.27680 | 5.277 | |
| * 134 Di-n-octylphthalate-d4 | 153 | | 23.476 | 23.476 | (1.000) | 422614 | 4.00000 | | |
| 73 Di-n-octylphthalate | 149 | | 23.483 | 23.484 | (1.000) | 576704 | 5.18281 | 5.183 | |
| 74 Benzo(b)fluoranthene | 252 | | 24.103 | 24.103 | (0.975) | 541825 | 4.87157 | 4.872 | |
| 75 Benzo(k)fluoranthene | 252 | | 24.134 | 24.134 | (0.977) | 559543 | 4.66326 | 4.663 | |
| 76 Benzo(a)pyrene | 252 | | 24.614 | 24.622 | (0.996) | 466252 | 4.88626 | 4.886 | |
| * 77 Perylene-d12 | 264 | | 24.714 | 24.715 | (1.000) | 336637 | 4.00000 | | |
| 78 Indeno(1,2,3-cd)pyrene | 276 | | 26.785 | 26.793 | (1.084) | 587567 | 4.89167 | 4.892 | |
| 79 Dibenzo(a,h)anthracene | 278 | | 26.800 | 26.800 | (1.084) | 500585 | 4.90681 | 4.907 | |
| 80 Benzo(g,h,i)perylene | 276 | | 27.383 | 27.391 | (1.108) | 508988 | 4.85849 | 4.858 | |
| 90 N-Nitrosodimethylamine | 74 | | 3.988 | 4.104 | (0.486) | 94230 | 4.50713 | 4.507 | |
| 91 Aniline | 93 | | Compound Not Detected. | | | | | | |
| 93 Benzidine | 184 | | 19.999 | 20.015 | (0.894) | 253209 | 4.50911 | 4.509 | |
| 103 Pyridine | 79 | | 4.004 | 4.027 | (0.488) | 137878 | 2.19631 | 2.196 | |
| 105 1-methylnaphthalene | 142 | | 12.305 | 12.313 | (1.154) | 335999 | 4.87061 | 4.871 | |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77 | | 15.677 | 15.677 | (1.100) | 390699 | 5.02002 | 5.020 | |

| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|-------------------------------|-----------|--------|--------|---------|----------|----------------------|------------------|
| | | | | | | ON-COLUMN (ug/mL) | FINAL (ug/mL) |
| 187 Total Benzofluoranthenes | 252 | 24.103 | 24.103 | (0.975) | 1040320 | 9.56184 | 9.562 |
| 120 2,3,4,6-Tetrachlorophenol | 232 | 14.989 | 15.029 | (1.052) | 91471 | 3.46740 | 3.467 |

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 28-FEB-2023
 Lab File ID: NT1423022812.D Calibration Time: 12:51
 Lab Smp Id: SLB0374-SCV1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: JGR
 Method File: \\target\share\chem3\nt14.i\20230228.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|--------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 114351 | 57176 | 228702 | 105595 | -7.66 |
| 27 Naphthalene-d8 | 408655 | 204328 | 817310 | 379346 | -7.17 |
| 42 Acenaphthene-d10 | 254000 | 127000 | 508000 | 230482 | -9.26 |
| 59 Phenanthrene-d10 | 490626 | 245313 | 981252 | 458109 | -6.63 |
| 69 Chrysene-d12 | 390400 | 195200 | 780800 | 351284 | -10.02 |
| 134 Di-n-octylphthala | 500829 | 250415 | 1001658 | 422614 | -15.62 |
| 77 Perylene-d12 | 375675 | 187838 | 751350 | 336637 | -10.39 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 8.21 | 7.71 | 8.71 | 8.21 | -0.09 |
| 27 Naphthalene-d8 | 10.67 | 10.17 | 11.17 | 10.67 | 0.00 |
| 42 Acenaphthene-d10 | 14.25 | 13.75 | 14.75 | 14.25 | 0.00 |
| 59 Phenanthrene-d10 | 17.25 | 16.75 | 17.75 | 17.25 | -0.04 |
| 69 Chrysene-d12 | 22.38 | 21.88 | 22.88 | 22.37 | -0.03 |
| 134 Di-n-octylphthala | 23.48 | 22.98 | 23.98 | 23.48 | -0.03 |
| 77 Perylene-d12 | 24.72 | 24.22 | 25.22 | 24.71 | -0.03 |

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

REVIEW SUMMARY FOR FILE - NT1423022812.D

Lab ID: SLB0374-SCV1
nt14.i, ABN.m, 28-FEB-2023 17:41

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

** FIRST SURROGATE NOT FOUND. ICAL Check not performed **

RRT CHECK

| RRT | CCV RRT | DELTA | COMPOUND |
|-------|---------|---------|------------------------|
| 1.037 | 1.059 | -0.0218 | Benzyl alcohol |
| 0.967 | 0.000 | 0.9667 | Benzoic acid |
| 1.013 | 0.000 | 1.0130 | 2,4-Dinitrophenol |
| 1.023 | 0.000 | 1.0228 | 4-Nitrophenol |
| 0.987 | 0.000 | 0.9865 | Pentachlorophenol |
| 0.486 | 0.500 | -0.0141 | N-Nitrosodimethylamine |
| 0.488 | 0.000 | 0.4879 | Pyridine |

RRT check based on Ccal File: NT1423022808.D

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

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

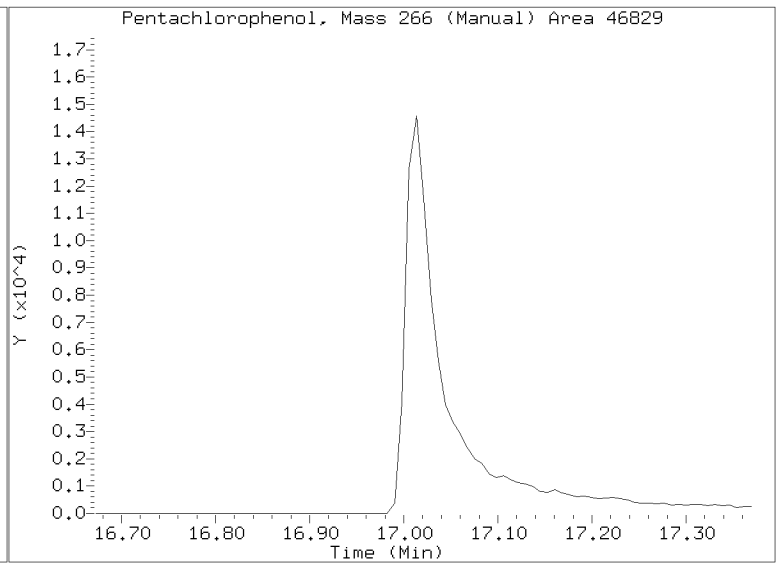
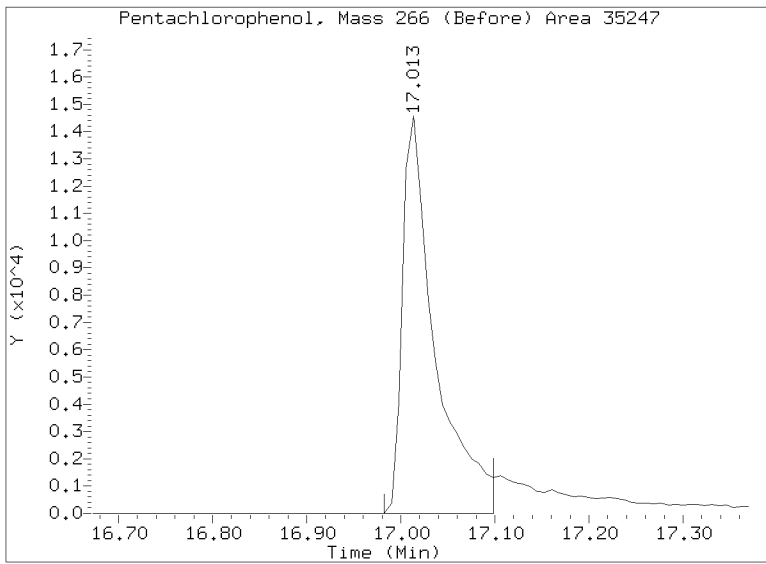
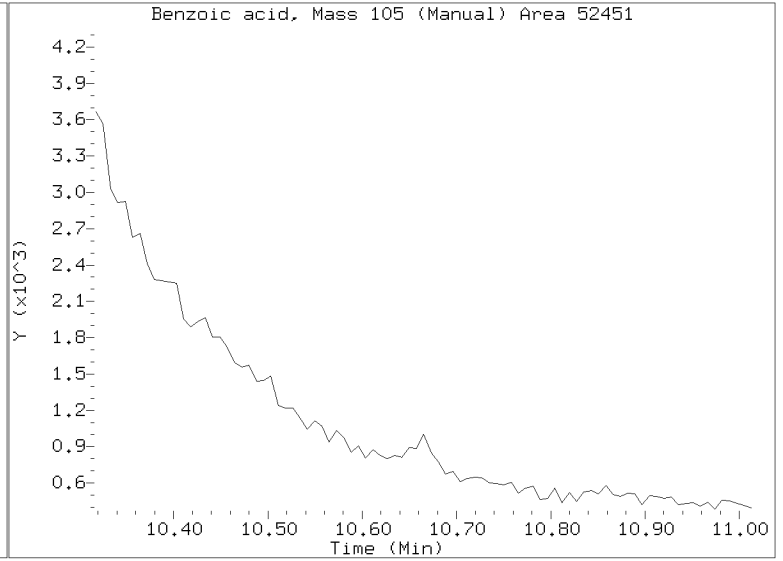
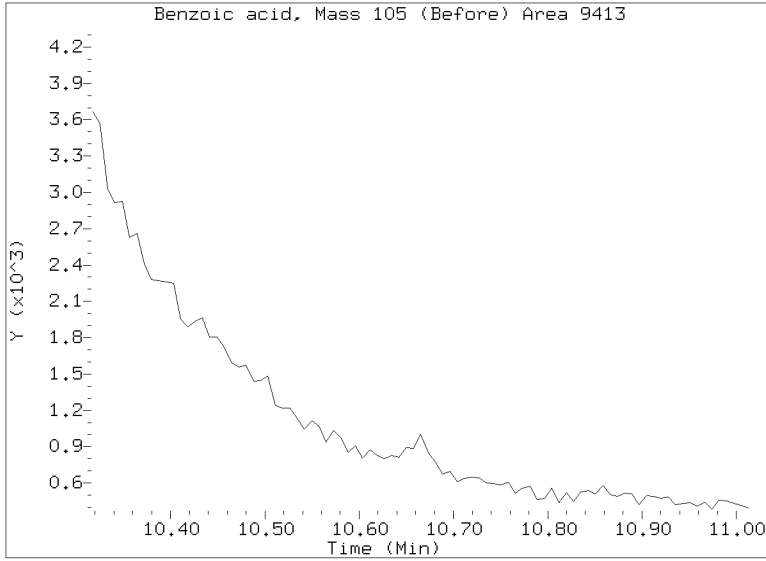
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230228.b/NT1423022812.D

Injection Date: 28-FEB-2023 17:41

Lab ID:SLB0374-SCV1 Client ID:

Report Date: 03/10/2023 13:21





SECOND-SOURCE CALIBRATION VERIFICATION
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Calibration: GC00046

Laboratory ID: SLC0228-SCV1

Sequence: SLC0228

Sequence Name: SCV 5.0

Standard ID: L002833

| ANALYTE | EXPECTED (ug/mL) | FOUND (ug/mL) | % DRIFT | QC LIMIT |
|----------------------------|---------------------|------------------|---------|----------|
| Phenol | 5.0000 | 4.4 | -11.8 | 20.00 |
| 4-Methylphenol | 5.0000 | 4.4 | -12.7 | 20.00 |
| Naphthalene | 5.0000 | 4.7 | -5.7 | 20.00 |
| 2-Methylnaphthalene | 5.0000 | 4.6 | -8.1 | 20.00 |
| Acenaphthylene | 5.0000 | 4.8 | -3.9 | 20.00 |
| Dimethylphthalate | 5.0000 | 4.9 | -1.3 | 20.00 |
| Acenaphthene | 5.0000 | 4.8 | -4.5 | 20.00 |
| Dibenzofuran | 5.0000 | 4.6 | -7.0 | 20.00 |
| Fluorene | 5.0000 | 4.7 | -5.8 | 20.00 |
| Phenanthrene | 5.0000 | 4.6 | -8.0 | 20.00 |
| Anthracene | 5.0000 | 4.2 | -16.7 | 20.00 |
| Fluoranthene | 5.0000 | 4.5 | -10.6 | 20.00 |
| Pyrene | 5.0000 | 4.3 | -13.2 | 20.00 |
| Butylbenzylphthalate | 5.0000 | 4.8 | -3.3 | 20.00 |
| Benzo(a)anthracene | 5.0000 | 4.6 | -7.1 | 20.00 |
| Chrysene | 5.0000 | 4.5 | -9.8 | 20.00 |
| bis(2-Ethylhexyl)phthalate | 5.0000 | 4.7 | -6.4 | 20.00 |
| Benzofluoranthenes, Total | 10.0000 | 9.5 | -5.2 | 20.00 |
| Benzo(a)pyrene | 5.0000 | 4.9 | -2.5 | 20.00 |
| Indeno(1,2,3-cd)pyrene | 5.0000 | 4.6 | -8.5 | 20.00 |
| Dibenzo(a,h)anthracene | 5.0000 | 4.5 | -9.1 | 20.00 |
| Benzo(g,h,i)perylene | 5.0000 | 4.6 | -8.2 | 20.00 |

* Indicates values outside of QC limits

Data File: \\target\share\chem3\nt10.1\20230315.6\NT10031511.D

Date: 16-MAR-2023 02:16

Client ID:

Sample Info: SLC0228-SCV1

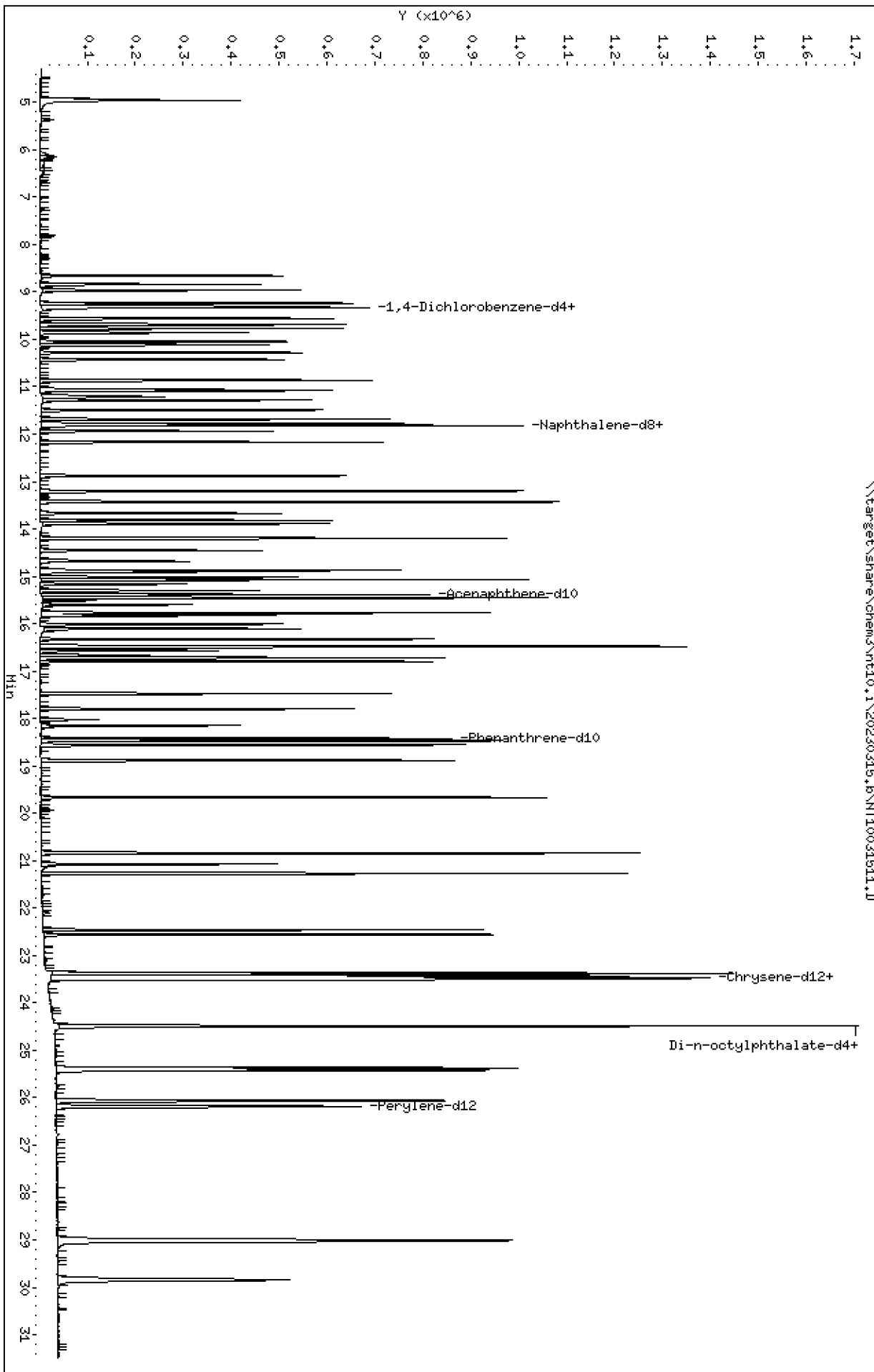
Column phase: ZB-5msi

Instrument: nt10.1

Operator: VTS

Column diameter: 0.25

\\target\share\chem3\nt10.1\20230315.6\NT10031511.D



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

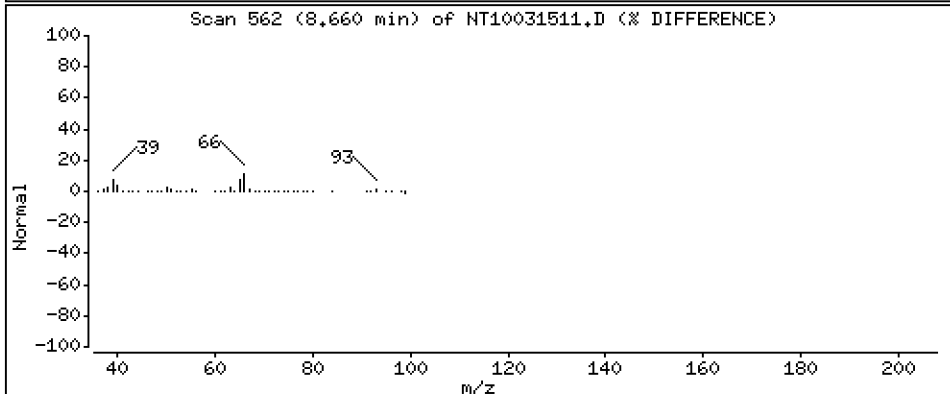
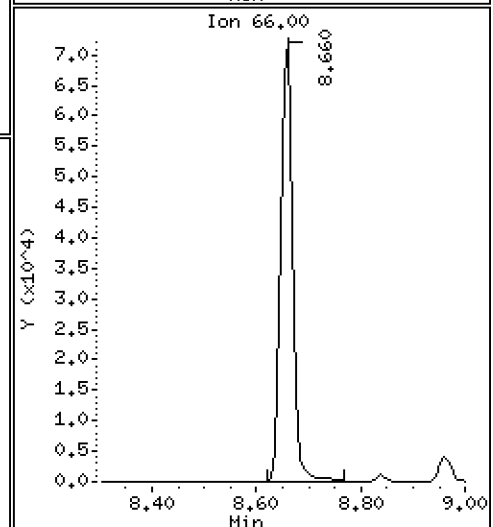
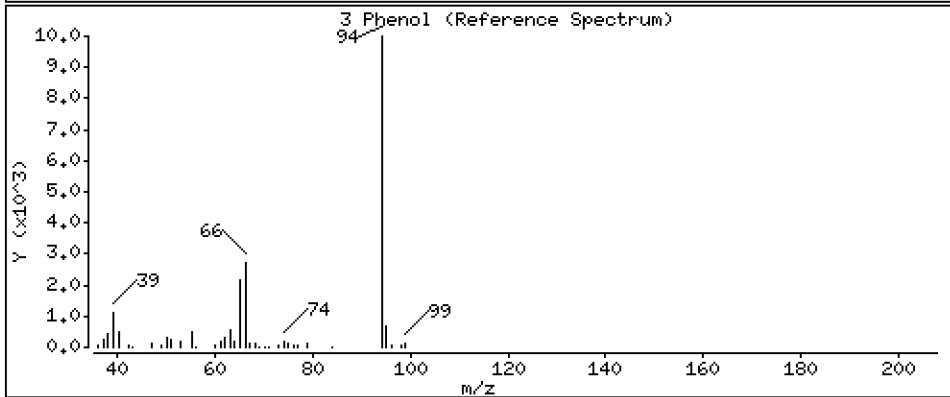
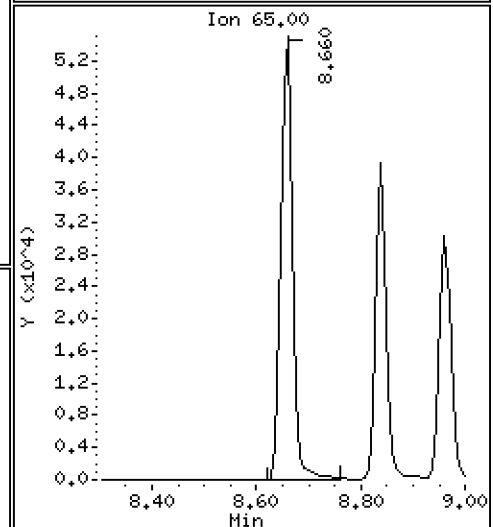
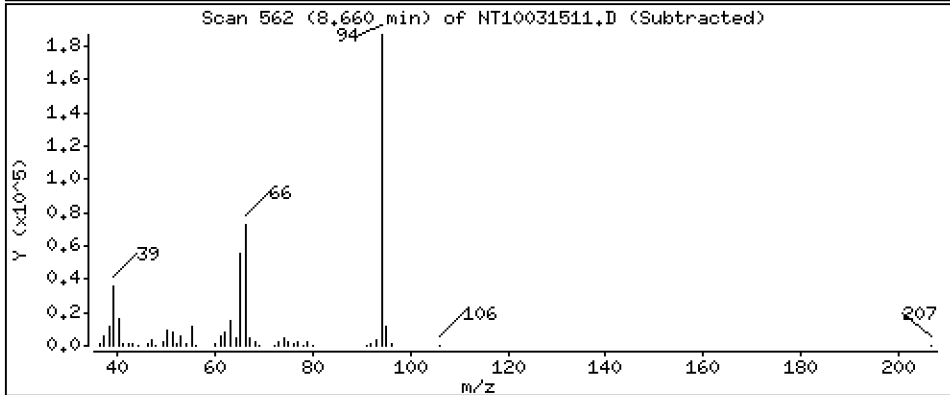
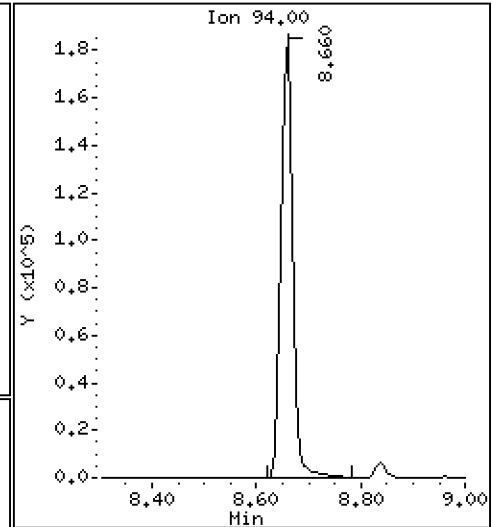
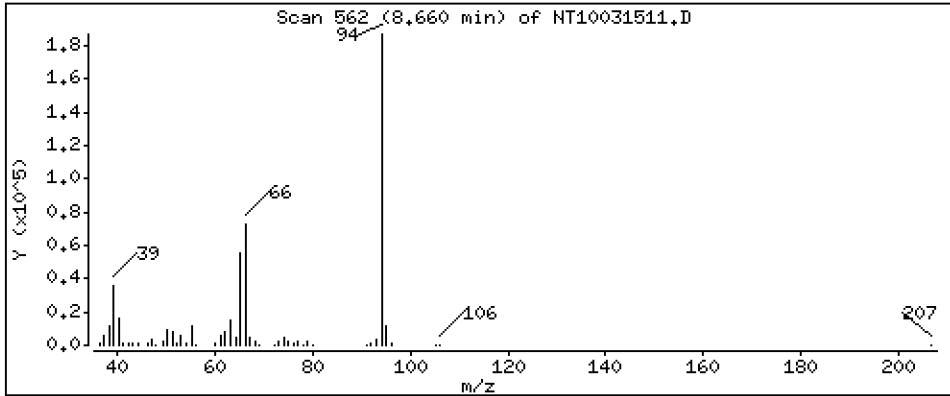
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 4,412 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

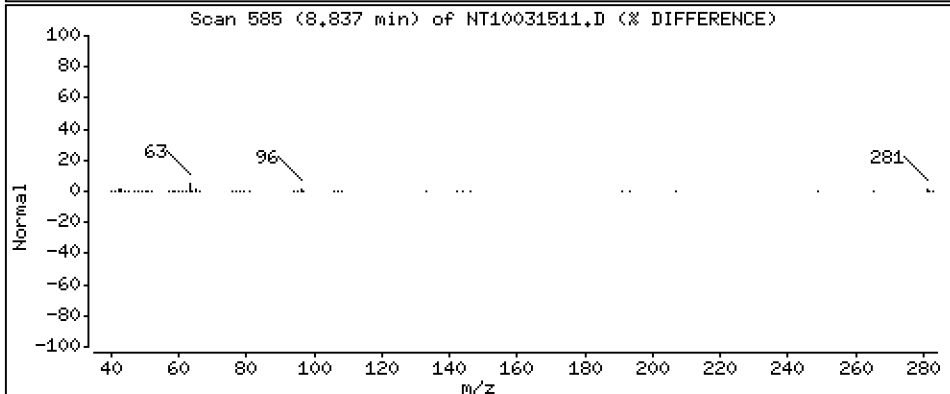
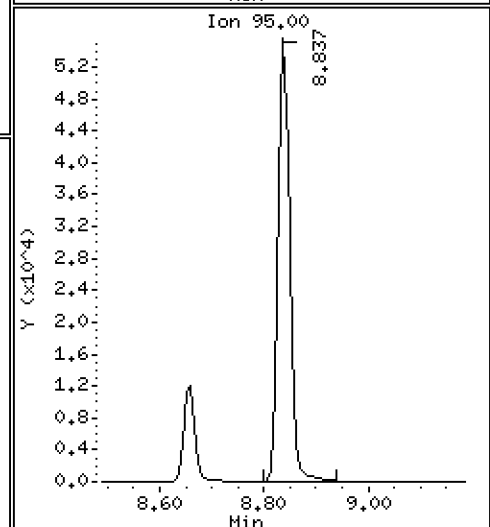
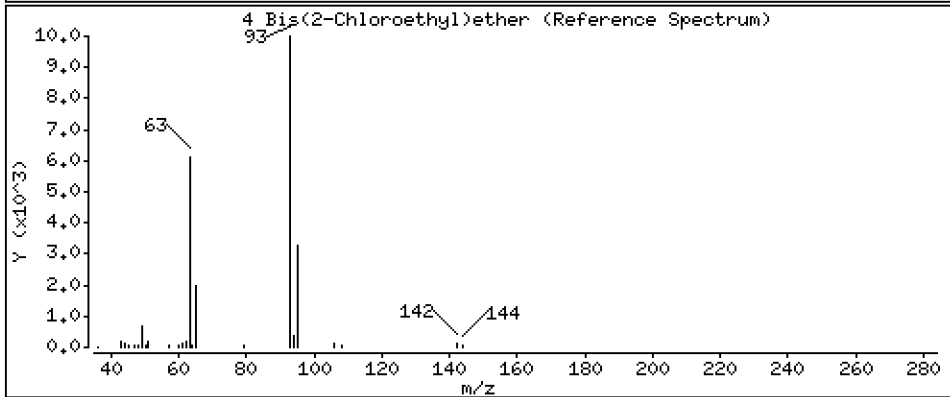
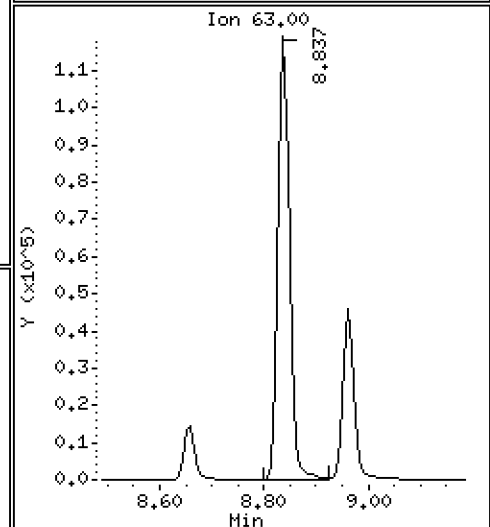
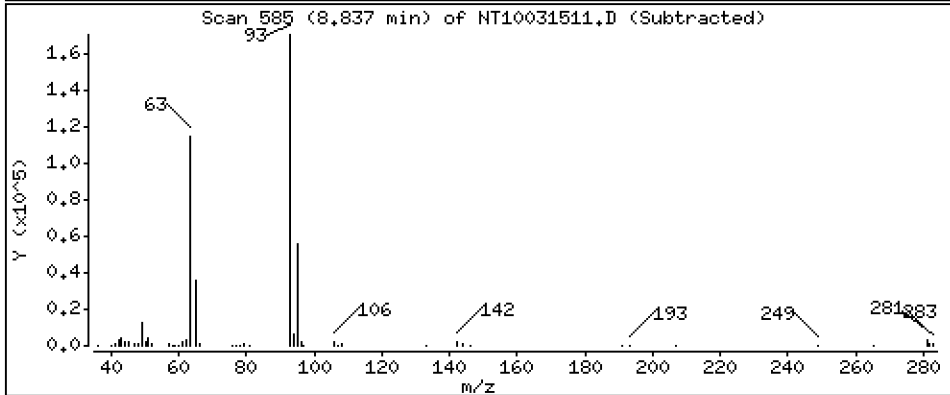
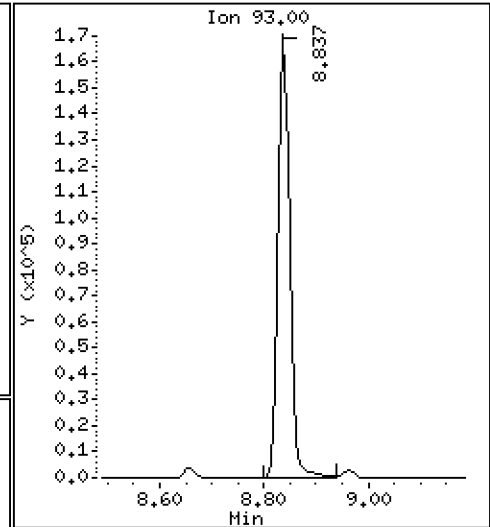
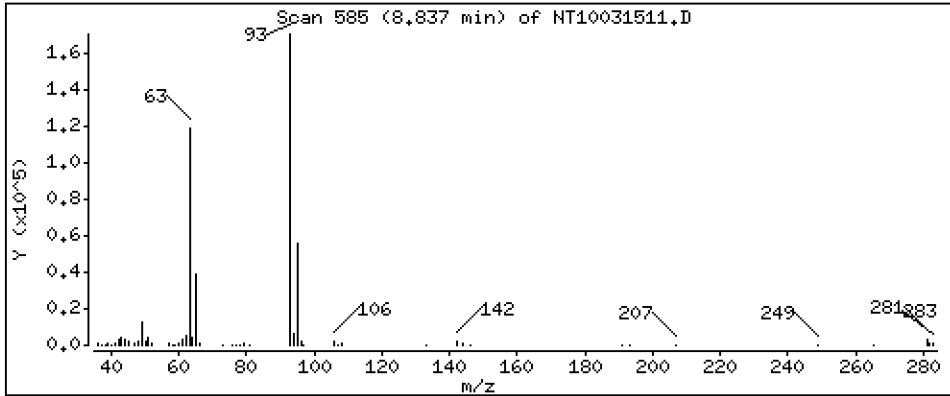
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

4 Bis(2-Chloroethyl)ether

Concentration: 5,258 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

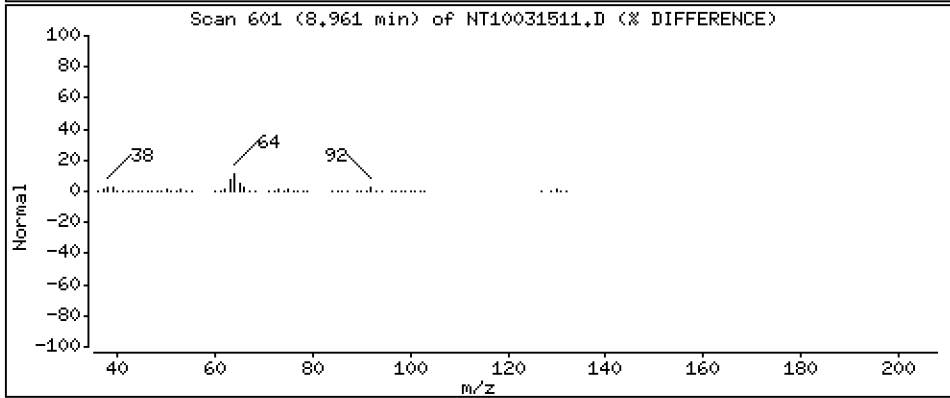
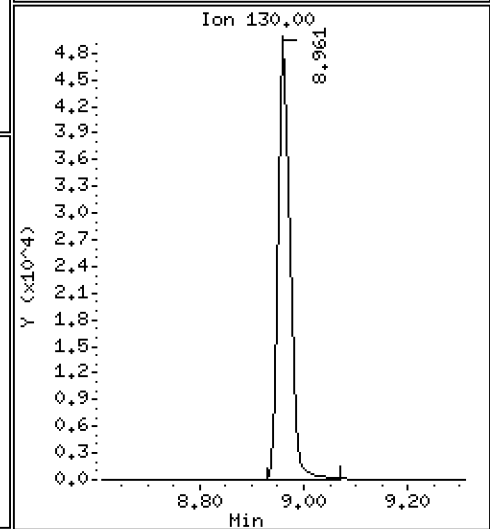
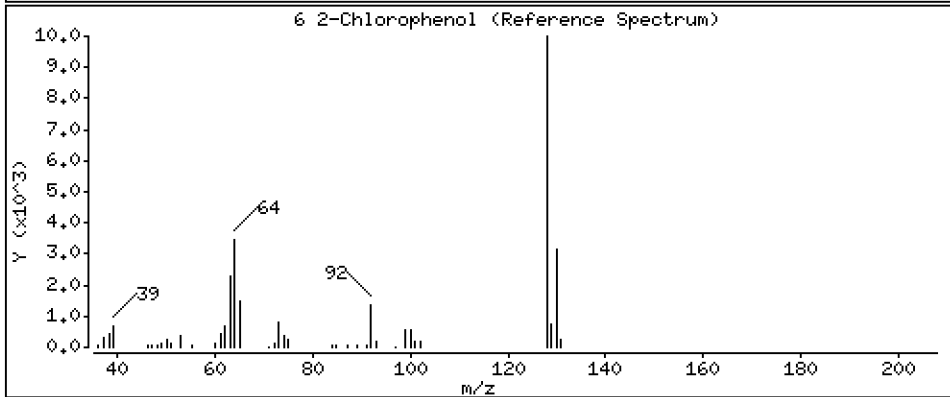
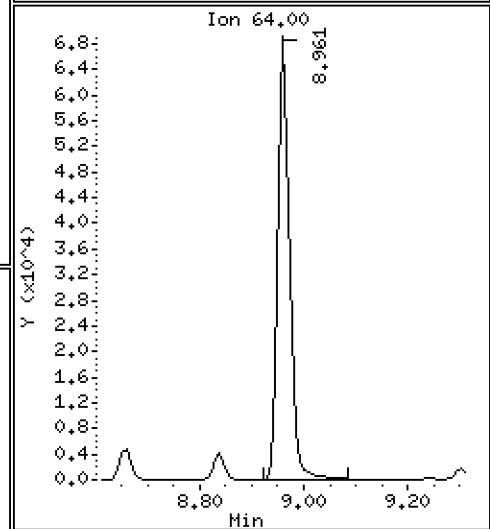
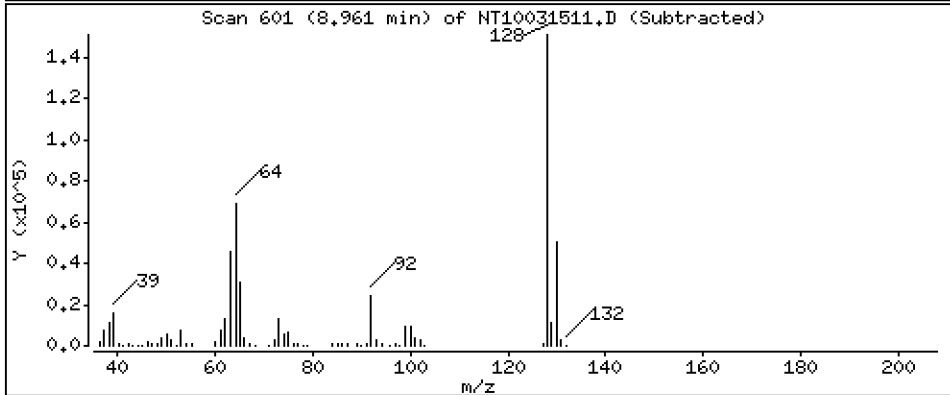
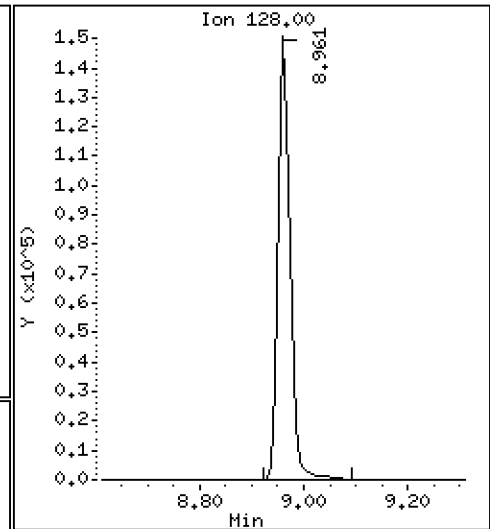
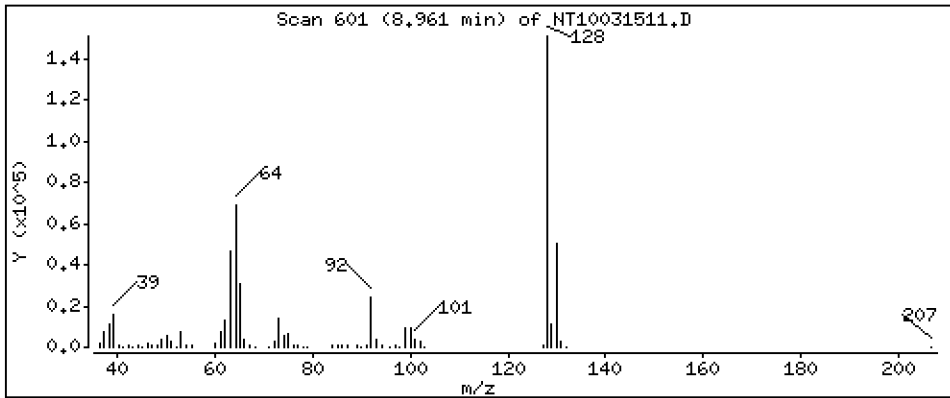
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 4,277 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

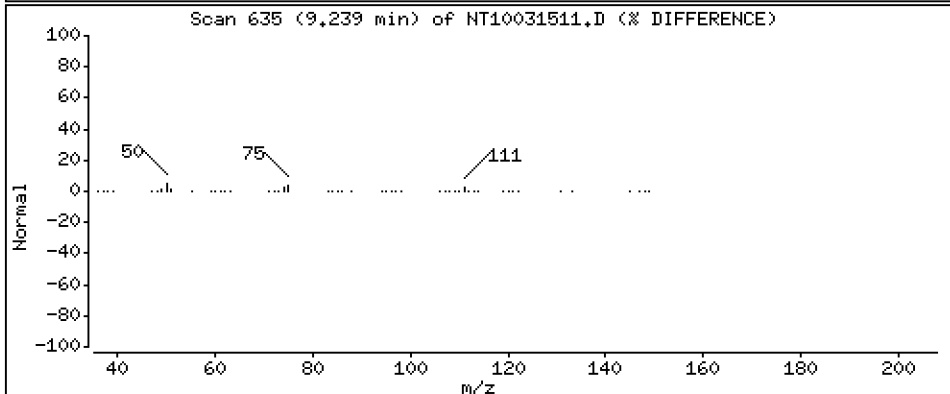
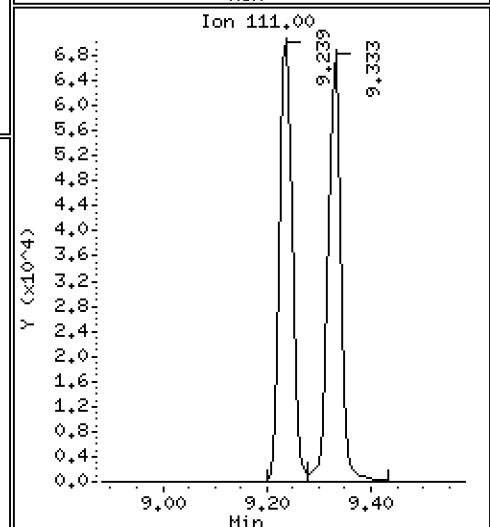
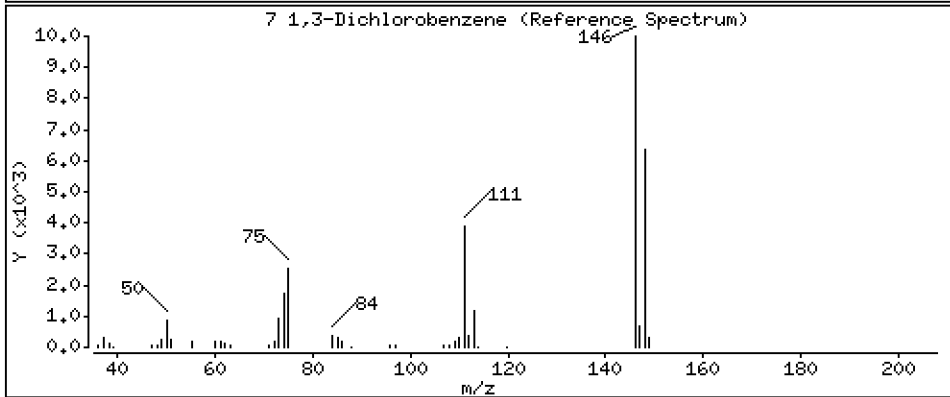
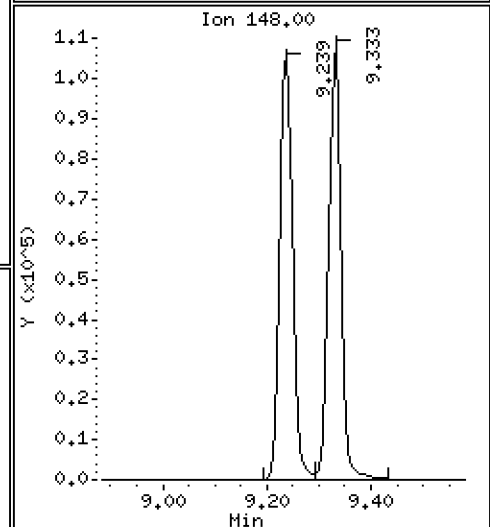
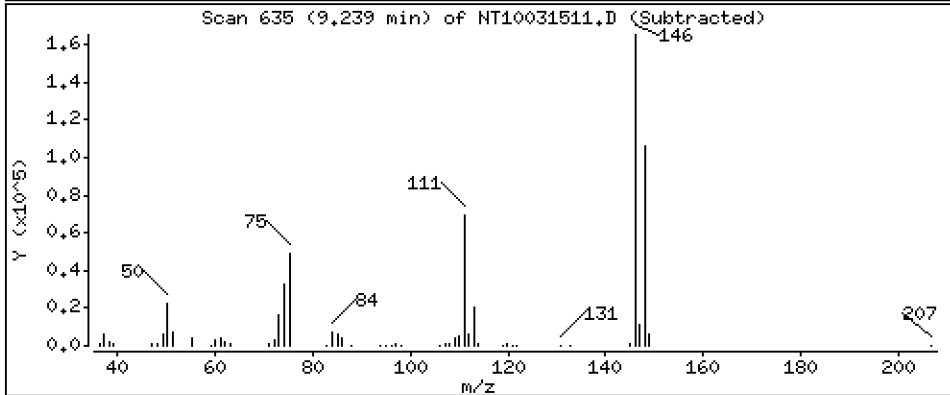
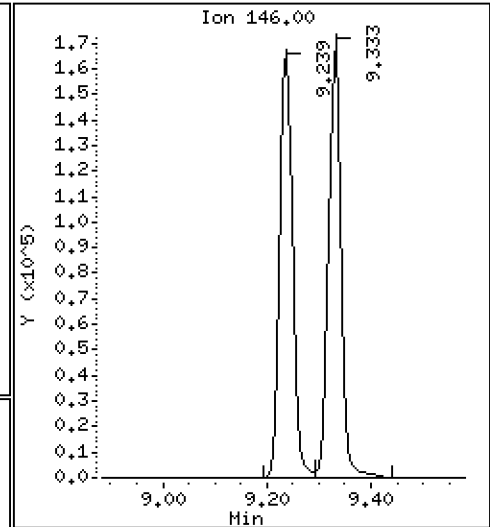
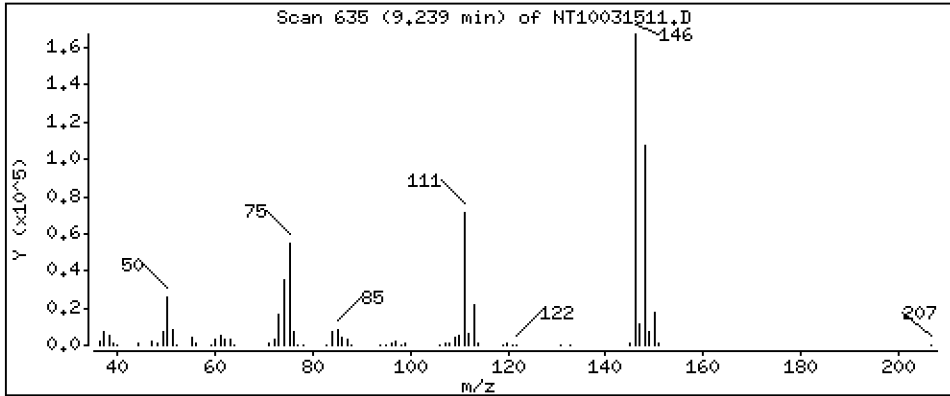
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

7 1,3-Dichlorobenzene

Concentration: 4.772 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

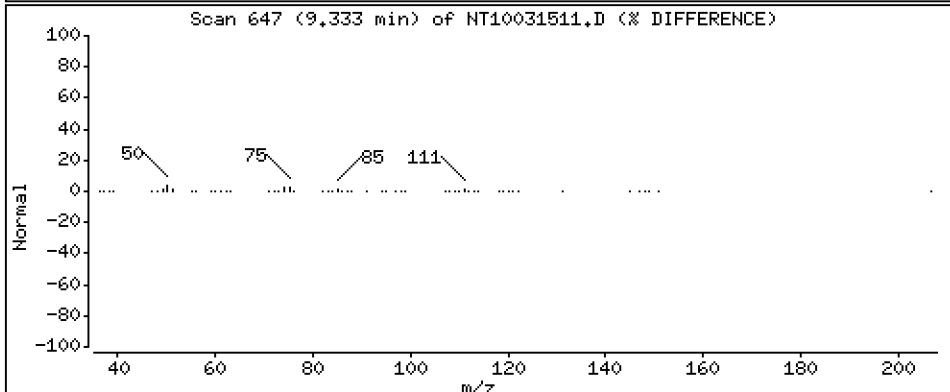
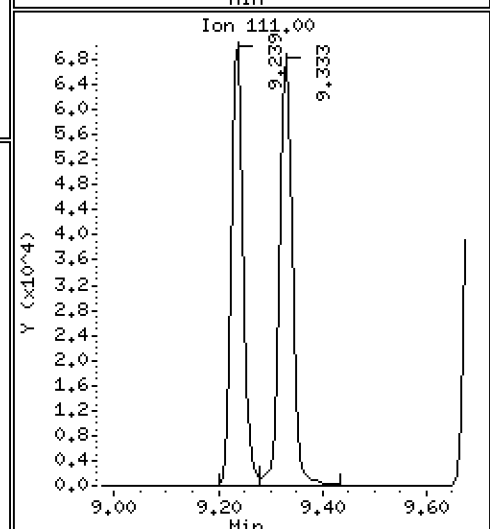
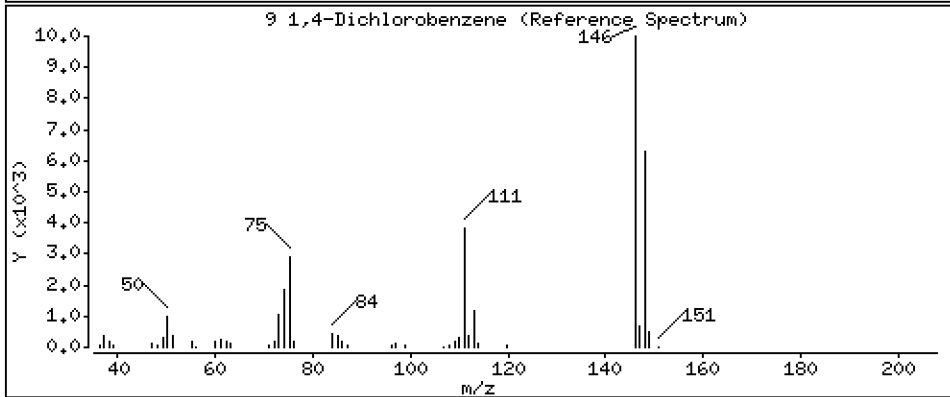
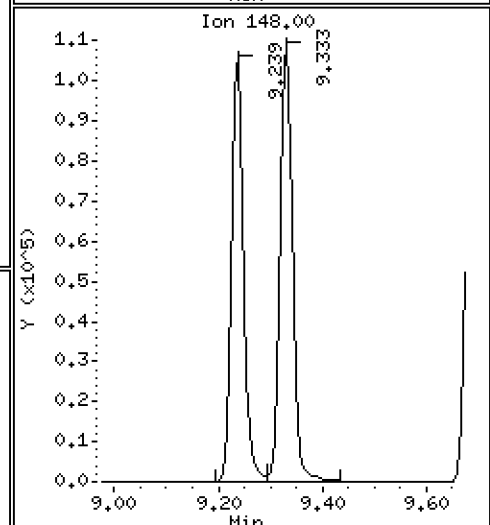
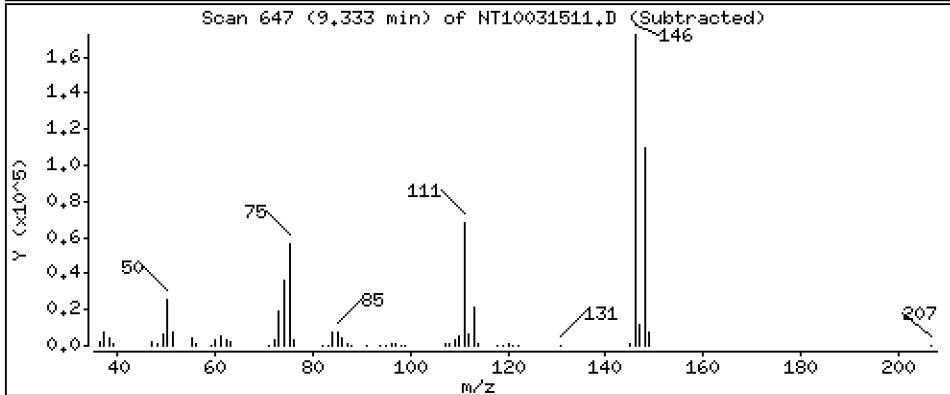
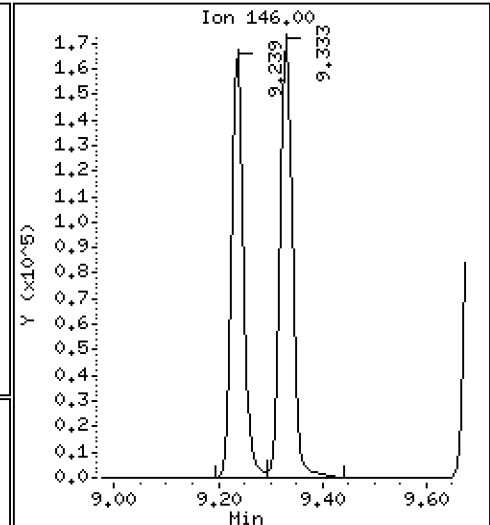
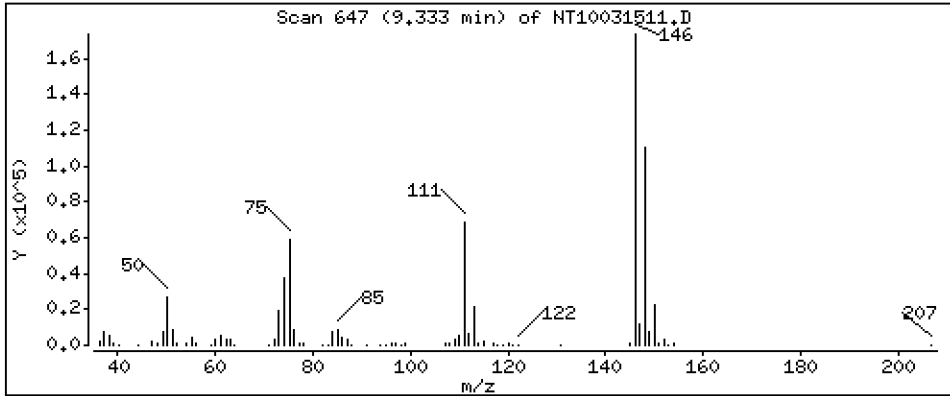
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 4,913 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

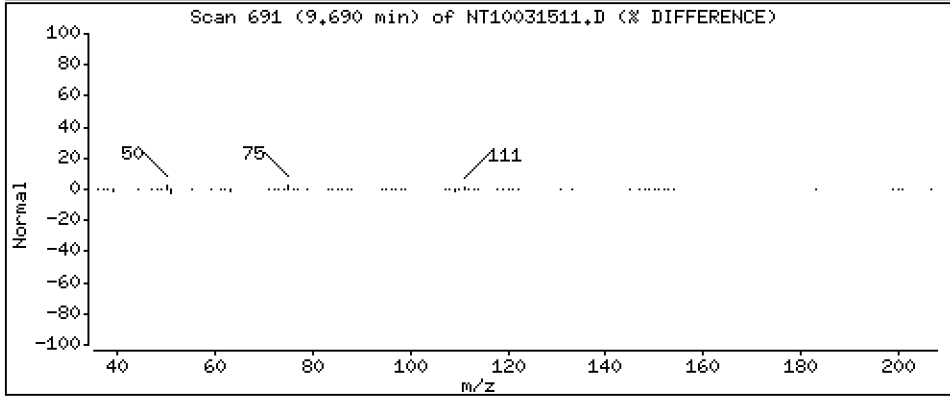
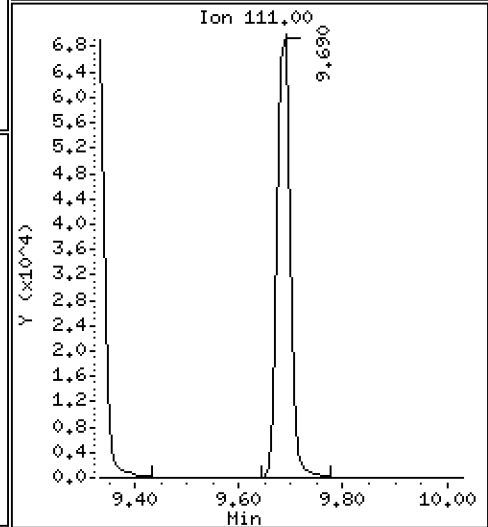
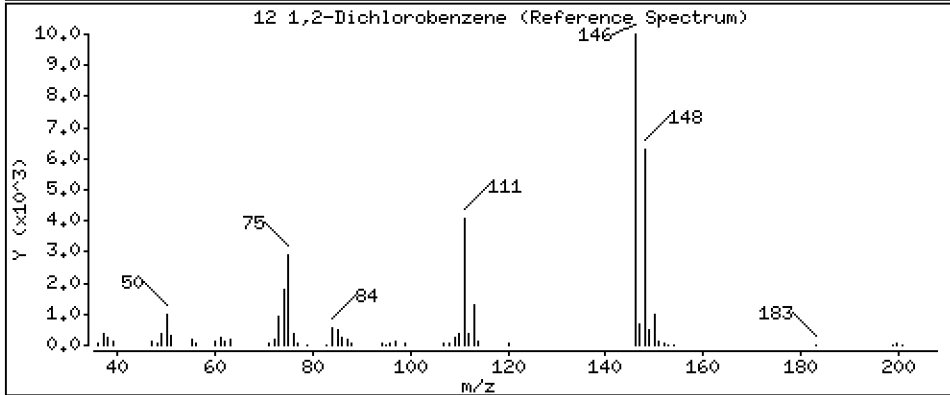
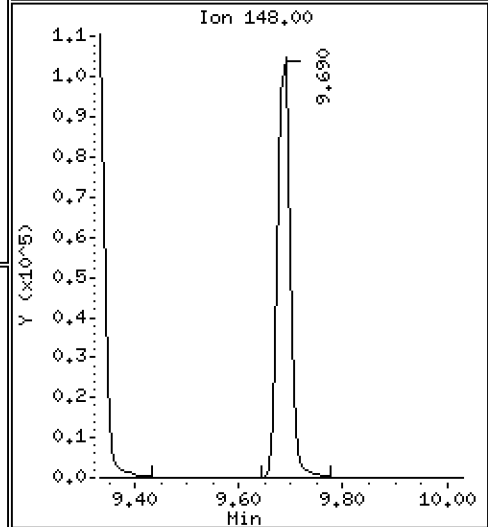
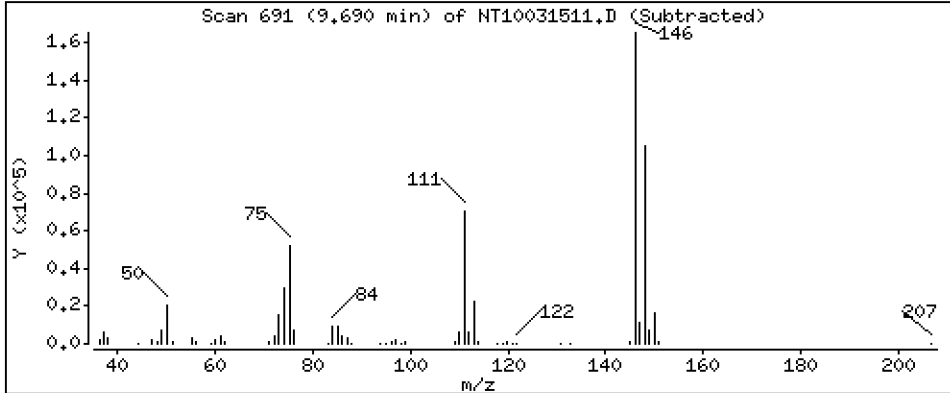
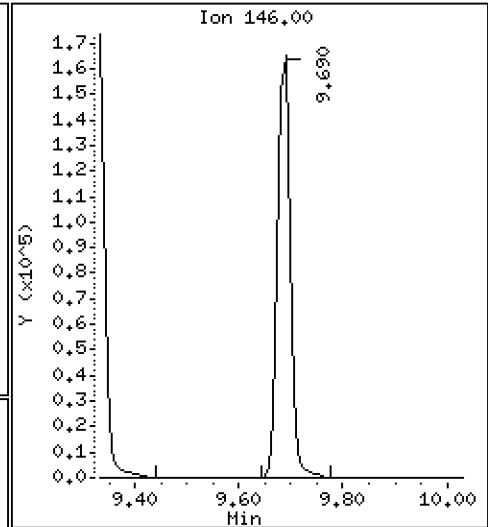
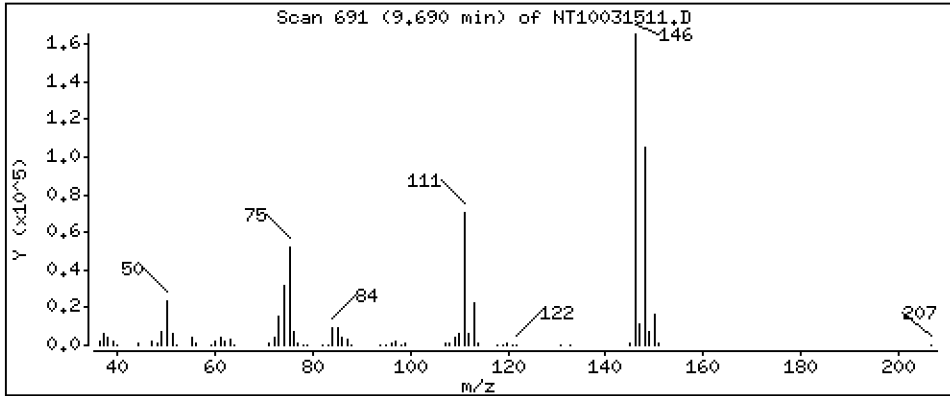
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

12 1,2-Dichlorobenzene

Concentration: 4,882 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

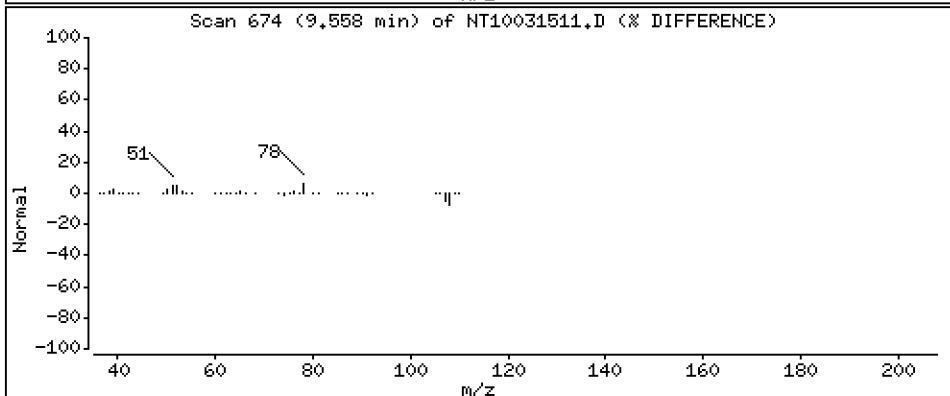
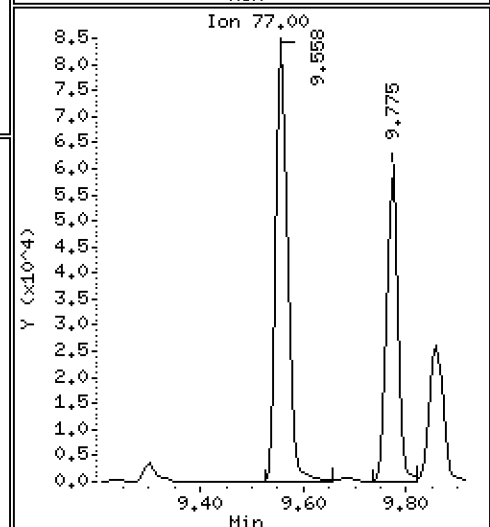
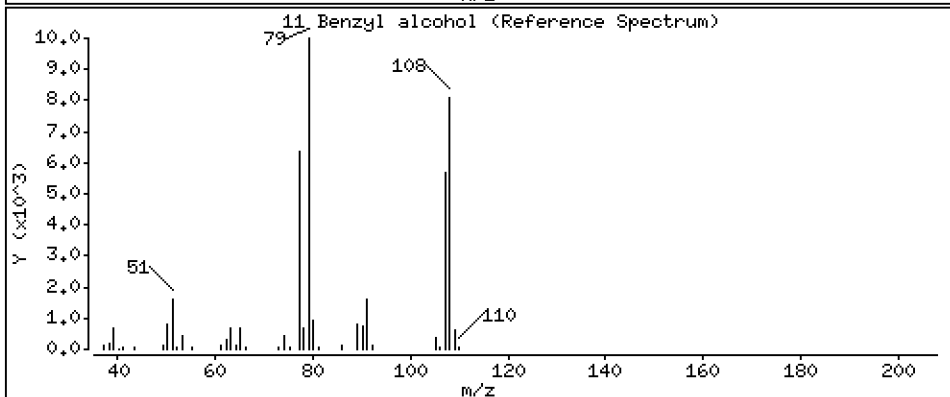
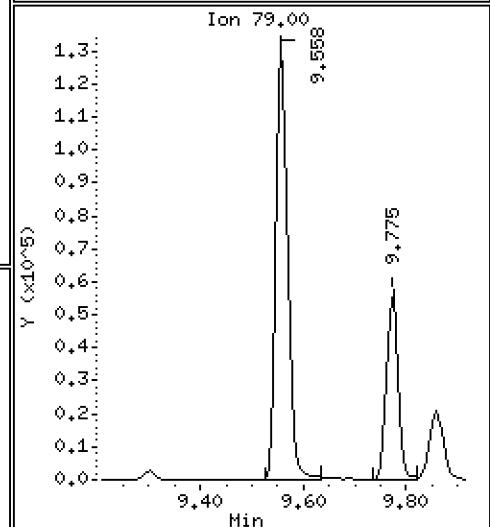
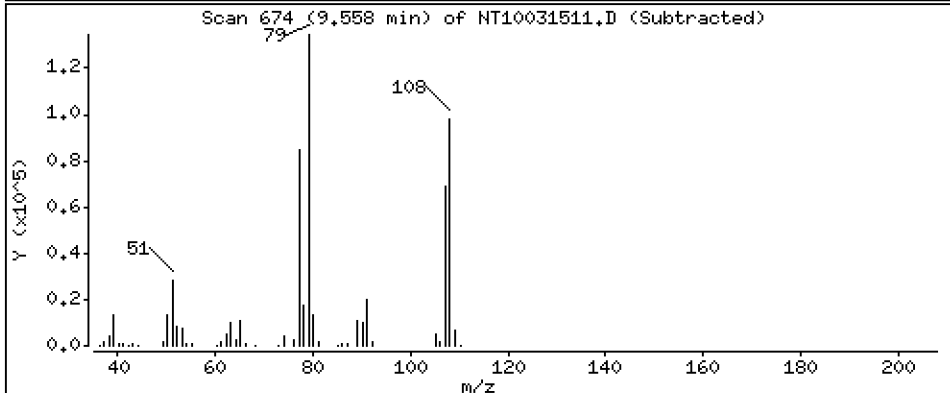
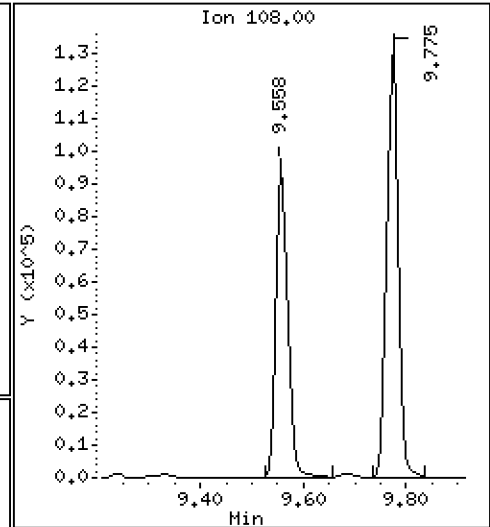
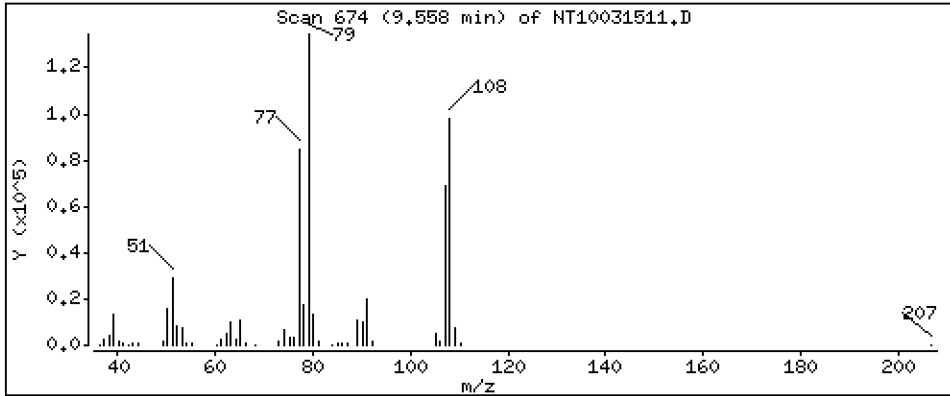
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 4.927 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

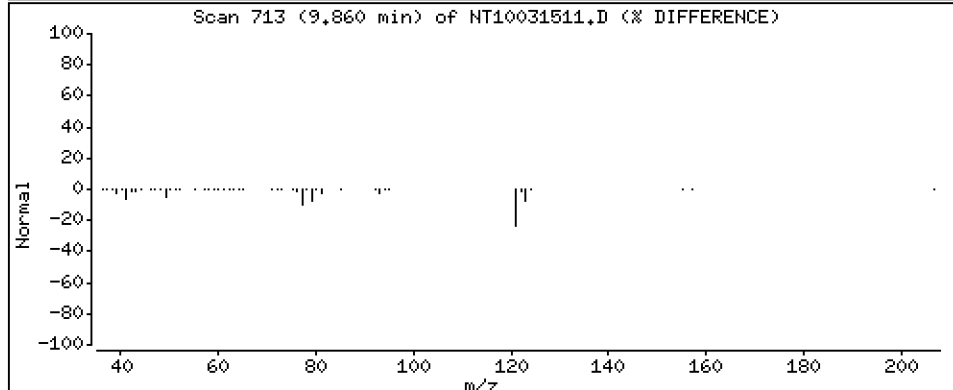
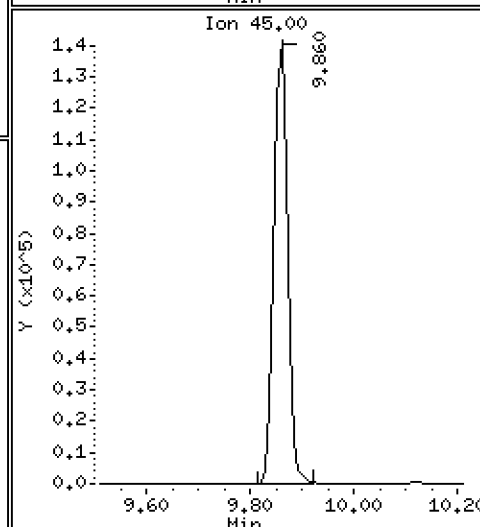
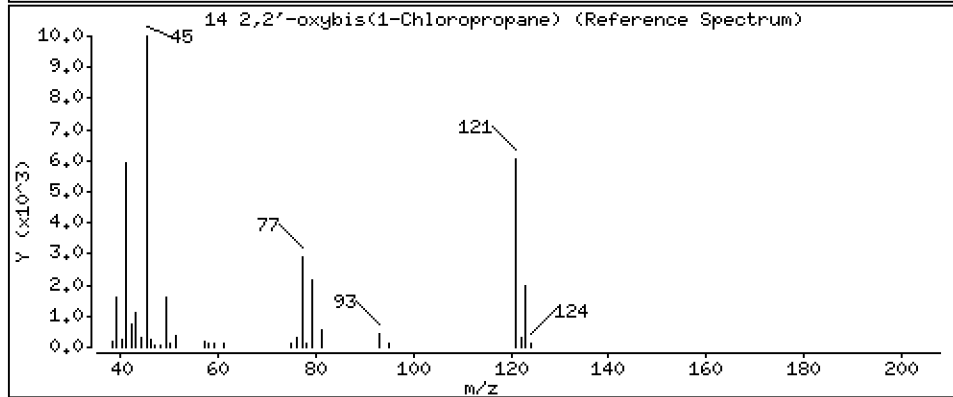
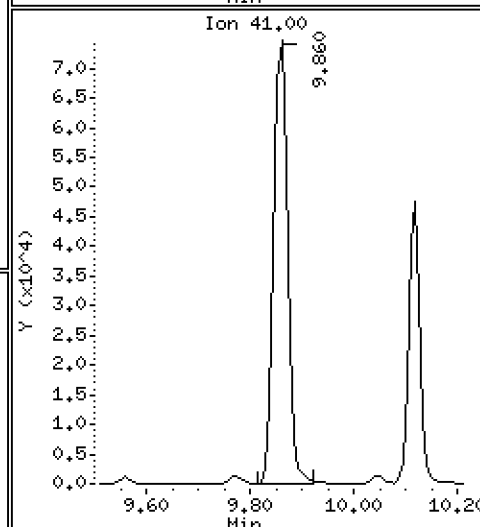
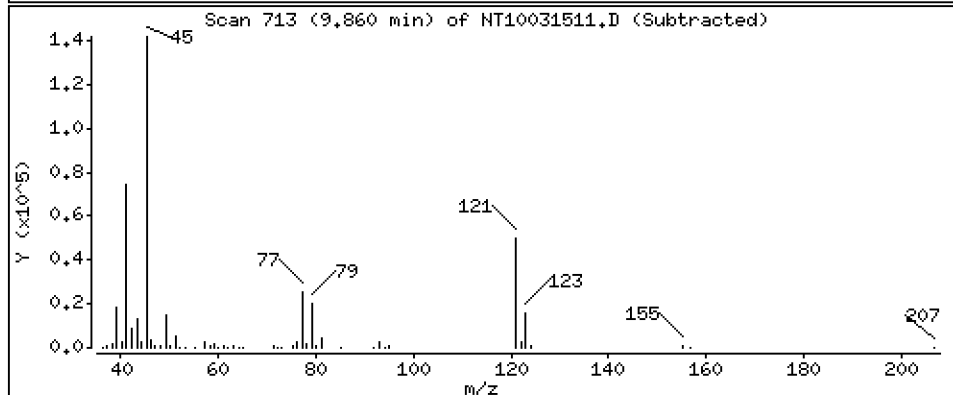
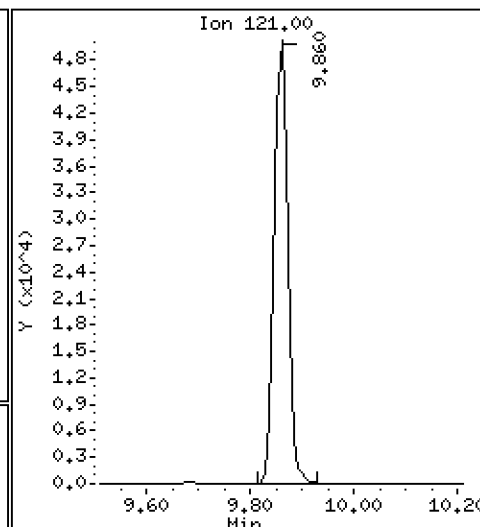
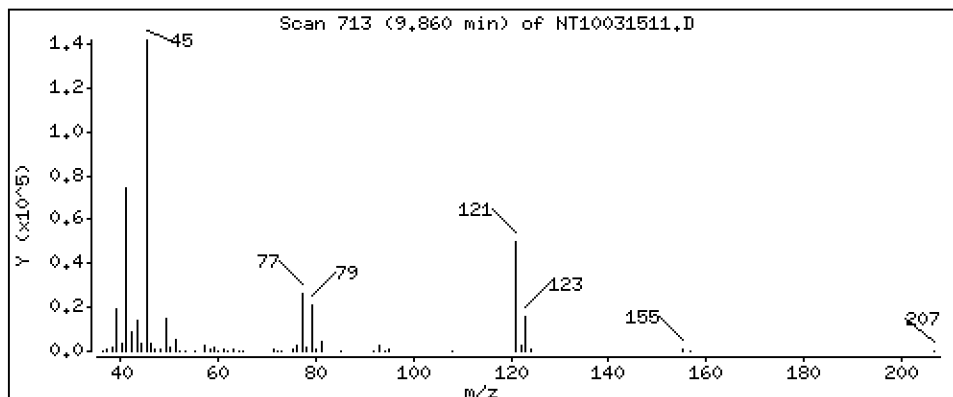
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 6,214 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

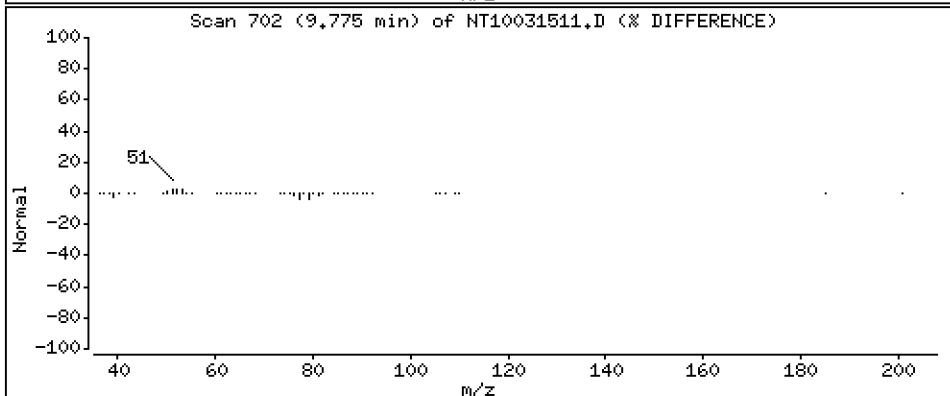
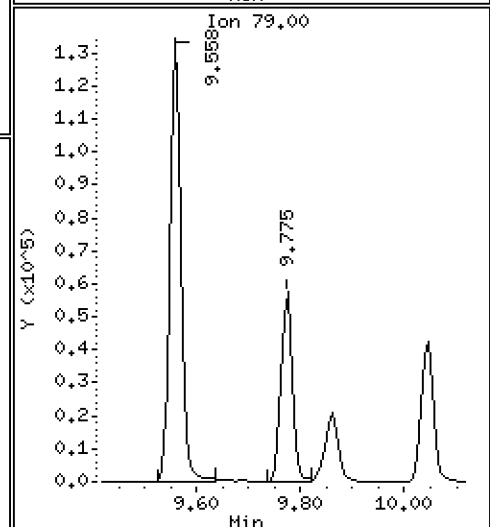
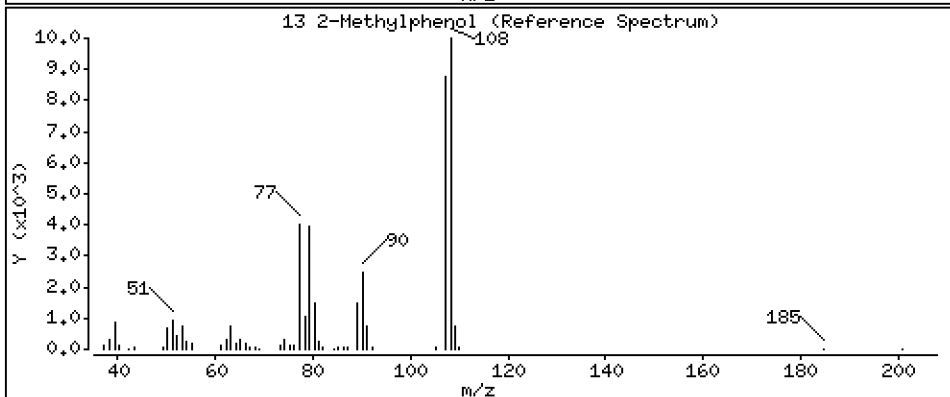
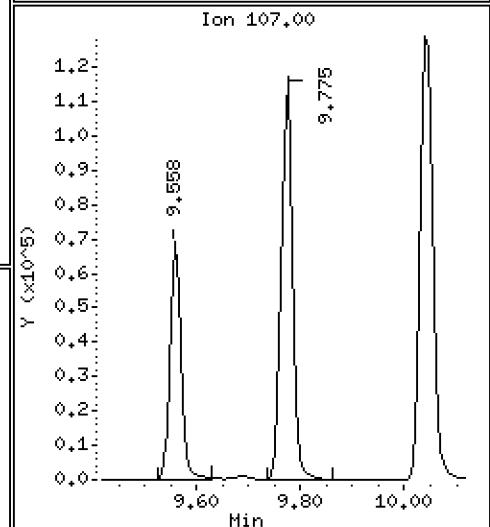
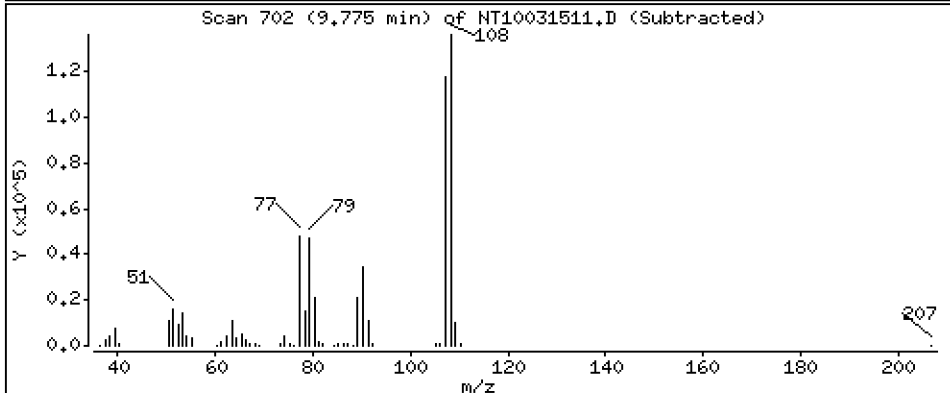
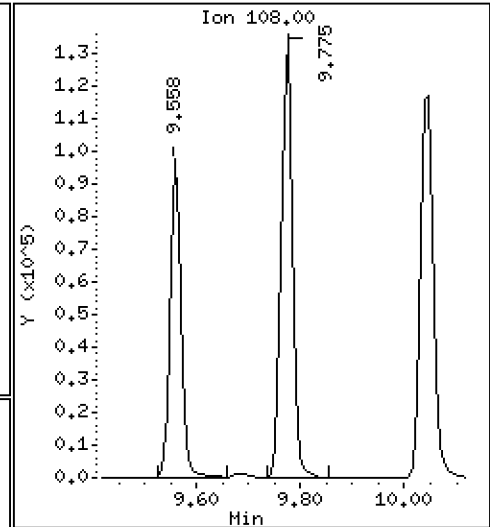
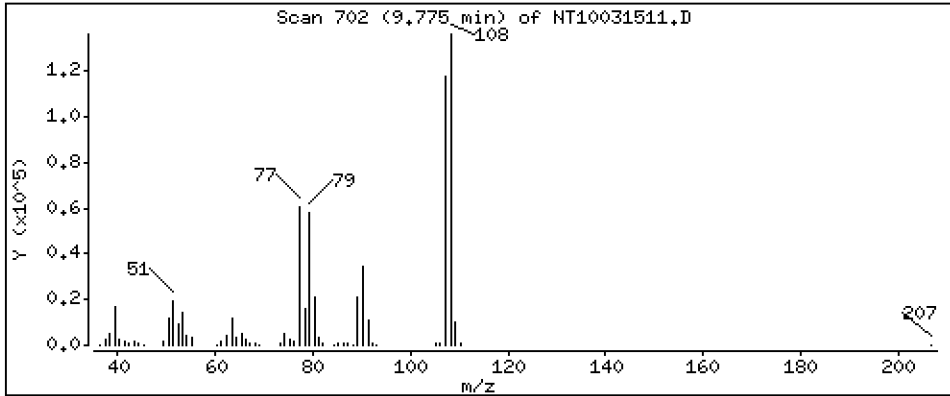
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

13 2-Methylphenol

Concentration: 4.215 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

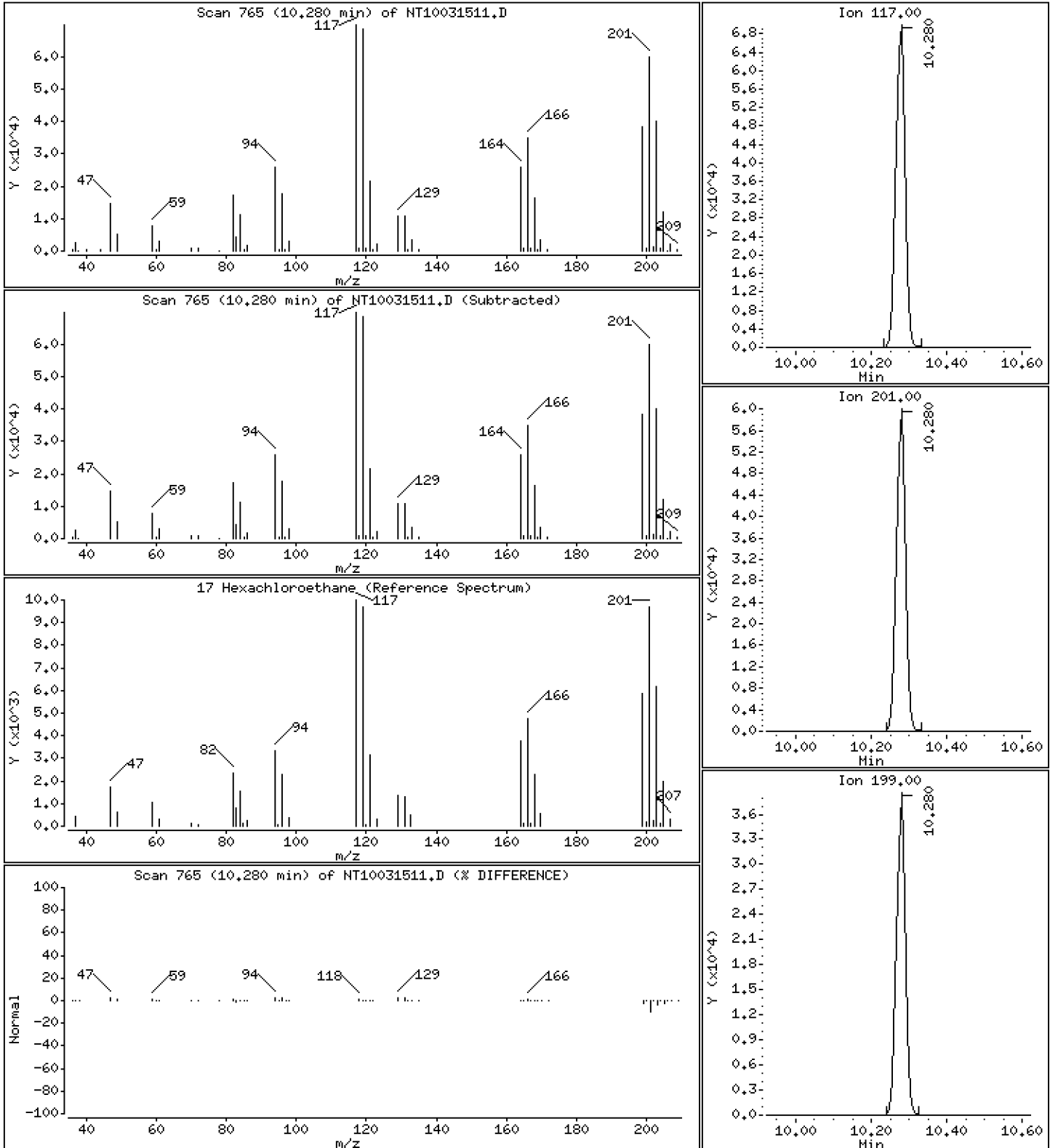
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

17 Hexachloroethane

Concentration: 5,003 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

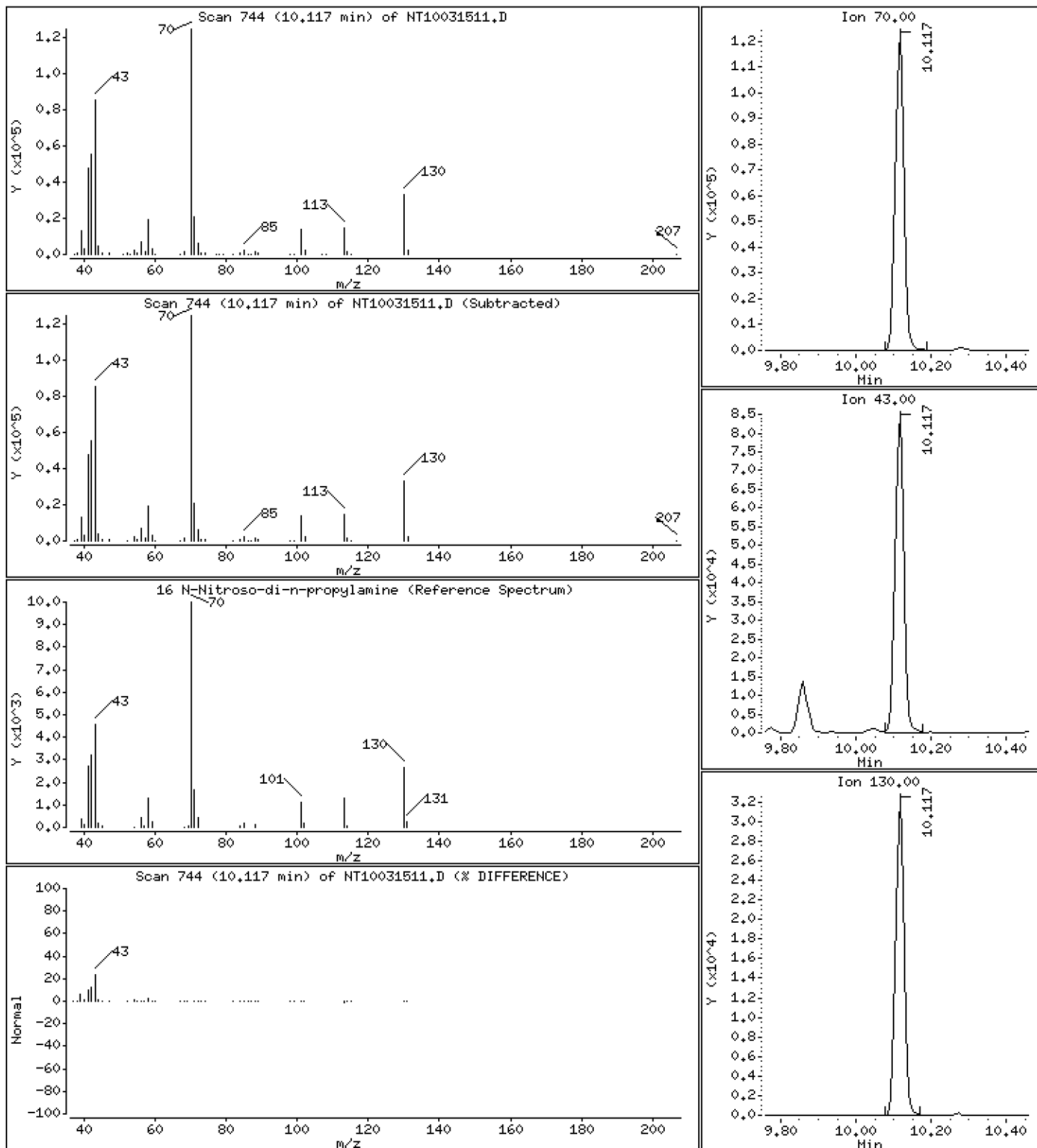
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

16 N-Nitroso-di-n-propylamine

Concentration: 5,179 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

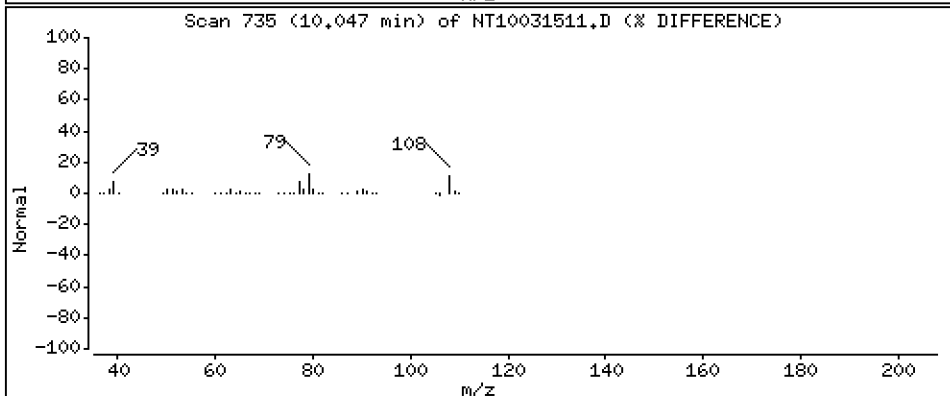
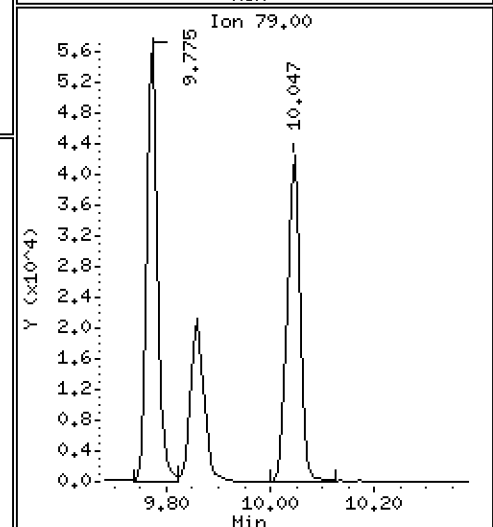
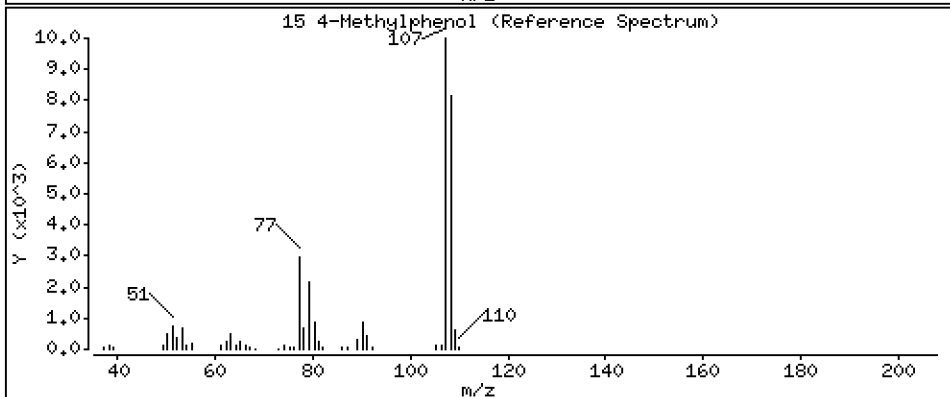
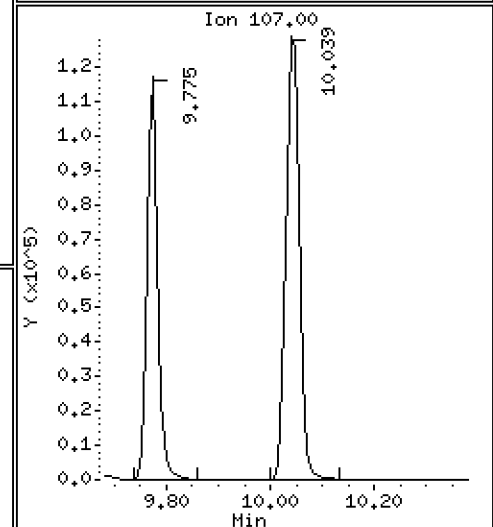
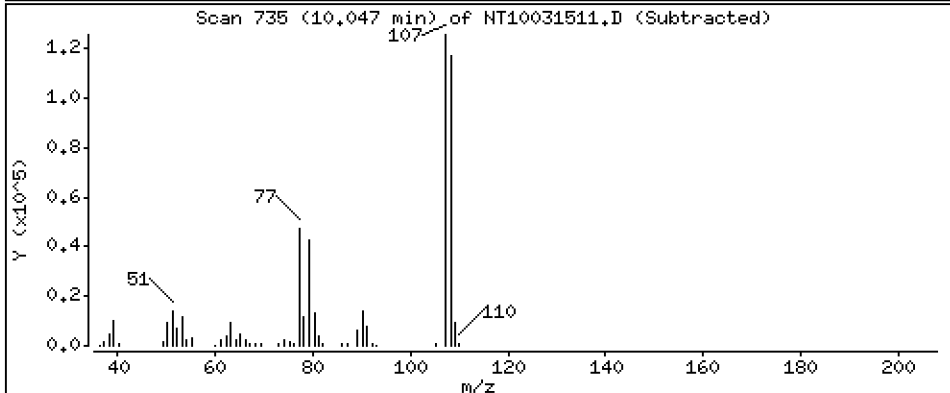
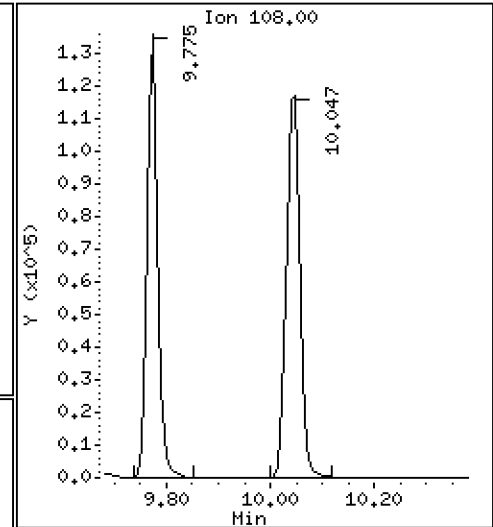
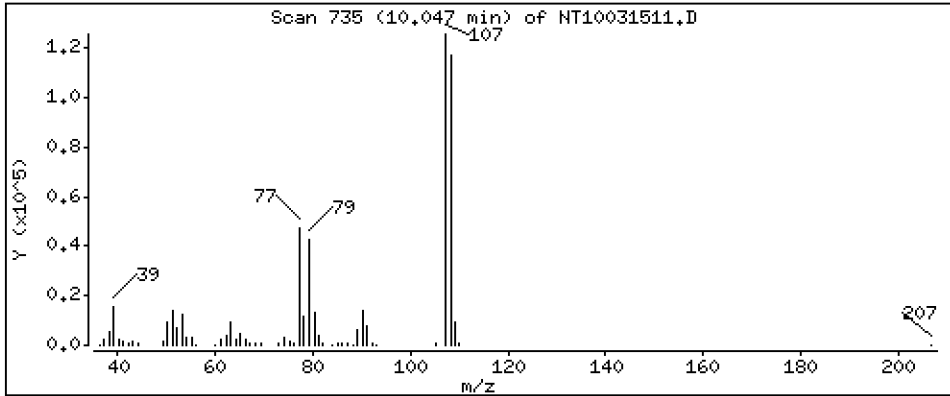
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

15 4-Methylphenol

Concentration: 4,365 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

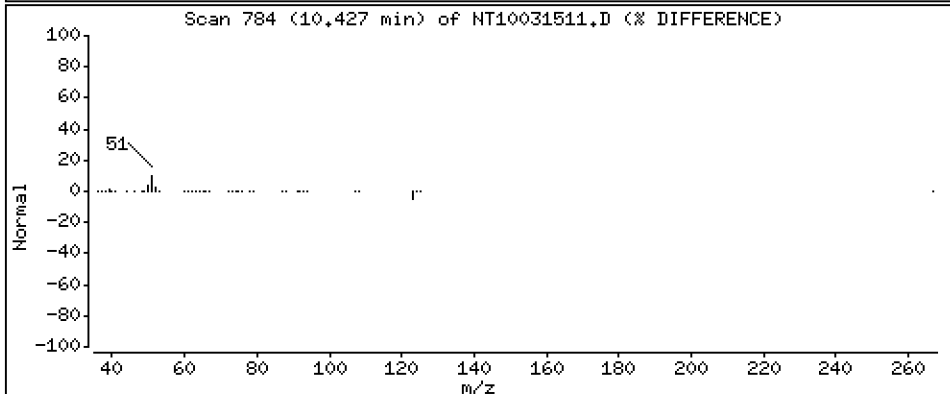
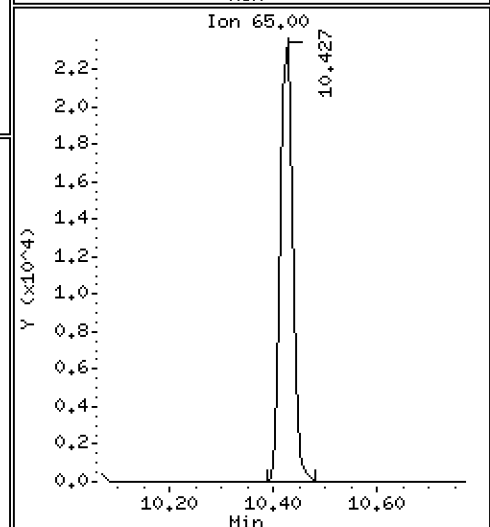
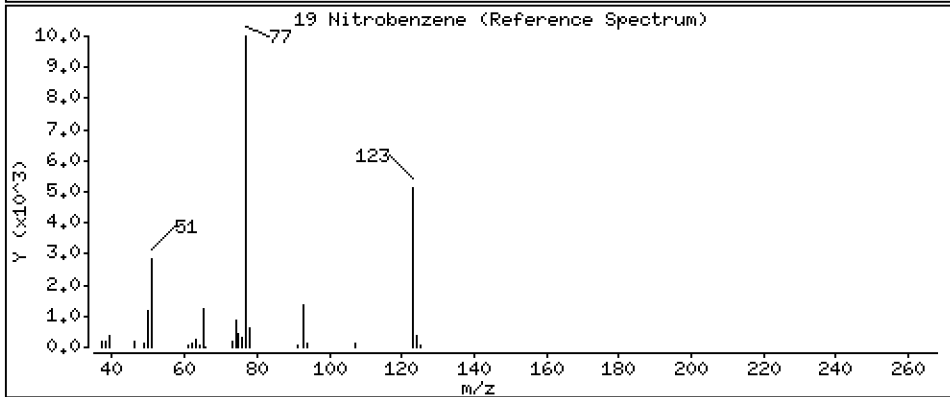
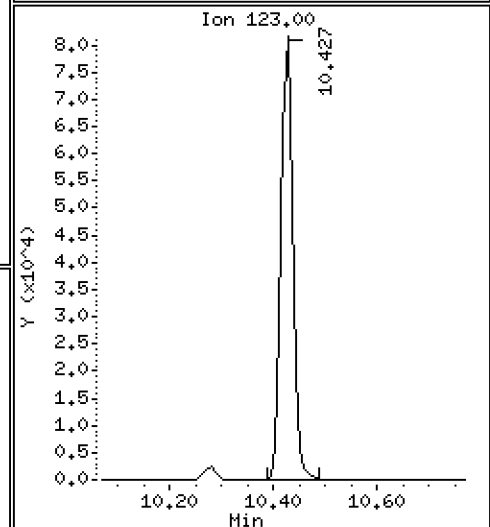
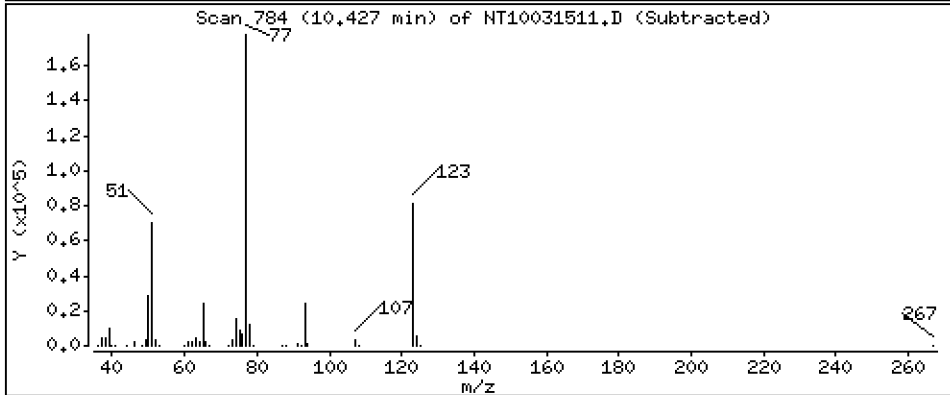
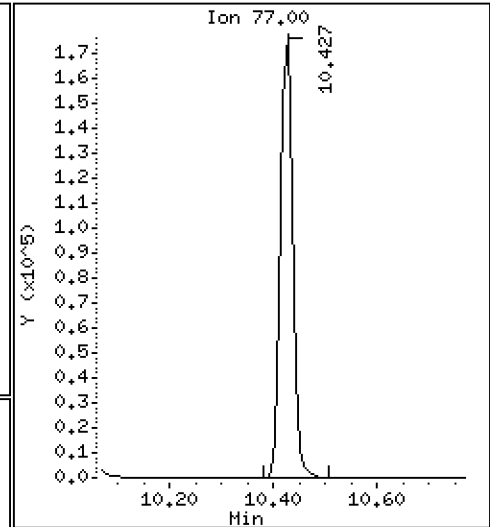
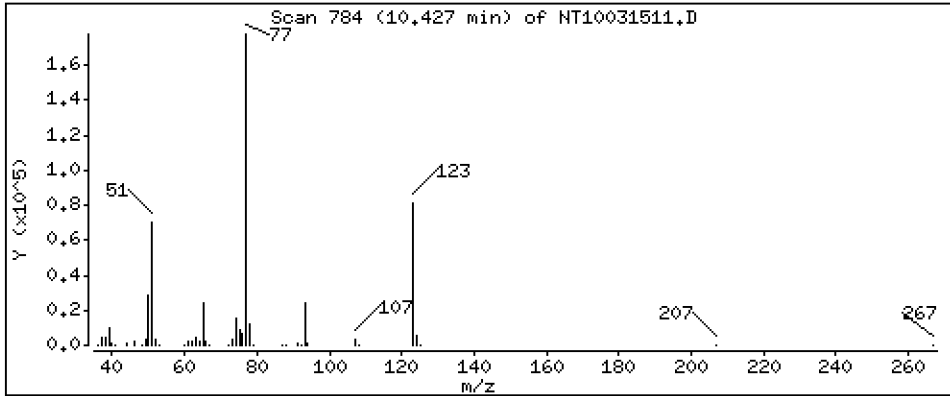
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

19 Nitrobenzene

Concentration: 4,858 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

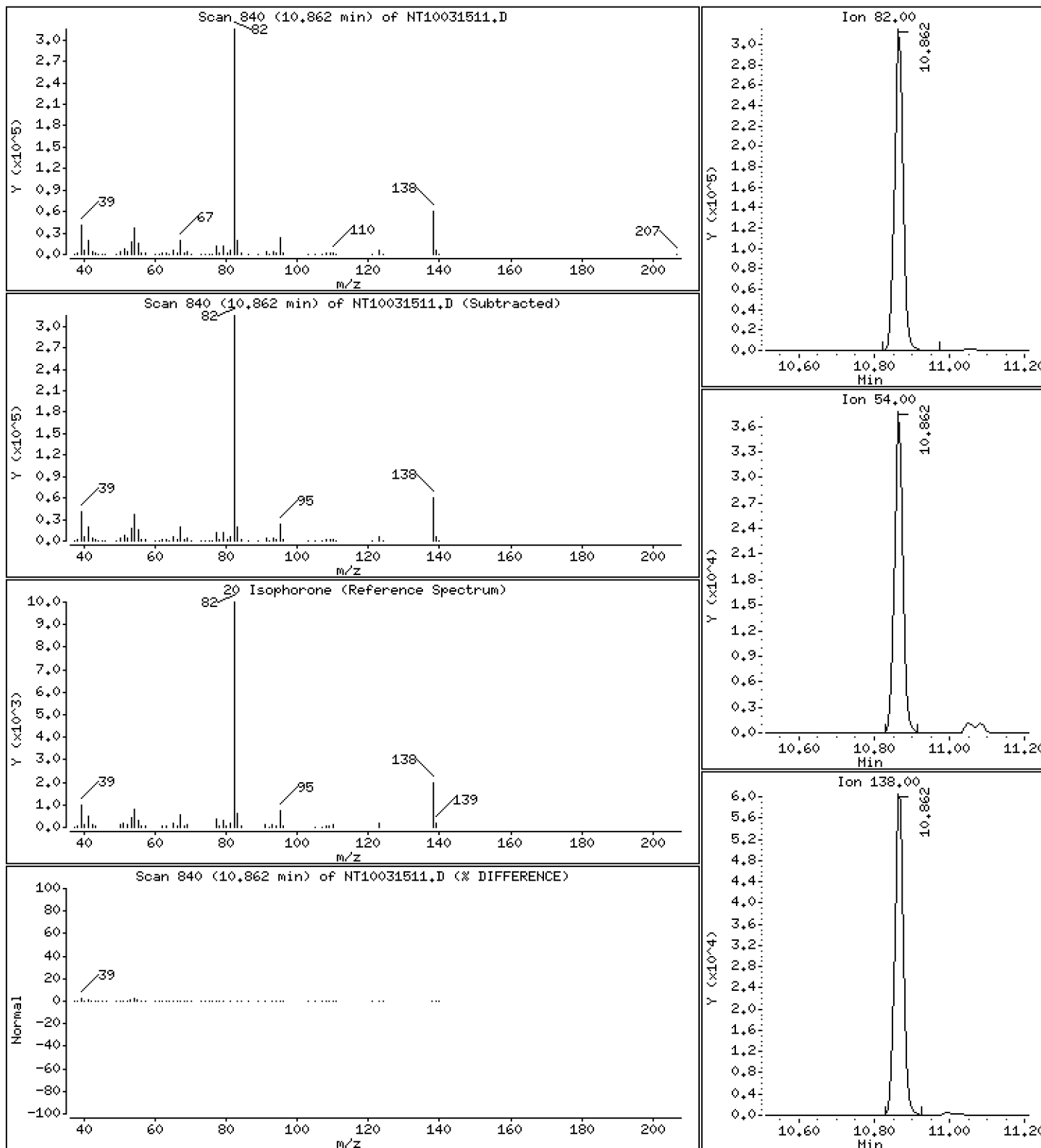
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

20 Isophorone

Concentration: 7,696 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

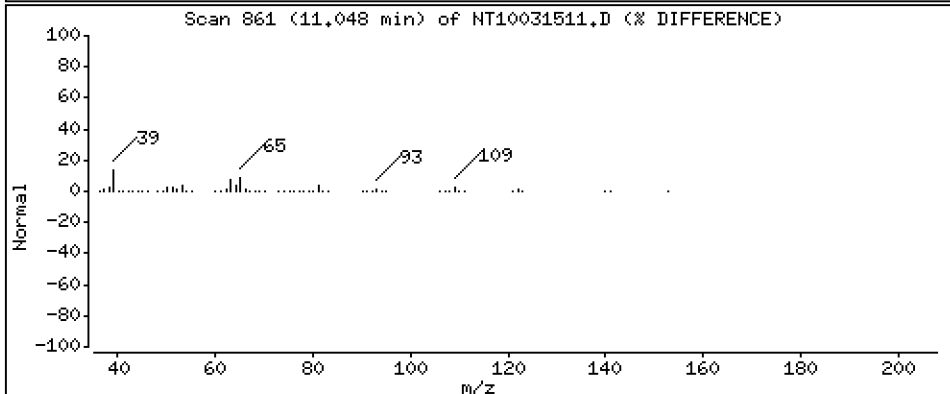
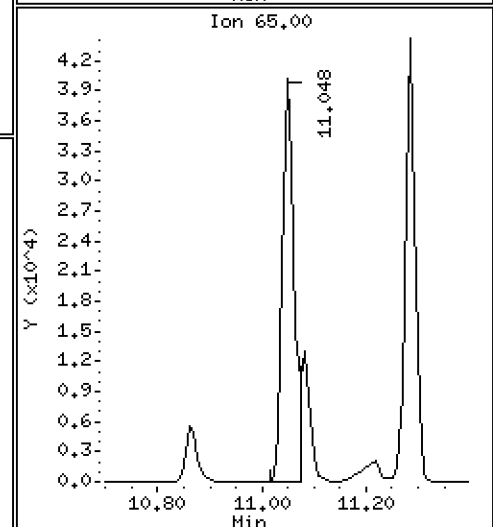
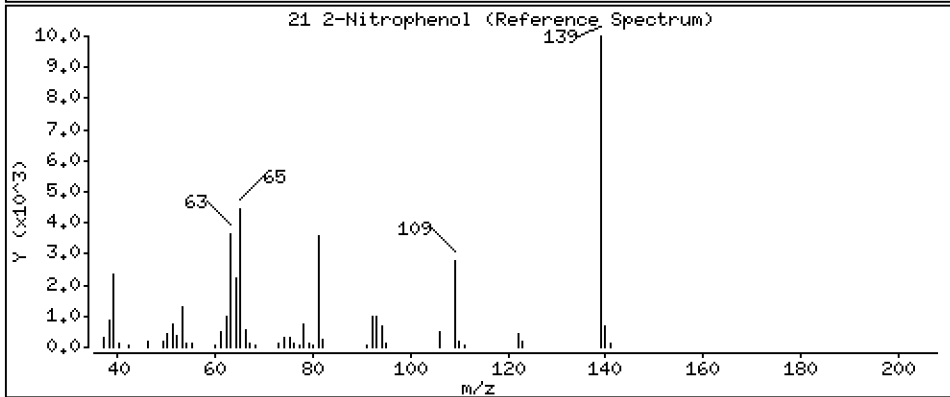
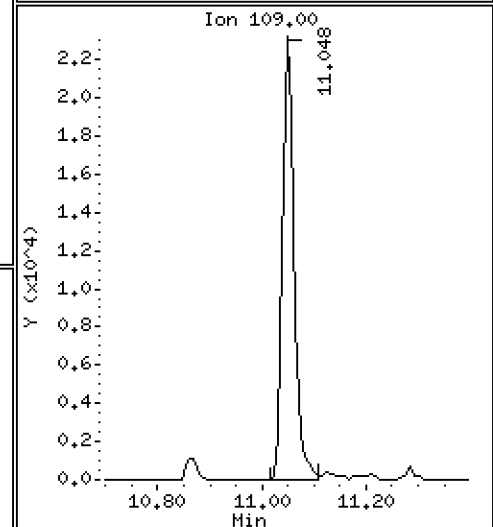
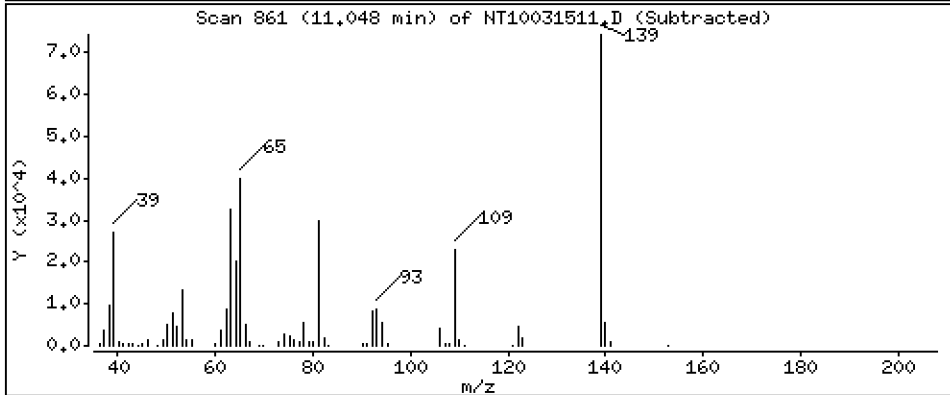
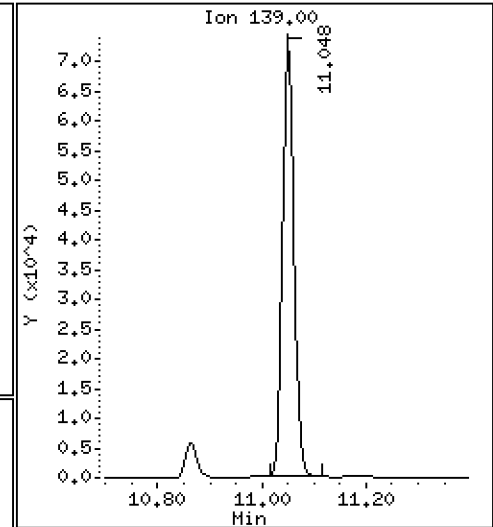
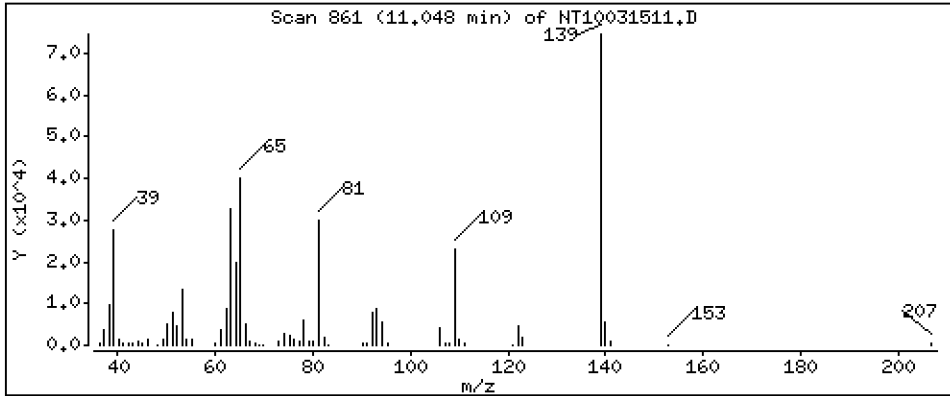
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

21 2-Nitrophenol

Concentration: 3,995 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

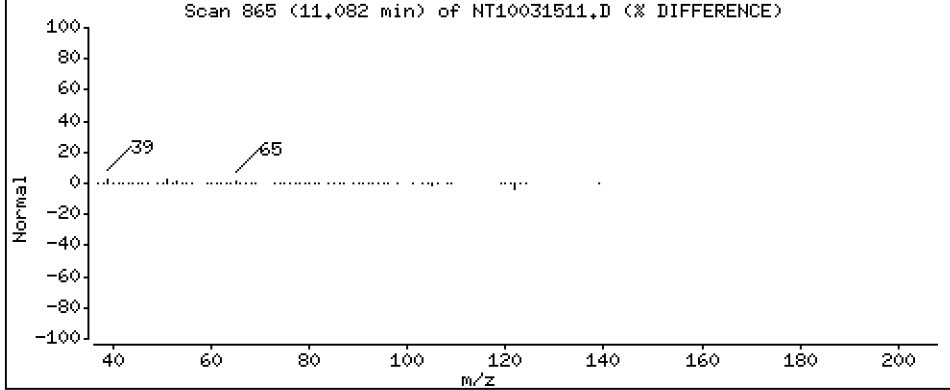
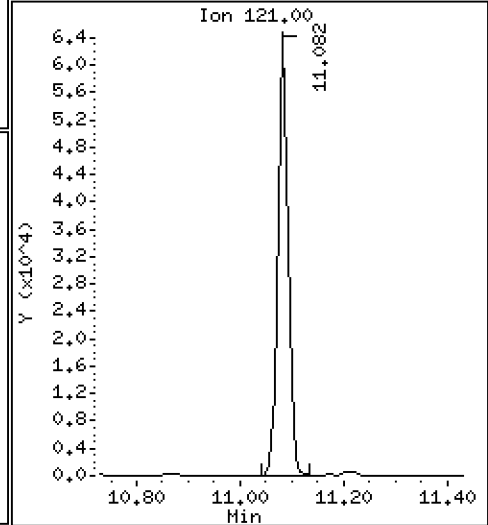
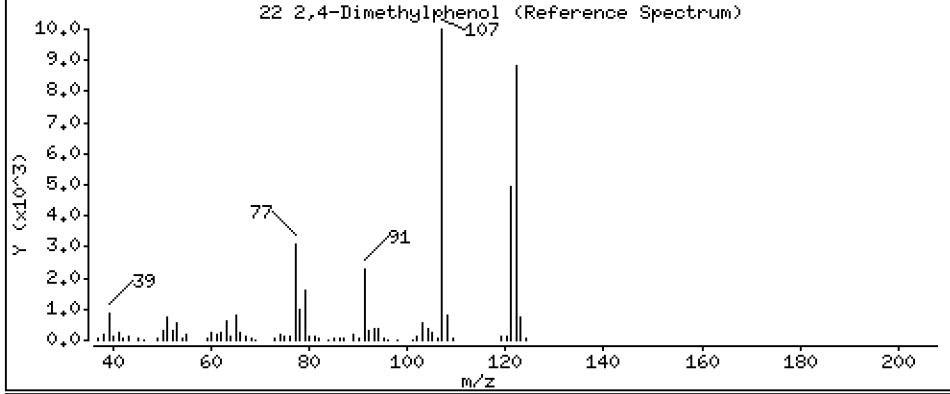
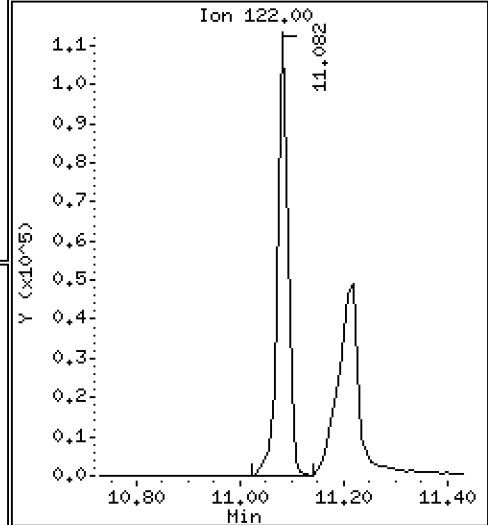
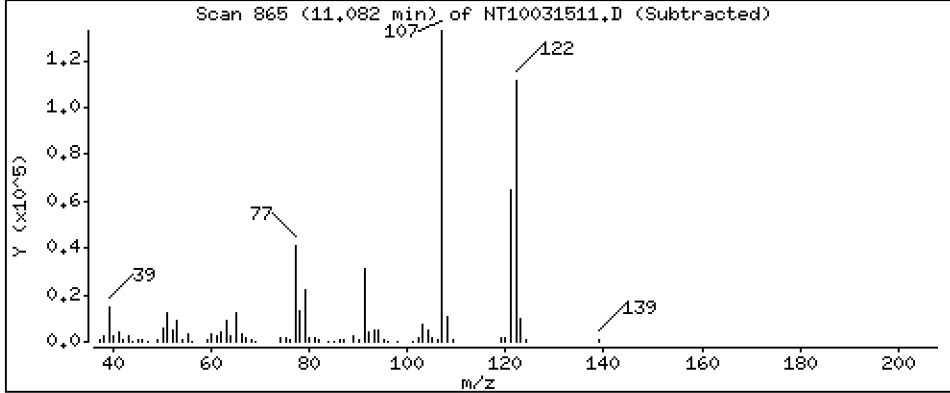
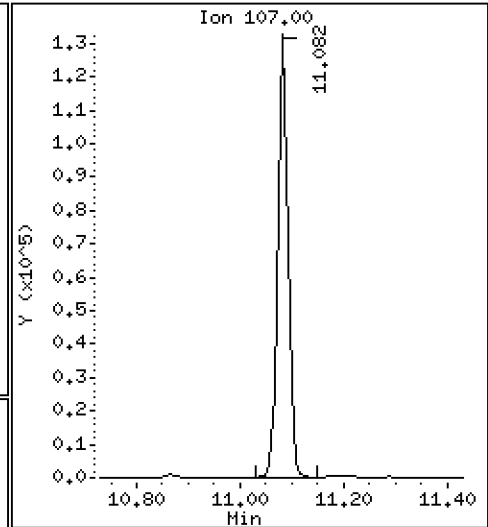
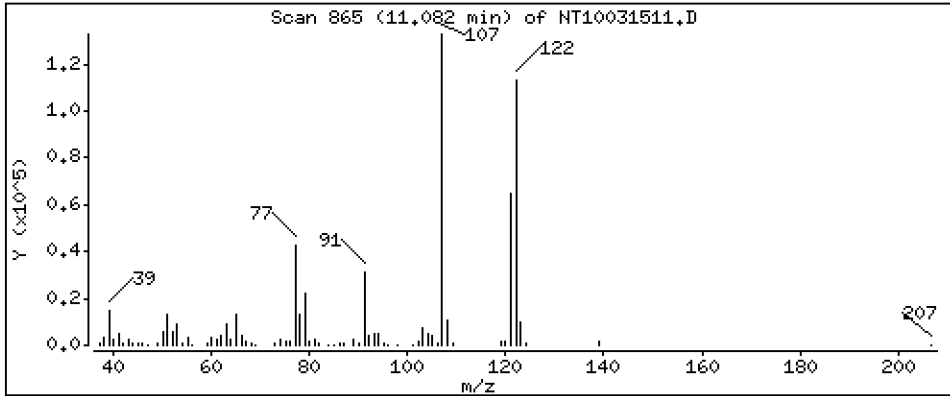
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 3,632 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

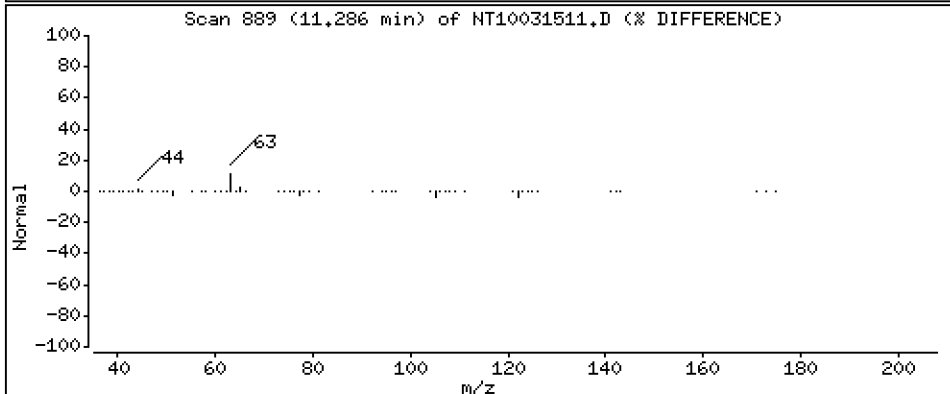
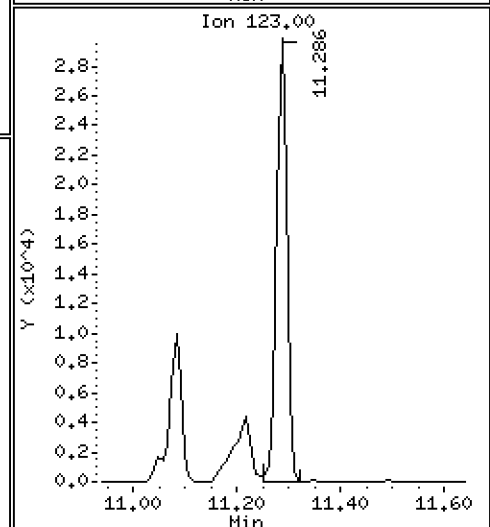
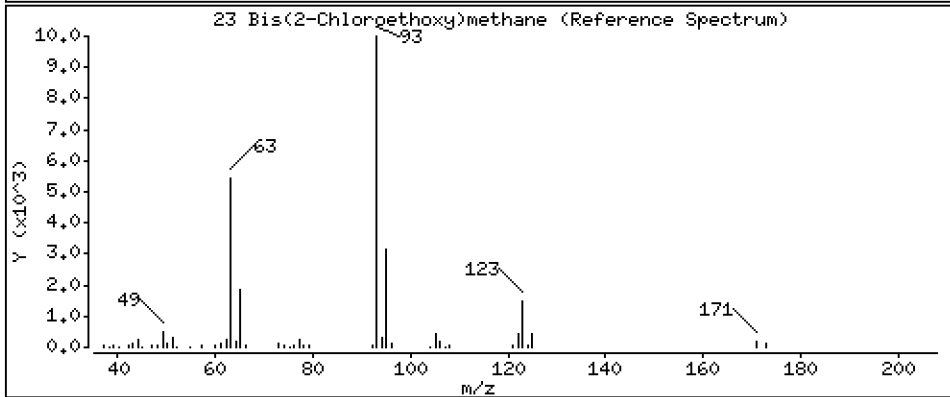
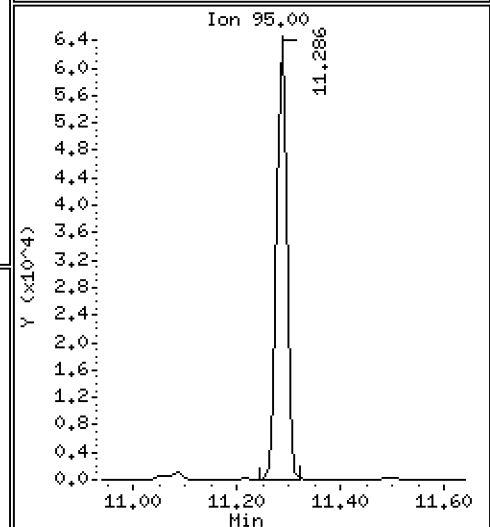
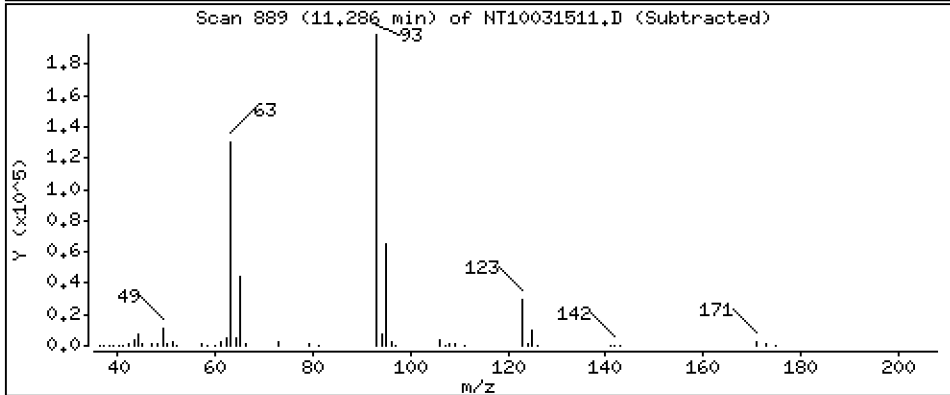
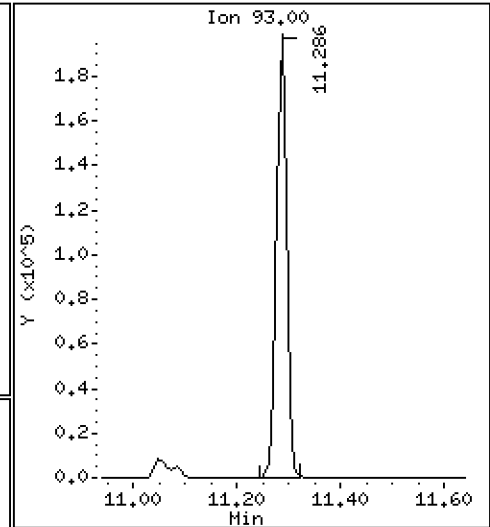
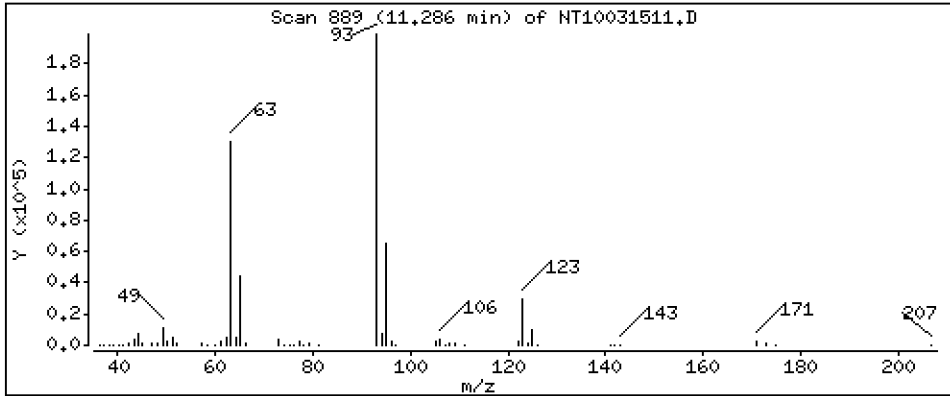
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

23 Bis(2-Chloroethoxy)methane

Concentration: 5,654 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

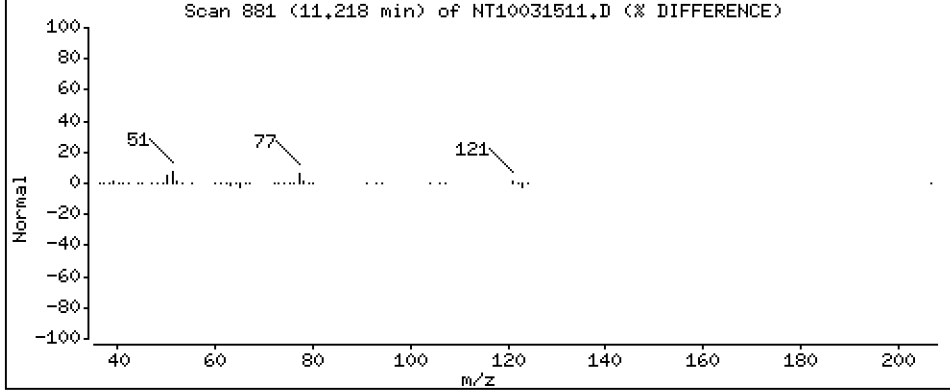
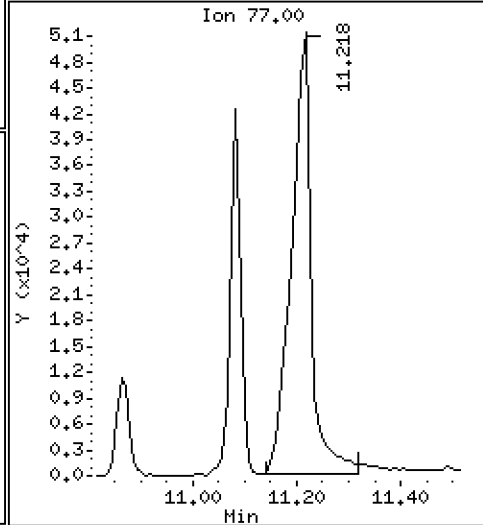
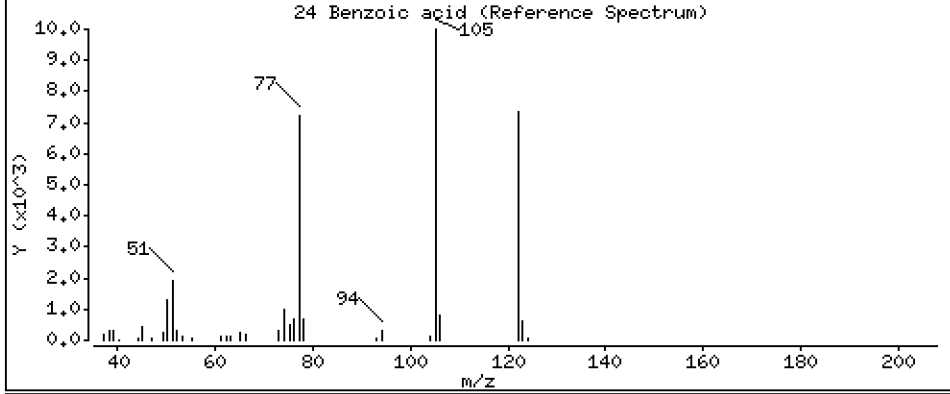
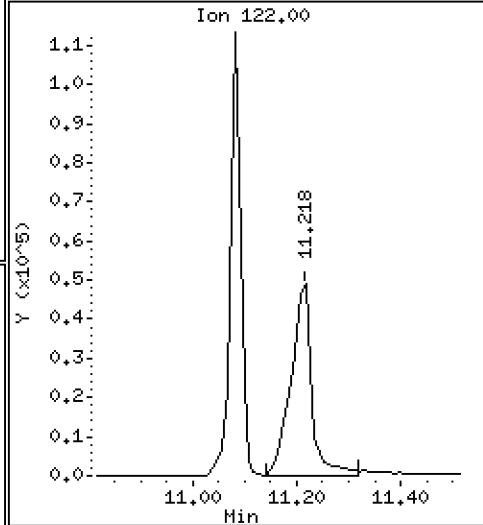
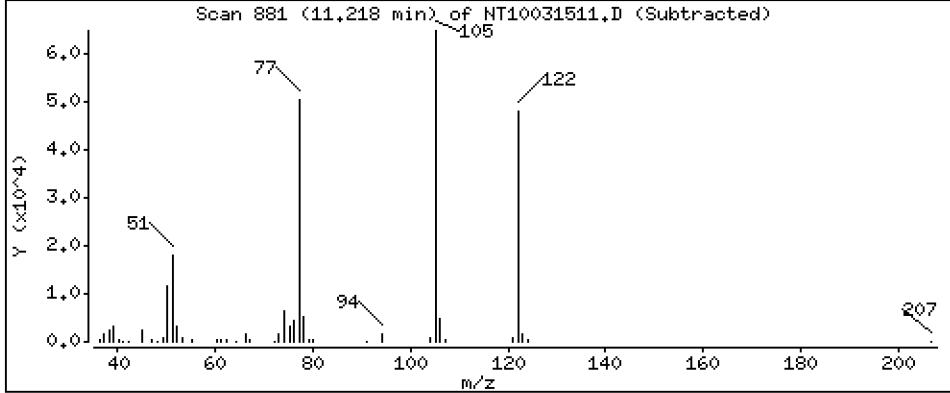
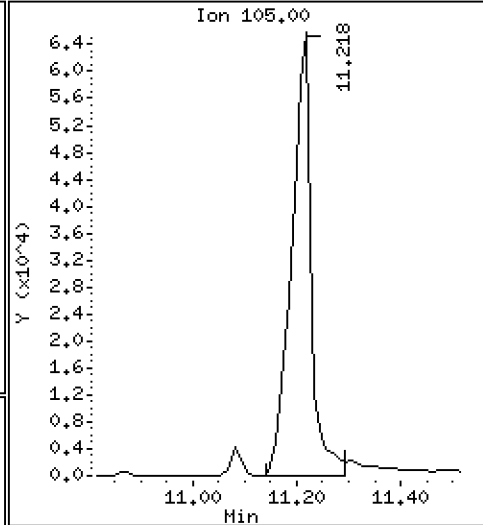
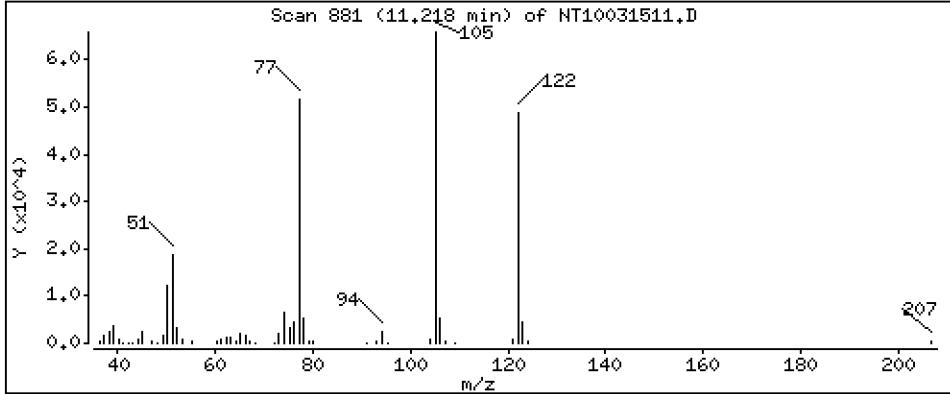
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

24 Benzoic acid

Concentration: 5,952 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

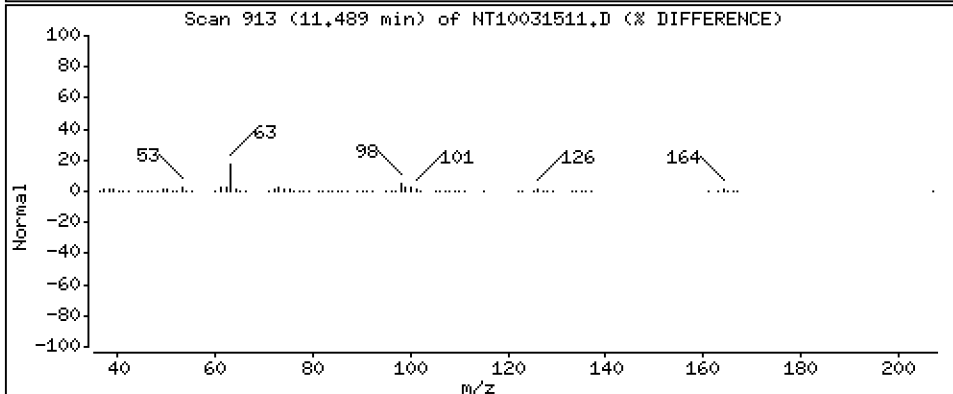
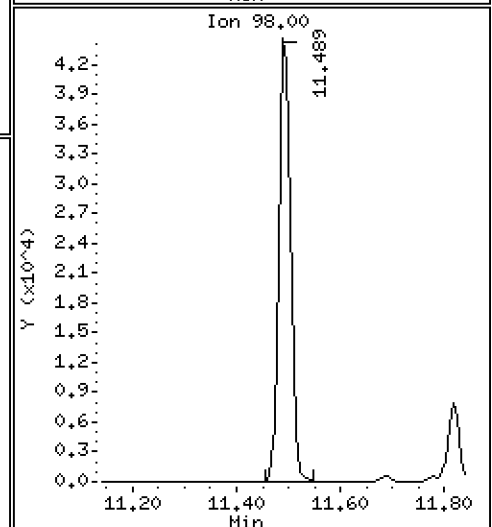
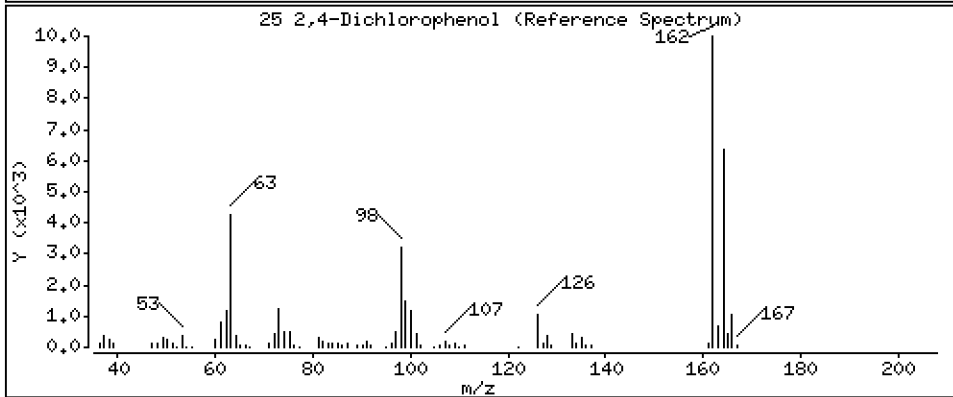
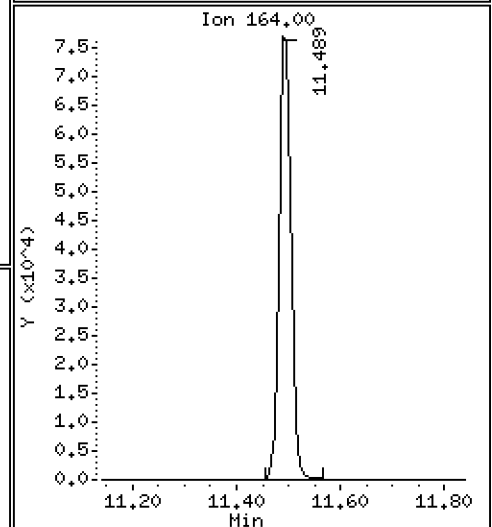
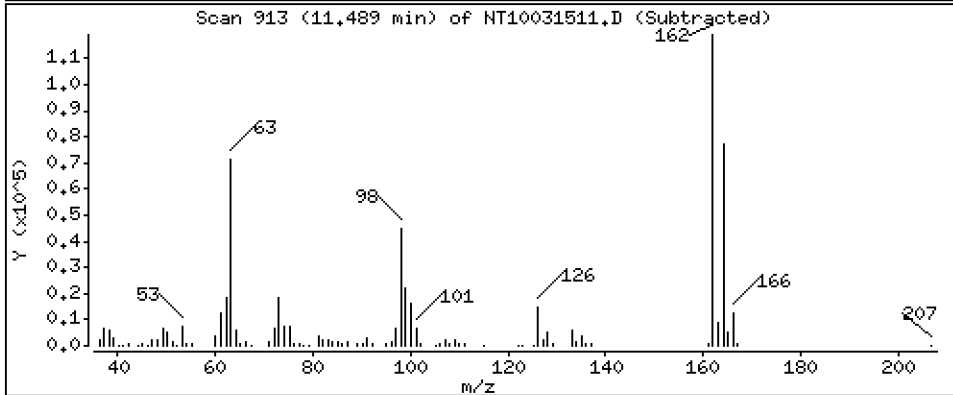
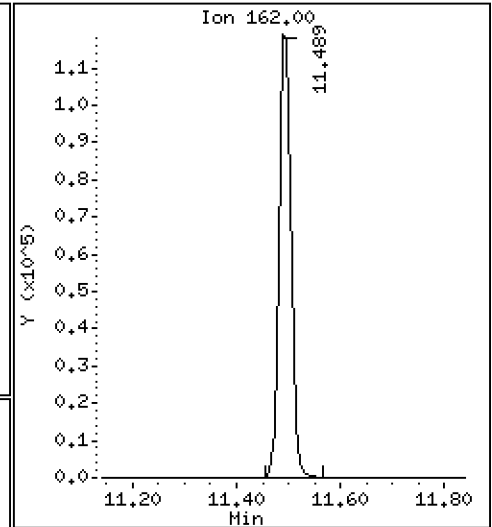
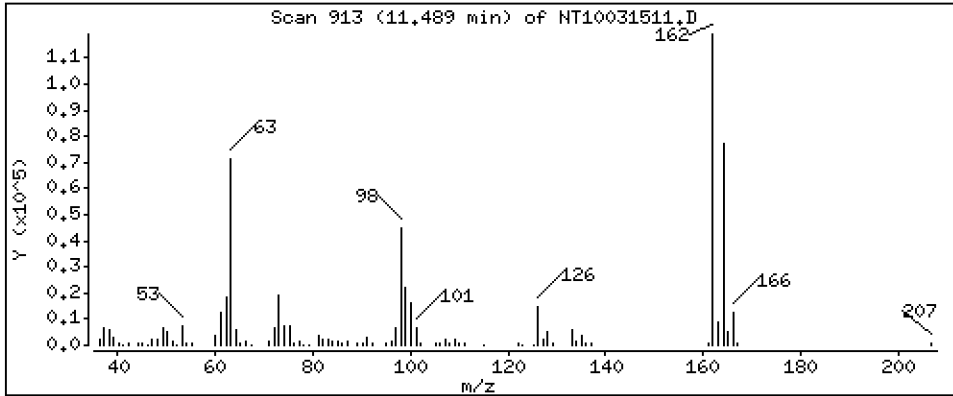
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 4,703 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

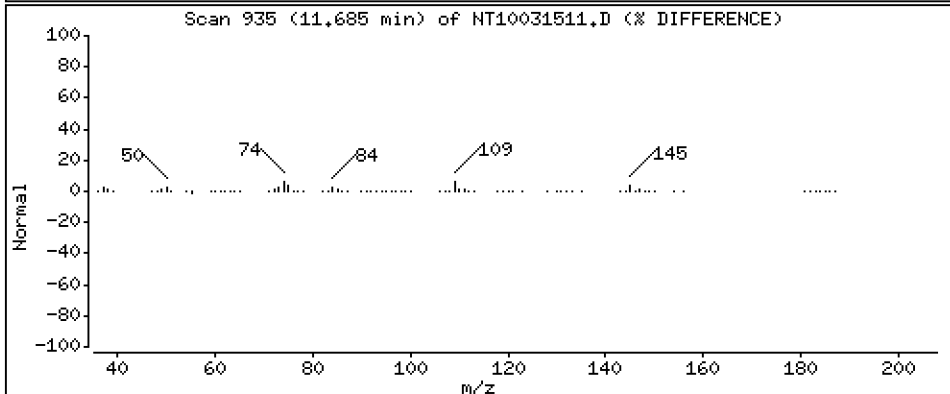
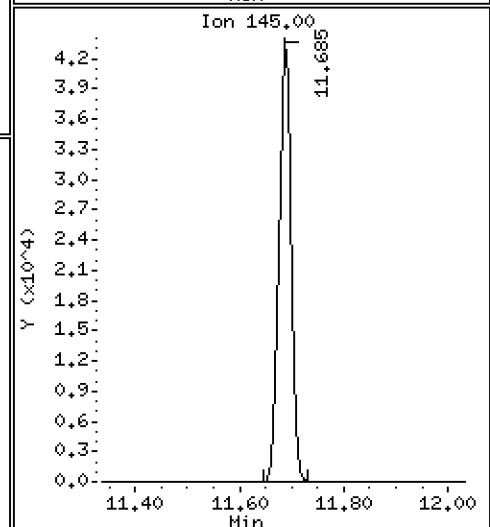
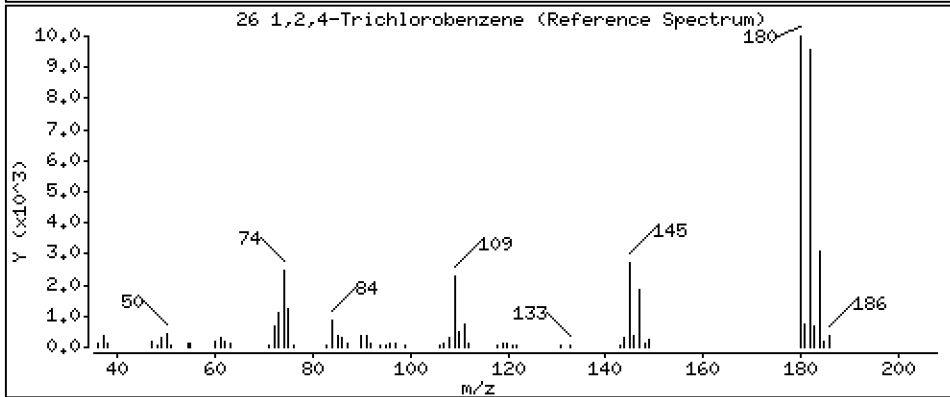
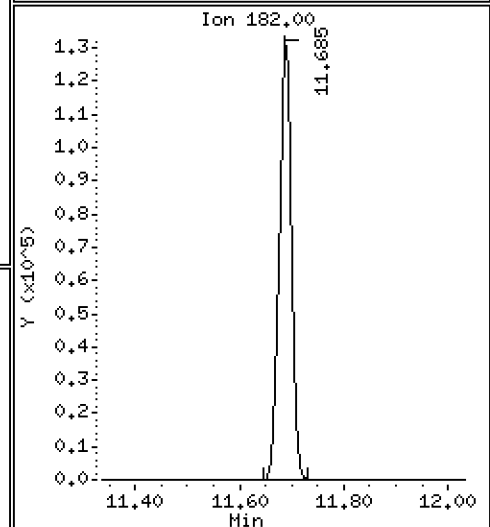
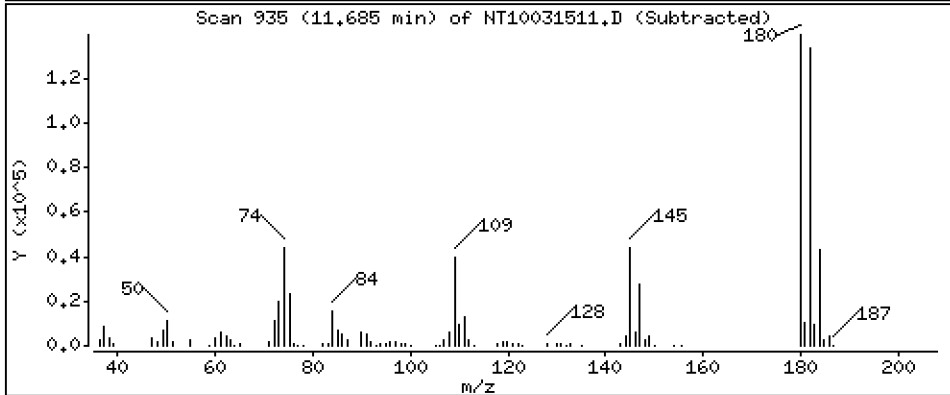
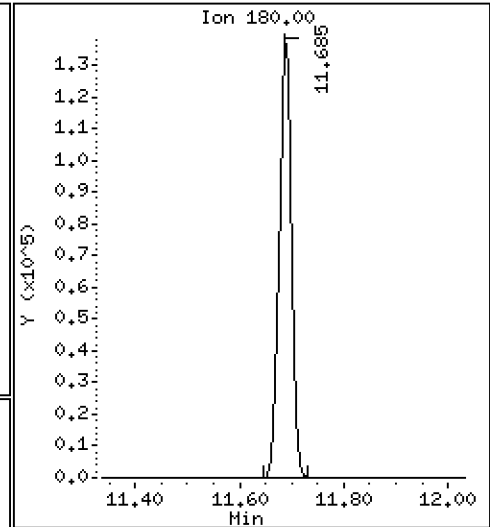
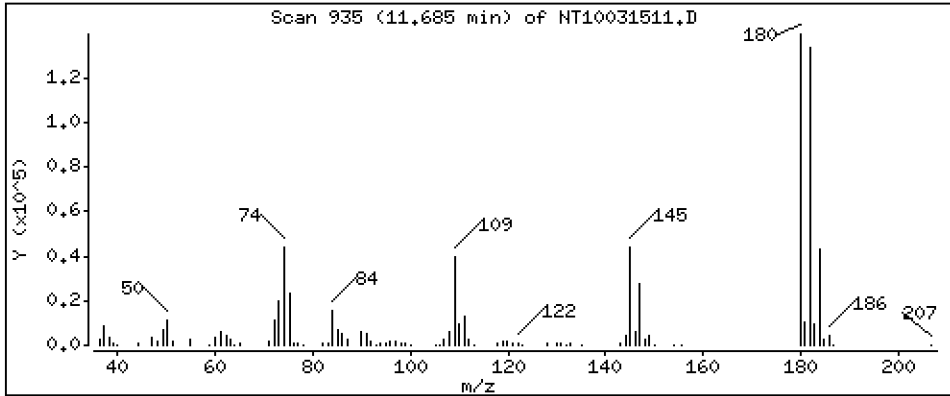
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 4,554 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

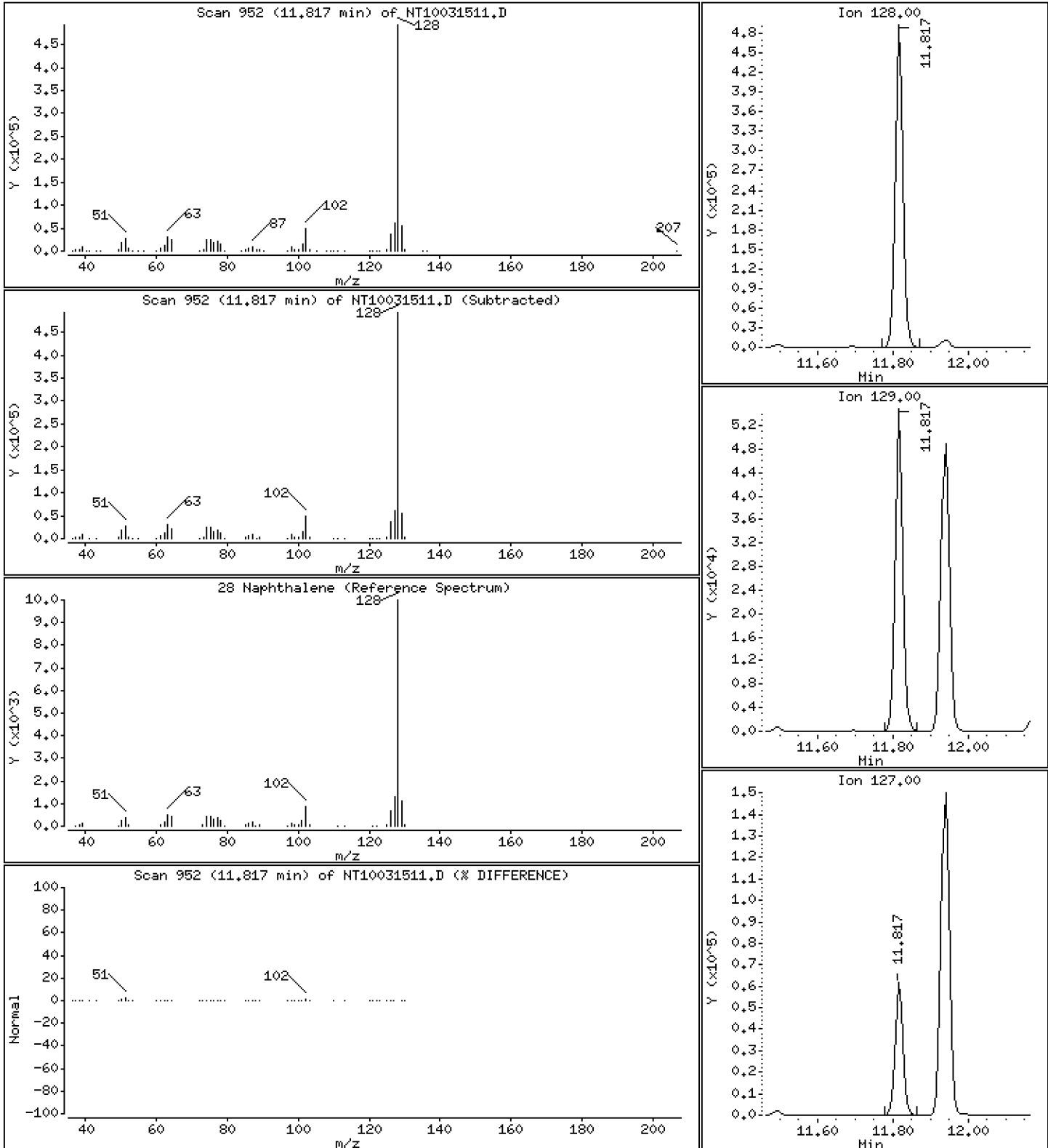
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 4,717 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

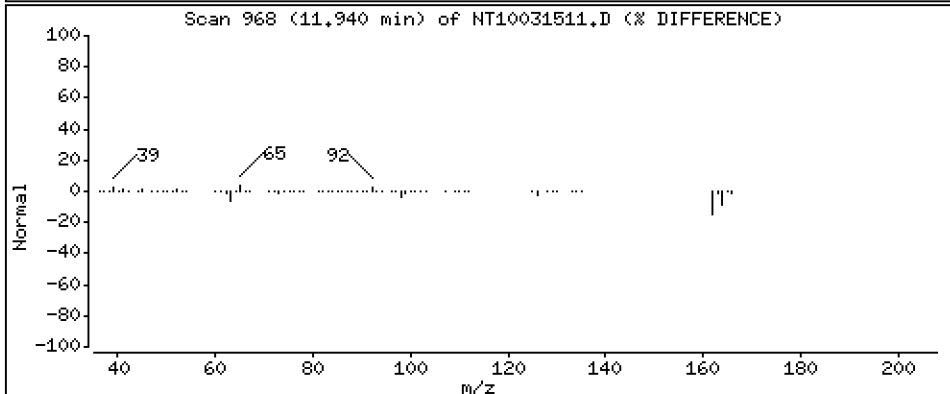
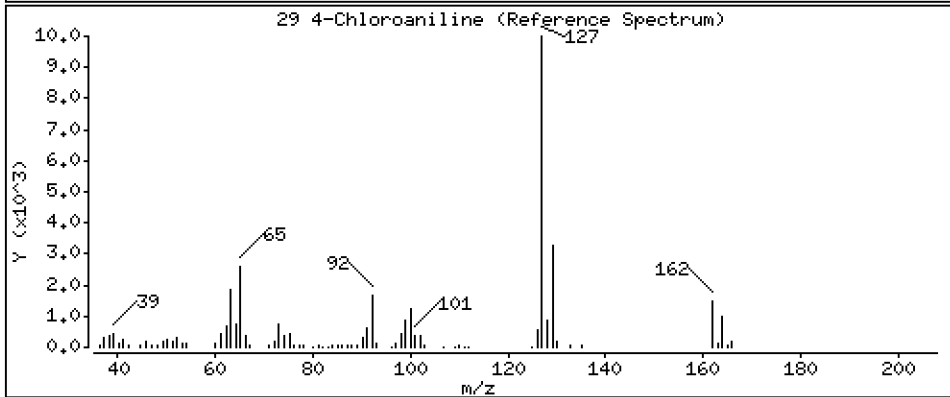
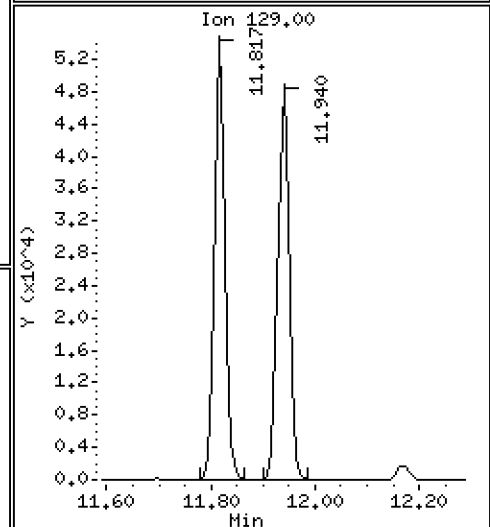
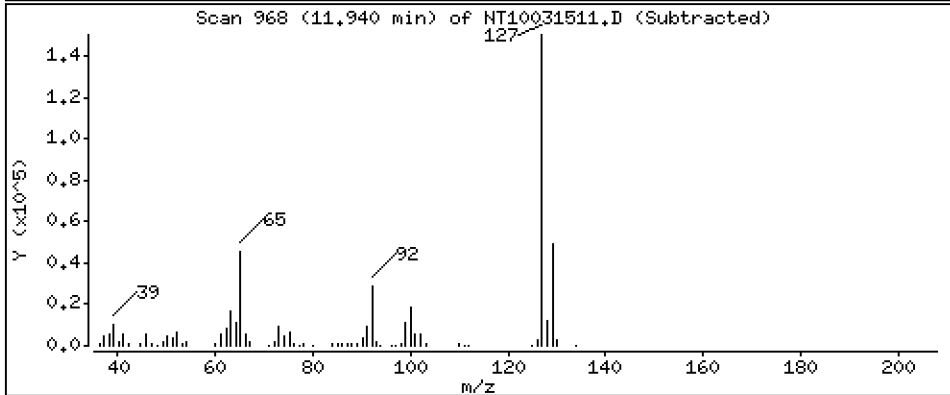
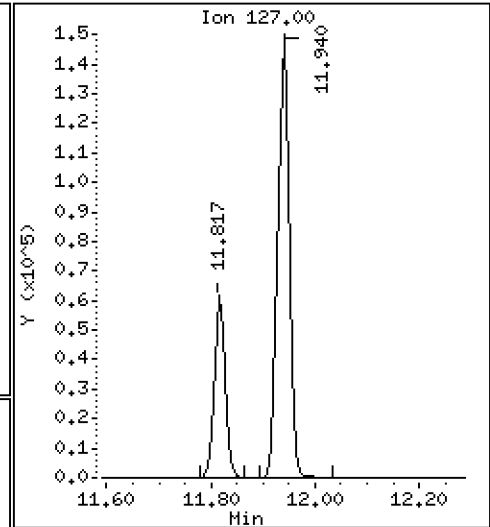
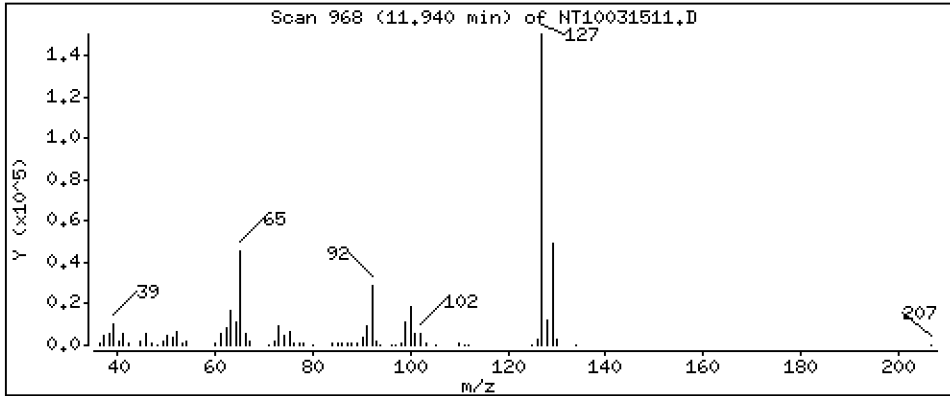
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

29 4-Chloroaniline

Concentration: 3,787 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

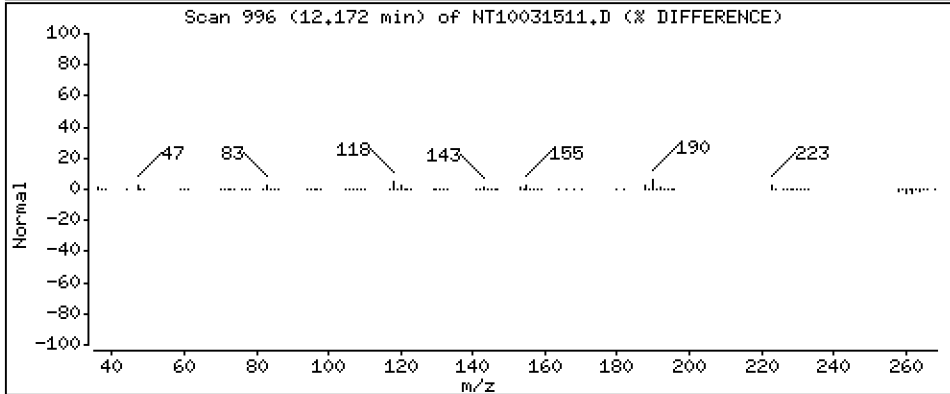
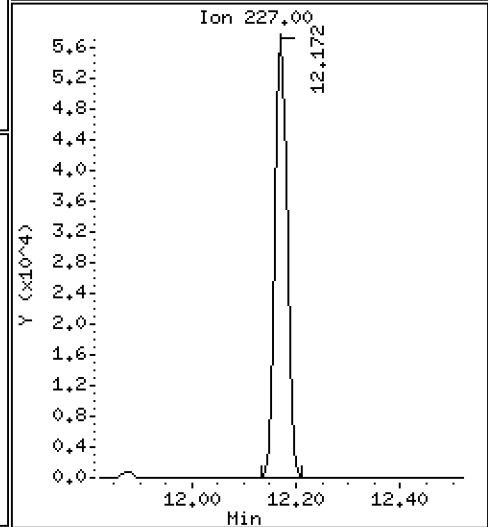
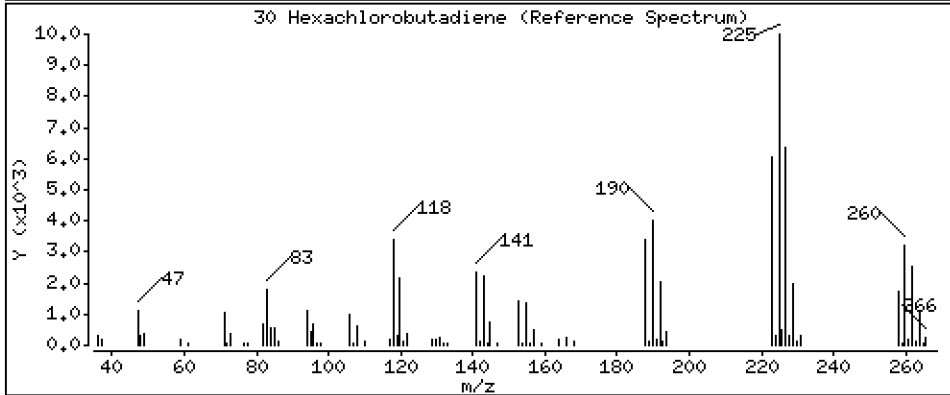
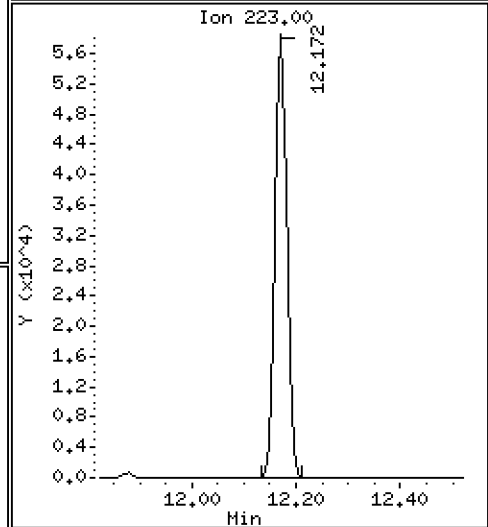
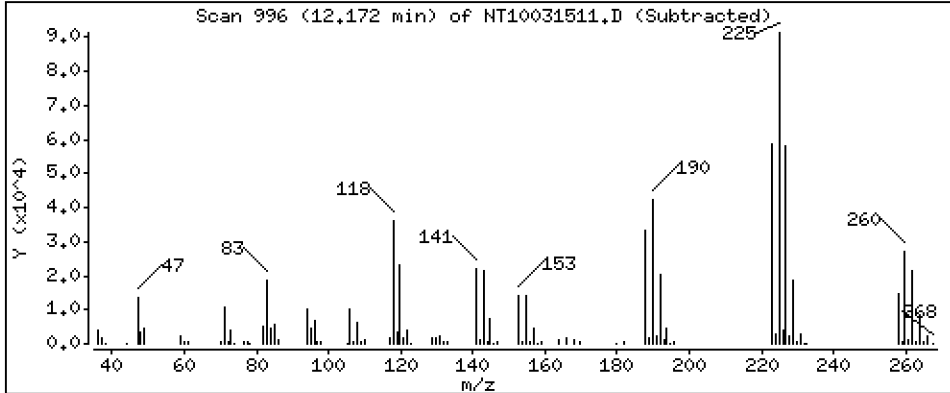
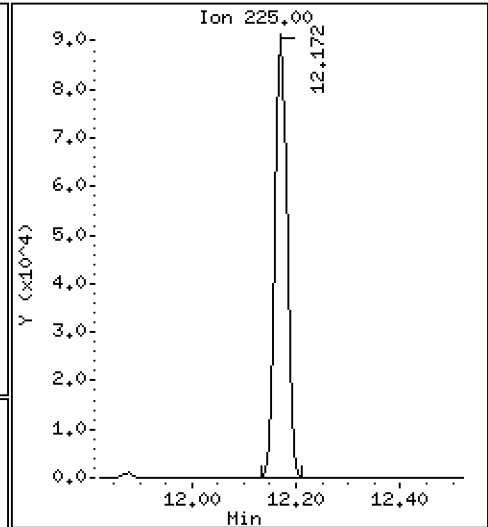
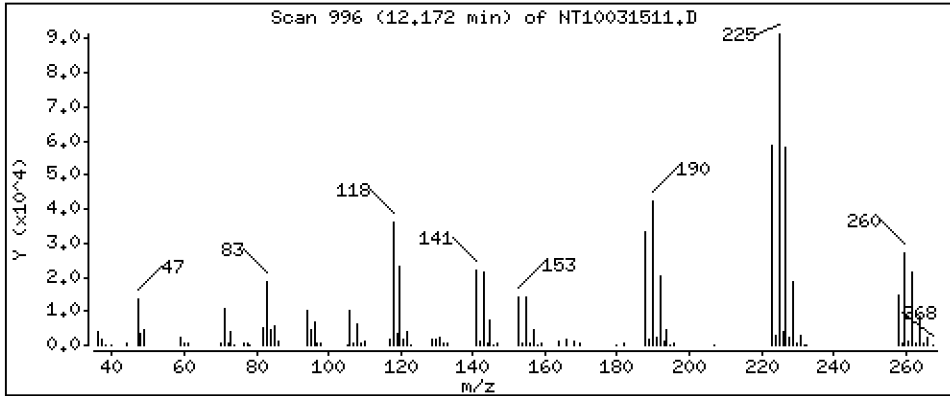
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 4,834 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

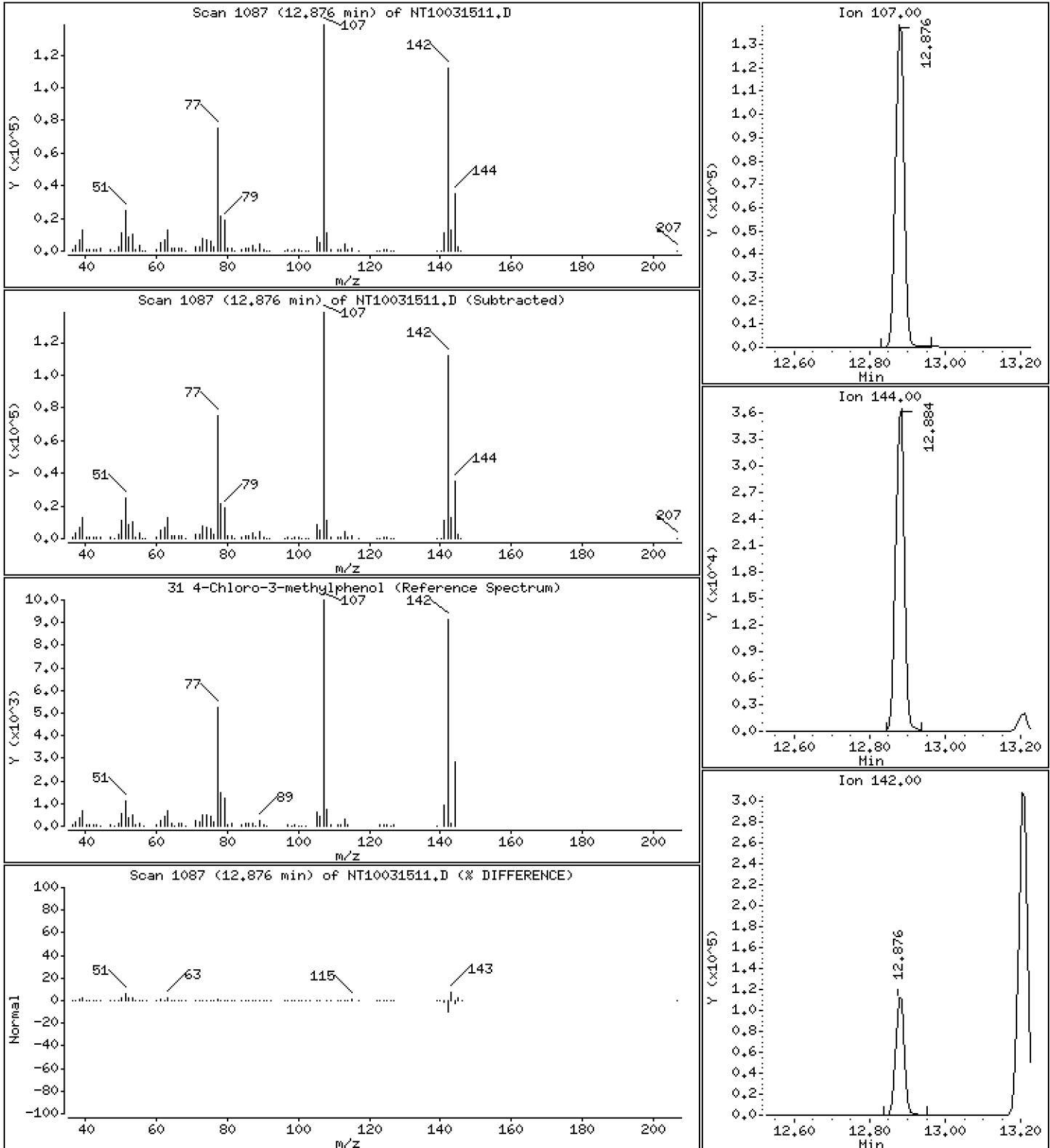
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

31 4-Chloro-3-methylphenol

Concentration: 4,640 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

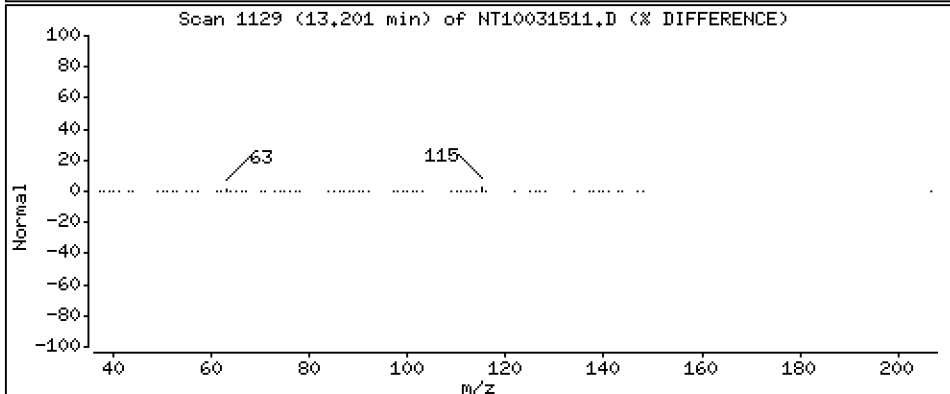
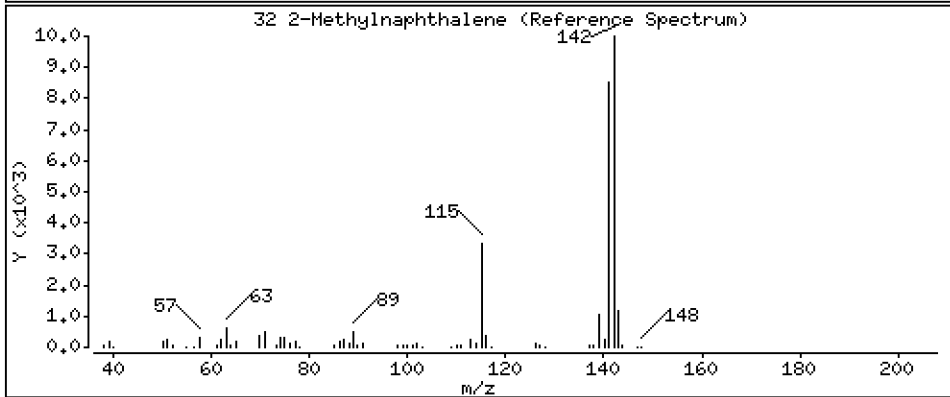
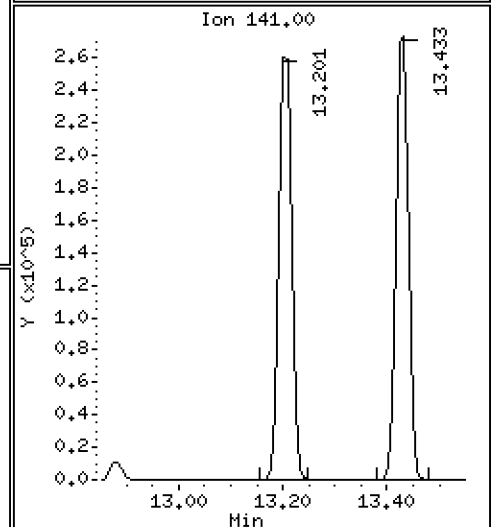
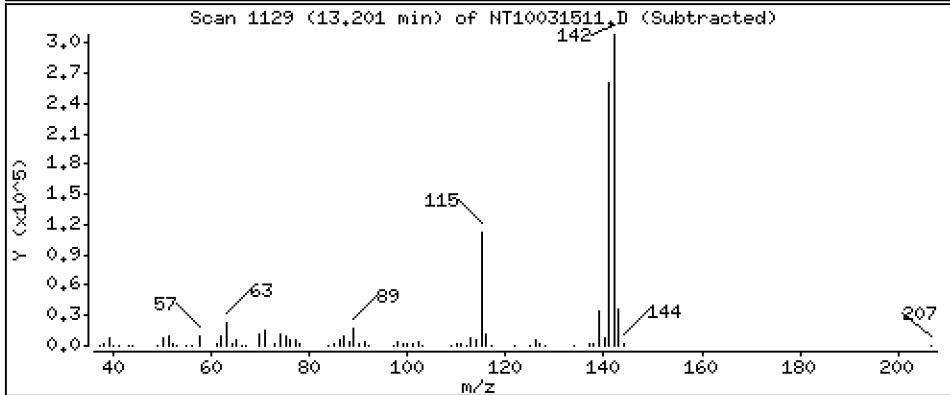
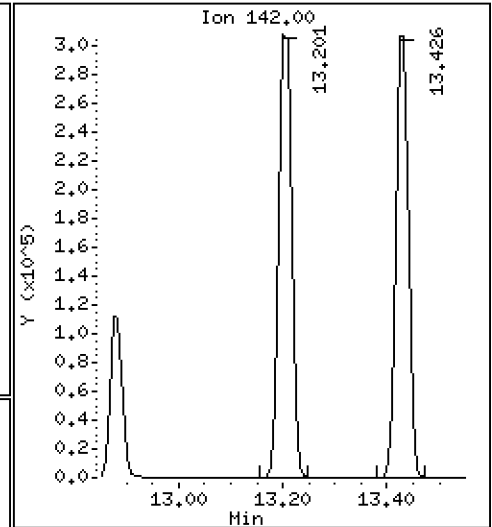
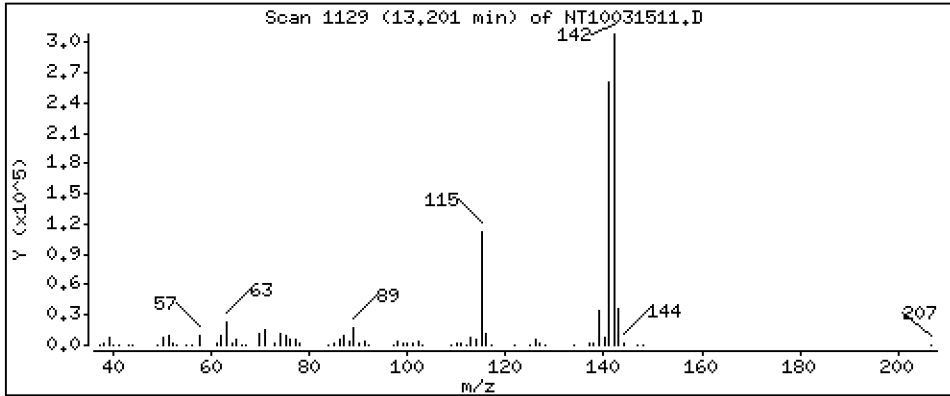
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 4,596 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

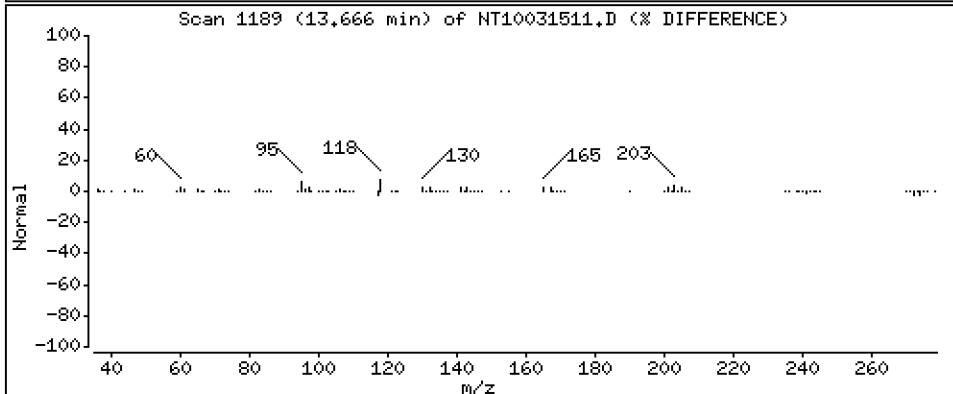
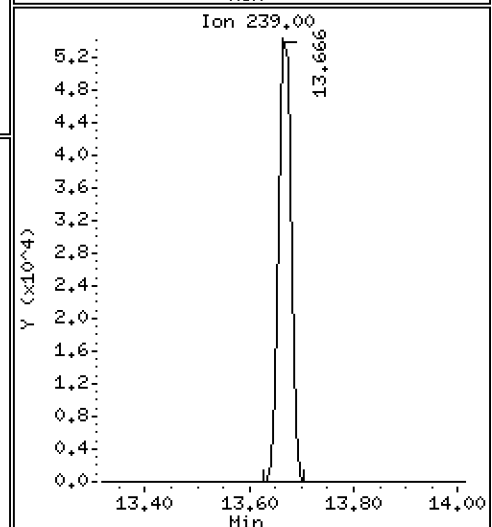
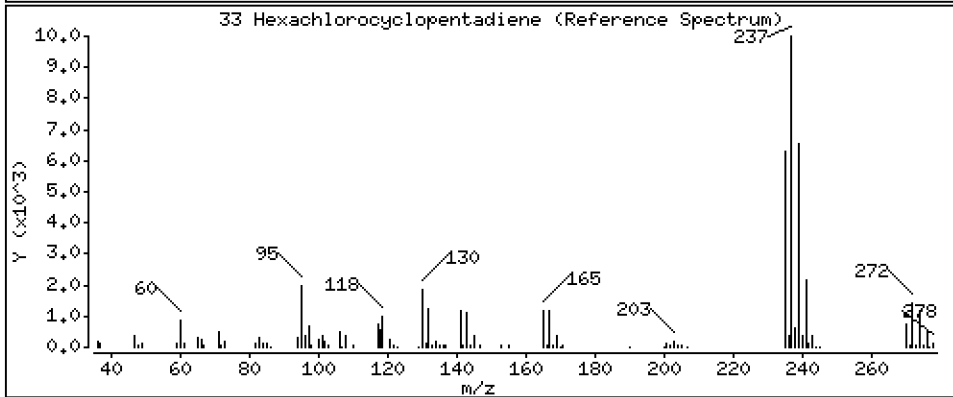
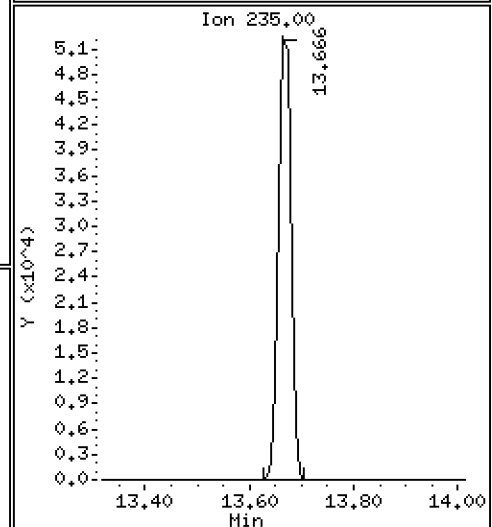
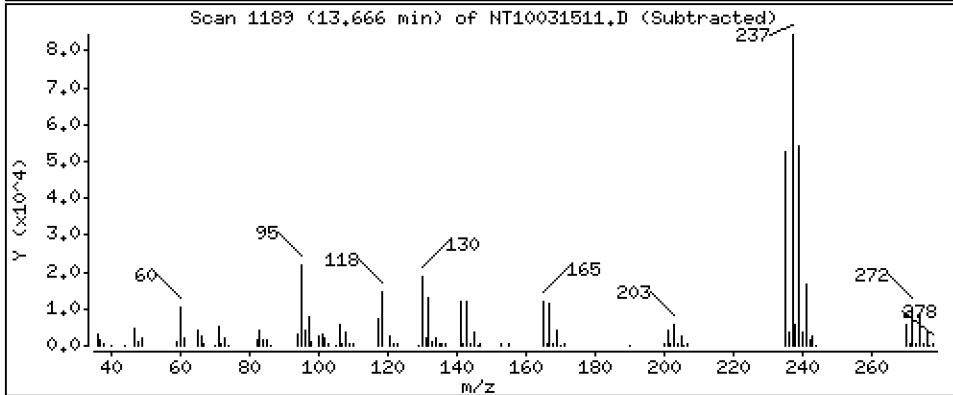
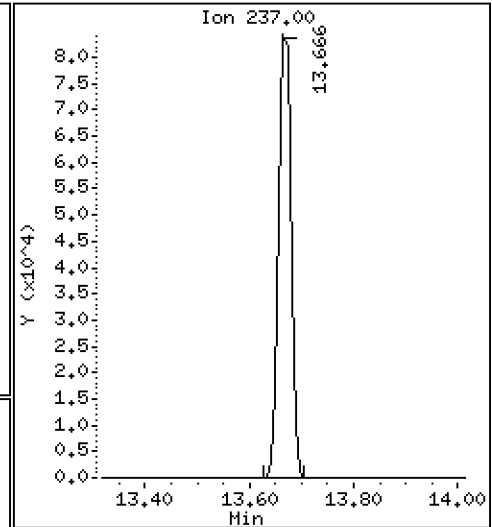
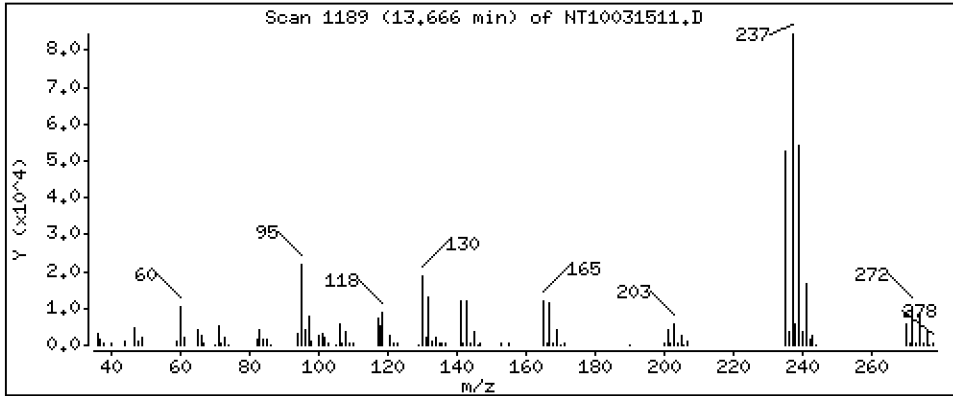
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

33 Hexachlorocyclopentadiene

Concentration: 4.729 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

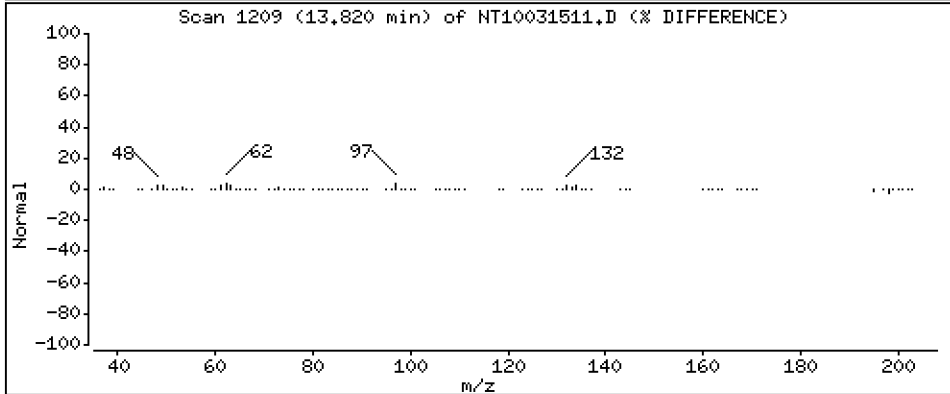
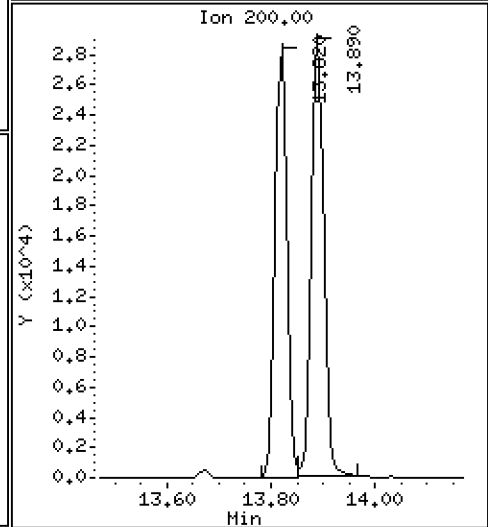
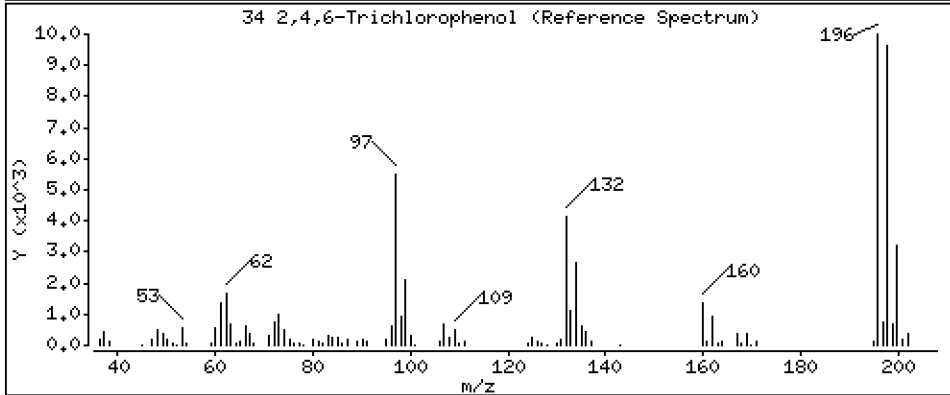
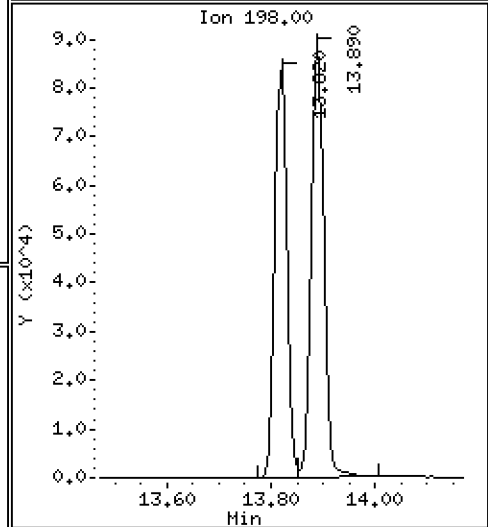
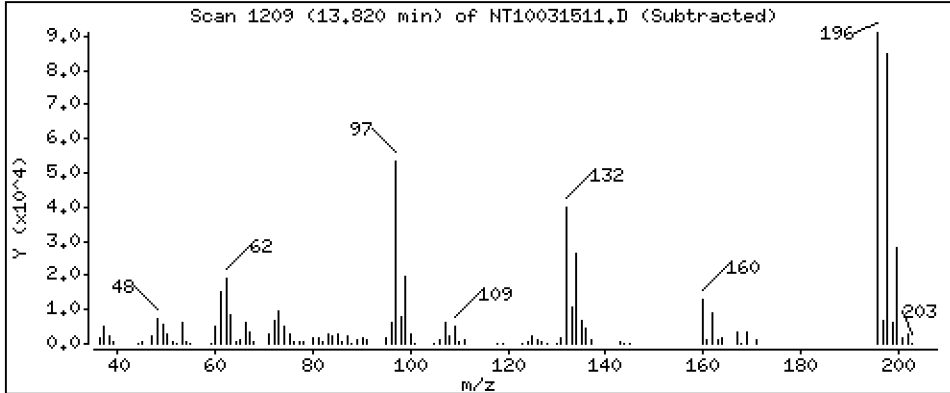
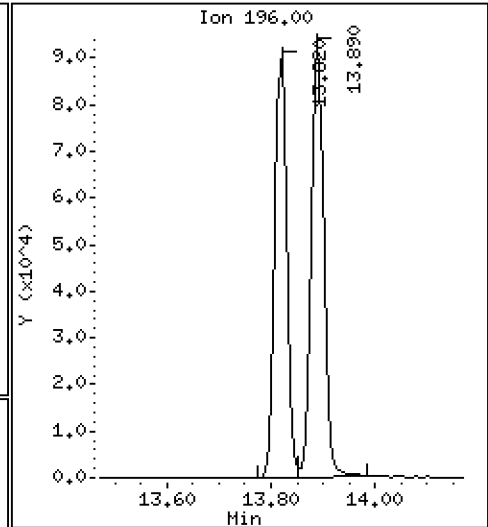
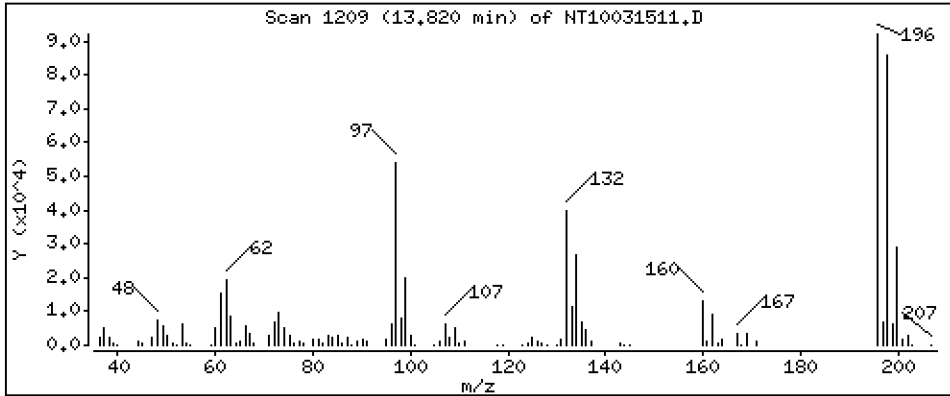
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

34 2,4,6-Trichlorophenol

Concentration: 4,596 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

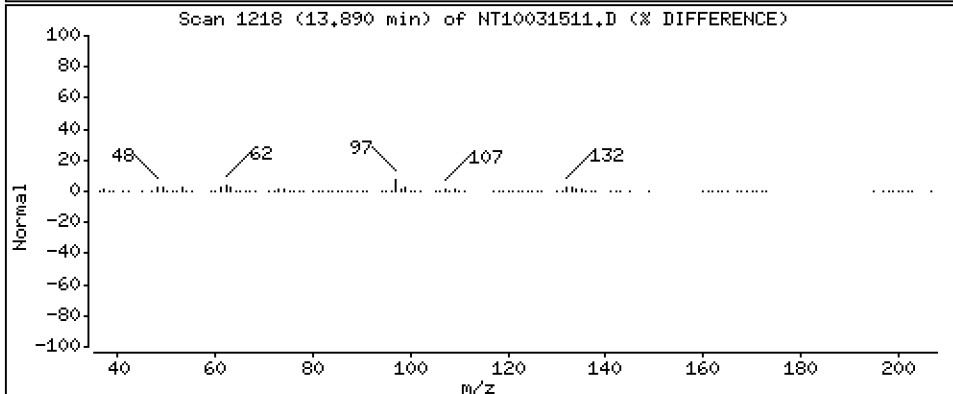
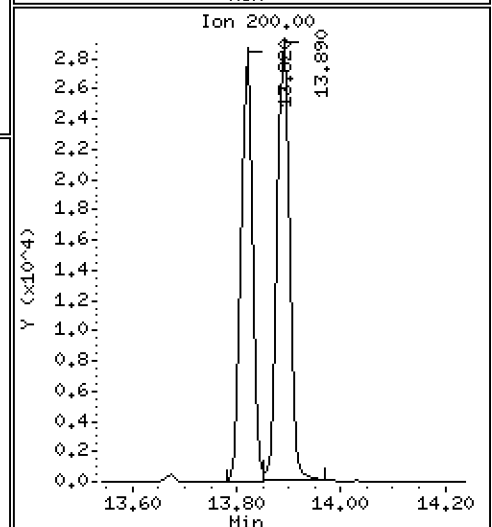
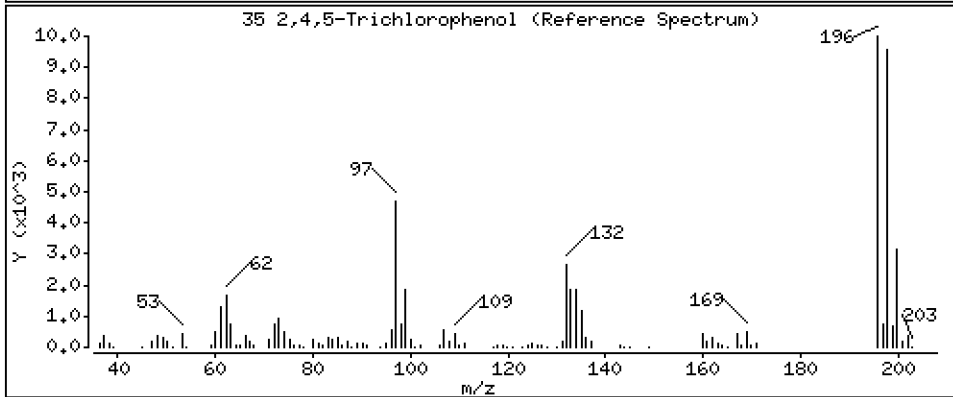
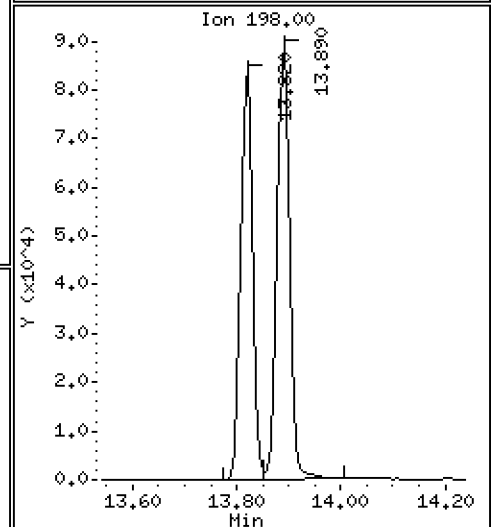
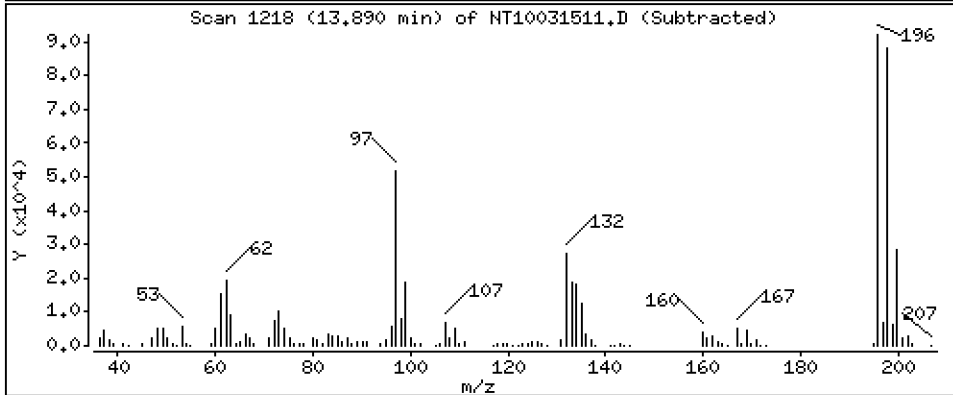
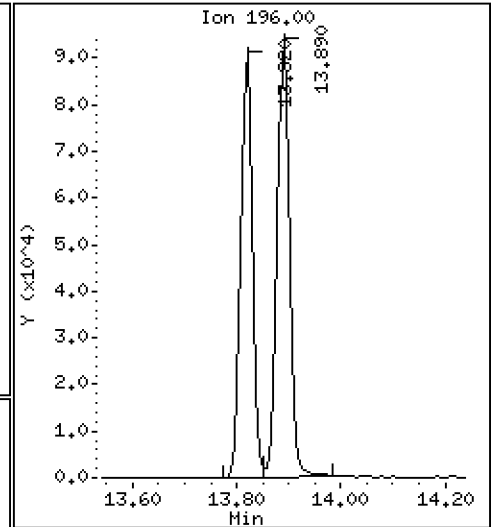
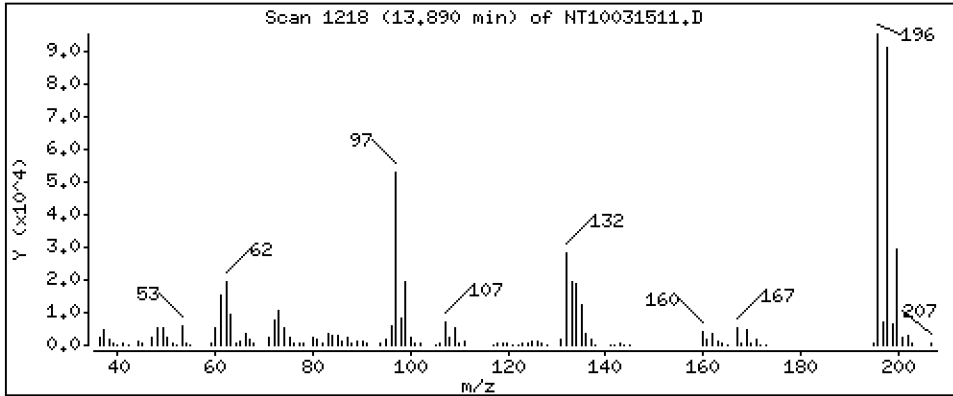
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

35 2,4,5-Trichlorophenol

Concentration: 4,409 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

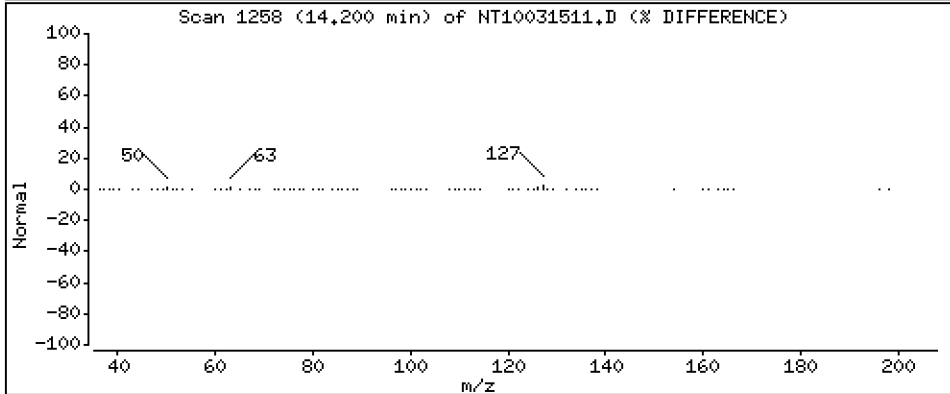
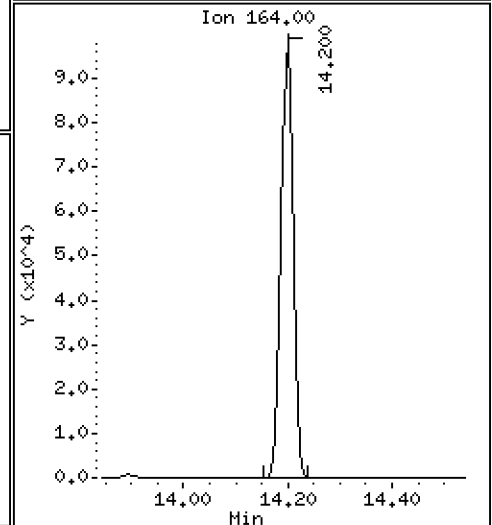
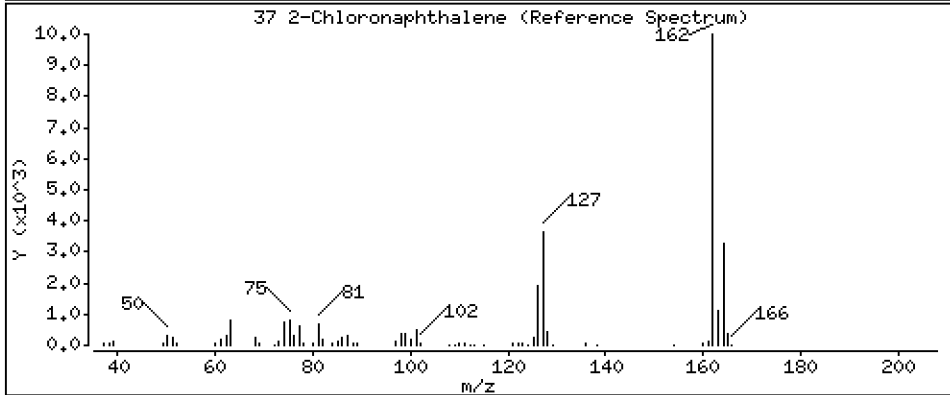
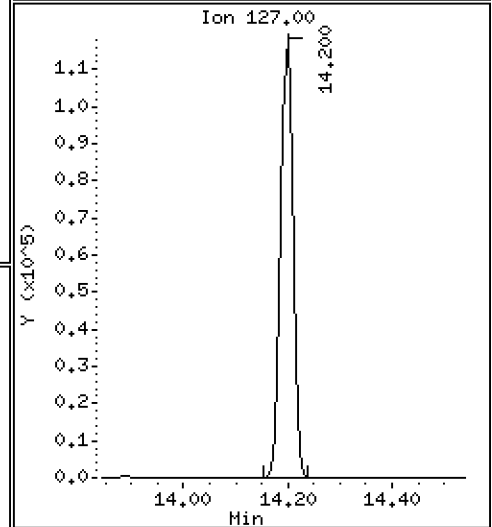
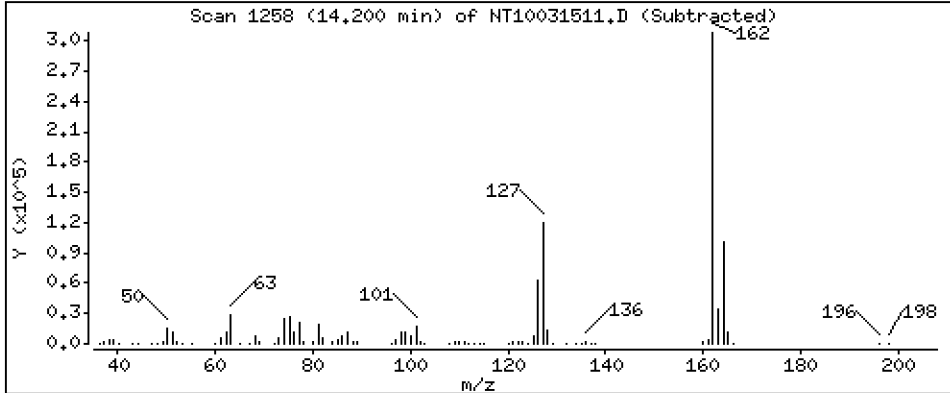
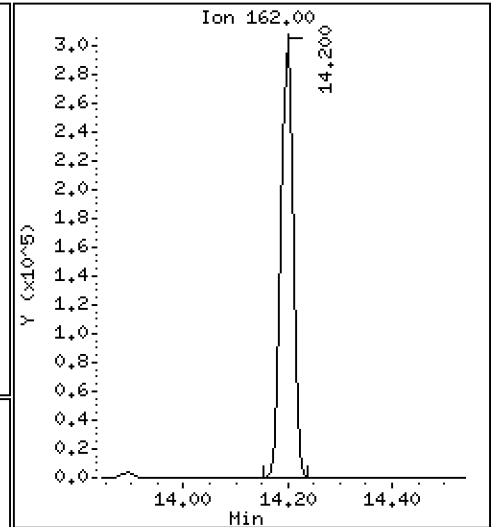
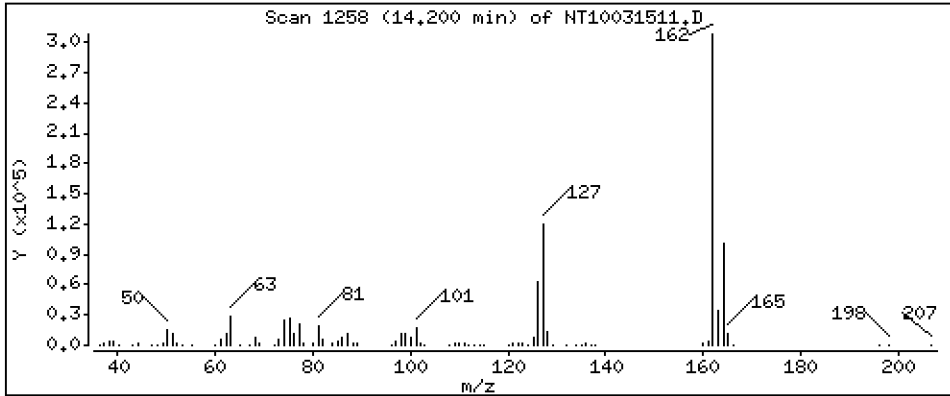
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

37 2-Chloronaphthalene

Concentration: 4,796 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

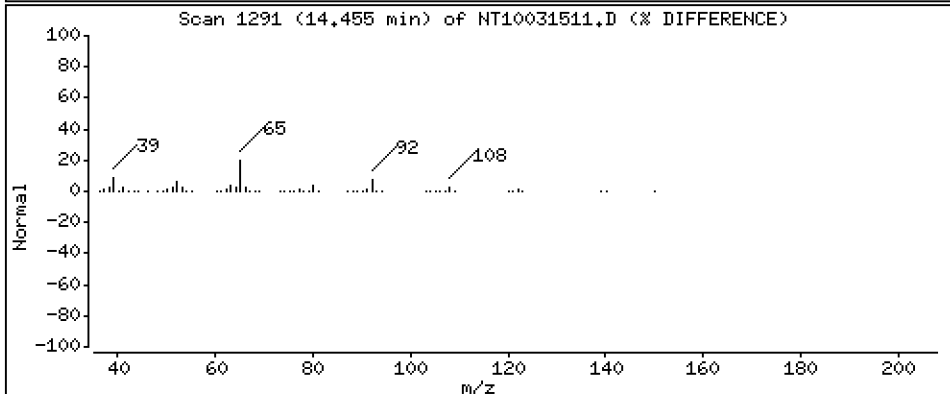
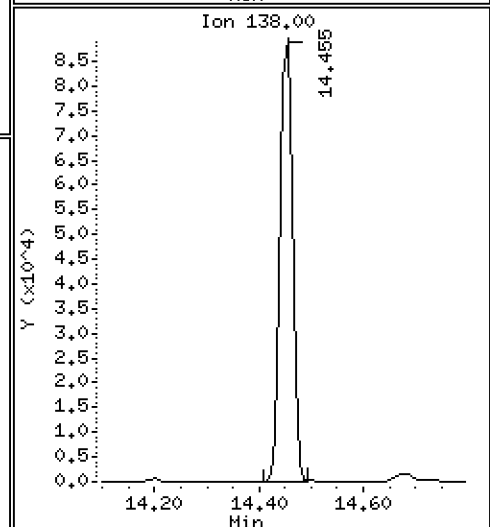
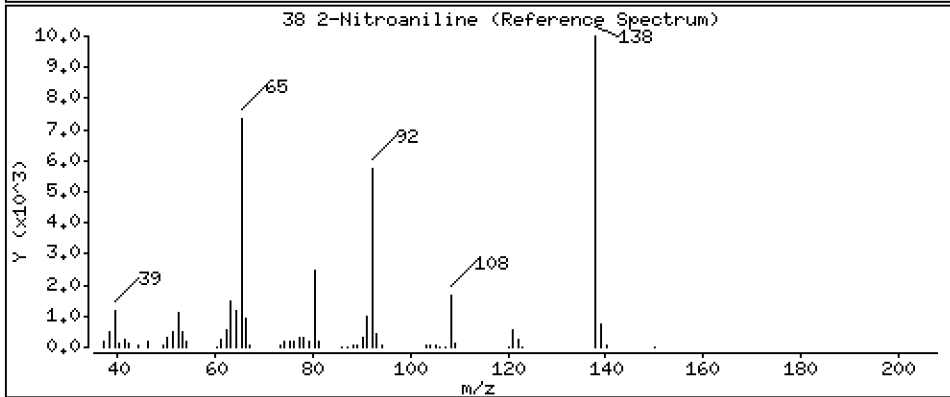
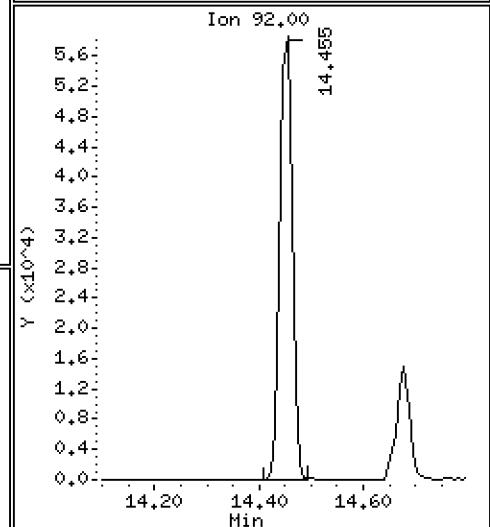
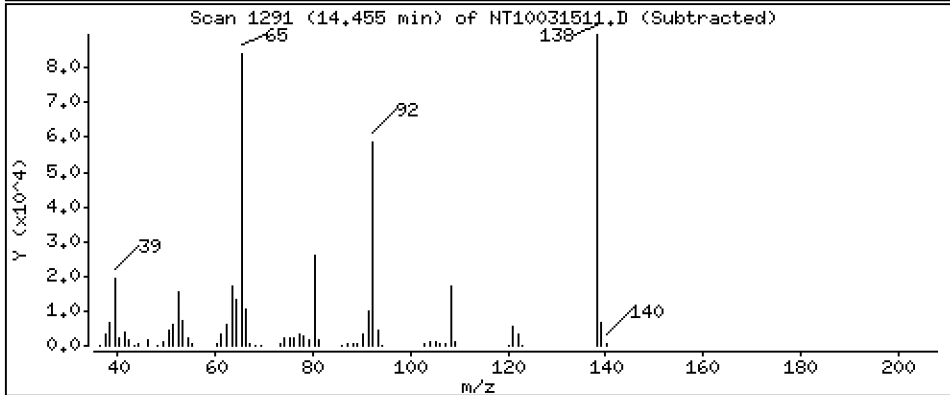
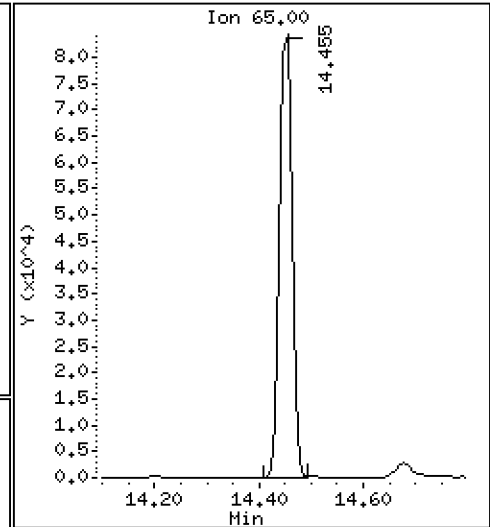
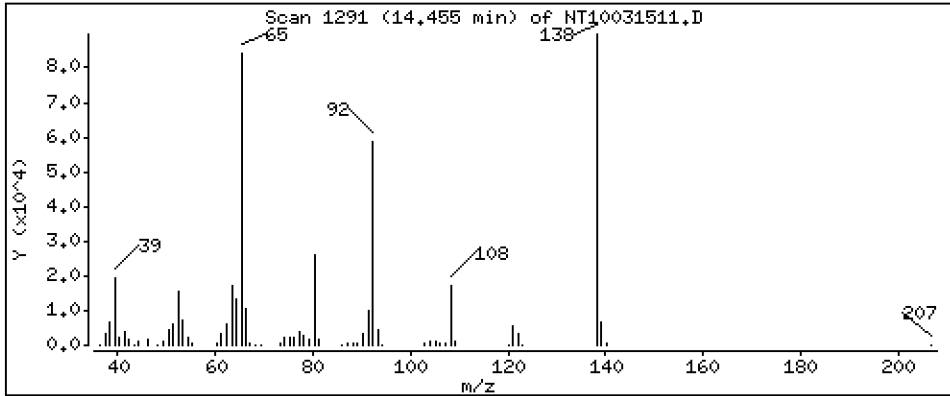
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

38 2-Nitroaniline

Concentration: 4.911 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

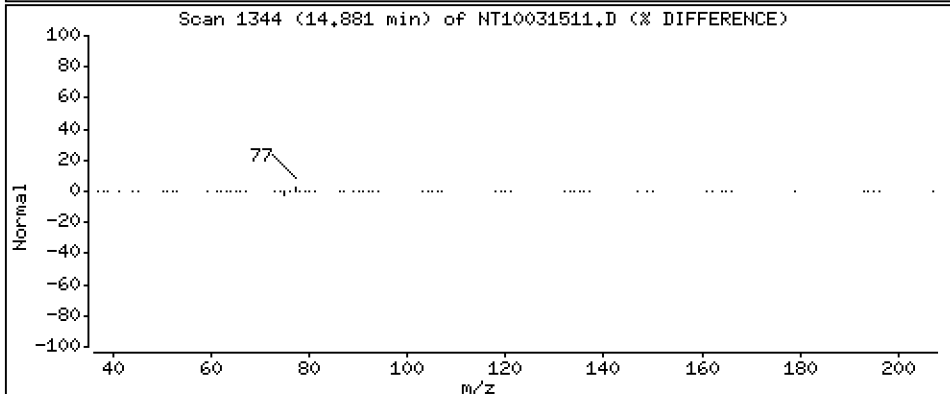
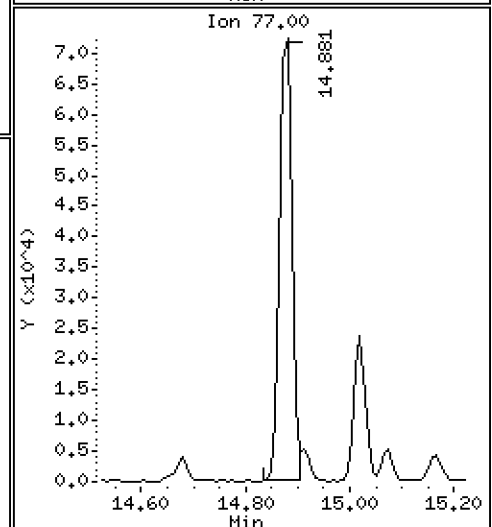
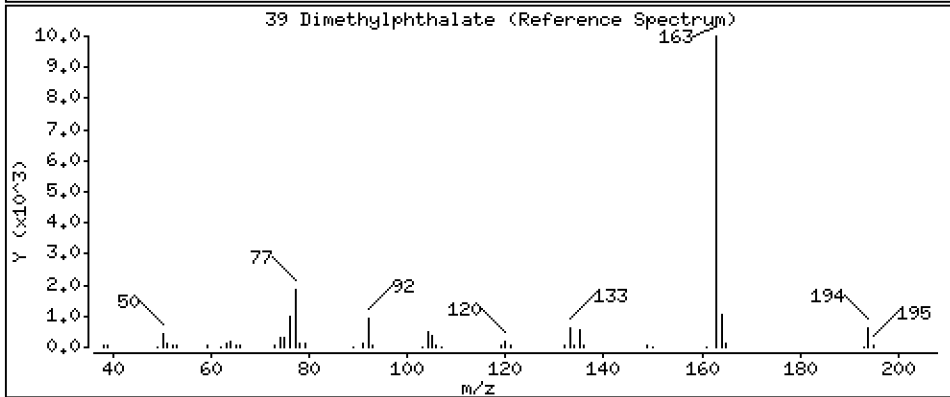
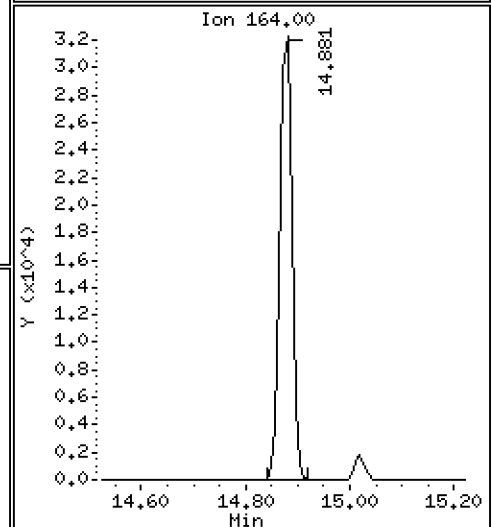
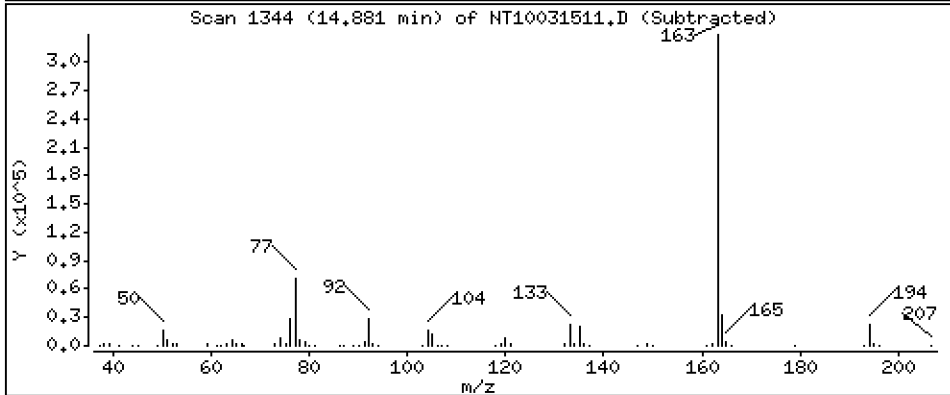
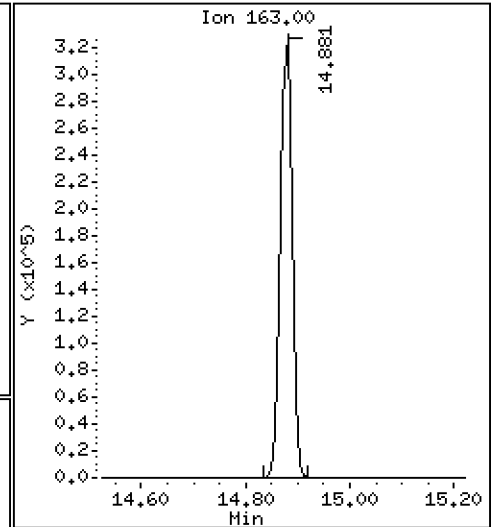
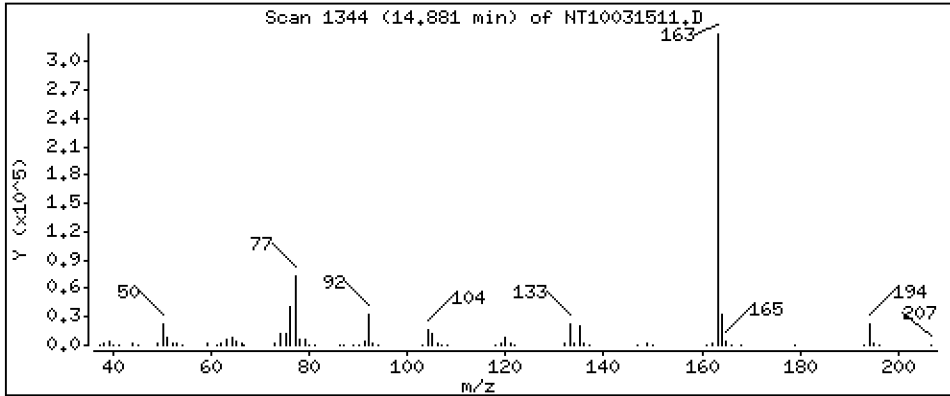
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

39 Dimethylphthalate

Concentration: 4.937 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

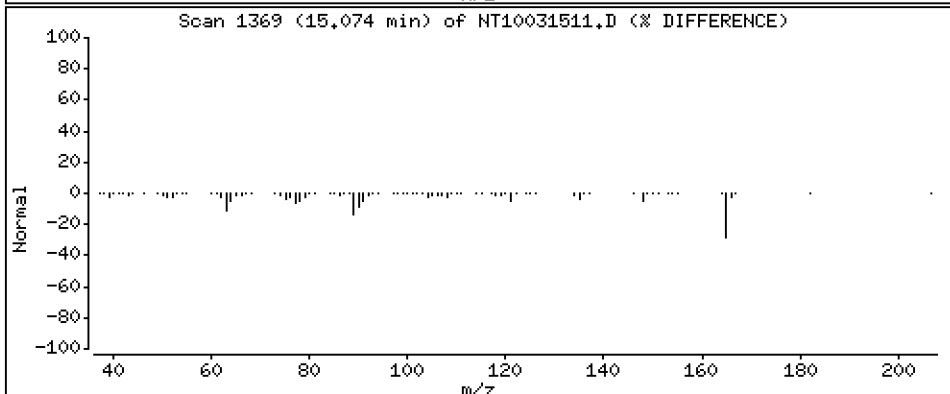
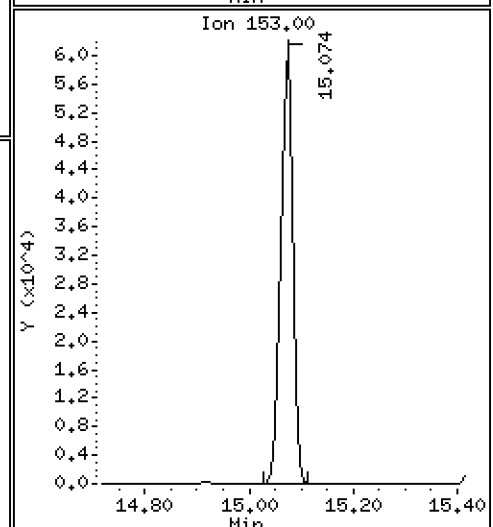
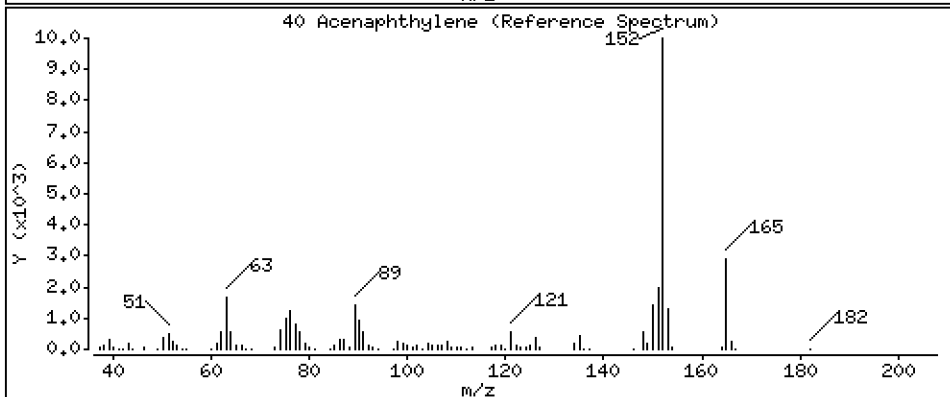
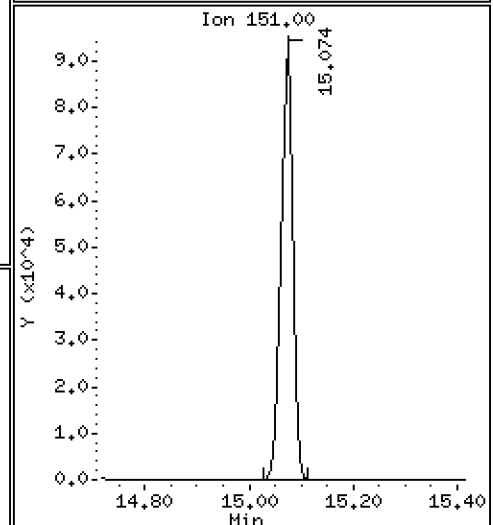
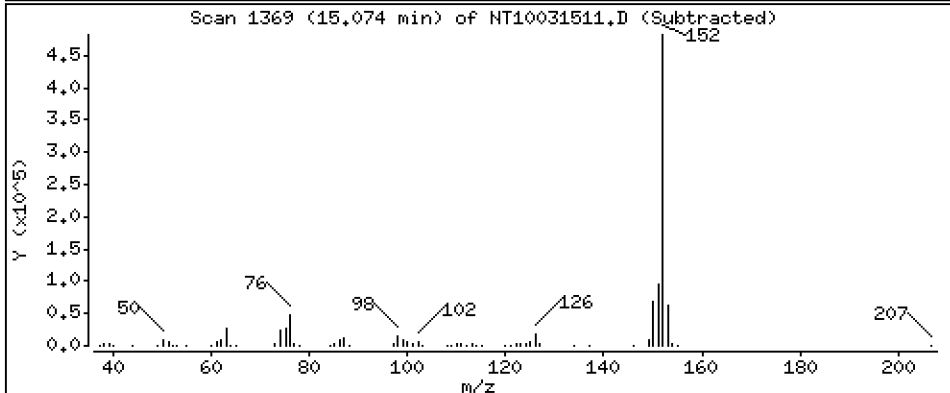
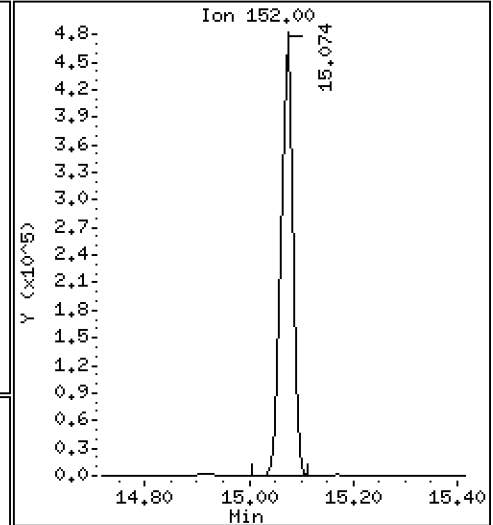
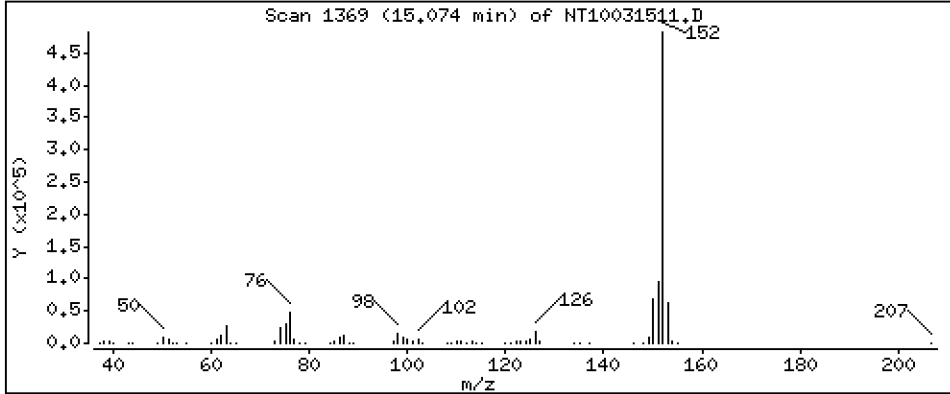
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 4,805 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

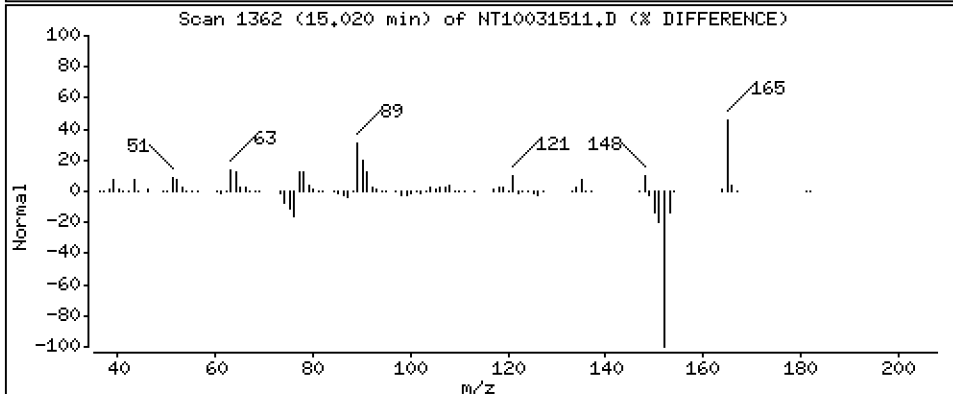
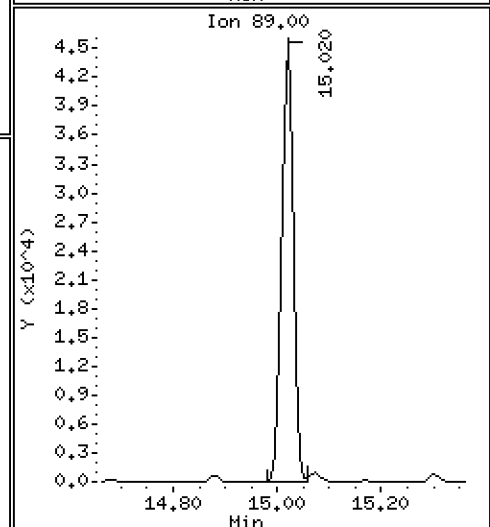
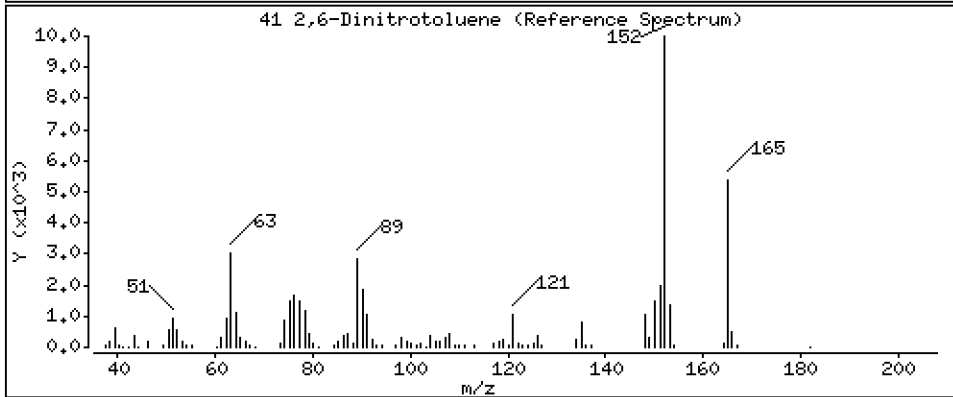
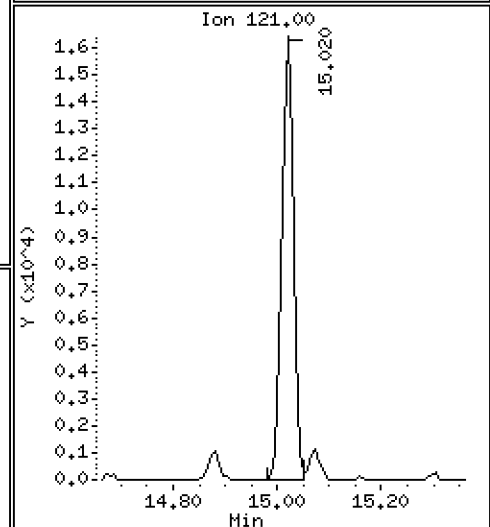
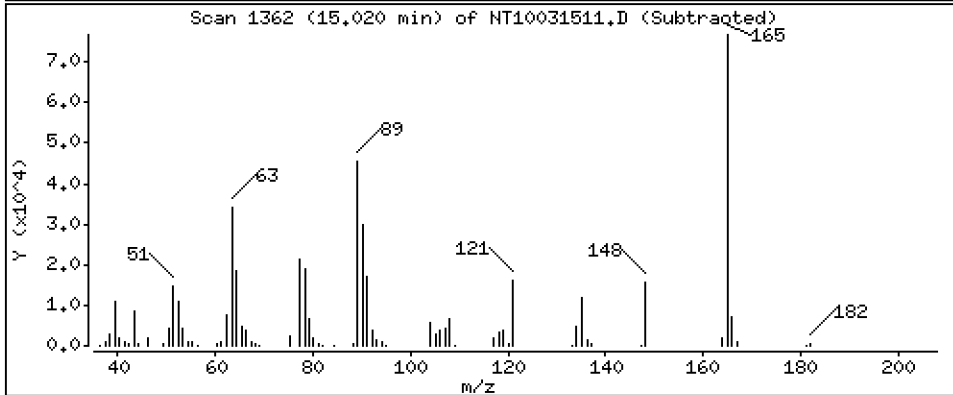
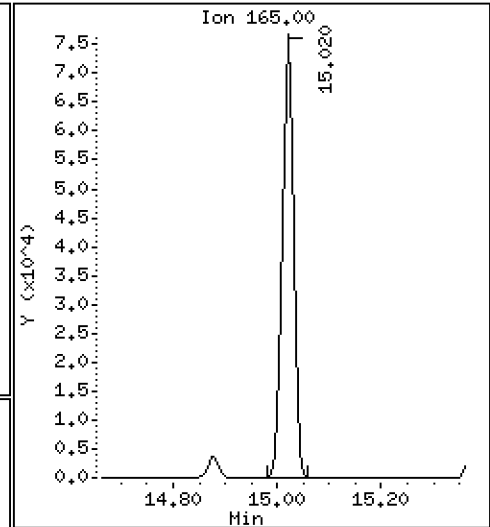
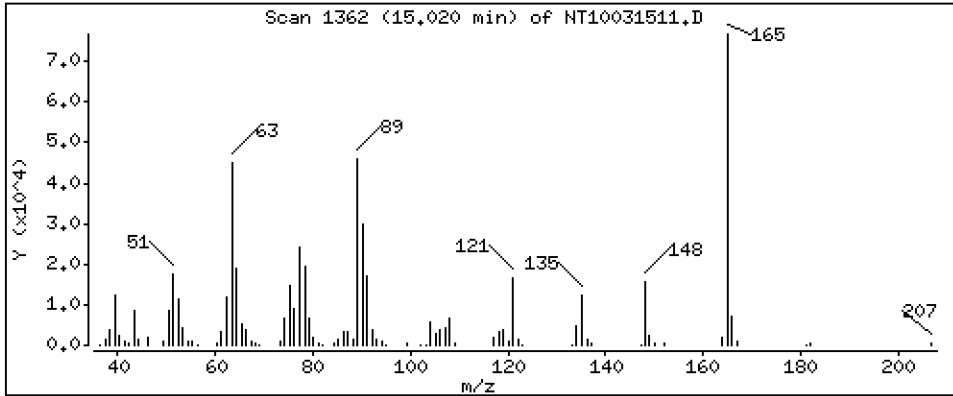
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

41 2,6-Dinitrotoluene

Concentration: 5,298 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

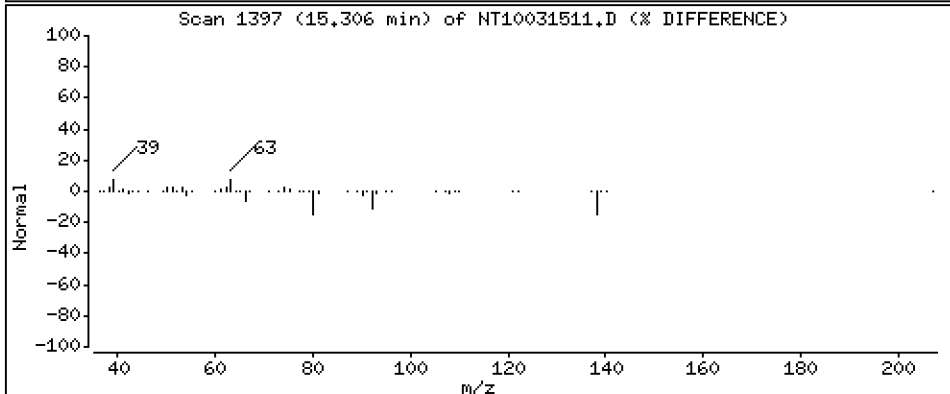
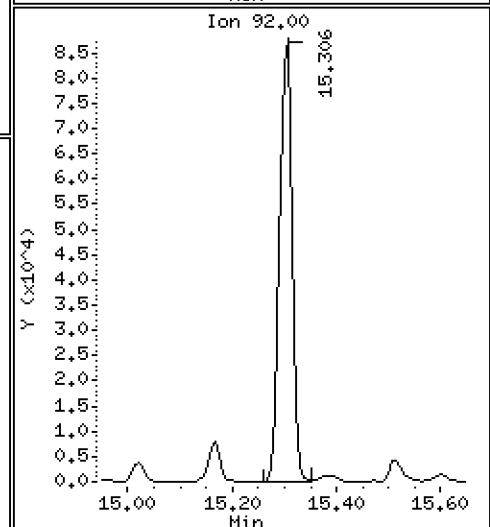
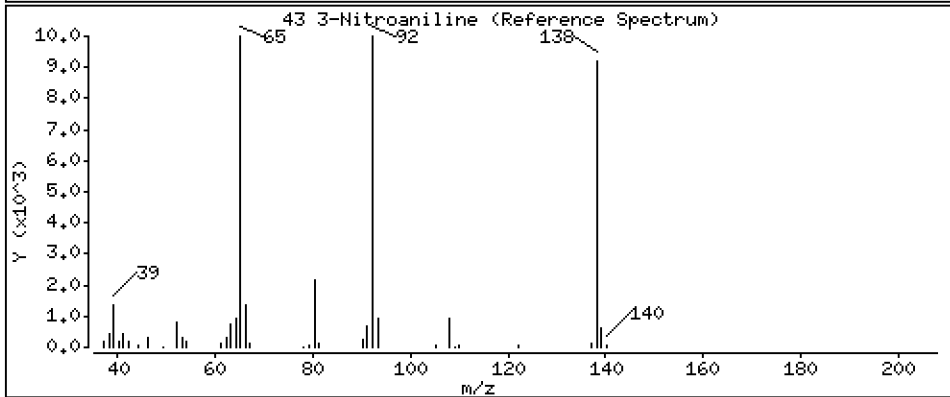
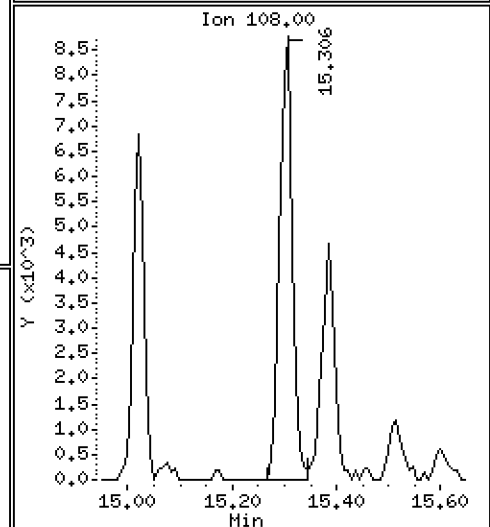
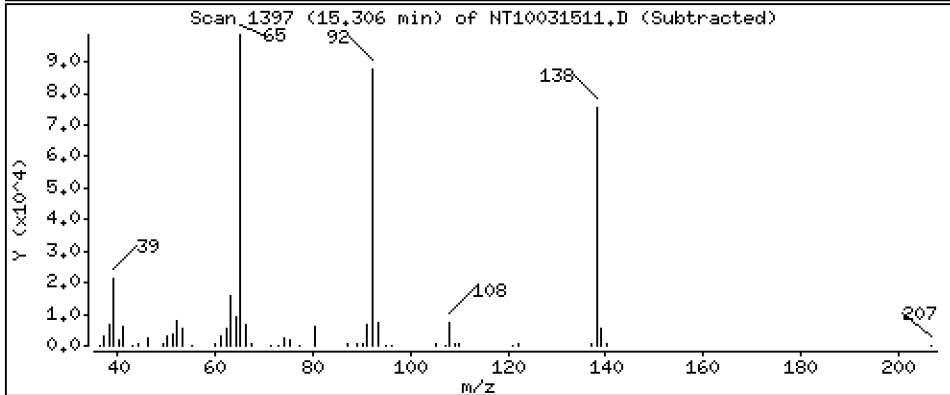
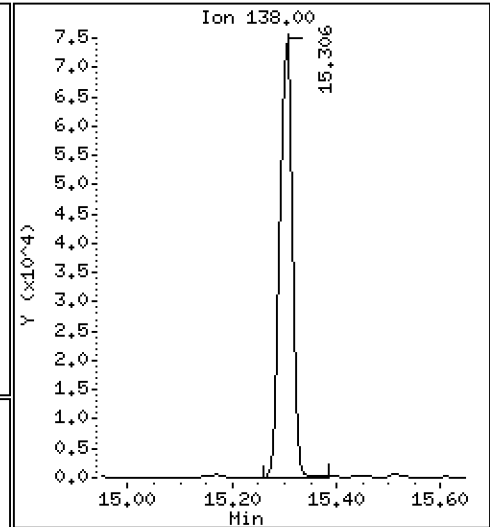
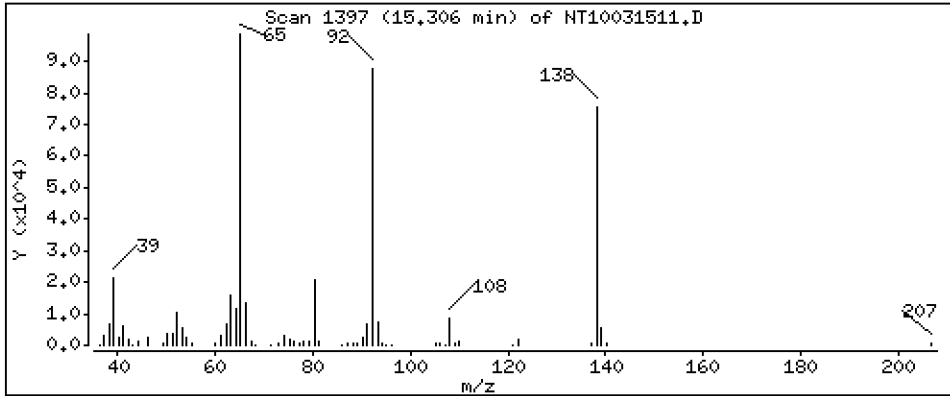
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

43 3-Nitroaniline

Concentration: 5,014 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

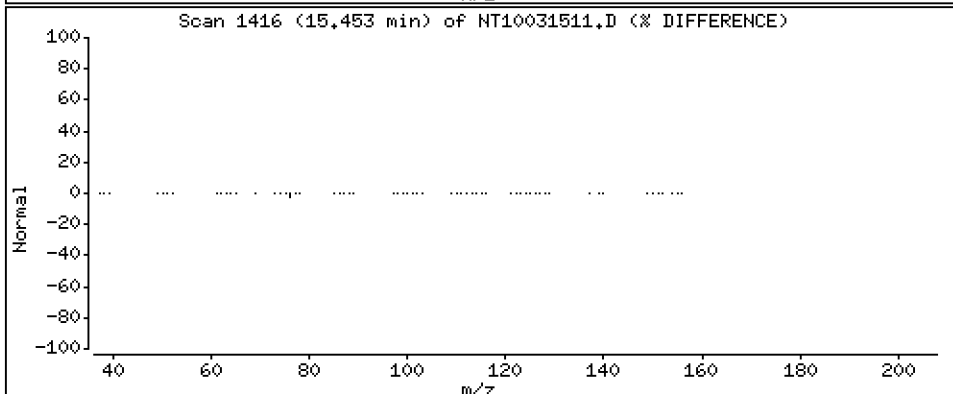
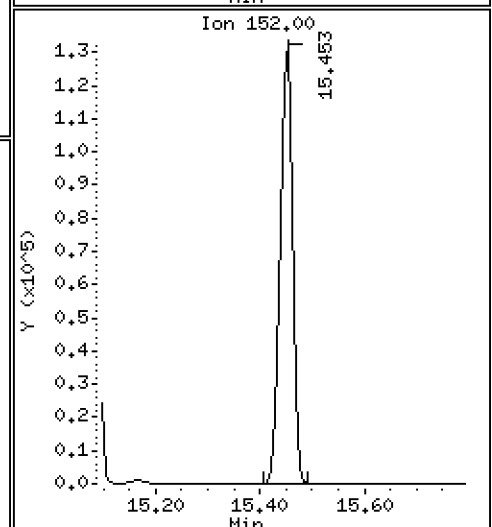
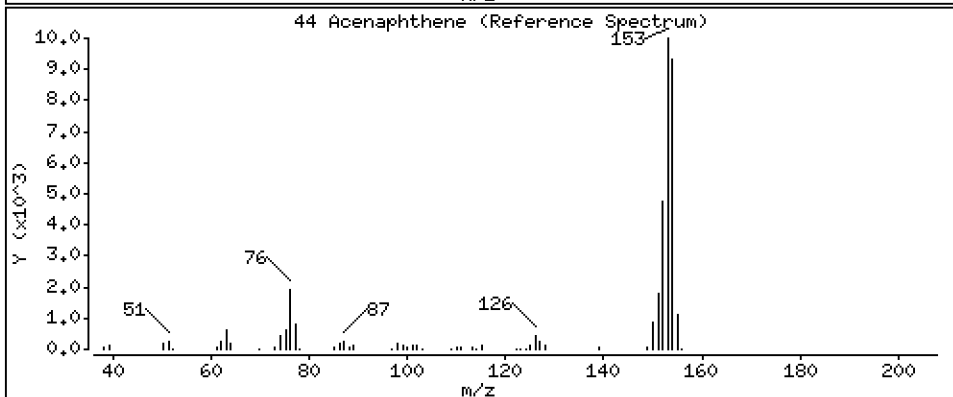
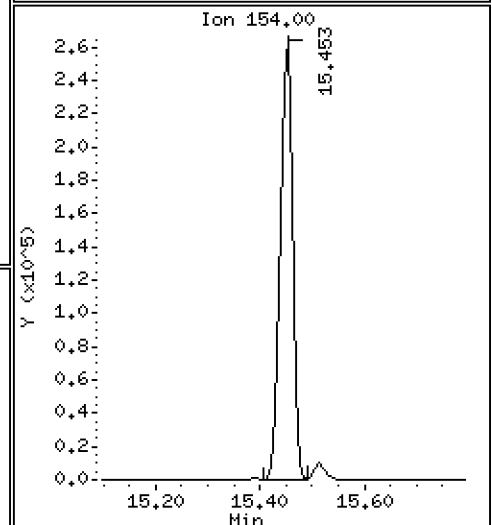
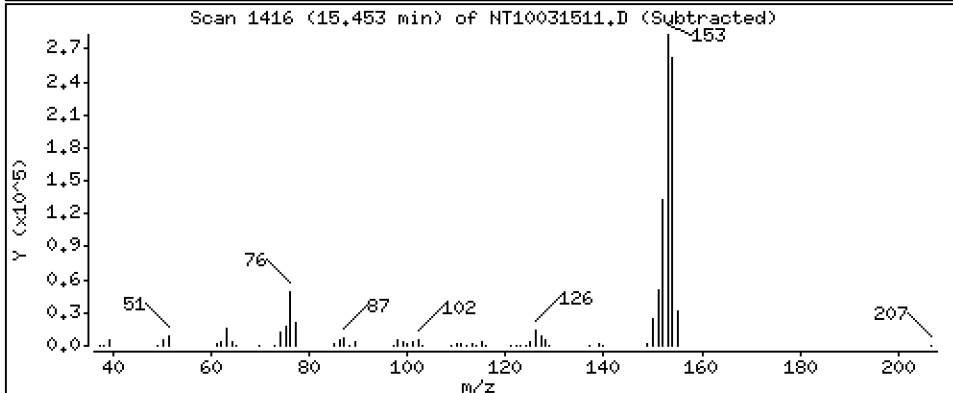
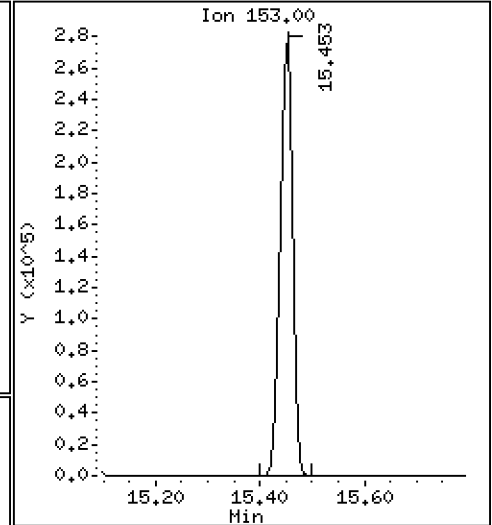
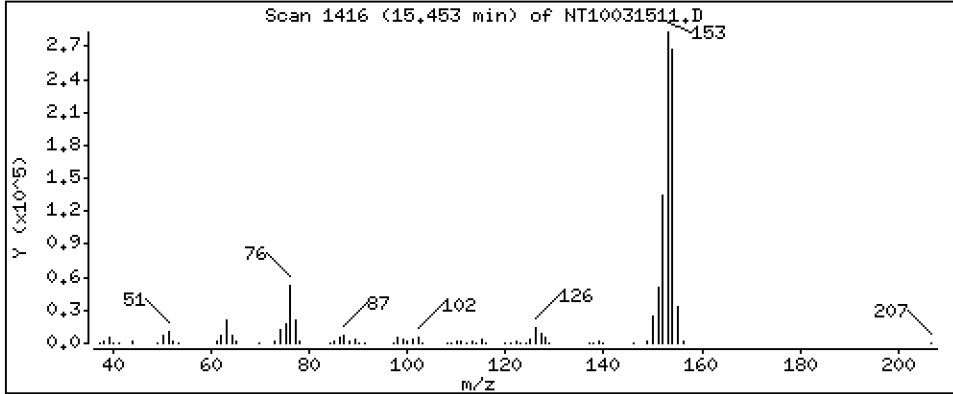
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 4,776 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

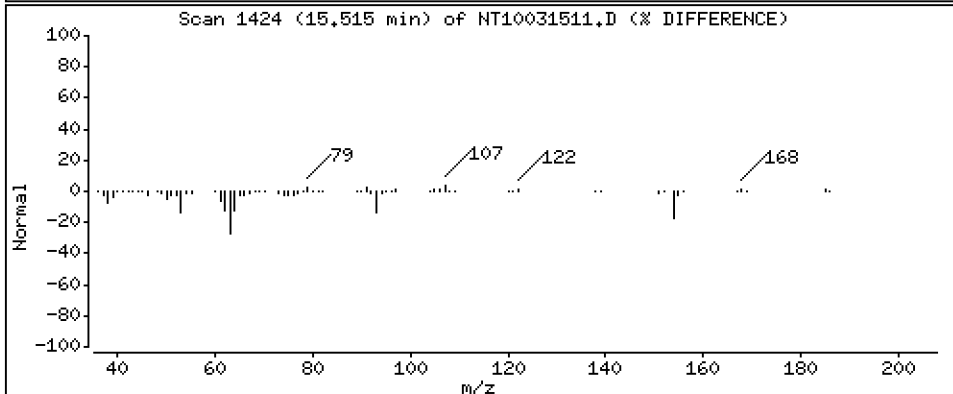
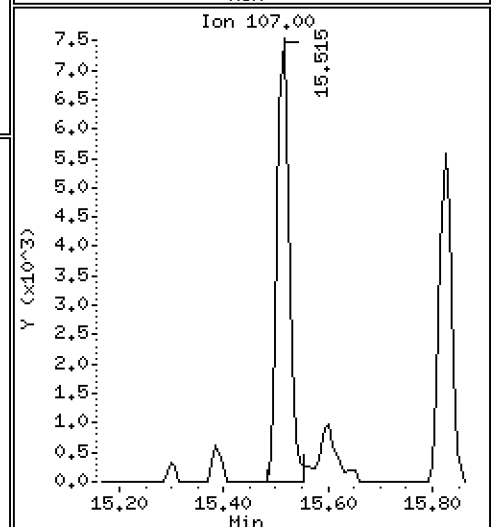
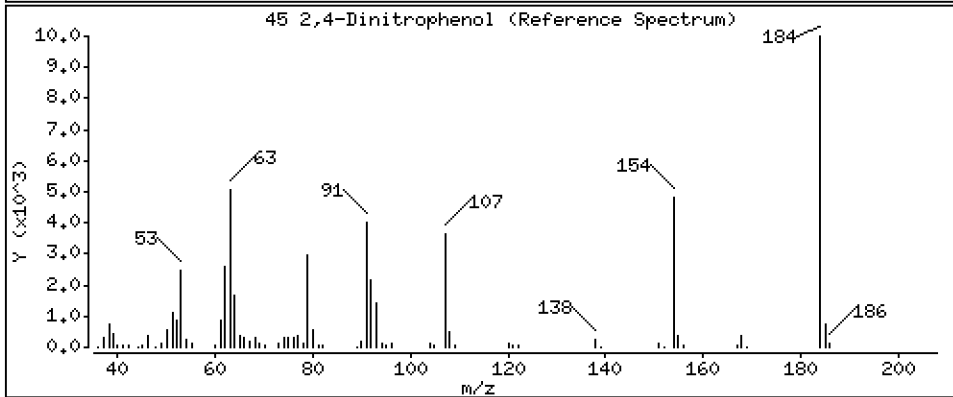
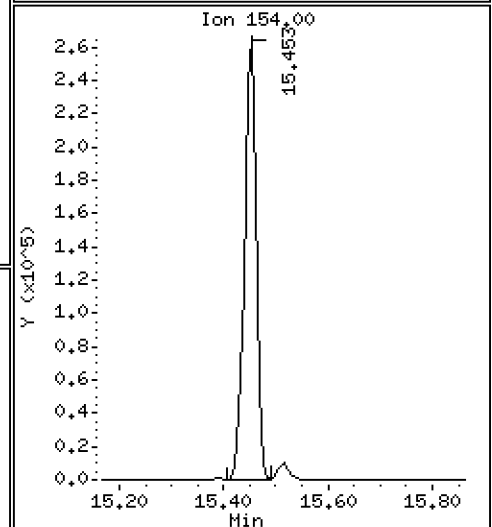
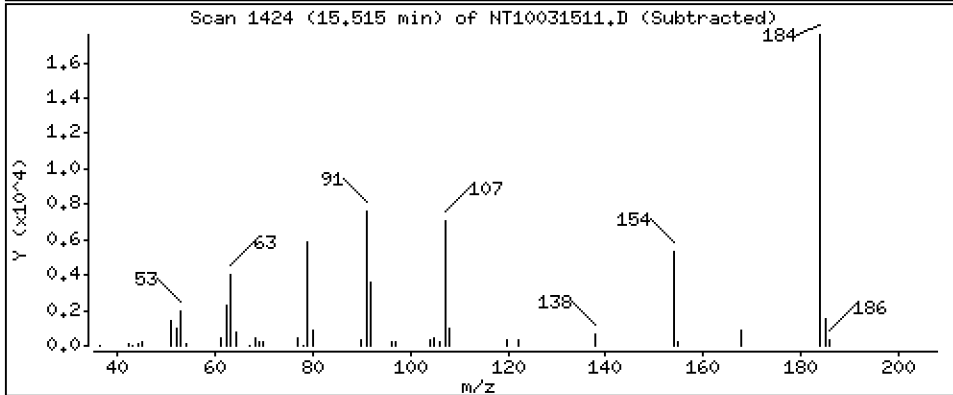
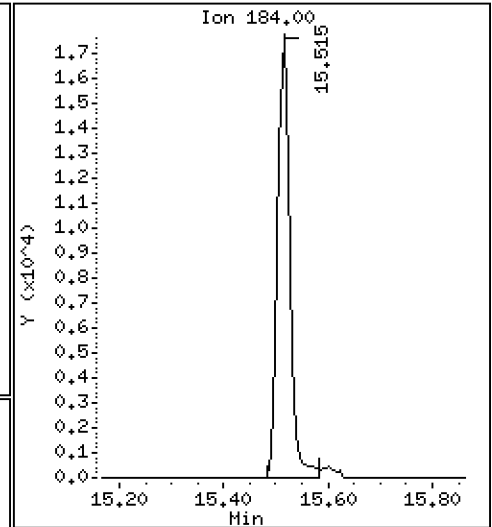
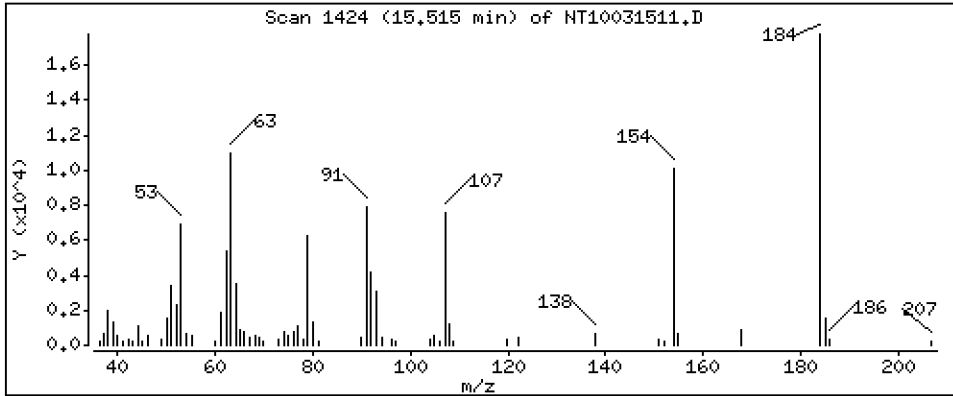
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

45 2,4-Dinitrophenol

Concentration: 2,124 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

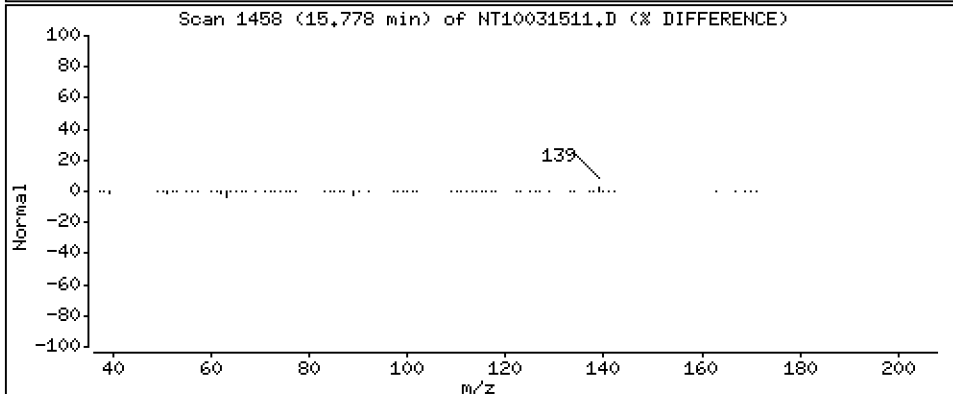
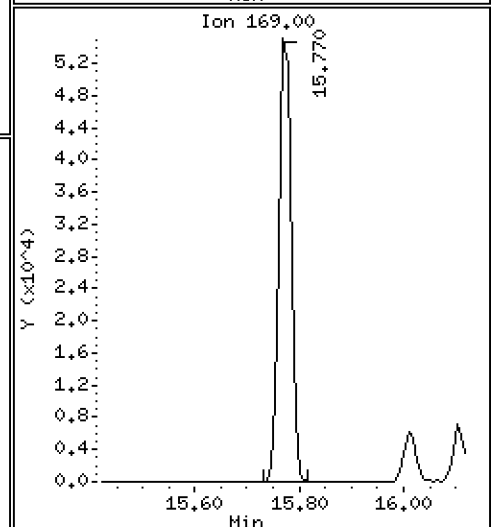
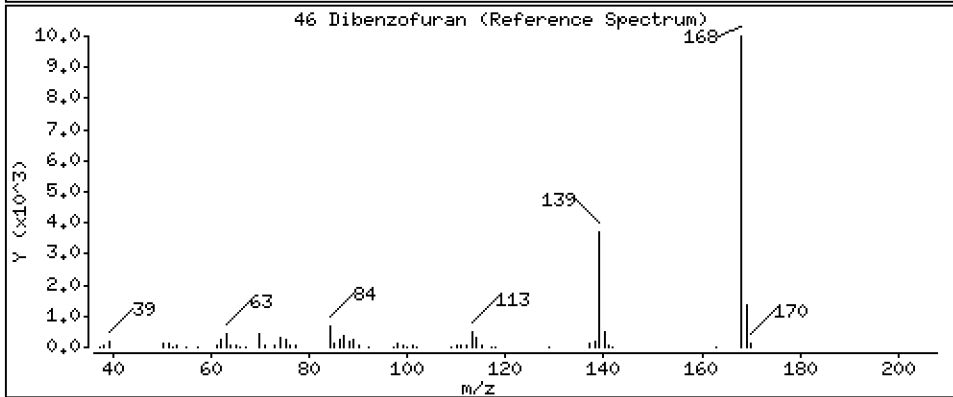
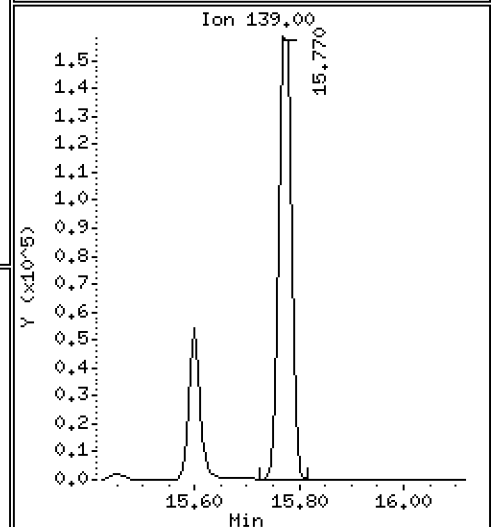
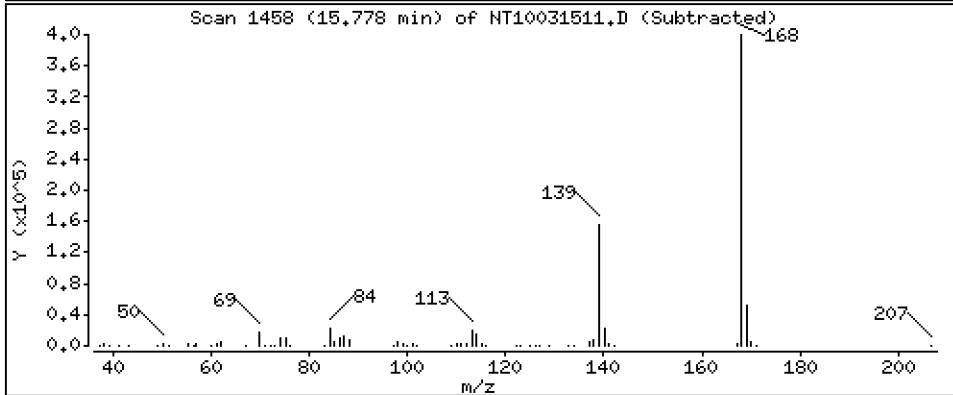
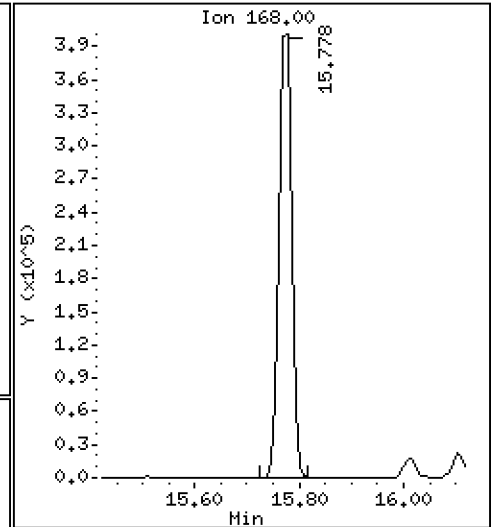
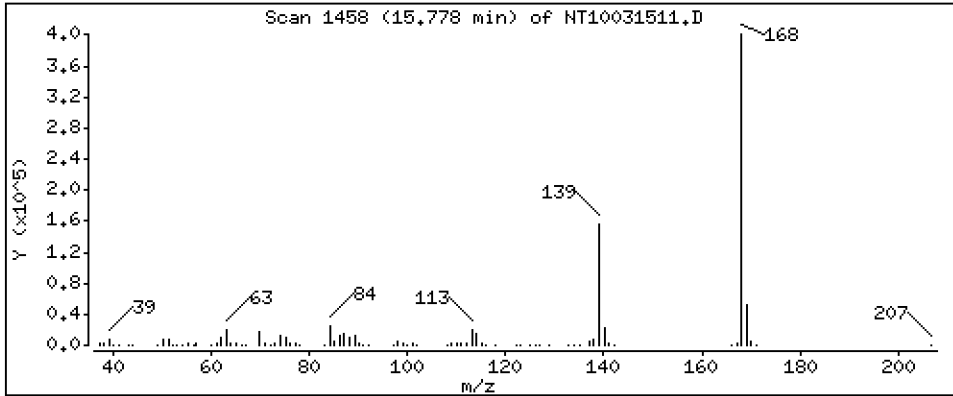
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 4,648 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

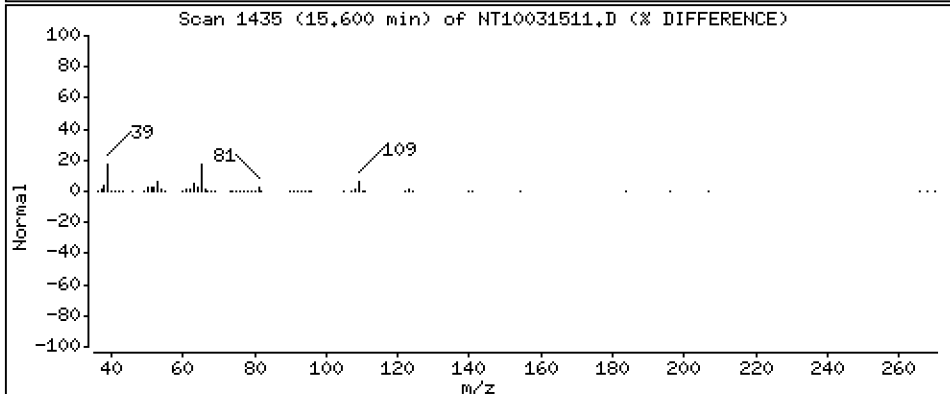
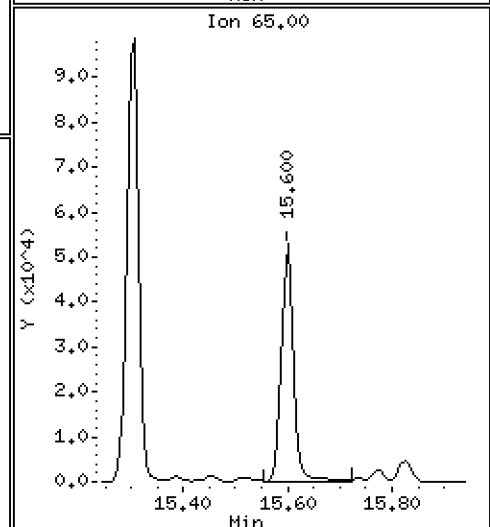
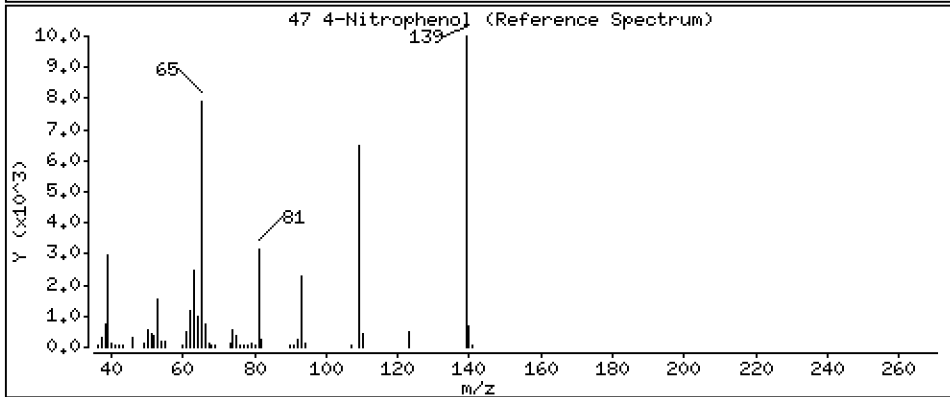
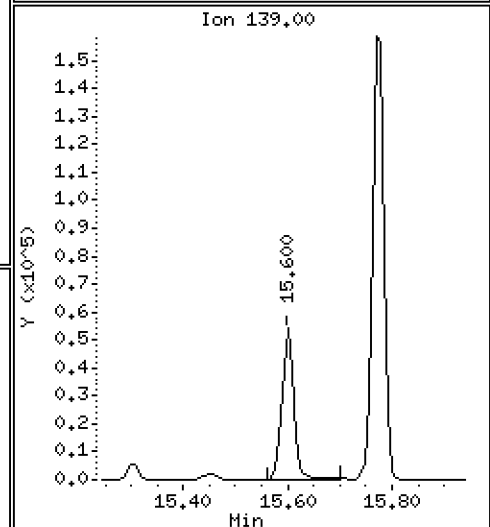
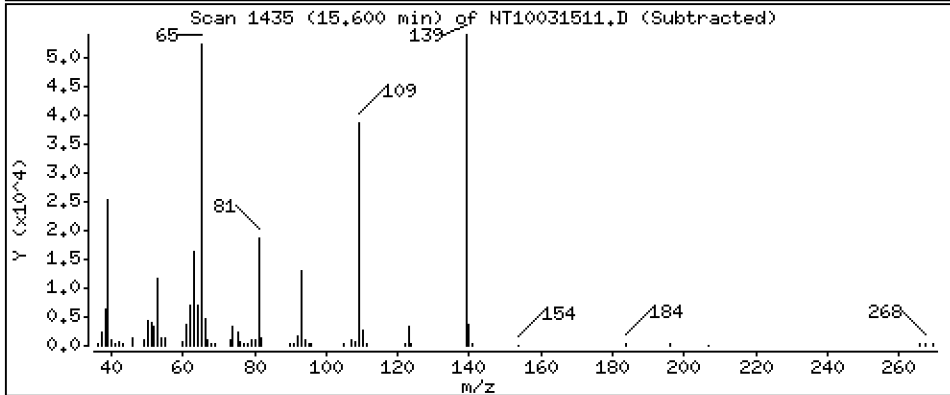
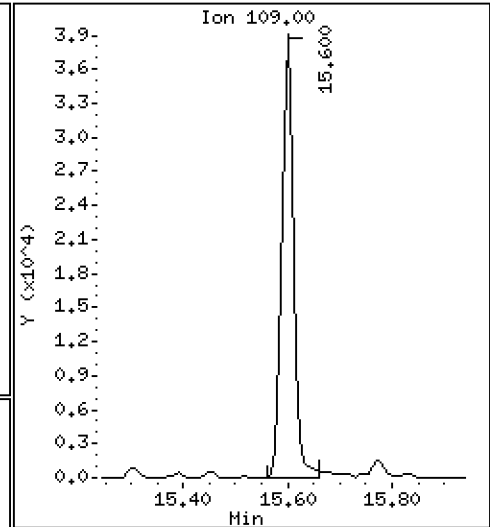
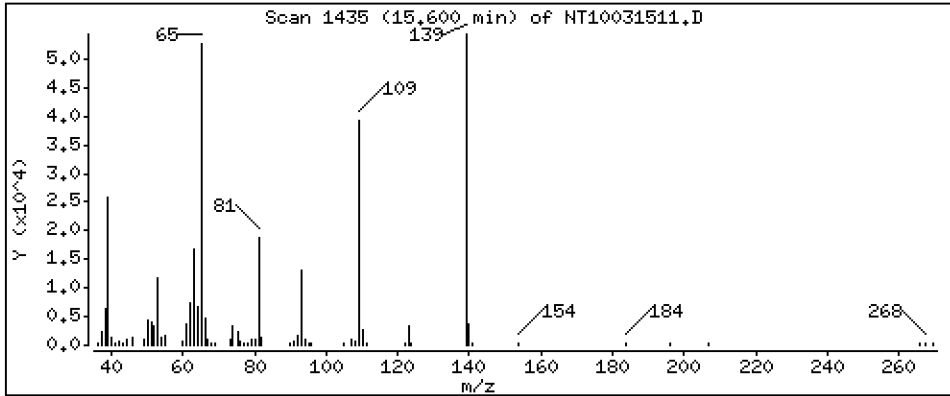
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

47 4-Nitrophenol

Concentration: 3,966 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

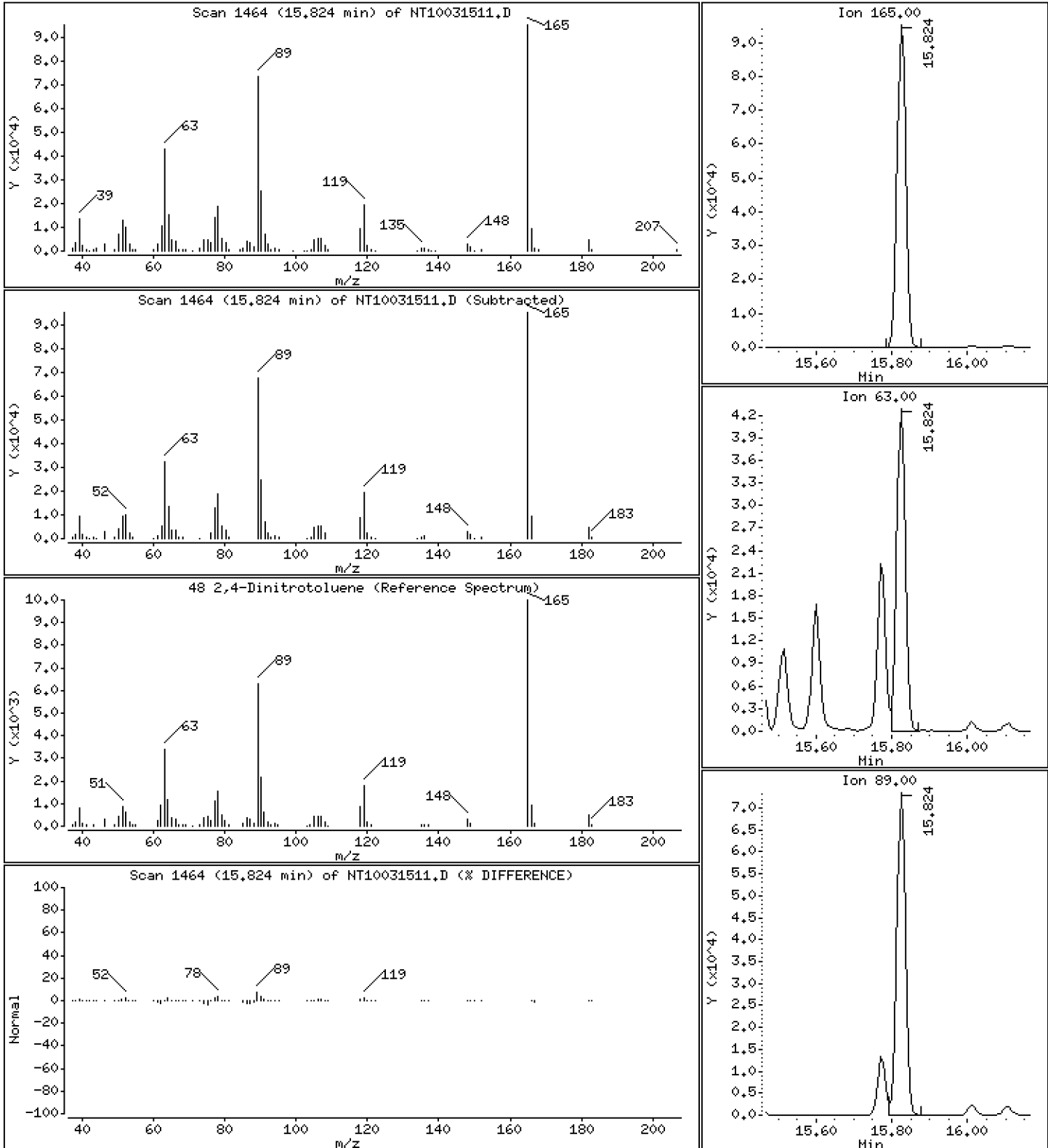
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

48 2,4-Dinitrotoluene

Concentration: 4,510 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

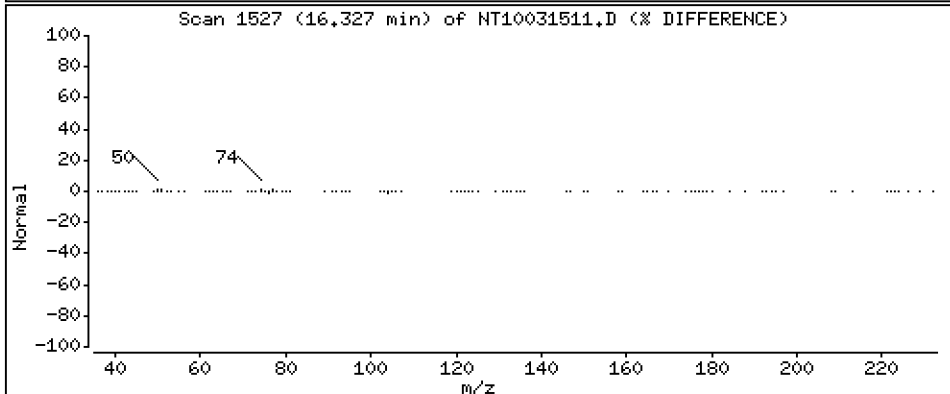
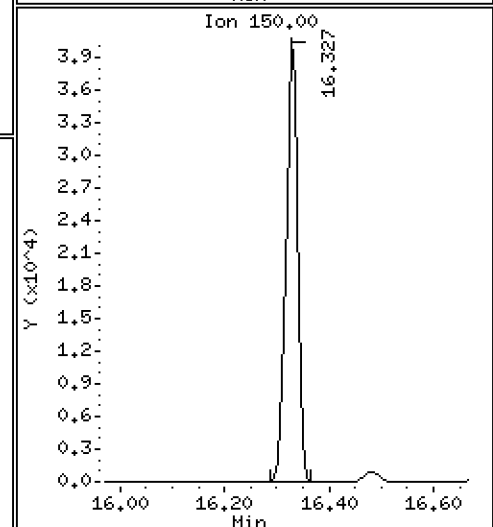
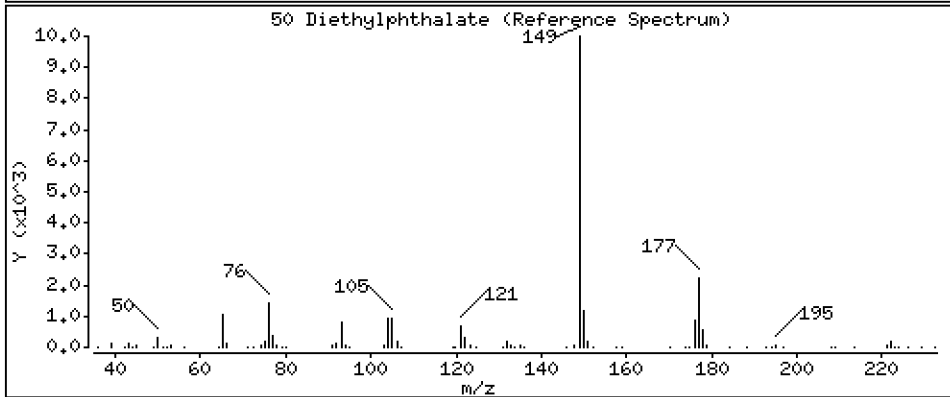
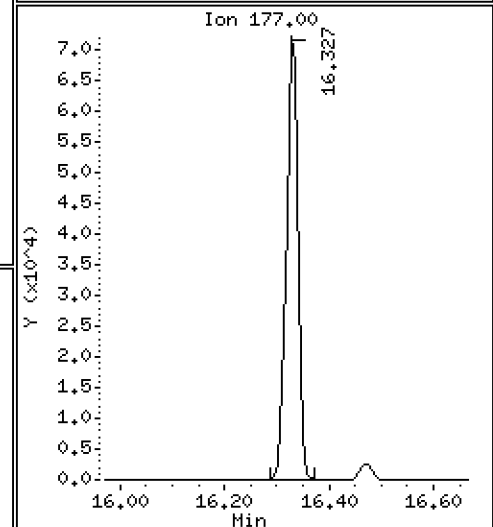
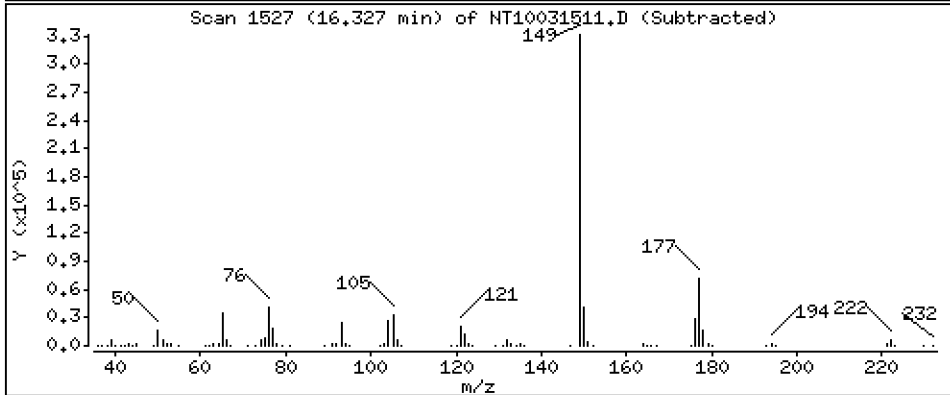
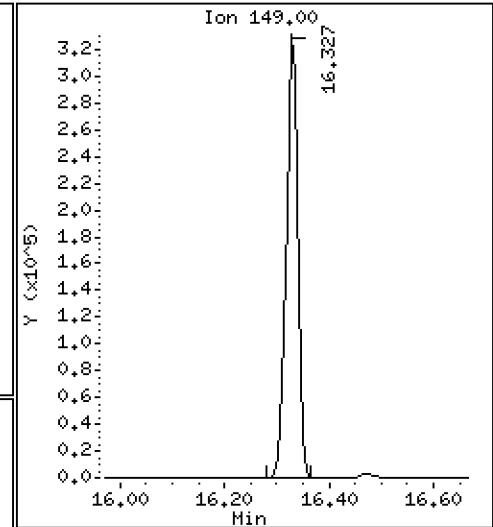
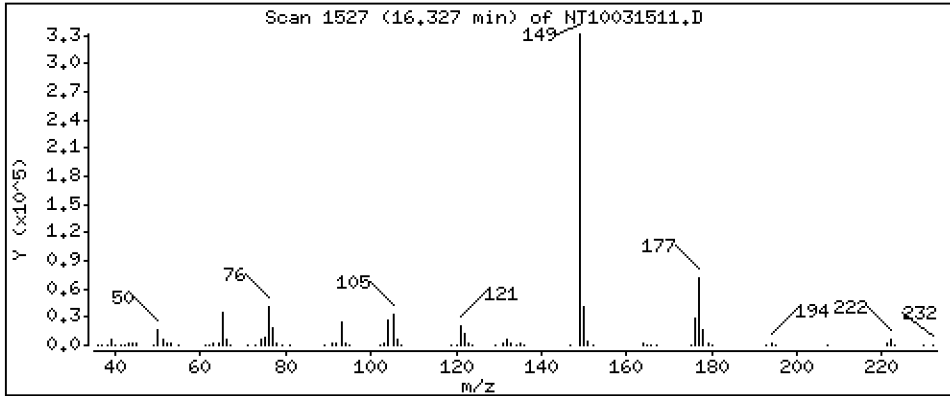
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 5,209 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

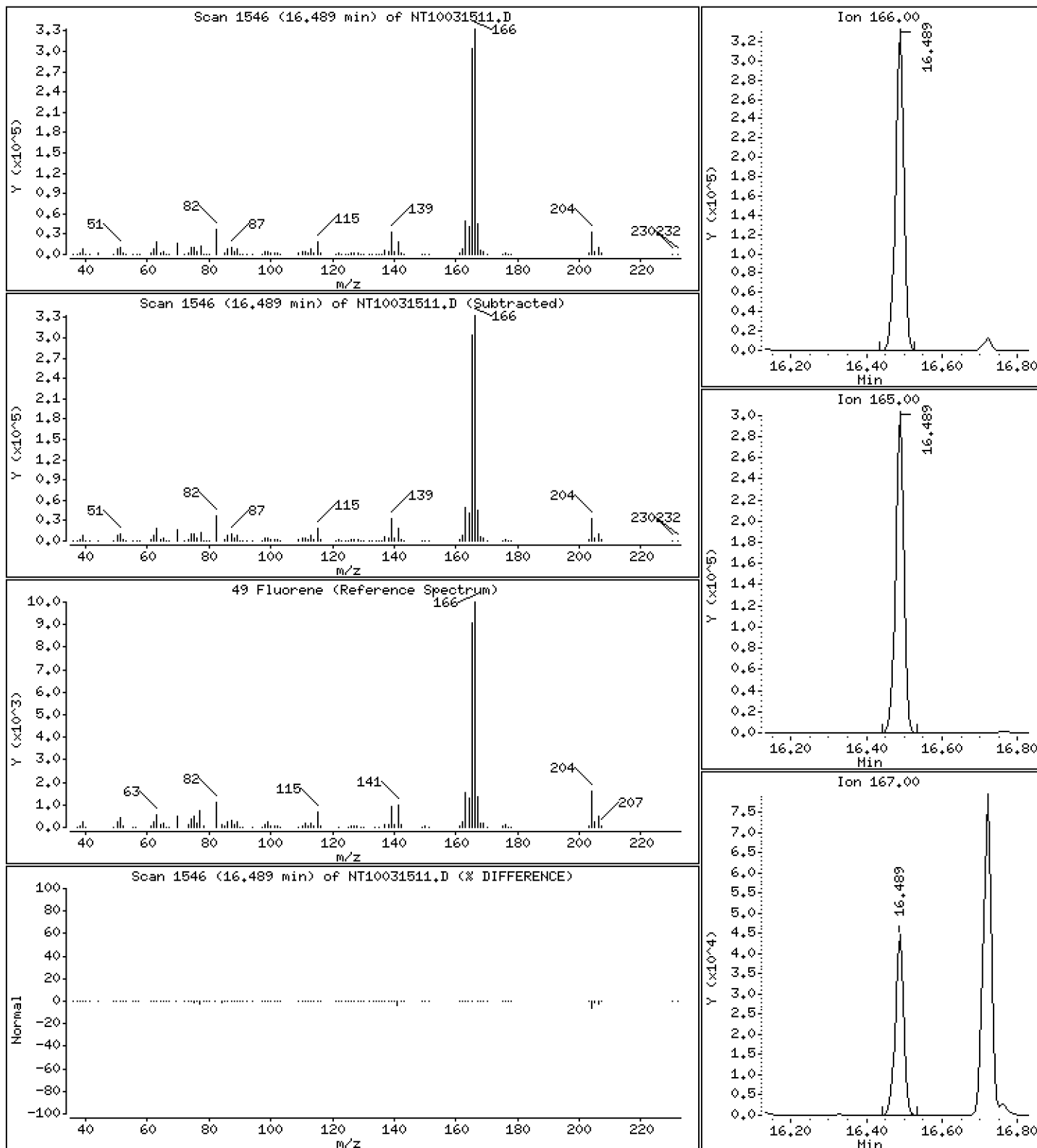
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 4,708 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

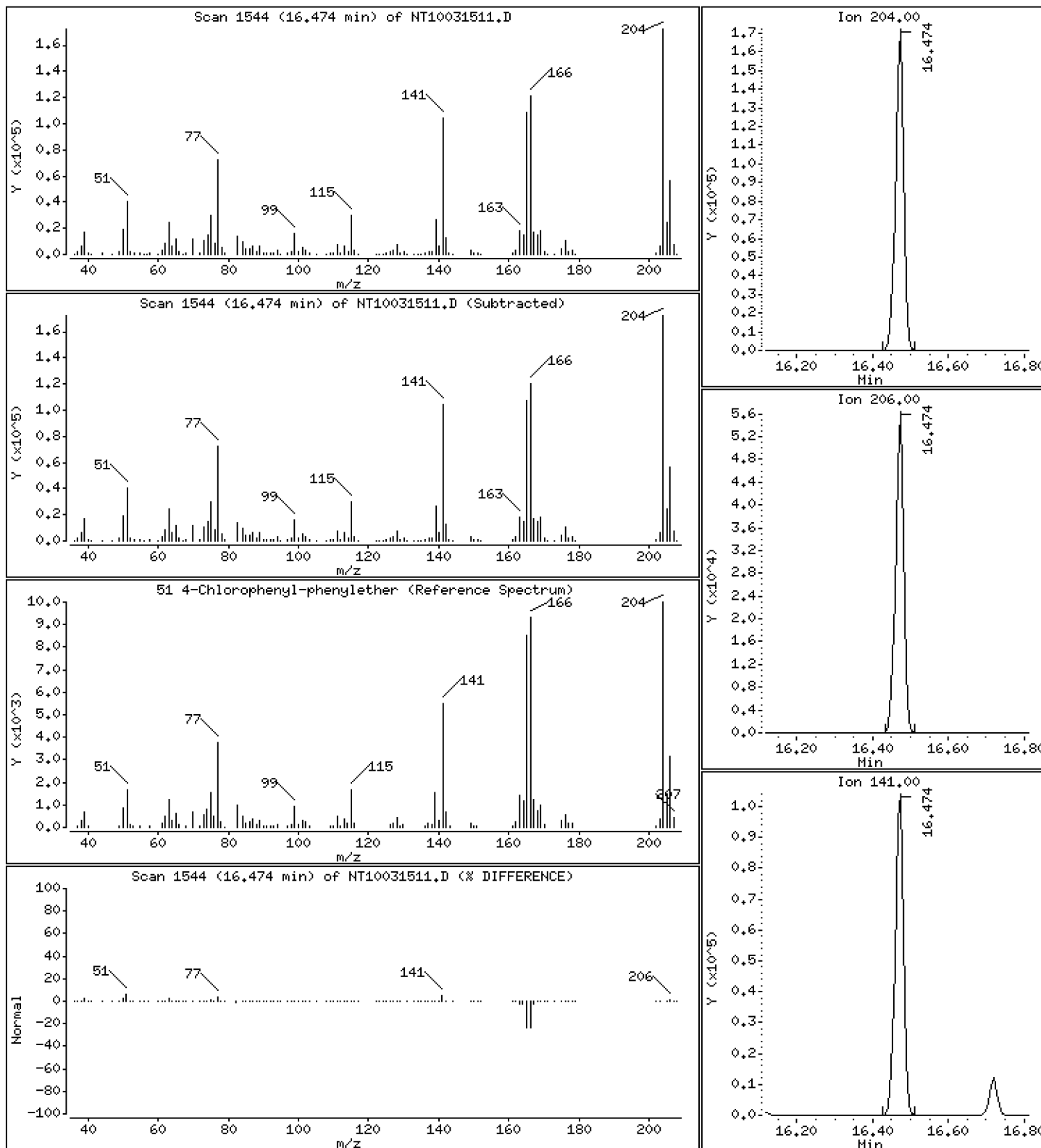
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 4,993 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

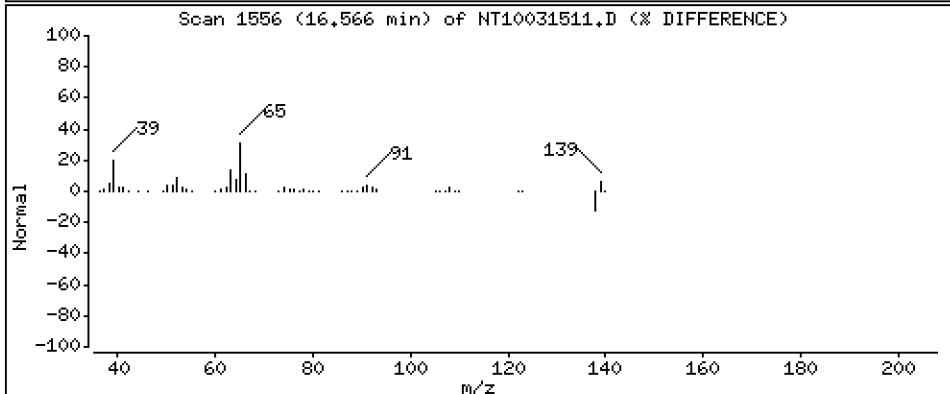
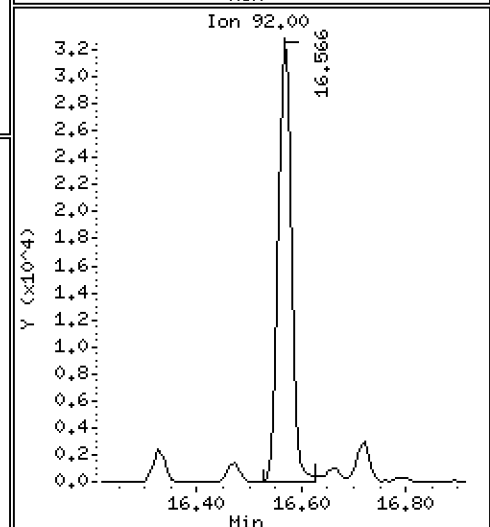
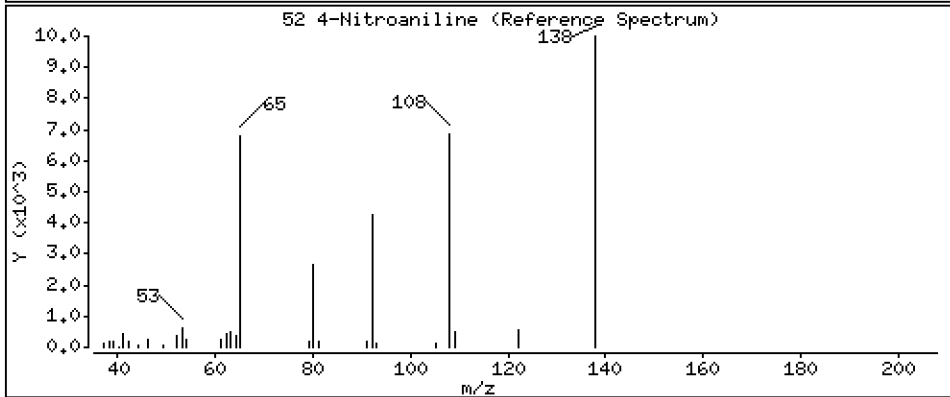
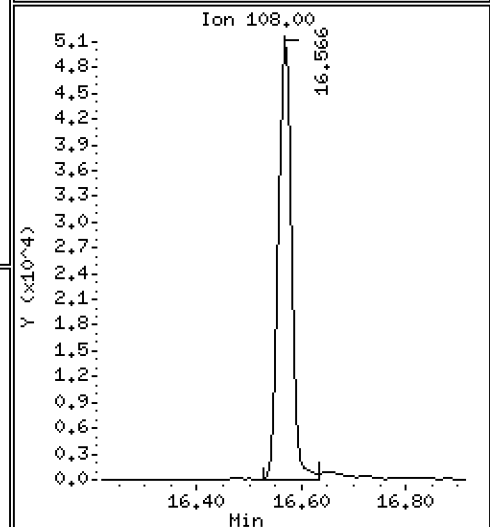
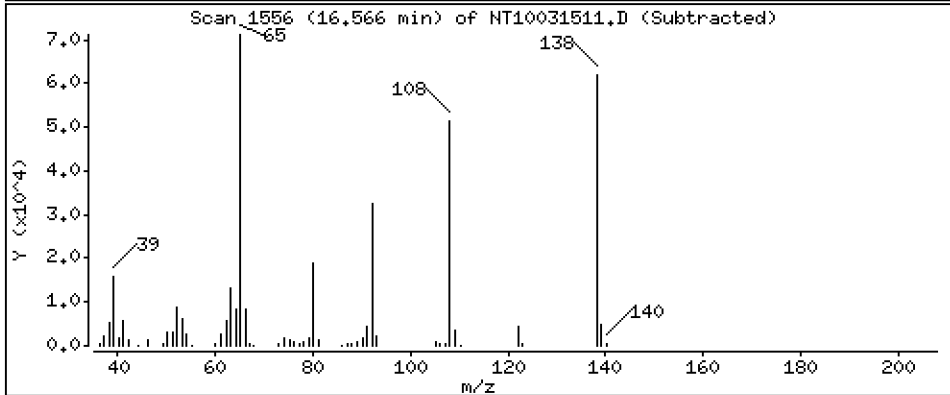
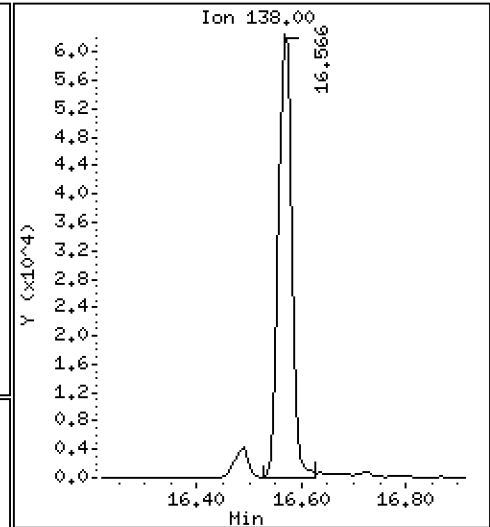
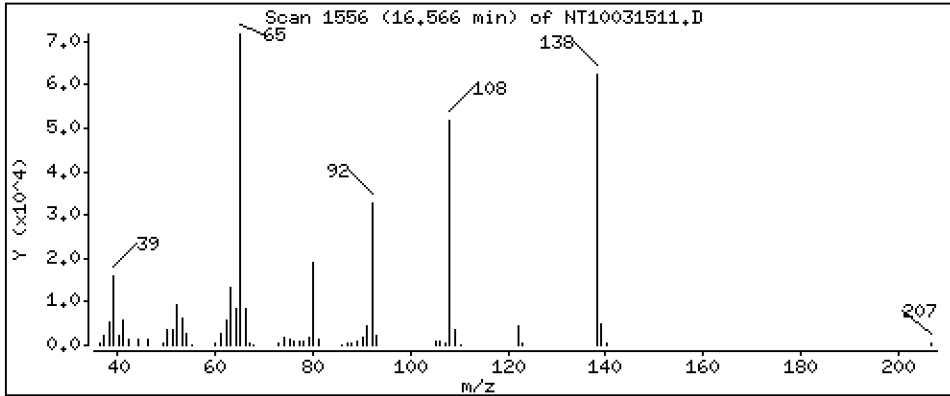
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

52 4-Nitroaniline

Concentration: 4,925 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

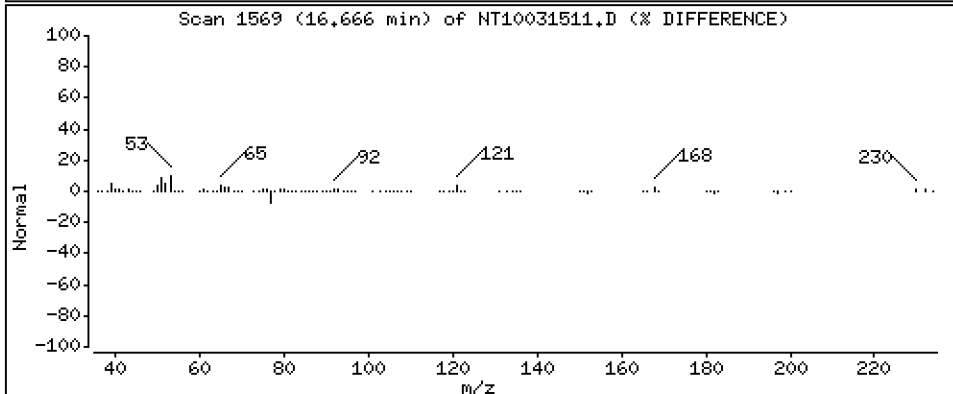
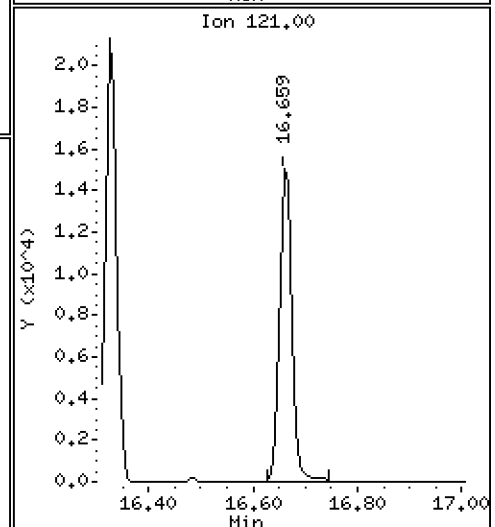
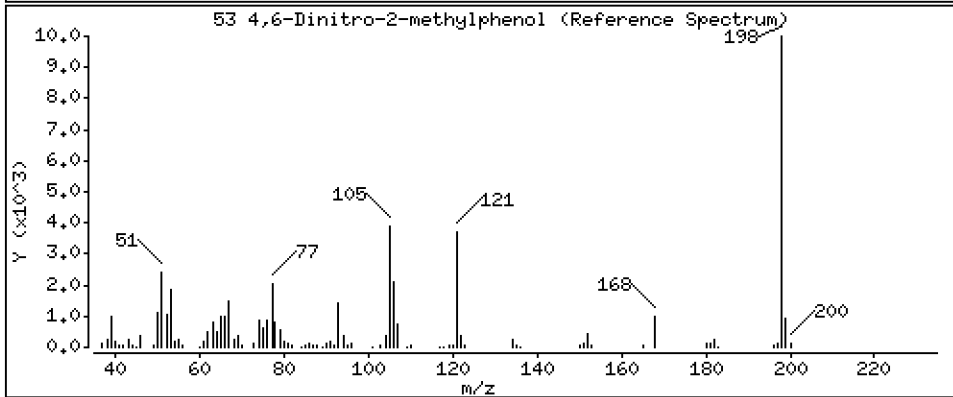
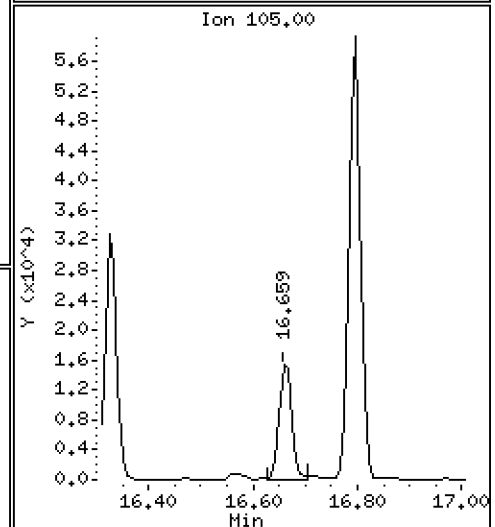
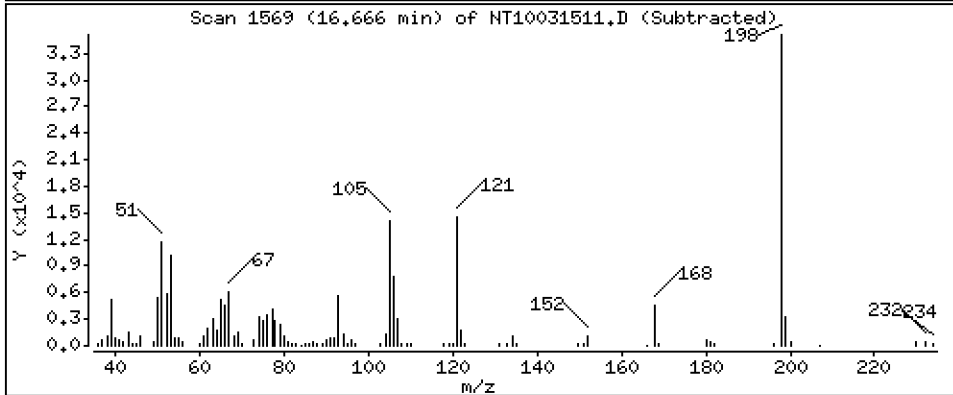
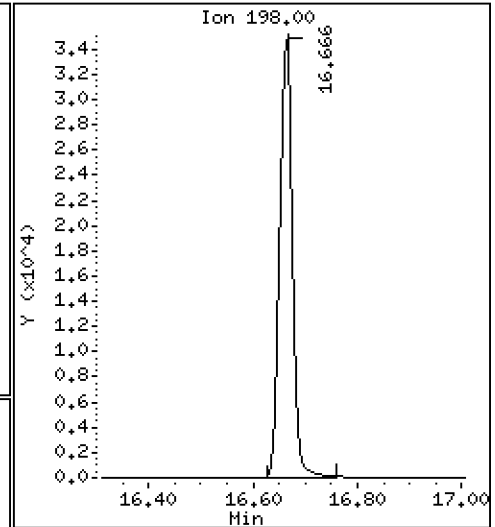
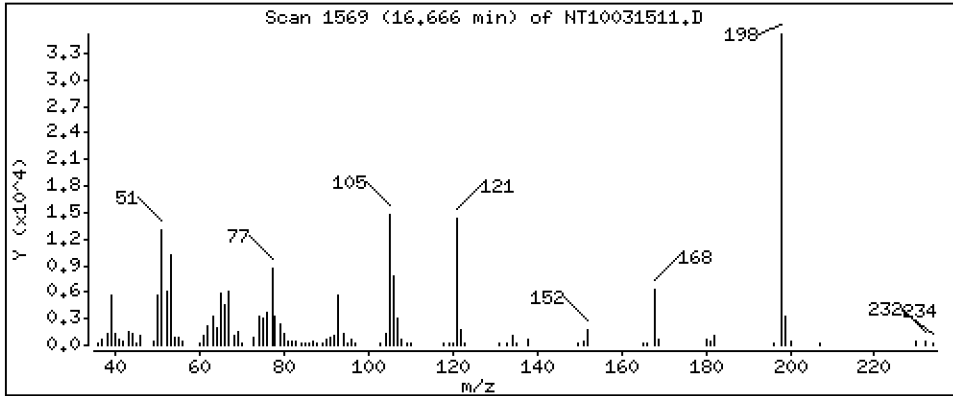
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

53 4,6-Dinitro-2-methylphenol

Concentration: 3.515 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

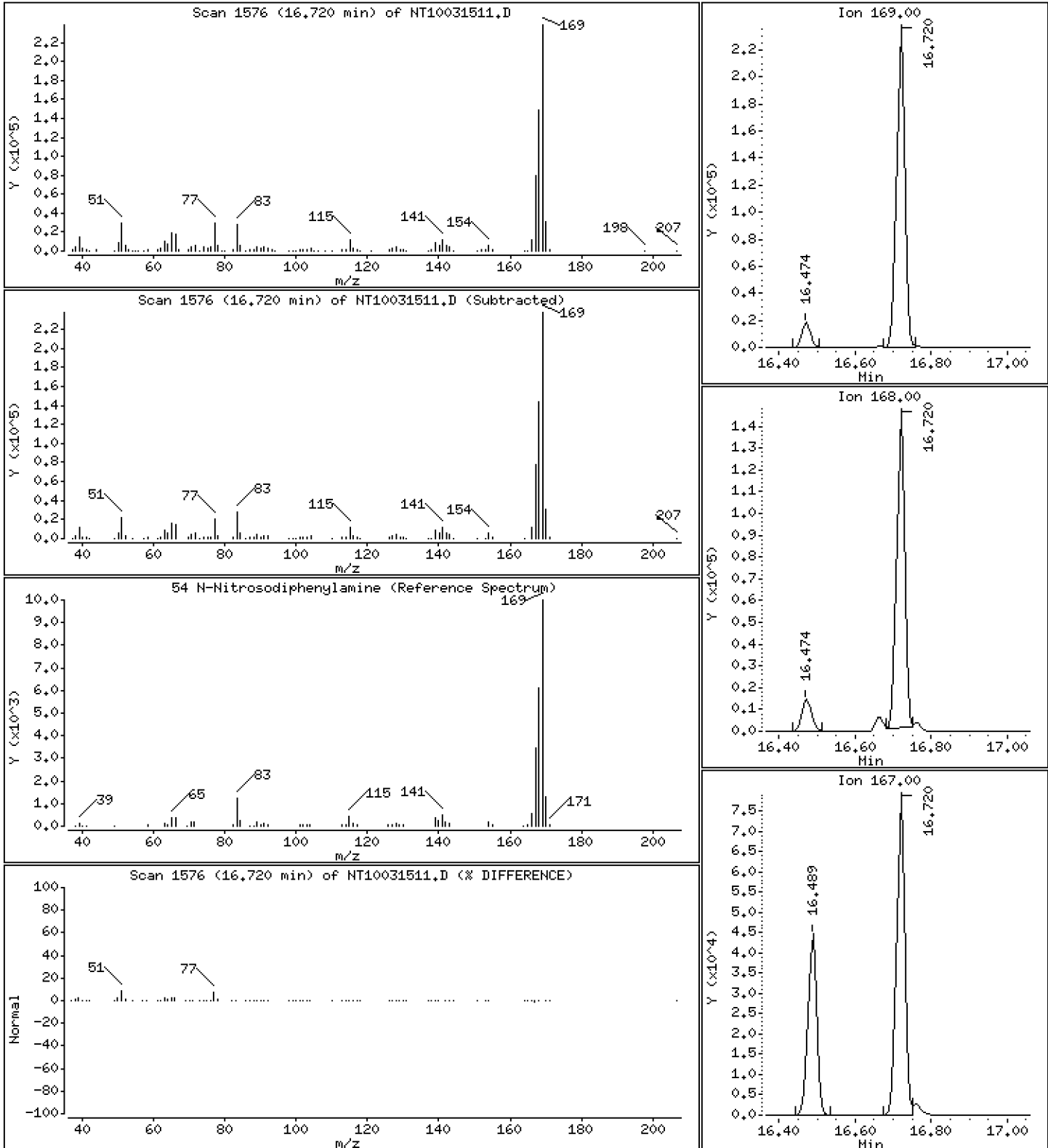
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

54 N-Nitrosodiphenylamine

Concentration: 4,802 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

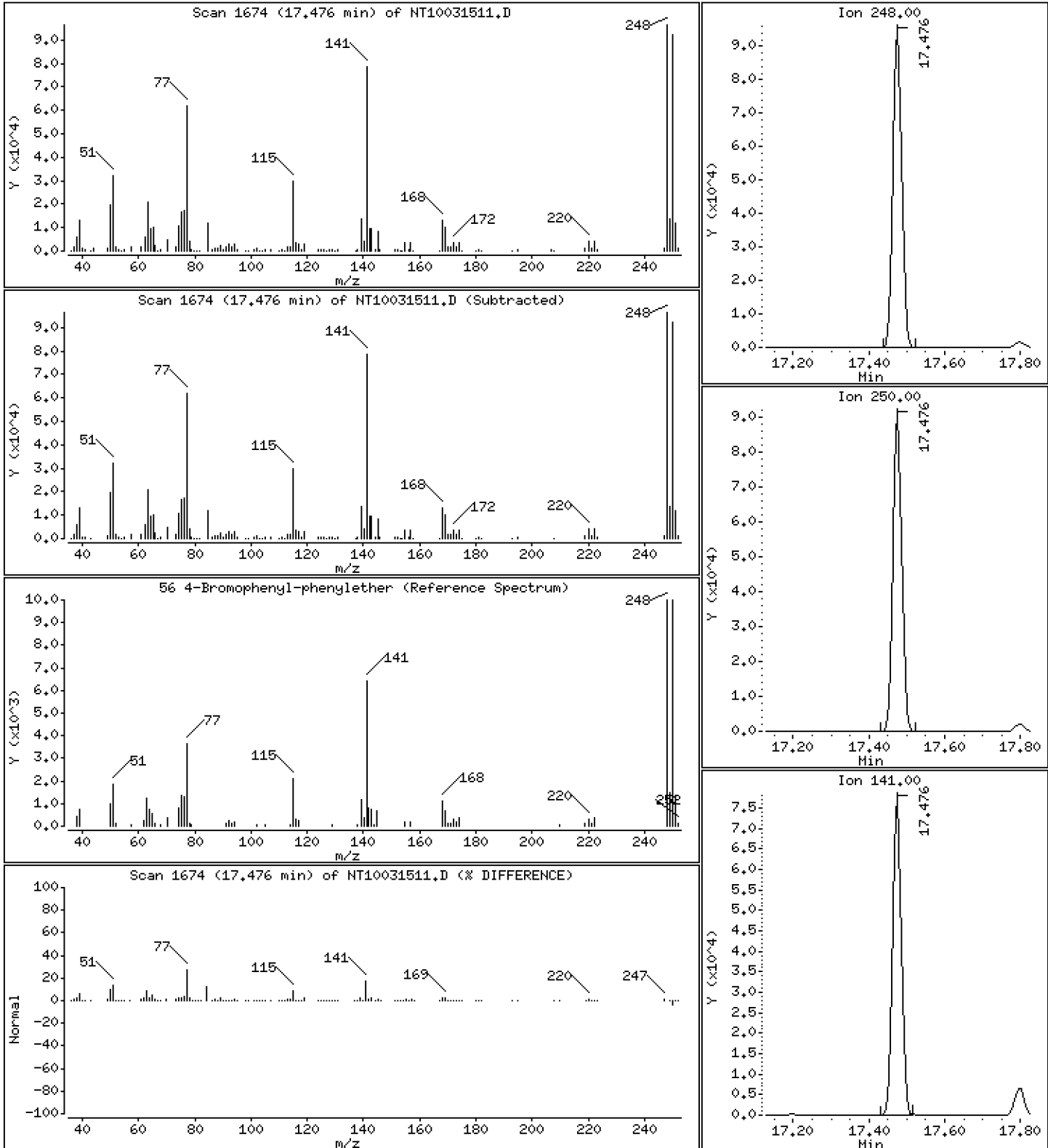
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 5,060 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

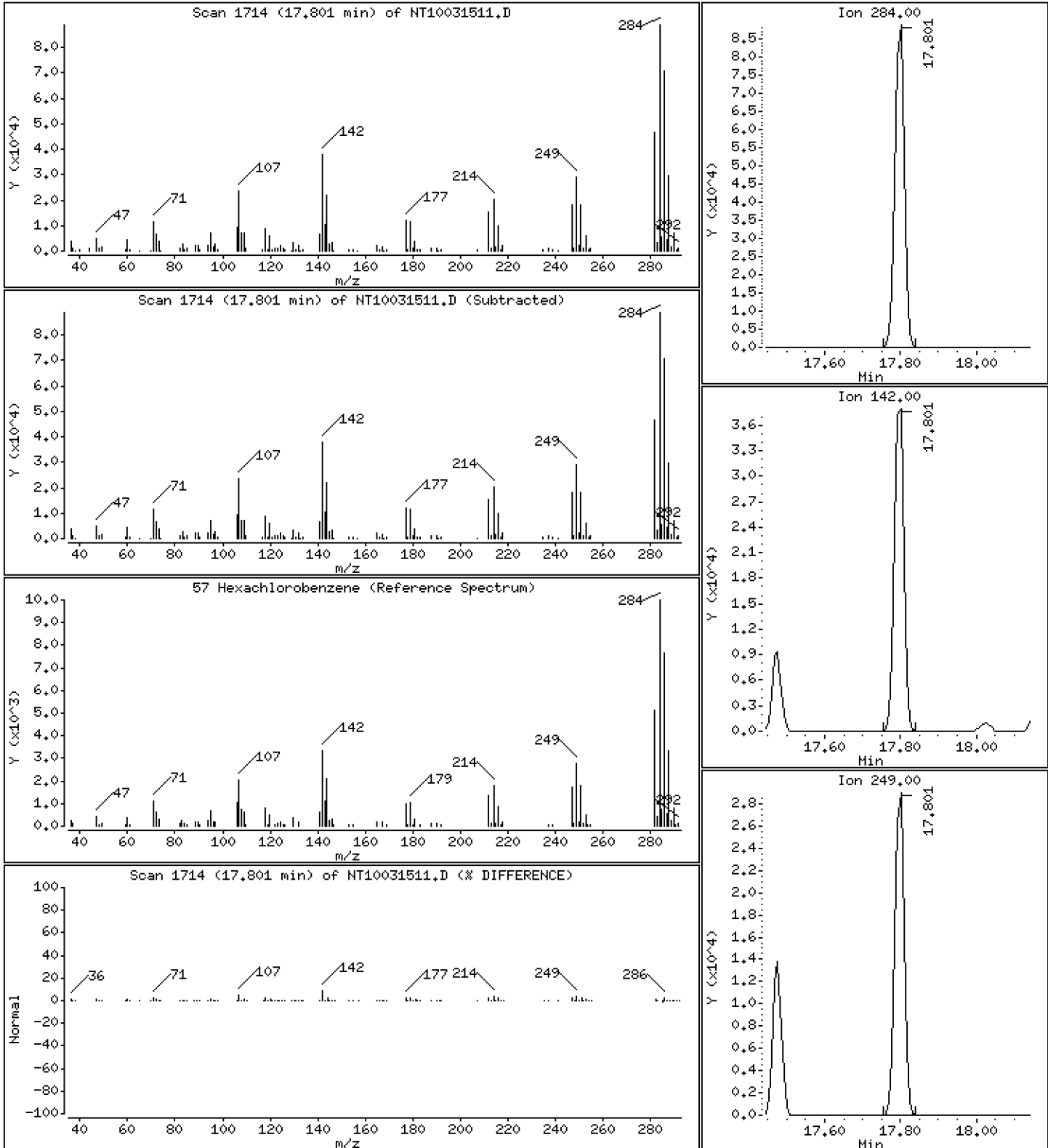
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

57 Hexachlorobenzene

Concentration: 4,596 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

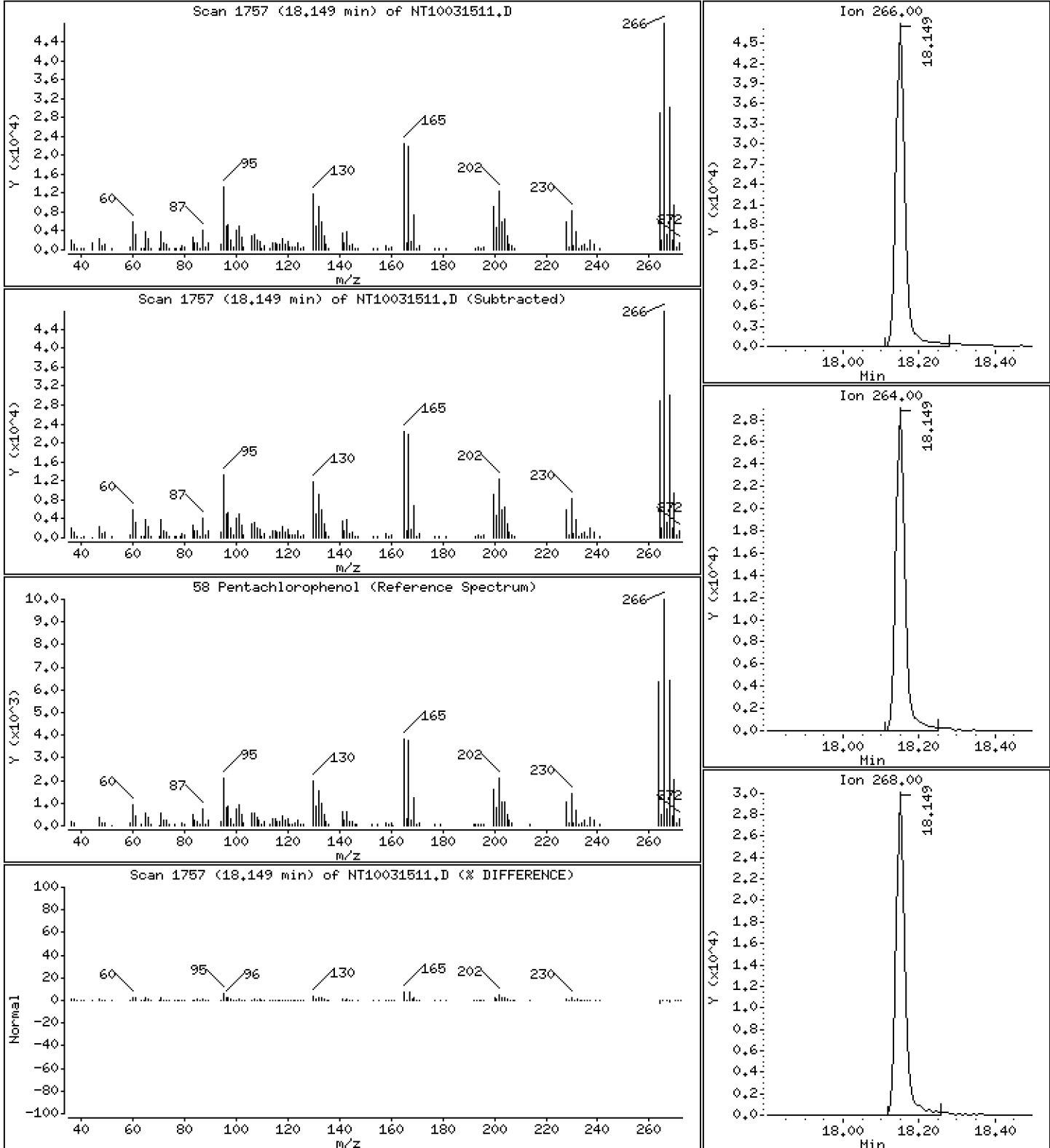
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 4,057 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

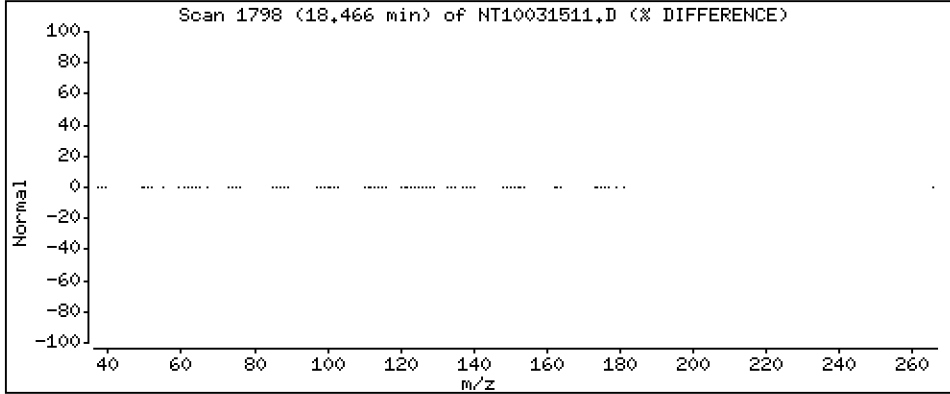
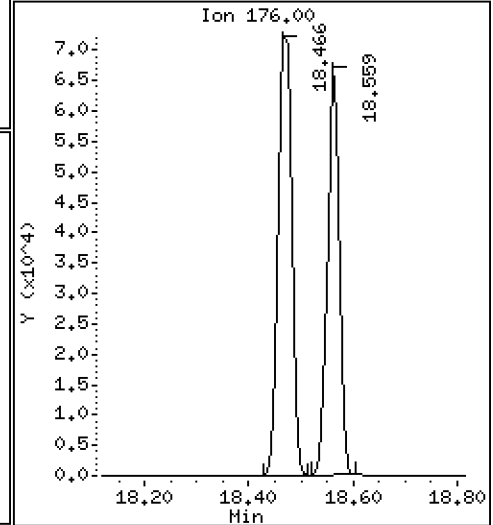
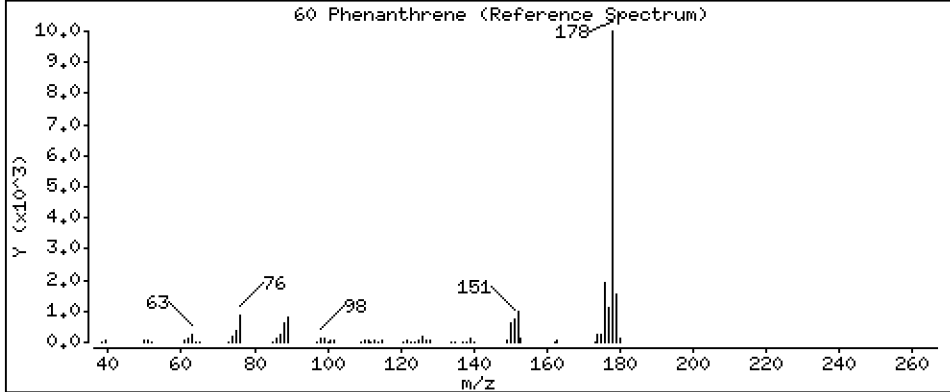
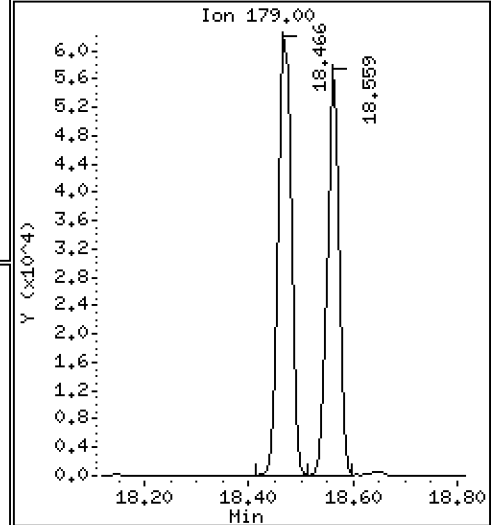
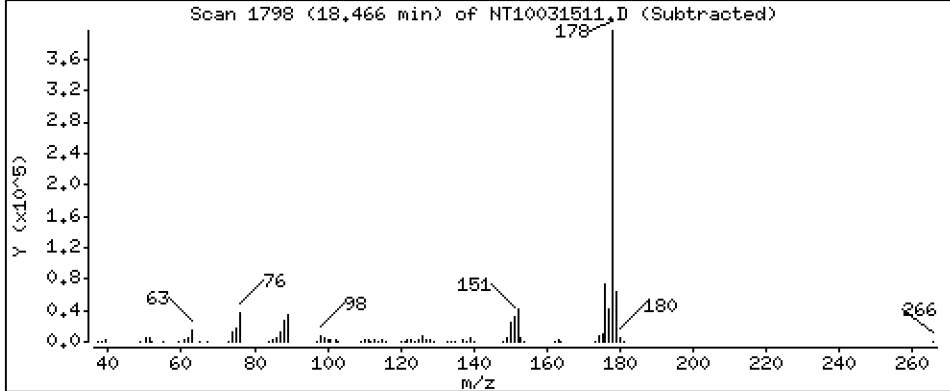
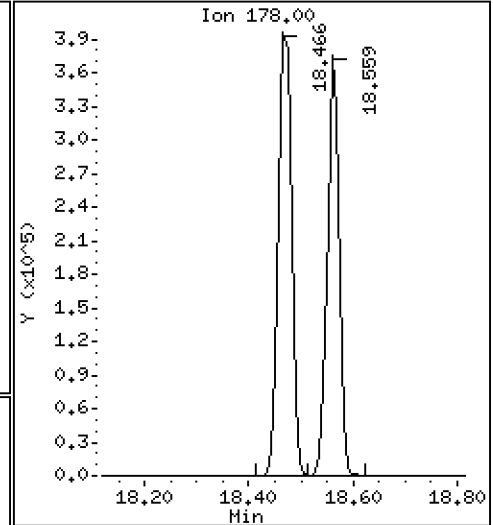
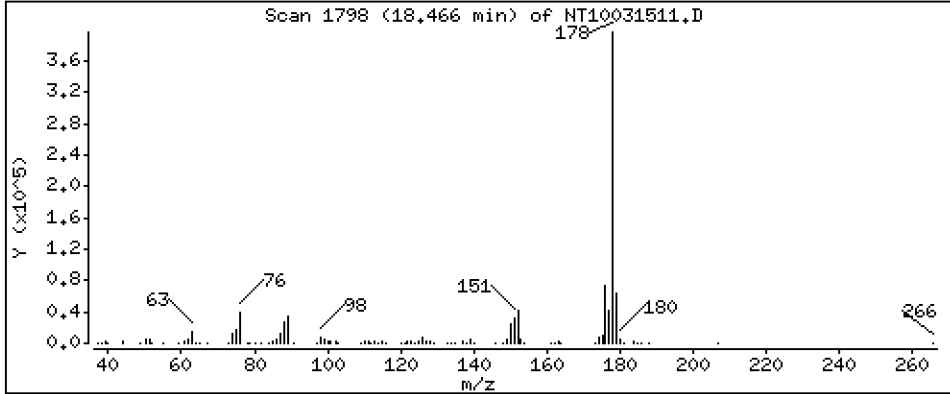
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 4,602 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

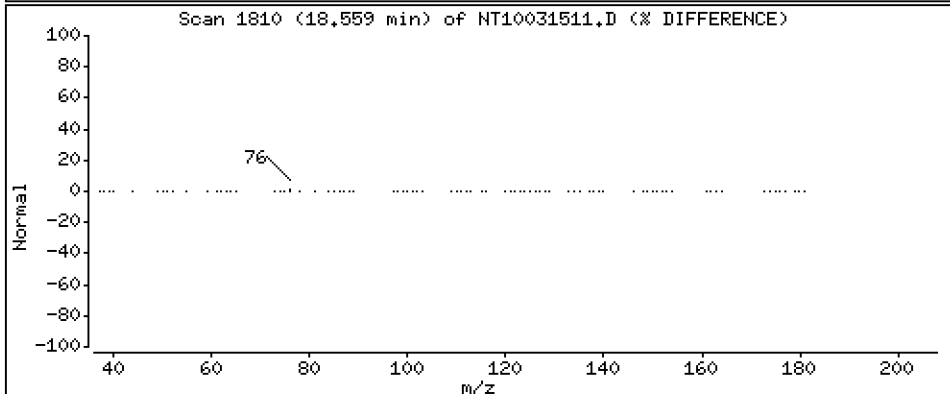
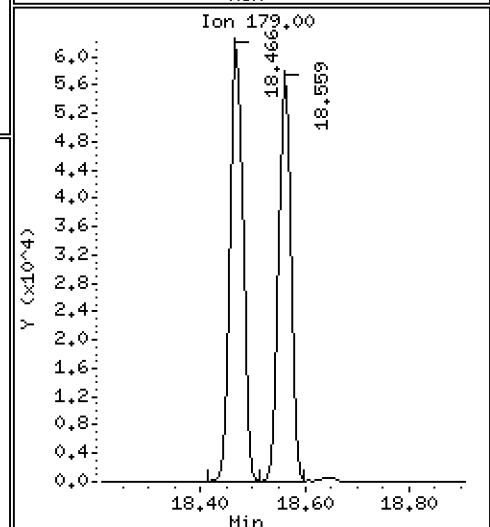
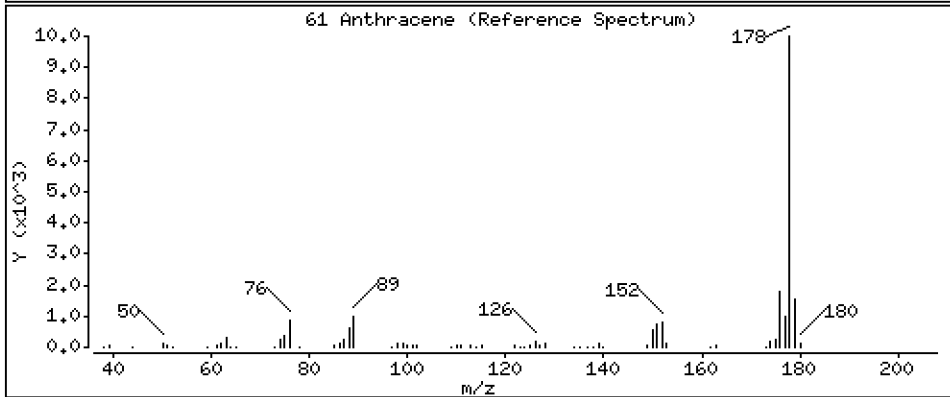
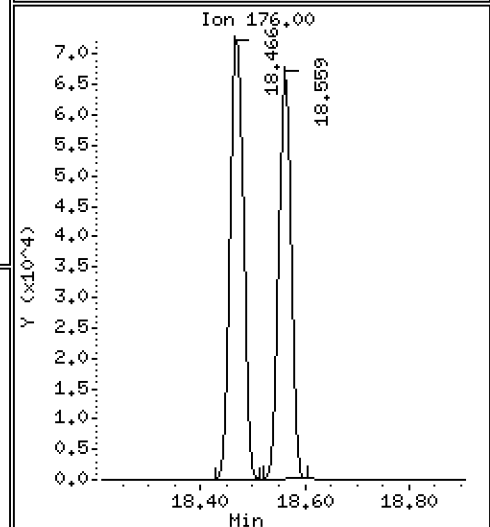
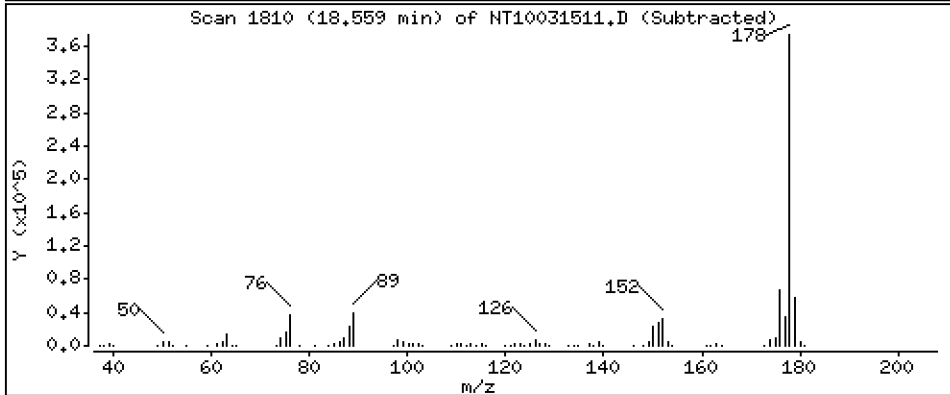
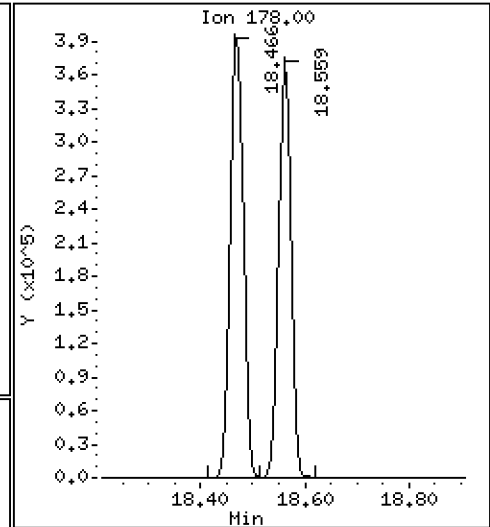
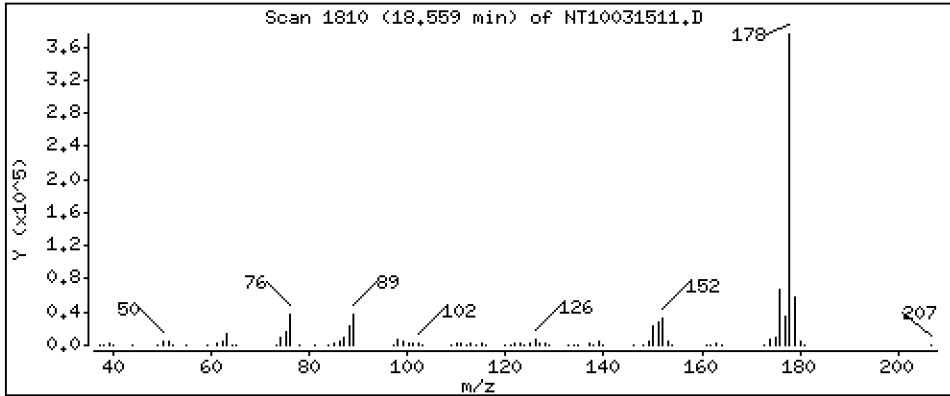
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 4,167 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

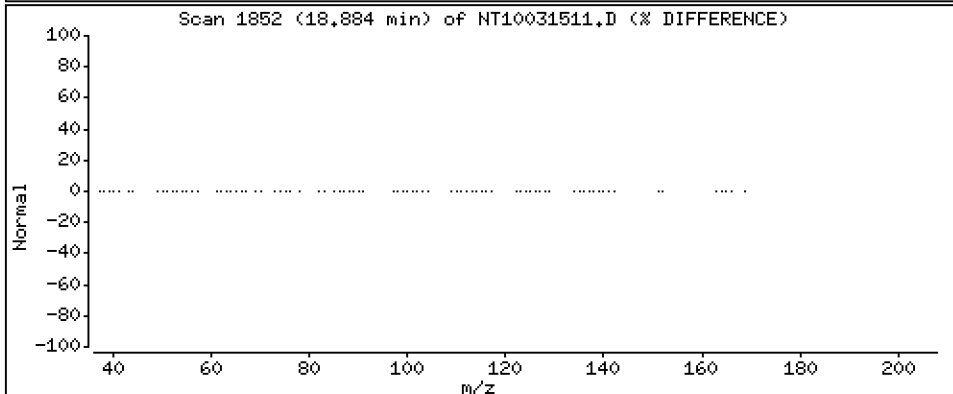
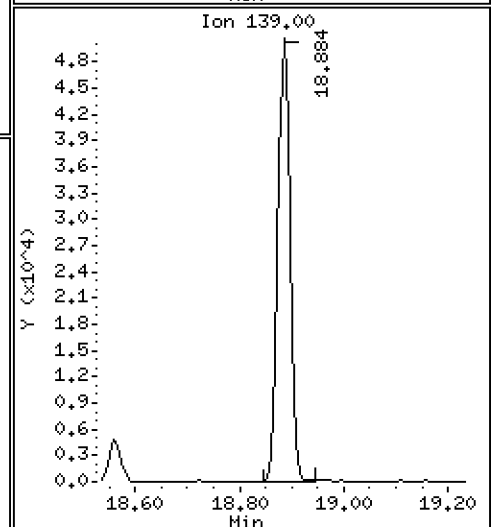
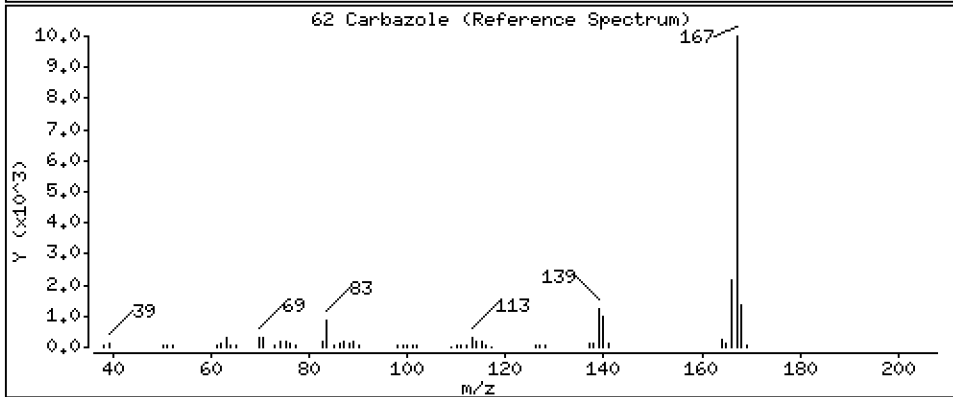
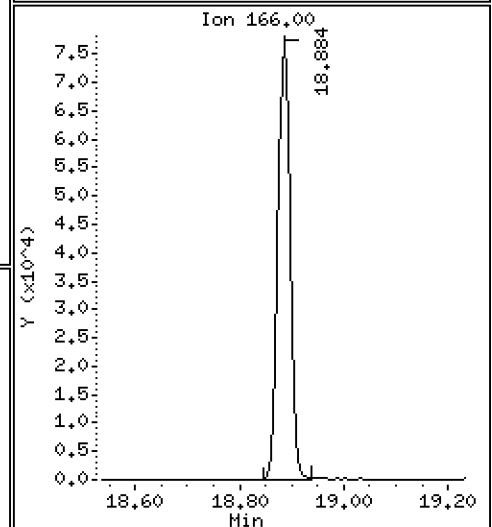
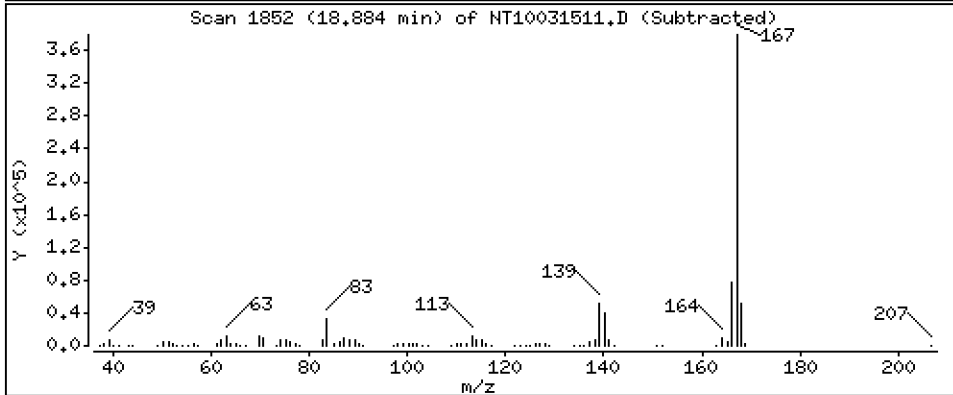
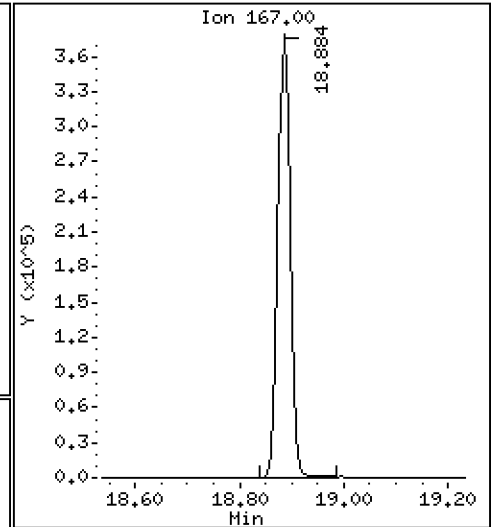
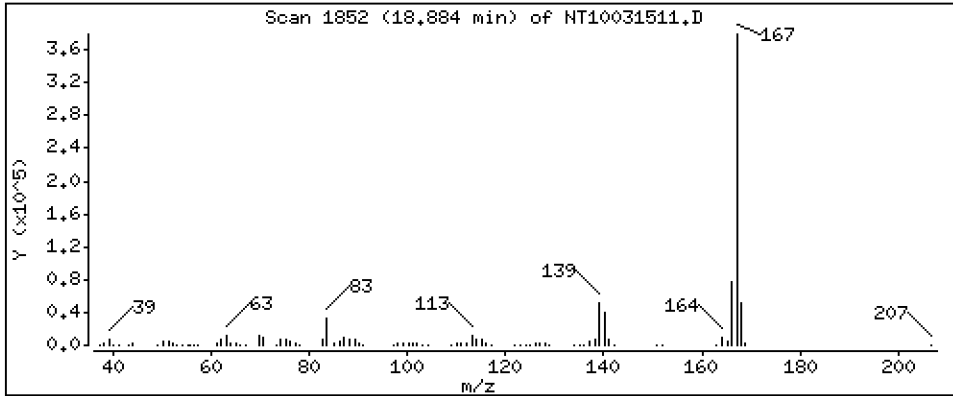
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 4,730 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

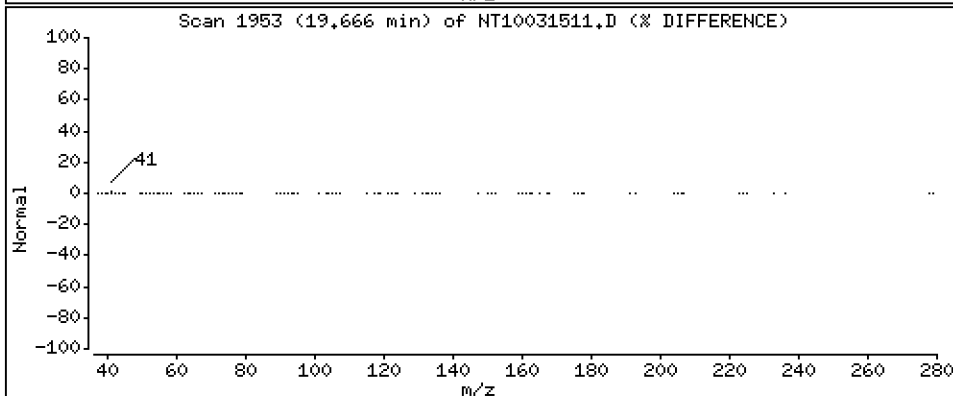
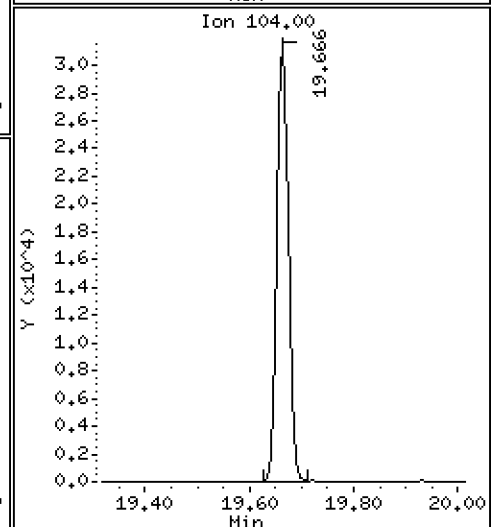
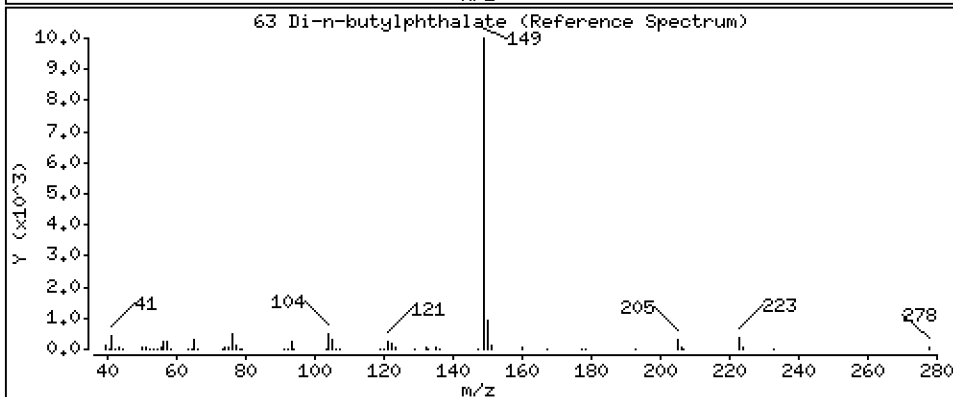
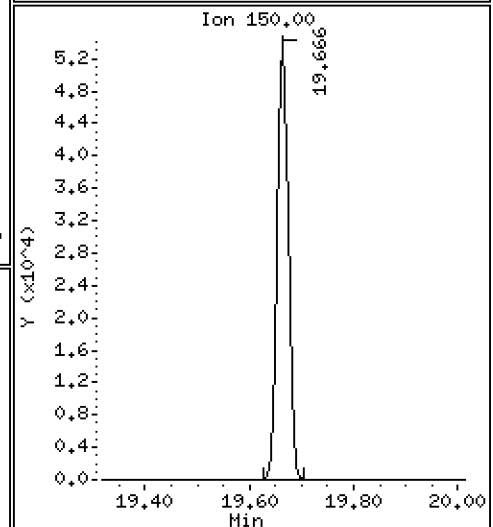
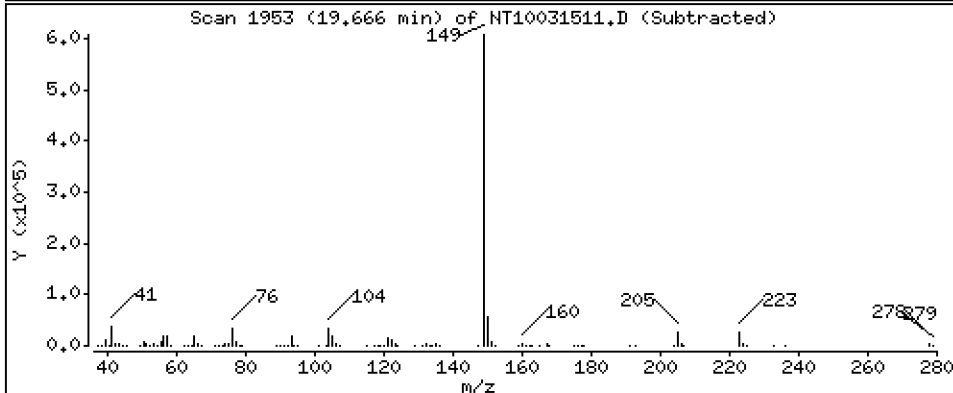
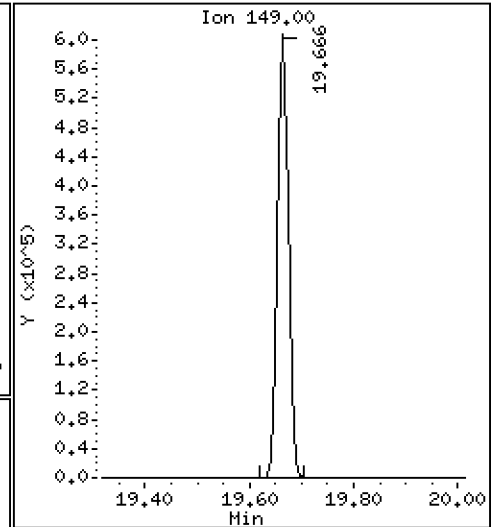
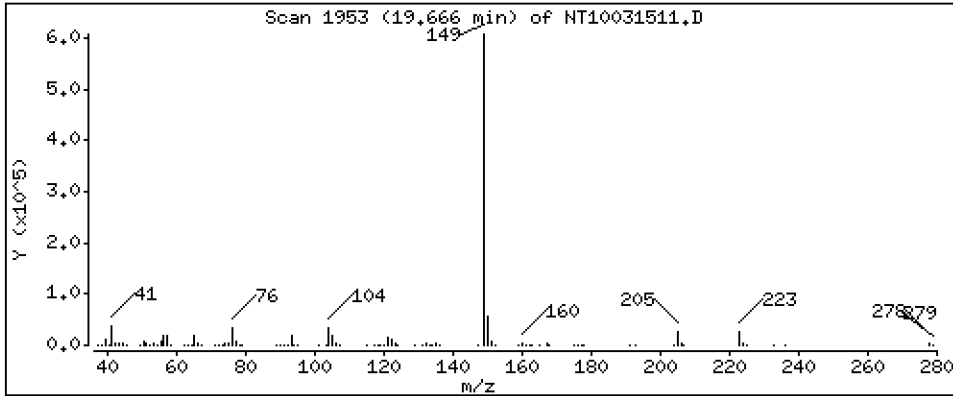
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 4,967 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

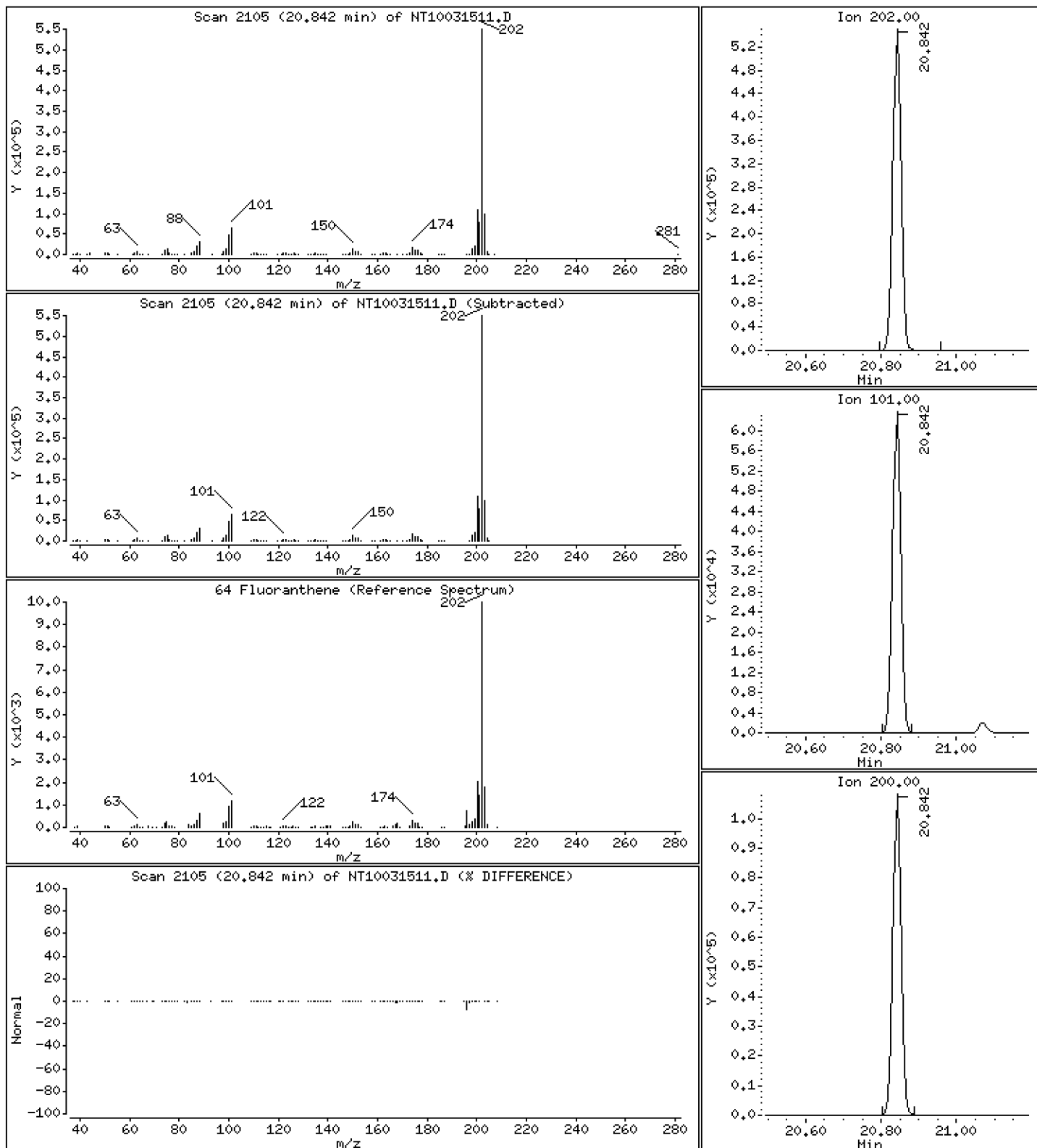
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 4,472 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

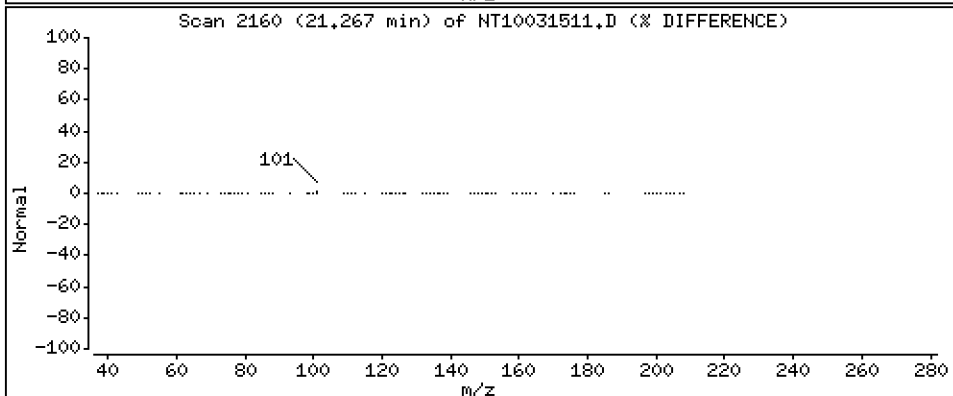
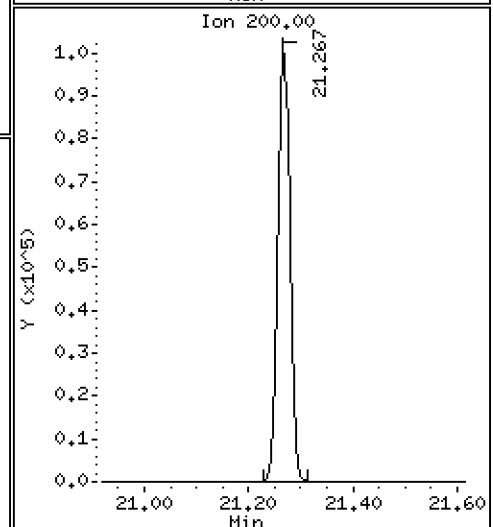
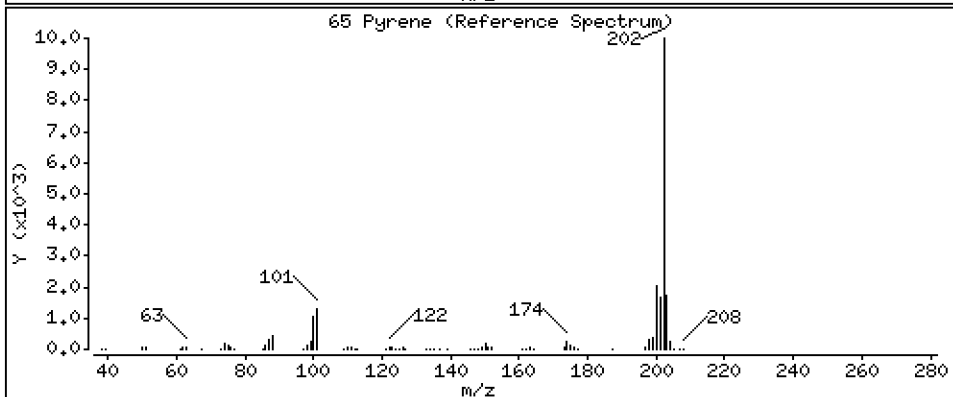
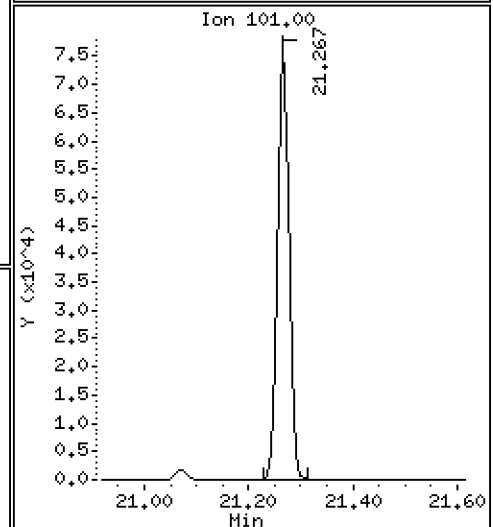
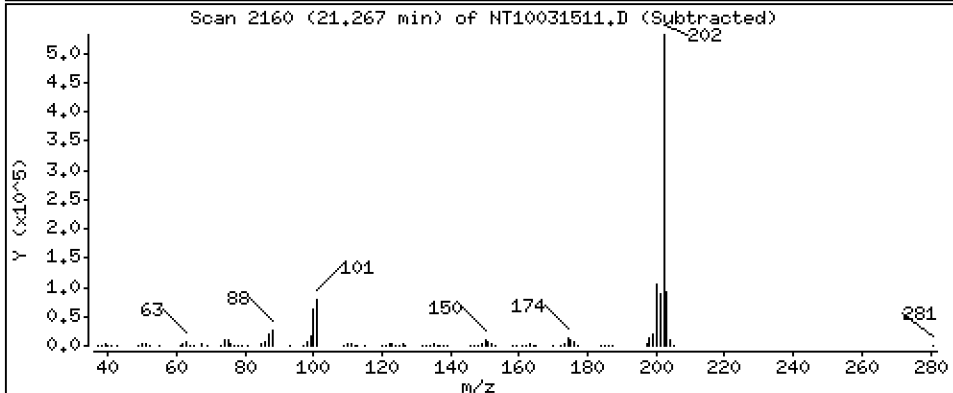
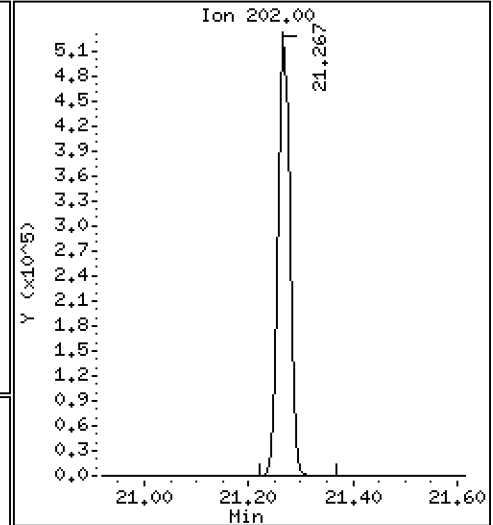
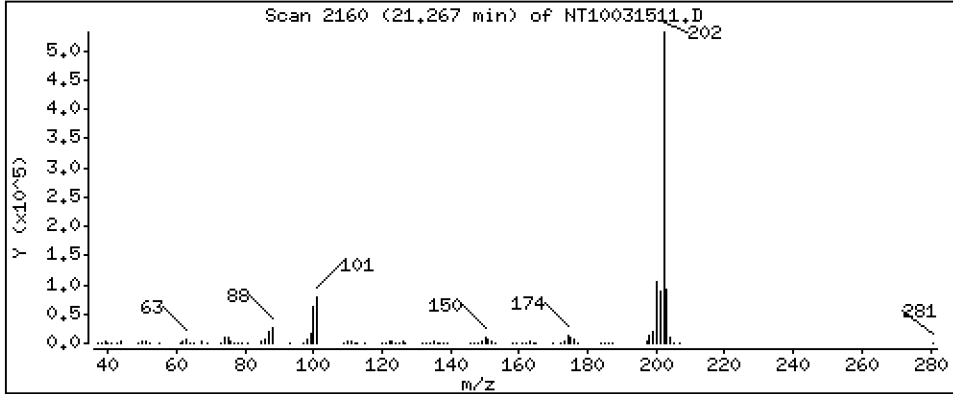
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 4,339 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

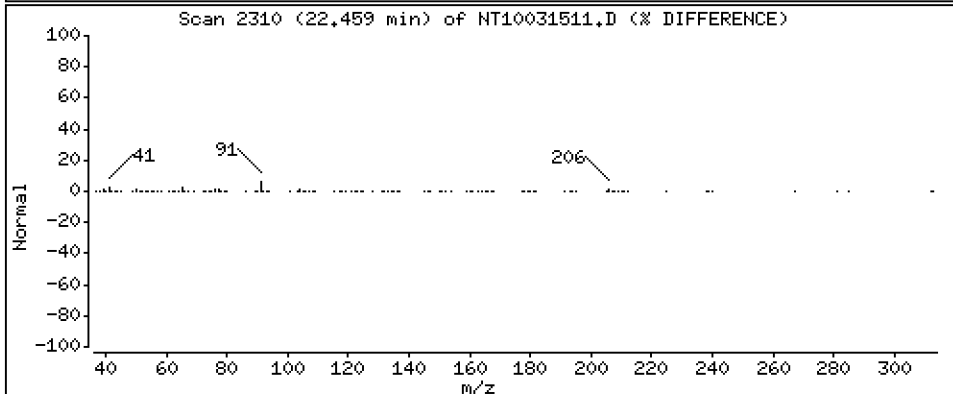
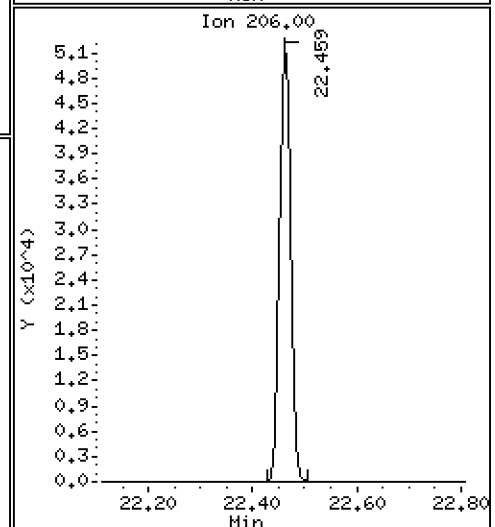
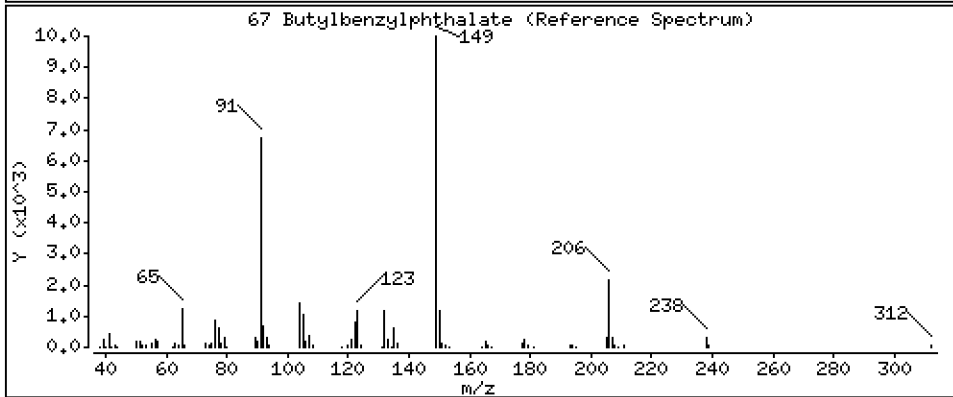
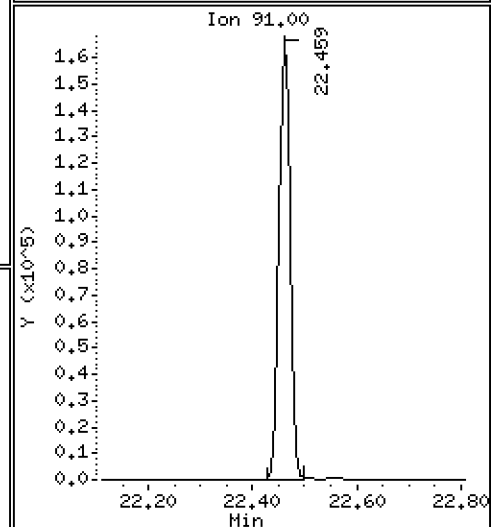
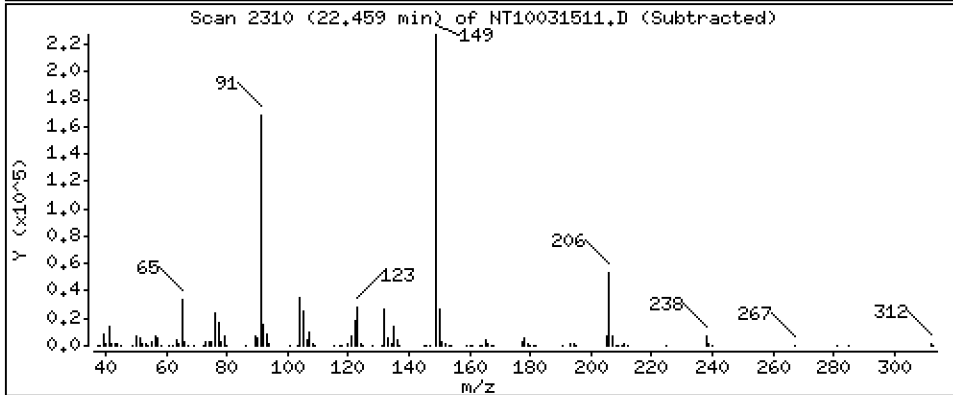
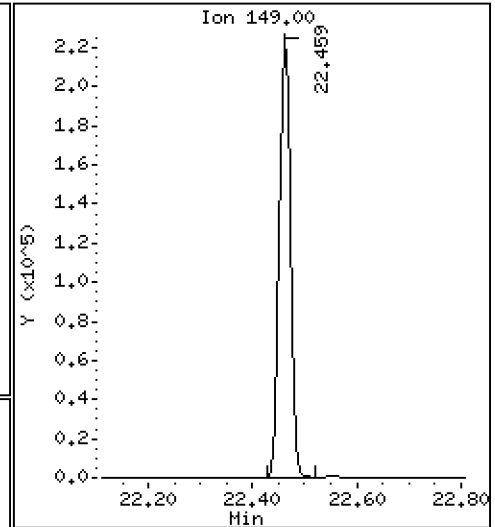
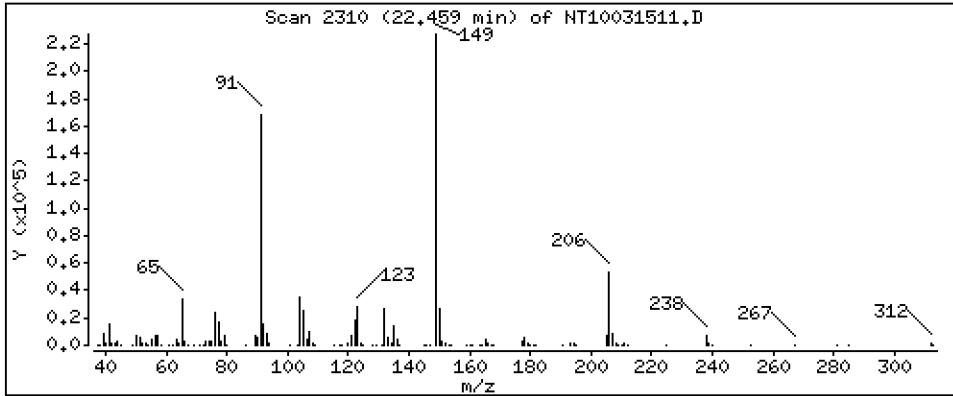
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 4,834 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

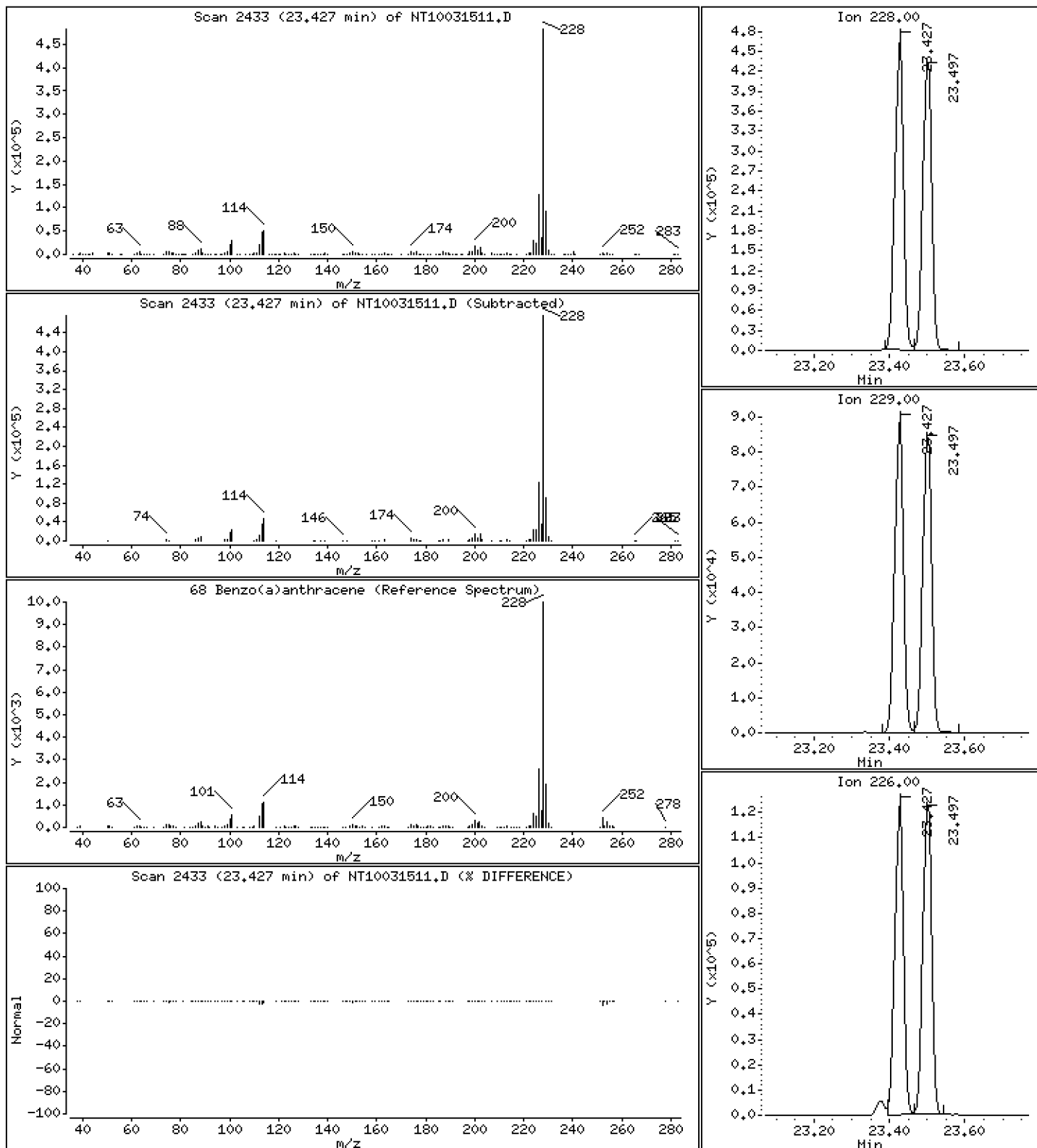
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 4,647 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

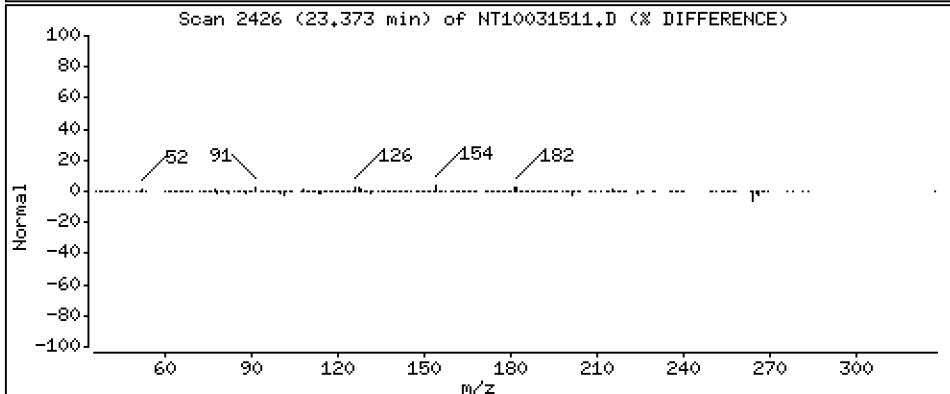
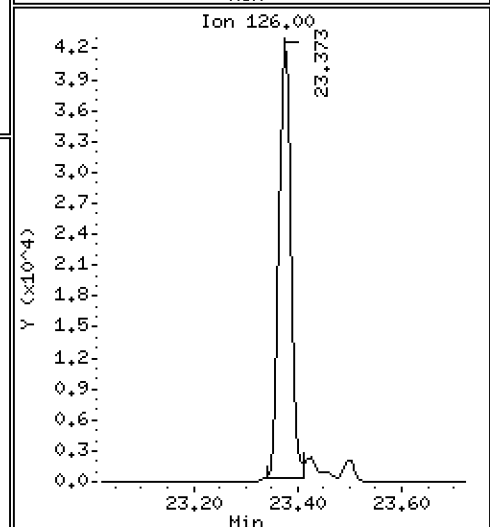
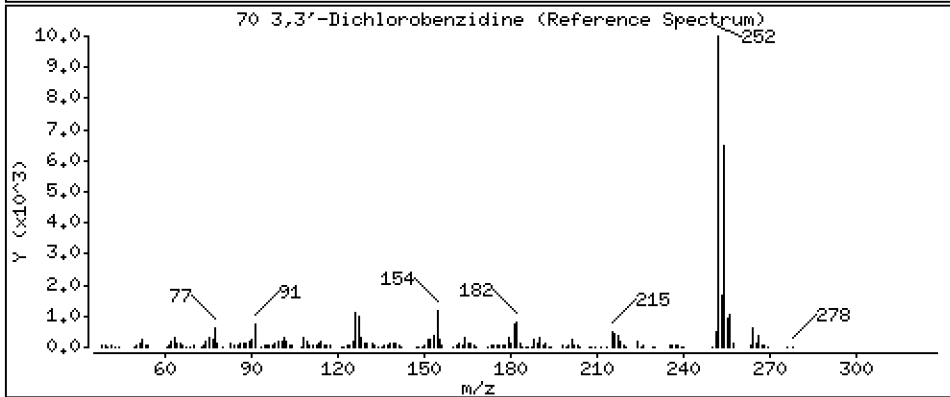
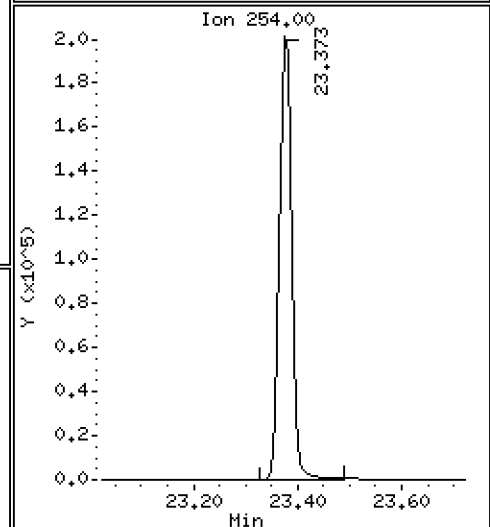
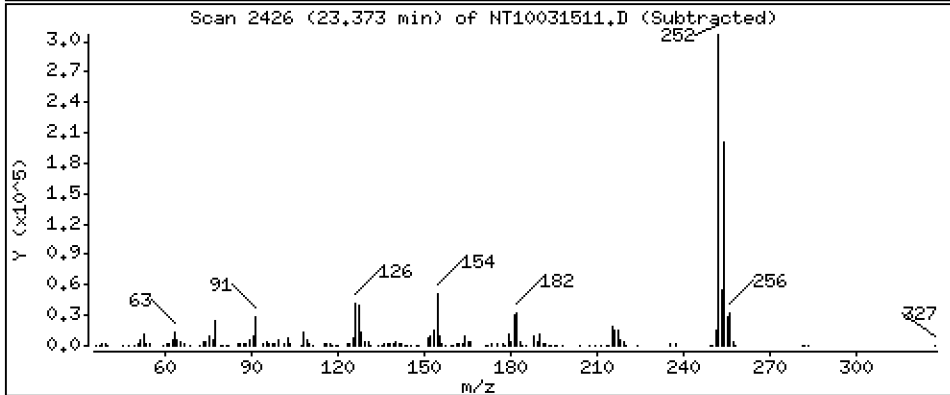
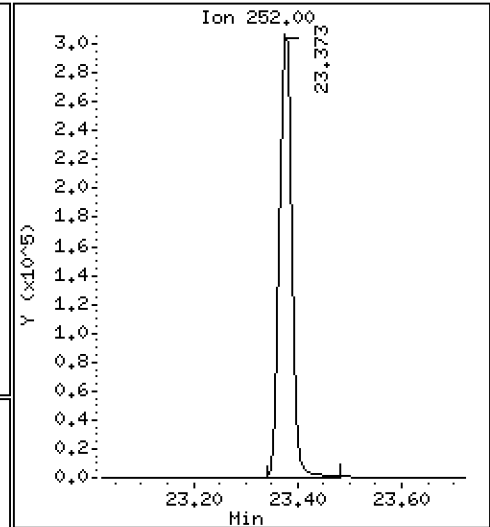
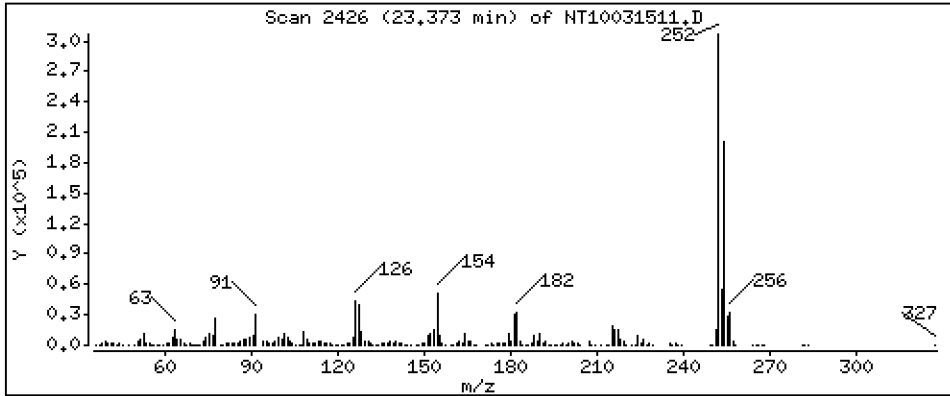
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

70 3,3'-Dichlorobenzidine

Concentration: 9,817 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

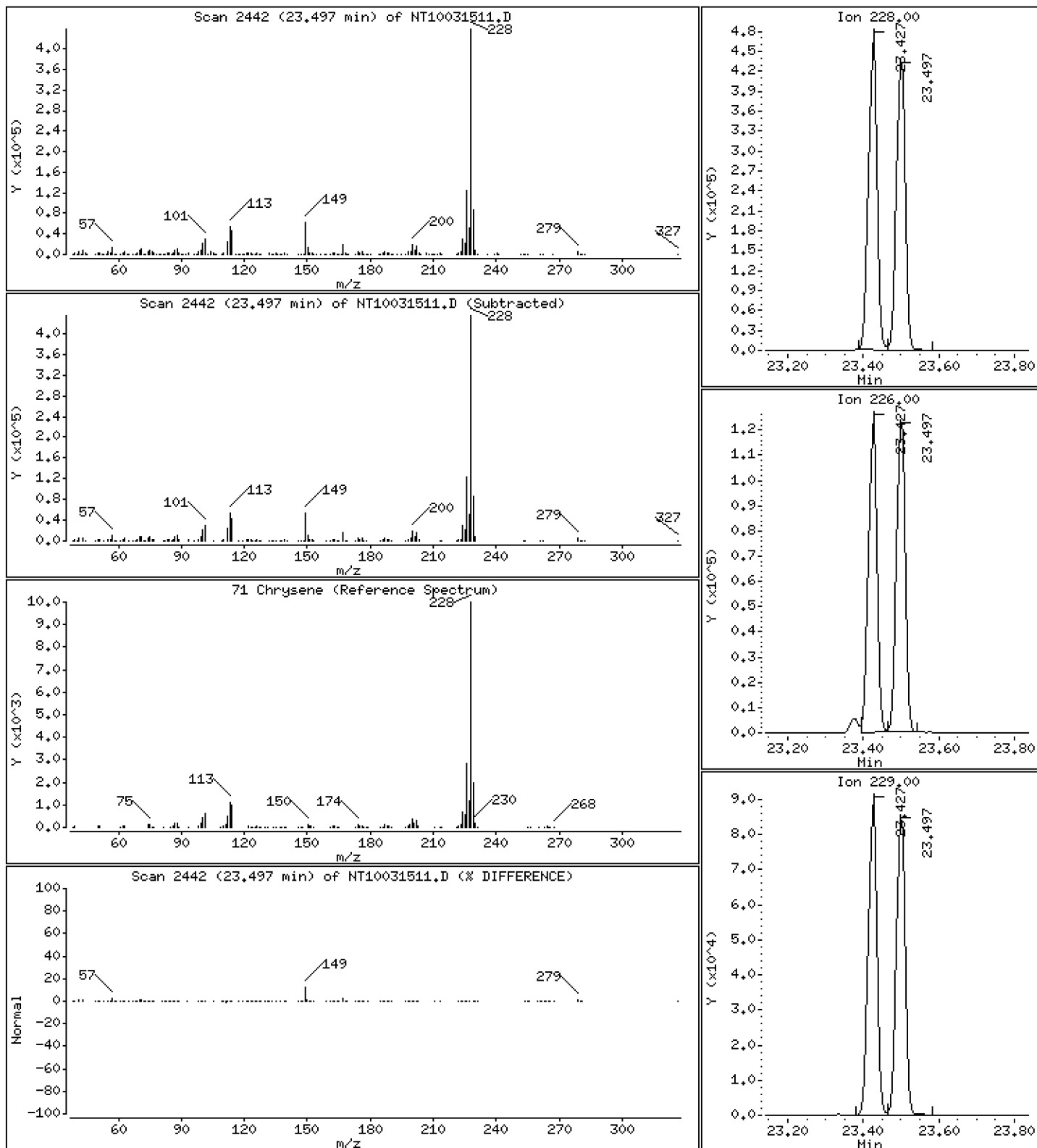
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 4,510 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

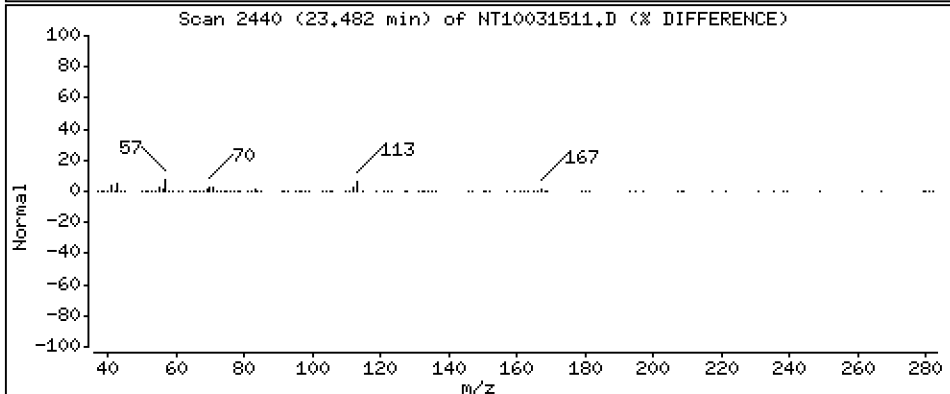
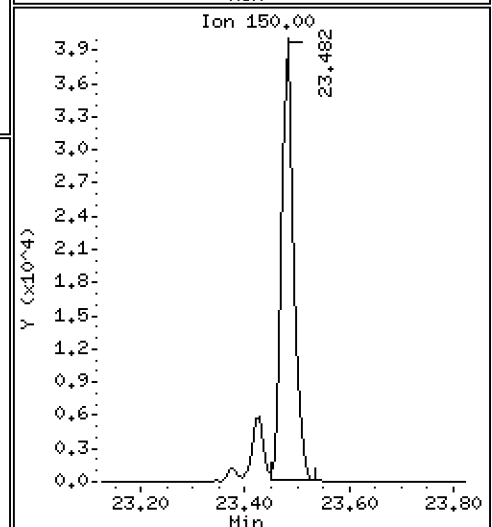
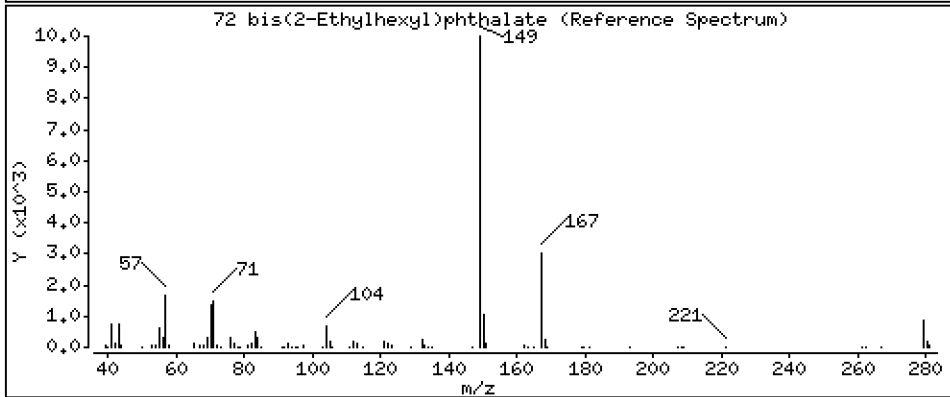
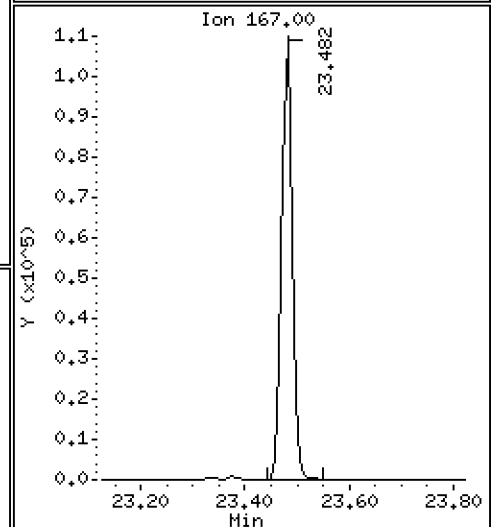
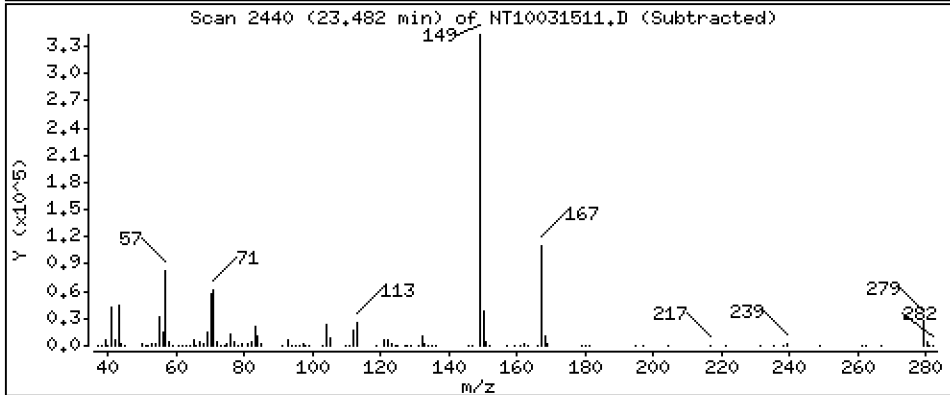
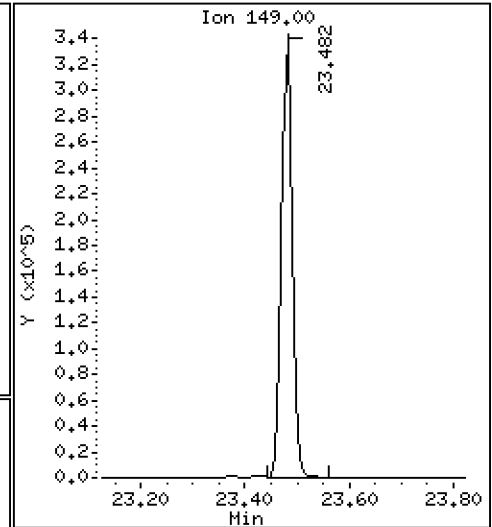
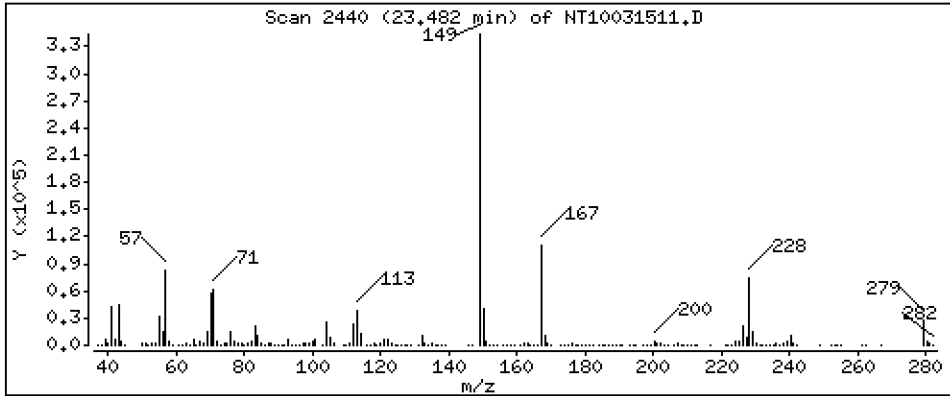
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 4,680 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

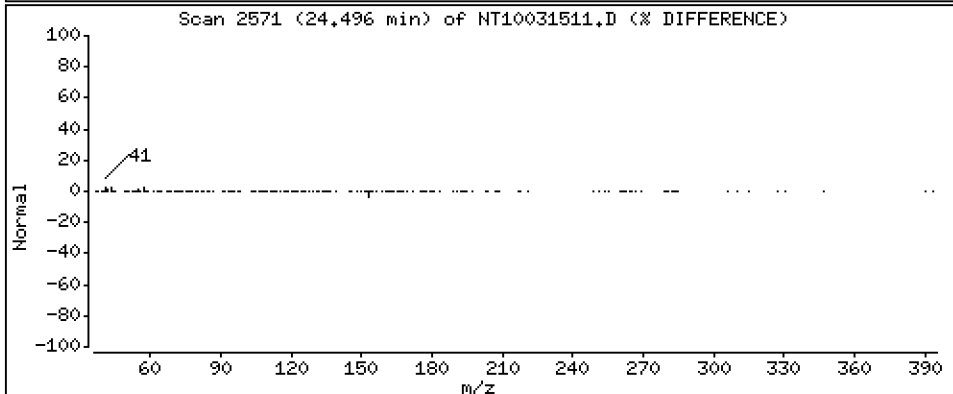
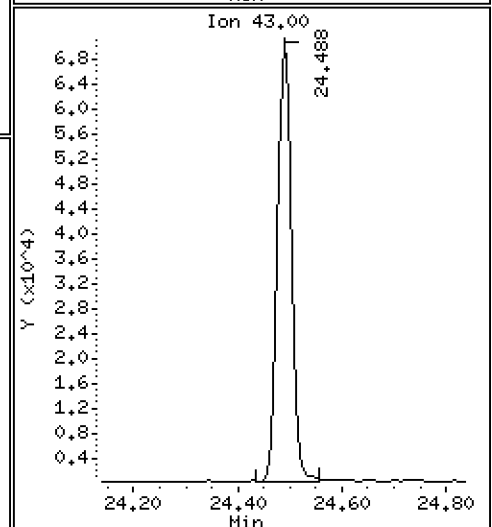
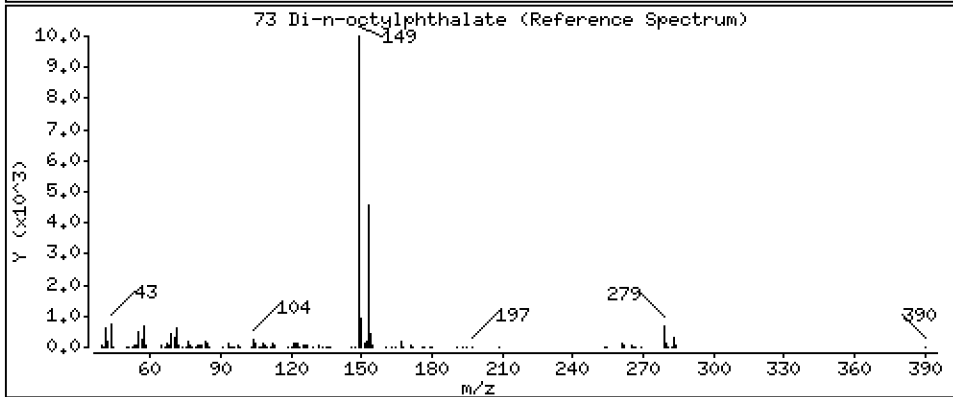
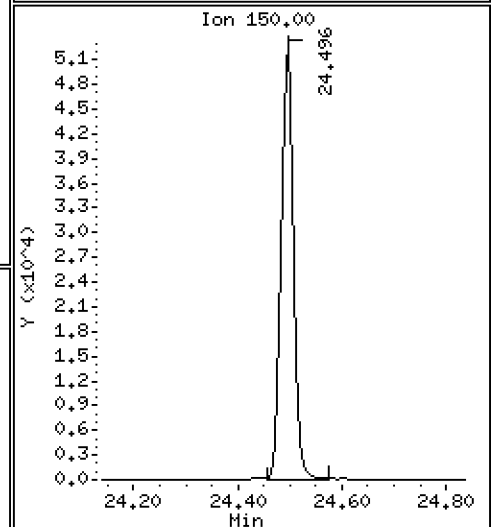
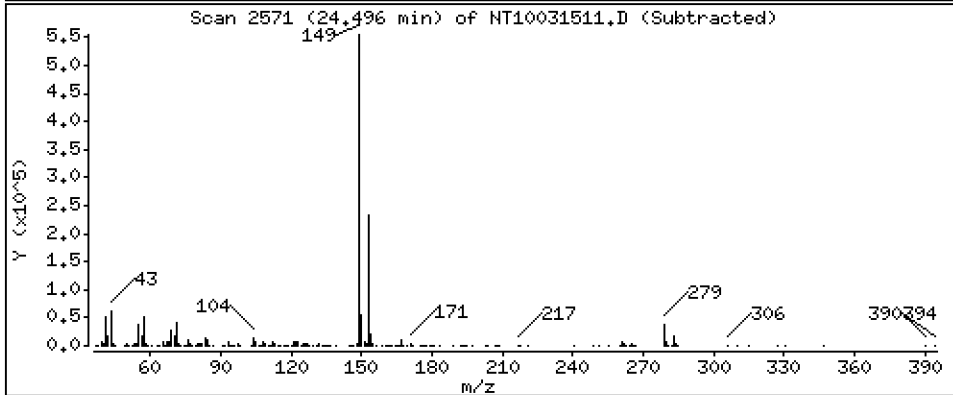
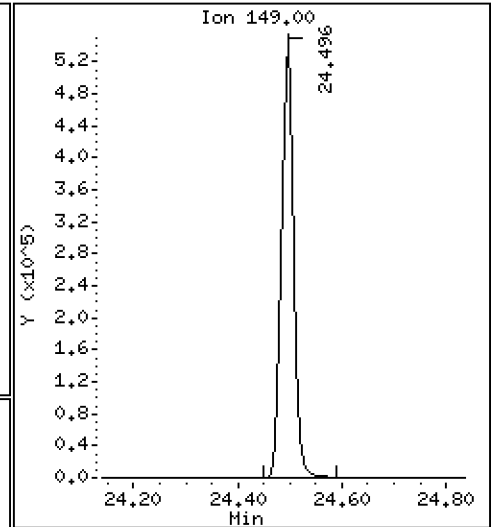
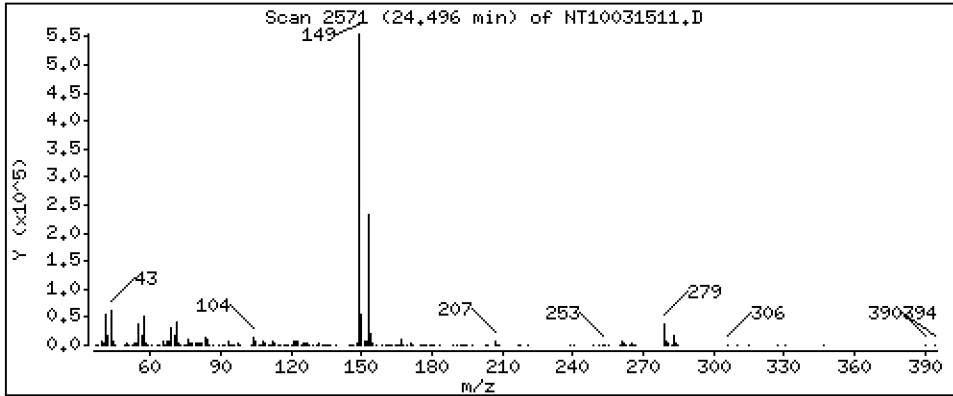
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 4,947 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

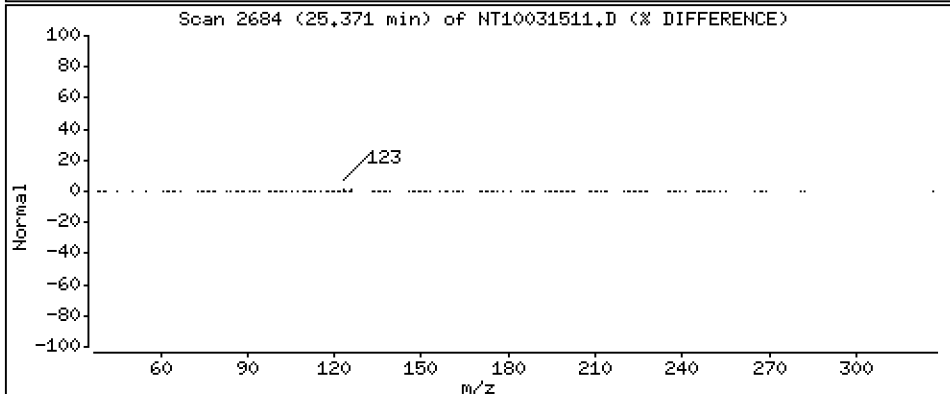
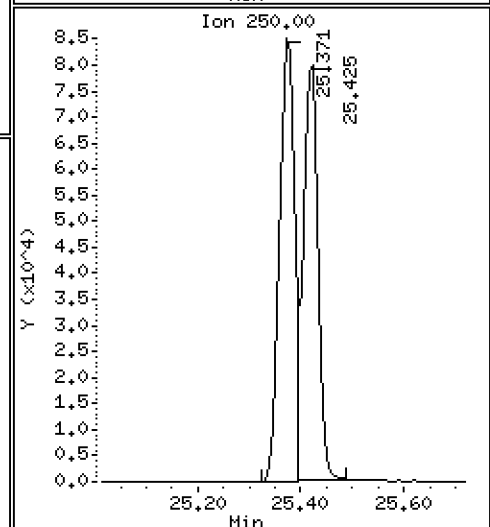
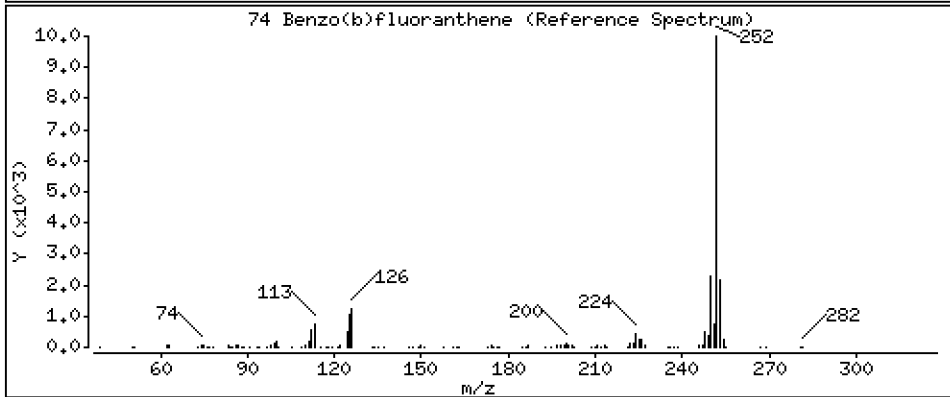
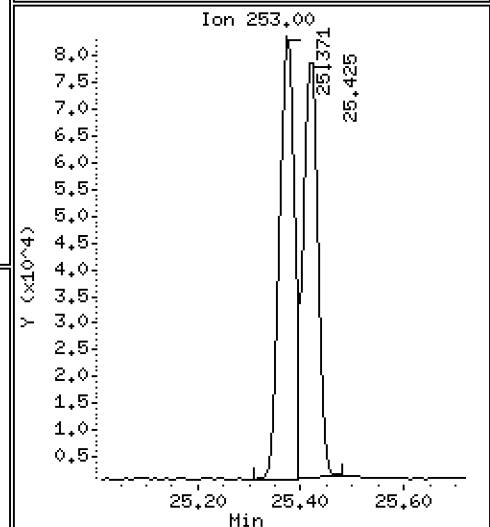
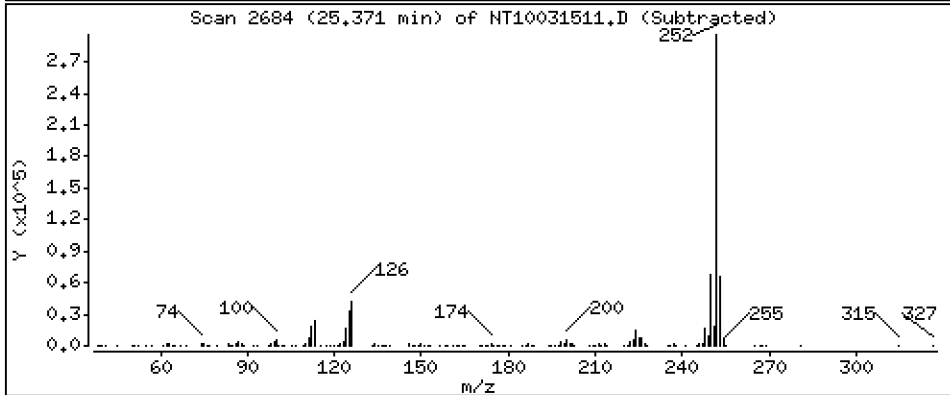
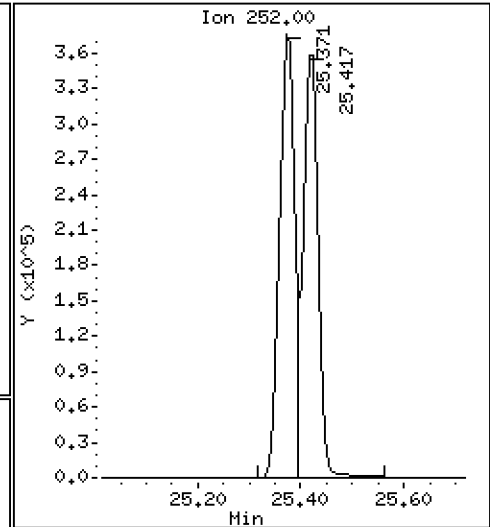
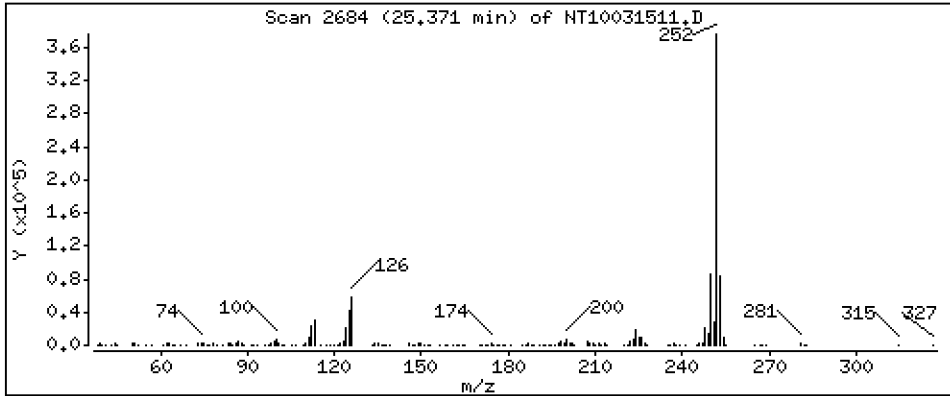
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 4,602 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

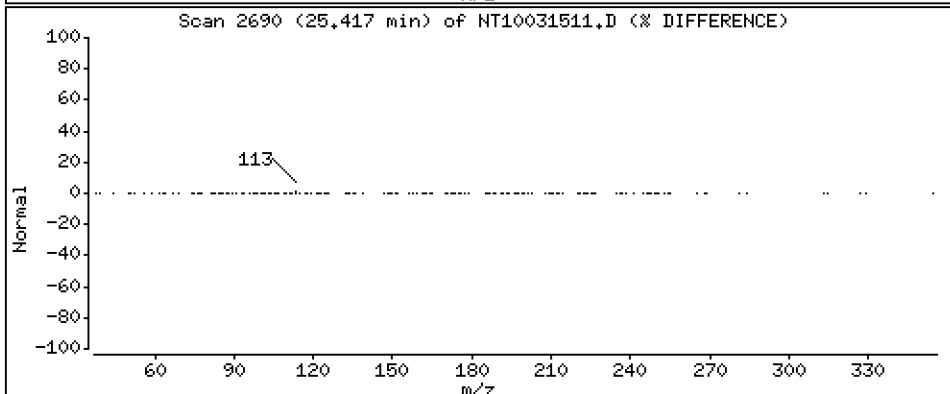
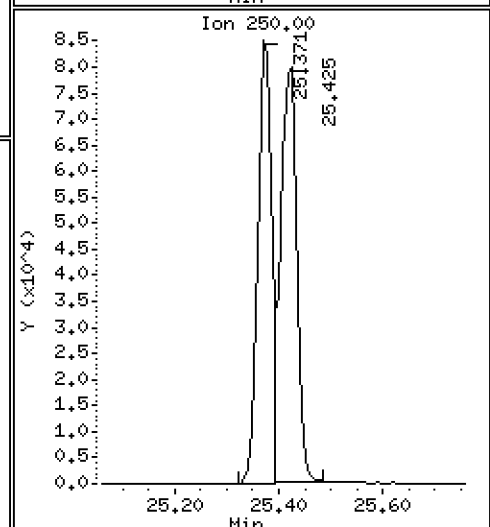
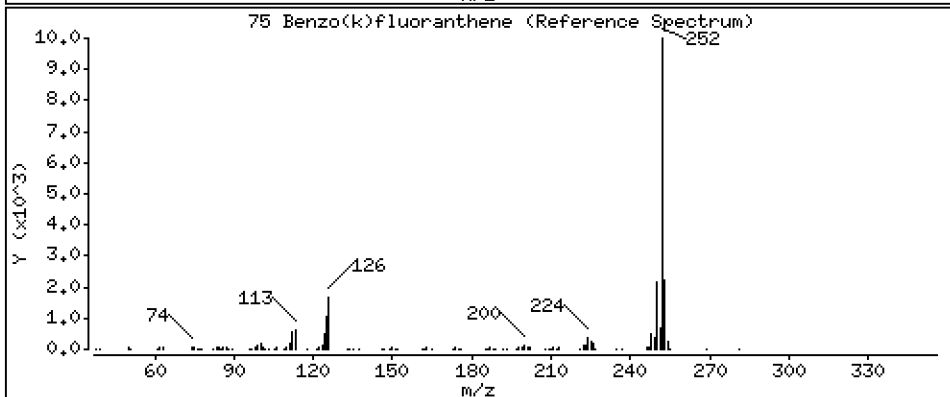
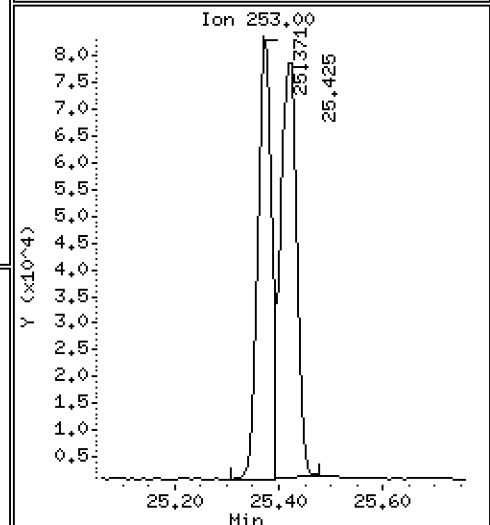
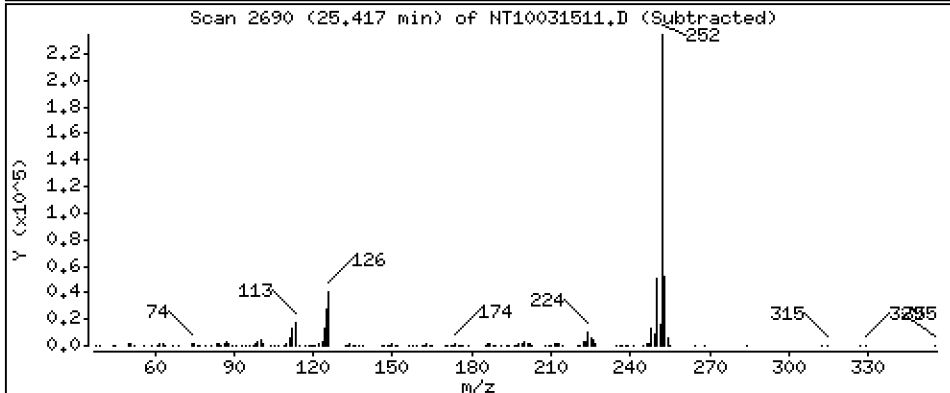
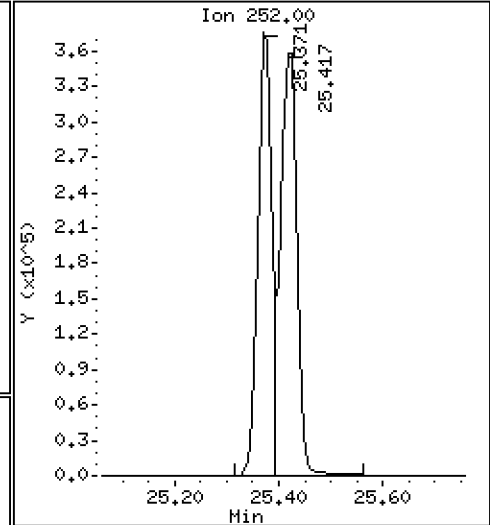
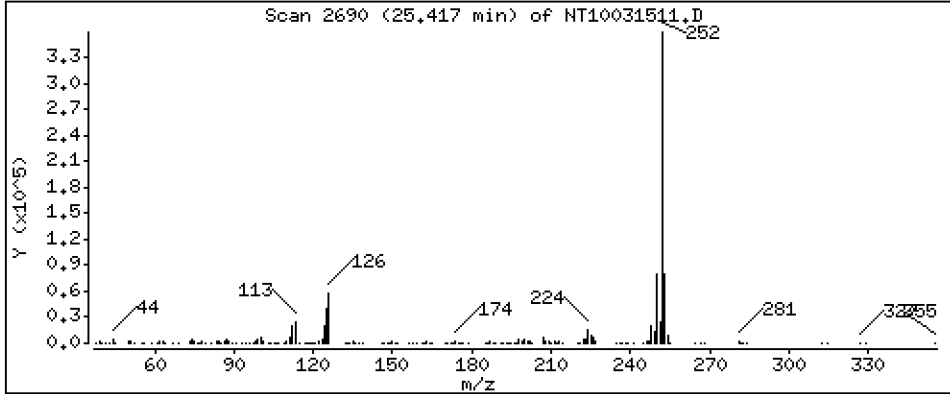
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 4,898 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

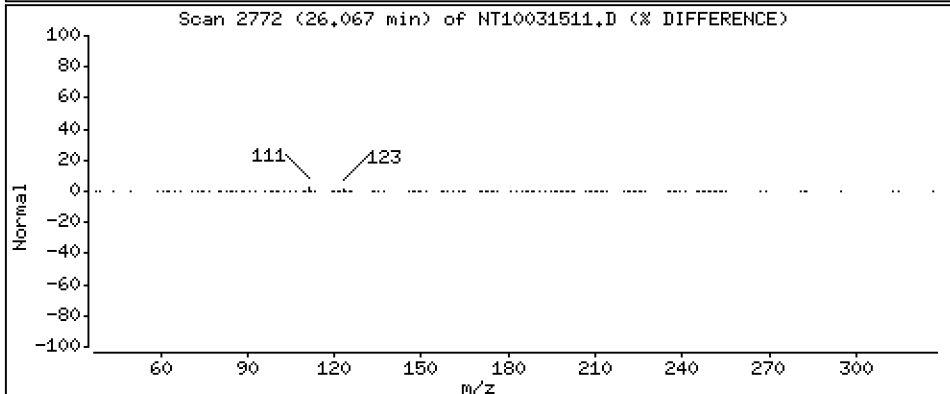
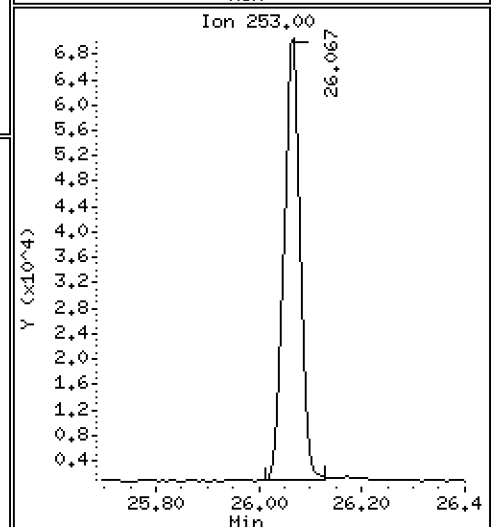
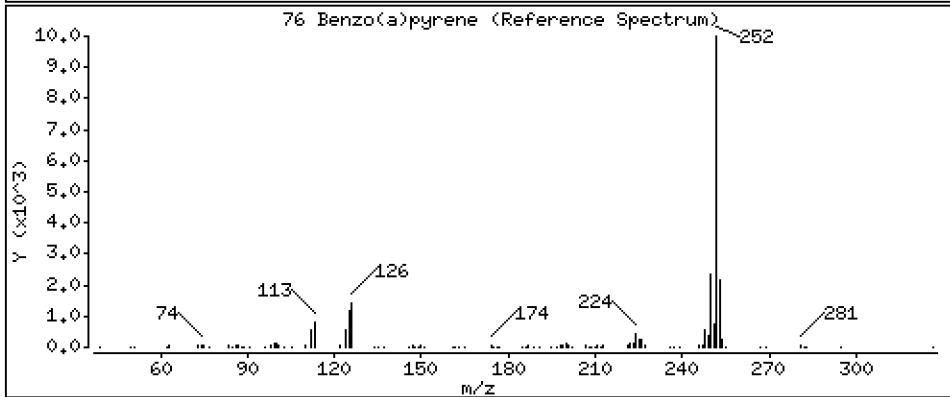
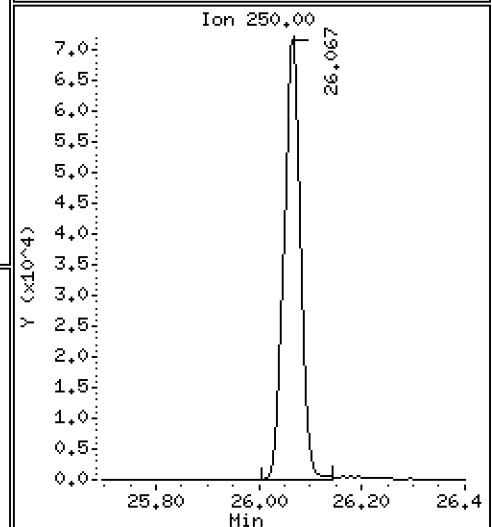
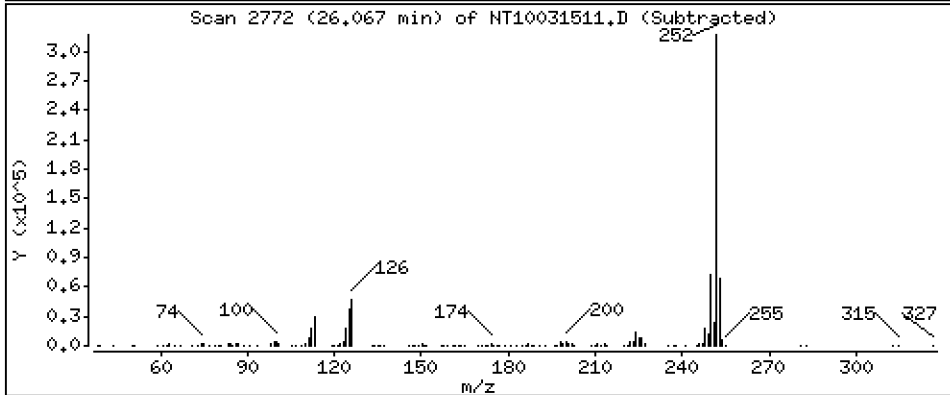
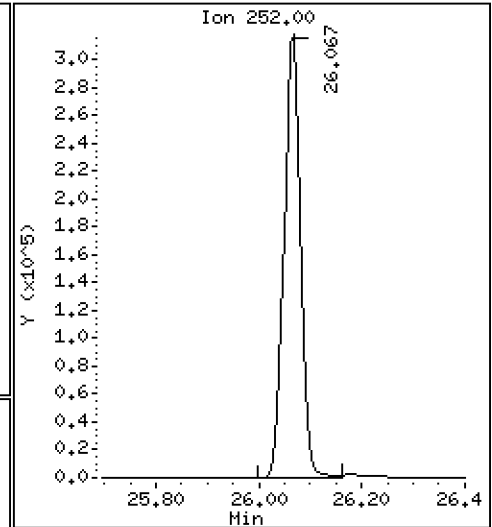
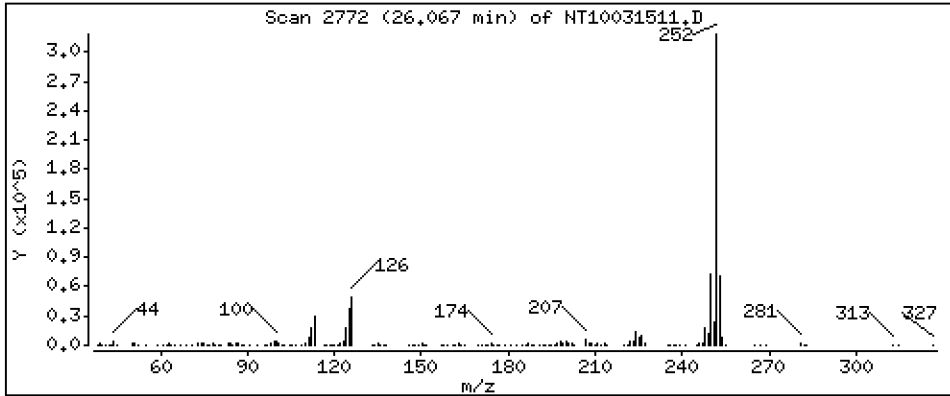
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 4,873 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

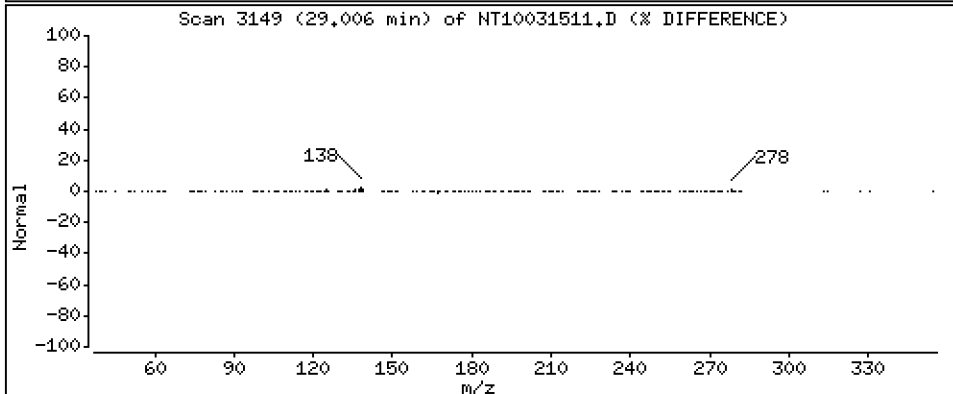
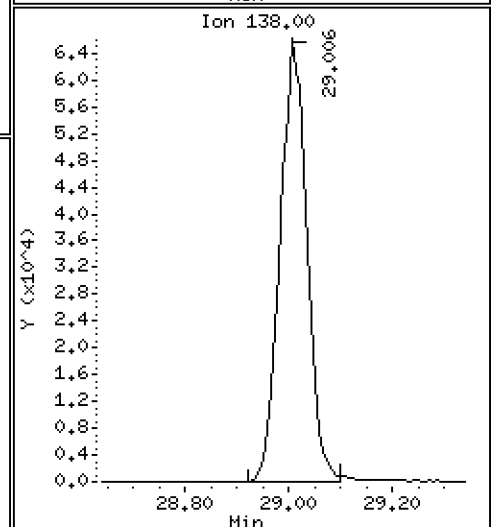
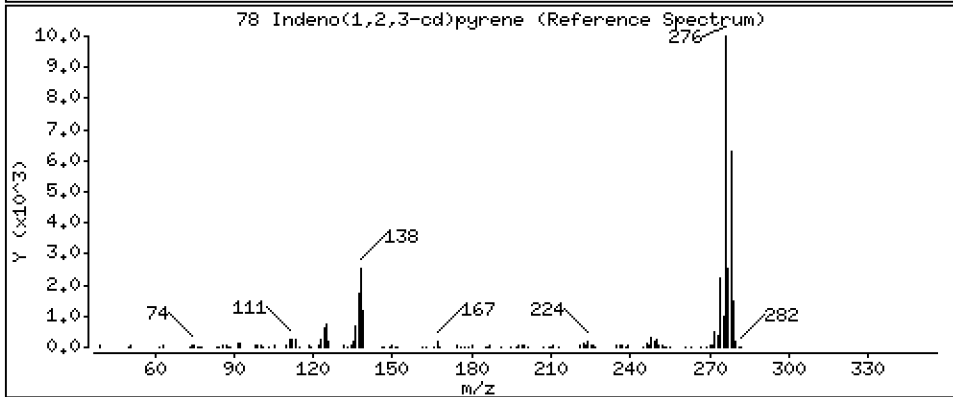
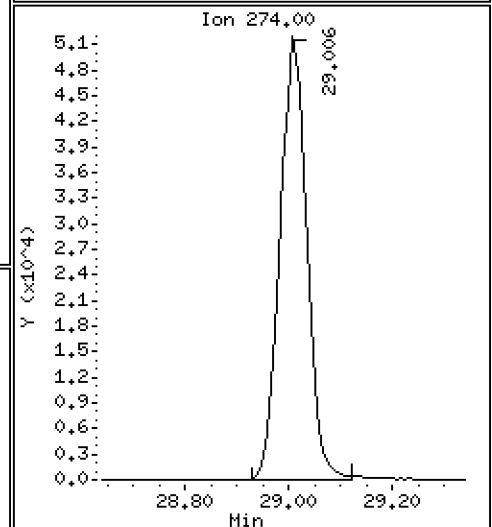
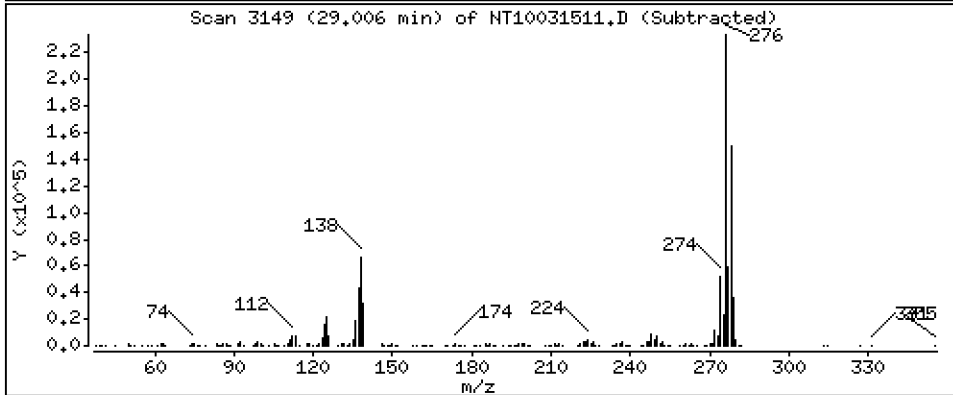
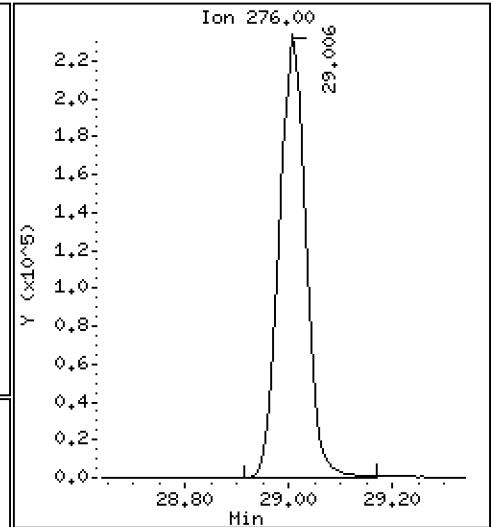
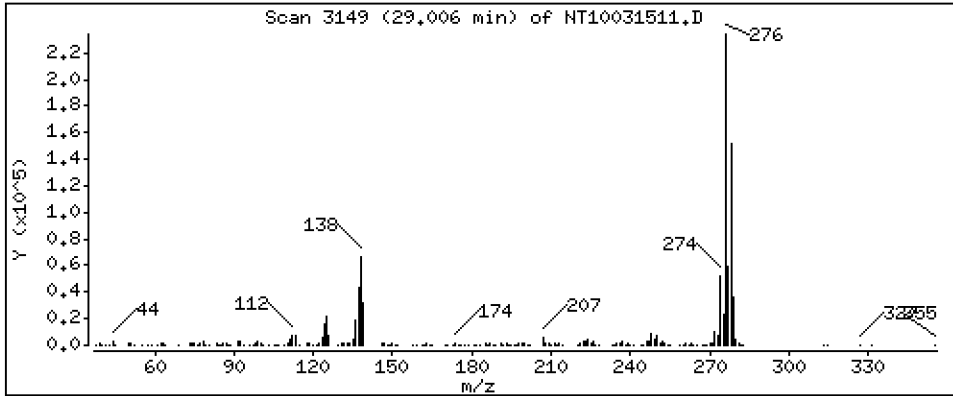
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 4,577 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

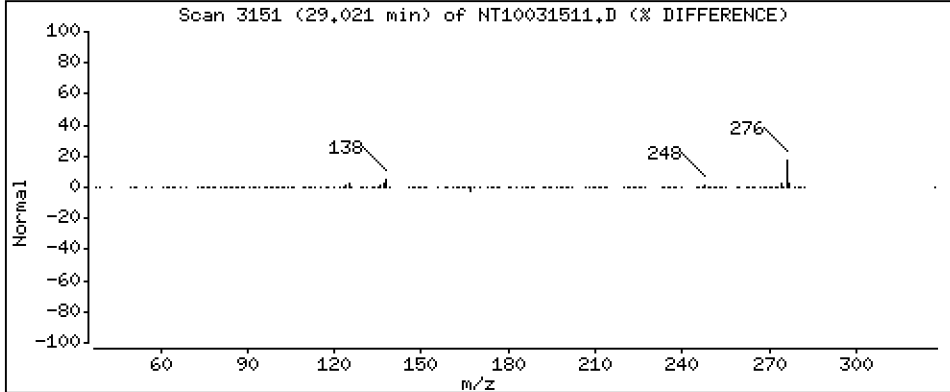
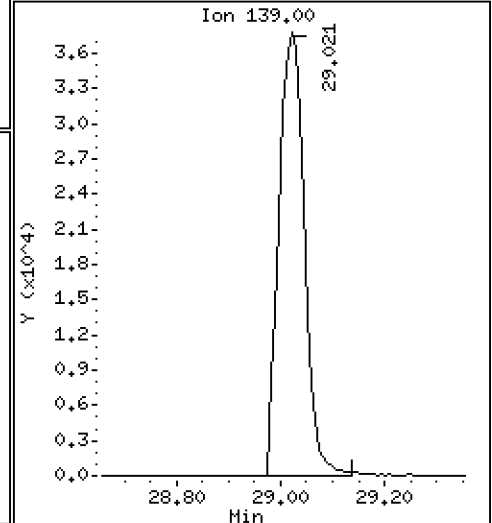
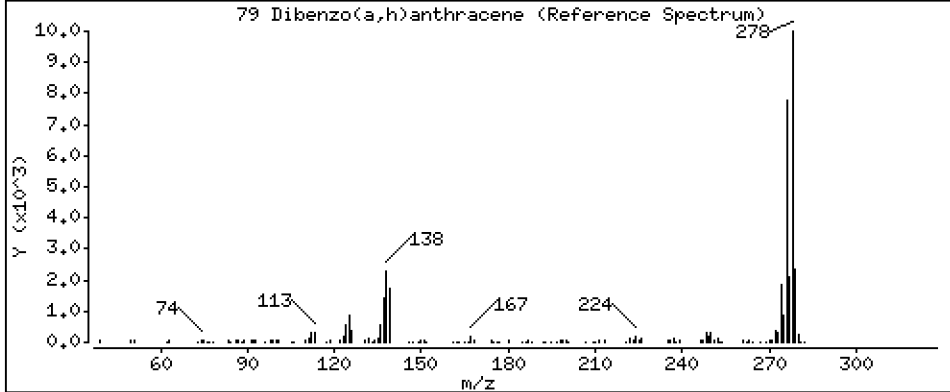
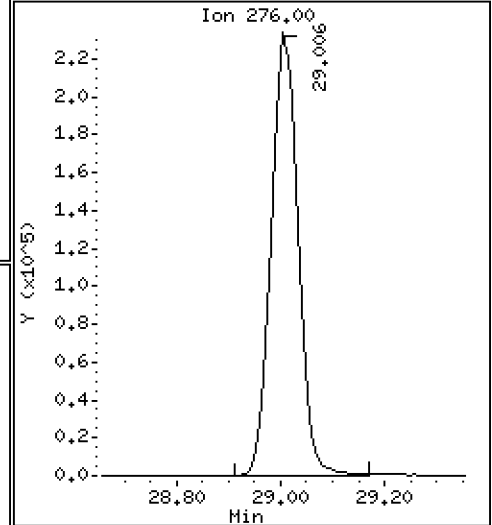
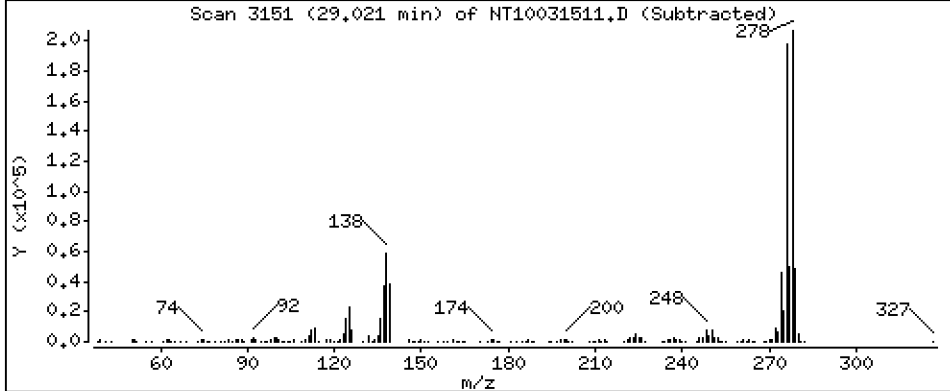
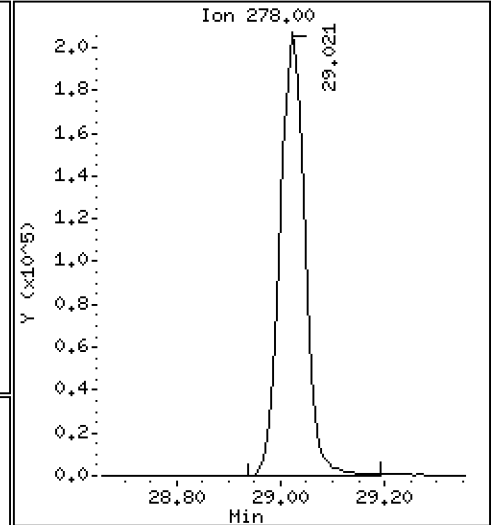
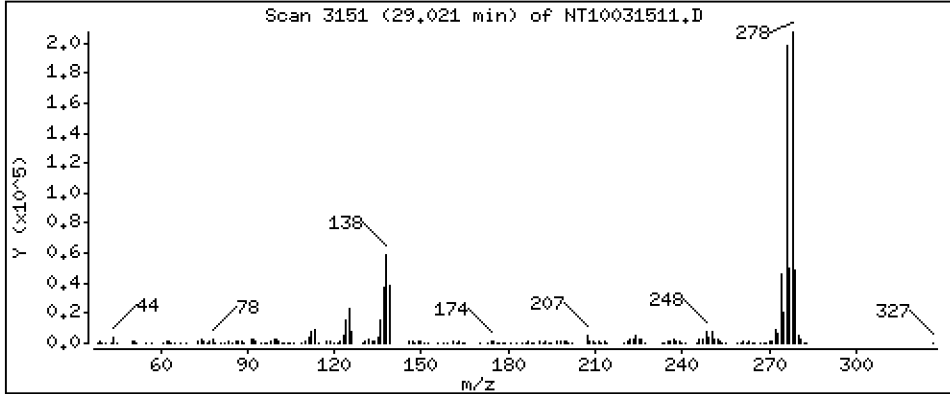
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 4,547 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

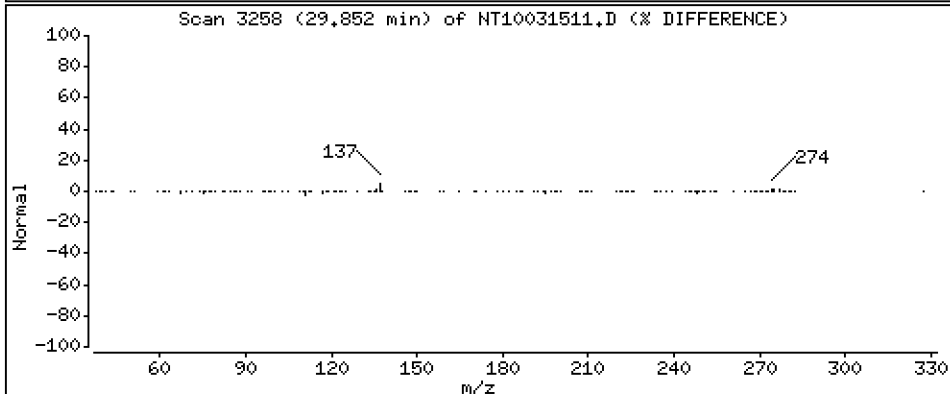
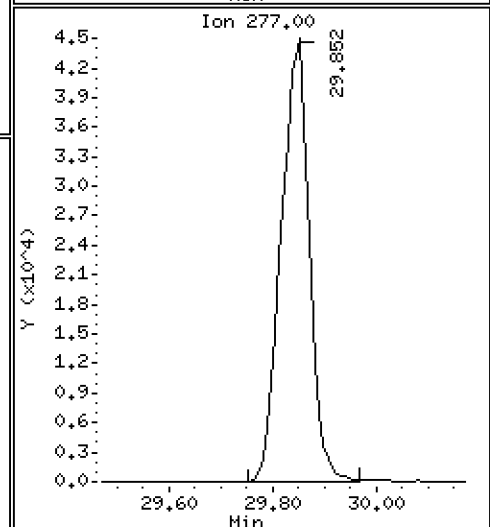
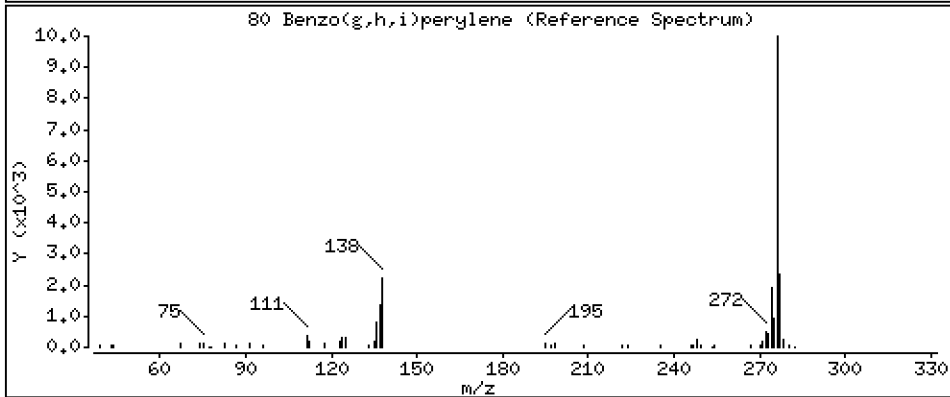
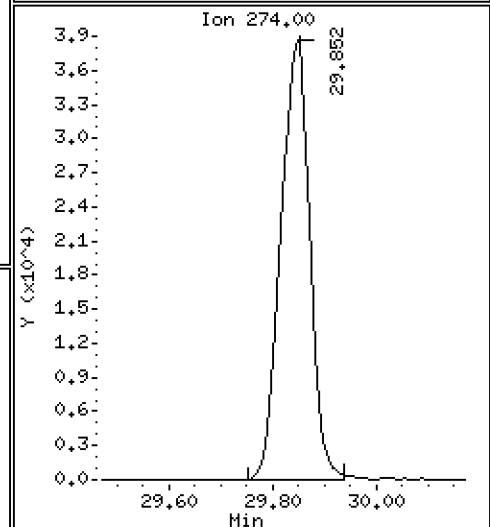
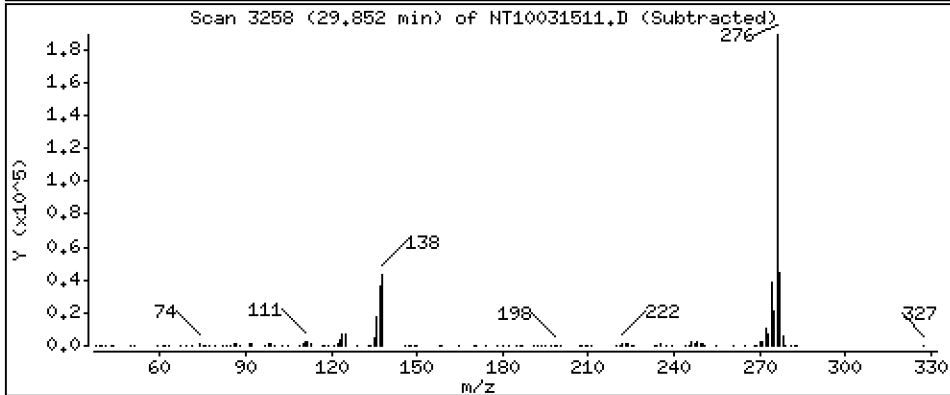
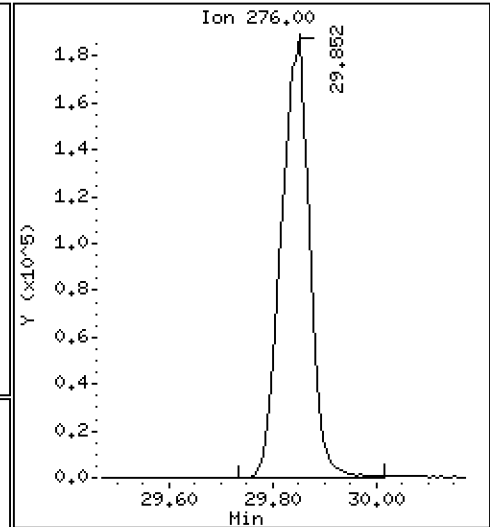
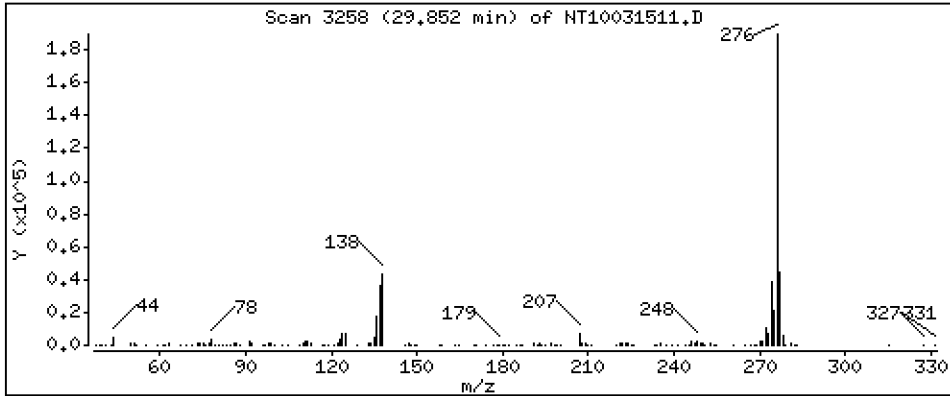
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 4,590 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

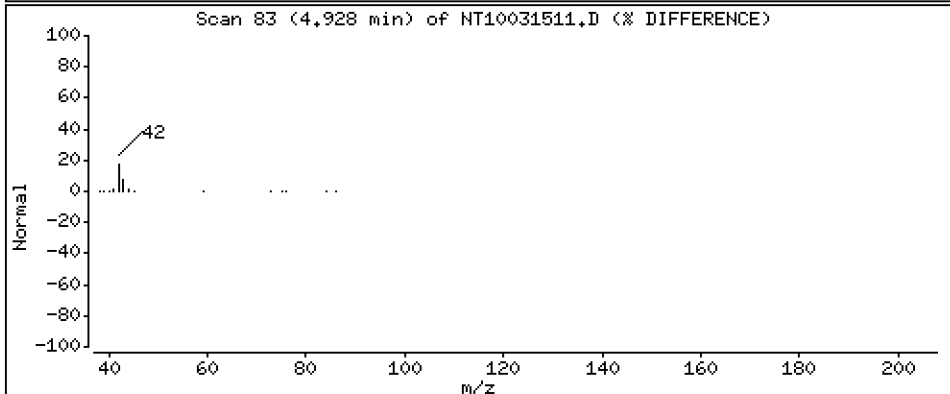
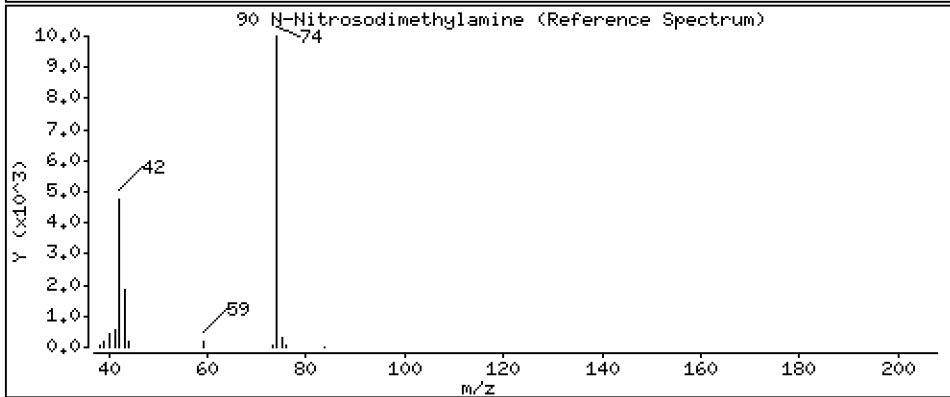
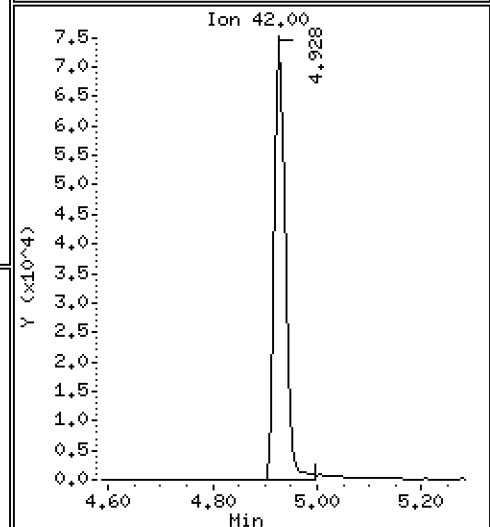
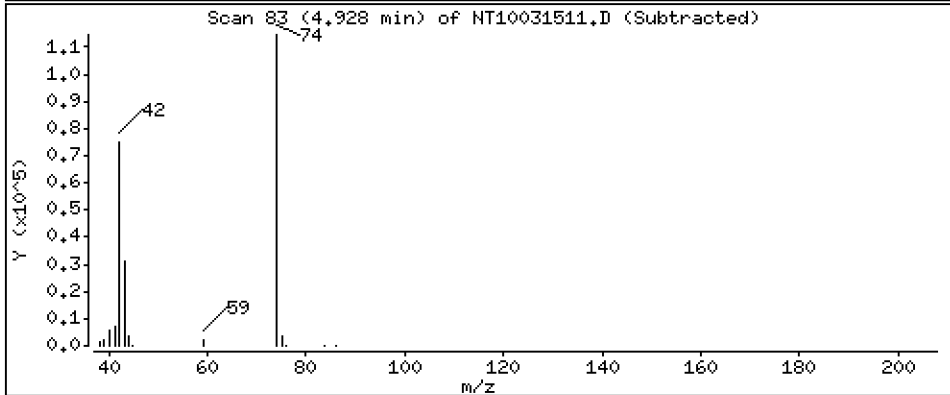
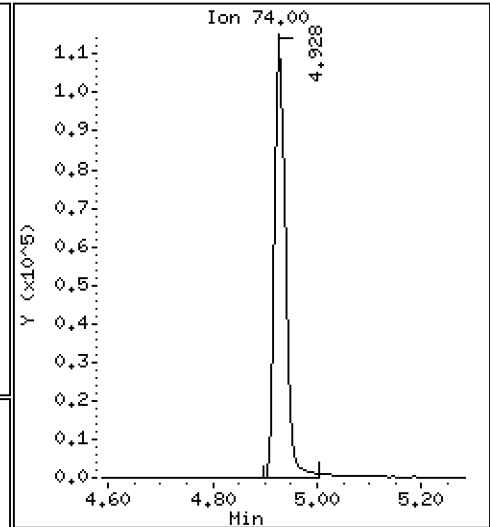
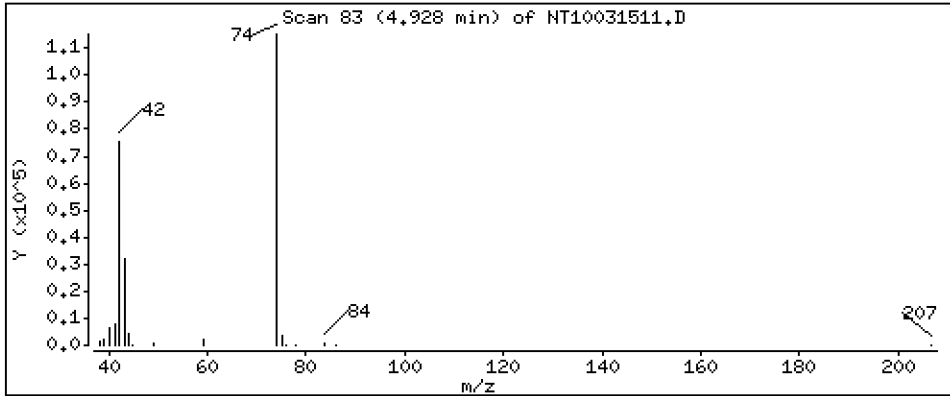
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

90 N-Nitrosodimethylamine

Concentration: 5.194 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

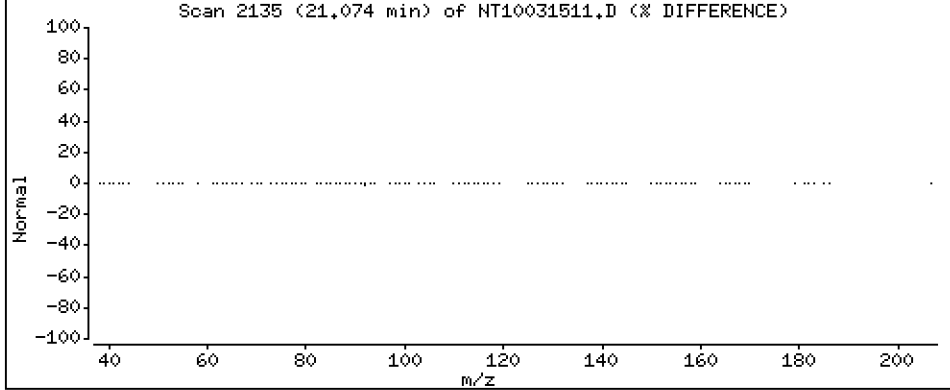
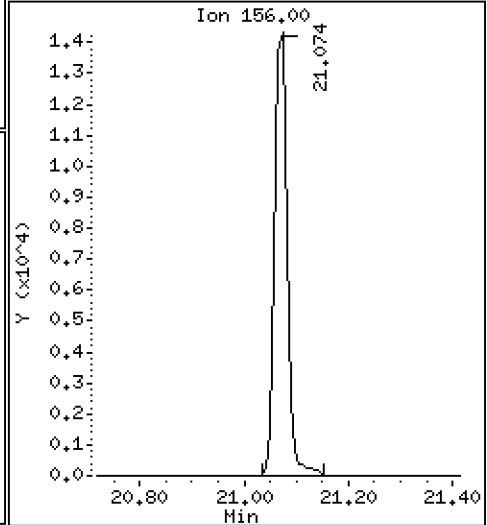
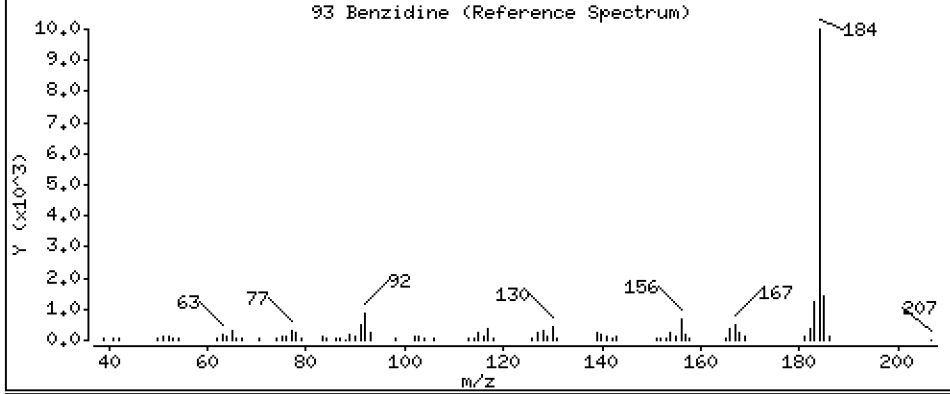
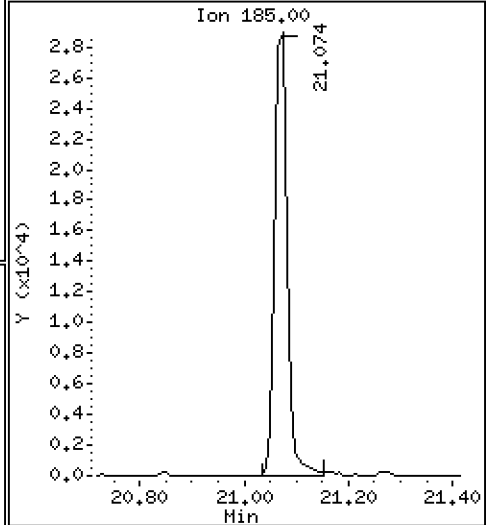
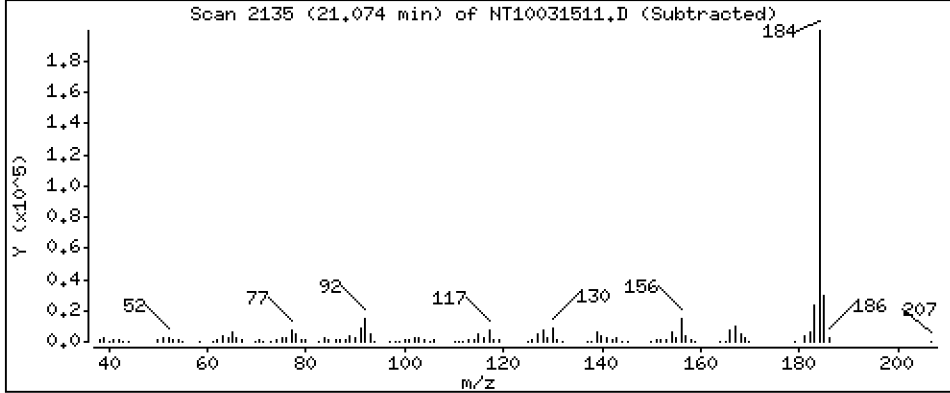
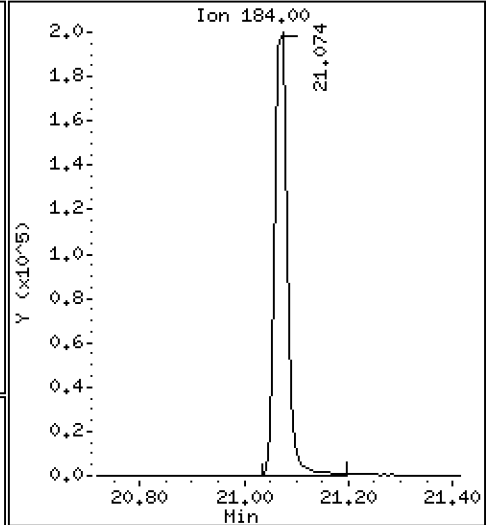
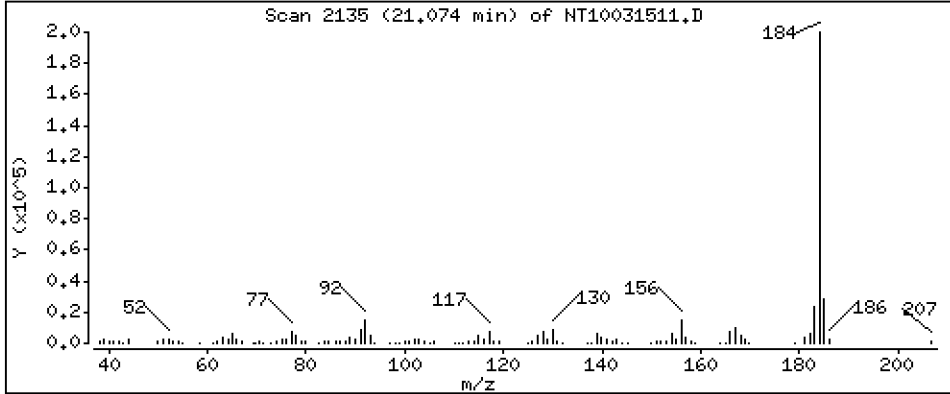
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

93 Benzidine

Concentration: 4,380 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

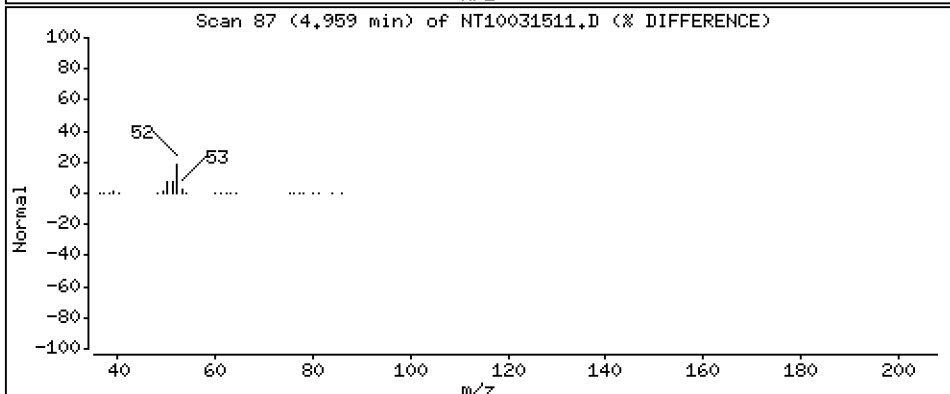
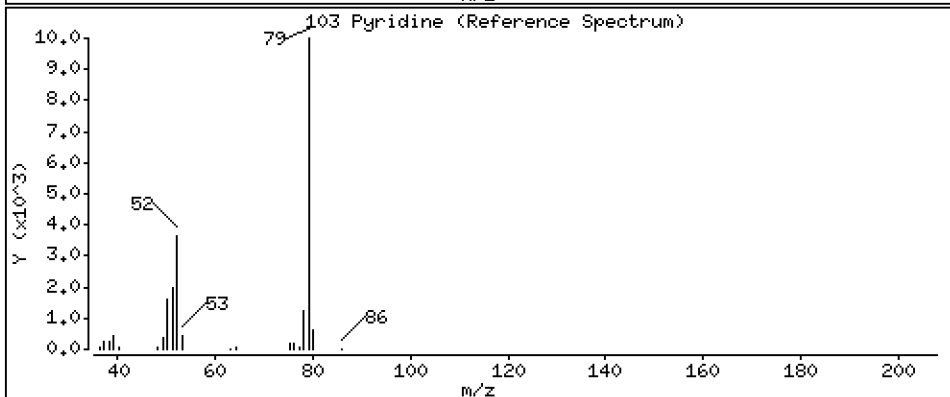
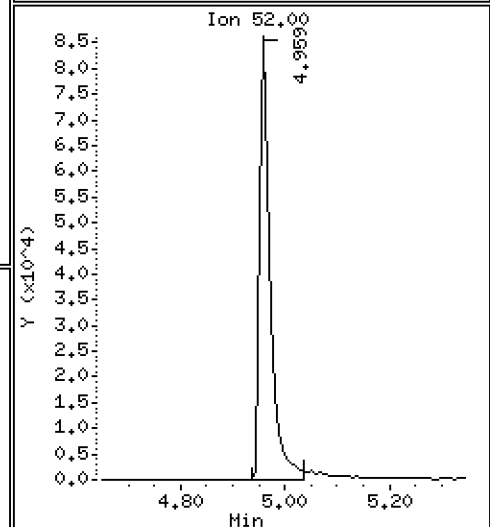
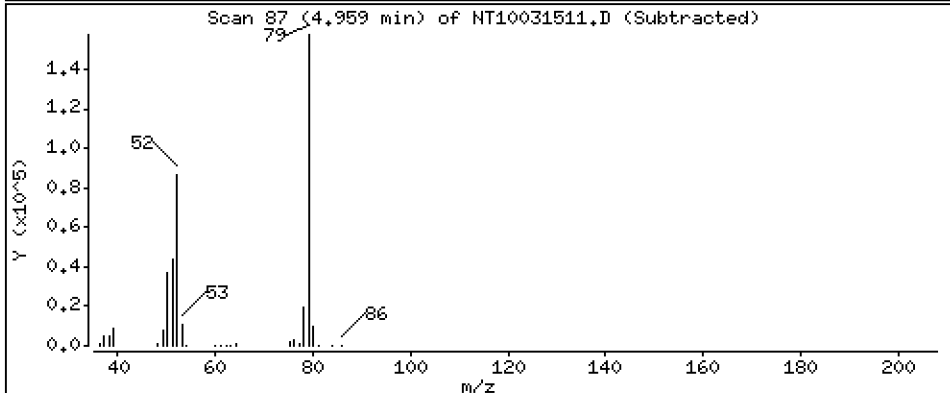
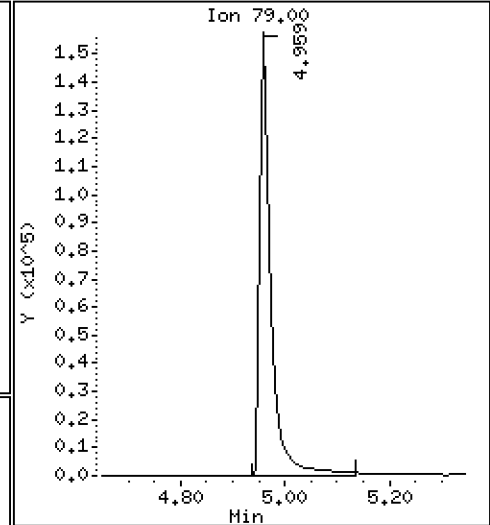
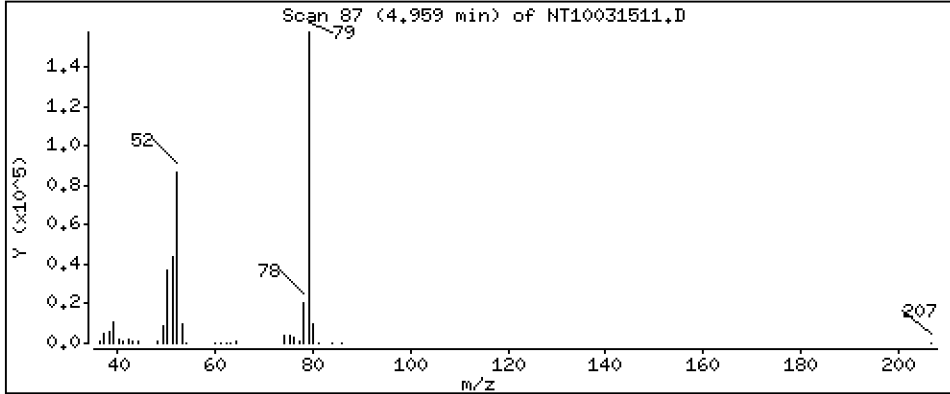
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

103 Pyridine

Concentration: 5.337 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

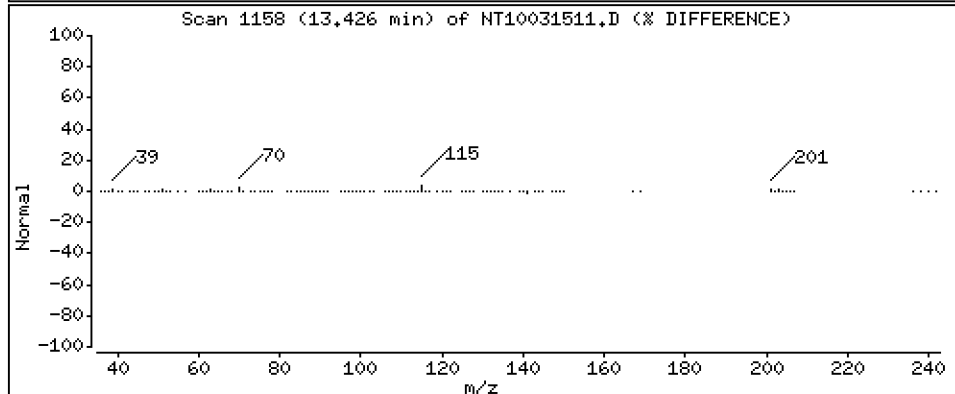
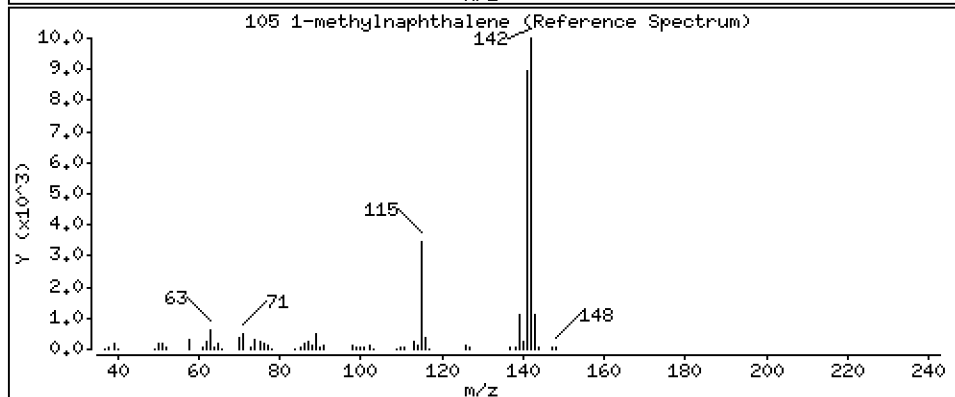
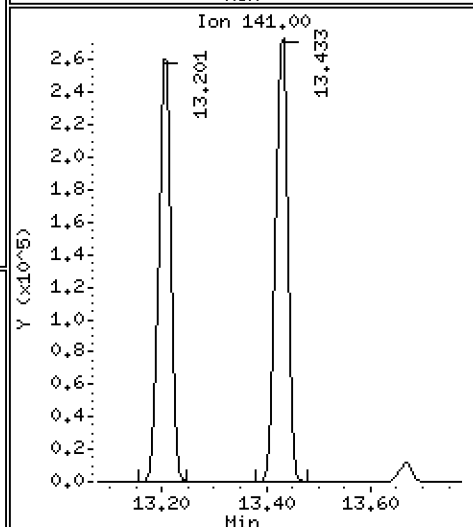
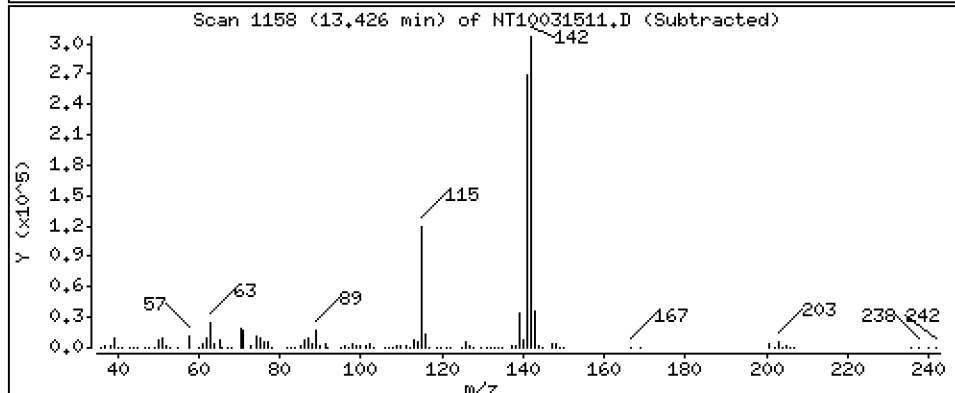
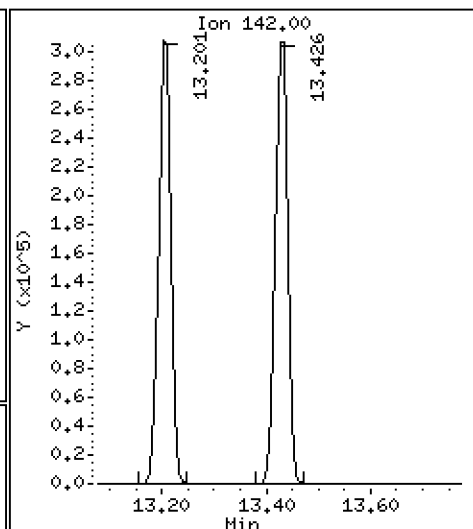
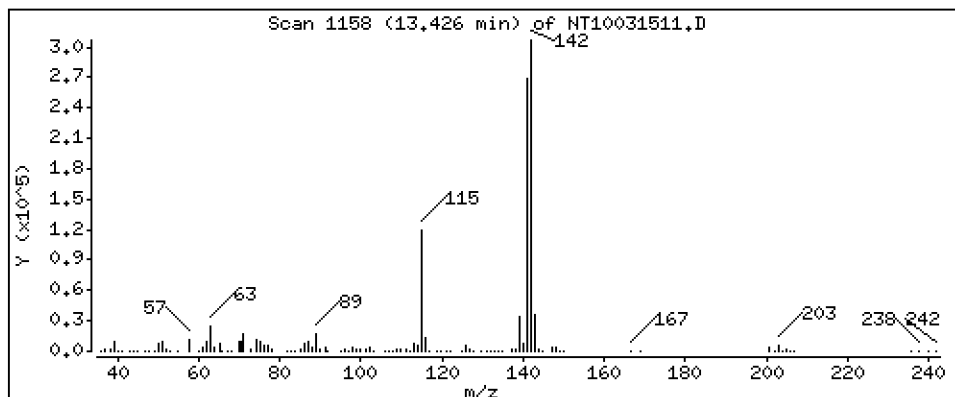
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 4,875 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

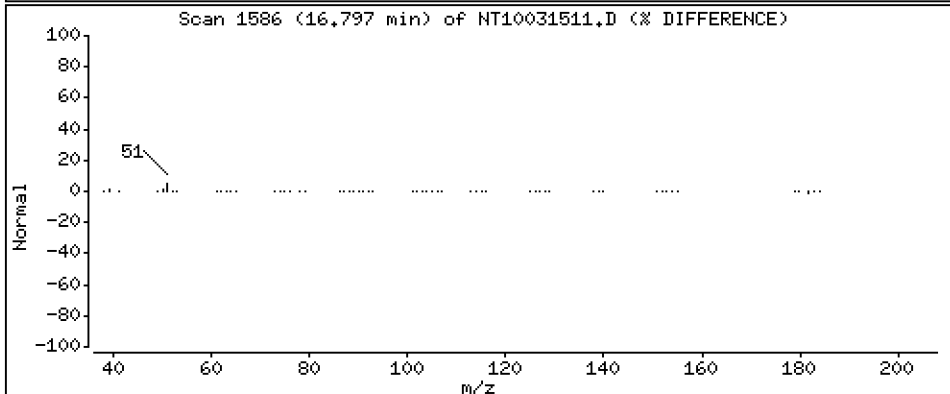
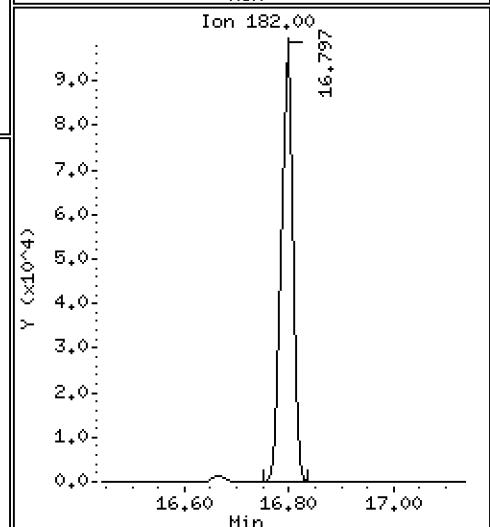
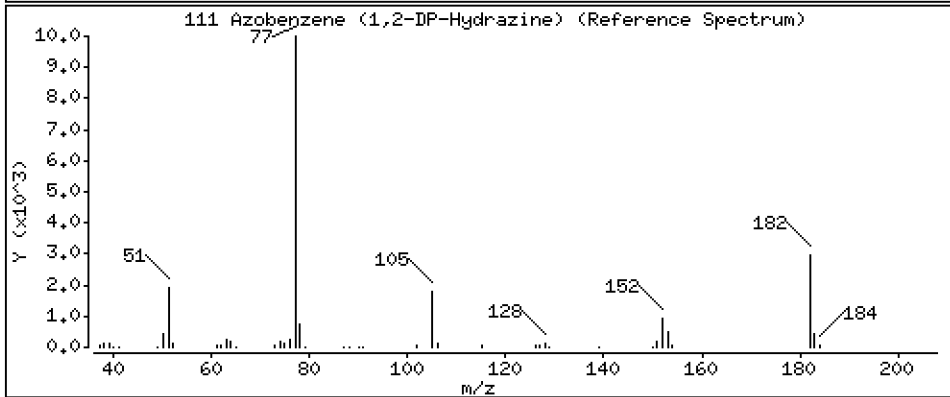
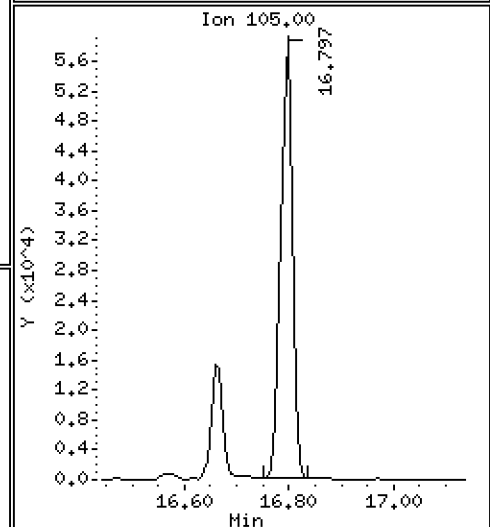
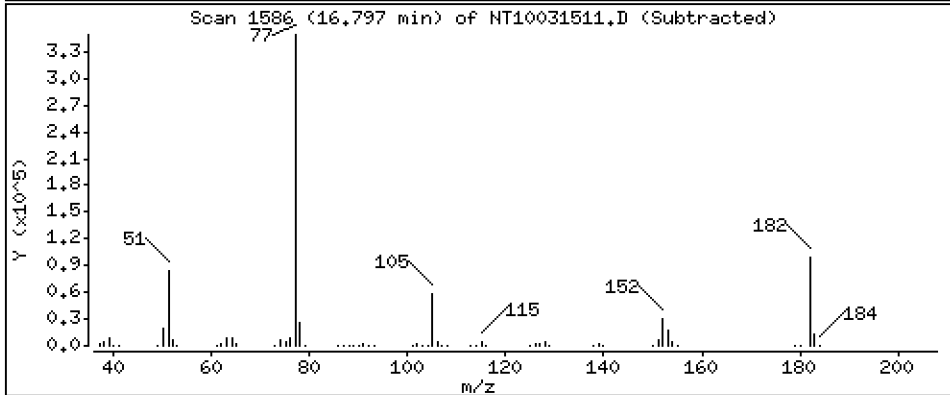
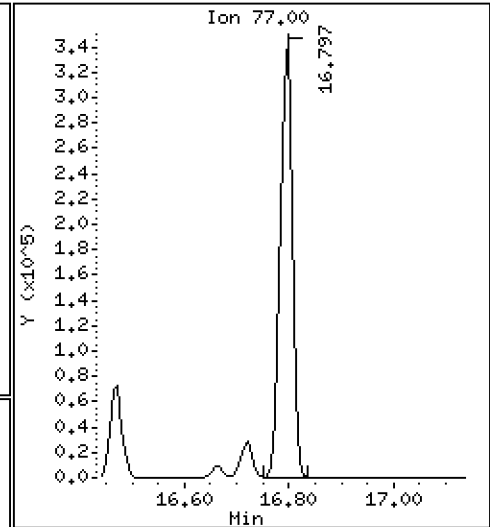
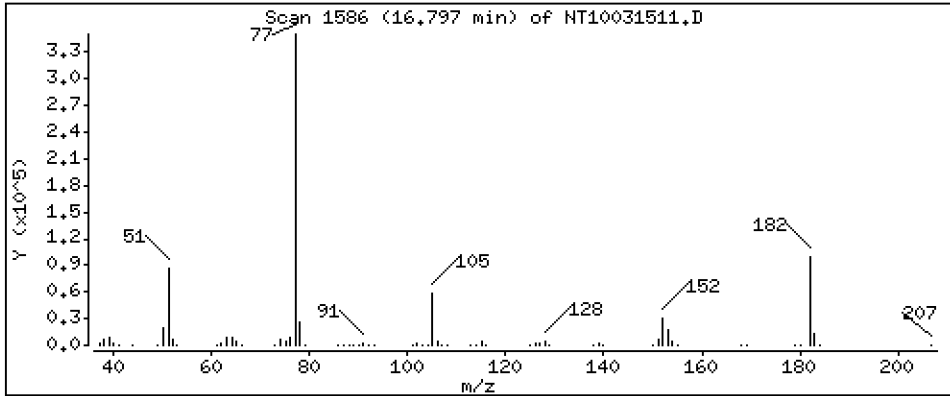
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 4,937 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

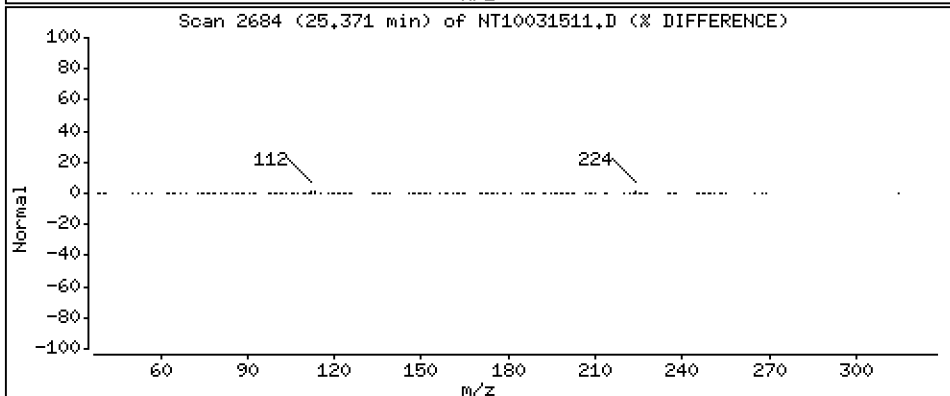
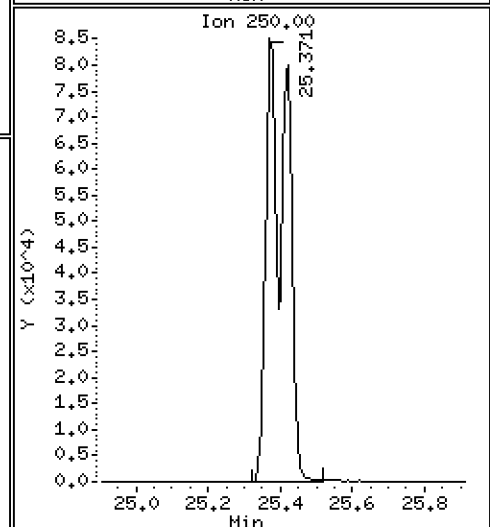
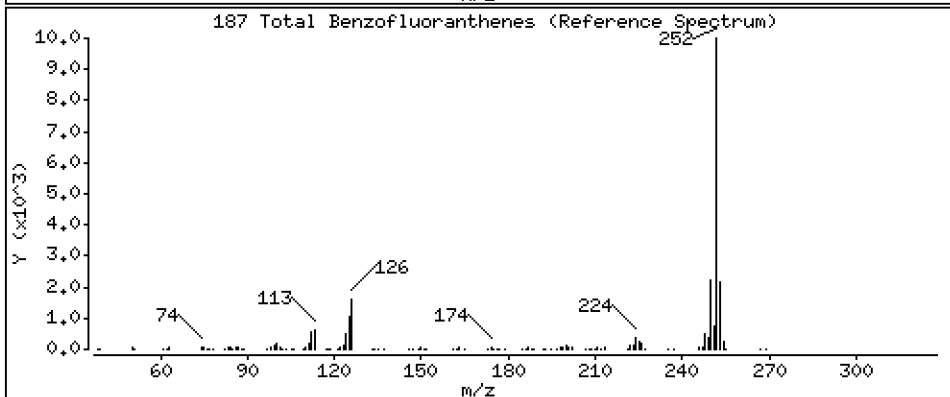
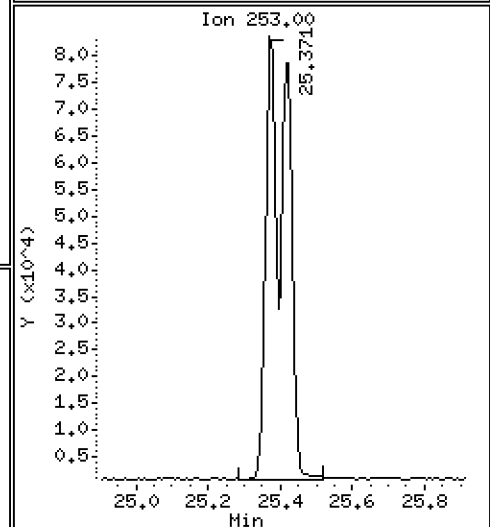
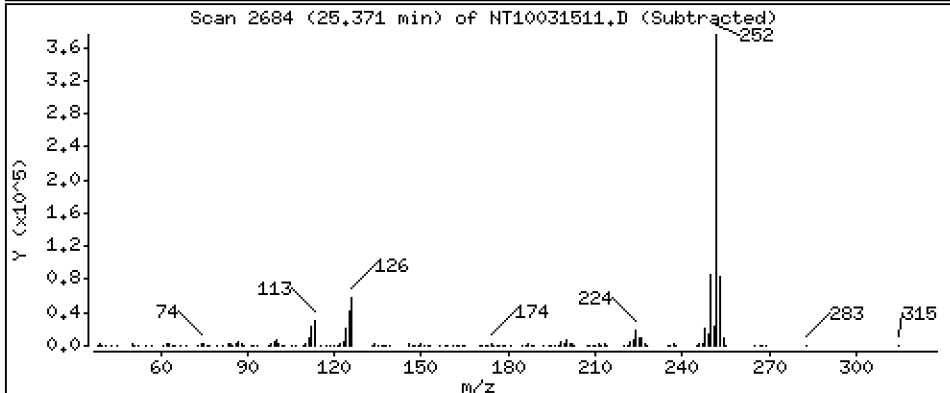
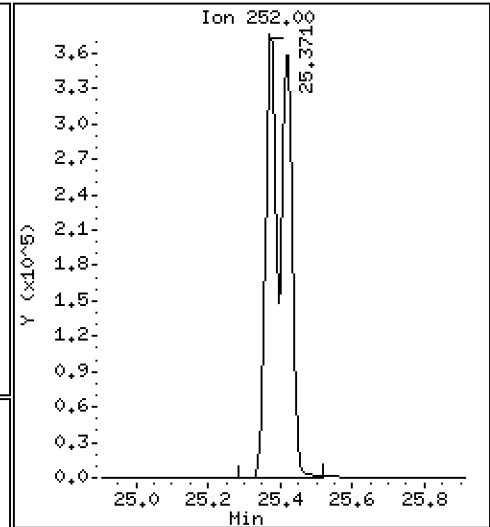
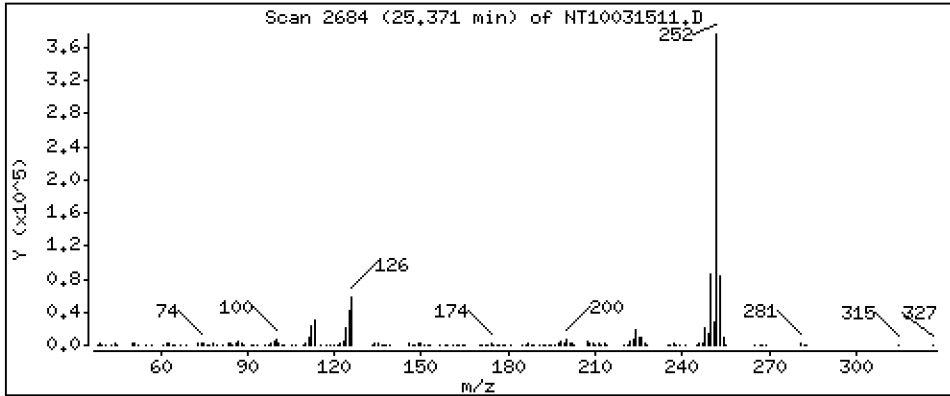
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 9,483 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

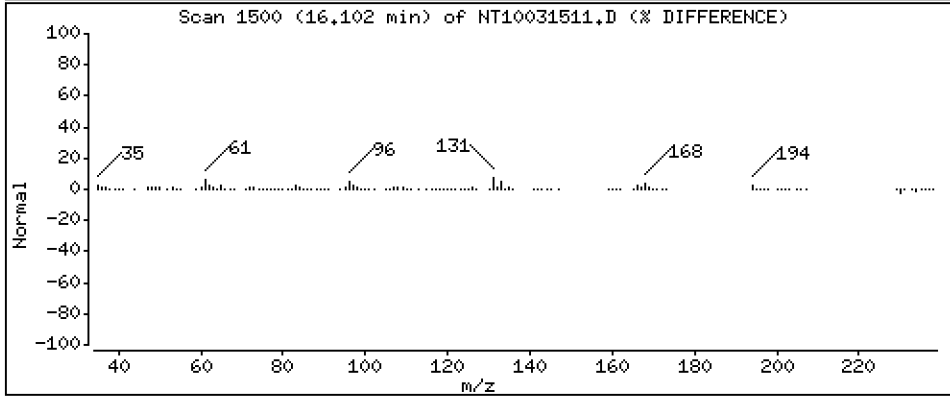
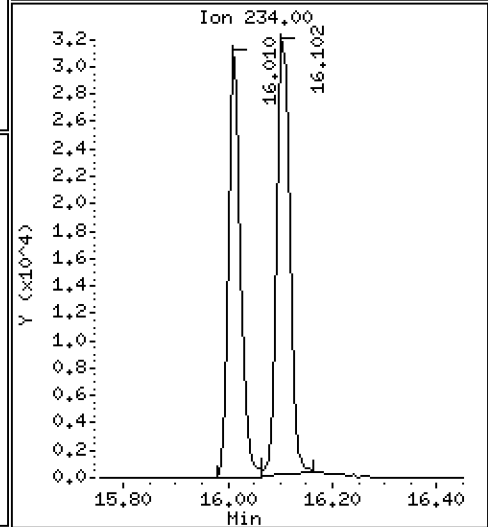
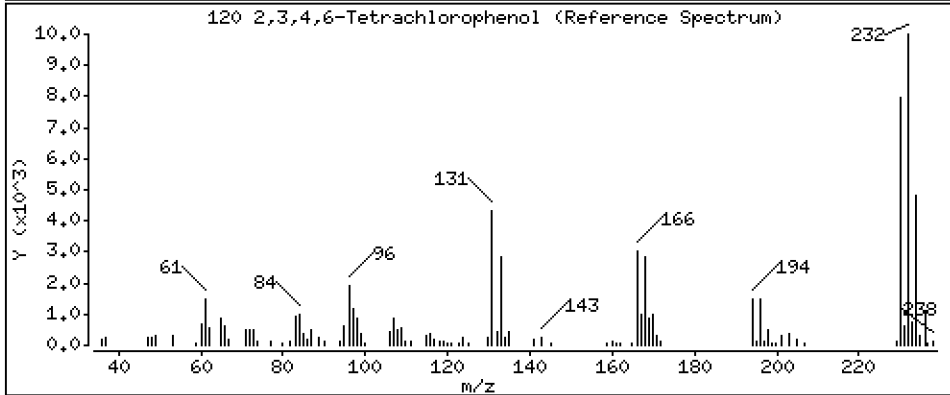
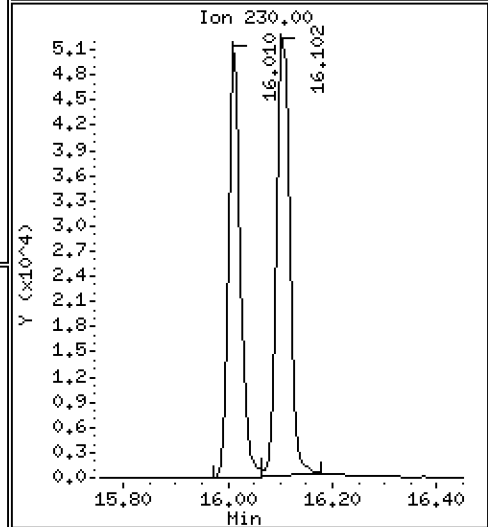
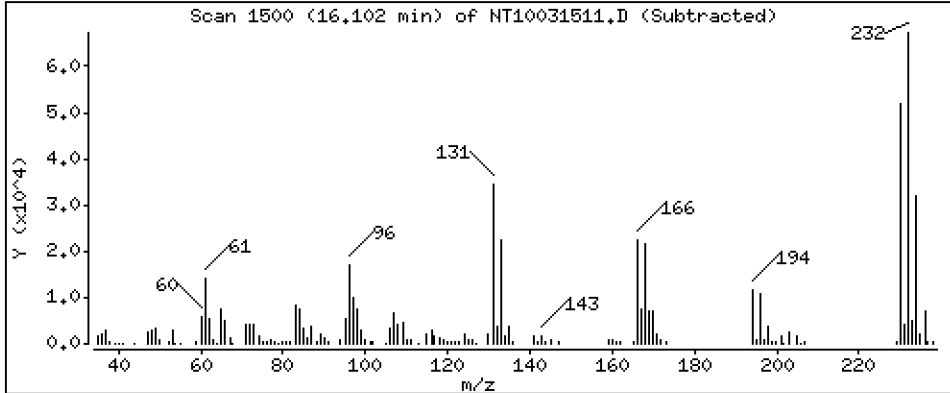
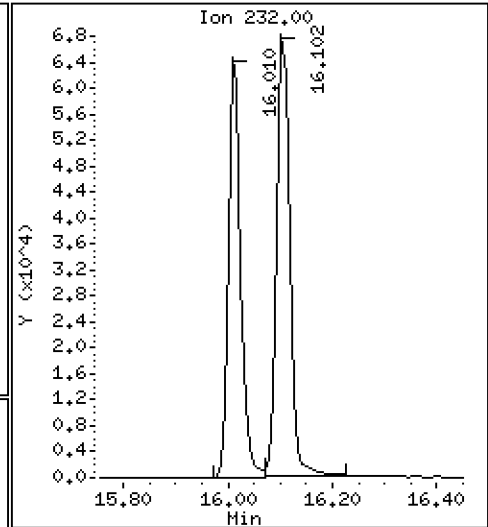
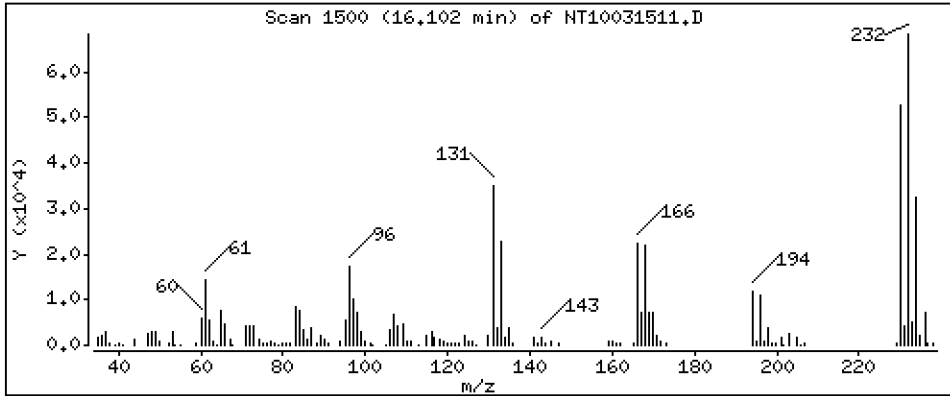
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

120 2,3,4,6-Tetrachlorophenol

Concentration: 3,980 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230315.b\NT10031511.D
 Lab Smp Id: SLC0228-SCV1
 Inj Date : 16-MAR-2023 02:16
 Operator : VTS Inst ID: nt10.i
 Smp Info : SLC0228-SCV1
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt10.i\20230315.b\ABN.m
 Meth Date : 16-Mar-2023 12:06 van Quant Type: ISTD
 Cal Date : 16-MAR-2023 00:22 Cal File: NT10031508.D
 Als bottle: 11
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: ICAL.sub
 Target Version: 4.14
 Processing Host: VANS-201906

| Compounds | QUANT | SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|---------------------------------|-------|-----|--------|--------|---------|------------------------|----------------|---------|
| | | | | | | | ON-COLUMN | FINAL |
| | MASS | | | | | | (ug/mL) | (ug/mL) |
| ===== | ==== | | ==== | ===== | ===== | ===== | ===== | ===== |
| \$ 1 2-Fluorophenol | 112 | | | | | Compound Not Detected. | | |
| \$ 2 Phenol-d5 | 99 | | | | | Compound Not Detected. | | |
| 3 Phenol | 94 | | 8.659 | 8.652 | (0.931) | 281600 | 4.41237 | 4.412 |
| \$ 5 2-Chlorophenol-d4 | 132 | | | | | Compound Not Detected. | | |
| 4 Bis(2-Chloroethyl)ether | 93 | | 8.837 | 8.837 | (0.950) | 248892 | 5.25818 | 5.258 |
| 6 2-Chlorophenol | 128 | | 8.960 | 8.961 | (0.963) | 233608 | 4.27685 | 4.277 |
| 7 1,3-Dichlorobenzene | 146 | | 9.239 | 9.231 | (0.993) | 275540 | 4.77157 | 4.772 |
| * 8 1,4-Dichlorobenzene-d4 | 152 | | 9.301 | 9.293 | (1.000) | 154809 | 4.00000 | |
| 9 1,4-Dichlorobenzene | 146 | | 9.332 | 9.325 | (1.003) | 274051 | 4.91272 | 4.913 |
| \$ 10 1,2-Dichlorobenzene-d4 | 152 | | | | | Compound Not Detected. | | |
| 12 1,2-Dichlorobenzene | 146 | | 9.689 | 9.682 | (1.042) | 268028 | 4.88215 | 4.882 |
| 11 Benzyl alcohol | 108 | | 9.557 | 9.557 | (1.028) | 147597 | 4.92722 | 4.927 |
| 14 2,2'-oxybis(1-Chloropropane) | 121 | | 9.860 | 9.860 | (1.060) | 100179 | 6.21363 | 6.214 |
| 13 2-Methylphenol | 108 | | 9.775 | 9.767 | (1.051) | 196115 | 4.21542 | 4.215 |
| 17 Hexachloroethane | 117 | | 10.279 | 10.271 | (1.105) | 114513 | 5.00332 | 5.003 |
| 16 N-Nitroso-di-n-propylamine | 70 | | 10.116 | 10.108 | (1.088) | 190250 | 5.17896 | 5.179 |
| 15 4-Methylphenol | 108 | | 10.046 | 10.031 | (1.080) | 213951 | 4.36462 | 4.365 |
| \$ 18 Nitrobenzene-d5 | 82 | | | | | Compound Not Detected. | | |
| 19 Nitrobenzene | 77 | | 10.426 | 10.419 | (0.885) | 274714 | 4.85798 | 4.858 |
| 20 Isophorone | 82 | | 10.861 | 10.861 | (0.922) | 556741 | 7.69604 | 7.696 |
| 21 2-Nitrophenol | 139 | | 11.047 | 11.048 | (0.938) | 110302 | 3.99452 | 3.995 |
| 22 2,4-Dimethylphenol | 107 | | 11.081 | 11.082 | (0.941) | 188638 | 3.63181 | 3.632 |
| 23 Bis(2-Chloroethoxy)methane | 93 | | 11.285 | 11.285 | (0.958) | 273219 | 5.65409 | 5.654 |
| 24 Benzoic acid | 105 | | 11.217 | 11.166 | (0.952) | 173961 | 5.95241 | 5.952 |
| 25 2,4-Dichlorophenol | 162 | | 11.489 | 11.489 | (0.975) | 195480 | 4.70301 | 4.703 |
| 26 1,2,4-Trichlorobenzene | 180 | | 11.685 | 11.685 | (0.992) | 222176 | 4.55366 | 4.554 |
| * 27 Naphthalene-d8 | 136 | | 11.777 | 11.770 | (1.000) | 570882 | 4.00000 | |
| 28 Naphthalene | 128 | | 11.816 | 11.816 | (1.003) | 713318 | 4.71662 | 4.717 |
| 29 4-Chloroaniline | 127 | | 11.940 | 11.940 | (1.014) | 223402 | 3.78650 | 3.787 |
| 30 Hexachlorobutadiene | 225 | | 12.171 | 12.172 | (1.033) | 138198 | 4.83404 | 4.834 |
| 31 4-Chloro-3-methylphenol | 107 | | 12.876 | 12.876 | (1.093) | 208794 | 4.64027 | 4.640 |
| 32 2-Methylnaphthalene | 142 | | 13.201 | 13.201 | (1.121) | 501627 | 4.59617 | 4.596 |
| 33 Hexachlorocyclopentadiene | 237 | | 13.665 | 13.665 | (0.888) | 132827 | 4.72902 | 4.729 |

| Compounds | QUANT | SIG | | | | | | CONCENTRATIONS | |
|-----------------------------------|-------|-----|------------------------|--------|---------|--------|----------|----------------------|------------------|
| | | | MASS | RT | EXP RT | REL RT | RESPONSE | ON-COLUMN (ug/mL) | FINAL (ug/mL) |
| 34 2,4,6-Trichlorophenol | 196 | | 13.820 | 13.820 | (0.898) | 137849 | 4.59559 | 4.596 | |
| 35 2,4,5-Trichlorophenol | 196 | | 13.889 | 13.890 | (0.903) | 146935 | 4.40855 | 4.409 | |
| § 36 2-Fluorobiphenyl | 172 | | Compound Not Detected. | | | | | | |
| 37 2-Chloronaphthalene | 162 | | 14.199 | 14.191 | (0.923) | 466196 | 4.79589 | 4.796 | |
| 38 2-Nitroaniline | 65 | | 14.454 | 14.447 | (0.940) | 134108 | 4.91137 | 4.911 | |
| 39 Dimethylphthalate | 163 | | 14.880 | 14.873 | (0.967) | 486790 | 4.93747 | 4.937 | |
| 40 Acenaphthylene | 152 | | 15.074 | 15.066 | (0.980) | 727839 | 4.80509 | 4.805 | |
| 41 2,6-Dinitrotoluene | 165 | | 15.020 | 15.012 | (0.976) | 112840 | 5.29815 | 5.298 | |
| * 42 Acenaphthene-d10 | 164 | | 15.383 | 15.383 | (1.000) | 303490 | 4.00000 | | |
| 43 3-Nitroaniline | 138 | | 15.306 | 15.298 | (0.995) | 120530 | 5.01393 | 5.014 | |
| 44 Acenaphthene | 153 | | 15.453 | 15.445 | (1.005) | 446914 | 4.77589 | 4.776 | |
| 45 2,4-Dinitrophenol | 184 | | 15.515 | 15.515 | (1.009) | 27409 | 2.12395 | 2.124 | |
| 46 Dibenzofuran | 168 | | 15.777 | 15.770 | (1.026) | 641379 | 4.64790 | 4.648 | |
| 47 4-Nitrophenol | 109 | | 15.600 | 15.592 | (1.014) | 59816 | 3.96568 | 3.966 | |
| 48 2,4-Dinitrotoluene | 165 | | 15.824 | 15.817 | (1.029) | 144262 | 4.51019 | 4.510 | |
| 50 Diethylphthalate | 149 | | 16.326 | 16.319 | (1.061) | 503887 | 5.20905 | 5.209 | |
| 49 Fluorene | 166 | | 16.489 | 16.481 | (1.072) | 511113 | 4.70796 | 4.708 | |
| 51 4-Chlorophenyl-phenylether | 204 | | 16.473 | 16.466 | (1.071) | 257762 | 4.99294 | 4.993 | |
| 52 4-Nitroaniline | 138 | | 16.566 | 16.566 | (1.077) | 106701 | 4.92532 | 4.925 | |
| 53 4,6-Dinitro-2-methylphenol | 198 | | 16.666 | 16.658 | (0.905) | 56867 | 3.51509 | 3.515 | |
| 54 N-Nitrosodiphenylamine | 169 | | 16.720 | 16.712 | (0.908) | 342454 | 4.80180 | 4.802 | |
| § 55 2,4,6-Tribromophenol | 330 | | Compound Not Detected. | | | | | | |
| 56 4-Bromophenyl-phenylether | 248 | | 17.475 | 17.476 | (0.949) | 150956 | 5.05964 | 5.060 | |
| 57 Hexachlorobenzene | 284 | | 17.800 | 17.793 | (0.966) | 143751 | 4.59553 | 4.596 | |
| 58 Pentachlorophenol | 266 | | 18.149 | 18.149 | (0.985) | 75635 | 4.05676 | 4.057 | |
| * 59 Phenanthrene-d10 | 188 | | 18.420 | 18.420 | (1.000) | 533431 | 4.00000 | | |
| 60 Phenanthrene | 178 | | 18.466 | 18.466 | (1.003) | 669357 | 4.60181 | 4.602 | |
| 61 Anthracene | 178 | | 18.559 | 18.559 | (1.008) | 581438 | 4.16715 | 4.167 | |
| 62 Carbazole | 167 | | 18.884 | 18.884 | (1.025) | 591382 | 4.72989 | 4.730 | |
| 63 Di-n-butylphthalate | 149 | | 19.665 | 19.666 | (1.068) | 830680 | 4.96738 | 4.967 | |
| 64 Fluoranthene | 202 | | 20.841 | 20.841 | (0.888) | 782432 | 4.47248 | 4.472 | |
| 65 Pyrene | 202 | | 21.267 | 21.267 | (0.907) | 778668 | 4.33892 | 4.339 | |
| § 66 Terphenyl-d14 | 244 | | Compound Not Detected. | | | | | | |
| 67 Butylbenzylphthalate | 149 | | 22.459 | 22.460 | (0.957) | 314007 | 4.83397 | 4.834 | |
| 68 Benzo(a)anthracene | 228 | | 23.427 | 23.419 | (0.999) | 714166 | 4.64722 | 4.647 | |
| * 69 Chrysene-d12 | 240 | | 23.458 | 23.450 | (1.000) | 435381 | 4.00000 | | |
| 70 3,3'-Dichlorobenzidine | 252 | | 23.373 | 23.373 | (0.996) | 483256 | 9.81738 | 9.817 | |
| 71 Chrysene | 228 | | 23.497 | 23.489 | (1.002) | 677151 | 4.51017 | 4.510 | |
| 72 bis(2-Ethylhexyl)phthalate | 149 | | 23.481 | 23.474 | (0.959) | 453669 | 4.67998 | 4.680 | |
| * 134 Di-n-octylphthalate-d4 | 153 | | 24.487 | 24.480 | (1.000) | 660827 | 4.00000 | | |
| 73 Di-n-octylphthalate | 149 | | 24.495 | 24.488 | (1.000) | 855562 | 4.94734 | 4.947 | |
| 74 Benzo(b)fluoranthene | 252 | | 25.370 | 25.362 | (0.969) | 737887 | 4.60200 | 4.602 (H) | |
| 75 Benzo(k)fluoranthene | 252 | | 25.416 | 25.409 | (0.970) | 797521 | 4.89839 | 4.898 | |
| 76 Benzo(a)pyrene | 252 | | 26.067 | 26.052 | (0.995) | 698616 | 4.87338 | 4.873 | |
| * 77 Perylene-d12 | 264 | | 26.191 | 26.183 | (1.000) | 494648 | 4.00000 | | |
| 78 Indeno(1,2,3-cd)pyrene | 276 | | 29.005 | 28.990 | (1.107) | 834672 | 4.57655 | 4.577 | |
| 79 Dibenzo(a,h)anthracene | 278 | | 29.021 | 29.005 | (1.108) | 688433 | 4.54663 | 4.547 | |
| 80 Benzo(g,h,i)perylene | 276 | | 29.852 | 29.821 | (1.140) | 724463 | 4.59000 | 4.590 | |
| 90 N-Nitrosodimethylamine | 74 | | 4.928 | 4.936 | (0.530) | 155126 | 5.19378 | 5.194 | |
| 91 Aniline | 93 | | Compound Not Detected. | | | | | | |
| 93 Benzidine | 184 | | 21.073 | 21.066 | (0.898) | 314737 | 4.37985 | 4.380 | |
| 103 Pyridine | 79 | | 4.959 | 4.997 | (0.533) | 244801 | 5.33678 | 5.337 | |
| 105 1-methylnaphthalene | 142 | | 13.425 | 13.425 | (1.140) | 487498 | 4.87520 | 4.875 | |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77 | | 16.797 | 16.789 | (1.092) | 533524 | 4.93744 | 4.937 | |

| Compounds | QUANT SIG | | | | | | | CONCENTRATIONS | |
|-------------------------------|-----------|--|--------|--------|---------|----------|----------------------|------------------|--|
| | MASS | | RT | EXP RT | REL RT | RESPONSE | ON-COLUMN (ug/mL) | FINAL (ug/mL) | |
| ===== | ===== | | ===== | ===== | ===== | ===== | ===== | ===== | |
| 187 Total Benzofluoranthenes | 252 | | 25.370 | 25.409 | (0.969) | 1468165 | 9.48349 | 9.483 | |
| 120 2,3,4,6-Tetrachlorophenol | 232 | | 16.102 | 16.103 | (1.047) | 124685 | 3.97959 | 3.980 | |

QC Flag Legend

H - Operator selected an alternate compound hit.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 15-MAR-2023
 Lab File ID: NT10031511.D Calibration Time: 21:50
 Lab Smp Id: SLC0228-SCV1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt10.i\20230315.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|--------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 171542 | 85771 | 343084 | 154809 | -9.75 |
| 27 Naphthalene-d8 | 624466 | 312233 | 1248932 | 570882 | -8.58 |
| 42 Acenaphthene-d10 | 337226 | 168613 | 674452 | 303490 | -10.00 |
| 59 Phenanthrene-d10 | 572849 | 286425 | 1145698 | 533431 | -6.88 |
| 69 Chrysene-d12 | 347068 | 173534 | 694136 | 435381 | 25.45 |
| 134 Di-n-octylphthala | 500317 | 250159 | 1000634 | 660827 | 32.08 |
| 77 Perylene-d12 | 421549 | 210775 | 843098 | 494648 | 17.34 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 9.30 | 8.80 | 9.80 | 9.30 | -0.00 |
| 27 Naphthalene-d8 | 11.78 | 11.28 | 12.28 | 11.78 | 0.01 |
| 42 Acenaphthene-d10 | 15.38 | 14.88 | 15.88 | 15.38 | 0.00 |
| 59 Phenanthrene-d10 | 18.42 | 17.92 | 18.92 | 18.42 | 0.00 |
| 69 Chrysene-d12 | 23.45 | 22.95 | 23.95 | 23.46 | 0.04 |
| 134 Di-n-octylphthala | 24.48 | 23.98 | 24.98 | 24.49 | 0.03 |
| 77 Perylene-d12 | 26.18 | 25.68 | 26.68 | 26.19 | 0.03 |

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

REVIEW SUMMARY FOR FILE - NT10031511.D

Lab ID: SLC0228-SCV1
nt10.i, 20230315.b\ABN.m, 16-MAR-2023 02:16

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

** FIRST SURROGATE NOT FOUND. ICAL Check not performed **

RRT CHECK

| RRT | CCV RRT | DELTA | COMPOUND |
|-------|---------|--------|--------------|
| 0.952 | 0.000 | 0.9524 | Benzoic acid |

RRT check based on Ccal File: NT10031508.D

On Column LOD for nt10.i, 20230315.b\ABN.m, ICAL.sub = 0.0000

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



**SECOND-SOURCE
CALIBRATION VERIFICATION**

EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Calibration: GC00033

Laboratory ID: SLB0374-SCV1

Sequence: SLB0374

Standard ID: K010066

| ANALYTE | EXPECTED (ug/mL) | FOUND (ug/mL) | % DRIFT | QC LIMIT |
|------------------------------|---------------------|------------------|---------|----------|
| Phenol | 5.0000 | 3.9 | -21.3 * | 20.00 |
| bis(2-chloroethyl) ether | 5.0000 | 5.2 | 4.7 | 20.00 |
| 2-Chlorophenol | 5.0000 | 4.6 | -7.4 | 20.00 |
| 1,3-Dichlorobenzene | 5.0000 | 4.8 | -4.1 | 20.00 |
| 1,4-Dichlorobenzene | 5.0000 | 4.8 | -4.0 | 20.00 |
| 1,2-Dichlorobenzene | 5.0000 | 4.8 | -3.9 | 20.00 |
| Benzyl Alcohol | 5.0000 | 4.3 | -13.9 | 20.00 |
| 2,2'-Oxybis(1-chloropropane) | 5.0000 | 5.5 | 10.2 | 20.00 |
| 2-Methylphenol | 5.0000 | 4.4 | -11.9 | 20.00 |
| Hexachloroethane | 5.0000 | 5.1 | 1.8 | 20.00 |
| N-Nitroso-di-n-Propylamine | 5.0000 | 5.1 | 2.8 | 20.00 |
| 4-Methylphenol | 5.0000 | 4.2 | -15.6 | 20.00 |
| Nitrobenzene | 5.0000 | 5.1 | 1.2 | 20.00 |
| Isophorone | 5.0000 | 6.4 | 28.2 * | 20.00 |
| 2-Nitrophenol | 5.0000 | 4.1 | -17.5 | 20.00 |
| 2,4-Dimethylphenol | 5.0000 | 3.9 | -22.2 * | 20.00 |
| Bis(2-Chloroethoxy)methane | 5.0000 | 5.8 | 15.3 | 20.00 |
| 2,4-Dichlorophenol | 5.0000 | 4.8 | -4.3 | 20.00 |
| 1,2,4-Trichlorobenzene | 5.0000 | 4.8 | -4.2 | 20.00 |
| Naphthalene | 5.0000 | 4.8 | -4.7 | 20.00 |
| Benzoic acid | 10.0000 | 4.1 | -59.3 * | 20.00 |
| 4-Chloroaniline | 5.0000 | 3.9 | -22.1 * | 20.00 |
| Hexachlorobutadiene | 5.0000 | 4.8 | -3.9 | 20.00 |
| 4-Chloro-3-Methylphenol | 5.0000 | 4.9 | -2.8 | 20.00 |
| 2-Methylnaphthalene | 5.0000 | 4.6 | -7.5 | 20.00 |
| Hexachlorocyclopentadiene | 5.0000 | 4.5 | -9.3 | 20.00 |
| 2,4,6-Trichlorophenol | 5.0000 | 4.8 | -4.2 | 20.00 |
| 2,4,5-Trichlorophenol | 5.0000 | 4.7 | -6.6 | 20.00 |
| 2-Chloronaphthalene | 5.0000 | 4.9 | -1.8 | 20.00 |
| 2-Nitroaniline | 5.0000 | 5.0 | -0.4 | 20.00 |
| Acenaphthylene | 5.0000 | 5.0 | -0.5 | 20.00 |
| Dimethylphthalate | 5.0000 | 5.2 | 4.1 | 20.00 |



**SECOND-SOURCE
CALIBRATION VERIFICATION**

EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Calibration: GC00033

Laboratory ID: SLB0374-SCV1

Sequence: SLB0374

Standard ID: K010066

| | | | | |
|----------------------------|--------|------|---------|-------|
| 2,6-Dinitrotoluene | 5.0000 | 5.2 | 4.5 | 20.00 |
| Acenaphthene | 5.0000 | 4.8 | -4.7 | 20.00 |
| 3-Nitroaniline | 5.0000 | 4.9 | -2.6 | 20.00 |
| 2,4-Dinitrophenol | 5.0000 | 1.0 | -80.4 * | 20.00 |
| Dibenzofuran | 5.0000 | 4.7 | -5.6 | 20.00 |
| 4-Nitrophenol | 5.0000 | 3.9 | -21.3 * | 20.00 |
| 2,4-Dinitrotoluene | 5.0000 | 4.9 | -1.2 | 20.00 |
| Fluorene | 5.0000 | 4.8 | -4.1 | 20.00 |
| 4-Chlorophenylphenyl ether | 5.0000 | 4.9 | -2.3 | 20.00 |
| Diethyl phthalate | 5.0000 | 5.4 | 8.4 | 20.00 |
| 4-Nitroaniline | 5.0000 | 4.6 | -8.8 | 20.00 |
| 4,6-Dinitro-2-methylphenol | 5.0000 | 3.2 | -35.3 * | 20.00 |
| N-Nitrosodiphenylamine | 5.0000 | 5.0 | -0.4 | 20.00 |
| 4-Bromophenyl phenyl ether | 5.0000 | 5.2 | 3.0 | 20.00 |
| Hexachlorobenzene | 5.0000 | 4.8 | -4.2 | 20.00 |
| Pentachlorophenol | 5.0000 | 3.5 | -29.5 * | 20.00 |
| Phenanthrene | 5.0000 | 4.6 | -7.7 | 20.00 |
| Anthracene | 5.0000 | 4.2 | -15.5 | 20.00 |
| Carbazole | 5.0000 | 4.8 | -4.5 | 20.00 |
| Di-n-Butylphthalate | 5.0000 | 4.8 | -3.6 | 20.00 |
| Fluoranthene | 5.0000 | 5.1 | 2.1 | 20.00 |
| Pyrene | 5.0000 | 5.0 | -0.9 | 20.00 |
| Butylbenzylphthalate | 5.0000 | 5.0 | -0.7 | 20.00 |
| Benzo(a)anthracene | 5.0000 | 4.9 | -1.7 | 20.00 |
| 3,3'-Dichlorobenzidine | 10.000 | 10.3 | 2.9 | 20.00 |
| Chrysene | 5.0000 | 4.6 | -8.9 | 20.00 |
| bis(2-Ethylhexyl)phthalate | 5.0000 | 5.3 | 5.5 | 20.00 |
| Di-n-Octylphthalate | 5.0000 | 5.2 | 3.7 | 20.00 |
| Benzofluoranthenes, Total | 10.000 | 9.6 | -4.4 | 20.00 |
| Benzo(a)pyrene | 5.0000 | 4.9 | -2.3 | 20.00 |
| Indeno(1,2,3-cd)pyrene | 5.0000 | 4.9 | -2.2 | 20.00 |
| Dibenzo(a,h)anthracene | 5.0000 | 4.9 | -1.9 | 20.00 |
| Benzo(g,h,i)perylene | 5.0000 | 4.9 | -2.8 | 20.00 |
| 1-Methylnaphthalene | 5.0000 | 4.9 | -2.6 | 20.00 |

* Values outside of QC limits

Data File: \\target\share\chem3\nt14,1\20230228,16\NT1423022812.D

Date: 28-FEB-2023 17:41

Client ID:

Sample Info: SLB0374-SCV1

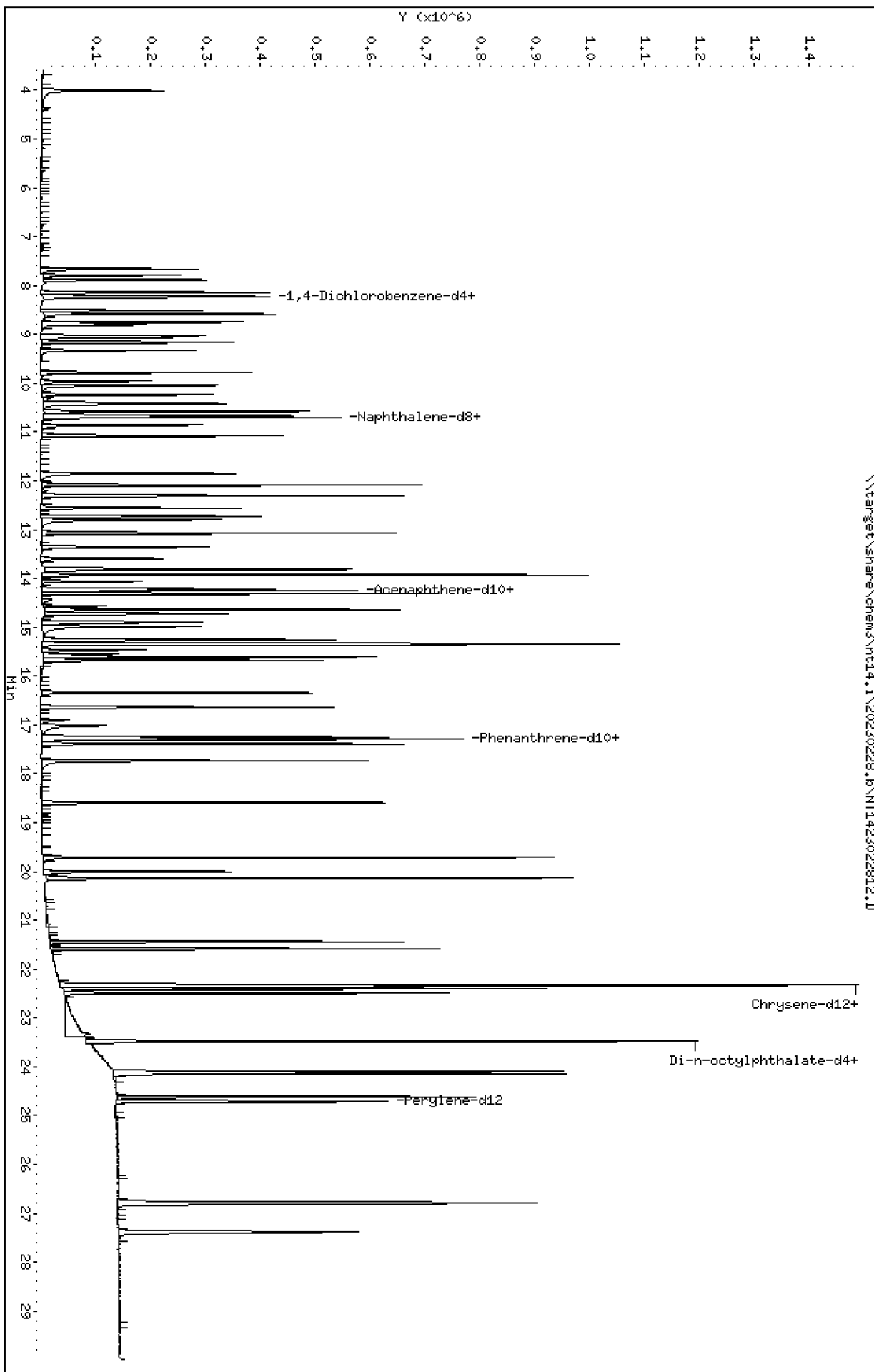
Column phase: ZB-5msi

Instrument: nt14,1

Operator: JGR

Column diameter: 0.25

\\target\share\chem3\nt14,1\20230228,16\NT1423022812.D



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

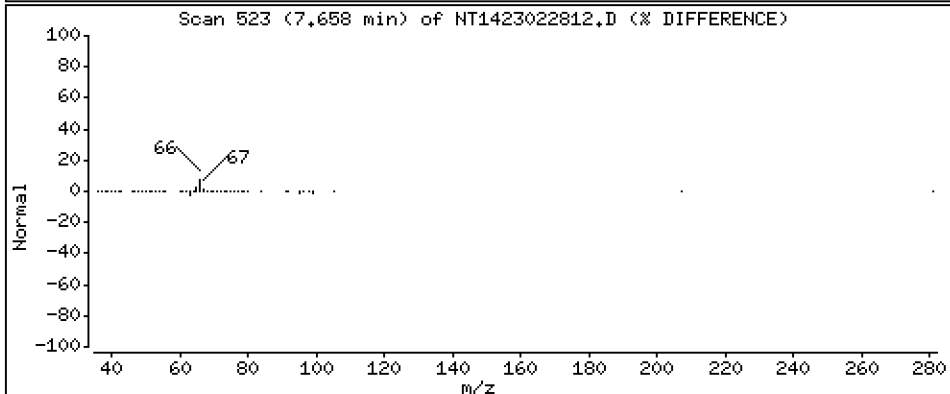
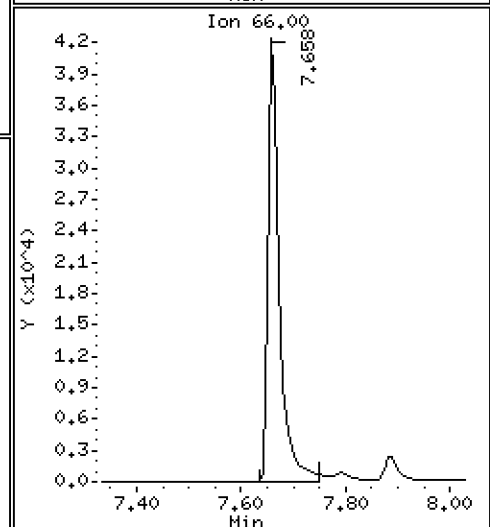
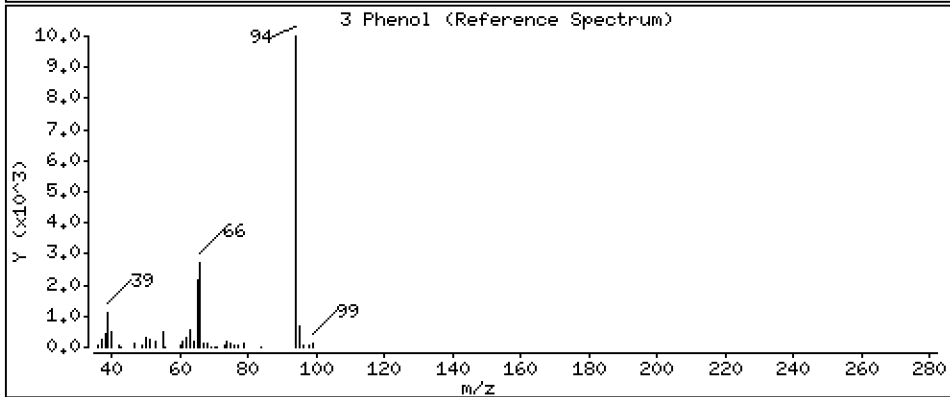
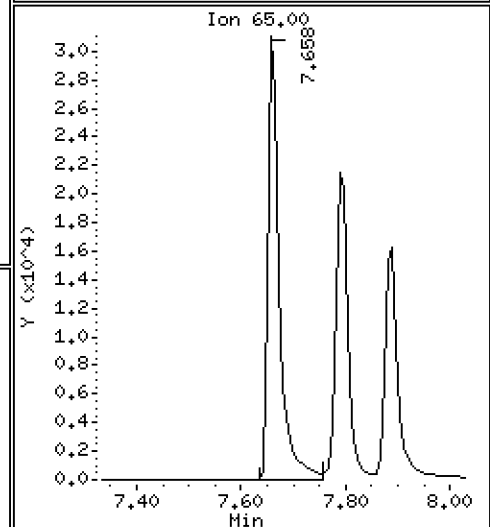
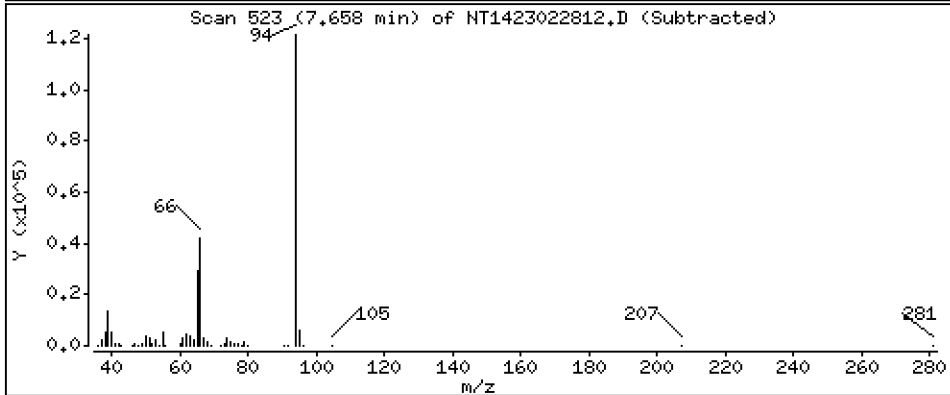
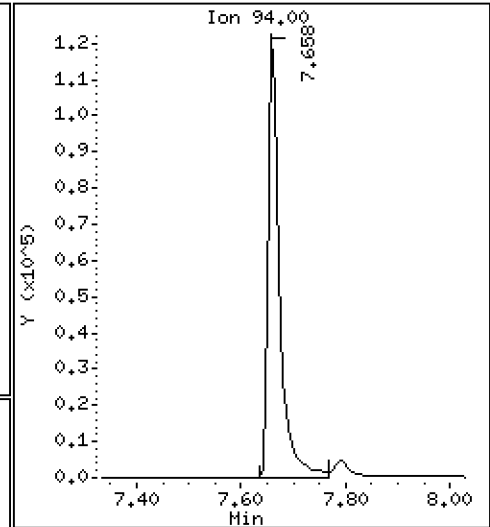
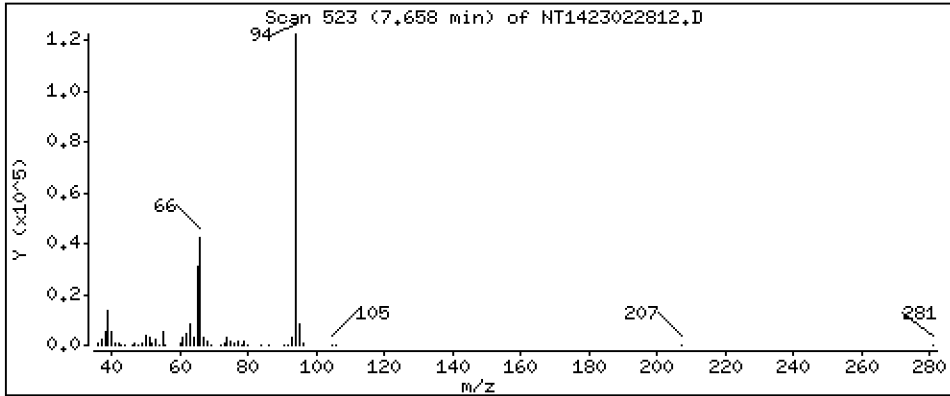
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 3,935 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

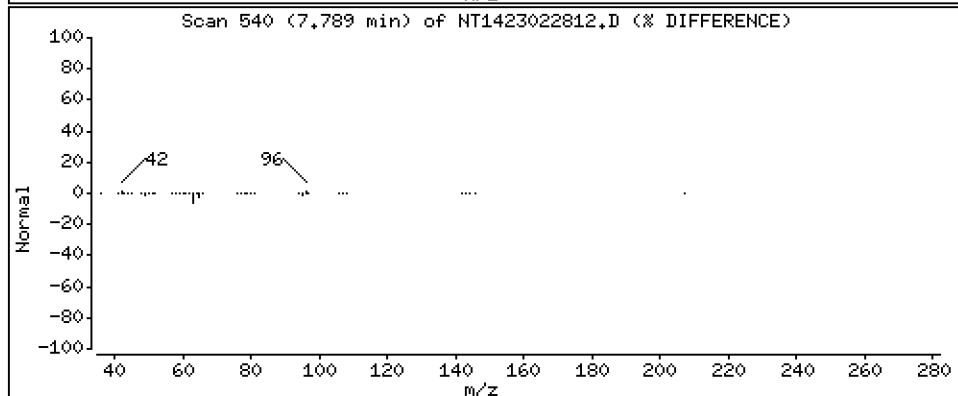
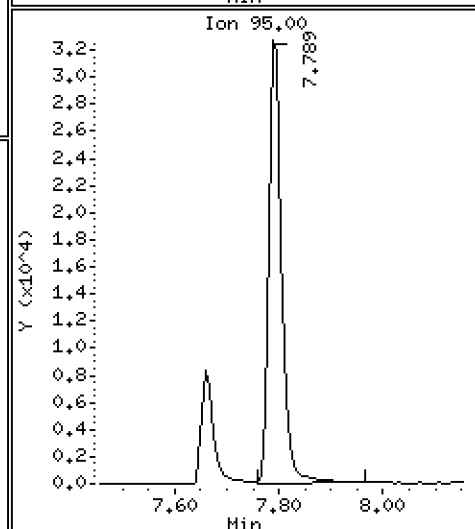
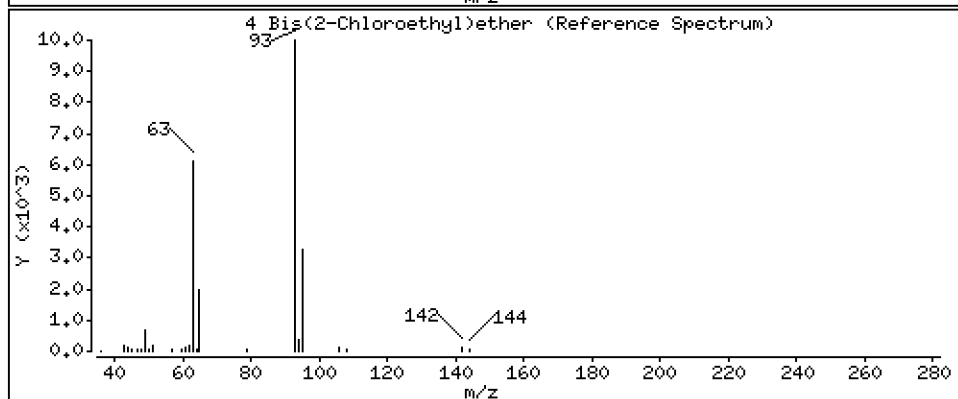
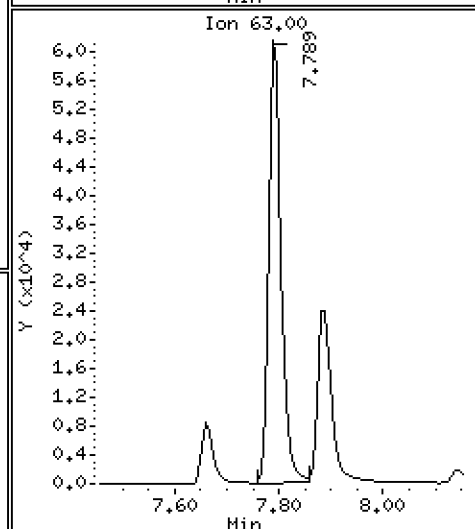
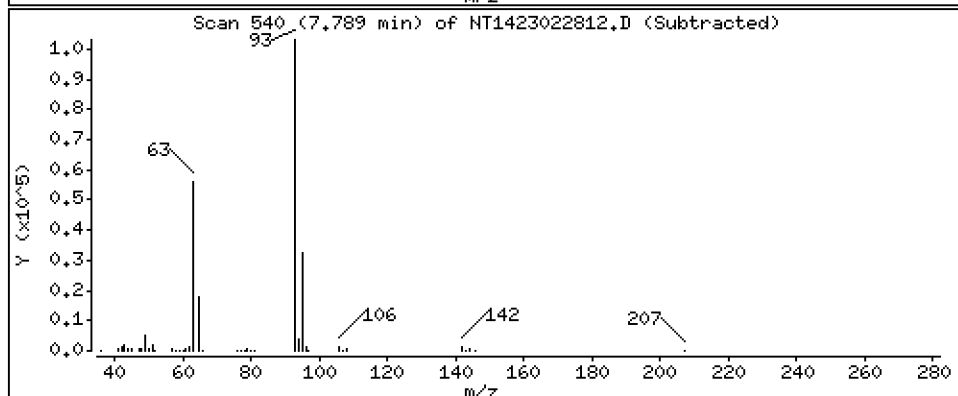
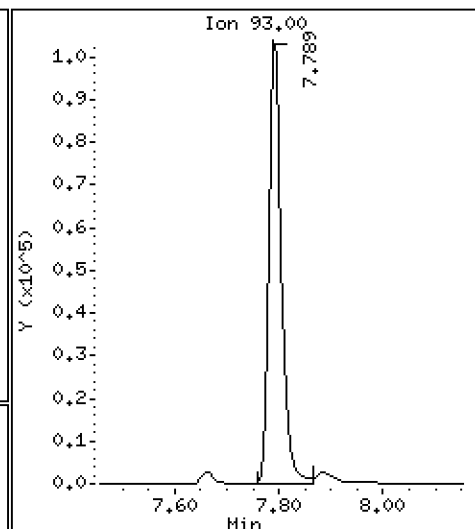
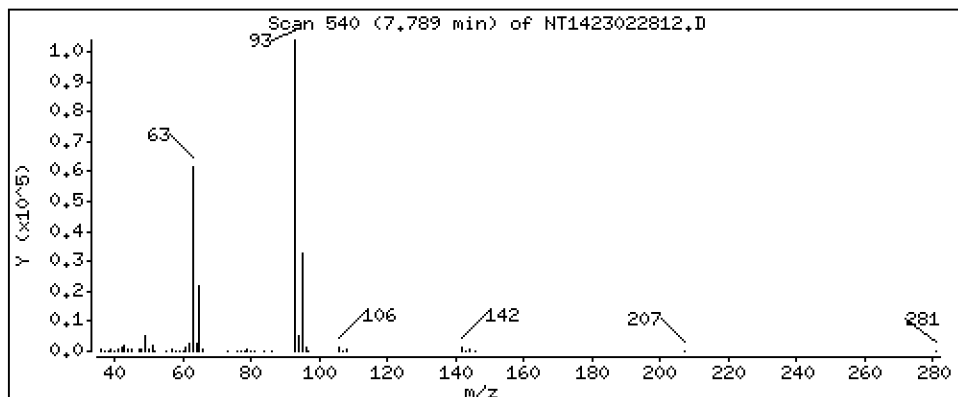
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

4 Bis(2-Chloroethyl)ether

Concentration: 5.224 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

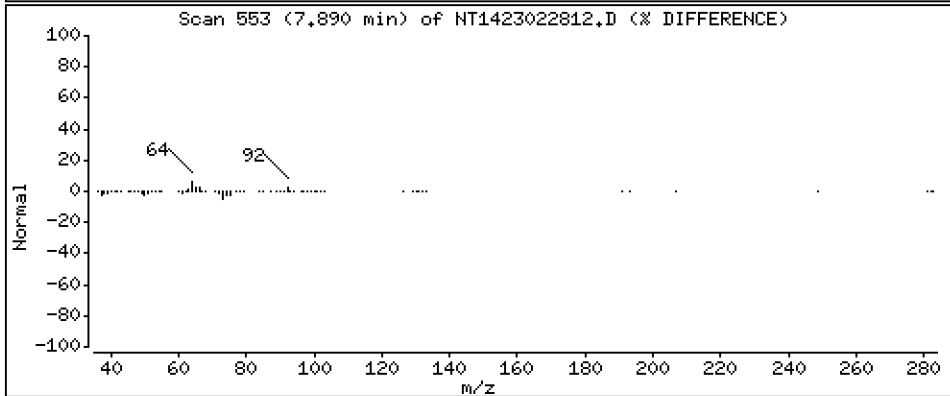
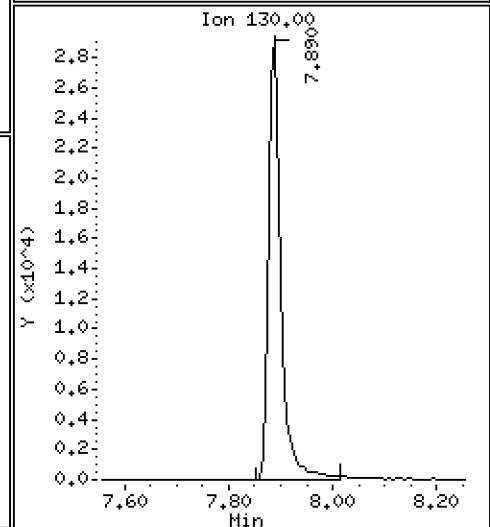
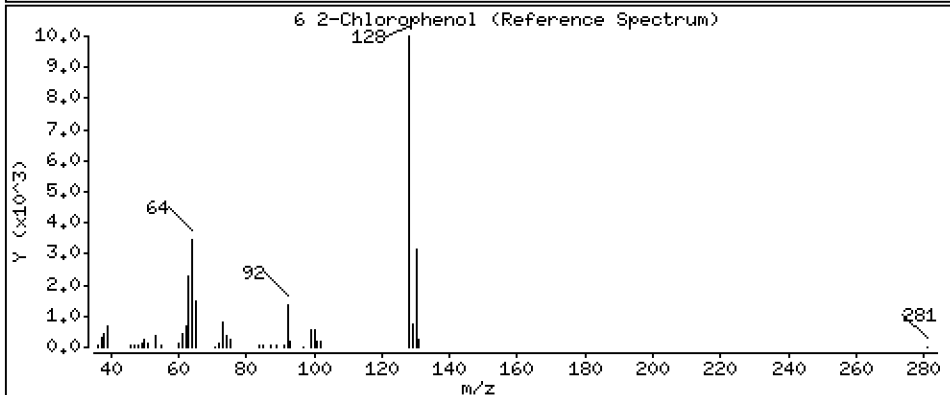
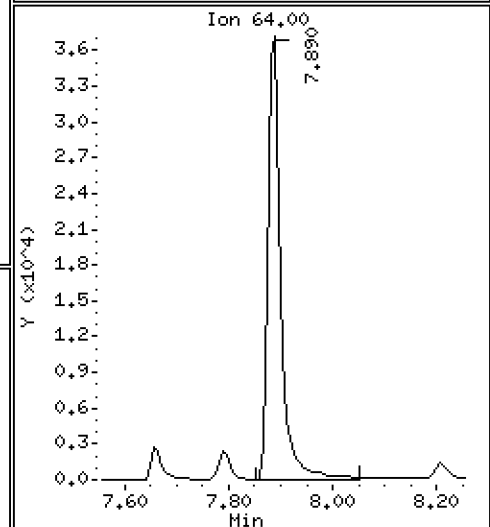
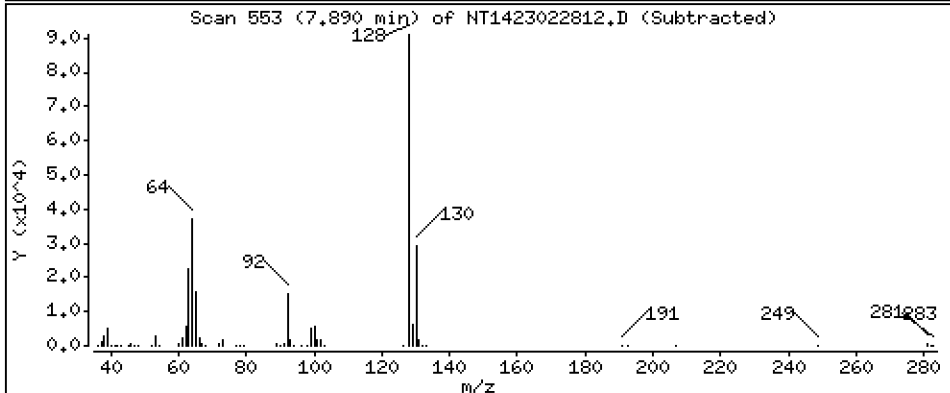
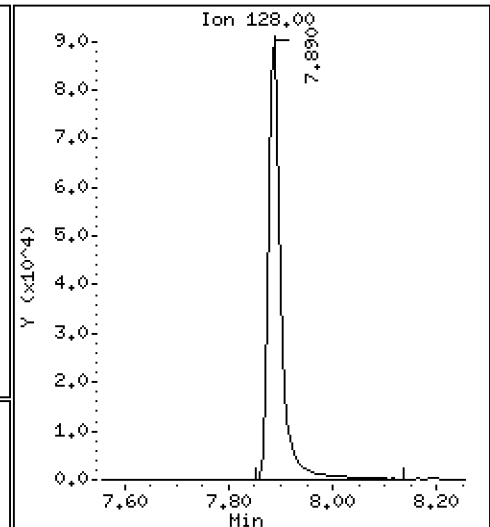
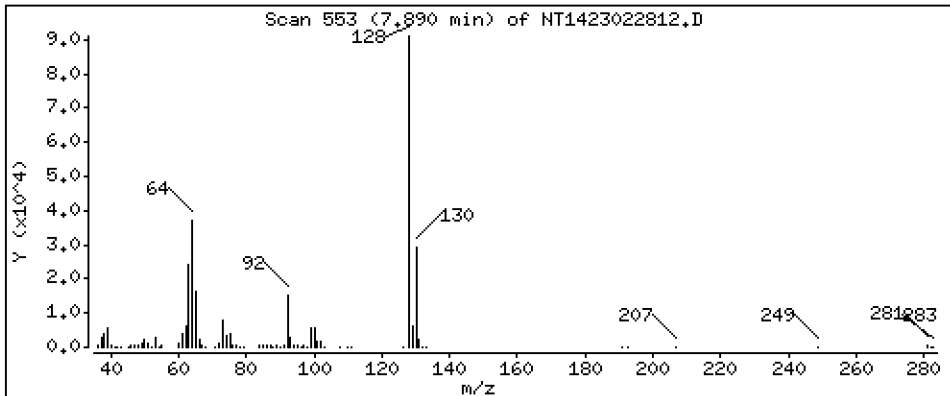
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 4,632 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

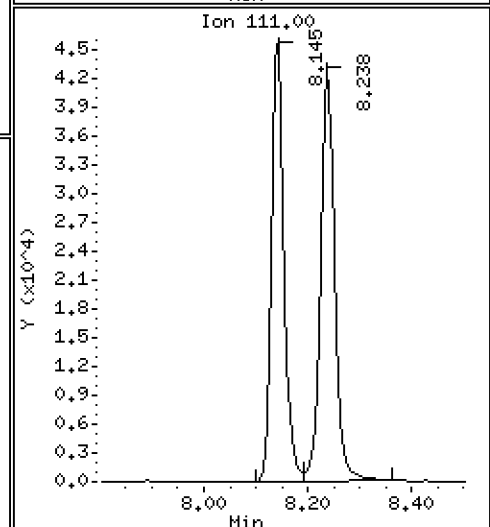
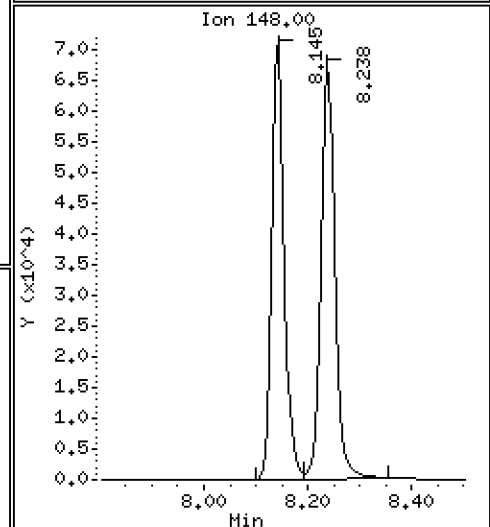
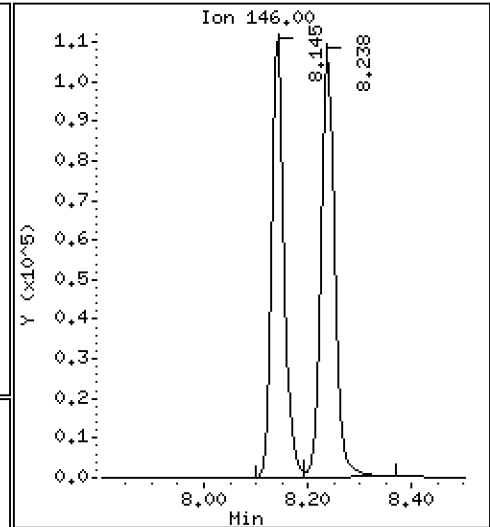
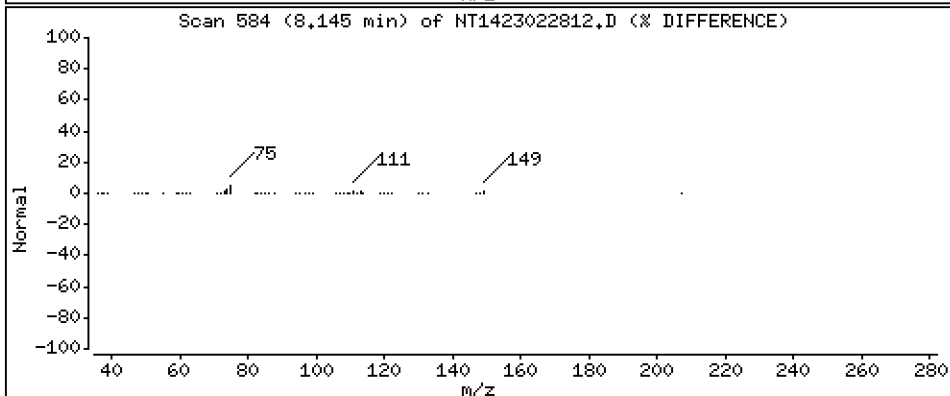
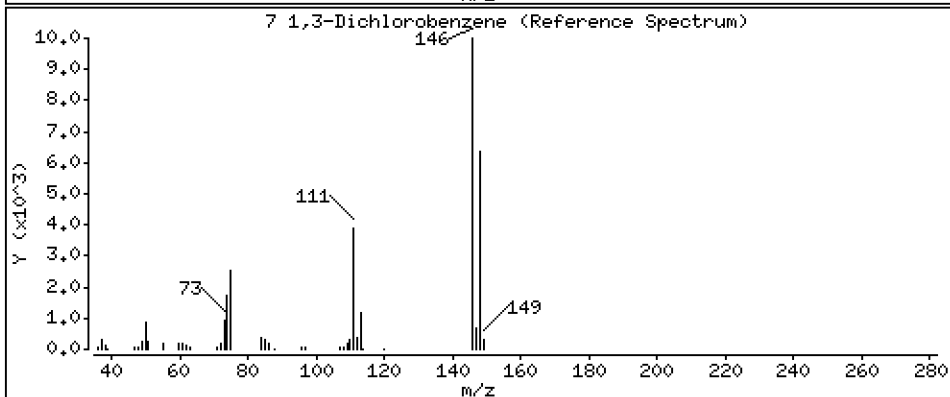
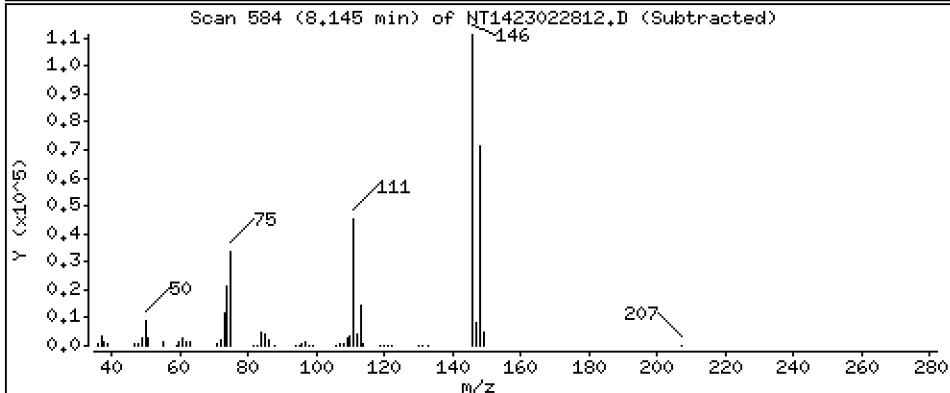
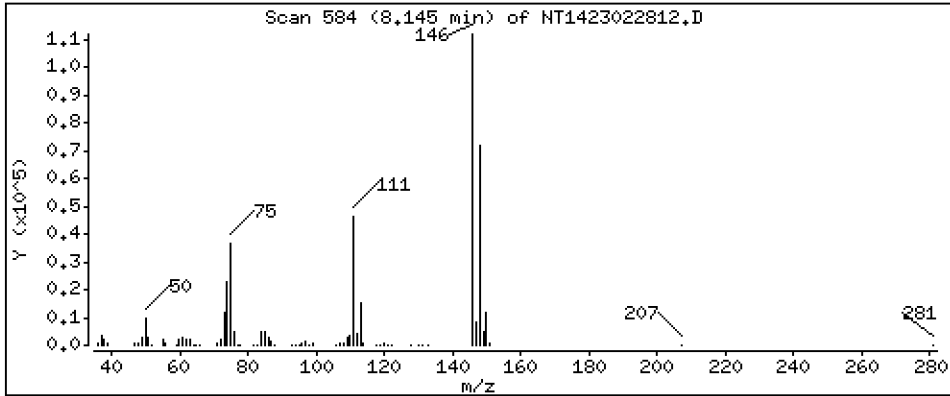
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

7 1,3-Dichlorobenzene

Concentration: 4,795 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

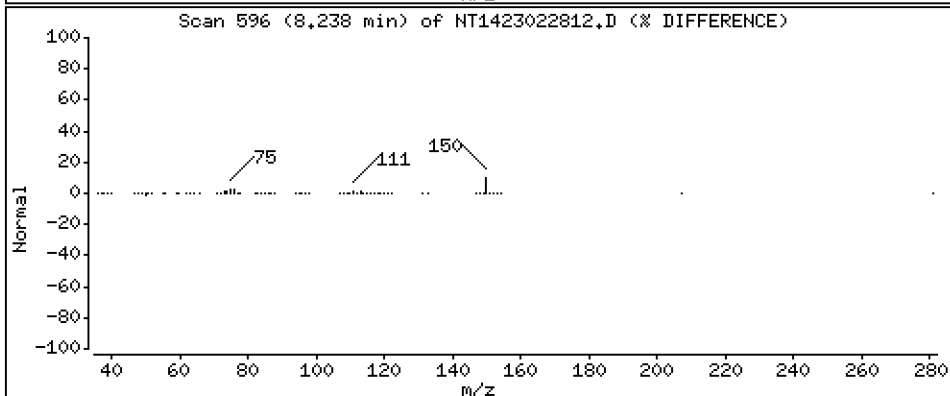
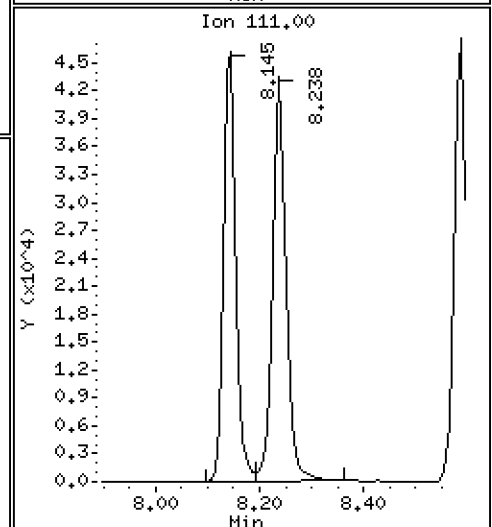
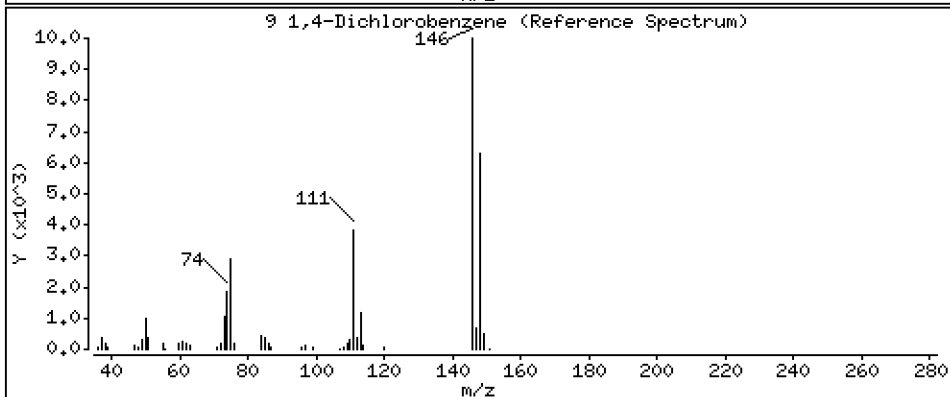
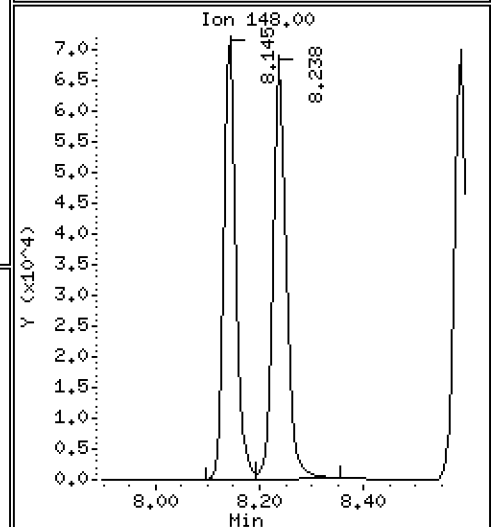
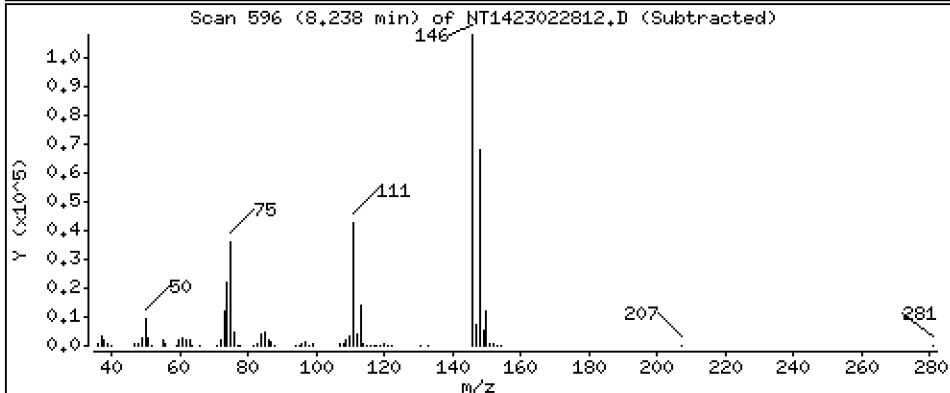
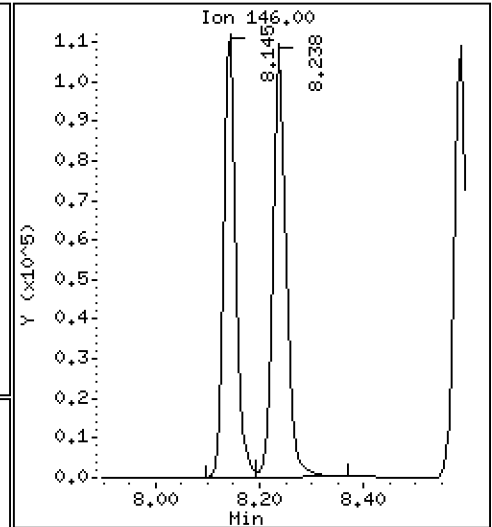
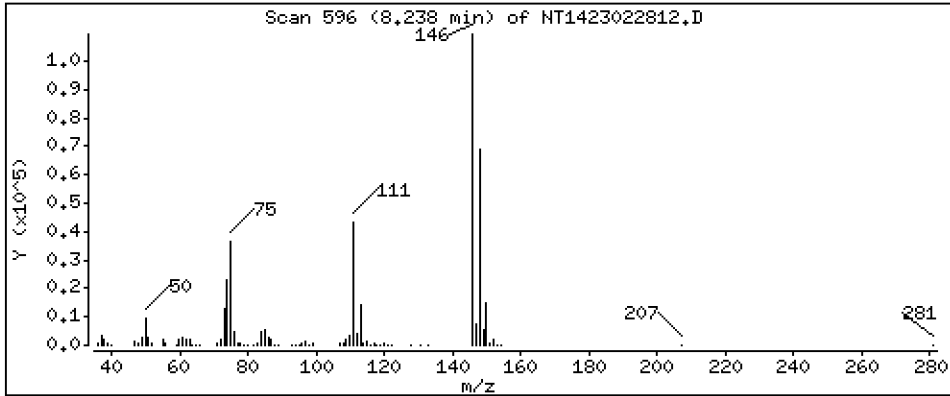
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 4,800 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

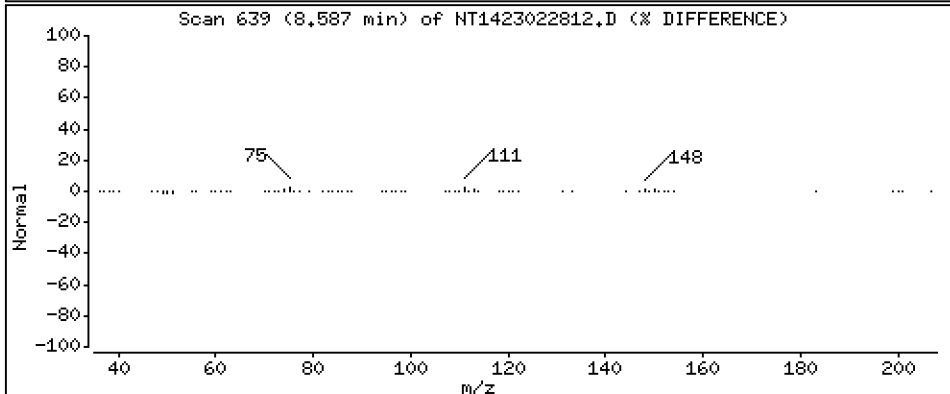
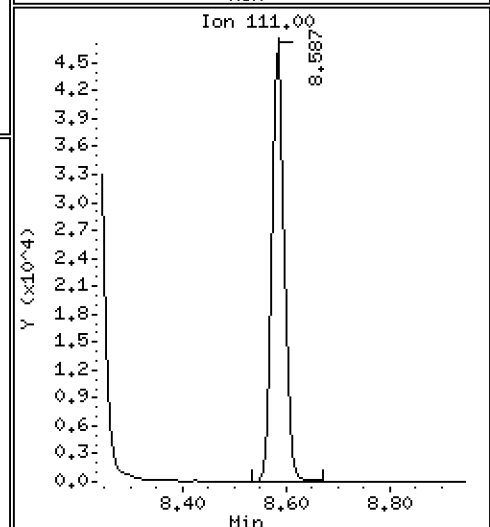
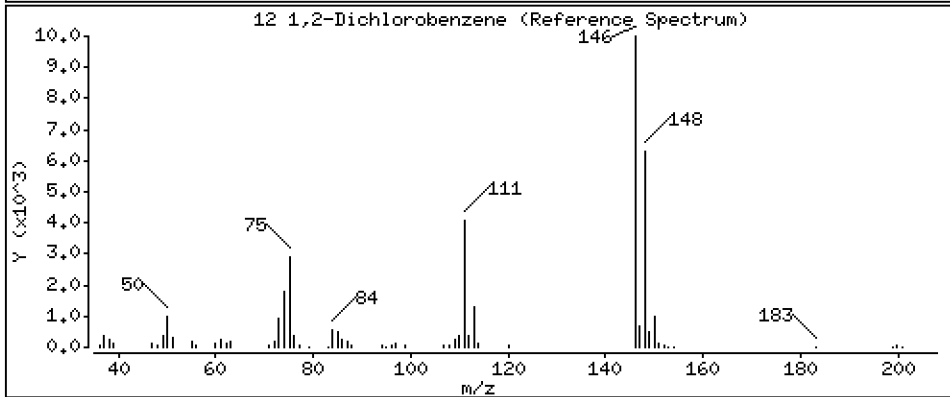
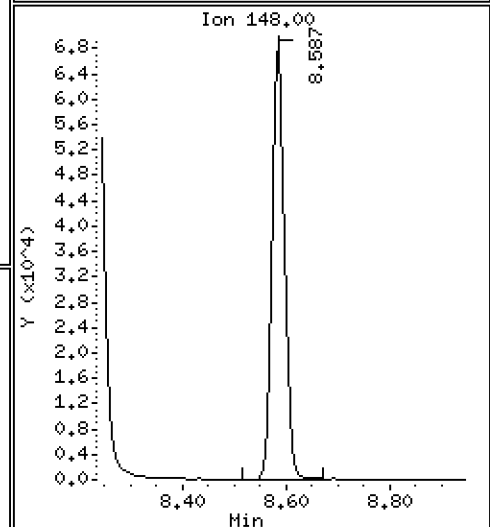
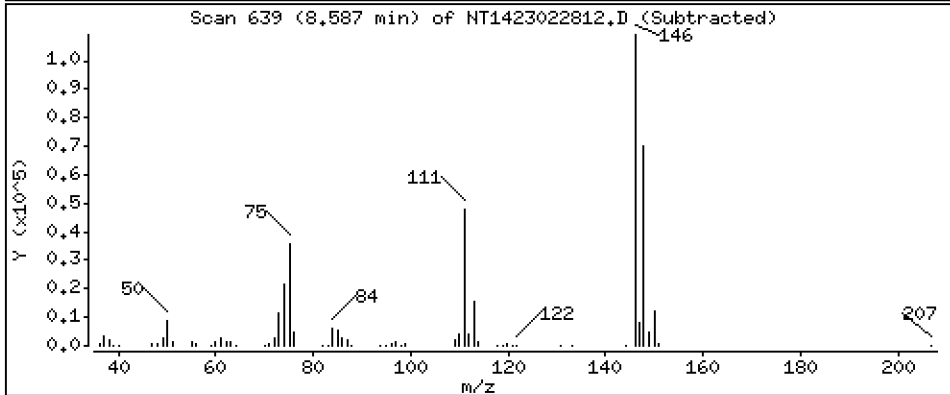
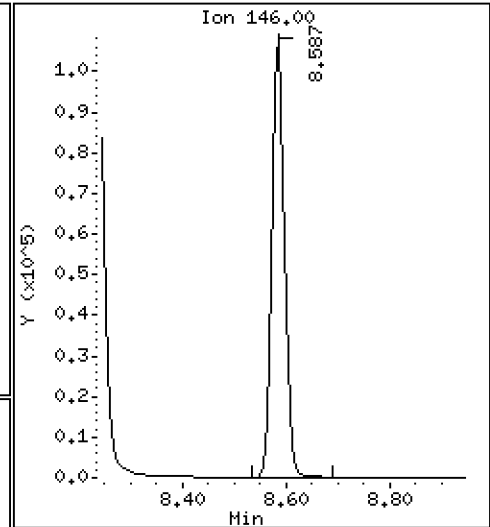
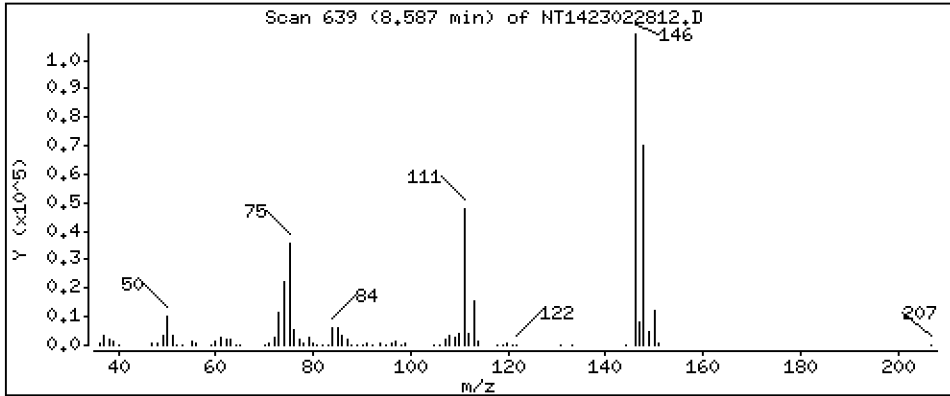
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

12 1,2-Dichlorobenzene

Concentration: 4.807 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

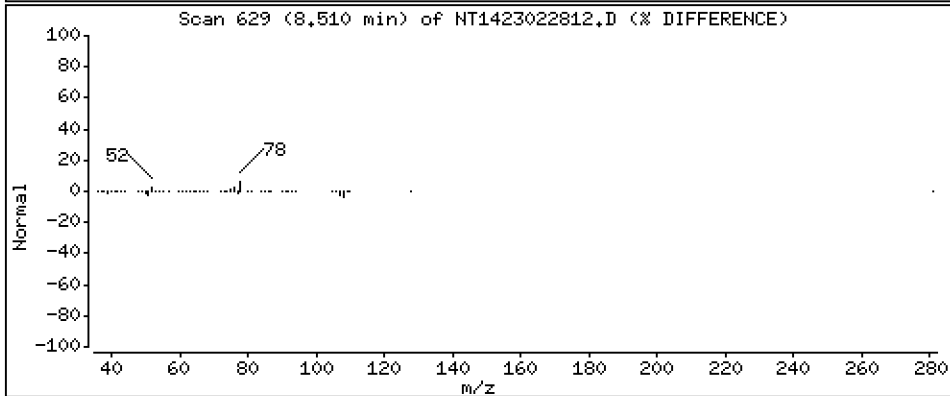
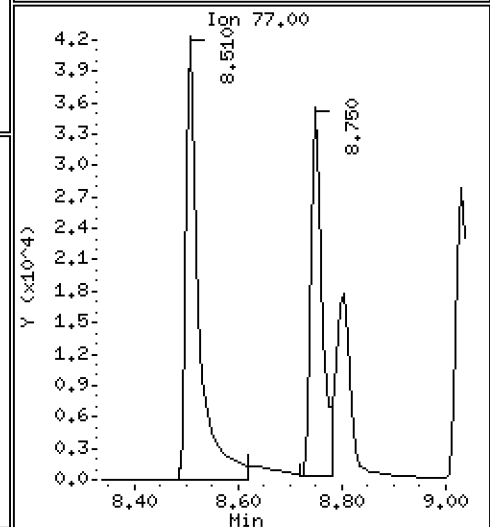
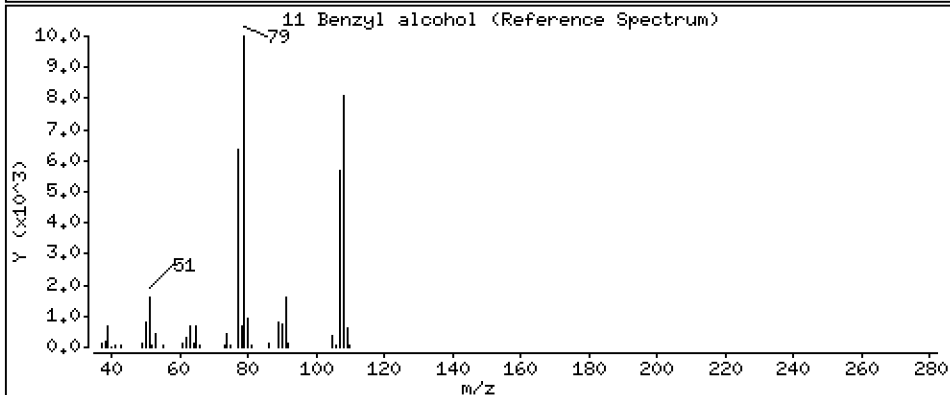
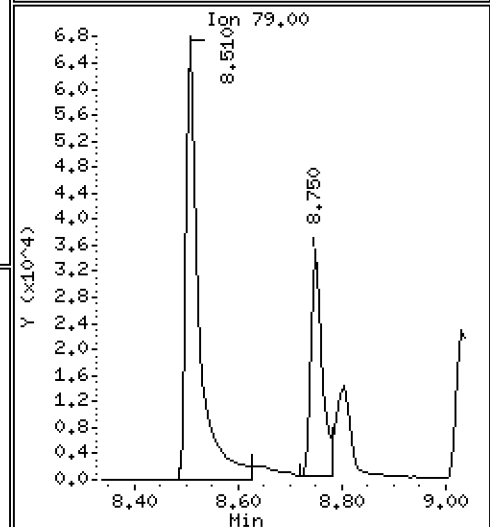
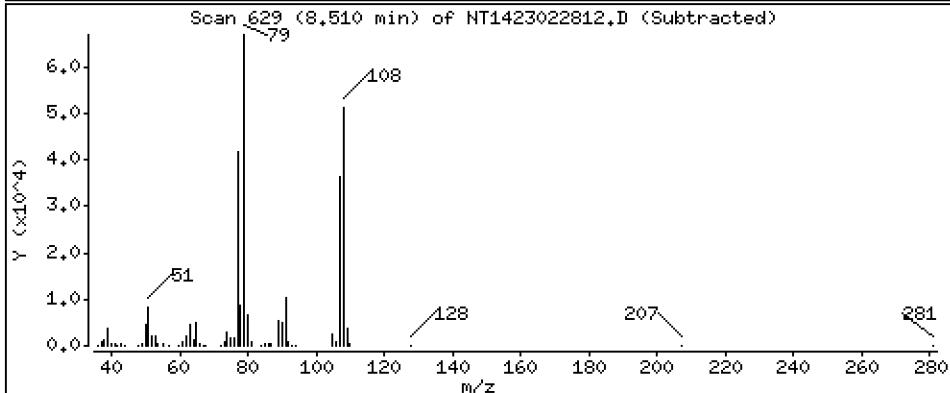
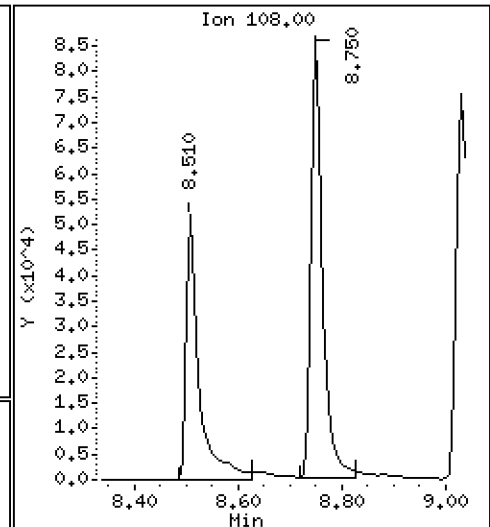
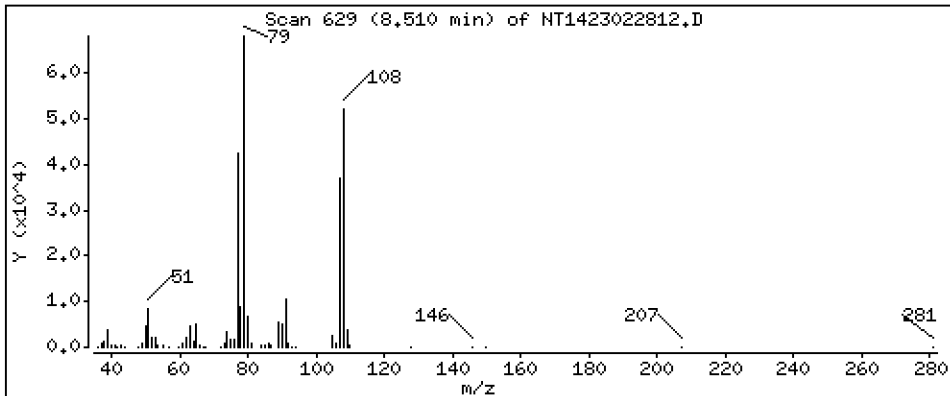
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 4.304 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

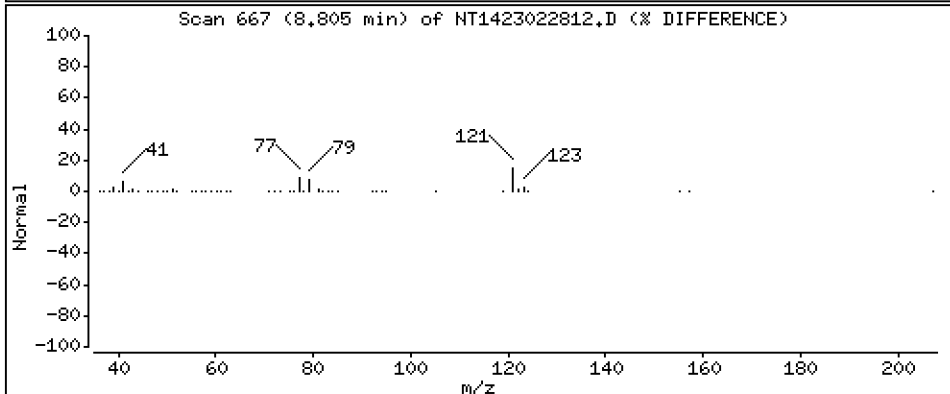
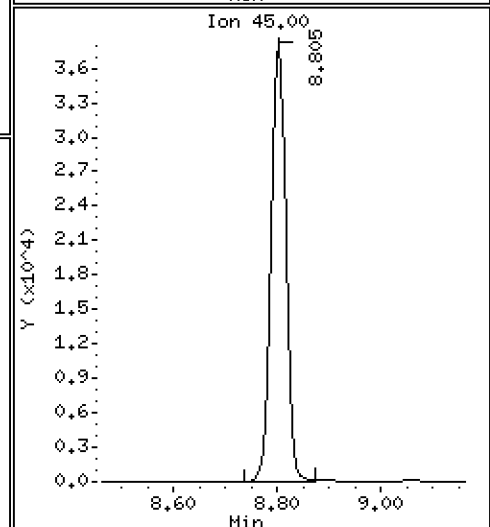
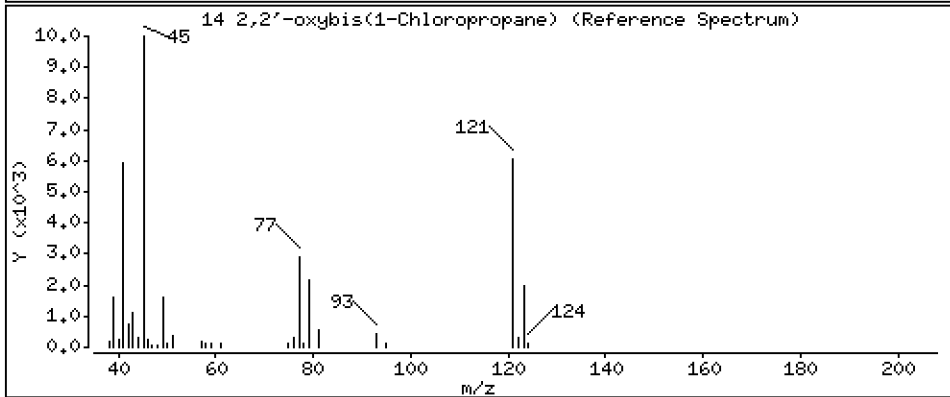
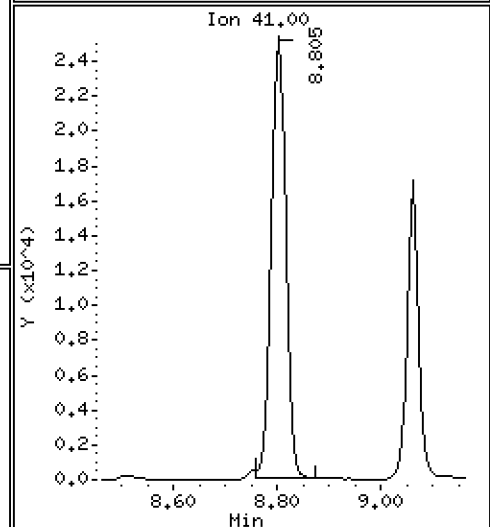
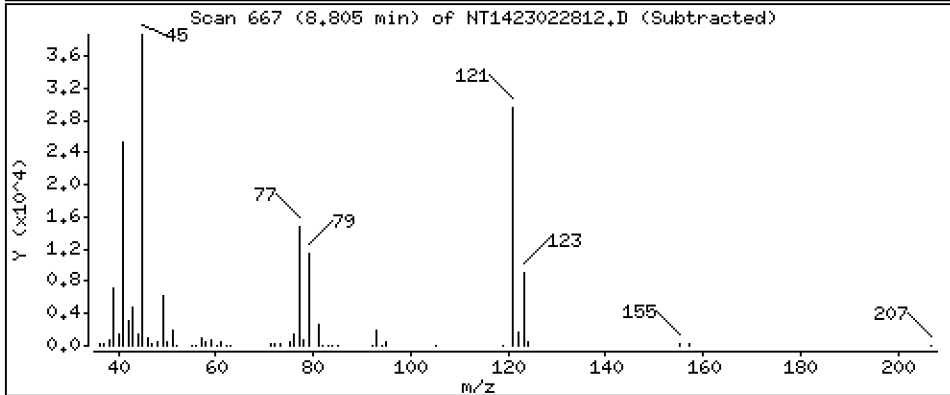
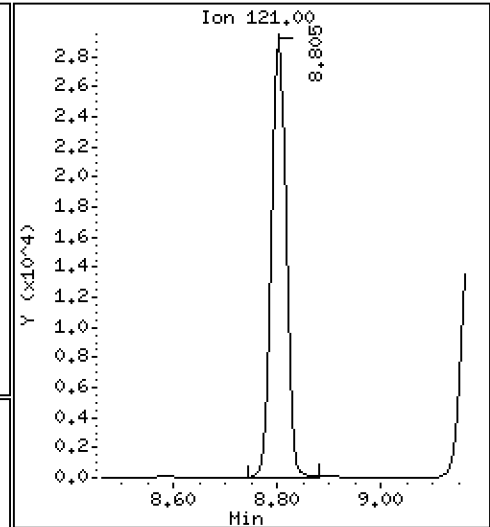
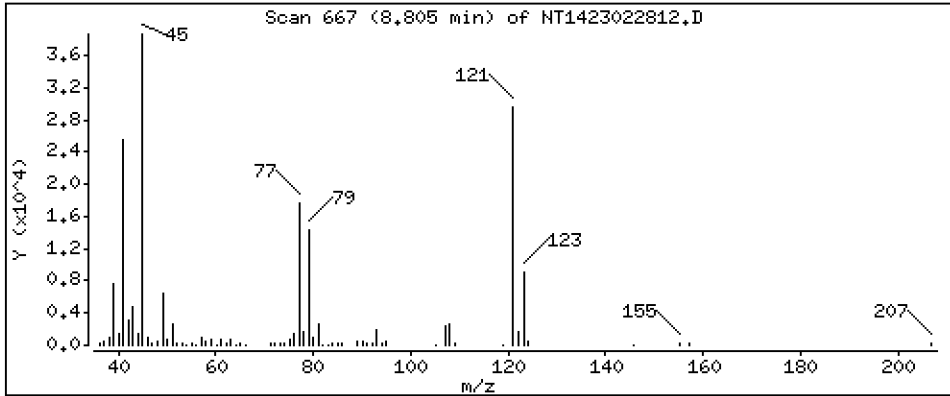
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 5,510 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

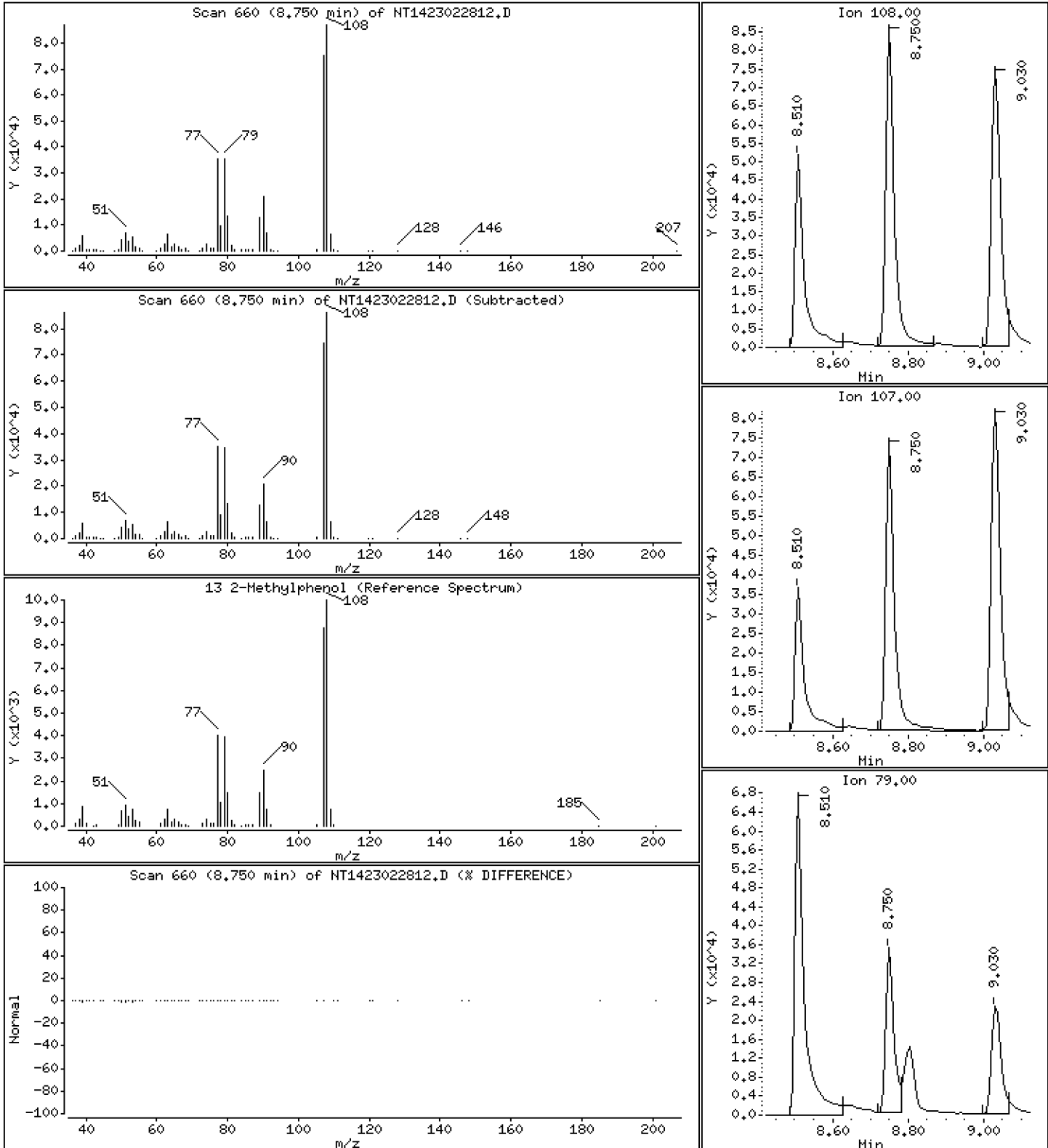
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

13 2-Methylphenol

Concentration: 4.407 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

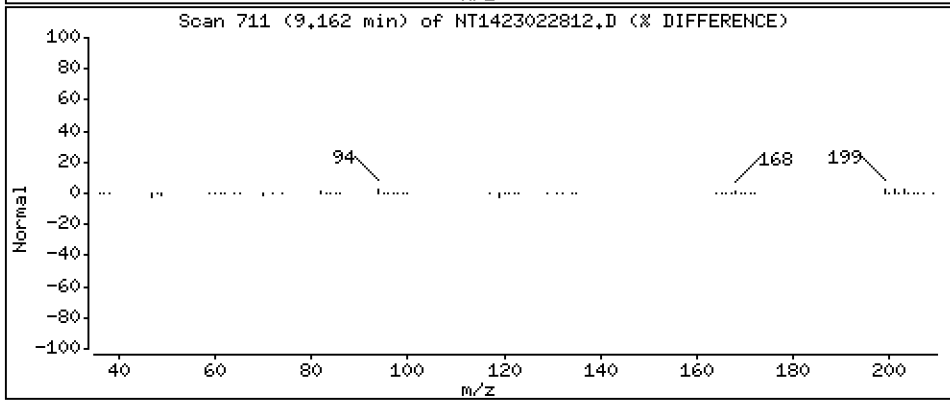
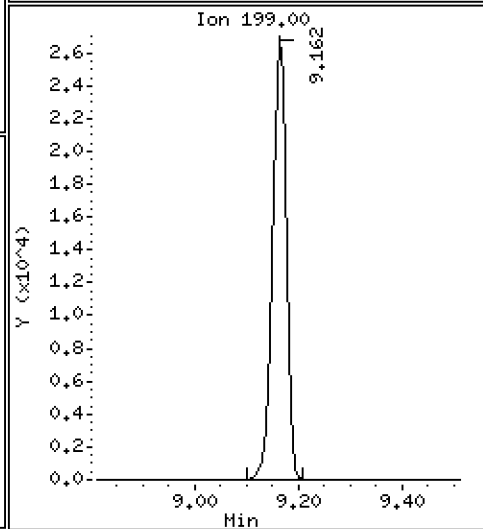
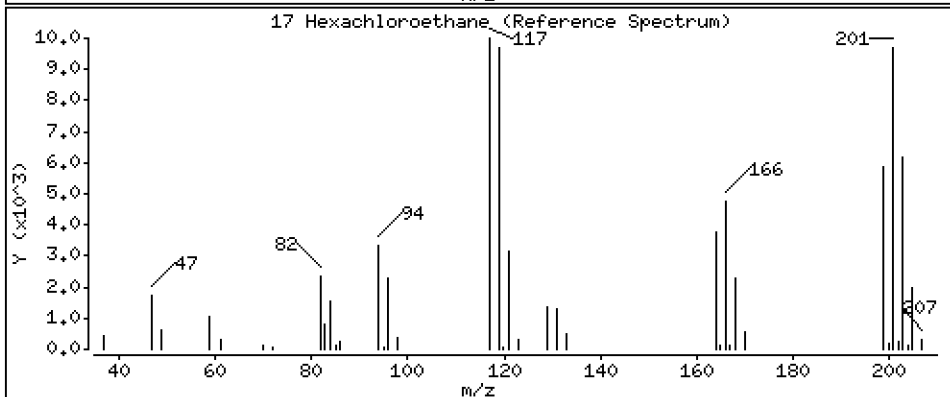
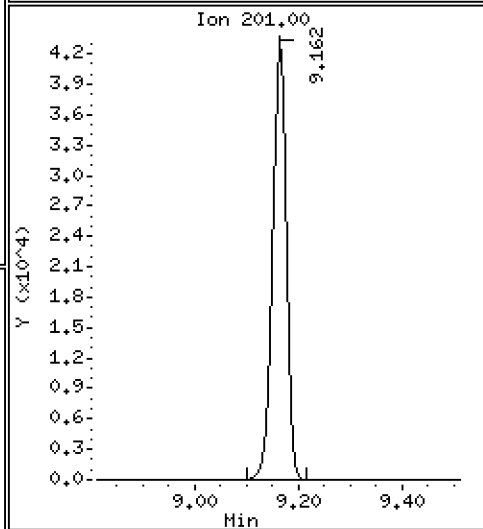
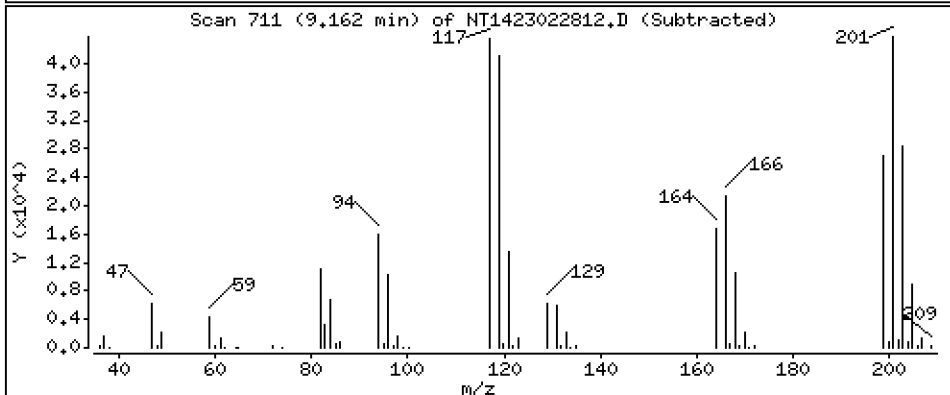
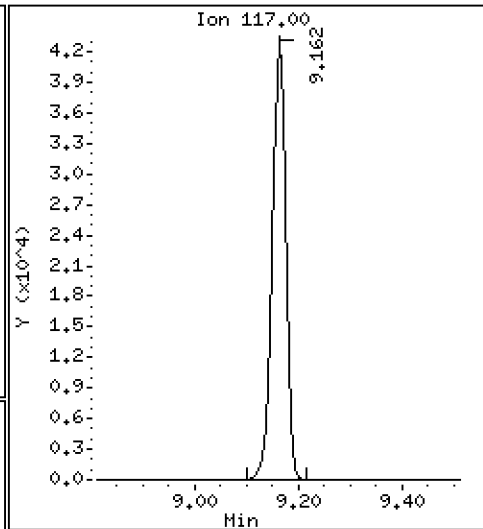
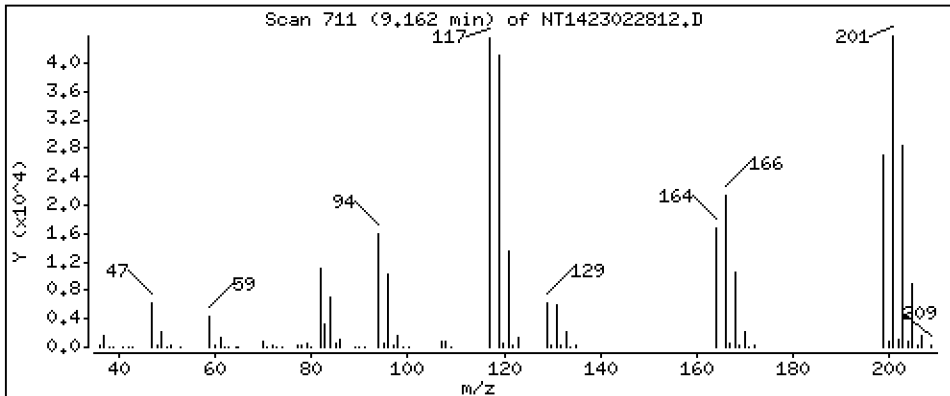
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

17 Hexachloroethane

Concentration: 5.089 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

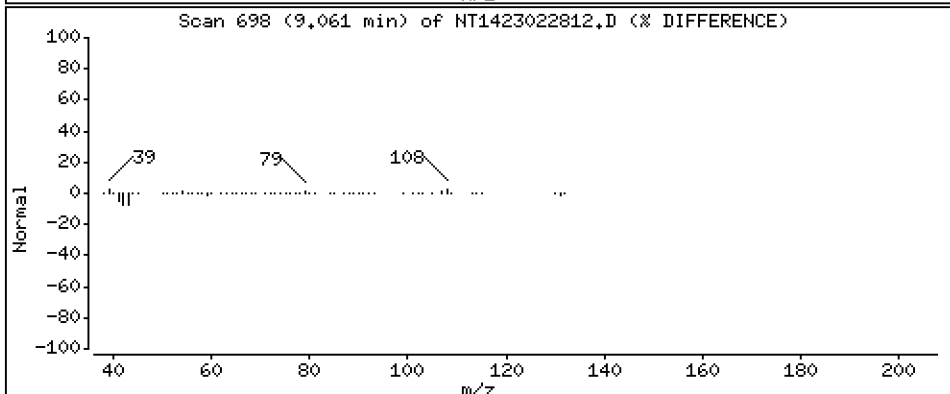
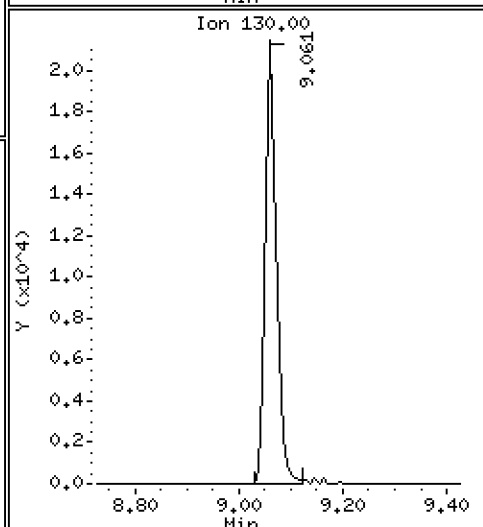
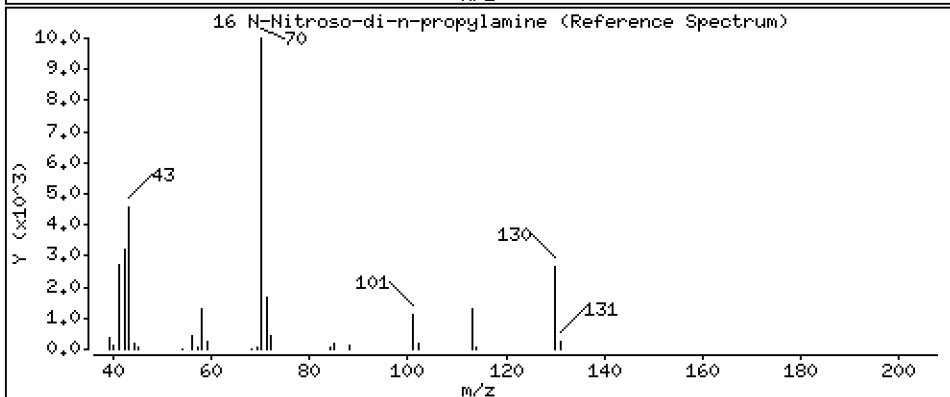
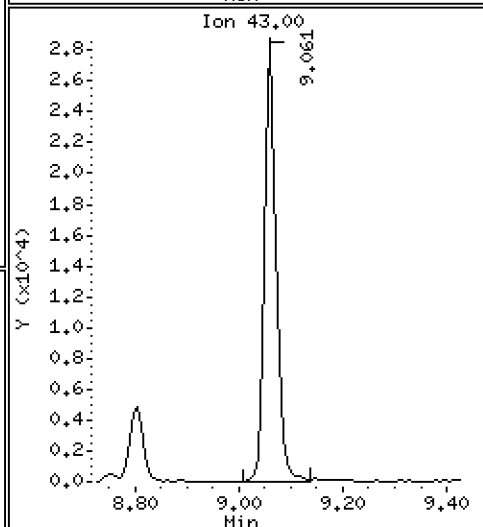
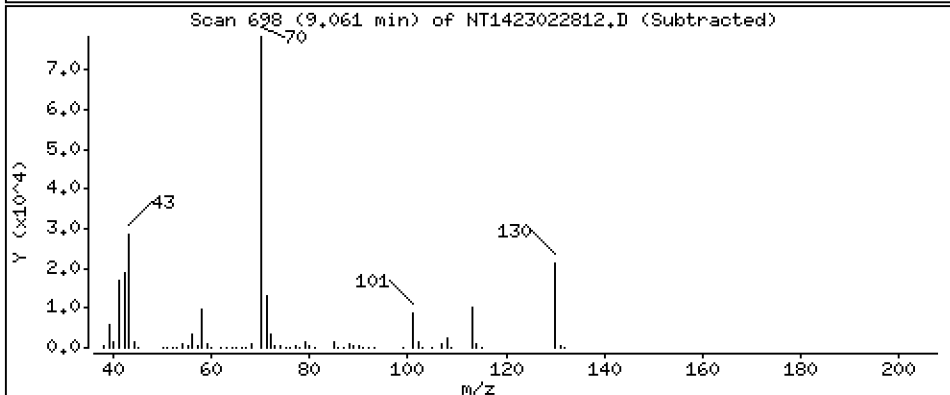
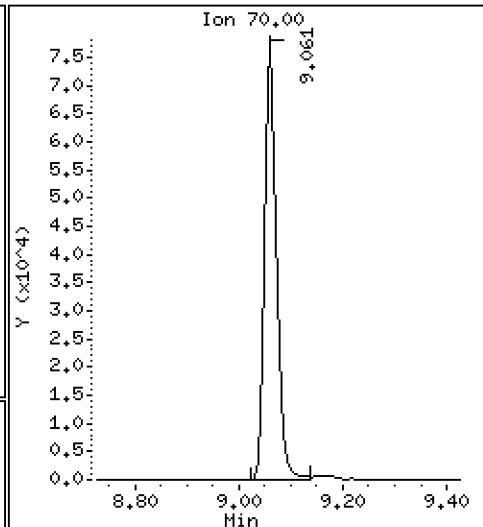
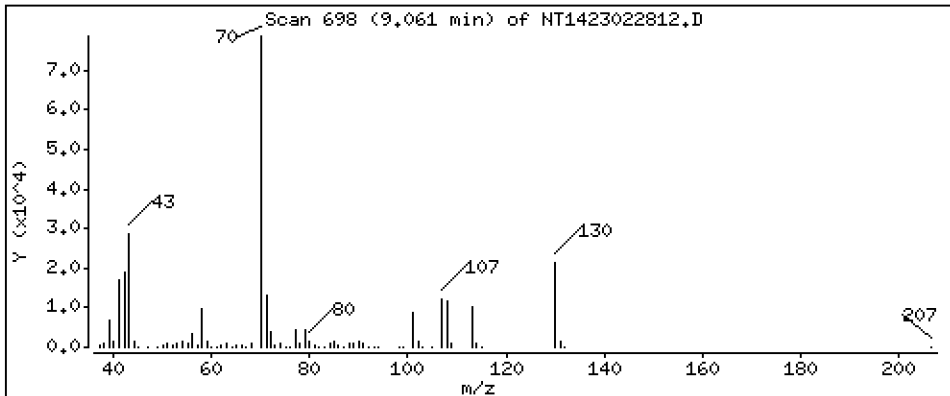
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

16 N-Nitroso-di-n-propylamine

Concentration: 5.138 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

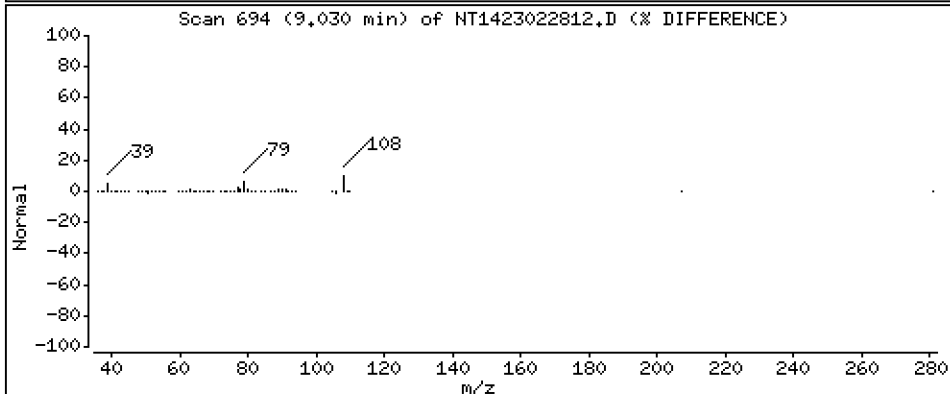
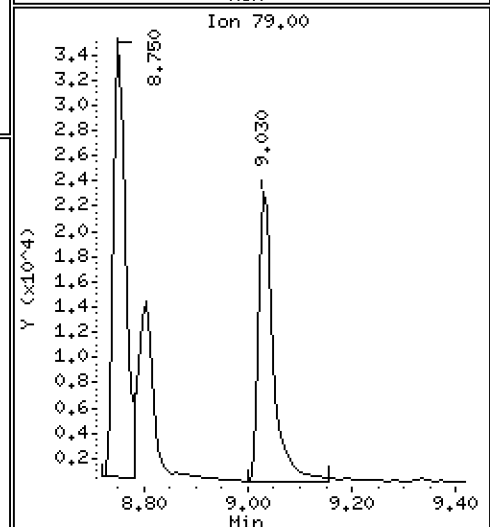
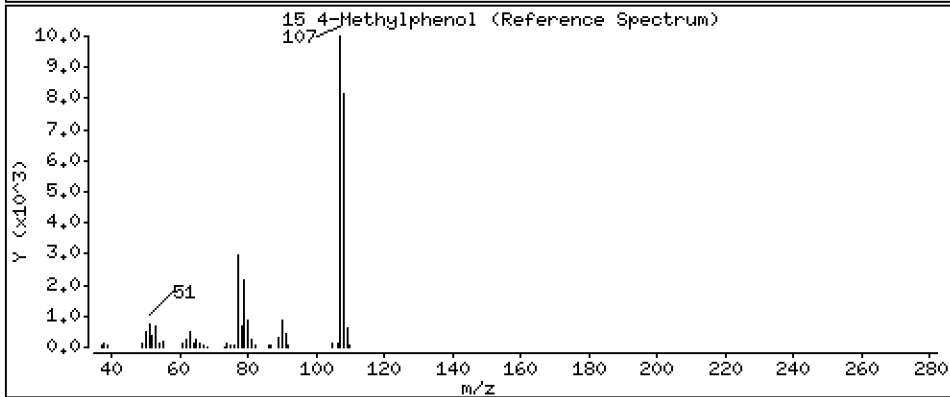
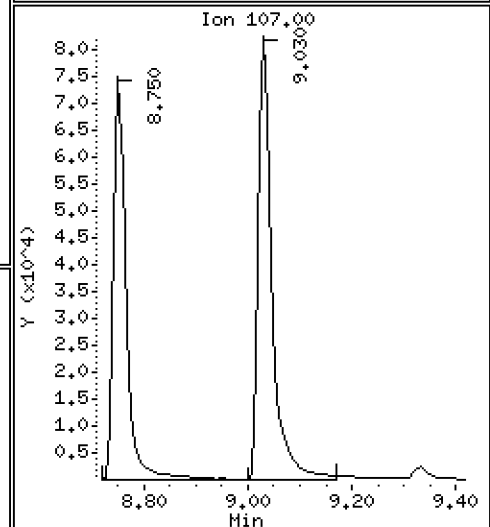
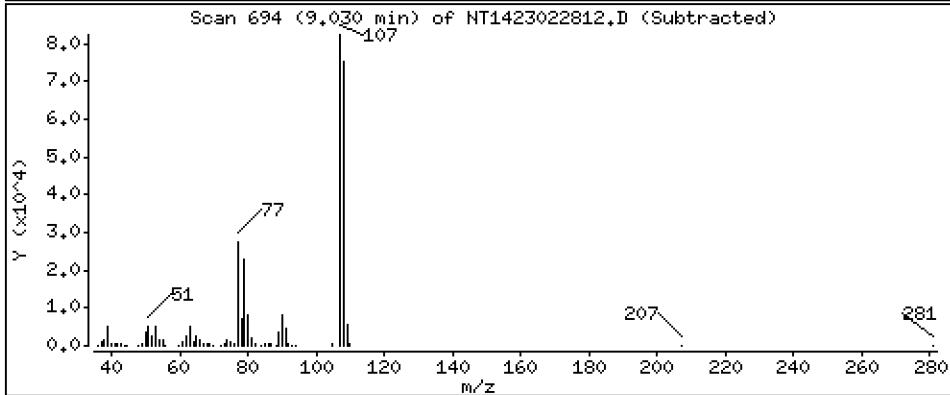
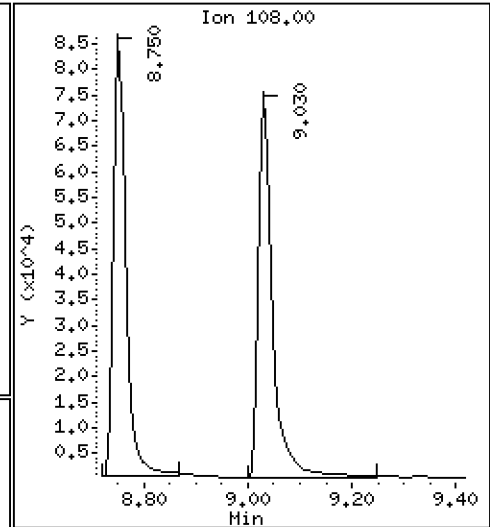
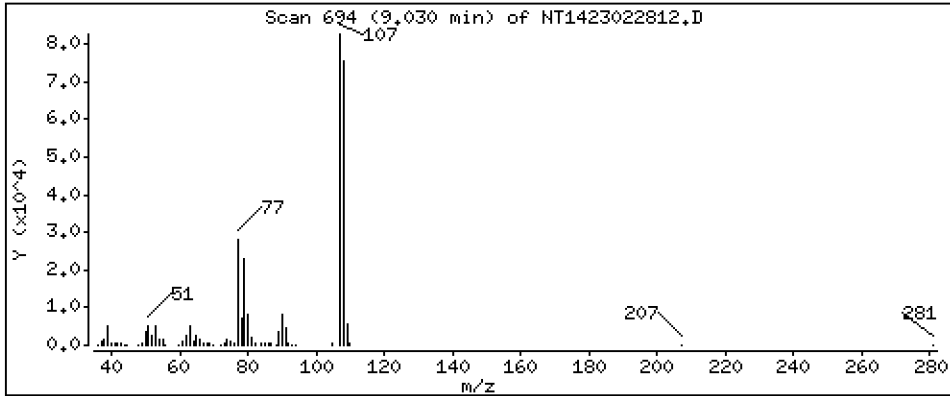
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

15 4-Methylphenol

Concentration: 4,218 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

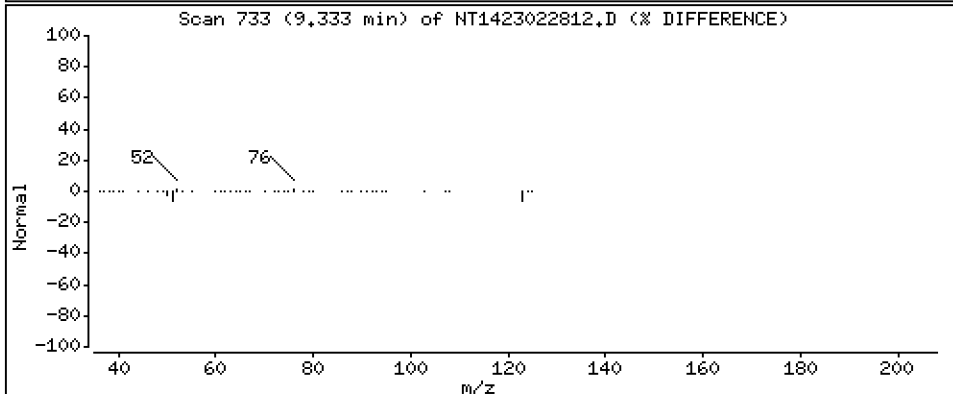
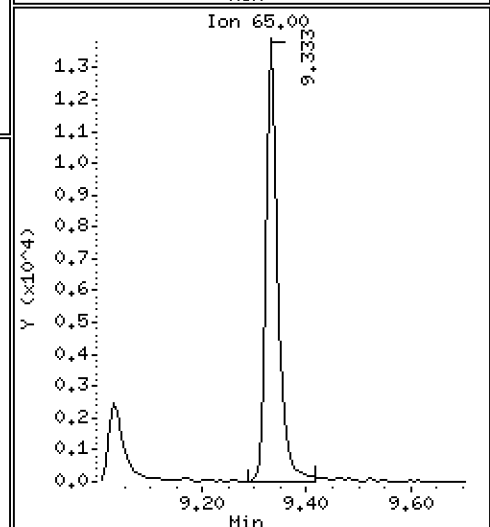
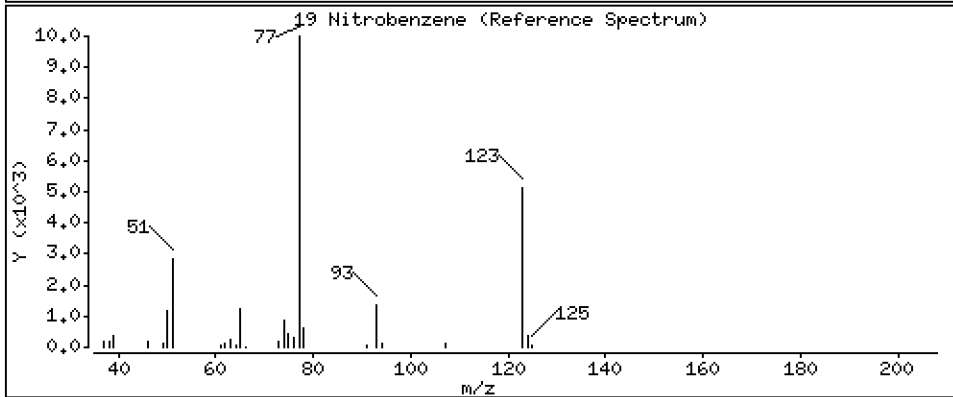
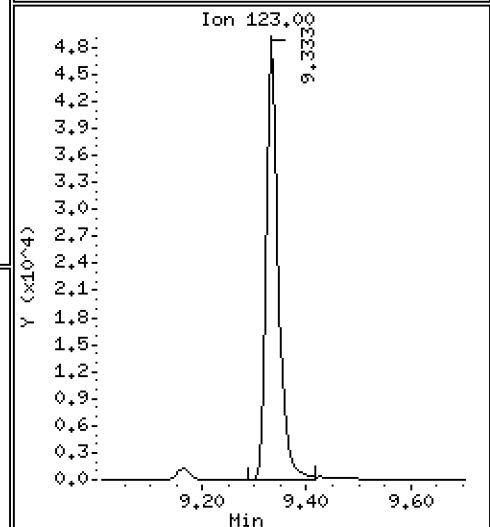
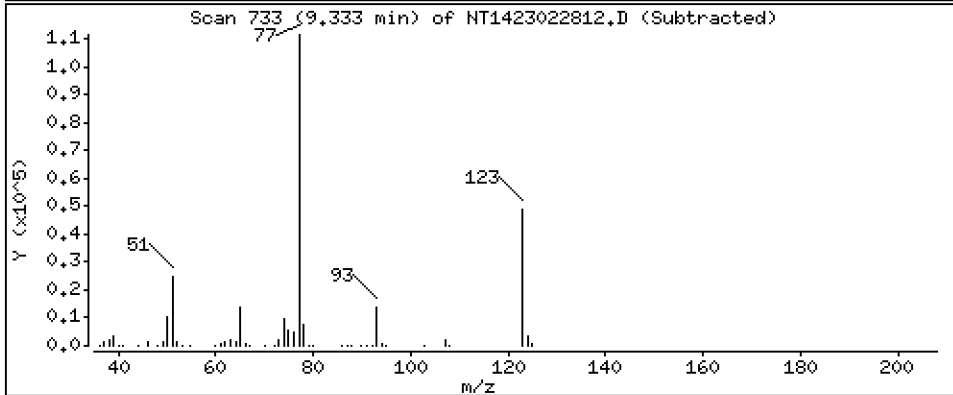
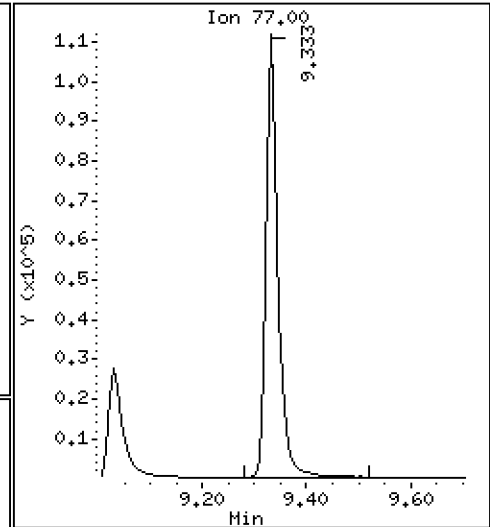
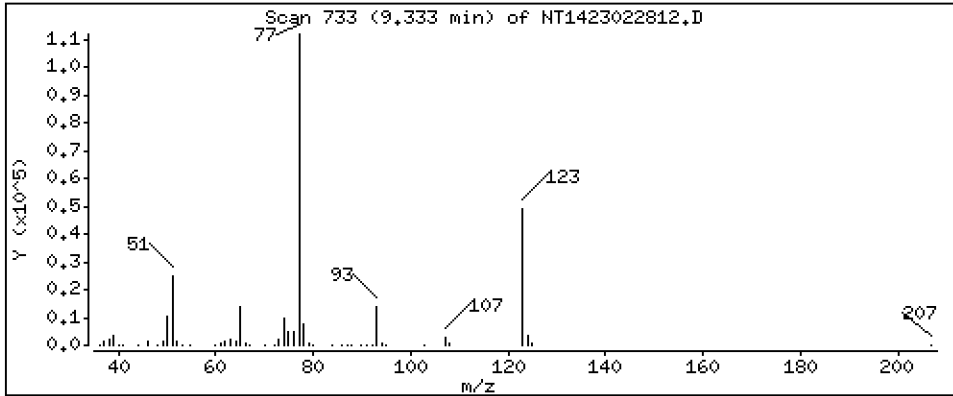
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

Concentration: 5,059 ug/mL

19 Nitrobenzene



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

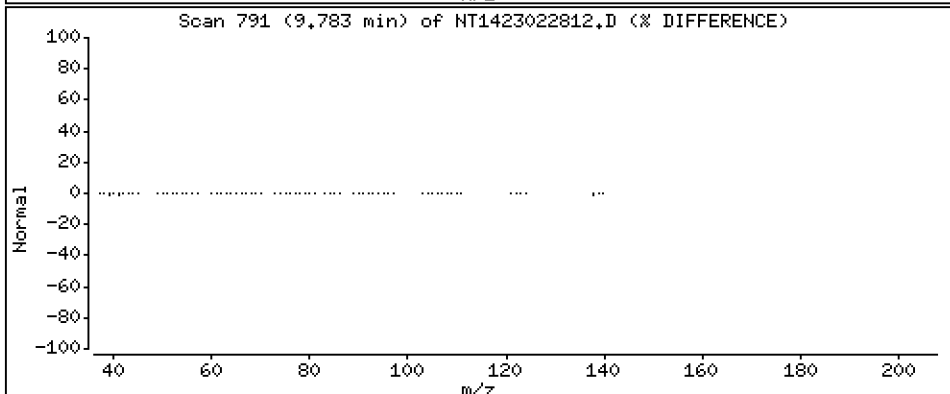
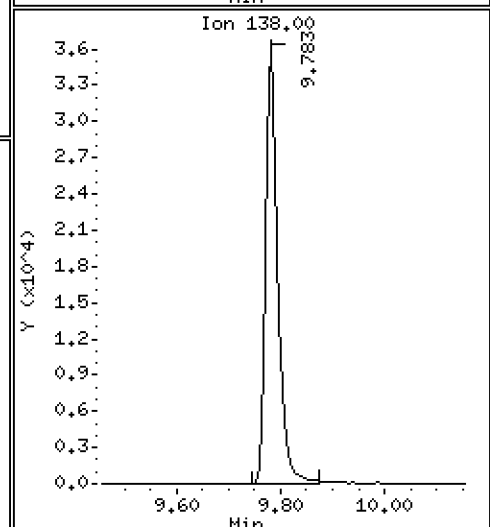
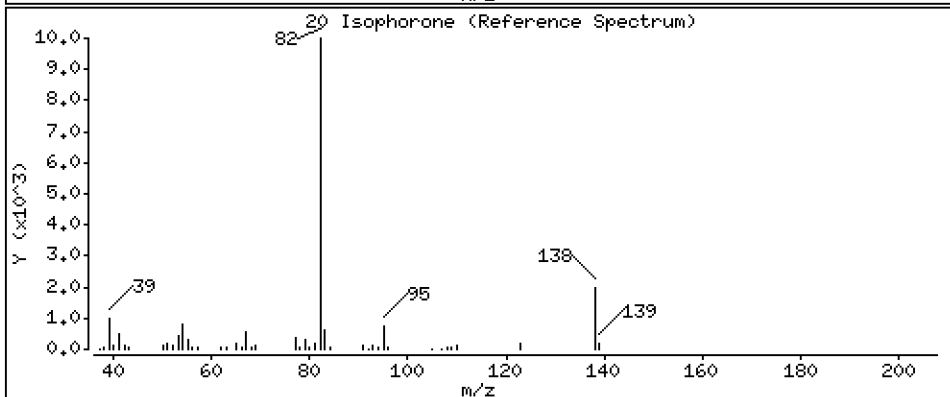
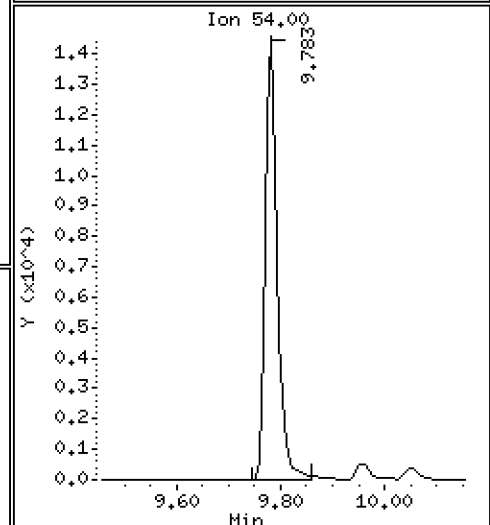
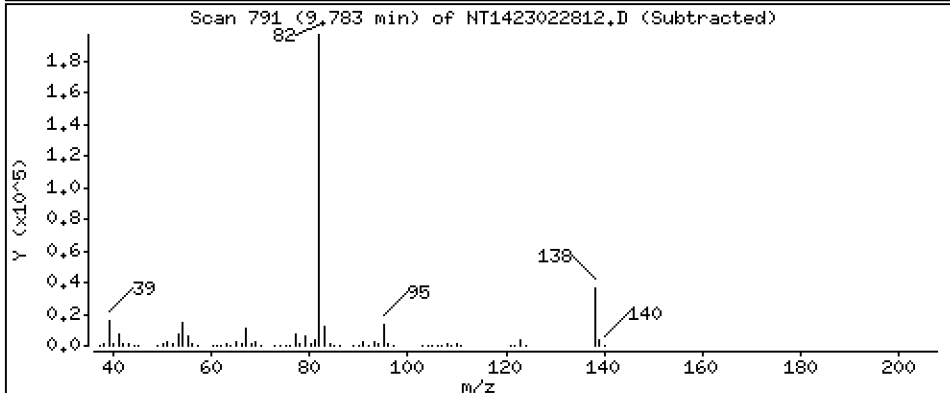
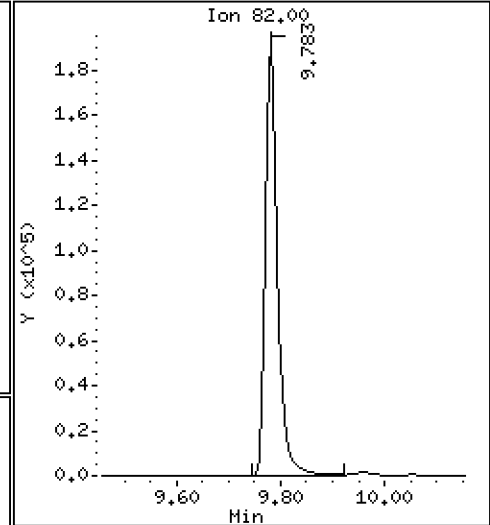
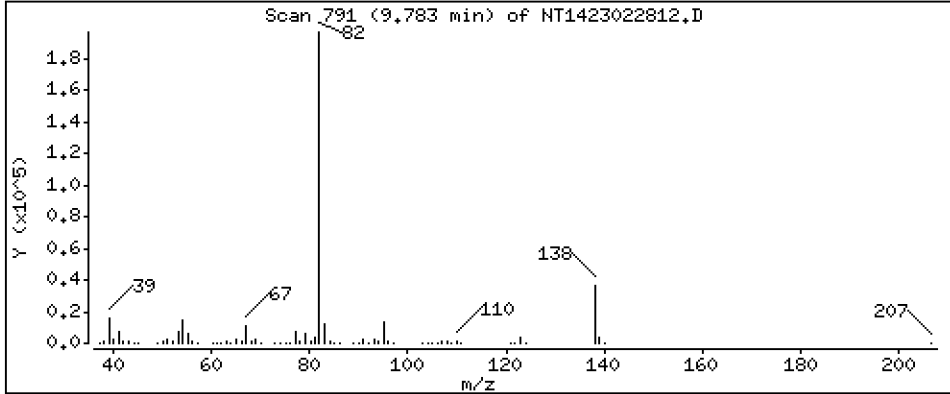
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

20 Isophorone

Concentration: 6.410 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

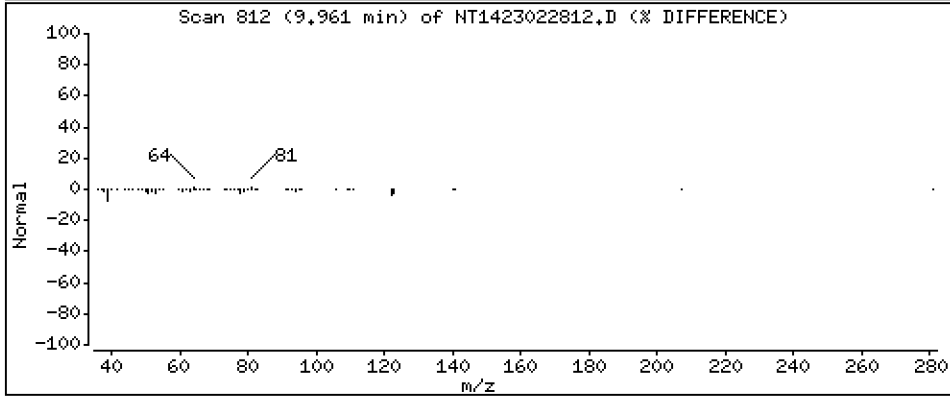
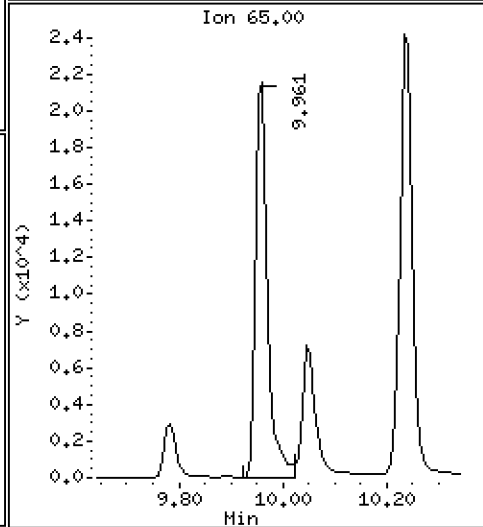
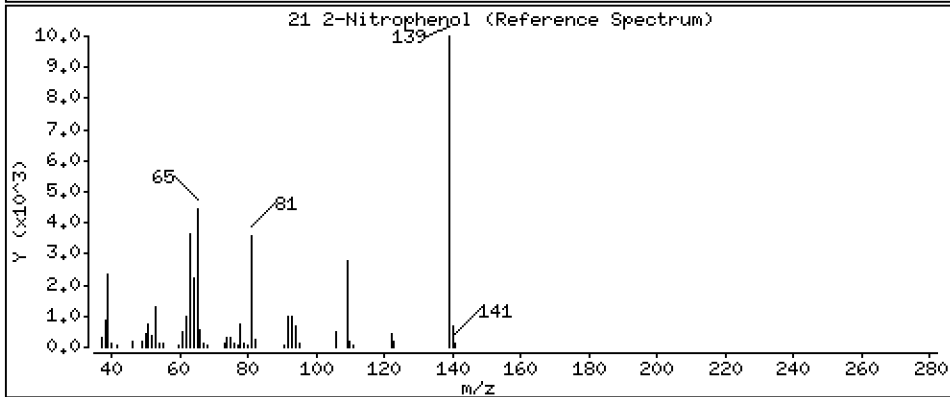
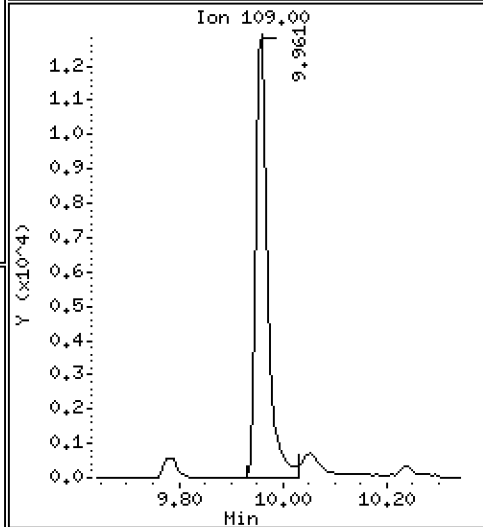
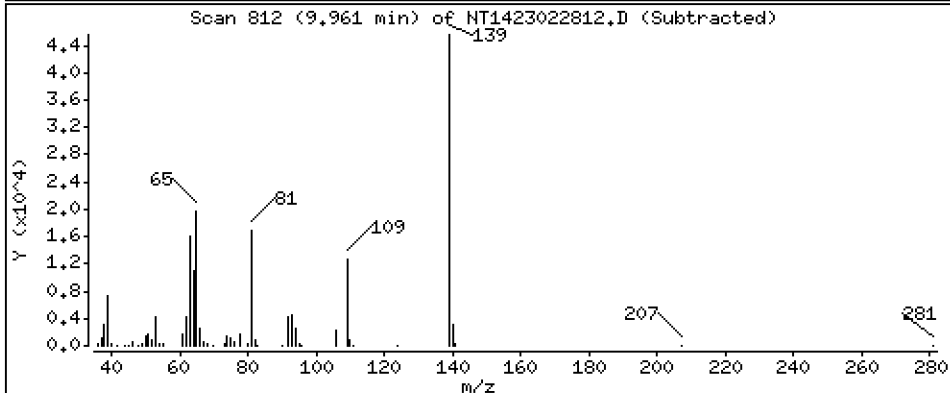
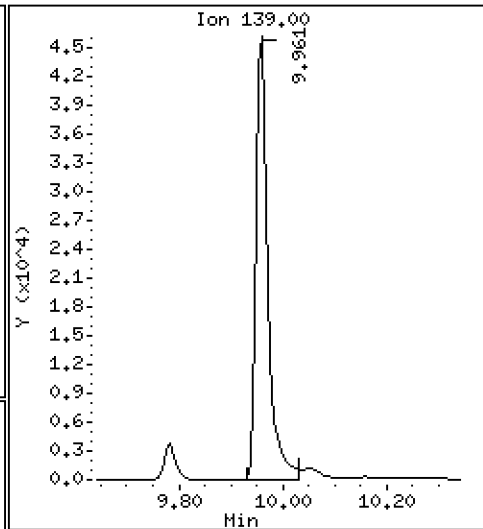
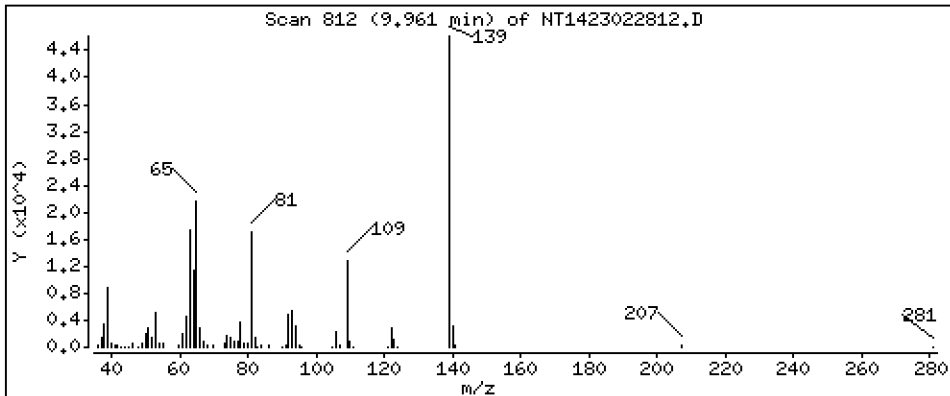
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

21 2-Nitrophenol

Concentration: 4,126 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

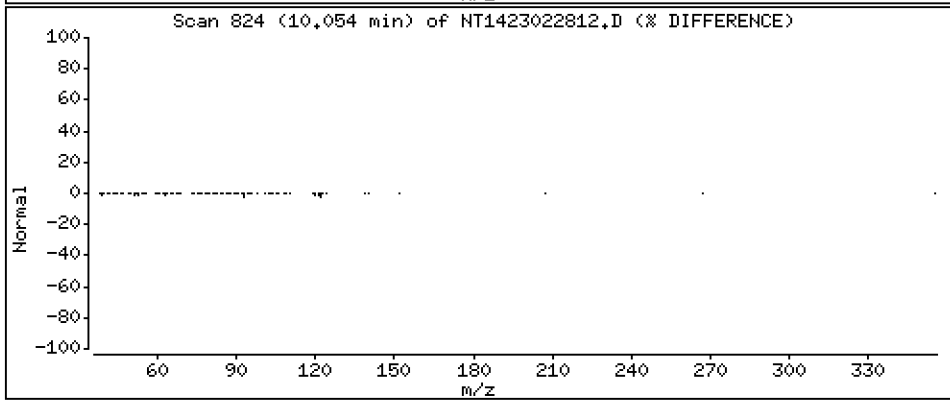
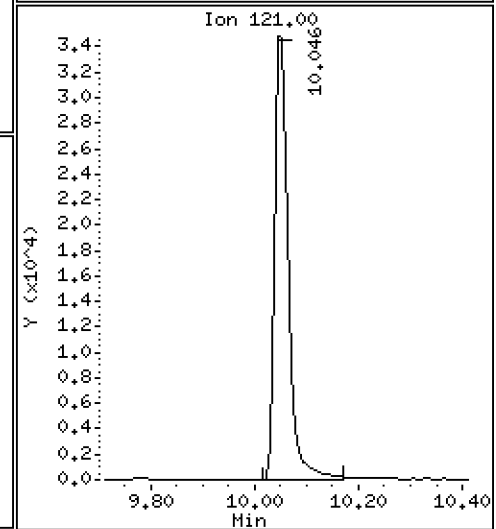
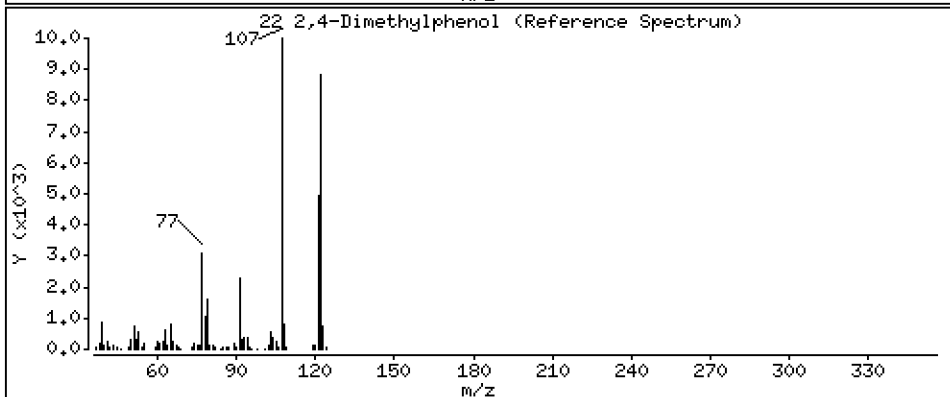
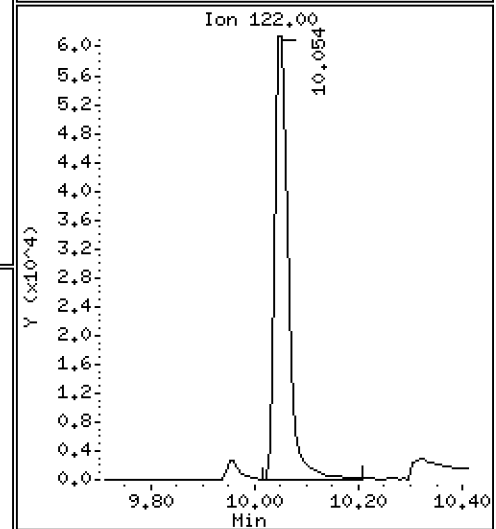
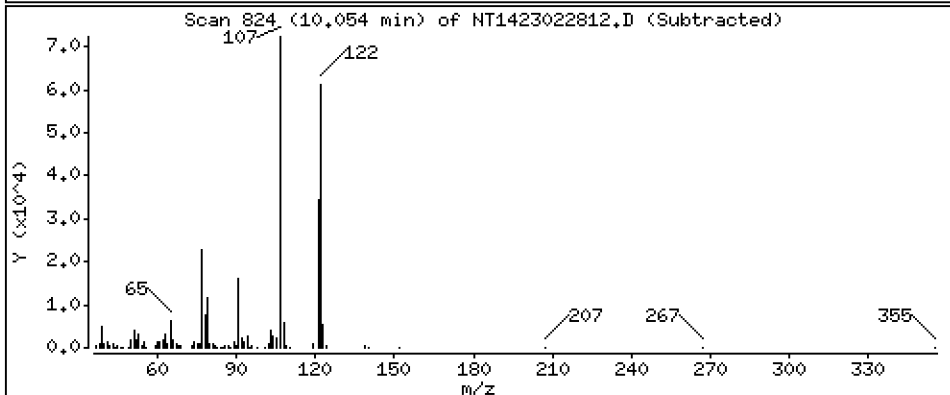
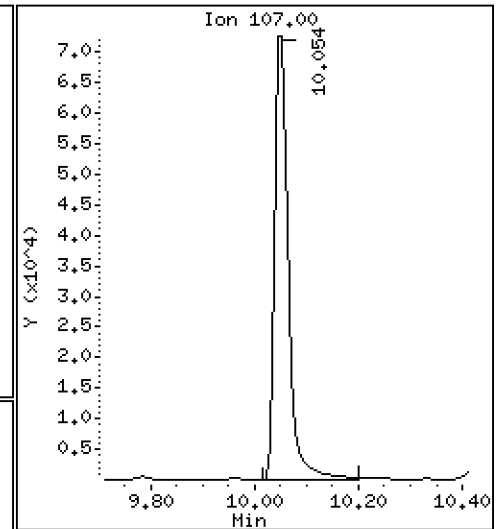
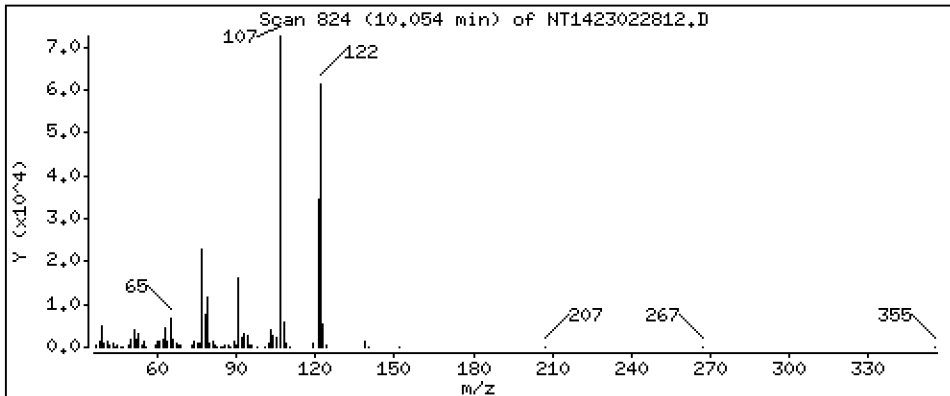
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 3,890 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

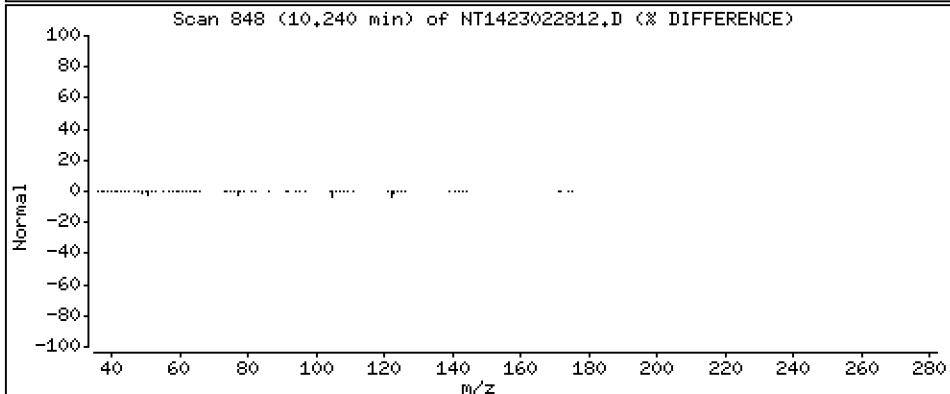
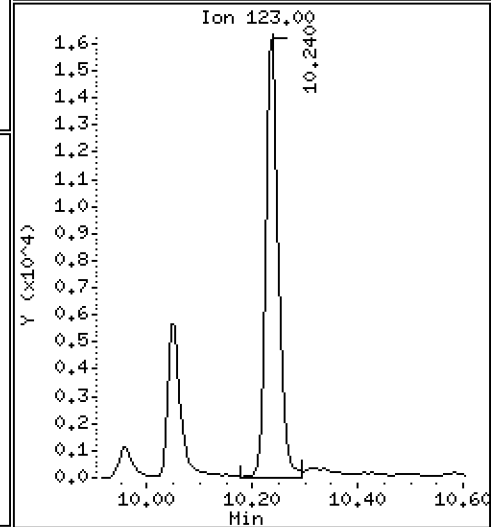
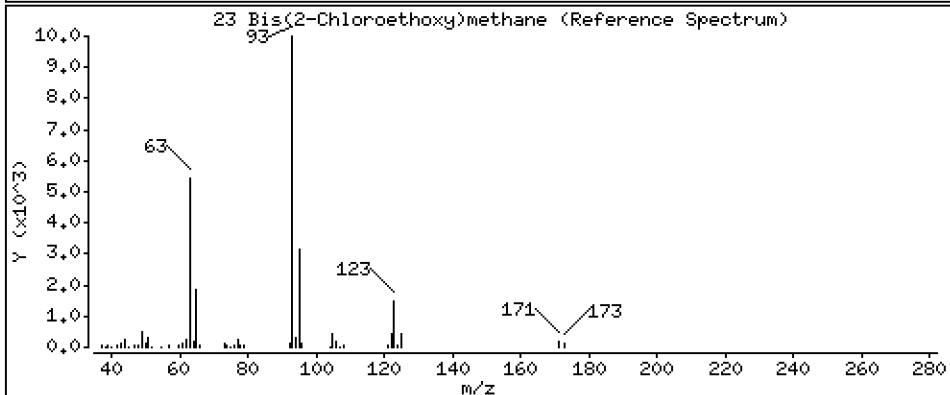
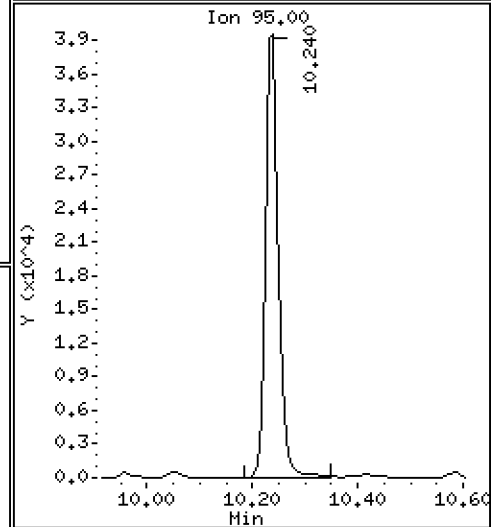
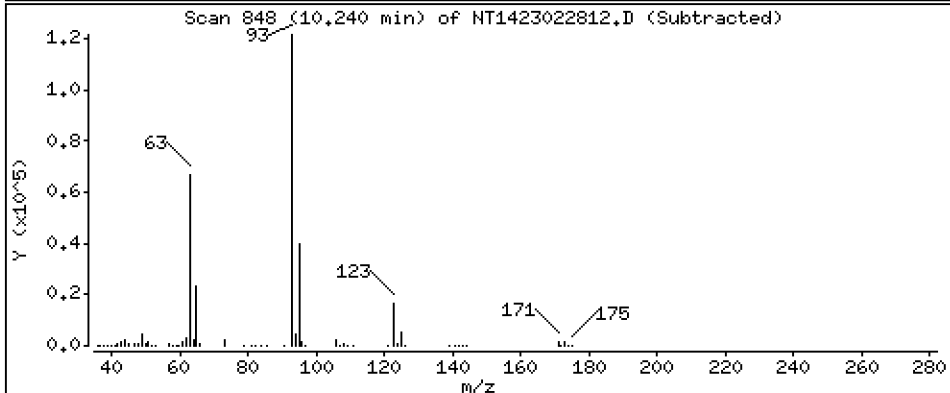
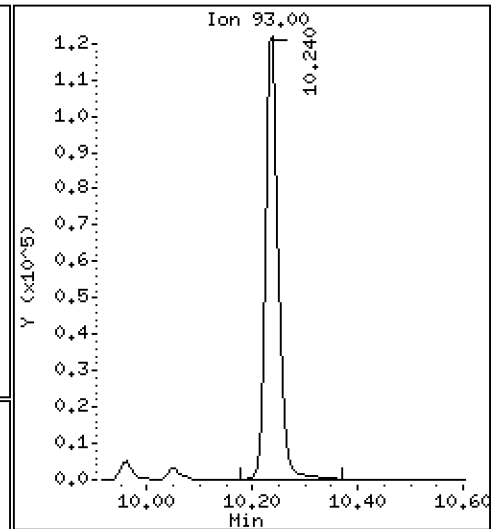
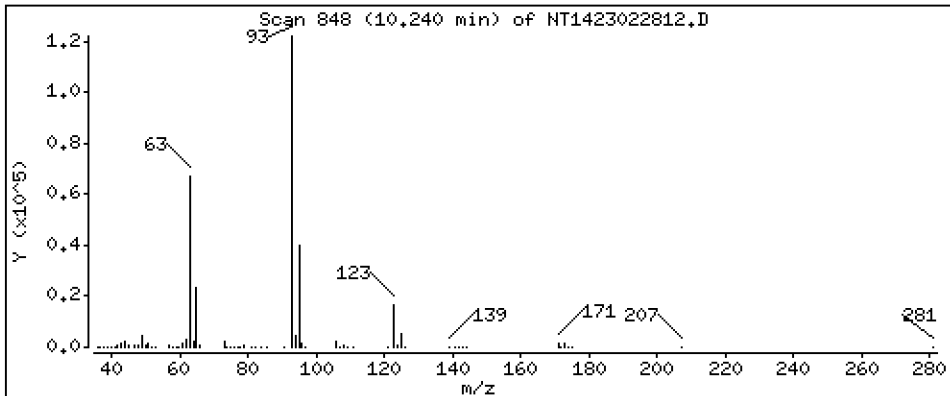
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

23 Bis(2-Chloroethoxy)methane

Concentration: 5,764 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

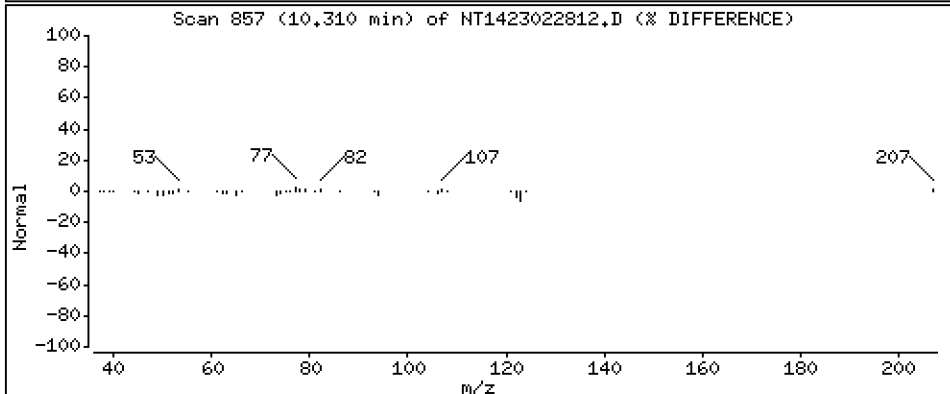
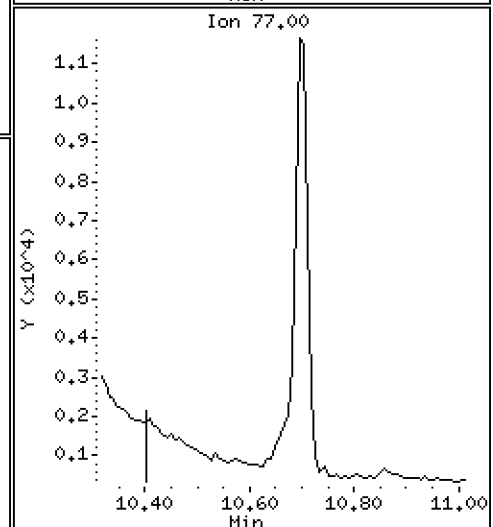
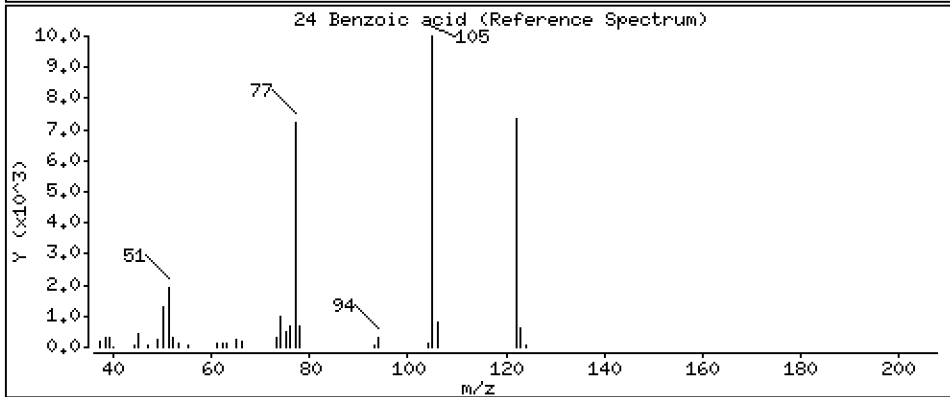
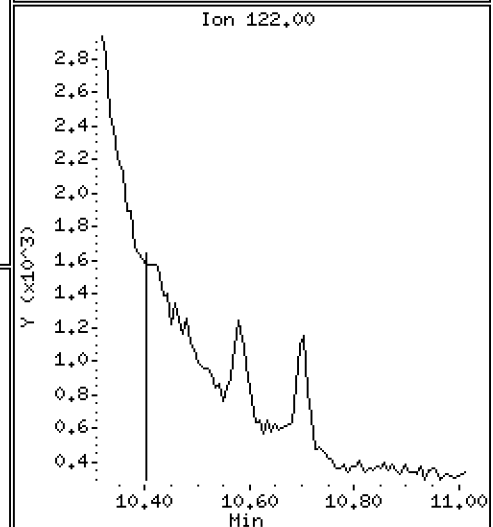
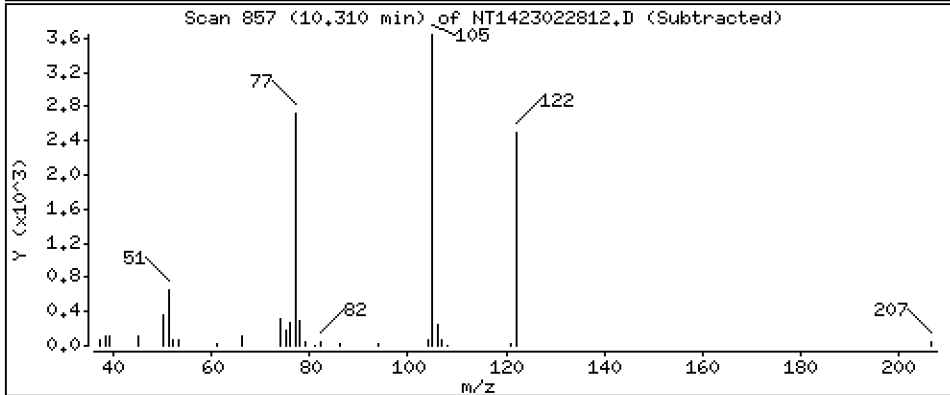
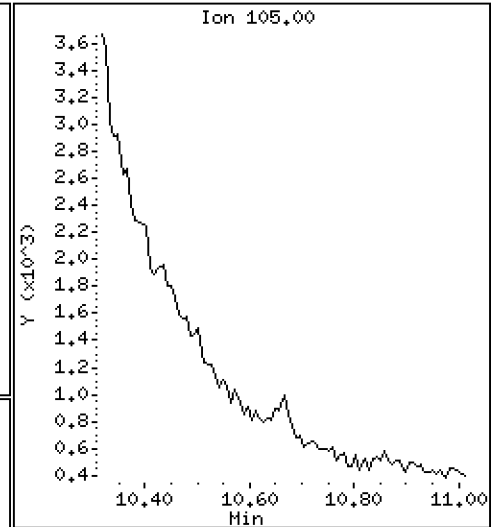
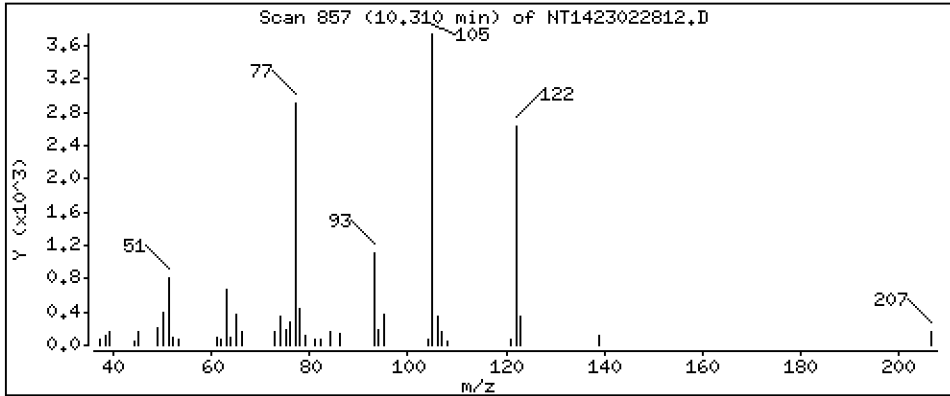
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

24 Benzoic acid

Concentration: 4.071 ug/mL



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Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

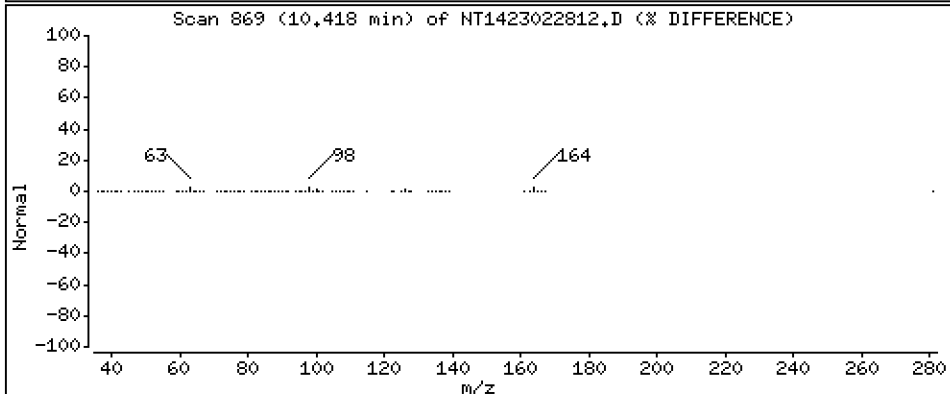
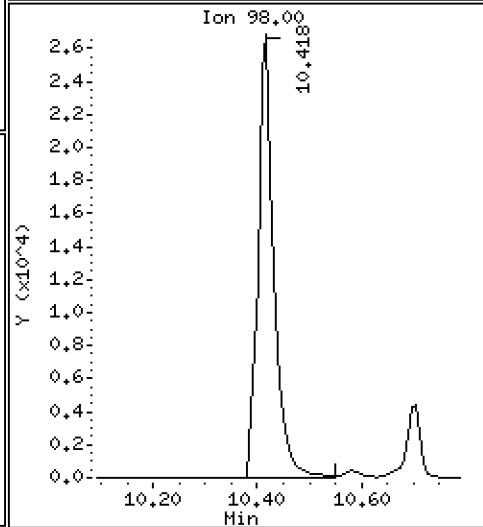
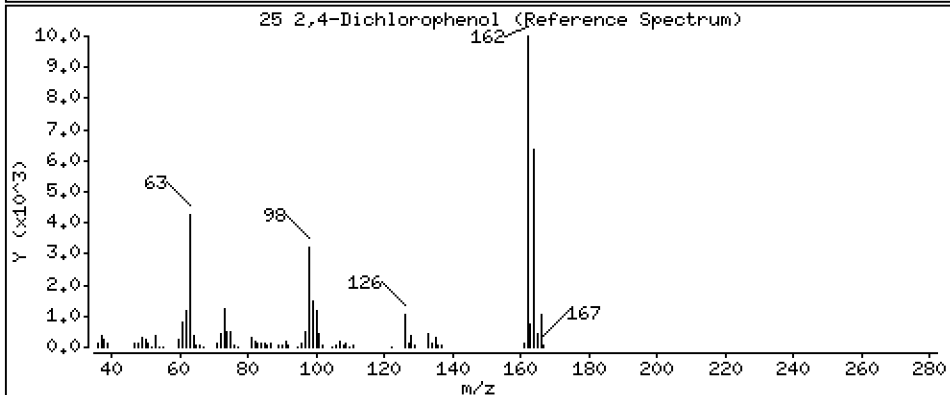
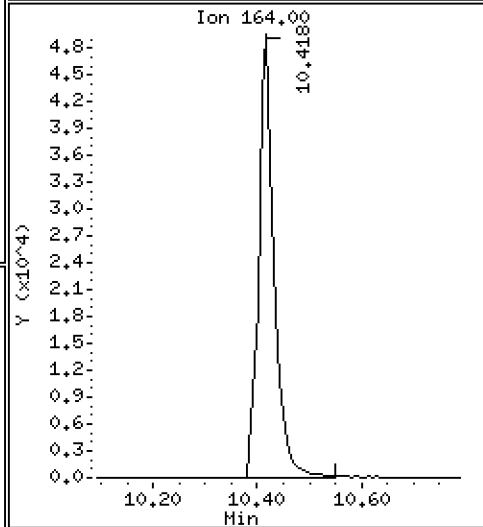
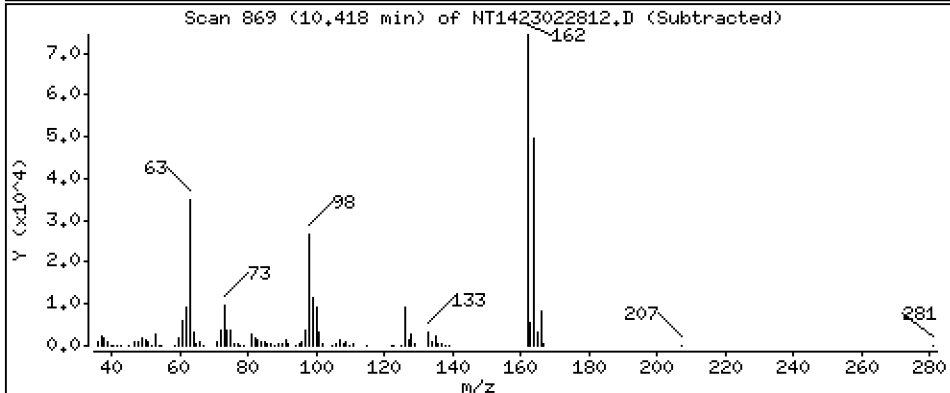
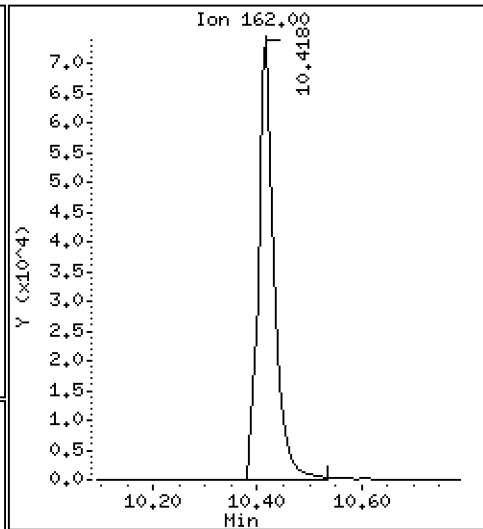
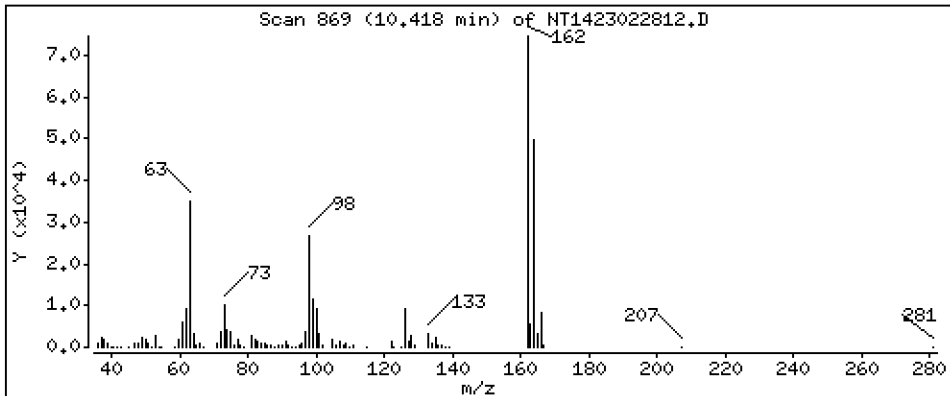
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 4,783 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

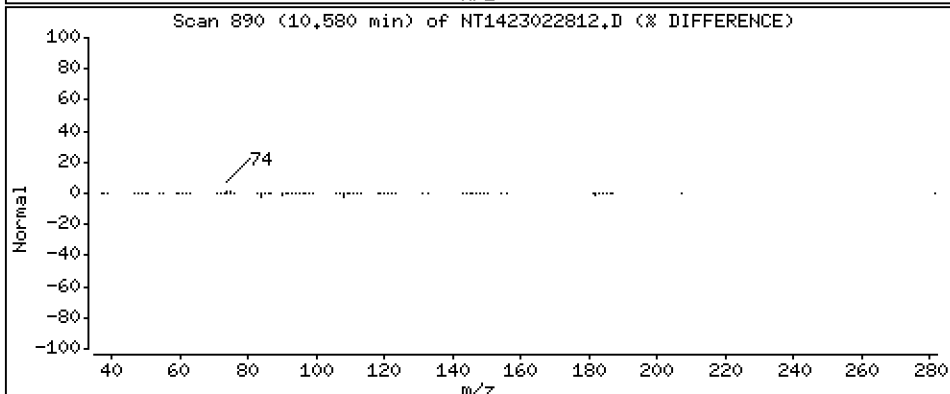
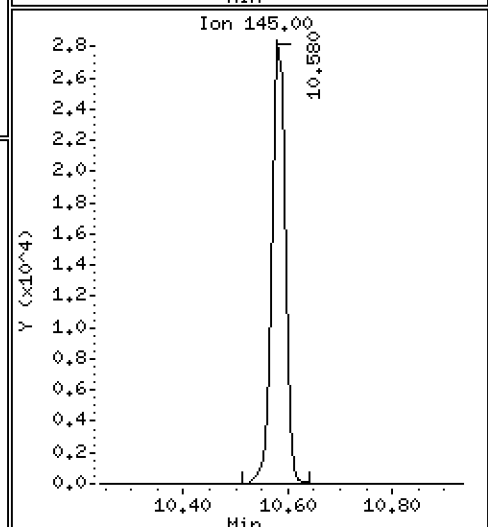
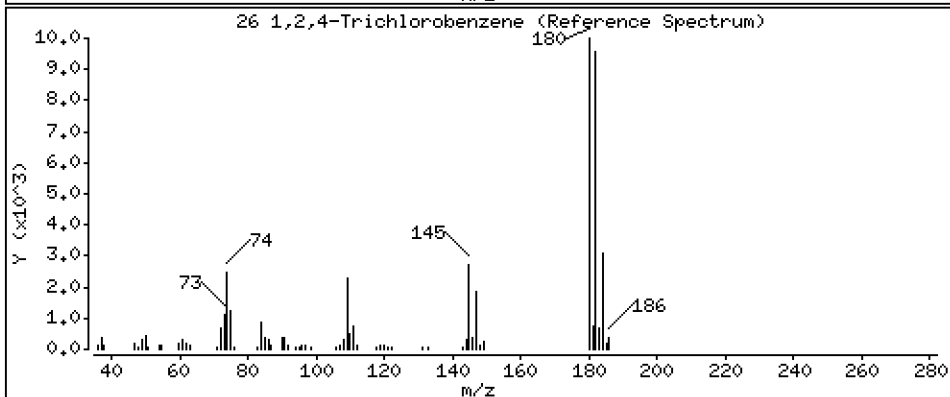
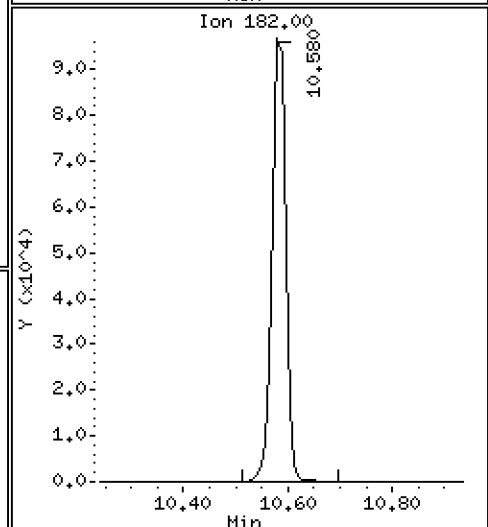
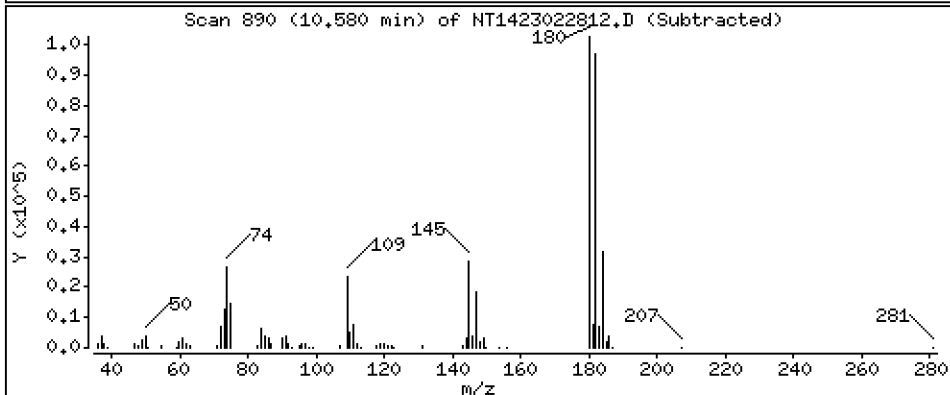
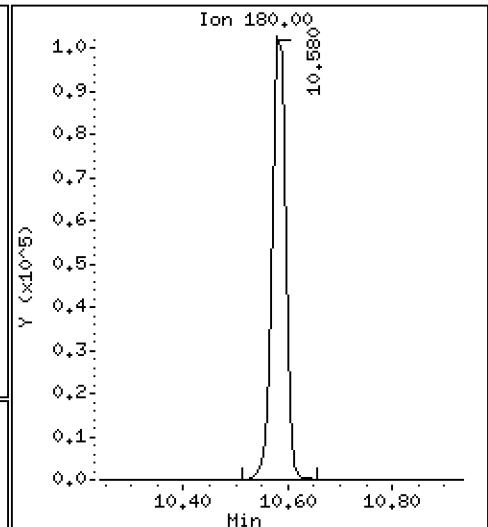
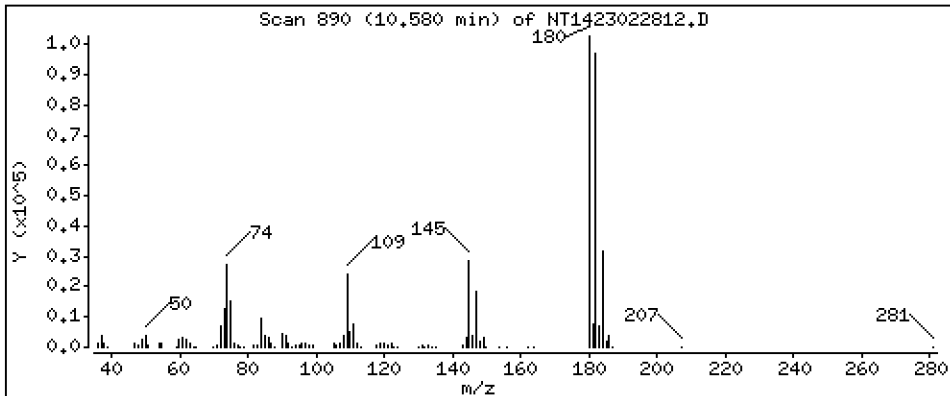
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 4,789 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

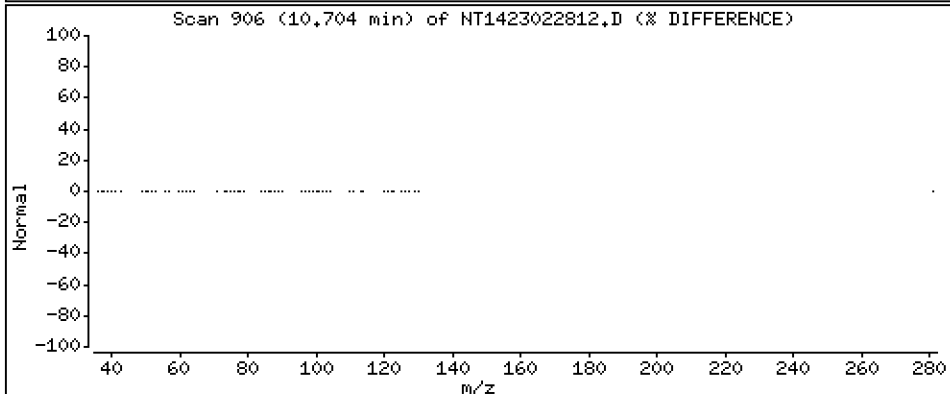
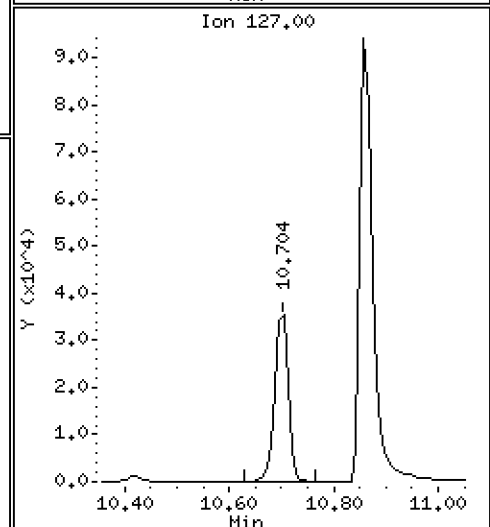
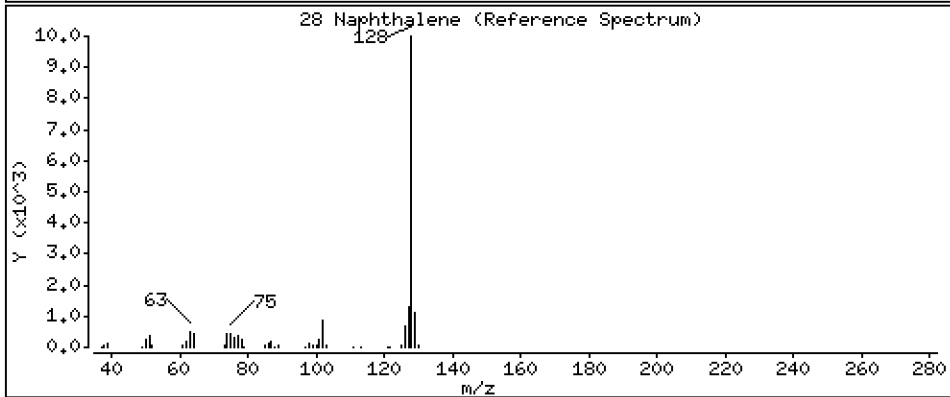
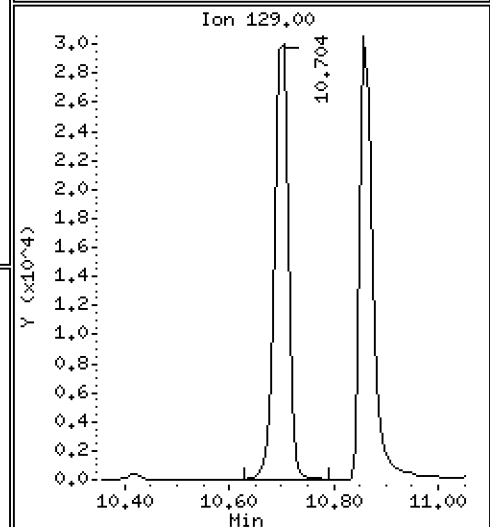
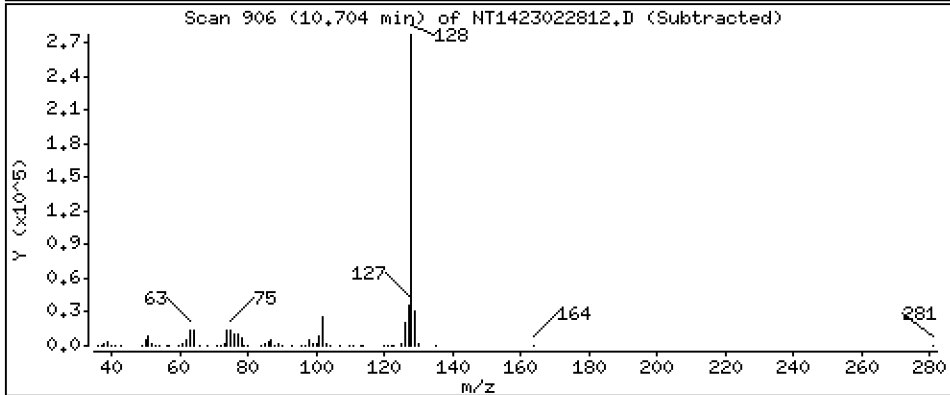
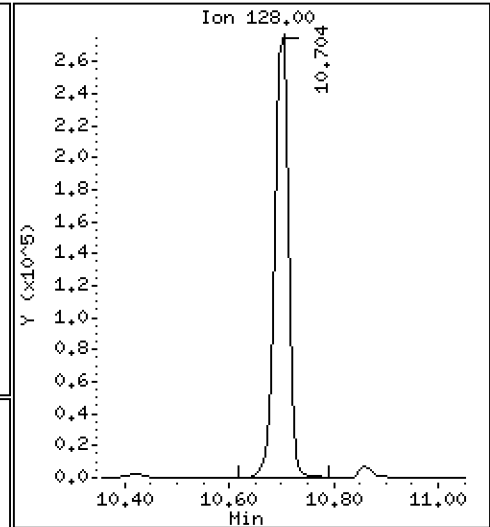
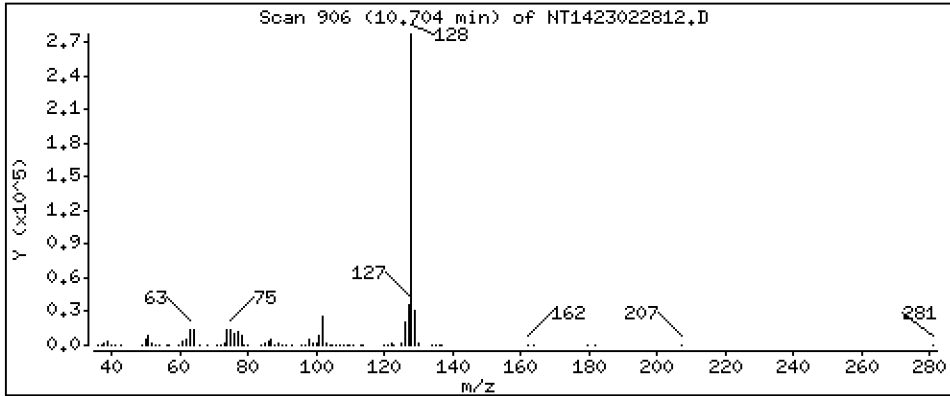
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 4,766 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

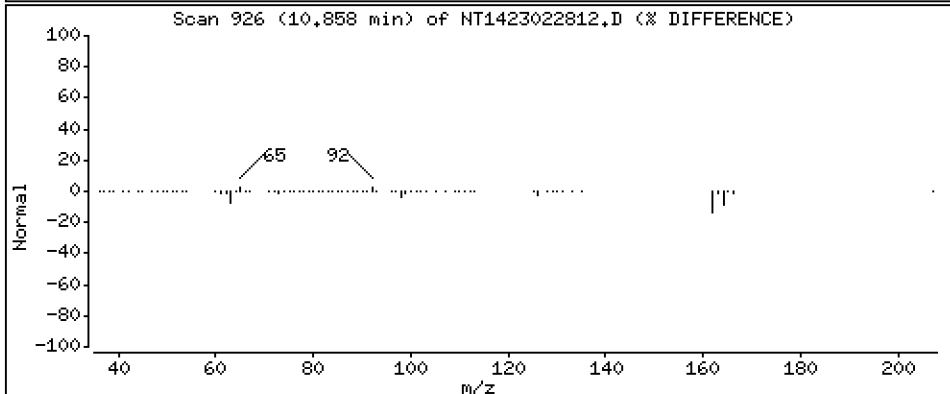
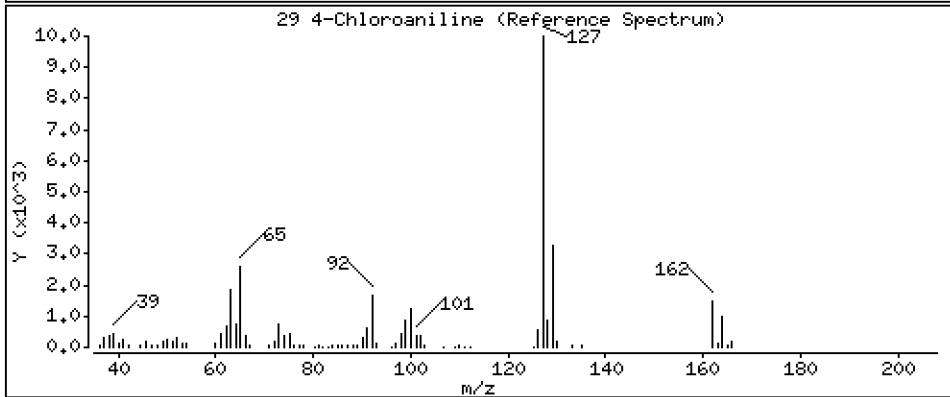
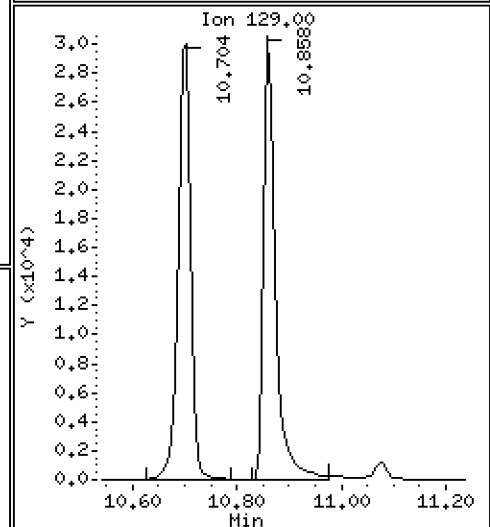
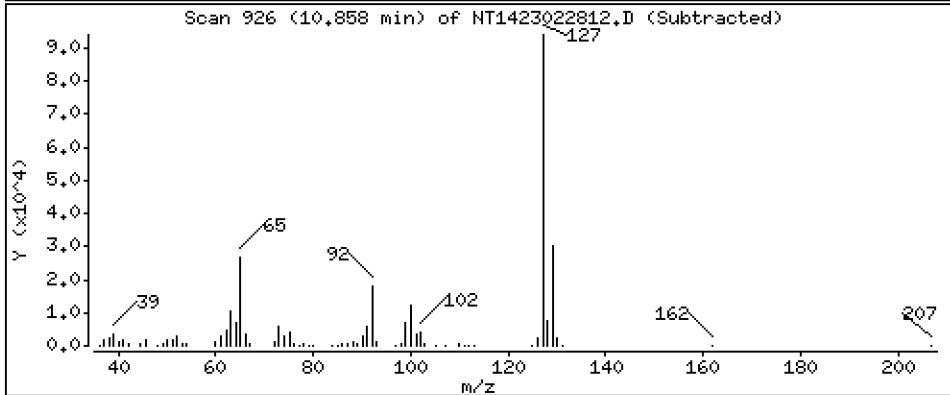
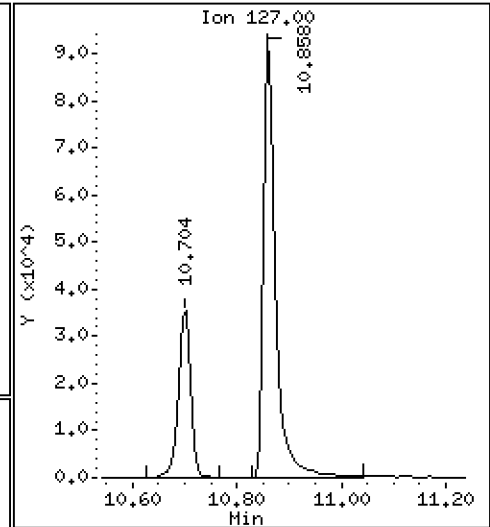
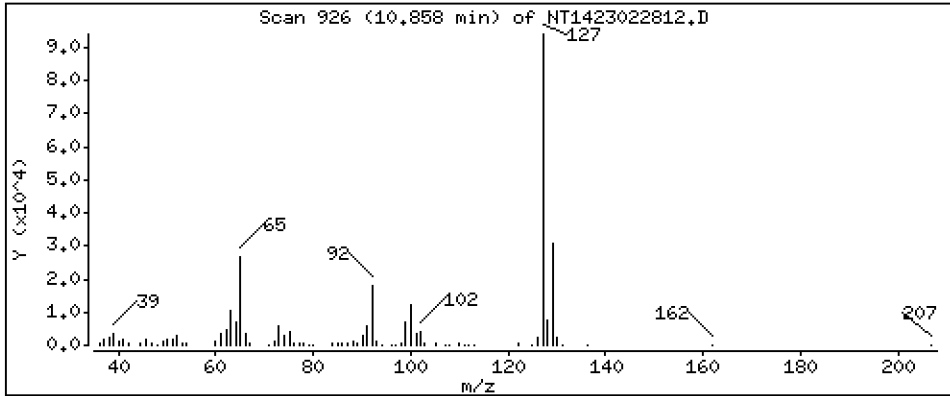
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

29 4-Chloroaniline

Concentration: 3,895 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

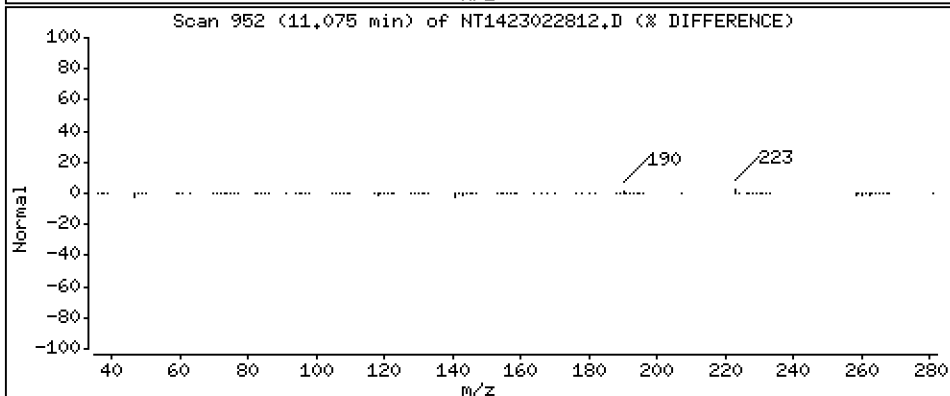
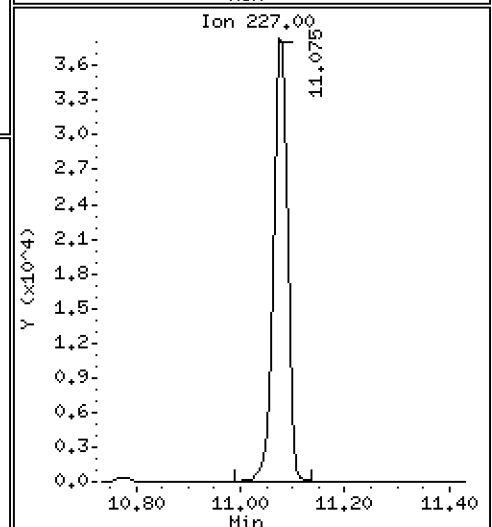
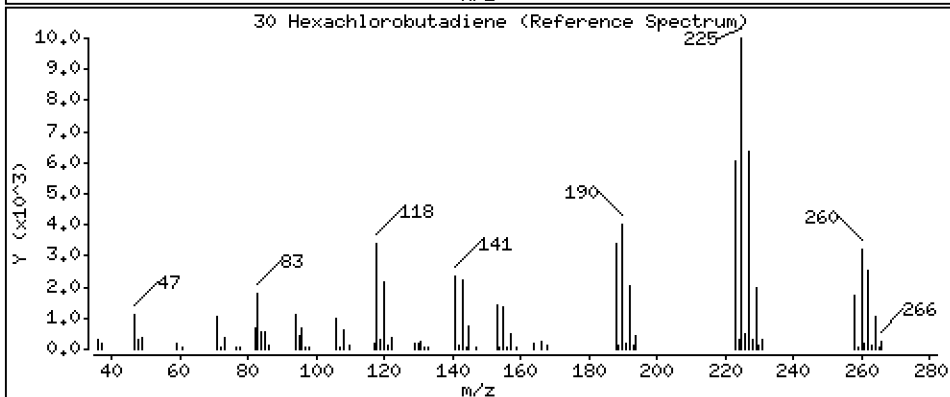
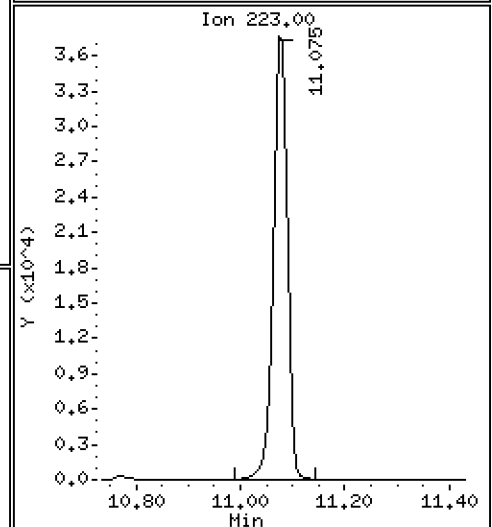
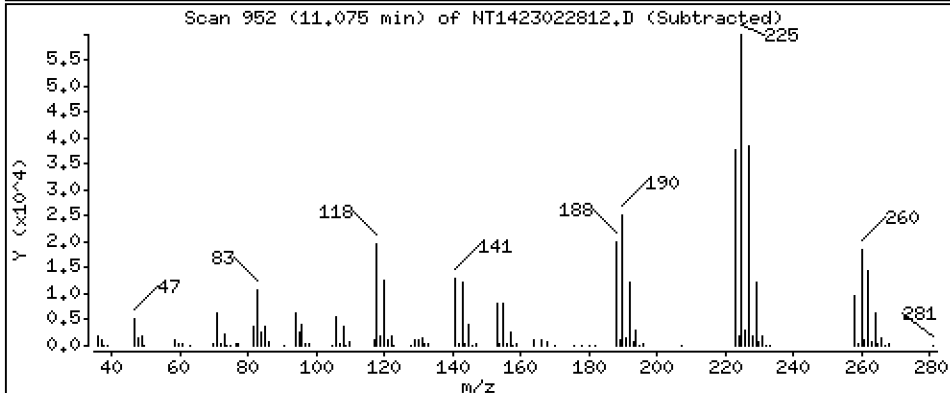
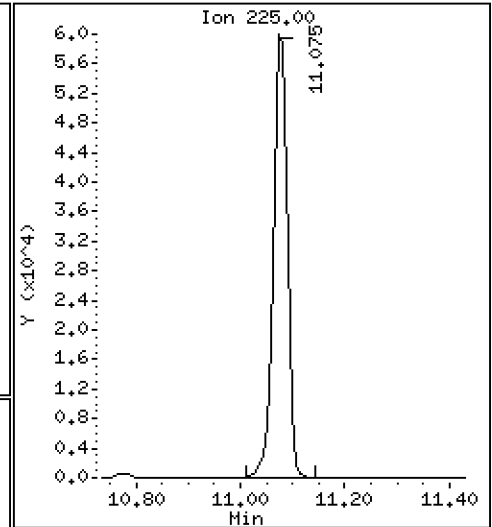
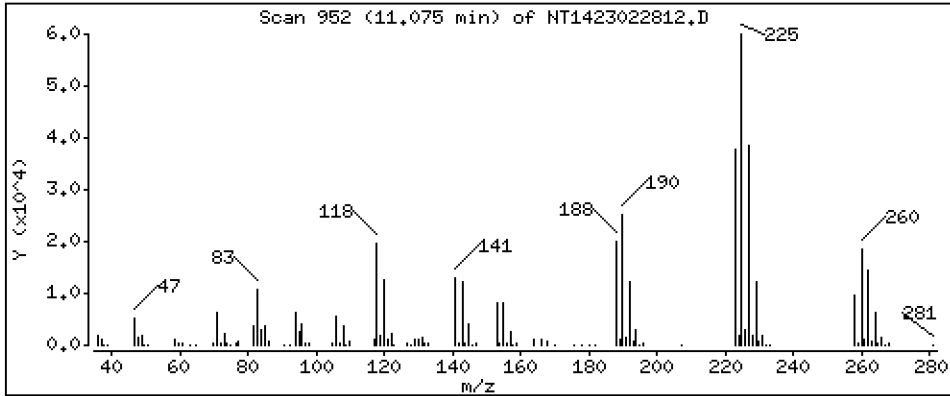
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 4,803 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

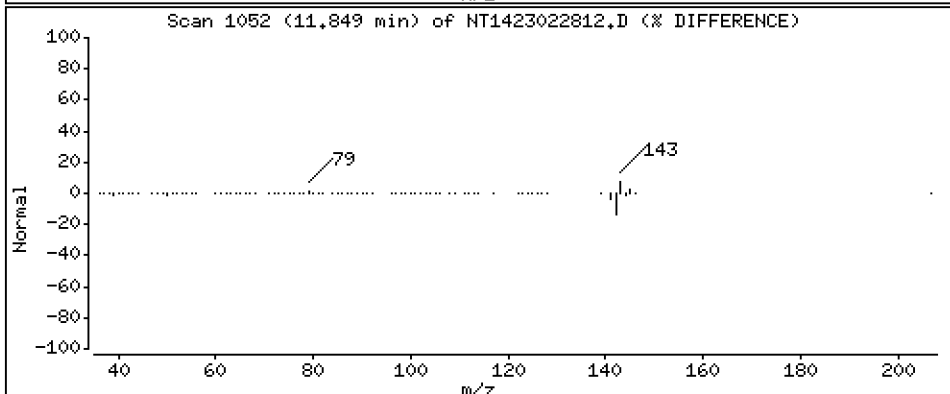
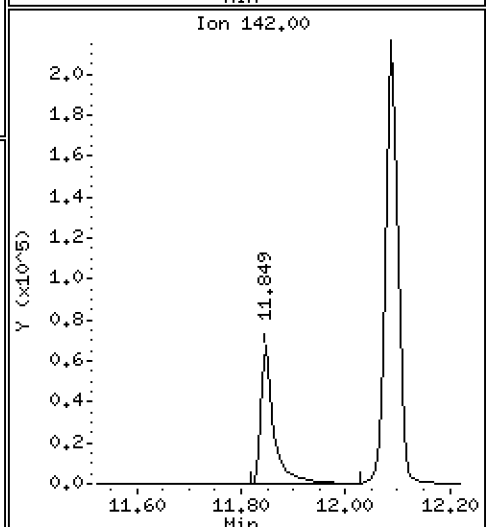
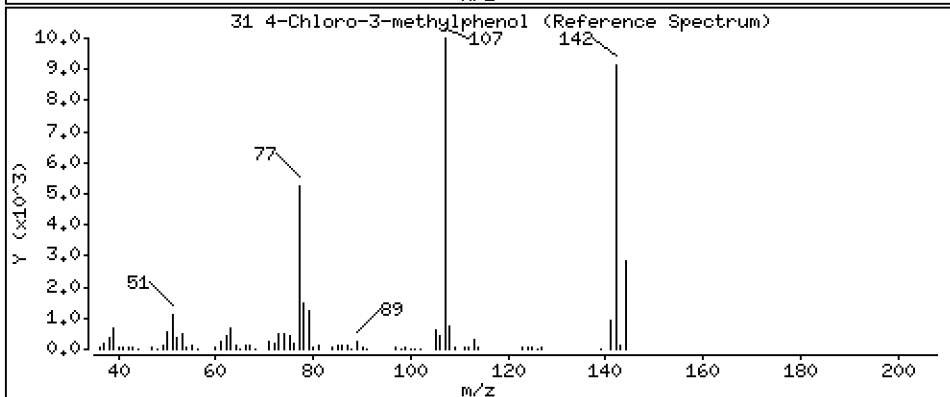
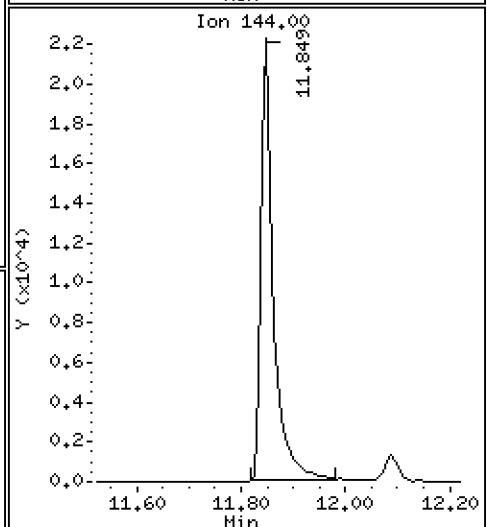
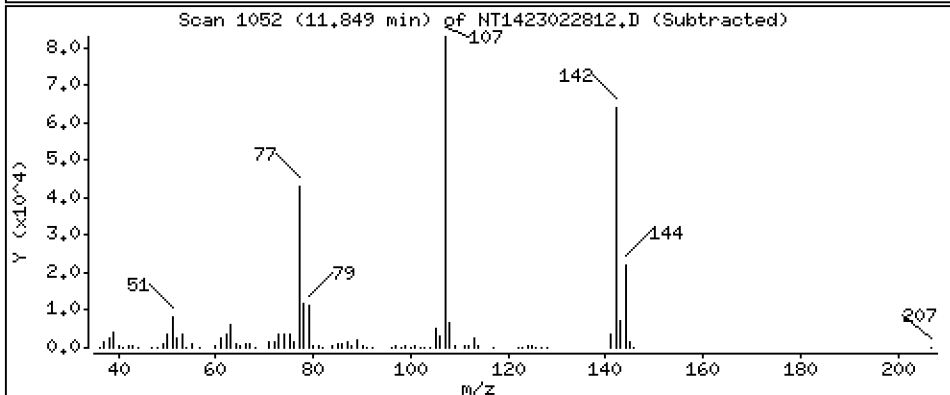
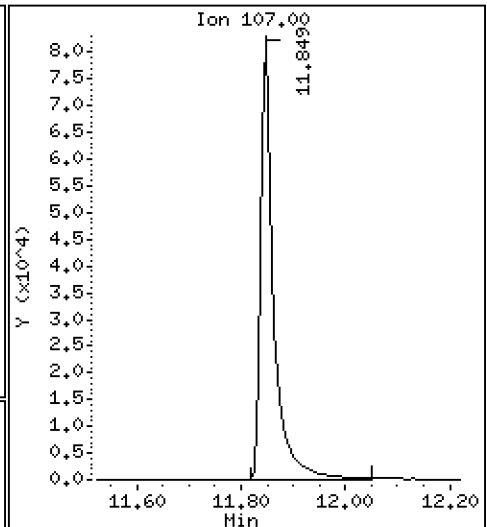
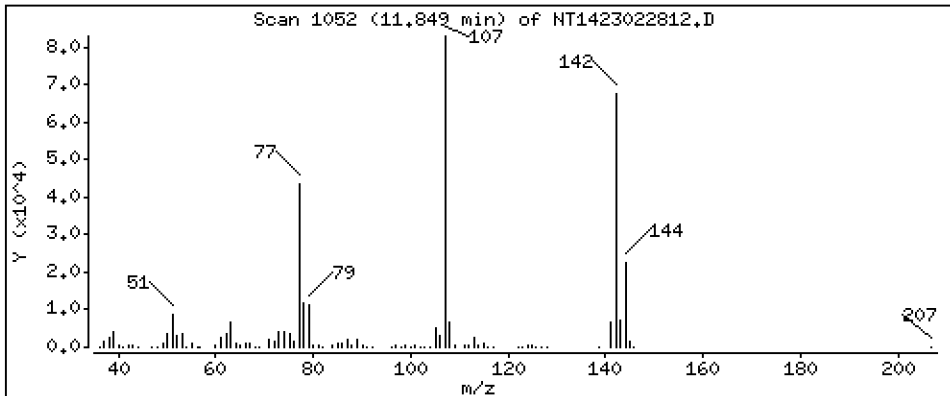
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

31 4-Chloro-3-methylphenol

Concentration: 4.860 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

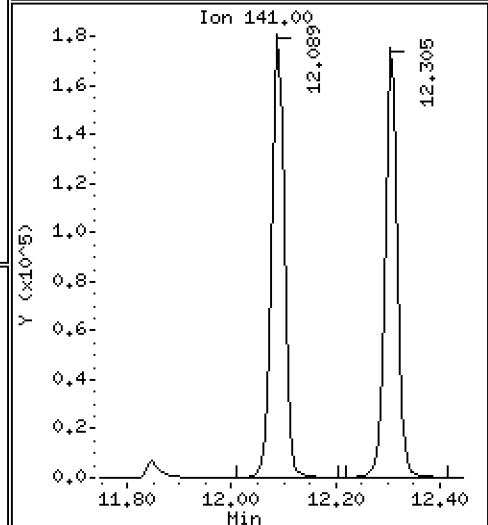
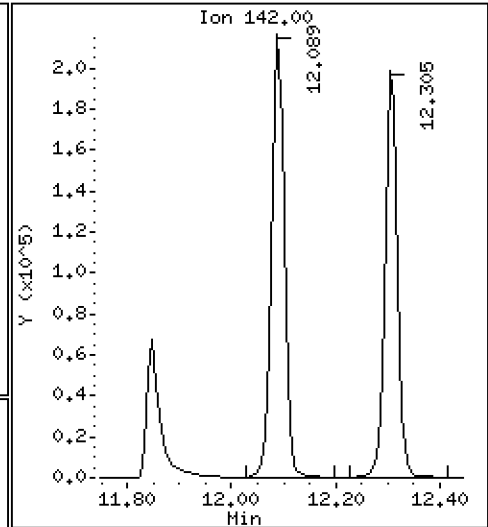
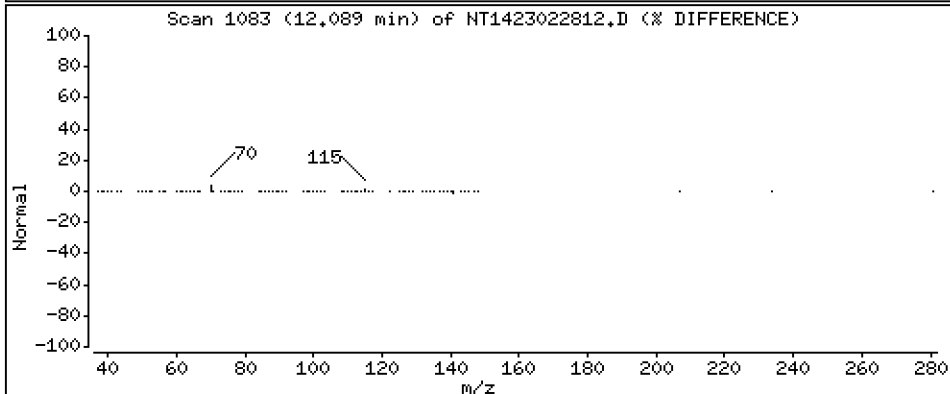
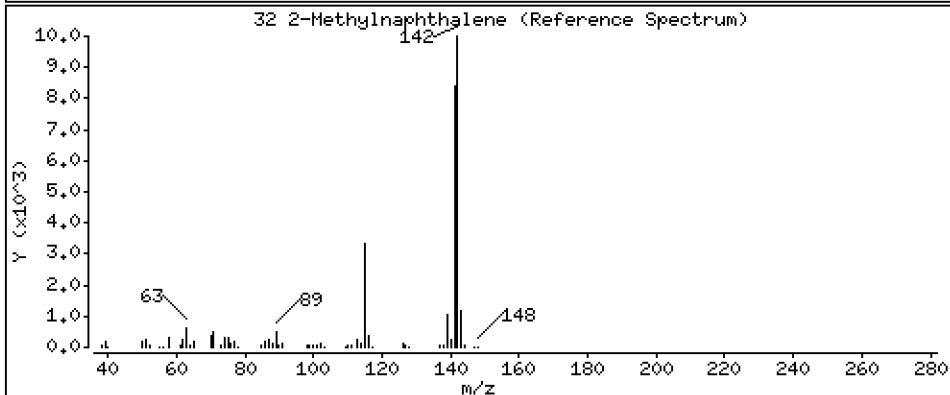
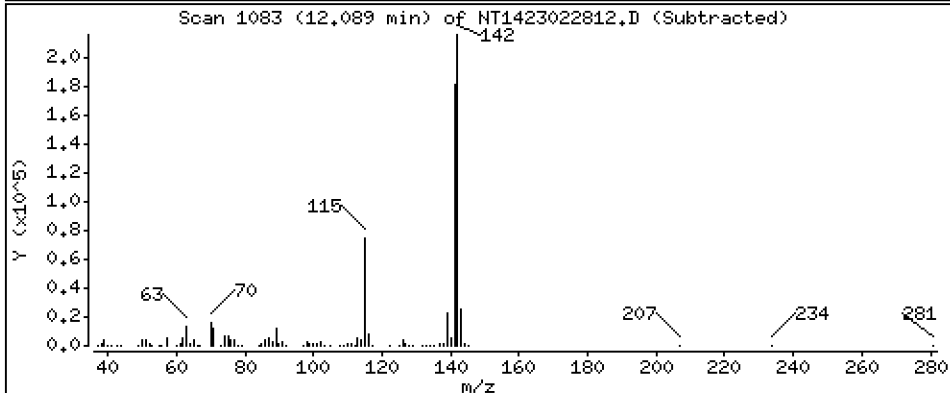
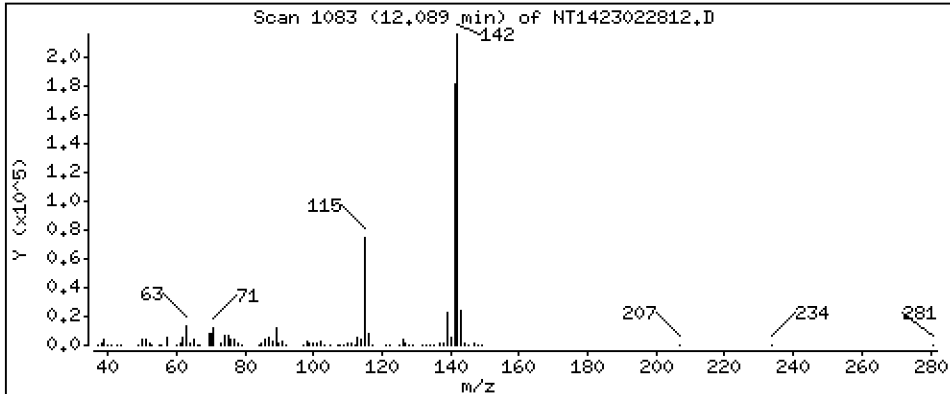
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 4,625 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

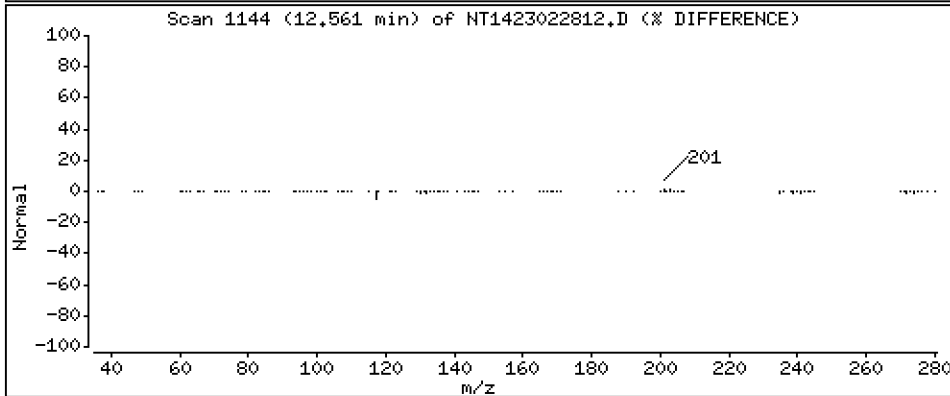
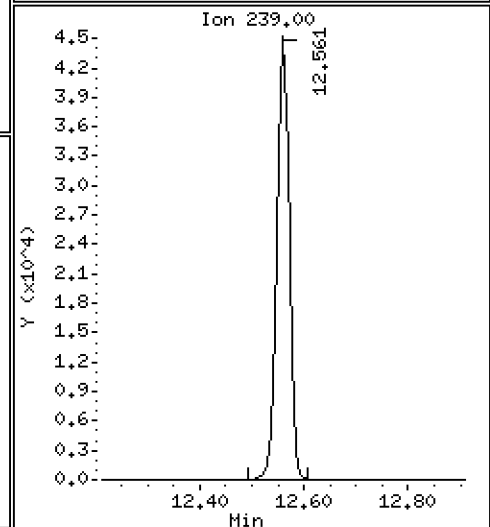
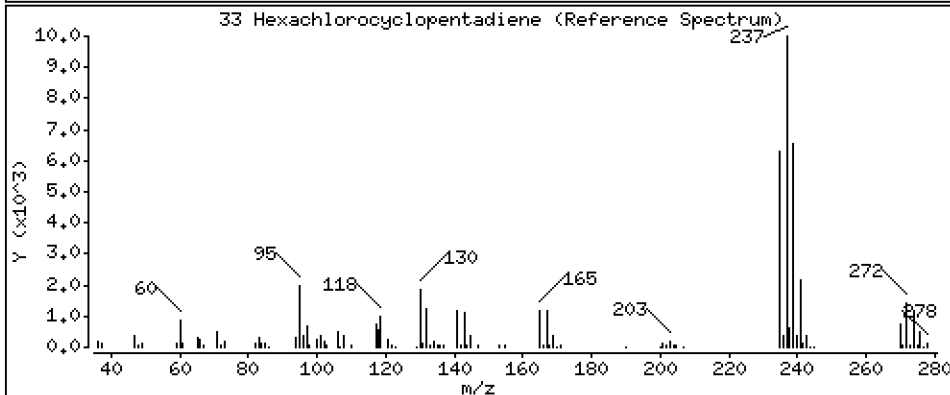
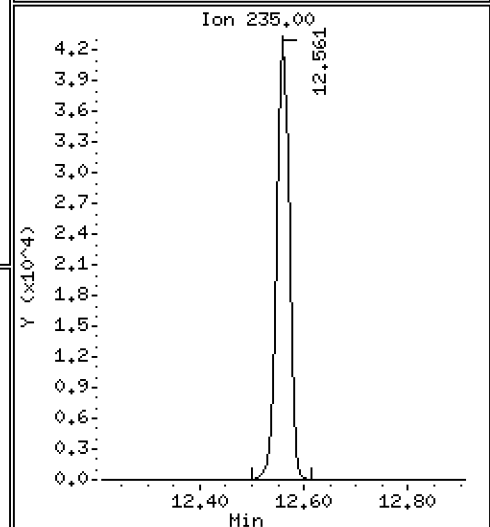
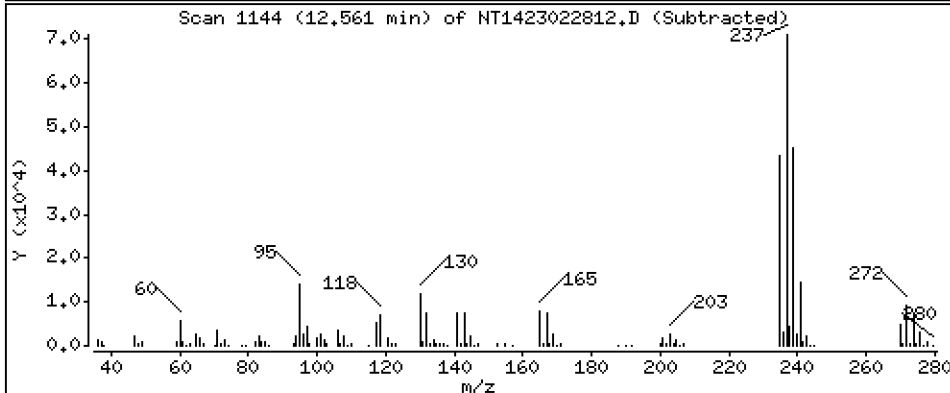
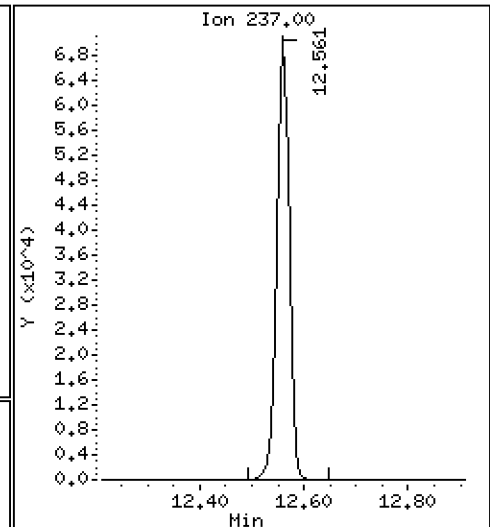
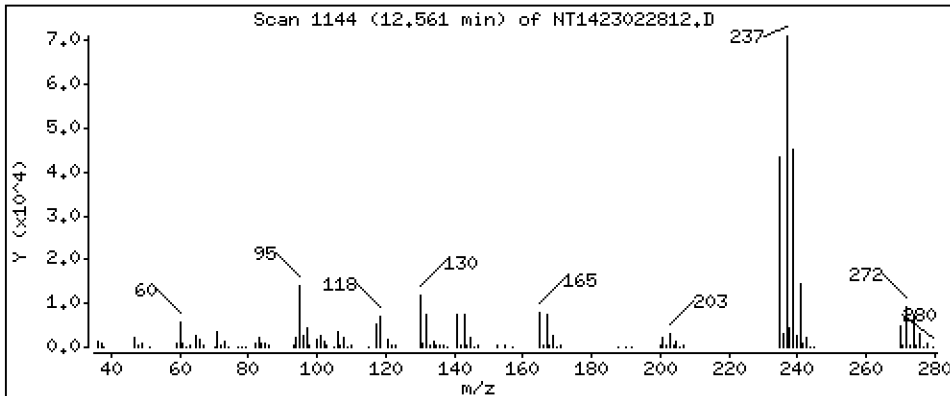
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

33 Hexachlorocyclopentadiene

Concentration: 4,533 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

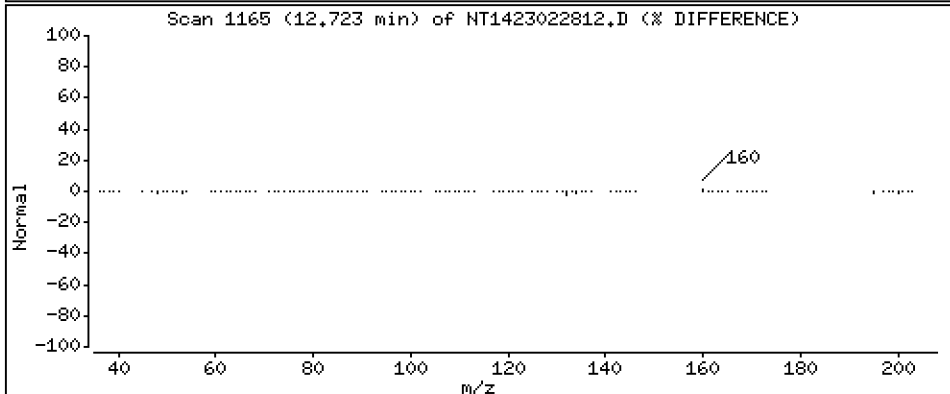
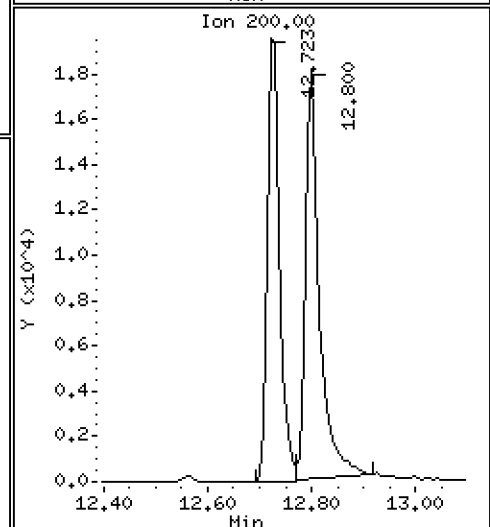
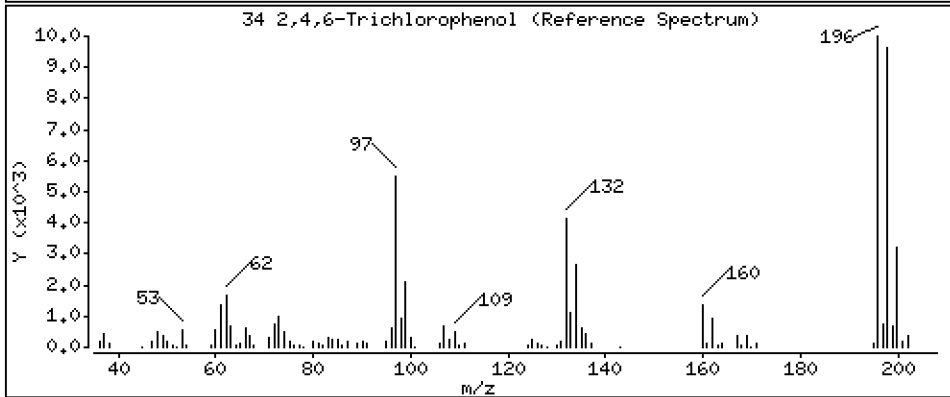
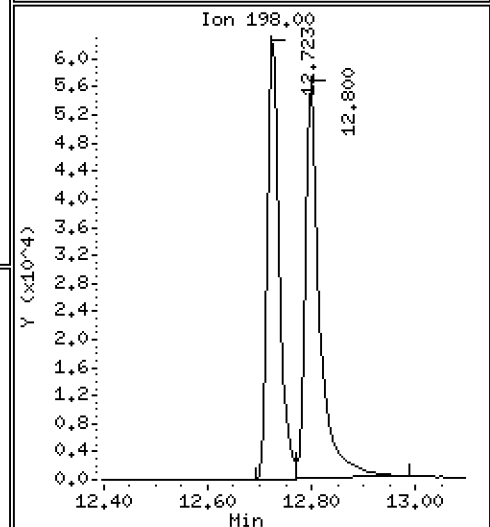
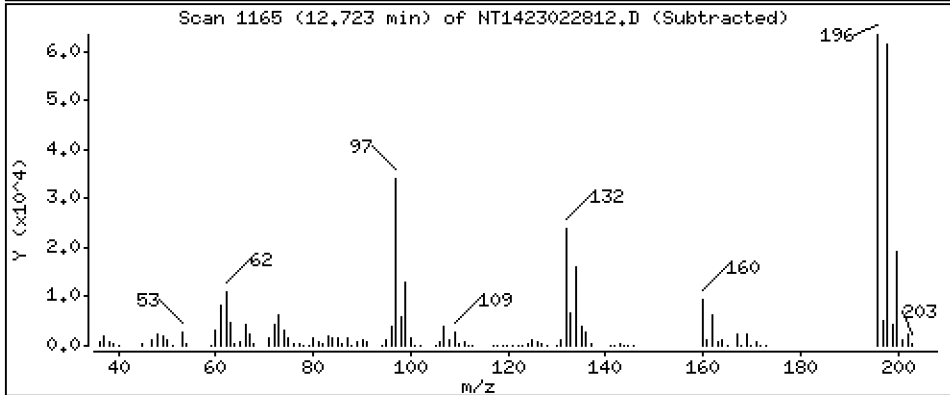
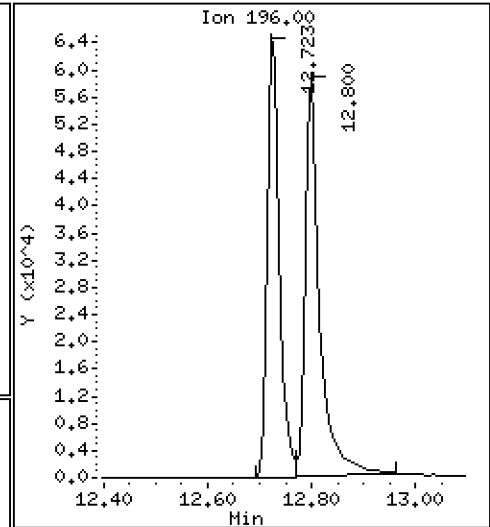
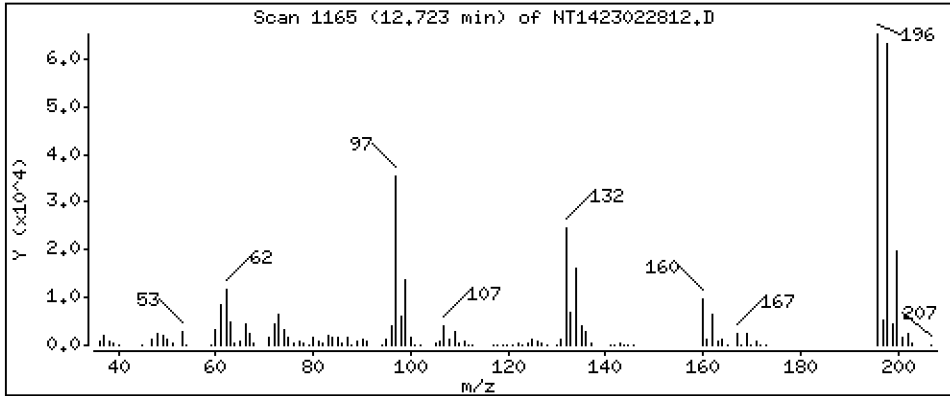
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

34 2,4,6-Trichlorophenol

Concentration: 4,788 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

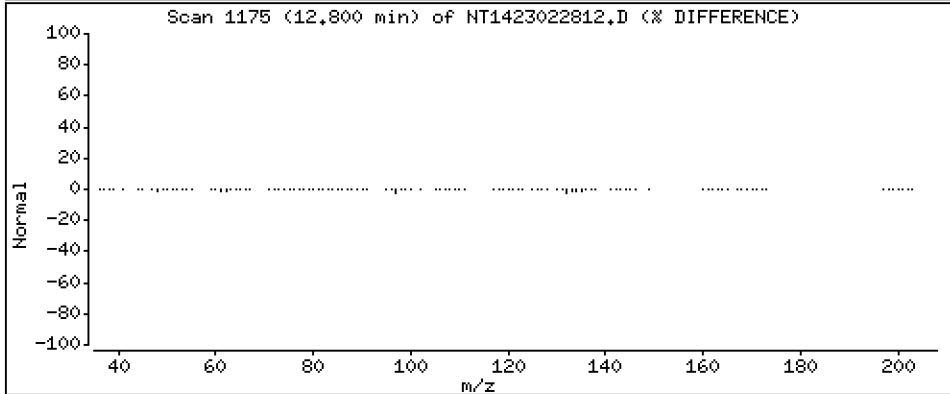
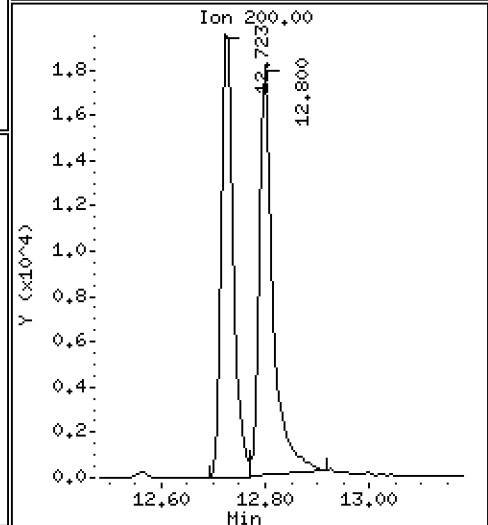
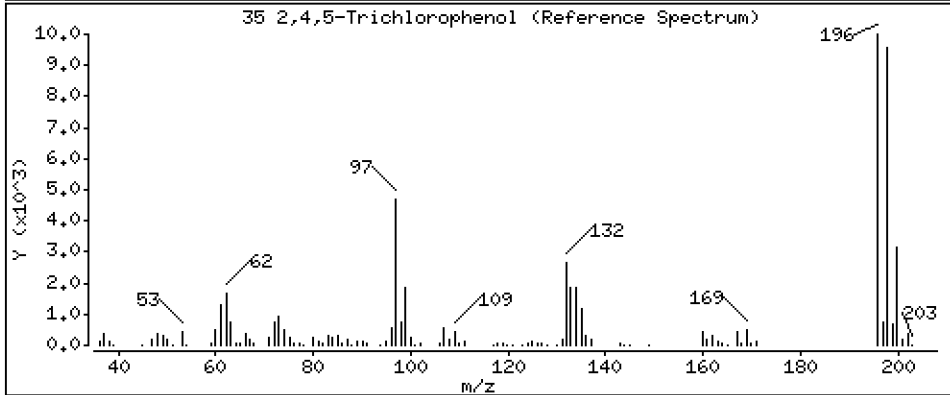
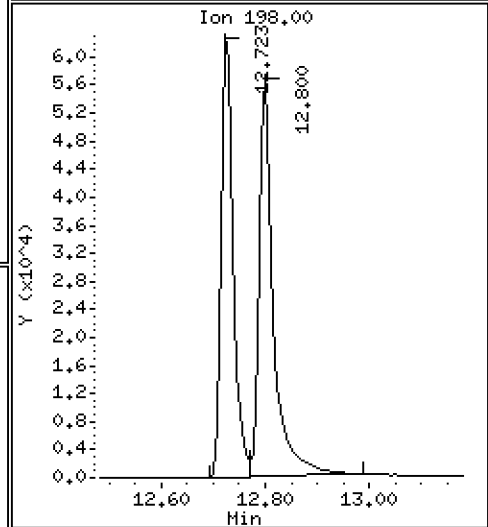
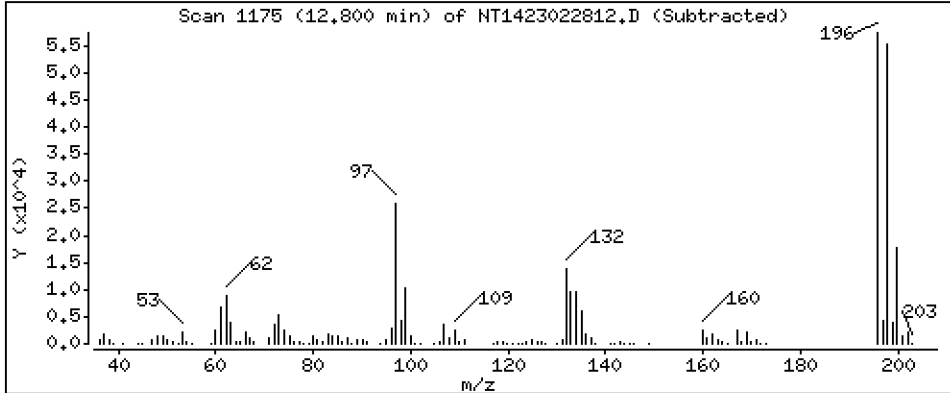
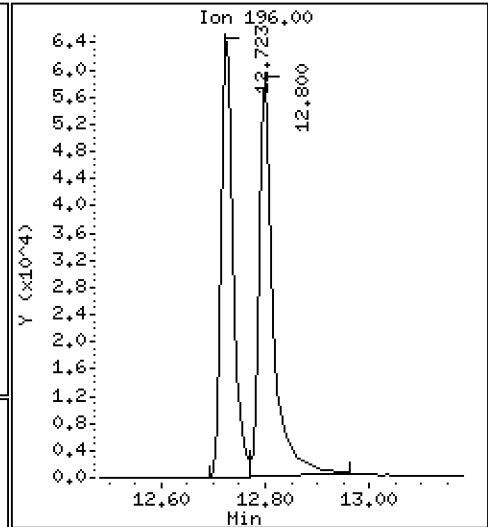
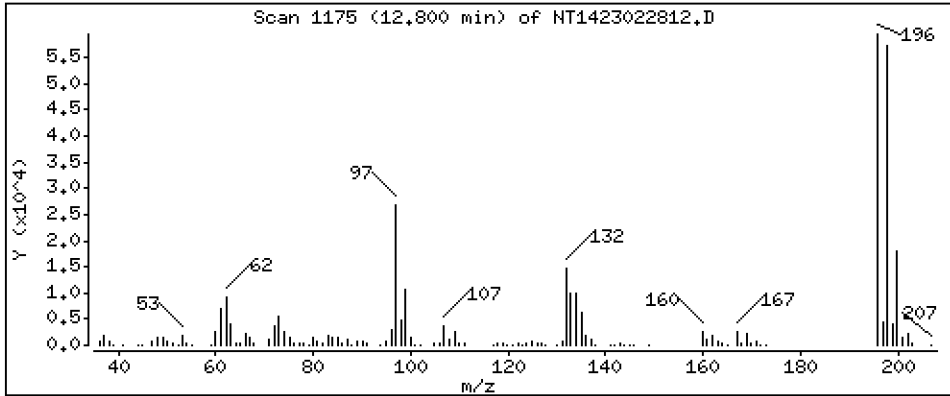
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

35 2,4,5-Trichlorophenol

Concentration: 4,669 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

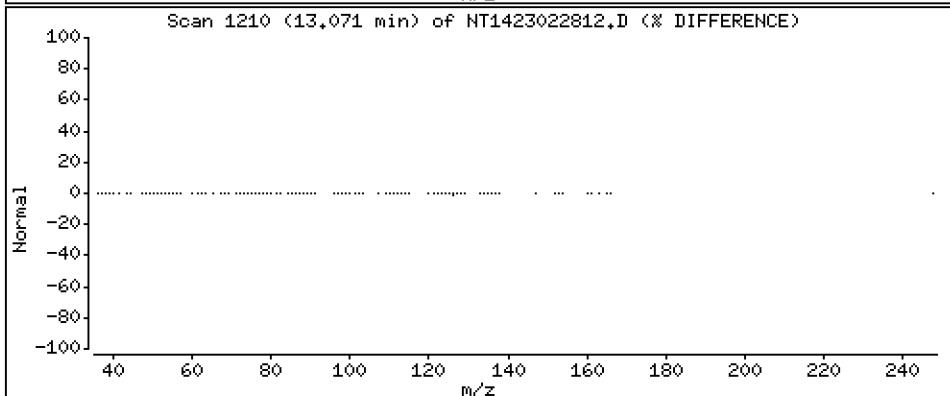
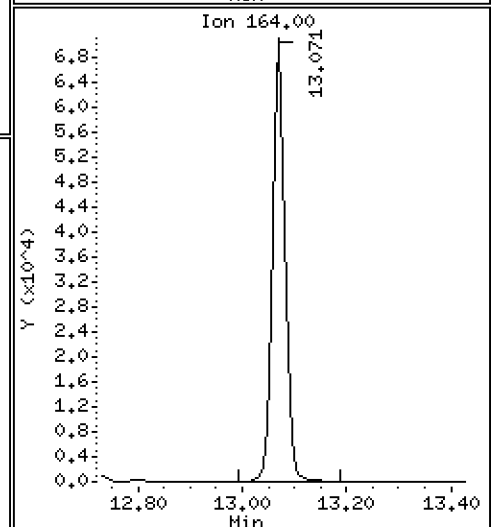
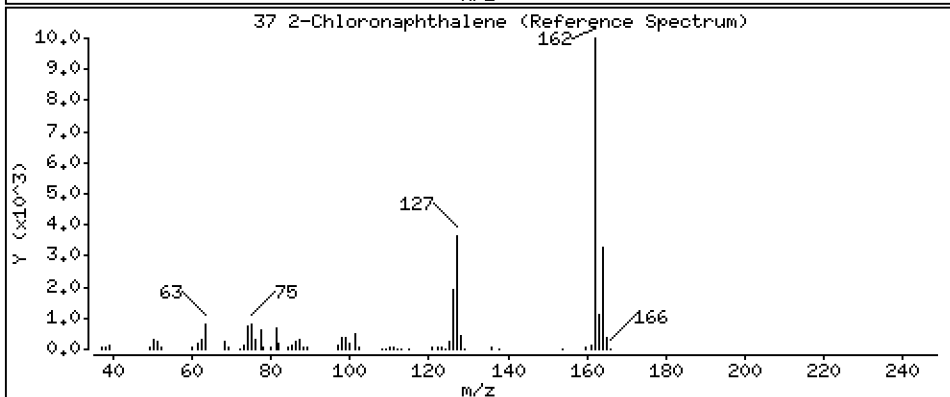
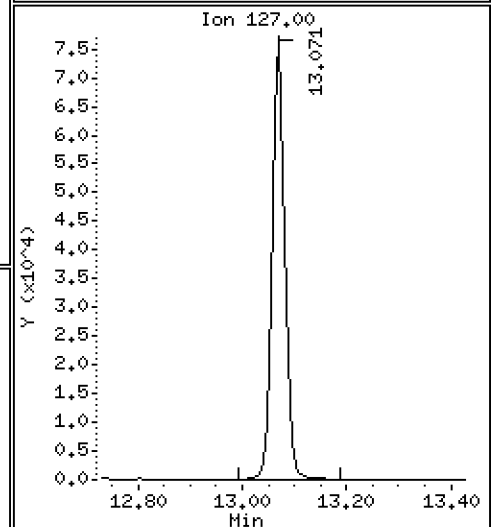
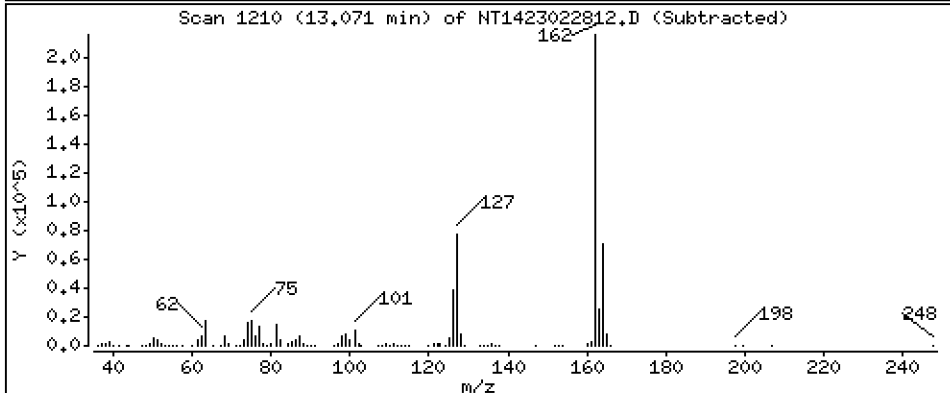
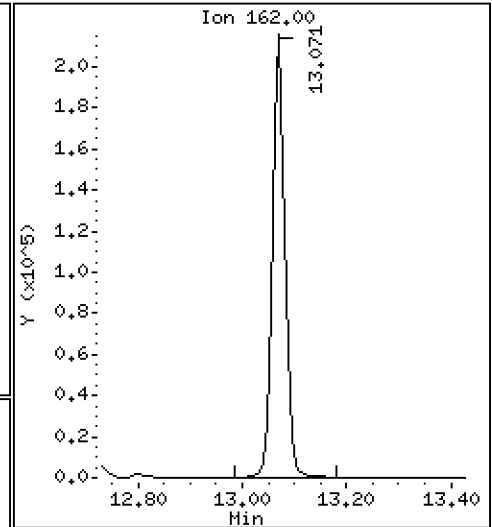
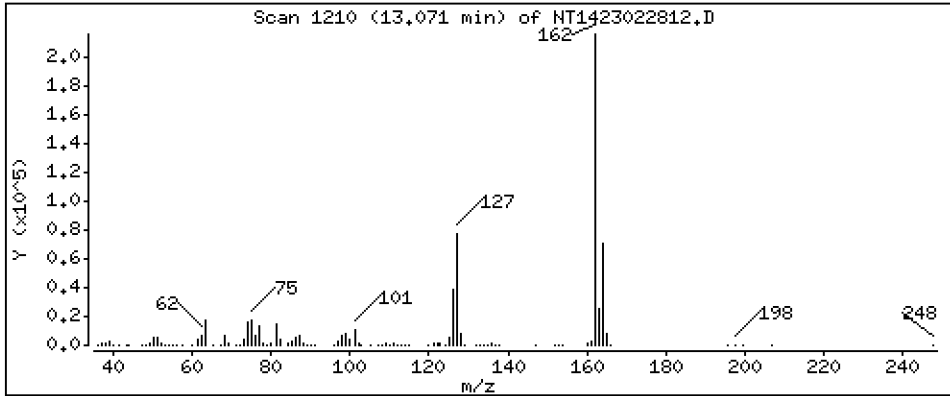
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

37 2-Chloronaphthalene

Concentration: 4,911 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

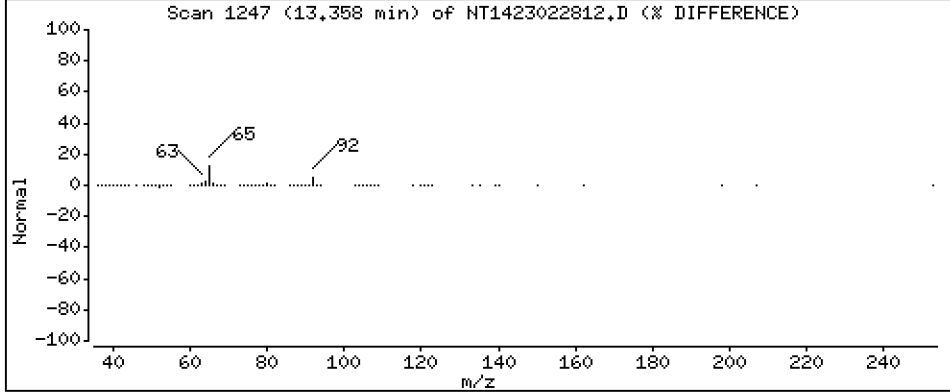
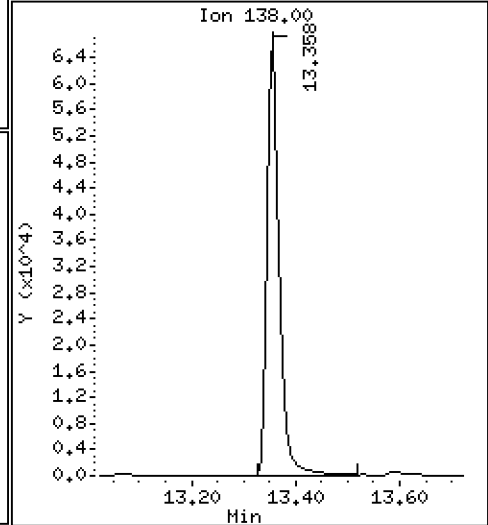
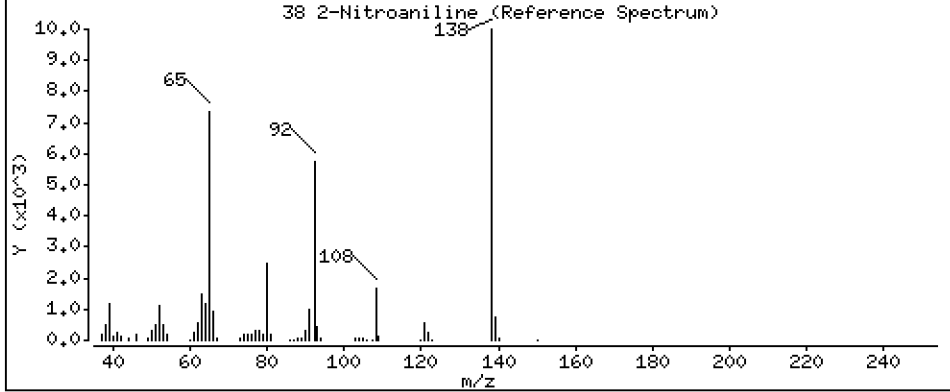
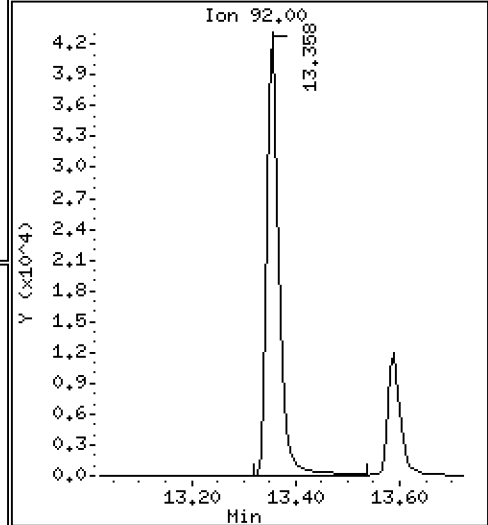
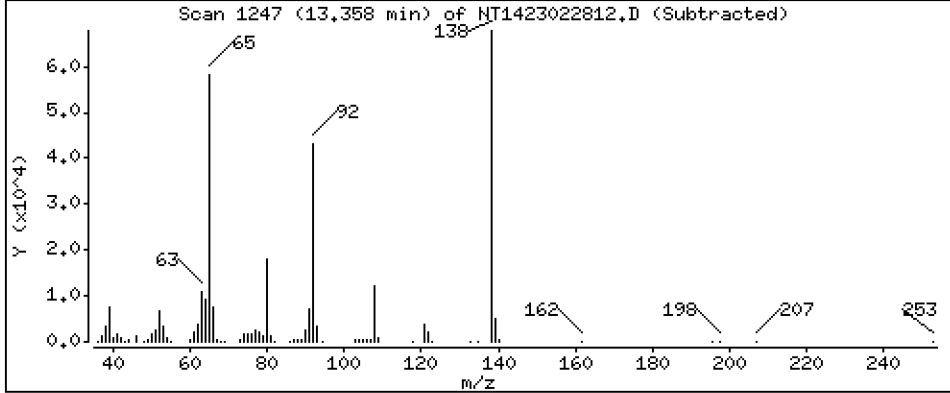
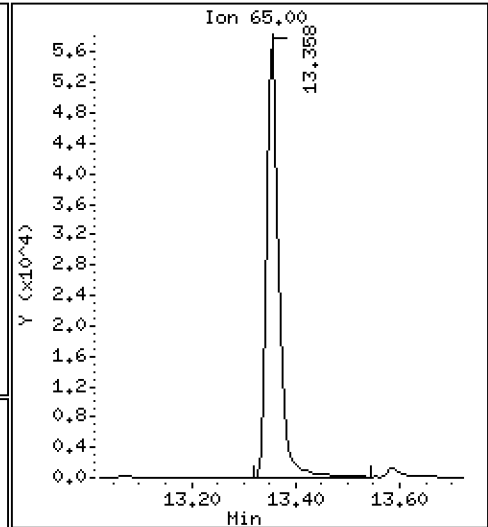
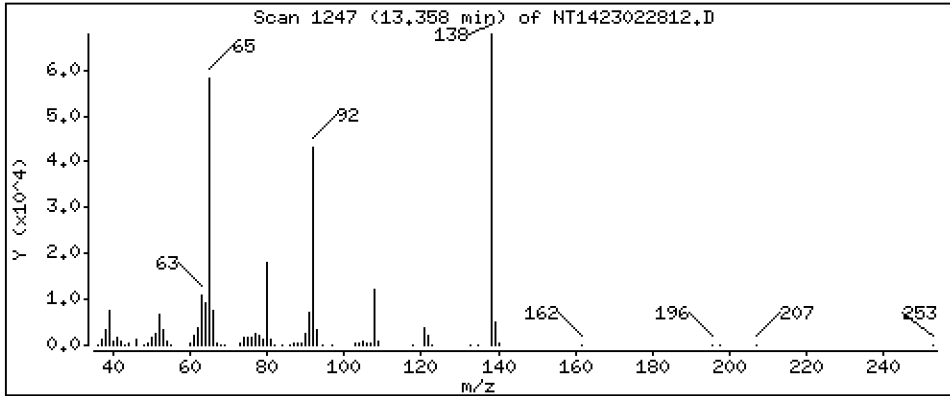
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

38 2-Nitroaniline

Concentration: 4,980 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

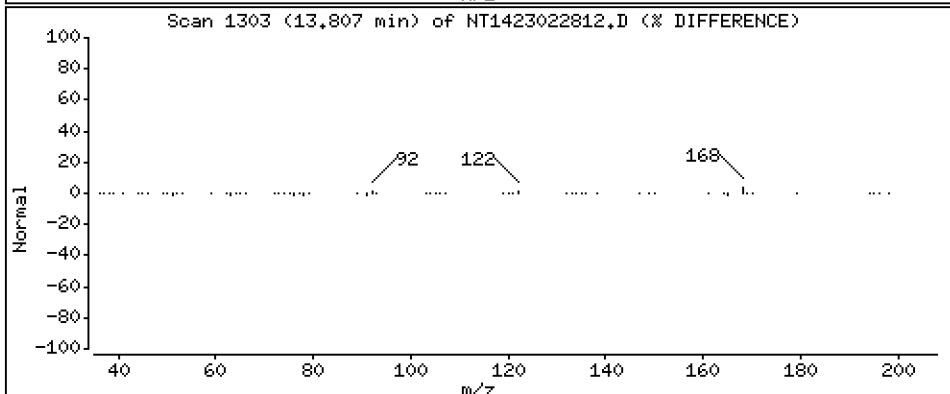
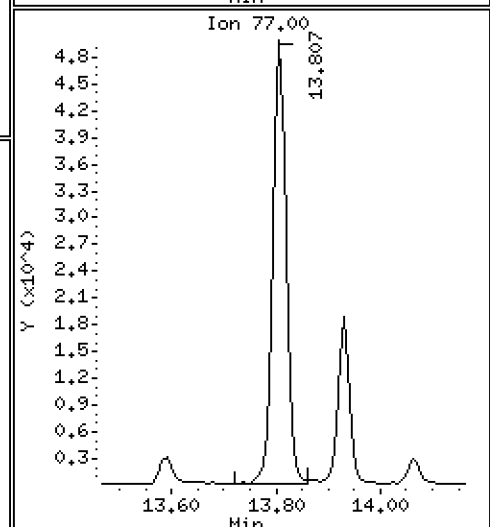
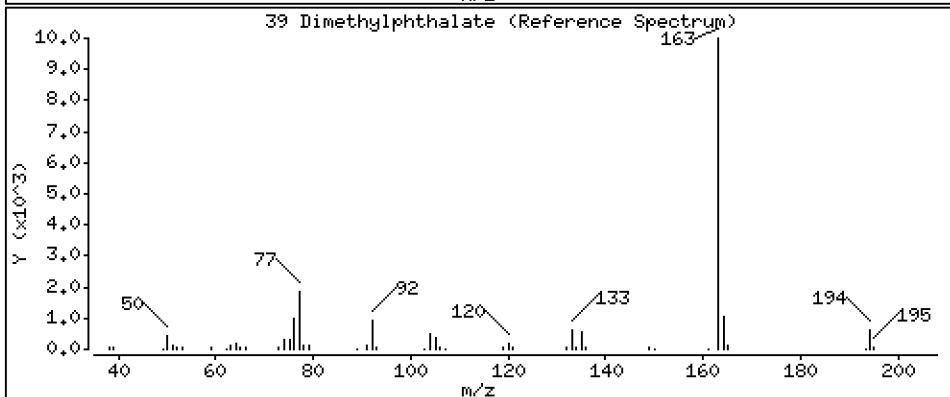
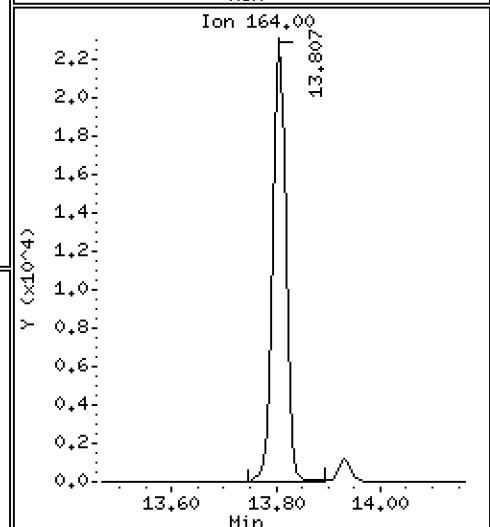
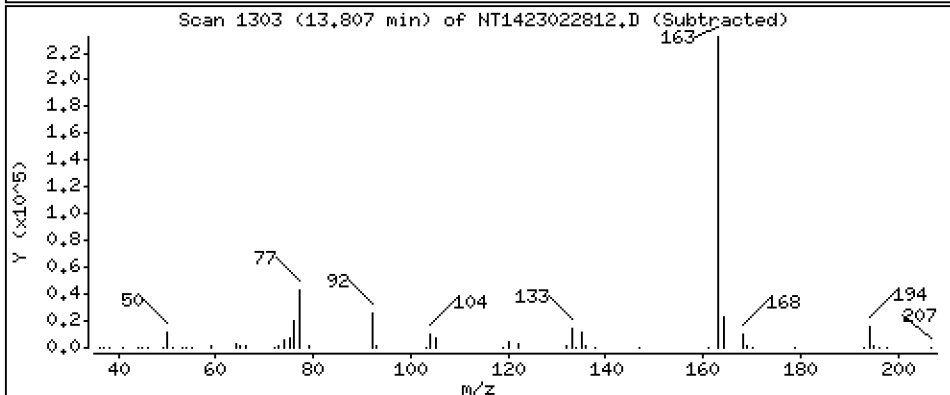
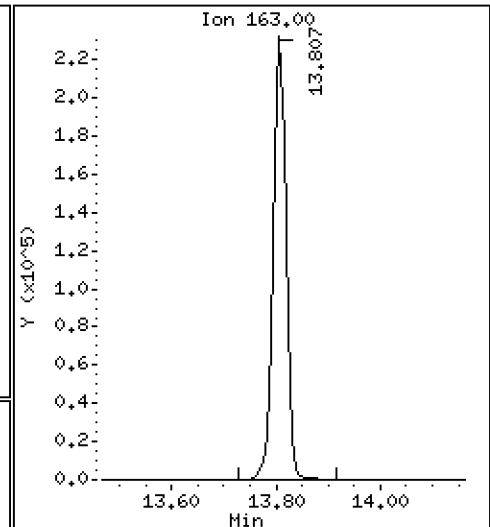
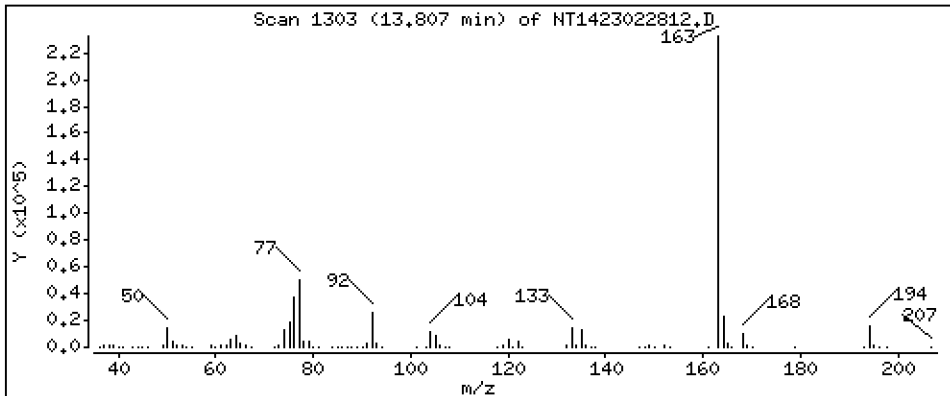
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 5,206 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

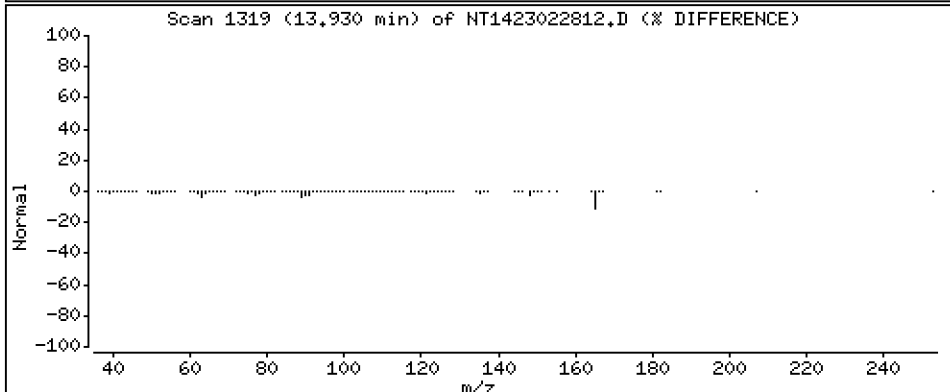
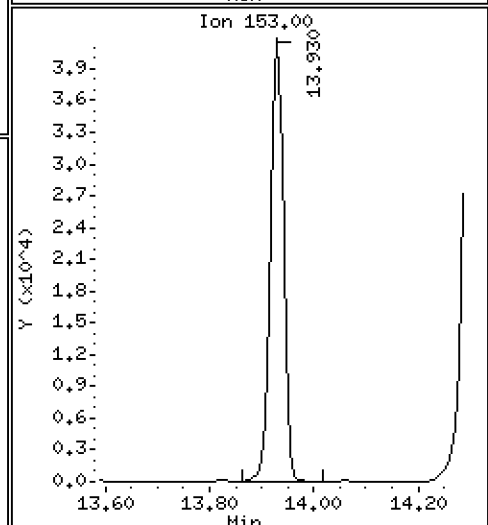
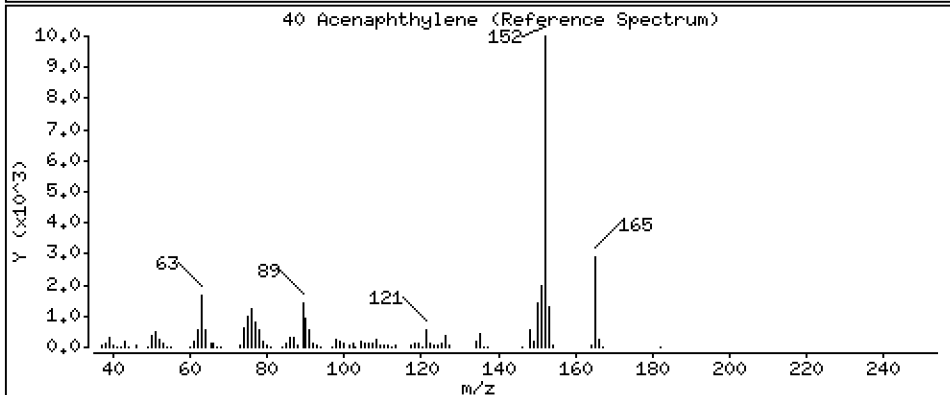
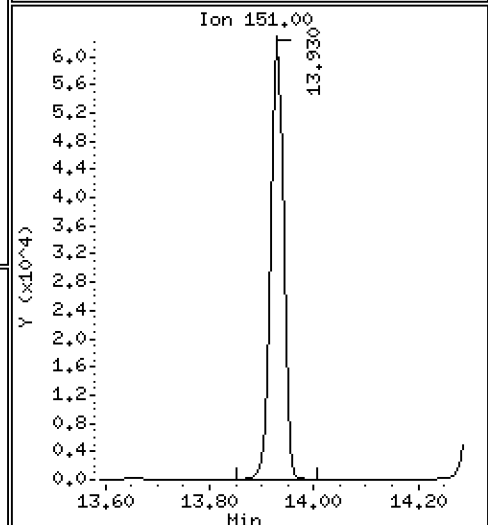
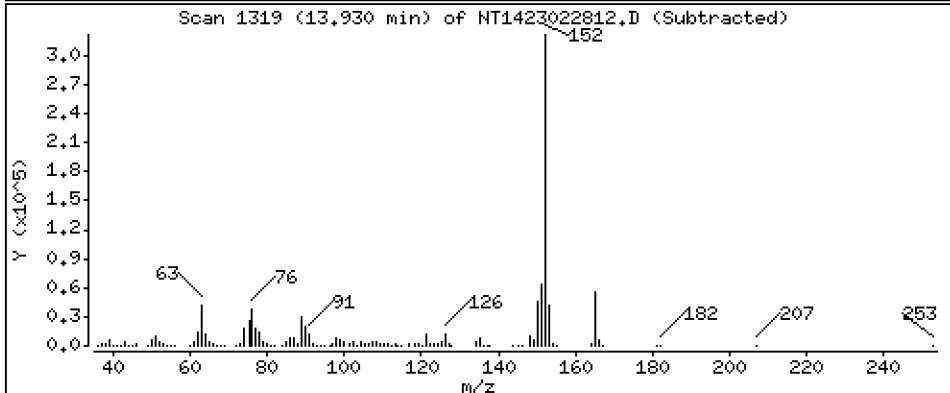
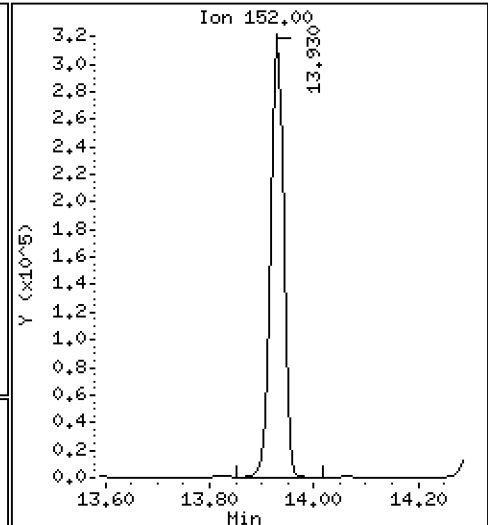
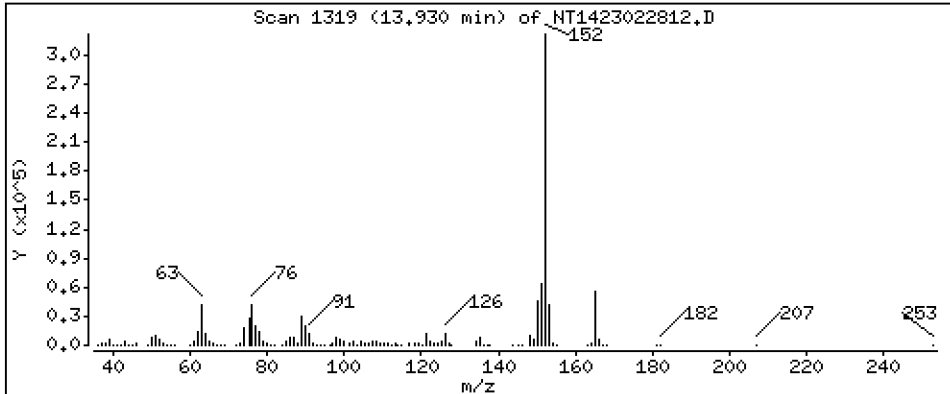
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 4,975 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

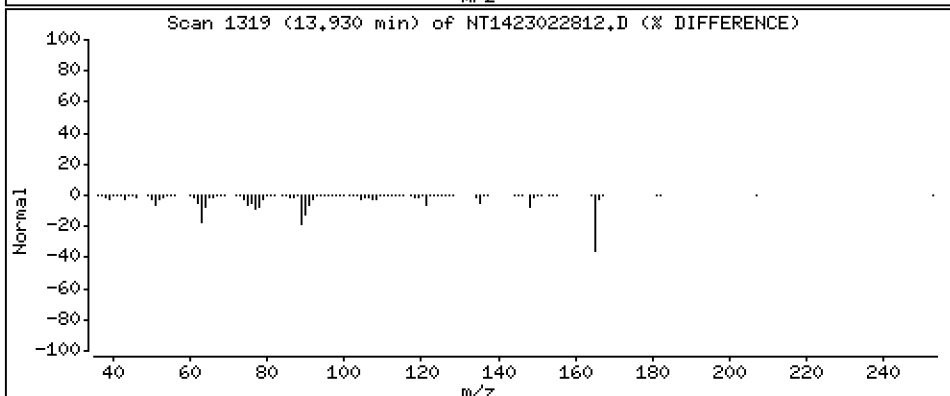
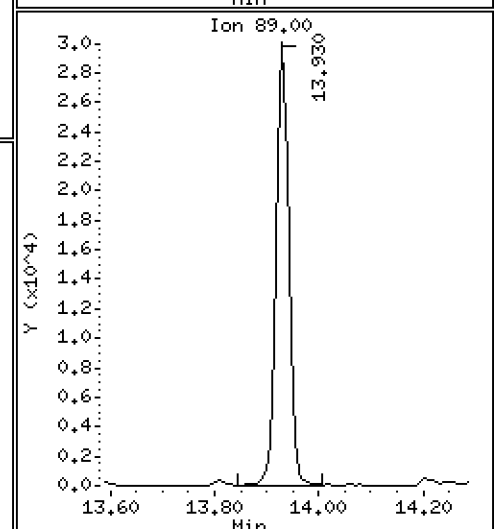
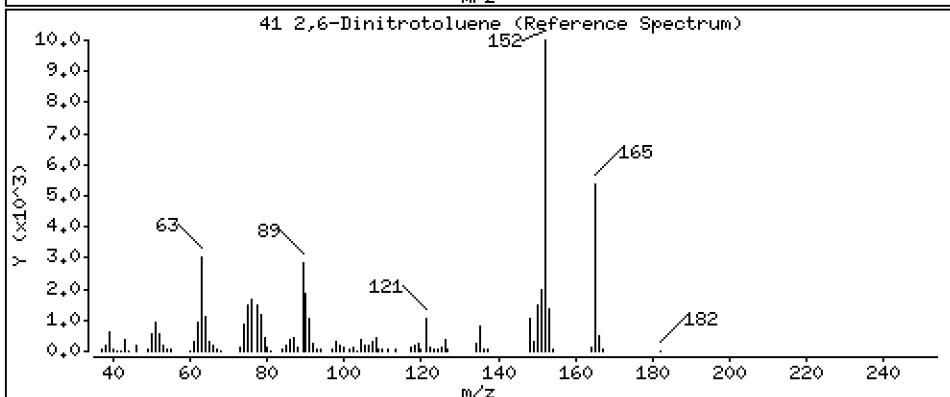
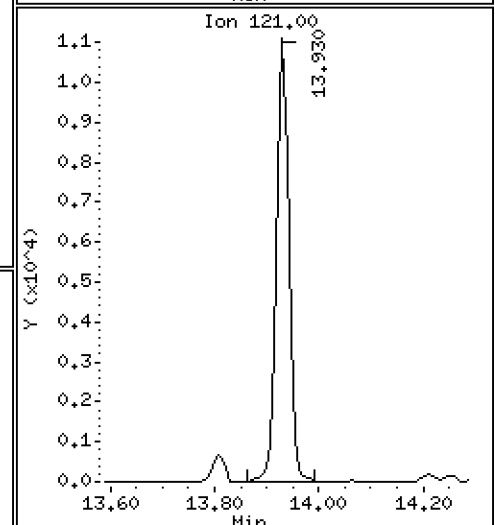
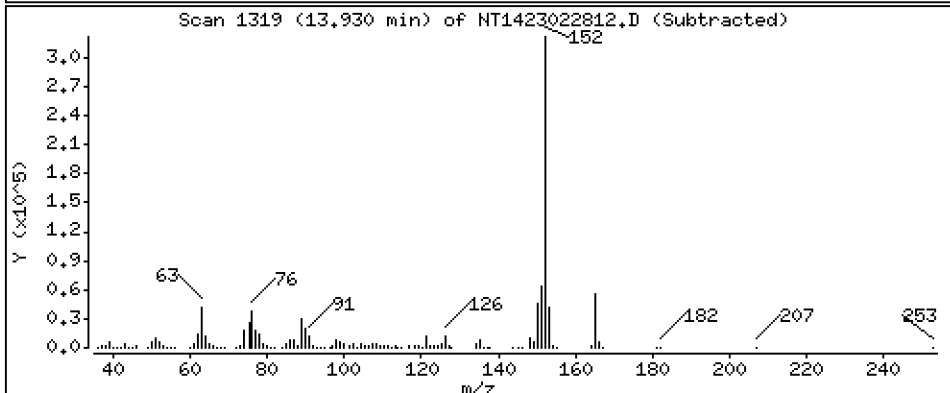
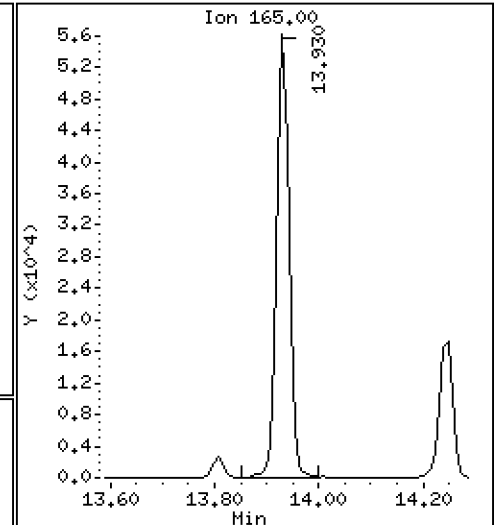
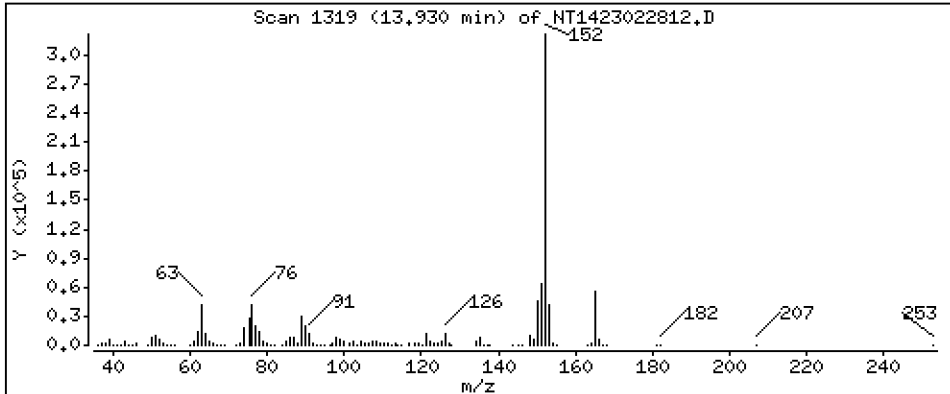
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

41 2,6-Dinitrotoluene

Concentration: 5,227 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

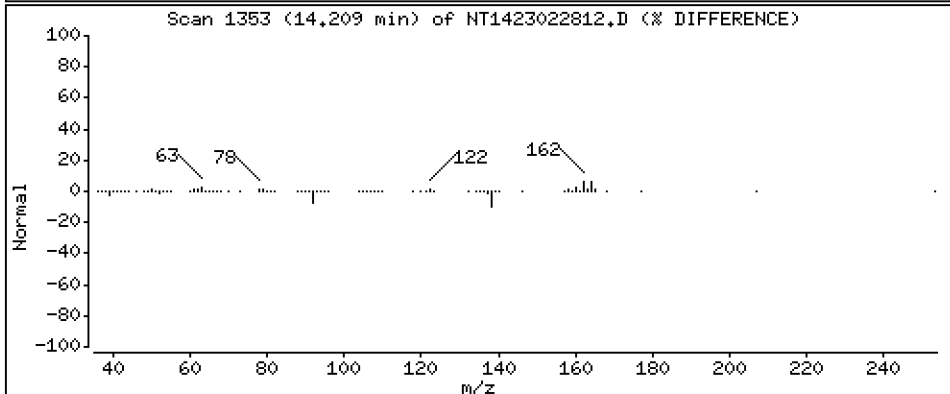
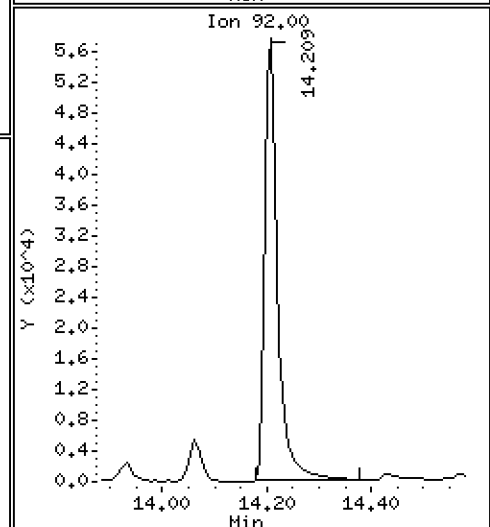
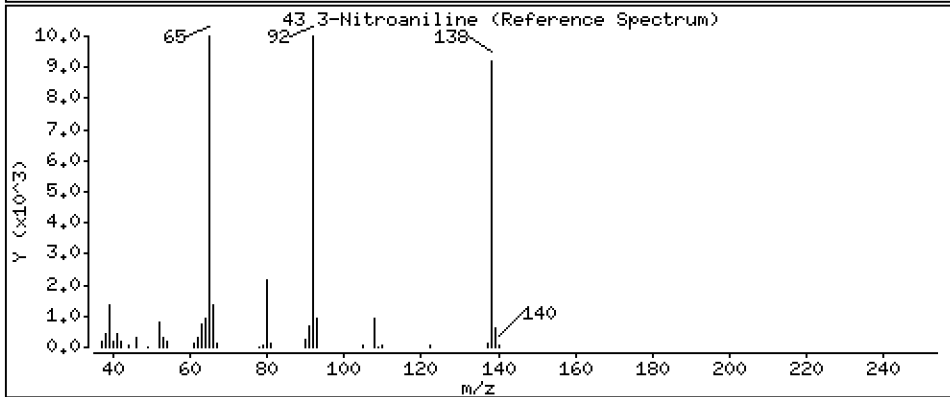
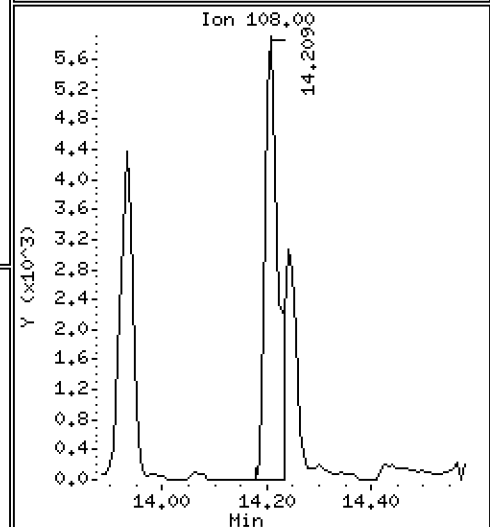
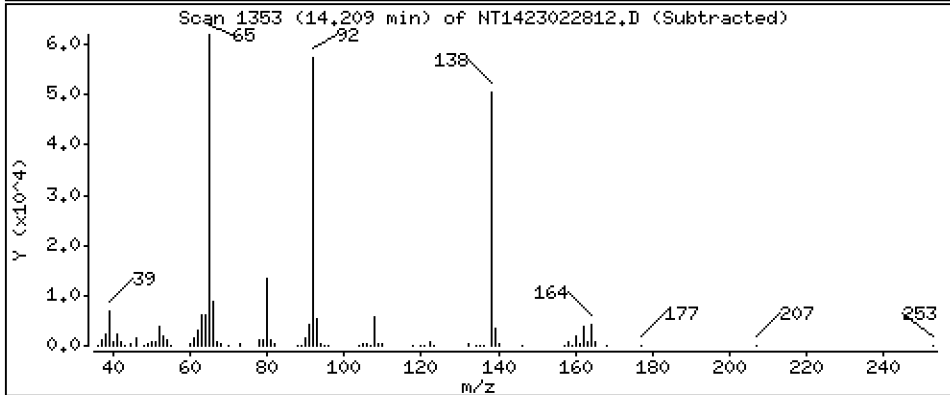
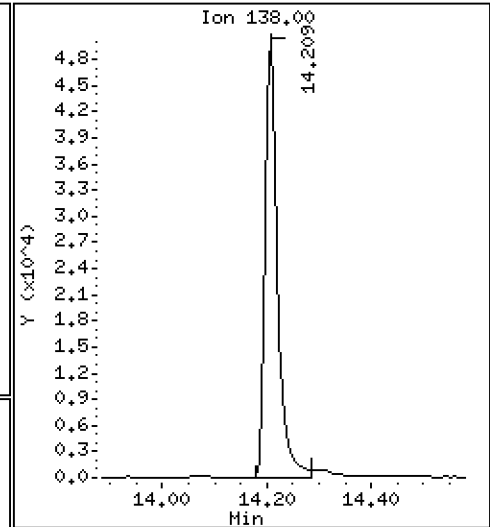
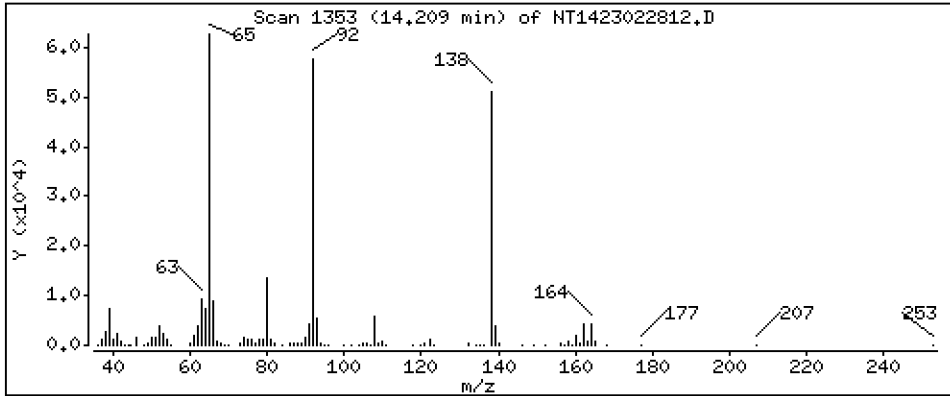
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

43 3-Nitroaniline

Concentration: 4,869 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

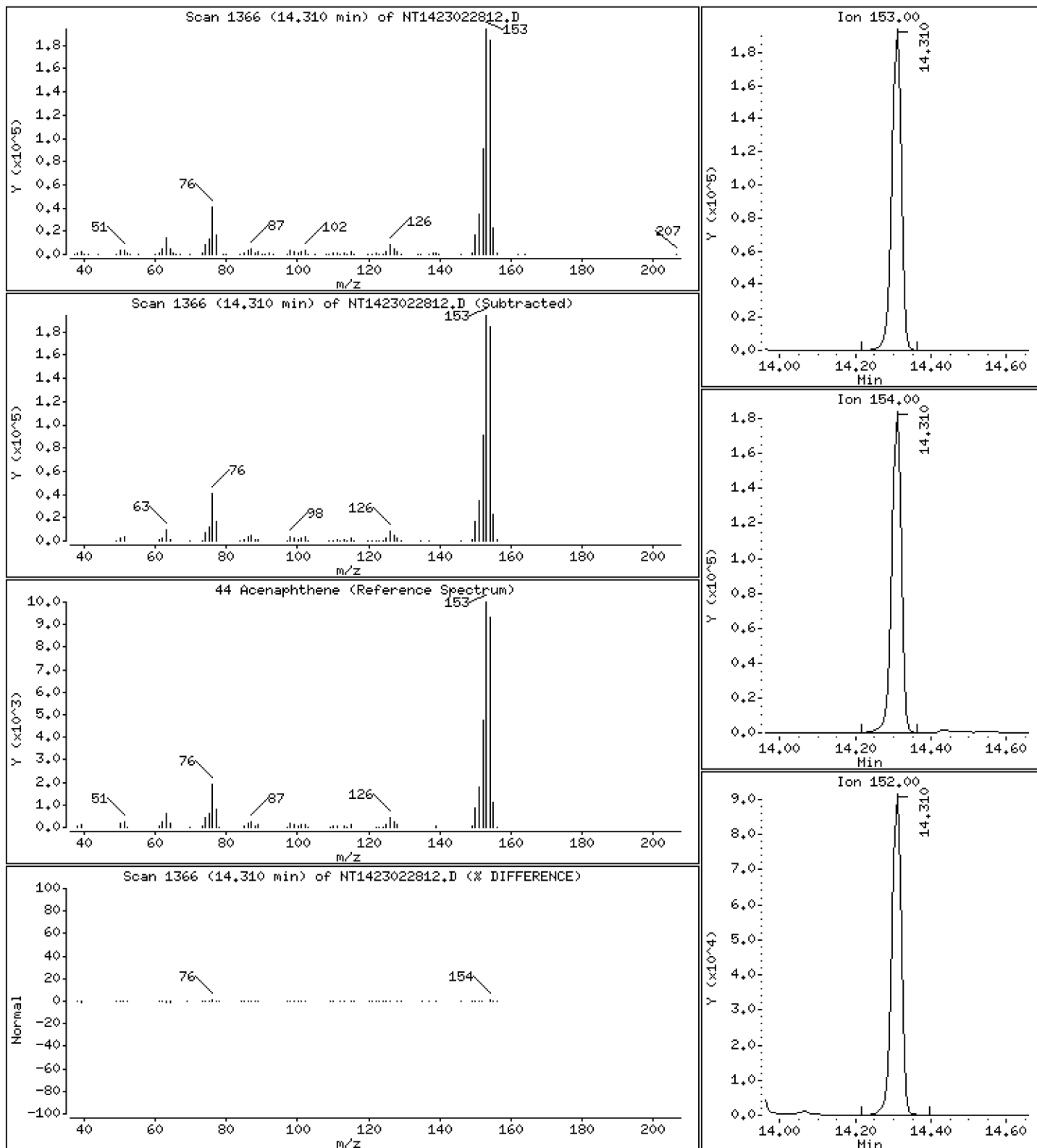
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

44 Acenaphthene

Concentration: 4.767 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

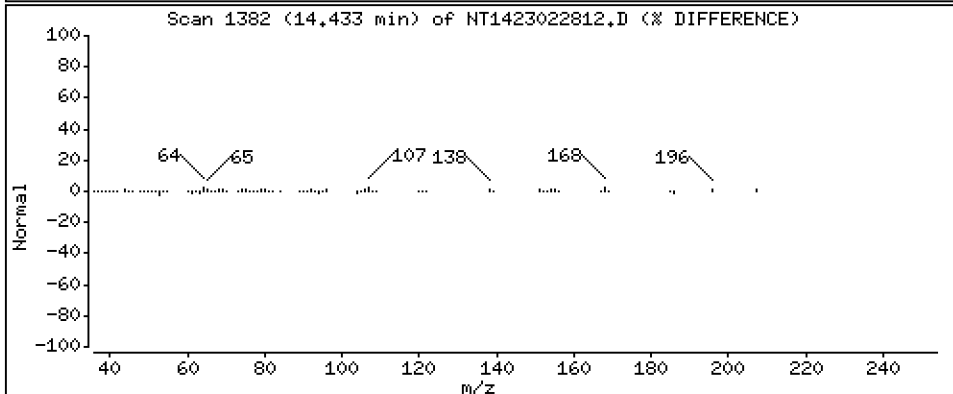
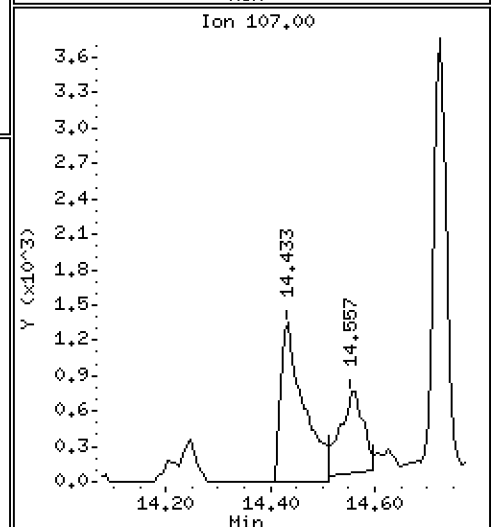
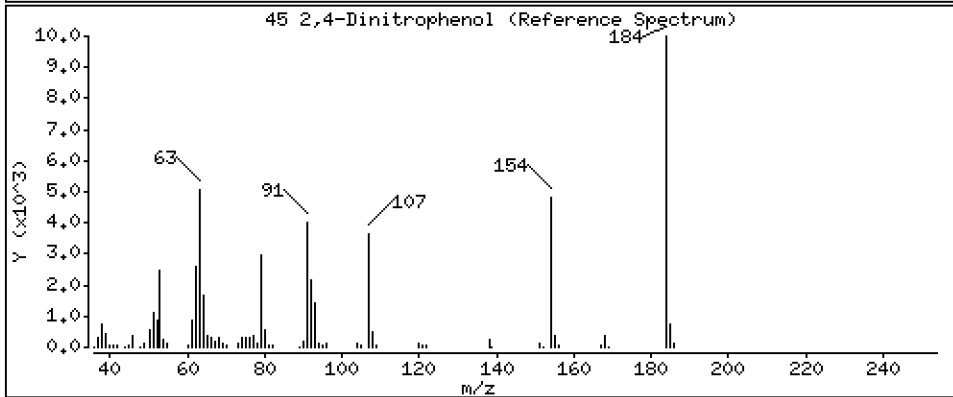
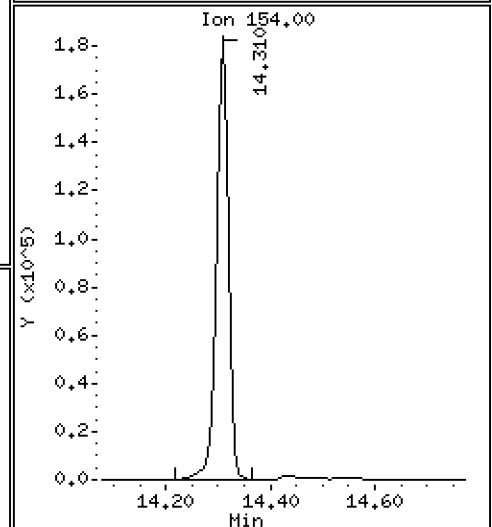
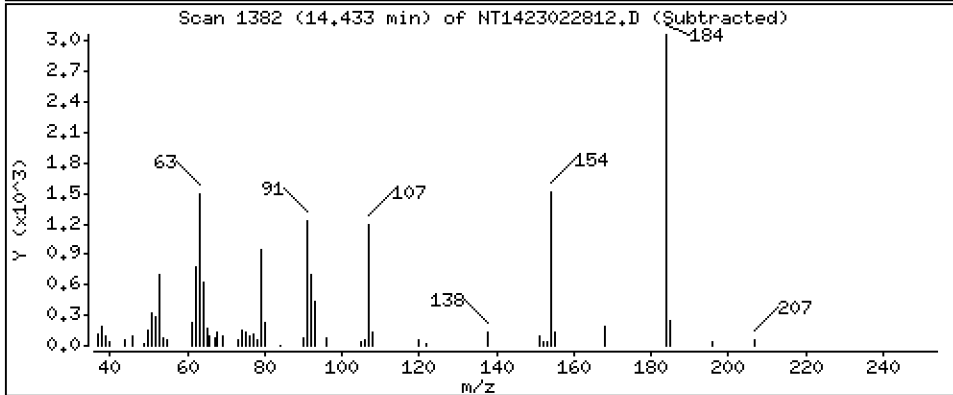
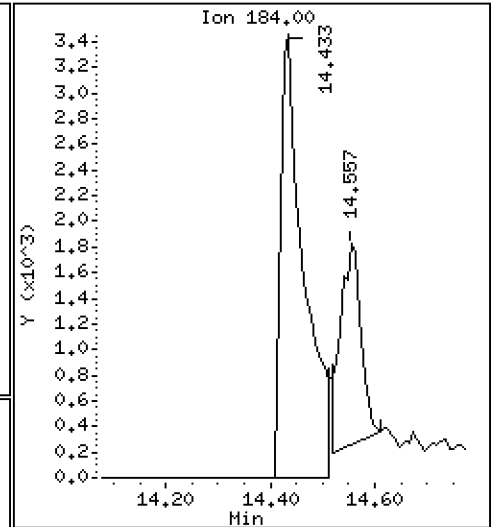
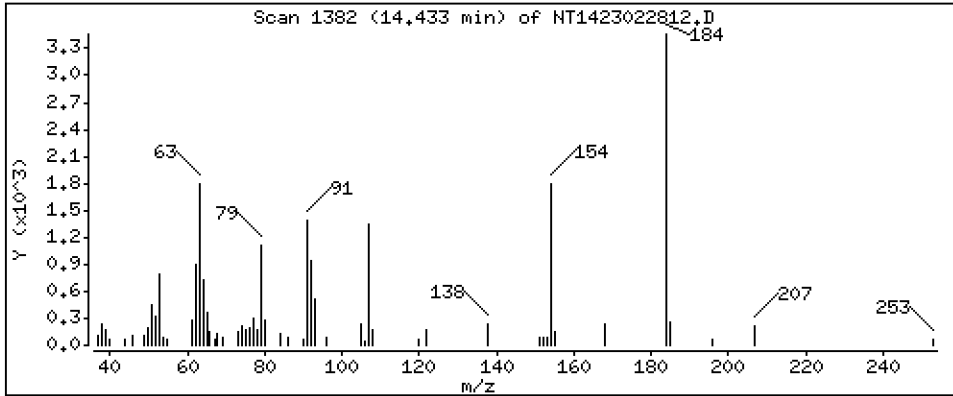
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

45 2,4-Dinitrophenol

Concentration: 0.9807 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

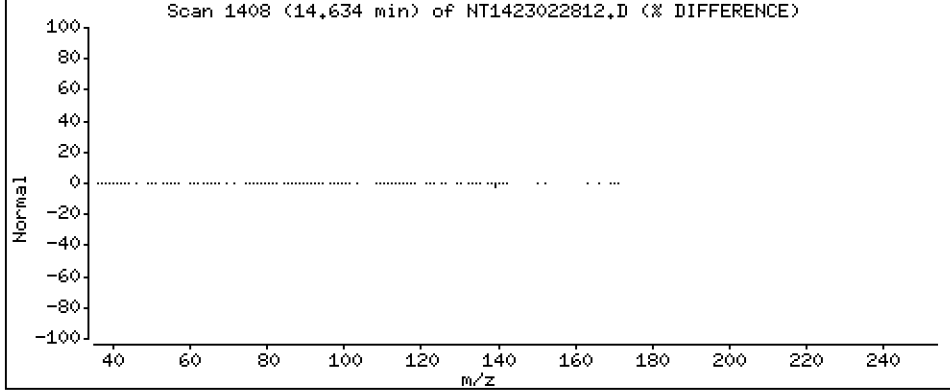
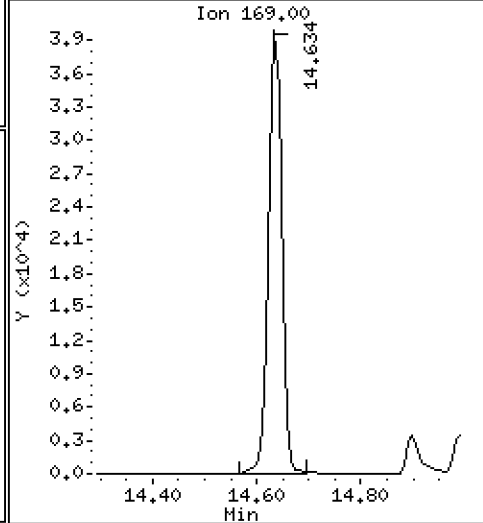
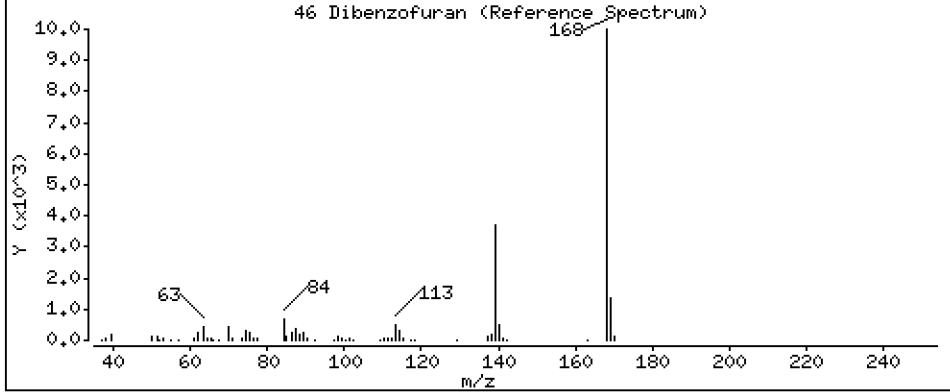
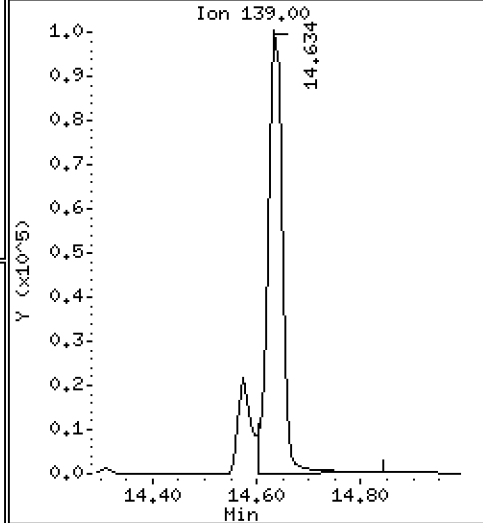
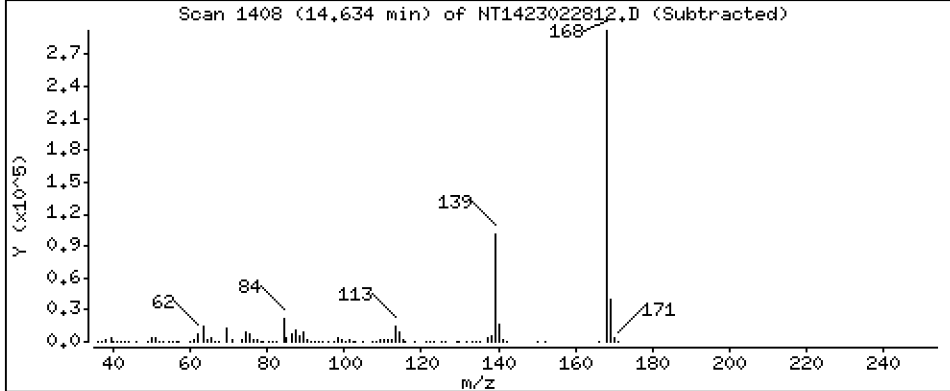
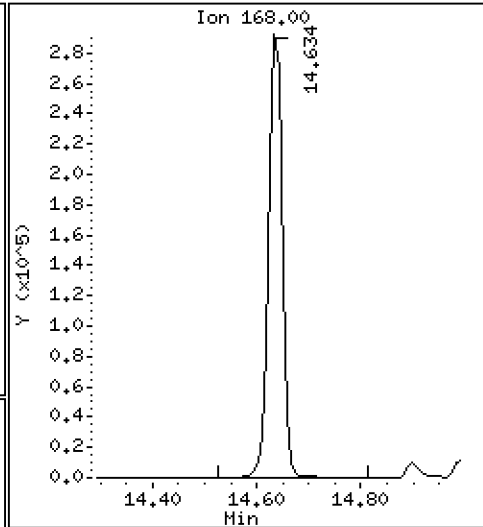
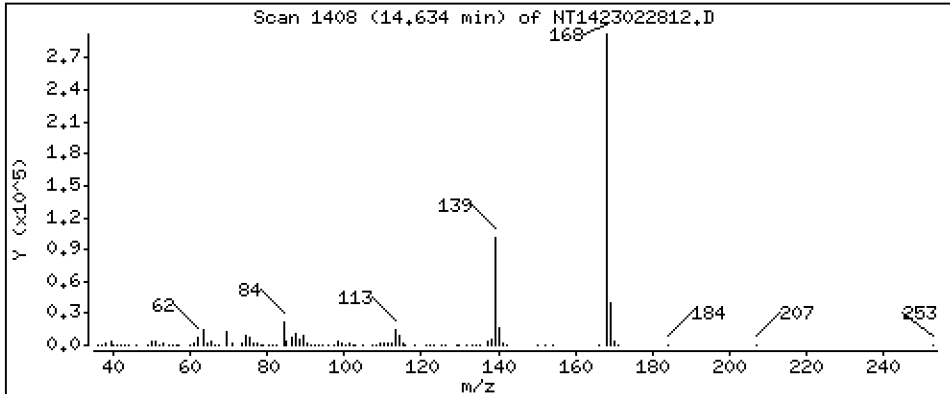
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 4,718 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

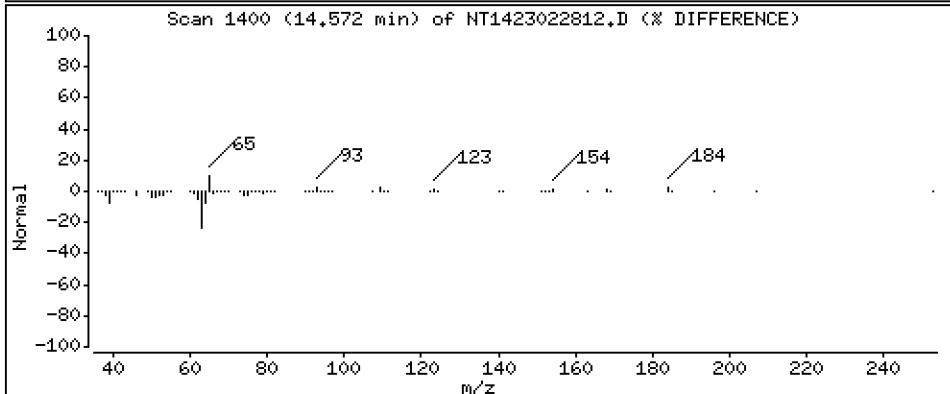
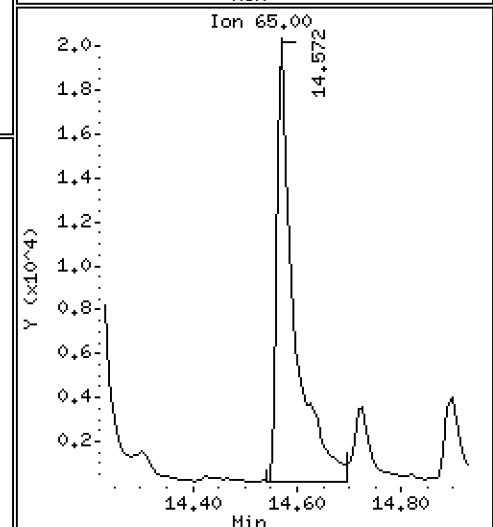
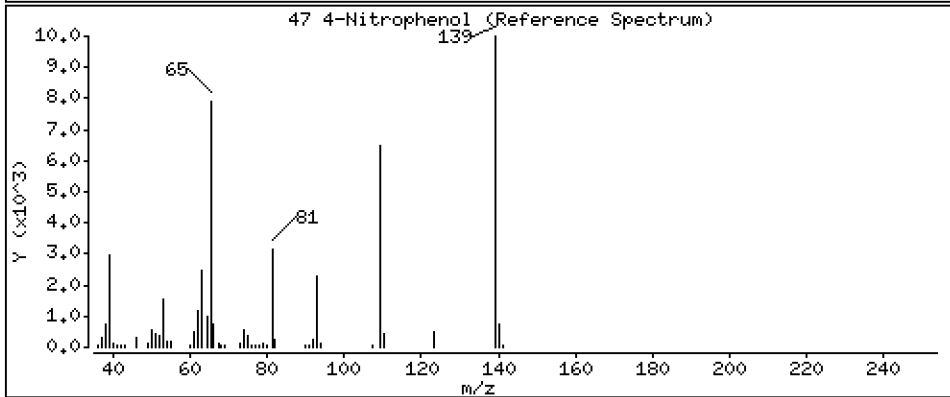
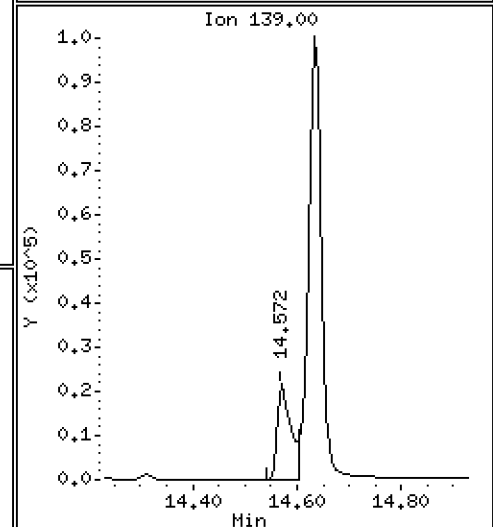
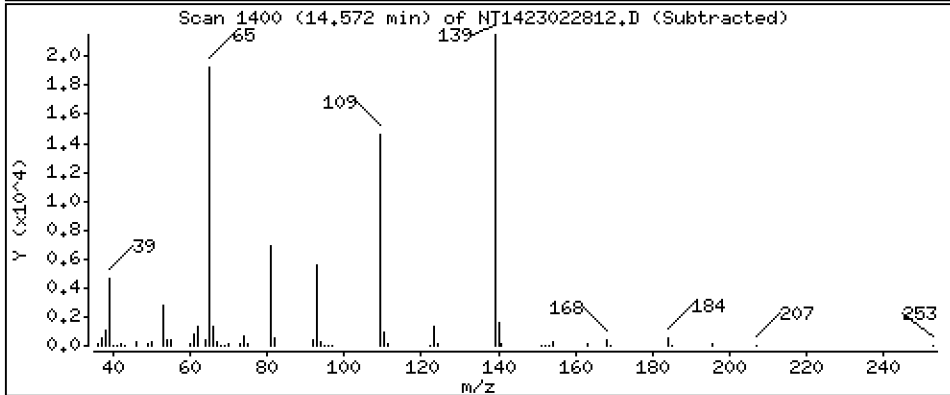
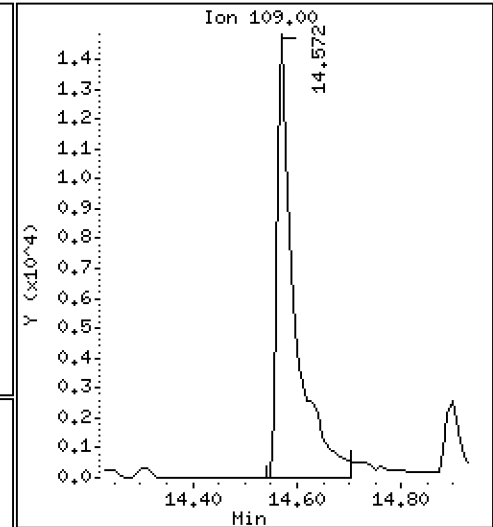
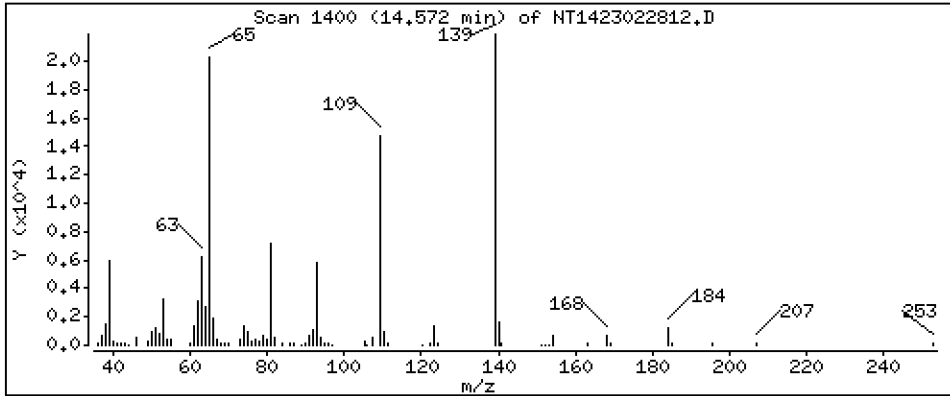
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

47 4-Nitrophenol

Concentration: 3,934 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

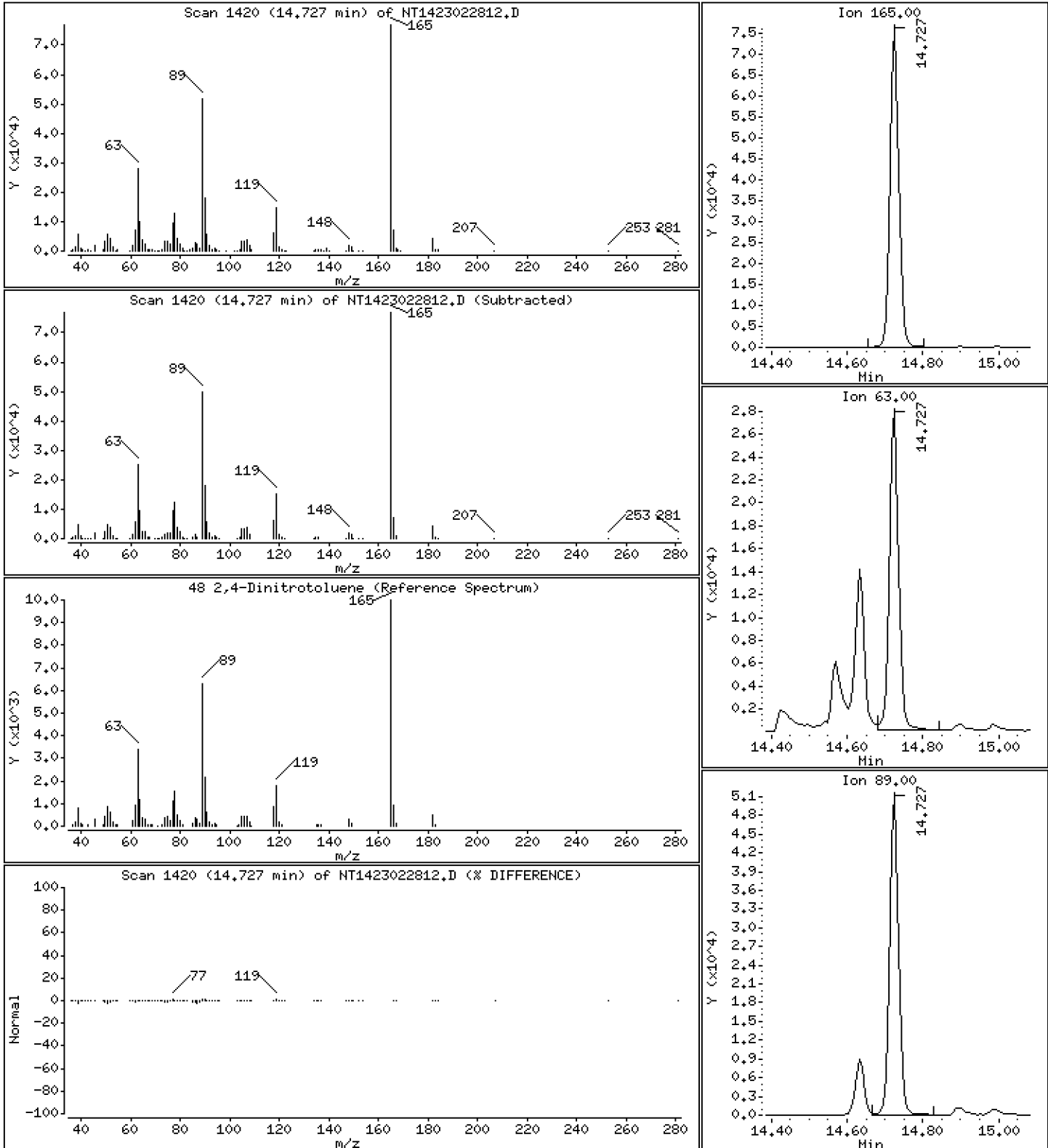
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

48 2,4-Dinitrotoluene

Concentration: 4,941 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

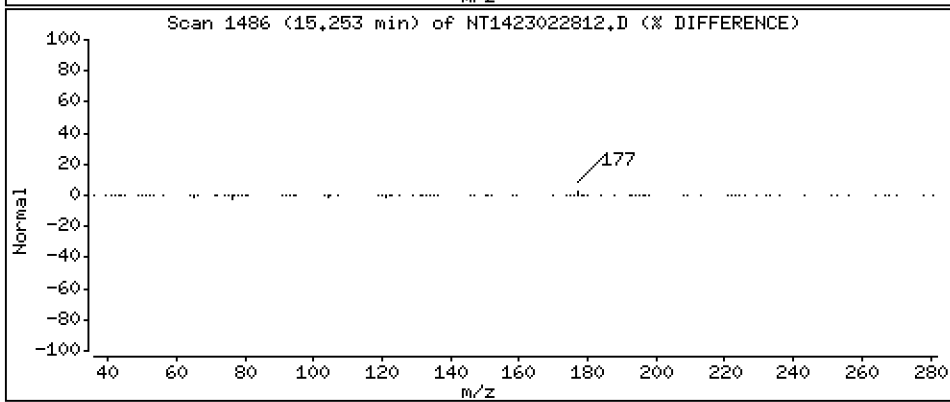
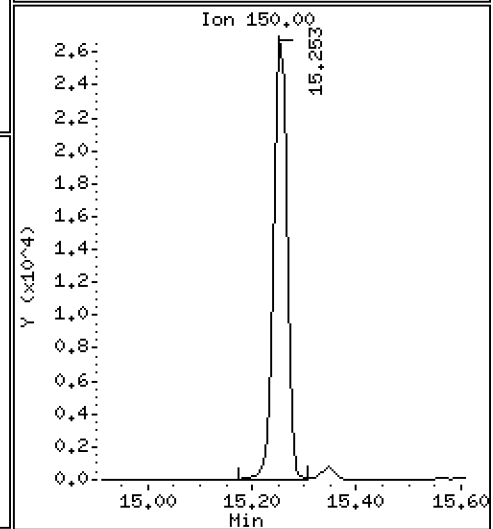
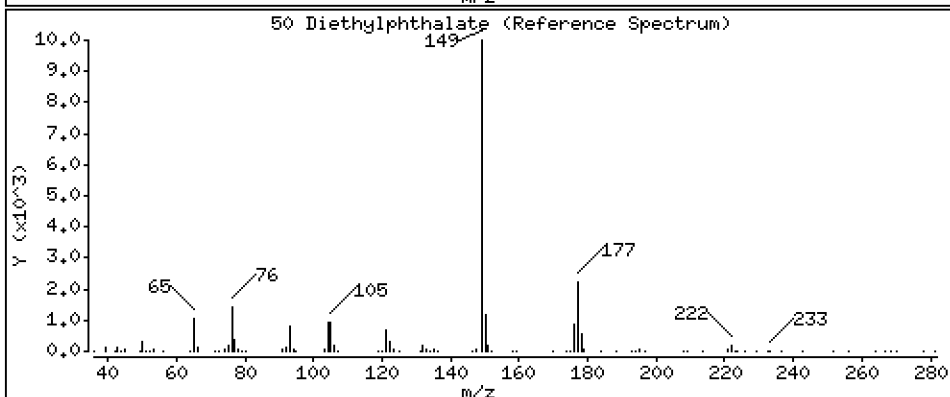
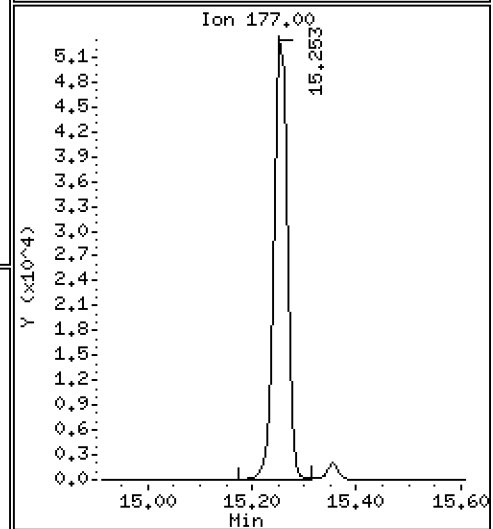
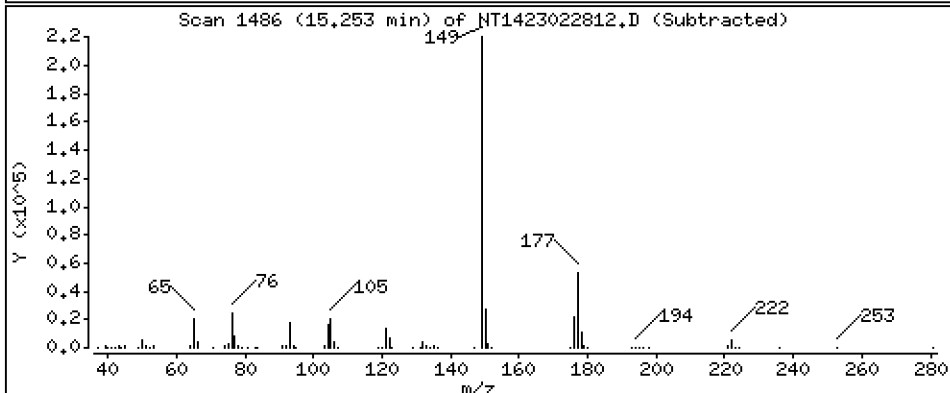
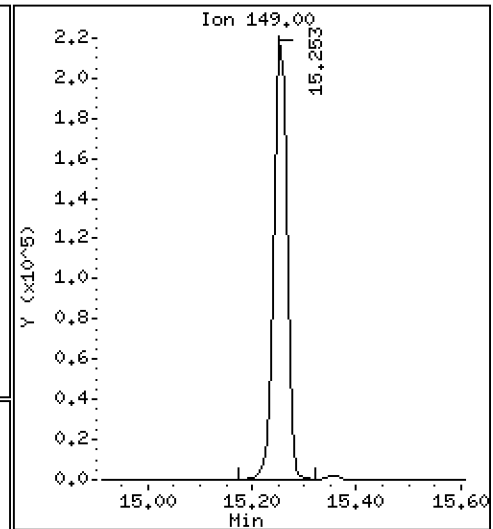
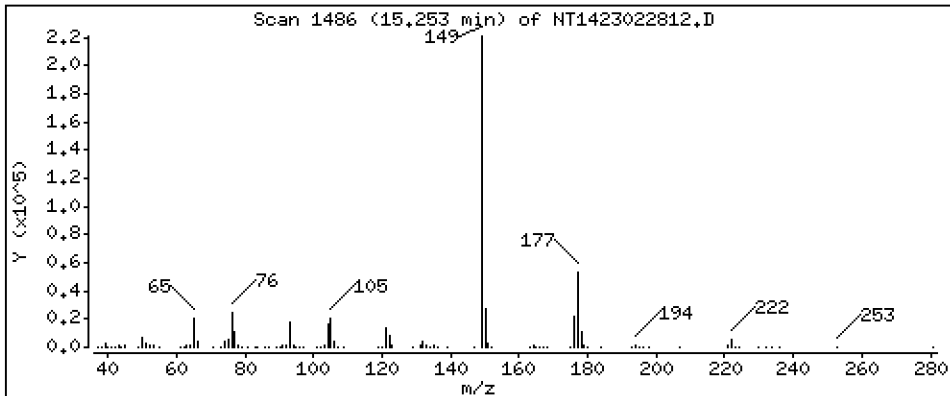
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

50 Diethylphthalate

Concentration: 5.420 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

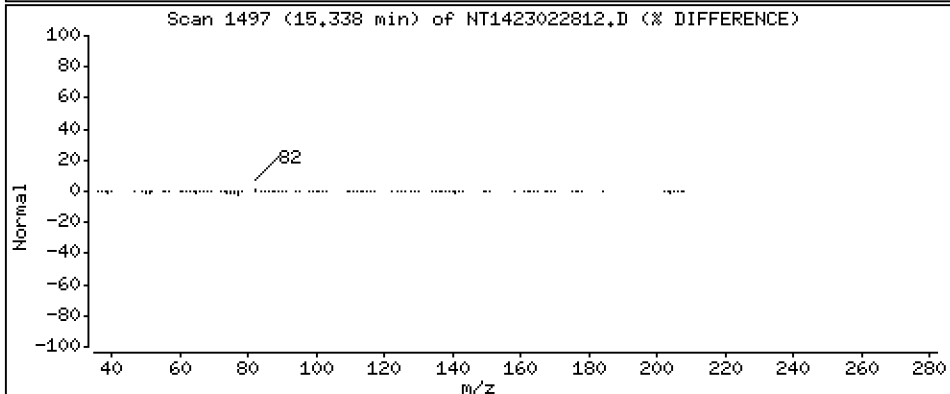
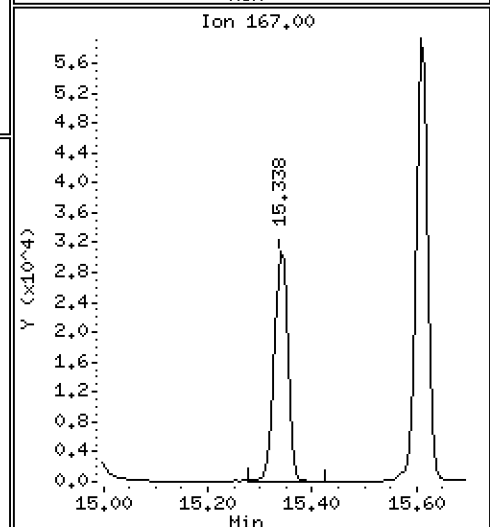
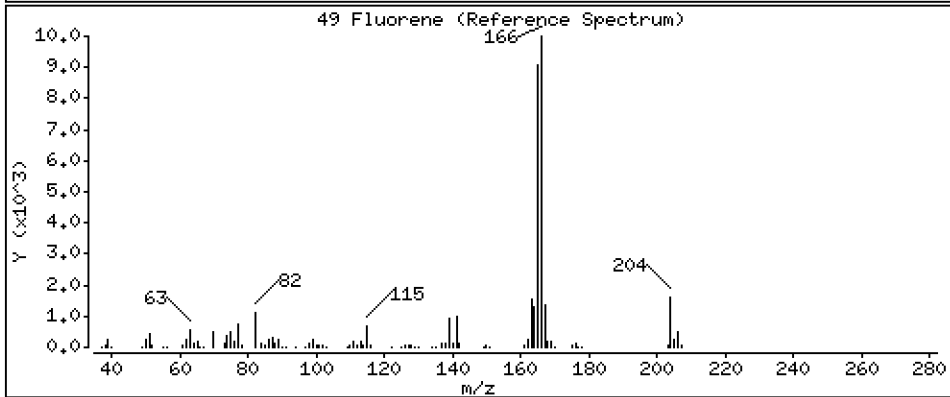
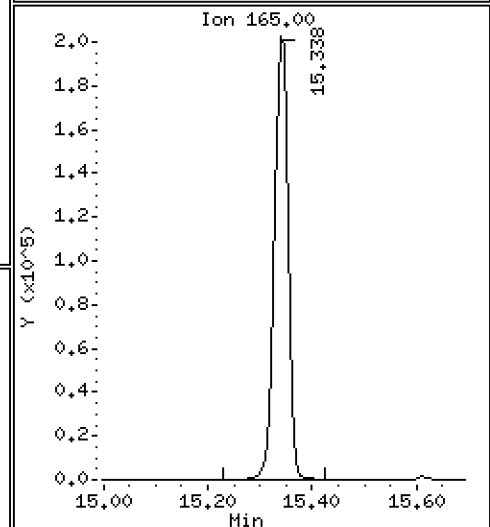
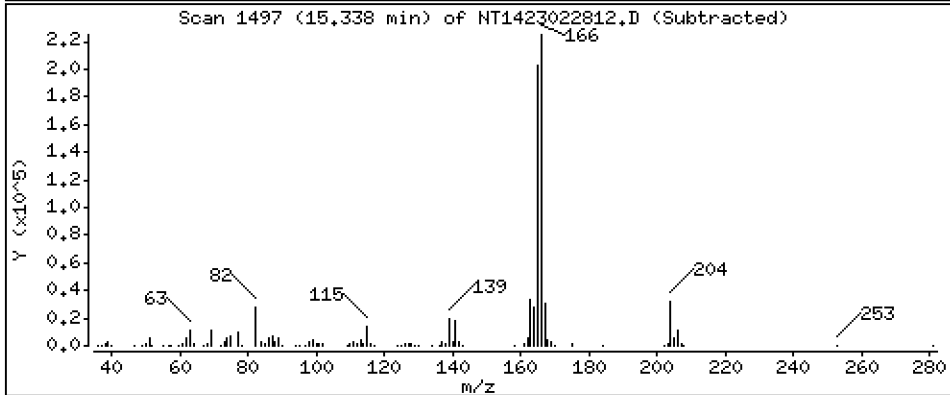
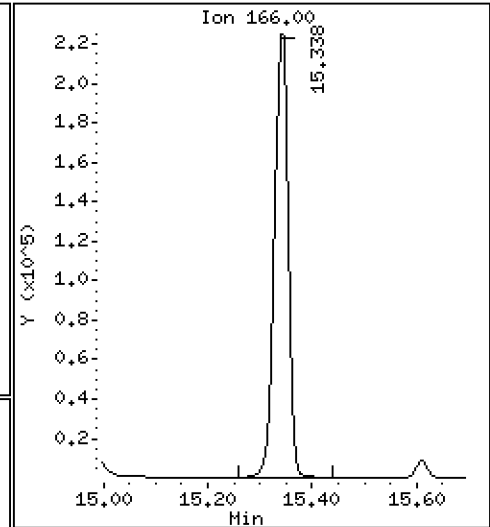
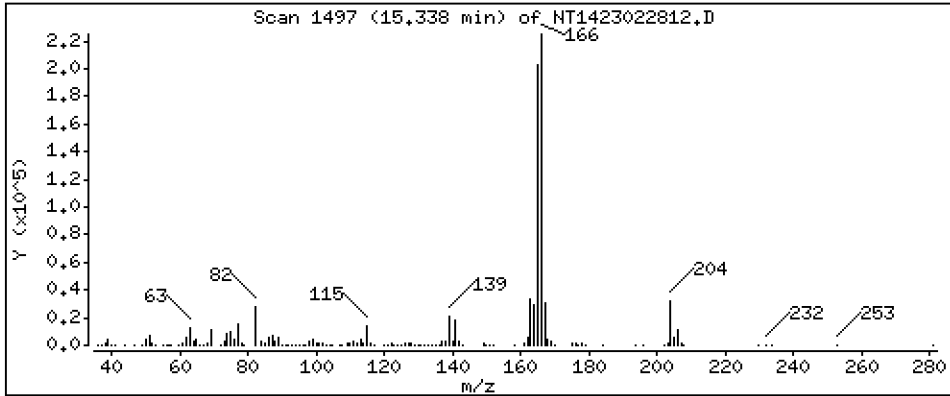
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 4,793 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

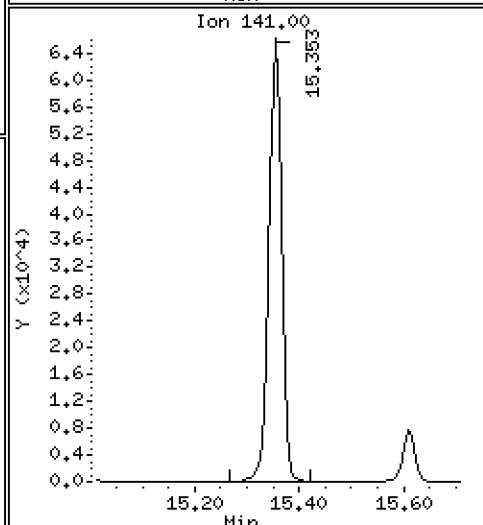
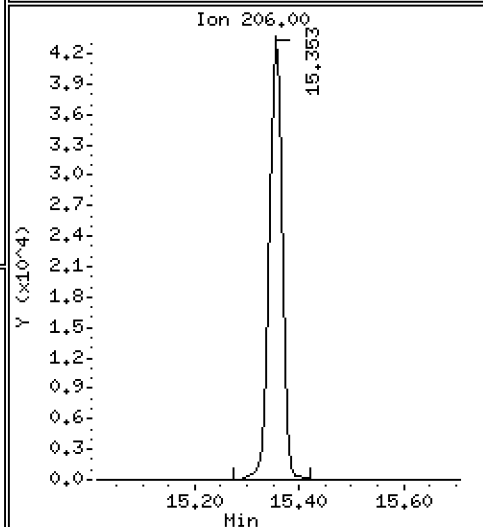
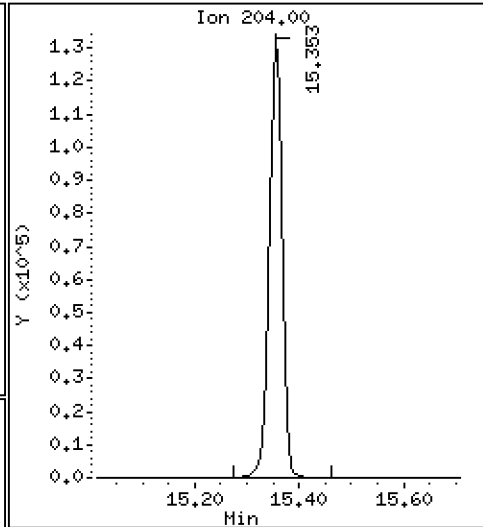
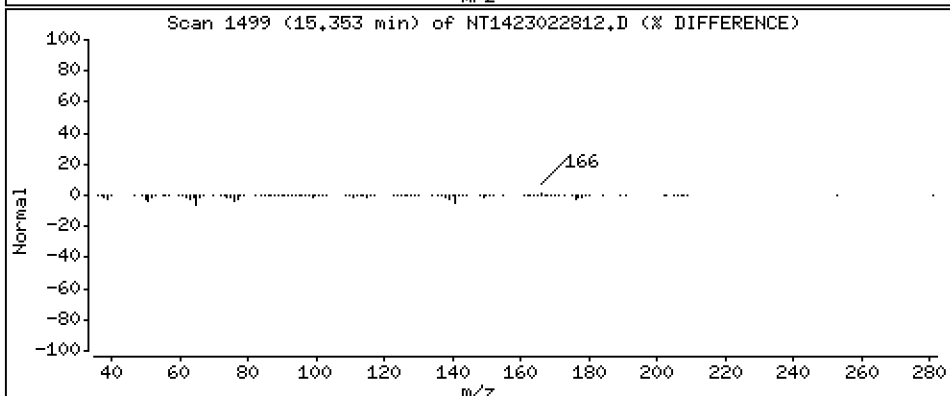
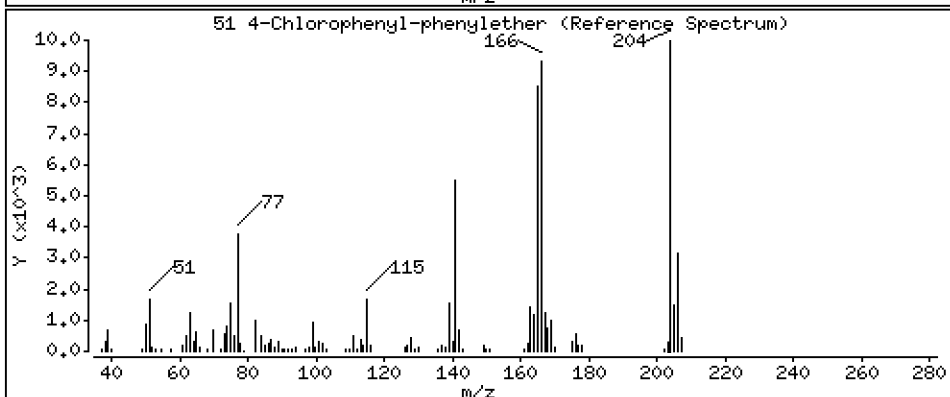
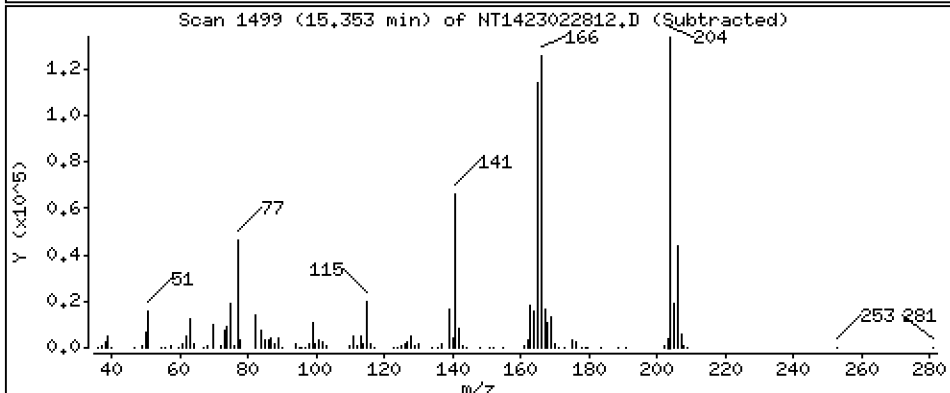
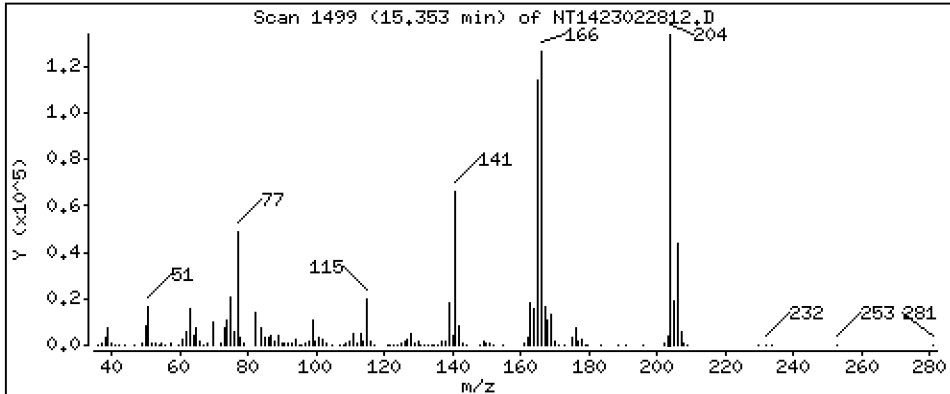
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 4,884 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

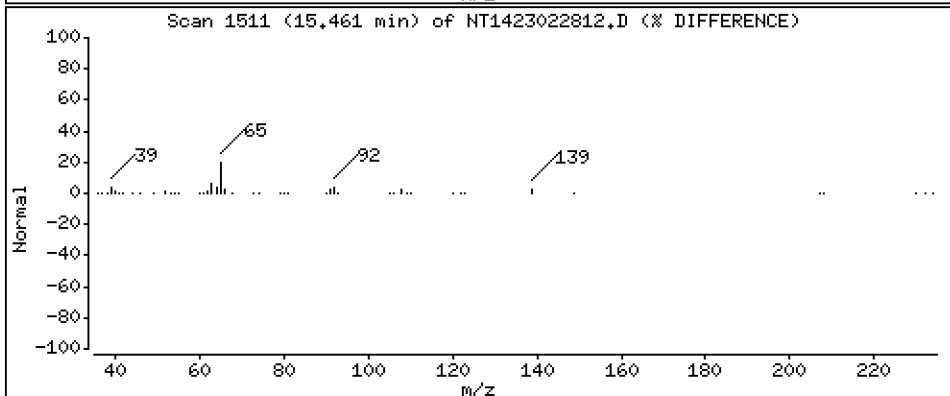
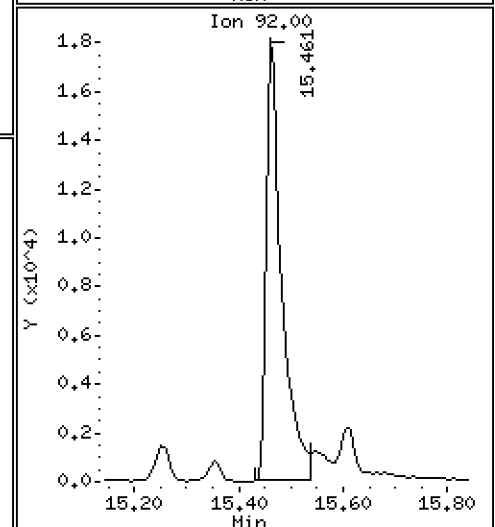
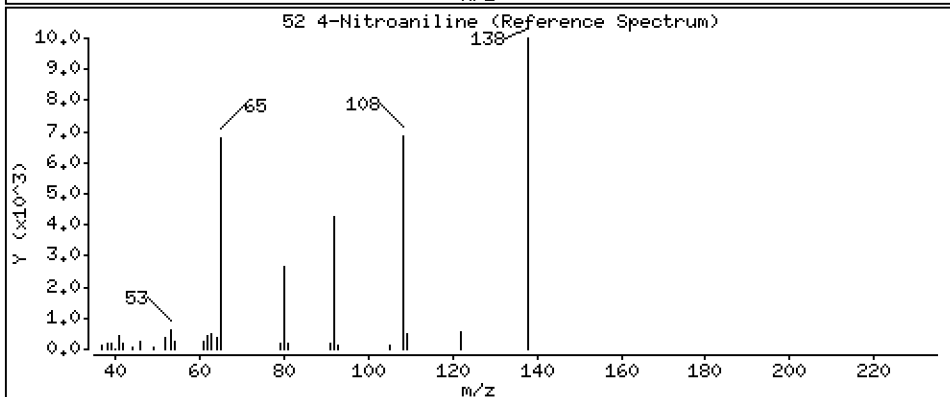
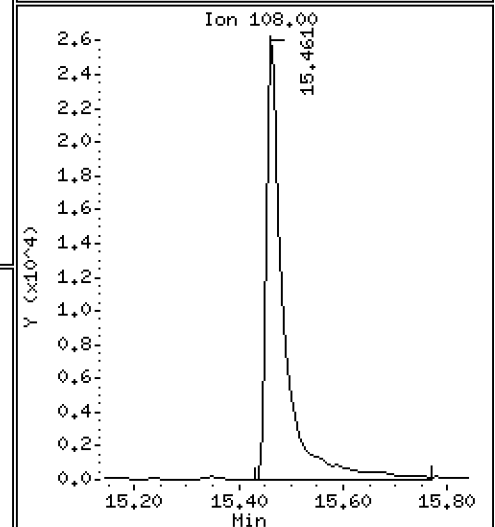
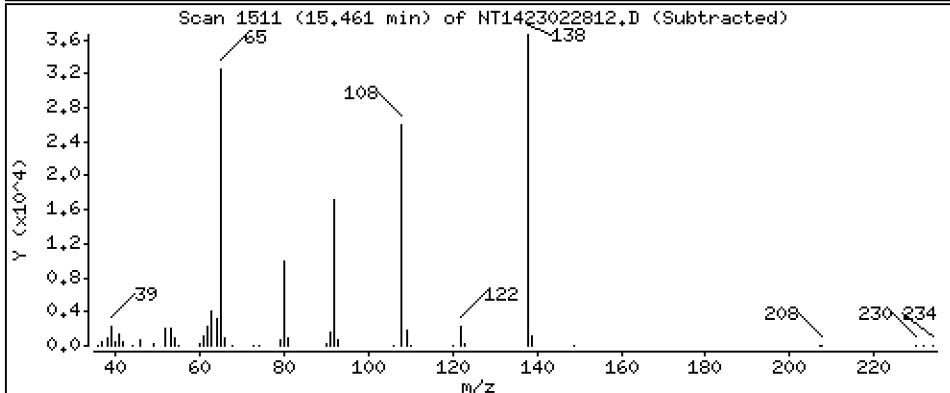
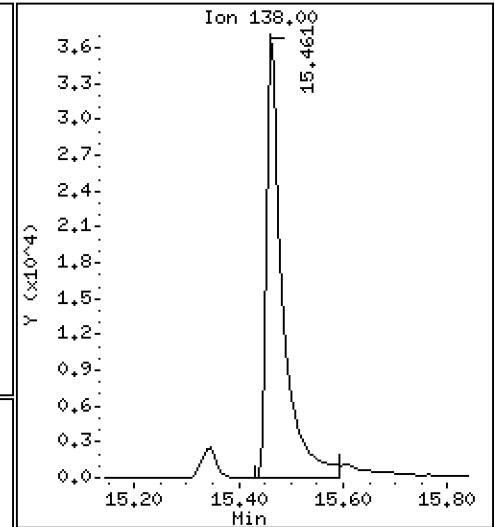
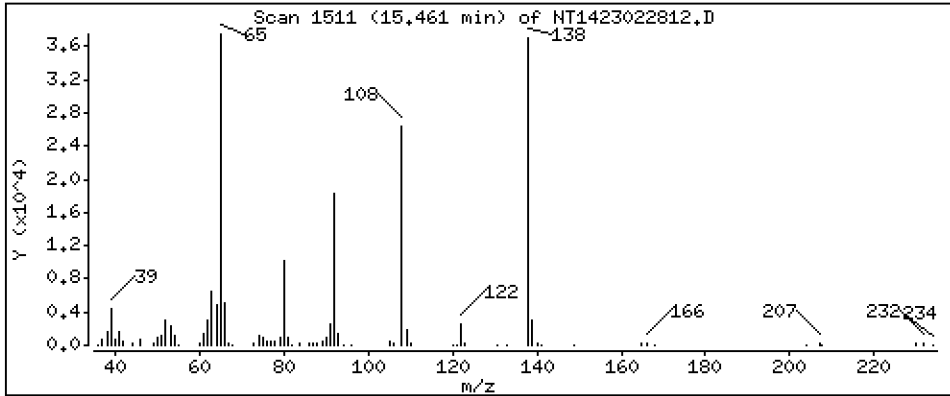
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

52 4-Nitroaniline

Concentration: 4,560 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

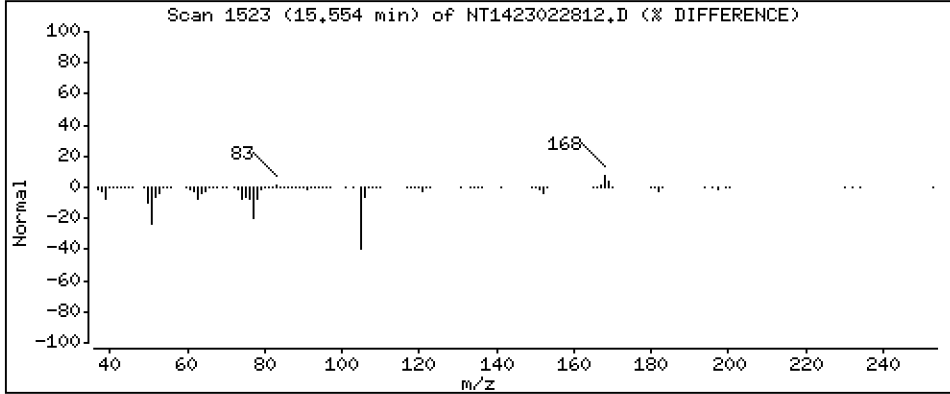
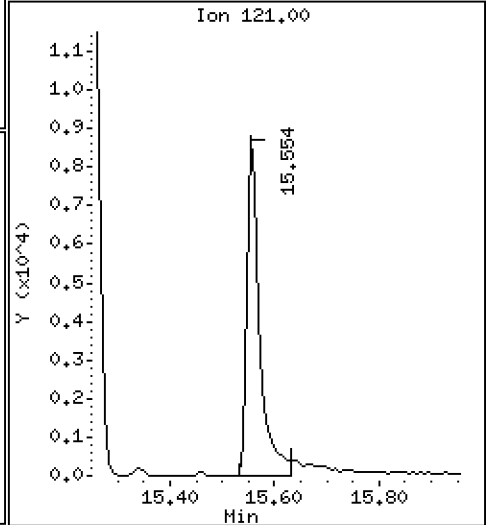
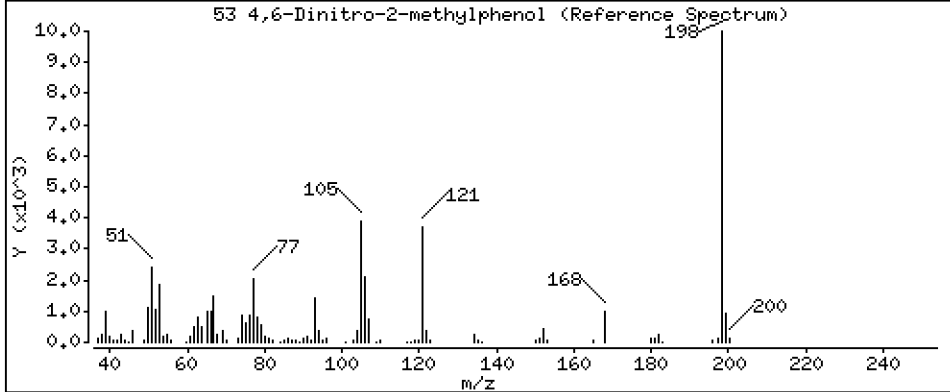
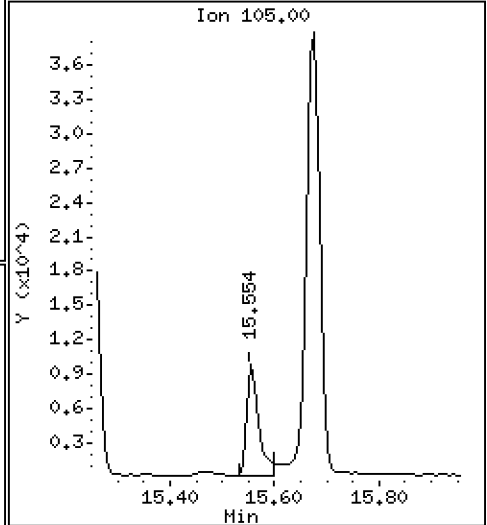
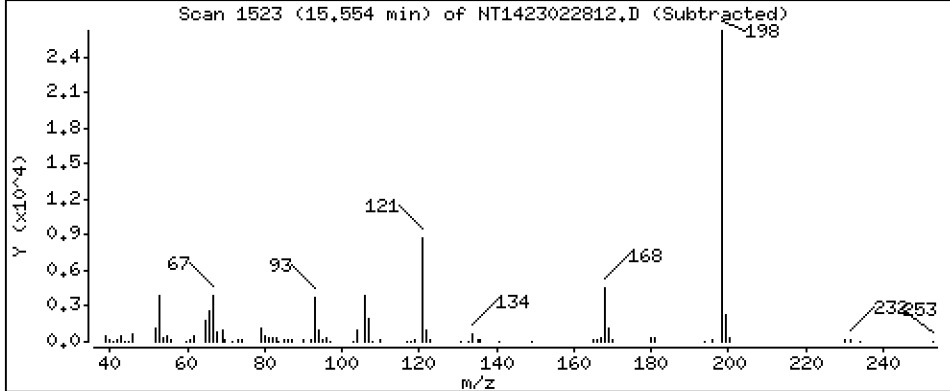
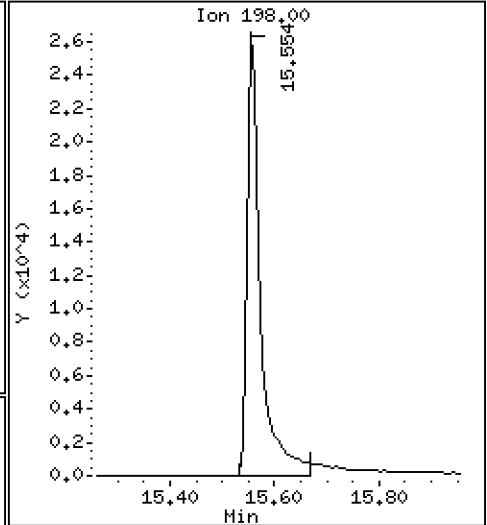
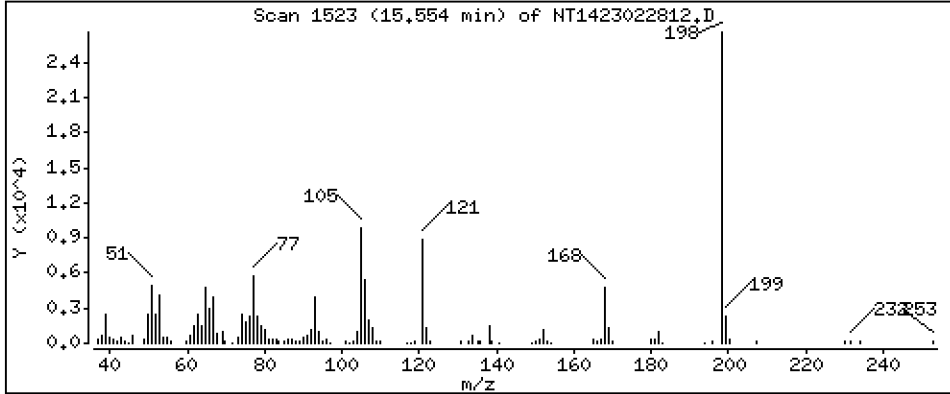
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

53 4,6-Dinitro-2-methylphenol

Concentration: 3,234 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

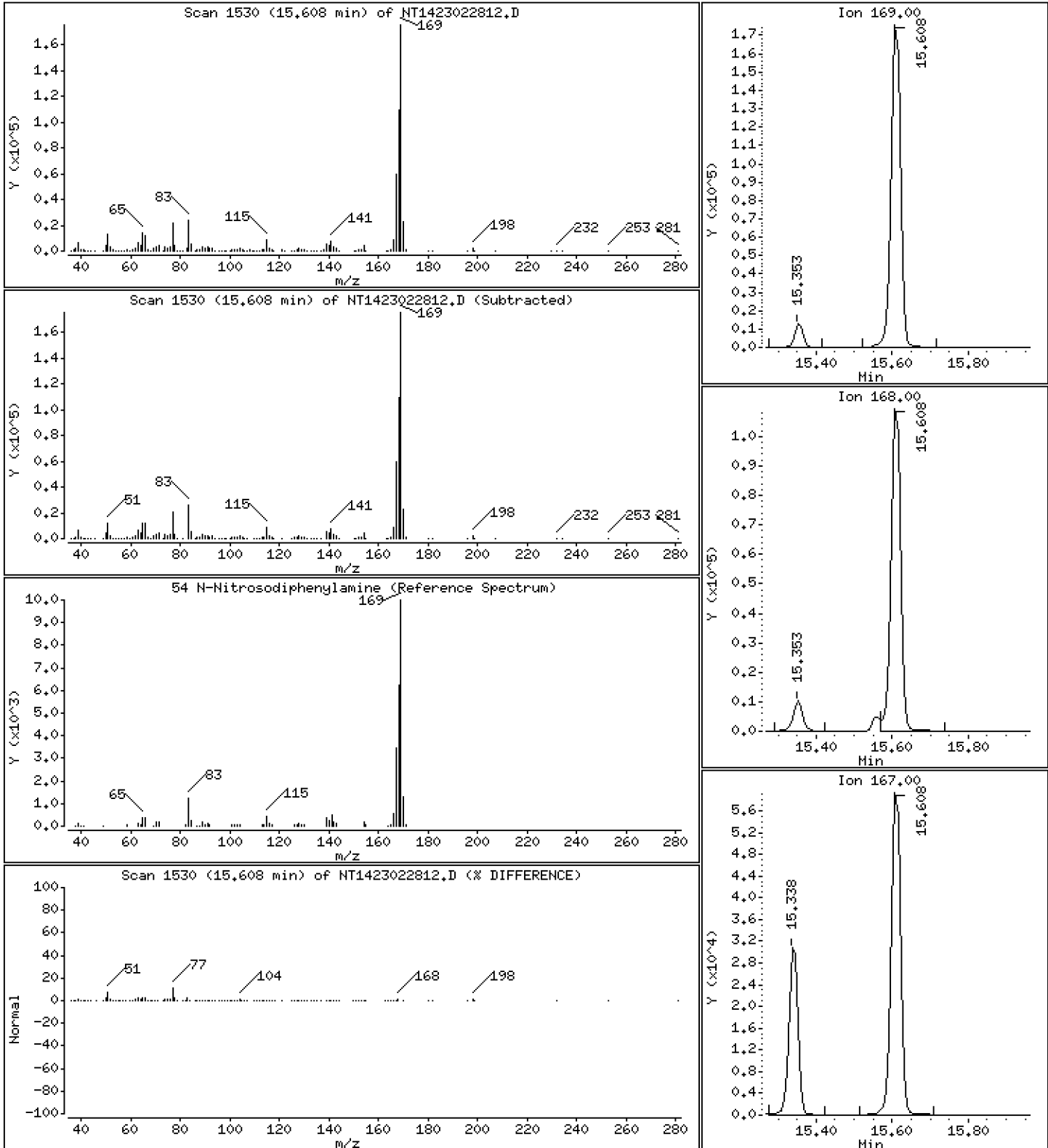
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

54 N-Nitrosodiphenylamine

Concentration: 4,980 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

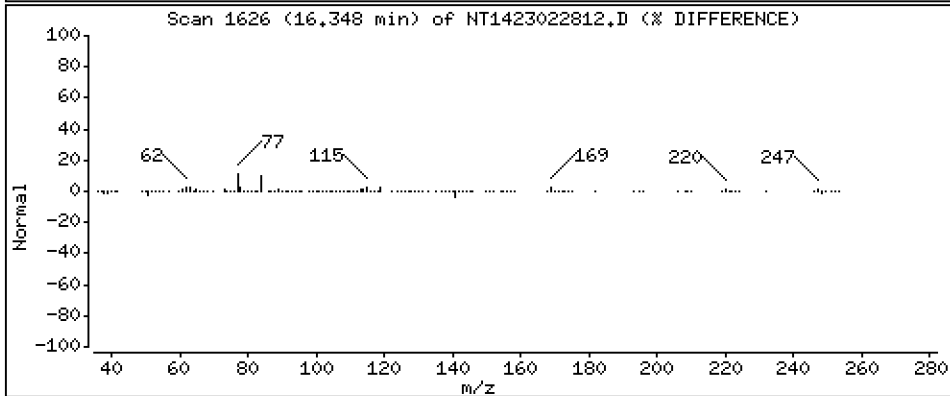
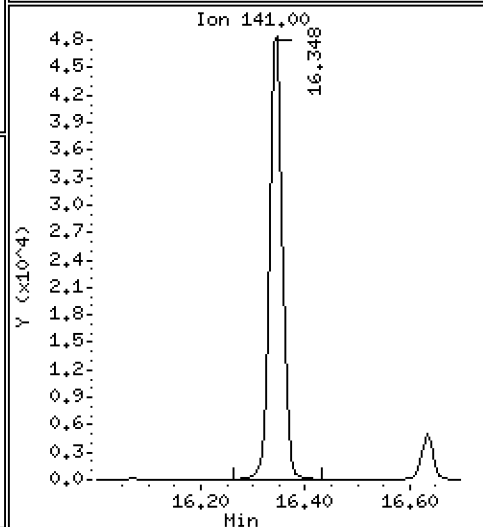
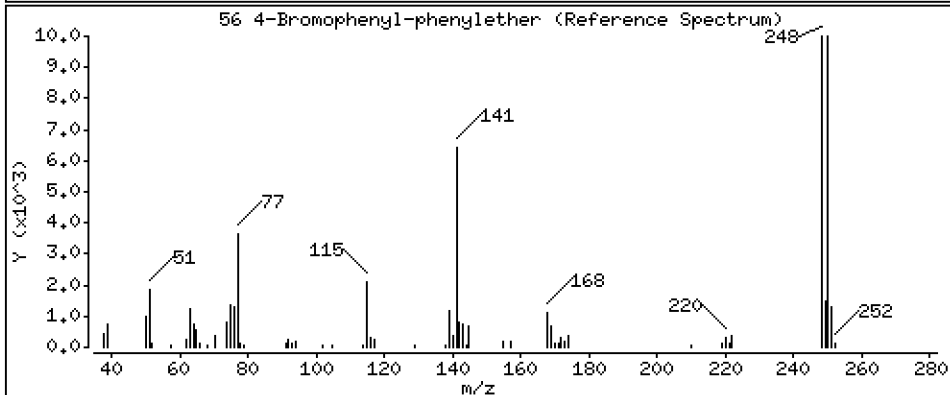
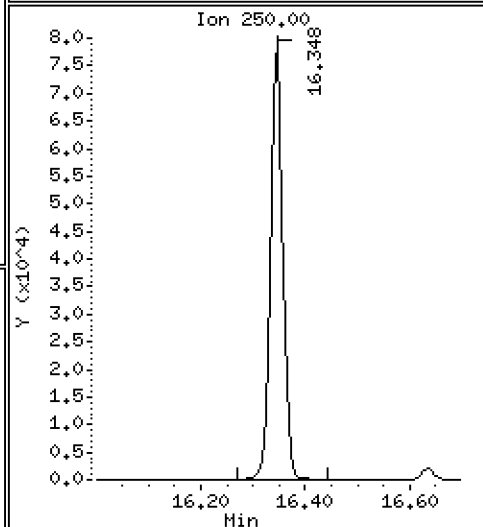
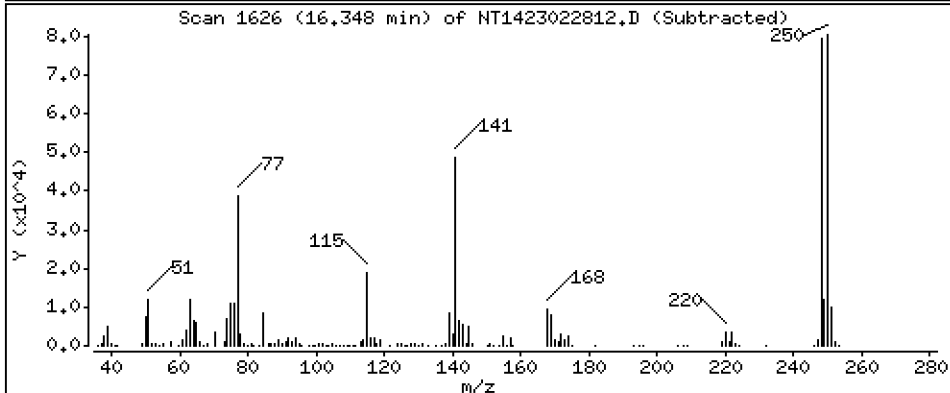
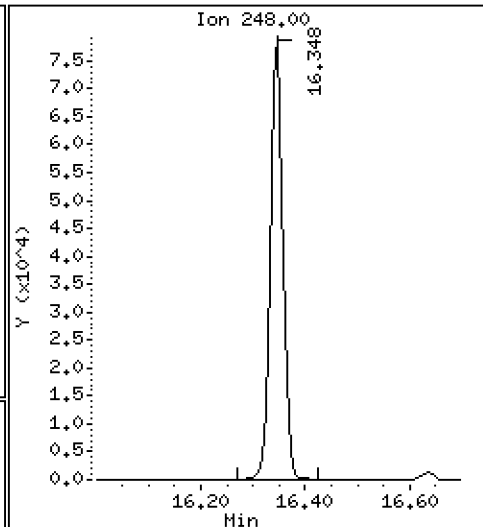
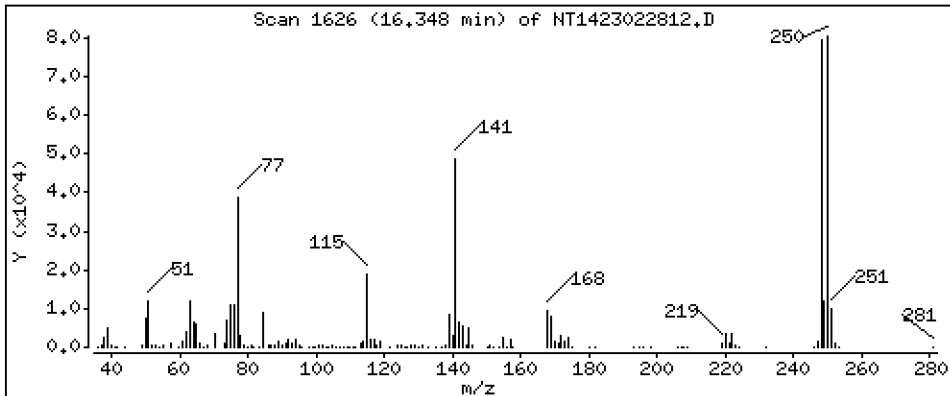
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 5,152 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

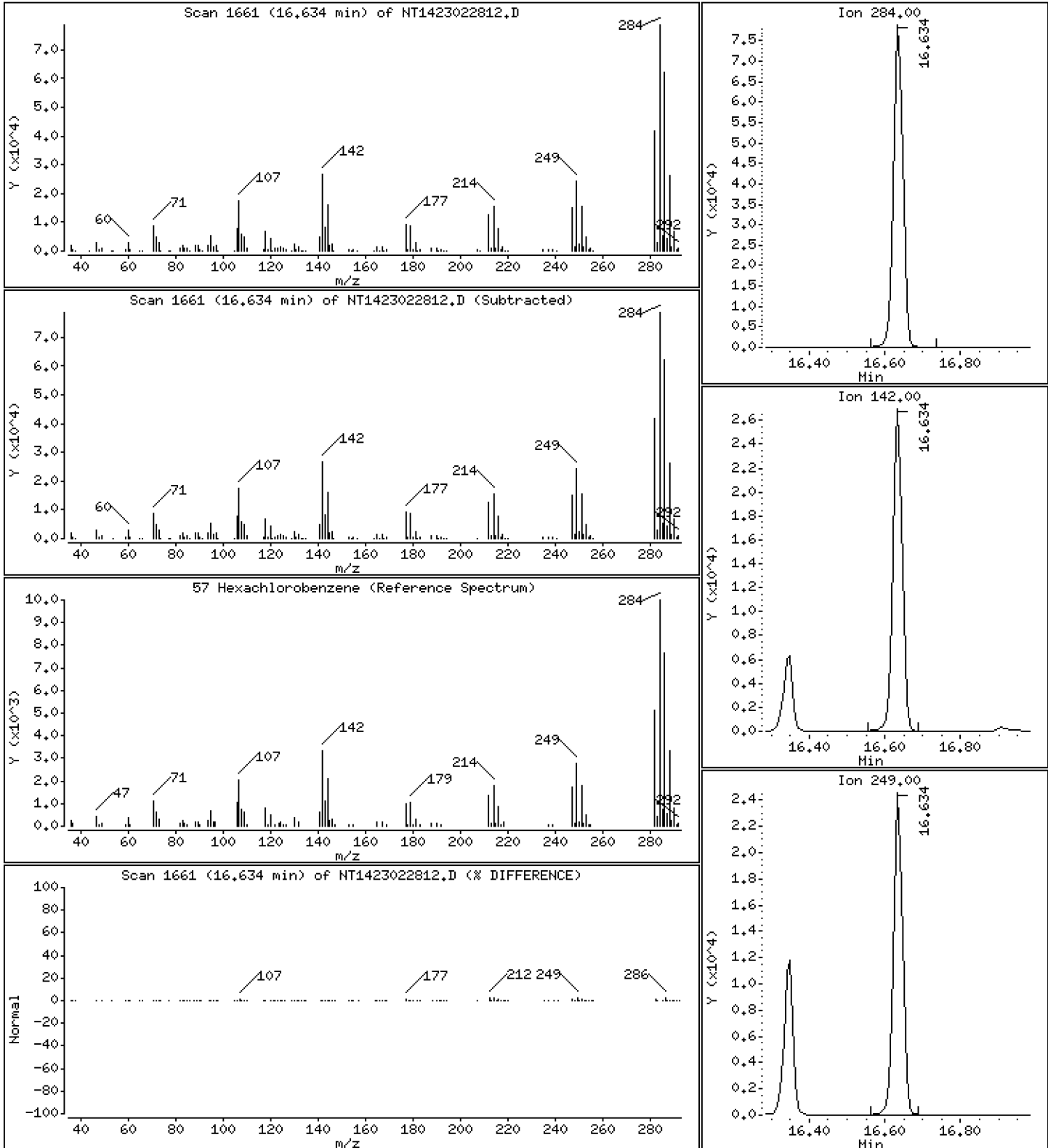
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

57 Hexachlorobenzene

Concentration: 4.790 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

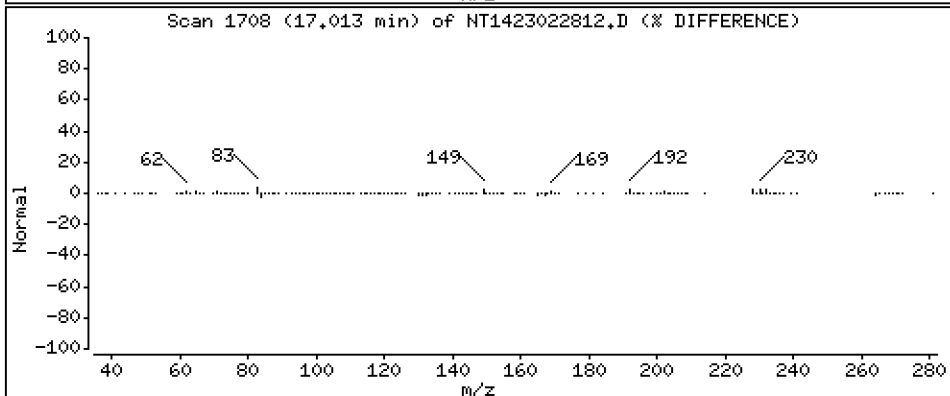
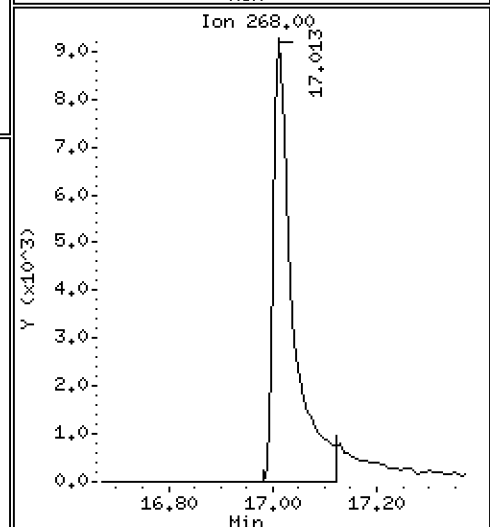
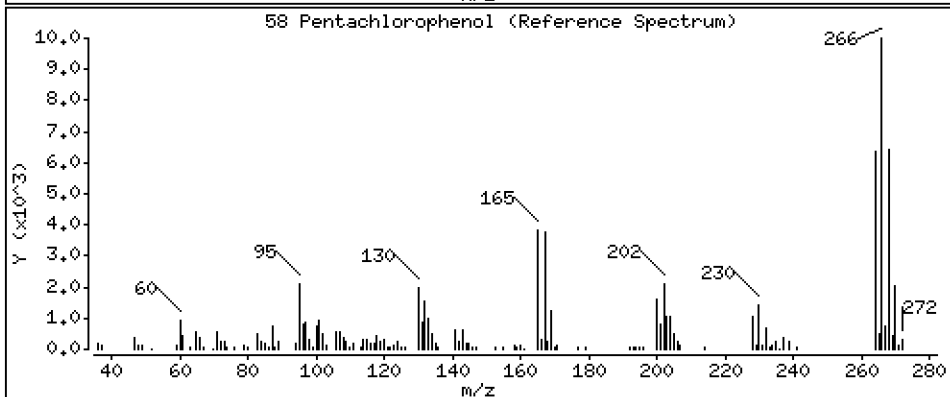
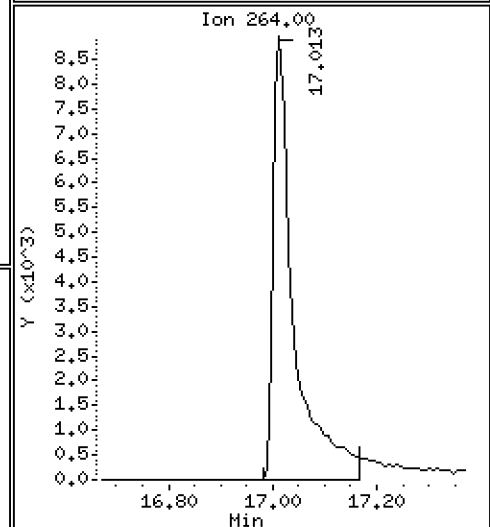
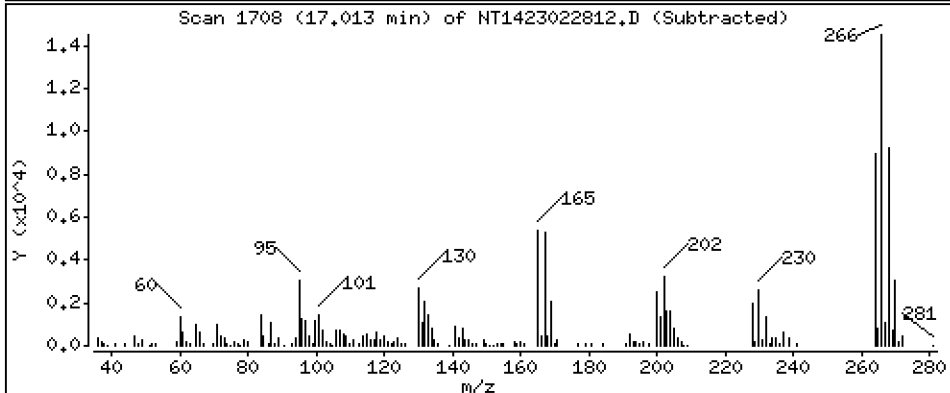
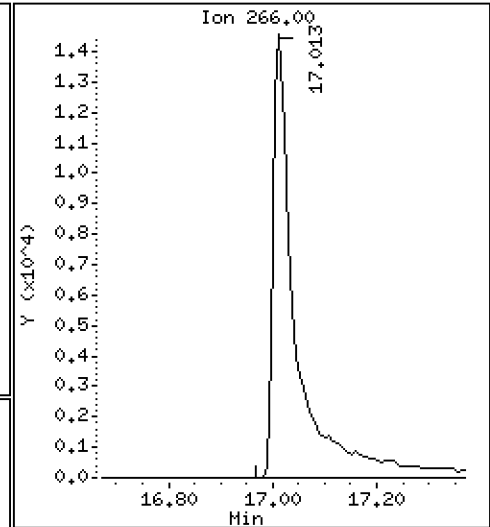
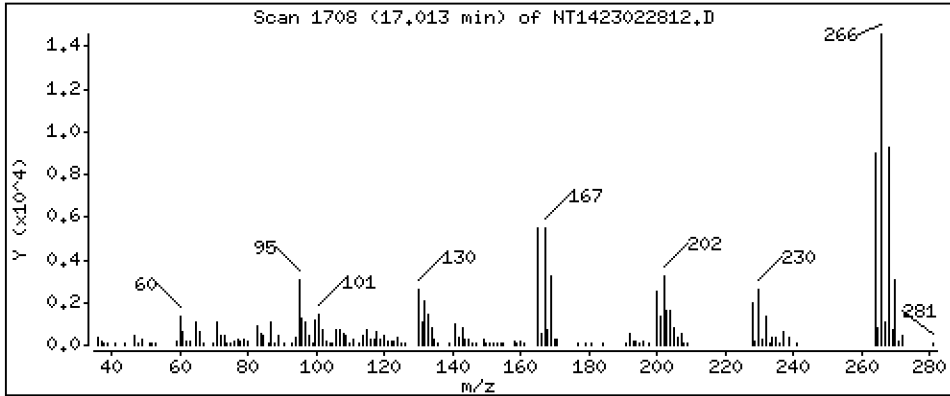
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 3,524 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

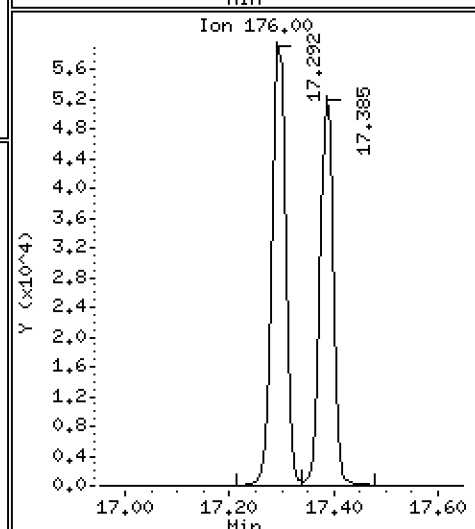
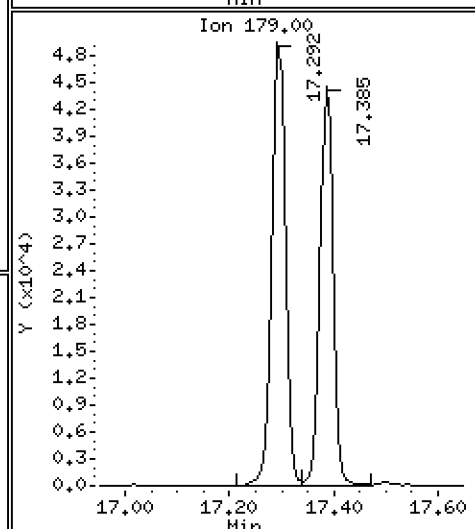
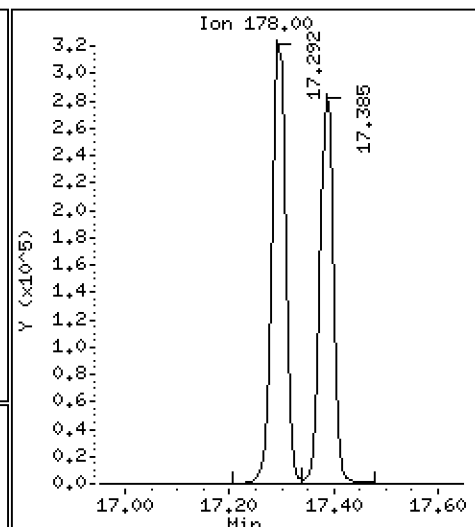
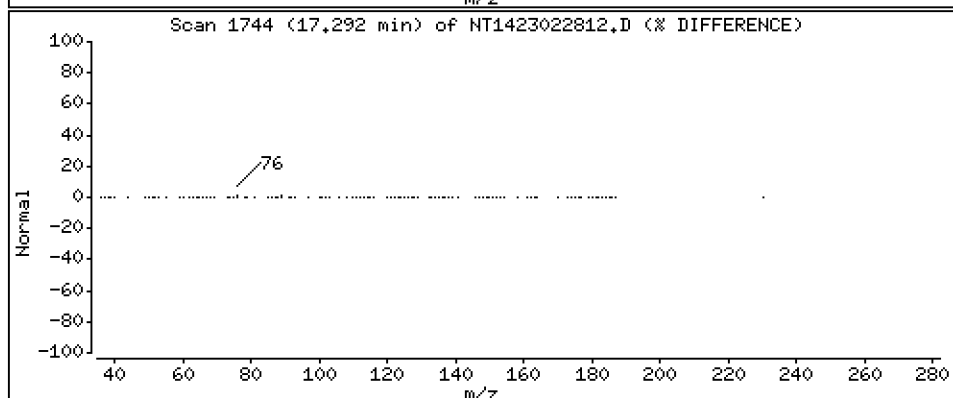
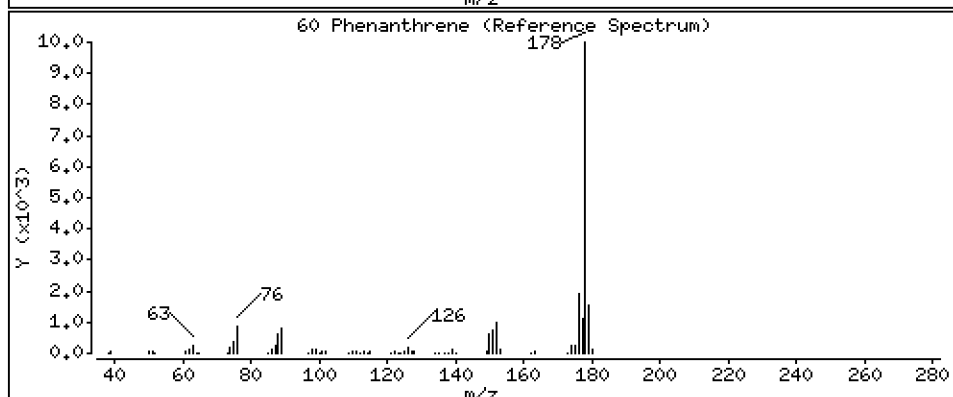
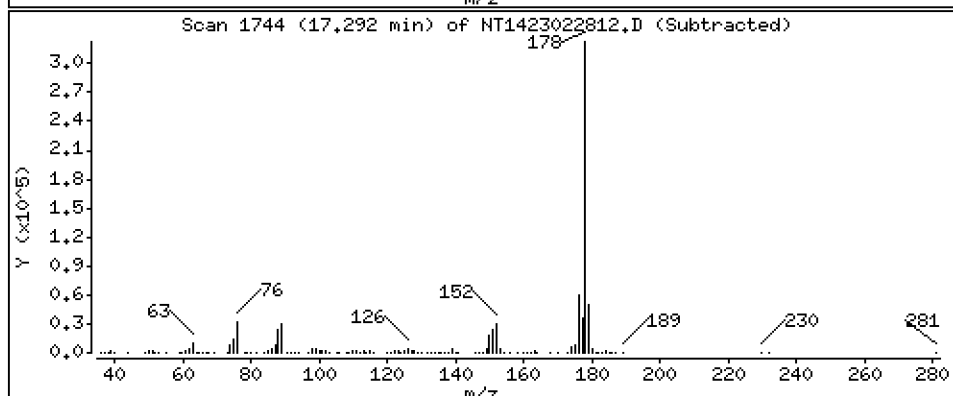
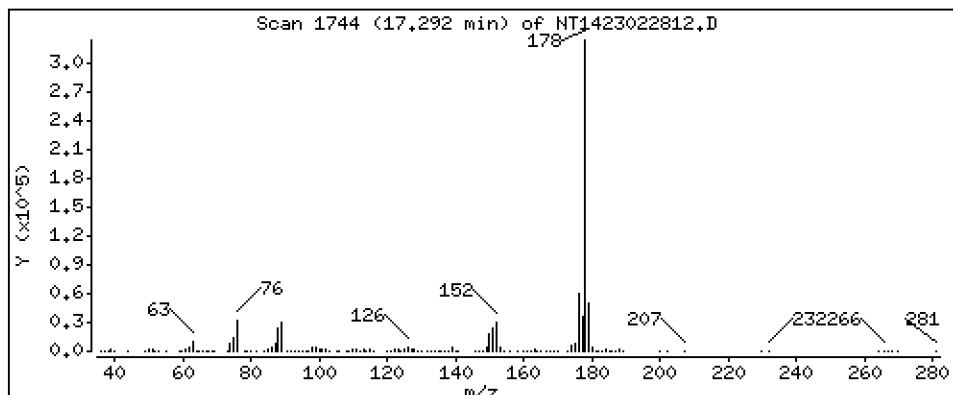
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 4,615 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

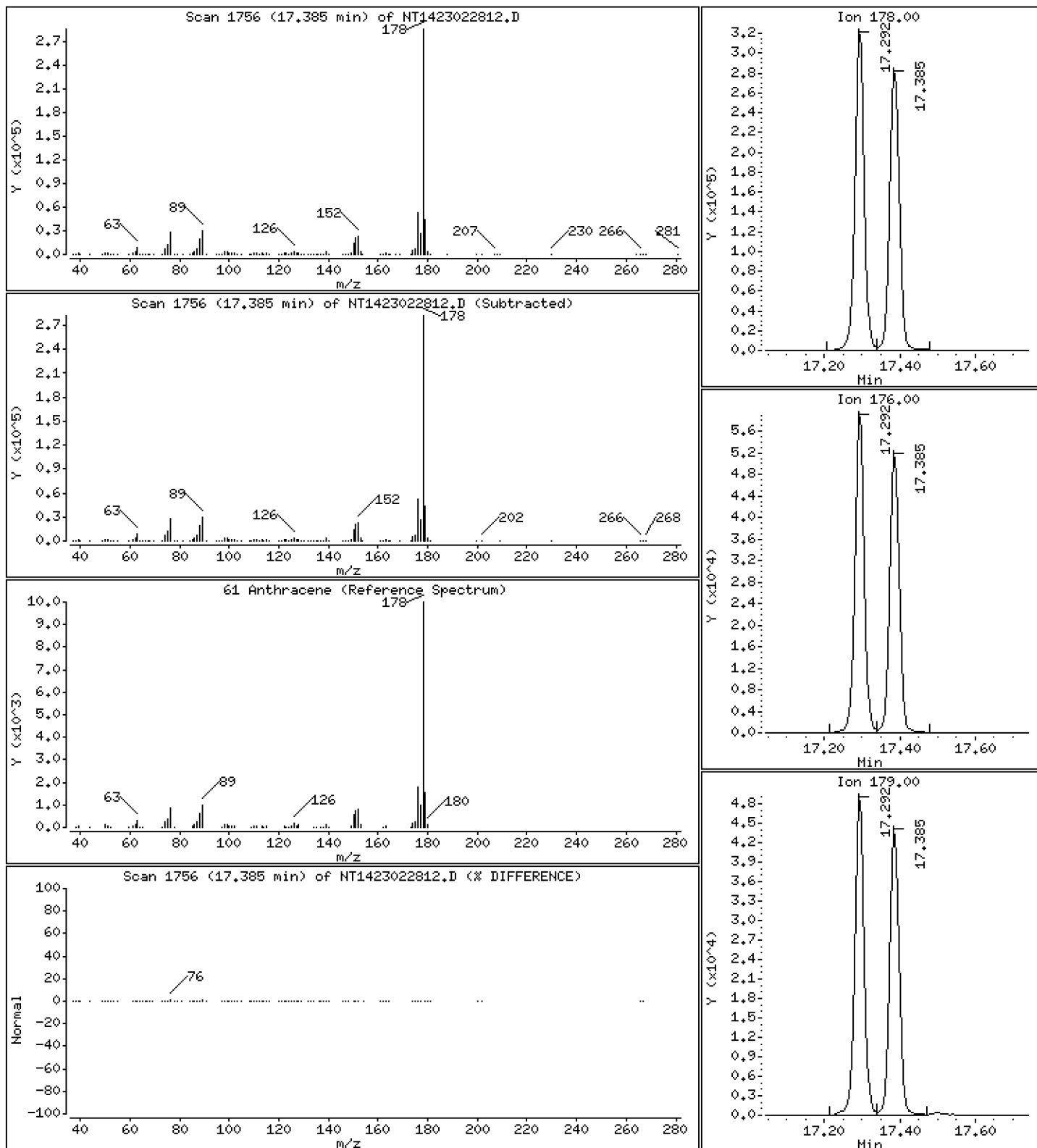
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 4,224 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

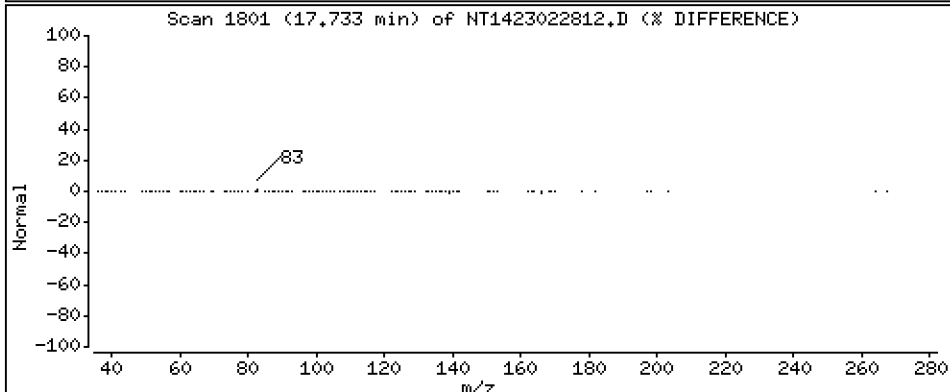
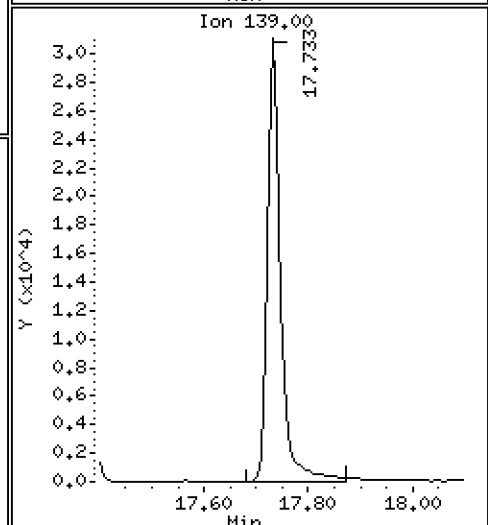
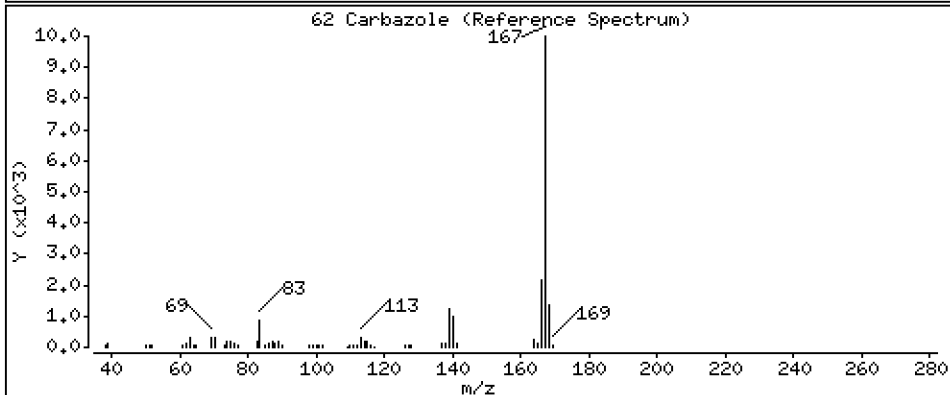
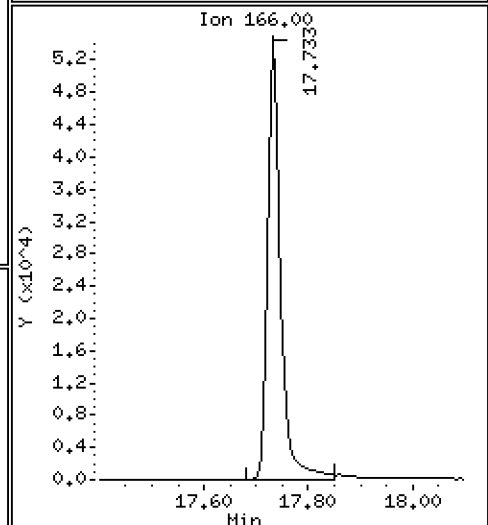
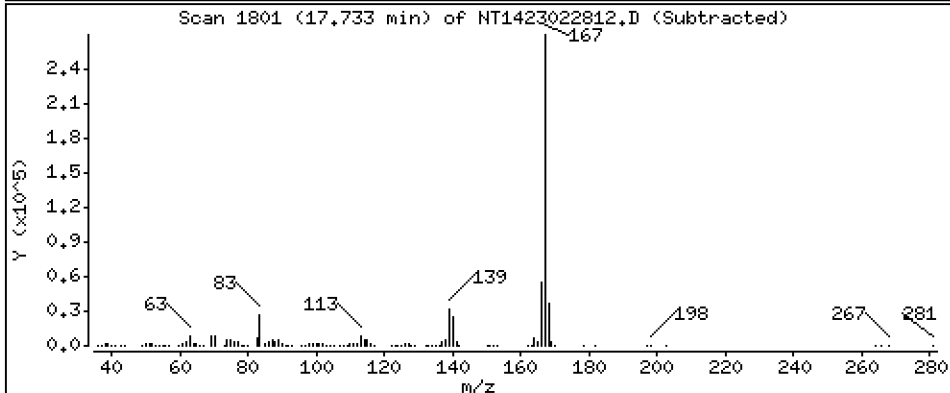
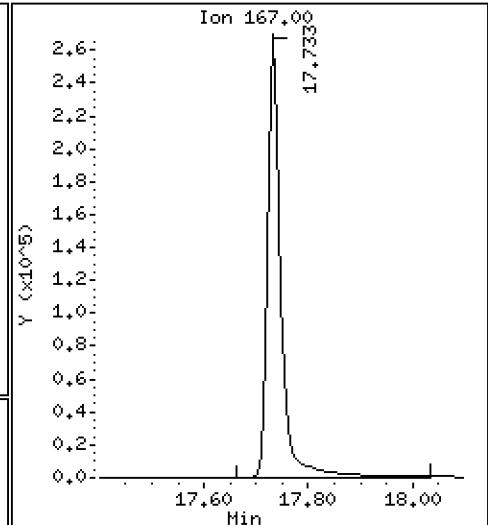
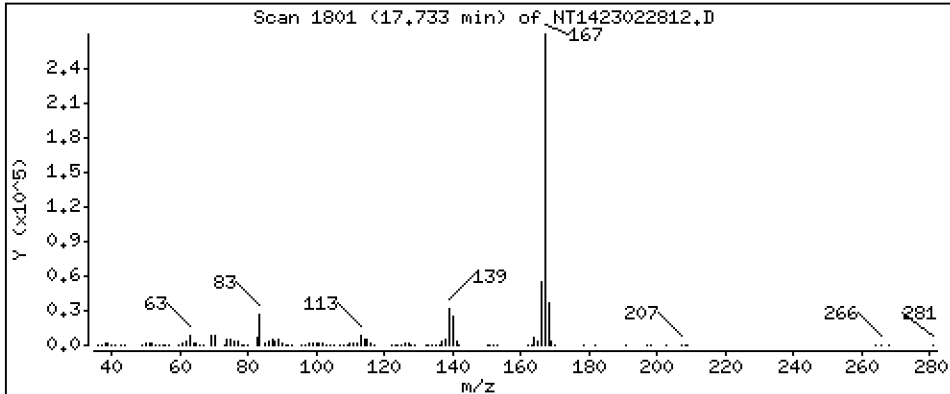
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 4,776 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

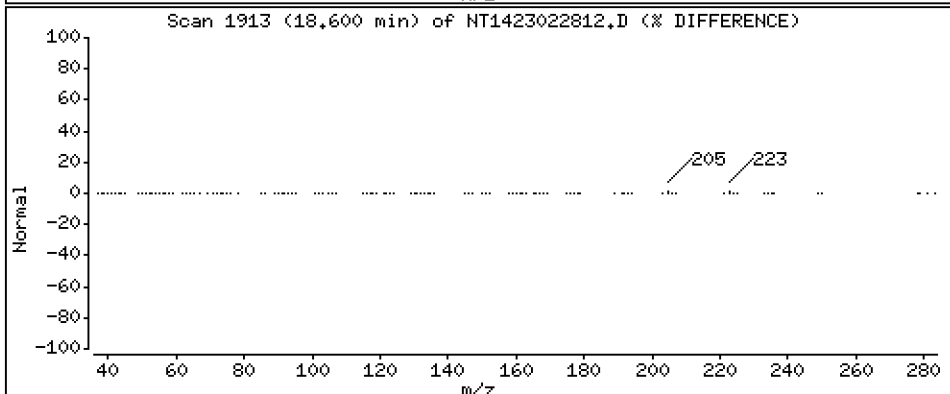
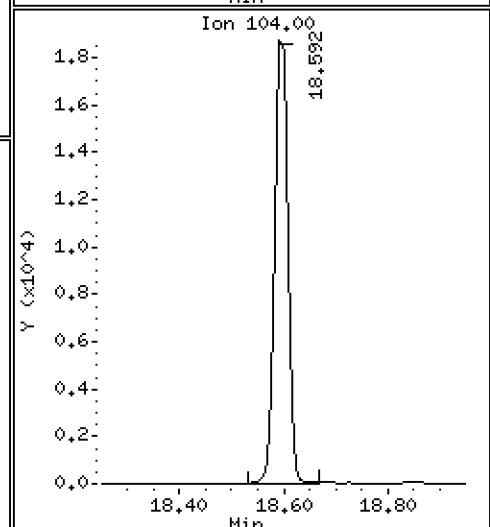
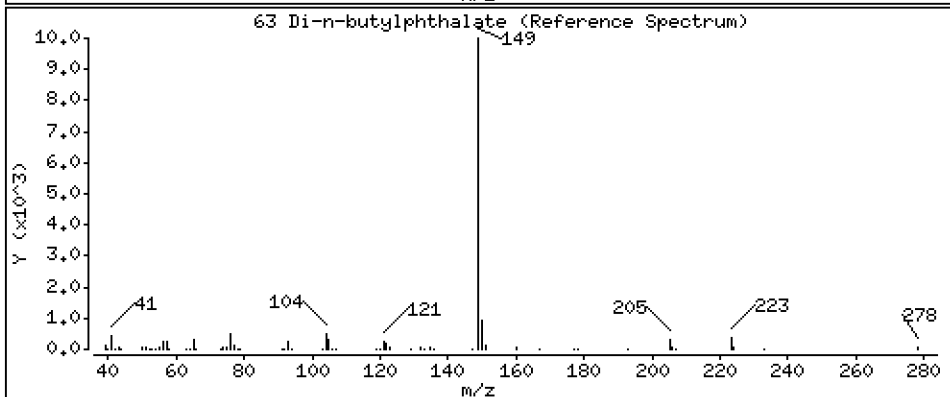
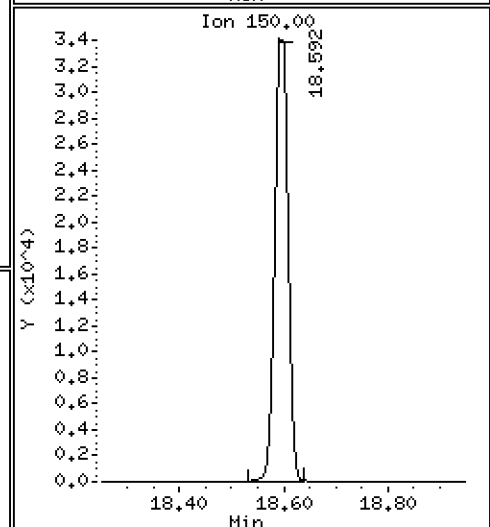
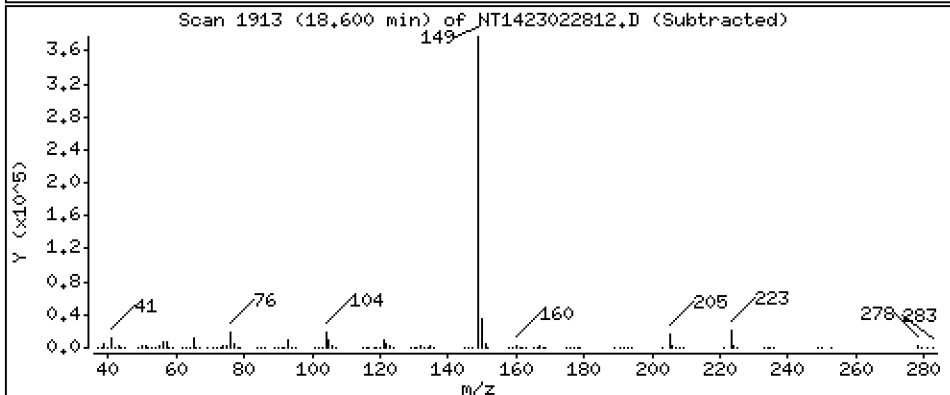
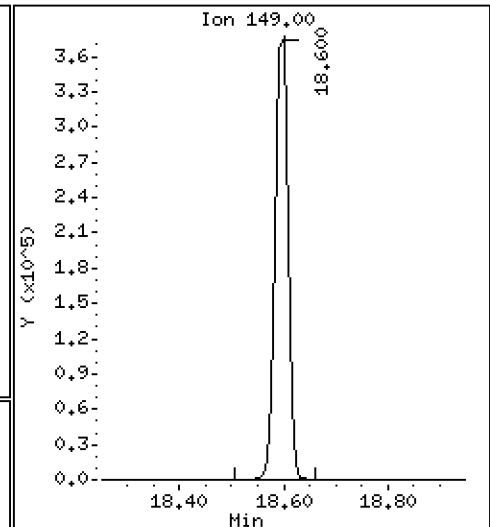
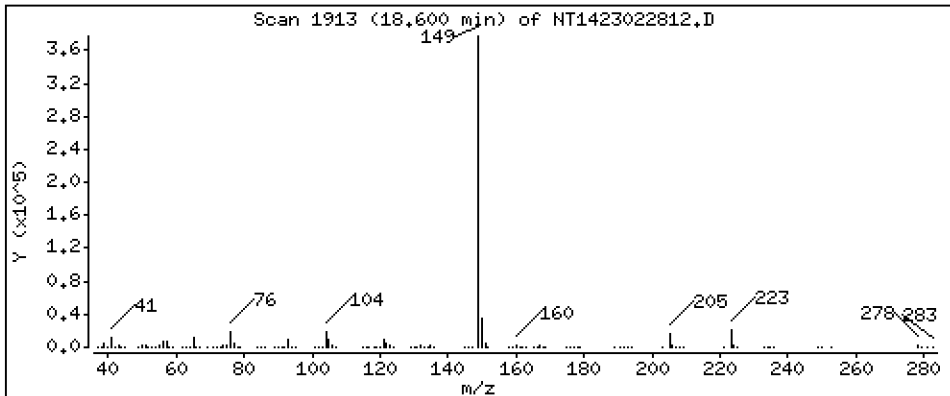
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 4,819 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

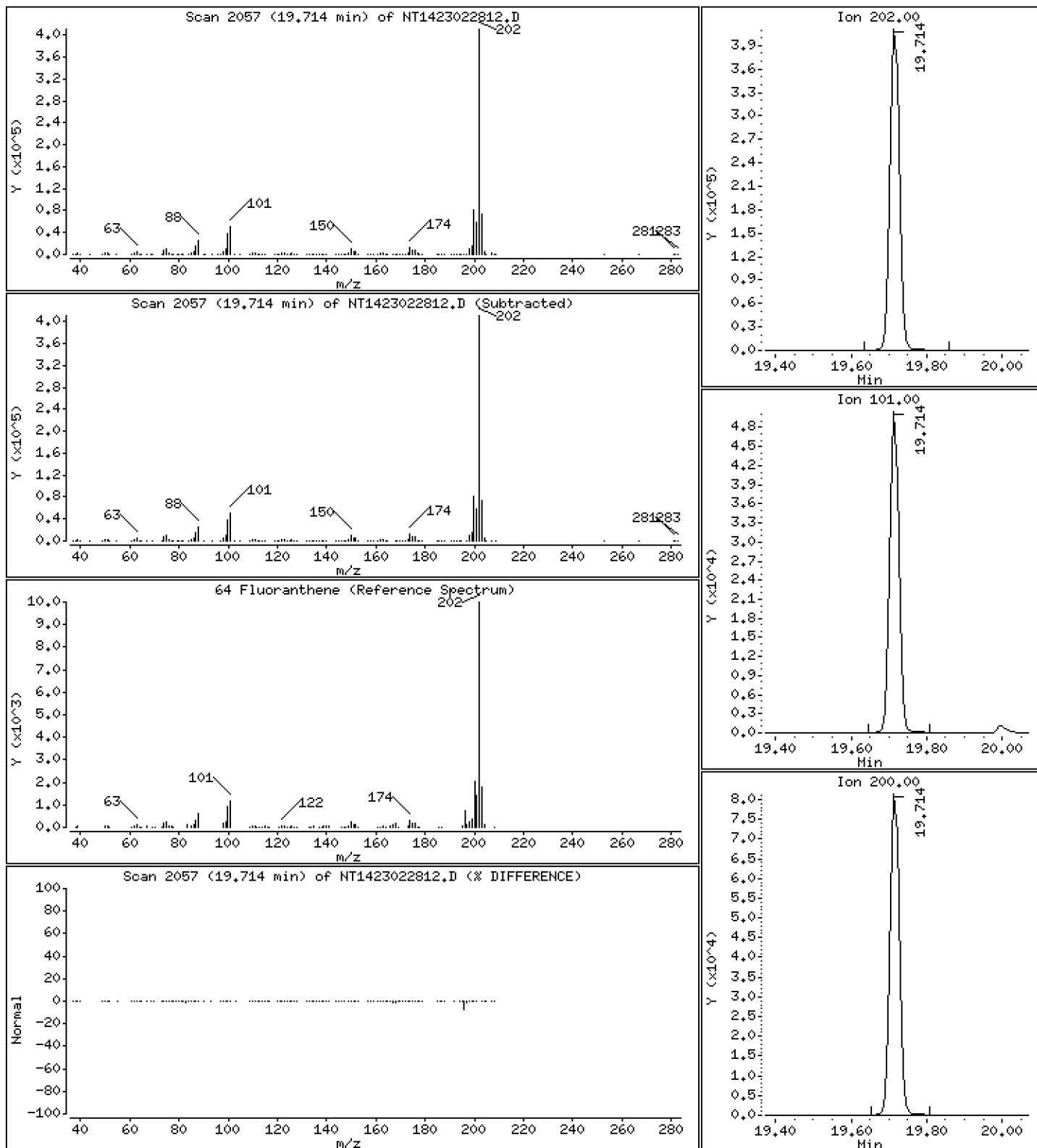
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 5,104 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

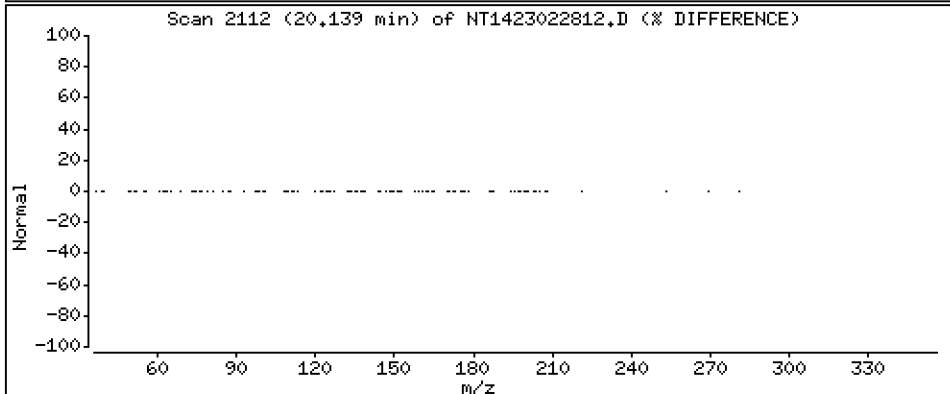
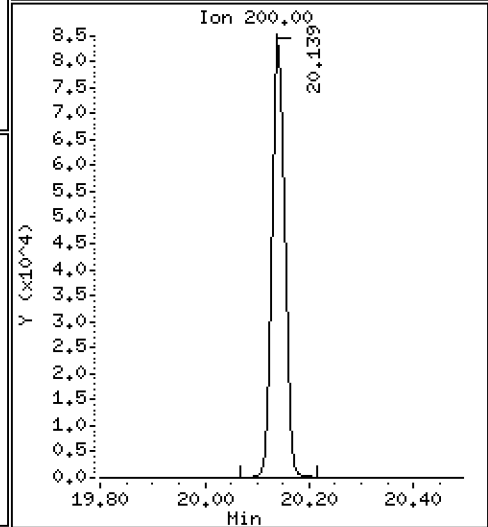
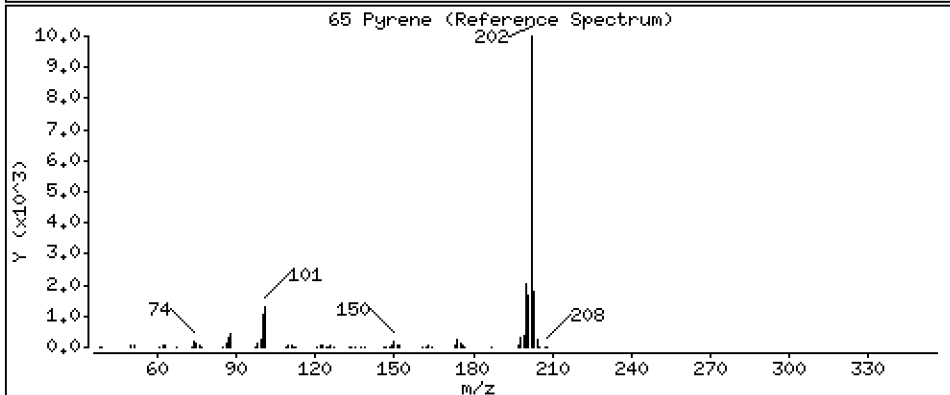
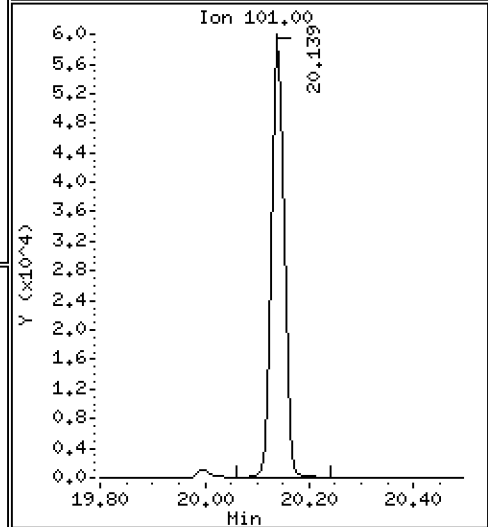
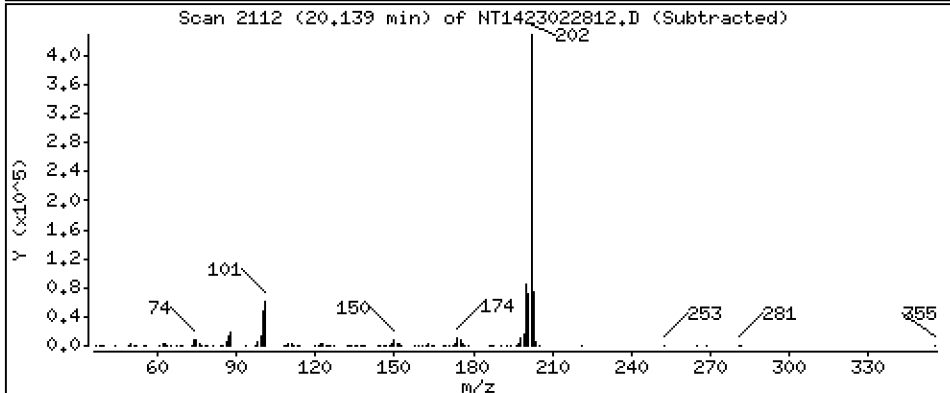
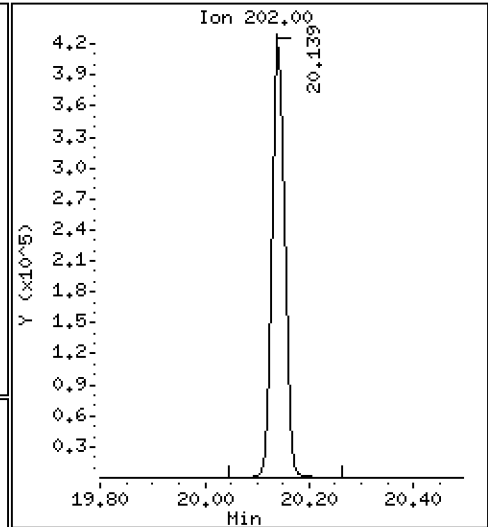
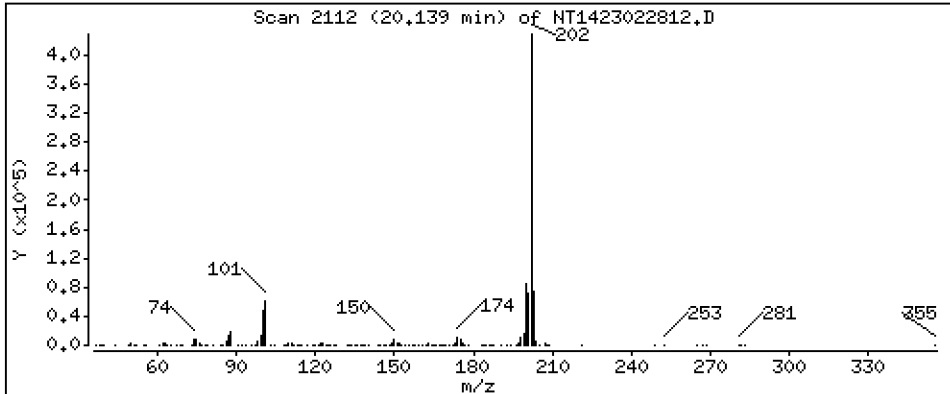
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 4,957 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

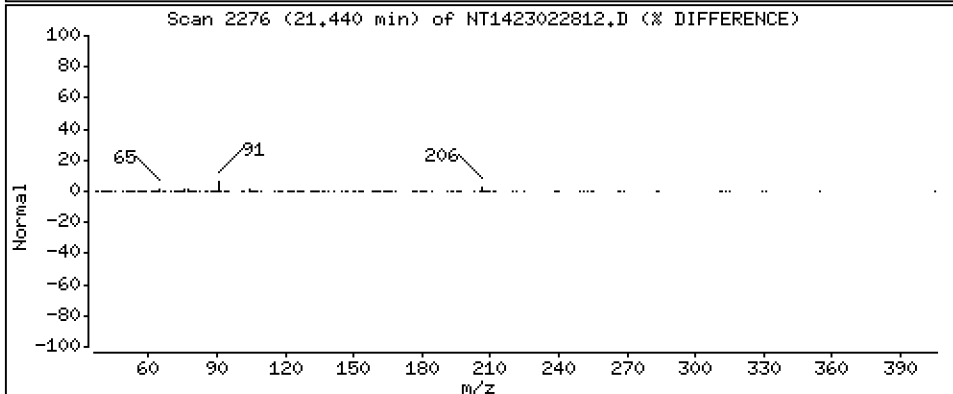
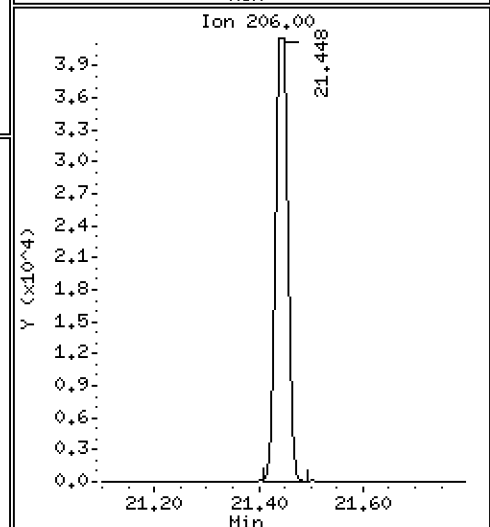
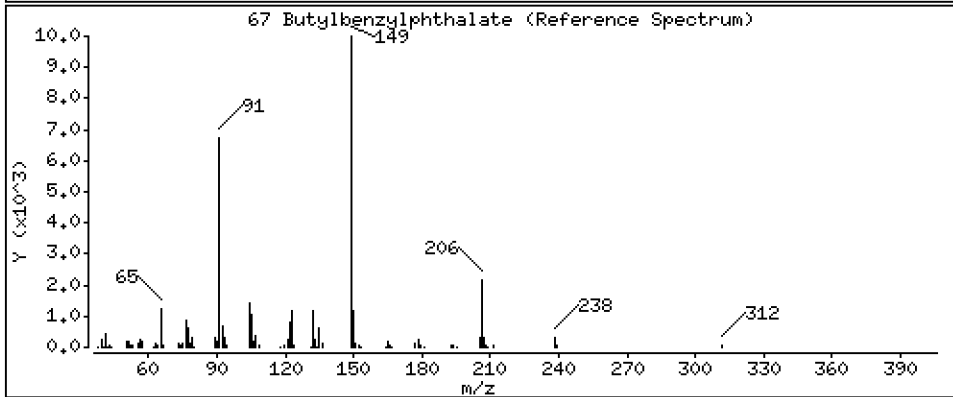
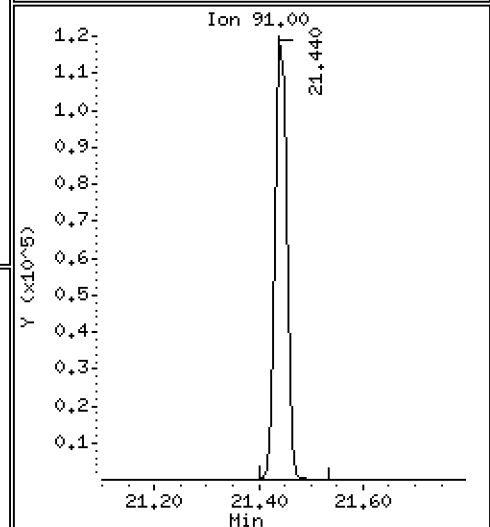
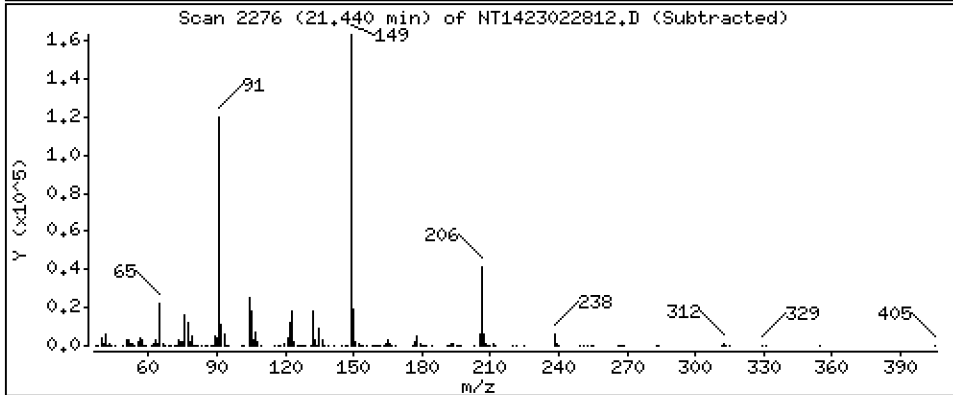
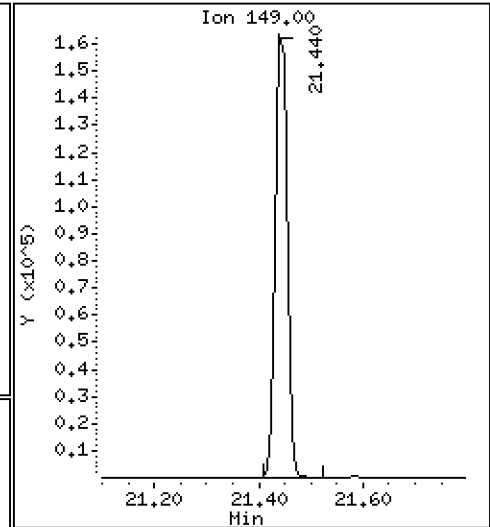
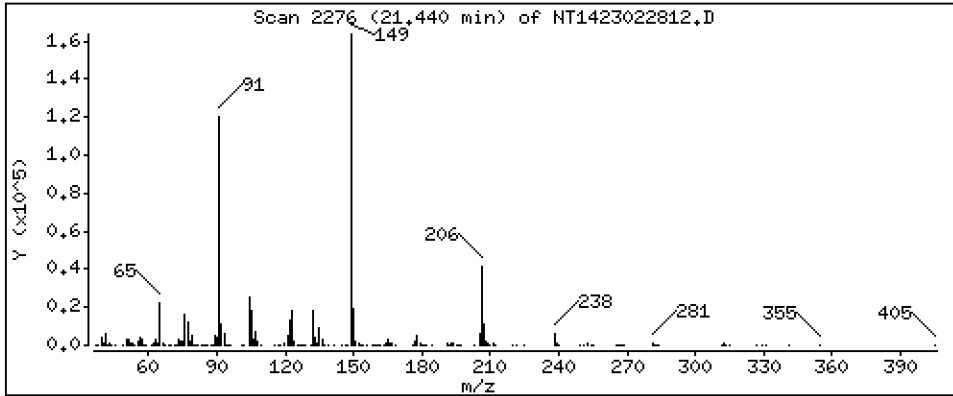
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 4,965 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

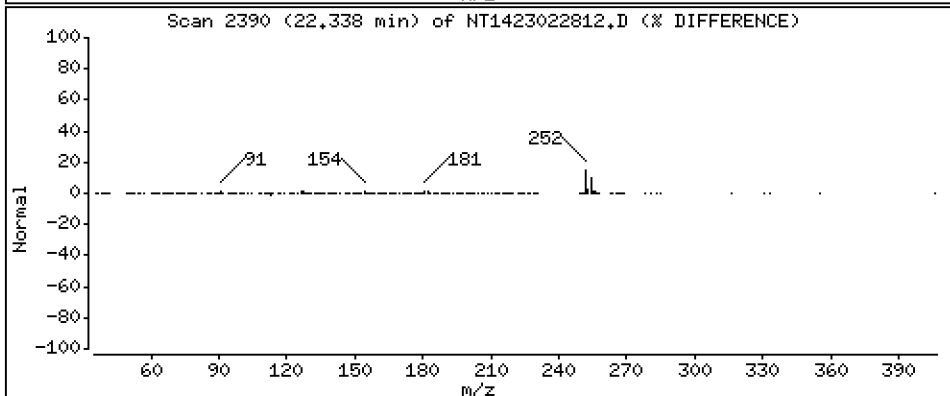
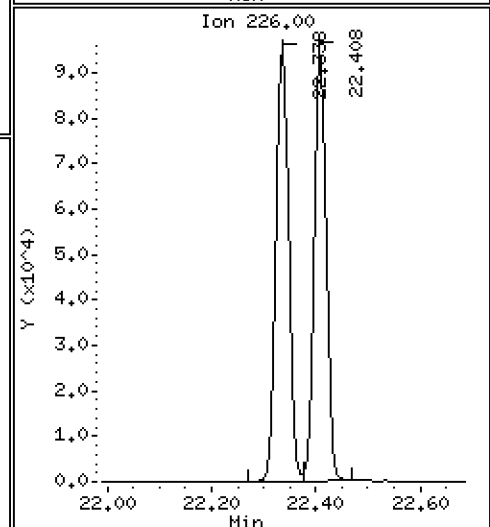
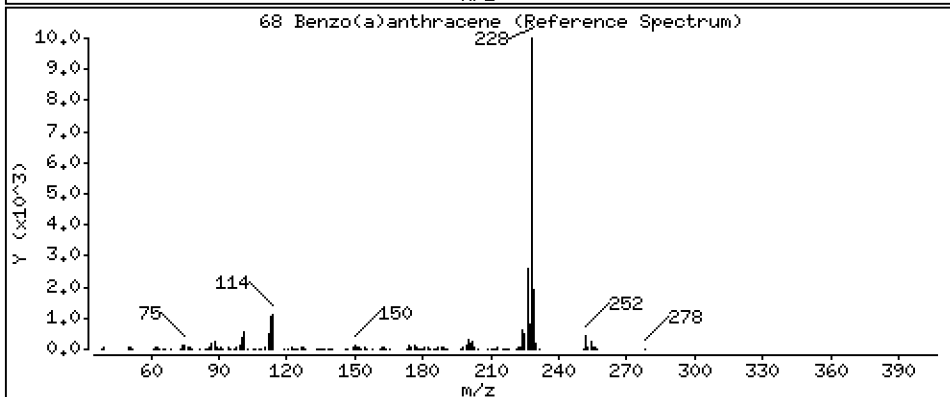
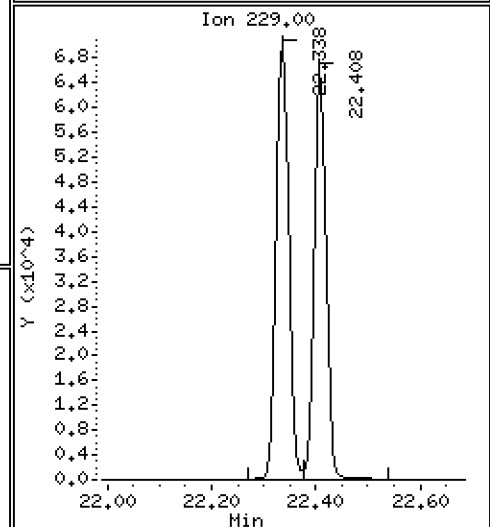
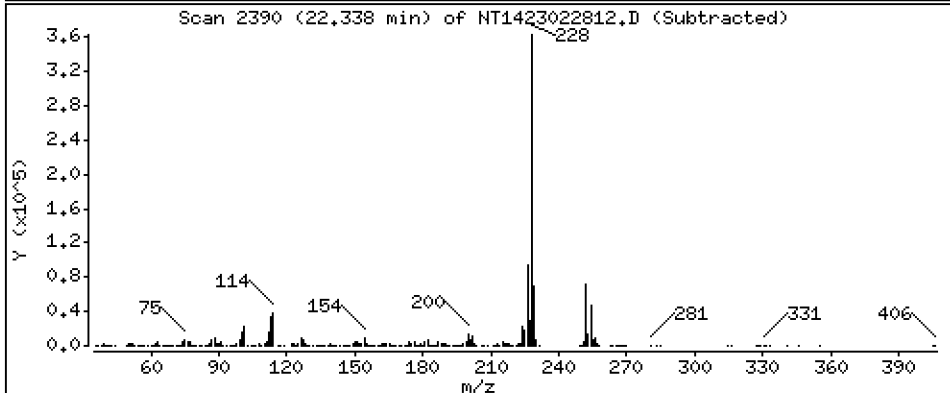
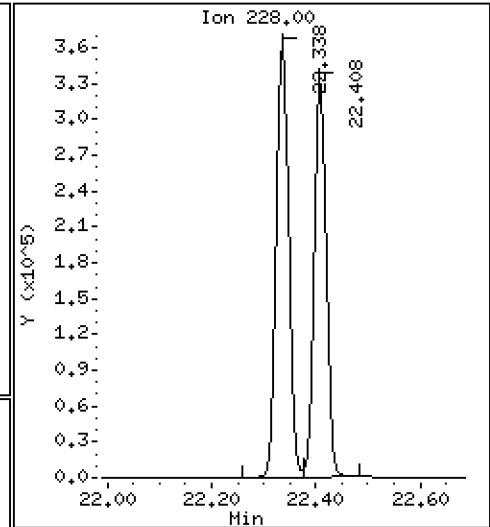
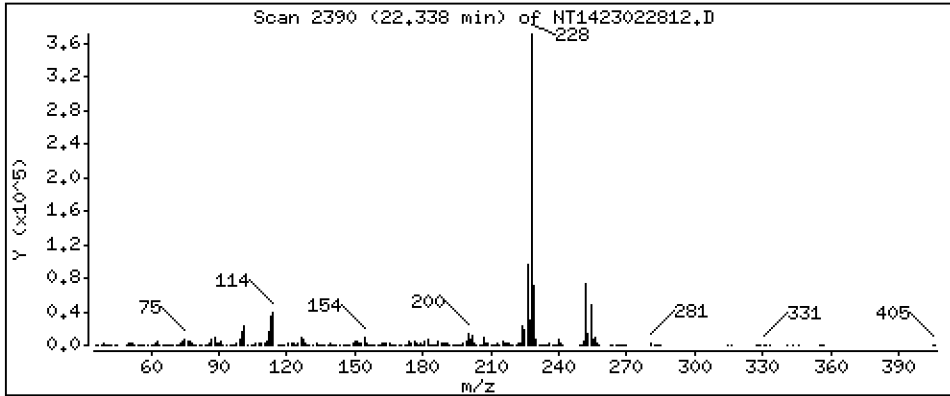
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 4,917 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

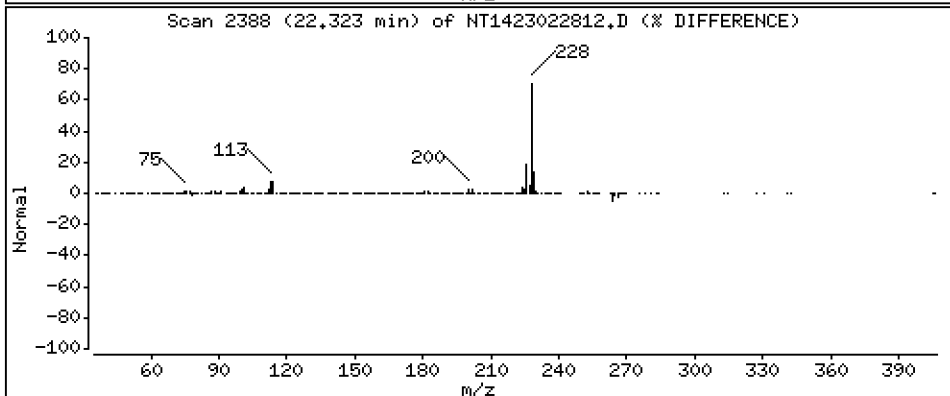
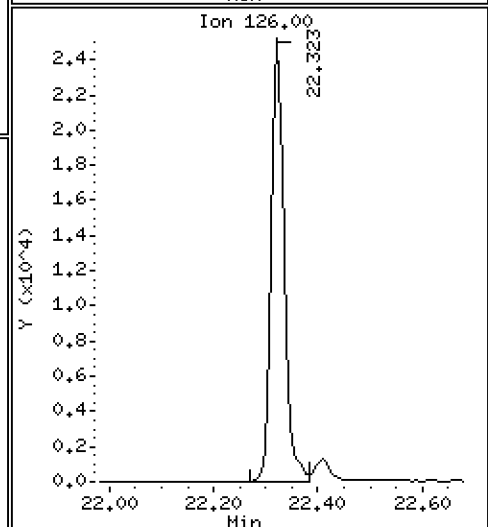
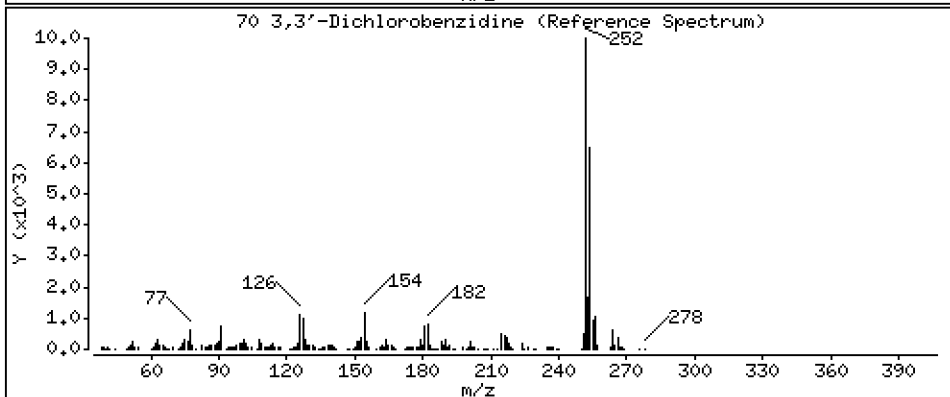
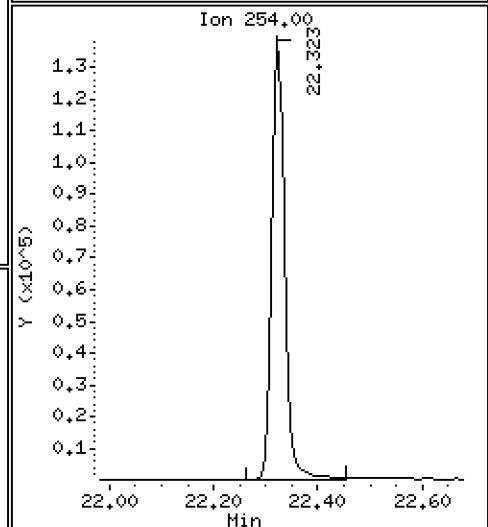
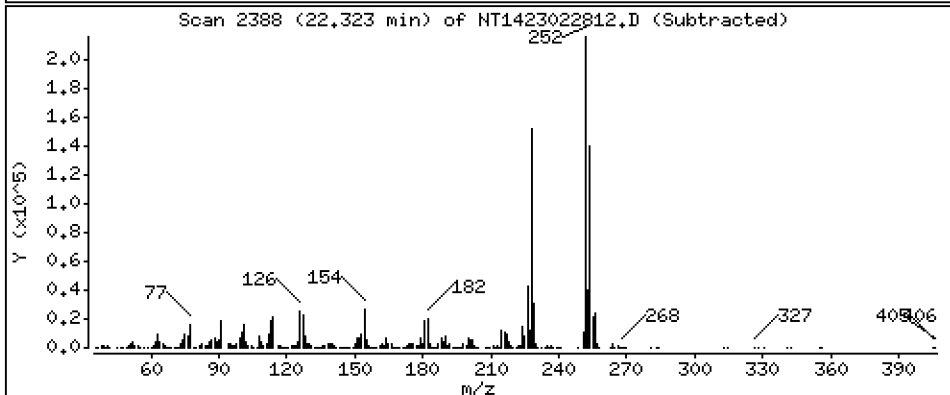
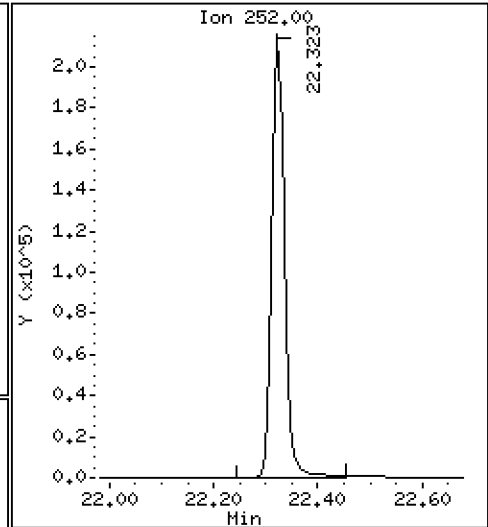
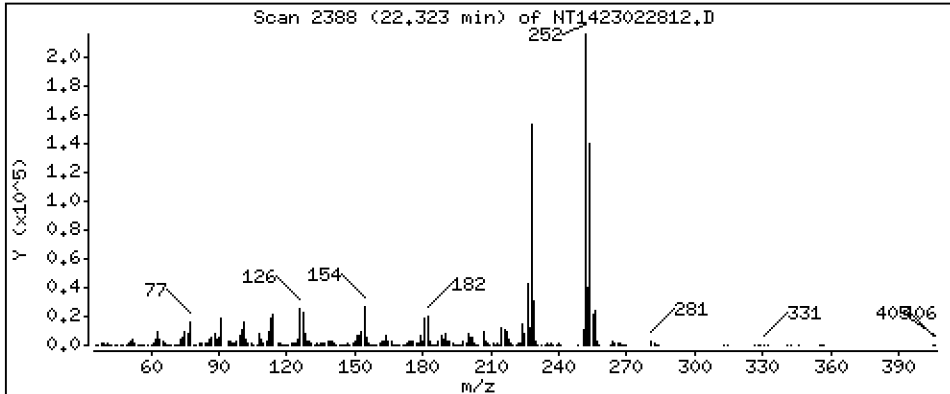
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

70 3,3'-Dichlorobenzidine

Concentration: 10,29 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

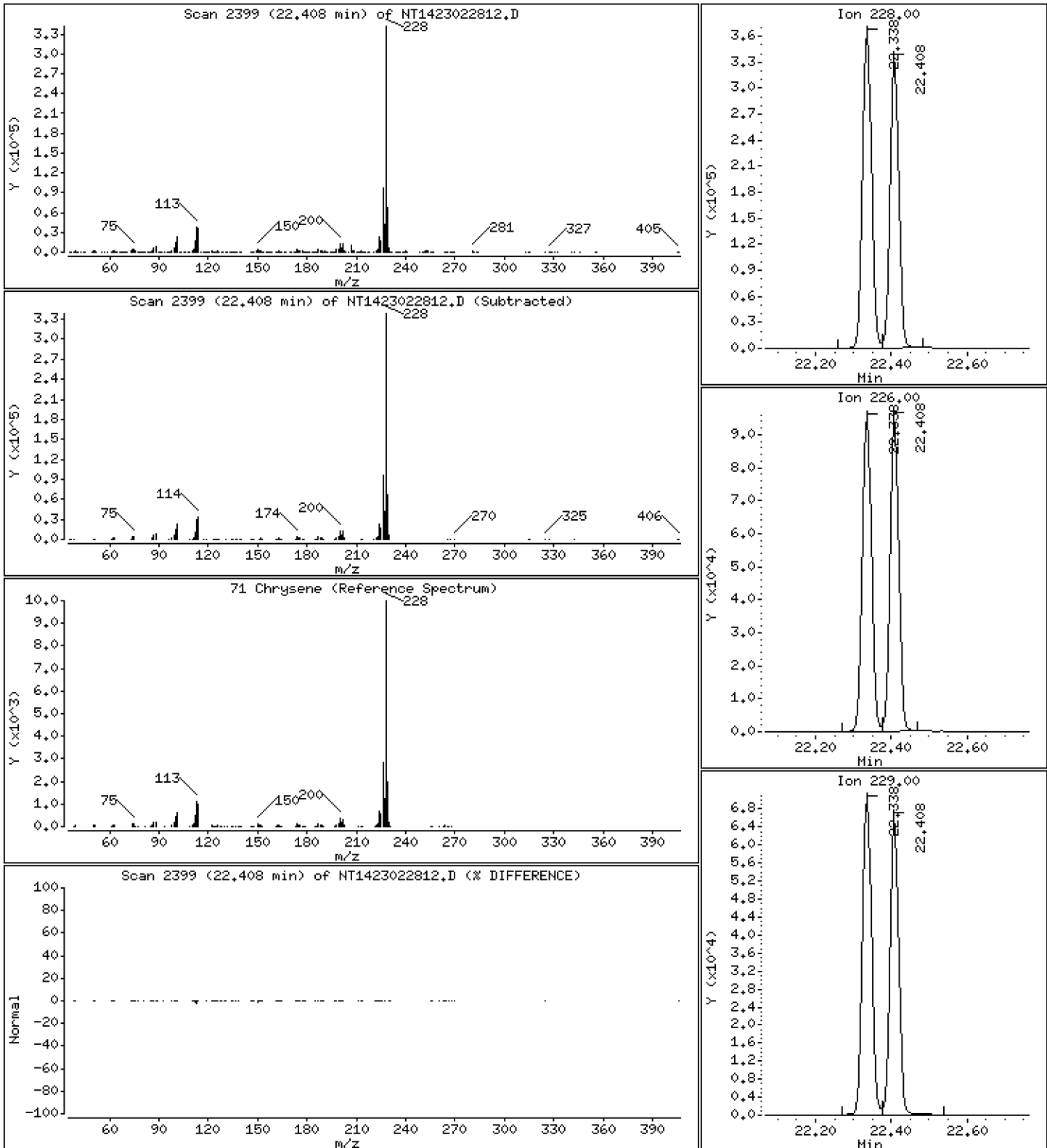
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 4,556 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

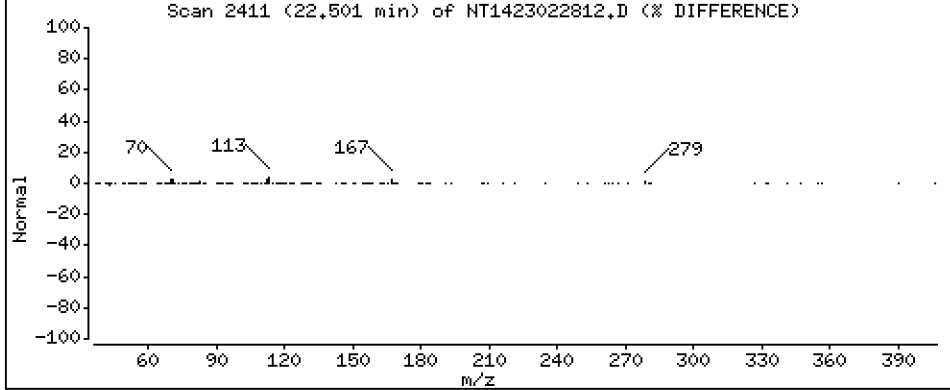
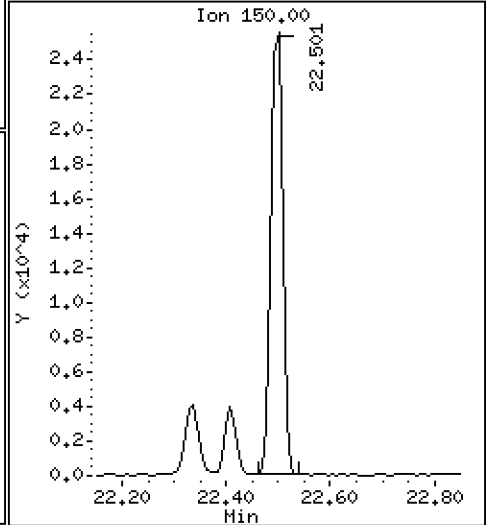
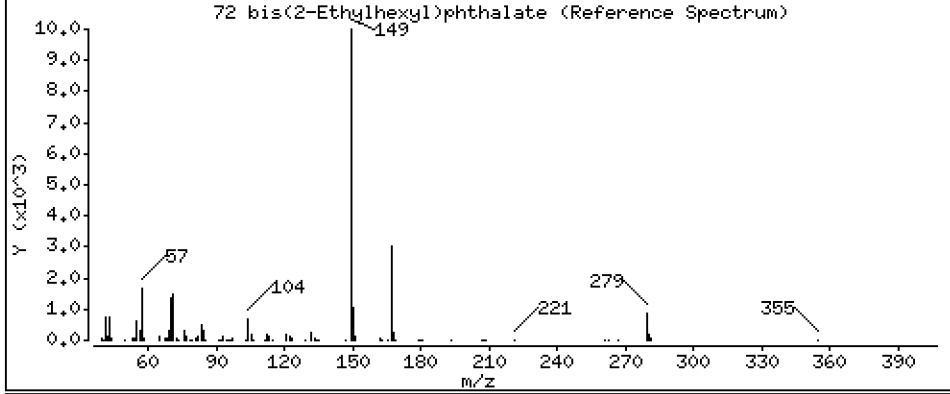
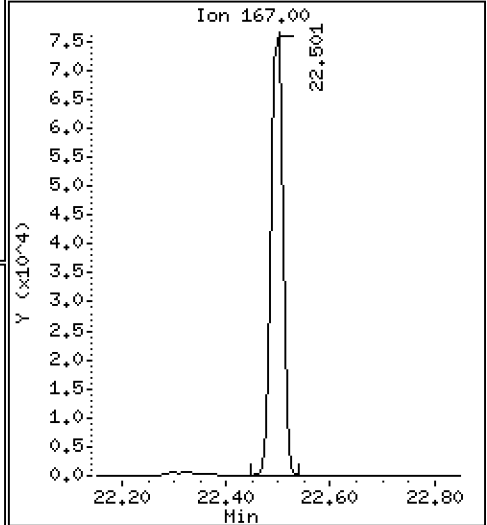
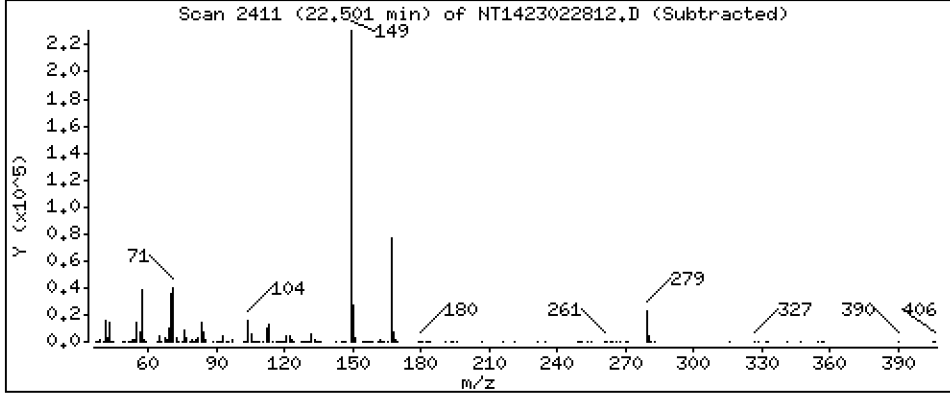
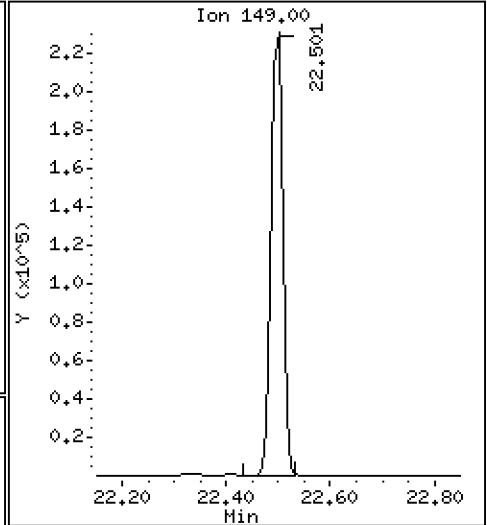
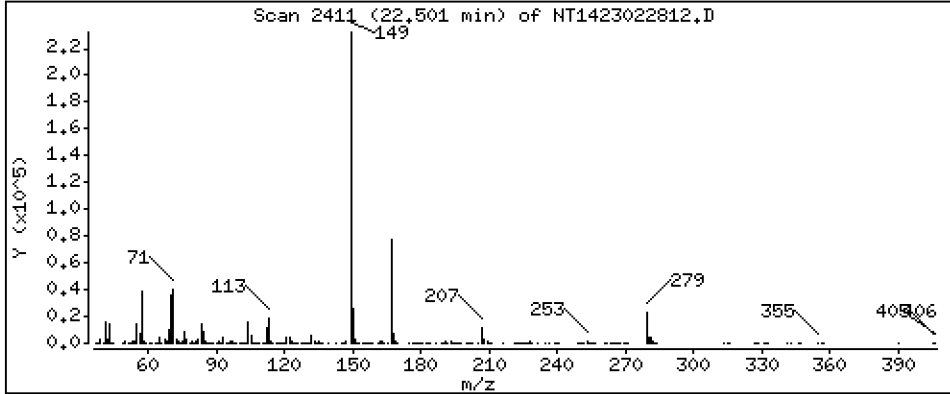
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 5,277 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

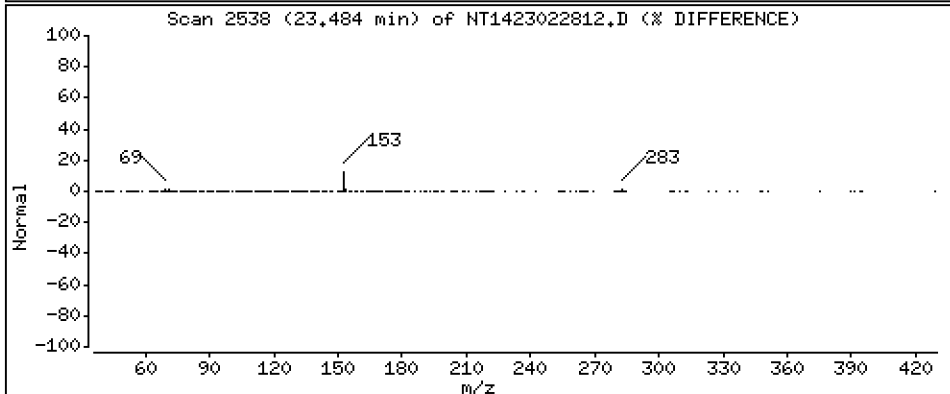
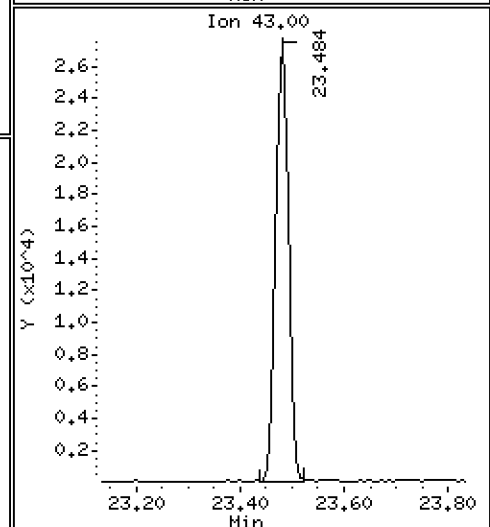
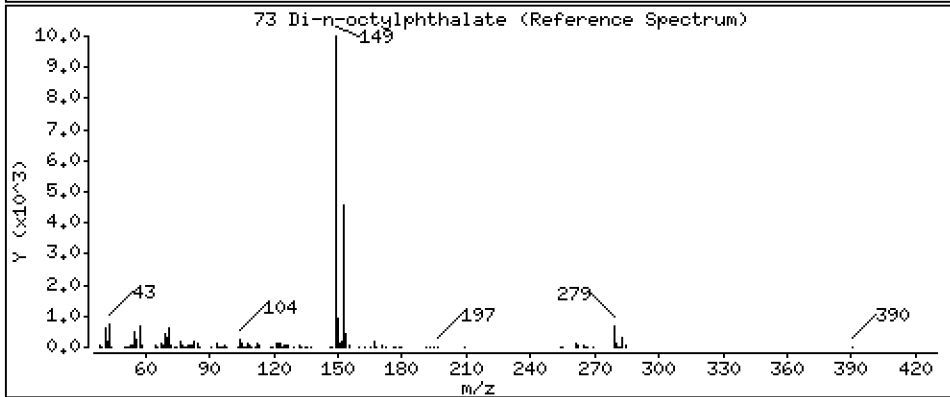
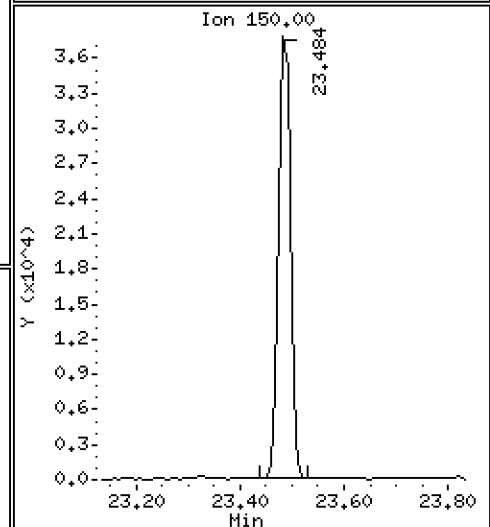
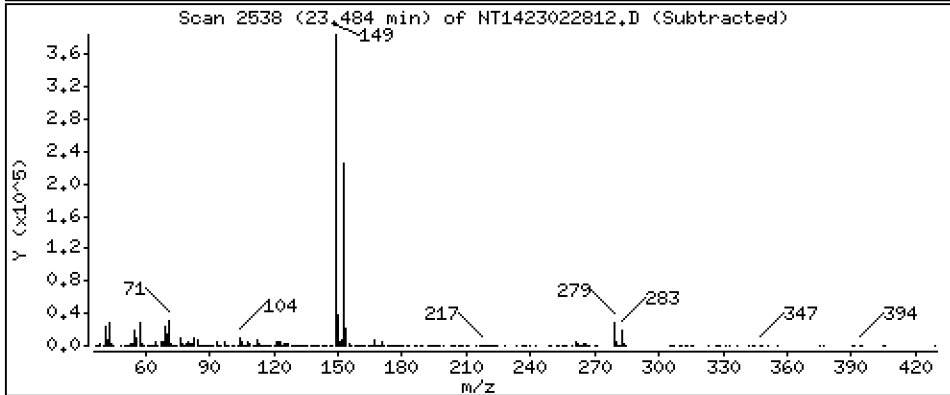
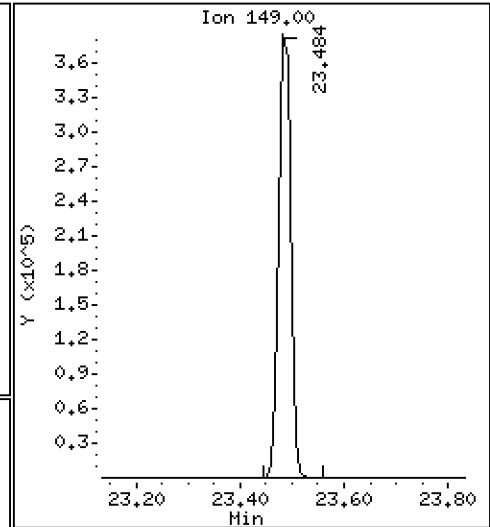
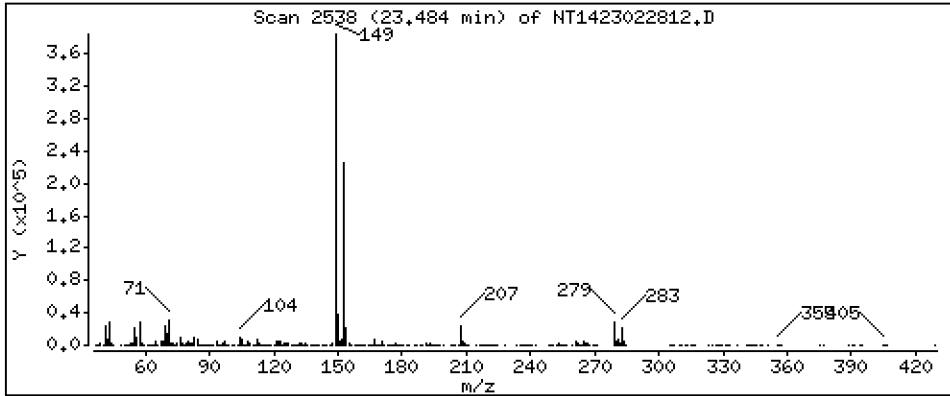
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 5,183 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

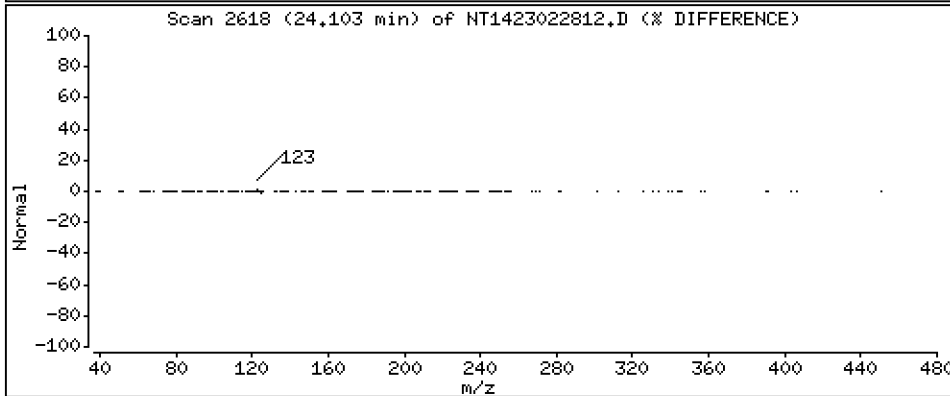
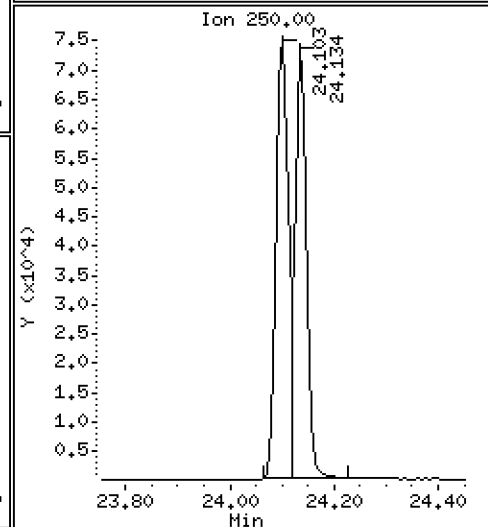
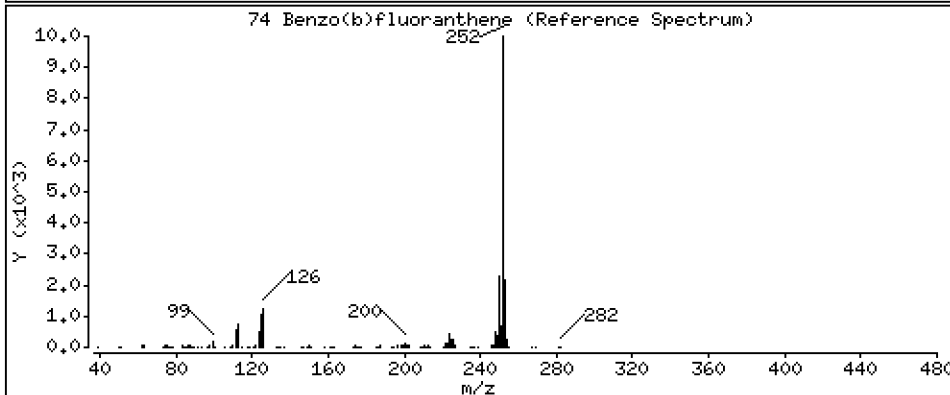
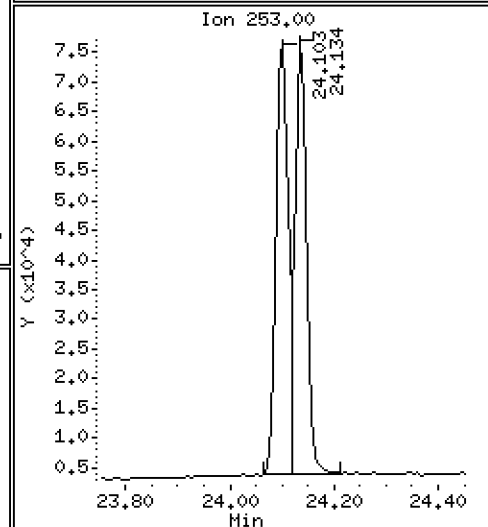
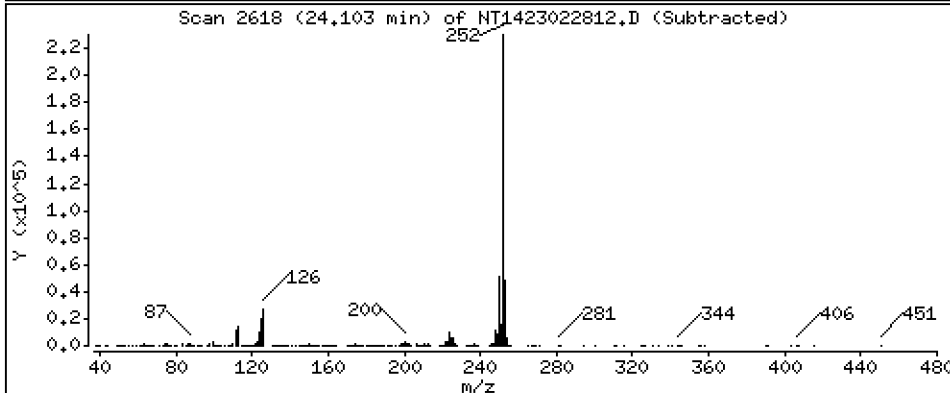
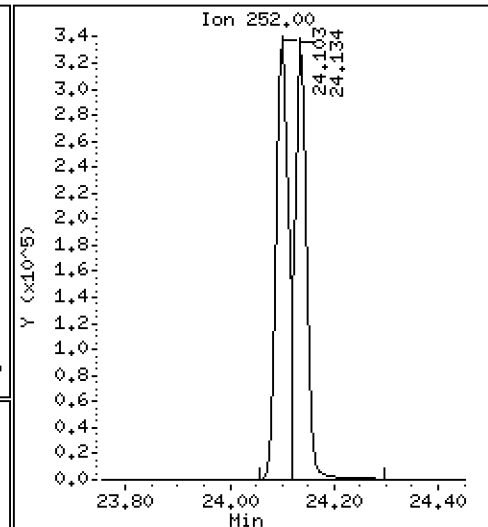
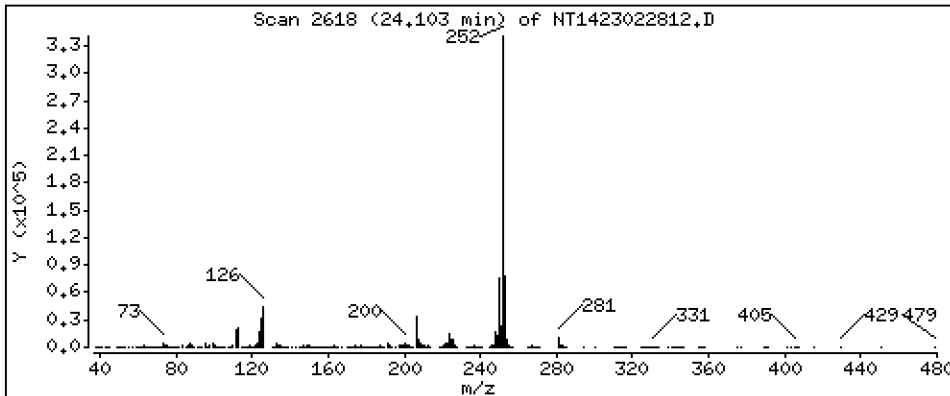
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 4,872 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

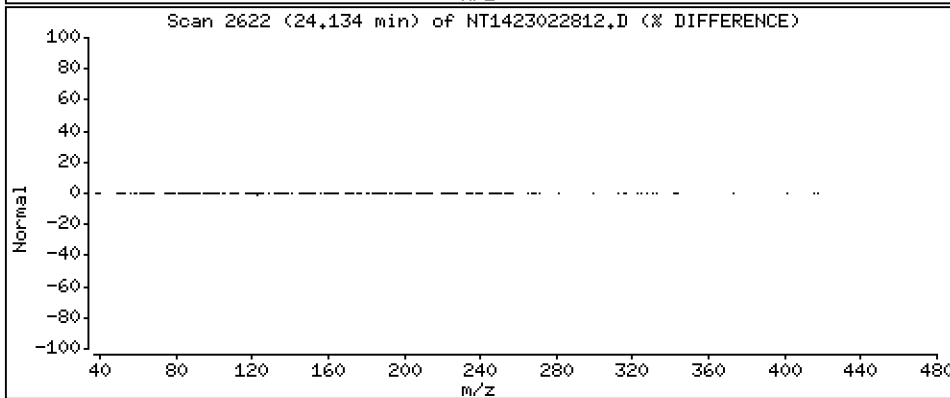
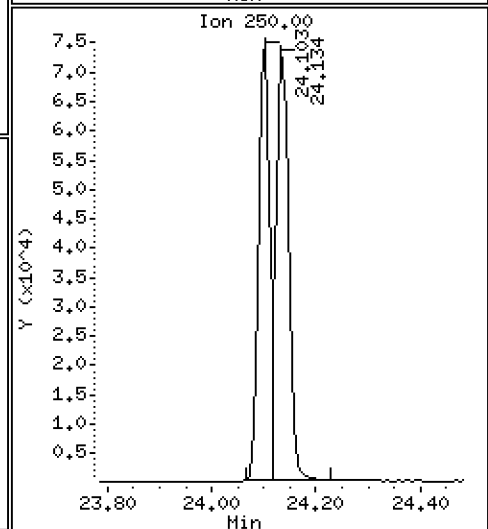
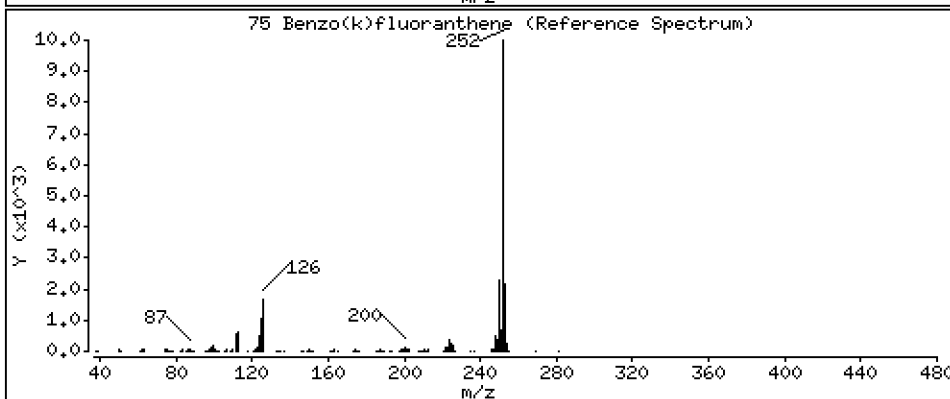
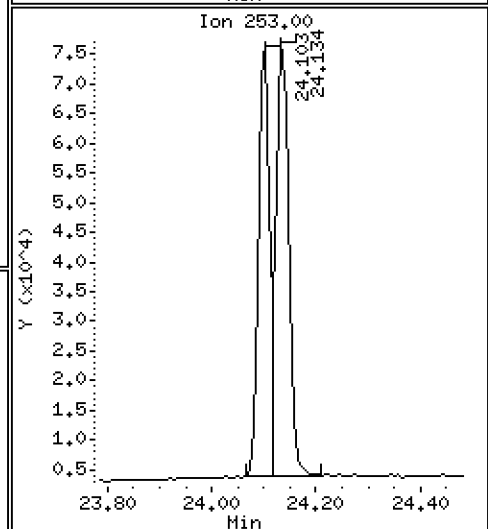
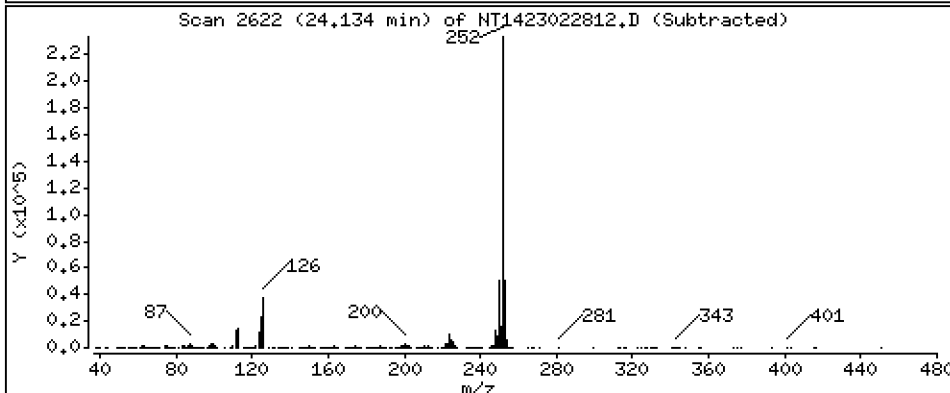
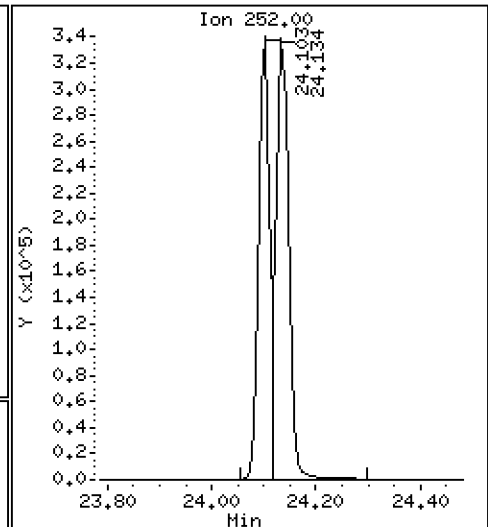
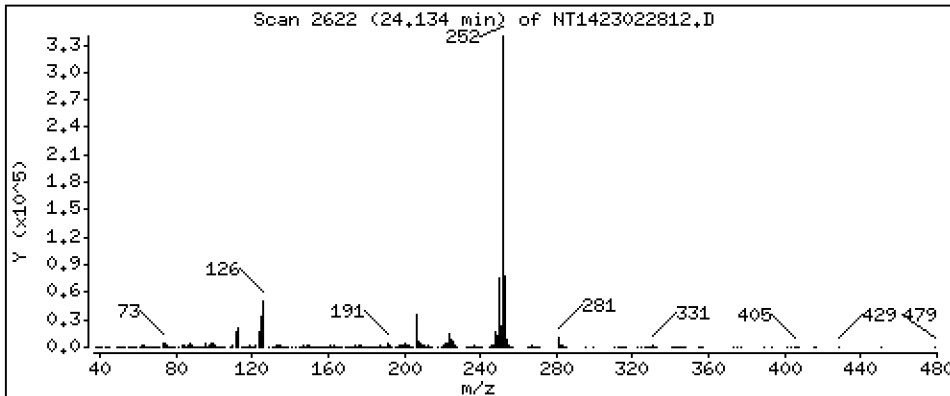
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 4,663 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

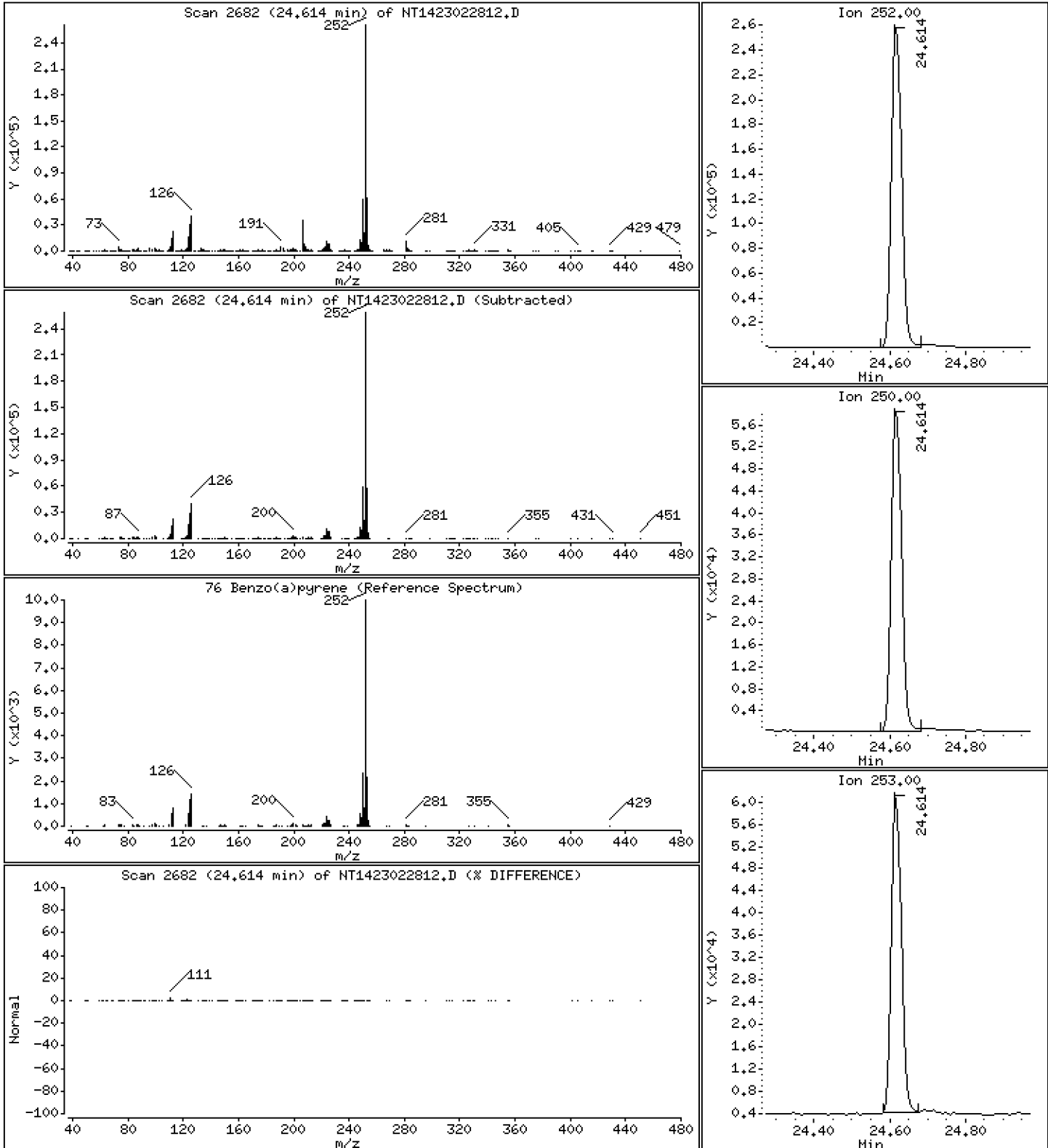
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 4,886 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

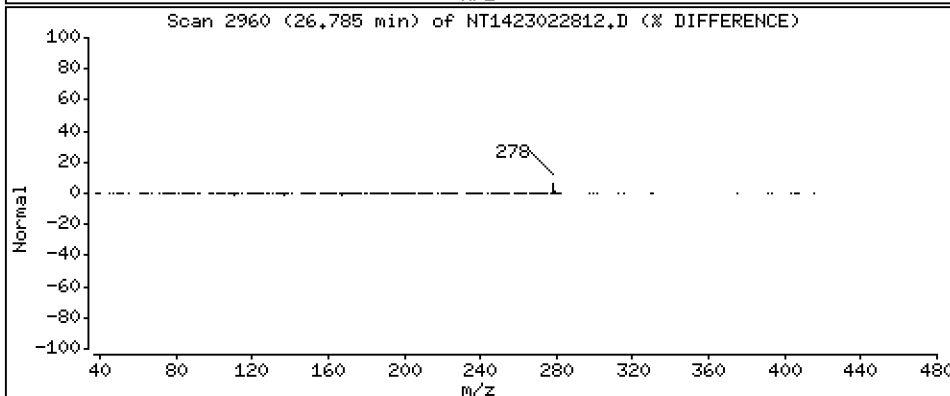
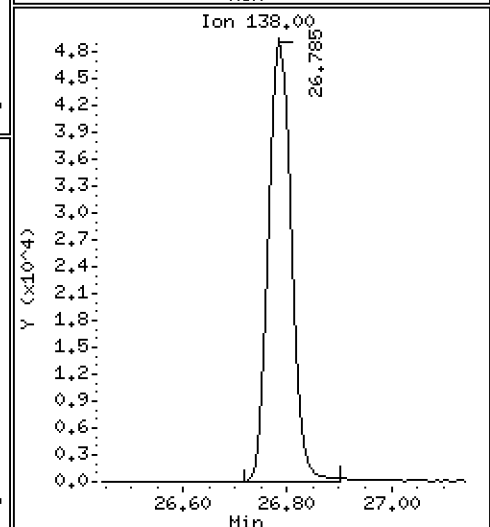
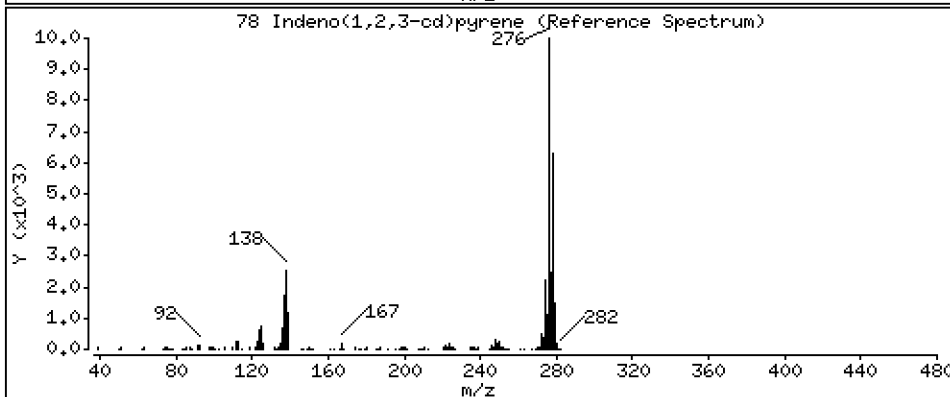
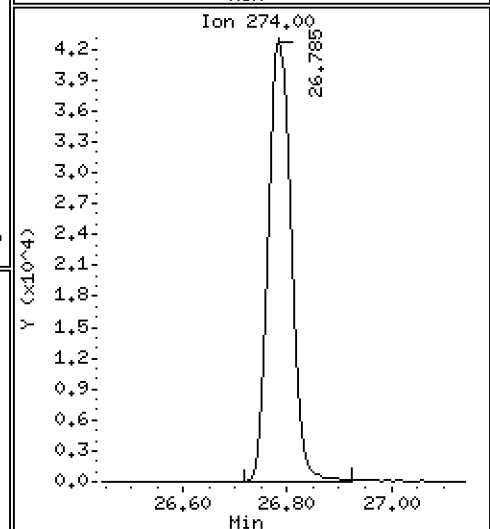
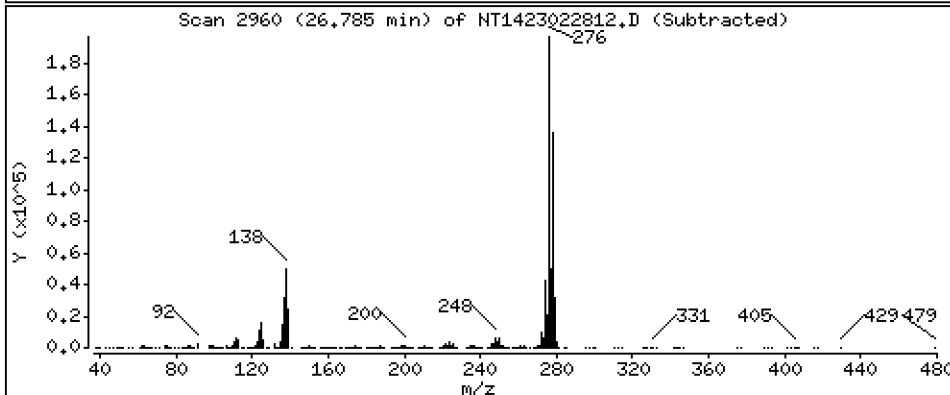
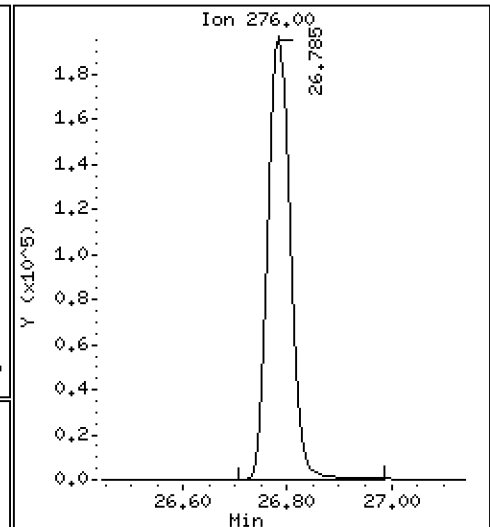
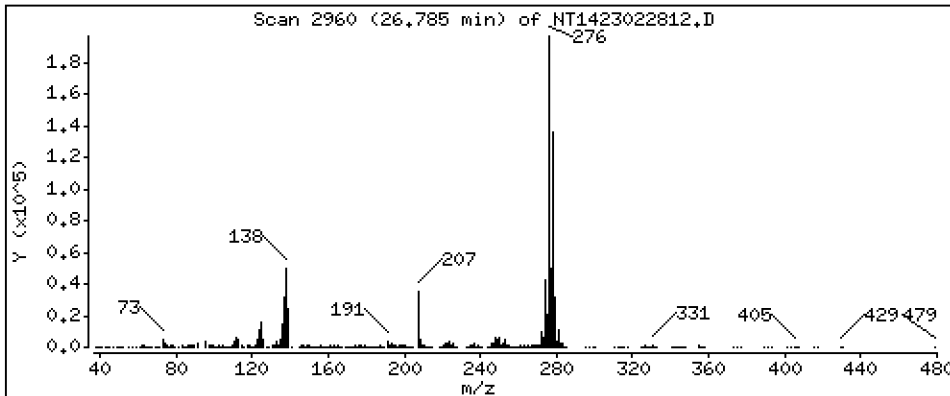
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 4,892 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

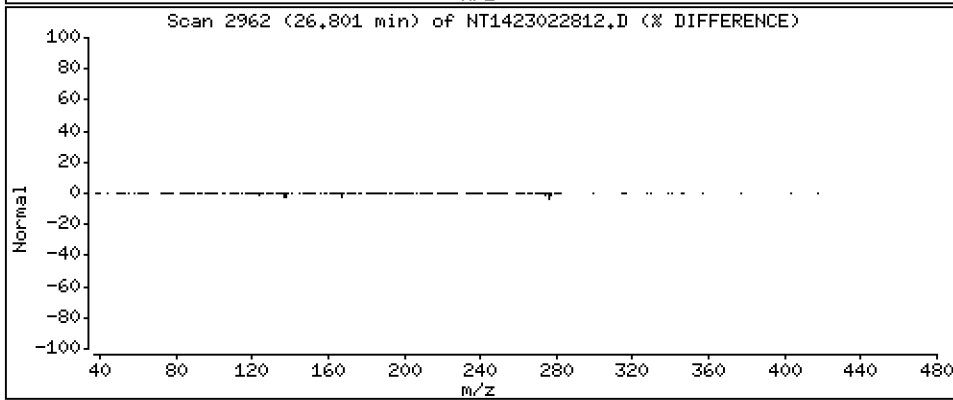
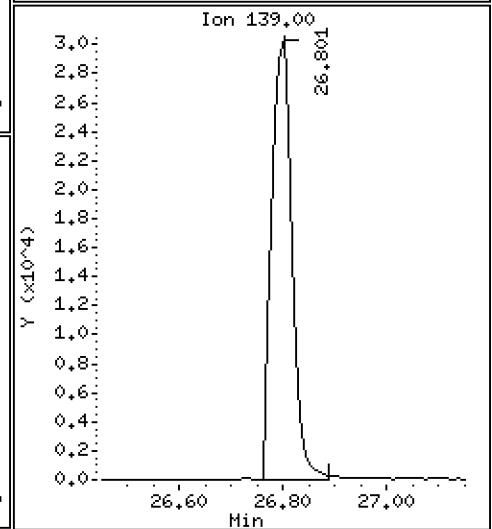
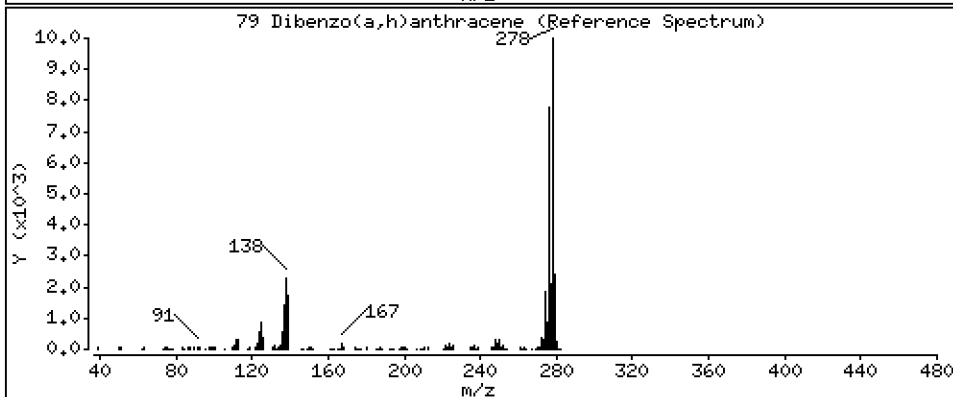
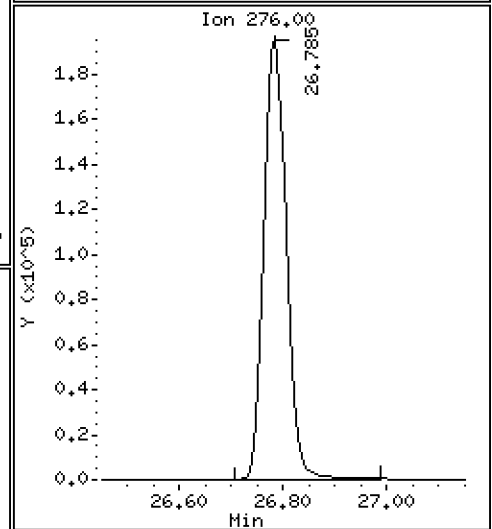
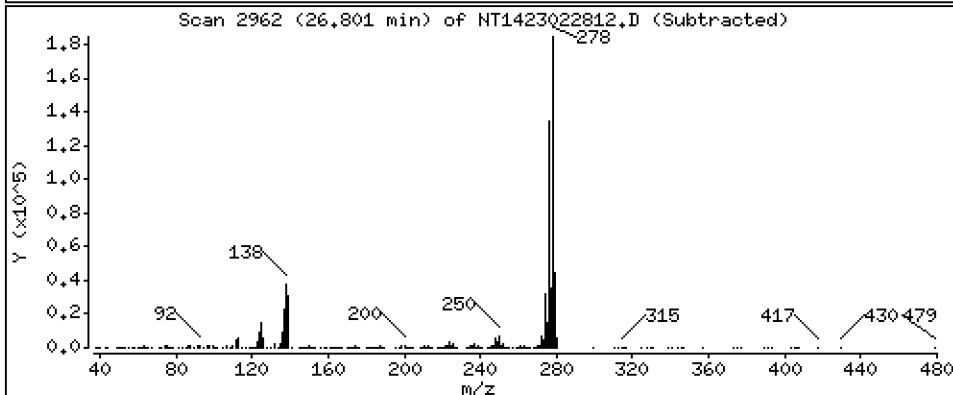
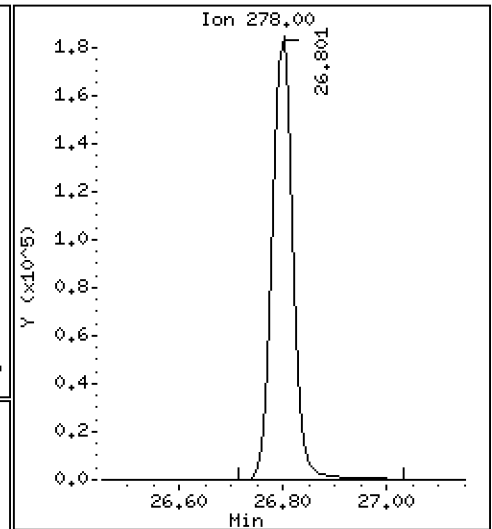
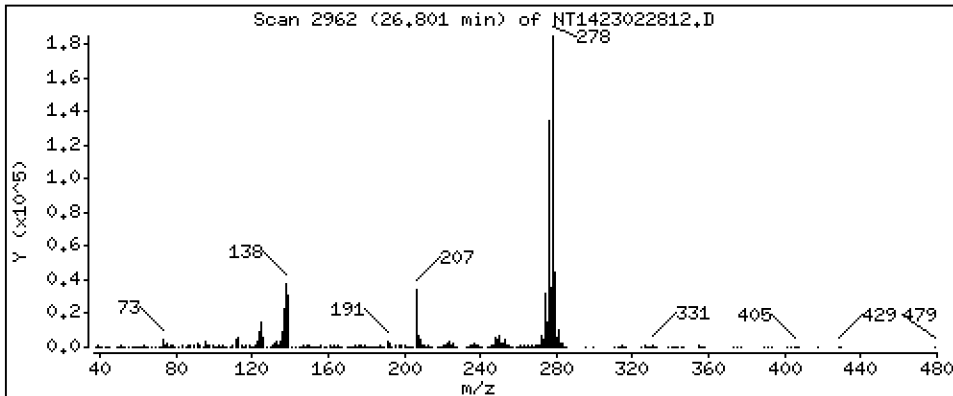
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 4,907 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

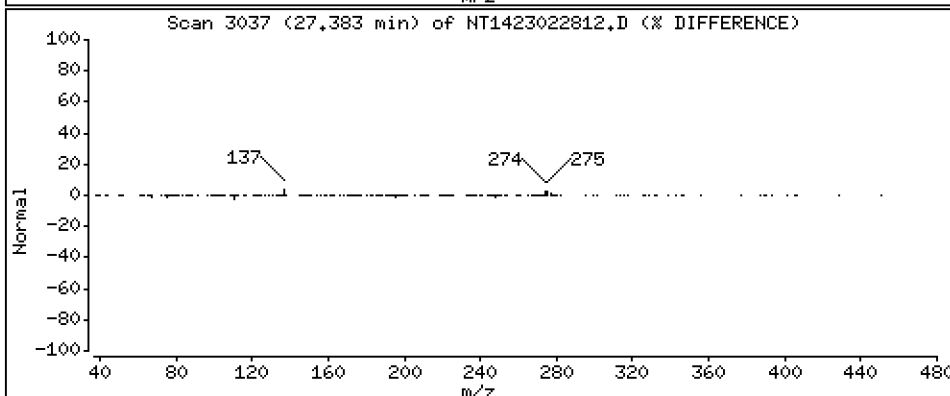
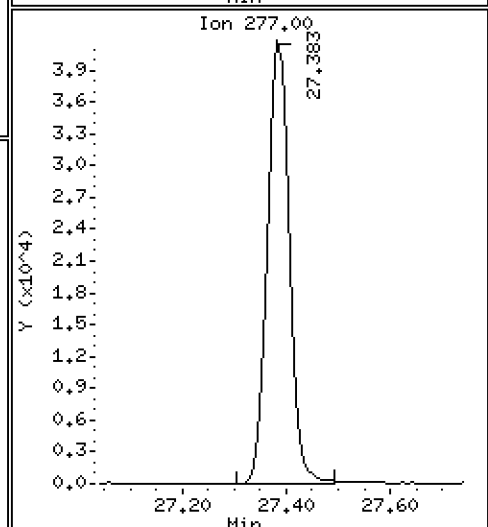
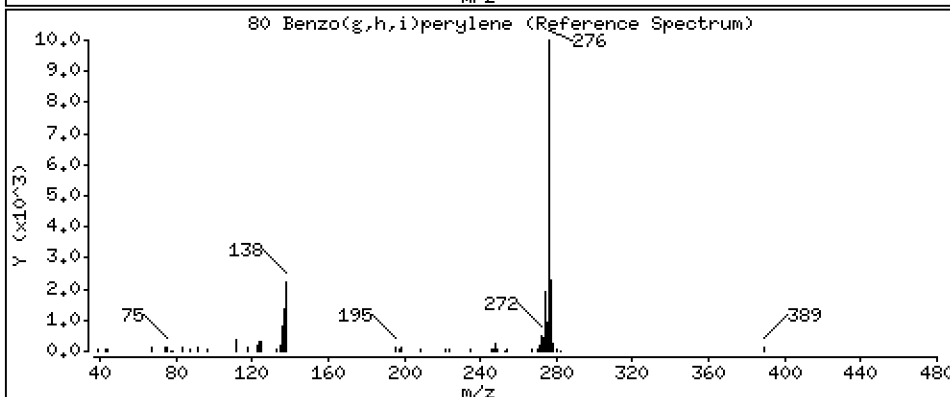
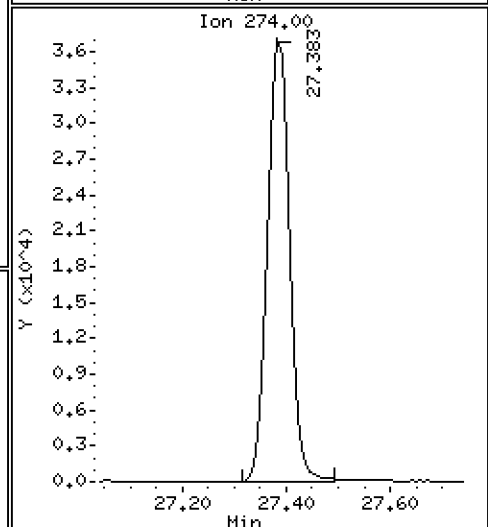
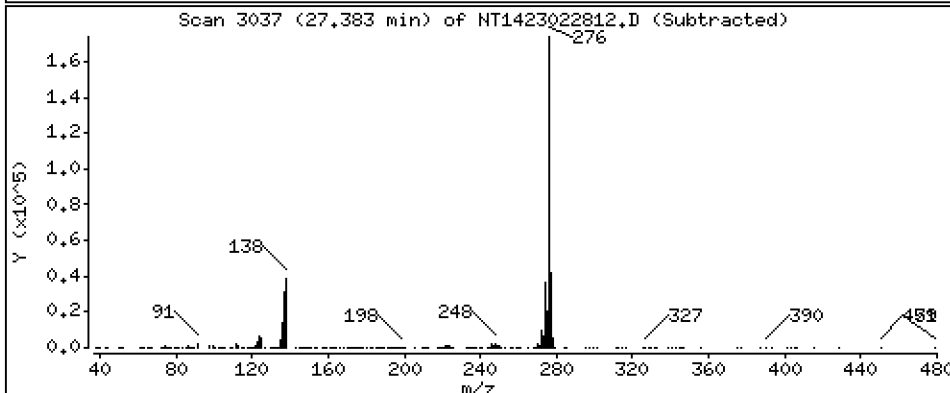
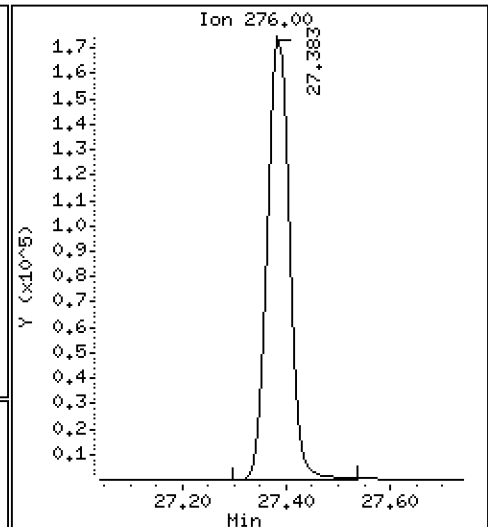
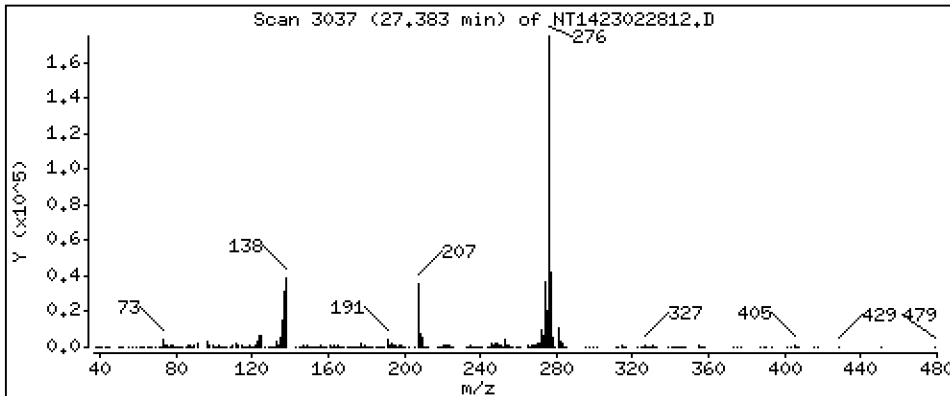
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 4,858 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

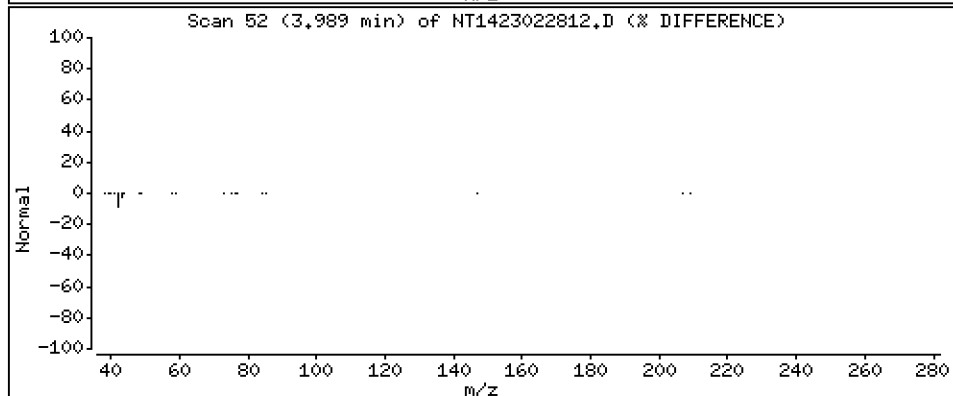
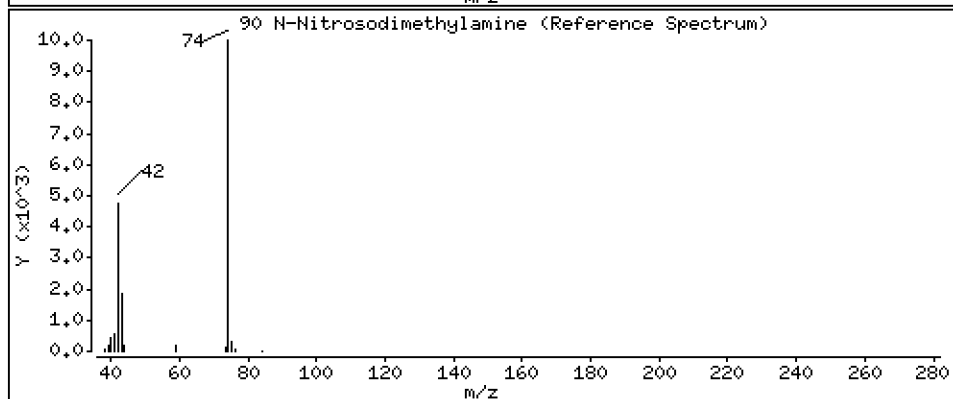
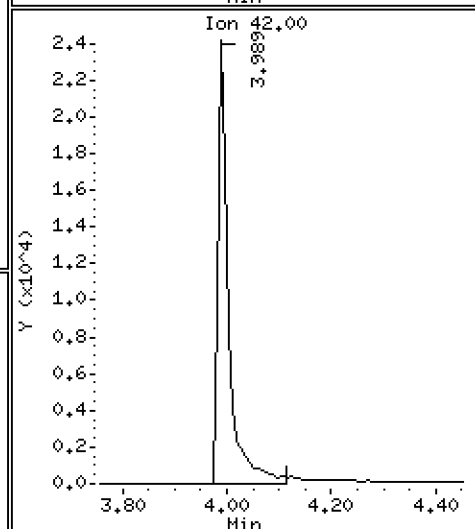
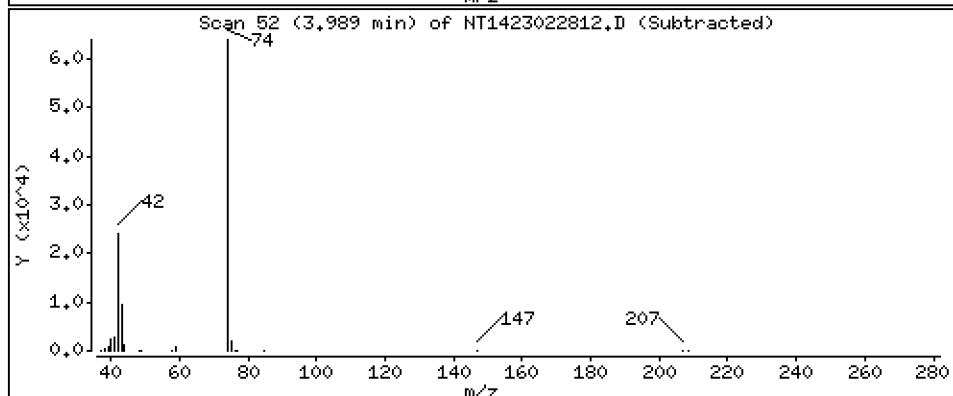
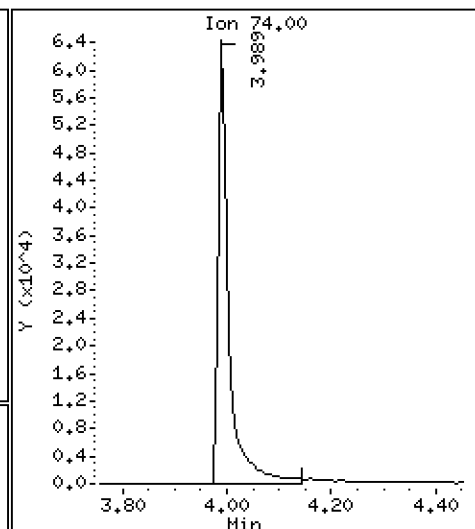
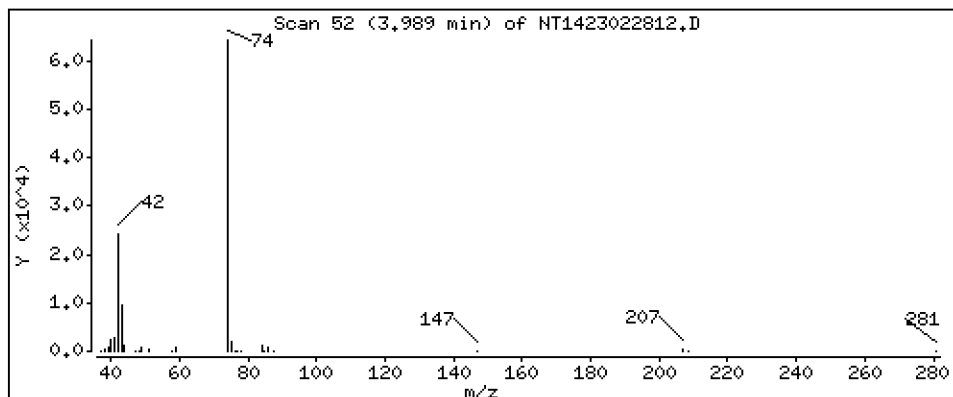
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

90 N-Nitrosodimethylamine

Concentration: 4,507 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

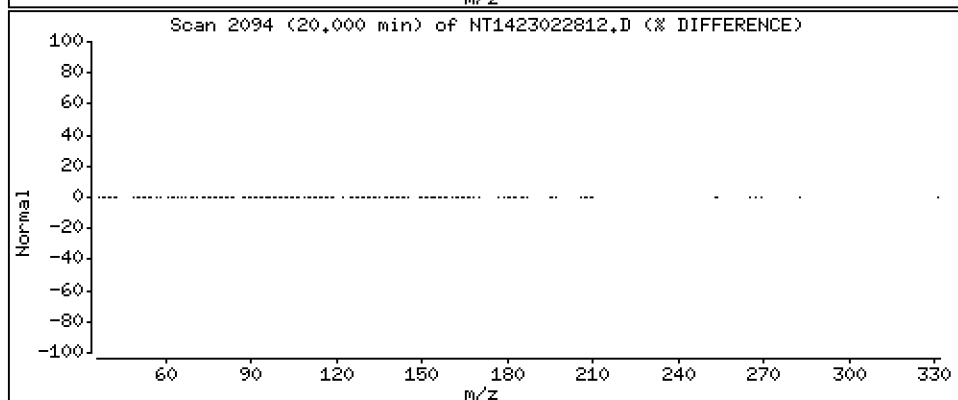
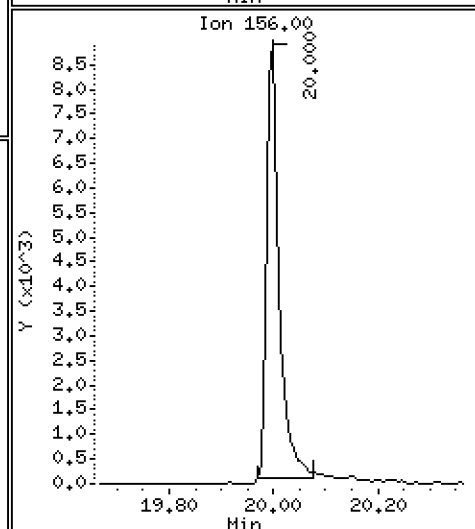
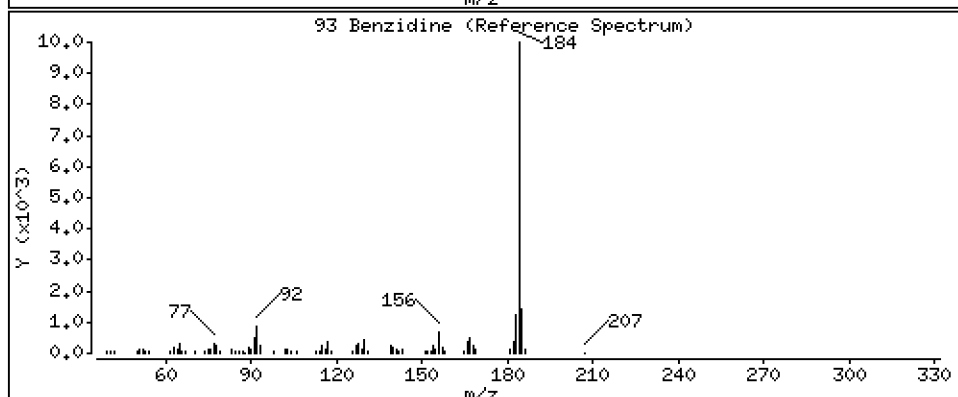
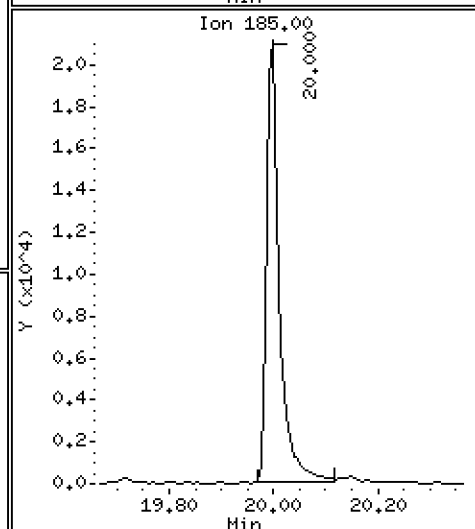
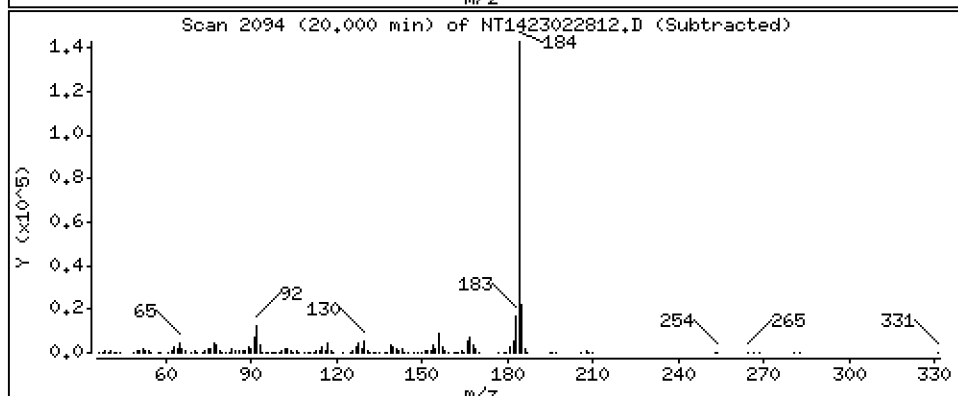
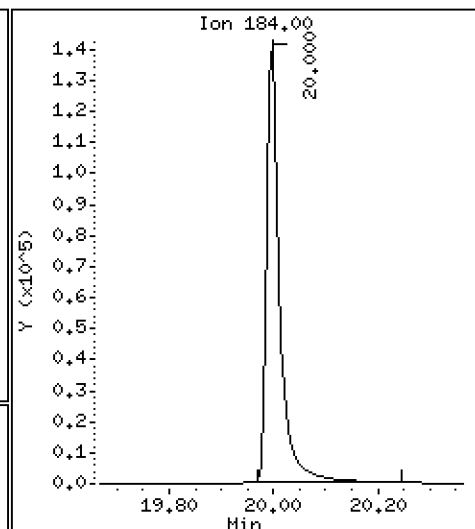
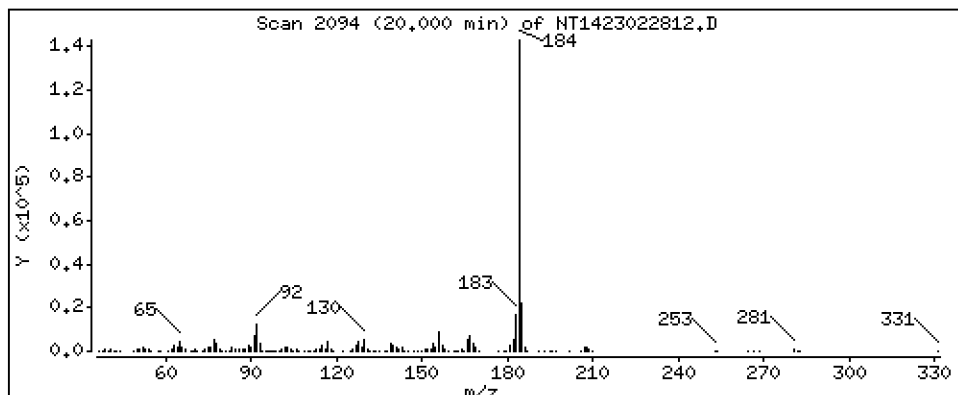
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

93 Benzidine

Concentration: 4,509 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

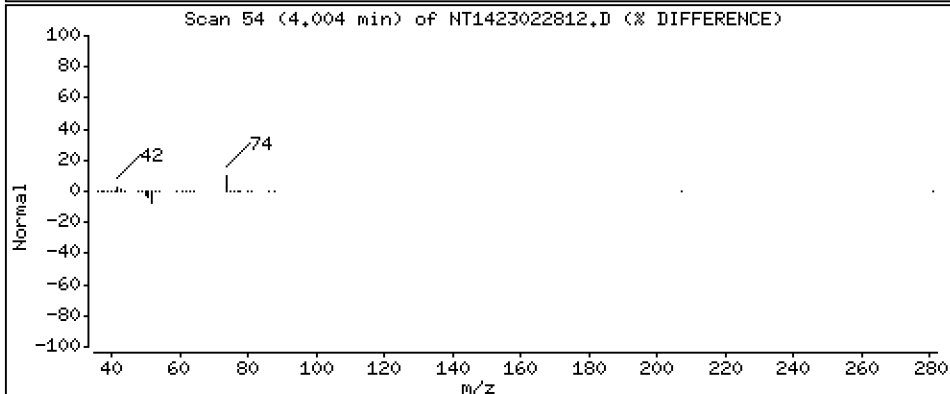
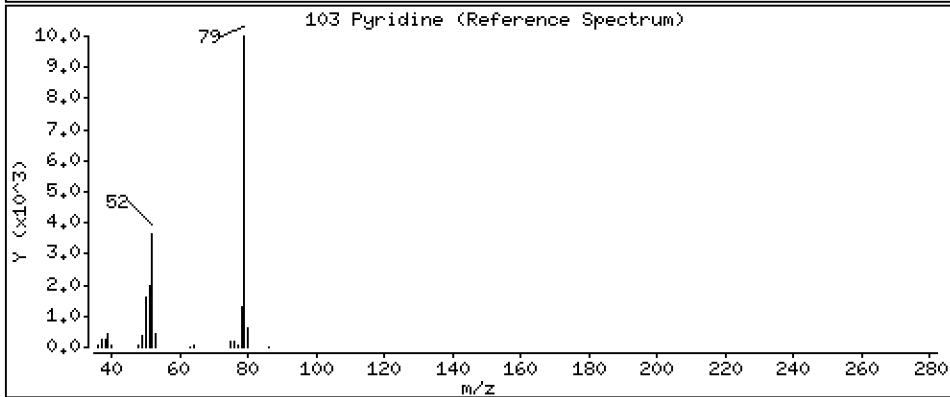
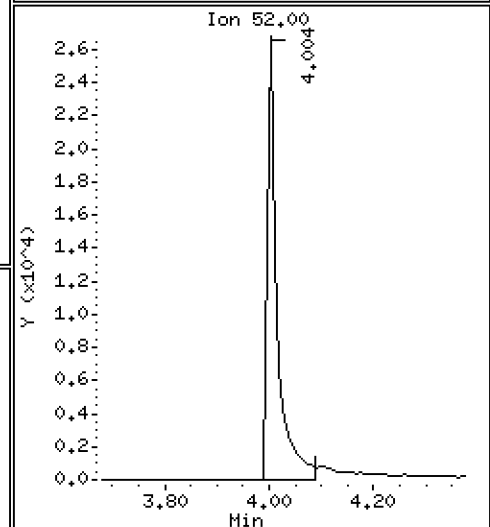
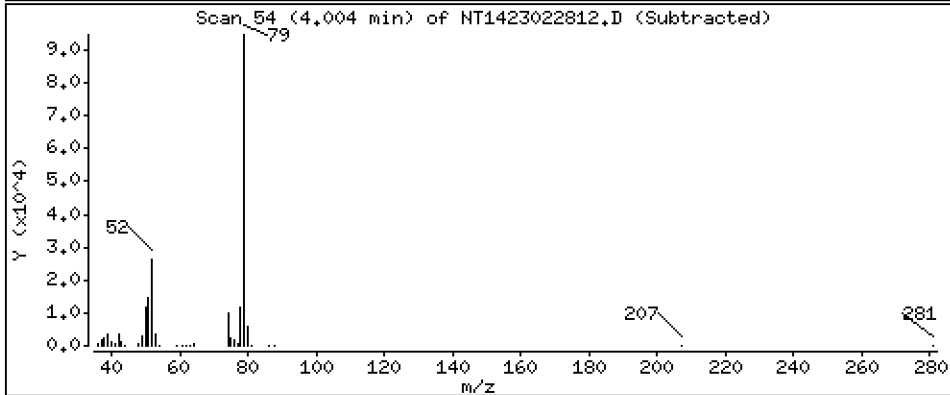
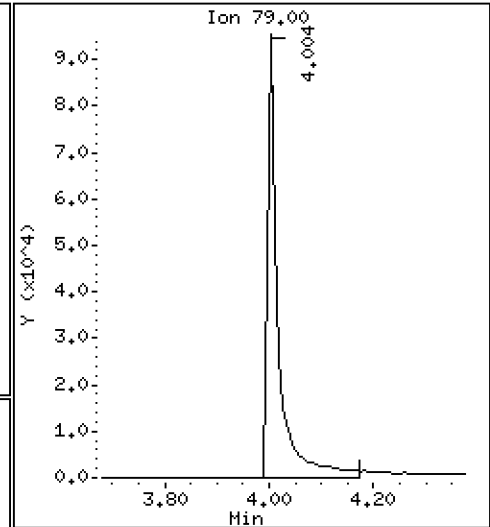
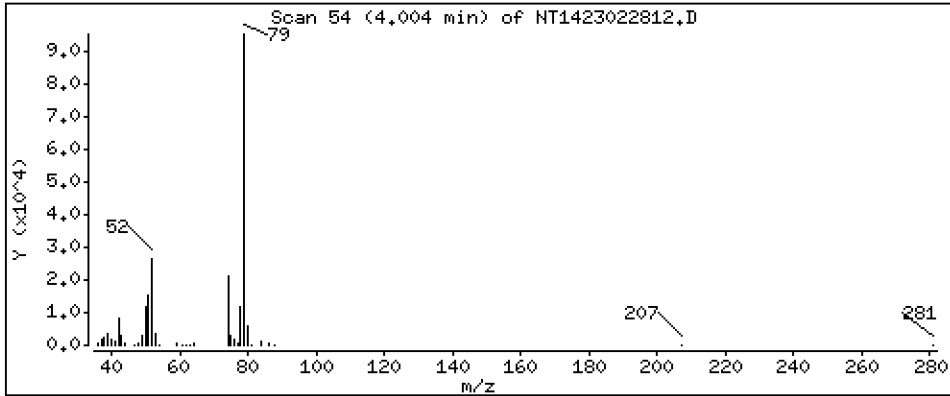
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

103 Pyridine

Concentration: 2,196 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

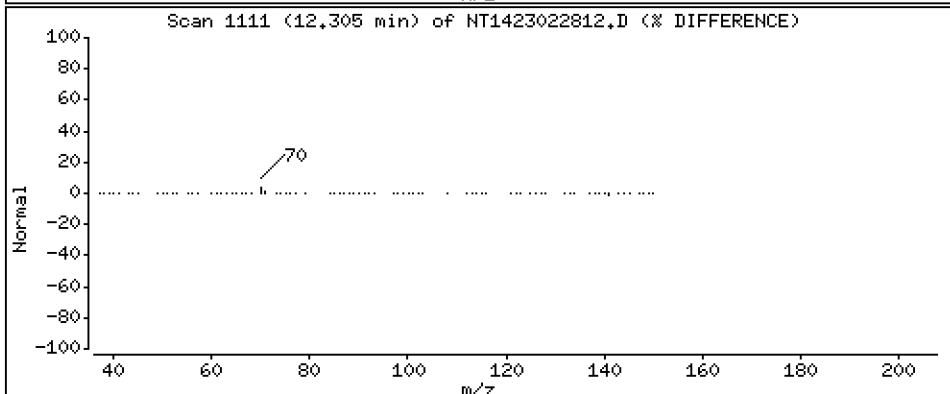
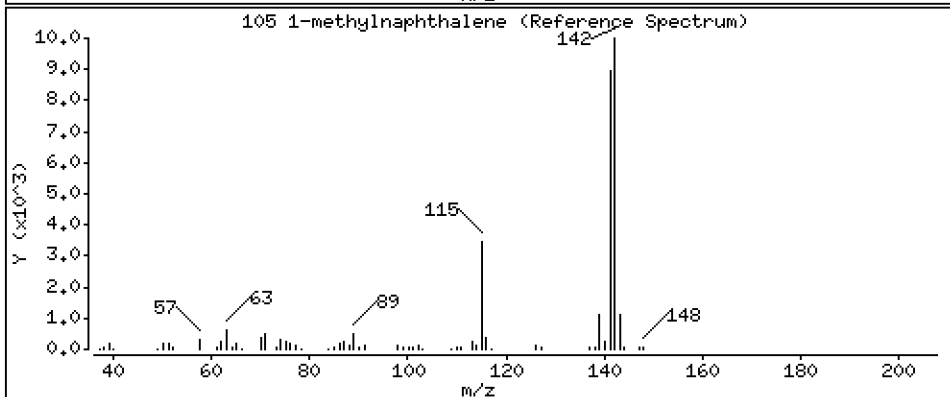
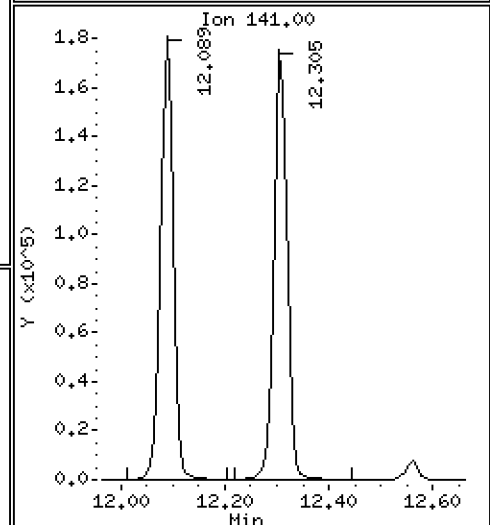
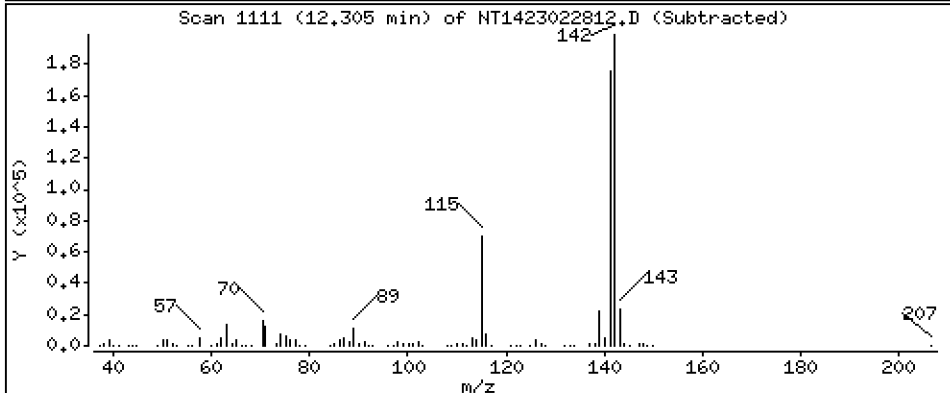
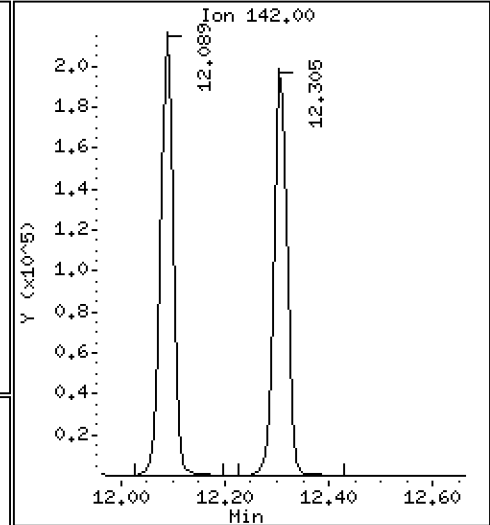
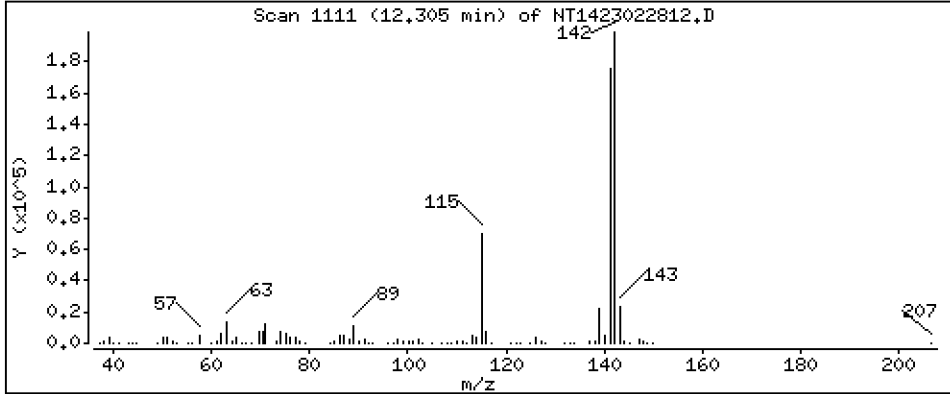
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 4,871 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

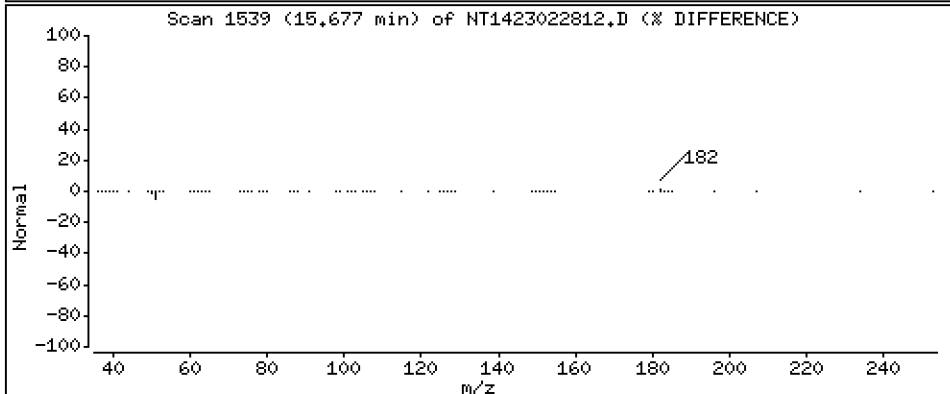
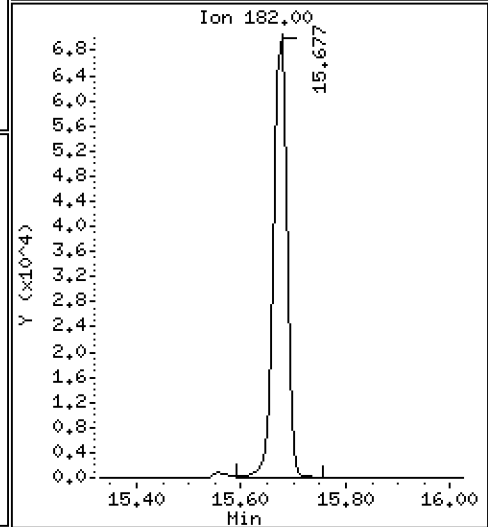
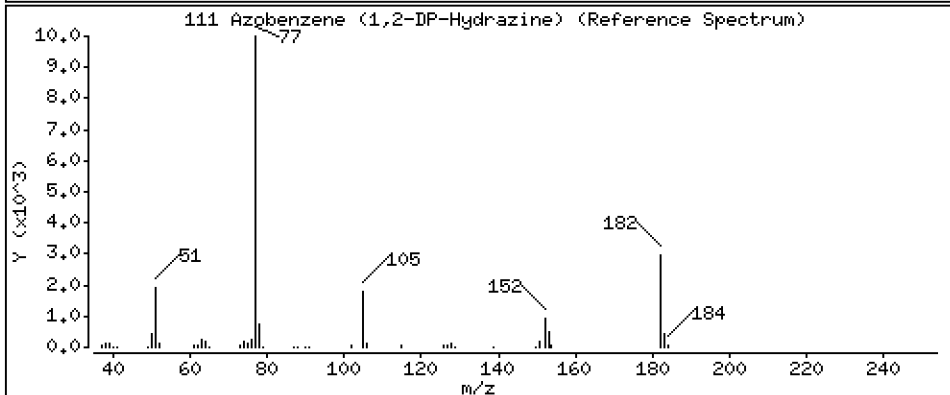
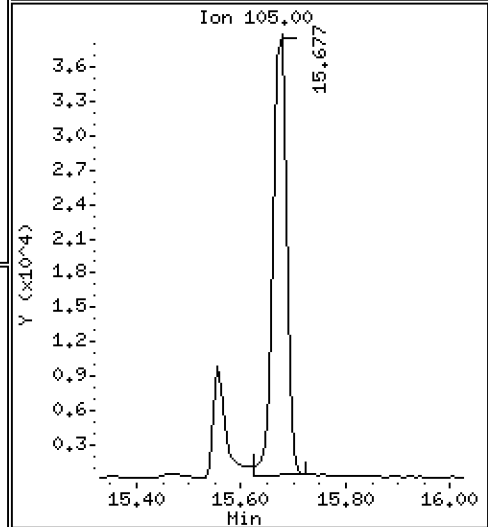
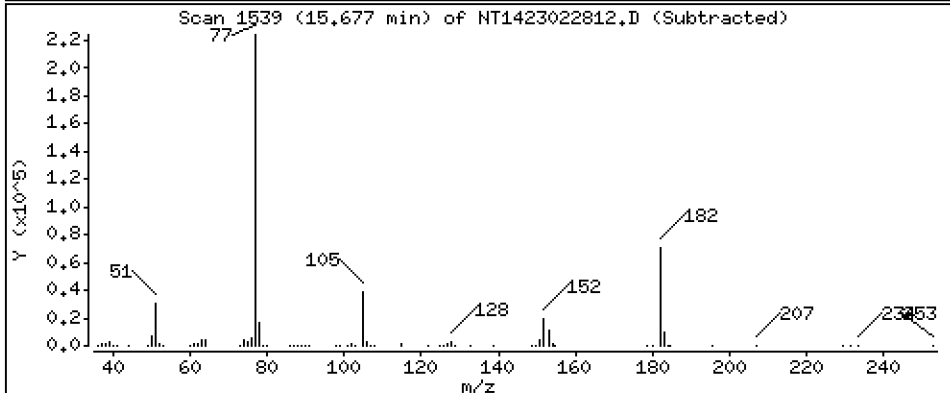
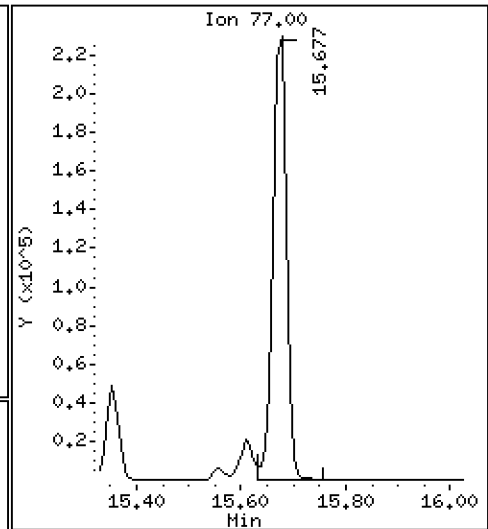
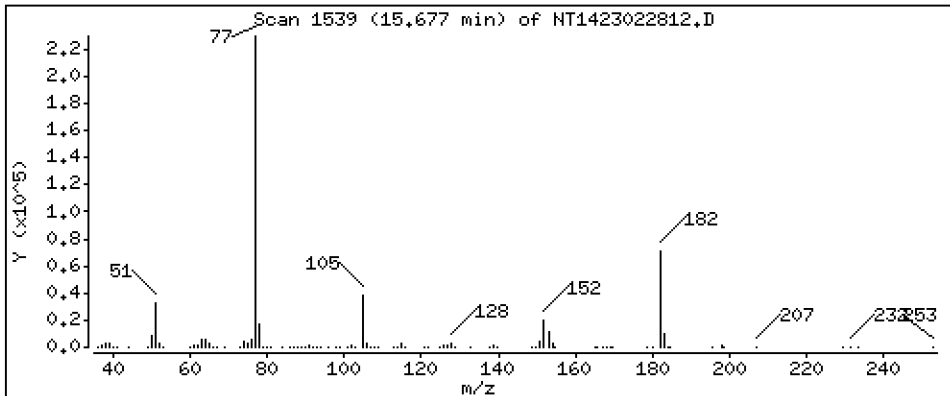
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 5.020 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

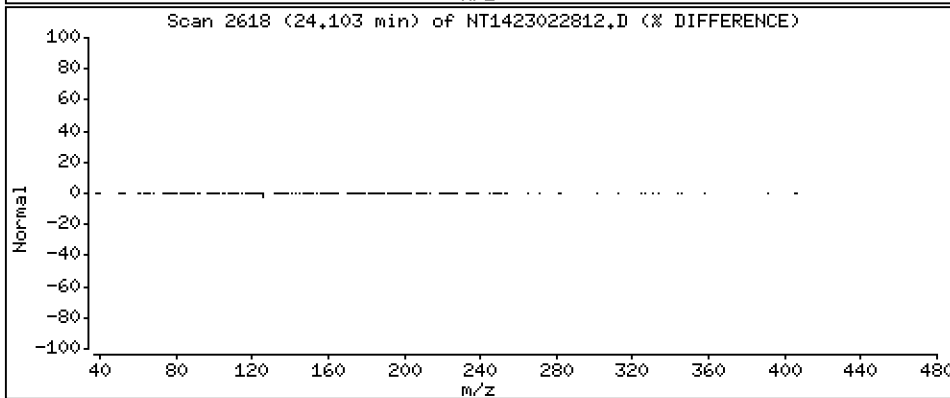
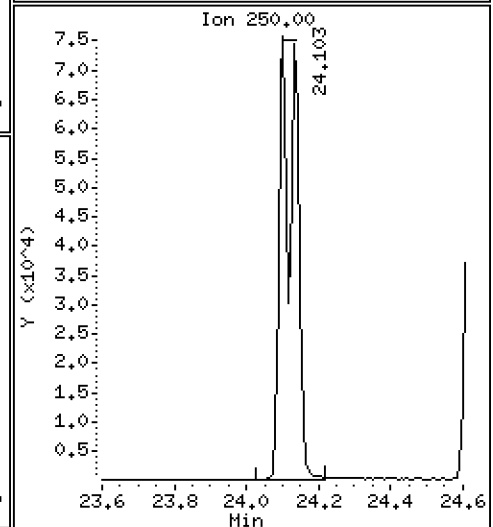
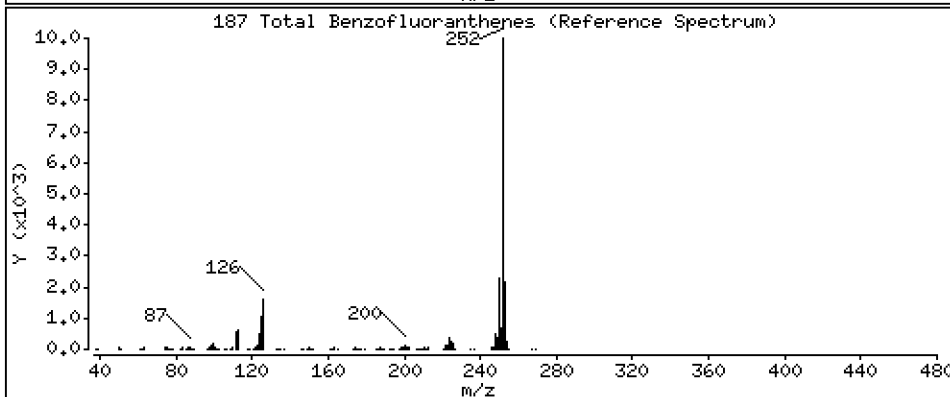
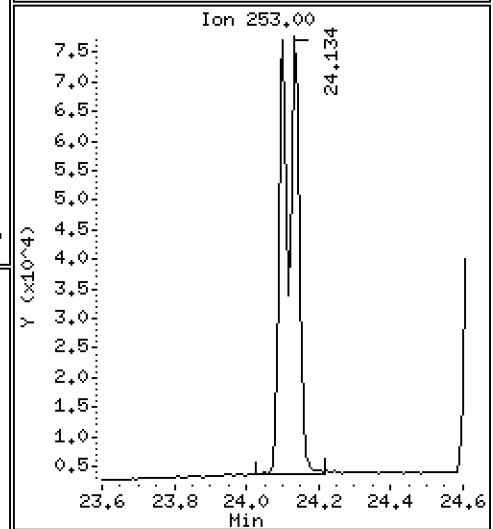
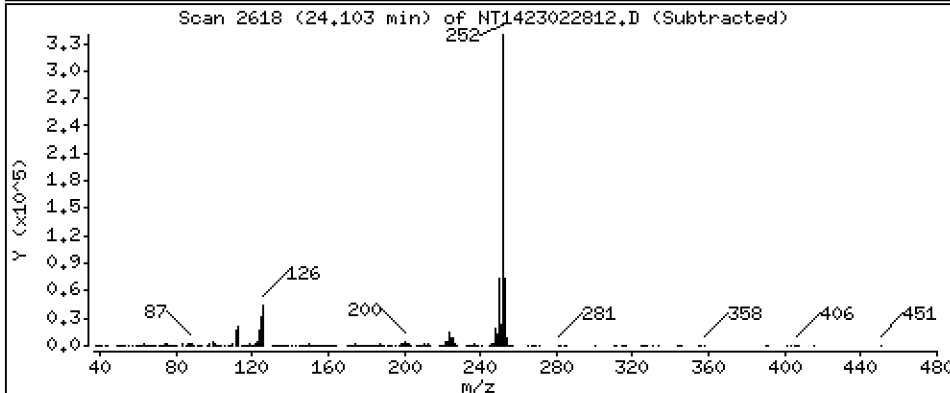
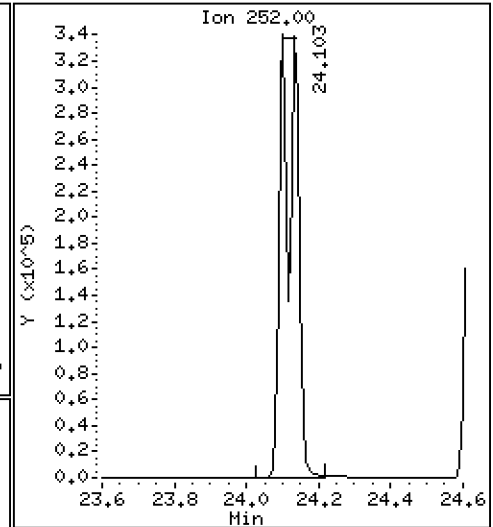
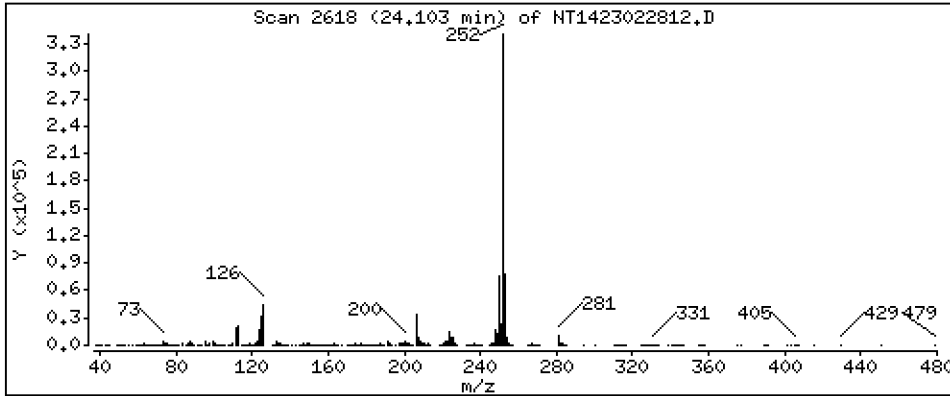
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 9,562 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

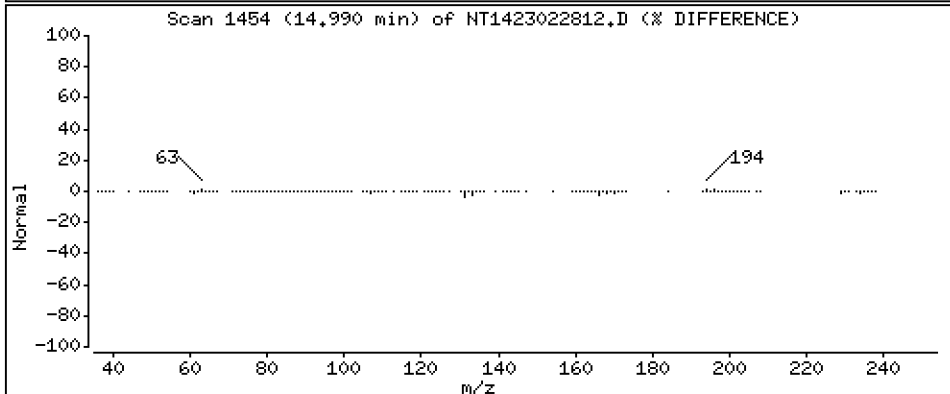
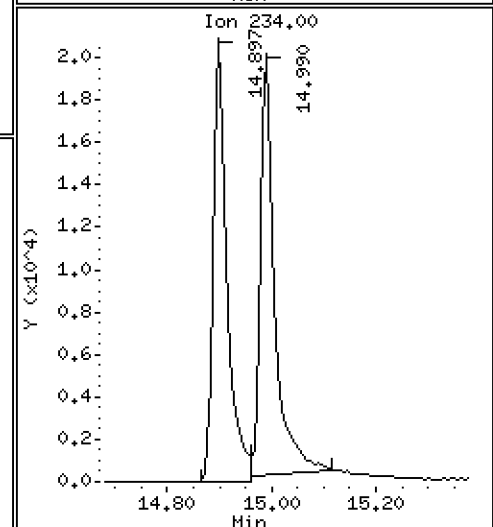
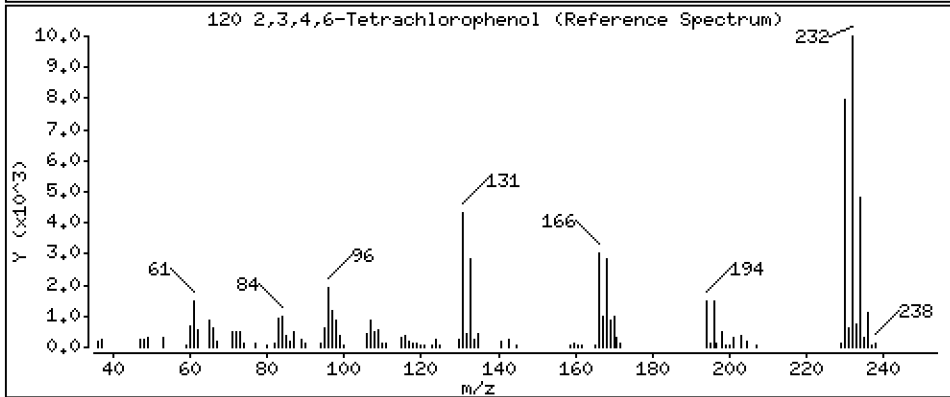
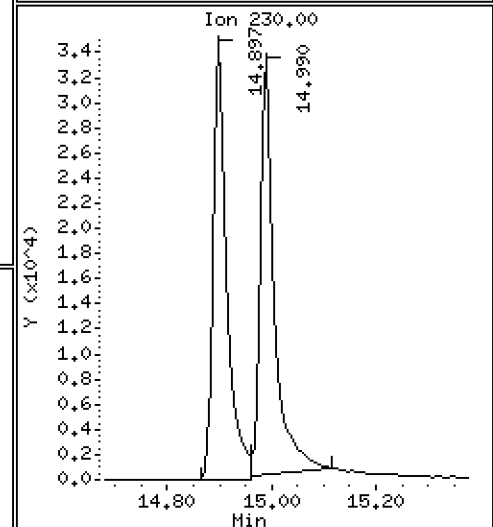
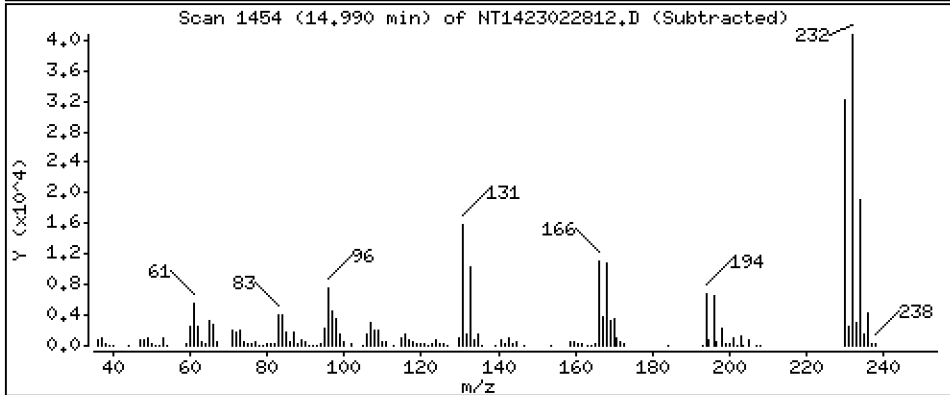
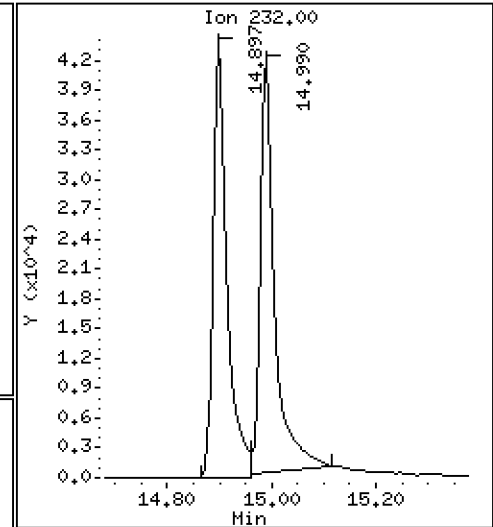
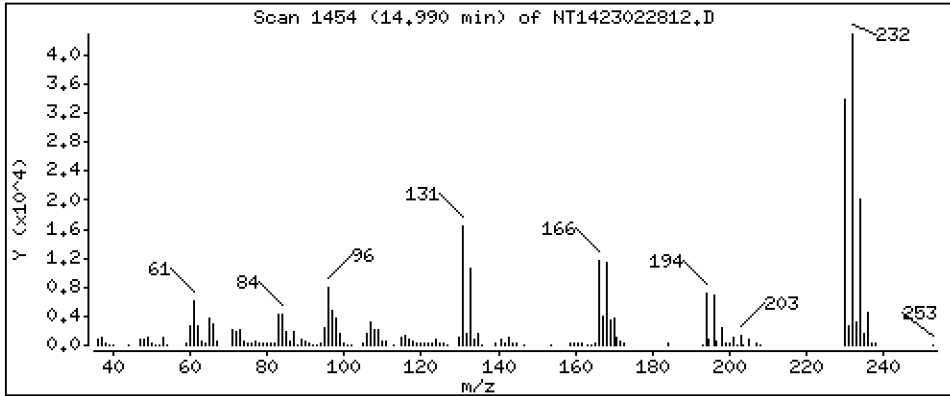
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

120 2,3,4,6-Tetrachlorophenol

Concentration: 3,467 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230228.b\NT1423022812.D
 Lab Smp Id: SLB0374-SCV1
 Inj Date : 28-FEB-2023 17:41 MS Autotune Date: 17-MAY-2011 01:22
 Operator : JGR Inst ID: nt14.i
 Smp Info : SLB0374-SCV1
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt14.i\20230228.b\ABN.m
 Meth Date : 10-Mar-2023 12:09 van Quant Type: ISTD
 Cal Date : 28-FEB-2023 15:16 Cal File: NT1423022808.D
 Als bottle: 12
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: ICAL.sub
 Target Version: 4.14
 Processing Host: VANS-201906

| Compounds | QUANT | SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|---------------------------------|-------|-----|--------|--------|---------|------------------------|----------------|-----------|
| | | | | | | | ON-COLUMN | FINAL |
| | MASS | | | | | | (ug/mL) | (ug/mL) |
| ===== | ==== | | ==== | ===== | ===== | ===== | ===== | ===== |
| \$ 1 2-Fluorophenol | 112 | | | | | Compound Not Detected. | | |
| \$ 2 Phenol-d5 | 99 | | | | | Compound Not Detected. | | |
| 3 Phenol | 94 | | 7.657 | 7.681 | (0.933) | 190853 | 3.93481 | 3.935 |
| \$ 5 2-Chlorophenol-d4 | 132 | | | | | Compound Not Detected. | | |
| 4 Bis(2-Chloroethyl)ether | 93 | | 7.789 | 7.805 | (0.949) | 172225 | 5.22436 | 5.224 |
| 6 2-Chlorophenol | 128 | | 7.889 | 7.905 | (0.961) | 165501 | 4.63235 | 4.632 |
| 7 1,3-Dichlorobenzene | 146 | | 8.145 | 8.153 | (0.992) | 188790 | 4.79491 | 4.795 |
| * 8 1,4-Dichlorobenzene-d4 | 152 | | 8.207 | 8.207 | (1.000) | 105595 | 4.00000 | |
| 9 1,4-Dichlorobenzene | 146 | | 8.238 | 8.246 | (1.004) | 186791 | 4.80018 | 4.800 |
| \$ 10 1,2-Dichlorobenzene-d4 | 152 | | | | | Compound Not Detected. | | |
| 12 1,2-Dichlorobenzene | 146 | | 8.587 | 8.595 | (1.046) | 179357 | 4.80679 | 4.807 |
| 11 Benzyl alcohol | 108 | | 8.509 | 8.688 | (1.037) | 92183 | 4.30388 | 4.304 |
| 14 2,2'-oxybis(1-Chloropropane) | 121 | | 8.804 | 8.812 | (1.073) | 55444 | 5.50978 | 5.510 |
| 13 2-Methylphenol | 108 | | 8.750 | 8.774 | (1.066) | 135033 | 4.40682 | 4.407 |
| 17 Hexachloroethane | 117 | | 9.161 | 9.162 | (1.116) | 74373 | 5.08929 | 5.089 |
| 16 N-Nitroso-di-n-propylamine | 70 | | 9.060 | 9.076 | (1.104) | 119882 | 5.13841 | 5.138 |
| 15 4-Methylphenol | 108 | | 9.029 | 9.069 | (1.100) | 147984 | 4.21848 | 4.218 |
| \$ 18 Nitrobenzene-d5 | 82 | | | | | Compound Not Detected. | | |
| 19 Nitrobenzene | 77 | | 9.332 | 9.356 | (0.875) | 180410 | 5.05930 | 5.059 |
| 20 Isophorone | 82 | | 9.782 | 9.806 | (0.917) | 349645 | 6.41026 | 6.410 |
| 21 2-Nitrophenol | 139 | | 9.961 | 9.992 | (0.934) | 76558 | 4.12597 | 4.126 |
| 22 2,4-Dimethylphenol | 107 | | 10.054 | 10.062 | (0.943) | 126462 | 3.89012 | 3.890 |
| 23 Bis(2-Chloroethoxy)methane | 93 | | 10.240 | 10.256 | (0.960) | 206654 | 5.76434 | 5.764 |
| 24 Benzoic acid | 105 | | 10.309 | 10.665 | (0.967) | 52451 | 4.07142 | 4.071 (M) |
| 25 2,4-Dichlorophenol | 162 | | 10.418 | 10.441 | (0.977) | 154075 | 4.78253 | 4.783 |
| 26 1,2,4-Trichlorobenzene | 180 | | 10.580 | 10.588 | (0.992) | 175958 | 4.78932 | 4.789 |
| * 27 Naphthalene-d8 | 136 | | 10.665 | 10.665 | (1.000) | 379346 | 4.00000 | |
| 28 Naphthalene | 128 | | 10.703 | 10.704 | (1.004) | 482268 | 4.76613 | 4.766 |
| 29 4-Chloroaniline | 127 | | 10.858 | 10.889 | (1.018) | 168576 | 3.89508 | 3.895 |
| 30 Hexachlorobutadiene | 225 | | 11.074 | 11.082 | (1.038) | 107684 | 4.80334 | 4.803 |
| 31 4-Chloro-3-methylphenol | 107 | | 11.848 | 11.872 | (1.111) | 142216 | 4.86015 | 4.860 |
| 32 2-Methylnaphthalene | 142 | | 12.088 | 12.096 | (1.133) | 346575 | 4.62518 | 4.625 |
| 33 Hexachlorocyclopentadiene | 237 | | 12.560 | 12.560 | (0.882) | 109998 | 4.53253 | 4.533 |

| Compounds | QUANT | SIG | | | | | | CONCENTRATIONS | |
|-----------------------------------|-------|-----|------------------------|--------|---------|--------|----------|----------------------|------------------|
| | | | MASS | RT | EXP RT | REL RT | RESPONSE | ON-COLUMN (ug/mL) | FINAL (ug/mL) |
| 34 2,4,6-Trichlorophenol | 196 | | 12.723 | 12.746 | (0.893) | 107803 | 4.78817 | 4.788 | |
| 35 2,4,5-Trichlorophenol | 196 | | 12.800 | 12.831 | (0.898) | 113667 | 4.66940 | 4.669 | |
| § 36 2-Fluorobiphenyl | 172 | | Compound Not Detected. | | | | | | |
| 37 2-Chloronaphthalene | 162 | | 13.071 | 13.079 | (0.917) | 353130 | 4.91059 | 4.911 | |
| 38 2-Nitroaniline | 65 | | 13.357 | 13.373 | (0.938) | 93395 | 4.97969 | 4.980 | |
| 39 Dimethylphthalate | 163 | | 13.806 | 13.814 | (0.969) | 377389 | 5.20568 | 5.206 | |
| 40 Acenaphthylene | 152 | | 13.930 | 13.938 | (0.978) | 524968 | 4.97505 | 4.975 | |
| 41 2,6-Dinitrotoluene | 165 | | 13.930 | 13.938 | (0.978) | 88793 | 5.22670 | 5.227 | |
| * 42 Acenaphthene-d10 | 164 | | 14.247 | 14.247 | (1.000) | 230482 | 4.00000 | | |
| 43 3-Nitroaniline | 138 | | 14.209 | 14.232 | (0.997) | 84775 | 4.86882 | 4.869 | |
| 44 Acenaphthene | 153 | | 14.309 | 14.309 | (1.004) | 322046 | 4.76684 | 4.767 | |
| 45 2,4-Dinitrophenol | 184 | | 14.433 | 14.425 | (1.013) | 10550 | 0.98072 | 0.9807 | |
| 46 Dibenzofuran | 168 | | 14.634 | 14.642 | (1.027) | 507169 | 4.71794 | 4.718 | |
| 47 4-Nitrophenol | 109 | | 14.572 | 14.580 | (1.023) | 34204 | 3.93377 | 3.934 | |
| 48 2,4-Dinitrotoluene | 165 | | 14.726 | 14.734 | (1.034) | 120852 | 4.94149 | 4.941 | |
| 50 Diethylphthalate | 149 | | 15.252 | 15.260 | (1.071) | 367448 | 5.42014 | 5.420 | |
| 49 Fluorene | 166 | | 15.337 | 15.345 | (1.077) | 434135 | 4.79317 | 4.793 | |
| 51 4-Chlorophenyl-phenylether | 204 | | 15.353 | 15.361 | (1.078) | 235392 | 4.88448 | 4.884 | |
| 52 4-Nitroaniline | 138 | | 15.461 | 15.492 | (1.085) | 78705 | 4.55998 | 4.560 | |
| 53 4,6-Dinitro-2-methylphenol | 198 | | 15.554 | 15.608 | (0.902) | 49314 | 3.23357 | 3.234 | |
| 54 N-Nitrosodiphenylamine | 169 | | 15.607 | 15.616 | (0.905) | 286663 | 4.97950 | 4.980 | |
| § 55 2,4,6-Tribromophenol | 330 | | Compound Not Detected. | | | | | | |
| 56 4-Bromophenyl-phenylether | 248 | | 16.348 | 16.348 | (0.948) | 130387 | 5.15173 | 5.152 | |
| 57 Hexachlorobenzene | 284 | | 16.634 | 16.634 | (0.965) | 133283 | 4.78977 | 4.790 | |
| 58 Pentachlorophenol | 266 | | 17.013 | 17.021 | (0.987) | 46829 | 3.52378 | 3.524 (M) | |
| * 59 Phenanthrene-d10 | 188 | | 17.245 | 17.245 | (1.000) | 458109 | 4.00000 | | |
| 60 Phenanthrene | 178 | | 17.291 | 17.300 | (1.003) | 562433 | 4.61514 | 4.615 | |
| 61 Anthracene | 178 | | 17.384 | 17.392 | (1.008) | 486699 | 4.22447 | 4.224 | |
| 62 Carbazole | 167 | | 17.732 | 17.748 | (1.028) | 482242 | 4.77590 | 4.776 | |
| 63 Di-n-butylphthalate | 149 | | 18.599 | 18.599 | (1.079) | 617439 | 4.81920 | 4.819 | |
| 64 Fluoranthene | 202 | | 19.713 | 19.721 | (0.881) | 680212 | 5.10377 | 5.104 | |
| 65 Pyrene | 202 | | 20.139 | 20.147 | (0.900) | 696600 | 4.95743 | 4.957 | |
| § 66 Terphenyl-d14 | 244 | | Compound Not Detected. | | | | | | |
| 67 Butylbenzylphthalate | 149 | | 21.439 | 21.447 | (0.958) | 242201 | 4.96478 | 4.965 | |
| 68 Benzo(a)anthracene | 228 | | 22.338 | 22.338 | (0.999) | 578542 | 4.91658 | 4.917 | |
| * 69 Chrysene-d12 | 240 | | 22.368 | 22.361 | (1.000) | 351284 | 4.00000 | | |
| 70 3,3'-Dichlorobenzidine | 252 | | 22.322 | 22.330 | (0.998) | 345809 | 10.2906 | 10.29 | |
| 71 Chrysene | 228 | | 22.407 | 22.415 | (1.002) | 515316 | 4.55608 | 4.556 | |
| 72 bis(2-Ethylhexyl)phthalate | 149 | | 22.500 | 22.500 | (0.958) | 338426 | 5.27680 | 5.277 | |
| * 134 Di-n-octylphthalate-d4 | 153 | | 23.476 | 23.476 | (1.000) | 422614 | 4.00000 | | |
| 73 Di-n-octylphthalate | 149 | | 23.483 | 23.484 | (1.000) | 576704 | 5.18281 | 5.183 | |
| 74 Benzo(b)fluoranthene | 252 | | 24.103 | 24.103 | (0.975) | 541825 | 4.87157 | 4.872 | |
| 75 Benzo(k)fluoranthene | 252 | | 24.134 | 24.134 | (0.977) | 559543 | 4.66326 | 4.663 | |
| 76 Benzo(a)pyrene | 252 | | 24.614 | 24.622 | (0.996) | 466252 | 4.88626 | 4.886 | |
| * 77 Perylene-d12 | 264 | | 24.714 | 24.715 | (1.000) | 336637 | 4.00000 | | |
| 78 Indeno(1,2,3-cd)pyrene | 276 | | 26.785 | 26.793 | (1.084) | 587567 | 4.89167 | 4.892 | |
| 79 Dibenzo(a,h)anthracene | 278 | | 26.800 | 26.800 | (1.084) | 500585 | 4.90681 | 4.907 | |
| 80 Benzo(g,h,i)perylene | 276 | | 27.383 | 27.391 | (1.108) | 508988 | 4.85849 | 4.858 | |
| 90 N-Nitrosodimethylamine | 74 | | 3.988 | 4.104 | (0.486) | 94230 | 4.50713 | 4.507 | |
| 91 Aniline | 93 | | Compound Not Detected. | | | | | | |
| 93 Benzidine | 184 | | 19.999 | 20.015 | (0.894) | 253209 | 4.50911 | 4.509 | |
| 103 Pyridine | 79 | | 4.004 | 4.027 | (0.488) | 137878 | 2.19631 | 2.196 | |
| 105 1-methylnaphthalene | 142 | | 12.305 | 12.313 | (1.154) | 335999 | 4.87061 | 4.871 | |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77 | | 15.677 | 15.677 | (1.100) | 390699 | 5.02002 | 5.020 | |

| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|-------------------------------|-----------|--------|--------|---------|----------|----------------------|------------------|
| | | | | | | ON-COLUMN (ug/mL) | FINAL (ug/mL) |
| 187 Total Benzofluoranthenes | 252 | 24.103 | 24.103 | (0.975) | 1040320 | 9.56184 | 9.562 |
| 120 2,3,4,6-Tetrachlorophenol | 232 | 14.989 | 15.029 | (1.052) | 91471 | 3.46740 | 3.467 |

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 28-FEB-2023
 Lab File ID: NT1423022812.D Calibration Time: 12:51
 Lab Smp Id: SLB0374-SCV1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: JGR
 Method File: \\target\share\chem3\nt14.i\20230228.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|--------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 114351 | 57176 | 228702 | 105595 | -7.66 |
| 27 Naphthalene-d8 | 408655 | 204328 | 817310 | 379346 | -7.17 |
| 42 Acenaphthene-d10 | 254000 | 127000 | 508000 | 230482 | -9.26 |
| 59 Phenanthrene-d10 | 490626 | 245313 | 981252 | 458109 | -6.63 |
| 69 Chrysene-d12 | 390400 | 195200 | 780800 | 351284 | -10.02 |
| 134 Di-n-octylphthala | 500829 | 250415 | 1001658 | 422614 | -15.62 |
| 77 Perylene-d12 | 375675 | 187838 | 751350 | 336637 | -10.39 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 8.21 | 7.71 | 8.71 | 8.21 | -0.09 |
| 27 Naphthalene-d8 | 10.67 | 10.17 | 11.17 | 10.67 | 0.00 |
| 42 Acenaphthene-d10 | 14.25 | 13.75 | 14.75 | 14.25 | 0.00 |
| 59 Phenanthrene-d10 | 17.25 | 16.75 | 17.75 | 17.25 | -0.04 |
| 69 Chrysene-d12 | 22.38 | 21.88 | 22.88 | 22.37 | -0.03 |
| 134 Di-n-octylphthala | 23.48 | 22.98 | 23.98 | 23.48 | -0.03 |
| 77 Perylene-d12 | 24.72 | 24.22 | 25.22 | 24.71 | -0.03 |

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

REVIEW SUMMARY FOR FILE - NT1423022812.D

Lab ID: SLB0374-SCV1
nt14.i, ABN.m, 28-FEB-2023 17:41

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

** FIRST SURROGATE NOT FOUND. ICAL Check not performed **

RRT CHECK

| RRT | CCV RRT | DELTA | COMPOUND |
|-------|---------|---------|------------------------|
| 1.037 | 1.059 | -0.0218 | Benzyl alcohol |
| 0.967 | 0.000 | 0.9667 | Benzoic acid |
| 1.013 | 0.000 | 1.0130 | 2,4-Dinitrophenol |
| 1.023 | 0.000 | 1.0228 | 4-Nitrophenol |
| 0.987 | 0.000 | 0.9865 | Pentachlorophenol |
| 0.486 | 0.500 | -0.0141 | N-Nitrosodimethylamine |
| 0.488 | 0.000 | 0.4879 | Pyridine |

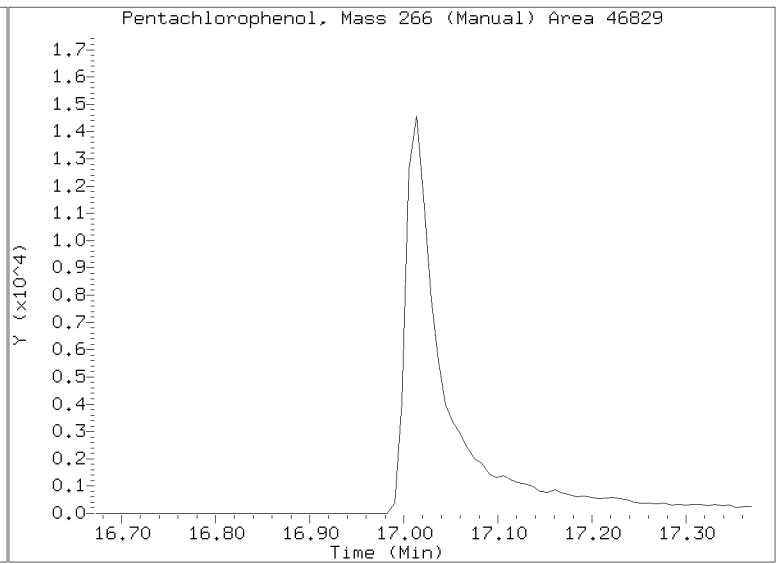
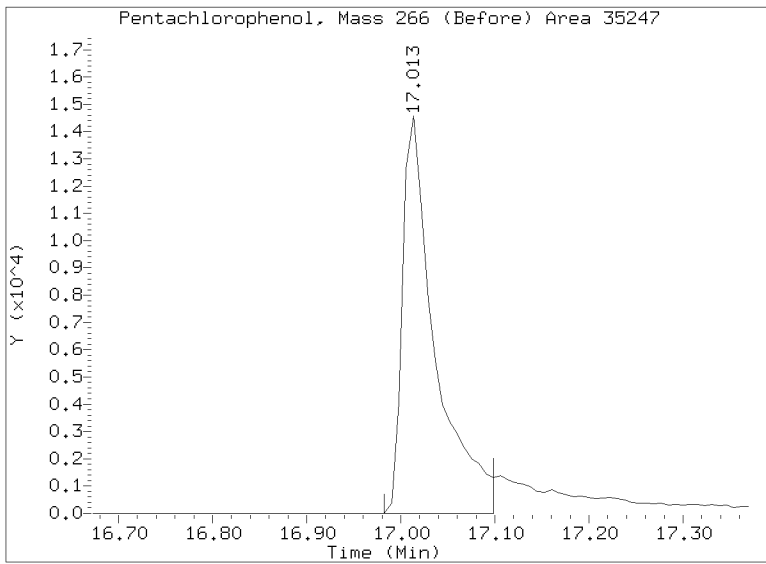
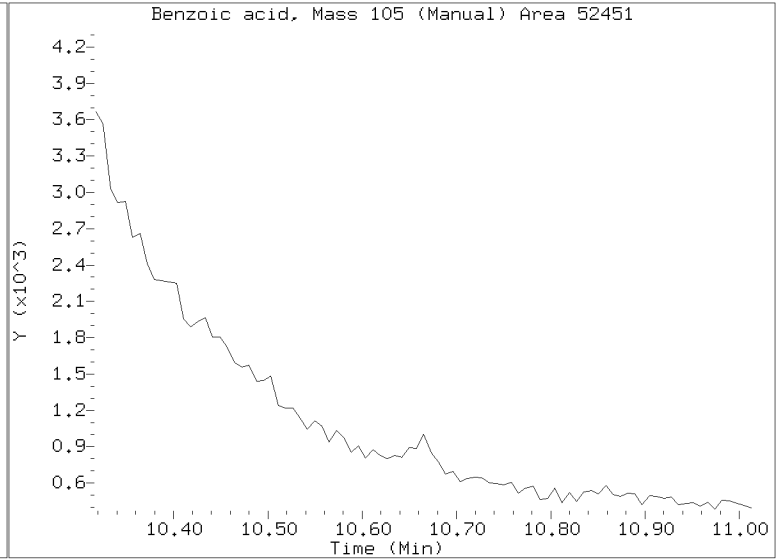
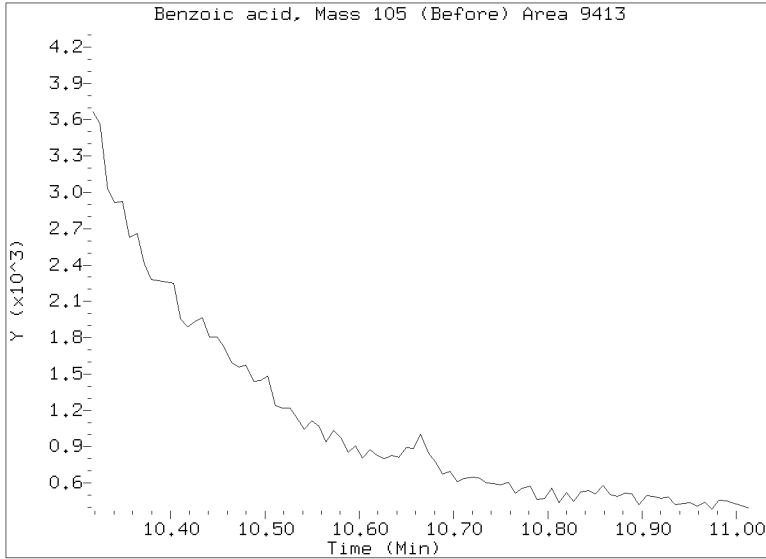
RRT check based on Ccal File: NT1423022808.D

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

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230228.b/NT1423022812.D
Injection Date: 28-FEB-2023 17:41
Lab ID:SLB0374-SCV1 Client ID:
Report Date: 03/10/2023 13:21





**SECOND-SOURCE
CALIBRATION VERIFICATION**

EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Calibration: GC00046

Laboratory ID: SLC0228-SCV1

Sequence: SLC0228

Standard ID: L002833

| ANALYTE | EXPECTED (ug/mL) | FOUND (ug/mL) | % DRIFT | QC LIMIT |
|----------------------------|---------------------|------------------|---------|----------|
| Phenol | 5.0000 | 4.4 | -11.8 | 20.00 |
| 4-Methylphenol | 5.0000 | 4.4 | -12.7 | 20.00 |
| Naphthalene | 5.0000 | 4.7 | -5.7 | 20.00 |
| 2-Methylnaphthalene | 5.0000 | 4.6 | -8.1 | 20.00 |
| Acenaphthylene | 5.0000 | 4.8 | -3.9 | 20.00 |
| Dimethylphthalate | 5.0000 | 4.9 | -1.3 | 20.00 |
| Acenaphthene | 5.0000 | 4.8 | -4.5 | 20.00 |
| Dibenzofuran | 5.0000 | 4.6 | -7.0 | 20.00 |
| Fluorene | 5.0000 | 4.7 | -5.8 | 20.00 |
| Phenanthrene | 5.0000 | 4.6 | -8.0 | 20.00 |
| Anthracene | 5.0000 | 4.2 | -16.7 | 20.00 |
| Fluoranthene | 5.0000 | 4.5 | -10.6 | 20.00 |
| Pyrene | 5.0000 | 4.3 | -13.2 | 20.00 |
| Butylbenzylphthalate | 5.0000 | 4.8 | -3.3 | 20.00 |
| Benzo(a)anthracene | 5.0000 | 4.6 | -7.1 | 20.00 |
| Chrysene | 5.0000 | 4.5 | -9.8 | 20.00 |
| bis(2-Ethylhexyl)phthalate | 5.0000 | 4.7 | -6.4 | 20.00 |
| Benzofluoranthenes, Total | 10.000 | 9.5 | -5.2 | 20.00 |
| Benzo(a)pyrene | 5.0000 | 4.9 | -2.5 | 20.00 |
| Indeno(1,2,3-cd)pyrene | 5.0000 | 4.6 | -8.5 | 20.00 |
| Dibenzo(a,h)anthracene | 5.0000 | 4.5 | -9.1 | 20.00 |
| Benzo(g,h,i)perylene | 5.0000 | 4.6 | -8.2 | 20.00 |

* Values outside of QC limits

Data File: \\target\share\chem3\nt10.1\20230315.6\NT10031511.D

Date: 16-MAR-2023 02:16

Client ID:

Sample Info: SLC0228-SCV1

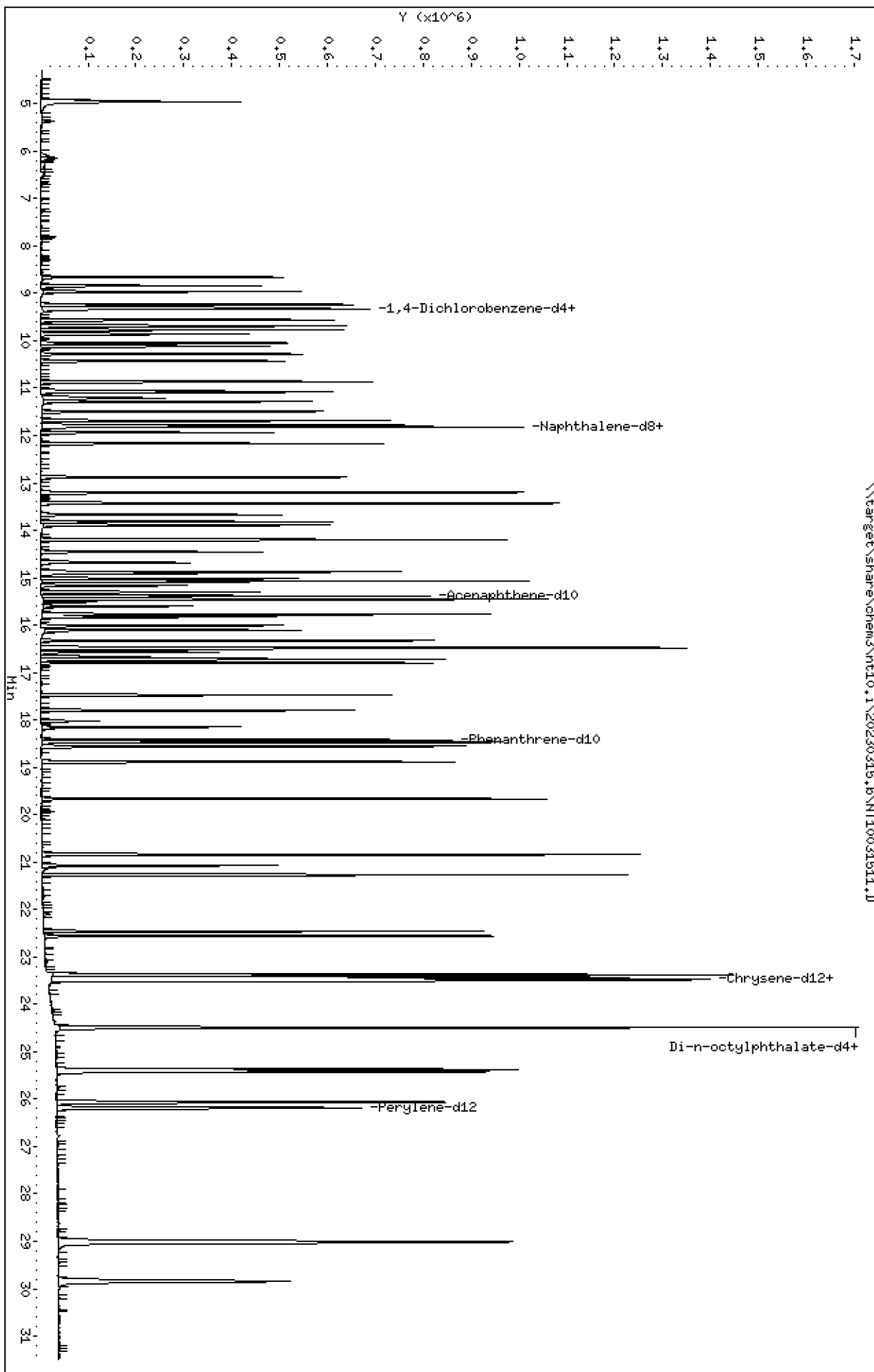
Column phase: ZB-5msi

Instrument: nt10.1

Operator: VTS

Column diameter: 0.25

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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

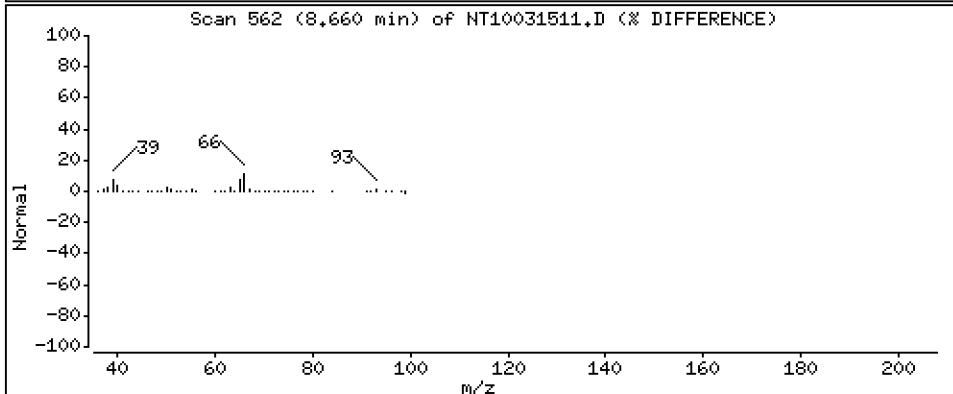
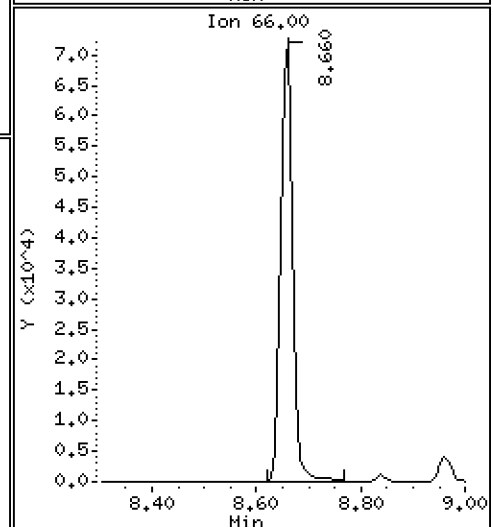
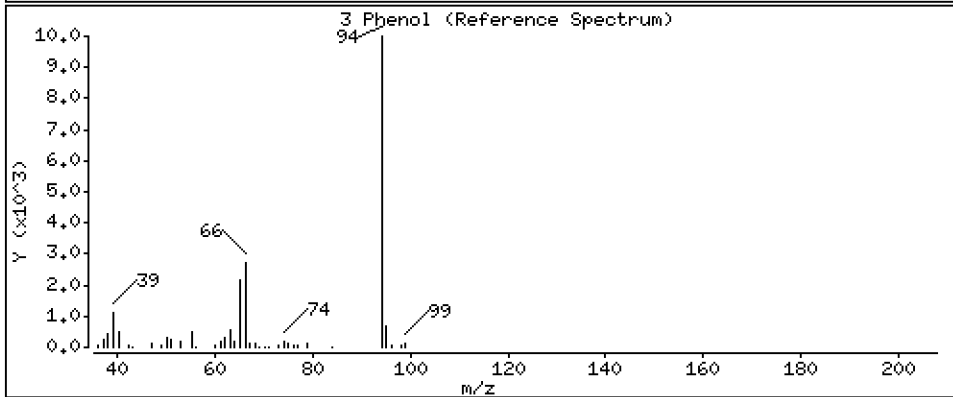
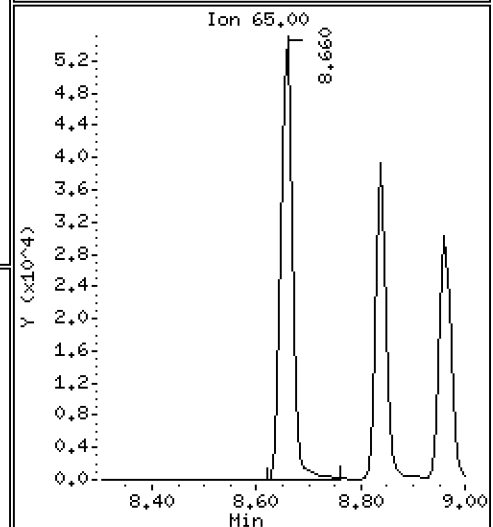
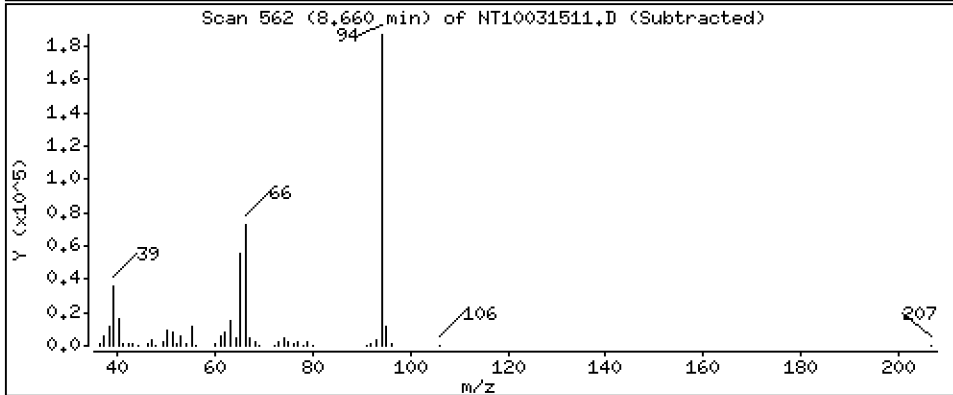
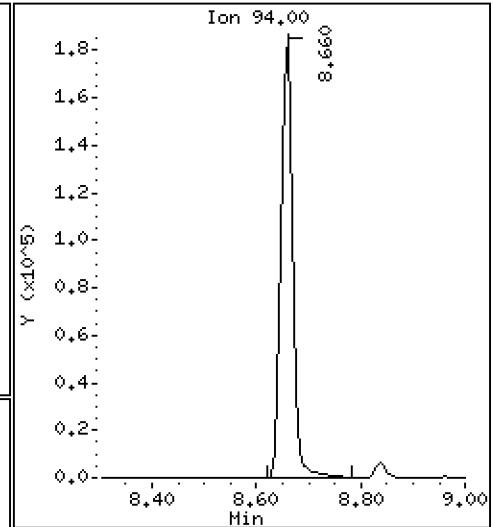
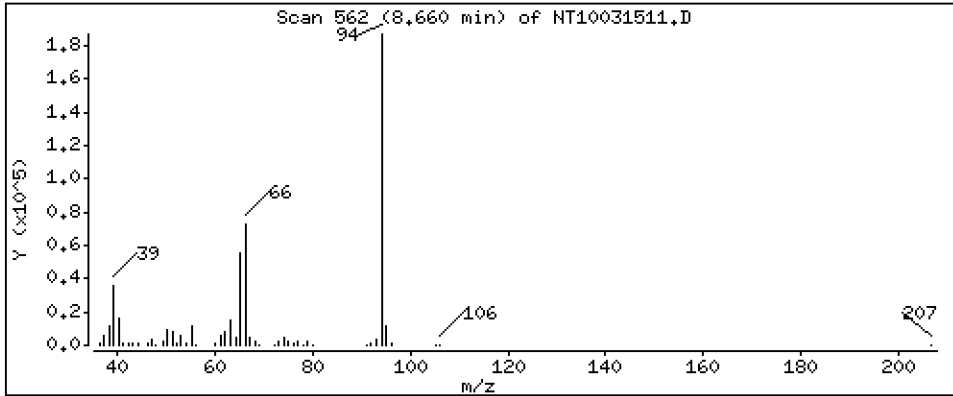
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 4,412 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

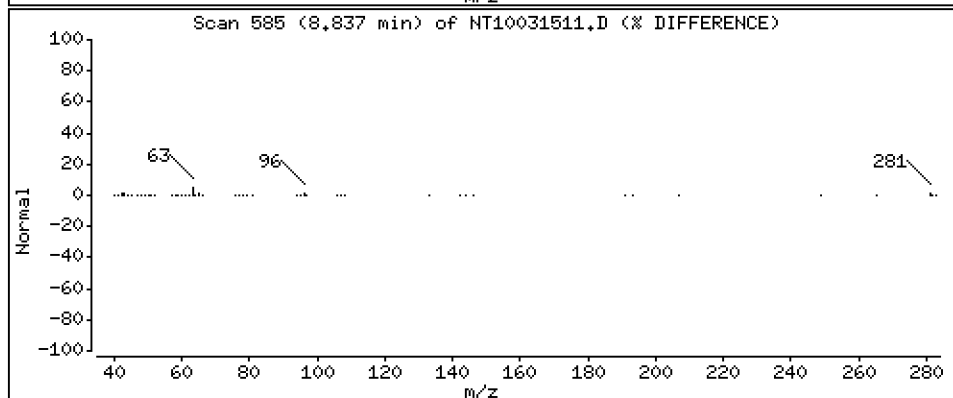
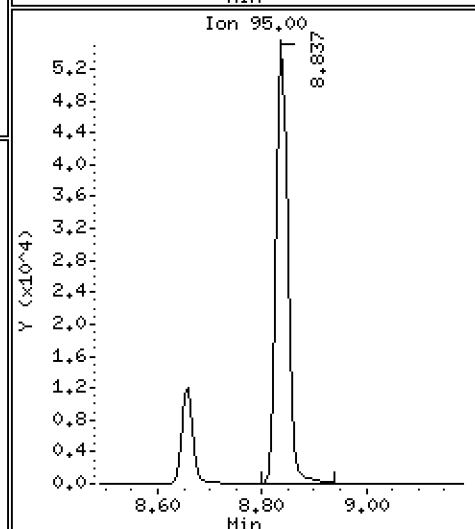
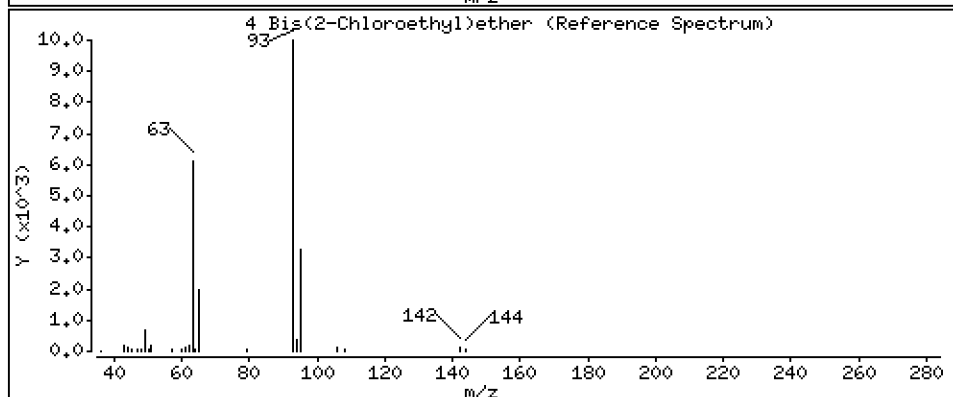
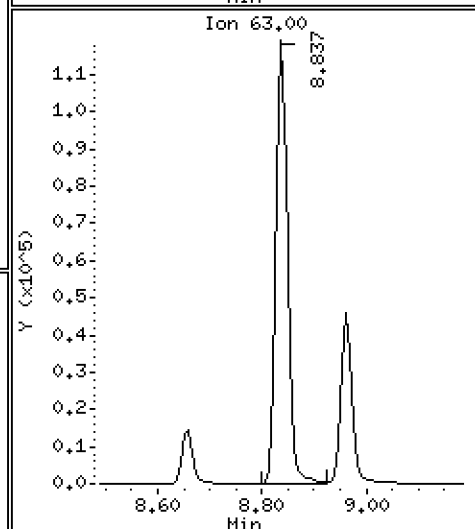
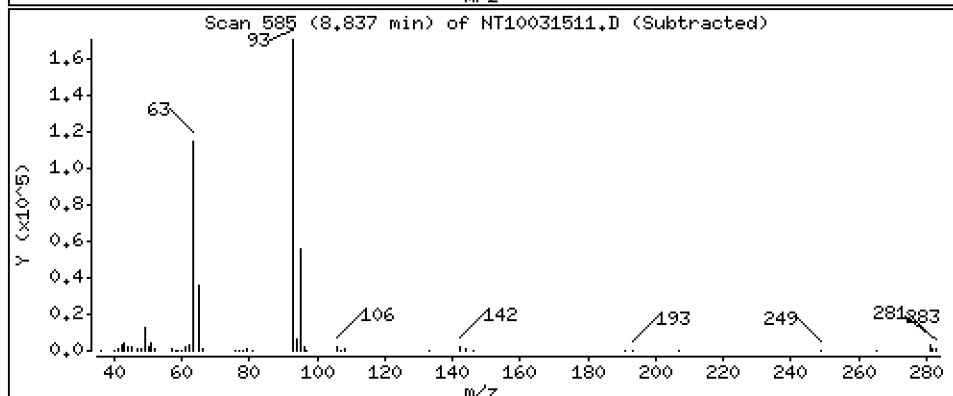
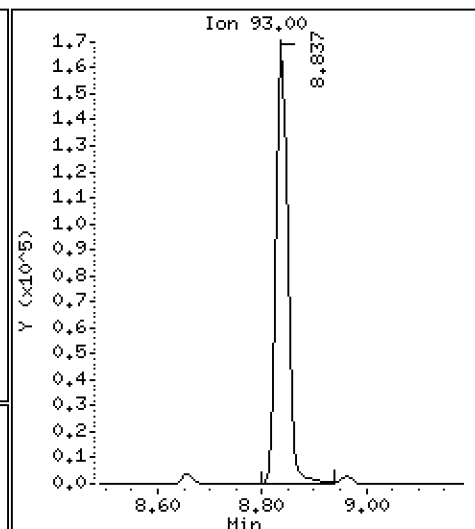
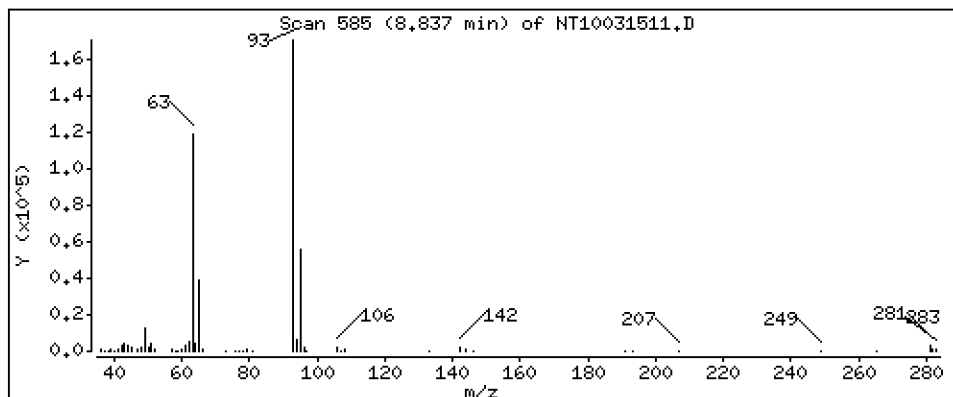
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

4 Bis(2-Chloroethyl)ether

Concentration: 5,258 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

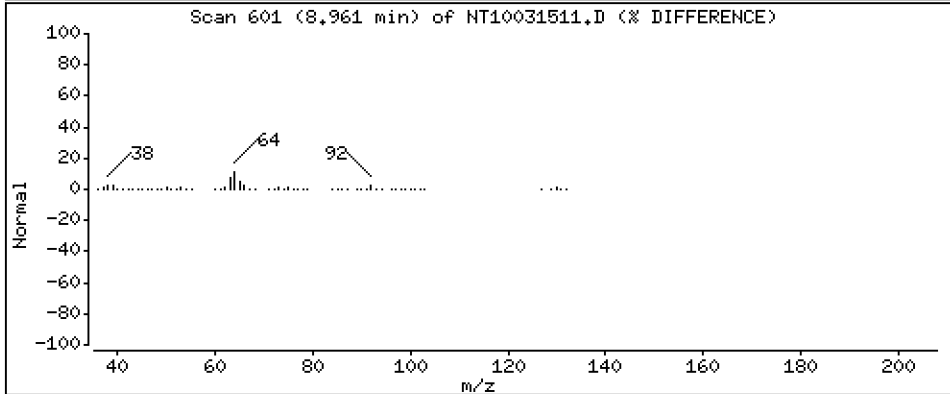
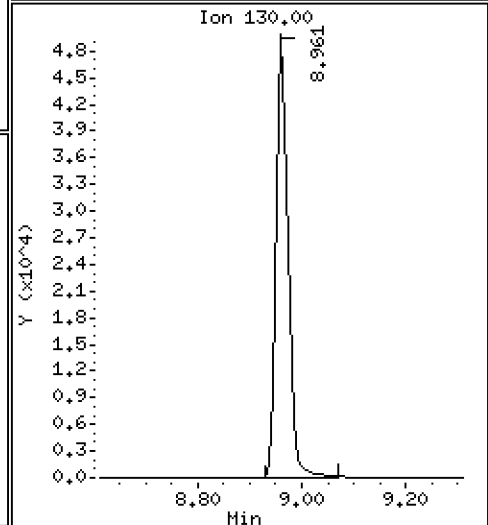
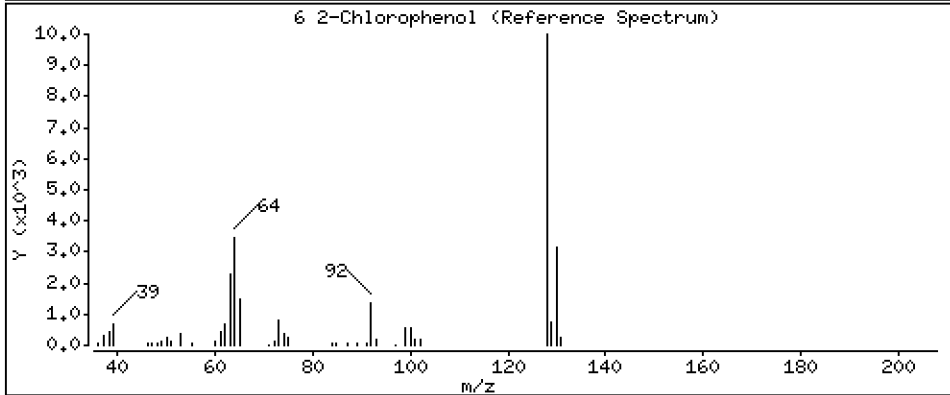
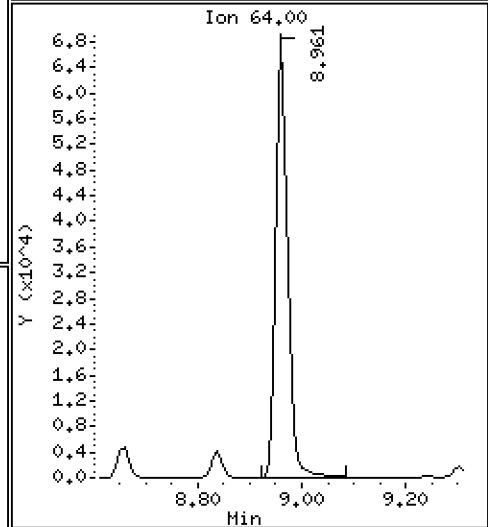
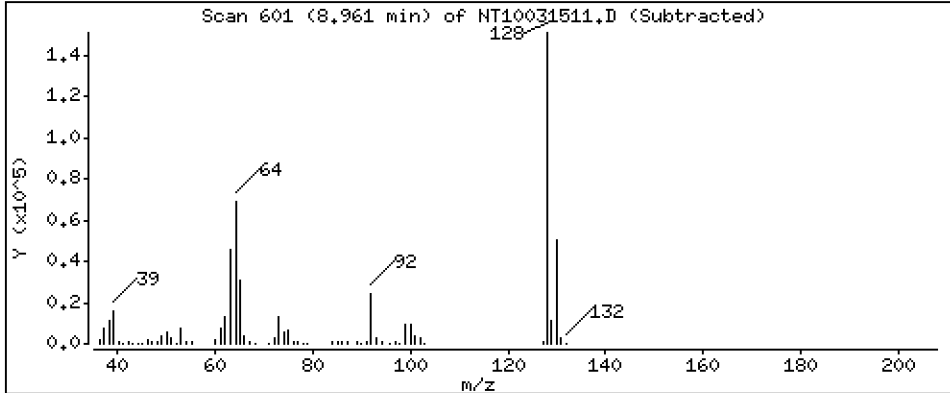
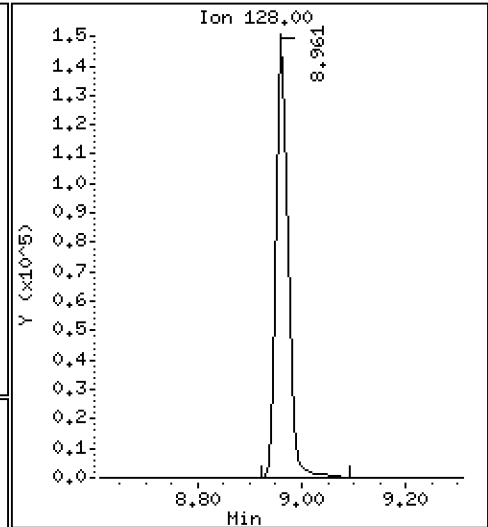
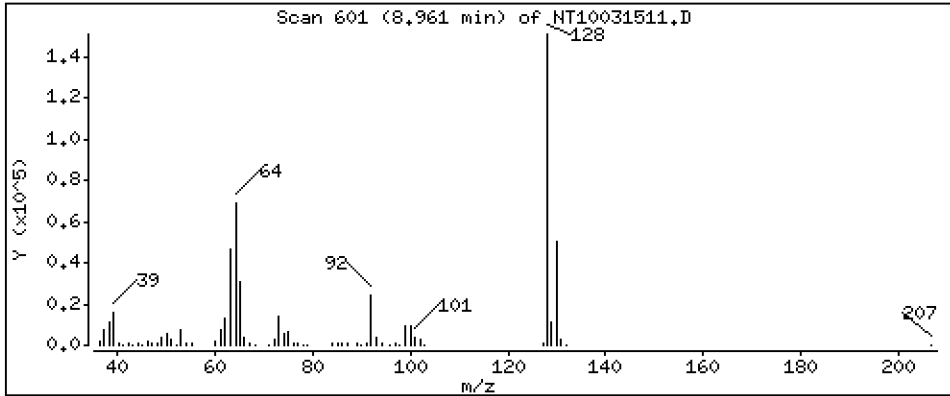
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 4,277 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

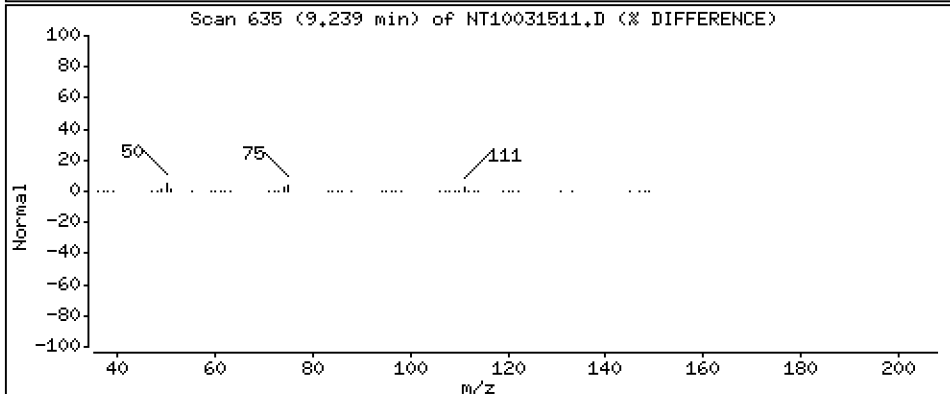
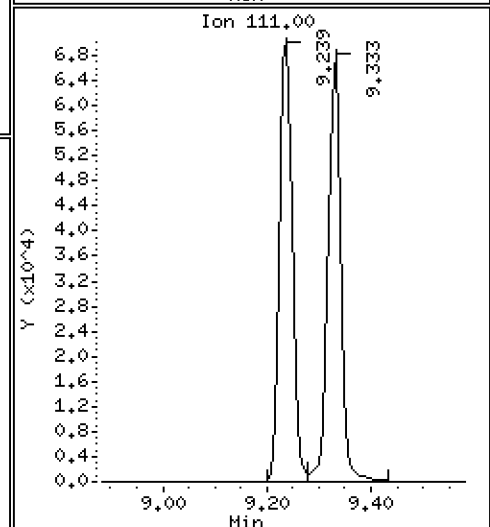
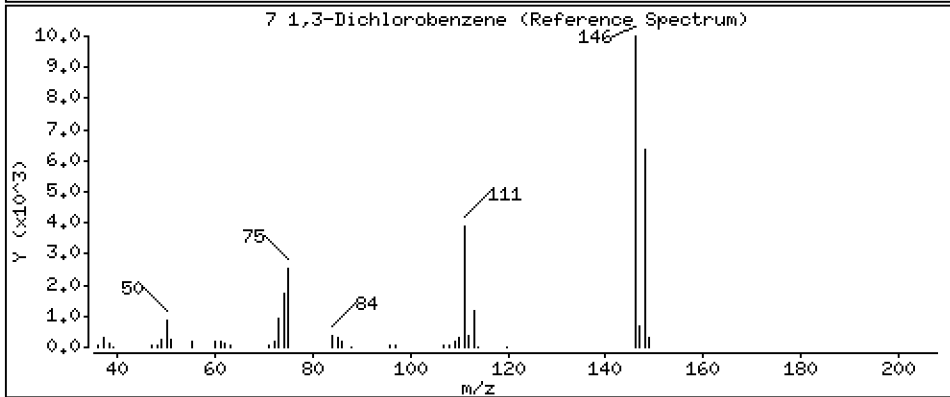
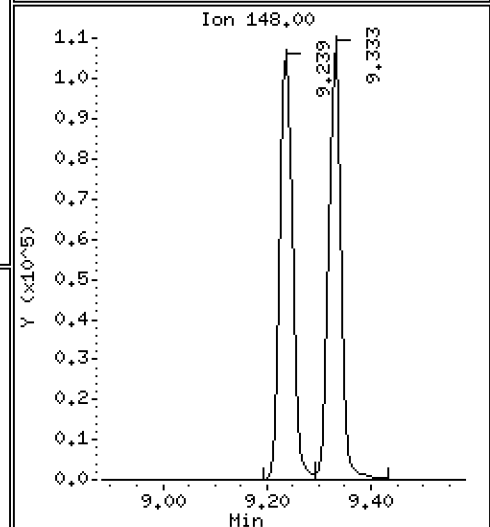
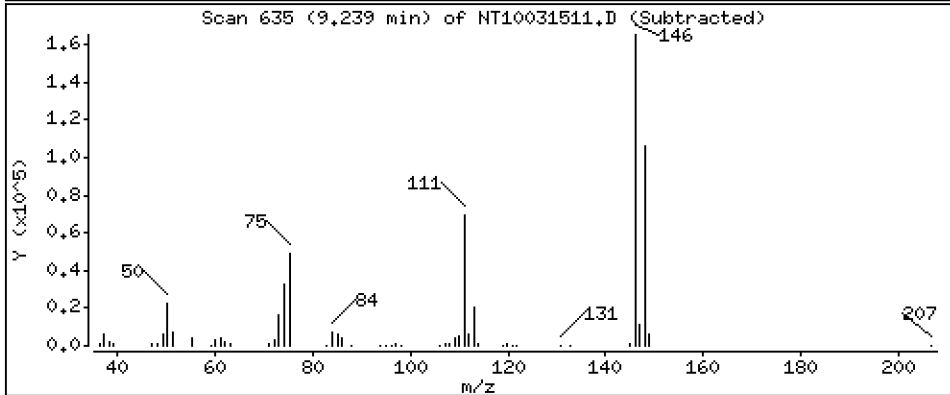
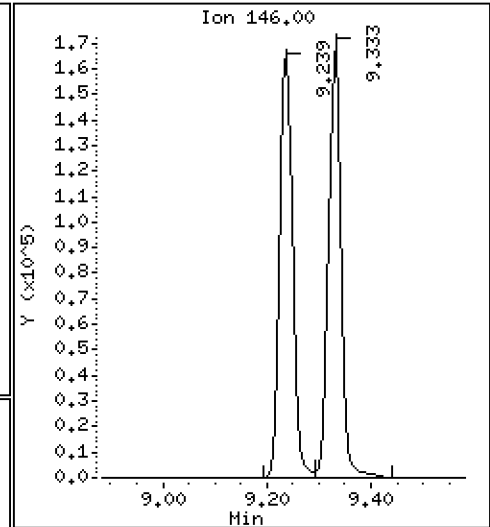
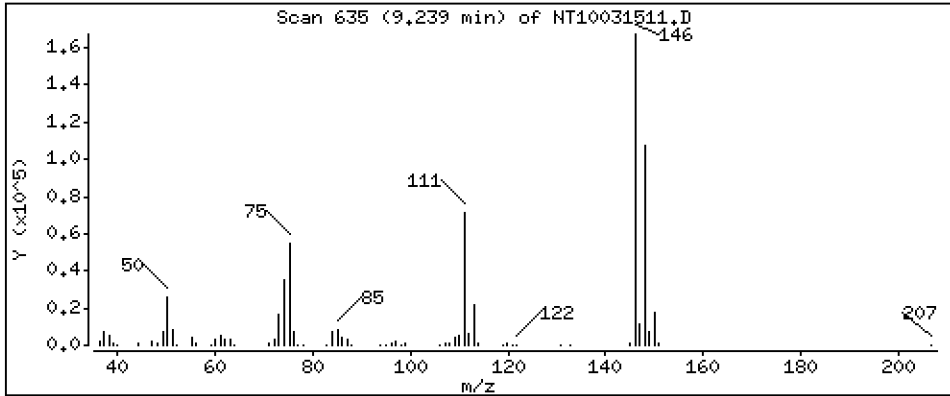
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

7 1,3-Dichlorobenzene

Concentration: 4.772 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

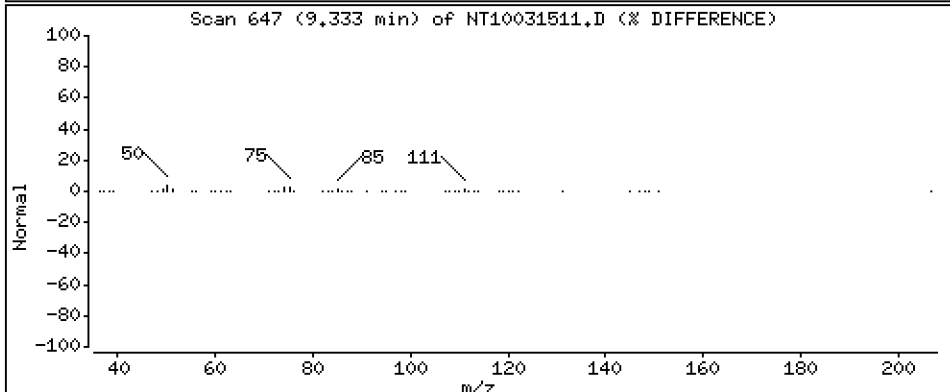
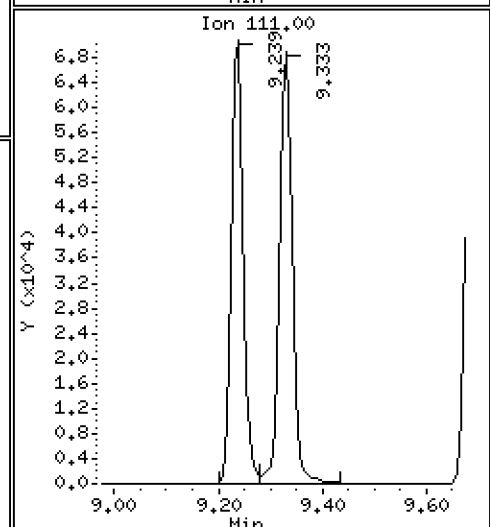
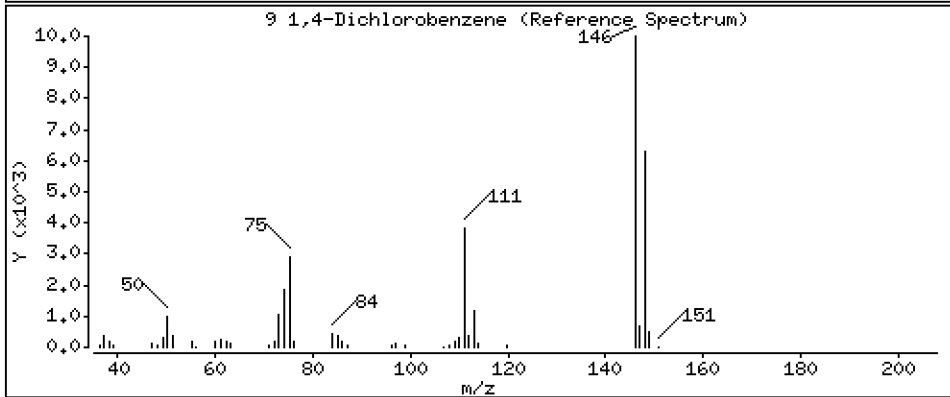
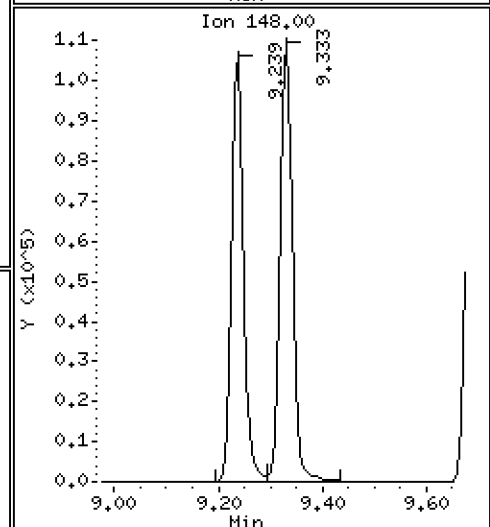
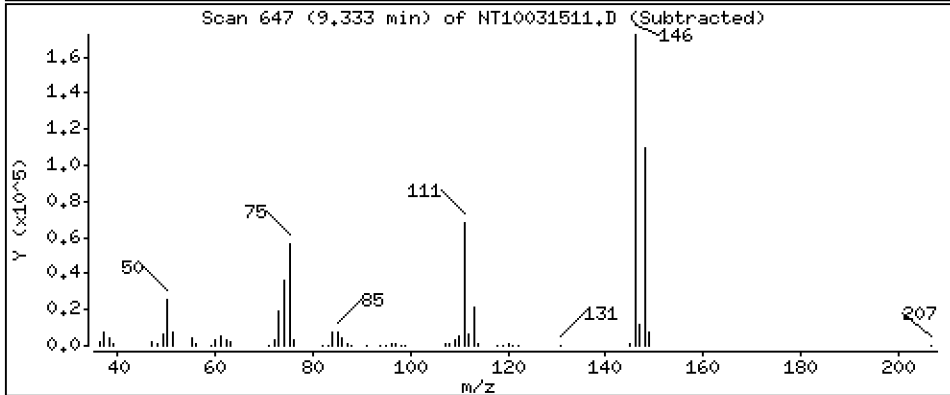
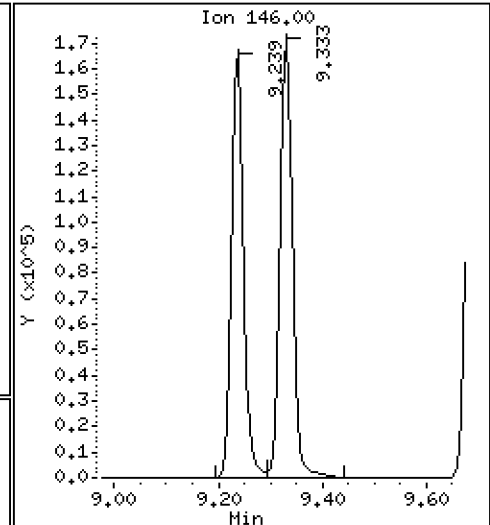
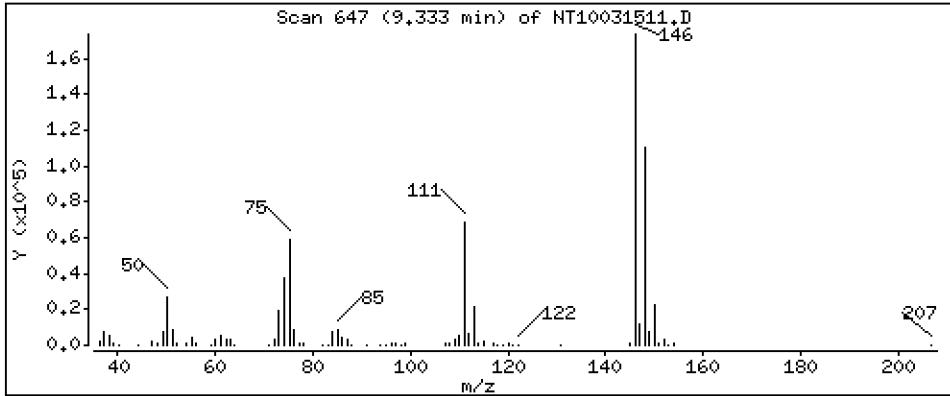
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

9 1,4-Dichlorobenzene

Concentration: 4.913 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

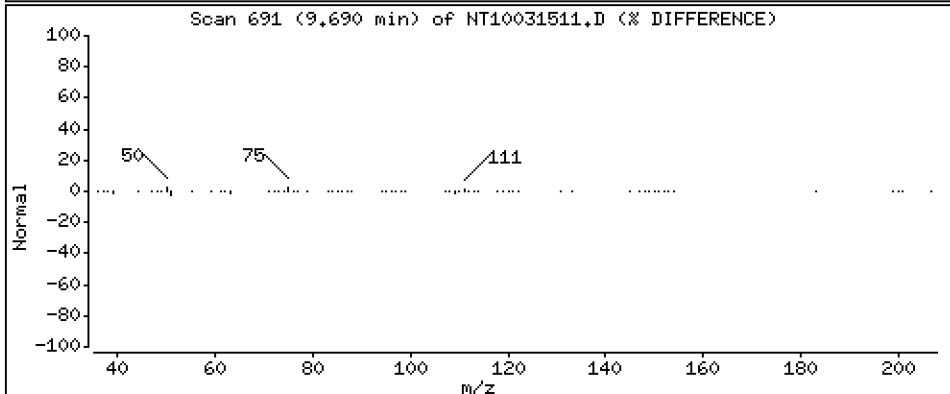
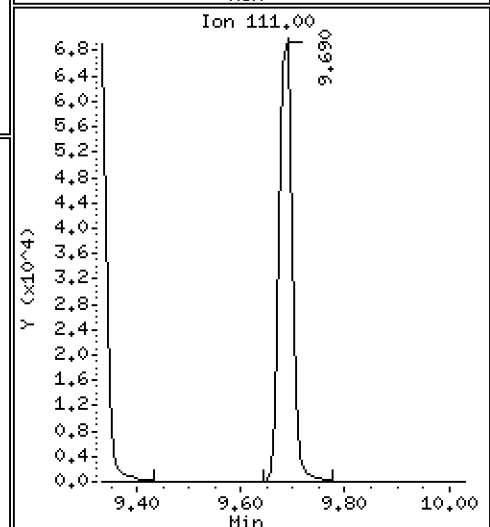
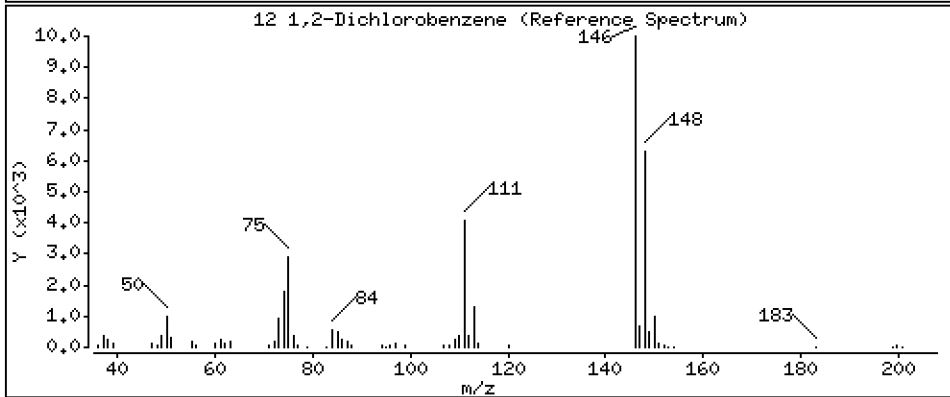
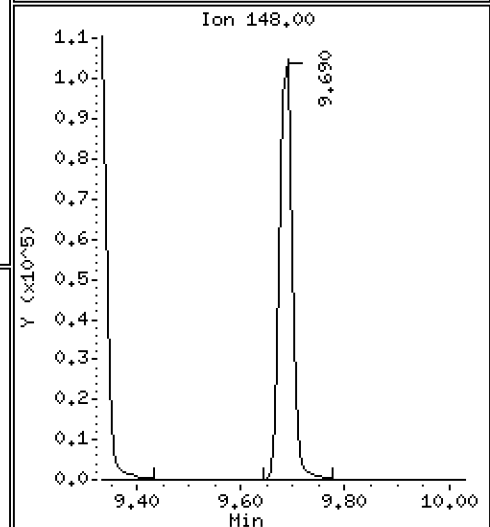
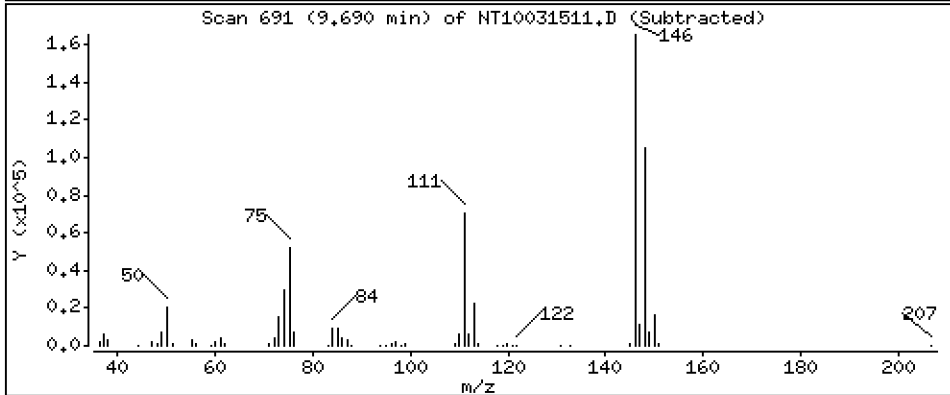
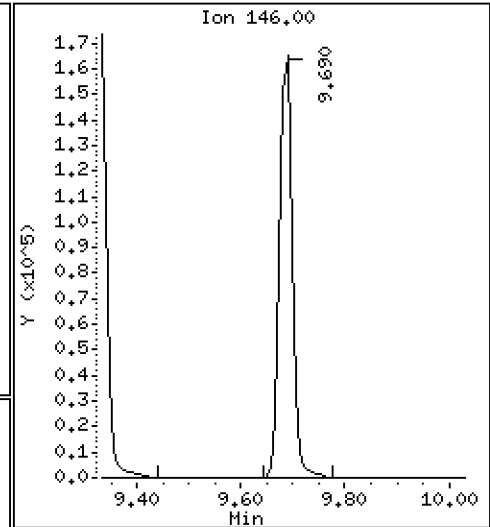
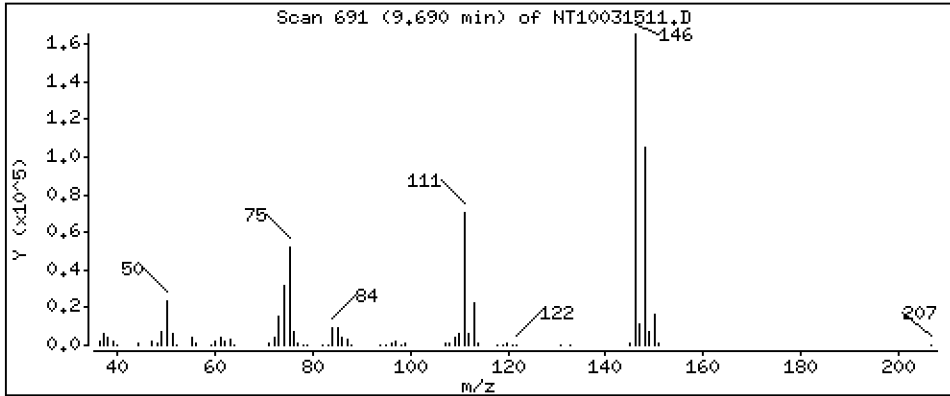
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

12 1,2-Dichlorobenzene

Concentration: 4,882 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

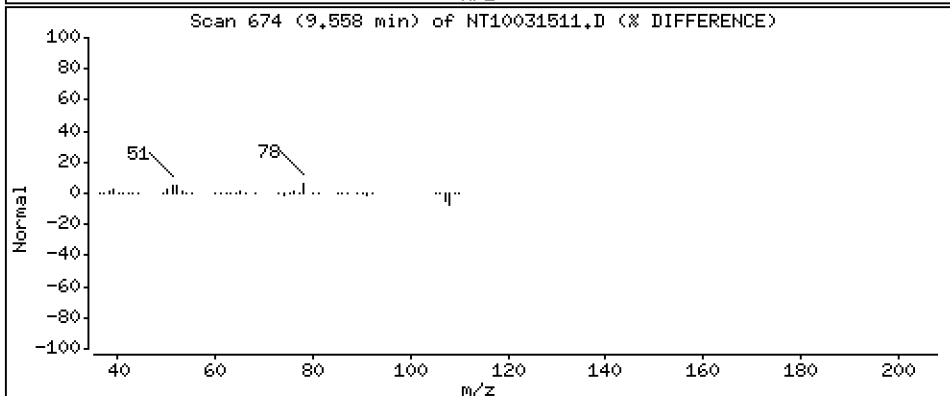
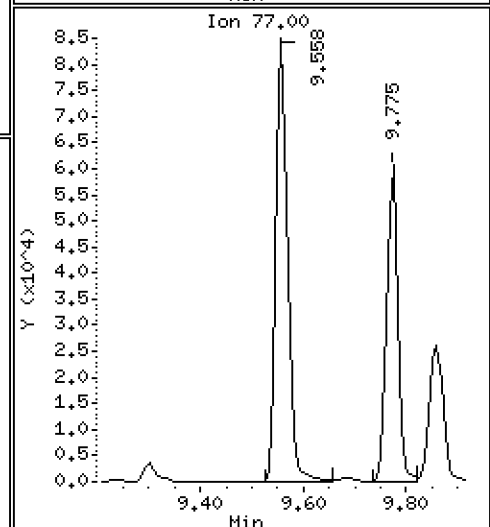
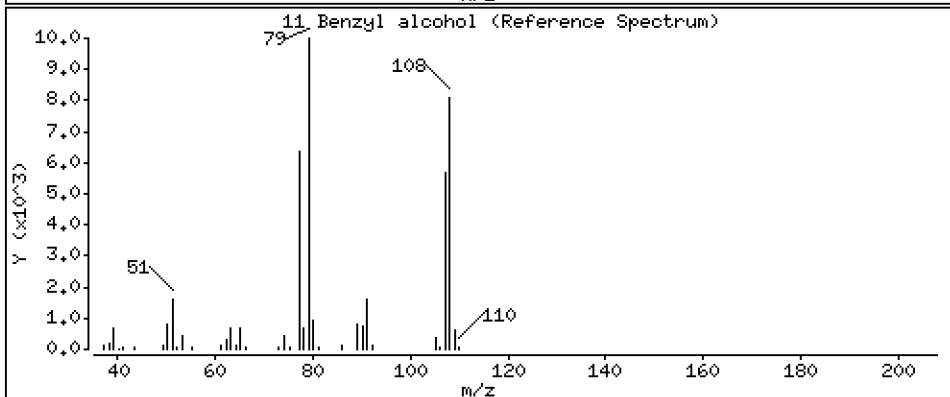
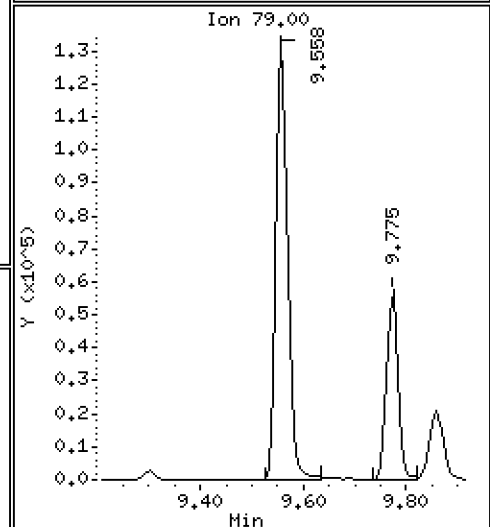
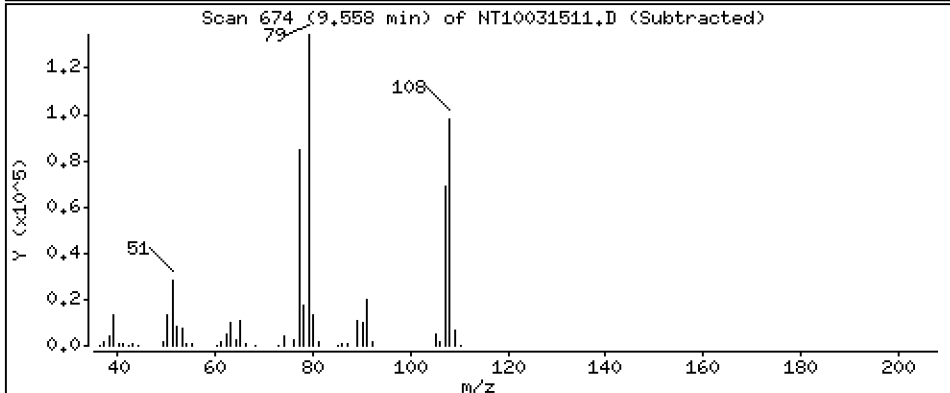
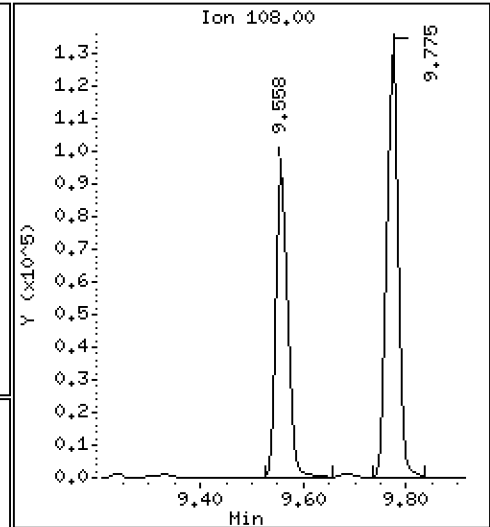
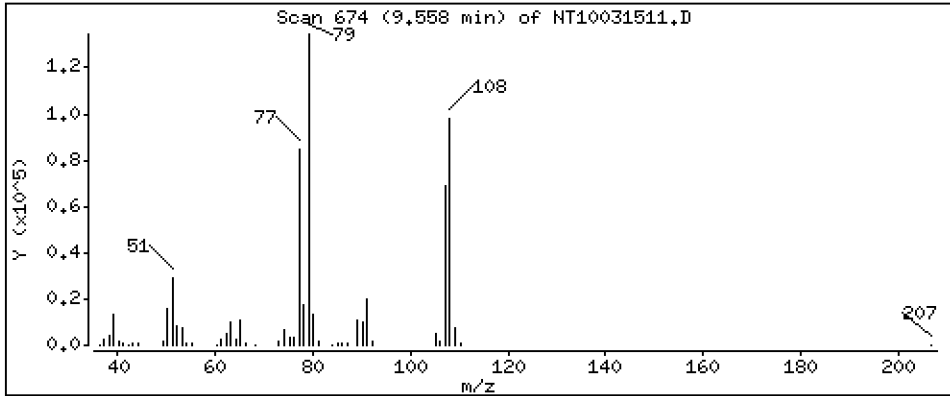
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 4.927 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

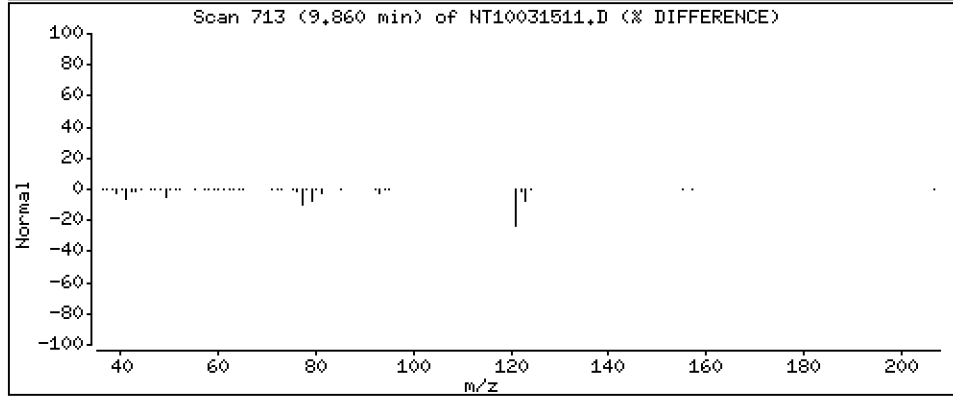
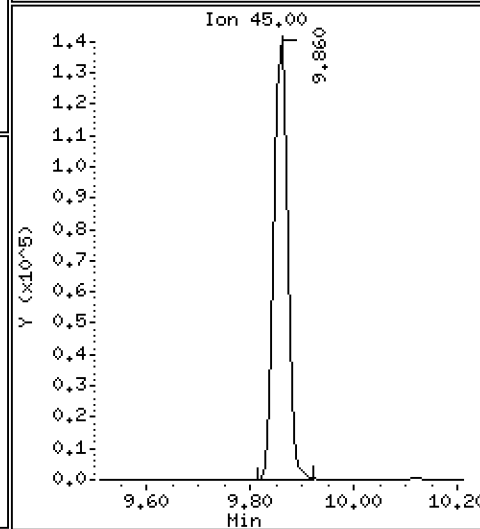
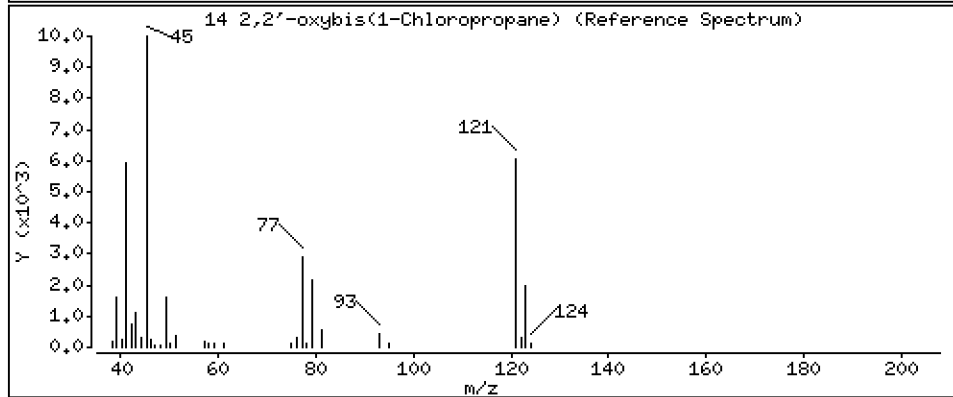
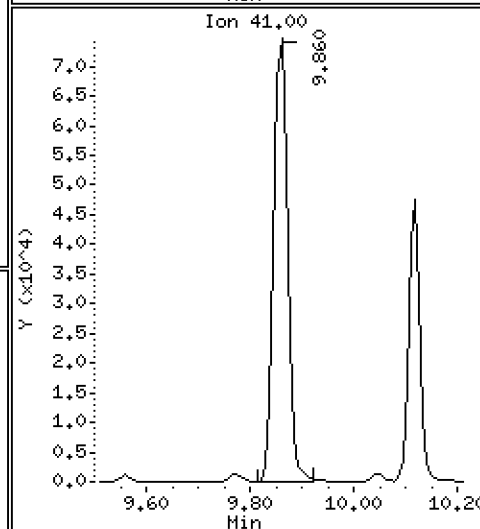
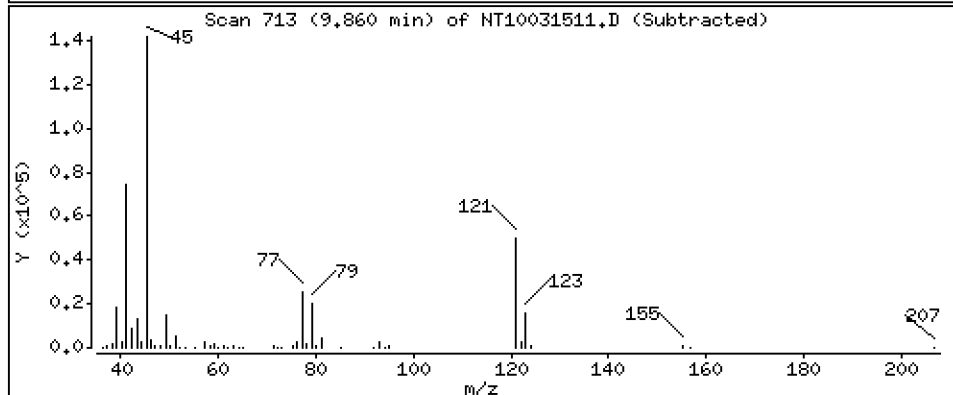
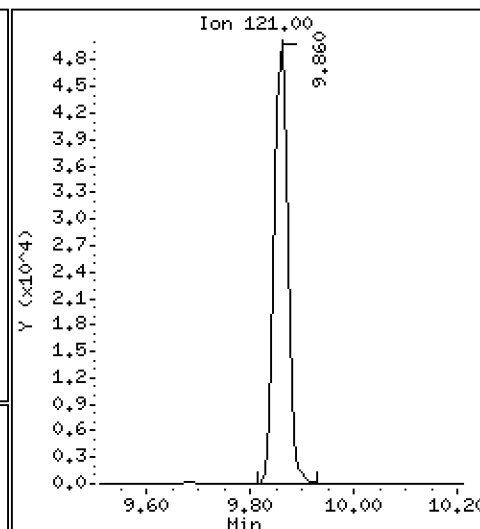
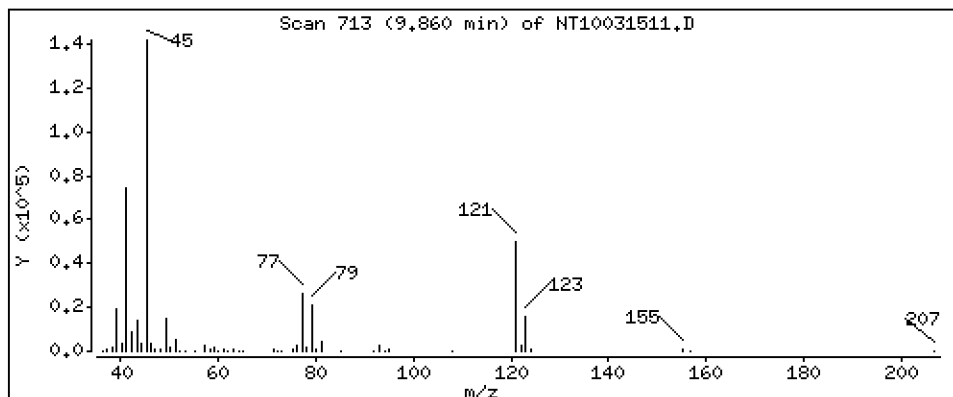
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 6,214 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

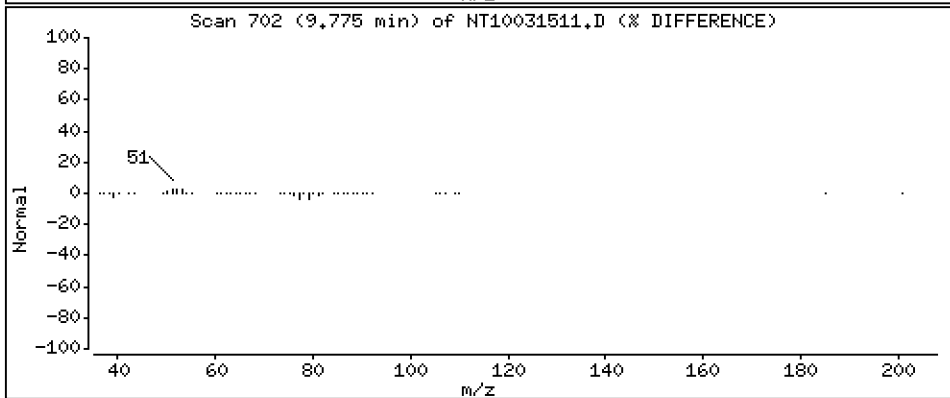
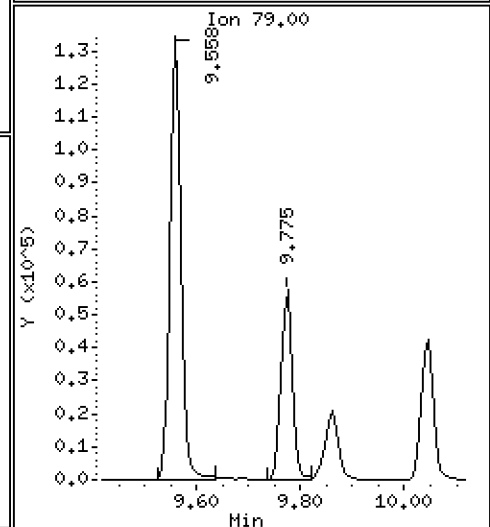
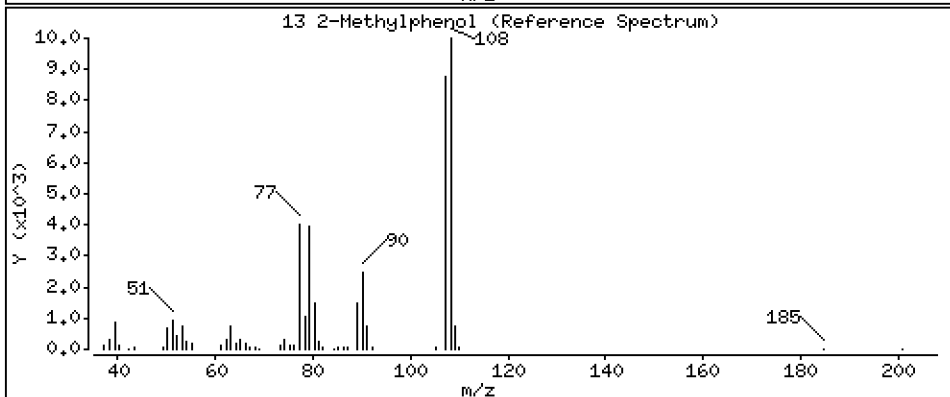
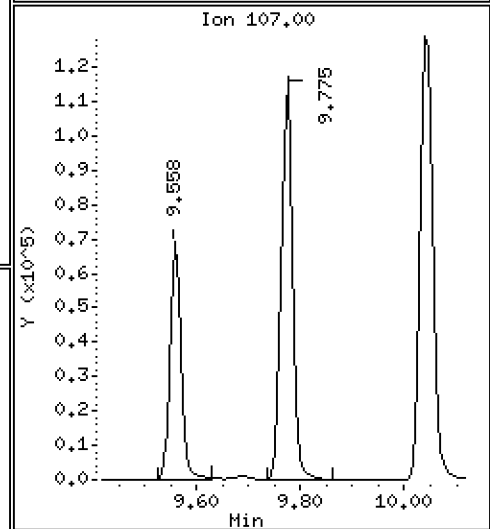
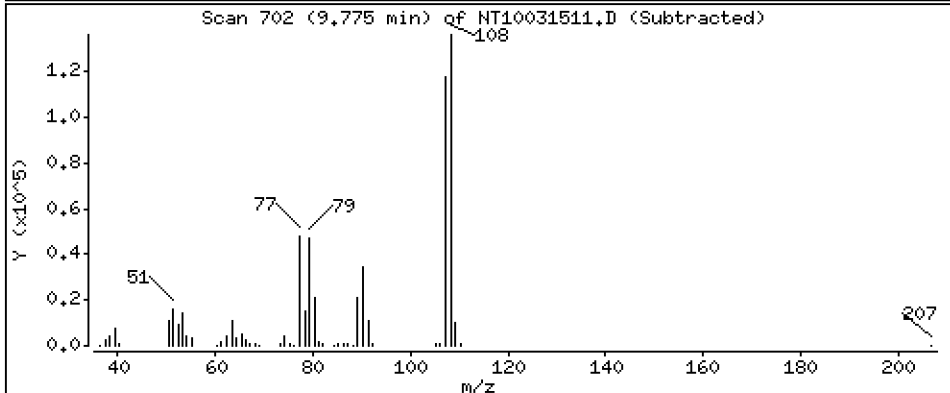
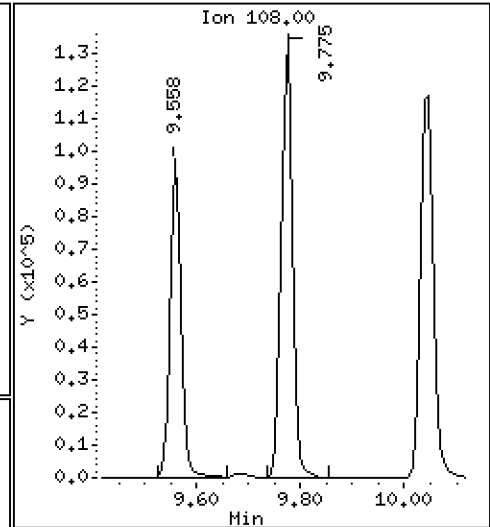
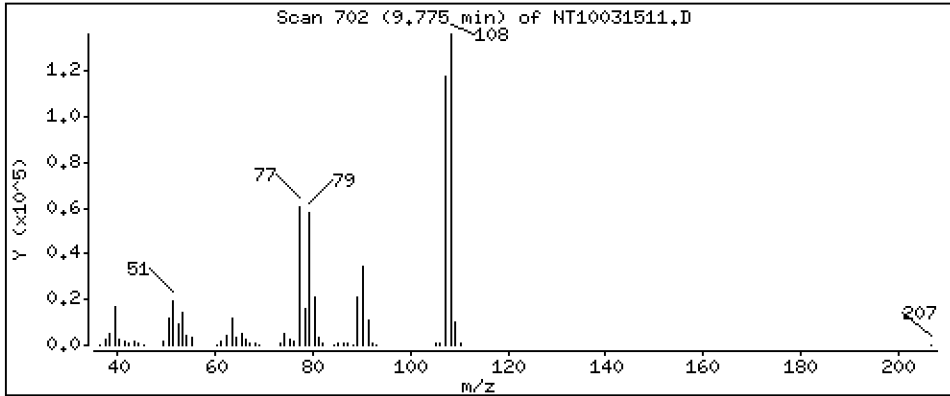
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

13 2-Methylphenol

Concentration: 4,215 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

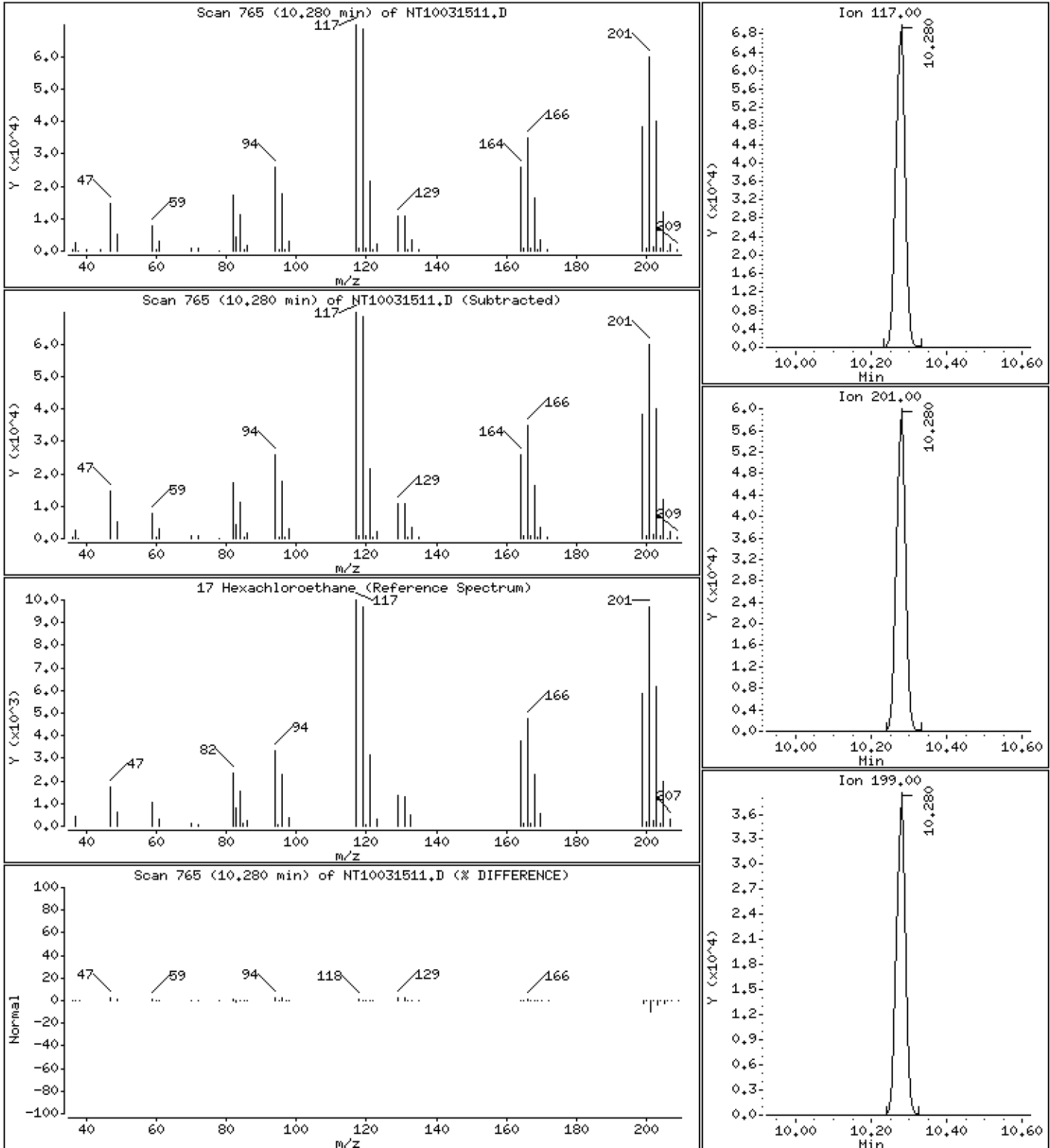
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

17 Hexachloroethane

Concentration: 5,003 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

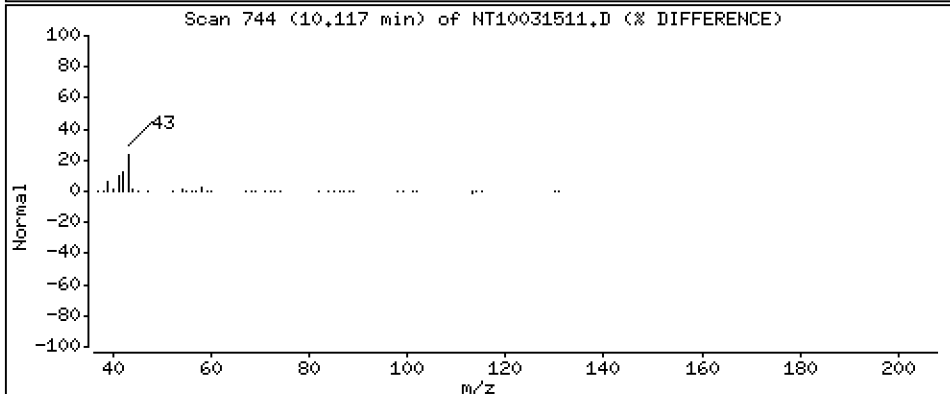
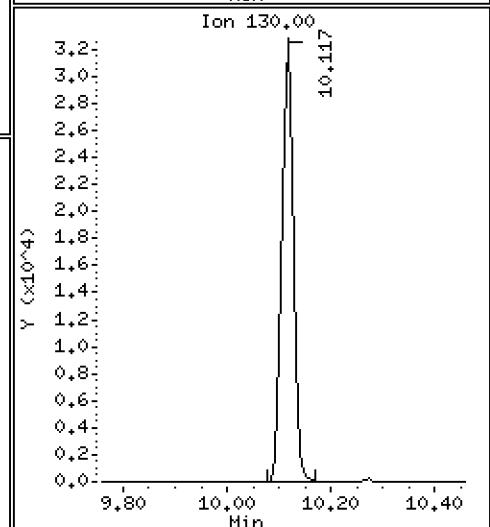
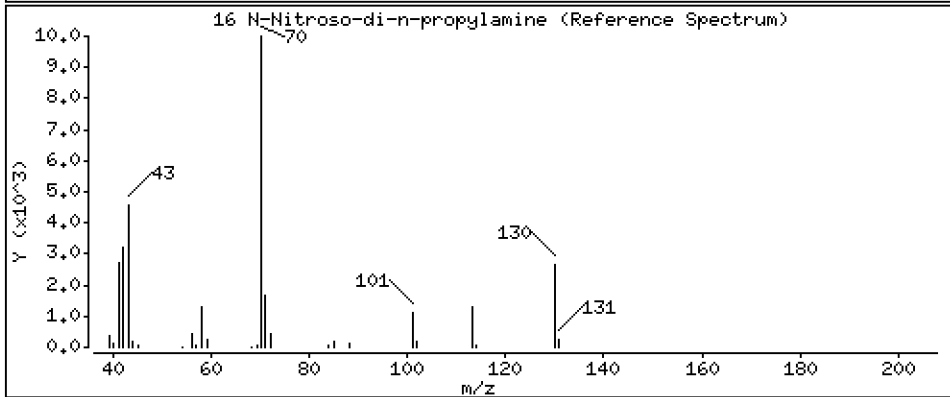
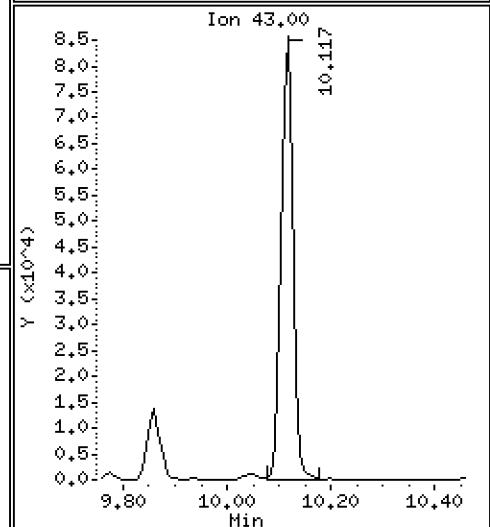
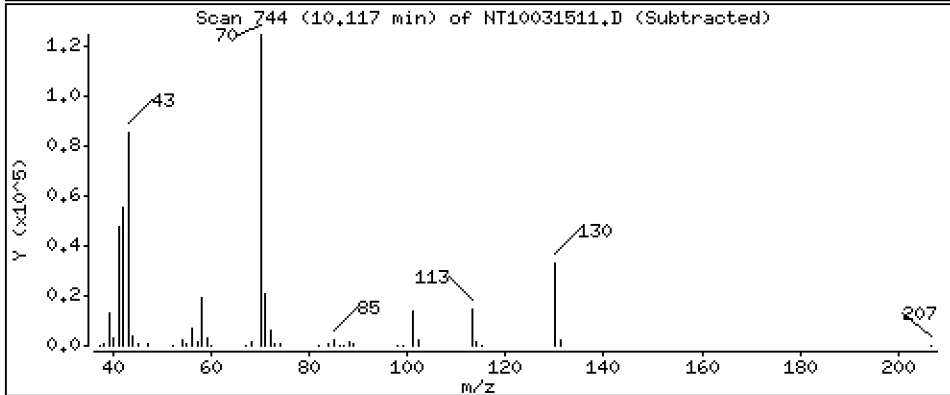
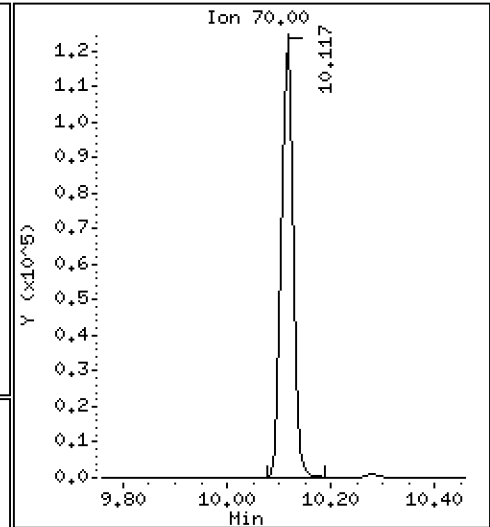
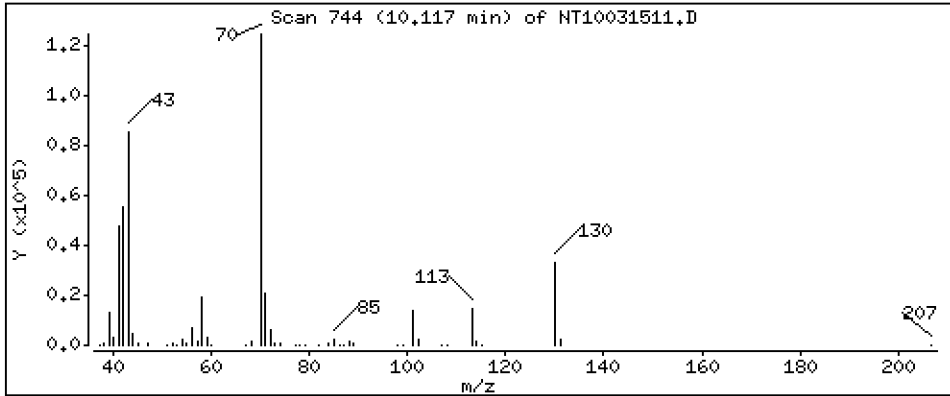
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

16 N-Nitroso-di-n-propylamine

Concentration: 5,179 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

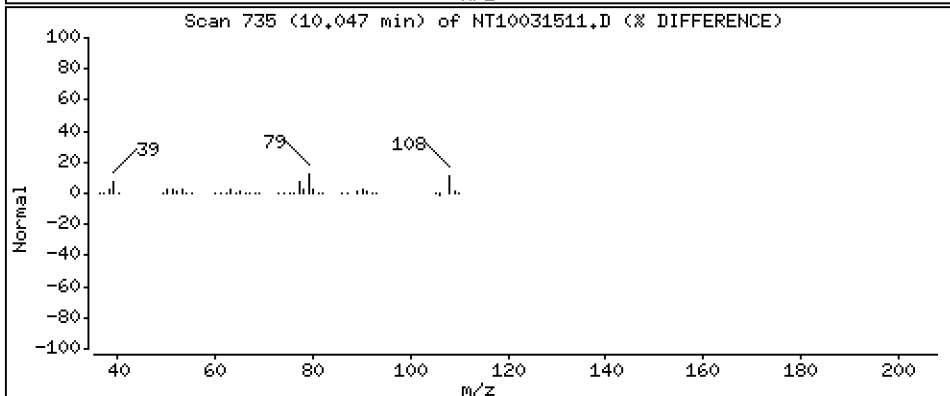
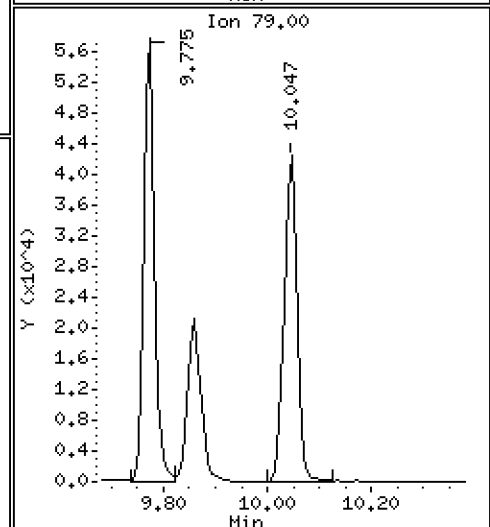
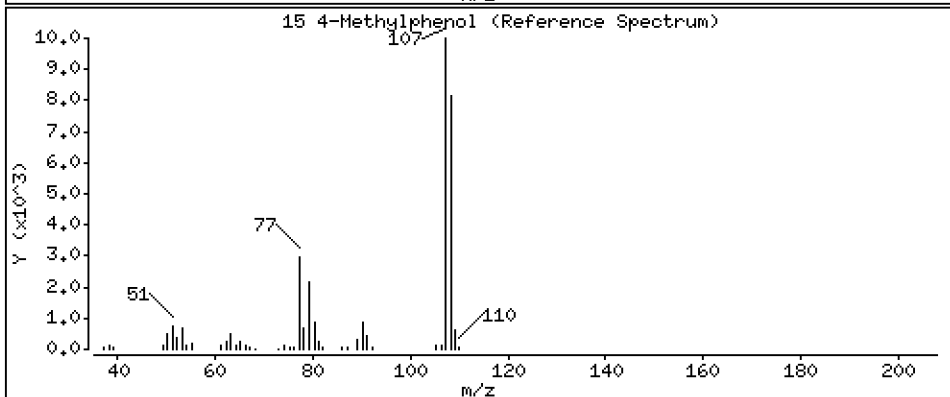
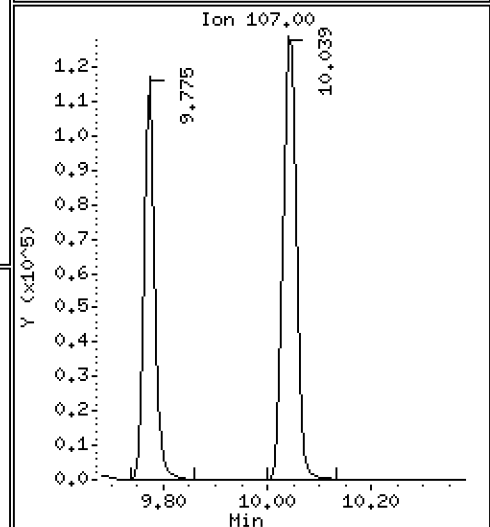
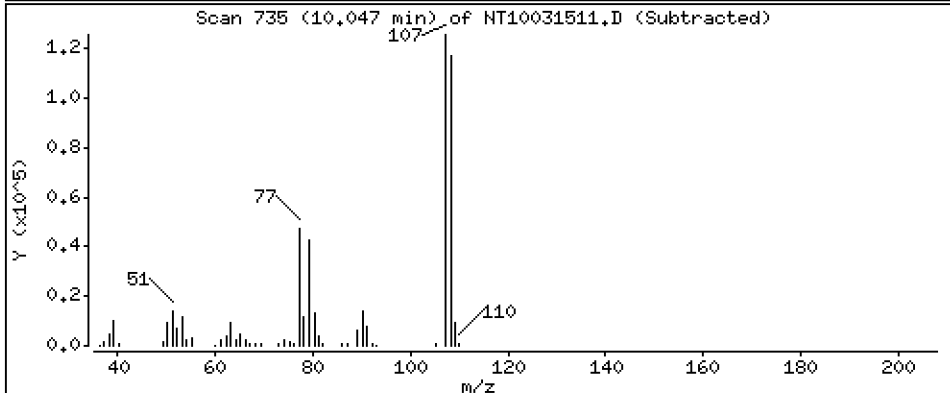
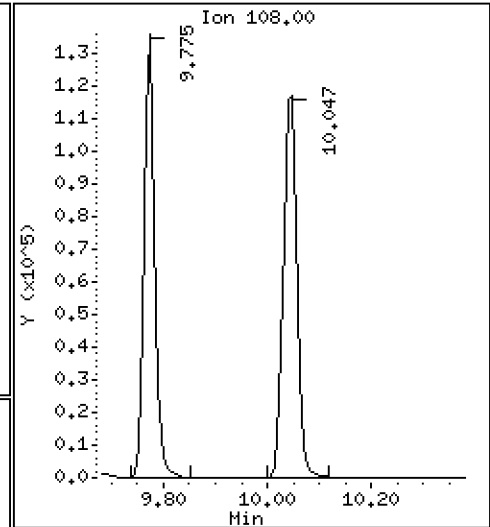
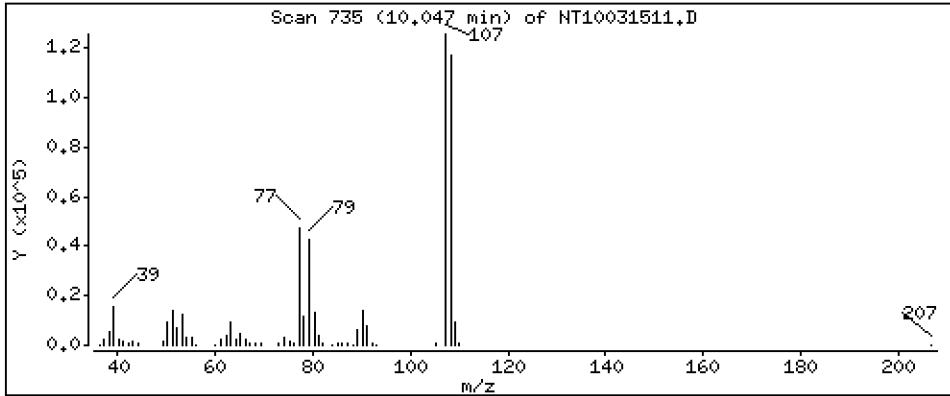
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 4.365 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

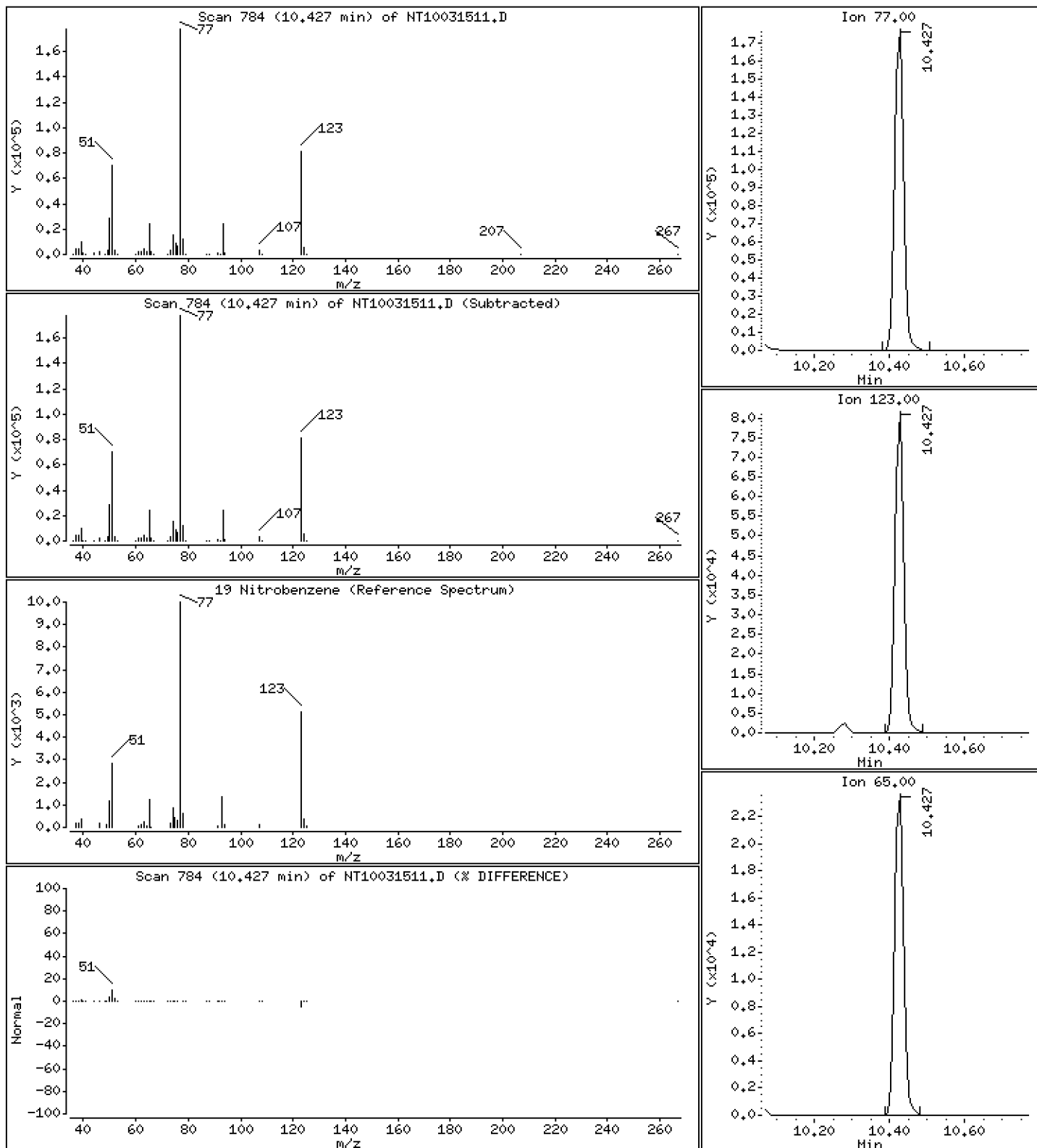
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

19 Nitrobenzene

Concentration: 4,858 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

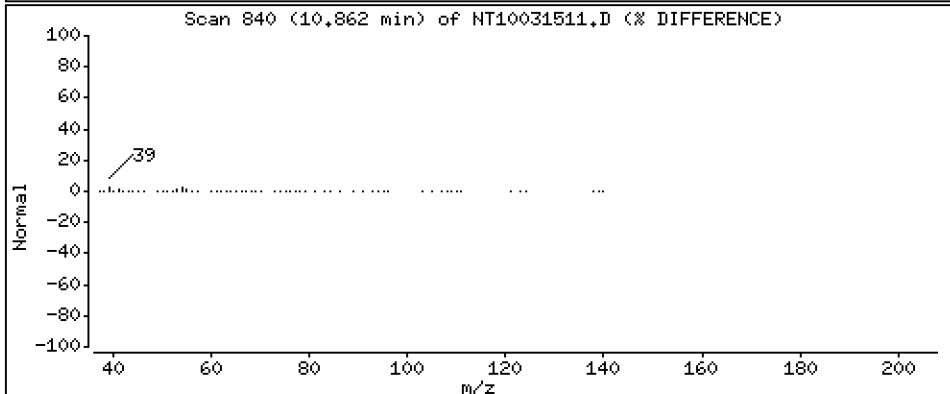
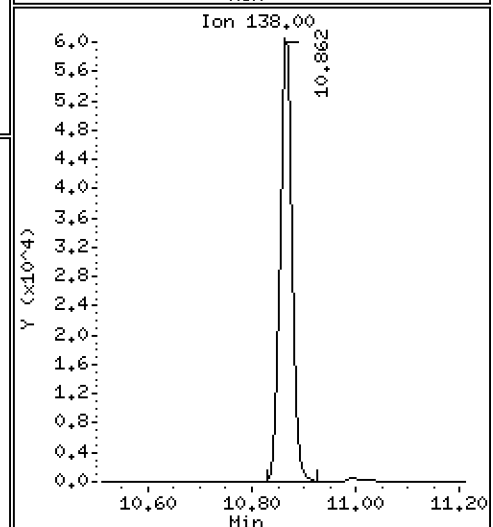
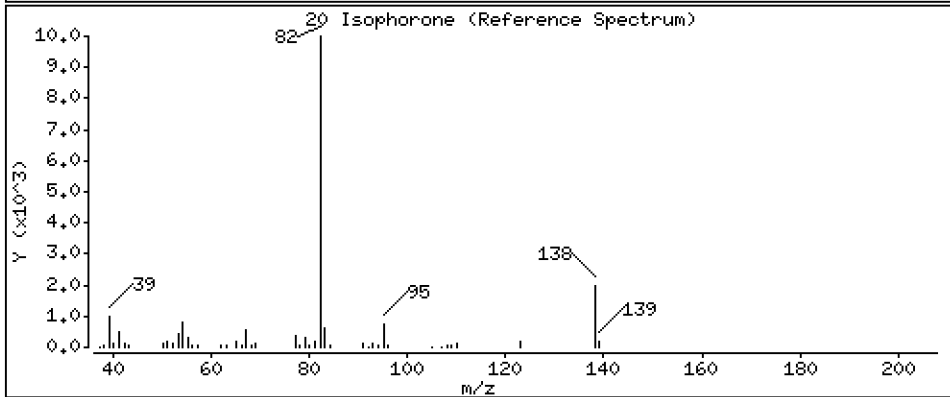
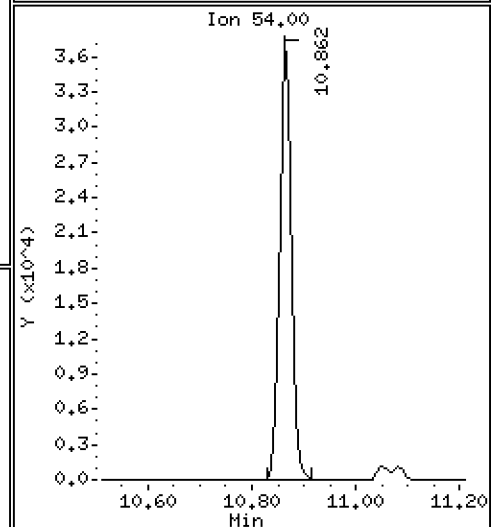
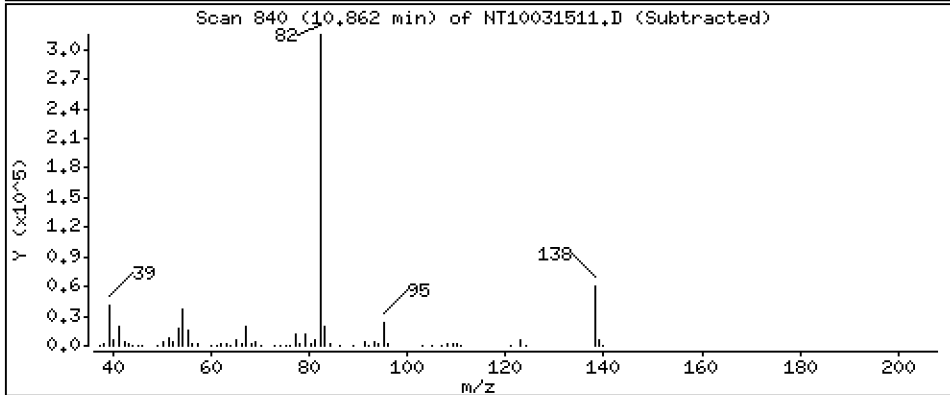
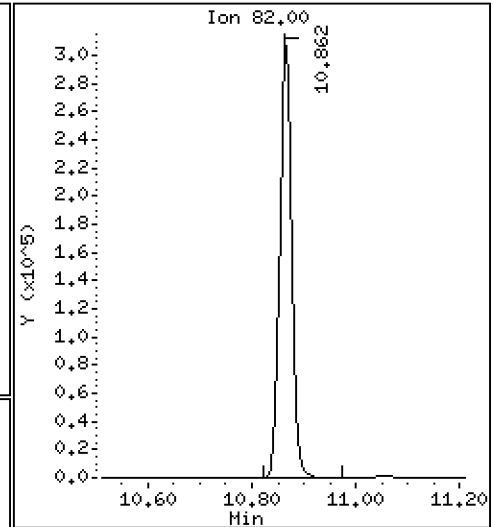
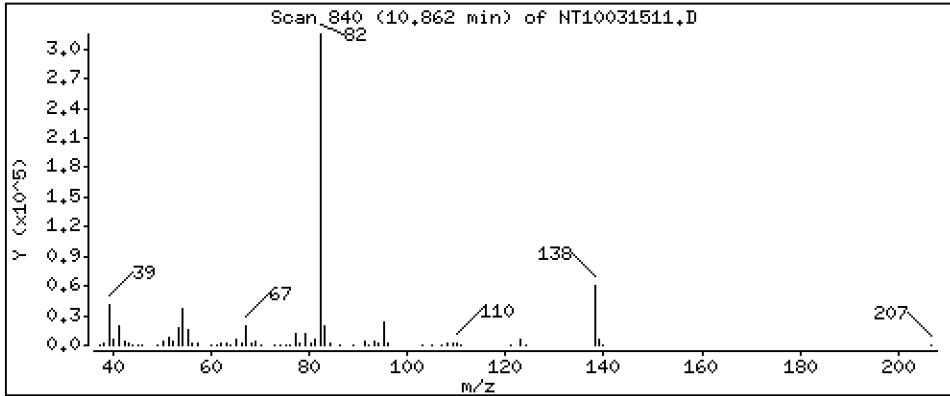
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

20 Isophorone

Concentration: 7,696 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

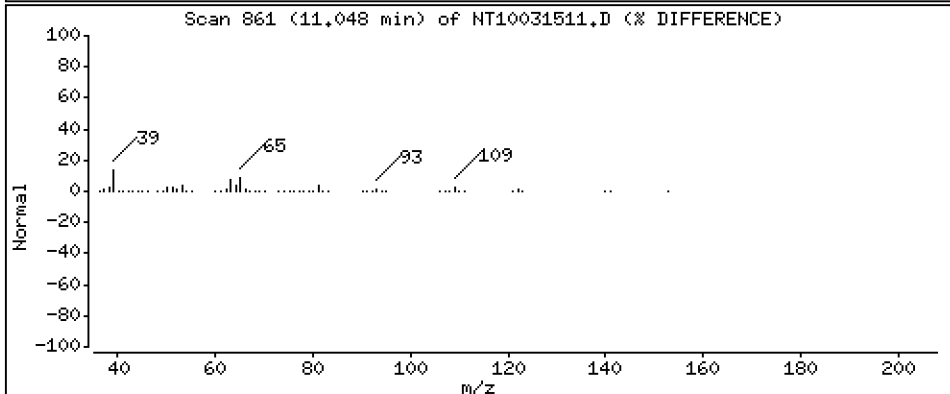
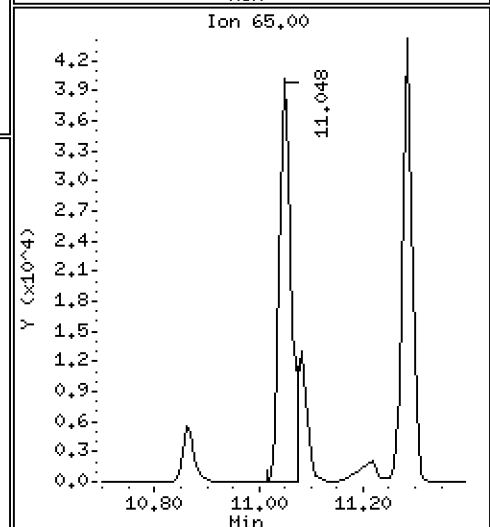
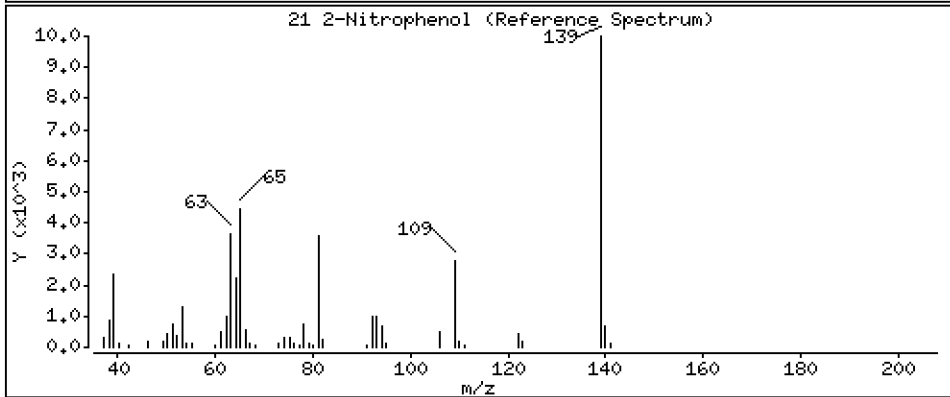
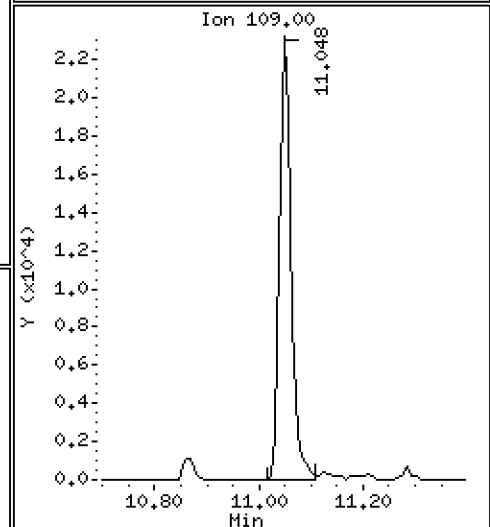
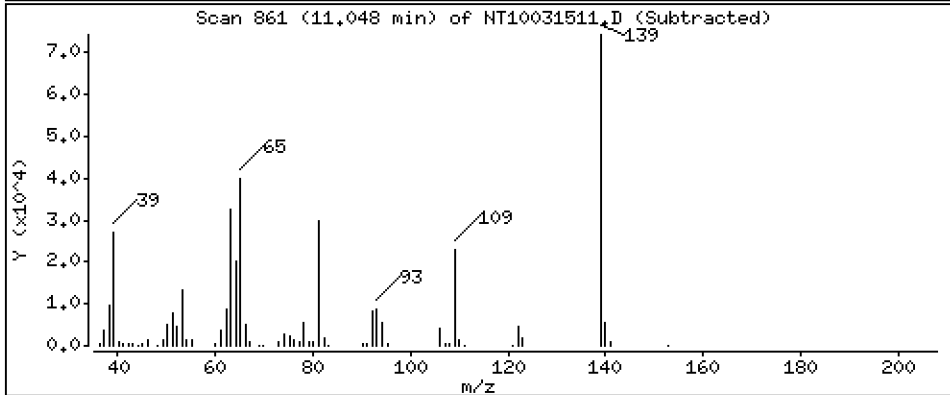
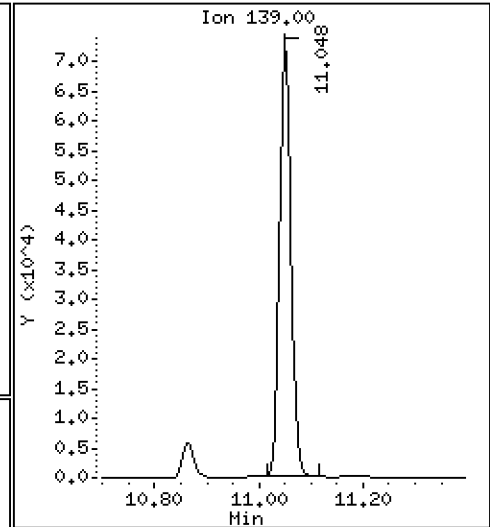
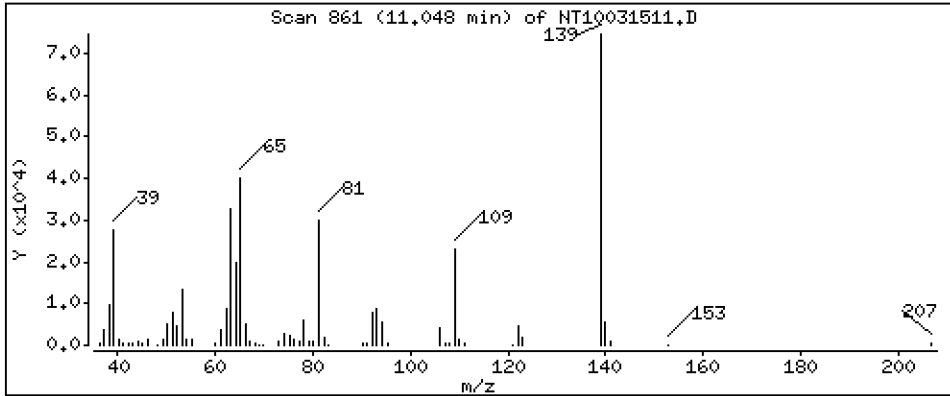
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

21 2-Nitrophenol

Concentration: 3,995 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

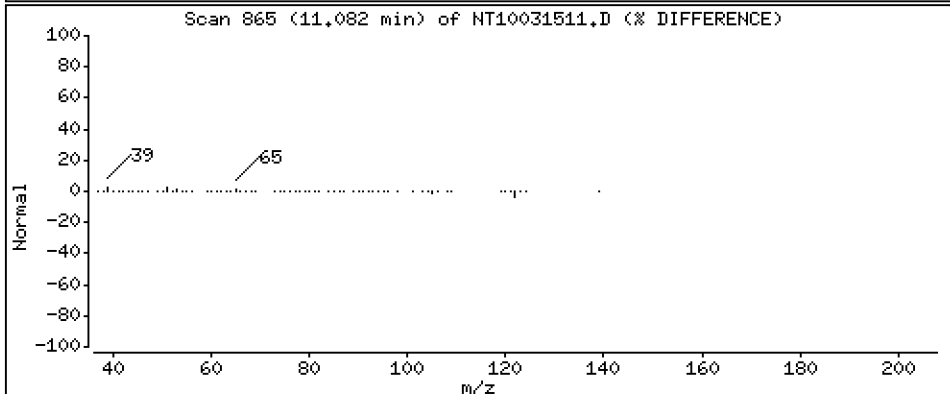
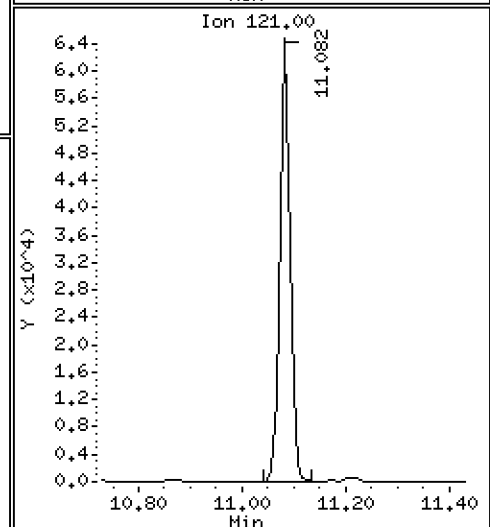
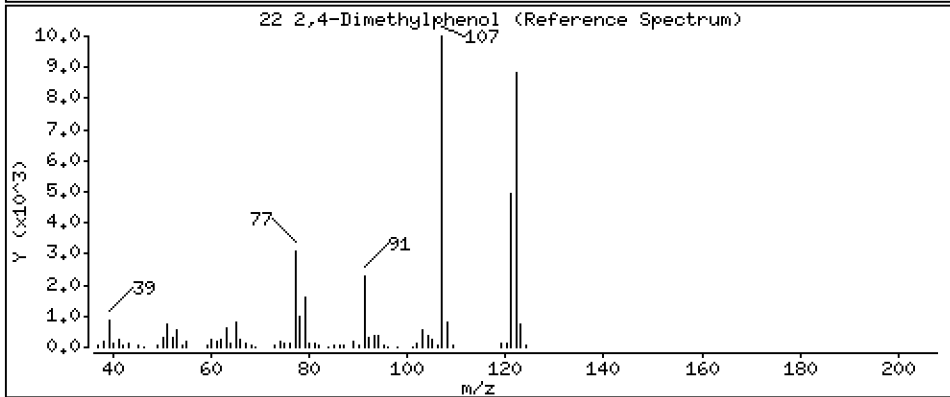
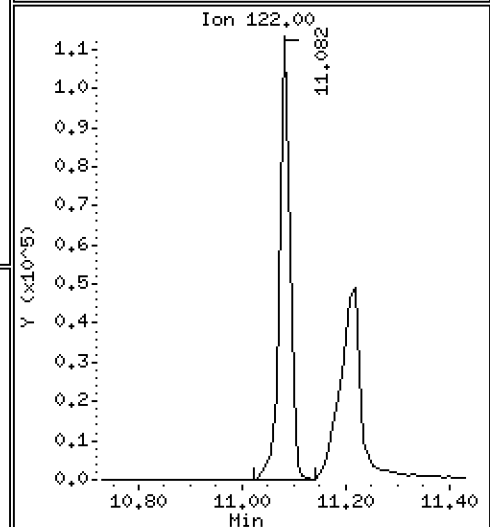
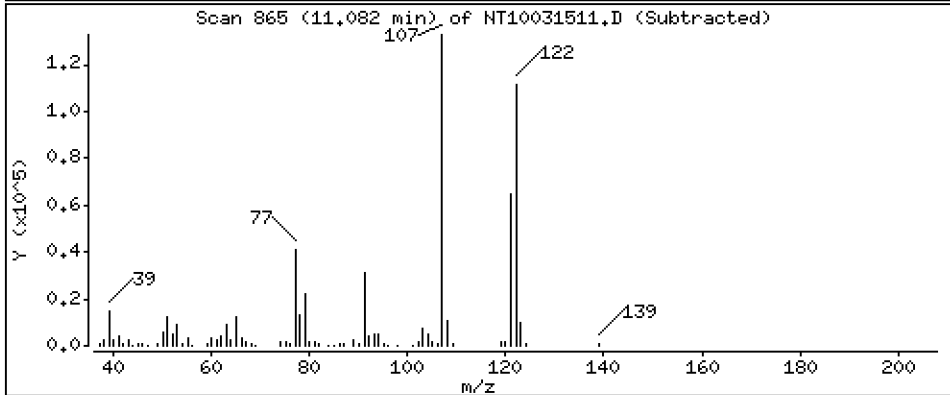
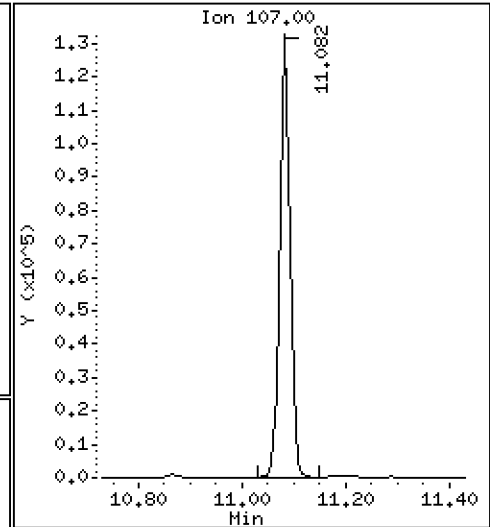
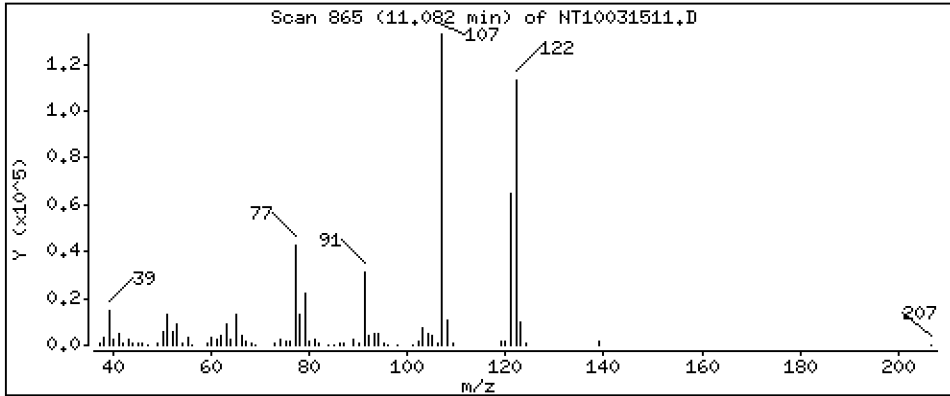
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 3,632 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

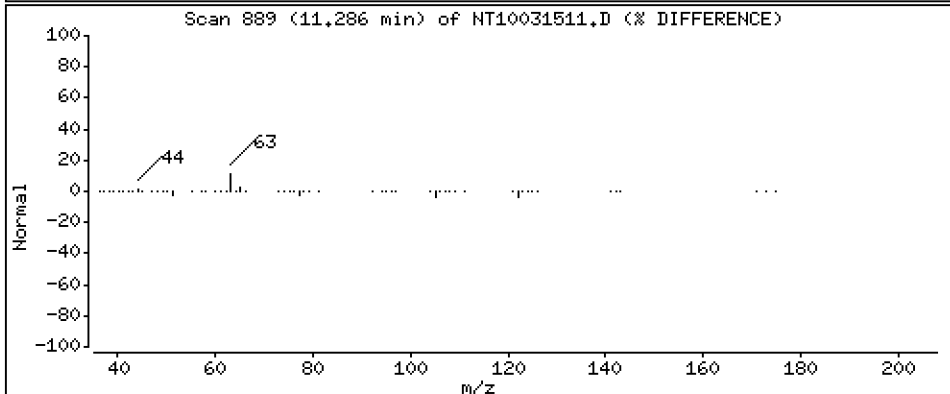
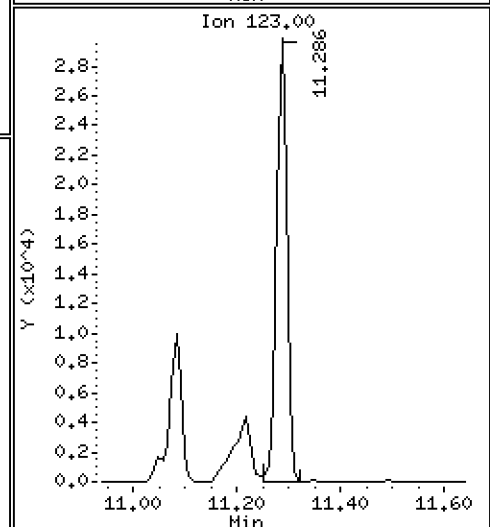
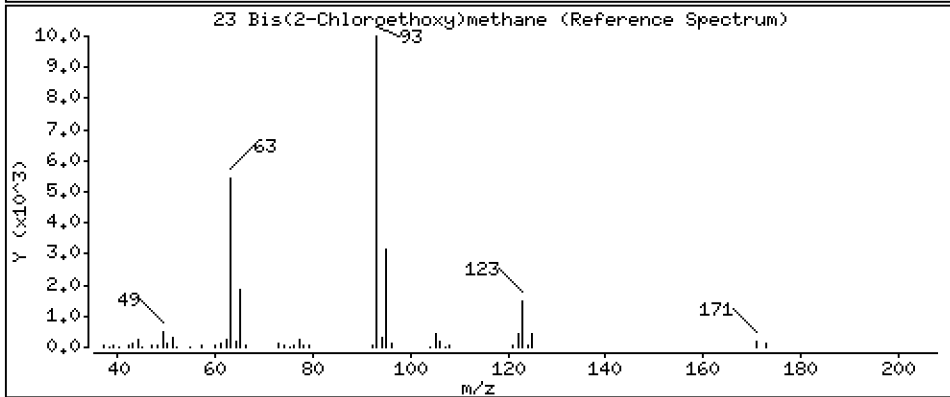
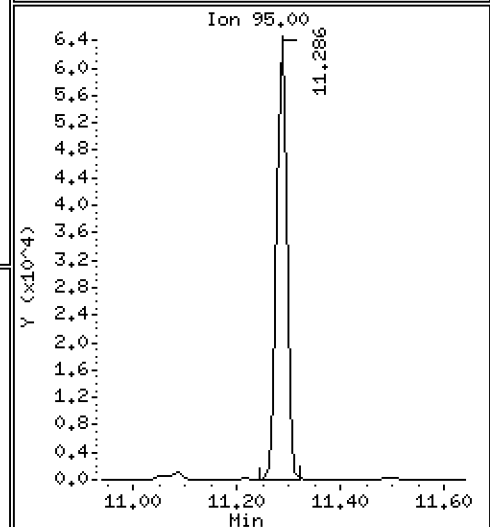
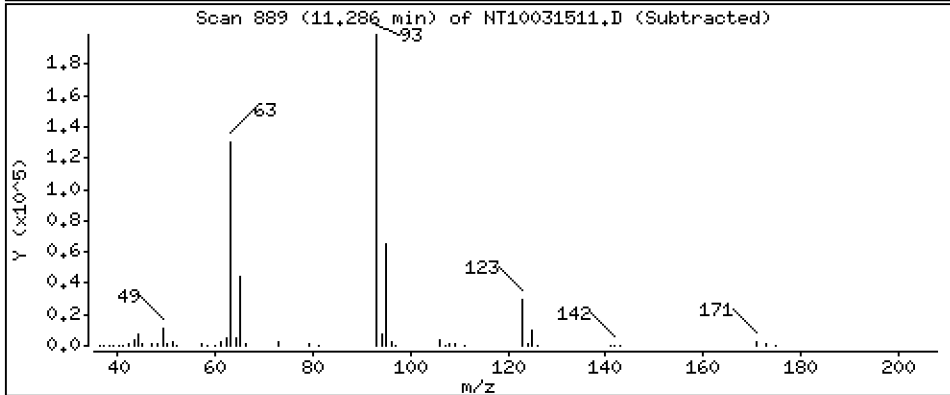
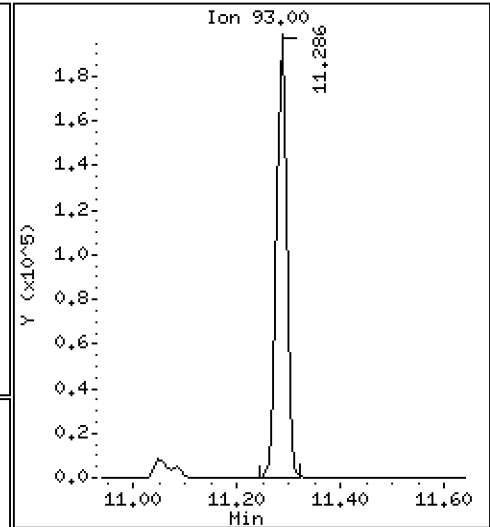
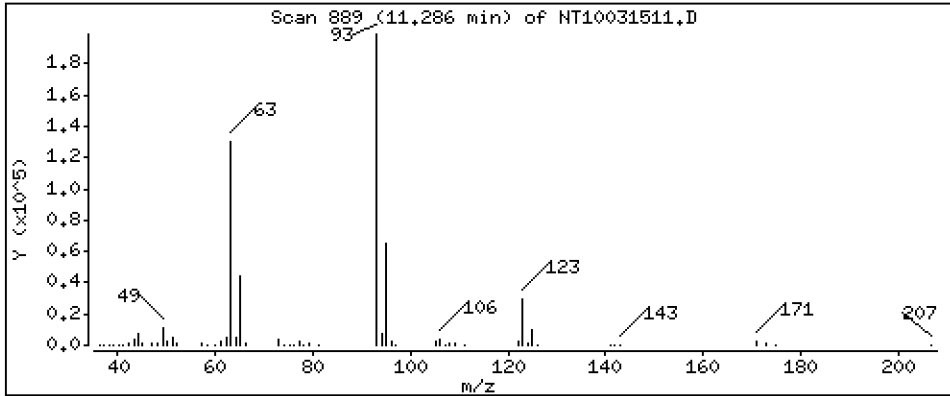
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

23 Bis(2-Chloroethoxy)methane

Concentration: 5,654 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

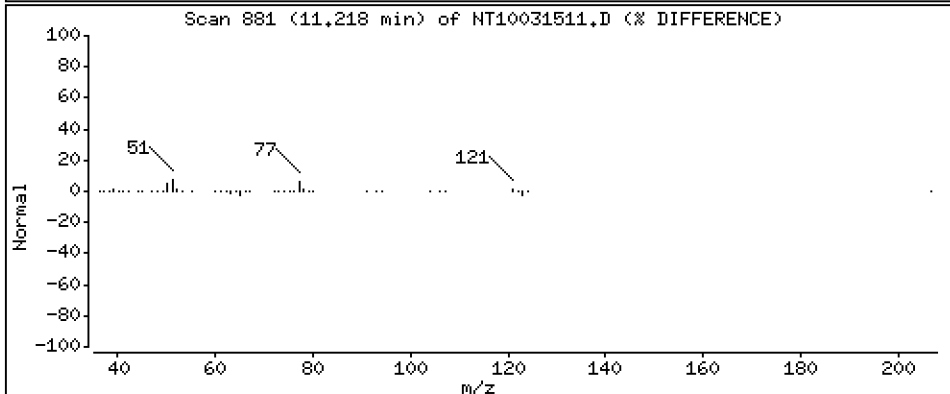
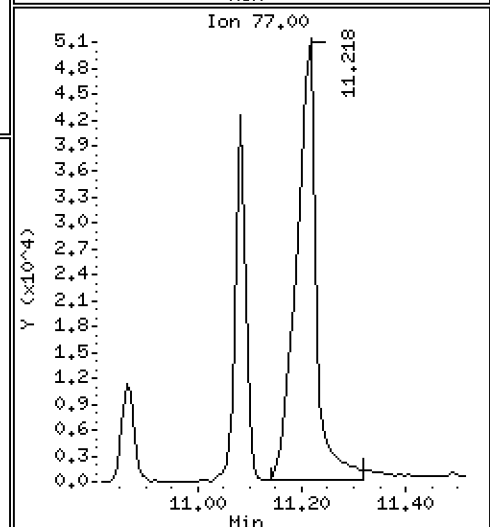
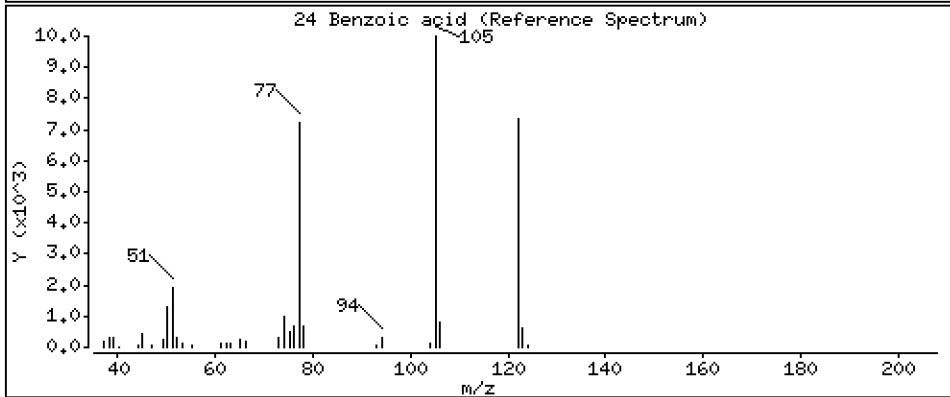
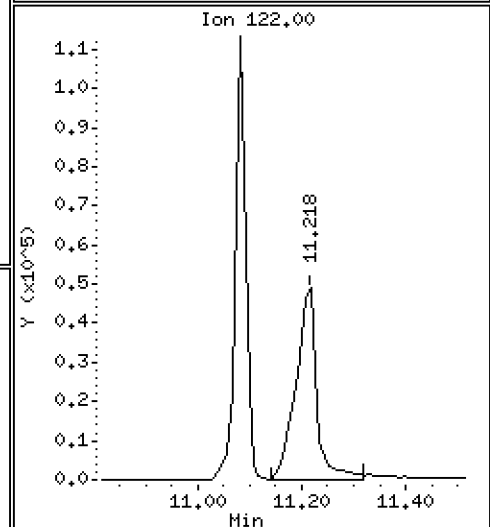
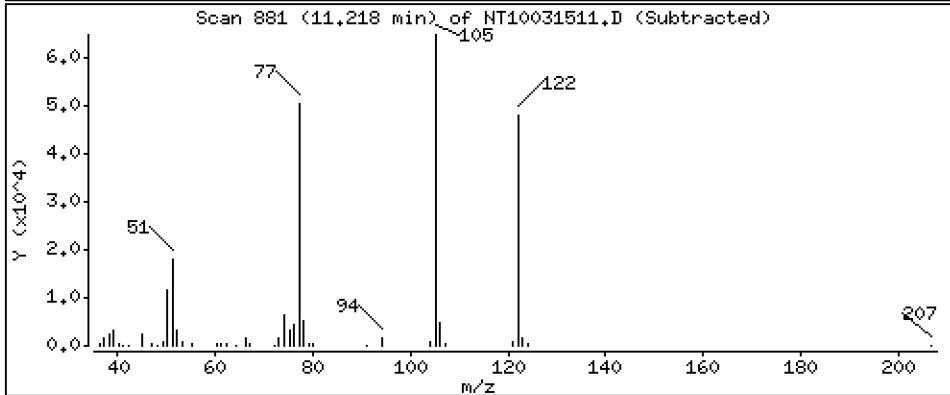
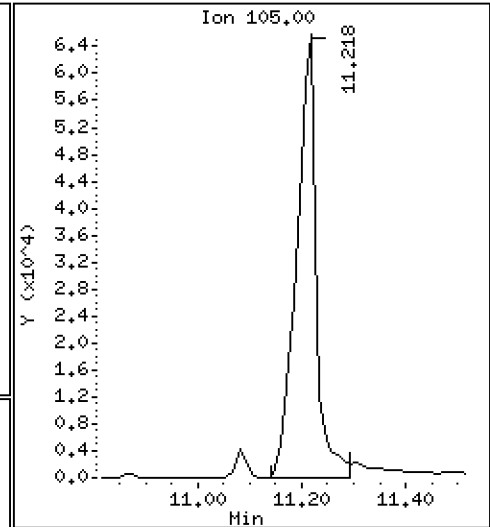
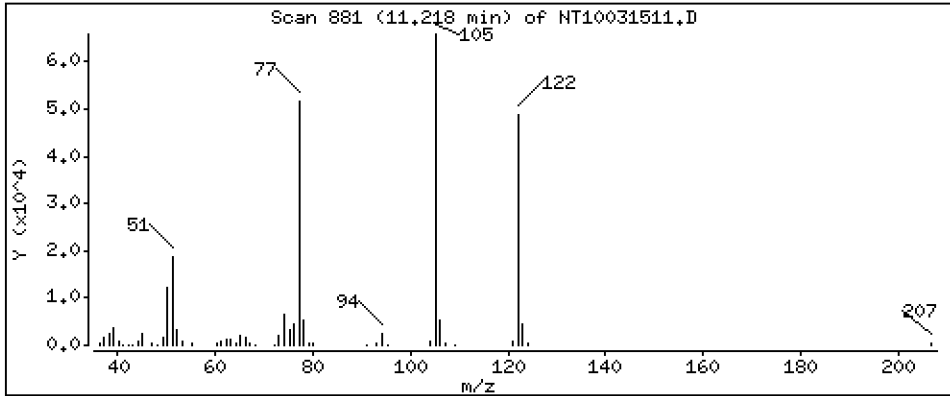
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

24 Benzoic acid

Concentration: 5,952 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

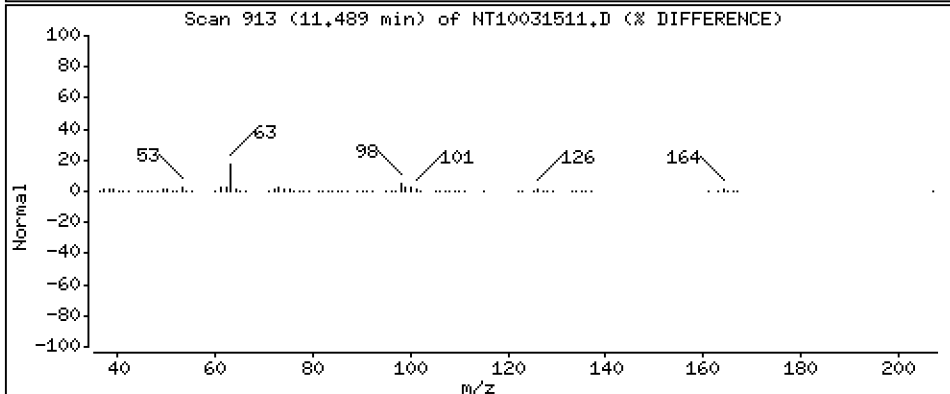
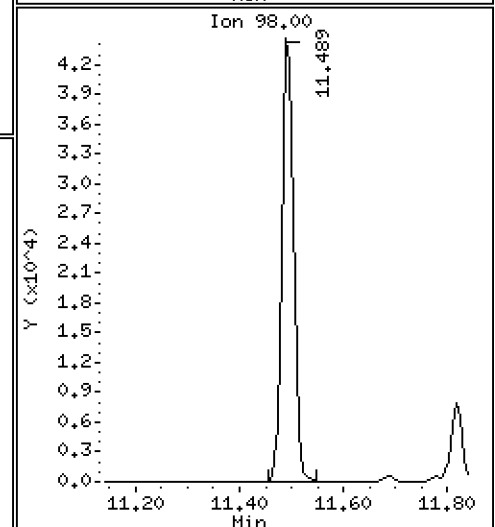
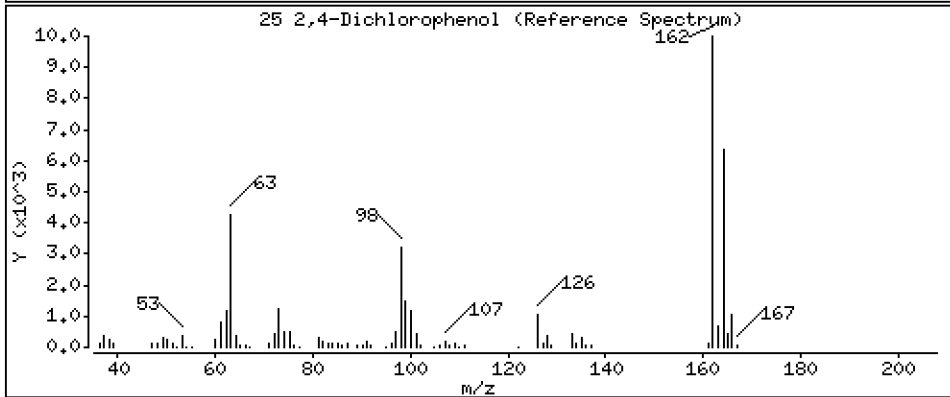
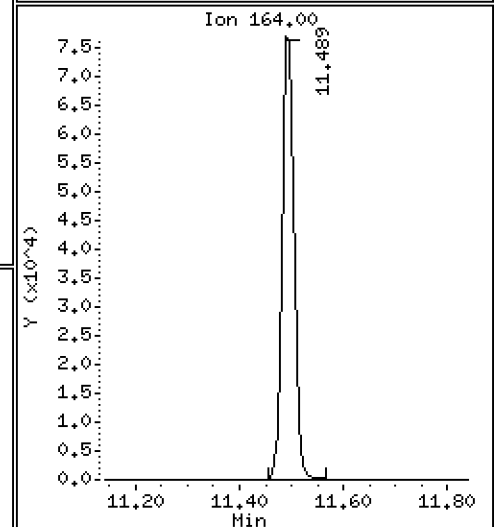
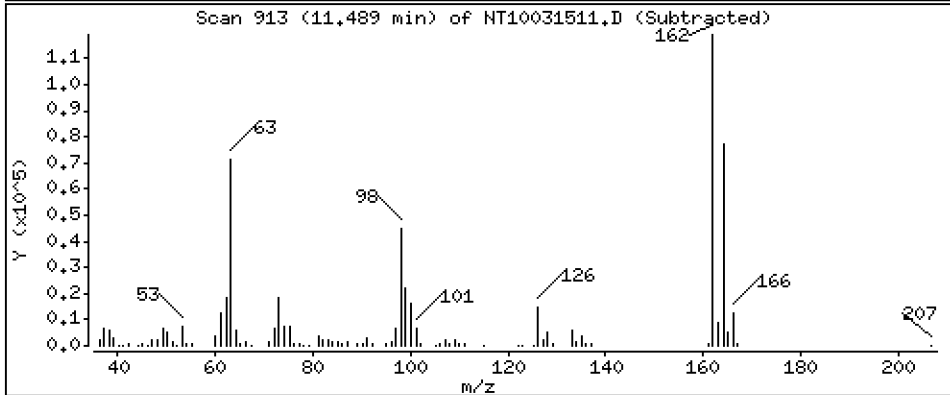
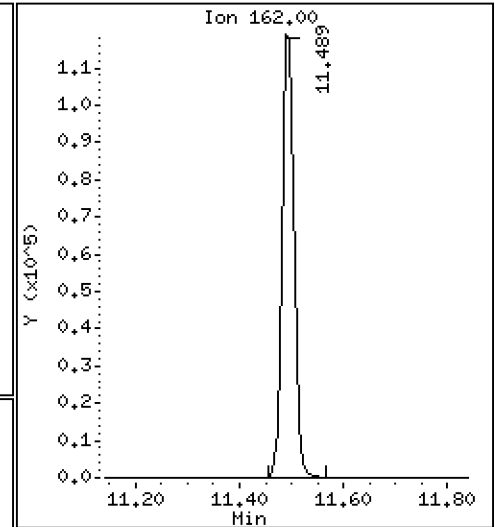
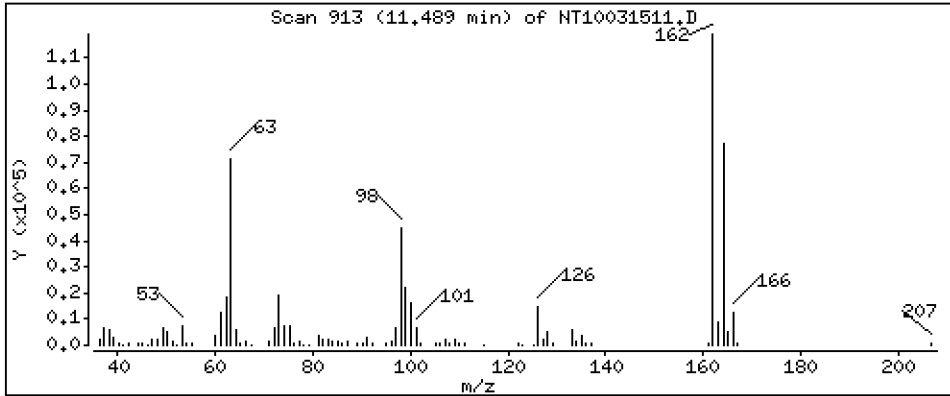
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 4,703 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

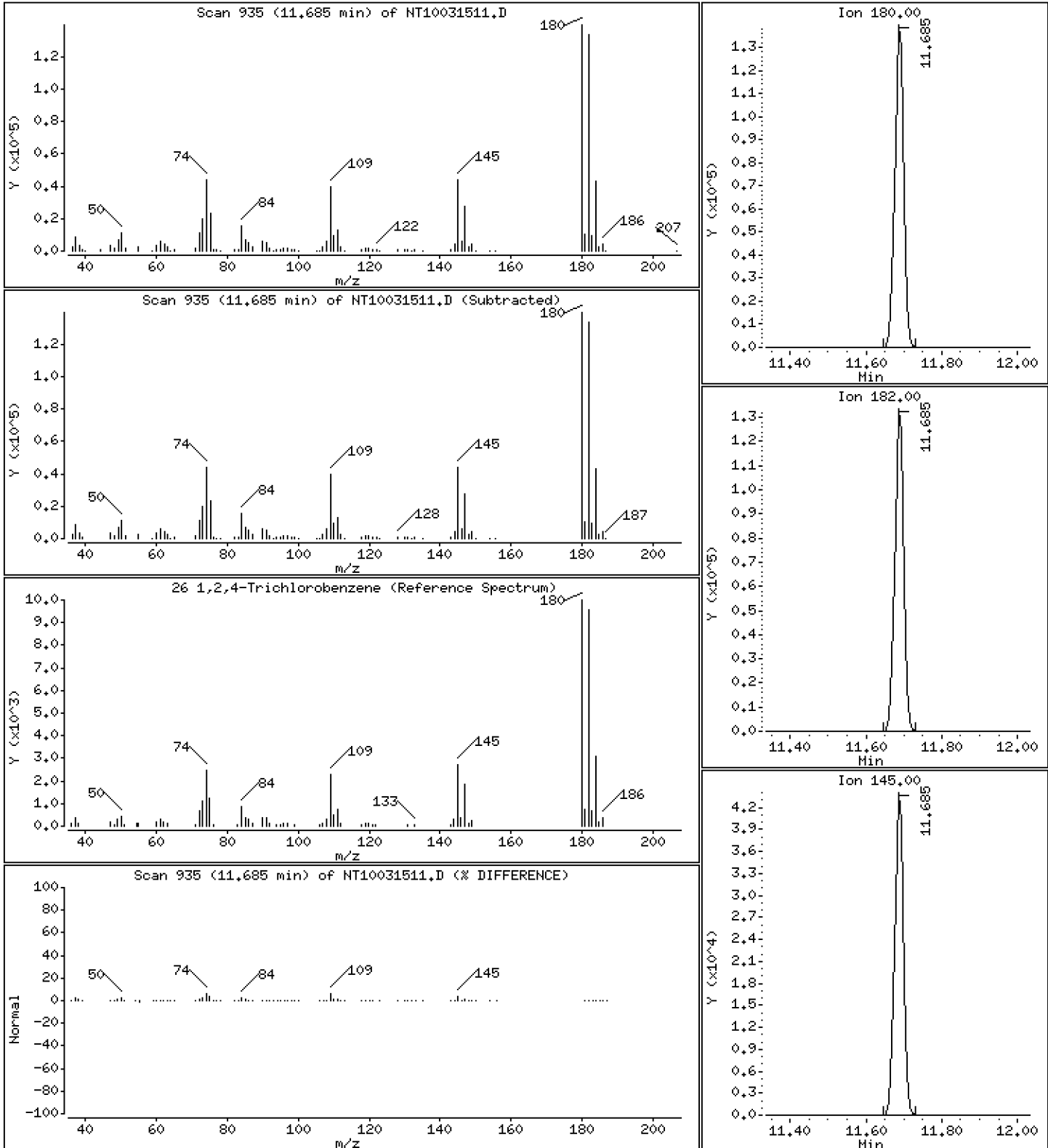
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 4,554 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

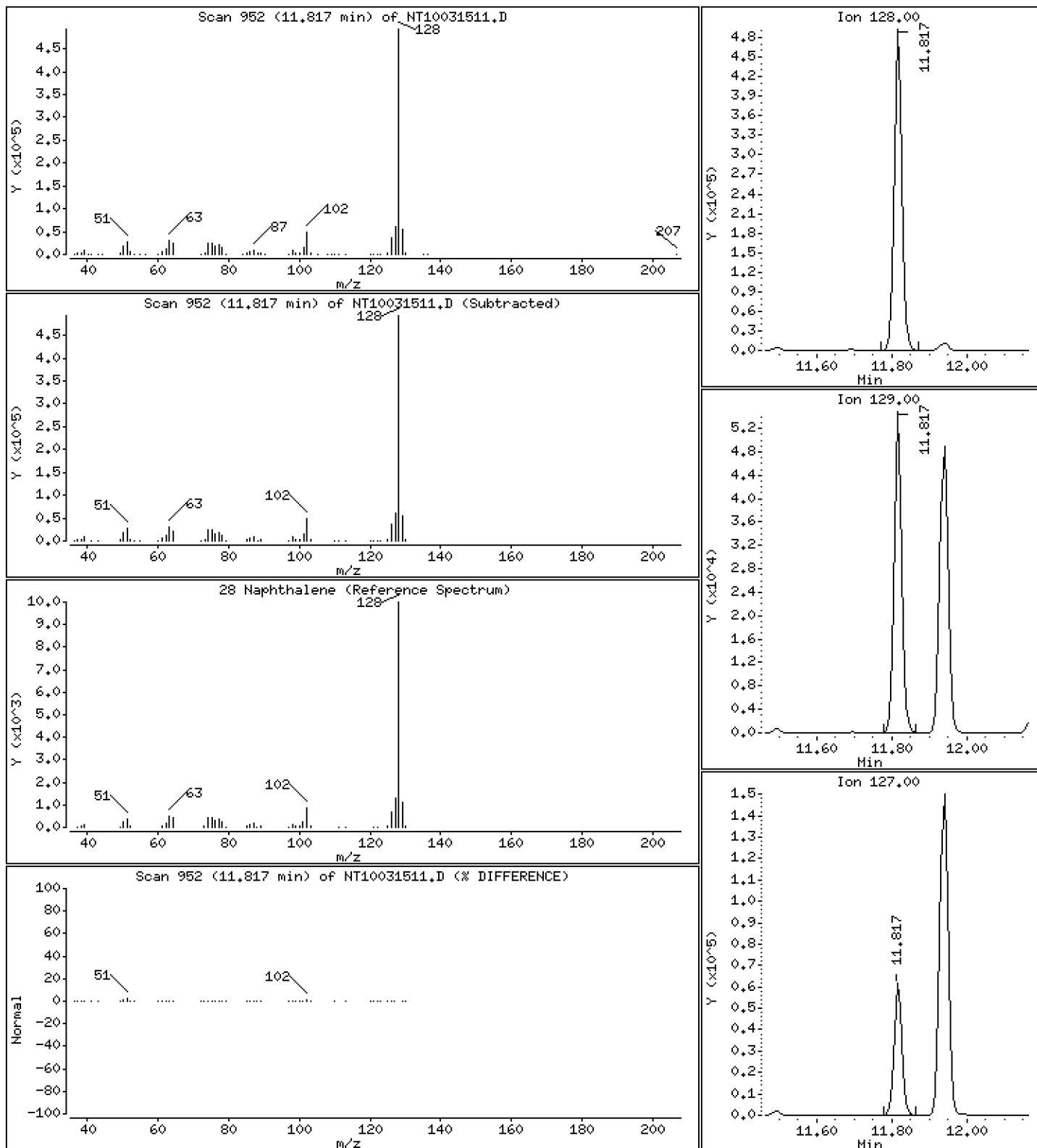
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 4,717 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

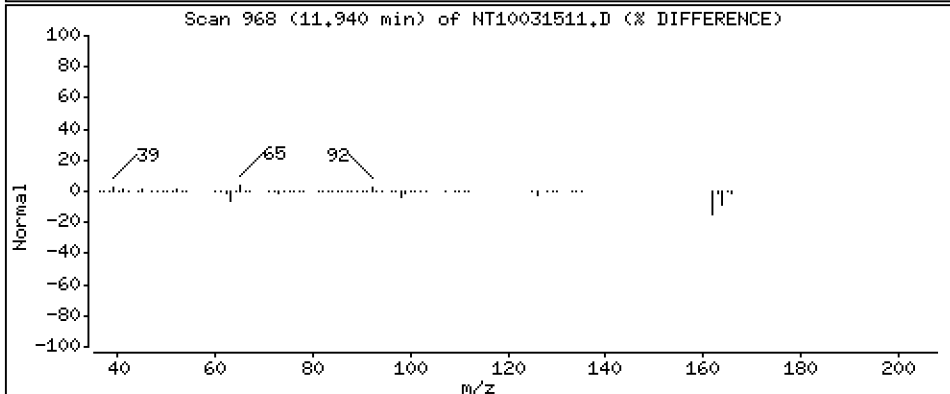
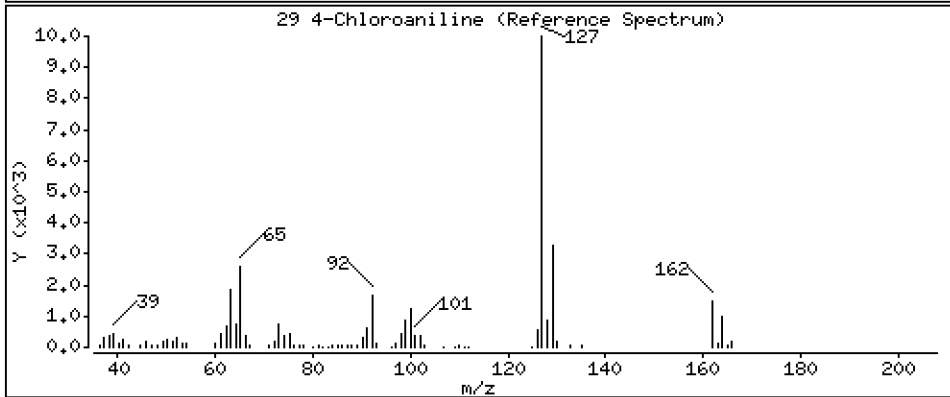
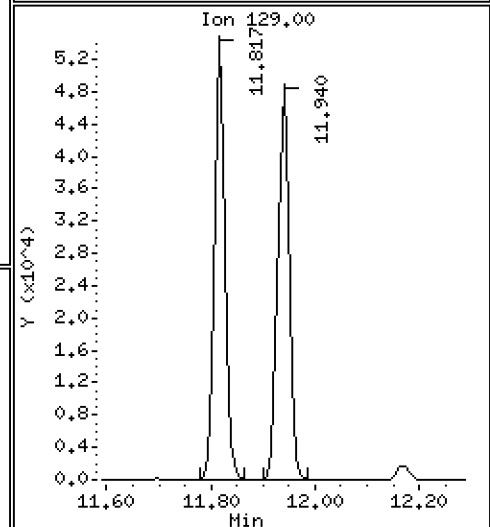
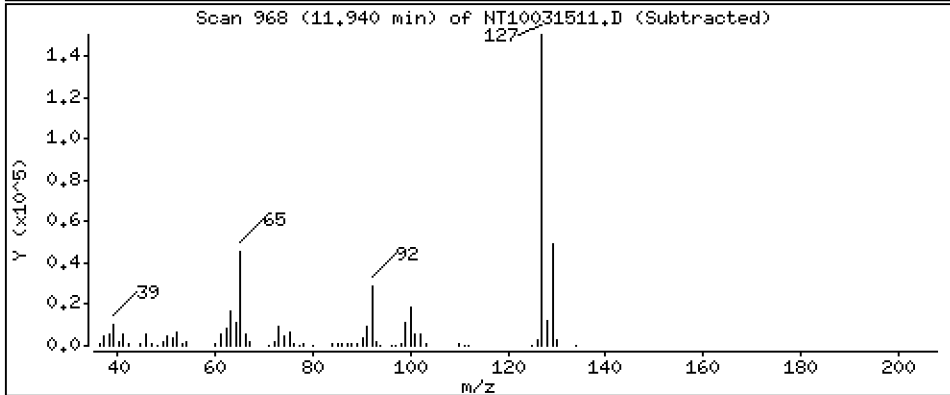
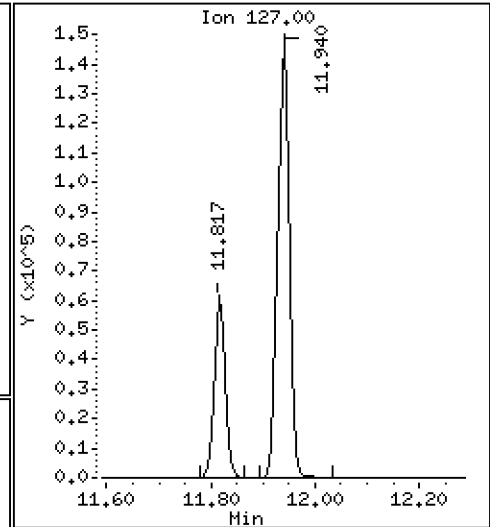
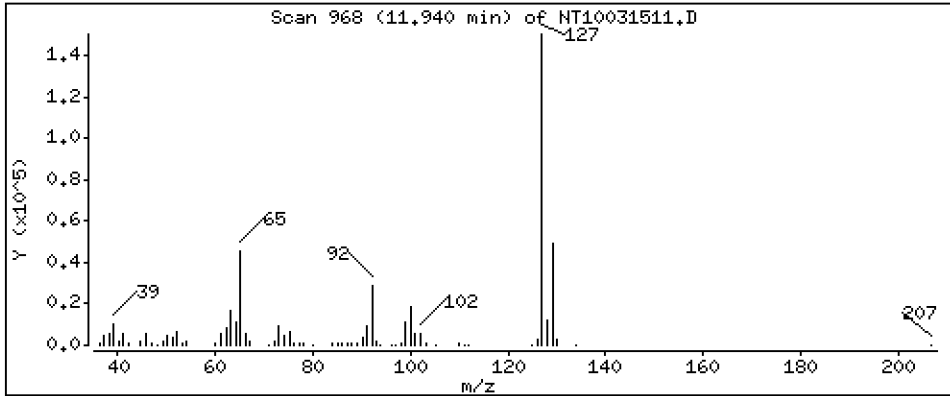
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

29 4-Chloroaniline

Concentration: 3,787 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

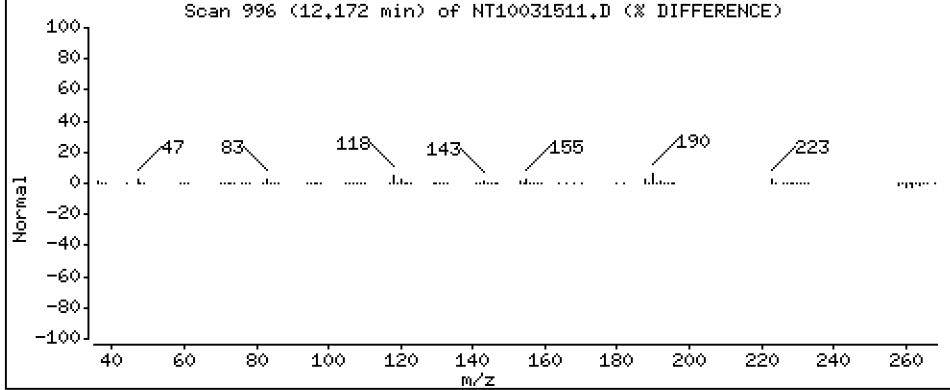
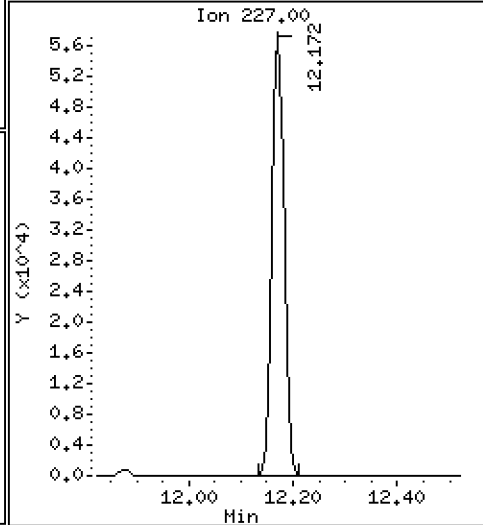
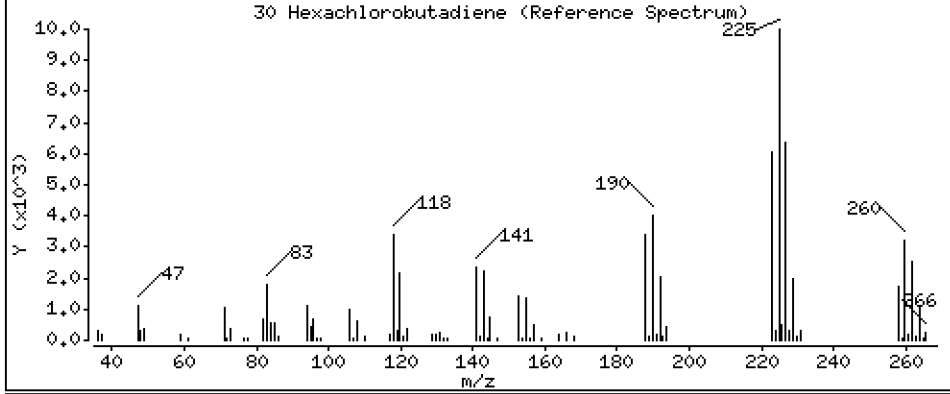
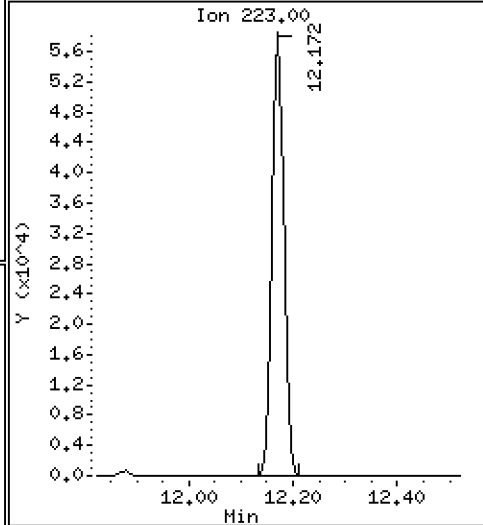
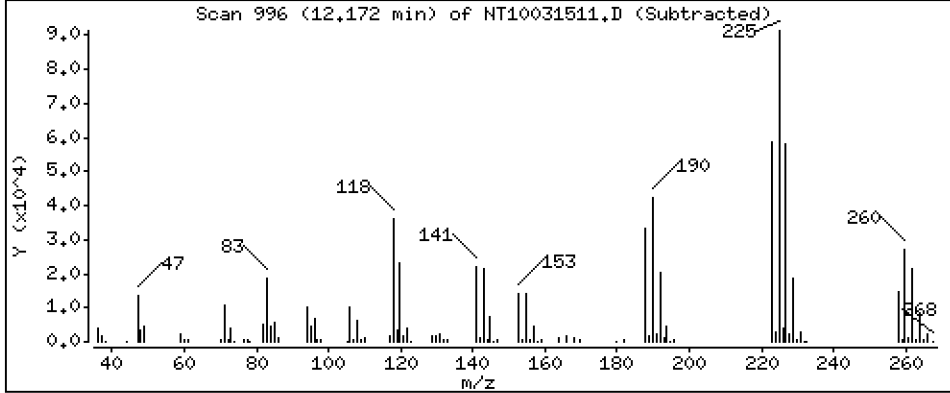
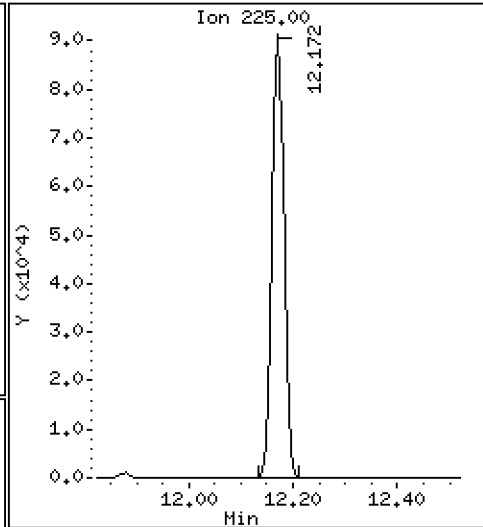
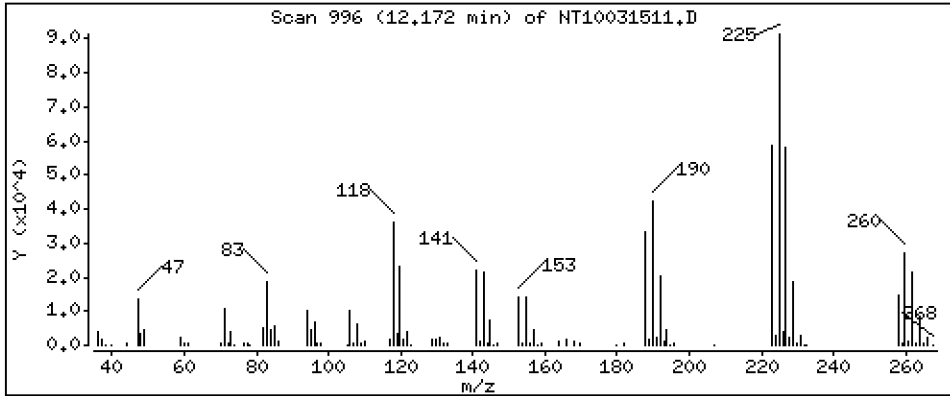
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 4,834 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

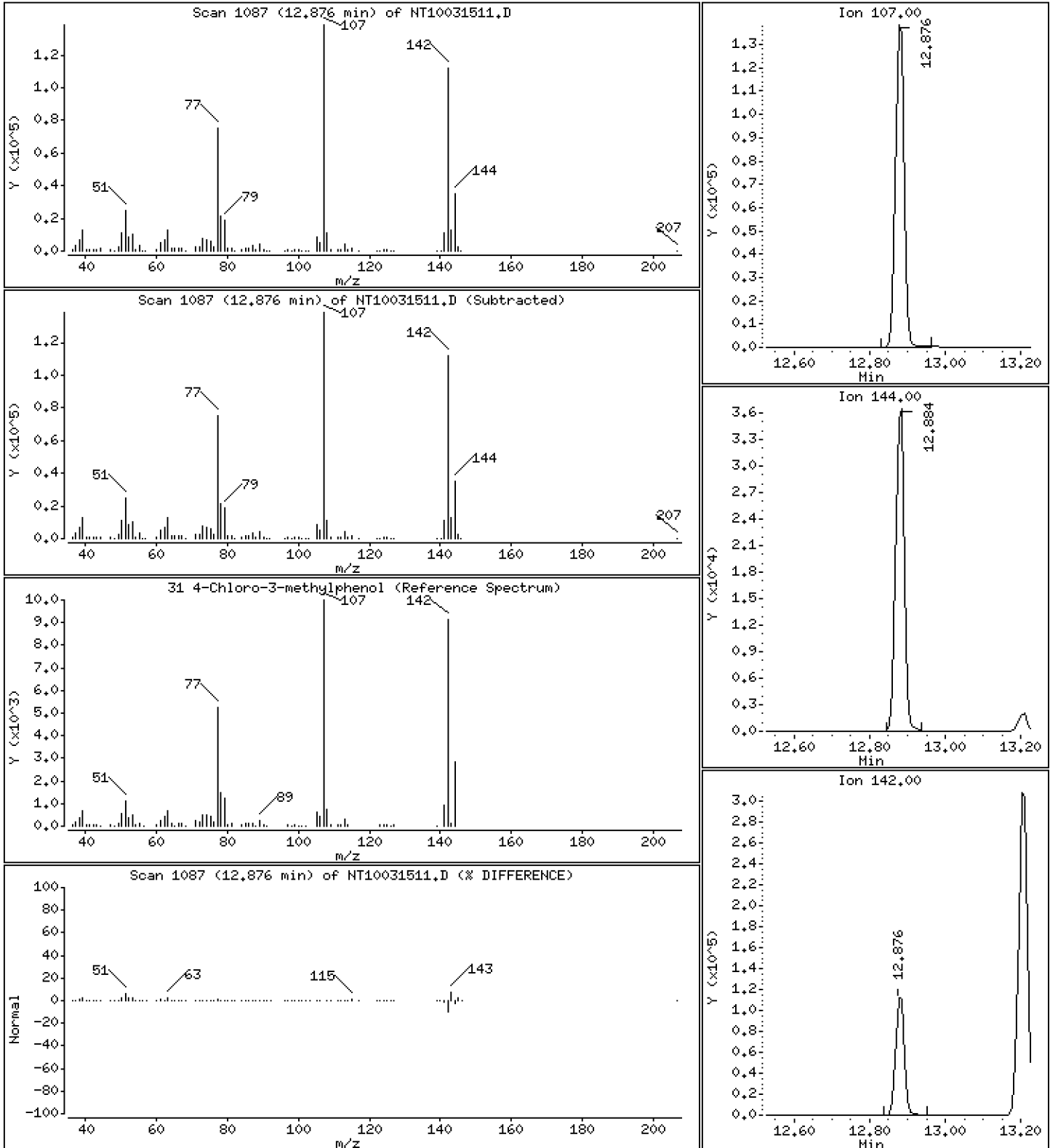
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

31 4-Chloro-3-methylphenol

Concentration: 4,640 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

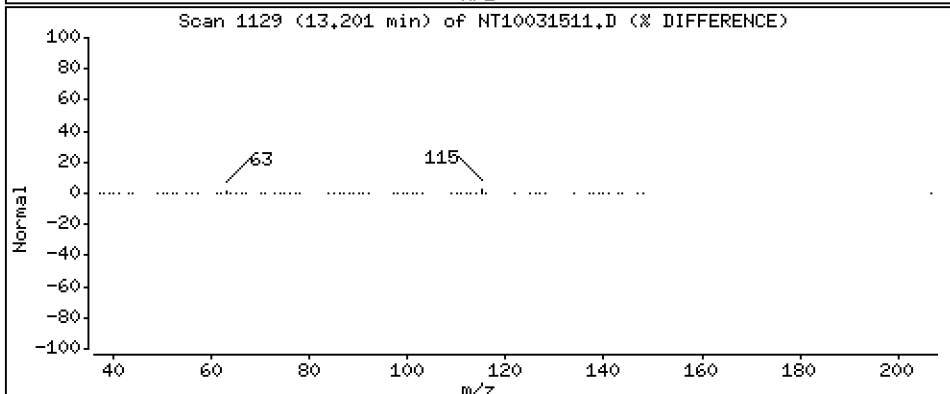
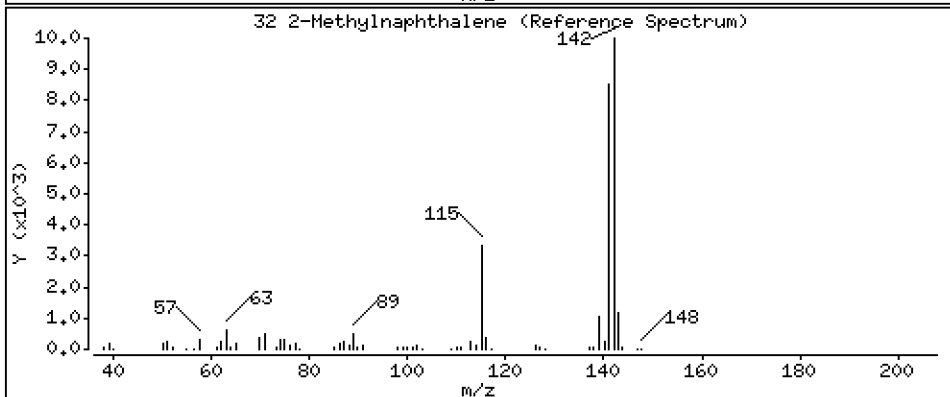
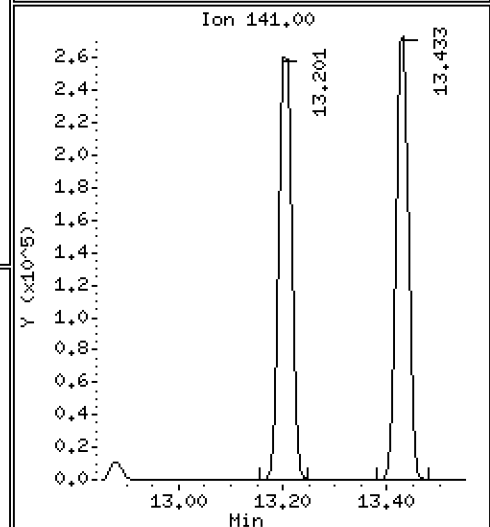
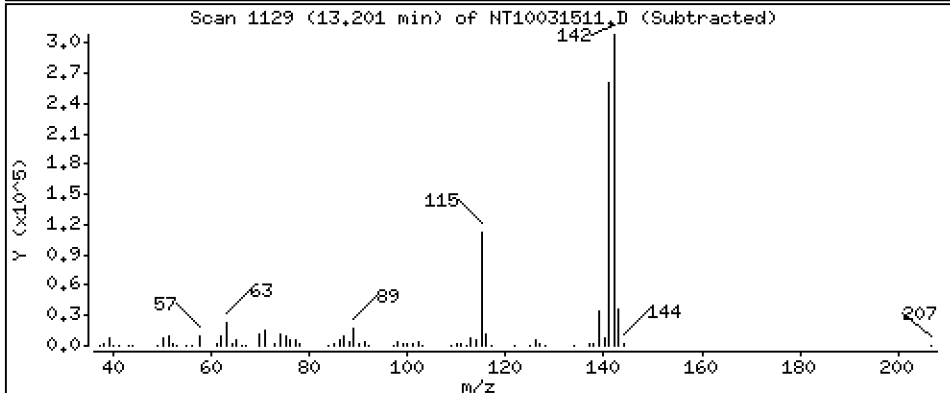
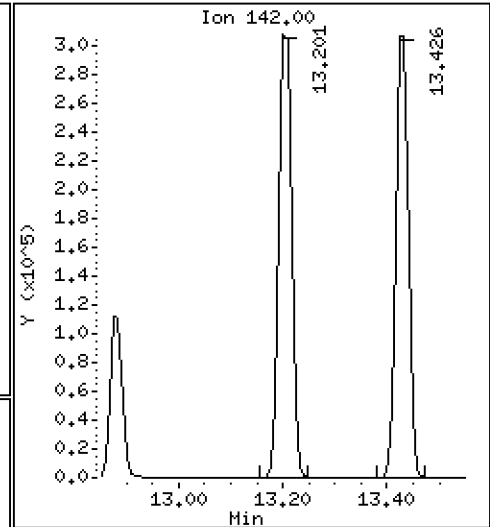
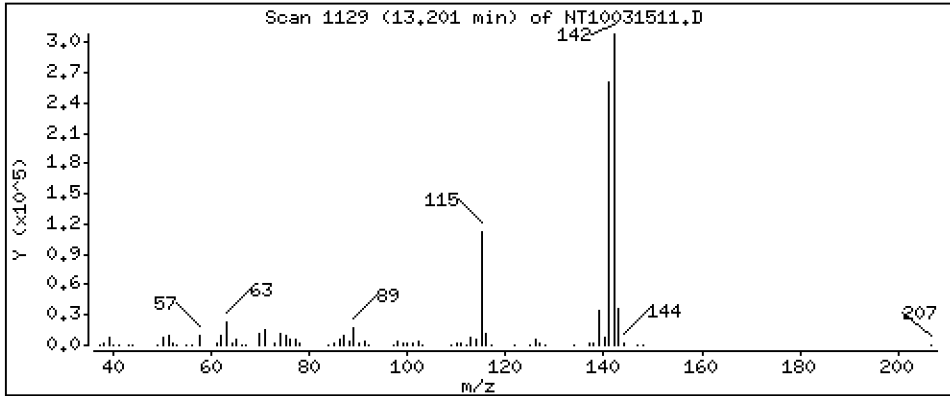
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 4,596 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

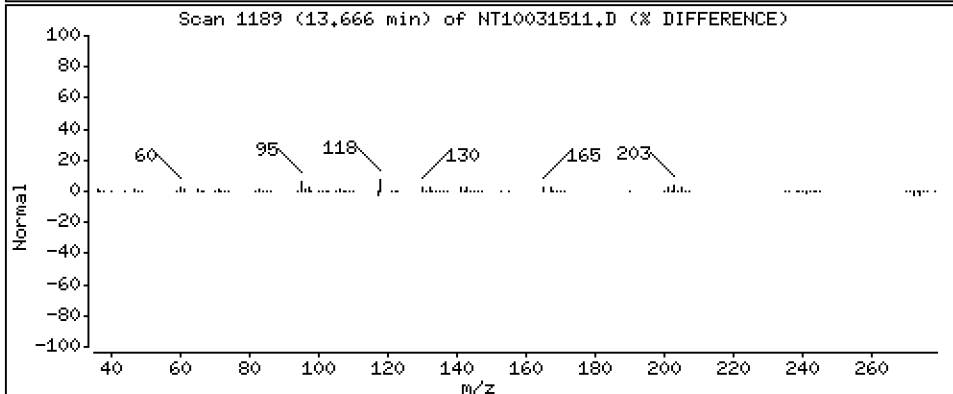
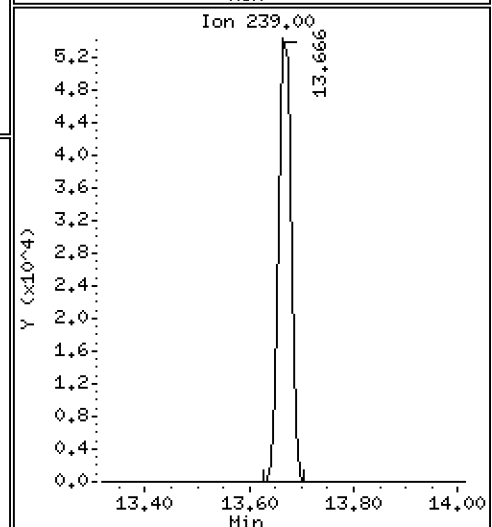
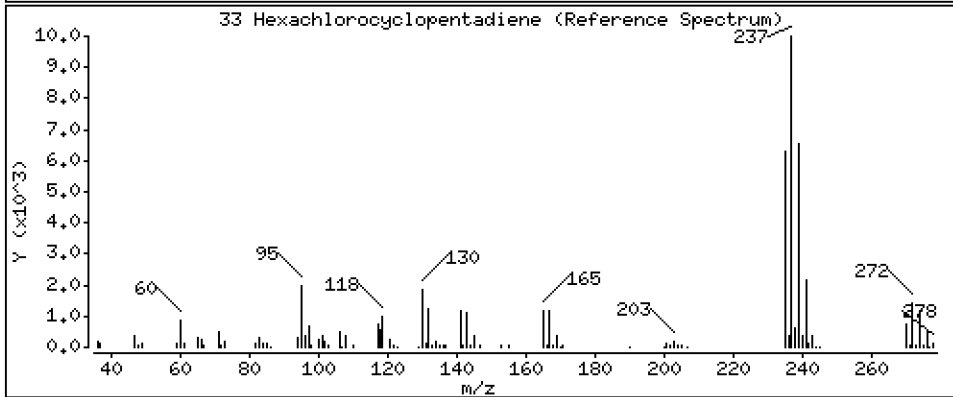
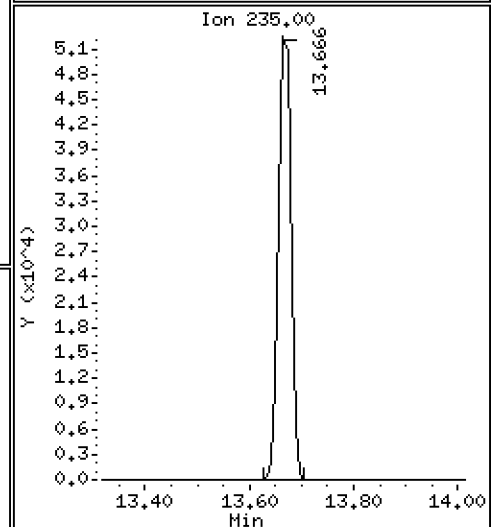
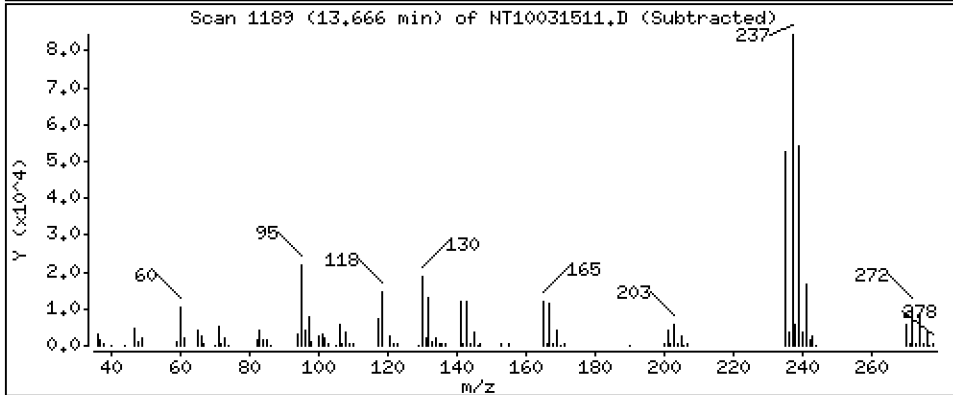
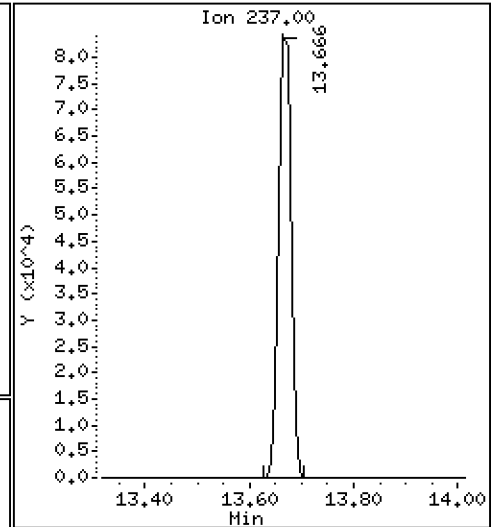
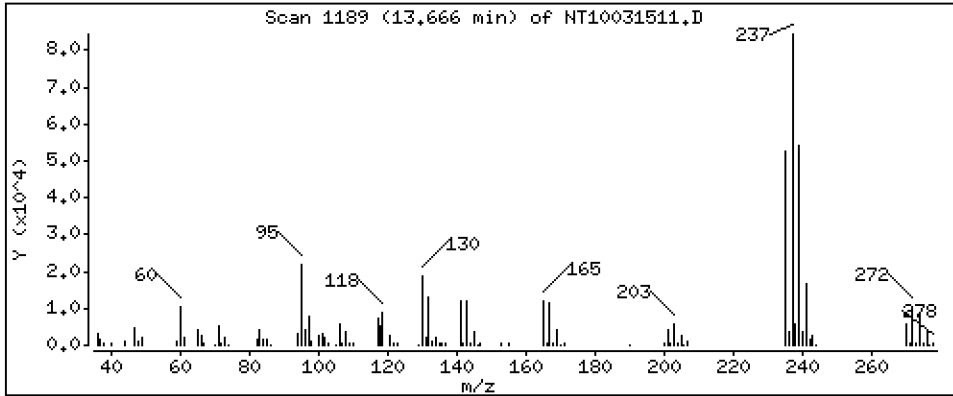
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

33 Hexachlorocyclopentadiene

Concentration: 4.729 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

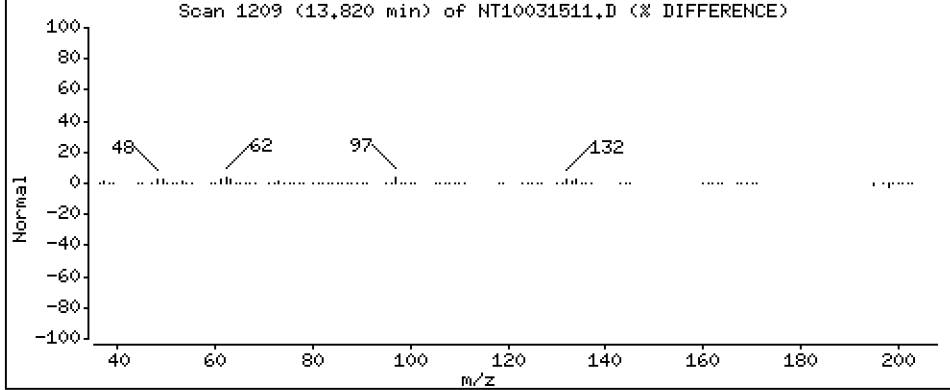
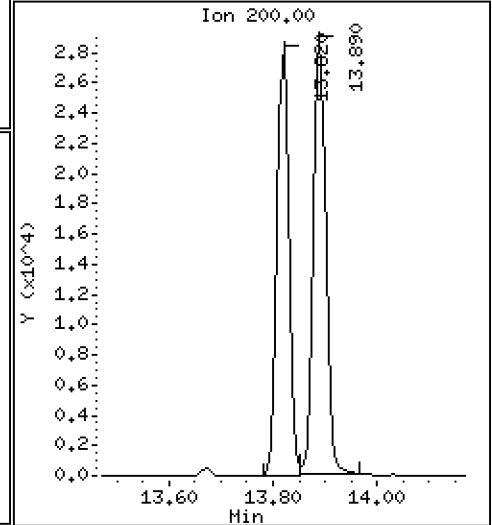
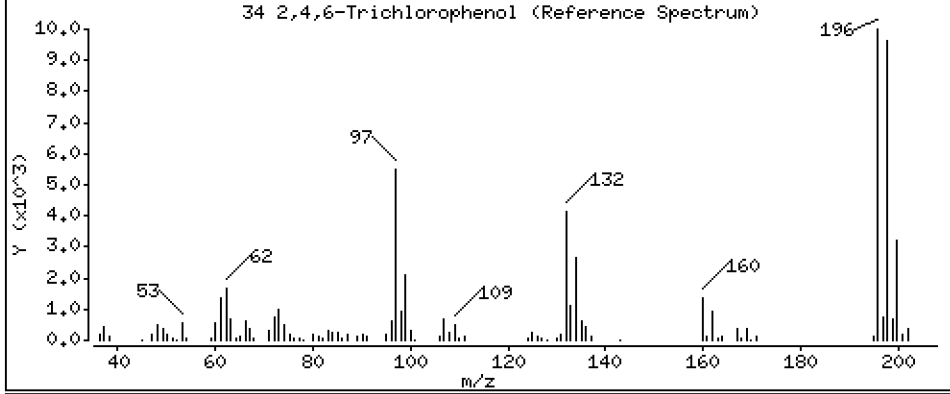
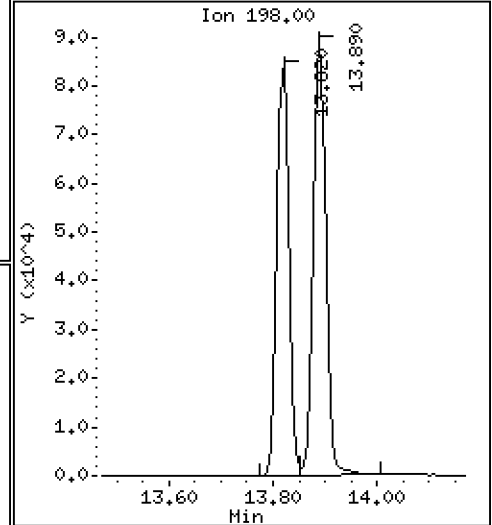
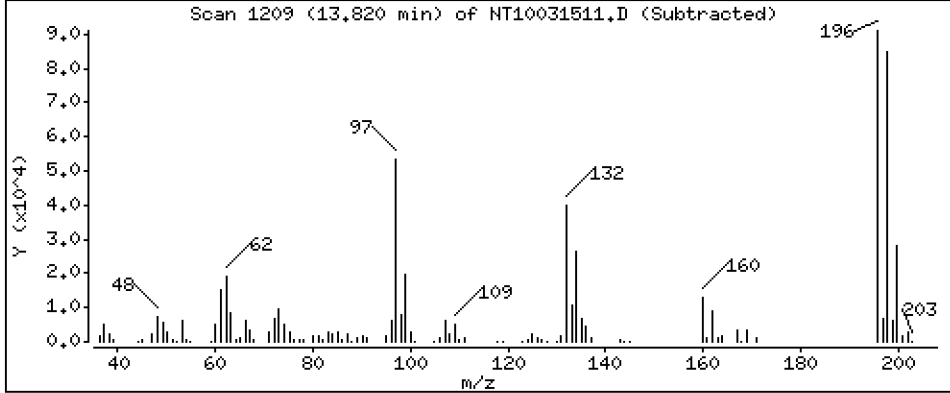
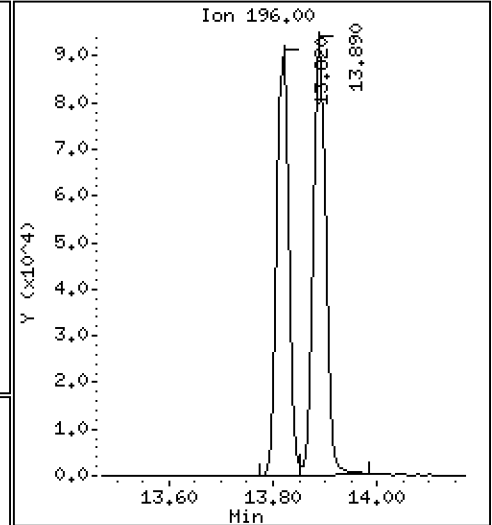
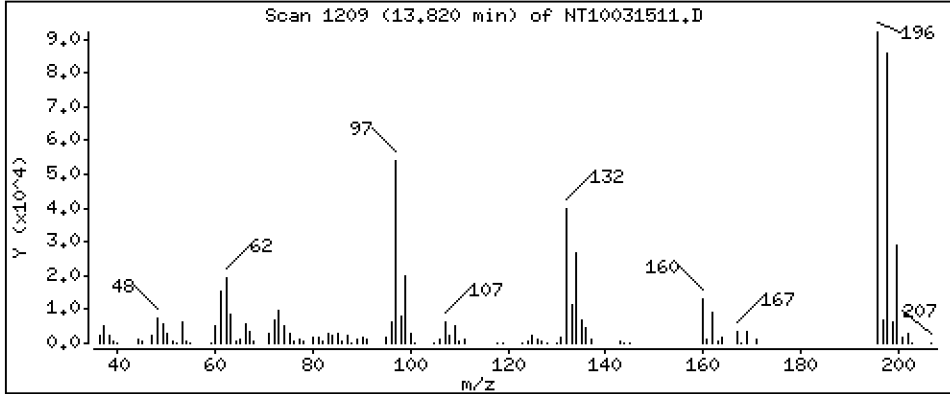
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

34 2,4,6-Trichlorophenol

Concentration: 4,596 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

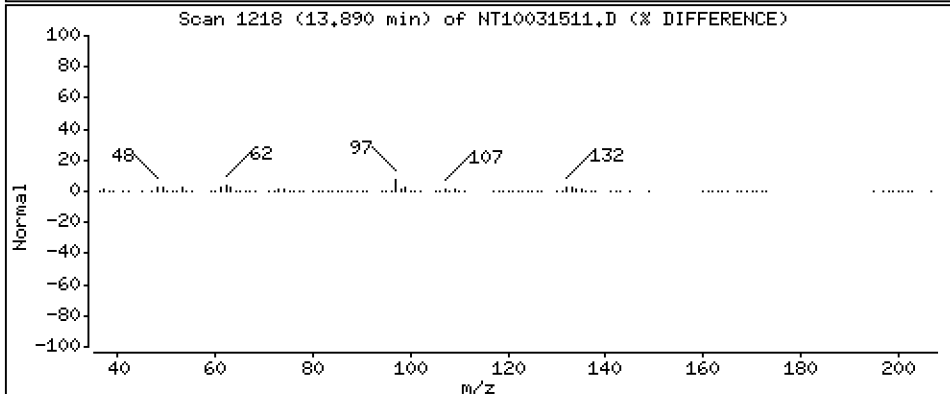
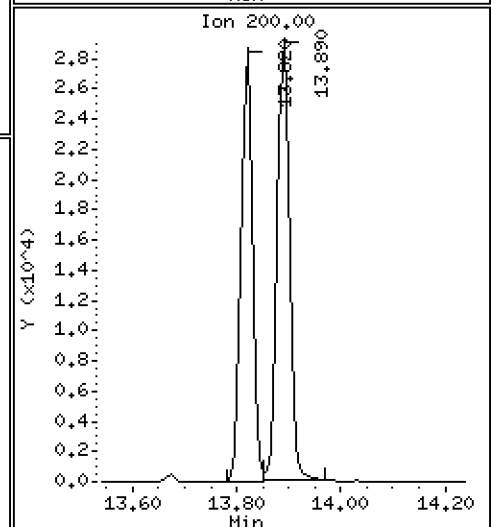
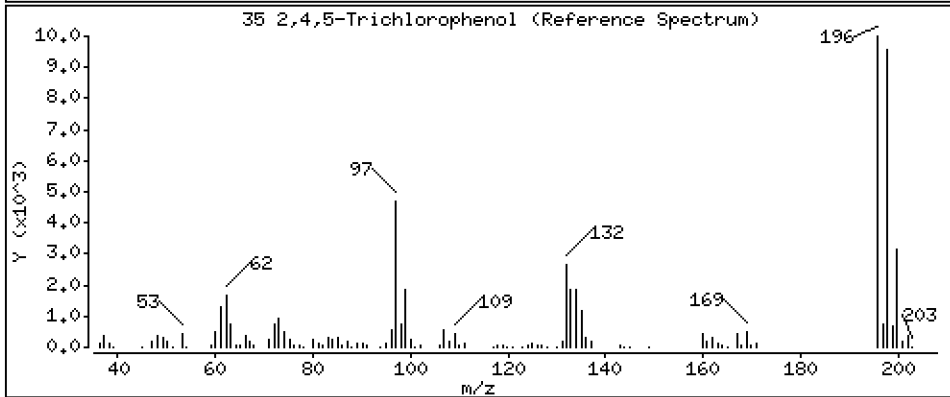
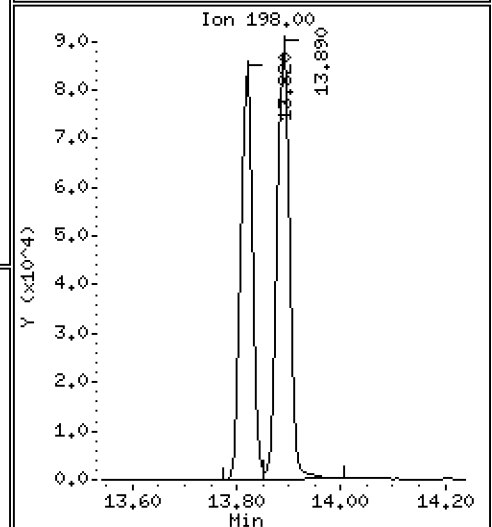
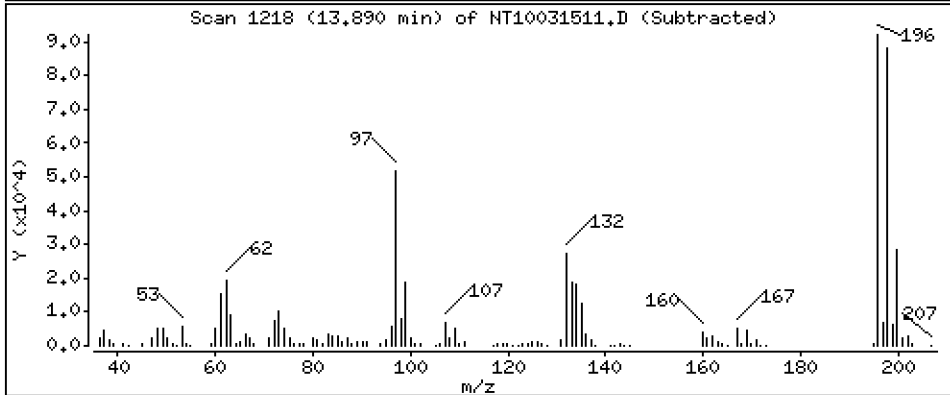
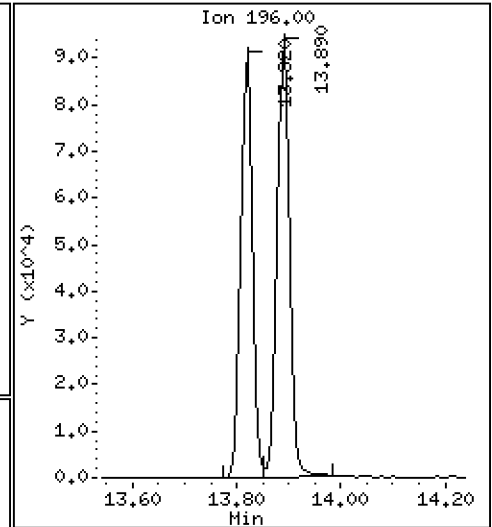
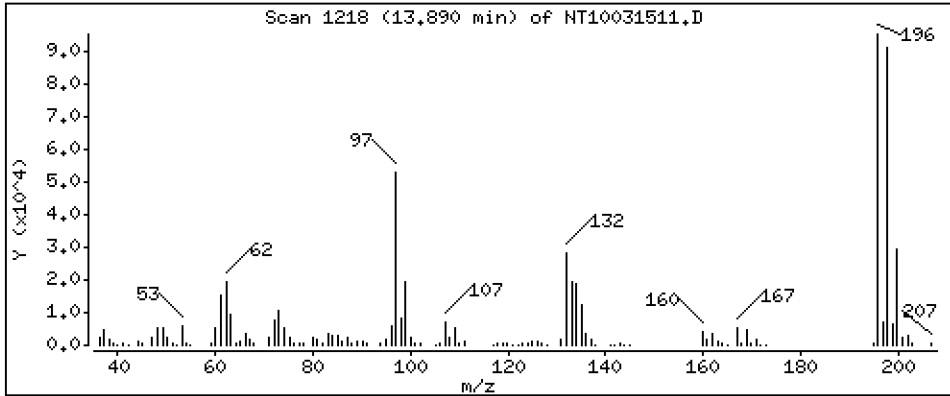
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

35 2,4,5-Trichlorophenol

Concentration: 4,409 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

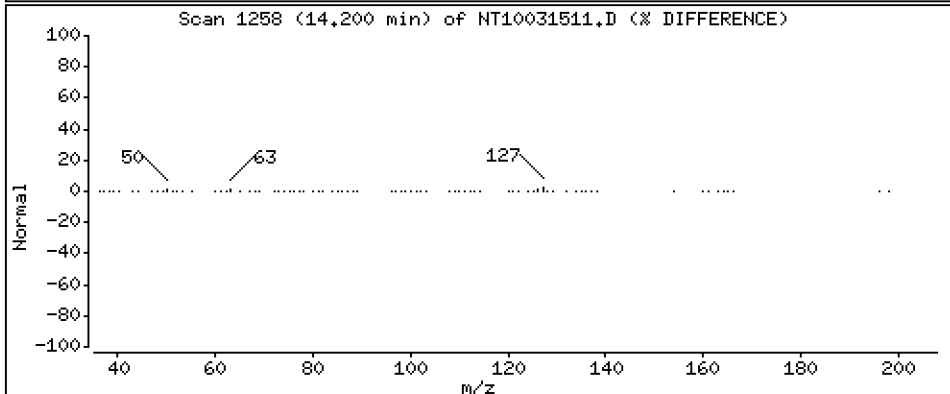
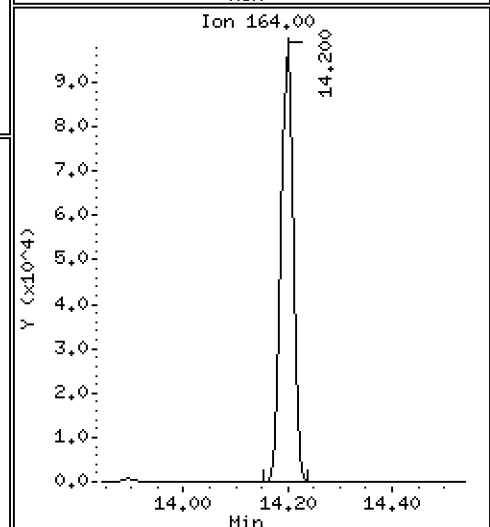
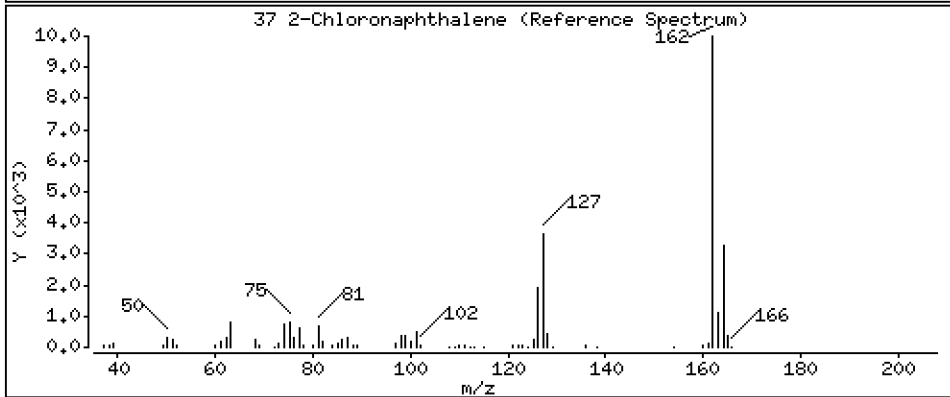
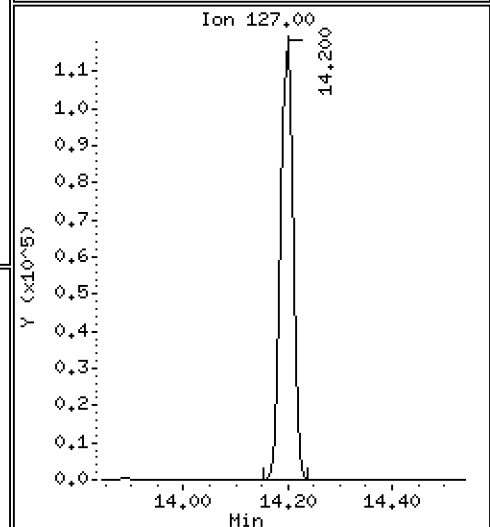
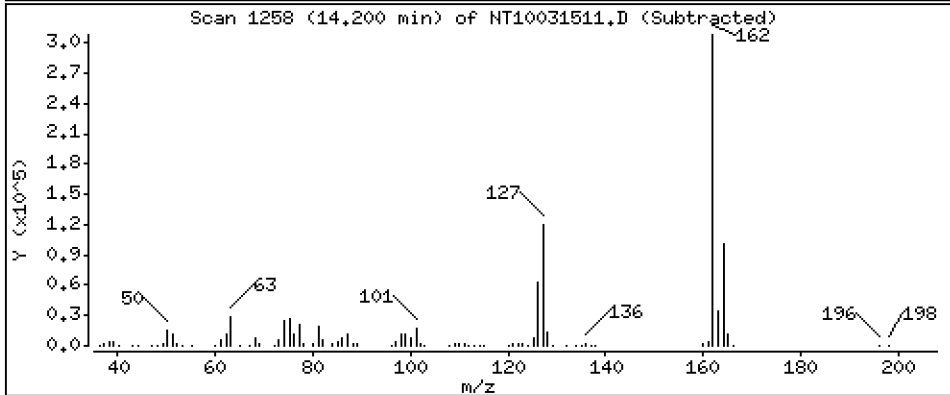
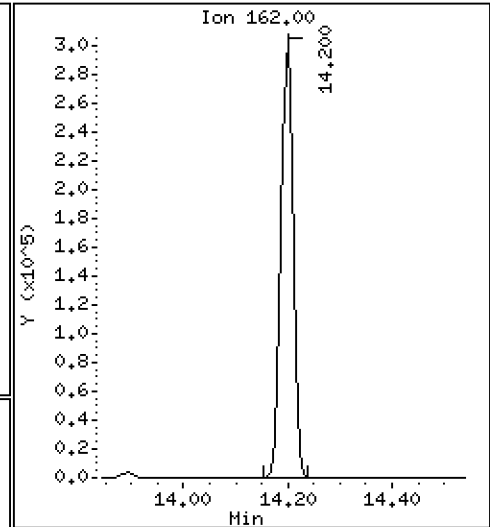
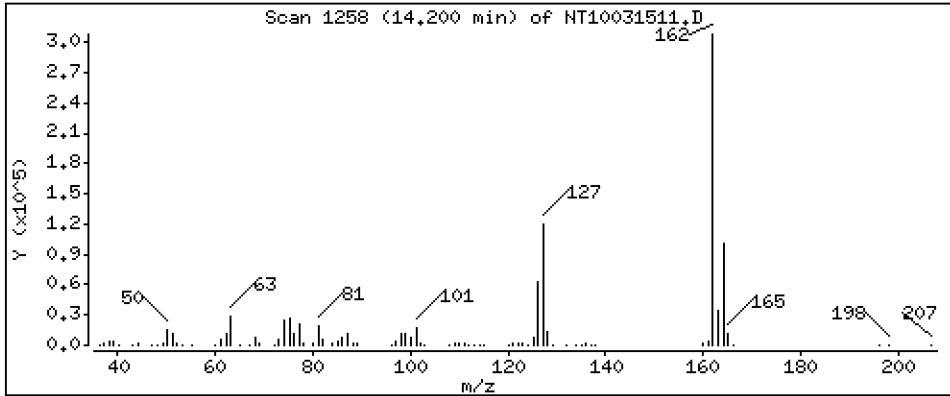
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

37 2-Chloronaphthalene

Concentration: 4,796 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

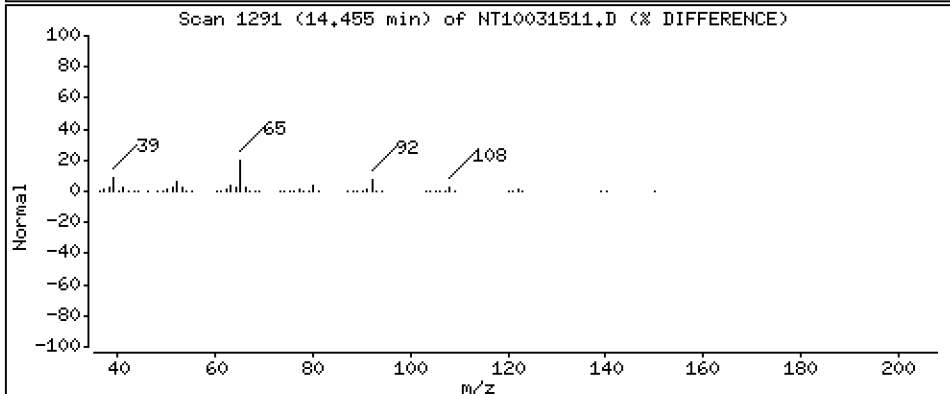
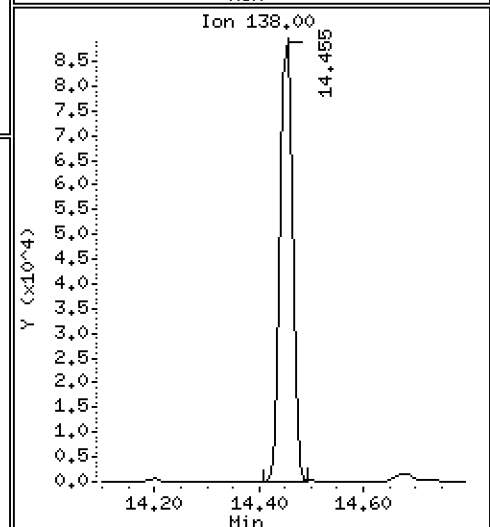
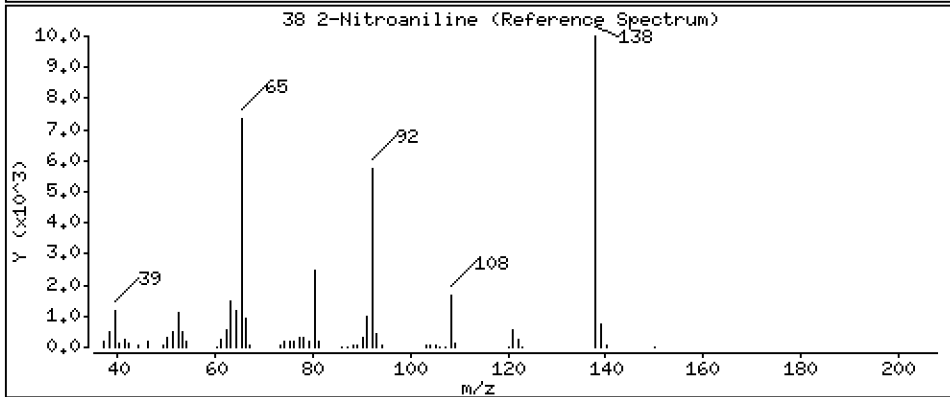
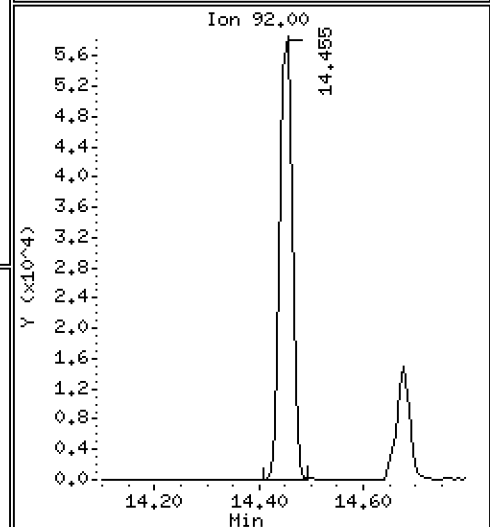
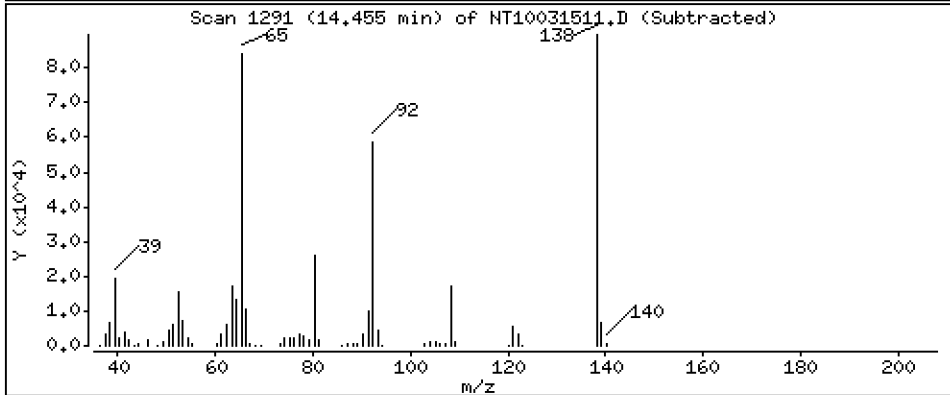
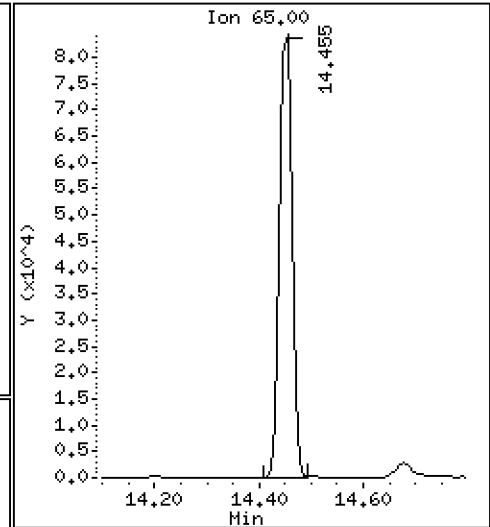
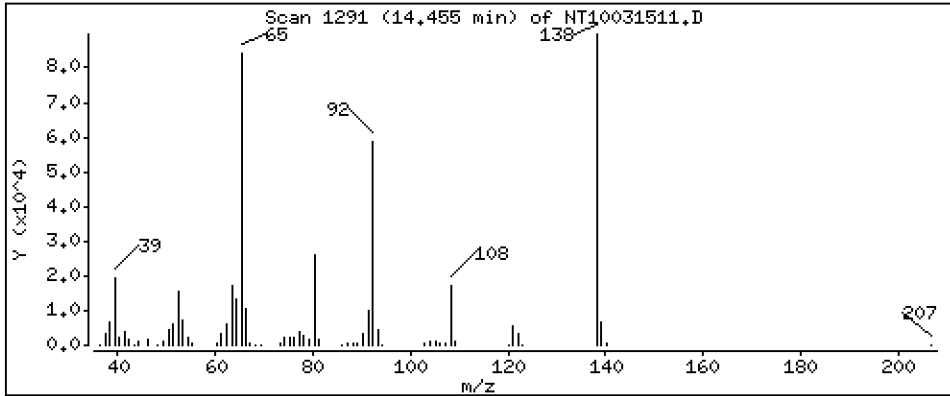
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

38 2-Nitroaniline

Concentration: 4,911 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

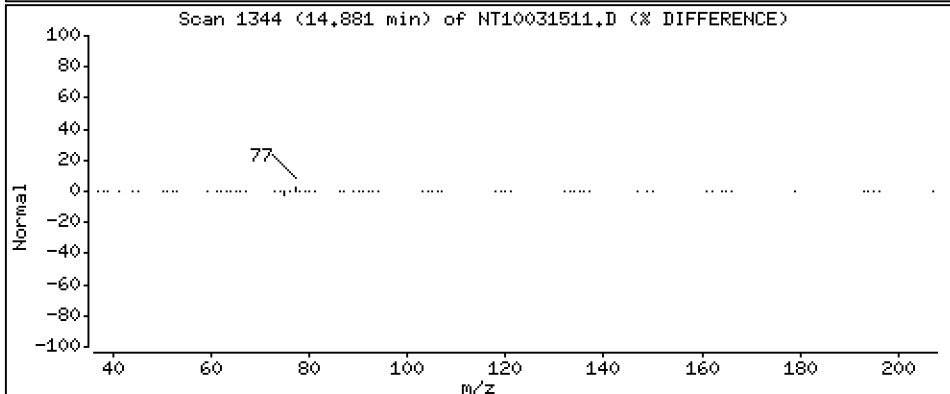
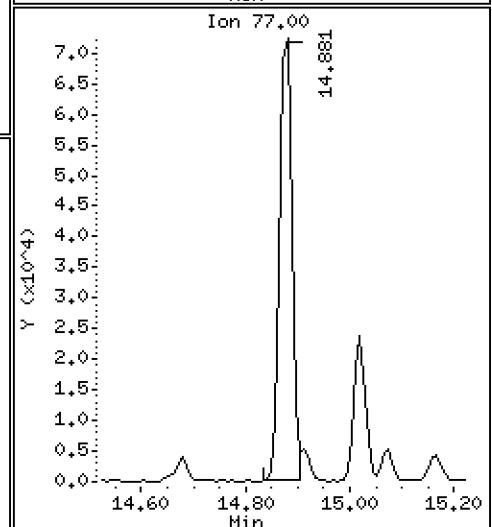
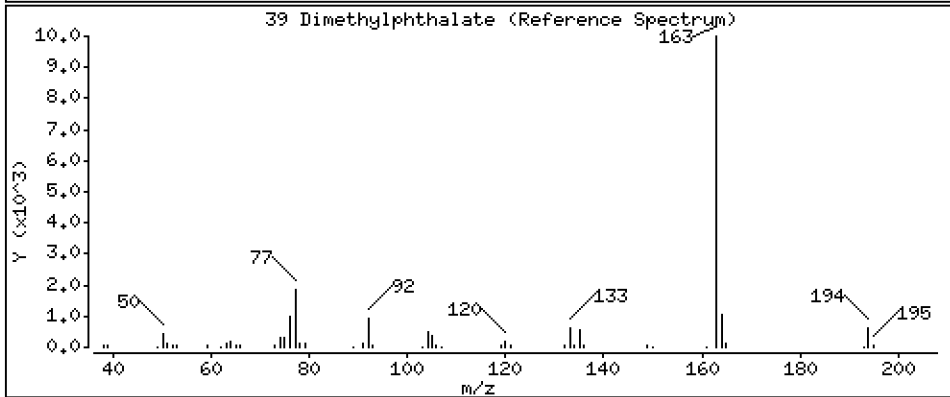
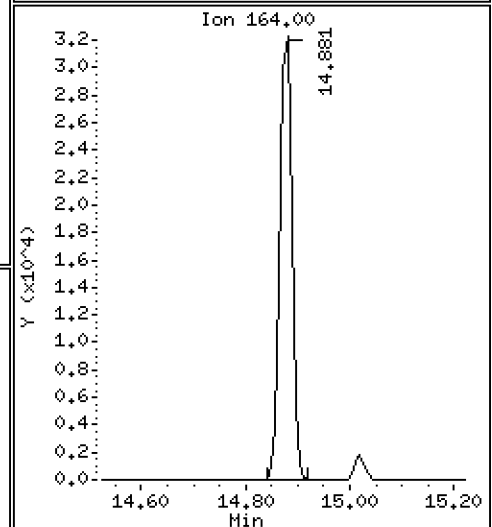
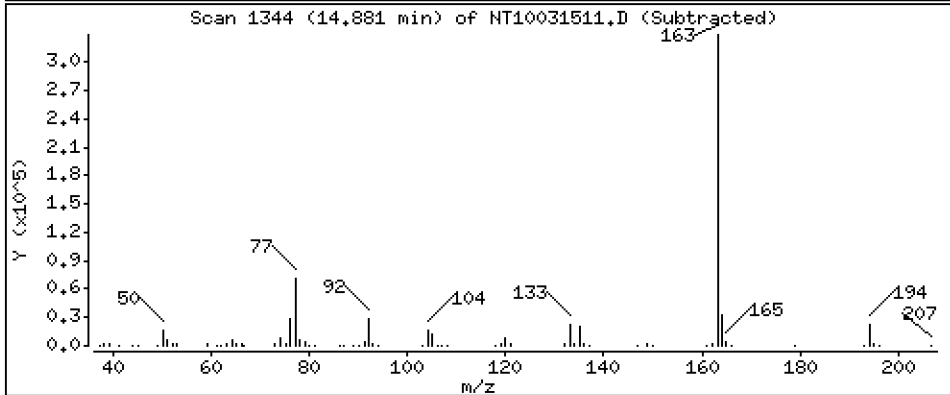
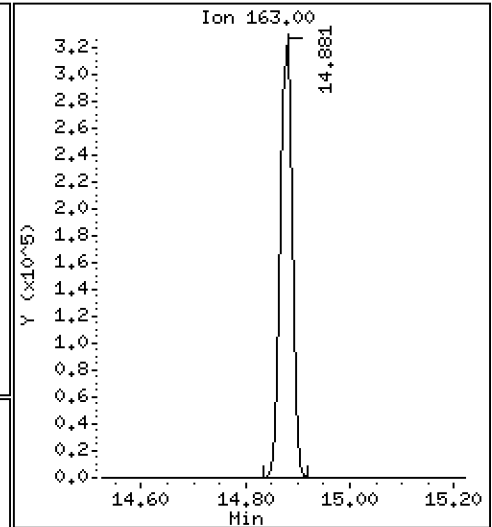
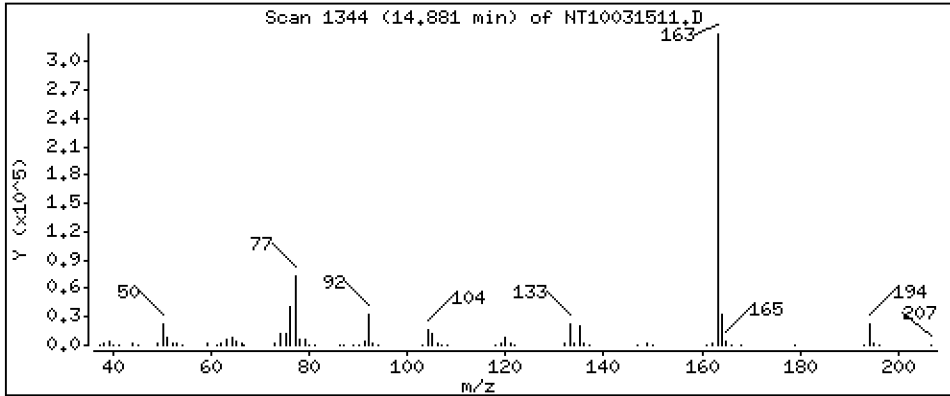
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

39 Dimethylphthalate

Concentration: 4.937 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

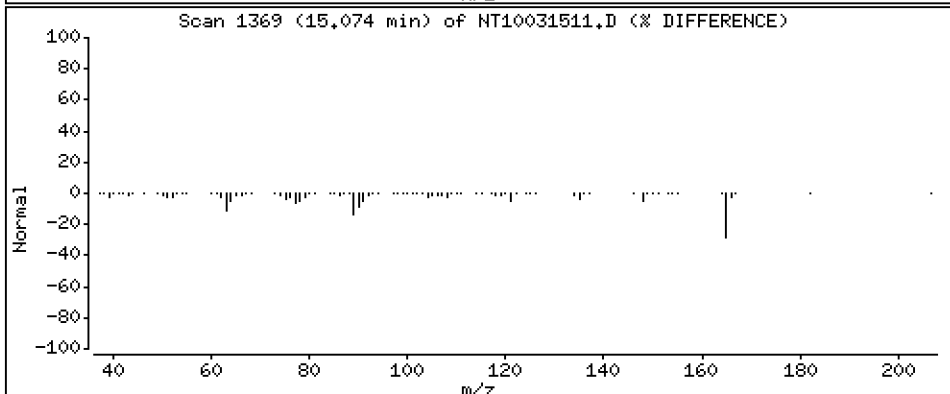
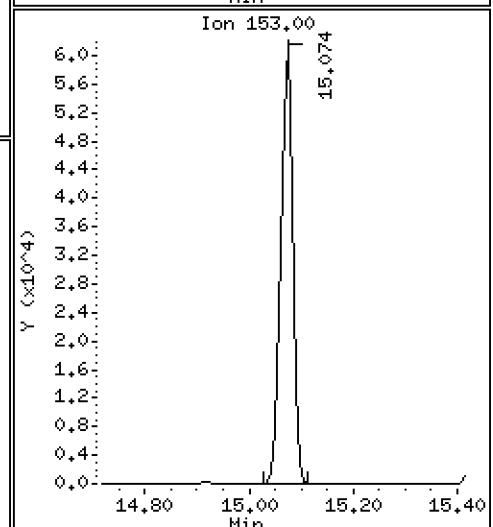
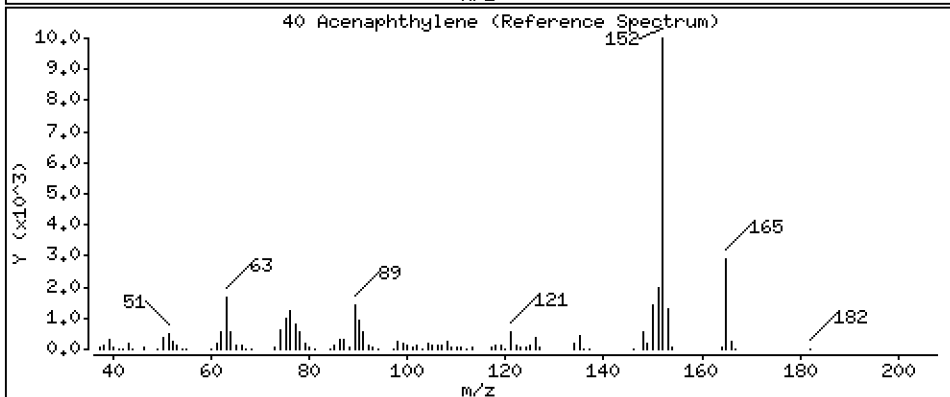
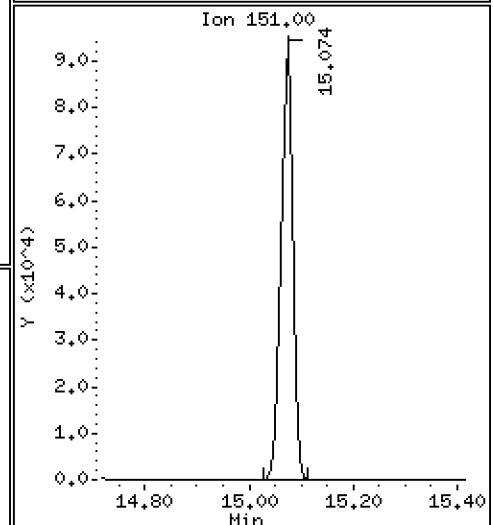
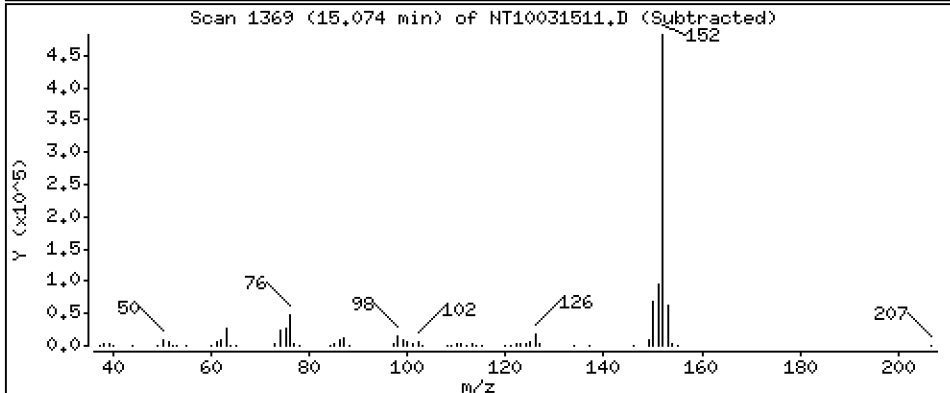
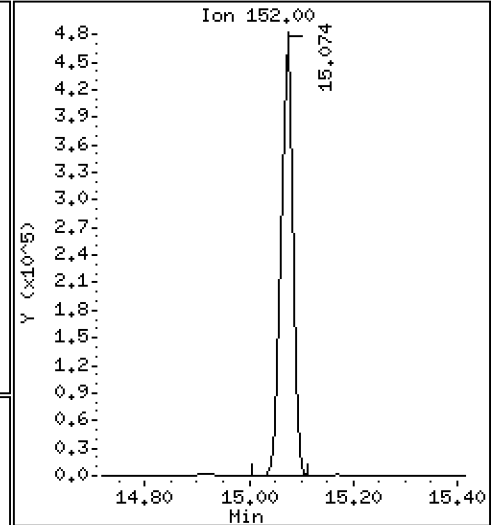
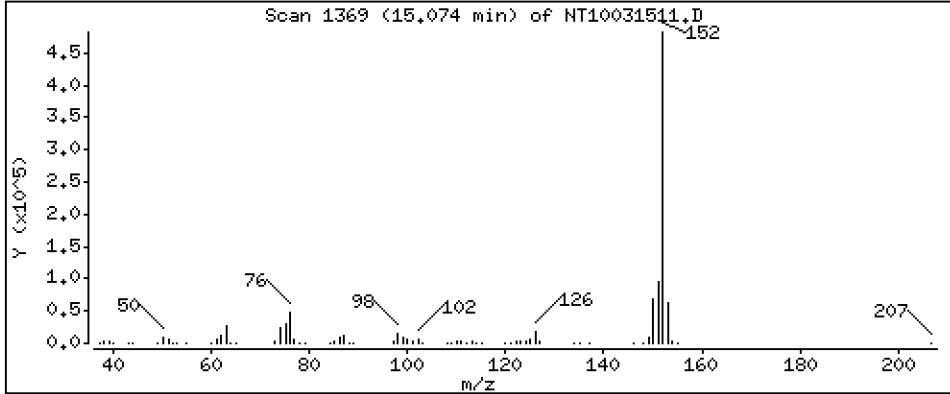
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 4,805 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

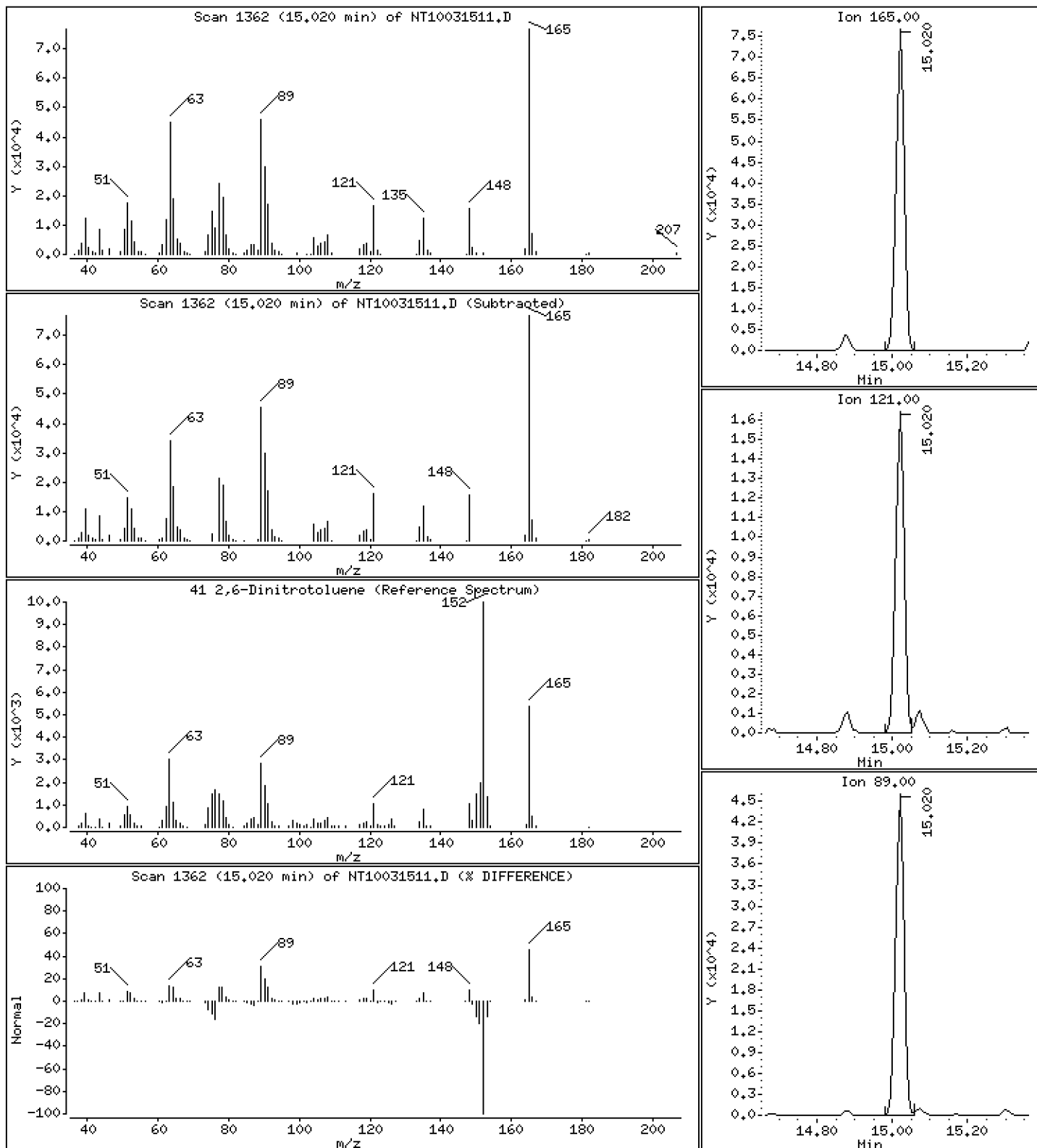
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

41 2,6-Dinitrotoluene

Concentration: 5,298 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

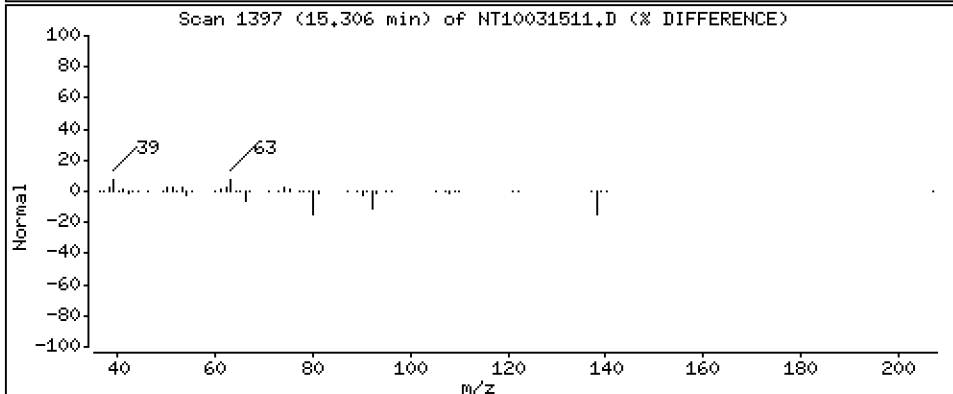
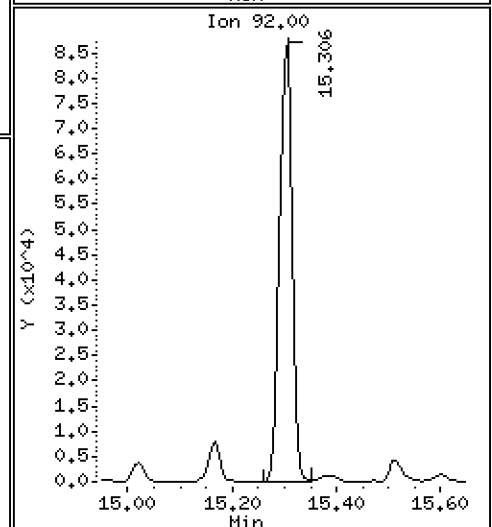
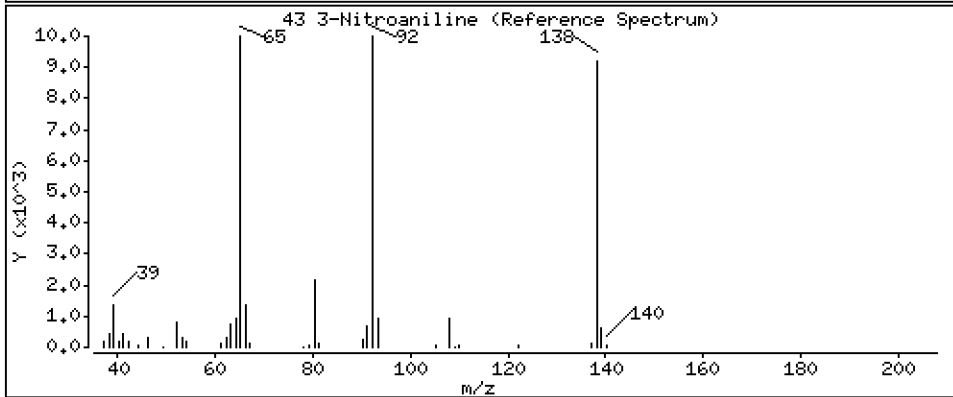
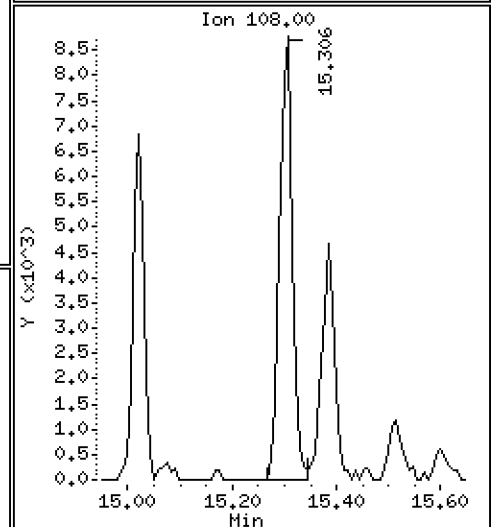
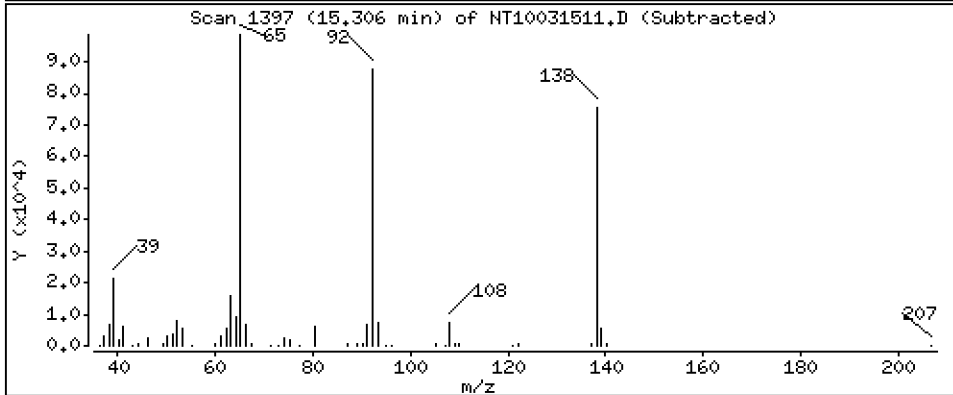
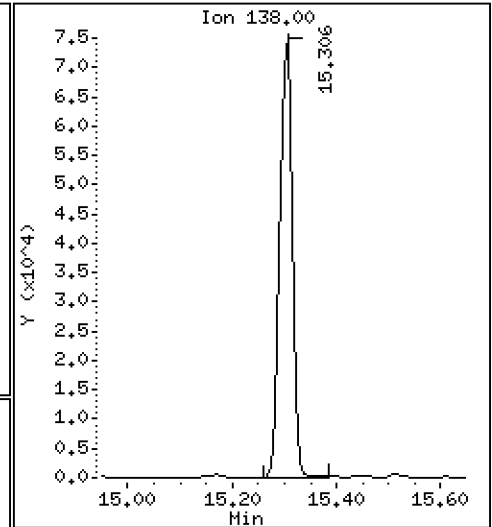
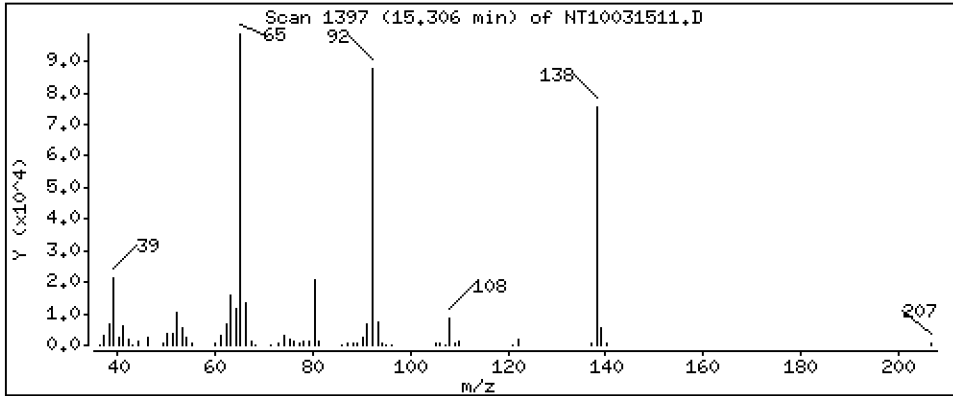
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

43 3-Nitroaniline

Concentration: 5,014 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

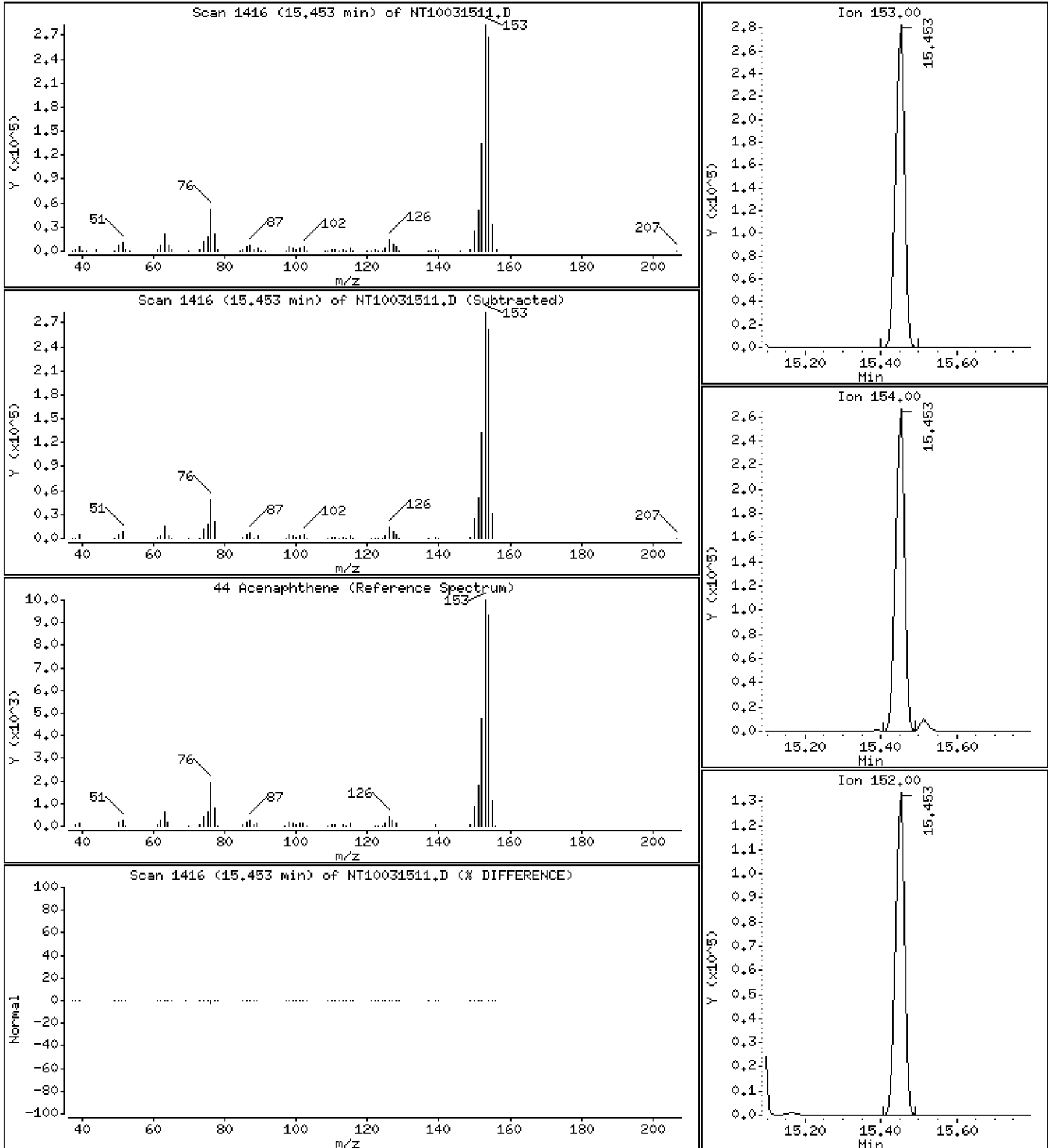
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 4,776 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

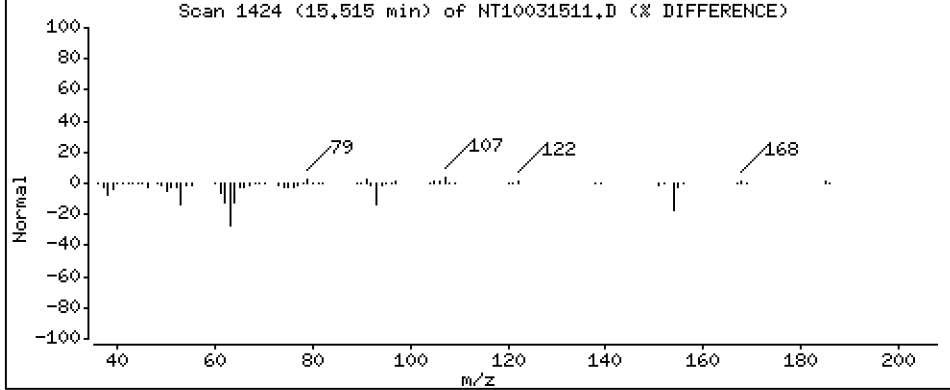
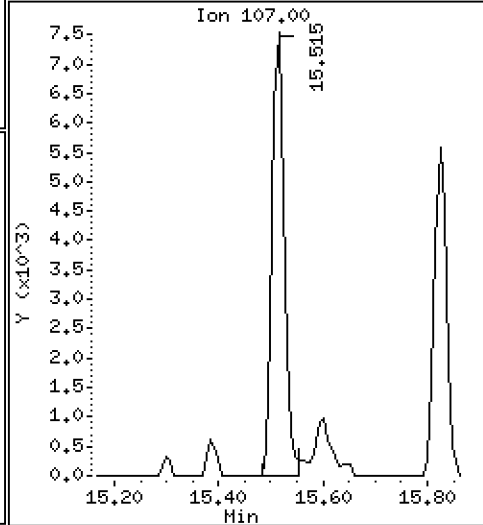
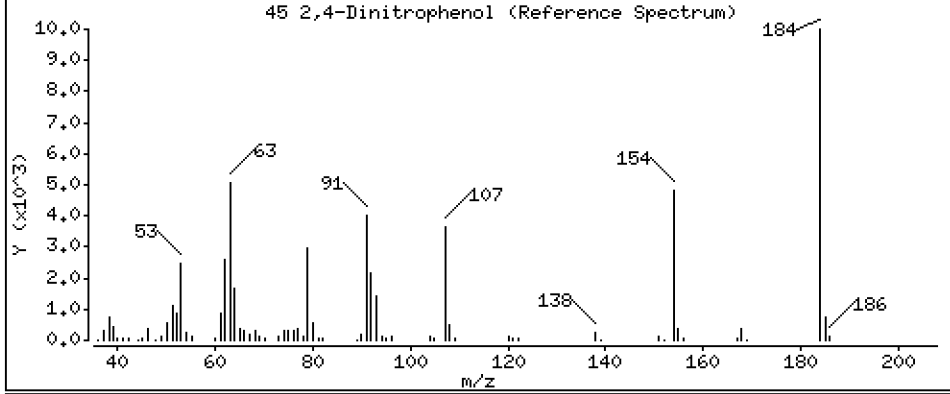
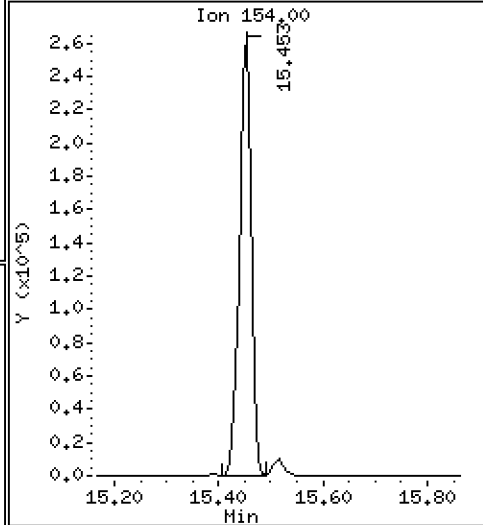
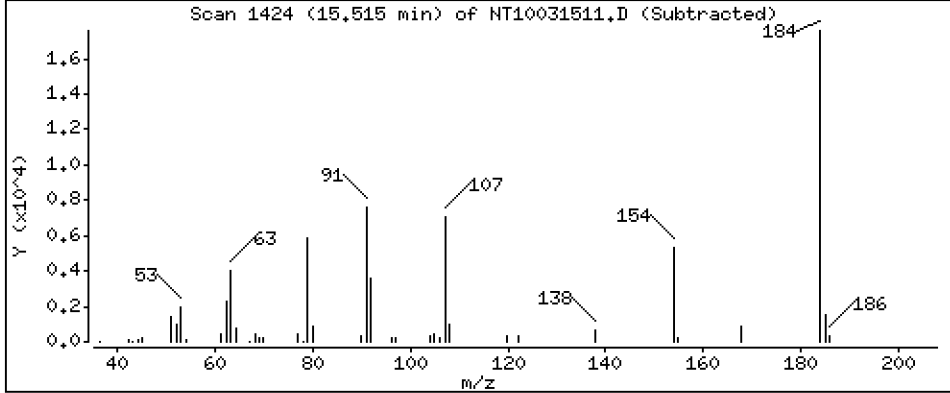
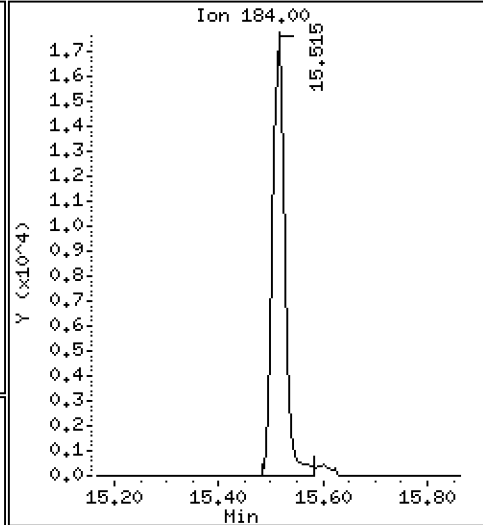
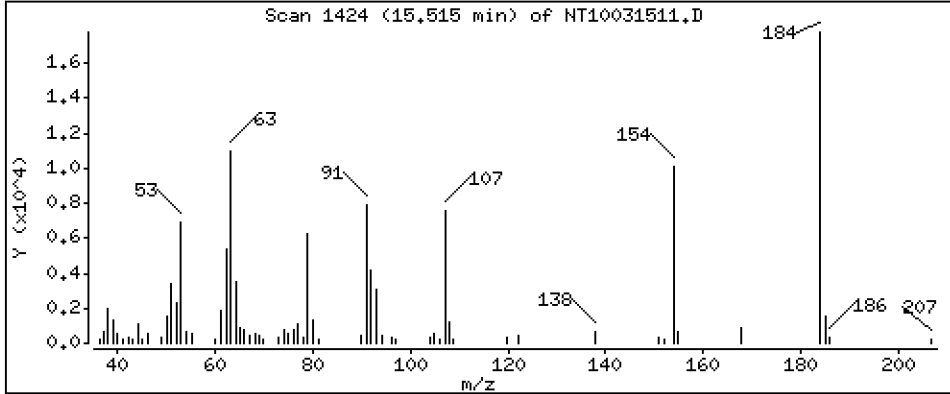
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

45 2,4-Dinitrophenol

Concentration: 2,124 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

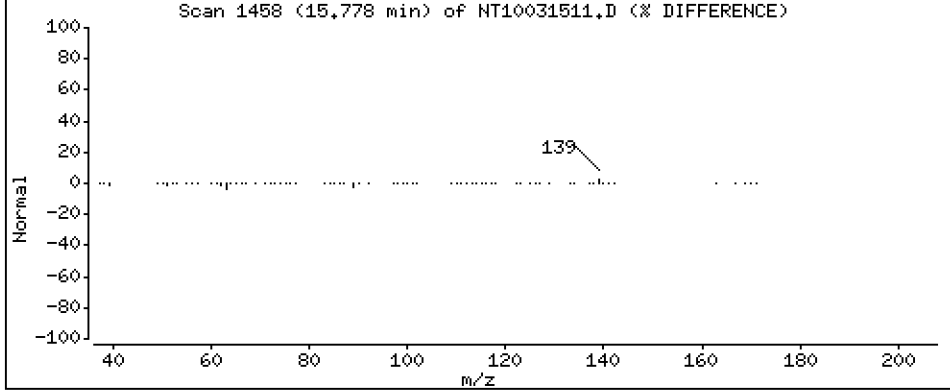
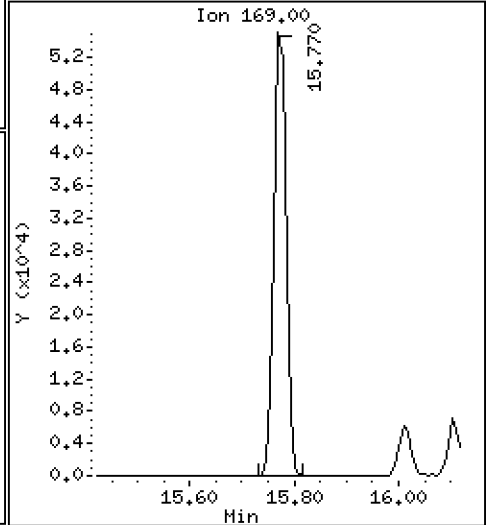
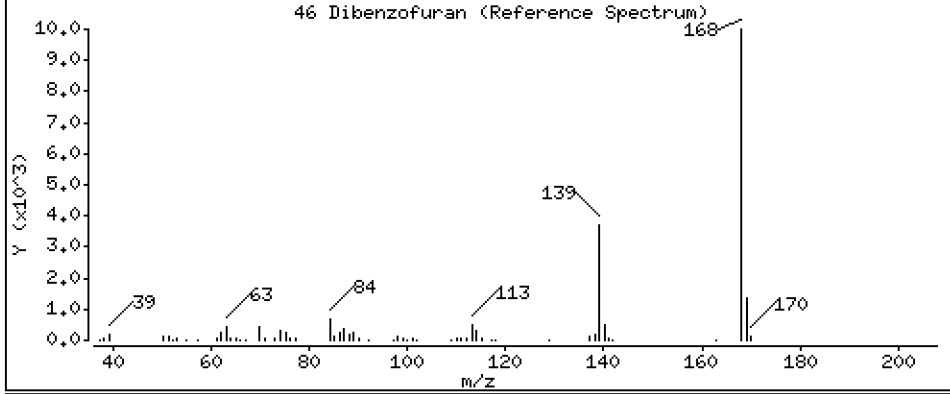
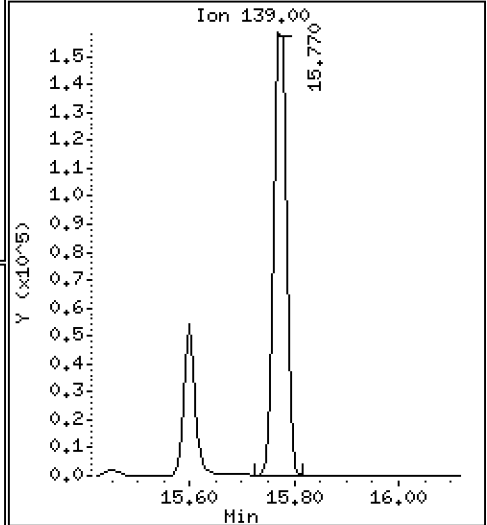
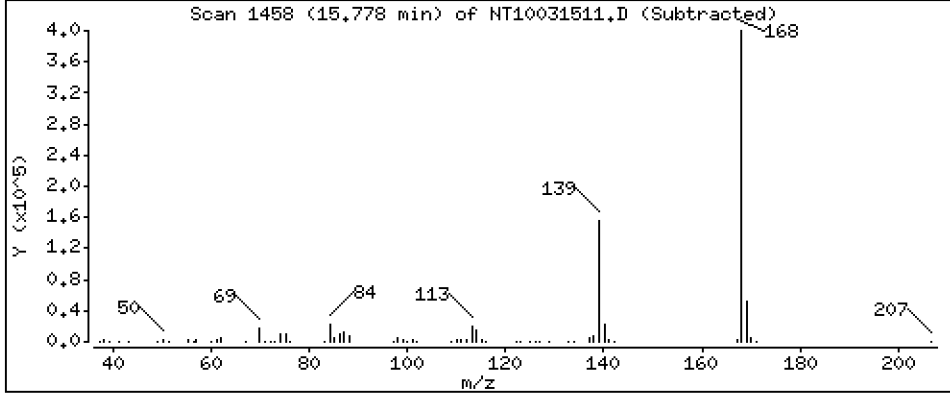
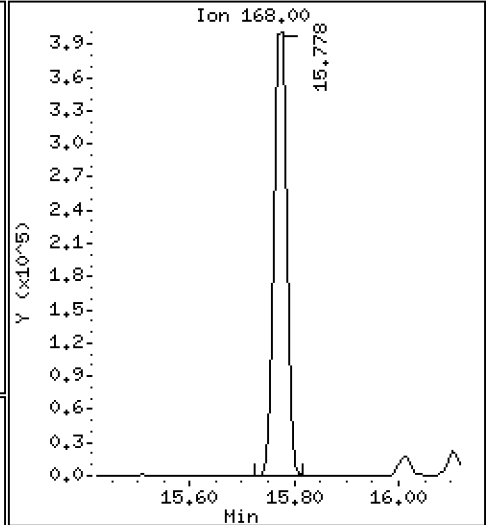
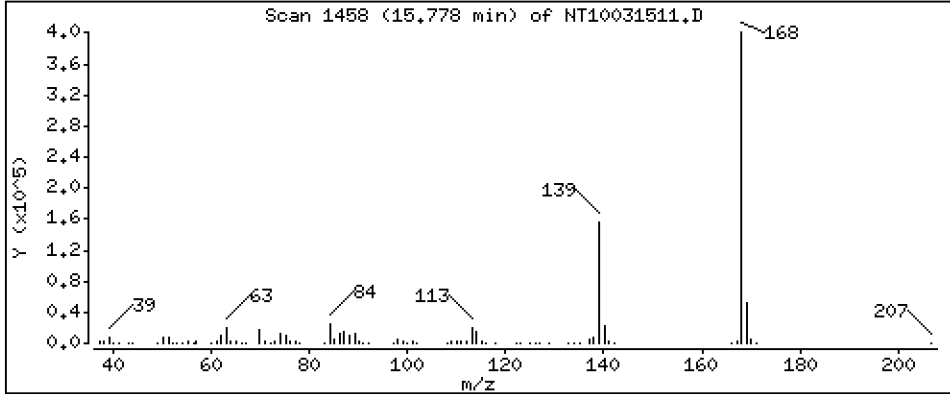
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 4,648 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

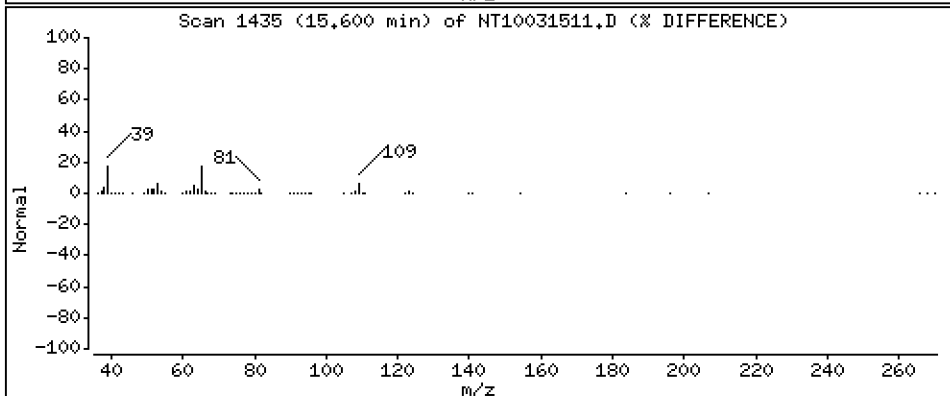
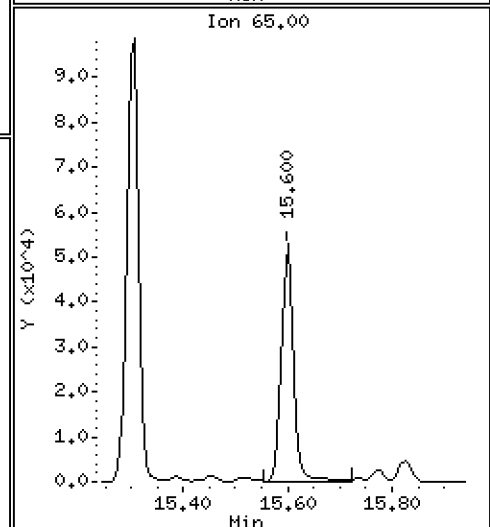
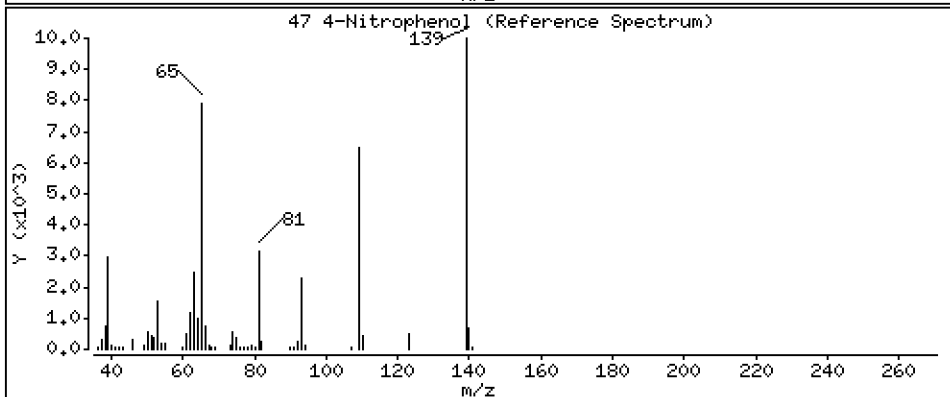
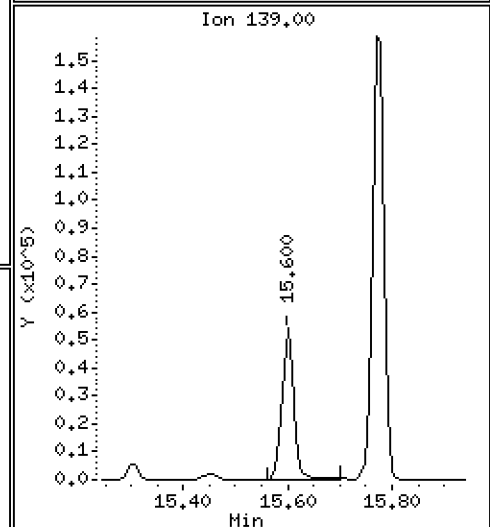
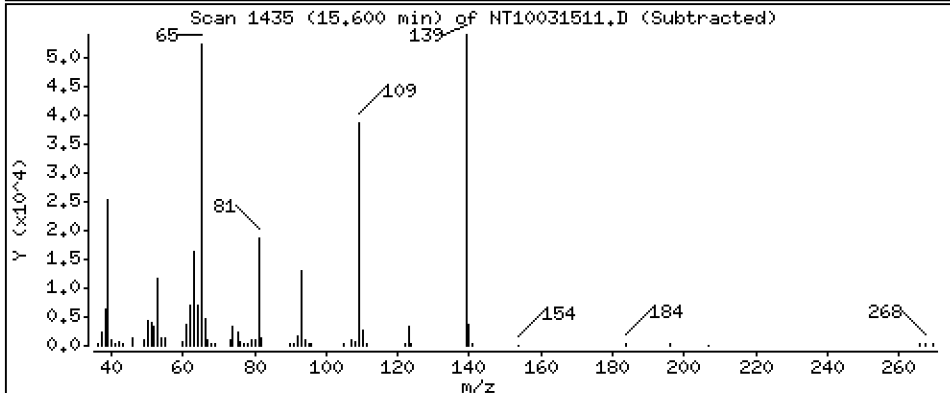
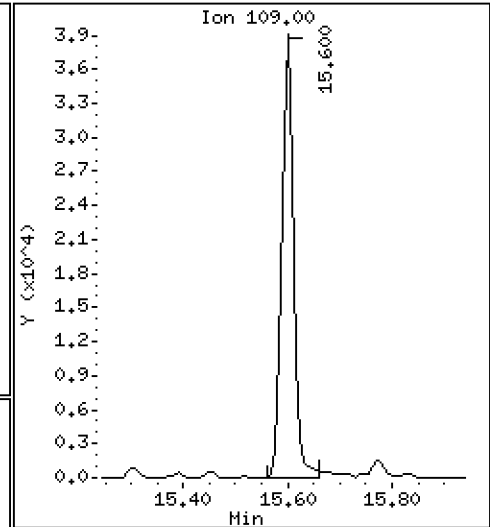
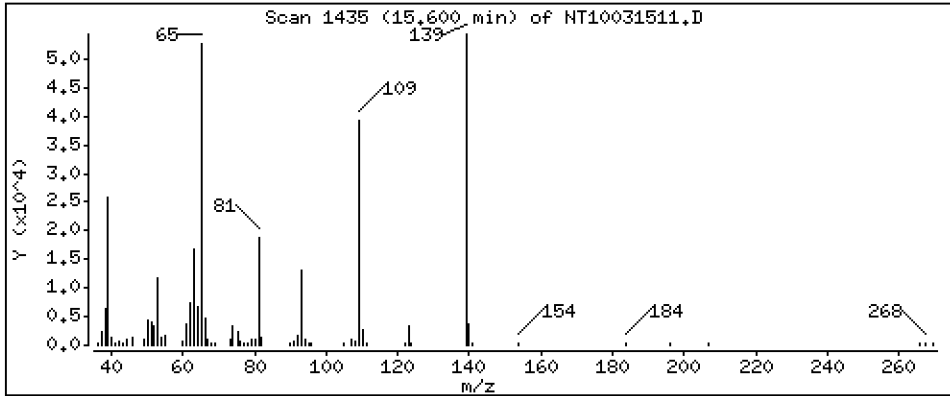
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

47 4-Nitrophenol

Concentration: 3,966 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

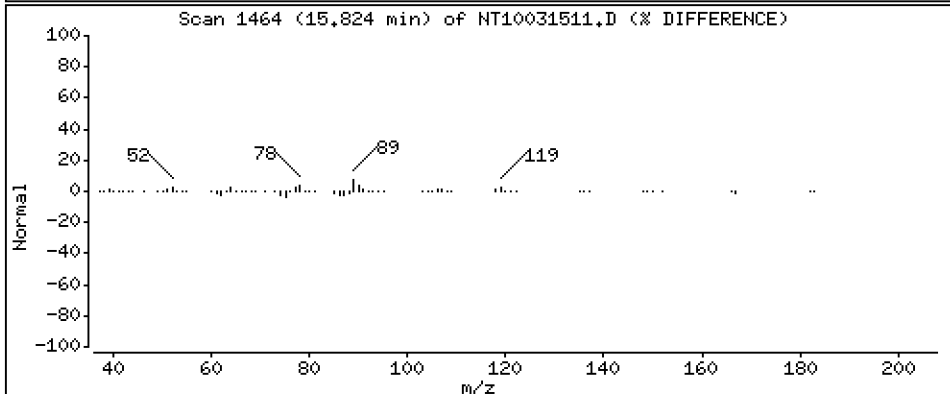
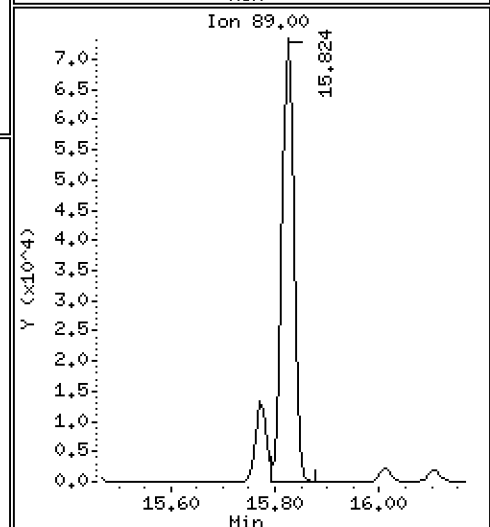
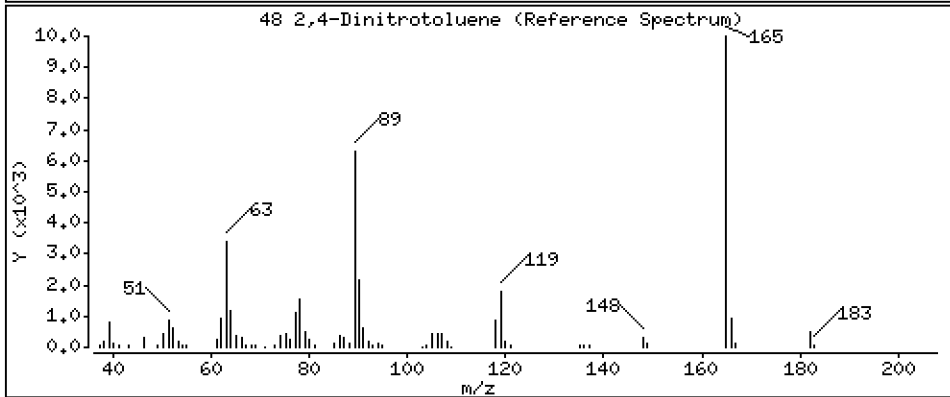
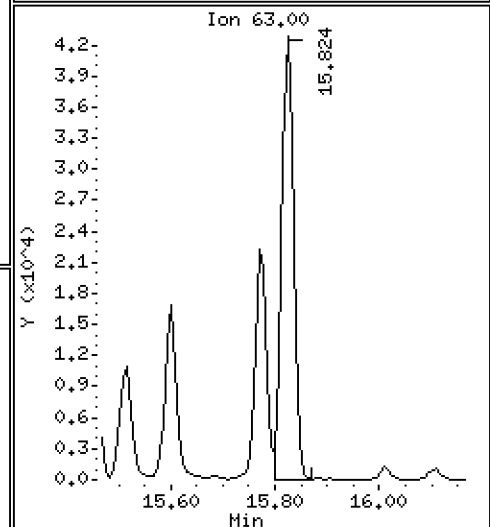
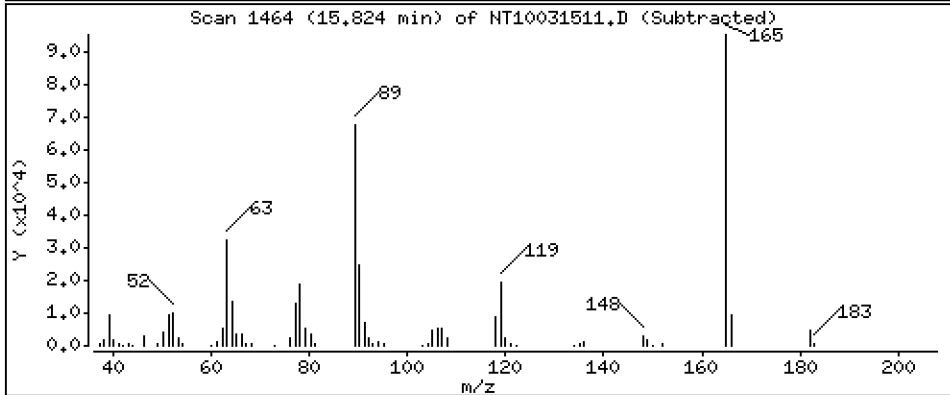
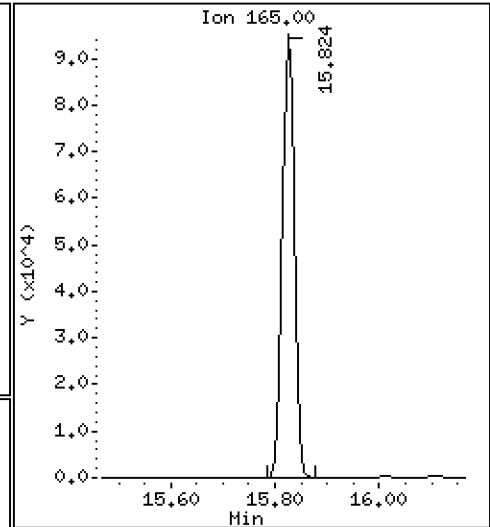
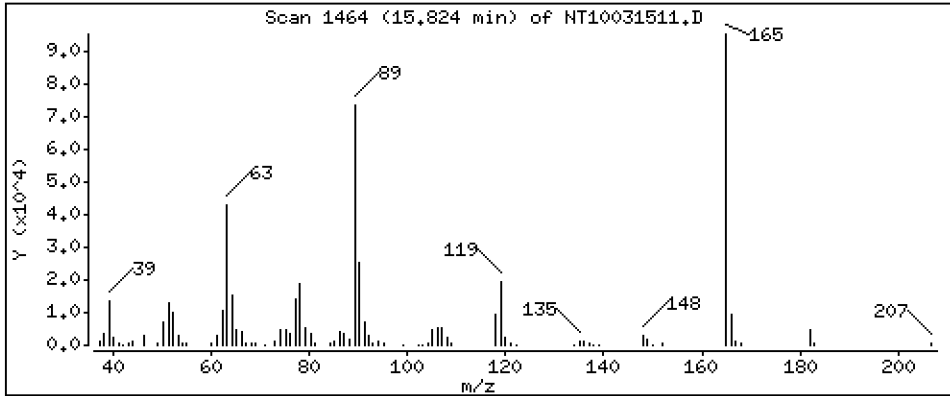
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

48 2,4-Dinitrotoluene

Concentration: 4,510 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

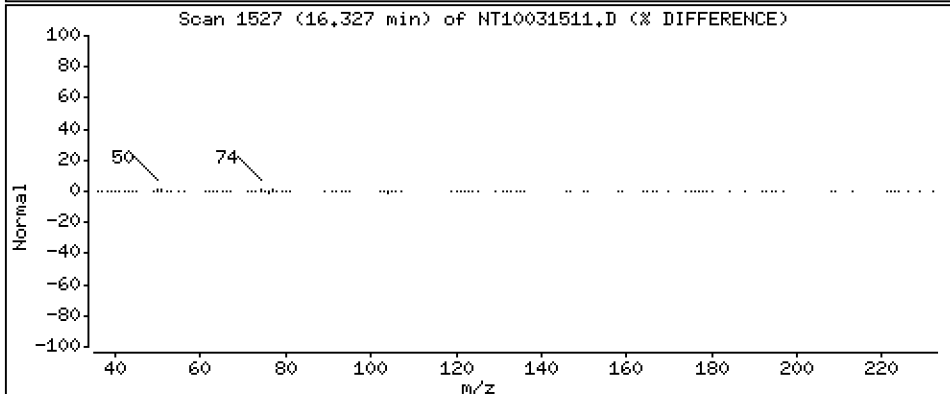
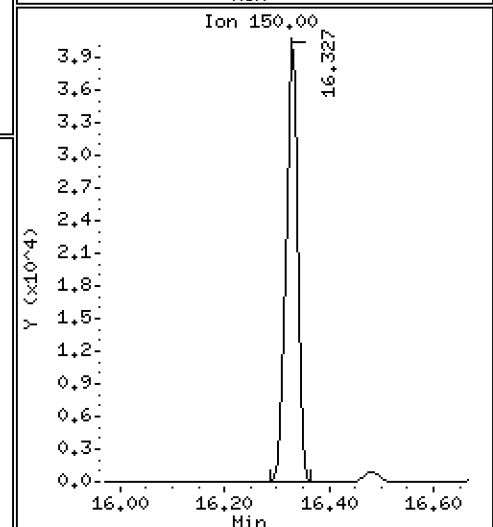
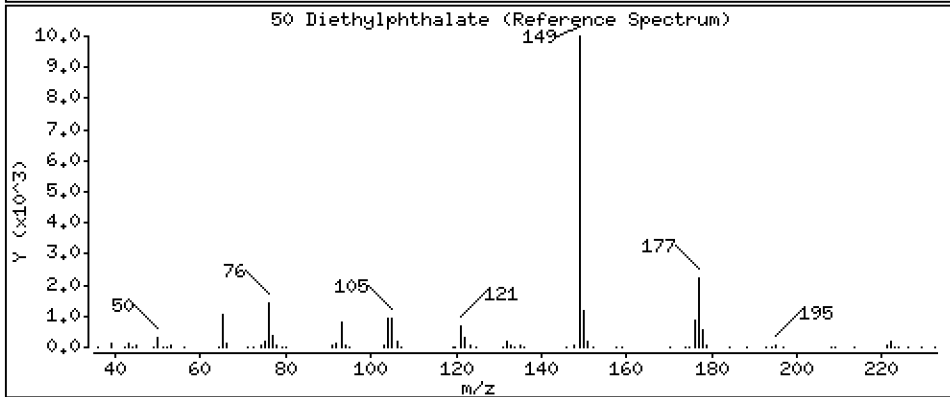
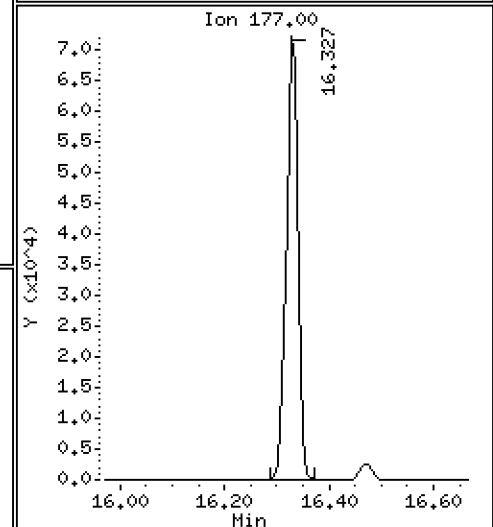
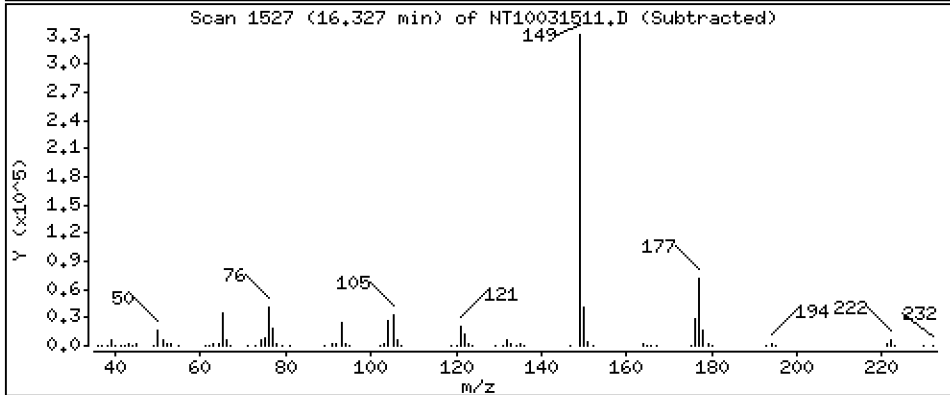
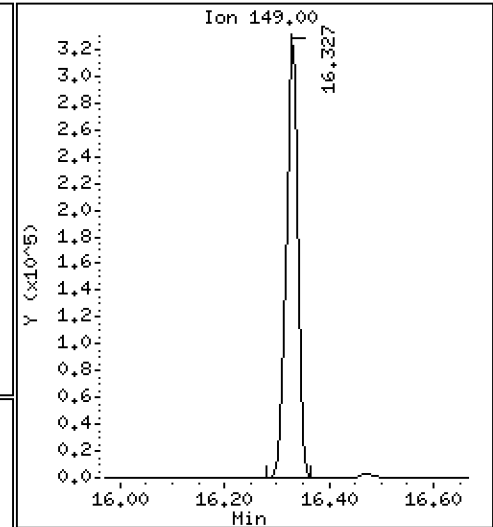
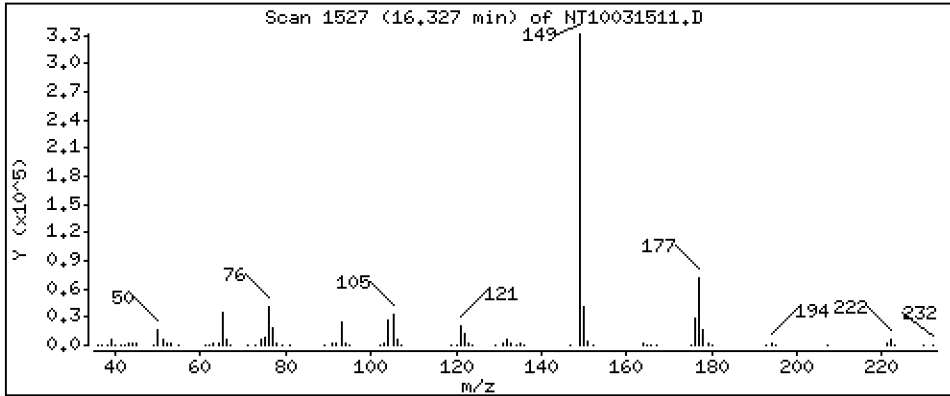
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 5,209 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

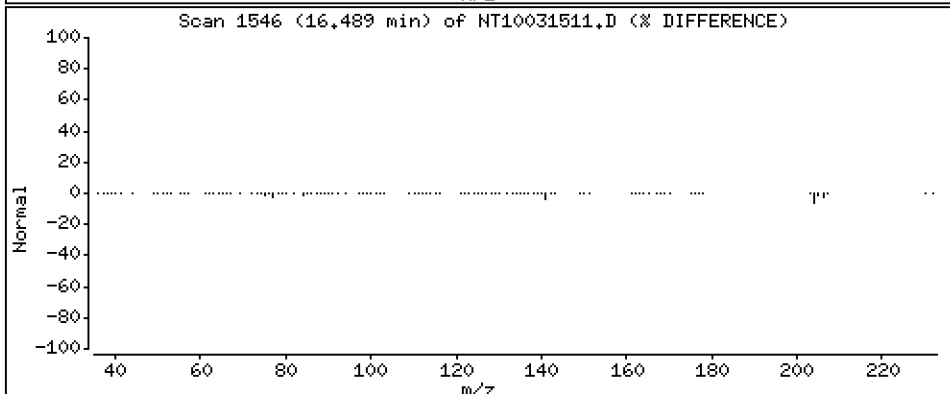
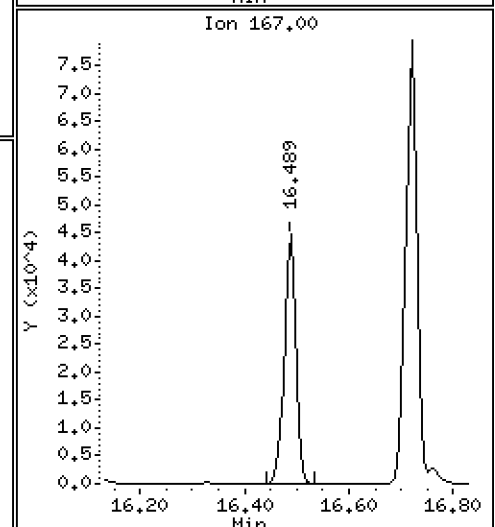
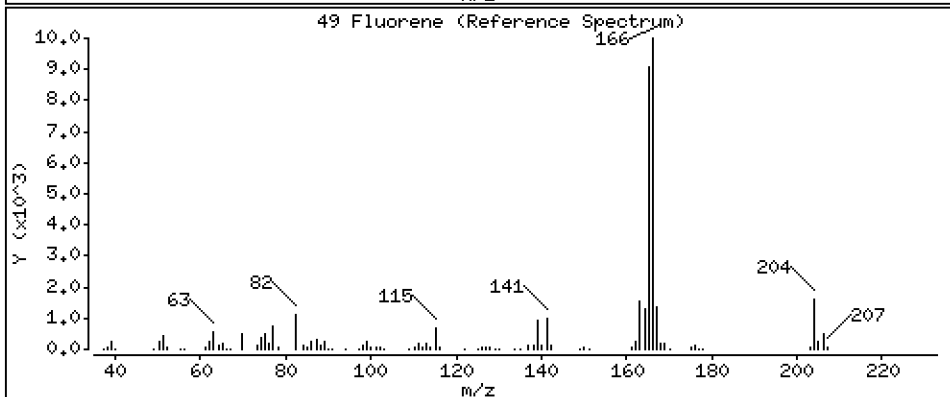
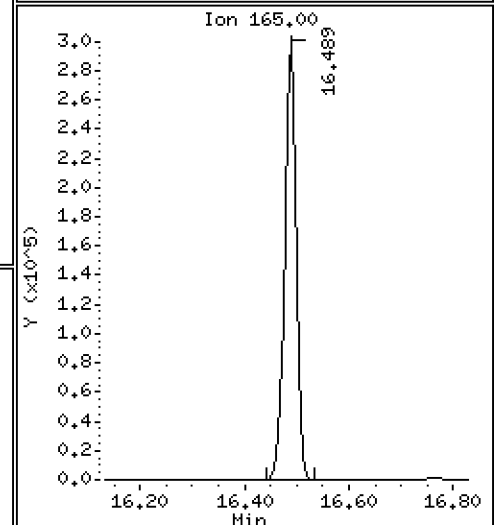
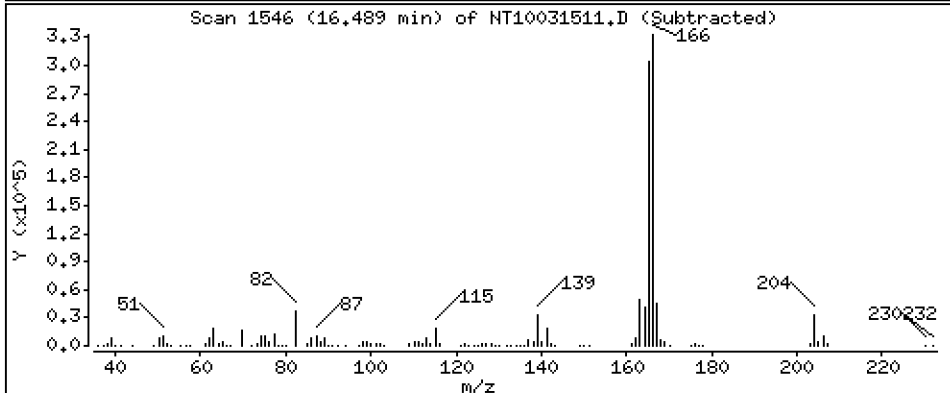
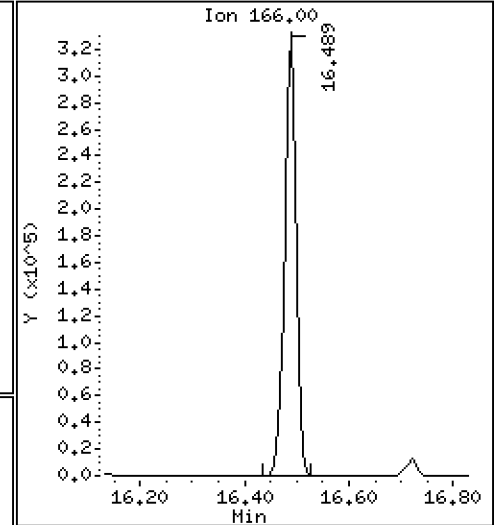
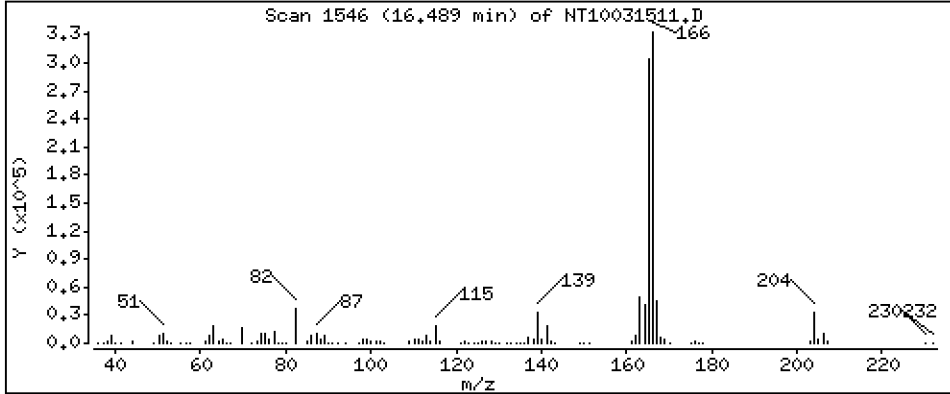
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 4,708 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

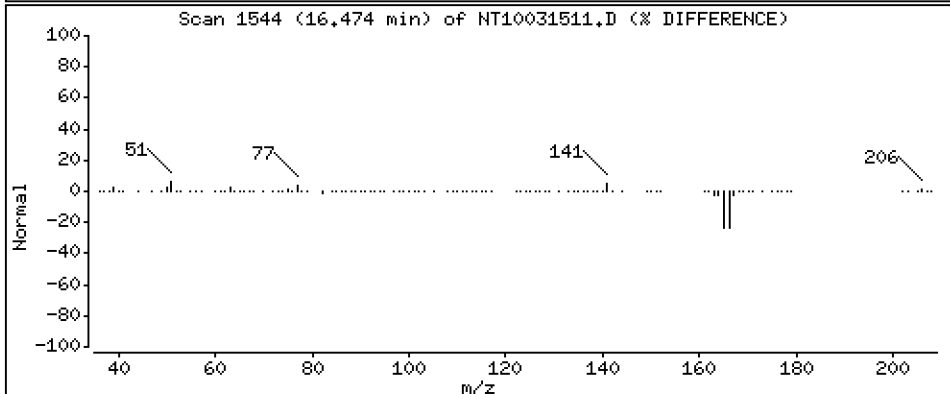
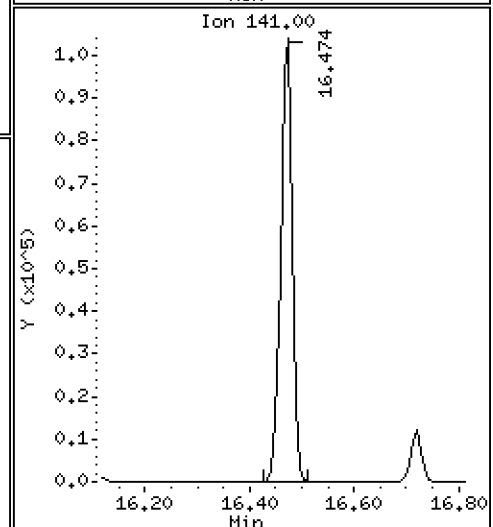
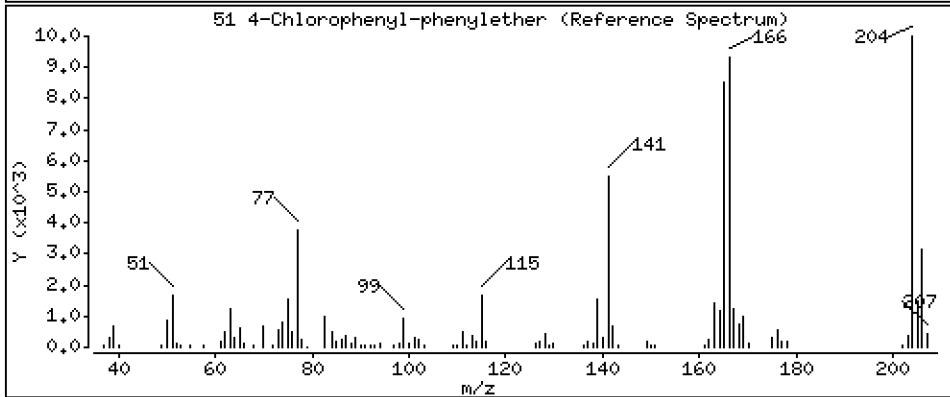
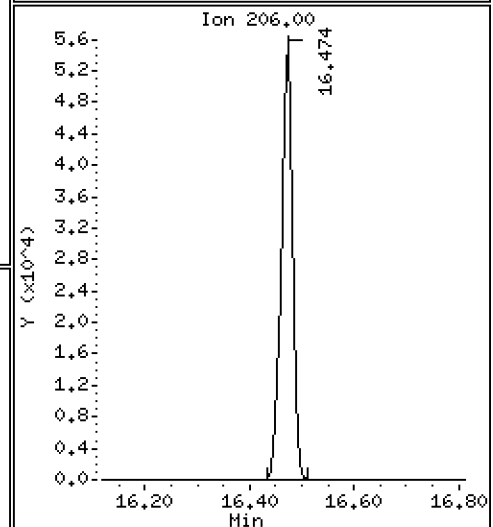
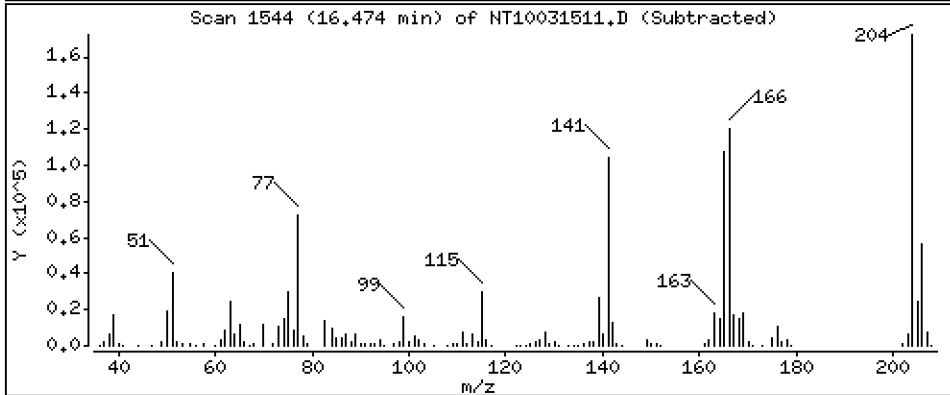
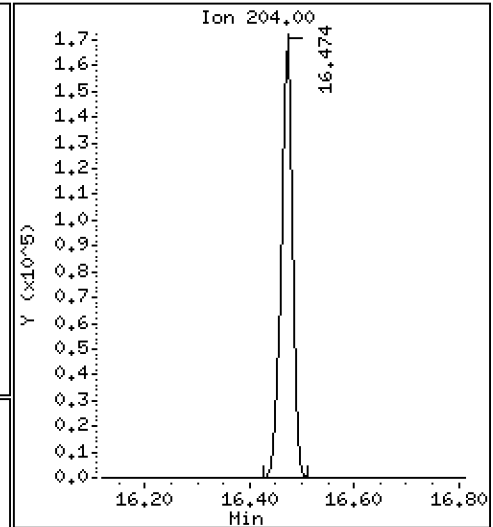
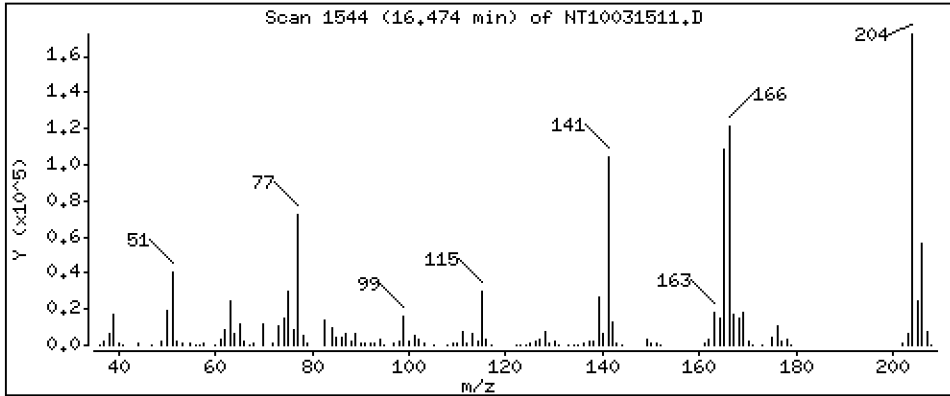
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 4,993 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

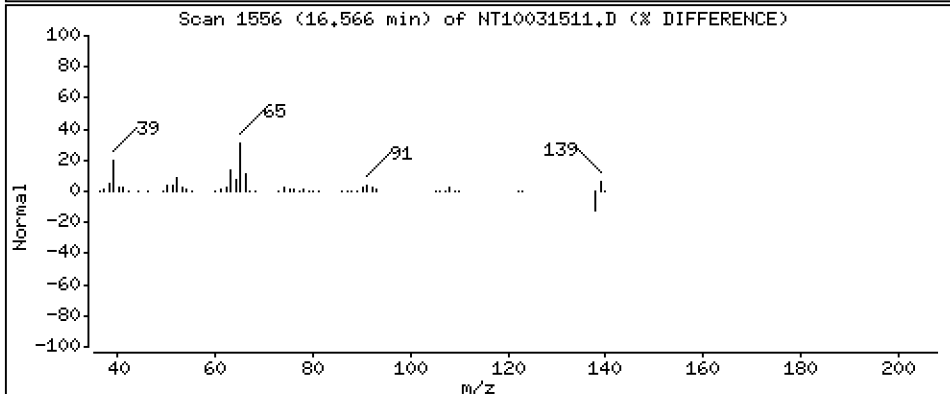
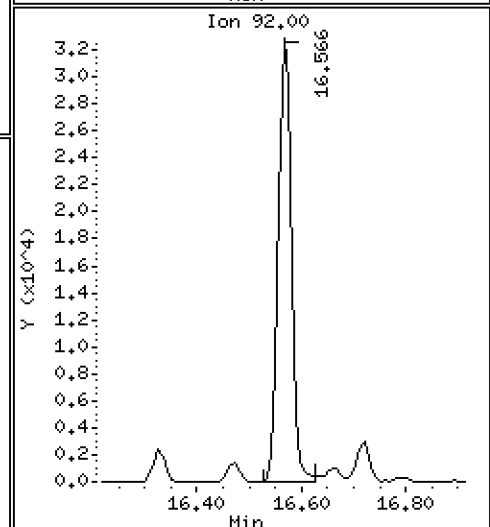
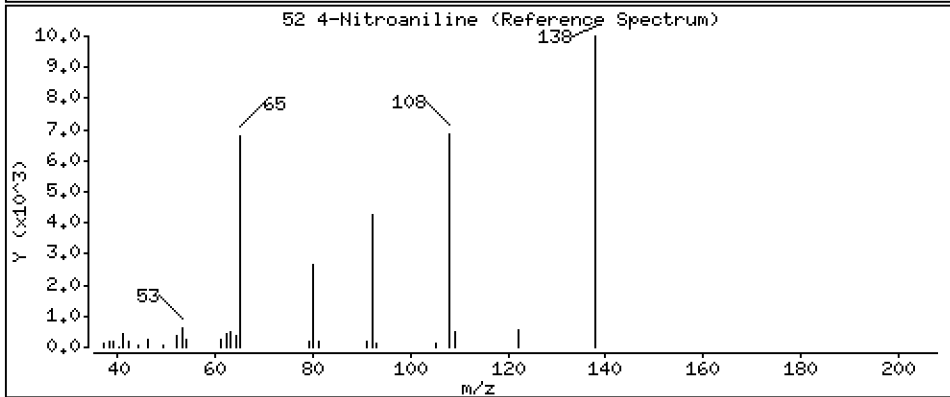
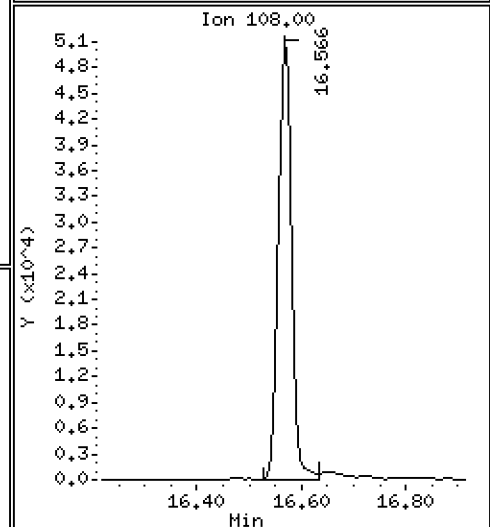
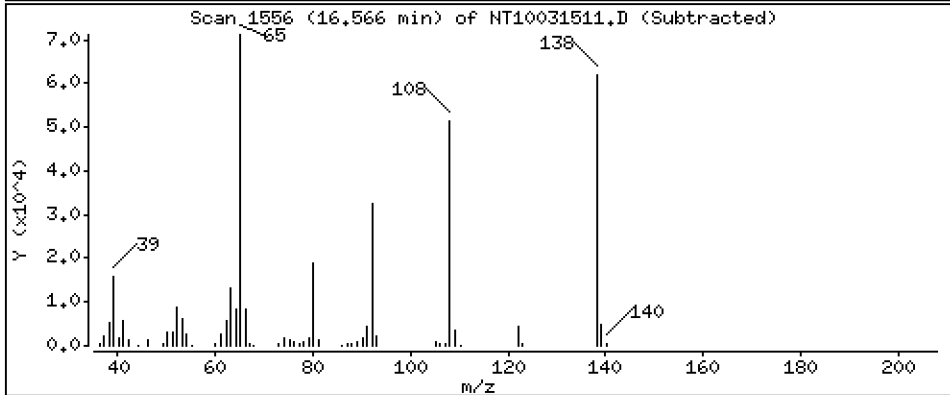
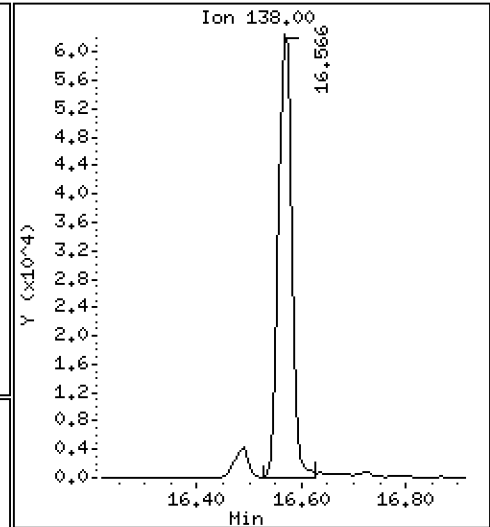
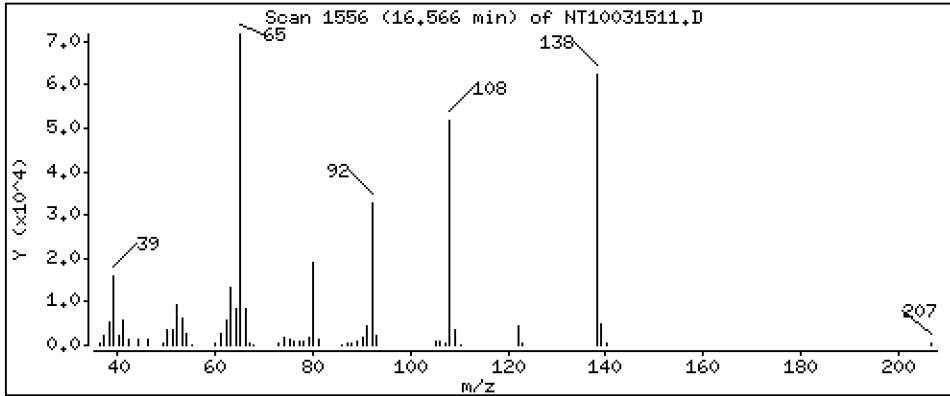
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

52 4-Nitroaniline

Concentration: 4,925 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

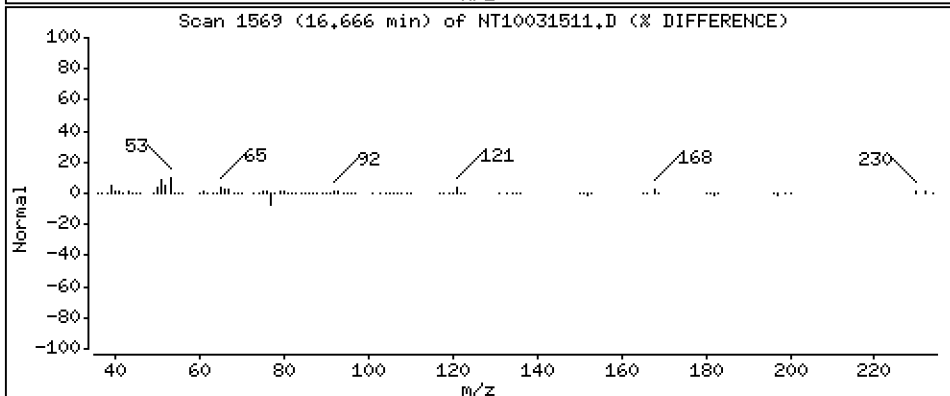
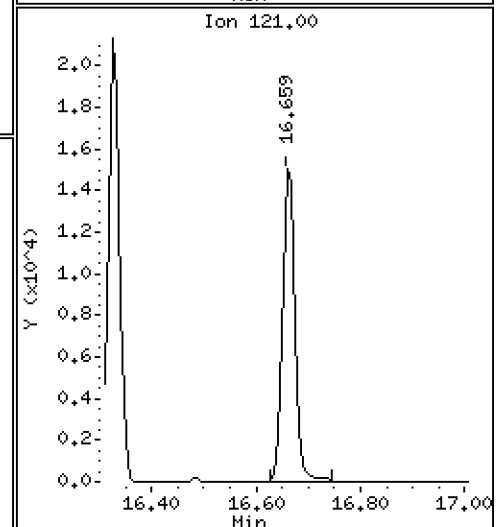
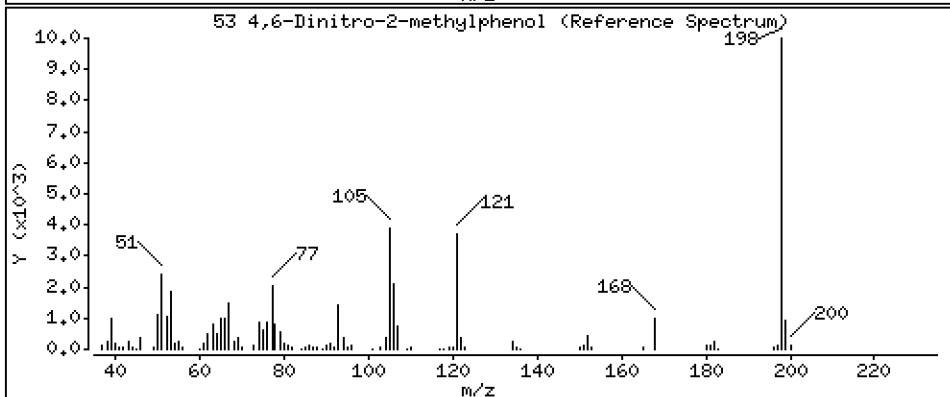
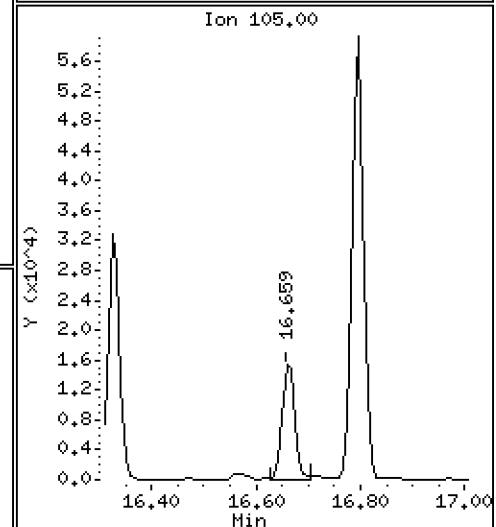
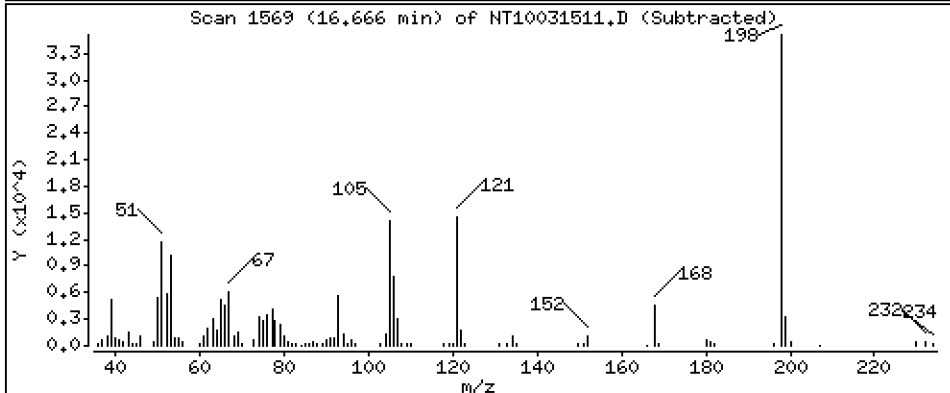
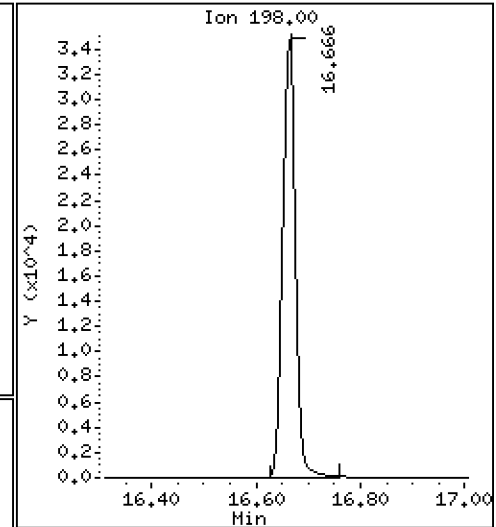
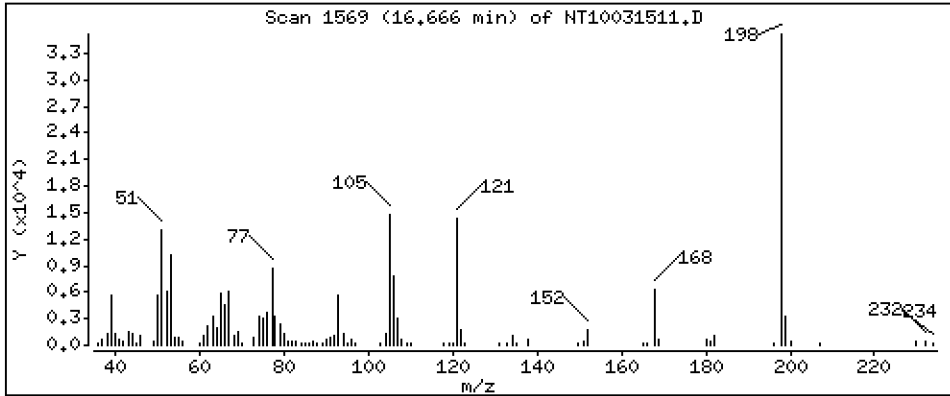
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

53 4,6-Dinitro-2-methylphenol

Concentration: 3.515 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

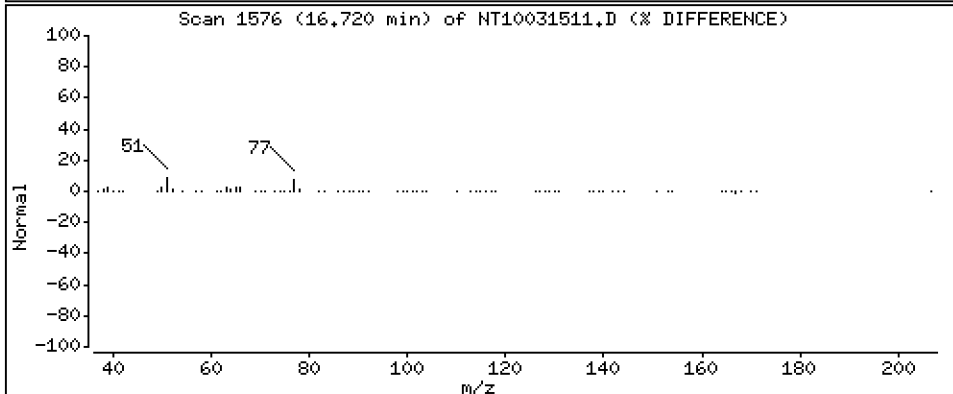
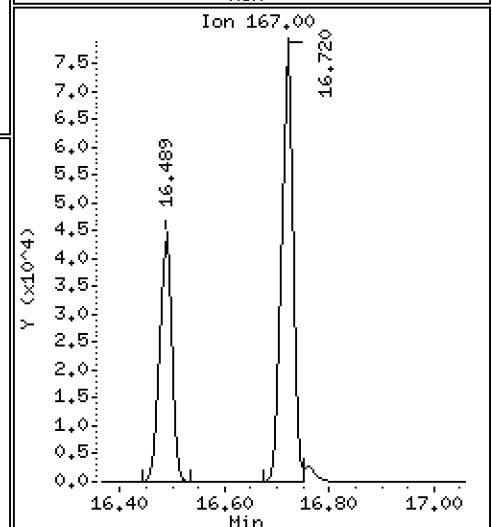
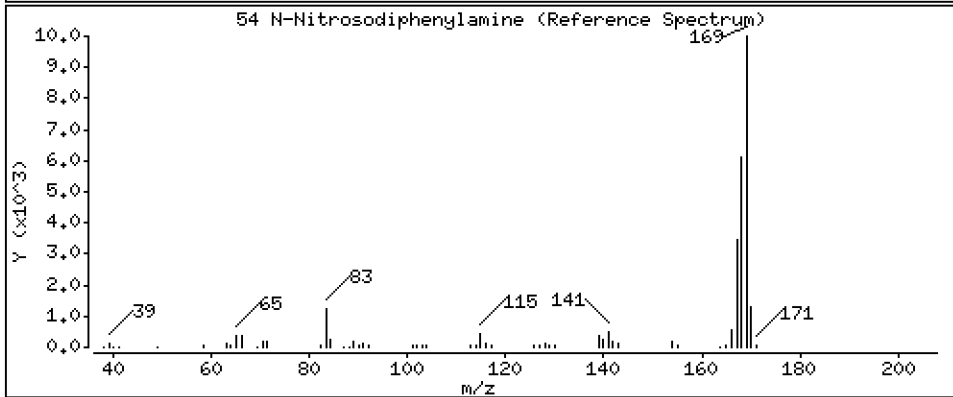
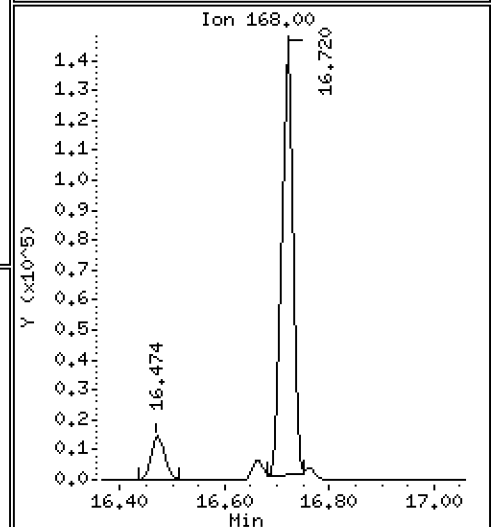
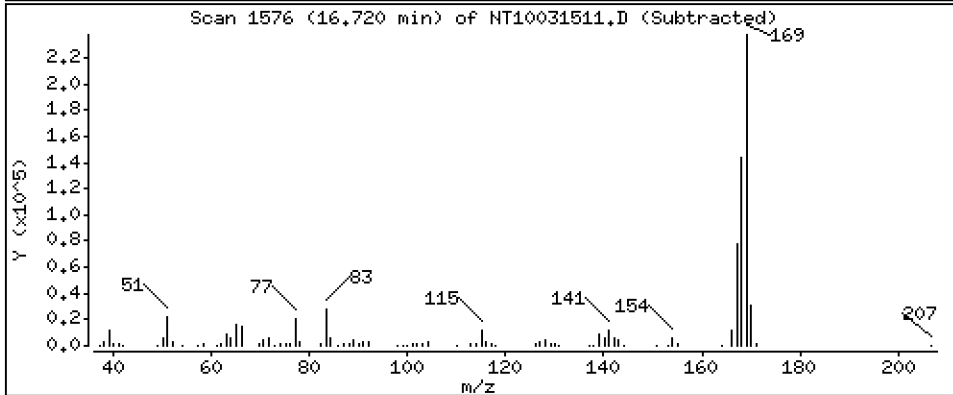
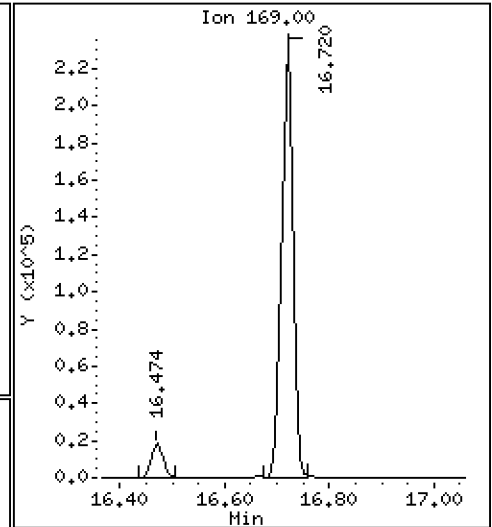
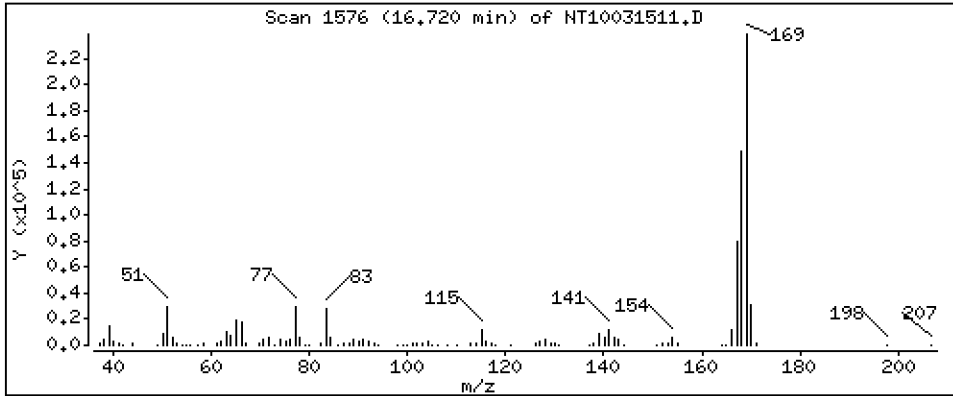
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

54 N-Nitrosodiphenylamine

Concentration: 4,802 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

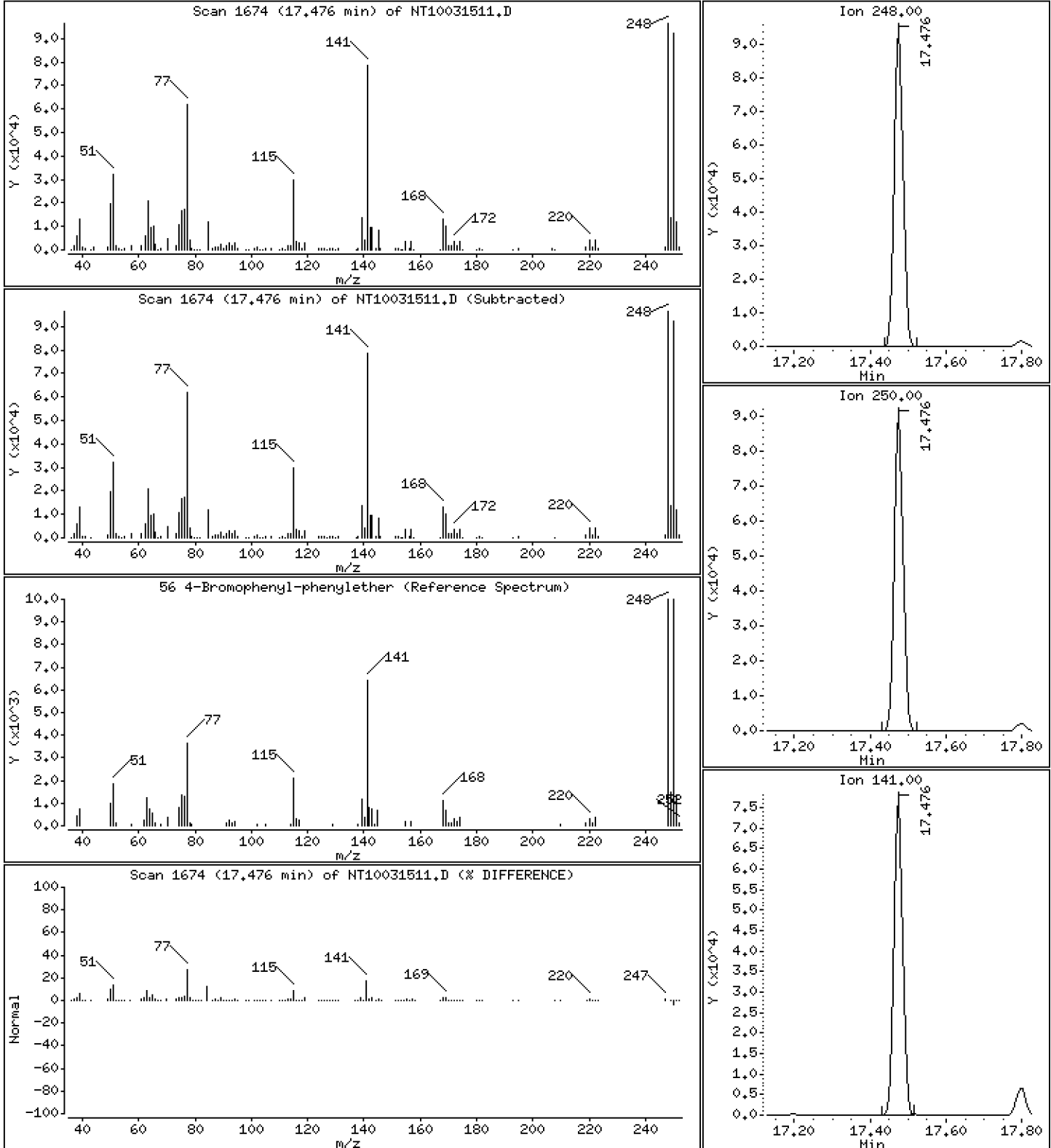
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 5,060 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

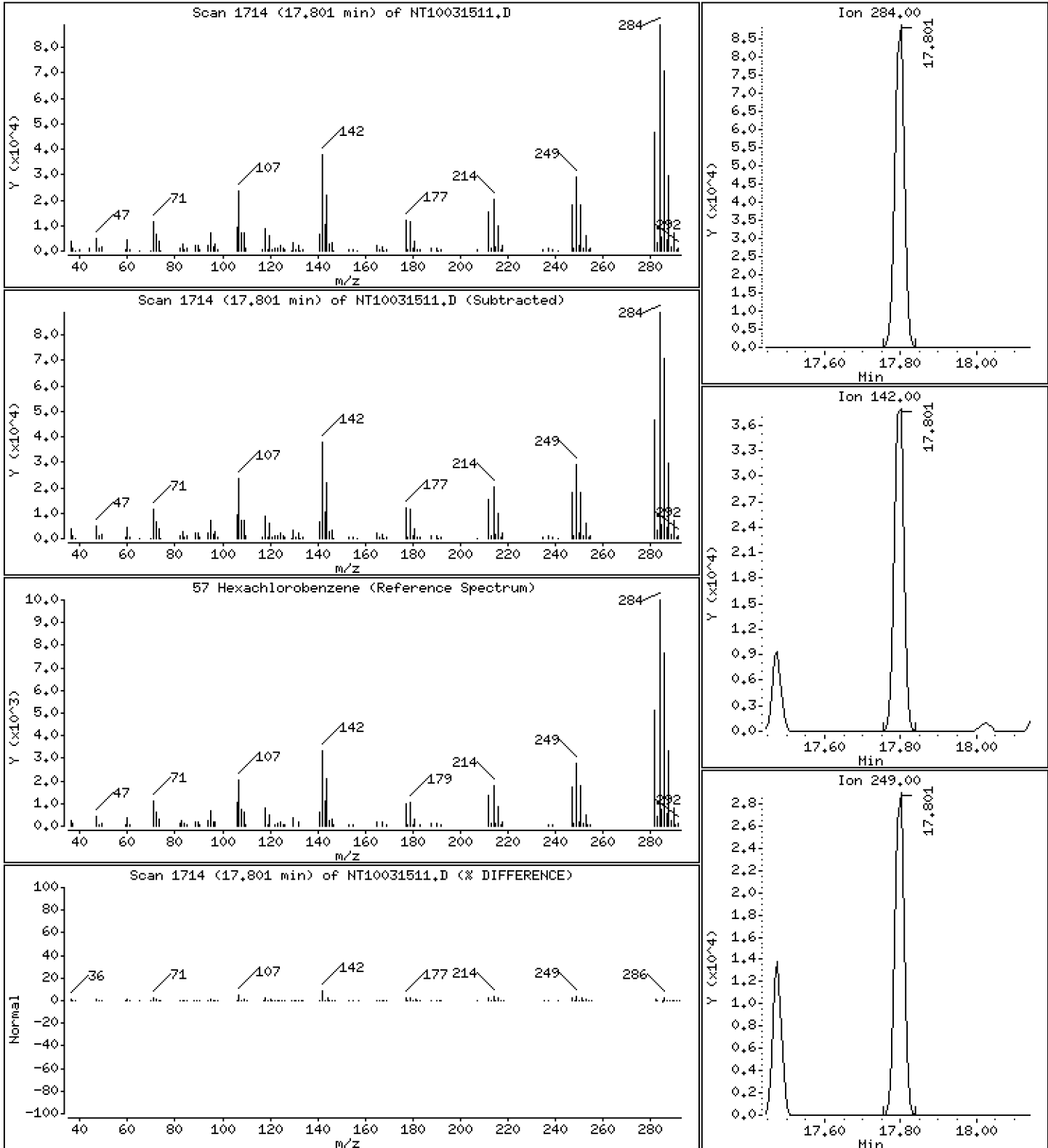
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

57 Hexachlorobenzene

Concentration: 4,596 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

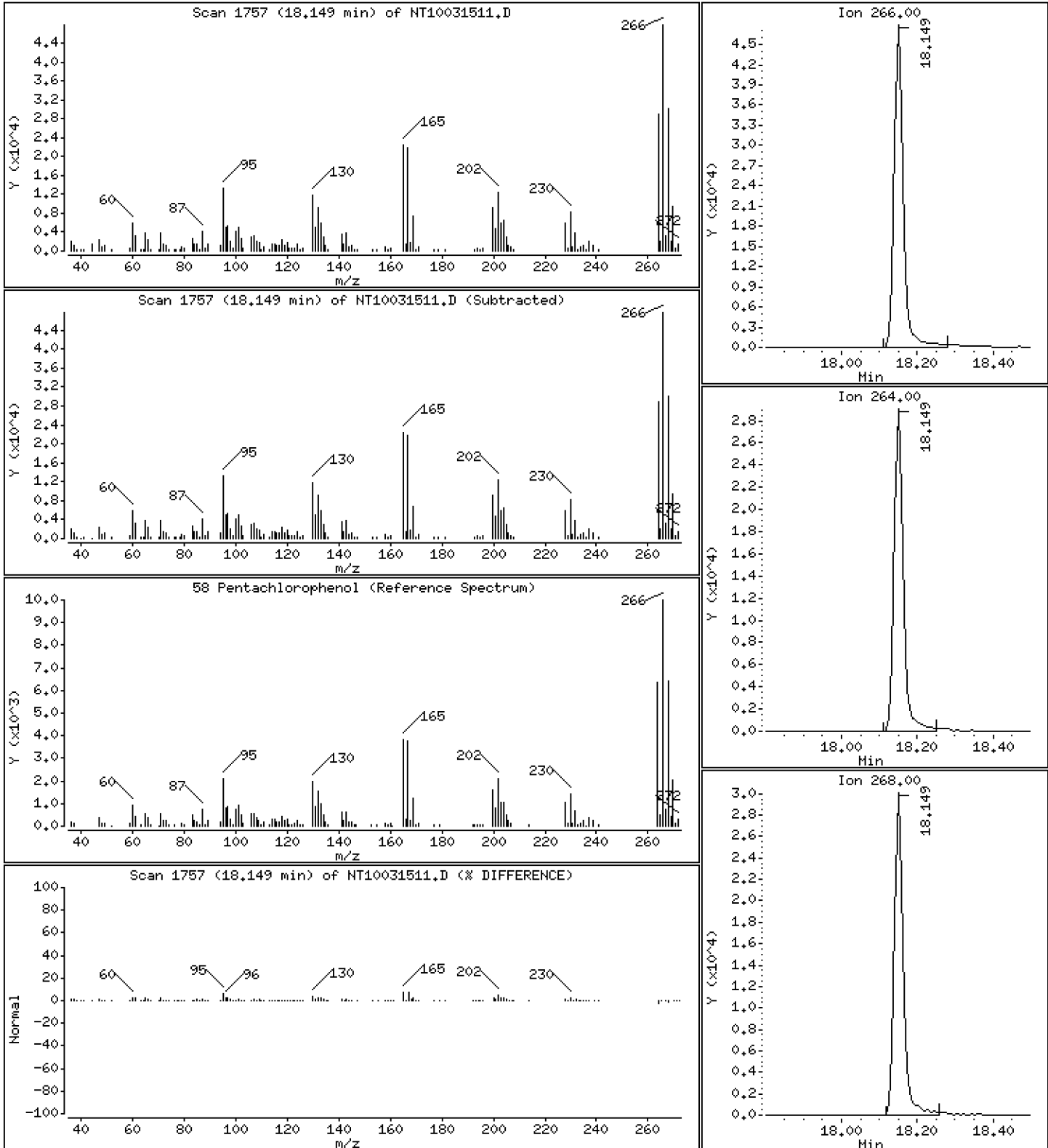
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 4,057 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

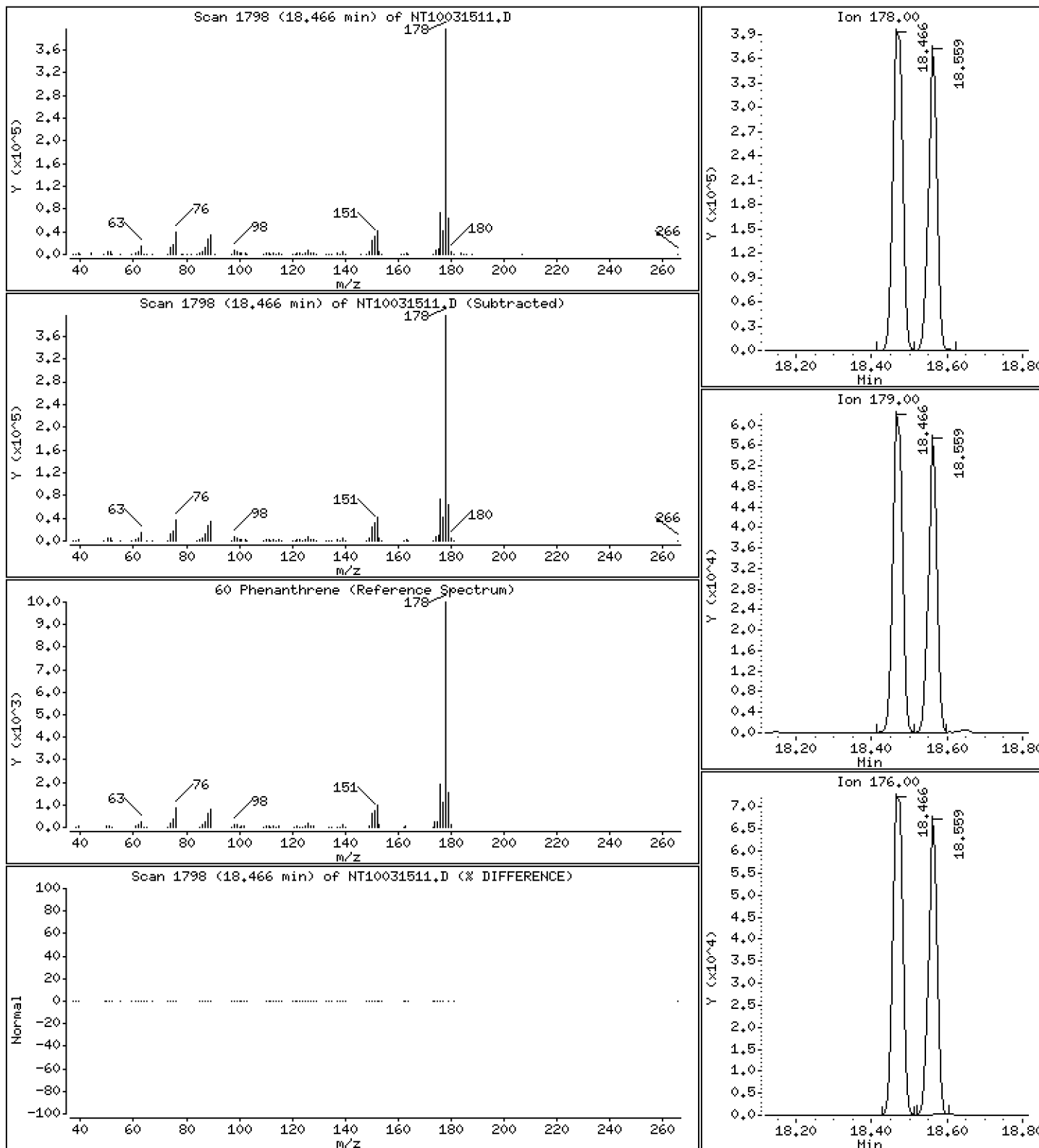
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 4,602 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

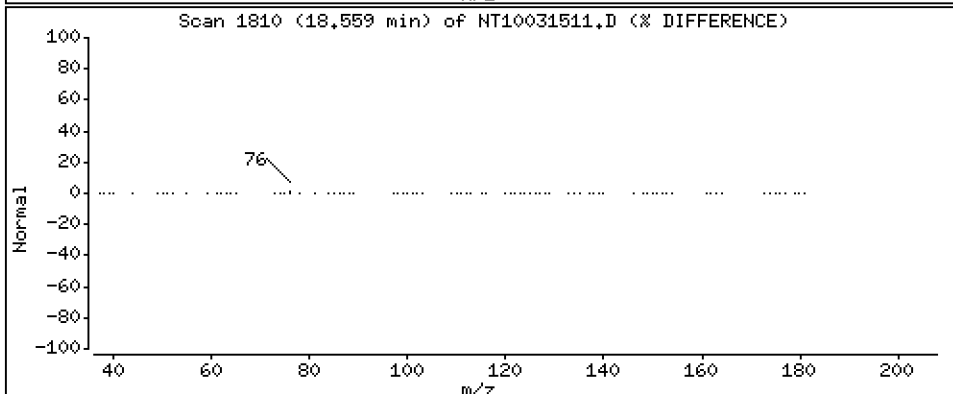
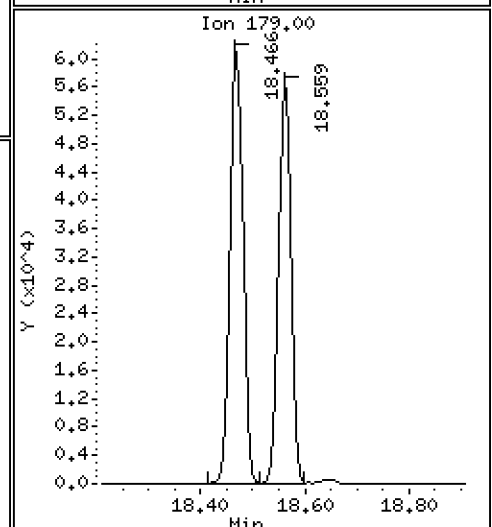
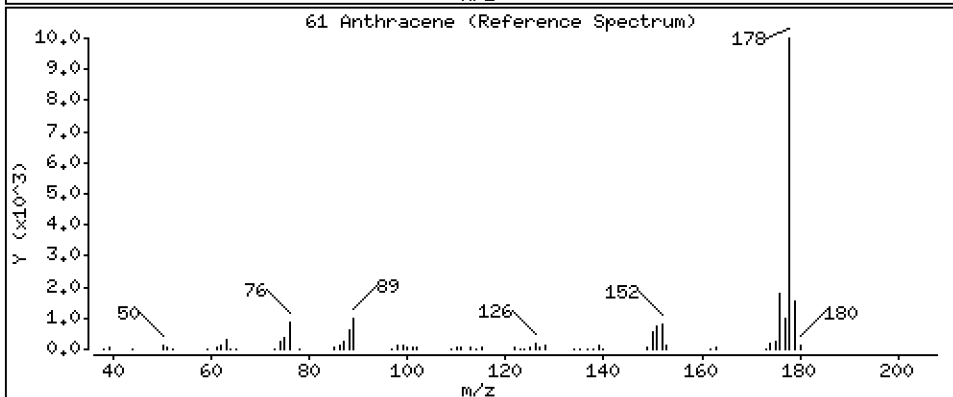
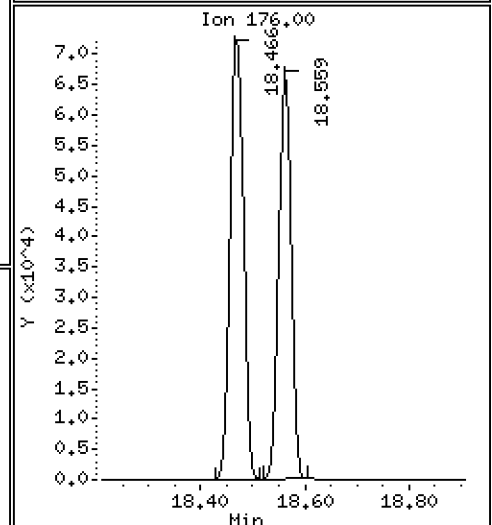
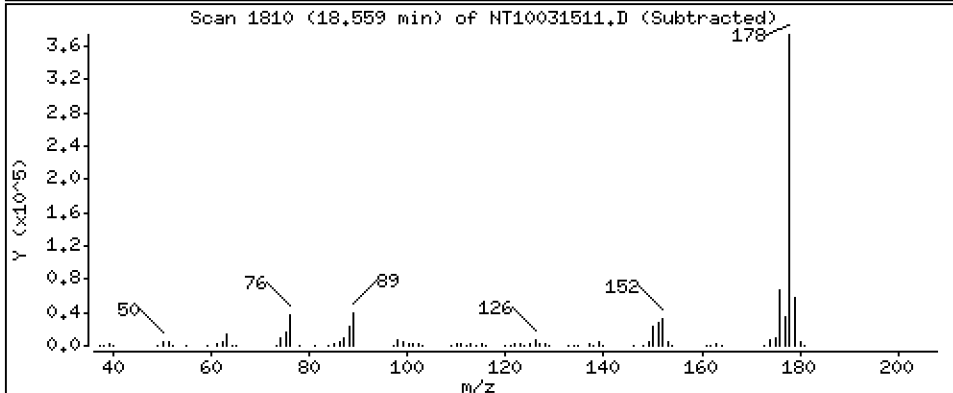
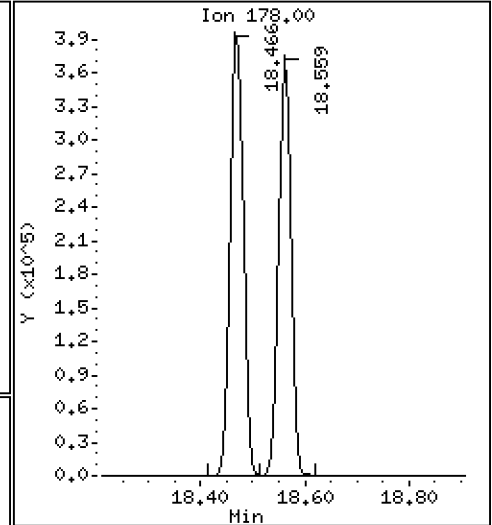
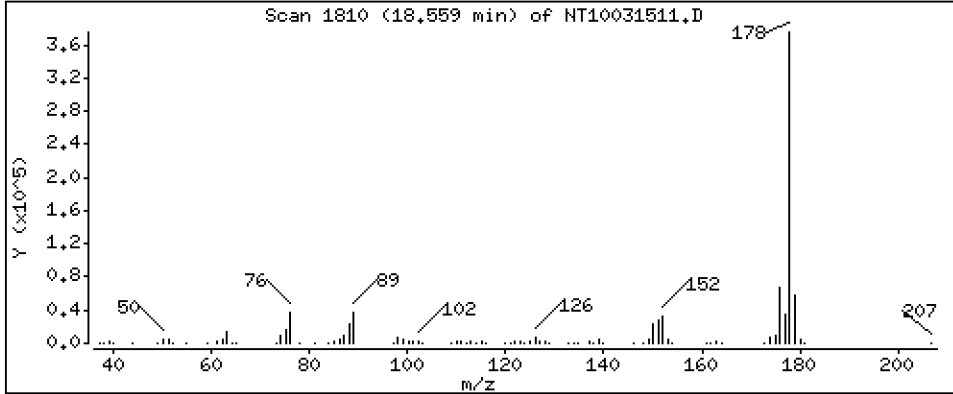
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 4,167 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

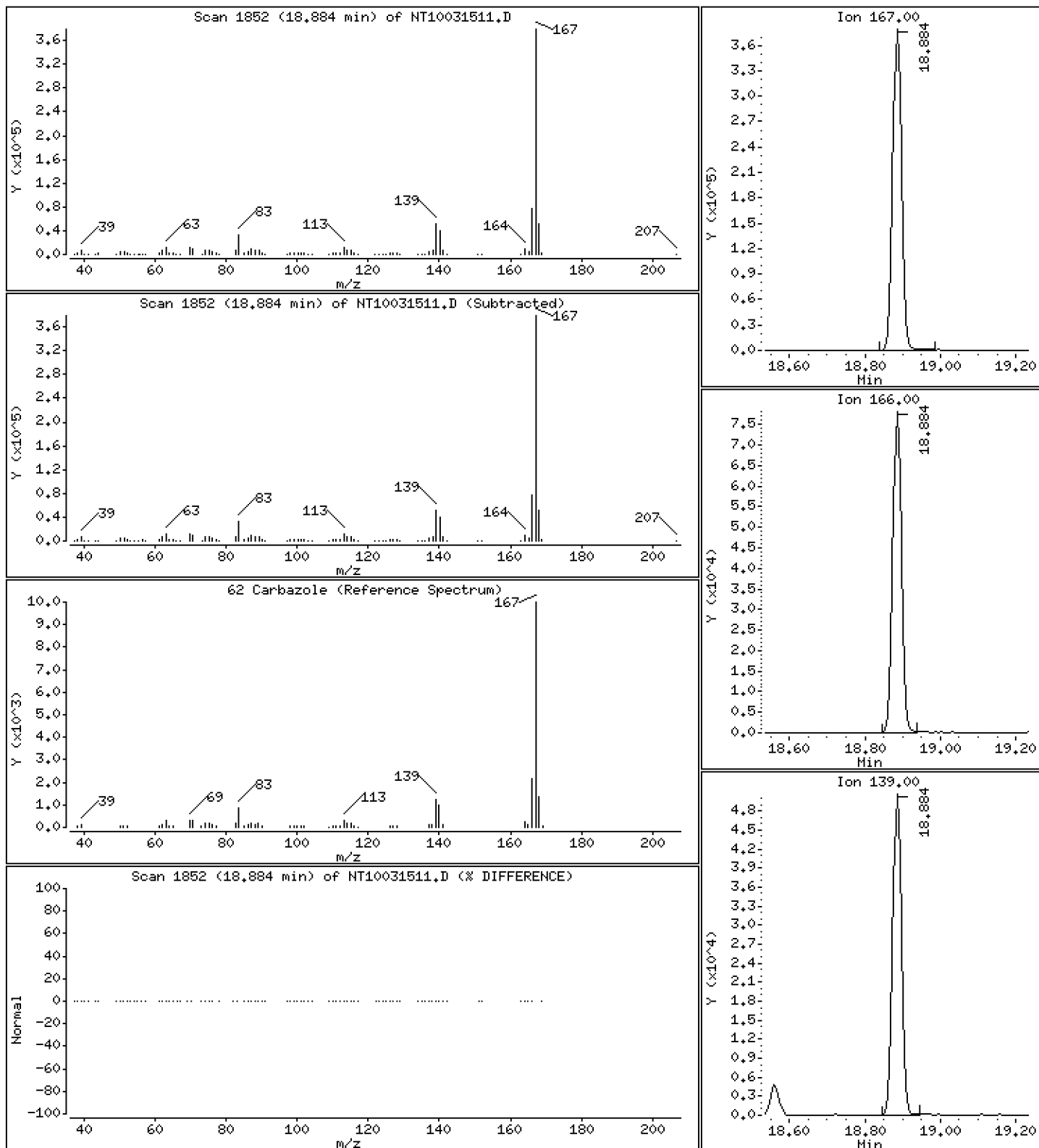
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 4,730 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

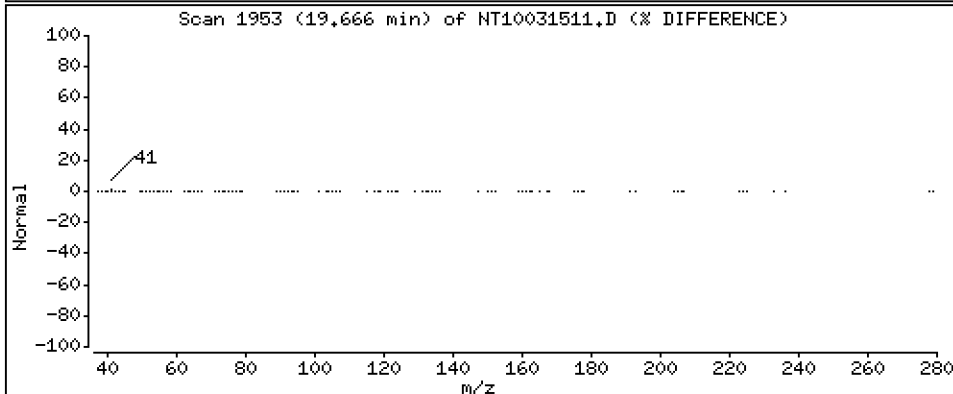
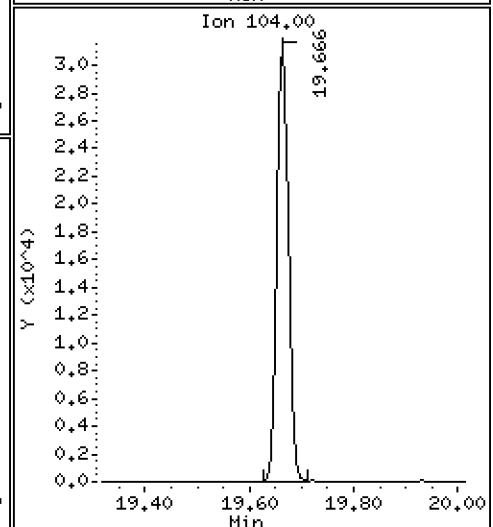
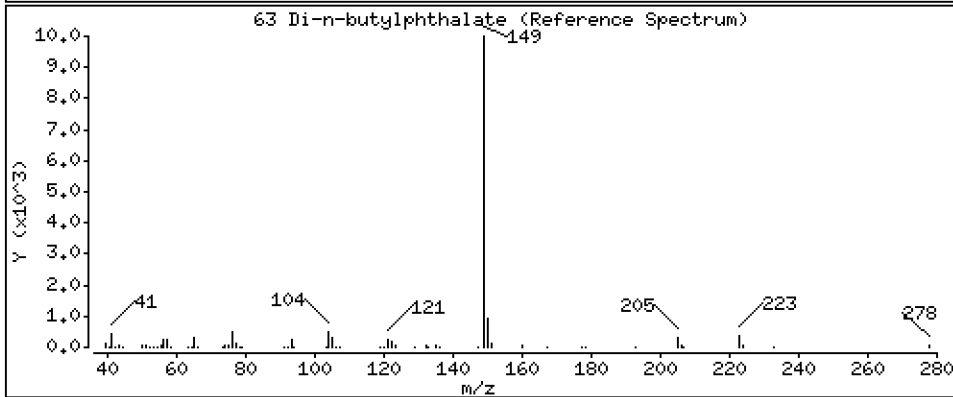
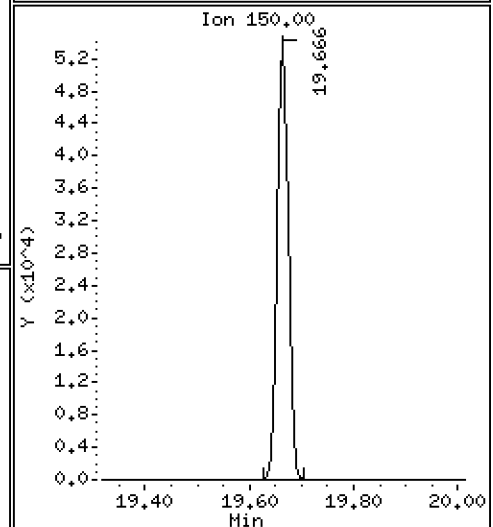
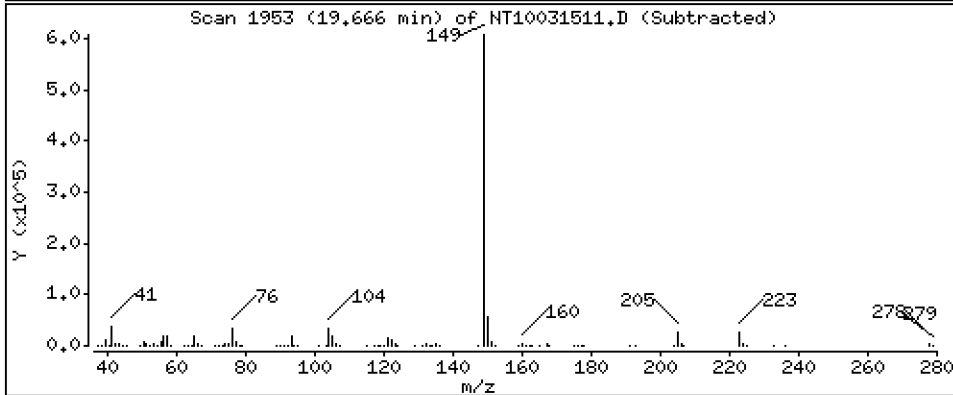
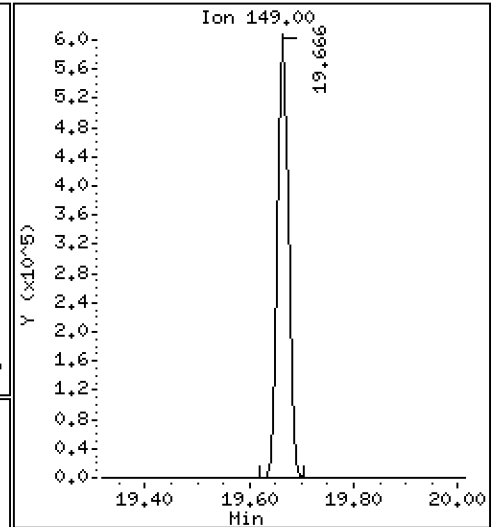
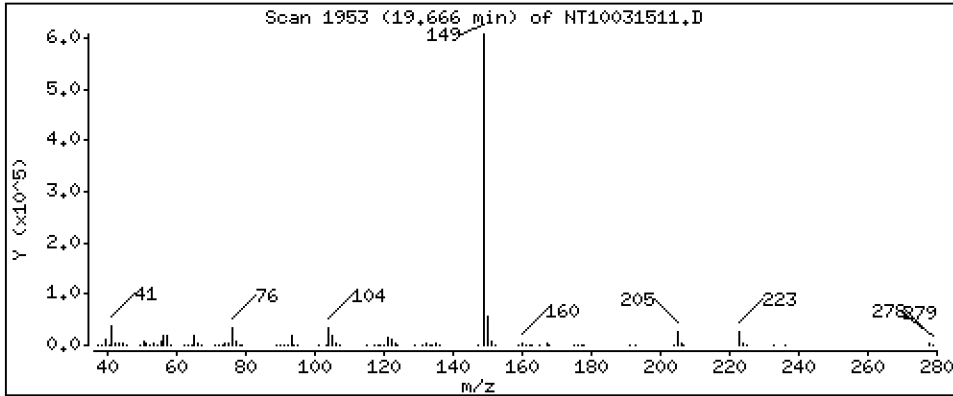
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 4,967 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

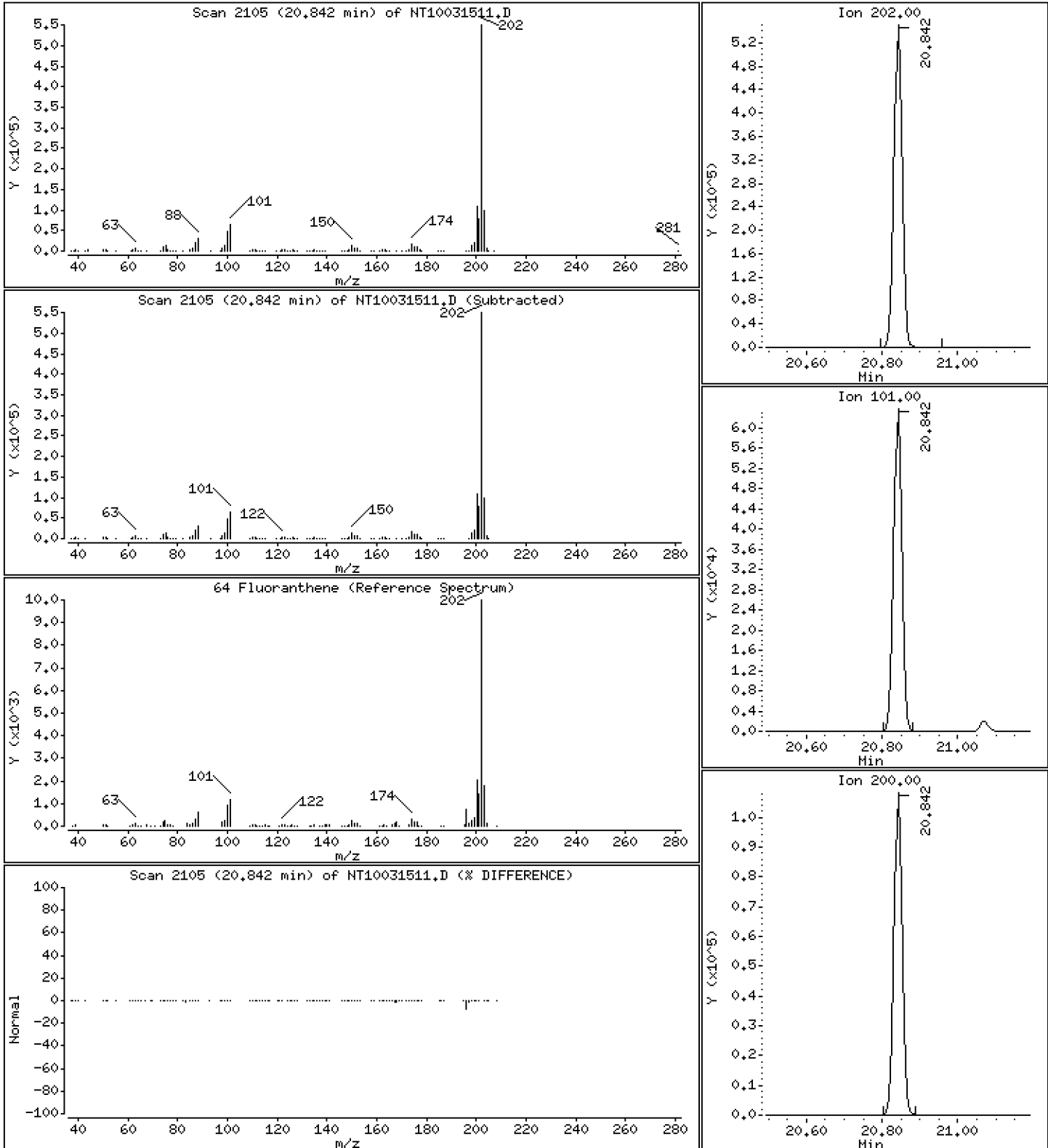
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 4,472 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

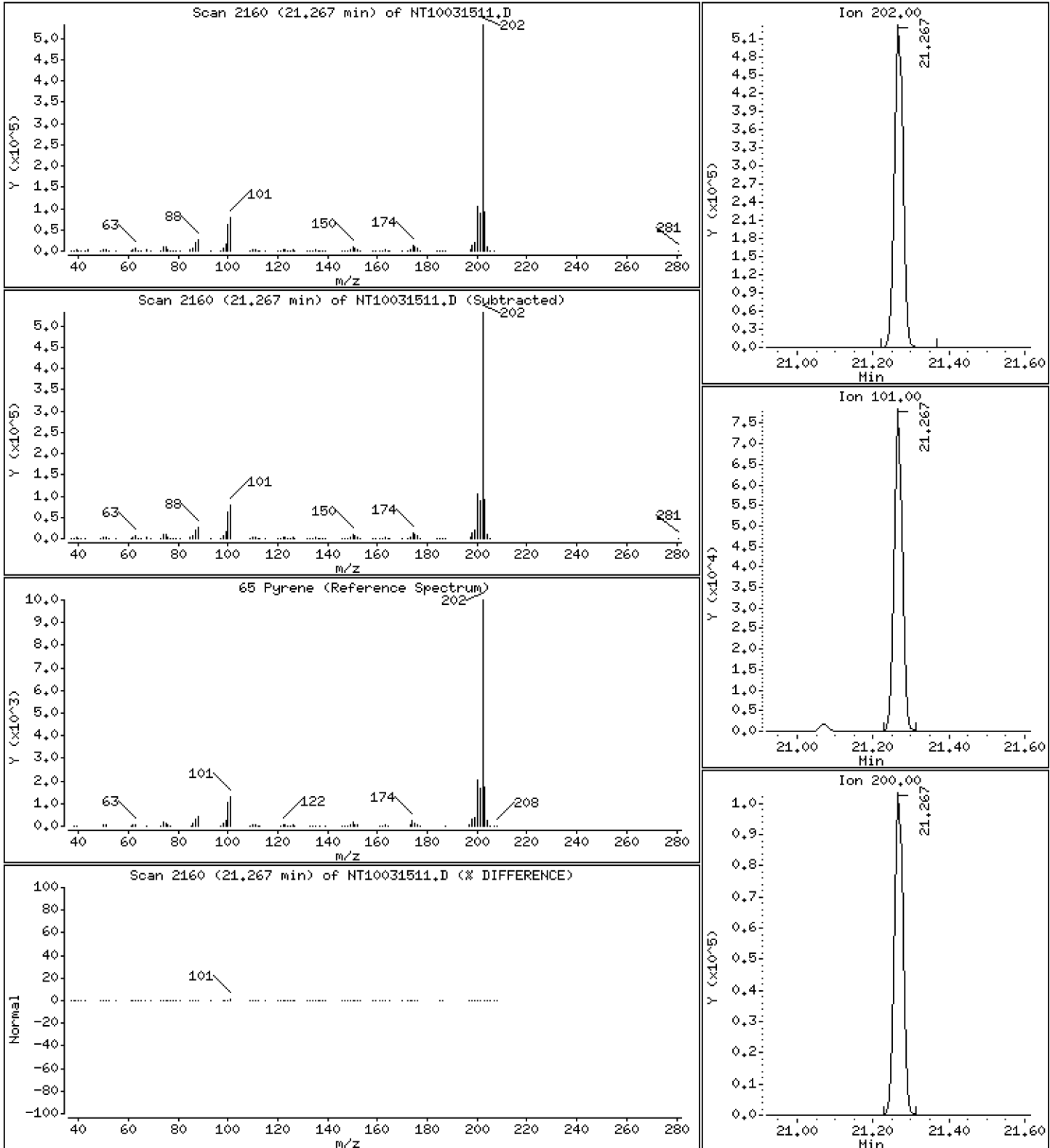
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 4,339 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

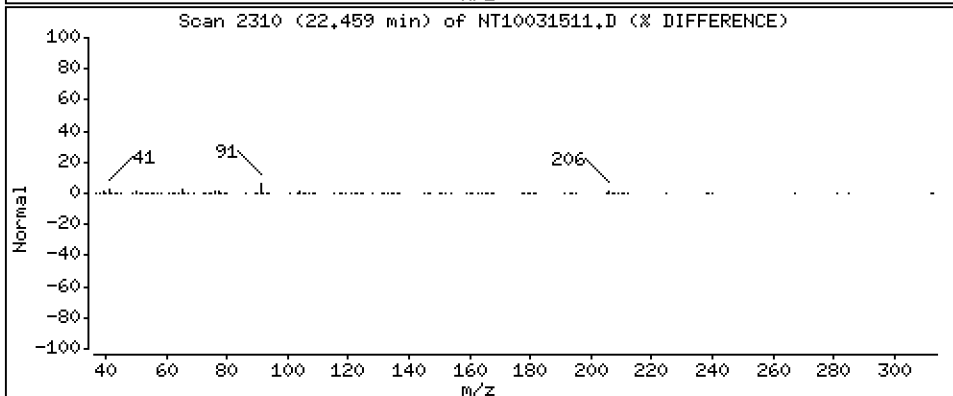
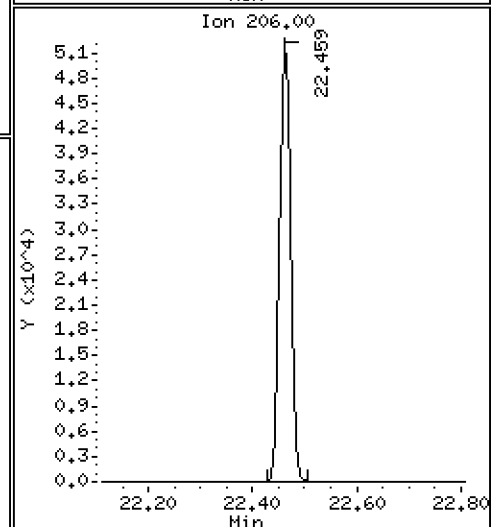
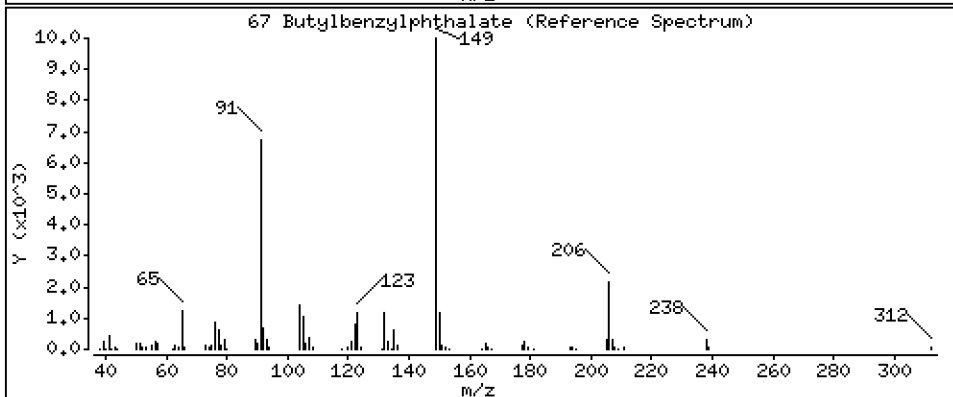
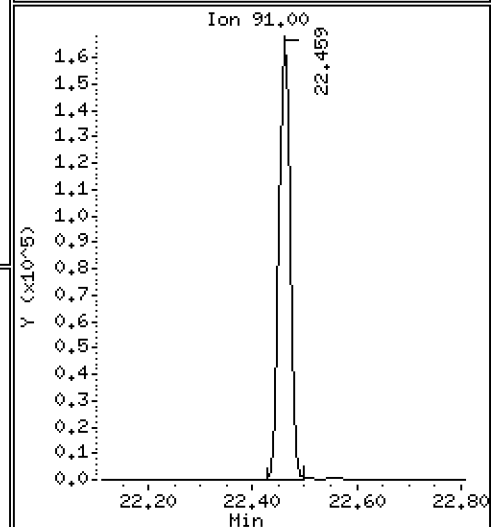
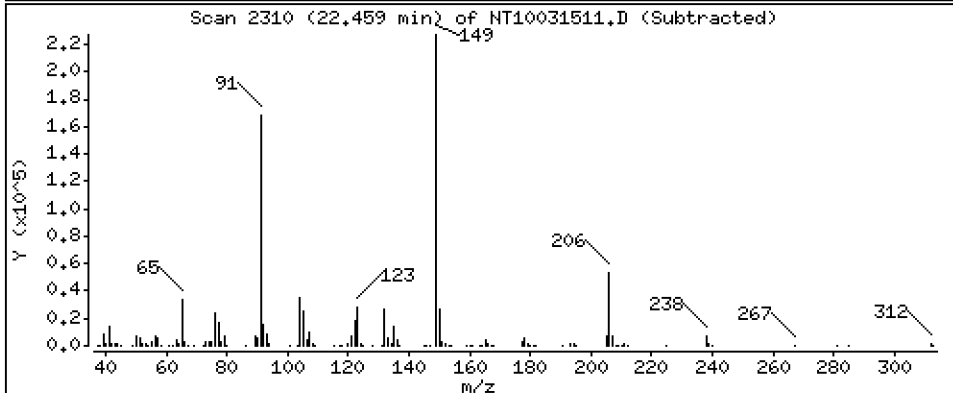
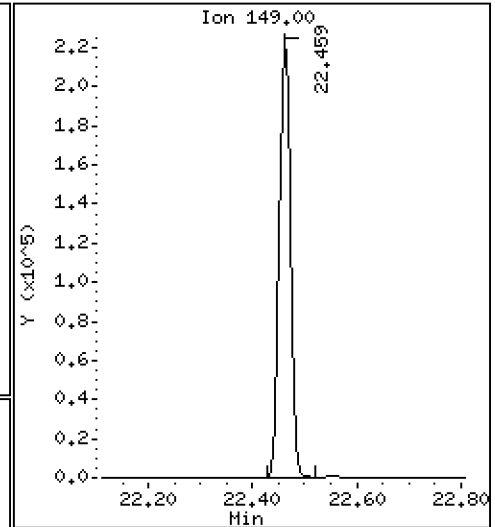
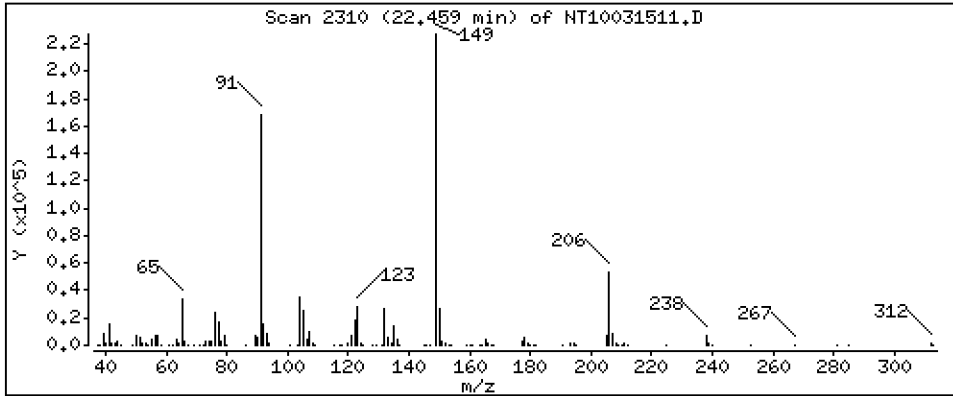
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 4,834 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

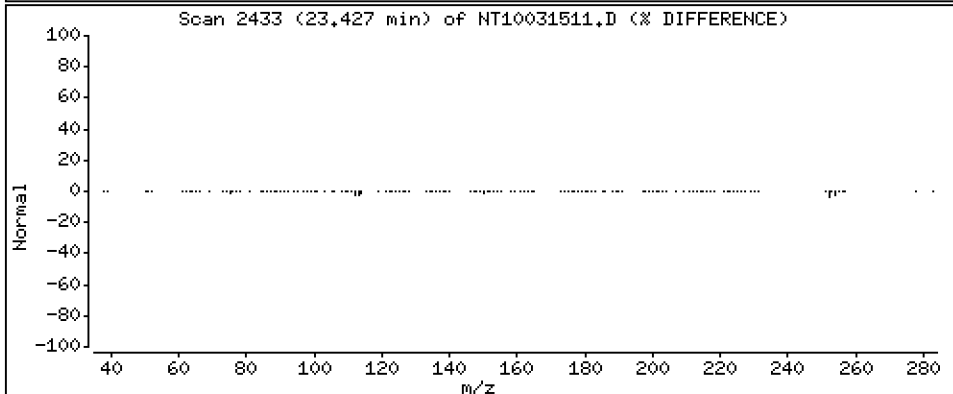
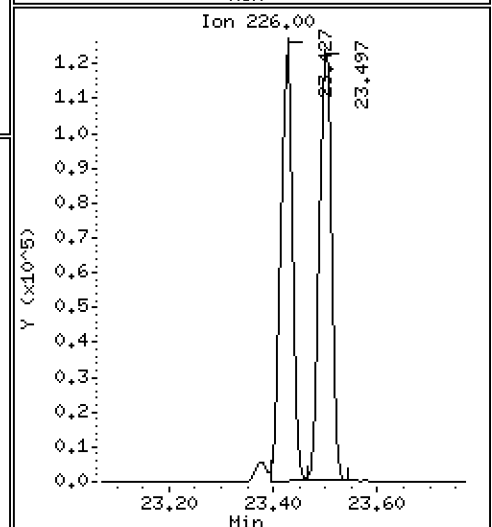
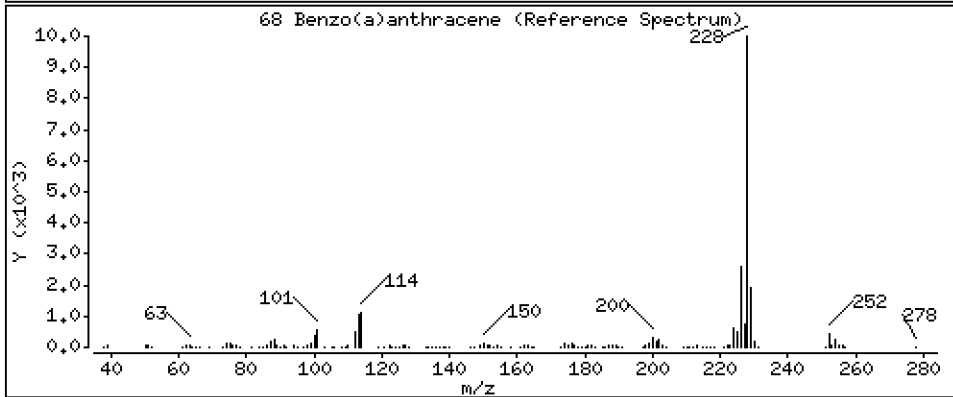
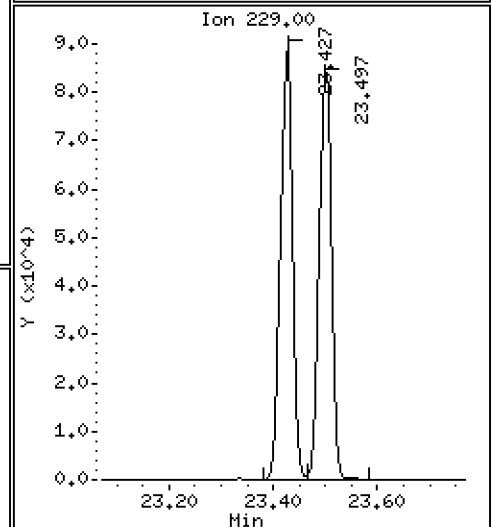
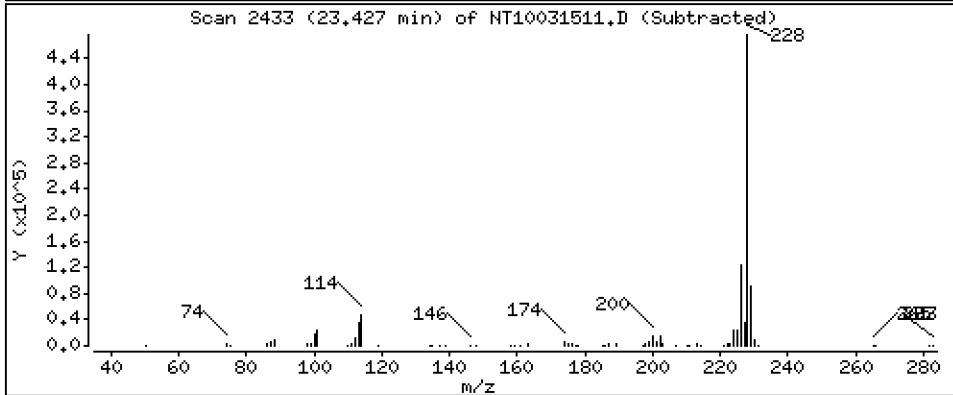
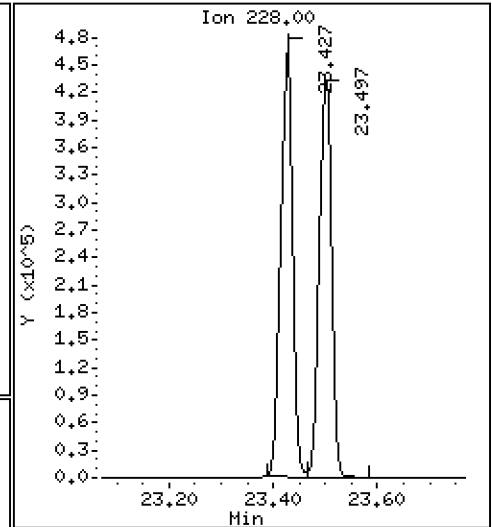
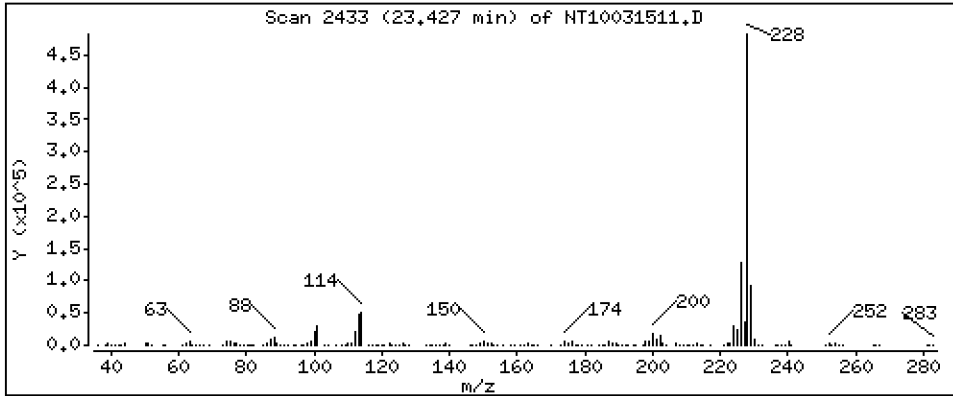
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 4,647 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

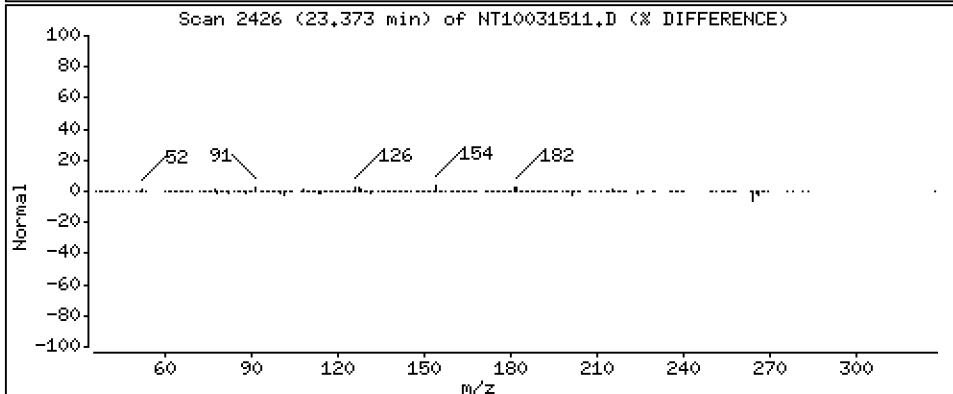
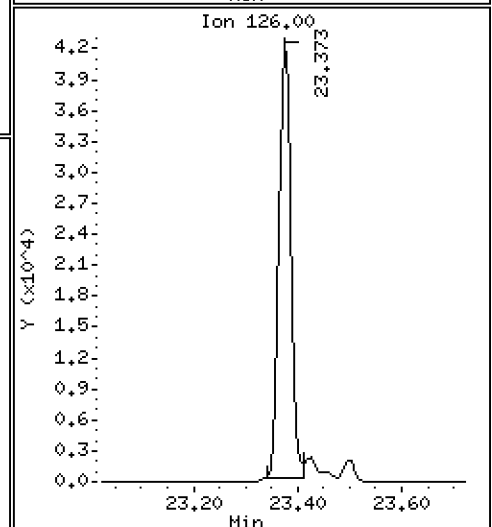
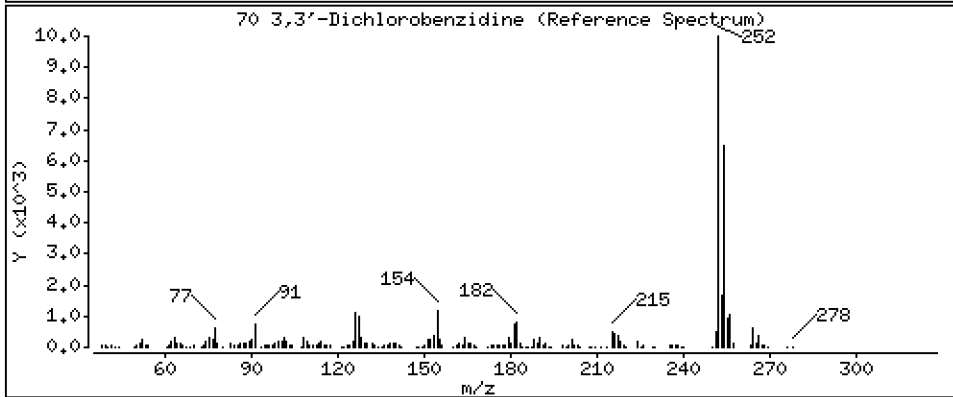
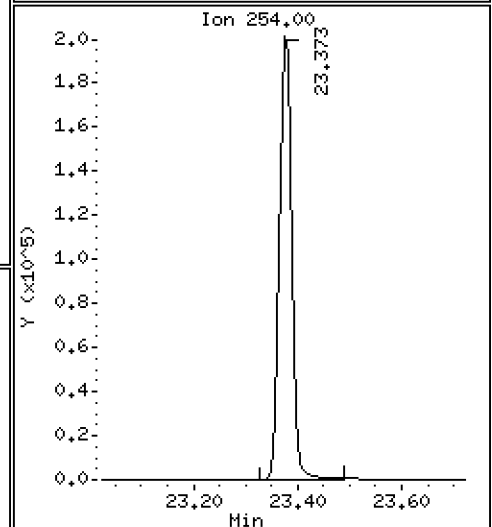
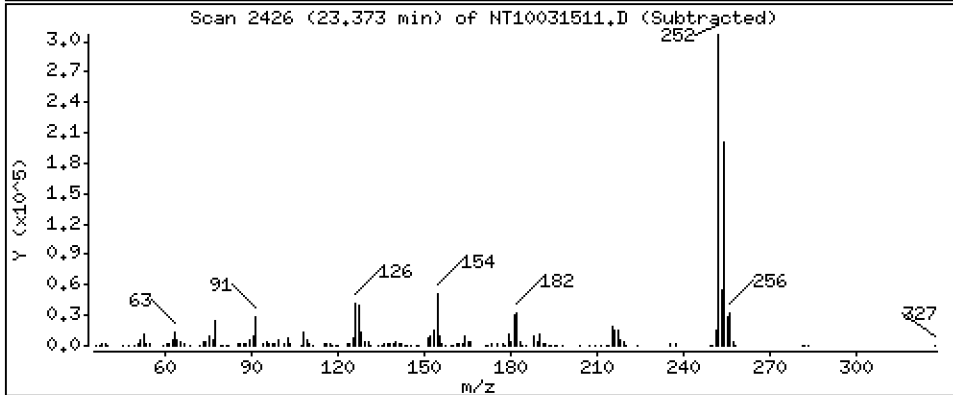
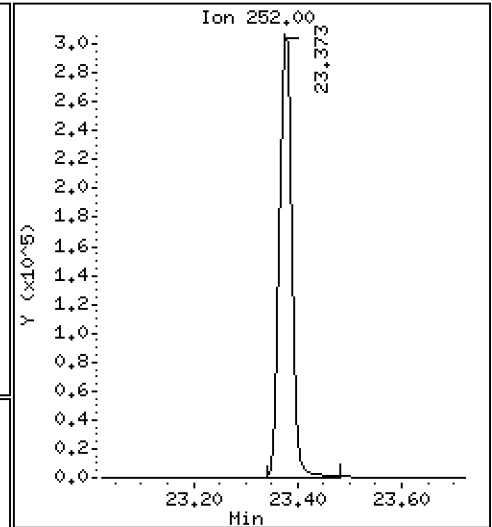
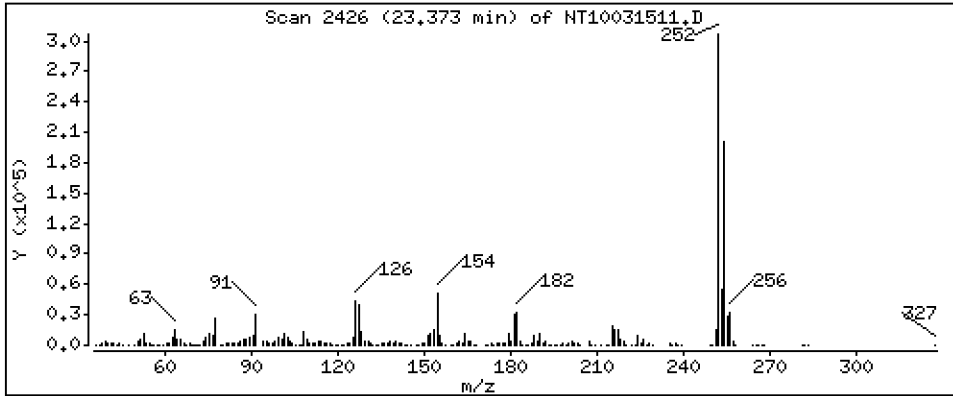
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

70 3,3'-Dichlorobenzidine

Concentration: 9,817 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

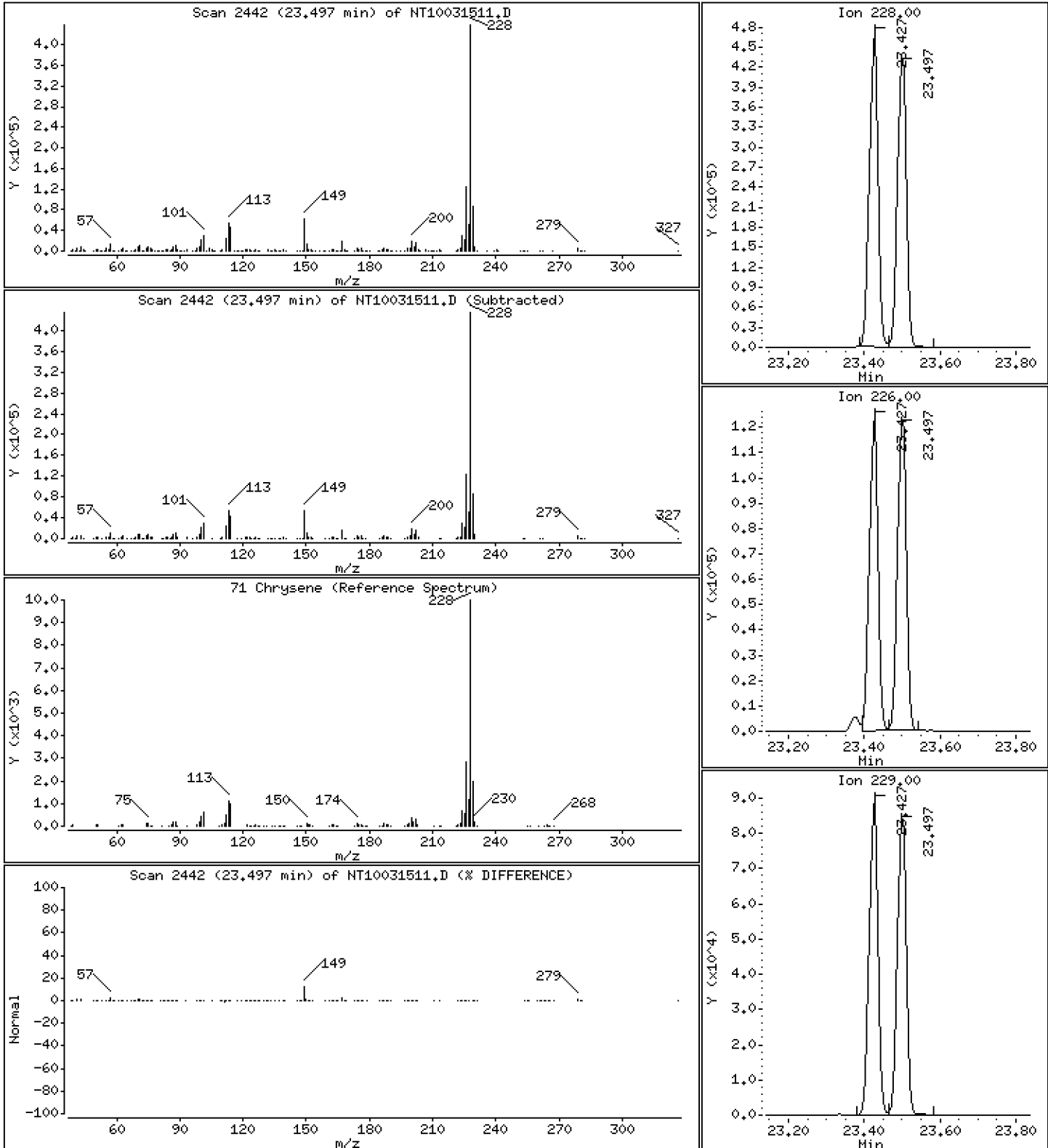
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 4,510 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

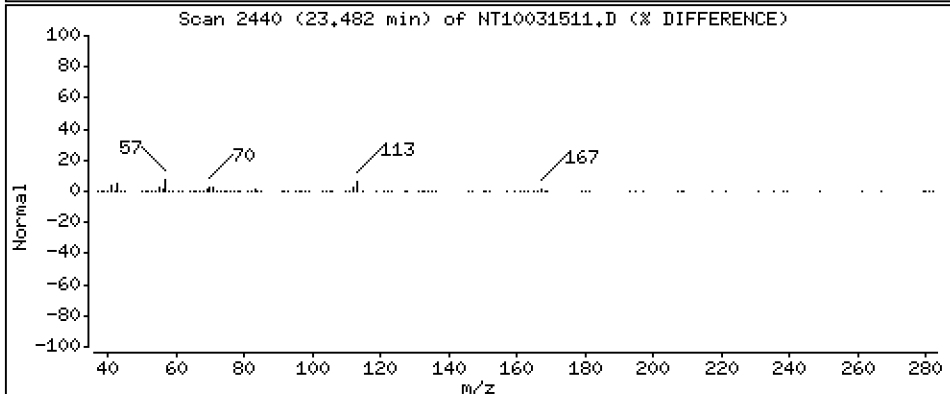
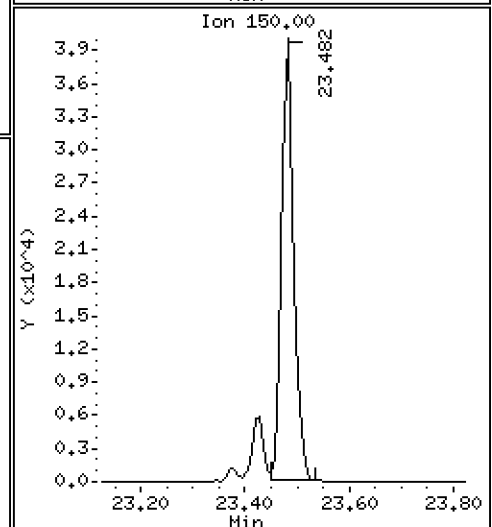
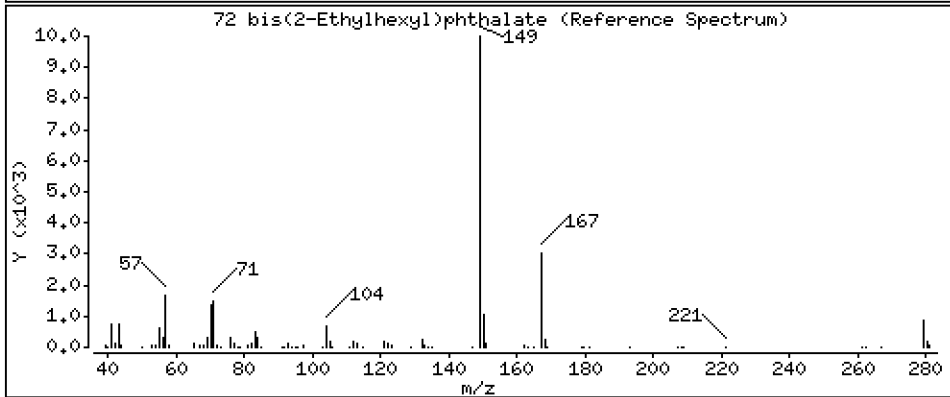
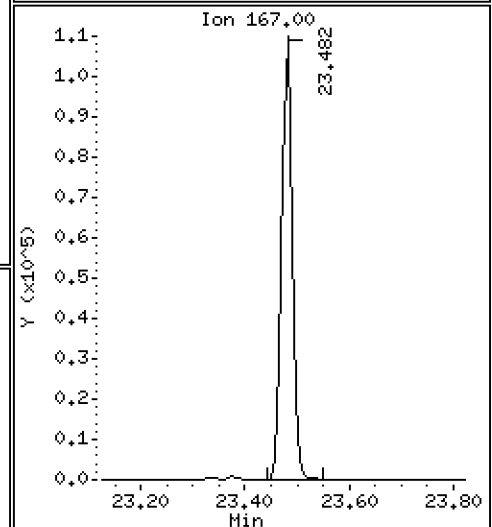
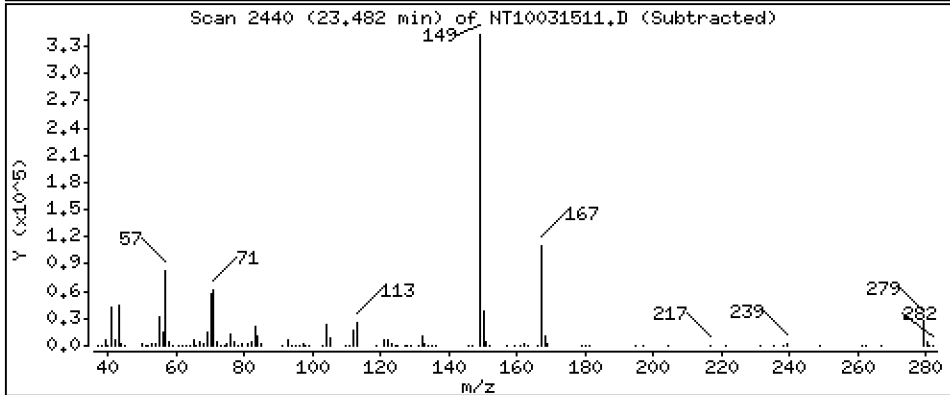
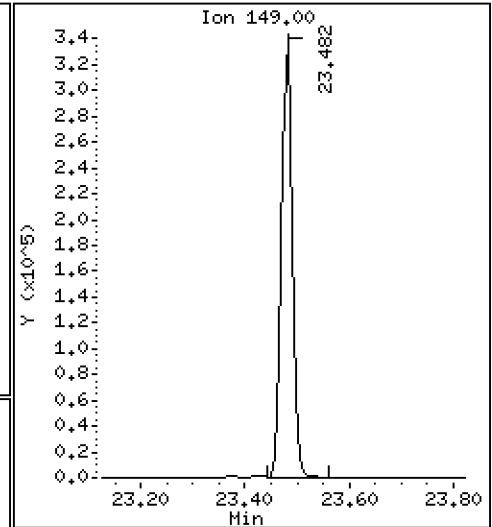
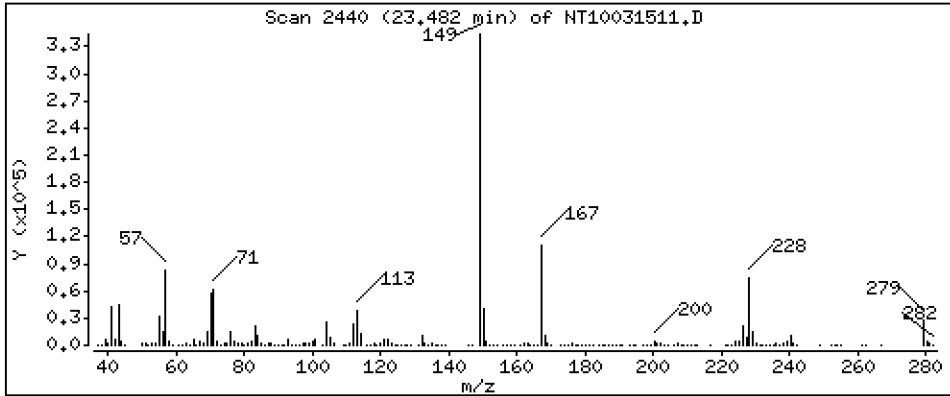
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 4,680 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

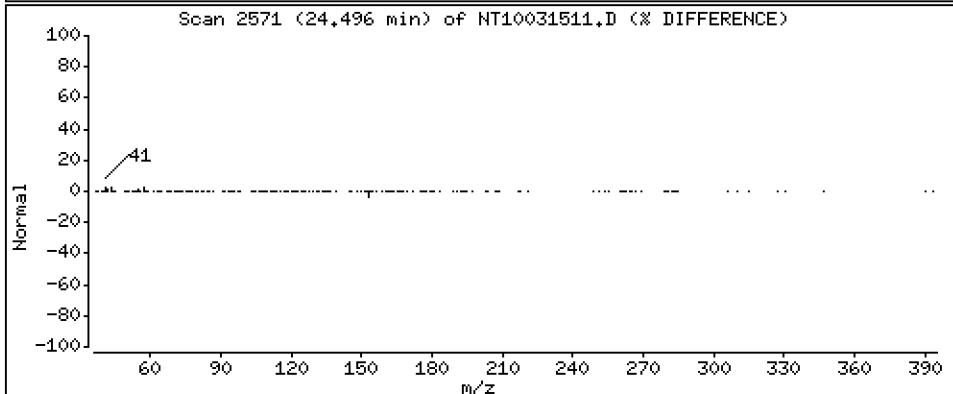
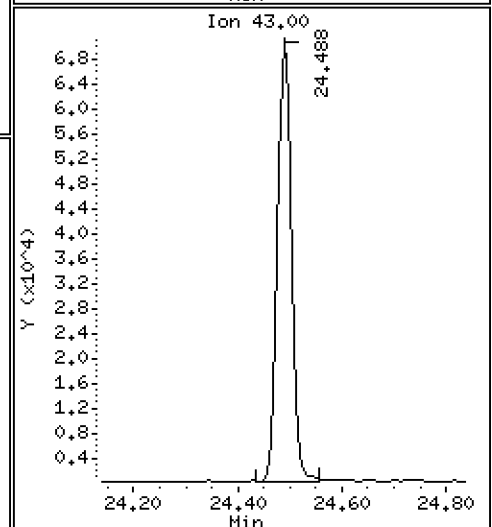
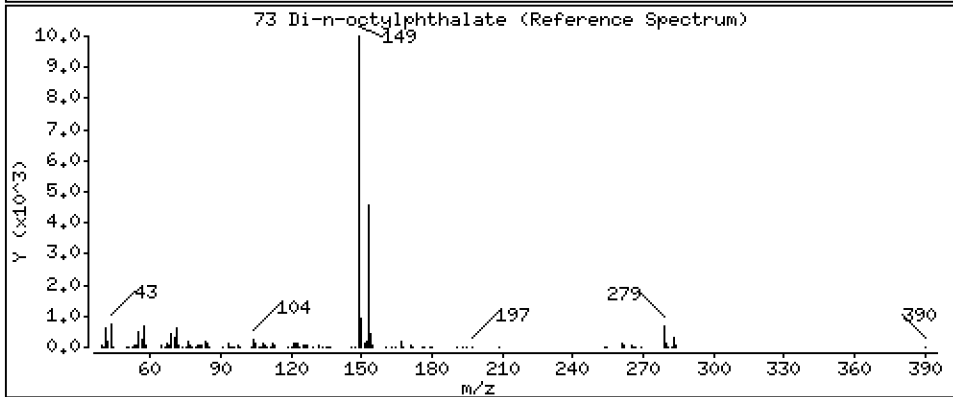
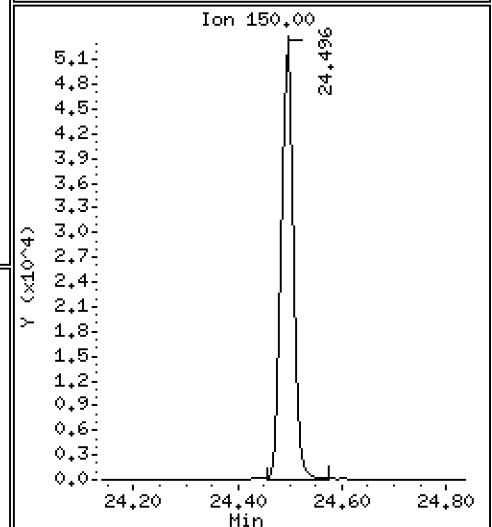
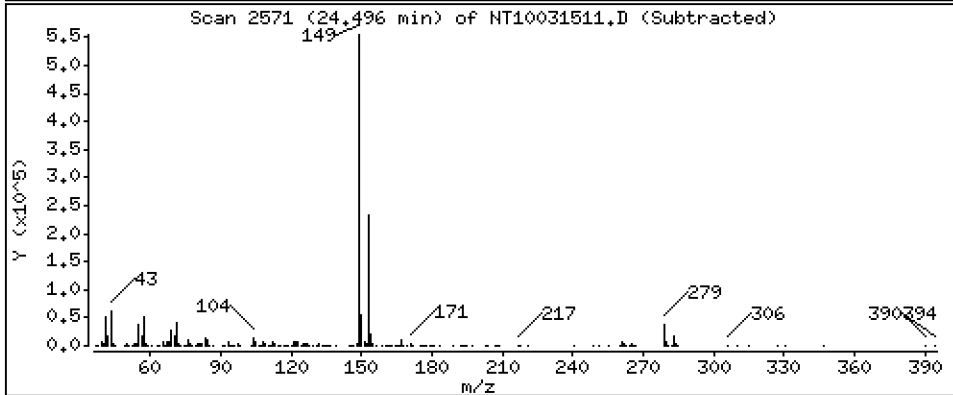
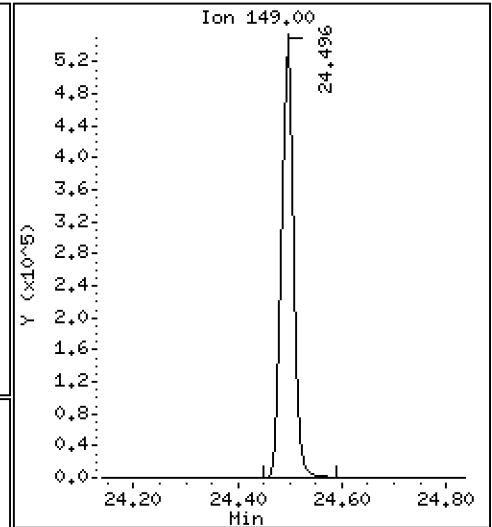
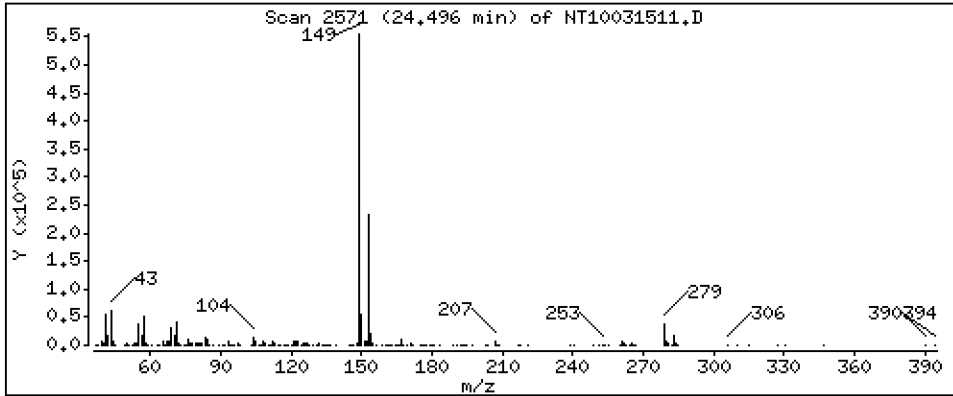
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 4,947 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

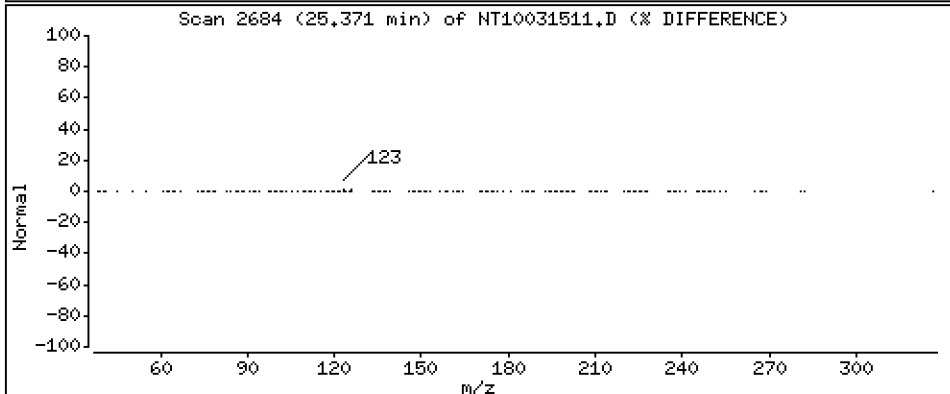
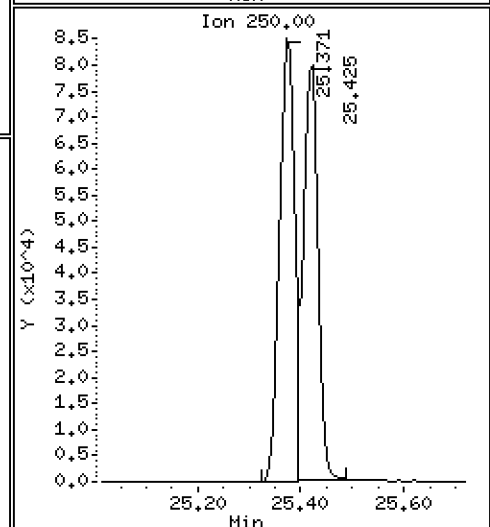
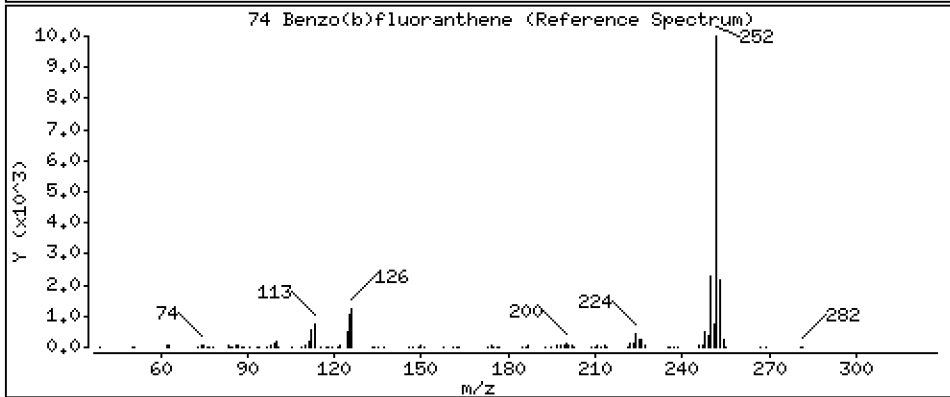
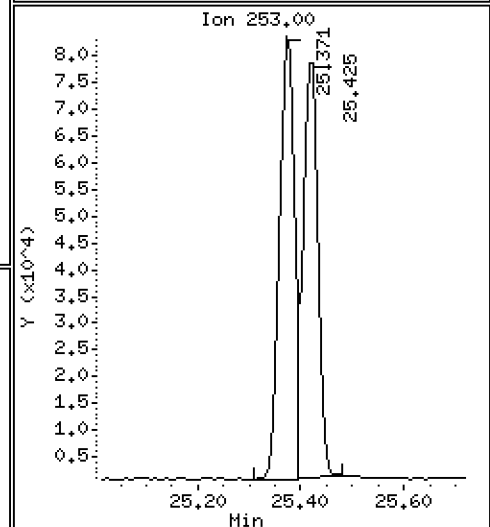
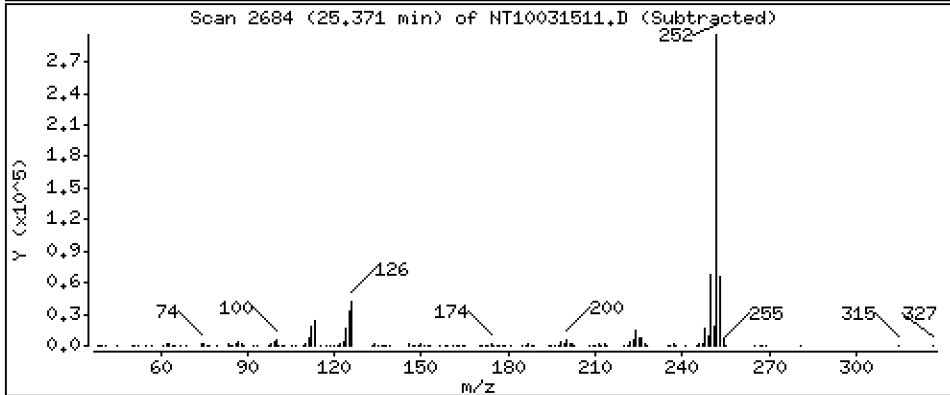
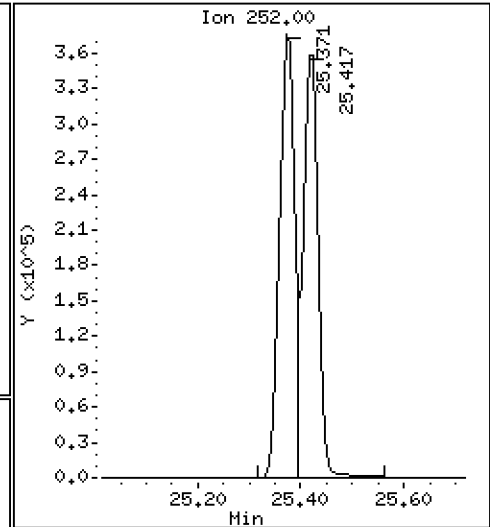
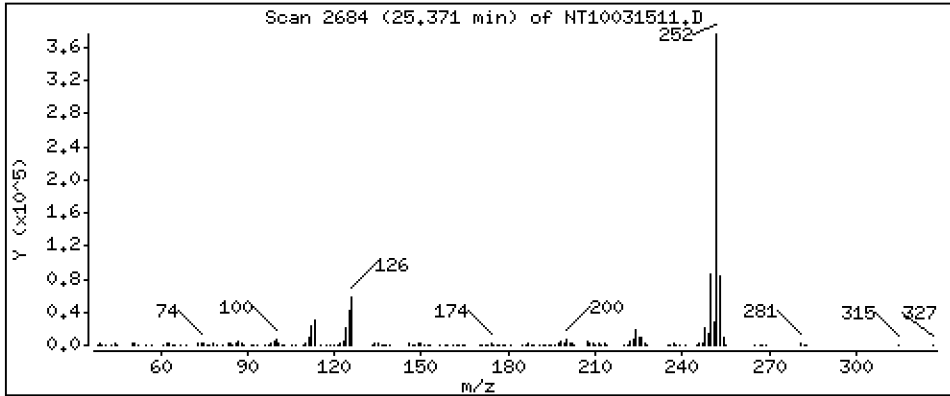
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 4,602 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

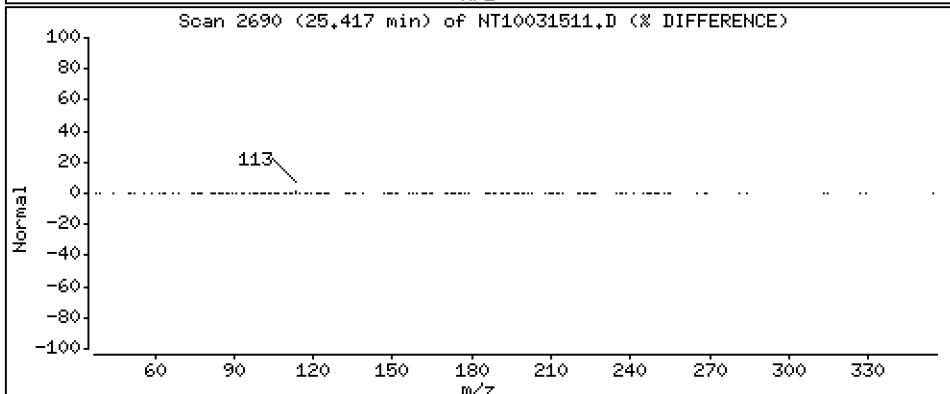
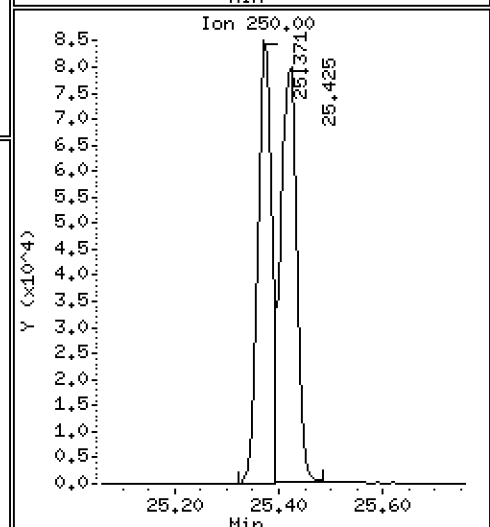
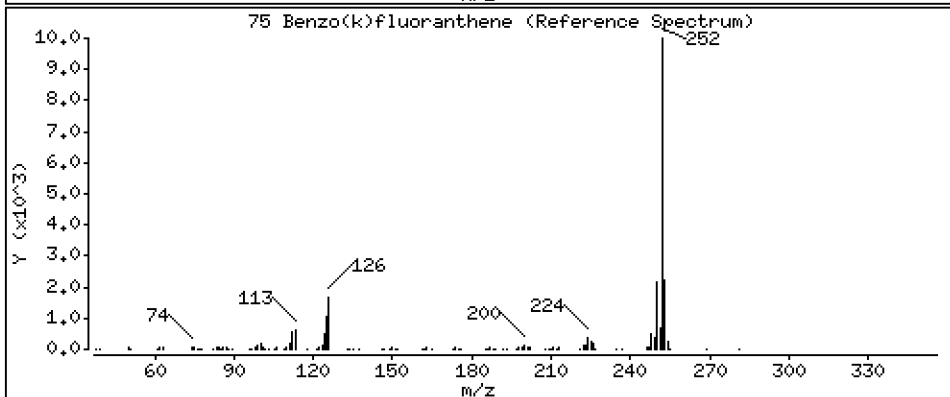
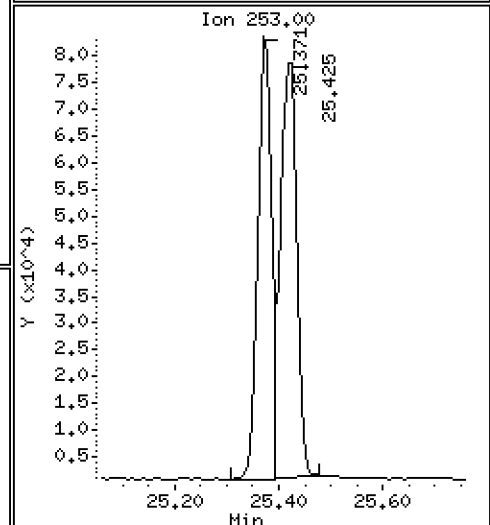
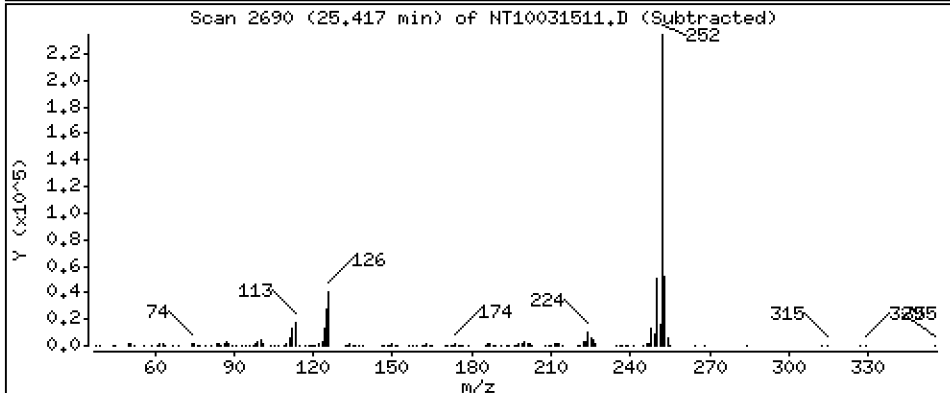
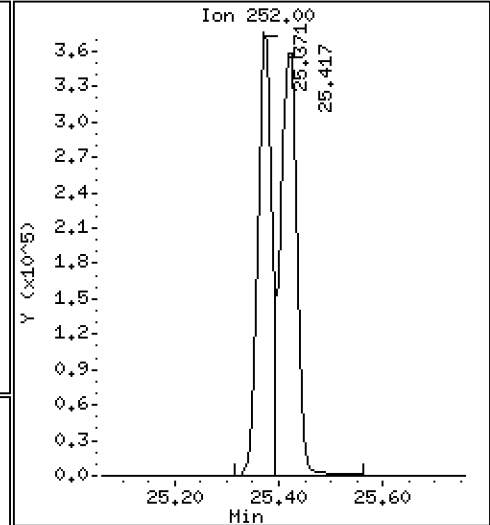
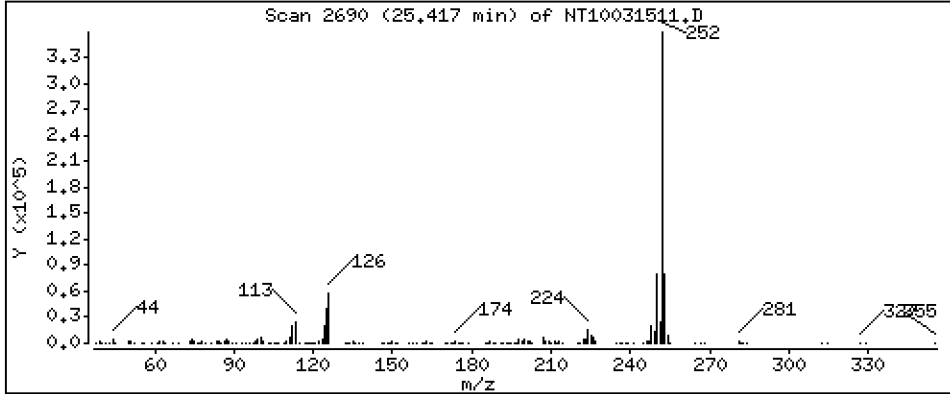
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 4,898 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

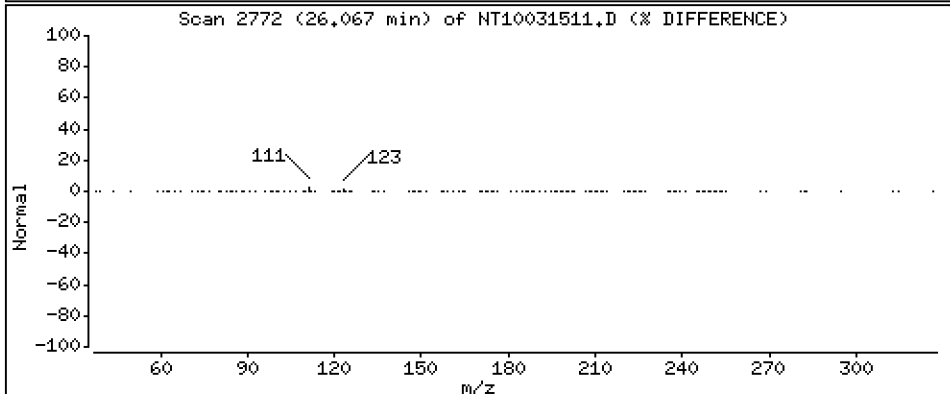
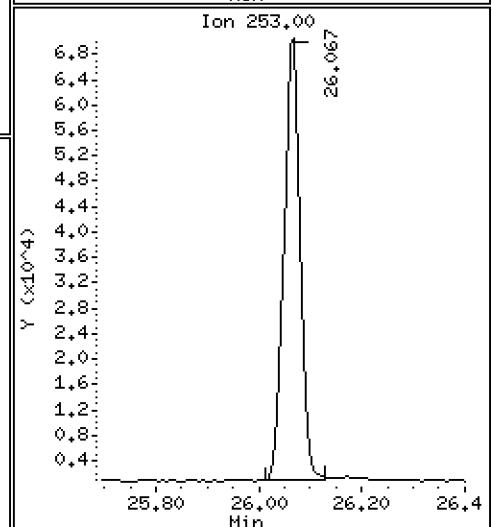
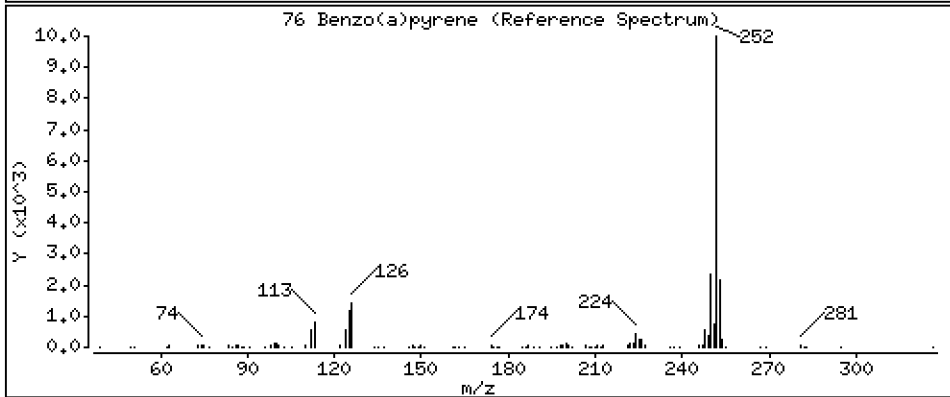
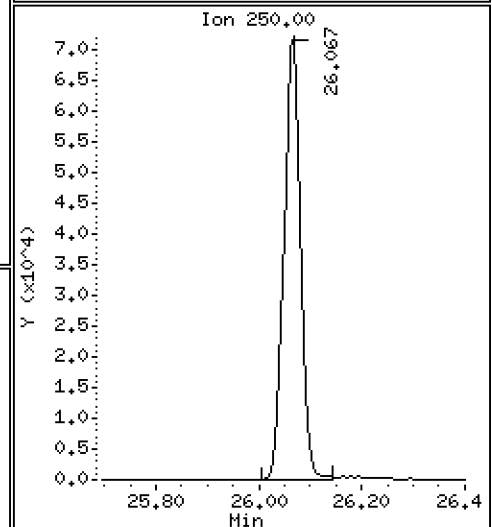
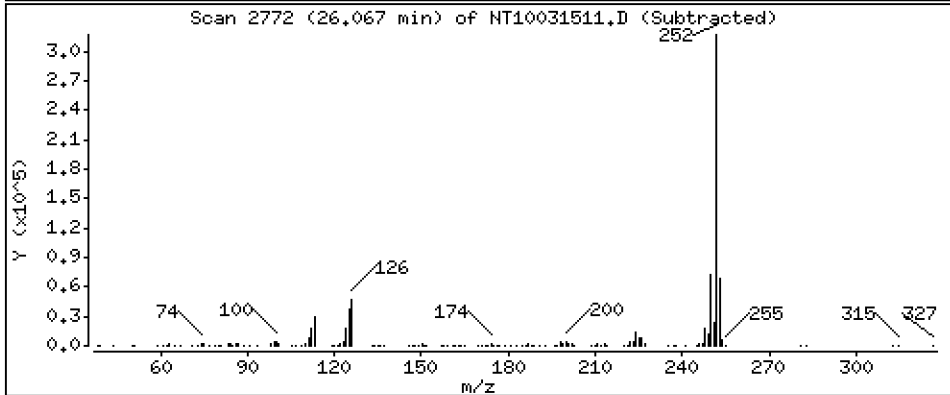
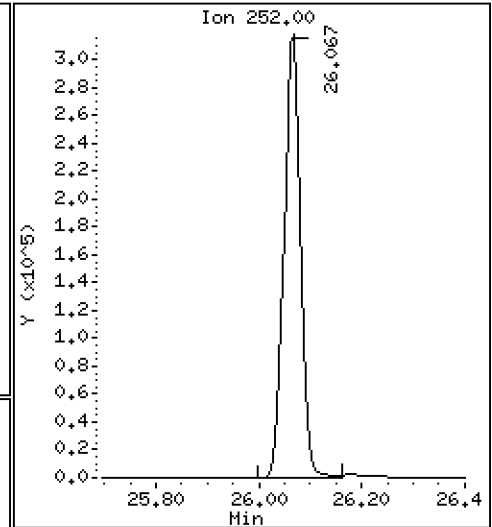
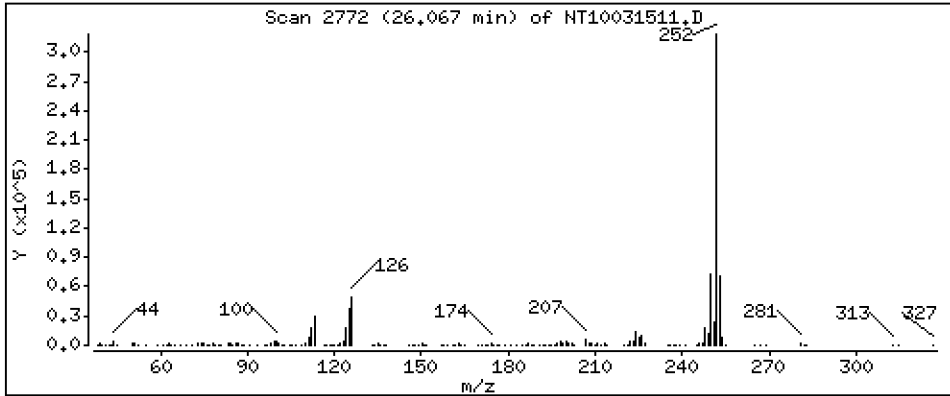
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 4,873 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

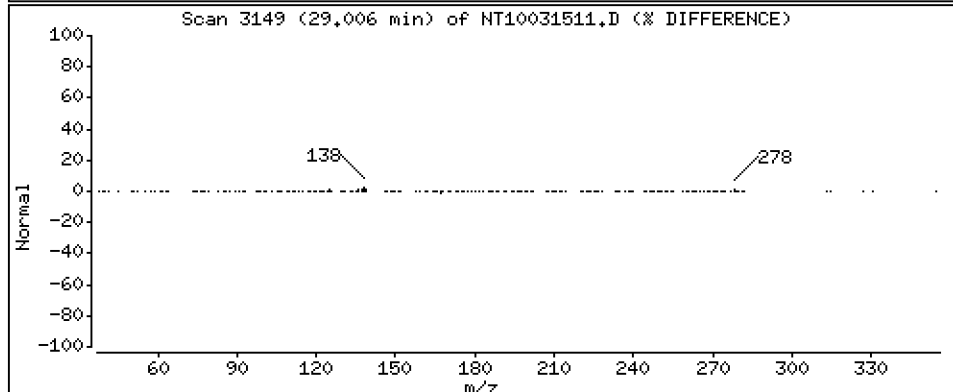
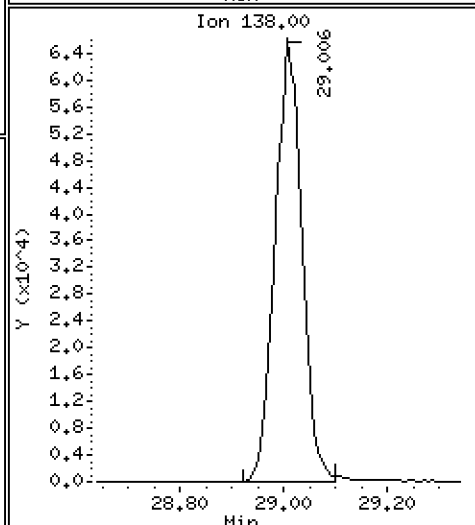
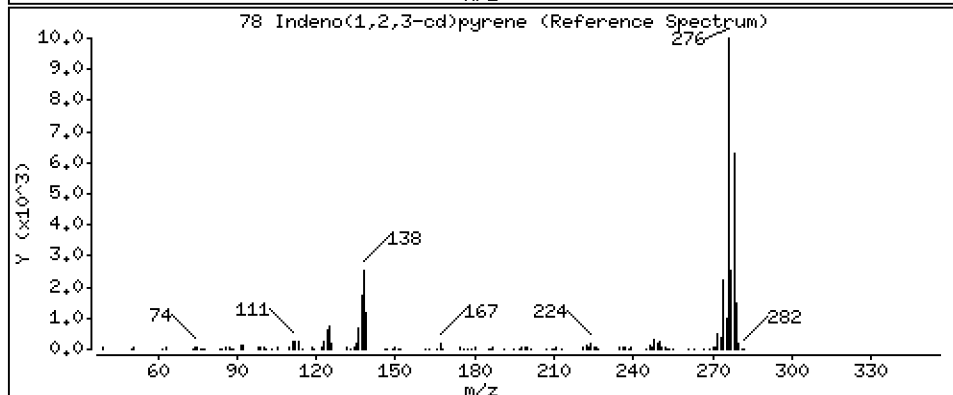
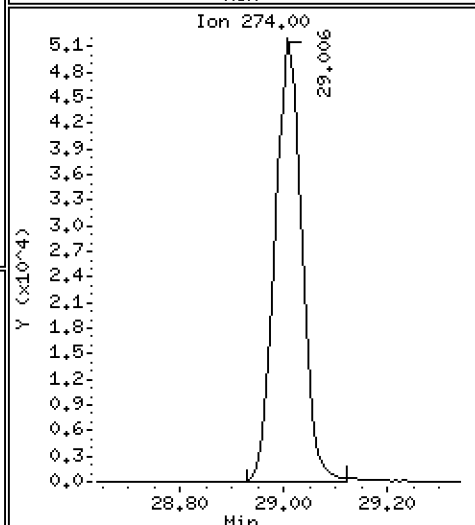
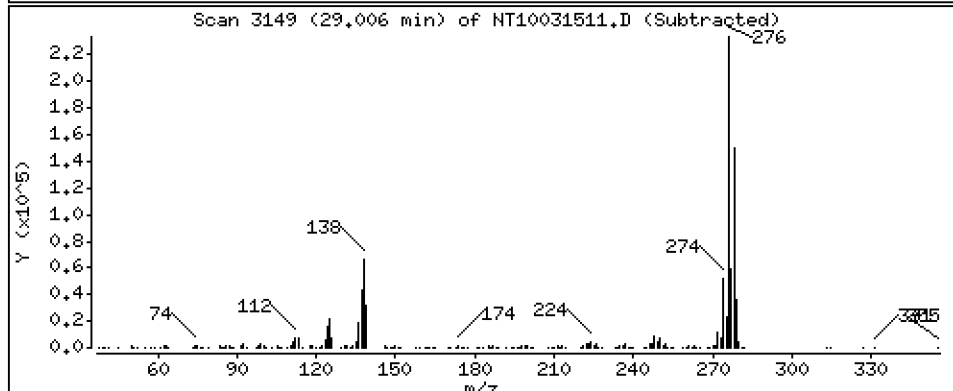
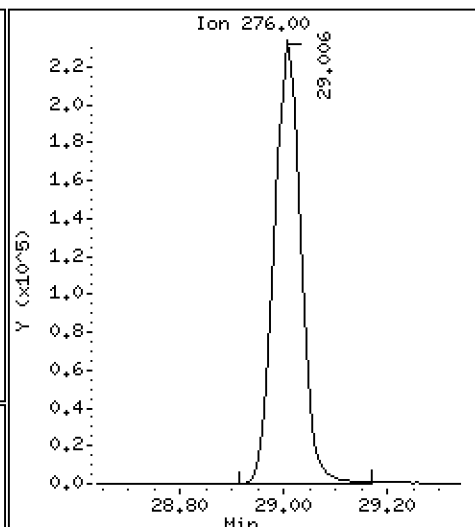
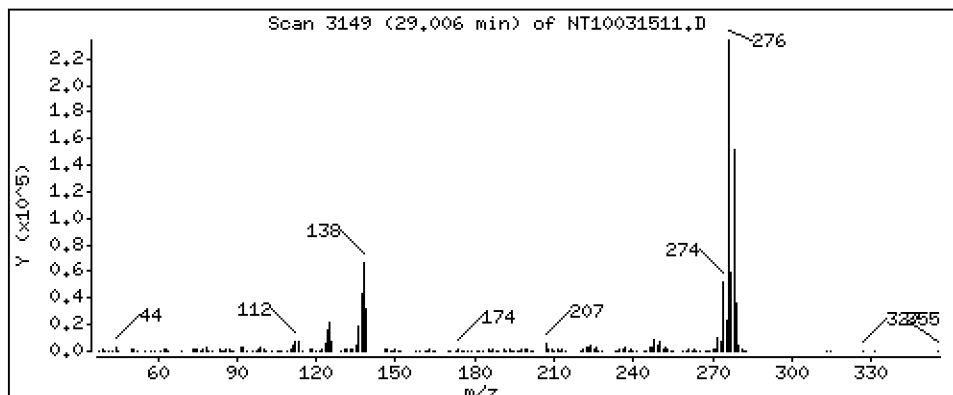
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 4,577 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

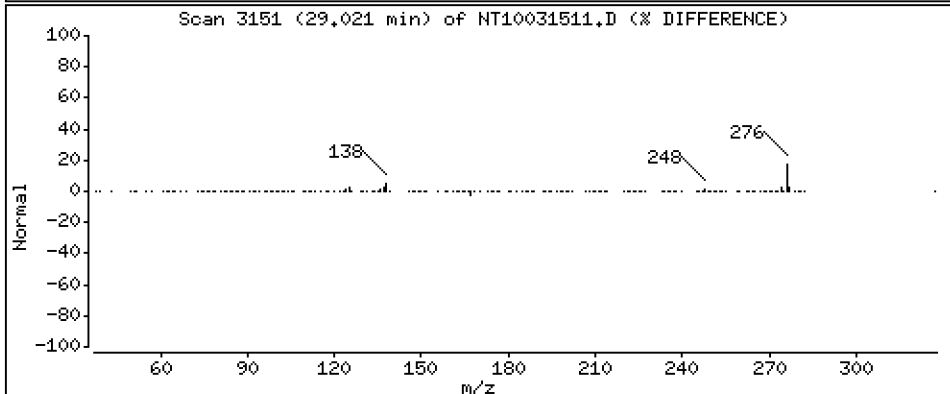
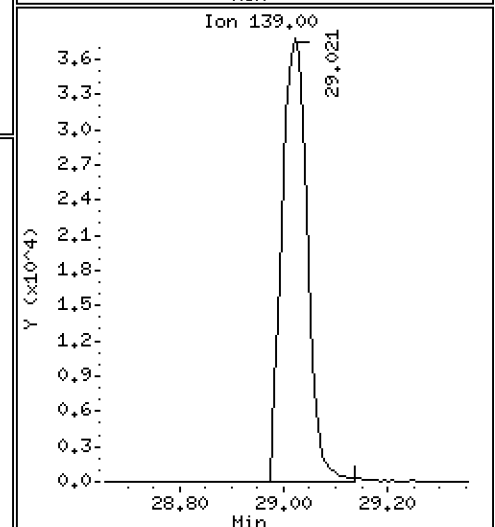
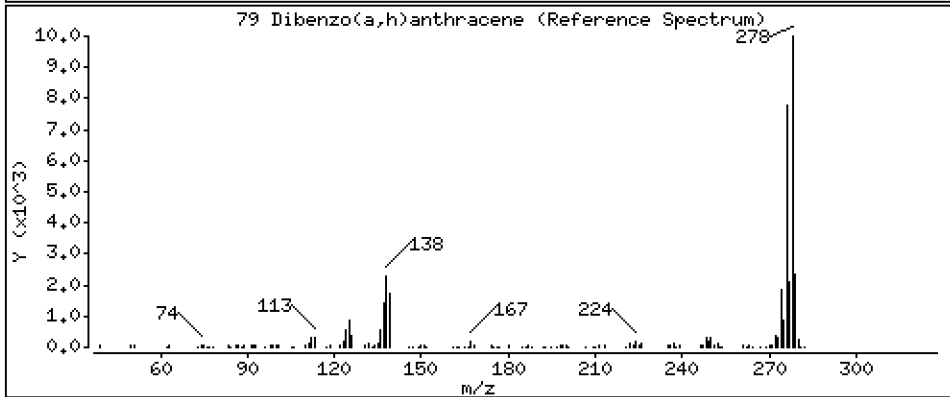
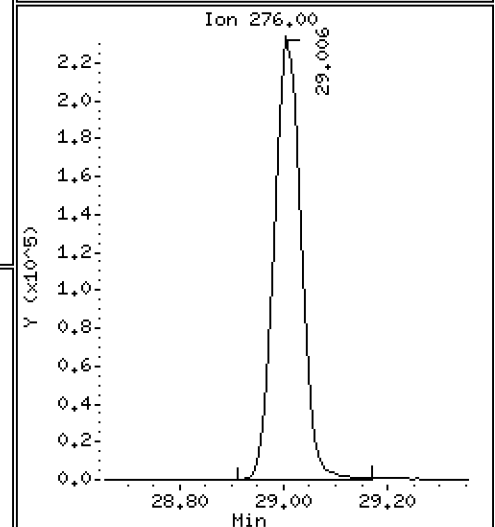
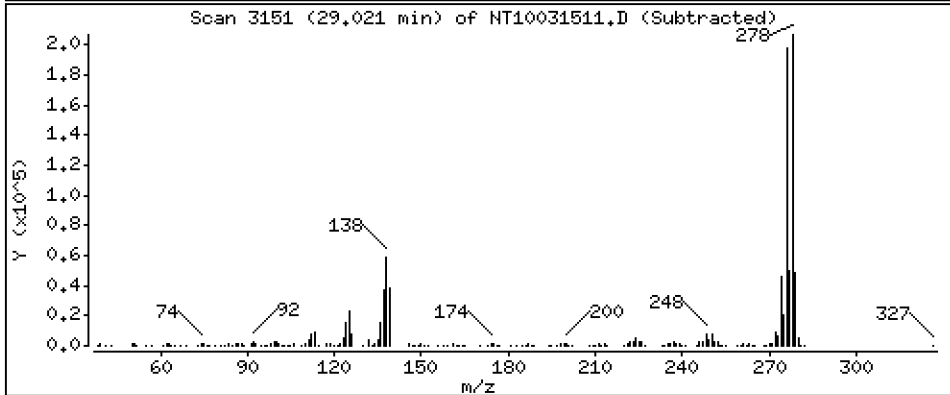
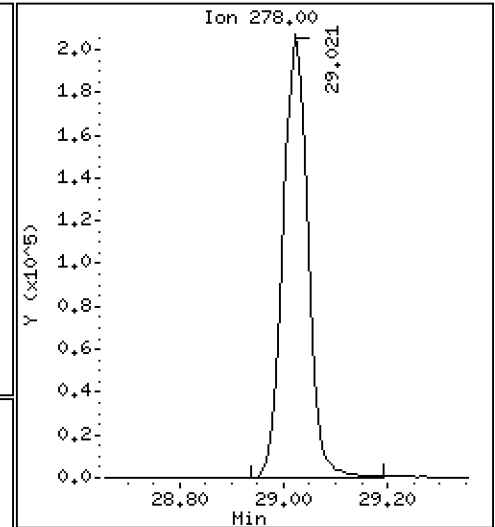
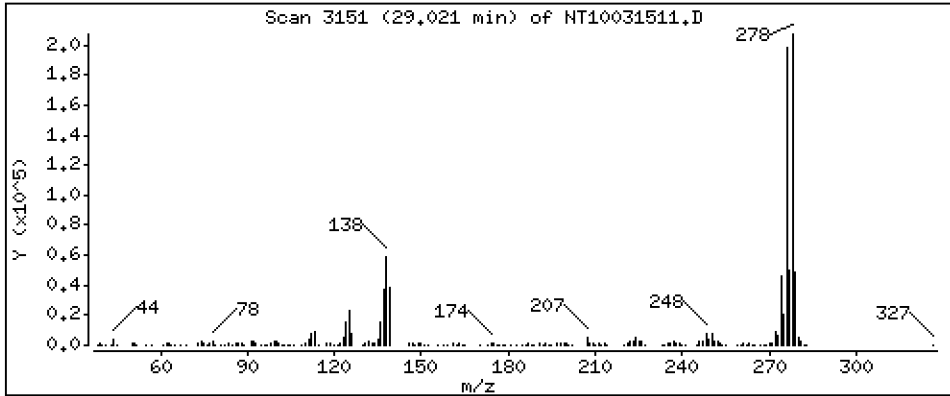
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 4,547 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

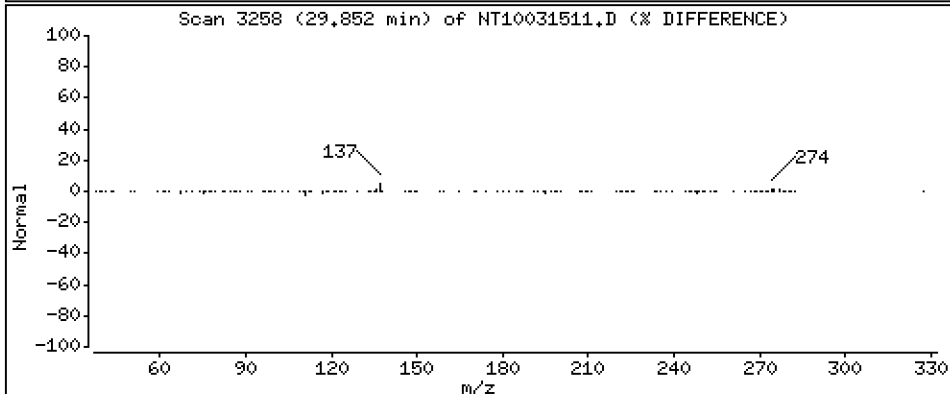
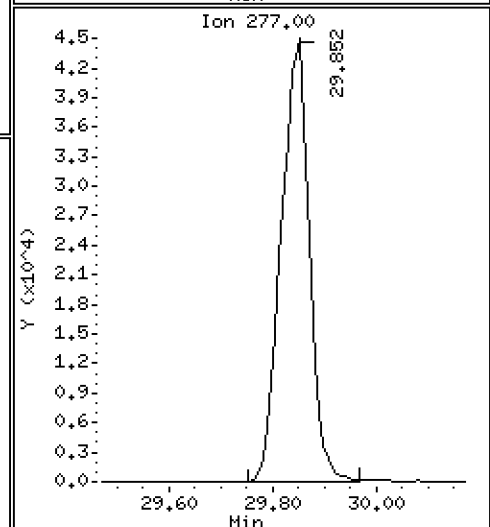
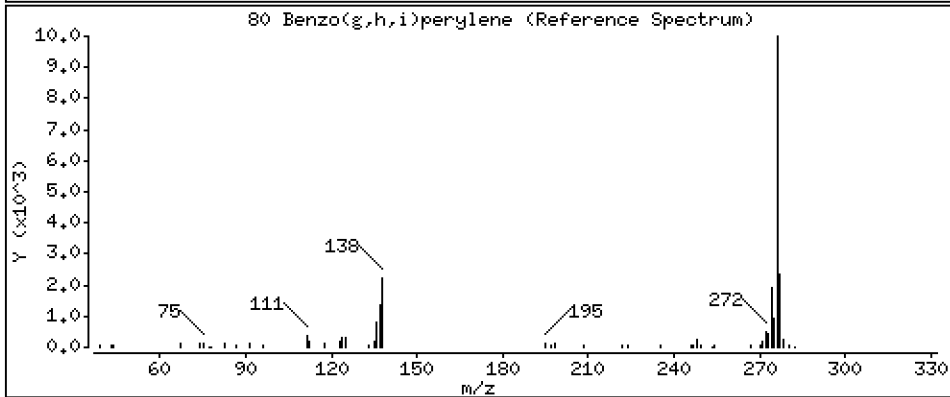
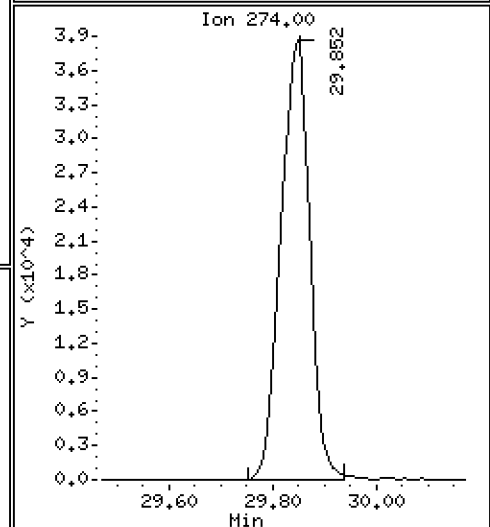
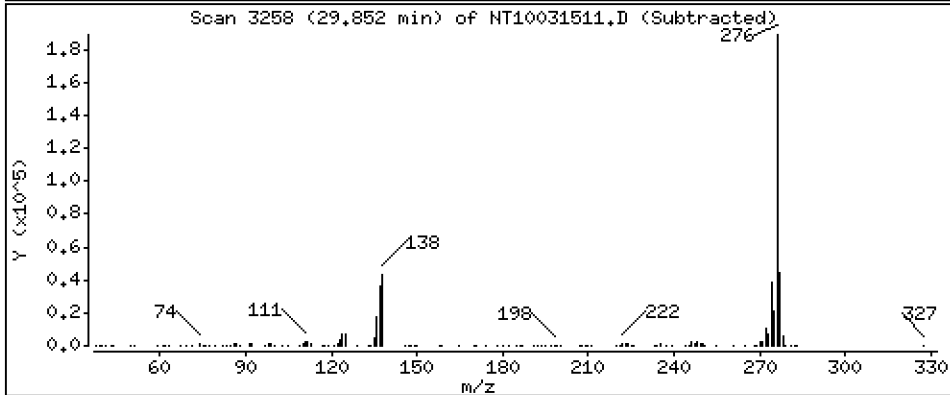
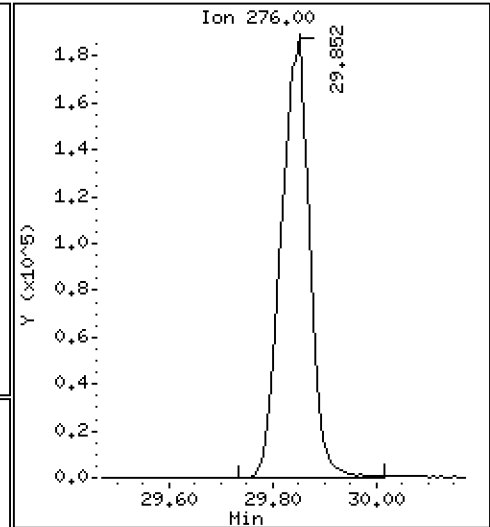
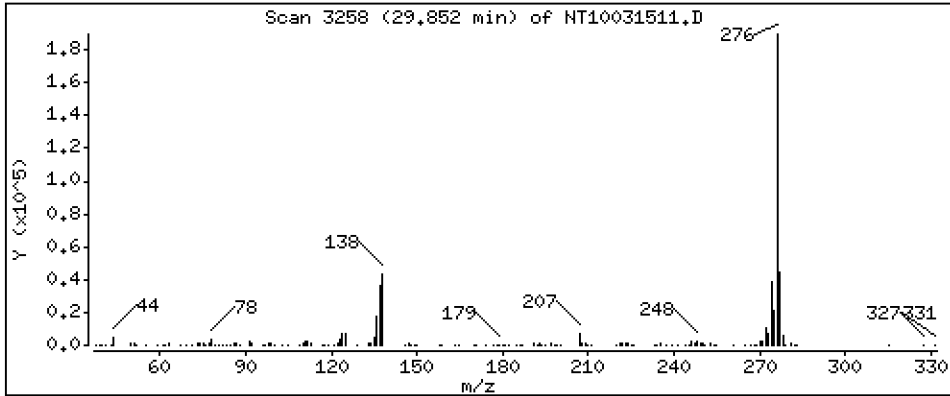
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 4,590 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

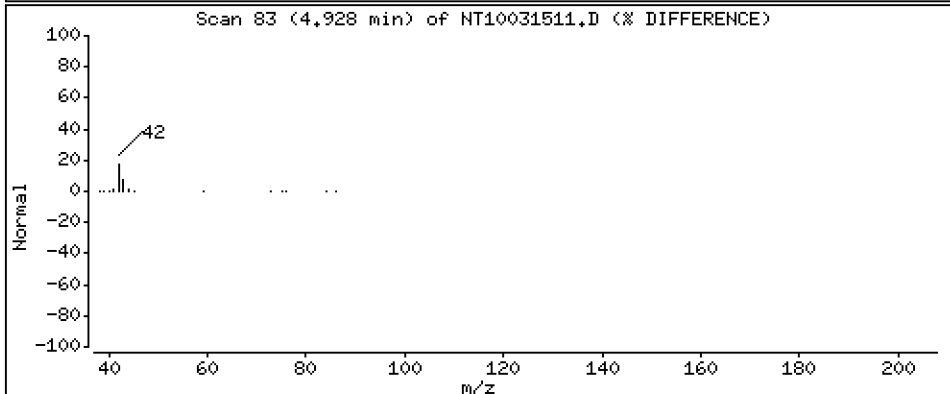
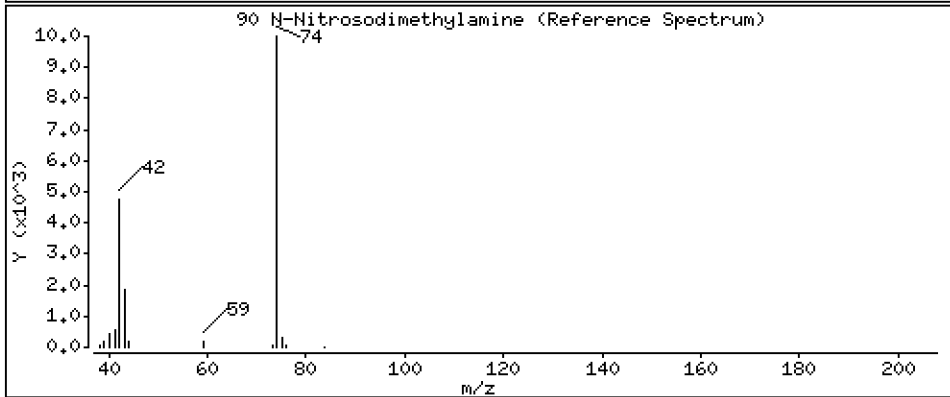
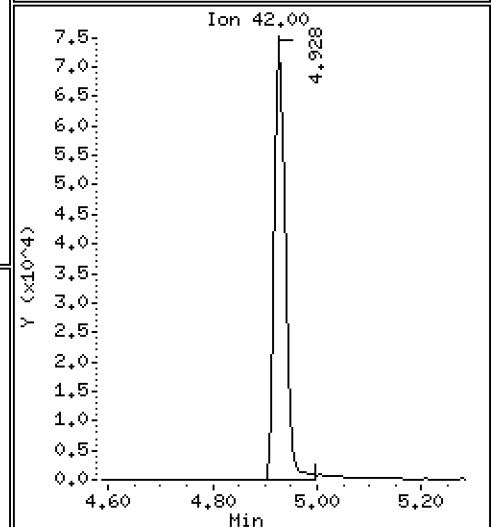
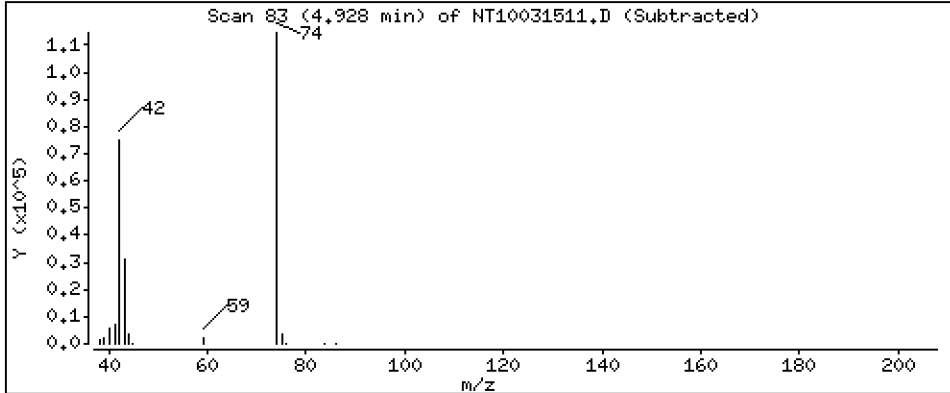
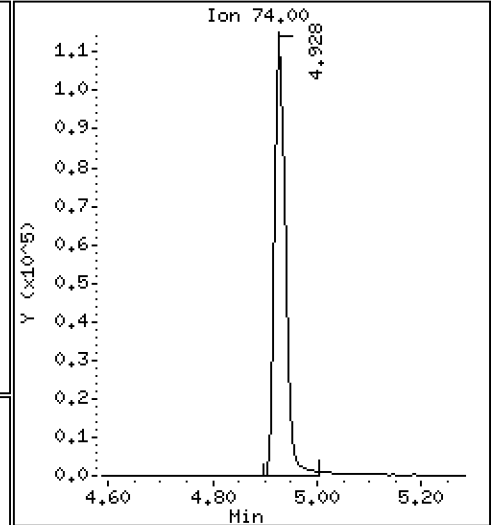
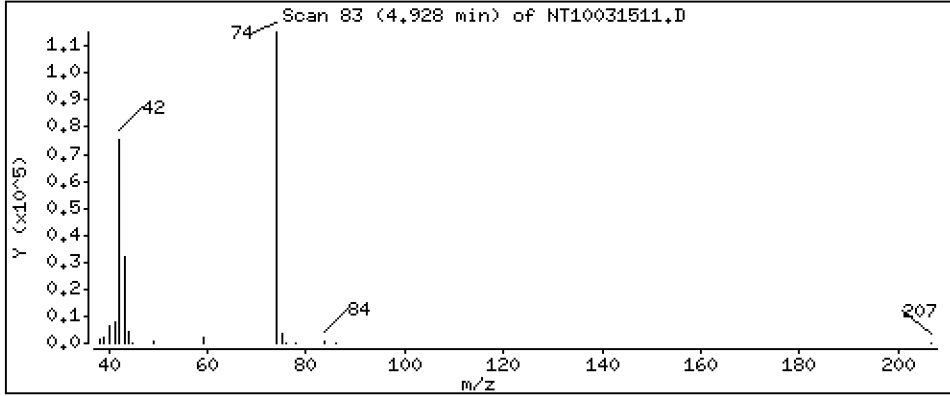
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

90 N-Nitrosodimethylamine

Concentration: 5.194 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

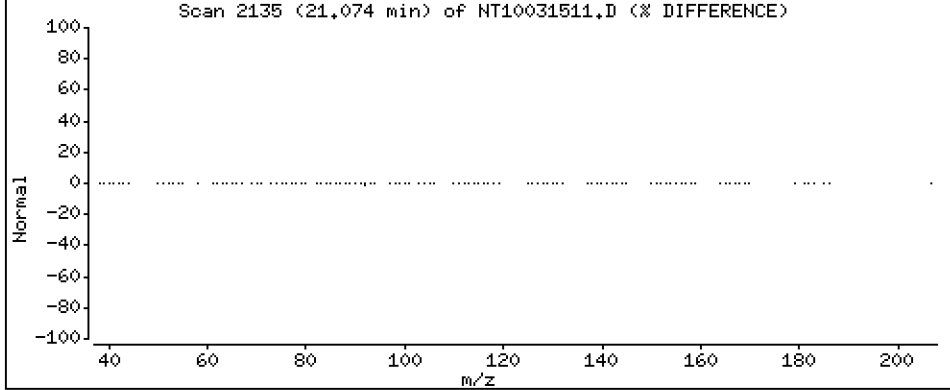
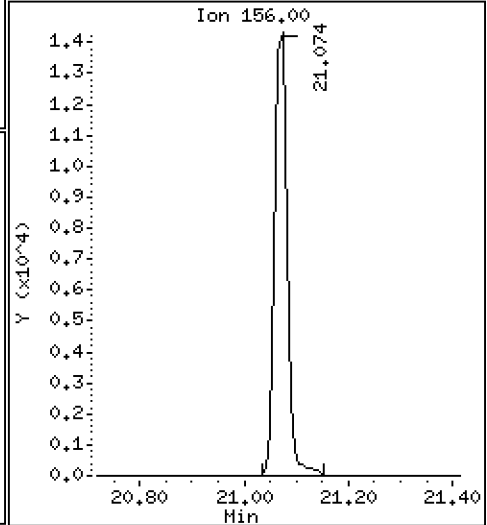
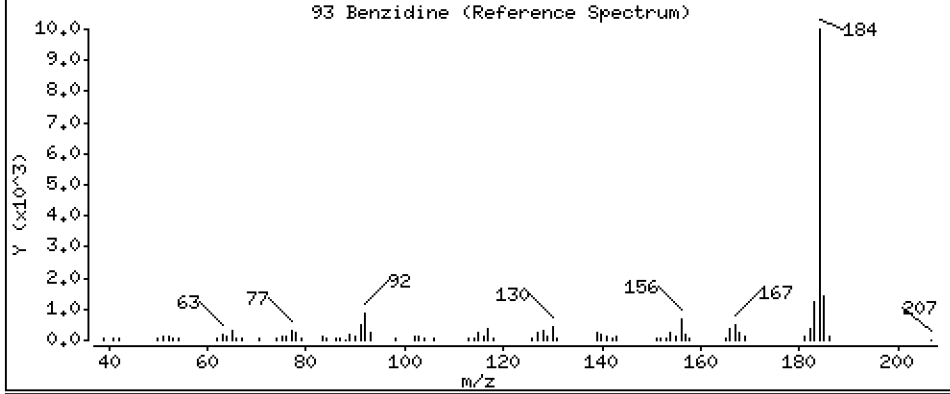
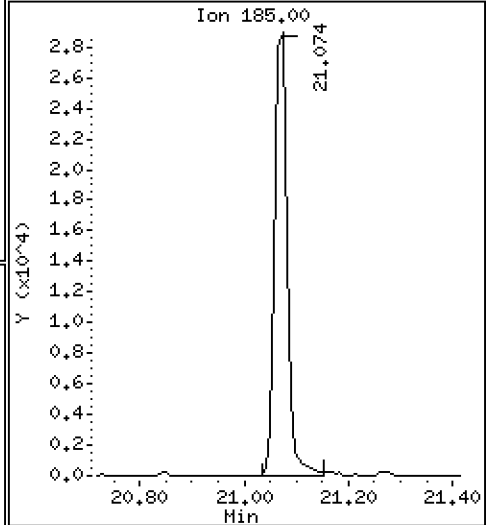
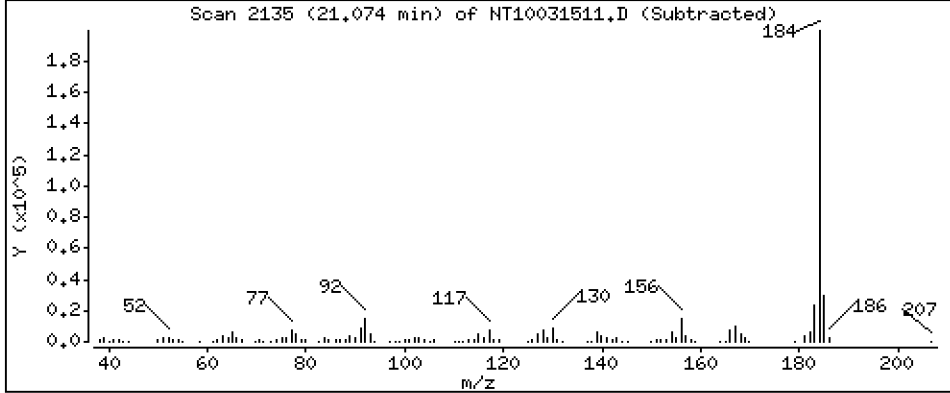
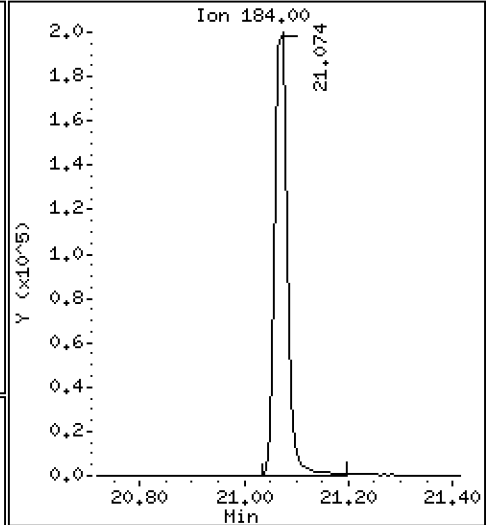
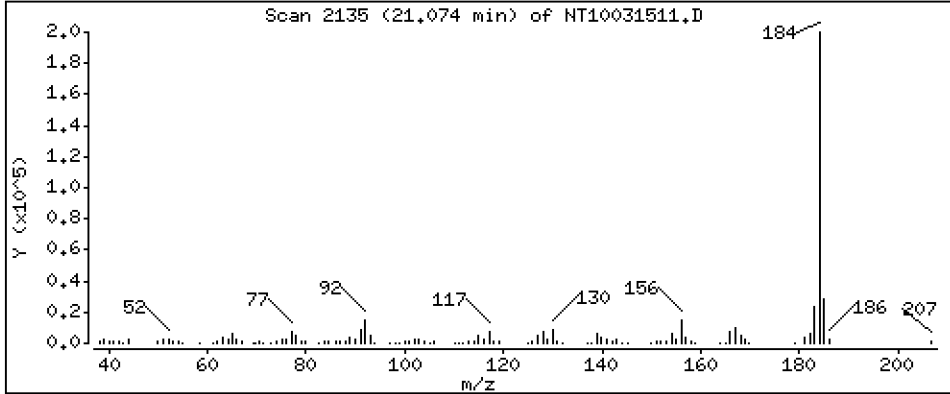
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

93 Benzidine

Concentration: 4,380 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

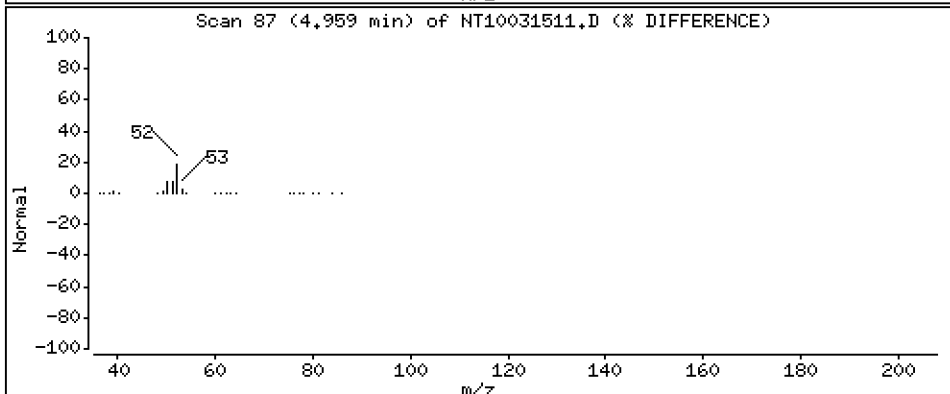
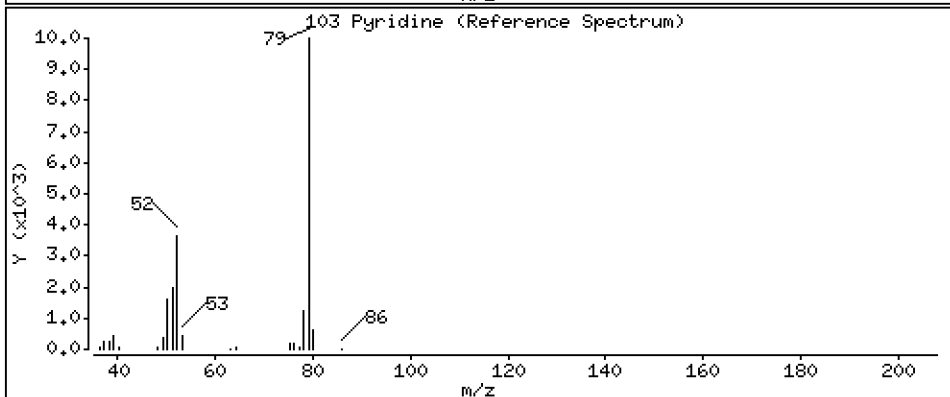
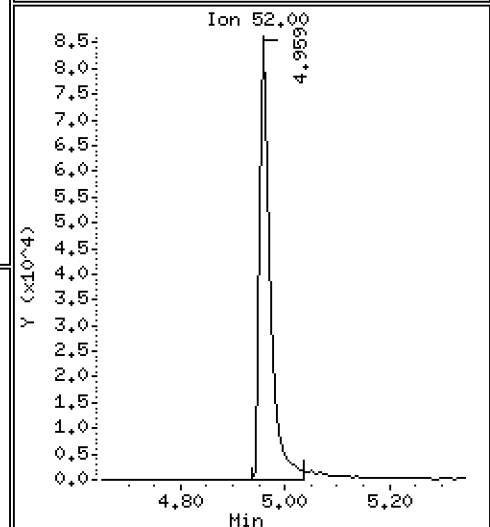
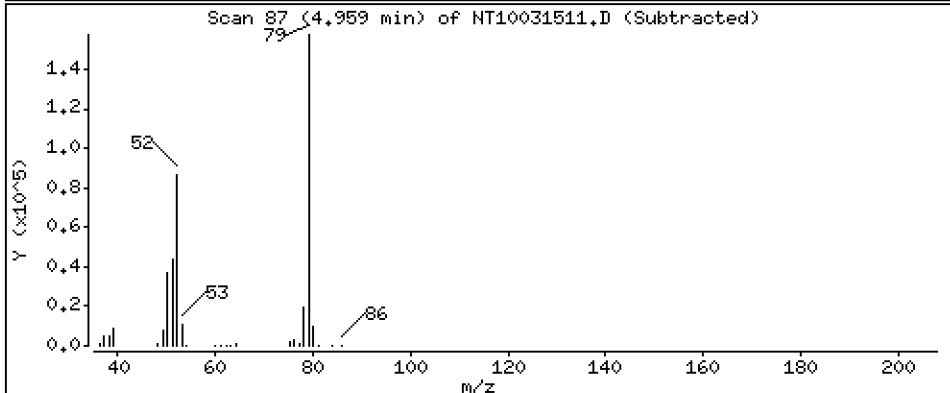
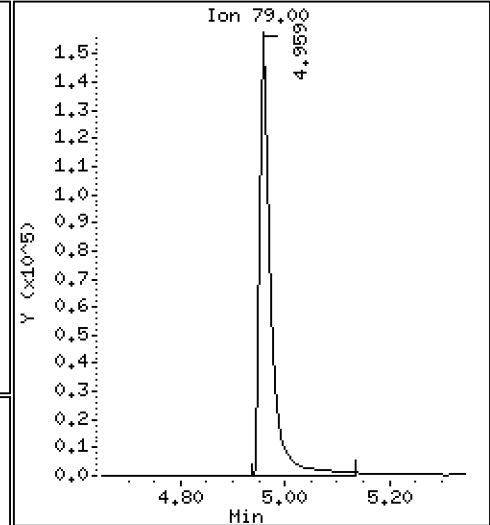
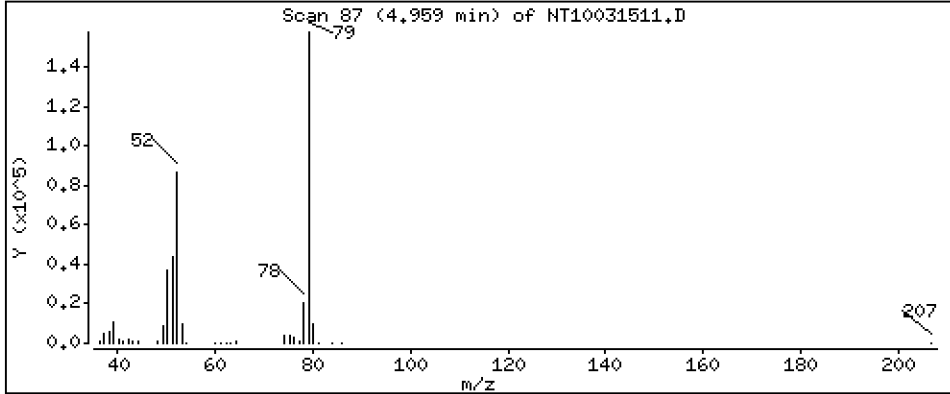
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

103 Pyridine

Concentration: 5.337 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

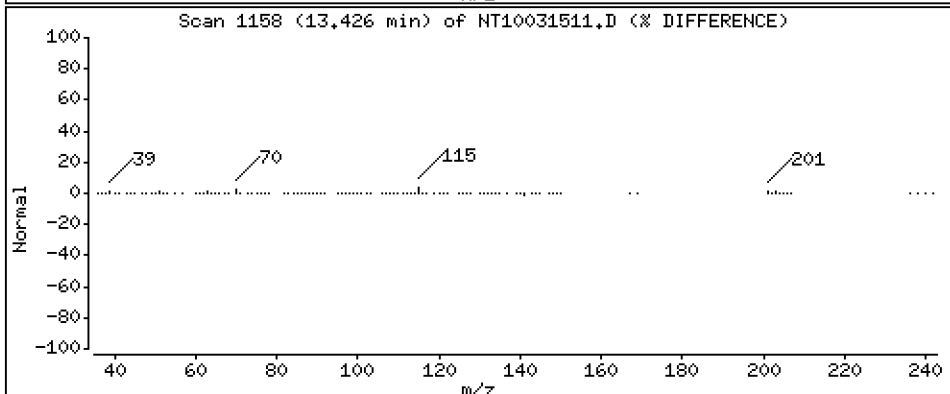
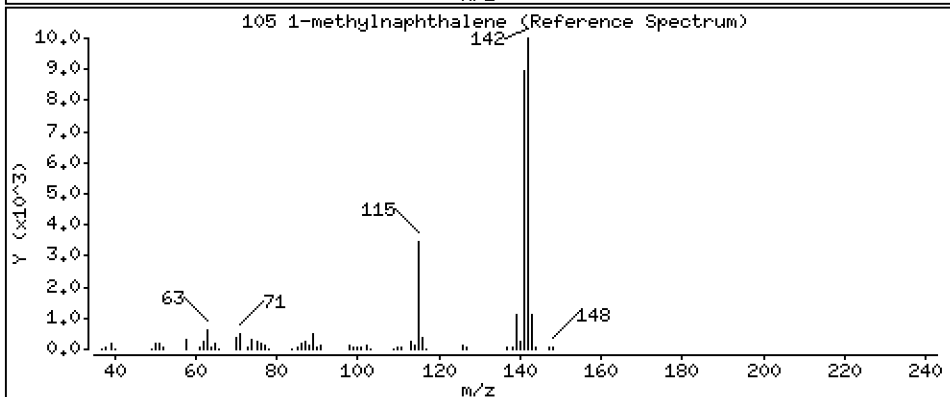
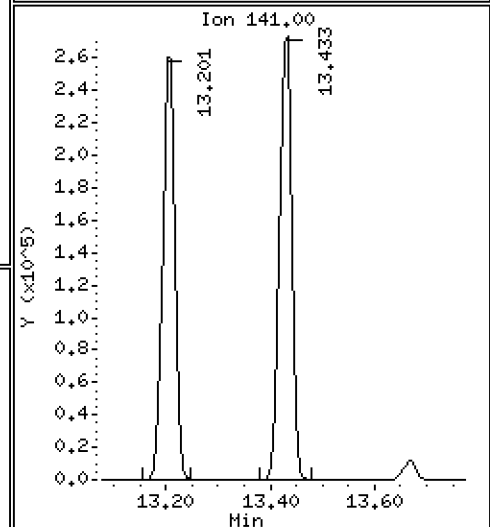
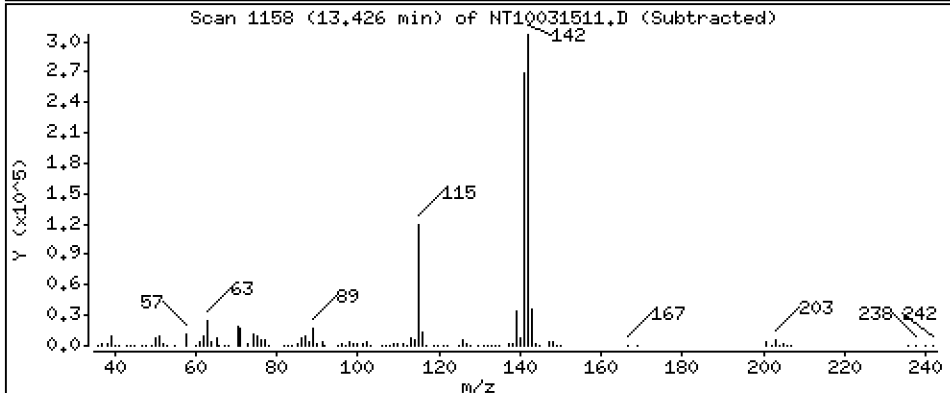
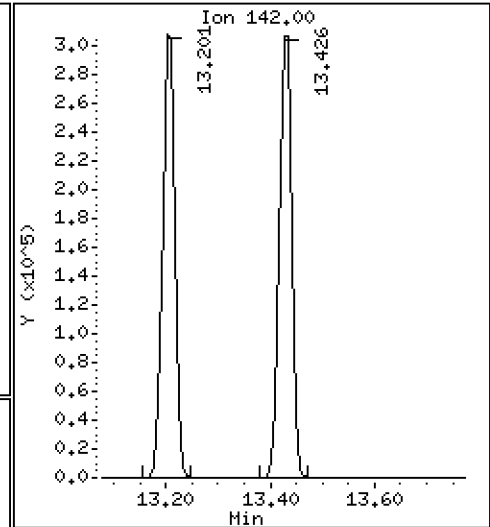
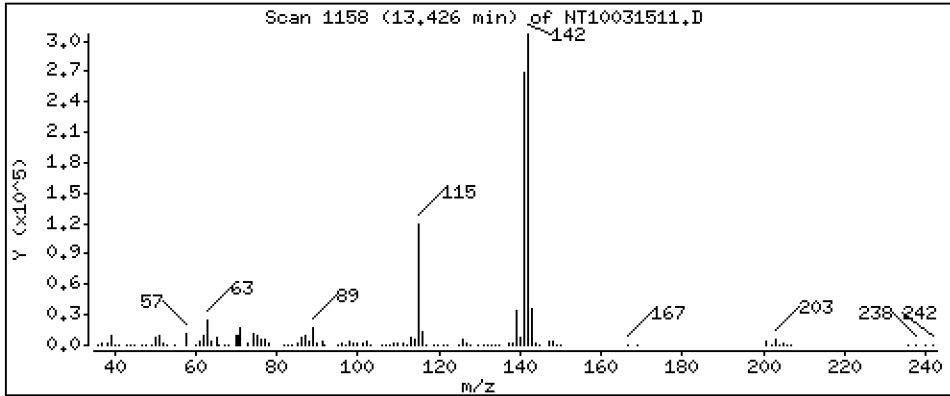
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 4,875 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

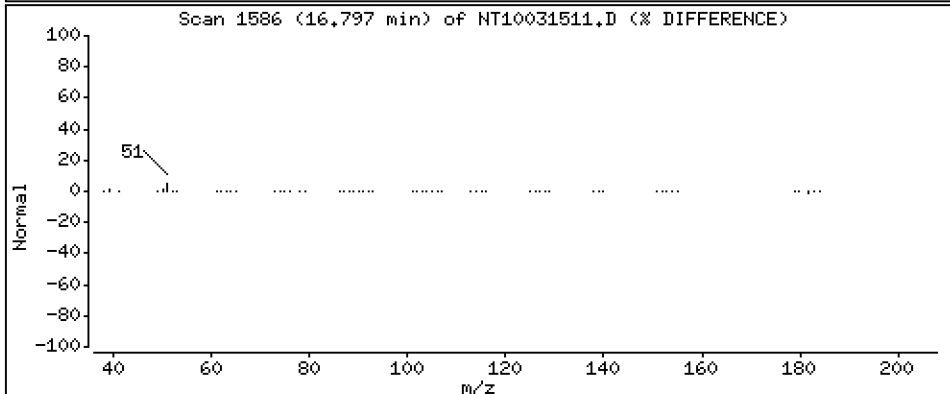
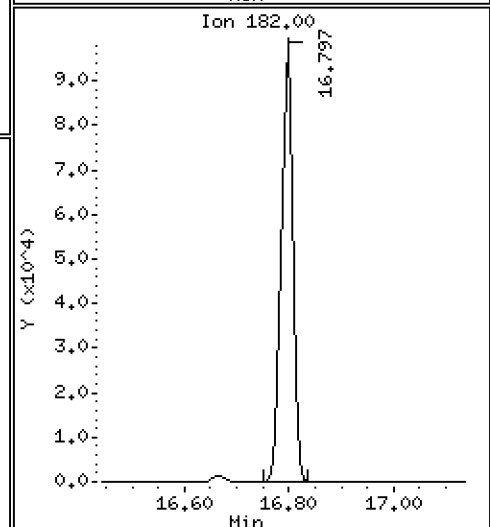
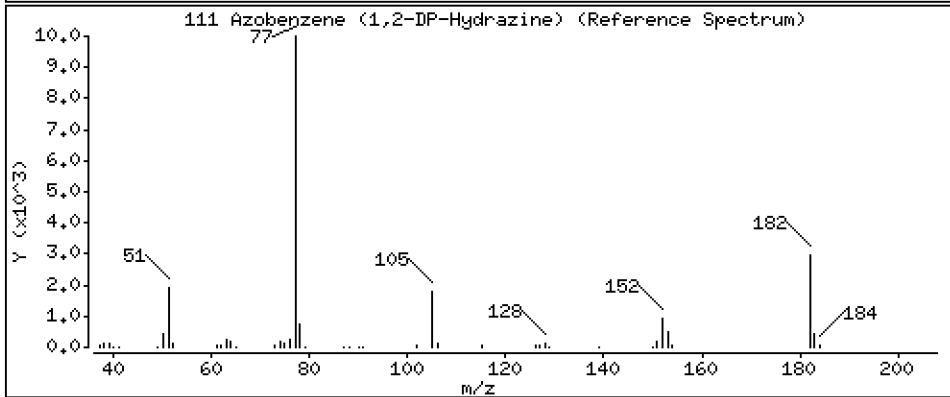
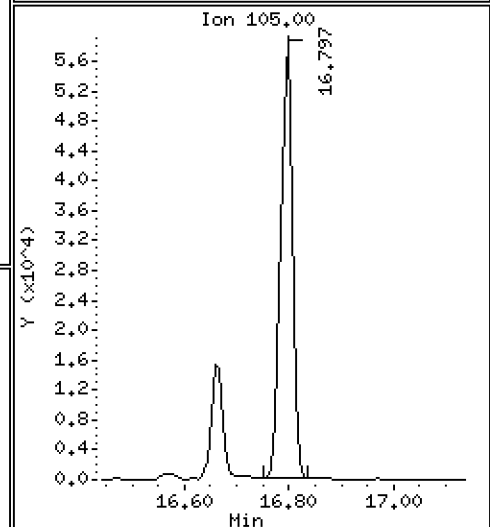
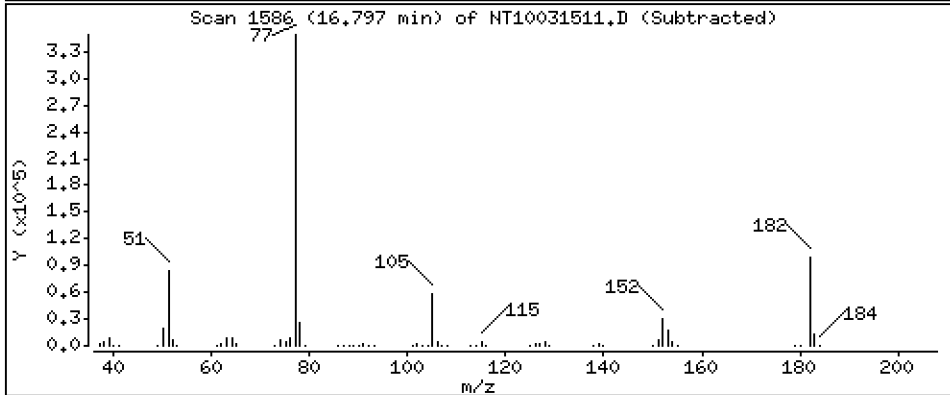
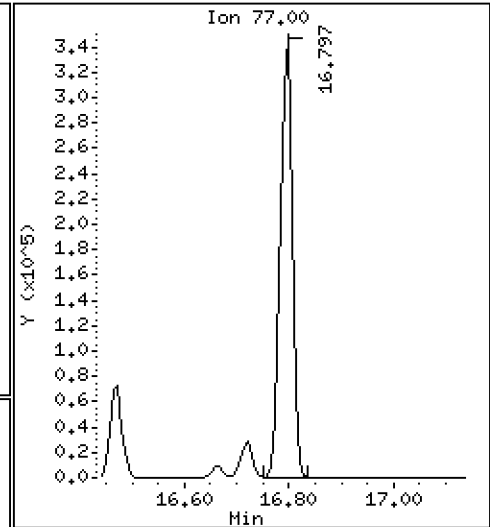
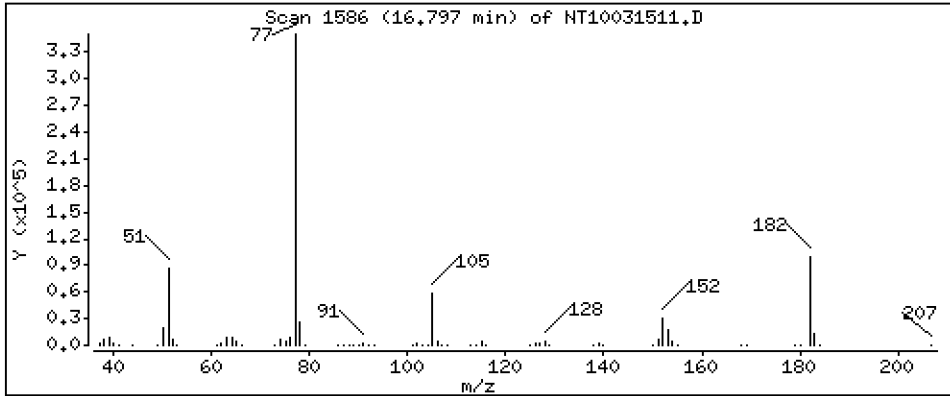
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 4.937 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

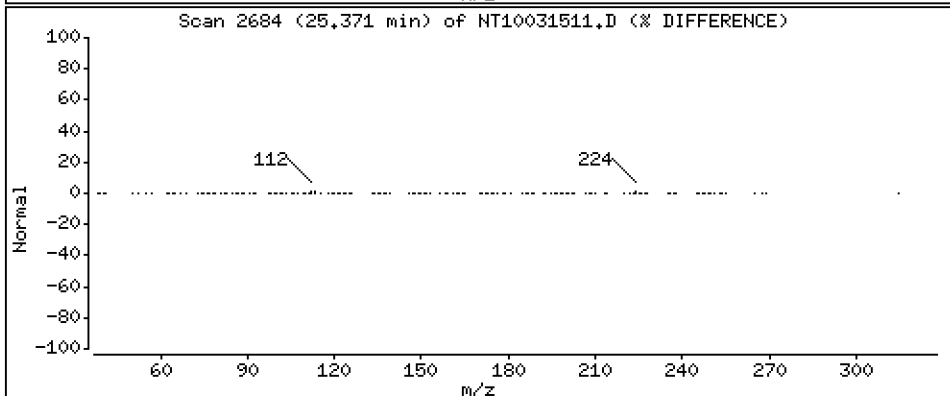
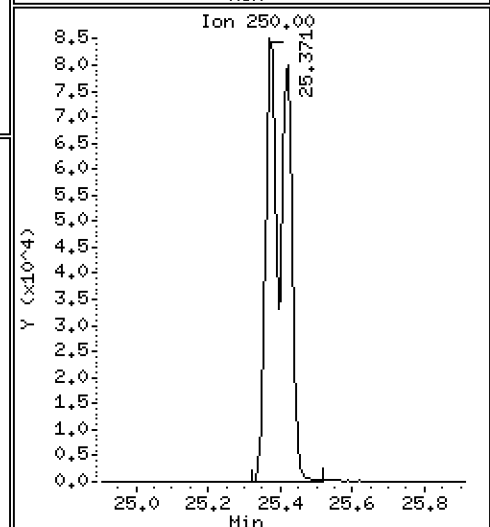
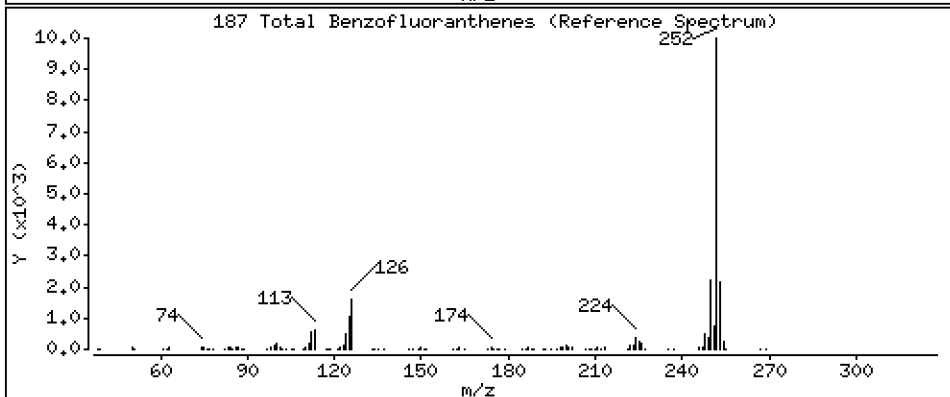
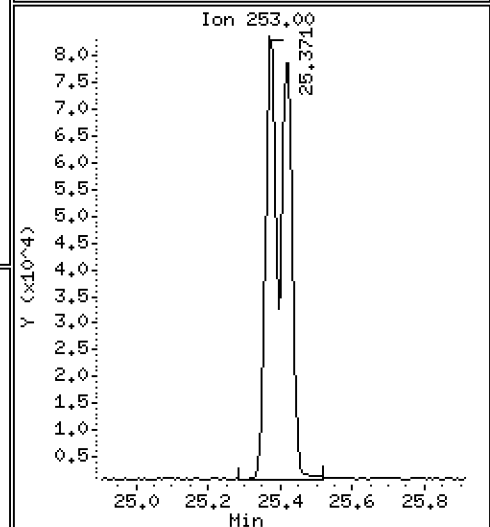
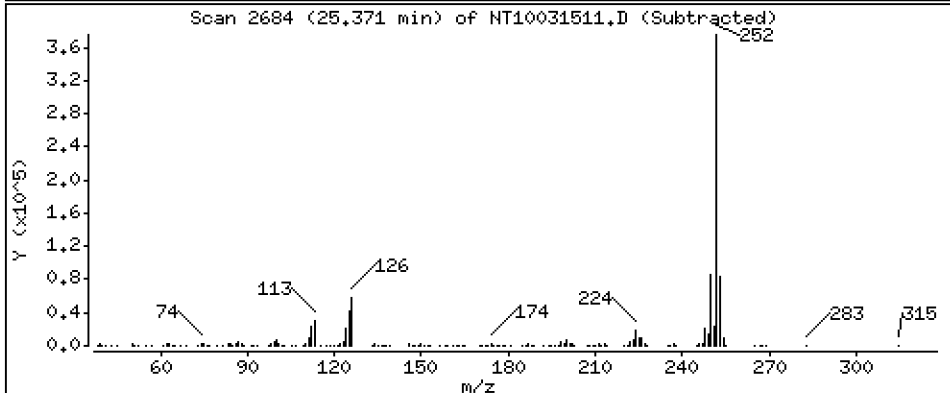
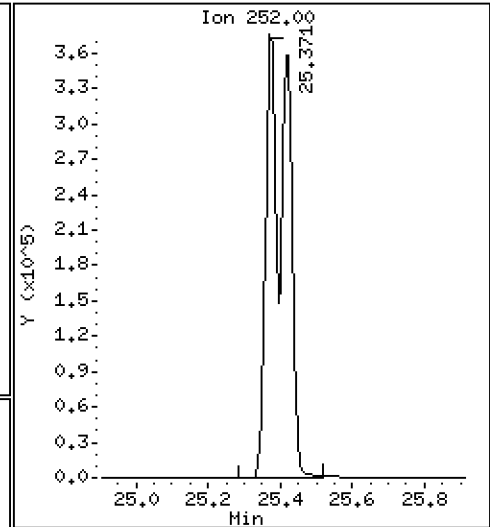
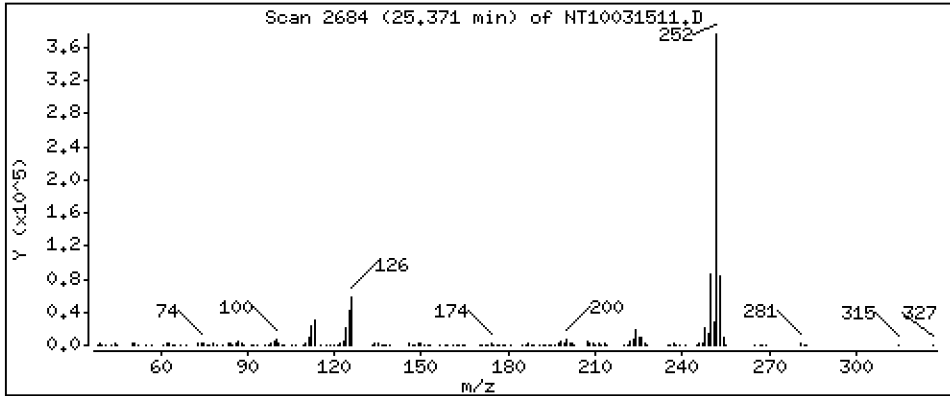
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 9,483 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

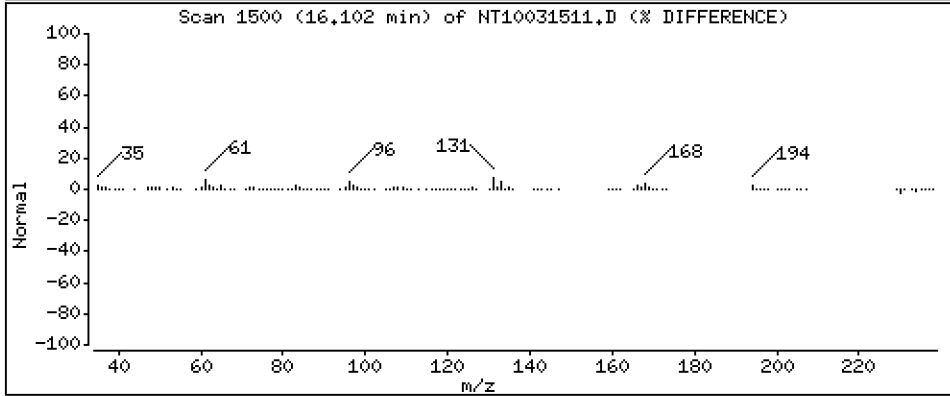
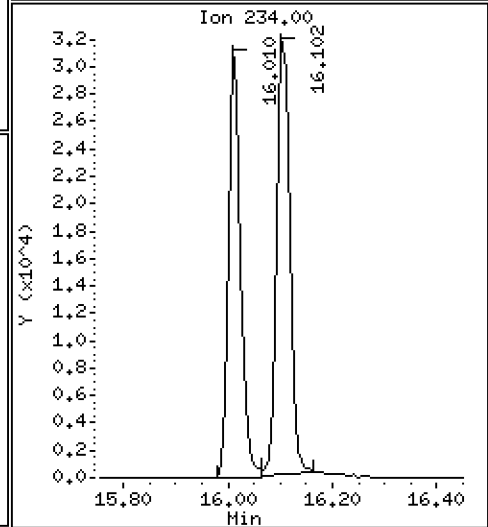
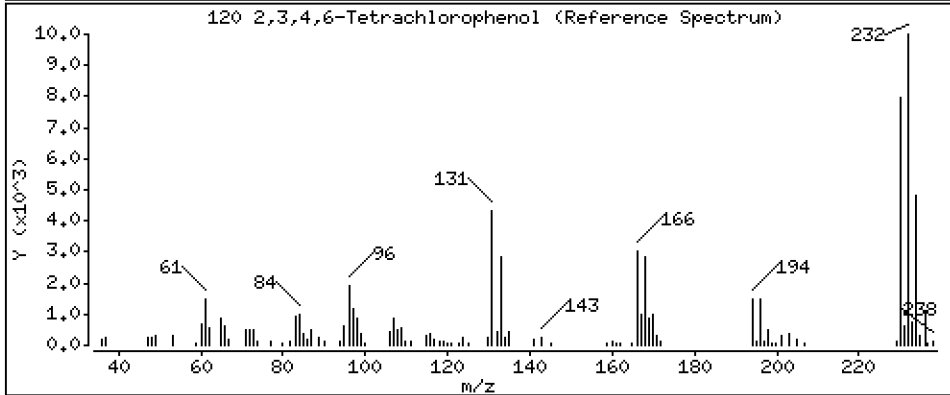
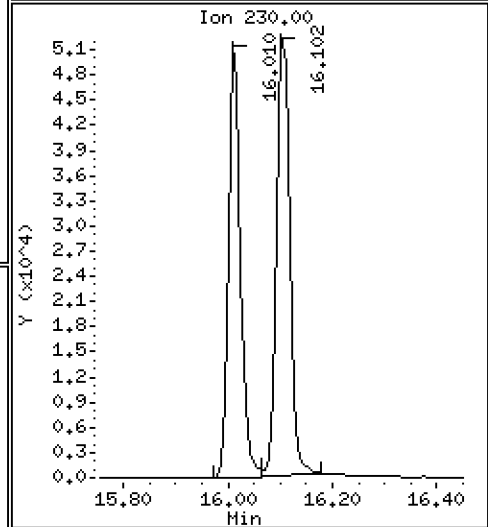
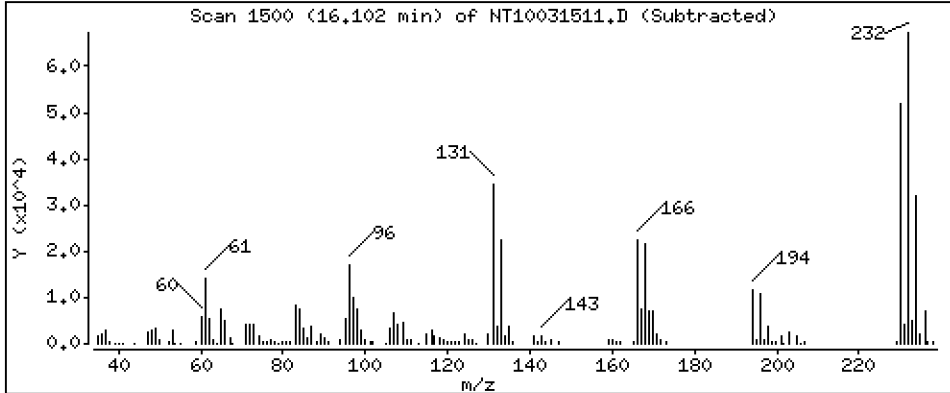
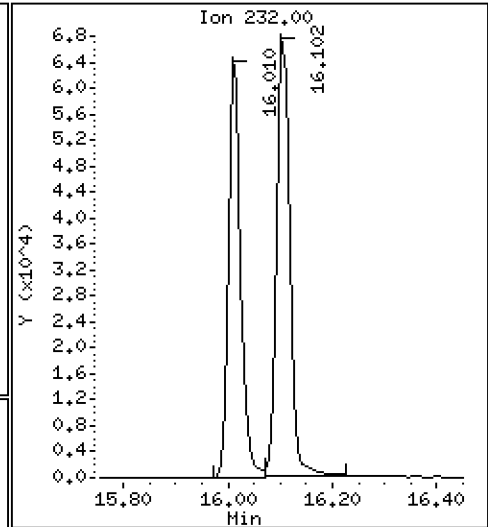
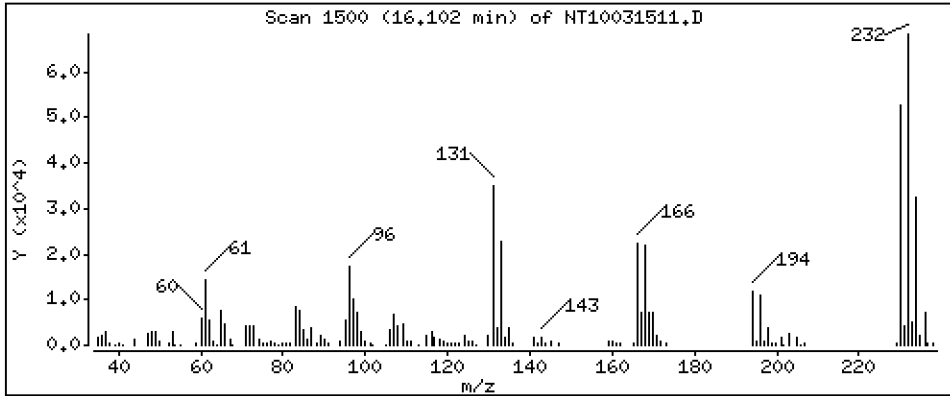
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

120 2,3,4,6-Tetrachlorophenol

Concentration: 3,980 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230315.b\NT10031511.D
 Lab Smp Id: SLC0228-SCV1
 Inj Date : 16-MAR-2023 02:16
 Operator : VTS Inst ID: nt10.i
 Smp Info : SLC0228-SCV1
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt10.i\20230315.b\ABN.m
 Meth Date : 16-Mar-2023 12:06 van Quant Type: ISTD
 Cal Date : 16-MAR-2023 00:22 Cal File: NT10031508.D
 Als bottle: 11
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: ICAL.sub
 Target Version: 4.14
 Processing Host: VANS-201906

| Compounds | QUANT | SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|---------------------------------|-------|-----|--------|--------|---------|------------------------|----------------|---------|
| | | | | | | | ON-COLUMN | FINAL |
| | MASS | | | | | | (ug/mL) | (ug/mL) |
| ===== | ==== | | ==== | ===== | ===== | ===== | ===== | ===== |
| \$ 1 2-Fluorophenol | 112 | | | | | Compound Not Detected. | | |
| \$ 2 Phenol-d5 | 99 | | | | | Compound Not Detected. | | |
| 3 Phenol | 94 | | 8.659 | 8.652 | (0.931) | 281600 | 4.41237 | 4.412 |
| \$ 5 2-Chlorophenol-d4 | 132 | | | | | Compound Not Detected. | | |
| 4 Bis(2-Chloroethyl)ether | 93 | | 8.837 | 8.837 | (0.950) | 248892 | 5.25818 | 5.258 |
| 6 2-Chlorophenol | 128 | | 8.960 | 8.961 | (0.963) | 233608 | 4.27685 | 4.277 |
| 7 1,3-Dichlorobenzene | 146 | | 9.239 | 9.231 | (0.993) | 275540 | 4.77157 | 4.772 |
| * 8 1,4-Dichlorobenzene-d4 | 152 | | 9.301 | 9.293 | (1.000) | 154809 | 4.00000 | |
| 9 1,4-Dichlorobenzene | 146 | | 9.332 | 9.325 | (1.003) | 274051 | 4.91272 | 4.913 |
| \$ 10 1,2-Dichlorobenzene-d4 | 152 | | | | | Compound Not Detected. | | |
| 12 1,2-Dichlorobenzene | 146 | | 9.689 | 9.682 | (1.042) | 268028 | 4.88215 | 4.882 |
| 11 Benzyl alcohol | 108 | | 9.557 | 9.557 | (1.028) | 147597 | 4.92722 | 4.927 |
| 14 2,2'-oxybis(1-Chloropropane) | 121 | | 9.860 | 9.860 | (1.060) | 100179 | 6.21363 | 6.214 |
| 13 2-Methylphenol | 108 | | 9.775 | 9.767 | (1.051) | 196115 | 4.21542 | 4.215 |
| 17 Hexachloroethane | 117 | | 10.279 | 10.271 | (1.105) | 114513 | 5.00332 | 5.003 |
| 16 N-Nitroso-di-n-propylamine | 70 | | 10.116 | 10.108 | (1.088) | 190250 | 5.17896 | 5.179 |
| 15 4-Methylphenol | 108 | | 10.046 | 10.031 | (1.080) | 213951 | 4.36462 | 4.365 |
| \$ 18 Nitrobenzene-d5 | 82 | | | | | Compound Not Detected. | | |
| 19 Nitrobenzene | 77 | | 10.426 | 10.419 | (0.885) | 274714 | 4.85798 | 4.858 |
| 20 Isophorone | 82 | | 10.861 | 10.861 | (0.922) | 556741 | 7.69604 | 7.696 |
| 21 2-Nitrophenol | 139 | | 11.047 | 11.048 | (0.938) | 110302 | 3.99452 | 3.995 |
| 22 2,4-Dimethylphenol | 107 | | 11.081 | 11.082 | (0.941) | 188638 | 3.63181 | 3.632 |
| 23 Bis(2-Chloroethoxy)methane | 93 | | 11.285 | 11.285 | (0.958) | 273219 | 5.65409 | 5.654 |
| 24 Benzoic acid | 105 | | 11.217 | 11.166 | (0.952) | 173961 | 5.95241 | 5.952 |
| 25 2,4-Dichlorophenol | 162 | | 11.489 | 11.489 | (0.975) | 195480 | 4.70301 | 4.703 |
| 26 1,2,4-Trichlorobenzene | 180 | | 11.685 | 11.685 | (0.992) | 222176 | 4.55366 | 4.554 |
| * 27 Naphthalene-d8 | 136 | | 11.777 | 11.770 | (1.000) | 570882 | 4.00000 | |
| 28 Naphthalene | 128 | | 11.816 | 11.816 | (1.003) | 713318 | 4.71662 | 4.717 |
| 29 4-Chloroaniline | 127 | | 11.940 | 11.940 | (1.014) | 223402 | 3.78650 | 3.787 |
| 30 Hexachlorobutadiene | 225 | | 12.171 | 12.172 | (1.033) | 138198 | 4.83404 | 4.834 |
| 31 4-Chloro-3-methylphenol | 107 | | 12.876 | 12.876 | (1.093) | 208794 | 4.64027 | 4.640 |
| 32 2-Methylnaphthalene | 142 | | 13.201 | 13.201 | (1.121) | 501627 | 4.59617 | 4.596 |
| 33 Hexachlorocyclopentadiene | 237 | | 13.665 | 13.665 | (0.888) | 132827 | 4.72902 | 4.729 |

| Compounds | QUANT | SIG | | | | | | CONCENTRATIONS | |
|-----------------------------------|-------|-----|------------------------|--------|---------|--------|----------|----------------------|------------------|
| | | | MASS | RT | EXP RT | REL RT | RESPONSE | ON-COLUMN (ug/mL) | FINAL (ug/mL) |
| 34 2,4,6-Trichlorophenol | 196 | | 13.820 | 13.820 | (0.898) | 137849 | 4.59559 | 4.596 | |
| 35 2,4,5-Trichlorophenol | 196 | | 13.889 | 13.890 | (0.903) | 146935 | 4.40855 | 4.409 | |
| § 36 2-Fluorobiphenyl | 172 | | Compound Not Detected. | | | | | | |
| 37 2-Chloronaphthalene | 162 | | 14.199 | 14.191 | (0.923) | 466196 | 4.79589 | 4.796 | |
| 38 2-Nitroaniline | 65 | | 14.454 | 14.447 | (0.940) | 134108 | 4.91137 | 4.911 | |
| 39 Dimethylphthalate | 163 | | 14.880 | 14.873 | (0.967) | 486790 | 4.93747 | 4.937 | |
| 40 Acenaphthylene | 152 | | 15.074 | 15.066 | (0.980) | 727839 | 4.80509 | 4.805 | |
| 41 2,6-Dinitrotoluene | 165 | | 15.020 | 15.012 | (0.976) | 112840 | 5.29815 | 5.298 | |
| * 42 Acenaphthene-d10 | 164 | | 15.383 | 15.383 | (1.000) | 303490 | 4.00000 | | |
| 43 3-Nitroaniline | 138 | | 15.306 | 15.298 | (0.995) | 120530 | 5.01393 | 5.014 | |
| 44 Acenaphthene | 153 | | 15.453 | 15.445 | (1.005) | 446914 | 4.77589 | 4.776 | |
| 45 2,4-Dinitrophenol | 184 | | 15.515 | 15.515 | (1.009) | 27409 | 2.12395 | 2.124 | |
| 46 Dibenzofuran | 168 | | 15.777 | 15.770 | (1.026) | 641379 | 4.64790 | 4.648 | |
| 47 4-Nitrophenol | 109 | | 15.600 | 15.592 | (1.014) | 59816 | 3.96568 | 3.966 | |
| 48 2,4-Dinitrotoluene | 165 | | 15.824 | 15.817 | (1.029) | 144262 | 4.51019 | 4.510 | |
| 50 Diethylphthalate | 149 | | 16.326 | 16.319 | (1.061) | 503887 | 5.20905 | 5.209 | |
| 49 Fluorene | 166 | | 16.489 | 16.481 | (1.072) | 511113 | 4.70796 | 4.708 | |
| 51 4-Chlorophenyl-phenylether | 204 | | 16.473 | 16.466 | (1.071) | 257762 | 4.99294 | 4.993 | |
| 52 4-Nitroaniline | 138 | | 16.566 | 16.566 | (1.077) | 106701 | 4.92532 | 4.925 | |
| 53 4,6-Dinitro-2-methylphenol | 198 | | 16.666 | 16.658 | (0.905) | 56867 | 3.51509 | 3.515 | |
| 54 N-Nitrosodiphenylamine | 169 | | 16.720 | 16.712 | (0.908) | 342454 | 4.80180 | 4.802 | |
| § 55 2,4,6-Tribromophenol | 330 | | Compound Not Detected. | | | | | | |
| 56 4-Bromophenyl-phenylether | 248 | | 17.475 | 17.476 | (0.949) | 150956 | 5.05964 | 5.060 | |
| 57 Hexachlorobenzene | 284 | | 17.800 | 17.793 | (0.966) | 143751 | 4.59553 | 4.596 | |
| 58 Pentachlorophenol | 266 | | 18.149 | 18.149 | (0.985) | 75635 | 4.05676 | 4.057 | |
| * 59 Phenanthrene-d10 | 188 | | 18.420 | 18.420 | (1.000) | 533431 | 4.00000 | | |
| 60 Phenanthrene | 178 | | 18.466 | 18.466 | (1.003) | 669357 | 4.60181 | 4.602 | |
| 61 Anthracene | 178 | | 18.559 | 18.559 | (1.008) | 581438 | 4.16715 | 4.167 | |
| 62 Carbazole | 167 | | 18.884 | 18.884 | (1.025) | 591382 | 4.72989 | 4.730 | |
| 63 Di-n-butylphthalate | 149 | | 19.665 | 19.666 | (1.068) | 830680 | 4.96738 | 4.967 | |
| 64 Fluoranthene | 202 | | 20.841 | 20.841 | (0.888) | 782432 | 4.47248 | 4.472 | |
| 65 Pyrene | 202 | | 21.267 | 21.267 | (0.907) | 778668 | 4.33892 | 4.339 | |
| § 66 Terphenyl-d14 | 244 | | Compound Not Detected. | | | | | | |
| 67 Butylbenzylphthalate | 149 | | 22.459 | 22.460 | (0.957) | 314007 | 4.83397 | 4.834 | |
| 68 Benzo(a)anthracene | 228 | | 23.427 | 23.419 | (0.999) | 714166 | 4.64722 | 4.647 | |
| * 69 Chrysene-d12 | 240 | | 23.458 | 23.450 | (1.000) | 435381 | 4.00000 | | |
| 70 3,3'-Dichlorobenzidine | 252 | | 23.373 | 23.373 | (0.996) | 483256 | 9.81738 | 9.817 | |
| 71 Chrysene | 228 | | 23.497 | 23.489 | (1.002) | 677151 | 4.51017 | 4.510 | |
| 72 bis(2-Ethylhexyl)phthalate | 149 | | 23.481 | 23.474 | (0.959) | 453669 | 4.67998 | 4.680 | |
| * 134 Di-n-octylphthalate-d4 | 153 | | 24.487 | 24.480 | (1.000) | 660827 | 4.00000 | | |
| 73 Di-n-octylphthalate | 149 | | 24.495 | 24.488 | (1.000) | 855562 | 4.94734 | 4.947 | |
| 74 Benzo(b)fluoranthene | 252 | | 25.370 | 25.362 | (0.969) | 737887 | 4.60200 | 4.602 (H) | |
| 75 Benzo(k)fluoranthene | 252 | | 25.416 | 25.409 | (0.970) | 797521 | 4.89839 | 4.898 | |
| 76 Benzo(a)pyrene | 252 | | 26.067 | 26.052 | (0.995) | 698616 | 4.87338 | 4.873 | |
| * 77 Perylene-d12 | 264 | | 26.191 | 26.183 | (1.000) | 494648 | 4.00000 | | |
| 78 Indeno(1,2,3-cd)pyrene | 276 | | 29.005 | 28.990 | (1.107) | 834672 | 4.57655 | 4.577 | |
| 79 Dibenzo(a,h)anthracene | 278 | | 29.021 | 29.005 | (1.108) | 688433 | 4.54663 | 4.547 | |
| 80 Benzo(g,h,i)perylene | 276 | | 29.852 | 29.821 | (1.140) | 724463 | 4.59000 | 4.590 | |
| 90 N-Nitrosodimethylamine | 74 | | 4.928 | 4.936 | (0.530) | 155126 | 5.19378 | 5.194 | |
| 91 Aniline | 93 | | Compound Not Detected. | | | | | | |
| 93 Benzidine | 184 | | 21.073 | 21.066 | (0.898) | 314737 | 4.37985 | 4.380 | |
| 103 Pyridine | 79 | | 4.959 | 4.997 | (0.533) | 244801 | 5.33678 | 5.337 | |
| 105 1-methylnaphthalene | 142 | | 13.425 | 13.425 | (1.140) | 487498 | 4.87520 | 4.875 | |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77 | | 16.797 | 16.789 | (1.092) | 533524 | 4.93744 | 4.937 | |

| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|-------------------------------|-----------|--------|--------|---------|----------|----------------------|------------------|
| | | | | | | ON-COLUMN (ug/mL) | FINAL (ug/mL) |
| 187 Total Benzofluoranthenes | 252 | 25.370 | 25.409 | (0.969) | 1468165 | 9.48349 | 9.483 |
| 120 2,3,4,6-Tetrachlorophenol | 232 | 16.102 | 16.103 | (1.047) | 124685 | 3.97959 | 3.980 |

QC Flag Legend

H - Operator selected an alternate compound hit.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 15-MAR-2023
 Lab File ID: NT10031511.D Calibration Time: 21:50
 Lab Smp Id: SLC0228-SCV1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt10.i\20230315.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|--------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 171542 | 85771 | 343084 | 154809 | -9.75 |
| 27 Naphthalene-d8 | 624466 | 312233 | 1248932 | 570882 | -8.58 |
| 42 Acenaphthene-d10 | 337226 | 168613 | 674452 | 303490 | -10.00 |
| 59 Phenanthrene-d10 | 572849 | 286425 | 1145698 | 533431 | -6.88 |
| 69 Chrysene-d12 | 347068 | 173534 | 694136 | 435381 | 25.45 |
| 134 Di-n-octylphthala | 500317 | 250159 | 1000634 | 660827 | 32.08 |
| 77 Perylene-d12 | 421549 | 210775 | 843098 | 494648 | 17.34 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 9.30 | 8.80 | 9.80 | 9.30 | -0.00 |
| 27 Naphthalene-d8 | 11.78 | 11.28 | 12.28 | 11.78 | 0.01 |
| 42 Acenaphthene-d10 | 15.38 | 14.88 | 15.88 | 15.38 | 0.00 |
| 59 Phenanthrene-d10 | 18.42 | 17.92 | 18.92 | 18.42 | 0.00 |
| 69 Chrysene-d12 | 23.45 | 22.95 | 23.95 | 23.46 | 0.04 |
| 134 Di-n-octylphthala | 24.48 | 23.98 | 24.98 | 24.49 | 0.03 |
| 77 Perylene-d12 | 26.18 | 25.68 | 26.68 | 26.19 | 0.03 |

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

REVIEW SUMMARY FOR FILE - NT10031511.D

Lab ID: SLC0228-SCV1
nt10.i, 20230315.b\ABN.m, 16-MAR-2023 02:16

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

** FIRST SURROGATE NOT FOUND. ICAL Check not performed **

RRT CHECK

| RRT | CCV RRT | DELTA | COMPOUND |
|-------|---------|--------|--------------|
| 0.952 | 0.000 | 0.9524 | Benzoic acid |

RRT check based on Ccal File: NT10031508.D

On Column LOD for nt10.i, 20230315.b\ABN.m, ICAL.sub = 0.0000

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



**LOW-CONCENTRATION
CALIBRATION VERIFICATION
EPA 8270E**

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Calibration: GC00033

Laboratory ID: SLB0374-LCV1

Sequence: SLB0374

Standard ID: K011105

| ANALYTE | EXPECTED (ug/mL) | FOUND (ug/mL) | % DRIFT | QC LIMIT |
|------------------------------|---------------------|------------------|---------|----------|
| Phenol | 0.20000 | 0.2 | 8.2 | 50.00 |
| bis(2-chloroethyl) ether | 0.20000 | 0.2 | -0.3 | 50.00 |
| 2-Chlorophenol | 0.20000 | 0.2 | -11.3 | 50.00 |
| 1,3-Dichlorobenzene | 0.20000 | 0.2 | 5.5 | 50.00 |
| 1,4-Dichlorobenzene | 0.20000 | 0.2 | 1.5 | 50.00 |
| 1,2-Dichlorobenzene | 0.20000 | 0.2 | 9.3 | 50.00 |
| Benzyl Alcohol | 0.20000 | 0.1 | -50.1 * | 50.00 |
| 2,2'-Oxybis(1-chloropropane) | 0.20000 | 0.2 | 6.9 | 50.00 |
| 2-Methylphenol | 0.20000 | 0.2 | -12.8 | 50.00 |
| Hexachloroethane | 0.20000 | 0.1 | -25.3 | 50.00 |
| N-Nitroso-di-n-Propylamine | 0.20000 | 0.2 | 0.7 | 50.00 |
| 4-Methylphenol | 0.20000 | 0.1 | -34.1 | 50.00 |
| Nitrobenzene | 0.20000 | 0.2 | -8.0 | 50.00 |
| Isophorone | 0.20000 | 0.2 | -9.5 | 50.00 |
| 2-Nitrophenol | 0.20000 | 0.1 | -31.0 | 50.00 |
| 2,4-Dimethylphenol | 0.40000 | 0.4 | 3.3 | 50.00 |
| Bis(2-Chloroethoxy)methane | 0.20000 | 0.2 | -2.1 | 50.00 |
| 2,4-Dichlorophenol | 0.40000 | 0.3 | -27.6 | 50.00 |
| 1,2,4-Trichlorobenzene | 0.20000 | 0.2 | 1.8 | 50.00 |
| Naphthalene | 0.20000 | 0.2 | 6.8 | 50.00 |
| Benzoic acid | 0.80000 | 0.0 | * | 50.00 |
| 4-Chloroaniline | 0.40000 | 0.3 | -21.4 | 50.00 |
| Hexachlorobutadiene | 0.20000 | 0.2 | -6.3 | 50.00 |
| 4-Chloro-3-Methylphenol | 0.40000 | 0.3 | -23.9 | 50.00 |
| 2-Methylnaphthalene | 0.20000 | 0.2 | -3.0 | 50.00 |
| Hexachlorocyclopentadiene | 0.40000 | 0.0 | * | 50.00 |
| 2,4,6-Trichlorophenol | 0.40000 | 0.3 | -21.8 | 50.00 |
| 2,4,5-Trichlorophenol | 0.40000 | 0.3 | -30.9 | 50.00 |
| 2-Chloronaphthalene | 0.20000 | 0.2 | 3.9 | 50.00 |



**LOW-CONCENTRATION
CALIBRATION VERIFICATION
EPA 8270E**

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Calibration: GC00033

Laboratory ID: SLB0374-LCV1

Sequence: SLB0374

Standard ID: K011105

| | | | | |
|----------------------------|---------|------|---------|-------|
| 2-Nitroaniline | 0.40000 | 0.3 | -16.8 | 50.00 |
| Acenaphthylene | 0.20000 | 0.2 | 10.5 | 50.00 |
| Dimethylphthalate | 0.20000 | 0.2 | 6.4 | 50.00 |
| 2,6-Dinitrotoluene | 0.40000 | 0.4 | -6.9 | 50.00 |
| Acenaphthene | 0.20000 | 0.2 | 5.1 | 50.00 |
| 3-Nitroaniline | 0.40000 | 0.2 | -44.8 | 50.00 |
| 2,4-Dinitrophenol | 0.80000 | 0.0 | * | 50.00 |
| Dibenzofuran | 0.20000 | 0.2 | -0.8 | 50.00 |
| 4-Nitrophenol | 0.40000 | 0.0 | * | 50.00 |
| 2,4-Dinitrotoluene | 0.40000 | 0.3 | -30.1 | 50.00 |
| Fluorene | 0.20000 | 0.2 | 5.0 | 50.00 |
| 4-Chlorophenylphenyl ether | 0.20000 | 0.2 | 0.6 | 50.00 |
| Diethyl phthalate | 0.20000 | 0.2 | 7.4 | 50.00 |
| 4-Nitroaniline | 0.40000 | 0.3 | -32.2 | 50.00 |
| 4,6-Dinitro-2-methylphenol | 0.80000 | 0.1 | -82.8 * | 50.00 |
| N-Nitrosodiphenylamine | 0.20000 | 0.2 | 6.2 | 50.00 |
| 4-Bromophenyl phenyl ether | 0.20000 | 0.2 | 1.0 | 50.00 |
| Hexachlorobenzene | 0.20000 | 0.2 | 6.9 | 50.00 |
| Pentachlorophenol | 0.40000 | 0.07 | -82.0 * | 50.00 |
| Phenanthrene | 0.20000 | 0.2 | 3.0 | 50.00 |
| Anthracene | 0.20000 | 0.2 | 2.3 | 50.00 |
| Carbazole | 0.20000 | 0.2 | -7.2 | 50.00 |
| Di-n-Butylphthalate | 0.20000 | 0.2 | -10.5 | 50.00 |
| Fluoranthene | 0.20000 | 0.2 | -1.4 | 50.00 |
| Pyrene | 0.20000 | 0.2 | -2.8 | 50.00 |
| Butylbenzylphthalate | 0.20000 | 0.2 | 2.2 | 50.00 |
| Benzo(a)anthracene | 0.20000 | 0.2 | 10.7 | 50.00 |
| 3,3'-Dichlorobenzidine | 0.60000 | 0.7 | 22.2 | 50.00 |
| Chrysene | 0.20000 | 0.2 | 7.7 | 50.00 |
| bis(2-Ethylhexyl)phthalate | 0.20000 | 0.2 | -9.9 | 50.00 |
| Di-n-Octylphthalate | 0.20000 | 0.2 | 1.2 | 50.00 |



**LOW-CONCENTRATION
CALIBRATION VERIFICATION
EPA 8270E**

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Calibration: GC00033

Laboratory ID: SLB0374-LCV1

Sequence: SLB0374

Standard ID: K011105

| | | | | |
|---------------------------|---------|-------|---------|-------|
| Benzofluoranthenes, Total | 0.40000 | 0.4 | 4.8 | 50.00 |
| Benzo(a)pyrene | 0.20000 | 0.2 | 10.3 | 50.00 |
| Indeno(1,2,3-cd)pyrene | 0.20000 | 0.1 | -34.5 | 50.00 |
| Dibenzo(a,h)anthracene | 0.20000 | 0.1 | -28.5 | 50.00 |
| Benzo(g,h,i)perylene | 0.20000 | 0.1 | -50.2 * | 50.00 |
| 1-Methylnaphthalene | 0.20000 | 0.2 | -2.4 | 50.00 |
| 2-Fluorophenol | 0.30000 | 0.218 | -27.5 | 50.00 |
| Phenol-d5 | 0.30000 | 0.252 | -16.1 | 50.00 |
| 2-Chlorophenol-d4 | 0.30000 | 0.272 | -9.5 | 50.00 |
| 1,2-Dichlorobenzene-d4 | 0.20000 | 0.196 | -2.2 | 50.00 |
| Nitrobenzene-d5 | 0.20000 | 0.197 | -1.3 | 50.00 |
| 2-Fluorobiphenyl | 0.20000 | 0.207 | 3.4 | 50.00 |
| 2,4,6-Tribromophenol | 0.30000 | 0.207 | -30.9 | 50.00 |
| p-Terphenyl-d14 | 0.20000 | 0.199 | -0.7 | 50.00 |

* Values outside of QC limits

Data File: \\target\share\chem3\nt14,1\20230228,16\NT1423022823.D

Date: 01-MAR-2023 14:51

Client ID:

Sample Info: SLB0374-LCW1

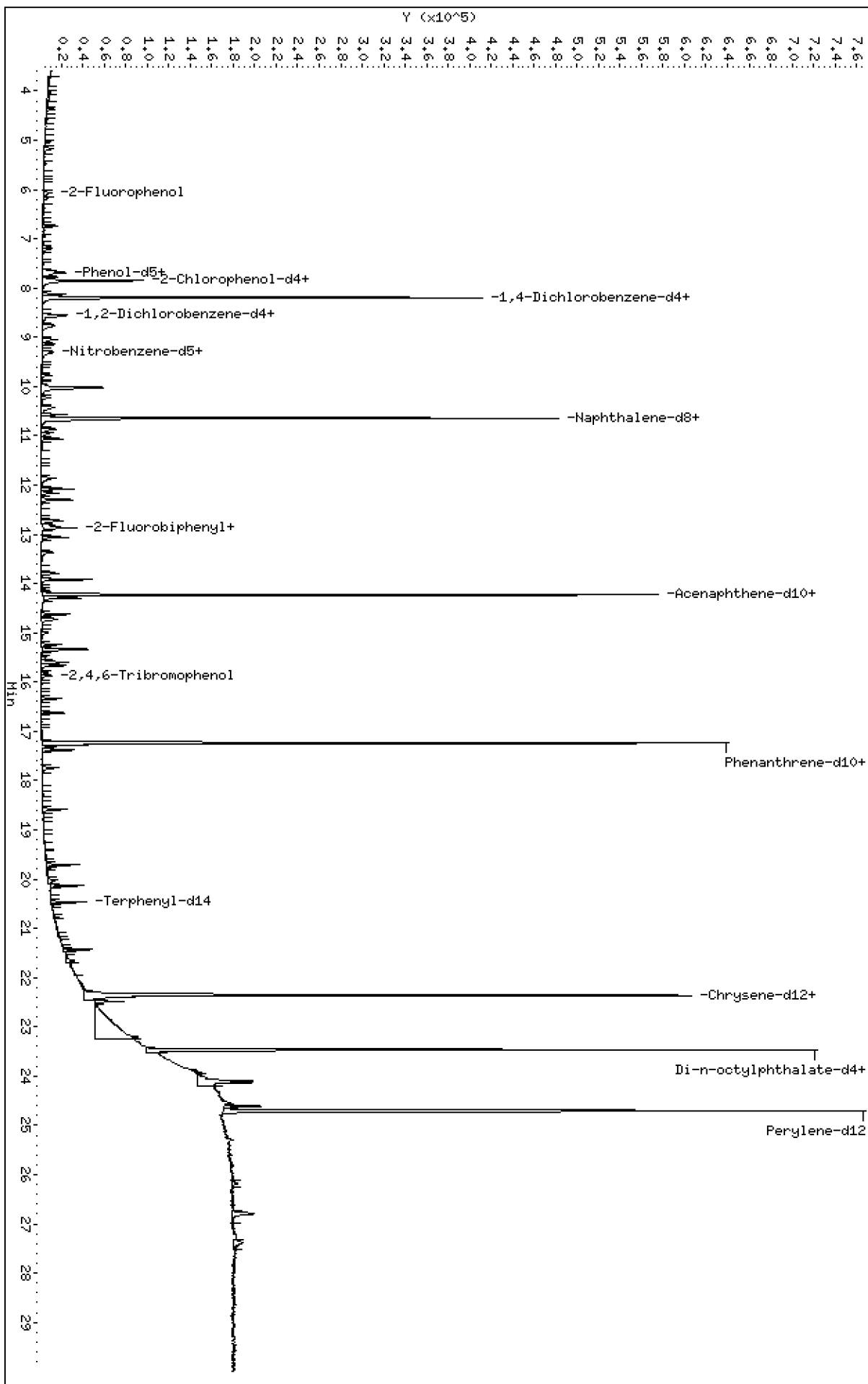
Column phase: ZB-5msi

Instrument: nt14,1

Operator: JGR

Column diameter: 0.25

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Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

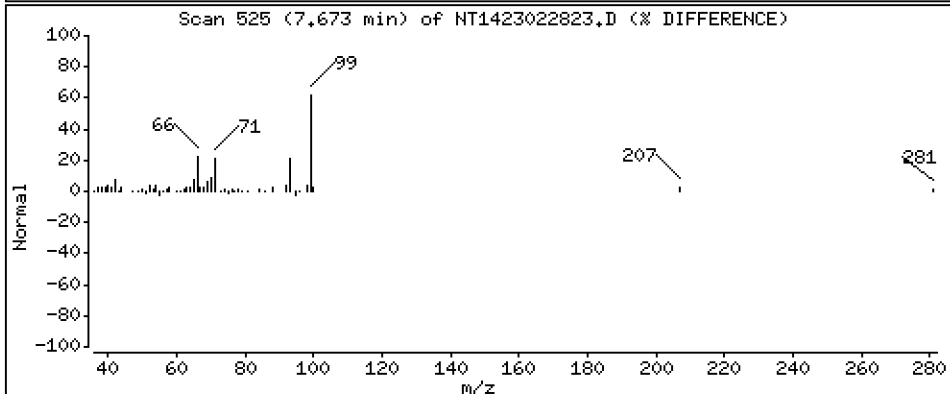
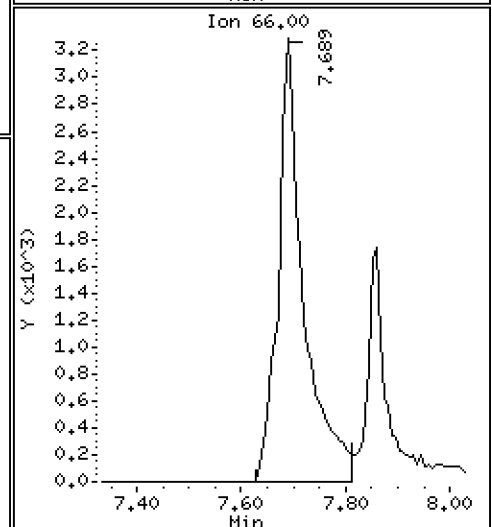
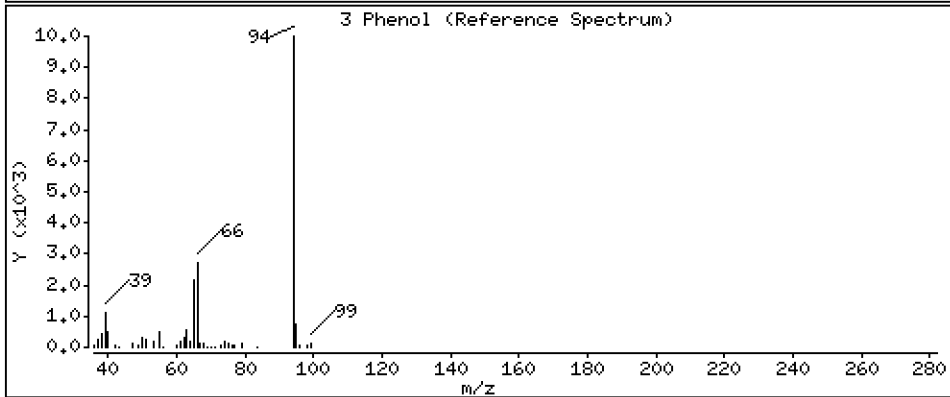
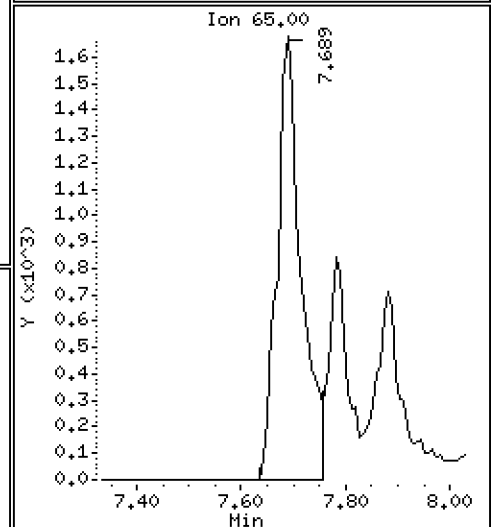
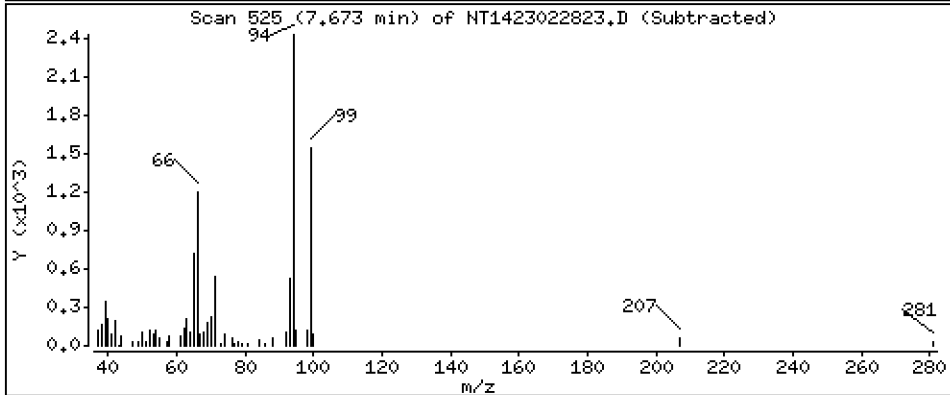
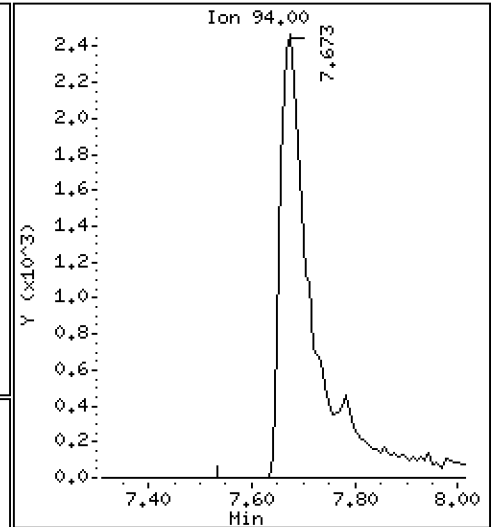
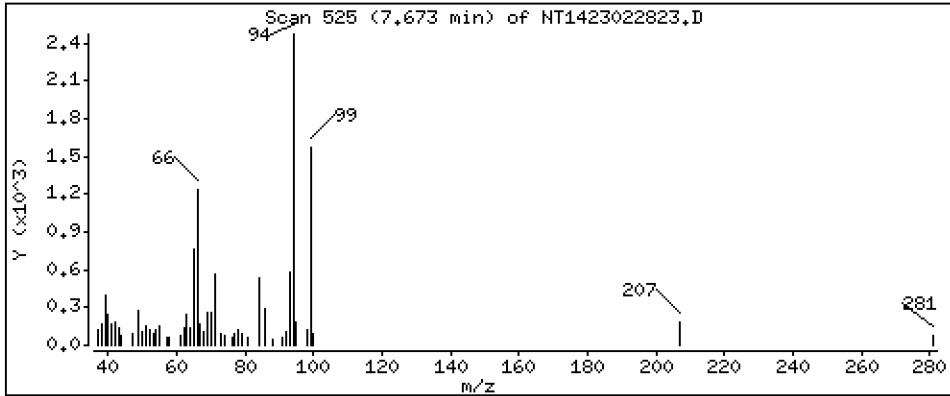
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 0,2165 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

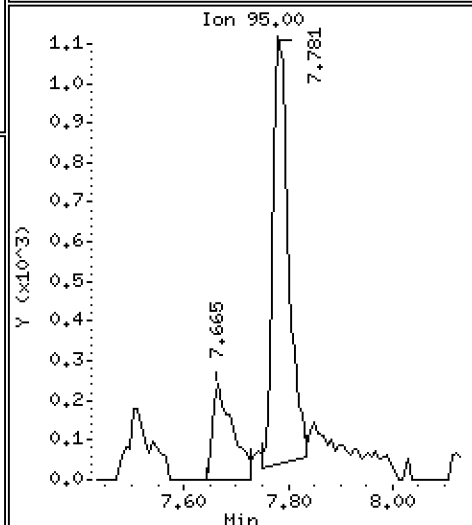
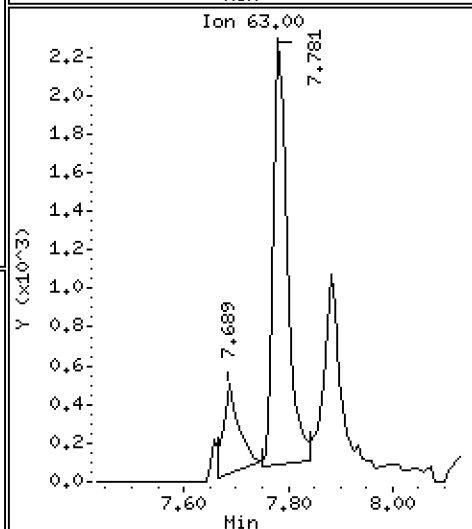
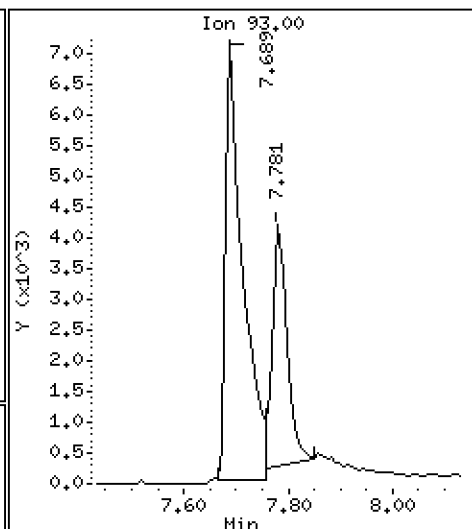
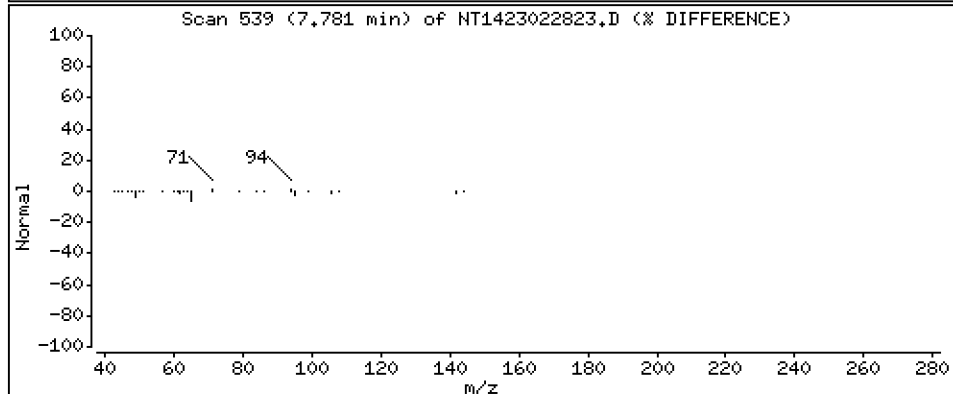
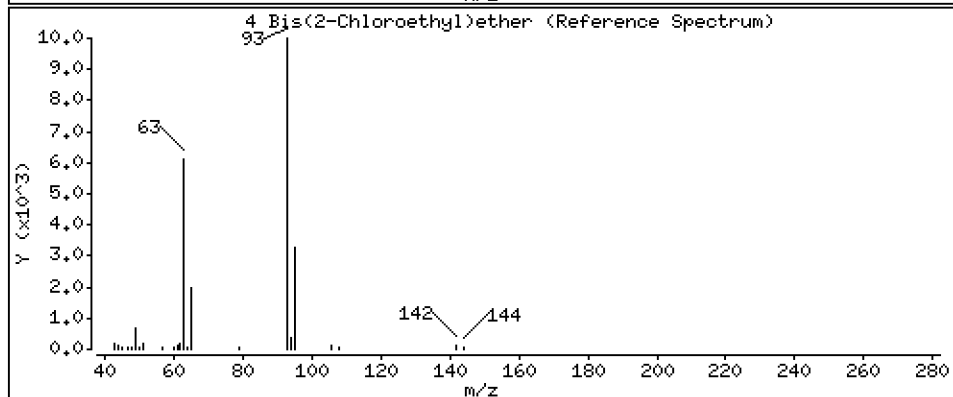
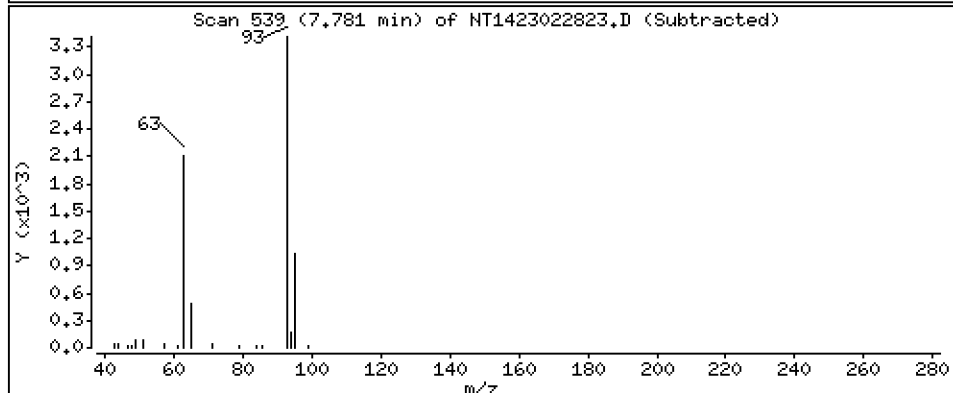
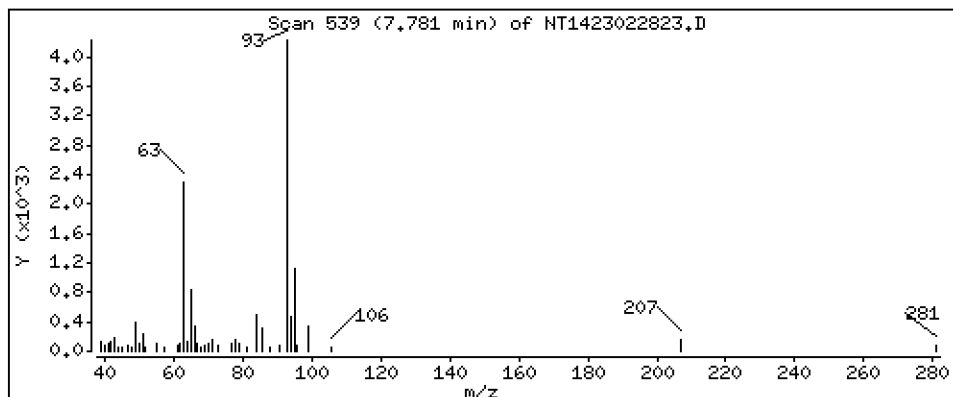
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

4 Bis(2-Chloroethyl)ether

Concentration: 0.1995 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

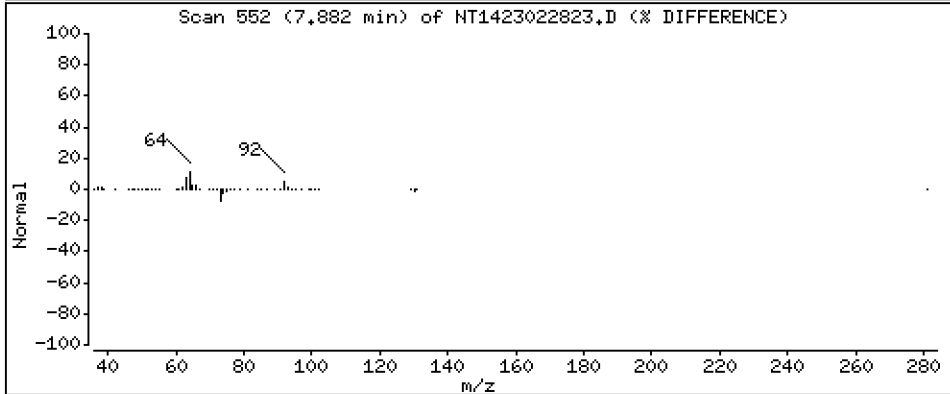
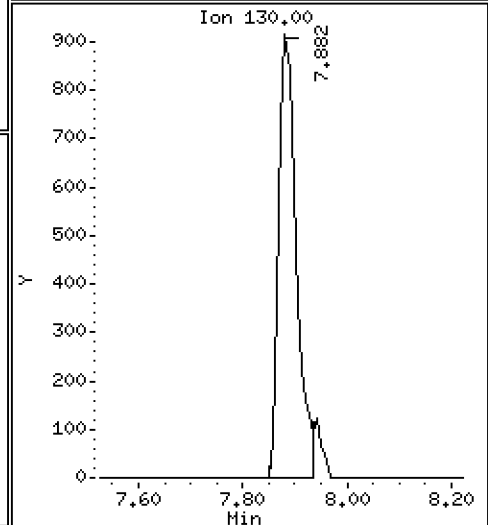
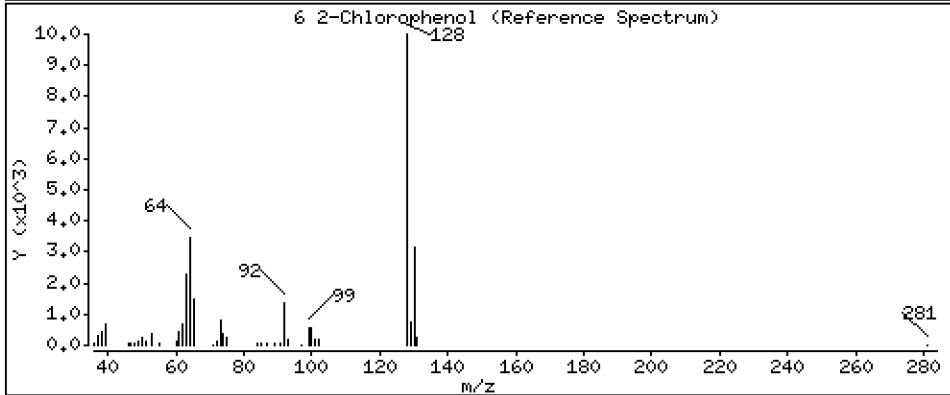
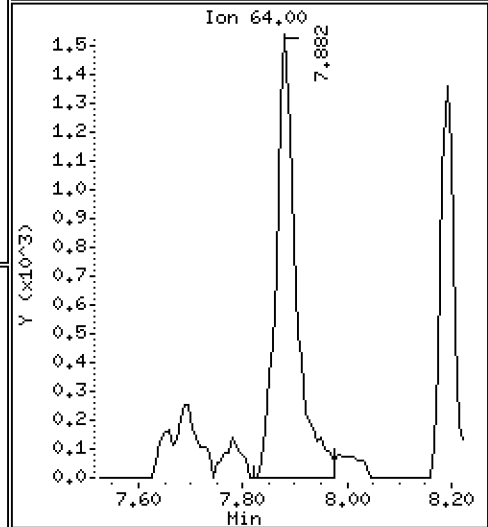
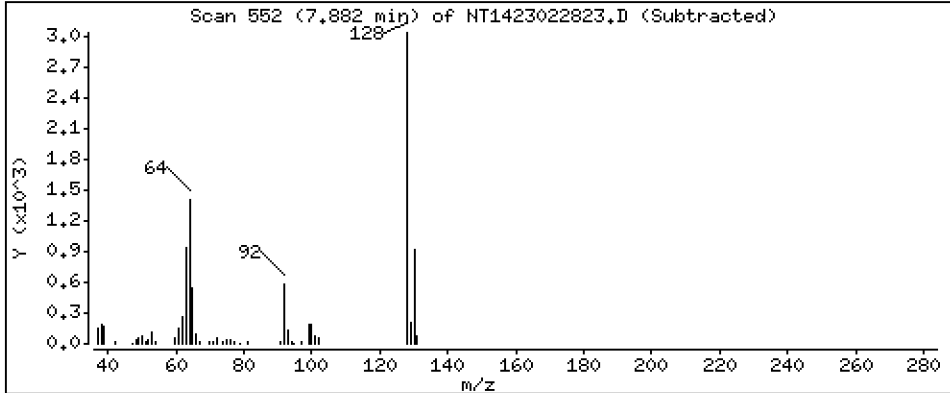
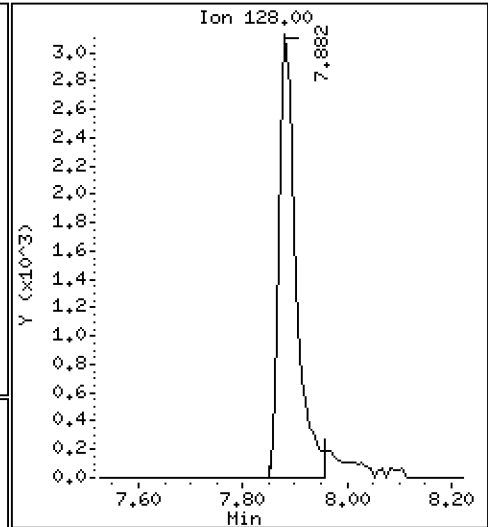
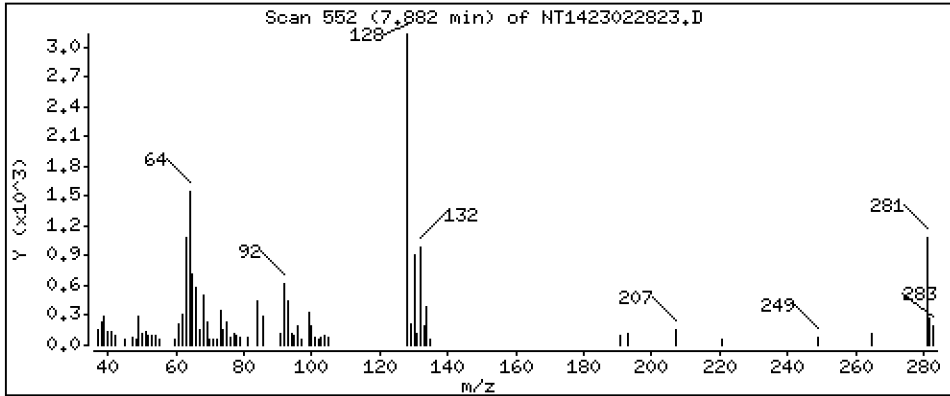
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

6 2-Chlorophenol

Concentration: 0.1773 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

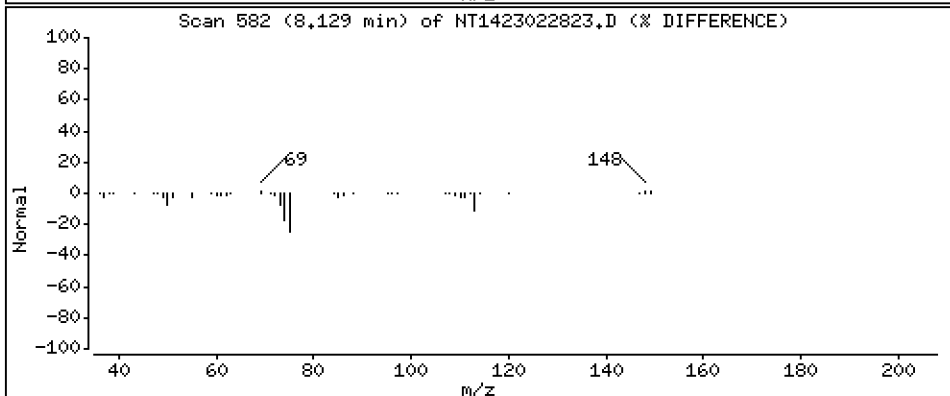
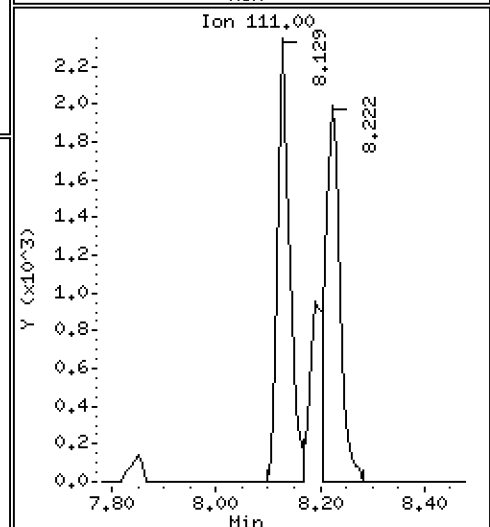
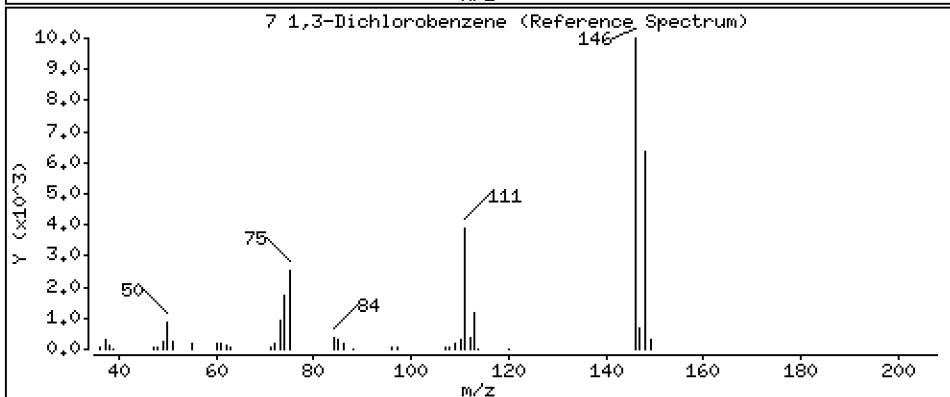
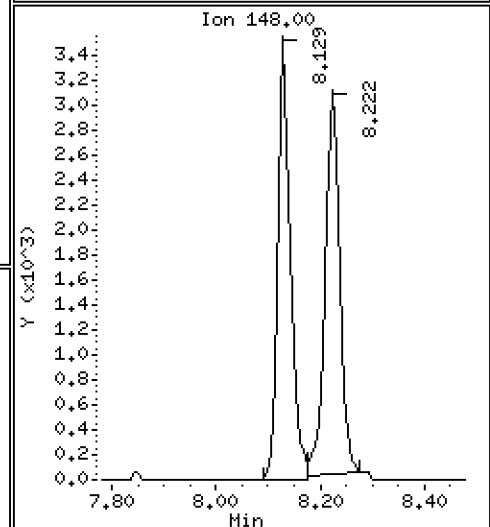
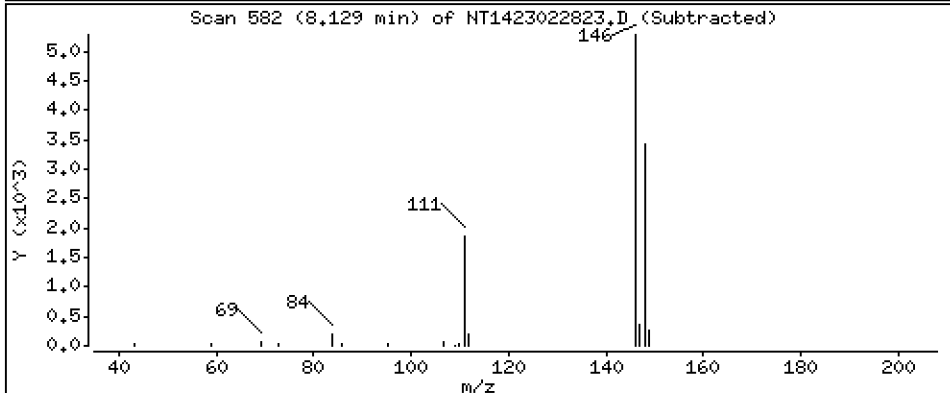
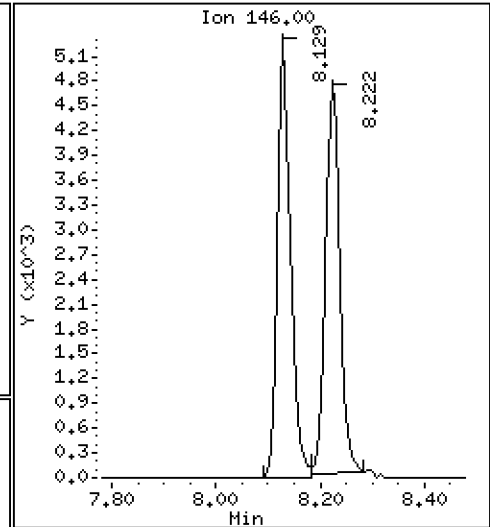
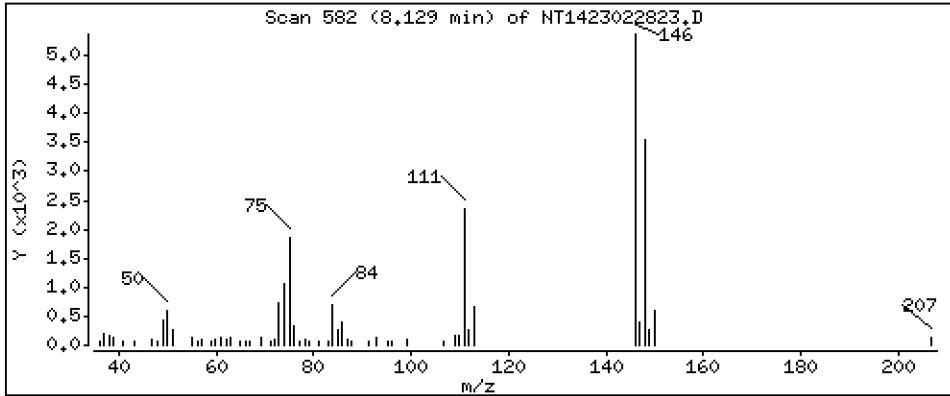
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

7 1,3-Dichlorobenzene

Concentration: 0,2110 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

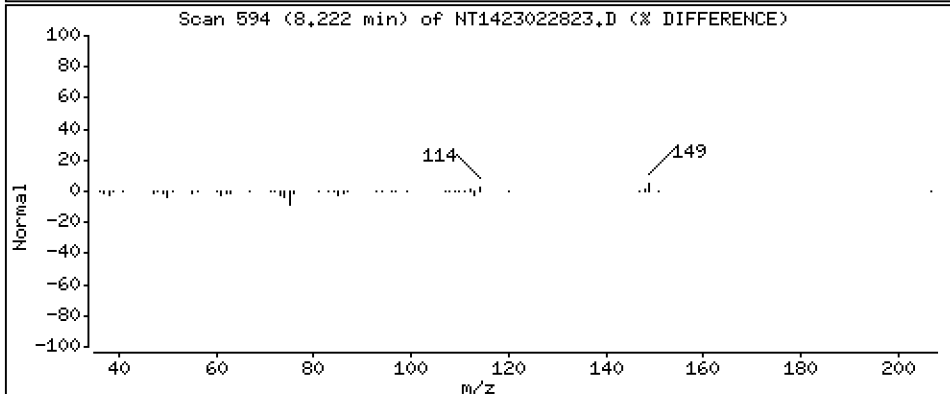
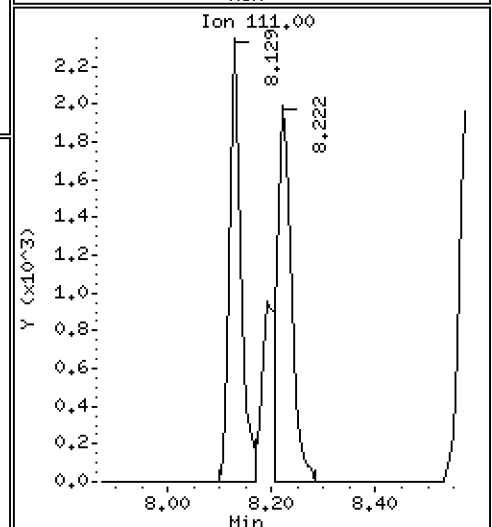
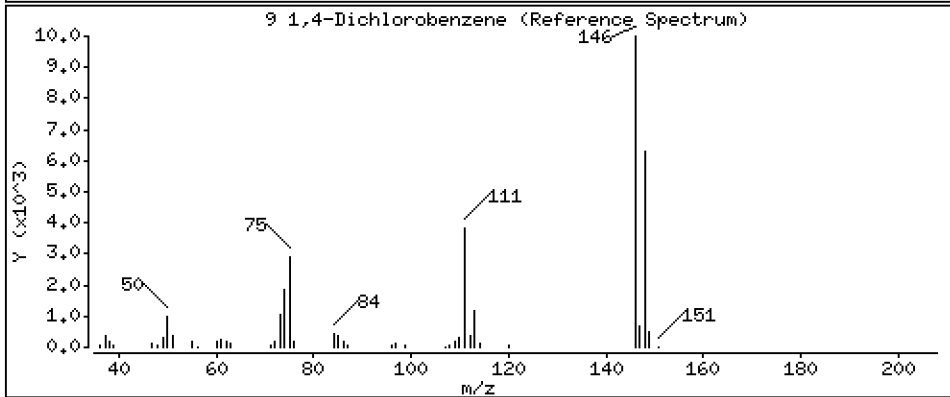
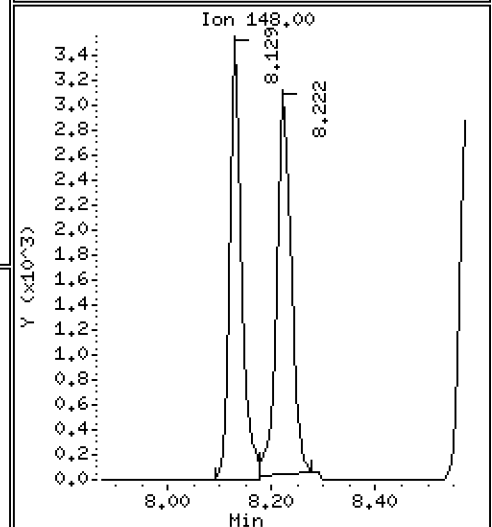
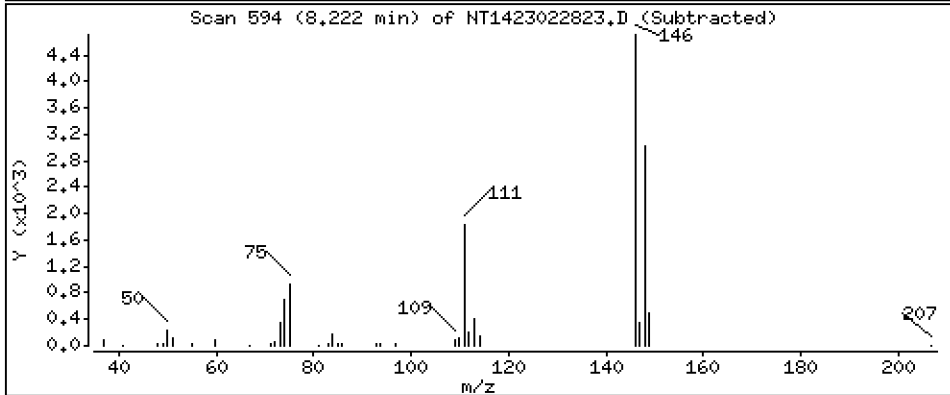
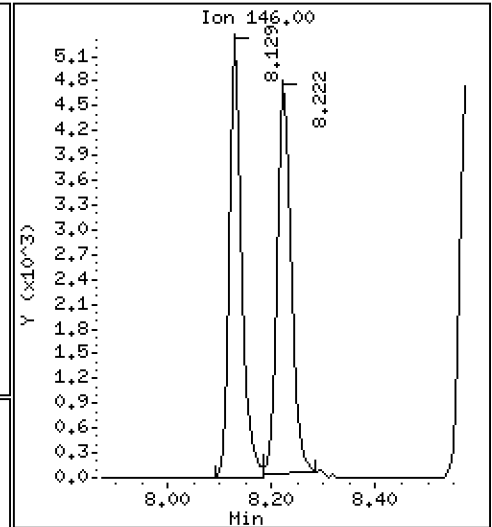
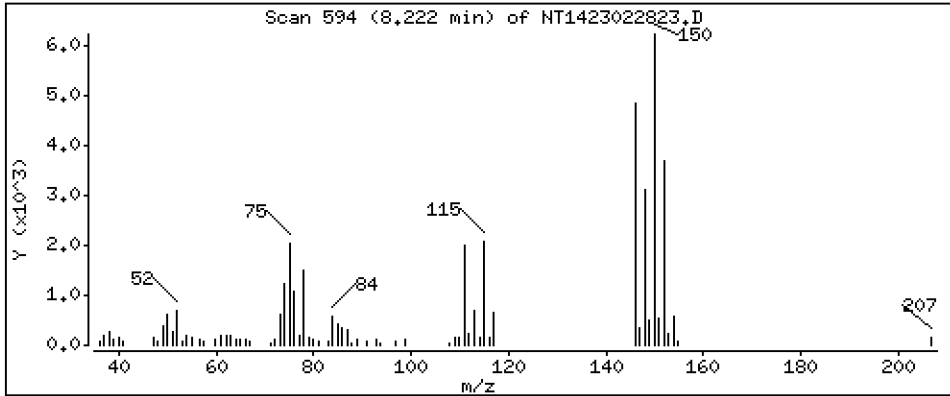
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 0,2029 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

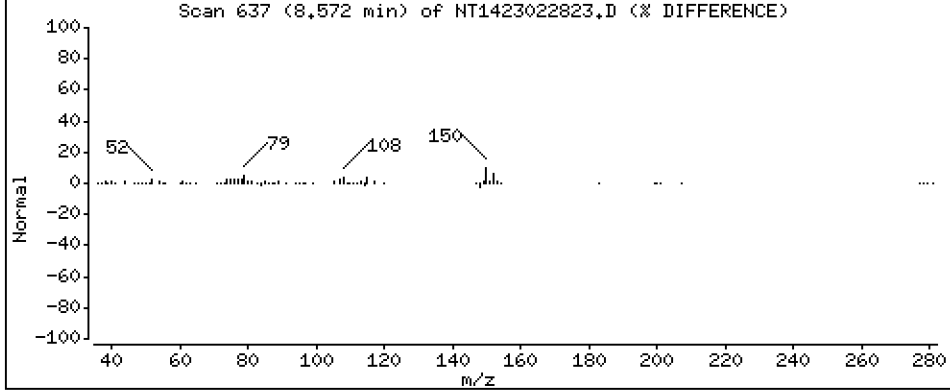
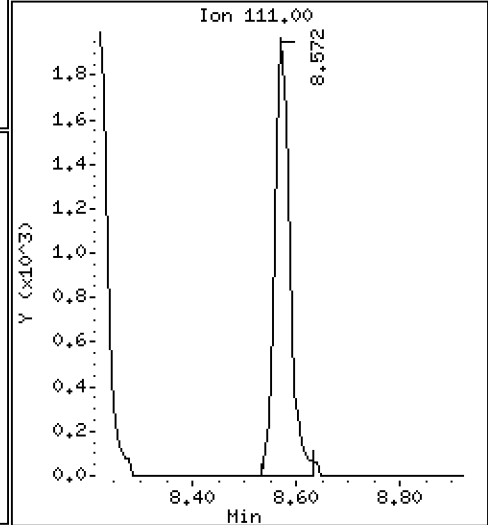
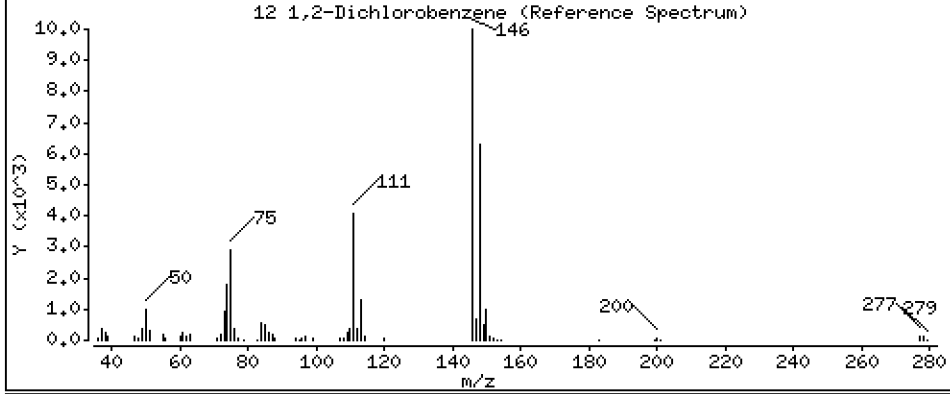
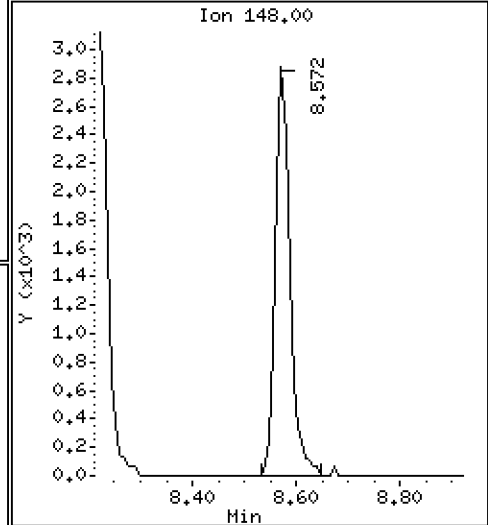
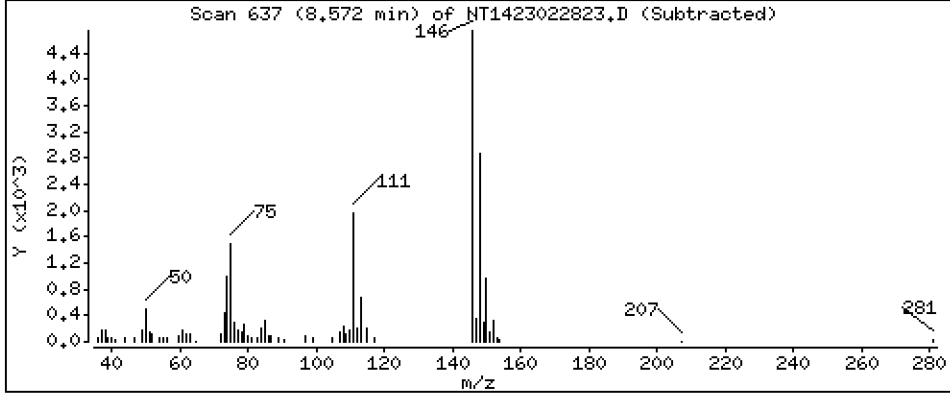
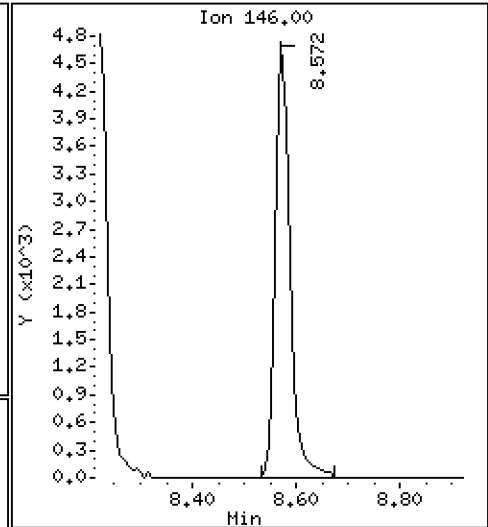
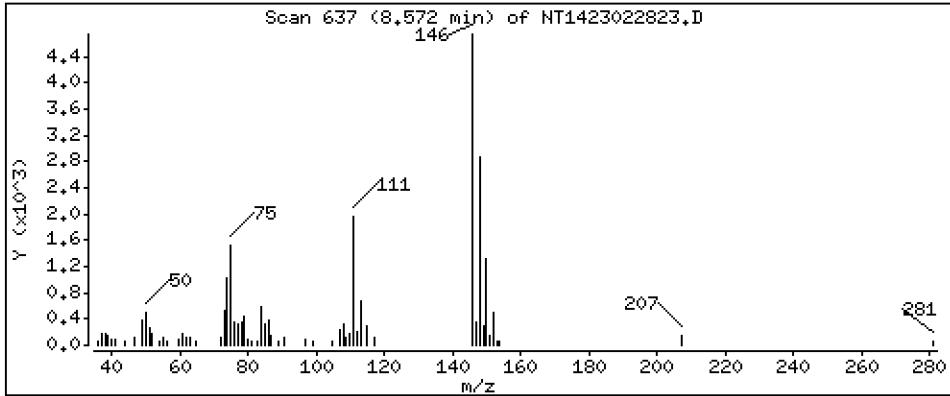
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

12 1,2-Dichlorobenzene

Concentration: 0,2186 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

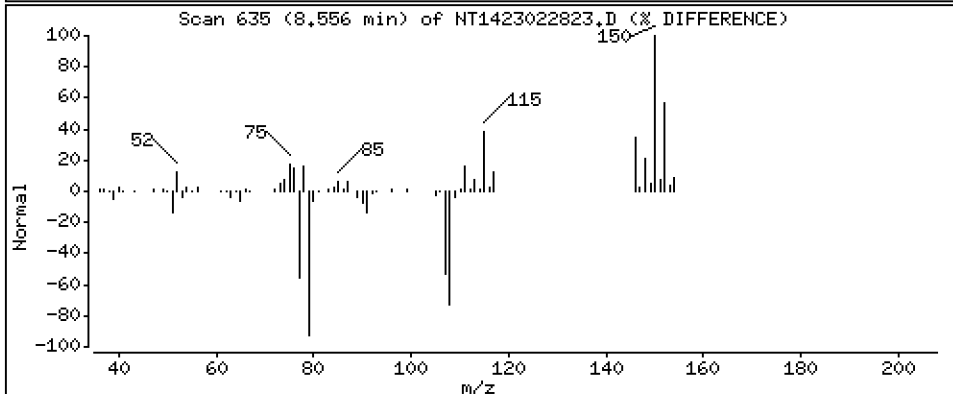
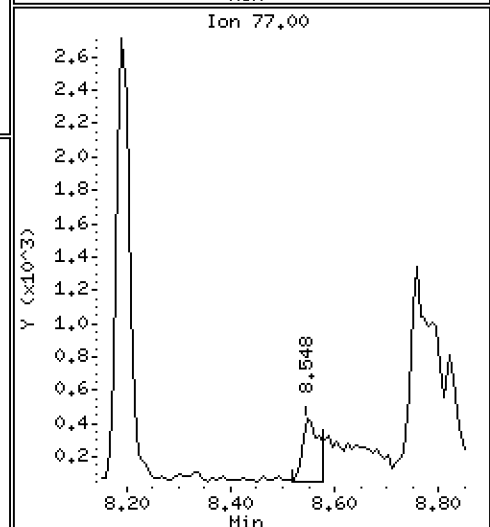
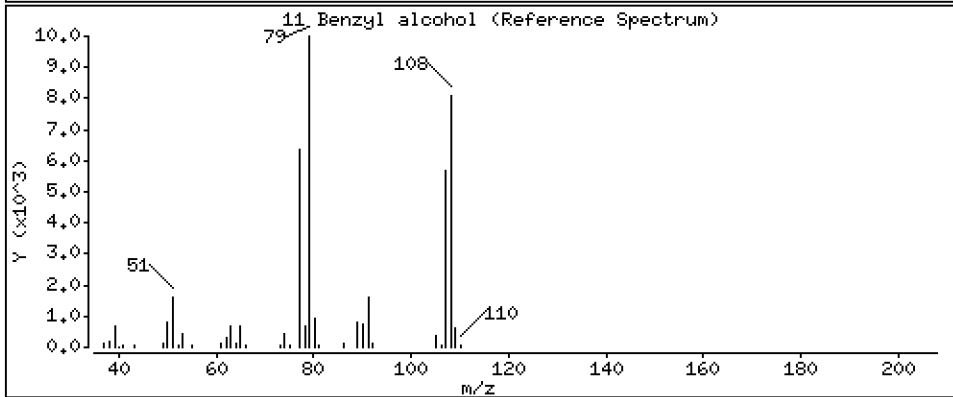
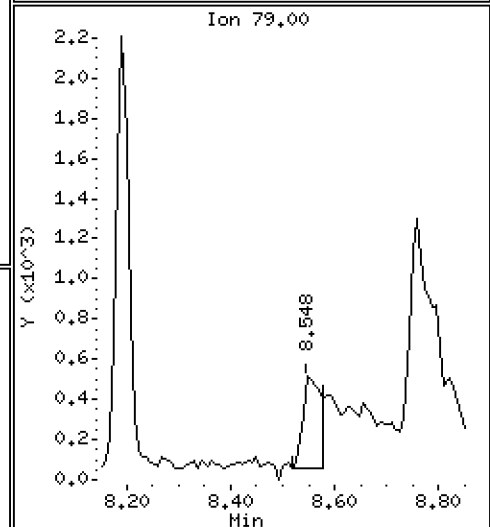
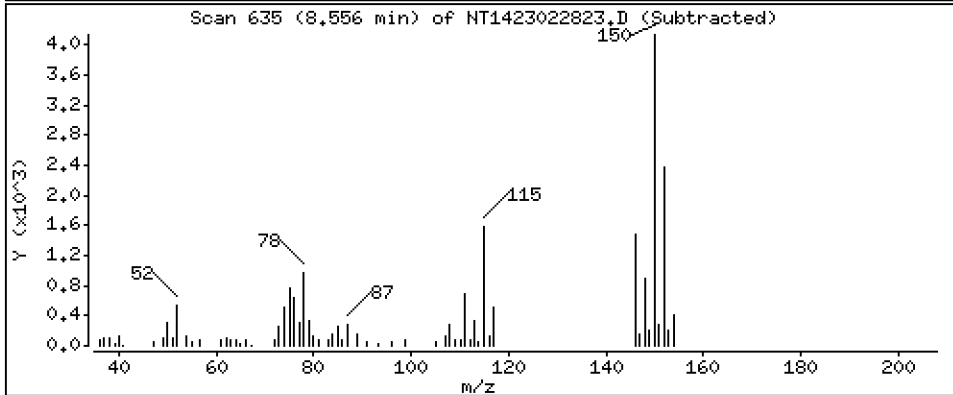
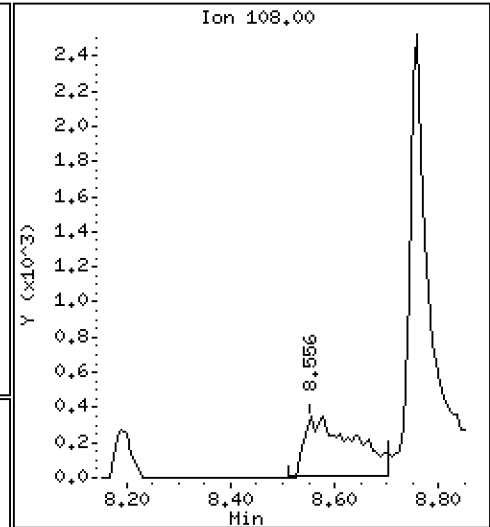
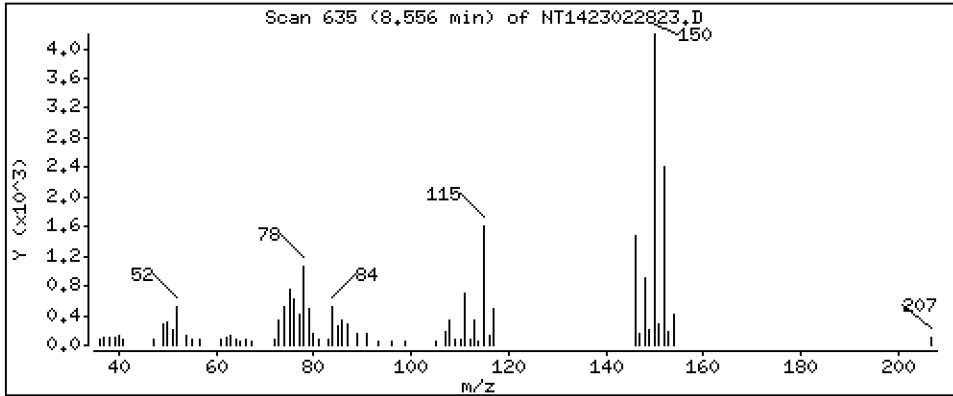
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 0.09976 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

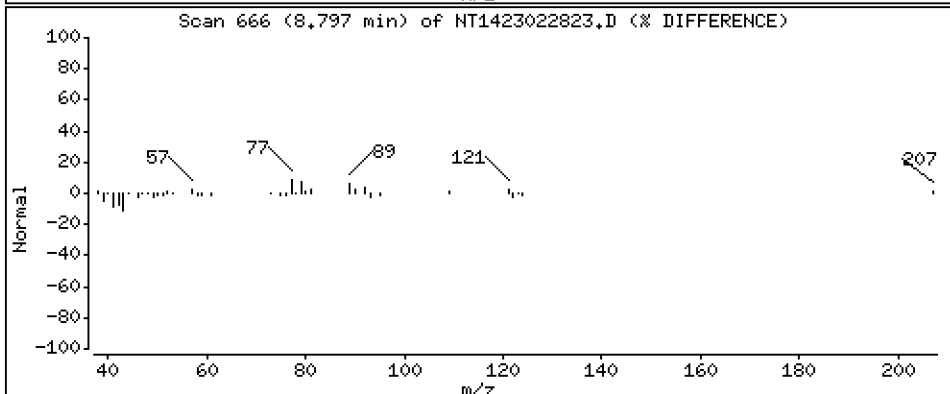
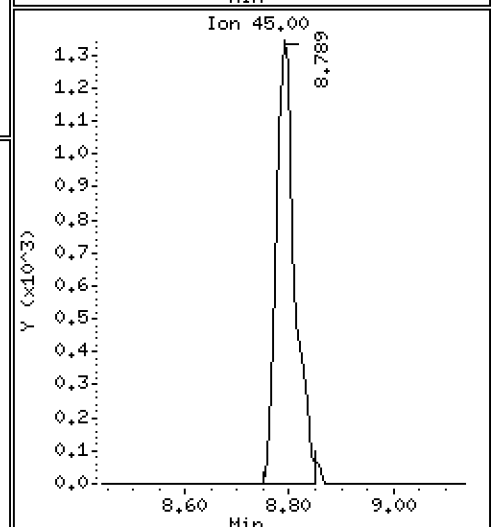
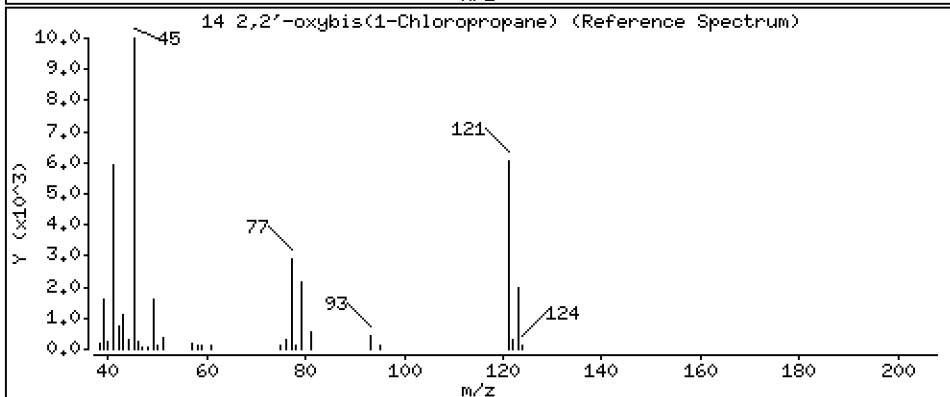
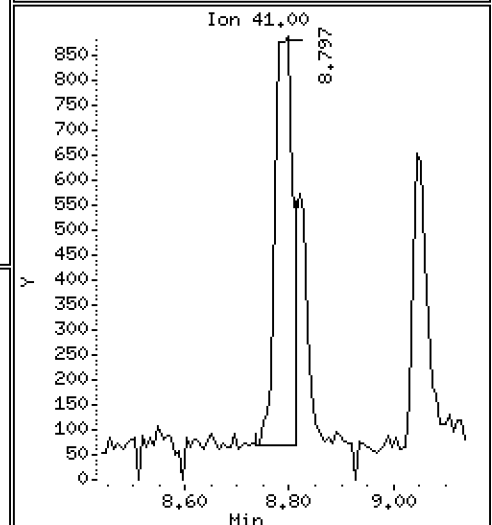
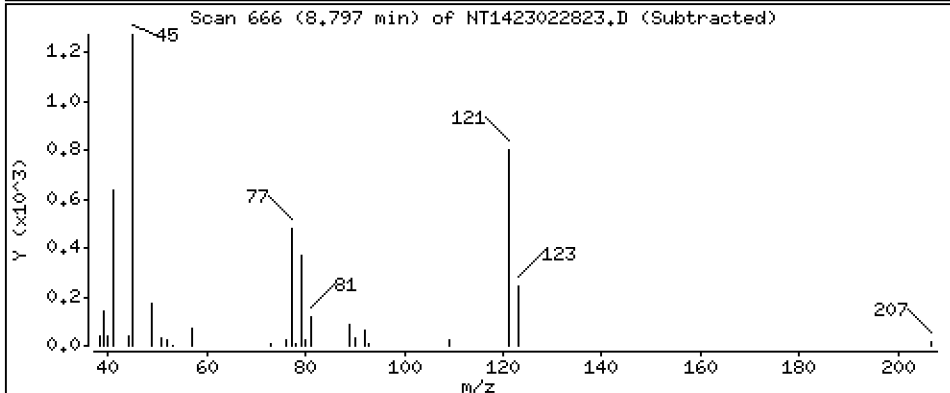
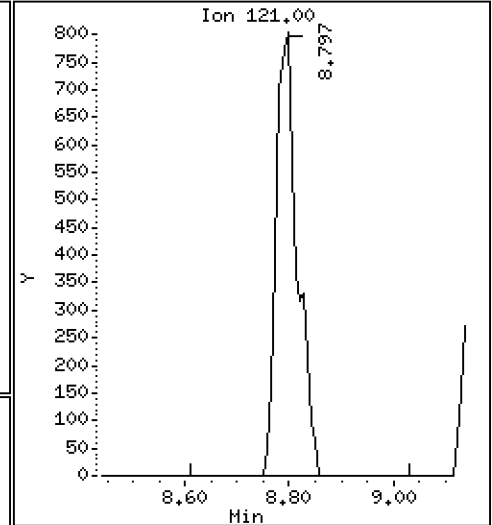
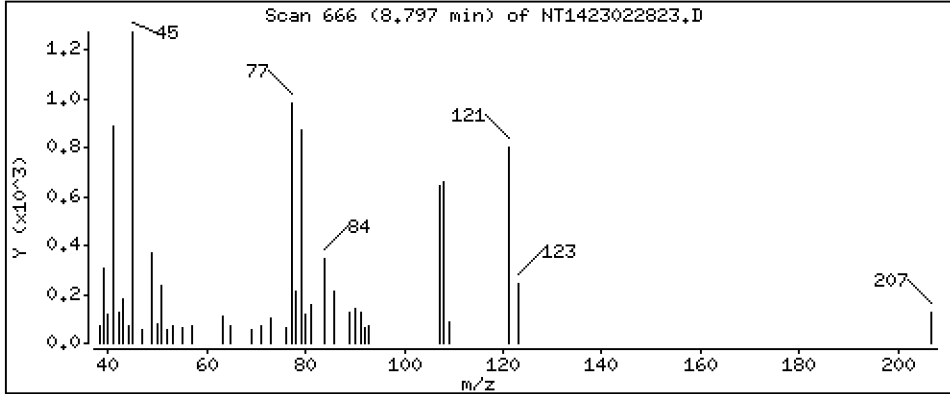
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 0,2138 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

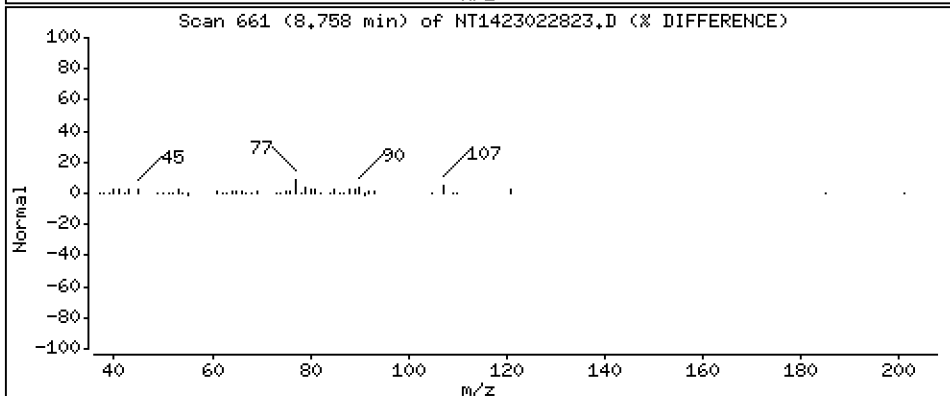
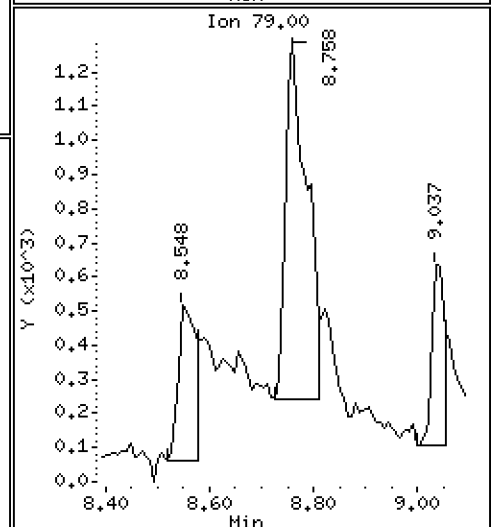
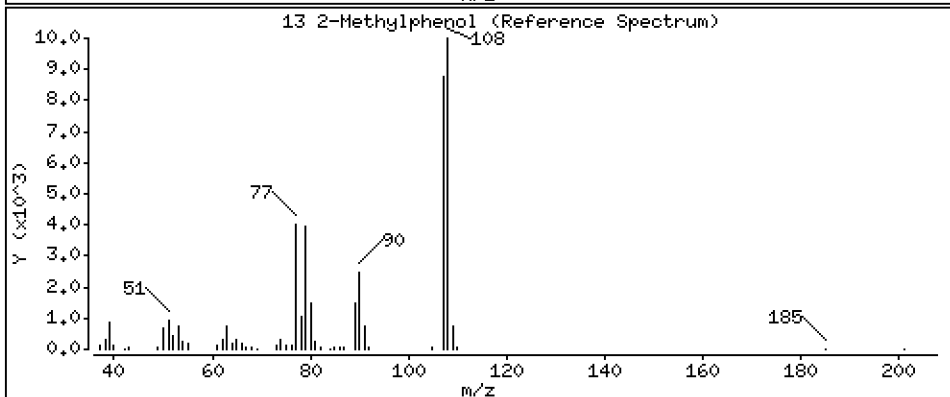
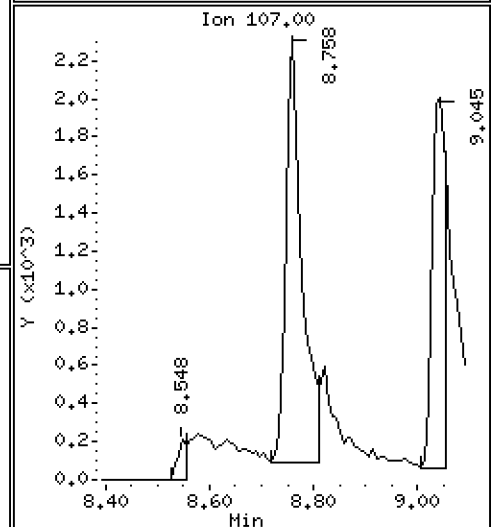
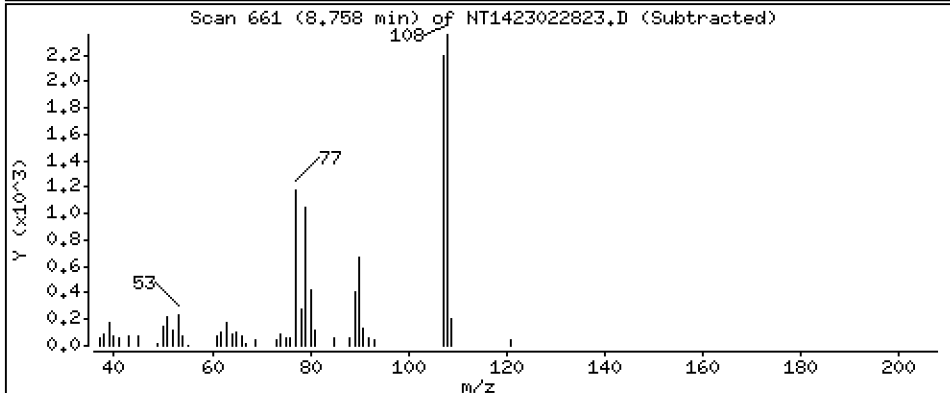
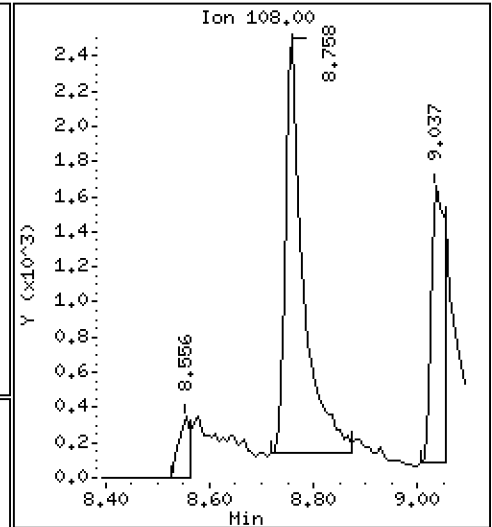
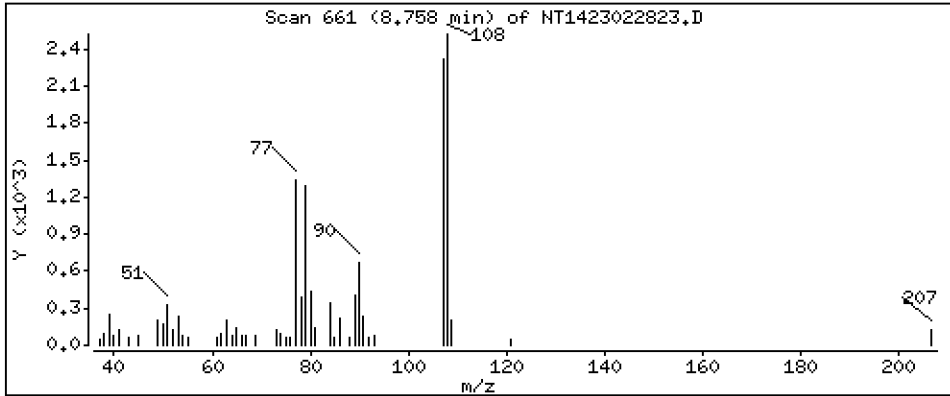
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

13 2-Methylphenol

Concentration: 0,1744 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

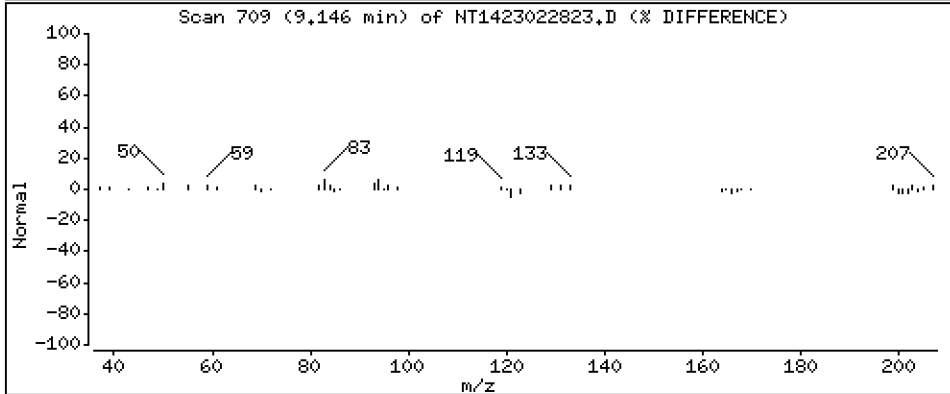
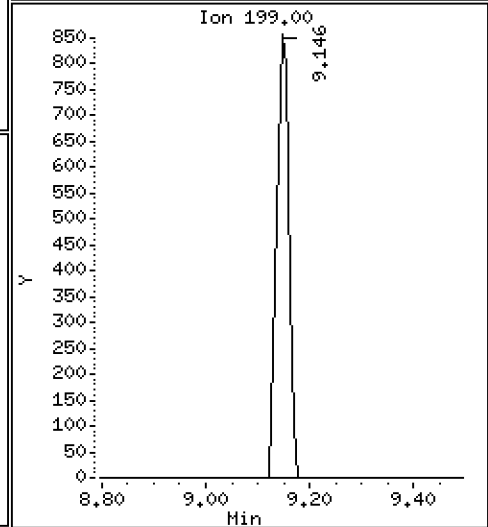
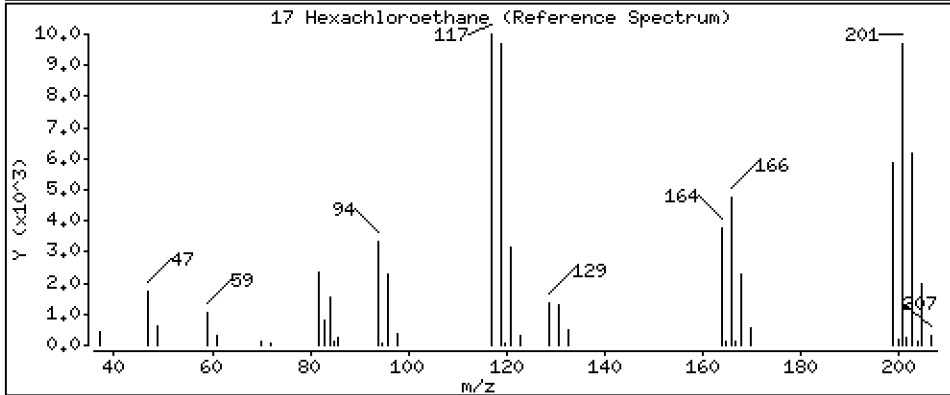
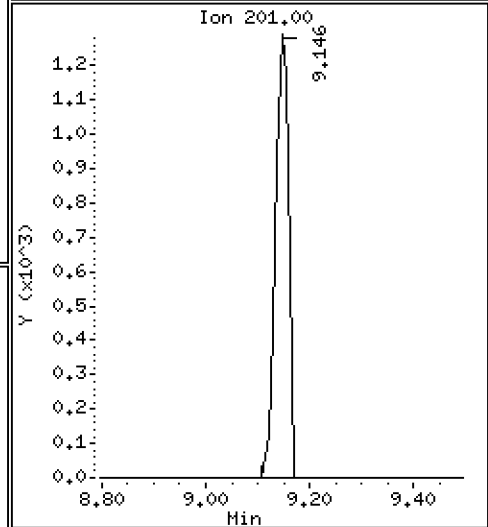
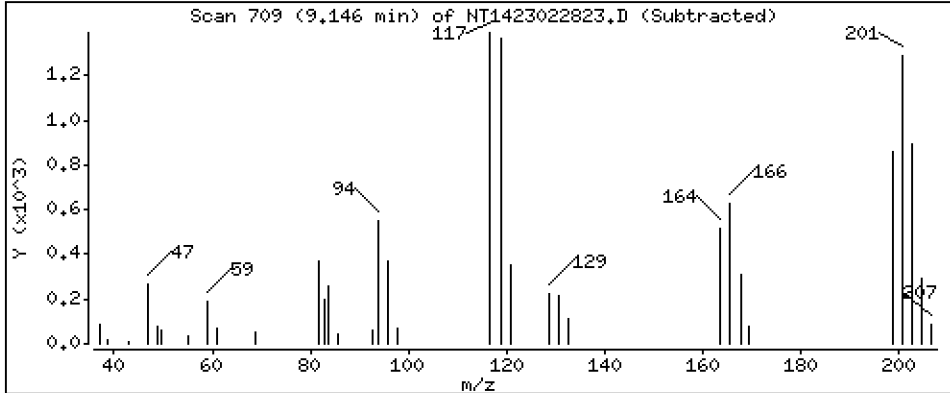
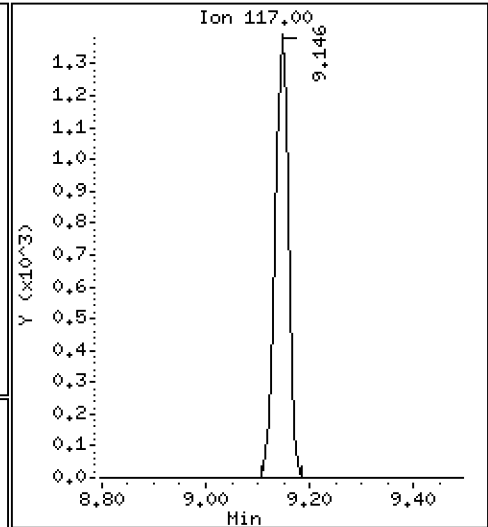
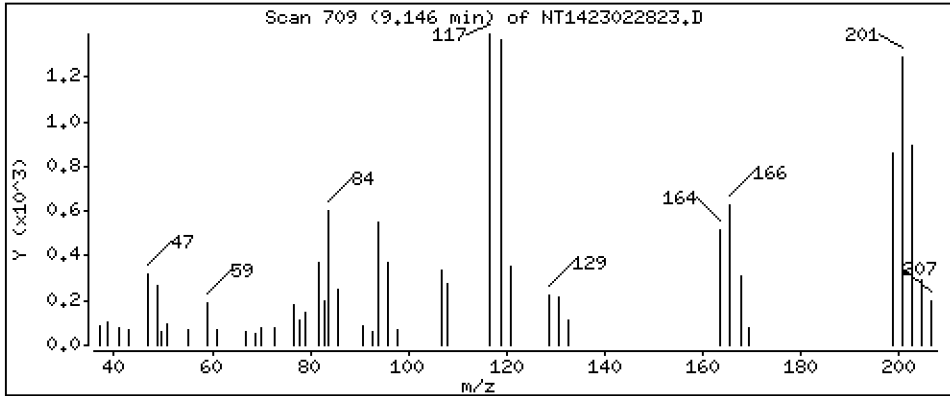
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

17 Hexachloroethane

Concentration: 0,1493 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

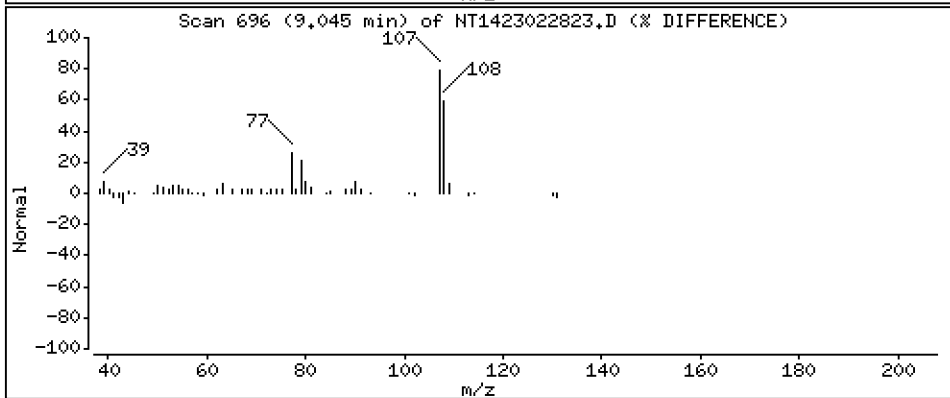
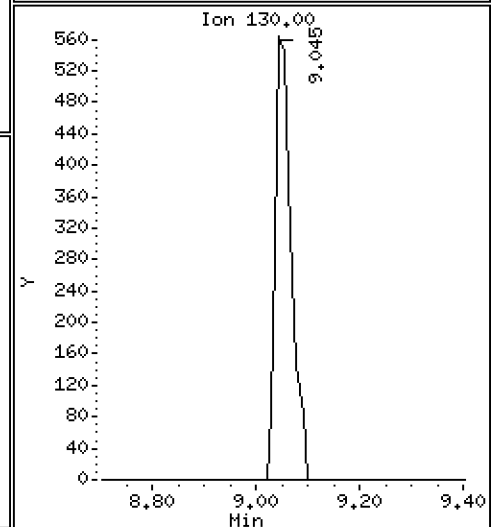
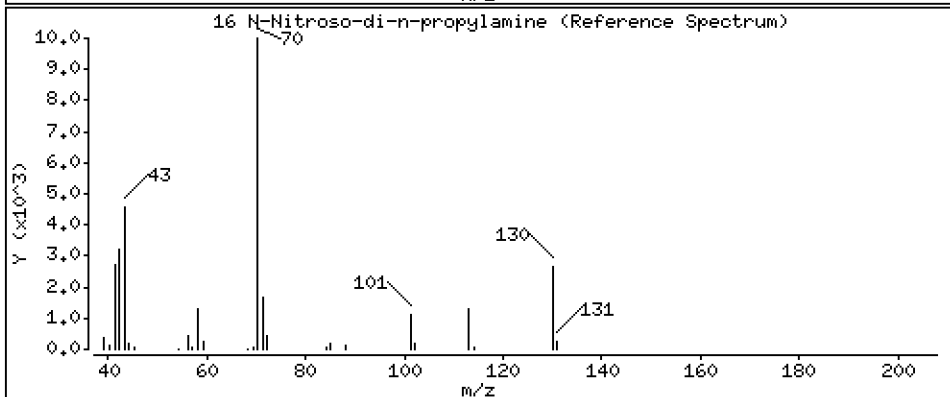
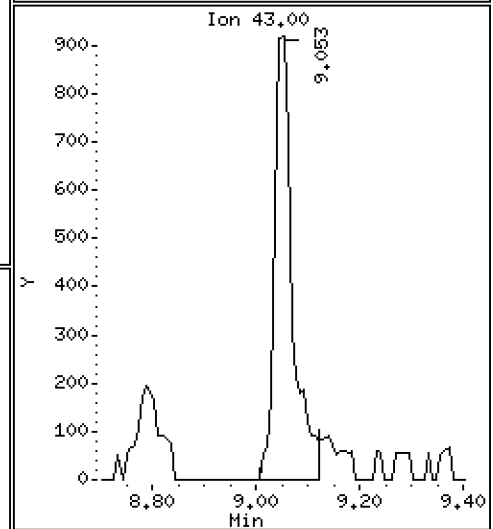
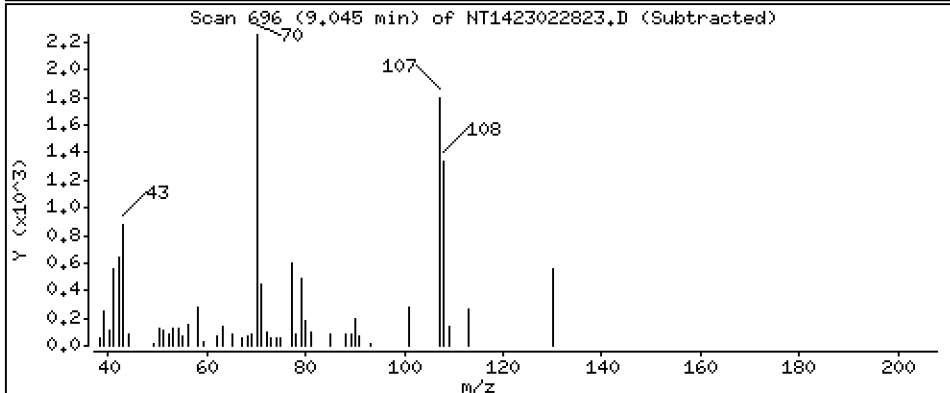
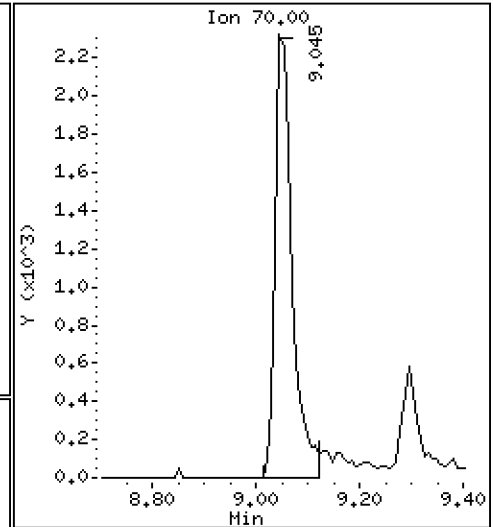
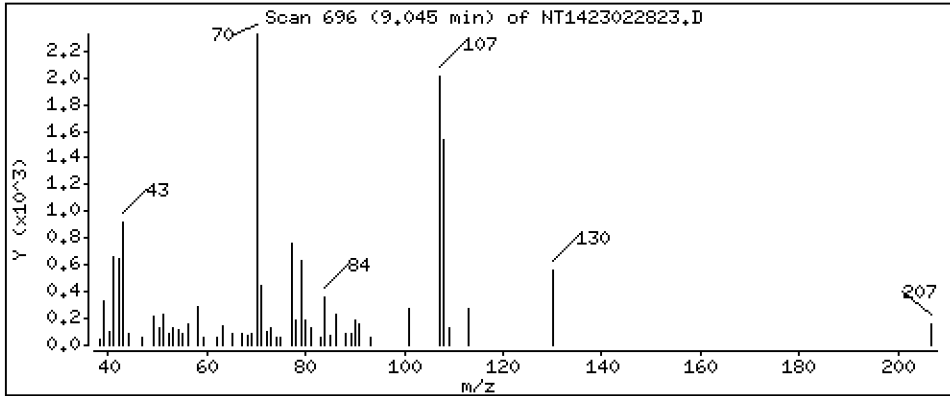
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

16 N-Nitroso-di-n-propylamine

Concentration: 0,2015 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

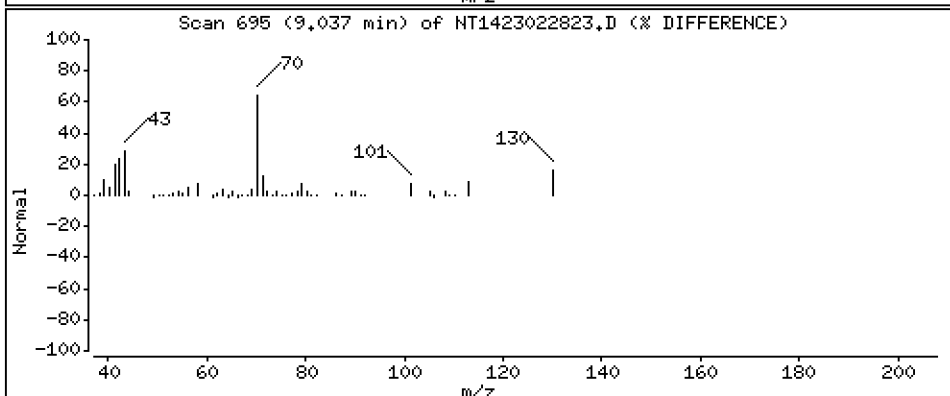
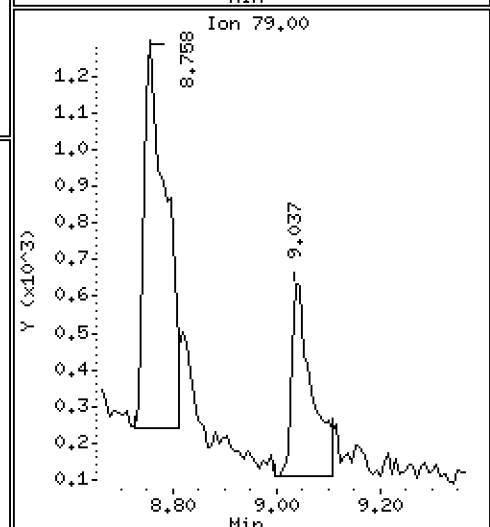
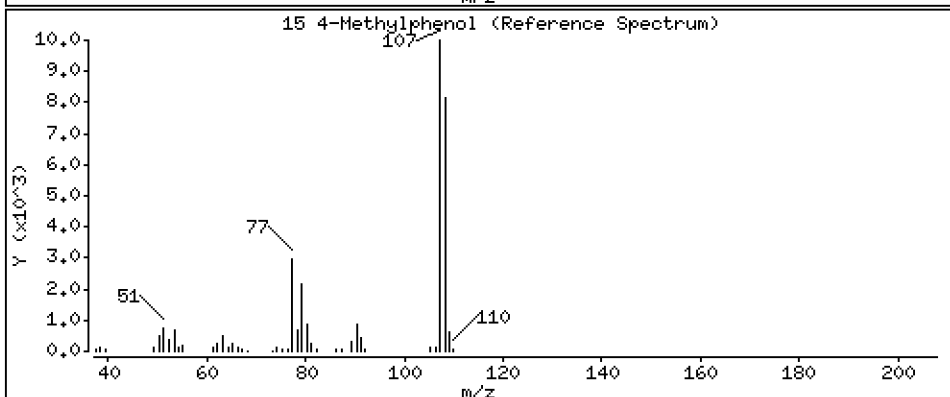
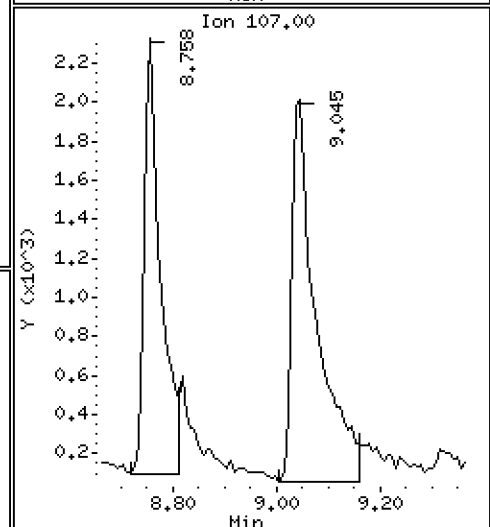
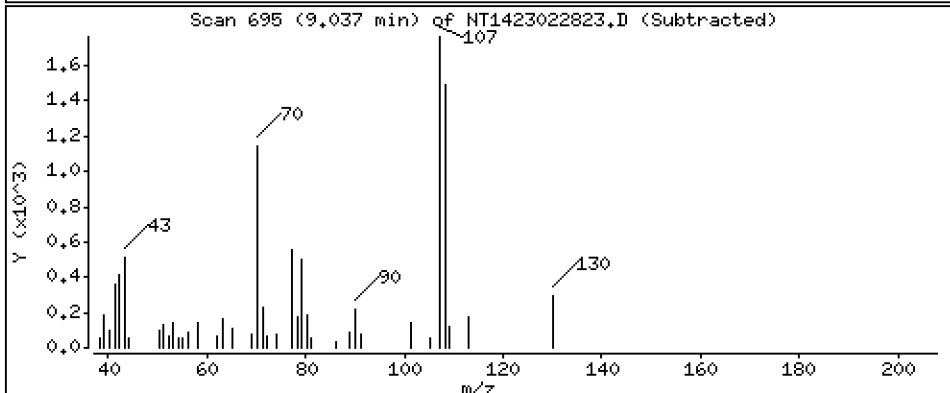
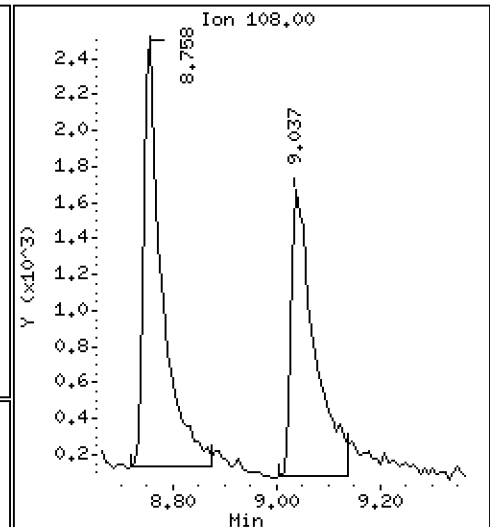
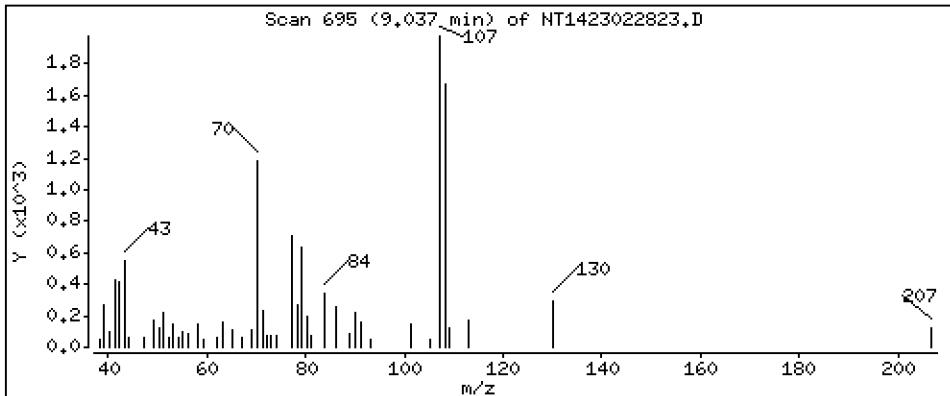
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 0.1318 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

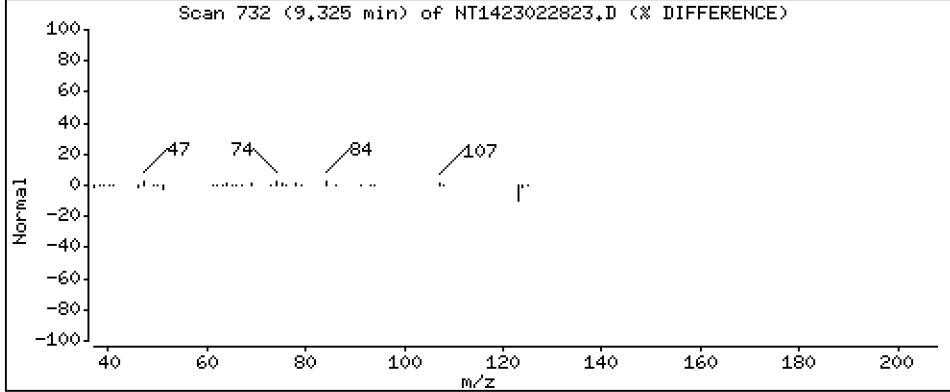
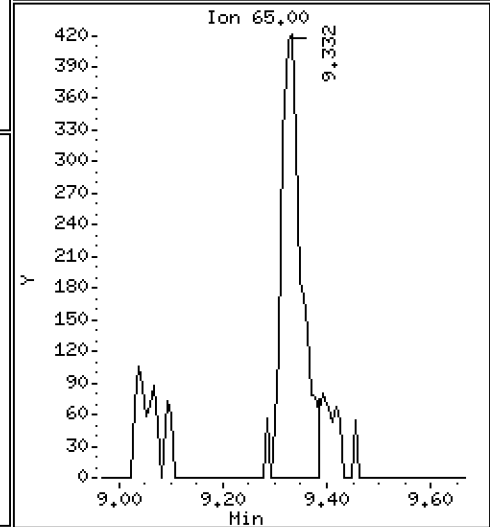
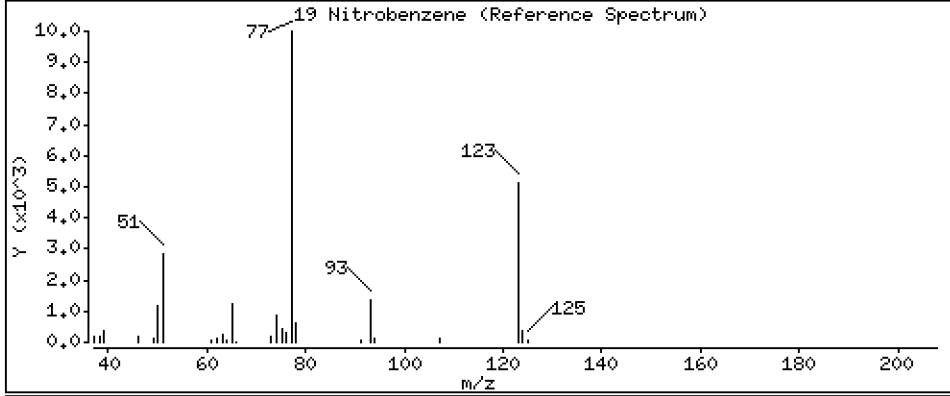
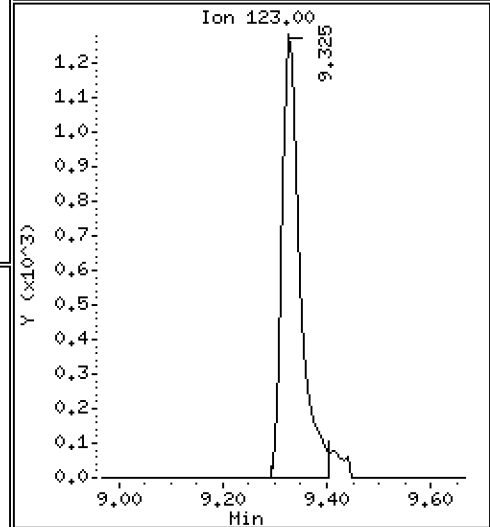
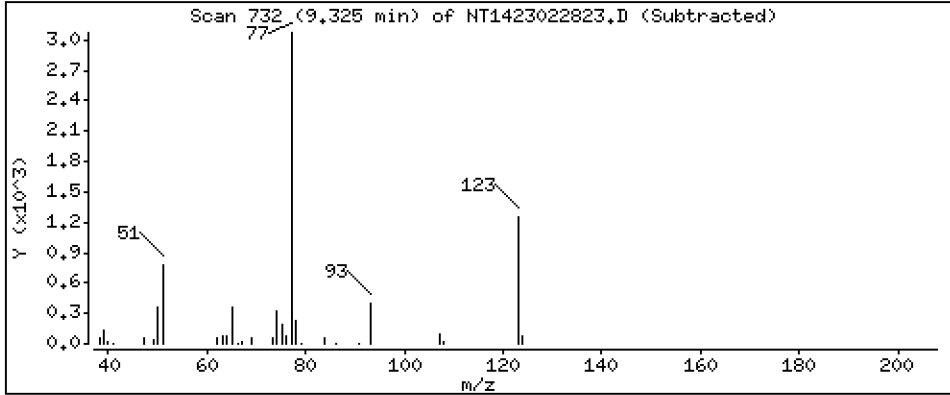
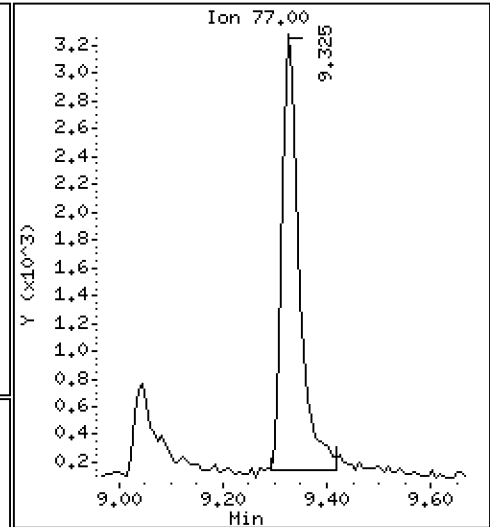
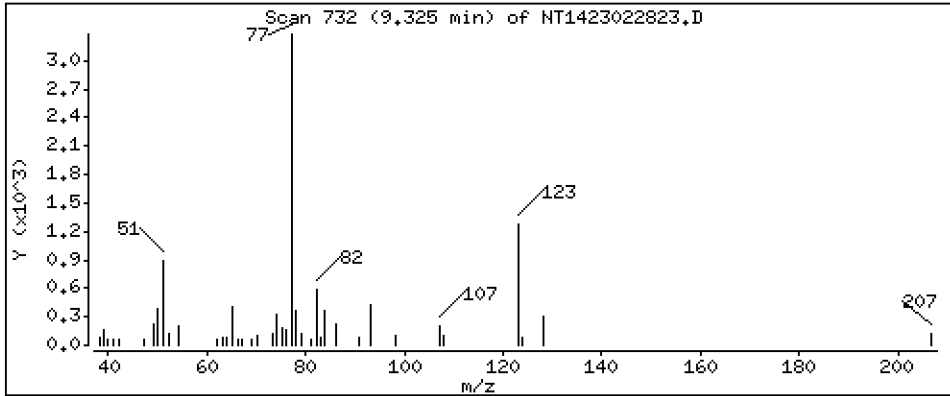
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

19 Nitrobenzene

Concentration: 0.1841 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

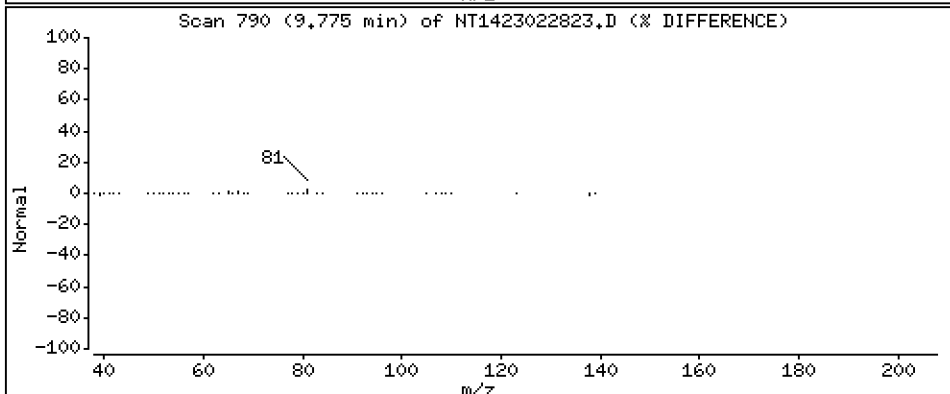
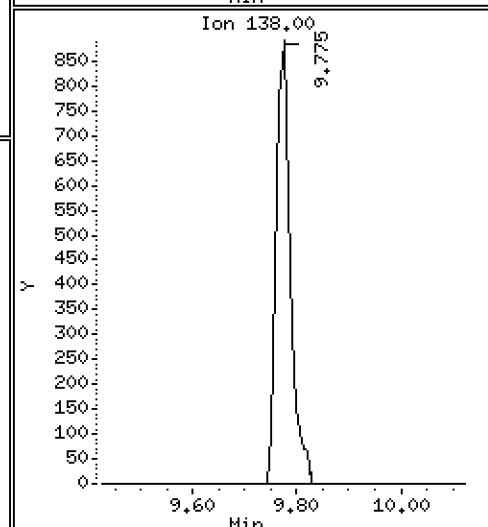
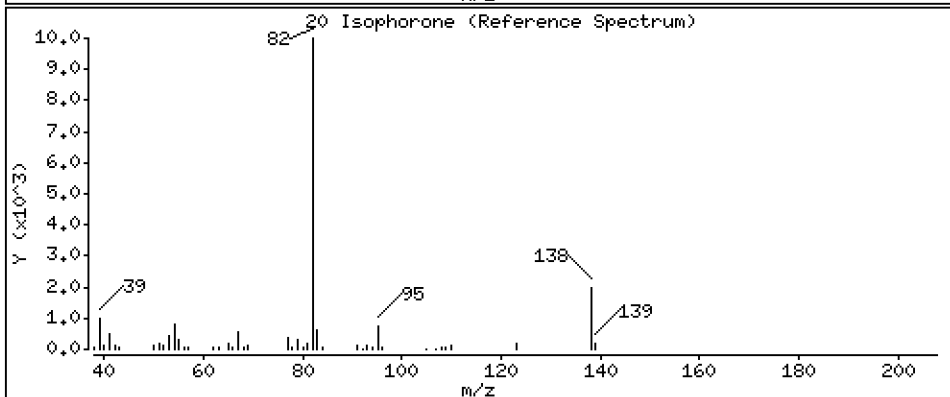
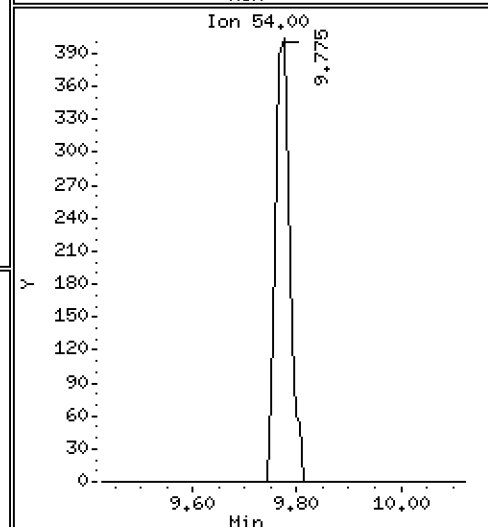
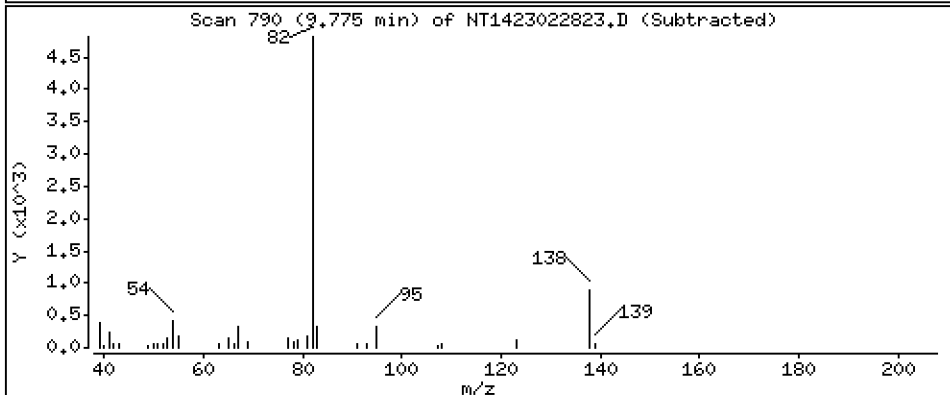
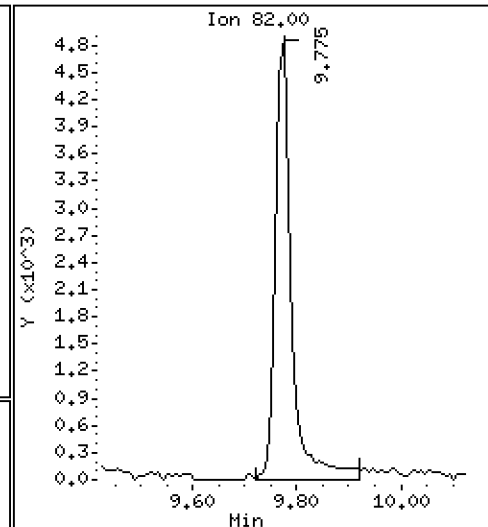
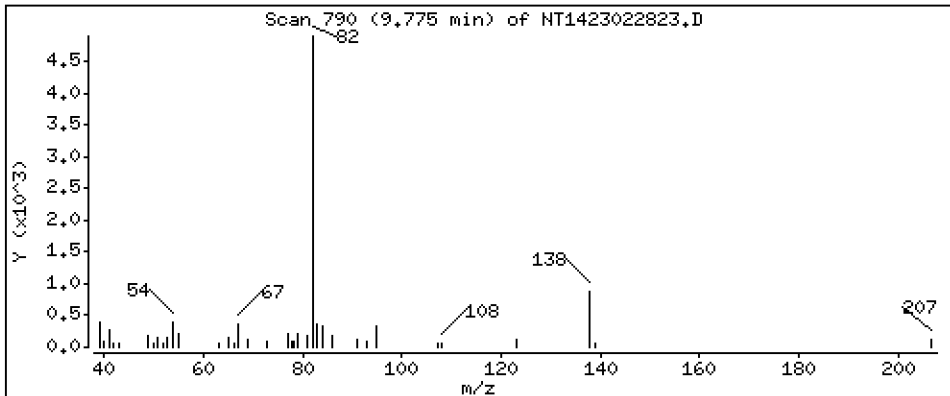
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

20 Isophorone

Concentration: 0,1811 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

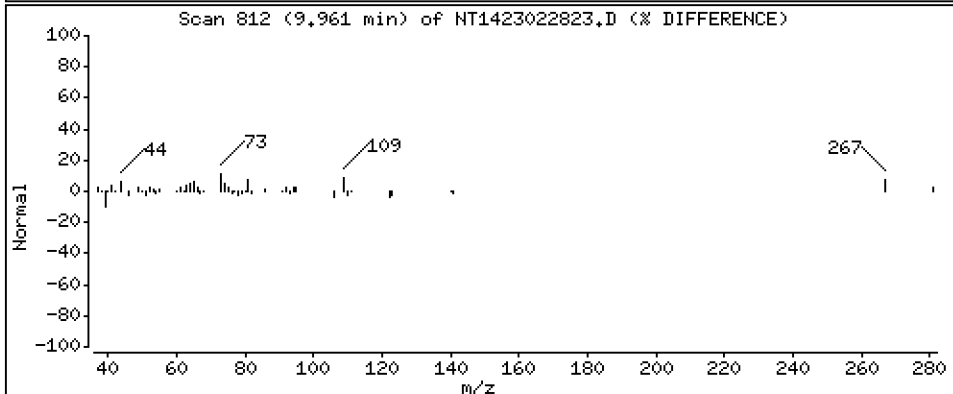
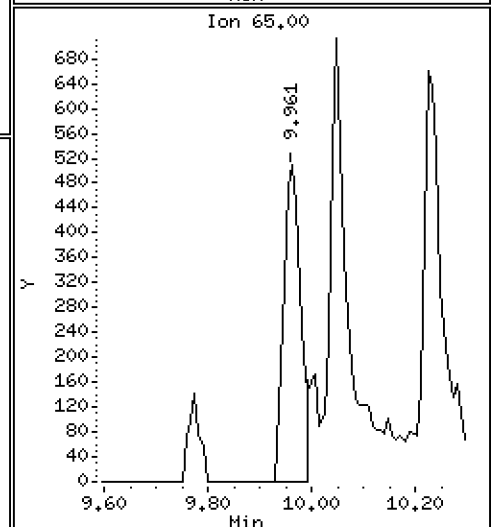
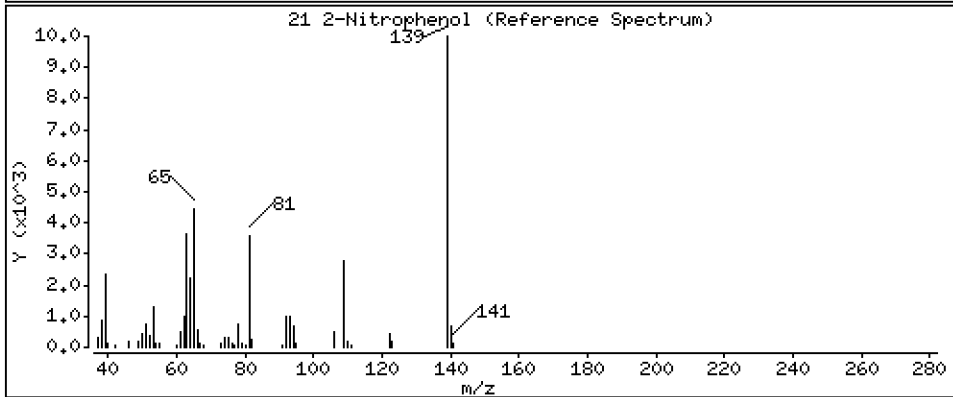
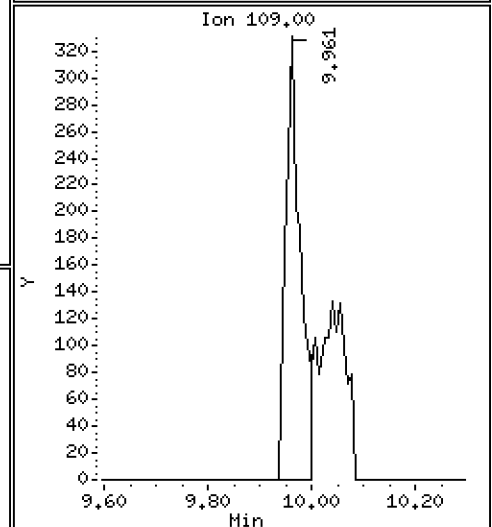
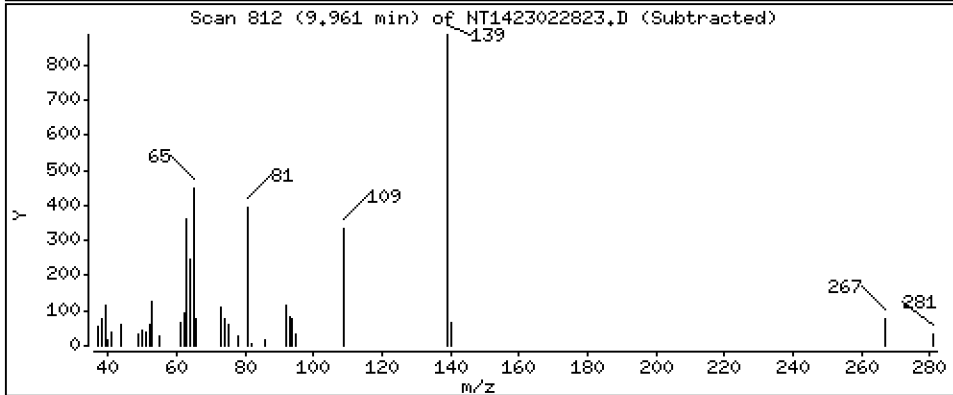
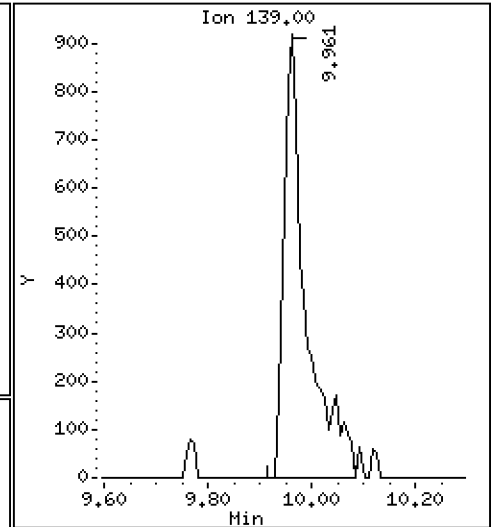
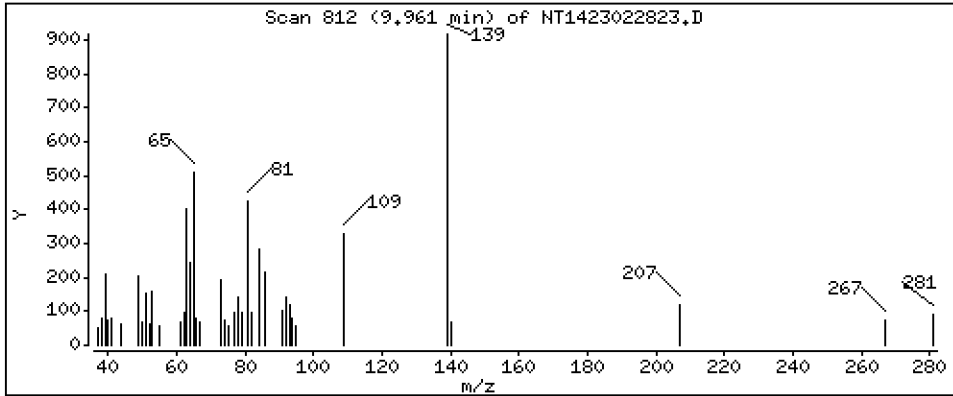
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

Concentration: 0,1380 ug/mL

21 2-Nitrophenol



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

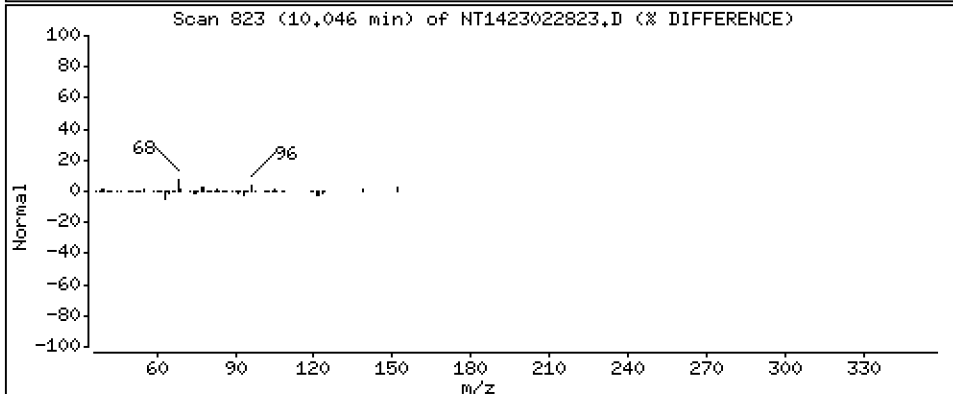
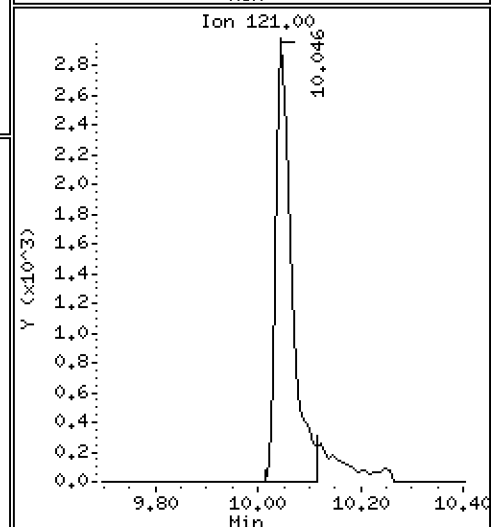
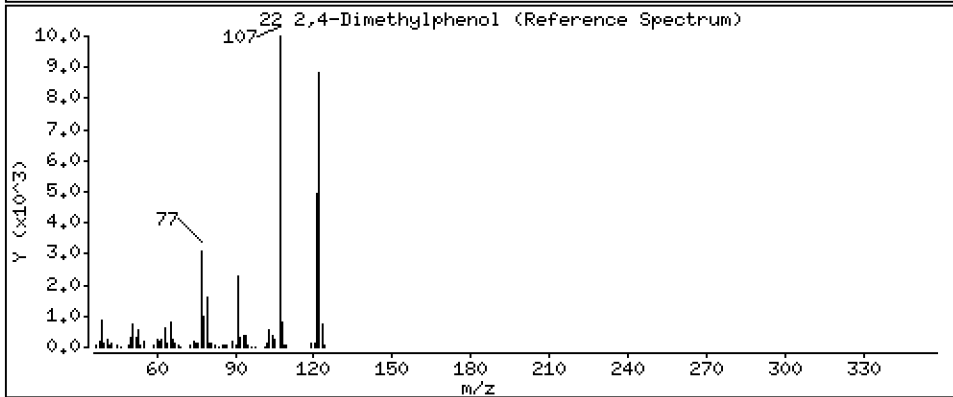
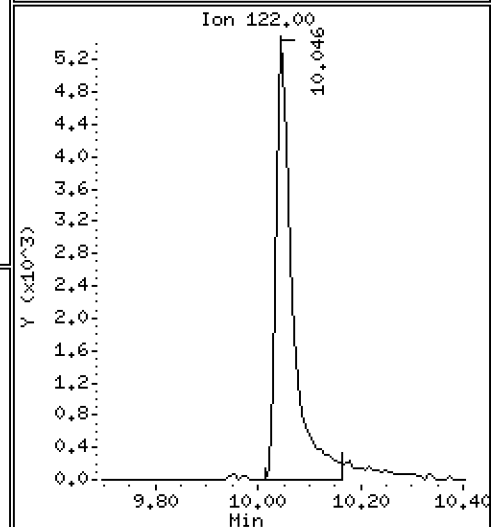
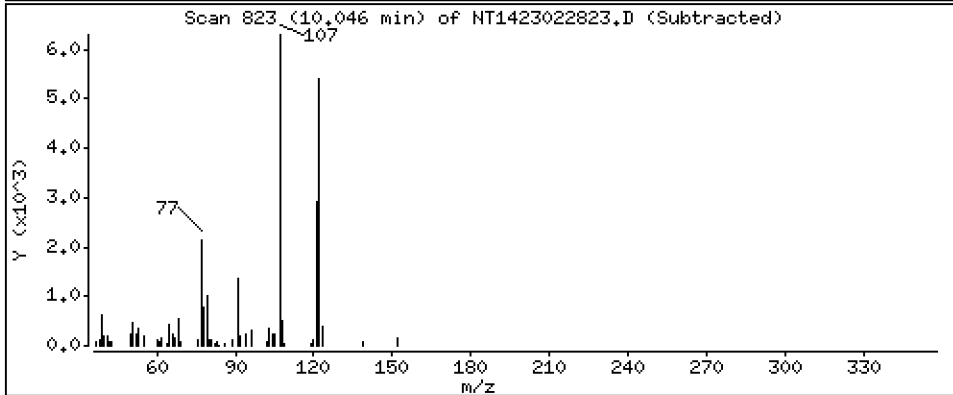
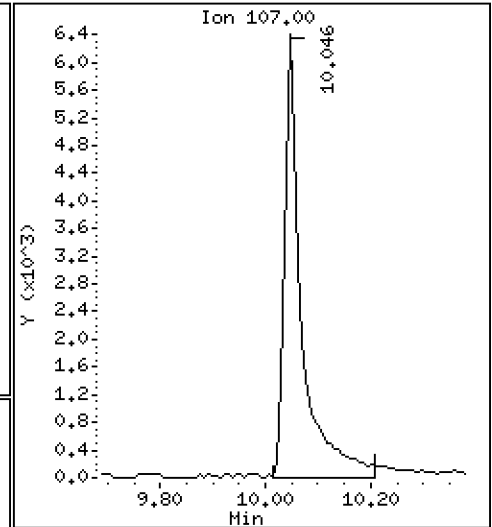
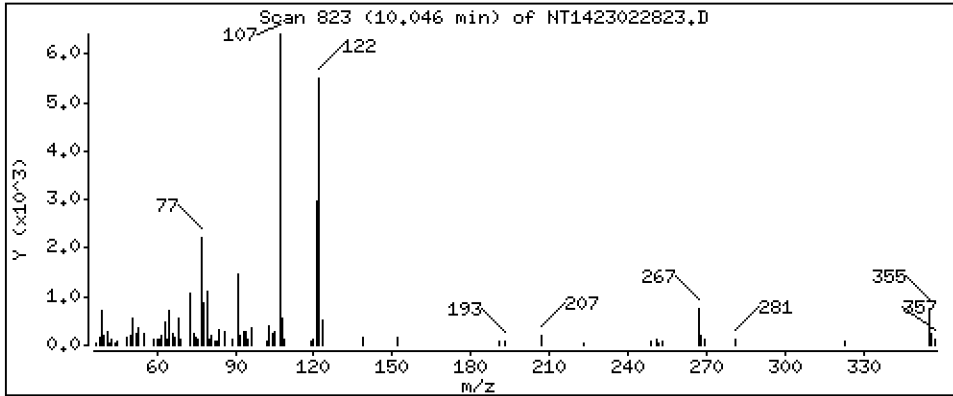
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 0,4132 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

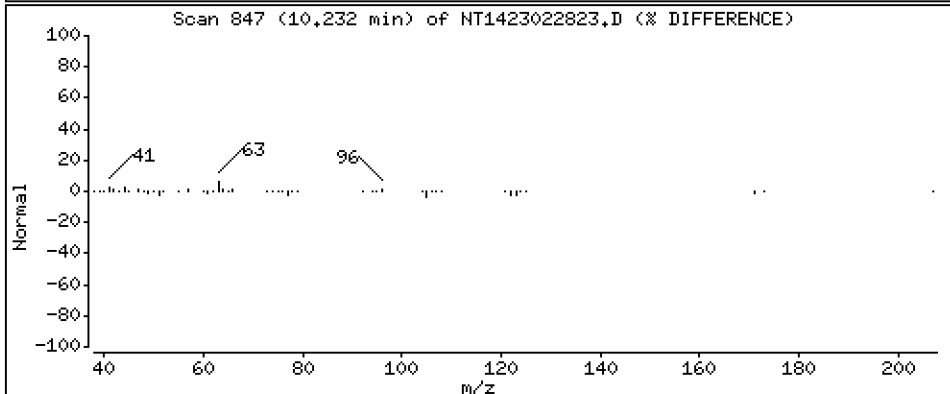
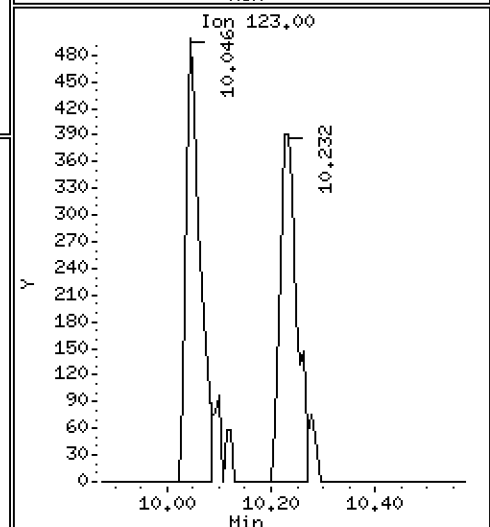
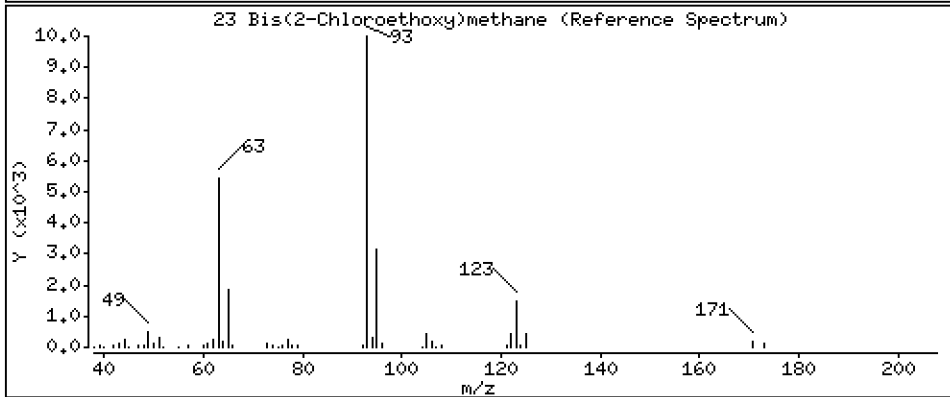
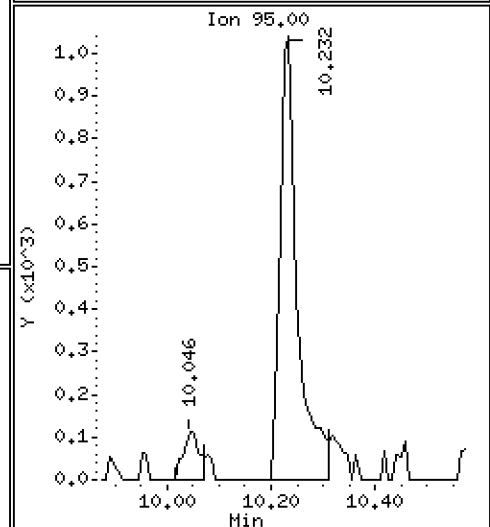
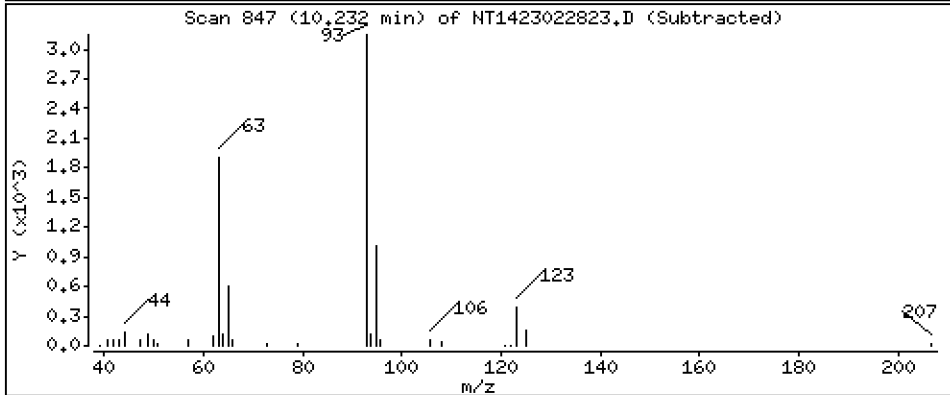
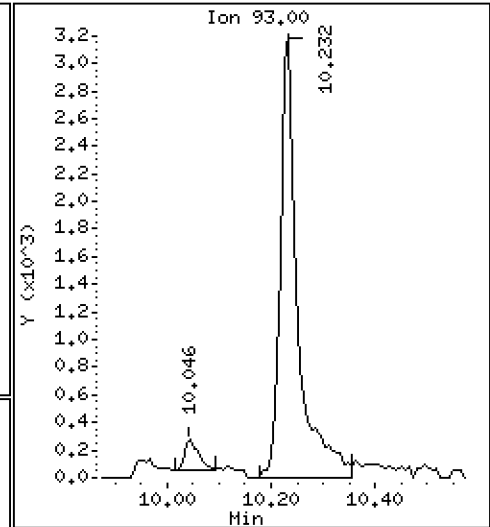
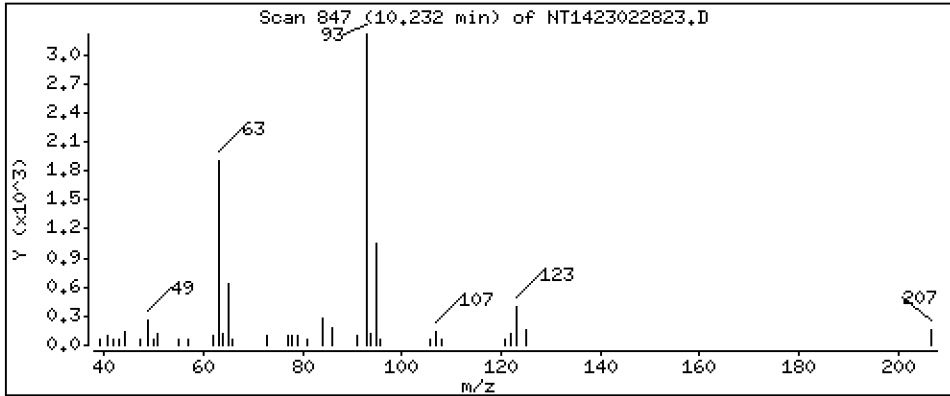
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

23 Bis(2-Chloroethoxy)methane

Concentration: 0.1957 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

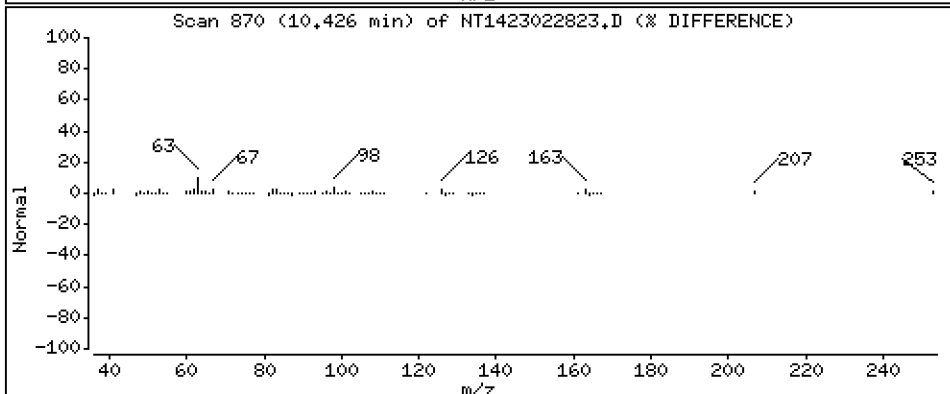
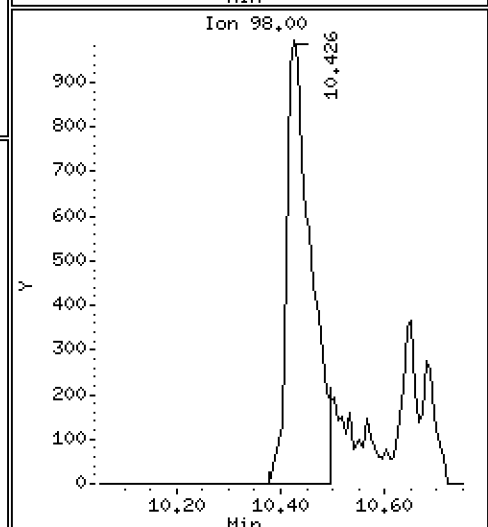
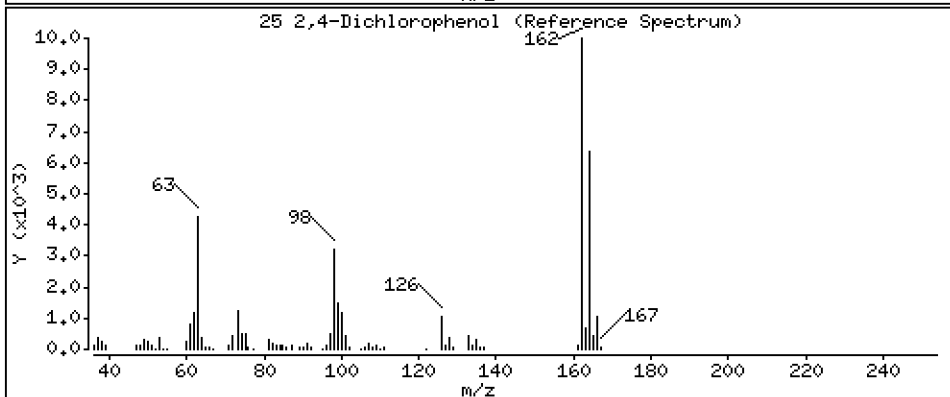
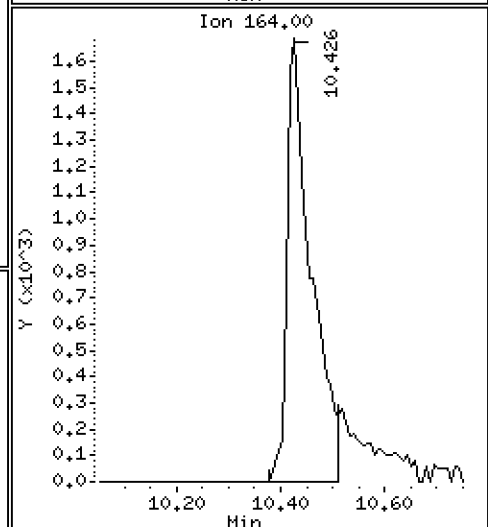
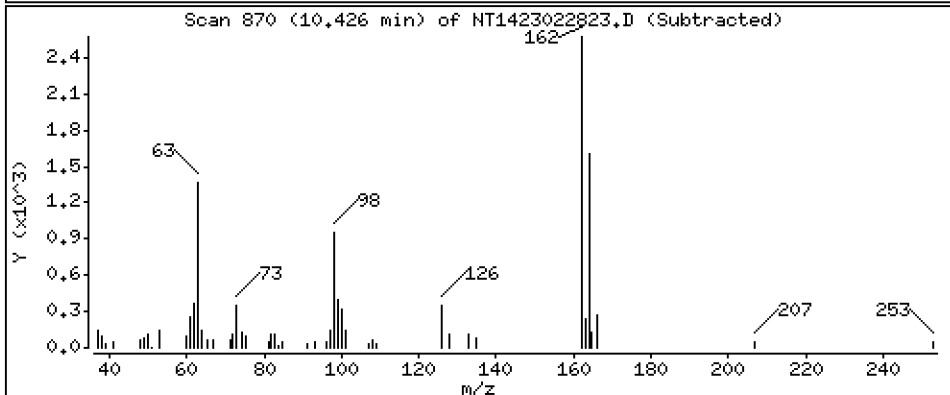
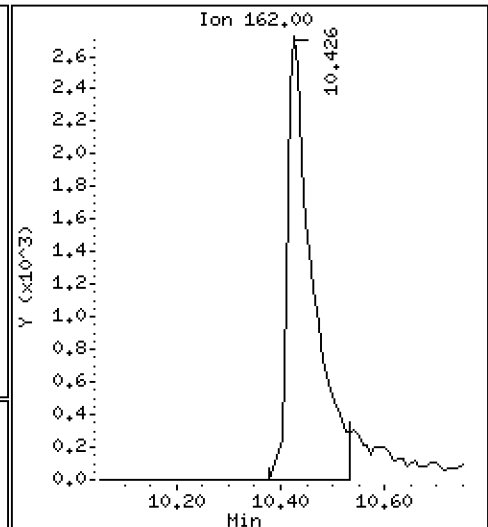
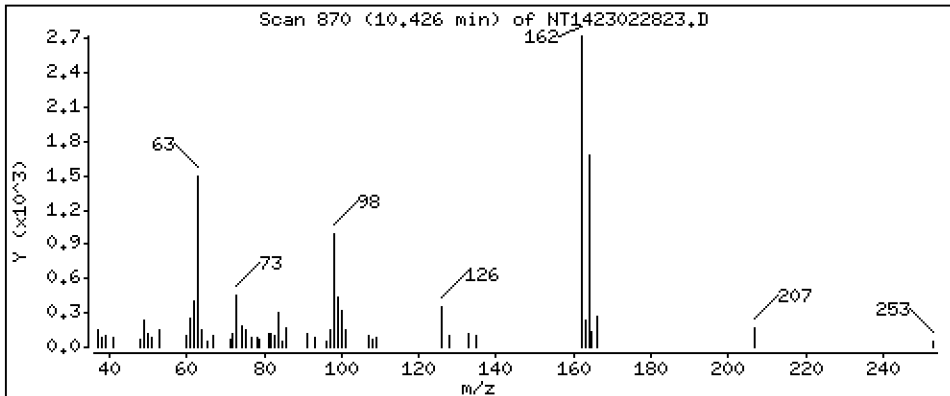
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 0,2896 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

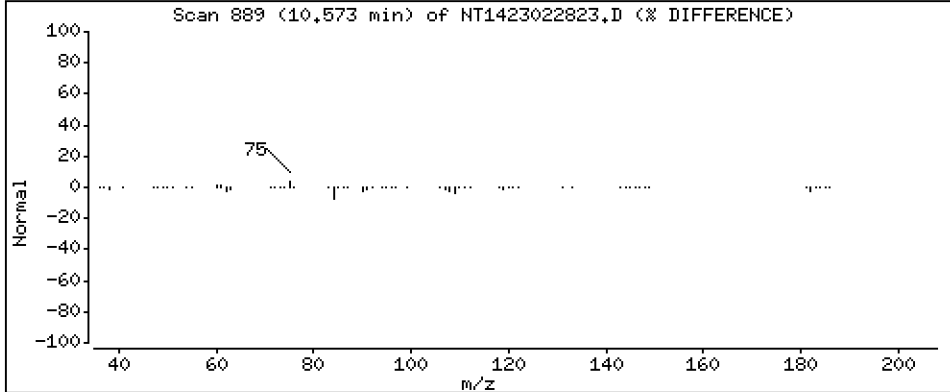
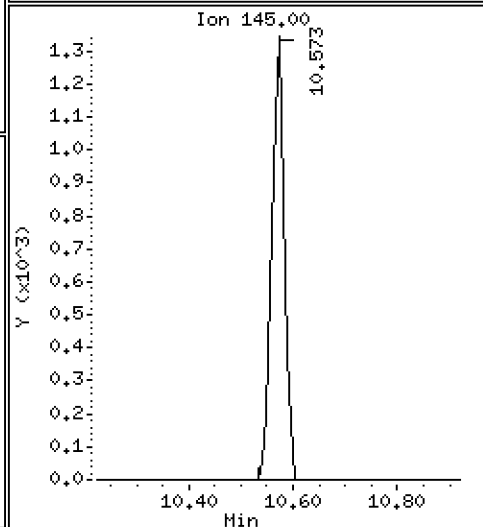
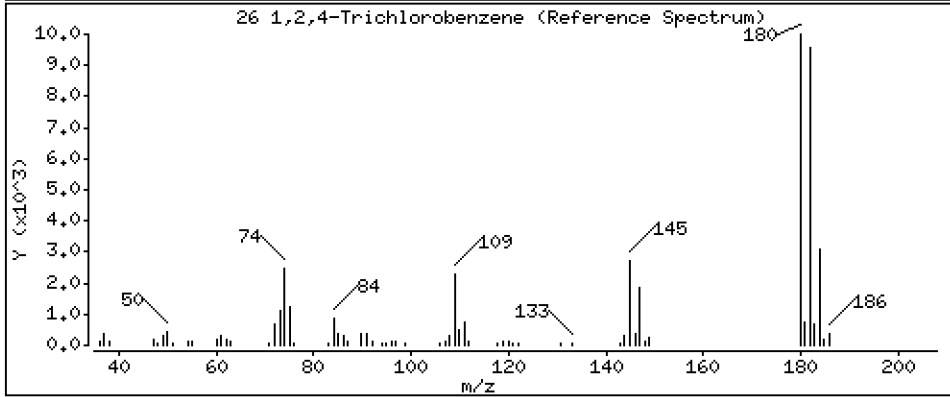
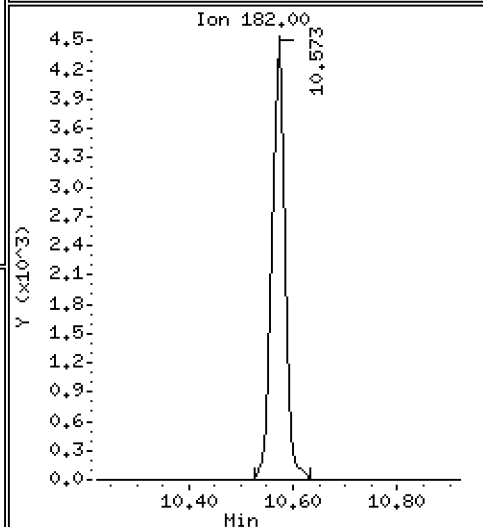
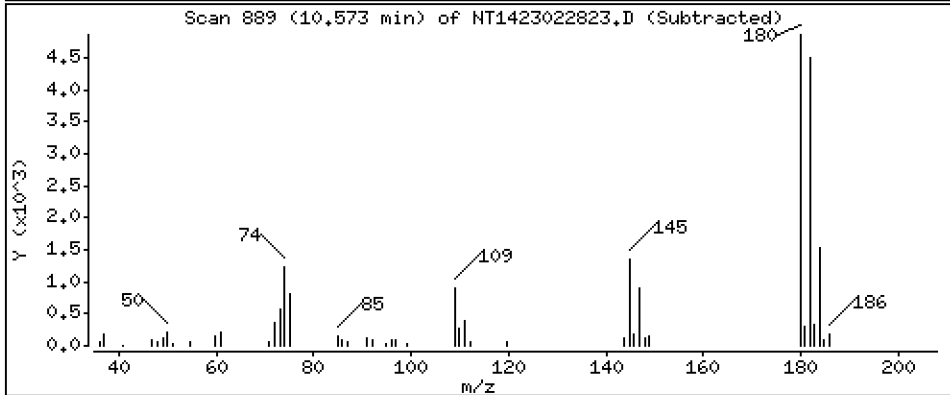
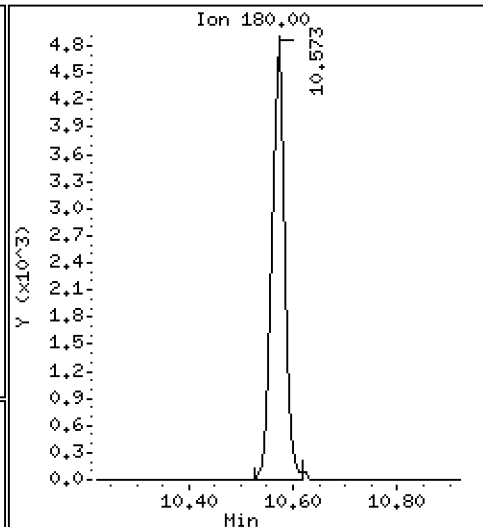
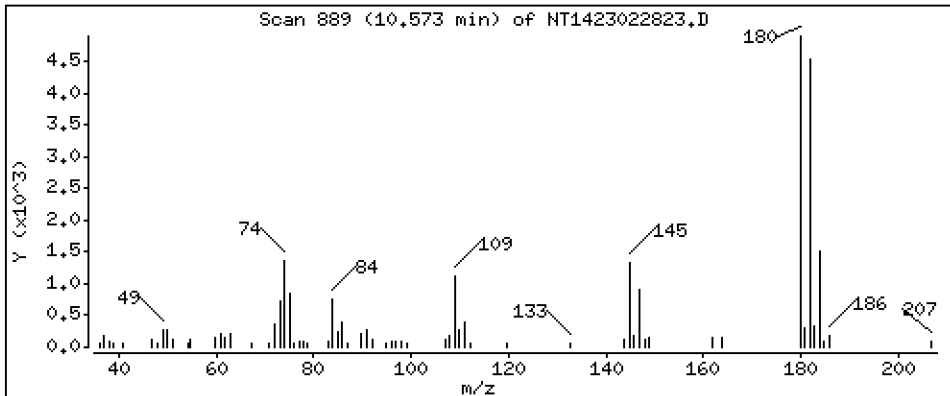
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 0,2035 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

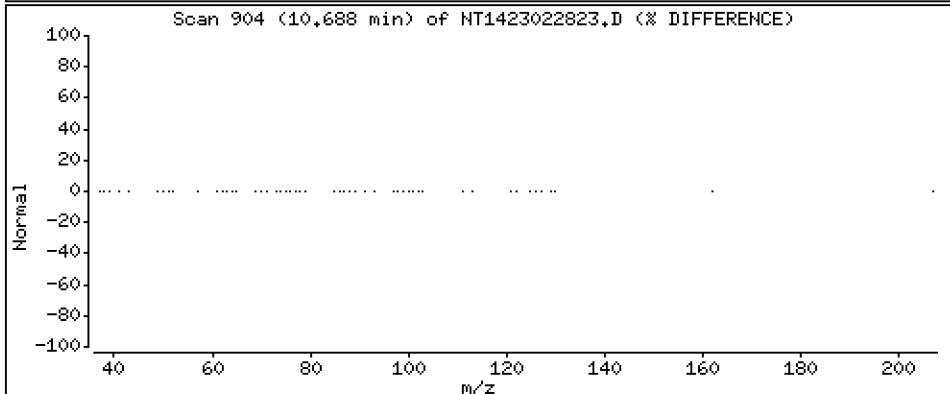
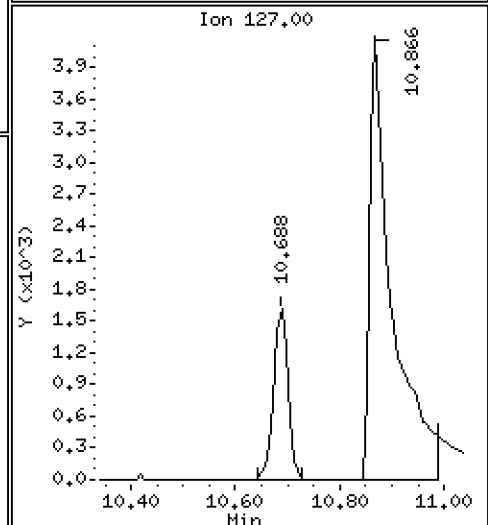
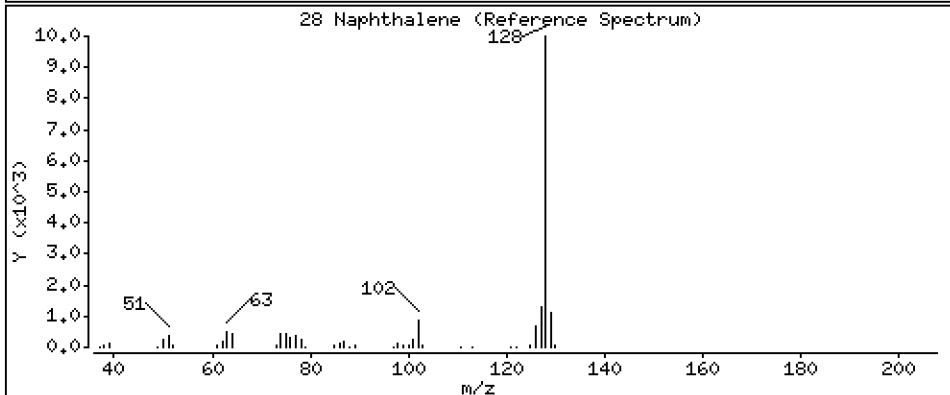
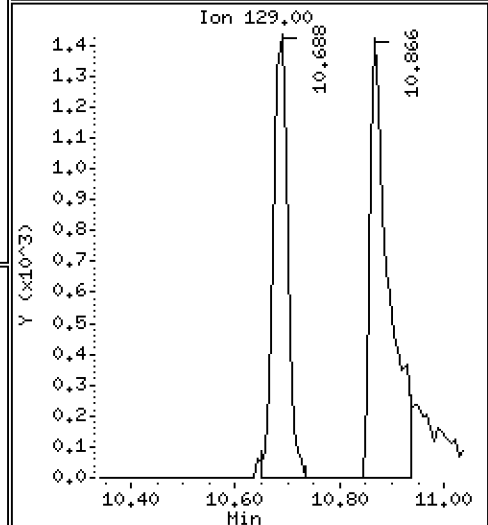
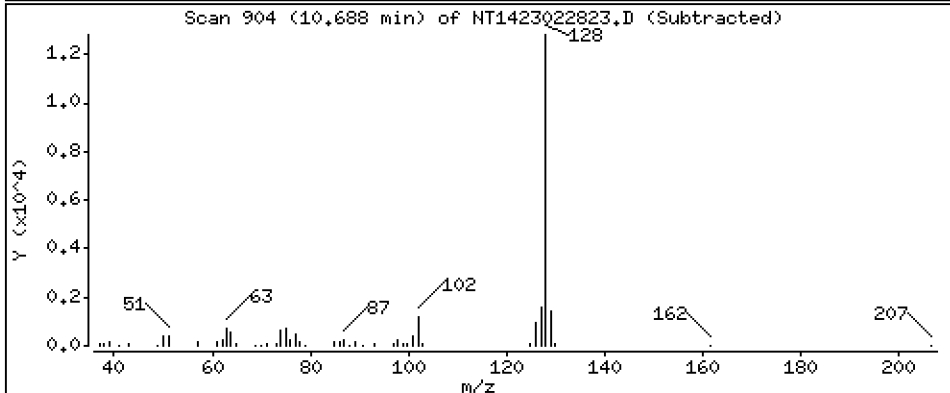
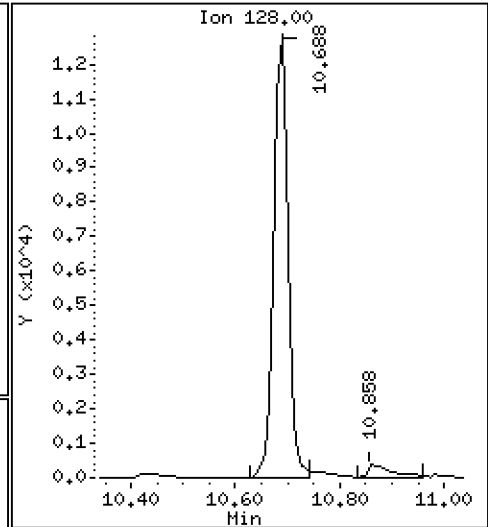
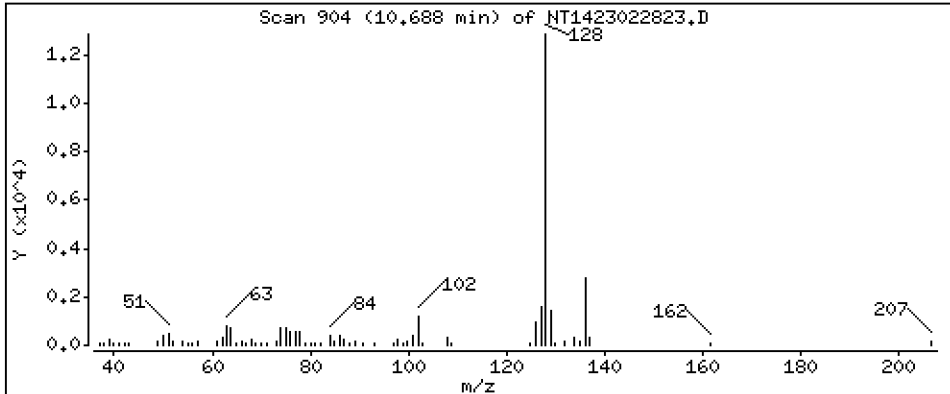
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 0,2136 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

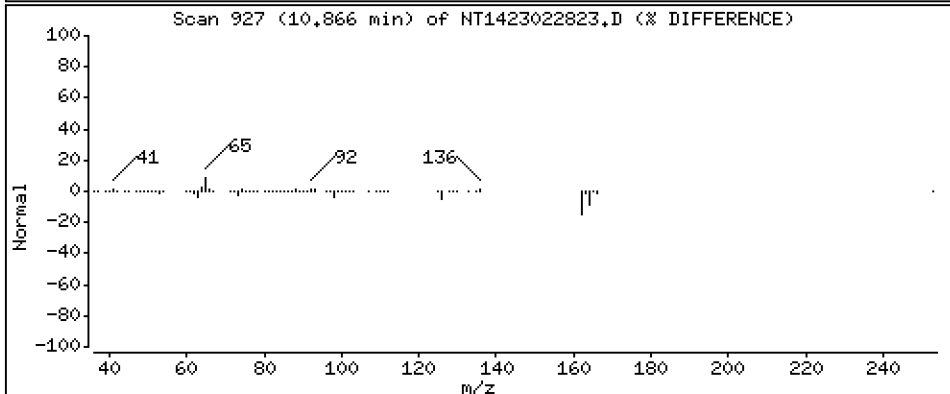
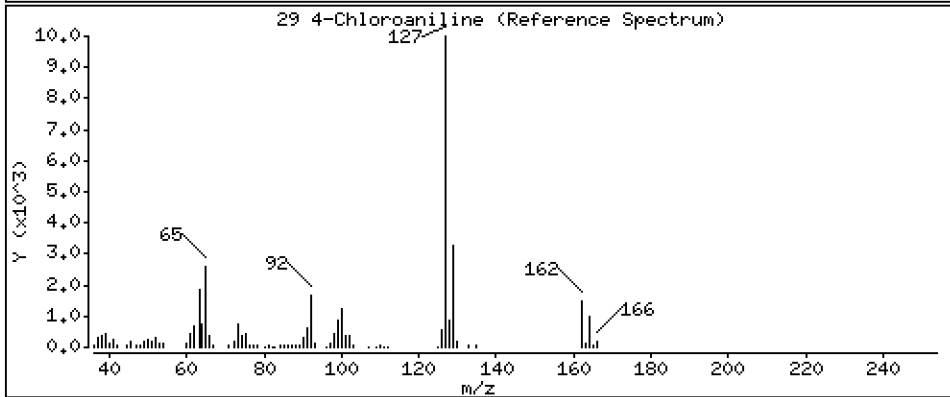
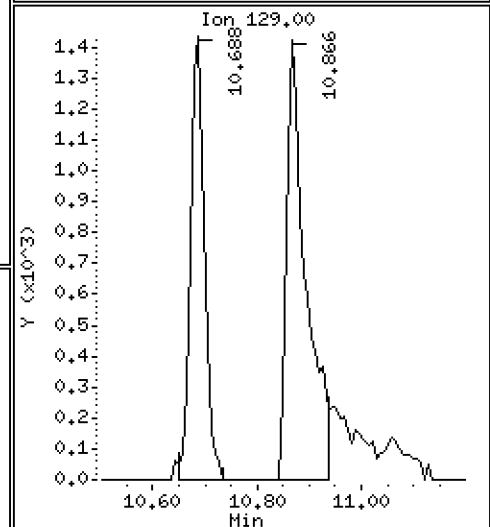
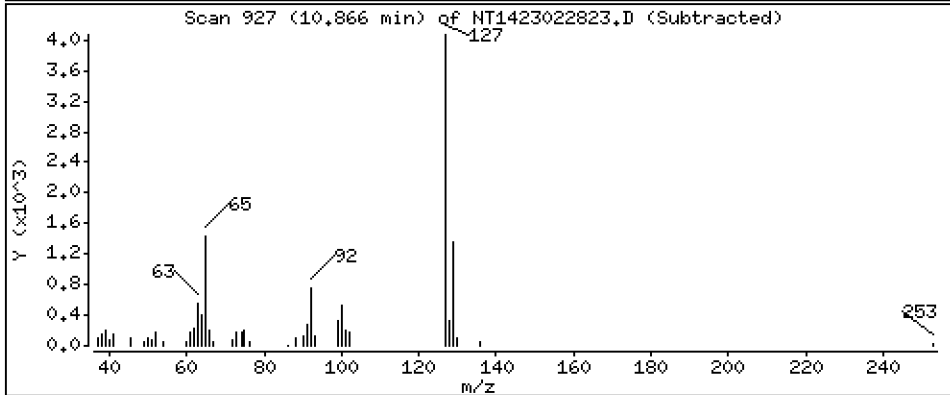
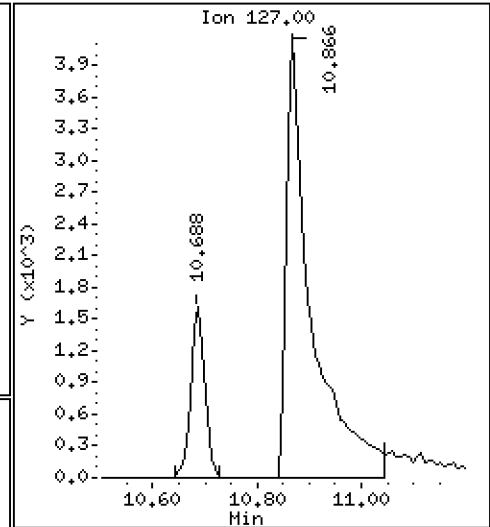
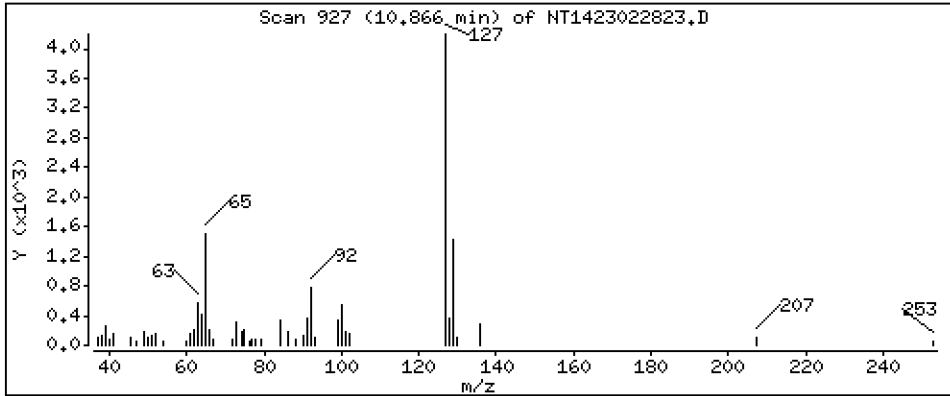
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

29 4-Chloroaniline

Concentration: 0,3143 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

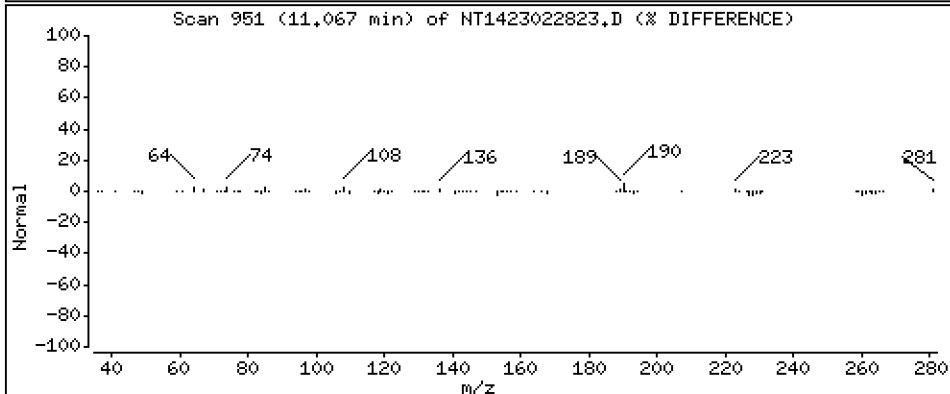
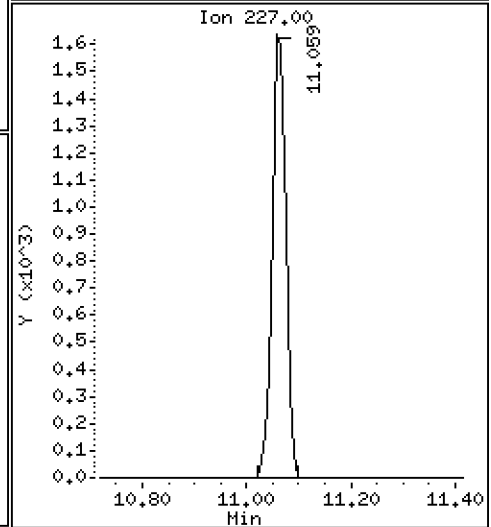
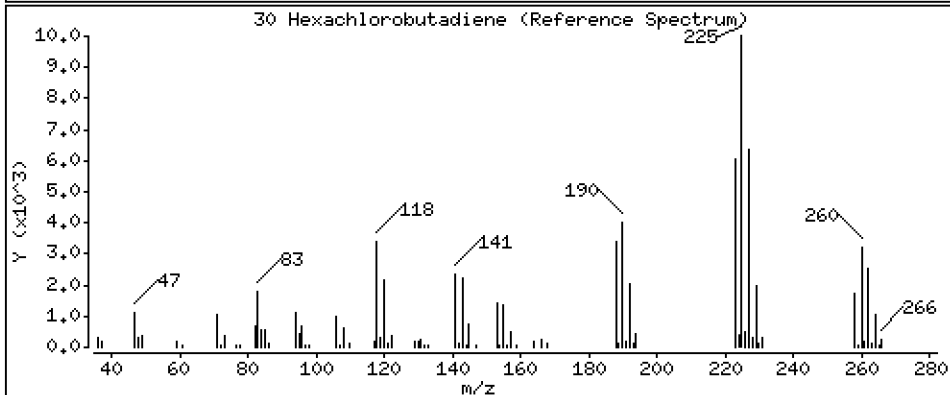
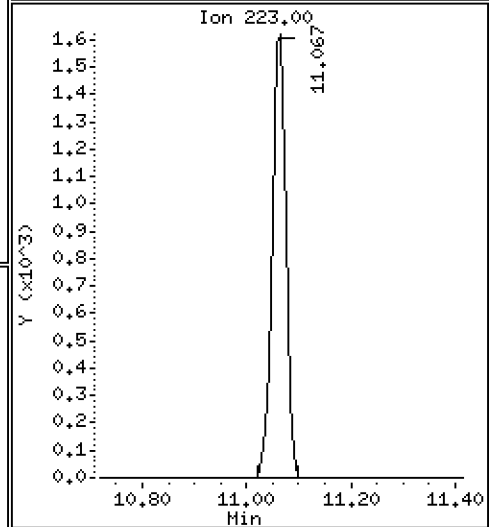
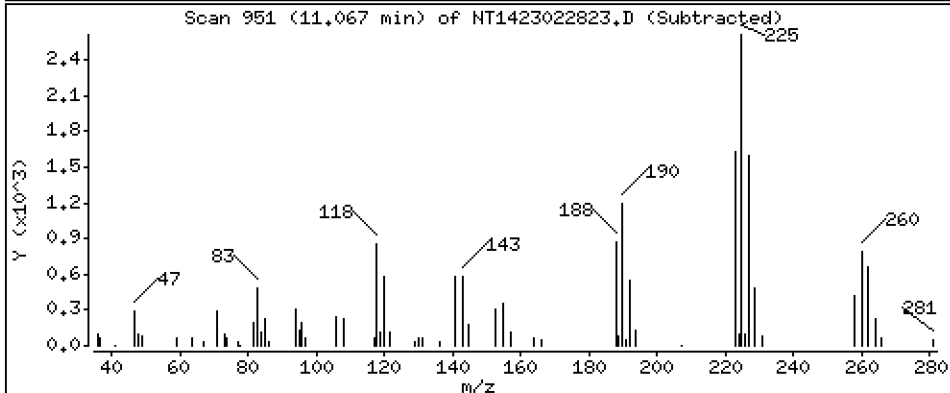
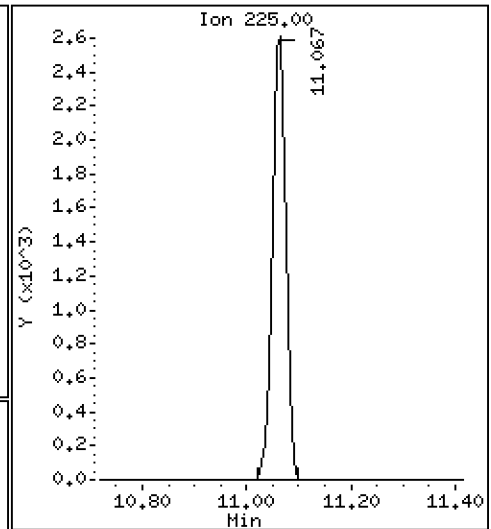
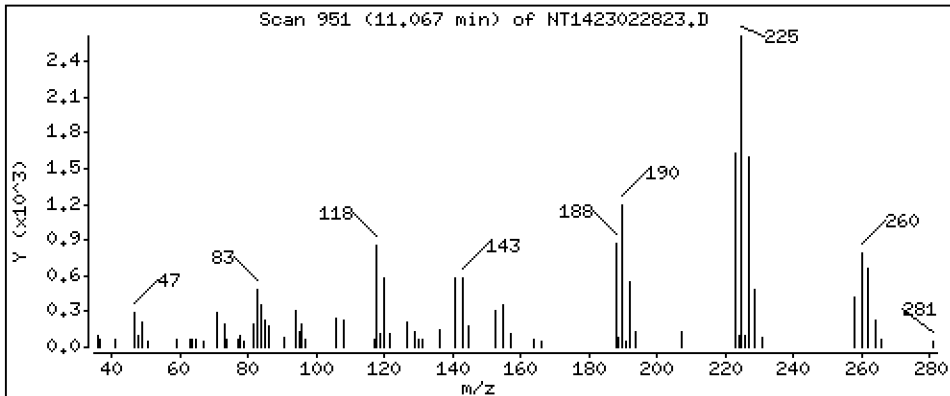
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 0,1874 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

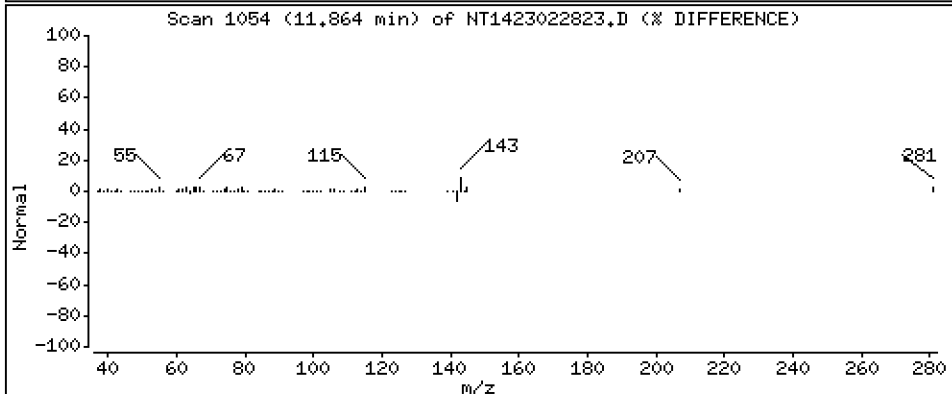
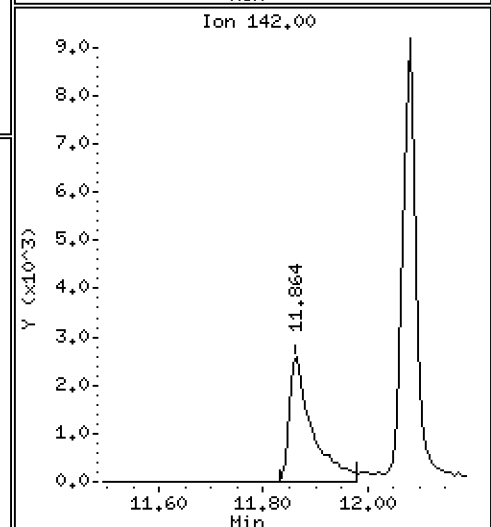
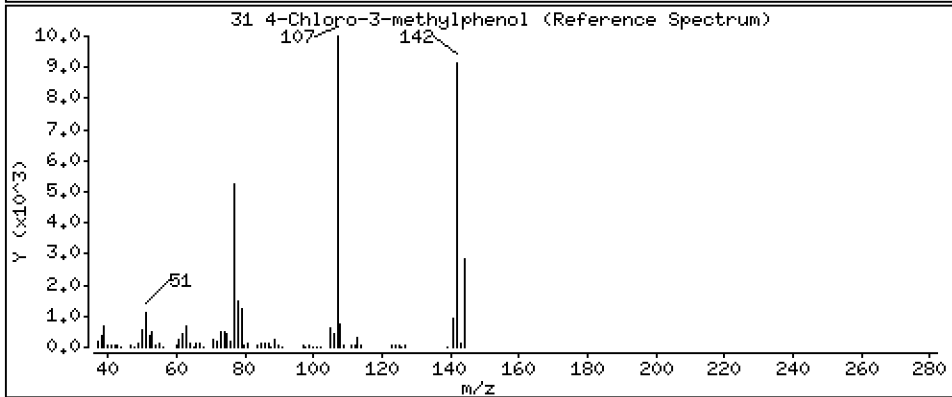
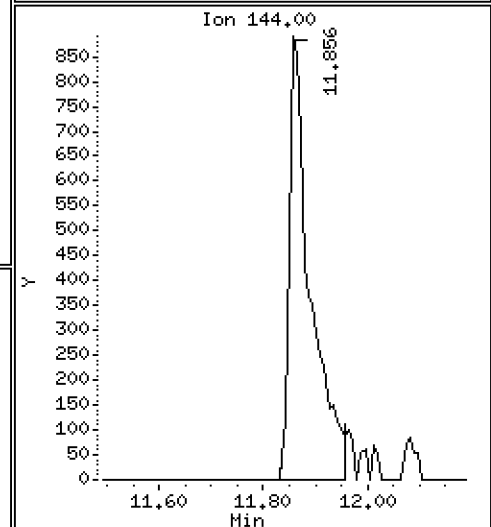
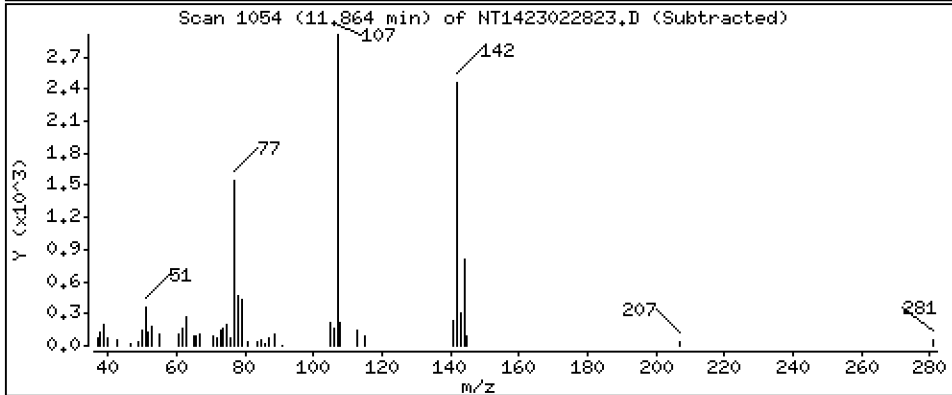
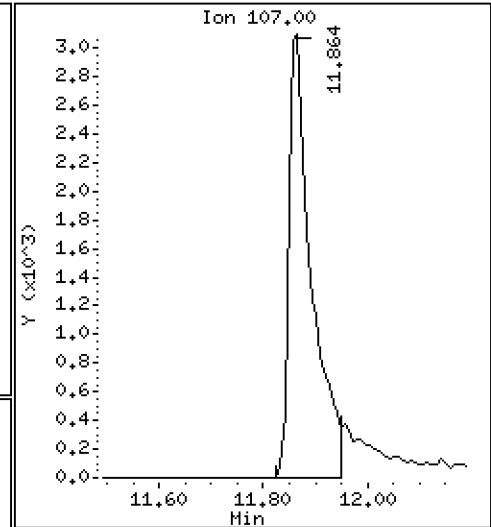
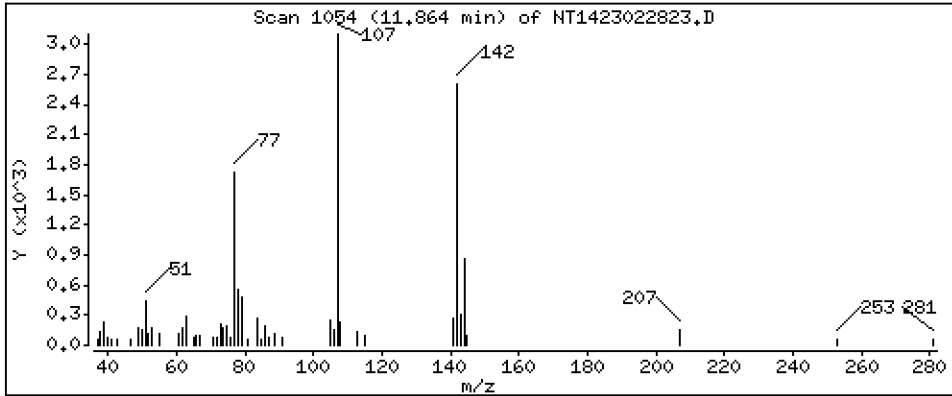
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

31 4-Chloro-3-methylphenol

Concentration: 0.3044 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

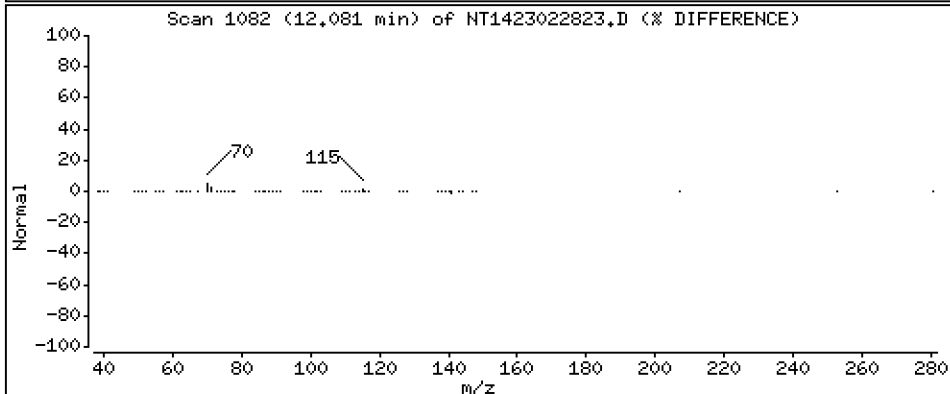
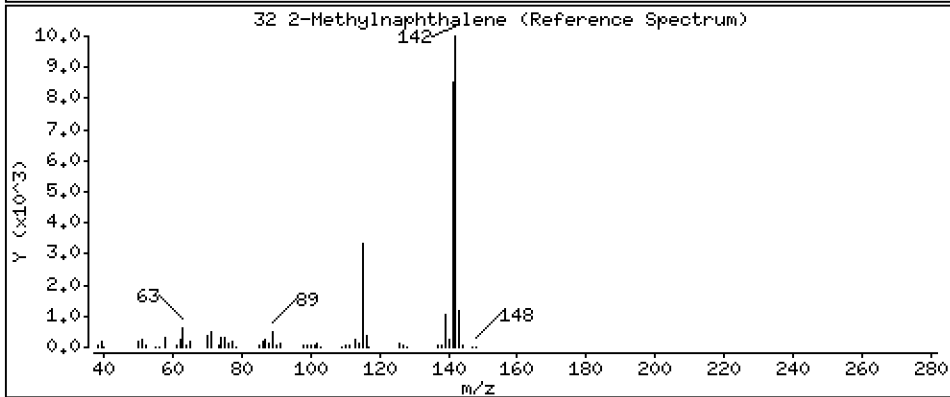
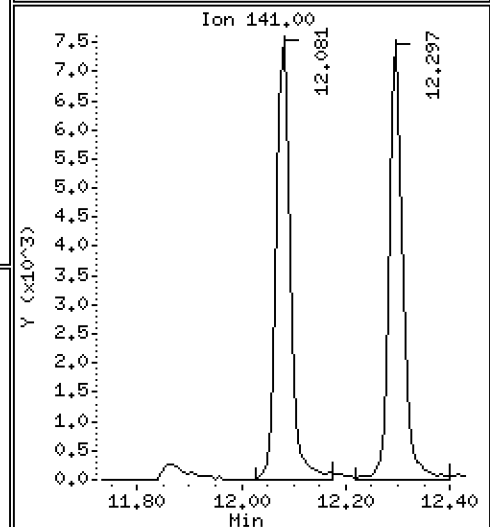
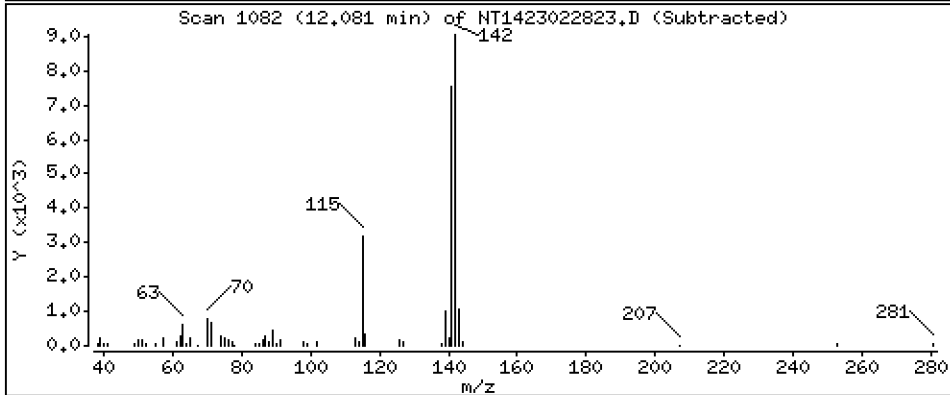
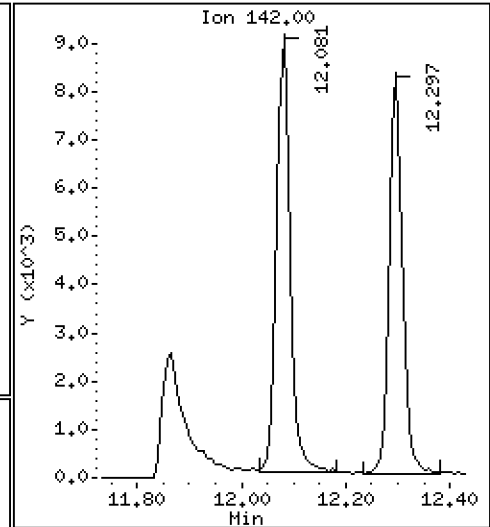
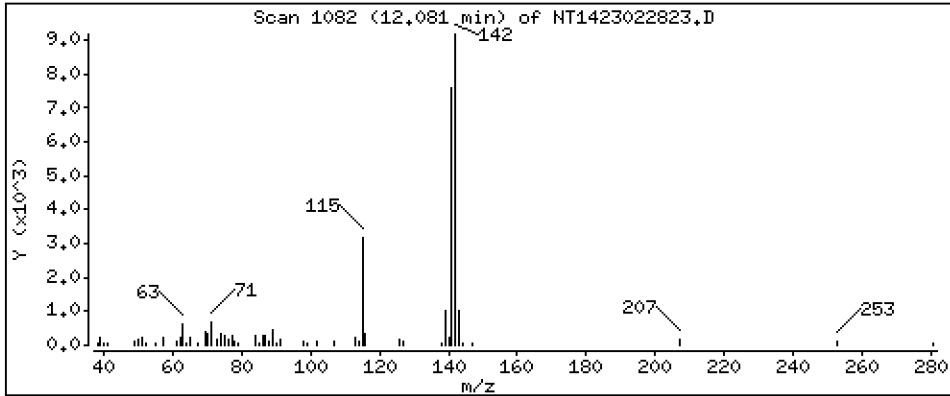
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 0,1941 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

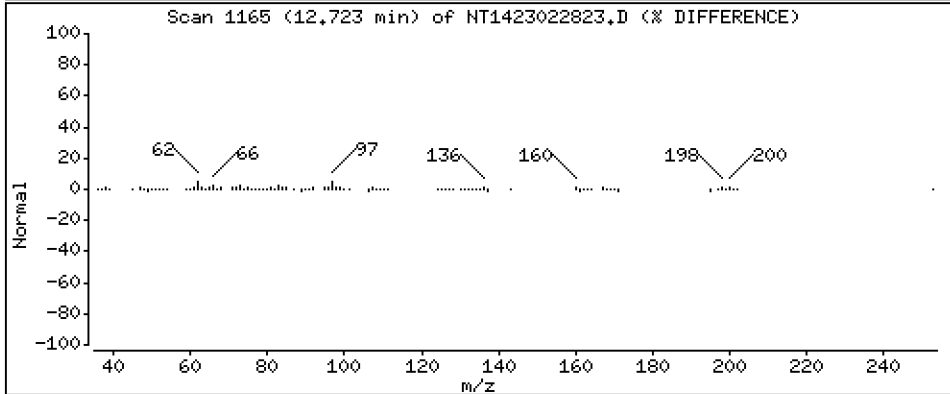
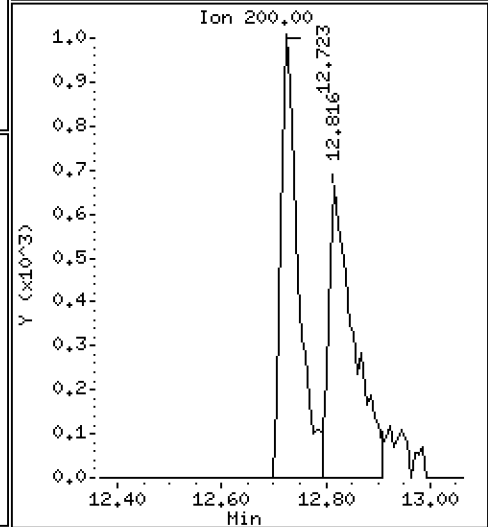
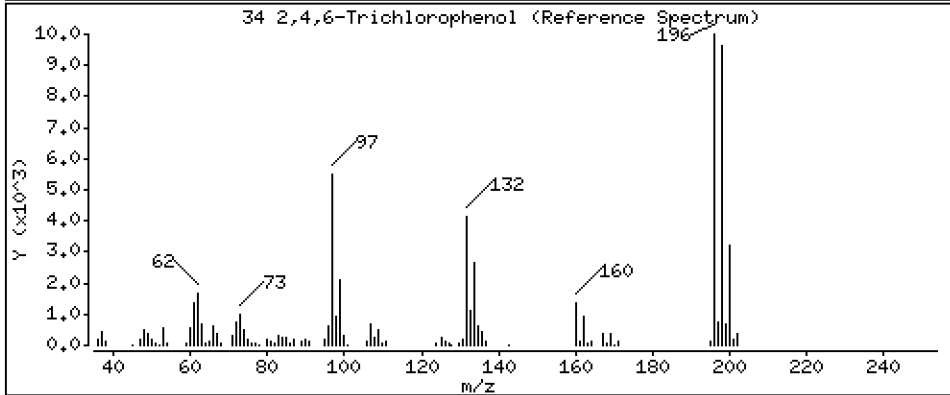
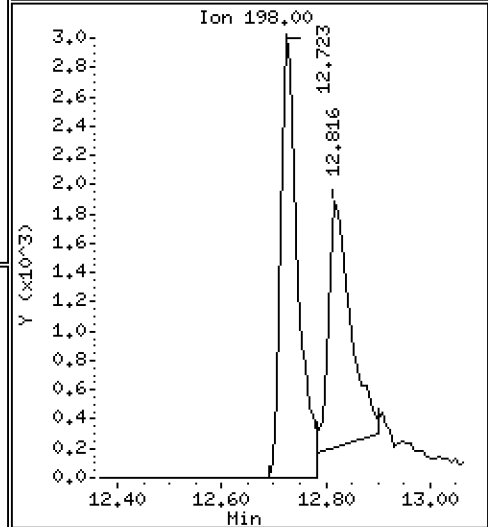
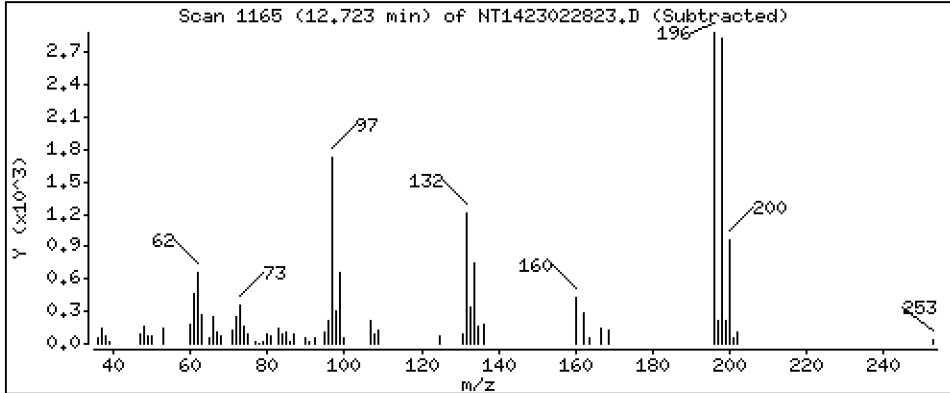
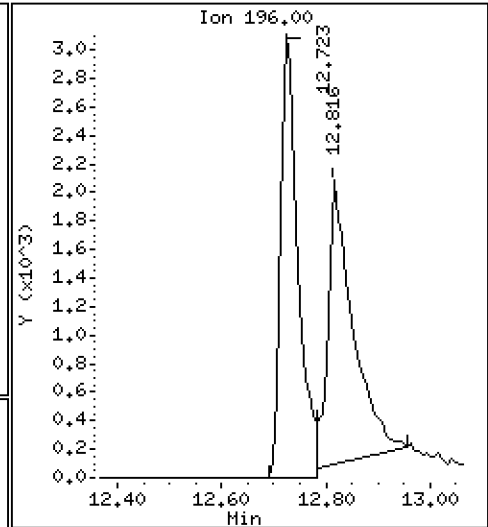
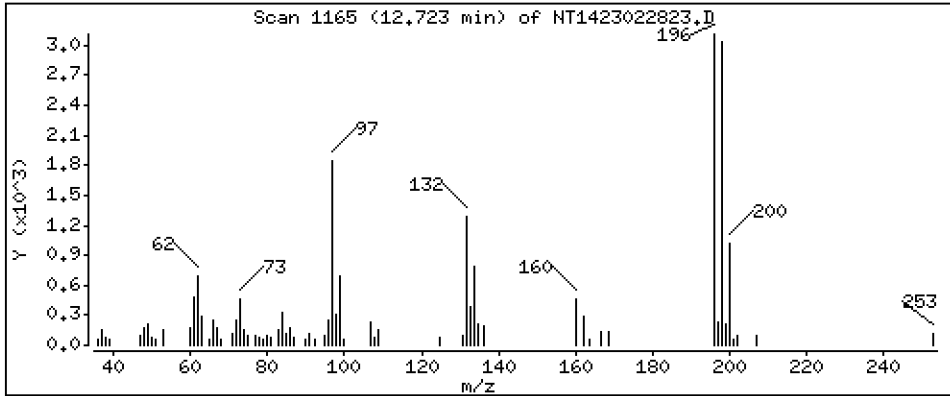
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

34 2,4,6-Trichlorophenol

Concentration: 0.3126 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

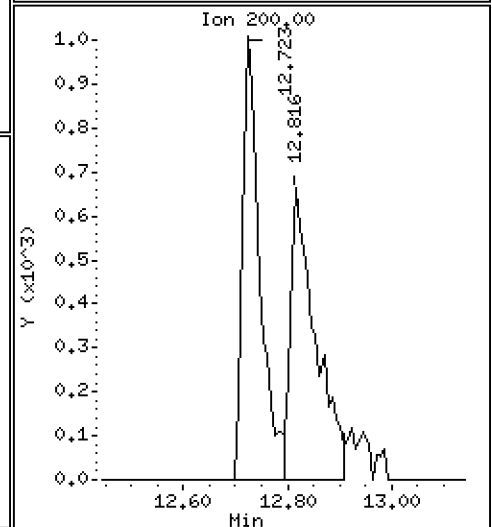
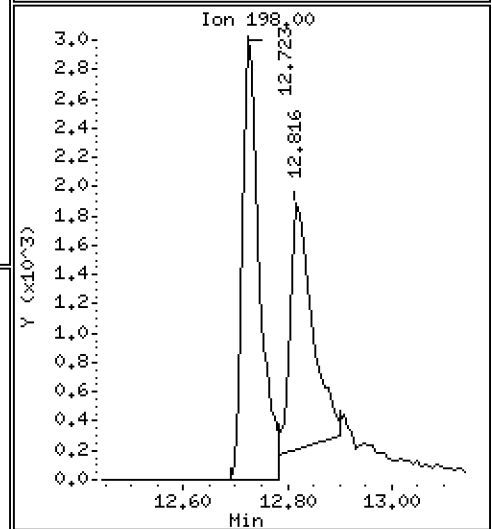
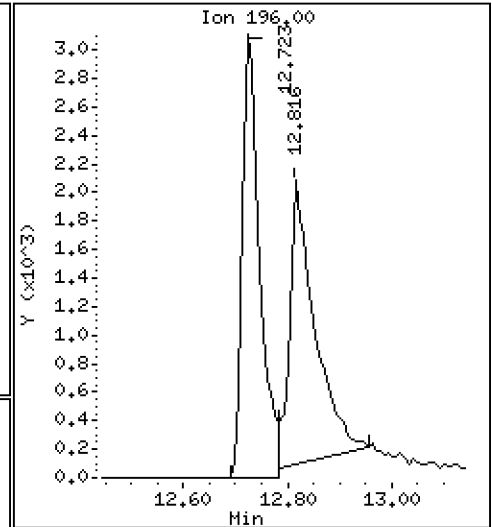
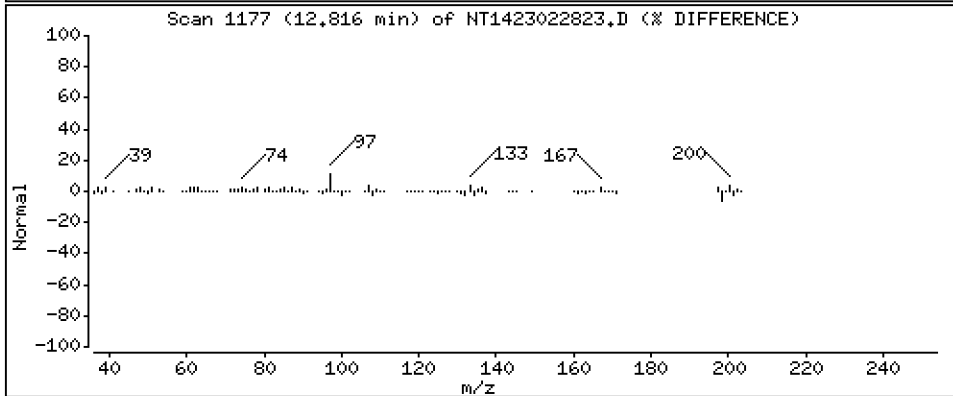
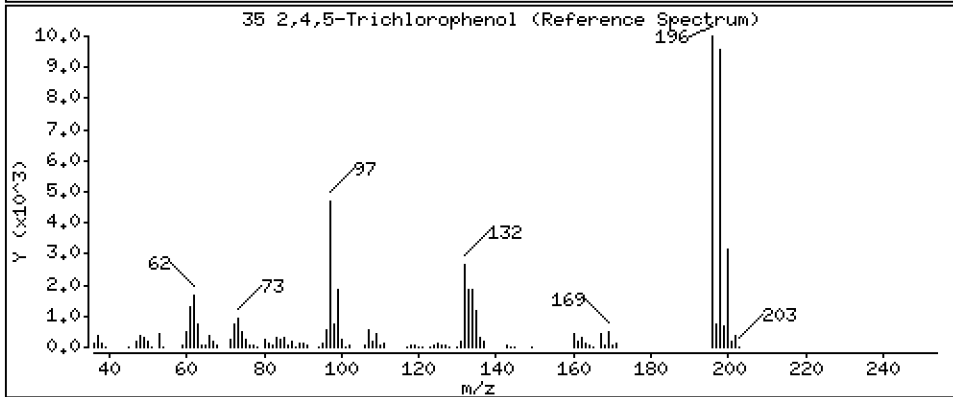
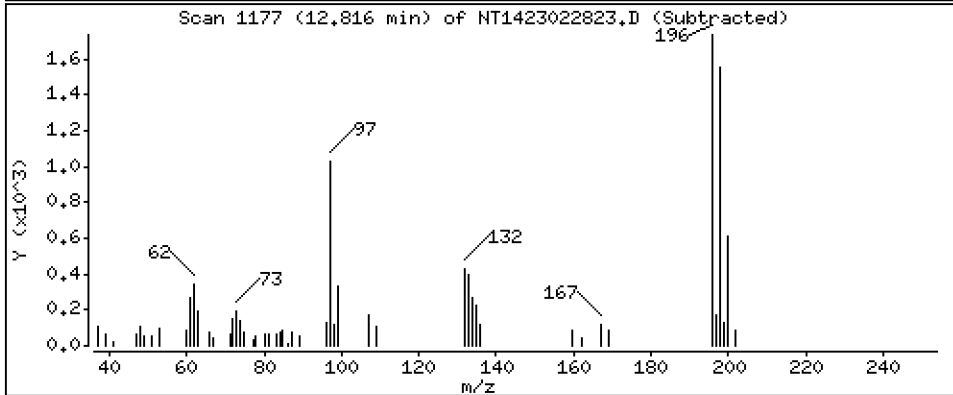
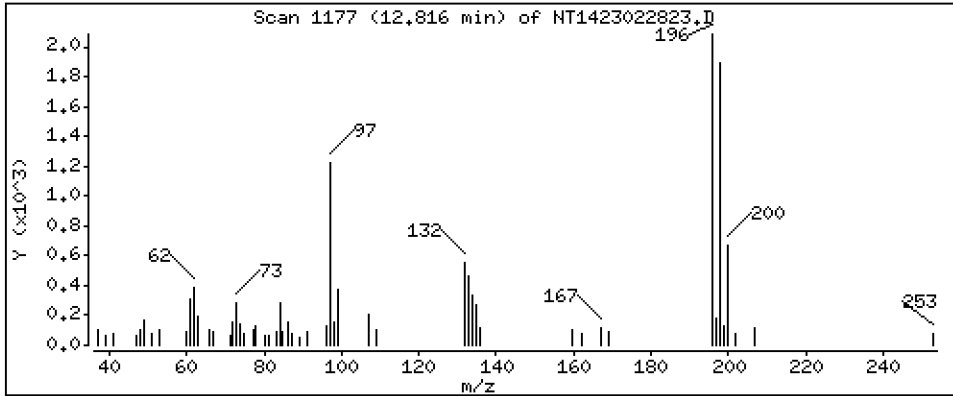
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

35 2,4,5-Trichlorophenol

Concentration: 0,2764 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

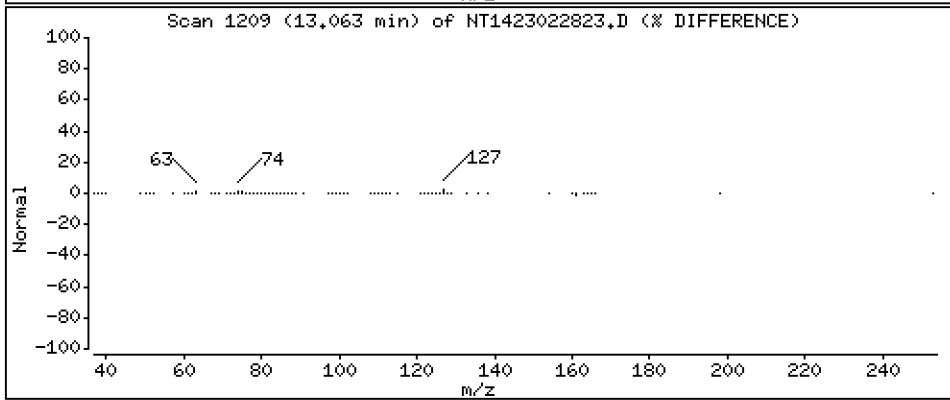
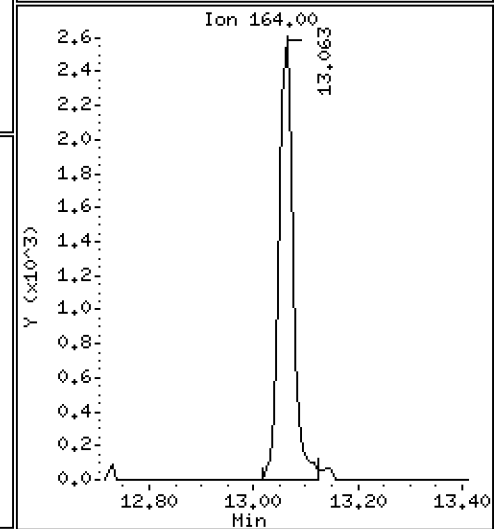
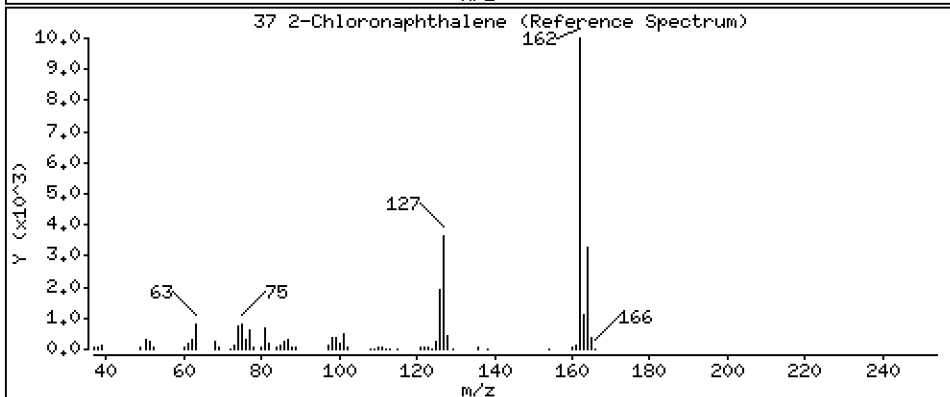
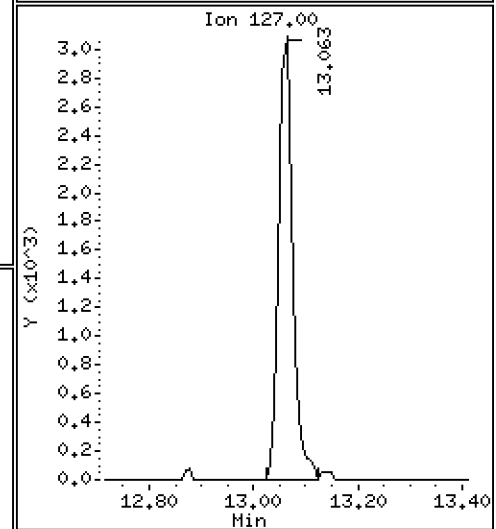
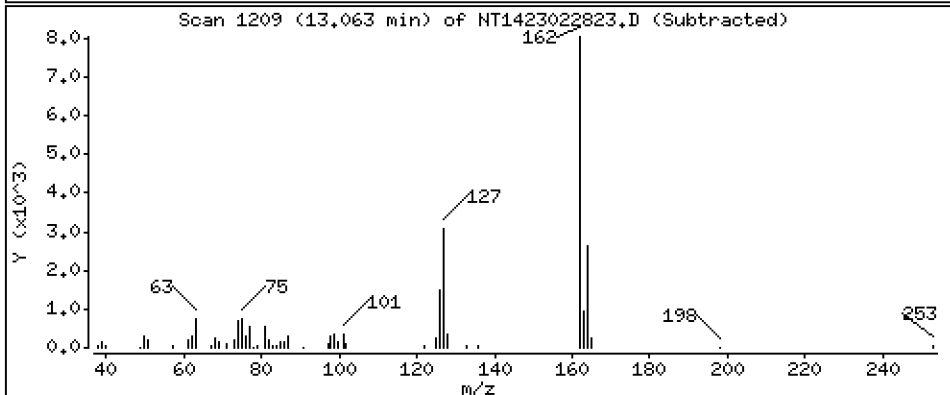
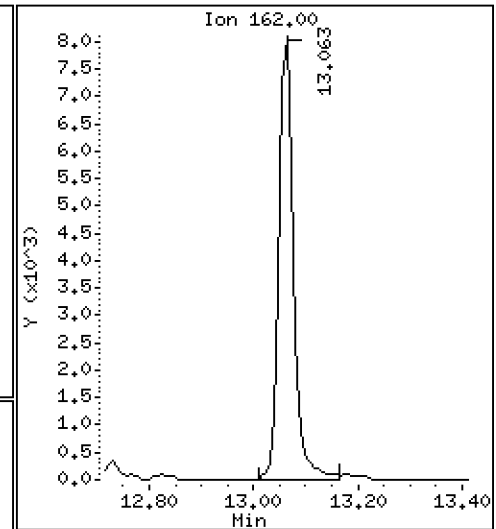
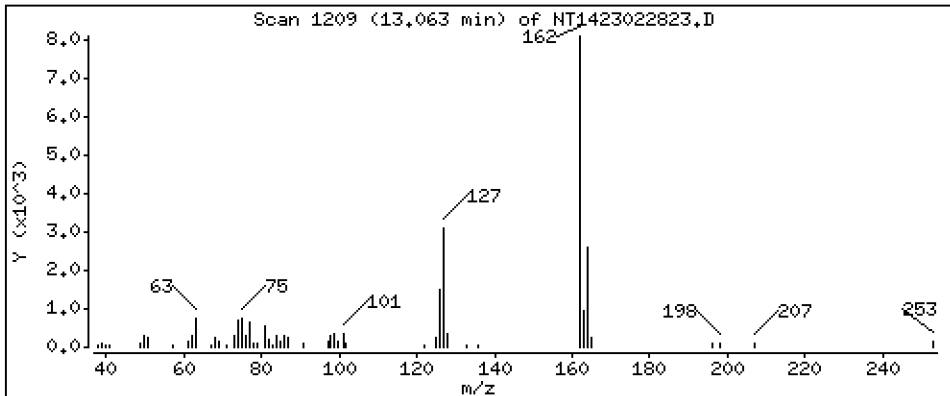
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

37 2-Chloronaphthalene

Concentration: 0,2077 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

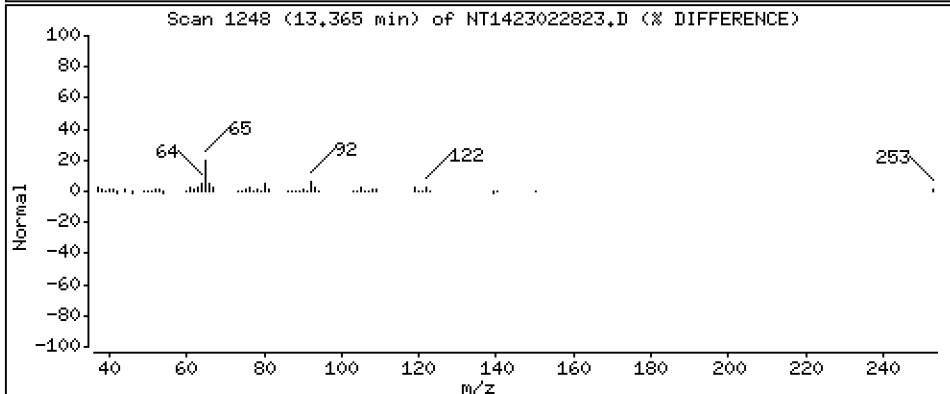
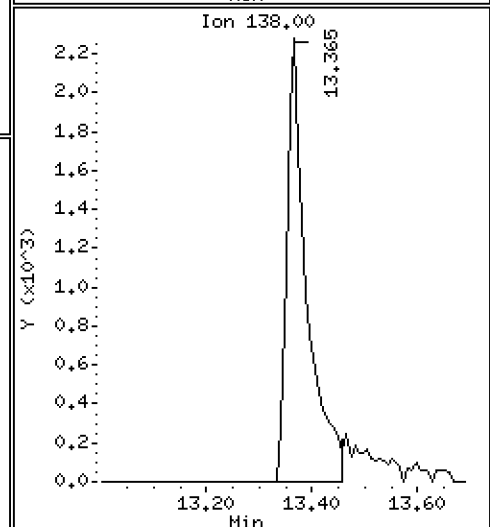
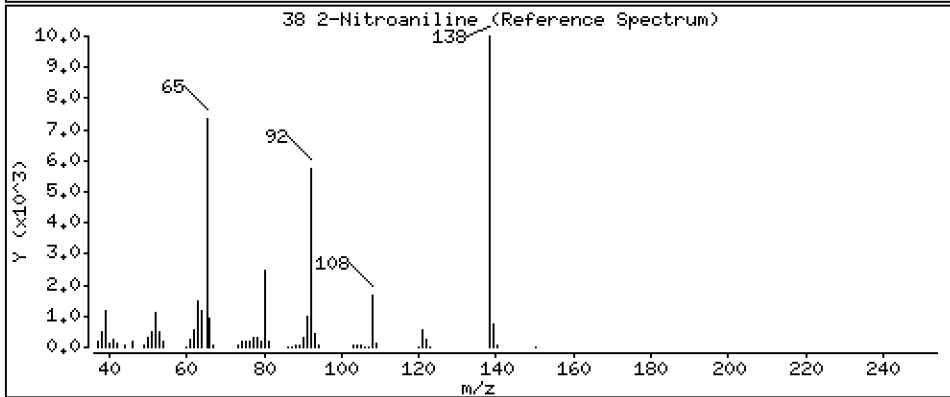
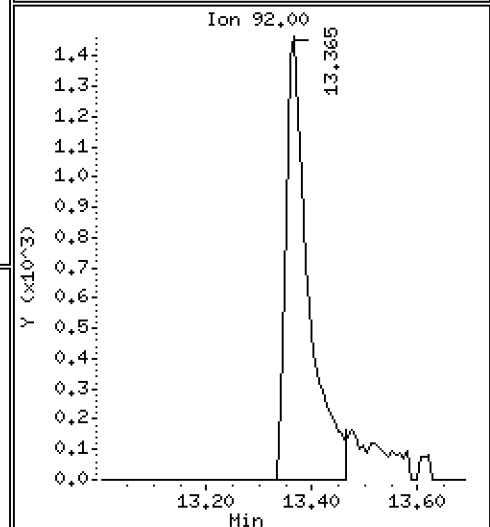
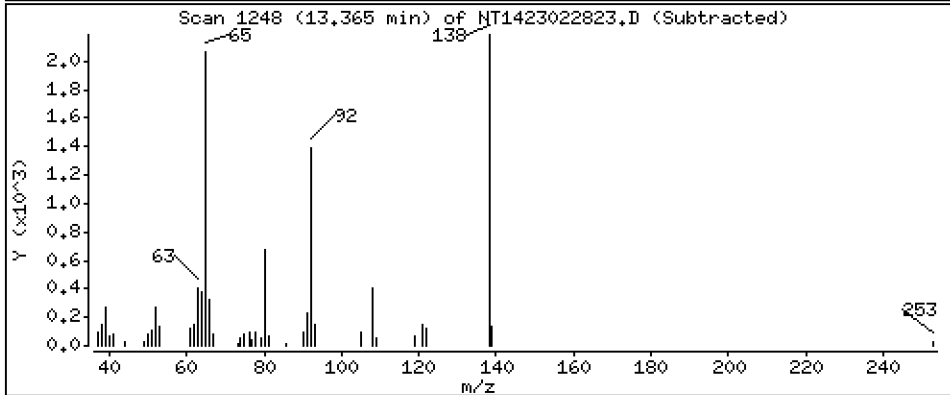
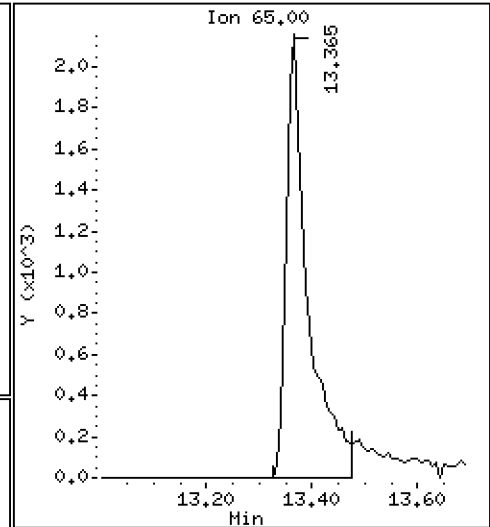
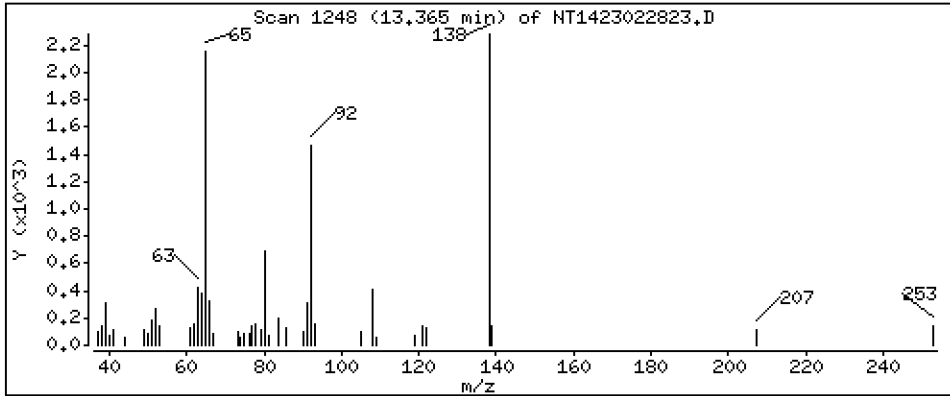
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

38 2-Nitroaniline

Concentration: 0,3328 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

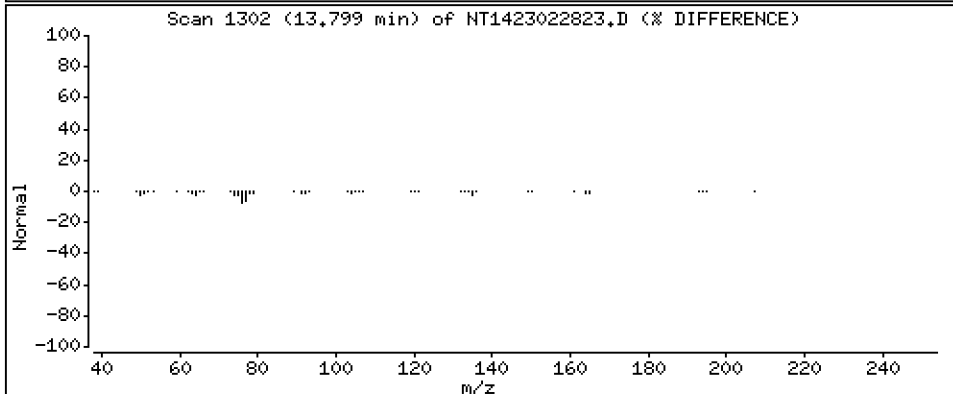
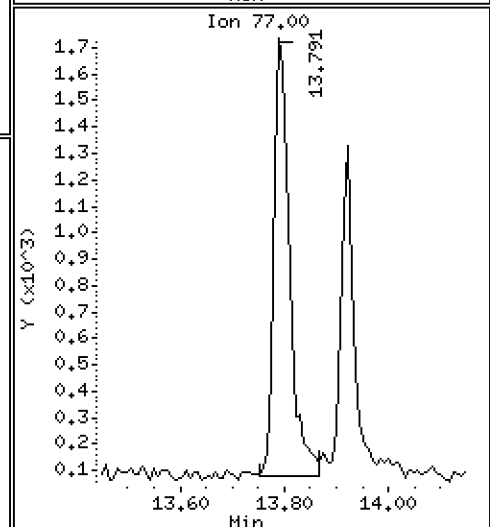
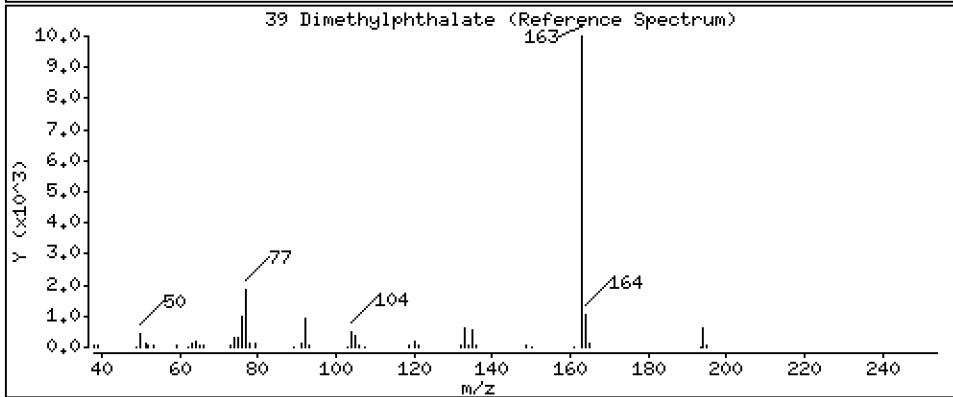
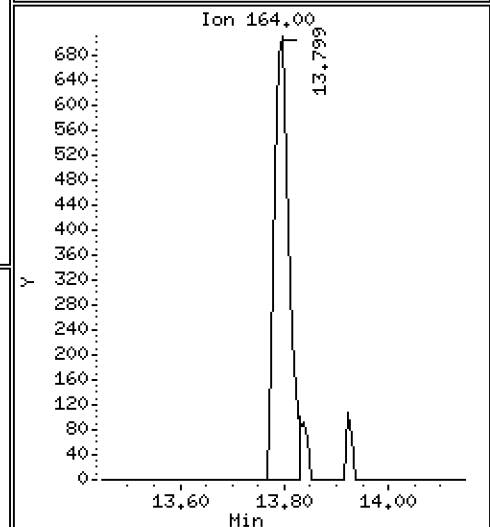
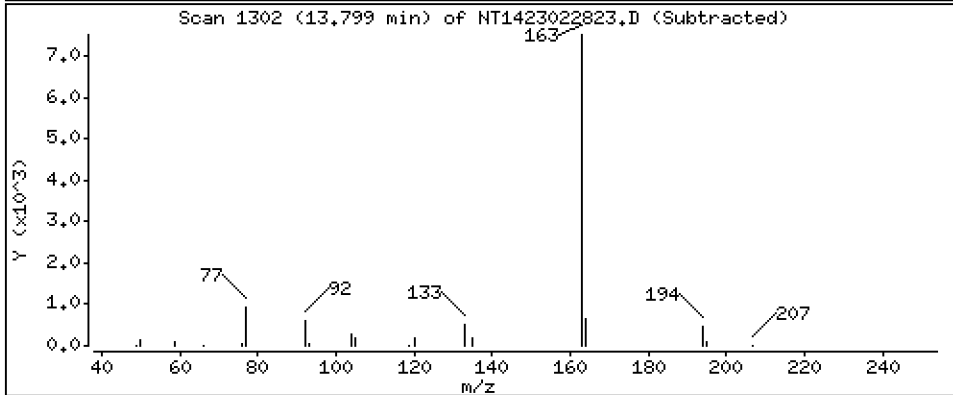
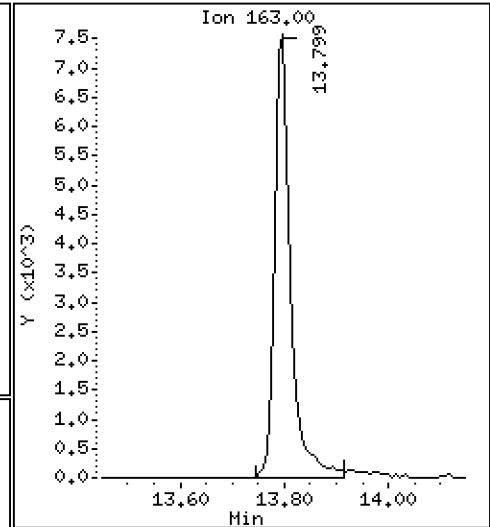
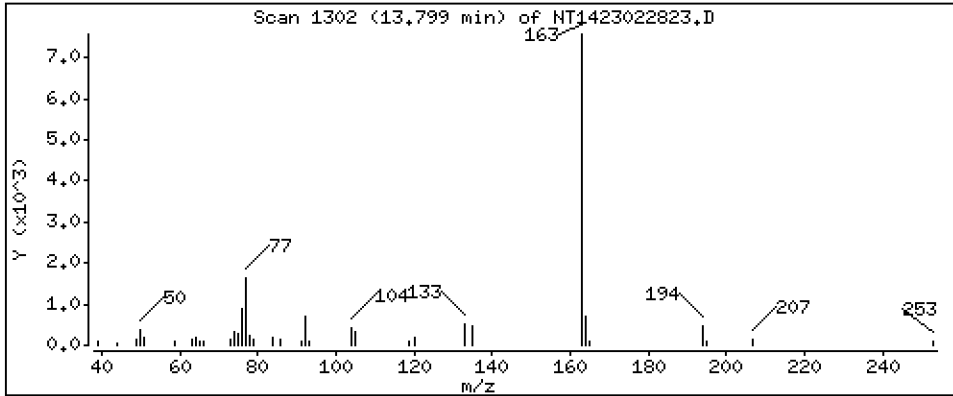
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 0,2127 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

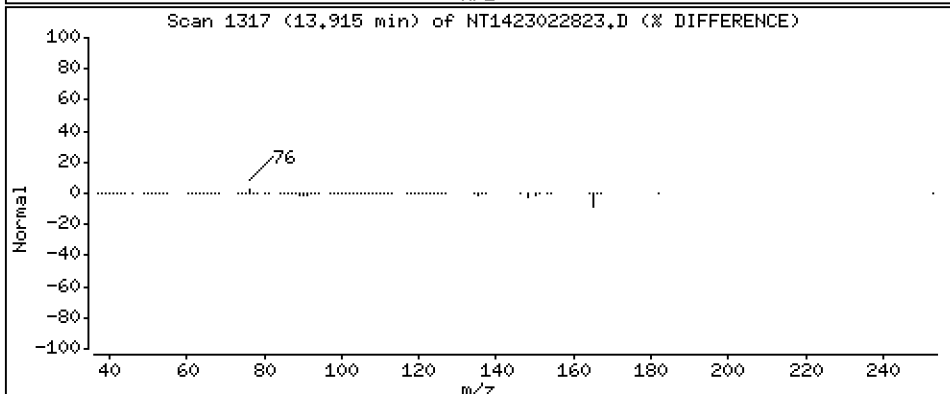
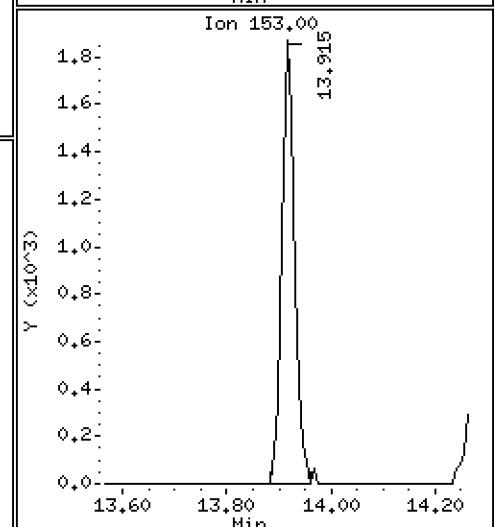
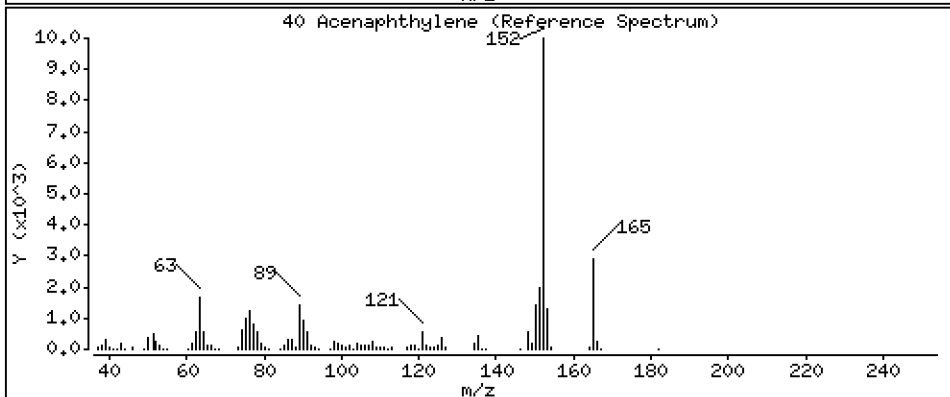
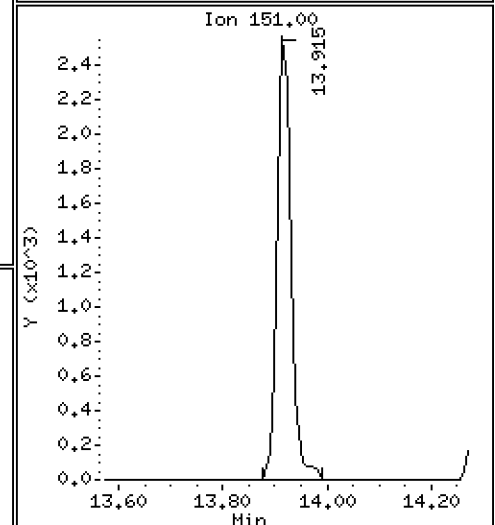
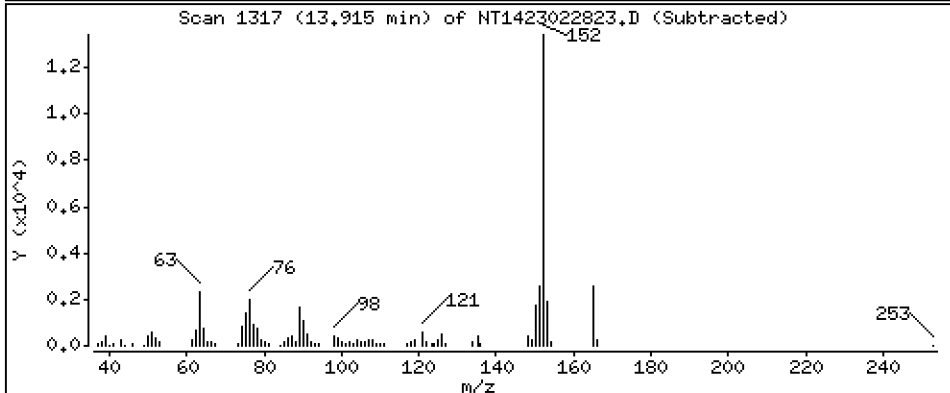
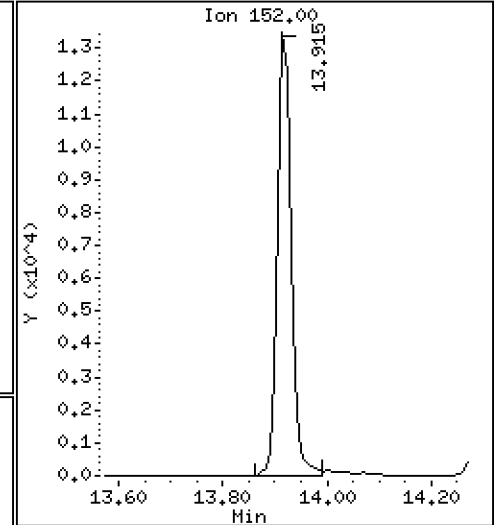
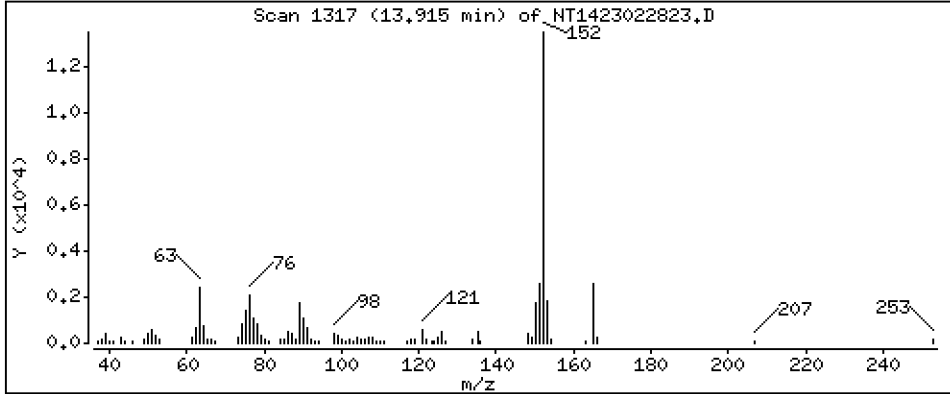
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 0,2211 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

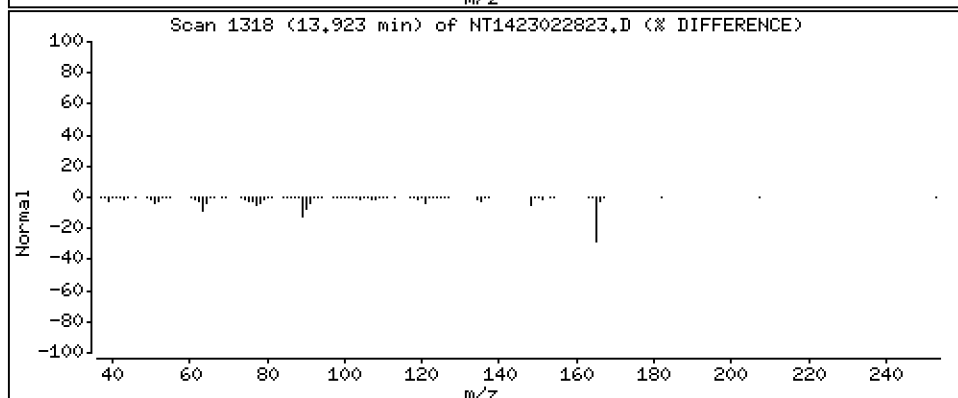
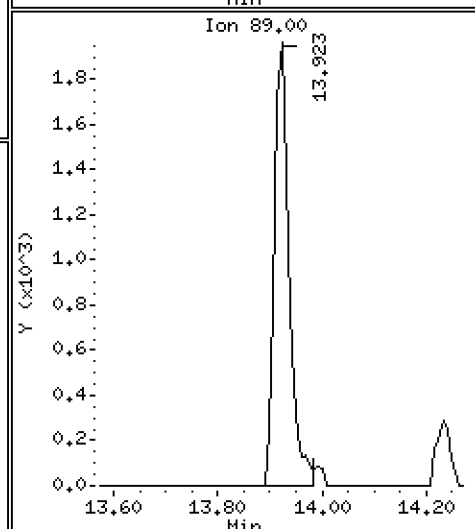
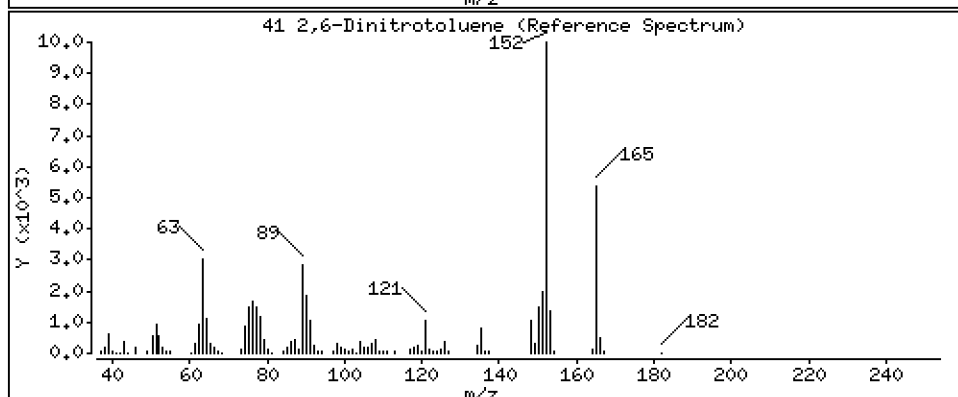
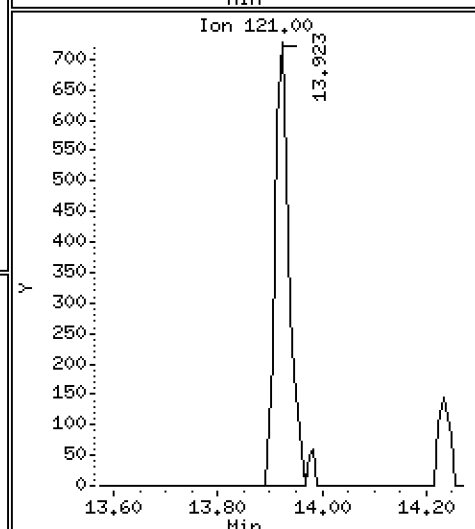
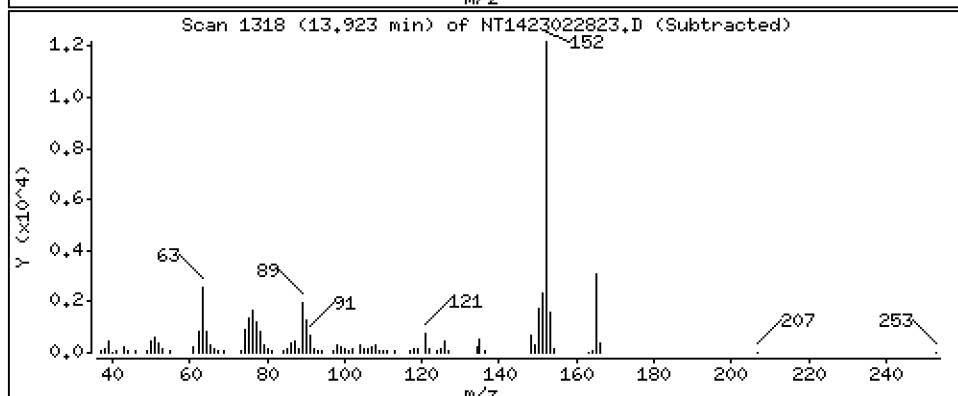
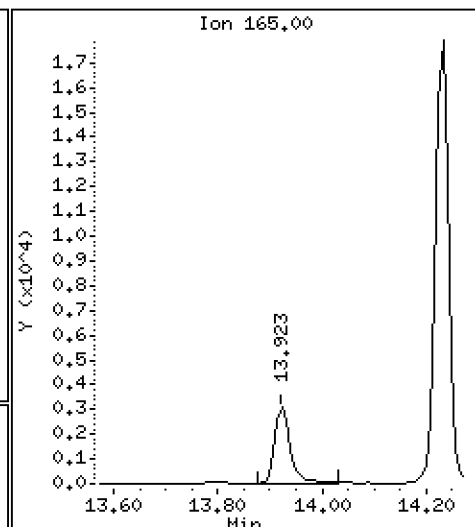
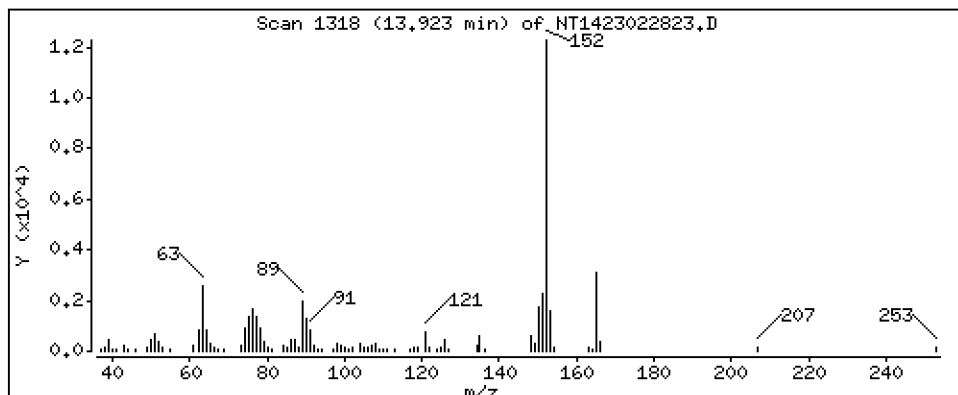
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

41 2,6-Dinitrotoluene

Concentration: 0,3722 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

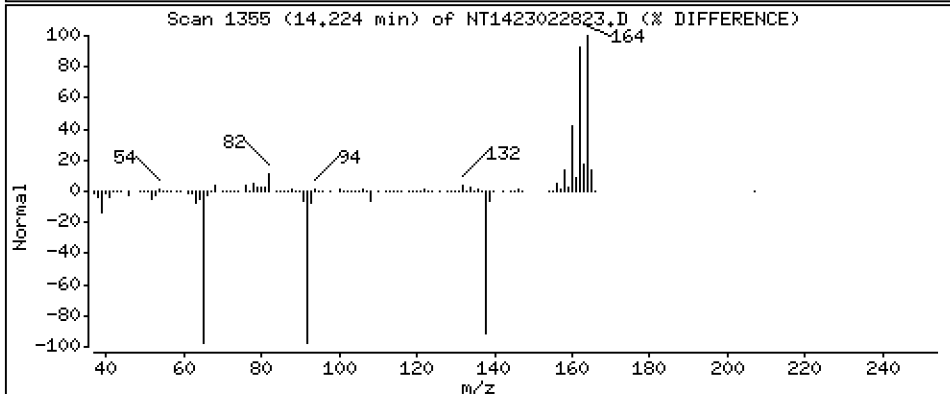
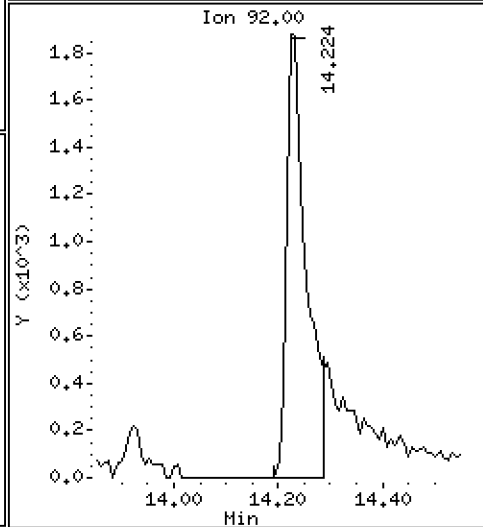
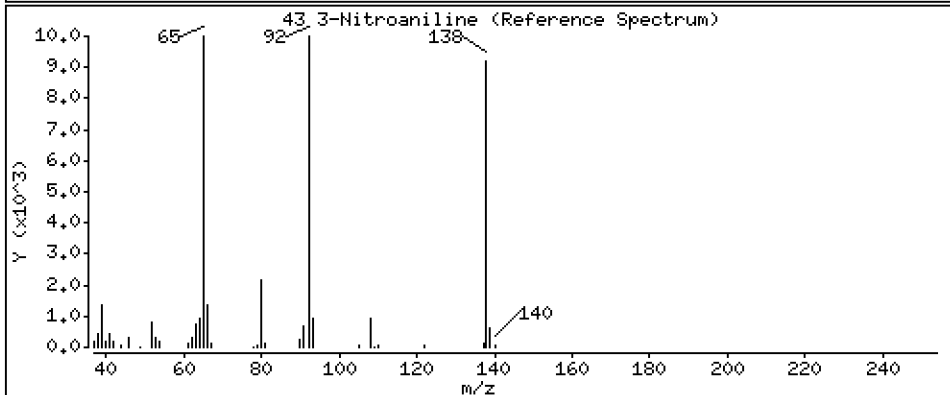
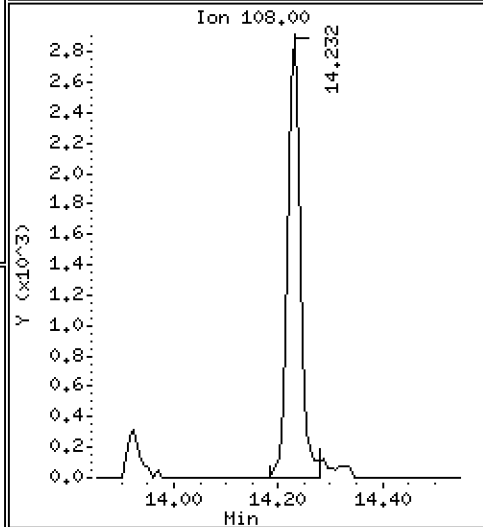
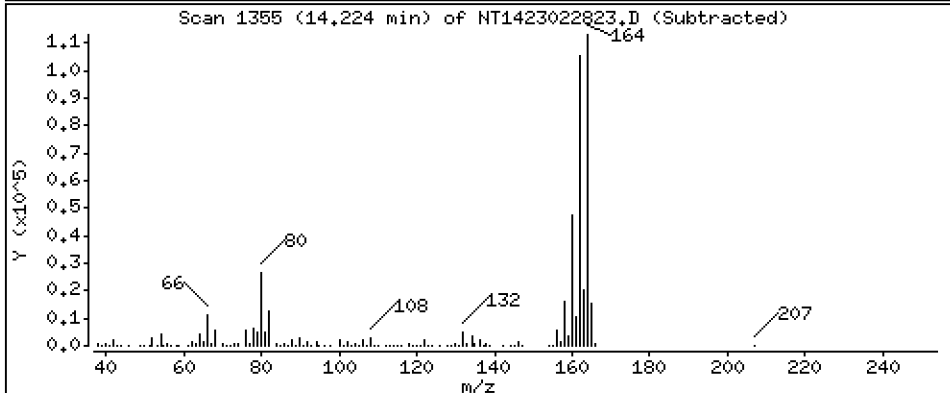
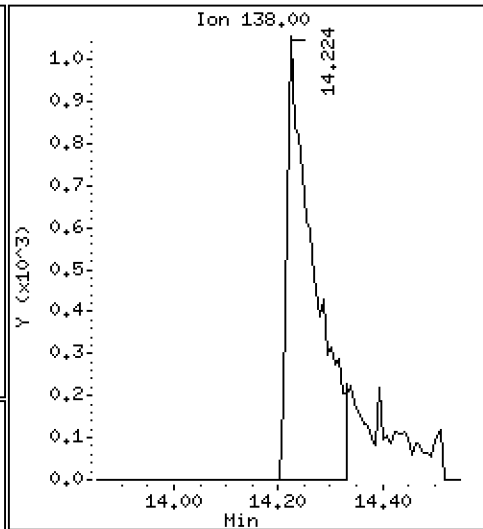
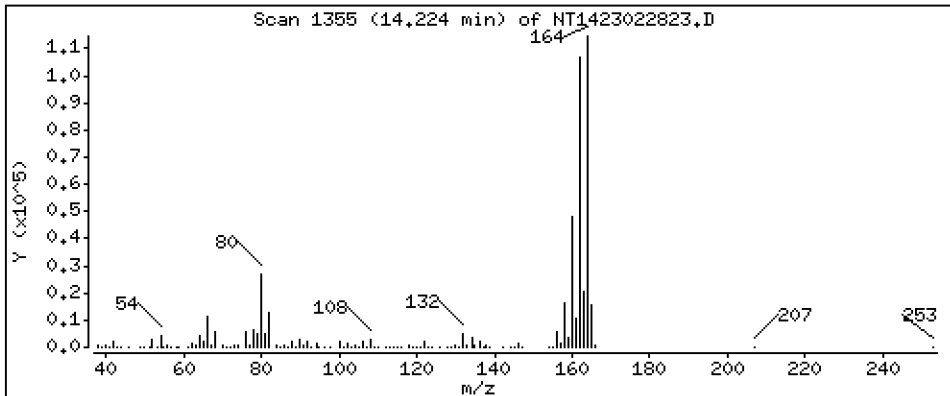
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

43 3-Nitroaniline

Concentration: 0,2209 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

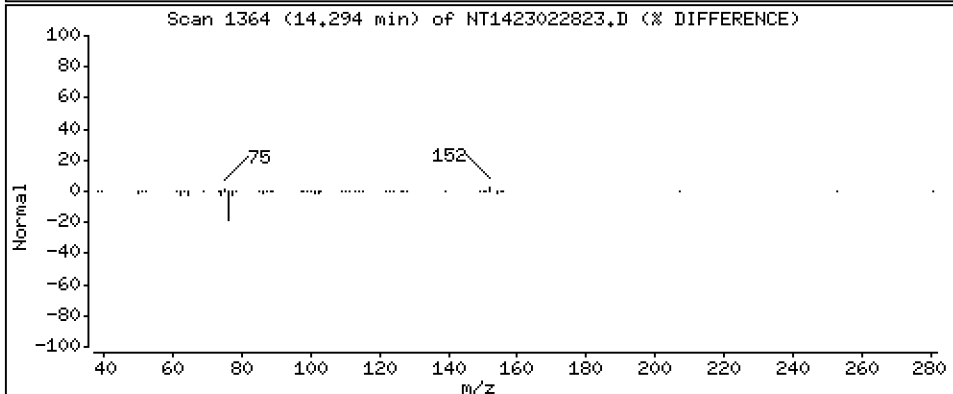
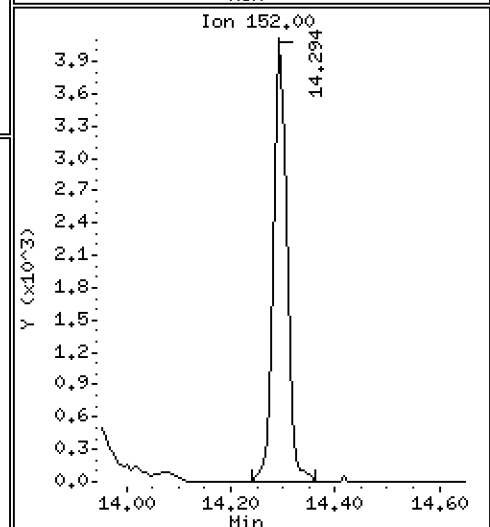
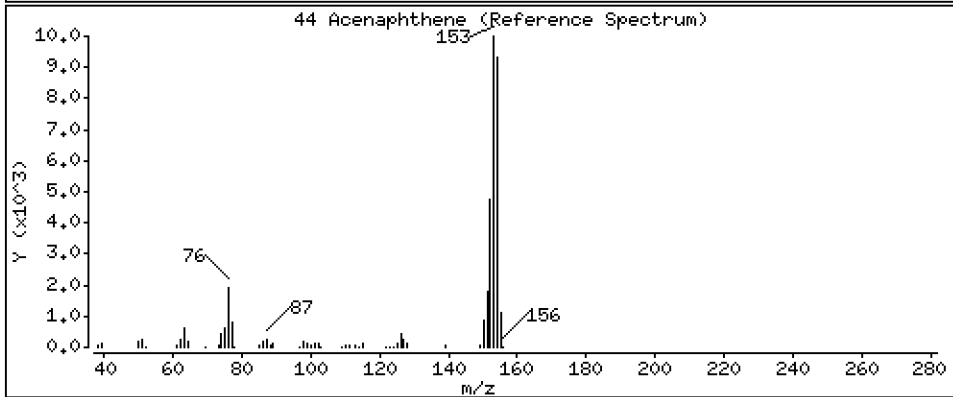
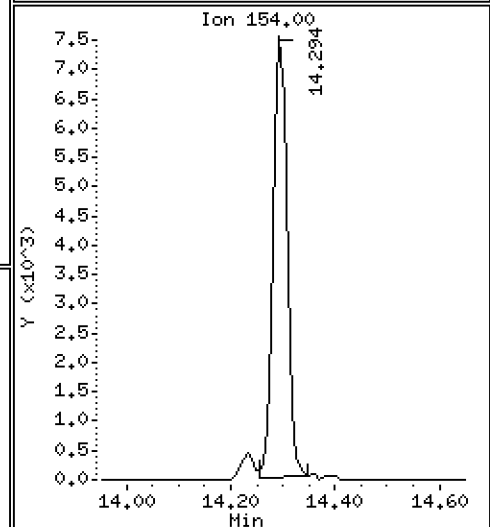
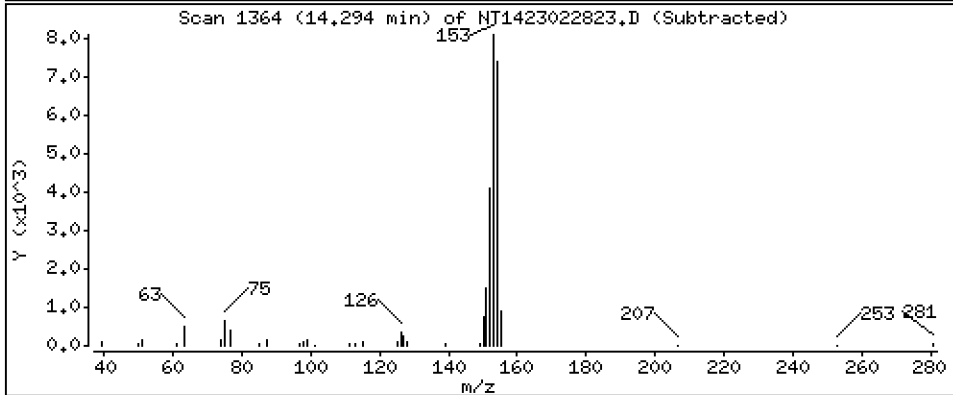
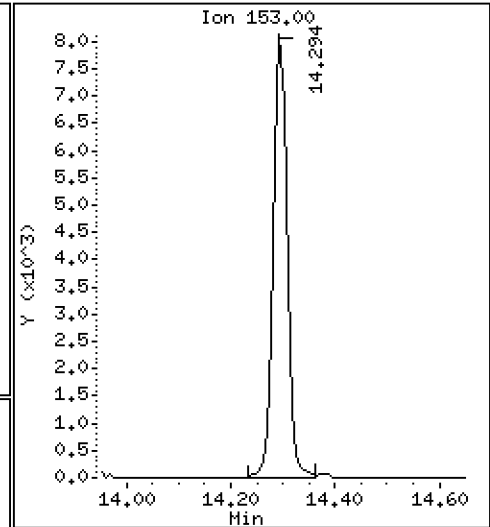
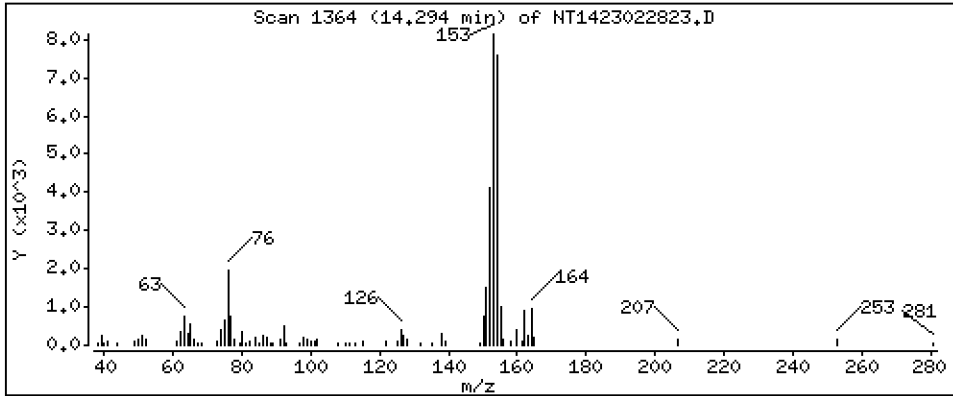
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 0,2101 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

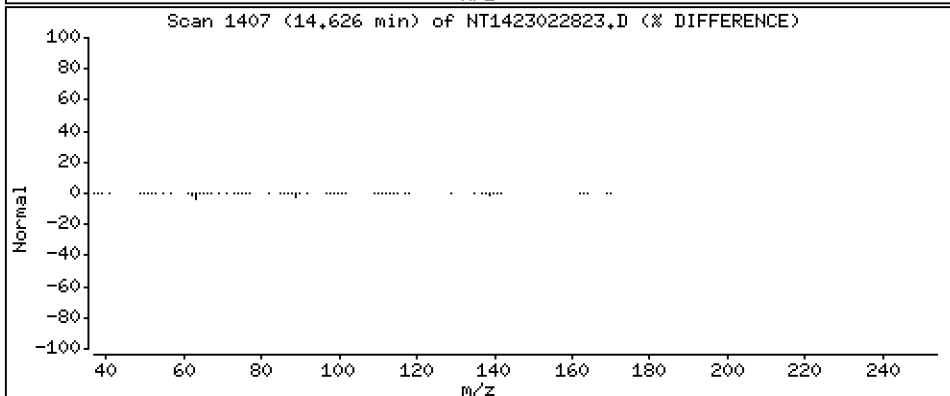
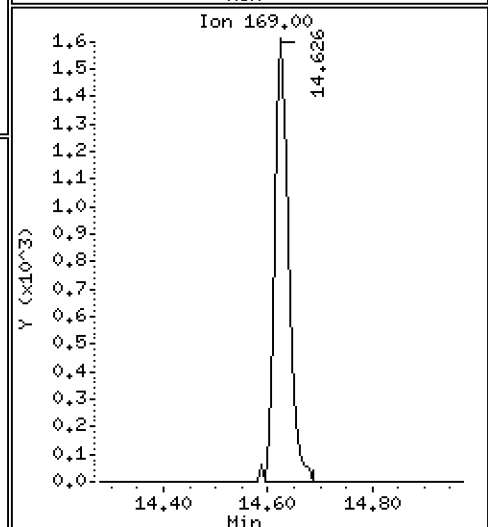
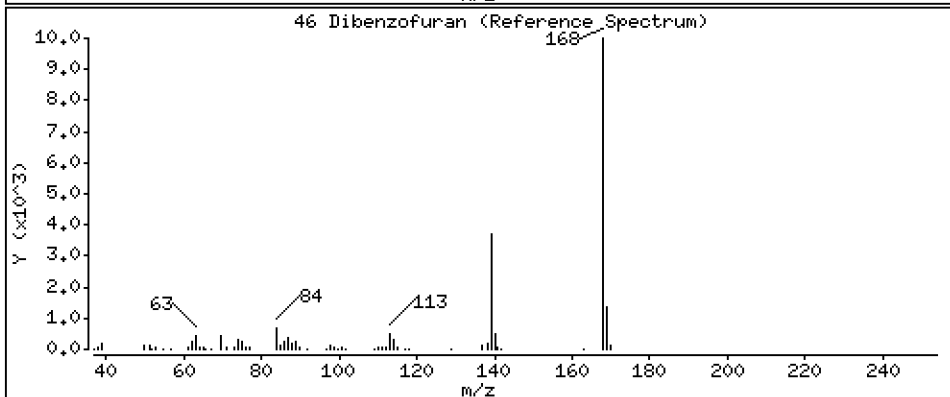
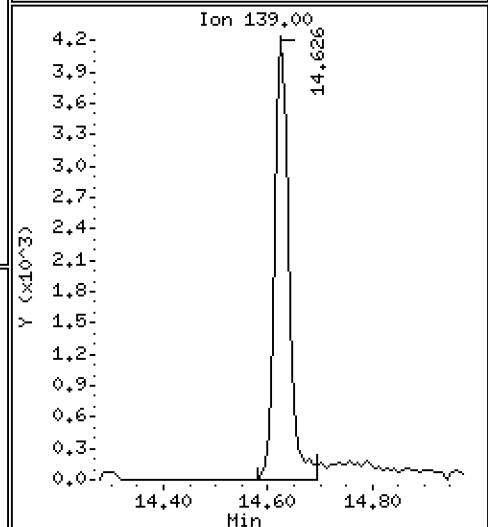
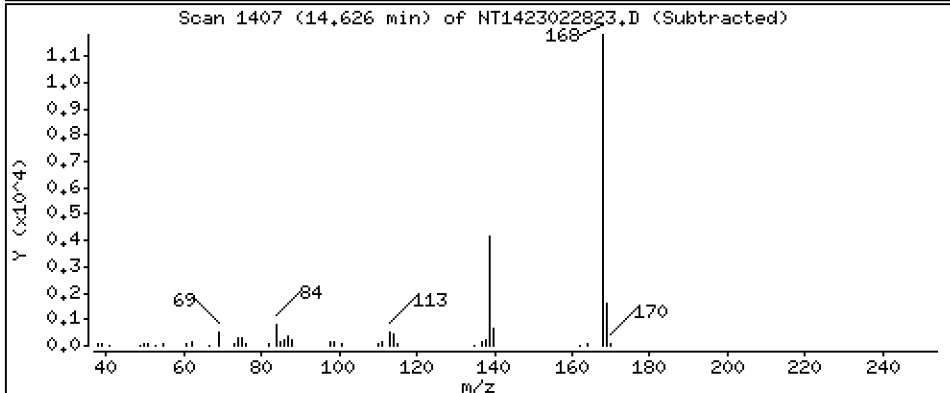
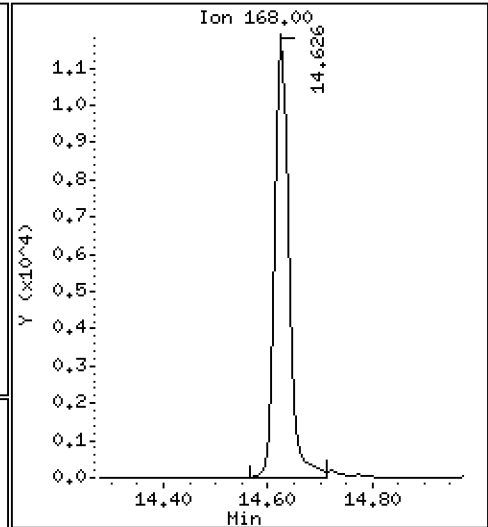
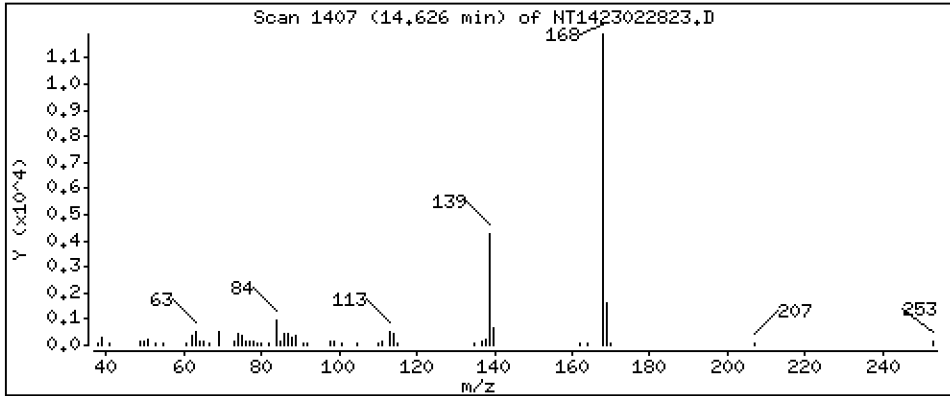
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 0,1984 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

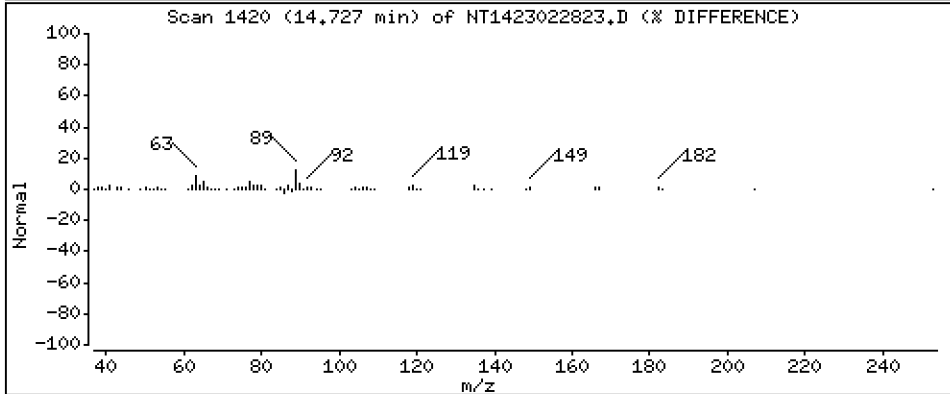
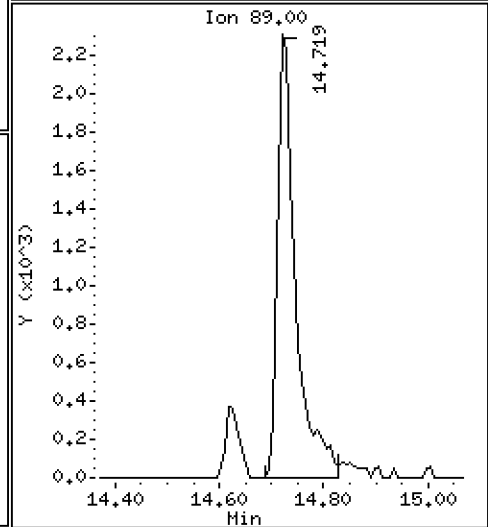
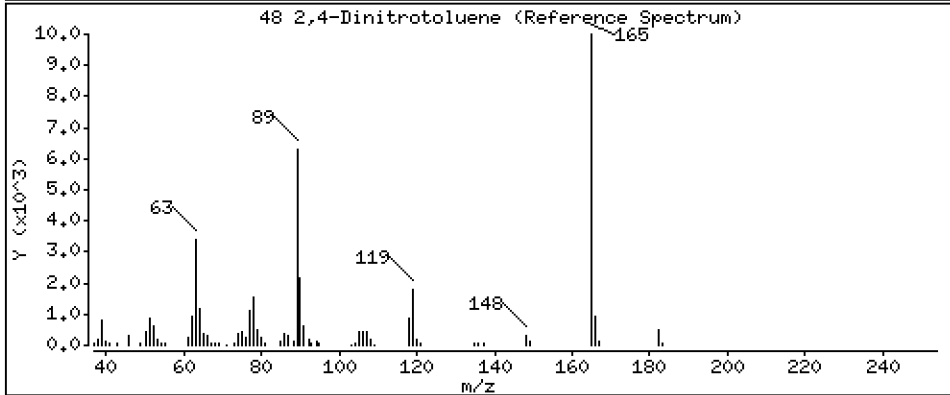
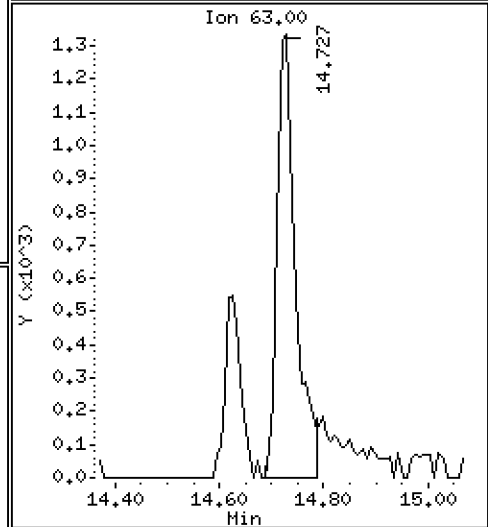
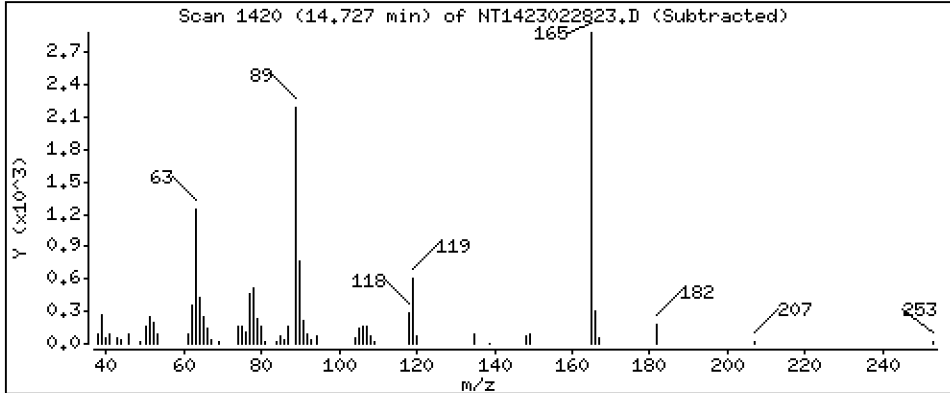
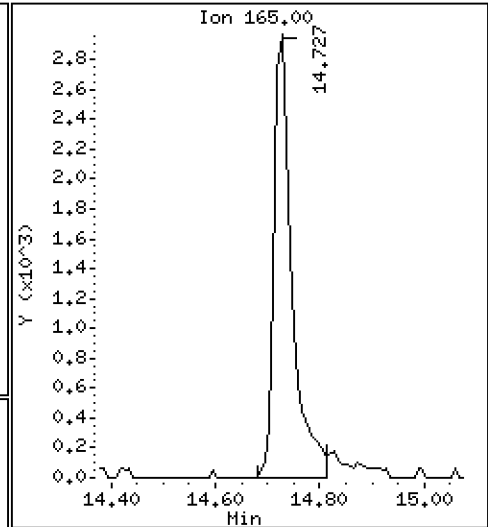
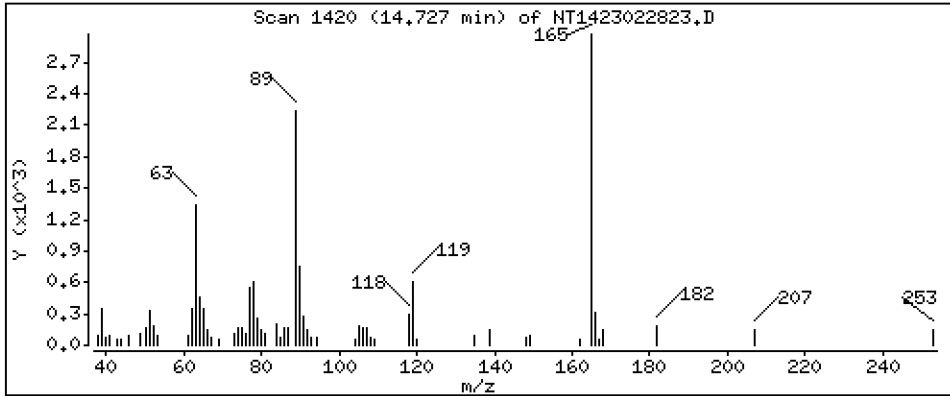
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

48 2,4-Dinitrotoluene

Concentration: 0.2795 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

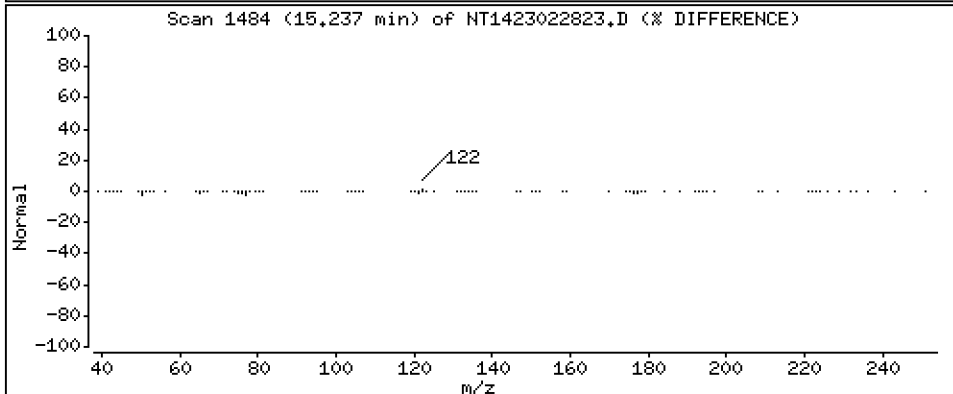
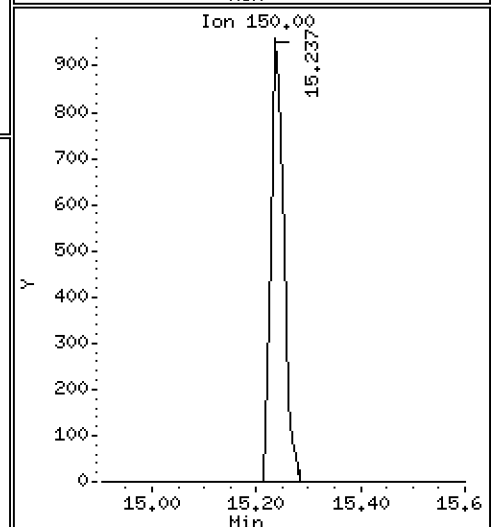
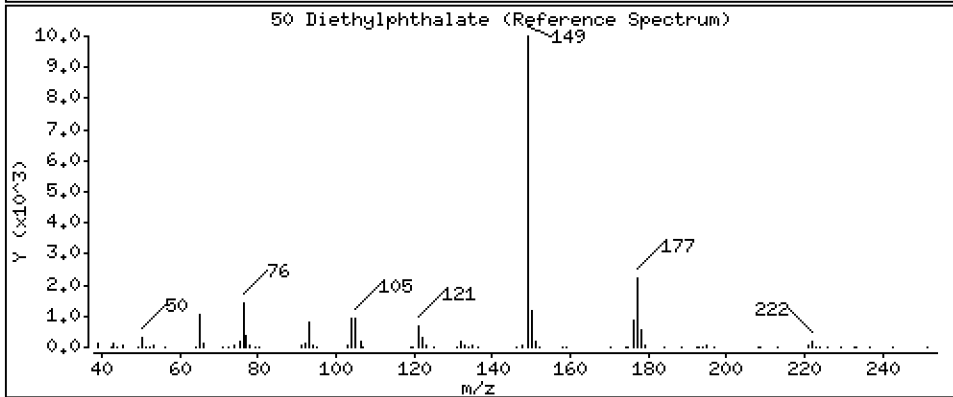
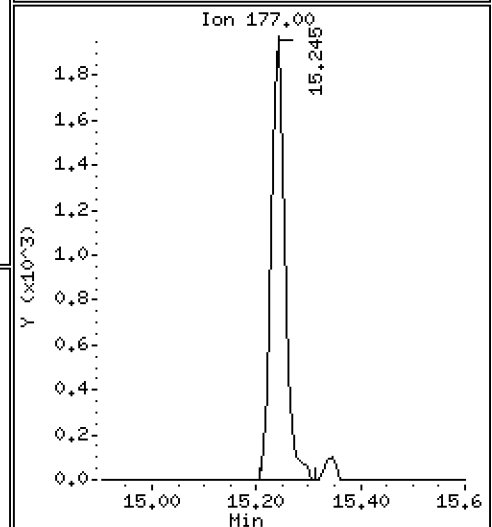
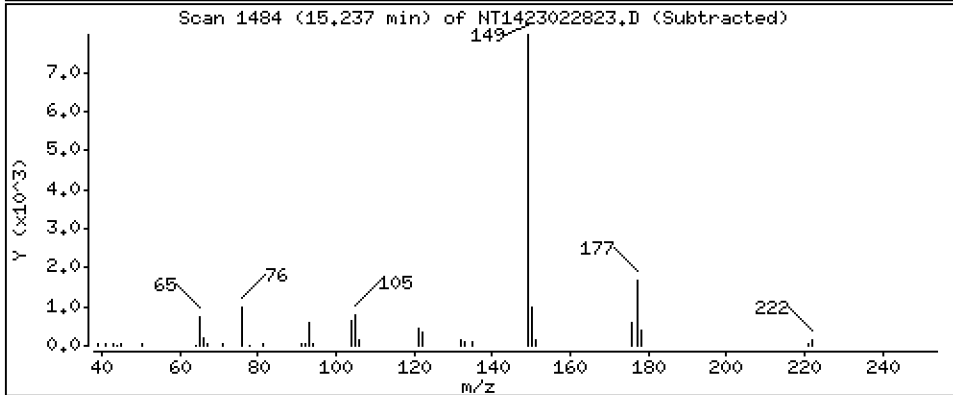
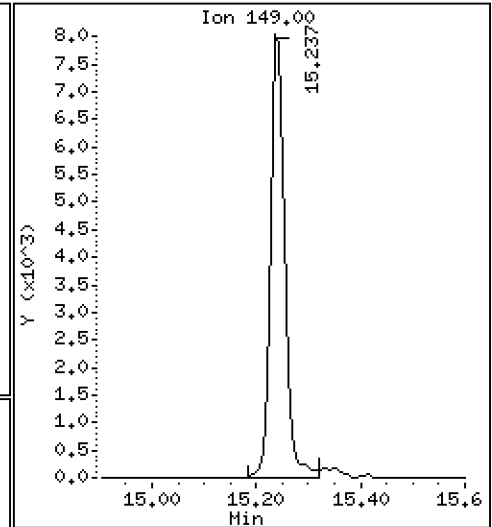
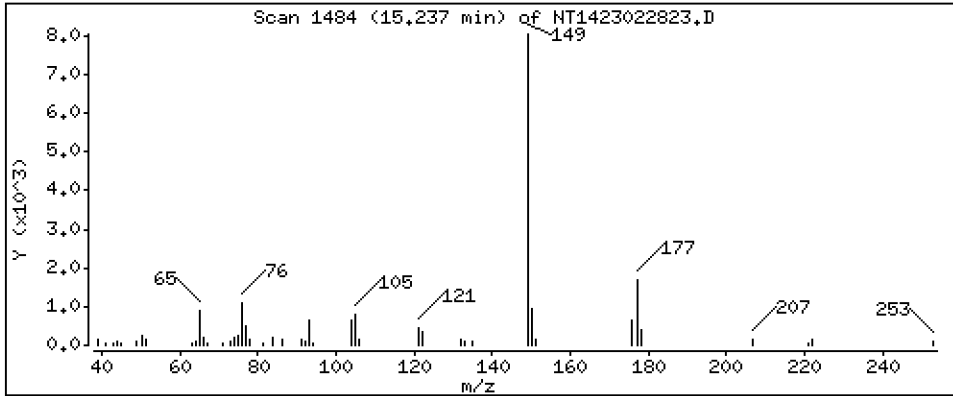
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 0,2149 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

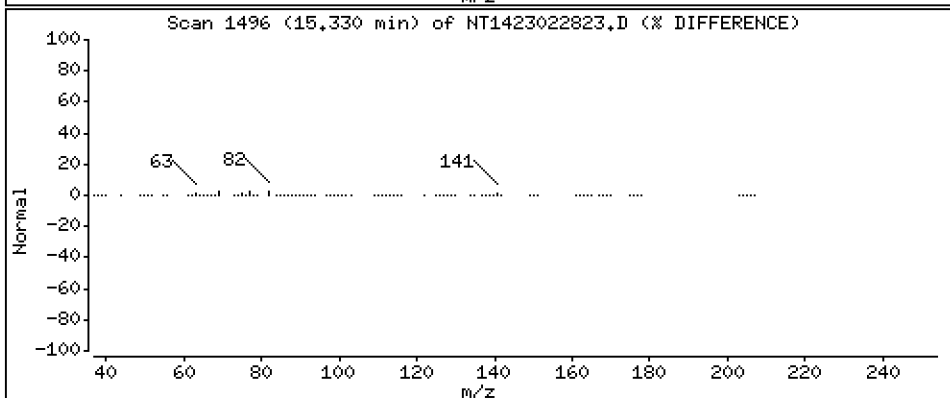
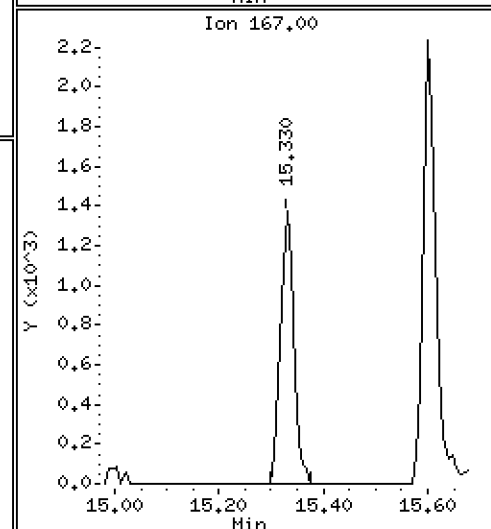
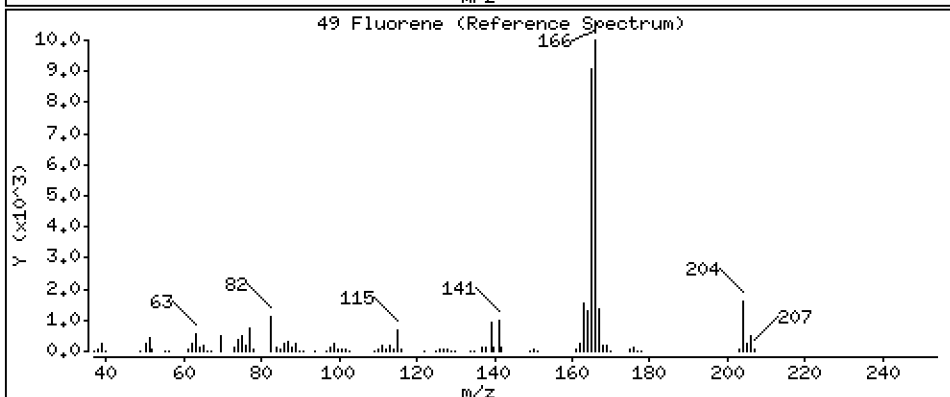
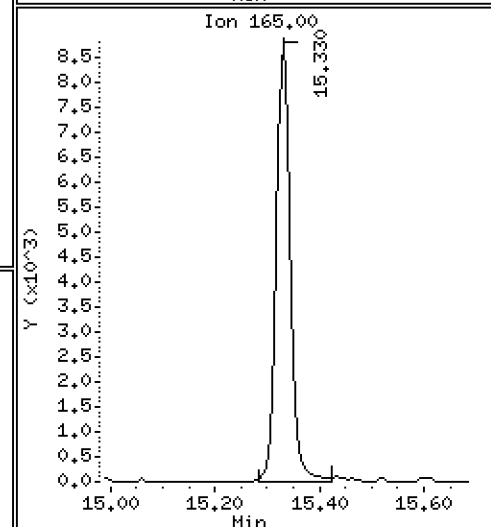
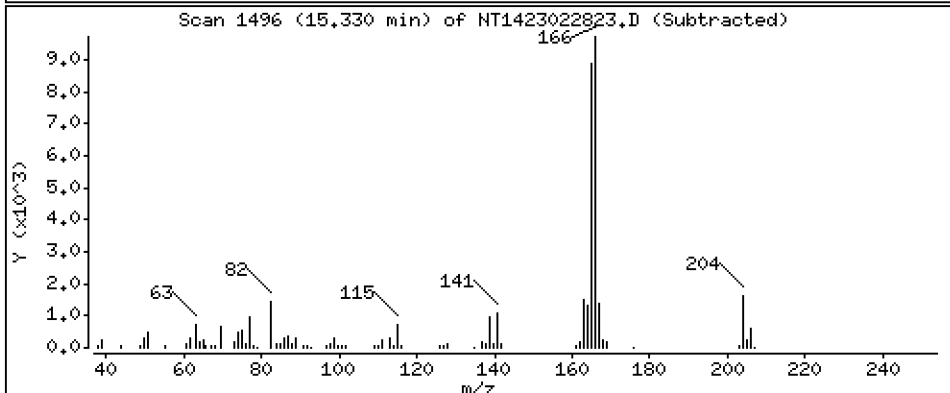
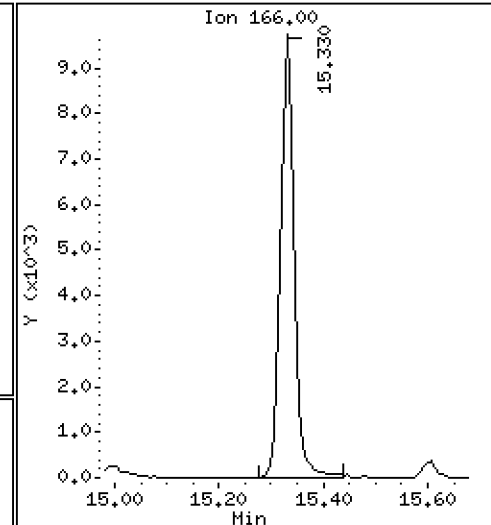
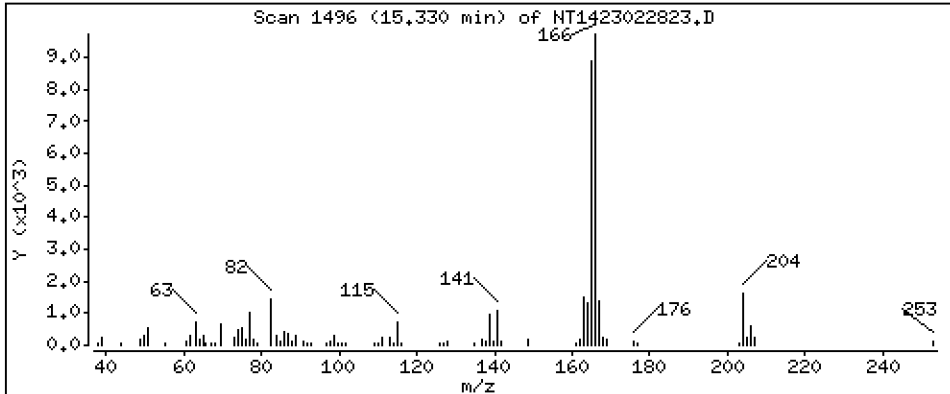
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 0,2100 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

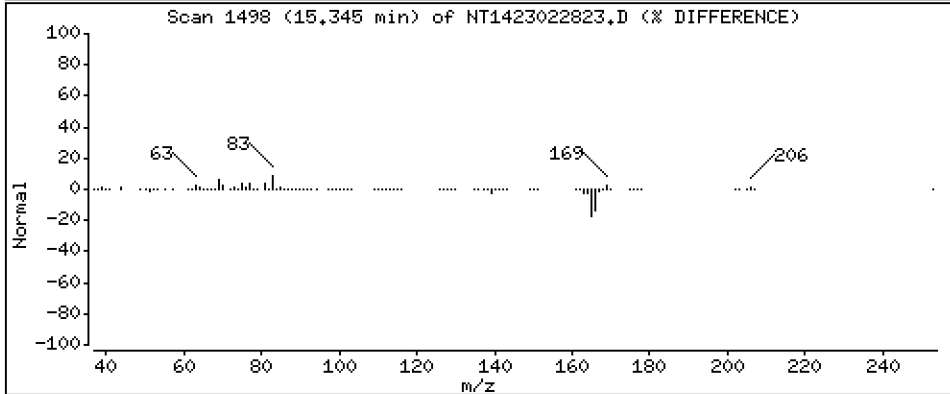
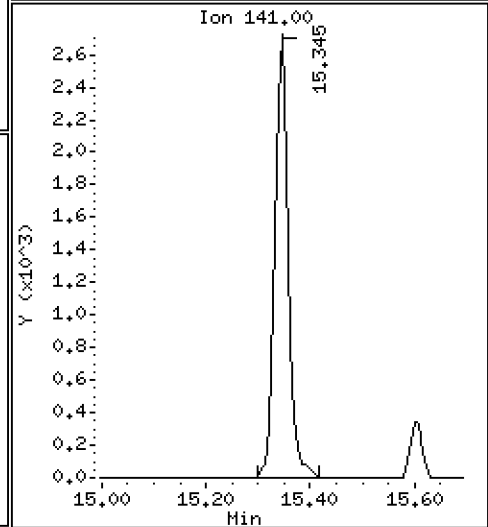
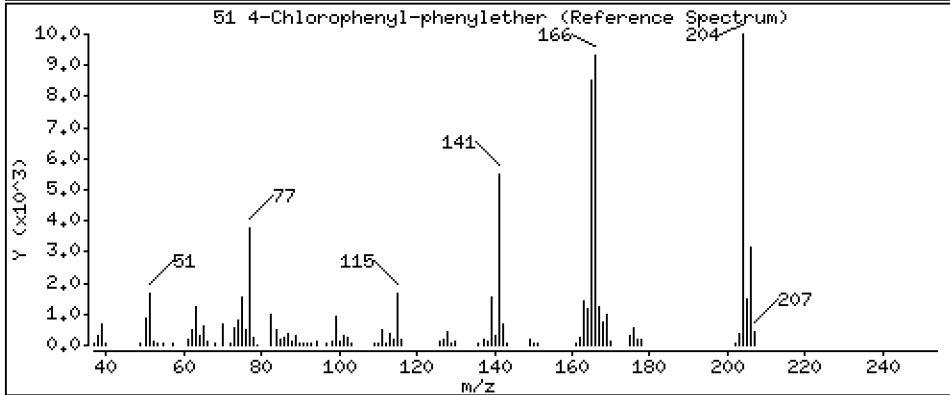
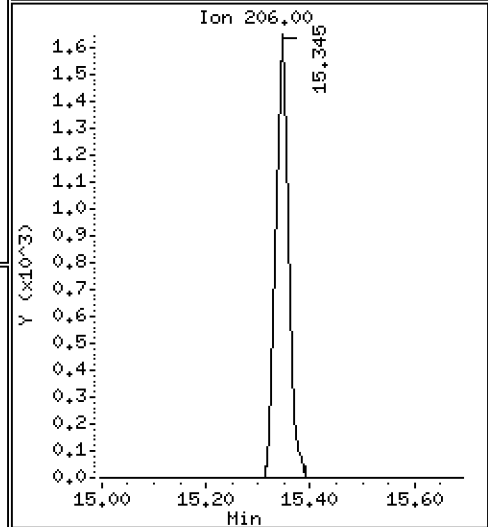
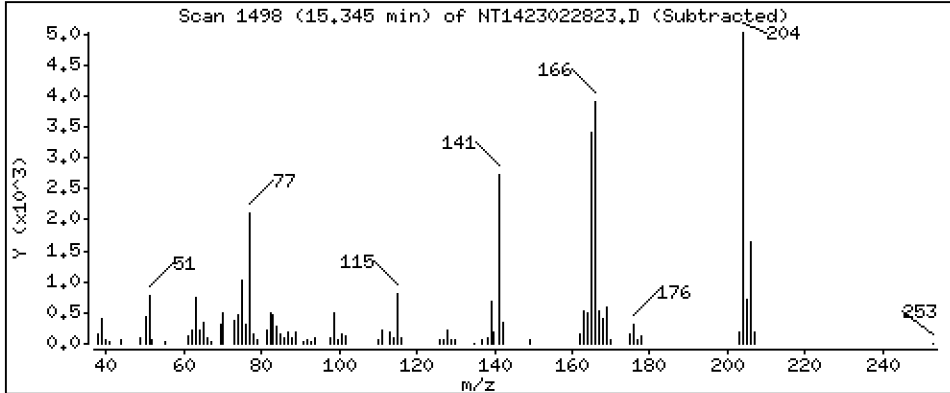
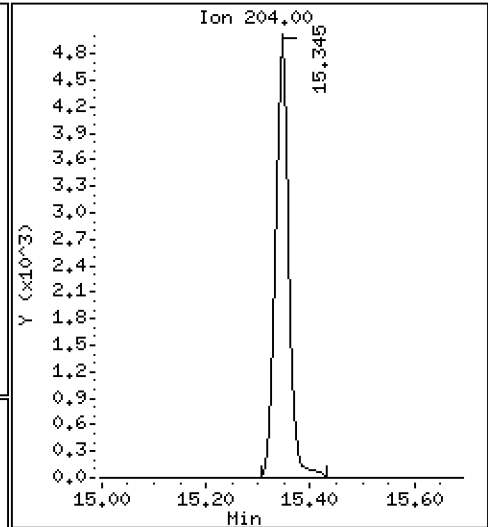
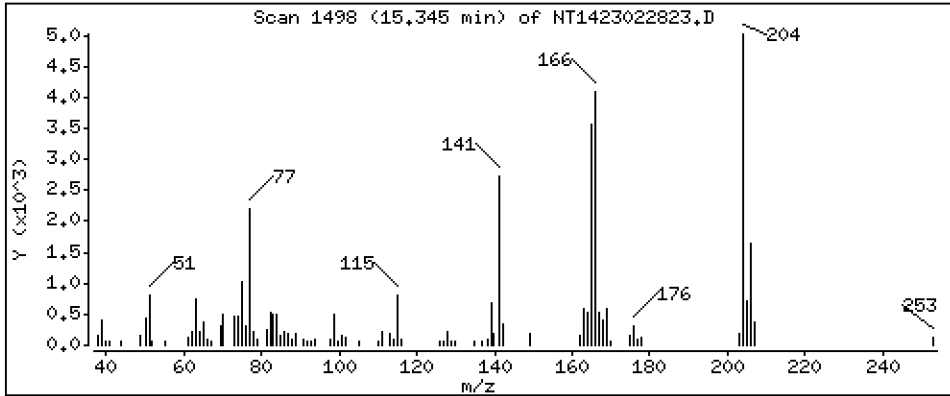
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 0,2012 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

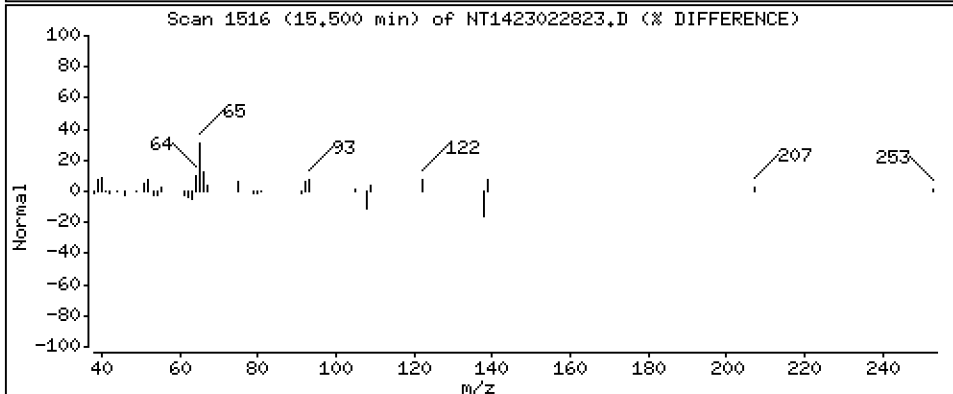
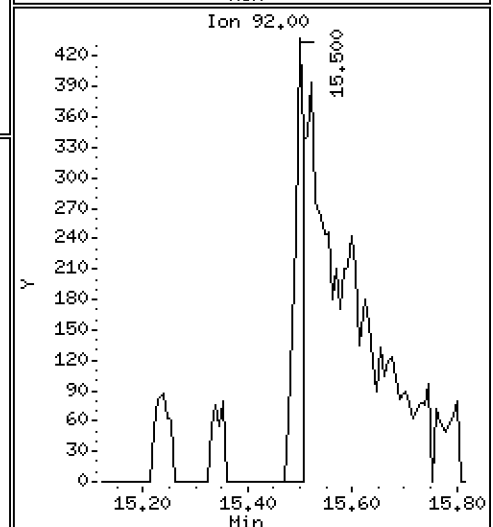
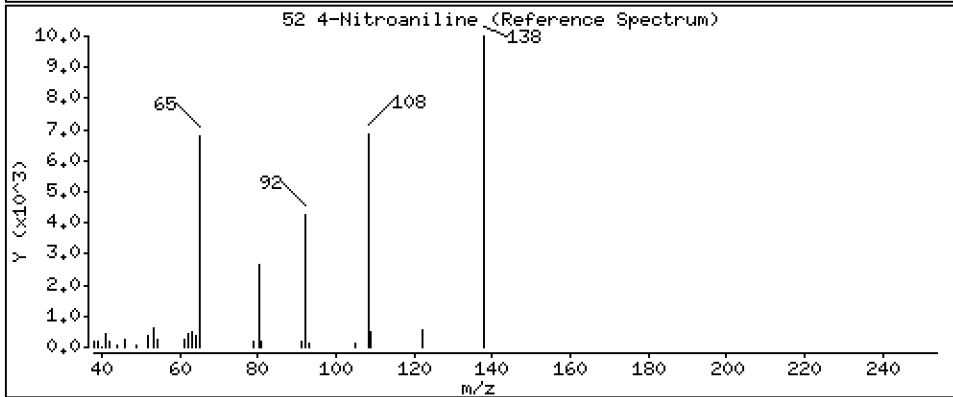
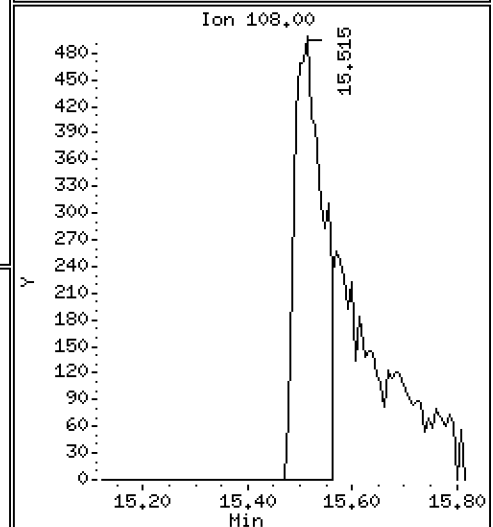
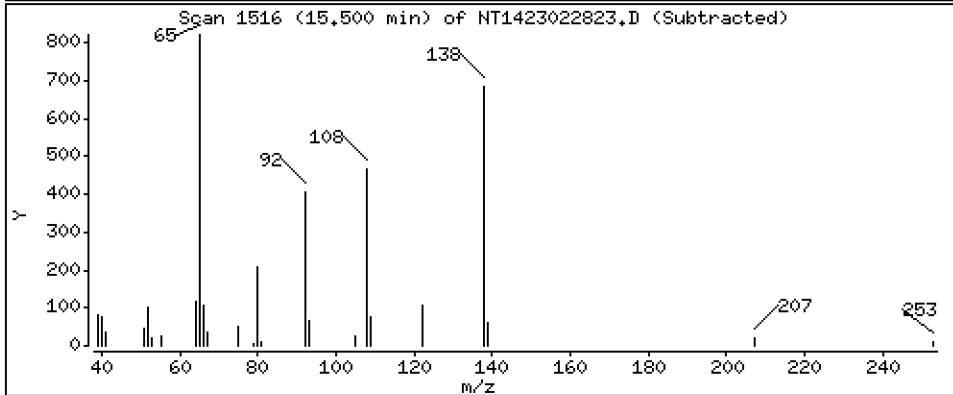
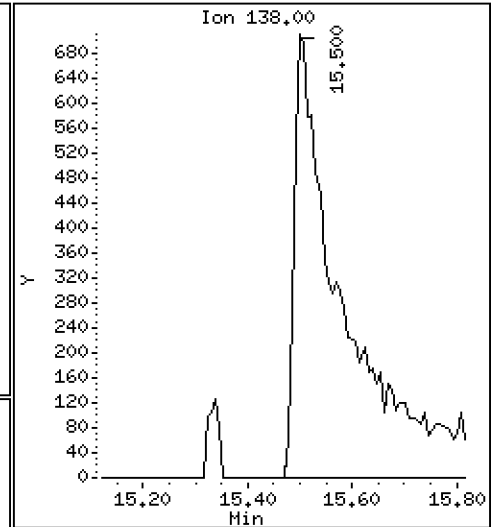
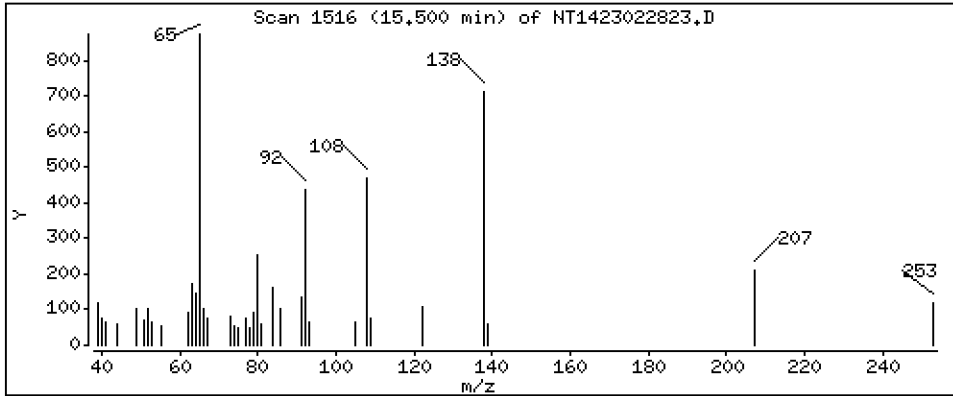
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

52 4-Nitroaniline

Concentration: 0,2714 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

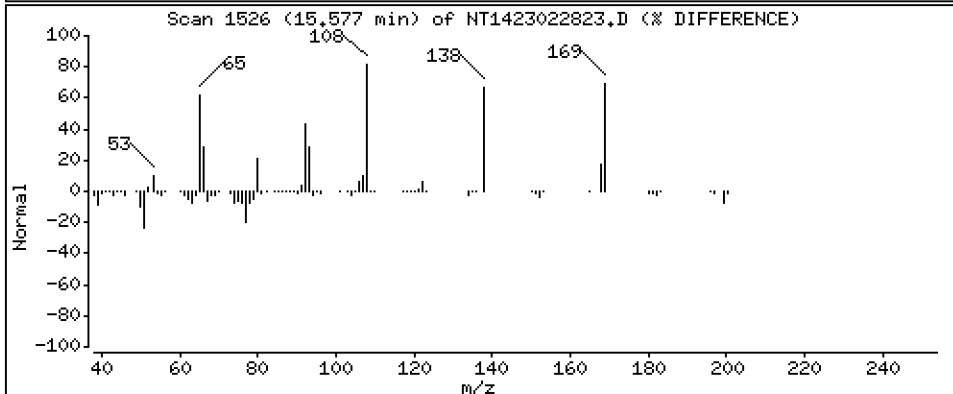
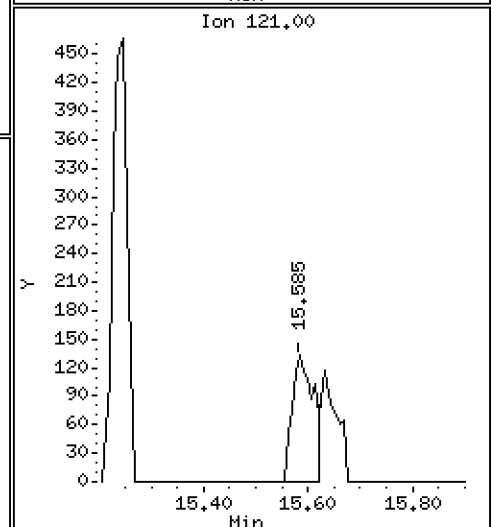
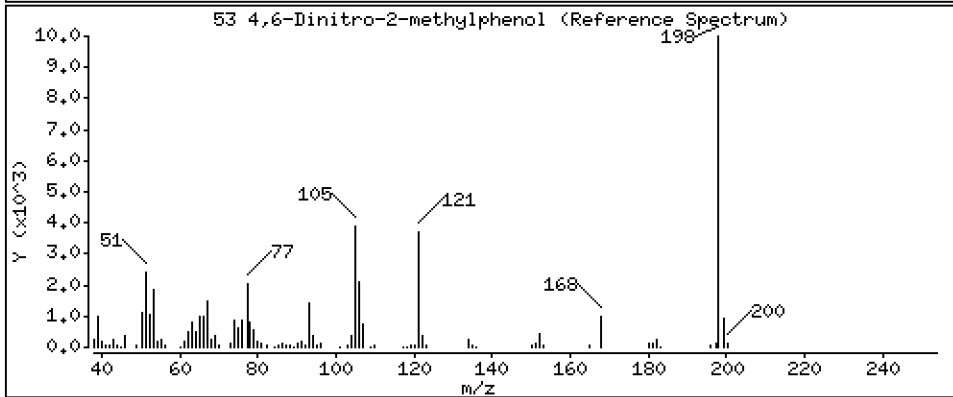
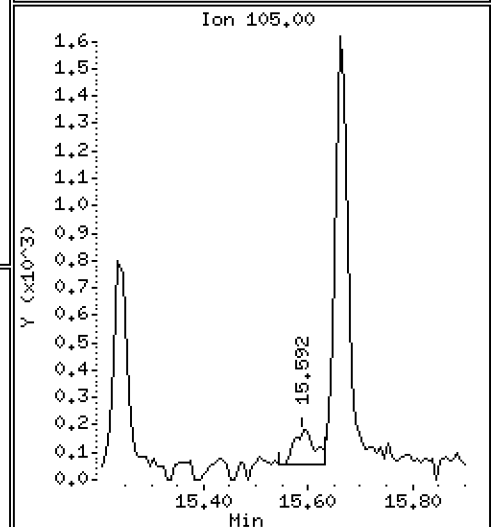
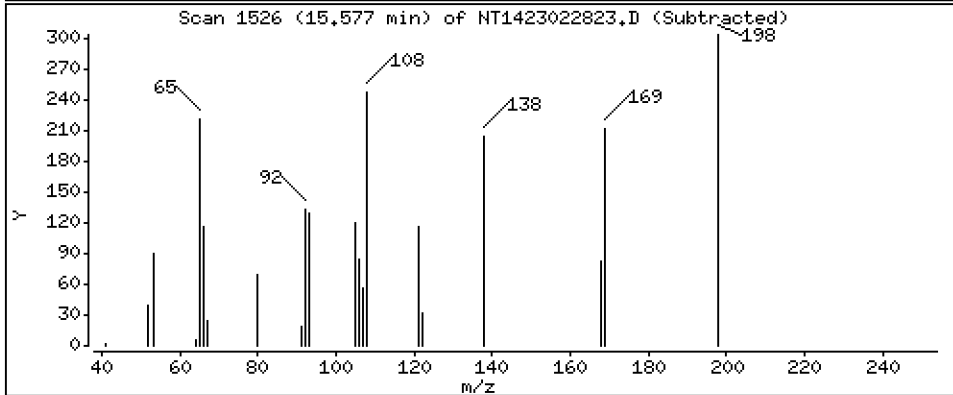
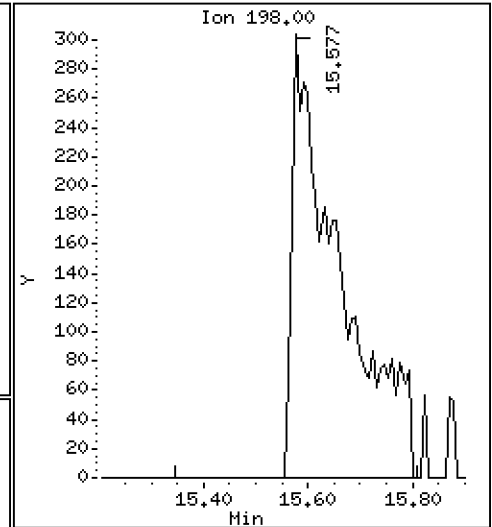
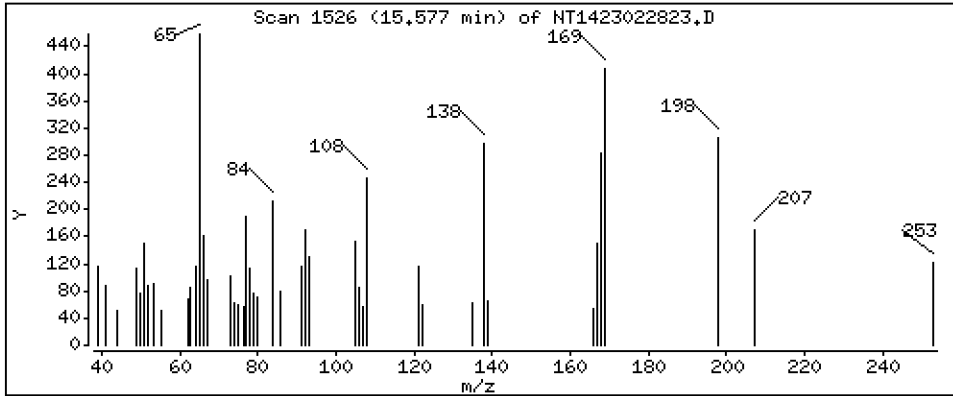
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

53 4,6-Dinitro-2-methylphenol

Concentration: 0,1376 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

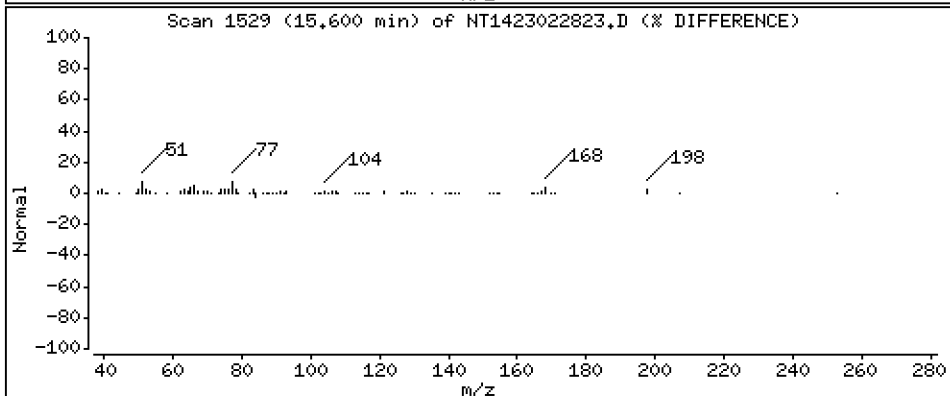
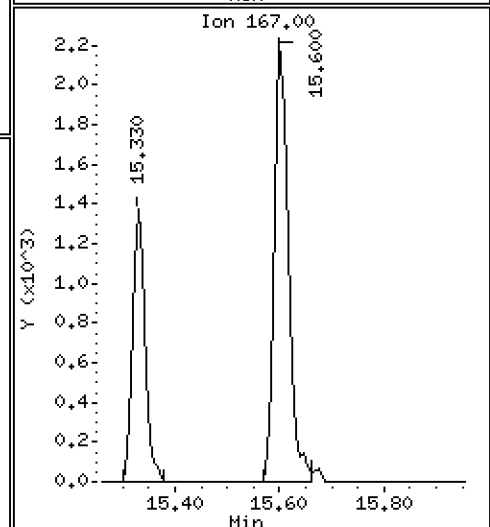
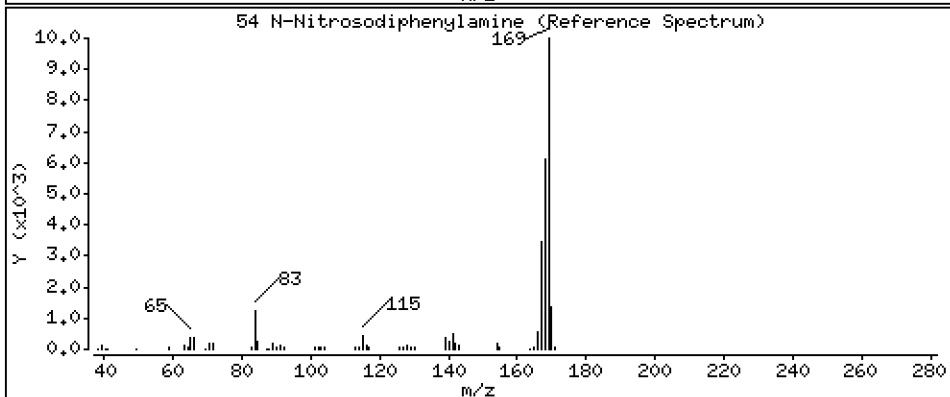
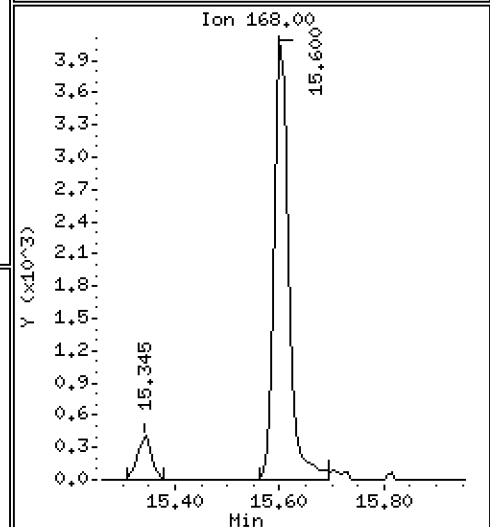
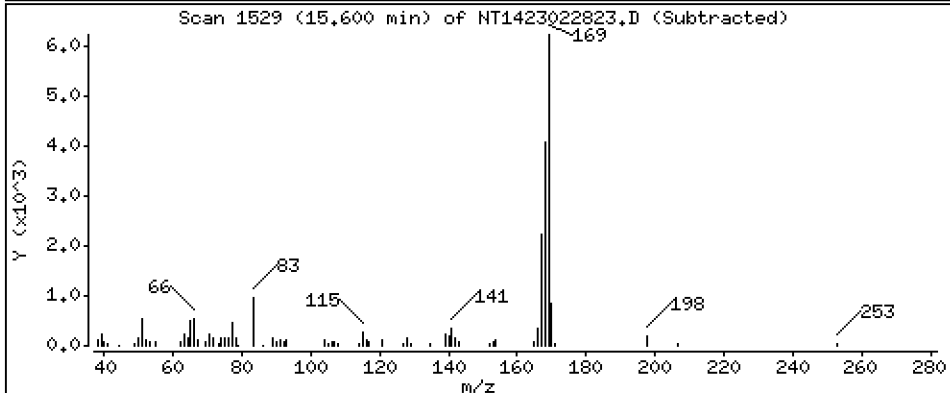
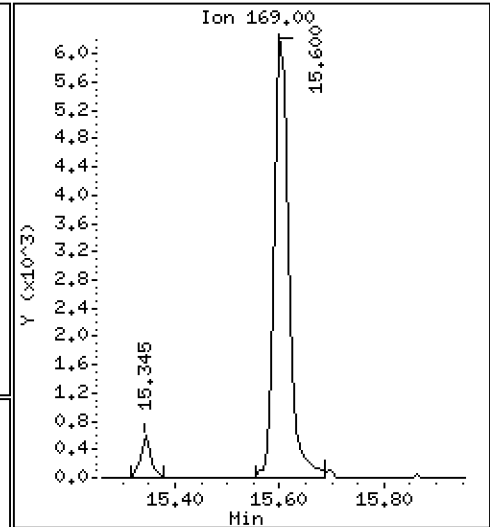
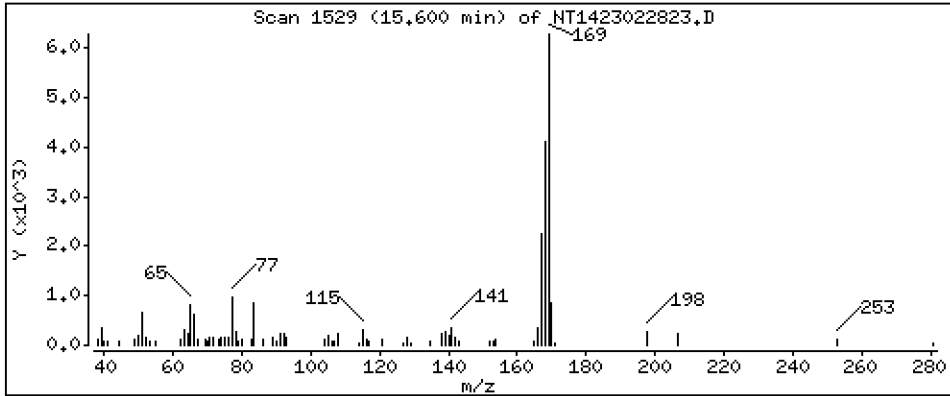
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

54 N-Nitrosodiphenylamine

Concentration: 0,2123 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

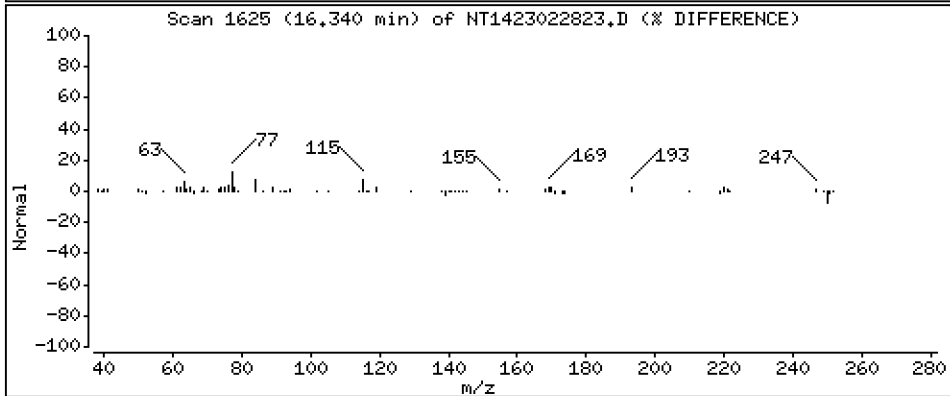
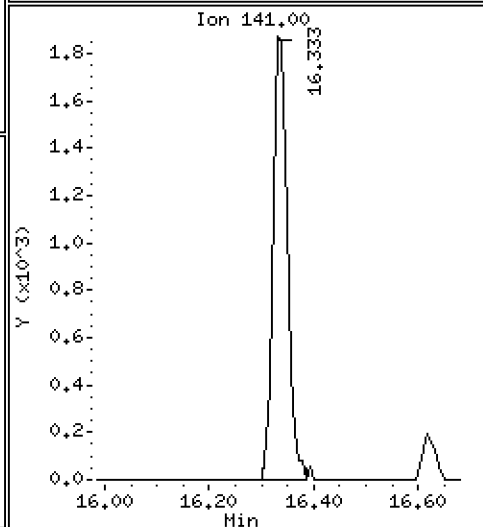
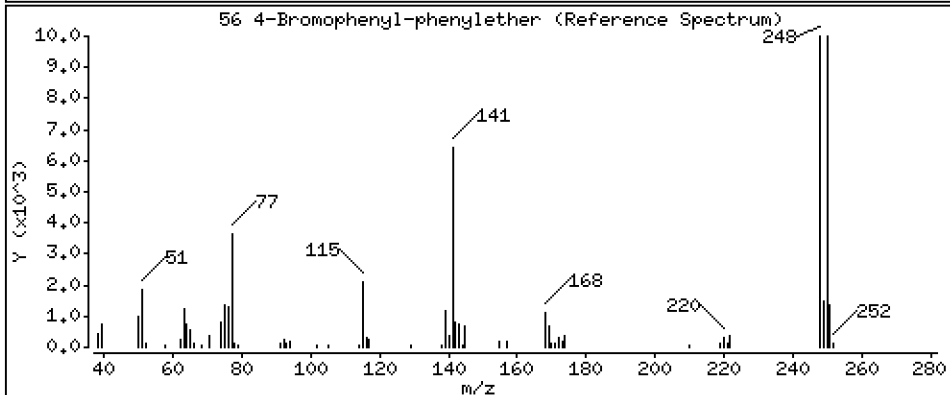
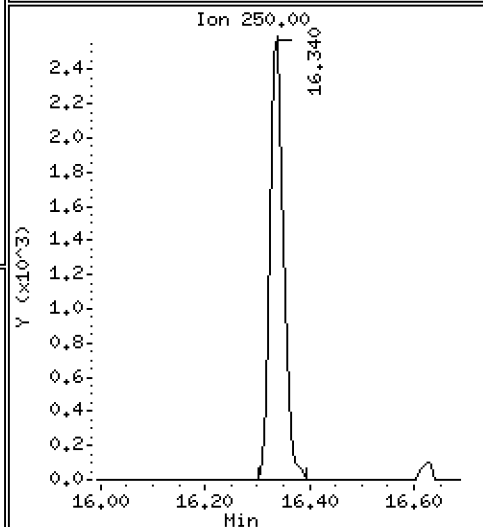
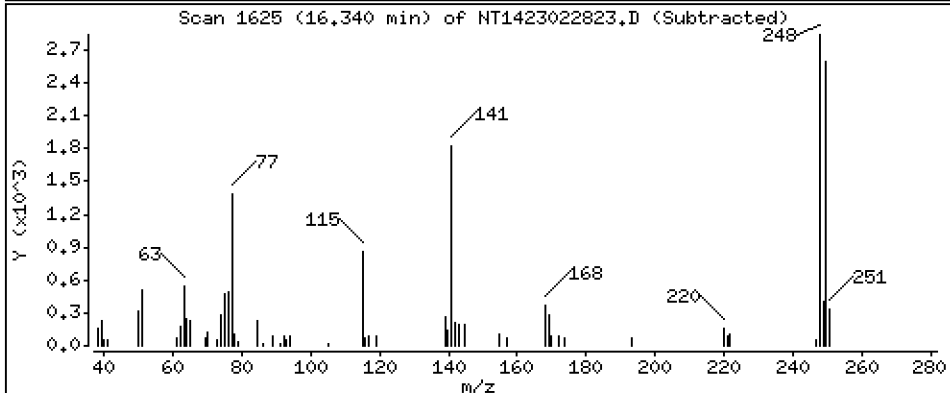
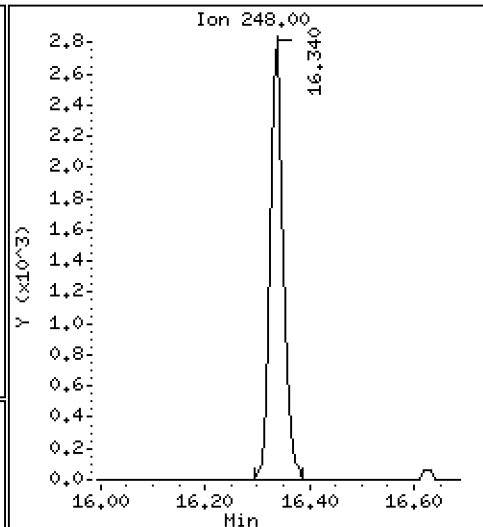
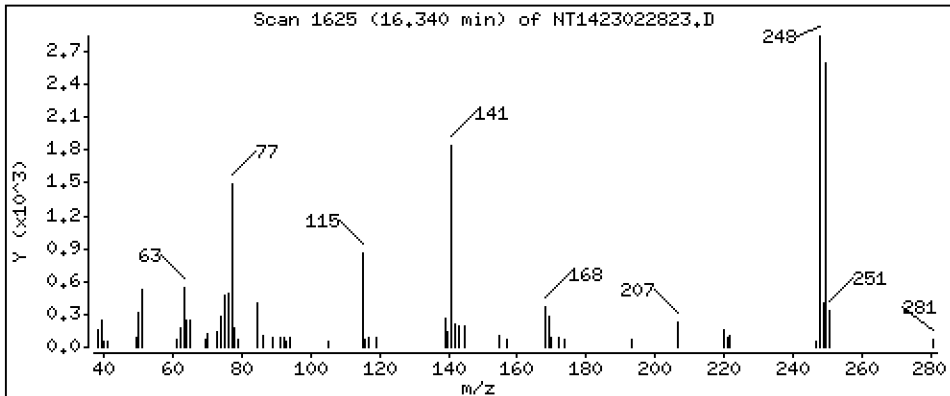
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

56 4-Bromophenyl-phenylether

Concentration: 0.2019 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

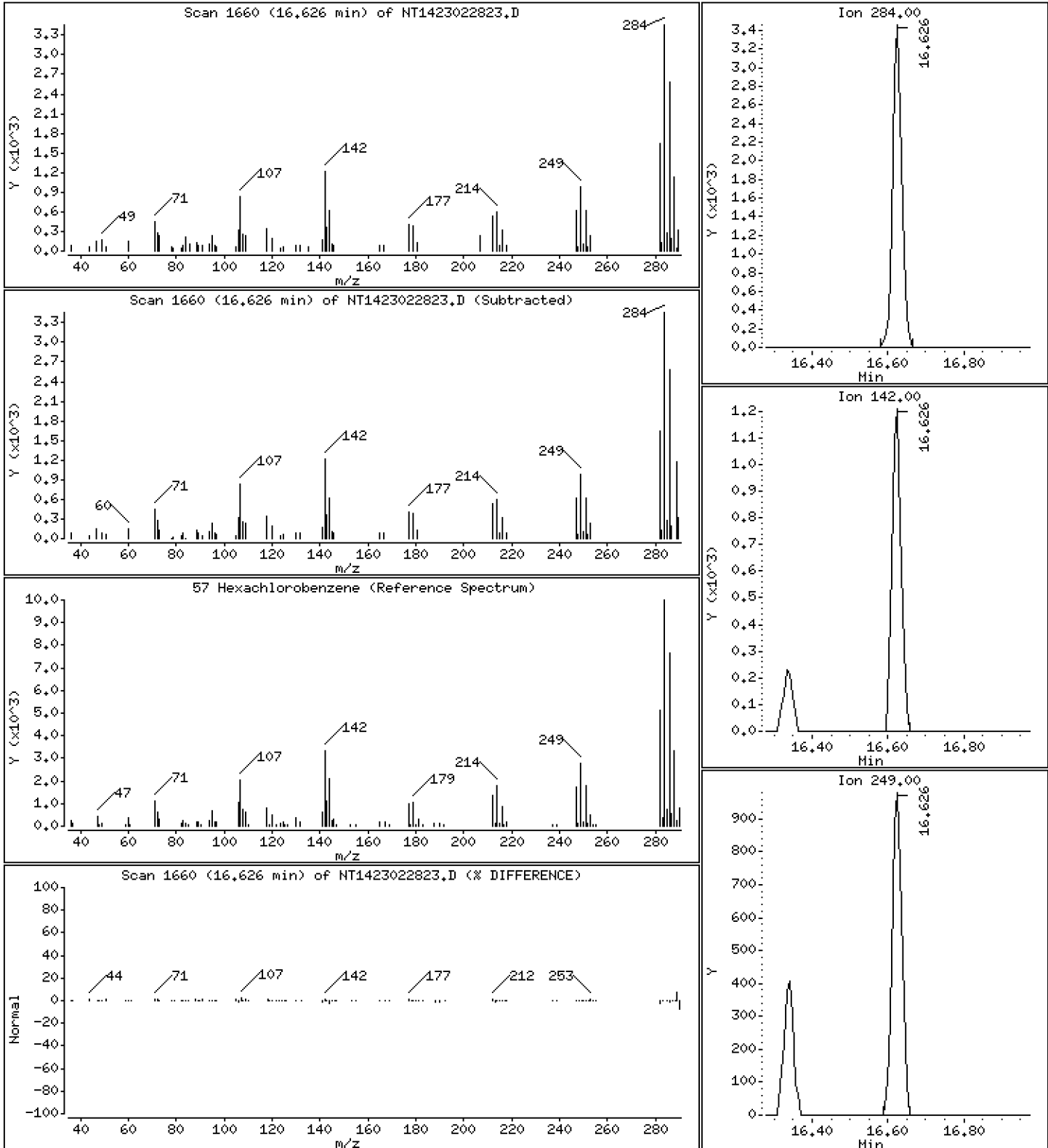
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

57 Hexachlorobenzene

Concentration: 0.2138 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

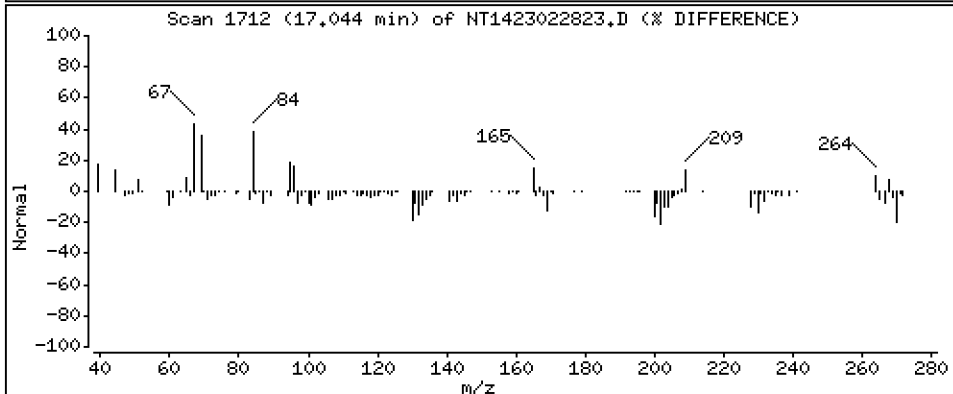
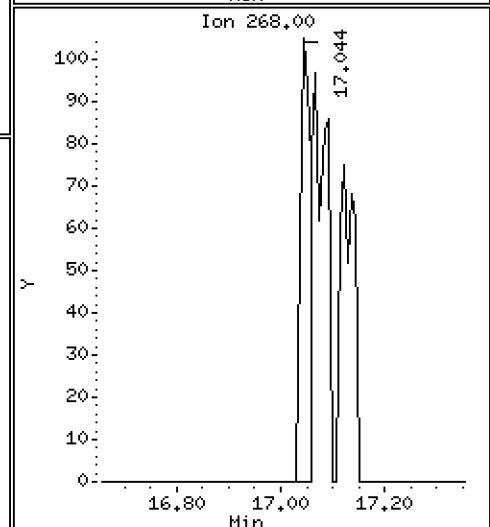
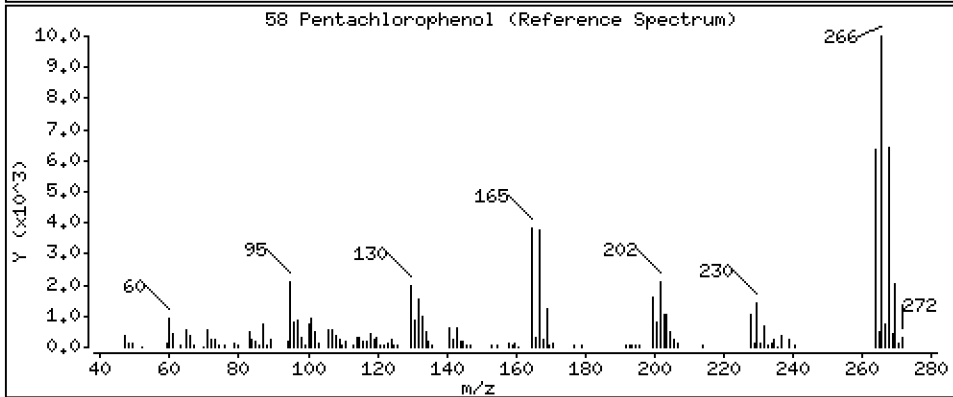
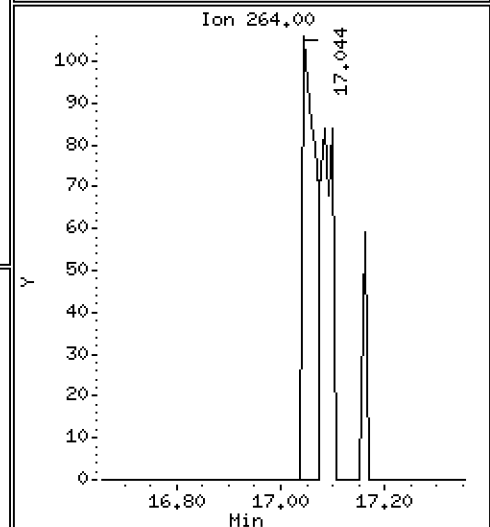
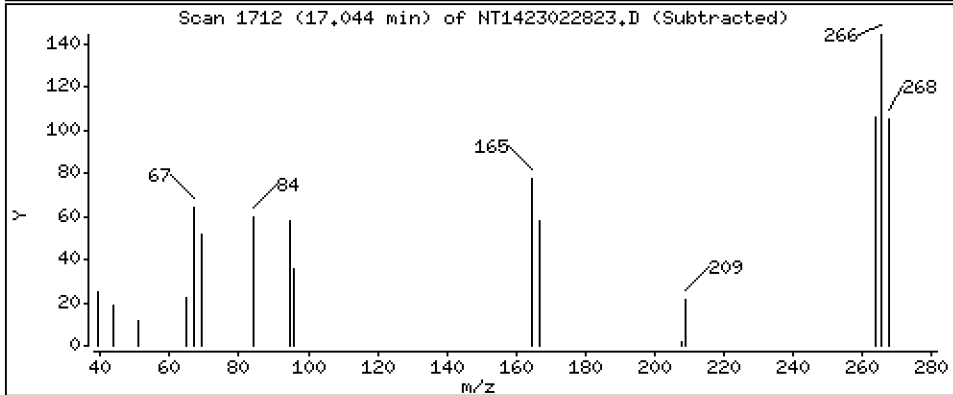
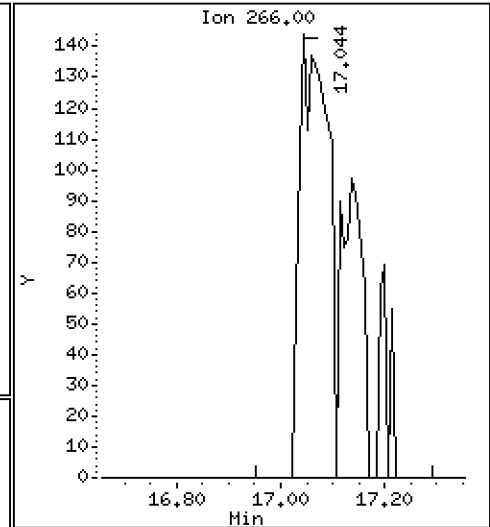
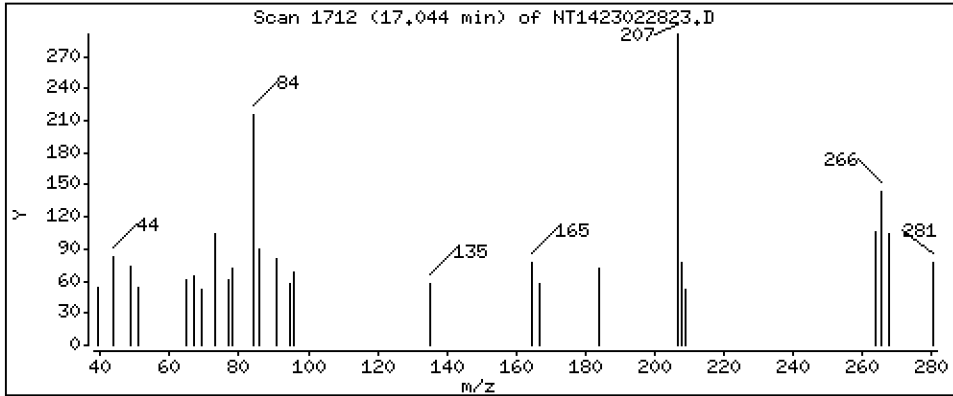
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 0,07199 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

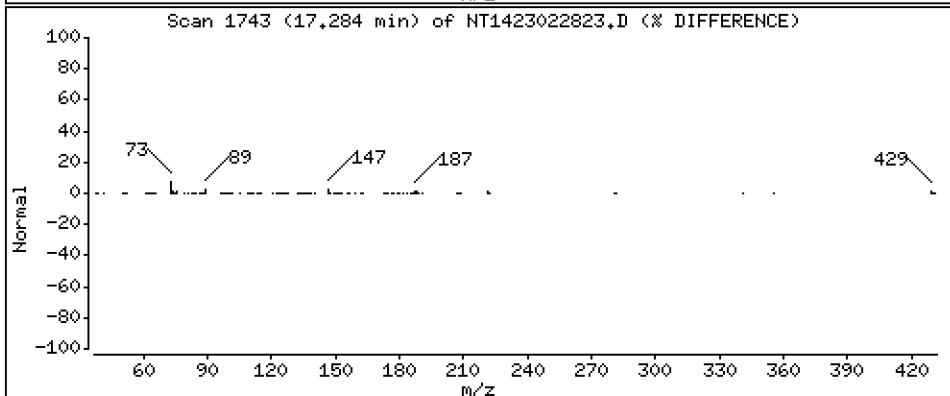
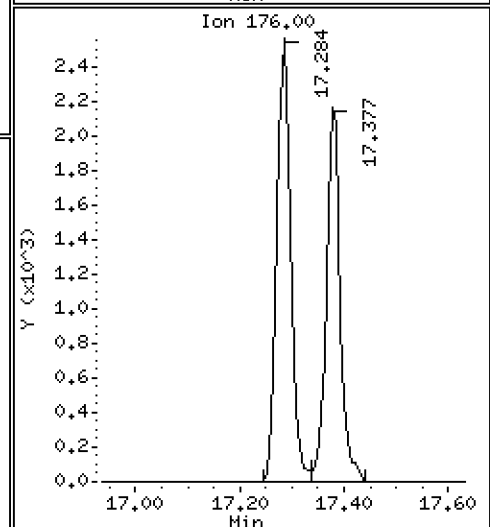
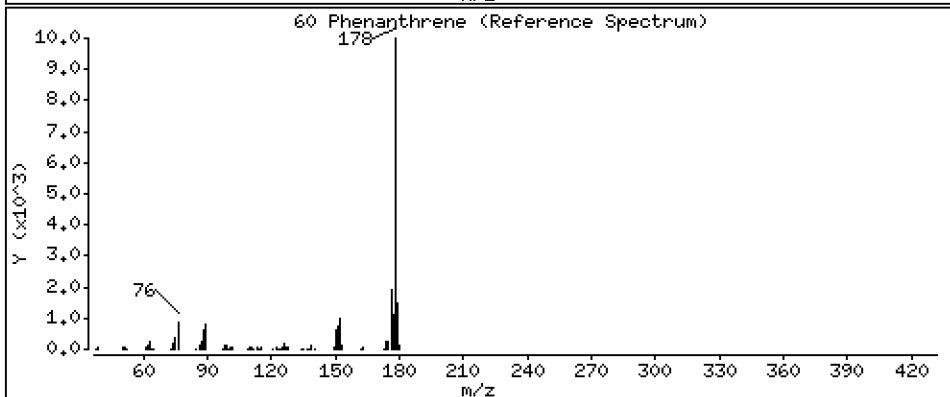
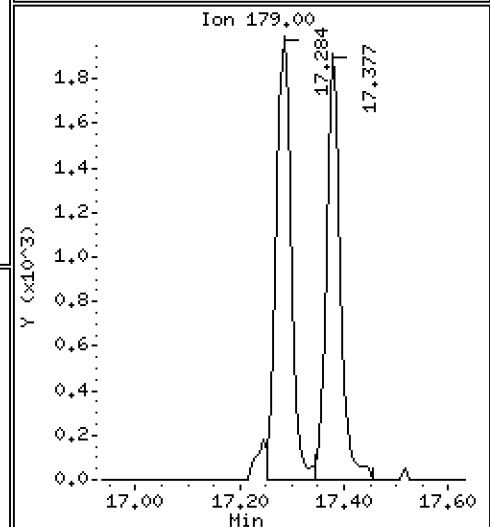
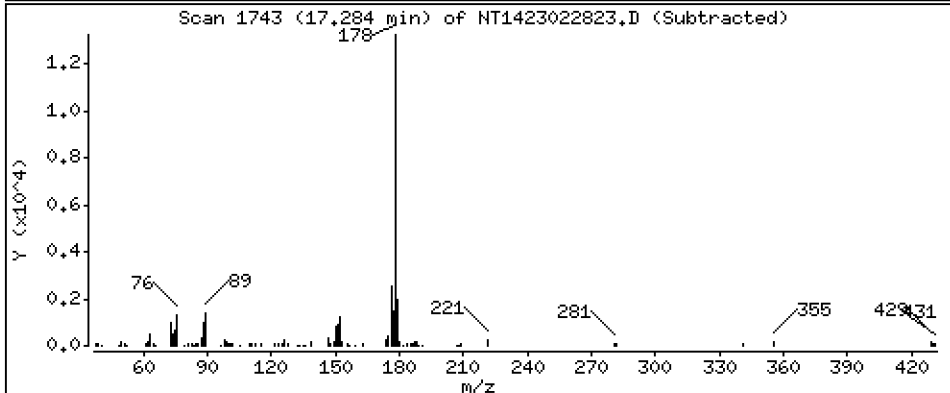
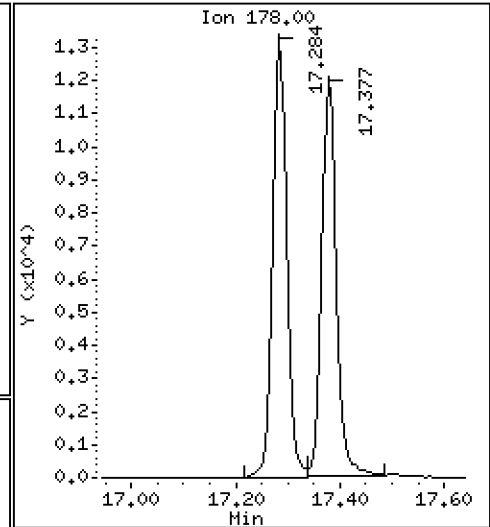
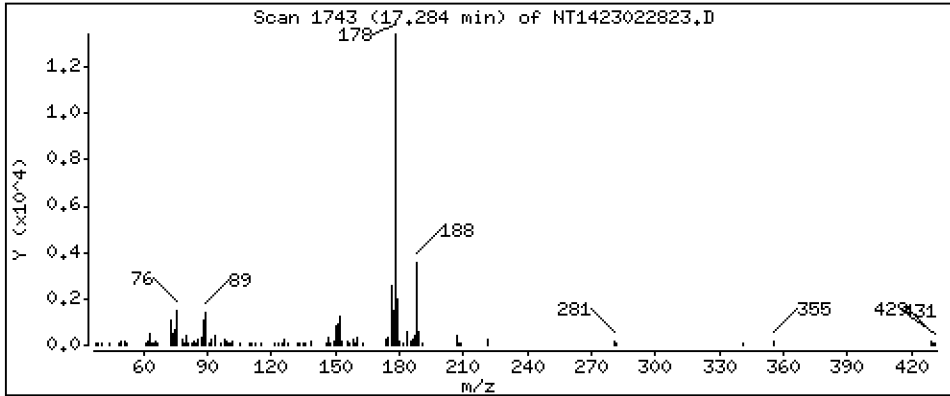
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

60 Phenanthrene

Concentration: 0.2061 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

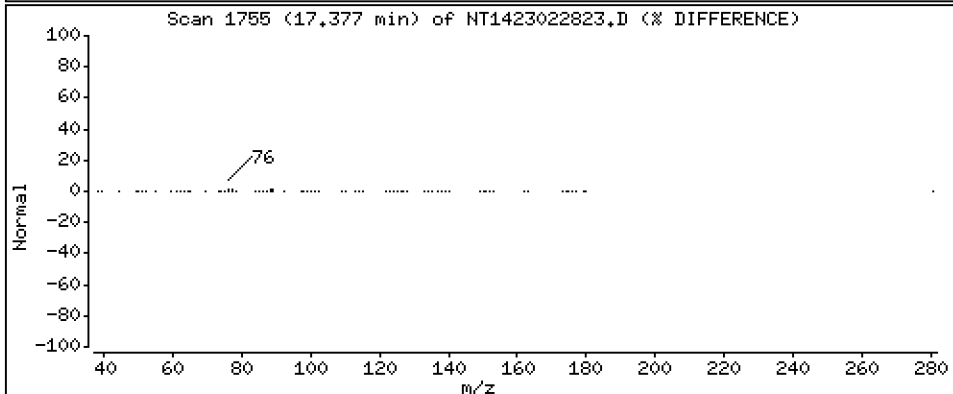
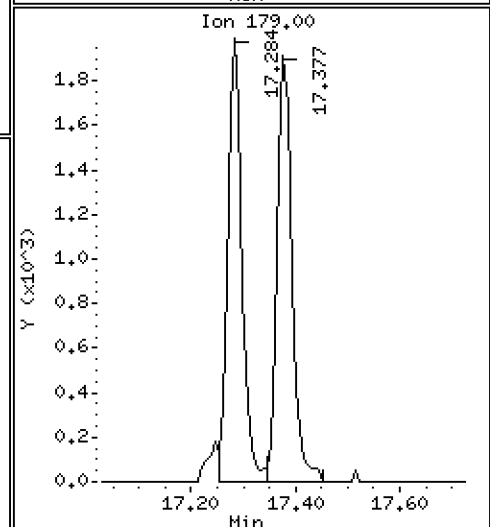
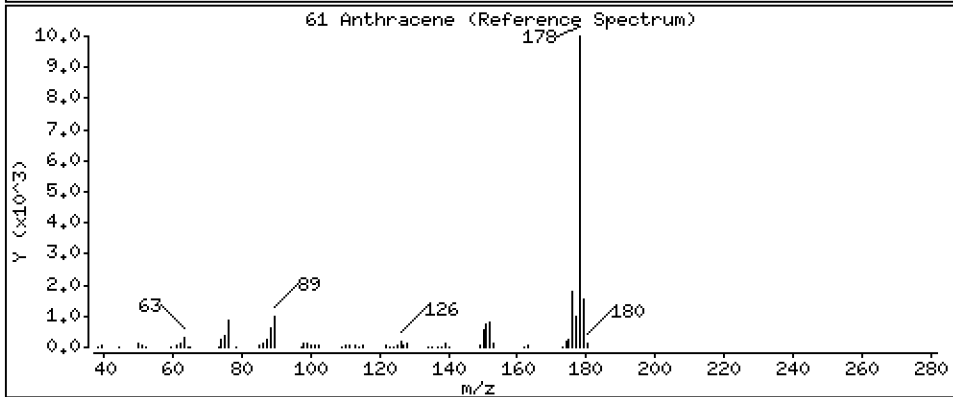
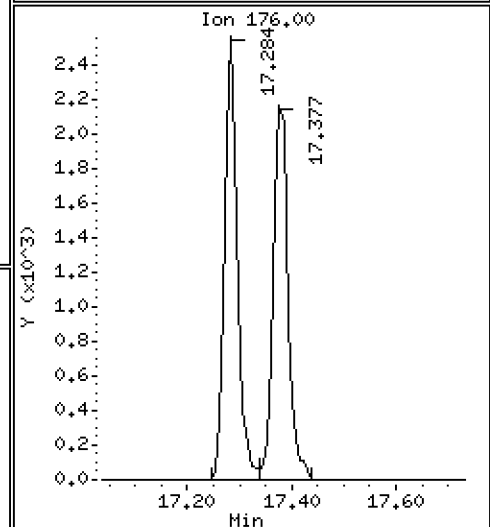
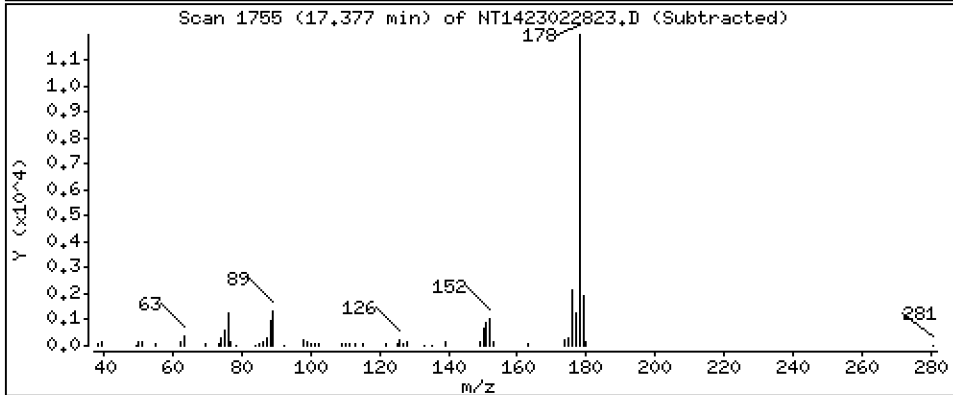
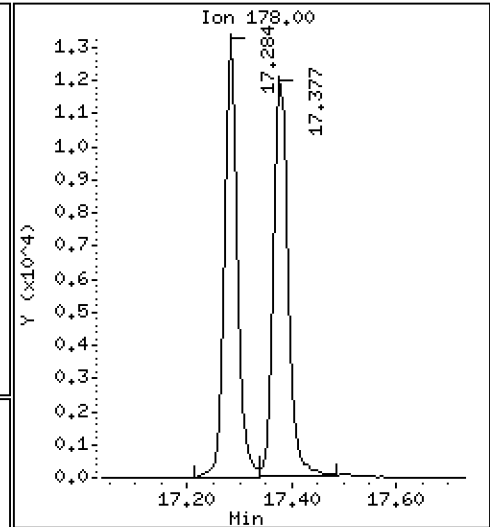
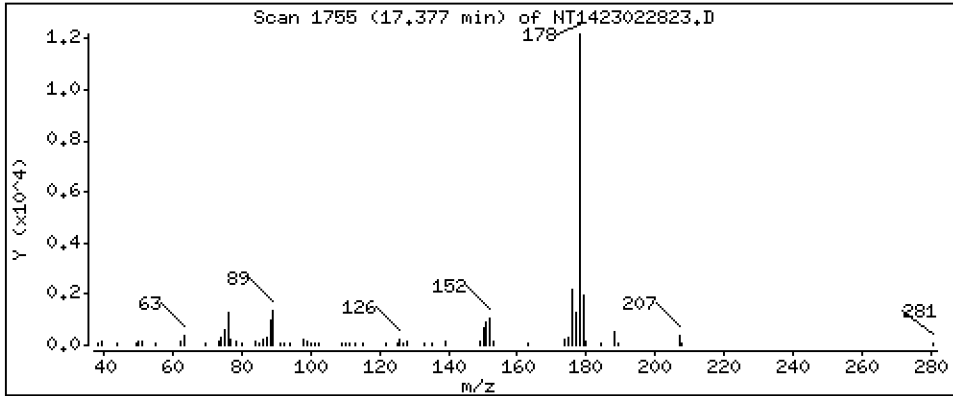
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 0,2046 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

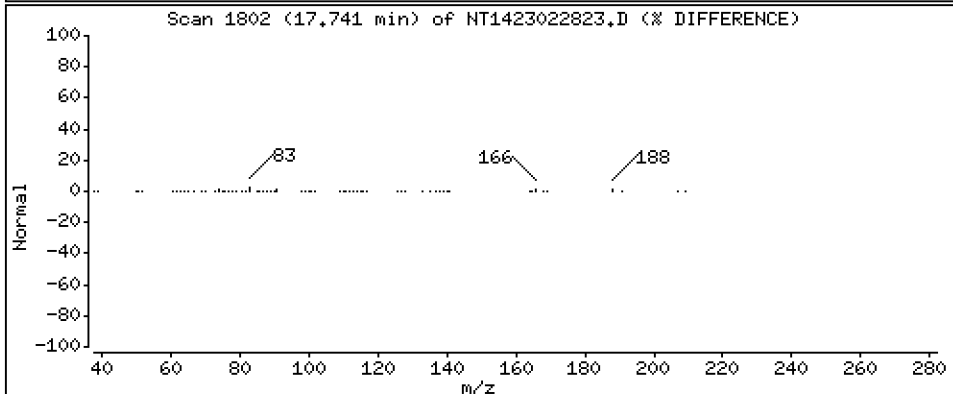
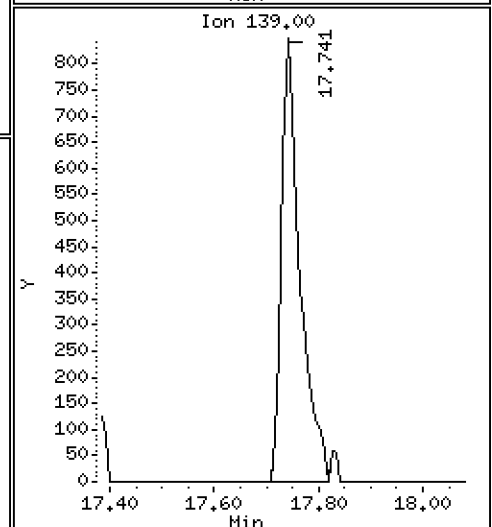
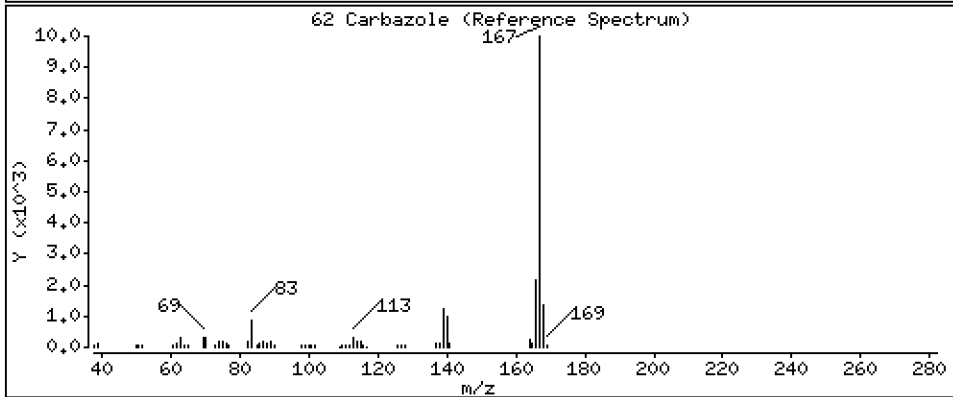
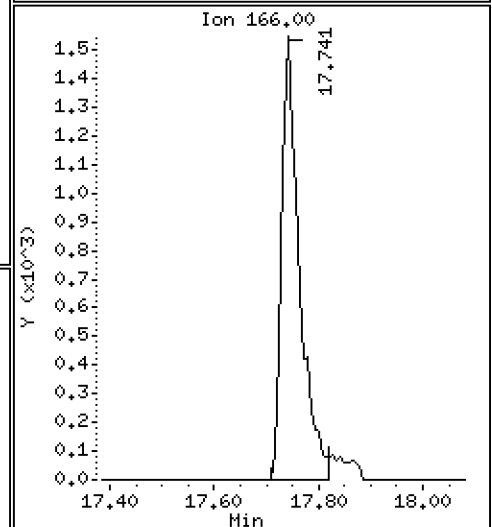
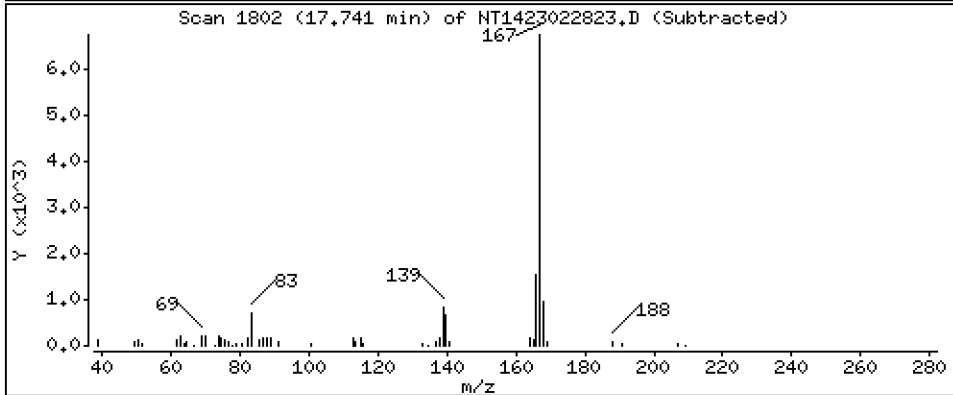
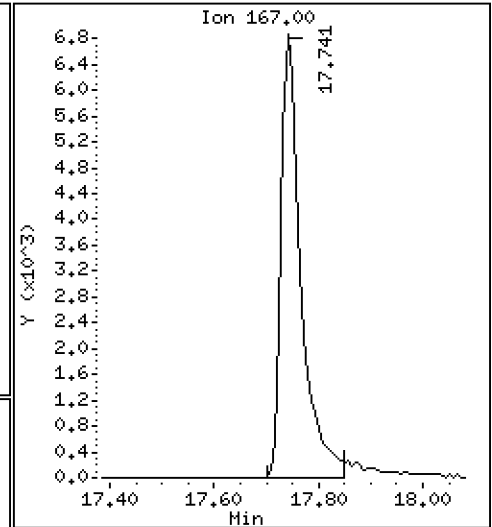
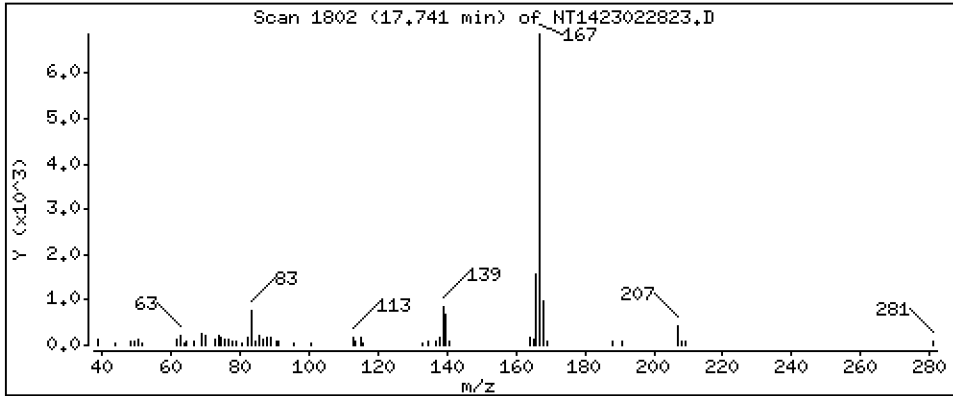
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 0,1855 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

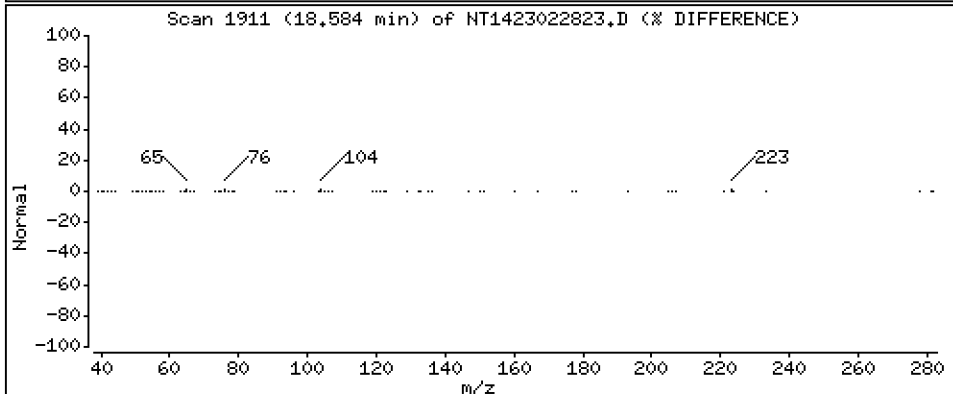
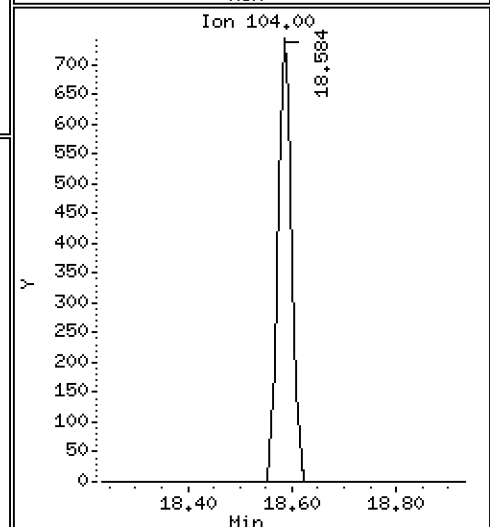
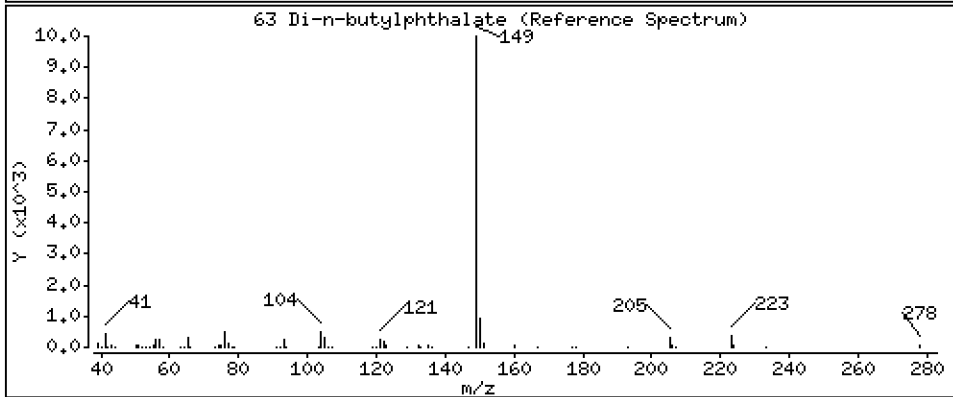
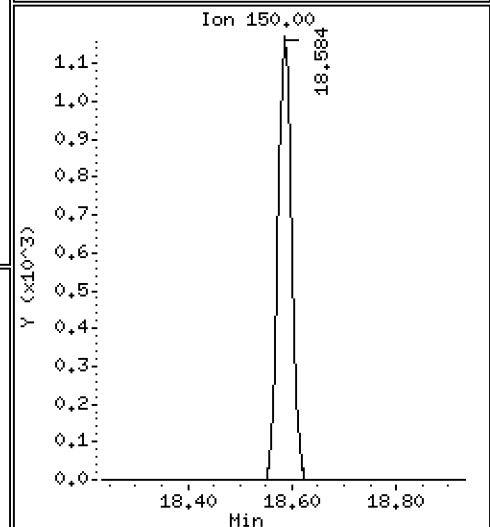
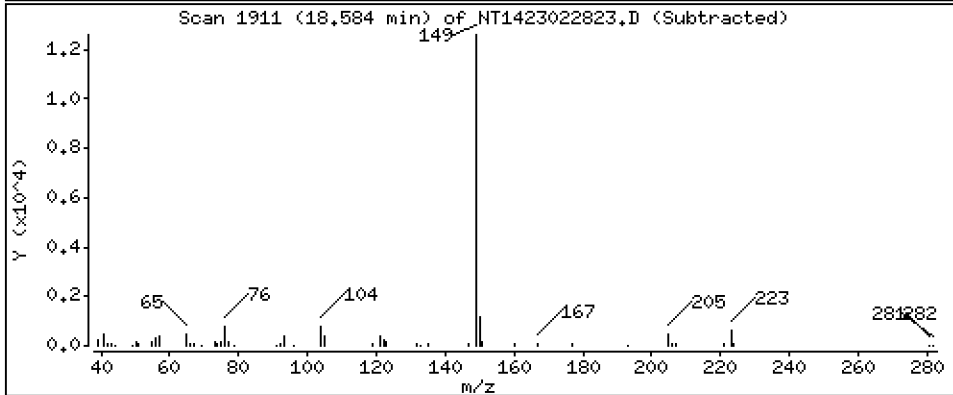
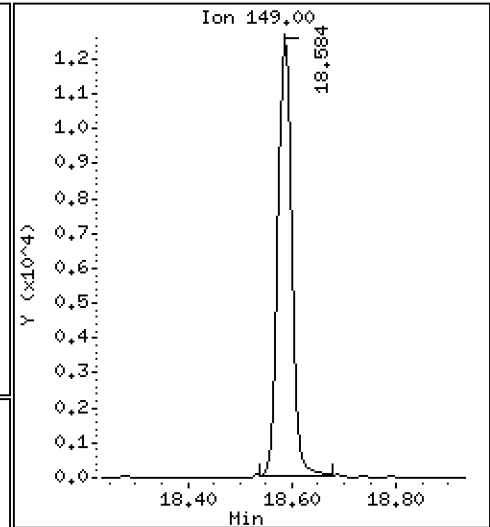
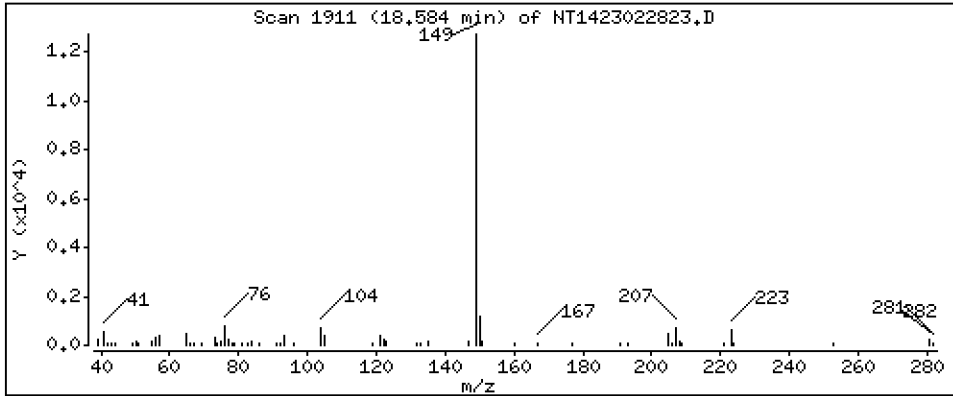
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 0,1791 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

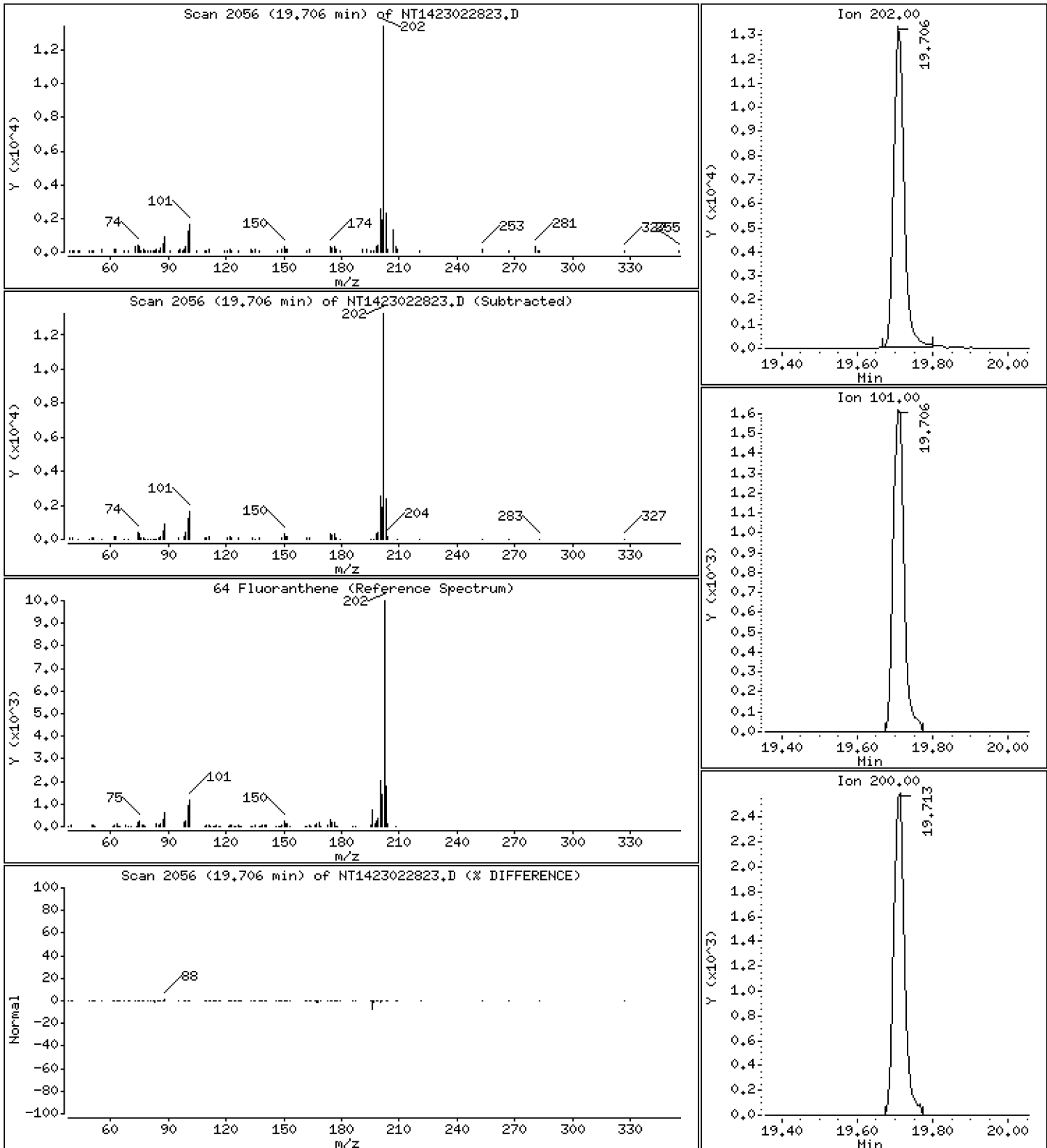
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 0,1972 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

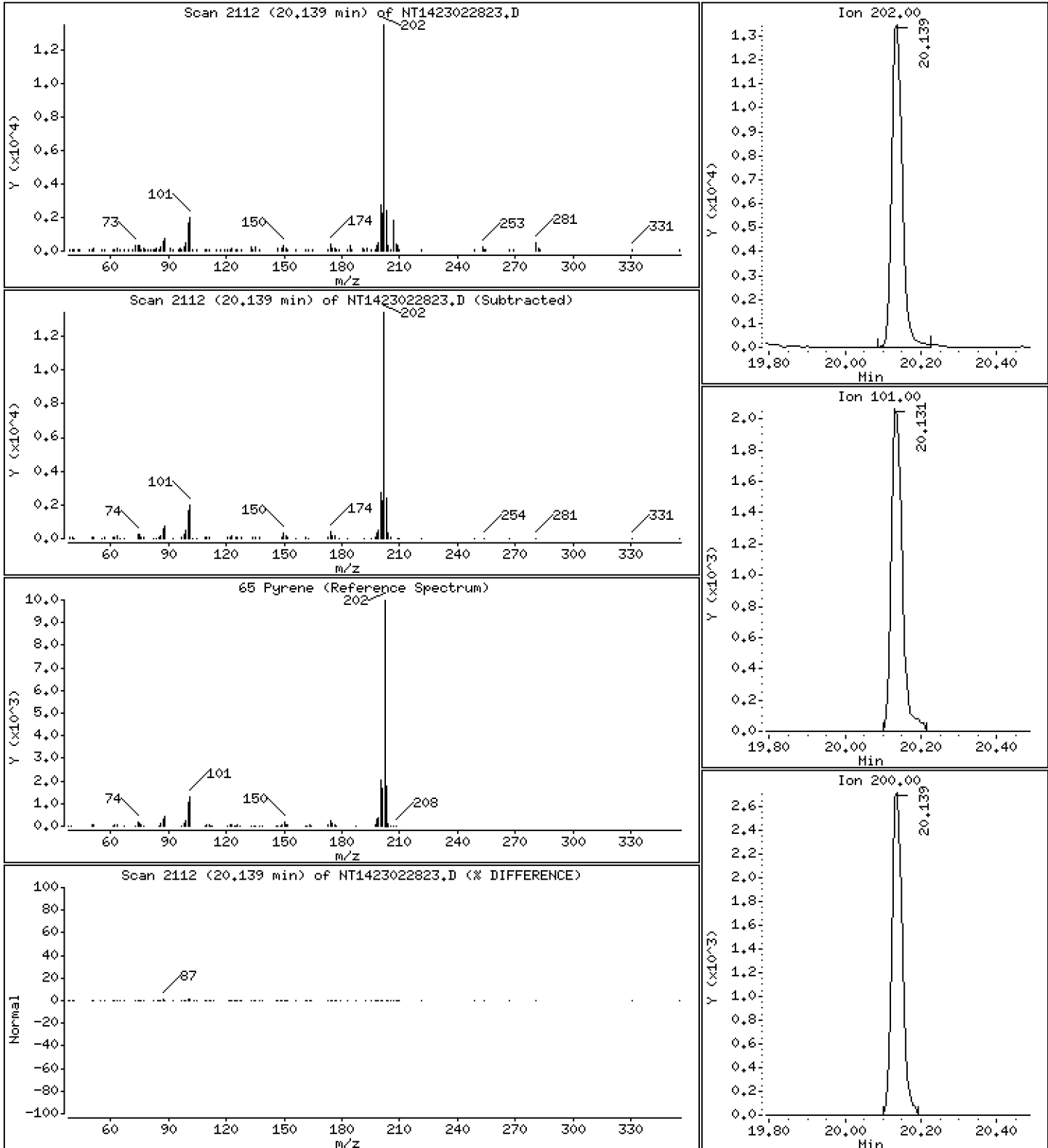
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 0,1944 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

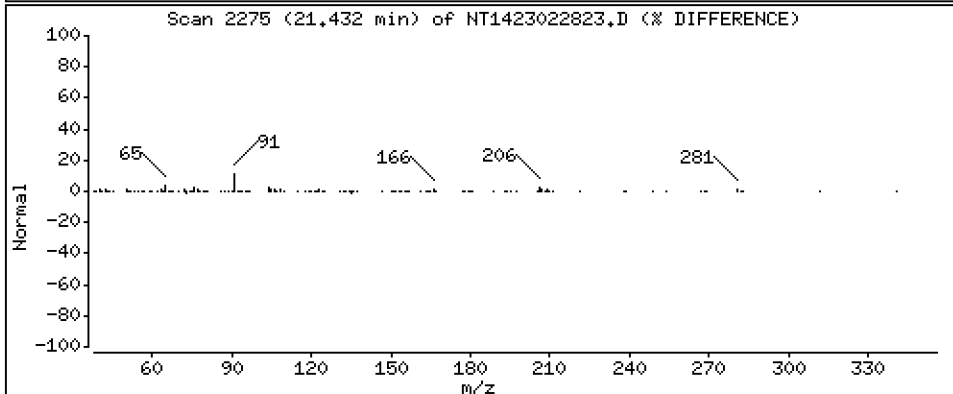
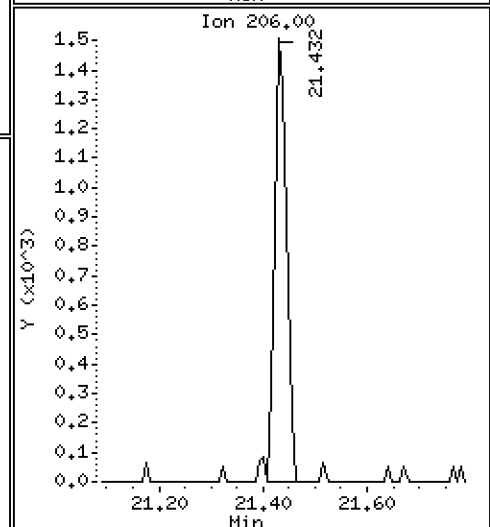
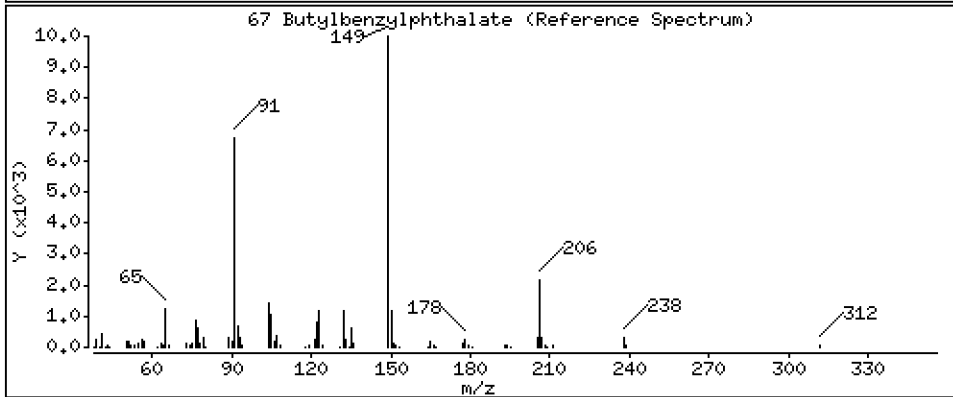
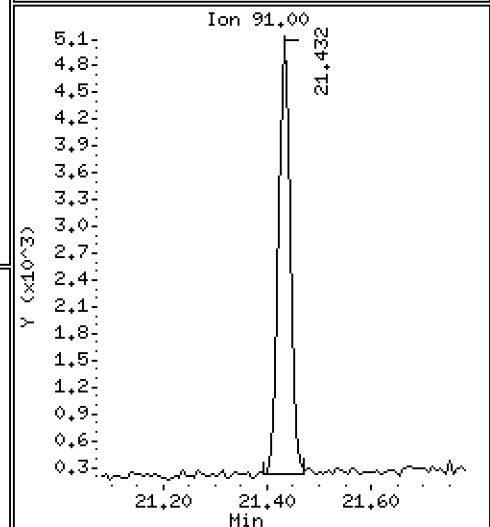
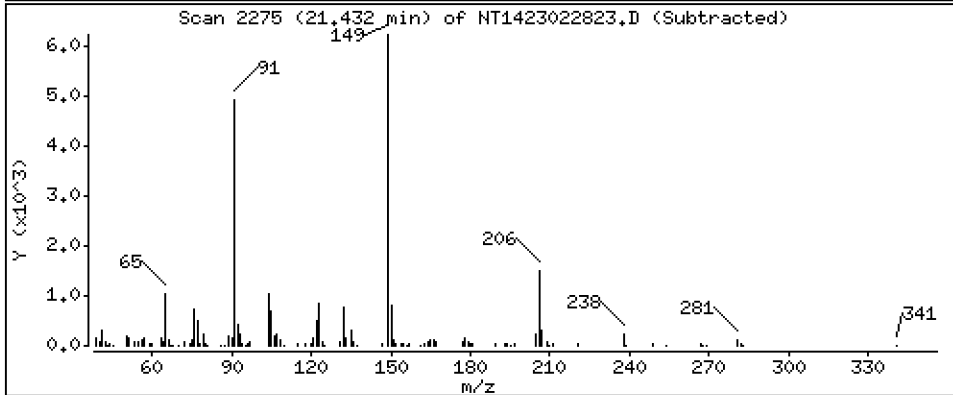
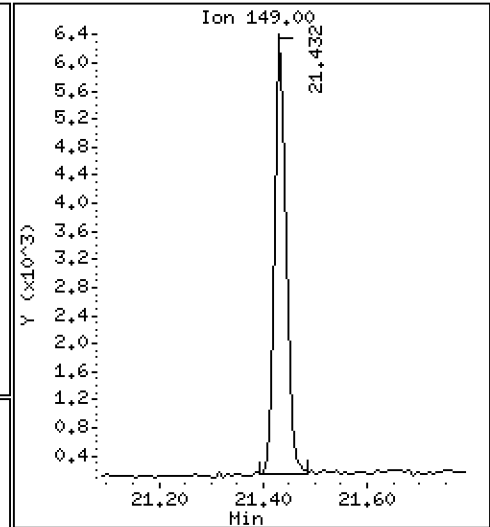
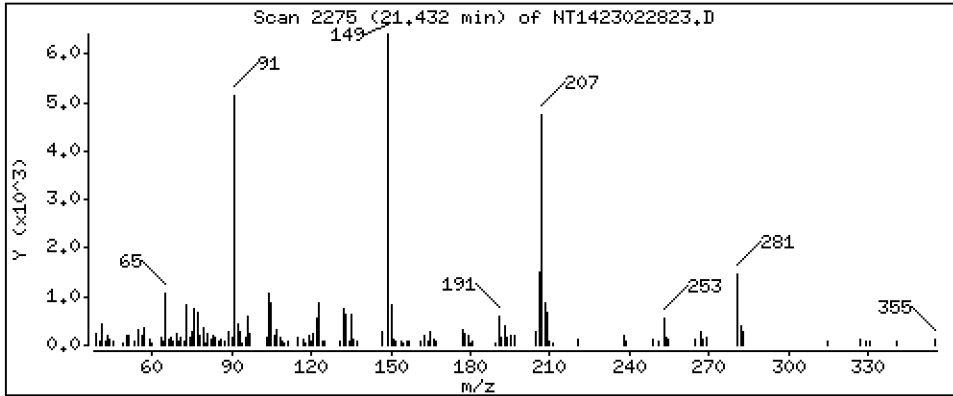
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 0,2043 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

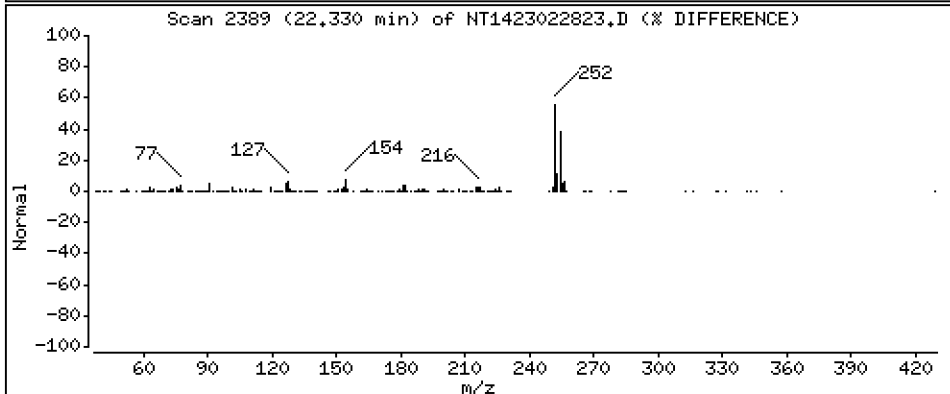
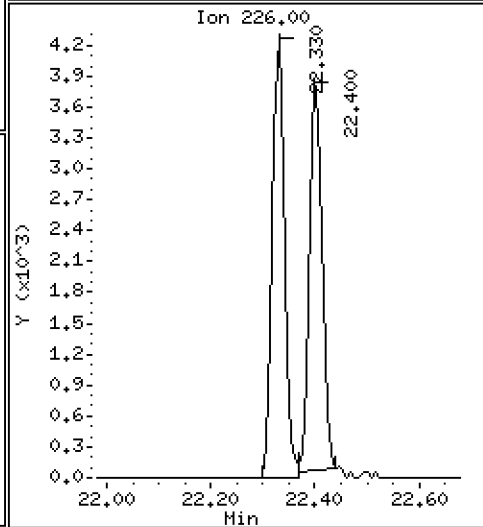
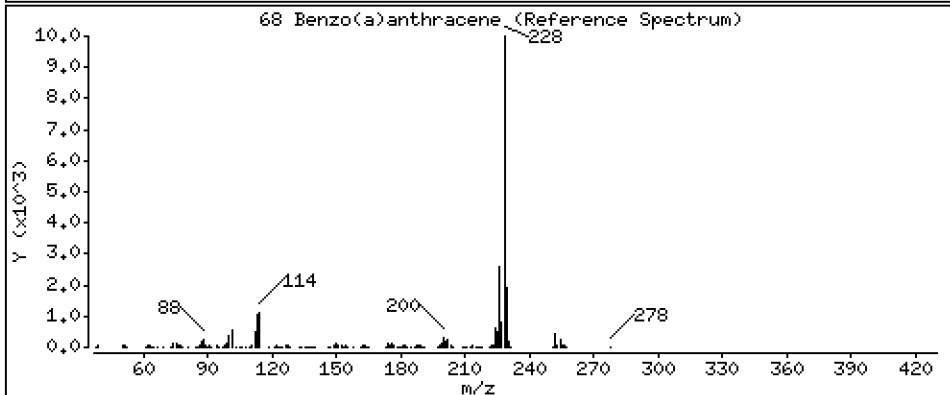
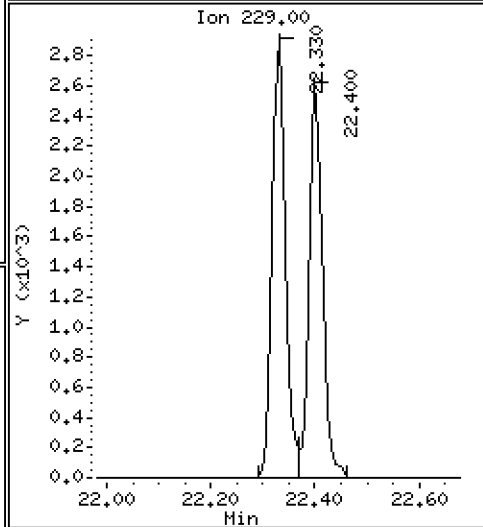
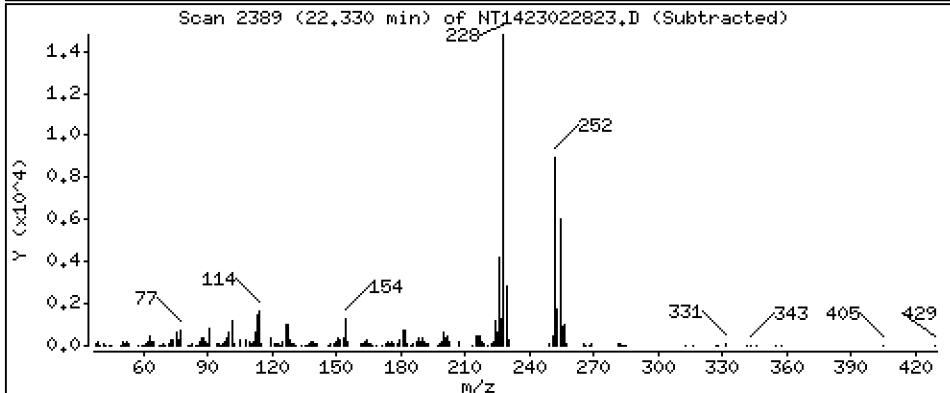
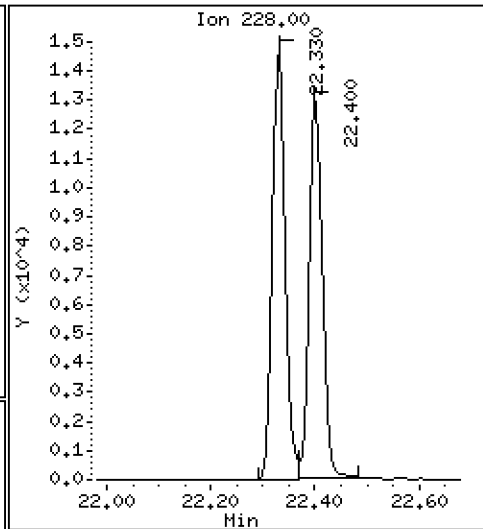
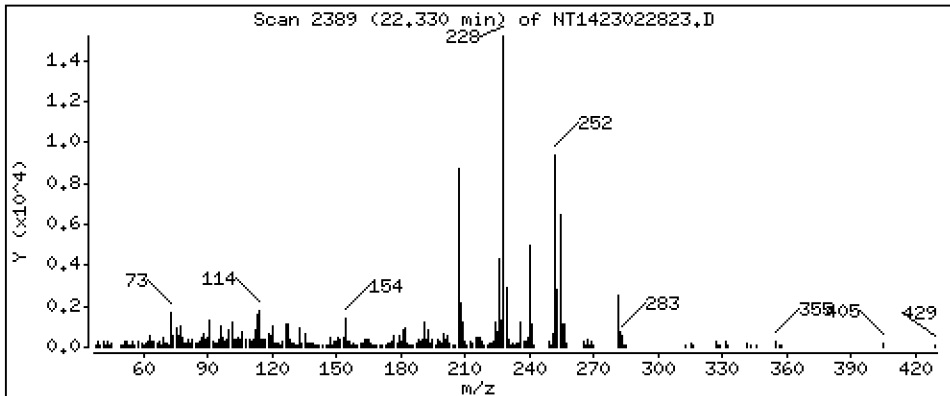
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

68 Benzo(a)anthracene

Concentration: 0.2215 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

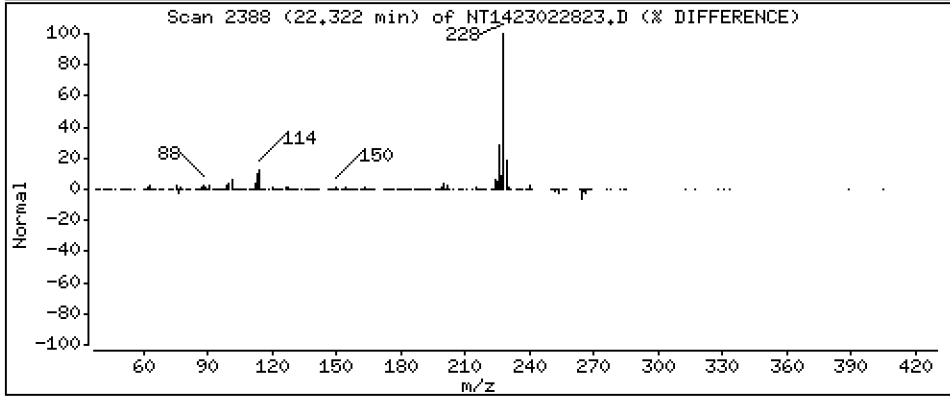
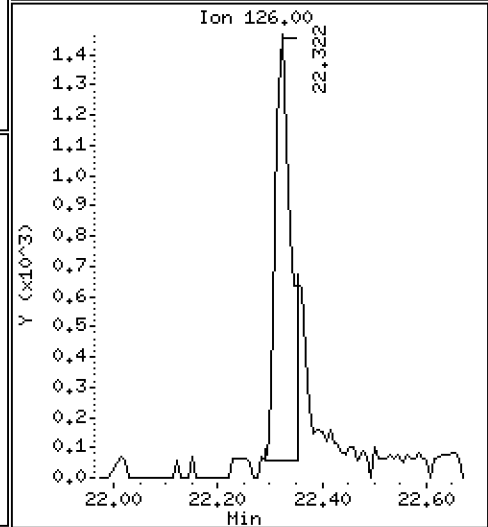
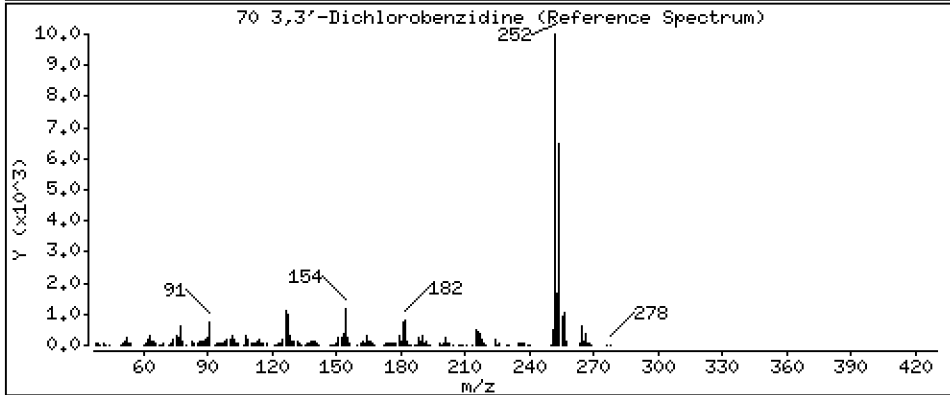
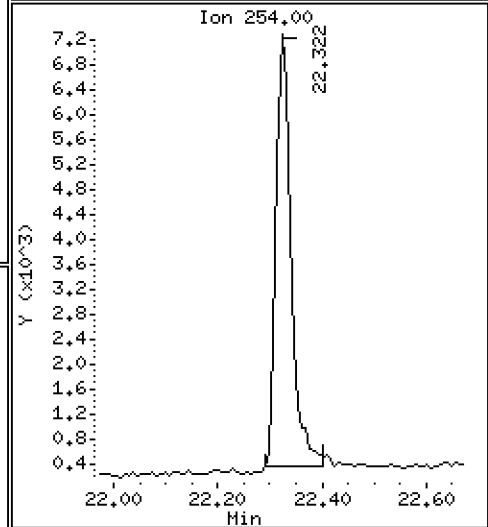
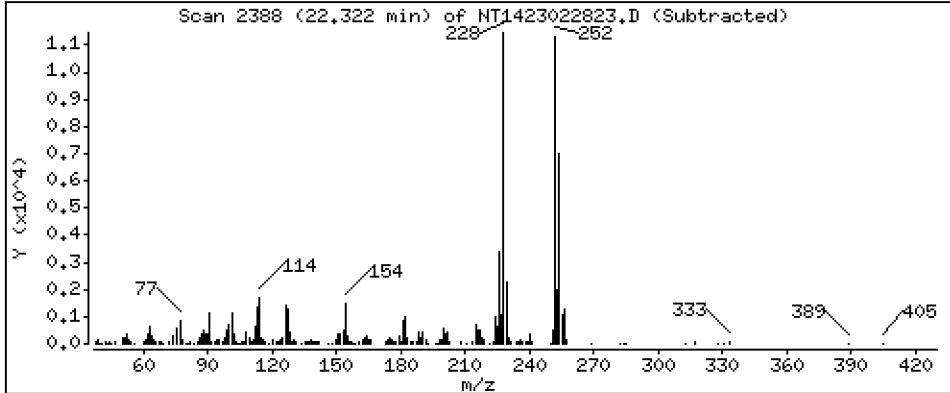
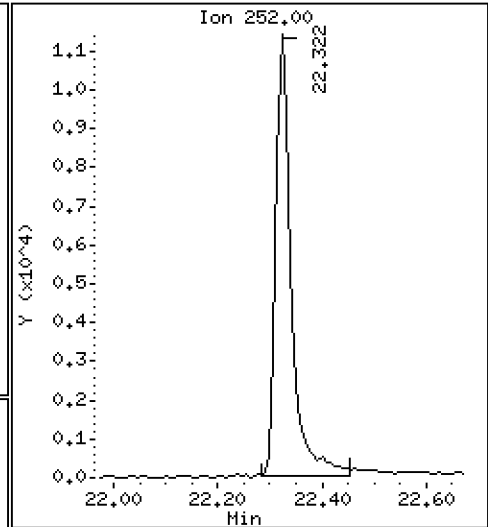
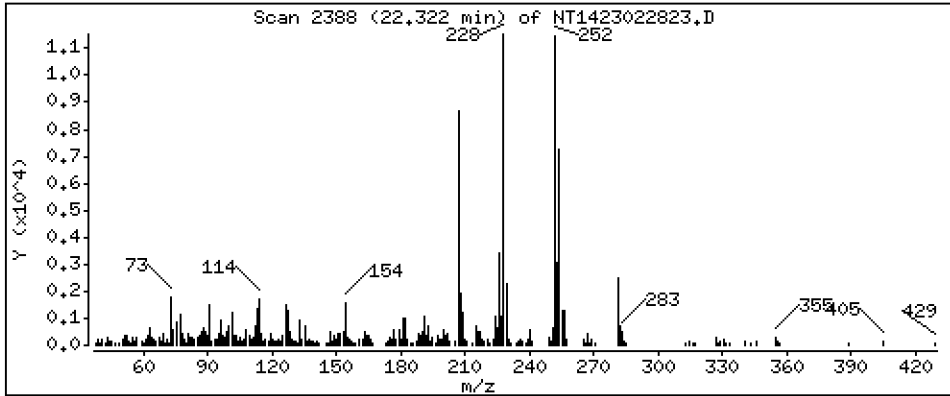
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

70 3,3'-Dichlorobenzidine

Concentration: 0,7330 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

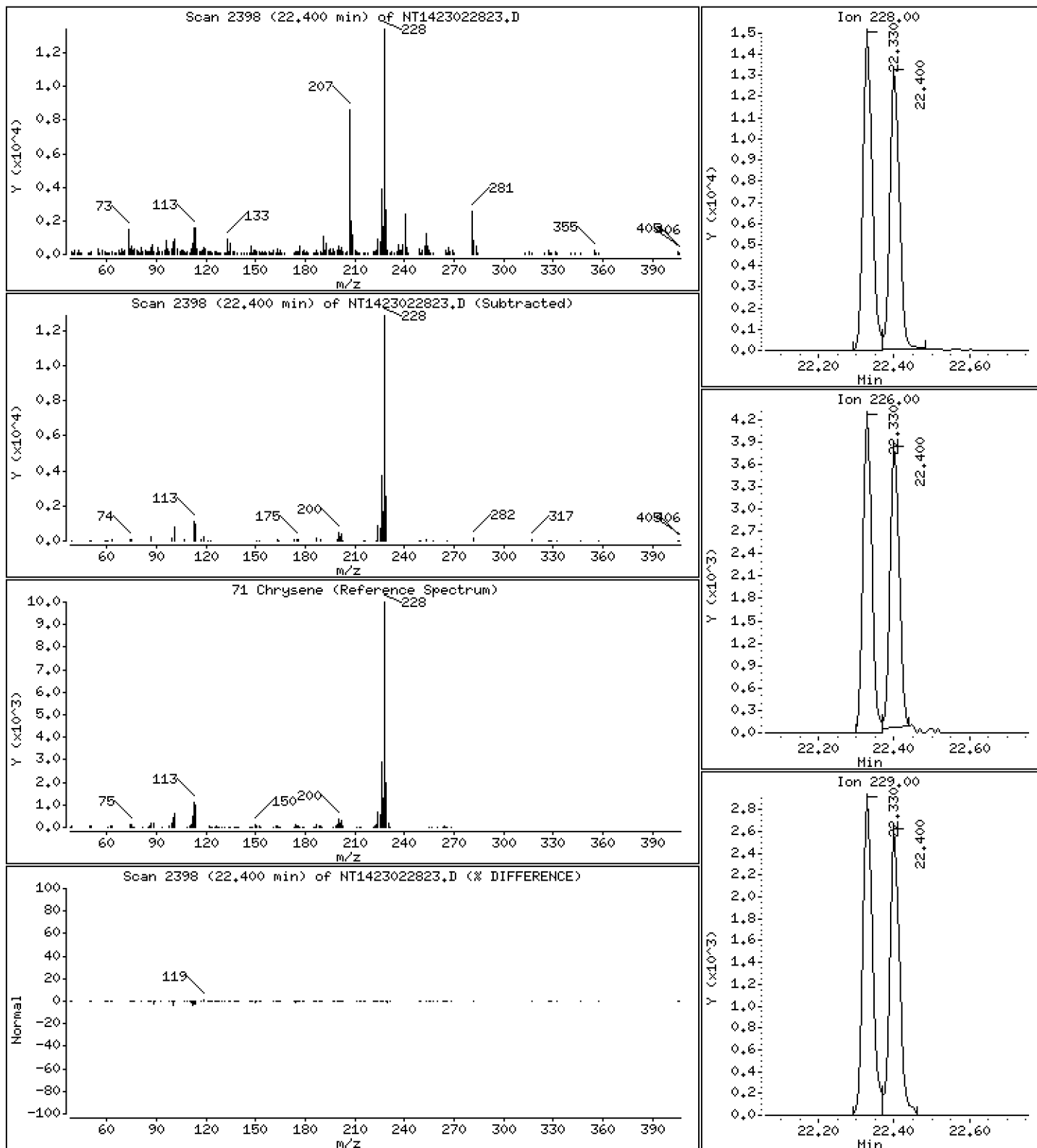
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 0,2153 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

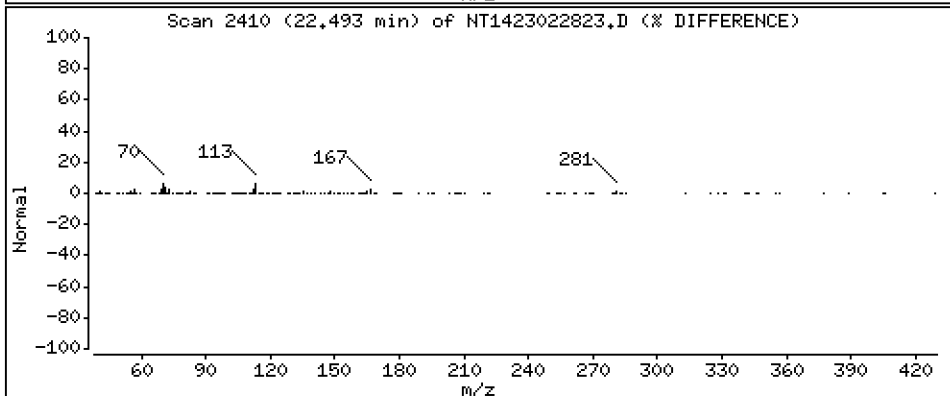
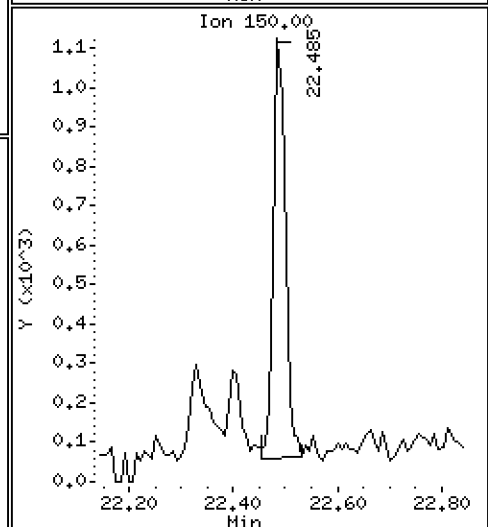
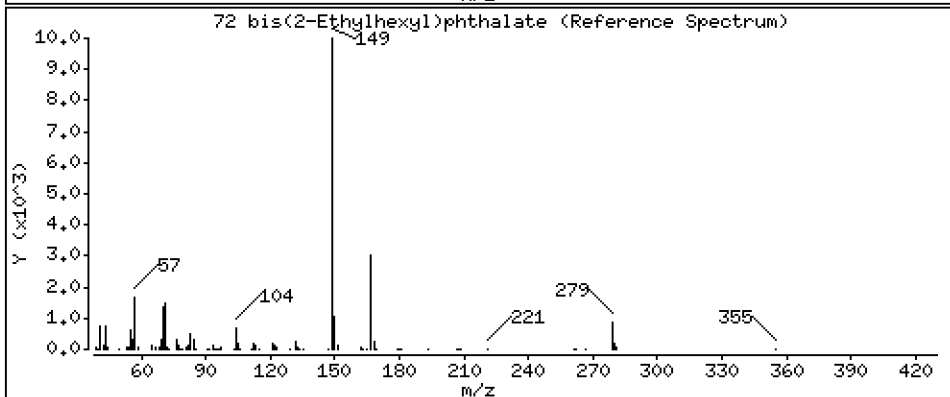
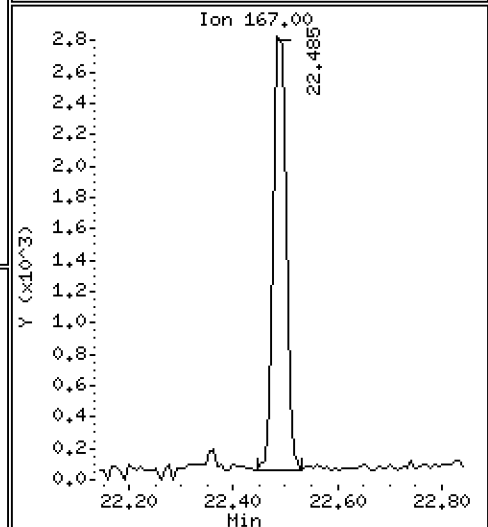
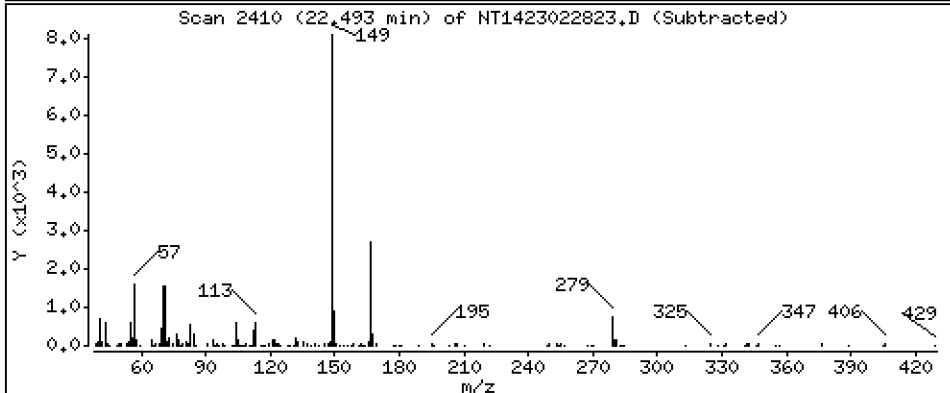
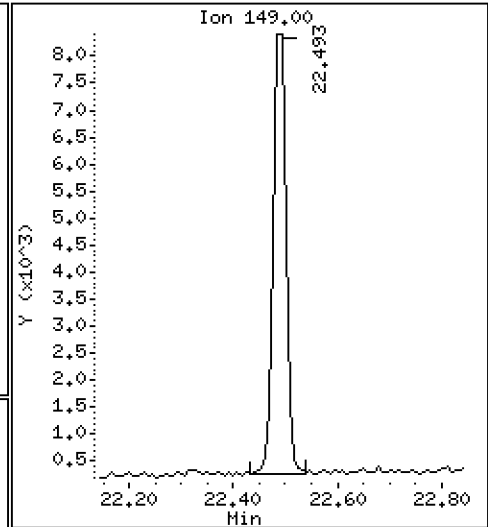
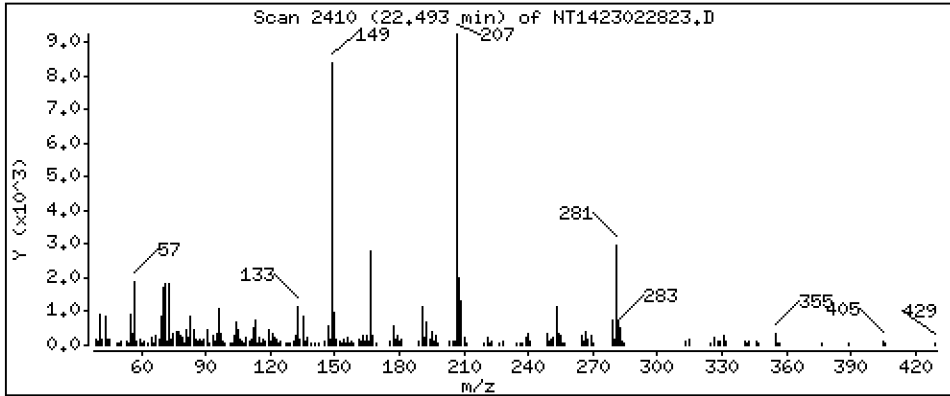
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 0,1802 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

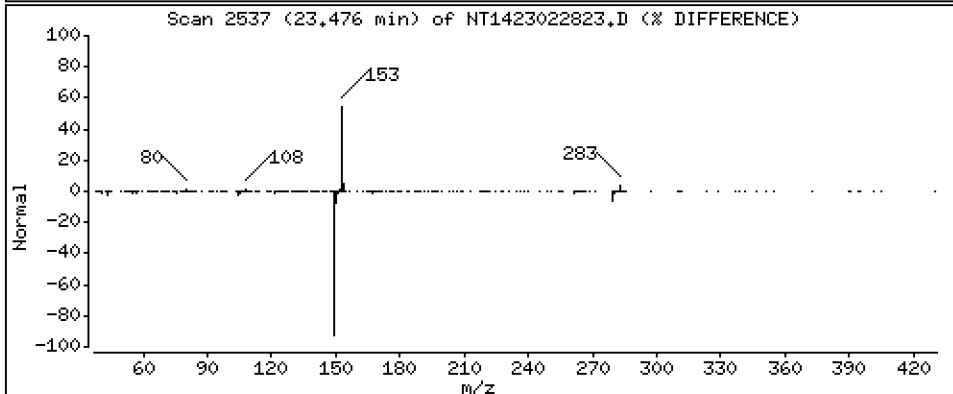
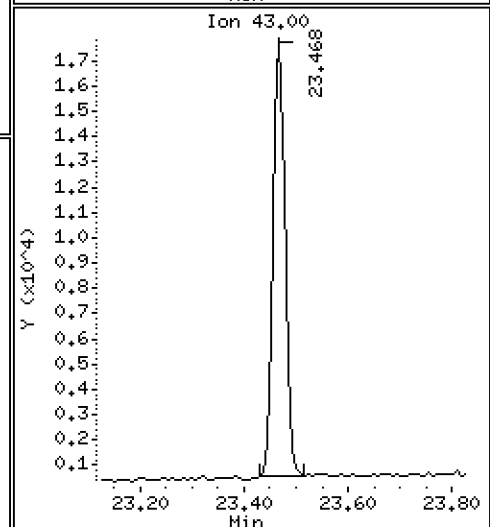
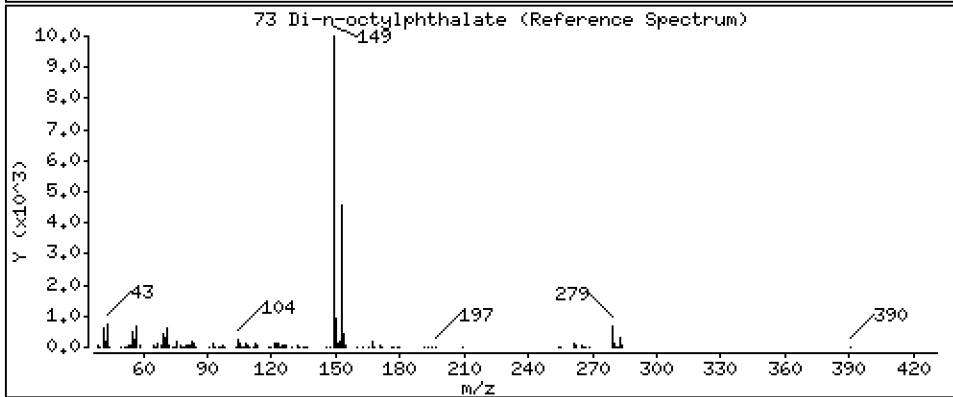
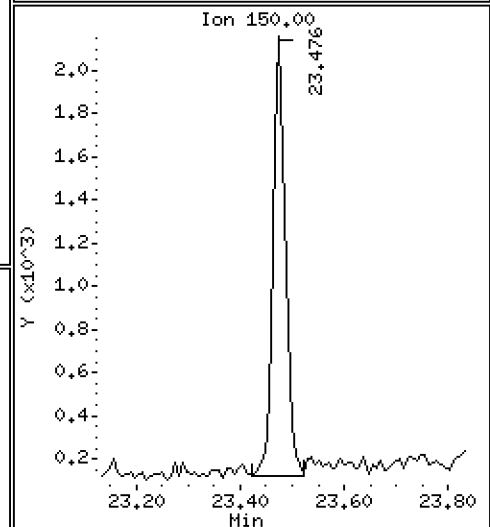
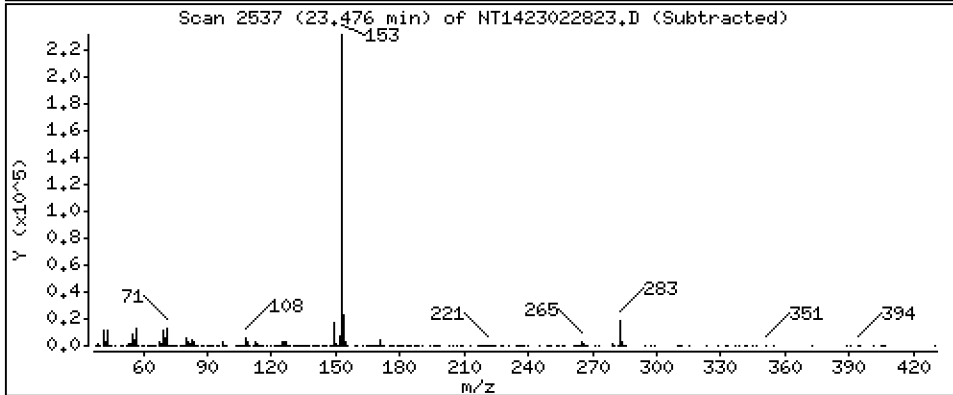
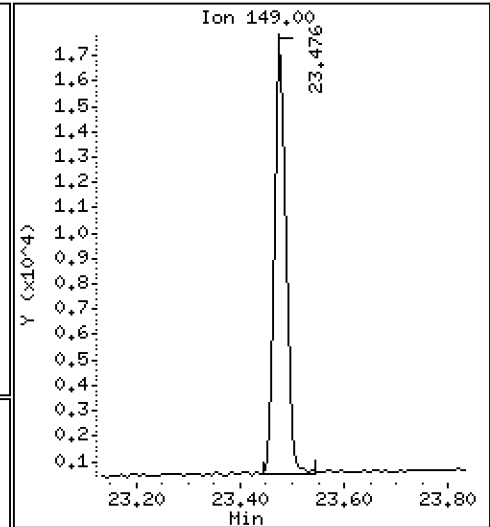
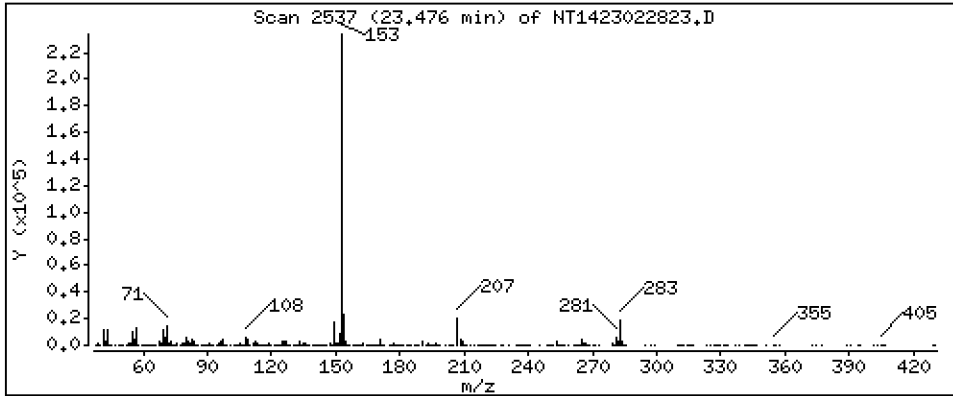
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 0,2023 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

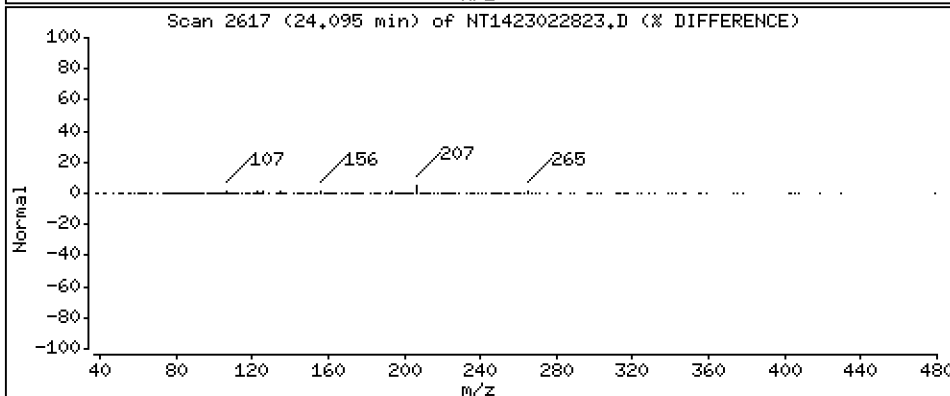
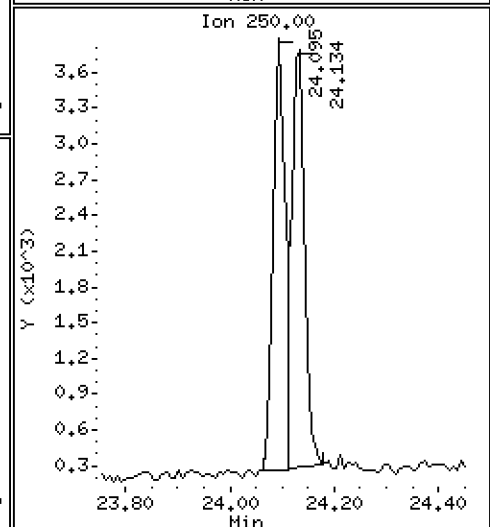
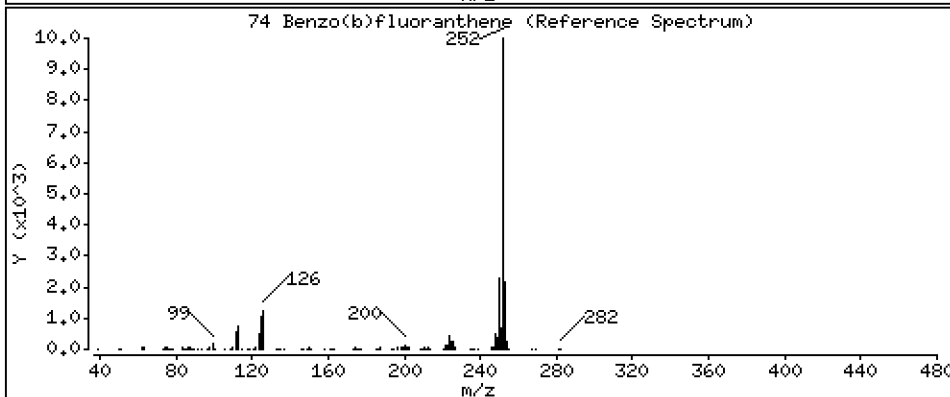
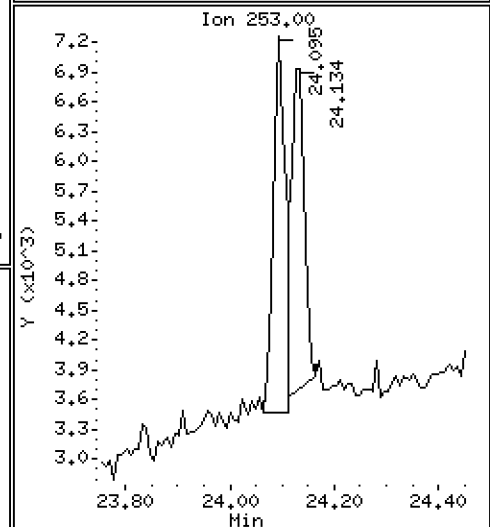
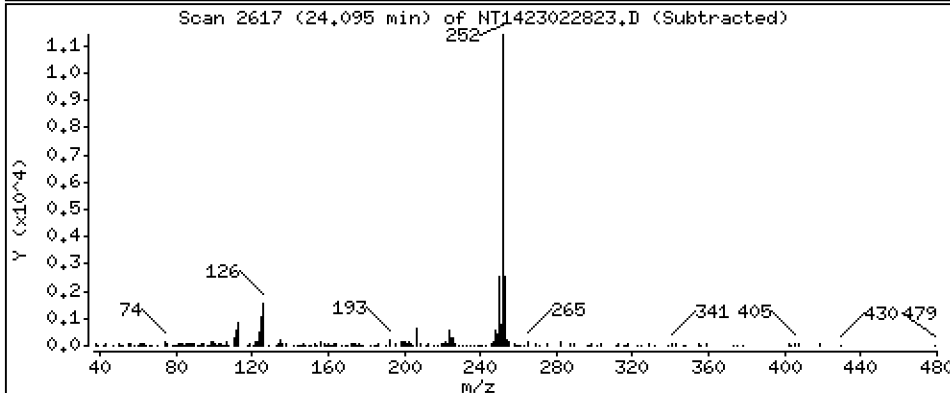
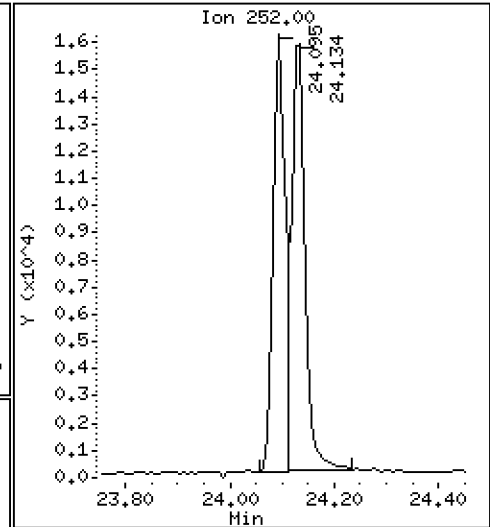
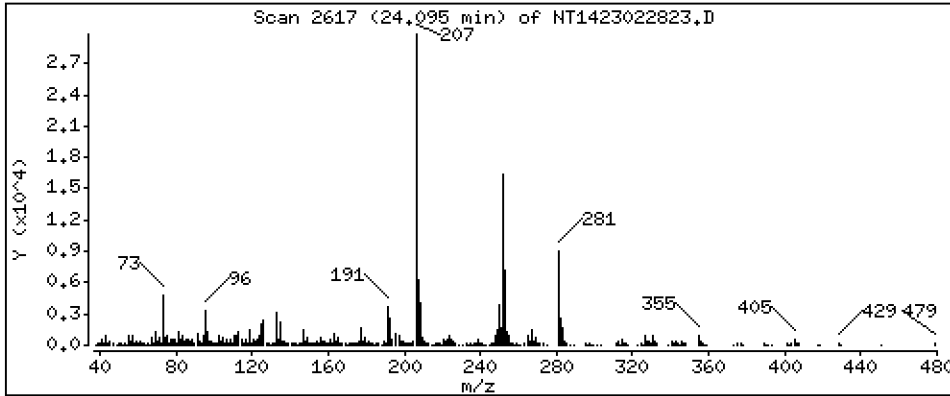
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 0,1956 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

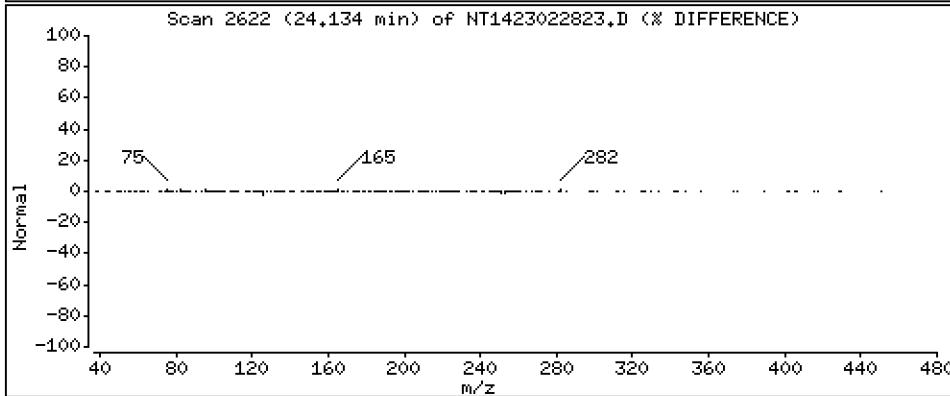
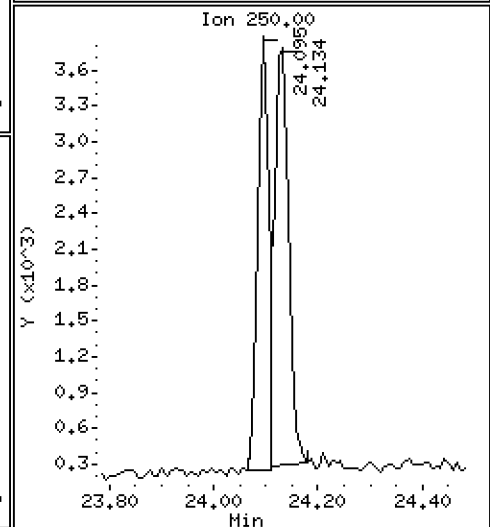
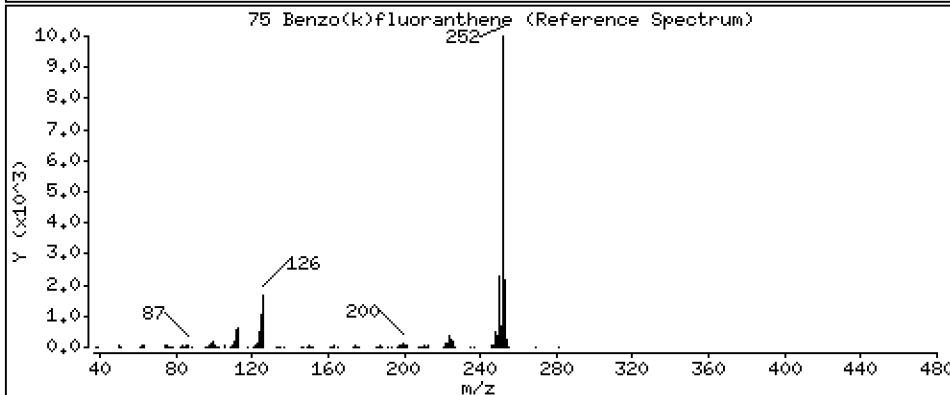
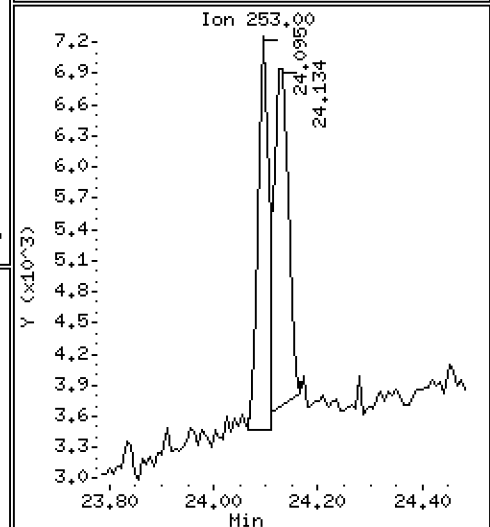
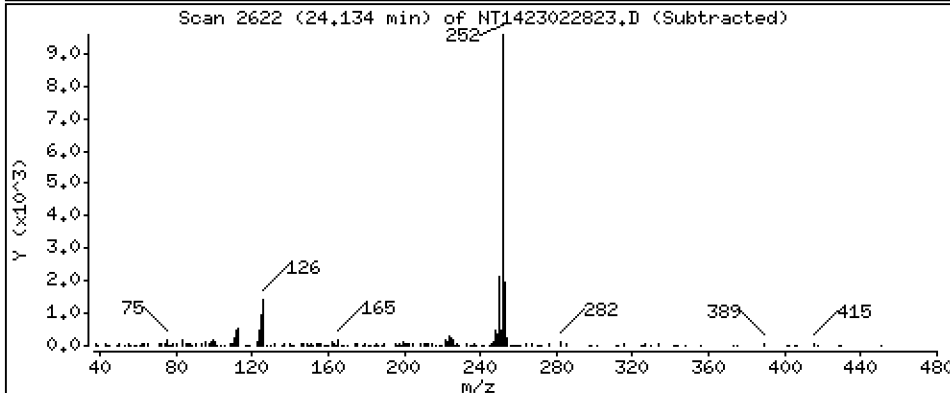
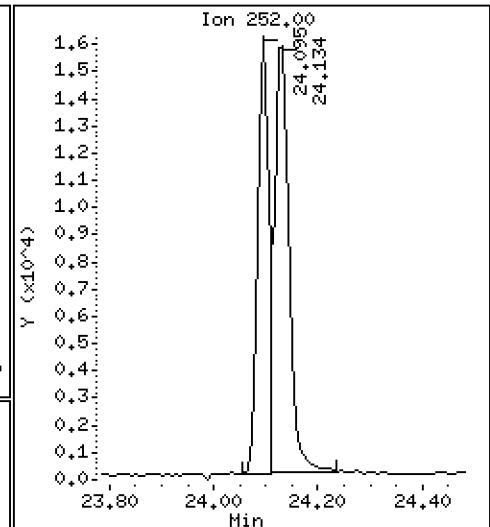
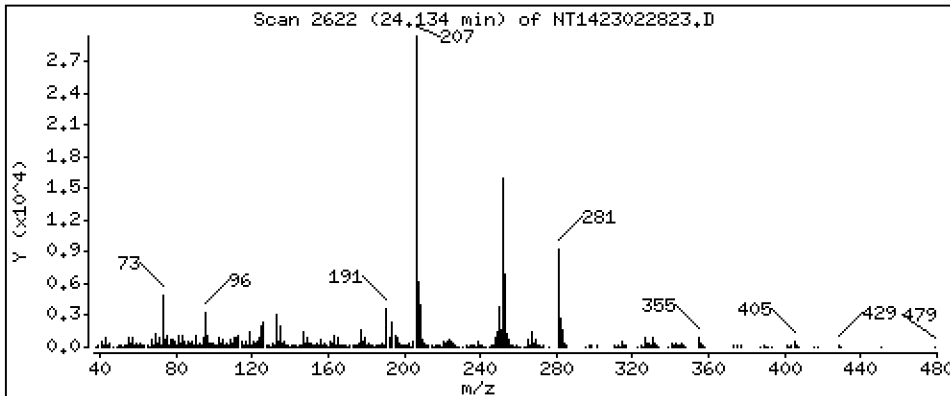
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 0,2209 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

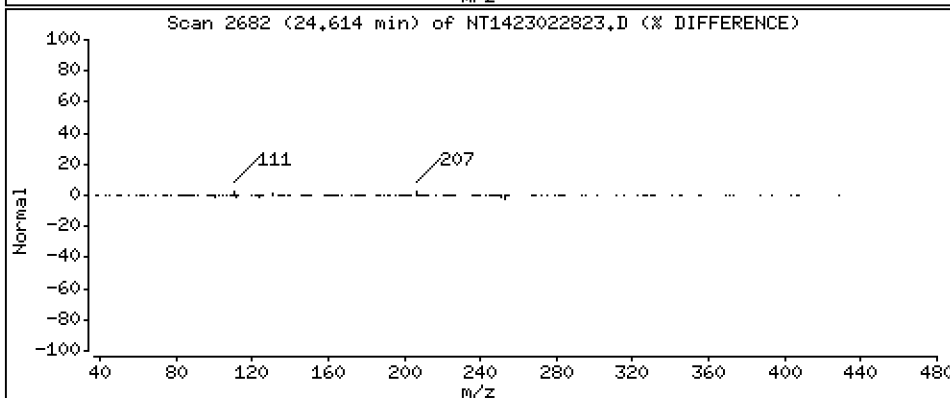
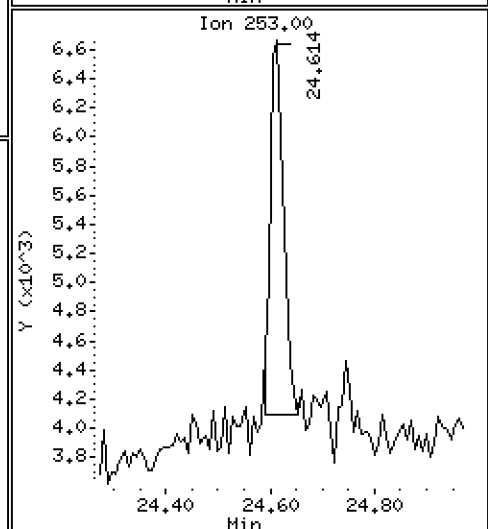
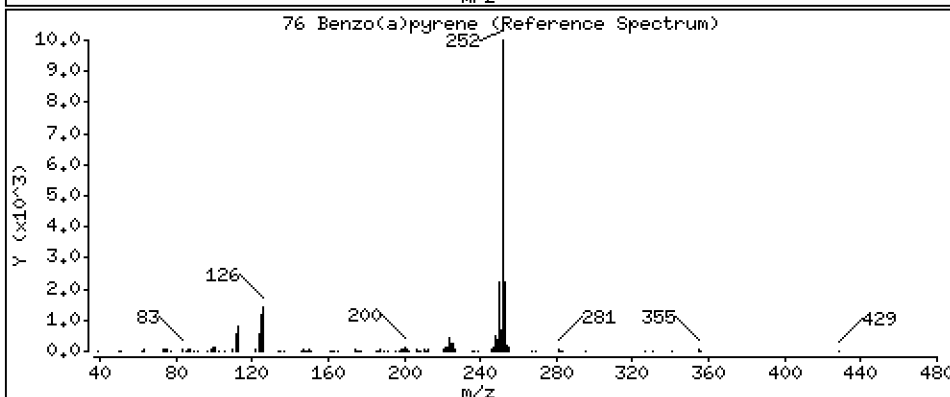
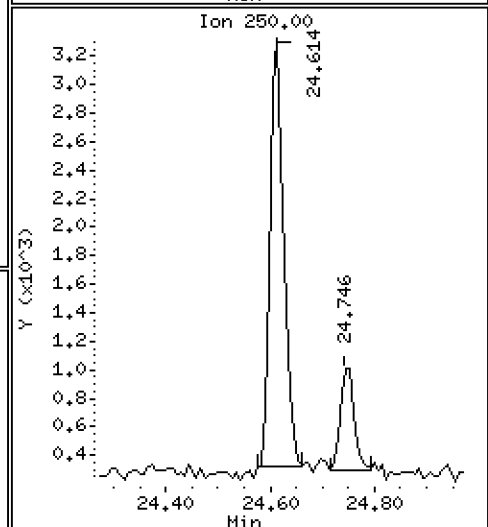
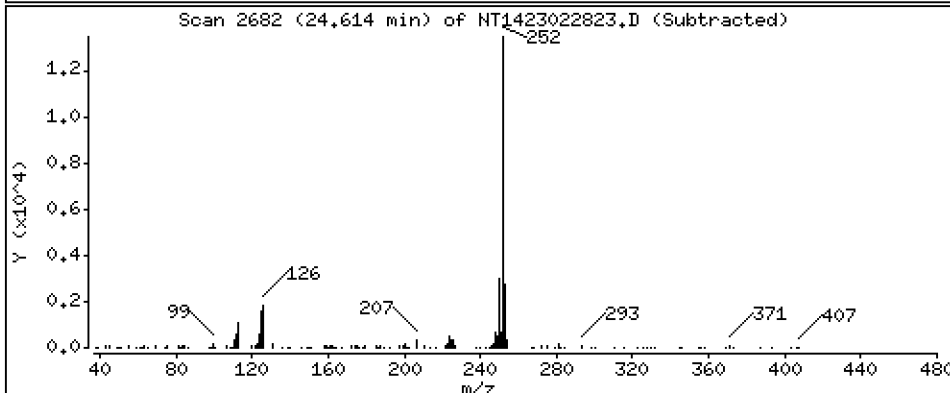
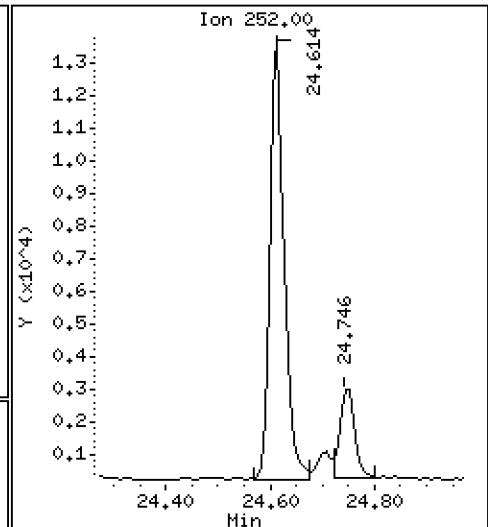
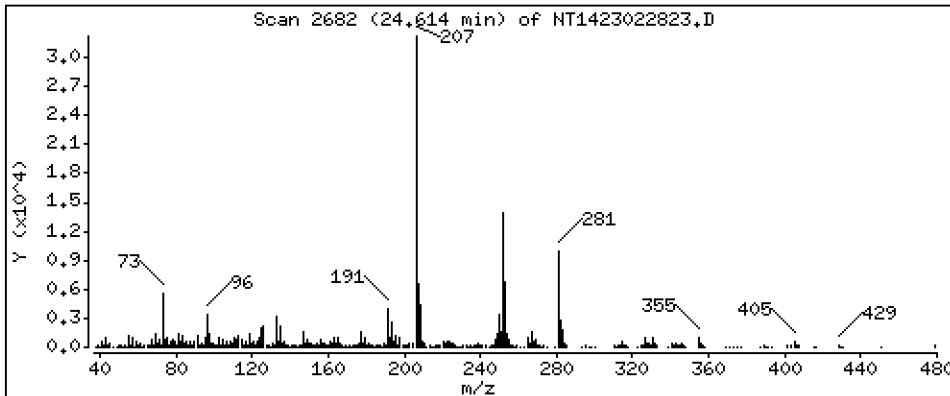
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 0,2207 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

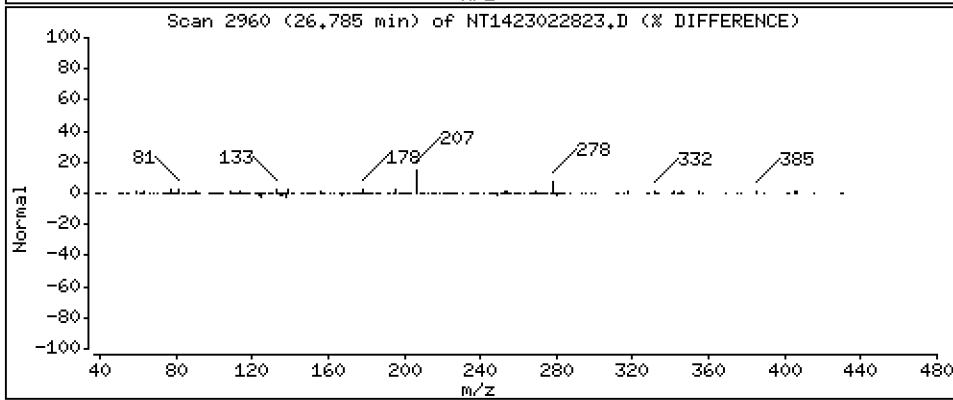
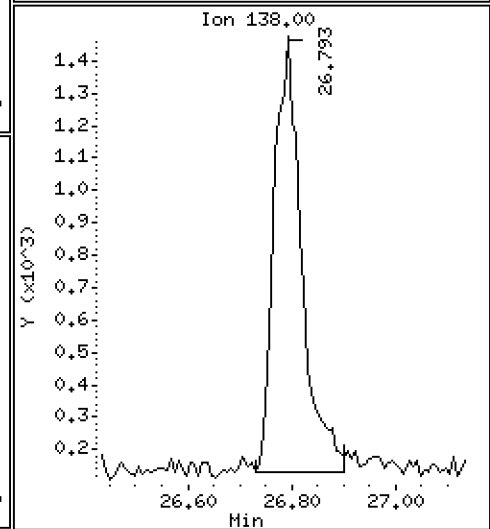
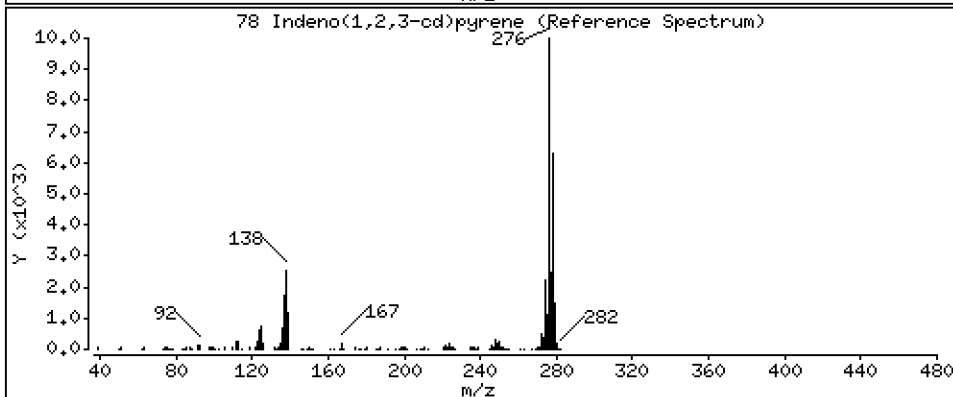
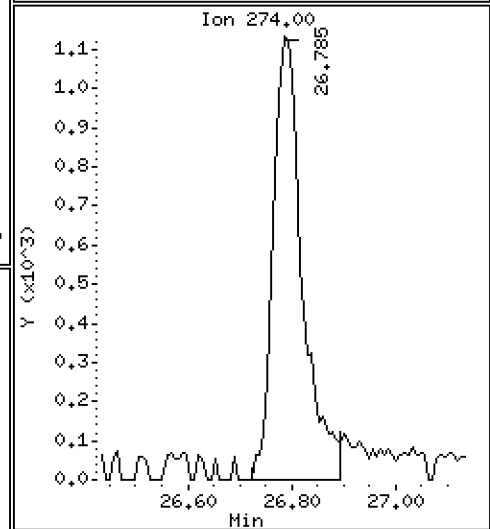
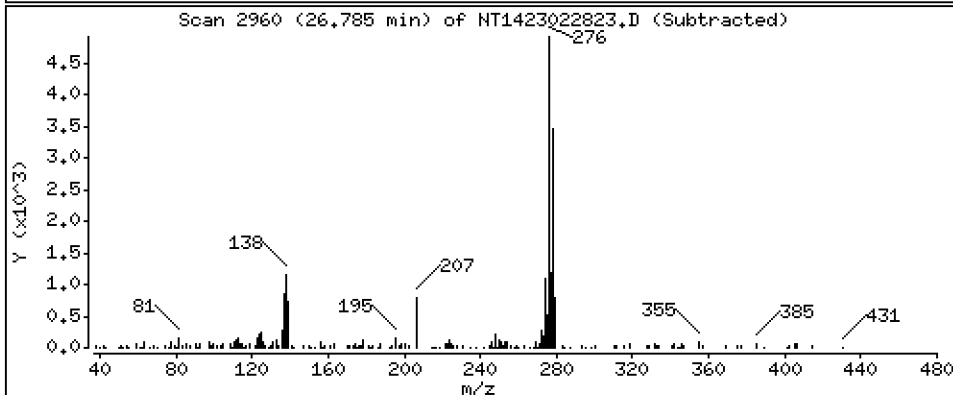
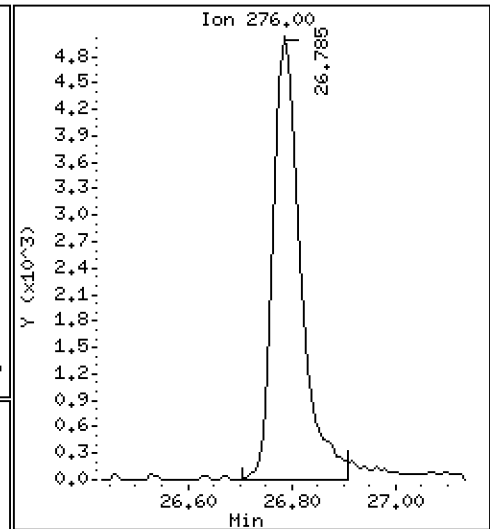
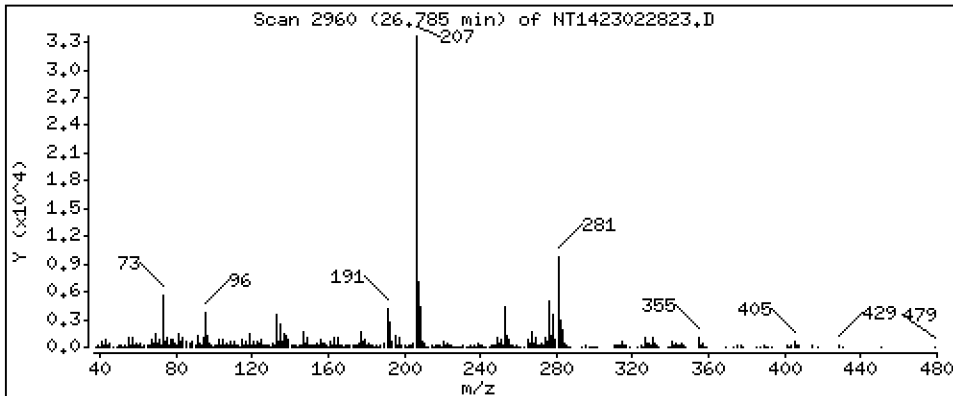
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 0,1309 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

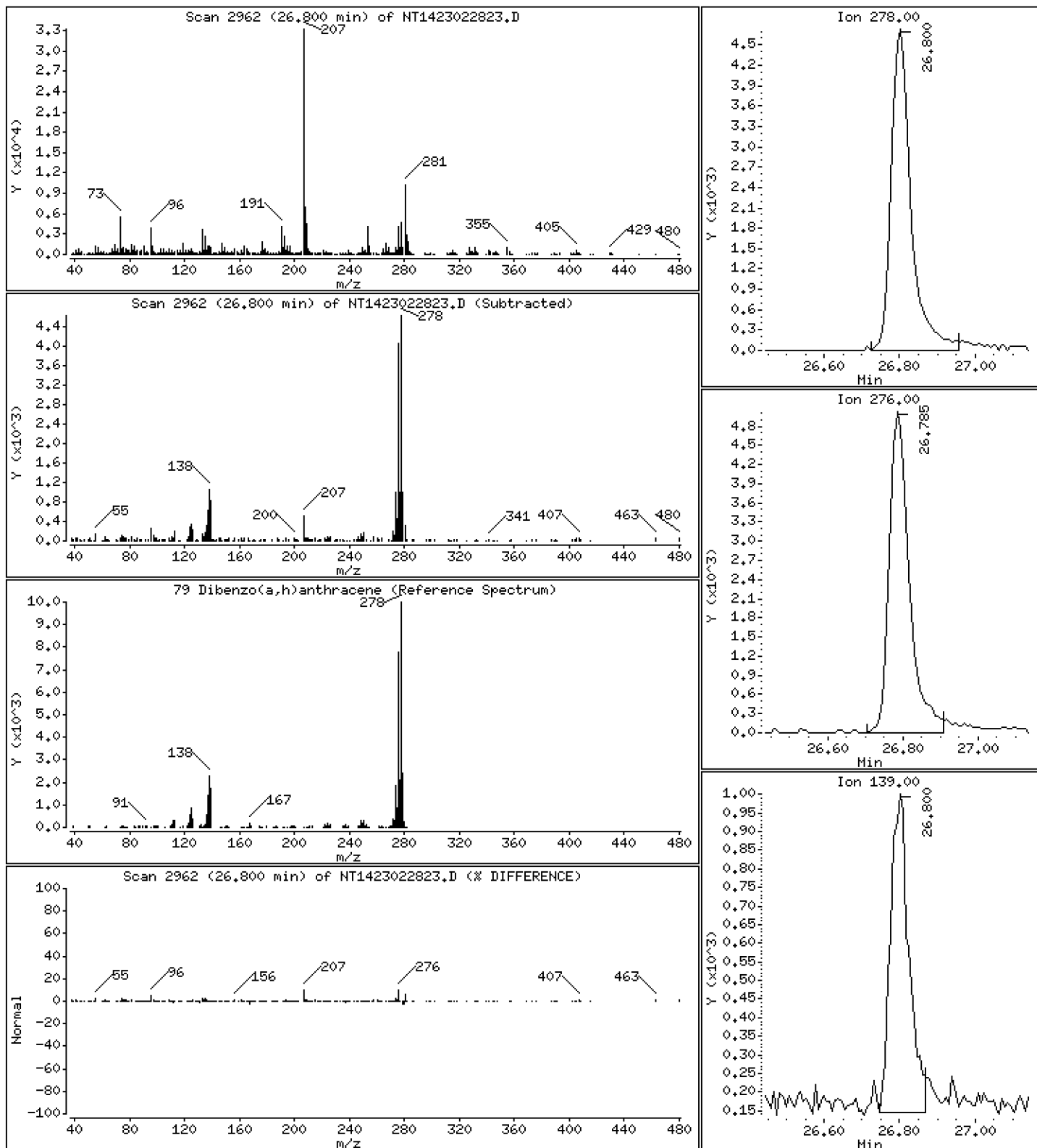
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 0,1429 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

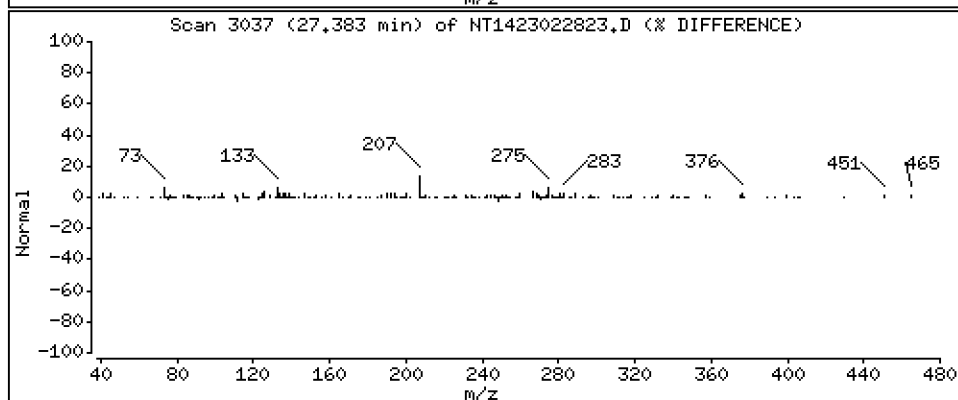
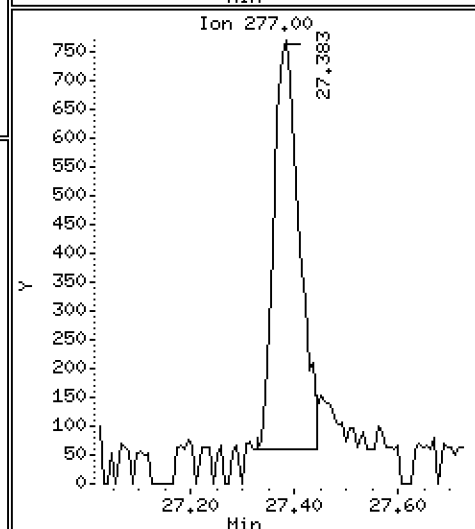
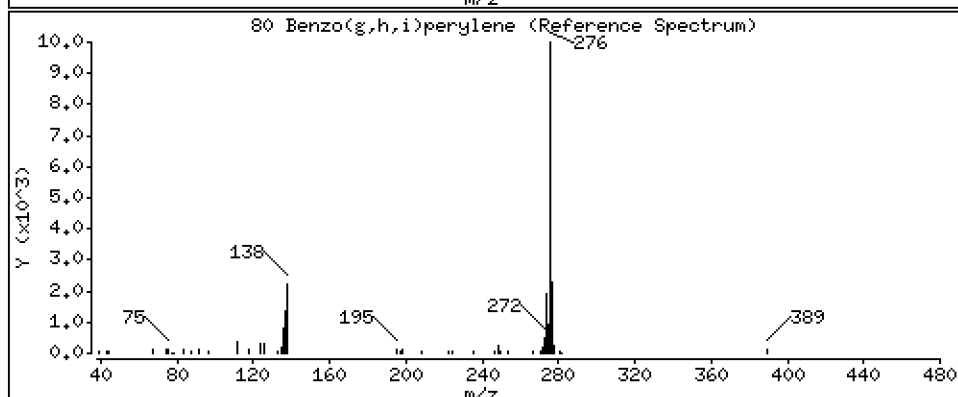
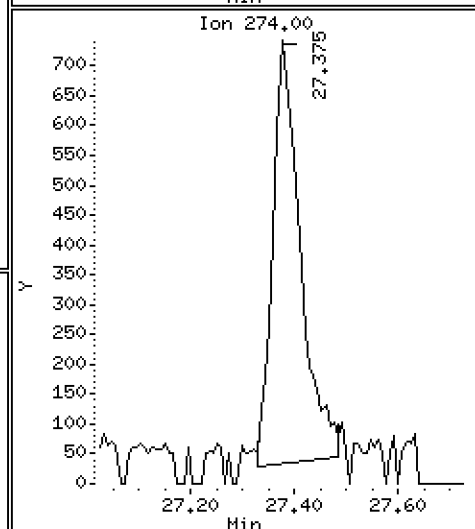
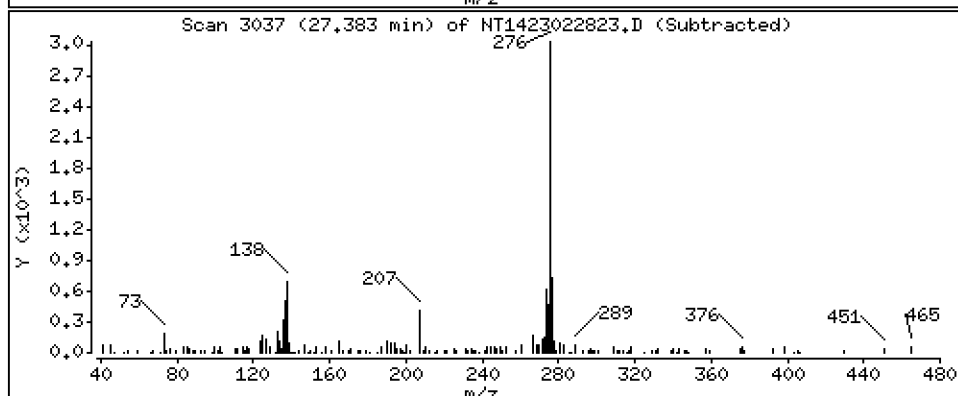
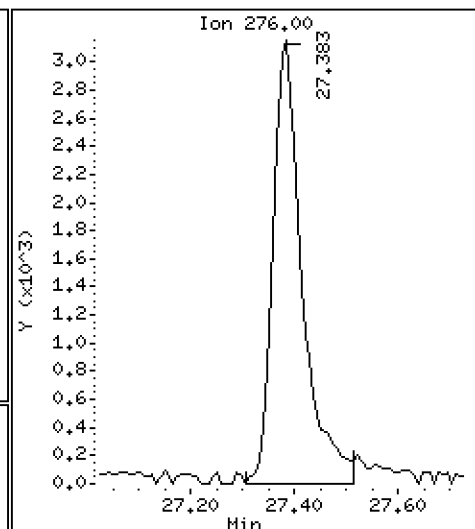
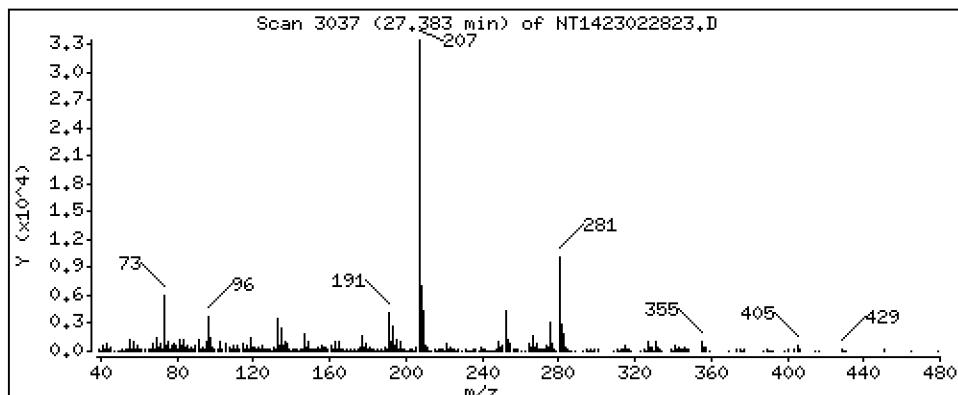
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 0,09952 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

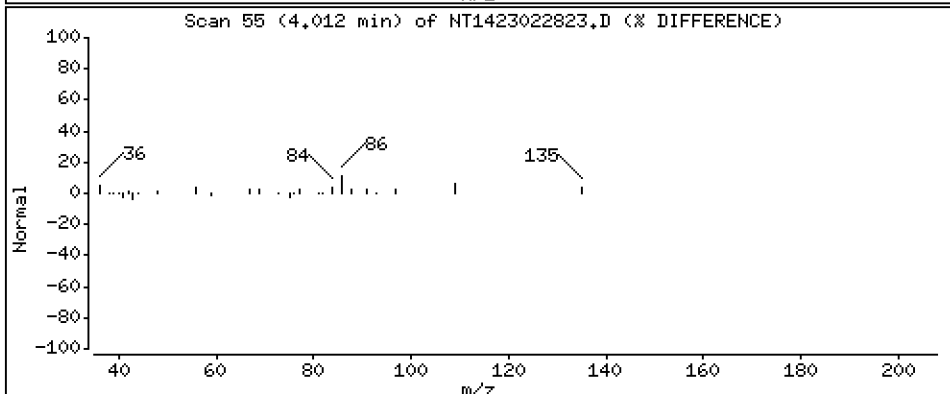
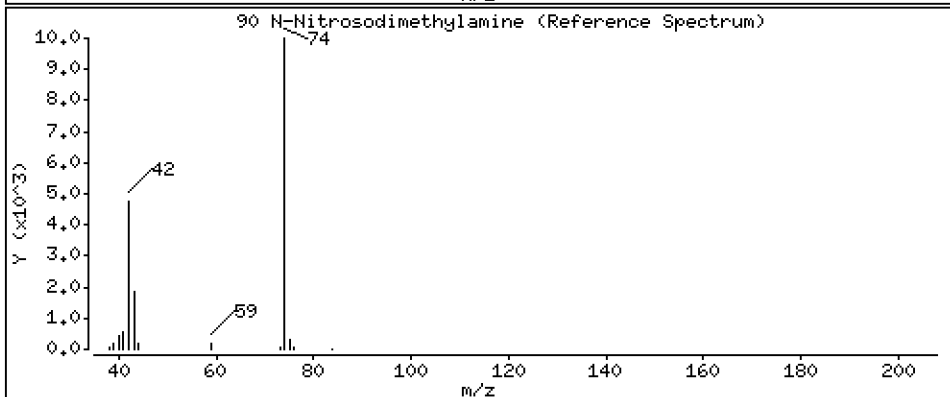
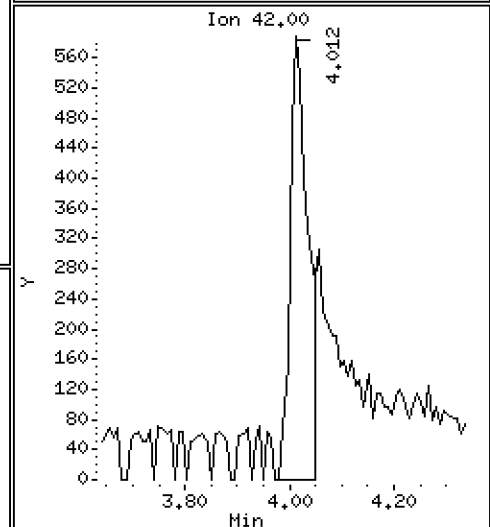
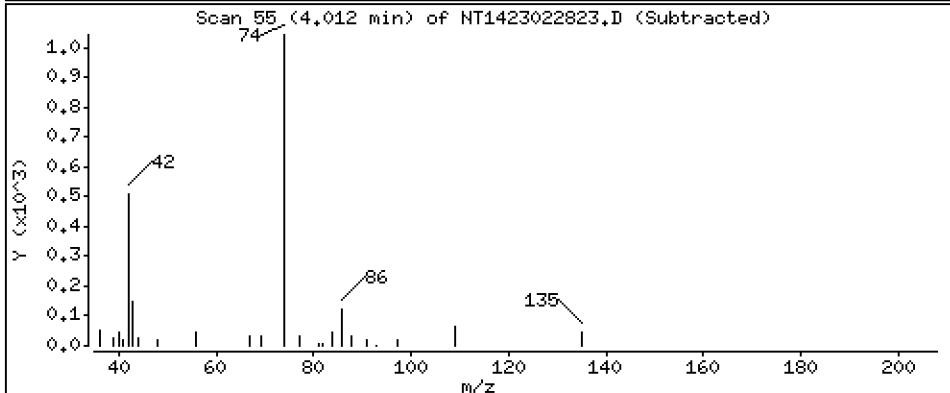
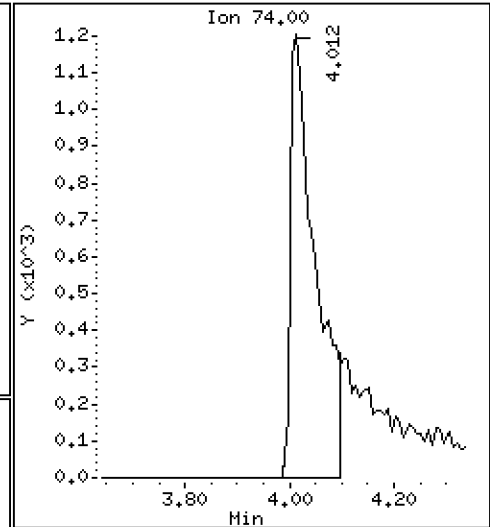
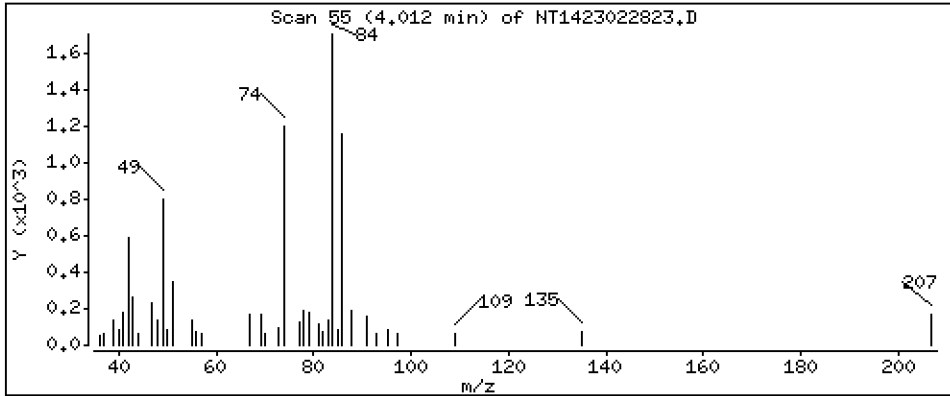
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

90 N-Nitrosodimethylamine

Concentration: 0,1735 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

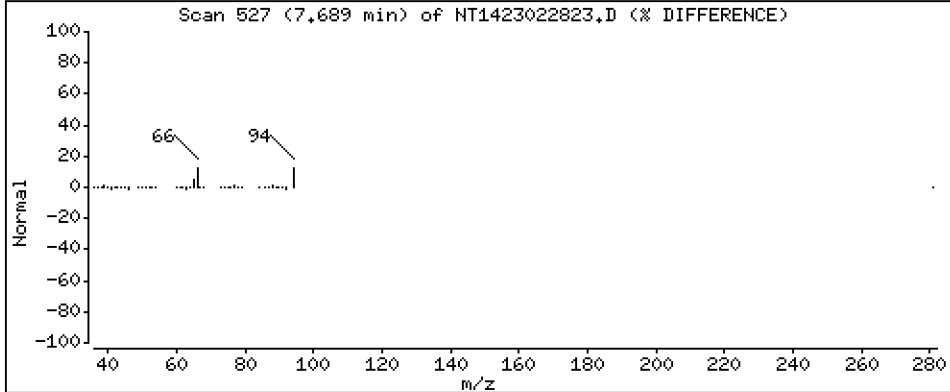
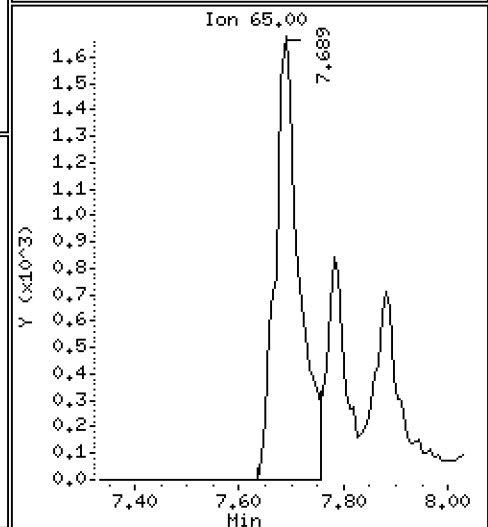
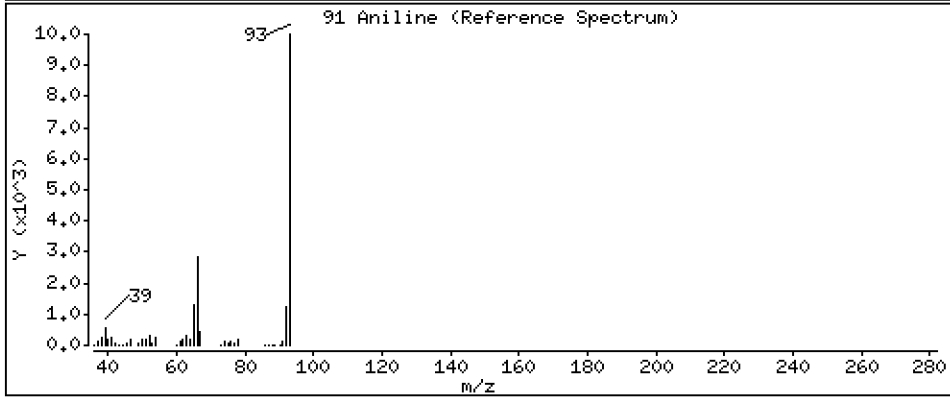
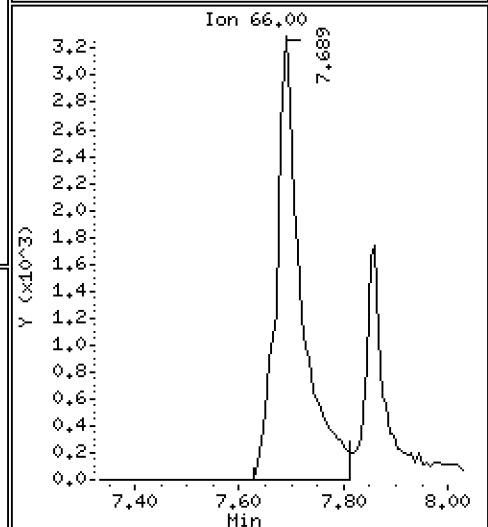
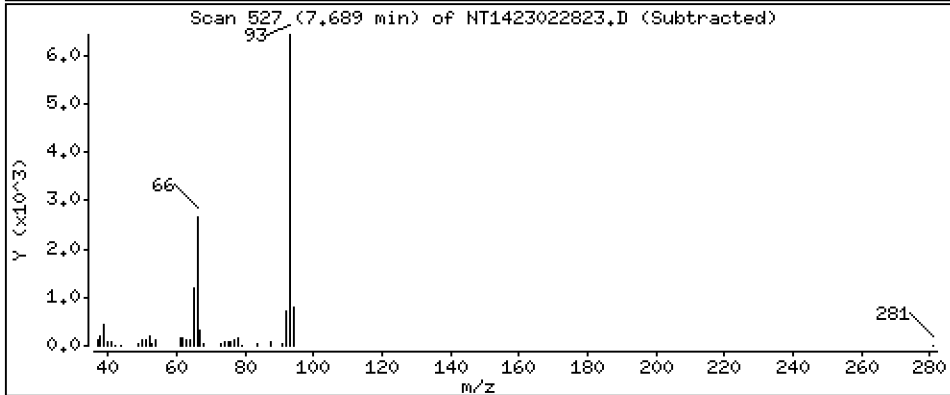
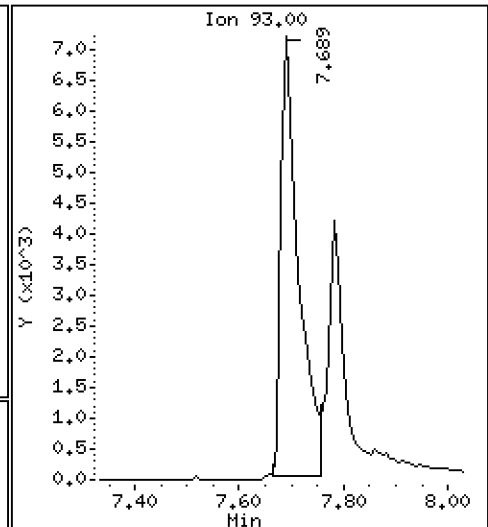
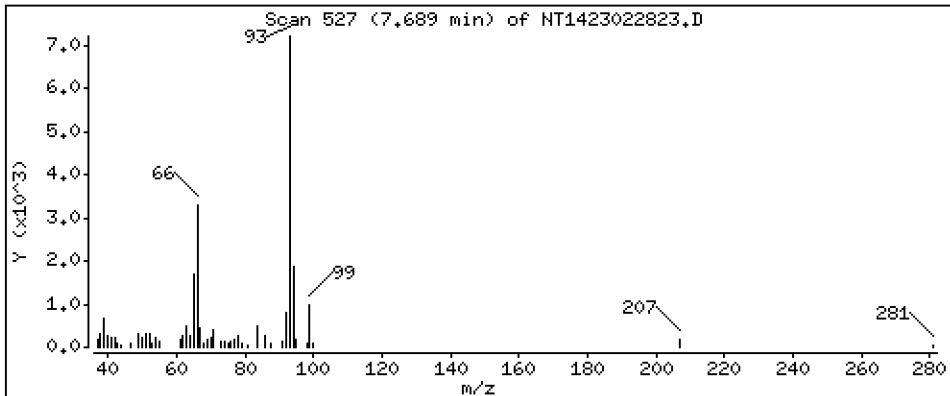
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

91 Aniline

Concentration: 0.3051 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

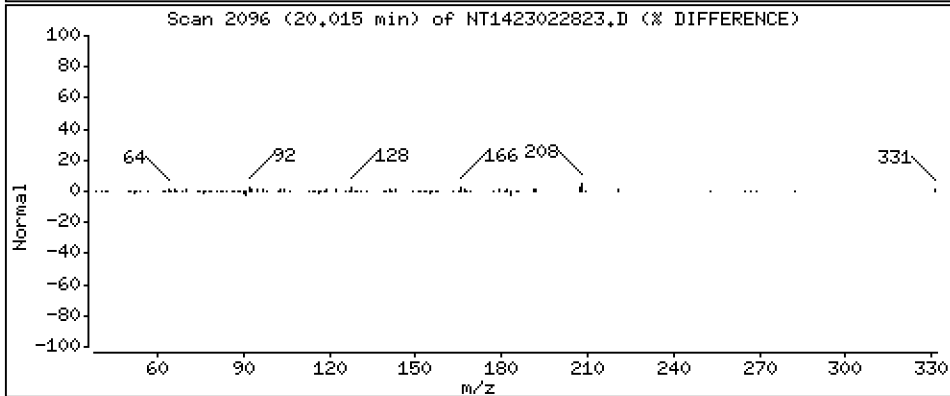
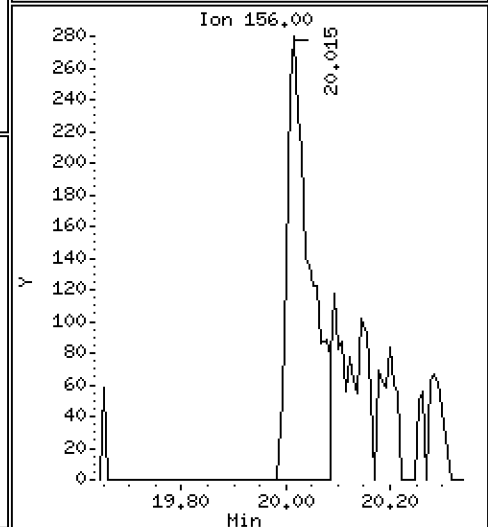
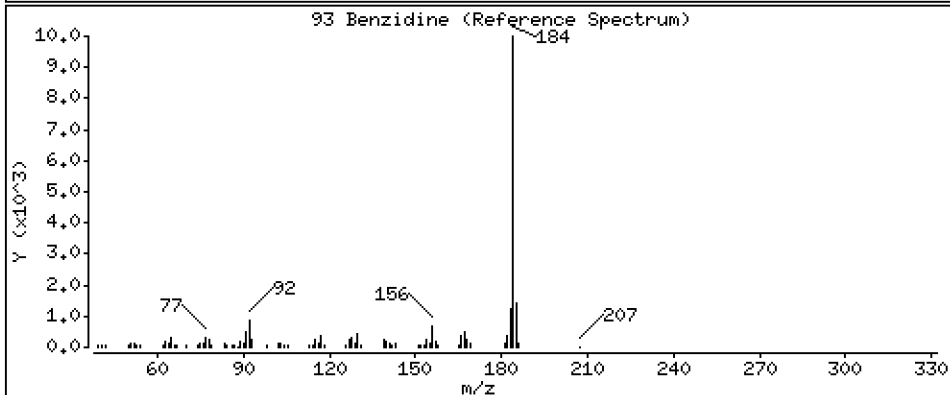
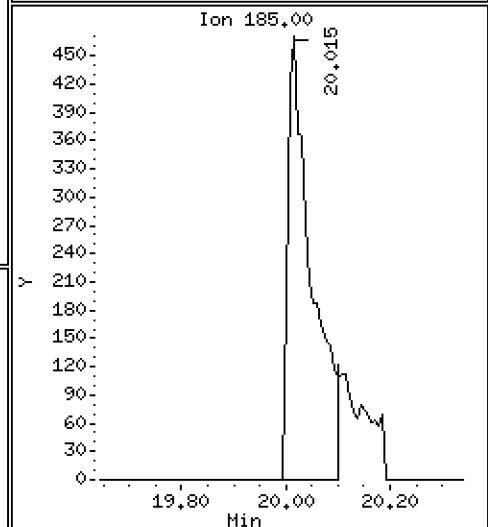
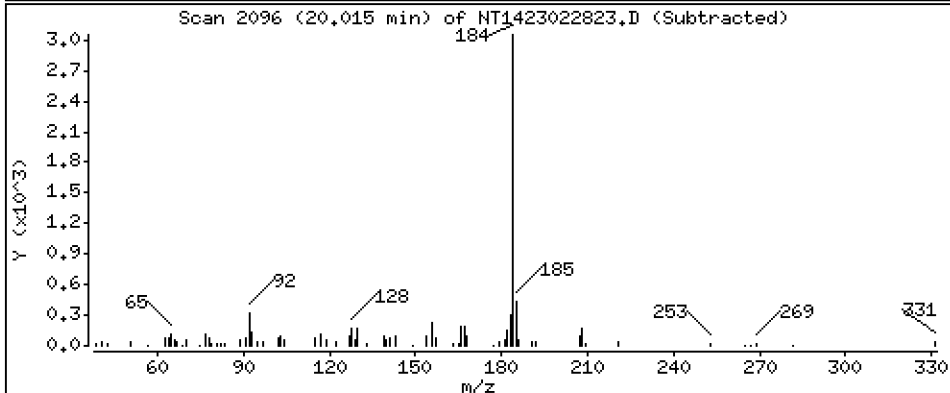
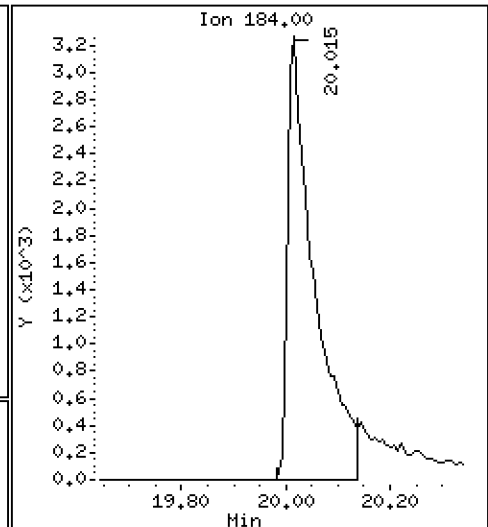
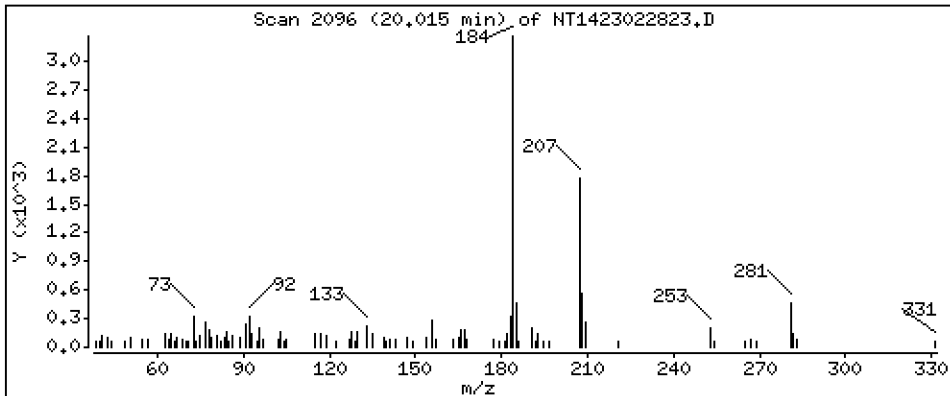
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

93 Benzidine

Concentration: 0,2301 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

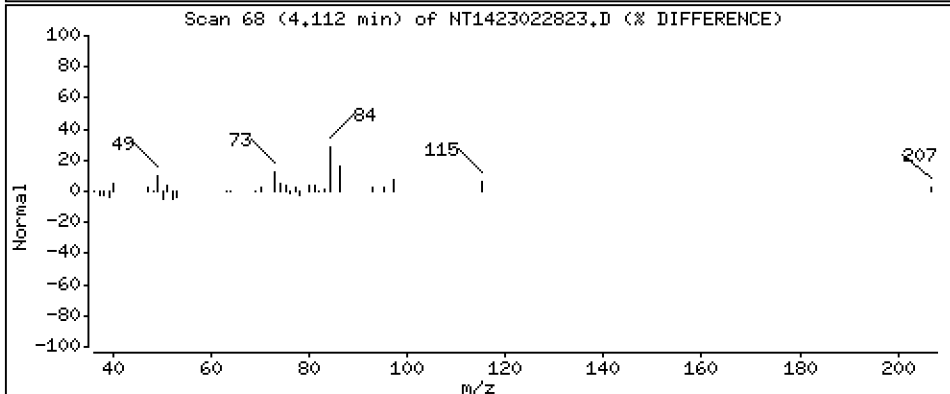
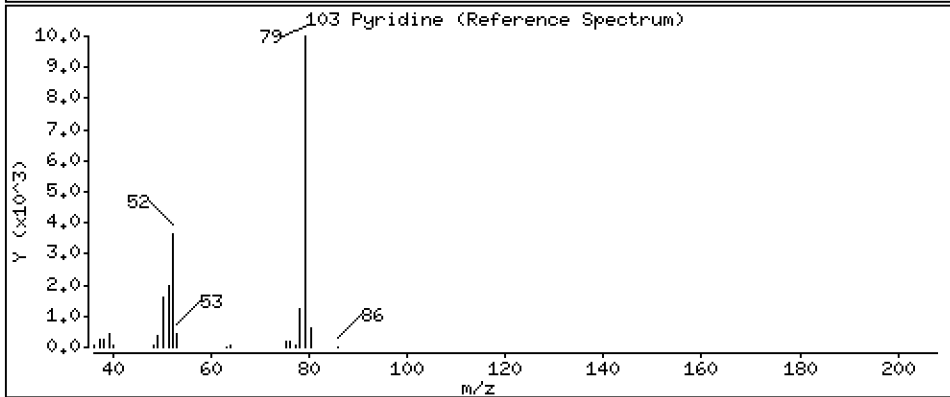
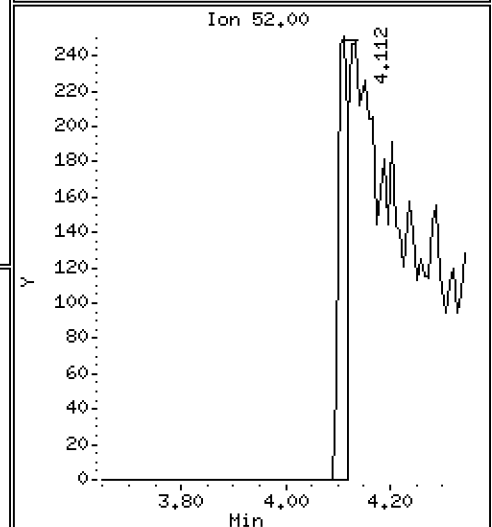
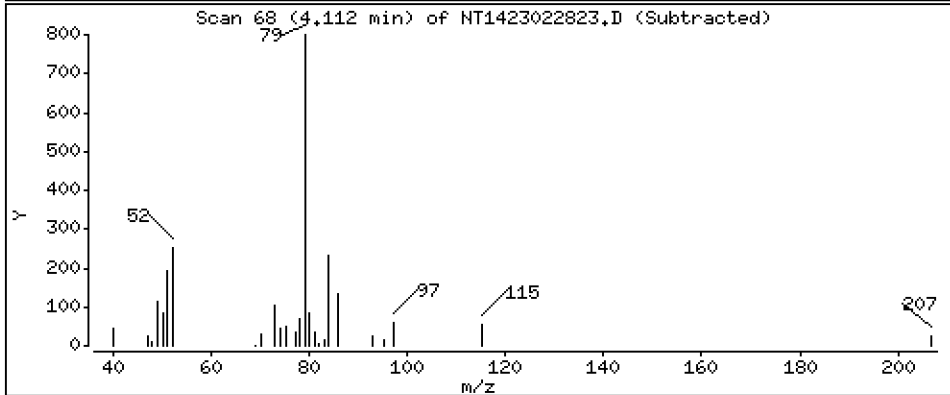
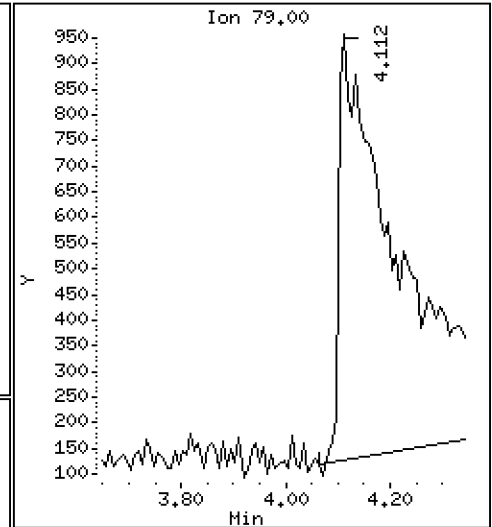
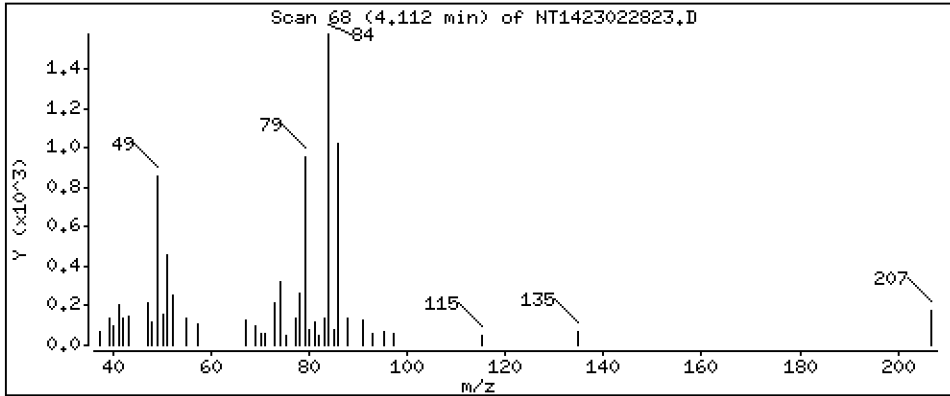
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

103 Pyridine

Concentration: 0,1253 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

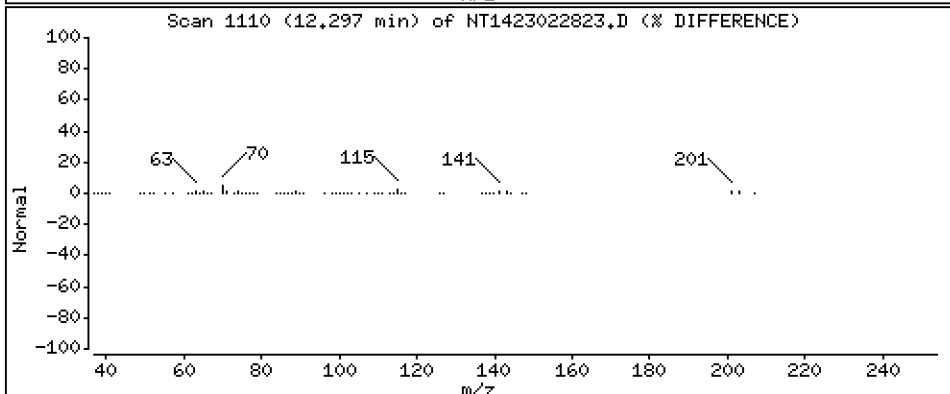
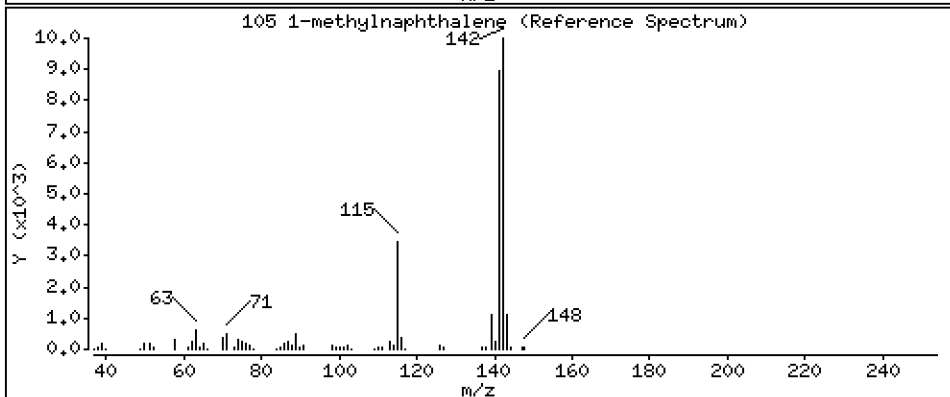
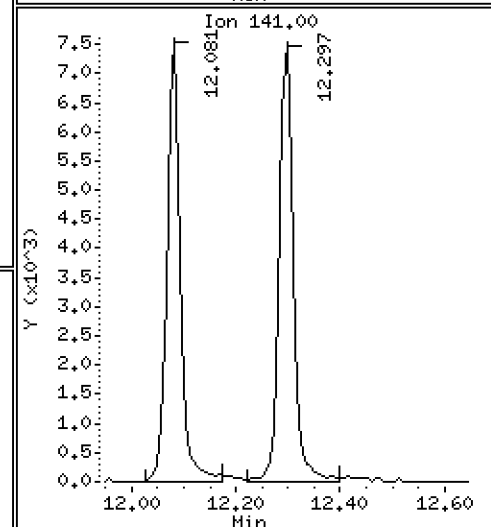
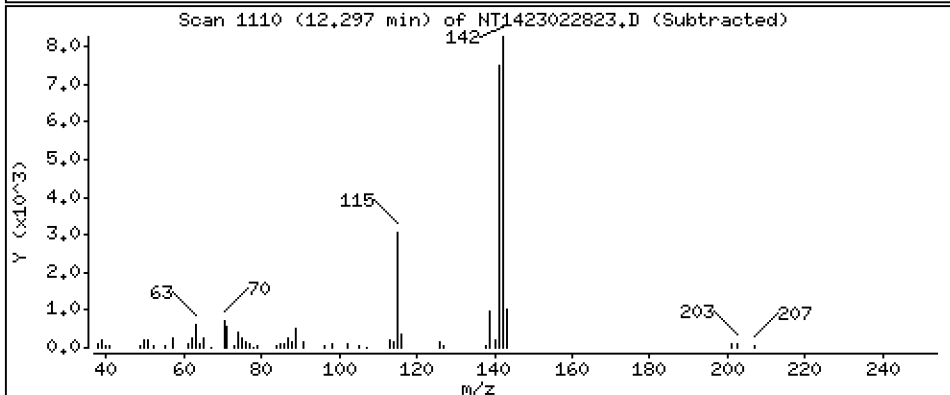
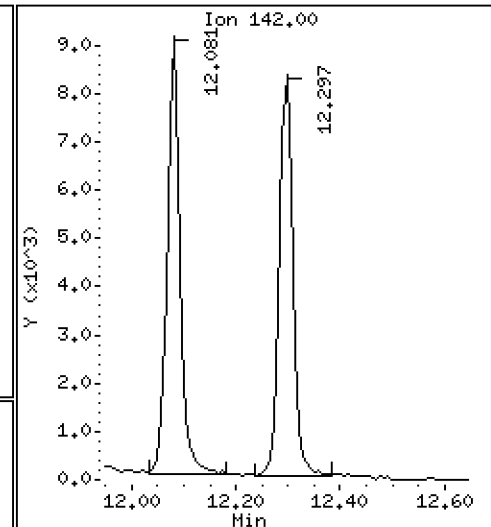
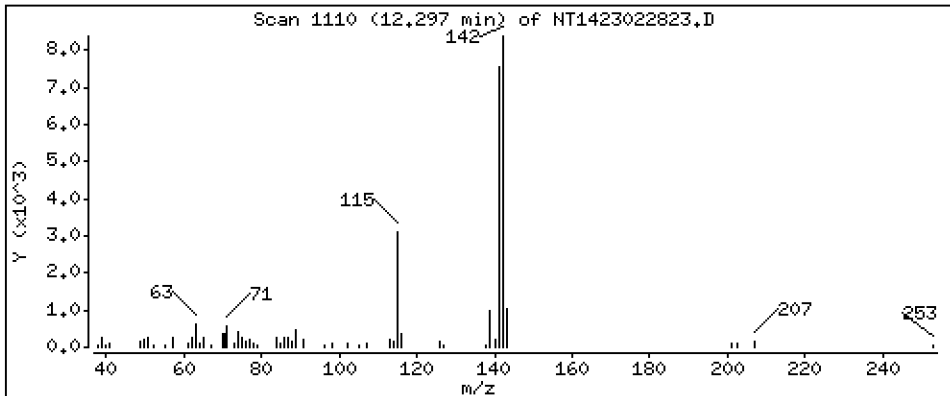
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 0,1951 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

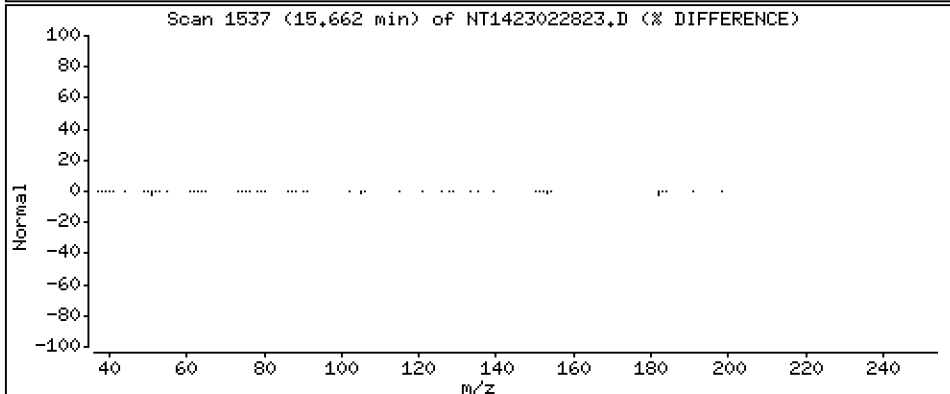
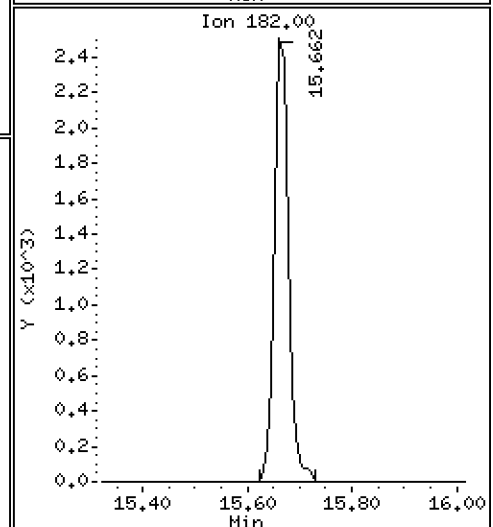
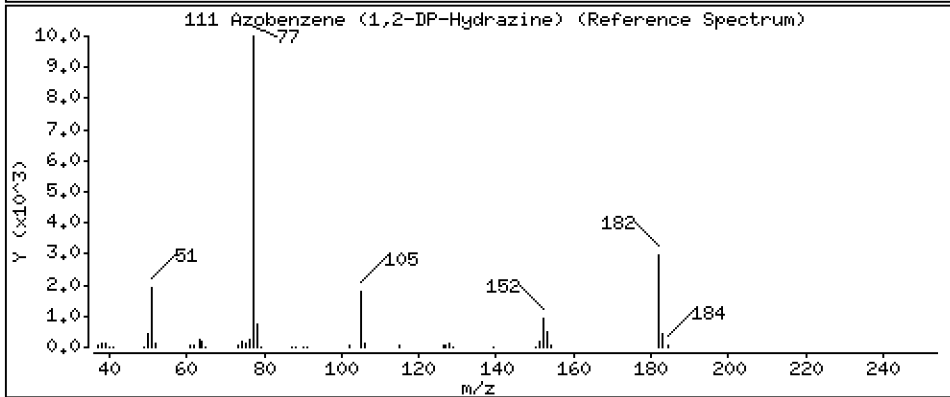
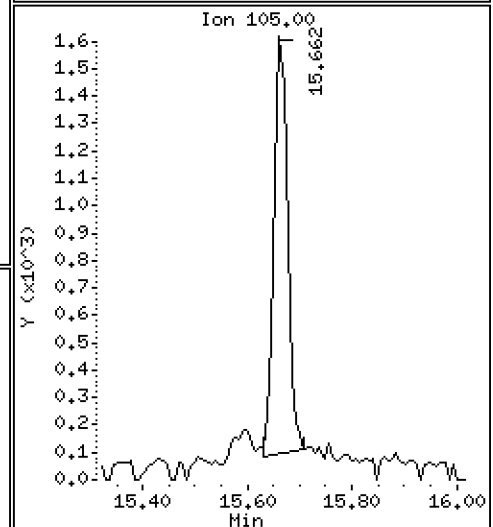
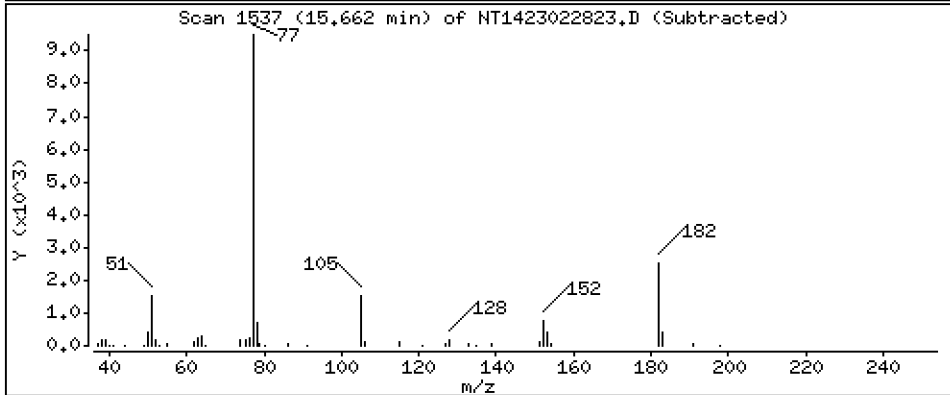
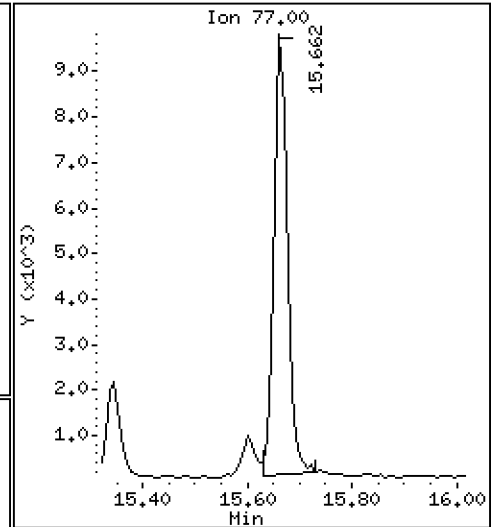
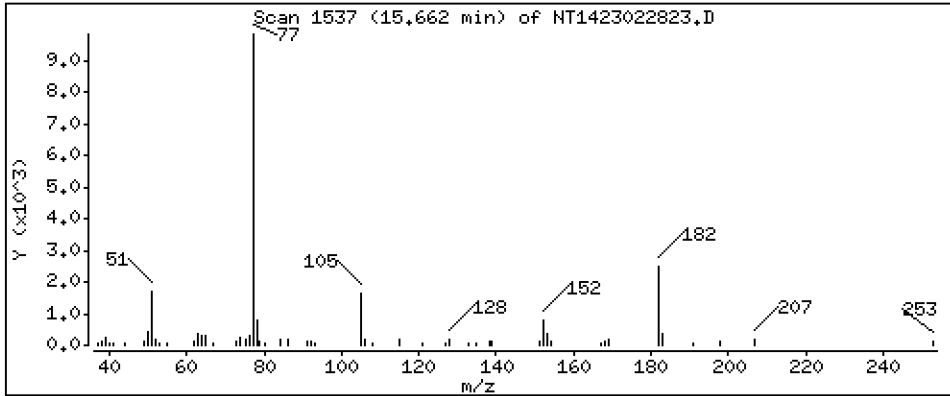
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 0,2082 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

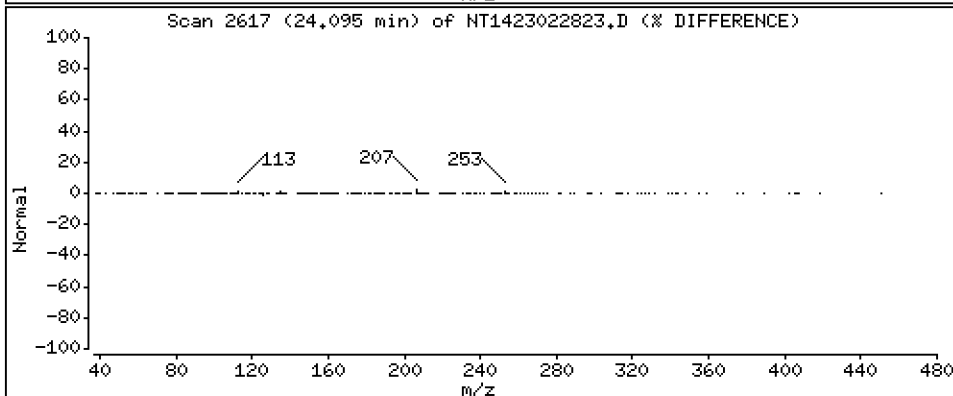
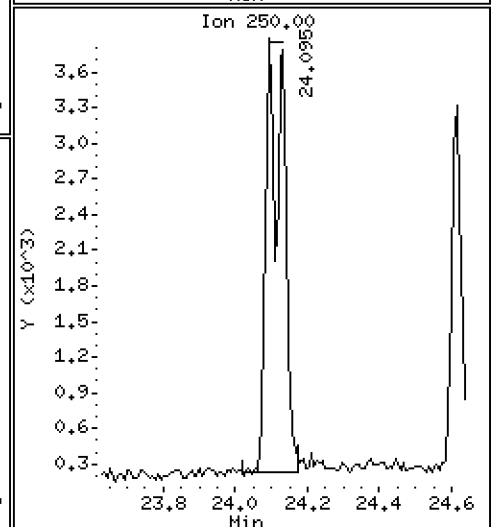
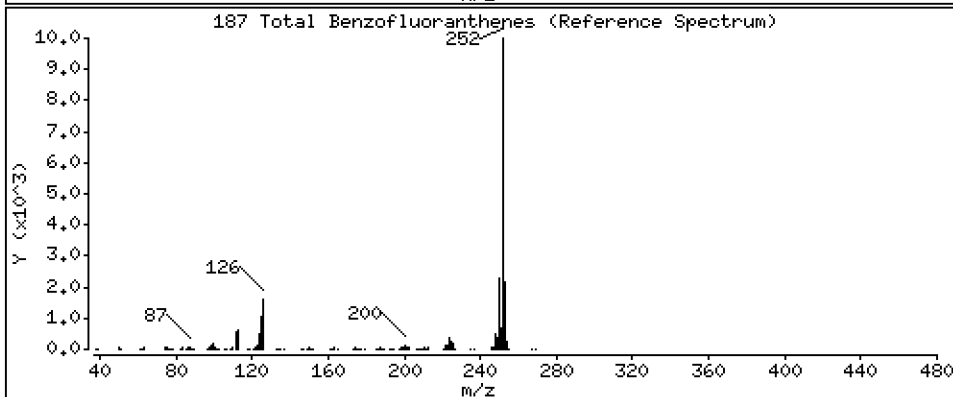
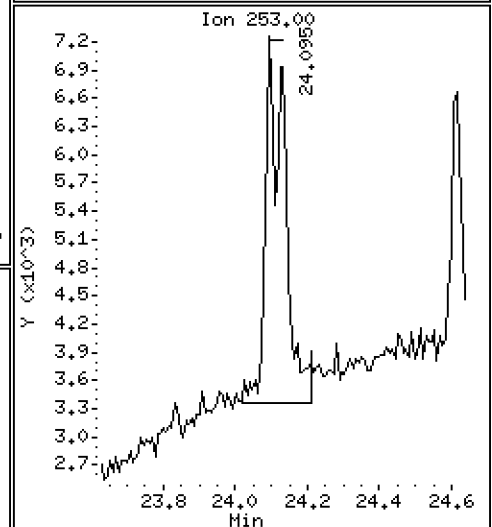
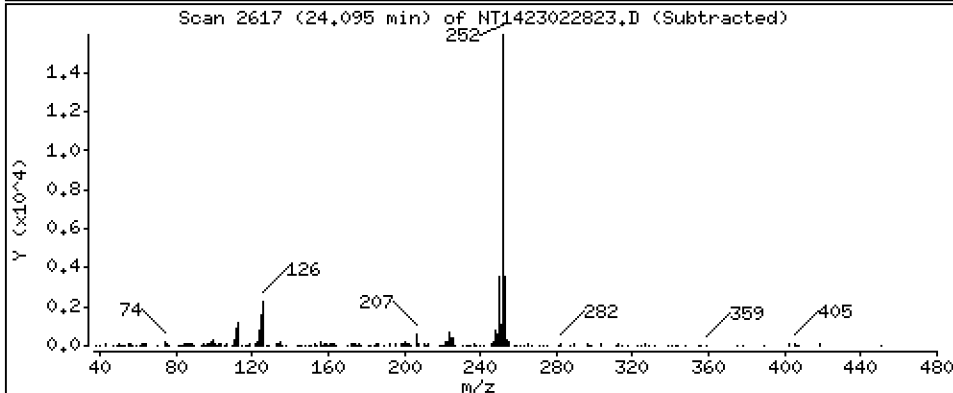
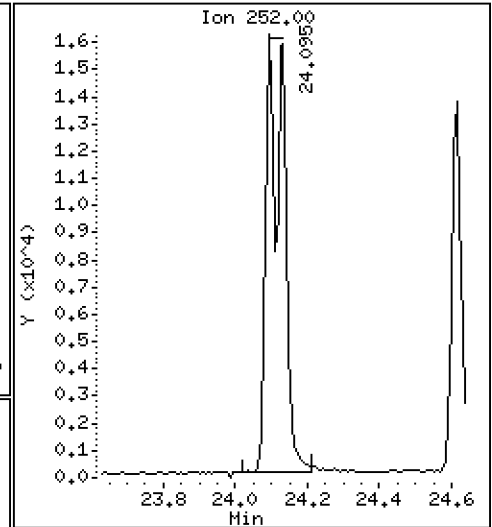
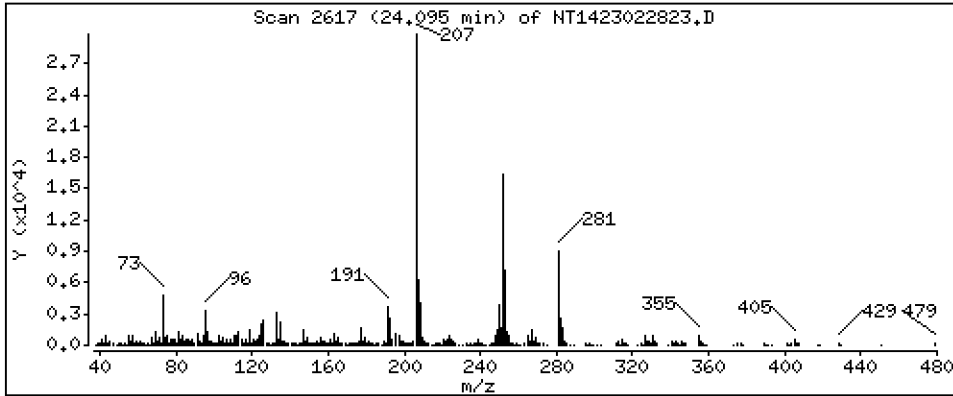
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 0,4192 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

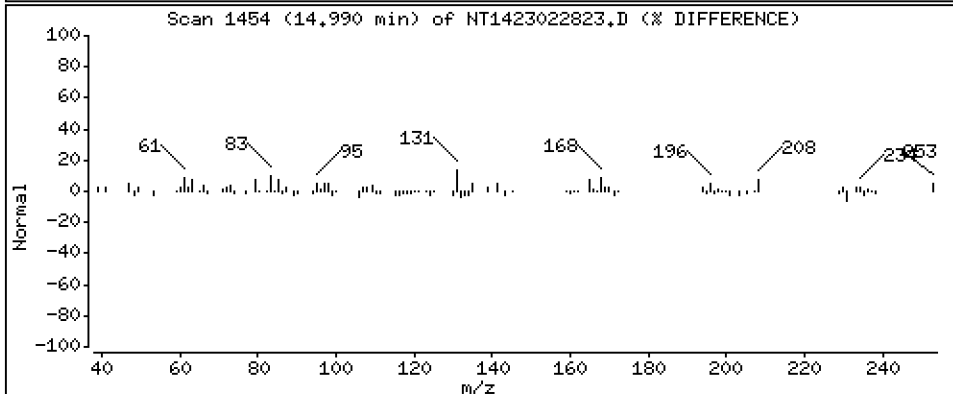
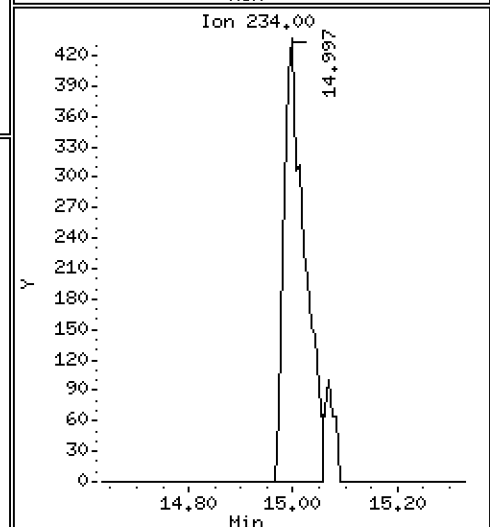
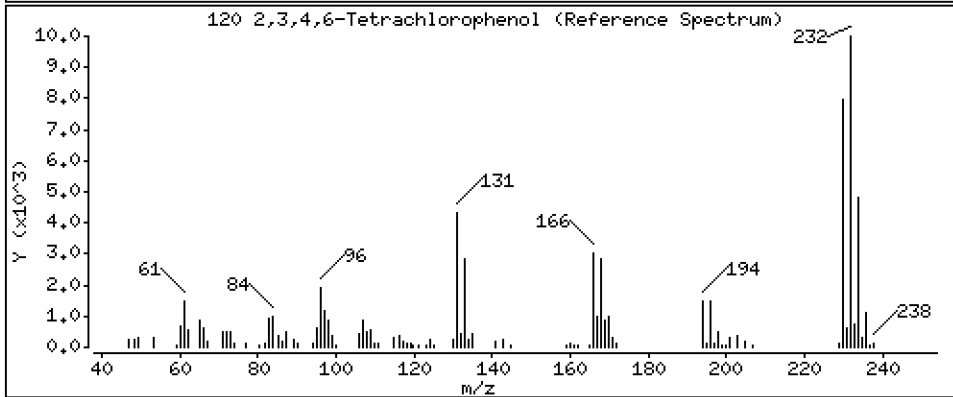
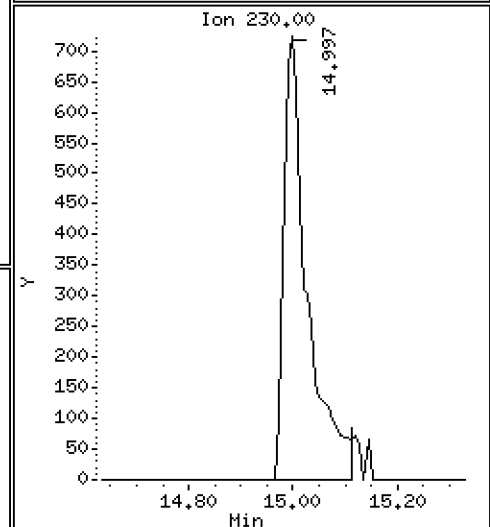
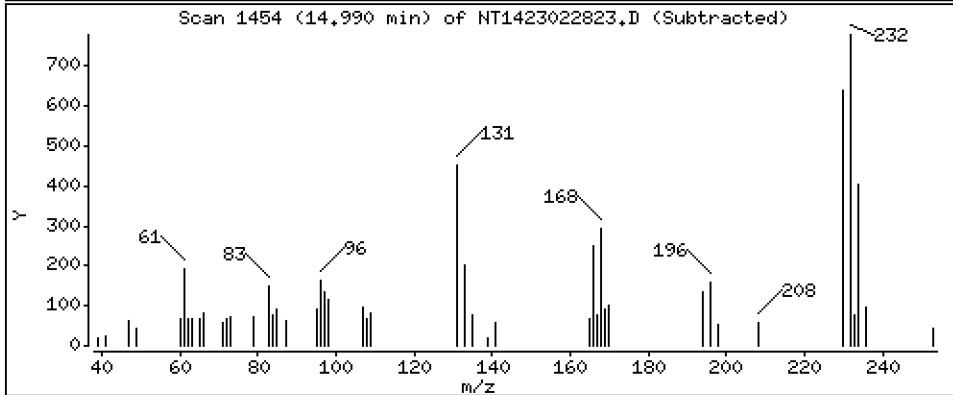
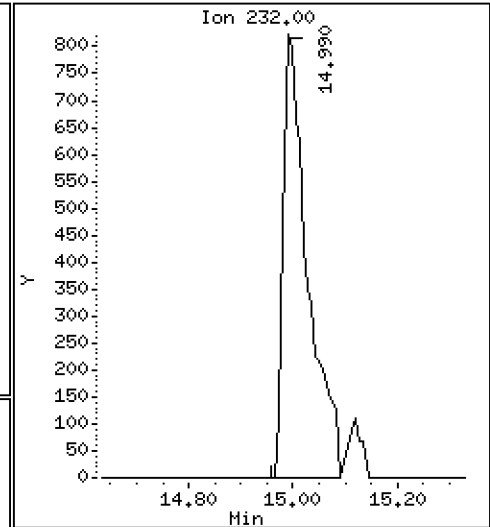
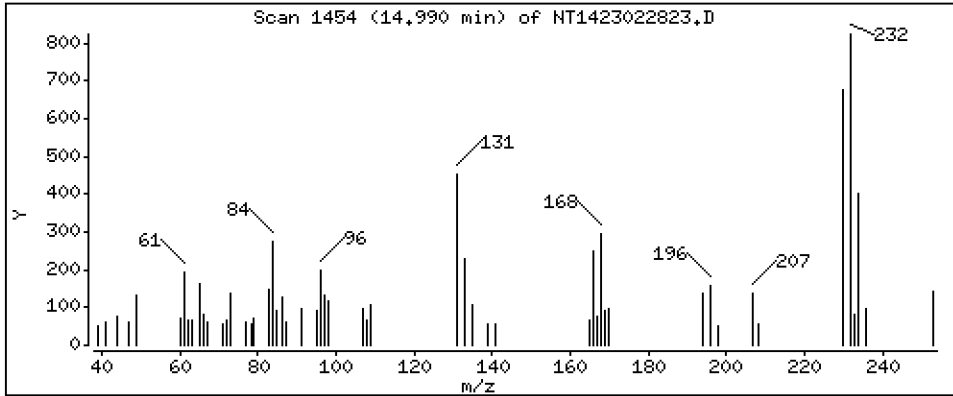
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

120 2,3,4,6-Tetrachlorophenol

Concentration: 0,1006 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230228.b\NT1423022823.D
 Lab Smp Id: SLB0374-LCV1
 Inj Date : 01-MAR-2023 14:51 MS Autotune Date: 17-MAY-2011 01:22
 Operator : JGR Inst ID: nt14.i
 Smp Info : SLB0374-LCV1
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt14.i\20230228.b\ABN.m
 Meth Date : 11-Mar-2023 09:11 van Quant Type: ISTD
 Cal Date : 28-FEB-2023 15:16 Cal File: NT1423022808.D
 Als bottle: 8
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: ICAL.sub
 Target Version: 4.14
 Processing Host: VANS-201906

| Compounds | QUANT | SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|---------------------------------|-------|-----|------------------------|--------|---------|----------|----------------|-------------|
| | | | | | | | ON-COLUMN | FINAL |
| | MASS | | | | | | (ug/mL) | (ug/mL) |
| \$ 1 2-Fluorophenol | 112 | | 6.066 | 6.050 | (0.741) | 6770 | 0.21764 | 0.2176 |
| \$ 2 Phenol-d5 | 99 | | 7.650 | 7.634 | (0.934) | 11118 | 0.25175 | 0.2517 |
| 3 Phenol | 94 | | 7.673 | 7.657 | (0.937) | 11406 | 0.21646 | 0.2165 (M) |
| \$ 5 2-Chlorophenol-d4 | 132 | | 7.858 | 7.850 | (0.959) | 10198 | 0.27157 | 0.2716 |
| 4 Bis(2-Chloroethyl)ether | 93 | | 7.781 | 7.781 | (0.950) | 7424 | 0.19947 | 0.1995 |
| 6 2-Chlorophenol | 128 | | 7.881 | 7.874 | (0.962) | 6882 | 0.17731 | 0.1773 |
| 7 1,3-Dichlorobenzene | 146 | | 8.129 | 8.129 | (0.992) | 9026 | 0.21101 | 0.2110 |
| * 8 1,4-Dichlorobenzene-d4 | 152 | | 8.191 | 8.191 | (1.000) | 114717 | 4.00000 | |
| 9 1,4-Dichlorobenzene | 146 | | 8.222 | 8.222 | (1.004) | 8579 | 0.20293 | 0.2029 |
| \$ 10 1,2-Dichlorobenzene-d4 | 152 | | 8.548 | 8.548 | (1.044) | 5531 | 0.19564 | 0.1956 |
| 12 1,2-Dichlorobenzene | 146 | | 8.571 | 8.571 | (1.046) | 8862 | 0.21862 | 0.2186 |
| 11 Benzyl alcohol | 108 | | 8.556 | 8.501 | (1.045) | 2291 | 0.09976 | 0.09976 (M) |
| 14 2,2'-oxybis(1-Chloropropane) | 121 | | 8.796 | 8.789 | (1.074) | 2337 | 0.21377 | 0.2138 (M) |
| 13 2-Methylphenol | 108 | | 8.758 | 8.742 | (1.069) | 5805 | 0.17438 | 0.1744 |
| 17 Hexachloroethane | 117 | | 9.146 | 9.146 | (1.117) | 2371 | 0.14934 | 0.1493 |
| 16 N-Nitroso-di-n-propylamine | 70 | | 9.045 | 9.053 | (1.104) | 5107 | 0.20149 | 0.2015 |
| 15 4-Methylphenol | 108 | | 9.037 | 9.014 | (1.103) | 5113 | 0.13179 | 0.1318 |
| \$ 18 Nitrobenzene-d5 | 82 | | 9.293 | 9.285 | (0.873) | 7875 | 0.19743 | 0.1974 |
| 19 Nitrobenzene | 77 | | 9.324 | 9.316 | (0.876) | 7056 | 0.18408 | 0.1841 |
| 20 Isophorone | 82 | | 9.774 | 9.774 | (0.918) | 10848 | 0.18106 | 0.1811 |
| 21 2-Nitrophenol | 139 | | 9.960 | 9.945 | (0.935) | 2738 | 0.13803 | 0.1380 (M) |
| 22 2,4-Dimethylphenol | 107 | | 10.046 | 10.038 | (0.943) | 14438 | 0.41318 | 0.4132 |
| 23 Bis(2-Chloroethoxy)methane | 93 | | 10.232 | 10.224 | (0.961) | 7543 | 0.19574 | 0.1957 |
| 24 Benzoic acid | 105 | | Compound Not Detected. | | | | | |
| 25 2,4-Dichlorophenol | 162 | | 10.425 | 10.402 | (0.979) | 10268 | 0.28957 | 0.2896 |
| 26 1,2,4-Trichlorobenzene | 180 | | 10.572 | 10.572 | (0.993) | 8038 | 0.20354 | 0.2035 |
| * 27 Naphthalene-d8 | 136 | | 10.649 | 10.649 | (1.000) | 407764 | 4.00000 | |
| 28 Naphthalene | 128 | | 10.688 | 10.688 | (1.004) | 23230 | 0.21358 | 0.2136 |
| 29 4-Chloroaniline | 127 | | 10.865 | 10.850 | (1.020) | 14621 | 0.31429 | 0.3143 |
| 30 Hexachlorobutadiene | 225 | | 11.066 | 11.066 | (1.039) | 4515 | 0.18736 | 0.1874 |
| 31 4-Chloro-3-methylphenol | 107 | | 11.863 | 11.840 | (1.114) | 9574 | 0.30438 | 0.3044 |
| 32 2-Methylnaphthalene | 142 | | 12.080 | 12.080 | (1.134) | 15634 | 0.19410 | 0.1941 |
| 33 Hexachlorocyclopentadiene | 237 | | Compound Not Detected. | | | | | |

| Compounds | QUANT | SIG | | | | | | CONCENTRATIONS | |
|-----------------------------------|-------|-----|------------------------|--------|---------|--------|----------|----------------------|------------------|
| | | | MASS | RT | EXP RT | REL RT | RESPONSE | ON-COLUMN (ug/mL) | FINAL (ug/mL) |
| 34 2,4,6-Trichlorophenol | 196 | | 12.722 | 12.715 | (0.894) | 7090 | 0.31265 | 0.3126 | |
| 35 2,4,5-Trichlorophenol | 196 | | 12.815 | 12.792 | (0.900) | 6778 | 0.27644 | 0.2764 | |
| § 36 2-Fluorobiphenyl | 172 | | 12.869 | 12.877 | (0.904) | 18685 | 0.20679 | 0.2068 | |
| 37 2-Chloronaphthalene | 162 | | 13.063 | 13.063 | (0.918) | 15044 | 0.20770 | 0.2077 | |
| 38 2-Nitroaniline | 65 | | 13.365 | 13.349 | (0.939) | 6287 | 0.33281 | 0.3328 | |
| 39 Dimethylphthalate | 163 | | 13.798 | 13.798 | (0.970) | 15532 | 0.21271 | 0.2127 | |
| 40 Acenaphthylene | 152 | | 13.914 | 13.922 | (0.978) | 23495 | 0.22106 | 0.2211 | |
| 41 2,6-Dinitrotoluene | 165 | | 13.922 | 13.922 | (0.978) | 6369 | 0.37221 | 0.3722 | |
| * 42 Acenaphthene-d10 | 164 | | 14.232 | 14.232 | (1.000) | 232149 | 4.00000 | | |
| 43 3-Nitroaniline | 138 | | 14.224 | 14.201 | (0.999) | 3874 | 0.22089 | 0.2209 | |
| 44 Acenaphthene | 153 | | 14.293 | 14.301 | (1.004) | 14297 | 0.21010 | 0.2101 | |
| 45 2,4-Dinitrophenol | 184 | | Compound Not Detected. | | | | | | |
| 46 Dibenzofuran | 168 | | 14.626 | 14.626 | (1.028) | 21483 | 0.19841 | 0.1984 | |
| 47 4-Nitrophenol | 109 | | Compound Not Detected. | | | | | | |
| 48 2,4-Dinitrotoluene | 165 | | 14.726 | 14.726 | (1.035) | 6886 | 0.27954 | 0.2795 | |
| 50 Diethylphthalate | 149 | | 15.237 | 15.252 | (1.071) | 14673 | 0.21488 | 0.2149 | |
| 49 Fluorene | 166 | | 15.329 | 15.330 | (1.077) | 19157 | 0.20999 | 0.2100 | |
| 51 4-Chlorophenyl-phenylether | 204 | | 15.345 | 15.345 | (1.078) | 9764 | 0.20115 | 0.2012 | |
| 52 4-Nitroaniline | 138 | | 15.499 | 15.469 | (1.089) | 4718 | 0.27139 | 0.2714 (M) | |
| 53 4,6-Dinitro-2-methylphenol | 198 | | 15.576 | 15.553 | (0.904) | 1986 | 0.13758 | 0.1376 (M) | |
| 54 N-Nitrosodiphenylamine | 169 | | 15.600 | 15.607 | (0.905) | 11588 | 0.21230 | 0.2123 | |
| § 55 2,4,6-Tribromophenol | 330 | | 15.877 | 15.870 | (1.116) | 2586 | 0.20743 | 0.2074 | |
| 56 4-Bromophenyl-phenylether | 248 | | 16.340 | 16.340 | (0.948) | 4846 | 0.20194 | 0.2019 | |
| 57 Hexachlorobenzene | 284 | | 16.626 | 16.626 | (0.965) | 5642 | 0.21385 | 0.2138 | |
| 58 Pentachlorophenol | 266 | | 17.044 | 17.005 | (0.989) | 893 | 0.07199 | 0.07199 (M) | |
| * 59 Phenanthrene-d10 | 188 | | 17.237 | 17.237 | (1.000) | 434349 | 4.00000 | | |
| 60 Phenanthrene | 178 | | 17.284 | 17.291 | (1.003) | 23812 | 0.20608 | 0.2061 | |
| 61 Anthracene | 178 | | 17.376 | 17.384 | (1.008) | 22351 | 0.20462 | 0.2046 | |
| 62 Carbazole | 167 | | 17.740 | 17.732 | (1.029) | 17760 | 0.18551 | 0.1855 | |
| 63 Di-n-butylphthalate | 149 | | 18.583 | 18.583 | (1.078) | 22145 | 0.17907 | 0.1791 | |
| 64 Fluoranthene | 202 | | 19.705 | 19.705 | (0.881) | 24042 | 0.19724 | 0.1972 | |
| 65 Pyrene | 202 | | 20.139 | 20.139 | (0.901) | 24983 | 0.19440 | 0.1944 | |
| § 66 Terphenyl-d14 | 244 | | 20.464 | 20.471 | (0.915) | 19653 | 0.19862 | 0.1986 | |
| 67 Butylbenzylphthalate | 149 | | 21.431 | 21.439 | (0.958) | 9295 | 0.20433 | 0.2043 | |
| 68 Benzo(a)anthracene | 228 | | 22.330 | 22.330 | (0.999) | 23837 | 0.22149 | 0.2215 | |
| * 69 Chrysene-d12 | 240 | | 22.361 | 22.361 | (1.000) | 321275 | 4.00000 | | |
| 70 3,3'-Dichlorobenzidine | 252 | | 22.322 | 22.322 | (0.998) | 22528 | 0.73301 | 0.7330 | |
| 71 Chrysene | 228 | | 22.399 | 22.407 | (1.002) | 22276 | 0.21535 | 0.2153 | |
| 72 bis(2-Ethylhexyl)phthalate | 149 | | 22.492 | 22.492 | (0.958) | 13193 | 0.18020 | 0.1802 | |
| * 134 Di-n-octylphthalate-d4 | 153 | | 23.468 | 23.468 | (1.000) | 479418 | 4.00000 | | |
| 73 Di-n-octylphthalate | 149 | | 23.475 | 23.483 | (1.000) | 25542 | 0.20235 | 0.2023 | |
| 74 Benzo(b)fluoranthene | 252 | | 24.095 | 24.103 | (0.975) | 25649 | 0.19560 | 0.1956 | |
| 75 Benzo(k)fluoranthene | 252 | | 24.133 | 24.134 | (0.977) | 31249 | 0.22089 | 0.2209 | |
| 76 Benzo(a)pyrene | 252 | | 24.614 | 24.621 | (0.996) | 24825 | 0.22067 | 0.2207 | |
| * 77 Perylene-d12 | 264 | | 24.706 | 24.707 | (1.000) | 396889 | 4.00000 | | |
| 78 Indeno(1,2,3-cd)pyrene | 276 | | 26.784 | 26.784 | (1.084) | 18541 | 0.13093 | 0.1309 | |
| 79 Dibenzo(a,h)anthracene | 278 | | 26.800 | 26.792 | (1.085) | 17192 | 0.14294 | 0.1429 | |
| 80 Benzo(g,h,i)perylene | 276 | | 27.382 | 27.375 | (1.108) | 12292 | 0.09952 | 0.09952 | |
| 90 N-Nitrosodimethylamine | 74 | | 4.011 | 3.988 | (0.490) | 4100 | 0.17348 | 0.1735 | |
| 91 Aniline | 93 | | 7.688 | 7.681 | (0.939) | 16619 | 0.30511 | 0.3051 | |
| 93 Benzidine | 184 | | 20.015 | 19.992 | (0.895) | 12002 | 0.23015 | 0.2301 | |
| 103 Pyridine | 79 | | 4.112 | 3.996 | (0.502) | 8733 | 0.12528 | 0.1253 (M) | |
| 105 1-methylnaphthalene | 142 | | 12.297 | 12.297 | (1.155) | 14470 | 0.19514 | 0.1951 | |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77 | | 15.661 | 15.669 | (1.100) | 16319 | 0.20817 | 0.2082 | |

| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|-------------------------------|-----------|--------|--------|---------|----------|----------------------|------------------|
| | | | | | | ON-COLUMN (ug/mL) | FINAL (ug/mL) |
| 187 Total Benzofluoranthenes | 252 | 24.095 | 24.134 | (0.975) | 53777 | 0.41924 | 0.4192 |
| 120 2,3,4,6-Tetrachlorophenol | 232 | 14.989 | 14.981 | (1.053) | 2627 | 0.10062 | 0.1006 (M) |

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 01-MAR-2023
 Lab File ID: NT1423022823.D Calibration Time: 13:39
 Lab Smp Id: SLB0374-LCV1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: JGR
 Method File: \\target\share\chem3\nt14.i\20230228.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|--------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 125853 | 62927 | 251706 | 114717 | -8.85 |
| 27 Naphthalene-d8 | 454961 | 227481 | 909922 | 407764 | -10.37 |
| 42 Acenaphthene-d10 | 273779 | 136890 | 547558 | 232149 | -15.21 |
| 59 Phenanthrene-d10 | 520384 | 260192 | 1040768 | 434349 | -16.53 |
| 69 Chrysene-d12 | 399183 | 199592 | 798366 | 321275 | -19.52 |
| 134 Di-n-octylphthala | 602810 | 301405 | 1205620 | 479418 | -20.47 |
| 77 Perylene-d12 | 478887 | 239444 | 957774 | 396889 | -17.12 |

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

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

REVIEW SUMMARY FOR FILE - NT1423022823.D

Lab ID: SLB0374-LCV1
nt14.i, ABN.m, 01-MAR-2023 14:51

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT | CCV RRT | DELTA | COMPOUND |
|-------|---------|--------|----------------|
| 1.045 | 1.038 | 0.0066 | Benzyl alcohol |
| 0.502 | 0.488 | 0.0141 | Pyridine |

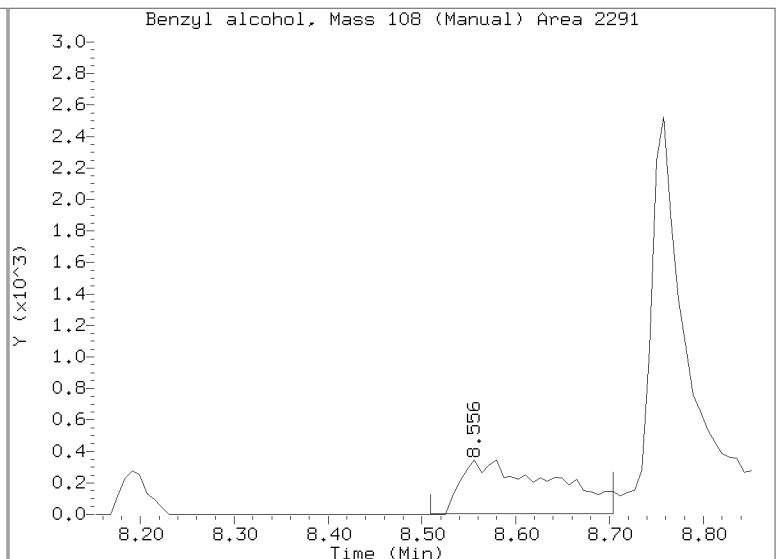
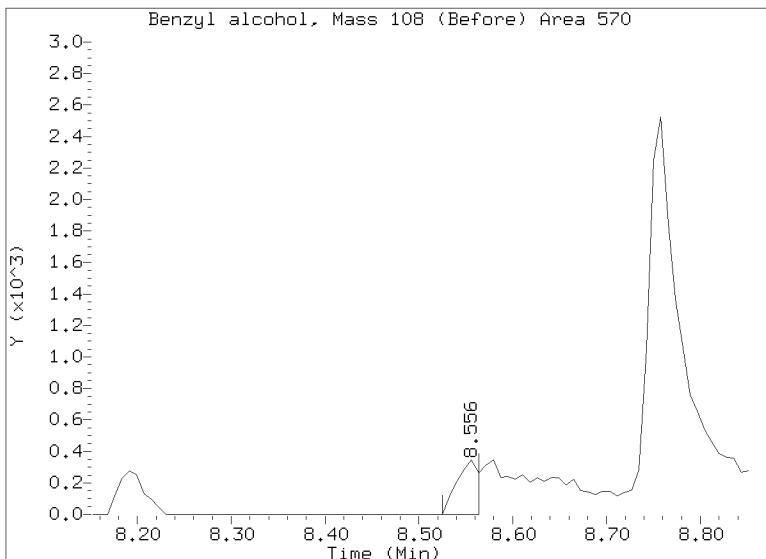
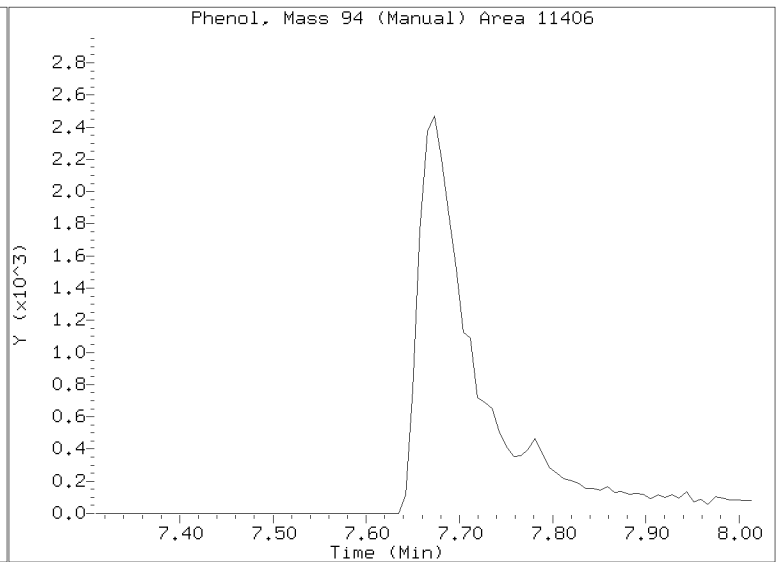
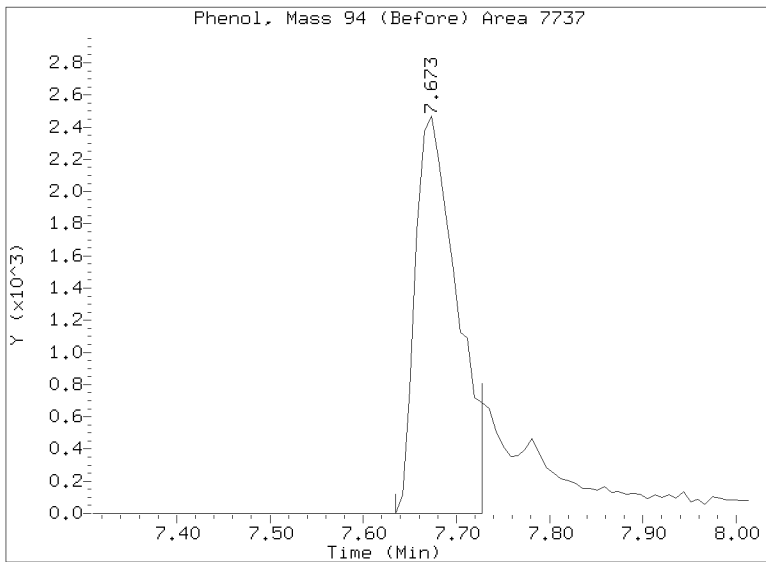
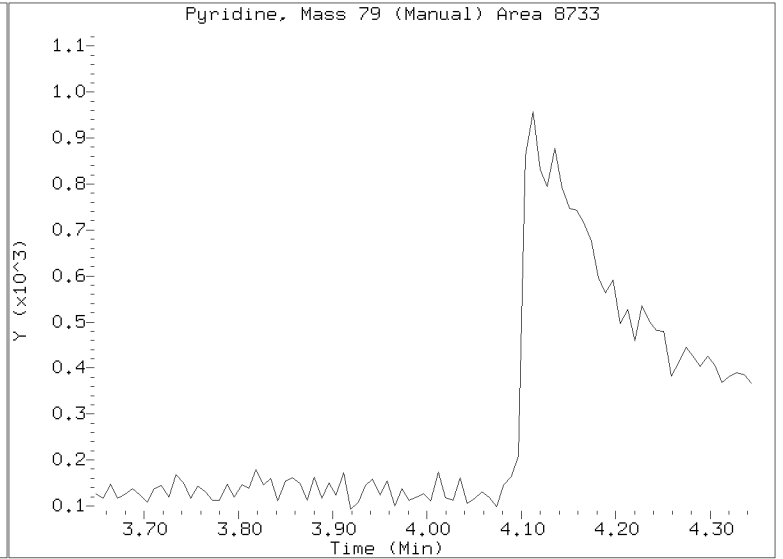
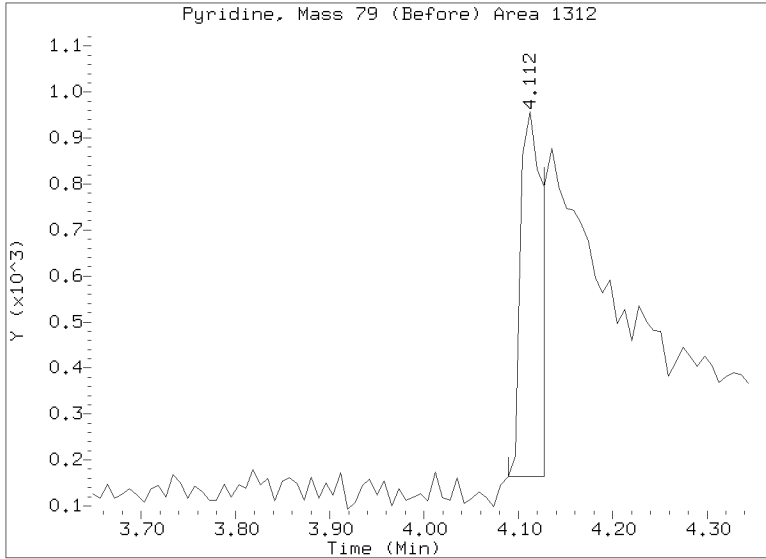
RRT check based on Ccal File: NT1423022821.D

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

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

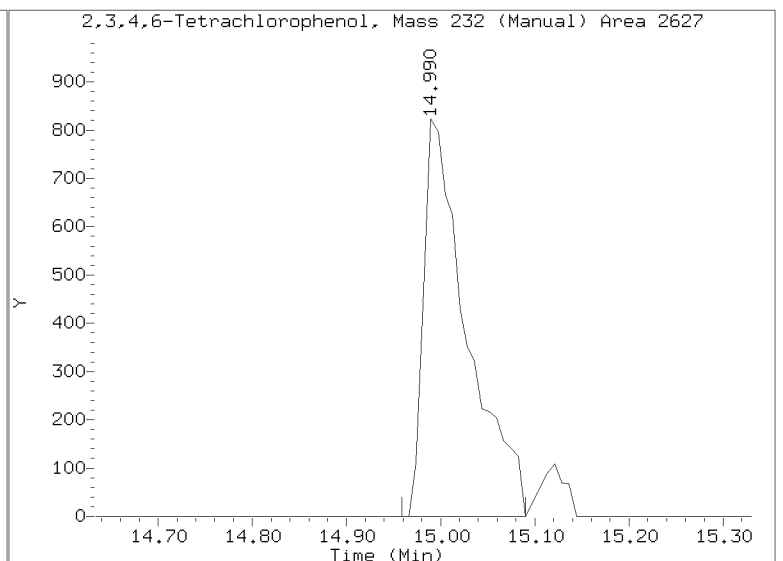
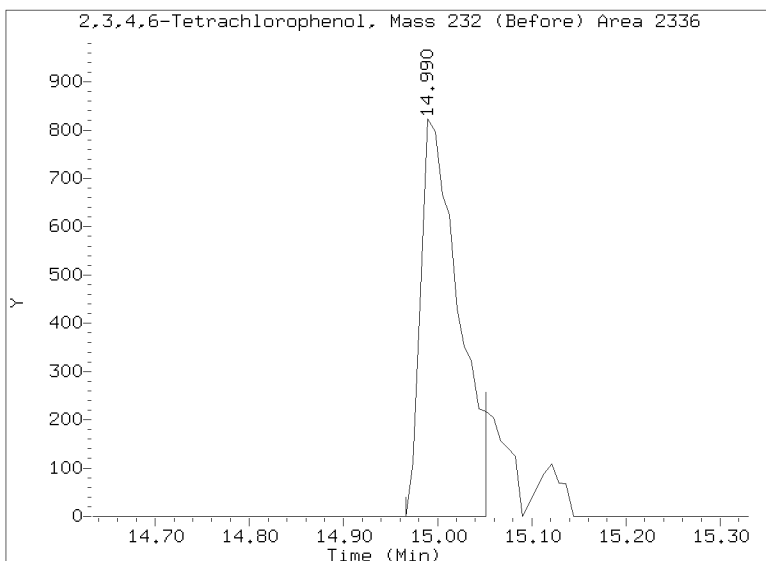
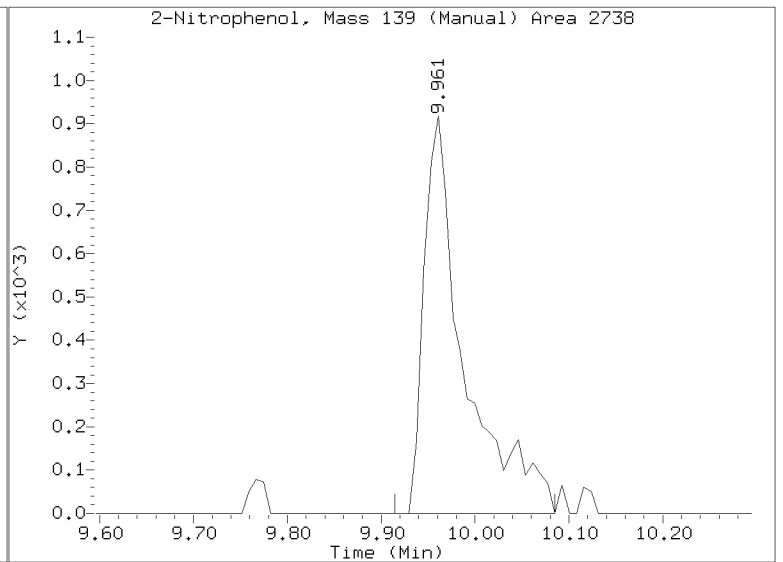
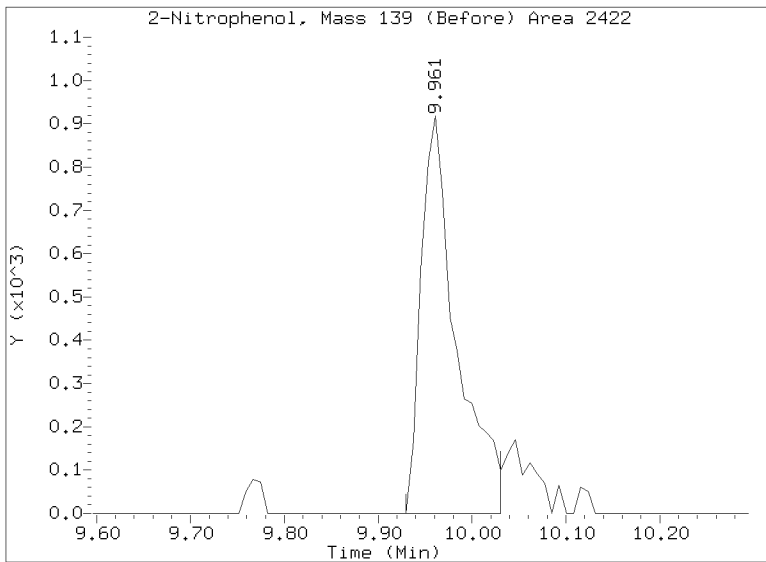
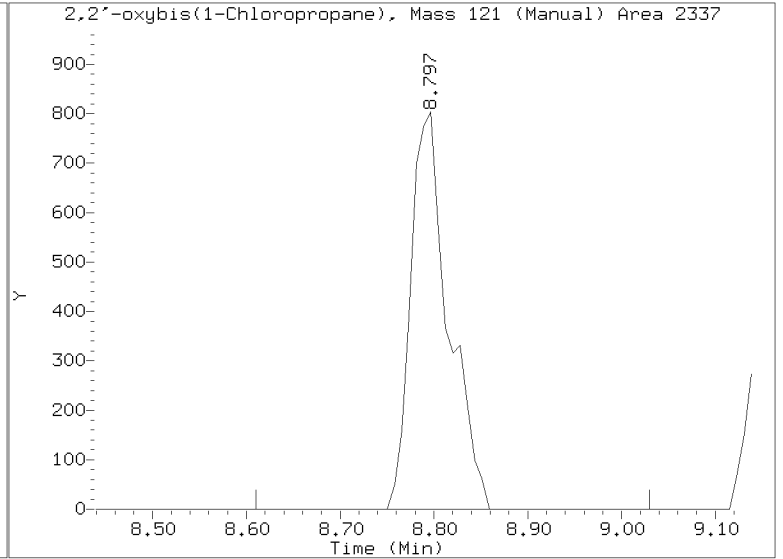
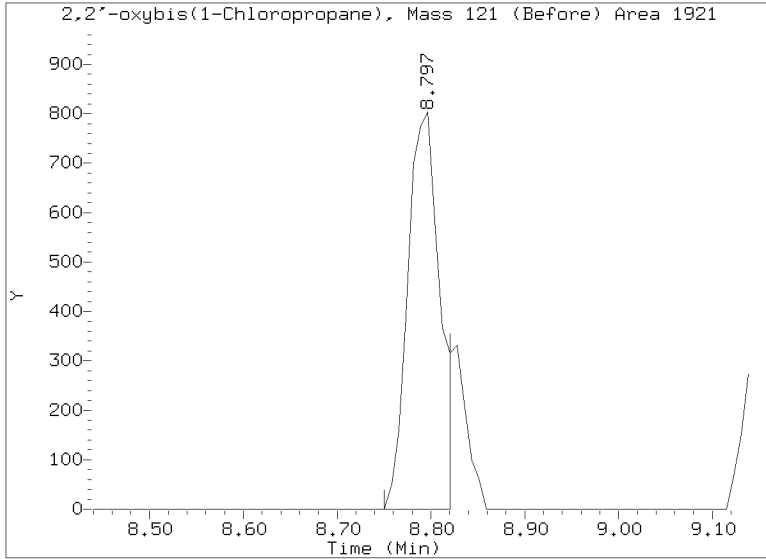
Quant Ion Manual Peak Adjustment Report

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Injection Date: 01-MAR-2023 14:51
Lab ID:SLB0374-LCV1 Client ID:
Report Date: 03/11/2023 09:11



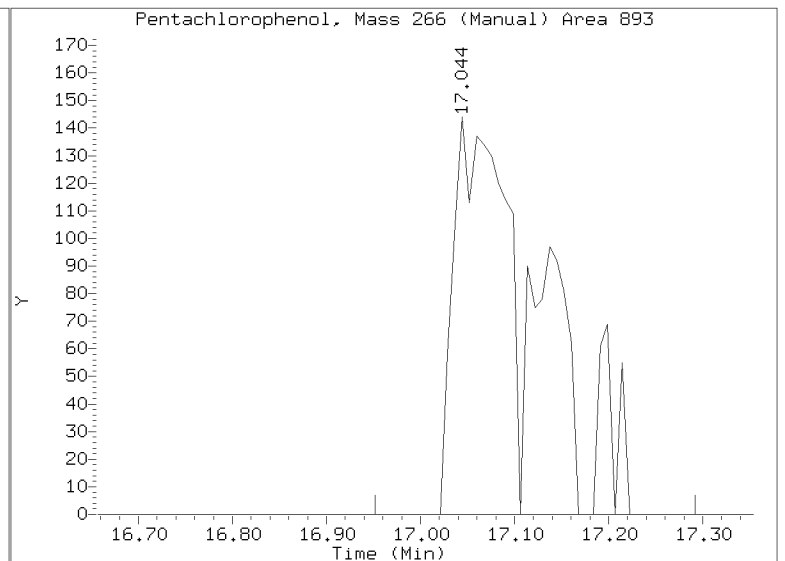
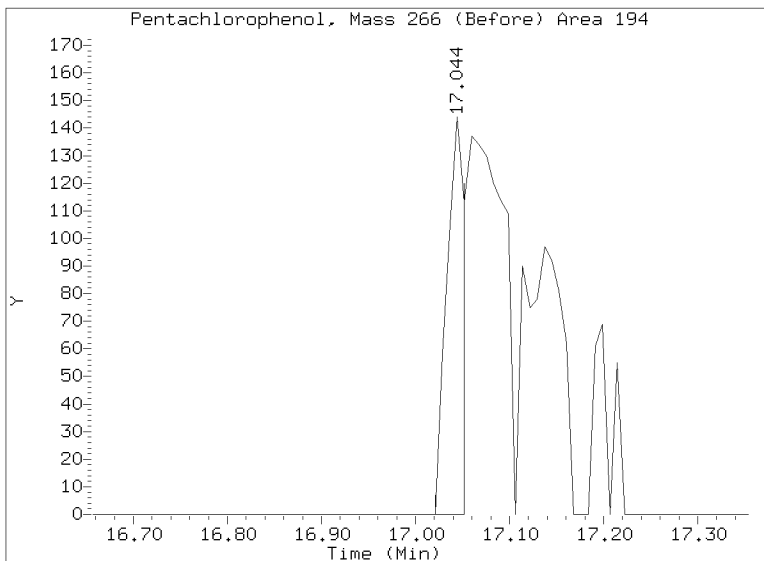
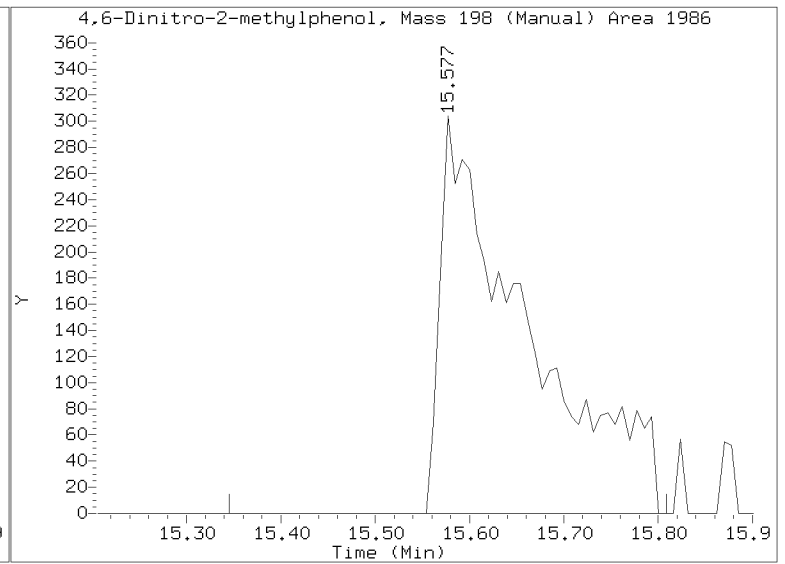
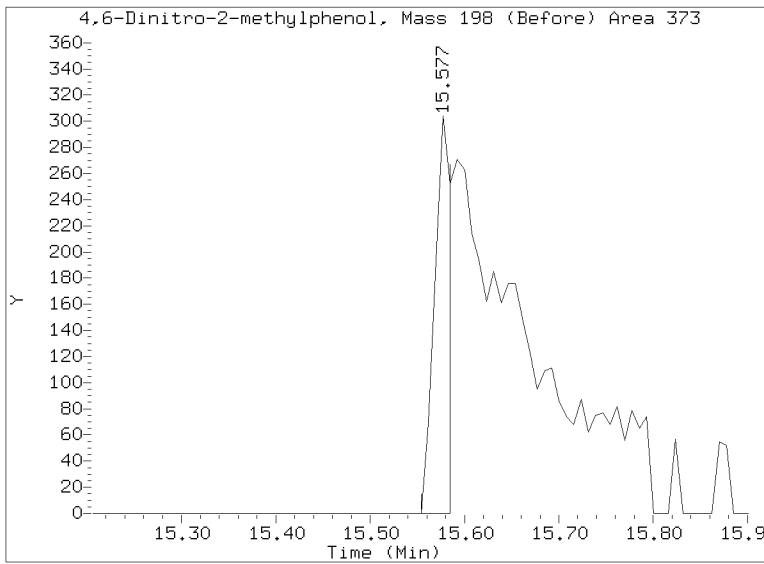
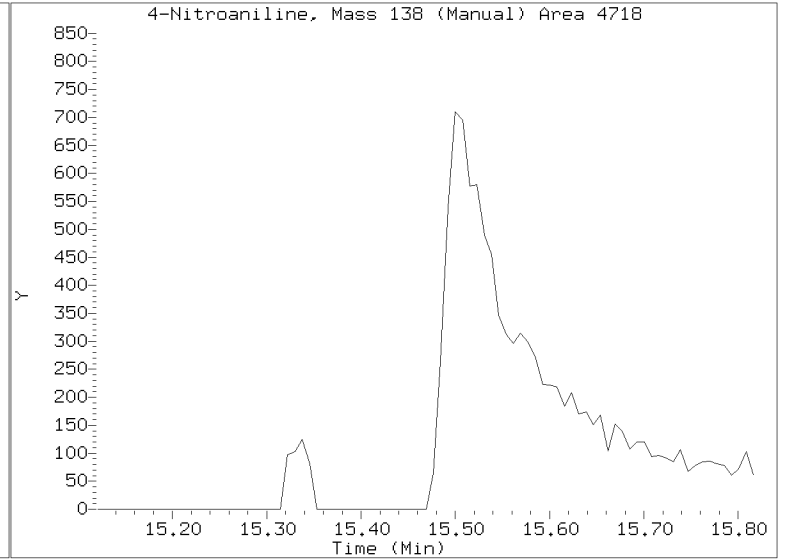
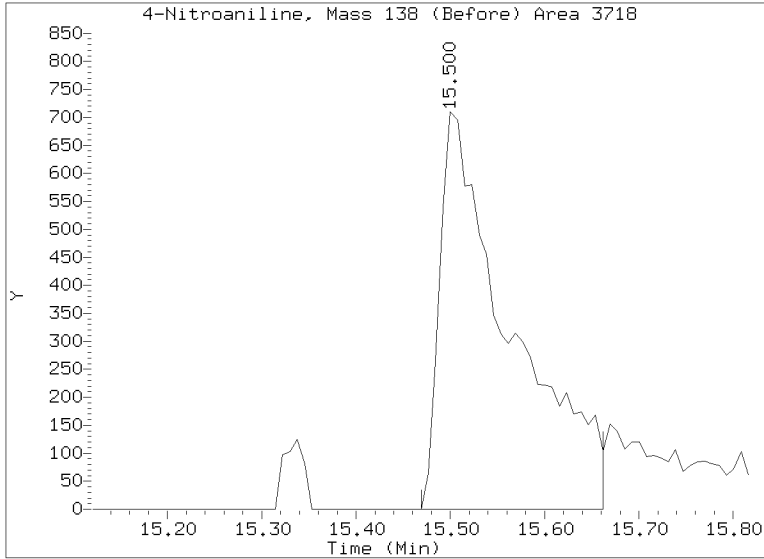
Quant Ion Manual Peak Adjustment Report

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Injection Date: 01-MAR-2023 14:51
Lab ID:SLB0374-LCV1 Client ID:
Report Date: 03/11/2023 09:11



Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230228.b/NT1423022823.D
Injection Date: 01-MAR-2023 14:51
Lab ID: SLB0374-LCV1 Client ID:
Report Date: 03/11/2023 09:11





**LOW-CONCENTRATION
CALIBRATION VERIFICATION
EPA 8270E**

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Calibration: GC00033

Laboratory ID: SLB0374-LCV2

Sequence: SLB0374

Standard ID: K011106

| ANALYTE | EXPECTED (ug/mL) | FOUND (ug/mL) | % DRIFT | QC LIMIT |
|------------------------------|---------------------|------------------|---------|----------|
| Phenol | 0.50000 | 0.5 | -0.1 | 50.00 |
| bis(2-chloroethyl) ether | 0.50000 | 0.5 | 3.0 | 50.00 |
| 2-Chlorophenol | 0.50000 | 0.5 | -3.1 | 50.00 |
| 1,3-Dichlorobenzene | 0.50000 | 0.5 | 5.2 | 50.00 |
| 1,4-Dichlorobenzene | 0.50000 | 0.5 | 1.0 | 50.00 |
| 1,2-Dichlorobenzene | 0.50000 | 0.5 | 4.2 | 50.00 |
| Benzyl Alcohol | 0.50000 | 0.3 | -42.4 | 50.00 |
| 2,2'-Oxybis(1-chloropropane) | 0.50000 | 0.5 | 4.4 | 50.00 |
| 2-Methylphenol | 0.50000 | 0.5 | -1.2 | 50.00 |
| Hexachloroethane | 0.50000 | 0.4 | -16.0 | 50.00 |
| N-Nitroso-di-n-Propylamine | 0.50000 | 0.5 | 9.6 | 50.00 |
| 4-Methylphenol | 0.50000 | 0.4 | -15.6 | 50.00 |
| Nitrobenzene | 0.50000 | 0.6 | 10.1 | 50.00 |
| Isophorone | 0.50000 | 0.4 | -13.2 | 50.00 |
| 2-Nitrophenol | 0.50000 | 0.4 | -25.3 | 50.00 |
| 2,4-Dimethylphenol | 1.0000 | 1.1 | 9.6 | 50.00 |
| Bis(2-Chloroethoxy)methane | 0.50000 | 0.5 | -0.4 | 50.00 |
| 2,4-Dichlorophenol | 1.0000 | 0.9 | -14.1 | 50.00 |
| 1,2,4-Trichlorobenzene | 0.50000 | 0.5 | 1.2 | 50.00 |
| Naphthalene | 0.50000 | 0.5 | 6.0 | 50.00 |
| Benzoic acid | 2.0000 | 0.6 | -71.6 * | 50.00 |
| 4-Chloroaniline | 1.0000 | 0.9 | -5.4 | 50.00 |
| Hexachlorobutadiene | 0.50000 | 0.5 | 9.9 | 50.00 |
| 4-Chloro-3-Methylphenol | 1.0000 | 1.0 | -2.8 | 50.00 |
| 2-Methylnaphthalene | 0.50000 | 0.5 | 1.4 | 50.00 |
| Hexachlorocyclopentadiene | 1.0000 | 0.03 | -97.1 * | 50.00 |
| 2,4,6-Trichlorophenol | 1.0000 | 0.9 | -6.7 | 50.00 |
| 2,4,5-Trichlorophenol | 1.0000 | 0.9 | -12.3 | 50.00 |
| 2-Chloronaphthalene | 0.50000 | 0.5 | 4.1 | 50.00 |



**LOW-CONCENTRATION
CALIBRATION VERIFICATION
EPA 8270E**

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Calibration: GC00033

Laboratory ID: SLB0374-LCV2

Sequence: SLB0374

Standard ID: K011106

| | | | | |
|----------------------------|---------|-----|---------|-------|
| 2-Nitroaniline | 1.0000 | 1.0 | 4.8 | 50.00 |
| Acenaphthylene | 0.50000 | 0.6 | 13.4 | 50.00 |
| Dimethylphthalate | 0.50000 | 0.5 | 9.6 | 50.00 |
| 2,6-Dinitrotoluene | 1.0000 | 1.0 | -0.6 | 50.00 |
| Acenaphthene | 0.50000 | 0.5 | 4.2 | 50.00 |
| 3-Nitroaniline | 1.0000 | 0.9 | -8.9 | 50.00 |
| 2,4-Dinitrophenol | 2.0000 | 0.3 | -83.3 * | 50.00 |
| Dibenzofuran | 0.50000 | 0.5 | 1.6 | 50.00 |
| 4-Nitrophenol | 1.0000 | 0.7 | -27.2 | 50.00 |
| 2,4-Dinitrotoluene | 1.0000 | 0.9 | -13.7 | 50.00 |
| Fluorene | 0.50000 | 0.5 | 7.1 | 50.00 |
| 4-Chlorophenylphenyl ether | 0.50000 | 0.5 | 1.4 | 50.00 |
| Diethyl phthalate | 0.50000 | 0.5 | 8.7 | 50.00 |
| 4-Nitroaniline | 1.0000 | 0.8 | -19.3 | 50.00 |
| 4,6-Dinitro-2-methylphenol | 2.0000 | 0.8 | -61.7 * | 50.00 |
| N-Nitrosodiphenylamine | 0.50000 | 0.6 | 11.0 | 50.00 |
| 4-Bromophenyl phenyl ether | 0.50000 | 0.5 | 2.7 | 50.00 |
| Hexachlorobenzene | 0.50000 | 0.5 | 4.0 | 50.00 |
| Pentachlorophenol | 1.0000 | 0.4 | -57.2 * | 50.00 |
| Phenanthrene | 0.50000 | 0.5 | 2.5 | 50.00 |
| Anthracene | 0.50000 | 0.5 | 3.8 | 50.00 |
| Carbazole | 0.50000 | 0.5 | -1.0 | 50.00 |
| Di-n-Butylphthalate | 0.50000 | 0.5 | -4.3 | 50.00 |
| Fluoranthene | 0.50000 | 0.5 | 2.6 | 50.00 |
| Pyrene | 0.50000 | 0.5 | 2.4 | 50.00 |
| Butylbenzylphthalate | 0.50000 | 0.5 | 2.4 | 50.00 |
| Benzo(a)anthracene | 0.50000 | 0.5 | 9.1 | 50.00 |
| 3,3'-Dichlorobenzidine | 1.5000 | 1.9 | 23.6 | 50.00 |
| Chrysene | 0.50000 | 0.5 | 6.5 | 50.00 |
| bis(2-Ethylhexyl)phthalate | 0.50000 | 0.5 | -9.2 | 50.00 |
| Di-n-Octylphthalate | 0.50000 | 0.5 | 0.07 | 50.00 |



**LOW-CONCENTRATION
CALIBRATION VERIFICATION
EPA 8270E**

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Calibration: GC00033

Laboratory ID: SLB0374-LCV2

Sequence: SLB0374

Standard ID: K011106

| | | | | |
|---------------------------|---------|-------|---------|-------|
| Benzofluoranthenes, Total | 1.0000 | 1.1 | 5.5 | 50.00 |
| Benzo(a)pyrene | 0.50000 | 0.5 | 9.4 | 50.00 |
| Indeno(1,2,3-cd)pyrene | 0.50000 | 0.3 | -34.8 | 50.00 |
| Dibenzo(a,h)anthracene | 0.50000 | 0.4 | -29.3 | 50.00 |
| Benzo(g,h,i)perylene | 0.50000 | 0.2 | -53.4 * | 50.00 |
| 1-Methylnaphthalene | 0.50000 | 0.5 | 2.2 | 50.00 |
| 2-Fluorophenol | 0.75000 | 0.690 | -8.0 | 50.00 |
| Phenol-d5 | 0.75000 | 0.751 | 0.08 | 50.00 |
| 2-Chlorophenol-d4 | 0.75000 | 0.753 | 0.4 | 50.00 |
| 1,2-Dichlorobenzene-d4 | 0.50000 | 0.511 | 2.1 | 50.00 |
| Nitrobenzene-d5 | 0.50000 | 0.540 | 8.0 | 50.00 |
| 2-Fluorobiphenyl | 0.50000 | 0.523 | 4.7 | 50.00 |
| 2,4,6-Tribromophenol | 0.75000 | 0.624 | -16.9 | 50.00 |
| p-Terphenyl-d14 | 0.50000 | 0.515 | 3.0 | 50.00 |

* Values outside of QC limits

Data File: \\target\share\chem3\nt14,1\20230228,16\NT1423022825.D

Date: 01-HRR-2023 16:04

Client ID:

Sample Info: SLB0374-LCW2

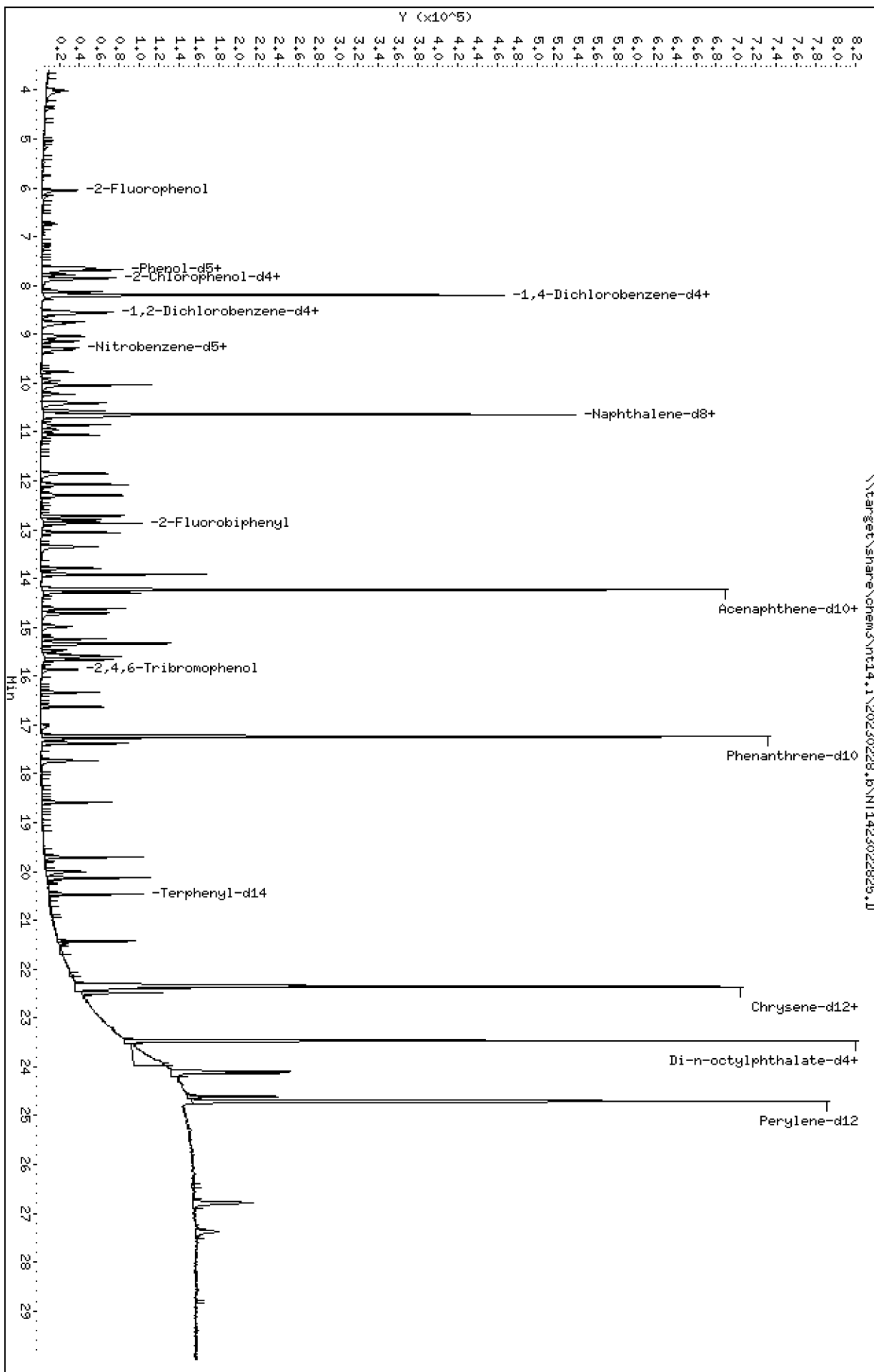
Column phase: ZB-5msi

Instrument: nt14,1

Operator: JGR

Column diameter: 0.25

Page 1



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

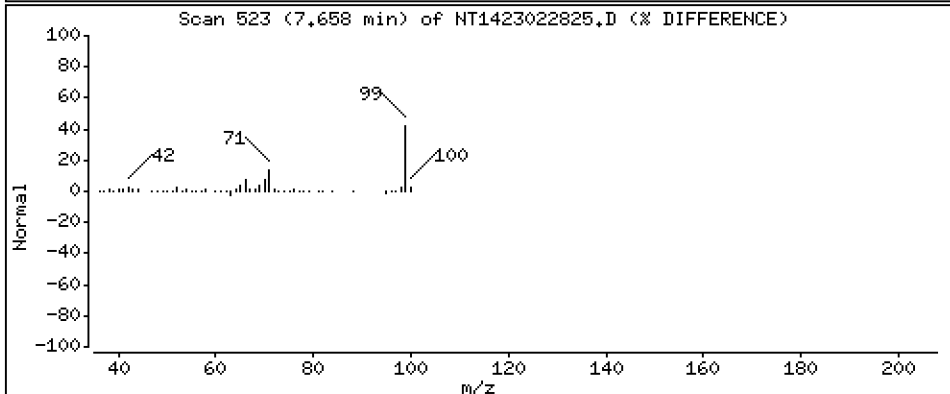
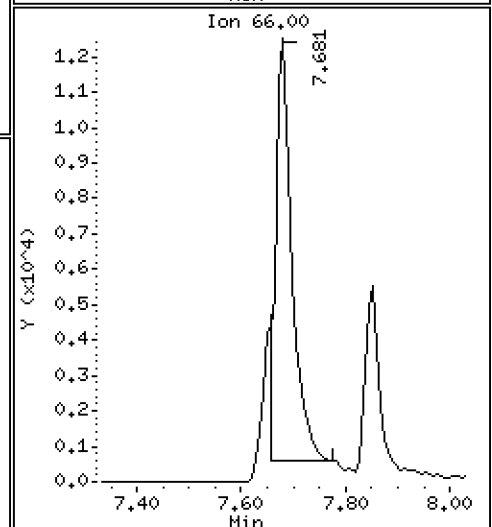
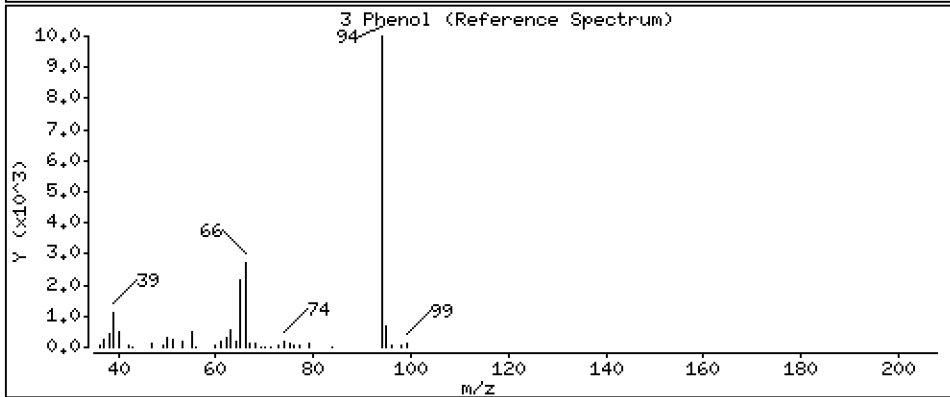
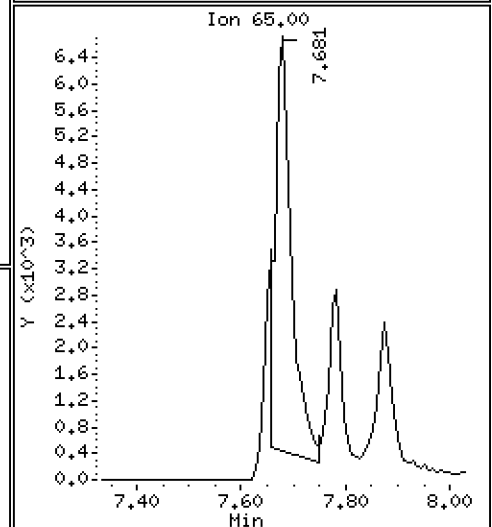
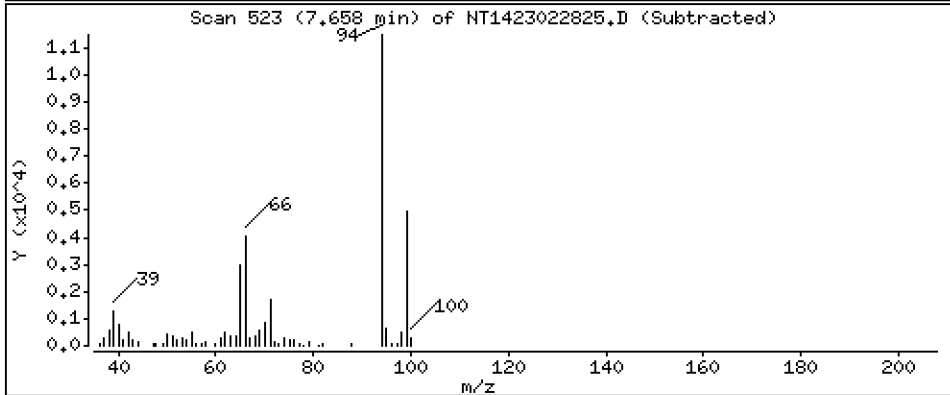
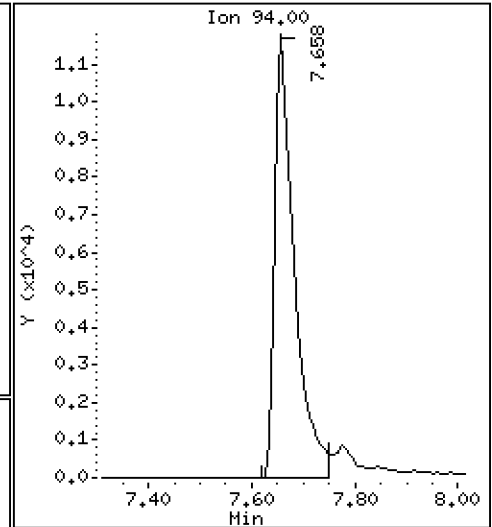
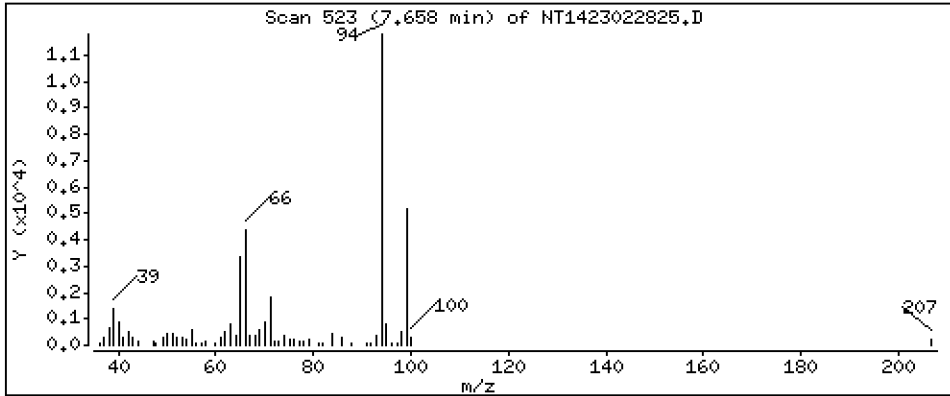
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

3 Phenol

Concentration: 0.4993 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

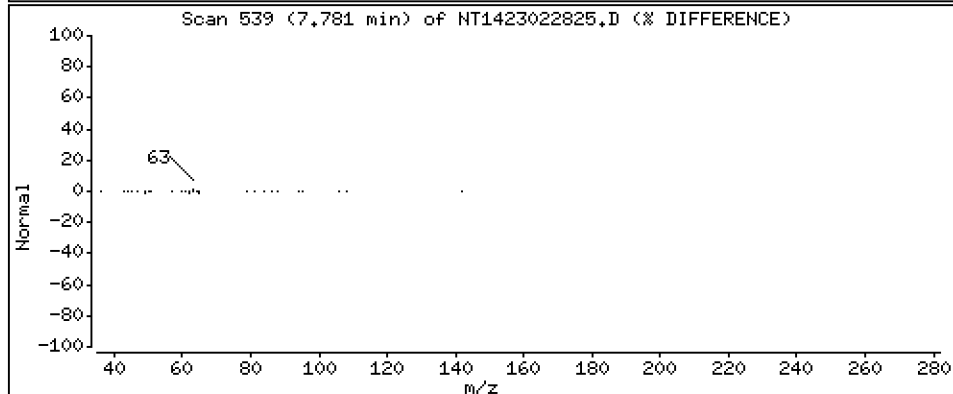
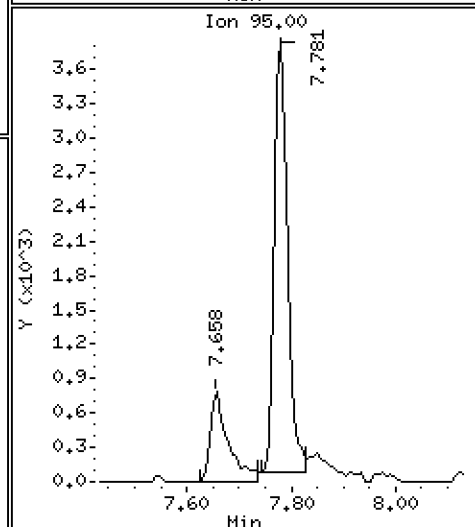
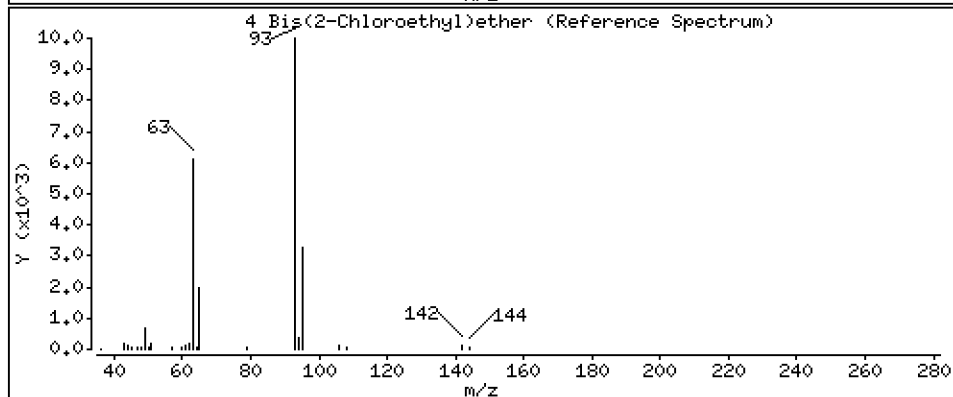
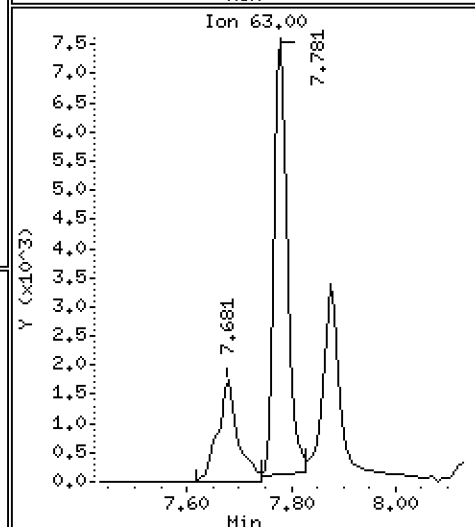
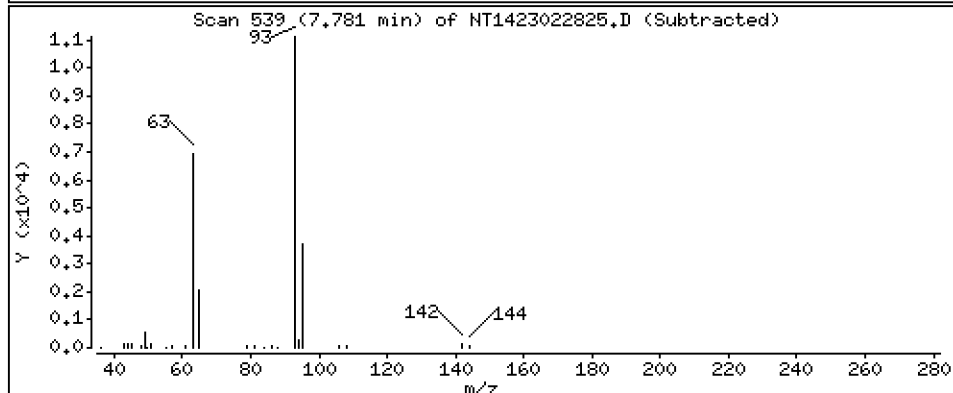
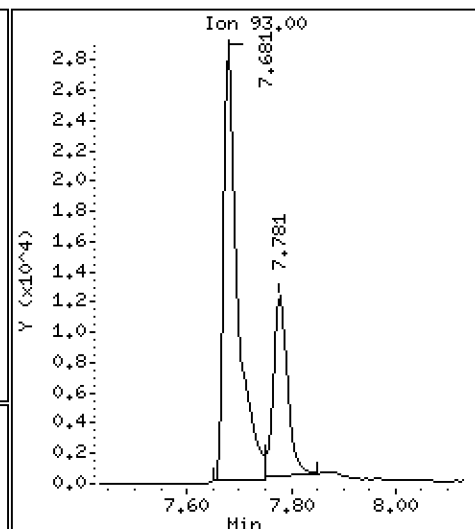
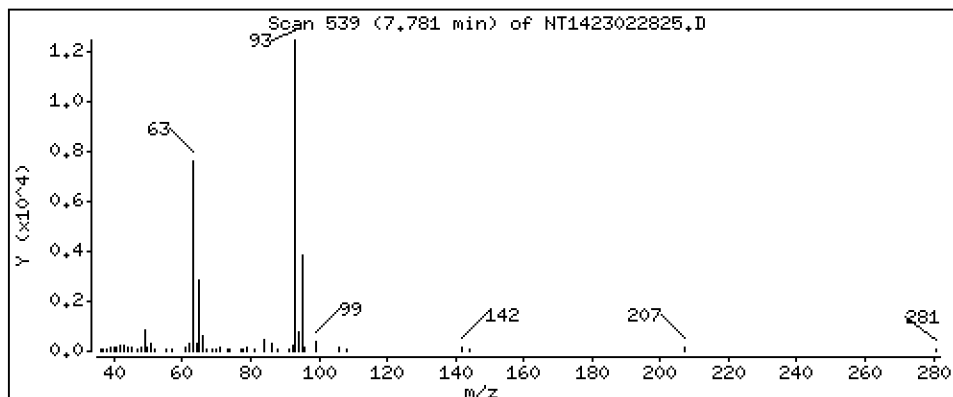
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

4 Bis(2-Chloroethyl)ether

Concentration: 0,5148 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

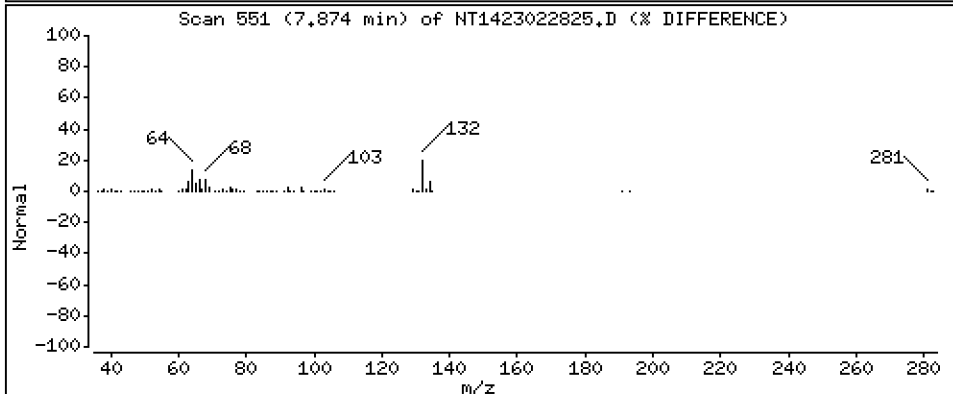
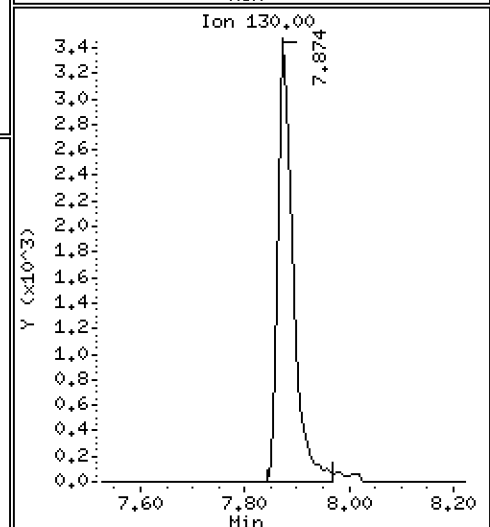
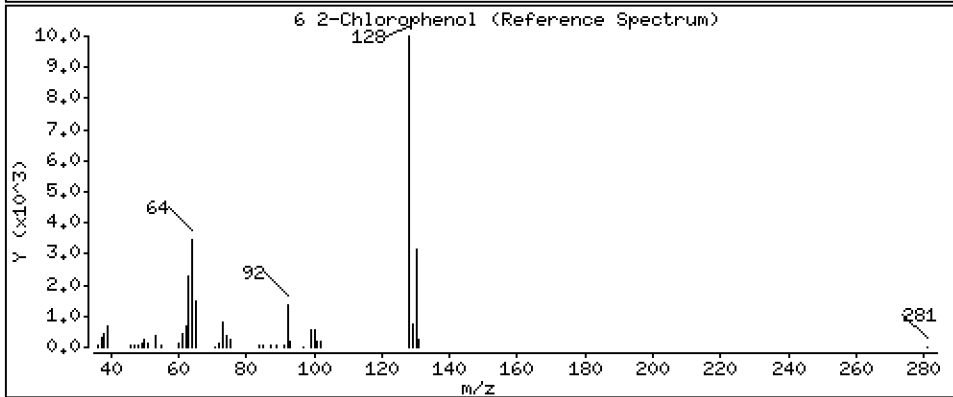
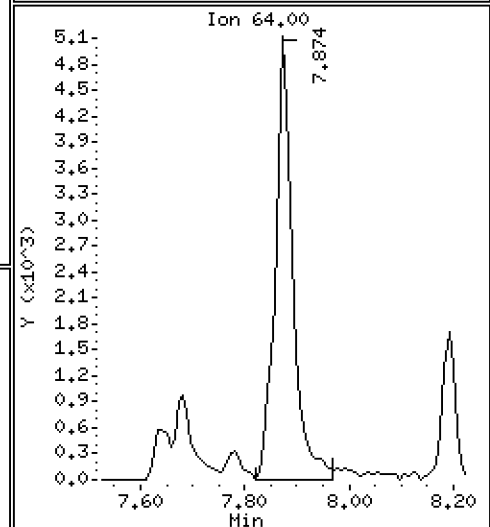
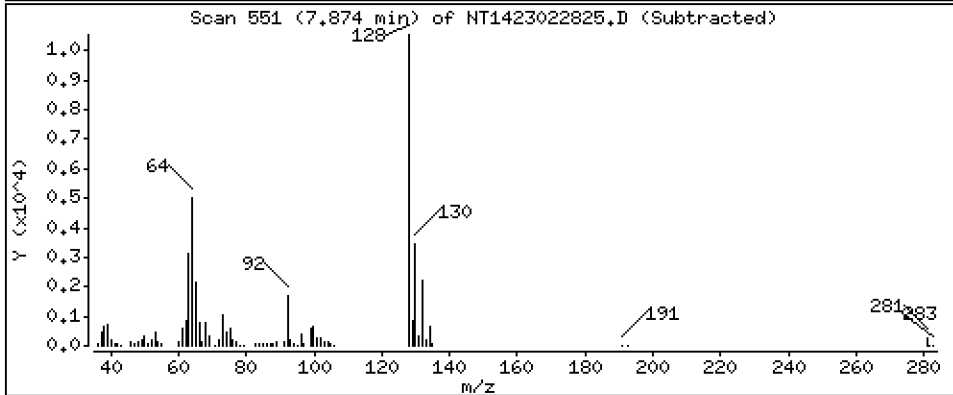
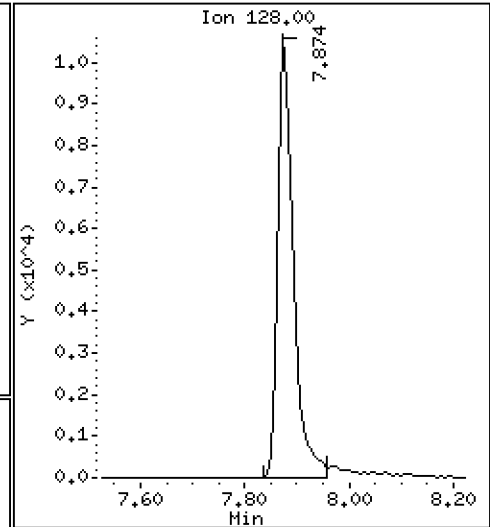
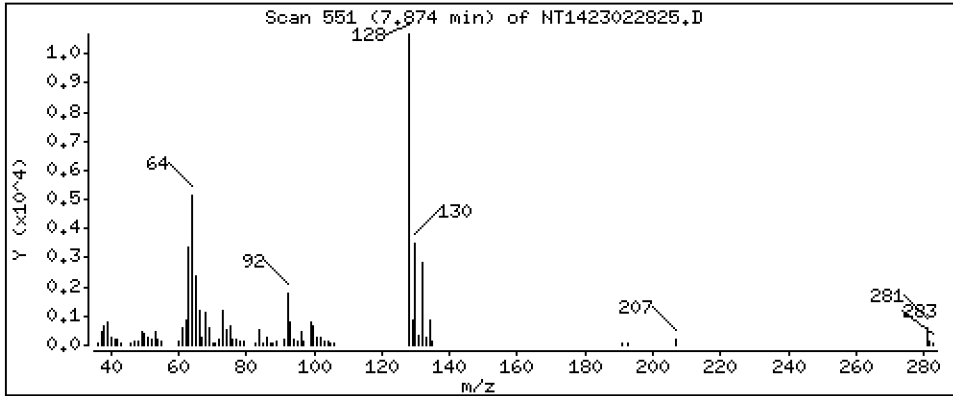
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 0,4847 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

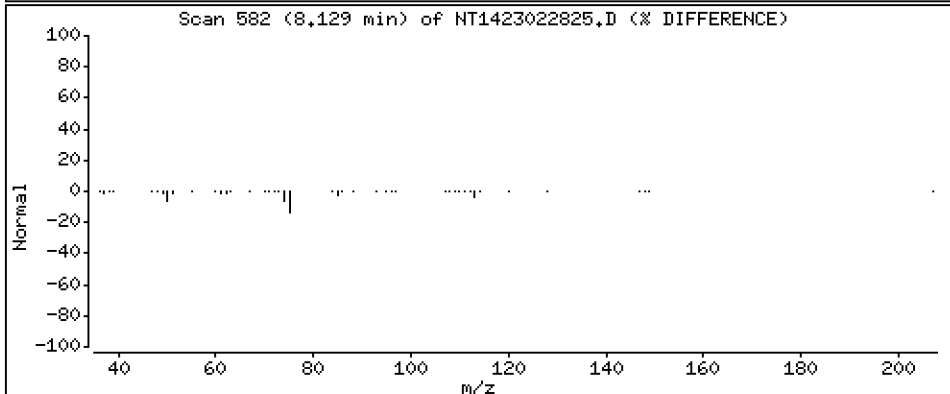
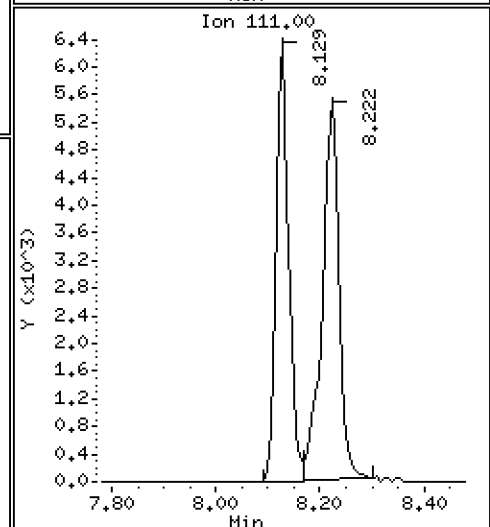
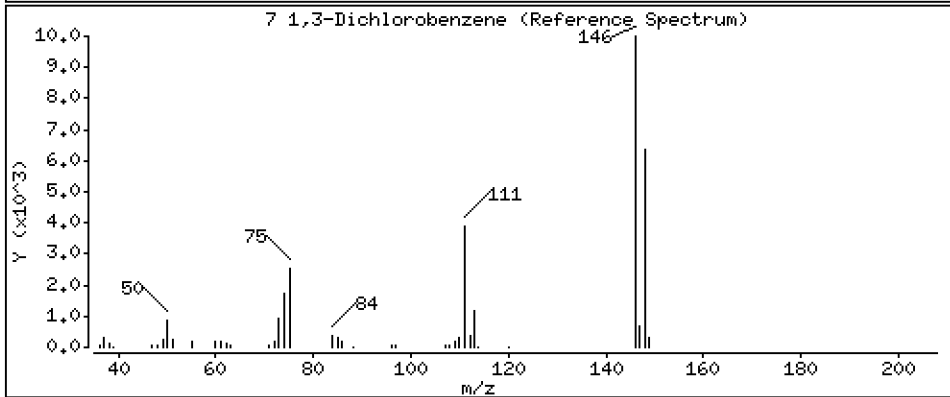
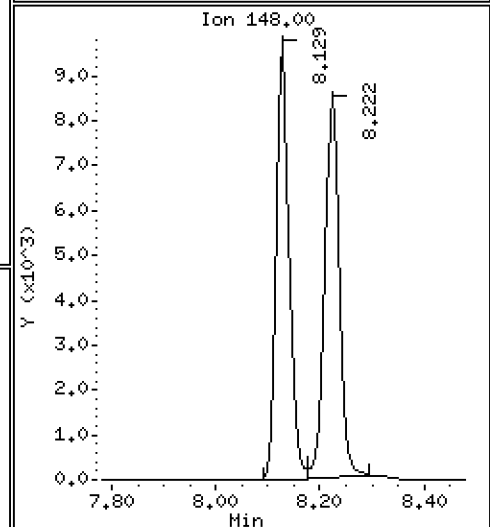
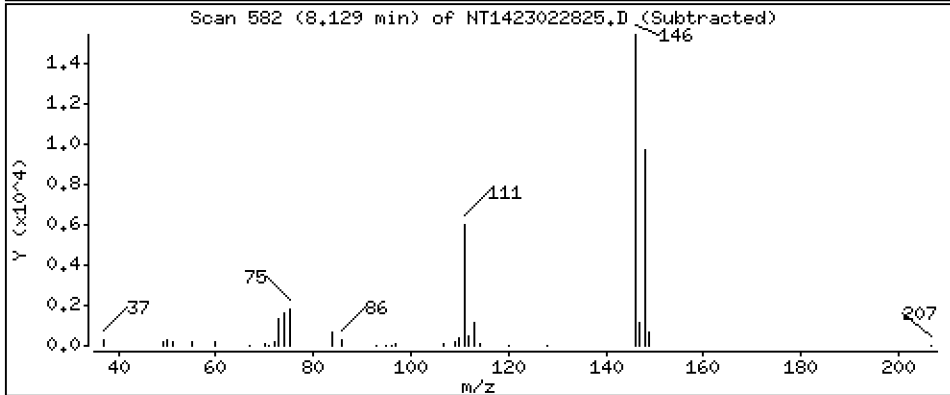
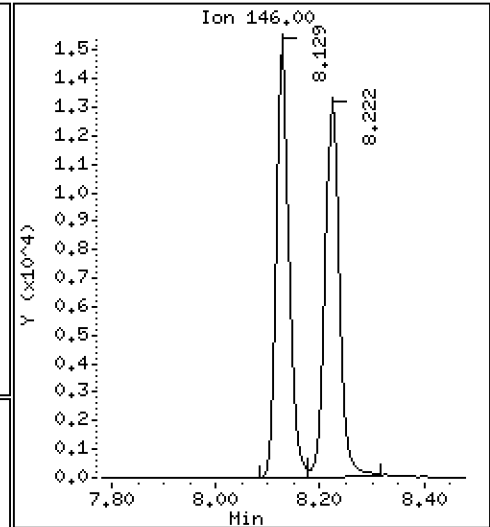
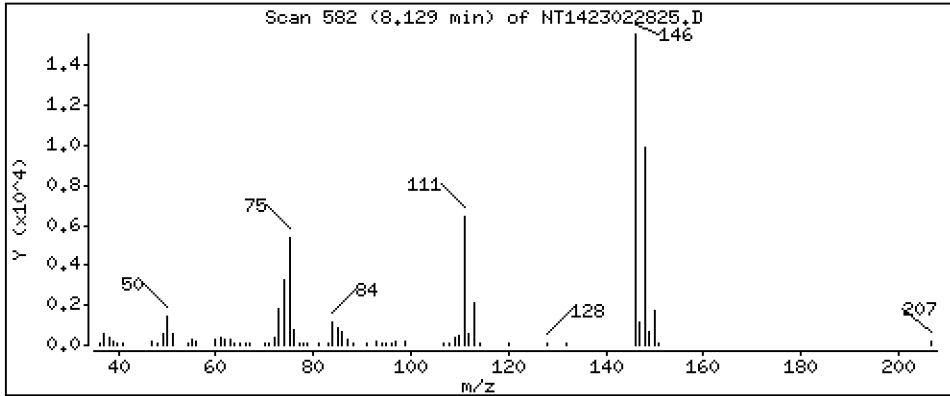
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

7 1,3-Dichlorobenzene

Concentration: 0,5258 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

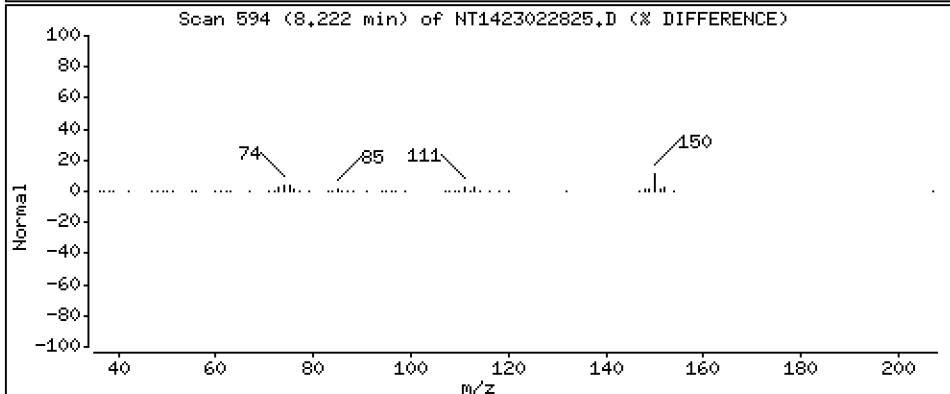
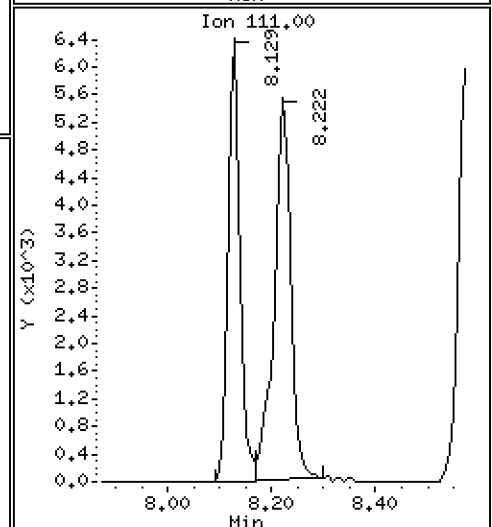
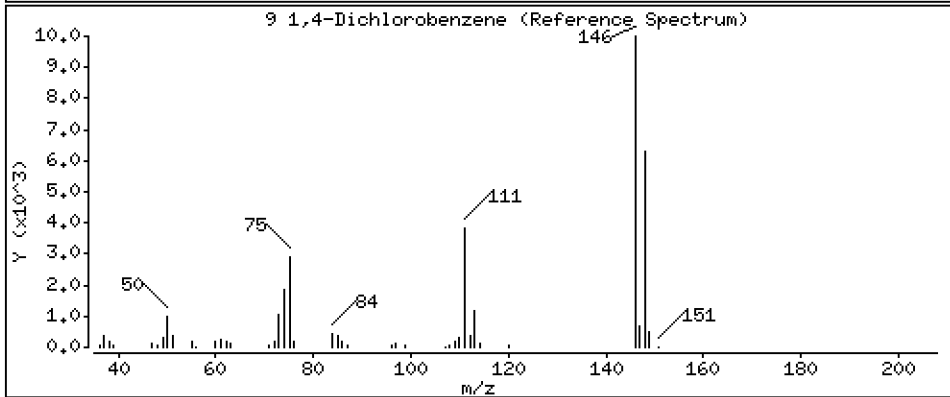
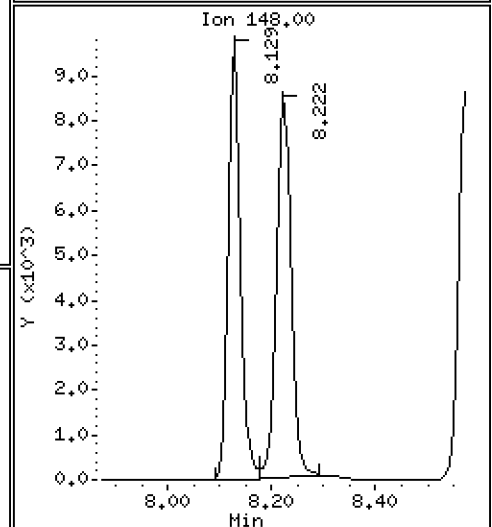
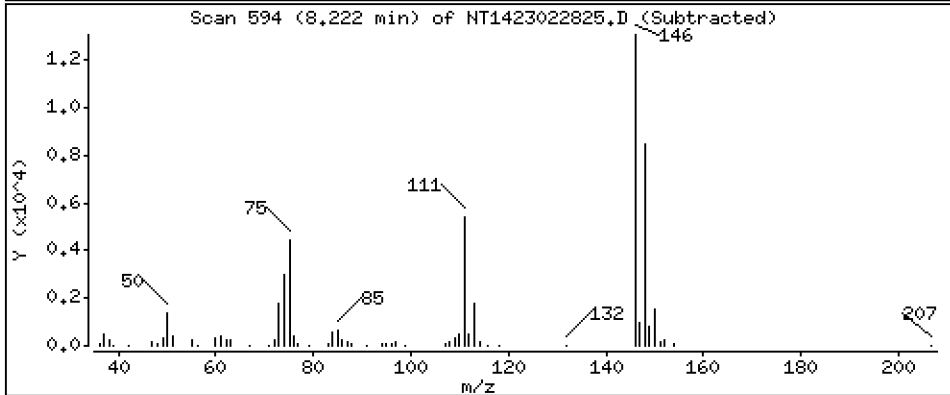
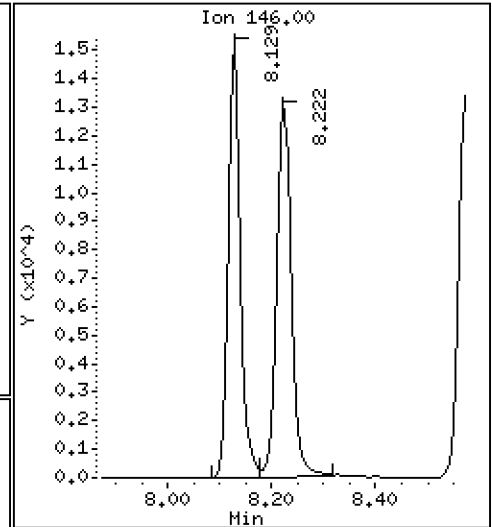
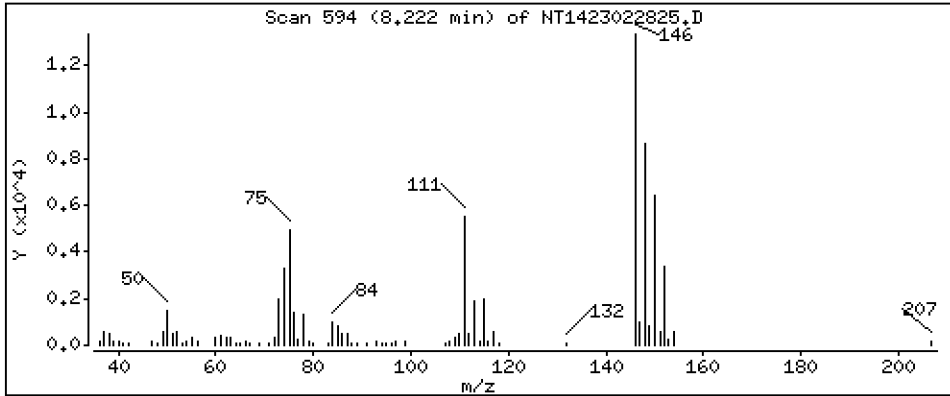
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 0,5052 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

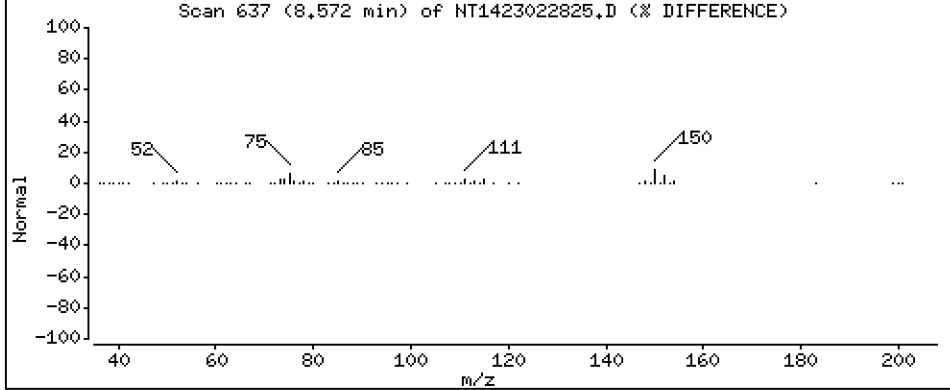
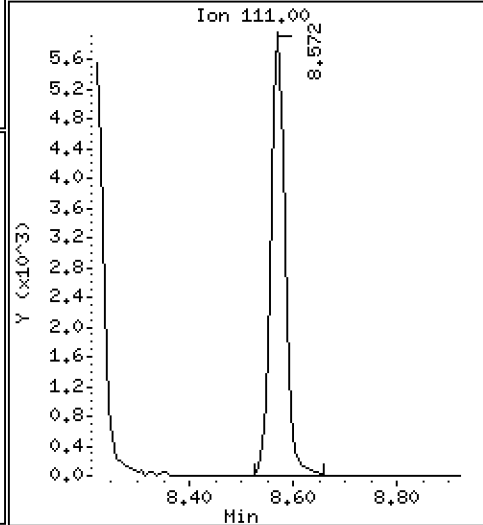
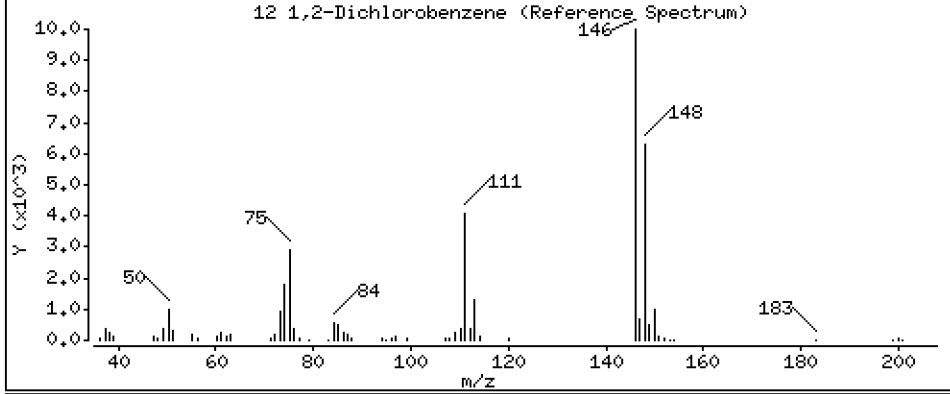
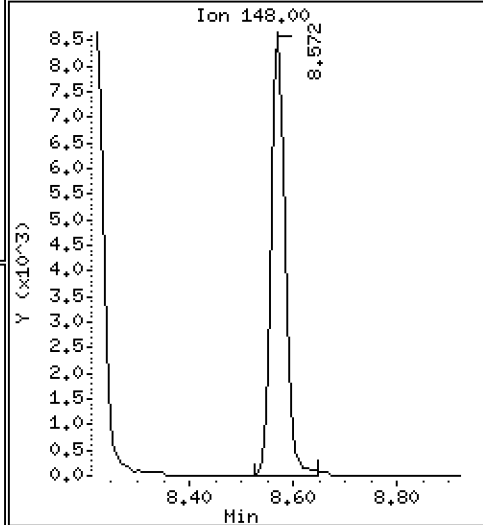
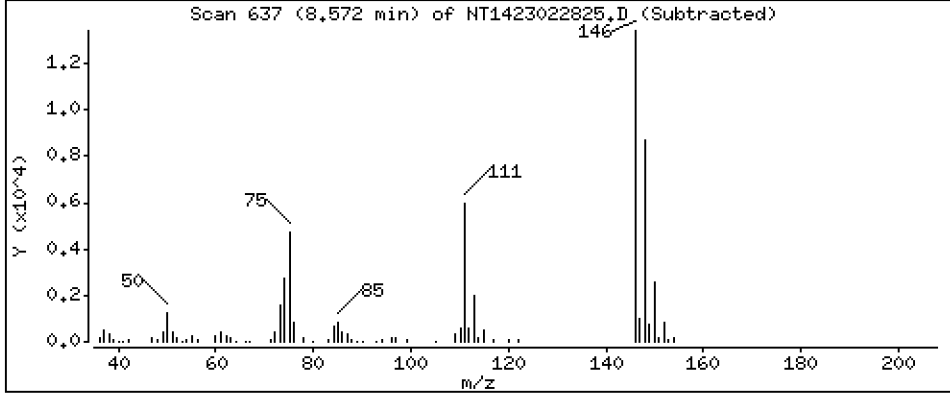
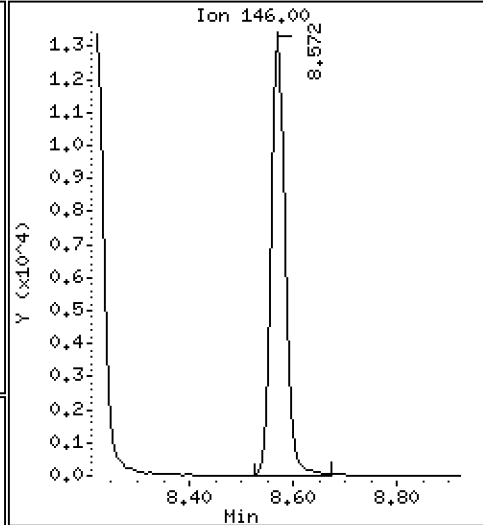
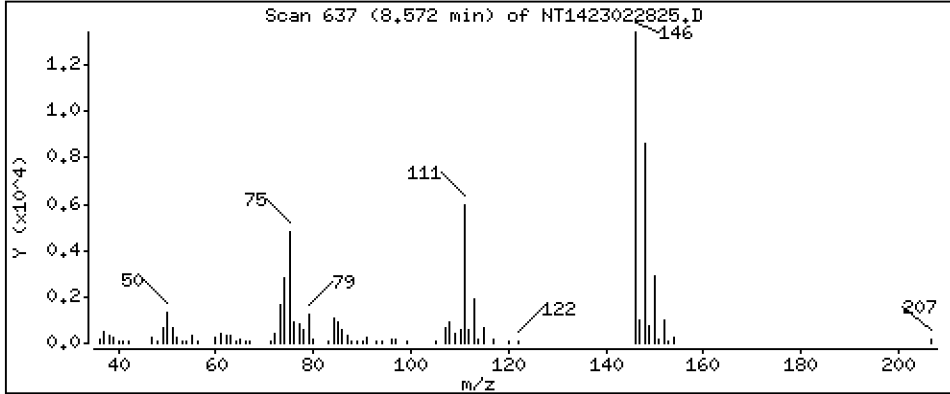
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

12 1,2-Dichlorobenzene

Concentration: 0.5209 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

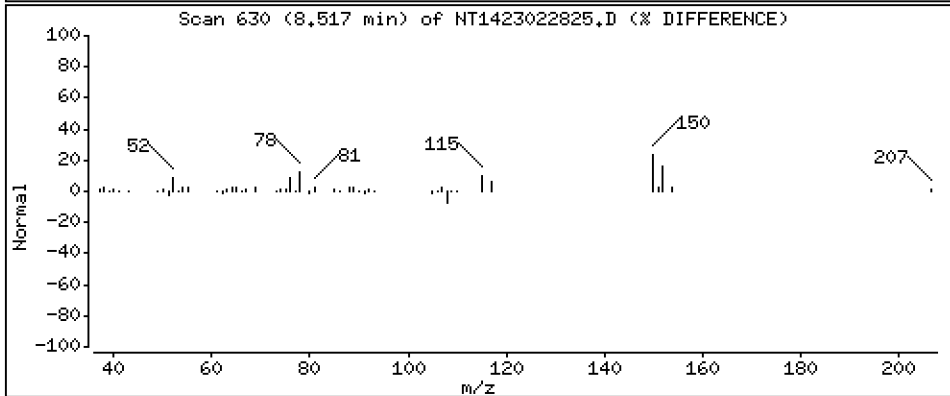
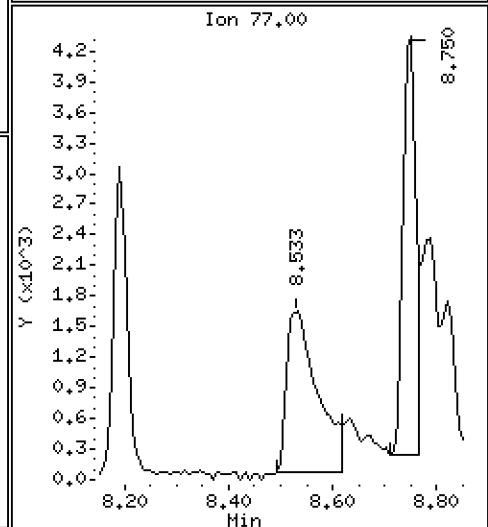
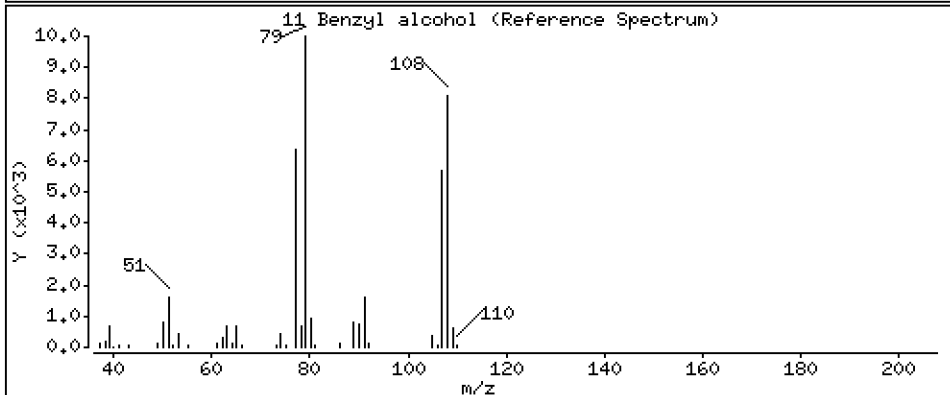
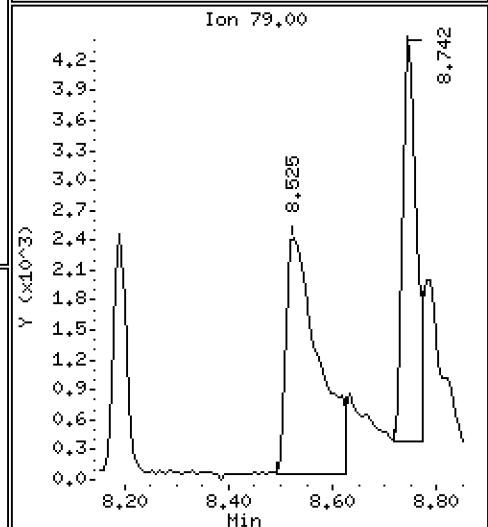
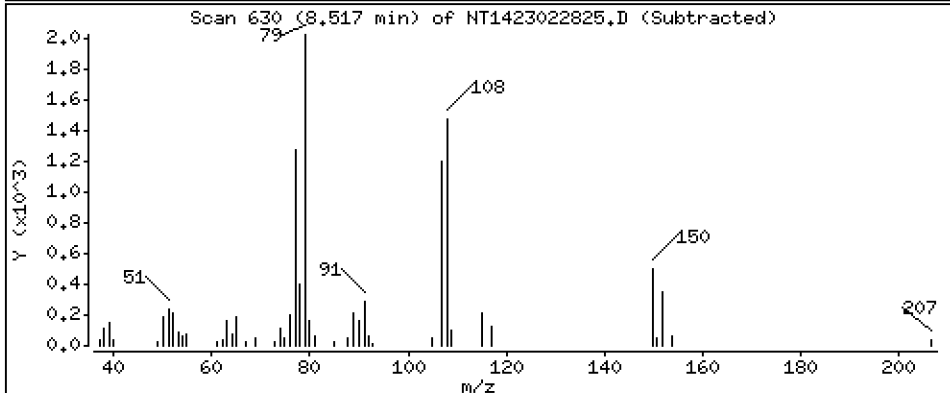
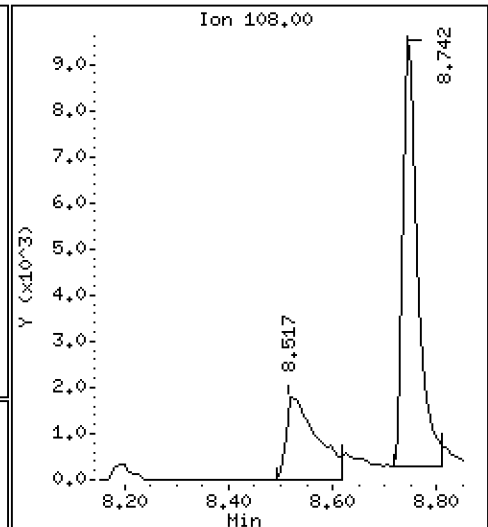
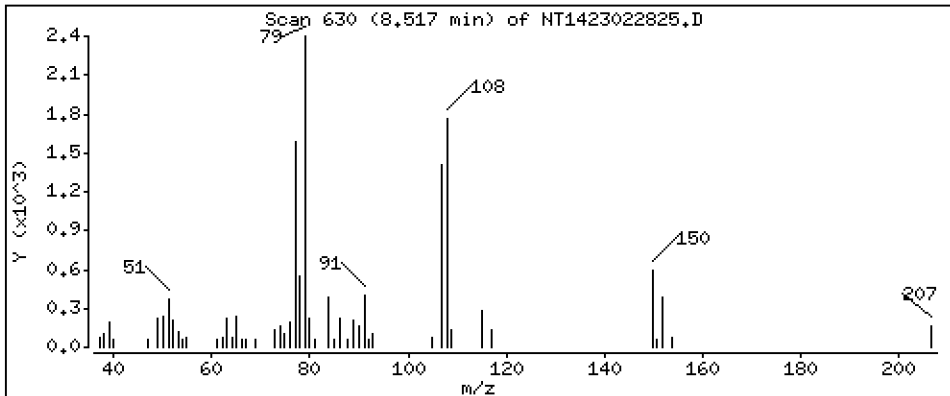
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 0.2878 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

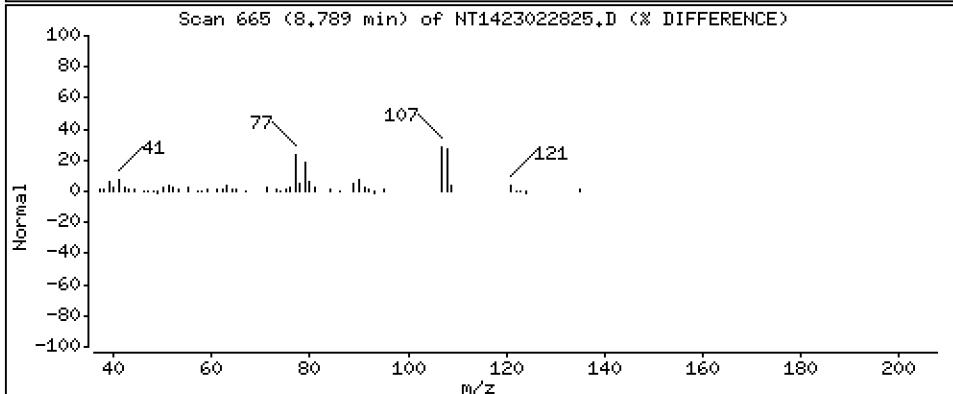
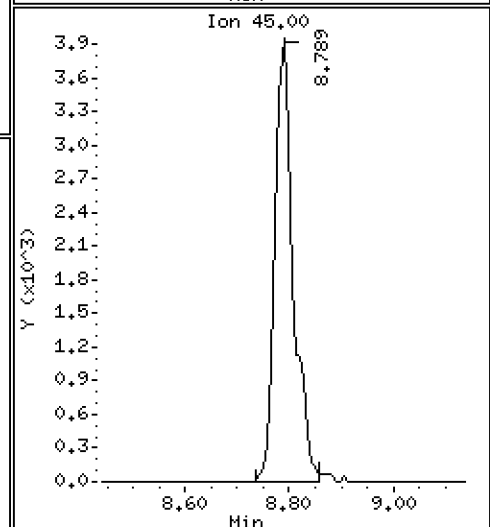
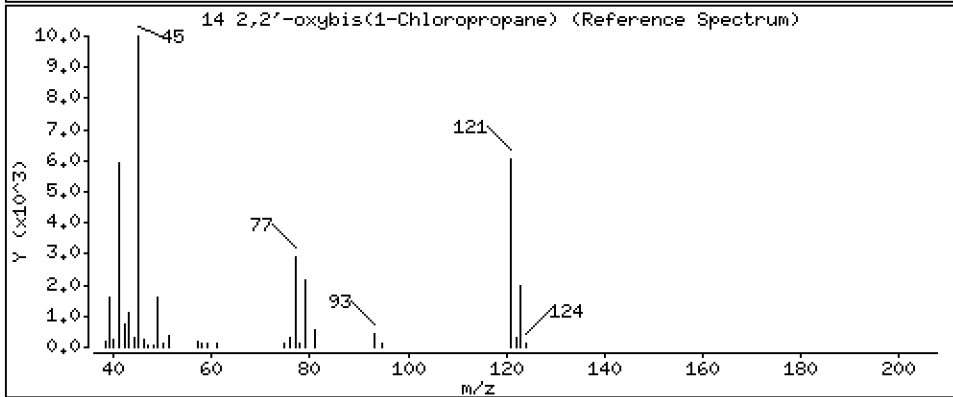
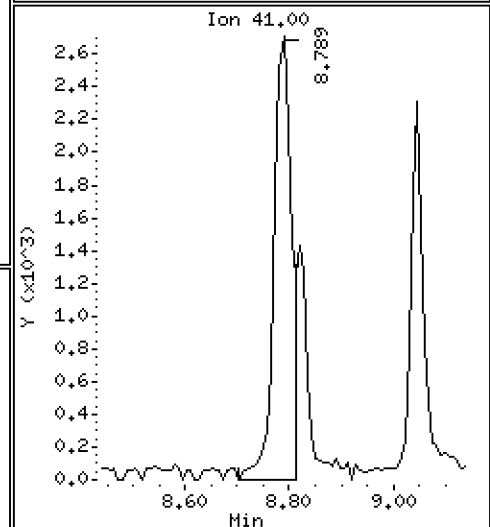
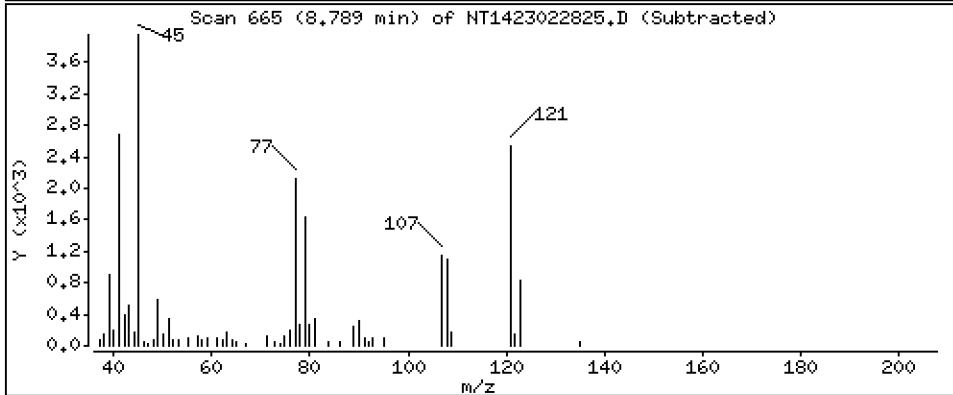
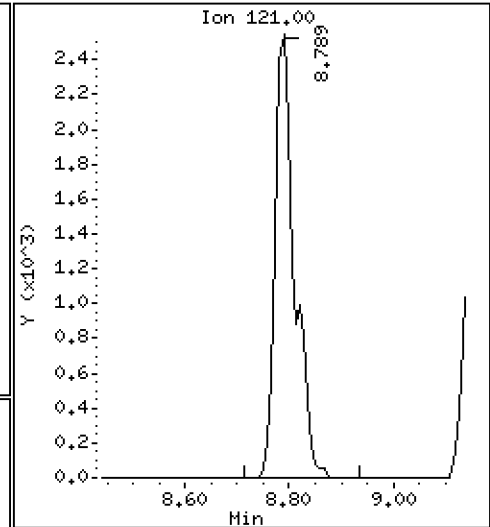
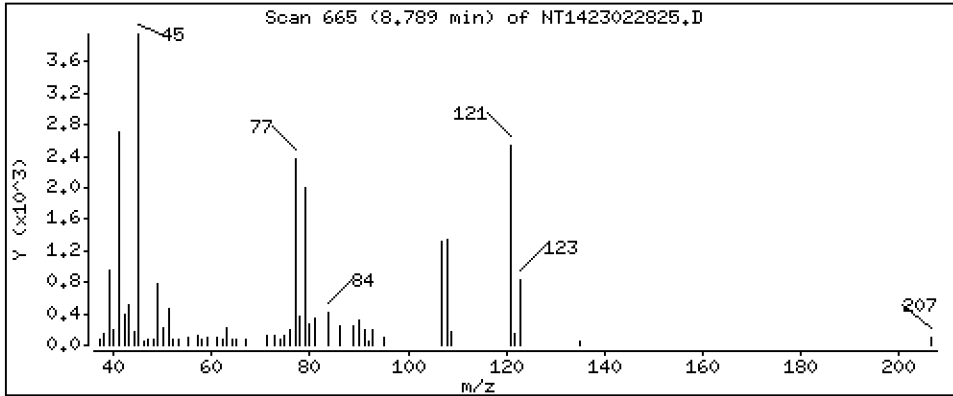
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 0,5218 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

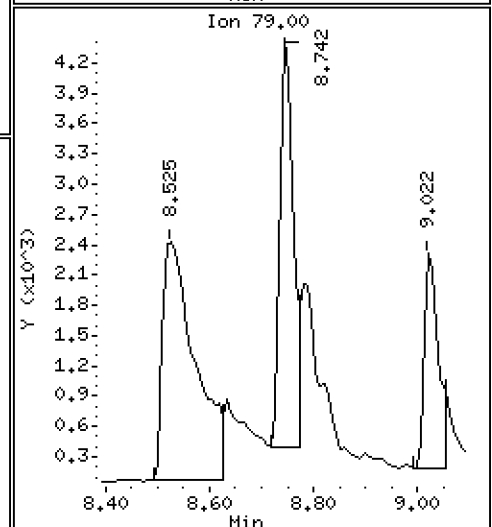
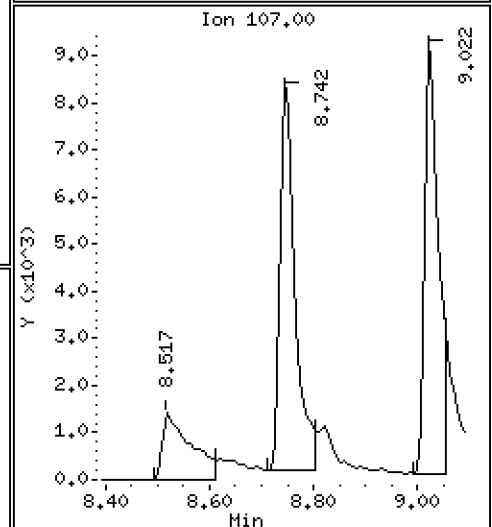
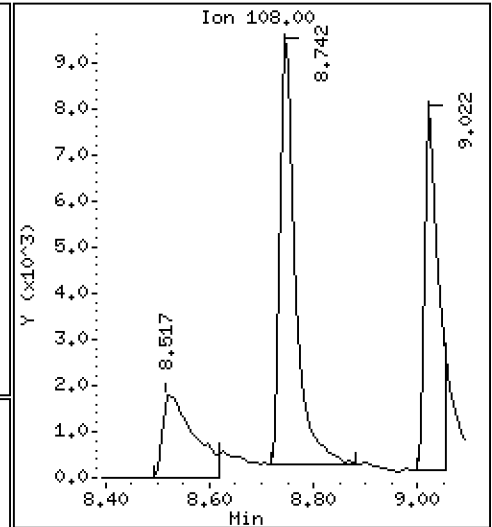
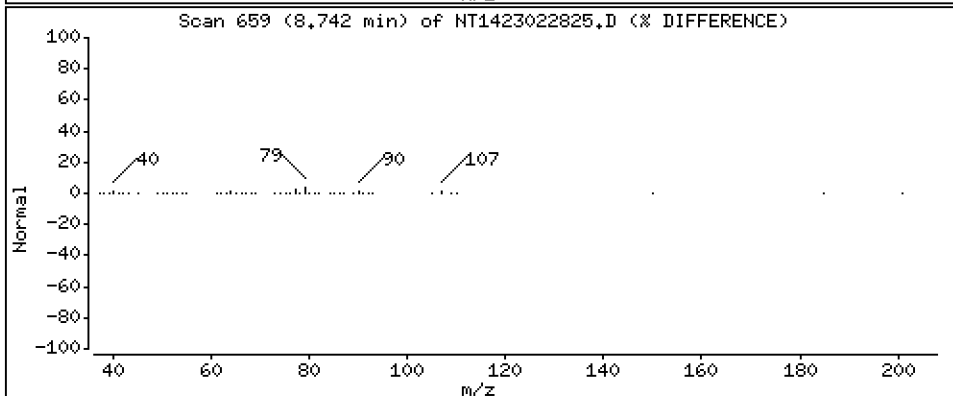
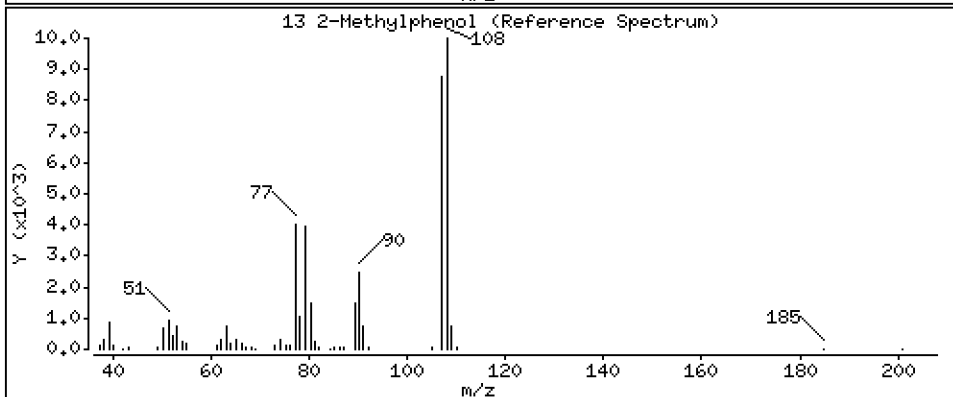
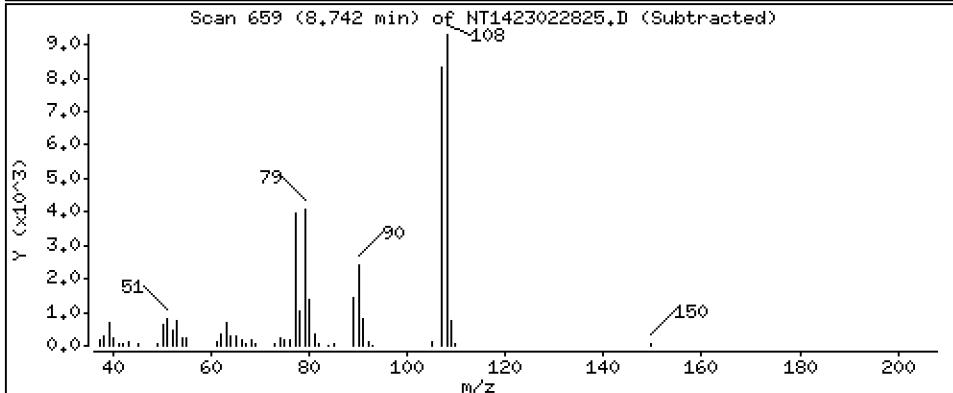
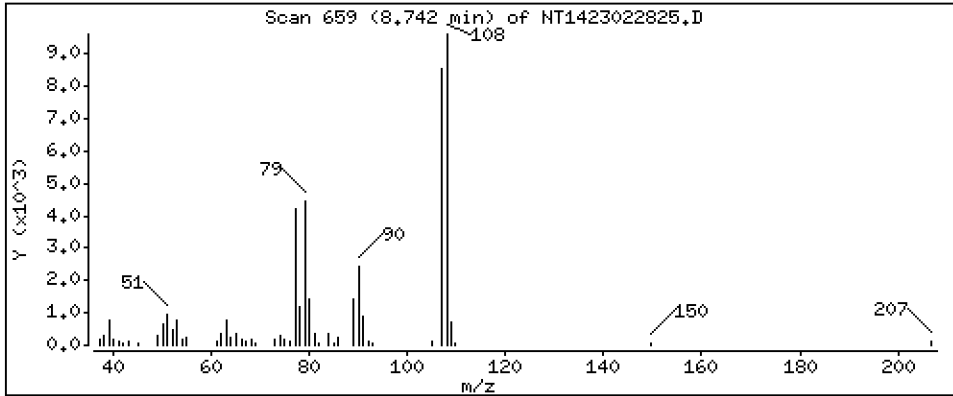
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

Concentration: 0,4938 ug/mL

13 2-Methylphenol



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

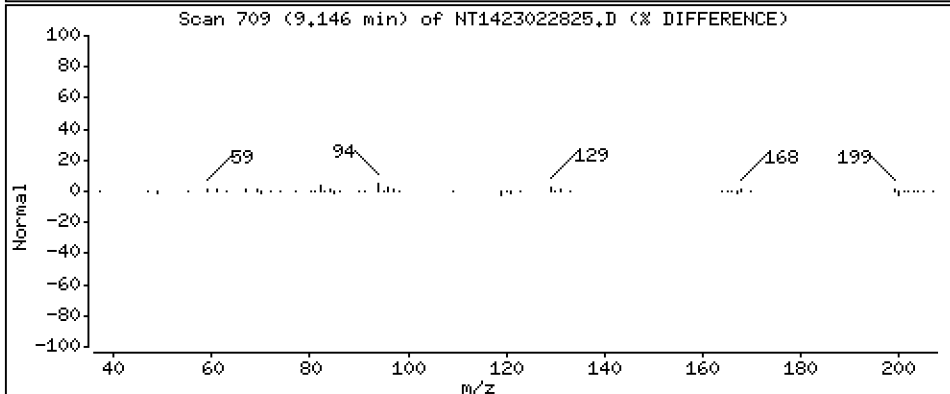
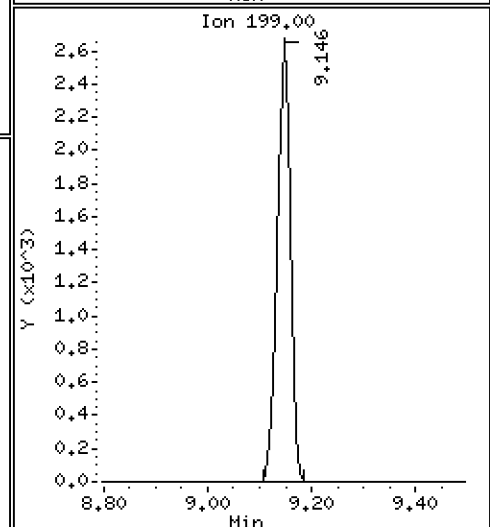
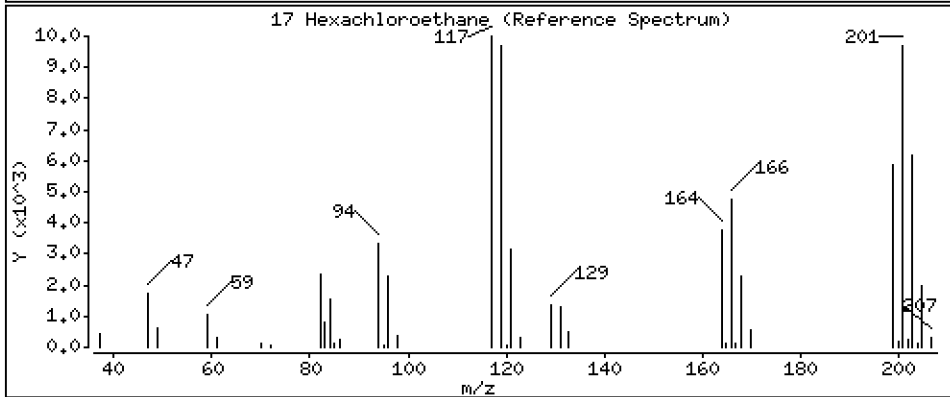
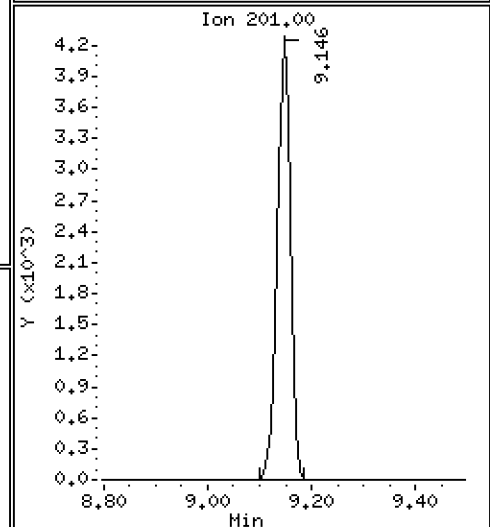
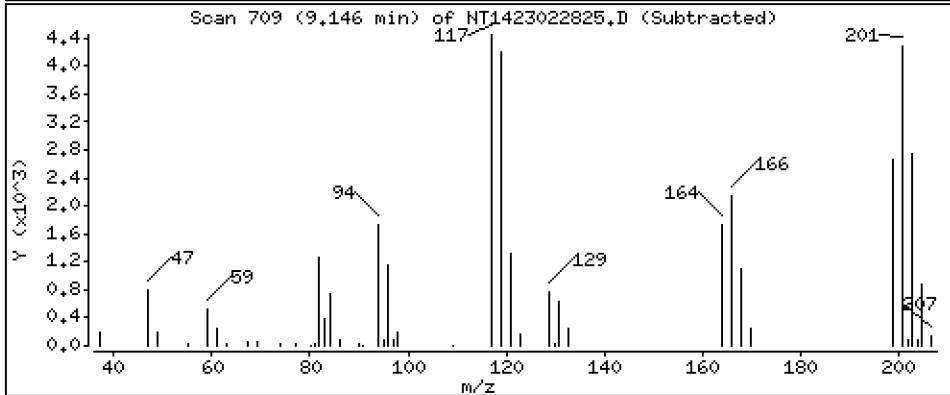
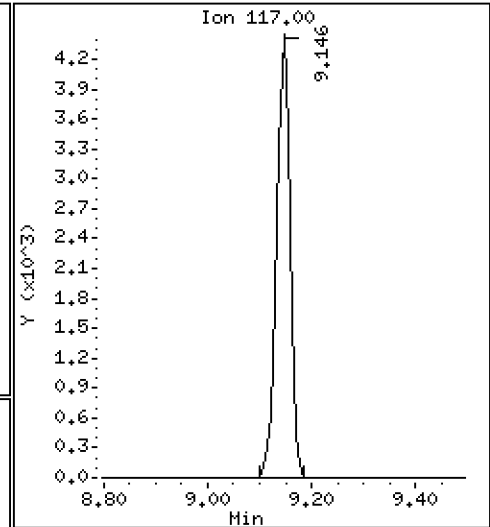
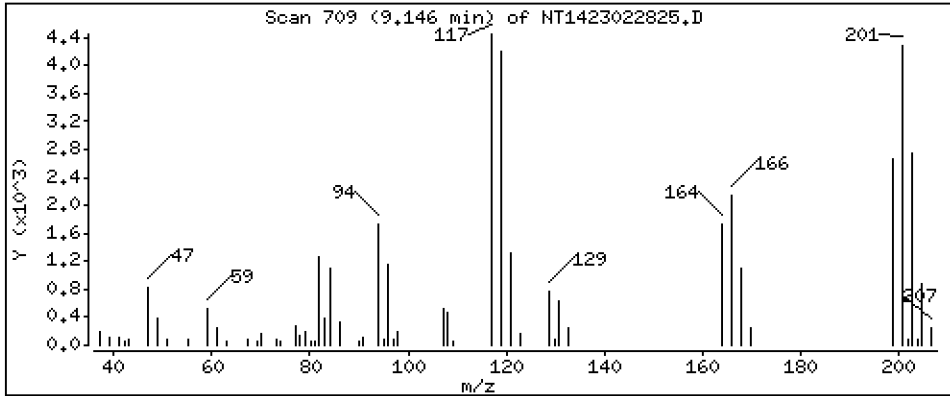
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

17 Hexachloroethane

Concentration: 0,4200 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

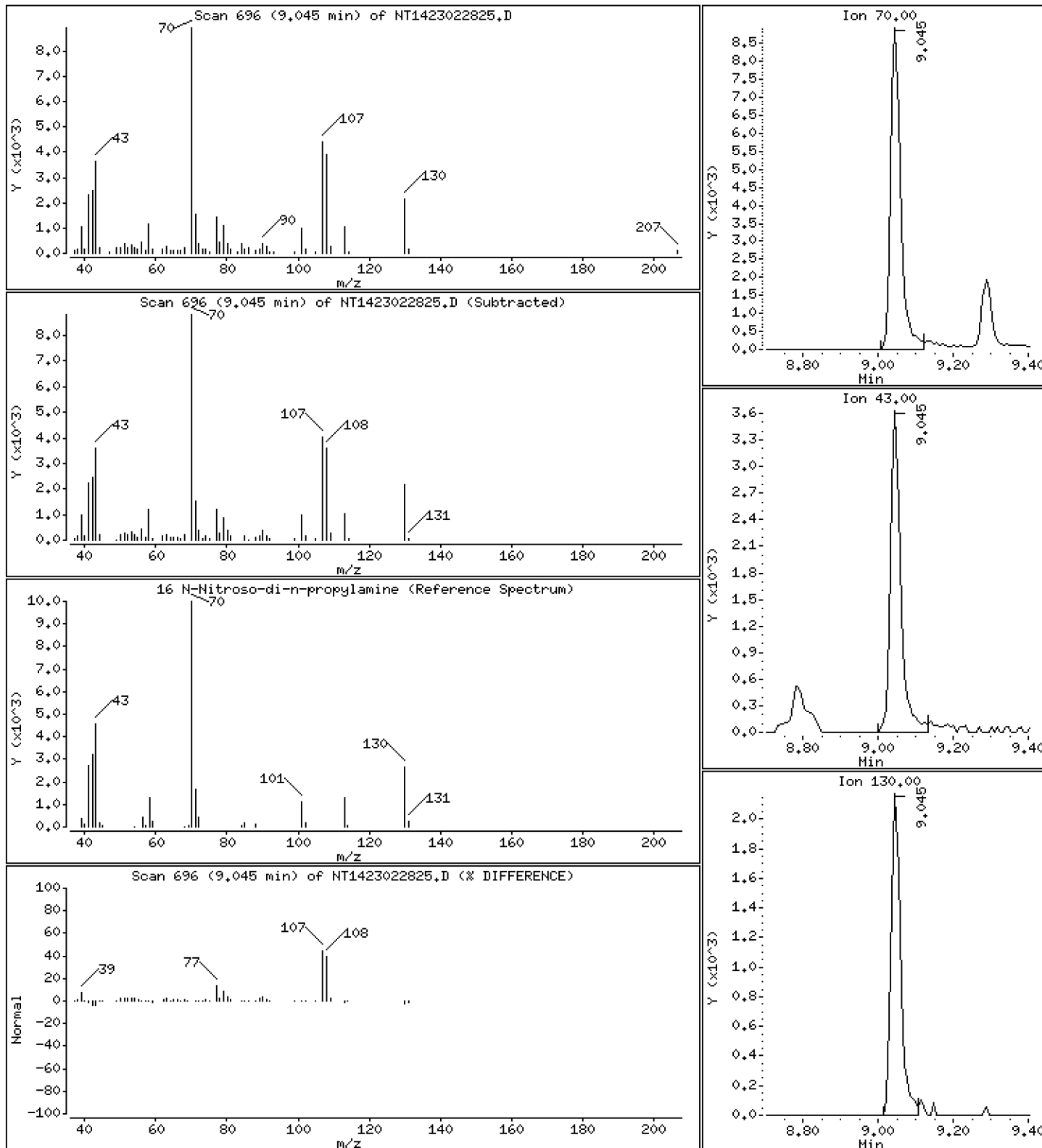
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

16 N-Nitroso-di-n-propylamine

Concentration: 0,5482 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

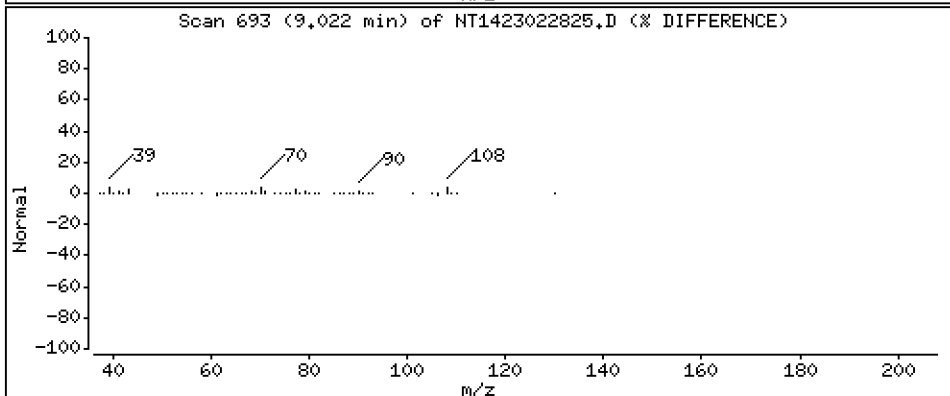
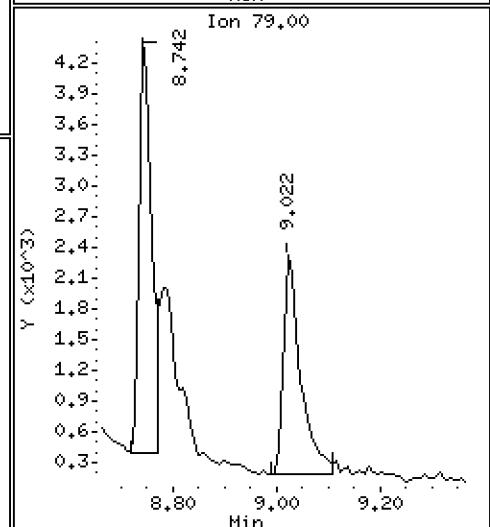
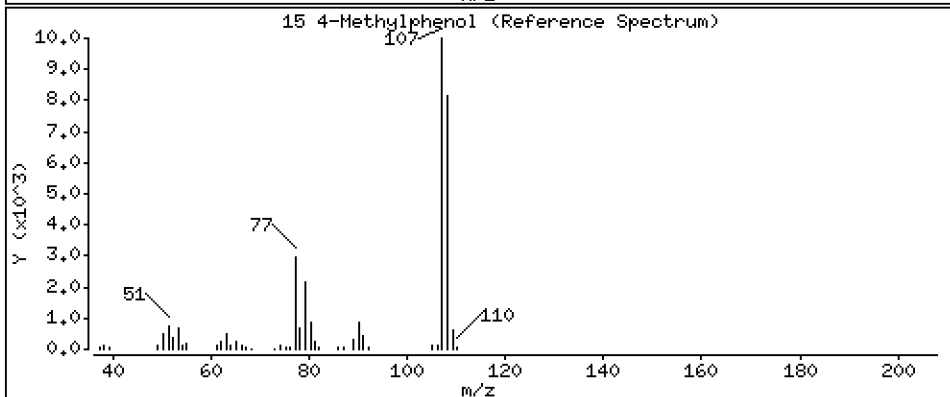
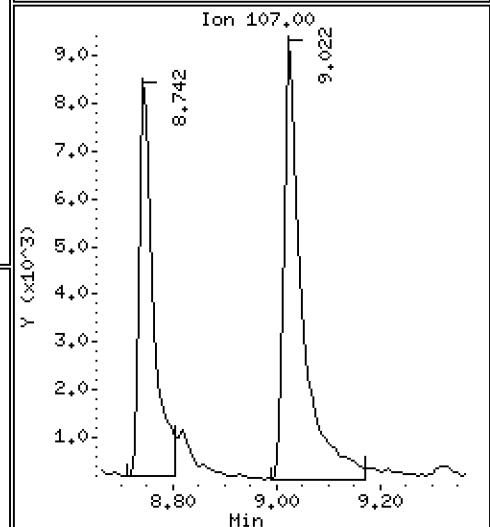
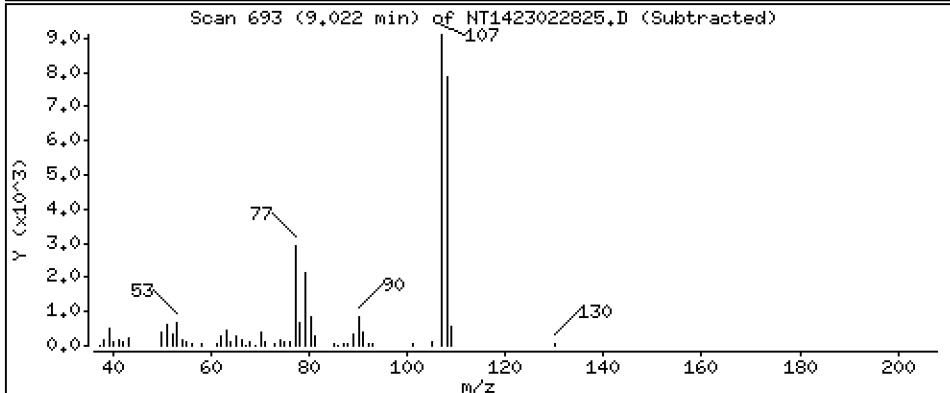
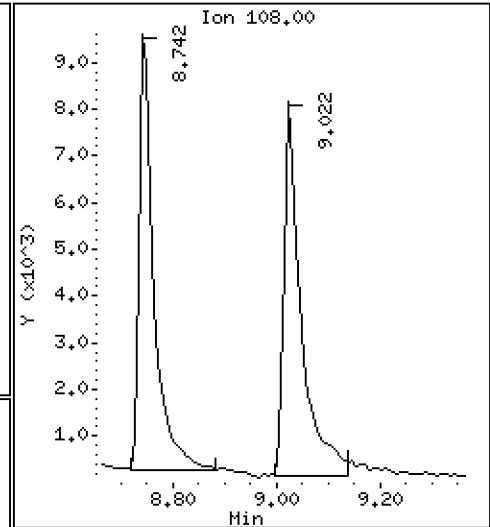
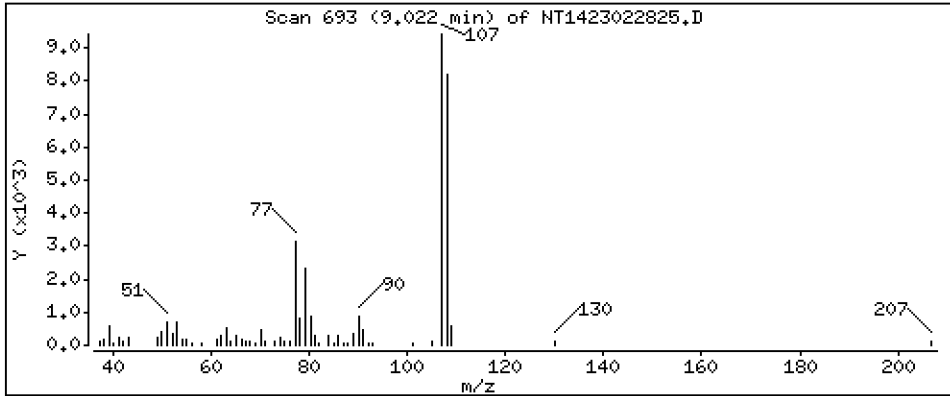
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 0.4219 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

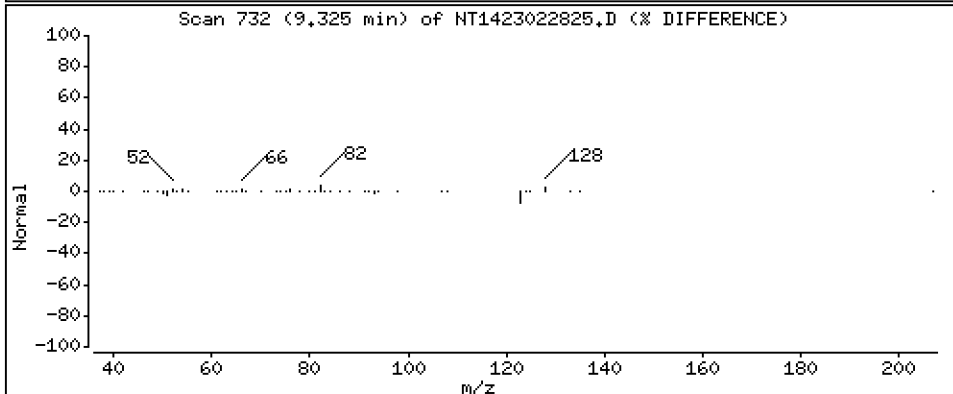
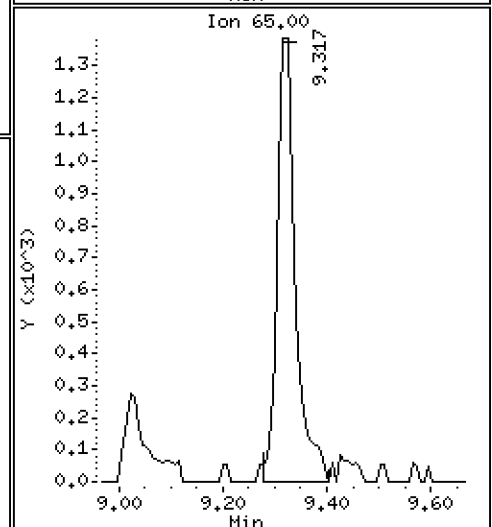
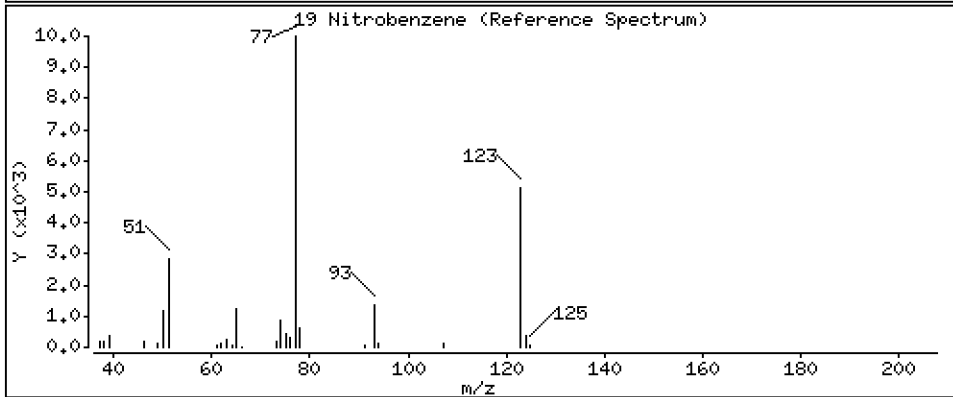
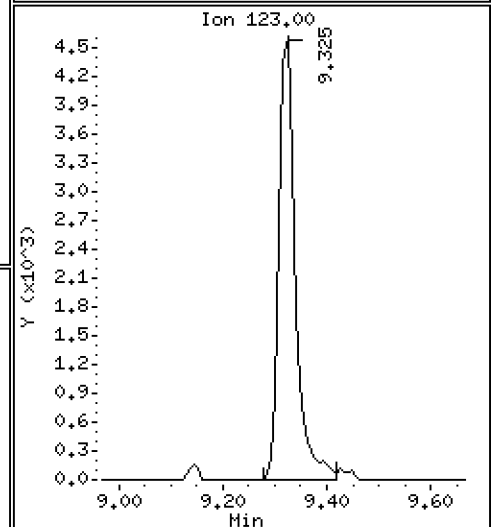
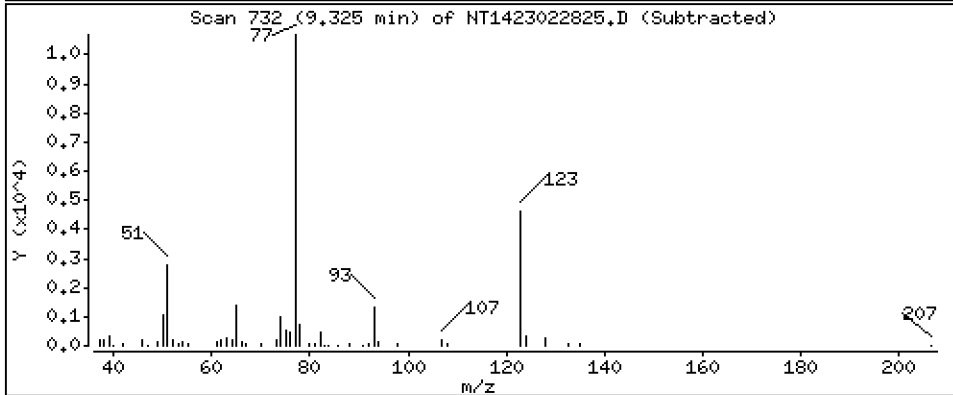
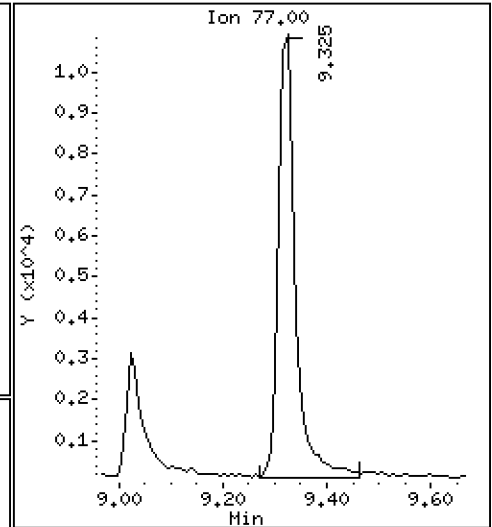
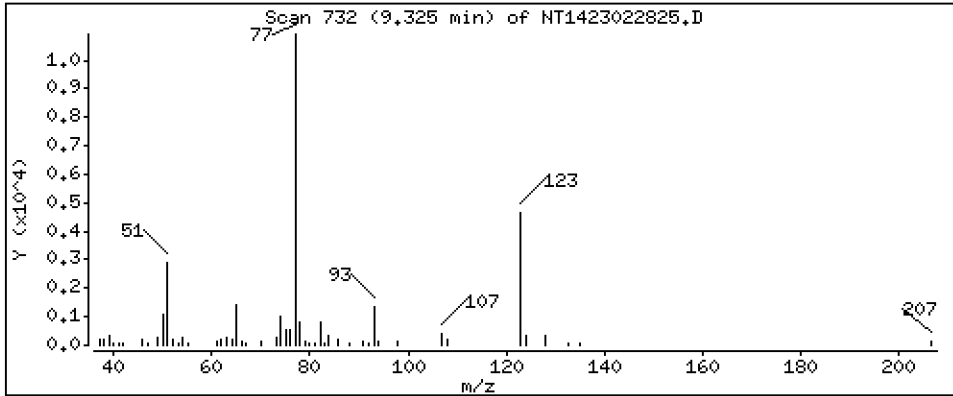
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

19 Nitrobenzene

Concentration: 0,5504 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

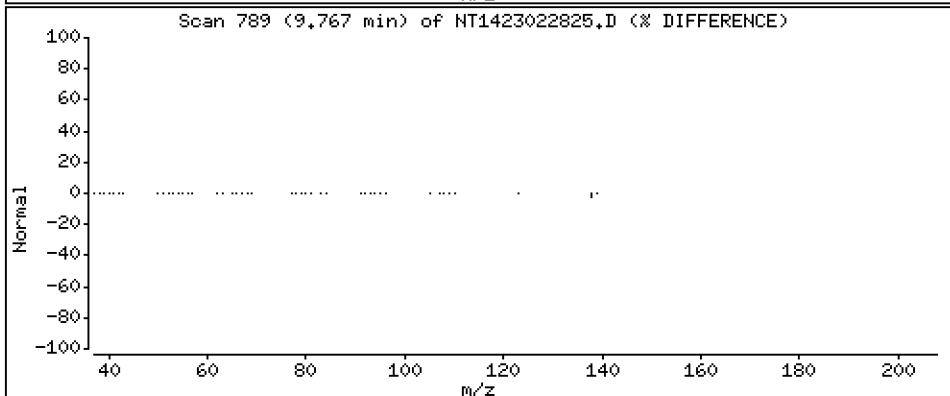
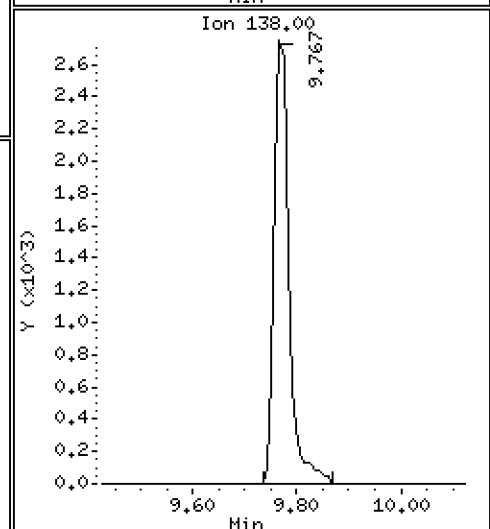
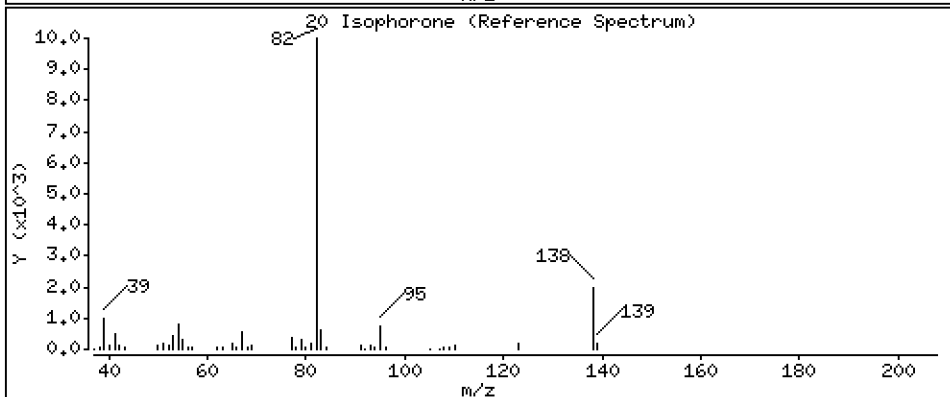
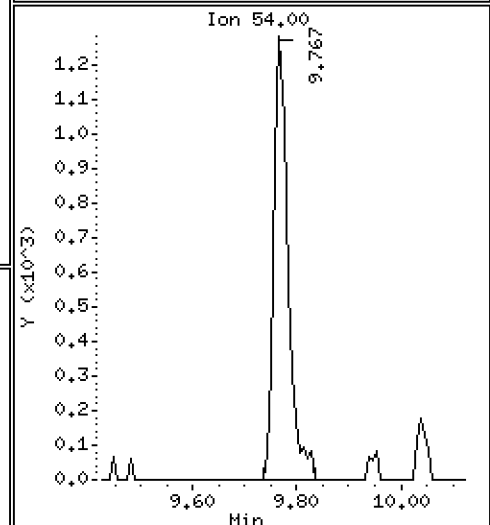
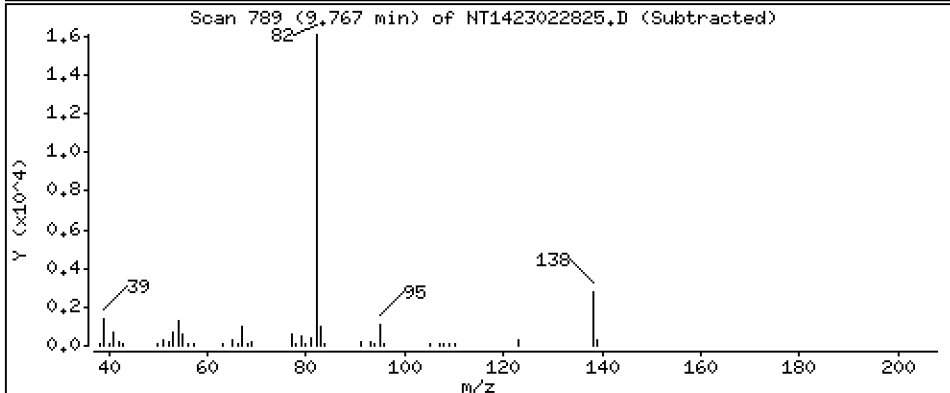
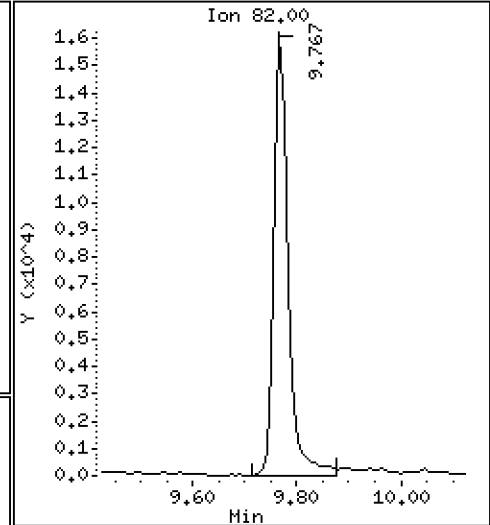
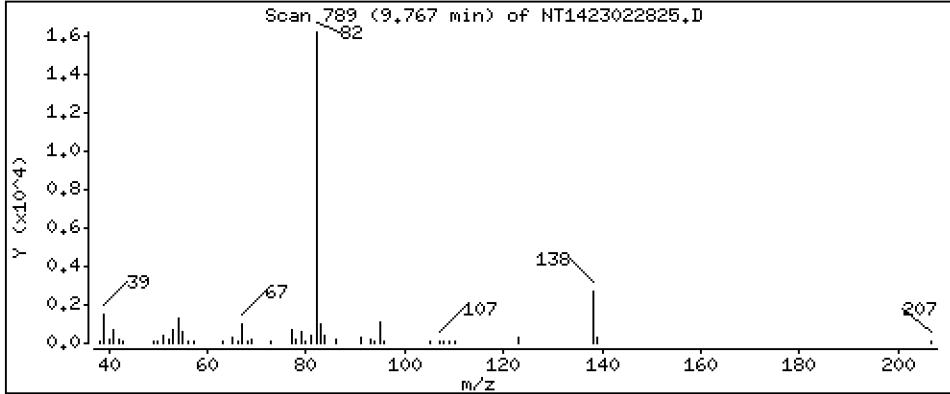
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

20 Isophorone

Concentration: 0.4338 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

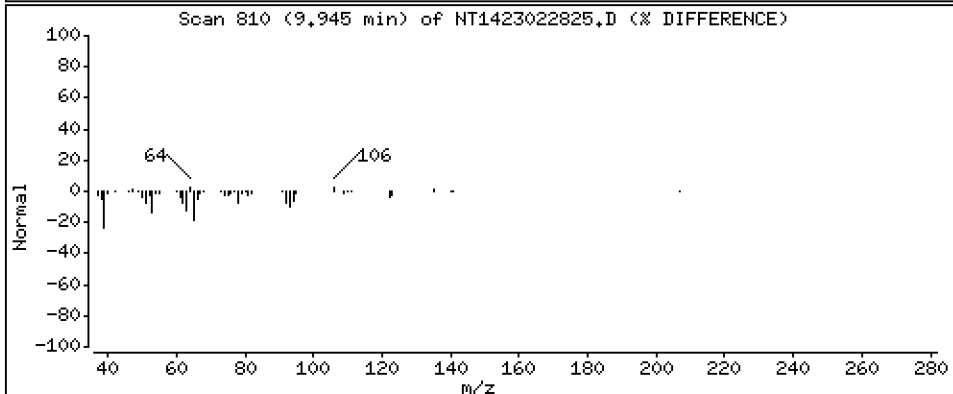
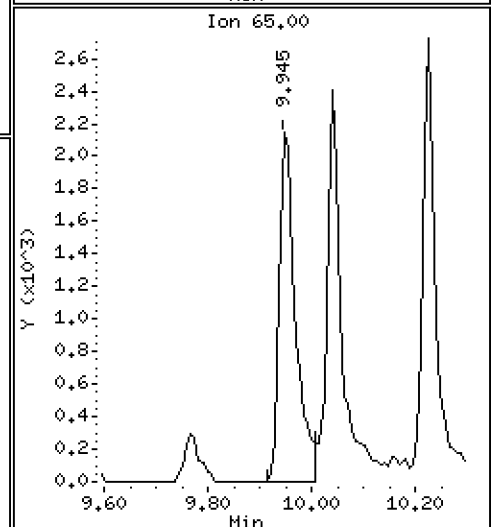
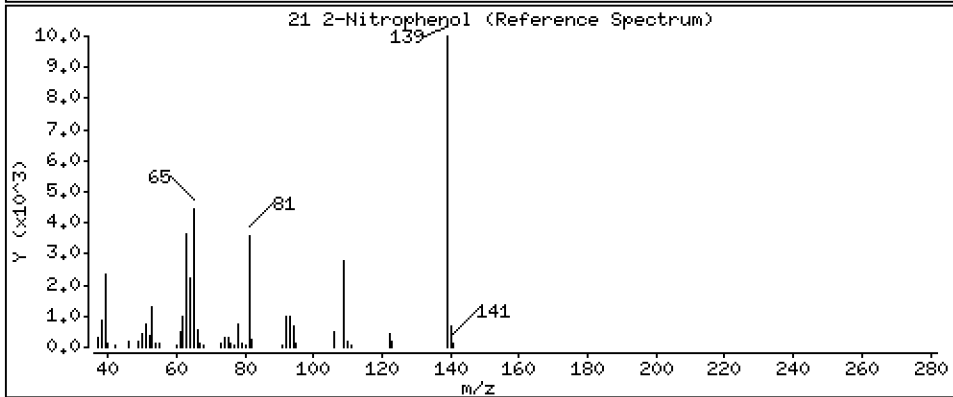
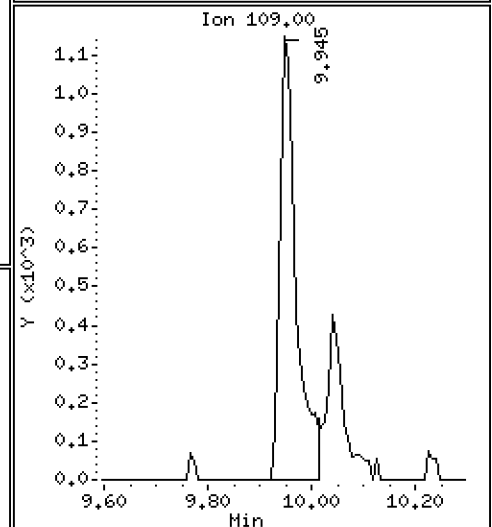
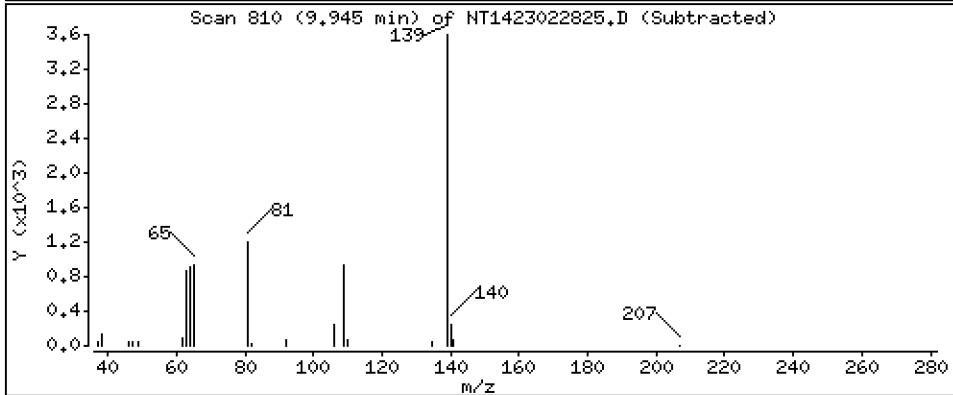
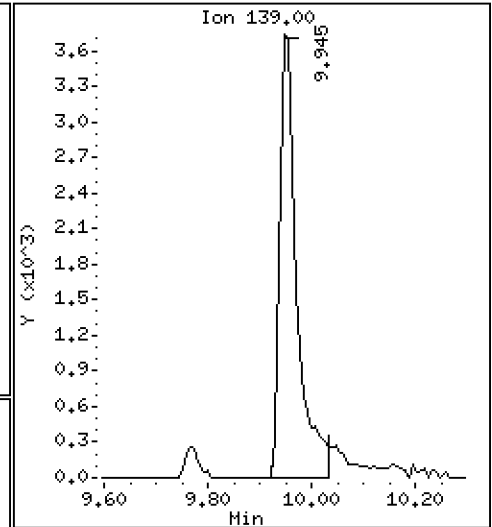
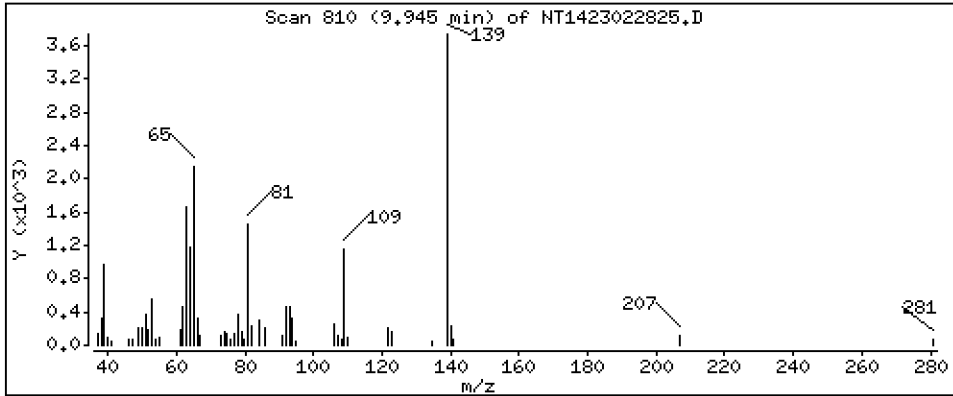
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

21 2-Nitrophenol

Concentration: 0.3734 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

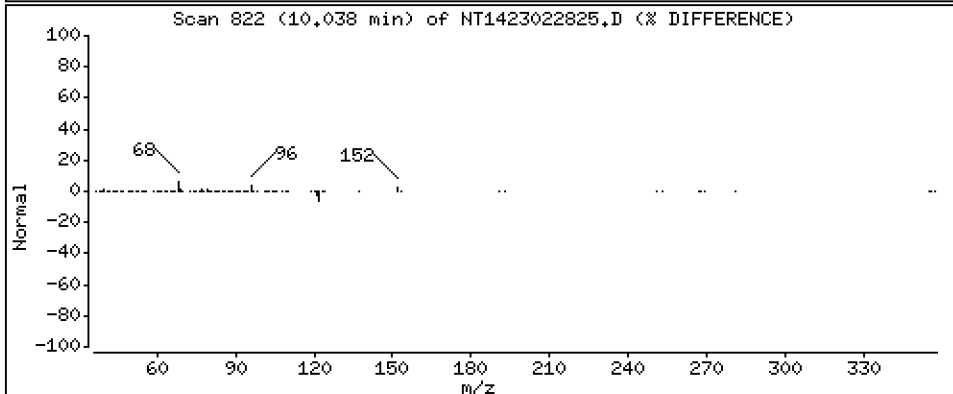
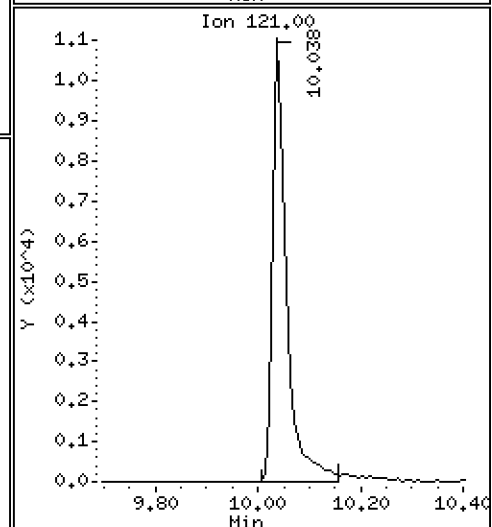
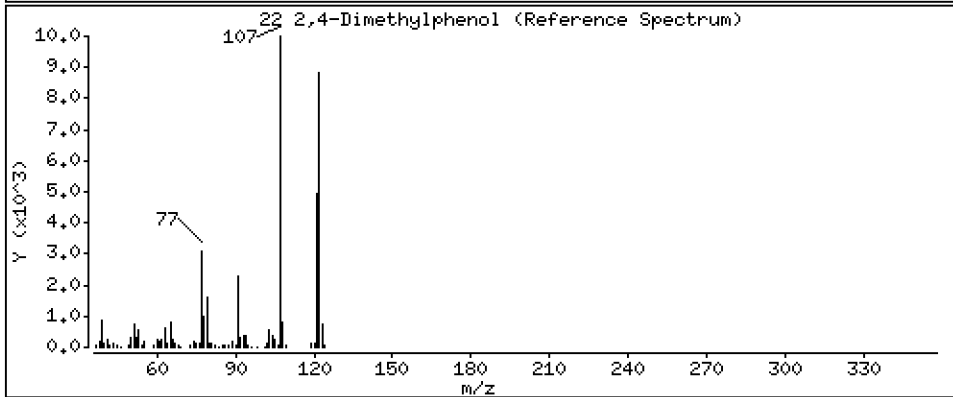
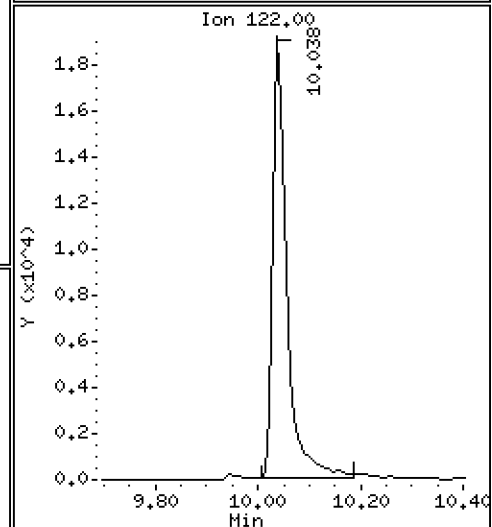
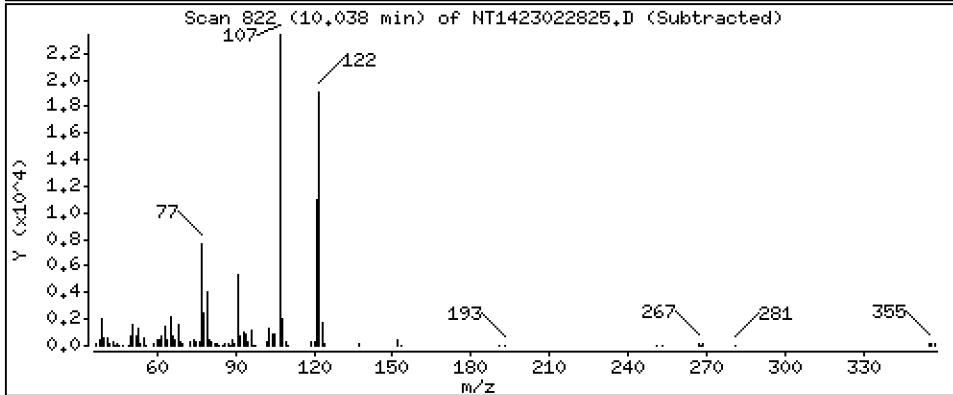
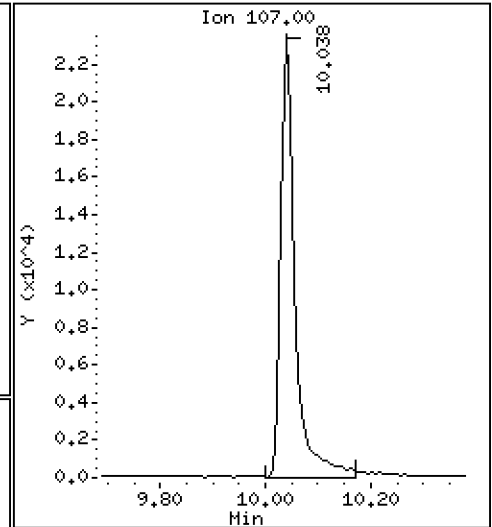
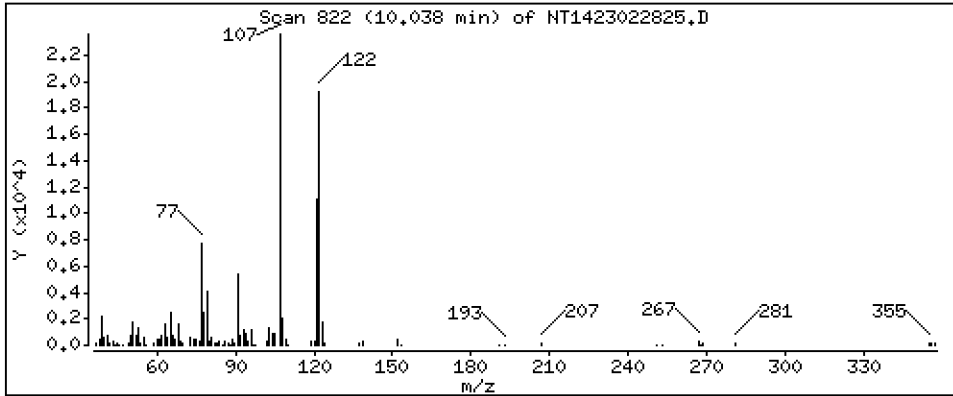
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 1,096 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

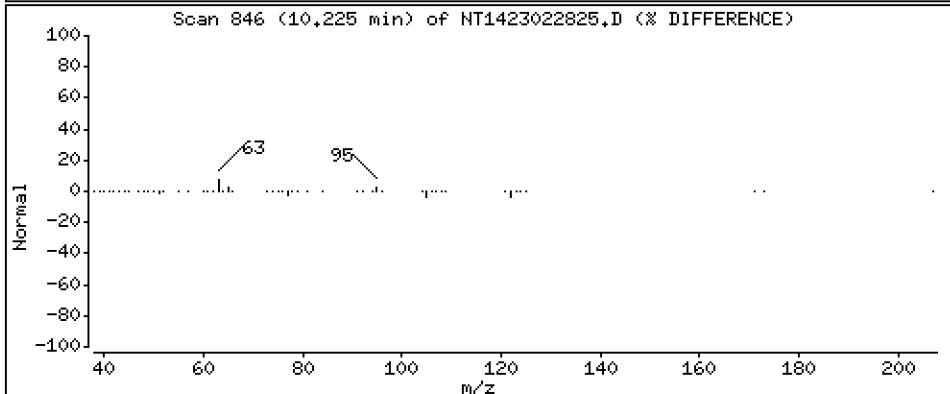
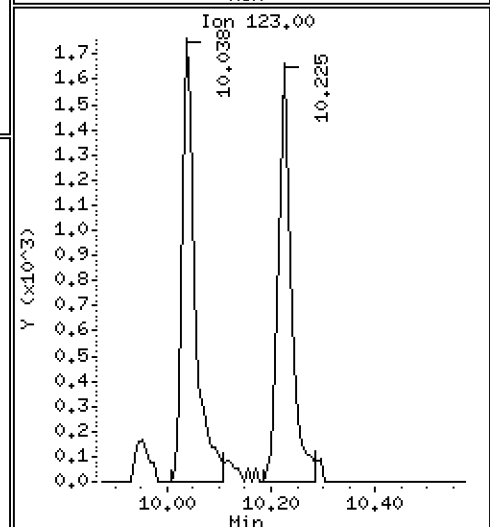
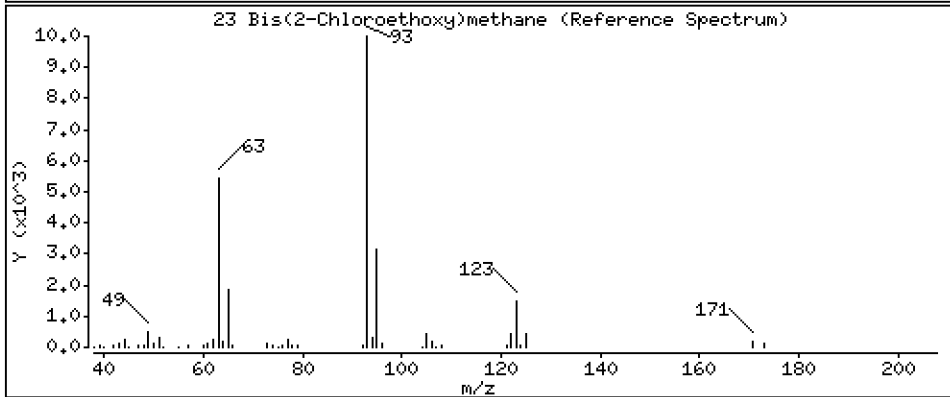
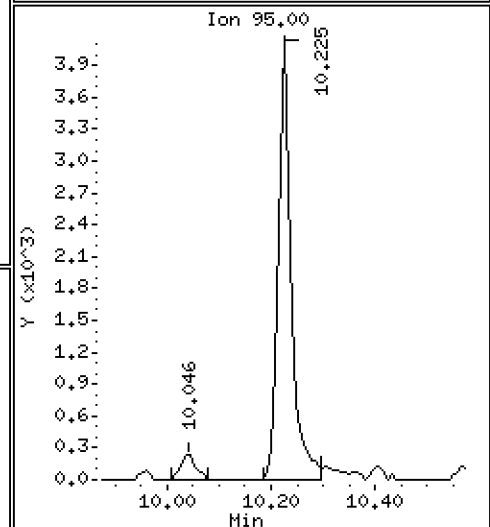
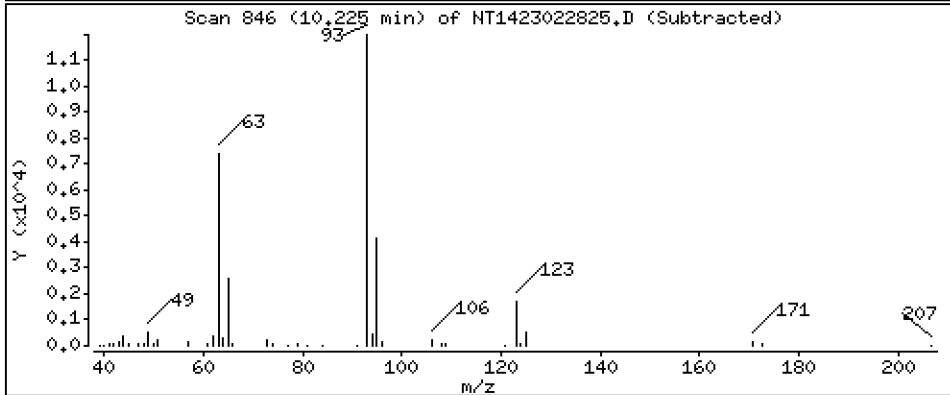
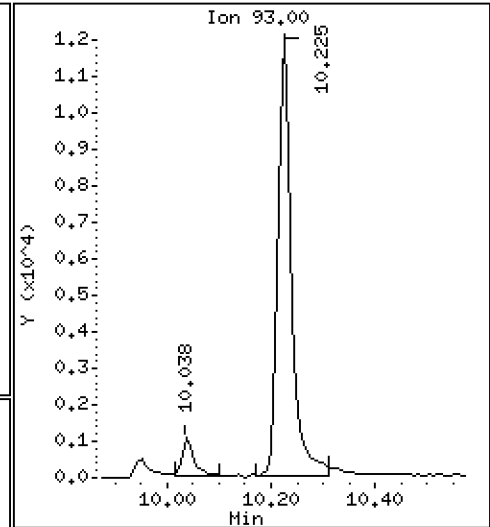
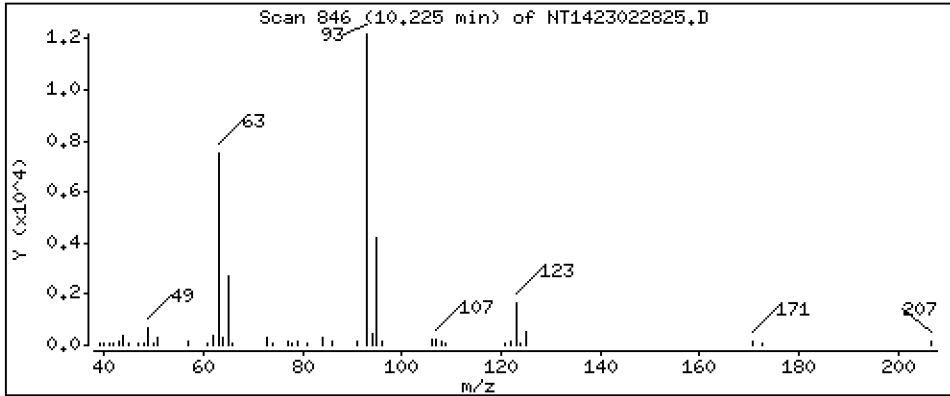
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

23 Bis(2-Chloroethoxy)methane

Concentration: 0,4979 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

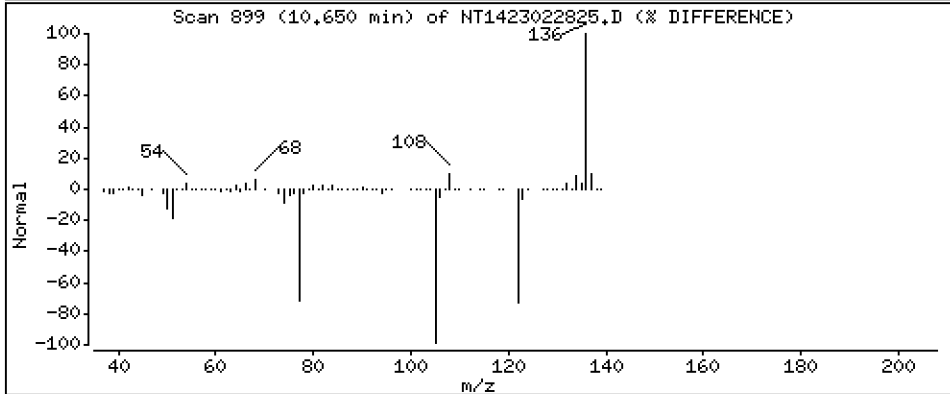
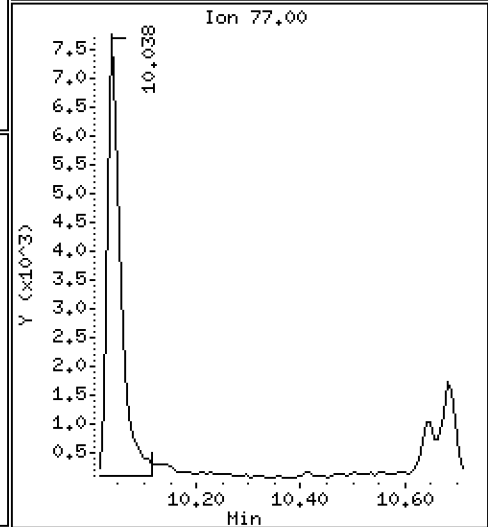
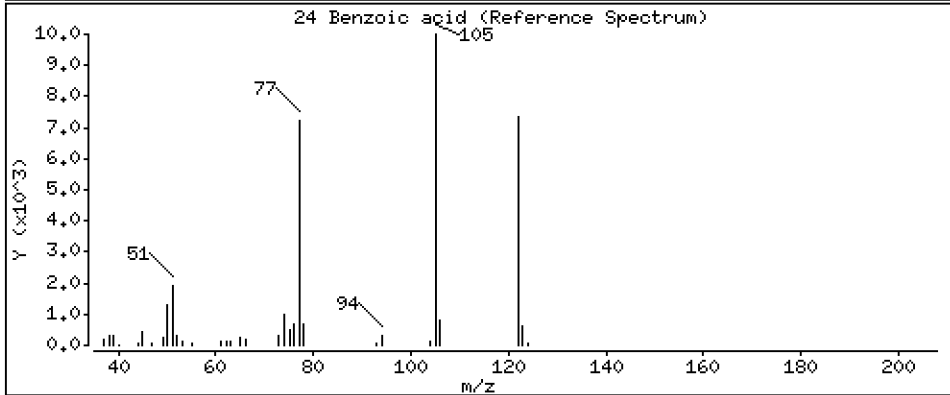
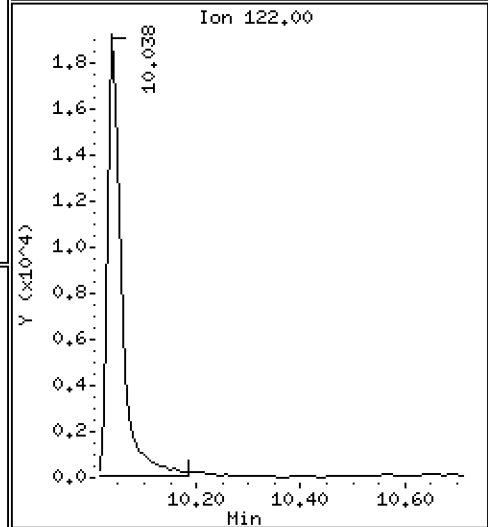
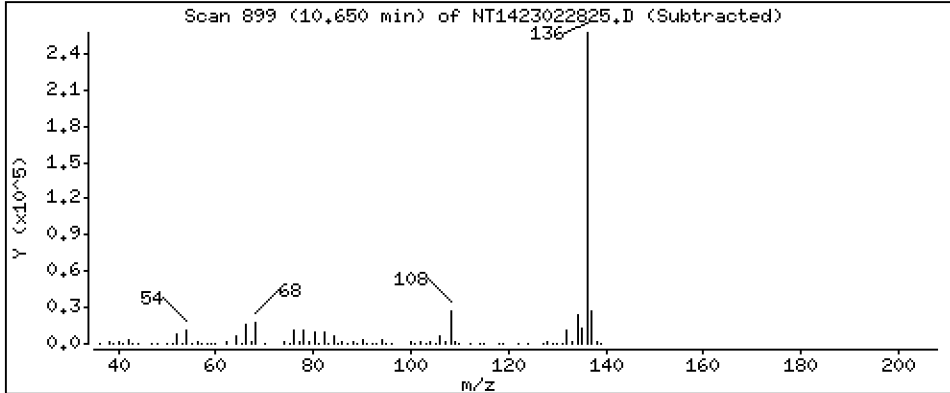
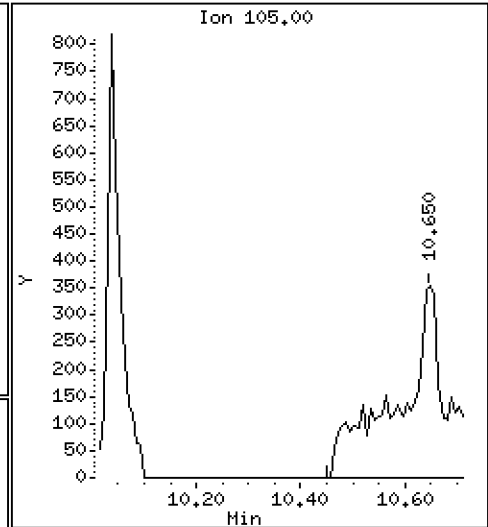
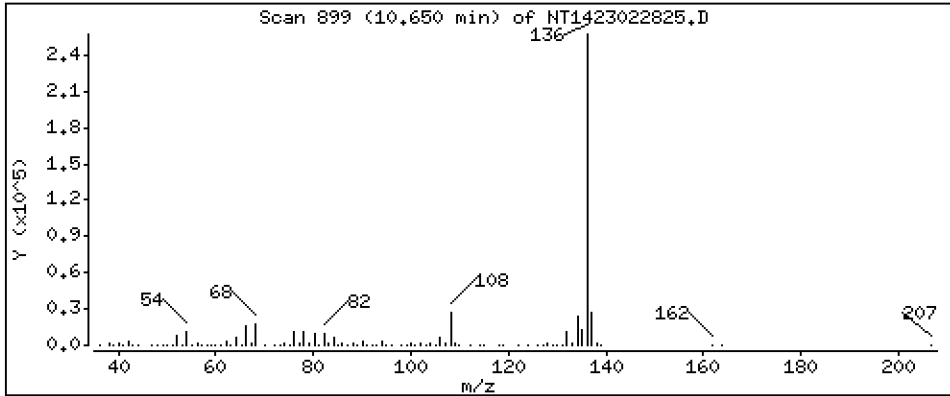
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

24 Benzoic acid

Concentration: 0.5672 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

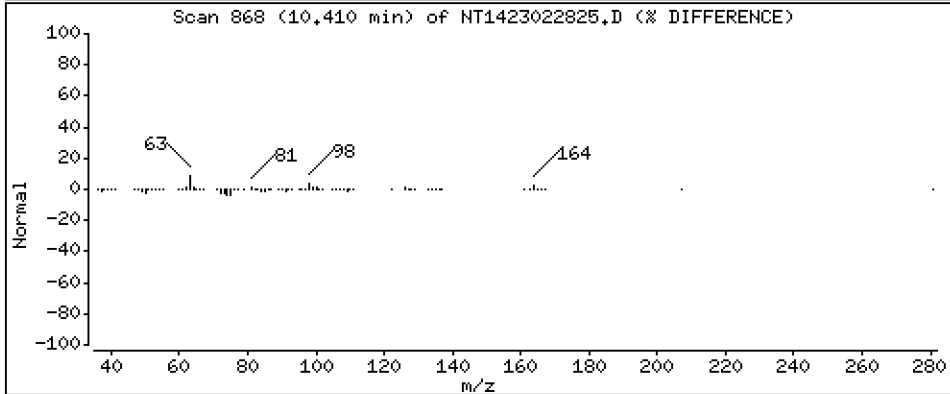
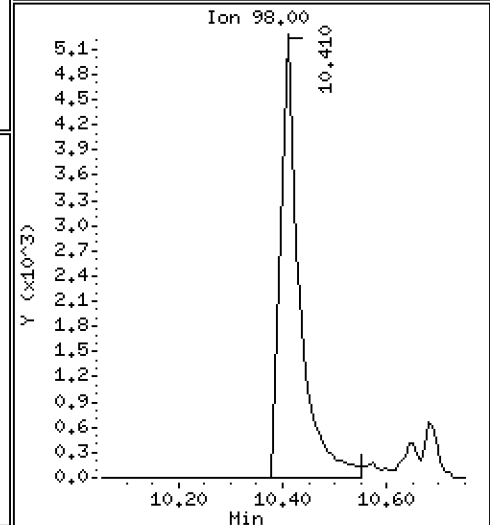
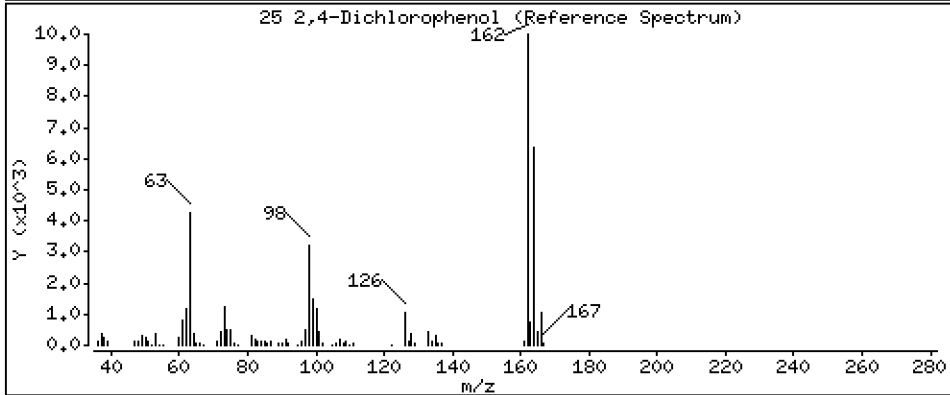
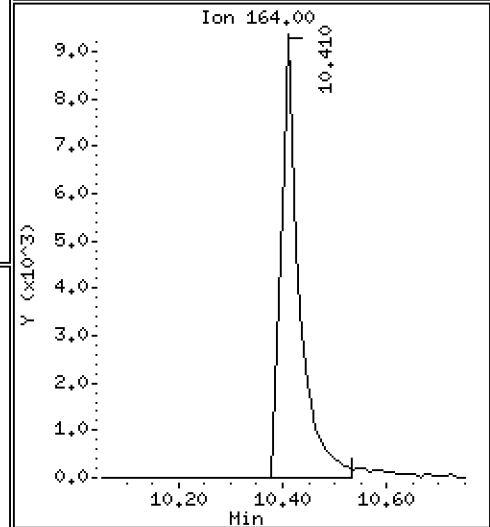
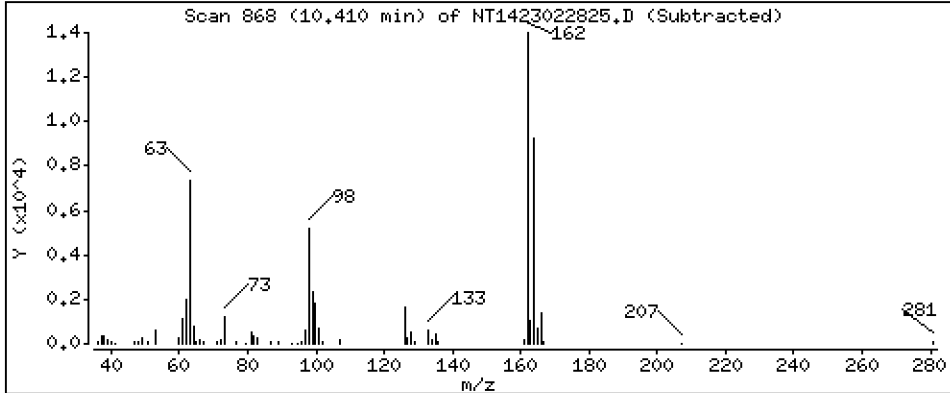
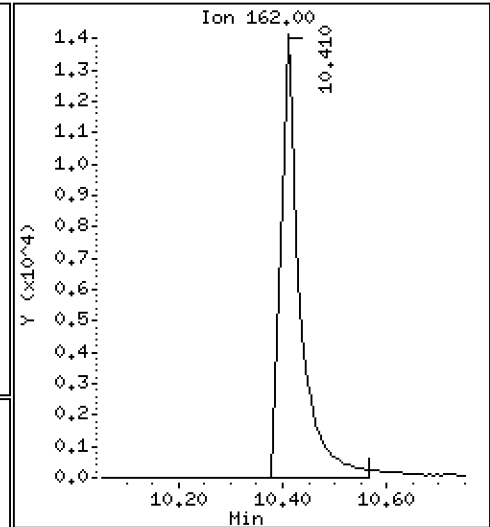
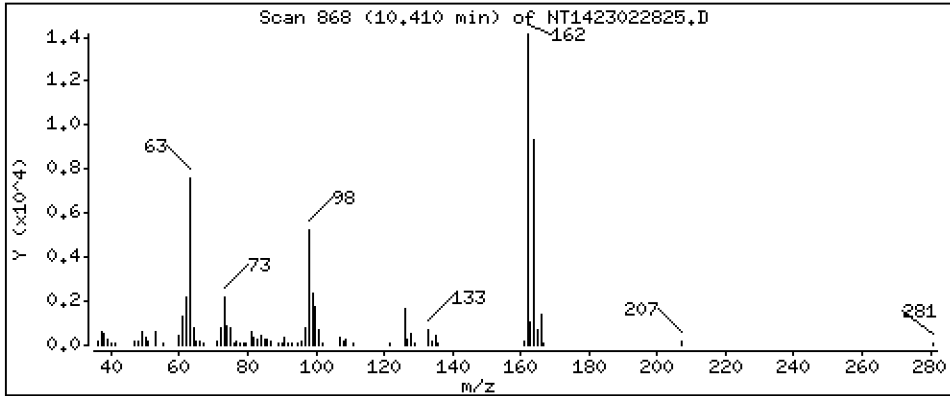
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 0,8589 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

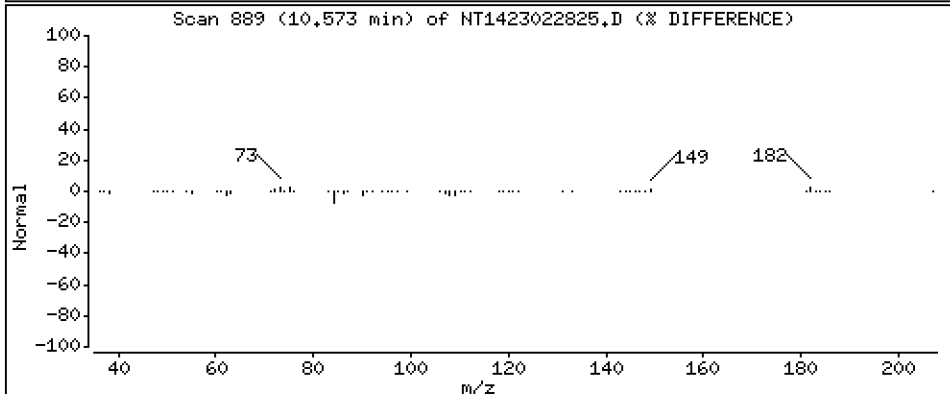
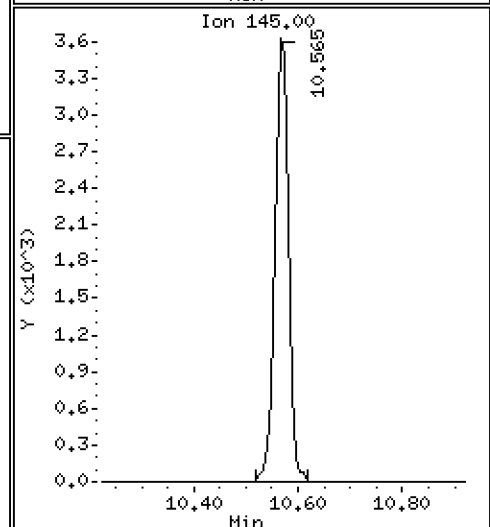
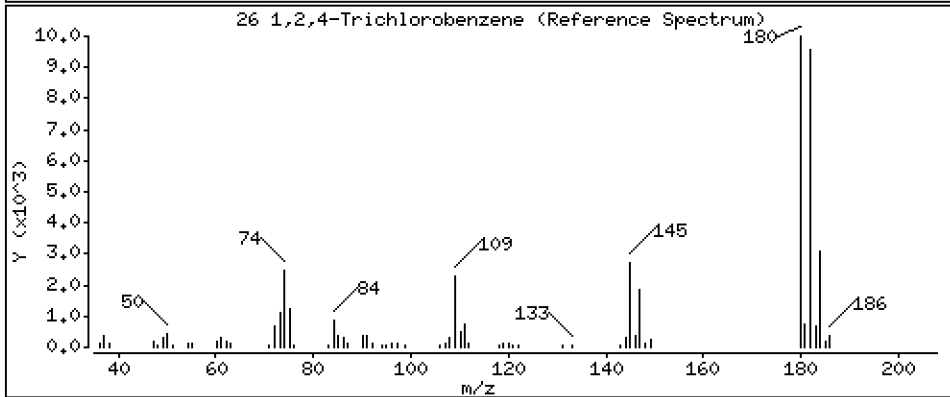
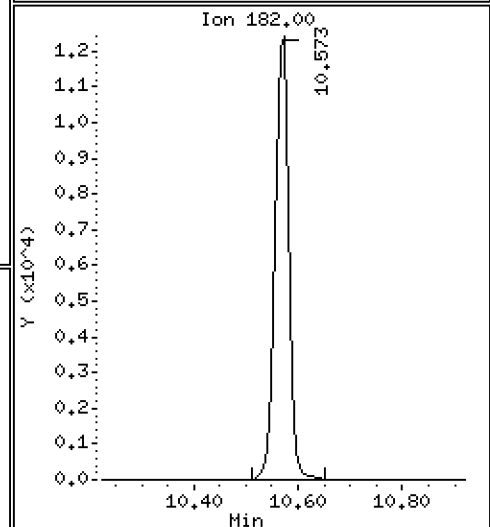
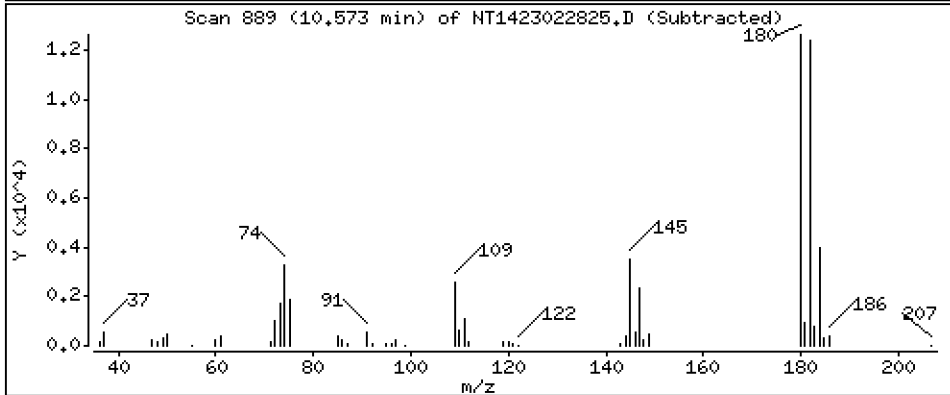
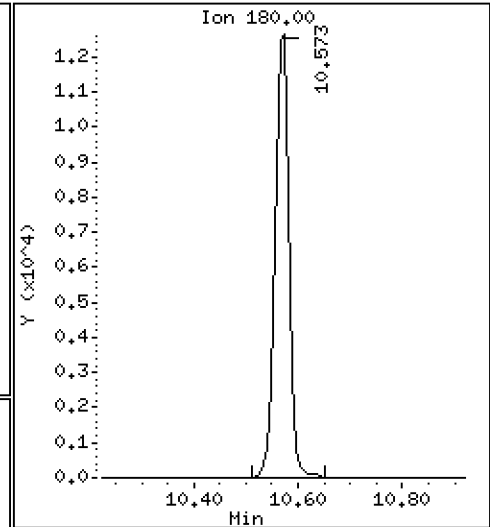
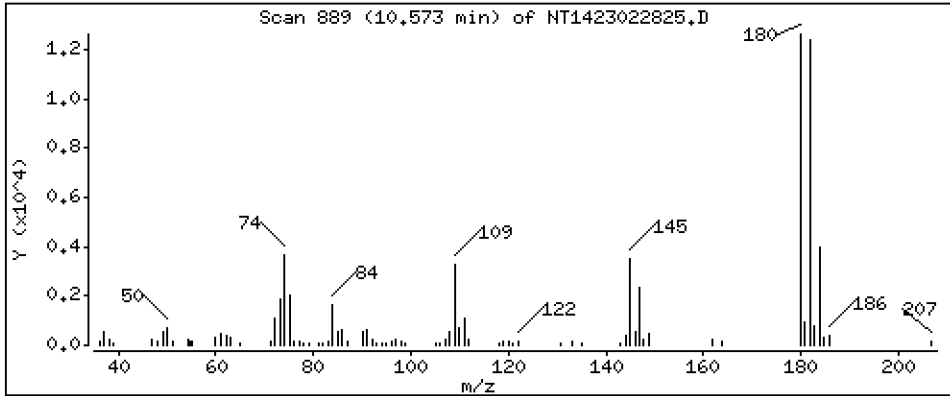
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 0,5059 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

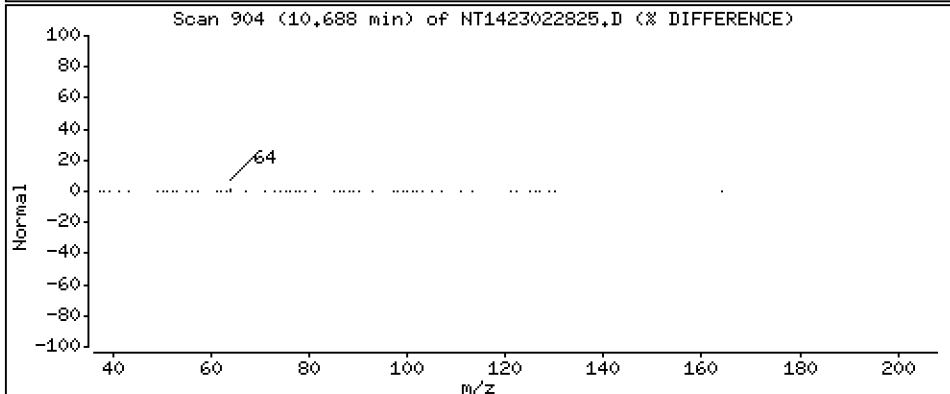
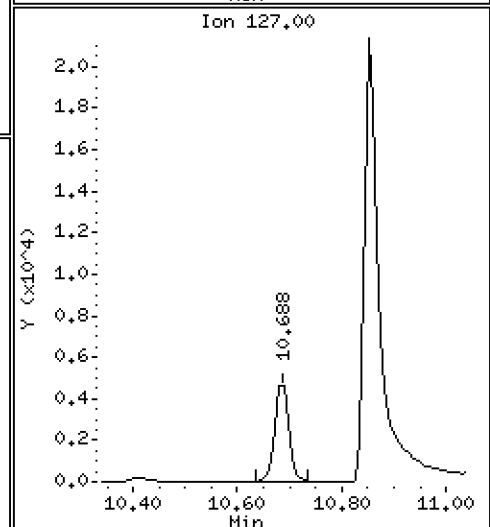
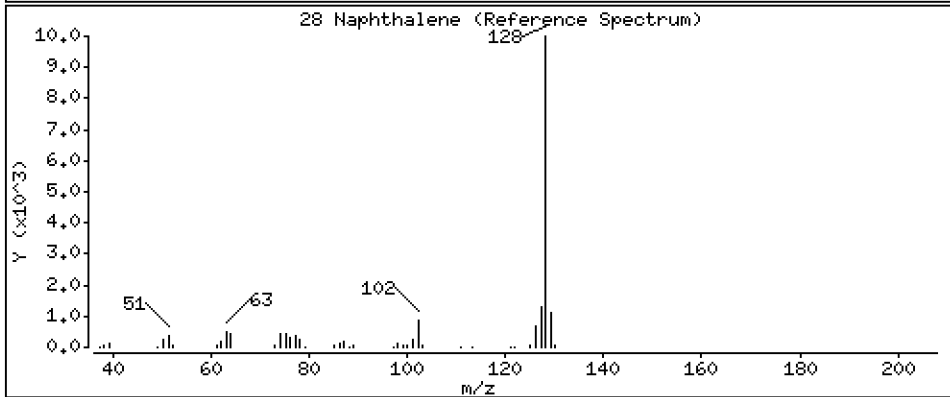
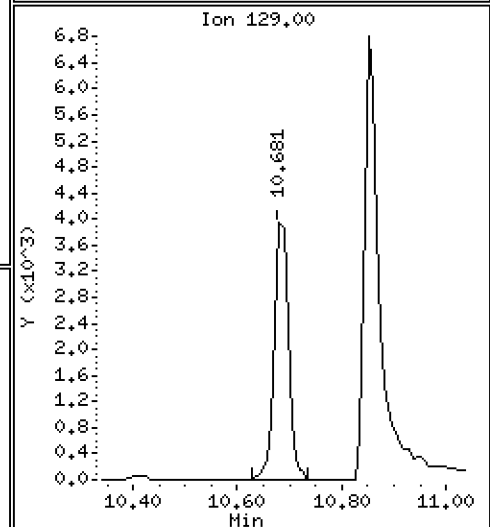
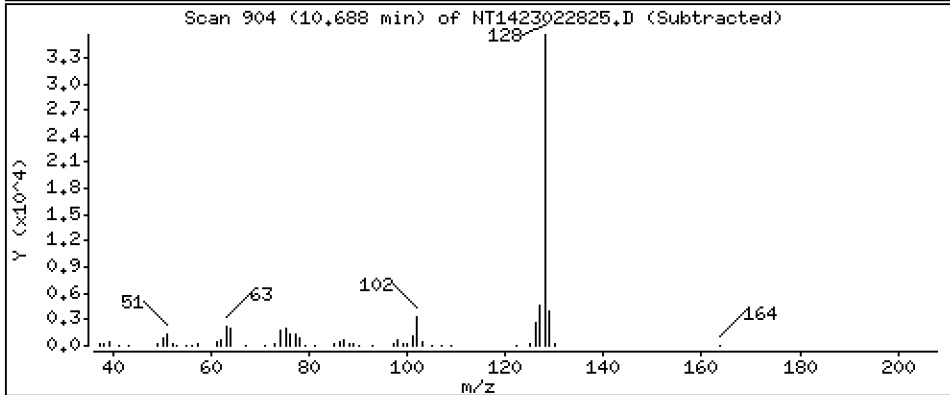
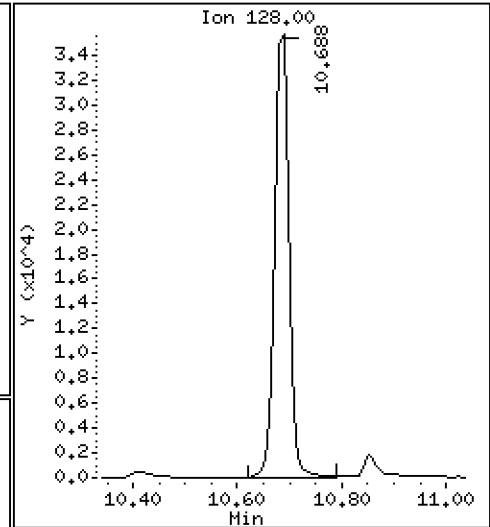
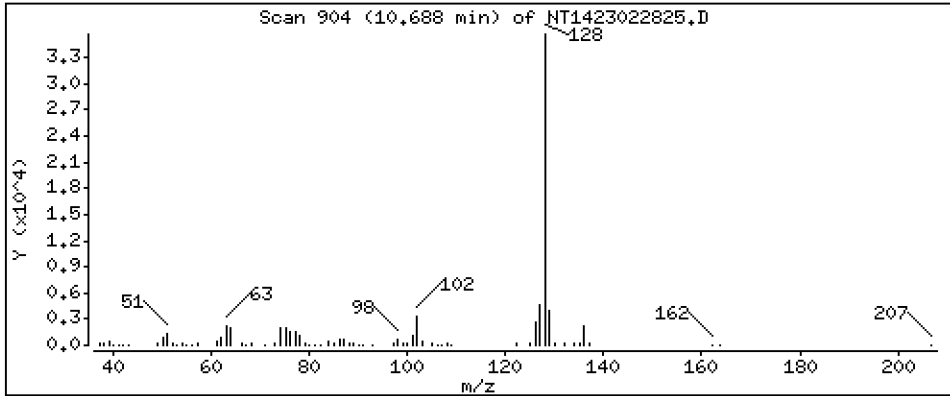
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 0,5298 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

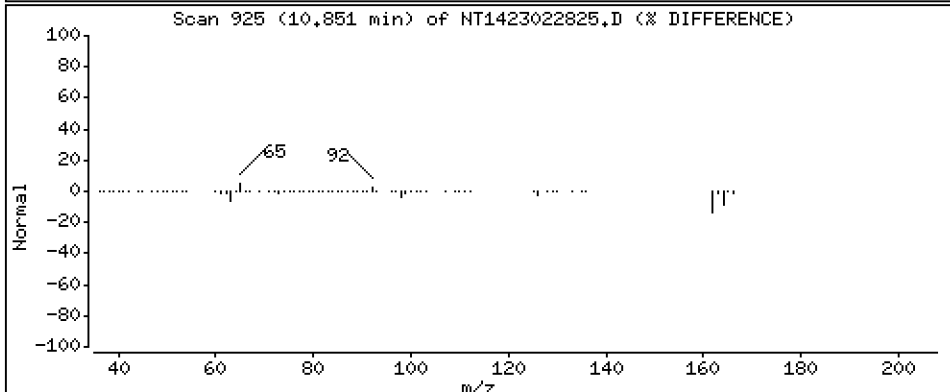
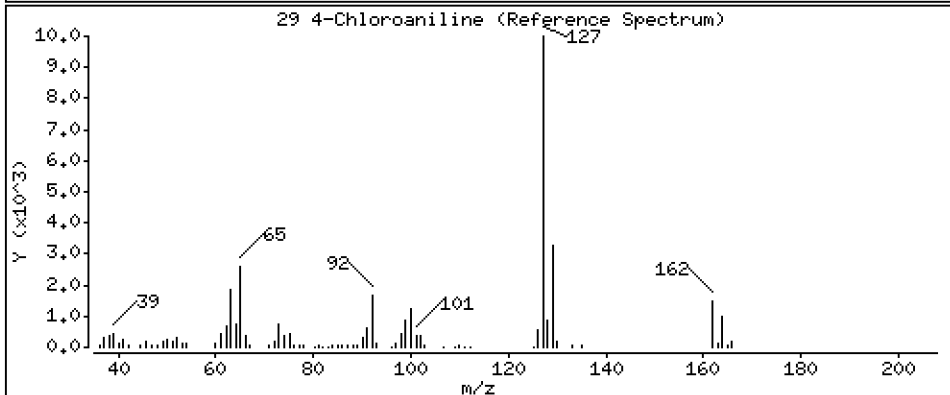
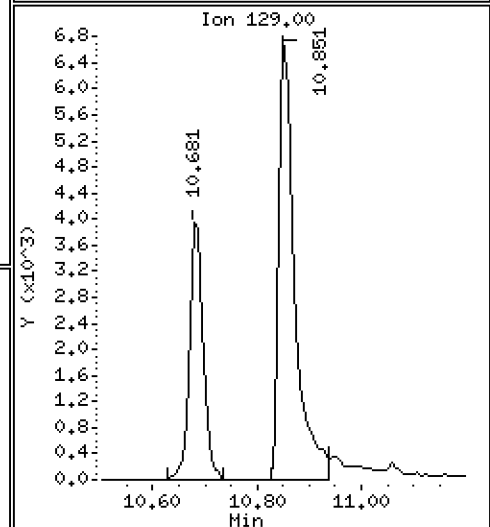
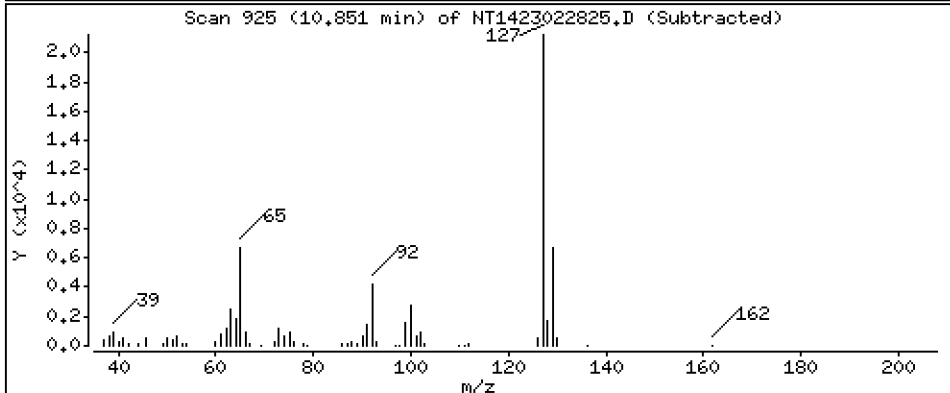
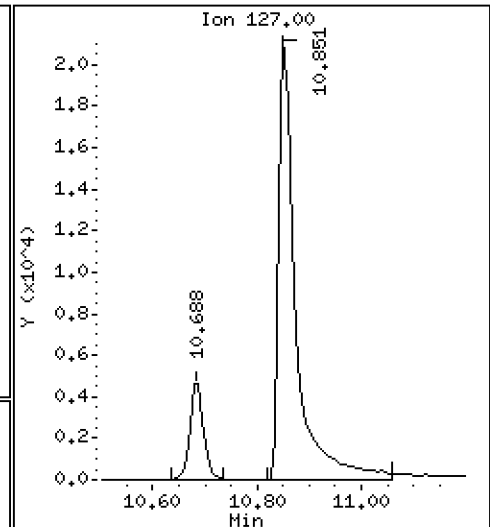
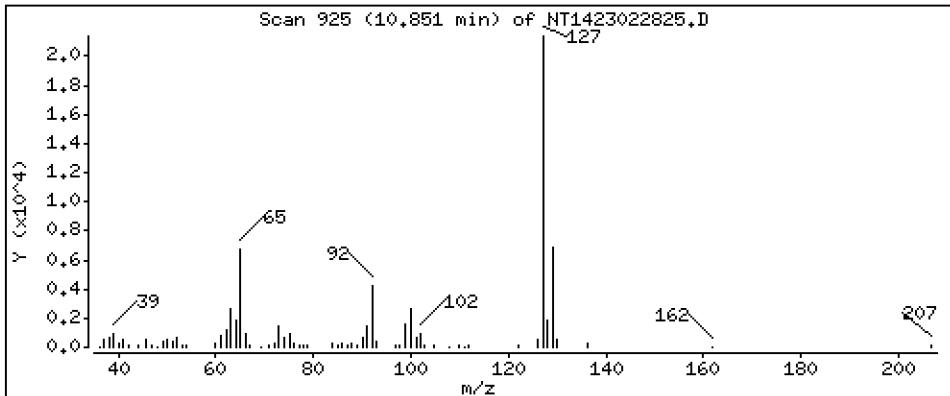
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

29 4-Chloroaniline

Concentration: 0,9465 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

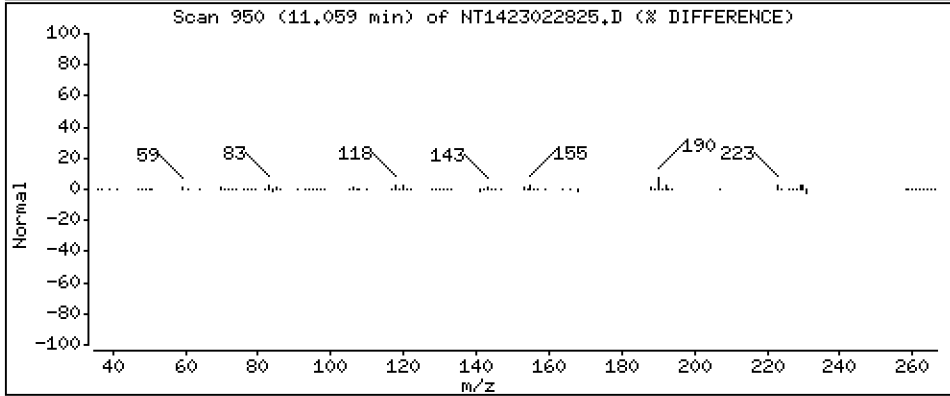
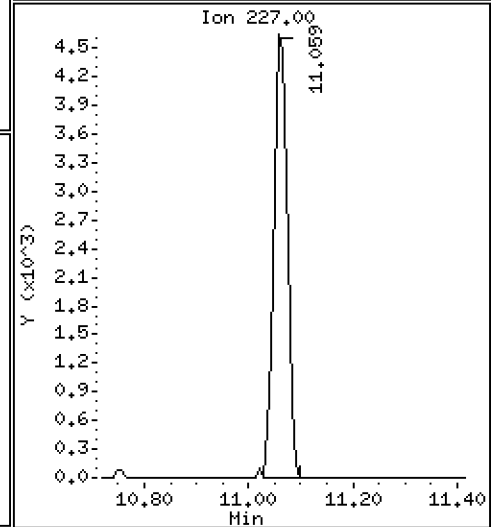
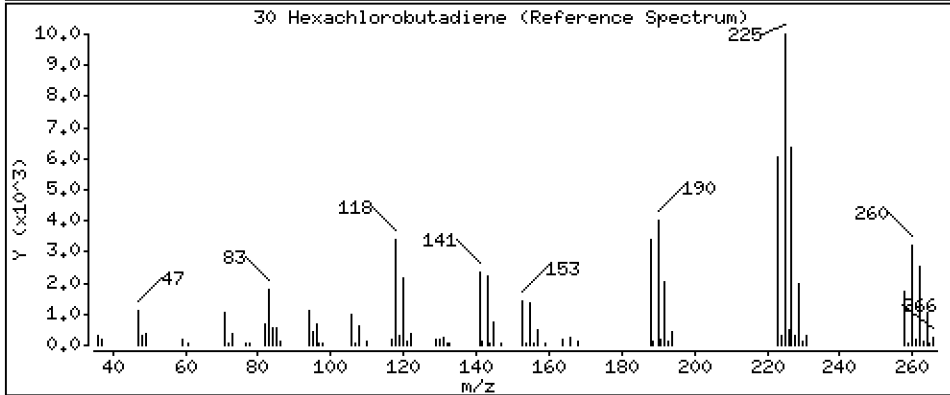
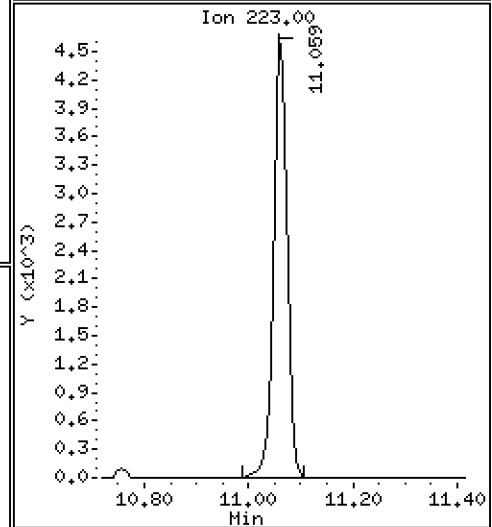
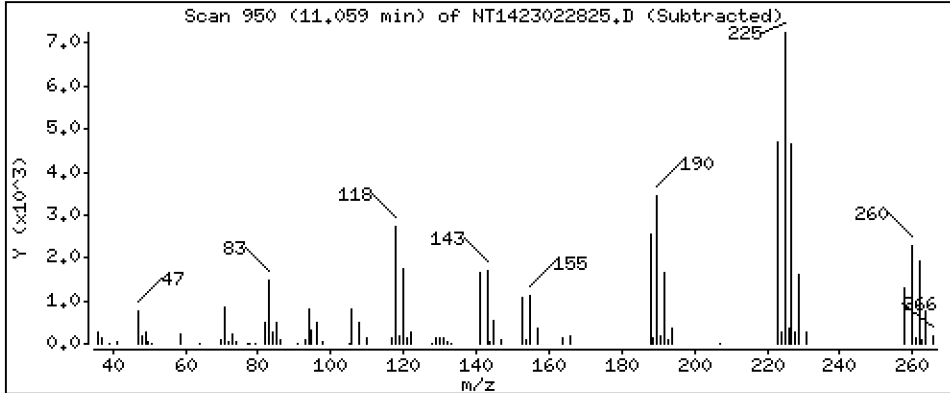
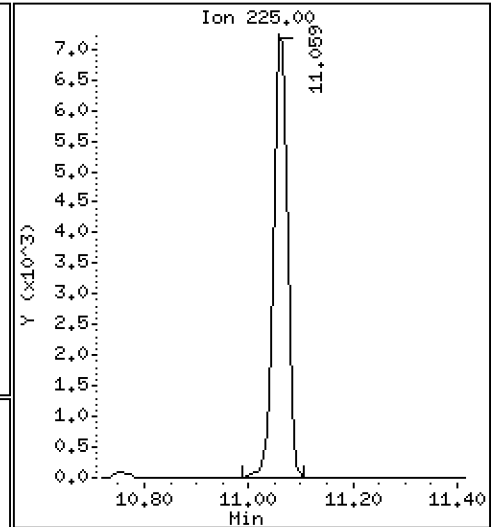
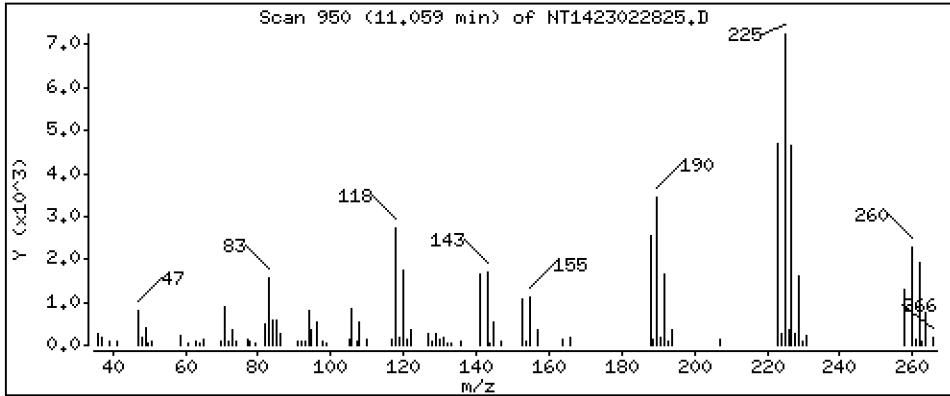
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 0,5495 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

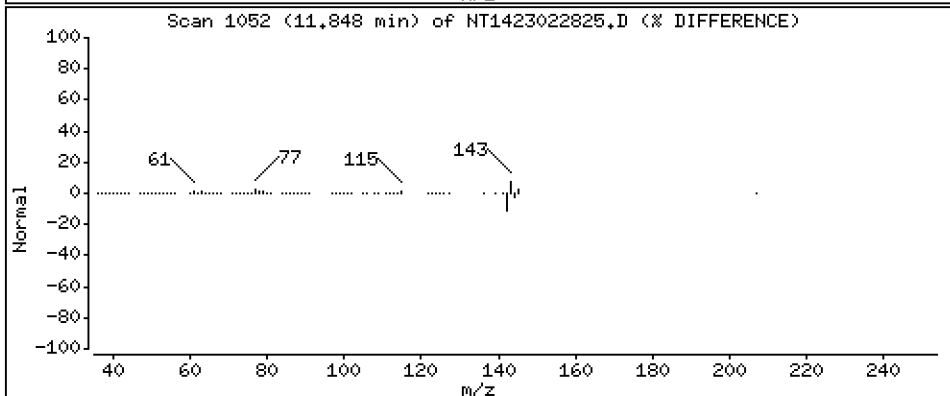
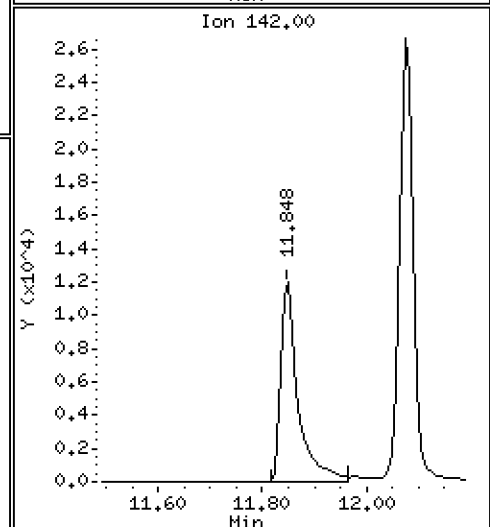
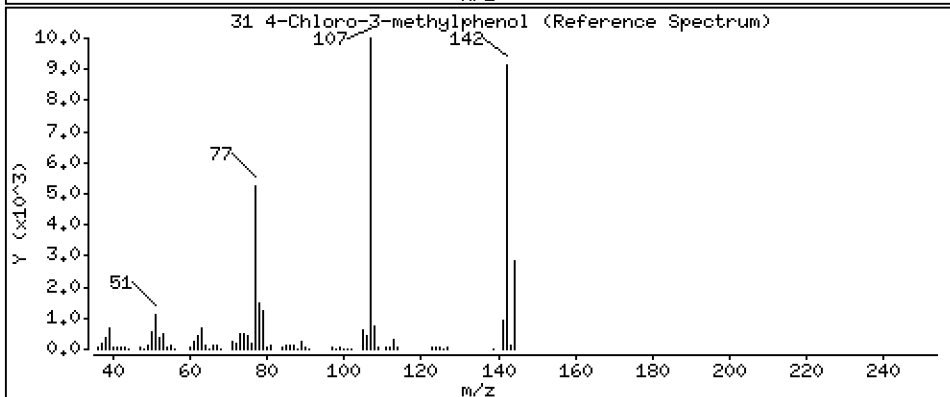
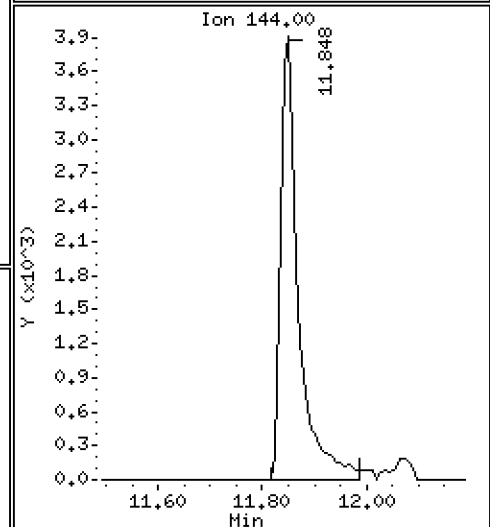
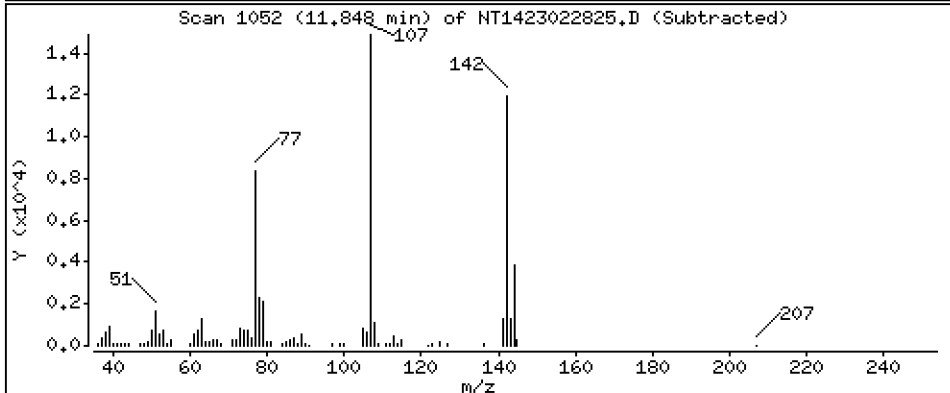
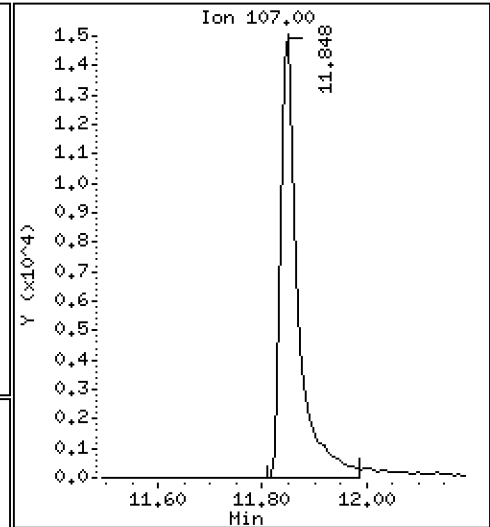
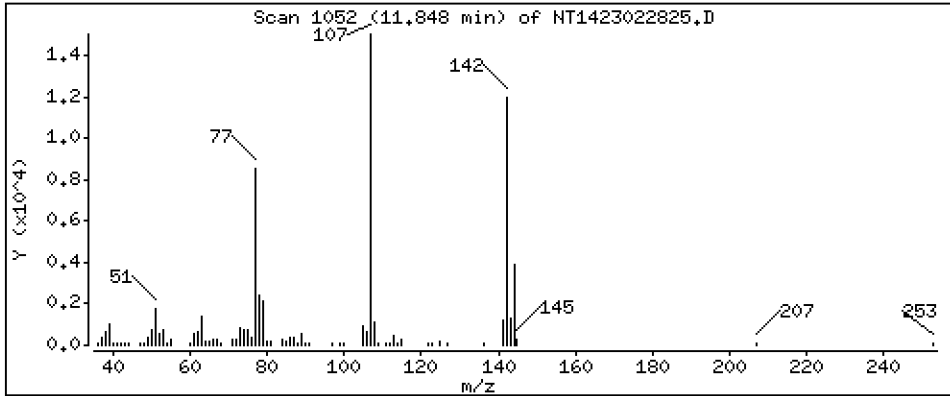
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

31 4-Chloro-3-methylphenol

Concentration: 0,9723 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

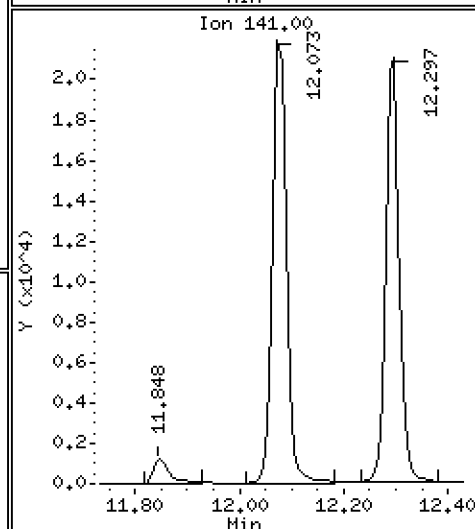
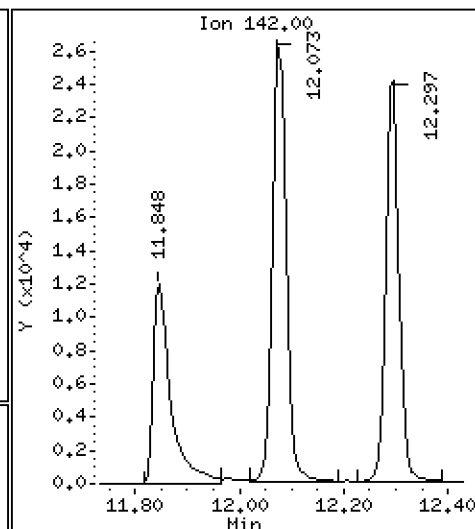
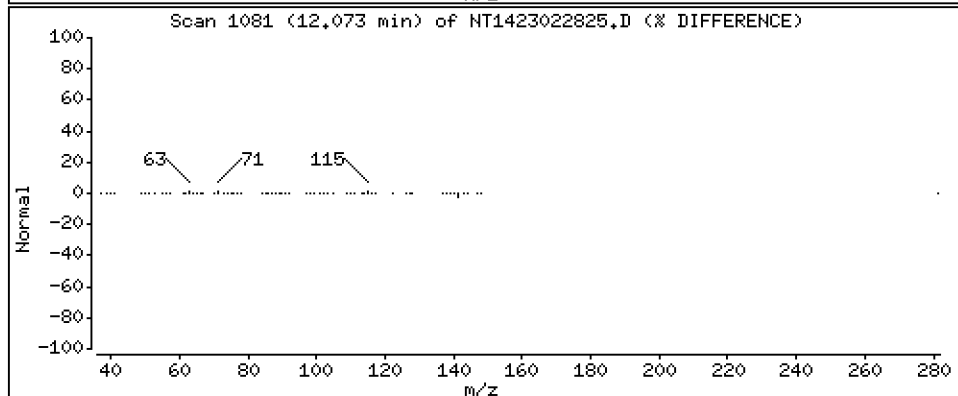
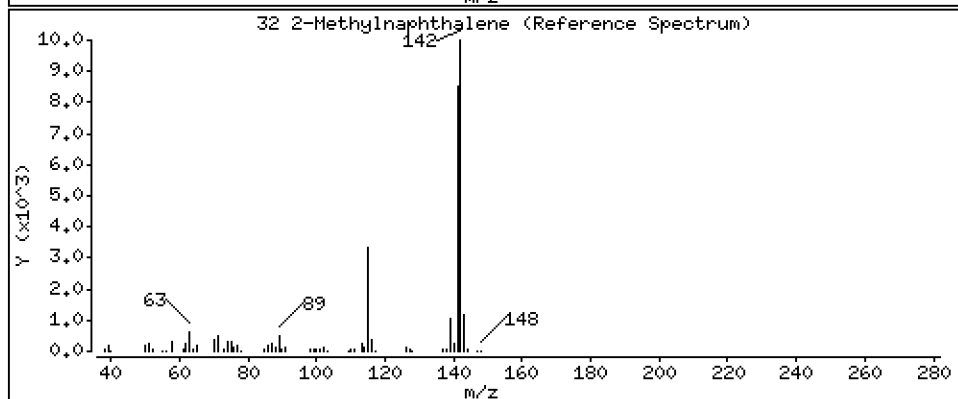
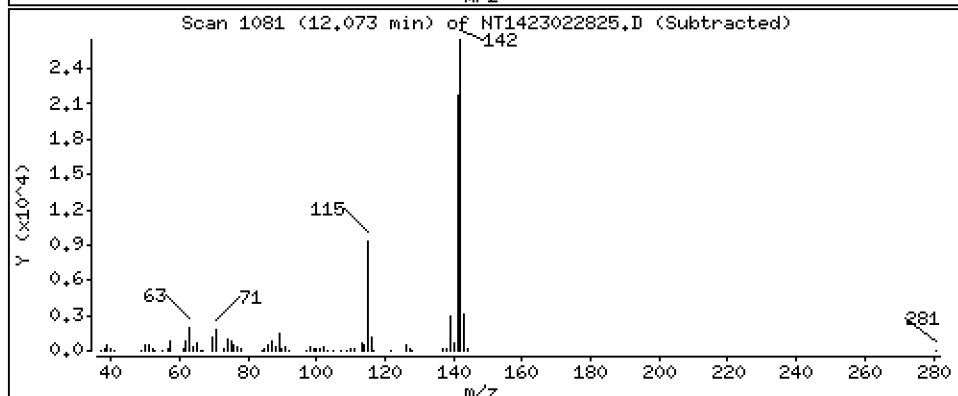
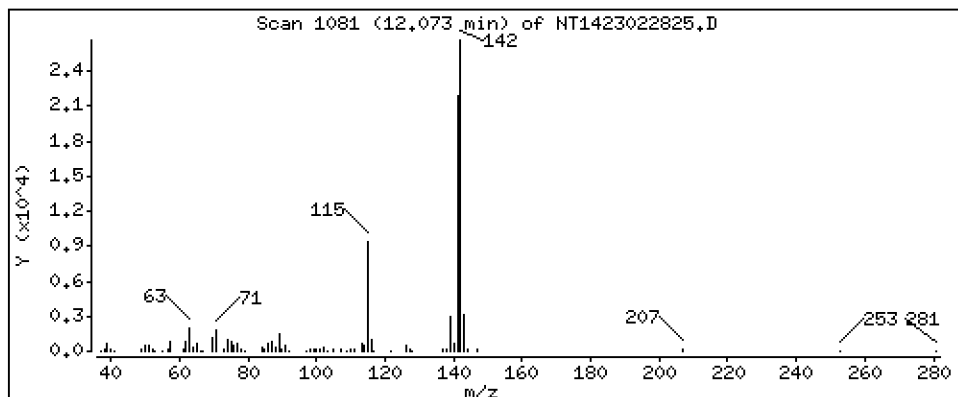
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 0,5070 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

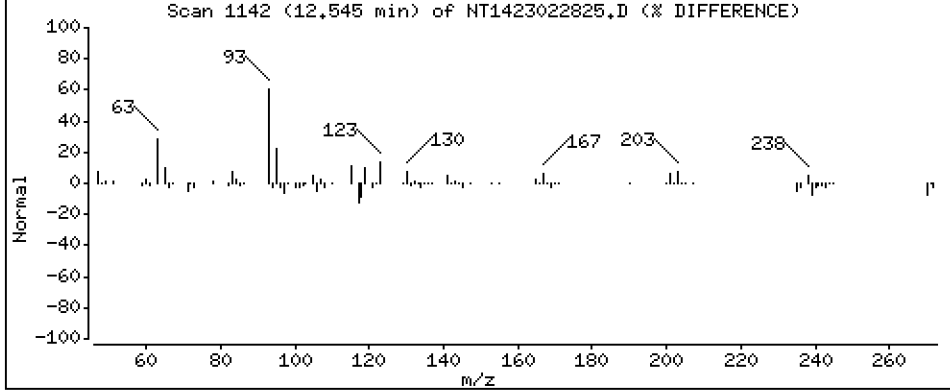
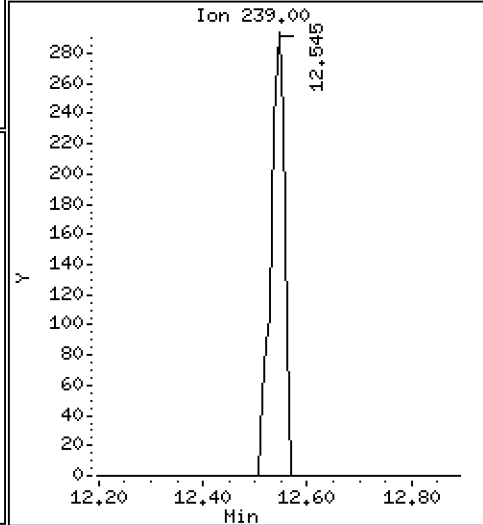
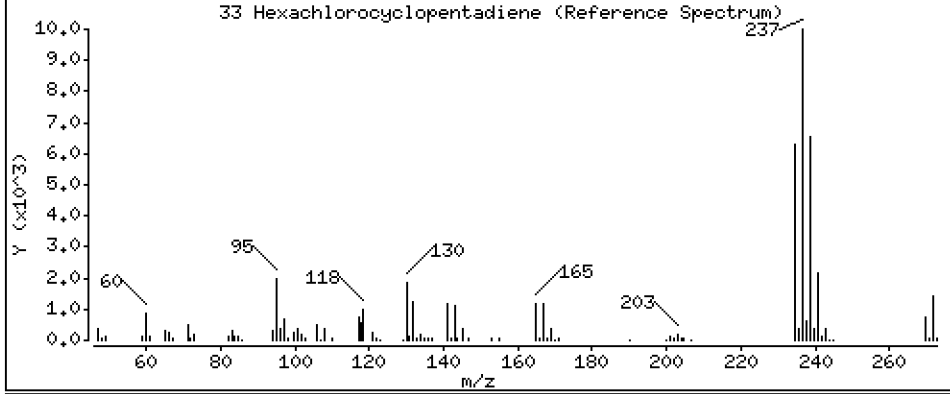
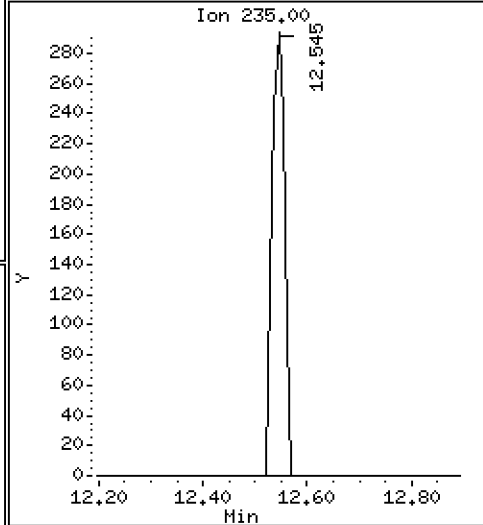
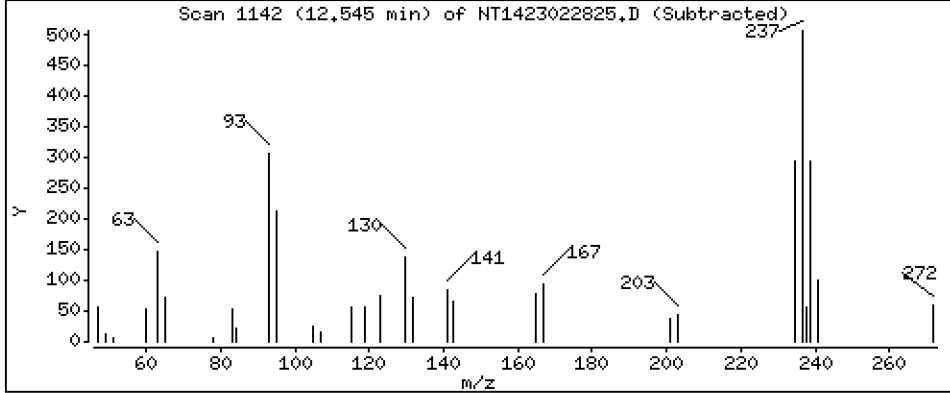
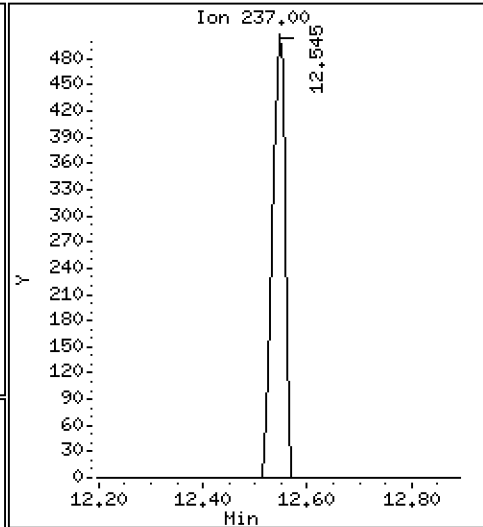
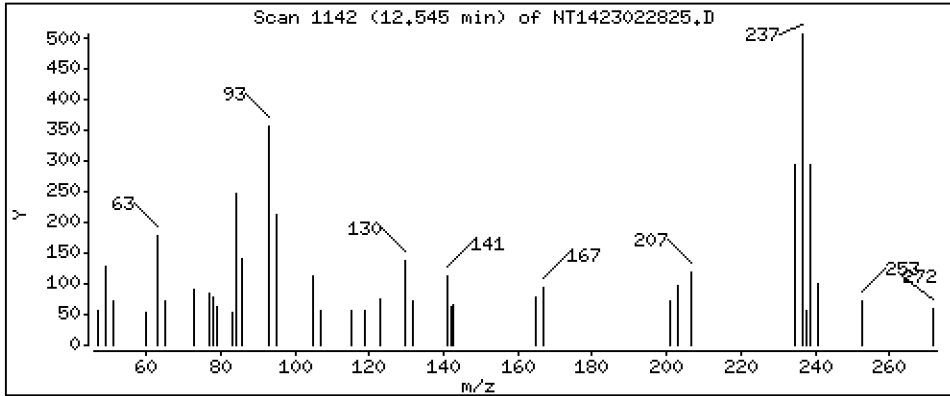
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

33 Hexachlorocyclopentadiene

Concentration: 0,02907 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

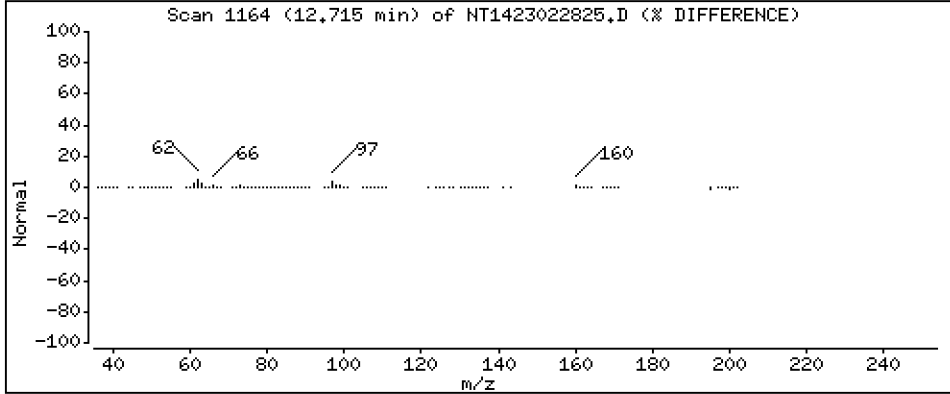
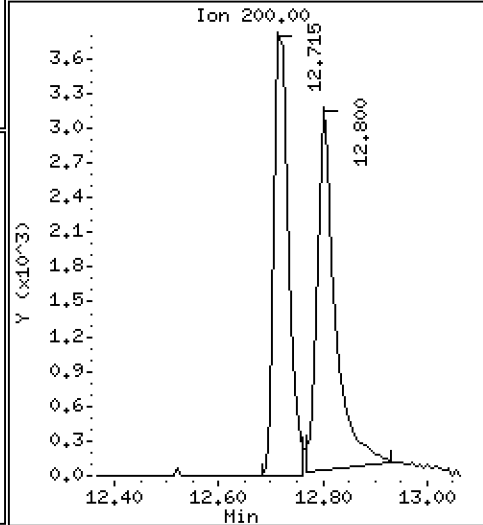
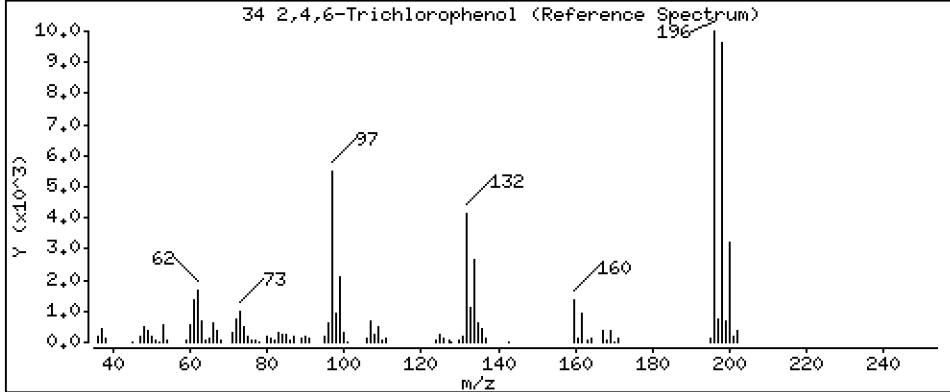
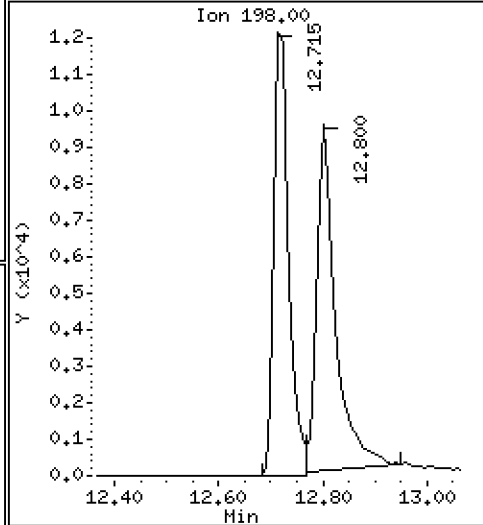
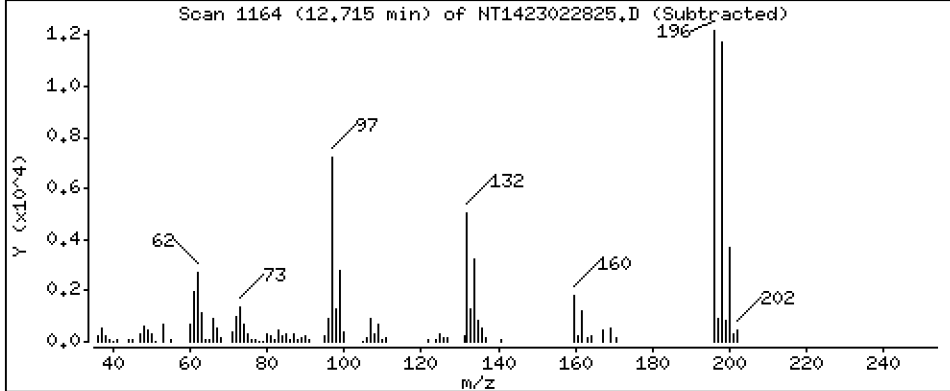
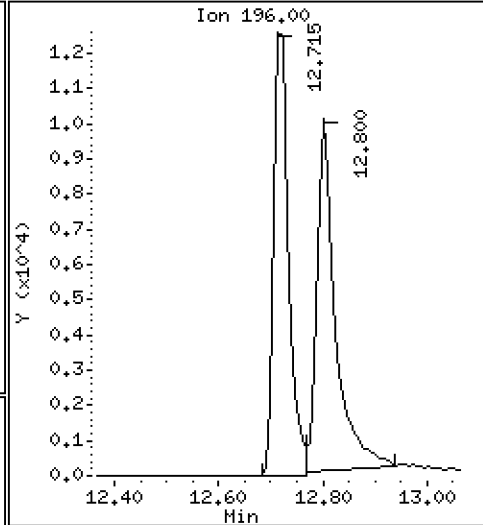
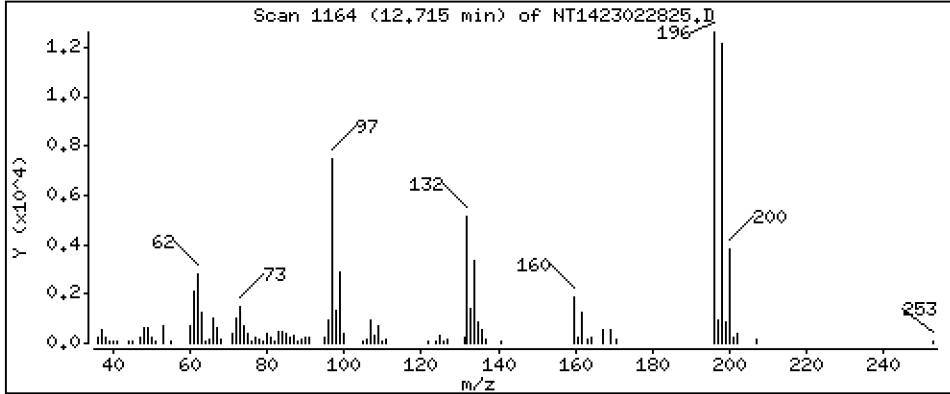
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

34 2,4,6-Trichlorophenol

Concentration: 0,9333 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

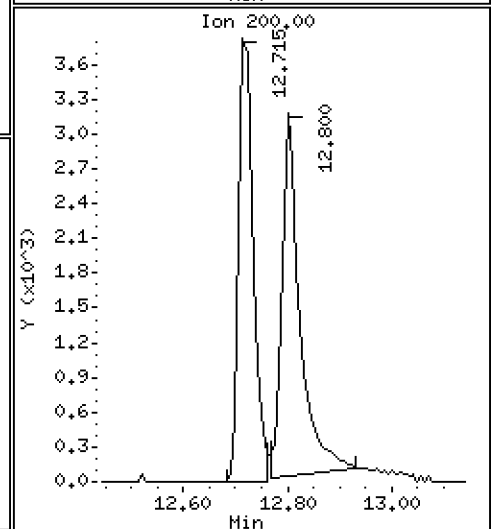
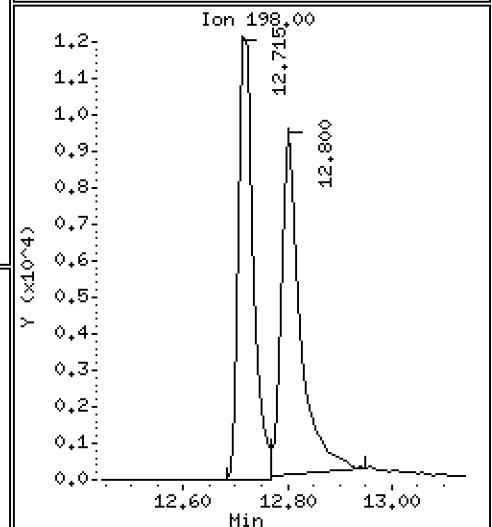
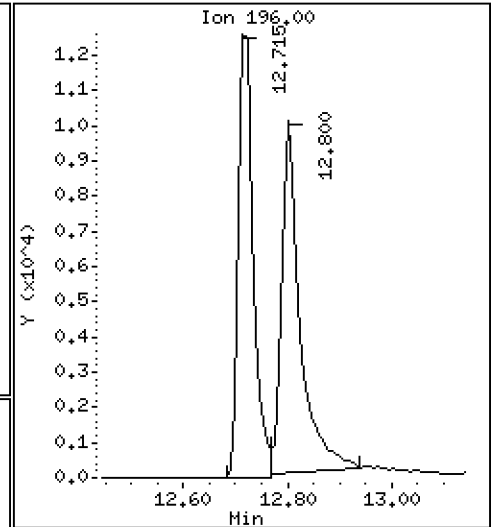
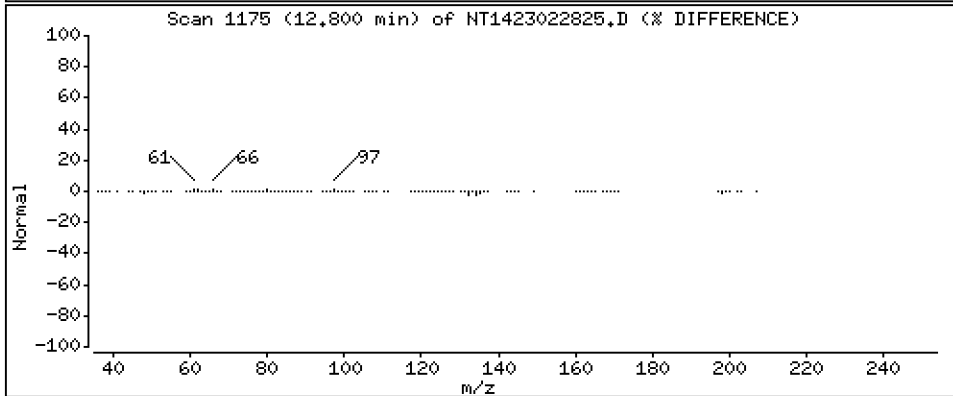
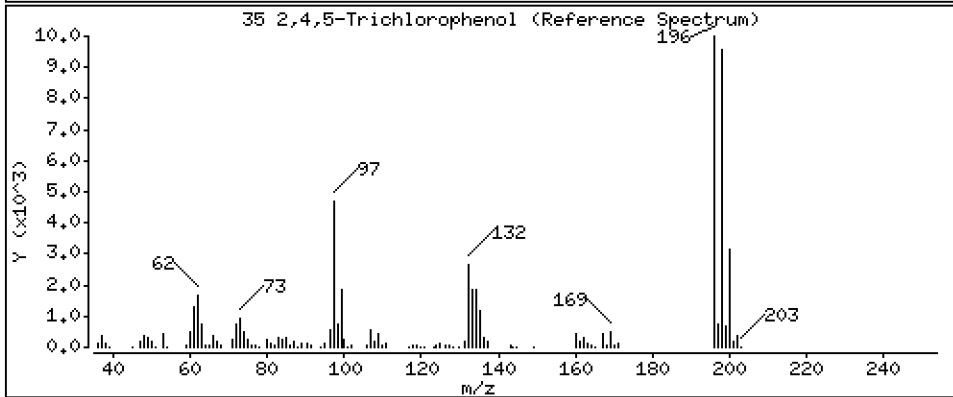
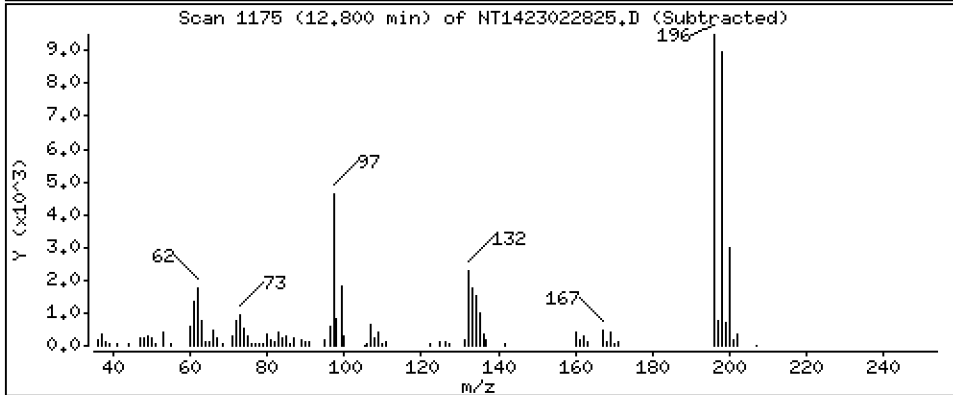
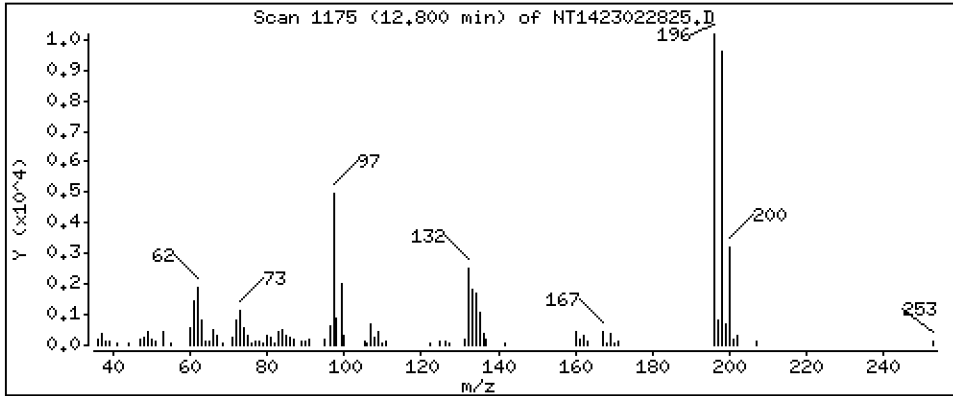
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

35 2,4,5-Trichlorophenol

Concentration: 0,8772 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

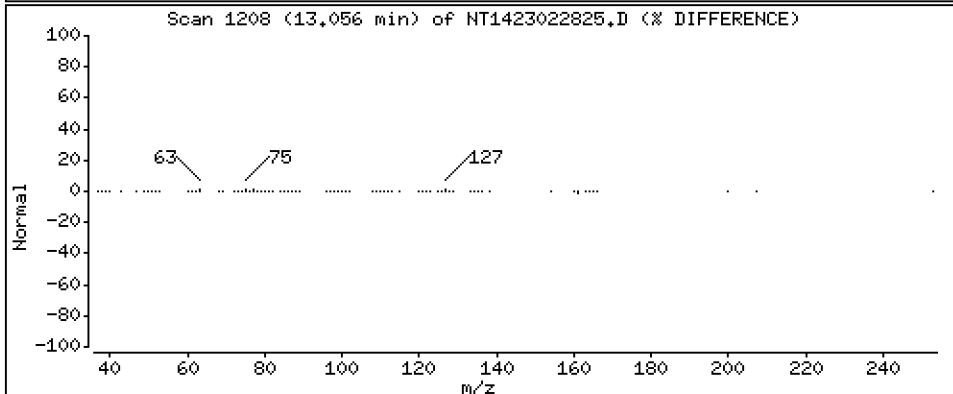
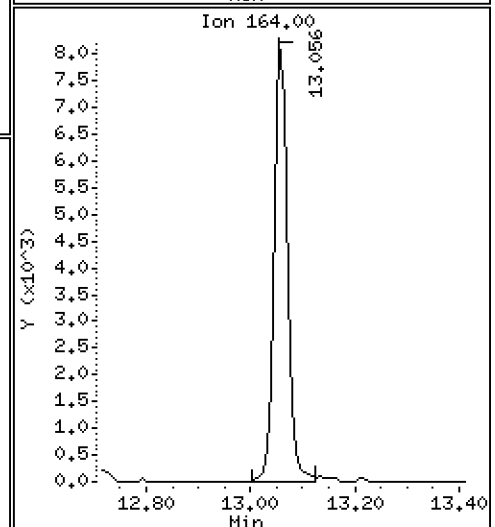
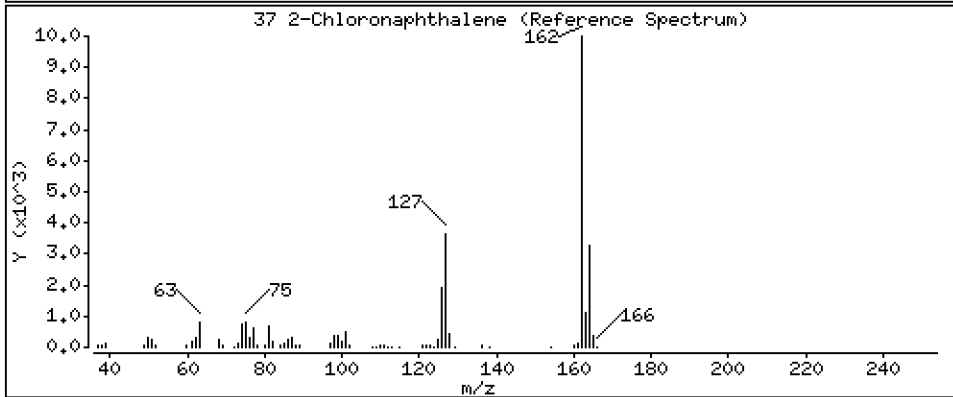
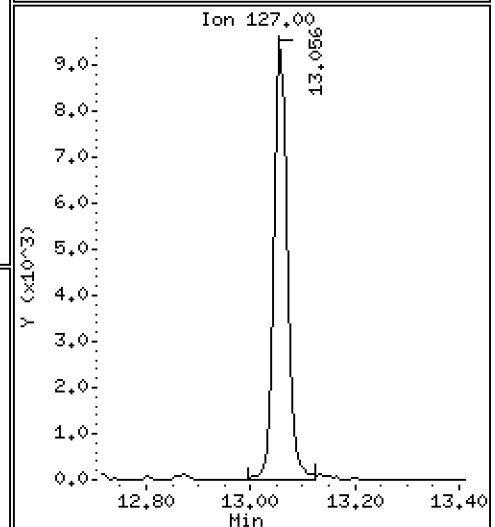
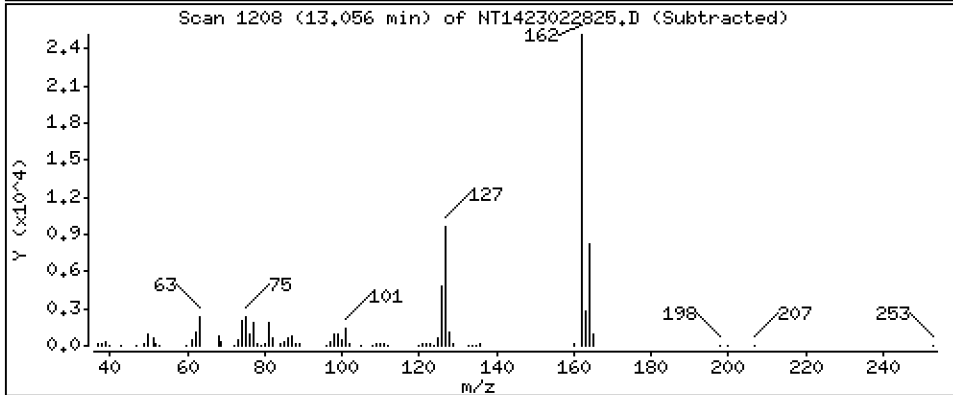
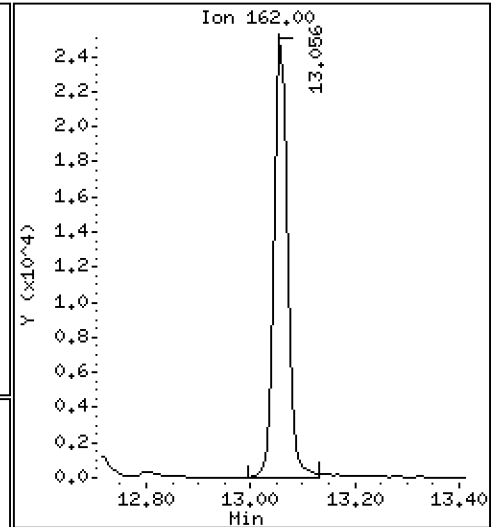
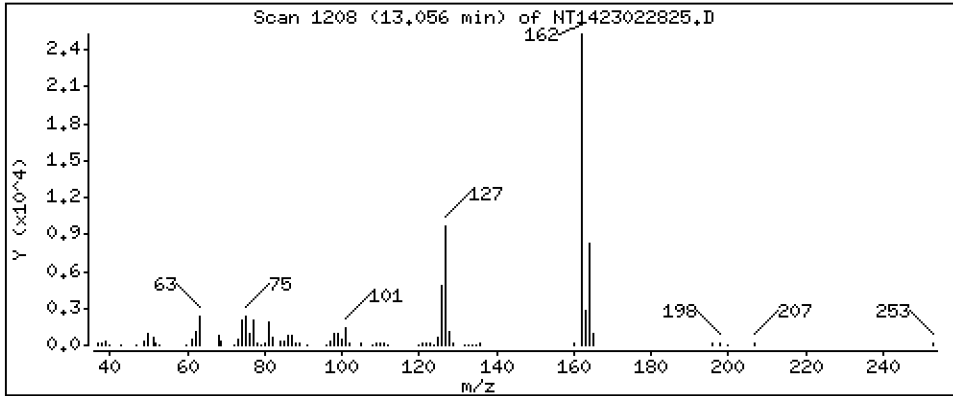
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

37 2-Chloronaphthalene

Concentration: 0,5205 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

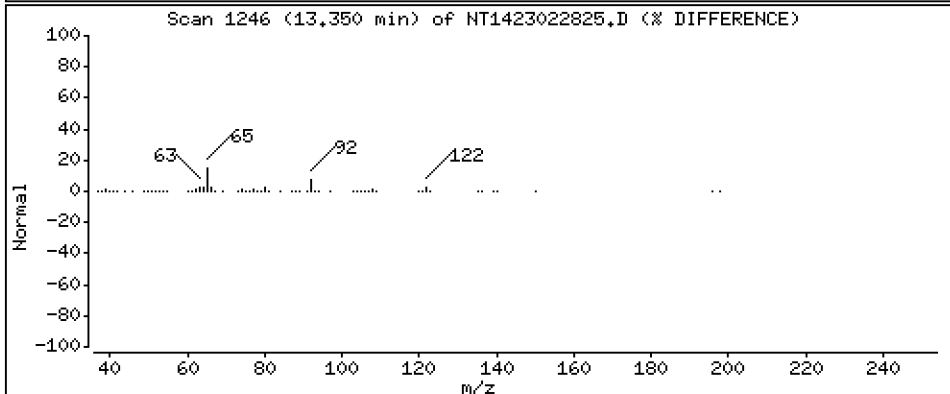
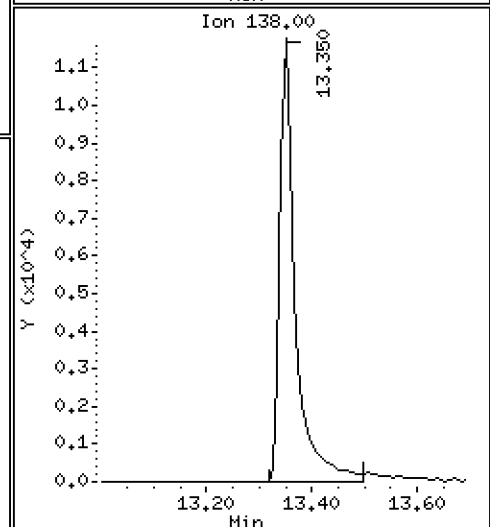
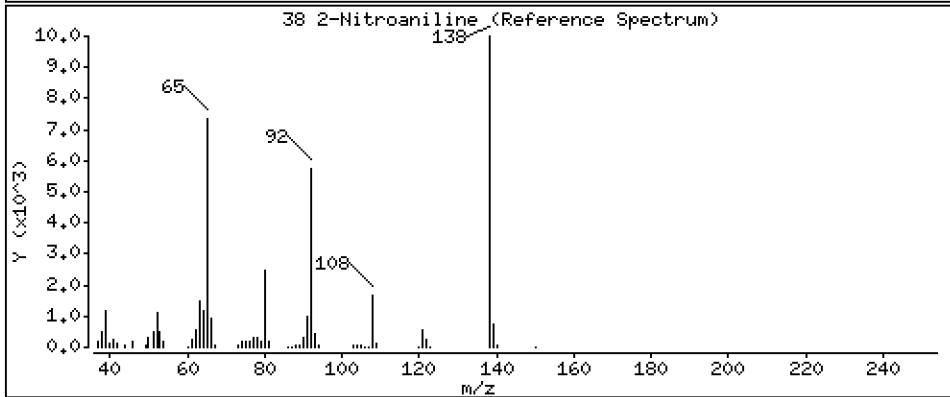
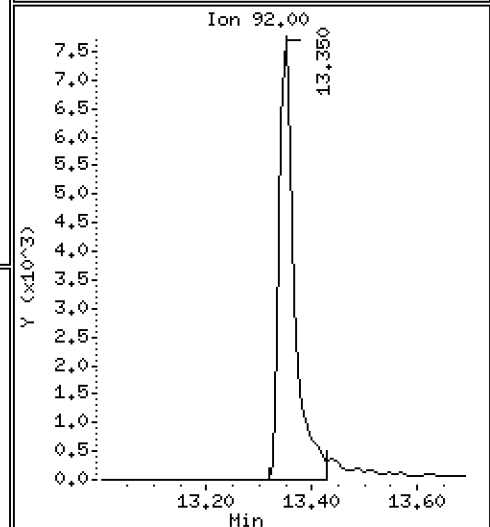
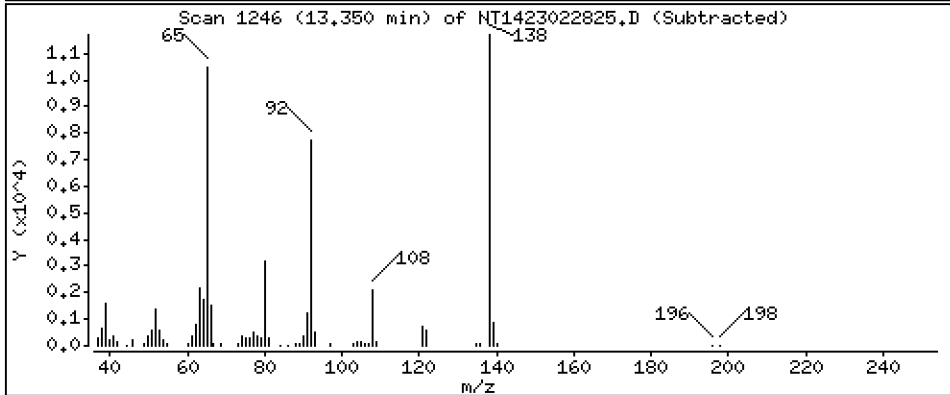
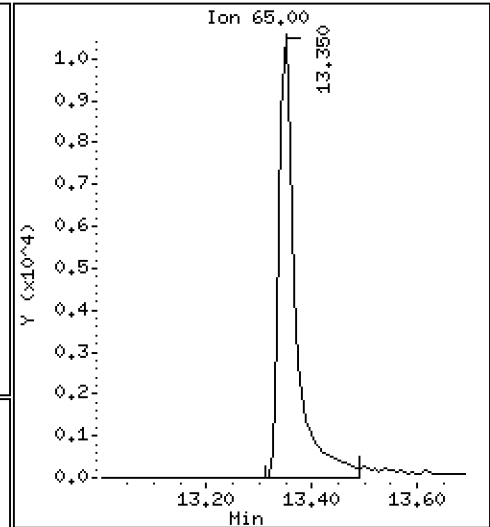
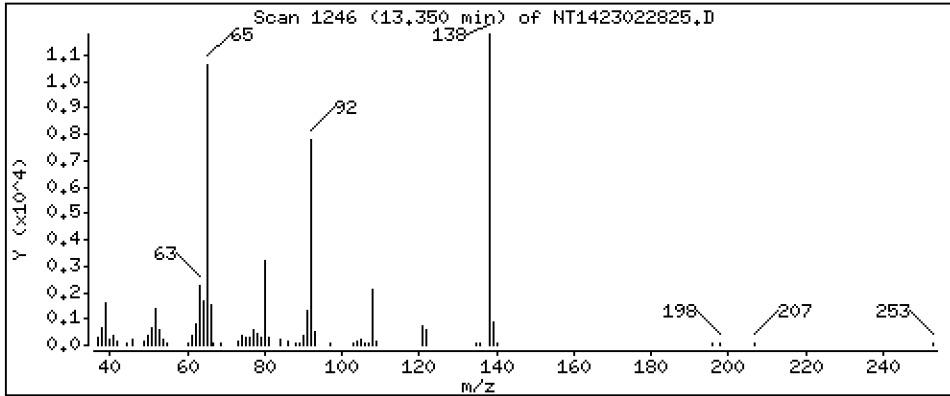
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

38 2-Nitroaniline

Concentration: 1,048 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

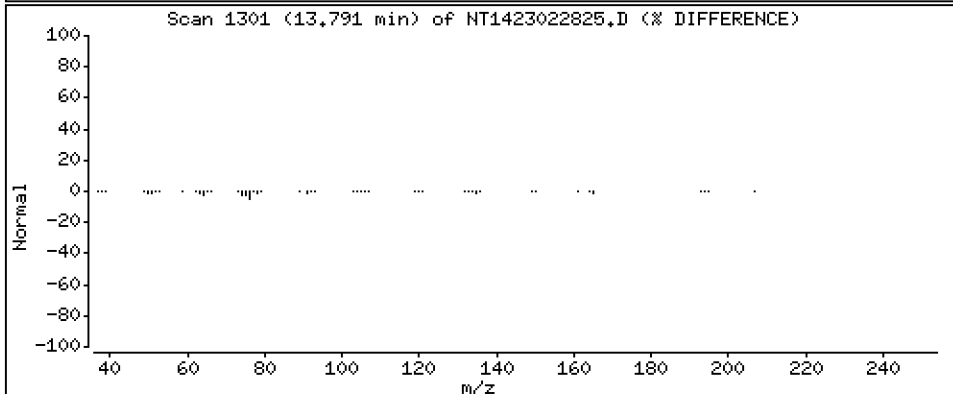
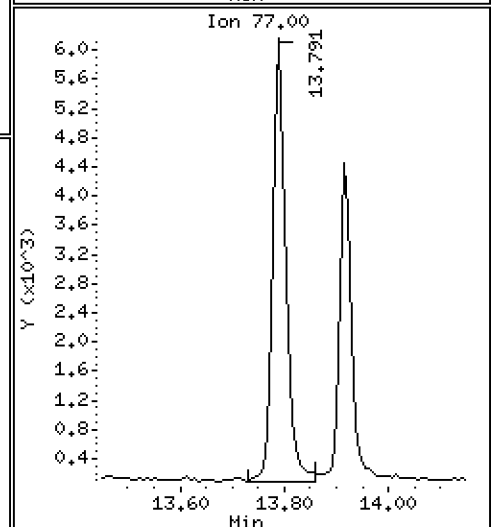
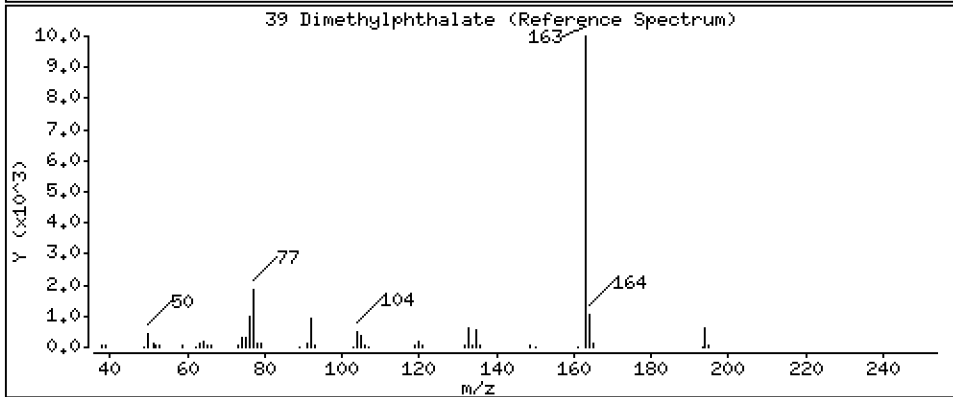
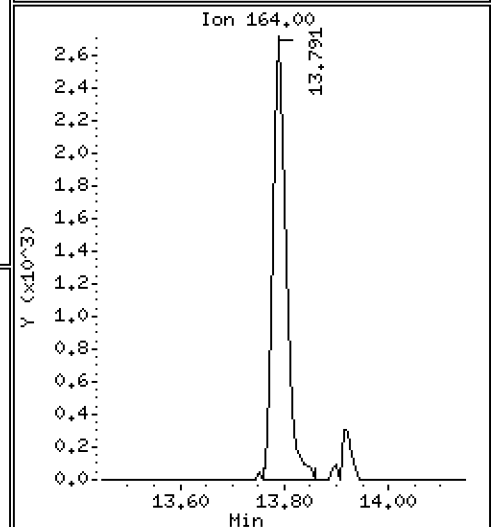
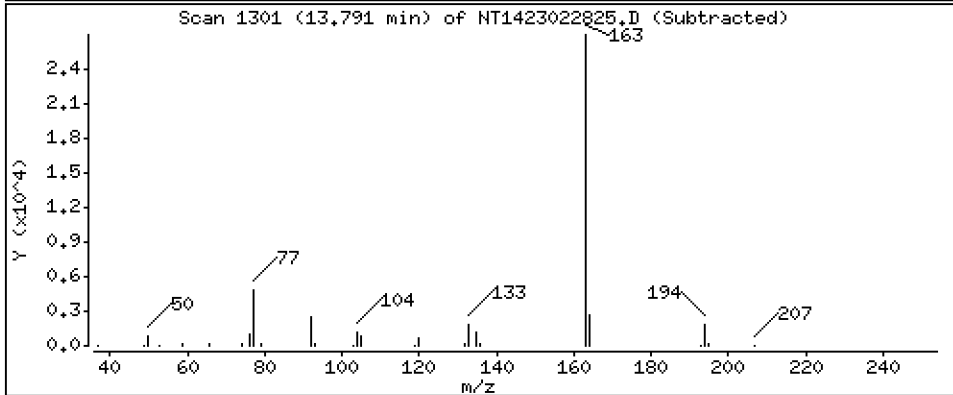
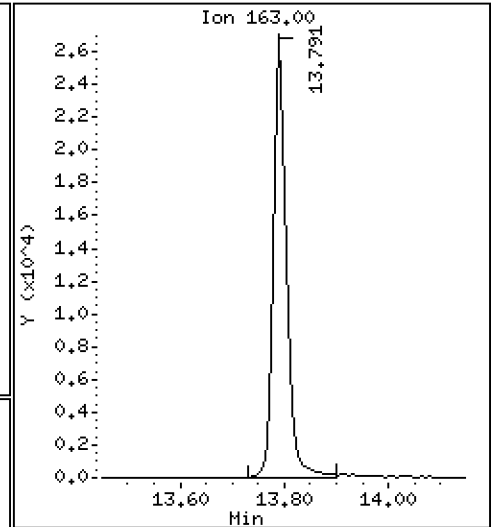
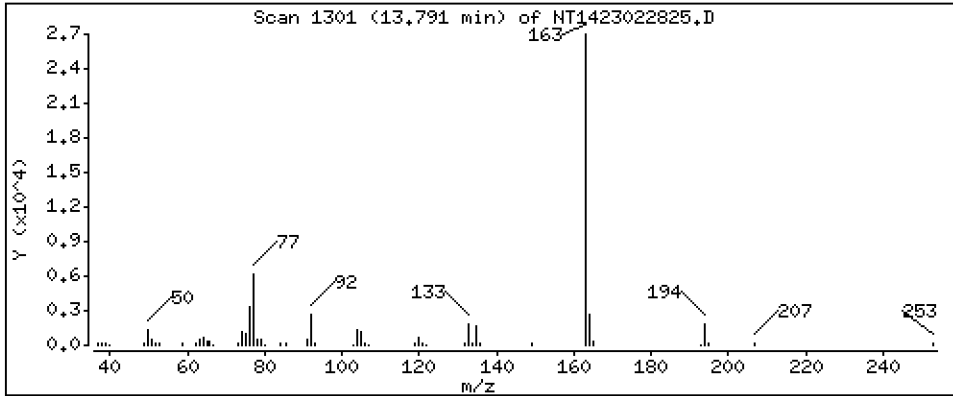
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 0,5482 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

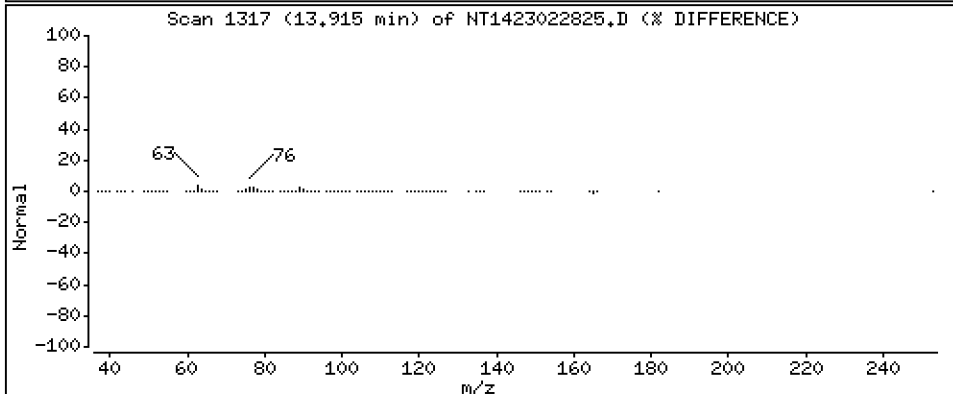
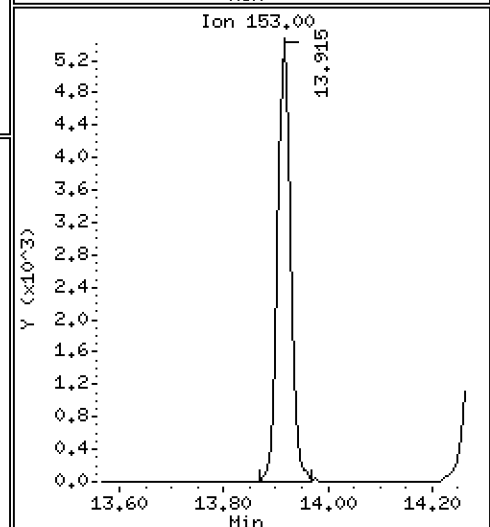
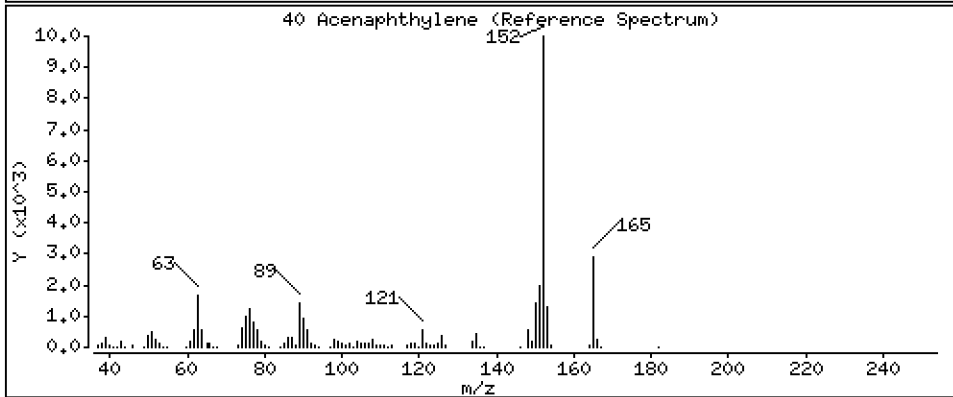
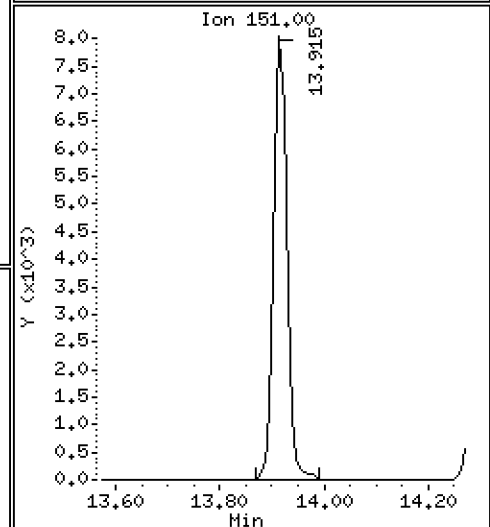
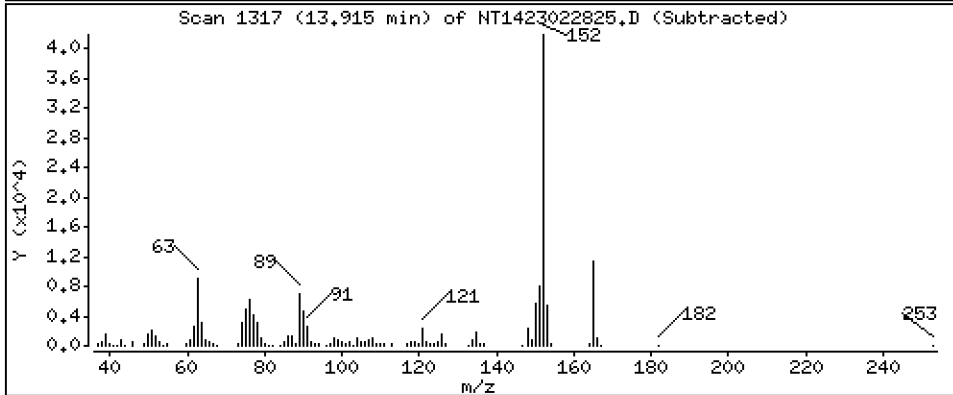
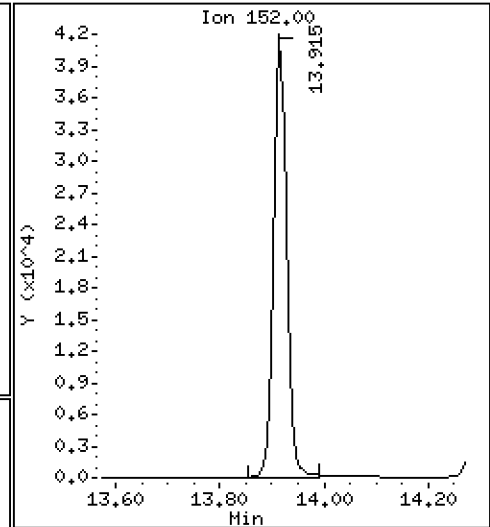
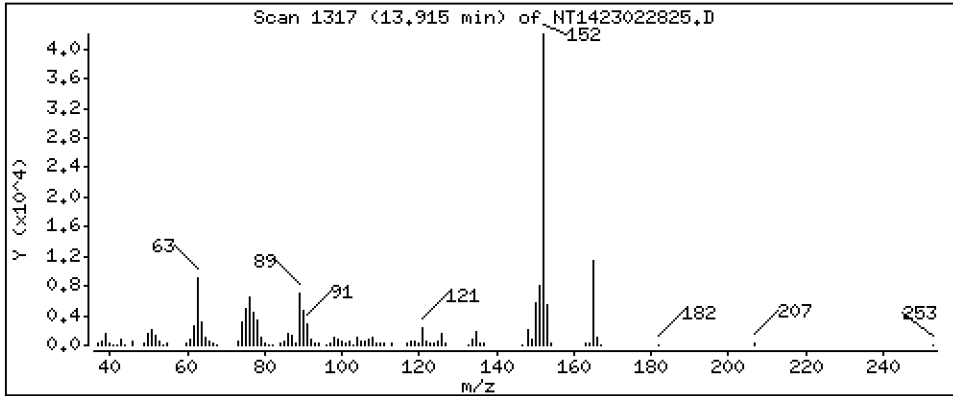
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 0,5668 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

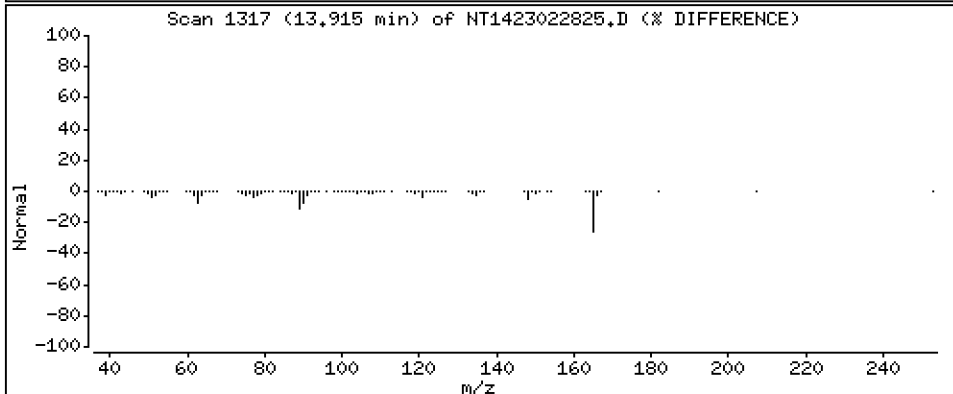
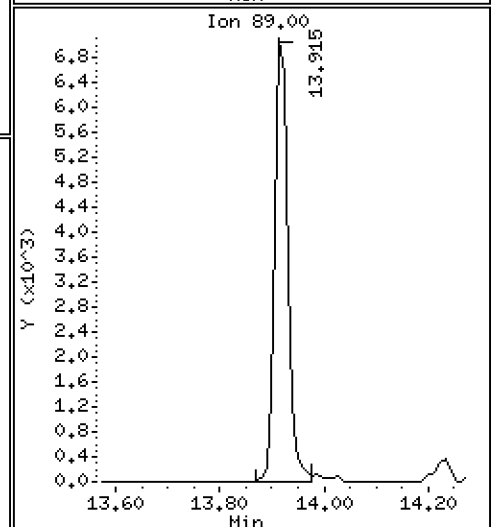
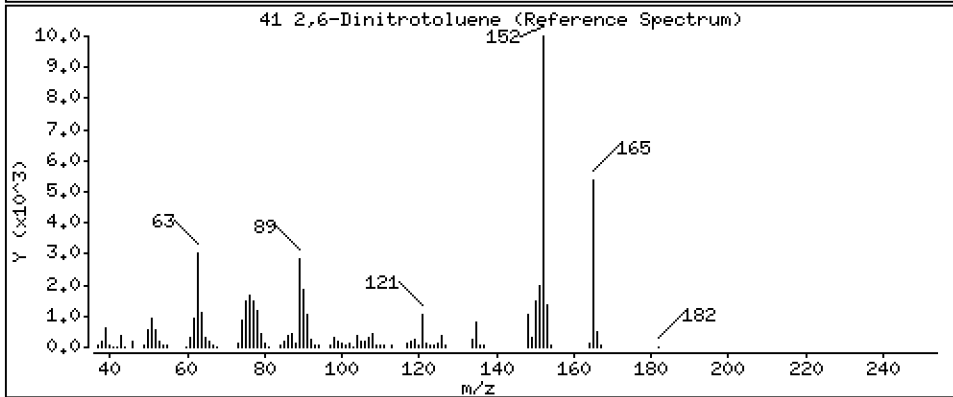
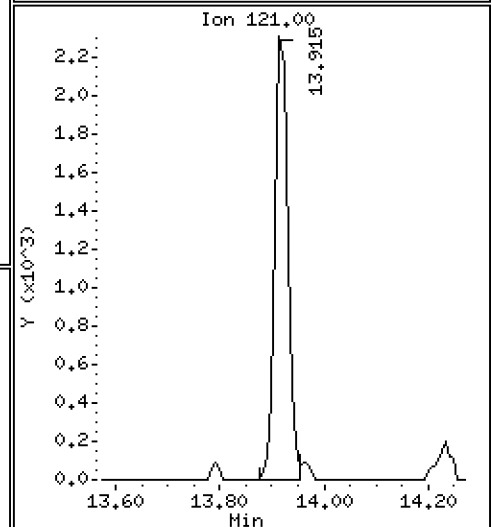
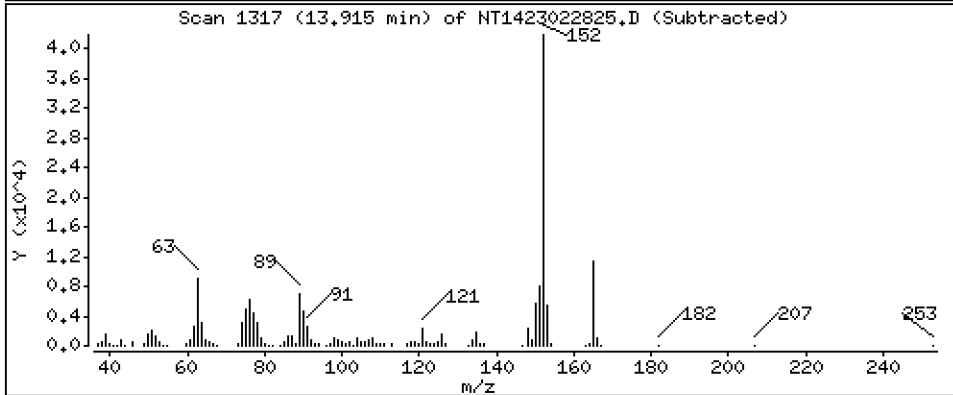
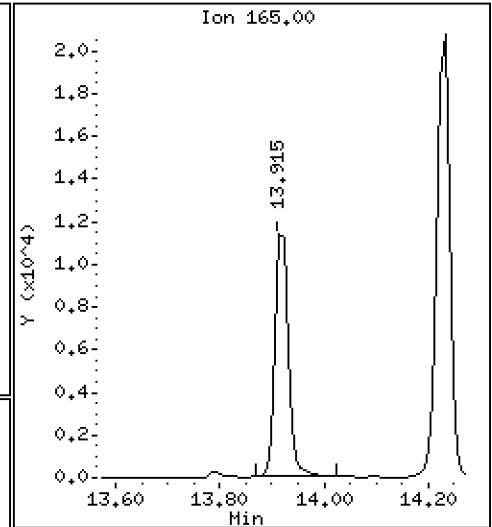
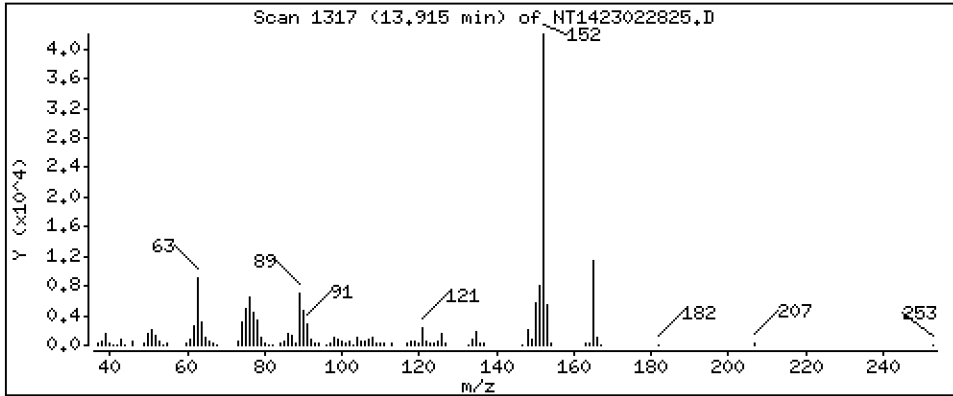
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

41 2,6-Dinitrotoluene

Concentration: 0.9944 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

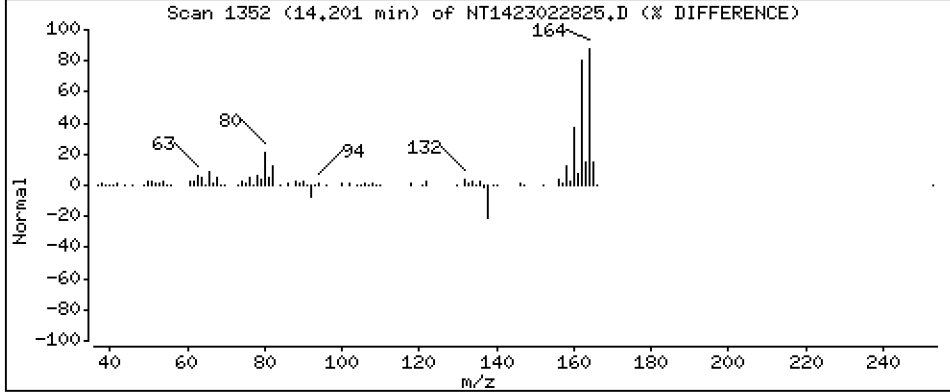
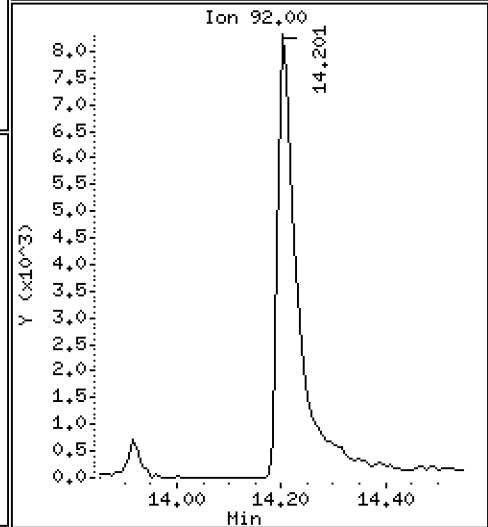
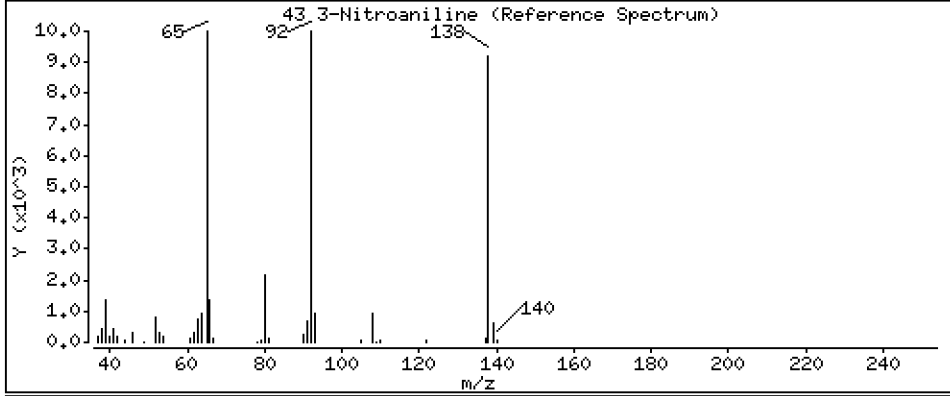
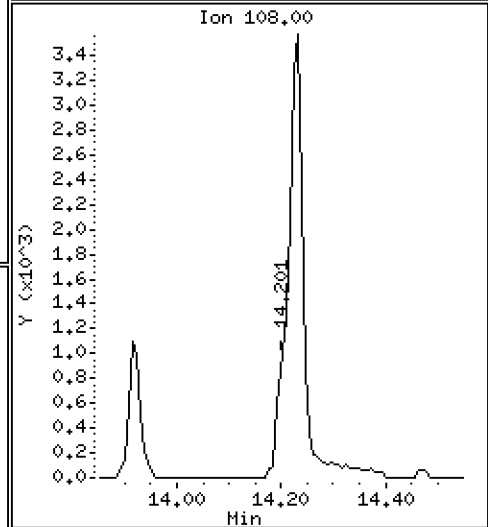
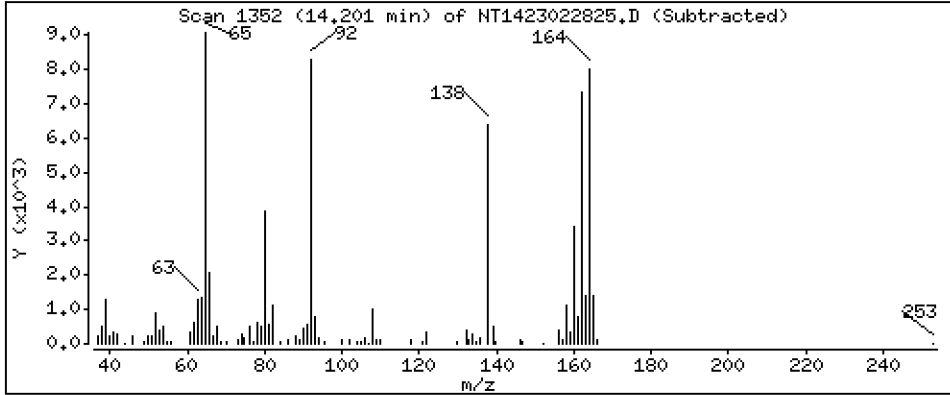
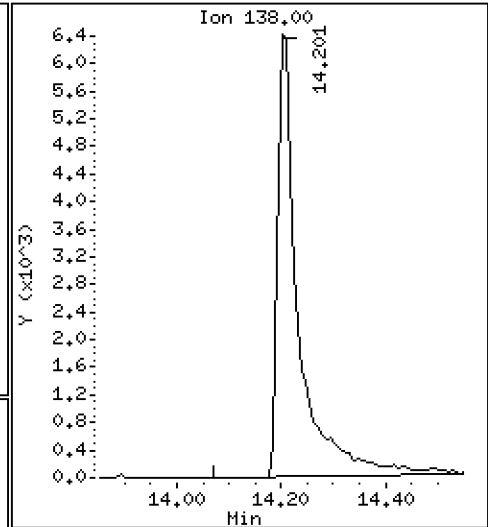
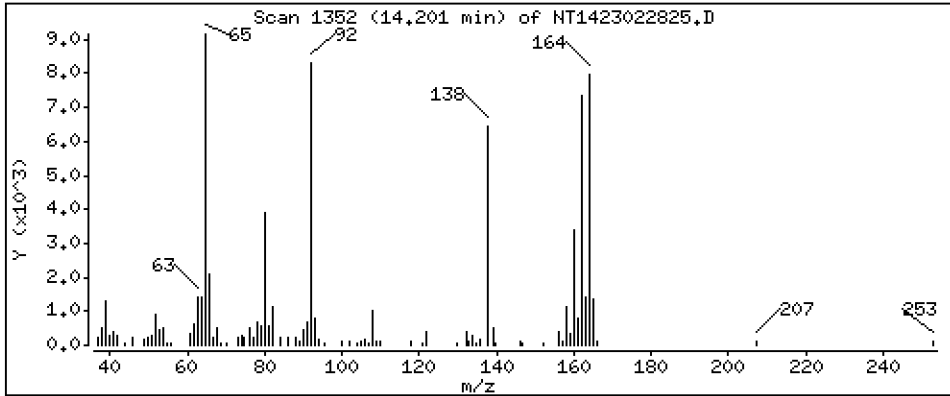
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

43 3-Nitroaniline

Concentration: 0,9113 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

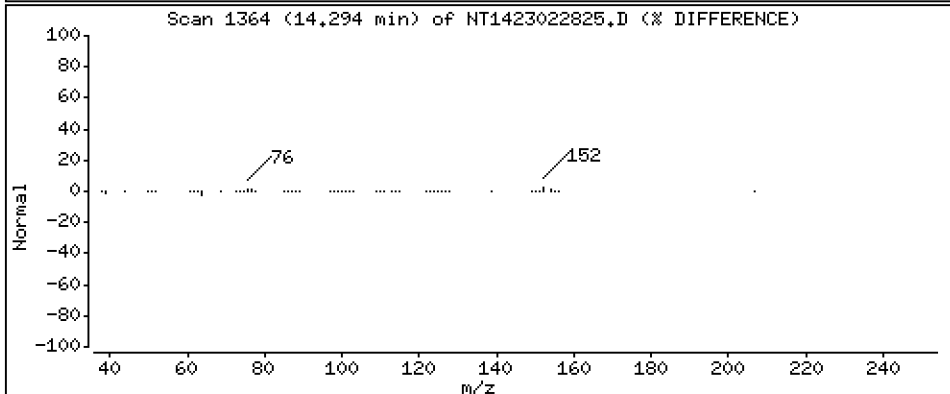
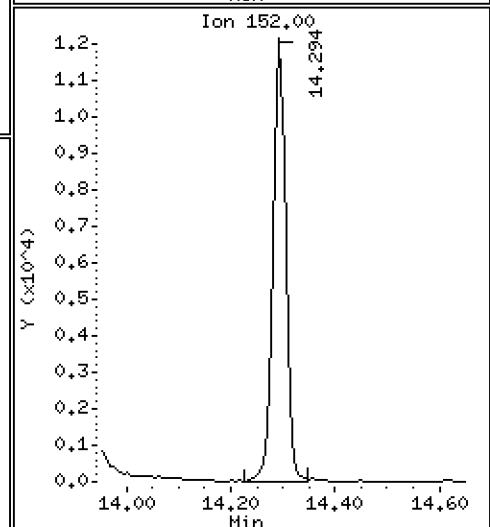
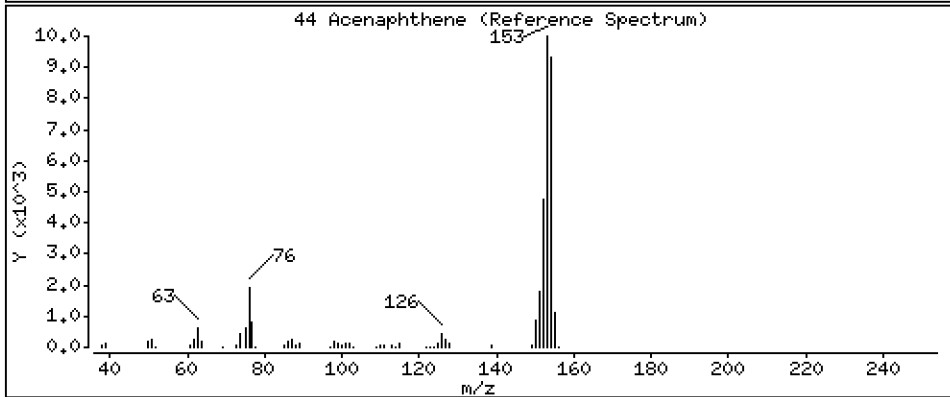
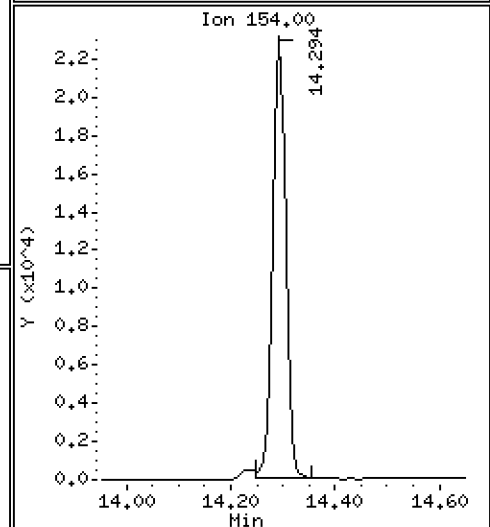
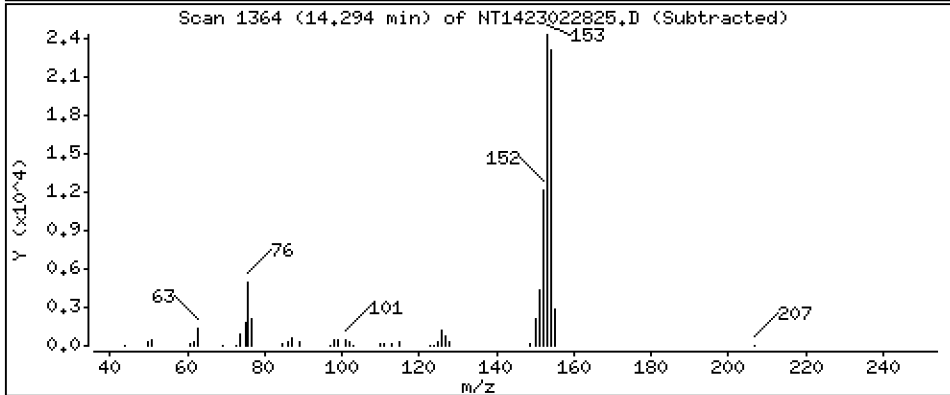
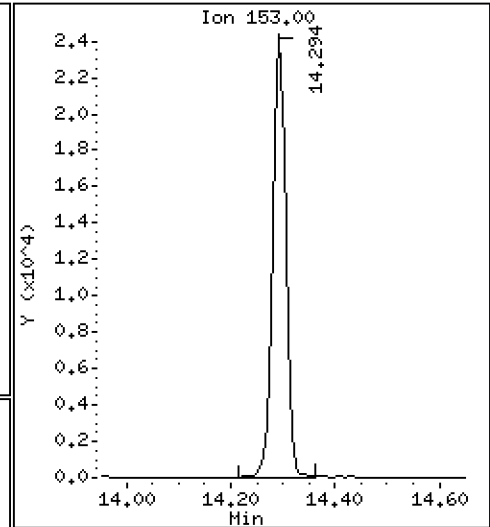
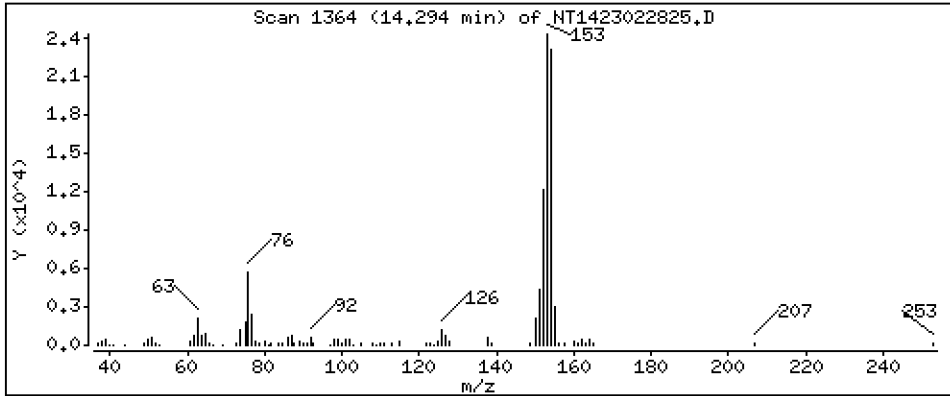
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 0,5211 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

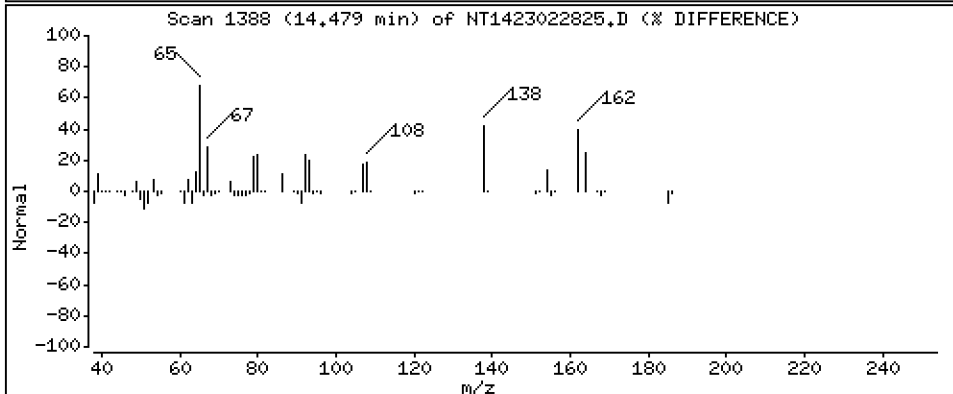
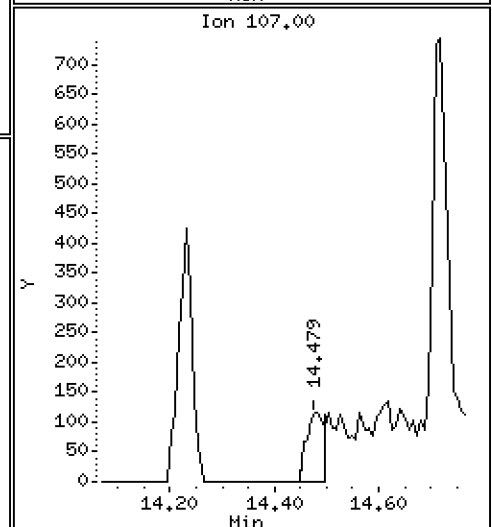
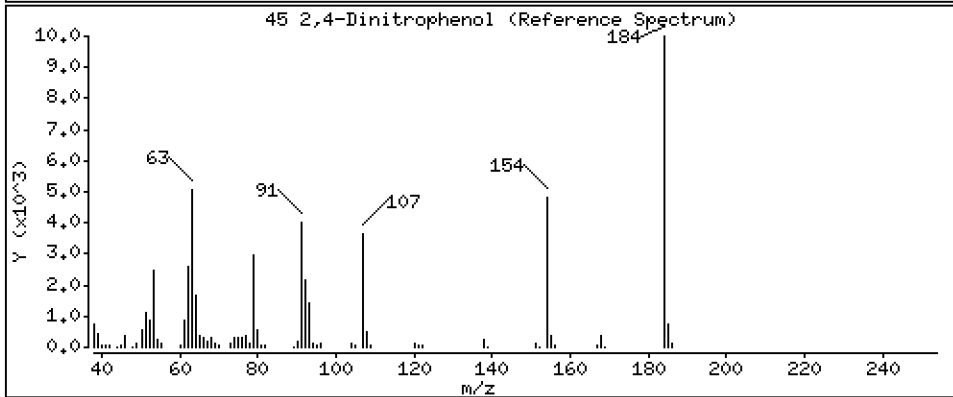
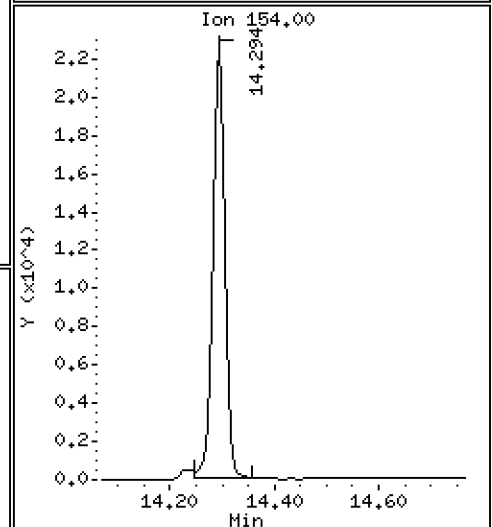
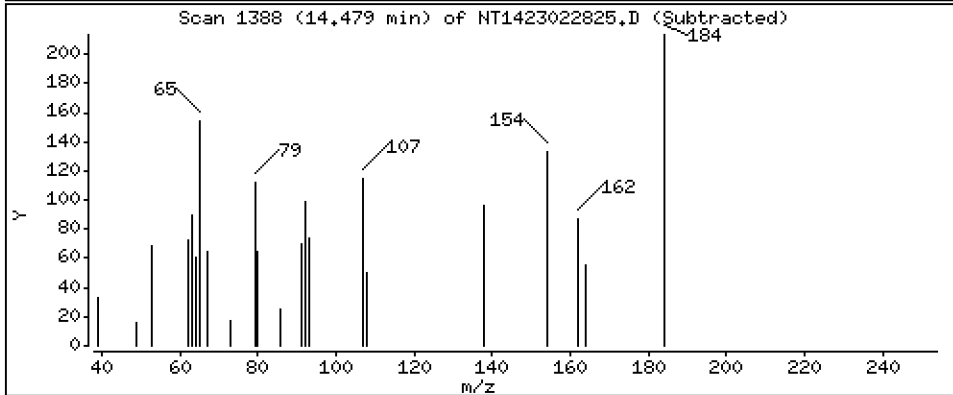
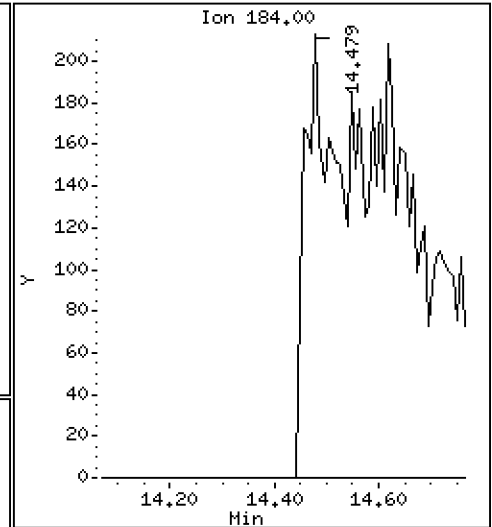
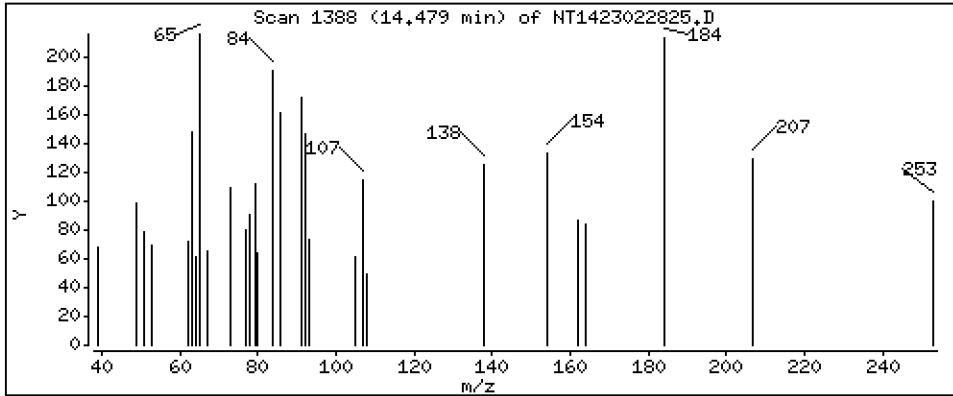
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

45 2,4-Dinitrophenol

Concentration: 0,3335 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

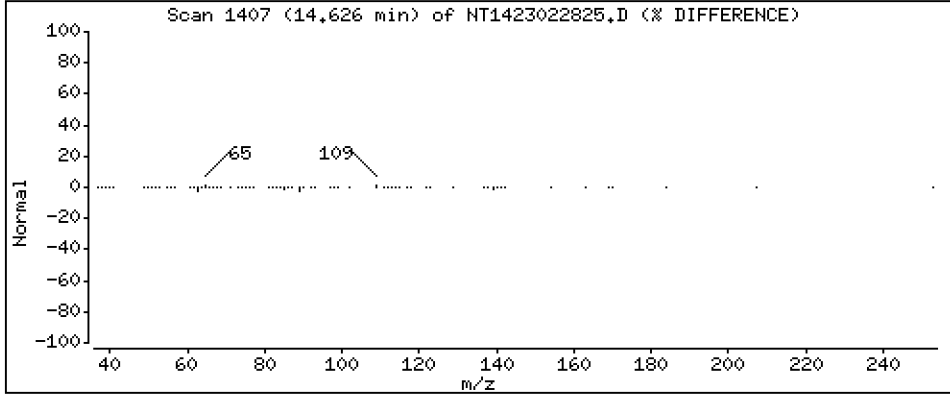
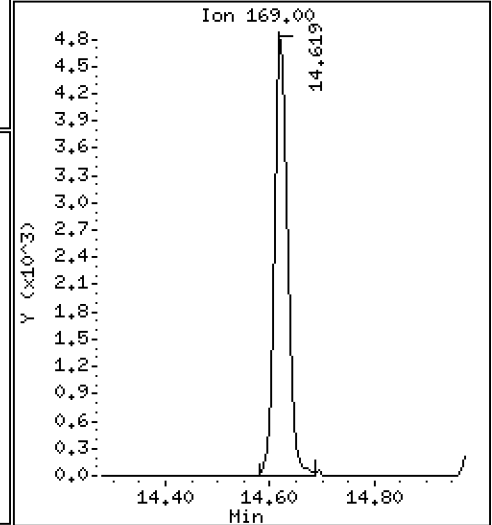
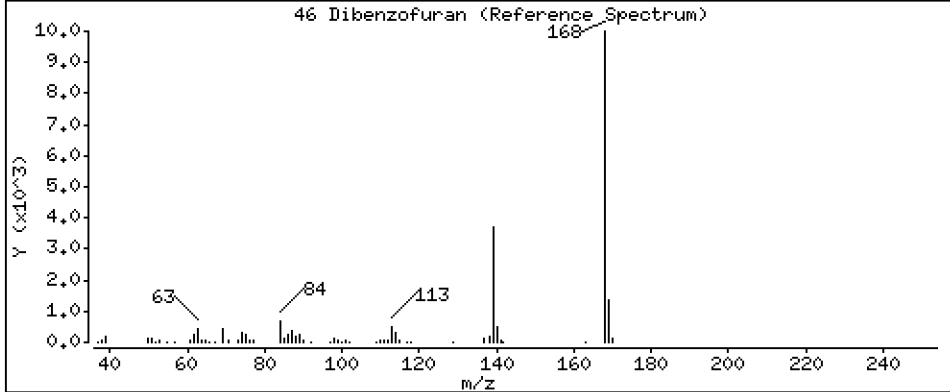
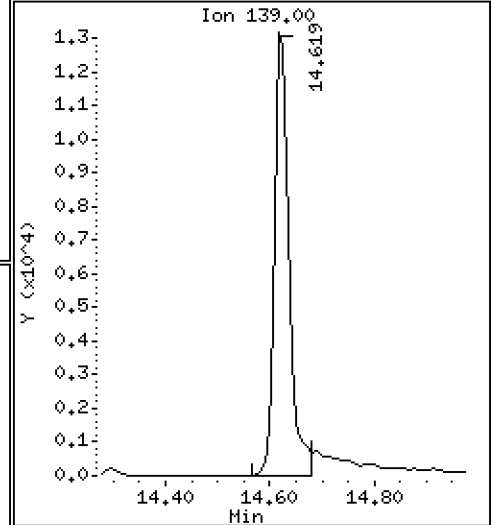
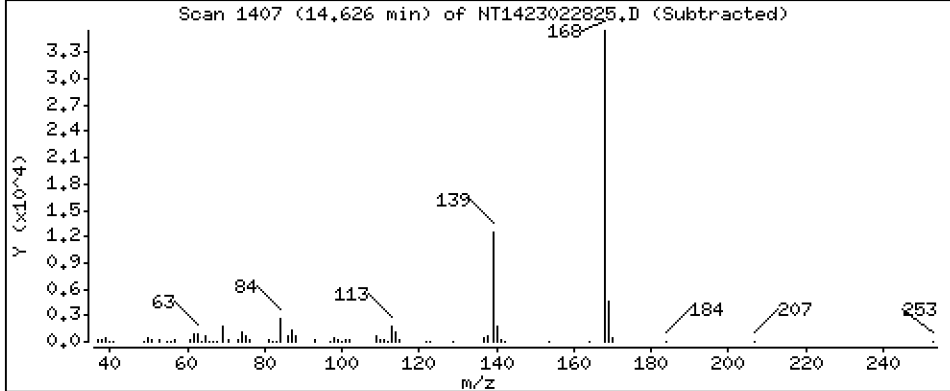
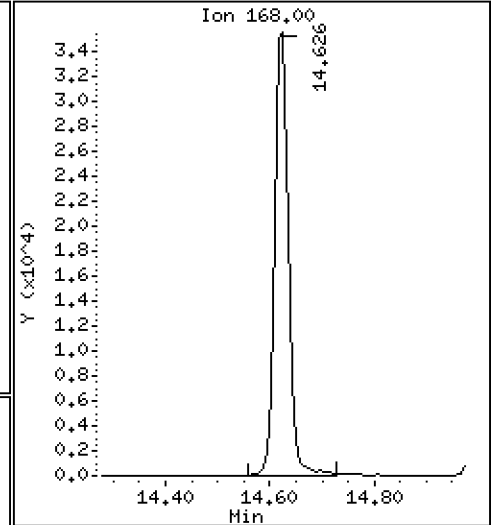
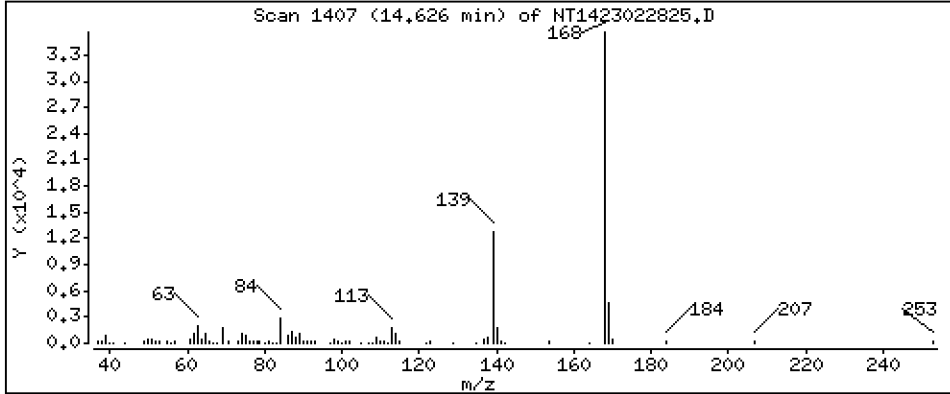
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 0,5081 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

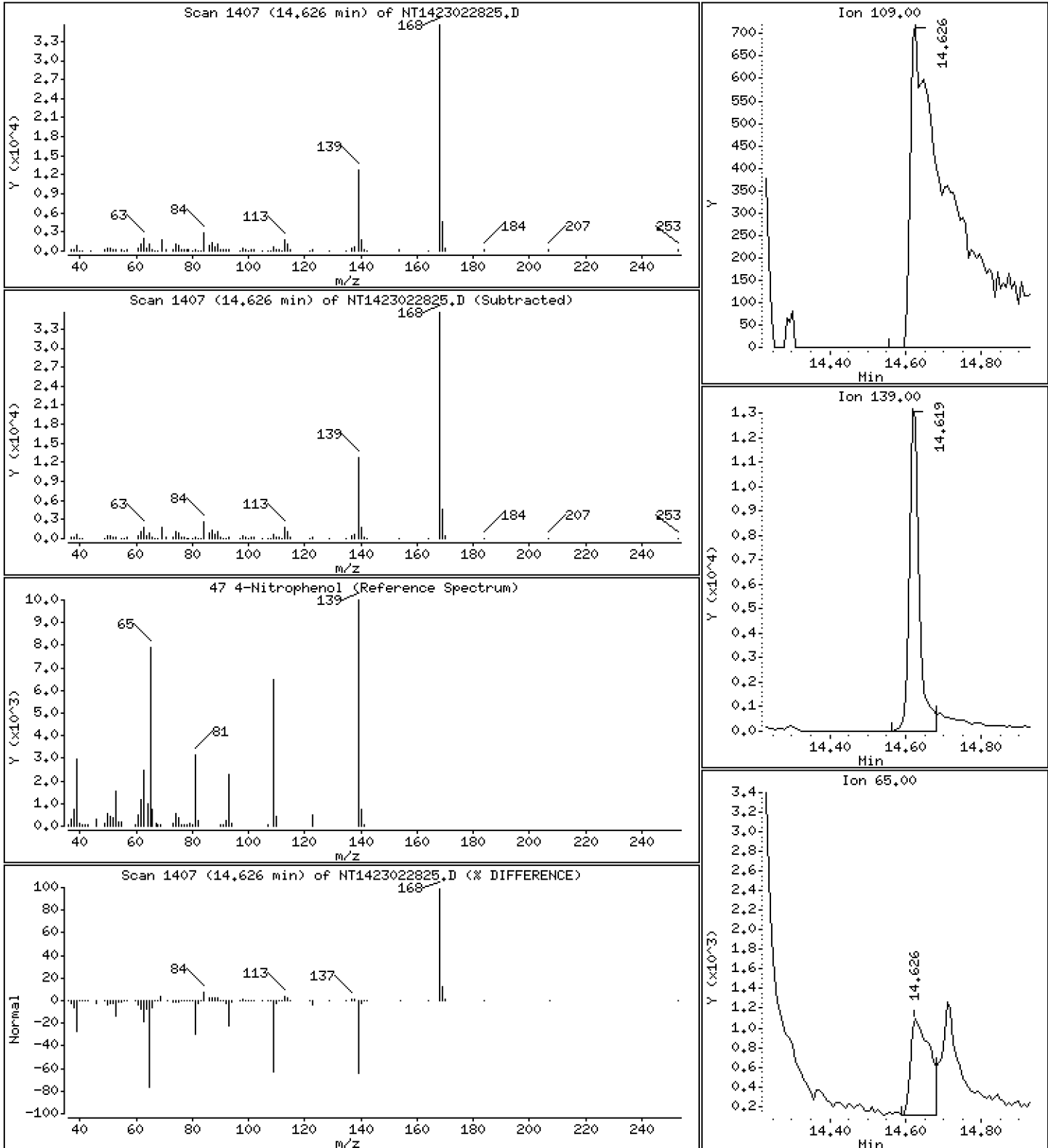
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

47 4-Nitrophenol

Concentration: 0.7283 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

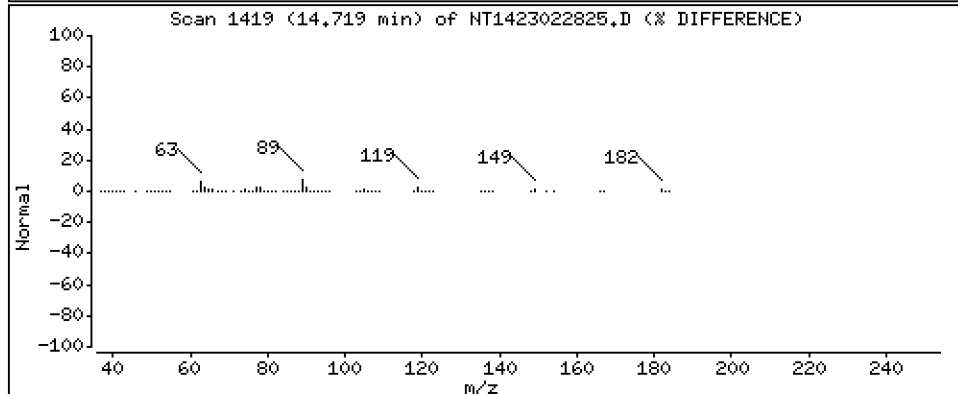
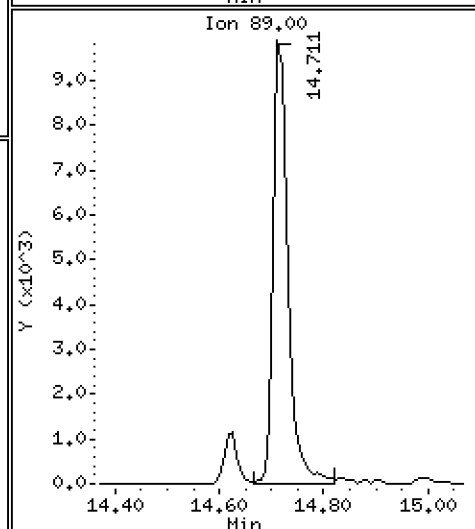
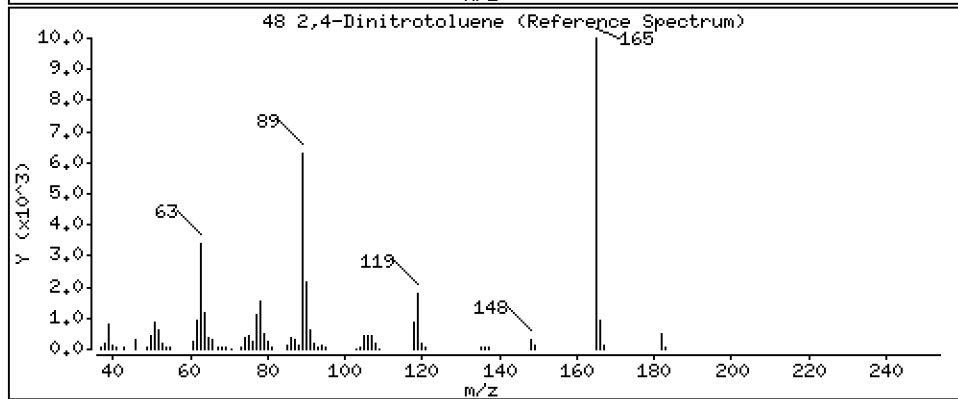
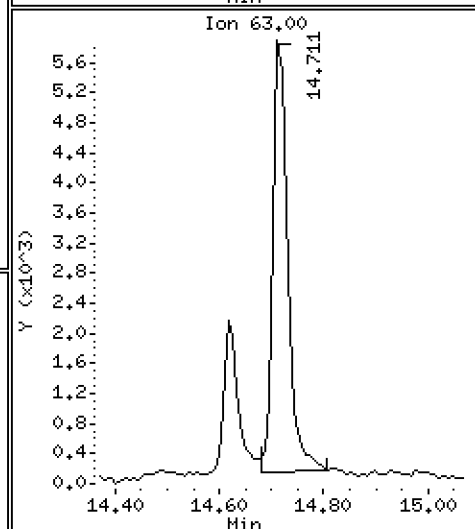
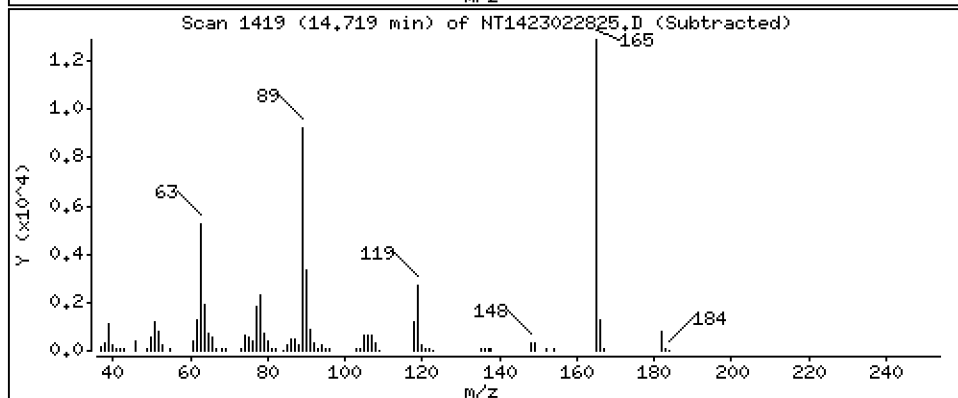
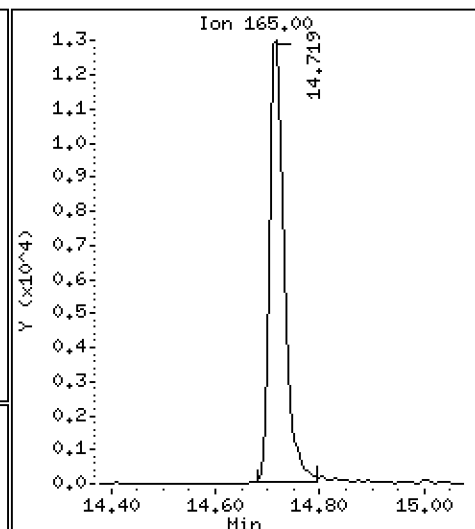
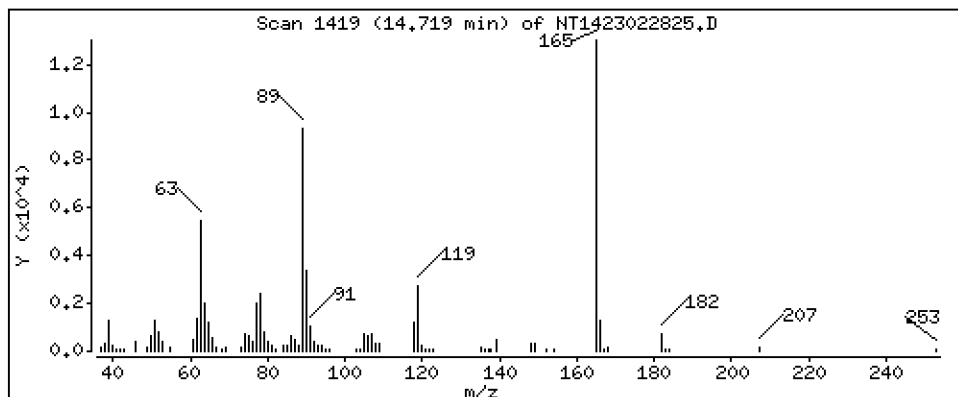
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

48 2,4-Dinitrotoluene

Concentration: 0.8625 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

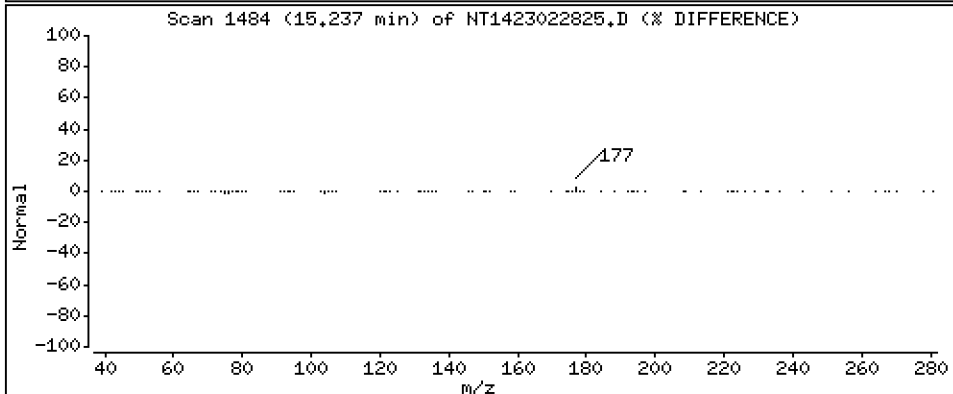
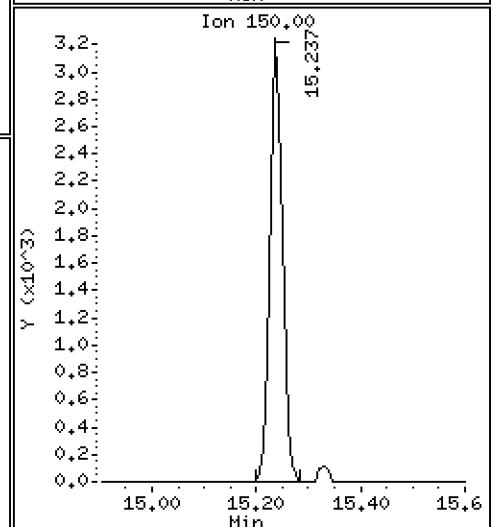
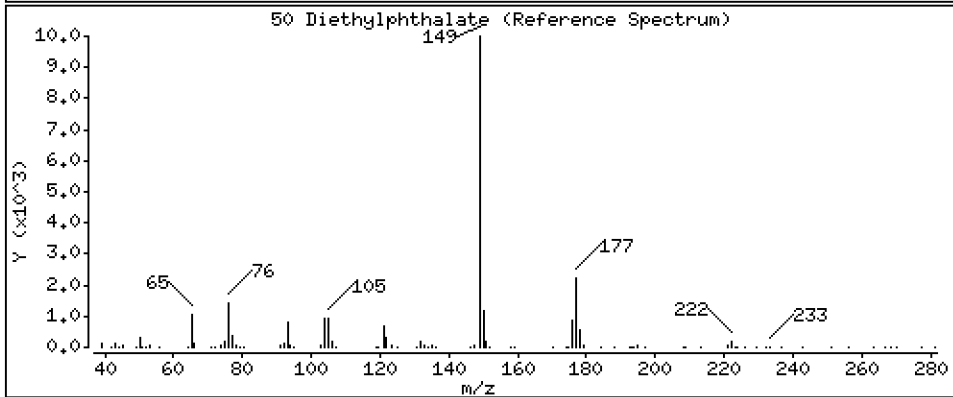
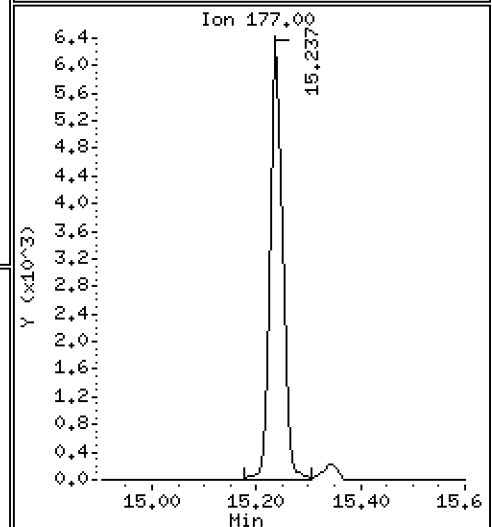
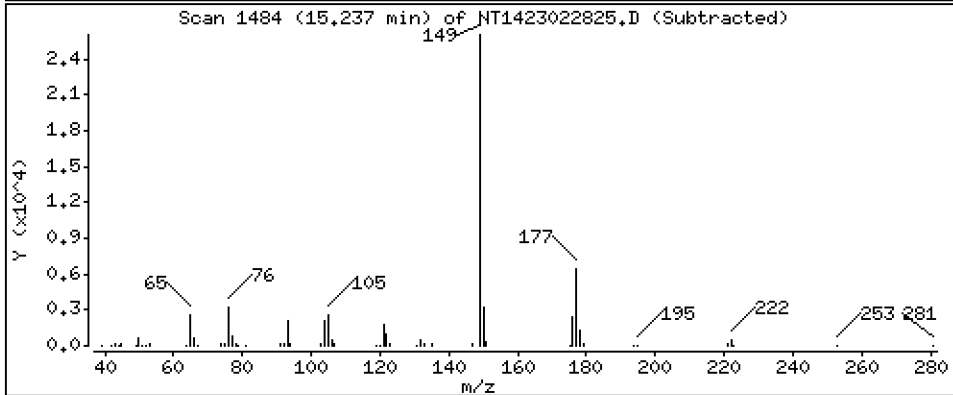
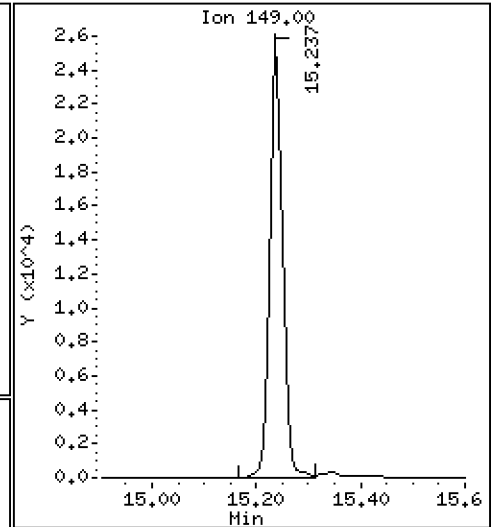
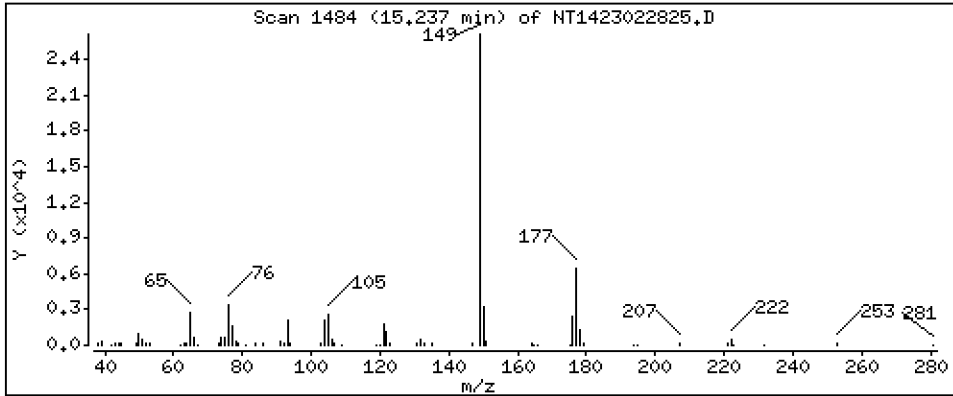
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 0,5434 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

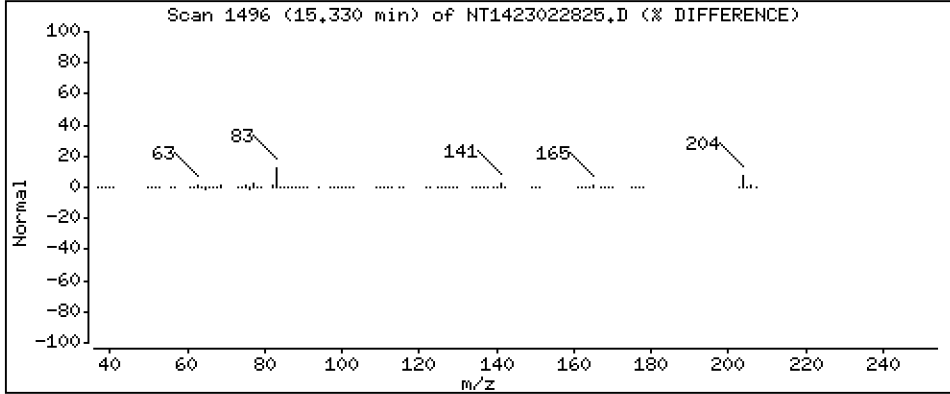
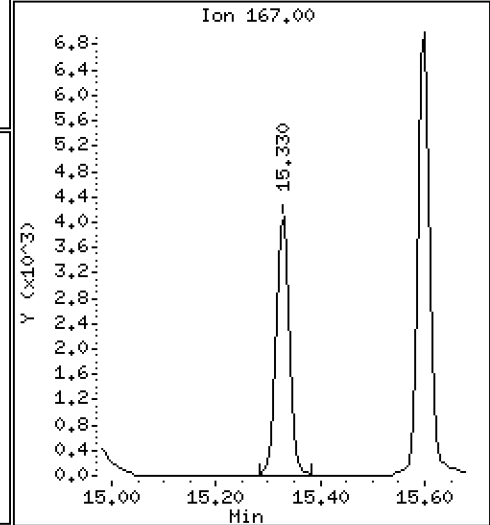
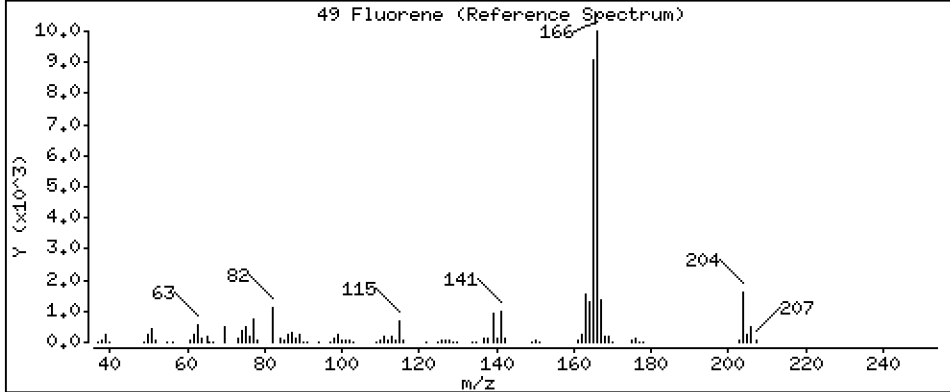
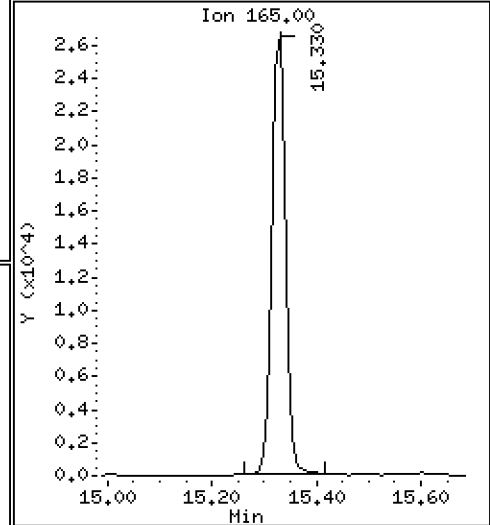
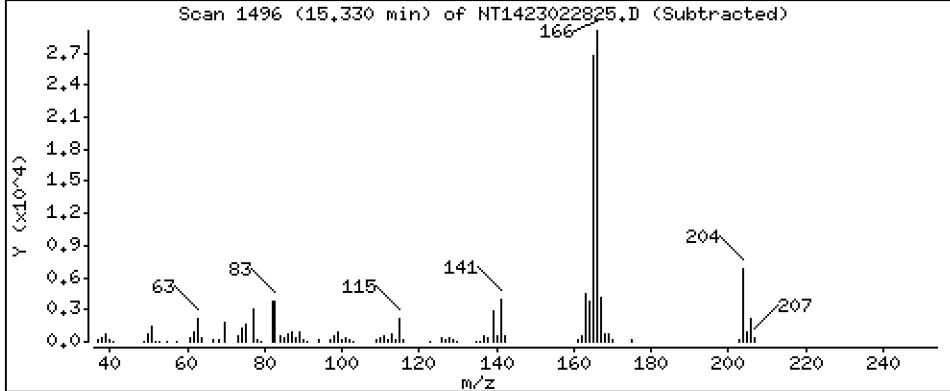
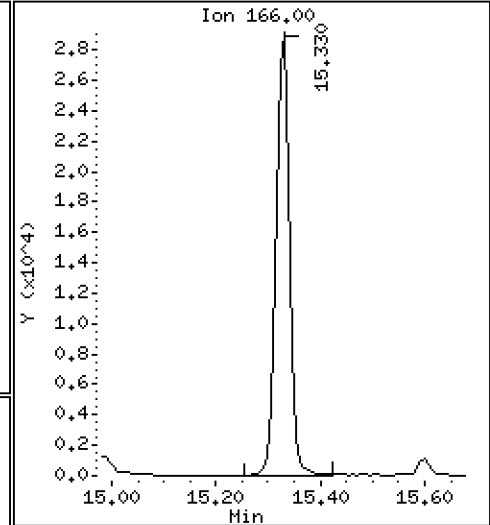
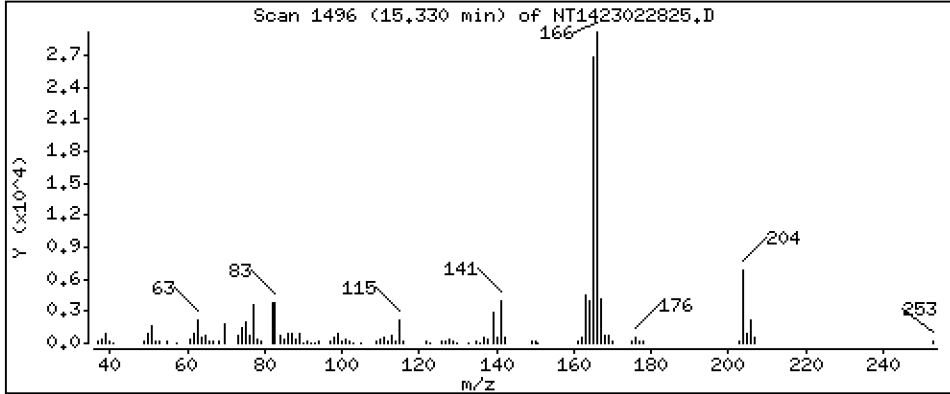
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 0,5354 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

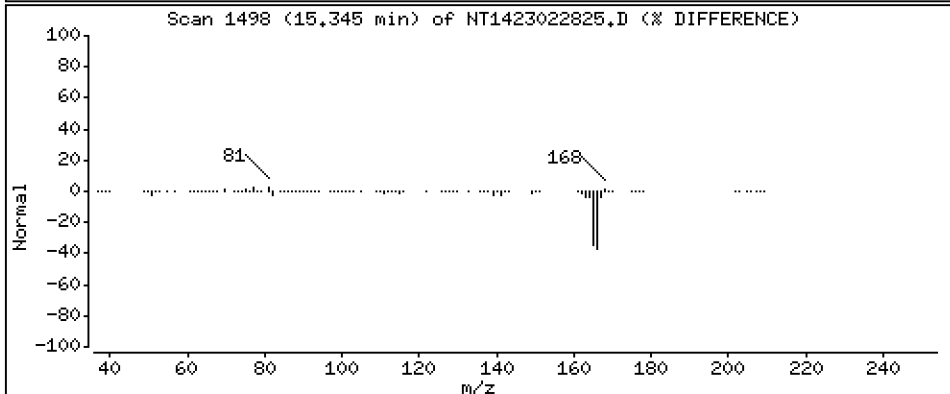
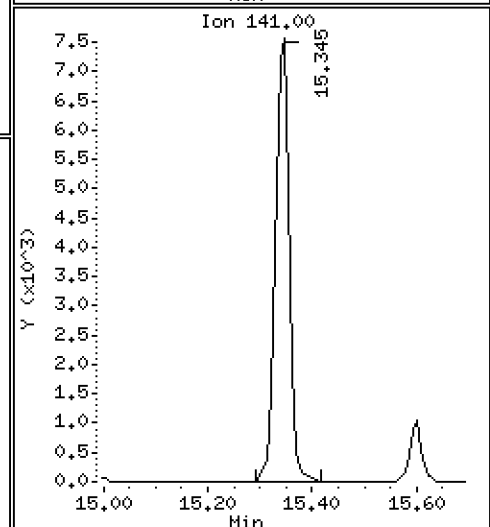
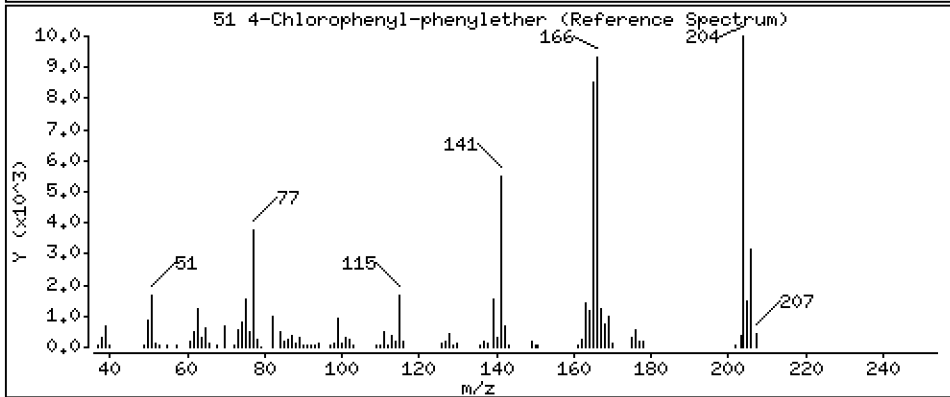
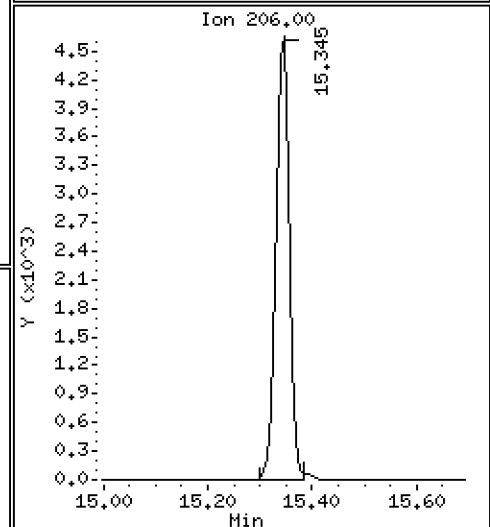
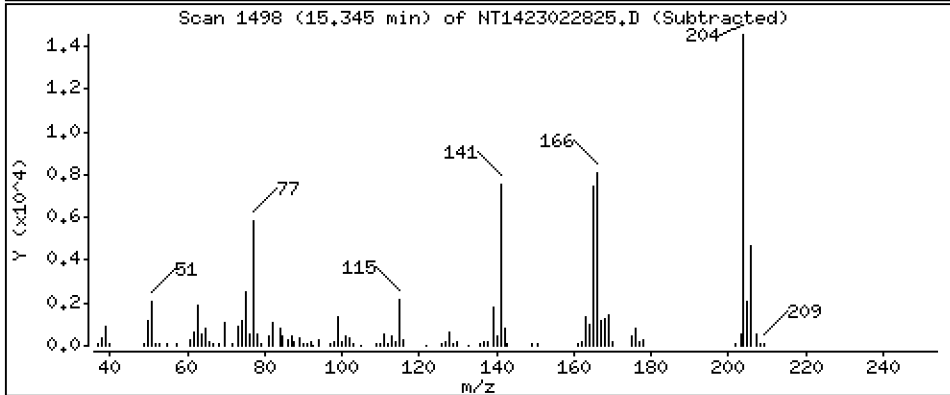
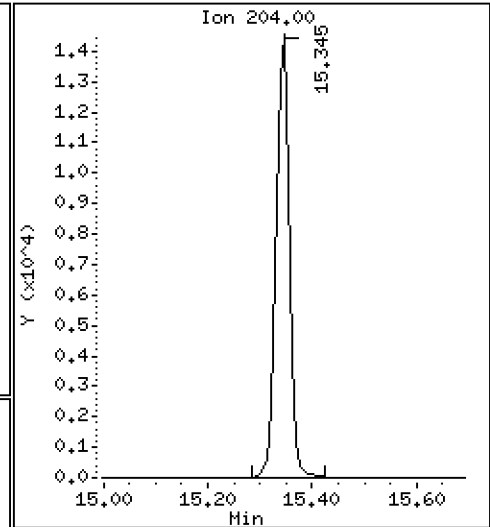
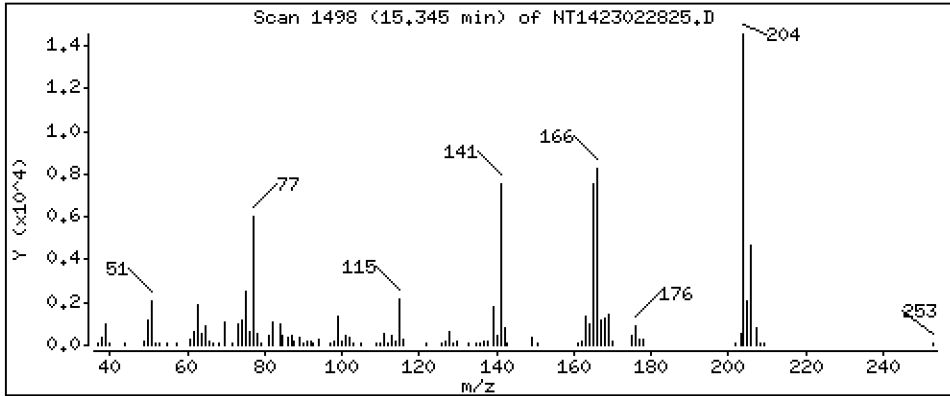
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 0,5072 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

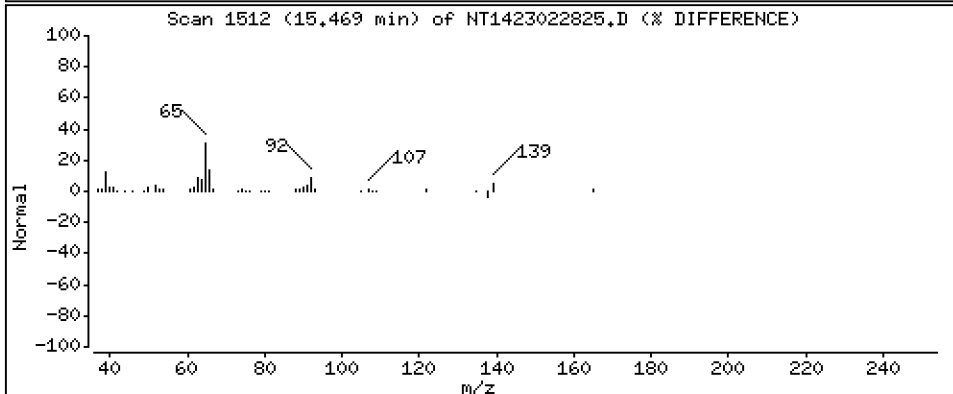
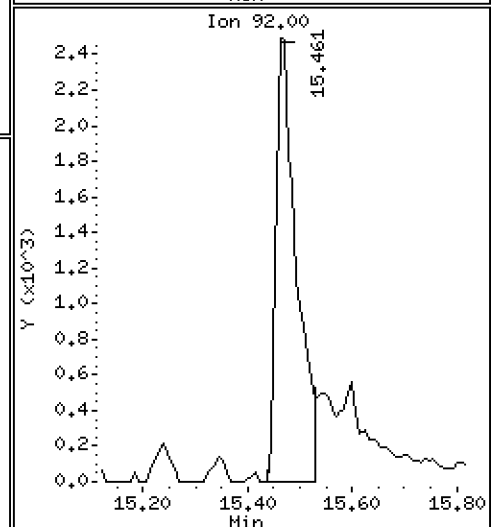
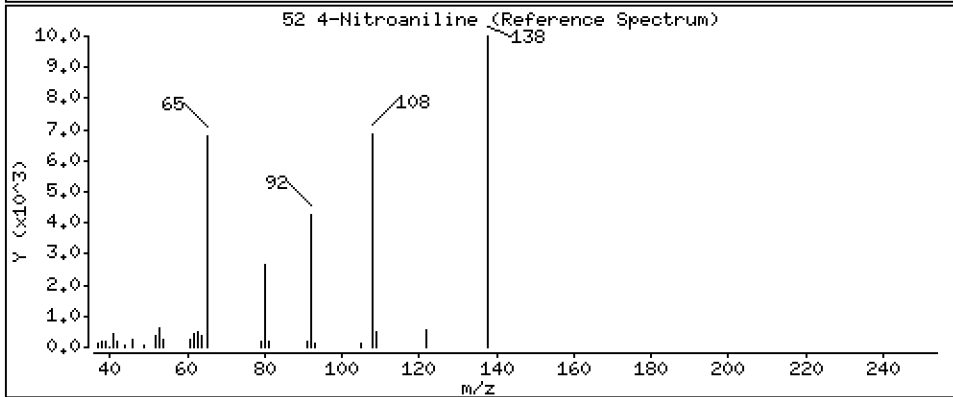
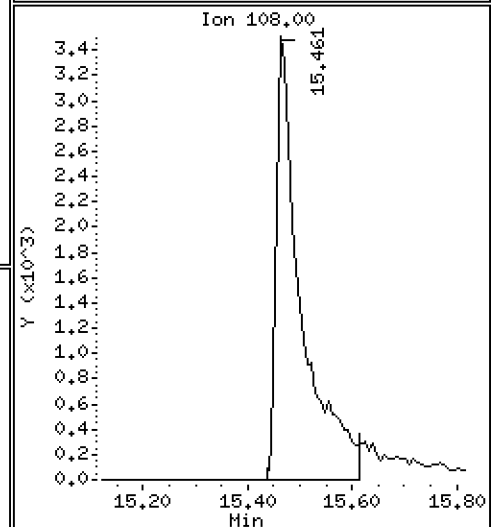
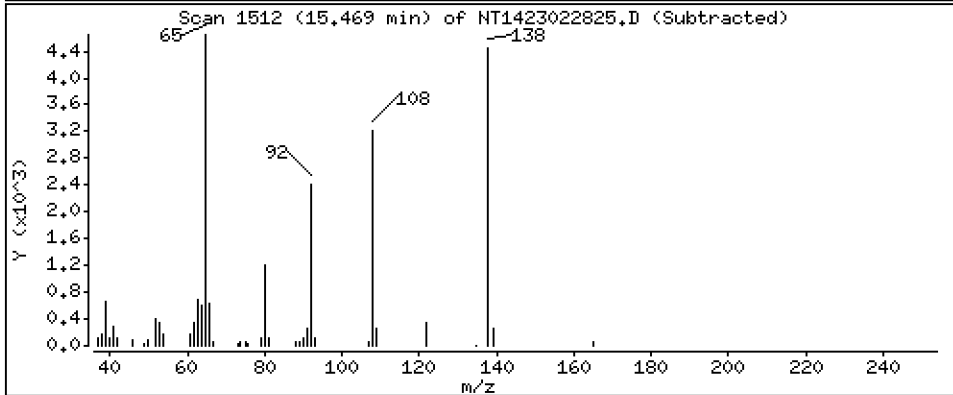
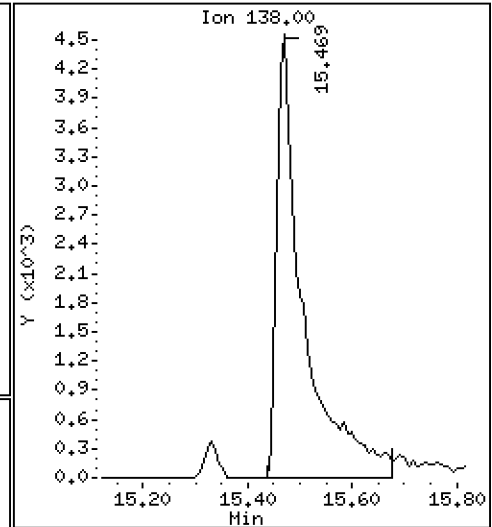
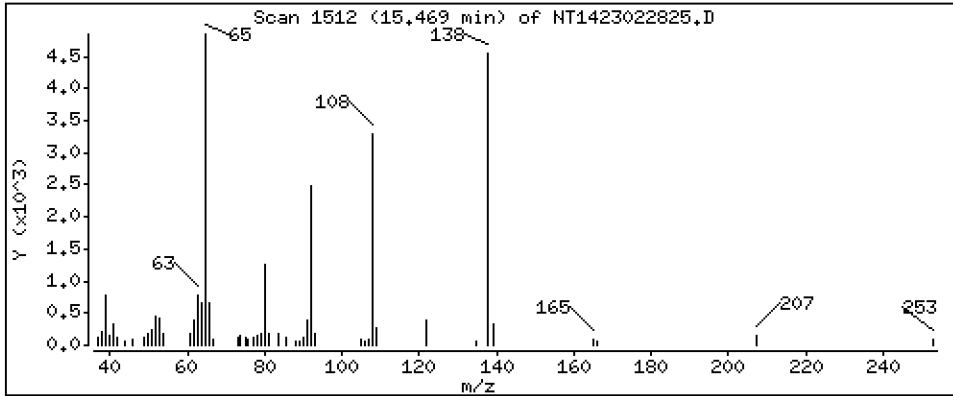
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

52 4-Nitroaniline

Concentration: 0,8070 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

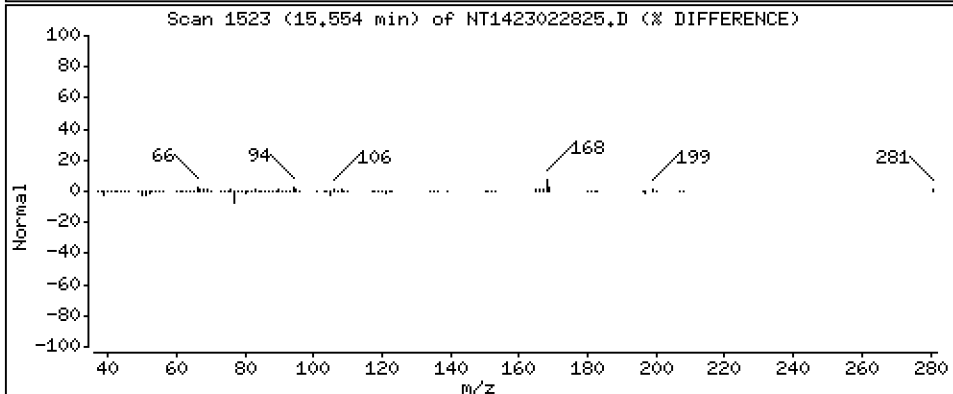
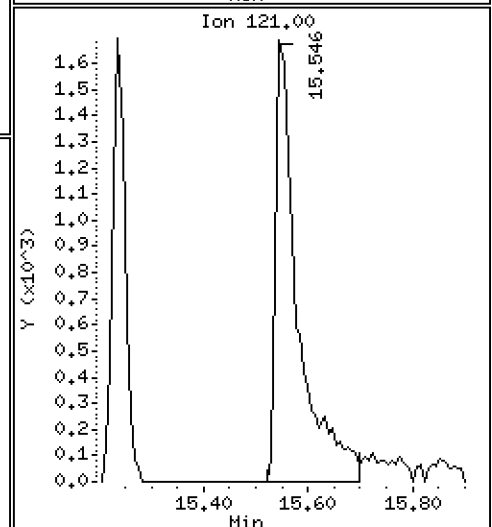
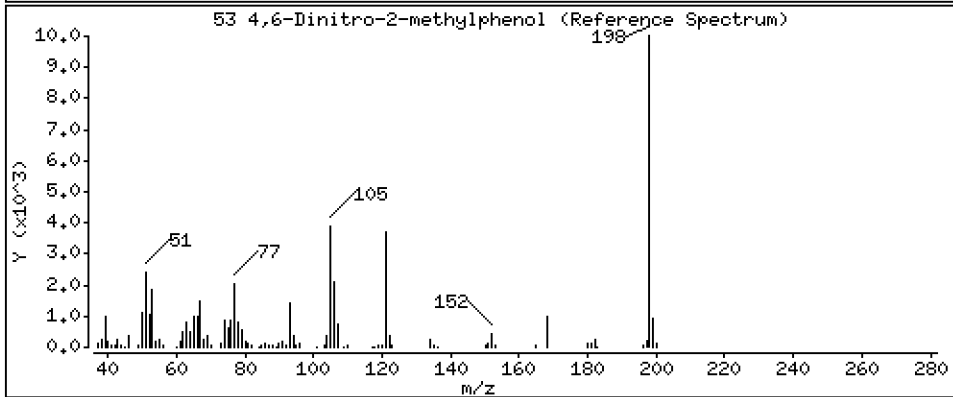
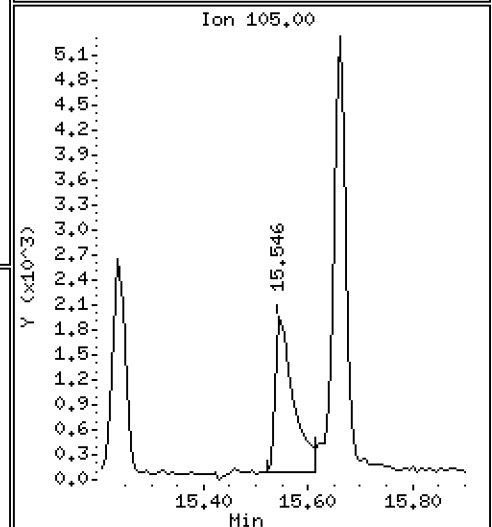
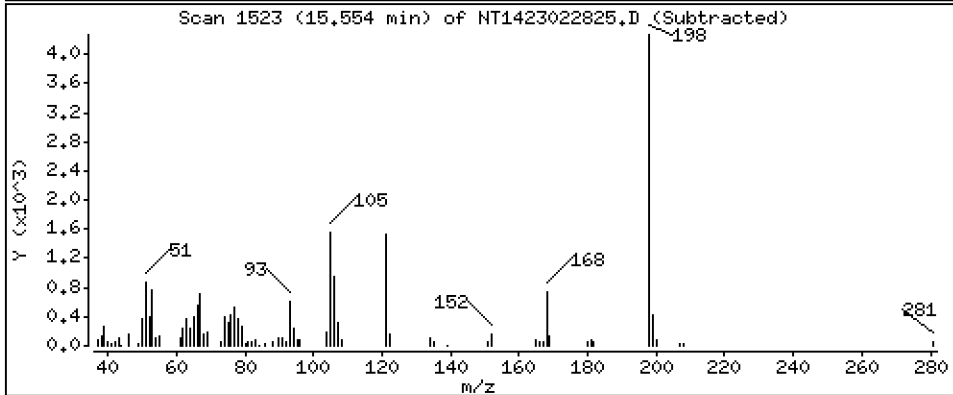
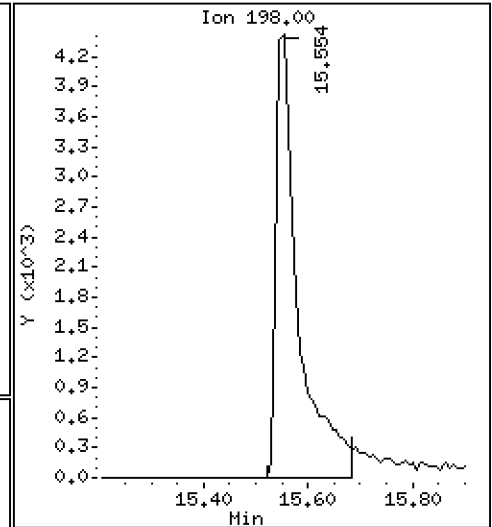
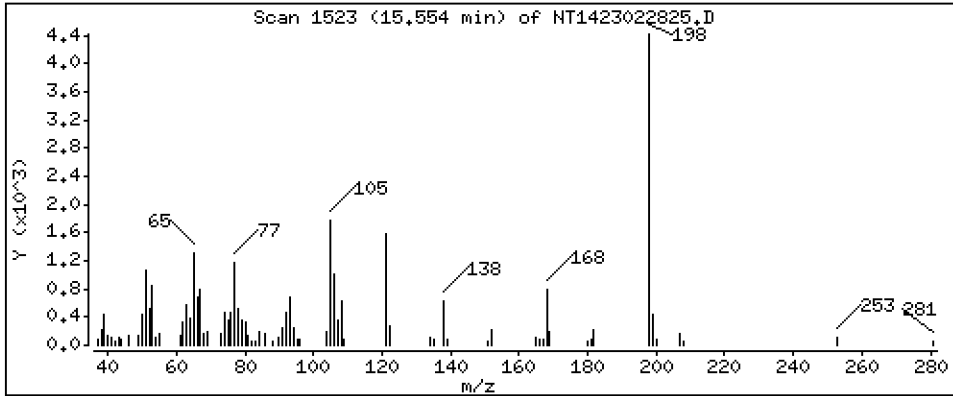
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

53 4,6-Dinitro-2-methylphenol

Concentration: 0.7654 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

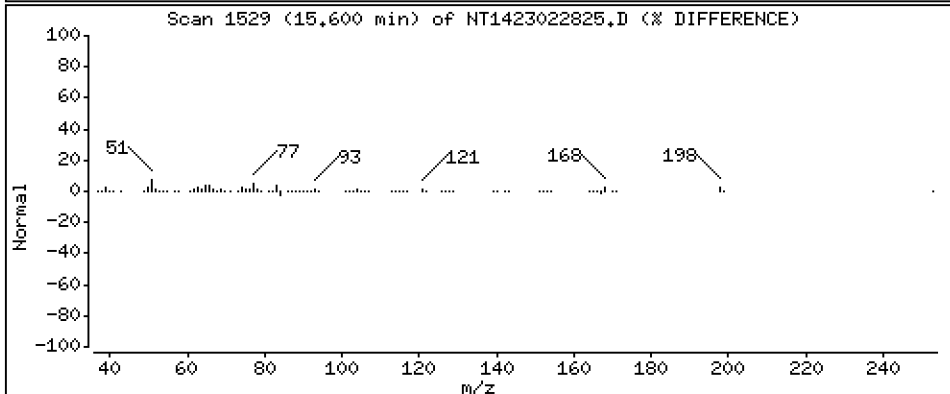
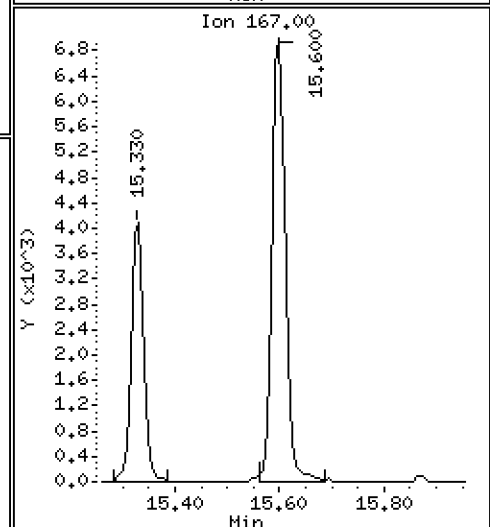
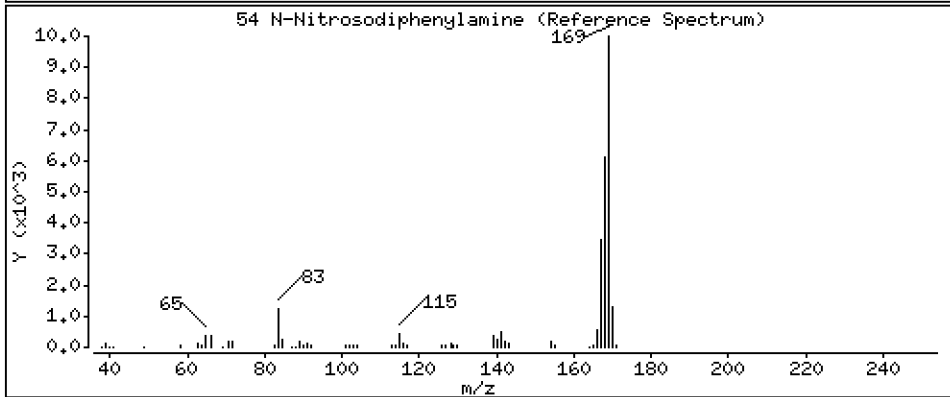
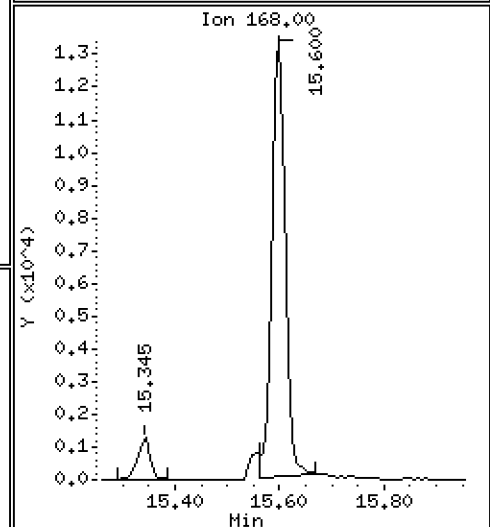
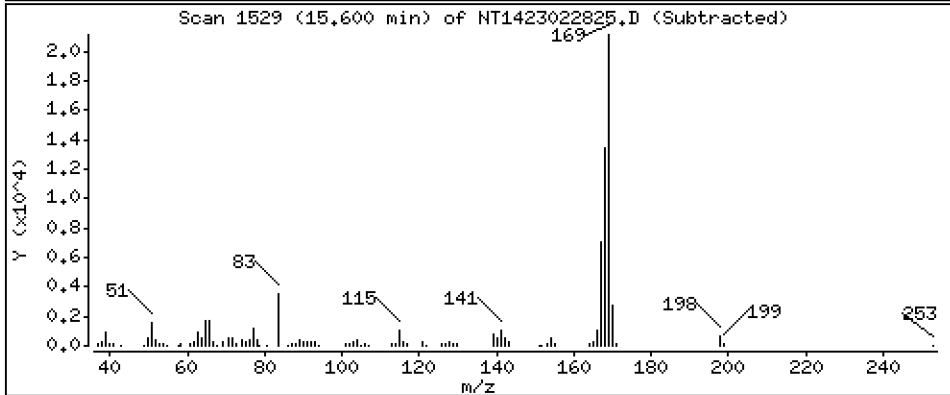
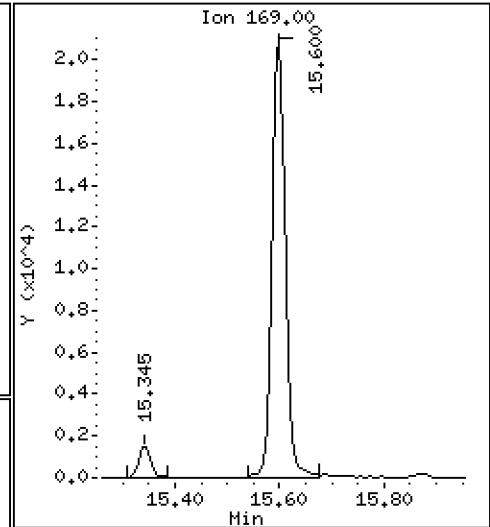
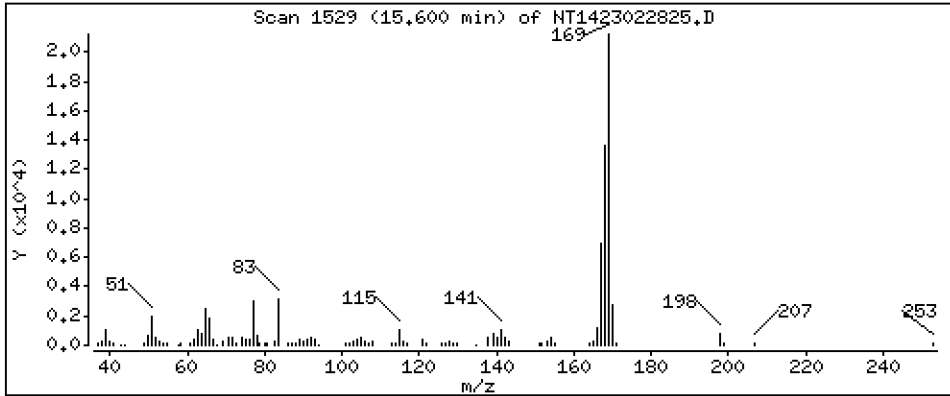
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

54 N-Nitrosodiphenylamine

Concentration: 0,5552 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

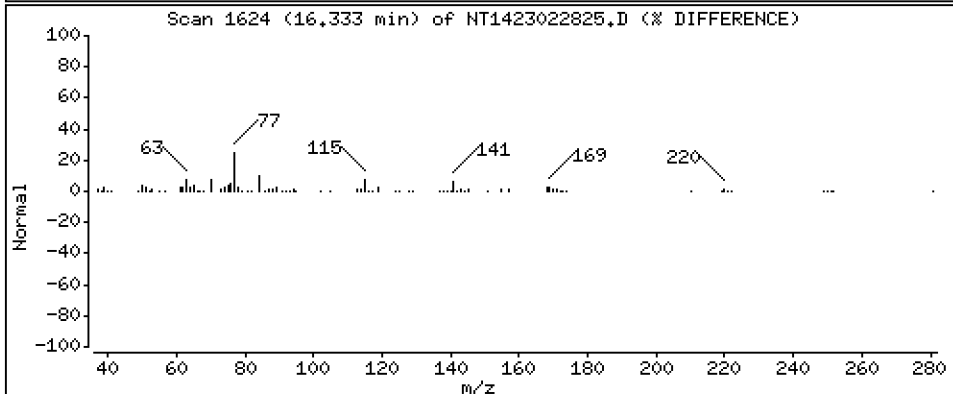
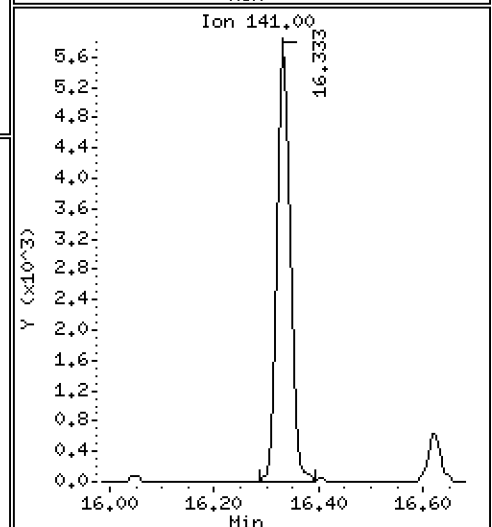
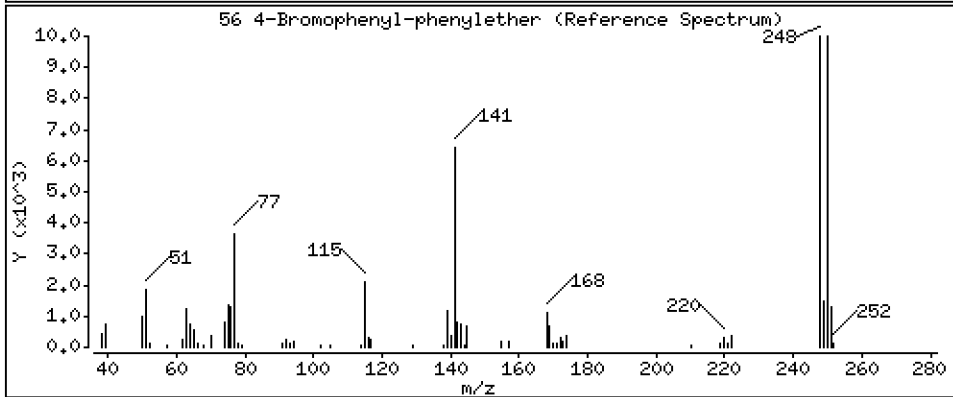
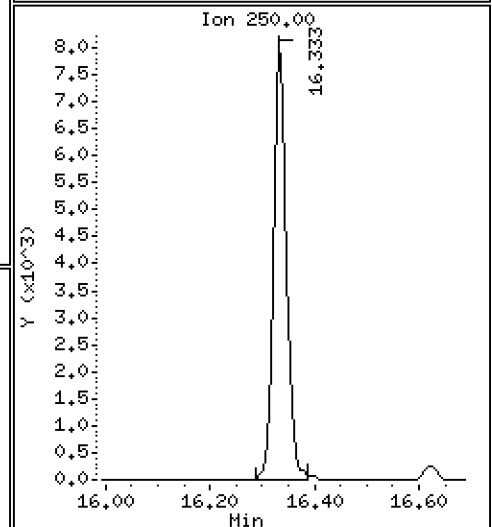
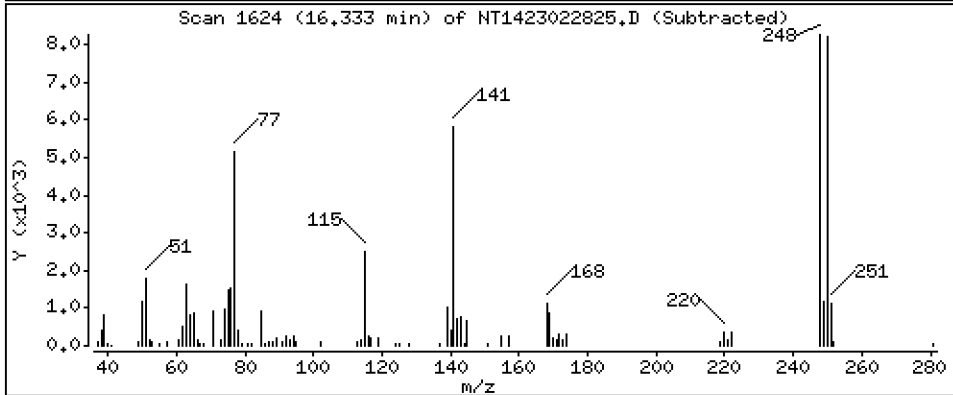
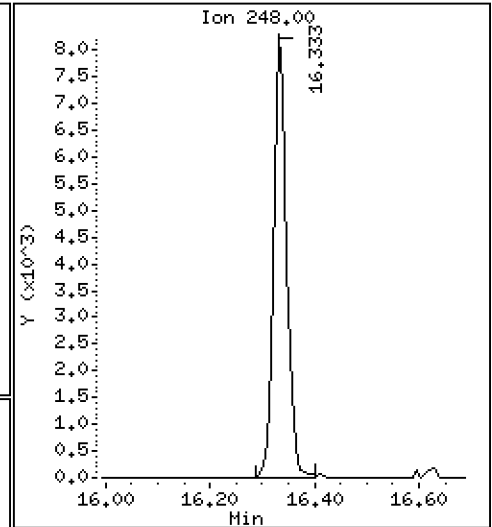
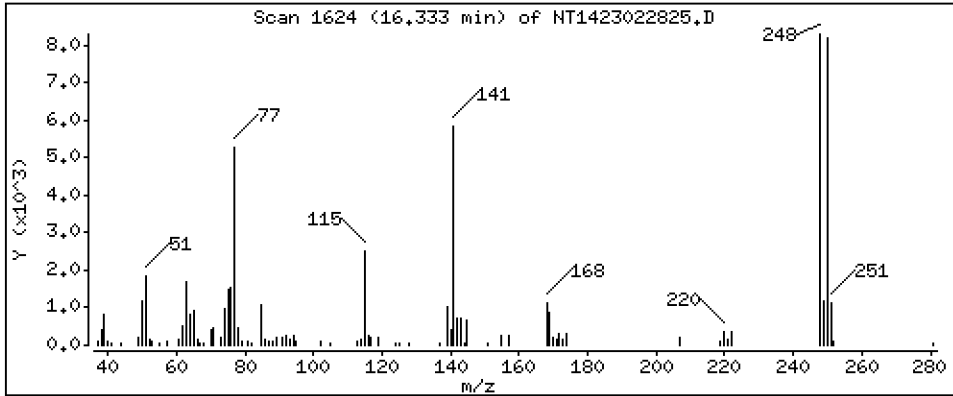
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 0,5135 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

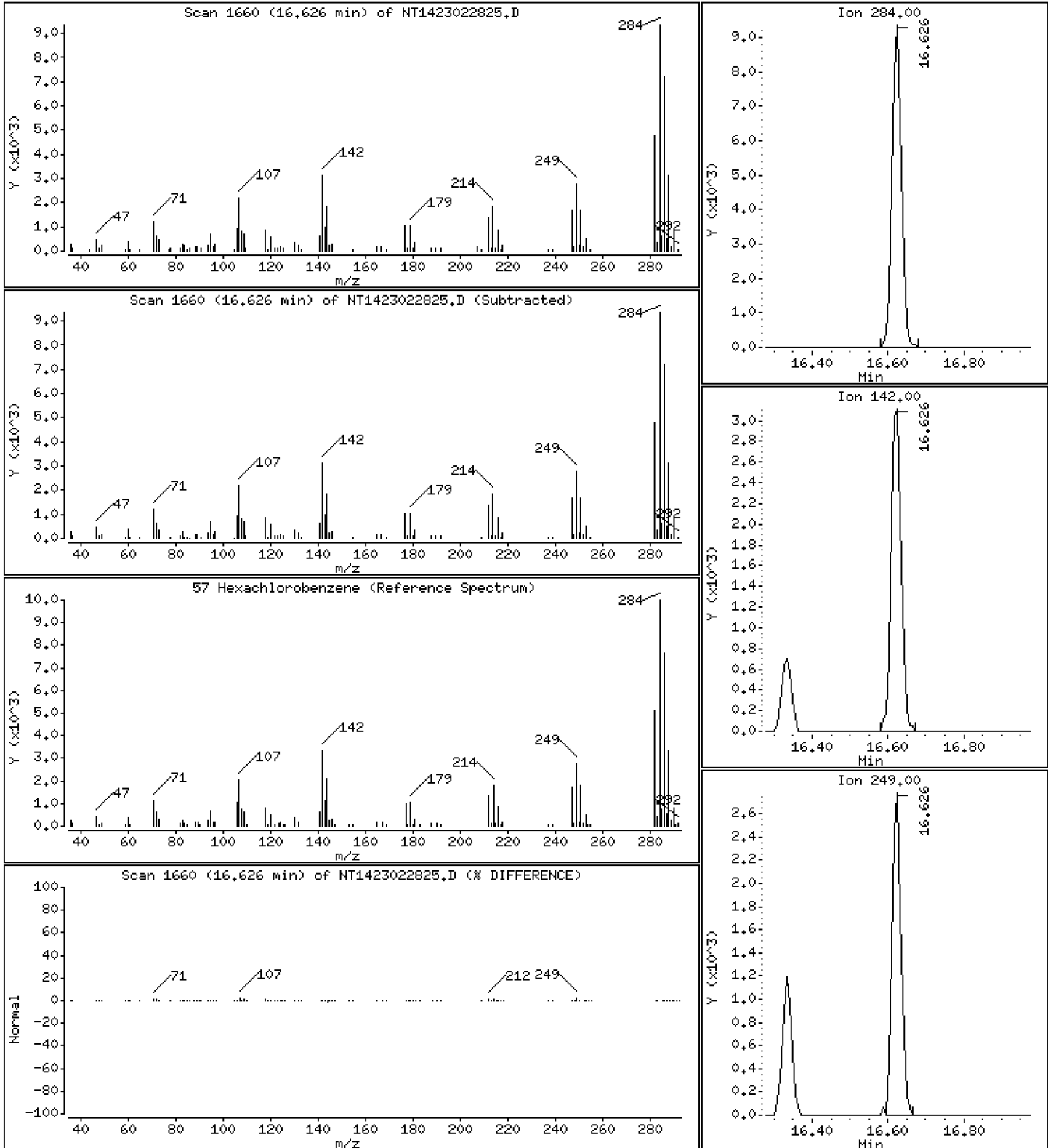
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

57 Hexachlorobenzene

Concentration: 0,5198 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

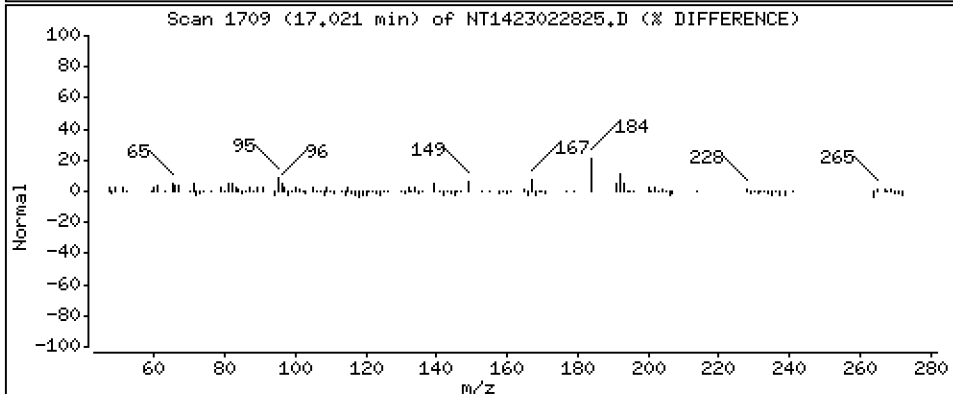
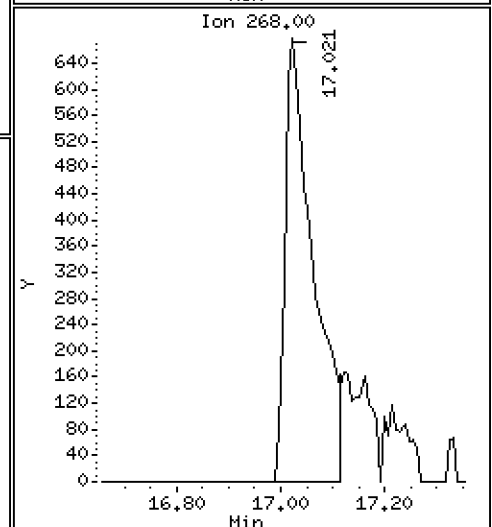
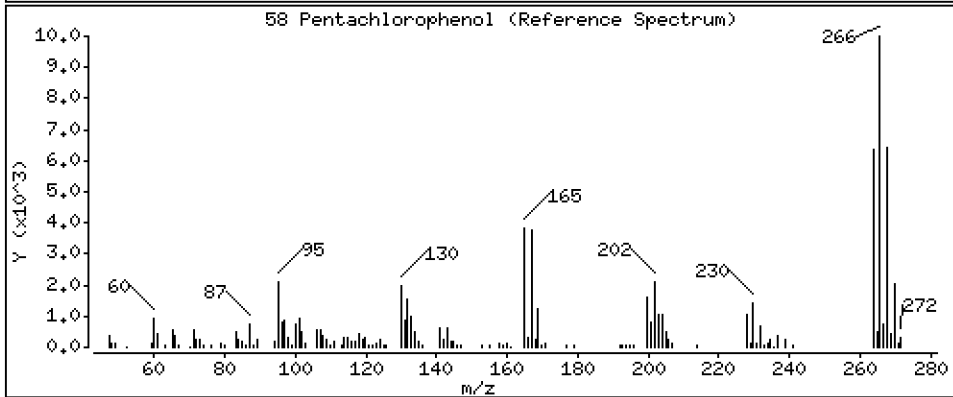
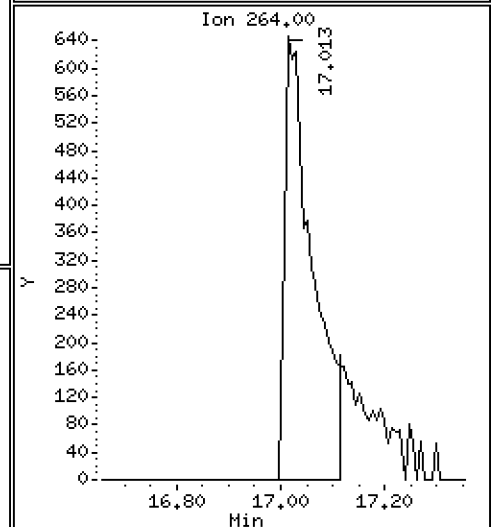
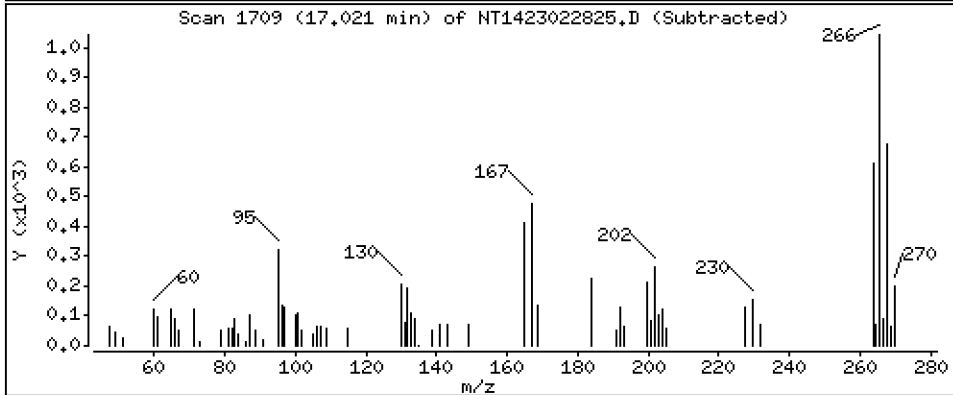
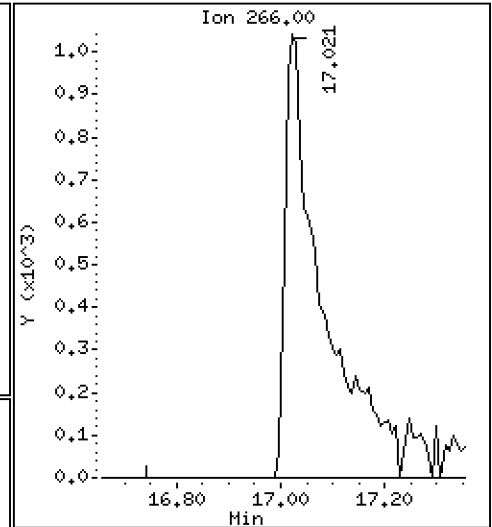
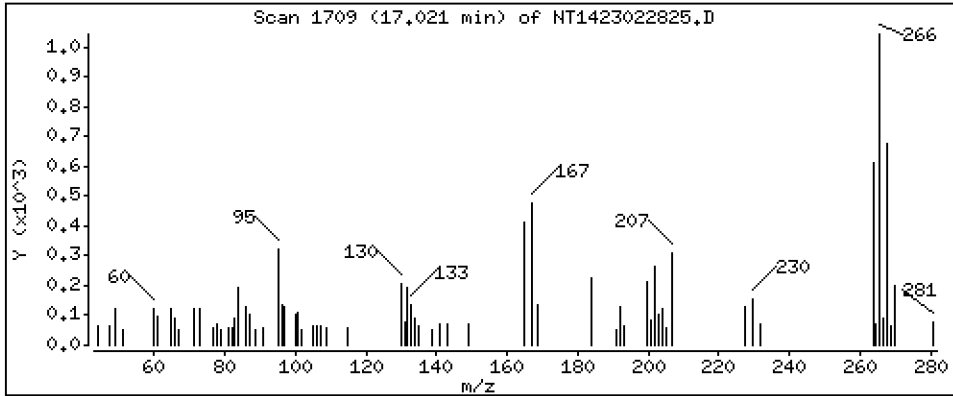
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 0,4279 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

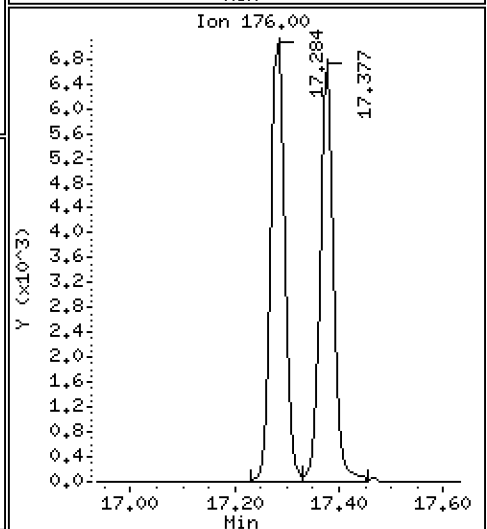
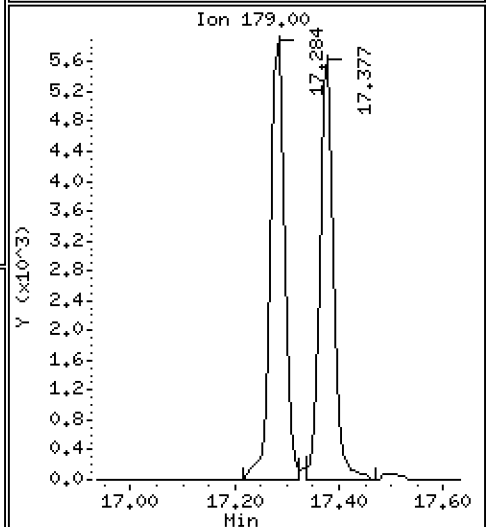
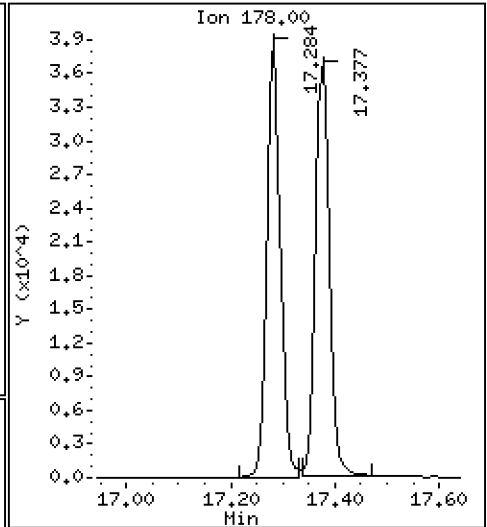
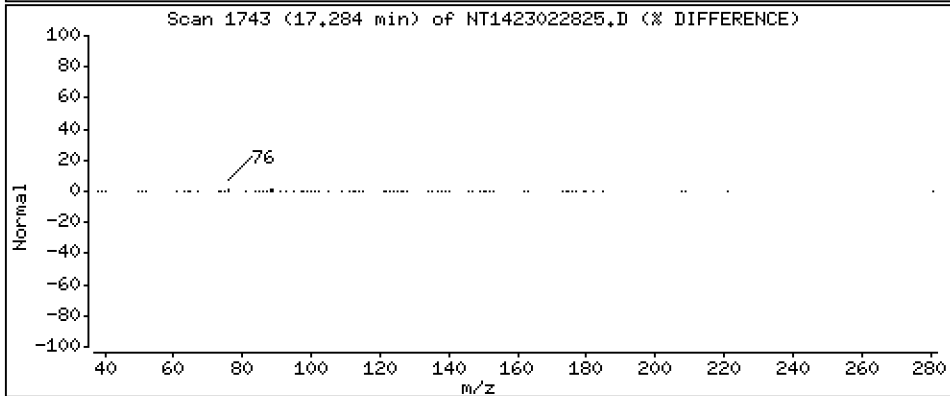
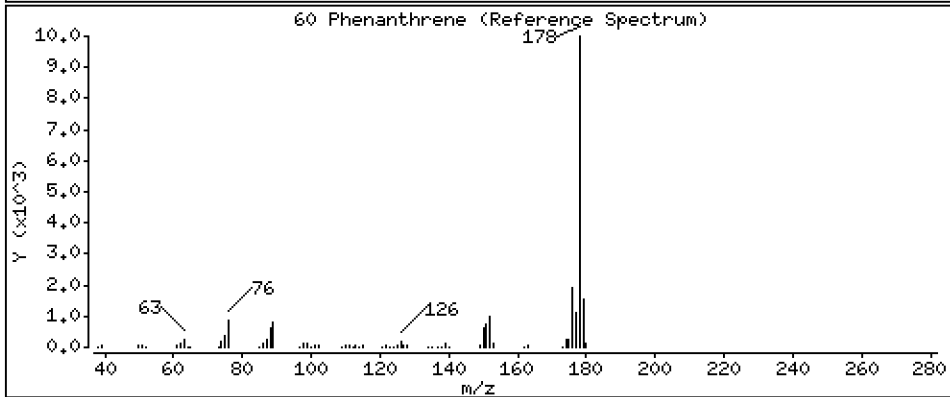
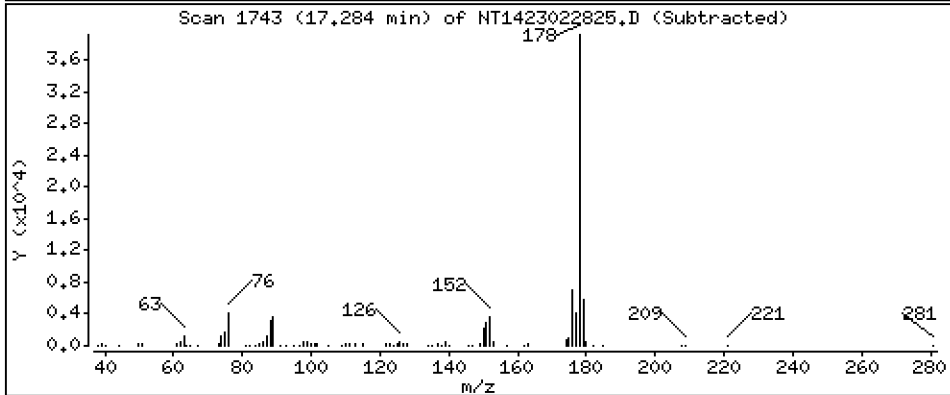
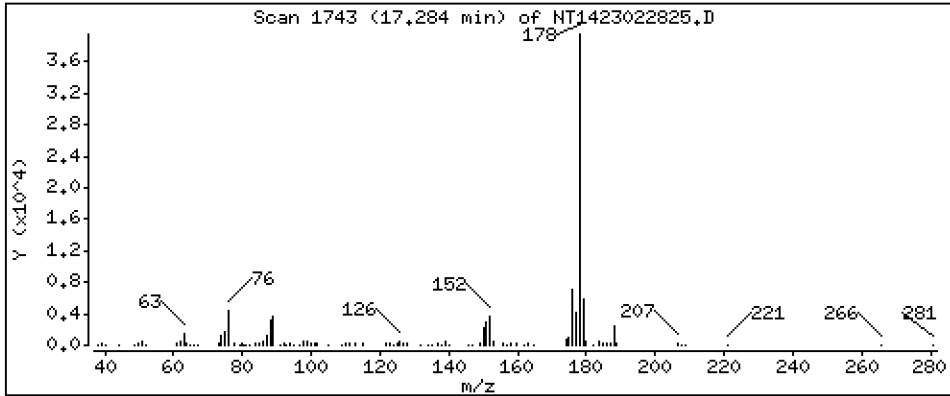
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 0,5125 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

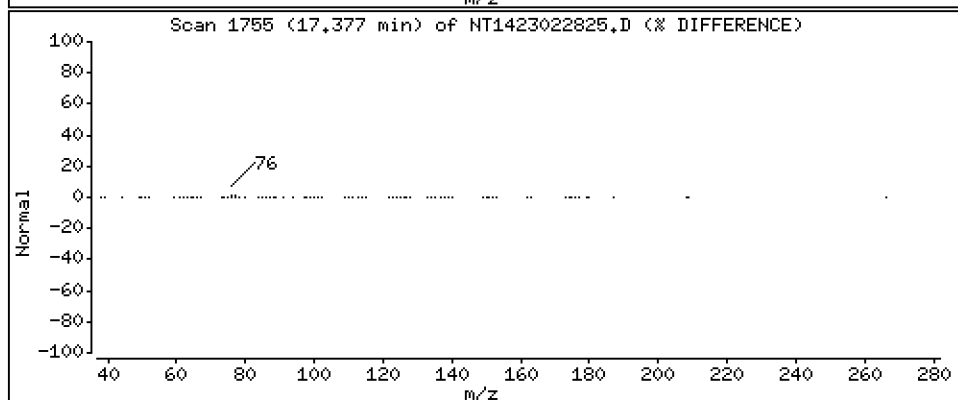
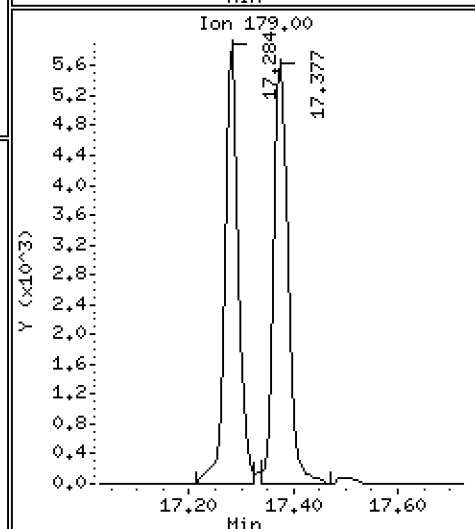
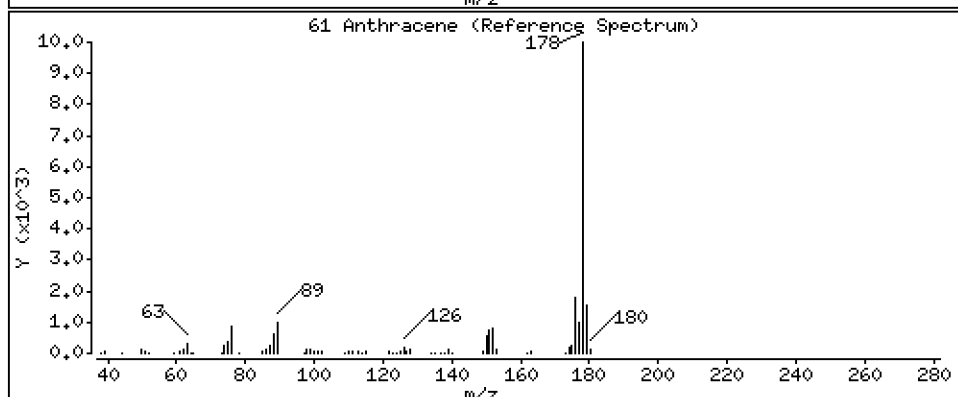
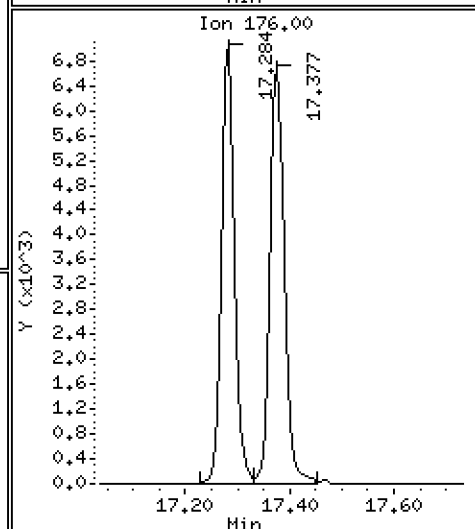
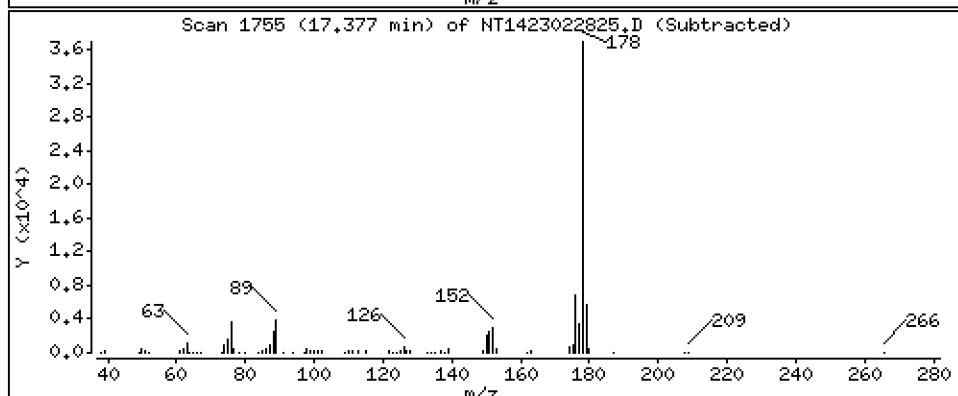
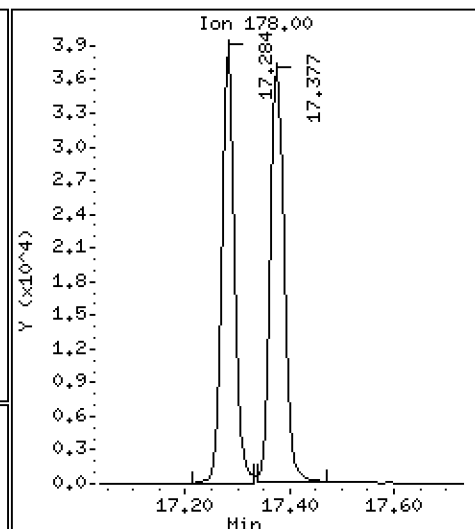
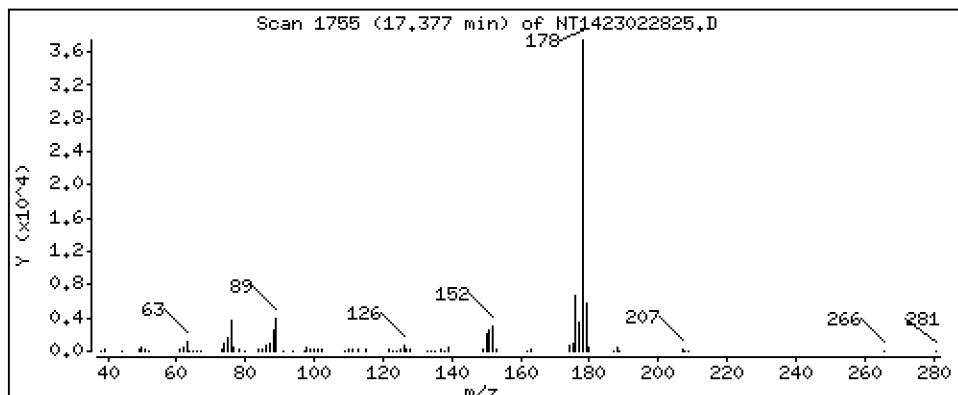
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 0,5189 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

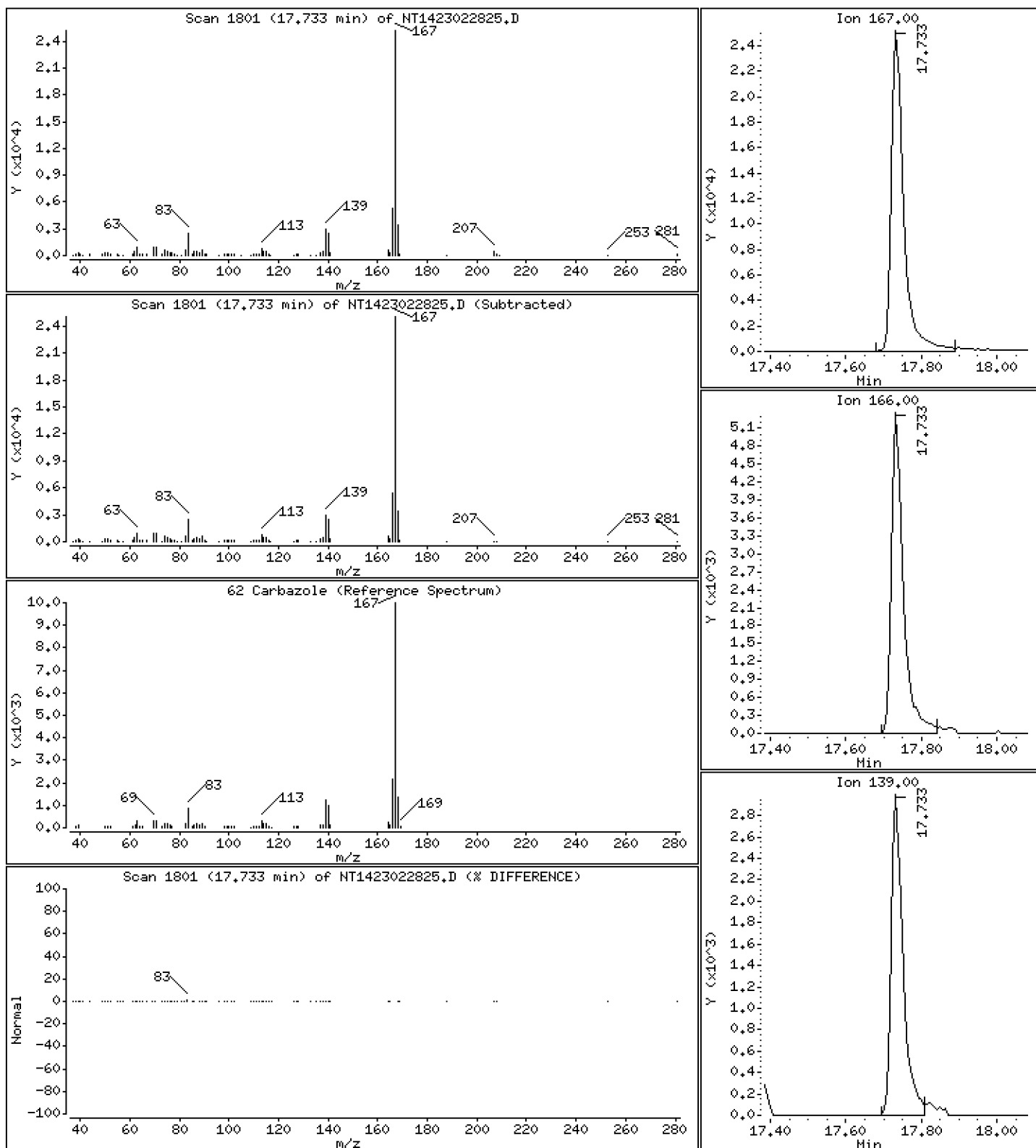
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 0,4950 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

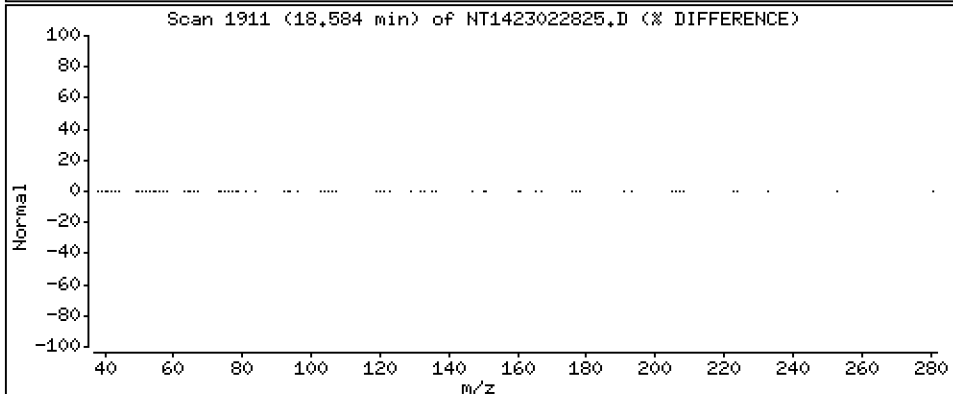
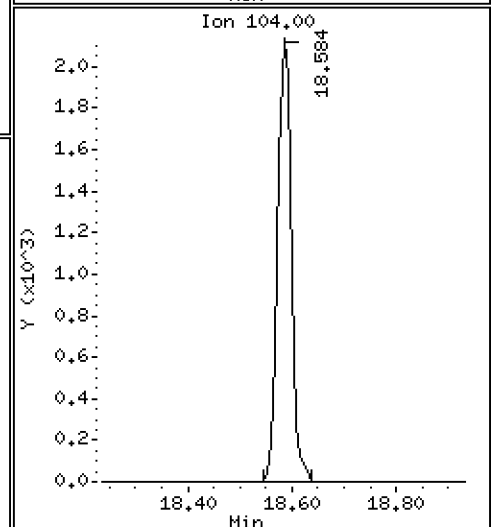
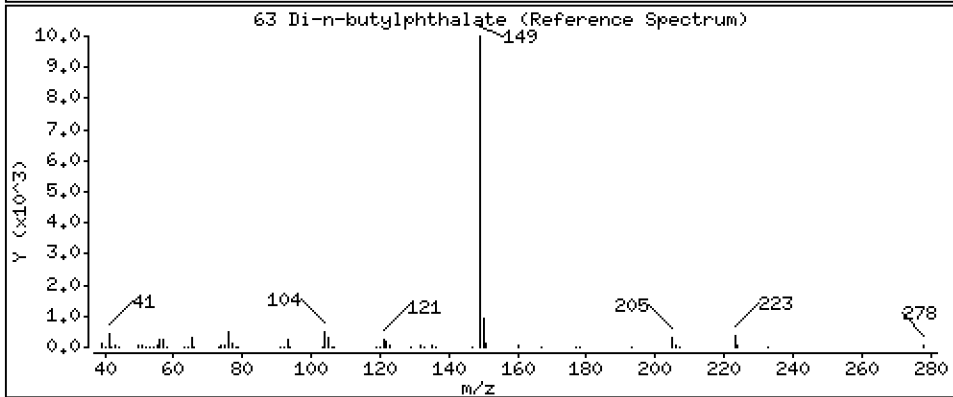
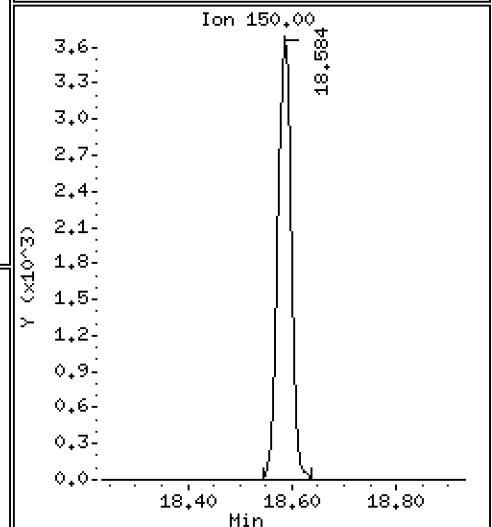
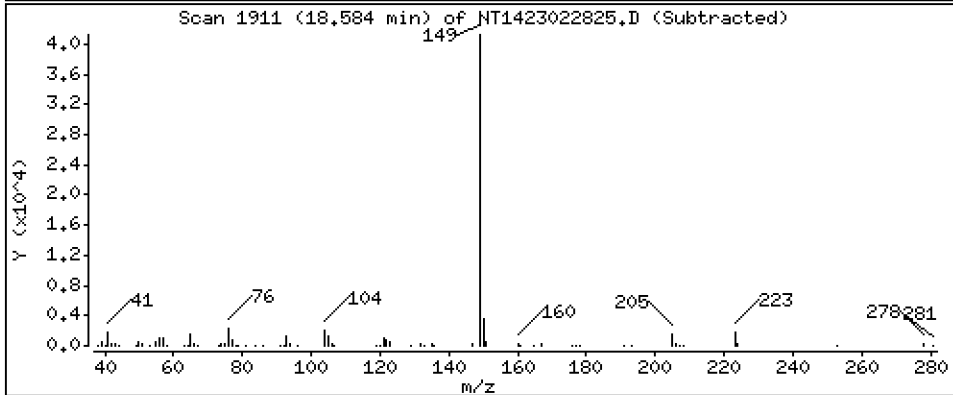
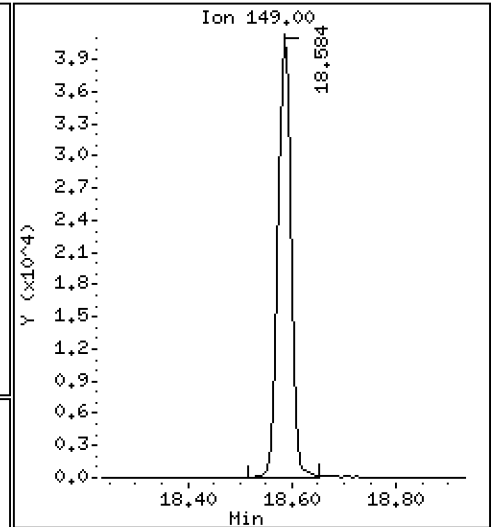
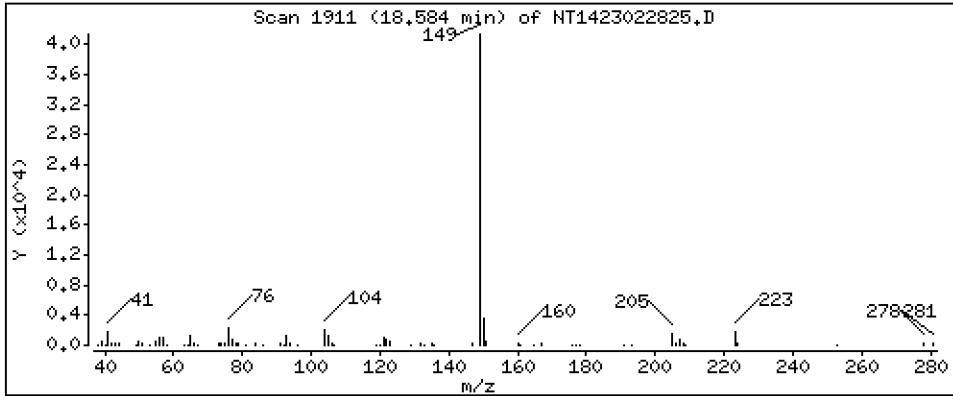
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 0,4784 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

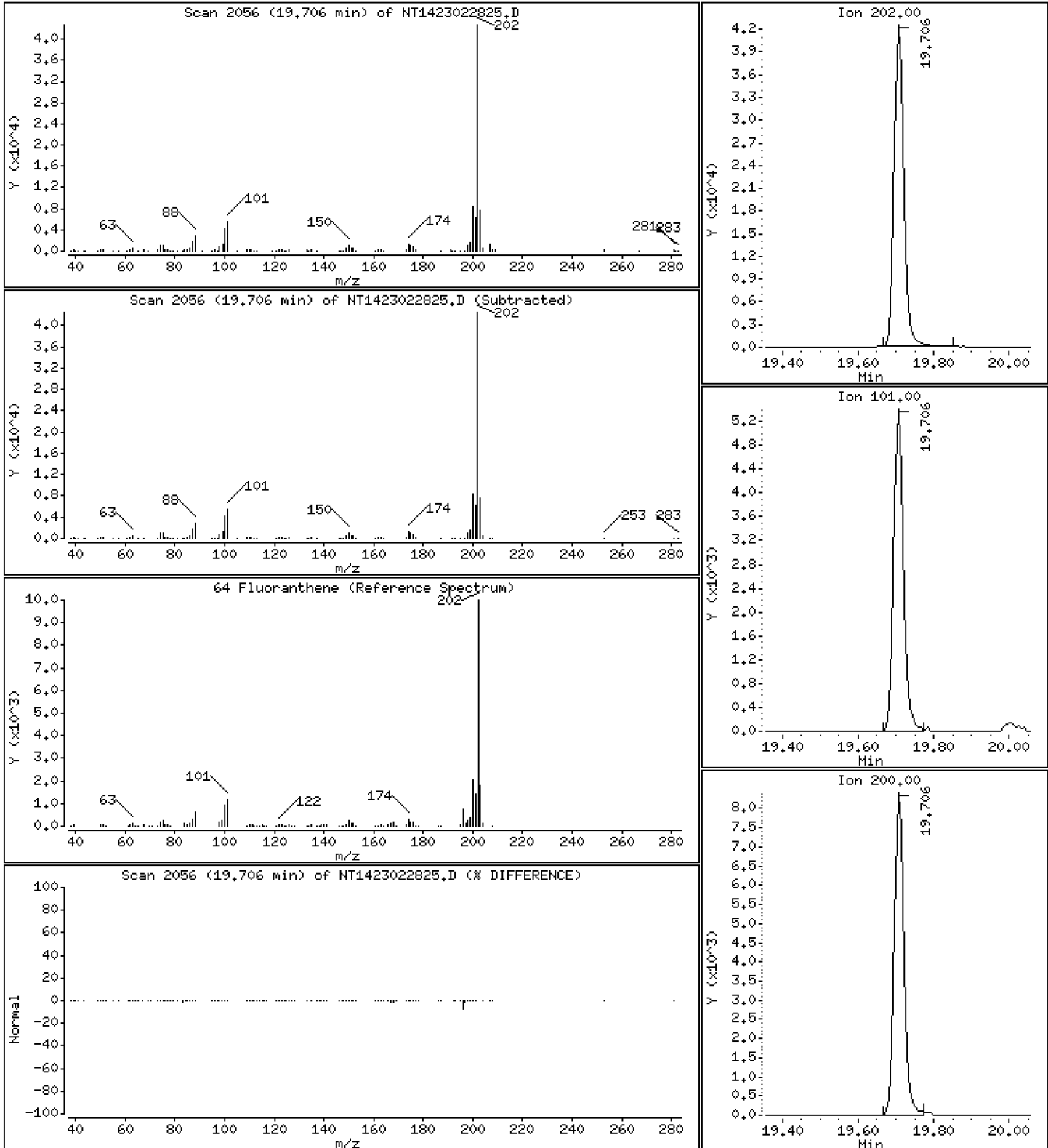
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 0,5129 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

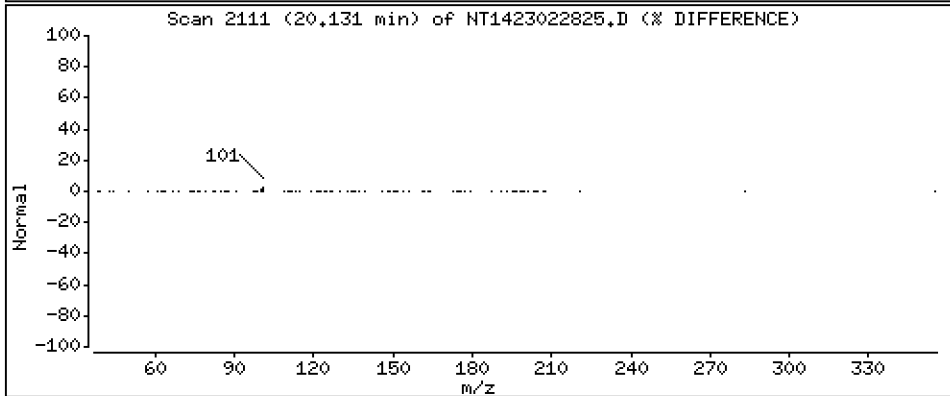
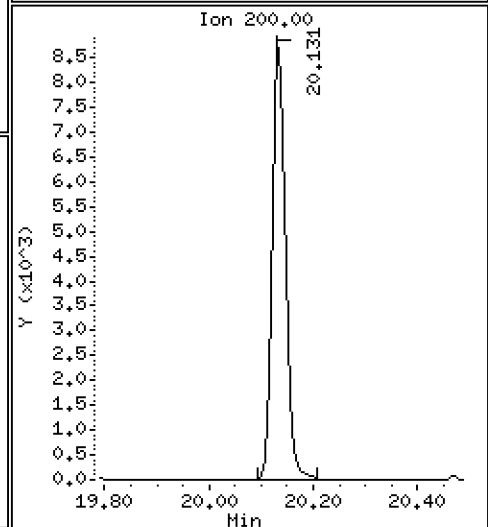
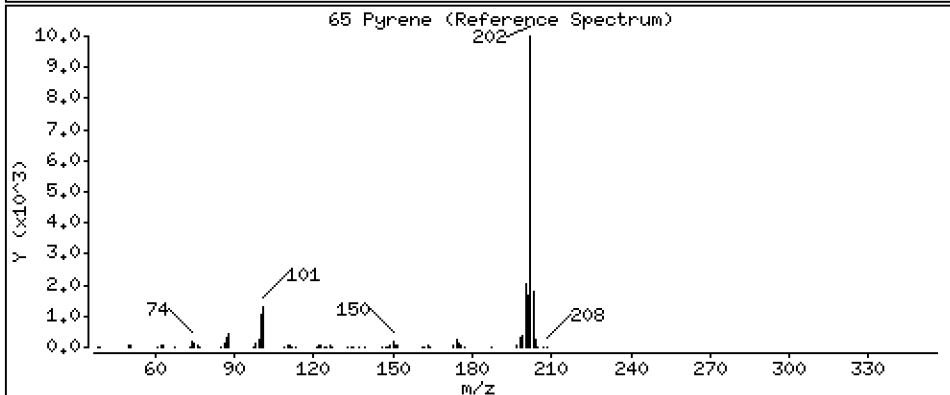
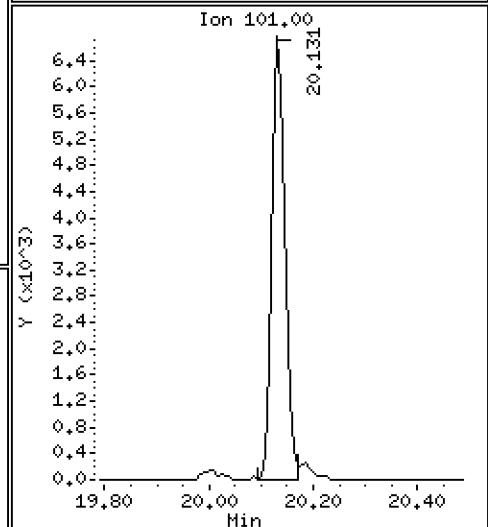
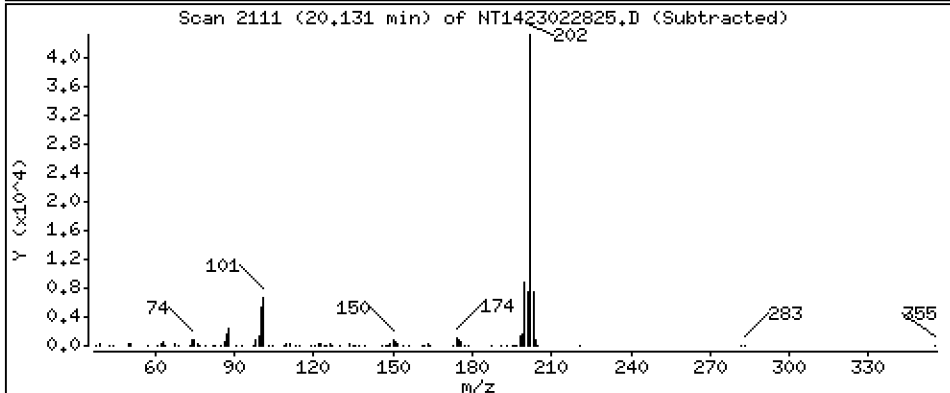
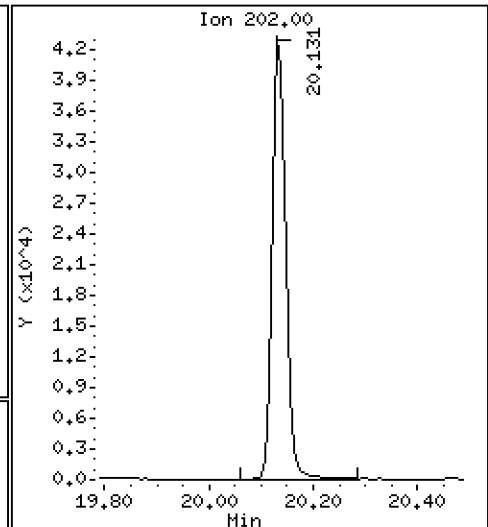
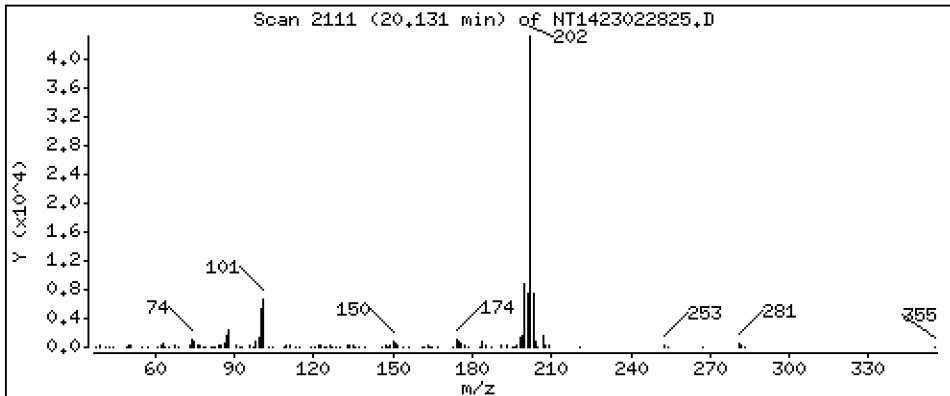
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 0,5119 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

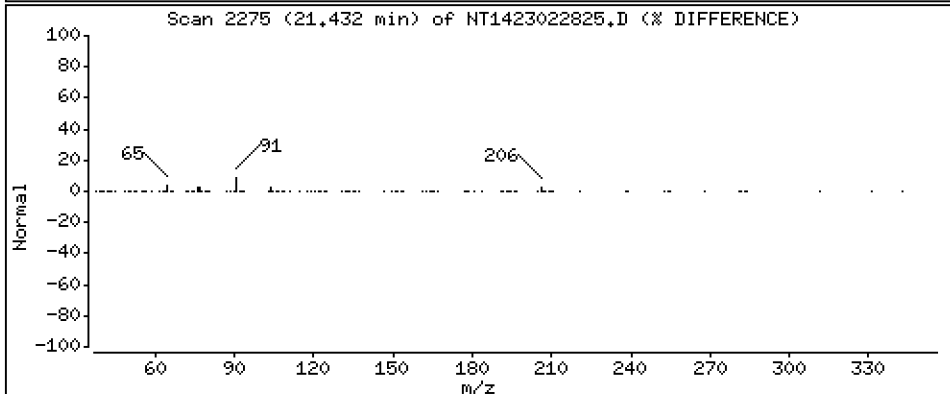
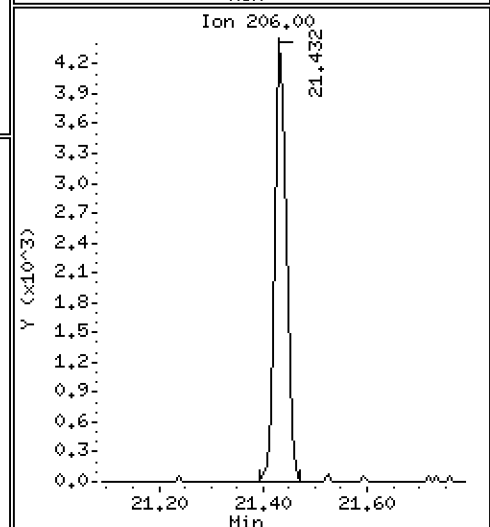
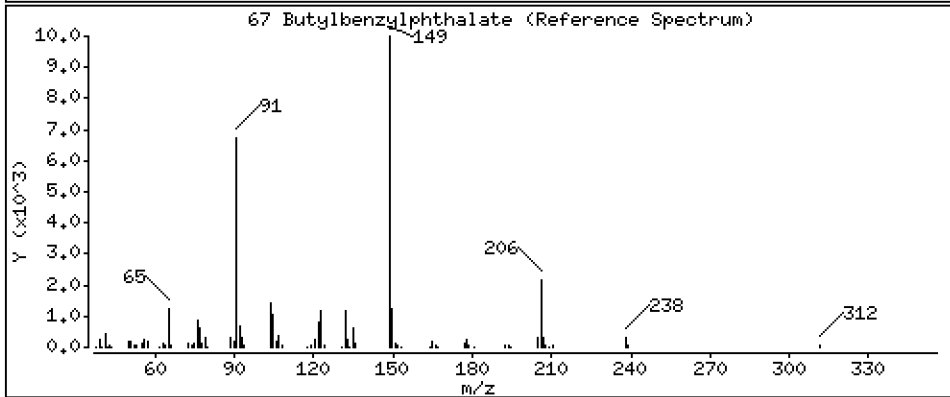
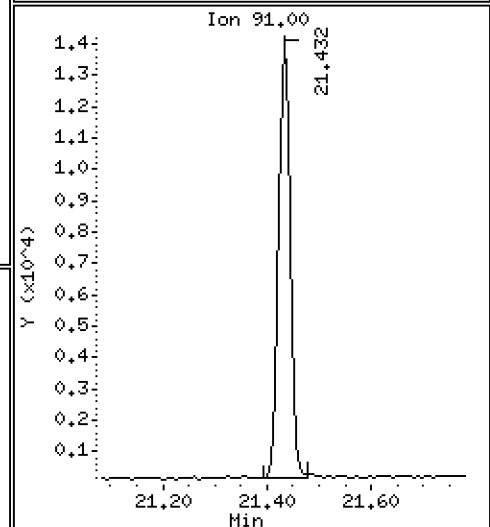
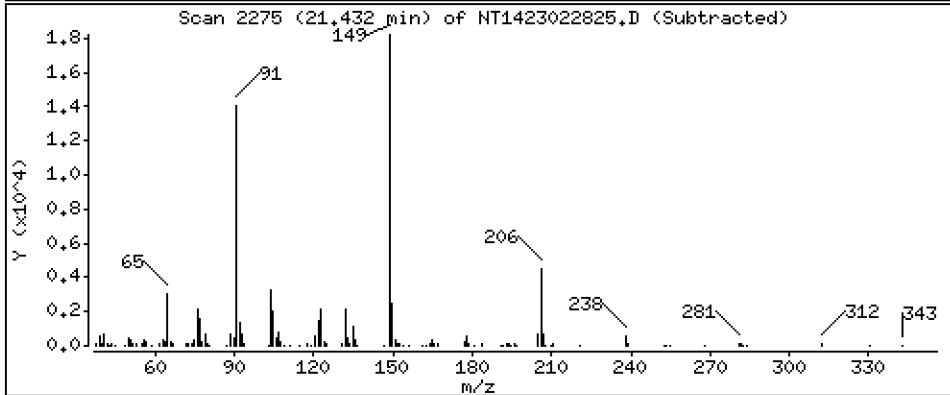
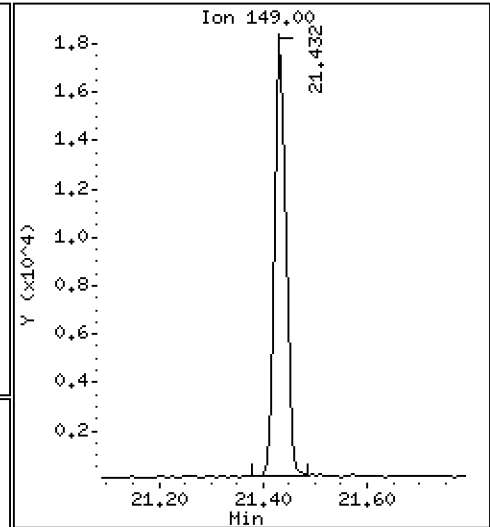
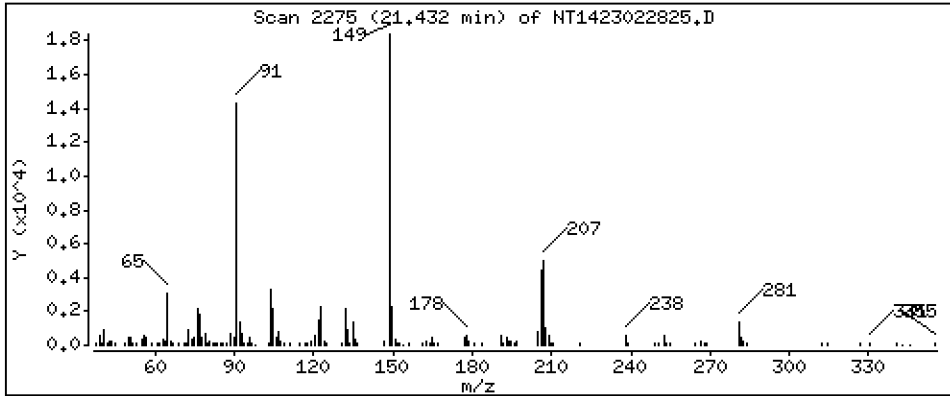
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 0,5119 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

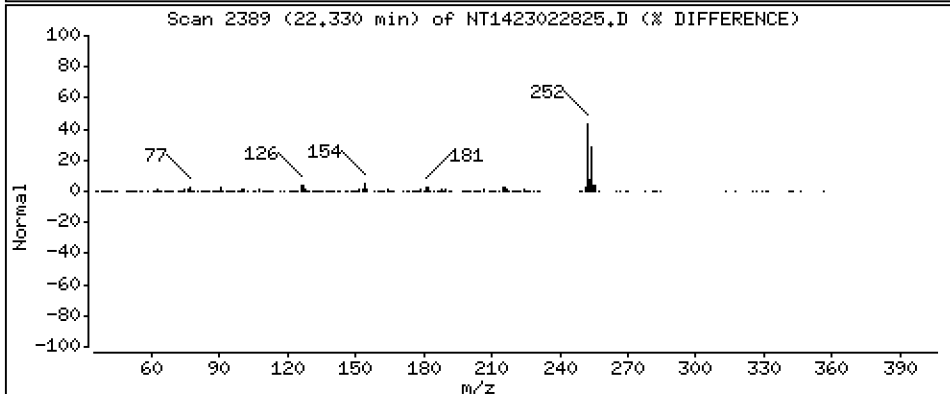
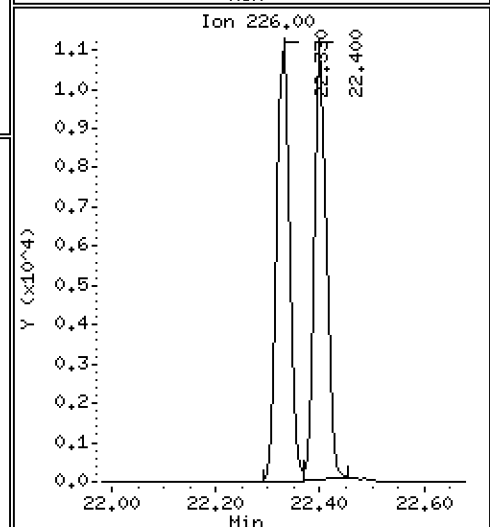
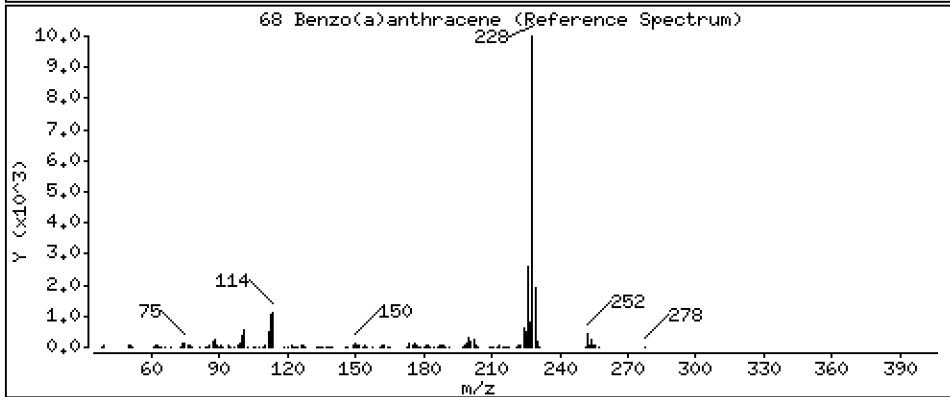
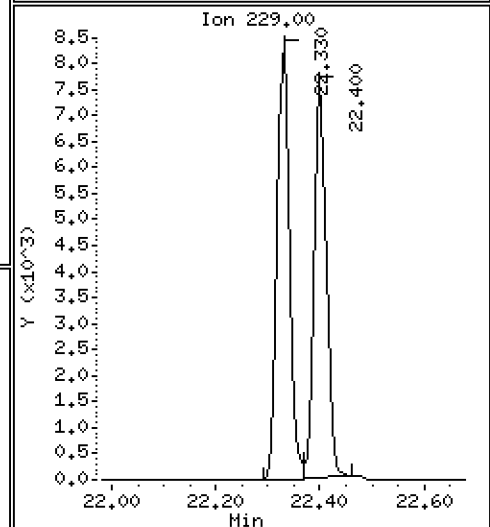
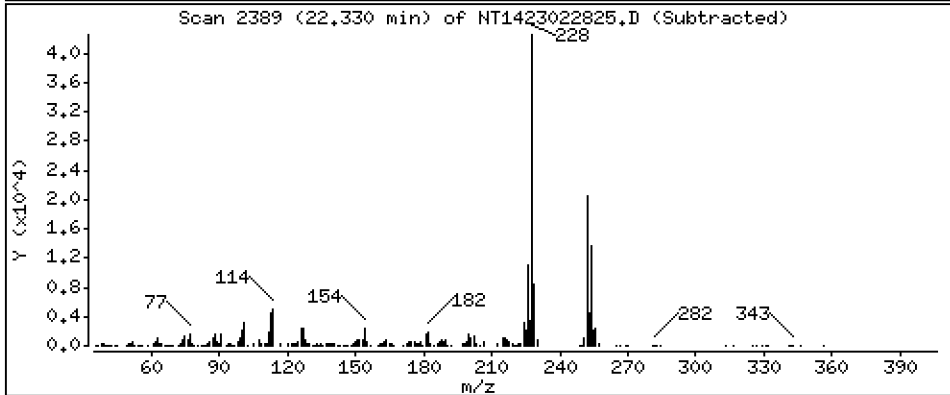
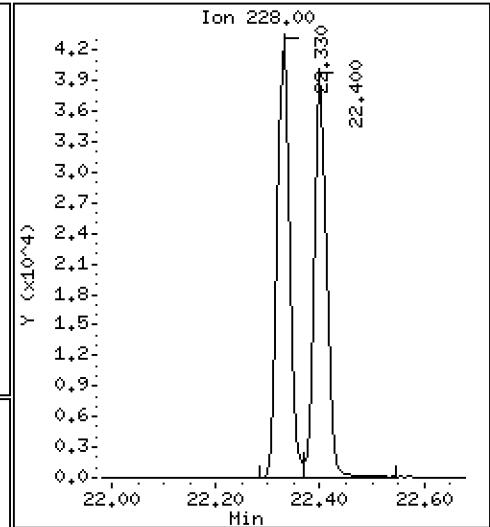
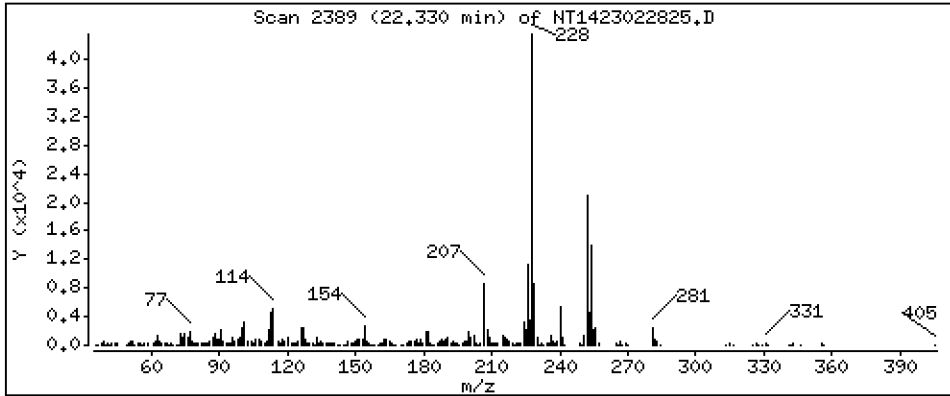
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 0,5453 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

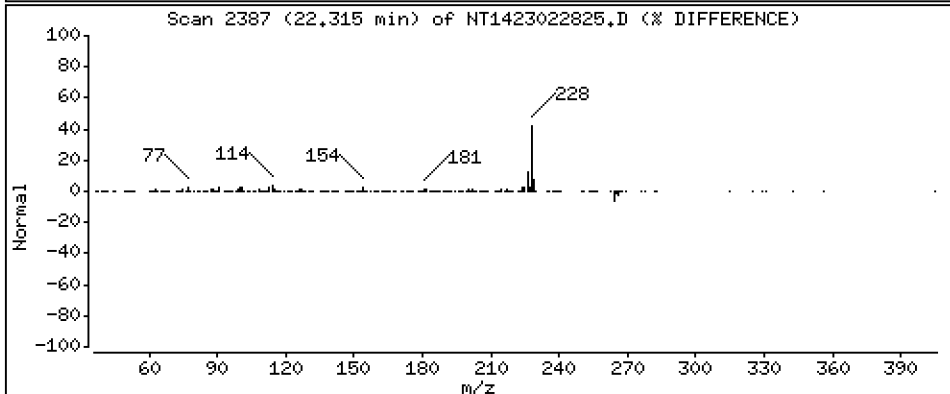
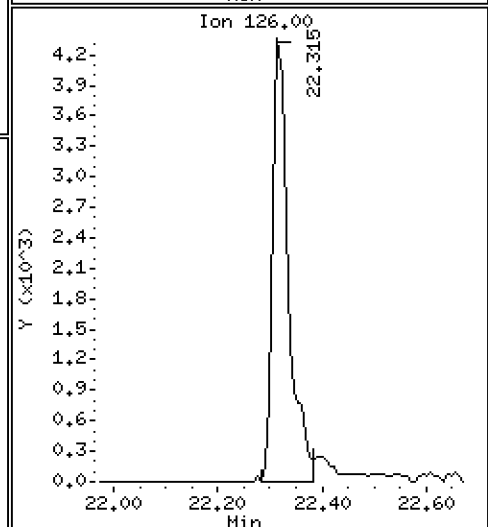
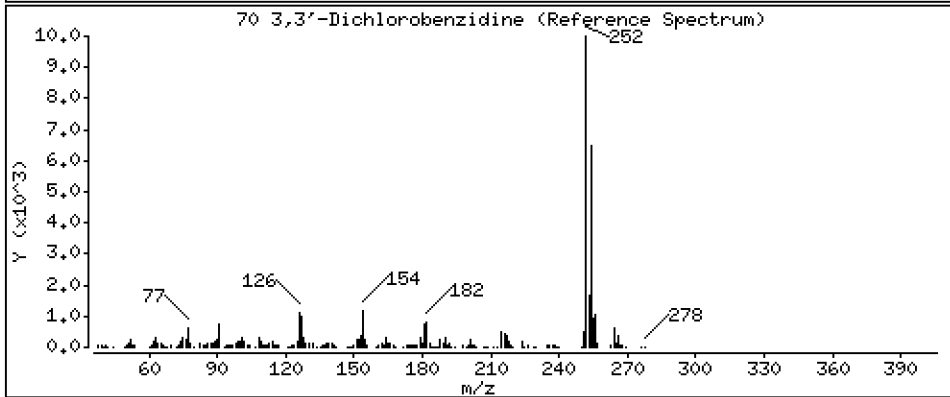
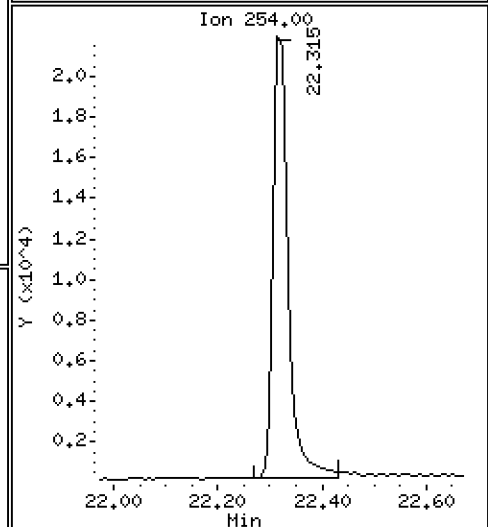
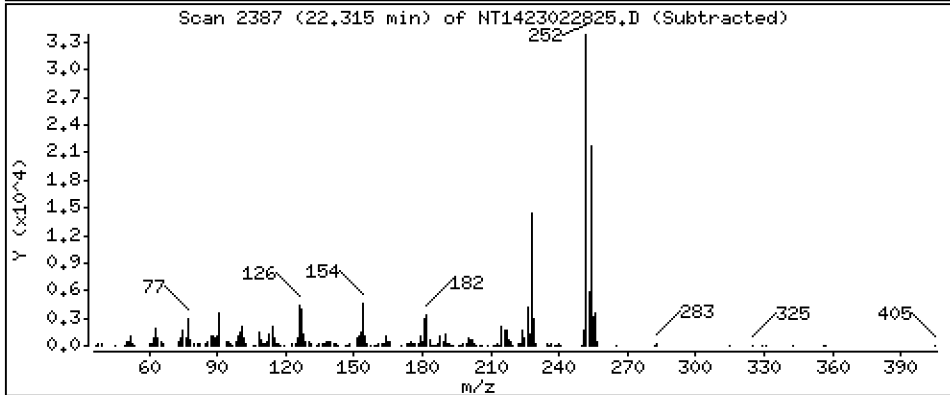
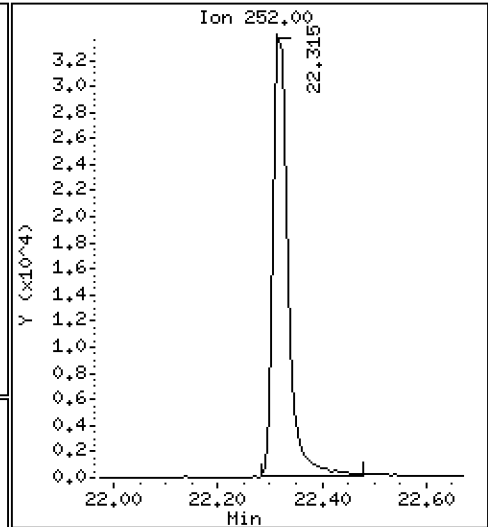
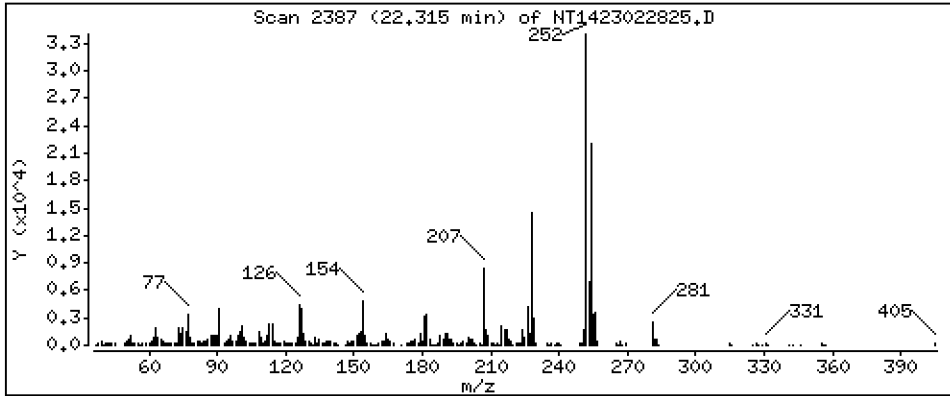
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

70 3,3'-Dichlorobenzidine

Concentration: 1,854 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

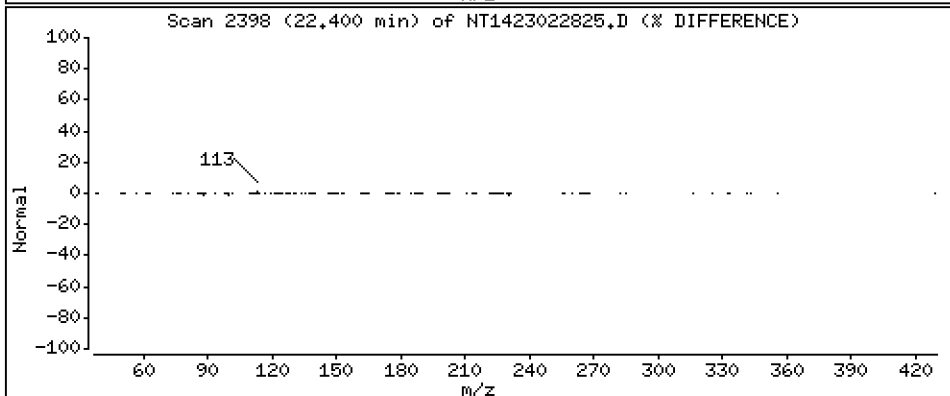
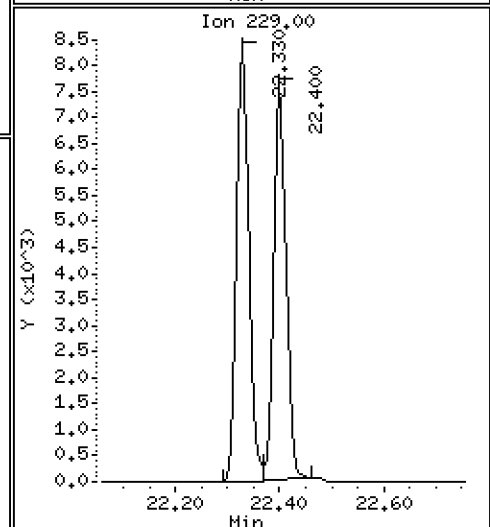
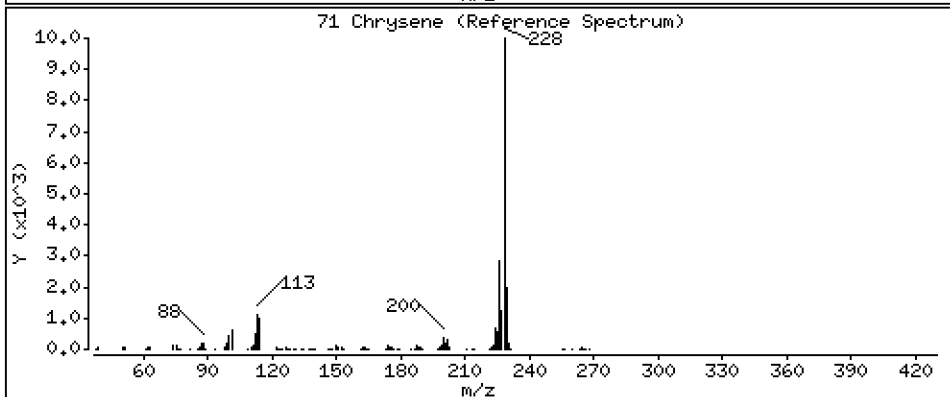
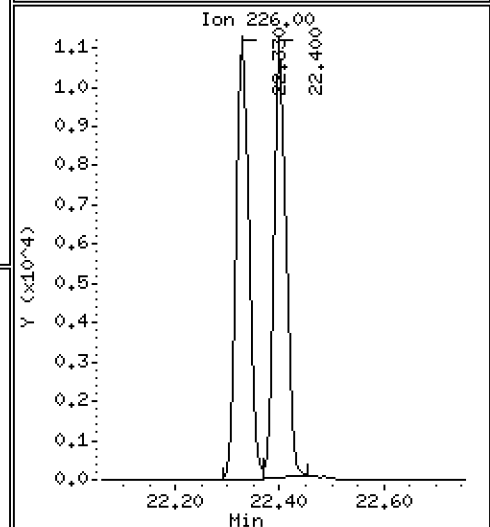
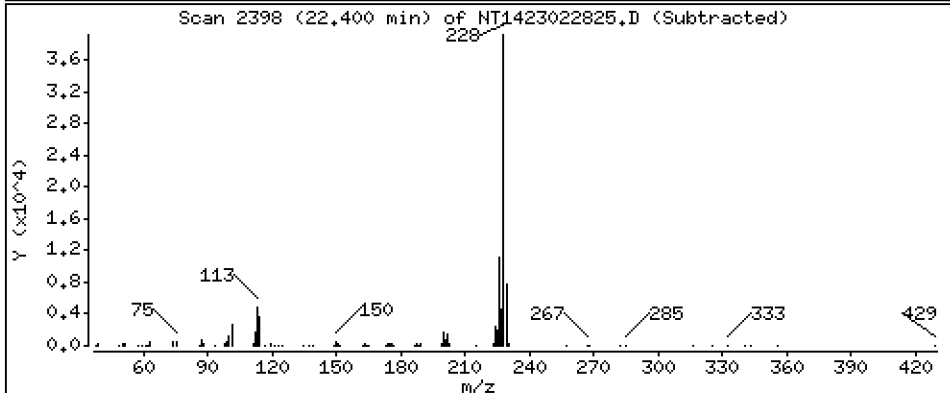
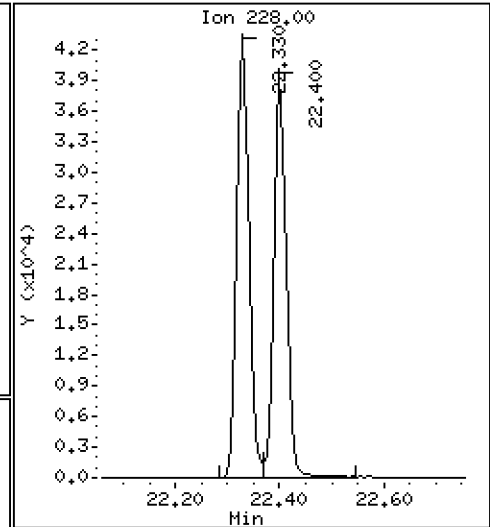
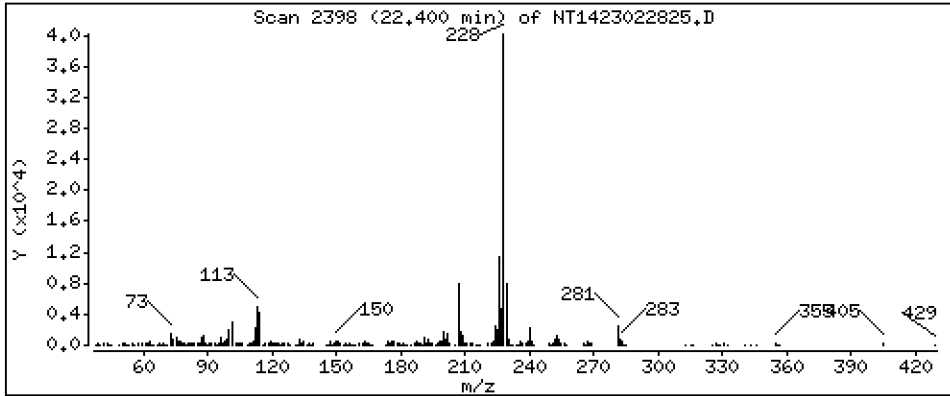
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 0,5326 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

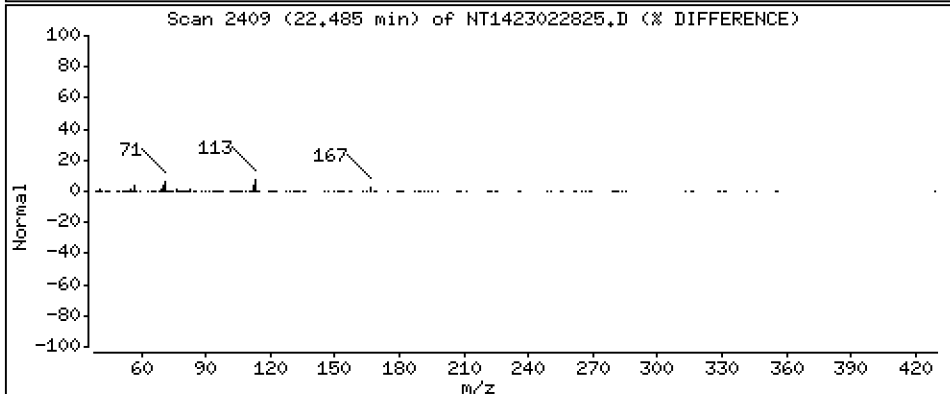
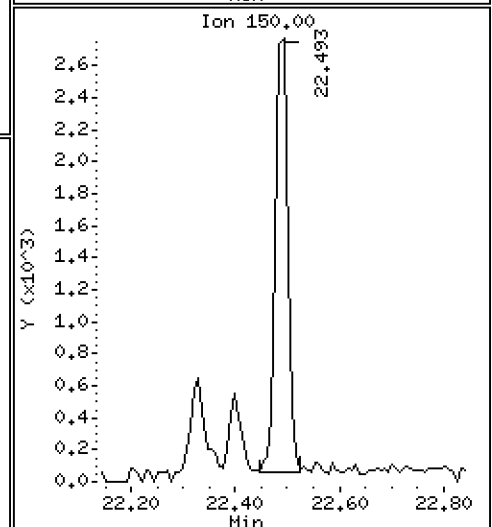
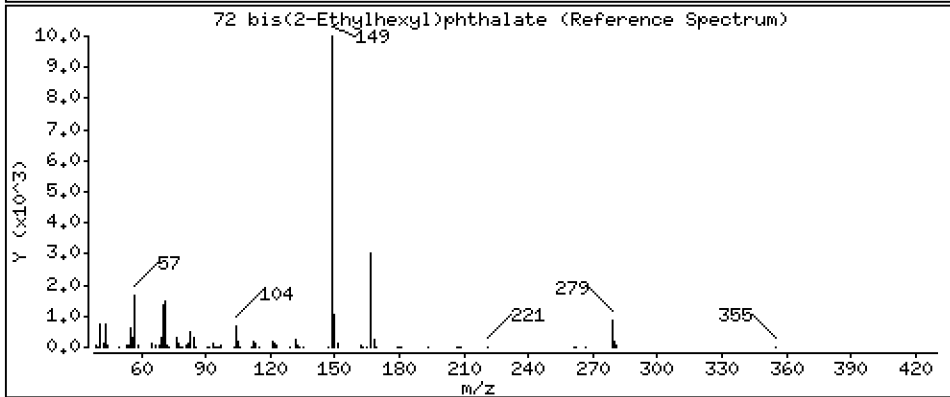
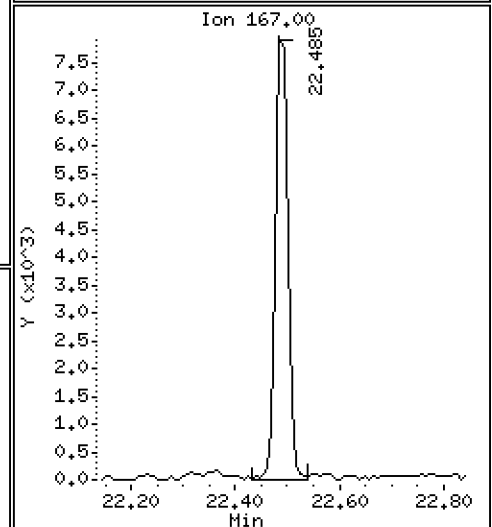
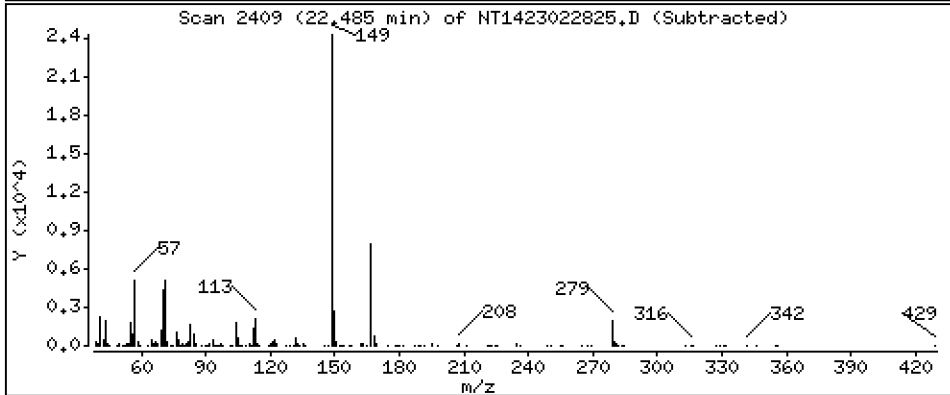
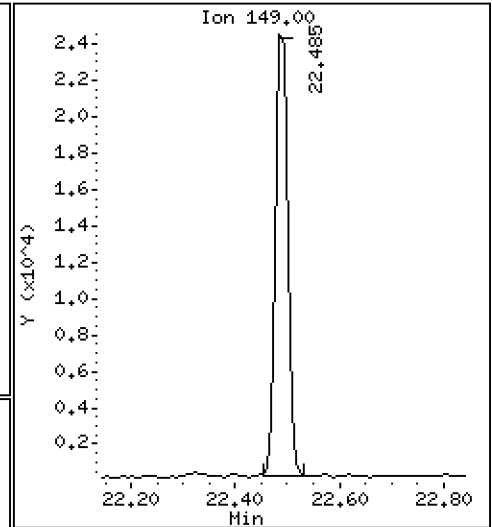
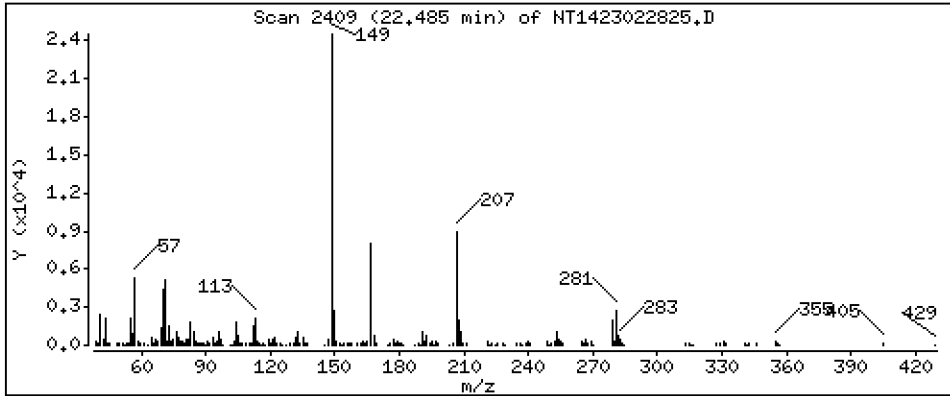
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 0,4540 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

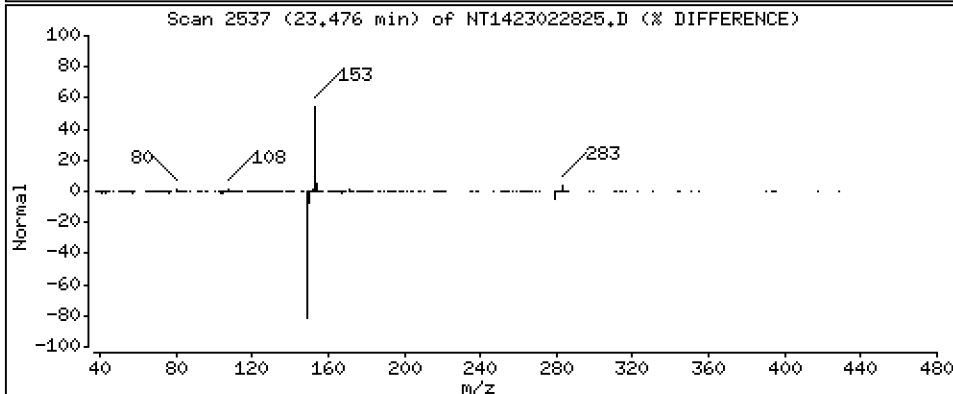
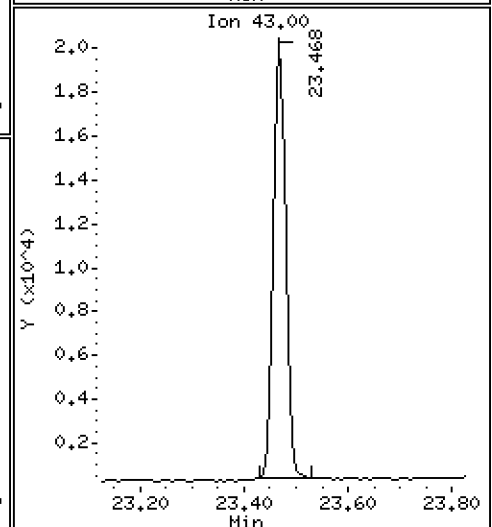
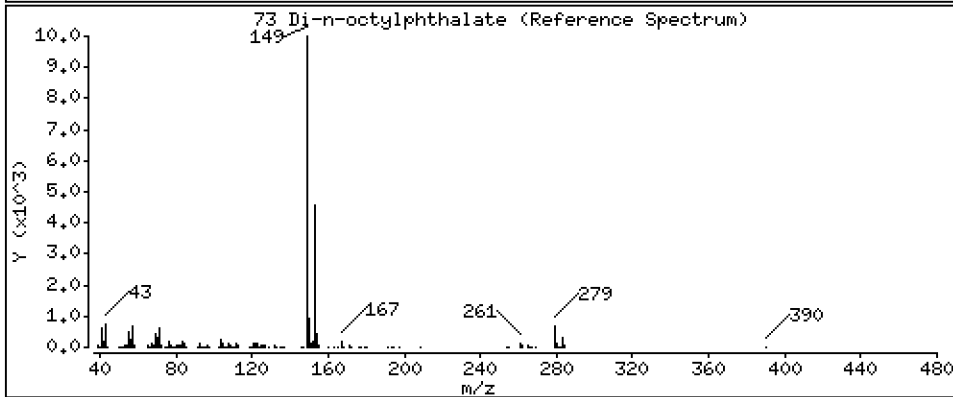
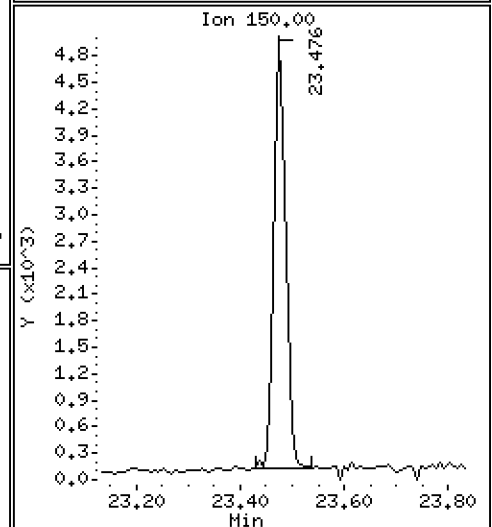
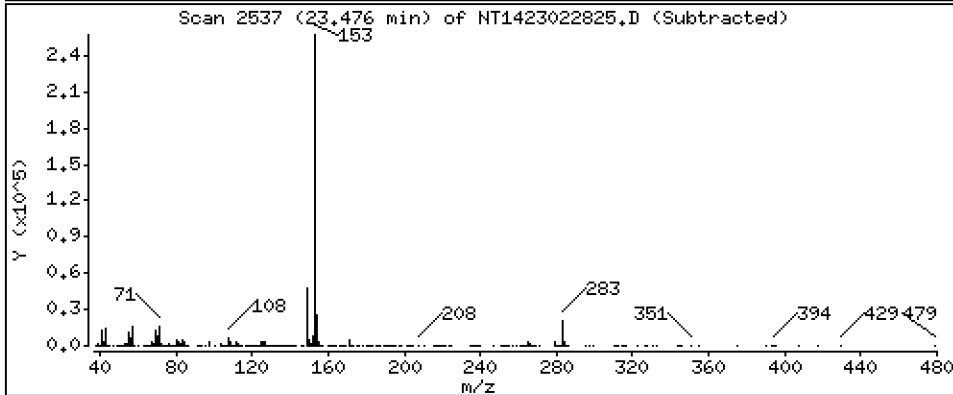
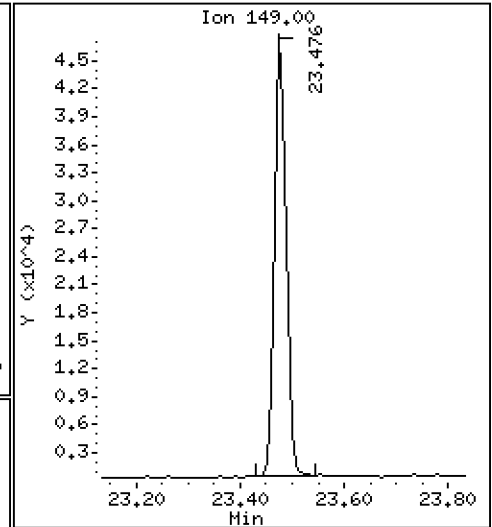
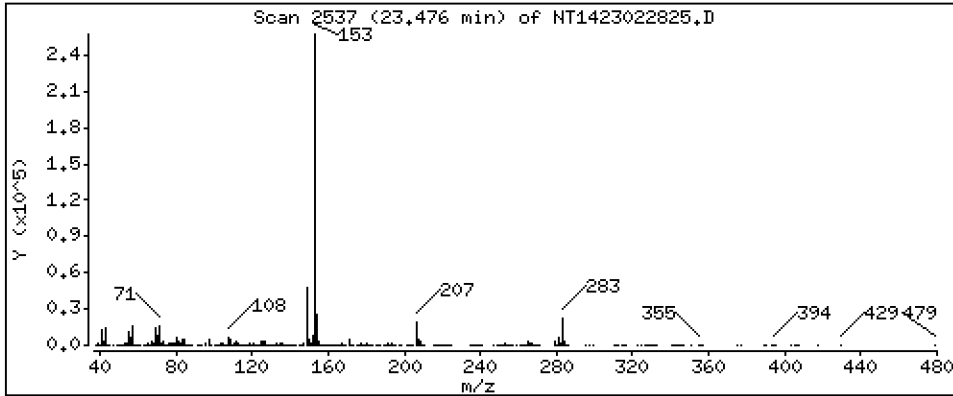
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 0,5004 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

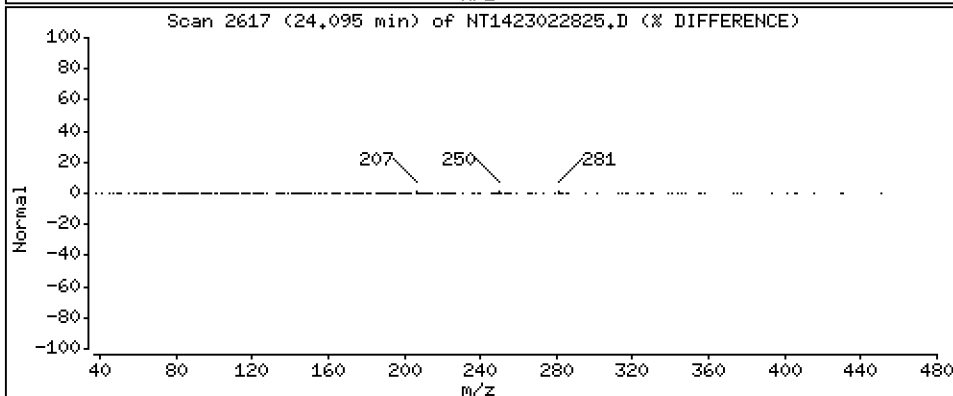
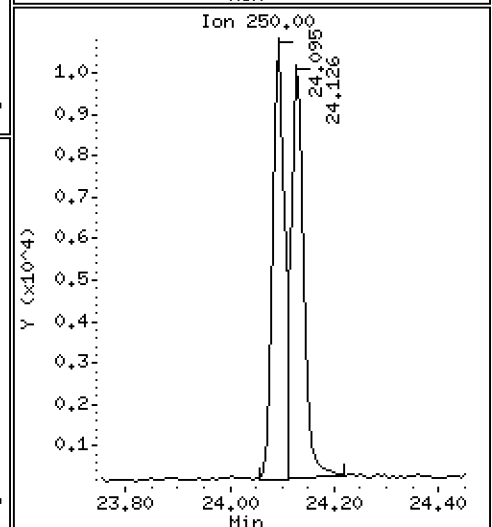
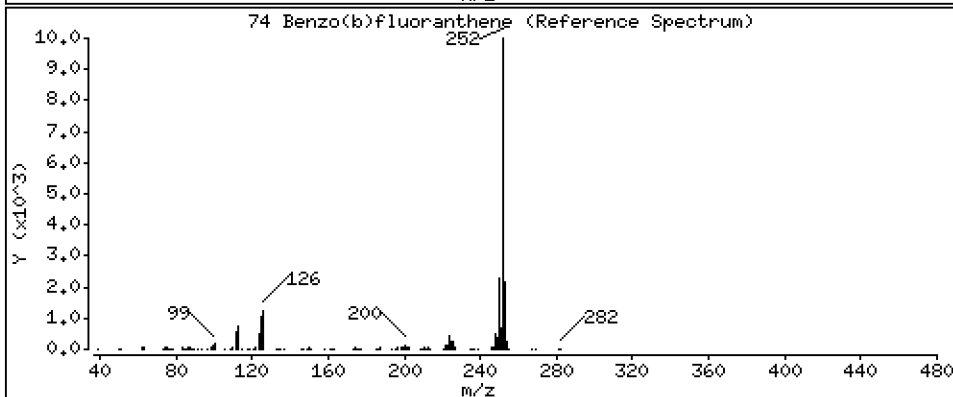
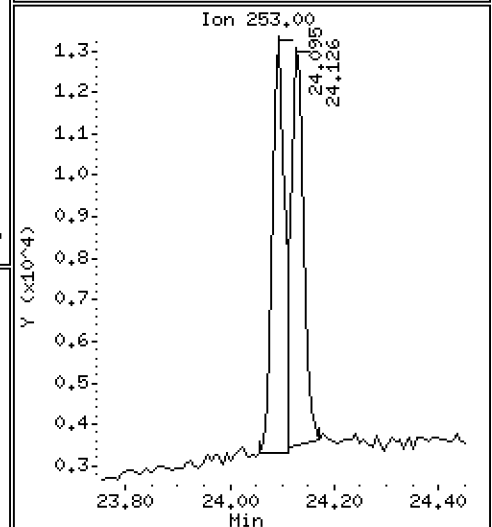
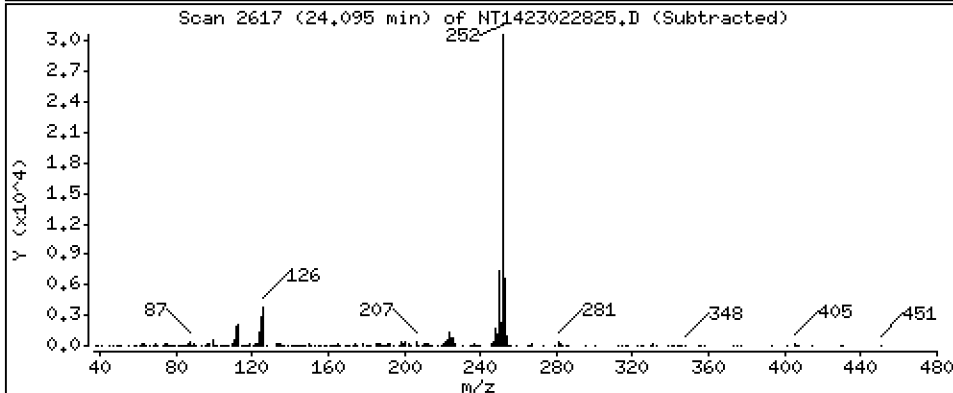
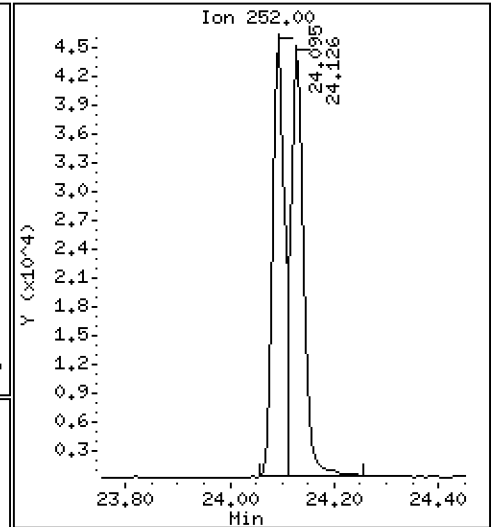
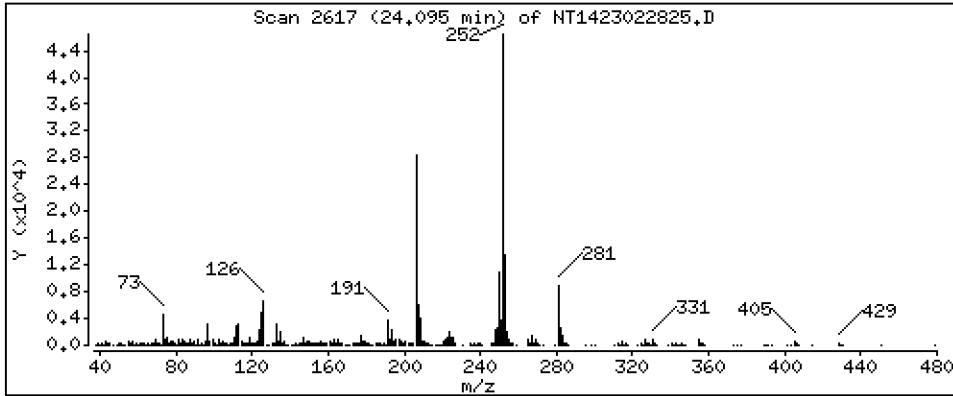
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 0,5153 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

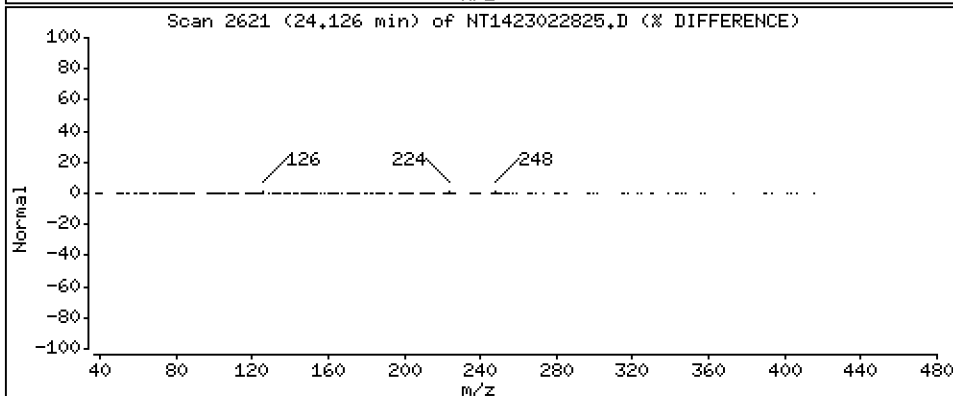
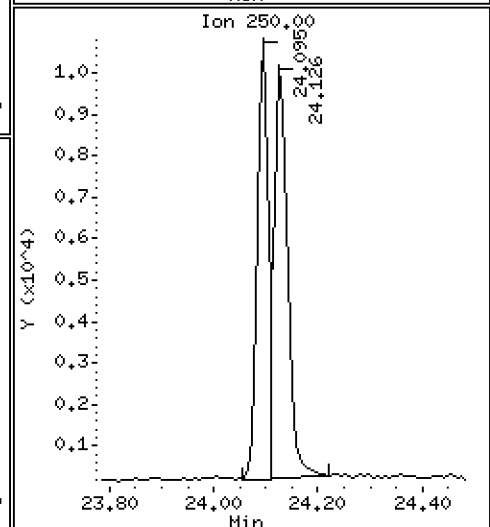
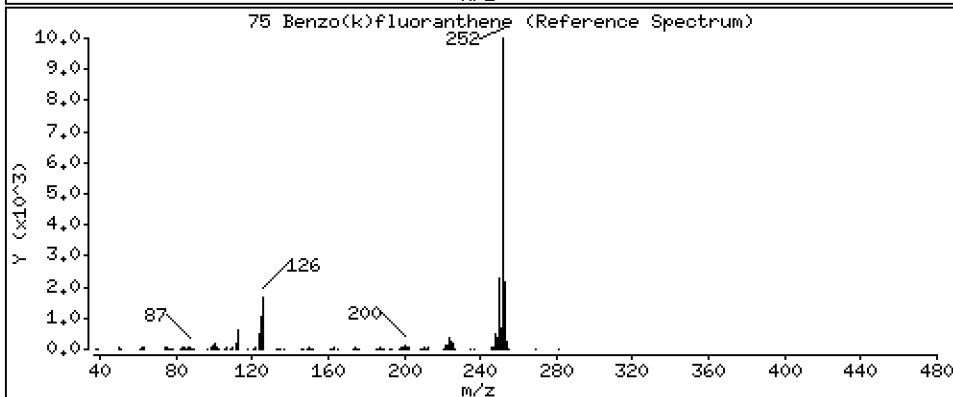
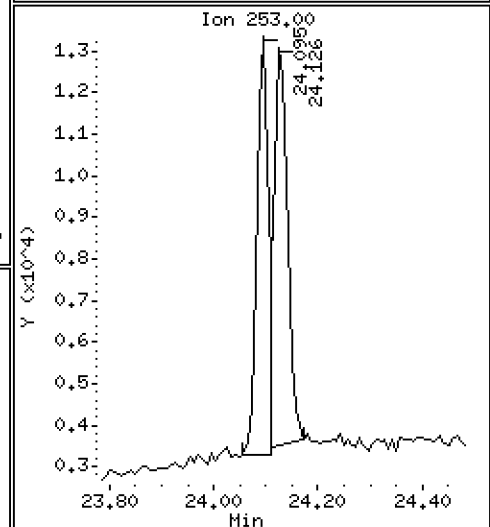
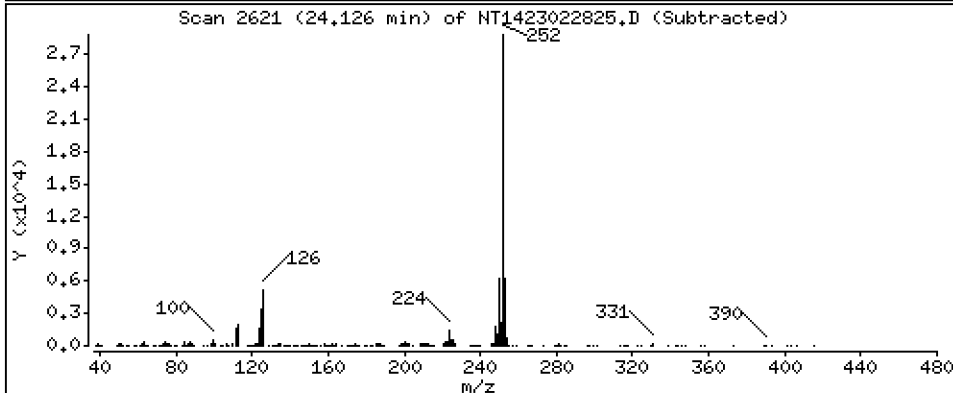
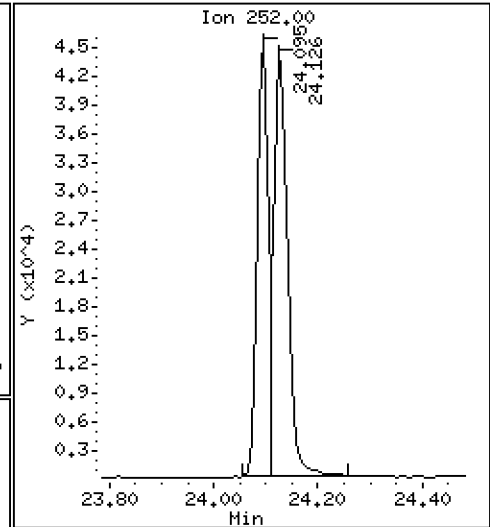
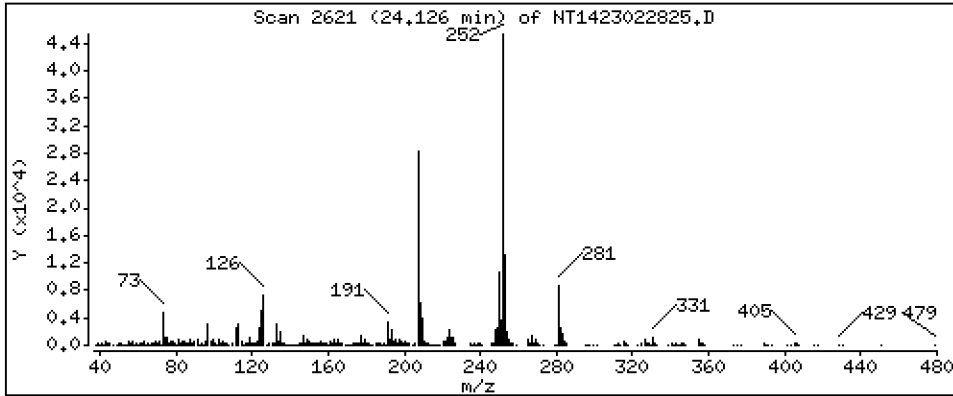
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 0,5325 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

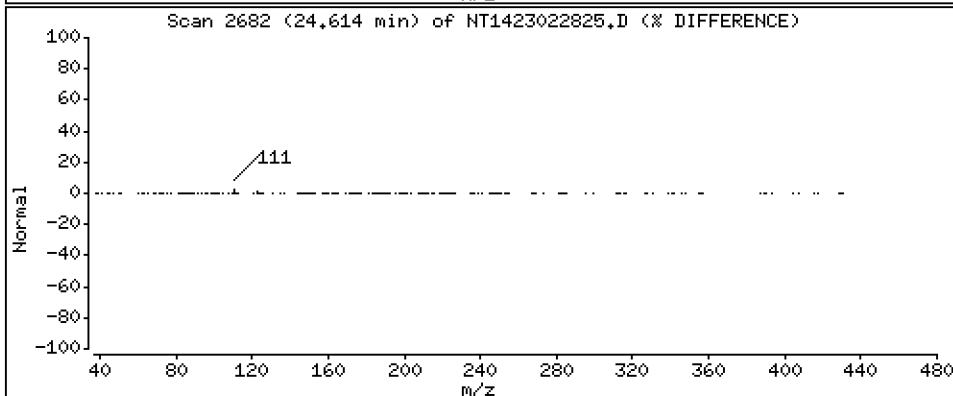
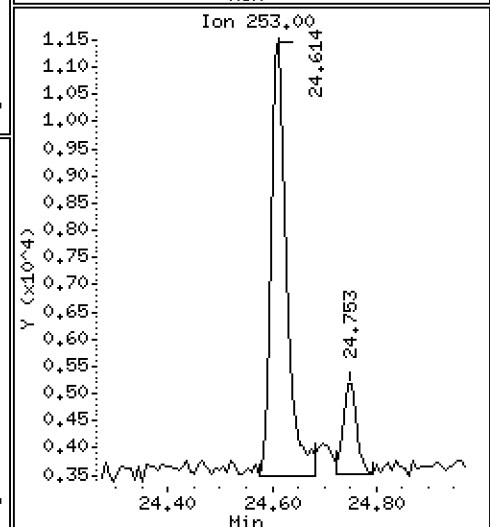
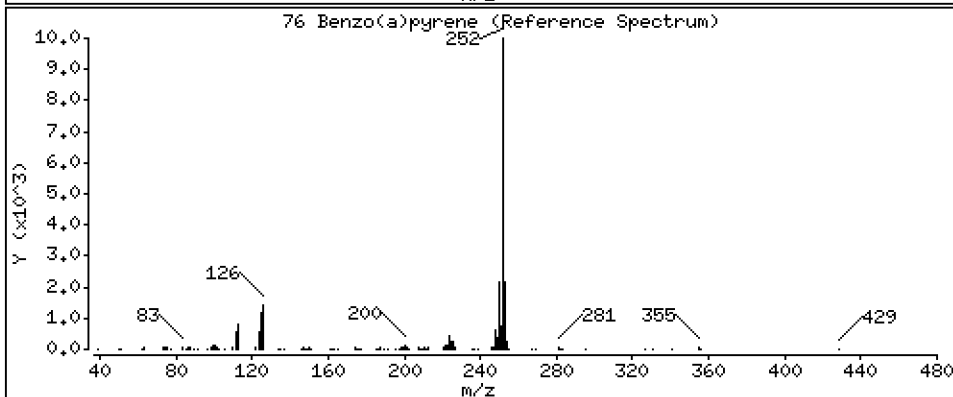
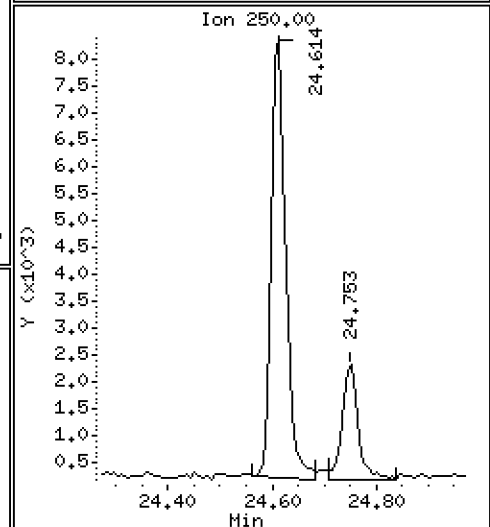
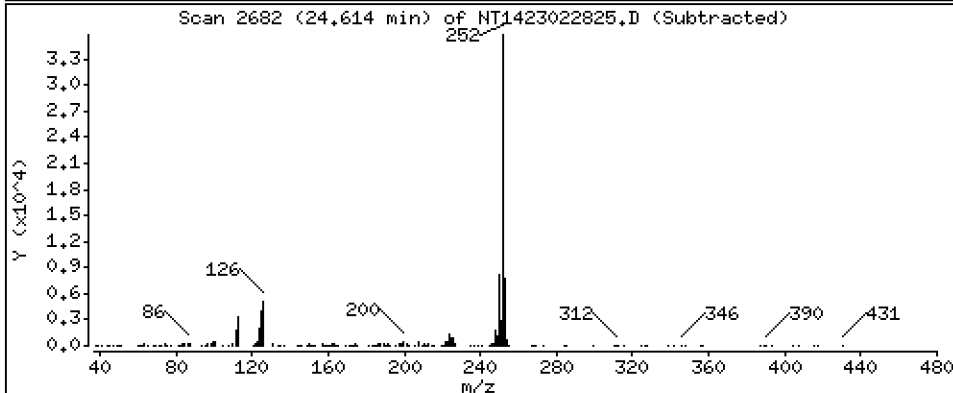
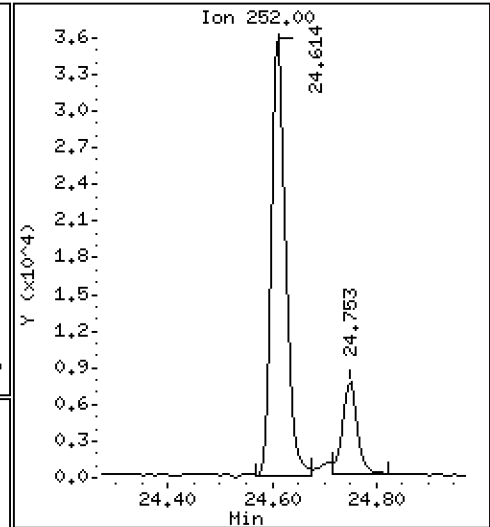
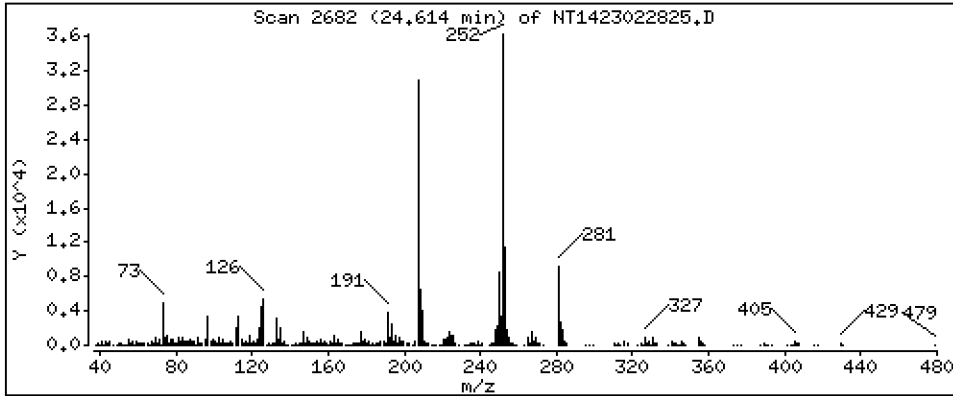
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 0,5470 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

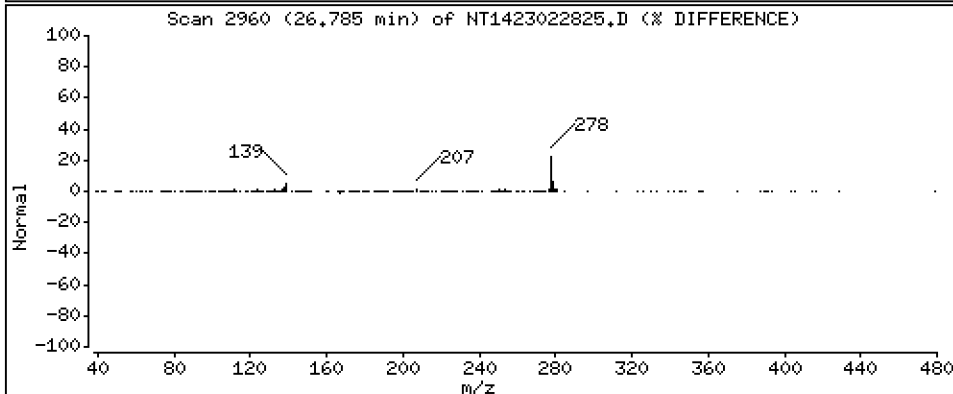
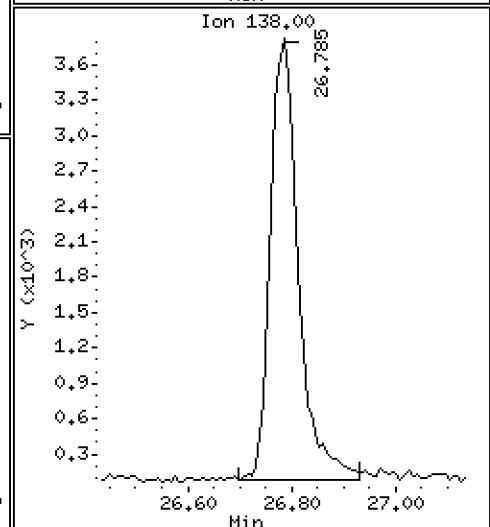
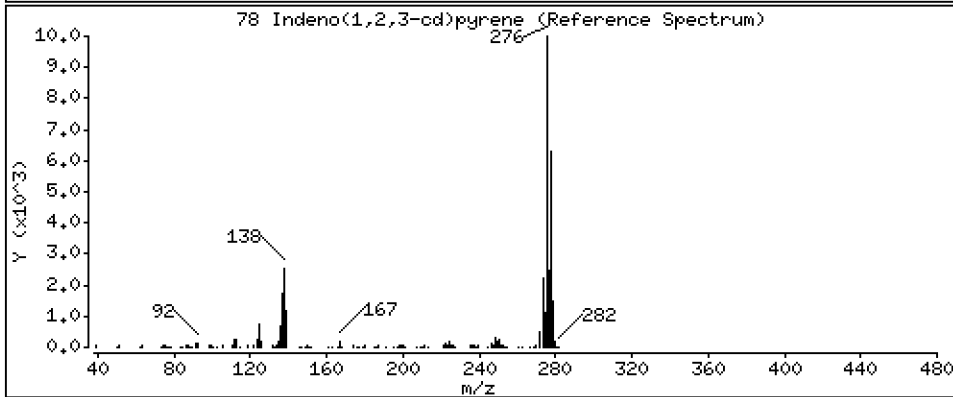
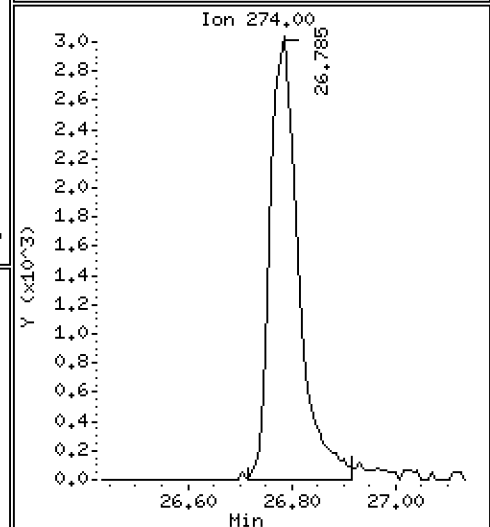
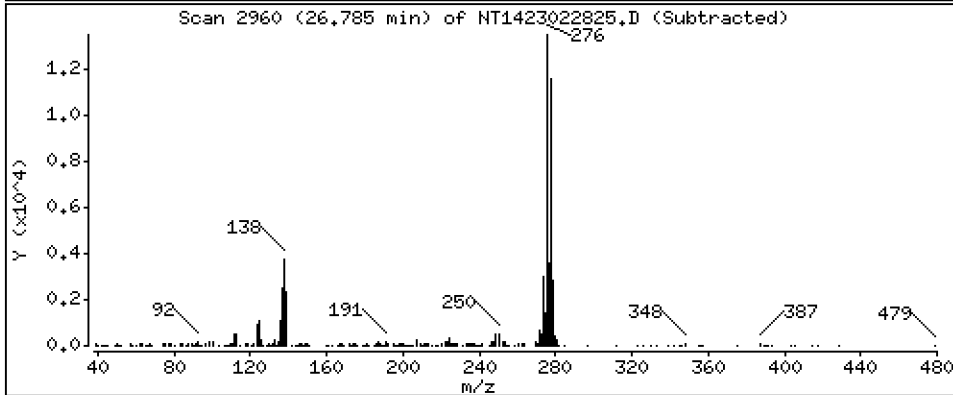
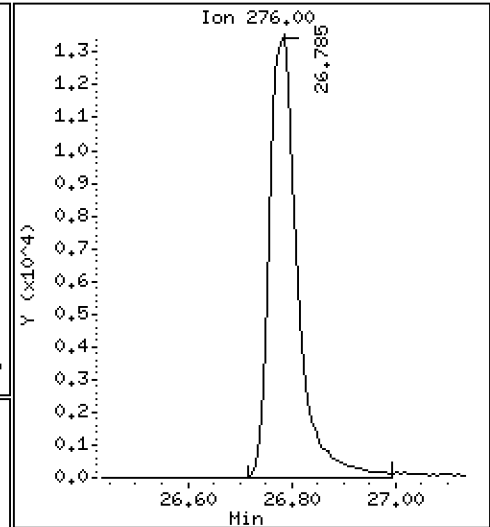
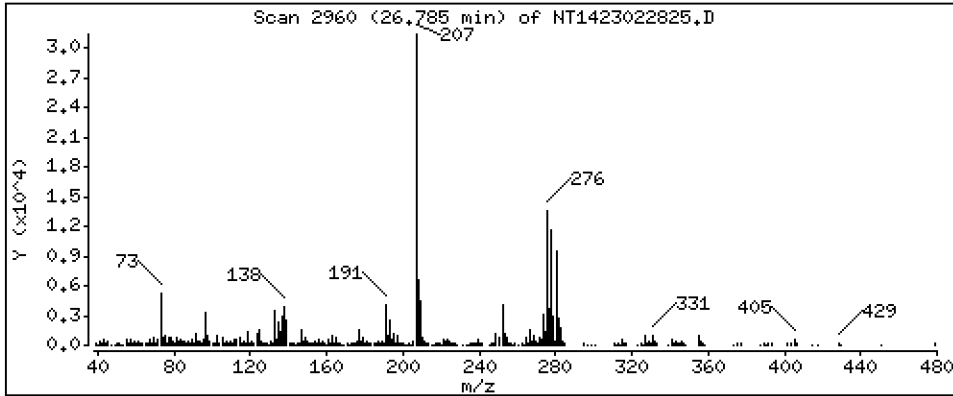
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 0,3258 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

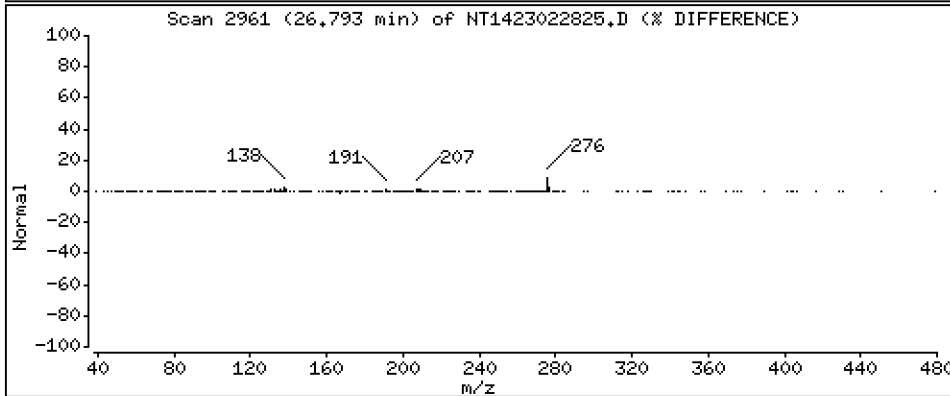
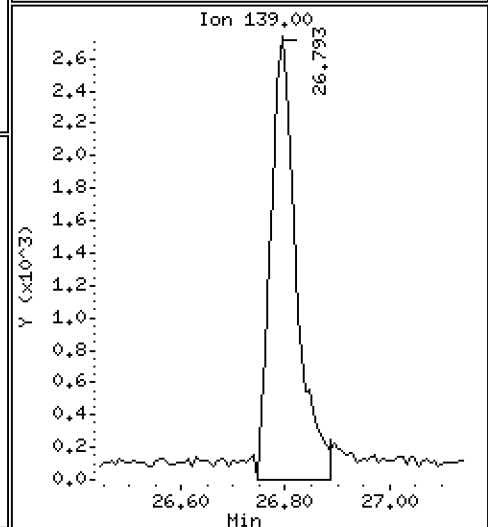
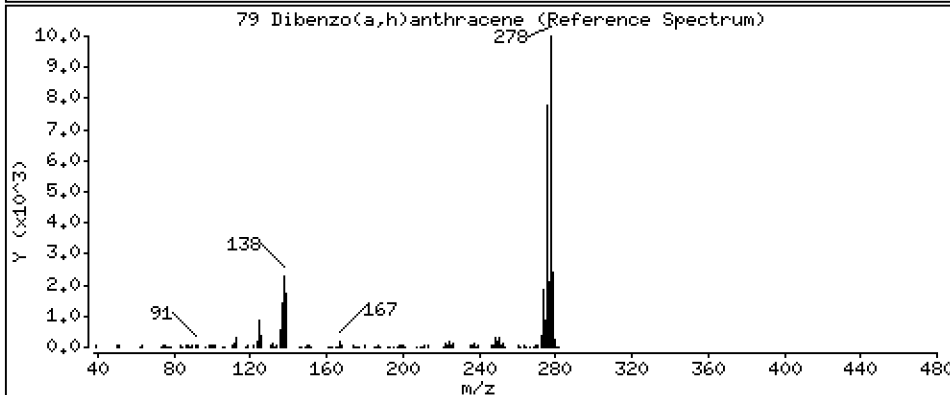
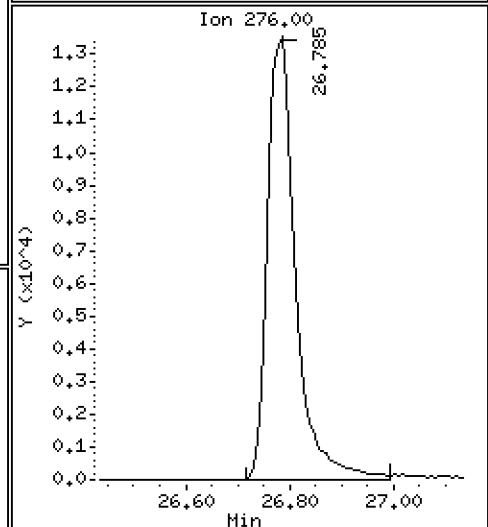
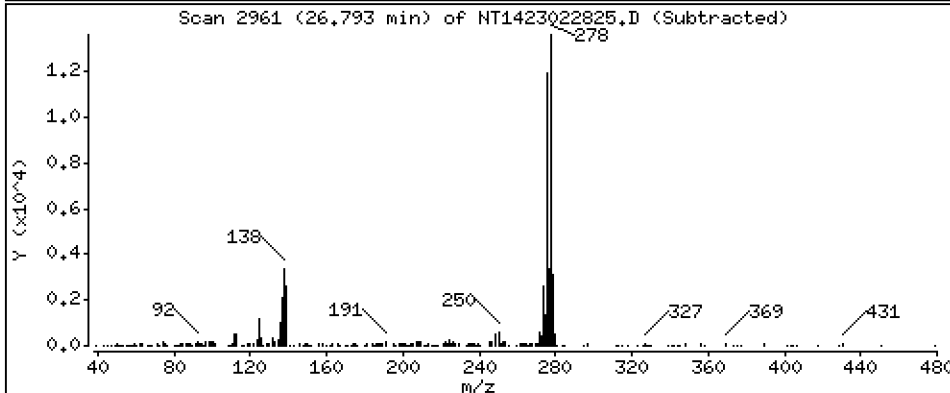
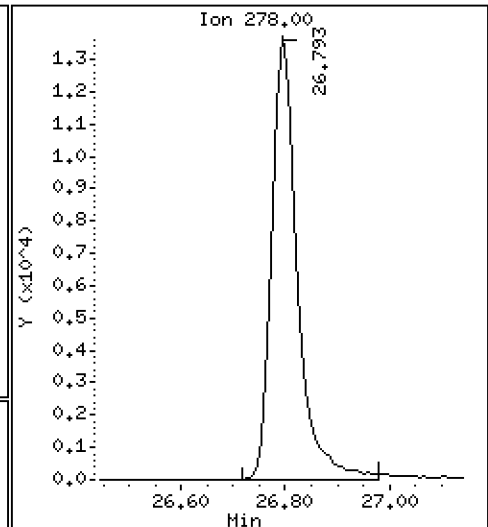
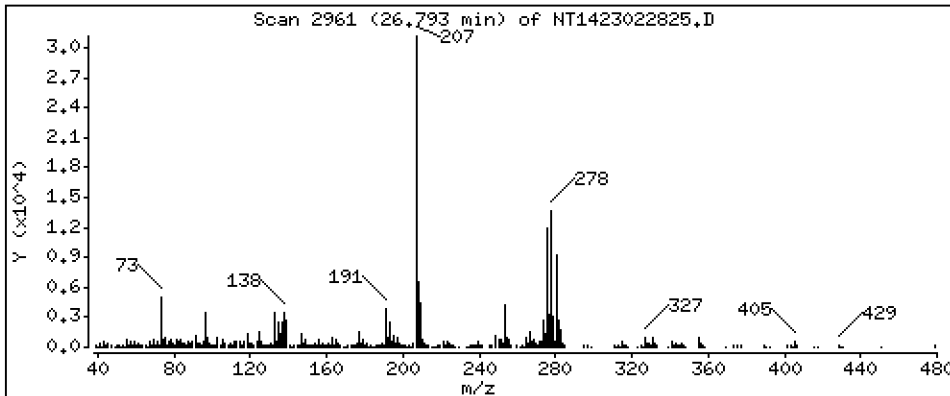
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 0,3534 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

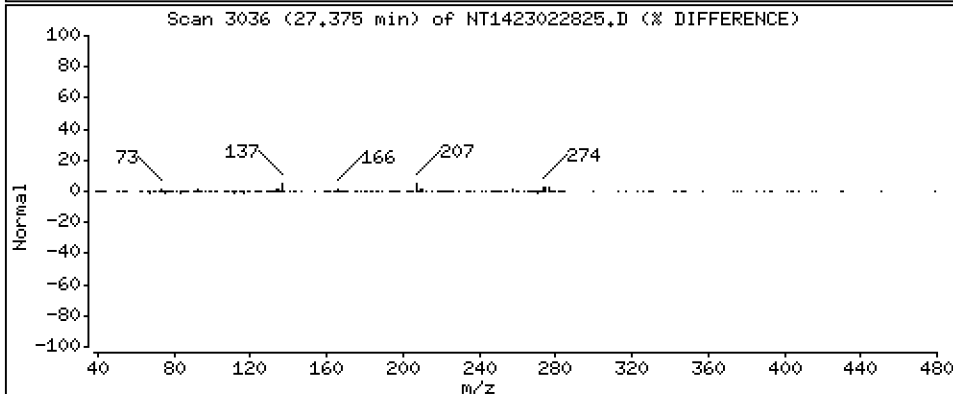
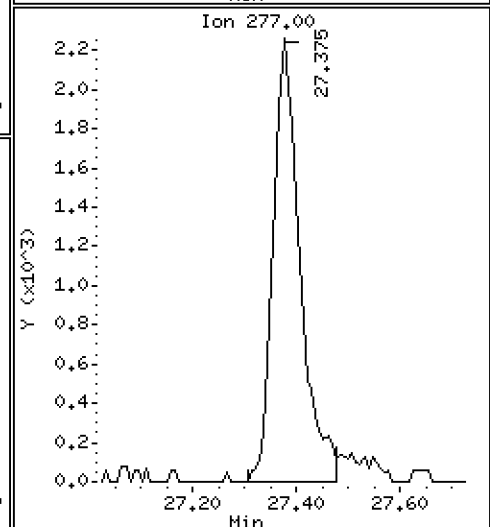
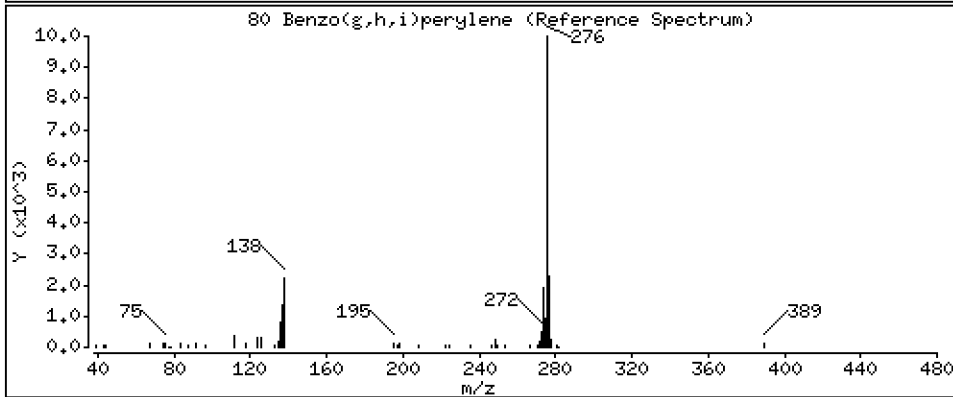
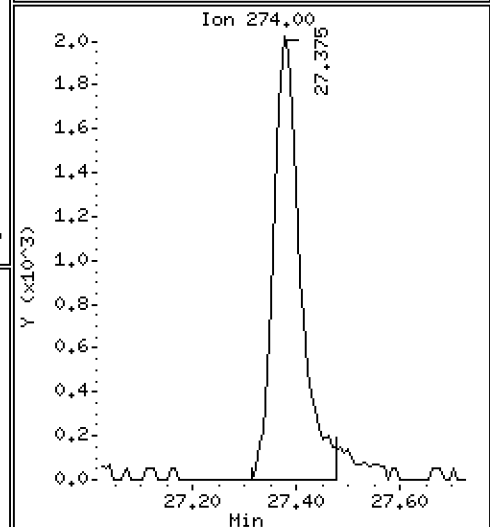
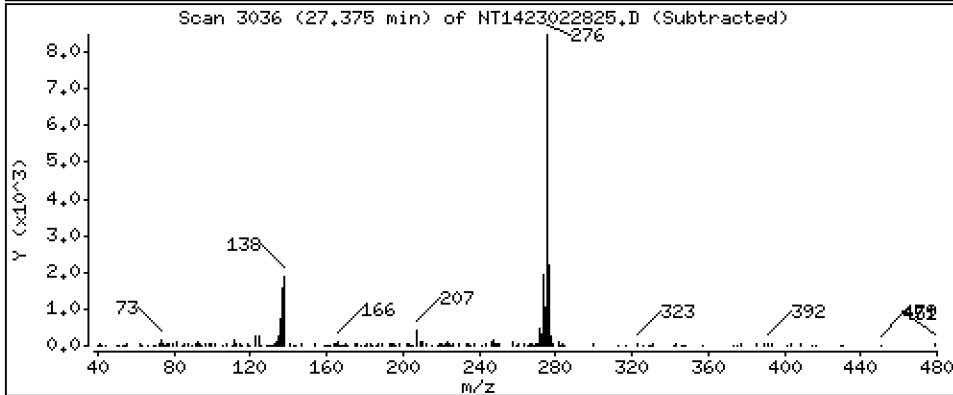
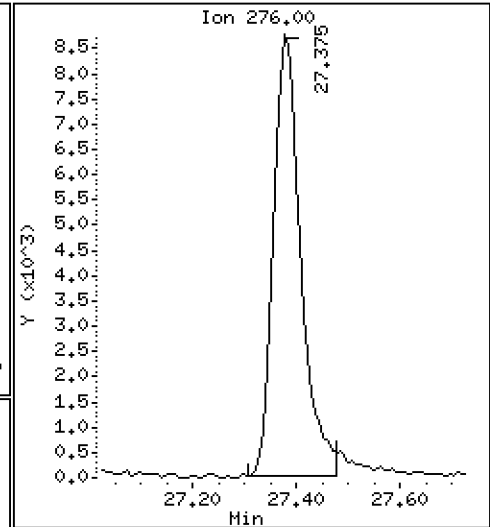
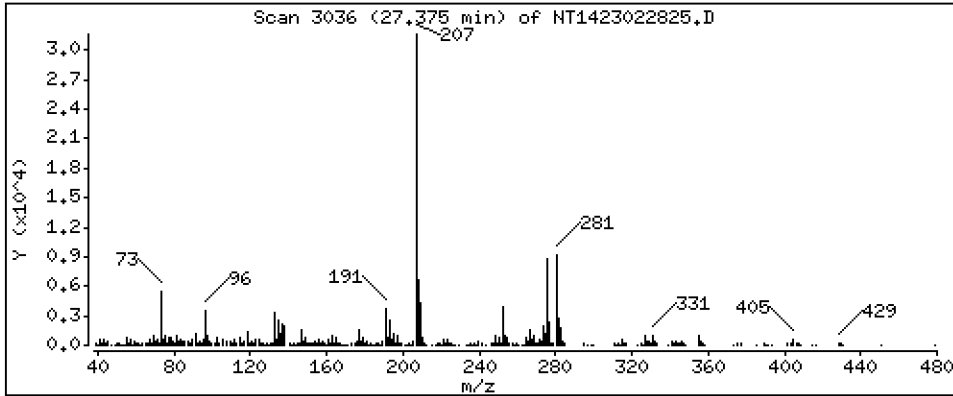
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 0,2332 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

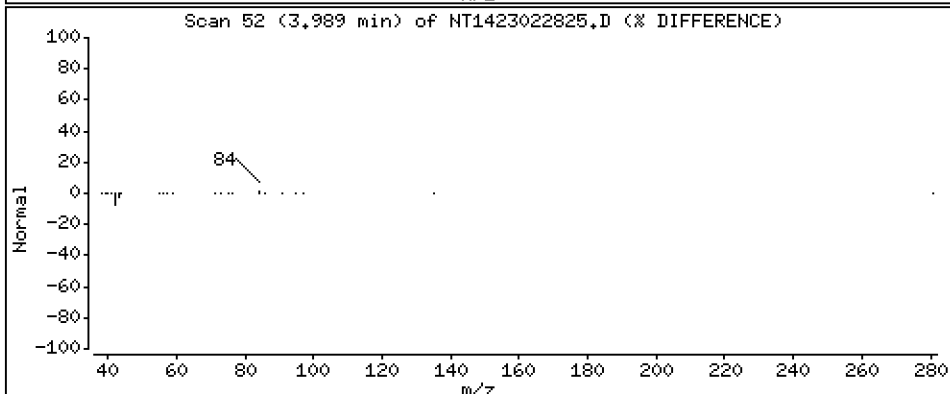
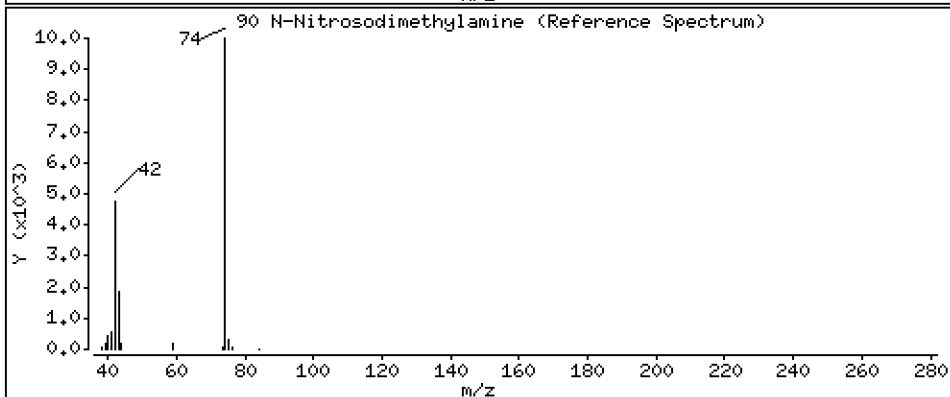
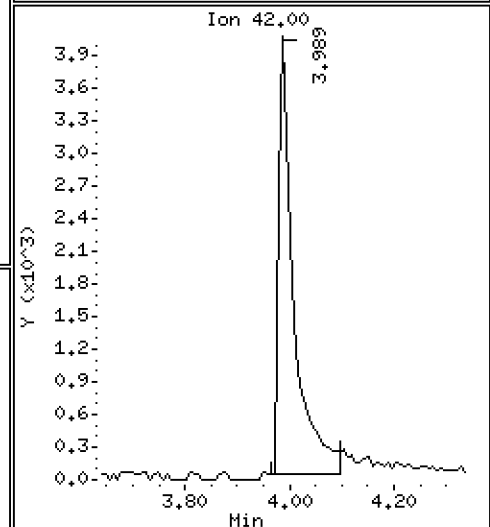
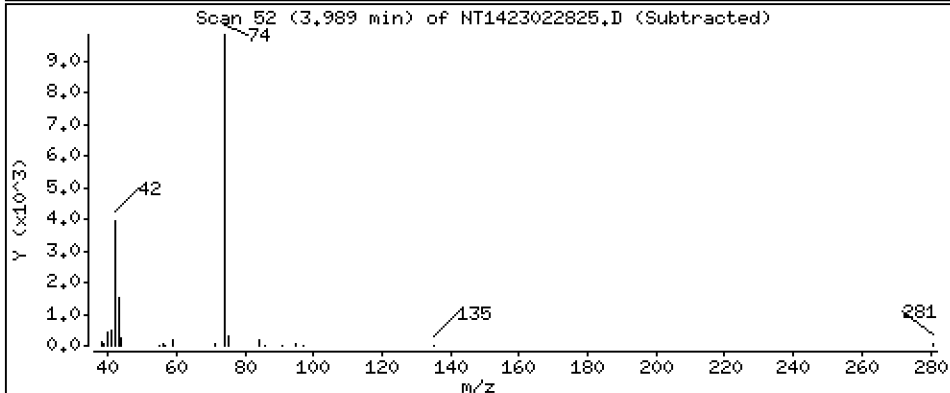
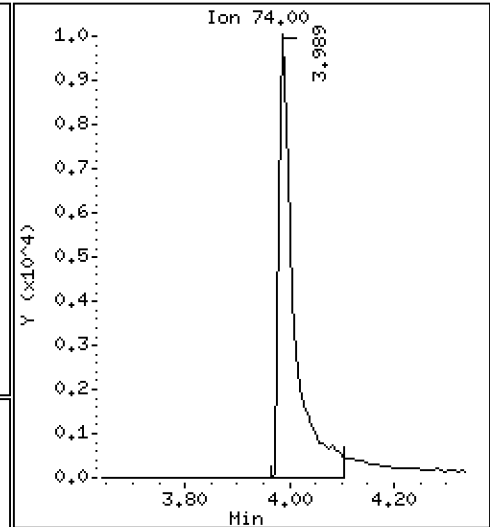
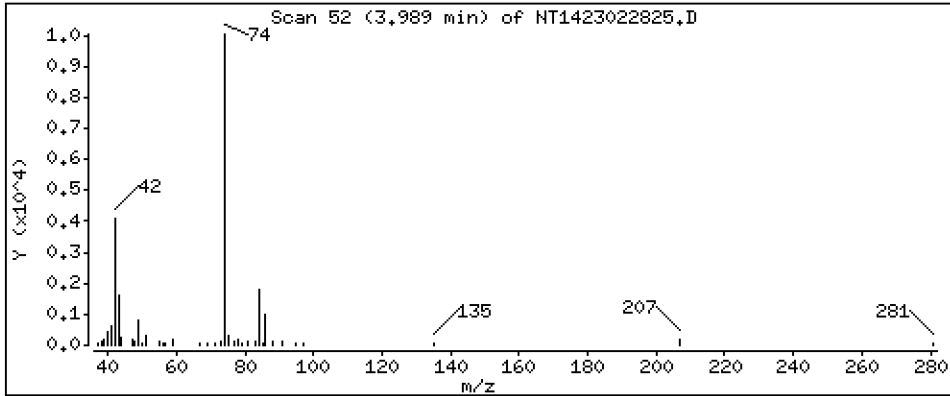
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

90 N-Nitrosodimethylamine

Concentration: 0,7333 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

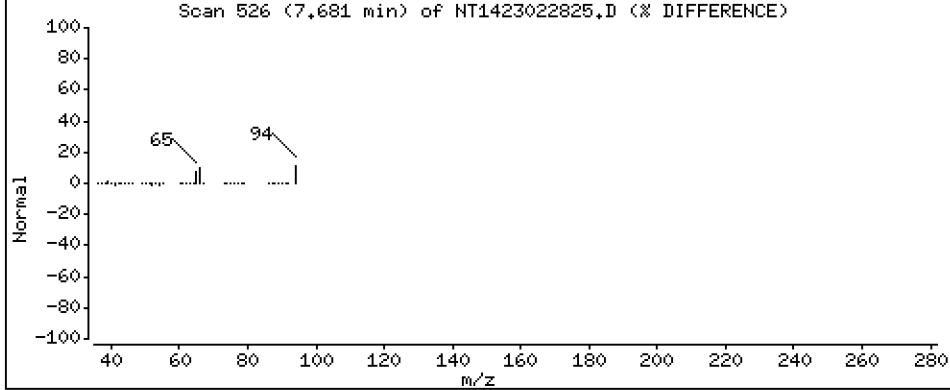
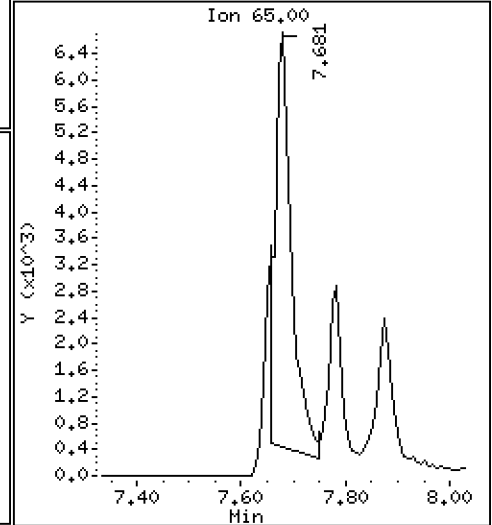
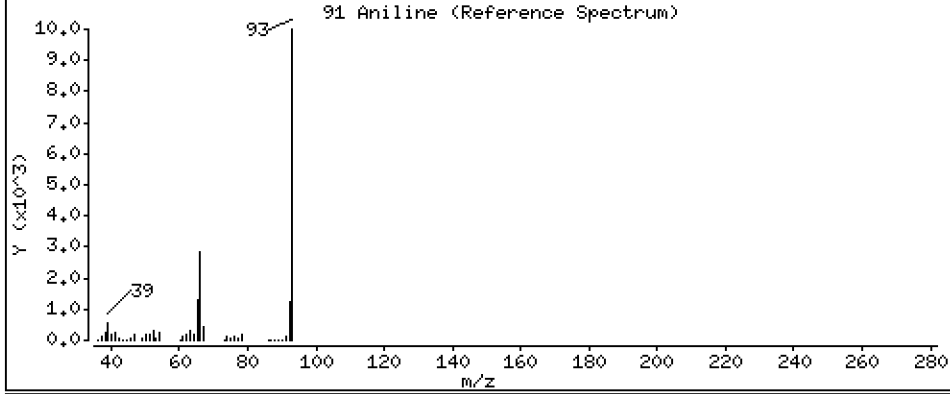
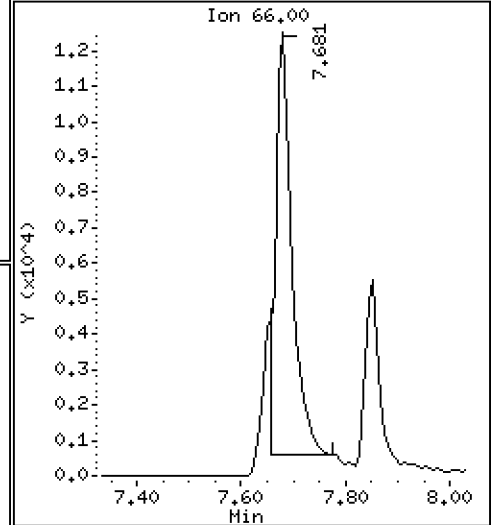
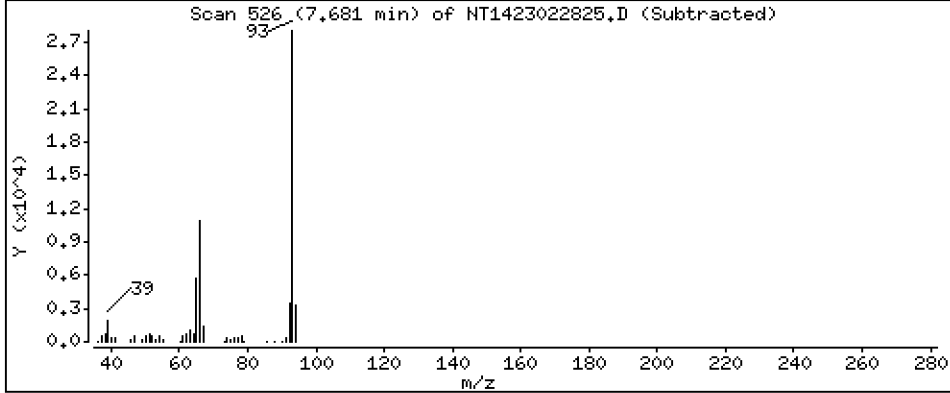
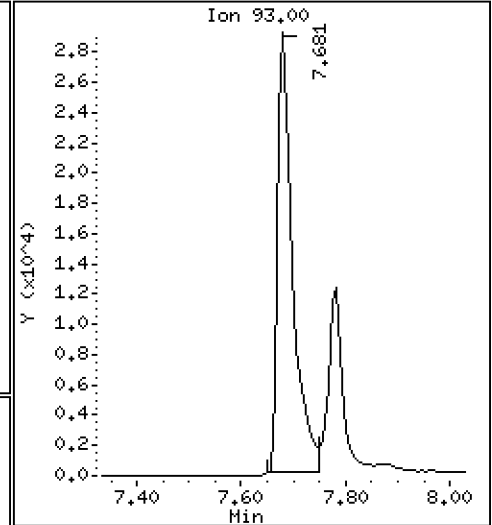
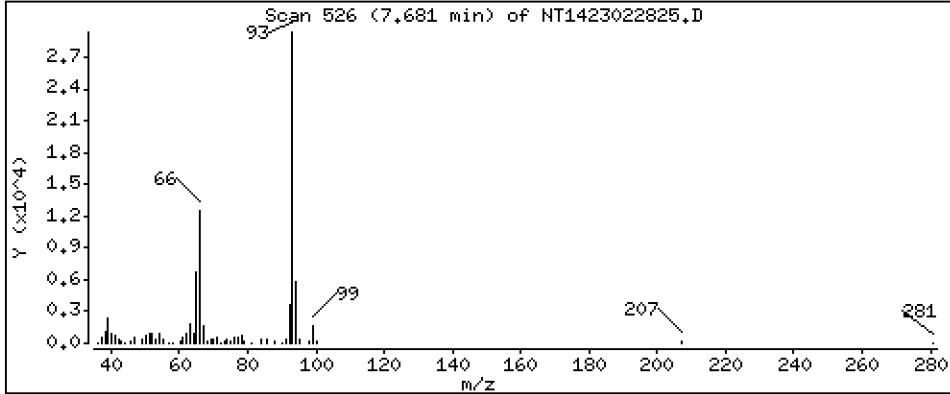
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

91 Aniline

Concentration: 0.9034 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

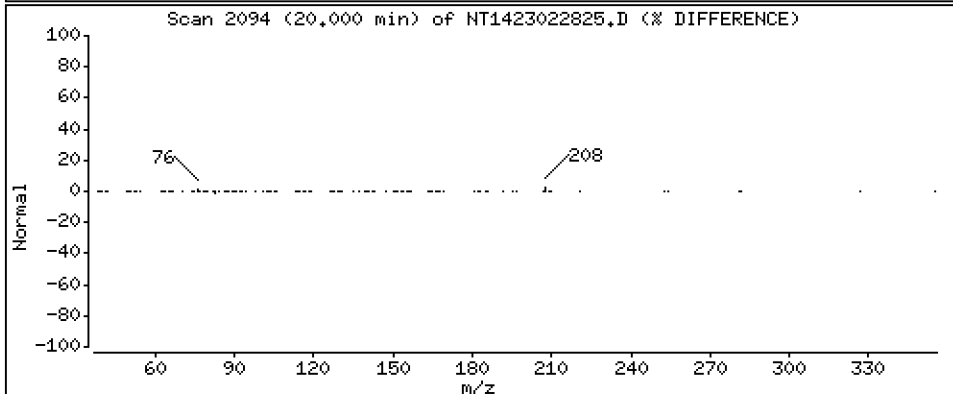
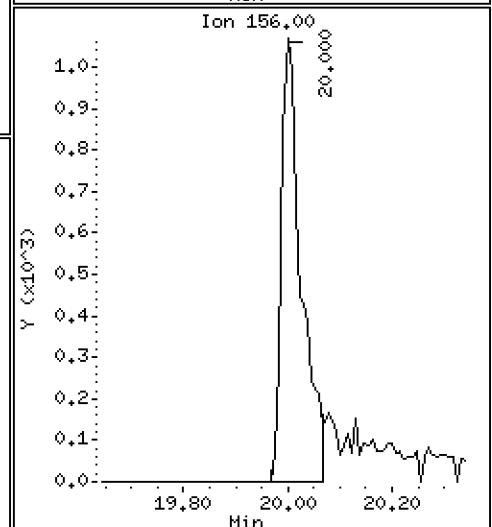
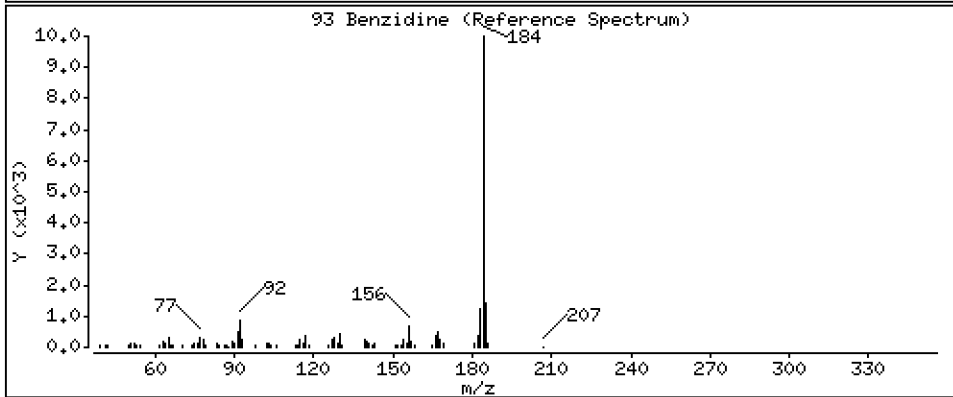
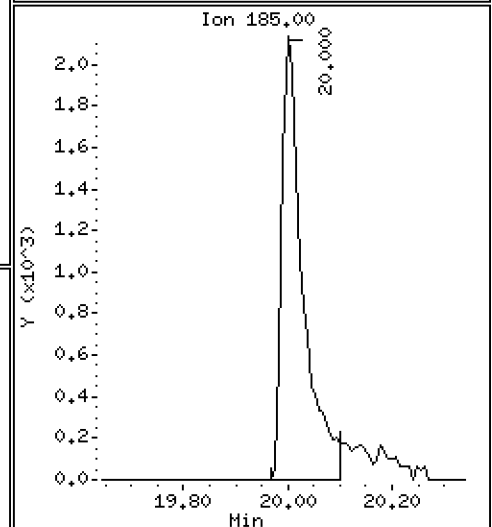
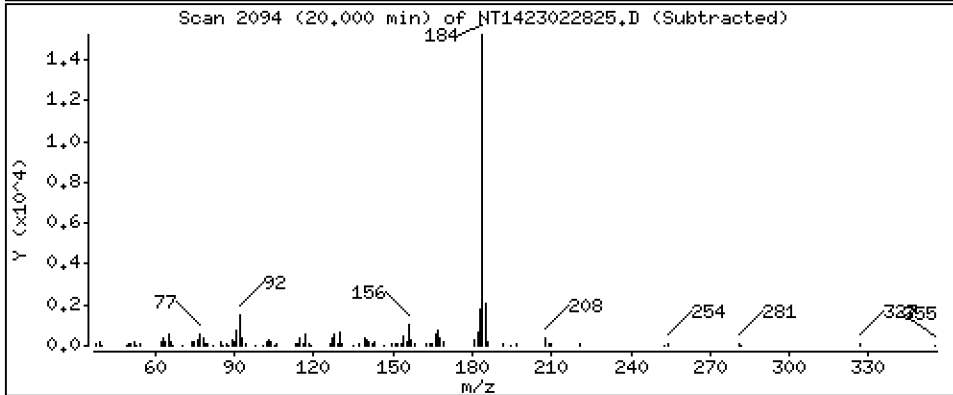
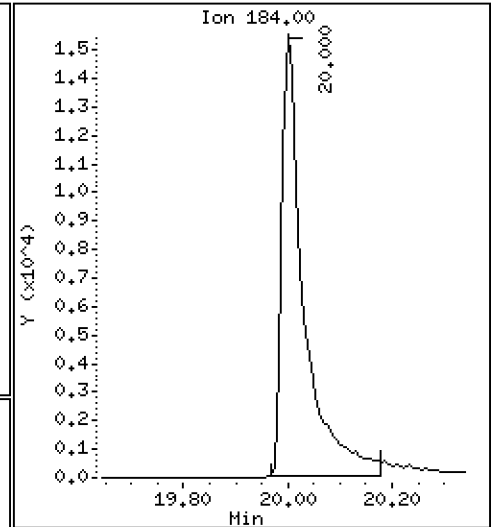
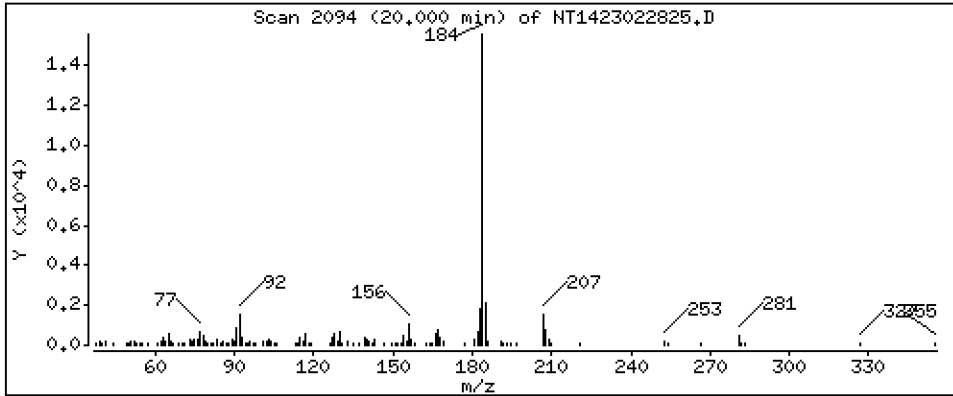
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

93 Benzidine

Concentration: 0,7531 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

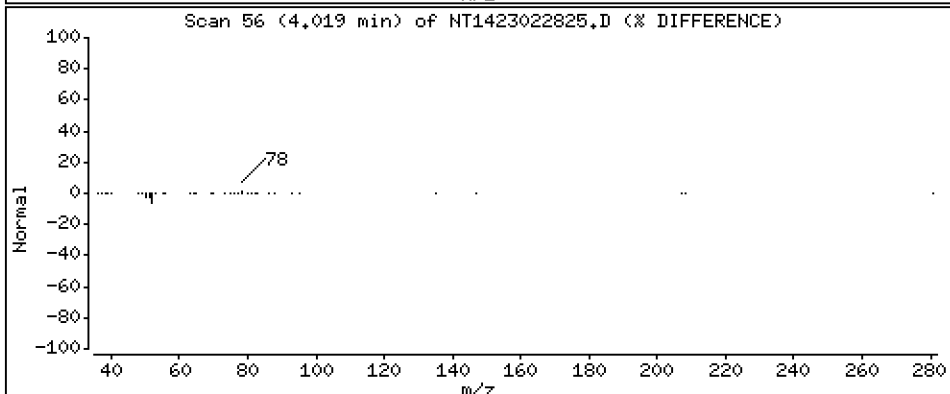
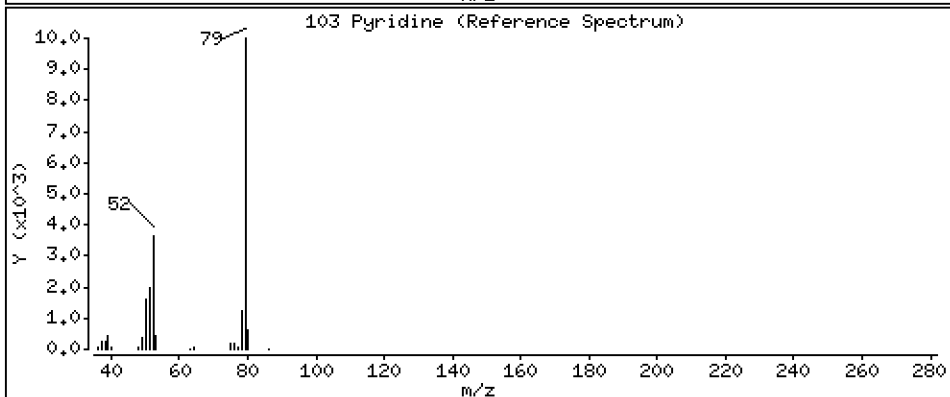
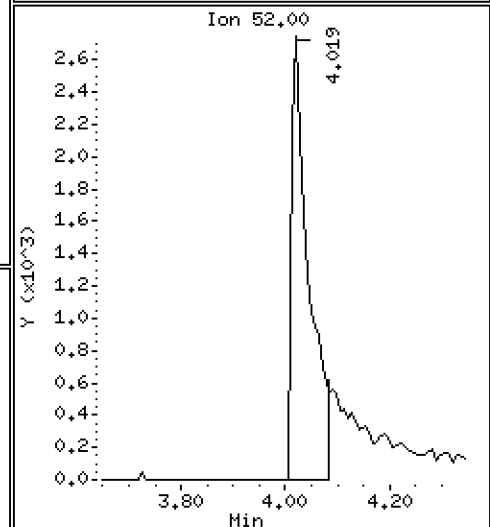
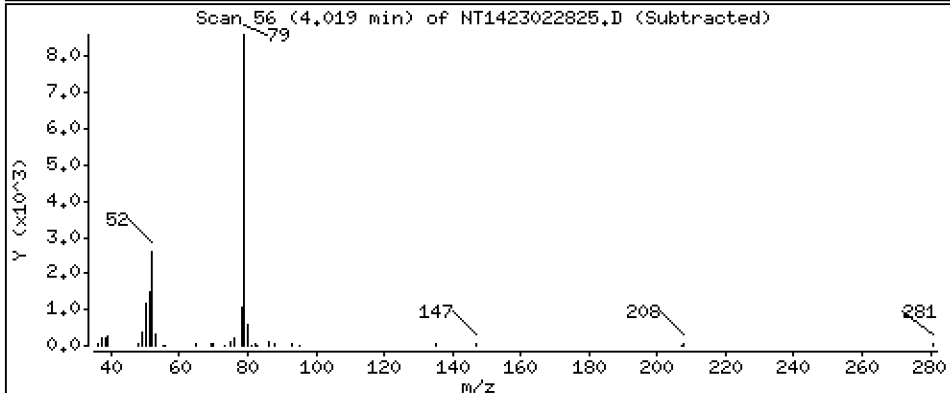
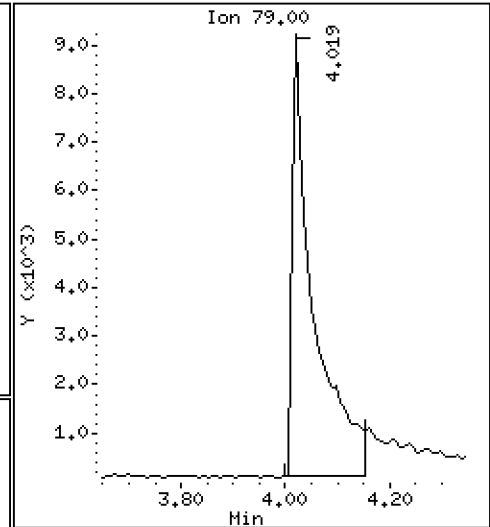
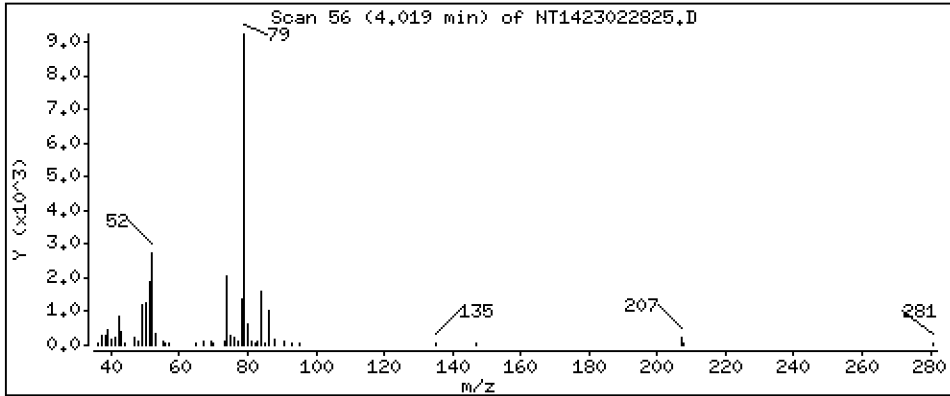
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

103 Pyridine

Concentration: 0,3342 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

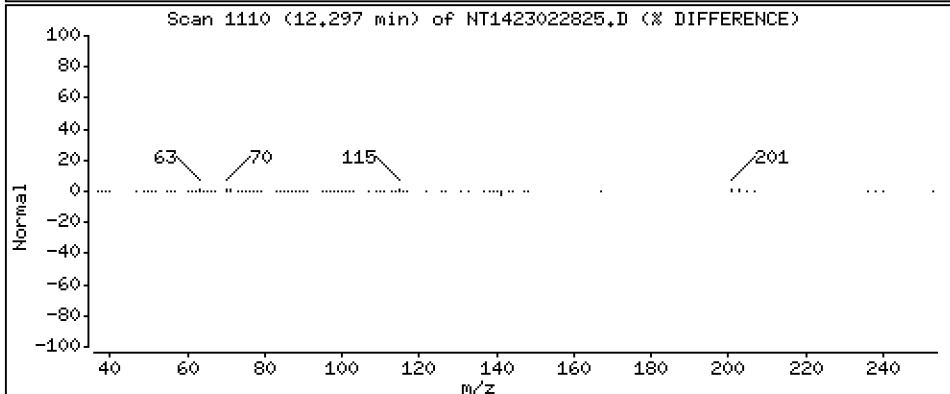
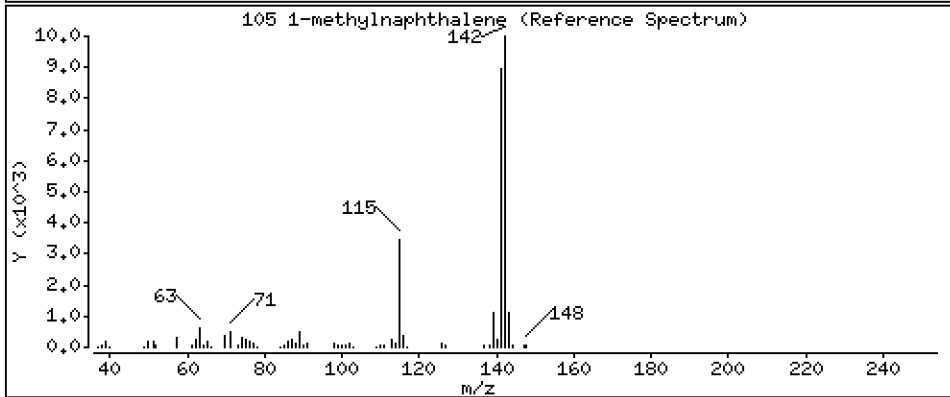
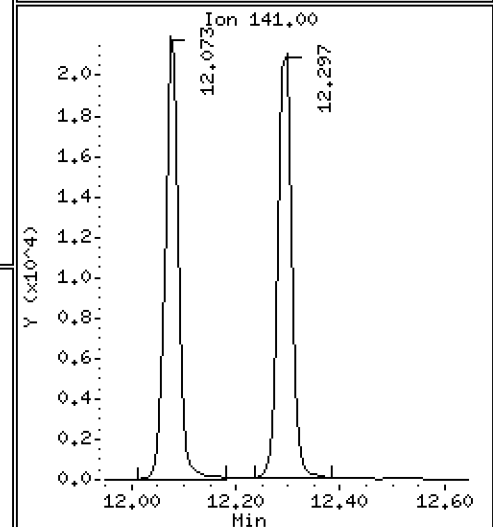
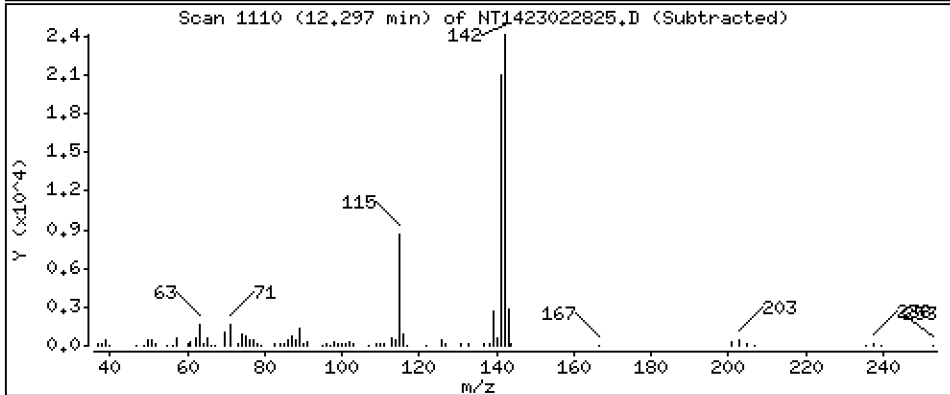
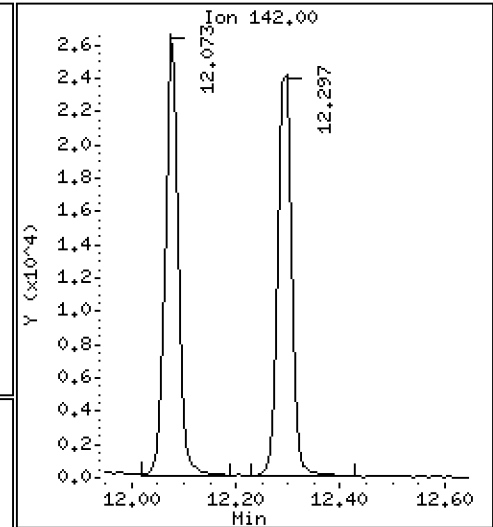
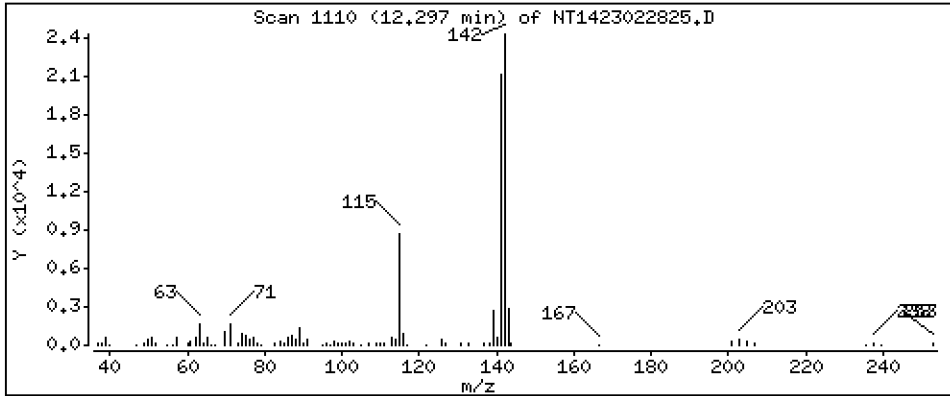
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 0,5112 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

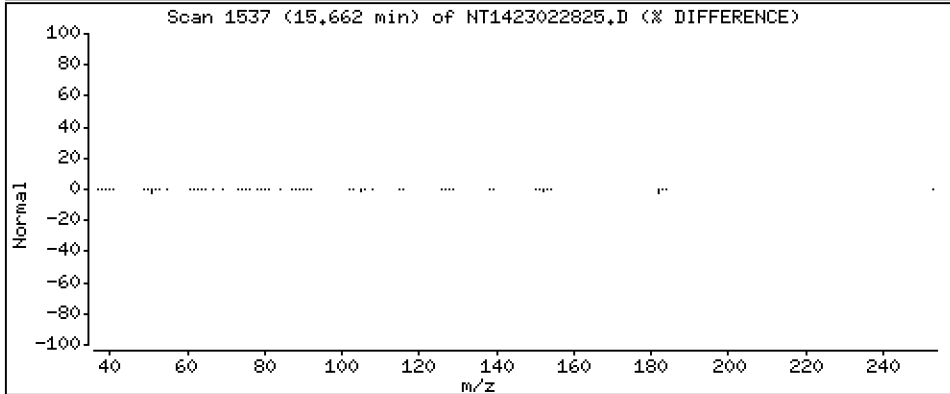
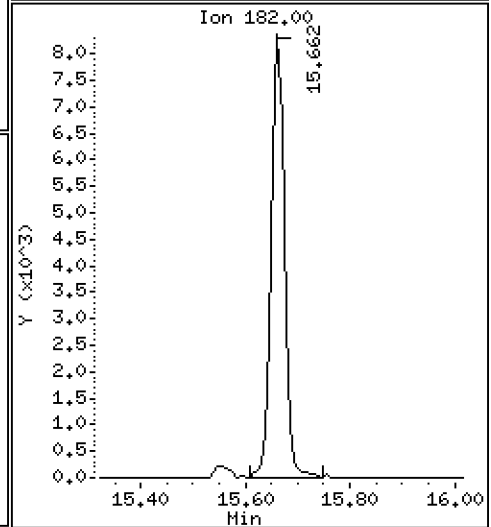
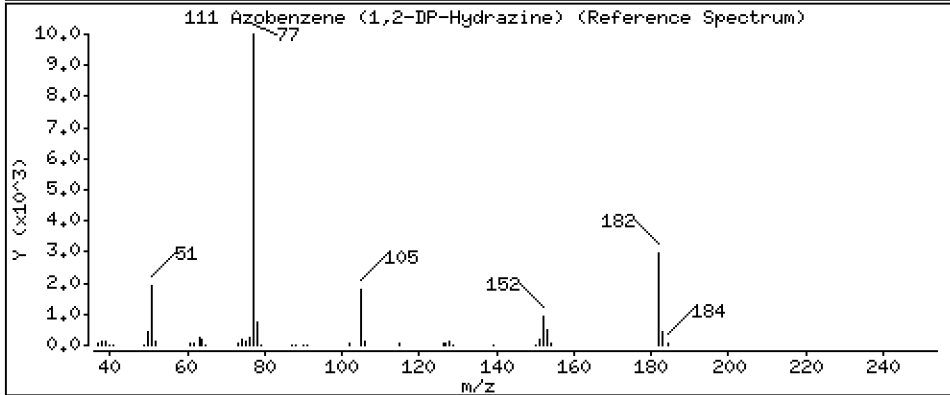
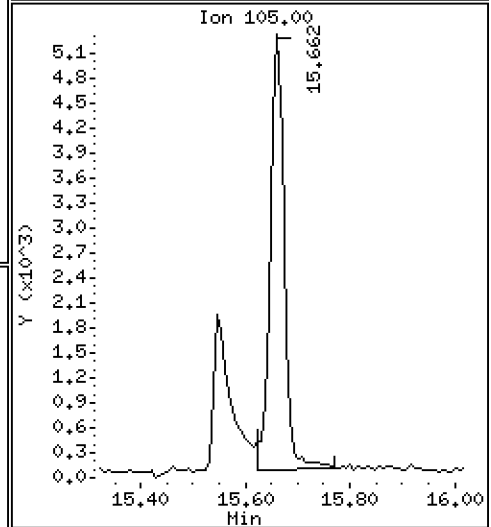
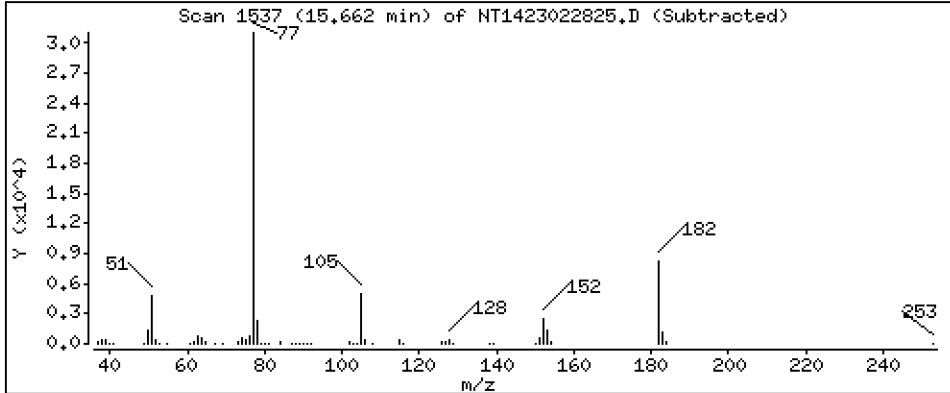
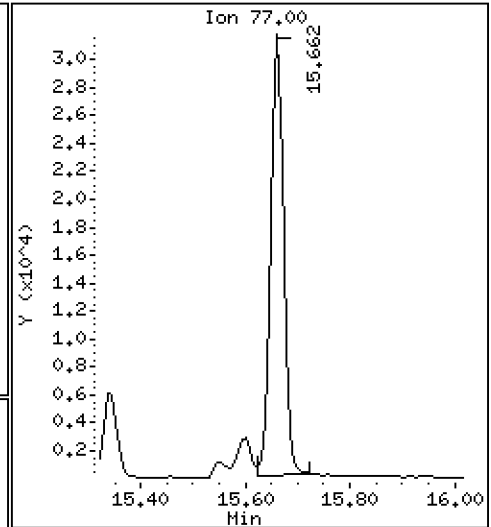
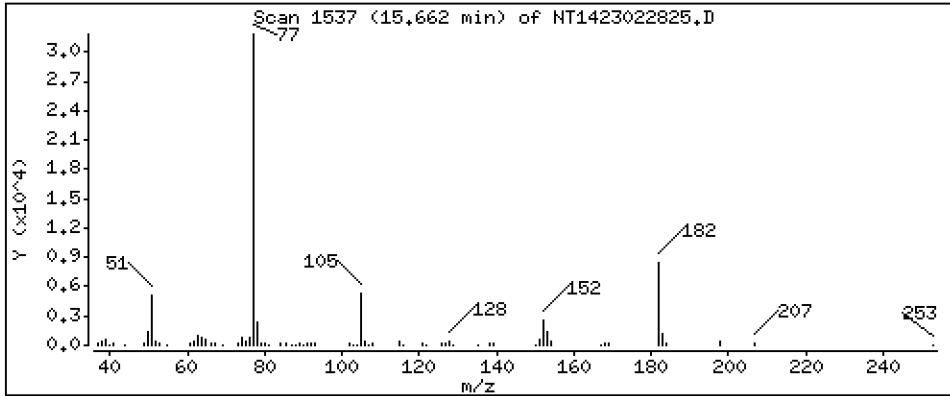
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 0,5712 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

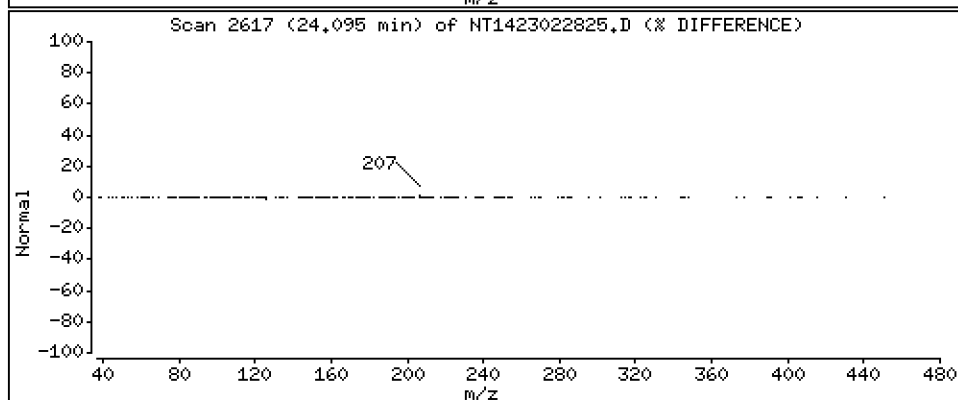
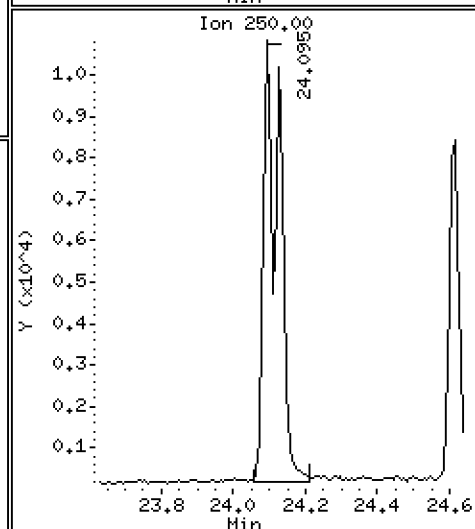
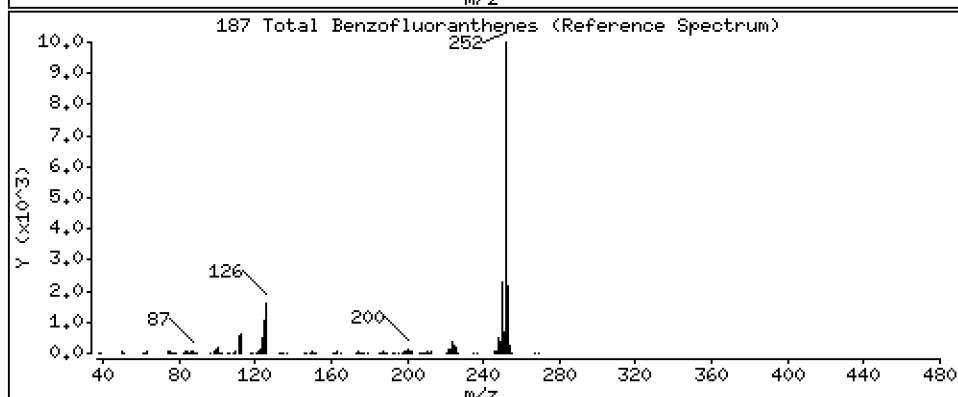
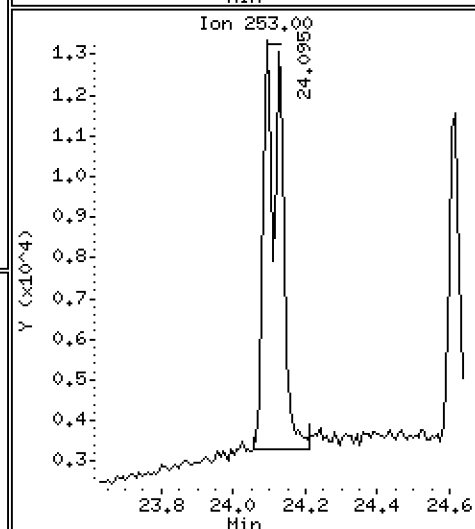
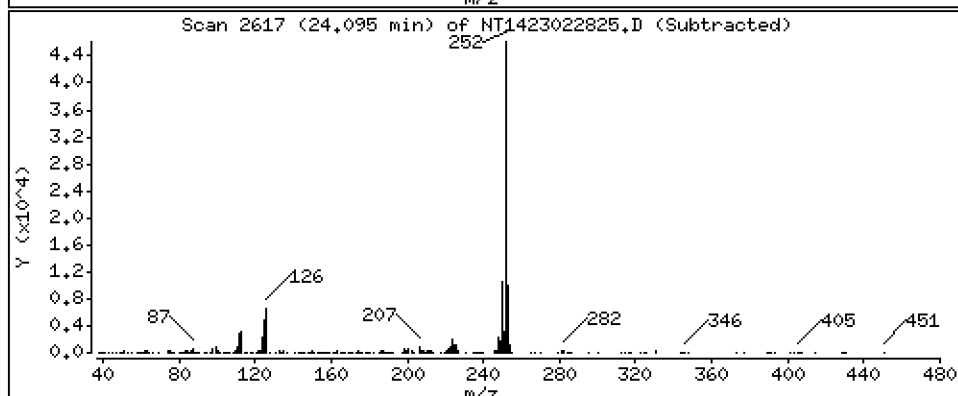
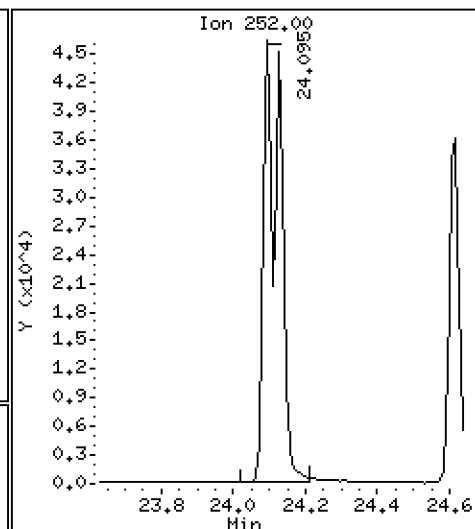
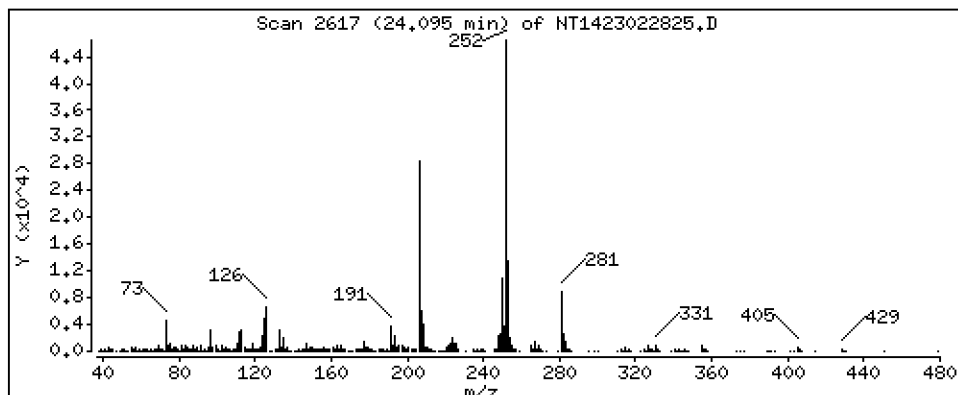
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 1,055 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

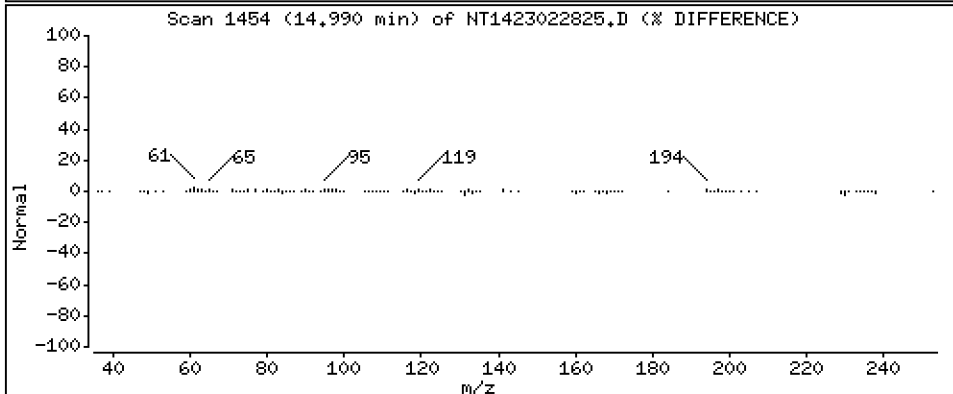
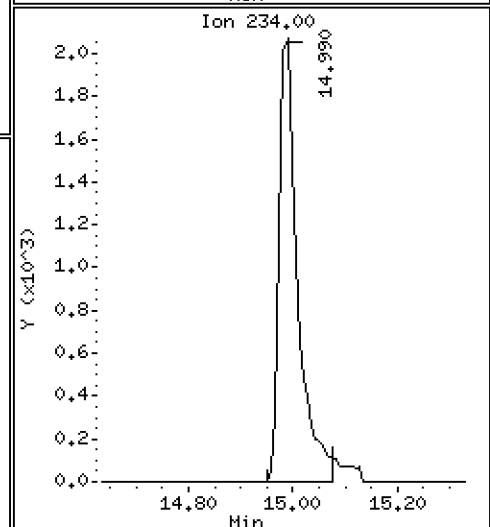
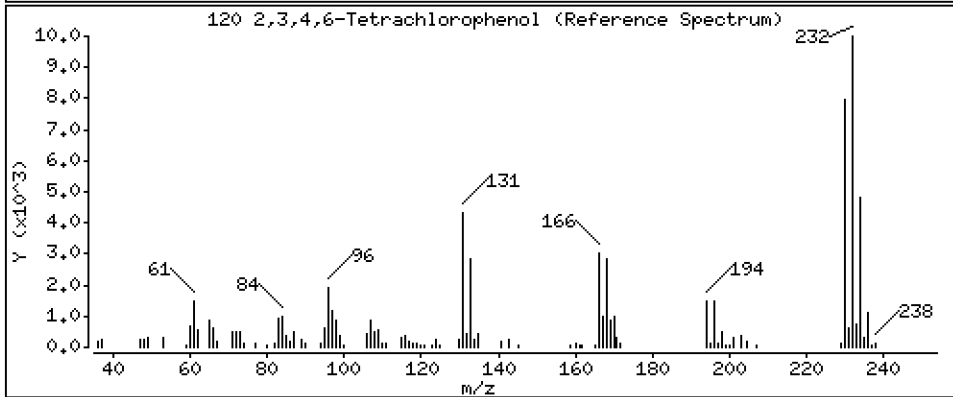
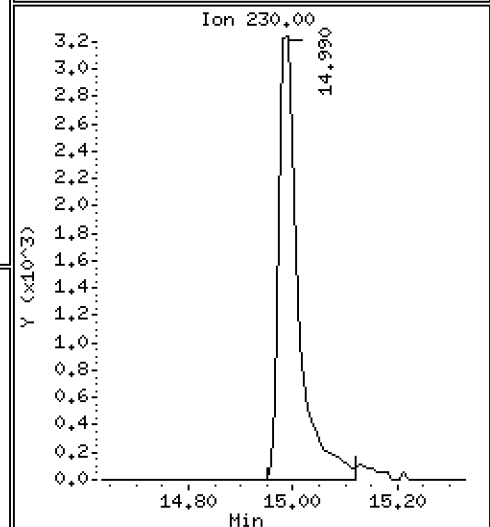
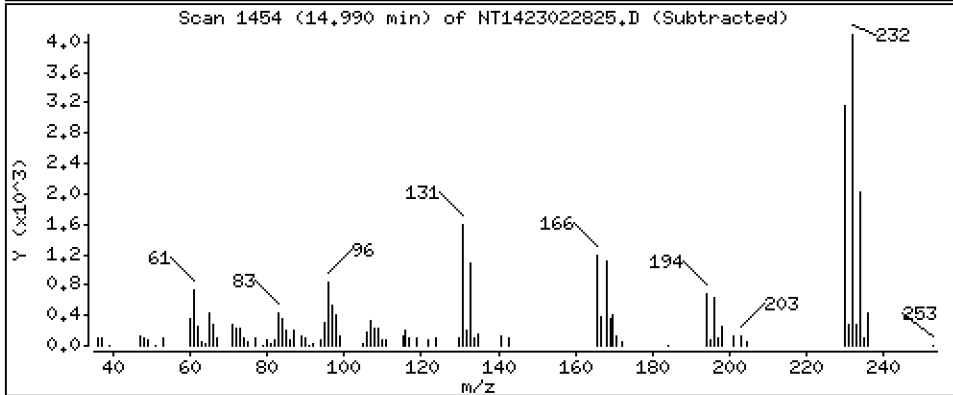
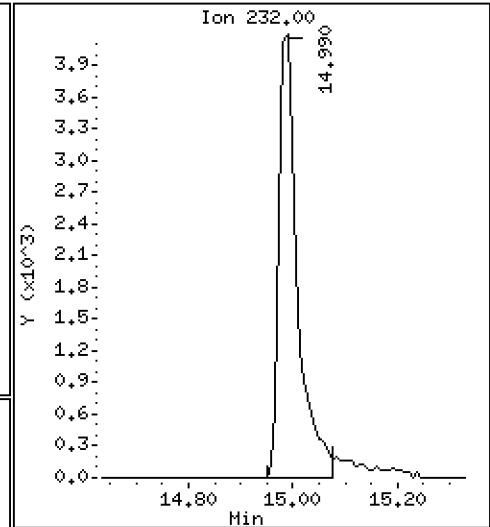
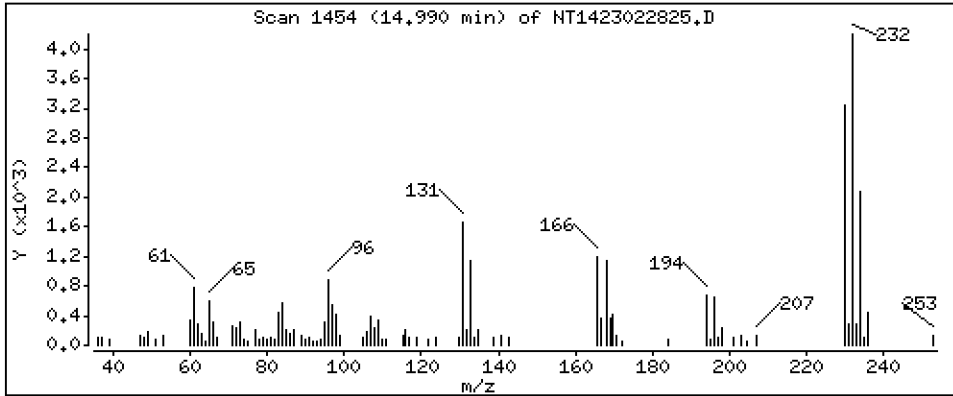
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

120 2,3,4,6-Tetrachlorophenol

Concentration: 0,3401 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230228.b\NT1423022825.D
 Lab Smp Id: SLB0374-LCV2
 Inj Date : 01-MAR-2023 16:04 MS Autotune Date: 17-MAY-2011 01:22
 Operator : JGR Inst ID: nt14.i
 Smp Info : SLB0374-LCV2
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt14.i\20230228.b\ABN.m
 Meth Date : 11-Mar-2023 09:11 van Quant Type: ISTD
 Cal Date : 28-FEB-2023 15:16 Cal File: NT1423022808.D
 Als bottle: 7
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: ICAL.sub
 Target Version: 4.14
 Processing Host: VANS-201906

| Compounds | QUANT | SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|---------------------------------|-------|-----|--------|--------|---------|----------|----------------|------------|
| | | | | | | | ON-COLUMN | FINAL |
| | MASS | | | | | | (ug/mL) | (ug/mL) |
| \$ 1 2-Fluorophenol | 112 | | 6.050 | 6.050 | (0.739) | 24383 | 0.69014 | 0.6901 |
| \$ 2 Phenol-d5 | 99 | | 7.634 | 7.634 | (0.932) | 37650 | 0.75058 | 0.7506 |
| 3 Phenol | 94 | | 7.657 | 7.657 | (0.935) | 29884 | 0.49931 | 0.4993 |
| \$ 5 2-Chlorophenol-d4 | 132 | | 7.850 | 7.850 | (0.958) | 32113 | 0.75290 | 0.7529 |
| 4 Bis(2-Chloroethyl)ether | 93 | | 7.781 | 7.781 | (0.950) | 21707 | 0.51480 | 0.5148 |
| 6 2-Chlorophenol | 128 | | 7.874 | 7.874 | (0.961) | 21368 | 0.48470 | 0.4847 |
| 7 1,3-Dichlorobenzene | 146 | | 8.129 | 8.129 | (0.992) | 25546 | 0.52581 | 0.5258 |
| * 8 1,4-Dichlorobenzene-d4 | 152 | | 8.191 | 8.191 | (1.000) | 130297 | 4.00000 | |
| 9 1,4-Dichlorobenzene | 146 | | 8.222 | 8.222 | (1.004) | 24260 | 0.50524 | 0.5052 |
| \$ 10 1,2-Dichlorobenzene-d4 | 152 | | 8.548 | 8.548 | (1.044) | 16395 | 0.51058 | 0.5106 |
| 12 1,2-Dichlorobenzene | 146 | | 8.571 | 8.571 | (1.046) | 23981 | 0.52085 | 0.5209 |
| 11 Benzyl alcohol | 108 | | 8.517 | 8.501 | (1.040) | 7511 | 0.28778 | 0.2878 |
| 14 2,2'-oxybis(1-Chloropropane) | 121 | | 8.789 | 8.789 | (1.073) | 6479 | 0.52179 | 0.5218 (M) |
| 13 2-Methylphenol | 108 | | 8.742 | 8.742 | (1.067) | 18670 | 0.49379 | 0.4938 |
| 17 Hexachloroethane | 117 | | 9.146 | 9.146 | (1.117) | 7573 | 0.41997 | 0.4200 |
| 16 N-Nitroso-di-n-propylamine | 70 | | 9.045 | 9.053 | (1.104) | 15781 | 0.54817 | 0.5482 |
| 15 4-Methylphenol | 108 | | 9.021 | 9.014 | (1.101) | 18566 | 0.42187 | 0.4219 |
| \$ 18 Nitrobenzene-d5 | 82 | | 9.285 | 9.285 | (0.873) | 24219 | 0.53982 | 0.5398 |
| 19 Nitrobenzene | 77 | | 9.324 | 9.316 | (0.876) | 23728 | 0.55036 | 0.5504 |
| 20 Isophorone | 82 | | 9.766 | 9.774 | (0.918) | 29206 | 0.43378 | 0.4338 |
| 21 2-Nitrophenol | 139 | | 9.945 | 9.945 | (0.935) | 8334 | 0.37342 | 0.3734 |
| 22 2,4-Dimethylphenol | 107 | | 10.038 | 10.038 | (0.943) | 43062 | 1.09561 | 1.096 |
| 23 Bis(2-Chloroethoxy)methane | 93 | | 10.224 | 10.224 | (0.961) | 21581 | 0.49789 | 0.4979 |
| 24 Benzoic acid | 105 | | 10.649 | 10.364 | (1.001) | 8835 | 0.56723 | 0.5672 (M) |
| 25 2,4-Dichlorophenol | 162 | | 10.410 | 10.402 | (0.978) | 34152 | 0.85893 | 0.8589 |
| 26 1,2,4-Trichlorobenzene | 180 | | 10.572 | 10.572 | (0.993) | 22471 | 0.50588 | 0.5059 |
| * 27 Naphthalene-d8 | 136 | | 10.642 | 10.649 | (1.000) | 458645 | 4.00000 | |
| 28 Naphthalene | 128 | | 10.688 | 10.688 | (1.004) | 64820 | 0.52984 | 0.5298 |
| 29 4-Chloroaniline | 127 | | 10.850 | 10.850 | (1.020) | 49527 | 0.94650 | 0.9465 |
| 30 Hexachlorobutadiene | 225 | | 11.059 | 11.066 | (1.039) | 14894 | 0.54949 | 0.5495 |
| 31 4-Chloro-3-methylphenol | 107 | | 11.848 | 11.840 | (1.113) | 34399 | 0.97231 | 0.9723 |
| 32 2-Methylnaphthalene | 142 | | 12.072 | 12.080 | (1.134) | 45932 | 0.50700 | 0.5070 |
| 33 Hexachlorocyclopentadiene | 237 | | 12.544 | 12.545 | (0.881) | 807 | 0.02907 | 0.02907 |

| Compounds | QUANT SIG | | | | | CONCENTRATIONS | |
|-----------------------------------|-----------|--------|--------|---------|----------|----------------------|------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | ON-COLUMN (ug/mL) | FINAL (ug/mL) |
| 34 2,4,6-Trichlorophenol | 196 | 12.715 | 12.715 | (0.893) | 24128 | 0.93333 | 0.9333 |
| 35 2,4,5-Trichlorophenol | 196 | 12.800 | 12.792 | (0.899) | 24519 | 0.87721 | 0.8772 |
| § 36 2-Fluorobiphenyl | 172 | 12.869 | 12.877 | (0.904) | 53901 | 0.52329 | 0.5233 |
| 37 2-Chloronaphthalene | 162 | 13.055 | 13.063 | (0.917) | 42981 | 0.52054 | 0.5205 |
| 38 2-Nitroaniline | 65 | 13.349 | 13.349 | (0.938) | 22569 | 1.04801 | 1.048 |
| 39 Dimethylphthalate | 163 | 13.790 | 13.798 | (0.969) | 45635 | 0.54823 | 0.5482 |
| 40 Acenaphthylene | 152 | 13.914 | 13.922 | (0.978) | 68668 | 0.56675 | 0.5668 |
| 41 2,6-Dinitrotoluene | 165 | 13.914 | 13.922 | (0.978) | 19398 | 0.99445 | 0.9944 |
| * 42 Acenaphthene-d10 | 164 | 14.232 | 14.232 | (1.000) | 264644 | 4.00000 | |
| 43 3-Nitroaniline | 138 | 14.201 | 14.201 | (0.998) | 18220 | 0.91134 | 0.9113 (M) |
| 44 Acenaphthene | 153 | 14.293 | 14.301 | (1.004) | 40422 | 0.52108 | 0.5211 |
| 45 2,4-Dinitrophenol | 184 | 14.479 | 14.417 | (1.017) | 4113 | 0.33346 | 0.3335 (M) |
| 46 Dibenzofuran | 168 | 14.626 | 14.626 | (1.028) | 62717 | 0.50811 | 0.5081 |
| 47 4-Nitrophenol | 109 | 14.626 | 14.579 | (1.028) | 7202 | 0.72835 | 0.7283 (M) |
| 48 2,4-Dinitrotoluene | 165 | 14.719 | 14.726 | (1.034) | 24221 | 0.86252 | 0.8625 |
| 50 Diethylphthalate | 149 | 15.237 | 15.252 | (1.071) | 42301 | 0.54343 | 0.5434 |
| 49 Fluorene | 166 | 15.329 | 15.330 | (1.077) | 55678 | 0.53537 | 0.5354 |
| 51 4-Chlorophenyl-phenylether | 204 | 15.345 | 15.345 | (1.078) | 28067 | 0.50722 | 0.5072 |
| 52 4-Nitroaniline | 138 | 15.469 | 15.469 | (1.087) | 15994 | 0.80704 | 0.8070 |
| 53 4,6-Dinitro-2-methylphenol | 198 | 15.553 | 15.553 | (0.902) | 12809 | 0.76541 | 0.7654 |
| 54 N-Nitrosodiphenylamine | 169 | 15.600 | 15.607 | (0.905) | 35122 | 0.55522 | 0.5552 |
| § 55 2,4,6-Tribromophenol | 330 | 15.869 | 15.870 | (1.115) | 8877 | 0.62352 | 0.6235 |
| 56 4-Bromophenyl-phenylether | 248 | 16.332 | 16.340 | (0.947) | 14281 | 0.51351 | 0.5135 |
| 57 Hexachlorobenzene | 284 | 16.626 | 16.626 | (0.965) | 15894 | 0.51981 | 0.5198 |
| 58 Pentachlorophenol | 266 | 17.021 | 17.005 | (0.987) | 6162 | 0.42793 | 0.4279 (M) |
| * 59 Phenanthrene-d10 | 188 | 17.237 | 17.237 | (1.000) | 503378 | 4.00000 | |
| 60 Phenanthrene | 178 | 17.284 | 17.291 | (1.003) | 68635 | 0.51255 | 0.5125 |
| 61 Anthracene | 178 | 17.376 | 17.384 | (1.008) | 65695 | 0.51894 | 0.5189 |
| 62 Carbazole | 167 | 17.732 | 17.732 | (1.029) | 54926 | 0.49504 | 0.4950 |
| 63 Di-n-butylphthalate | 149 | 18.583 | 18.583 | (1.078) | 68478 | 0.47836 | 0.4784 |
| 64 Fluoranthene | 202 | 19.705 | 19.705 | (0.881) | 71411 | 0.51288 | 0.5129 |
| 65 Pyrene | 202 | 20.131 | 20.139 | (0.900) | 75143 | 0.51188 | 0.5119 |
| § 66 Terphenyl-d14 | 244 | 20.464 | 20.471 | (0.915) | 58216 | 0.51507 | 0.5151 |
| 67 Butylbenzylphthalate | 149 | 21.431 | 21.439 | (0.958) | 26564 | 0.51187 | 0.5119 |
| 68 Benzo(a)anthracene | 228 | 22.330 | 22.330 | (0.999) | 67033 | 0.54529 | 0.5453 |
| * 69 Chrysene-d12 | 240 | 22.361 | 22.361 | (1.000) | 366987 | 4.00000 | |
| 70 3,3'-Dichlorobenzidine | 252 | 22.314 | 22.322 | (0.998) | 65094 | 1.85418 | 1.854 |
| 71 Chrysene | 228 | 22.399 | 22.407 | (1.002) | 62929 | 0.53257 | 0.5326 |
| 72 bis(2-Ethylhexyl)phthalate | 149 | 22.484 | 22.492 | (0.958) | 37013 | 0.45397 | 0.4540 |
| * 134 Di-n-octylphthalate-d4 | 153 | 23.468 | 23.468 | (1.000) | 534079 | 4.00000 | |
| 73 Di-n-octylphthalate | 149 | 23.475 | 23.483 | (1.000) | 70363 | 0.50037 | 0.5004 |
| 74 Benzo(b)fluoranthene | 252 | 24.095 | 24.103 | (0.975) | 73828 | 0.51526 | 0.5153 |
| 75 Benzo(k)fluoranthene | 252 | 24.126 | 24.134 | (0.976) | 82321 | 0.53255 | 0.5325 |
| 76 Benzo(a)pyrene | 252 | 24.614 | 24.621 | (0.996) | 67241 | 0.54699 | 0.5470 |
| * 77 Perylene-d12 | 264 | 24.706 | 24.707 | (1.000) | 433681 | 4.00000 | |
| 78 Indeno(1,2,3-cd)pyrene | 276 | 26.784 | 26.784 | (1.084) | 50421 | 0.32584 | 0.3258 |
| 79 Dibenzo(a,h)anthracene | 278 | 26.792 | 26.792 | (1.084) | 46446 | 0.35340 | 0.3534 |
| 80 Benzo(g,h,i)perylene | 276 | 27.375 | 27.375 | (1.108) | 31480 | 0.23325 | 0.2332 |
| 90 N-Nitrosodimethylamine | 74 | 3.988 | 3.988 | (0.487) | 19578 | 0.73328 | 0.7333 |
| 91 Aniline | 93 | 7.680 | 7.681 | (0.938) | 55676 | 0.90344 | 0.9034 |
| 93 Benzidine | 184 | 19.999 | 19.992 | (0.894) | 44776 | 0.75309 | 0.7531 |
| 103 Pyridine | 79 | 4.019 | 3.996 | (0.491) | 26398 | 0.33418 | 0.3342 |
| 105 1-methylnaphthalene | 142 | 12.297 | 12.297 | (1.156) | 42635 | 0.51118 | 0.5112 |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77 | 15.661 | 15.669 | (1.100) | 51044 | 0.57119 | 0.5712 |

| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|-------------------------------|-----------|--------|--------|---------|----------|----------------------|------------------|
| | | | | | | ON-COLUMN (ug/mL) | FINAL (ug/mL) |
| 187 Total Benzofluoranthenes | 252 | 24.095 | 24.134 | (0.975) | 147811 | 1.05456 | 1.055 |
| 120 2,3,4,6-Tetrachlorophenol | 232 | 14.989 | 14.981 | (1.053) | 10135 | 0.34010 | 0.3401 |

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 01-MAR-2023
 Lab File ID: NT1423022825.D Calibration Time: 13:39
 Lab Smp Id: SLB0374-LCV2
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: JGR
 Method File: \\target\share\chem3\nt14.i\20230228.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|--------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 125853 | 62927 | 251706 | 130297 | 3.53 |
| 27 Naphthalene-d8 | 454961 | 227481 | 909922 | 458645 | 0.81 |
| 42 Acenaphthene-d10 | 273779 | 136890 | 547558 | 264644 | -3.34 |
| 59 Phenanthrene-d10 | 520384 | 260192 | 1040768 | 503378 | -3.27 |
| 69 Chrysene-d12 | 399183 | 199592 | 798366 | 366987 | -8.07 |
| 134 Di-n-octylphthala | 602810 | 301405 | 1205620 | 534079 | -11.40 |
| 77 Perylene-d12 | 478887 | 239444 | 957774 | 433681 | -9.44 |

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

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

REVIEW SUMMARY FOR FILE - NT1423022825.D

Lab ID: SLB0374-LCV2
nt14.i, ABN.m, 01-MAR-2023 16:04

RT CO-ELUTION COMPOUNDS

13.915 Acenaphthylene and 2,6-Dinitrotoluene

Quant Method: ICAL

RRT CHECK

| RRT | CCV RRT | DELTA | COMPOUND |
|-------|---------|--------|--------------|
| 1.001 | 0.973 | 0.0276 | Benzoic acid |

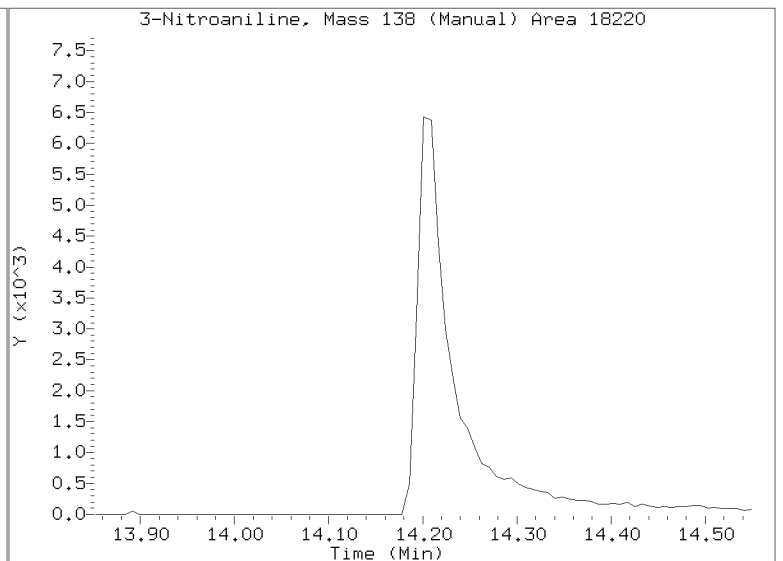
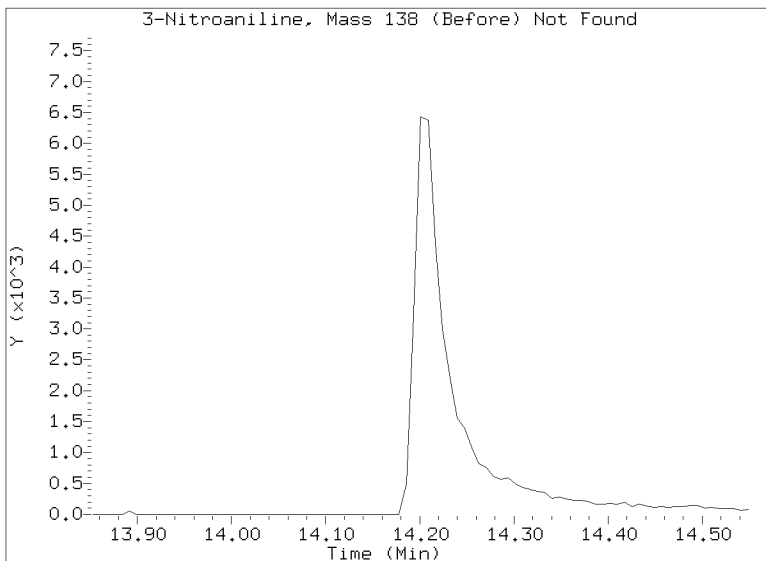
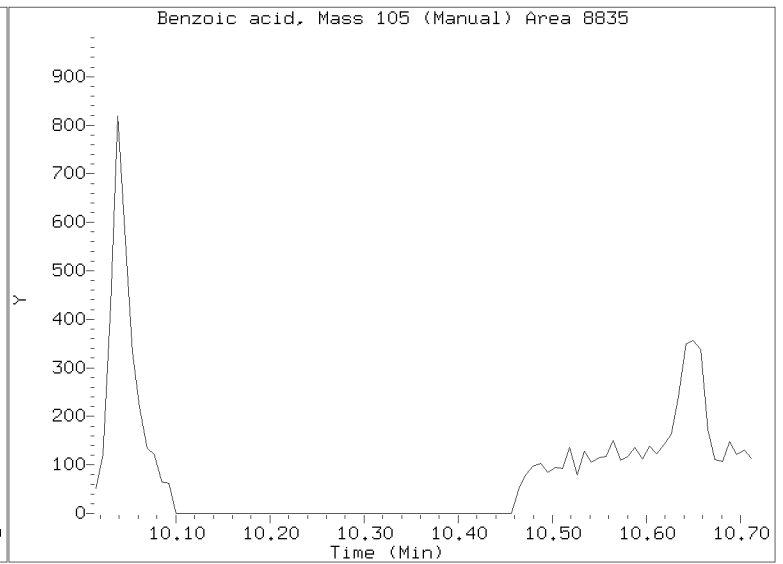
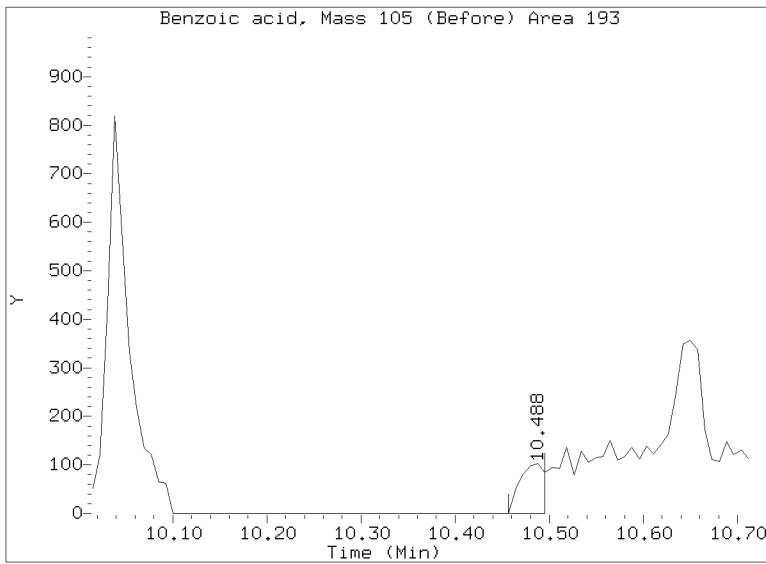
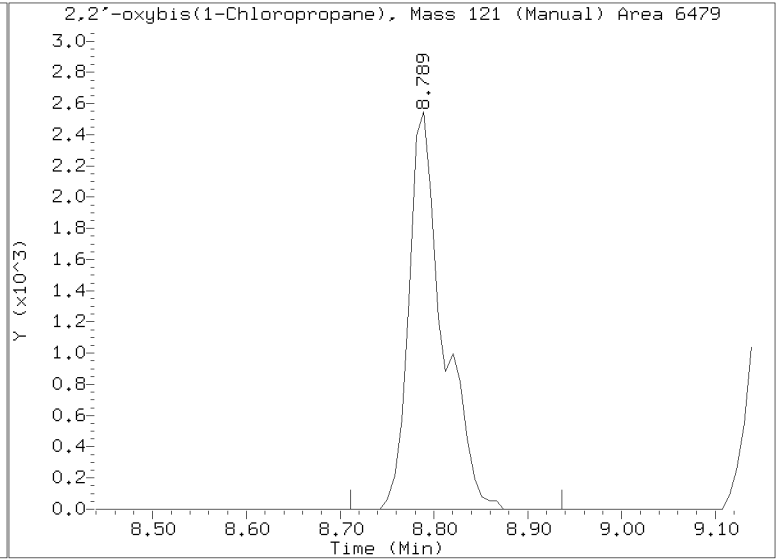
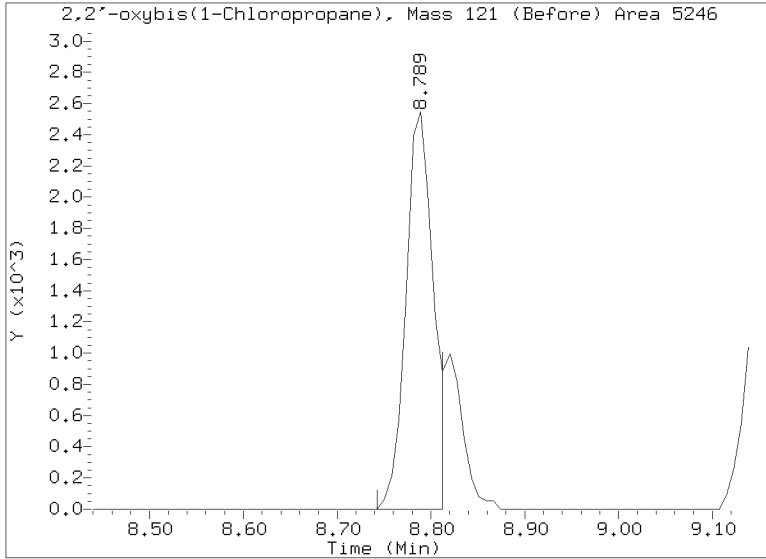
RRT check based on Ccal File: NT1423022821.D

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

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

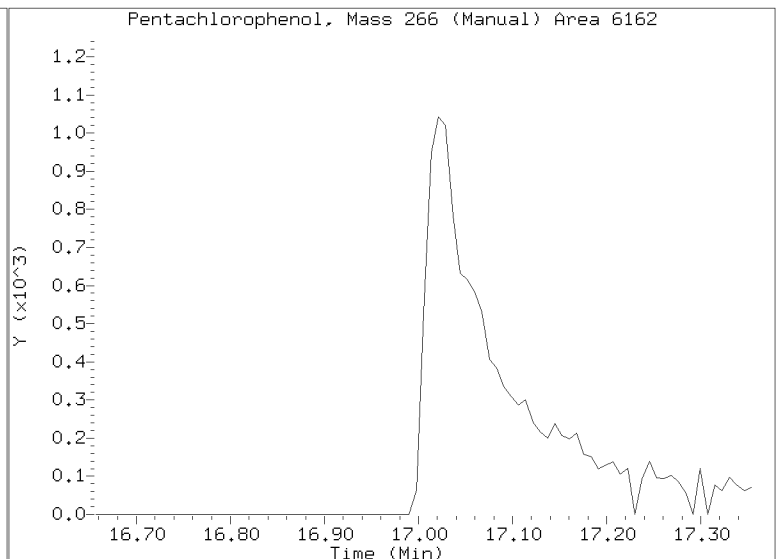
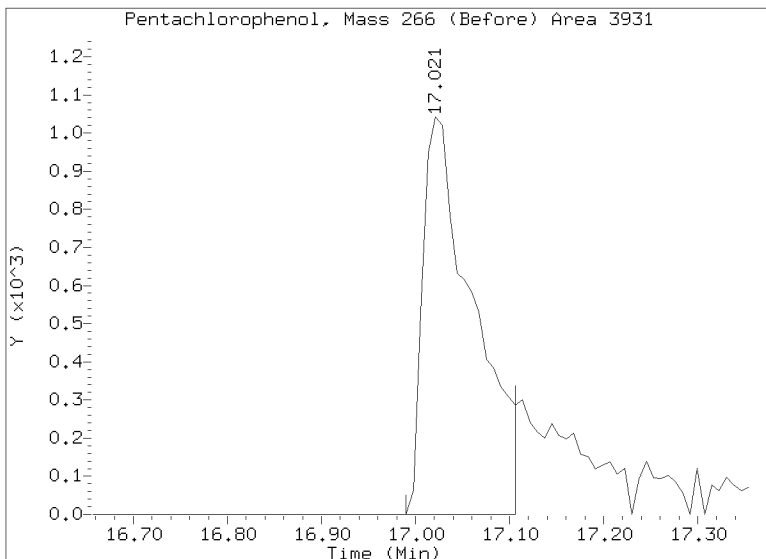
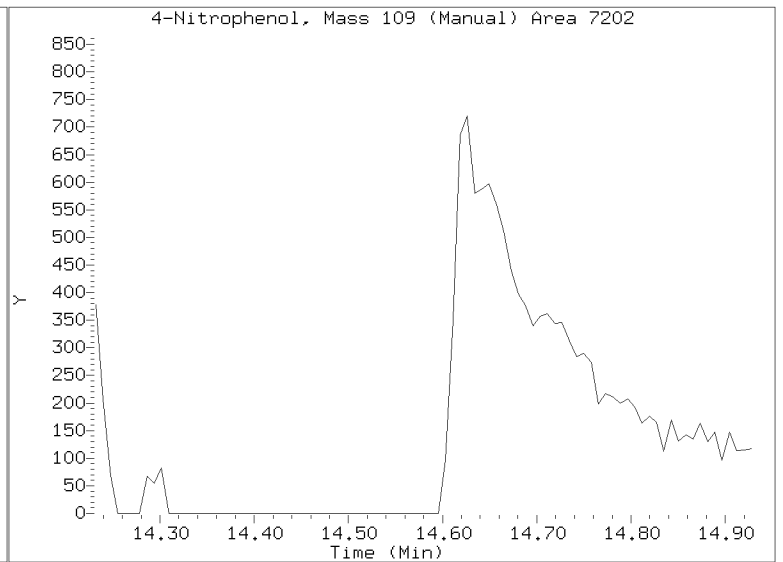
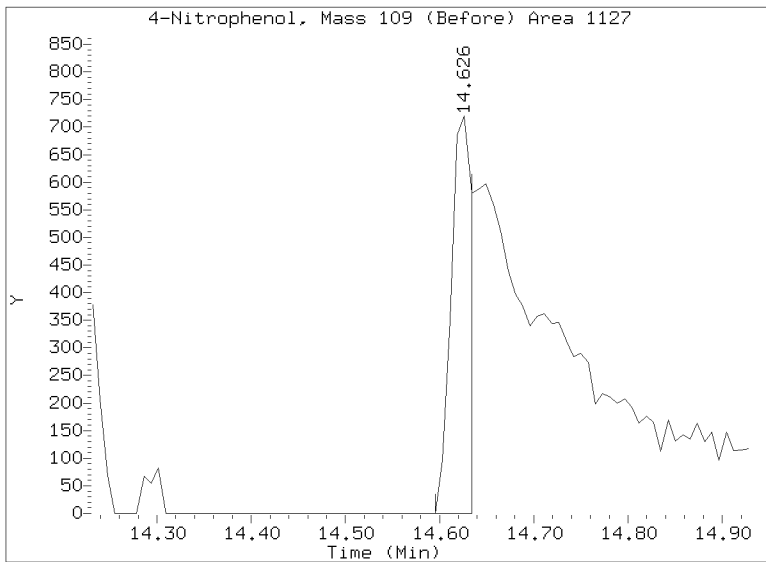
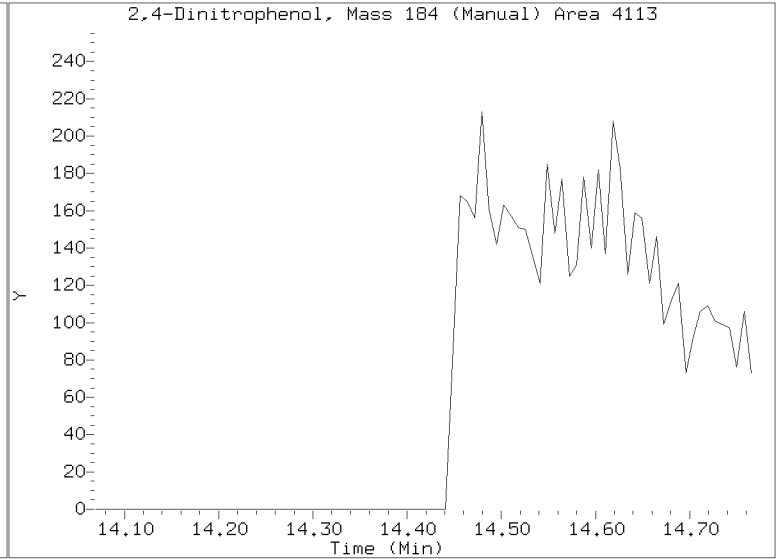
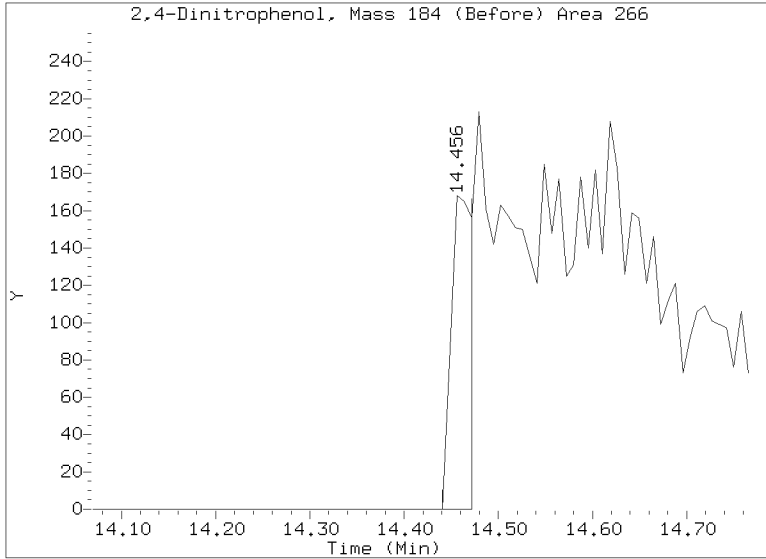
Quant Ion Manual Peak Adjustment Report

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Injection Date: 01-MAR-2023 16:04
Lab ID:SLB0374-LCV2 Client ID:
Report Date: 03/11/2023 09:11



Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230228.b/NT1423022825.D
Injection Date: 01-MAR-2023 16:04
Lab ID:SLB0374-LCV2 Client ID:
Report Date: 03/11/2023 09:11





**LOW-CONCENTRATION
CALIBRATION VERIFICATION
EPA 8270E**

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Calibration: GC00033

Laboratory ID: SLB0374-LCV3

Sequence: SLB0374

Standard ID: K011105

| ANALYTE | EXPECTED (ug/mL) | FOUND (ug/mL) | % DRIFT | QC LIMIT |
|------------------------------|---------------------|------------------|---------|----------|
| Phenol | 0.20000 | 0.2 | 16.5 | 50.00 |
| bis(2-chloroethyl) ether | 0.20000 | 0.2 | 11.5 | 50.00 |
| 2-Chlorophenol | 0.20000 | 0.2 | -9.4 | 50.00 |
| 1,3-Dichlorobenzene | 0.20000 | 0.2 | 4.7 | 50.00 |
| 1,4-Dichlorobenzene | 0.20000 | 0.2 | 6.9 | 50.00 |
| 1,2-Dichlorobenzene | 0.20000 | 0.2 | 6.5 | 50.00 |
| Benzyl Alcohol | 0.20000 | 0.09 | -52.9 * | 50.00 |
| 2,2'-Oxybis(1-chloropropane) | 0.20000 | 0.2 | 5.0 | 50.00 |
| 2-Methylphenol | 0.20000 | 0.2 | -14.1 | 50.00 |
| Hexachloroethane | 0.20000 | 0.1 | -26.4 | 50.00 |
| N-Nitroso-di-n-Propylamine | 0.20000 | 0.2 | 4.2 | 50.00 |
| 4-Methylphenol | 0.20000 | 0.1 | -44.1 | 50.00 |
| Nitrobenzene | 0.20000 | 0.2 | -0.06 | 50.00 |
| Isophorone | 0.20000 | 0.2 | -21.1 | 50.00 |
| 2-Nitrophenol | 0.20000 | 0.2 | -22.7 | 50.00 |
| 2,4-Dimethylphenol | 0.40000 | 0.4 | 0.7 | 50.00 |
| Bis(2-Chloroethoxy)methane | 0.20000 | 0.2 | -8.3 | 50.00 |
| 2,4-Dichlorophenol | 0.40000 | 0.3 | -20.2 | 50.00 |
| 1,2,4-Trichlorobenzene | 0.20000 | 0.2 | -0.3 | 50.00 |
| Naphthalene | 0.20000 | 0.2 | 7.8 | 50.00 |
| Benzoic acid | 0.80000 | 0.08 | -89.8 * | 50.00 |
| 4-Chloroaniline | 0.40000 | 0.3 | -13.1 | 50.00 |
| Hexachlorobutadiene | 0.20000 | 0.2 | -11.1 | 50.00 |
| 4-Chloro-3-Methylphenol | 0.40000 | 0.3 | -18.6 | 50.00 |
| 2-Methylnaphthalene | 0.20000 | 0.2 | -3.7 | 50.00 |
| Hexachlorocyclopentadiene | 0.40000 | 0.003 | -99.3 * | 50.00 |
| 2,4,6-Trichlorophenol | 0.40000 | 0.3 | -21.0 | 50.00 |
| 2,4,5-Trichlorophenol | 0.40000 | 0.3 | -13.5 | 50.00 |
| 2-Chloronaphthalene | 0.20000 | 0.2 | -1.5 | 50.00 |



**LOW-CONCENTRATION
CALIBRATION VERIFICATION
EPA 8270E**

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Calibration: GC00033

Laboratory ID: SLB0374-LCV3

Sequence: SLB0374

Standard ID: K011105

| | | | | |
|----------------------------|---------|-----|---------|-------|
| 2-Nitroaniline | 0.40000 | 0.3 | -17.3 | 50.00 |
| Acenaphthylene | 0.20000 | 0.2 | 10.3 | 50.00 |
| Dimethylphthalate | 0.20000 | 0.2 | 4.8 | 50.00 |
| 2,6-Dinitrotoluene | 0.40000 | 0.4 | -9.3 | 50.00 |
| Acenaphthene | 0.20000 | 0.2 | 6.2 | 50.00 |
| 3-Nitroaniline | 0.40000 | 0.3 | -26.8 | 50.00 |
| 2,4-Dinitrophenol | 0.80000 | 0.0 | * | 50.00 |
| Dibenzofuran | 0.20000 | 0.2 | -1.0 | 50.00 |
| 4-Nitrophenol | 0.40000 | 0.2 | -48.1 | 50.00 |
| 2,4-Dinitrotoluene | 0.40000 | 0.3 | -33.5 | 50.00 |
| Fluorene | 0.20000 | 0.2 | 6.4 | 50.00 |
| 4-Chlorophenylphenyl ether | 0.20000 | 0.2 | -1.7 | 50.00 |
| Diethyl phthalate | 0.20000 | 0.2 | 6.1 | 50.00 |
| 4-Nitroaniline | 0.40000 | 0.3 | -32.5 | 50.00 |
| 4,6-Dinitro-2-methylphenol | 0.80000 | 0.1 | -82.6 * | 50.00 |
| N-Nitrosodiphenylamine | 0.20000 | 0.2 | 5.4 | 50.00 |
| 4-Bromophenyl phenyl ether | 0.20000 | 0.2 | -2.7 | 50.00 |
| Hexachlorobenzene | 0.20000 | 0.2 | 6.5 | 50.00 |
| Pentachlorophenol | 0.40000 | 0.1 | -71.9 * | 50.00 |
| Phenanthrene | 0.20000 | 0.2 | 0.2 | 50.00 |
| Anthracene | 0.20000 | 0.2 | 0.5 | 50.00 |
| Carbazole | 0.20000 | 0.2 | -8.3 | 50.00 |
| Di-n-Butylphthalate | 0.20000 | 0.2 | -8.5 | 50.00 |
| Fluoranthene | 0.20000 | 0.2 | -8.2 | 50.00 |
| Pyrene | 0.20000 | 0.2 | -8.3 | 50.00 |
| Butylbenzylphthalate | 0.20000 | 0.2 | -0.8 | 50.00 |
| Benzo(a)anthracene | 0.20000 | 0.2 | 10.6 | 50.00 |
| 3,3'-Dichlorobenzidine | 0.60000 | 0.7 | 19.9 | 50.00 |
| Chrysene | 0.20000 | 0.2 | 7.5 | 50.00 |
| bis(2-Ethylhexyl)phthalate | 0.20000 | 0.2 | -11.5 | 50.00 |
| Di-n-Octylphthalate | 0.20000 | 0.2 | 1.4 | 50.00 |



**LOW-CONCENTRATION
CALIBRATION VERIFICATION
EPA 8270E**

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Calibration: GC00033

Laboratory ID: SLB0374-LCV3

Sequence: SLB0374

Standard ID: K011105

| | | | | |
|---------------------------|---------|-------|---------|-------|
| Benzofluoranthenes, Total | 0.40000 | 0.5 | 17.8 | 50.00 |
| Benzo(a)pyrene | 0.20000 | 0.2 | 6.4 | 50.00 |
| Indeno(1,2,3-cd)pyrene | 0.20000 | 0.09 | -54.9 * | 50.00 |
| Dibenzo(a,h)anthracene | 0.20000 | 0.1 | -50.7 * | 50.00 |
| Benzo(g,h,i)perylene | 0.20000 | 0.07 | -64.3 * | 50.00 |
| 1-Methylnaphthalene | 0.20000 | 0.2 | -2.7 | 50.00 |
| 2-Fluorophenol | 0.30000 | 0.307 | 2.5 | 50.00 |
| Phenol-d5 | 0.30000 | 0.283 | -5.6 | 50.00 |
| 2-Chlorophenol-d4 | 0.30000 | 0.279 | -7.1 | 50.00 |
| 1,2-Dichlorobenzene-d4 | 0.20000 | 0.192 | -4.1 | 50.00 |
| Nitrobenzene-d5 | 0.20000 | 0.195 | -2.7 | 50.00 |
| 2-Fluorobiphenyl | 0.20000 | 0.207 | 3.6 | 50.00 |
| 2,4,6-Tribromophenol | 0.30000 | 0.203 | -32.2 | 50.00 |
| p-Terphenyl-d14 | 0.20000 | 0.181 | -9.6 | 50.00 |

* Values outside of QC limits

Data File: \\target\share\chem3\nt14,1\20230228,16\NT1423022838.D

Date: 01-MAR-2023 23:52

Client ID:

Sample Info: SLB0374-LCV3

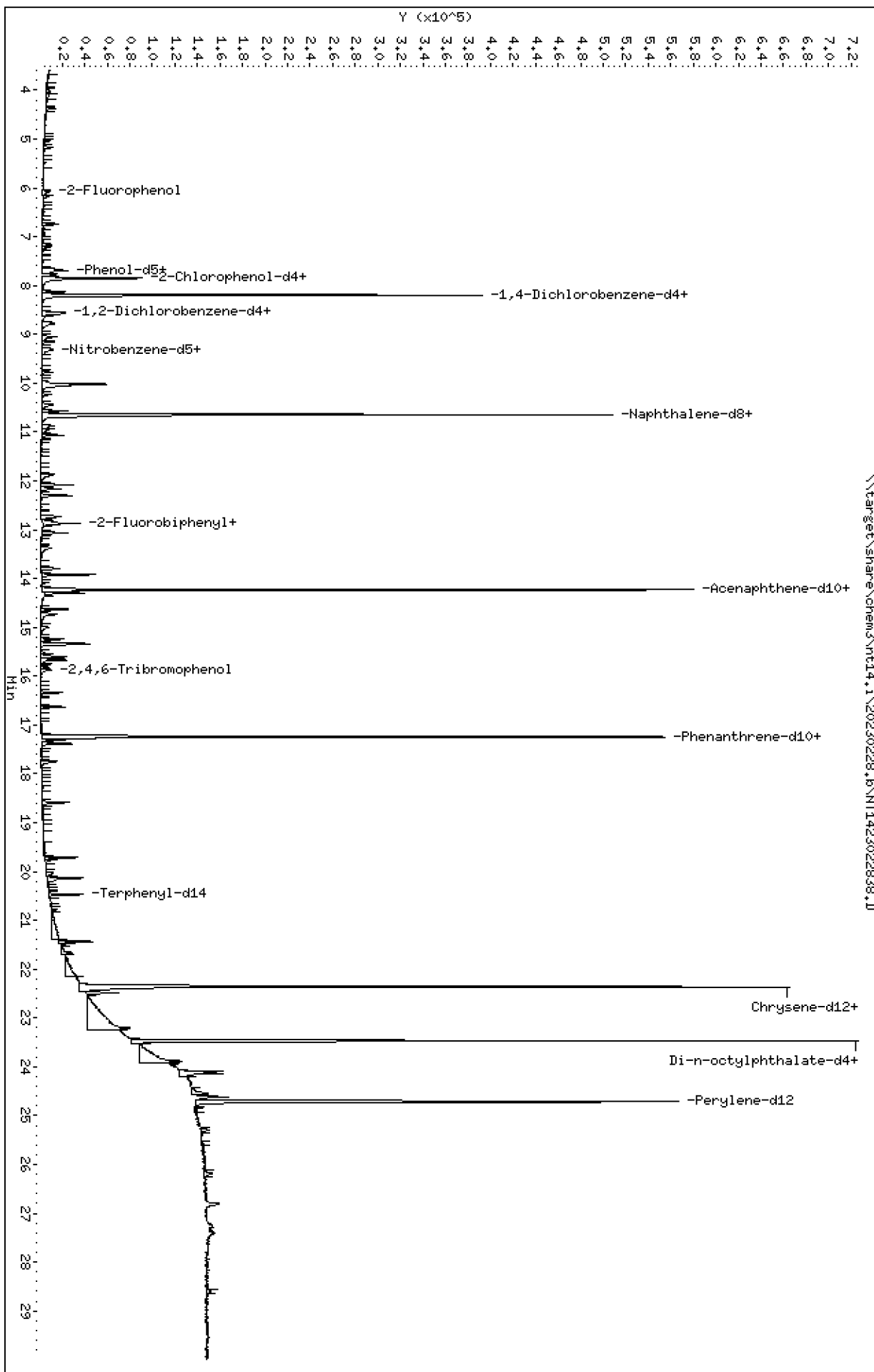
Column phase: ZB-5msi

Instrument: nt14,1

Operator: JGR

Column diameter: 0.25

Page 1



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

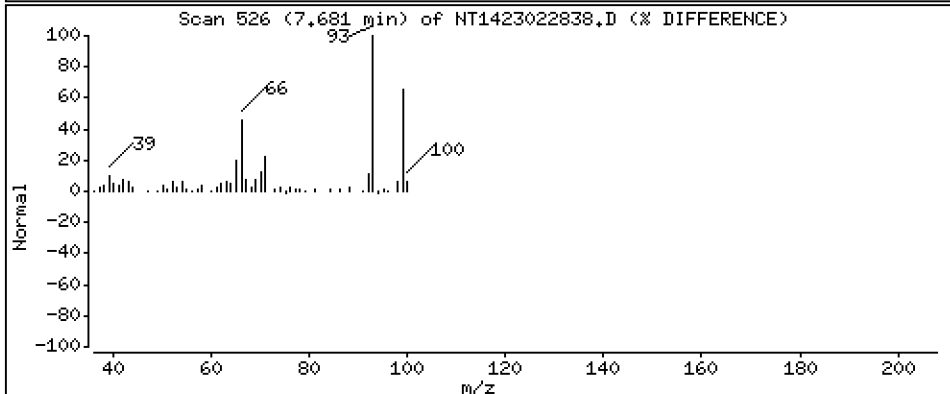
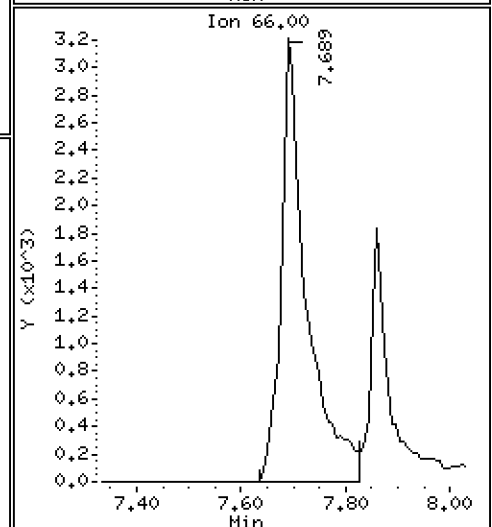
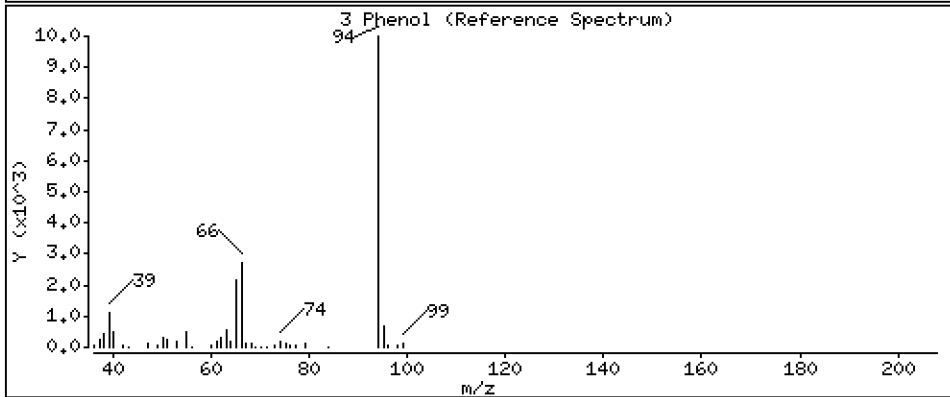
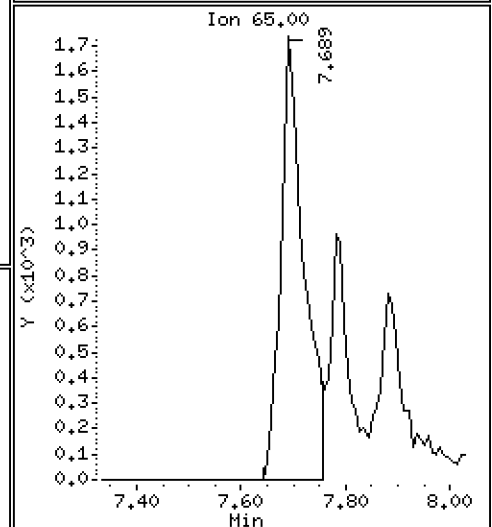
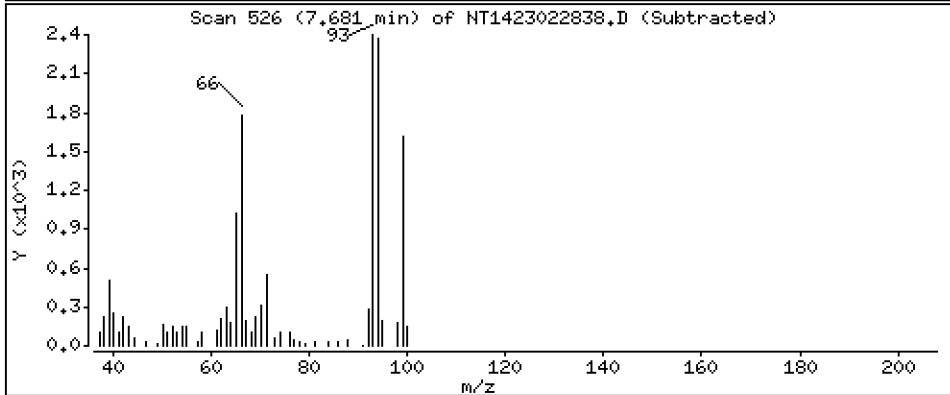
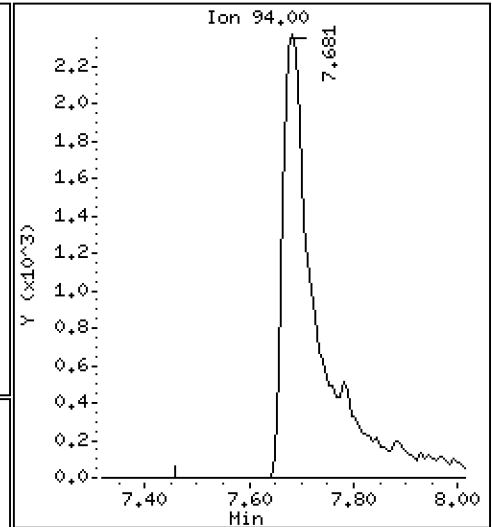
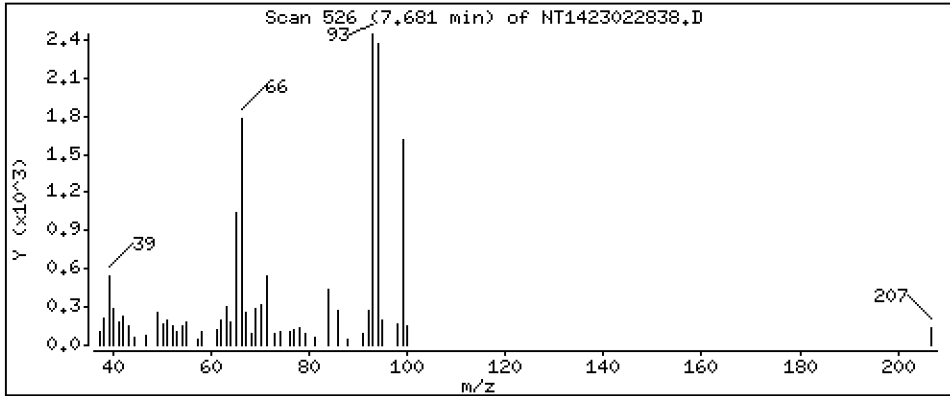
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 0,2329 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

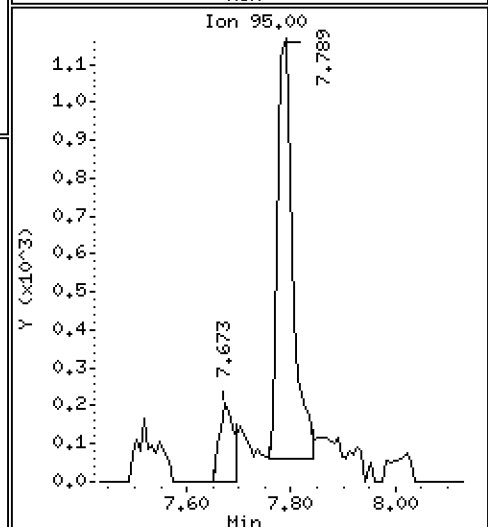
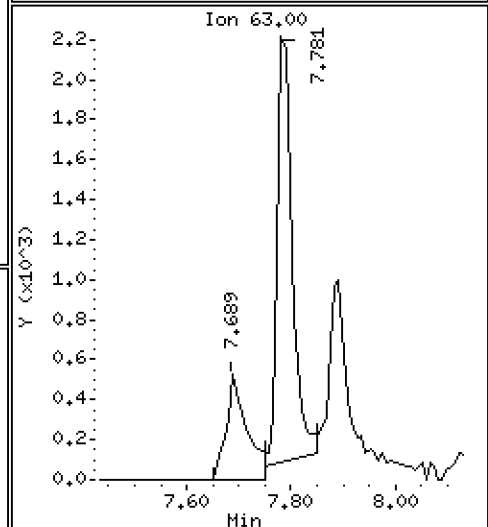
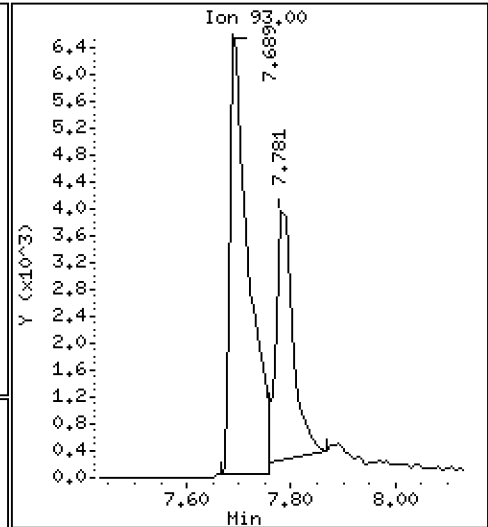
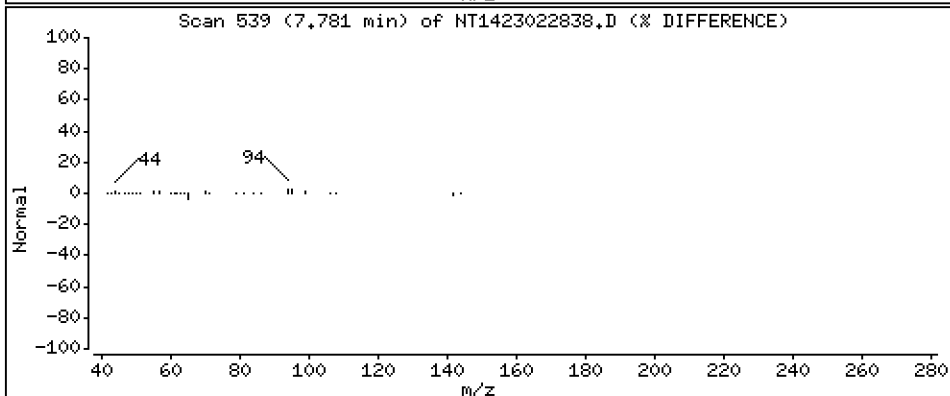
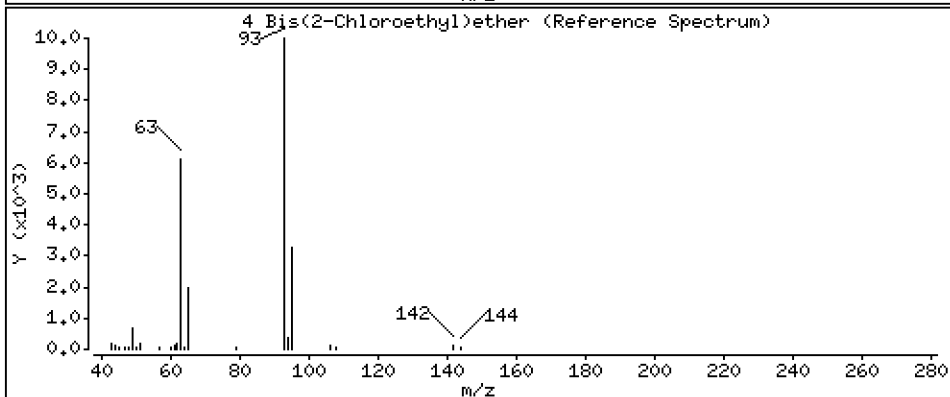
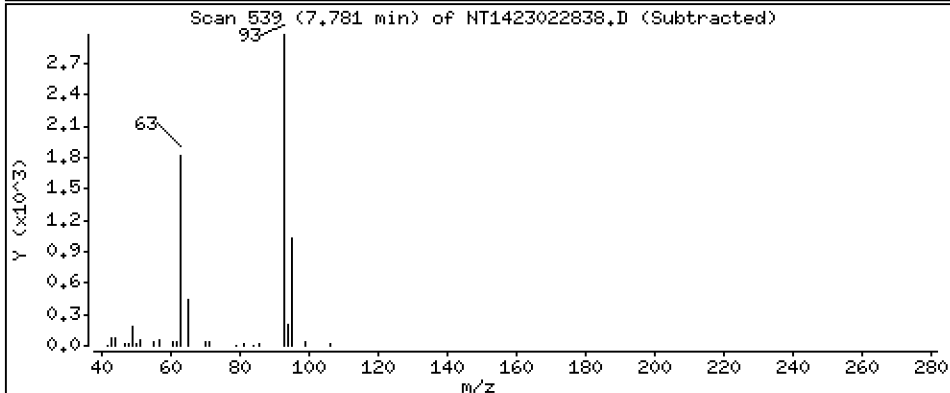
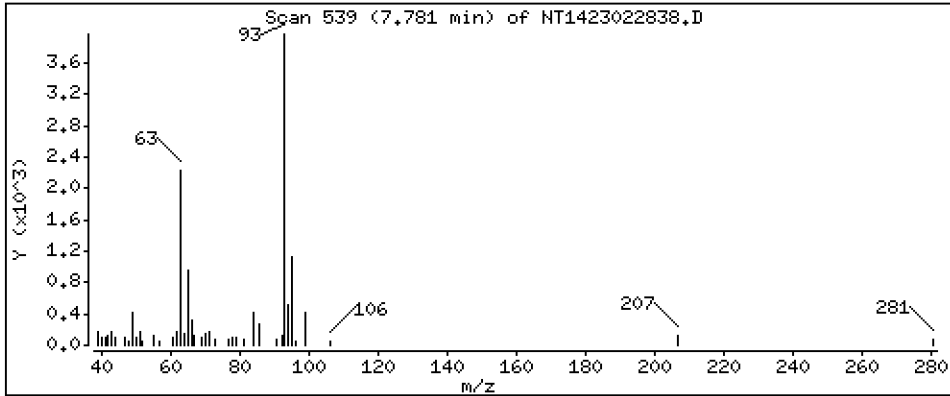
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

4 Bis(2-Chloroethyl)ether

Concentration: 0,2229 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

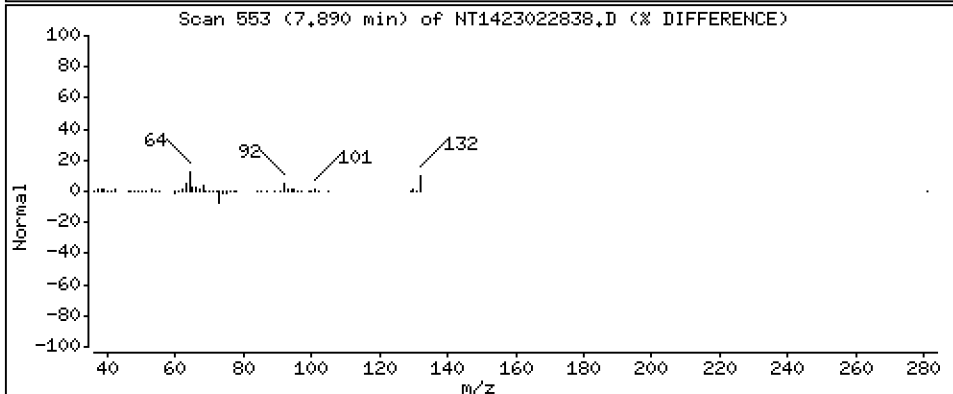
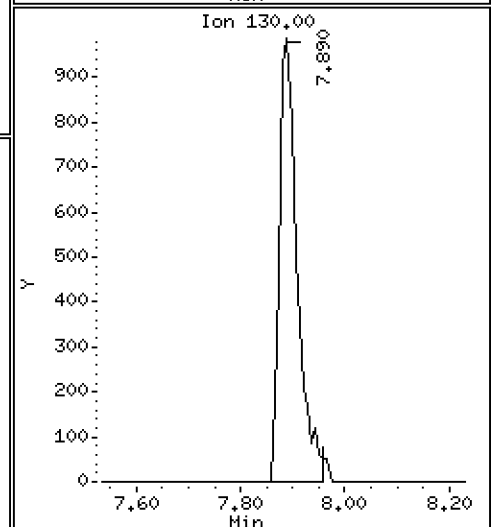
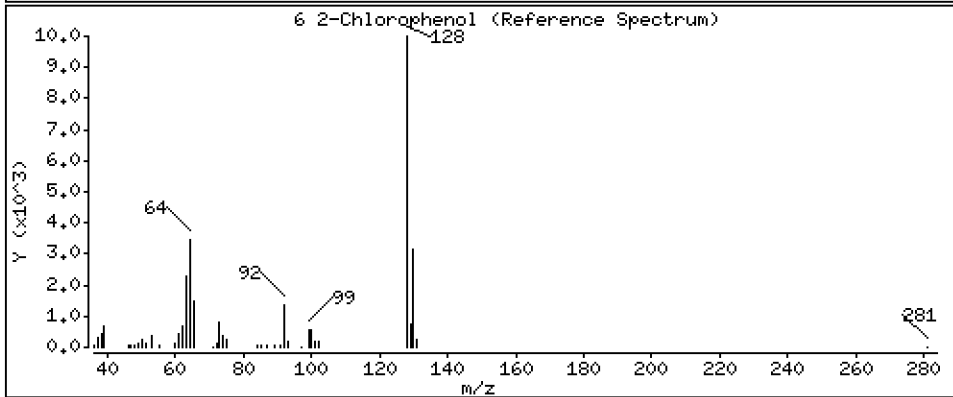
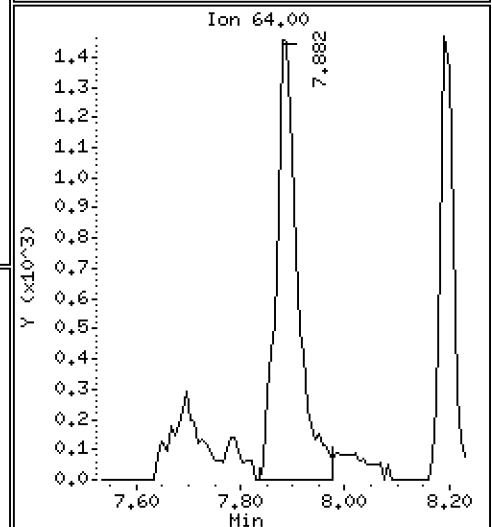
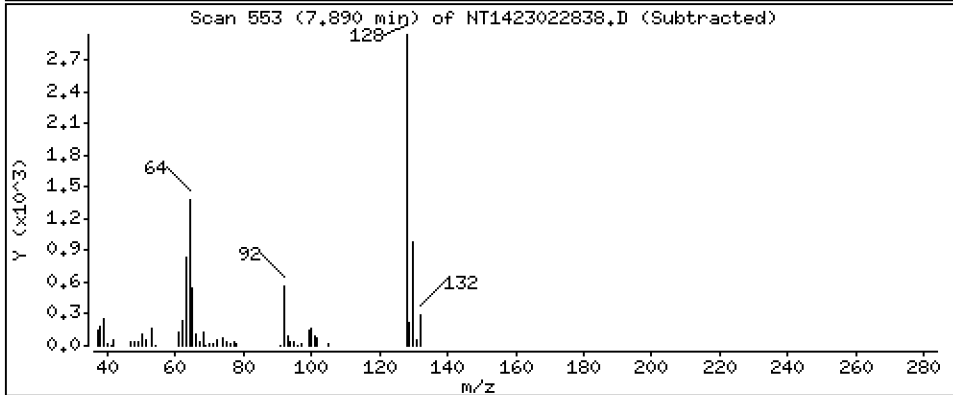
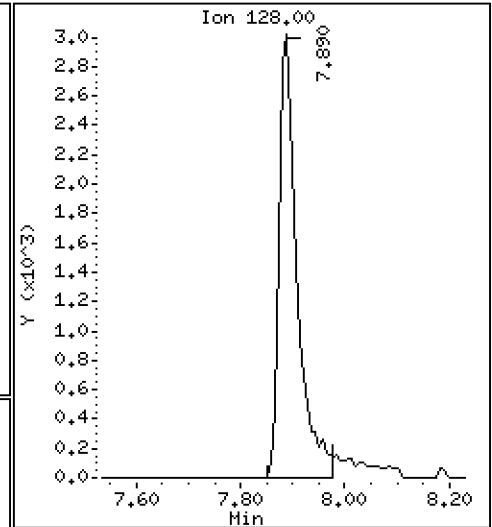
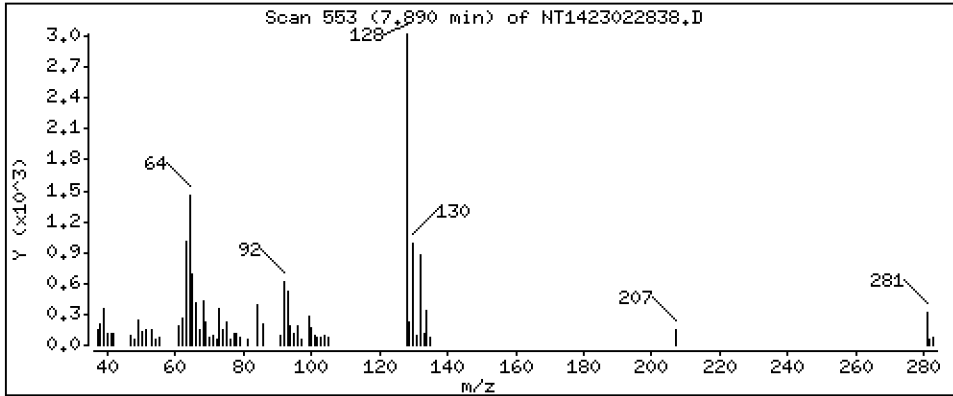
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 0,1812 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

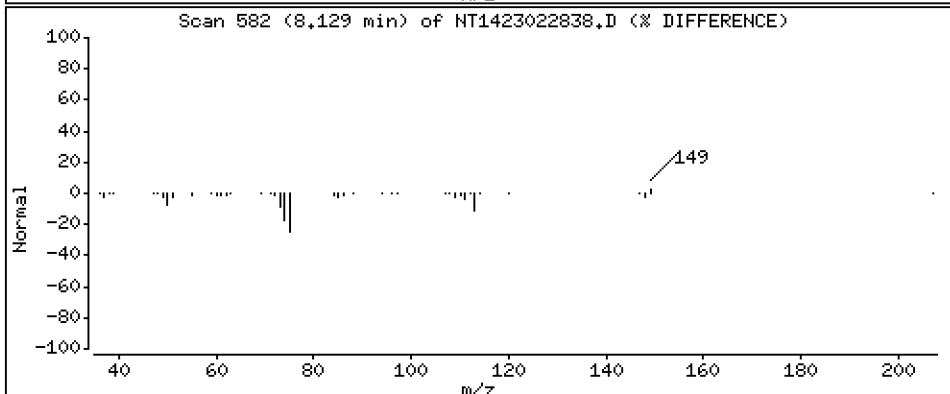
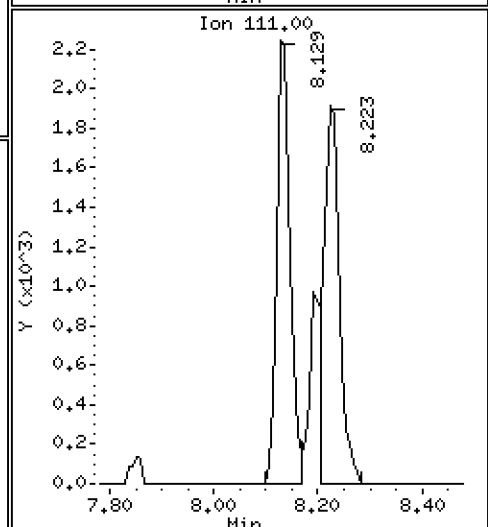
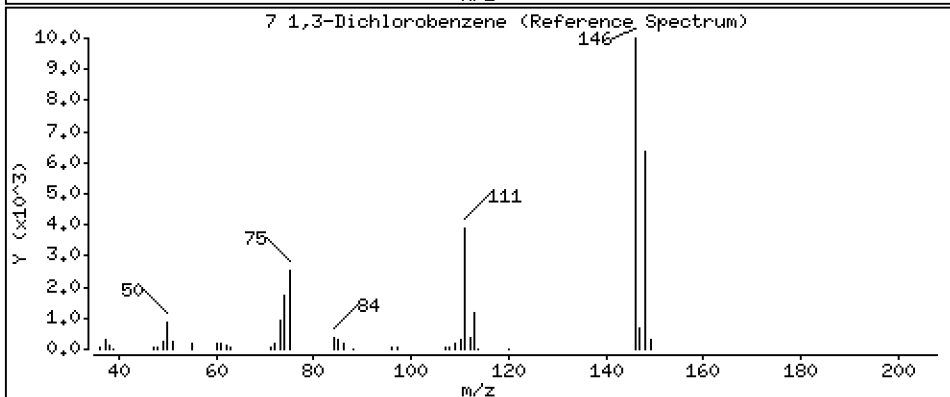
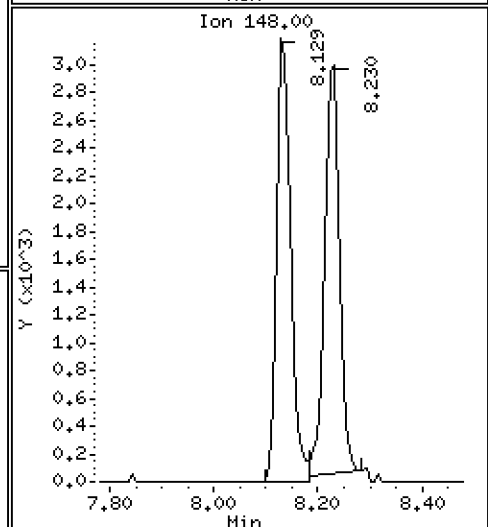
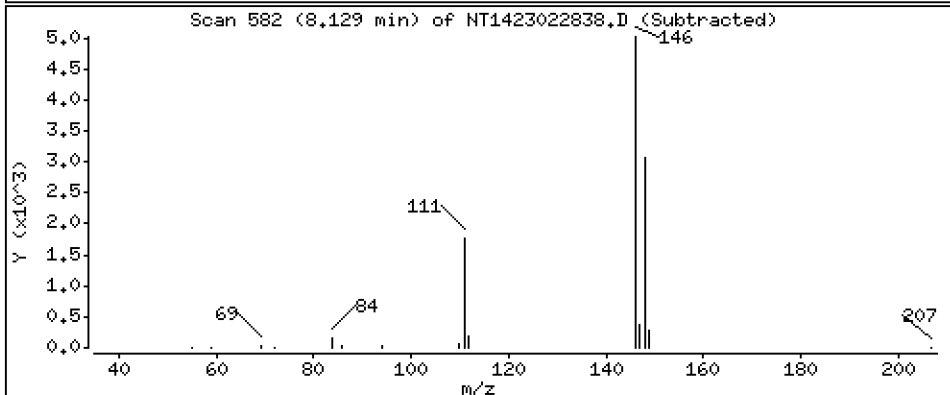
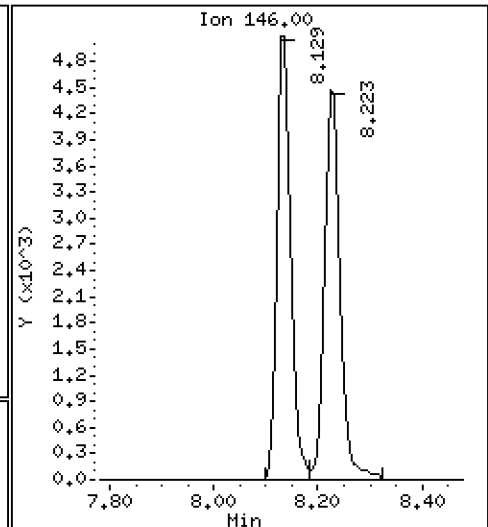
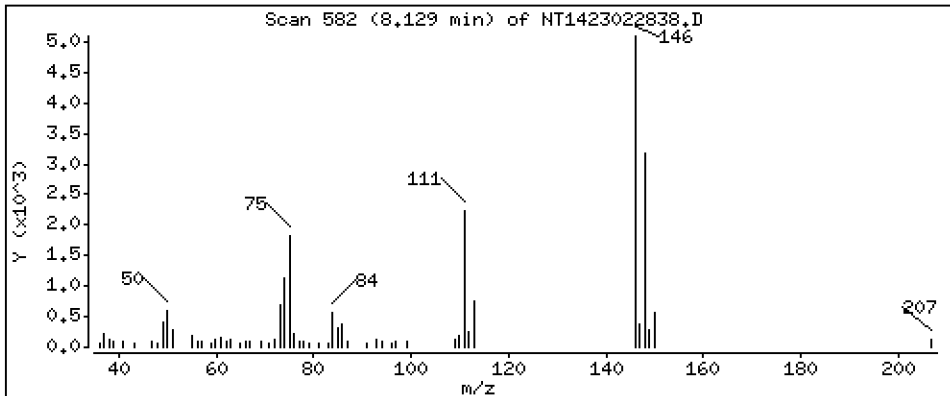
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

7 1,3-Dichlorobenzene

Concentration: 0,2093 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

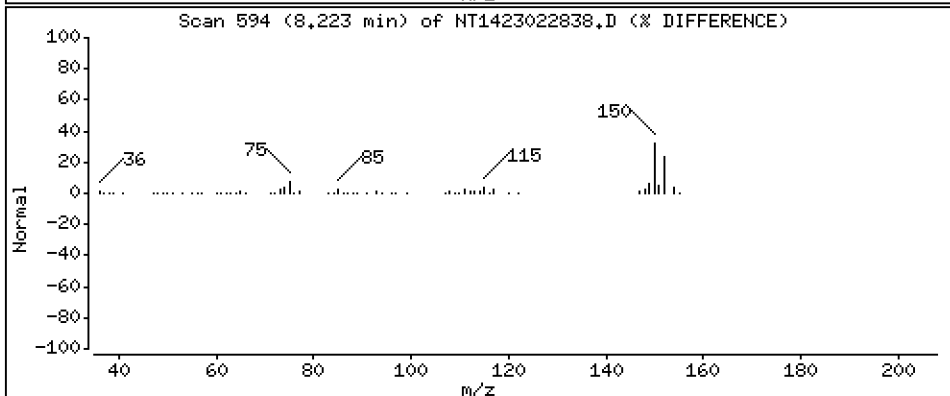
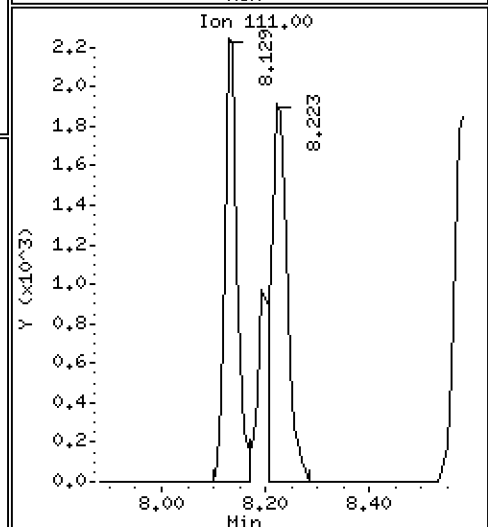
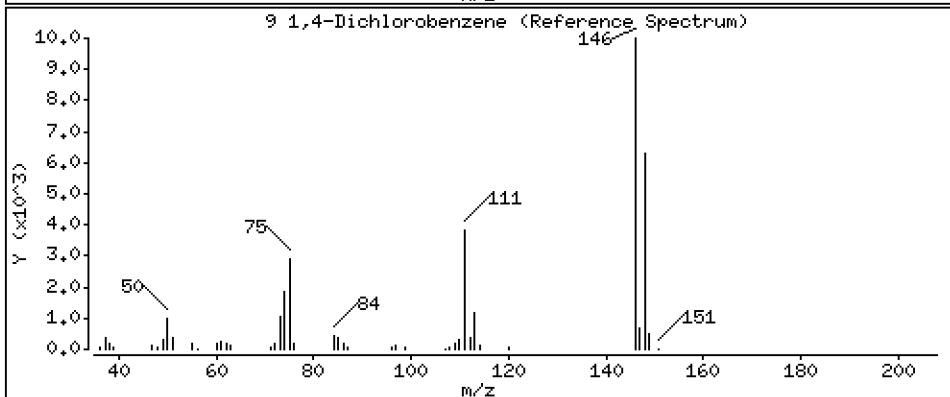
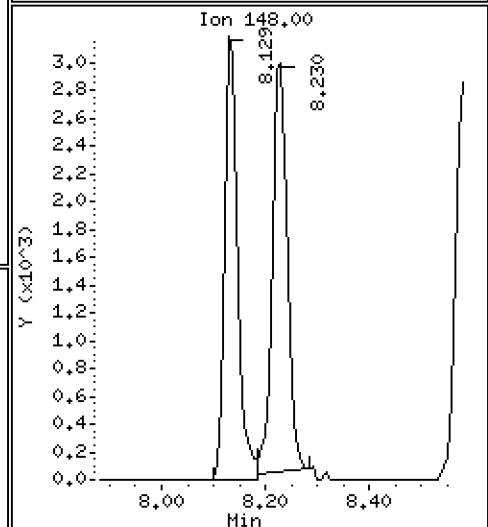
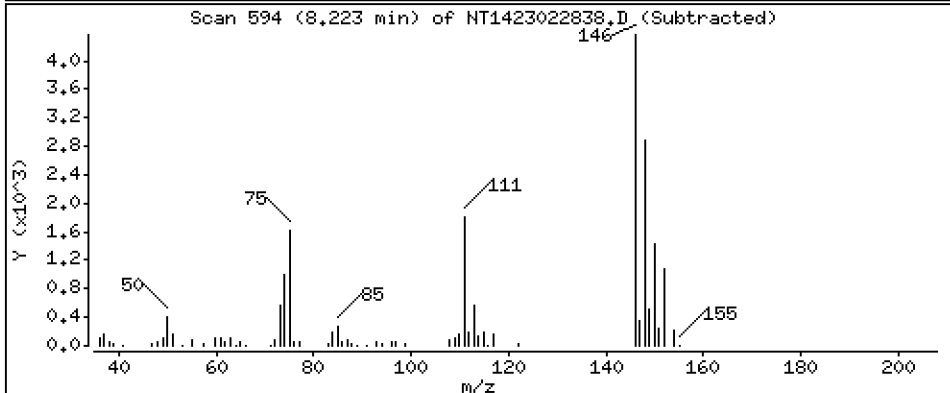
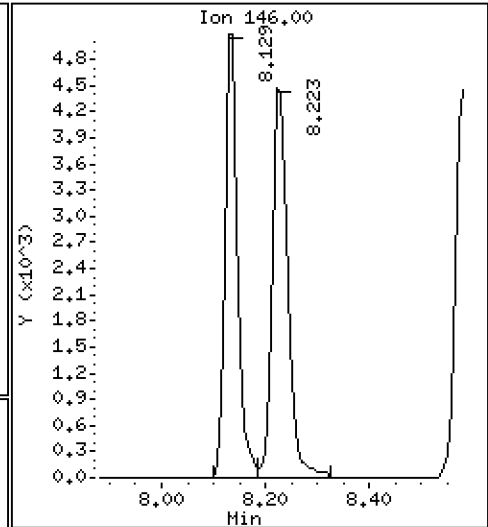
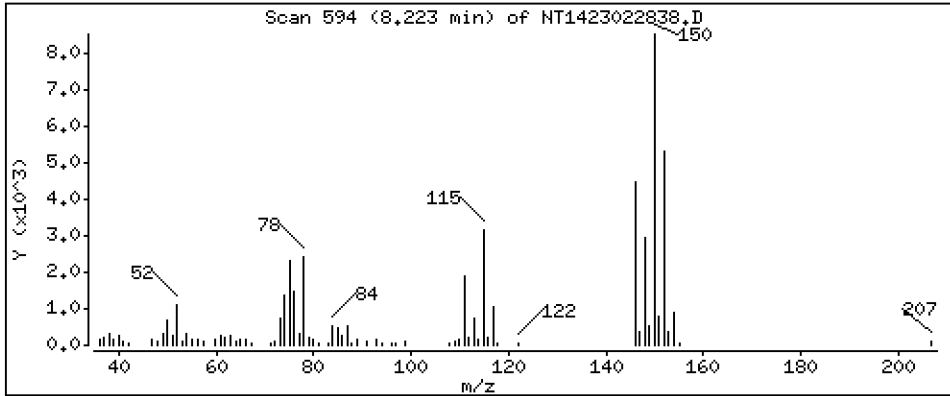
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 0,2139 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

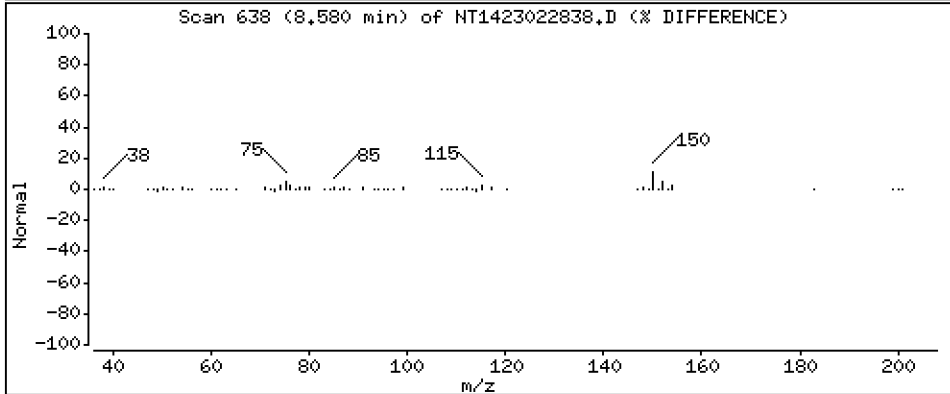
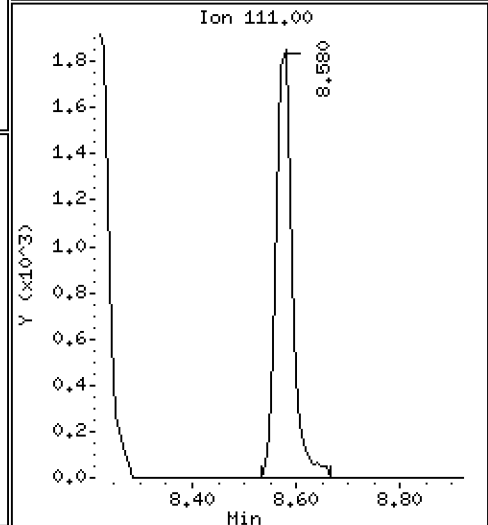
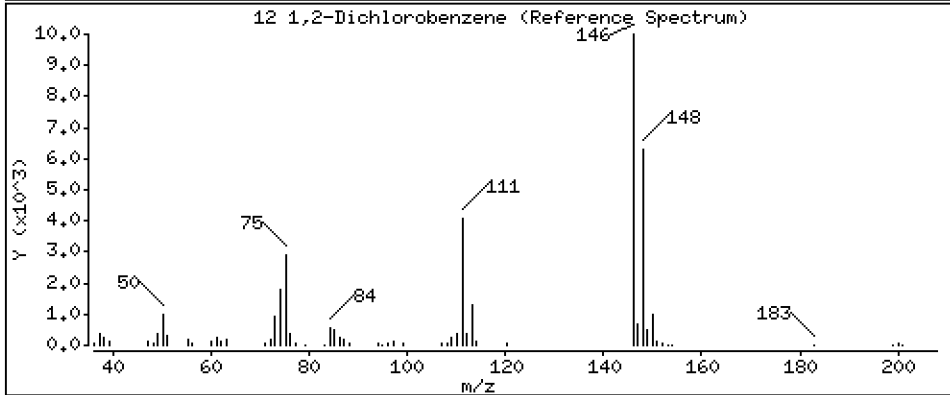
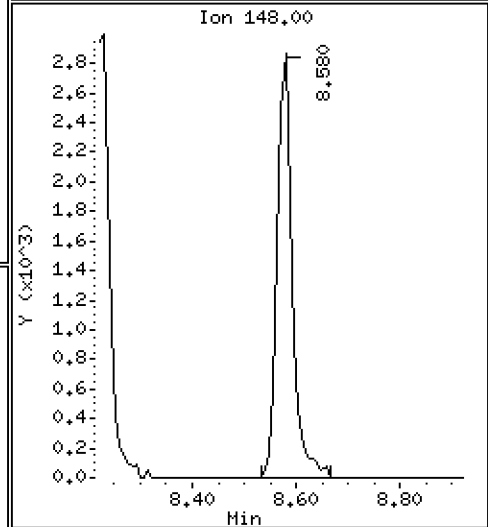
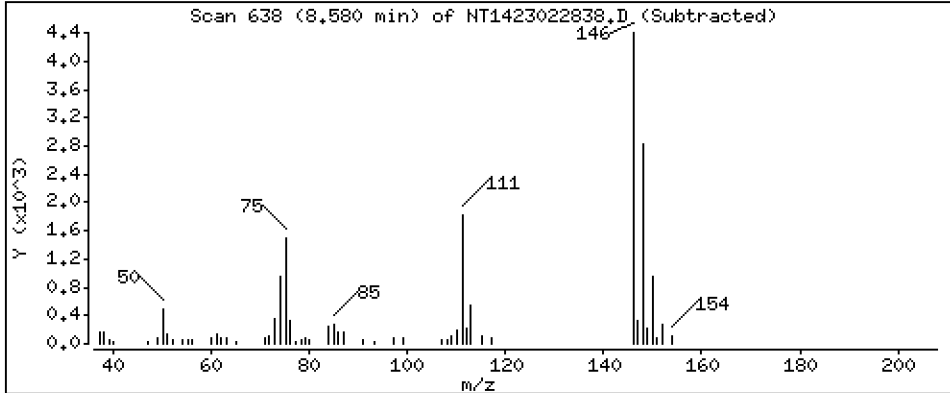
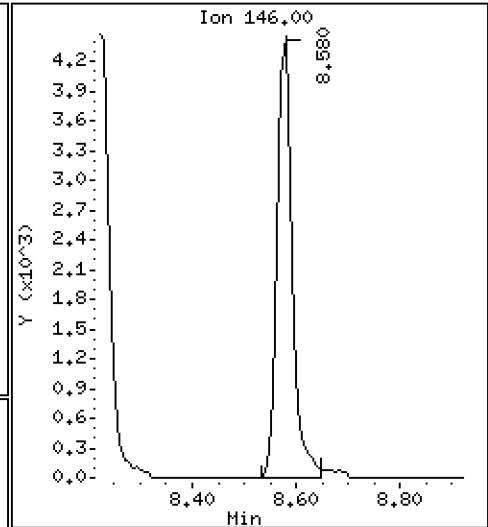
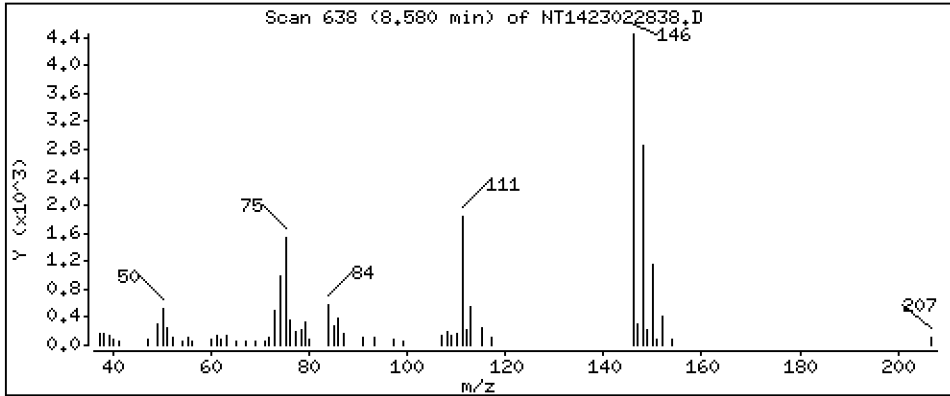
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

12 1,2-Dichlorobenzene

Concentration: 0,2130 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

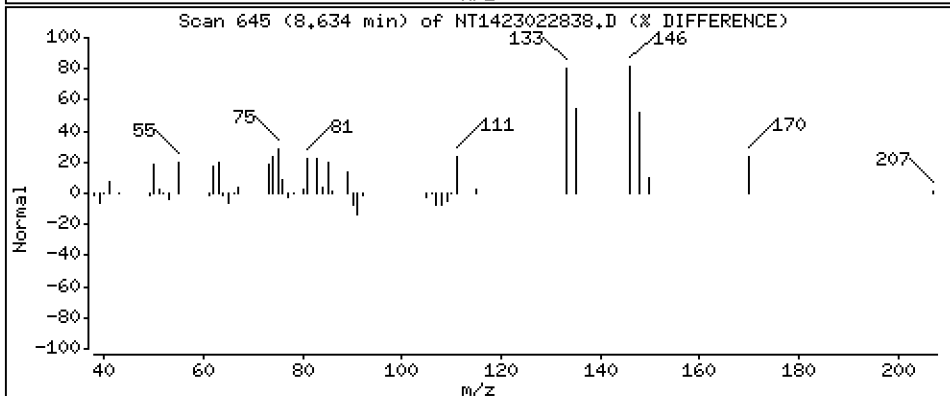
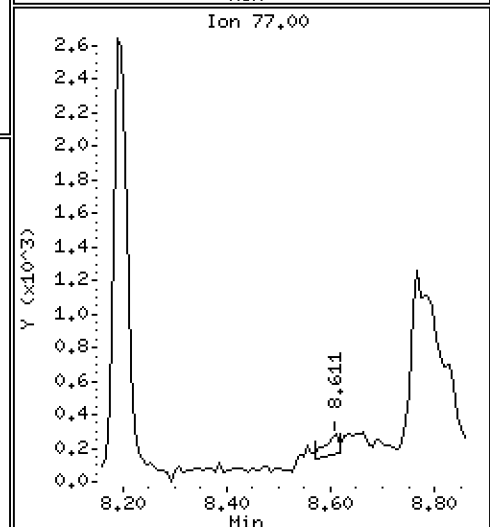
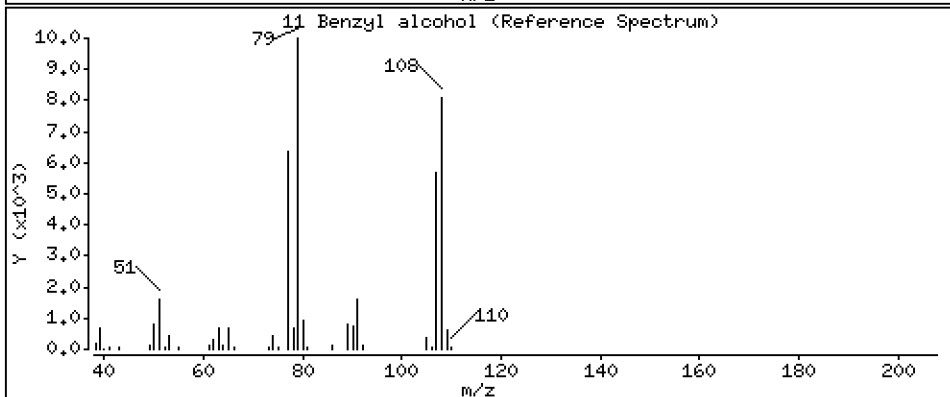
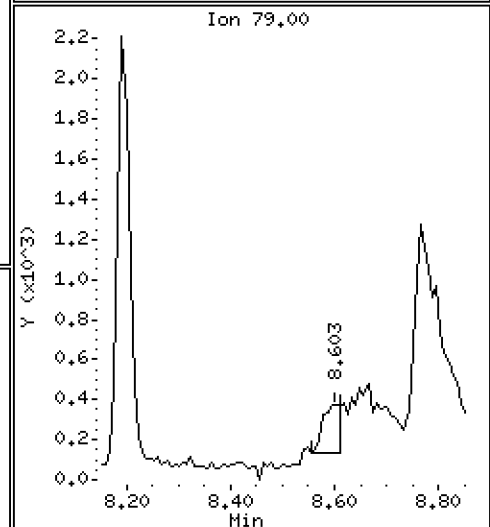
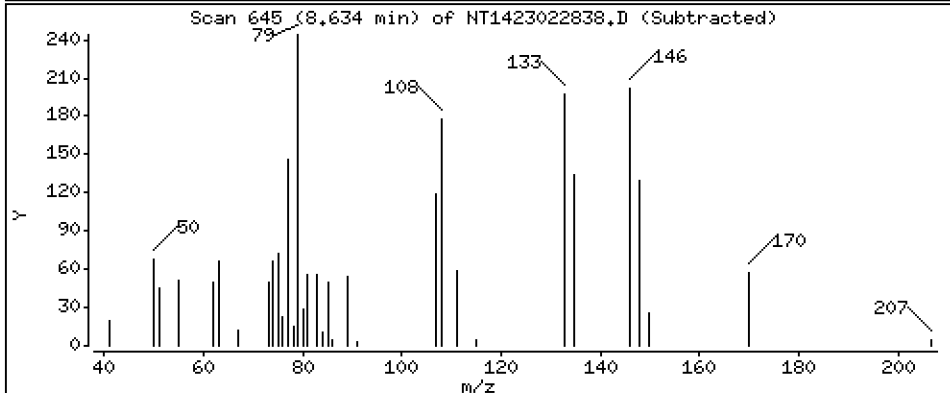
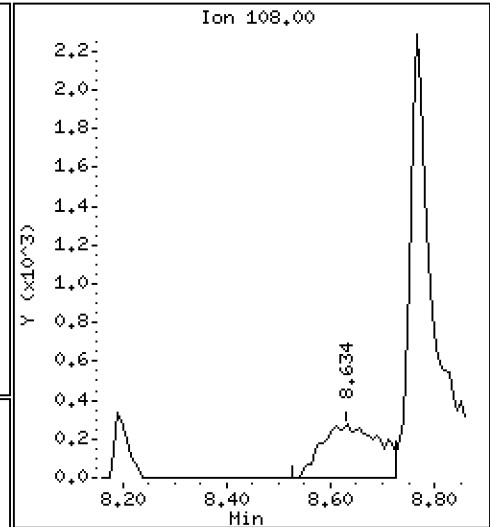
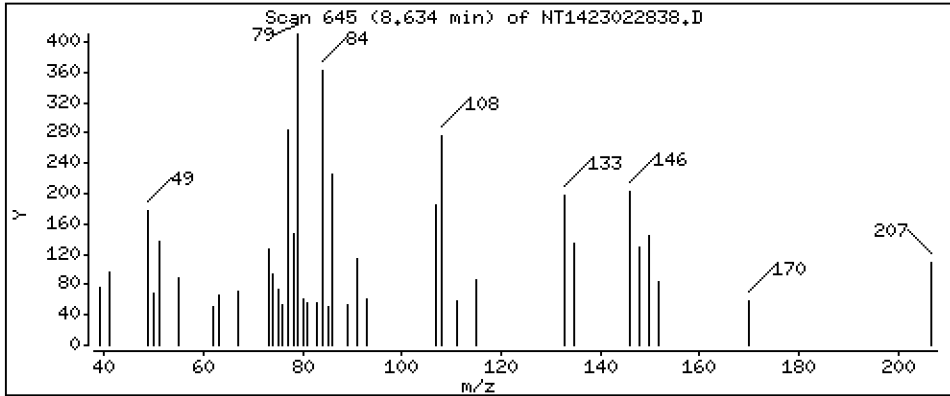
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 0.09424 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

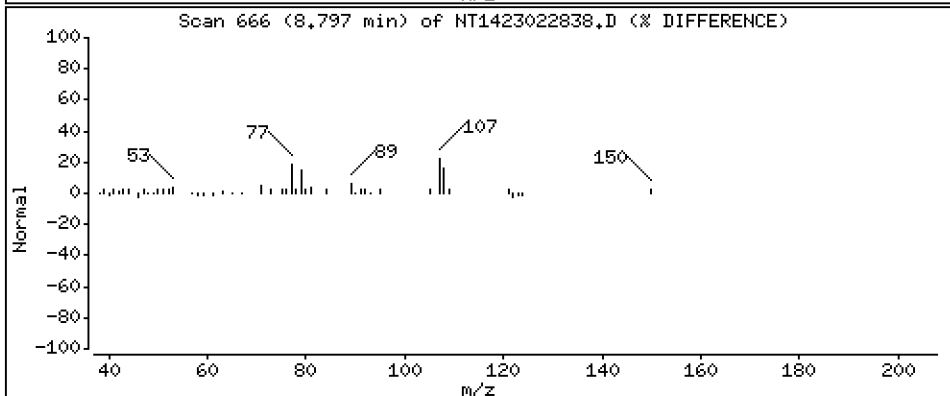
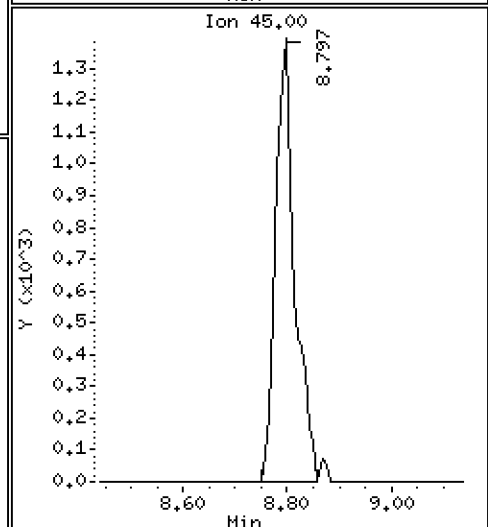
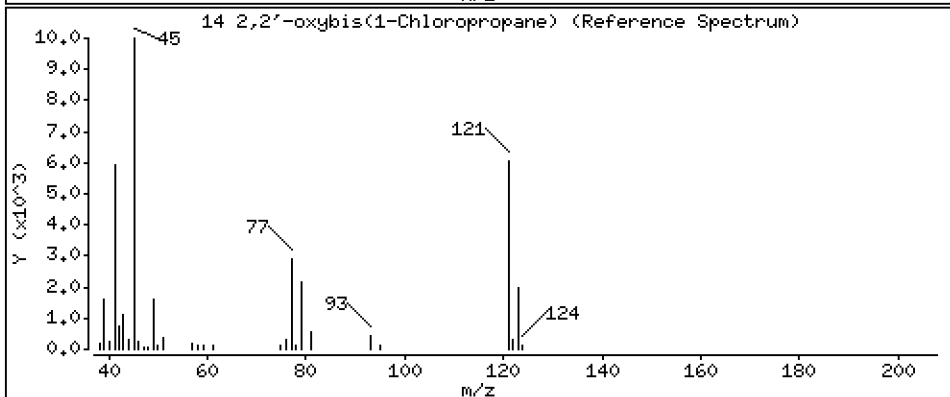
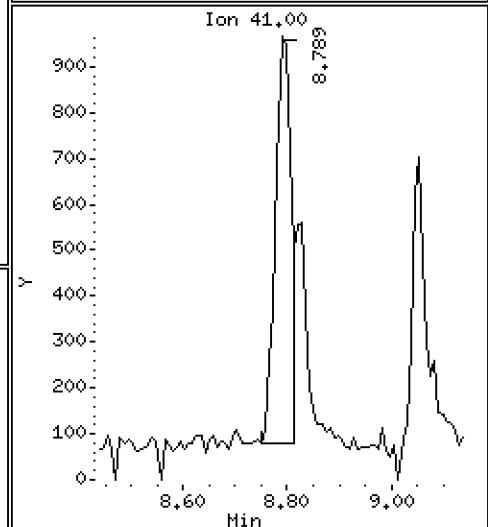
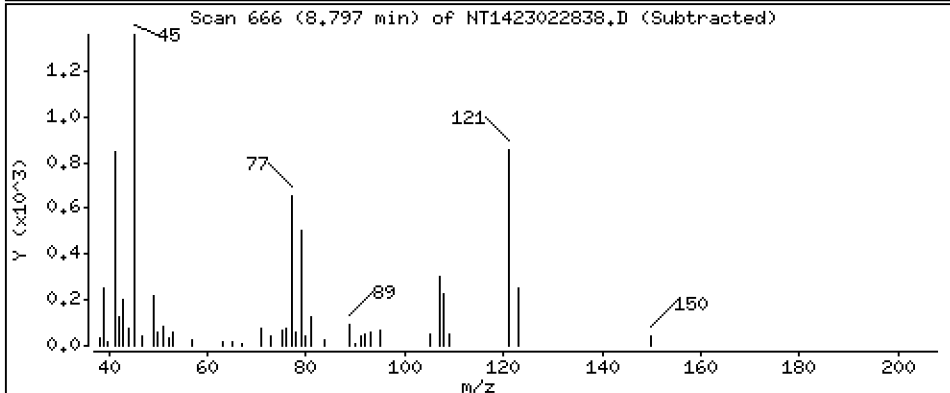
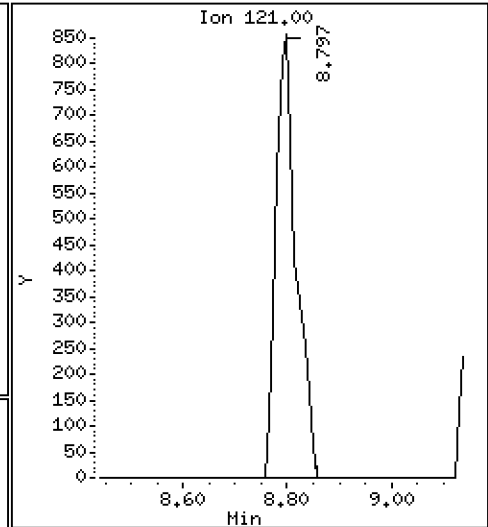
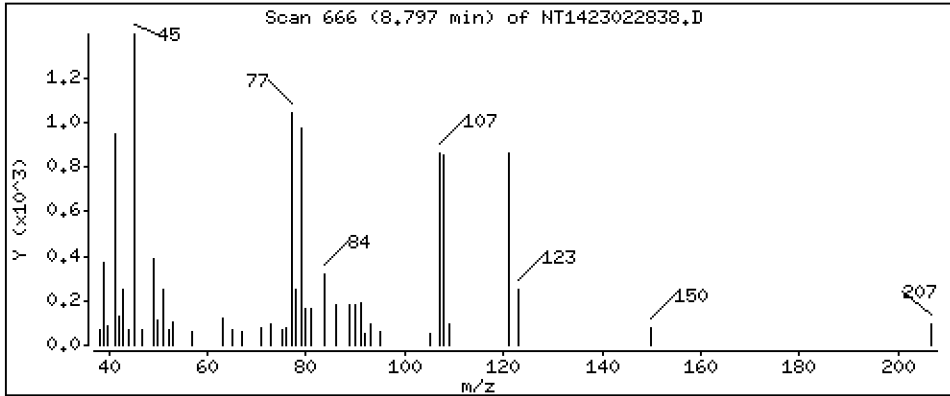
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 0,2101 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

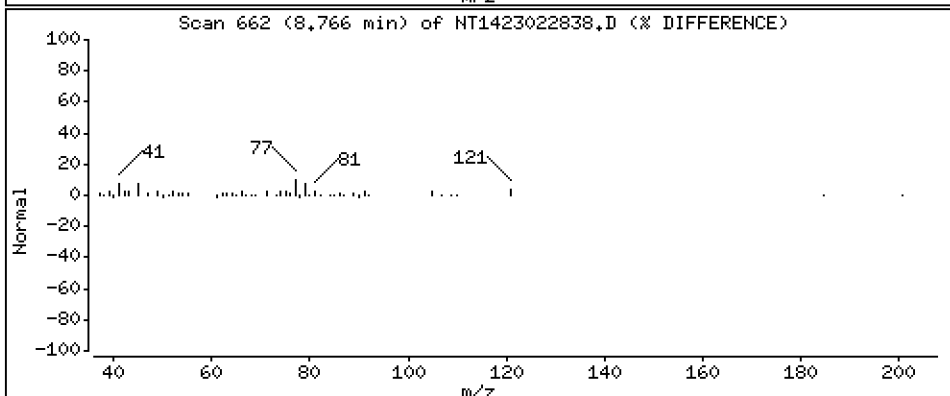
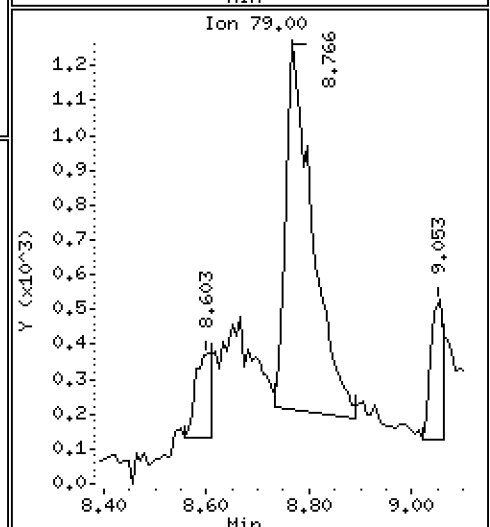
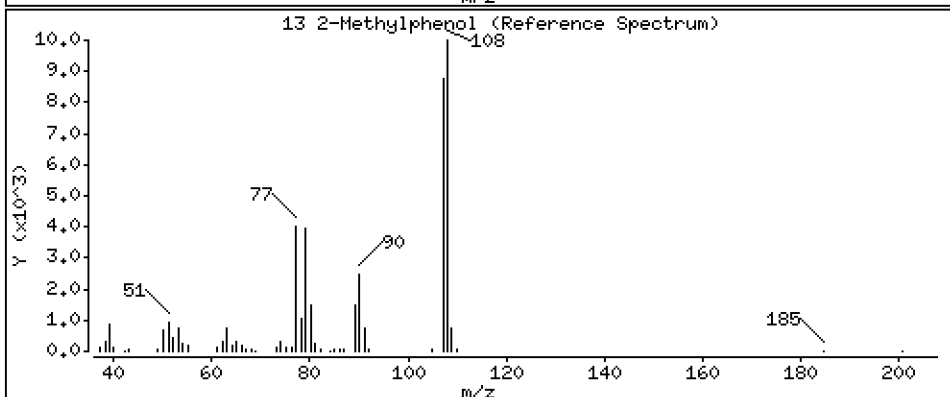
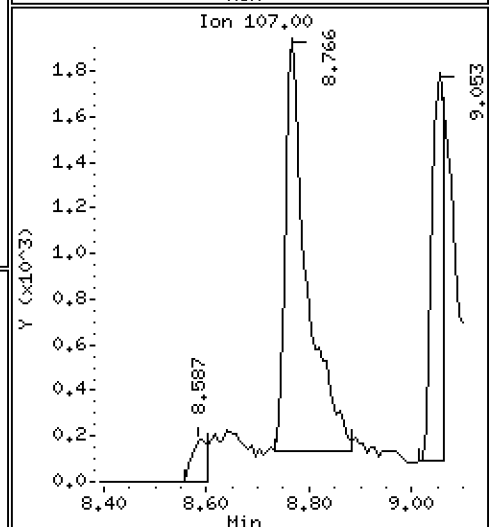
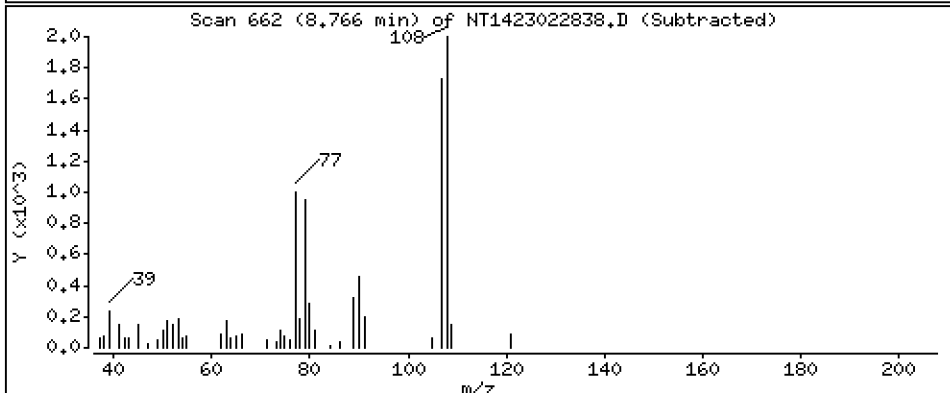
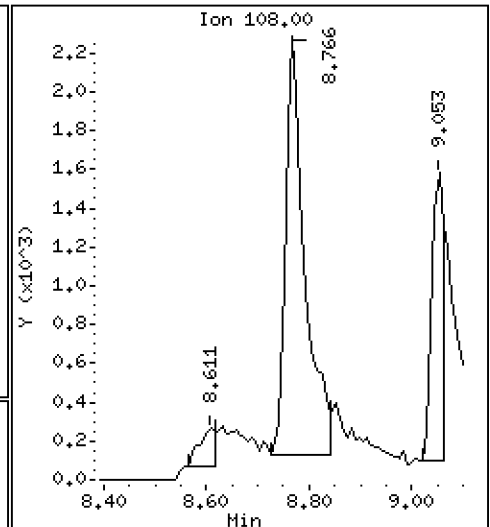
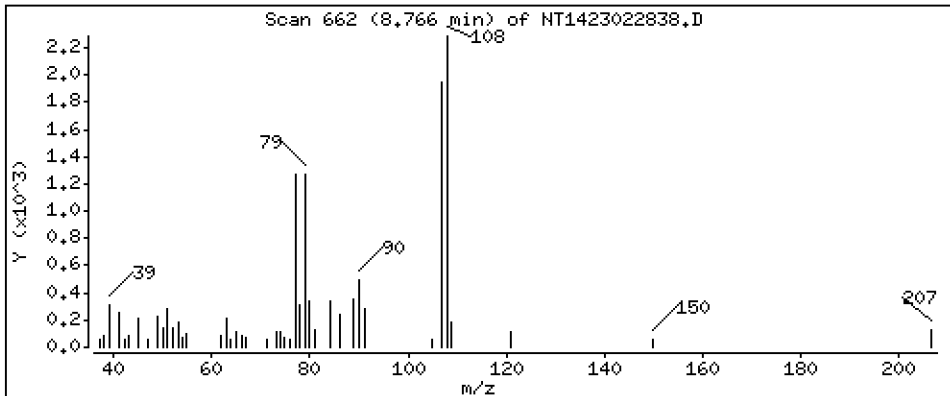
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

13 2-Methylphenol

Concentration: 0.1718 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

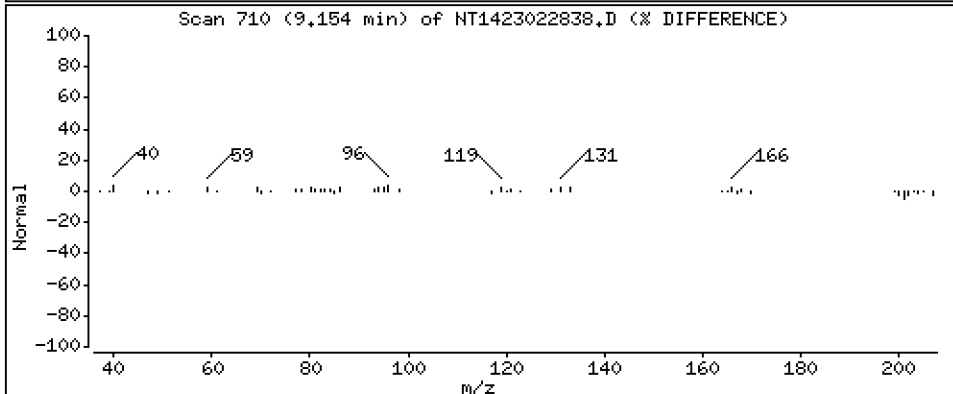
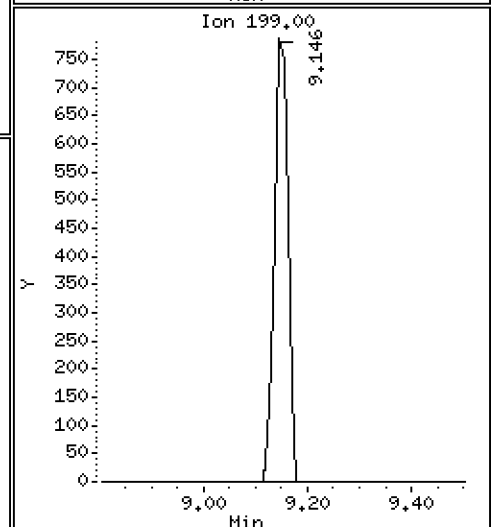
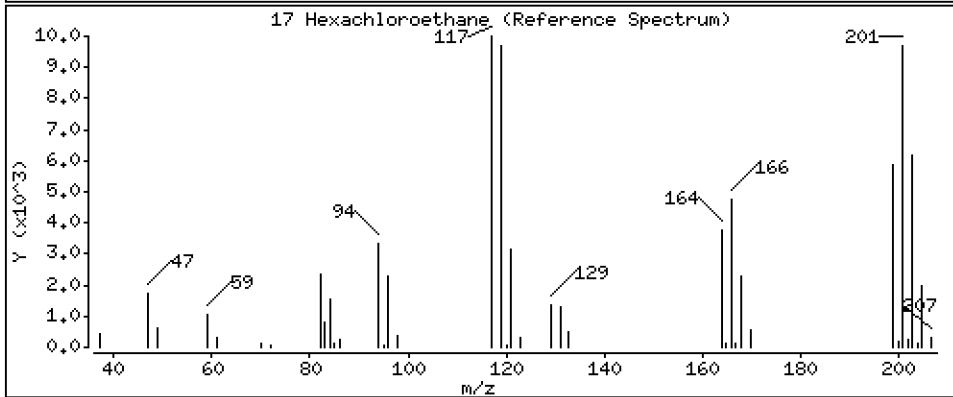
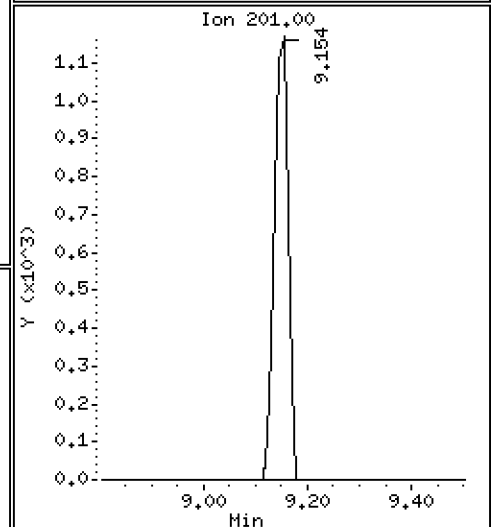
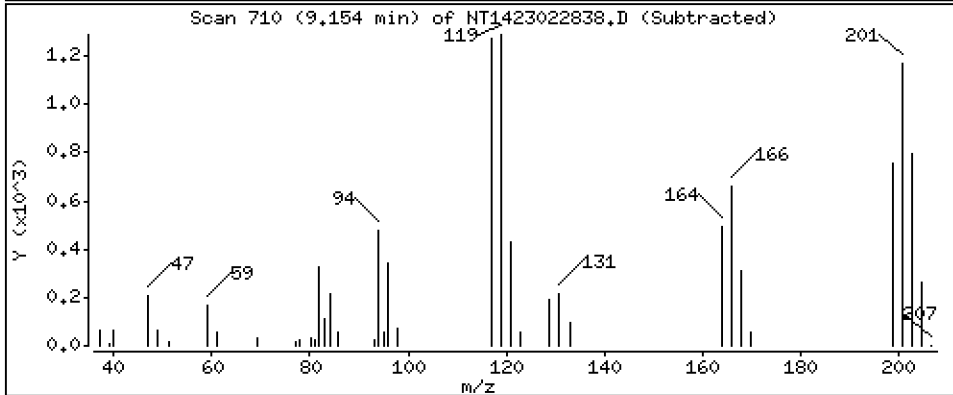
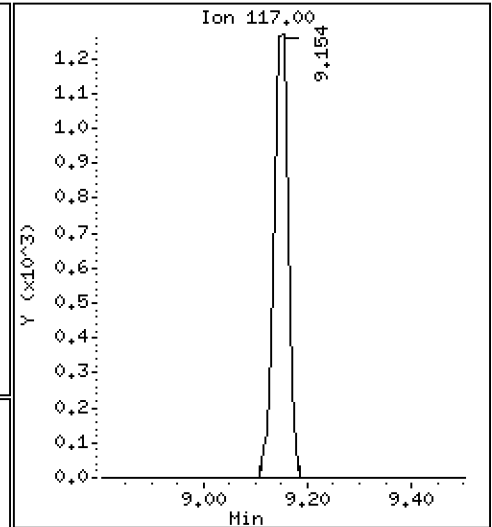
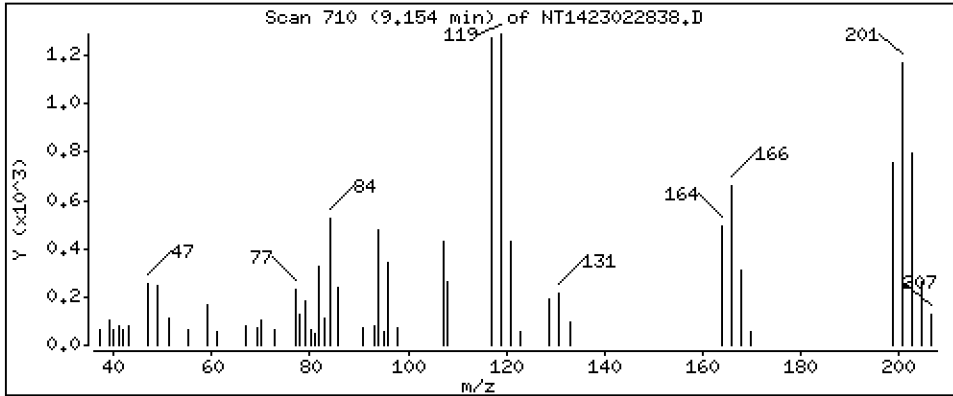
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

17 Hexachloroethane

Concentration: 0.1471 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

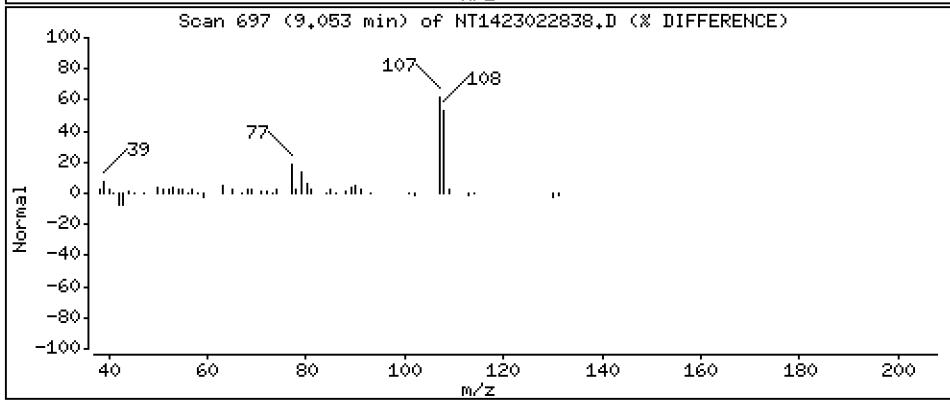
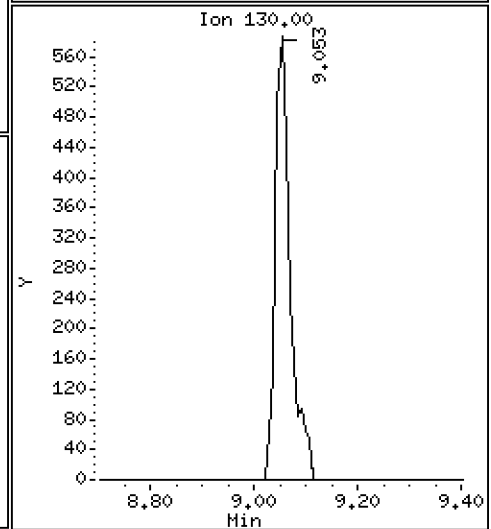
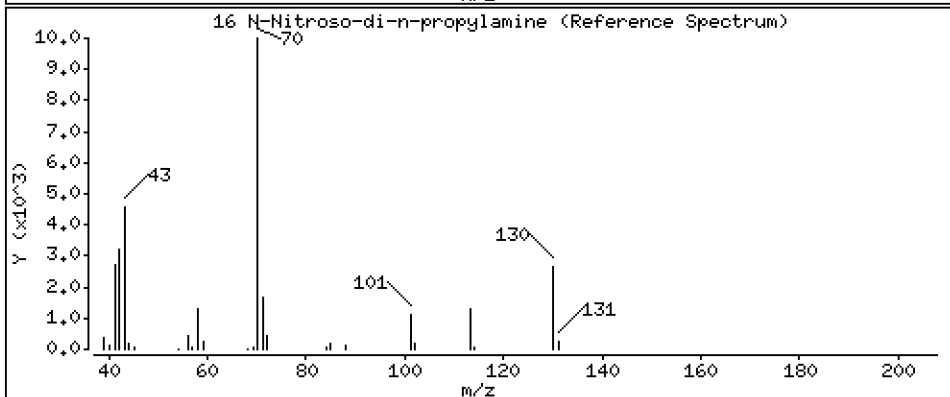
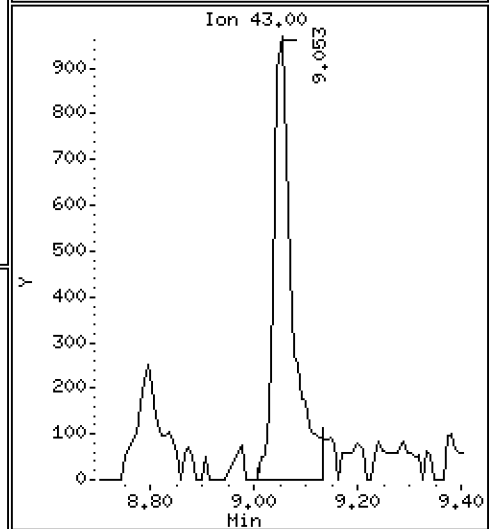
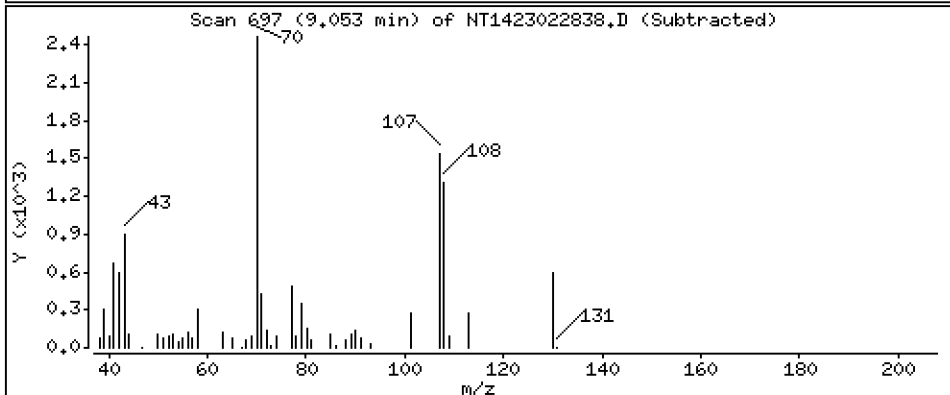
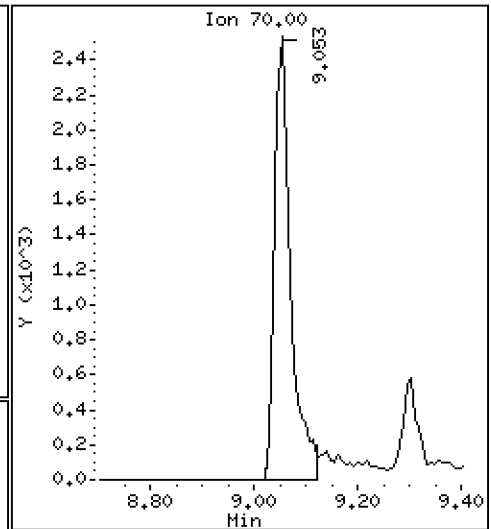
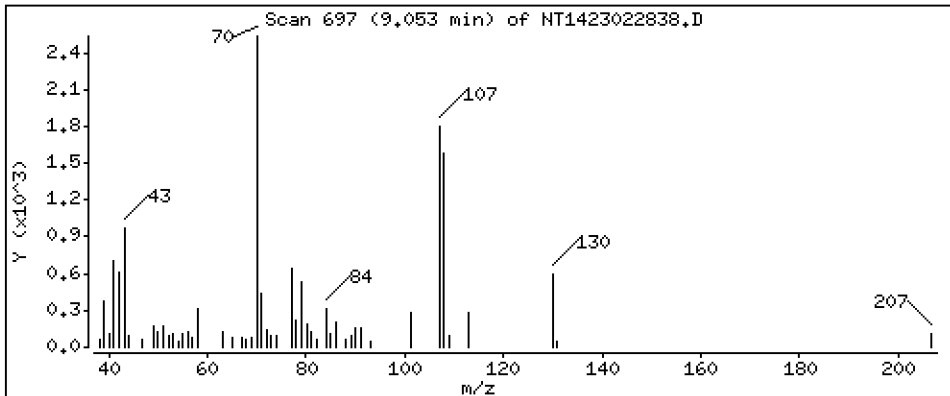
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

16 N-Nitroso-di-n-propylamine

Concentration: 0,2084 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

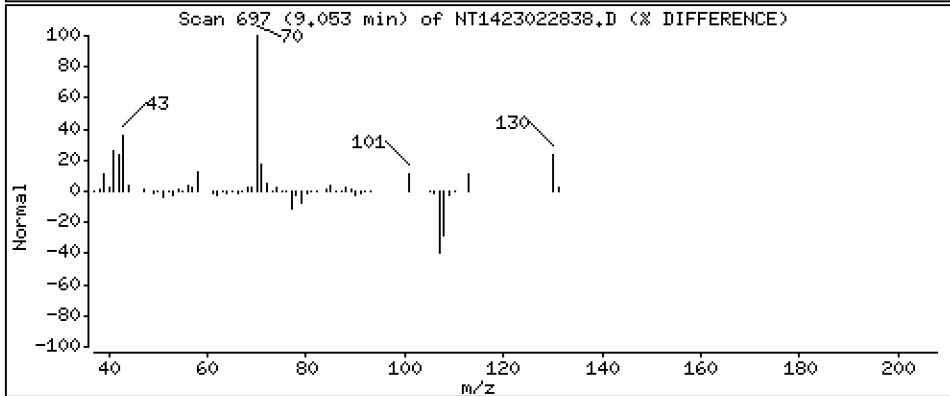
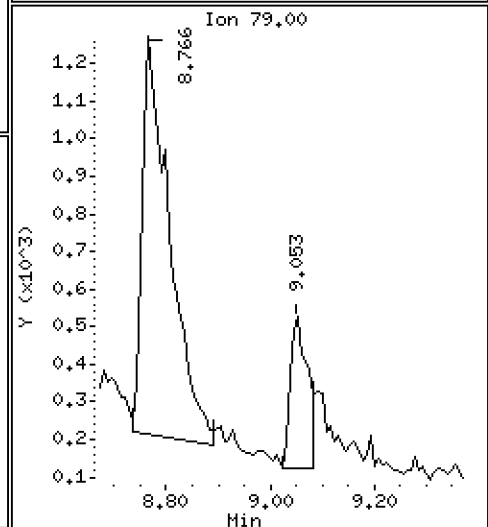
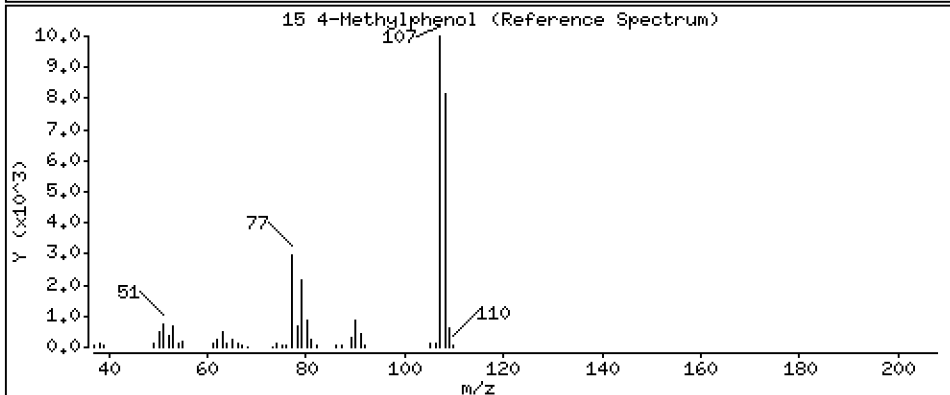
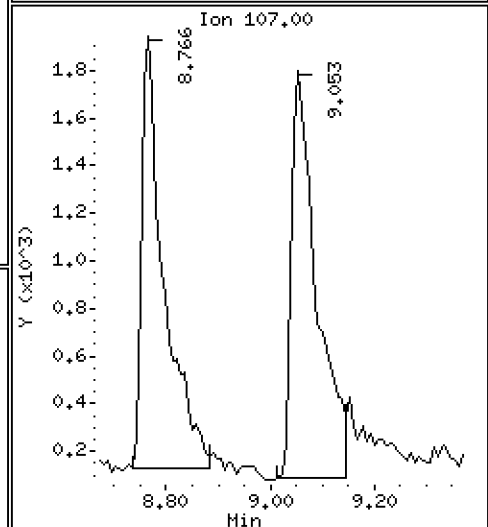
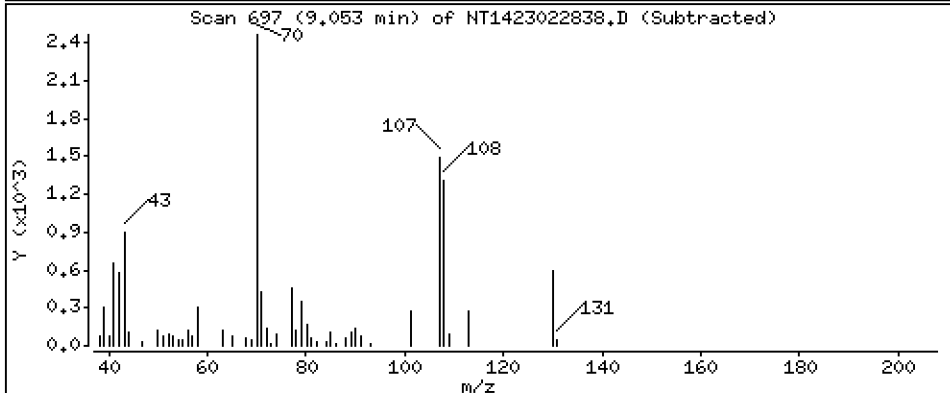
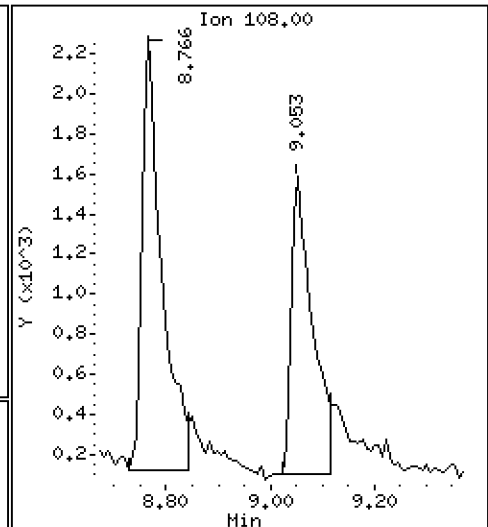
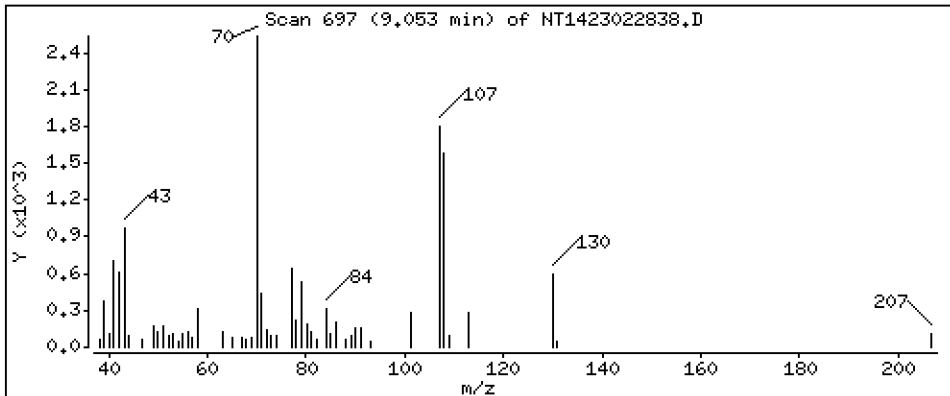
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

15 4-Methylphenol

Concentration: 0,1119 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

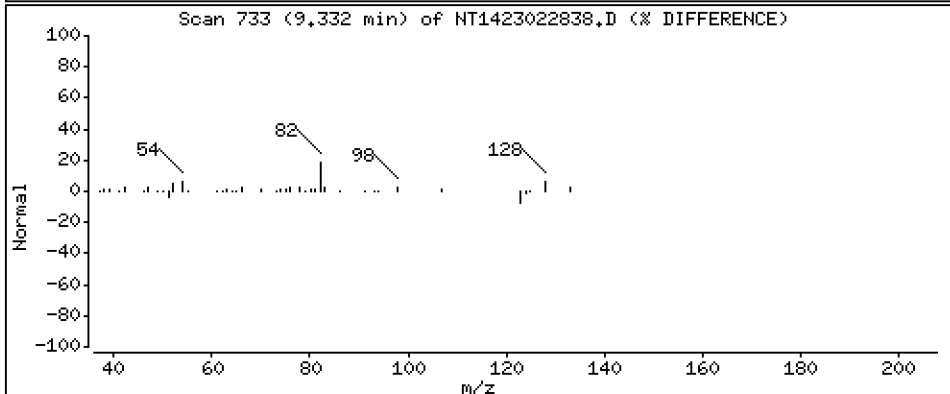
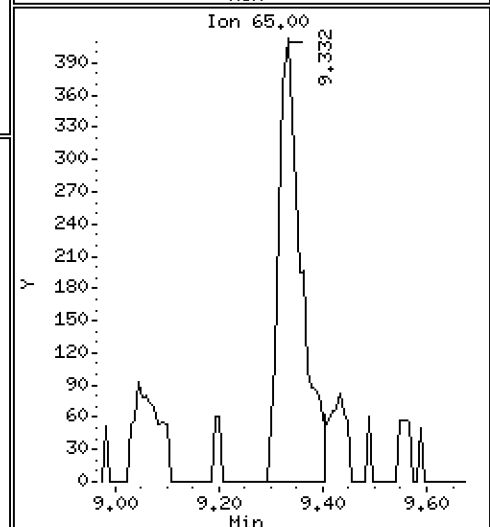
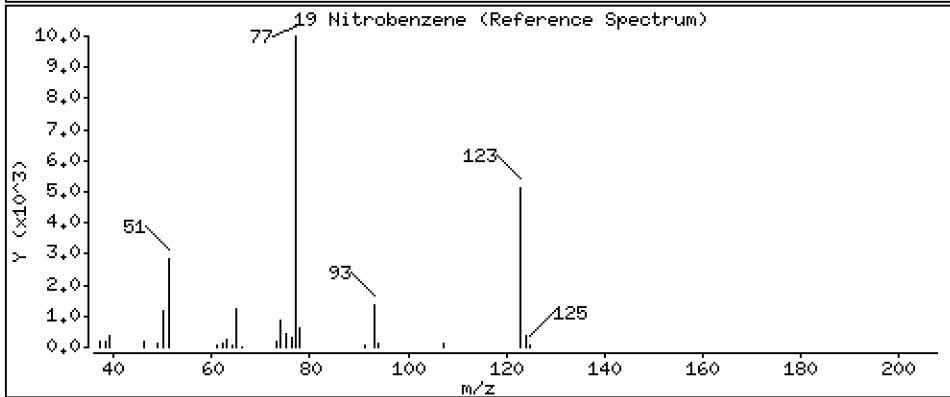
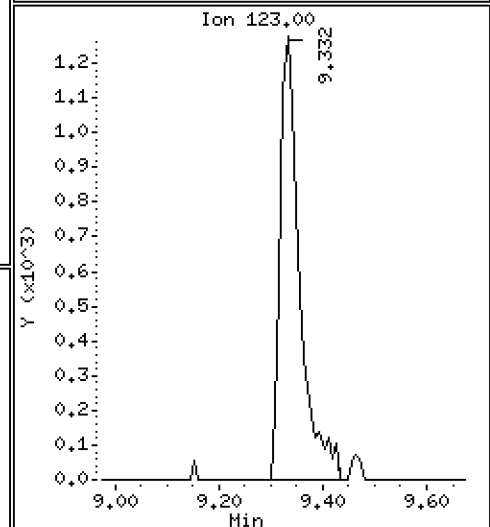
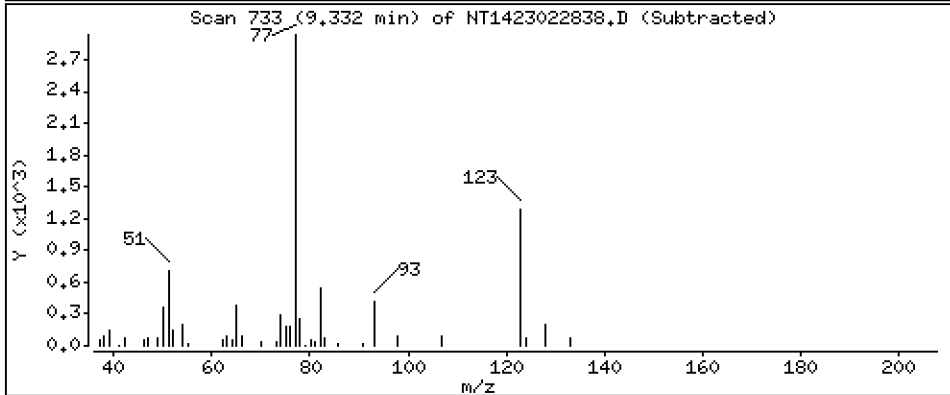
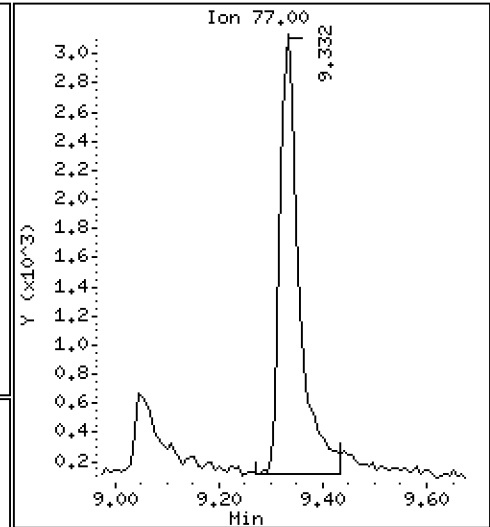
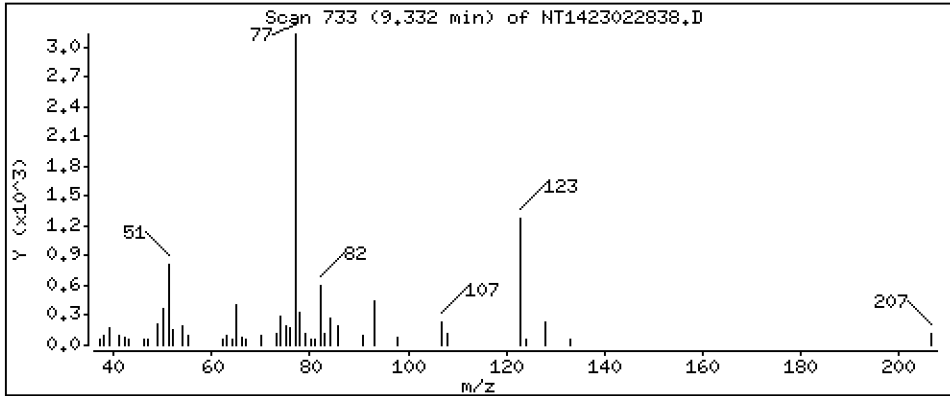
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

19 Nitrobenzene

Concentration: 0,1999 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

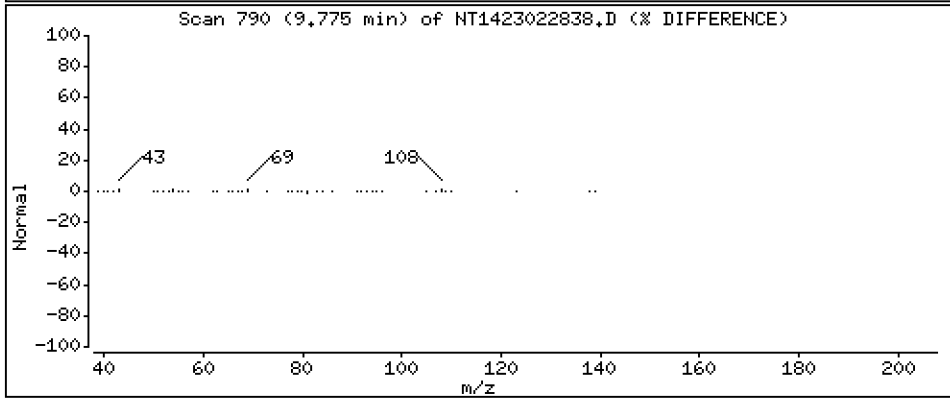
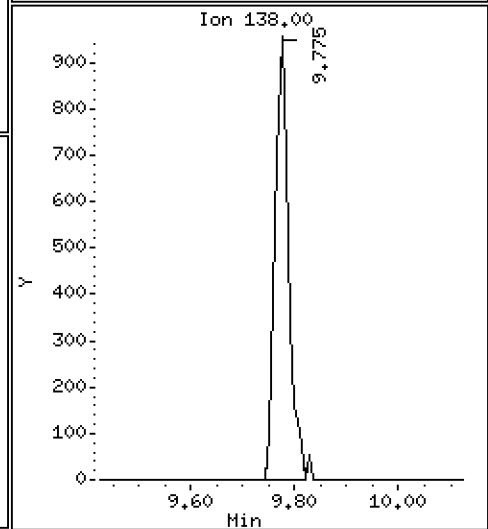
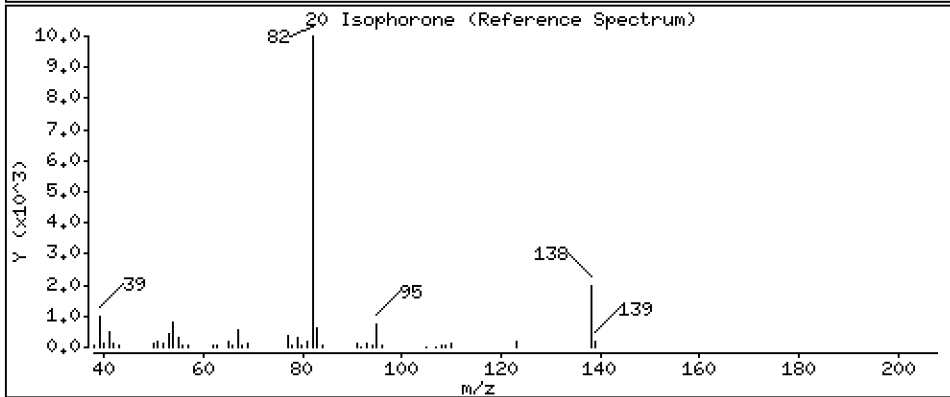
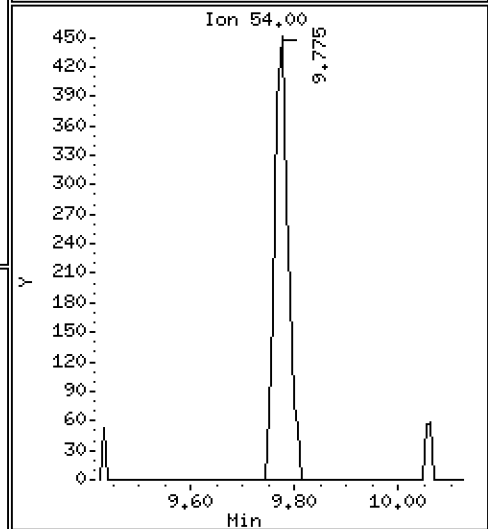
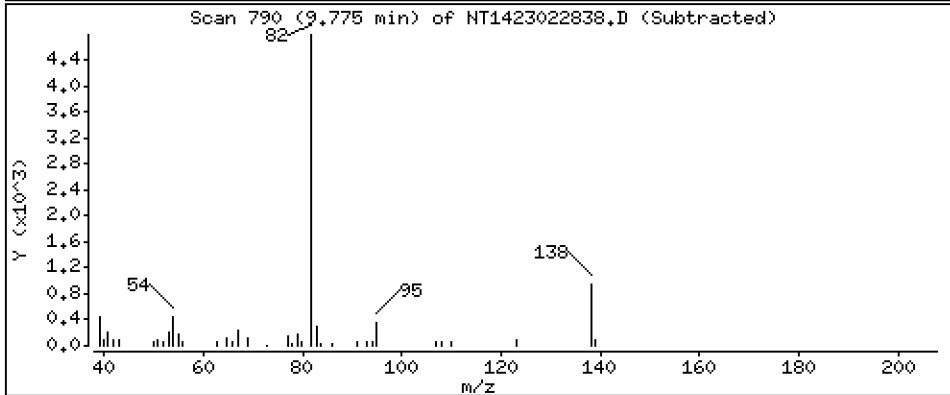
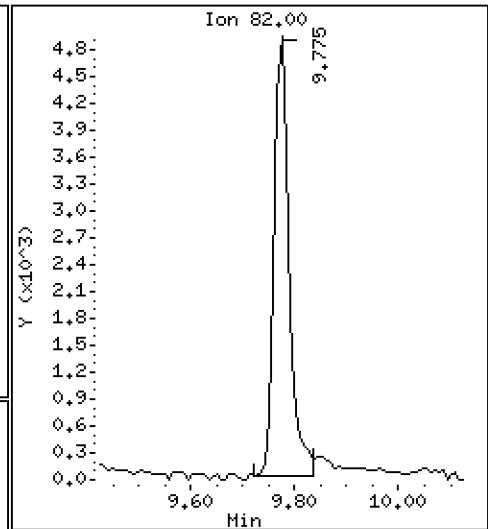
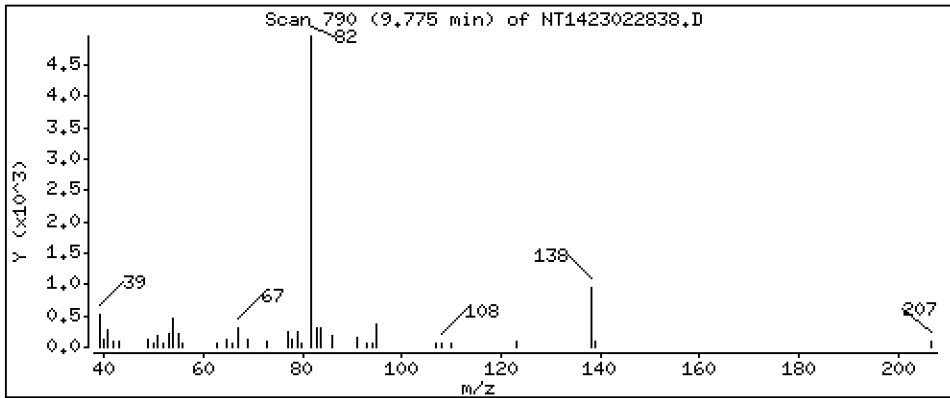
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

20 Isophorone

Concentration: 0,1578 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

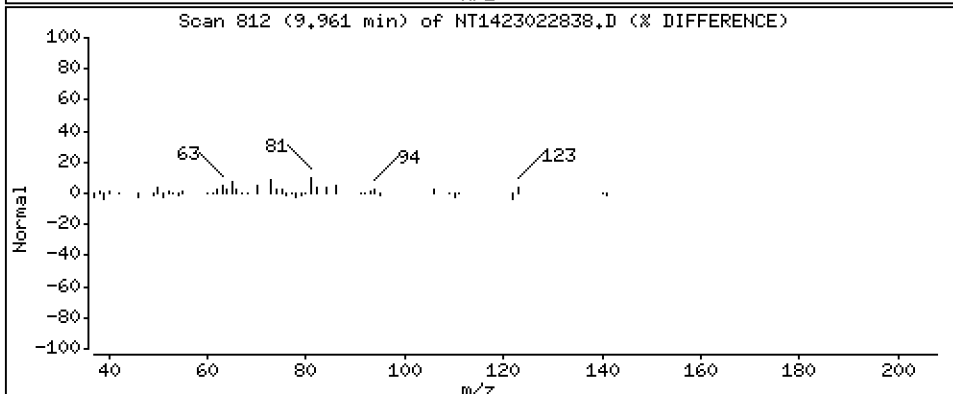
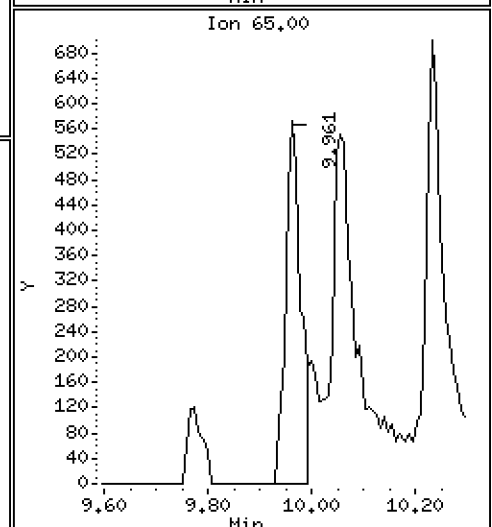
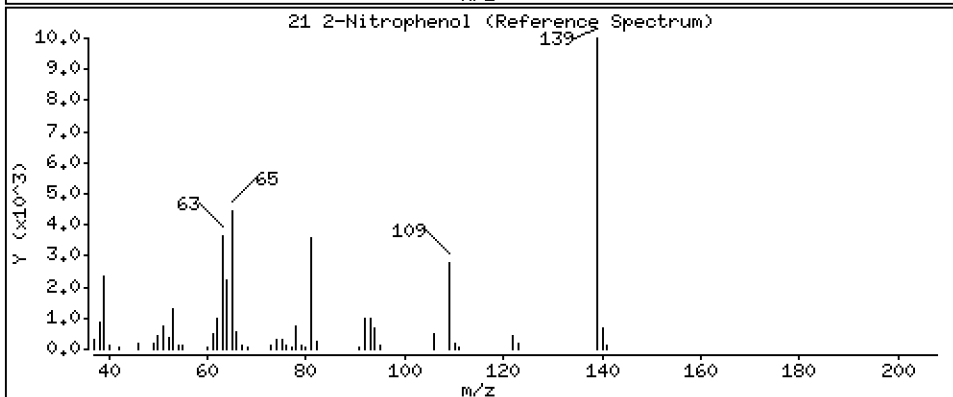
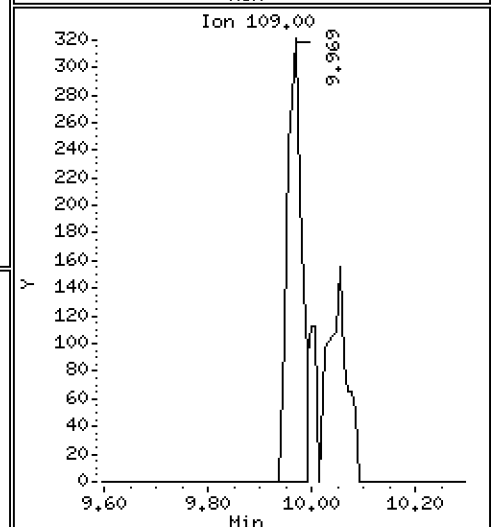
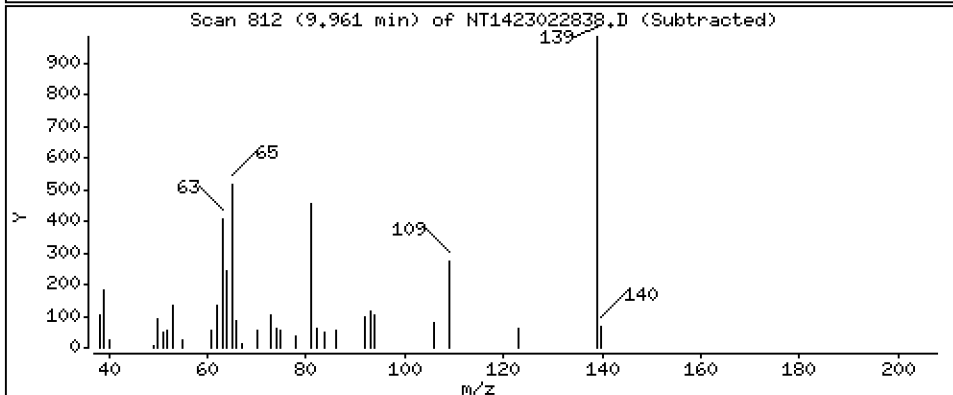
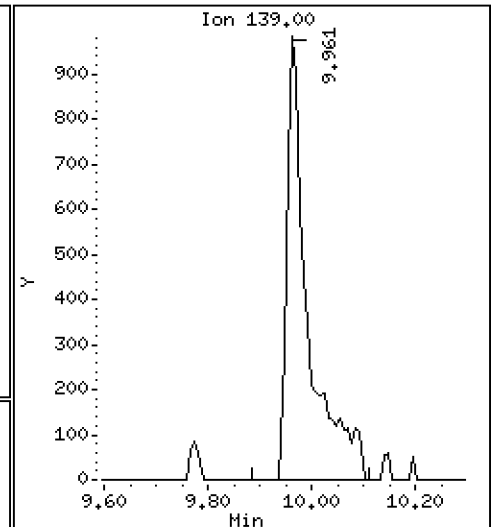
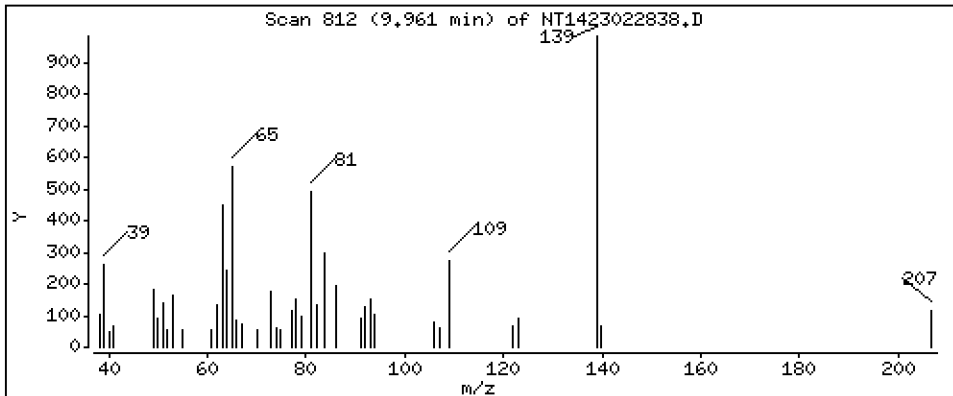
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

21 2-Nitrophenol

Concentration: 0,1547 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

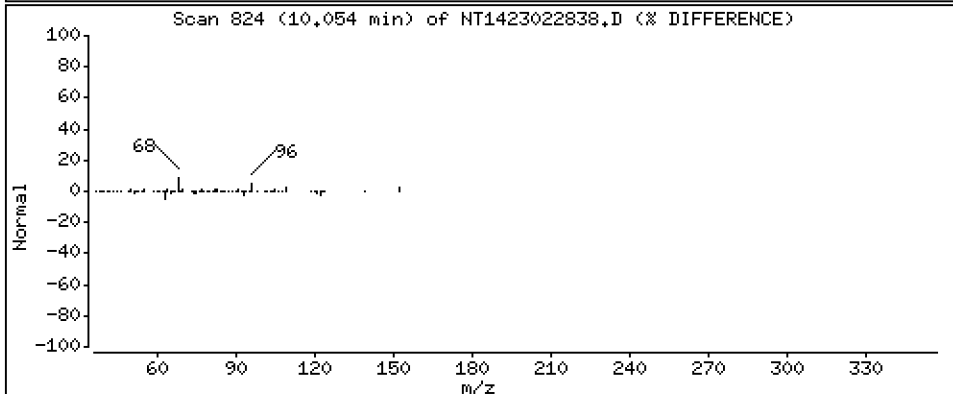
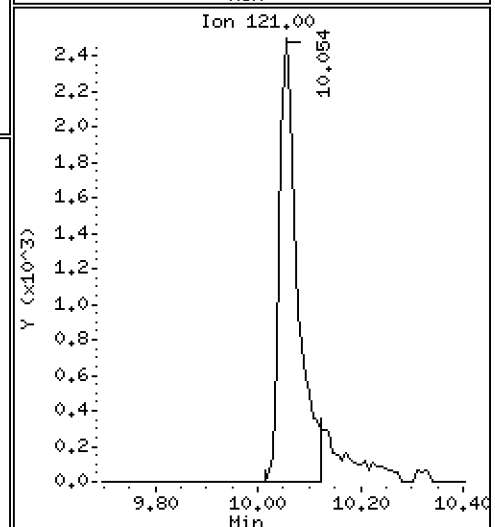
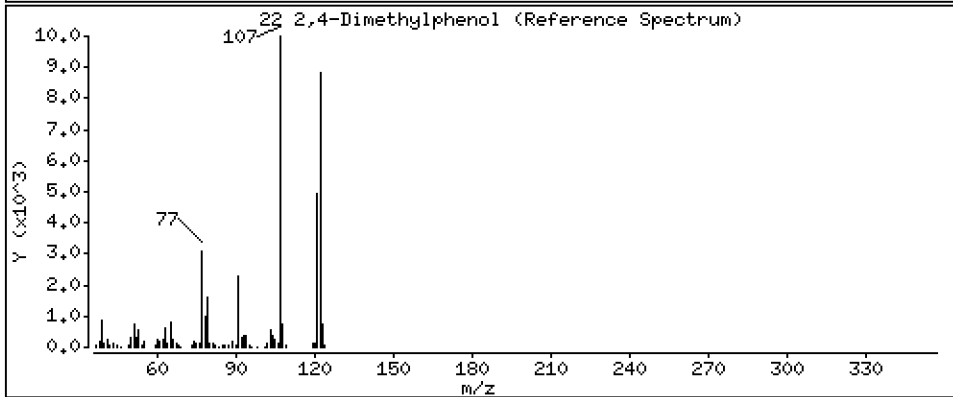
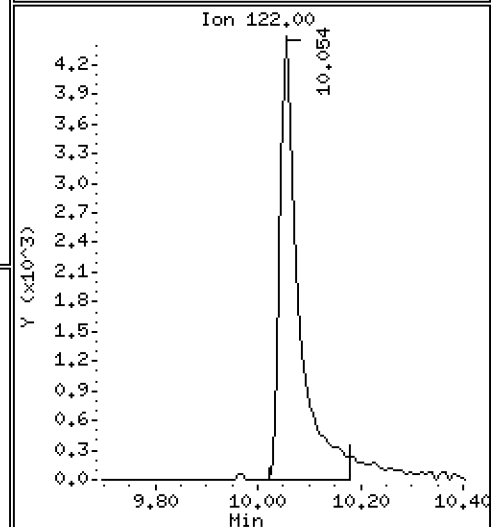
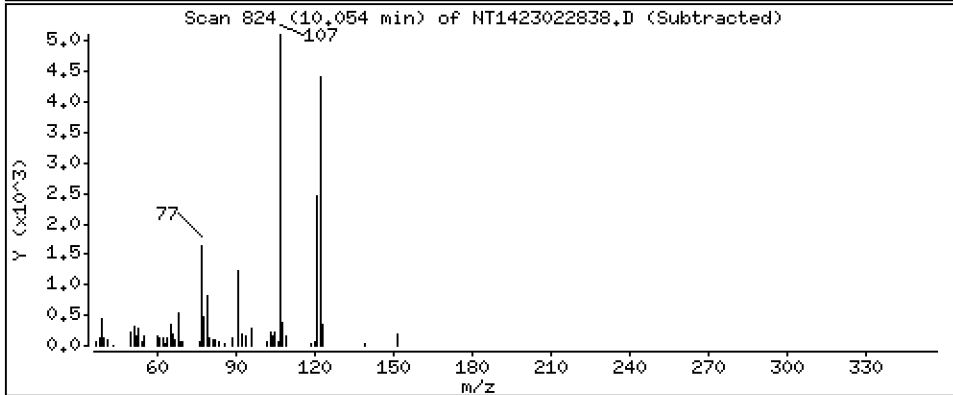
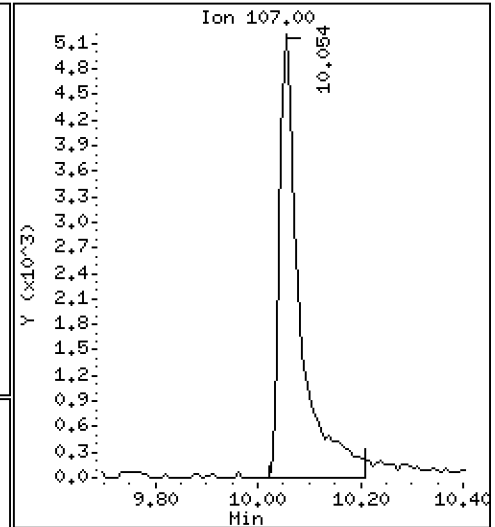
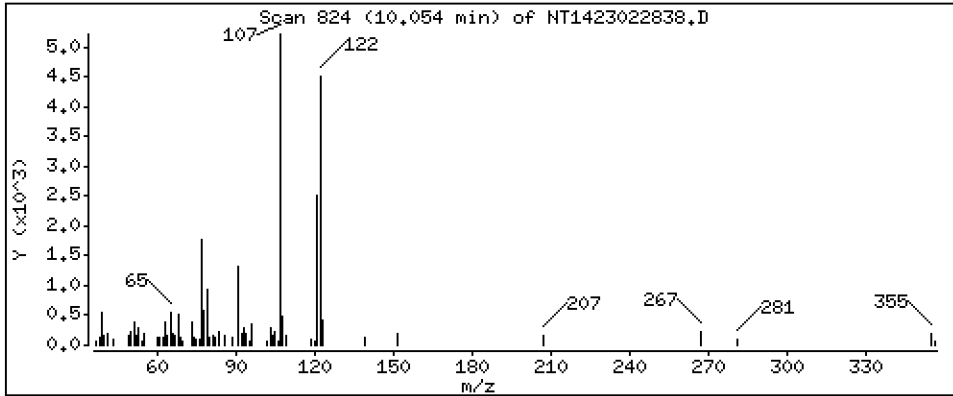
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 0,4027 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

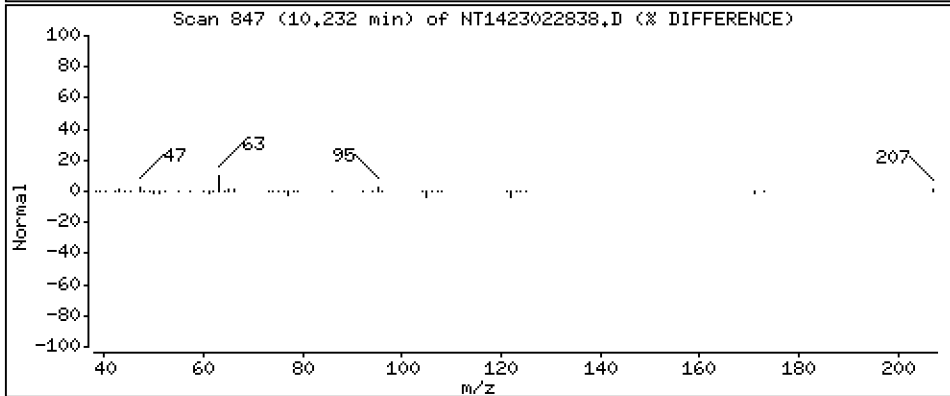
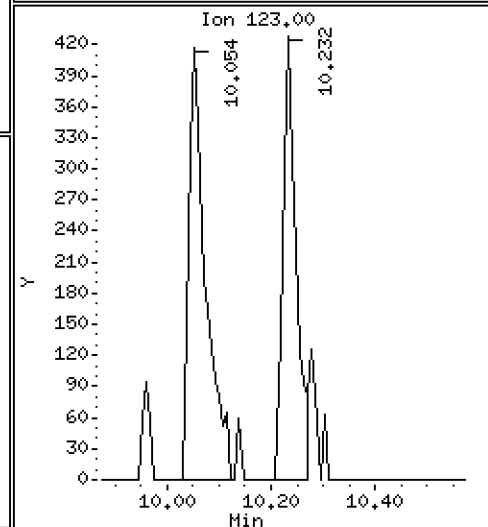
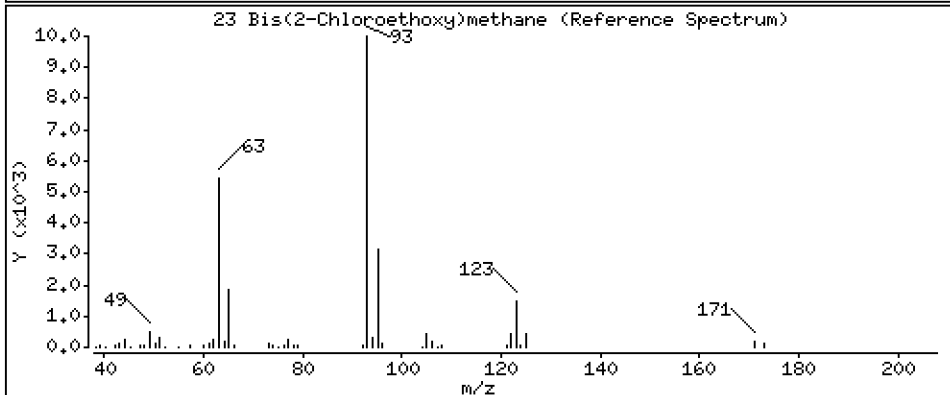
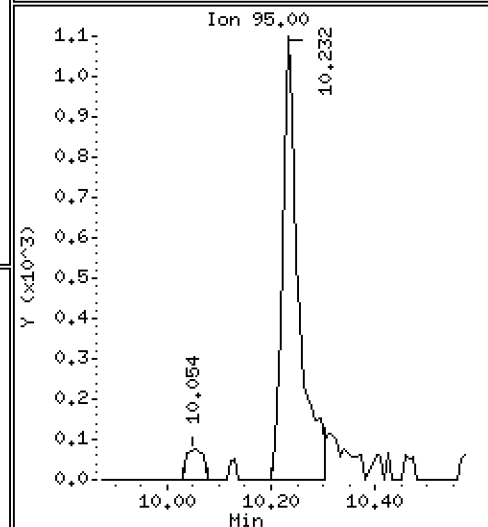
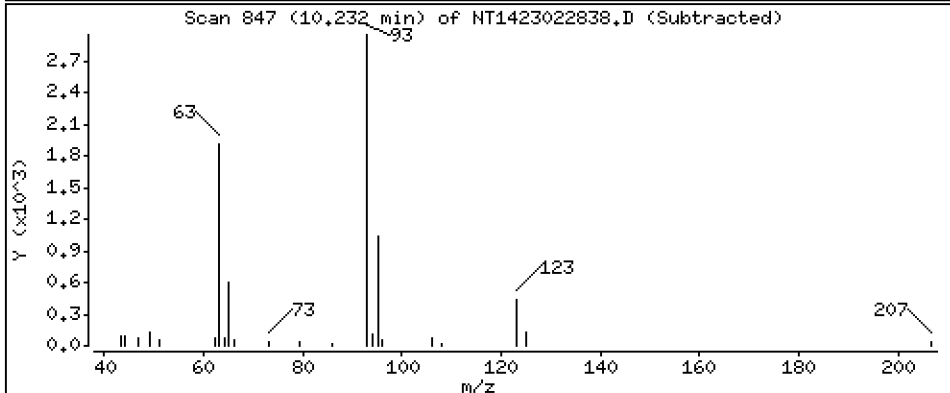
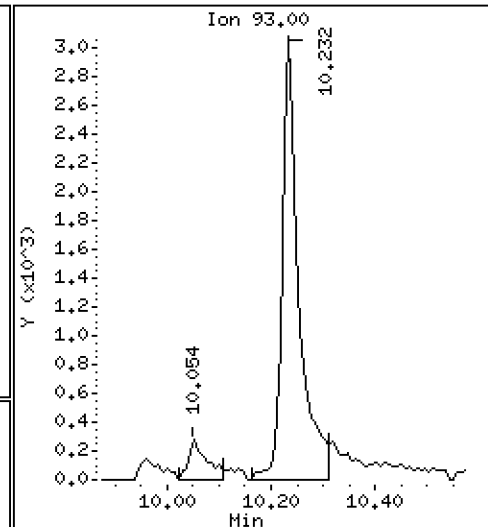
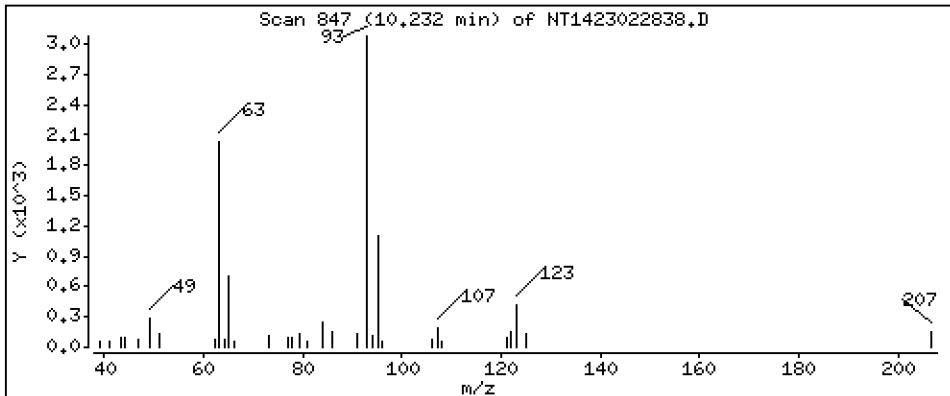
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

23 Bis(2-Chloroethoxy)methane

Concentration: 0.1833 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

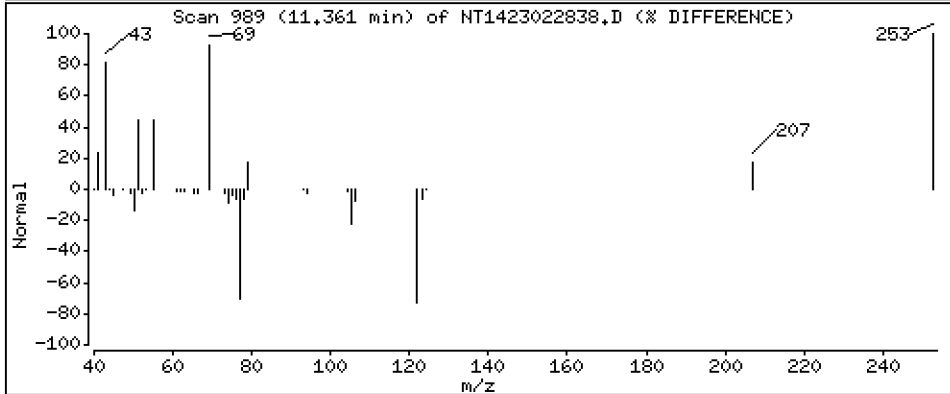
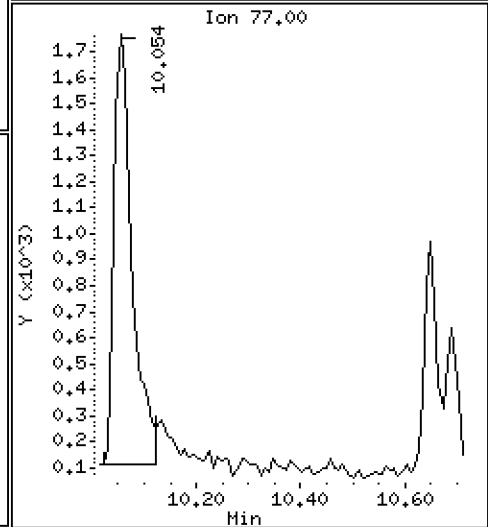
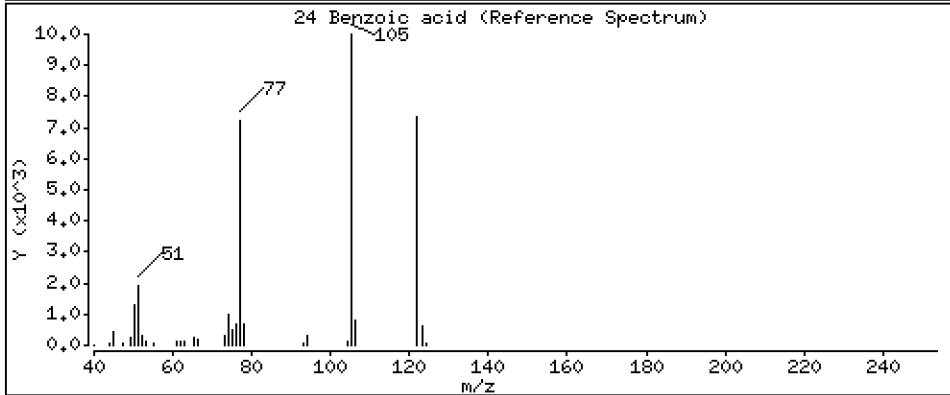
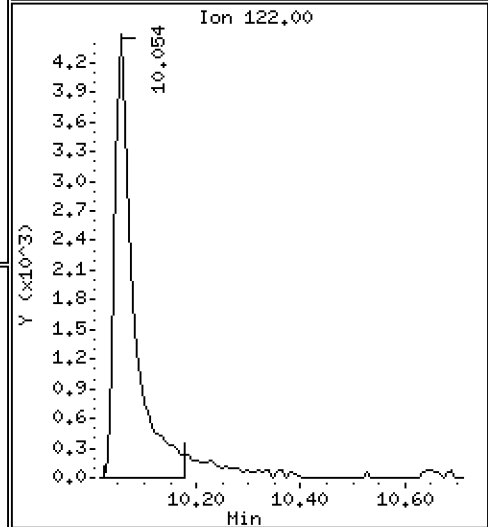
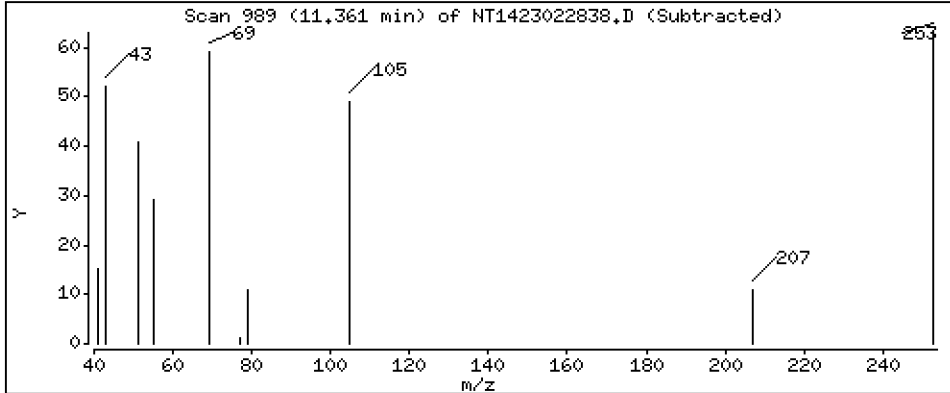
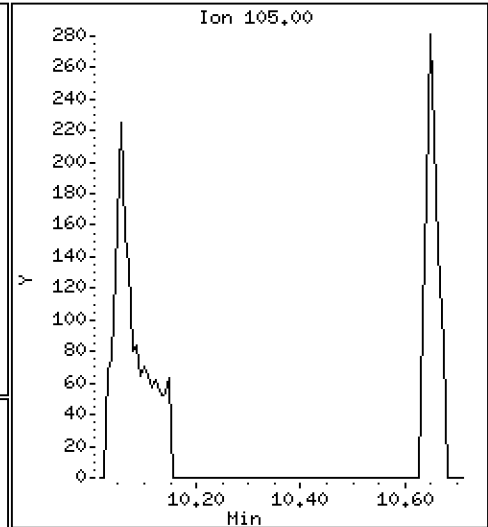
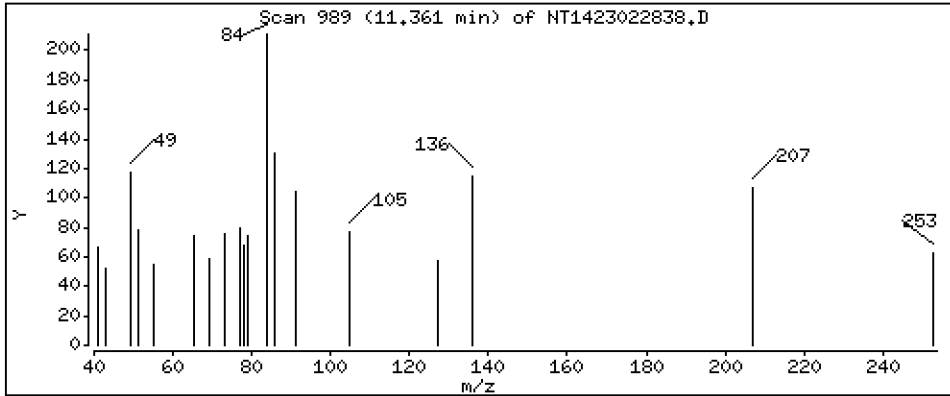
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

24 Benzoic acid

Concentration: 0,08173 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

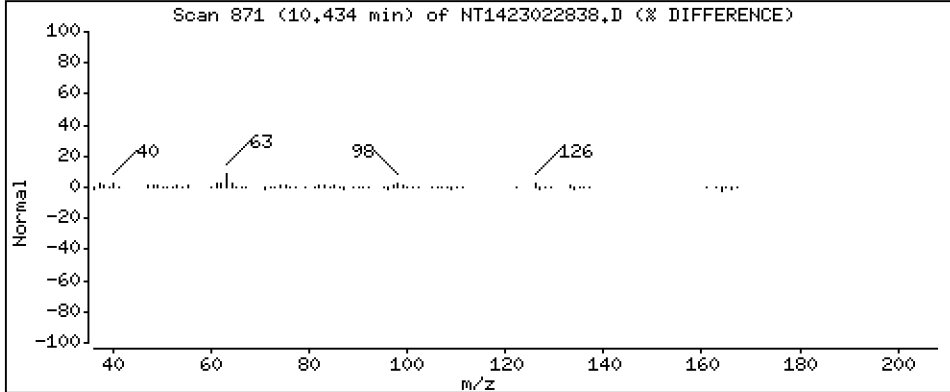
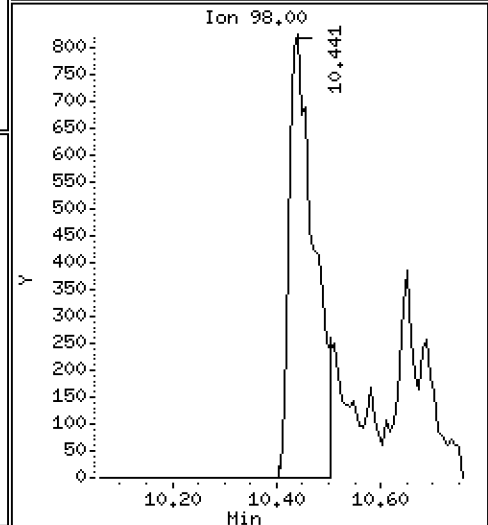
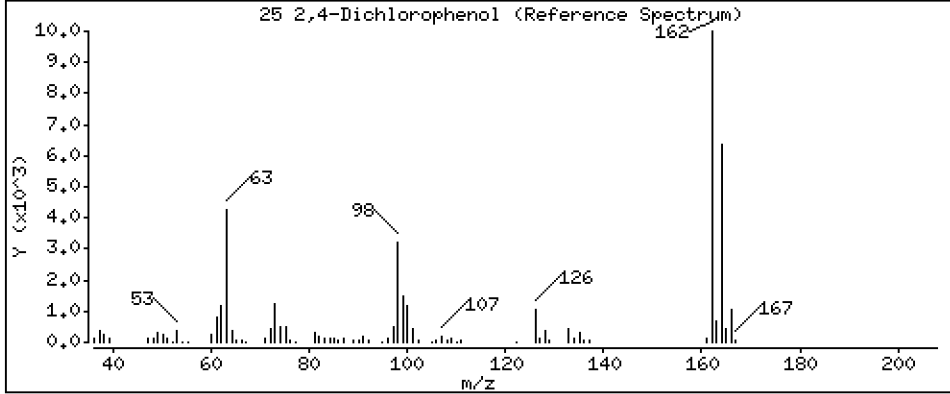
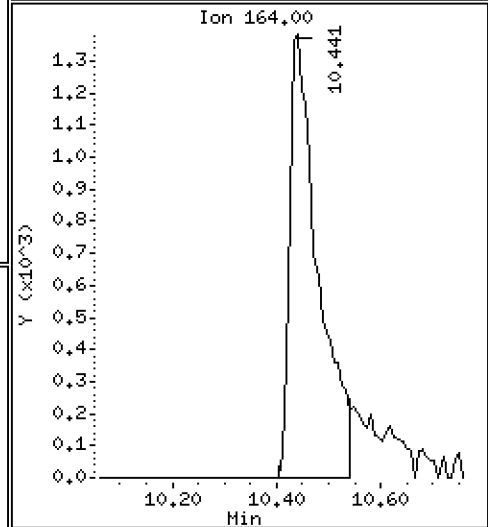
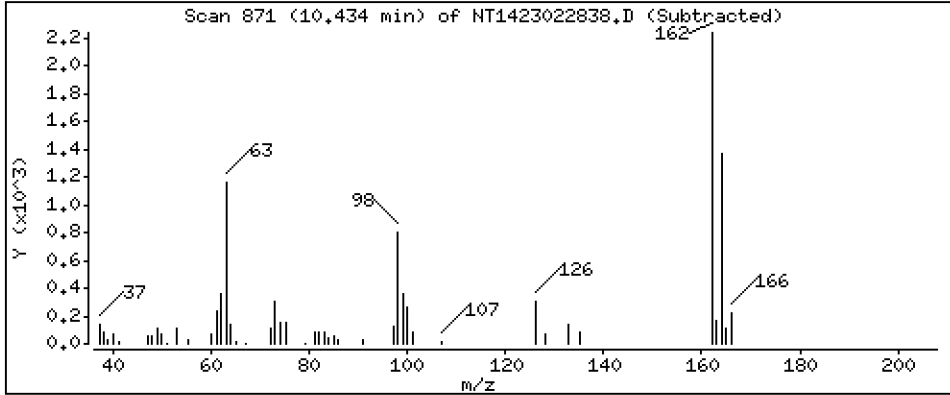
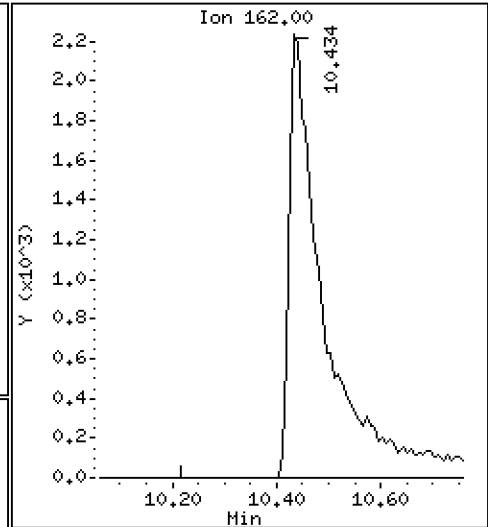
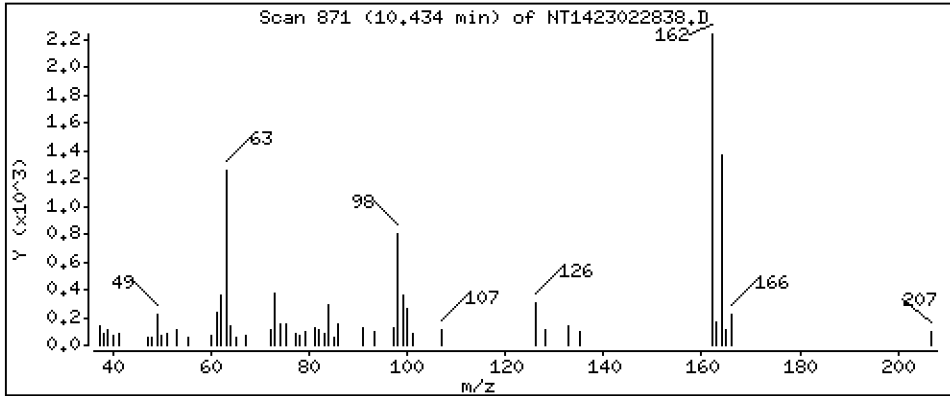
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 0,3194 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

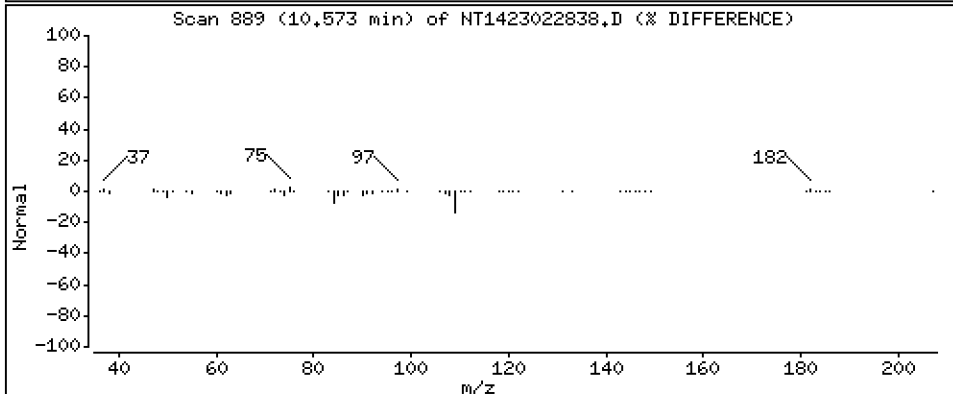
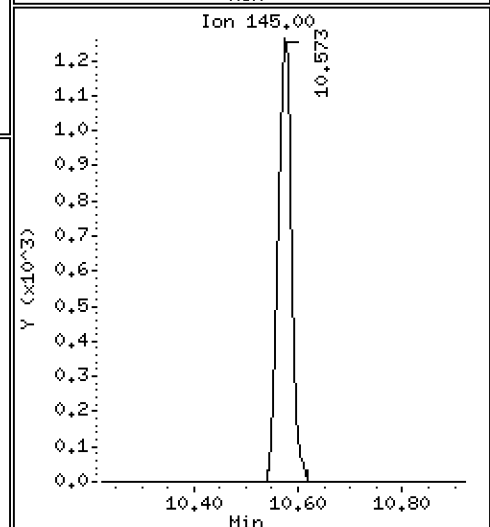
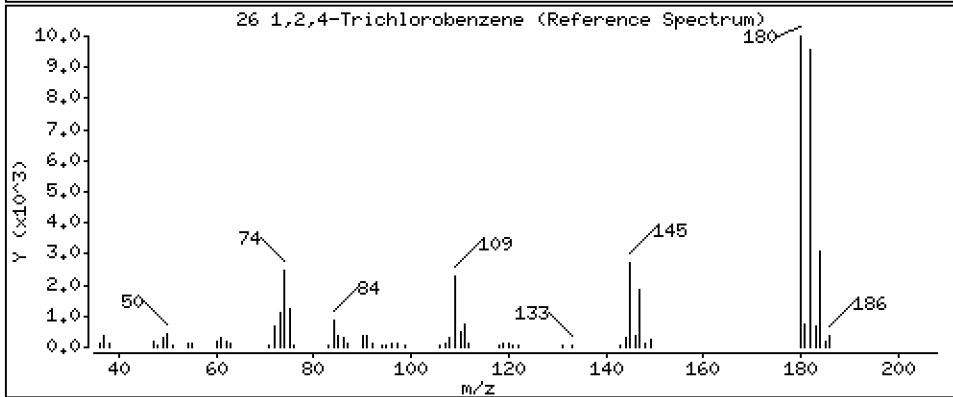
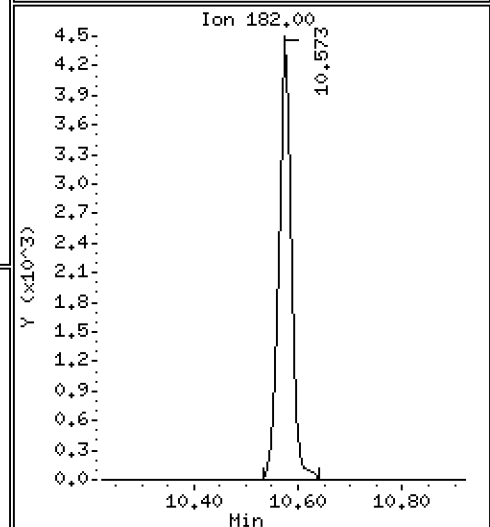
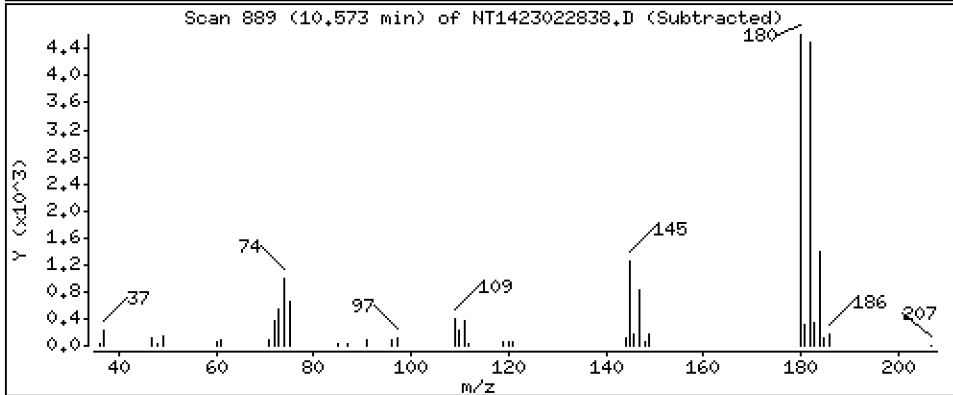
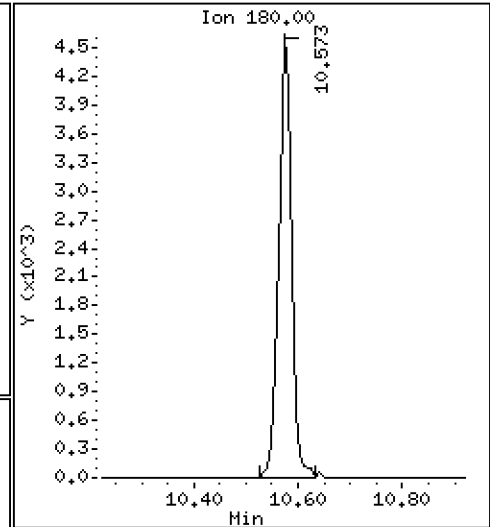
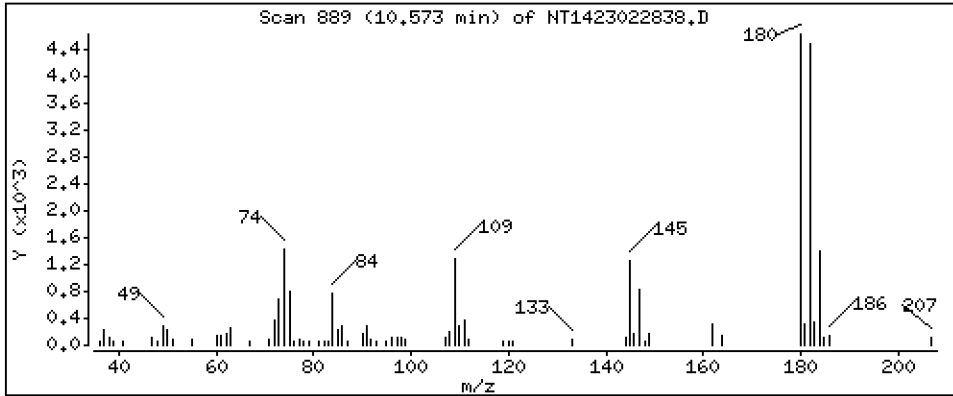
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 0,1994 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

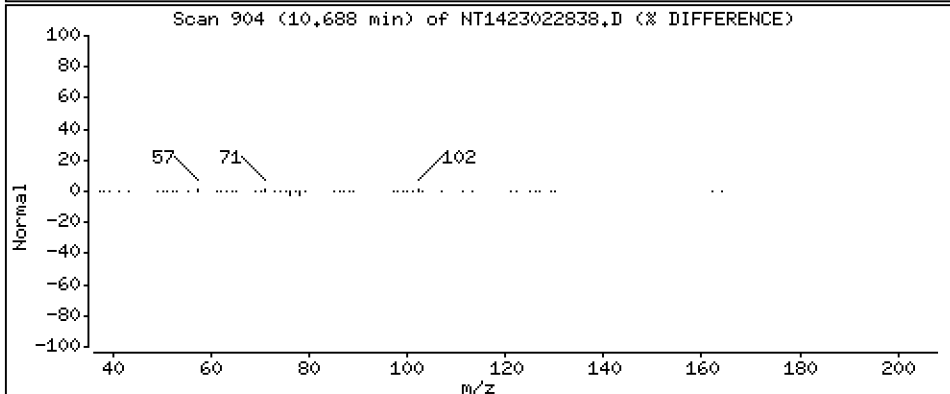
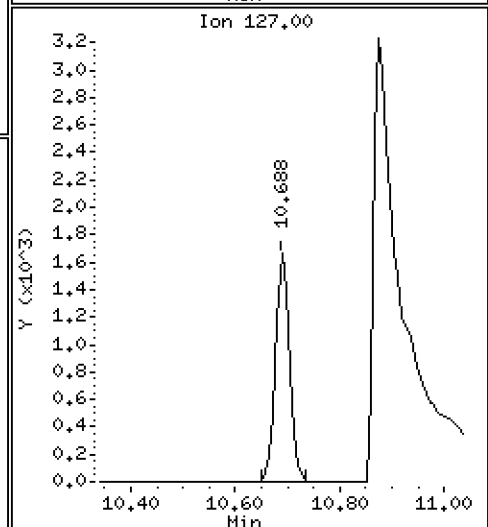
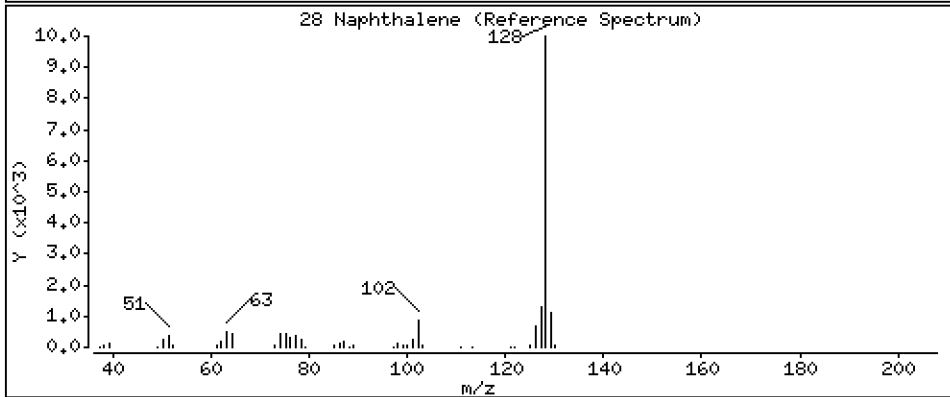
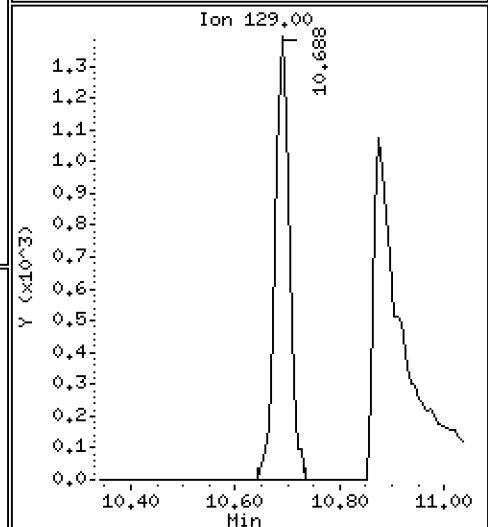
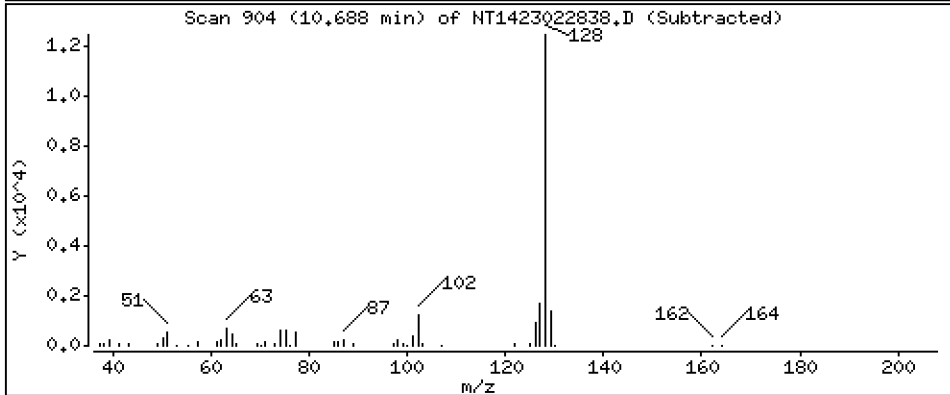
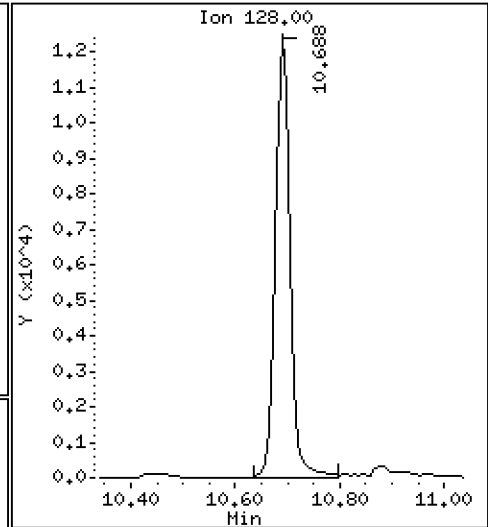
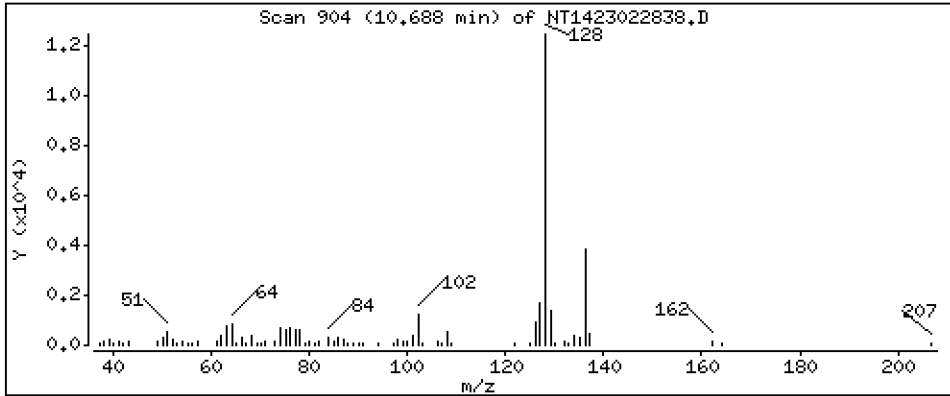
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 0,2156 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

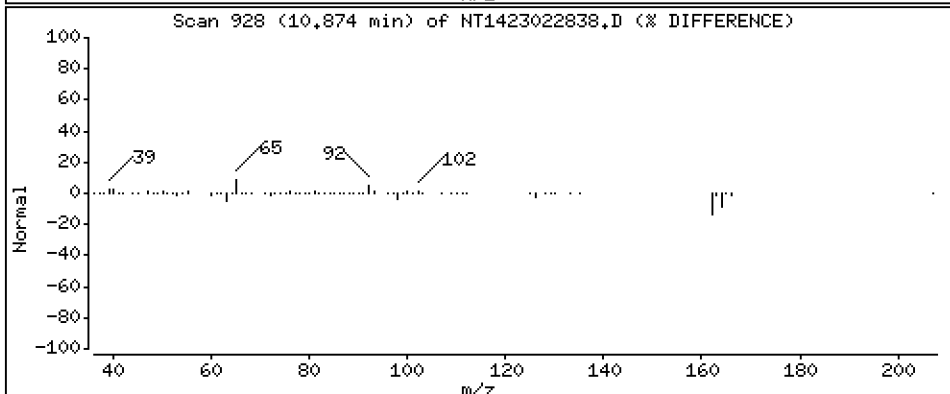
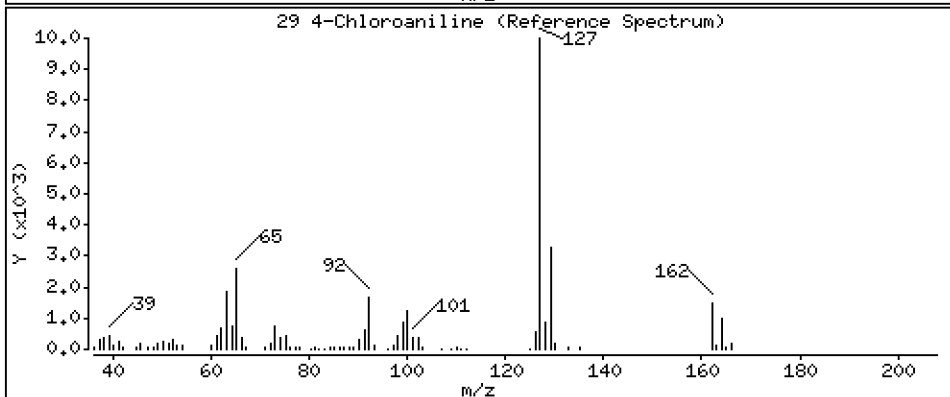
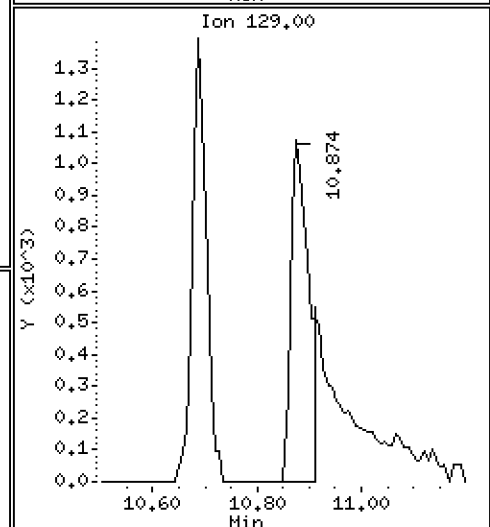
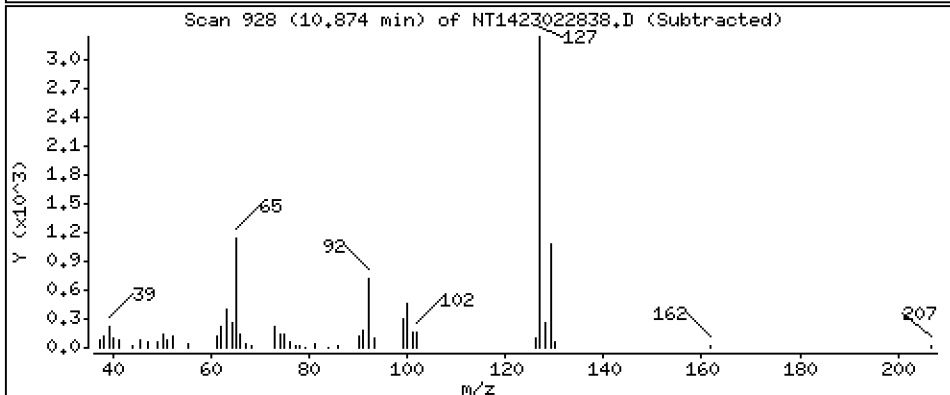
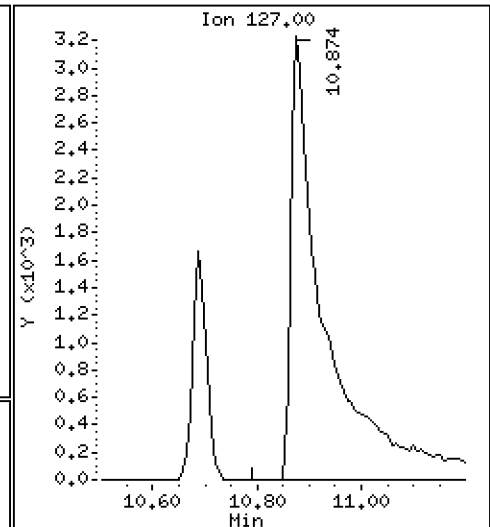
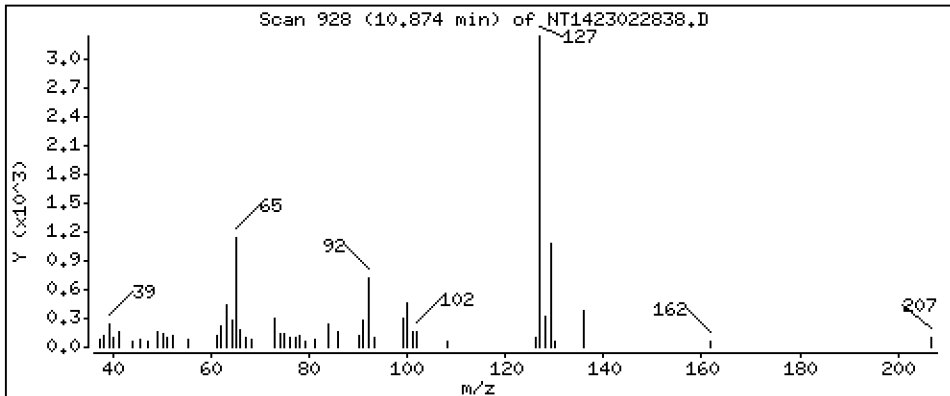
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

29 4-Chloroaniline

Concentration: 0,3476 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

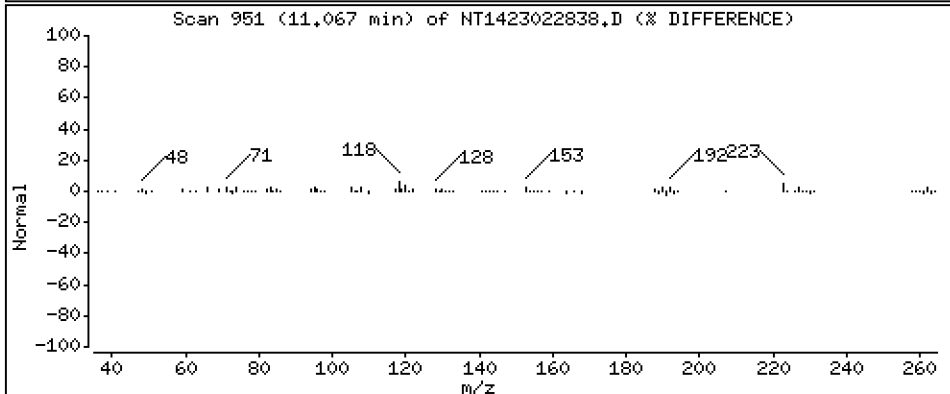
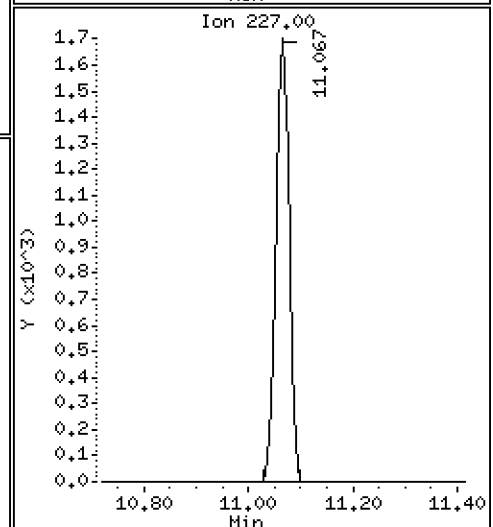
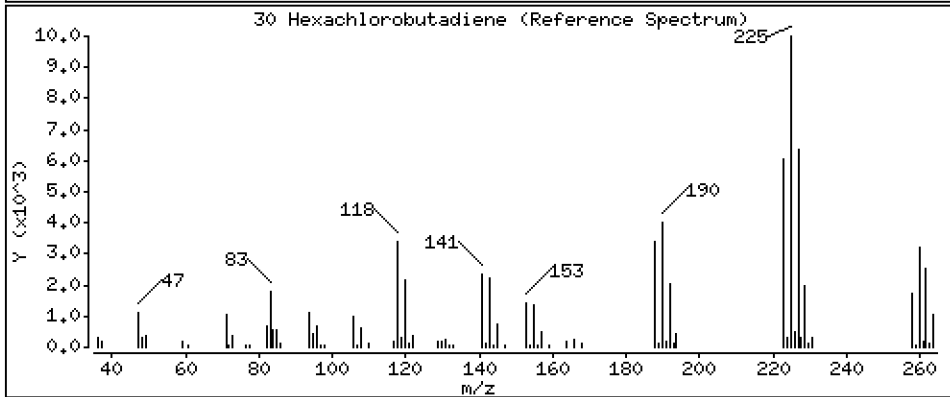
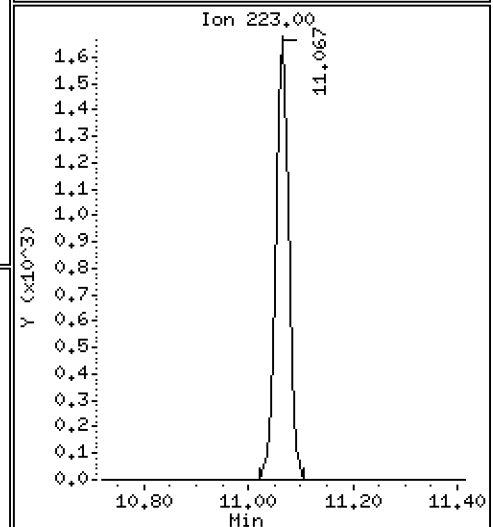
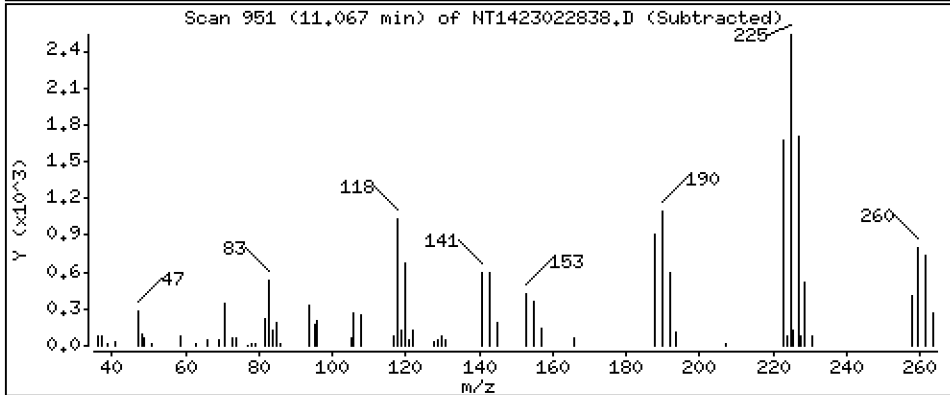
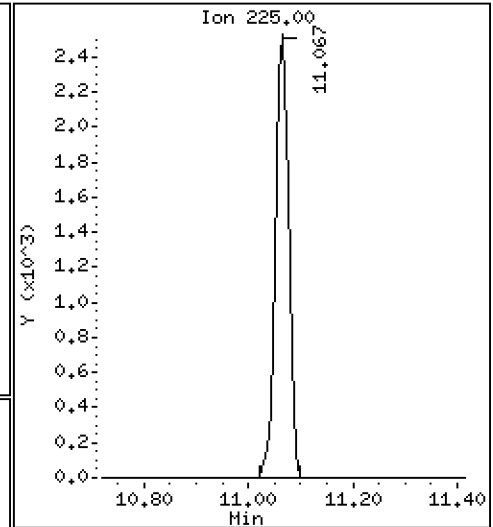
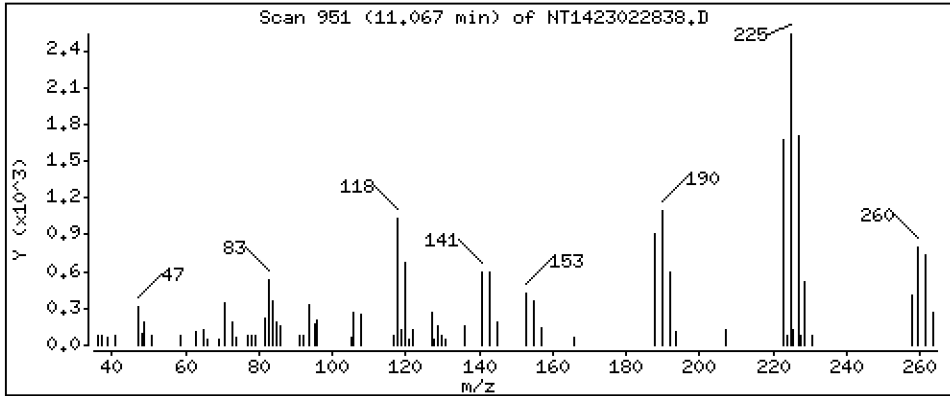
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

30 Hexachlorobutadiene

Concentration: 0.1778 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

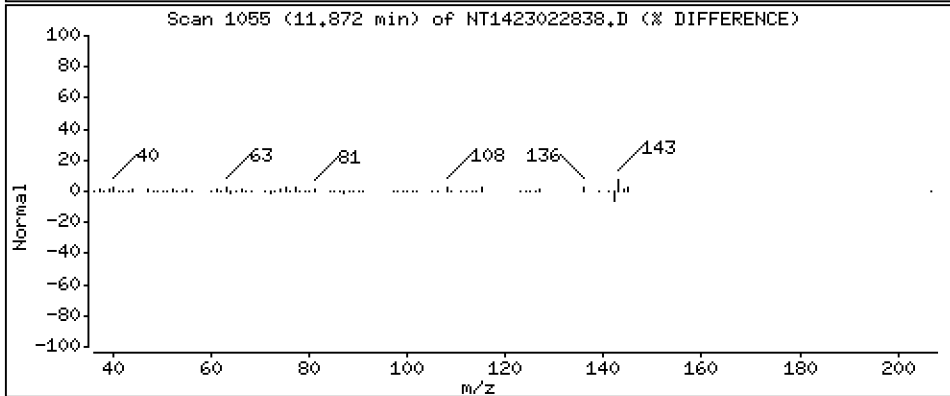
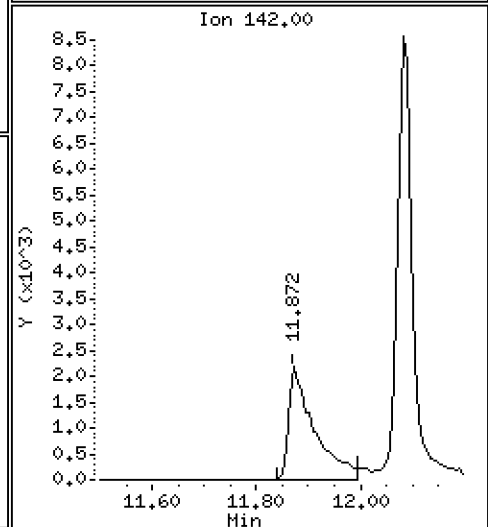
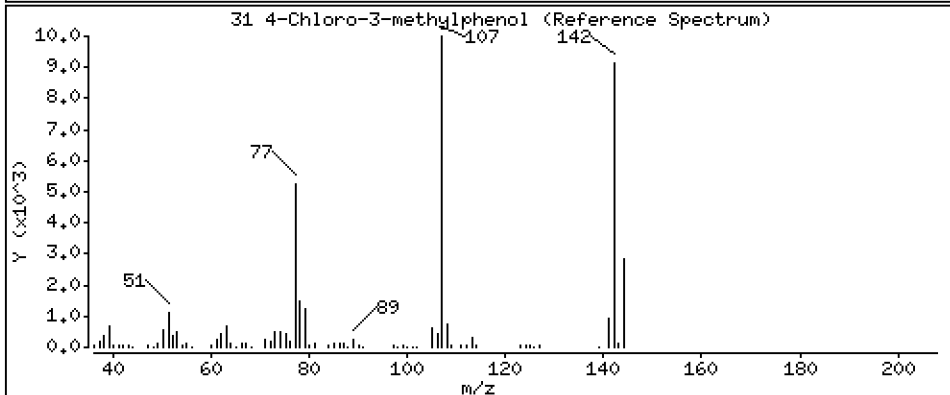
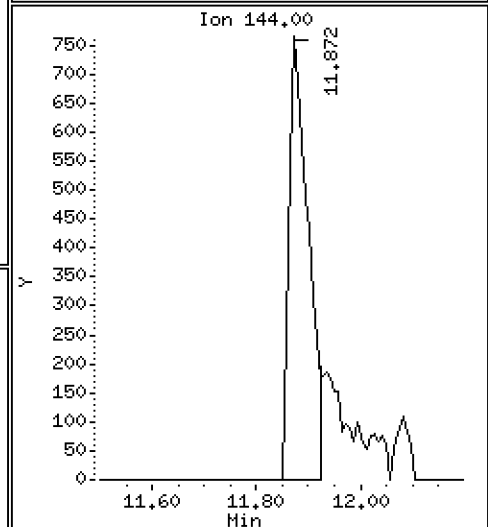
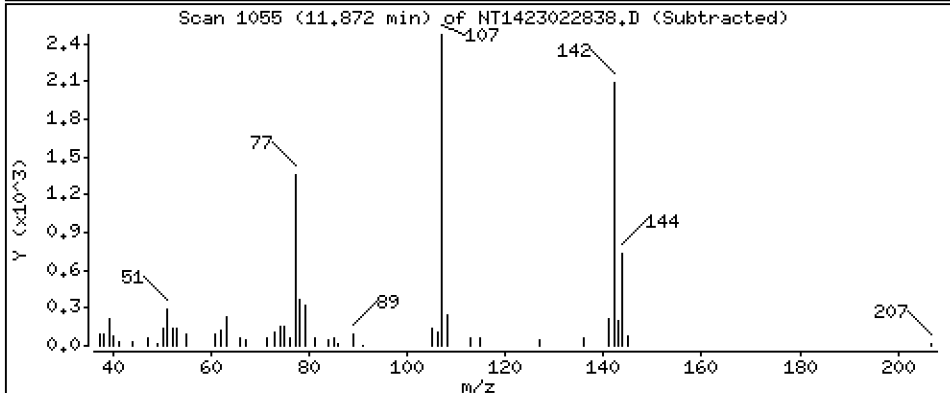
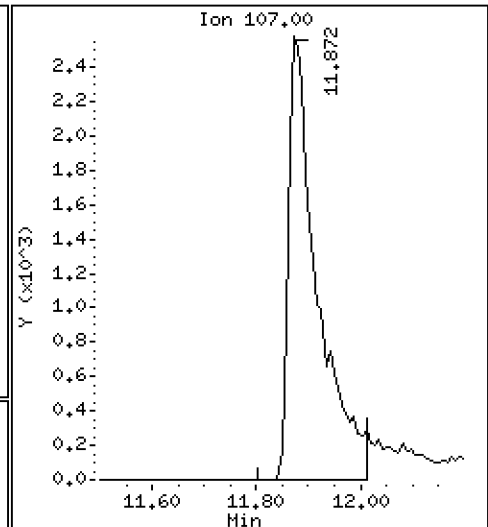
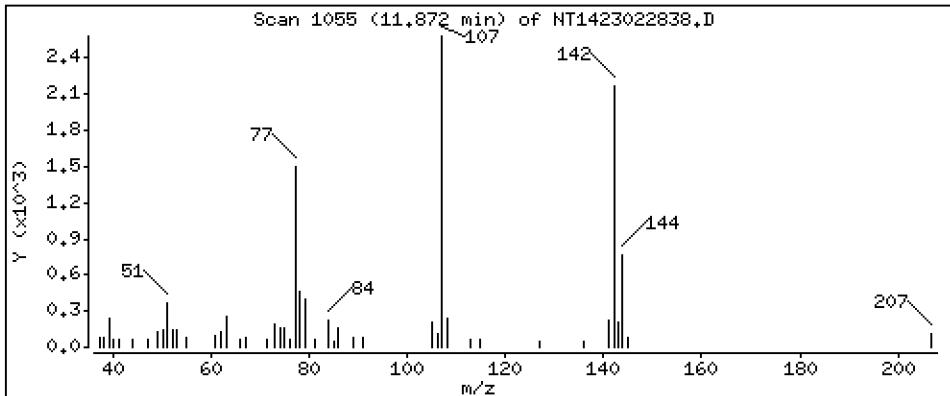
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

31 4-Chloro-3-methylphenol

Concentration: 0,3257 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

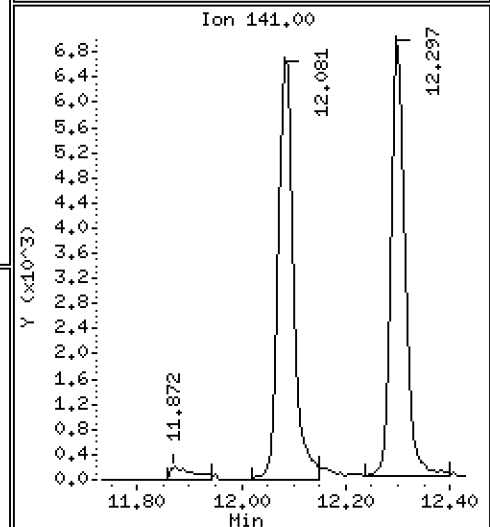
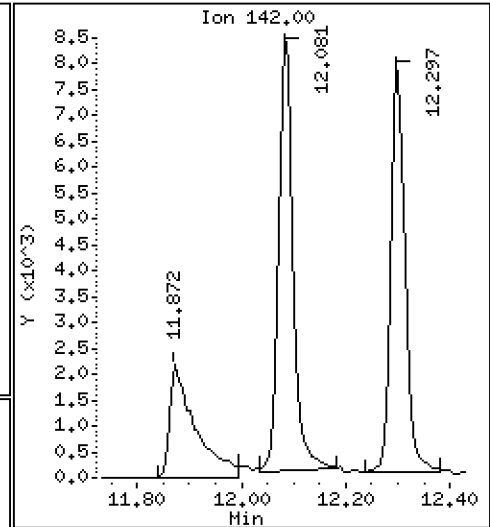
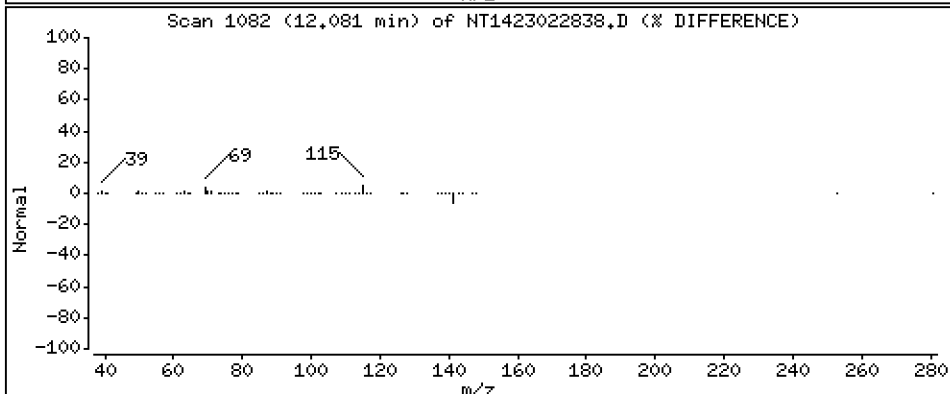
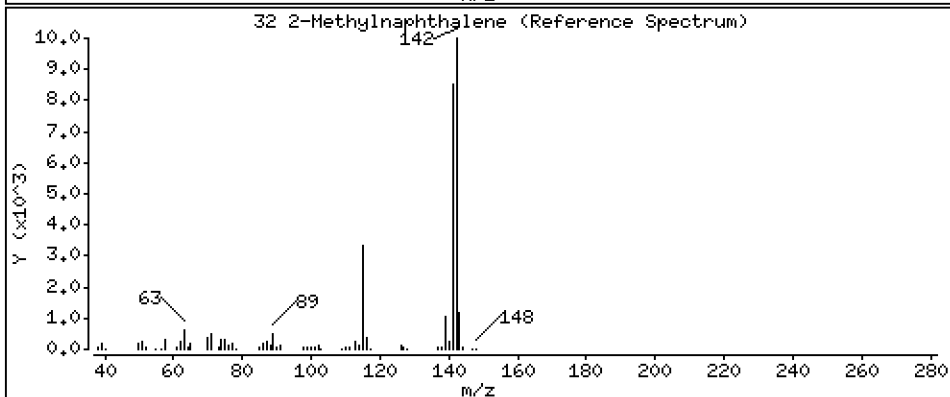
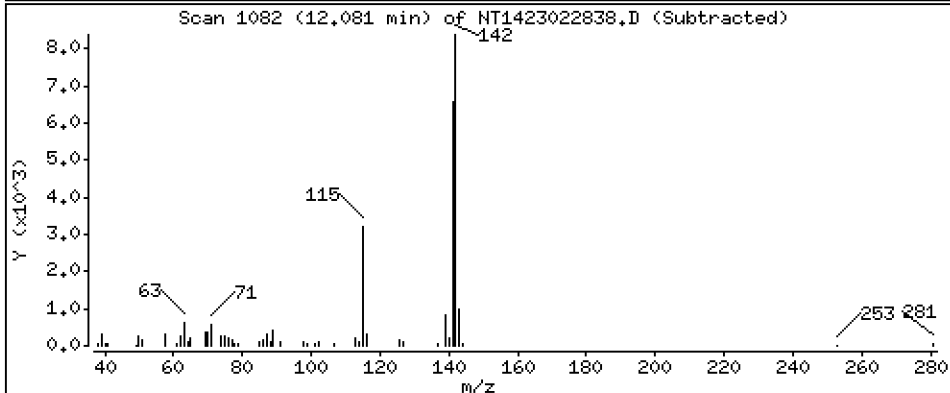
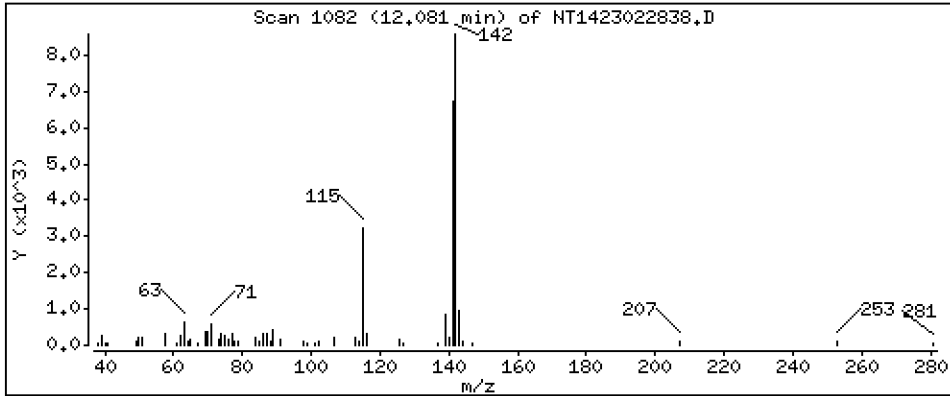
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 0,1925 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

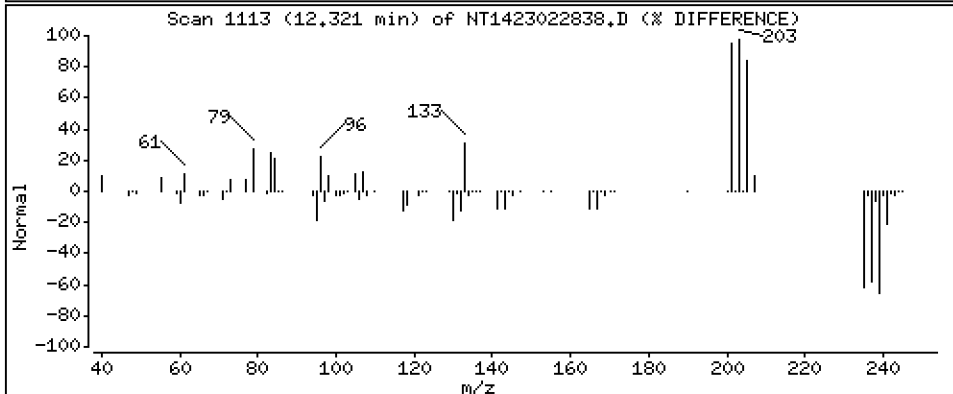
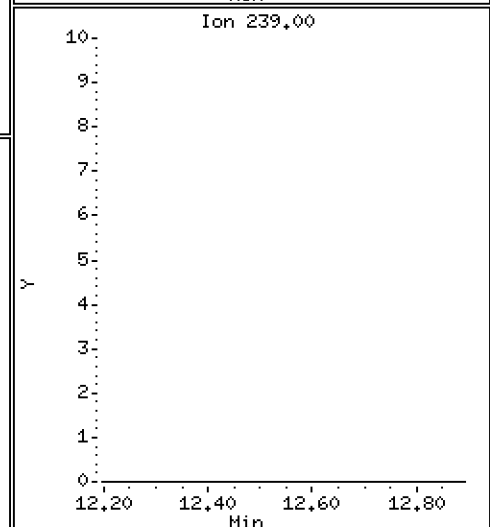
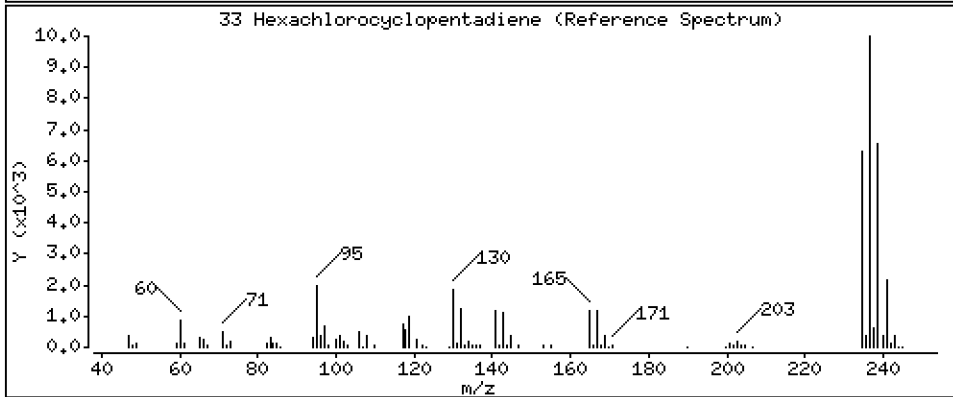
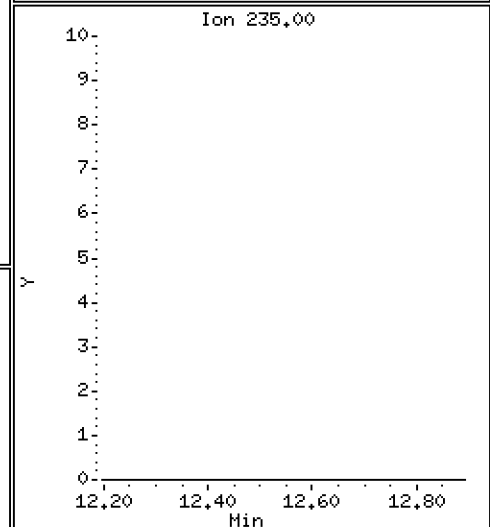
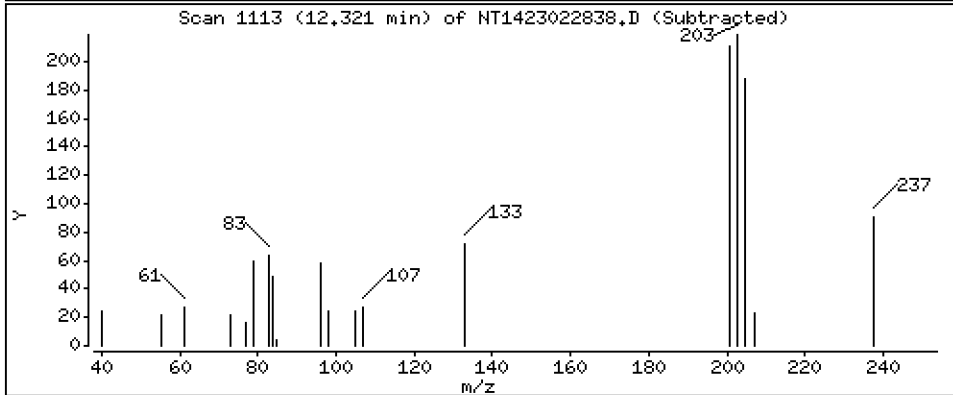
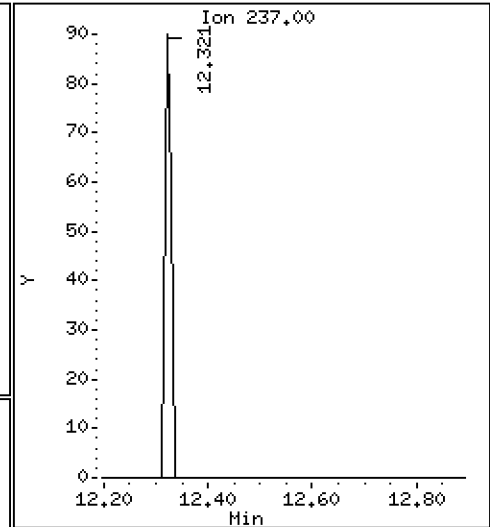
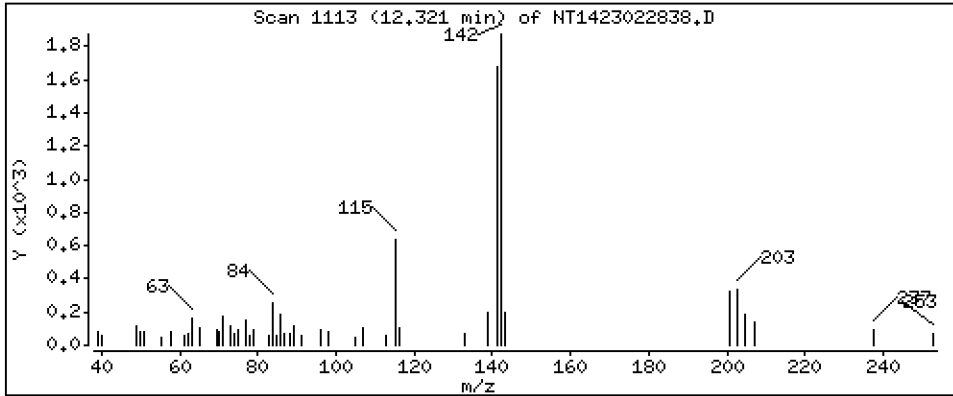
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

33 Hexachlorocyclopentadiene

Concentration: 0,002849 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

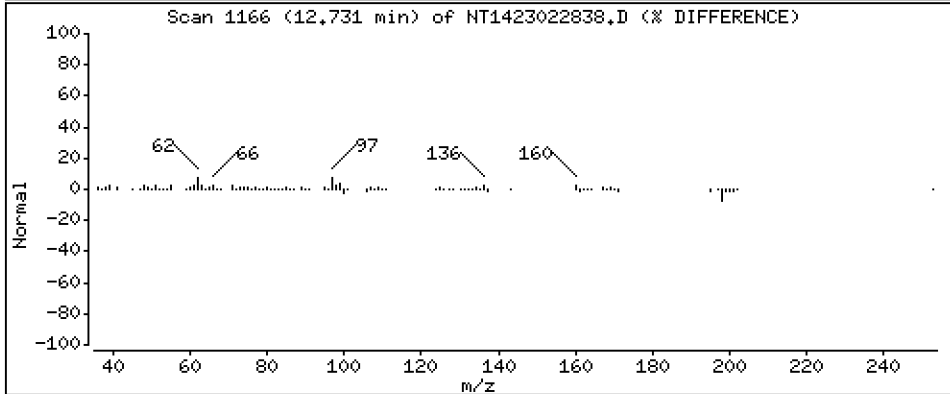
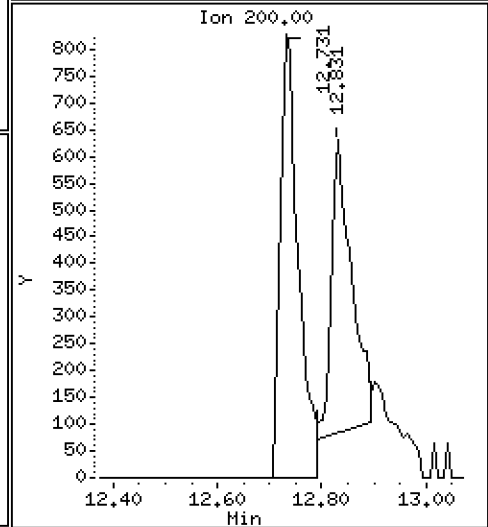
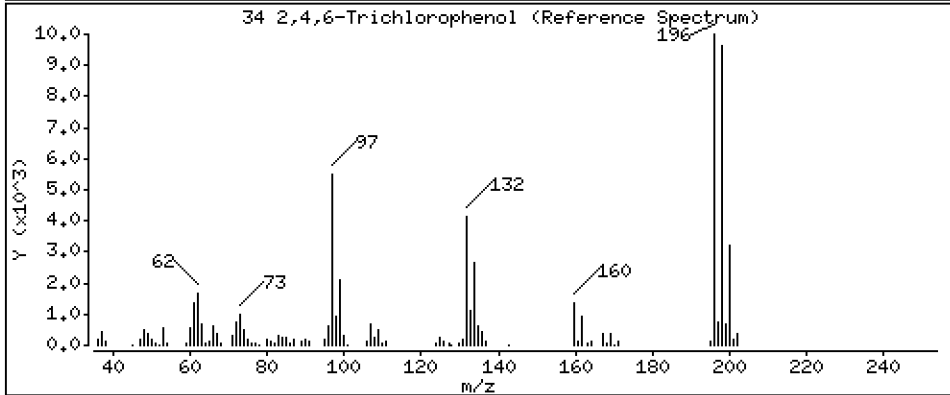
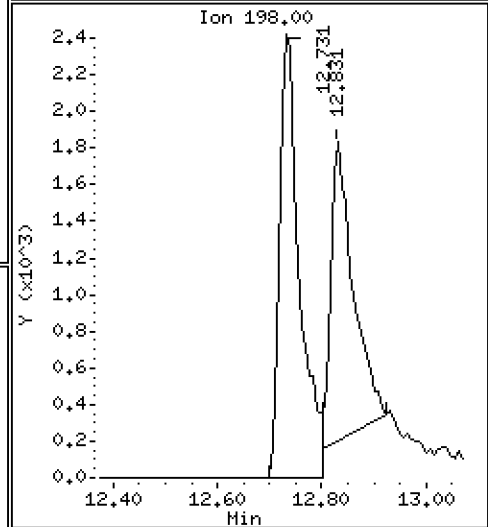
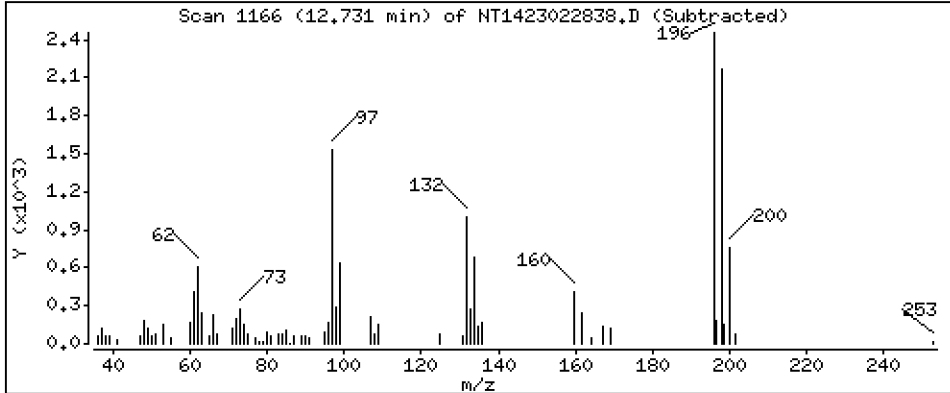
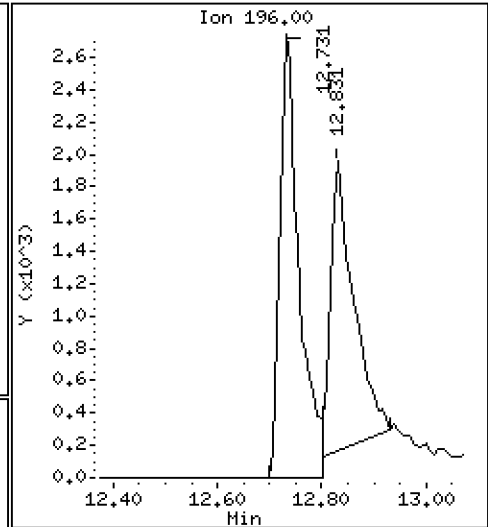
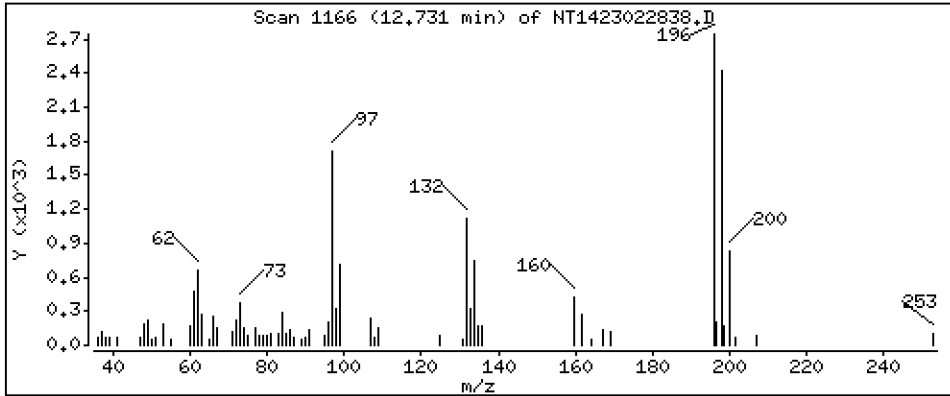
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

34 2,4,6-Trichlorophenol

Concentration: 0,3161 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

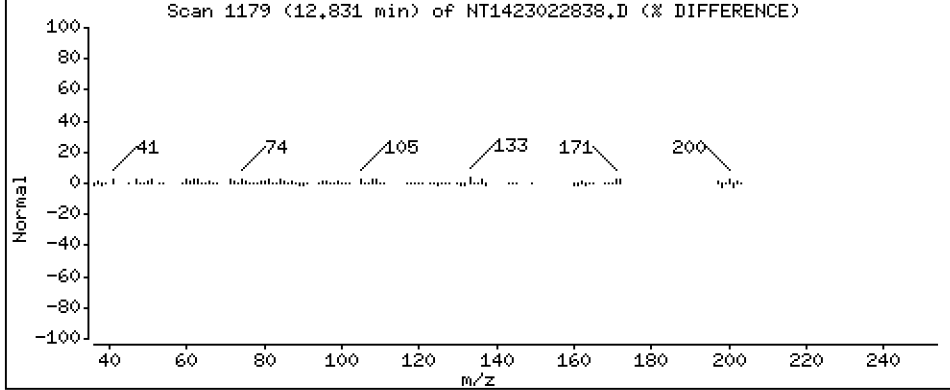
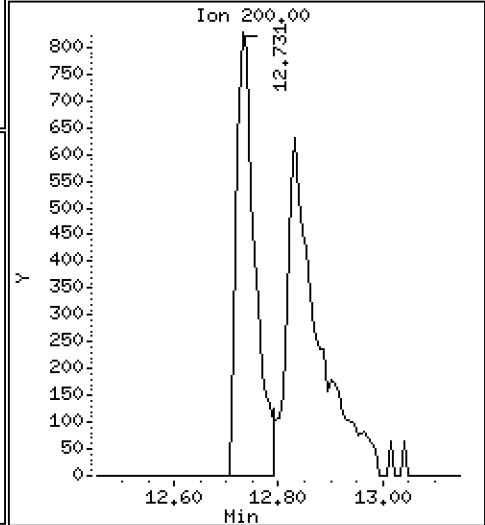
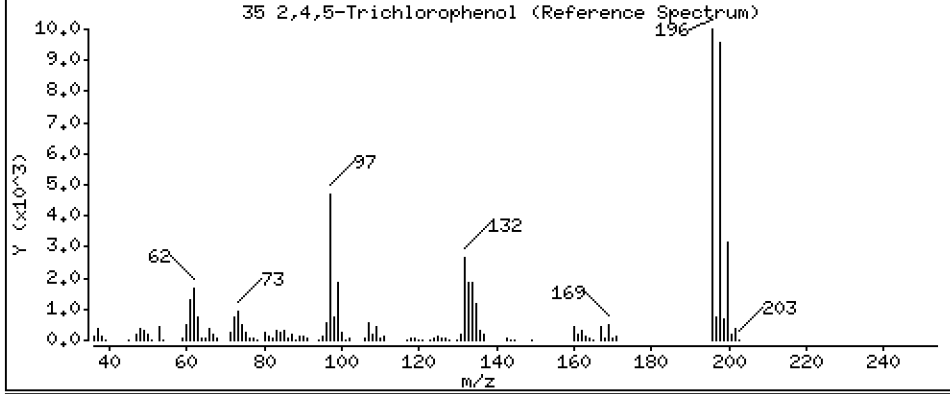
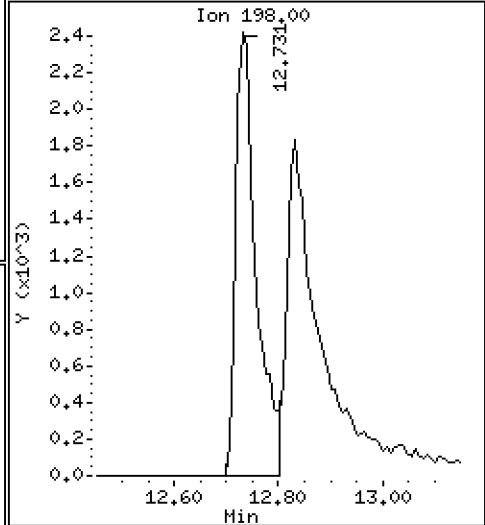
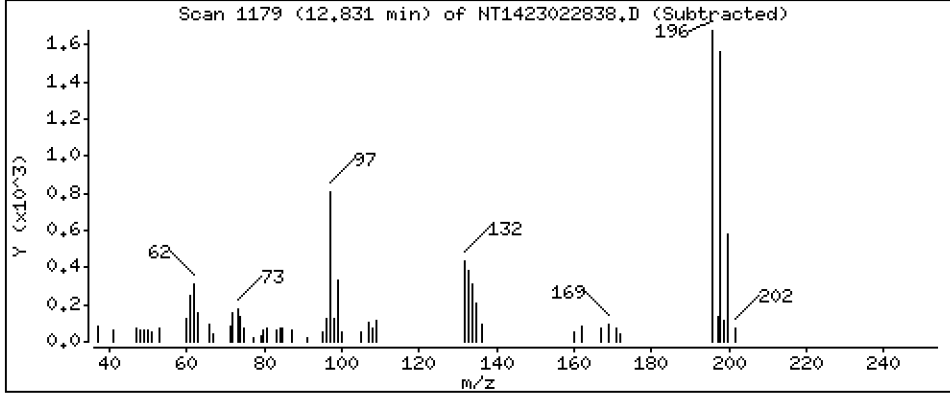
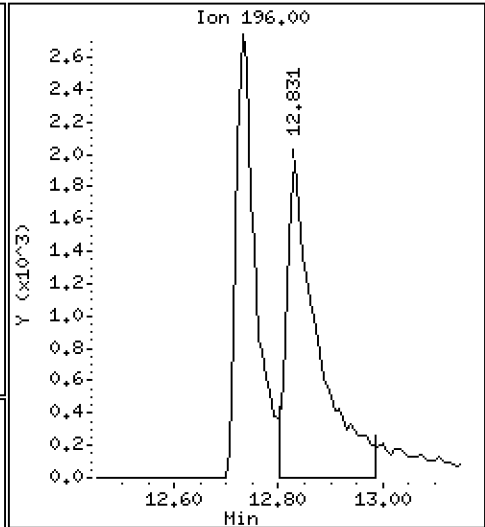
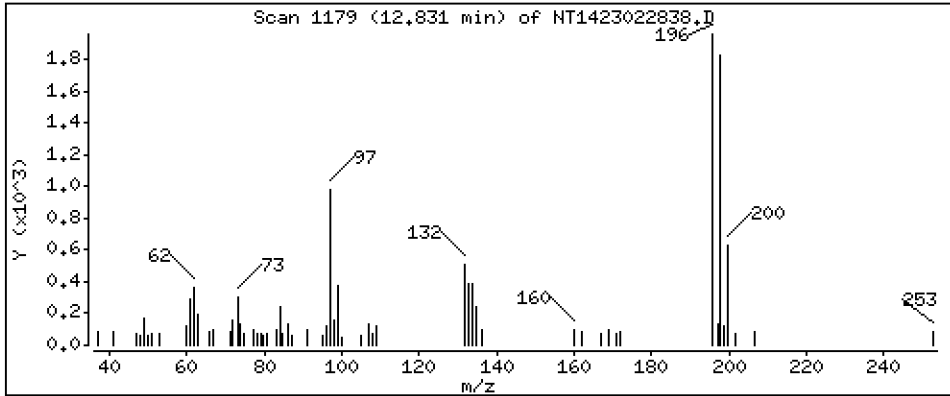
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

35 2,4,5-Trichlorophenol

Concentration: 0,3462 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

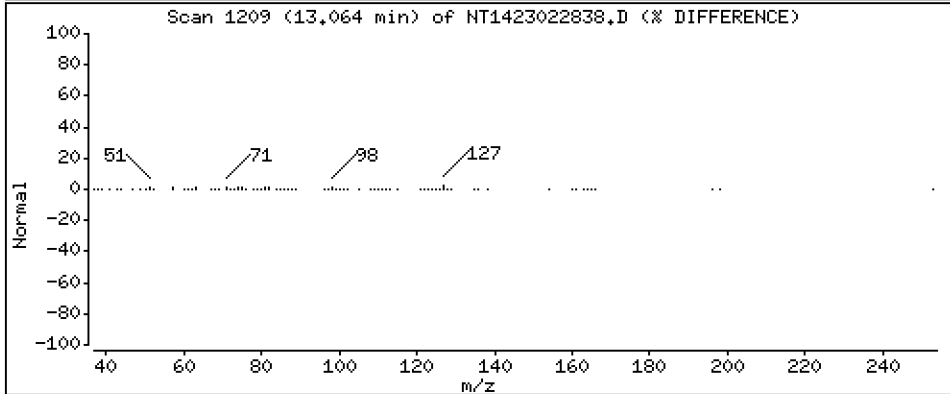
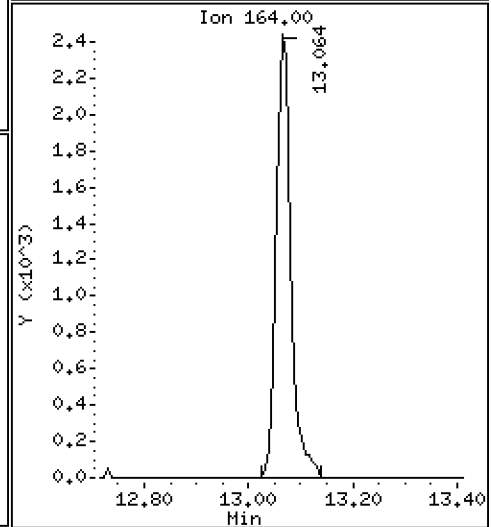
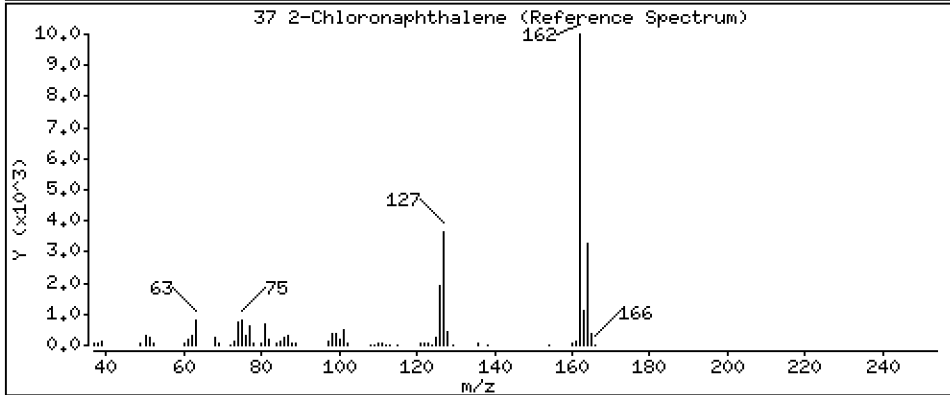
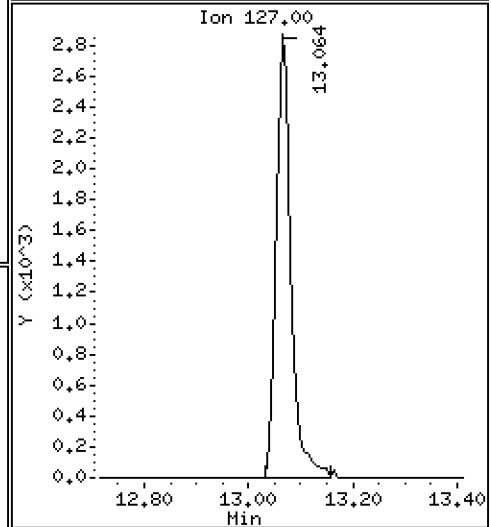
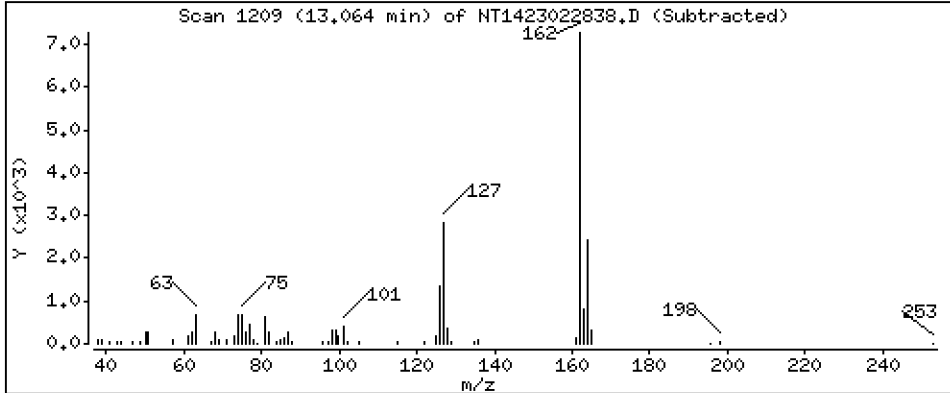
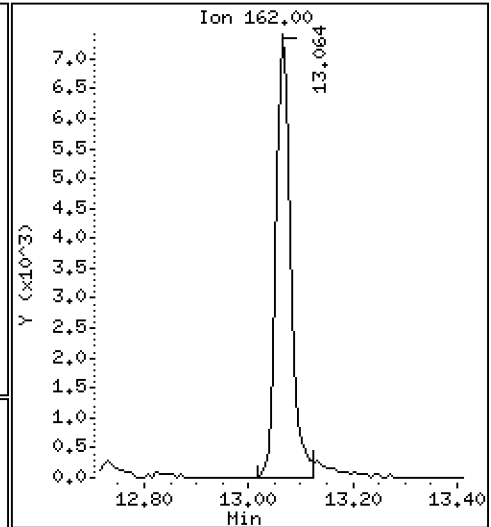
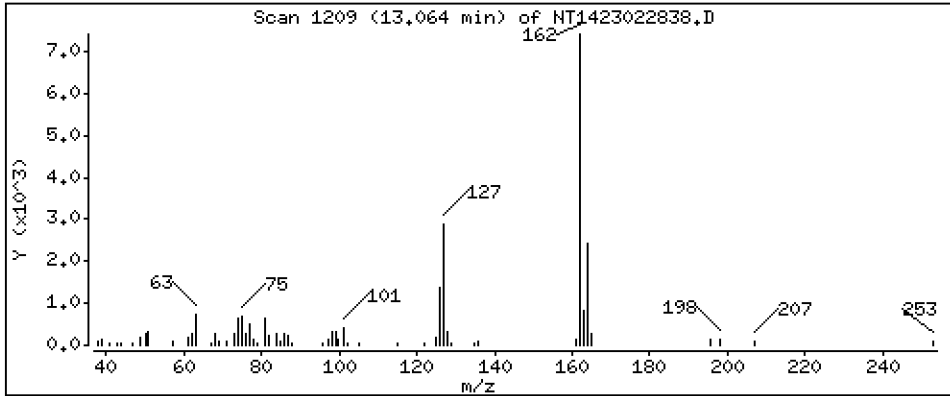
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

37 2-Chloronaphthalene

Concentration: 0,1970 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

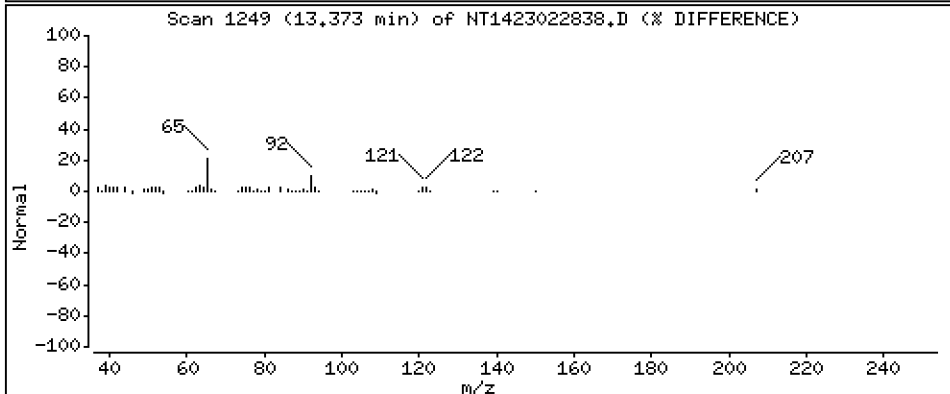
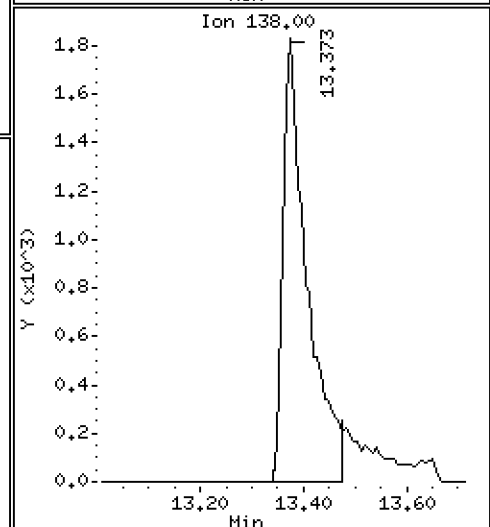
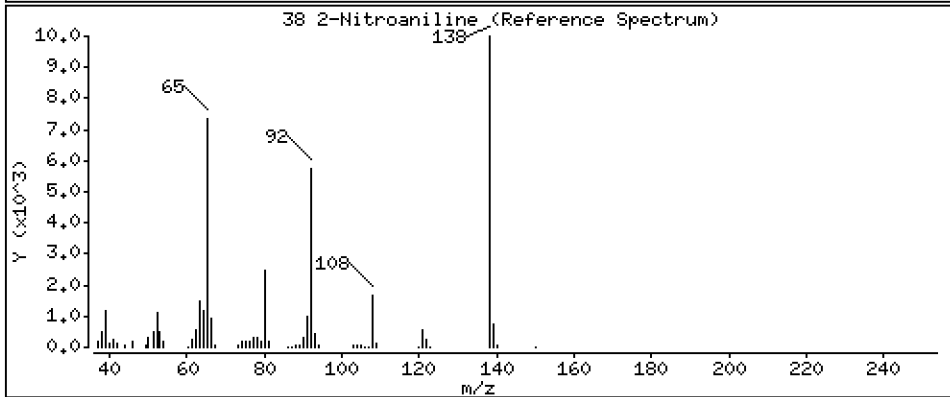
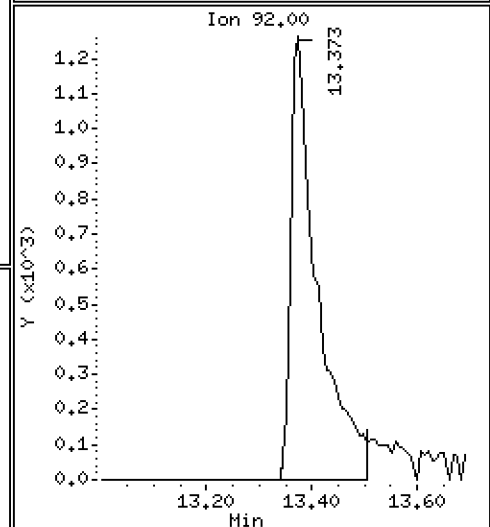
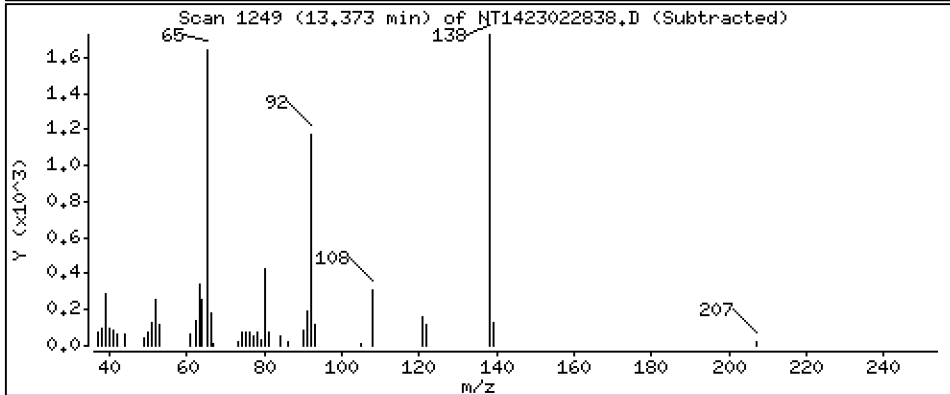
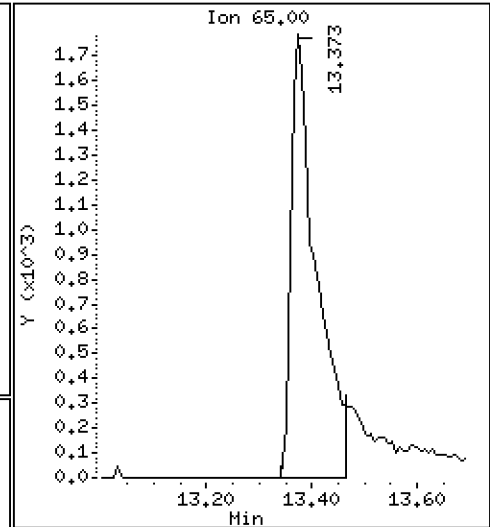
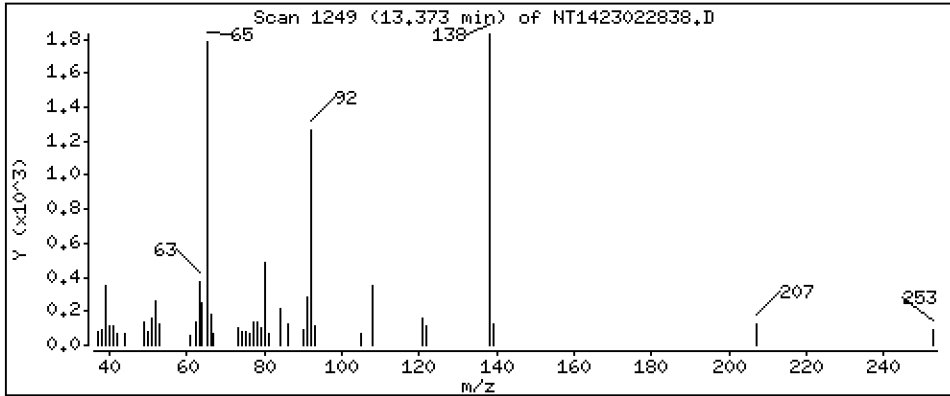
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

38 2-Nitroaniline

Concentration: 0,3308 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

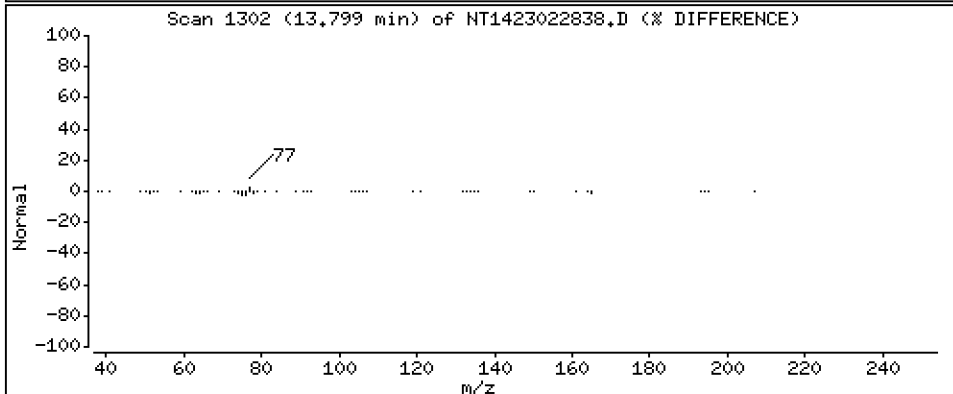
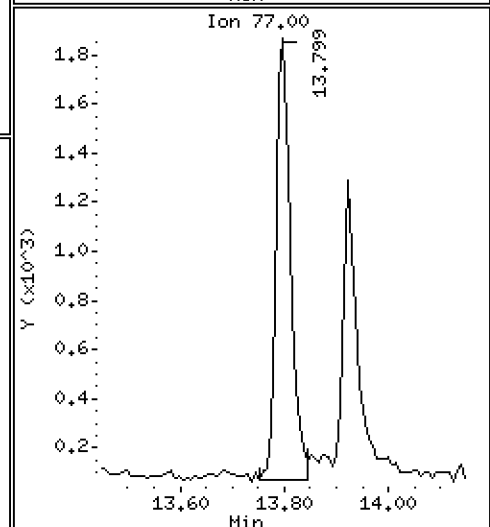
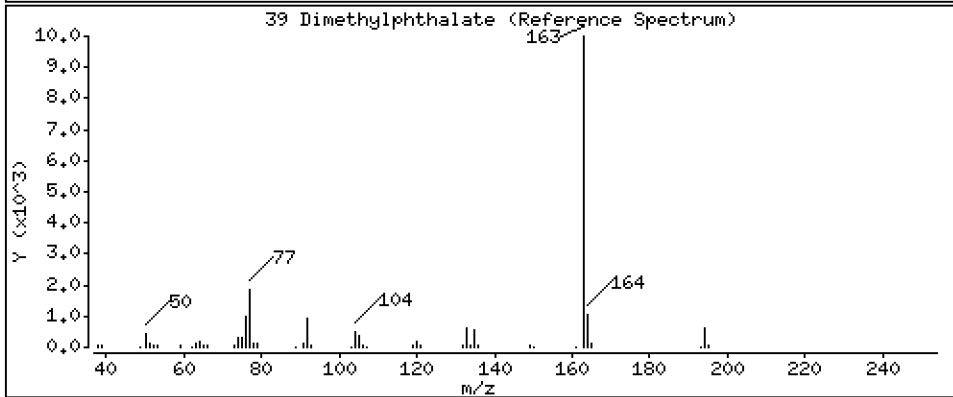
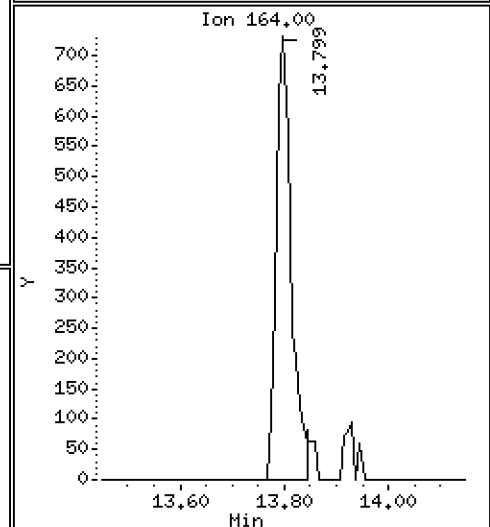
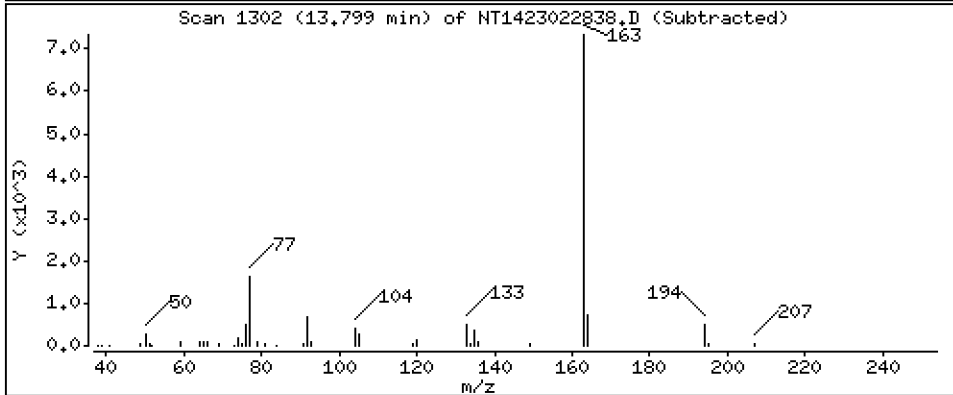
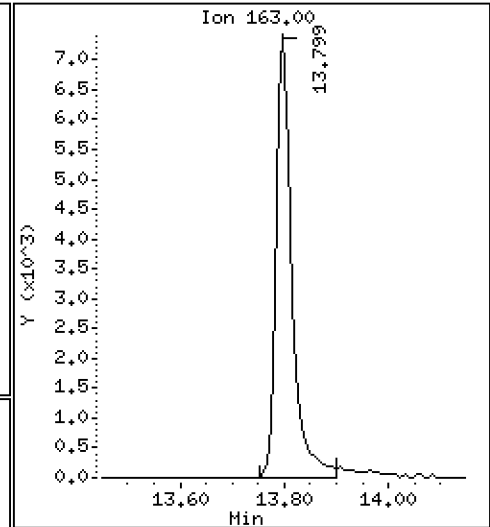
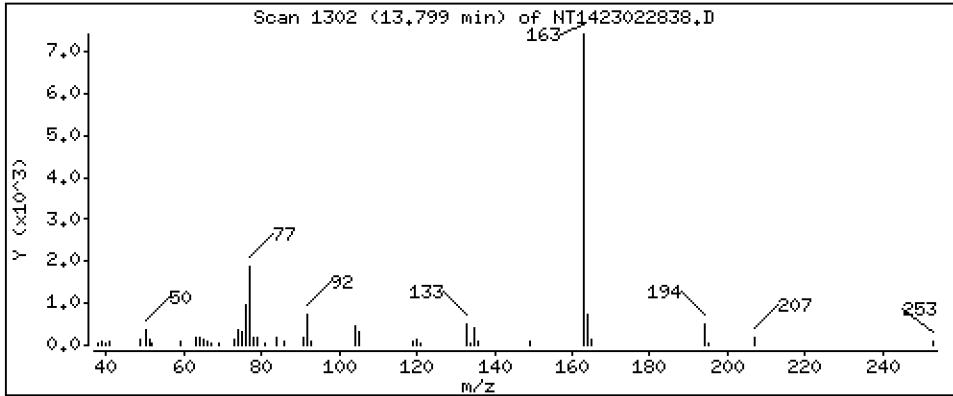
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 0,2095 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

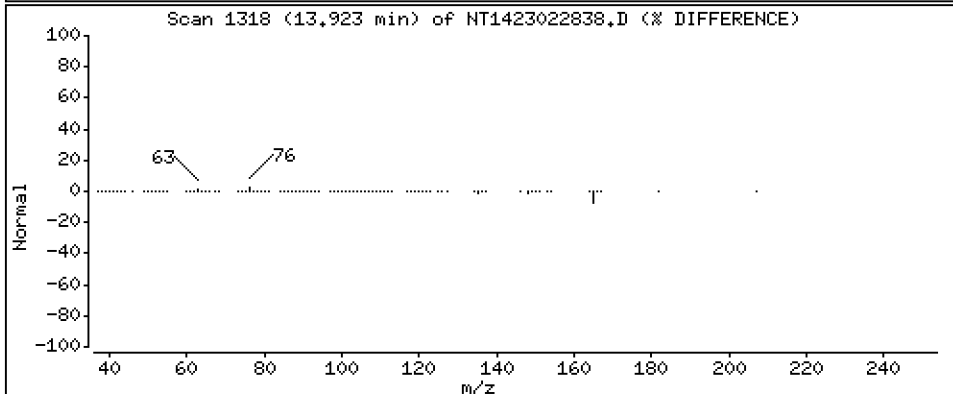
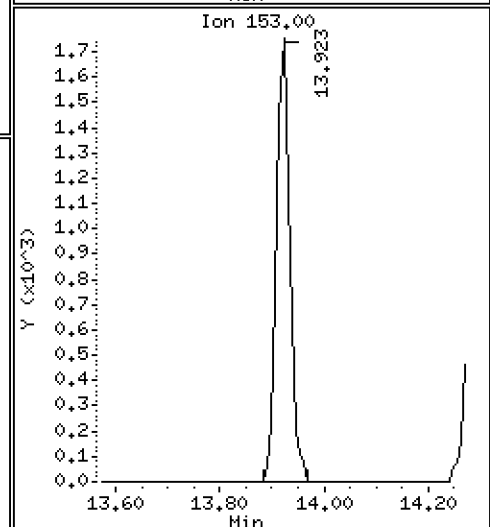
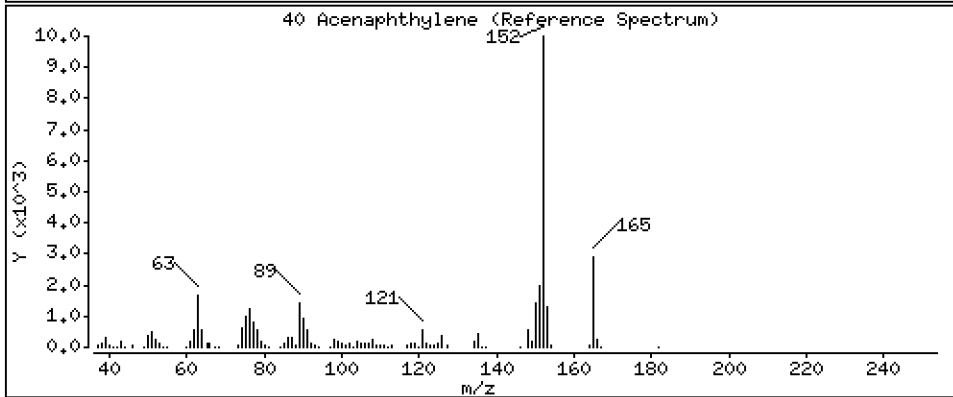
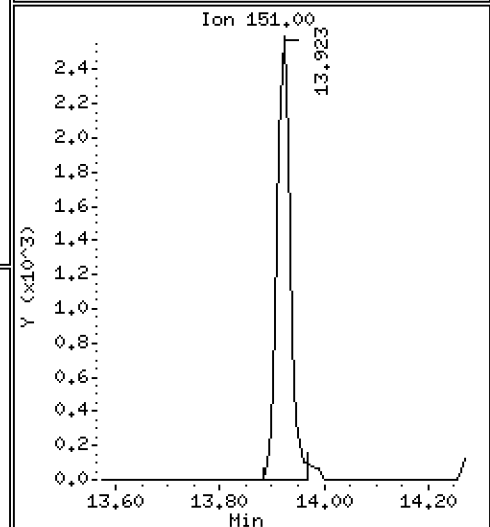
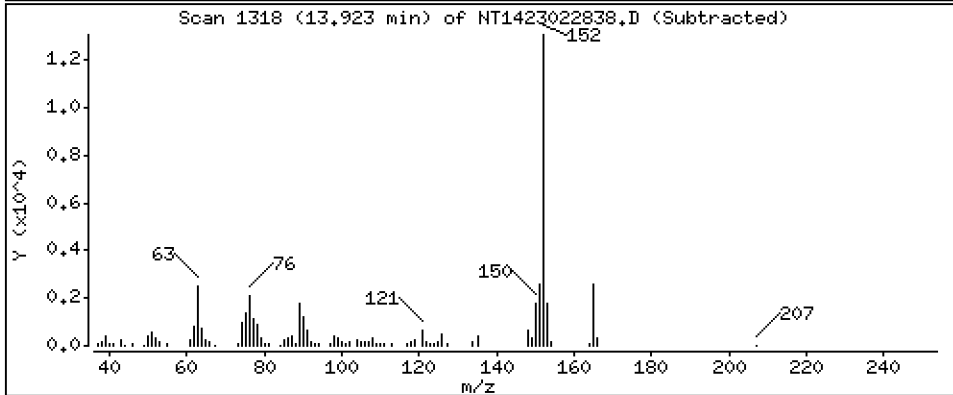
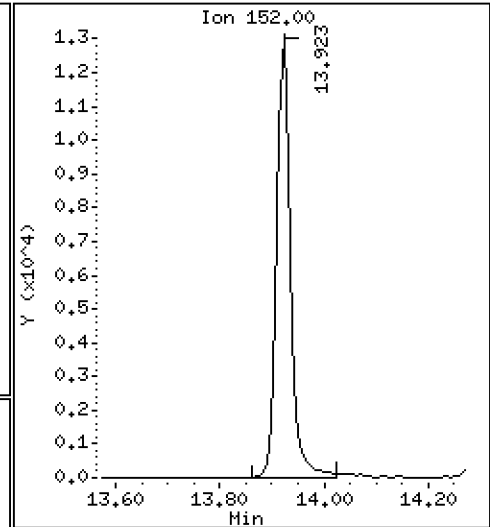
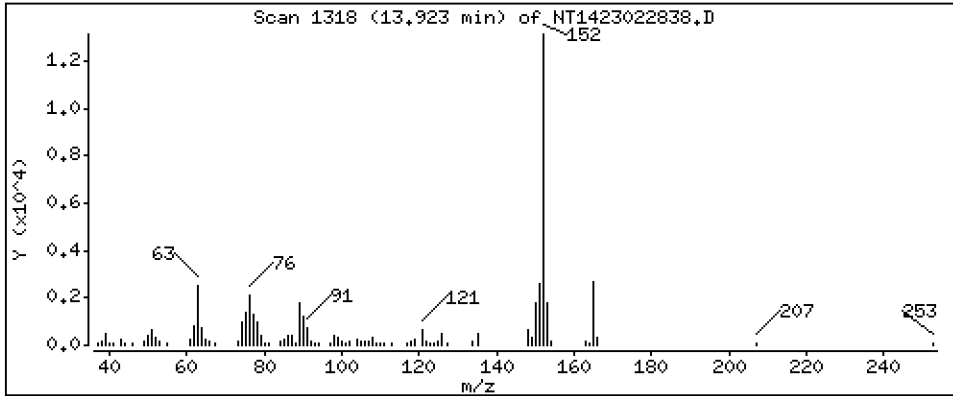
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 0,2206 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

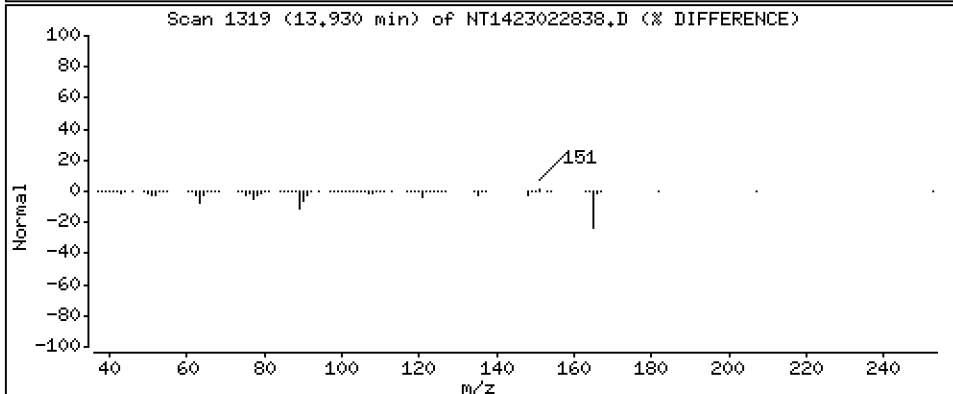
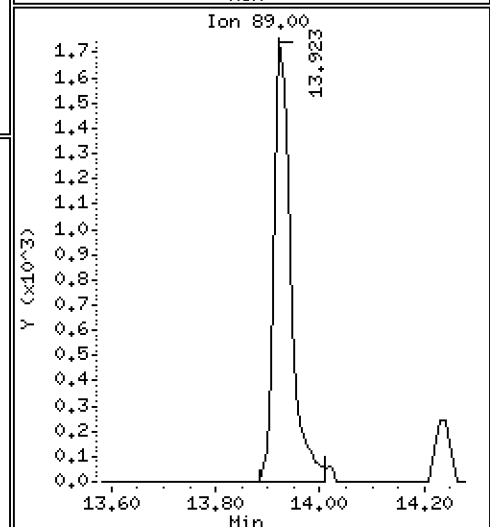
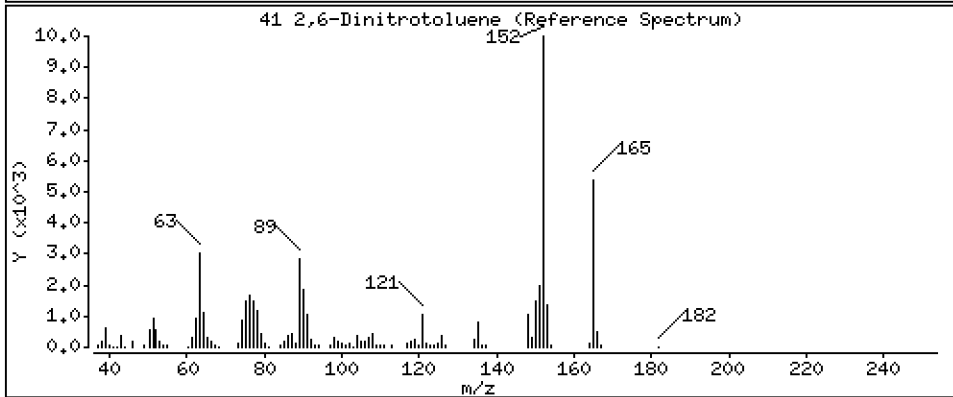
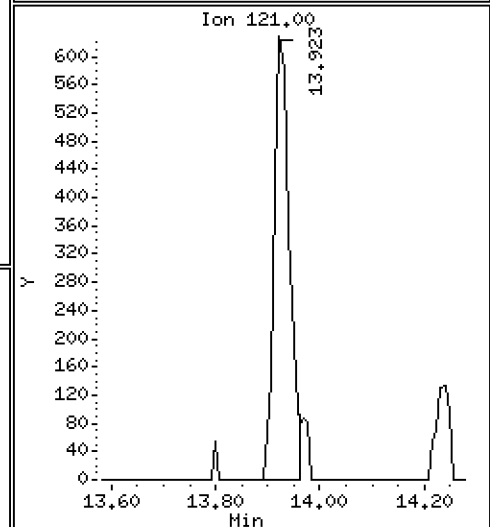
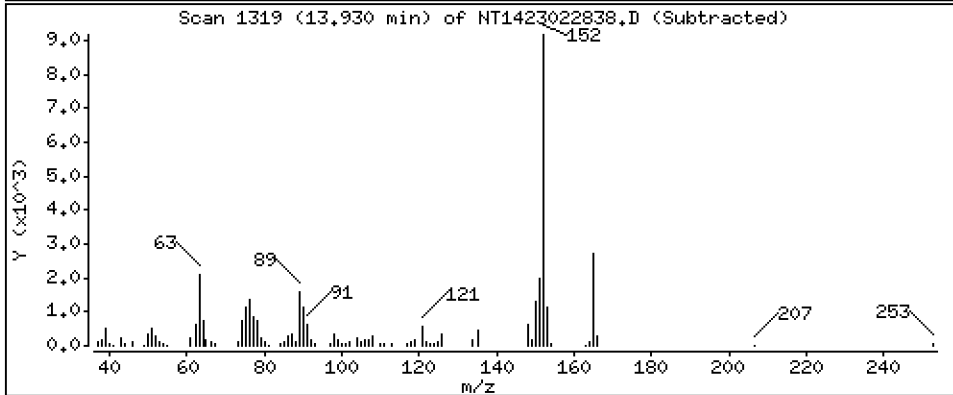
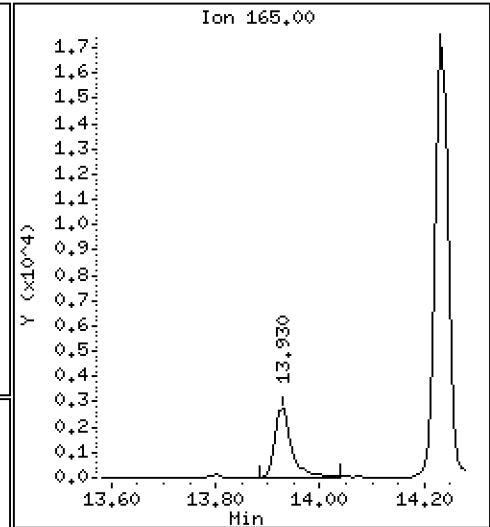
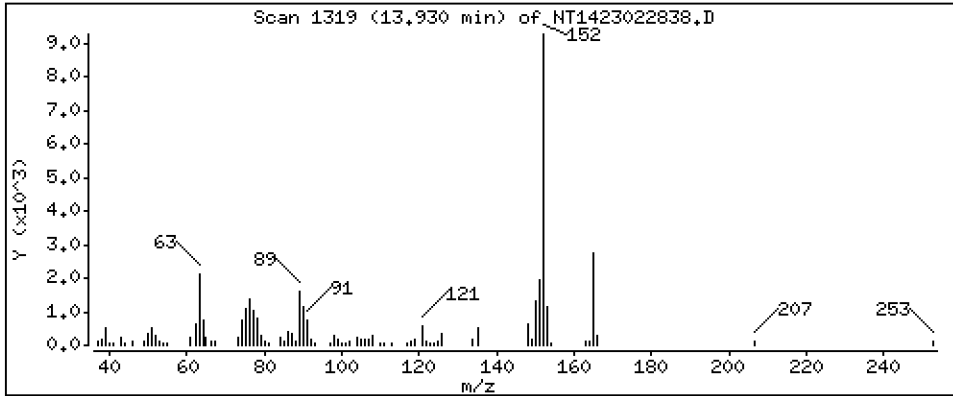
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

41 2,6-Dinitrotoluene

Concentration: 0.3629 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

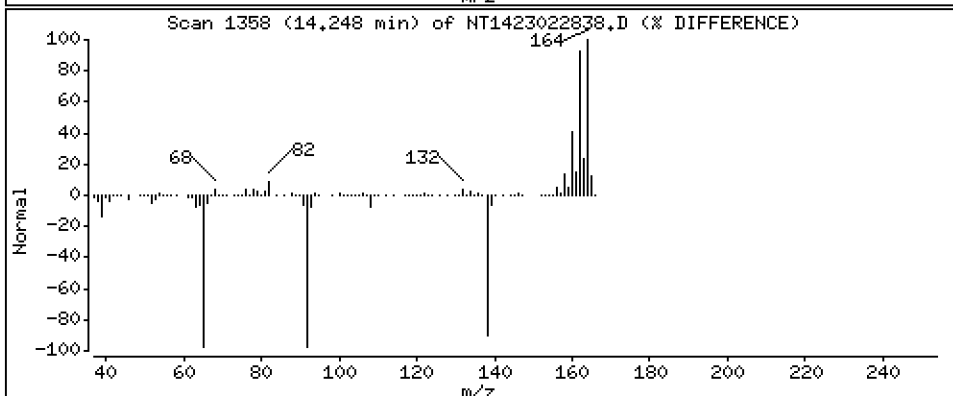
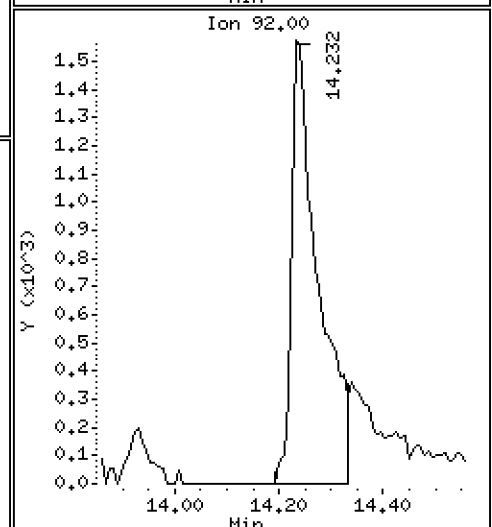
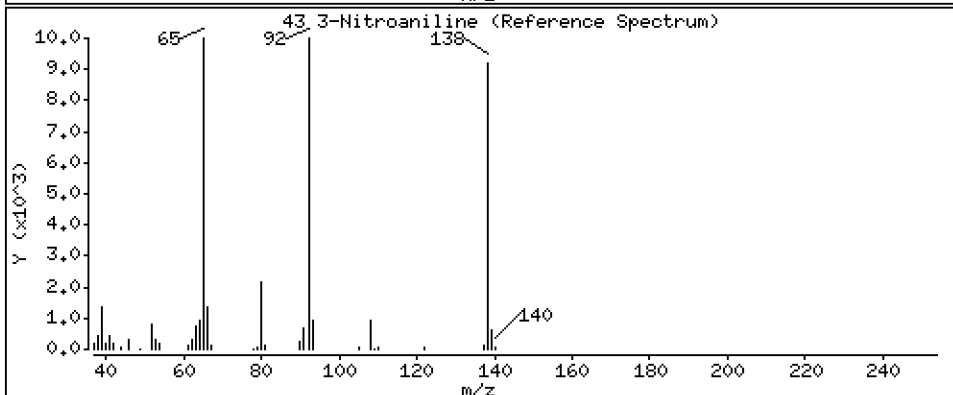
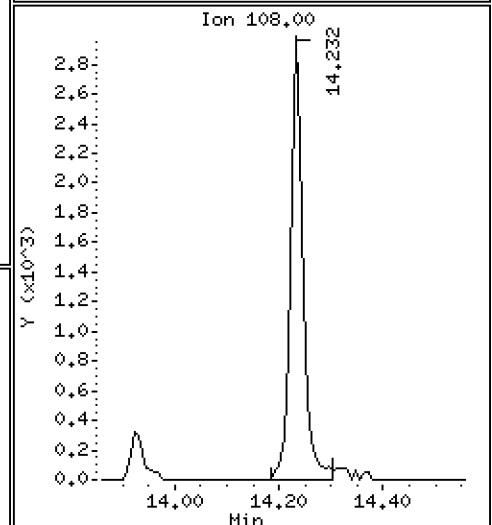
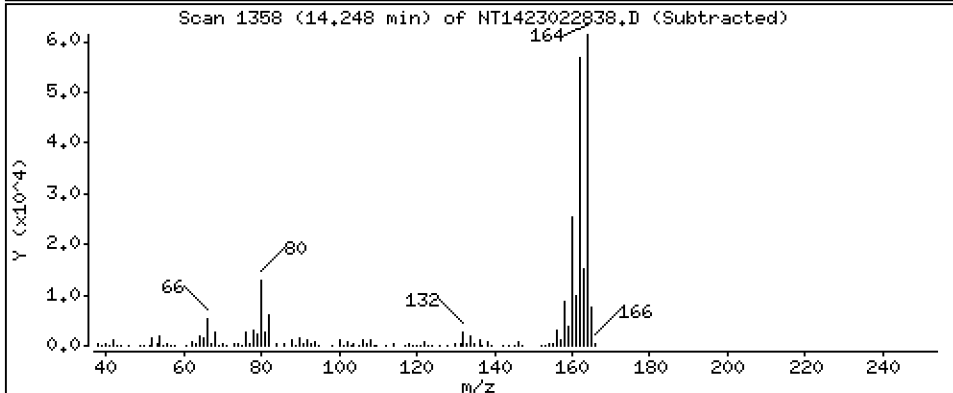
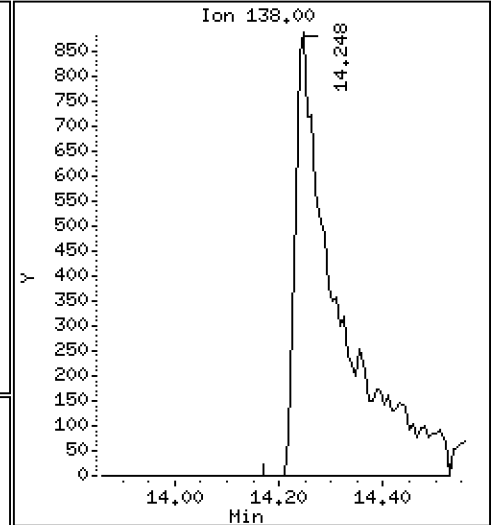
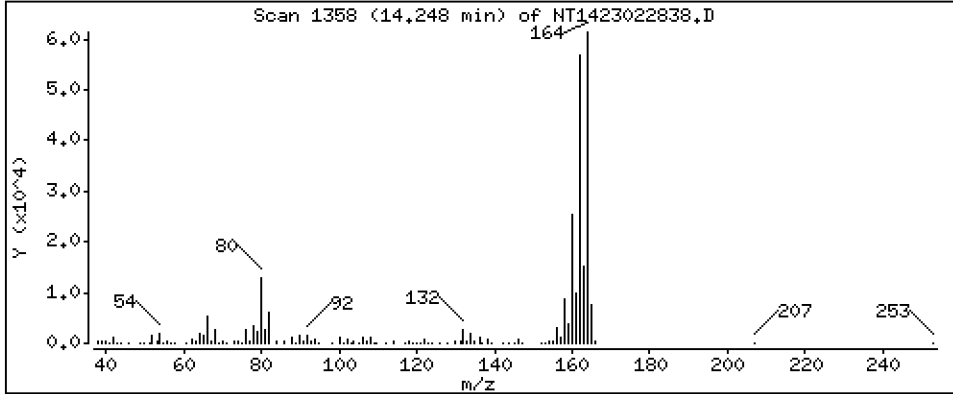
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

43 3-Nitroaniline

Concentration: 0,2929 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

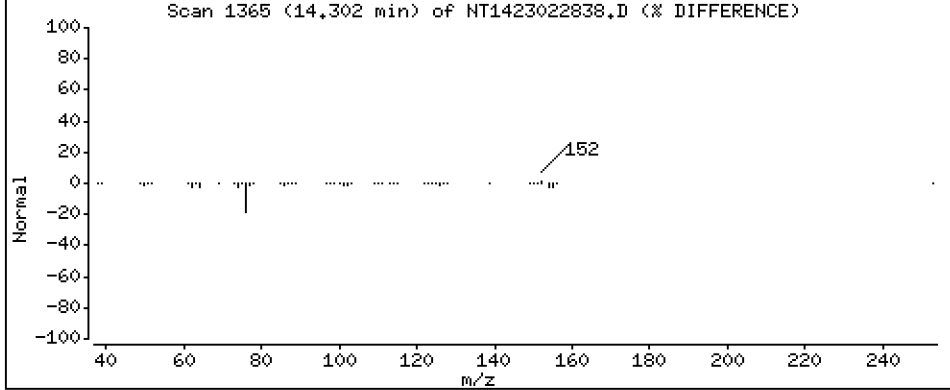
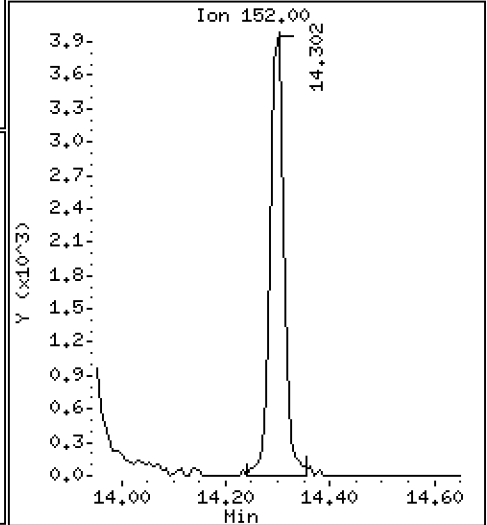
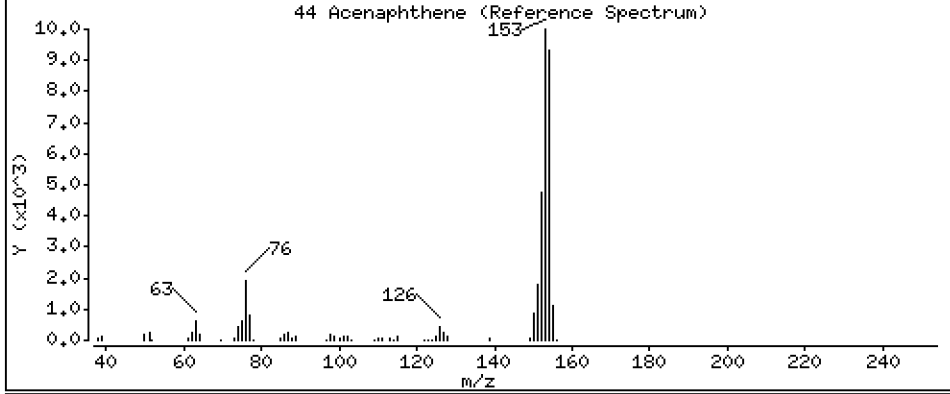
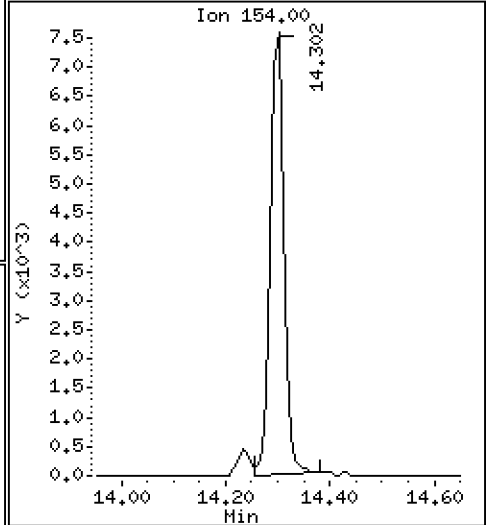
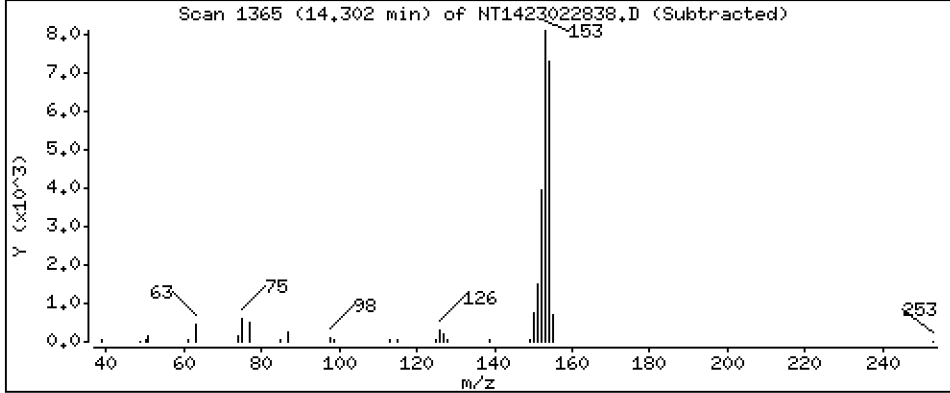
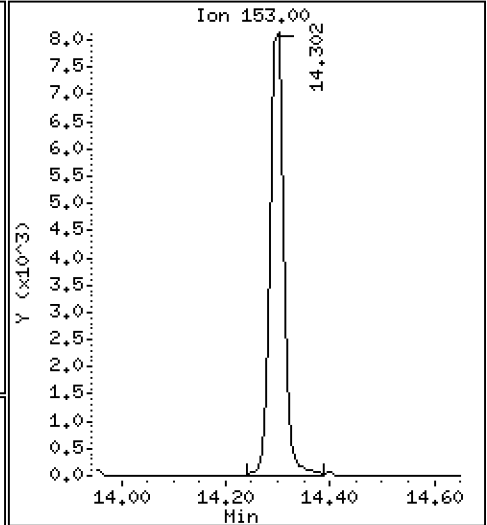
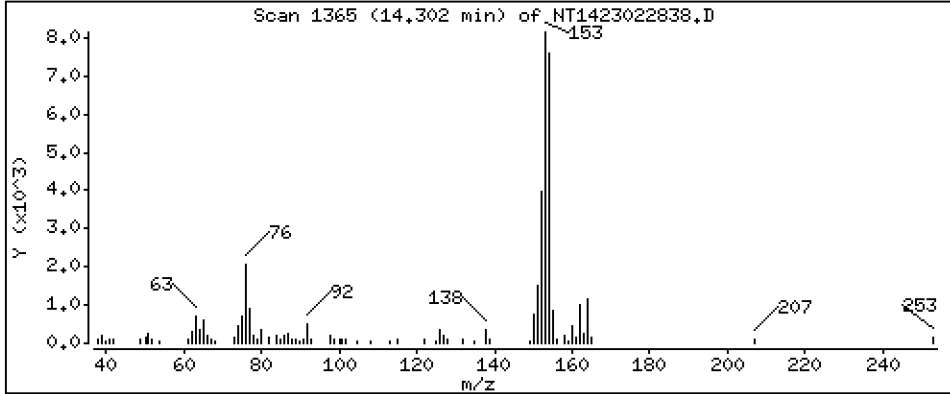
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 0,2124 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

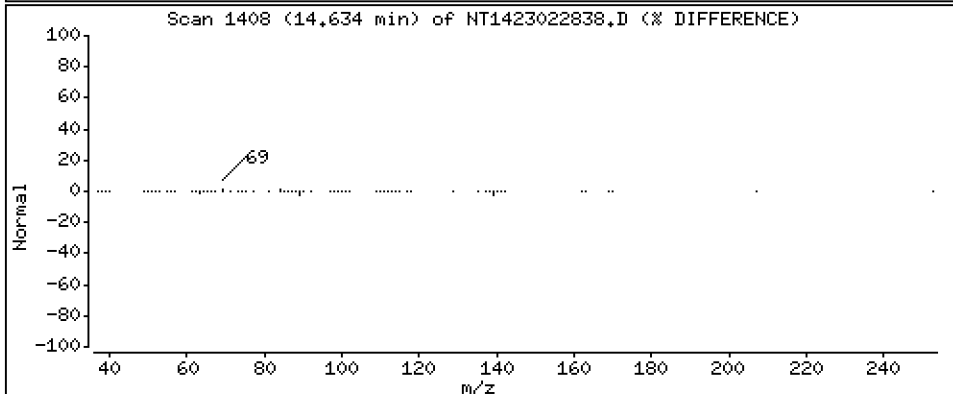
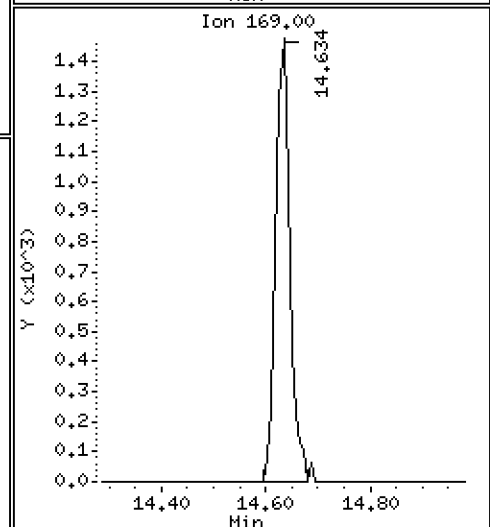
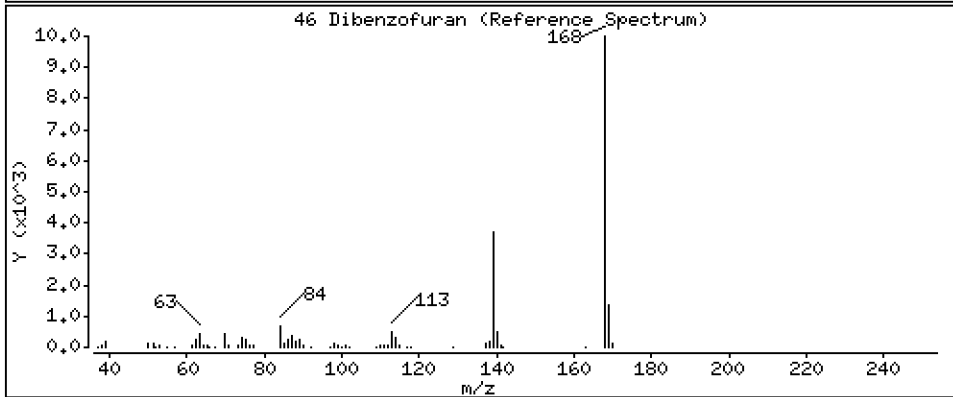
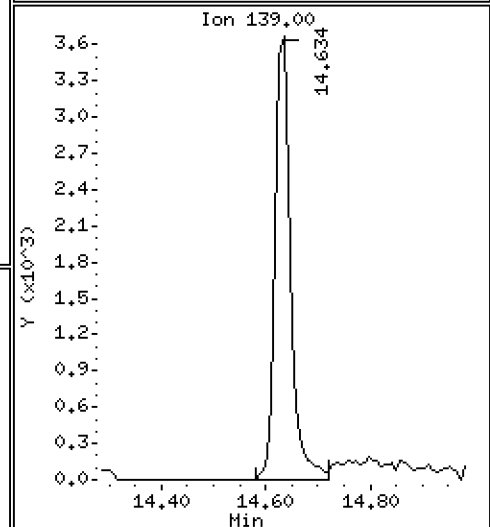
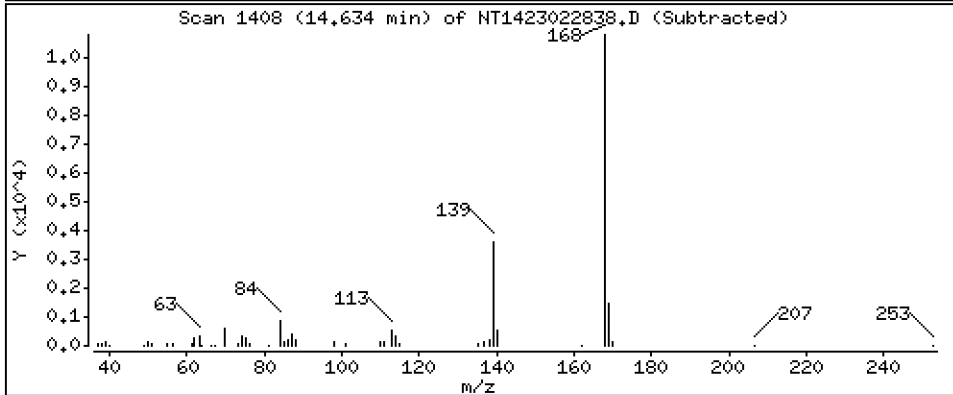
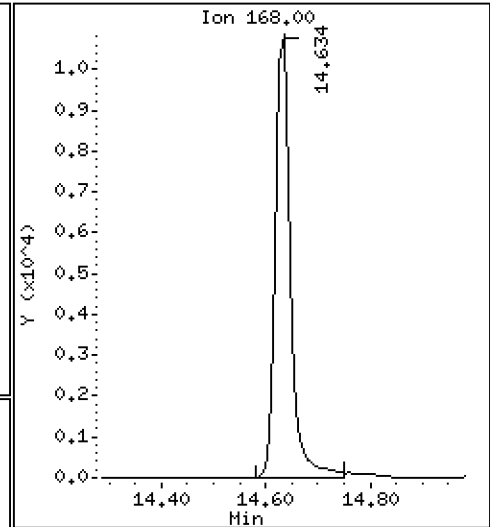
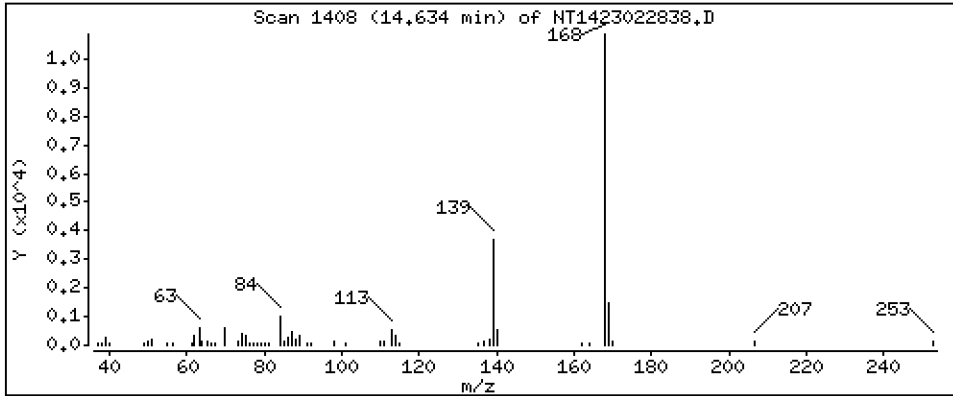
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 0,1981 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

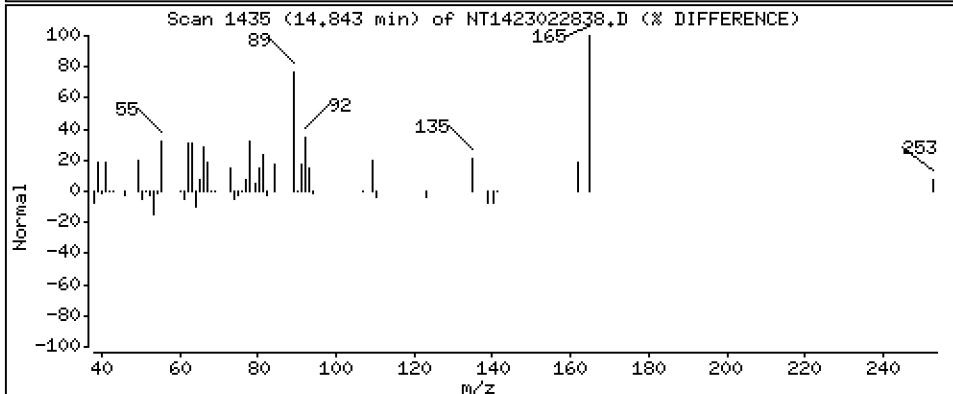
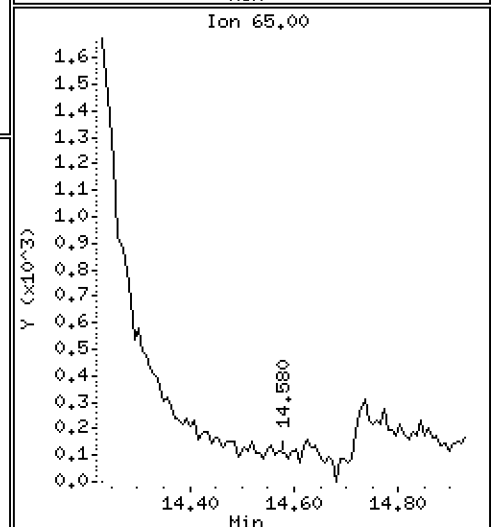
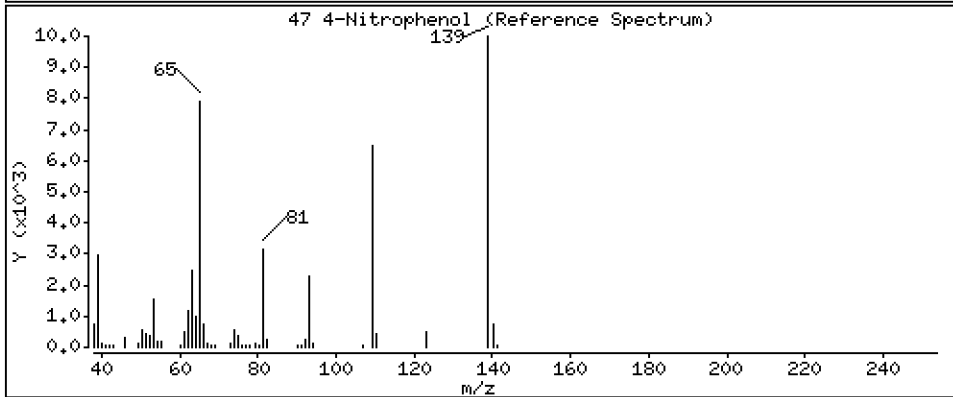
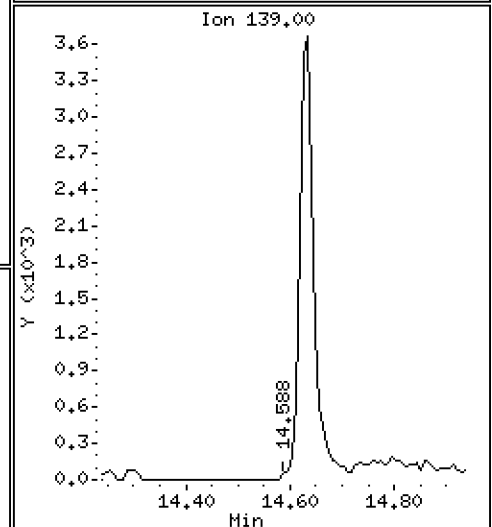
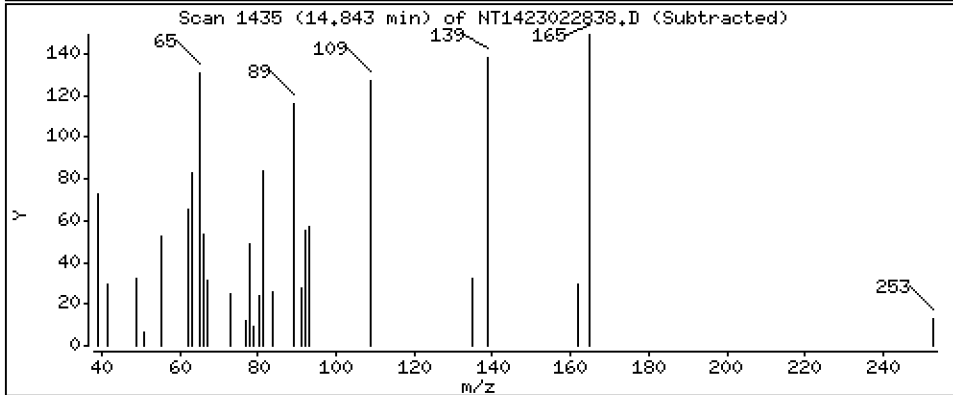
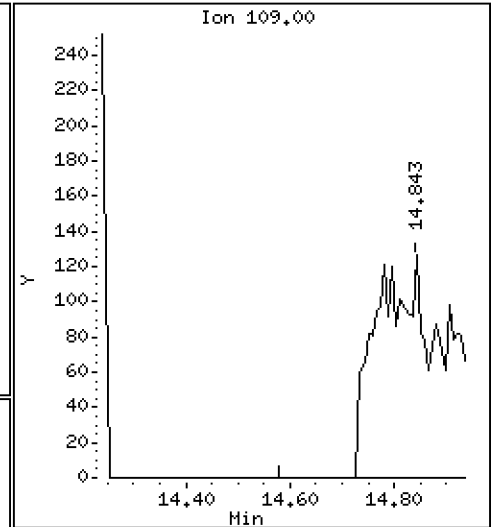
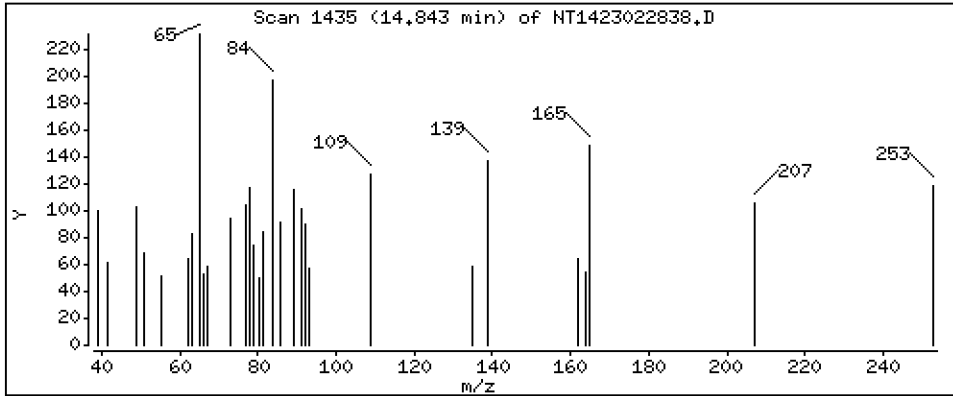
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

47 4-Nitrophenol

Concentration: 0.2077 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

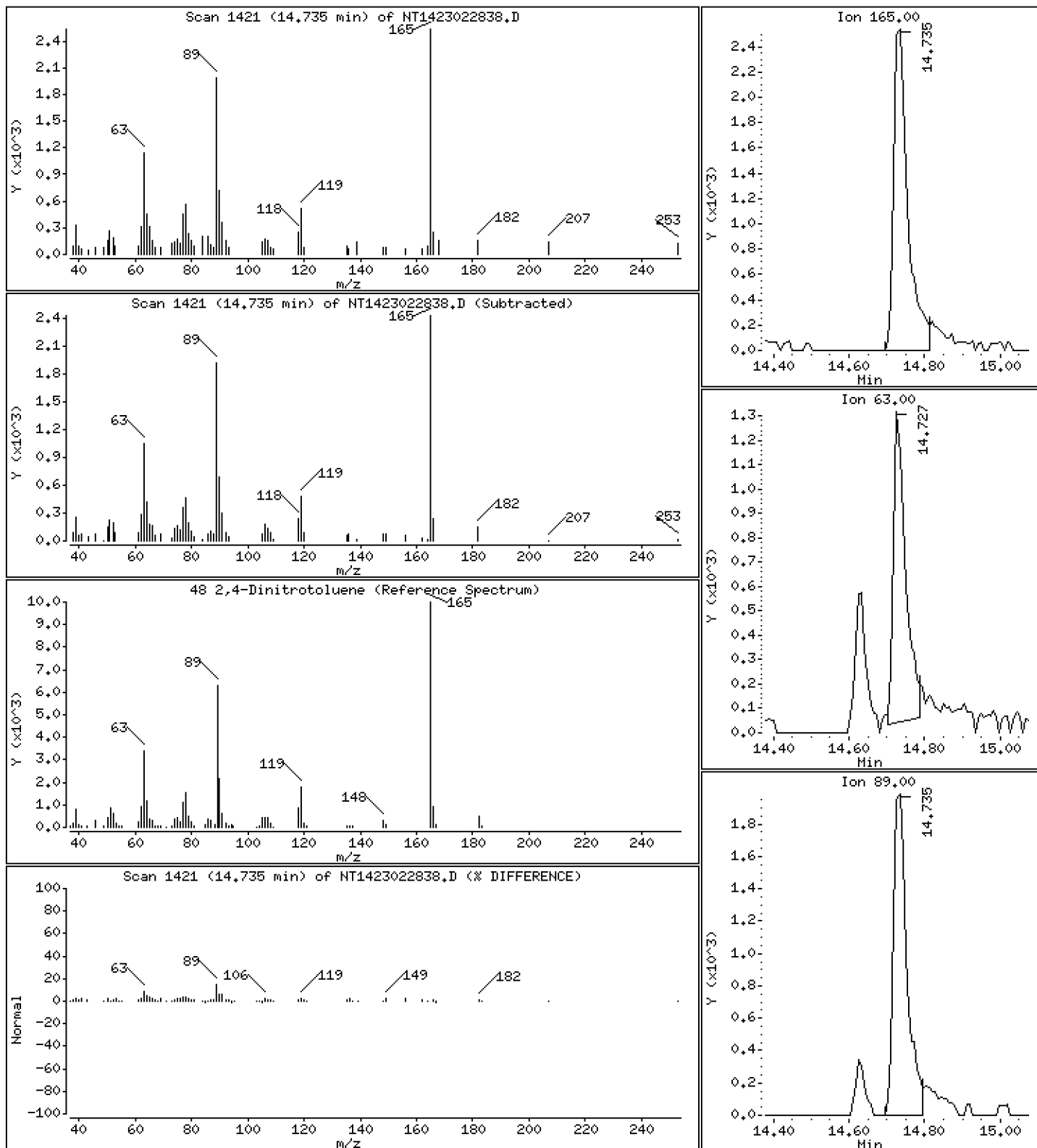
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

48 2,4-Dinitrotoluene

Concentration: 0.2661 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

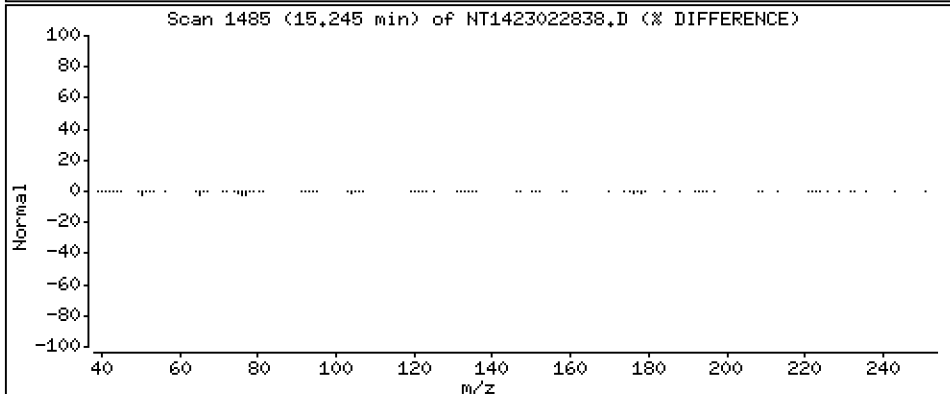
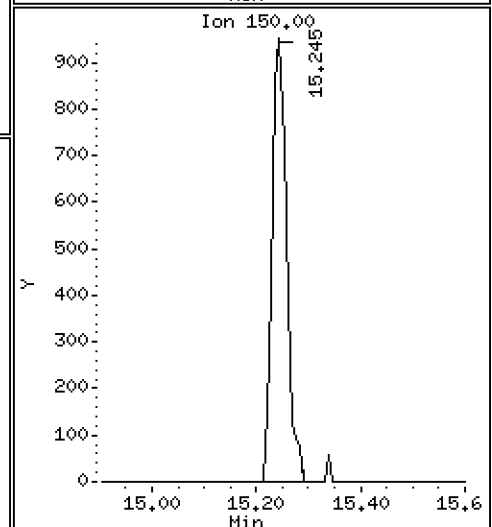
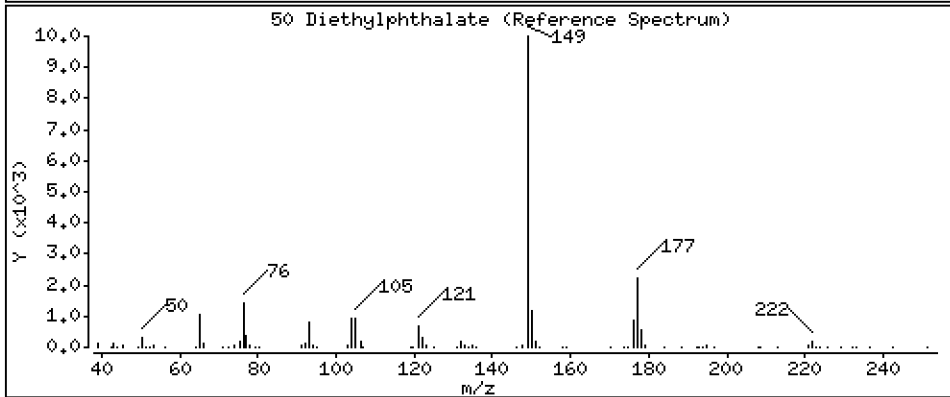
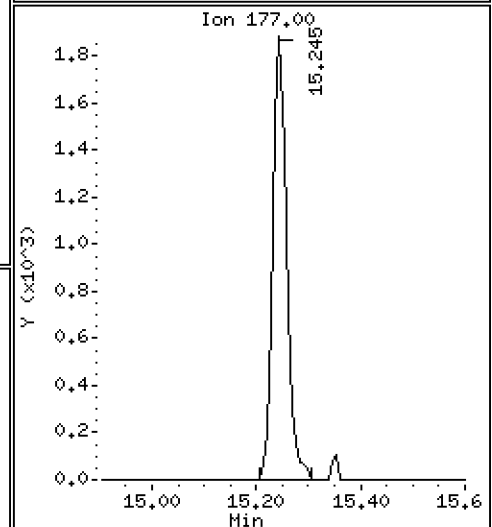
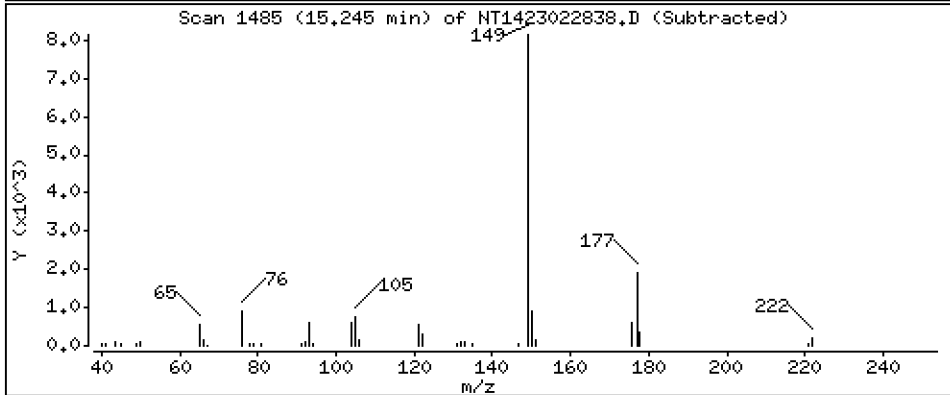
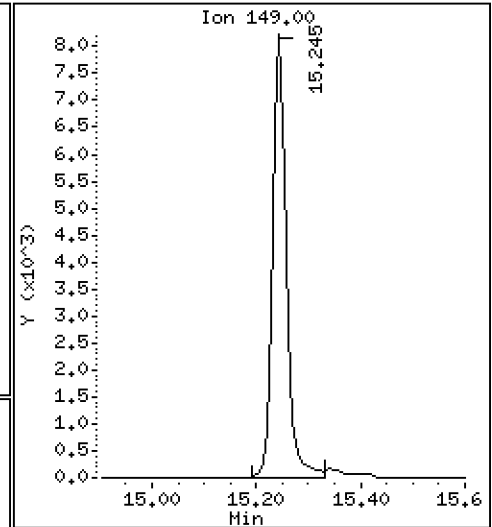
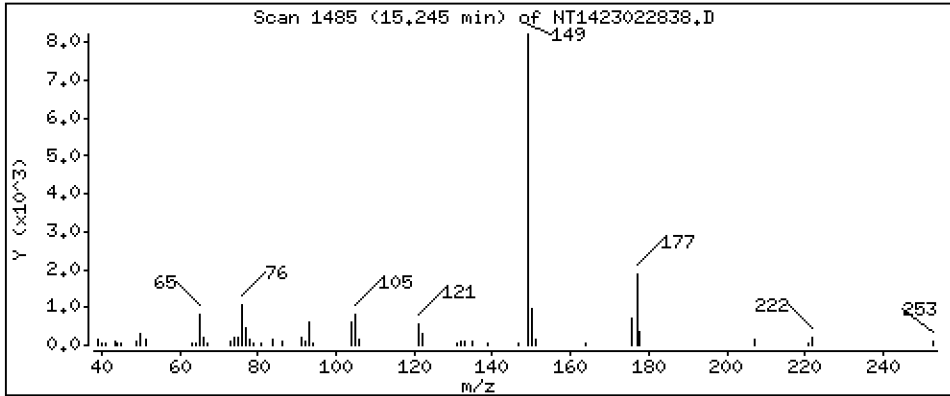
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 0,2122 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

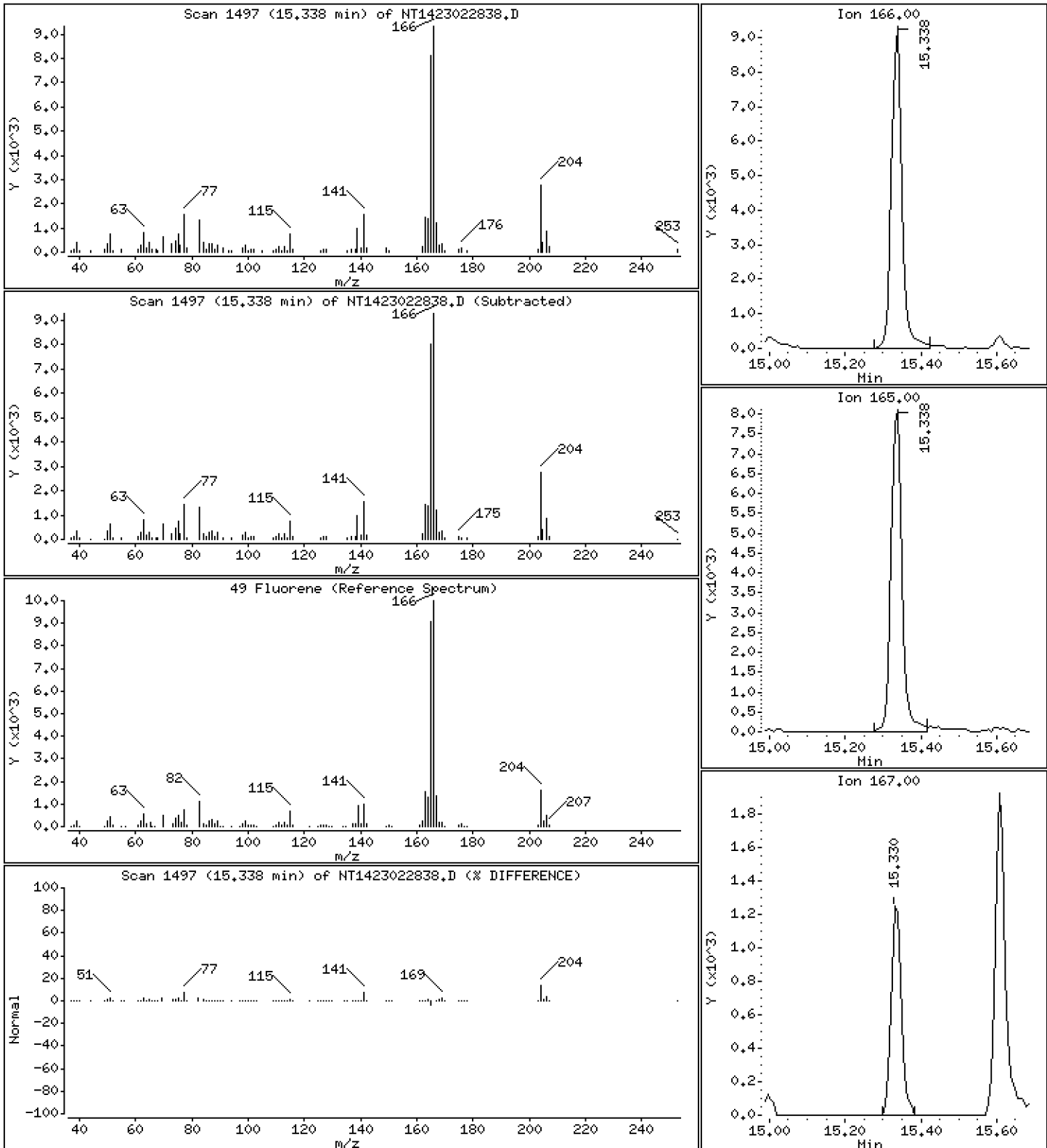
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 0,2128 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

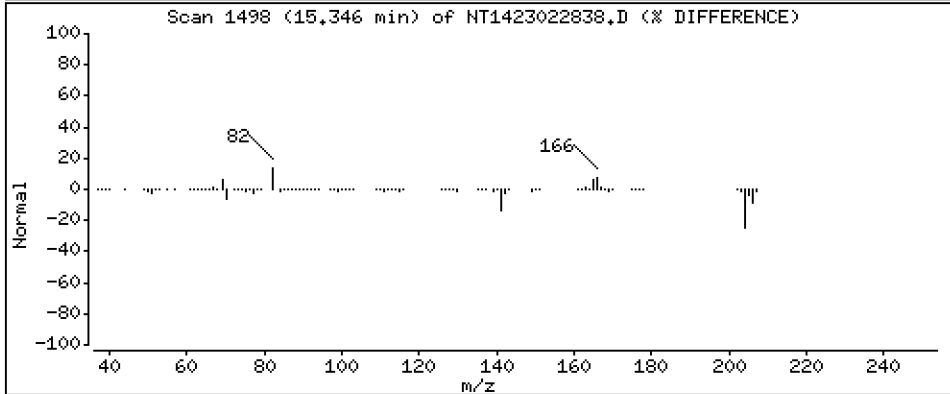
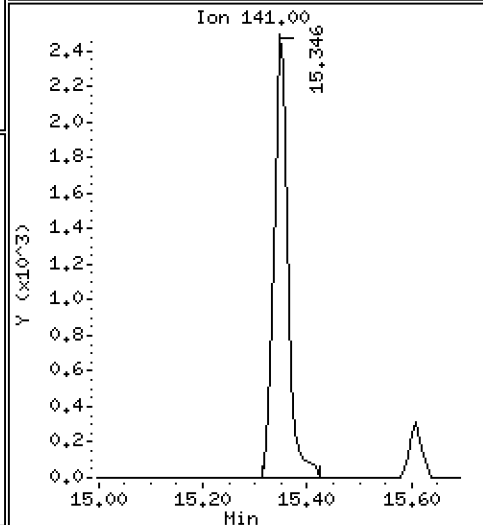
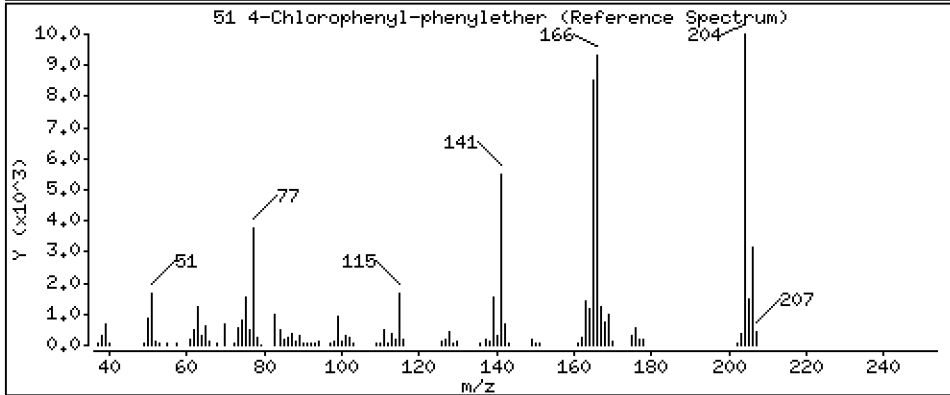
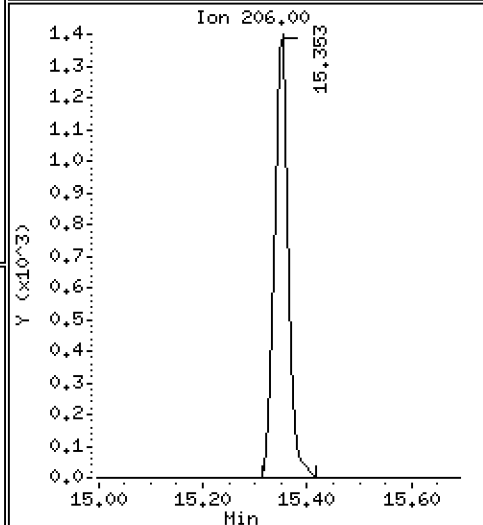
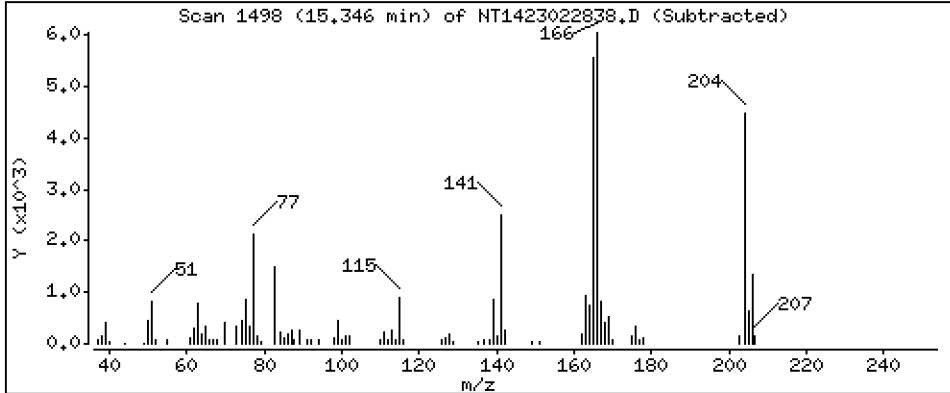
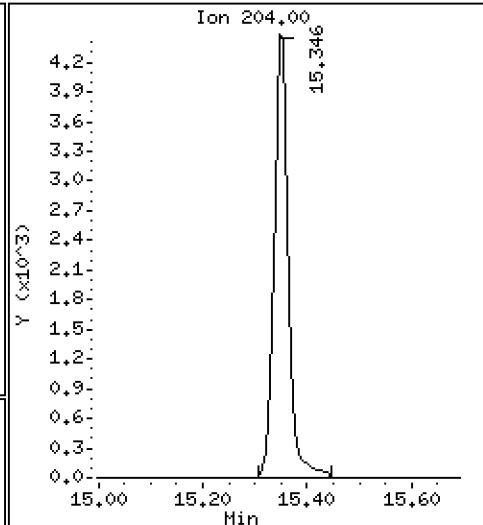
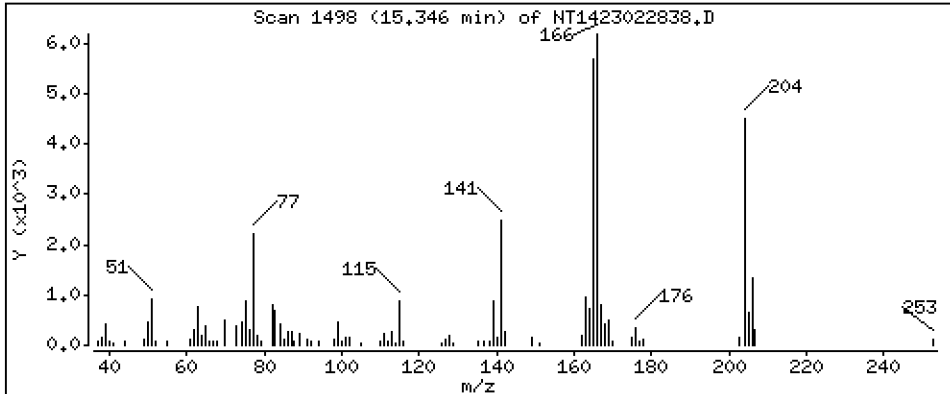
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 0,1967 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

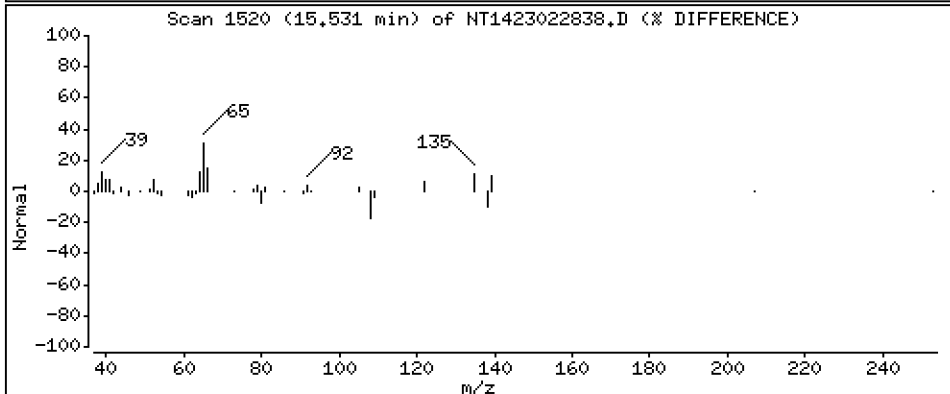
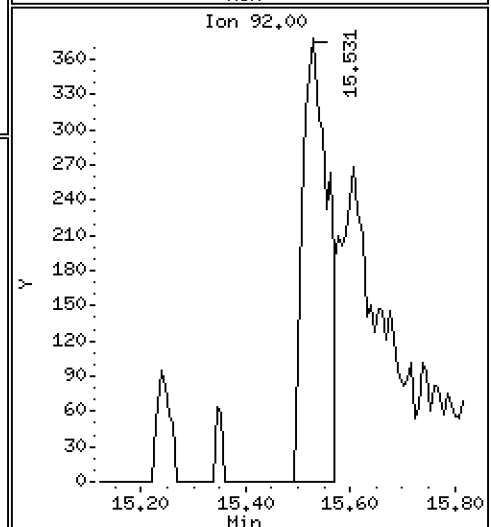
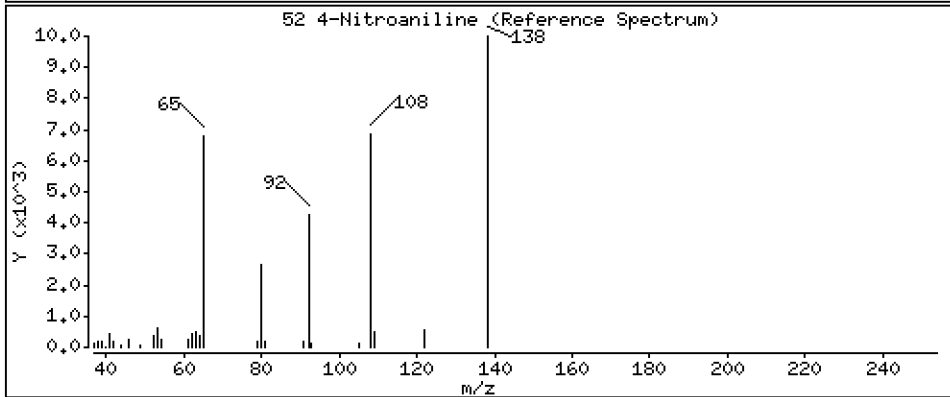
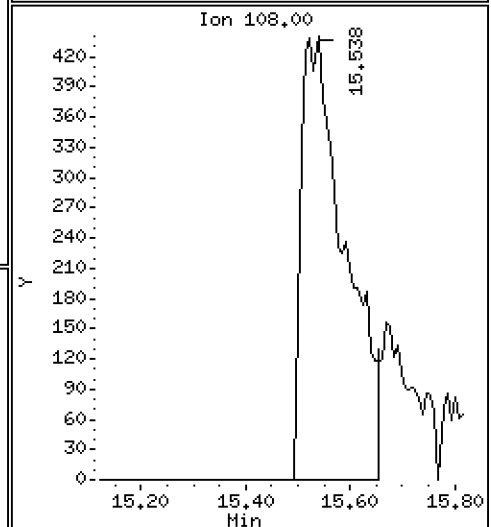
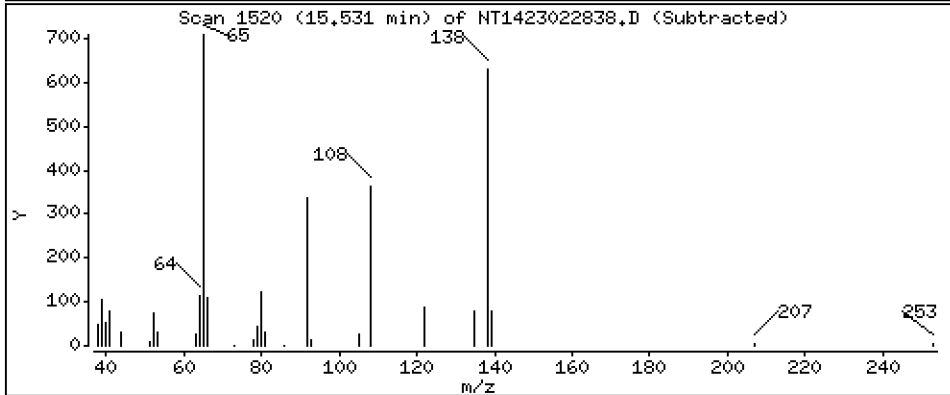
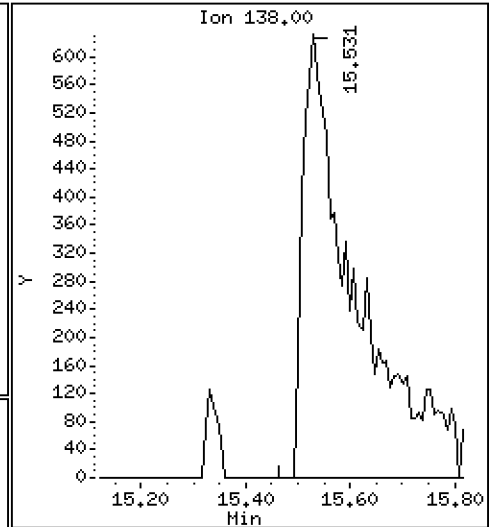
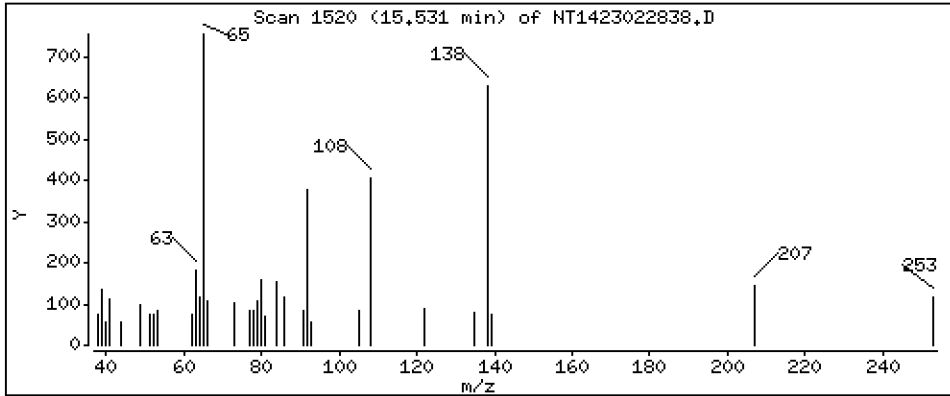
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

52 4-Nitroaniline

Concentration: 0,2698 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

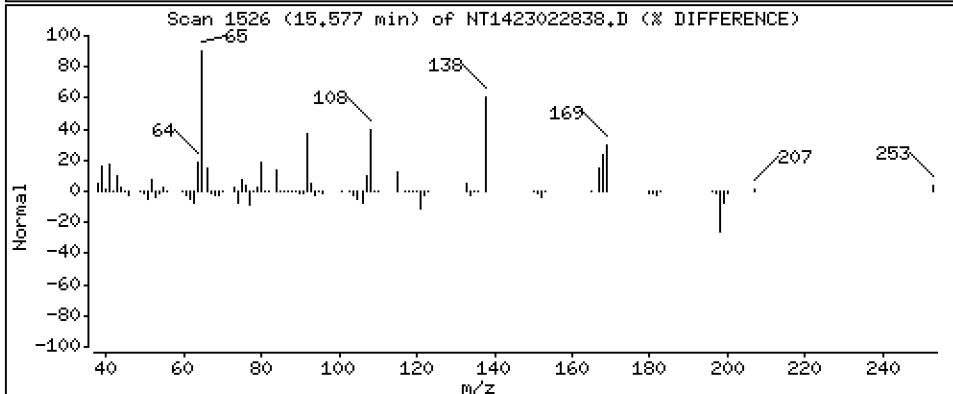
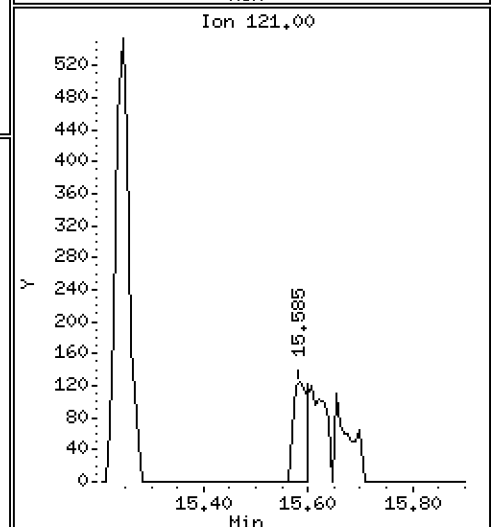
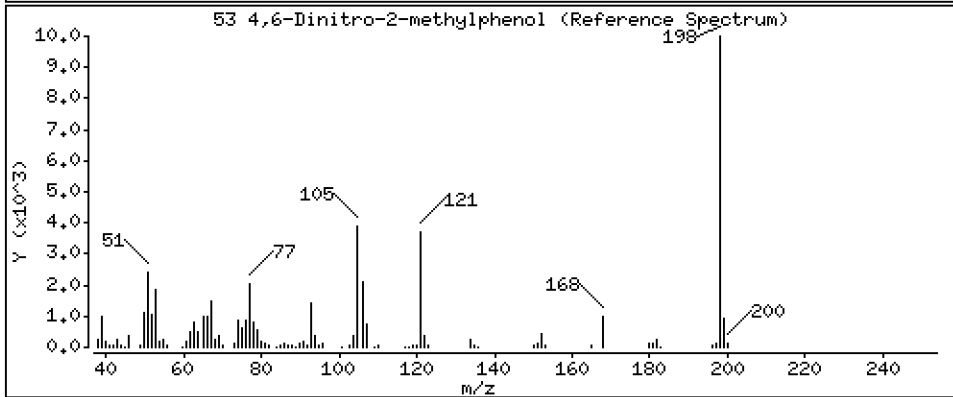
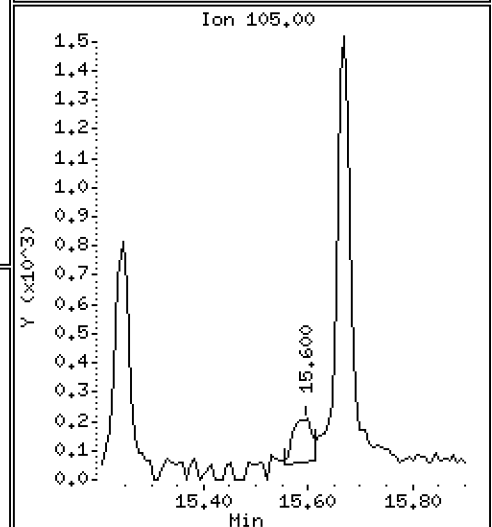
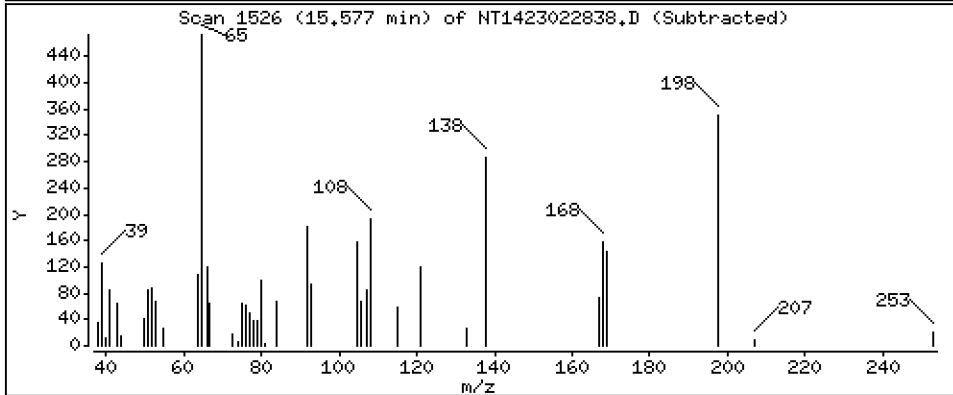
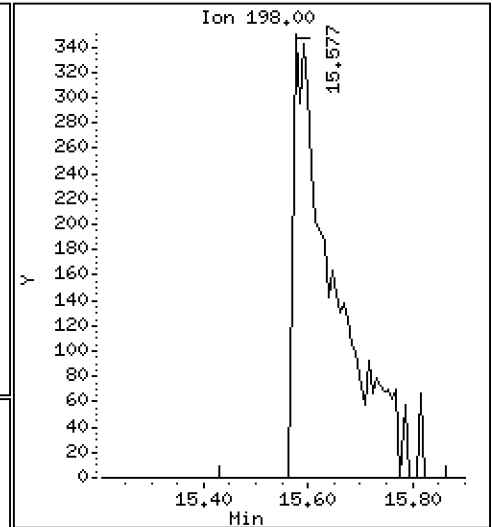
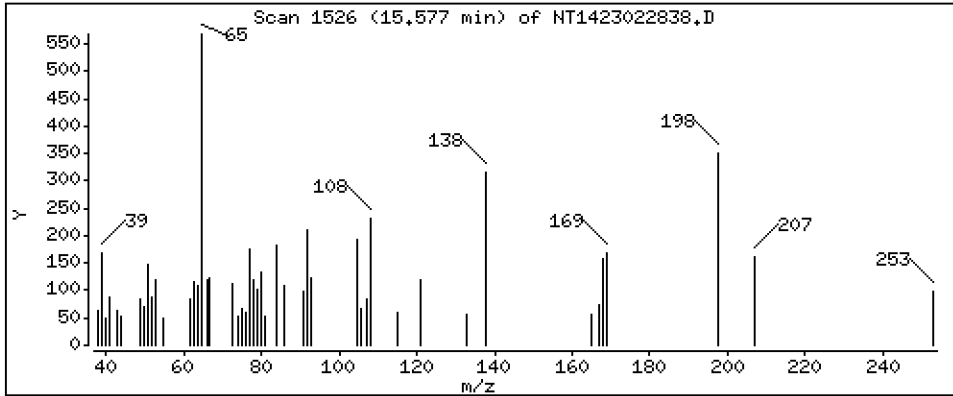
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

53 4,6-Dinitro-2-methylphenol

Concentration: 0,1394 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

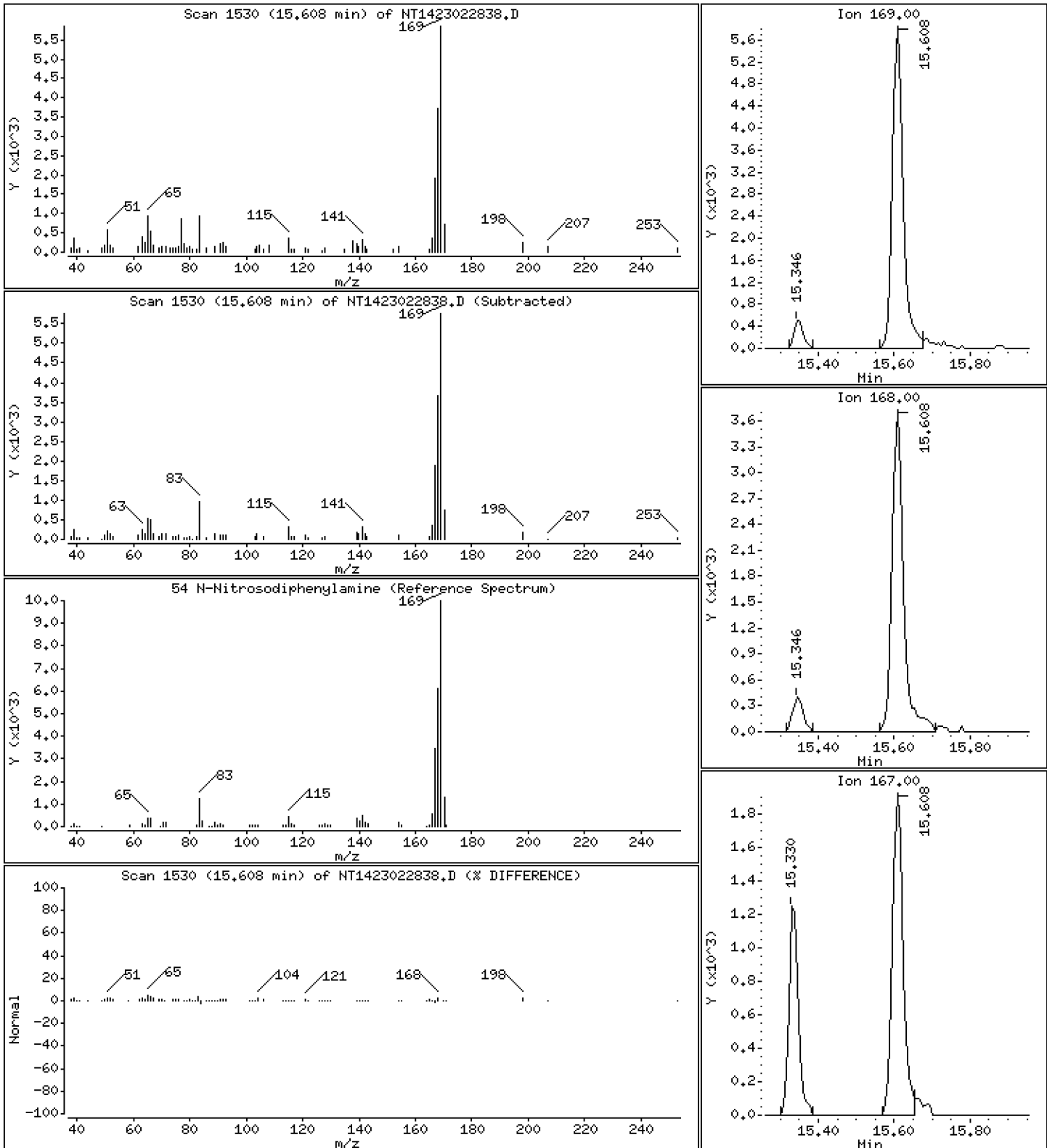
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

54 N-Nitrosodiphenylamine

Concentration: 0,2107 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

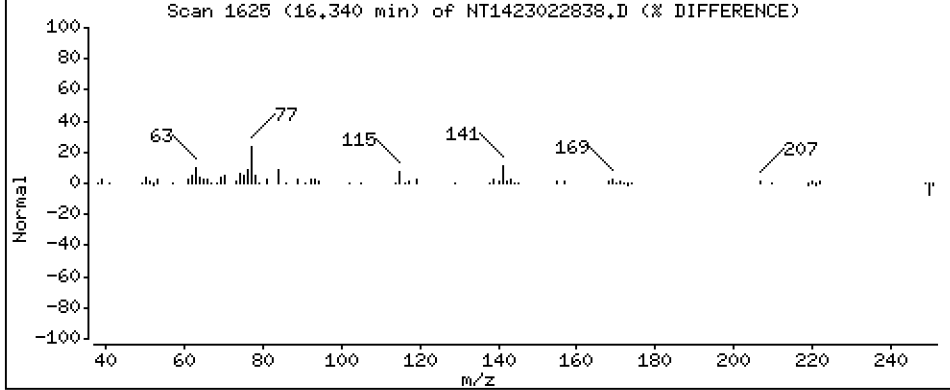
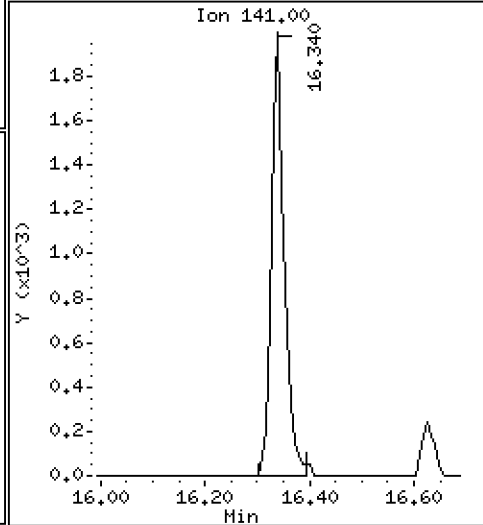
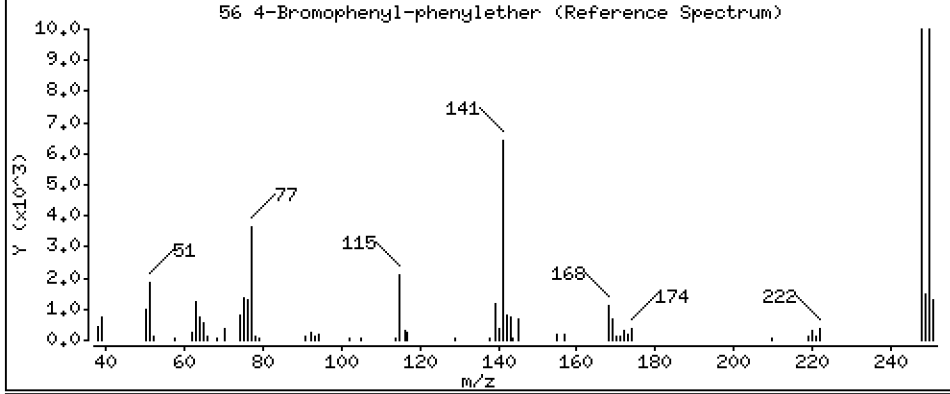
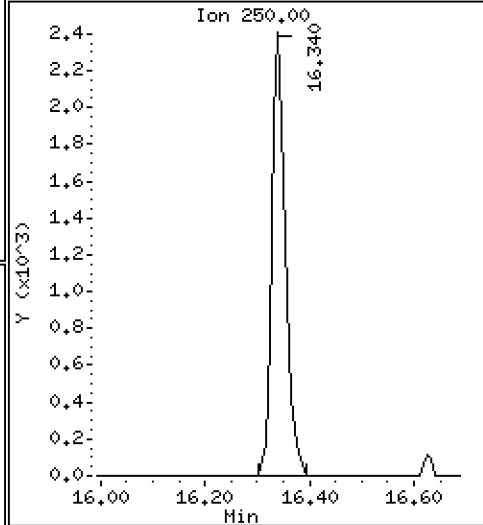
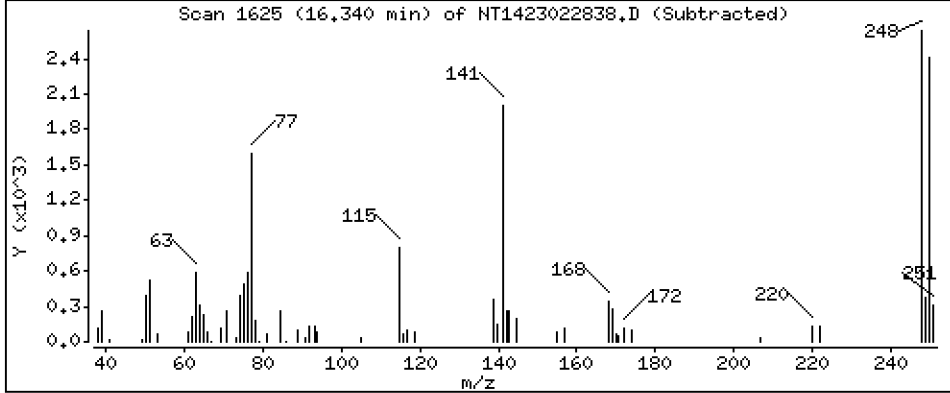
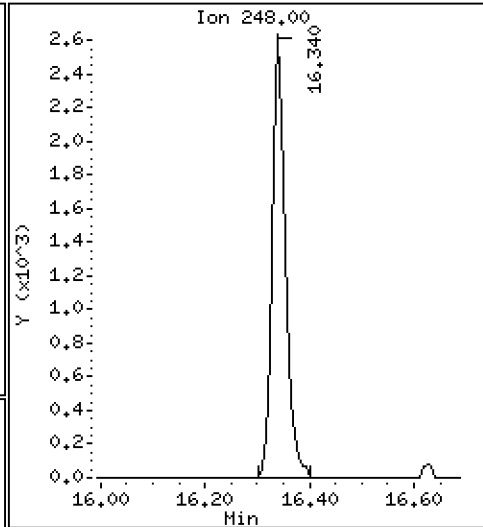
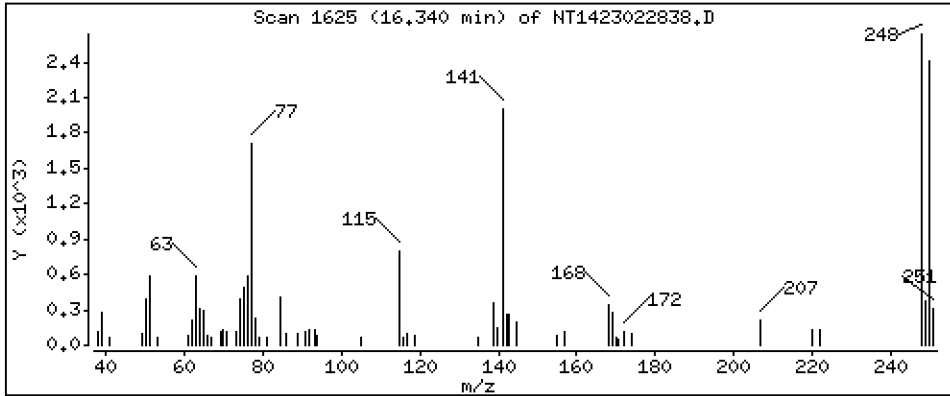
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 0,1947 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

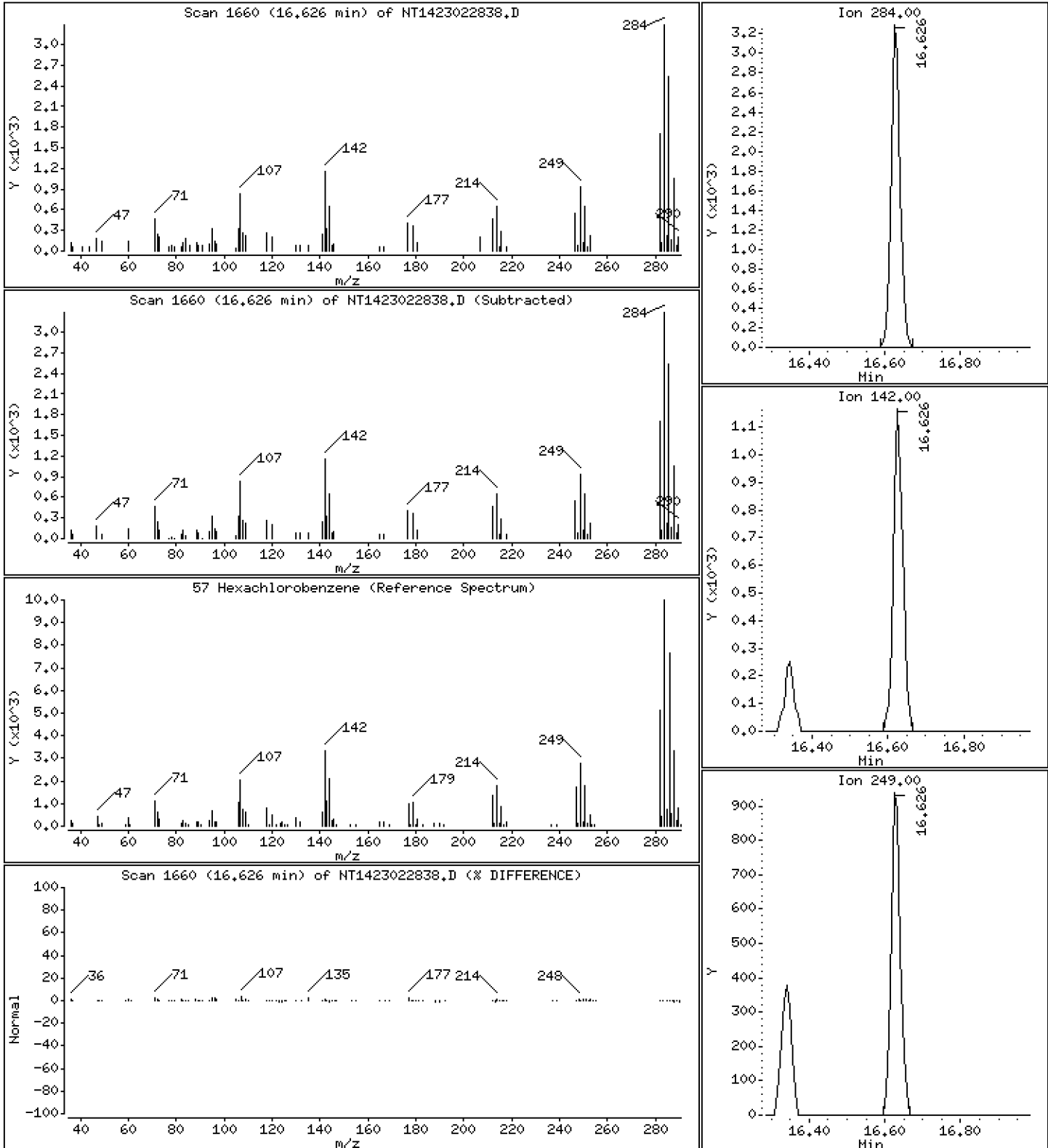
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

57 Hexachlorobenzene

Concentration: 0,2130 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

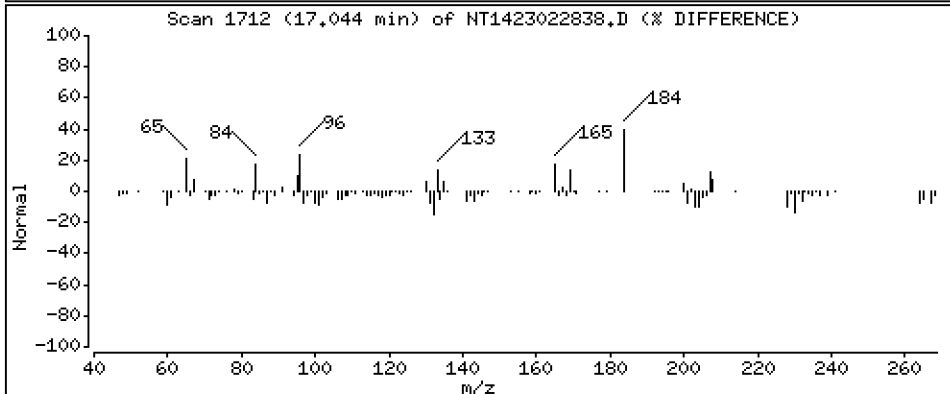
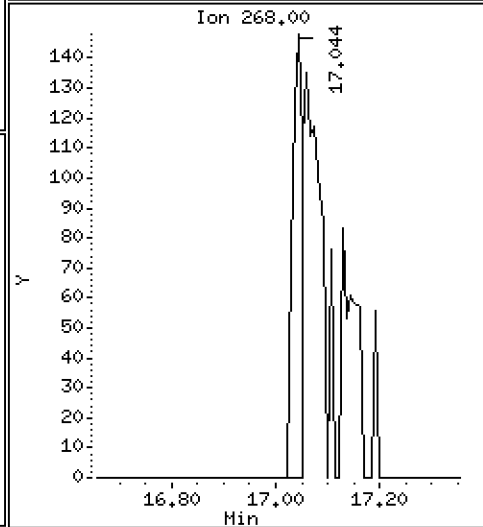
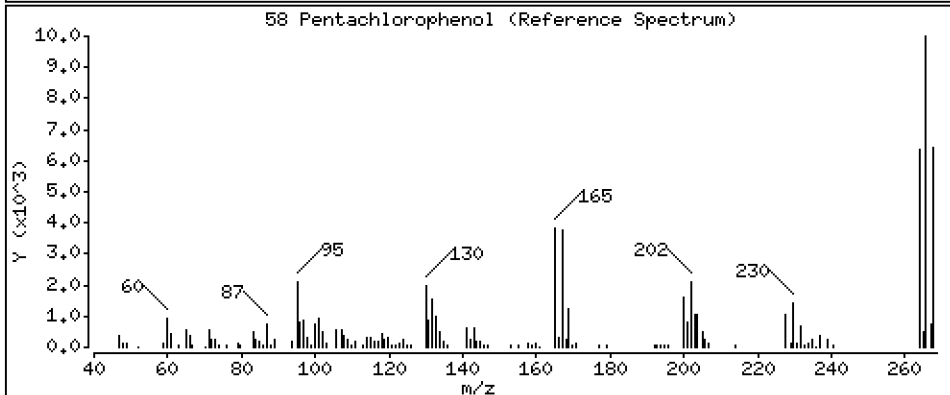
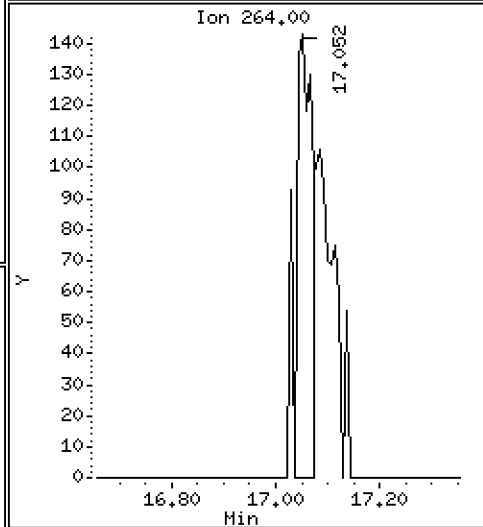
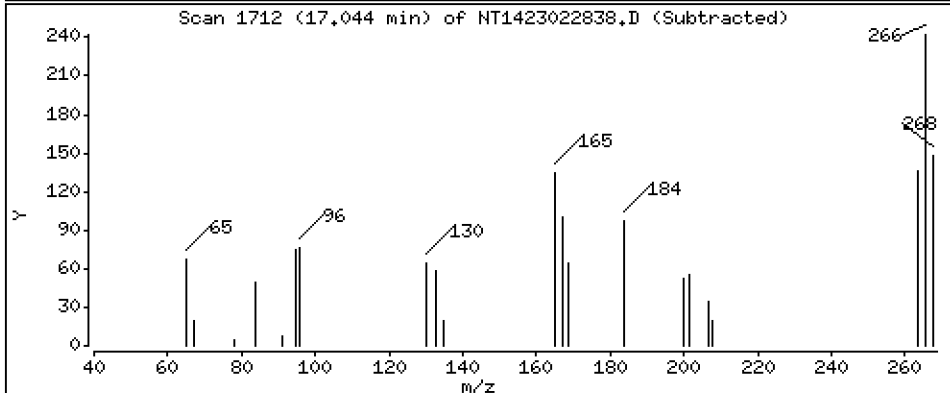
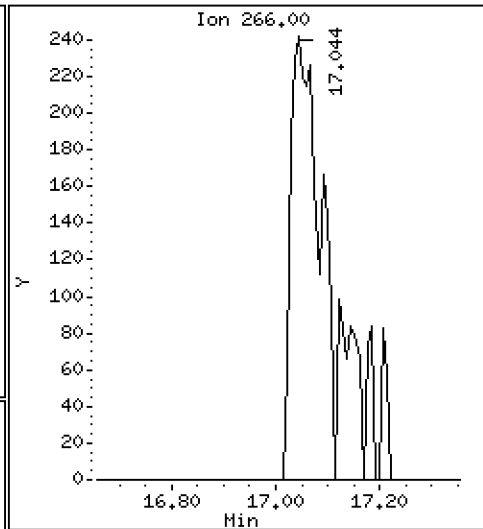
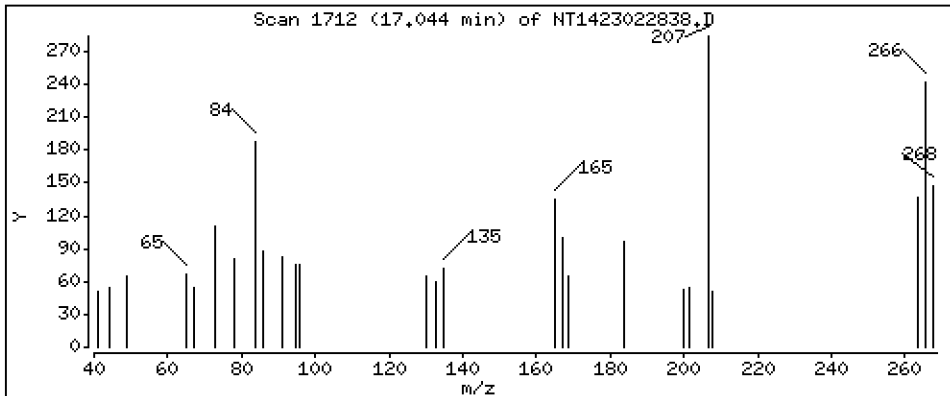
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 0,1123 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

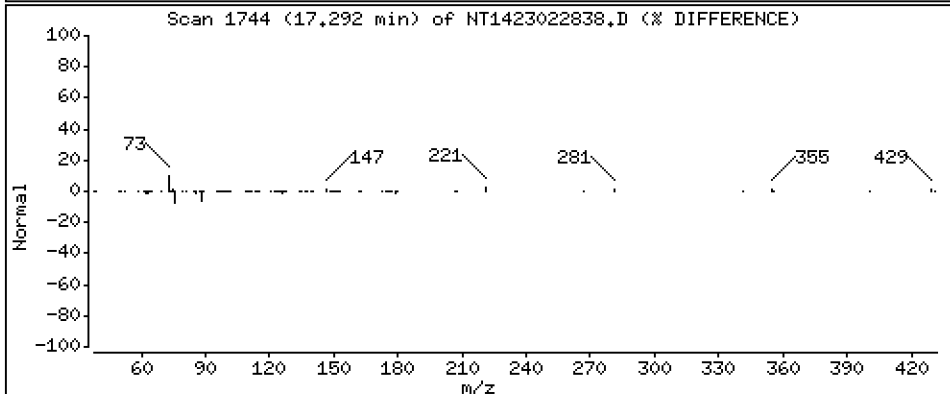
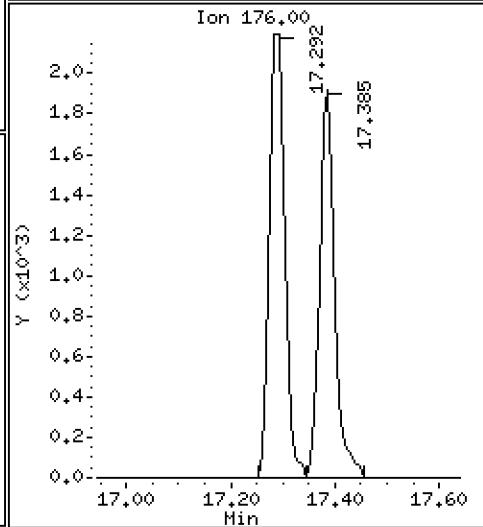
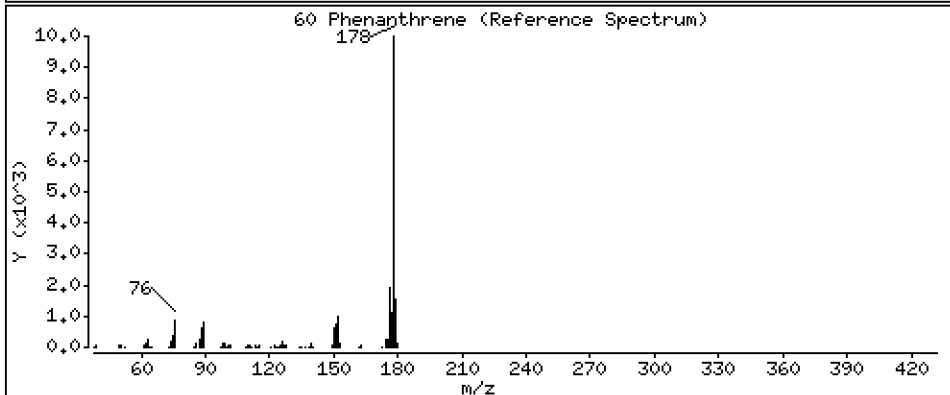
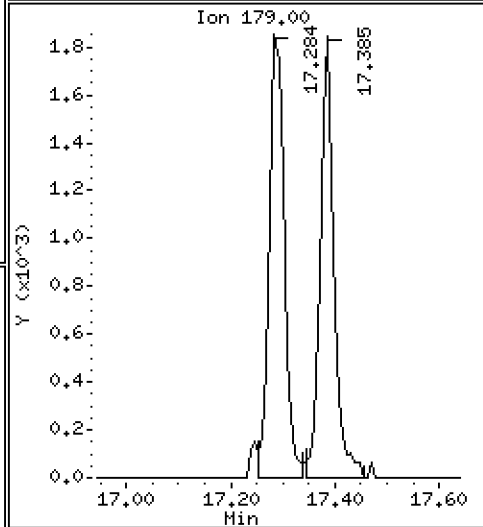
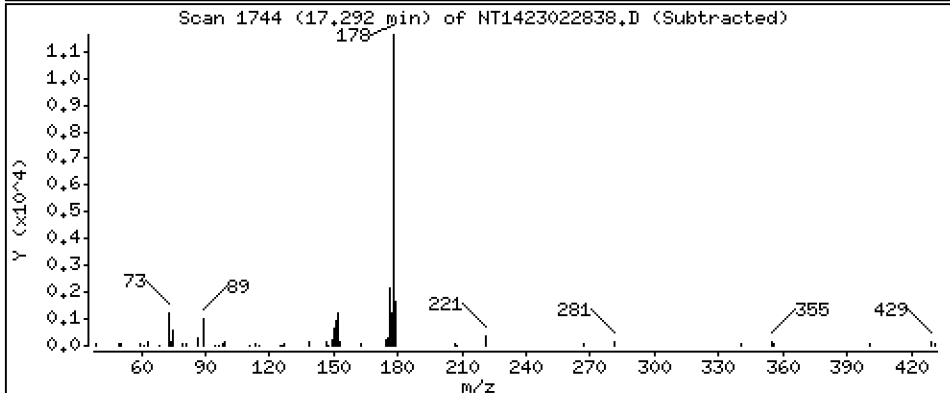
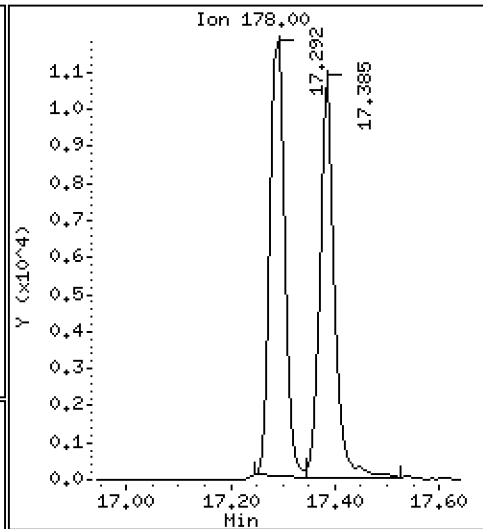
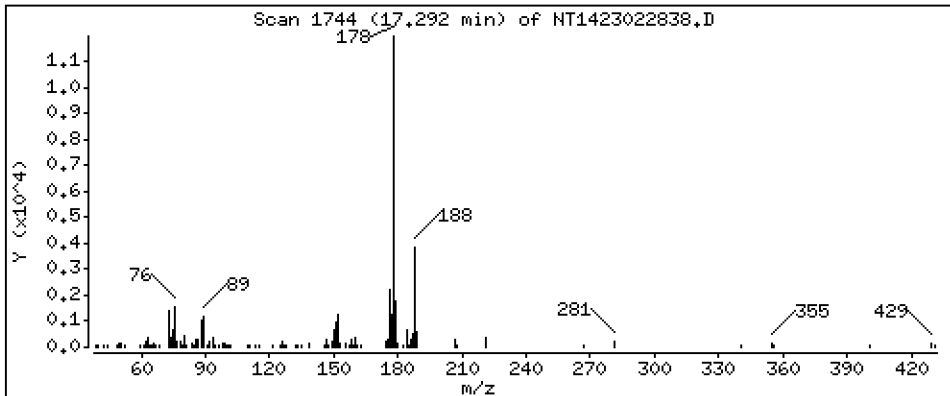
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 0,2004 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

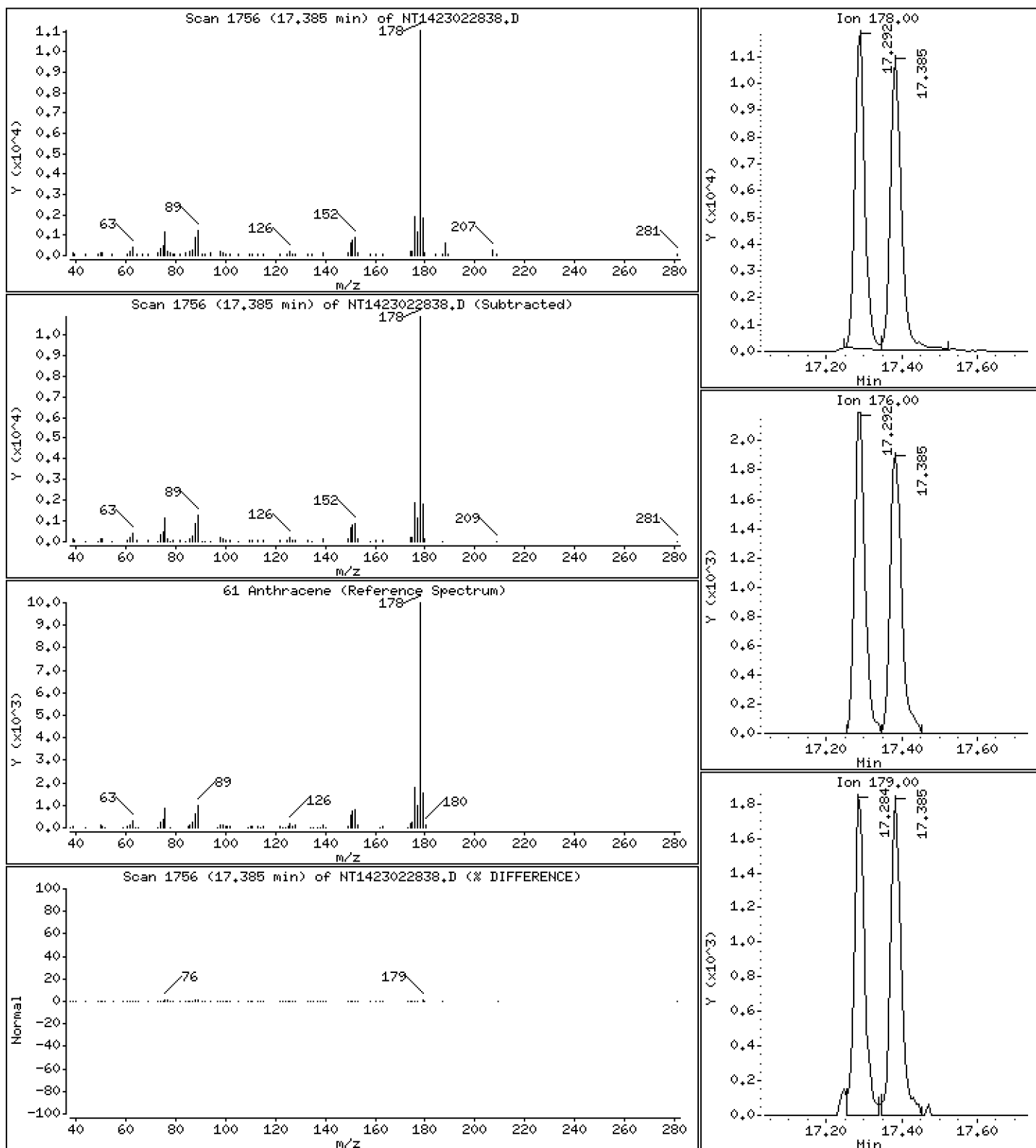
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 0,2011 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

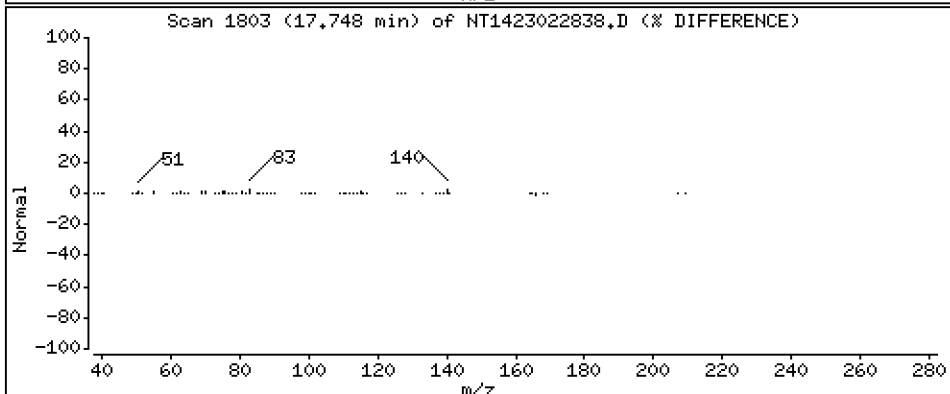
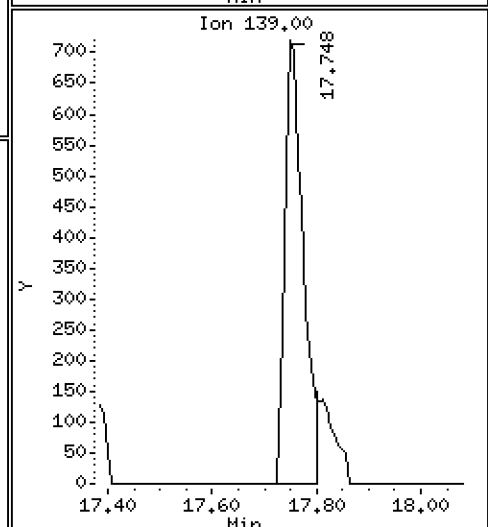
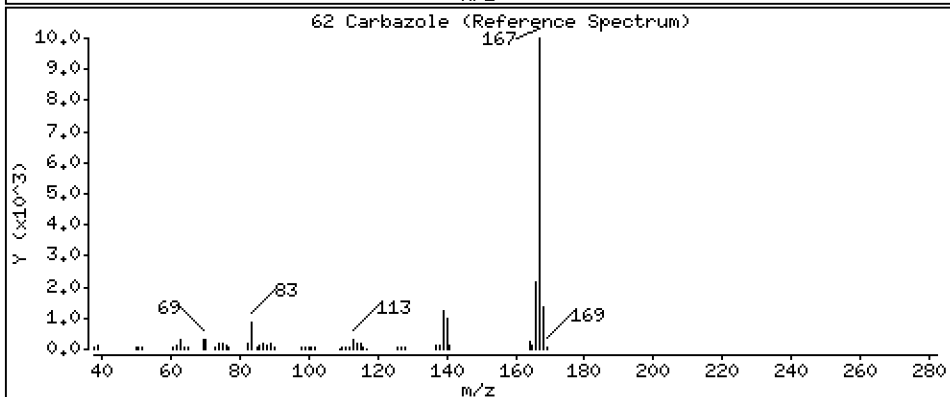
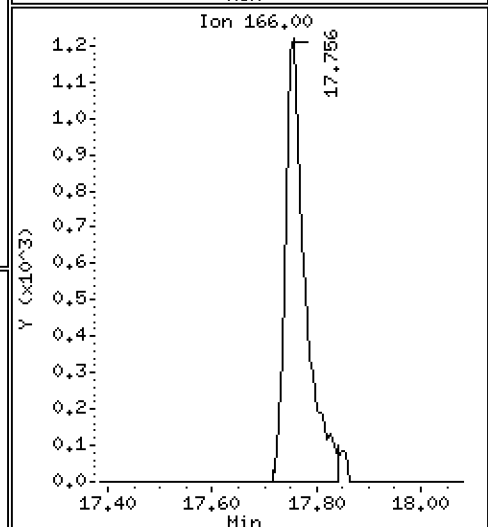
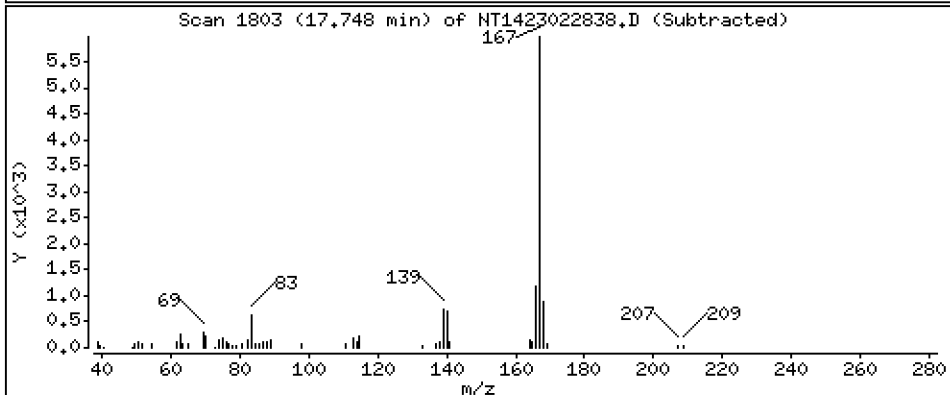
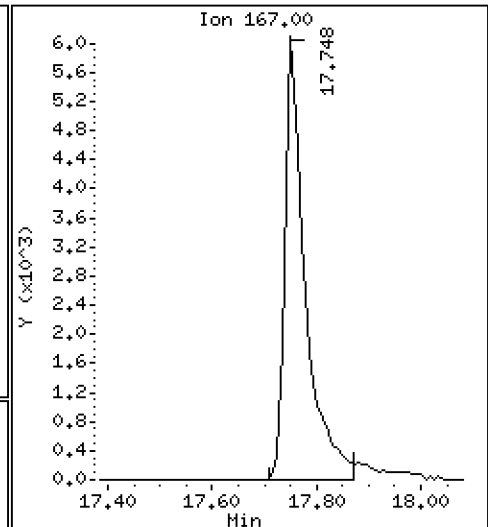
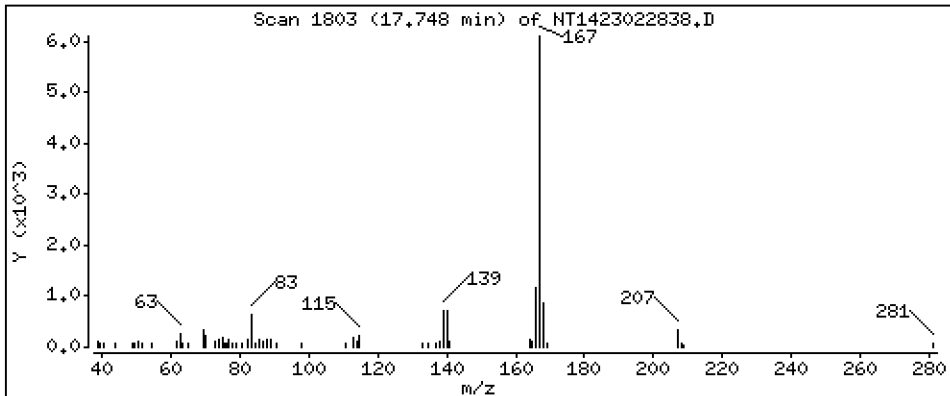
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 0,1835 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

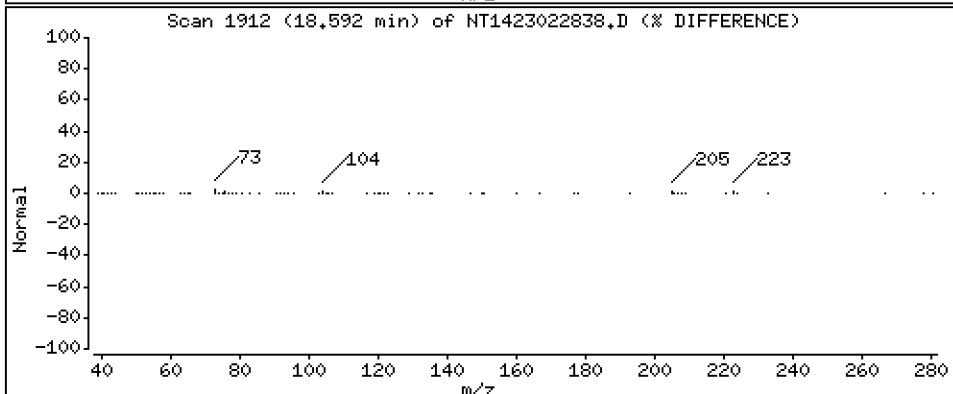
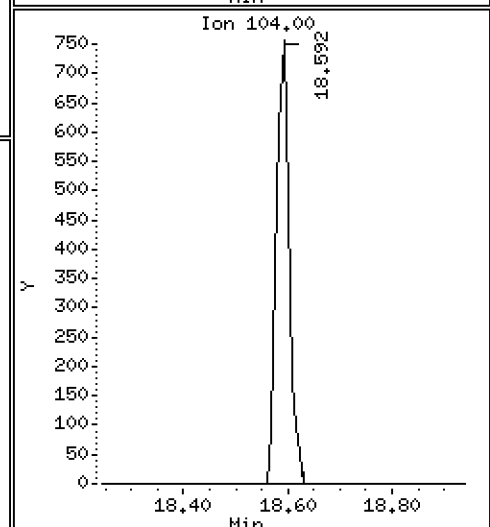
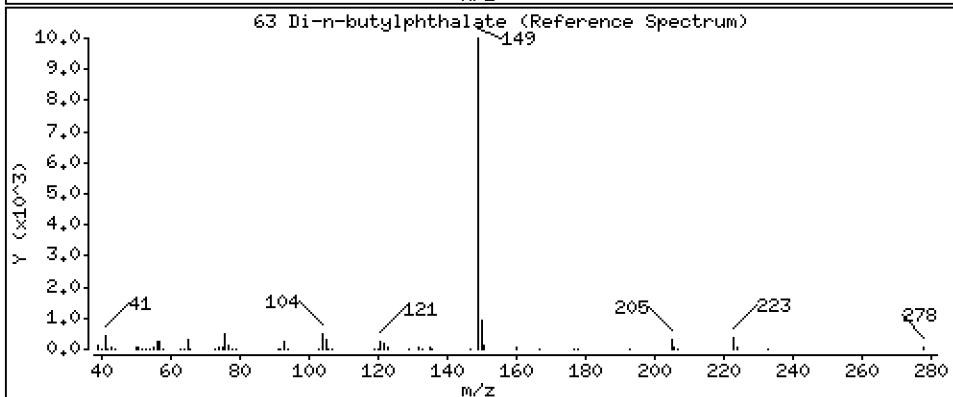
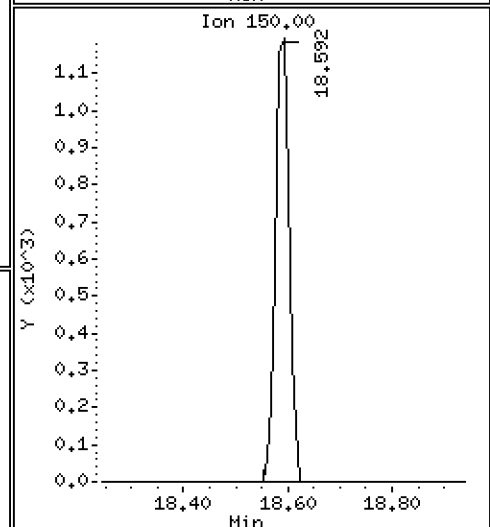
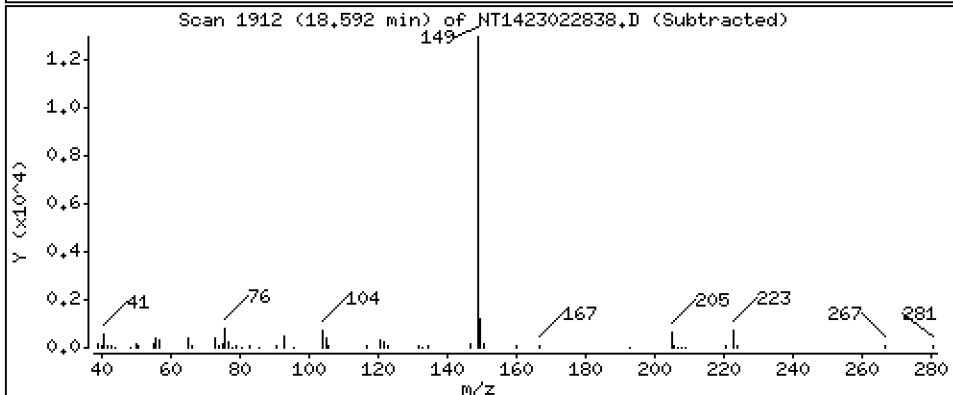
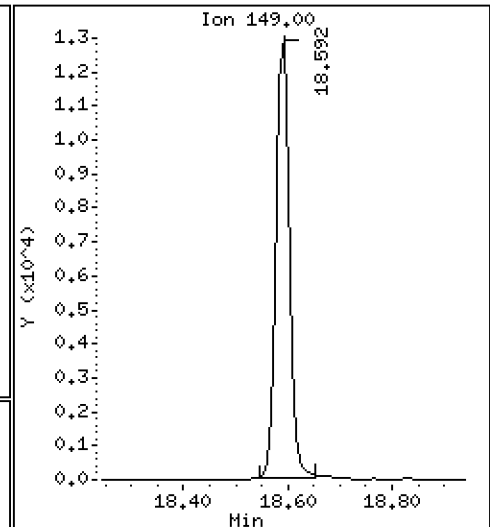
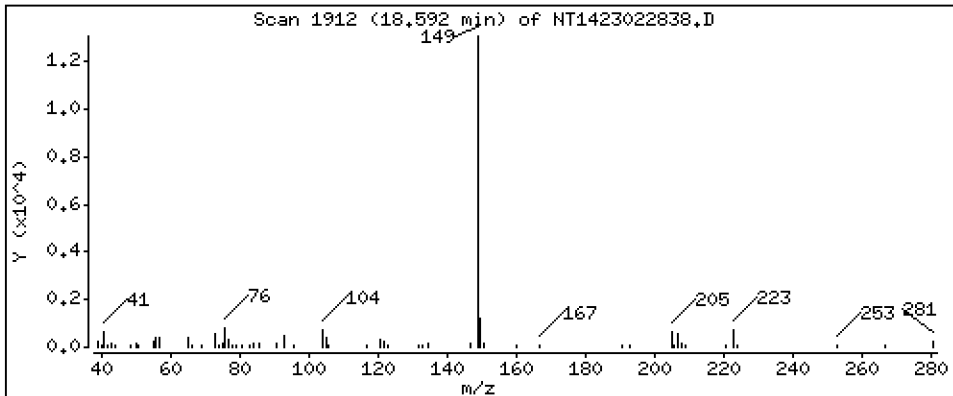
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 0,1830 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

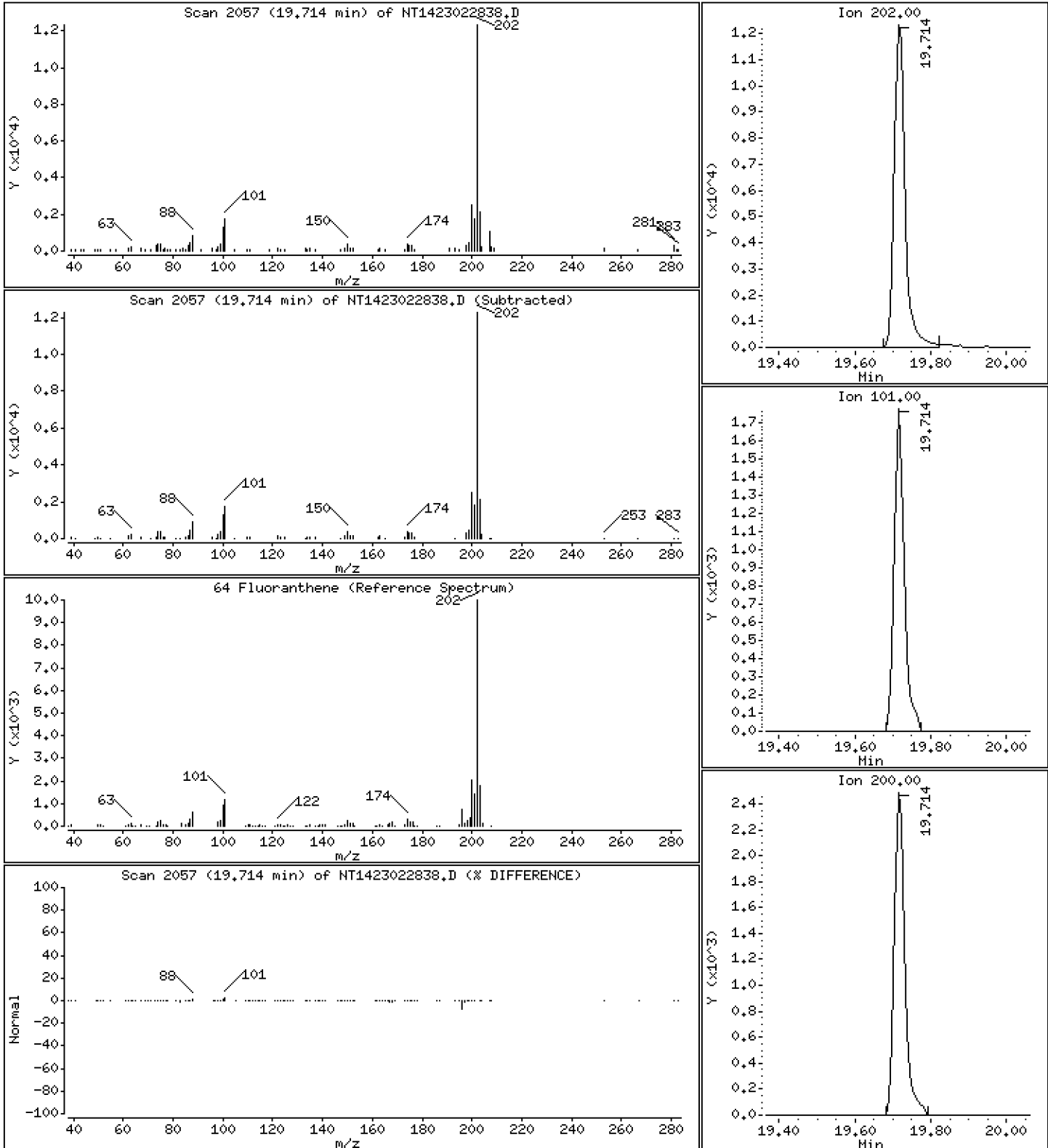
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 0,1837 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

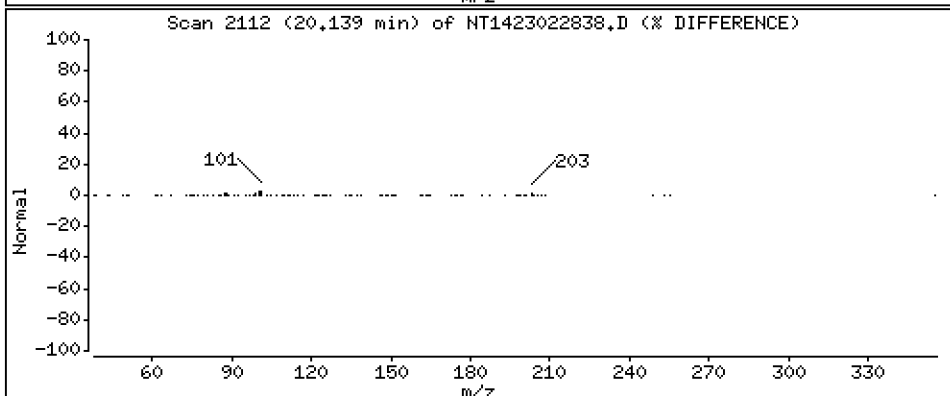
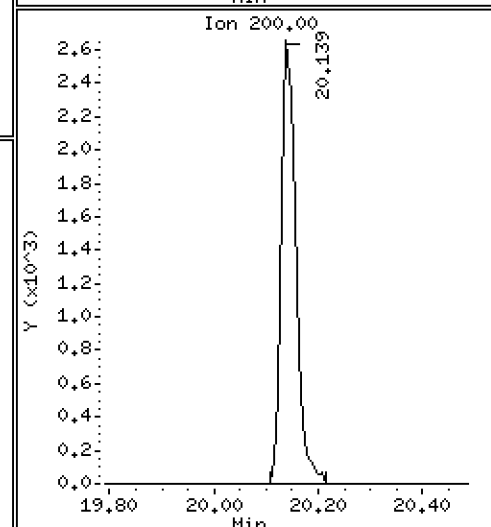
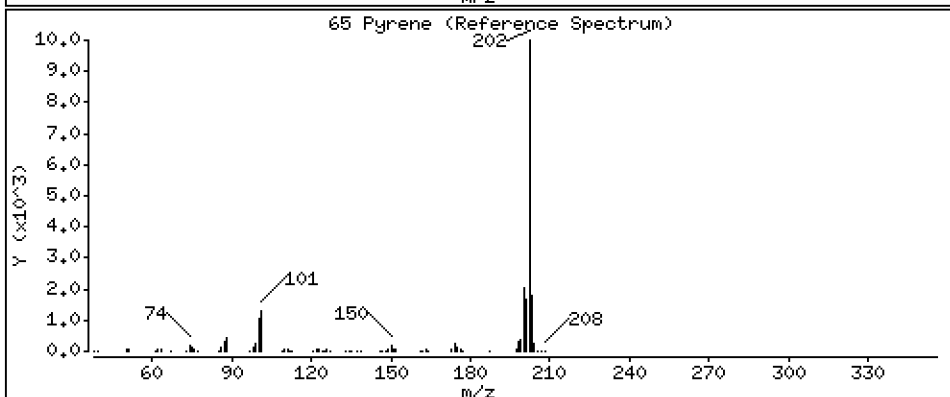
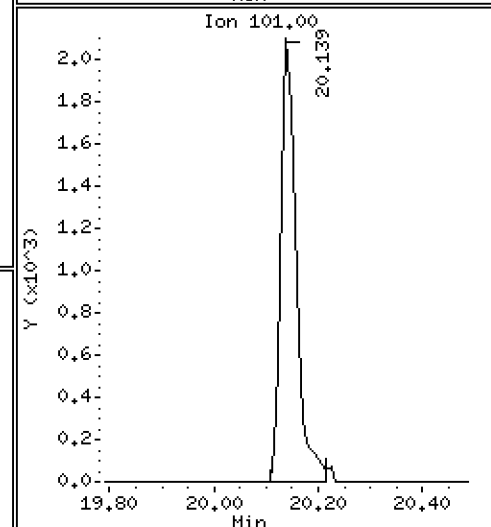
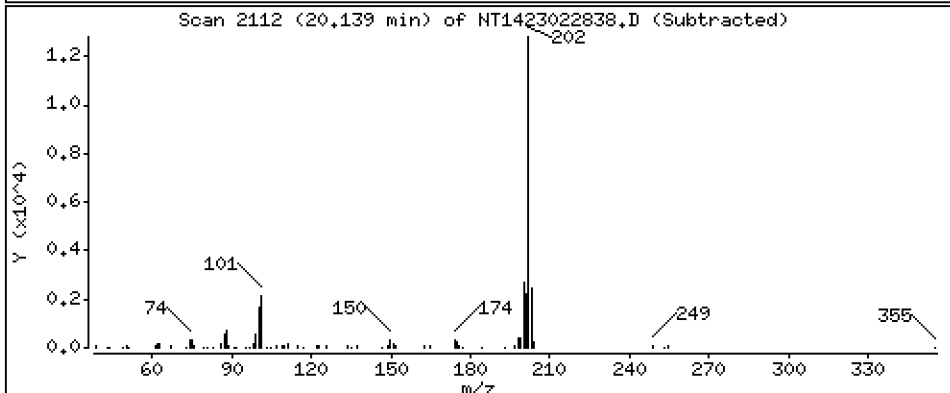
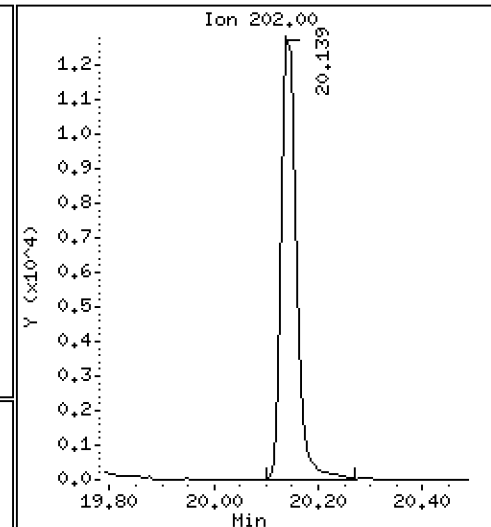
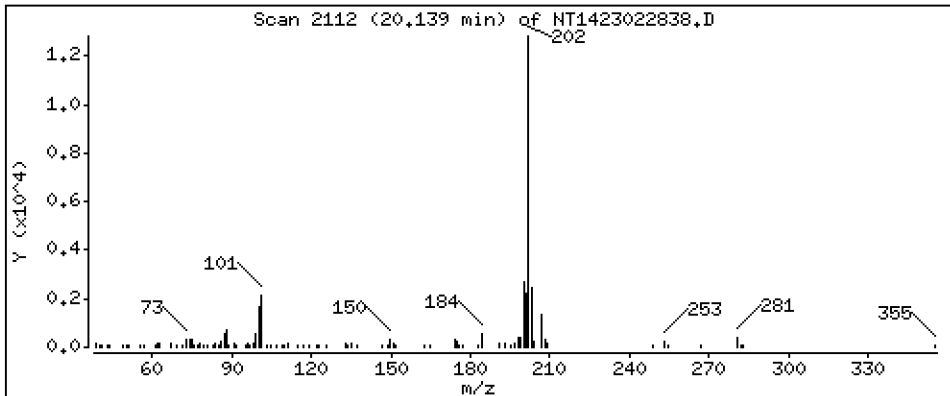
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 0,1835 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

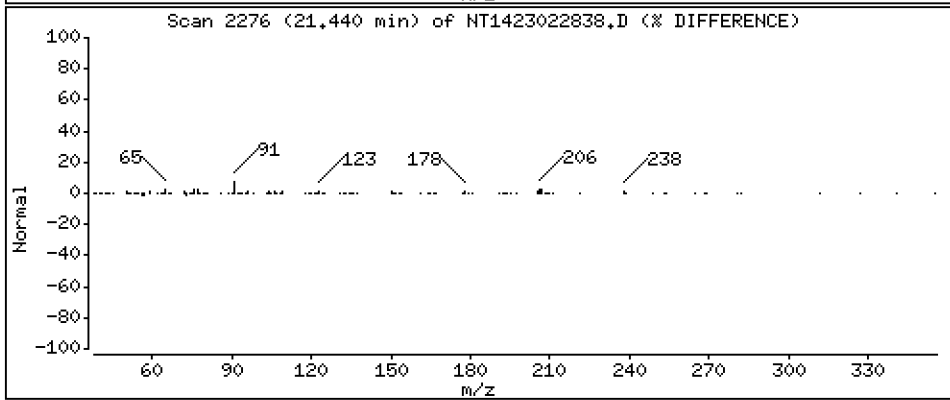
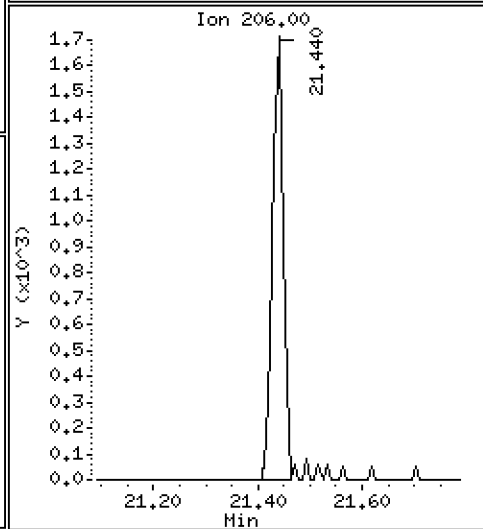
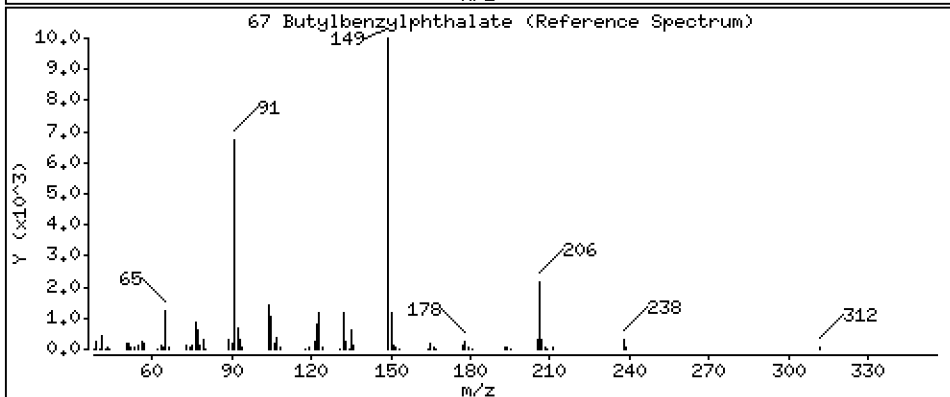
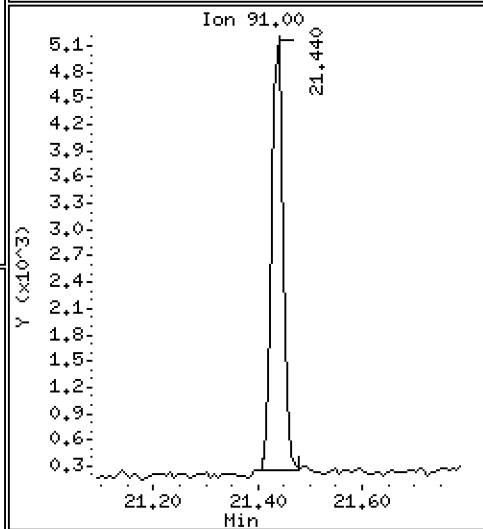
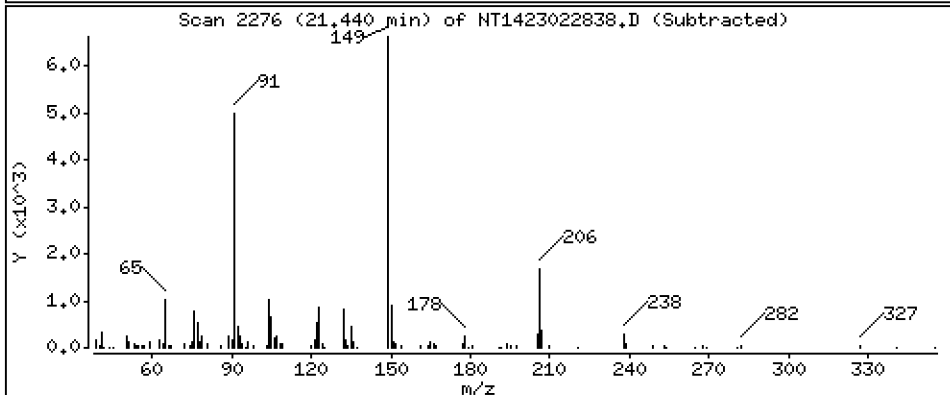
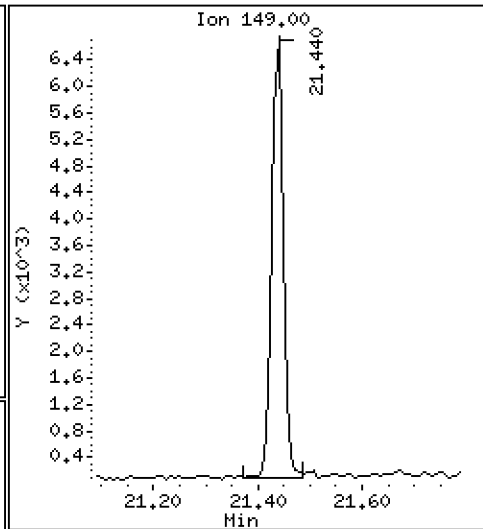
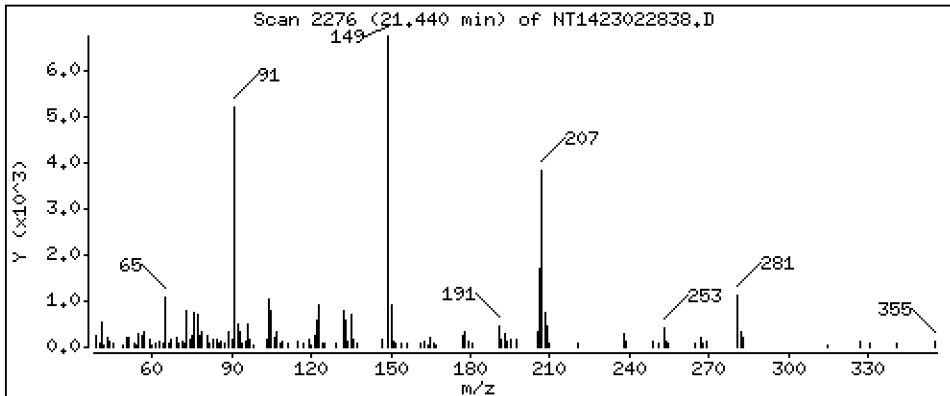
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 0,1984 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

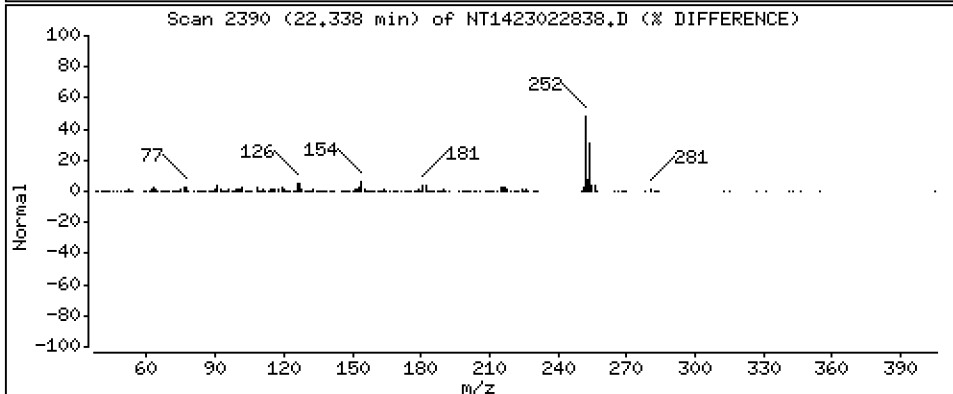
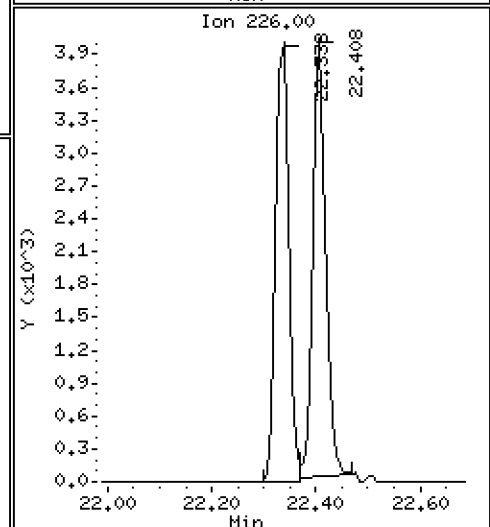
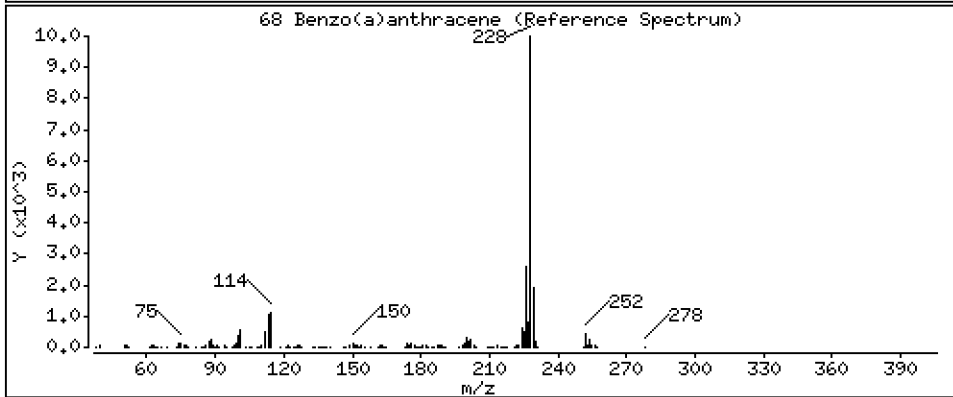
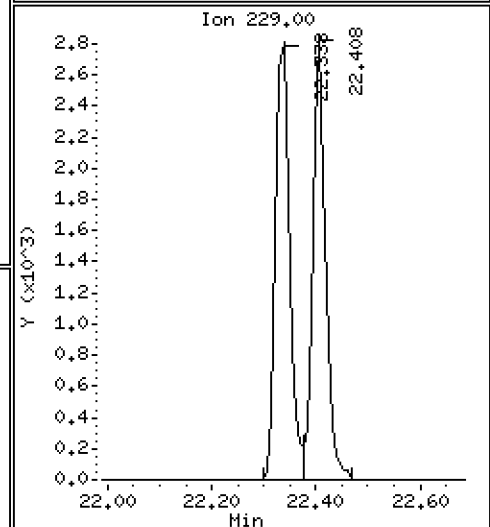
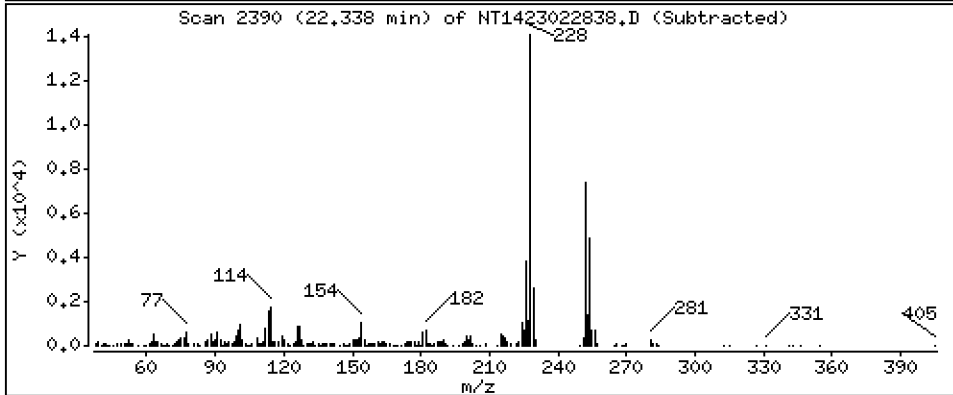
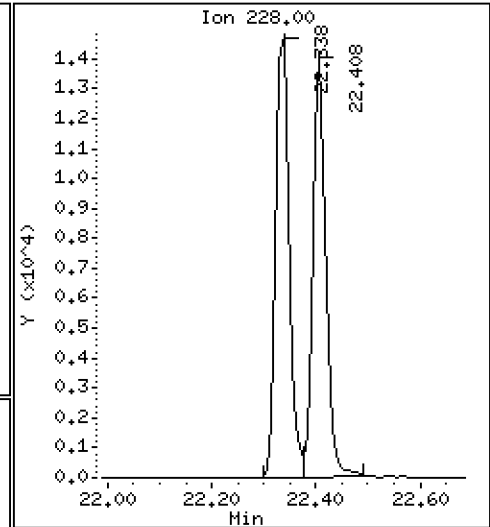
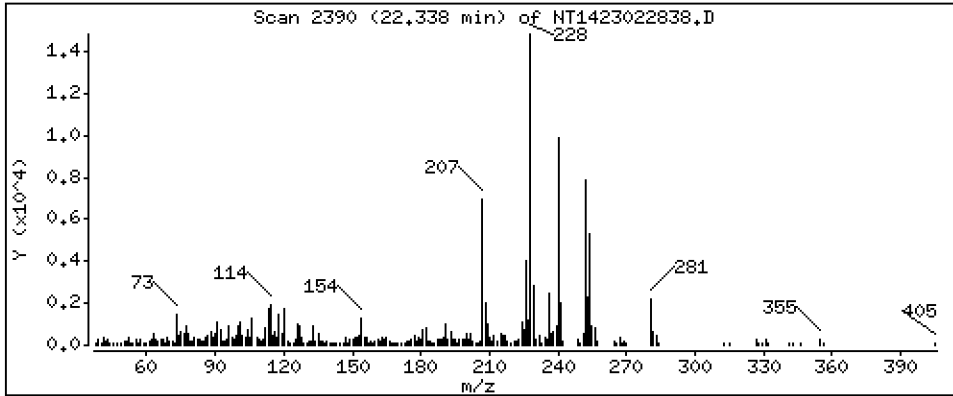
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 0,2213 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

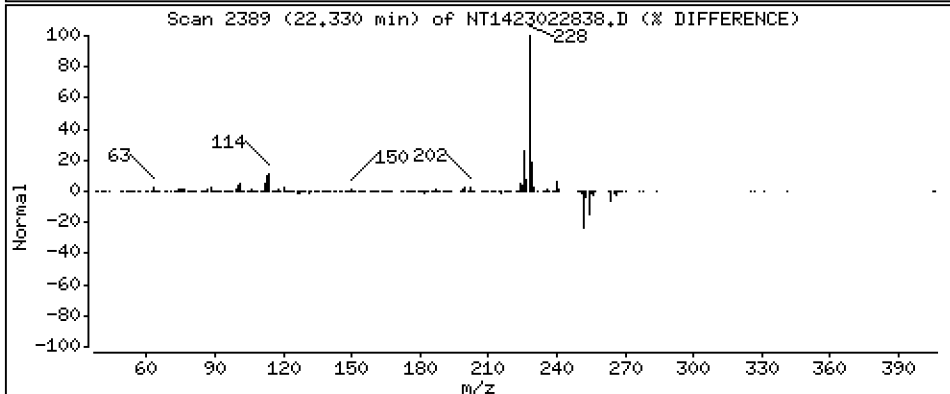
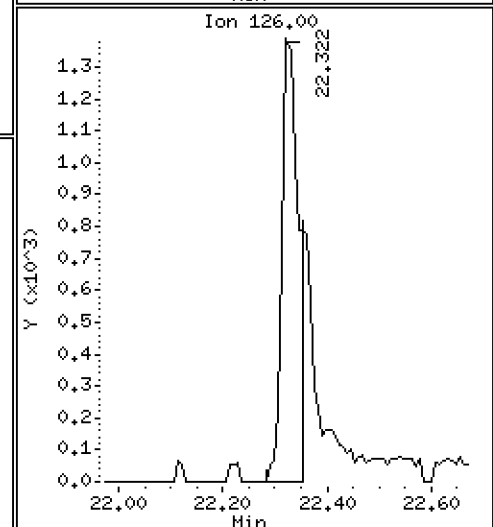
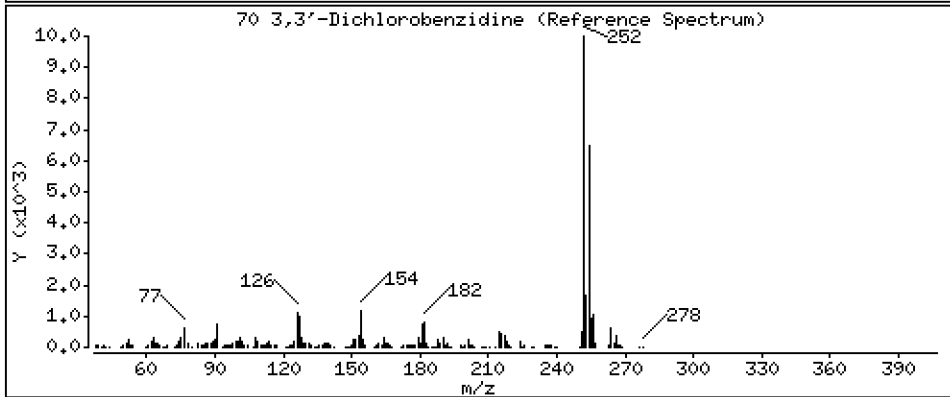
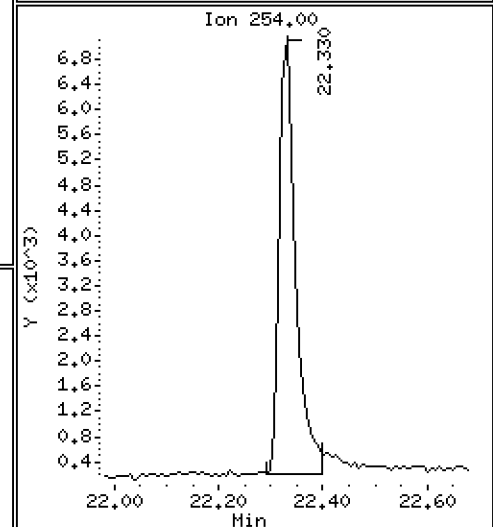
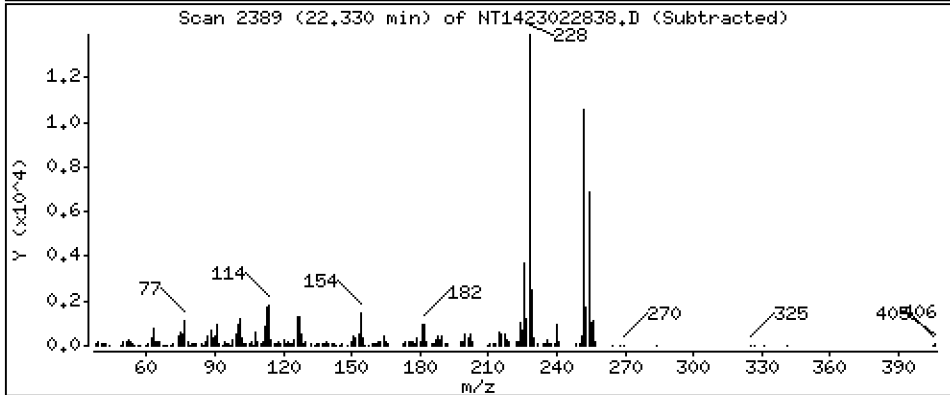
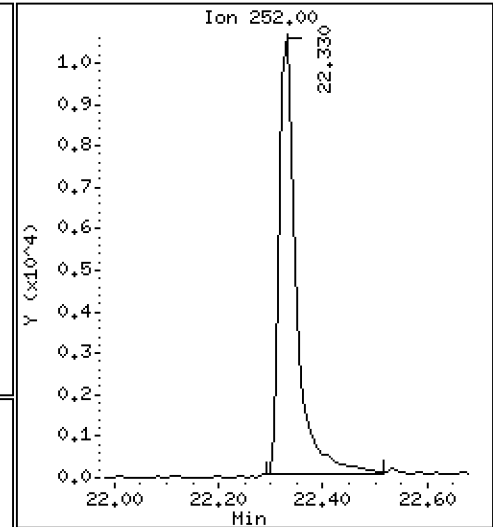
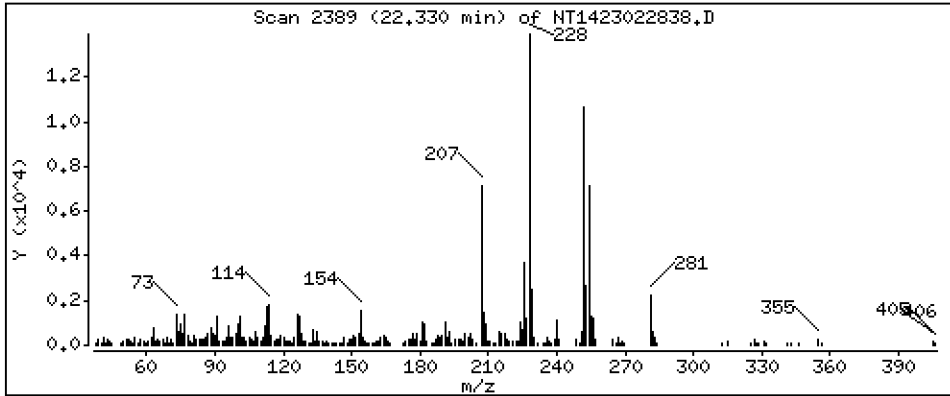
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

70 3,3'-Dichlorobenzidine

Concentration: 0,7194 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

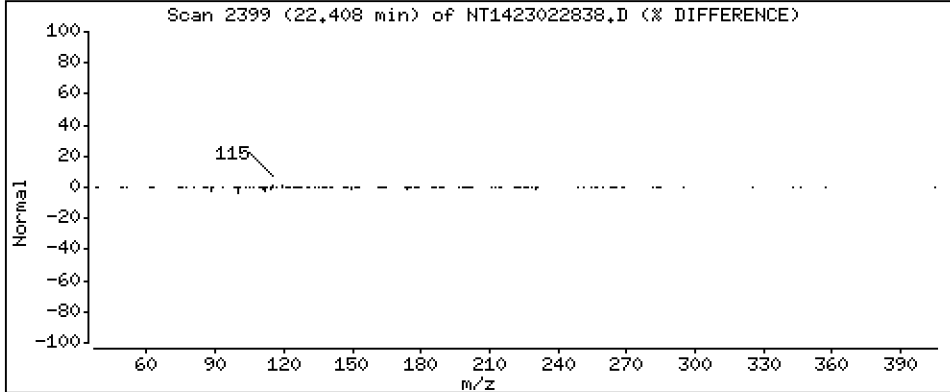
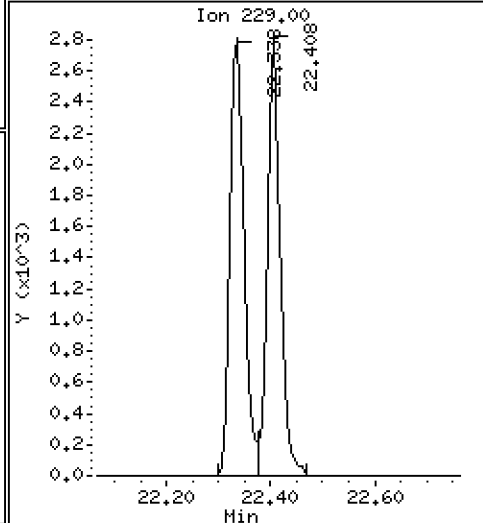
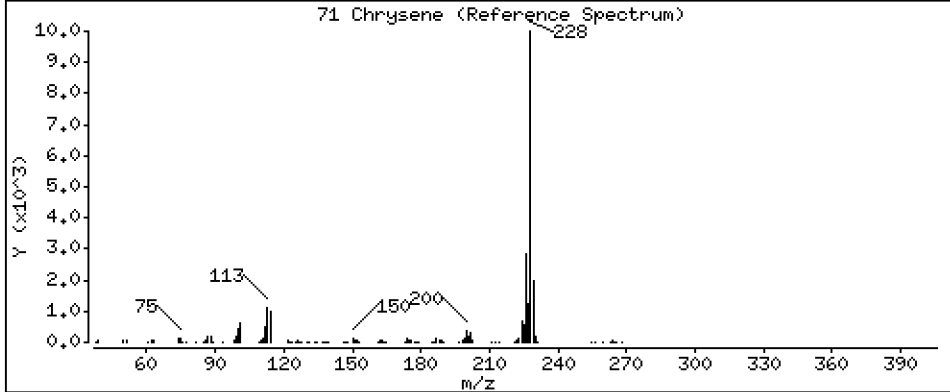
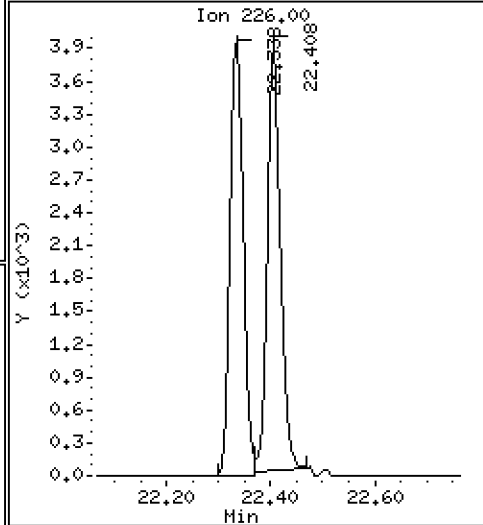
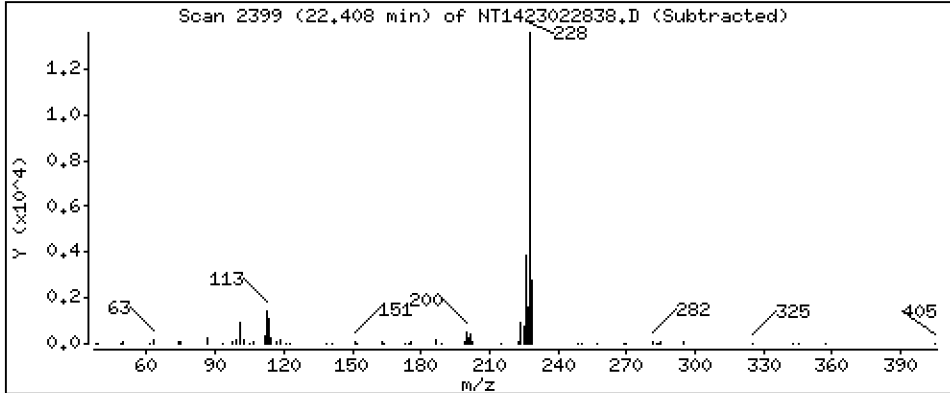
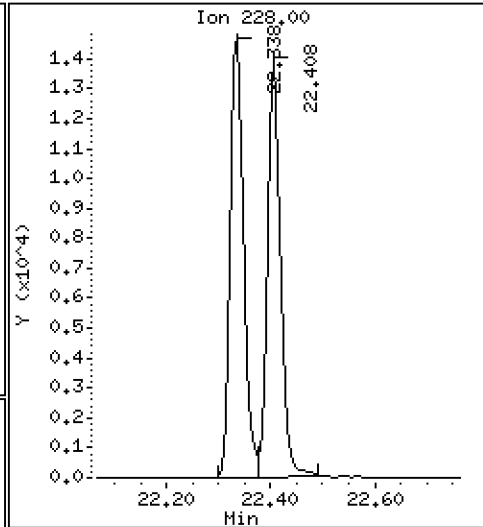
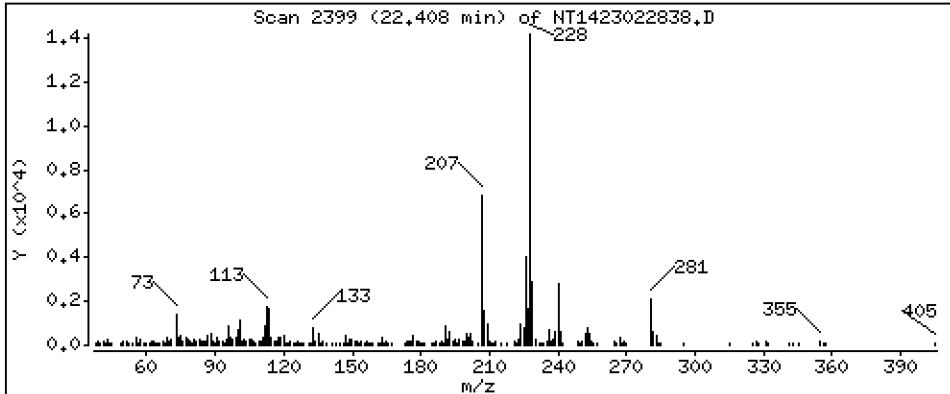
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 0,2150 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

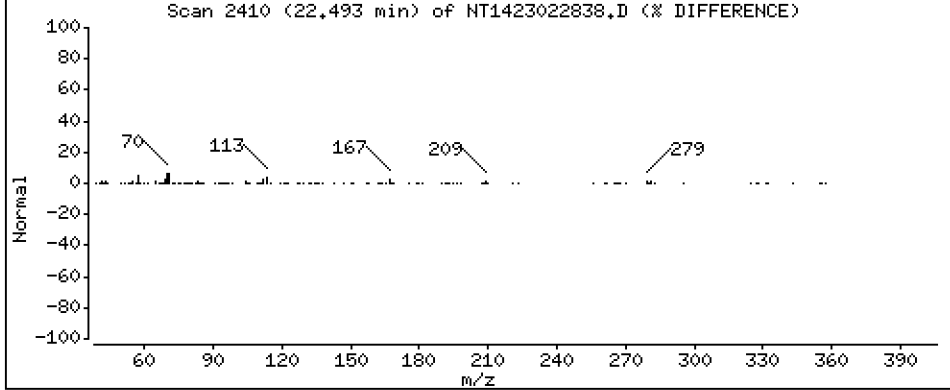
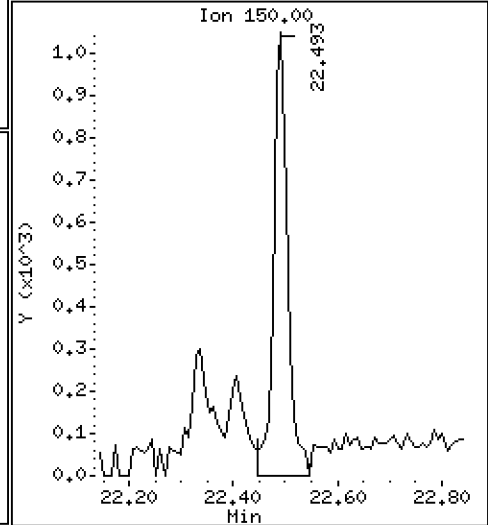
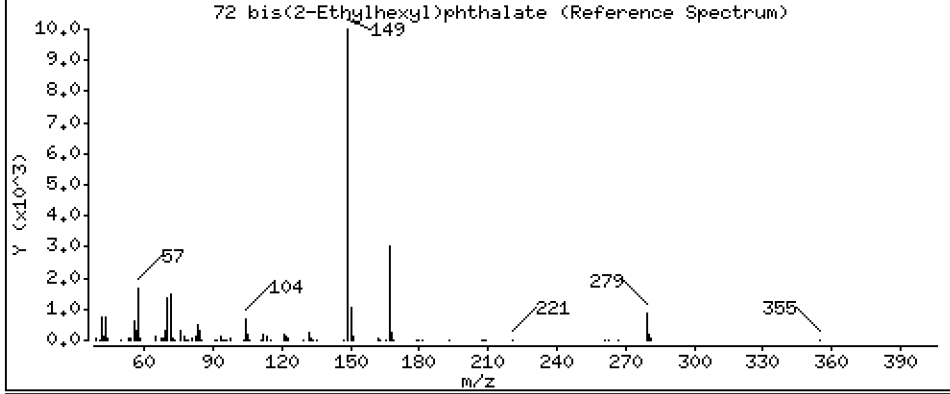
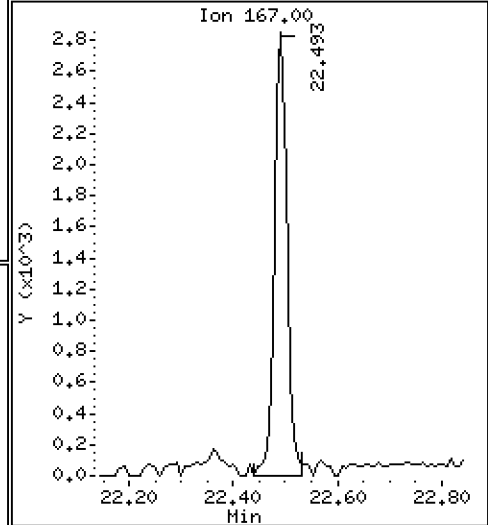
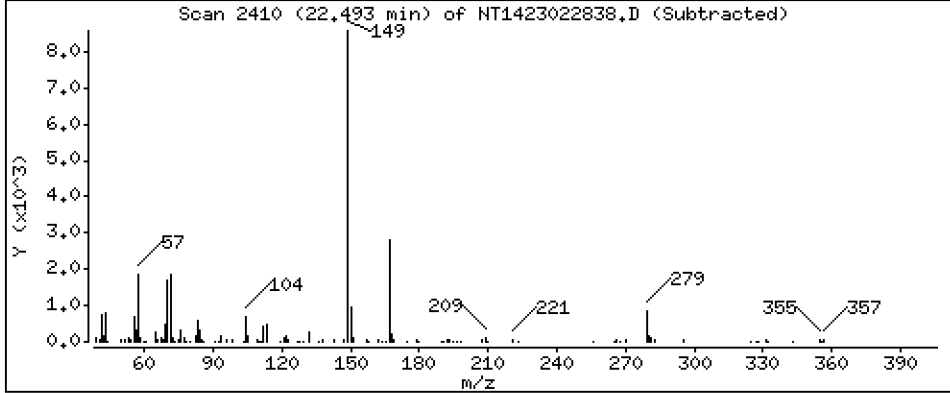
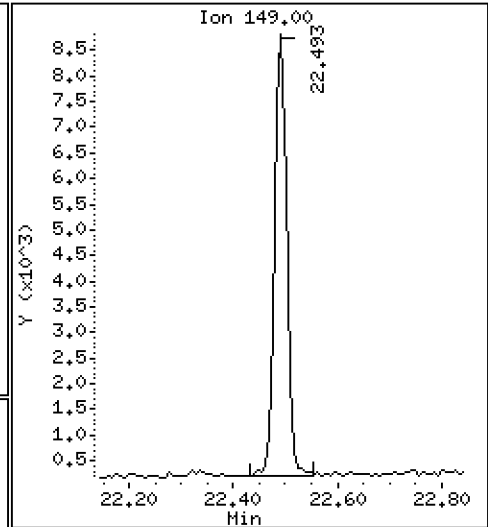
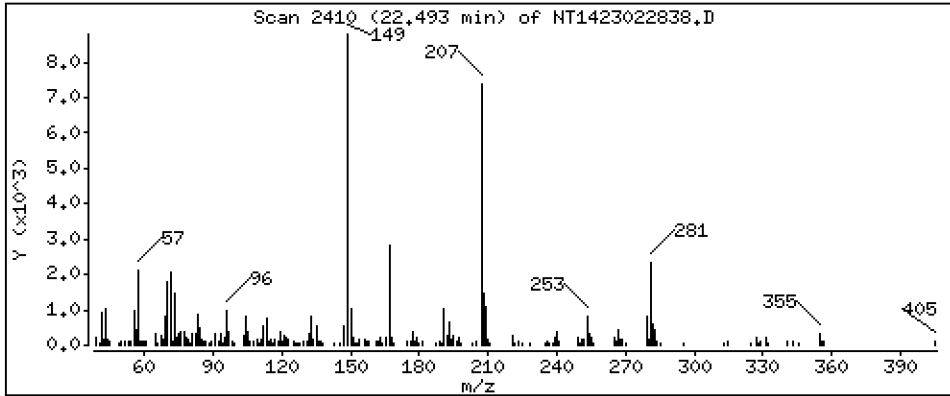
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 0,1769 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

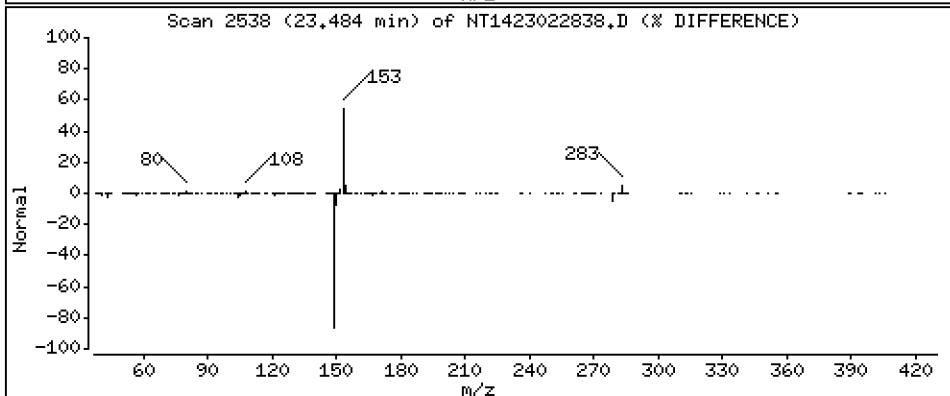
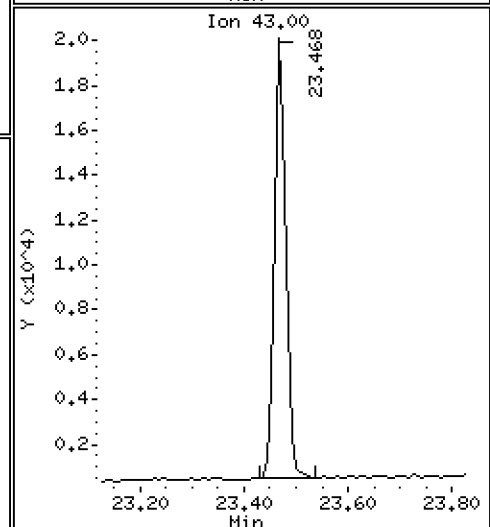
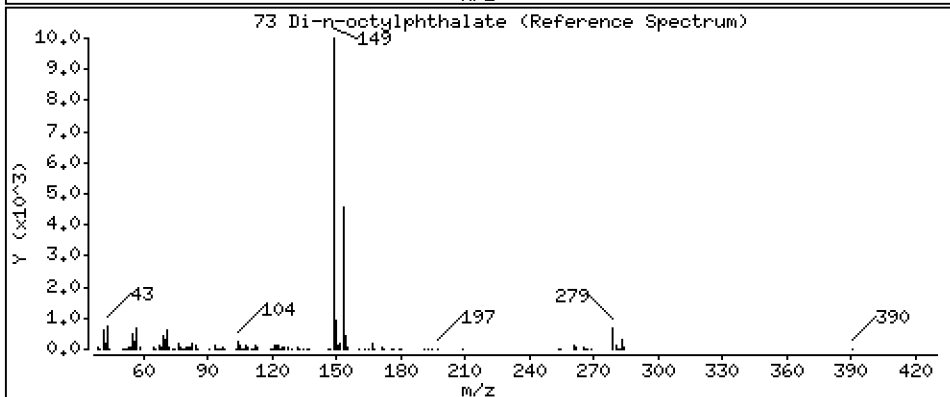
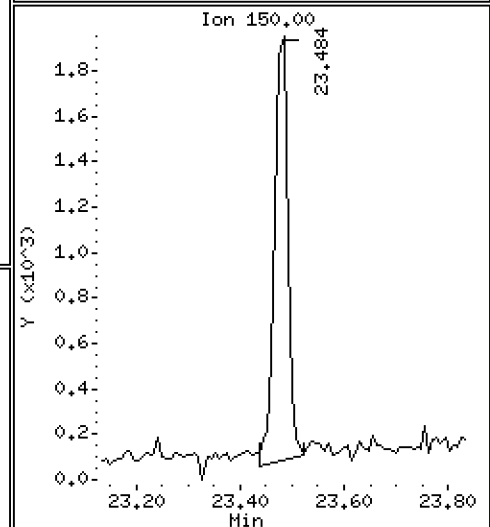
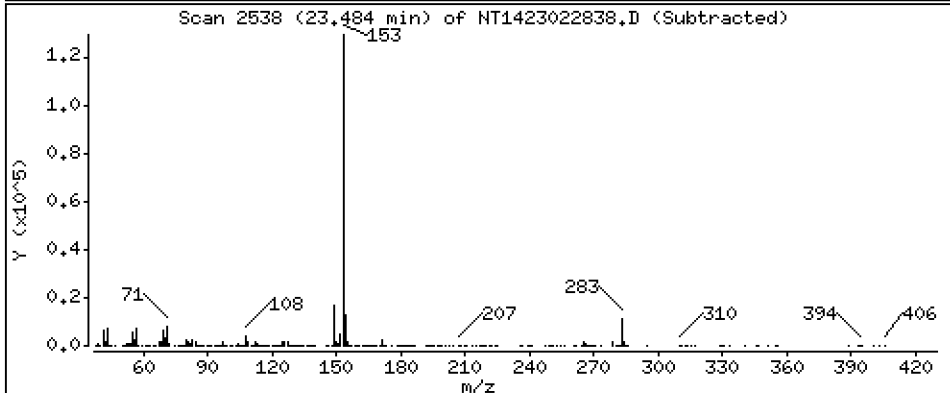
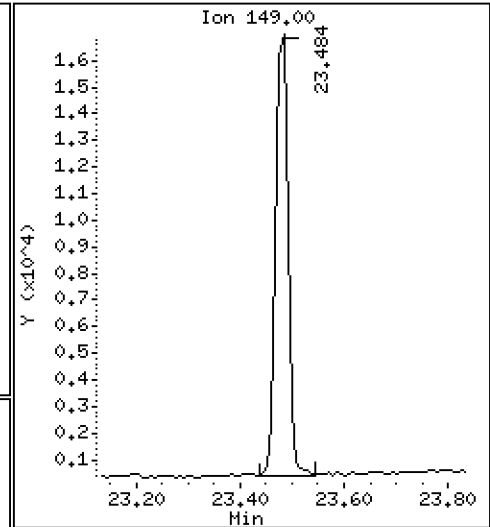
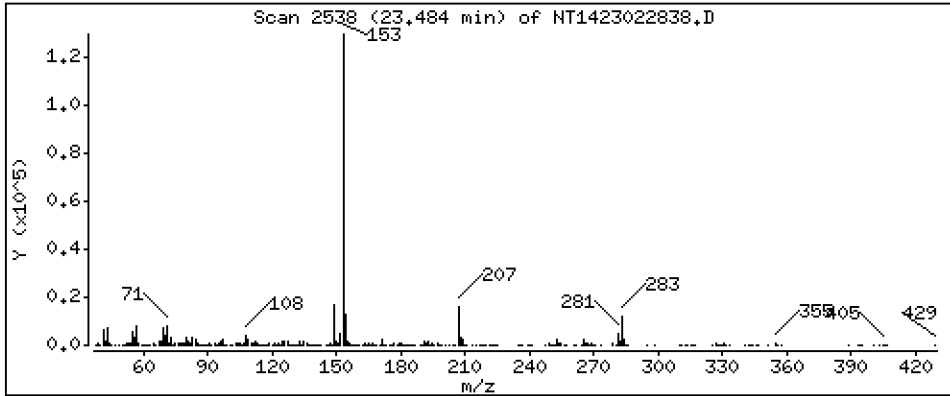
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 0,2029 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

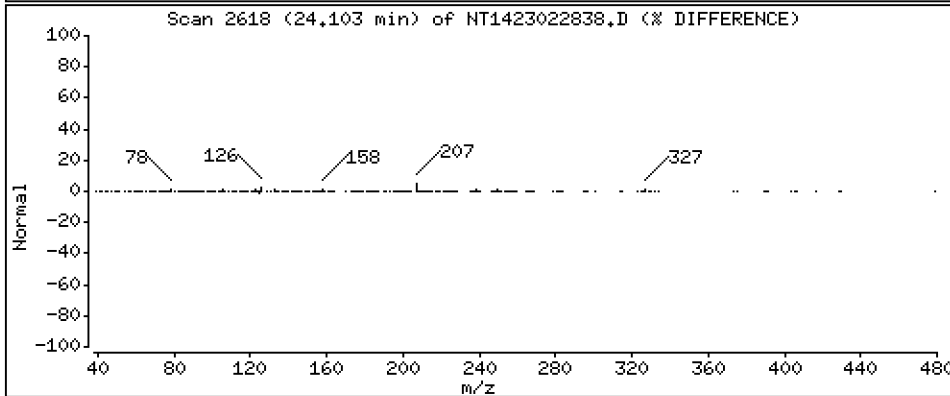
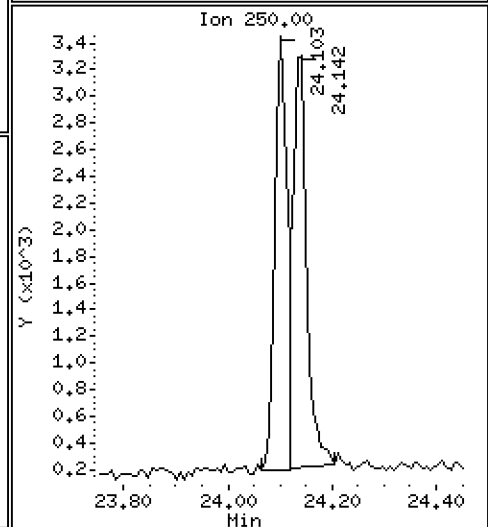
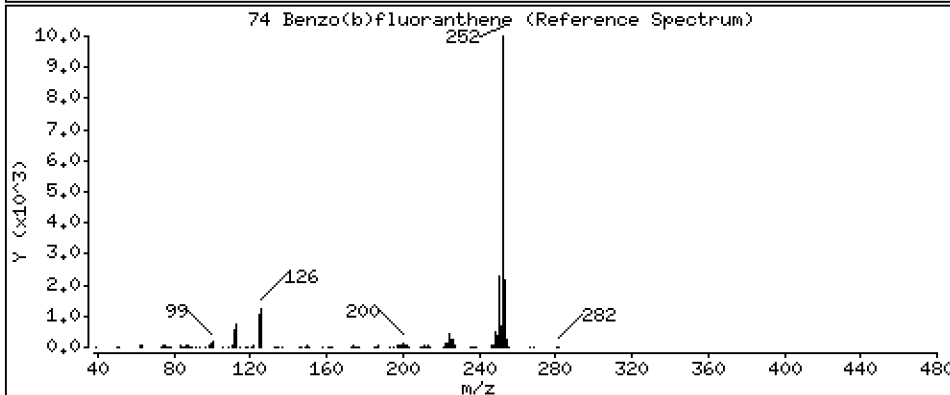
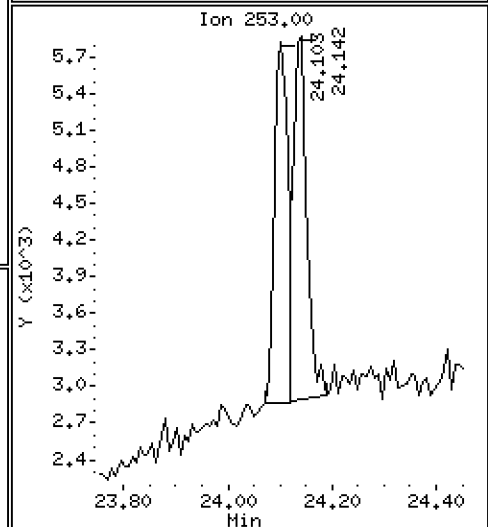
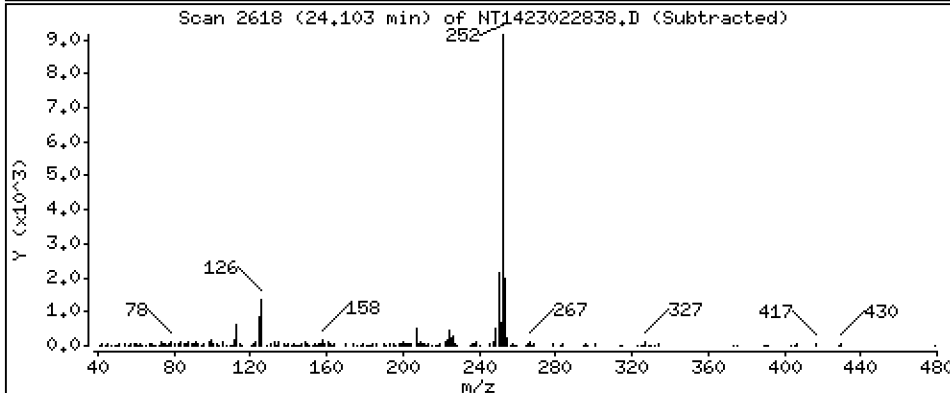
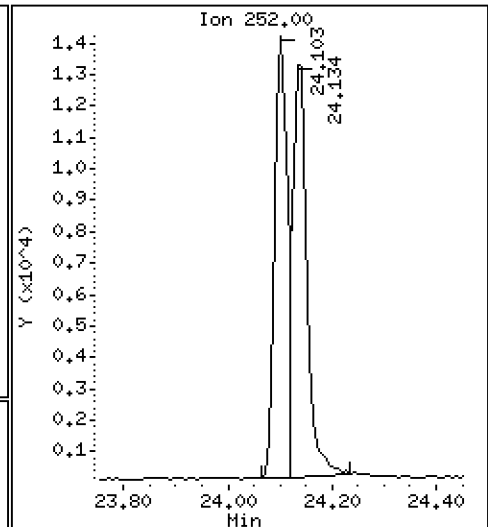
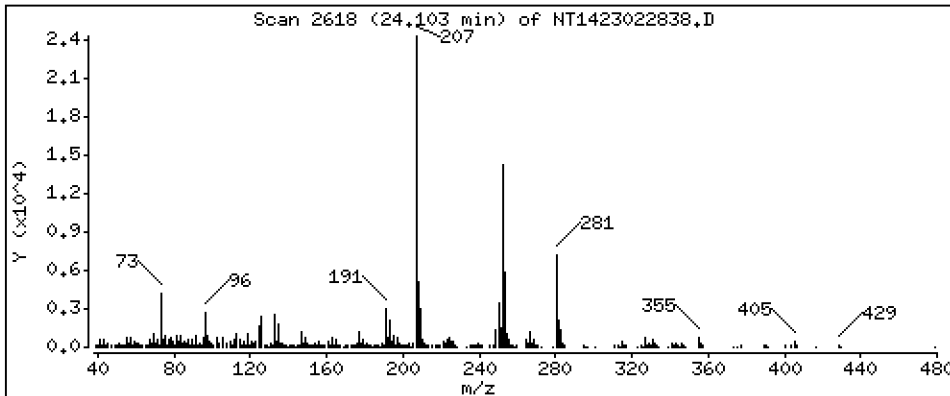
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 0,2228 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

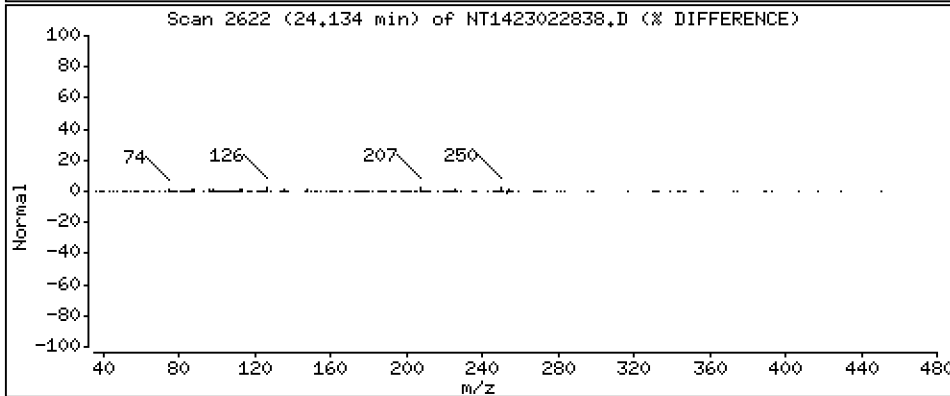
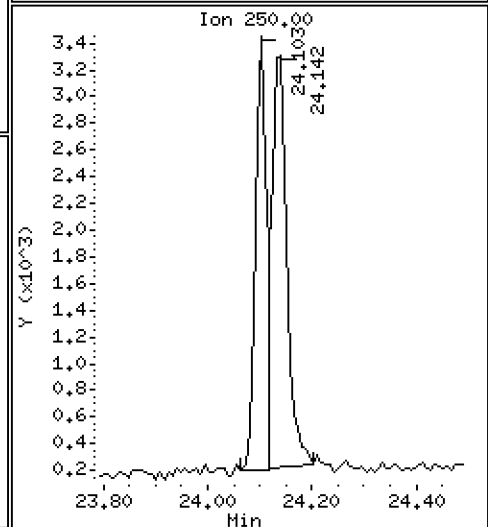
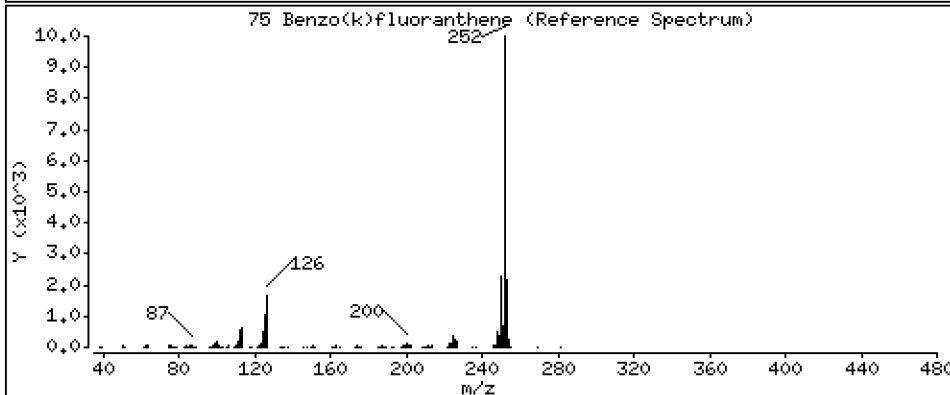
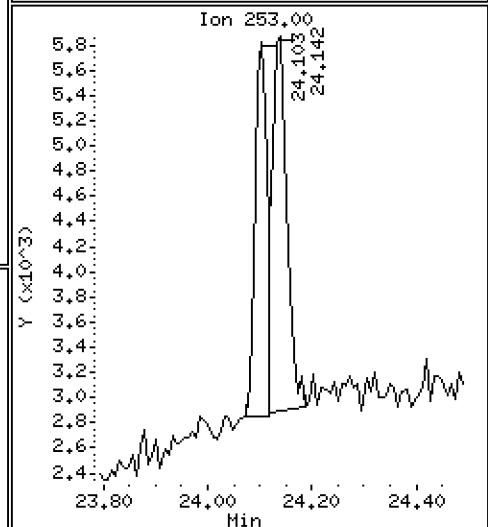
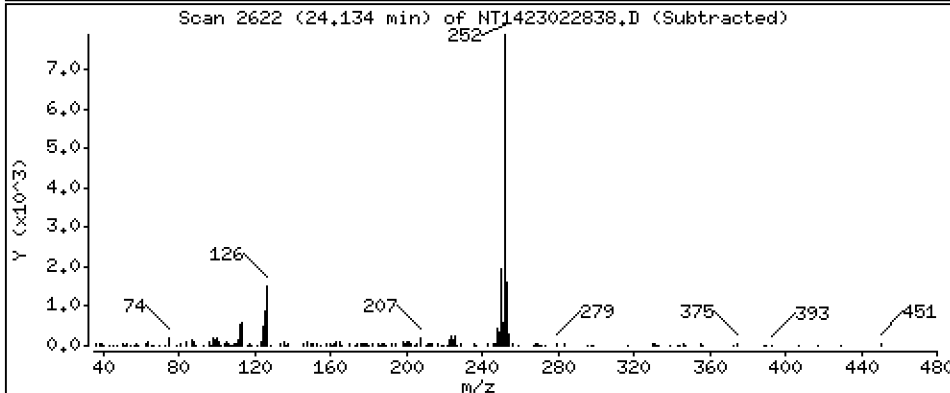
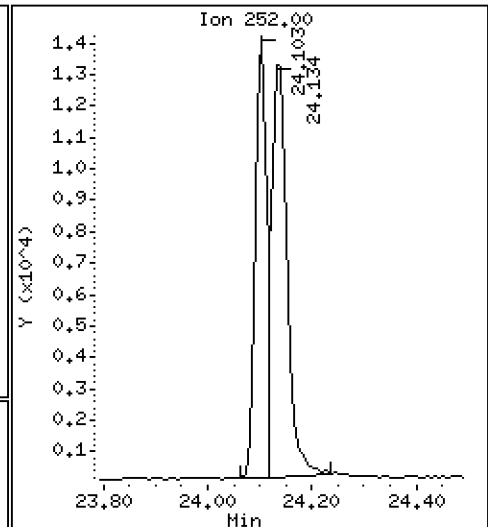
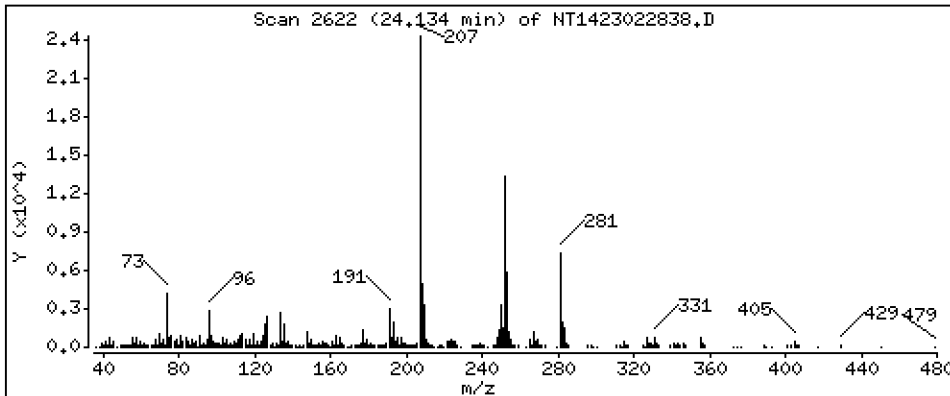
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 0,2464 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

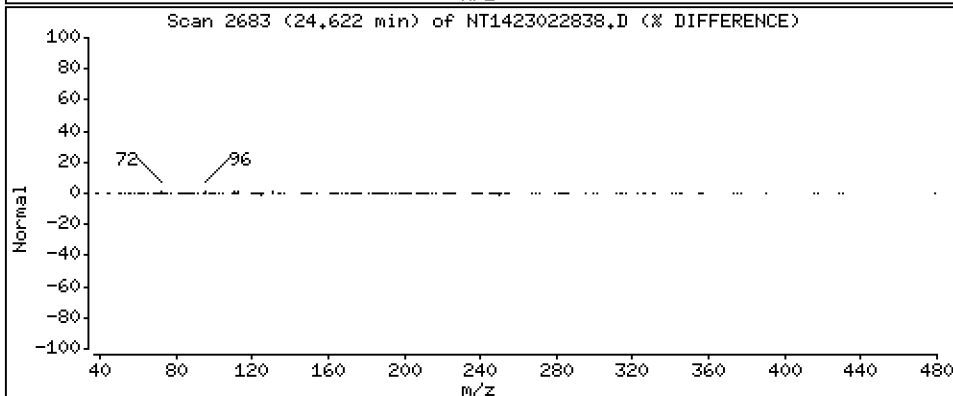
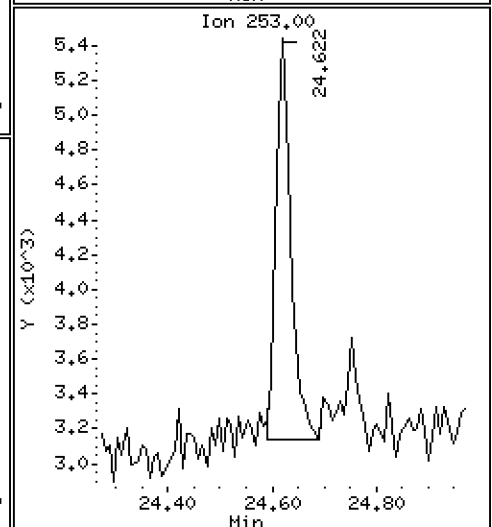
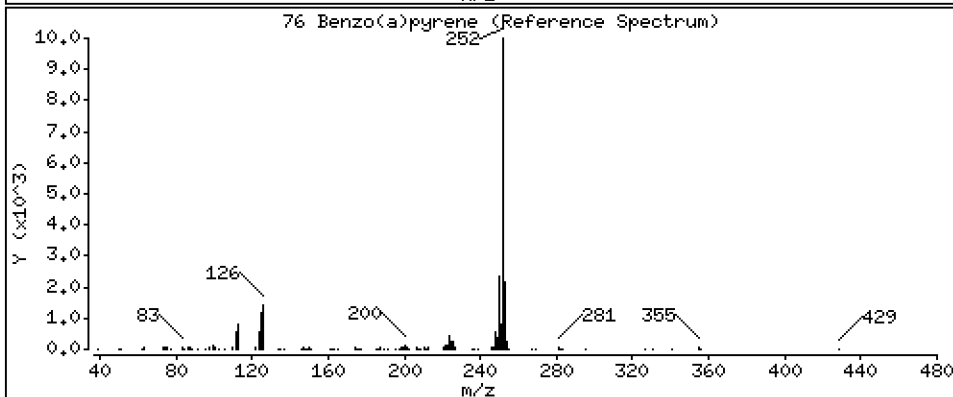
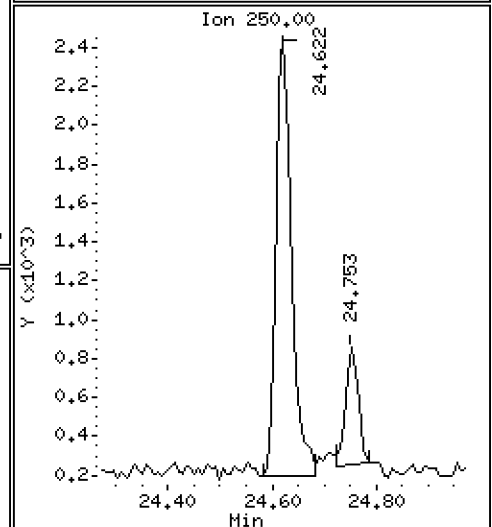
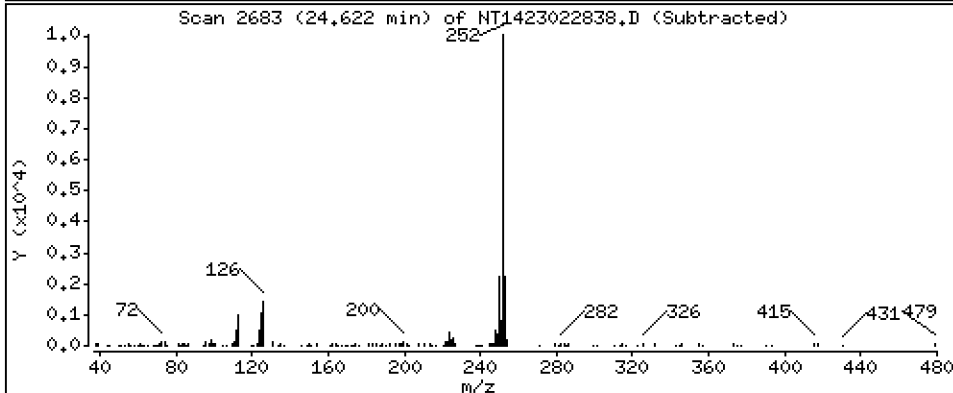
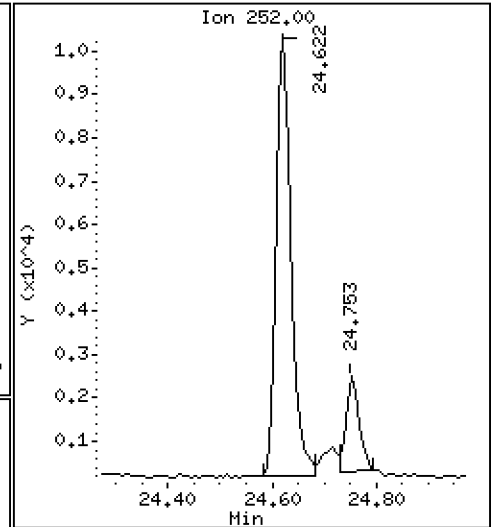
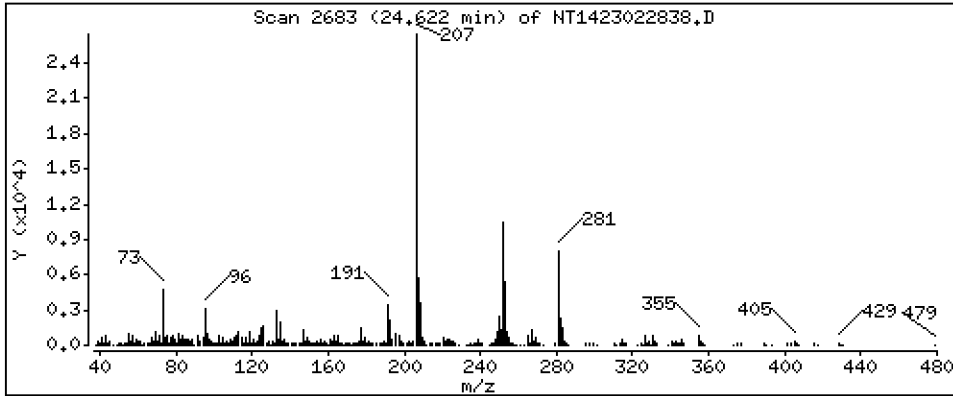
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 0,2128 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

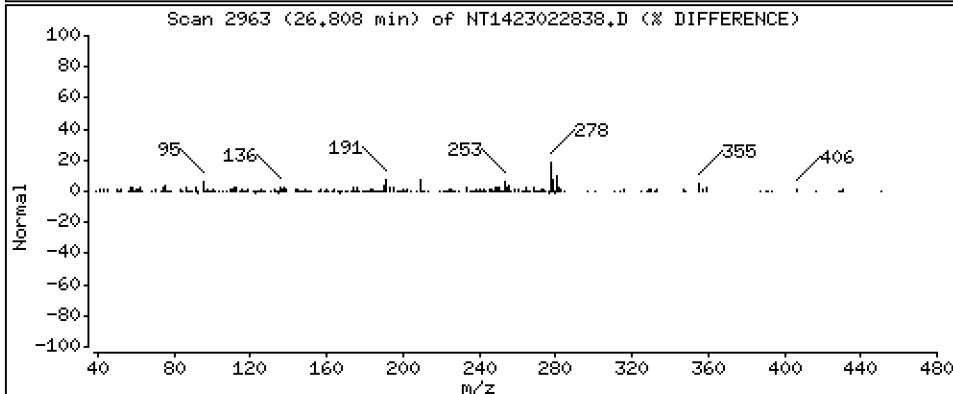
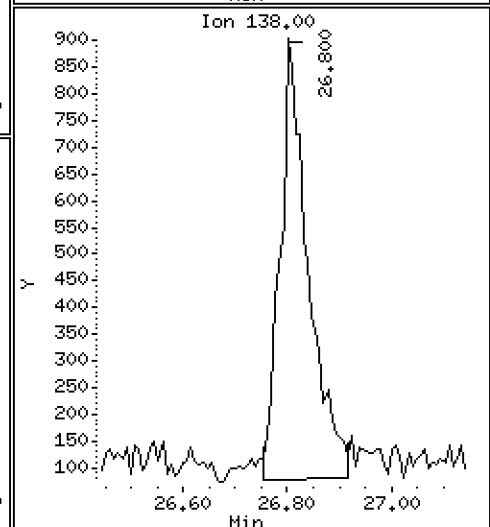
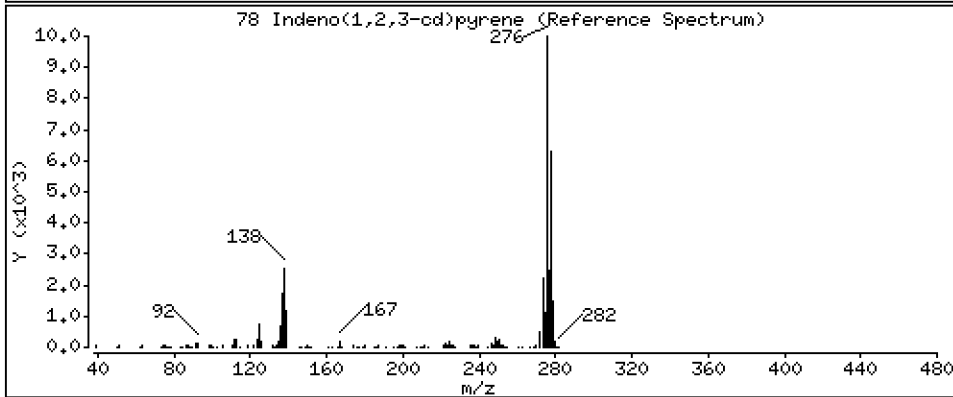
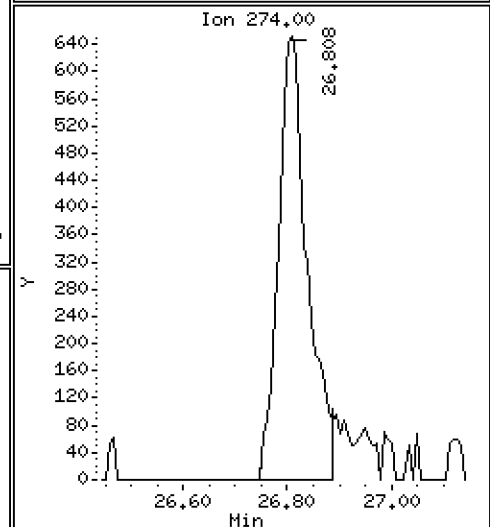
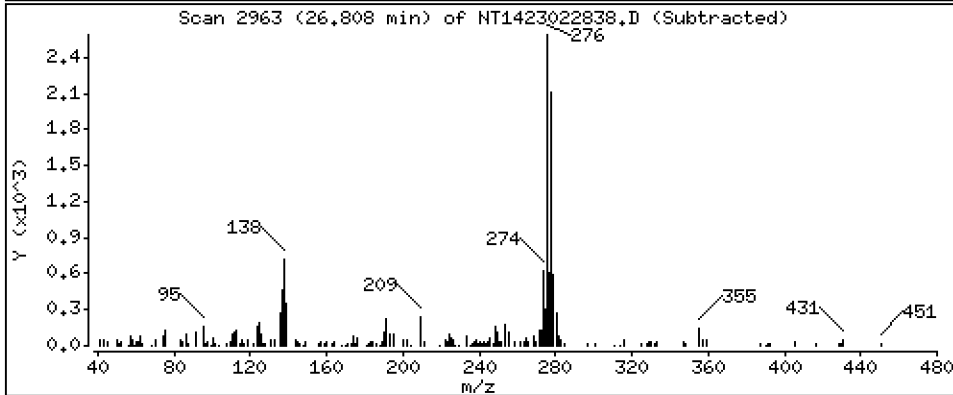
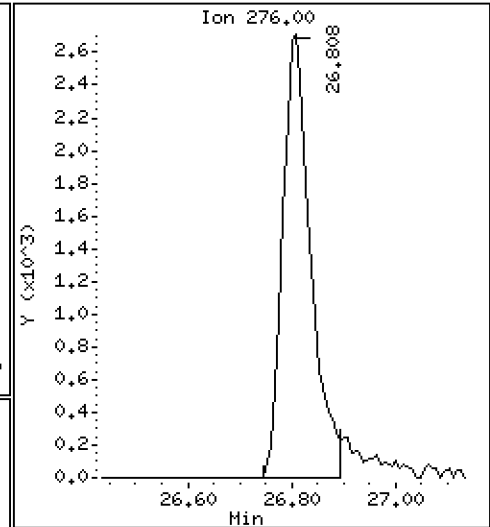
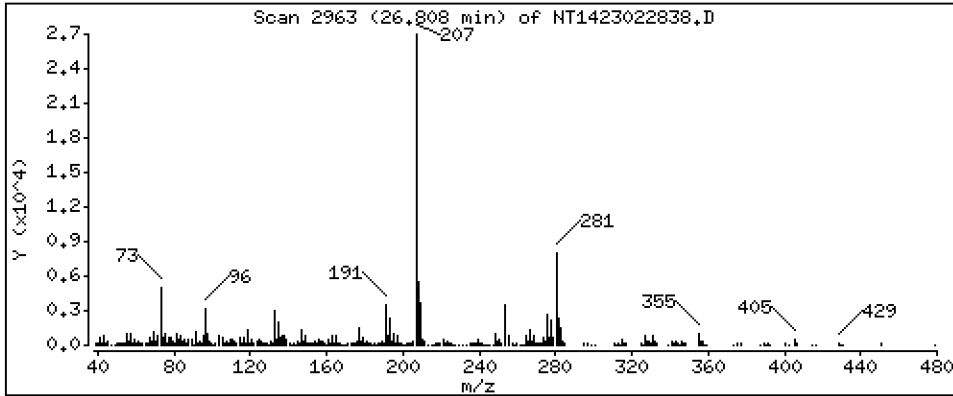
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 0,09023 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

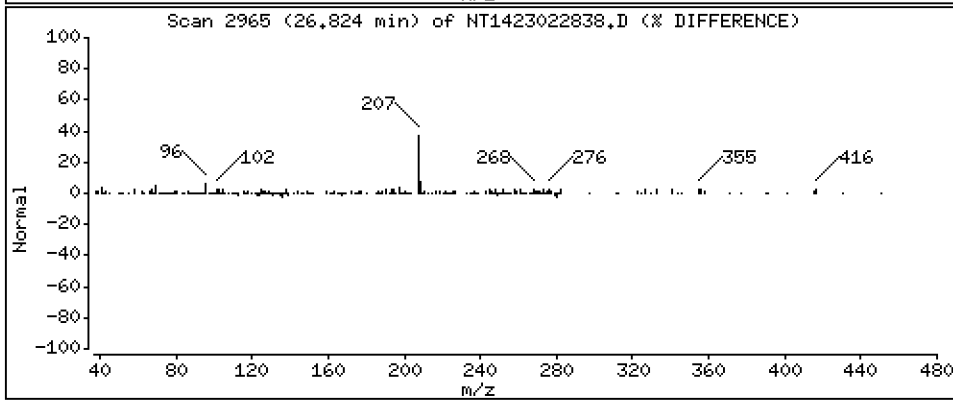
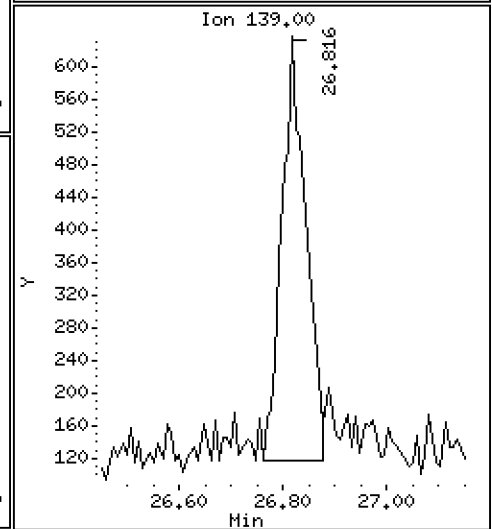
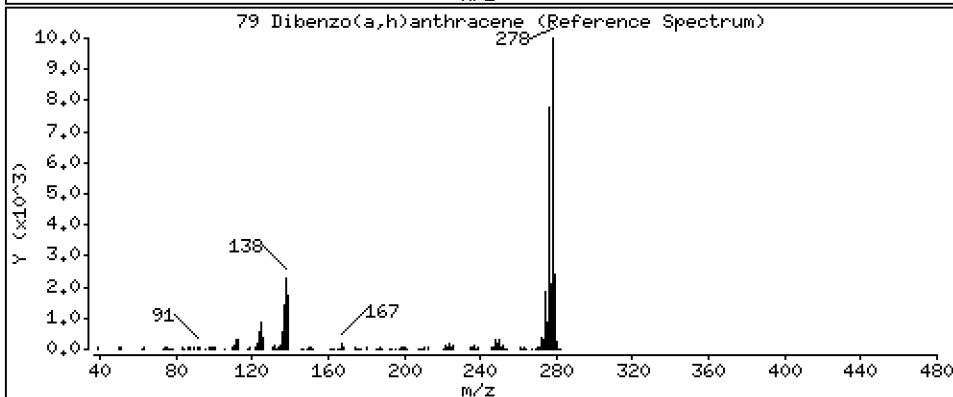
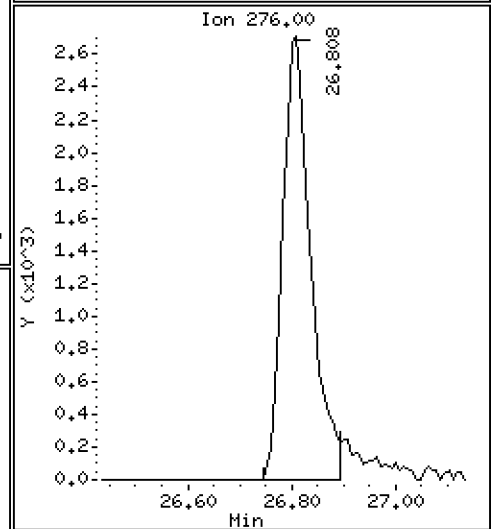
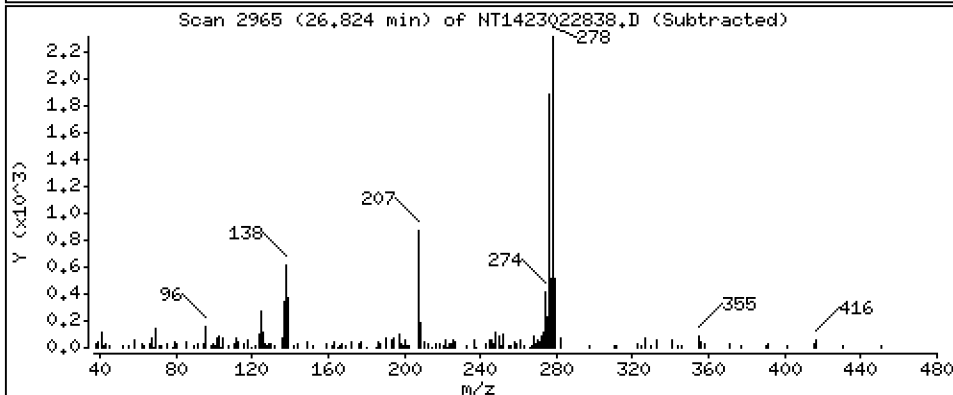
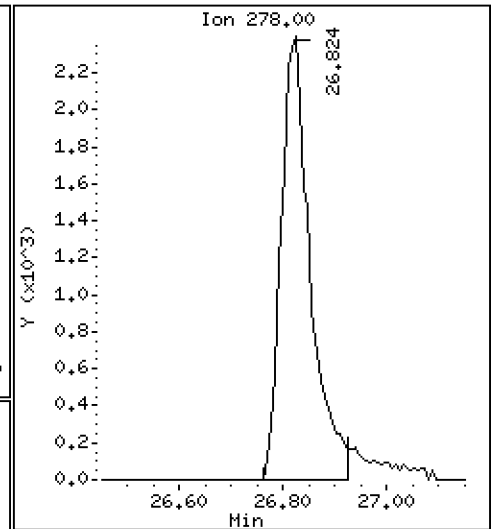
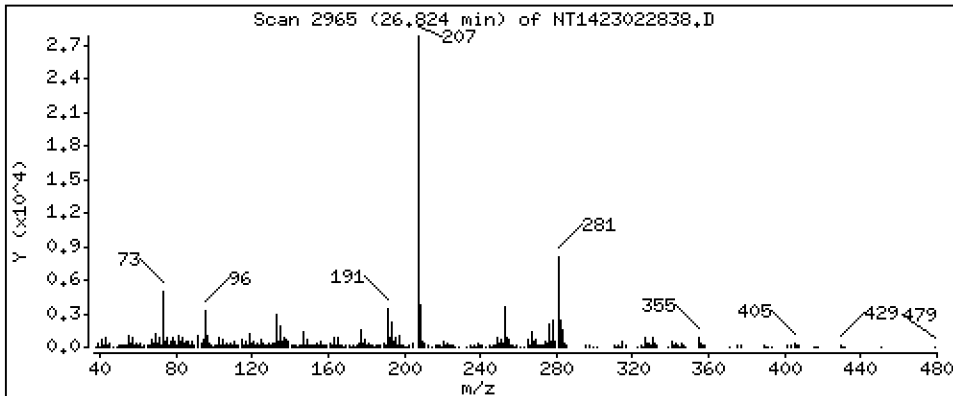
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 0,09853 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

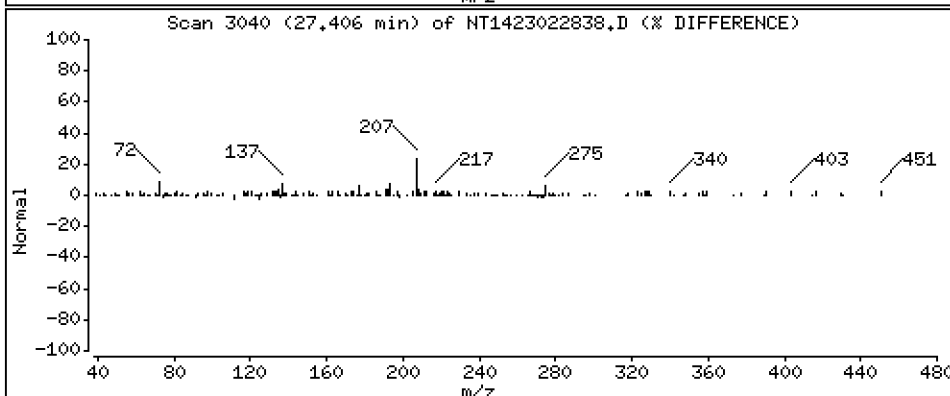
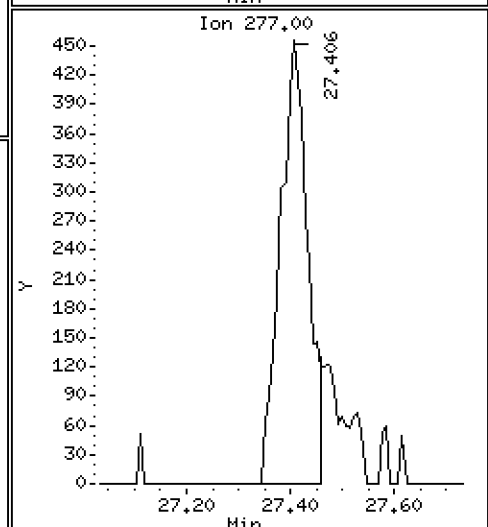
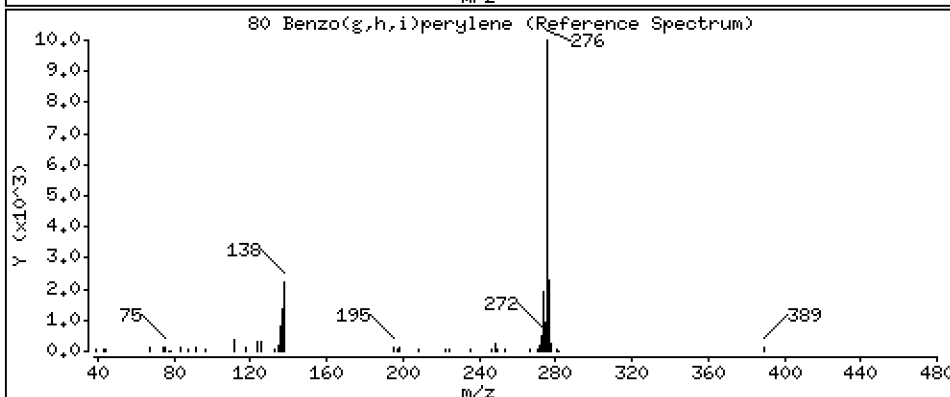
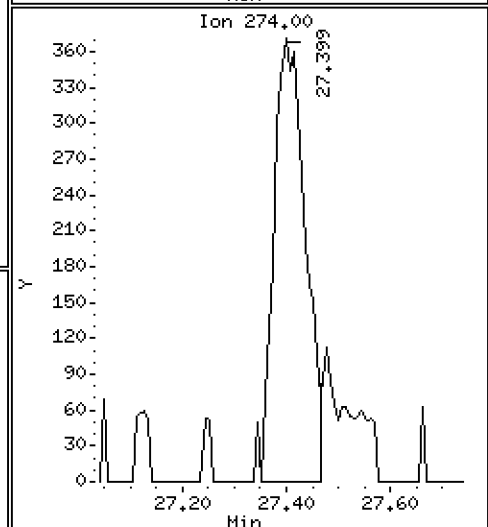
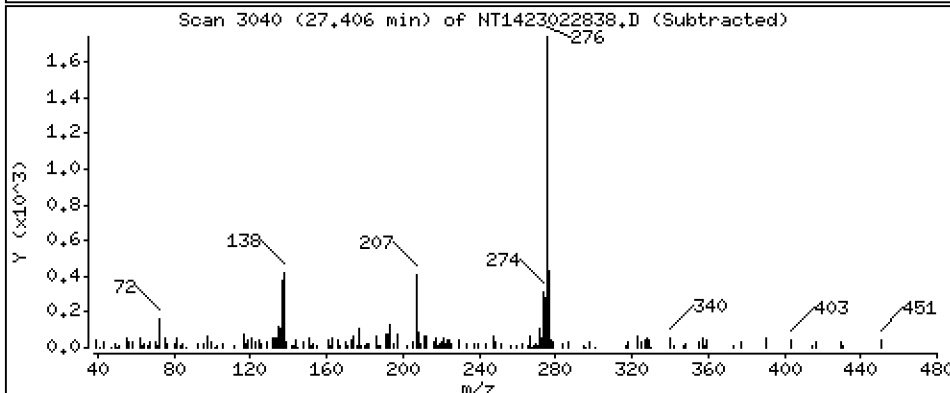
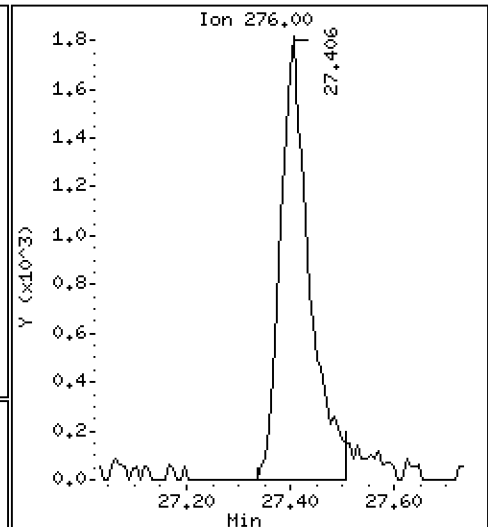
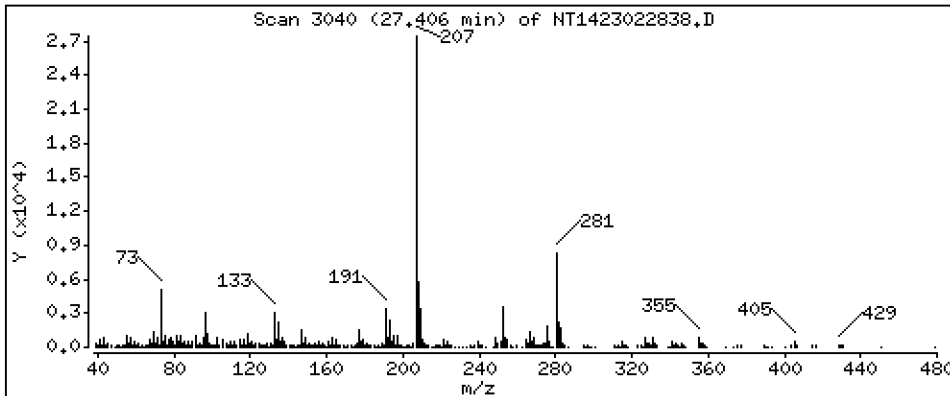
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 0,07140 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

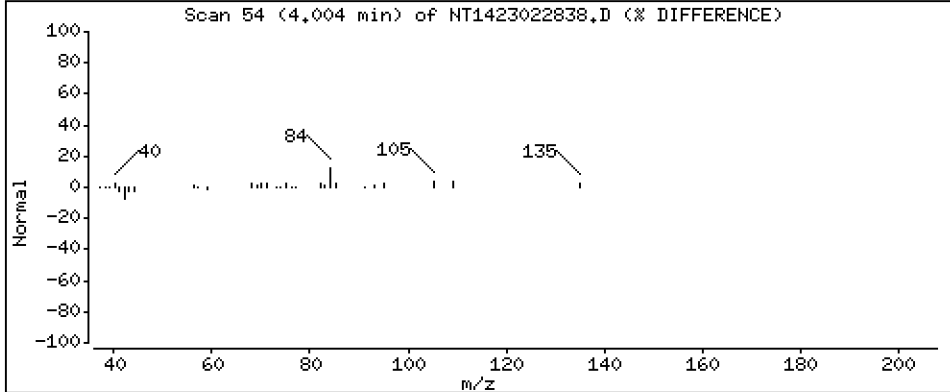
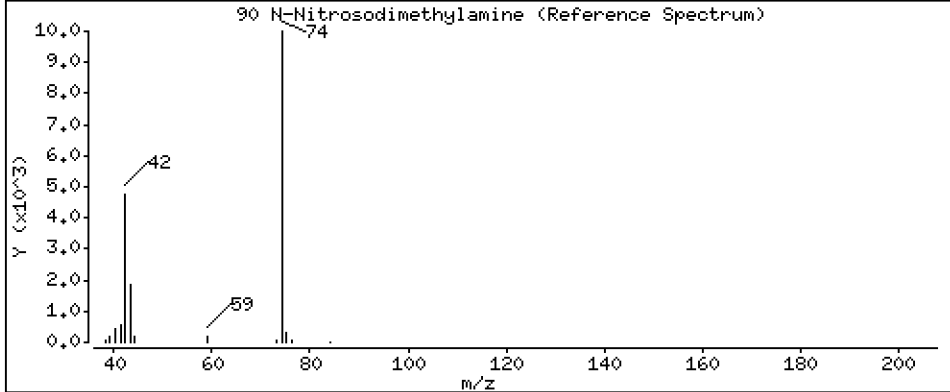
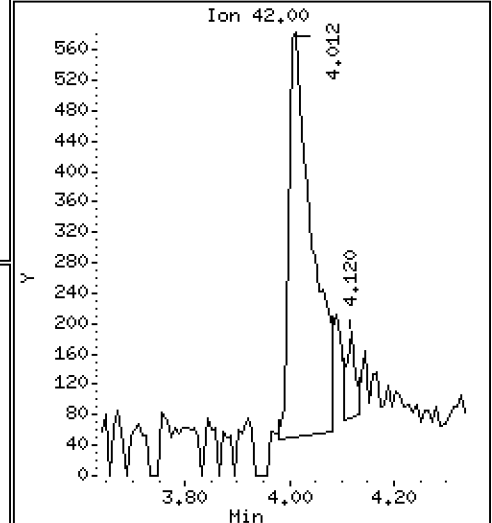
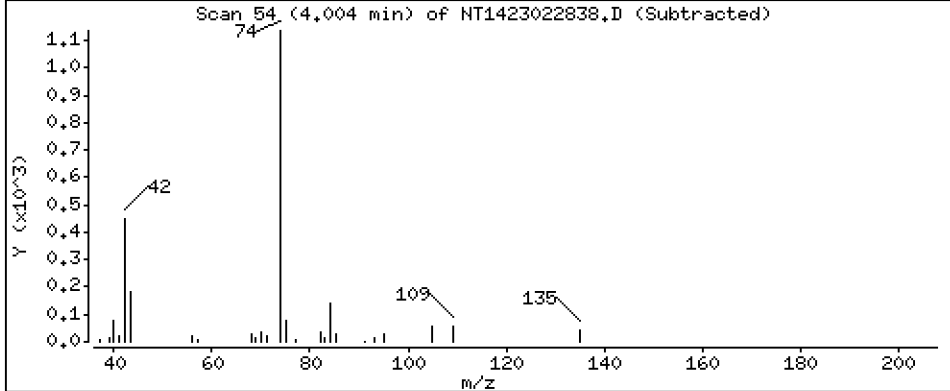
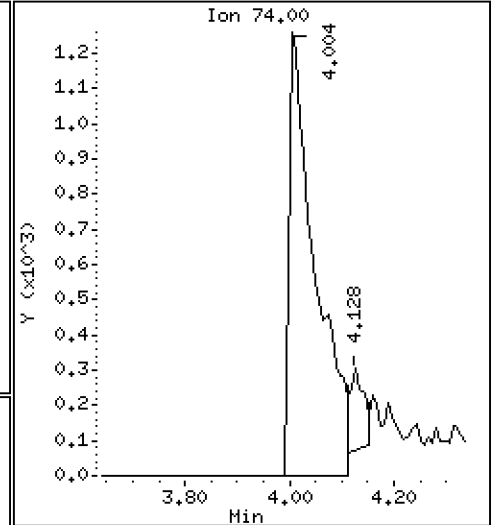
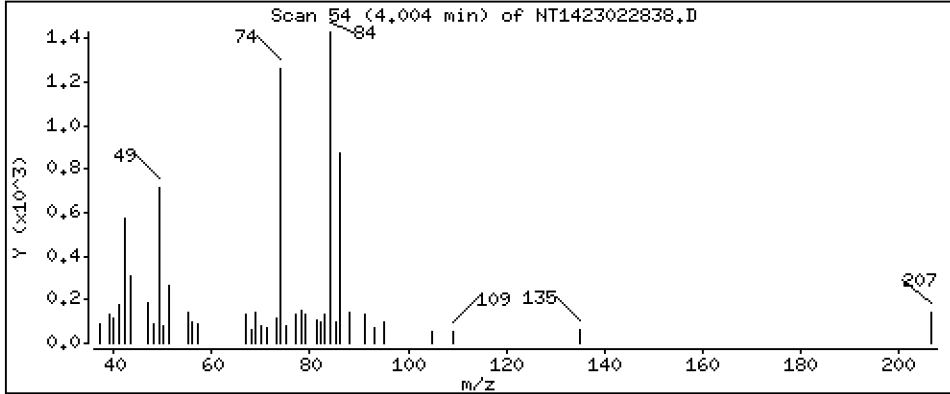
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

90 N-Nitrosodimethylamine

Concentration: 0,1925 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

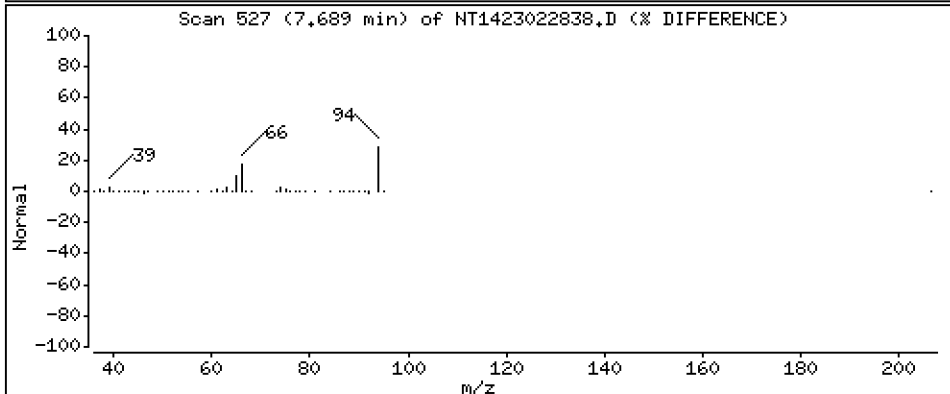
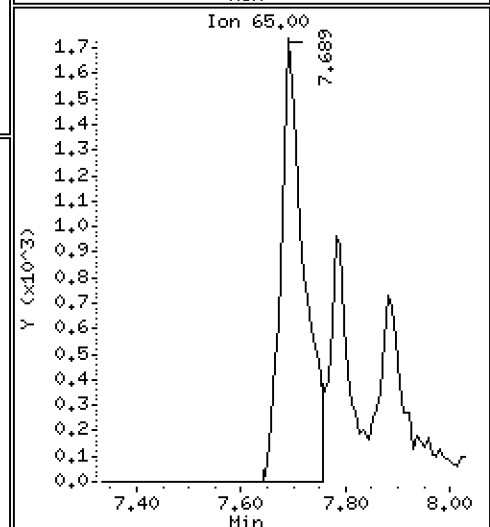
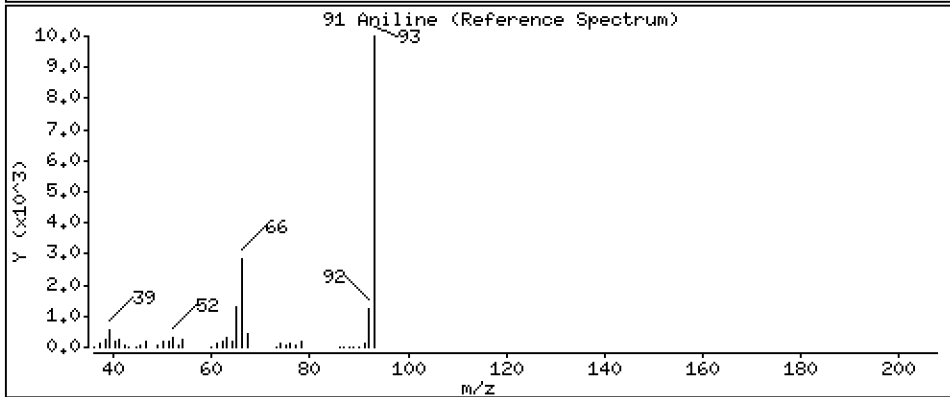
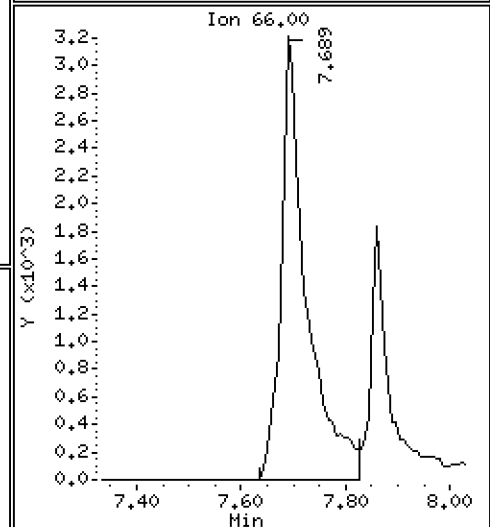
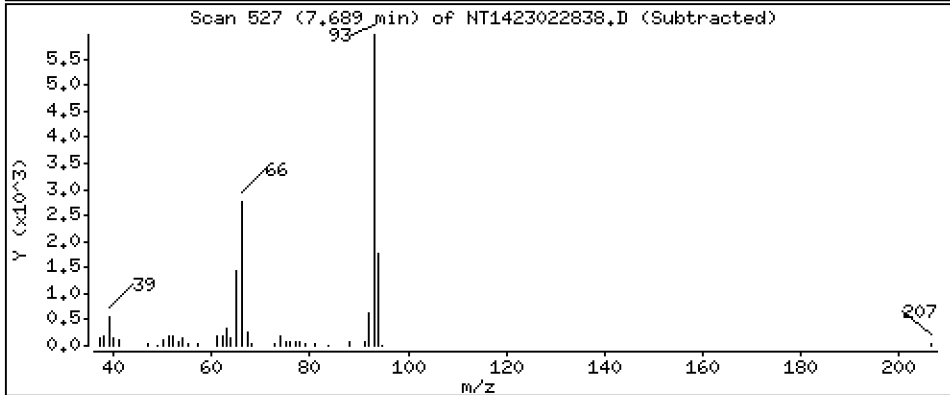
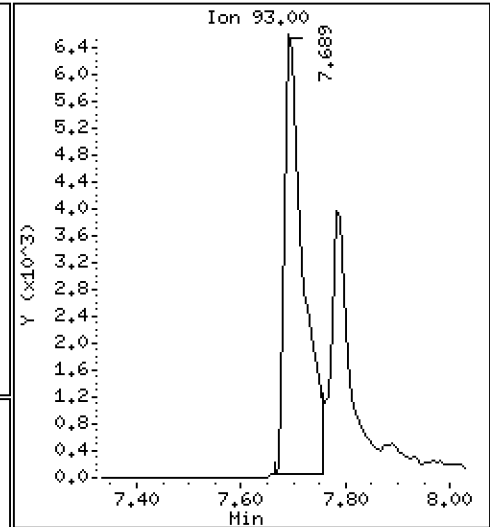
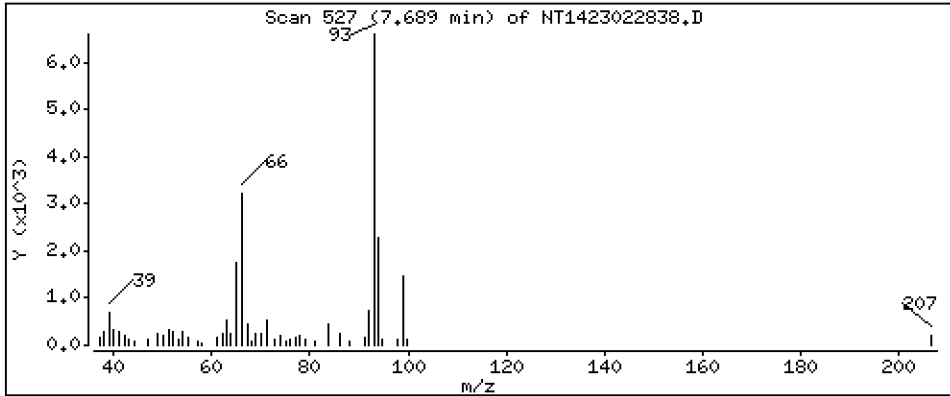
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

91 Aniline

Concentration: 0,3000 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

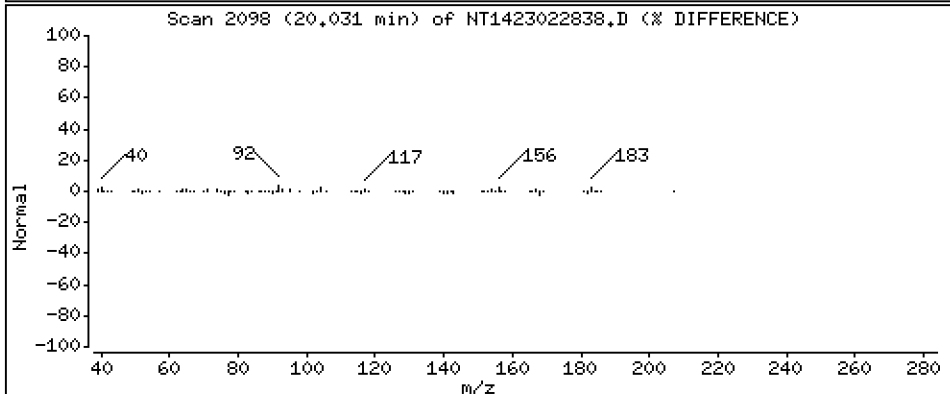
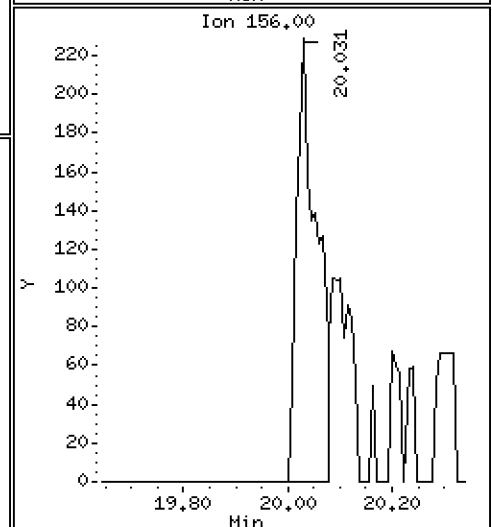
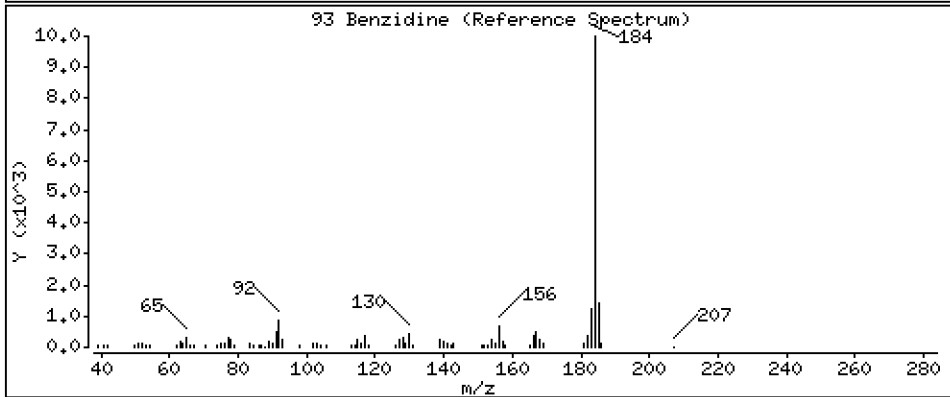
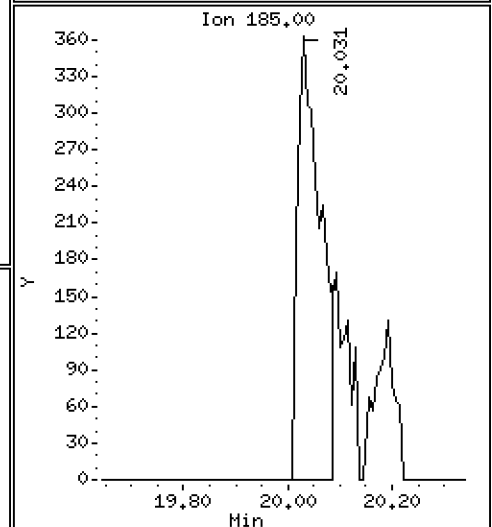
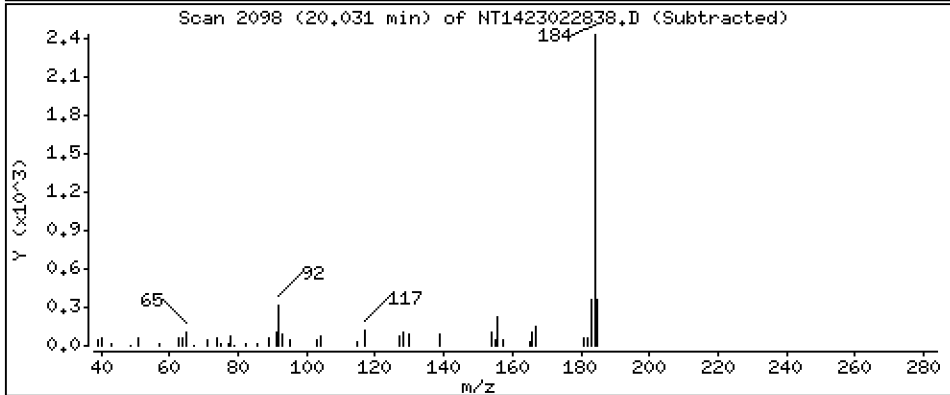
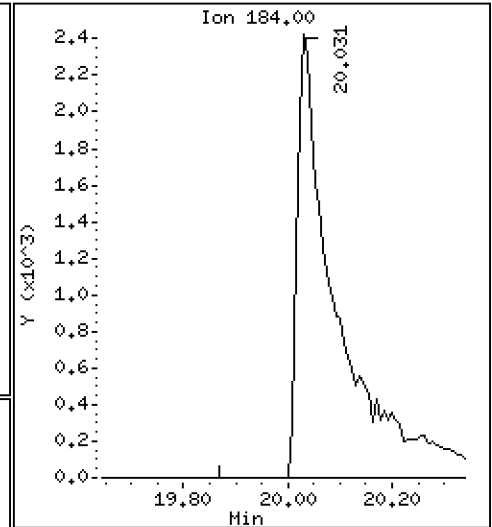
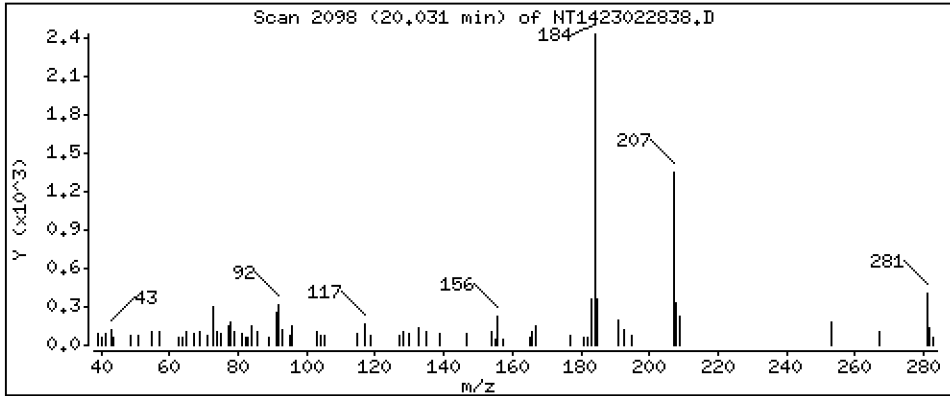
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

93 Benzidine

Concentration: 0,2721 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

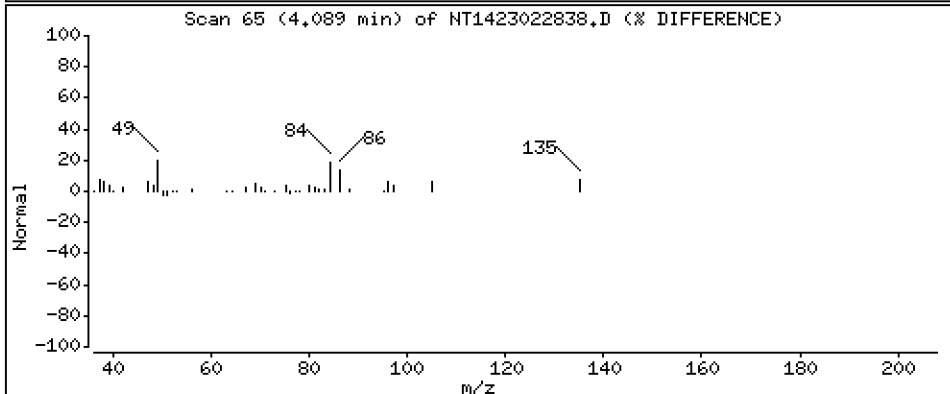
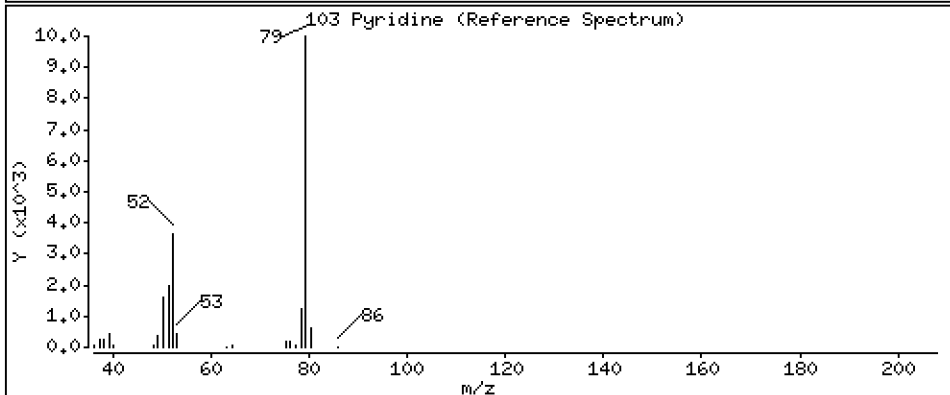
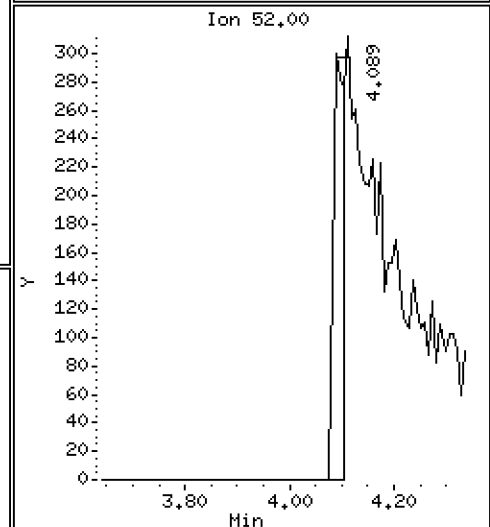
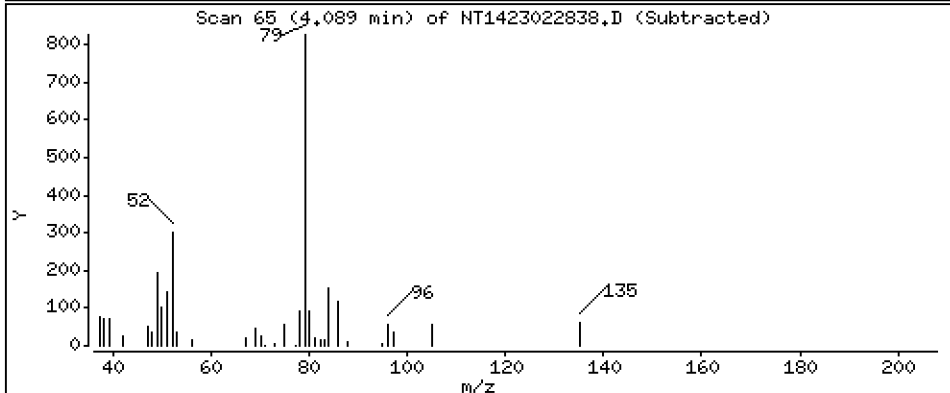
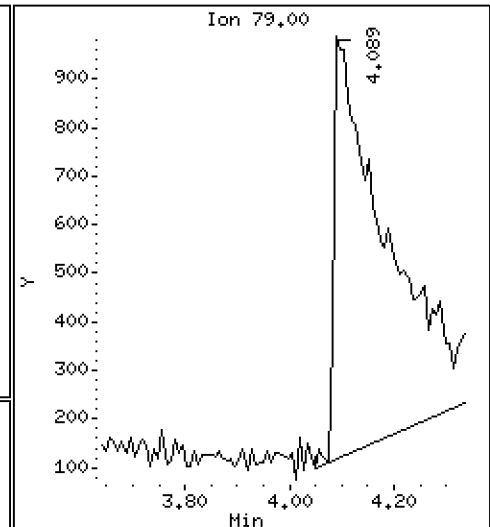
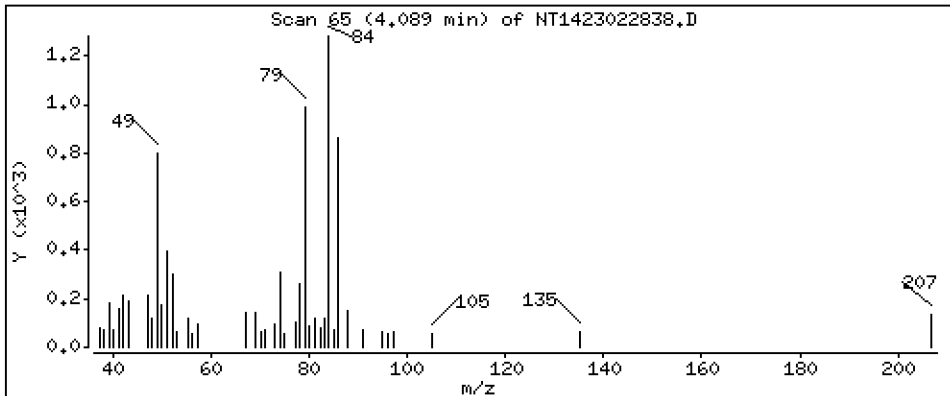
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

103 Pyridine

Concentration: 0,1132 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

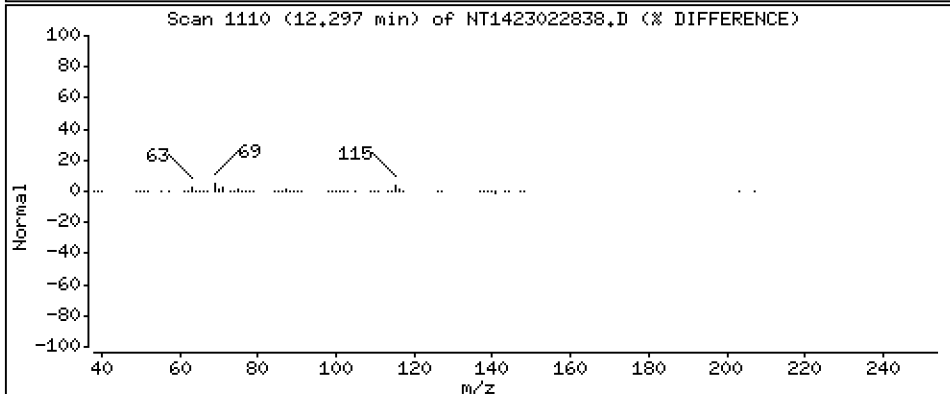
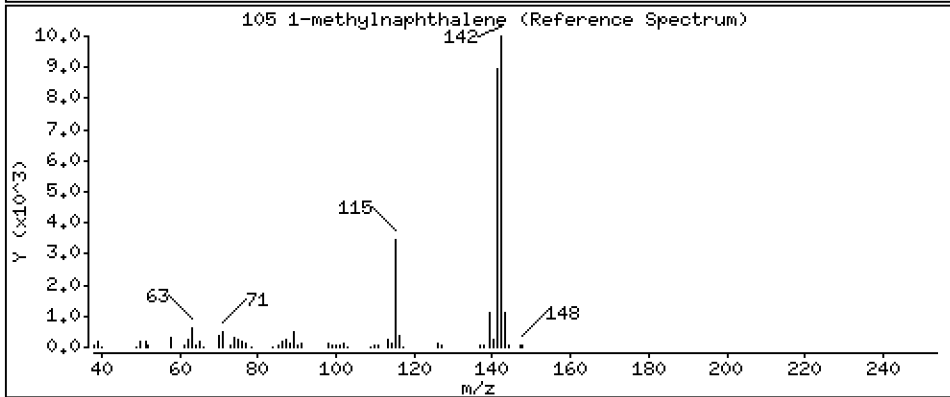
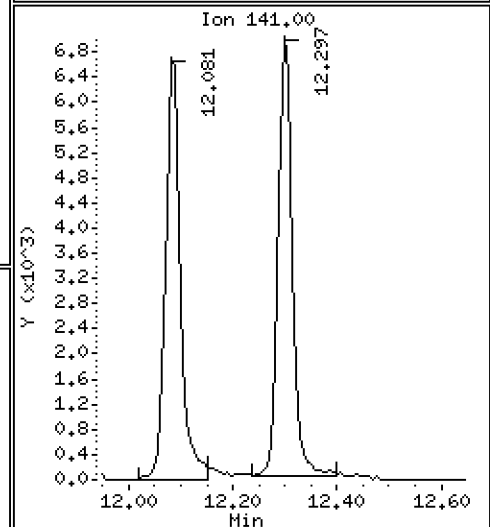
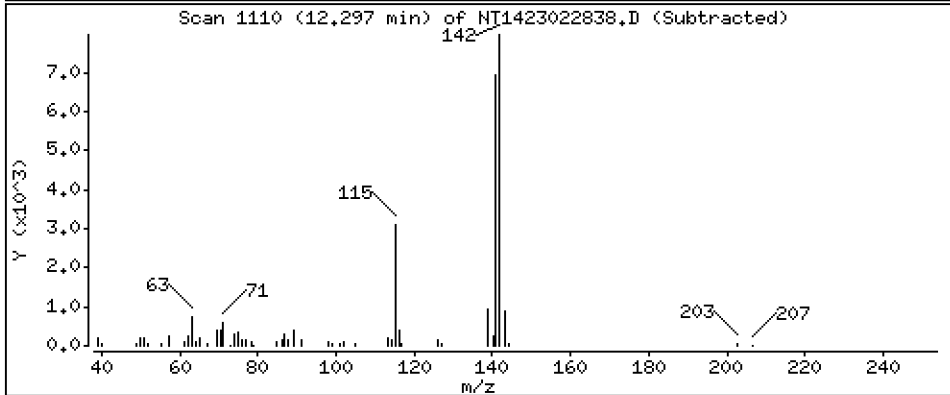
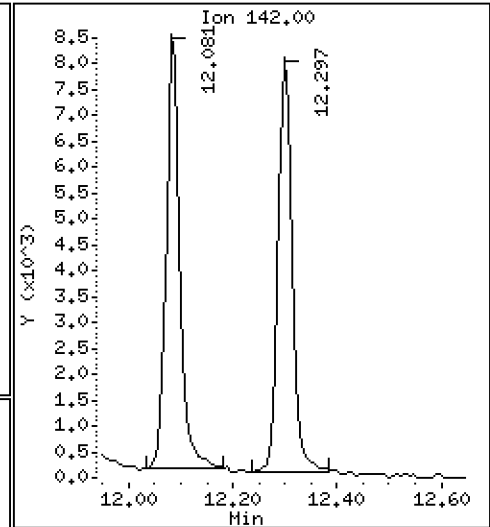
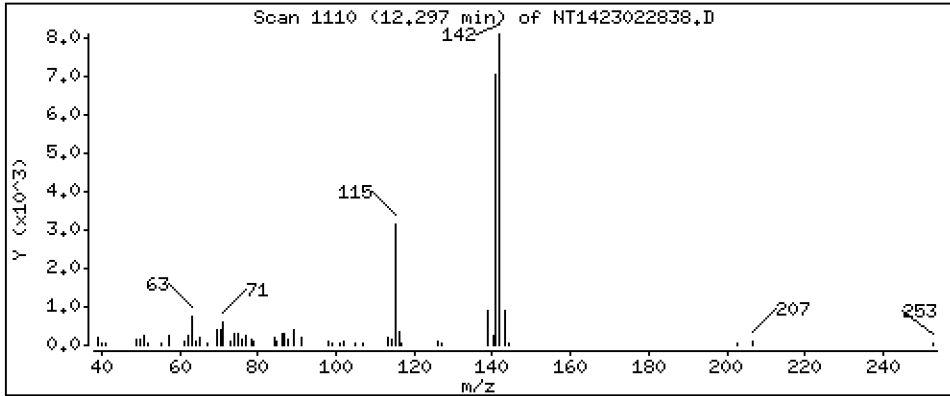
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 0,1946 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

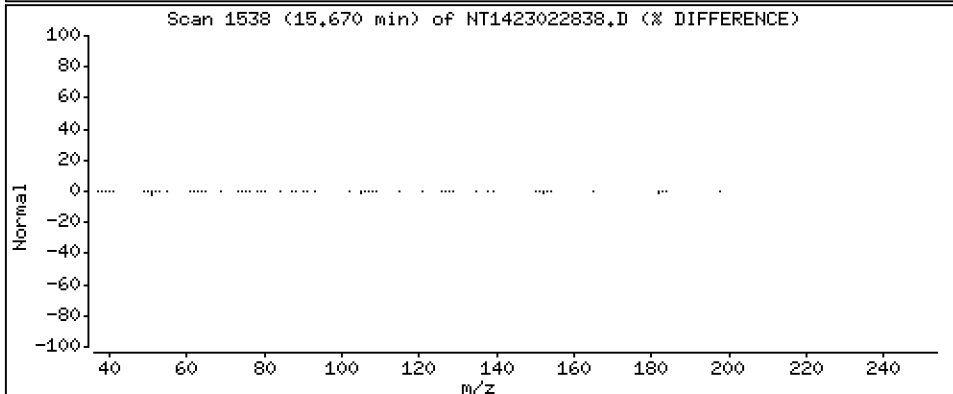
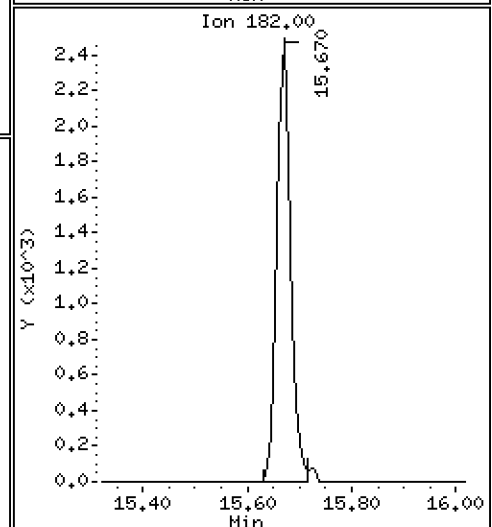
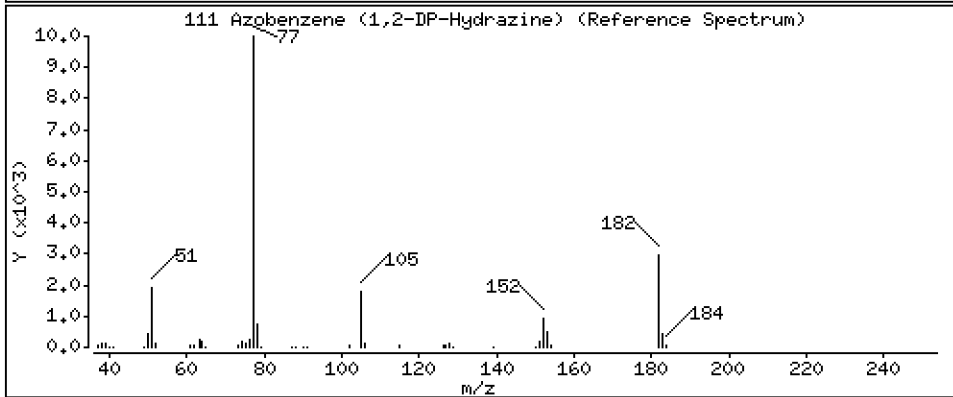
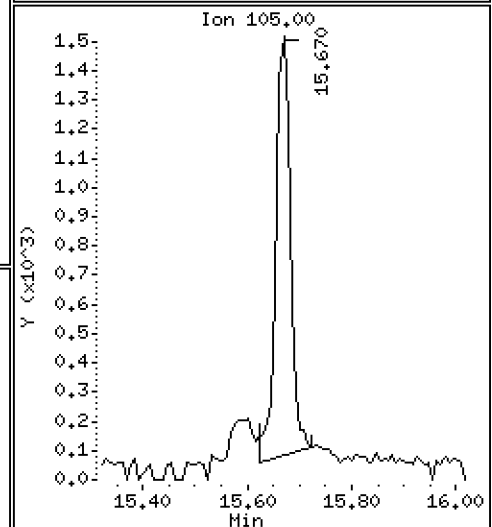
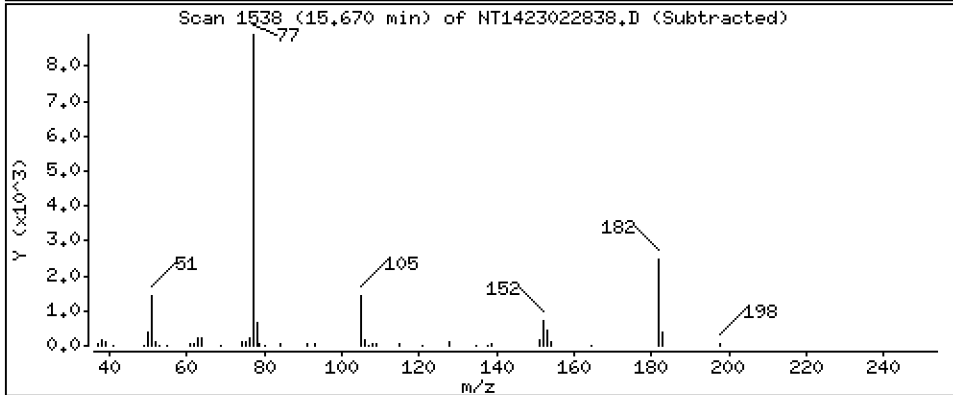
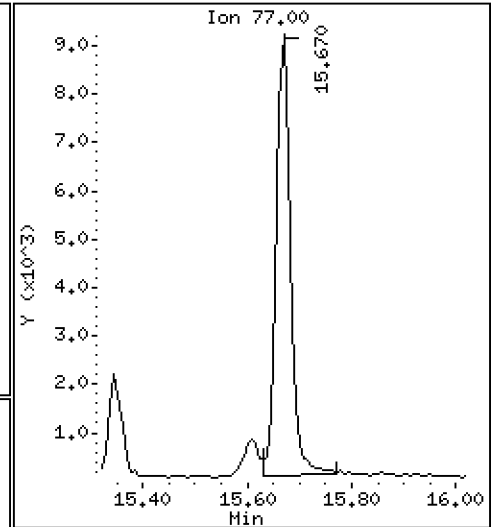
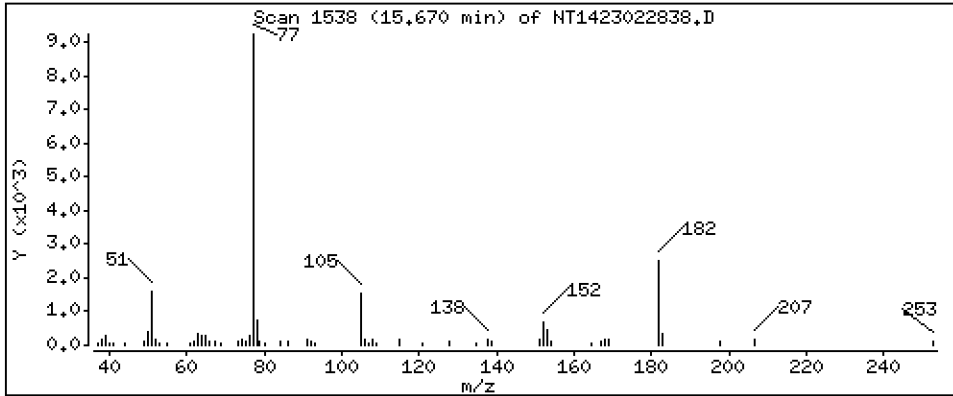
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 0,2134 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

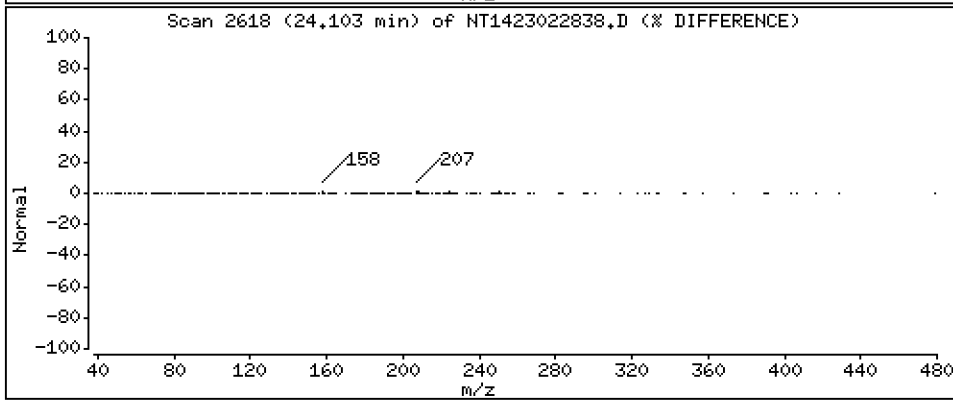
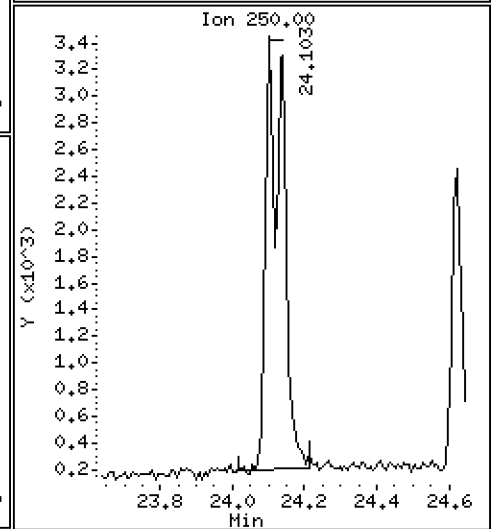
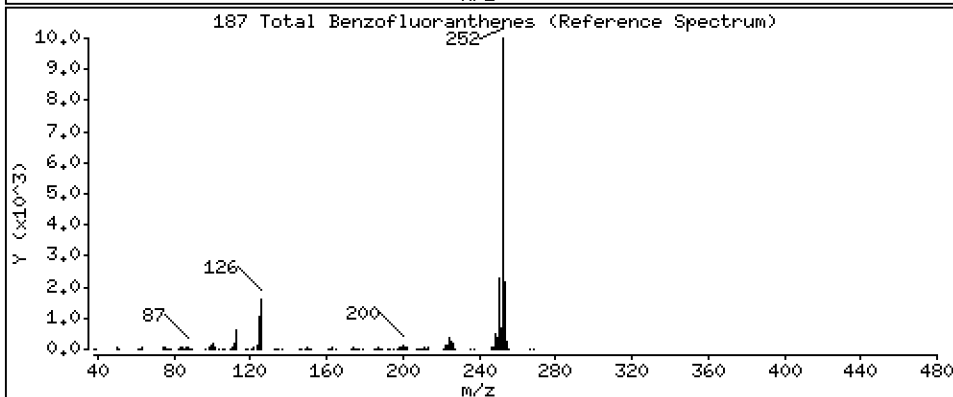
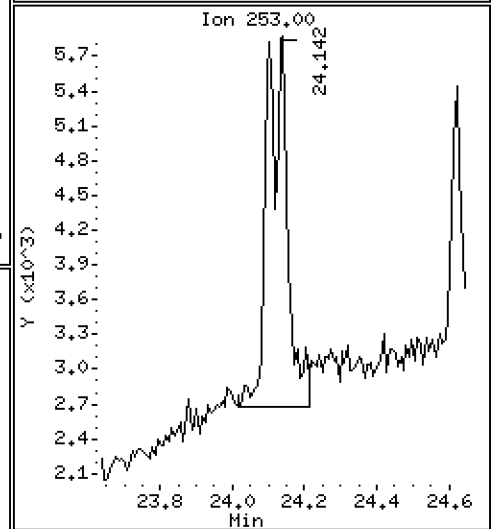
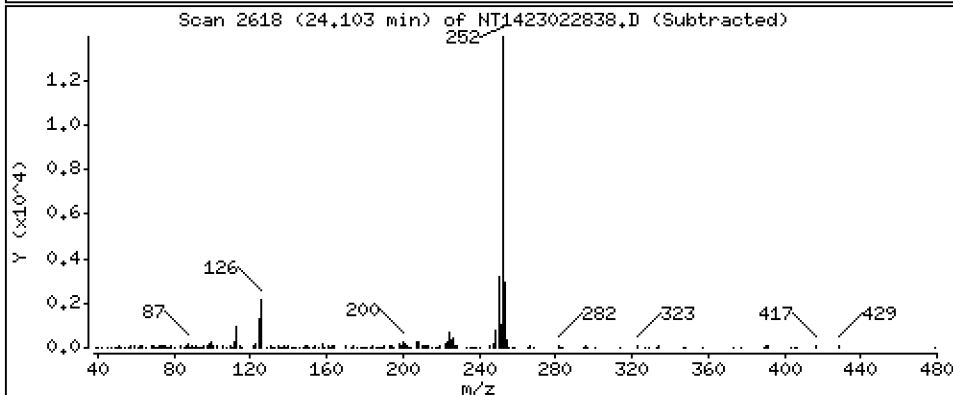
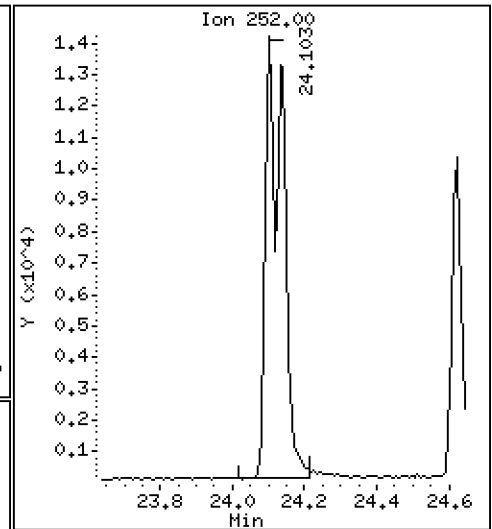
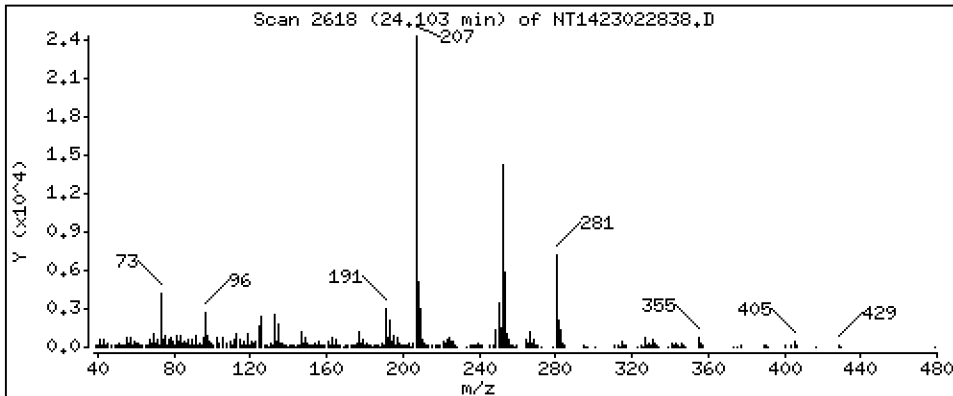
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 0,4714 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

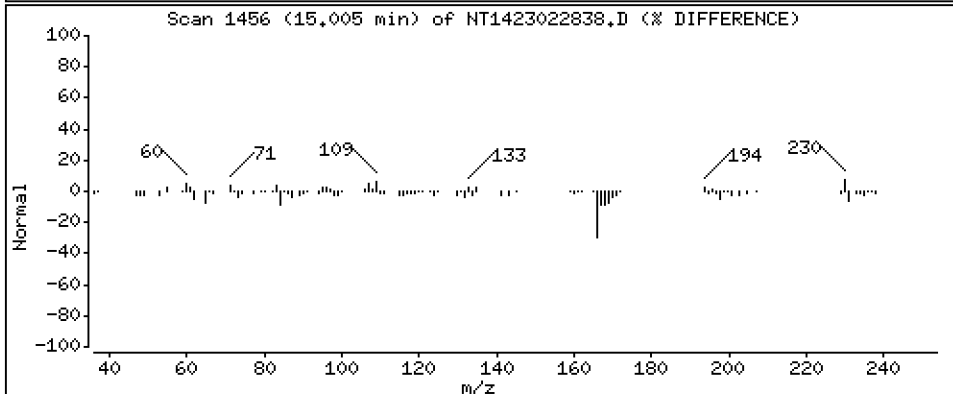
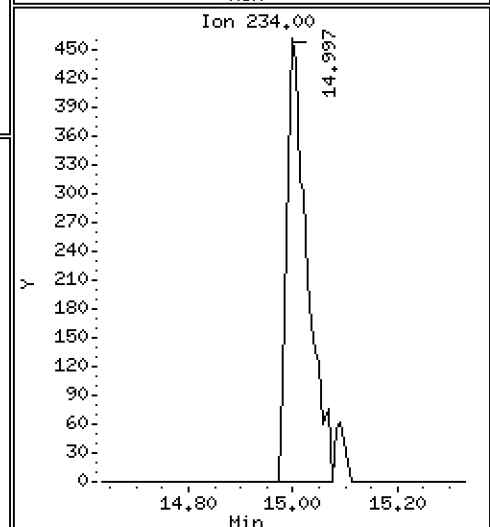
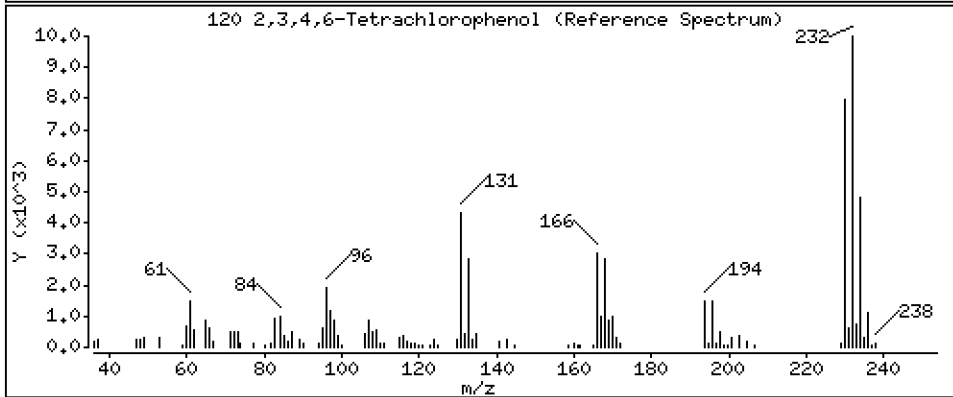
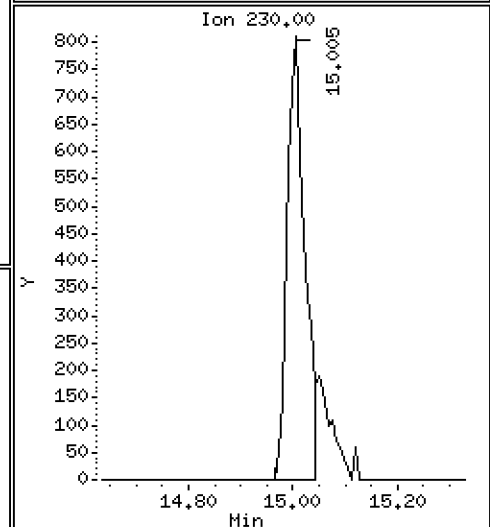
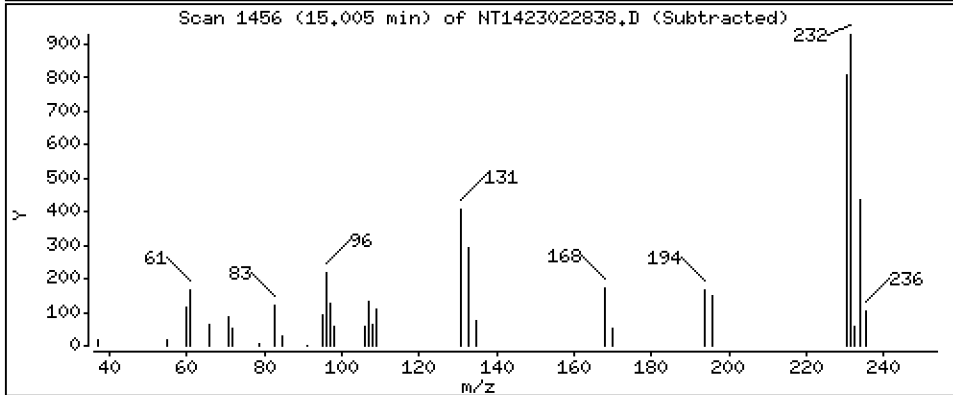
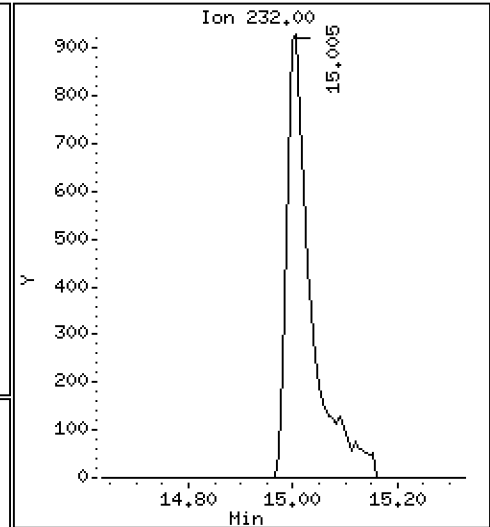
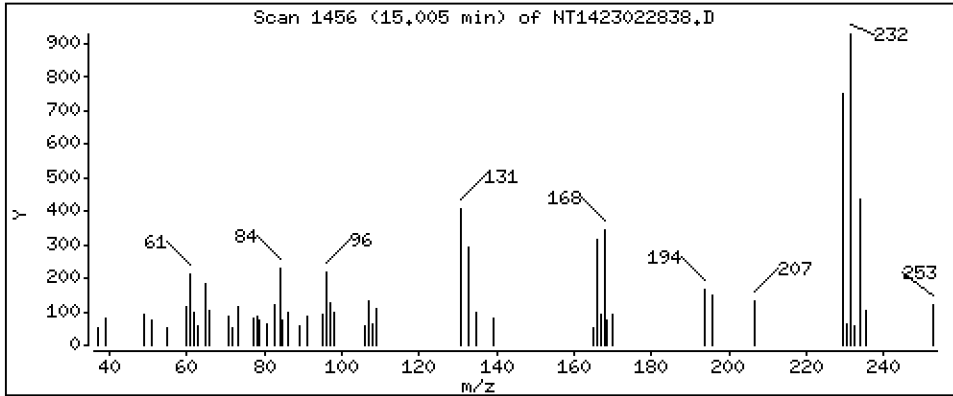
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

120 2,3,4,6-Tetrachlorophenol

Concentration: 0,1181 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230228.b\NT1423022838.D
 Lab Smp Id: SLB0374-LCV3
 Inj Date : 01-MAR-2023 23:52 MS Autotune Date: 17-MAY-2011 01:22
 Operator : JGR Inst ID: nt14.i
 Smp Info : SLB0374-LCV3
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt14.i\20230228.b\ABN.m
 Meth Date : 14-Mar-2023 08:52 van Quant Type: ISTD
 Cal Date : 28-FEB-2023 15:16 Cal File: NT1423022808.D
 Als bottle: 8
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: ICAL.sub
 Target Version: 4.14
 Processing Host: VANS-201906

| Compounds | QUANT | SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|---------------------------------|-------|-----|--------|--------|---------|----------|----------------|-------------|
| | | | | | | | ON-COLUMN | FINAL |
| | MASS | | | | | | (ug/mL) | (ug/mL) |
| \$ 1 2-Fluorophenol | 112 | | 6.073 | 6.050 | (0.741) | 9535 | 0.30742 | 0.3074 (M) |
| \$ 2 Phenol-d5 | 99 | | 7.657 | 7.642 | (0.934) | 12468 | 0.28313 | 0.2831 (M) |
| 3 Phenol | 94 | | 7.680 | 7.665 | (0.937) | 12239 | 0.23294 | 0.2329 (M) |
| \$ 5 2-Chlorophenol-d4 | 132 | | 7.858 | 7.850 | (0.958) | 10432 | 0.27860 | 0.2786 |
| 4 Bis(2-Chloroethyl)ether | 93 | | 7.781 | 7.781 | (0.949) | 8271 | 0.22291 | 0.2229 |
| 6 2-Chlorophenol | 128 | | 7.889 | 7.881 | (0.962) | 7013 | 0.18121 | 0.1812 |
| 7 1,3-Dichlorobenzene | 146 | | 8.129 | 8.129 | (0.991) | 8928 | 0.20933 | 0.2093 |
| * 8 1,4-Dichlorobenzene-d4 | 152 | | 8.199 | 8.199 | (1.000) | 114387 | 4.00000 | |
| 9 1,4-Dichlorobenzene | 146 | | 8.222 | 8.230 | (1.003) | 9015 | 0.21386 | 0.2139 |
| \$ 10 1,2-Dichlorobenzene-d4 | 152 | | 8.556 | 8.548 | (1.044) | 5408 | 0.19184 | 0.1918 |
| 12 1,2-Dichlorobenzene | 146 | | 8.579 | 8.571 | (1.046) | 8611 | 0.21304 | 0.2130 |
| 11 Benzyl alcohol | 108 | | 8.633 | 8.509 | (1.053) | 2158 | 0.09424 | 0.09424 (M) |
| 14 2,2'-oxybis(1-Chloropropane) | 121 | | 8.796 | 8.789 | (1.073) | 2290 | 0.21008 | 0.2101 |
| 13 2-Methylphenol | 108 | | 8.765 | 8.750 | (1.069) | 5703 | 0.17181 | 0.1718 |
| 17 Hexachloroethane | 117 | | 9.153 | 9.154 | (1.116) | 2329 | 0.14712 | 0.1471 |
| 16 N-Nitroso-di-n-propylamine | 70 | | 9.053 | 9.053 | (1.104) | 5267 | 0.20840 | 0.2084 |
| 15 4-Methylphenol | 108 | | 9.053 | 9.022 | (1.104) | 4329 | 0.11189 | 0.1119 |
| \$ 18 Nitrobenzene-d5 | 82 | | 9.293 | 9.285 | (0.873) | 7709 | 0.19460 | 0.1946 |
| 19 Nitrobenzene | 77 | | 9.332 | 9.324 | (0.876) | 7609 | 0.19988 | 0.1999 |
| 20 Isophorone | 82 | | 9.774 | 9.774 | (0.918) | 9393 | 0.15785 | 0.1578 |
| 21 2-Nitrophenol | 139 | | 9.960 | 9.945 | (0.935) | 3047 | 0.15467 | 0.1547 (M) |
| 22 2,4-Dimethylphenol | 107 | | 10.054 | 10.046 | (0.944) | 13974 | 0.40266 | 0.4027 |
| 23 Bis(2-Chloroethoxy)methane | 93 | | 10.232 | 10.224 | (0.961) | 7016 | 0.18332 | 0.1833 |
| 24 Benzoic acid | 105 | | 11.360 | 10.364 | (1.067) | 1124 | 0.08173 | 0.08173 (M) |
| 25 2,4-Dichlorophenol | 162 | | 10.433 | 10.410 | (0.980) | 11246 | 0.31939 | 0.3194 (M) |
| 26 1,2,4-Trichlorobenzene | 180 | | 10.572 | 10.572 | (0.993) | 7820 | 0.19938 | 0.1994 |
| * 27 Naphthalene-d8 | 136 | | 10.649 | 10.649 | (1.000) | 404965 | 4.00000 | |
| 28 Naphthalene | 128 | | 10.688 | 10.688 | (1.004) | 23285 | 0.21556 | 0.2156 |
| 29 4-Chloroaniline | 127 | | 10.873 | 10.850 | (1.021) | 16061 | 0.34762 | 0.3476 (M) |
| 30 Hexachlorobutadiene | 225 | | 11.066 | 11.066 | (1.039) | 4255 | 0.17779 | 0.1778 |
| 31 4-Chloro-3-methylphenol | 107 | | 11.871 | 11.848 | (1.115) | 10175 | 0.32573 | 0.3257 (M) |
| 32 2-Methylnaphthalene | 142 | | 12.080 | 12.080 | (1.134) | 15399 | 0.19251 | 0.1925 |
| 33 Hexachlorocyclopentadiene | 237 | | 12.320 | 12.545 | (0.866) | 68 | 0.00285 | 0.002849 |

| Compounds | QUANT SIG | | | | | CONCENTRATIONS | | |
|-----------------------------------|-----------|------------------------|--------|---------|----------|----------------------|------------------|--|
| | MASS | RT | EXP RT | REL RT | RESPONSE | ON-COLUMN (ug/mL) | FINAL (ug/mL) | |
| 34 2,4,6-Trichlorophenol | 196 | 12.730 | 12.723 | (0.895) | 7025 | 0.31610 | 0.3161 | |
| 35 2,4,5-Trichlorophenol | 196 | 12.831 | 12.800 | (0.902) | 8318 | 0.34616 | 0.3462 (M) | |
| § 36 2-Fluorobiphenyl | 172 | 12.877 | 12.877 | (0.905) | 18353 | 0.20726 | 0.2073 | |
| 37 2-Chloronaphthalene | 162 | 13.063 | 13.063 | (0.918) | 13983 | 0.19699 | 0.1970 | |
| 38 2-Nitroaniline | 65 | 13.373 | 13.349 | (0.940) | 6124 | 0.33079 | 0.3308 | |
| 39 Dimethylphthalate | 163 | 13.798 | 13.798 | (0.970) | 14994 | 0.20953 | 0.2095 | |
| 40 Acenaphthylene | 152 | 13.922 | 13.922 | (0.978) | 22974 | 0.22057 | 0.2206 | |
| 41 2,6-Dinitrotoluene | 165 | 13.930 | 13.930 | (0.979) | 6086 | 0.36293 | 0.3629 | |
| * 42 Acenaphthene-d10 | 164 | 14.232 | 14.239 | (1.000) | 227510 | 4.00000 | | |
| 43 3-Nitroaniline | 138 | 14.247 | 14.208 | (1.001) | 5035 | 0.29295 | 0.2929 (M) | |
| 44 Acenaphthene | 153 | 14.301 | 14.301 | (1.005) | 14164 | 0.21239 | 0.2124 | |
| 45 2,4-Dinitrophenol | 184 | Compound Not Detected. | | | | | | |
| 46 Dibenzofuran | 168 | 14.634 | 14.634 | (1.028) | 21018 | 0.19807 | 0.1981 | |
| 47 4-Nitrophenol | 109 | 14.842 | 14.587 | (1.043) | 1763 | 0.20771 | 0.2077 (M) | |
| 48 2,4-Dinitrotoluene | 165 | 14.734 | 14.726 | (1.035) | 6423 | 0.26606 | 0.2661 | |
| 50 Diethylphthalate | 149 | 15.244 | 15.252 | (1.071) | 14200 | 0.21220 | 0.2122 | |
| 49 Fluorene | 166 | 15.337 | 15.337 | (1.078) | 19025 | 0.21279 | 0.2128 | |
| 51 4-Chlorophenyl-phenylether | 204 | 15.345 | 15.345 | (1.078) | 9356 | 0.19668 | 0.1967 | |
| 52 4-Nitroaniline | 138 | 15.530 | 15.469 | (1.091) | 4597 | 0.26982 | 0.2698 (M) | |
| 53 4,6-Dinitro-2-methylphenol | 198 | 15.577 | 15.553 | (0.903) | 1931 | 0.13939 | 0.1394 (M) | |
| 54 N-Nitrosodiphenylamine | 169 | 15.607 | 15.607 | (0.905) | 11037 | 0.21070 | 0.2107 | |
| § 55 2,4,6-Tribromophenol | 330 | 15.877 | 15.870 | (1.116) | 2484 | 0.20332 | 0.2033 (M) | |
| 56 4-Bromophenyl-phenylether | 248 | 16.340 | 16.340 | (0.948) | 4483 | 0.19467 | 0.1947 | |
| 57 Hexachlorobenzene | 284 | 16.626 | 16.634 | (0.964) | 5394 | 0.21304 | 0.2130 | |
| 58 Pentachlorophenol | 266 | 17.044 | 17.005 | (0.988) | 1337 | 0.11229 | 0.1123 (M) | |
| * 59 Phenanthrene-d10 | 188 | 17.245 | 17.245 | (1.000) | 416834 | 4.00000 | | |
| 60 Phenanthrene | 178 | 17.291 | 17.291 | (1.003) | 22224 | 0.20042 | 0.2004 | |
| 61 Anthracene | 178 | 17.384 | 17.384 | (1.008) | 21080 | 0.20109 | 0.2011 | |
| 62 Carbazole | 167 | 17.748 | 17.732 | (1.029) | 16859 | 0.18350 | 0.1835 | |
| 63 Di-n-butylphthalate | 149 | 18.591 | 18.591 | (1.078) | 21721 | 0.18302 | 0.1830 | |
| 64 Fluoranthene | 202 | 19.713 | 19.713 | (0.882) | 23739 | 0.18367 | 0.1837 | |
| 65 Pyrene | 202 | 20.139 | 20.139 | (0.901) | 25001 | 0.18347 | 0.1835 | |
| § 66 Terphenyl-d14 | 244 | 20.471 | 20.471 | (0.916) | 18974 | 0.18084 | 0.1808 | |
| 67 Butylbenzylphthalate | 149 | 21.439 | 21.439 | (0.959) | 9570 | 0.19839 | 0.1984 | |
| 68 Benzo(a)anthracene | 228 | 22.337 | 22.337 | (0.999) | 25252 | 0.22128 | 0.2213 | |
| * 69 Chrysene-d12 | 240 | 22.361 | 22.368 | (1.000) | 340670 | 4.00000 | | |
| 70 3,3'-Dichlorobenzidine | 252 | 22.330 | 22.330 | (0.999) | 23445 | 0.71941 | 0.7194 | |
| 71 Chrysene | 228 | 22.407 | 22.415 | (1.002) | 23584 | 0.21501 | 0.2150 | |
| 72 bis(2-Ethylhexyl)phthalate | 149 | 22.492 | 22.492 | (0.958) | 13105 | 0.17691 | 0.1769 | |
| * 134 Di-n-octylphthalate-d4 | 153 | 23.468 | 23.476 | (1.000) | 485089 | 4.00000 | | |
| 73 Di-n-octylphthalate | 149 | 23.483 | 23.483 | (1.001) | 25909 | 0.20285 | 0.2029 | |
| 74 Benzo(b)fluoranthene | 252 | 24.103 | 24.103 | (0.976) | 23233 | 0.22278 | 0.2228 | |
| 75 Benzo(k)fluoranthene | 252 | 24.134 | 24.141 | (0.977) | 27728 | 0.24645 | 0.2464 | |
| 76 Benzo(a)pyrene | 252 | 24.621 | 24.621 | (0.997) | 19040 | 0.21280 | 0.2128 | |
| * 77 Perylene-d12 | 264 | 24.707 | 24.714 | (1.000) | 315652 | 4.00000 | | |
| 78 Indeno(1,2,3-cd)pyrene | 276 | 26.808 | 26.784 | (1.085) | 10163 | 0.09023 | 0.09023 | |
| 79 Dibenzo(a,h)anthracene | 278 | 26.823 | 26.800 | (1.086) | 9425 | 0.09853 | 0.09853 | |
| 80 Benzo(g,h,i)perylene | 276 | 27.406 | 27.383 | (1.109) | 7014 | 0.07140 | 0.07140 | |
| 90 N-Nitrosodimethylamine | 74 | 4.004 | 3.988 | (0.488) | 4536 | 0.19252 | 0.1925 | |
| 91 Aniline | 93 | 7.688 | 7.681 | (0.938) | 16293 | 0.29998 | 0.3000 | |
| 93 Benzidine | 184 | 20.030 | 19.992 | (0.896) | 15043 | 0.27208 | 0.2721 (M) | |
| 103 Pyridine | 79 | 4.089 | 3.988 | (0.499) | 7869 | 0.11320 | 0.1132 (M) | |
| 105 1-methylnaphthalene | 142 | 12.297 | 12.297 | (1.155) | 14333 | 0.19463 | 0.1946 | |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77 | 15.669 | 15.669 | (1.101) | 16398 | 0.21345 | 0.2134 | |

| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|-------------------------------|-----------|--------|--------|---------|----------|----------------------|------------------|
| | | | | | | ON-COLUMN (ug/mL) | FINAL (ug/mL) |
| 187 Total Benzofluoranthenes | 252 | 24.103 | 24.141 | (0.976) | 48086 | 0.47135 | 0.4714 |
| 120 2,3,4,6-Tetrachlorophenol | 232 | 15.005 | 14.981 | (1.054) | 3021 | 0.11806 | 0.1181 (M) |

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 01-MAR-2023
 Lab File ID: NT1423022838.D Calibration Time: 22:40
 Lab Smp Id: SLB0374-LCV3
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: JGR
 Method File: \\target\share\chem3\nt14.i\20230228.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|--------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 115350 | 57675 | 230700 | 114387 | -0.83 |
| 27 Naphthalene-d8 | 415895 | 207948 | 831790 | 404965 | -2.63 |
| 42 Acenaphthene-d10 | 246020 | 123010 | 492040 | 227510 | -7.52 |
| 59 Phenanthrene-d10 | 448598 | 224299 | 897196 | 416834 | -7.08 |
| 69 Chrysene-d12 | 373978 | 186989 | 747956 | 340670 | -8.91 |
| 134 Di-n-octylphthala | 541572 | 270786 | 1083144 | 485089 | -10.43 |
| 77 Perylene-d12 | 357819 | 178910 | 715638 | 315652 | -11.78 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 8.20 | 7.70 | 8.70 | 8.20 | -0.00 |
| 27 Naphthalene-d8 | 10.65 | 10.15 | 11.15 | 10.65 | -0.00 |
| 42 Acenaphthene-d10 | 14.24 | 13.74 | 14.74 | 14.23 | -0.05 |
| 59 Phenanthrene-d10 | 17.25 | 16.75 | 17.75 | 17.25 | -0.00 |
| 69 Chrysene-d12 | 22.37 | 21.87 | 22.87 | 22.36 | -0.03 |
| 134 Di-n-octylphthala | 23.48 | 22.98 | 23.98 | 23.47 | -0.03 |
| 77 Perylene-d12 | 24.71 | 24.21 | 25.21 | 24.71 | -0.03 |

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

REVIEW SUMMARY FOR FILE - NT1423022838.D

Lab ID: SLB0374-LCV3
nt14.i, ABN.m, 01-MAR-2023 23:52

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT | CCV RRT | DELTA | COMPOUND |
|-------|---------|---------|---------------------------|
| 1.053 | 1.038 | 0.0151 | Benzyl alcohol |
| 1.067 | 0.973 | 0.0936 | Benzoic acid |
| 0.866 | 0.881 | -0.0153 | Hexachlorocyclopentadiene |
| 1.043 | 1.024 | 0.0185 | 4-Nitrophenol |
| 0.499 | 0.486 | 0.0122 | Pyridine |

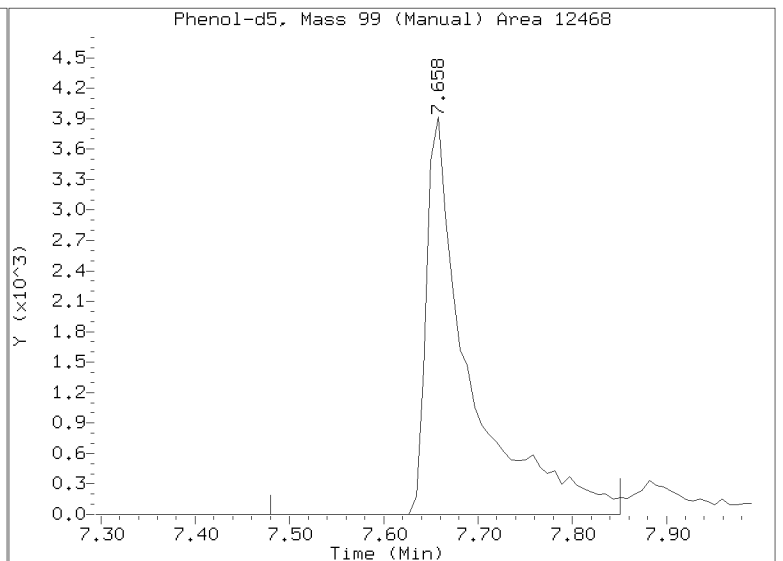
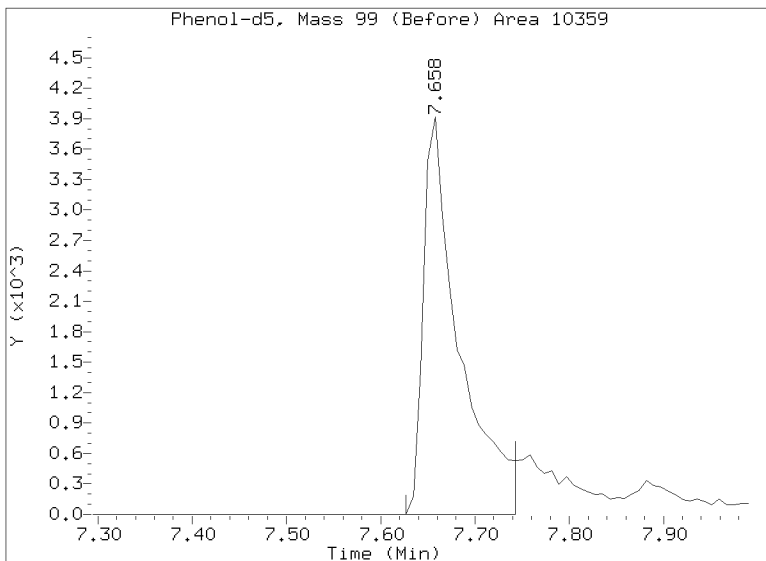
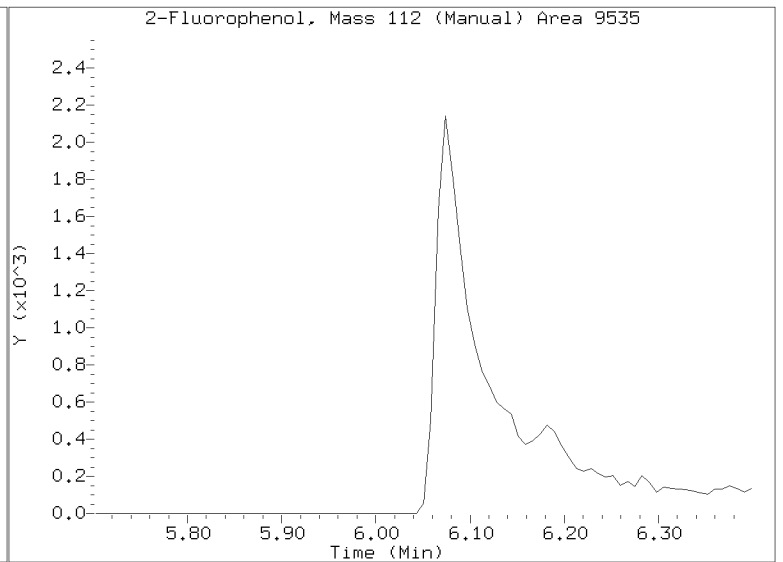
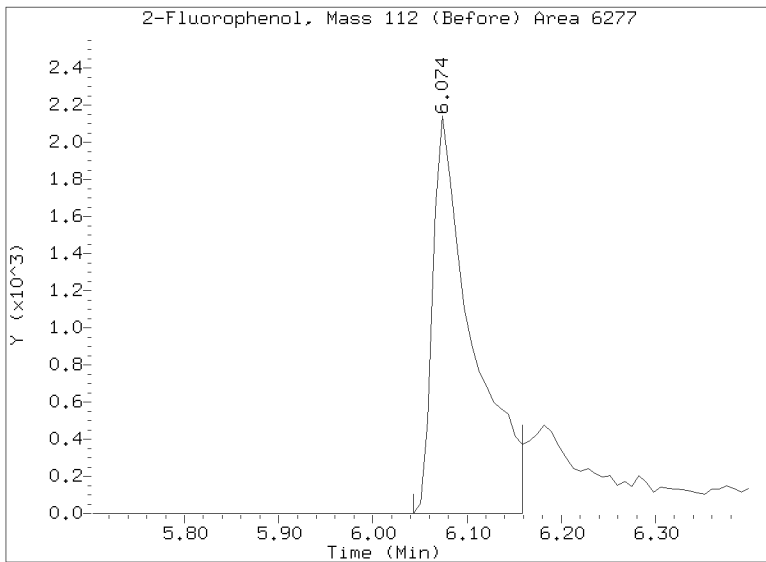
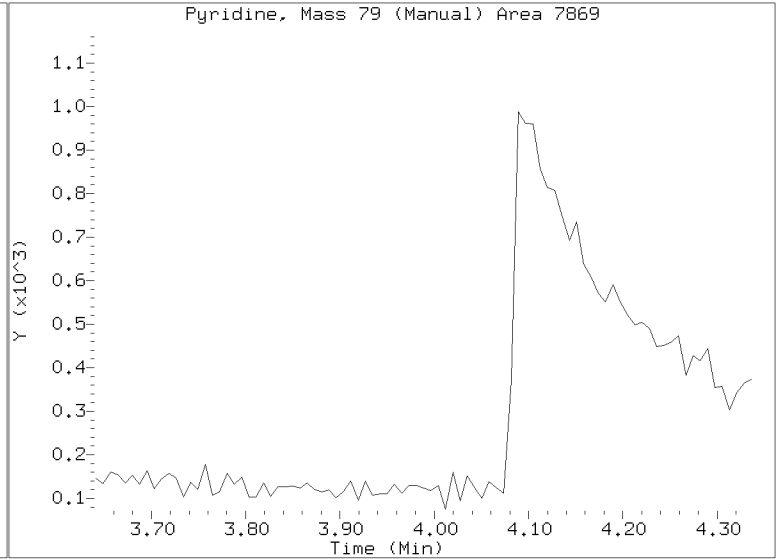
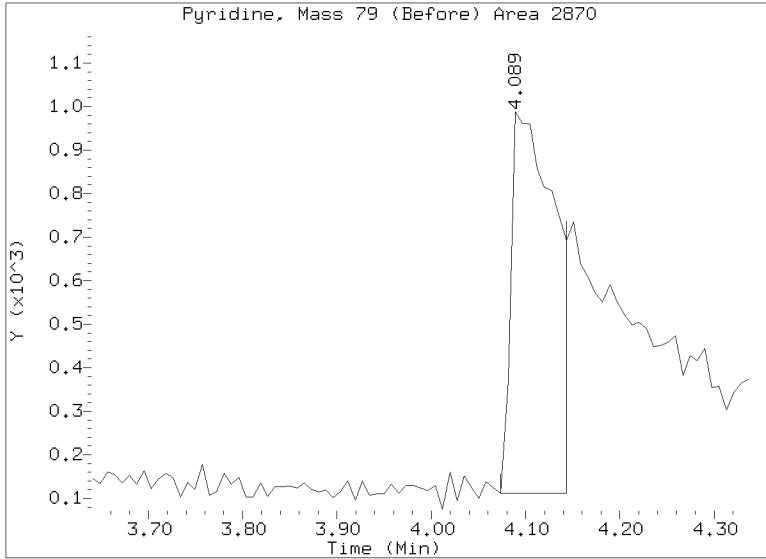
RRT check based on Ccal File: NT1423022836.D

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

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

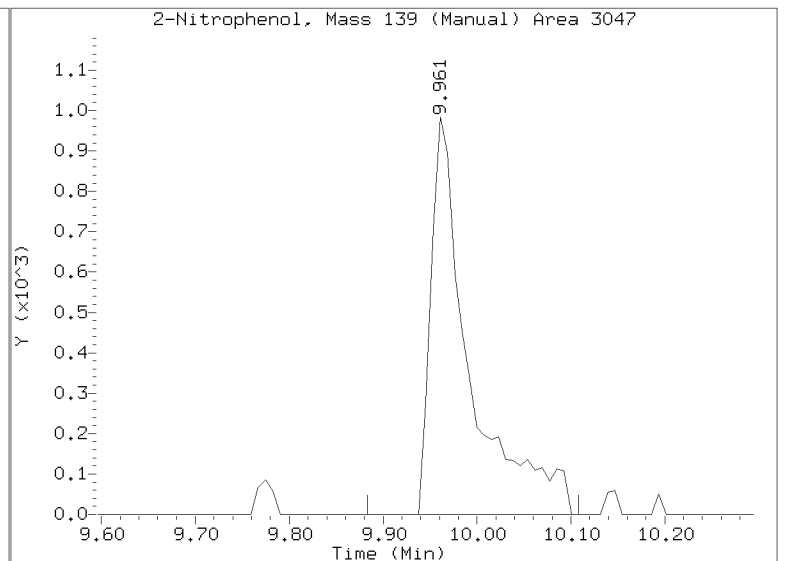
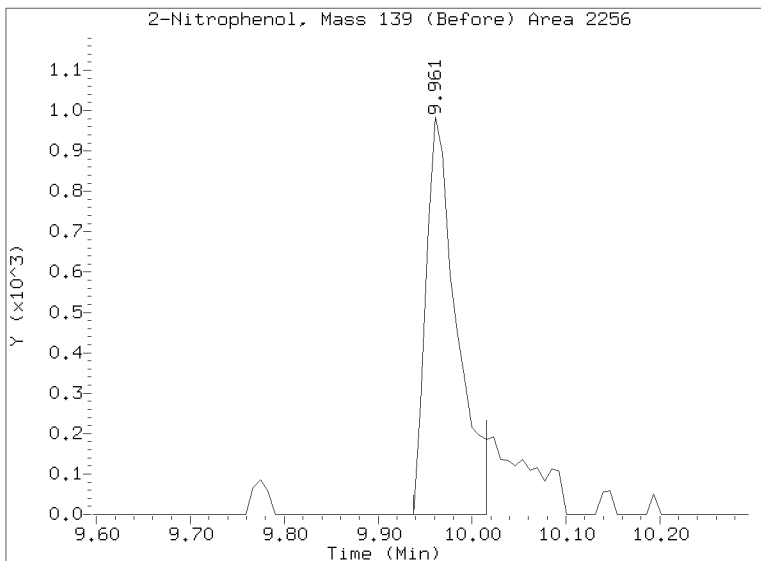
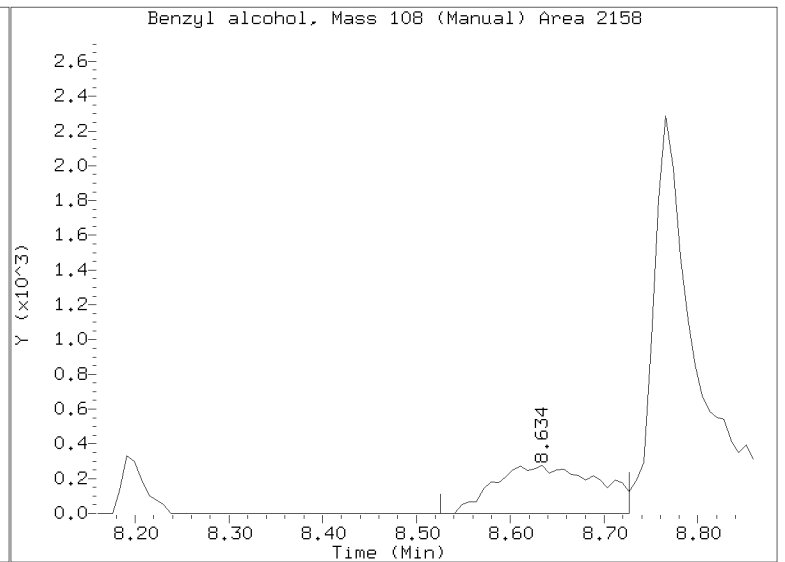
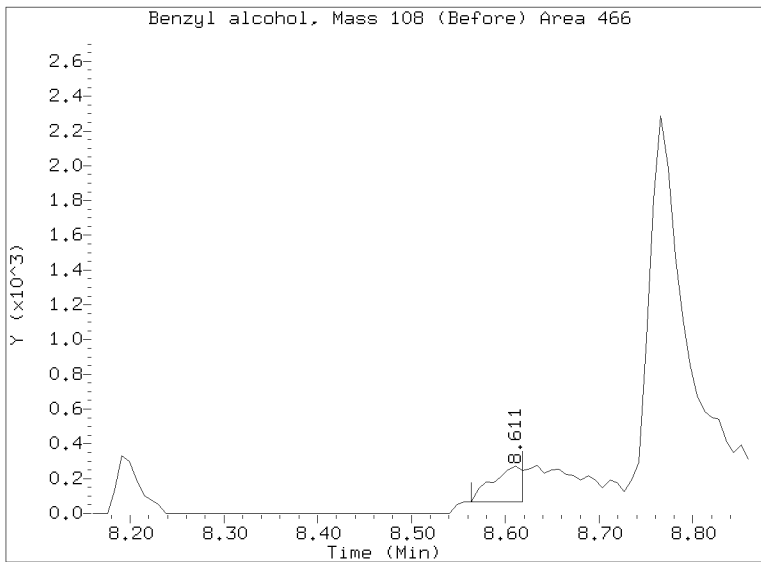
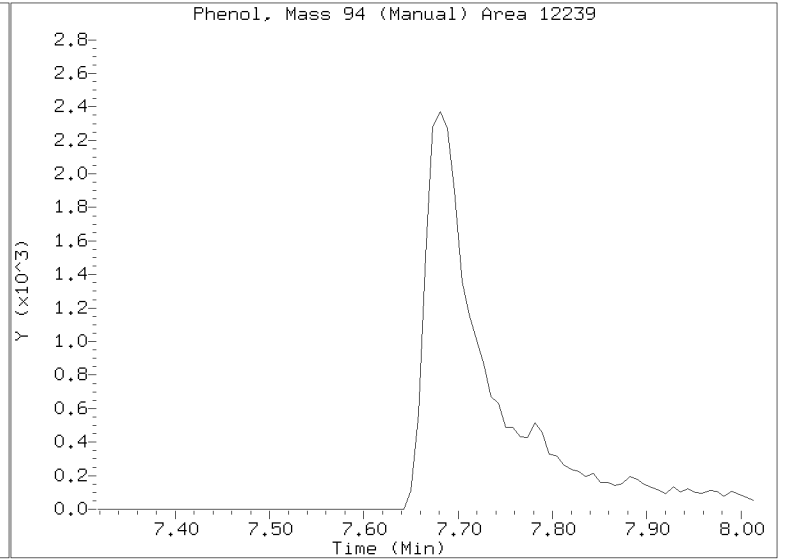
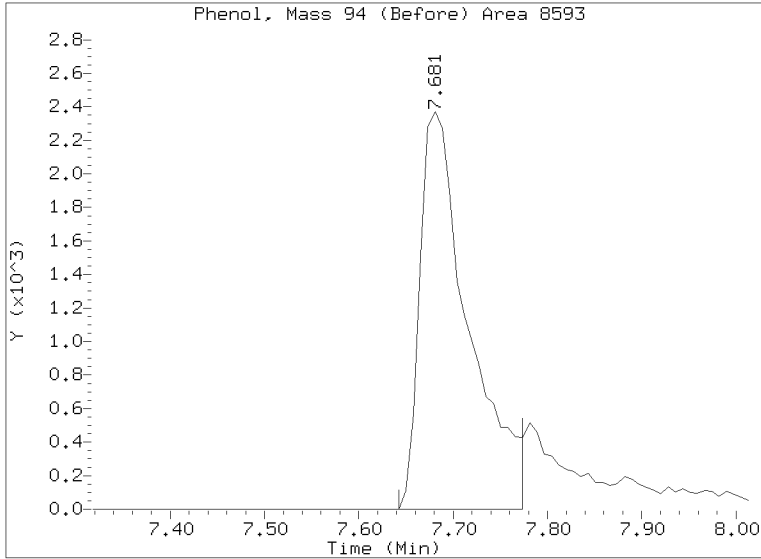
Quant Ion Manual Peak Adjustment Report

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Injection Date: 01-MAR-2023 23:52
Lab ID: SLB0374-LCV3 Client ID:
Report Date: 03/14/2023 08:52



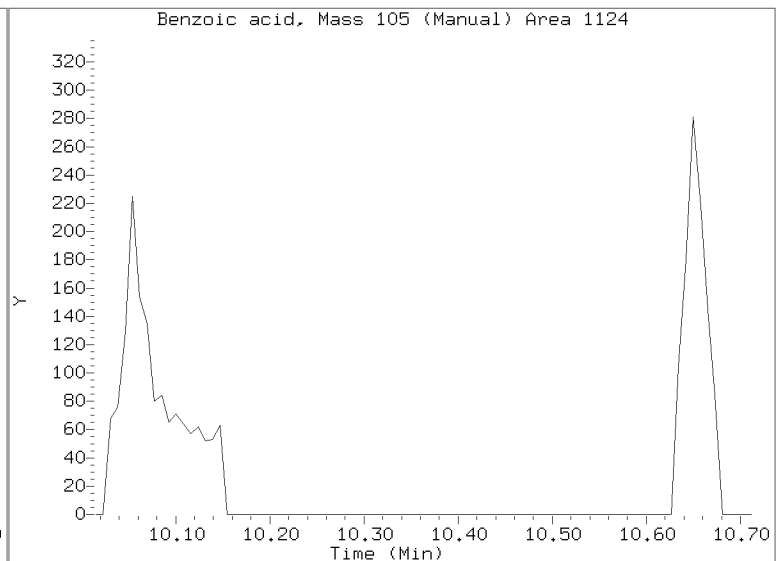
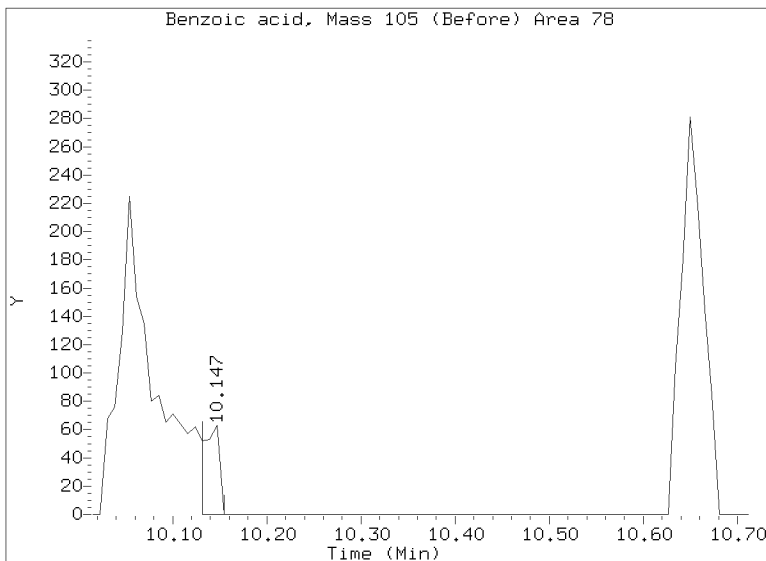
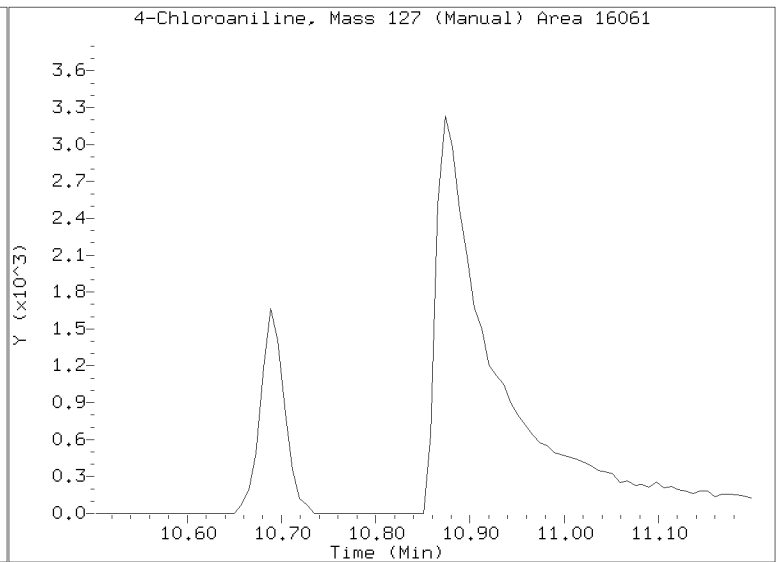
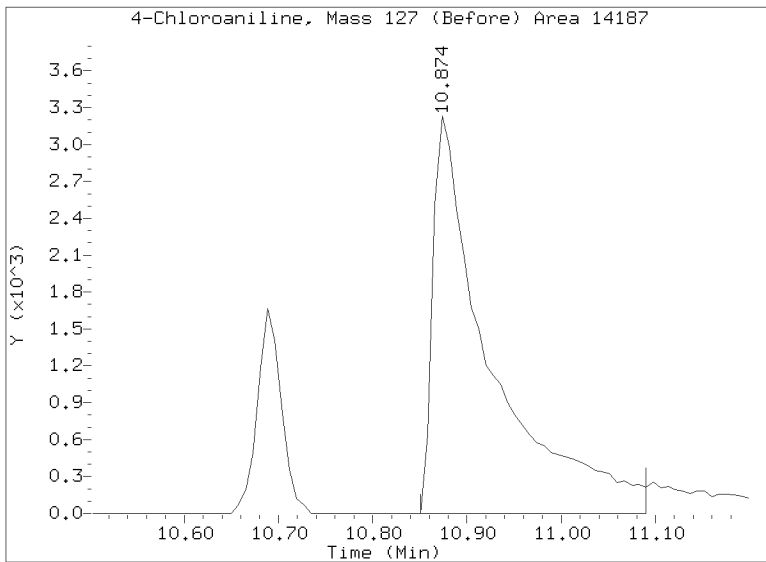
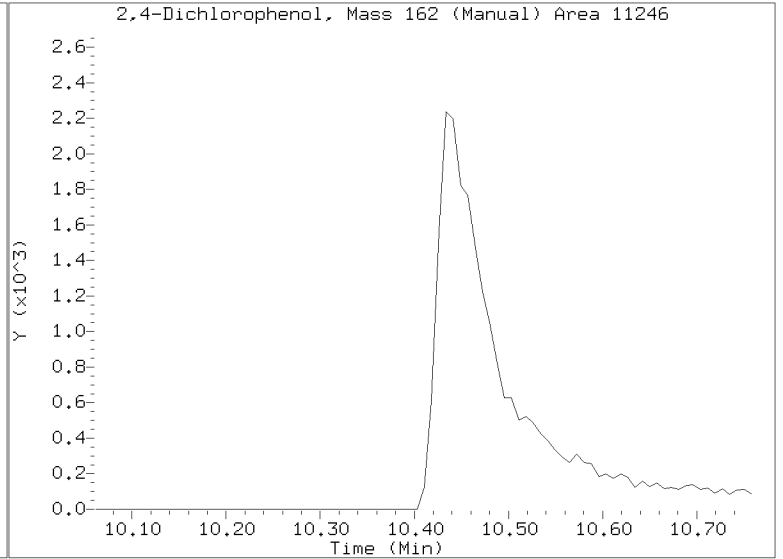
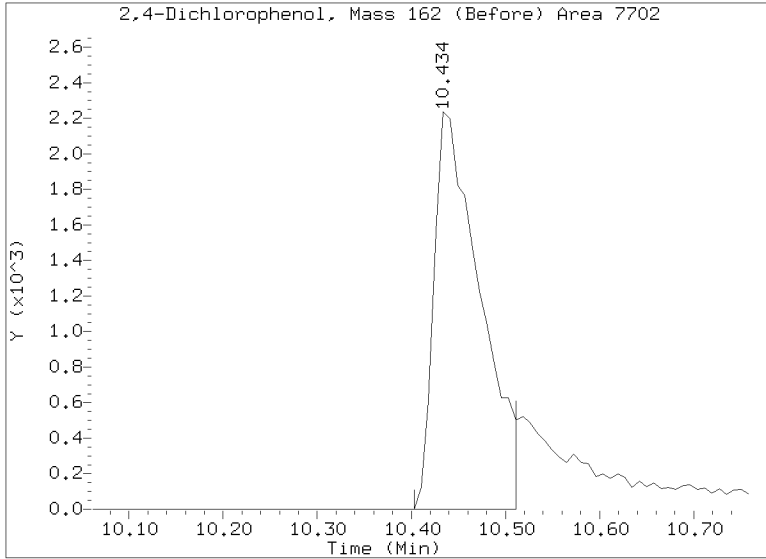
Quant Ion Manual Peak Adjustment Report

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Injection Date: 01-MAR-2023 23:52
Lab ID:SLB0374-LCV3 Client ID:
Report Date: 03/14/2023 08:52



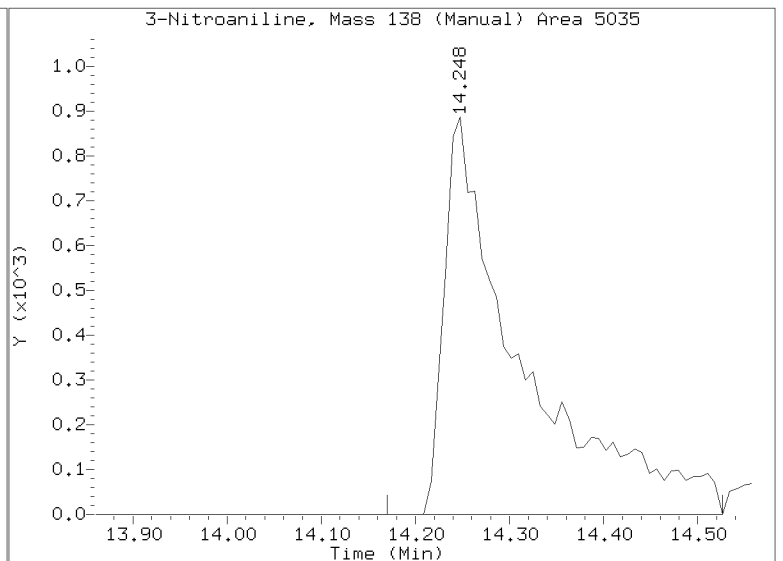
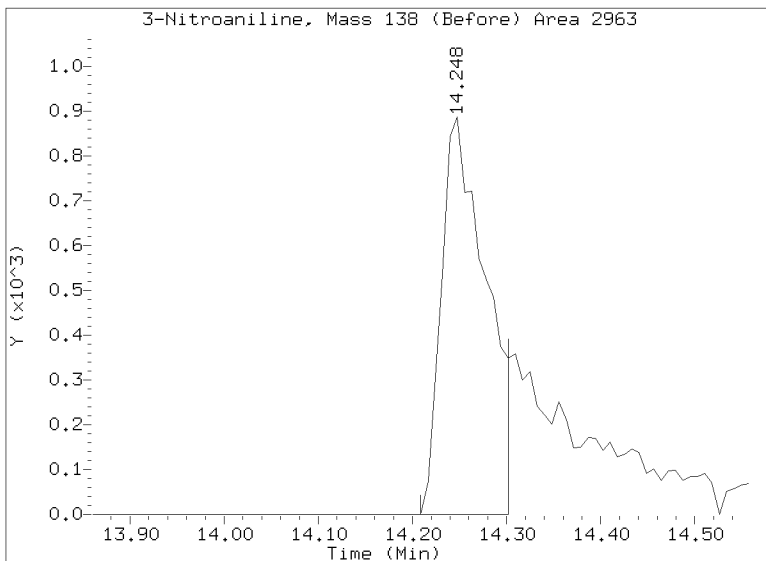
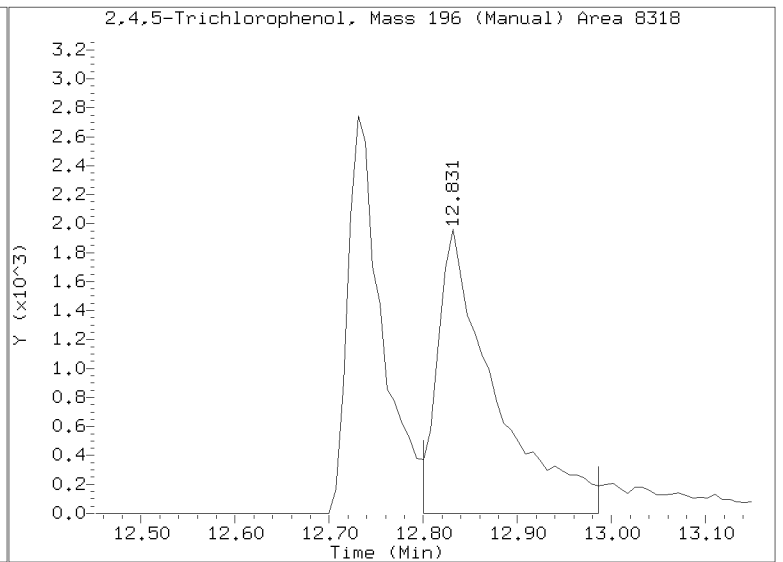
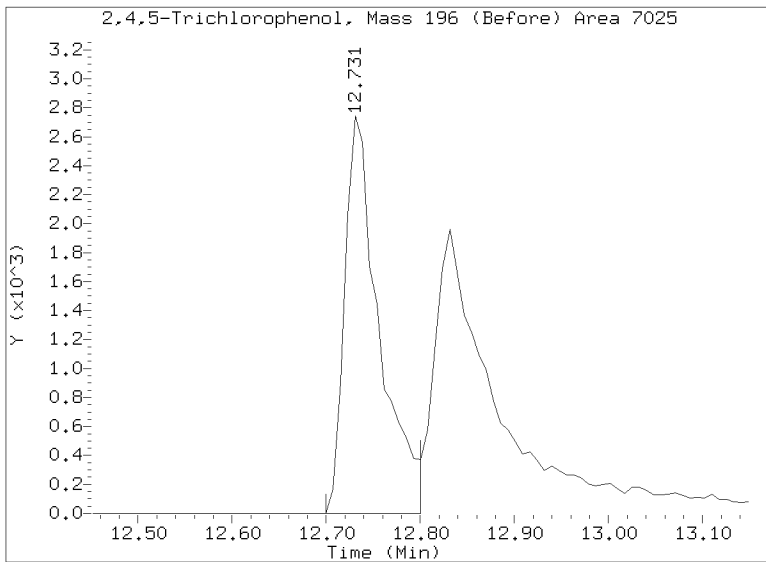
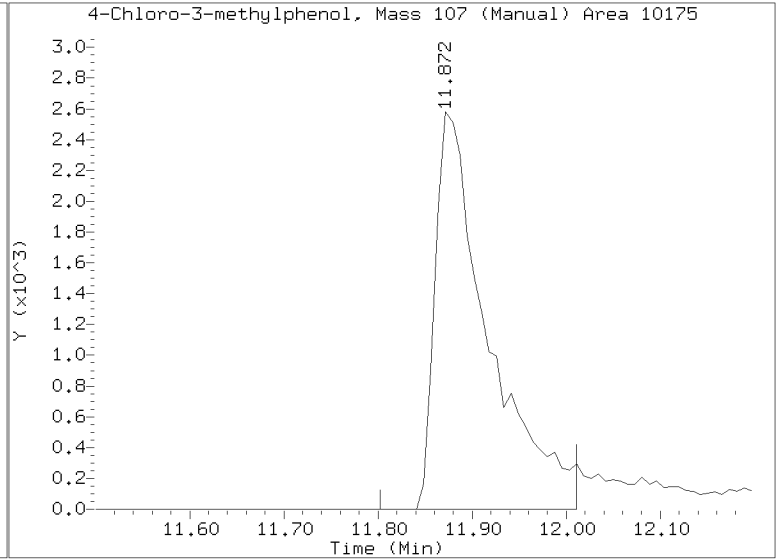
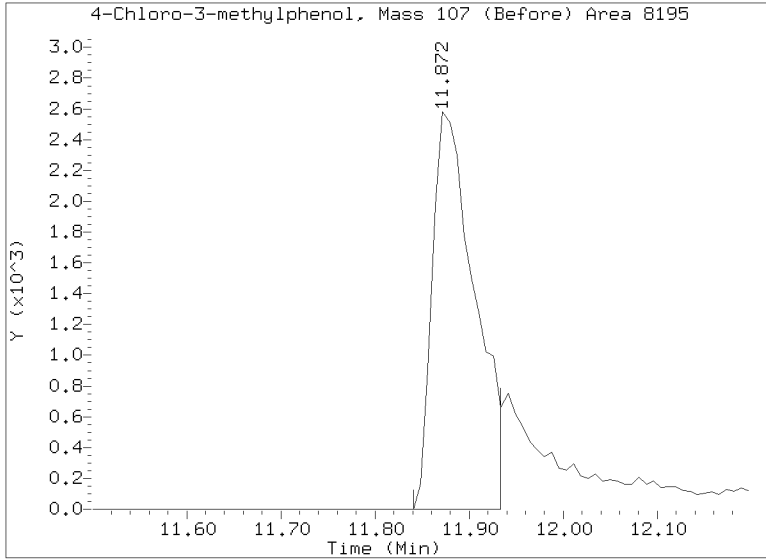
Quant Ion Manual Peak Adjustment Report

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Injection Date: 01-MAR-2023 23:52
Lab ID:SLB0374-LCV3 Client ID:
Report Date: 03/14/2023 08:52



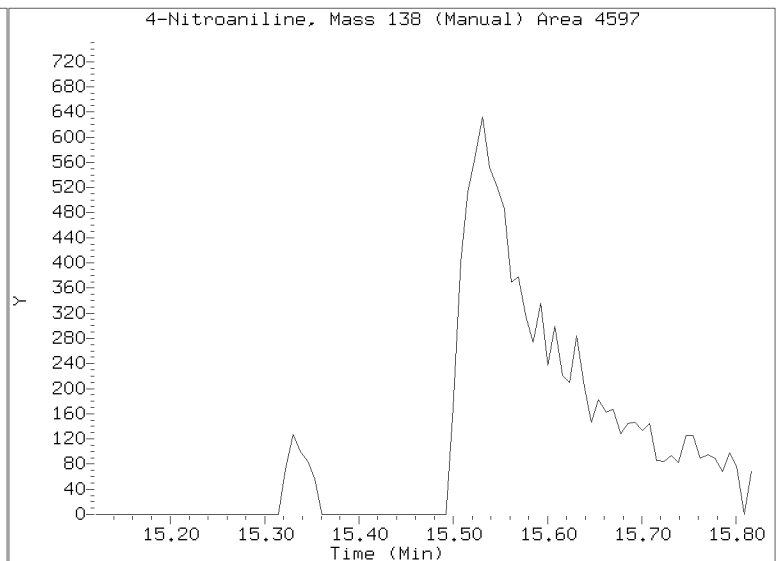
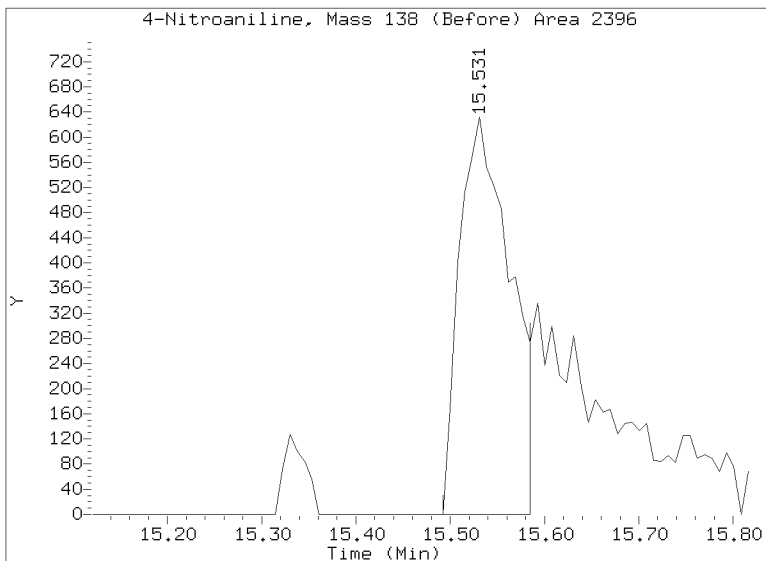
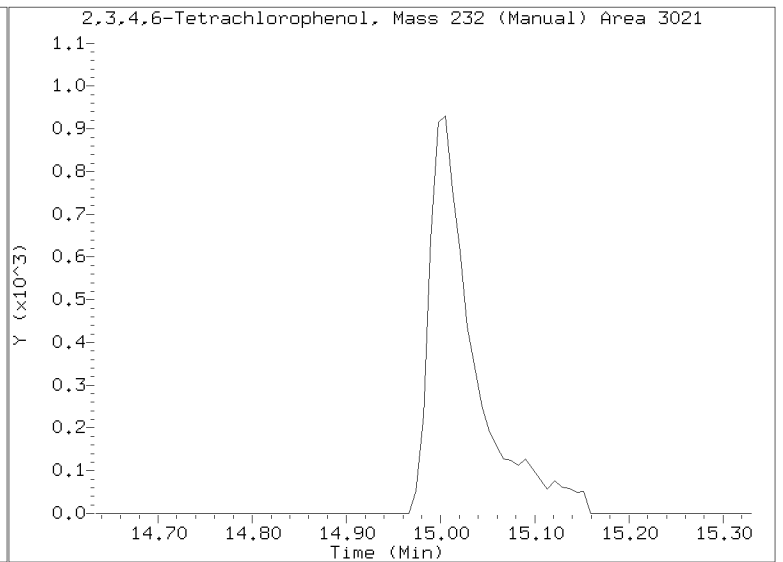
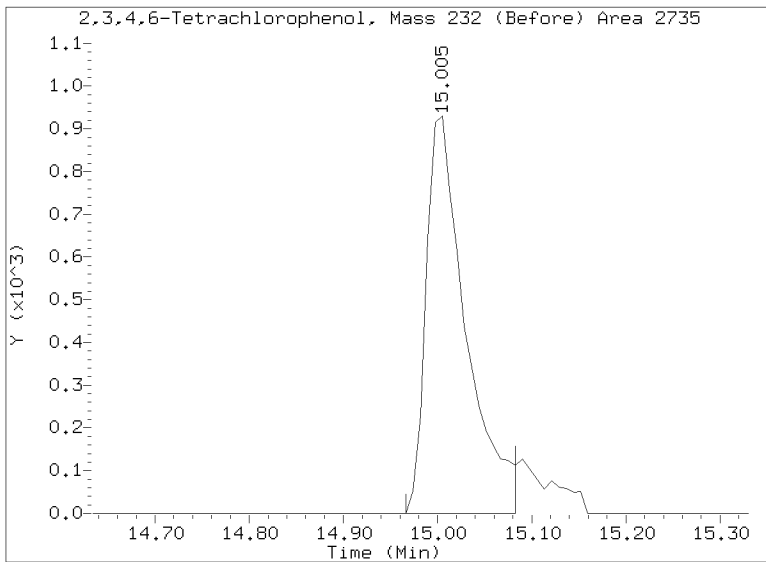
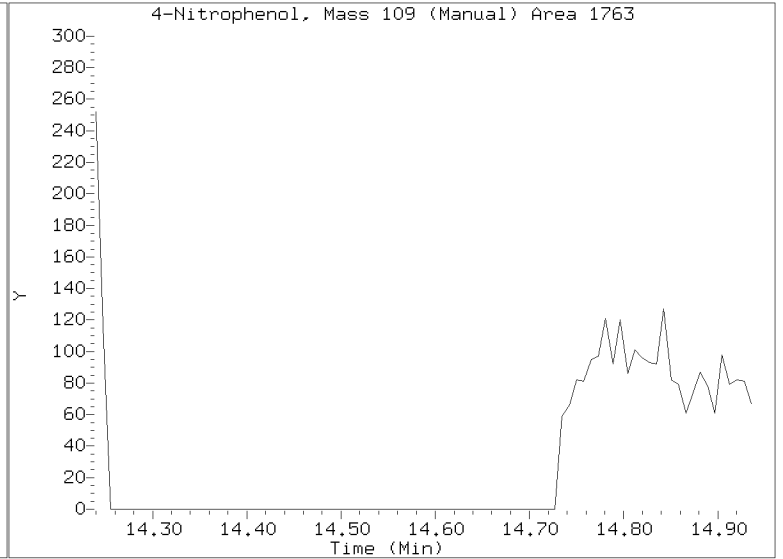
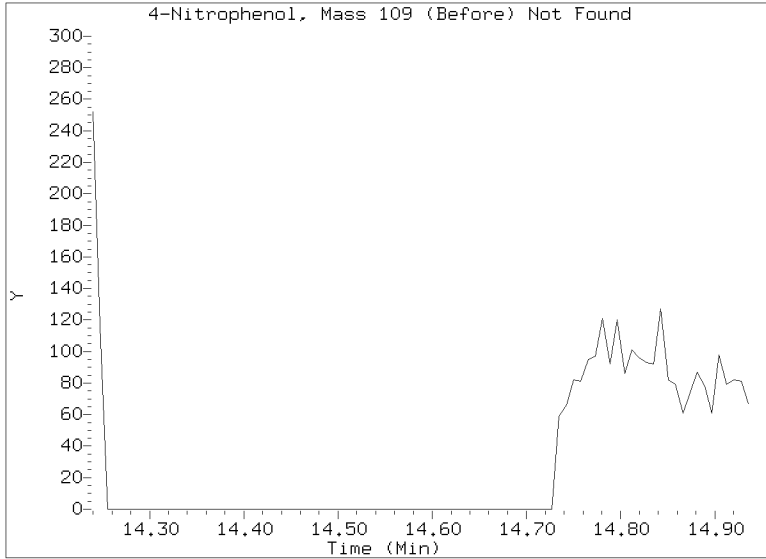
Quant Ion Manual Peak Adjustment Report

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Lab ID:SLB0374-LCV3 Client ID:
Report Date: 03/14/2023 08:52



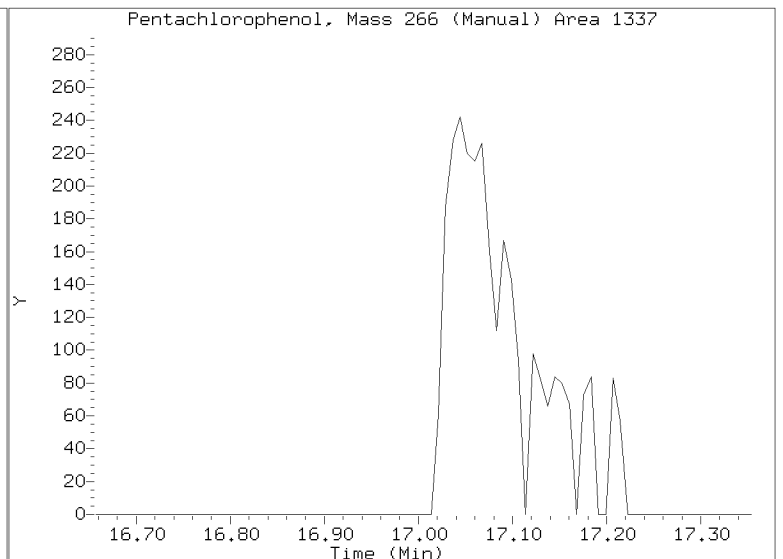
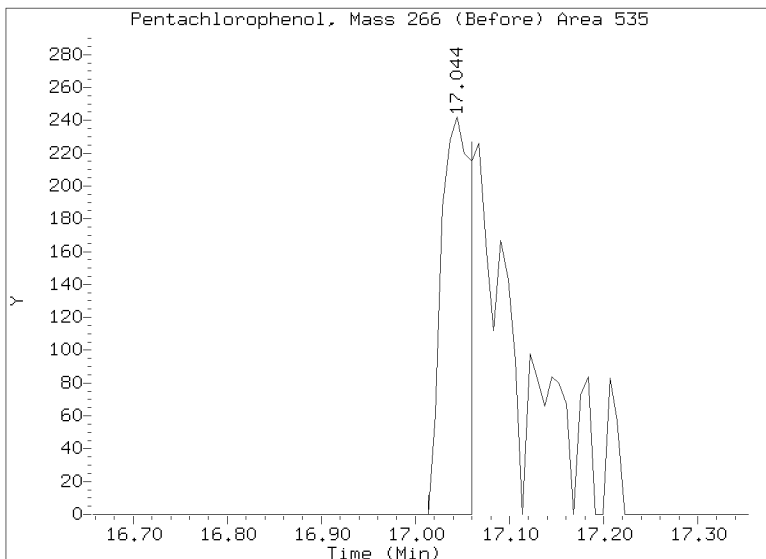
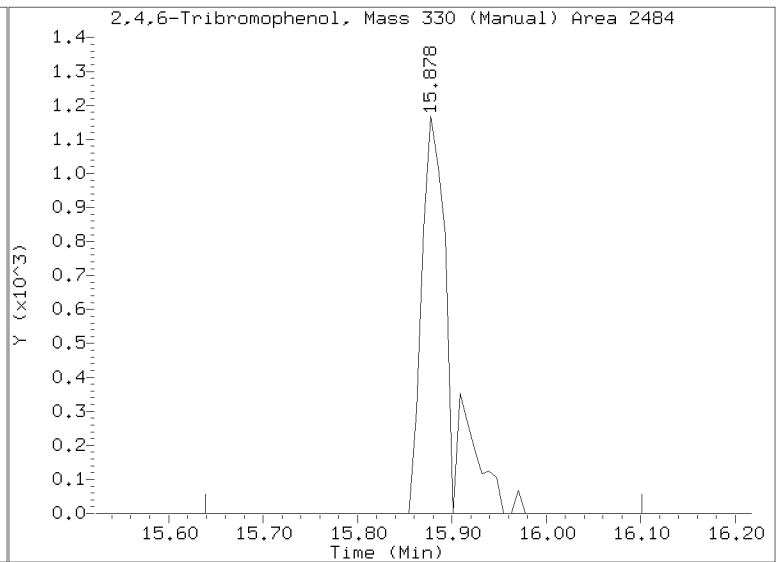
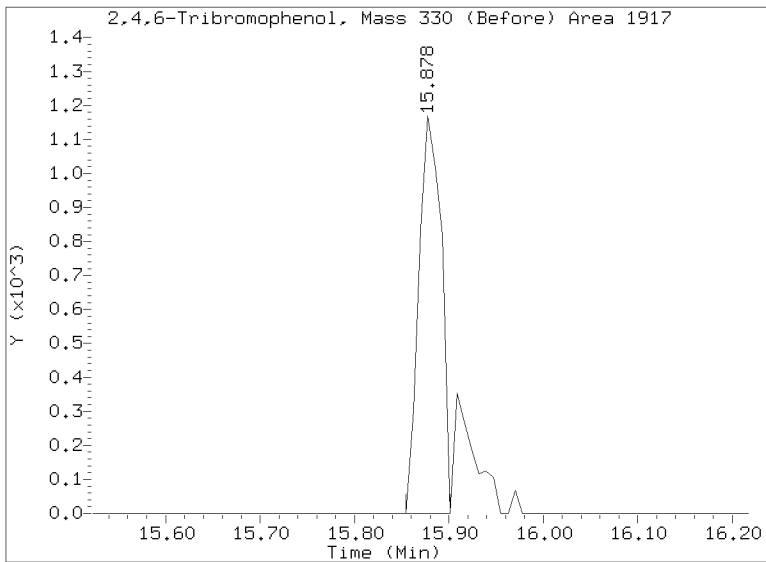
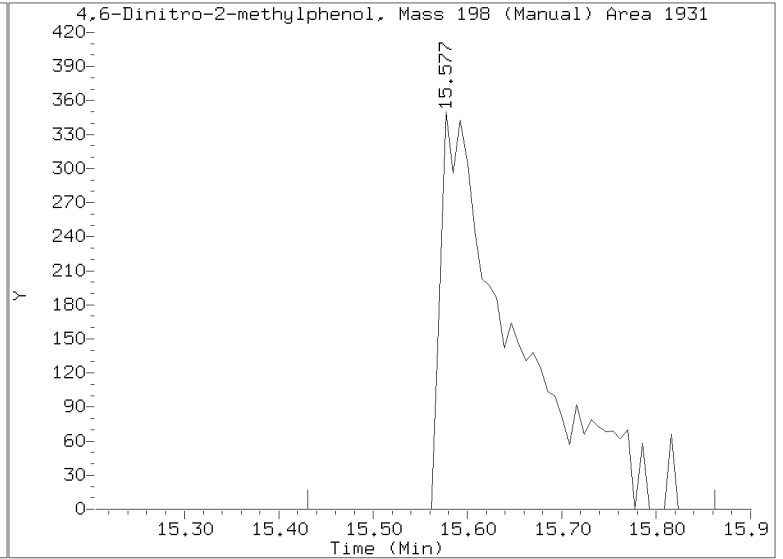
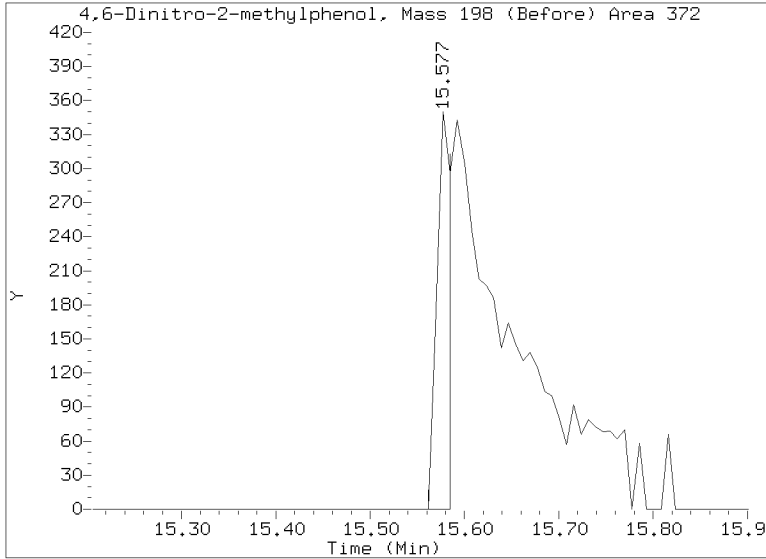
Quant Ion Manual Peak Adjustment Report

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Lab ID:SLB0374-LCV3 Client ID:
Report Date: 03/14/2023 08:52



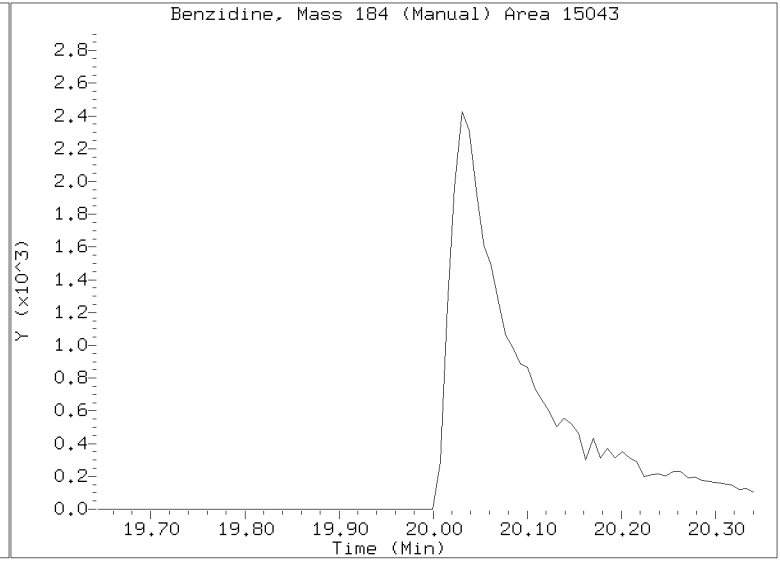
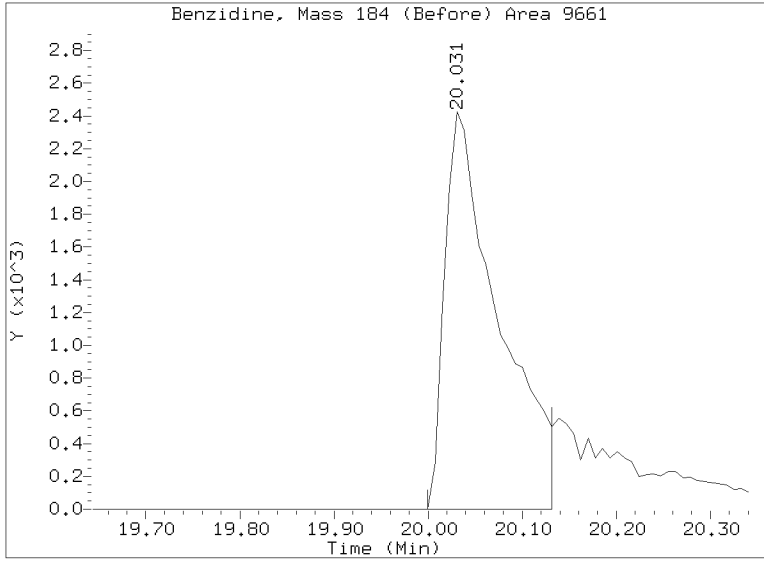
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230228.b/NT1423022838.D
Injection Date: 01-MAR-2023 23:52
Lab ID:SLB0374-LCV3 Client ID:
Report Date: 03/14/2023 08:52



Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230228.b/NT1423022838.D
Injection Date: 01-MAR-2023 23:52
Lab ID:SLB0374-LCV3 Client ID:
Report Date: 03/14/2023 08:52





**LOW-CONCENTRATION
CALIBRATION VERIFICATION
EPA 8270E**

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Calibration: GC00033

Laboratory ID: SLB0374-LCV4

Sequence: SLB0374

Standard ID: K011106

| ANALYTE | EXPECTED (ug/mL) | FOUND (ug/mL) | % DRIFT | QC LIMIT |
|------------------------------|---------------------|------------------|---------|----------|
| Phenol | 0.50000 | 0.5 | -1.5 | 50.00 |
| bis(2-chloroethyl) ether | 0.50000 | 0.5 | 1.8 | 50.00 |
| 2-Chlorophenol | 0.50000 | 0.5 | -5.5 | 50.00 |
| 1,3-Dichlorobenzene | 0.50000 | 0.5 | 3.9 | 50.00 |
| 1,4-Dichlorobenzene | 0.50000 | 0.5 | 0.2 | 50.00 |
| 1,2-Dichlorobenzene | 0.50000 | 0.5 | 6.0 | 50.00 |
| Benzyl Alcohol | 0.50000 | 0.3 | -33.4 | 50.00 |
| 2,2'-Oxybis(1-chloropropane) | 0.50000 | 0.5 | 4.5 | 50.00 |
| 2-Methylphenol | 0.50000 | 0.6 | 18.3 | 50.00 |
| Hexachloroethane | 0.50000 | 0.4 | -20.8 | 50.00 |
| N-Nitroso-di-n-Propylamine | 0.50000 | 0.6 | 11.9 | 50.00 |
| 4-Methylphenol | 0.50000 | 0.4 | -19.1 | 50.00 |
| Nitrobenzene | 0.50000 | 0.5 | 7.1 | 50.00 |
| Isophorone | 0.50000 | 0.4 | -11.4 | 50.00 |
| 2-Nitrophenol | 0.50000 | 0.4 | -23.0 | 50.00 |
| 2,4-Dimethylphenol | 1.0000 | 1.0 | 2.5 | 50.00 |
| Bis(2-Chloroethoxy)methane | 0.50000 | 0.5 | 6.0 | 50.00 |
| 2,4-Dichlorophenol | 1.0000 | 0.9 | -12.6 | 50.00 |
| 1,2,4-Trichlorobenzene | 0.50000 | 0.5 | -0.7 | 50.00 |
| Naphthalene | 0.50000 | 0.5 | 5.2 | 50.00 |
| Benzoic acid | 2.0000 | 0.9 | -54.5 * | 50.00 |
| 4-Chloroaniline | 1.0000 | 0.9 | -10.3 | 50.00 |
| Hexachlorobutadiene | 0.50000 | 0.5 | -7.7 | 50.00 |
| 4-Chloro-3-Methylphenol | 1.0000 | 1.0 | -0.4 | 50.00 |
| 2-Methylnaphthalene | 0.50000 | 0.5 | 2.8 | 50.00 |
| Hexachlorocyclopentadiene | 1.0000 | 0.01 | -98.9 * | 50.00 |
| 2,4,6-Trichlorophenol | 1.0000 | 0.9 | -11.0 | 50.00 |
| 2,4,5-Trichlorophenol | 1.0000 | 0.8 | -17.7 | 50.00 |
| 2-Chloronaphthalene | 0.50000 | 0.5 | 2.4 | 50.00 |



**LOW-CONCENTRATION
CALIBRATION VERIFICATION
EPA 8270E**

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Calibration: GC00033

Laboratory ID: SLB0374-LCV4

Sequence: SLB0374

Standard ID: K011106

| | | | | |
|----------------------------|---------|-----|---------|-------|
| 2-Nitroaniline | 1.0000 | 1.1 | 7.0 | 50.00 |
| Acenaphthylene | 0.50000 | 0.6 | 12.3 | 50.00 |
| Dimethylphthalate | 0.50000 | 0.6 | 10.6 | 50.00 |
| 2,6-Dinitrotoluene | 1.0000 | 1.0 | 0.4 | 50.00 |
| Acenaphthene | 0.50000 | 0.5 | 4.0 | 50.00 |
| 3-Nitroaniline | 1.0000 | 0.8 | -23.7 | 50.00 |
| 2,4-Dinitrophenol | 2.0000 | 0.3 | -83.4 * | 50.00 |
| Dibenzofuran | 0.50000 | 0.5 | 0.5 | 50.00 |
| 4-Nitrophenol | 1.0000 | 0.8 | -22.6 | 50.00 |
| 2,4-Dinitrotoluene | 1.0000 | 0.9 | -12.2 | 50.00 |
| Fluorene | 0.50000 | 0.5 | 4.1 | 50.00 |
| 4-Chlorophenylphenyl ether | 0.50000 | 0.5 | -1.1 | 50.00 |
| Diethyl phthalate | 0.50000 | 0.6 | 10.1 | 50.00 |
| 4-Nitroaniline | 1.0000 | 0.7 | -28.4 | 50.00 |
| 4,6-Dinitro-2-methylphenol | 2.0000 | 0.8 | -62.0 * | 50.00 |
| N-Nitrosodiphenylamine | 0.50000 | 0.6 | 12.9 | 50.00 |
| 4-Bromophenyl phenyl ether | 0.50000 | 0.5 | 1.4 | 50.00 |
| Hexachlorobenzene | 0.50000 | 0.5 | 5.1 | 50.00 |
| Pentachlorophenol | 1.0000 | 0.5 | -49.8 | 50.00 |
| Phenanthrene | 0.50000 | 0.5 | 3.0 | 50.00 |
| Anthracene | 0.50000 | 0.5 | 6.3 | 50.00 |
| Carbazole | 0.50000 | 0.5 | -1.8 | 50.00 |
| Di-n-Butylphthalate | 0.50000 | 0.5 | -0.9 | 50.00 |
| Fluoranthene | 0.50000 | 0.5 | -6.4 | 50.00 |
| Pyrene | 0.50000 | 0.5 | -5.2 | 50.00 |
| Butylbenzylphthalate | 0.50000 | 0.5 | 0.7 | 50.00 |
| Benzo(a)anthracene | 0.50000 | 0.5 | 9.3 | 50.00 |
| 3,3'-Dichlorobenzidine | 1.5000 | 1.9 | 26.4 | 50.00 |
| Chrysene | 0.50000 | 0.5 | 5.1 | 50.00 |
| bis(2-Ethylhexyl)phthalate | 0.50000 | 0.5 | -8.3 | 50.00 |
| Di-n-Octylphthalate | 0.50000 | 0.5 | 0.8 | 50.00 |



**LOW-CONCENTRATION
CALIBRATION VERIFICATION
EPA 8270E**

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Calibration: GC00033

Laboratory ID: SLB0374-LCV4

Sequence: SLB0374

Standard ID: K011106

| | | | | |
|---------------------------|---------|-------|---------|-------|
| Benzofluoranthenes, Total | 1.0000 | 1.2 | 16.7 | 50.00 |
| Benzo(a)pyrene | 0.50000 | 0.5 | 8.7 | 50.00 |
| Indeno(1,2,3-cd)pyrene | 0.50000 | 0.3 | -49.6 | 50.00 |
| Dibenzo(a,h)anthracene | 0.50000 | 0.3 | -43.7 | 50.00 |
| Benzo(g,h,i)perylene | 0.50000 | 0.2 | -60.3 * | 50.00 |
| 1-Methylnaphthalene | 0.50000 | 0.5 | 1.7 | 50.00 |
| 2-Fluorophenol | 0.75000 | 0.681 | -9.1 | 50.00 |
| Phenol-d5 | 0.75000 | 0.720 | -4.0 | 50.00 |
| 2-Chlorophenol-d4 | 0.75000 | 0.758 | 1.1 | 50.00 |
| 1,2-Dichlorobenzene-d4 | 0.50000 | 0.499 | -0.3 | 50.00 |
| Nitrobenzene-d5 | 0.50000 | 0.551 | 10.2 | 50.00 |
| 2-Fluorobiphenyl | 0.50000 | 0.519 | 3.9 | 50.00 |
| 2,4,6-Tribromophenol | 0.75000 | 0.542 | -27.7 | 50.00 |
| p-Terphenyl-d14 | 0.50000 | 0.466 | -6.9 | 50.00 |

* Values outside of QC limits

Data File: \\target\share\chem3\nt14,1\20230228,16\NT1423022839.D

Date: 02-MAR-2023 00:28

Client ID:

Sample Info: SLB0374-LCV4

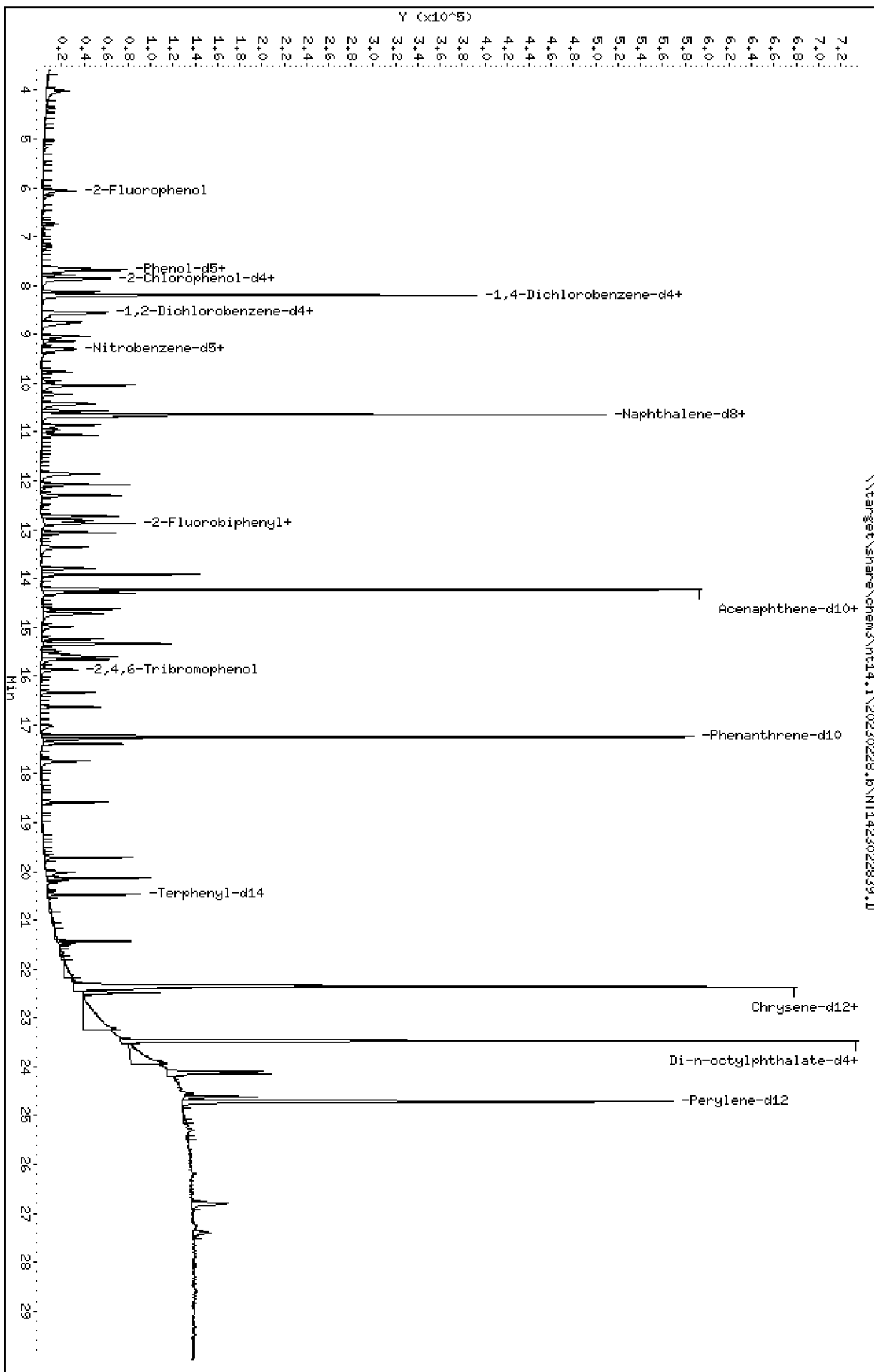
Column phase: ZB-5msi

Instrument: nt14,1

Operator: JGR

Column diameter: 0.25

Page 1



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

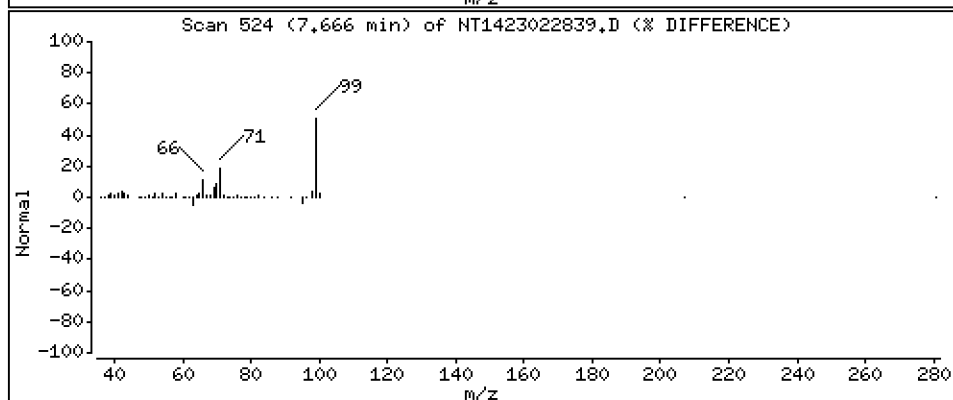
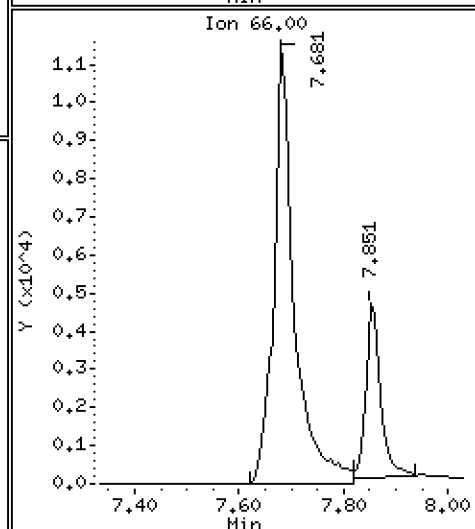
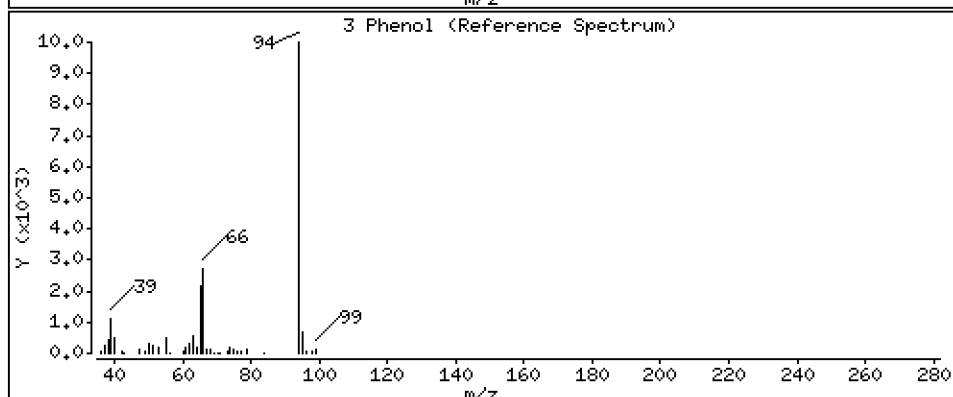
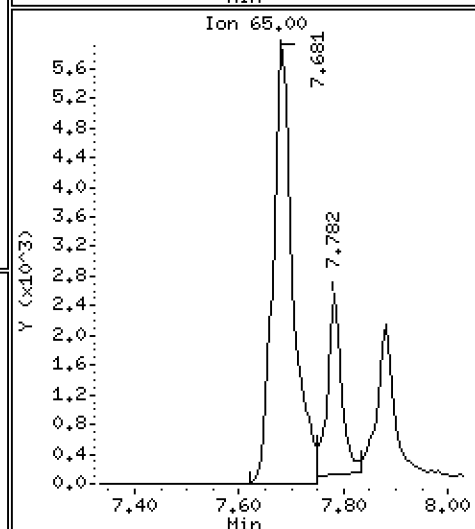
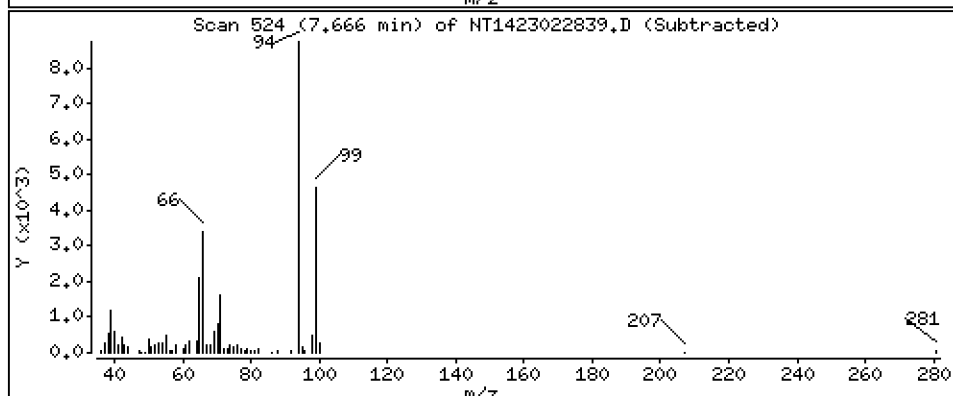
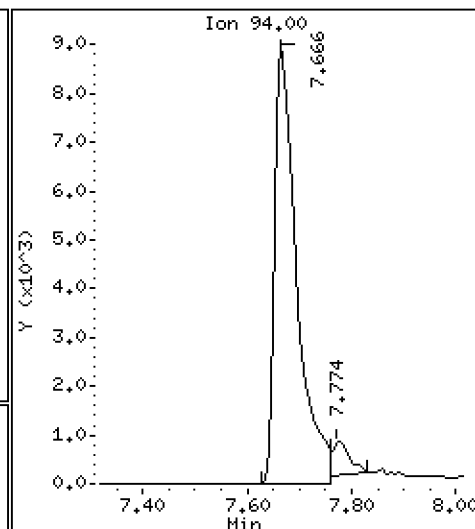
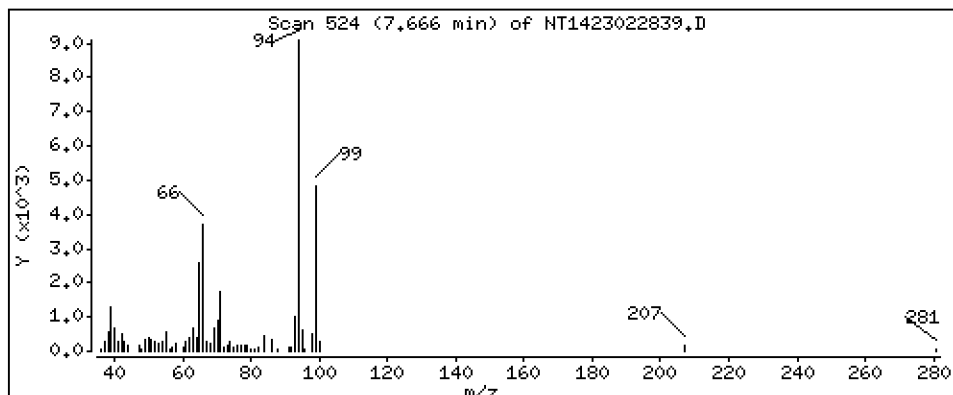
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 0,4925 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

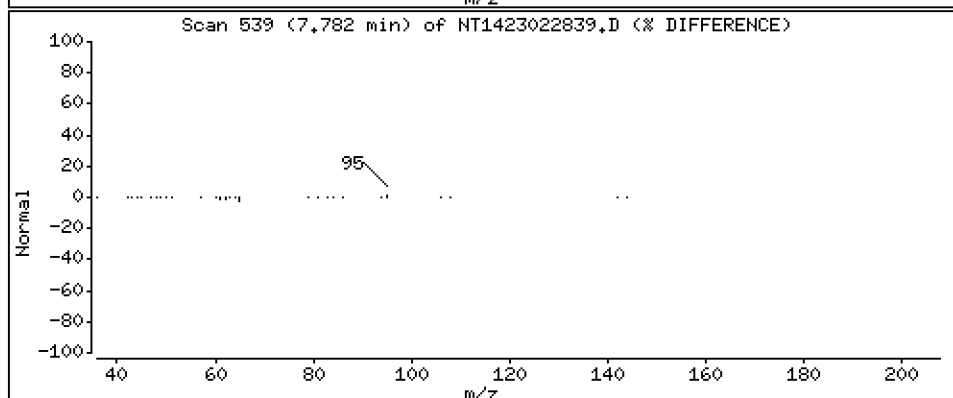
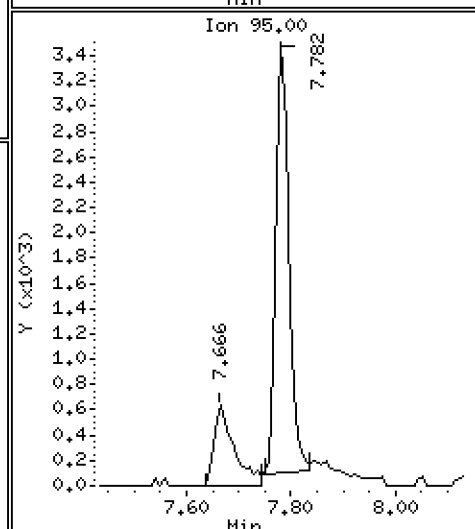
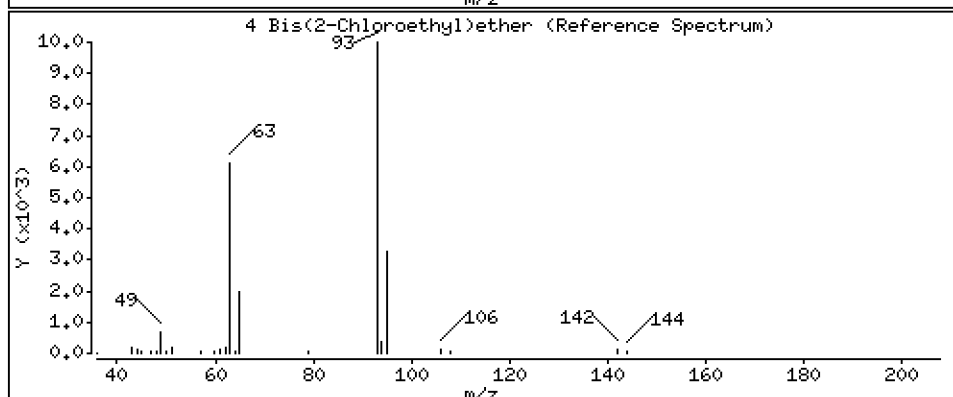
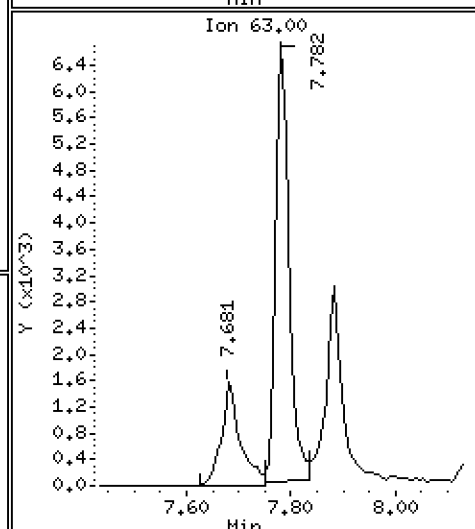
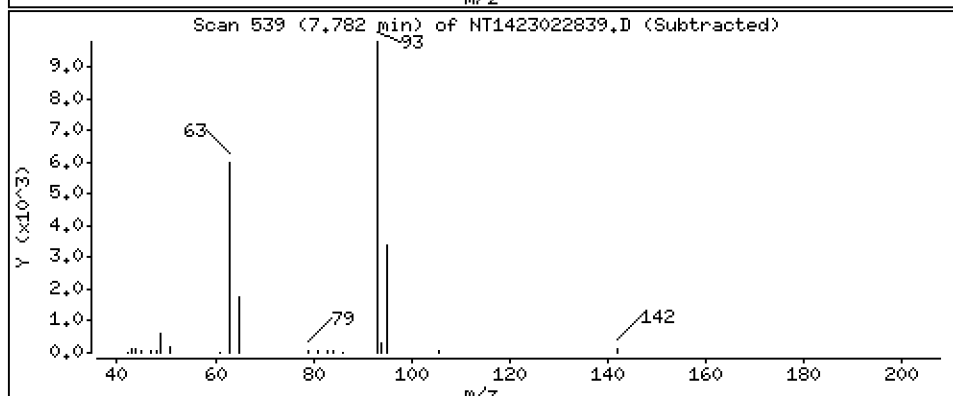
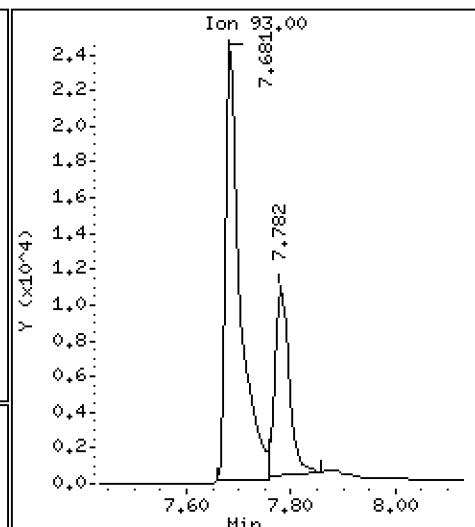
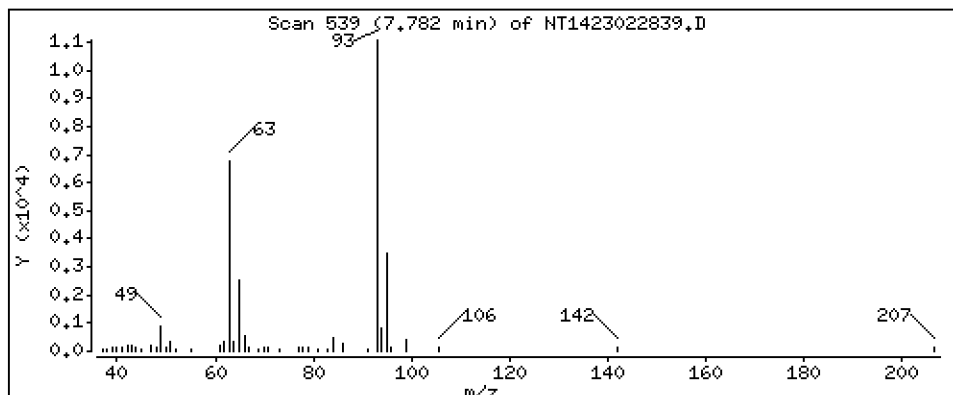
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

4 Bis(2-Chloroethyl)ether

Concentration: 0,5090 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

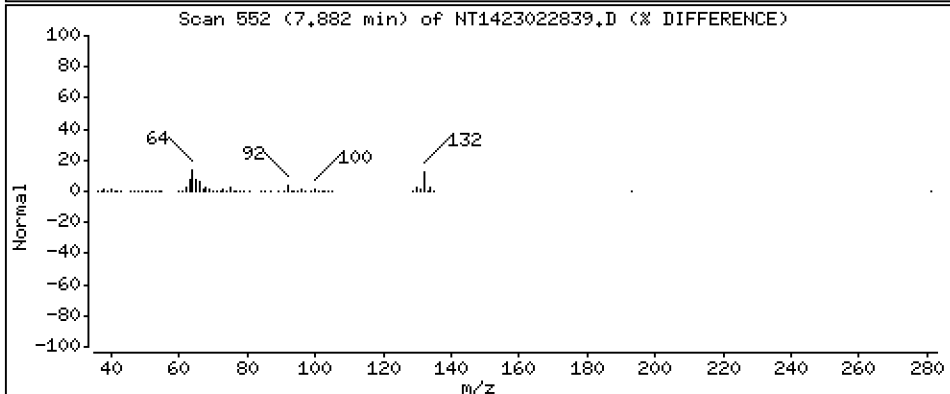
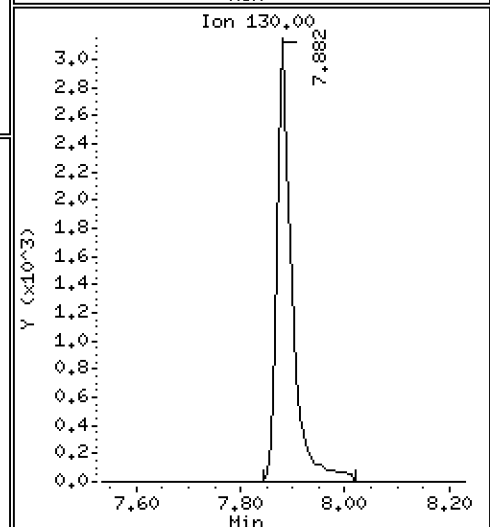
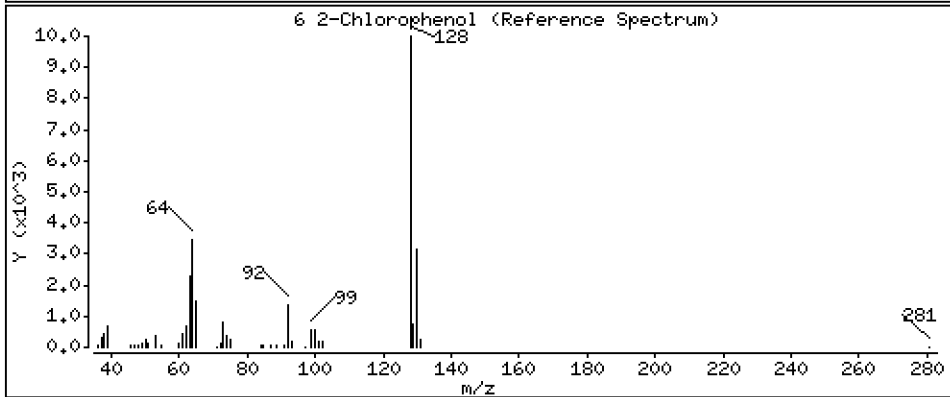
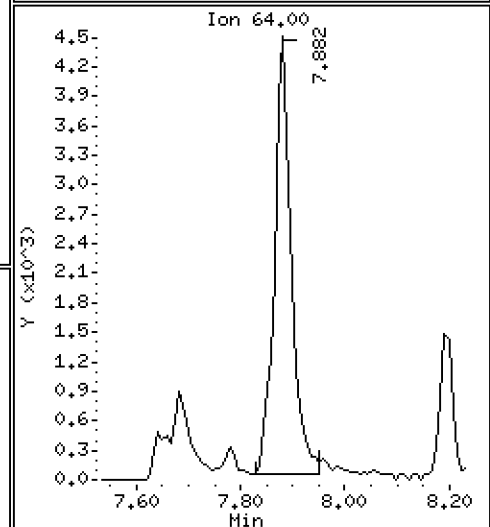
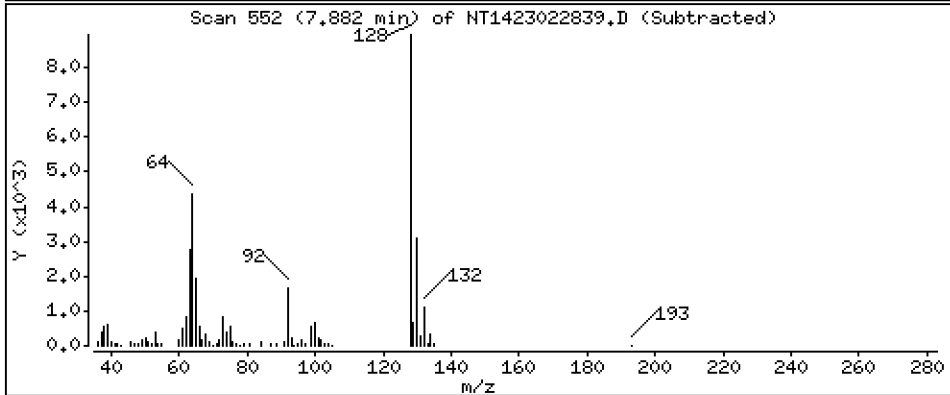
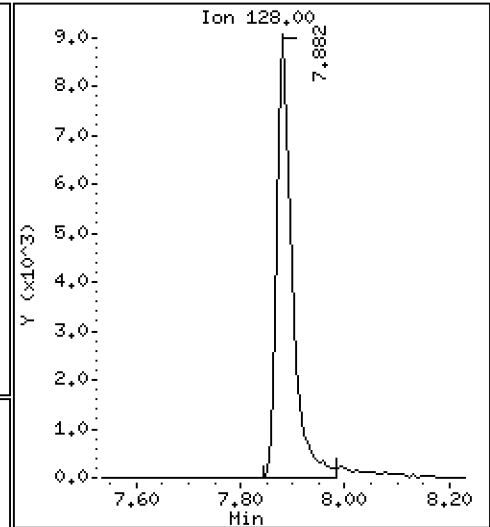
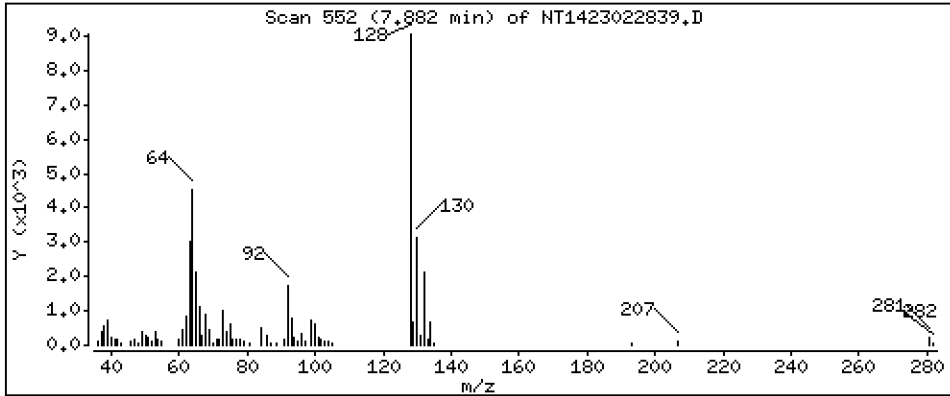
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 0,4724 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

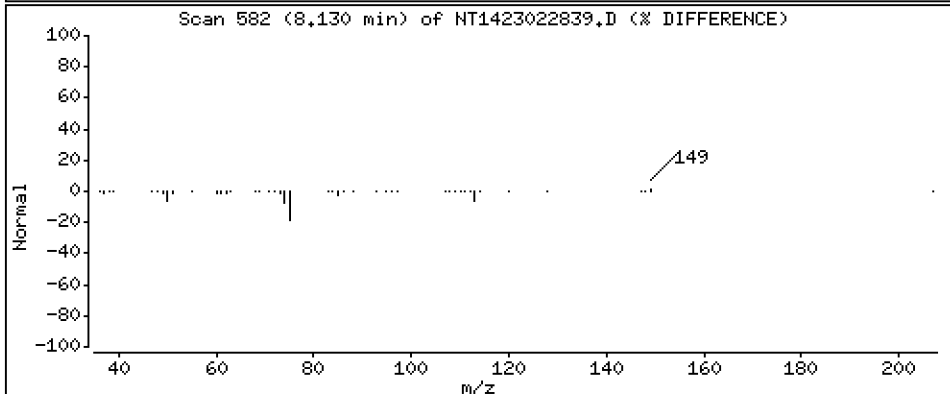
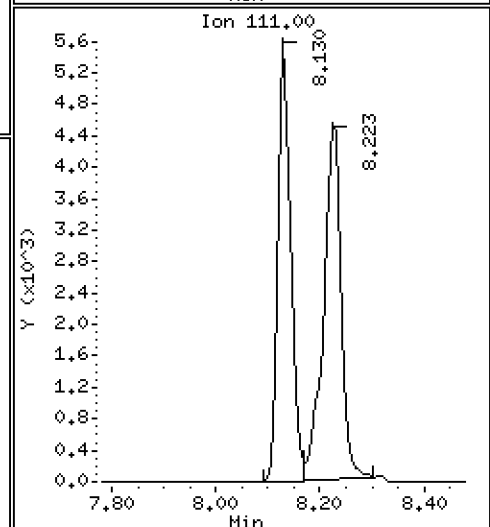
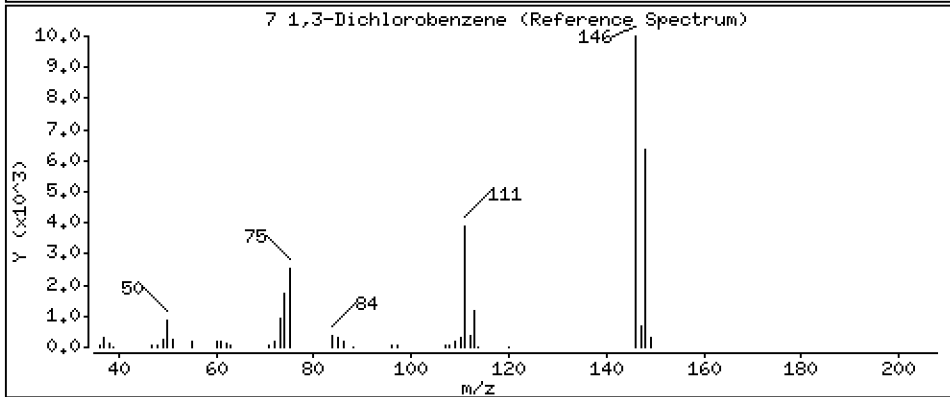
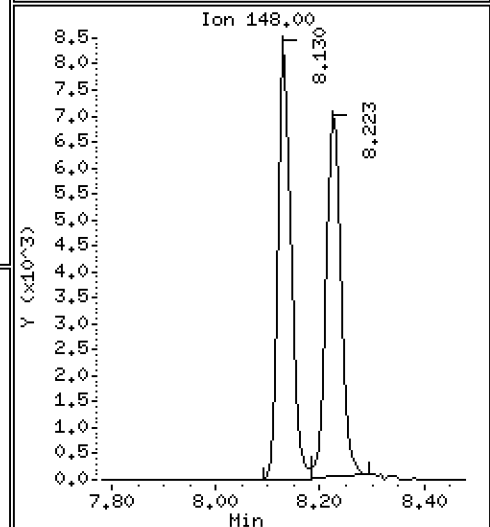
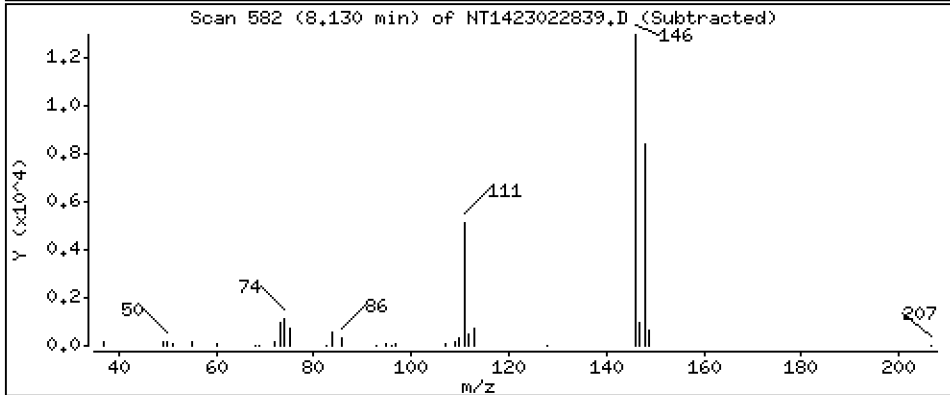
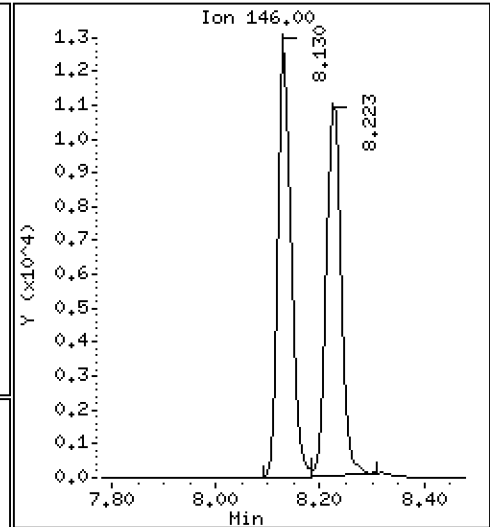
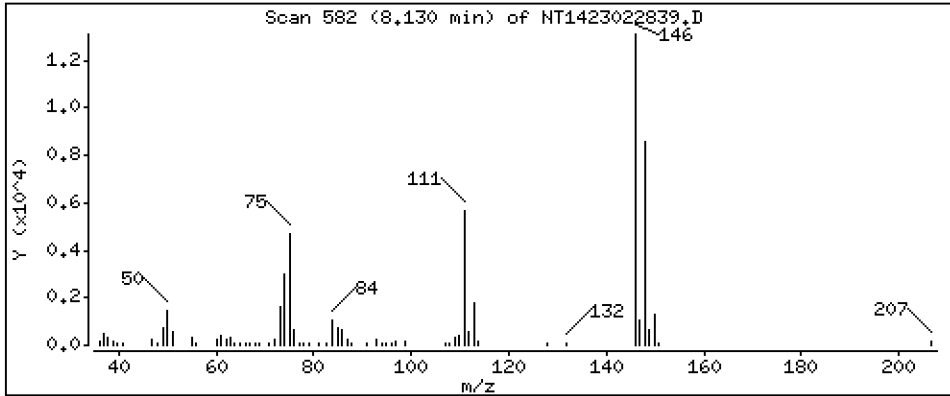
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

7 1,3-Dichlorobenzene

Concentration: 0,5195 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

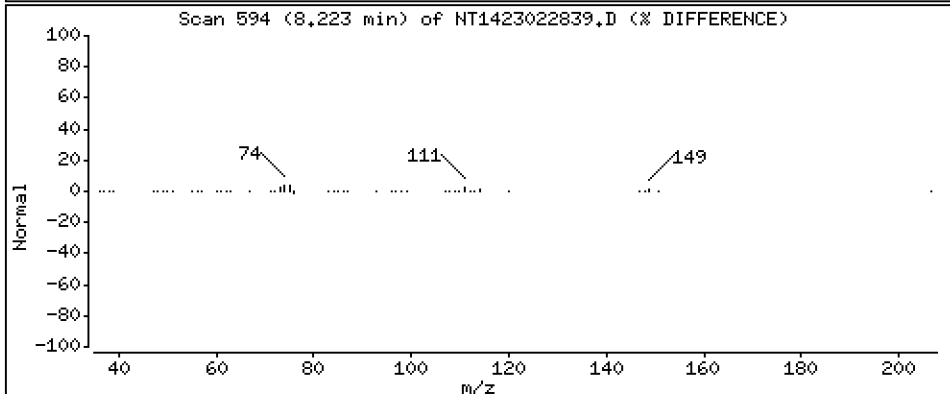
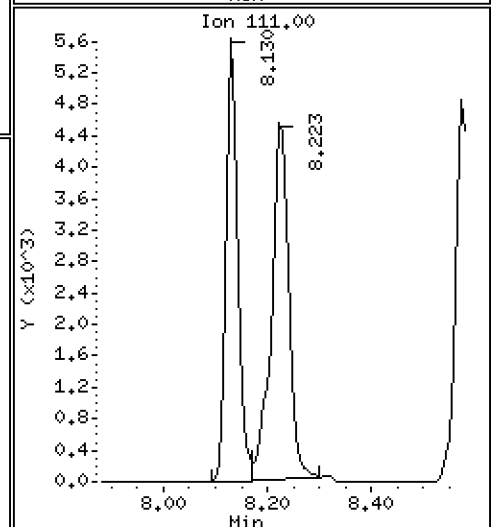
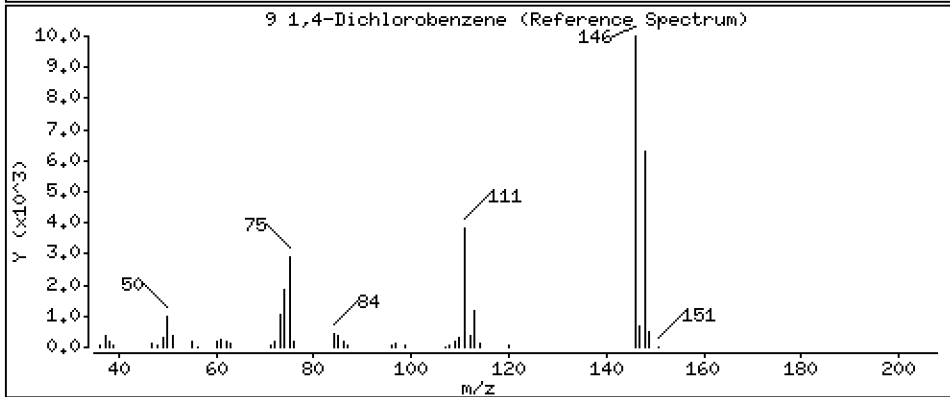
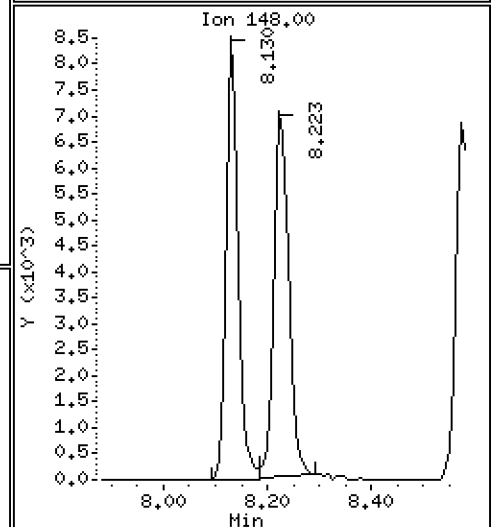
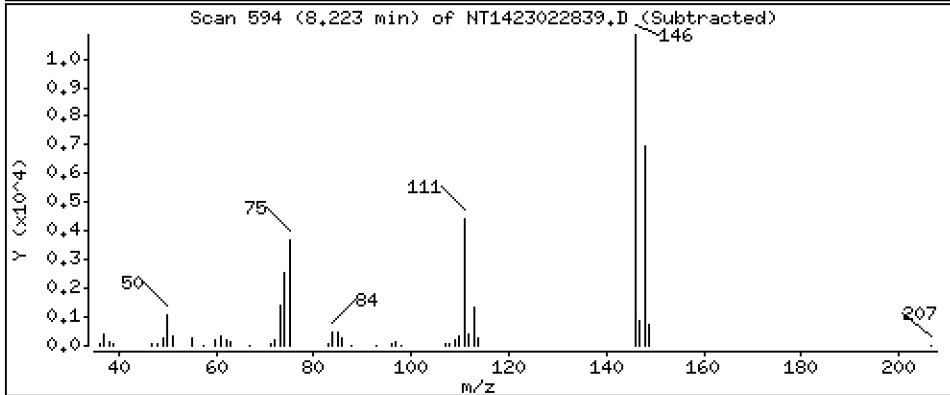
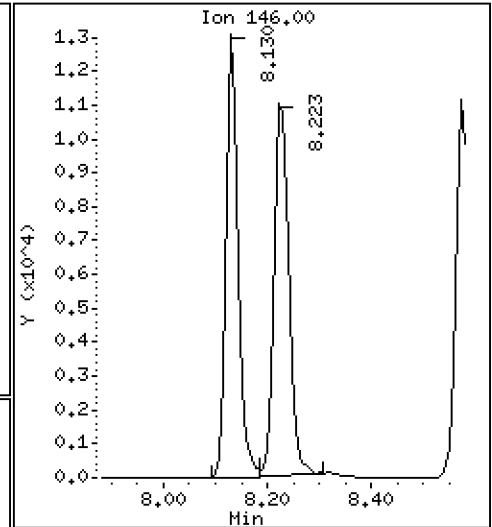
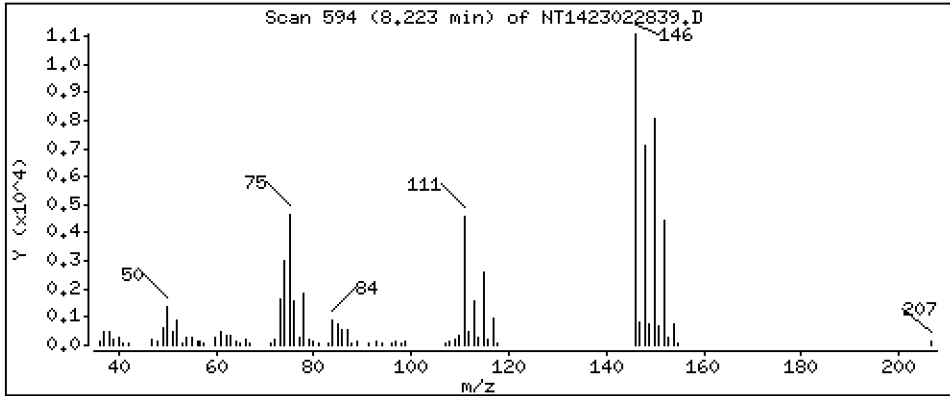
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 0,5009 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

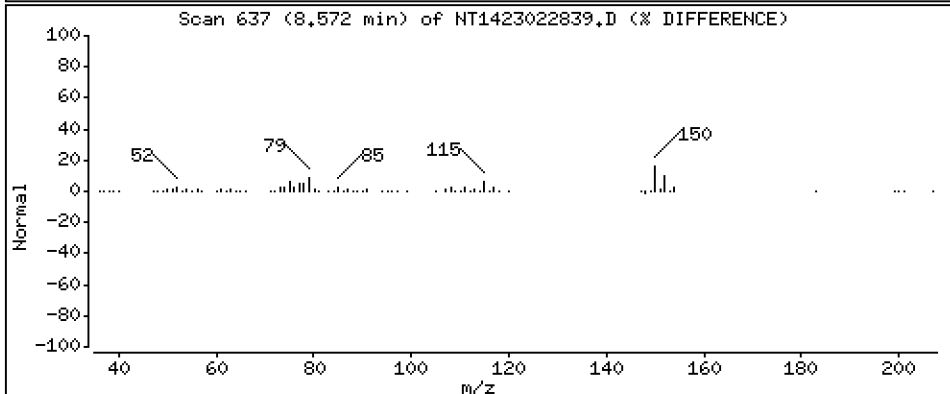
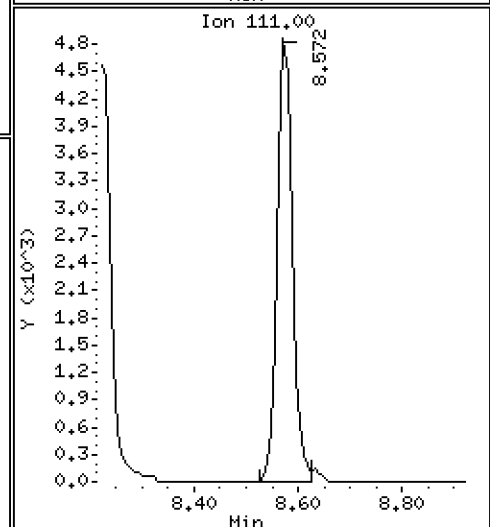
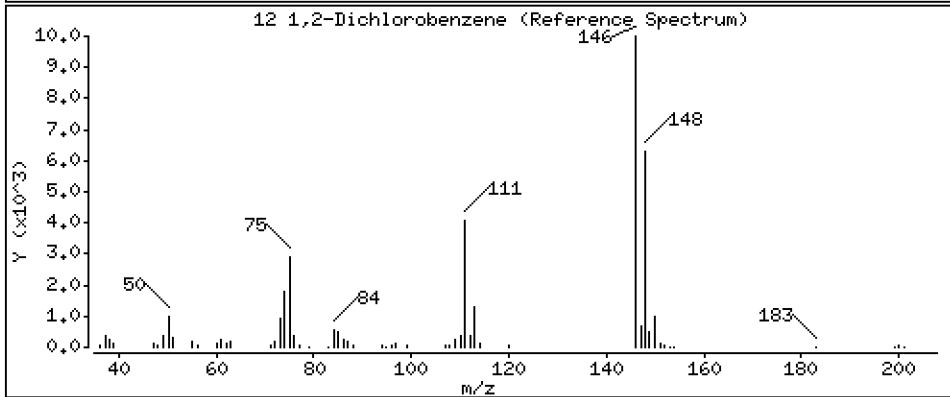
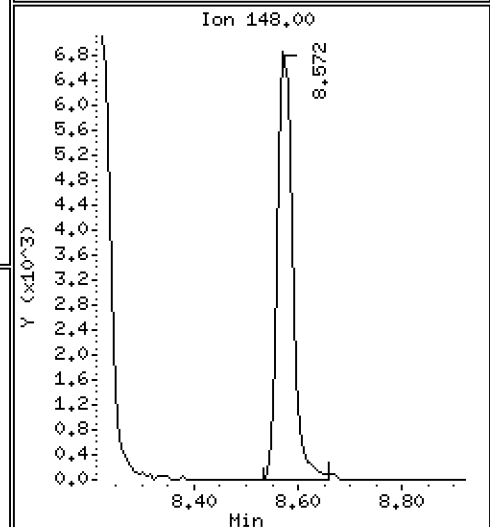
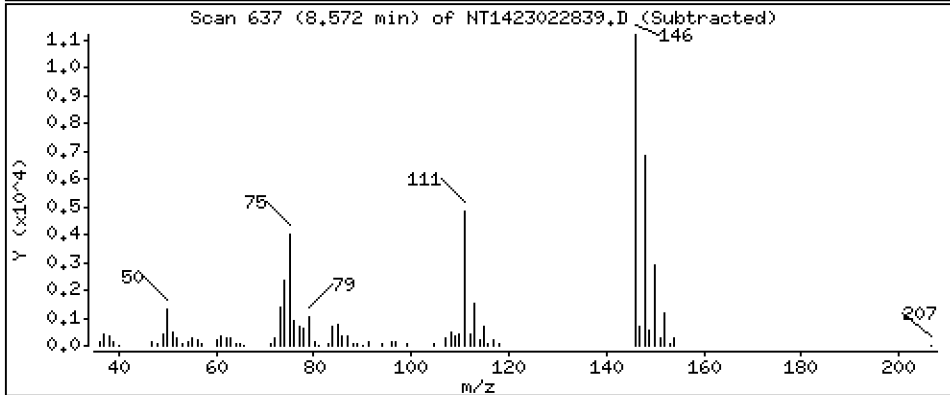
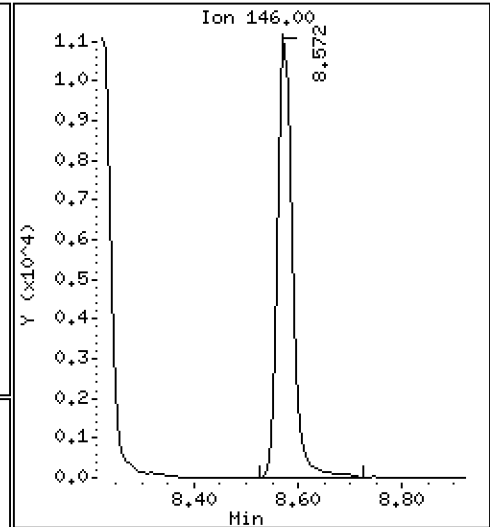
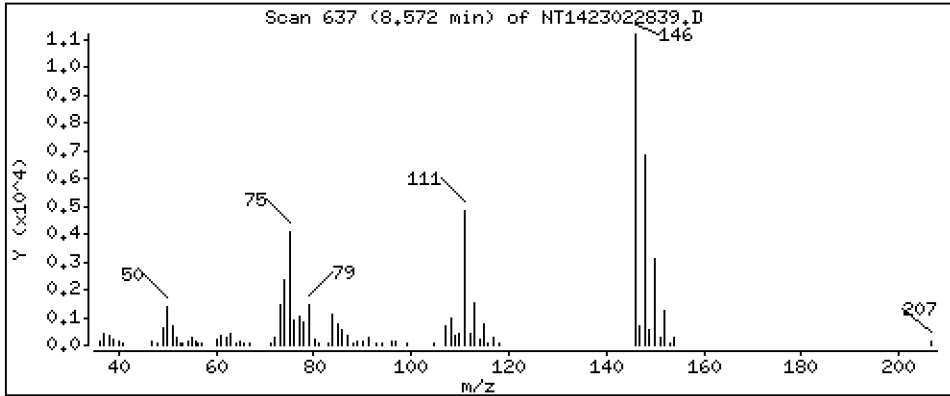
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

12 1,2-Dichlorobenzene

Concentration: 0,5300 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

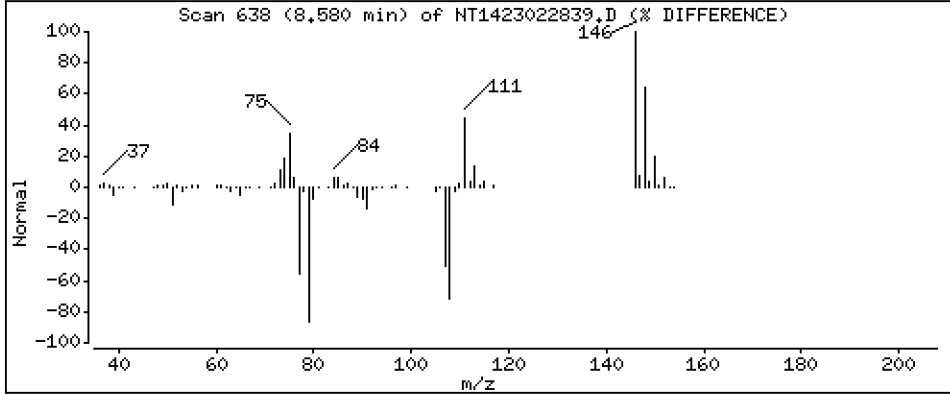
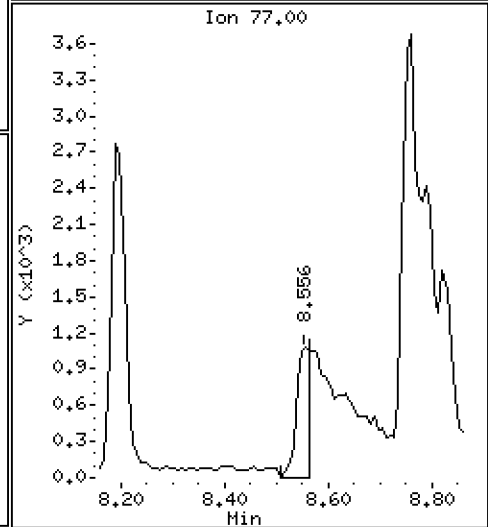
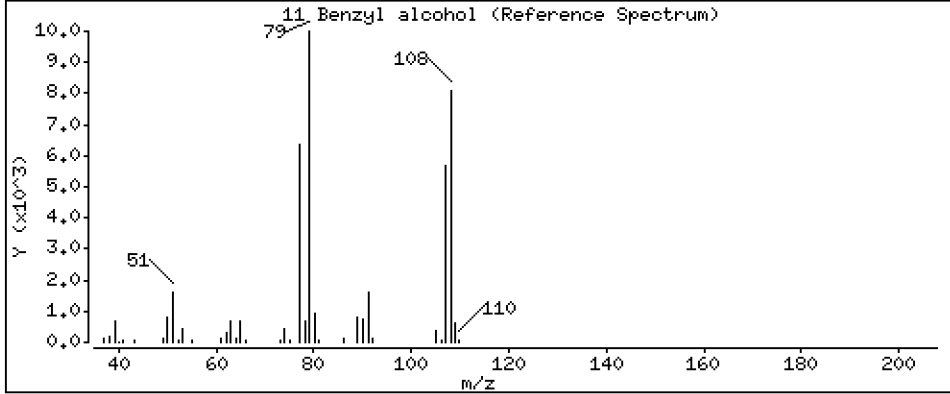
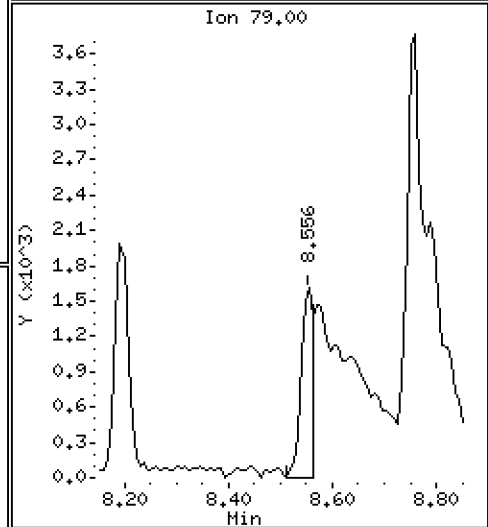
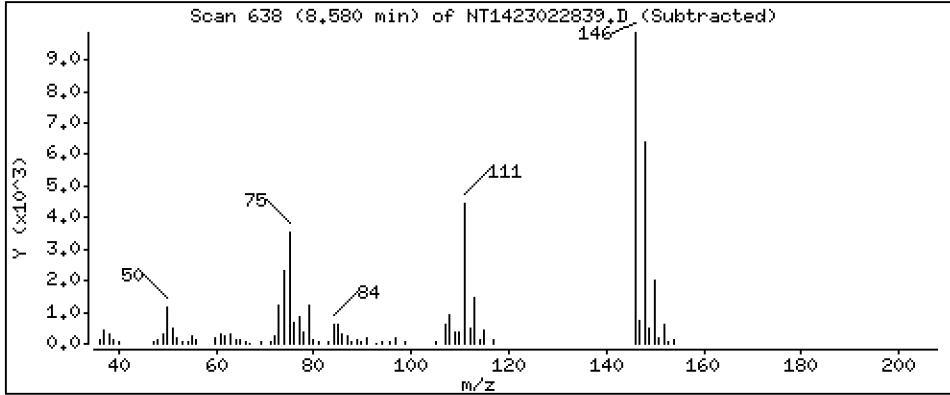
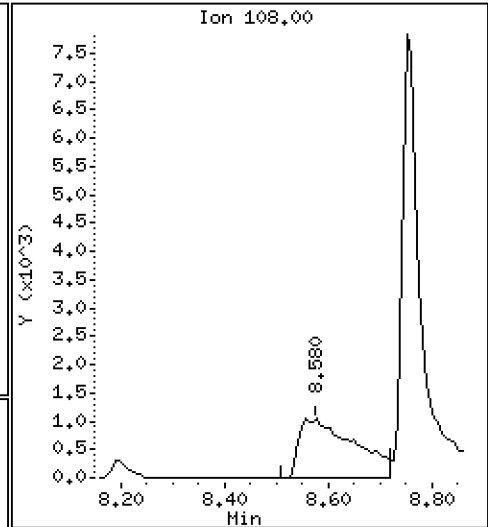
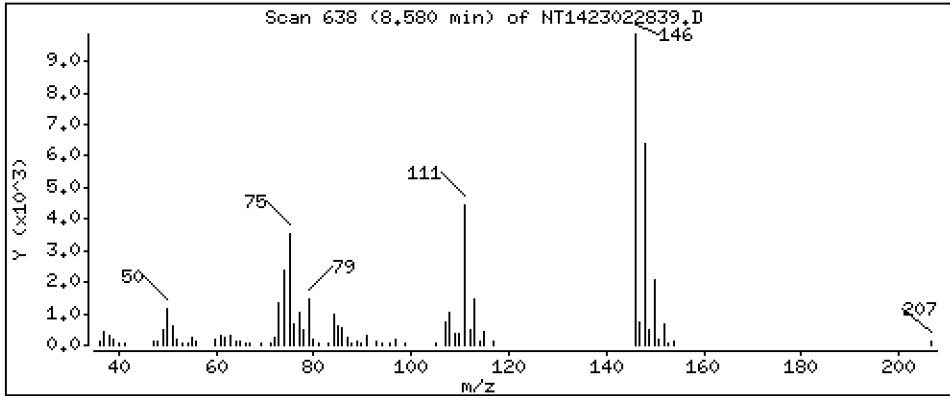
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

11 Benzyl alcohol

Concentration: 0,3329 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

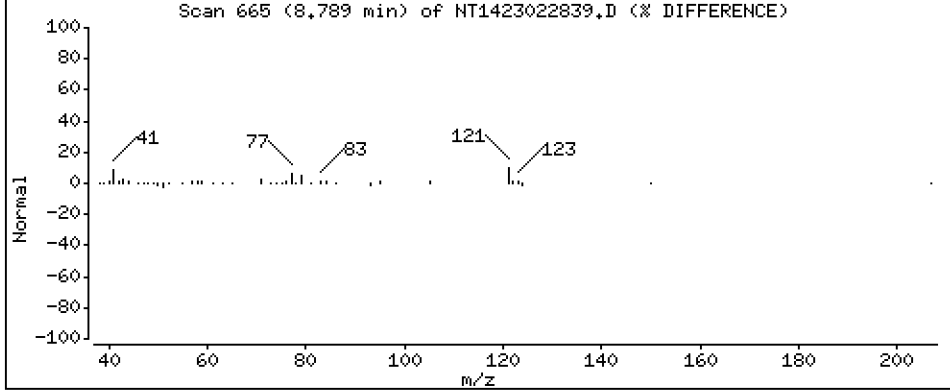
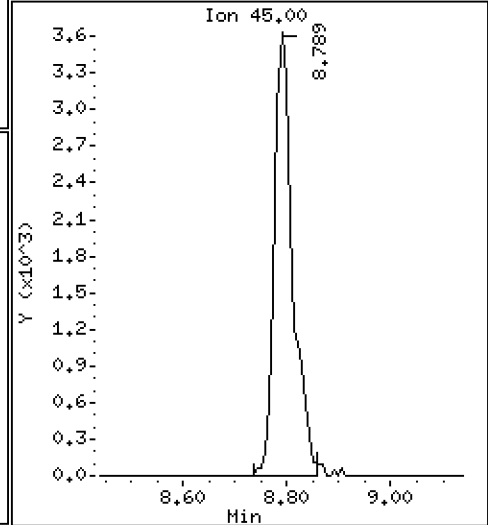
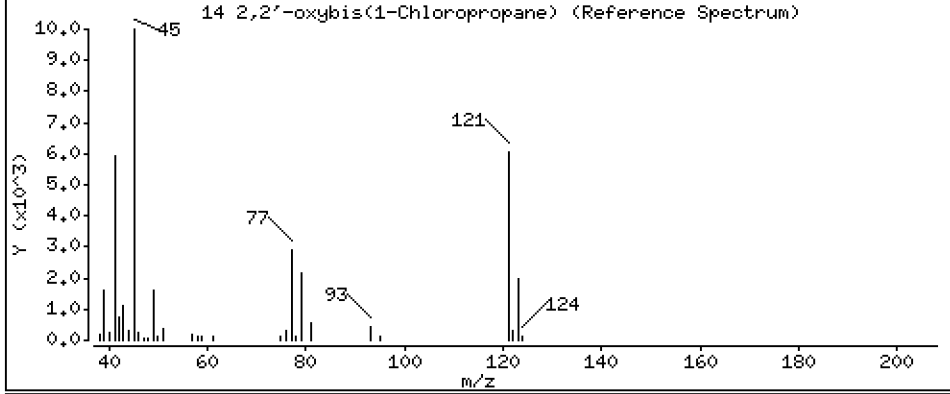
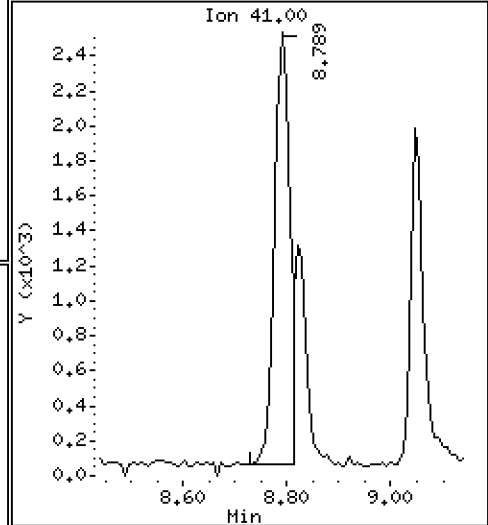
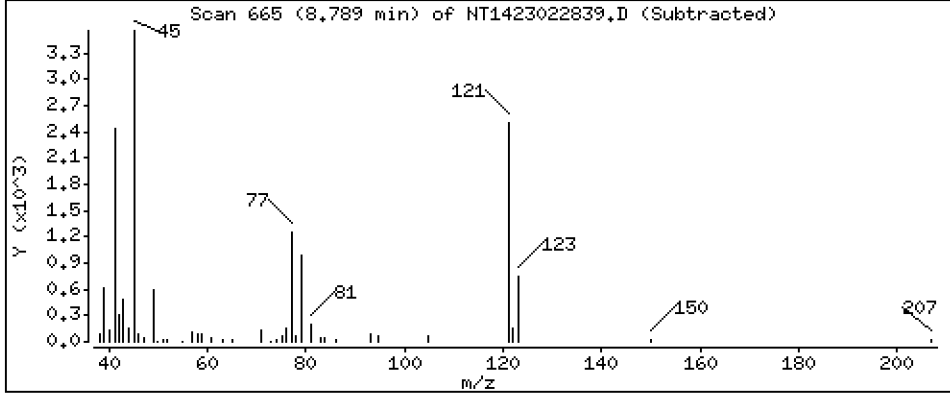
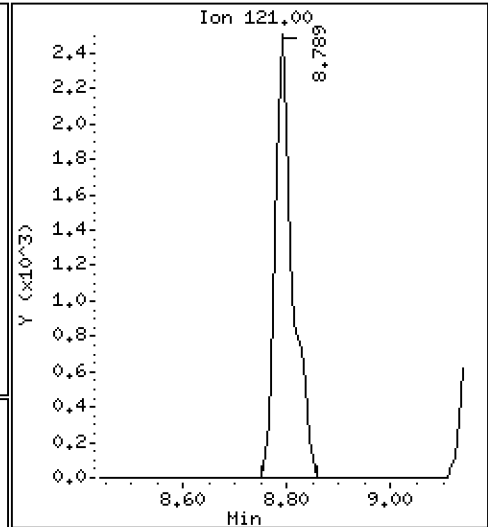
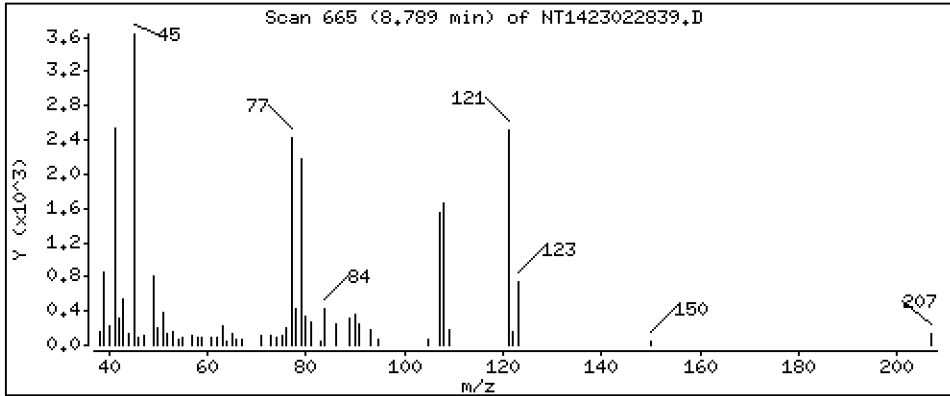
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 0,5223 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

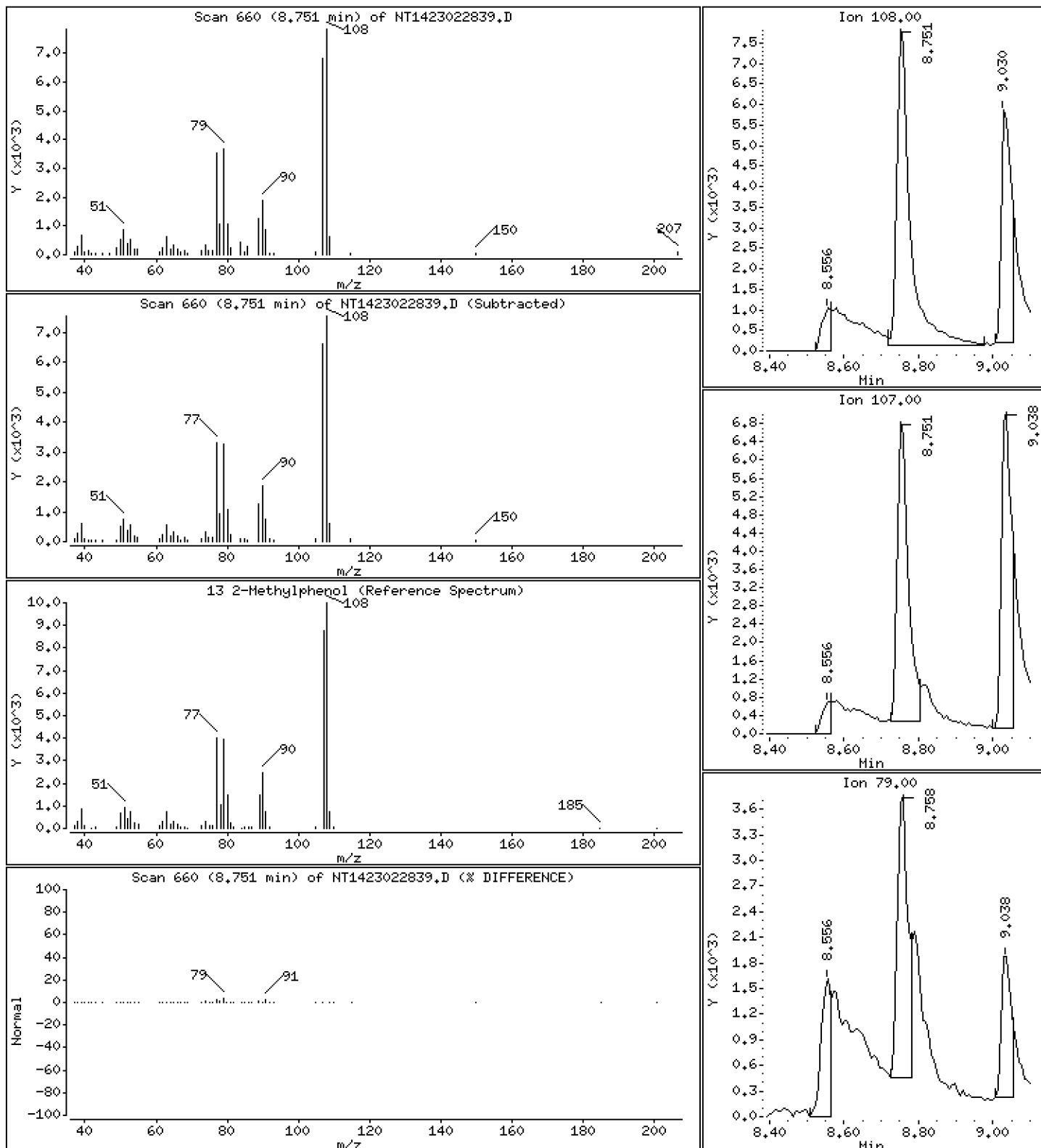
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

13 2-Methylphenol

Concentration: 0.5917 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

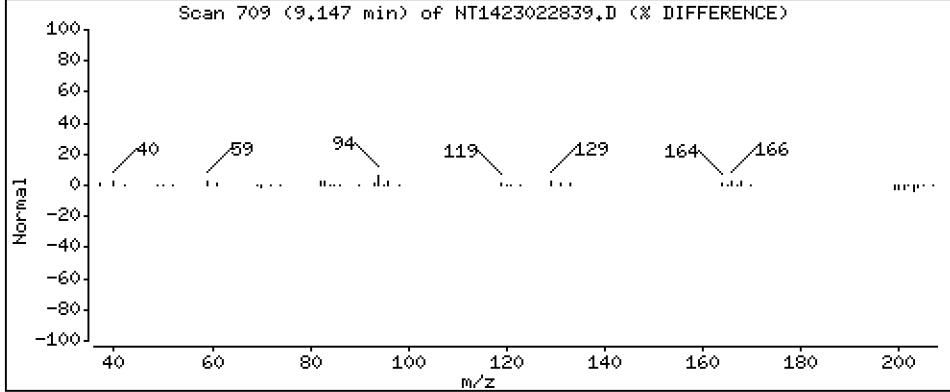
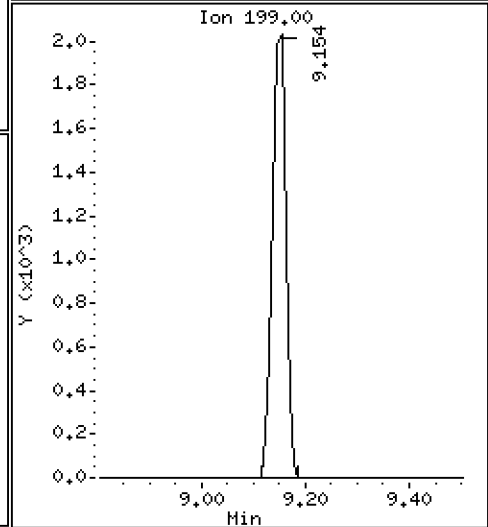
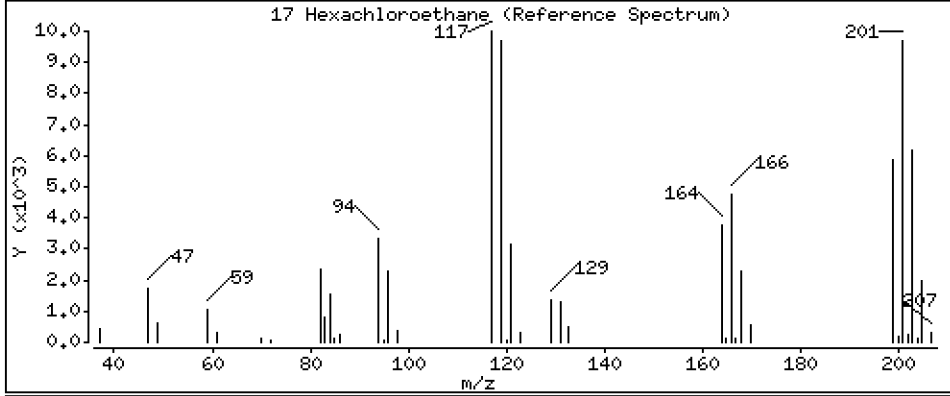
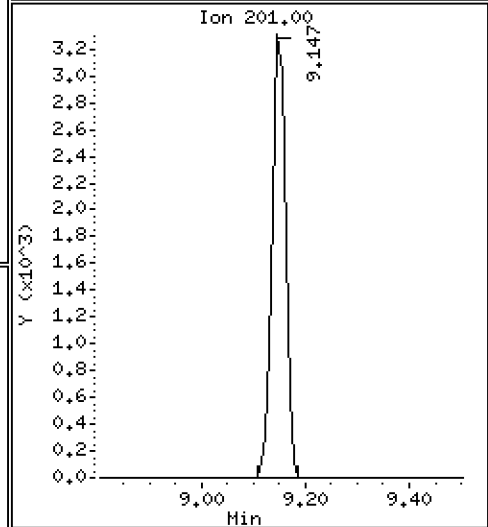
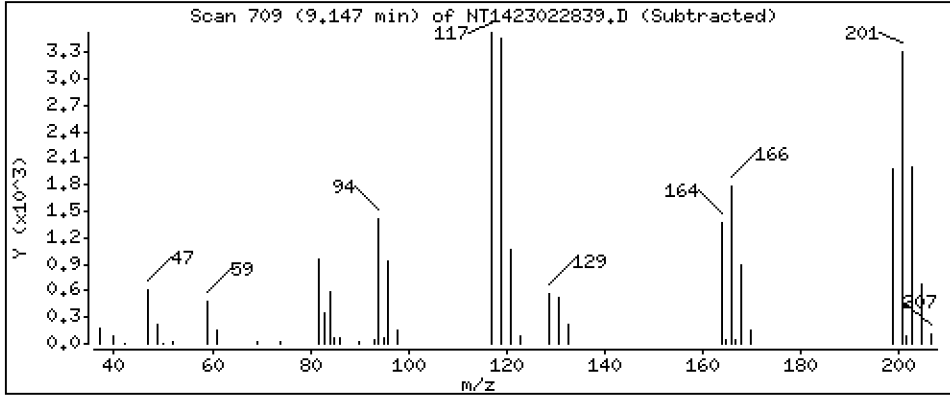
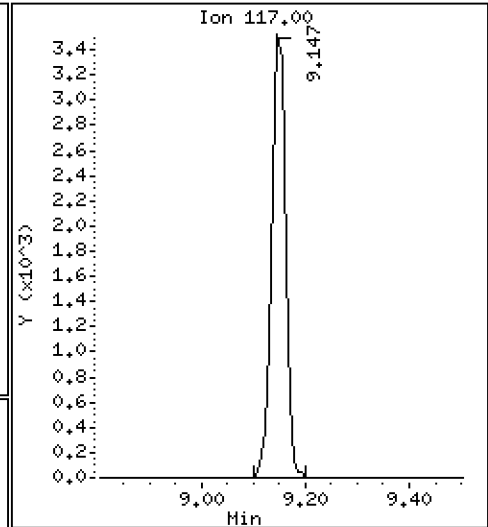
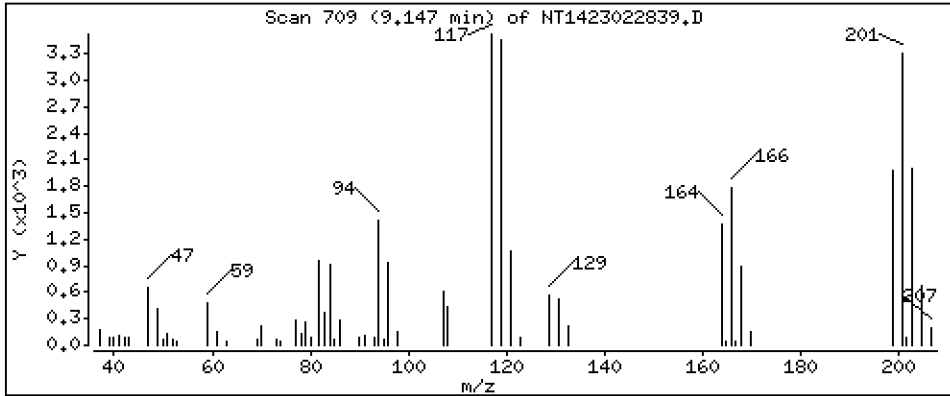
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

17 Hexachloroethane

Concentration: 0.3959 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

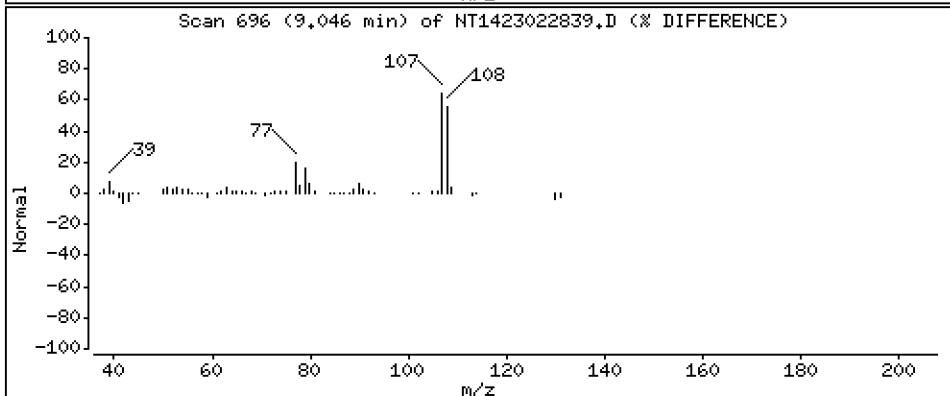
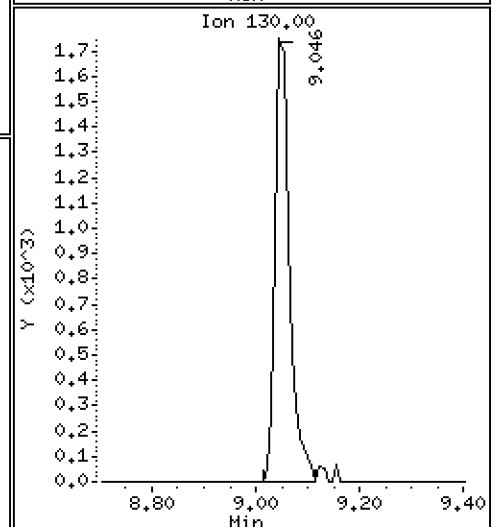
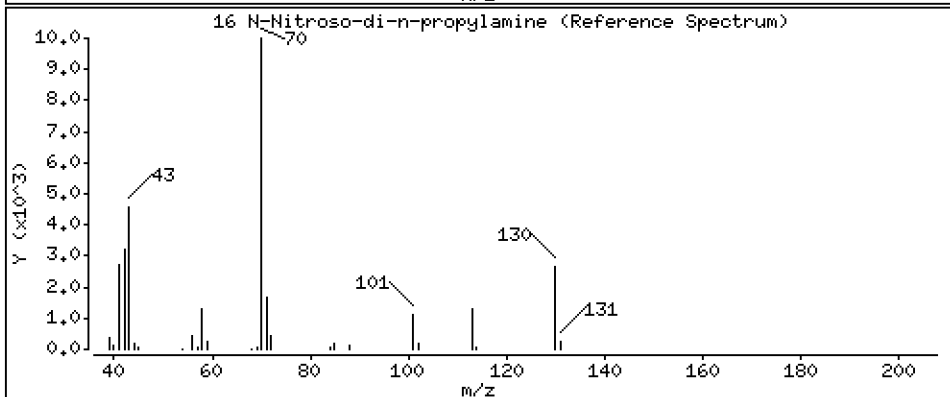
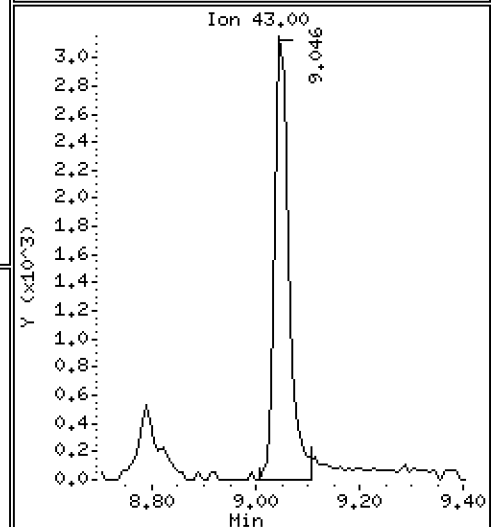
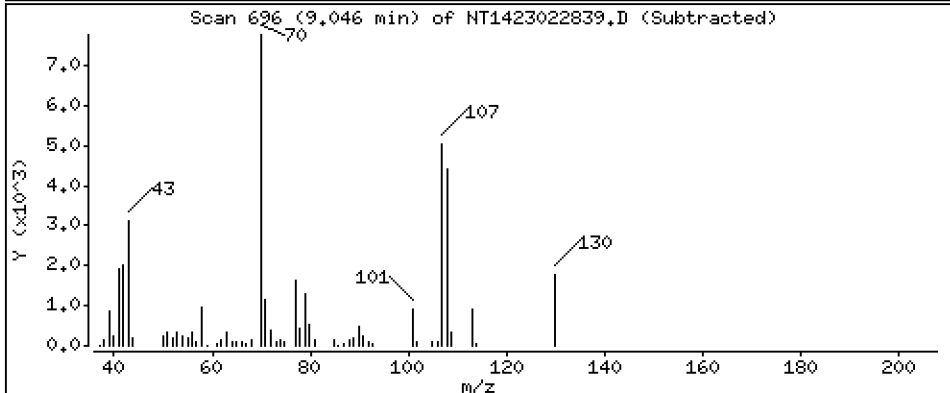
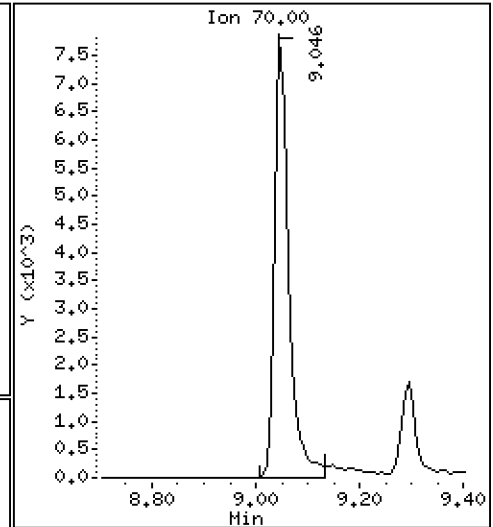
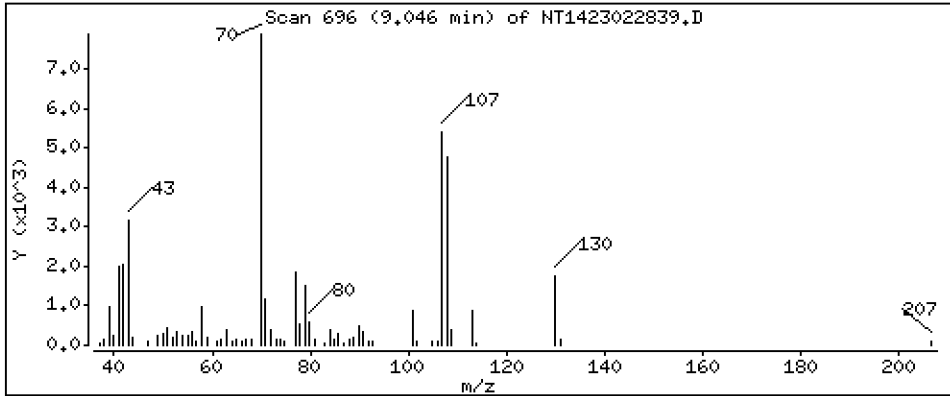
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

16 N-Nitroso-di-n-propylamine

Concentration: 0.5593 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

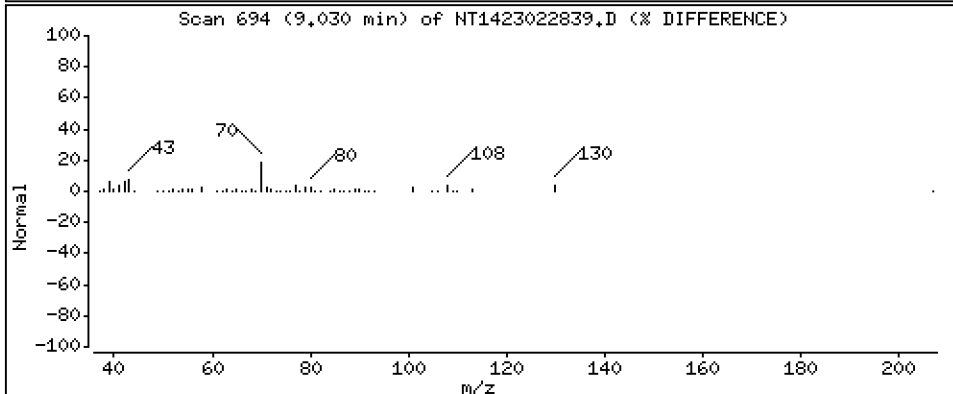
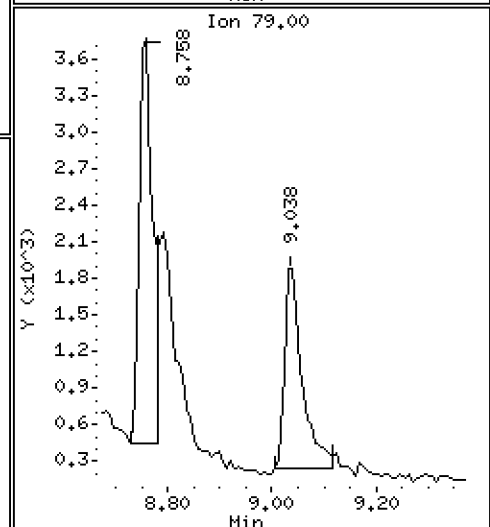
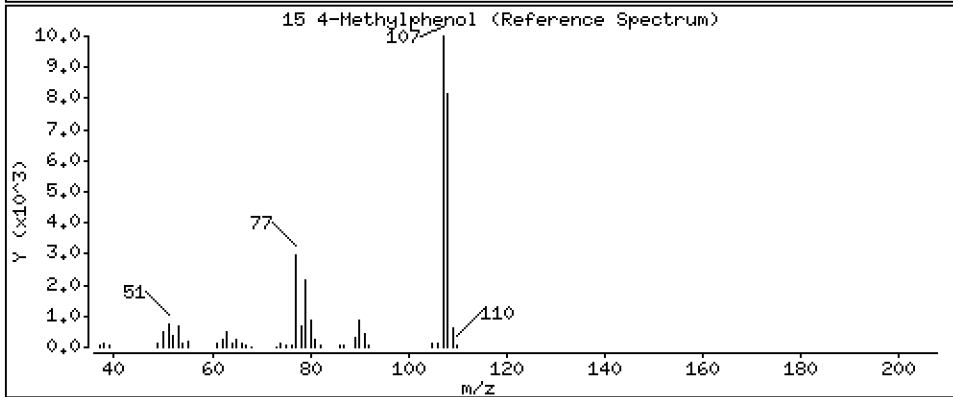
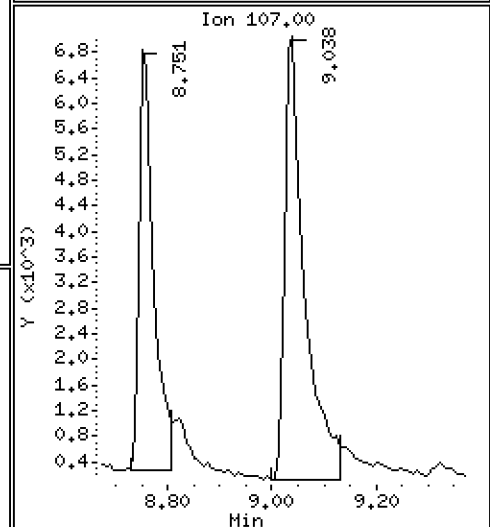
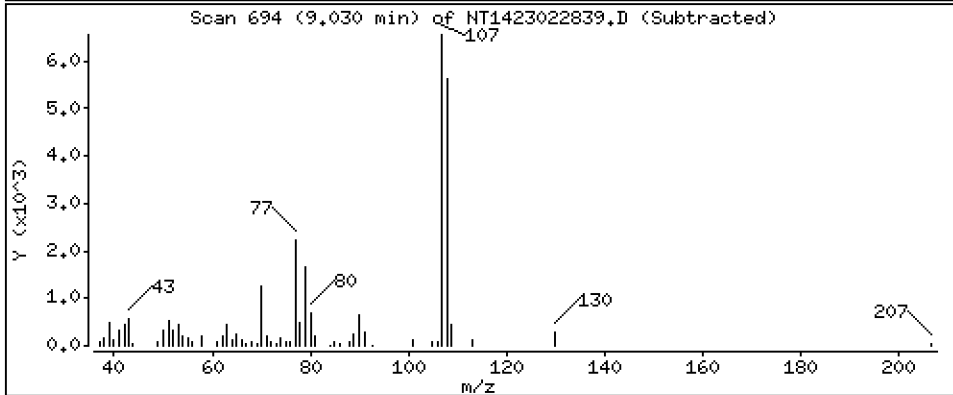
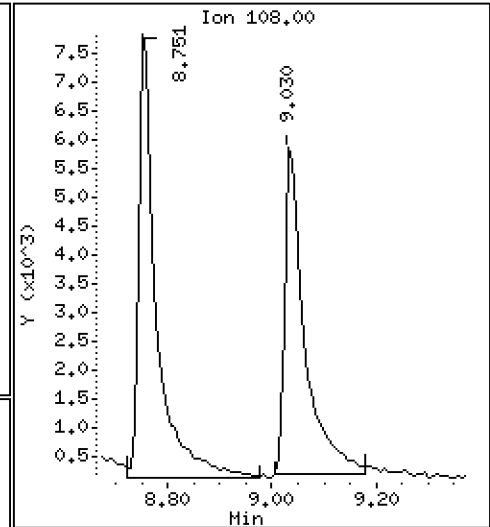
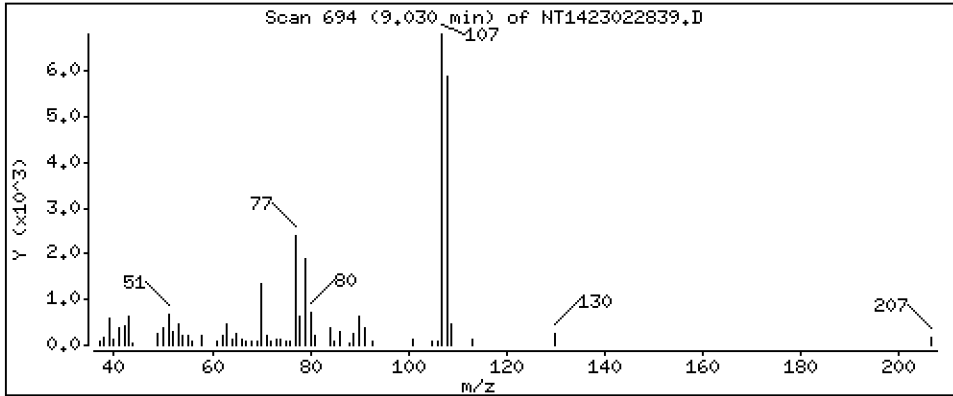
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 0.4047 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

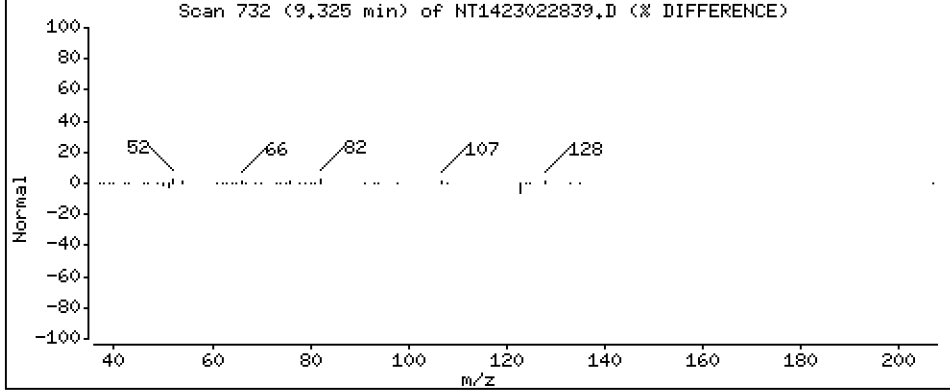
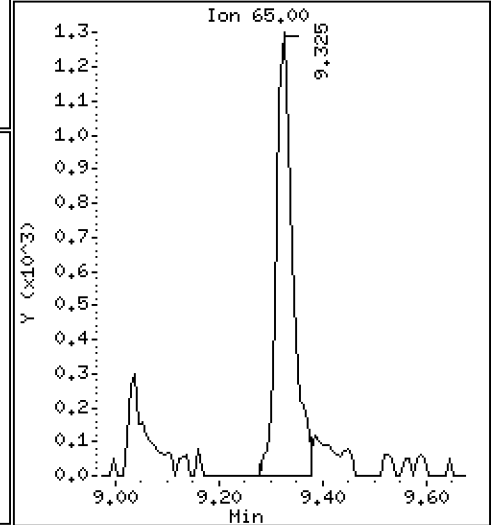
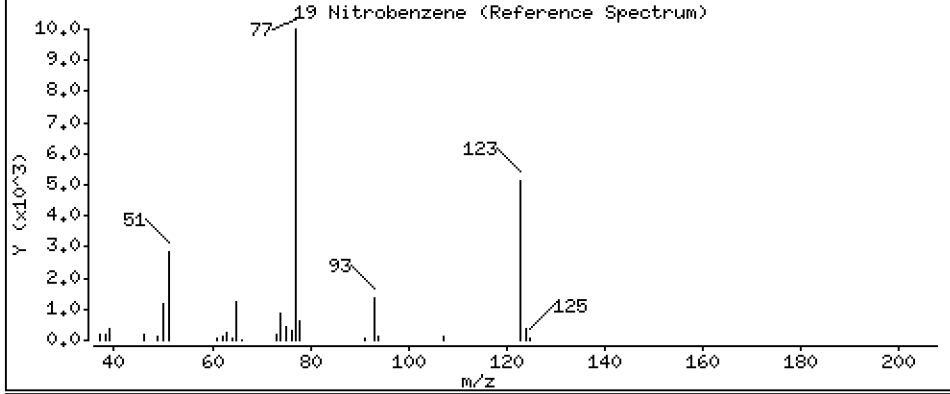
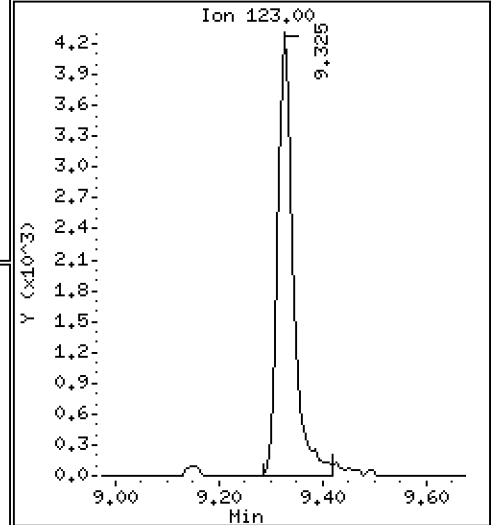
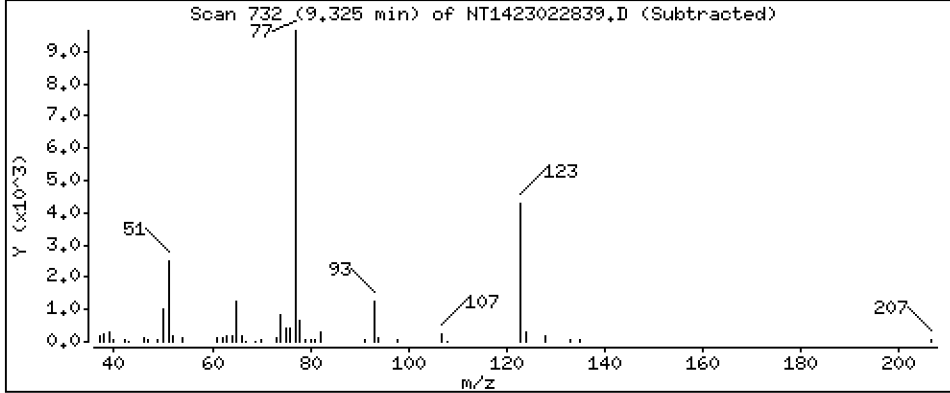
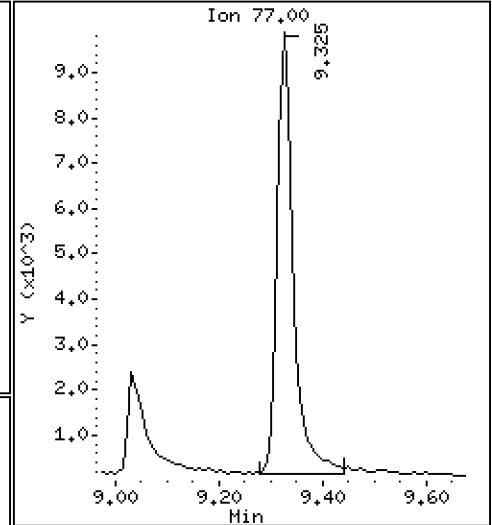
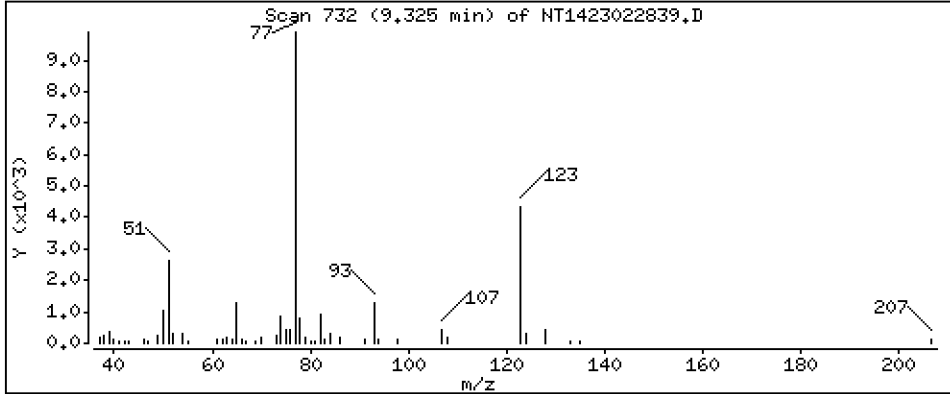
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

19 Nitrobenzene

Concentration: 0,5354 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

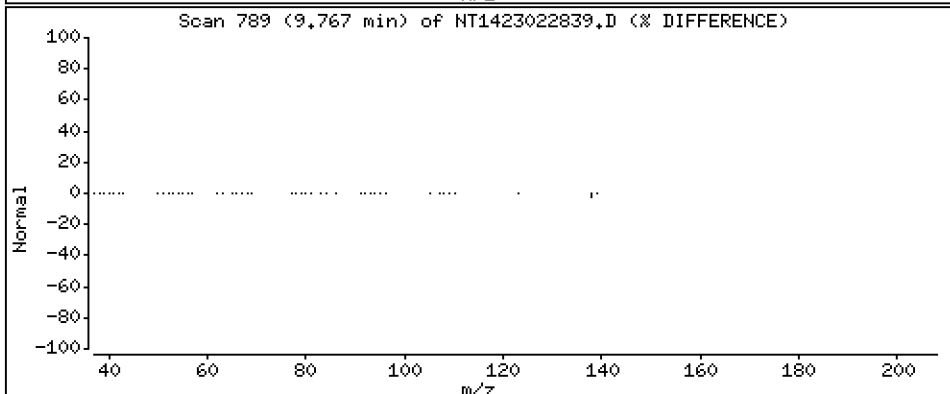
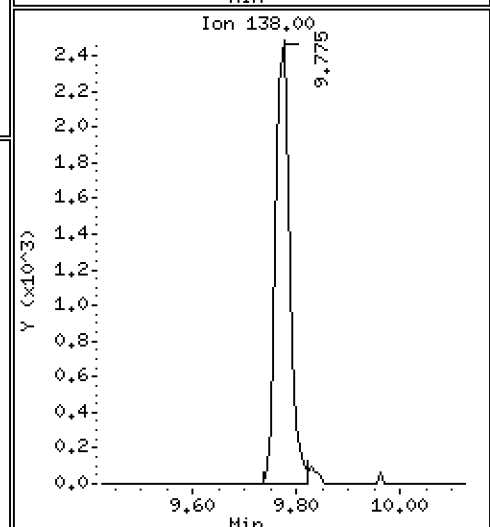
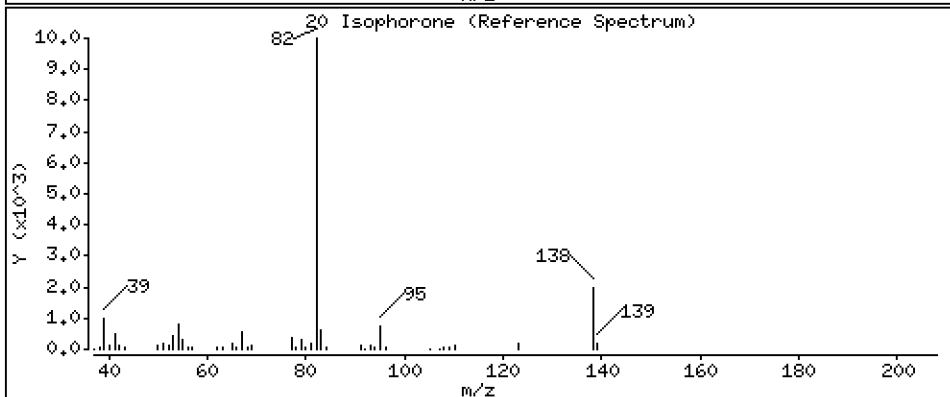
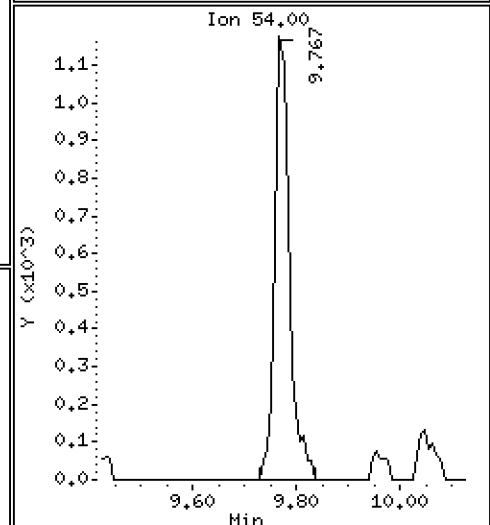
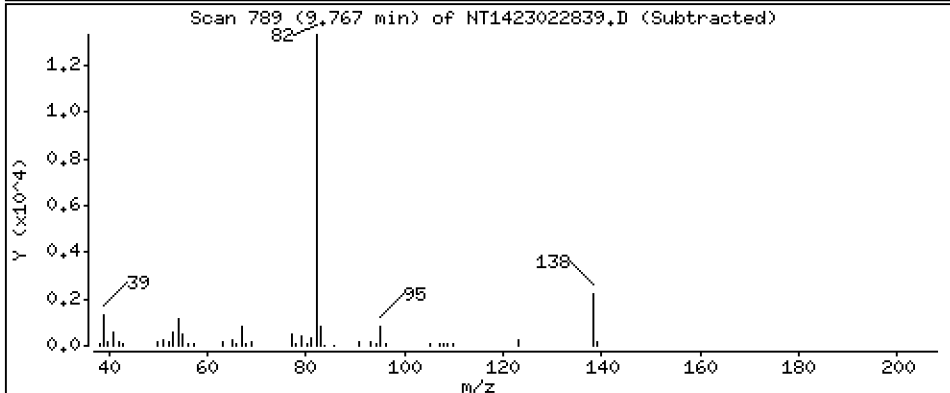
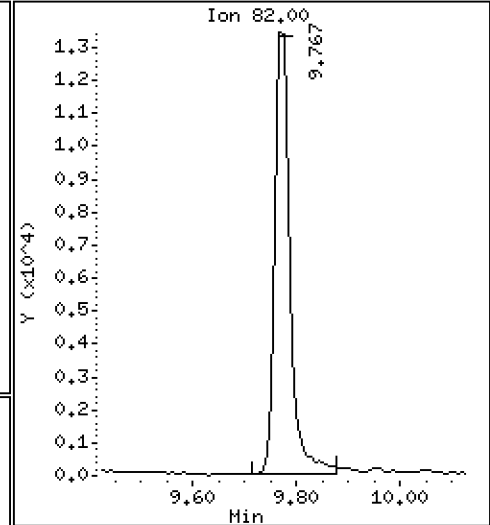
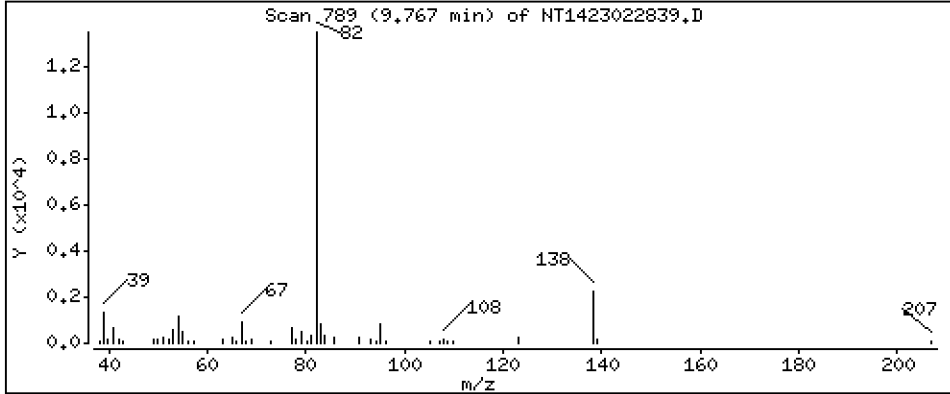
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

20 Isophorone

Concentration: 0.4431 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

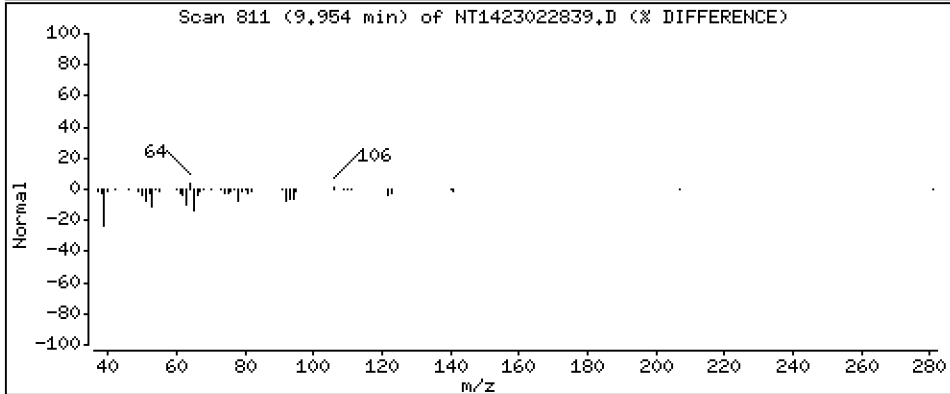
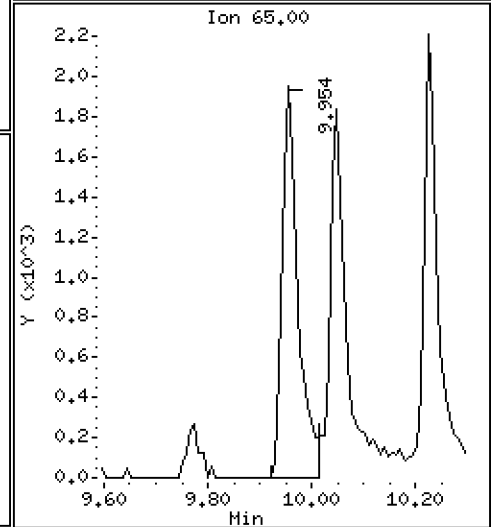
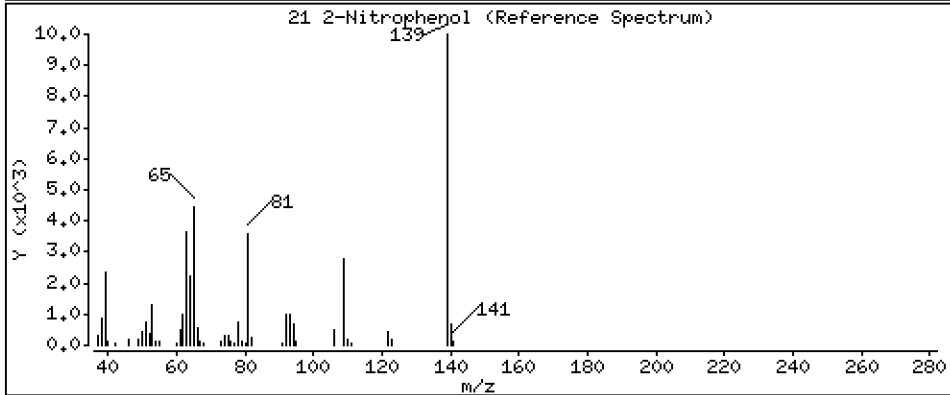
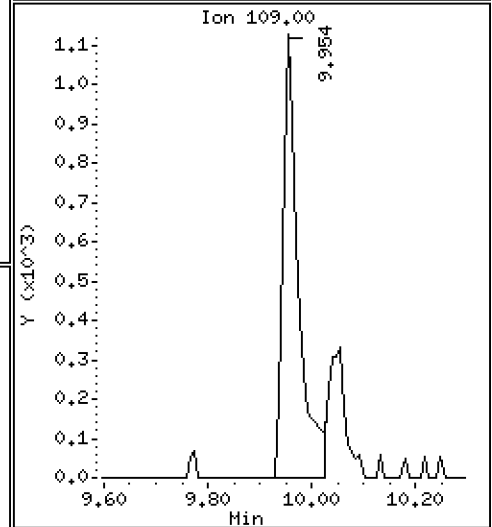
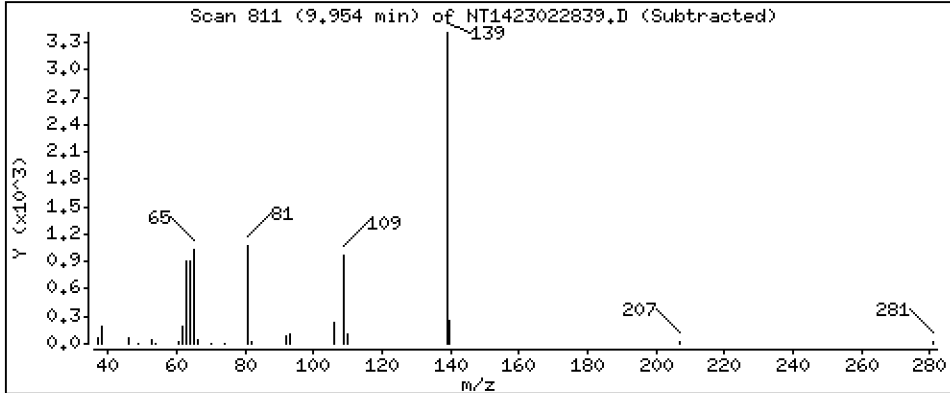
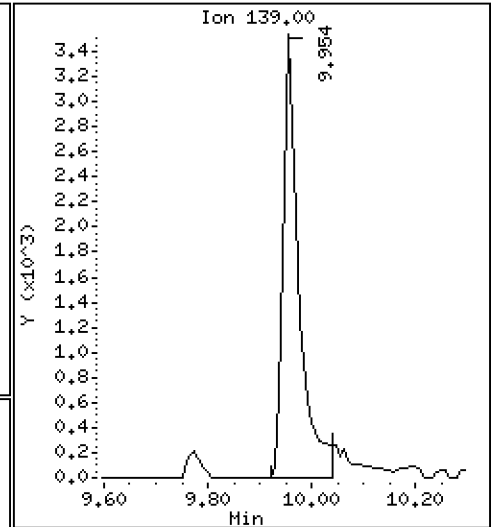
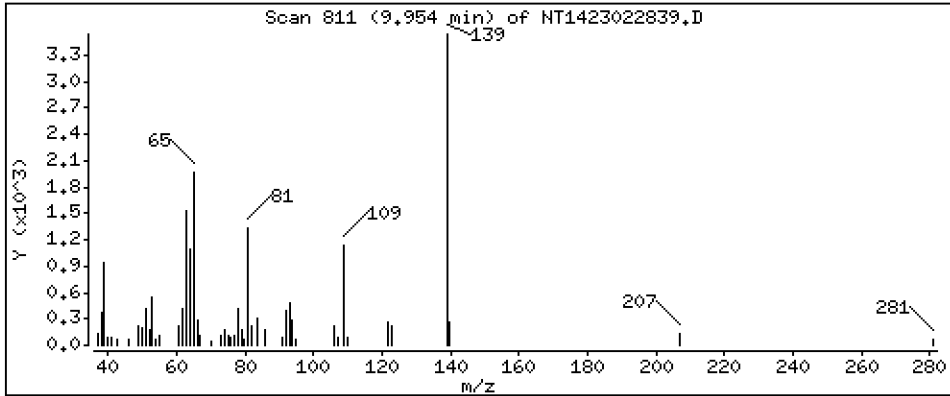
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

21 2-Nitrophenol

Concentration: 0,3848 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

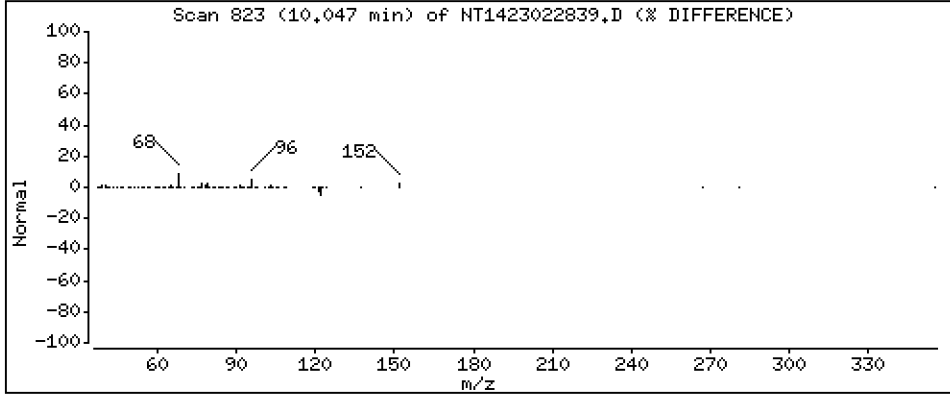
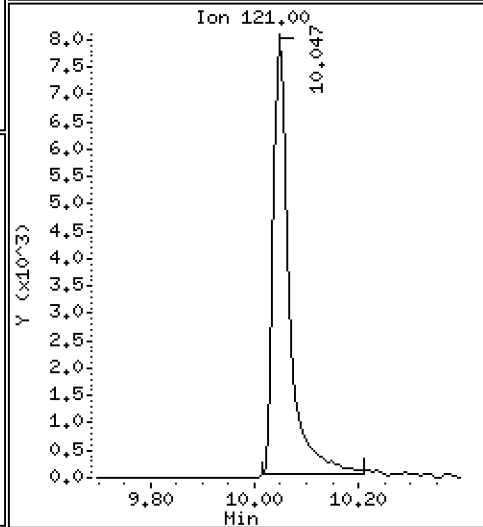
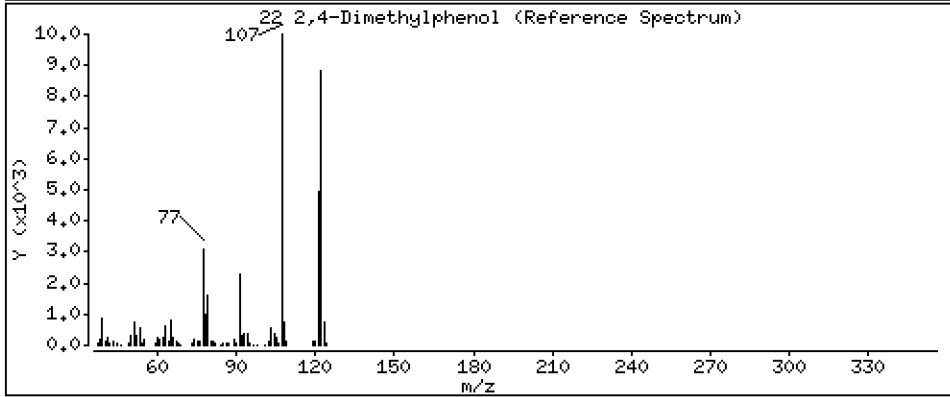
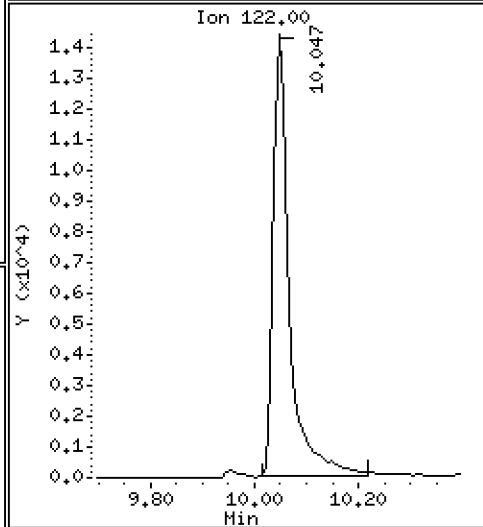
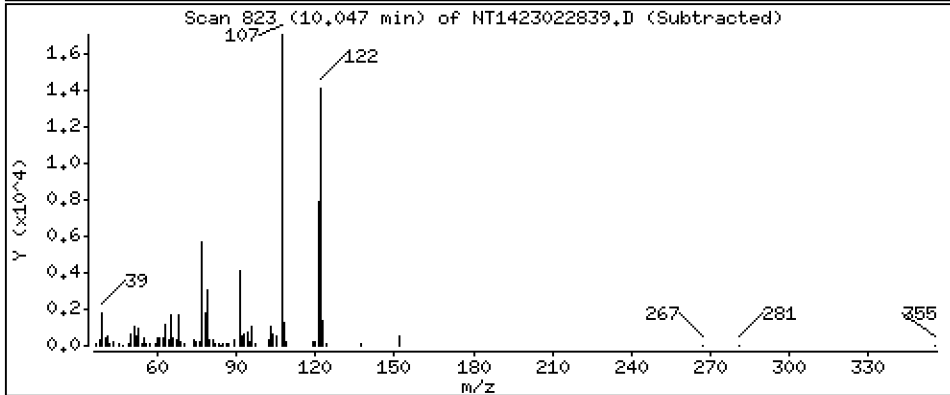
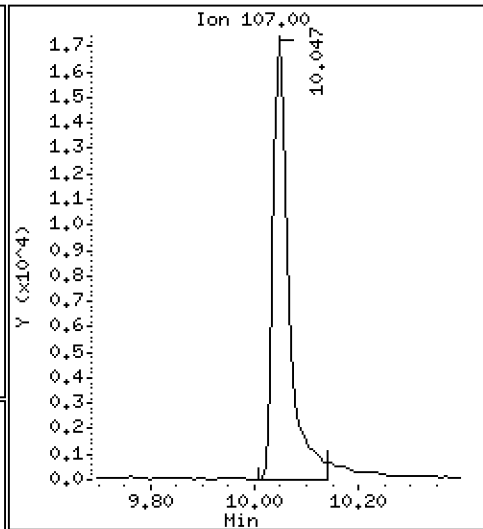
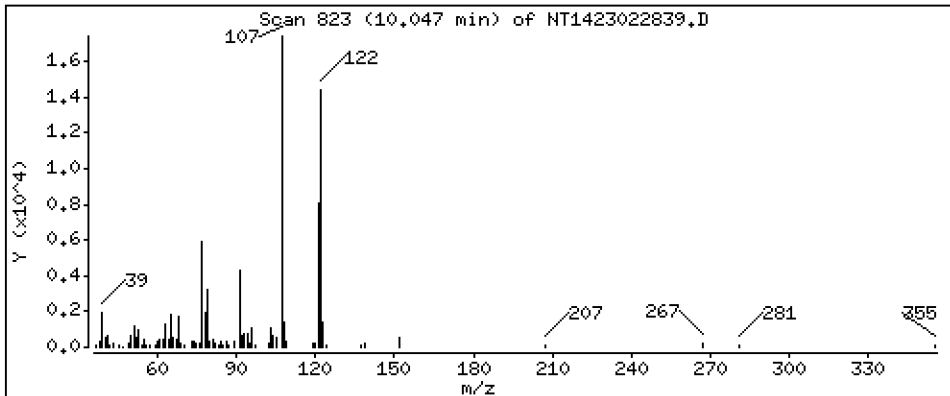
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 1,025 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

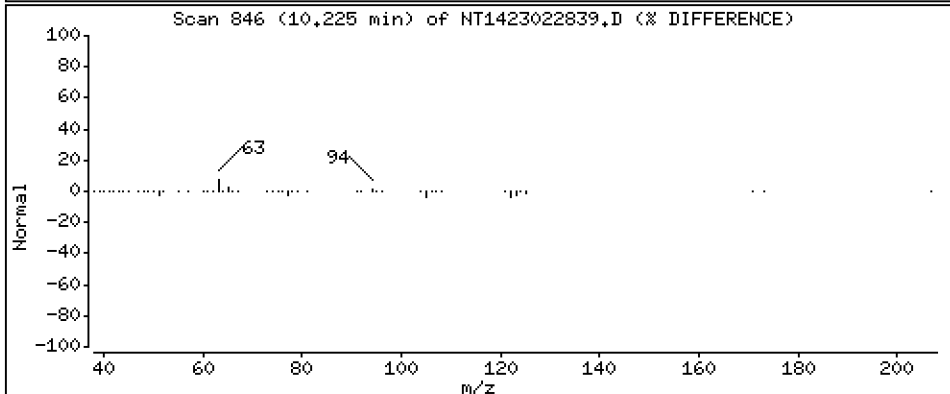
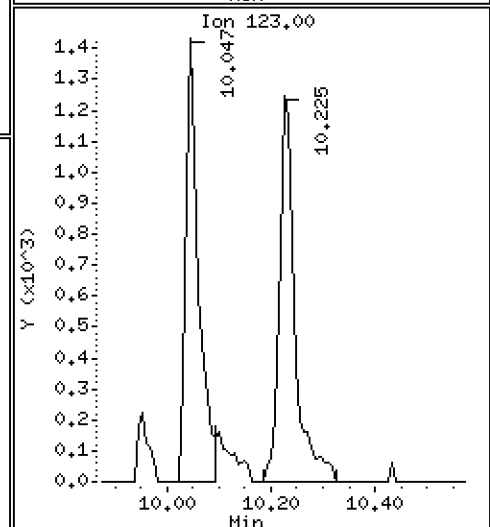
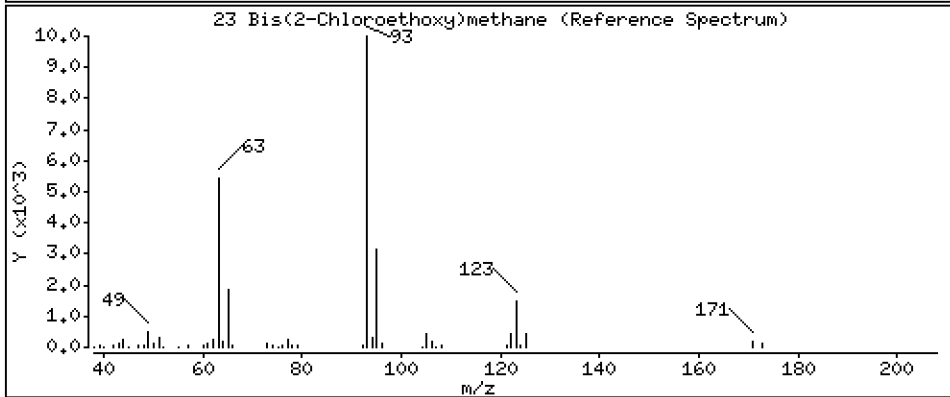
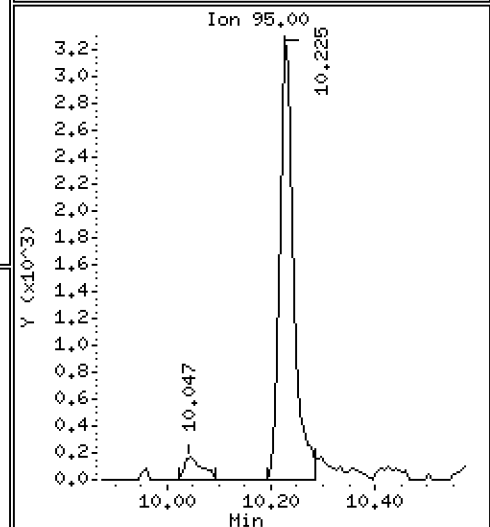
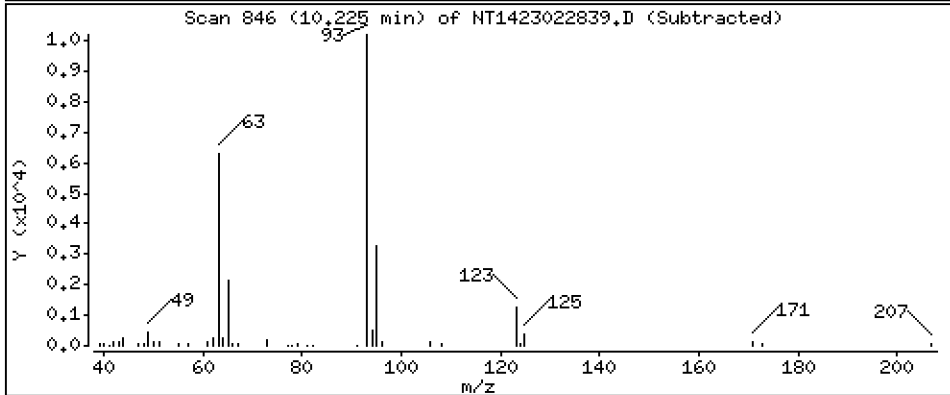
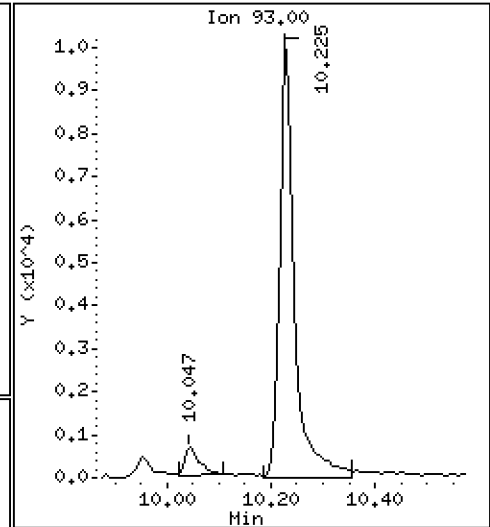
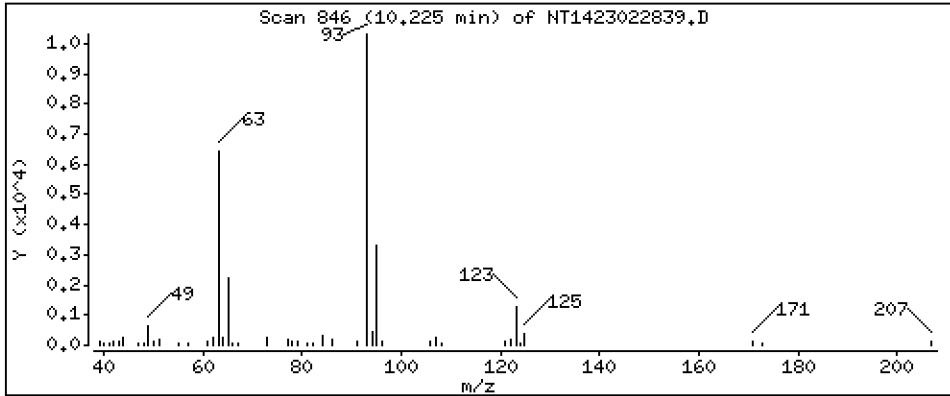
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

23 Bis(2-Chloroethoxy)methane

Concentration: 0.5299 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

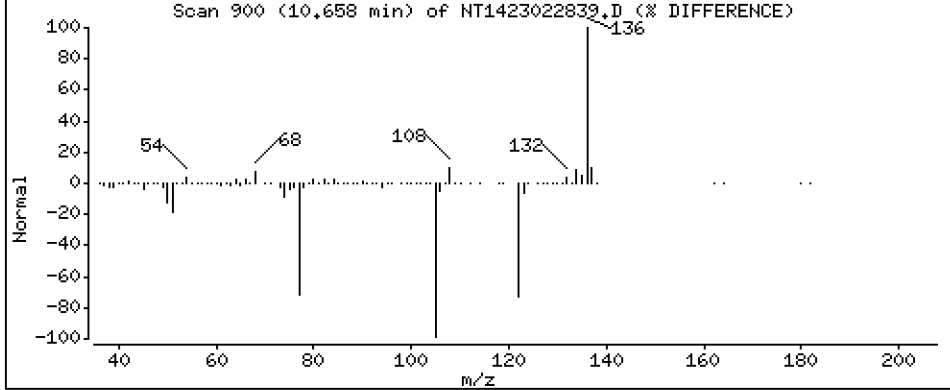
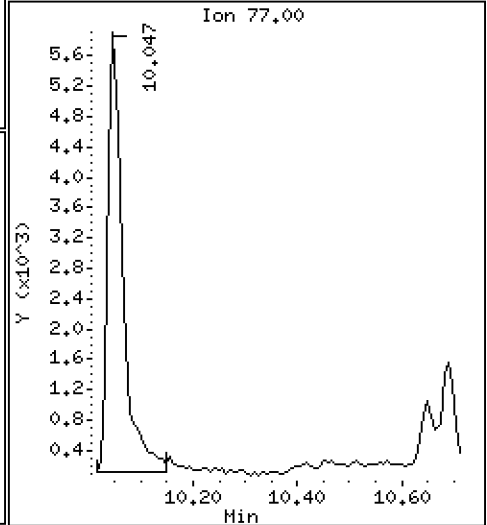
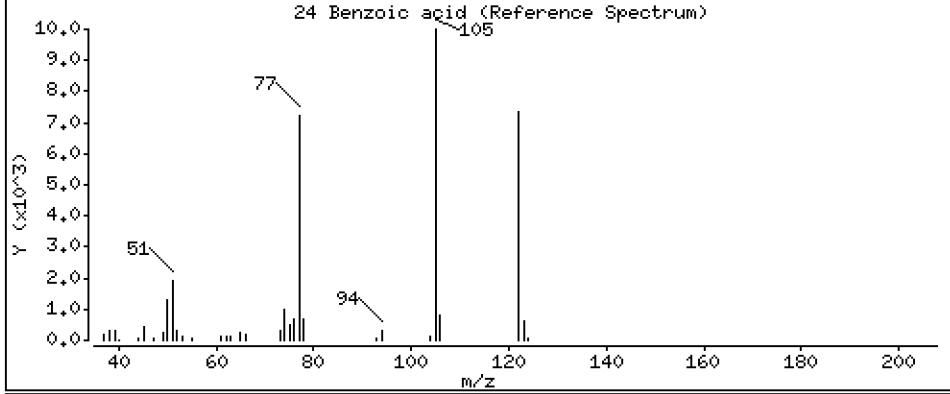
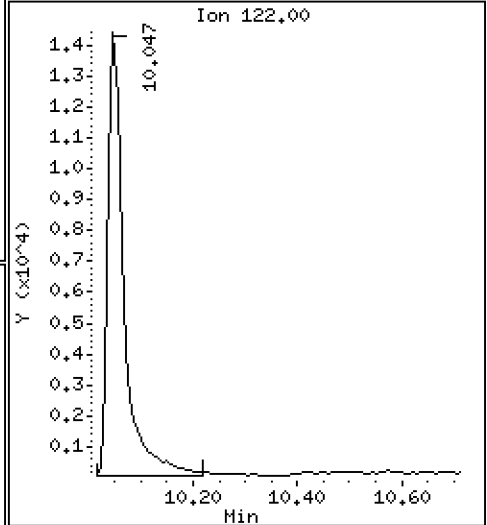
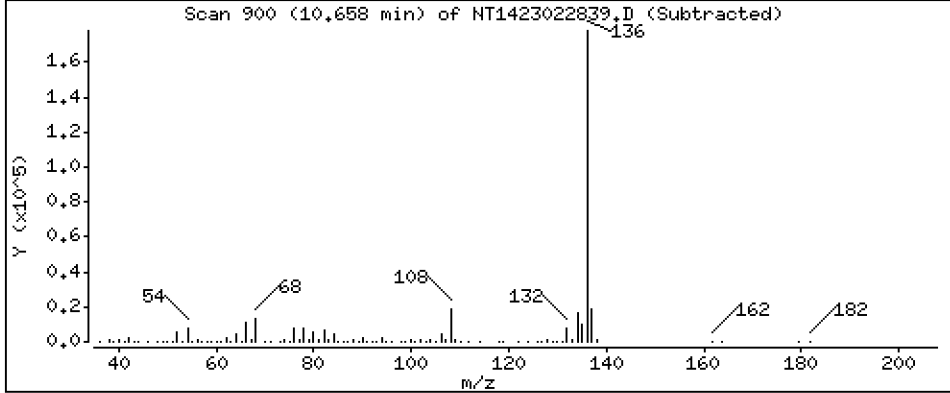
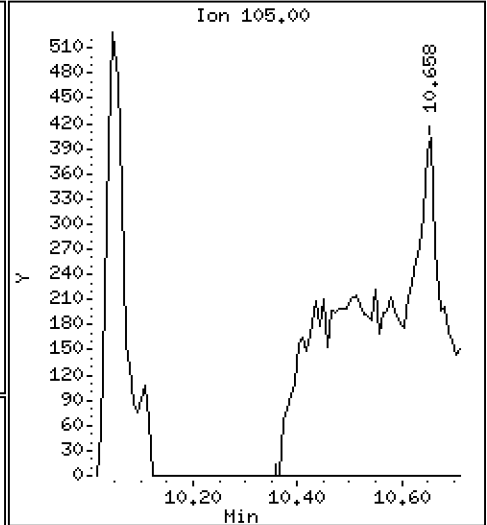
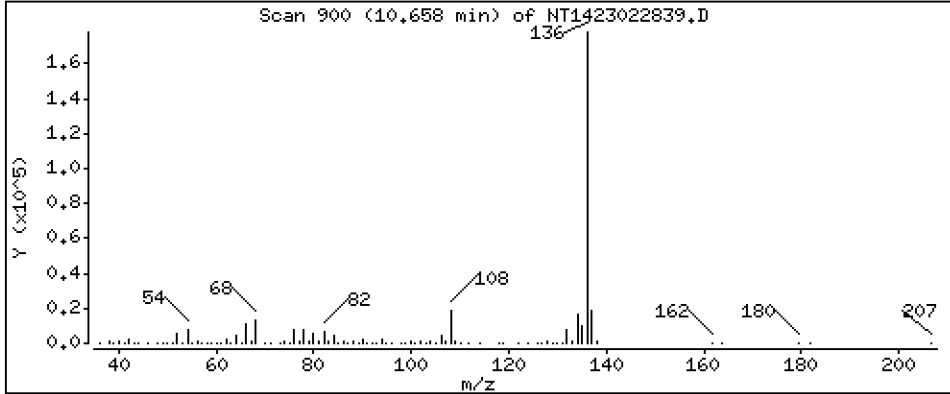
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

24 Benzoic acid

Concentration: 0,9092 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

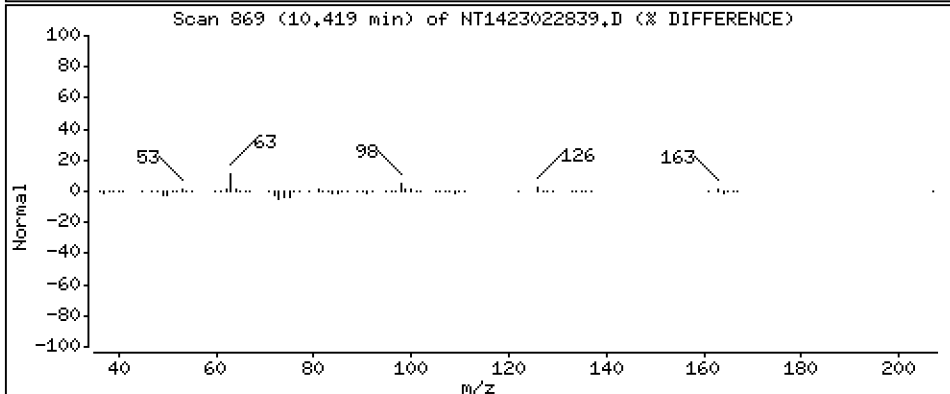
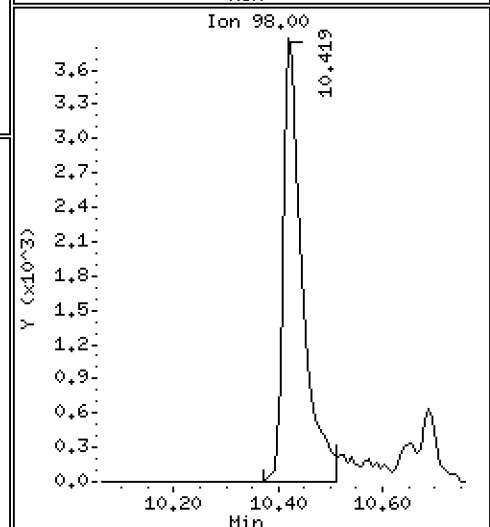
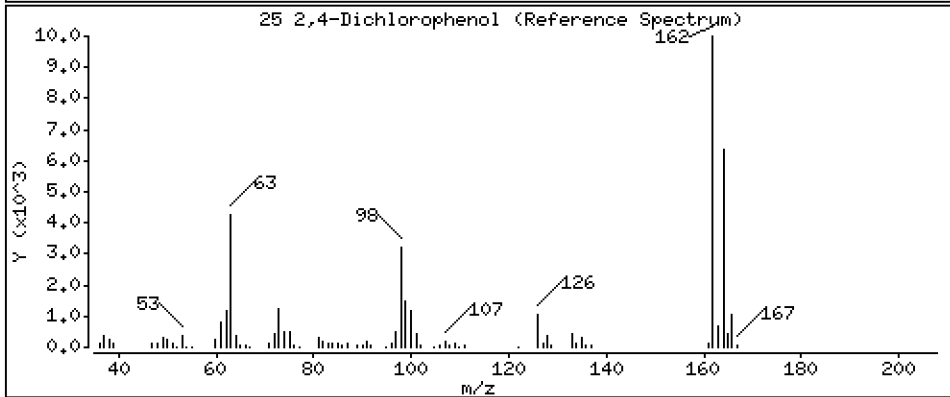
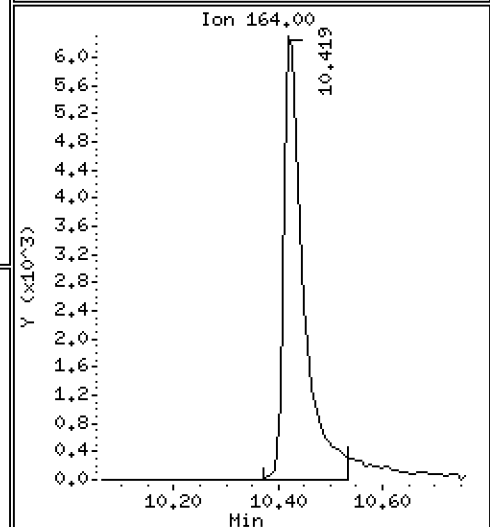
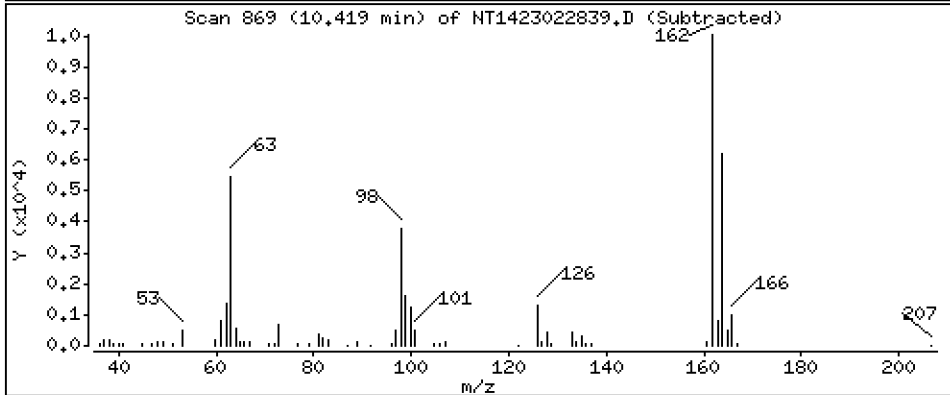
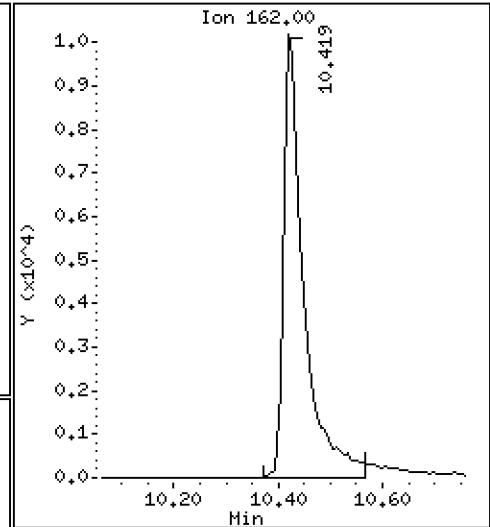
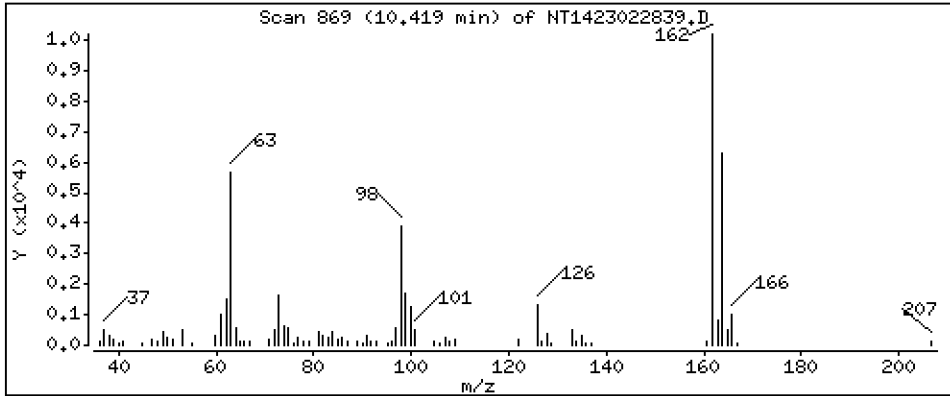
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 0,8740 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

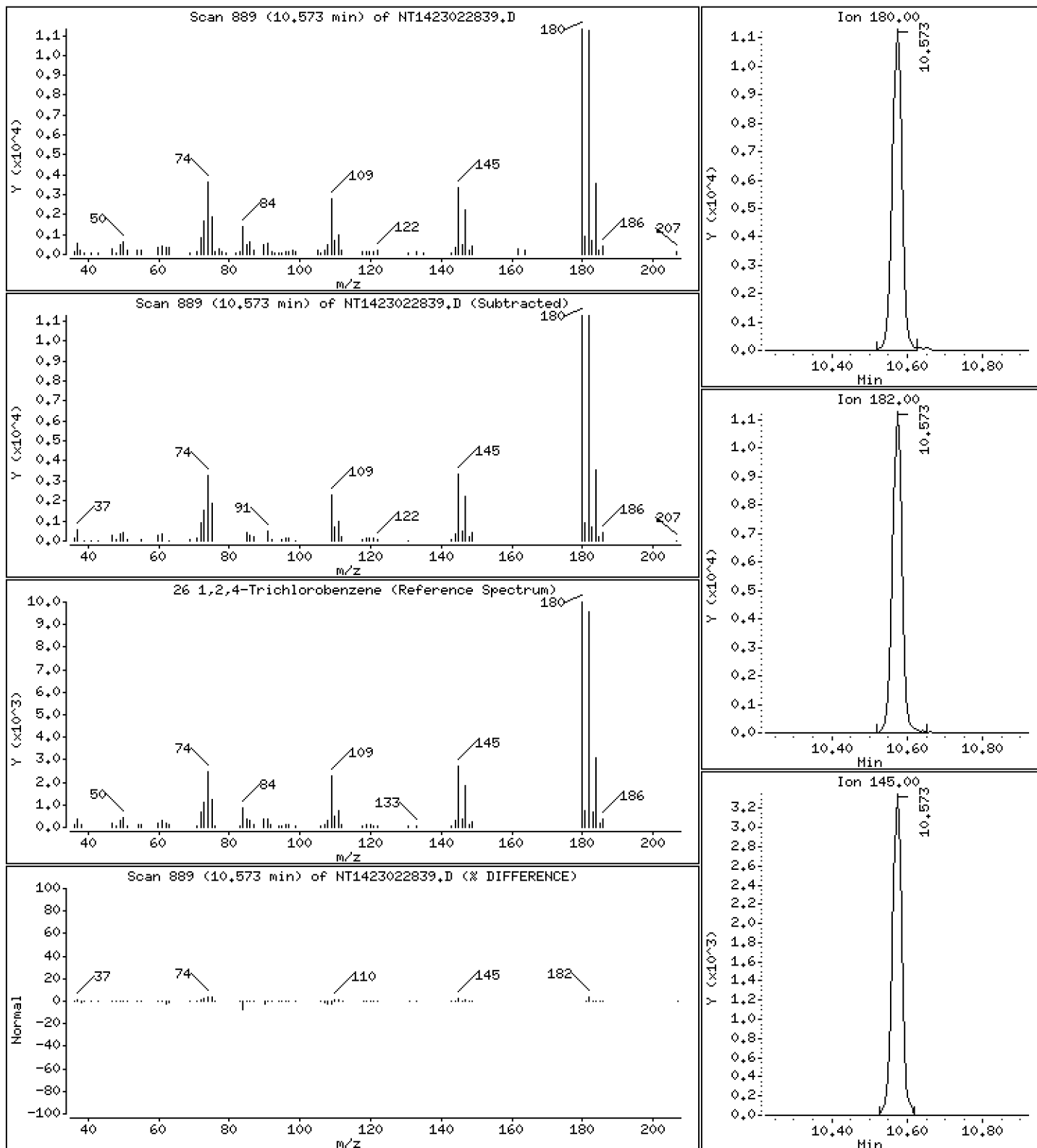
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 0,4967 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

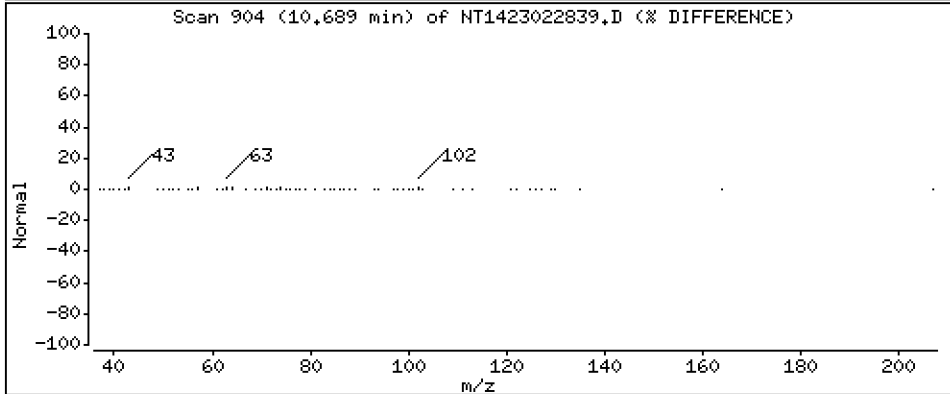
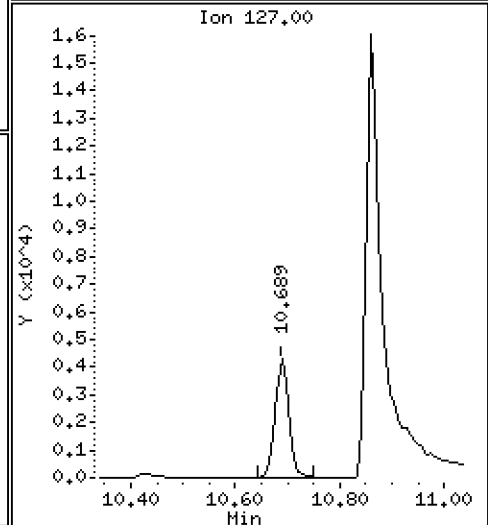
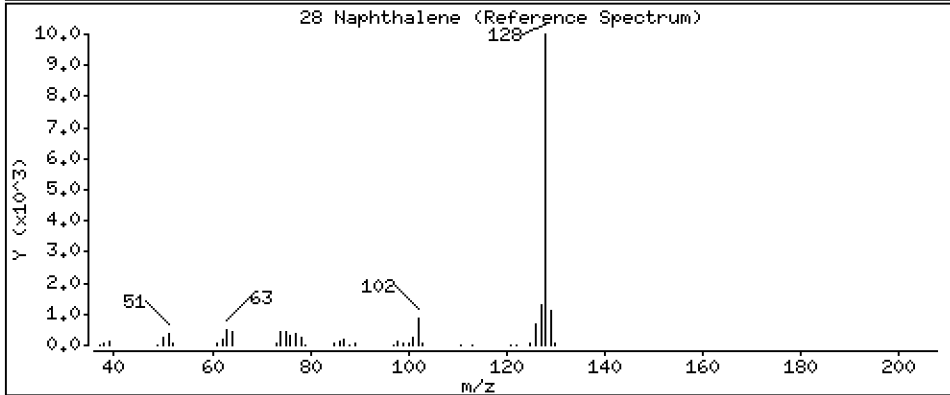
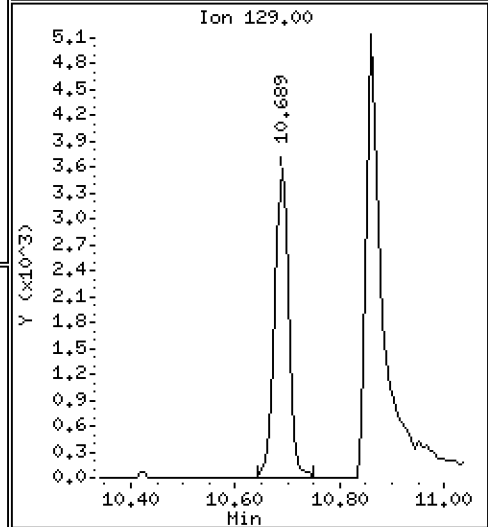
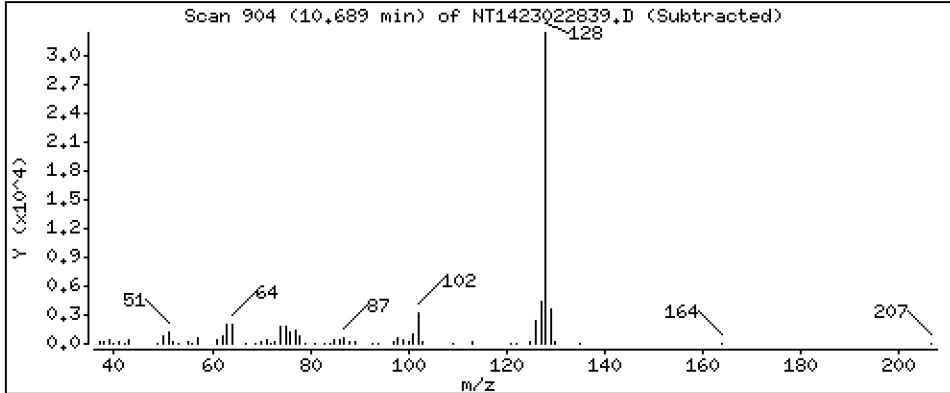
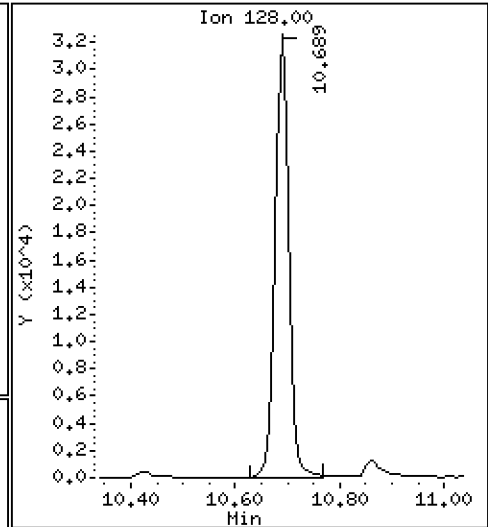
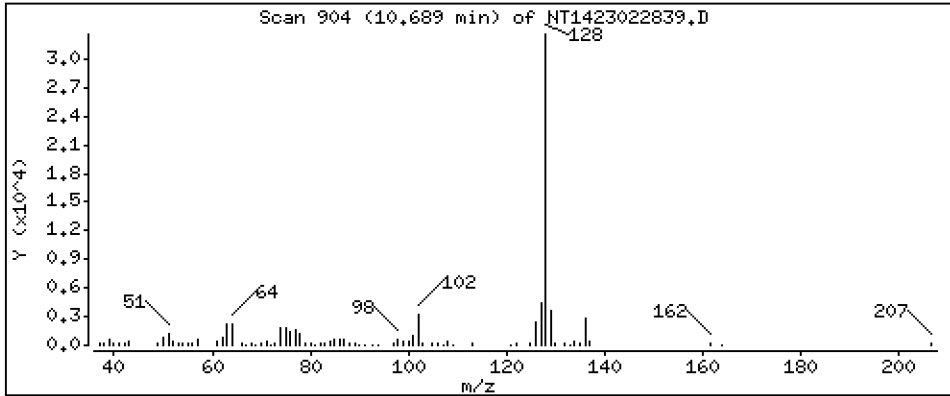
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 0,5257 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

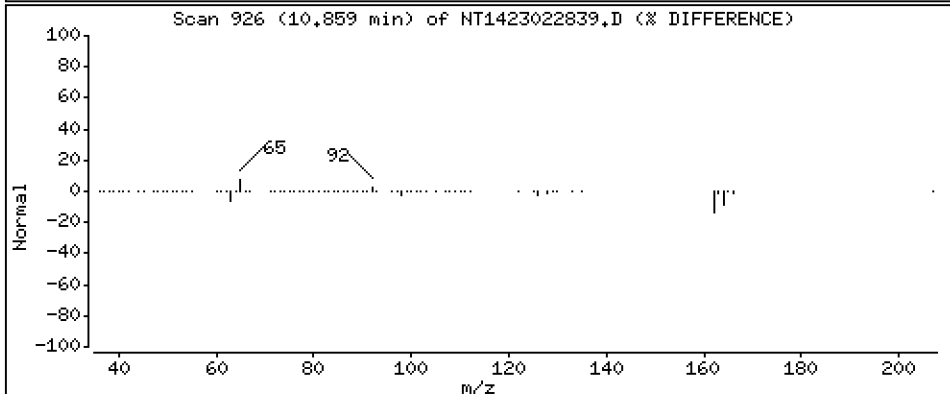
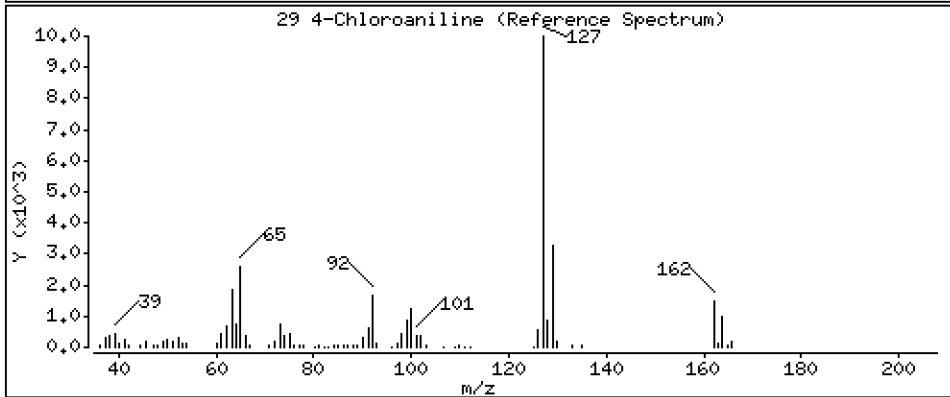
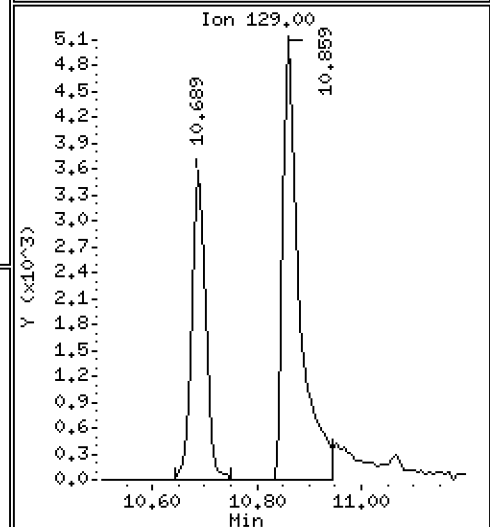
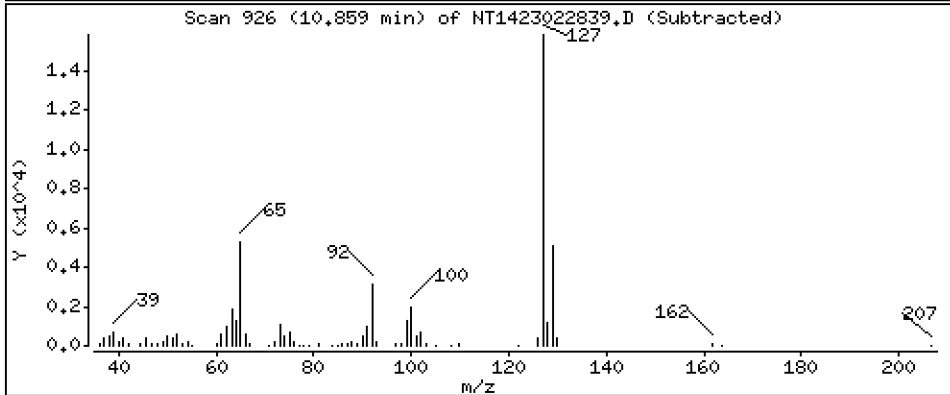
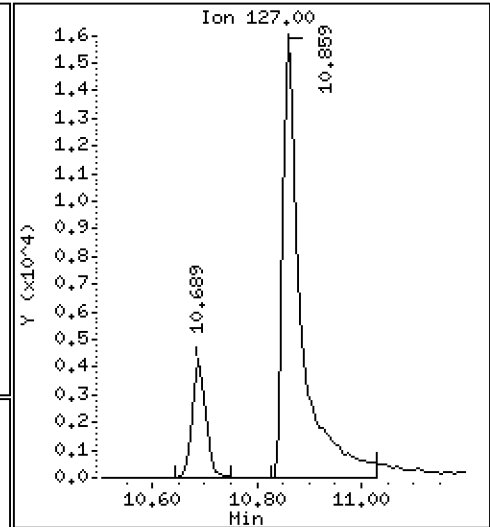
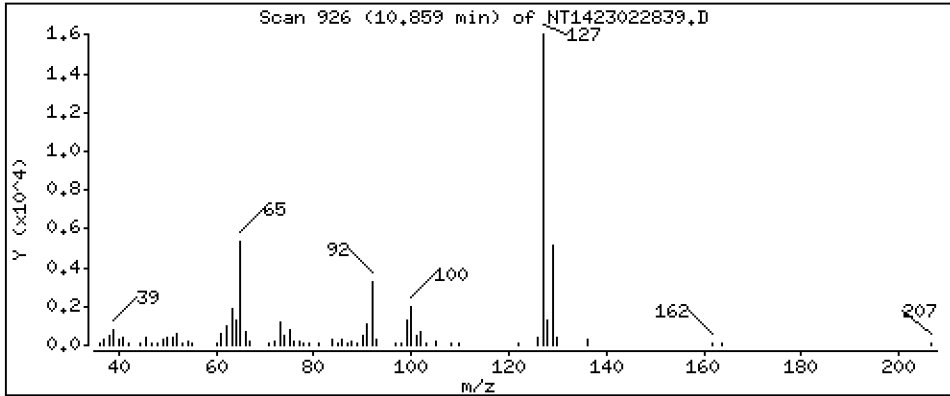
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

29 4-Chloroaniline

Concentration: 0,8967 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

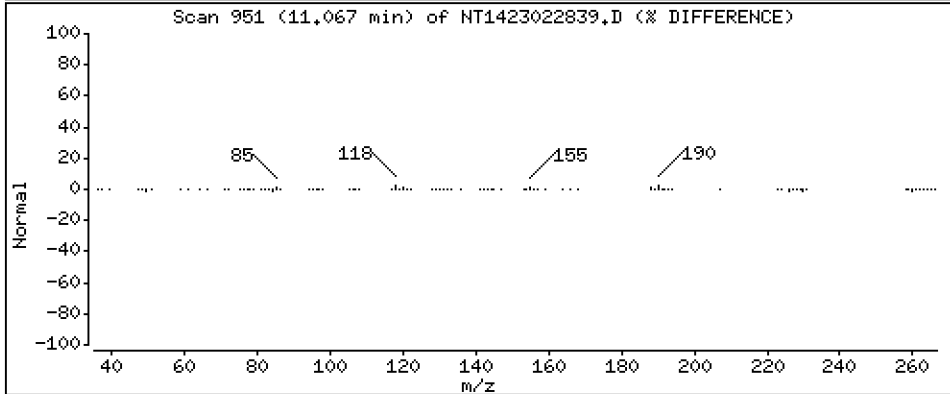
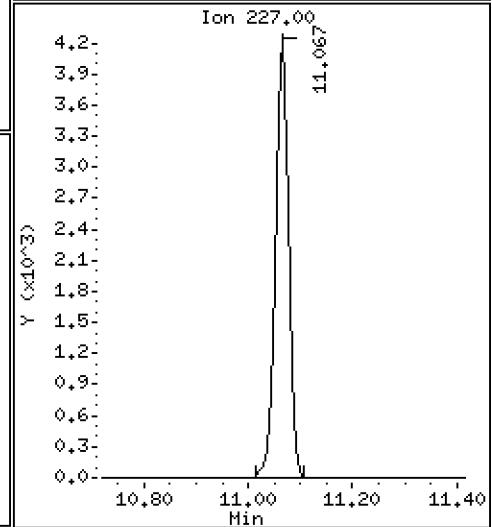
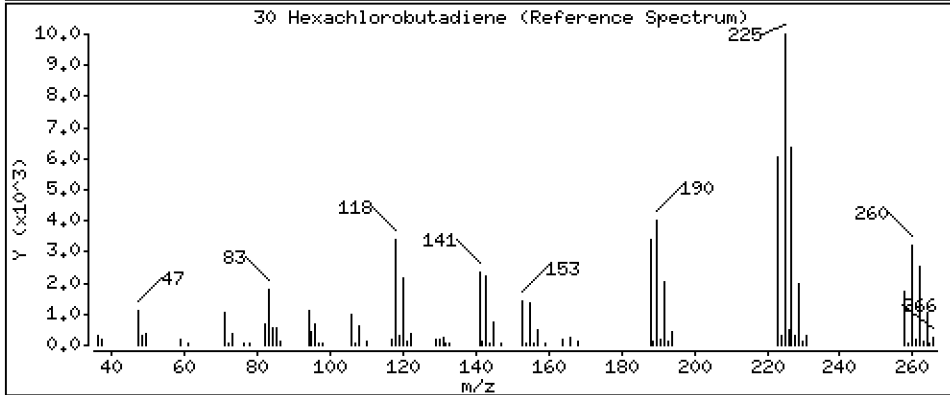
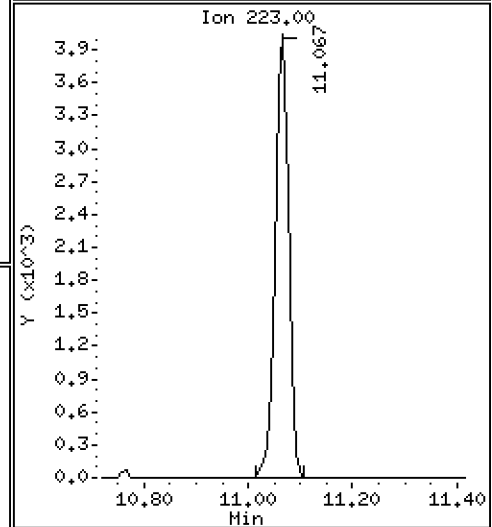
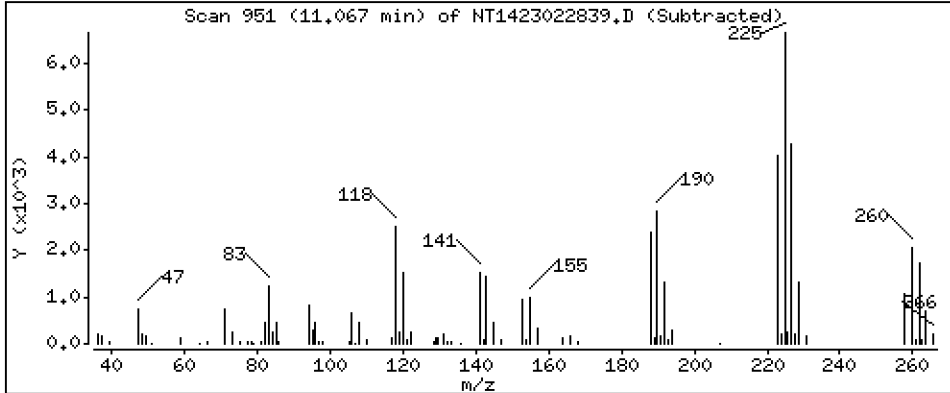
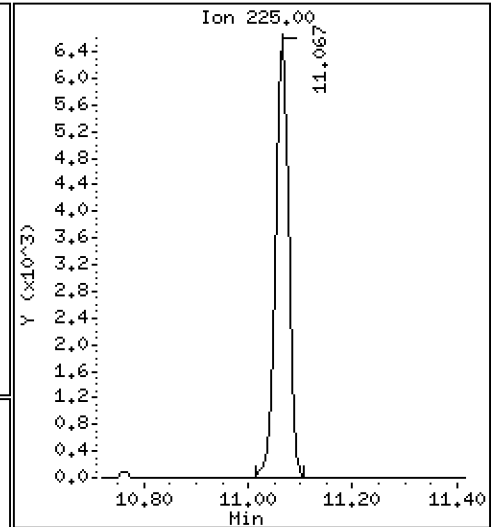
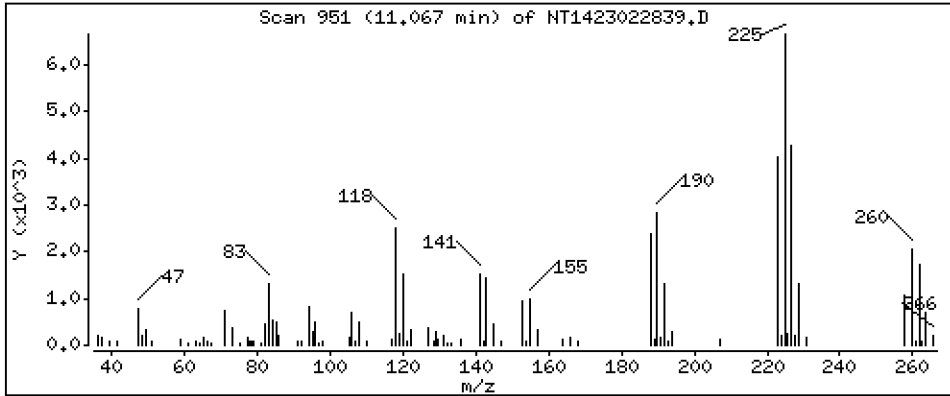
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 0,4614 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

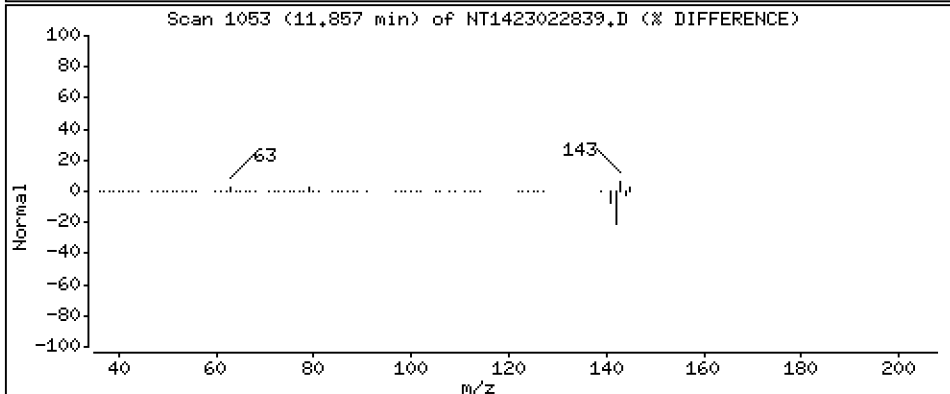
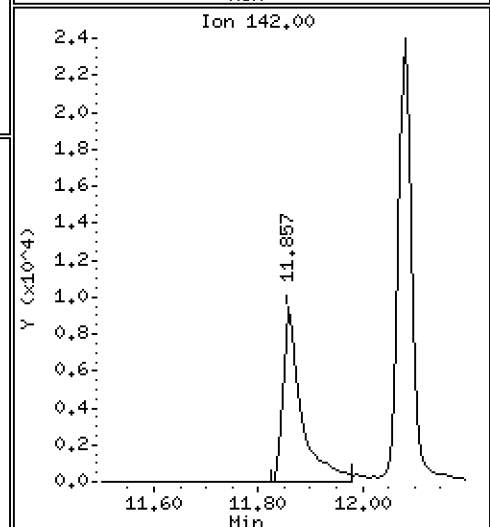
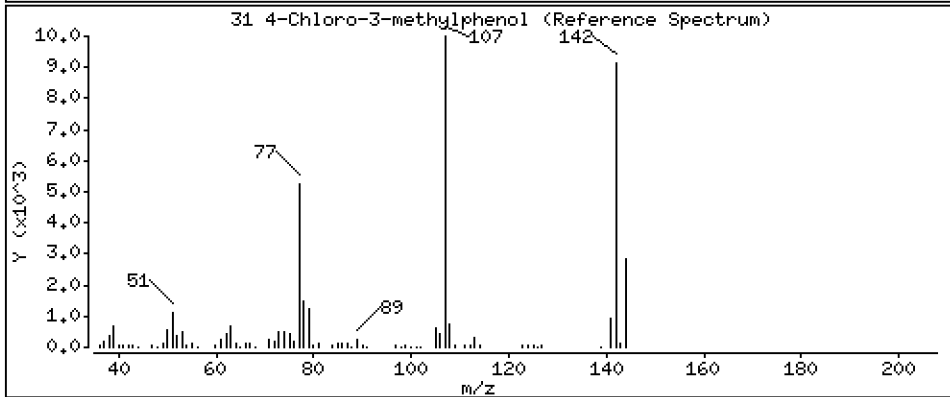
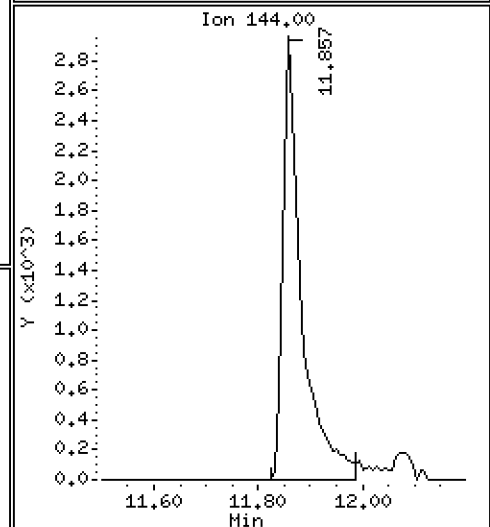
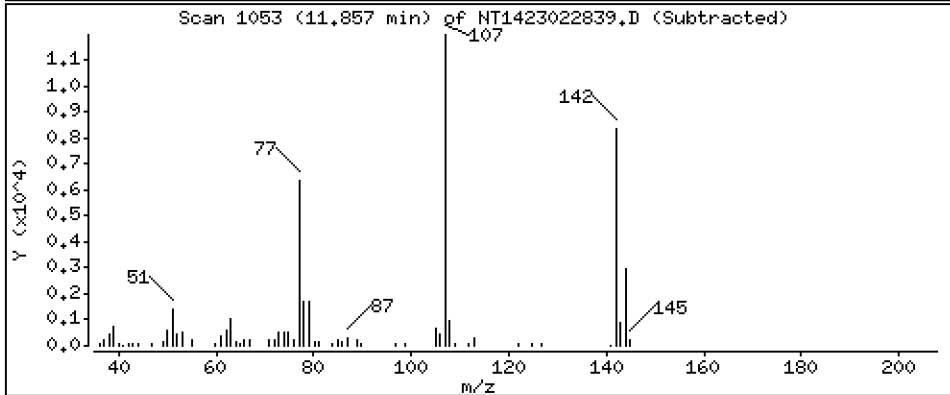
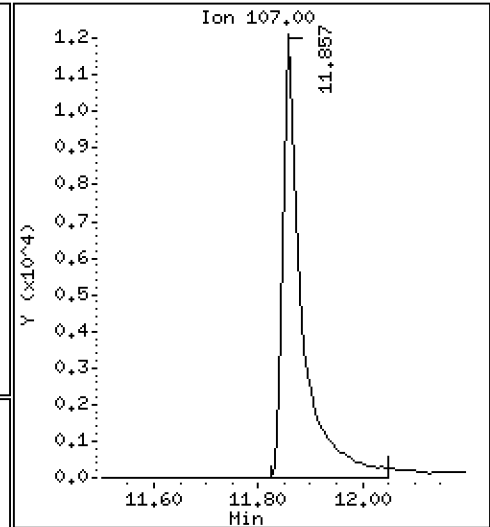
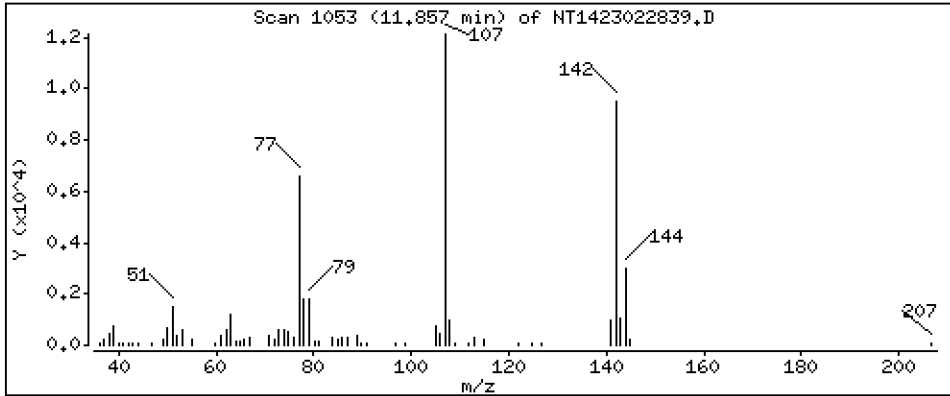
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

31 4-Chloro-3-methylphenol

Concentration: 0.9960 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

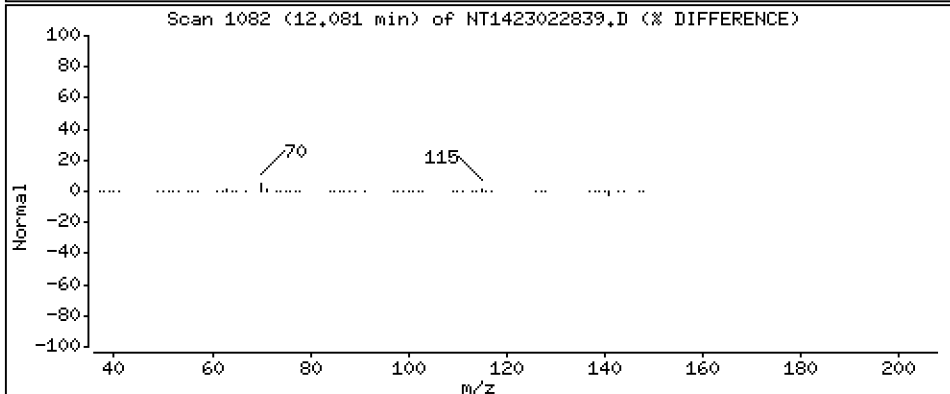
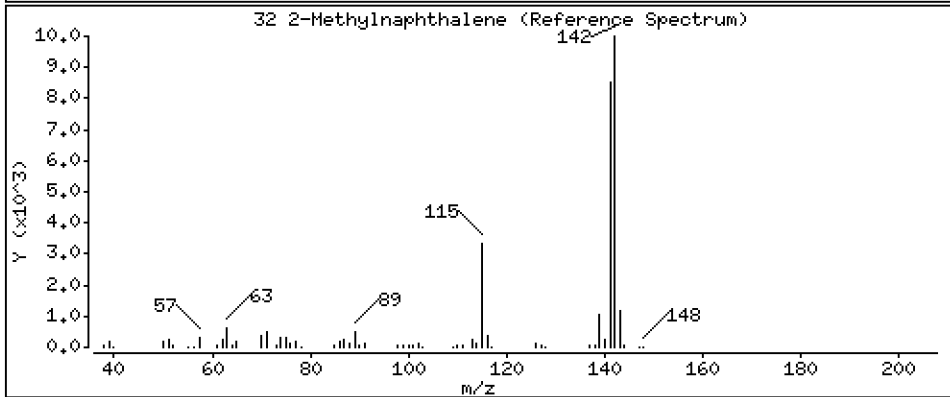
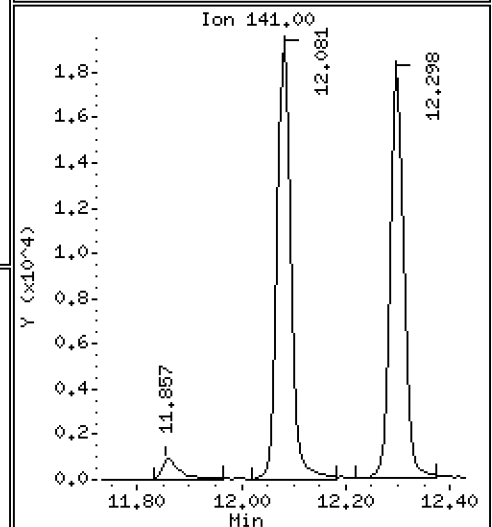
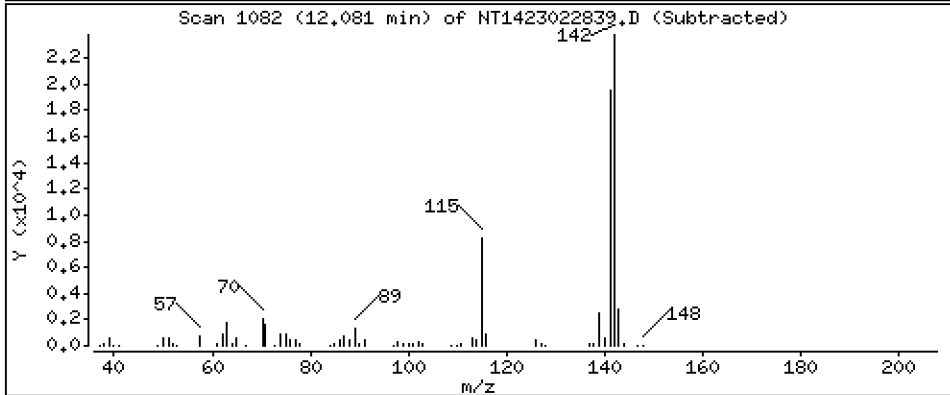
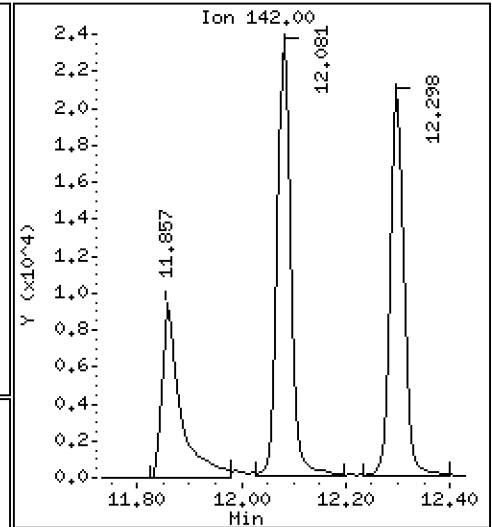
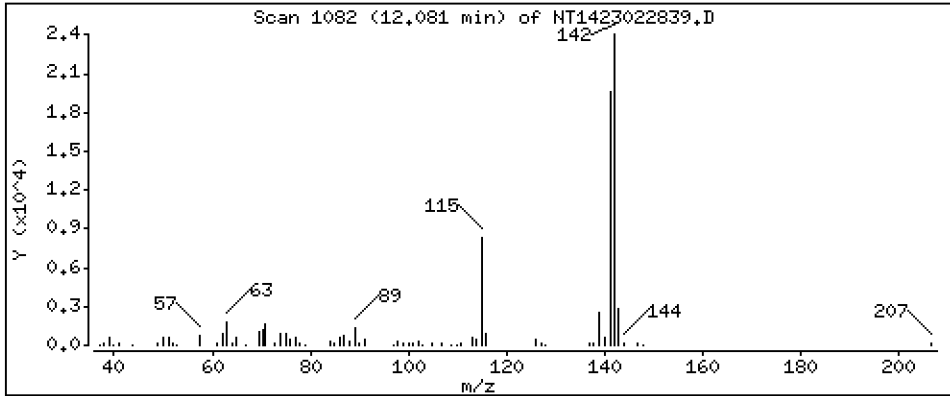
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 0,5142 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

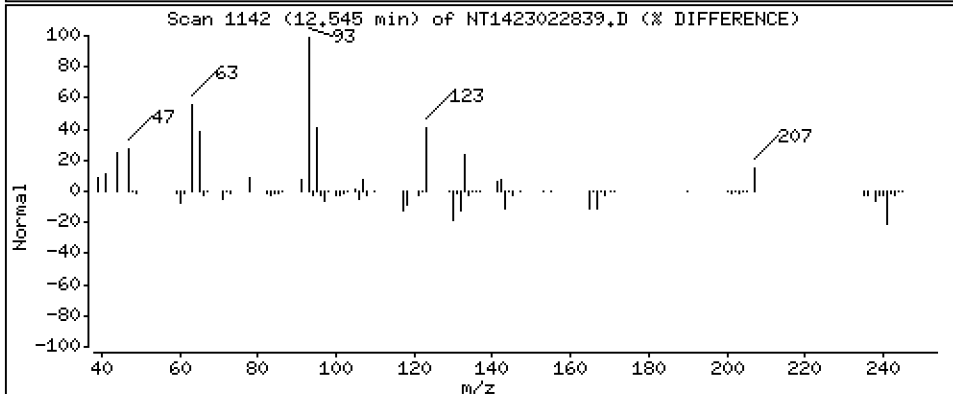
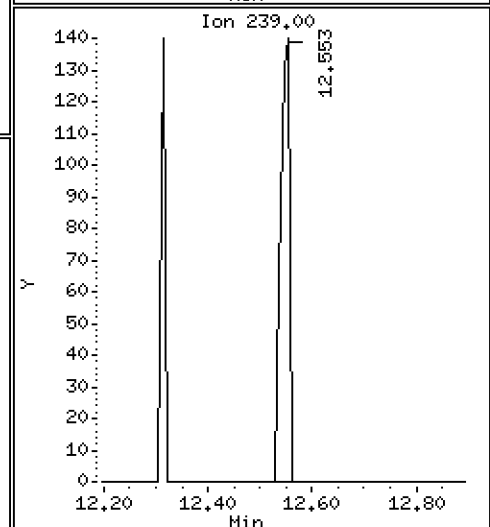
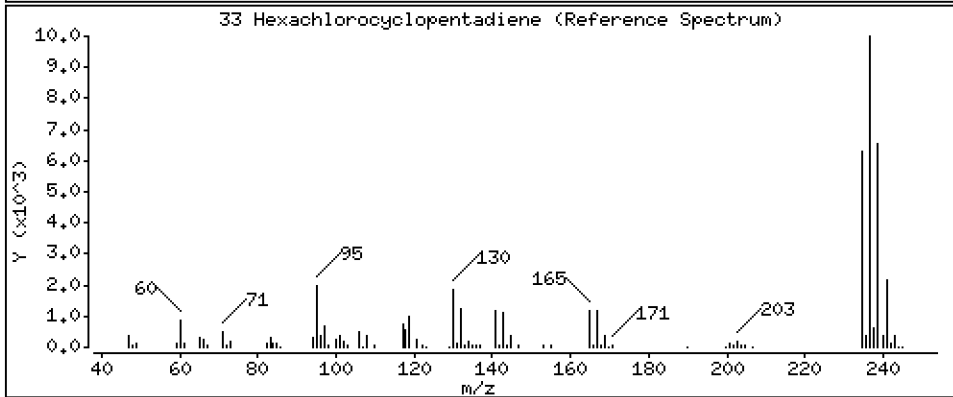
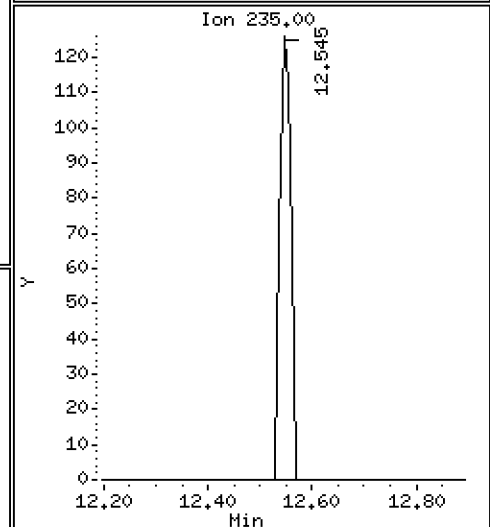
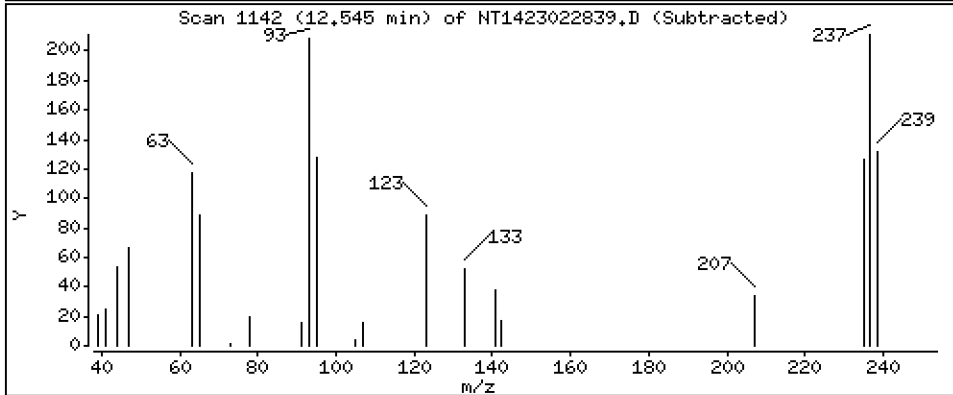
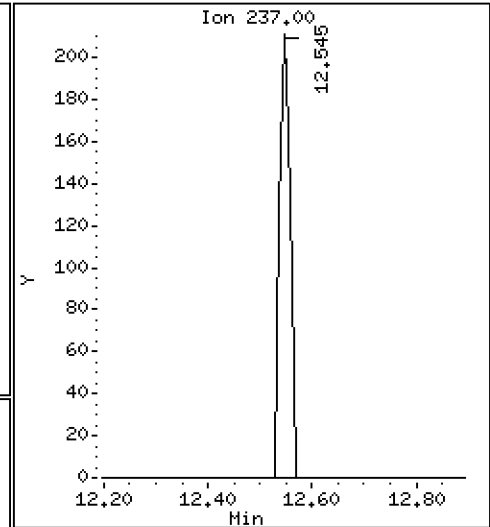
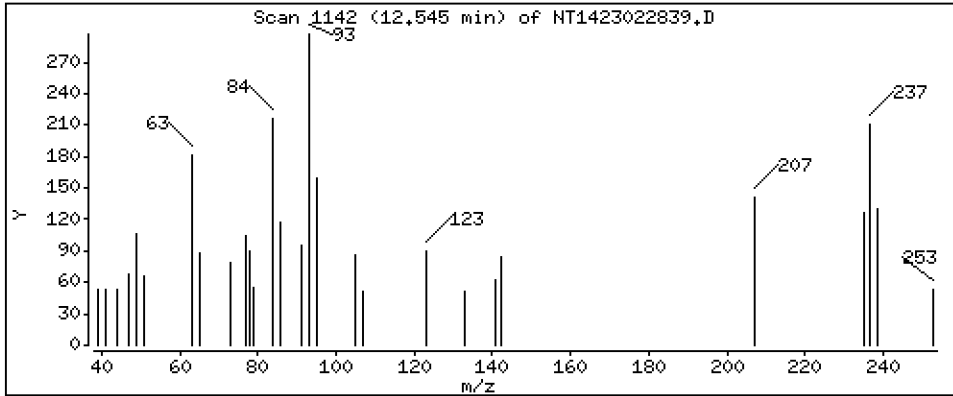
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

33 Hexachlorocyclopentadiene

Concentration: 0,01142 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

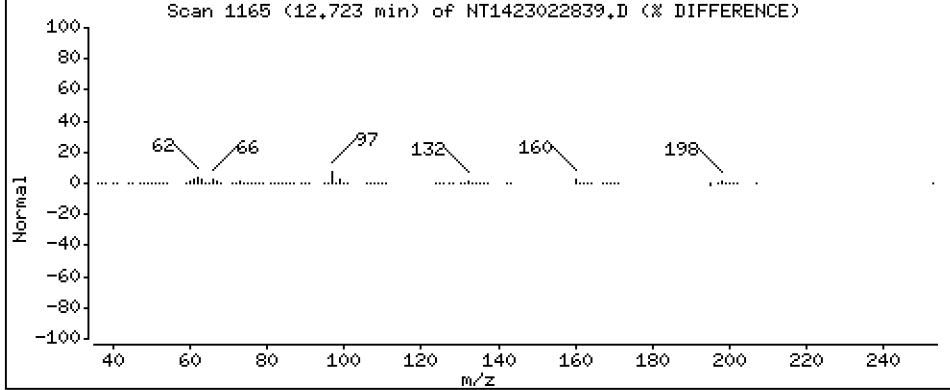
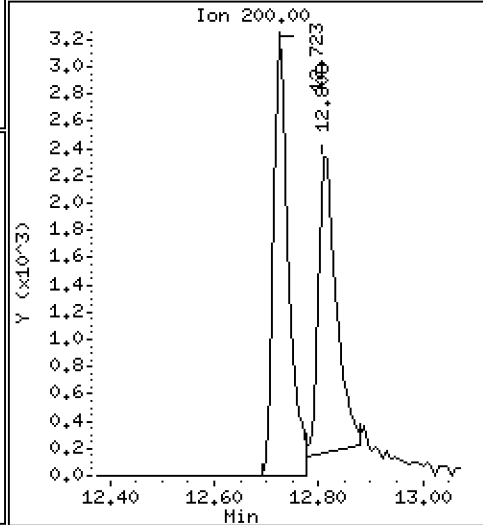
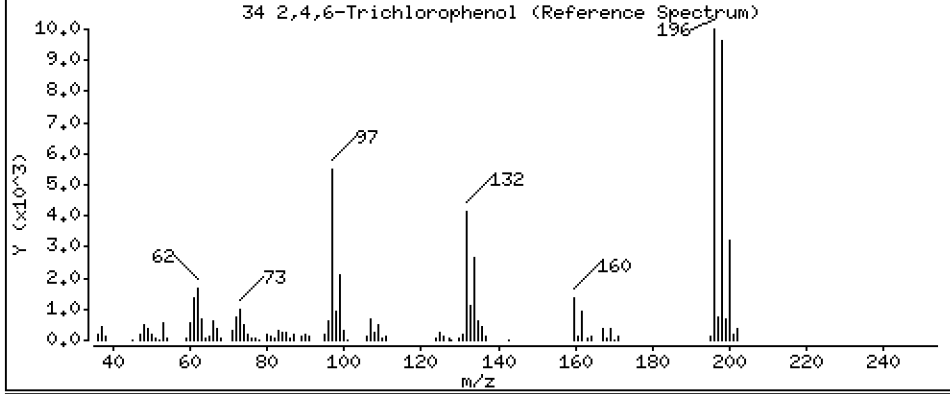
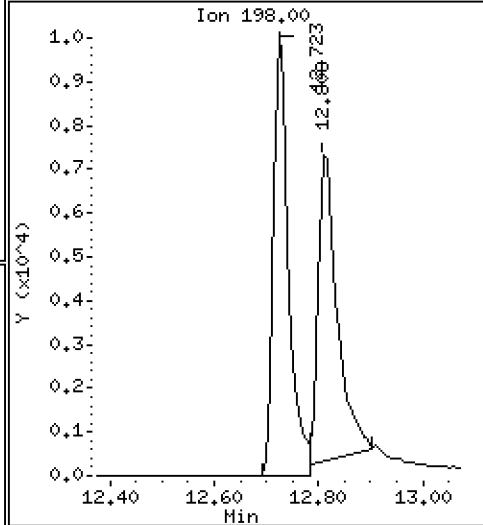
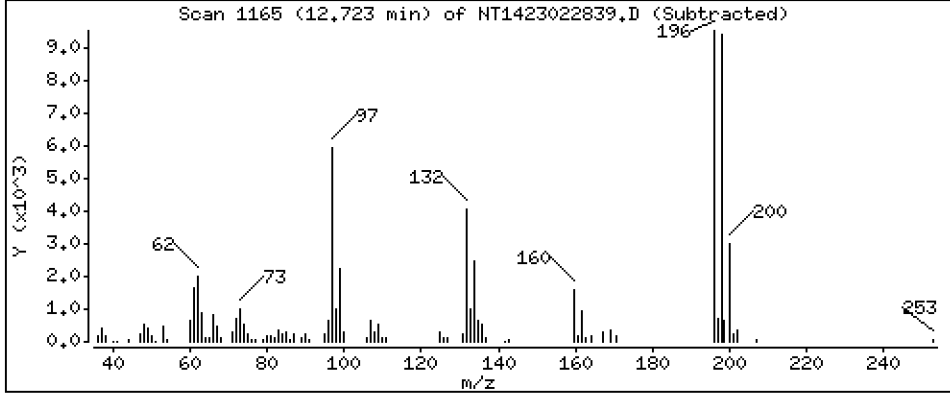
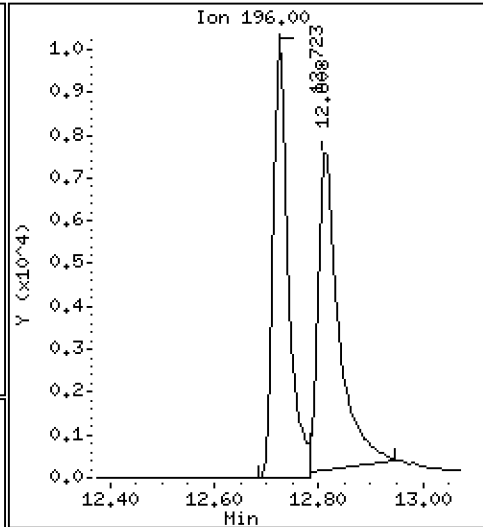
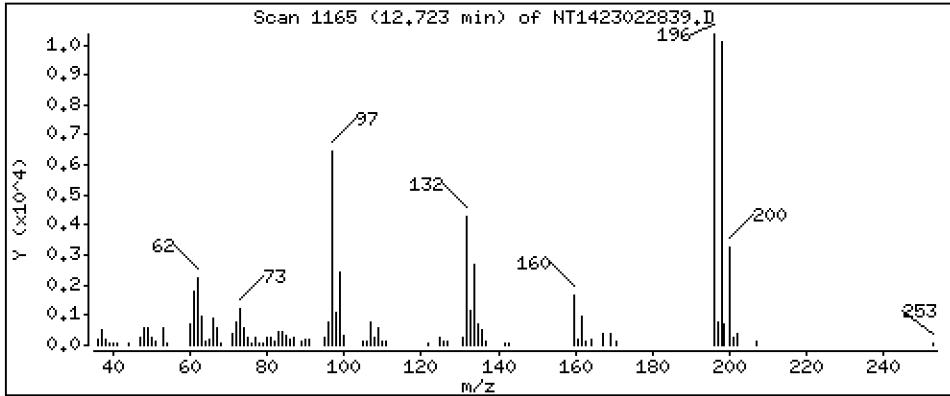
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

34 2,4,6-Trichlorophenol

Concentration: 0.8898 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

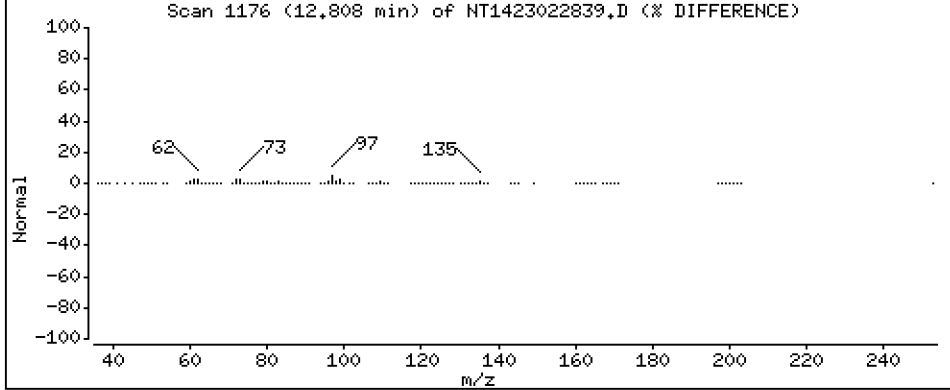
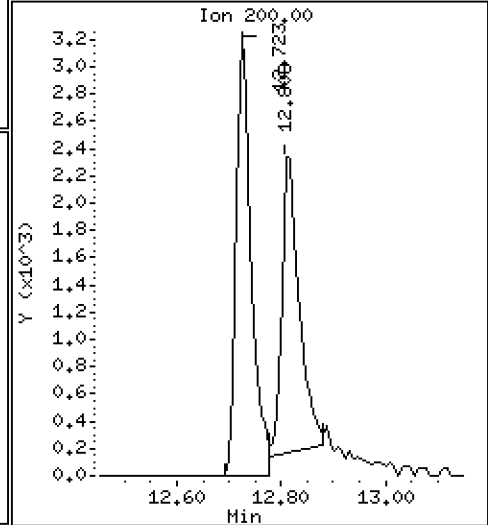
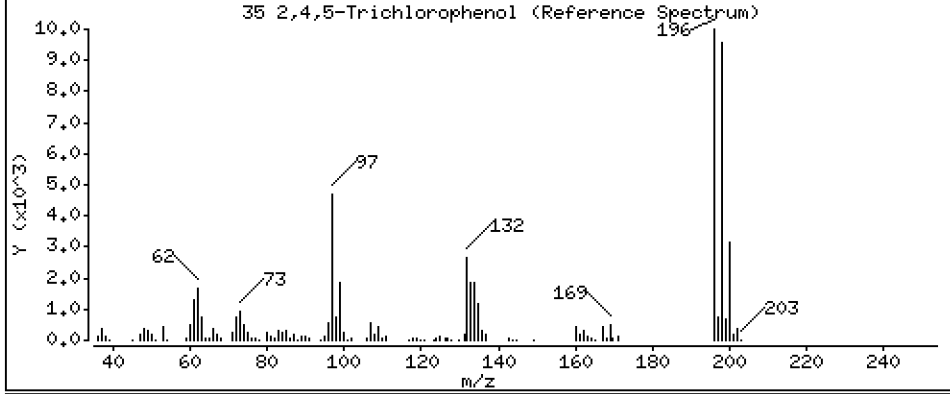
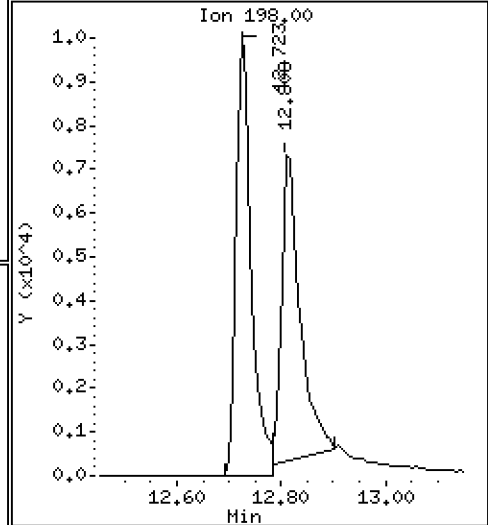
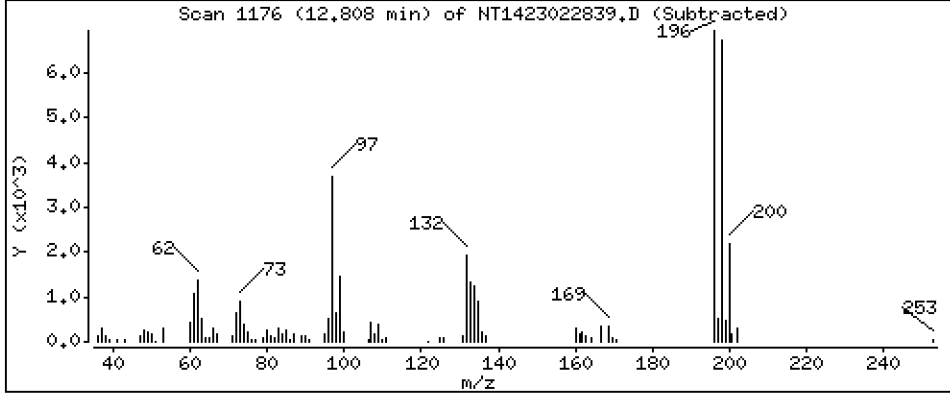
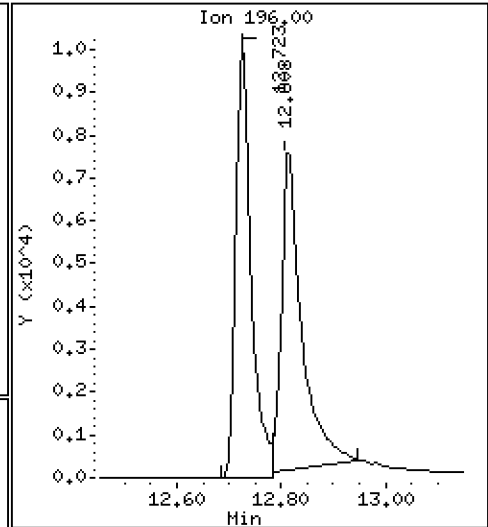
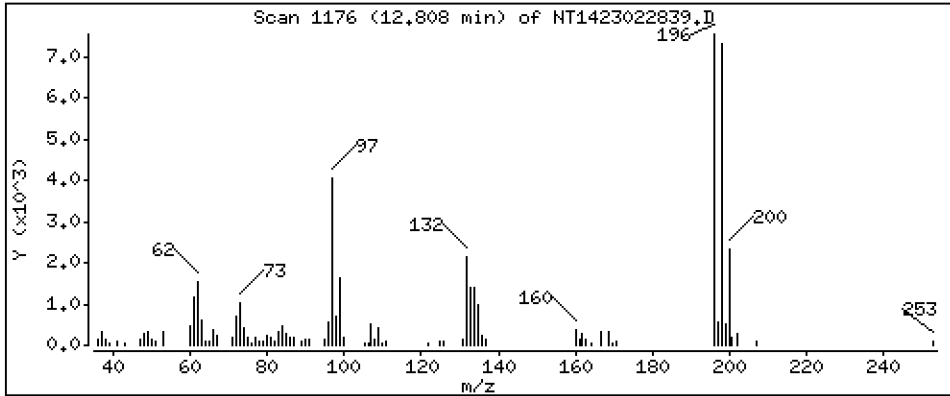
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

35 2,4,5-Trichlorophenol

Concentration: 0,8232 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

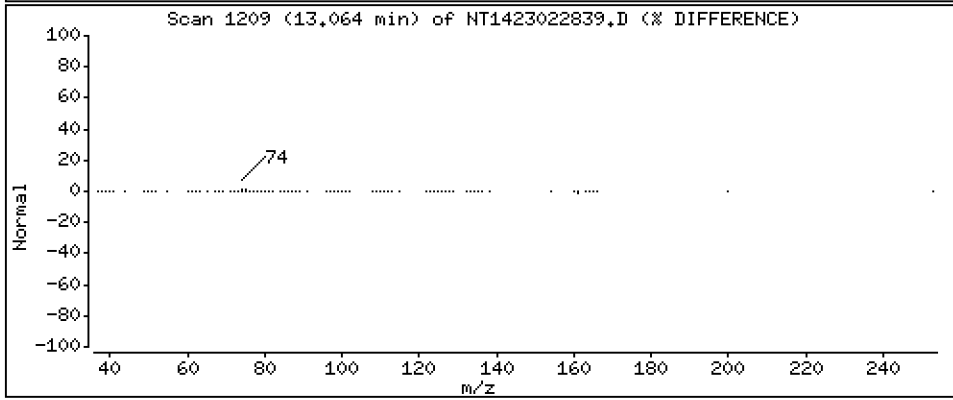
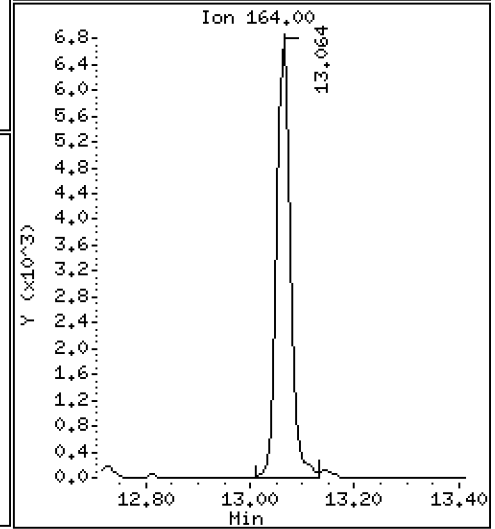
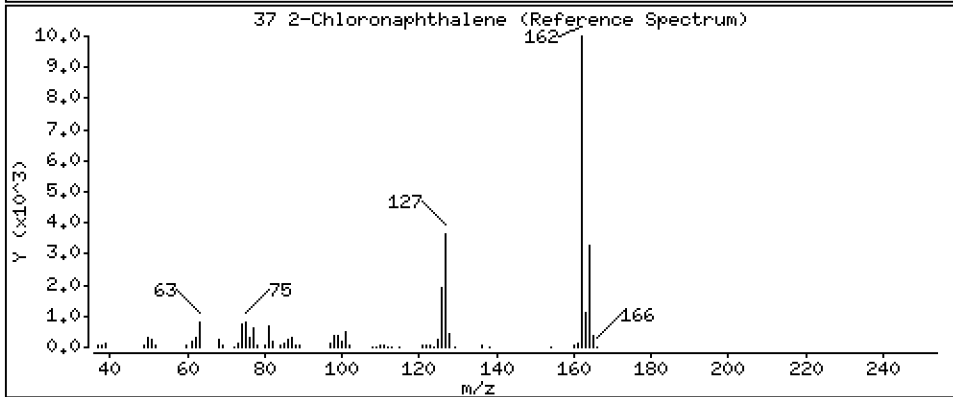
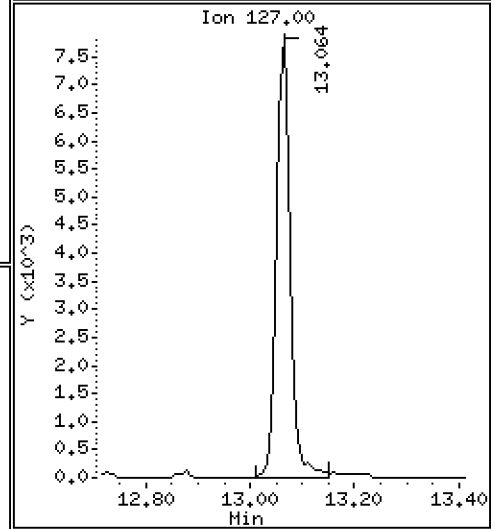
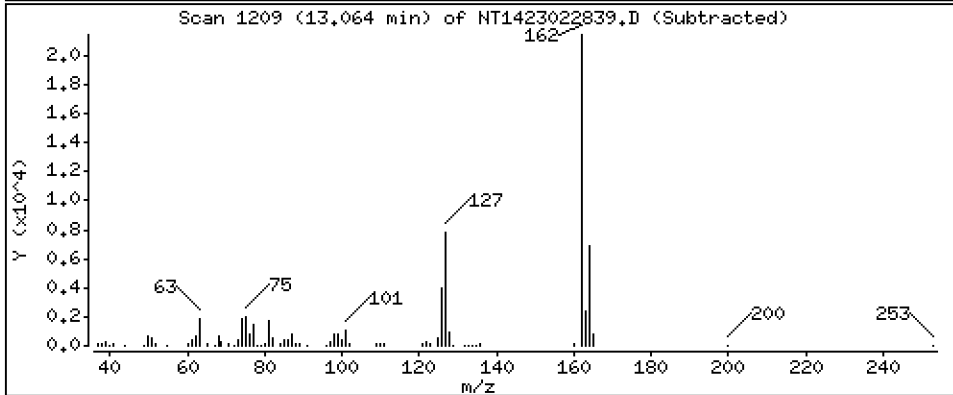
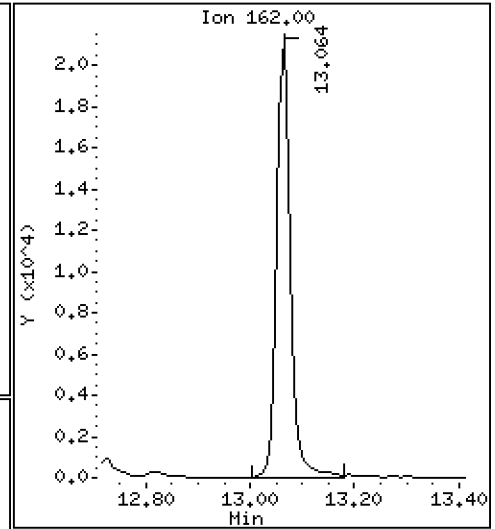
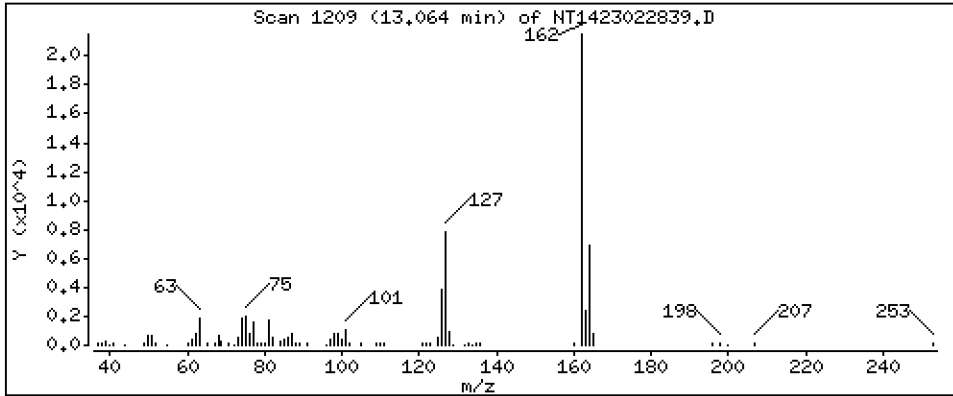
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

37 2-Chloronaphthalene

Concentration: 0,5120 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

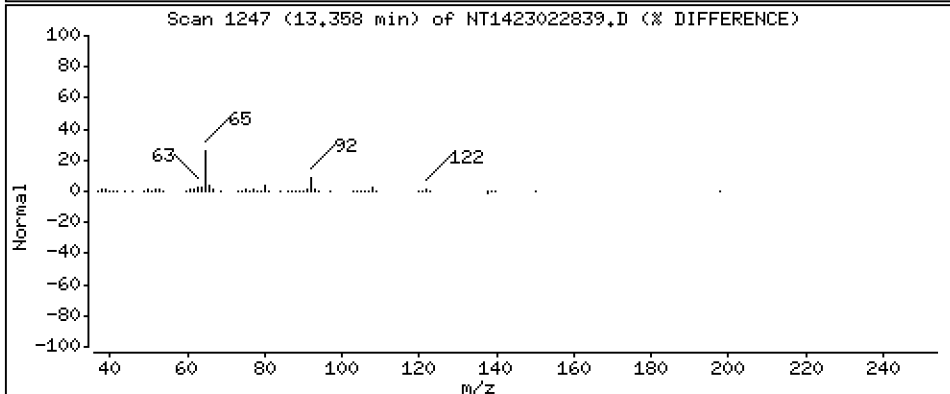
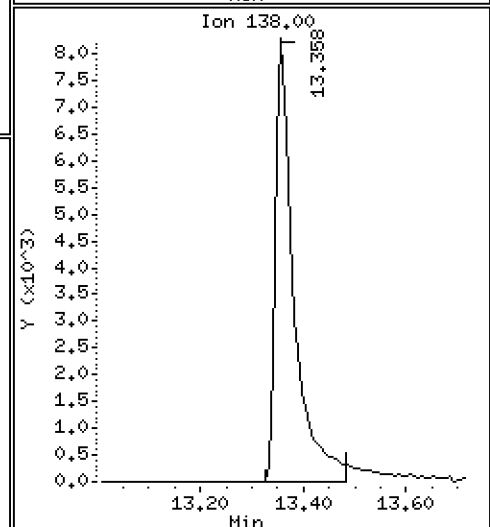
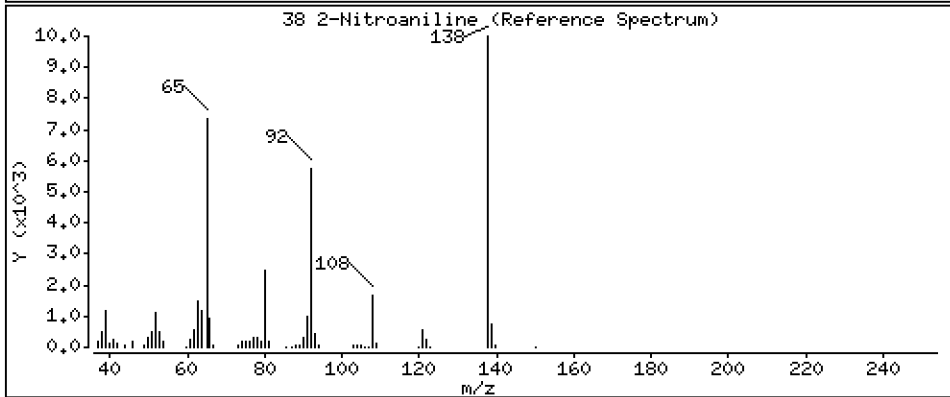
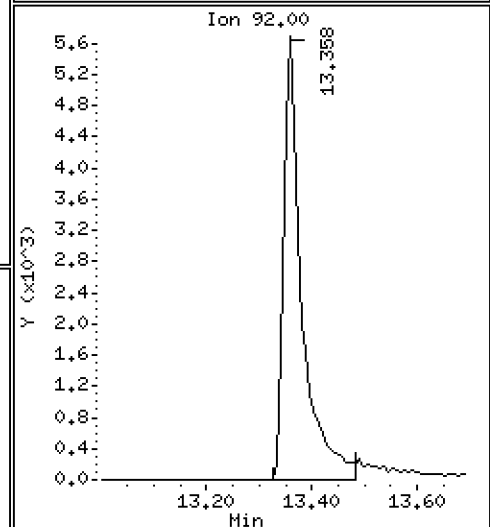
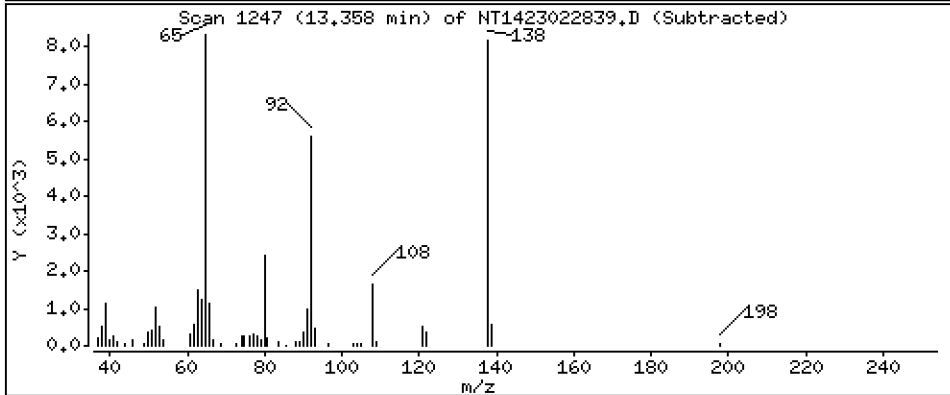
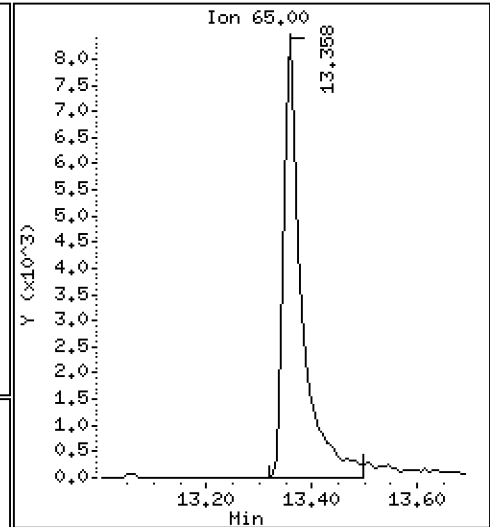
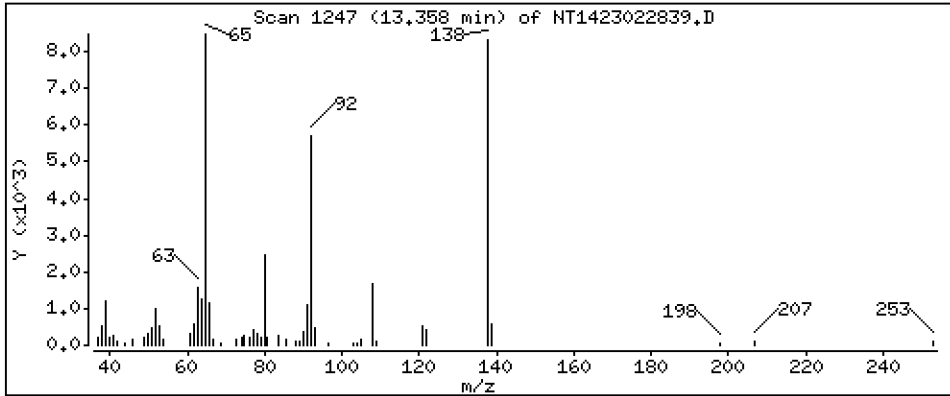
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

38 2-Nitroaniline

Concentration: 1,070 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

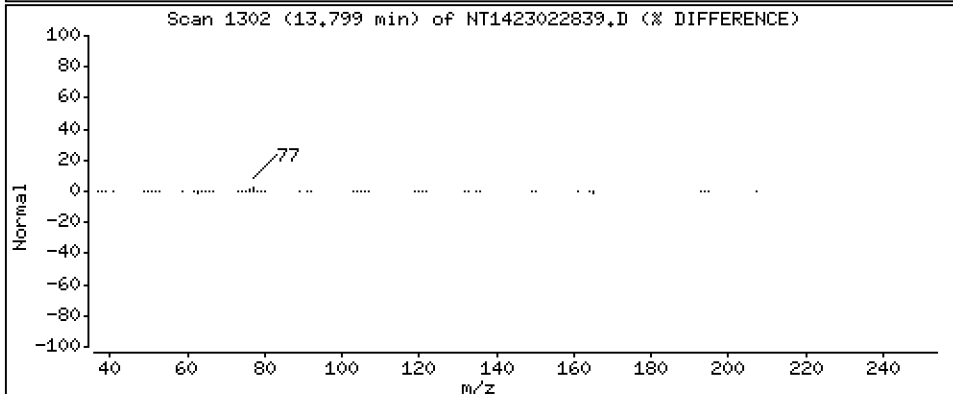
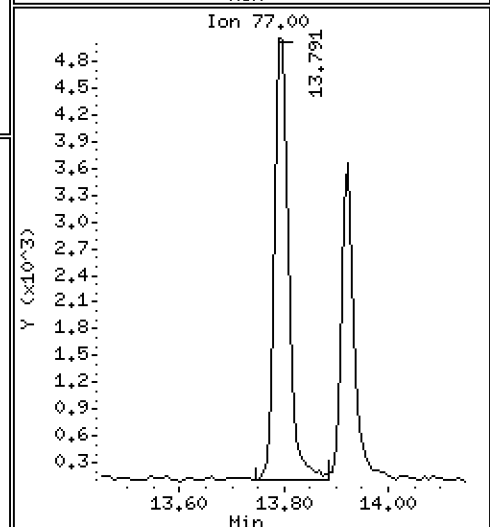
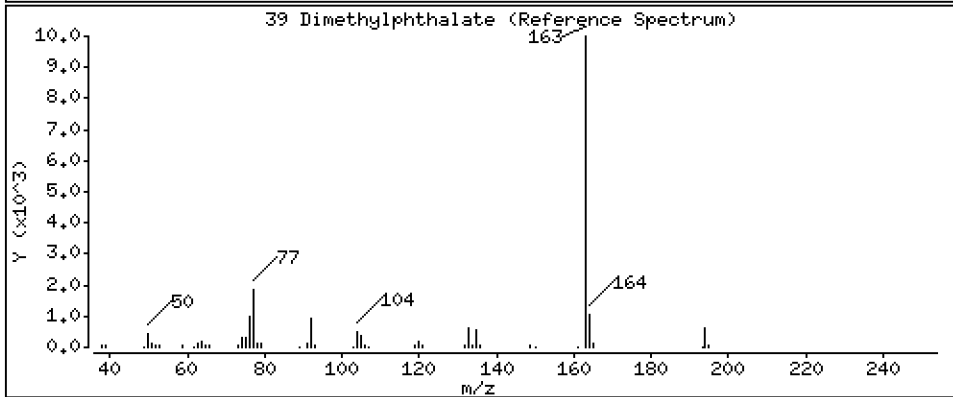
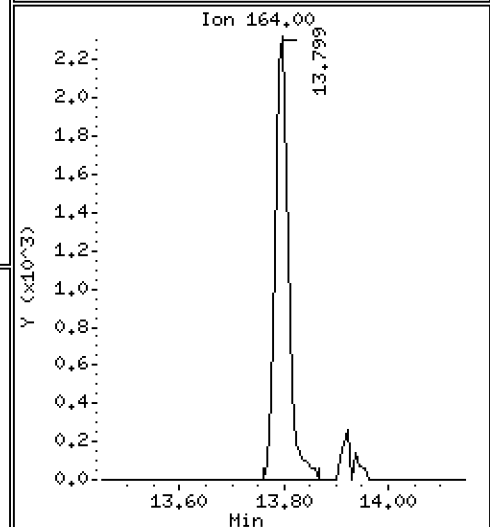
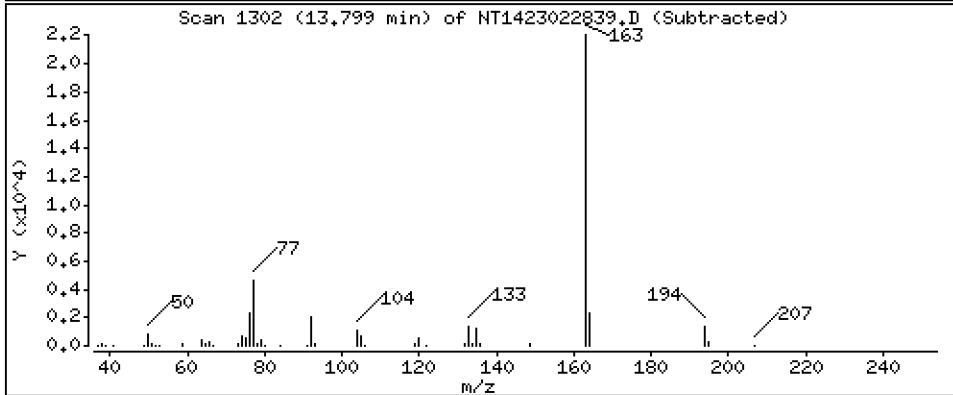
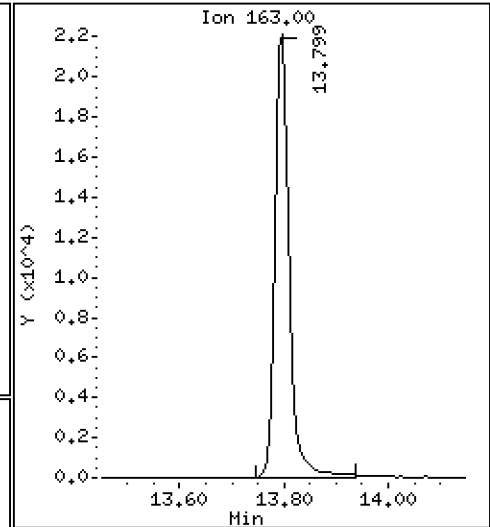
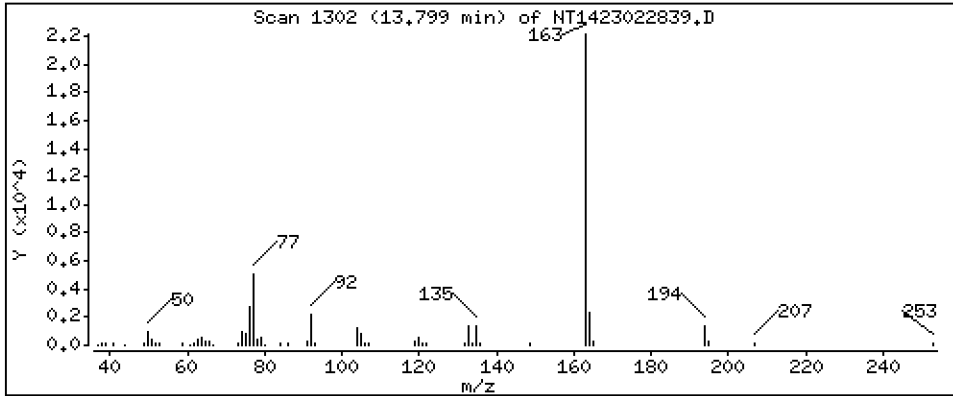
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 0,5531 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

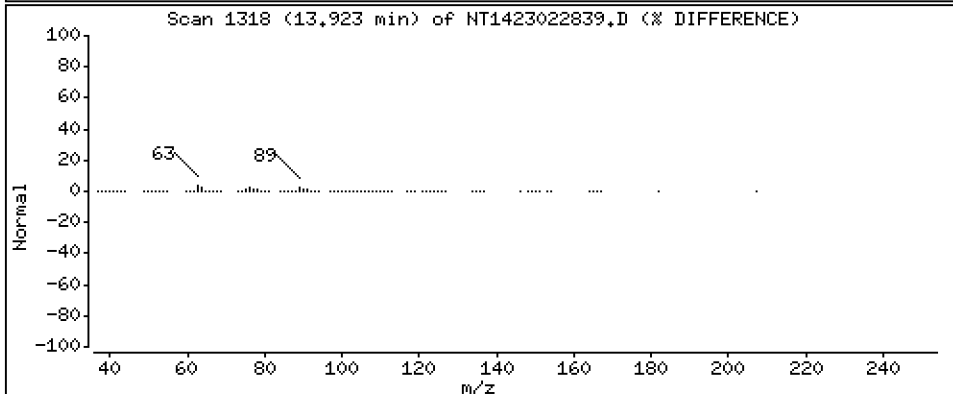
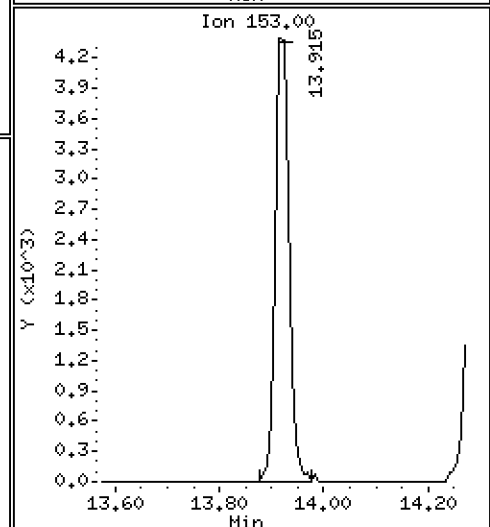
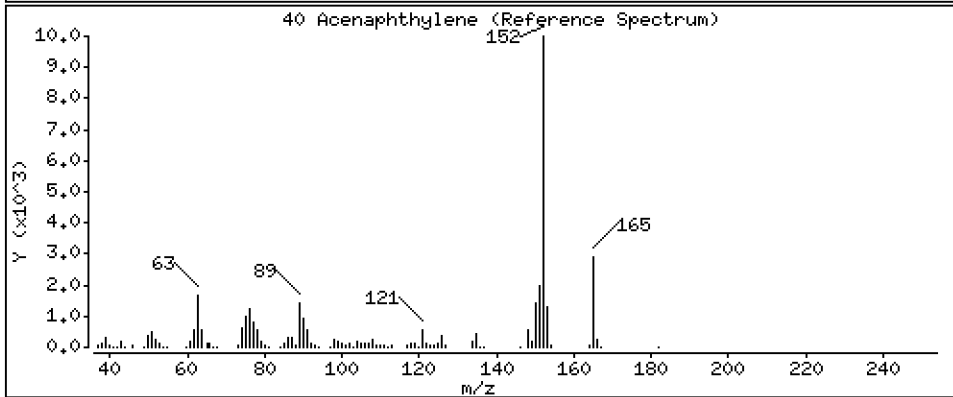
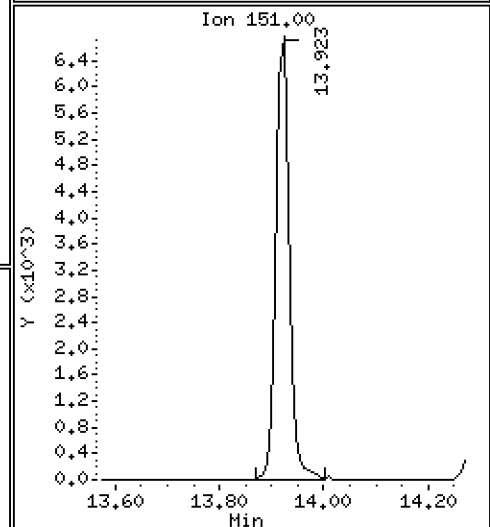
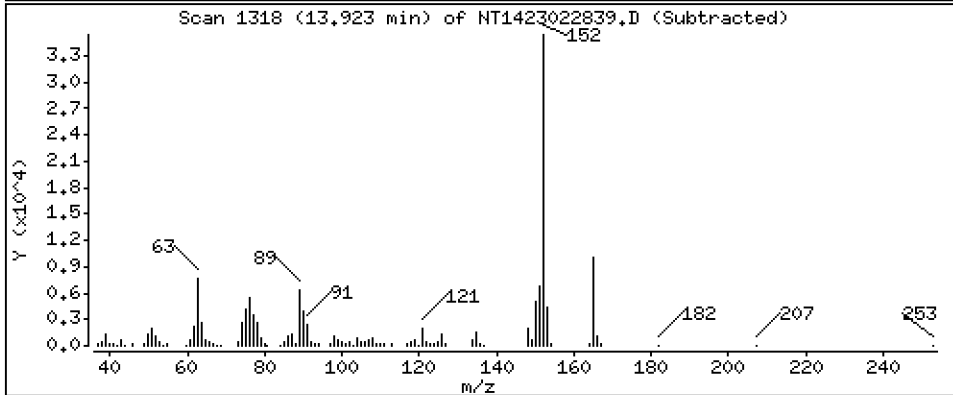
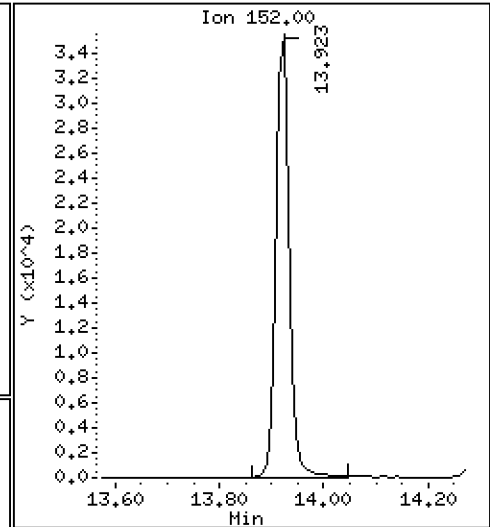
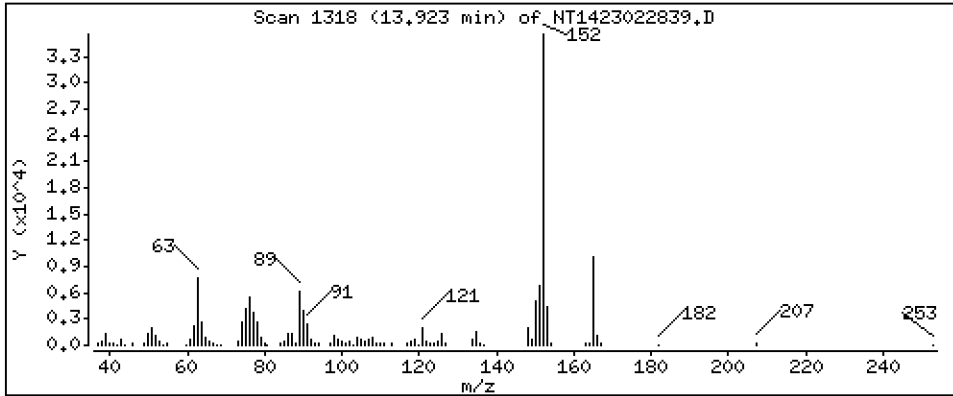
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 0,5614 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

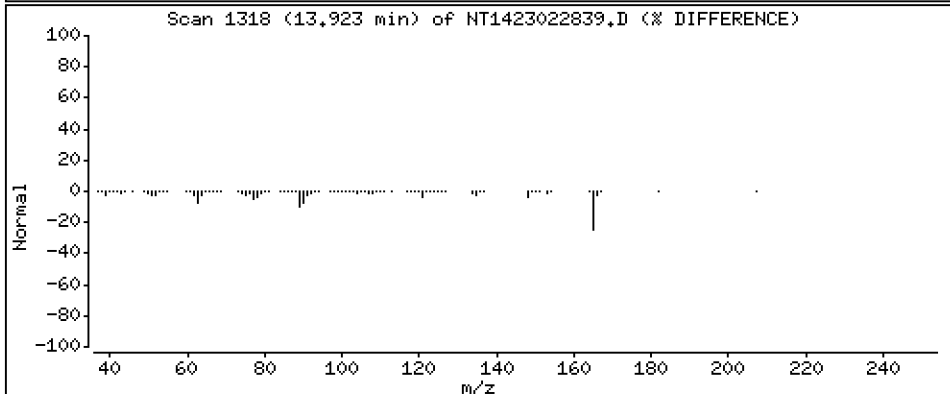
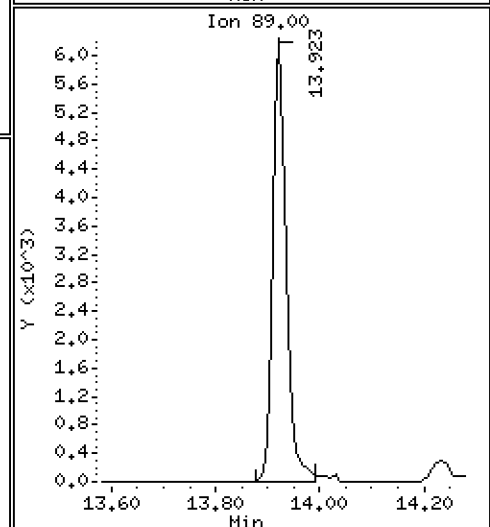
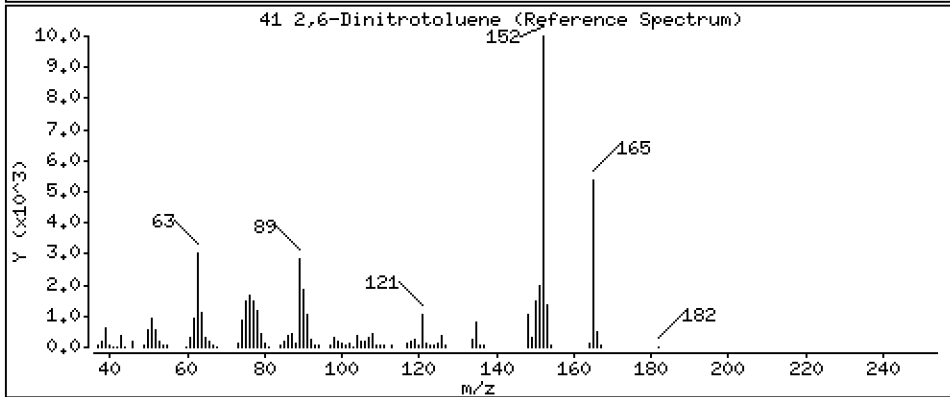
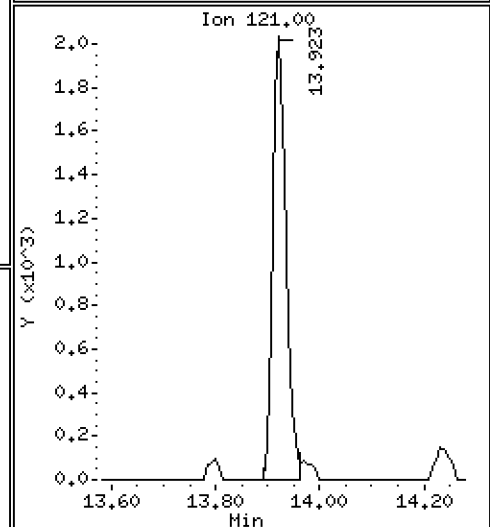
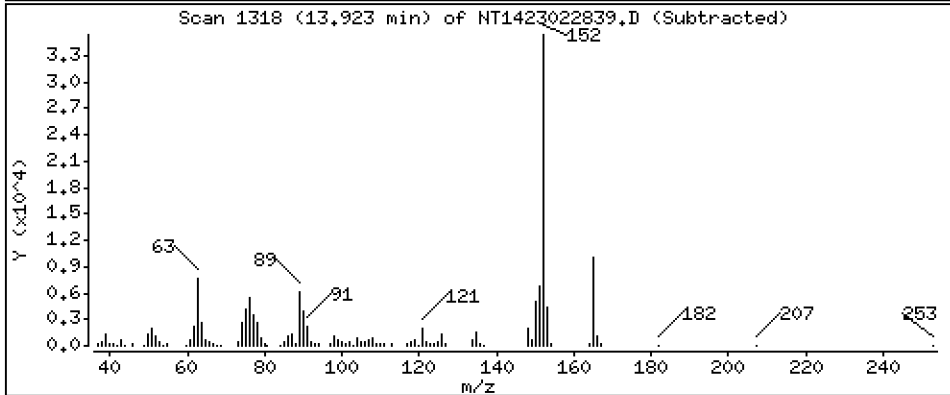
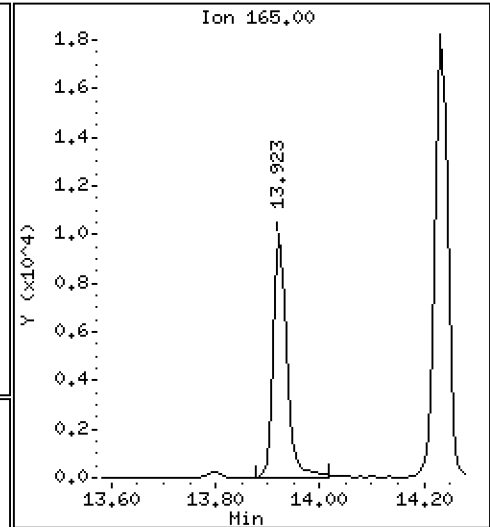
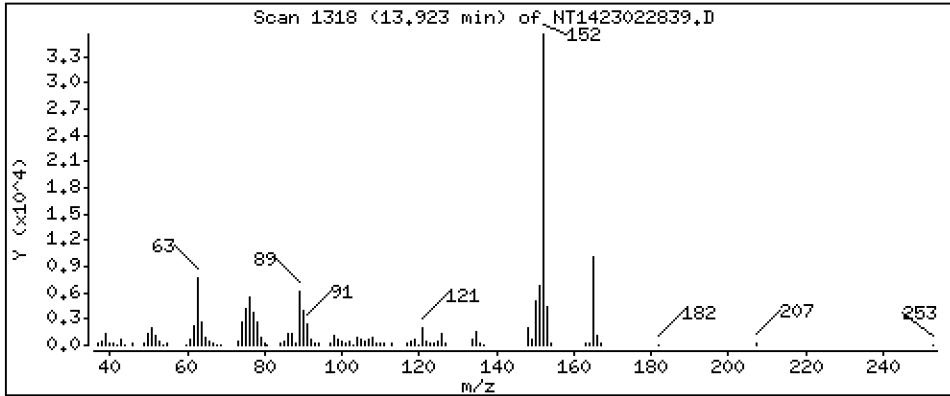
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

41 2,6-Dinitrotoluene

Concentration: 1.004 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

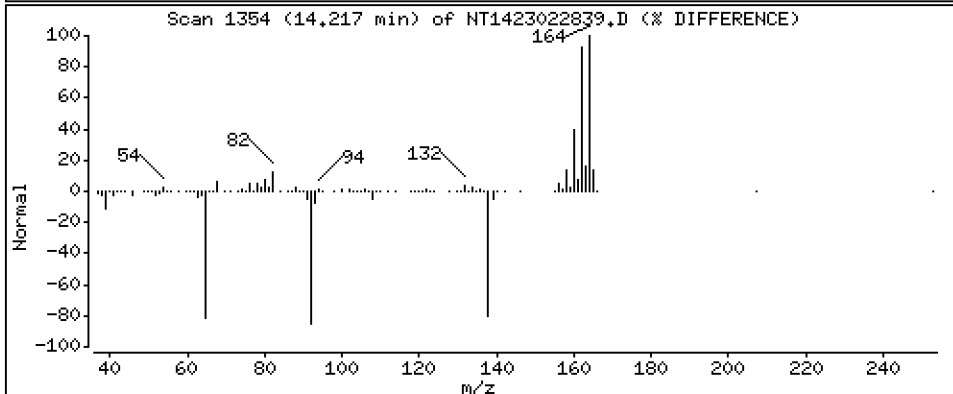
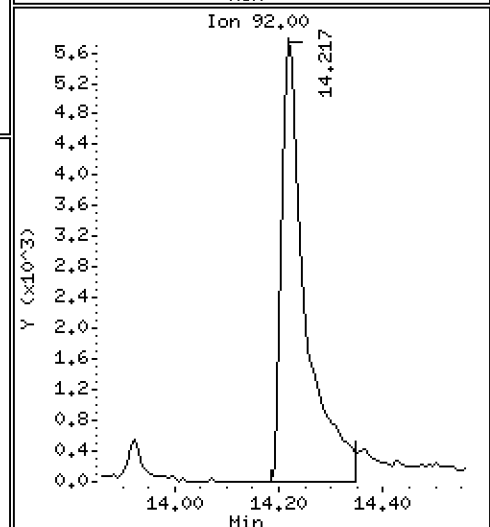
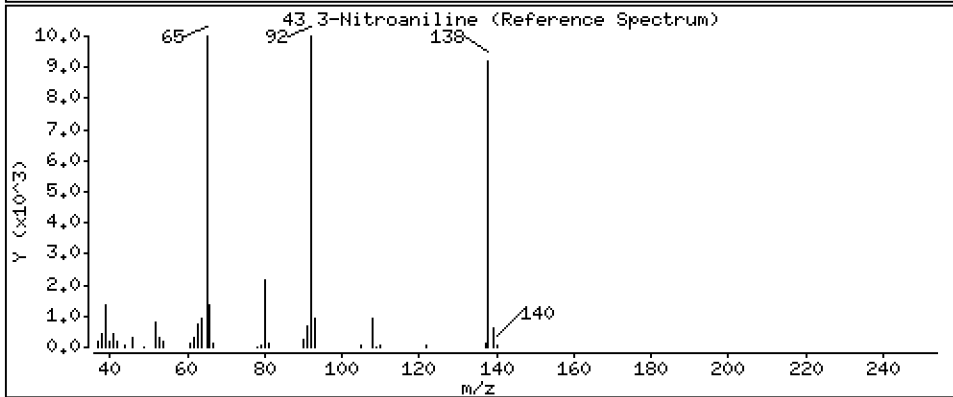
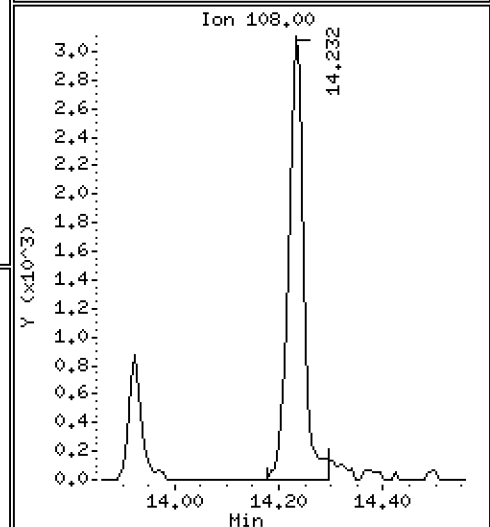
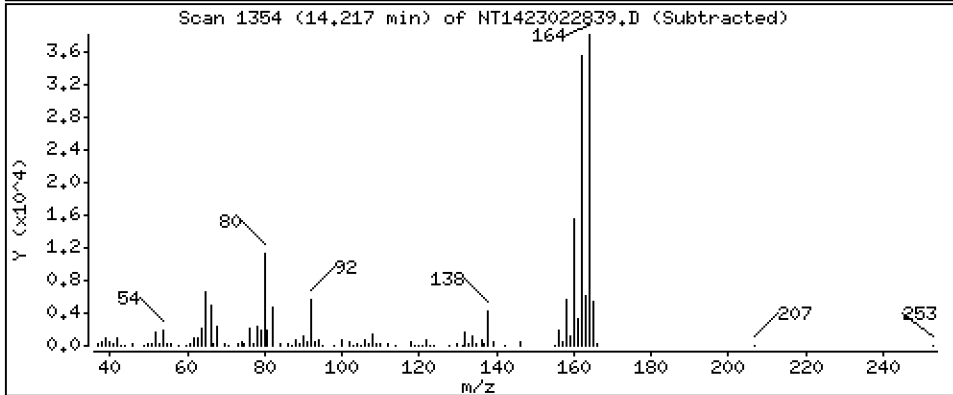
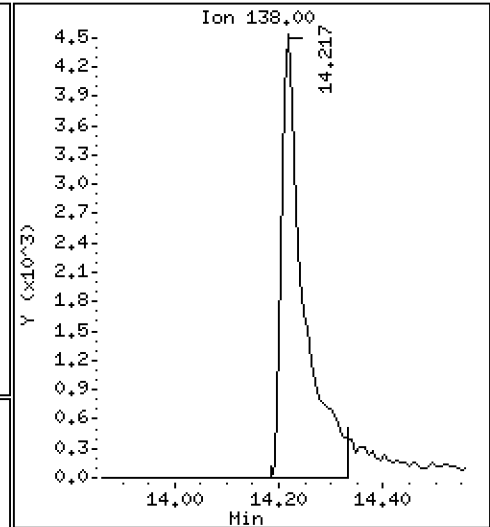
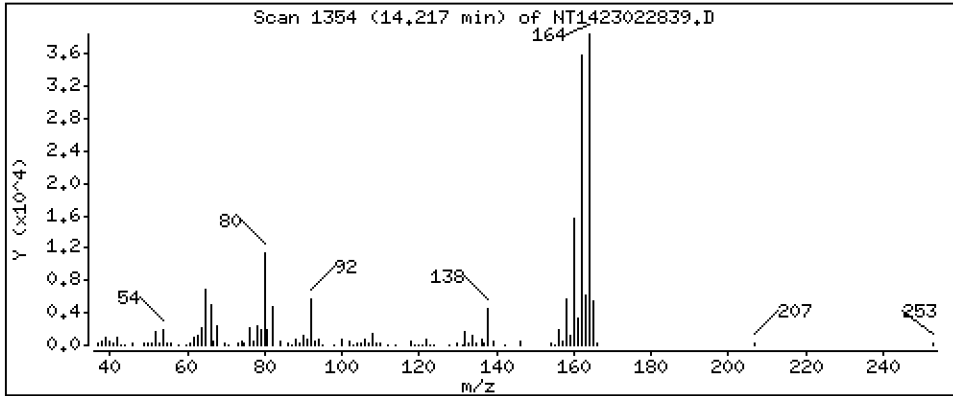
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

43 3-Nitroaniline

Concentration: 0,7629 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

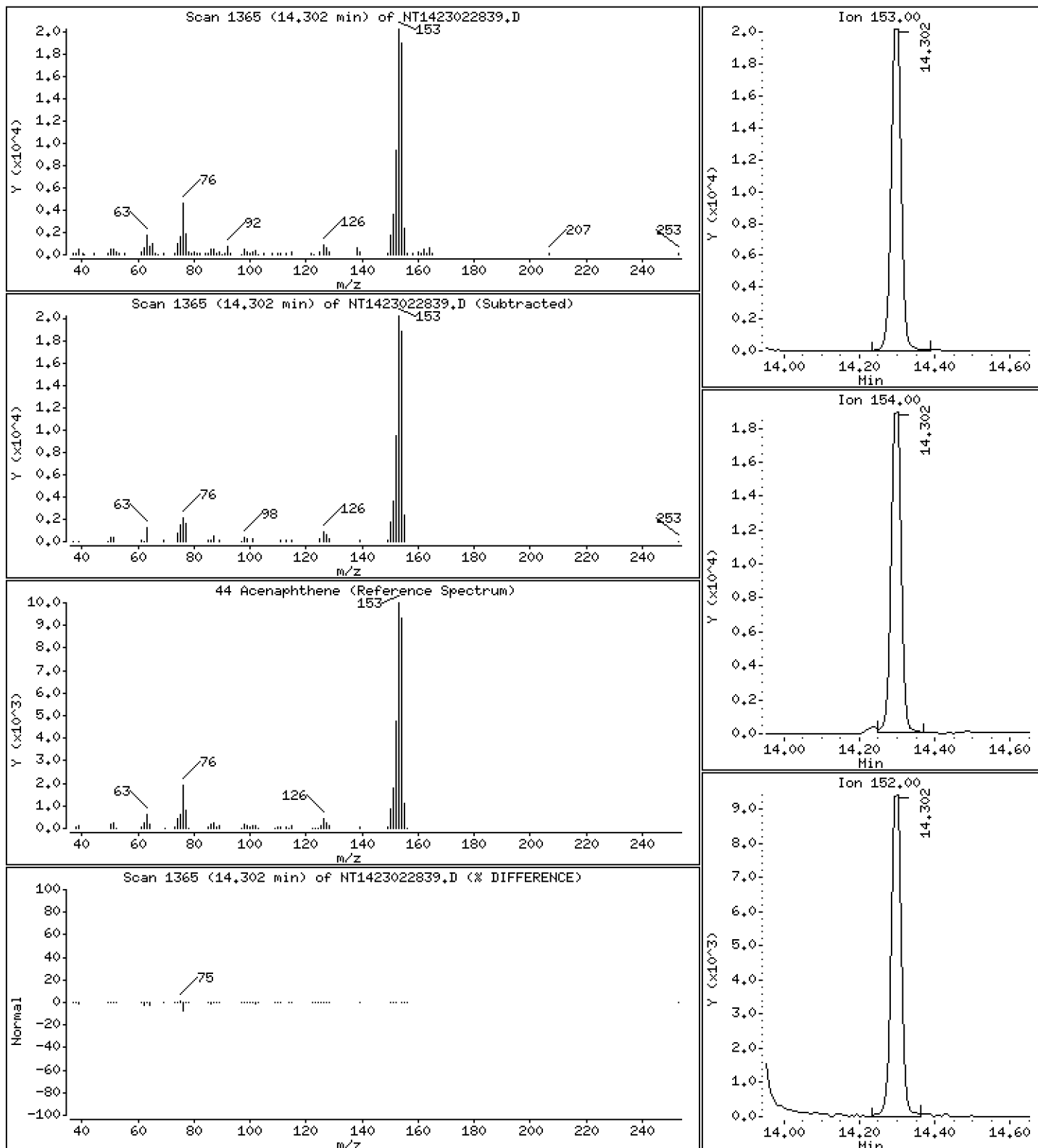
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 0,5197 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

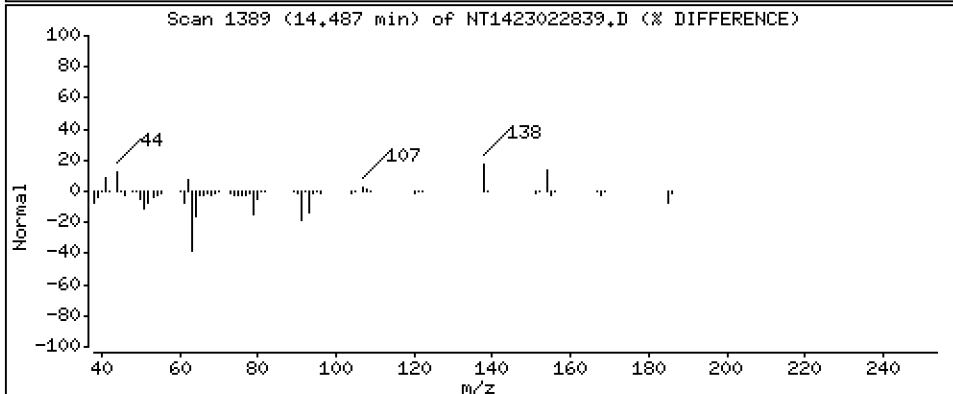
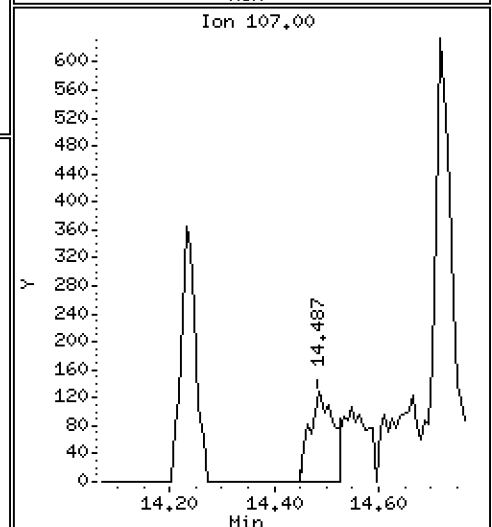
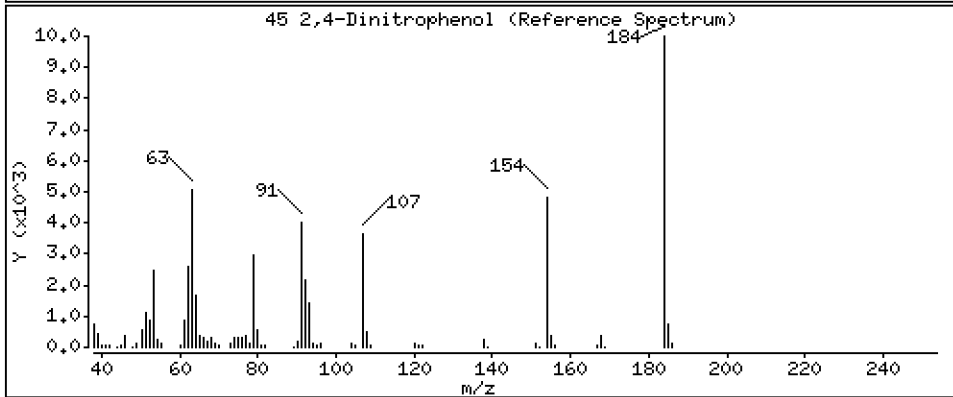
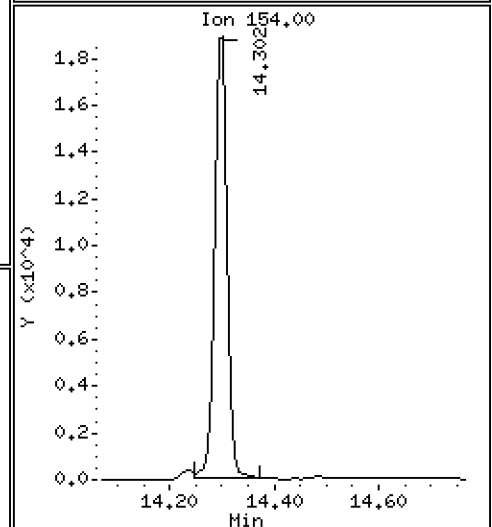
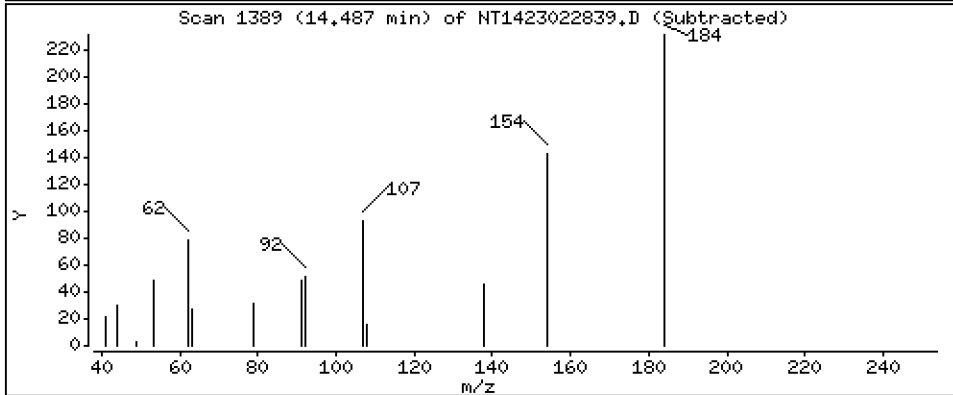
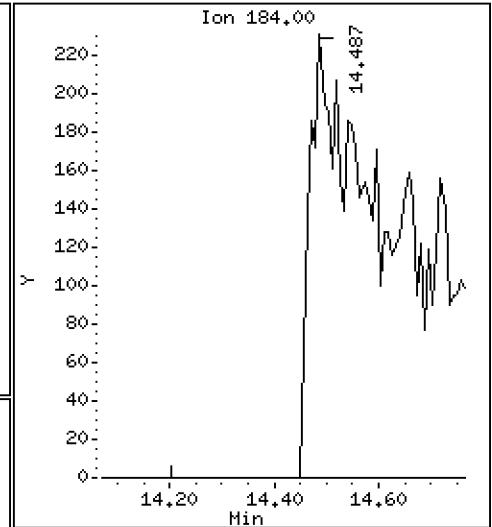
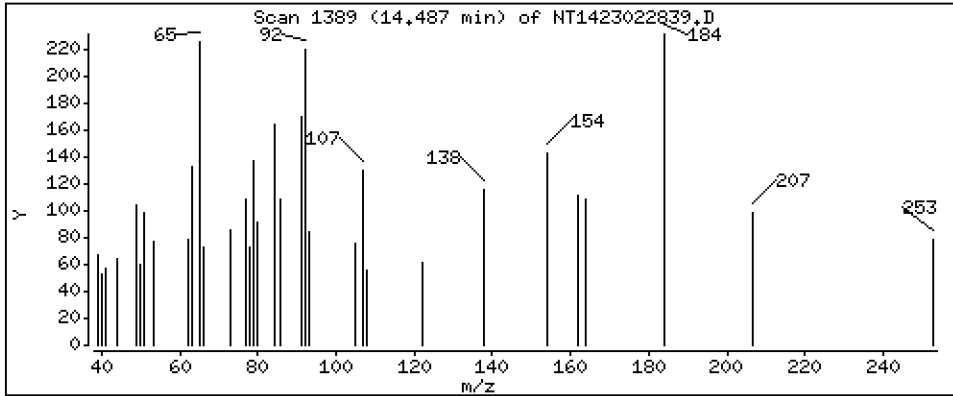
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

45 2,4-Dinitrophenol

Concentration: 0,3318 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

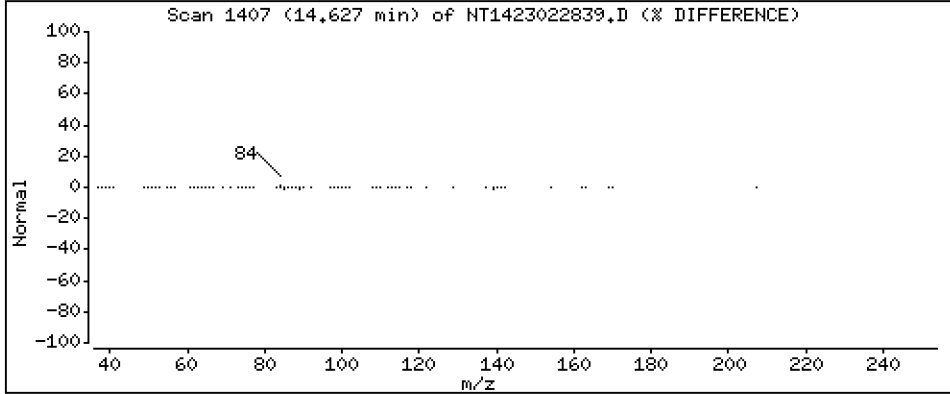
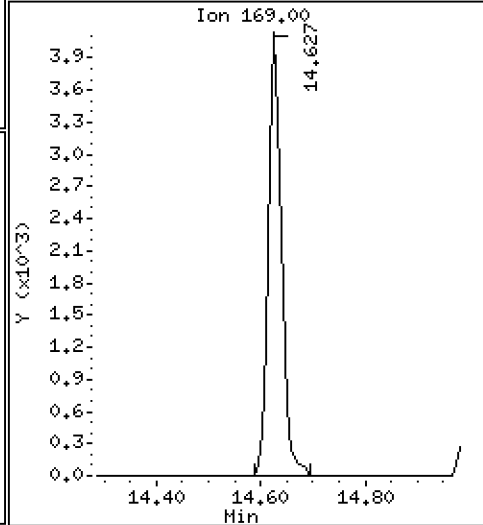
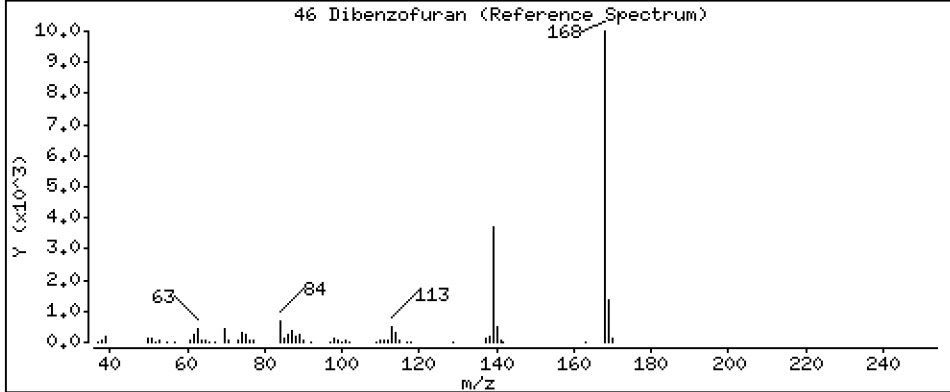
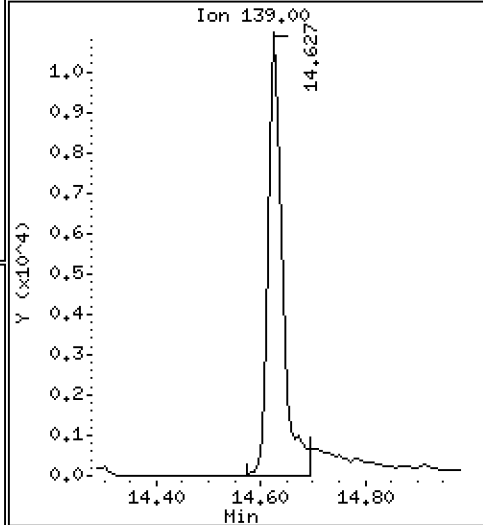
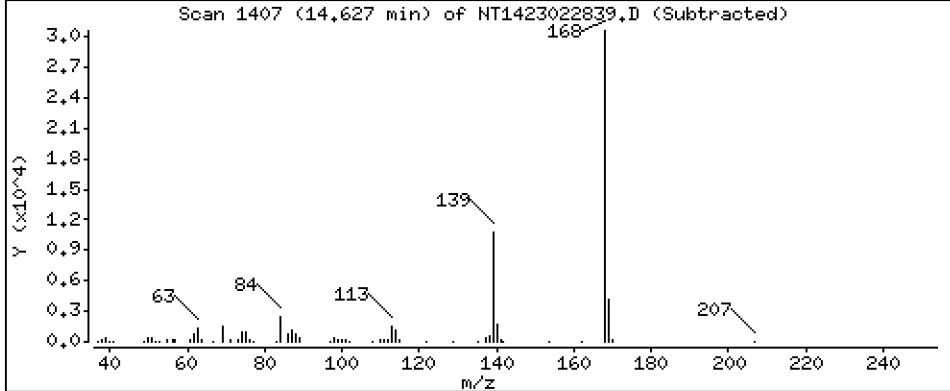
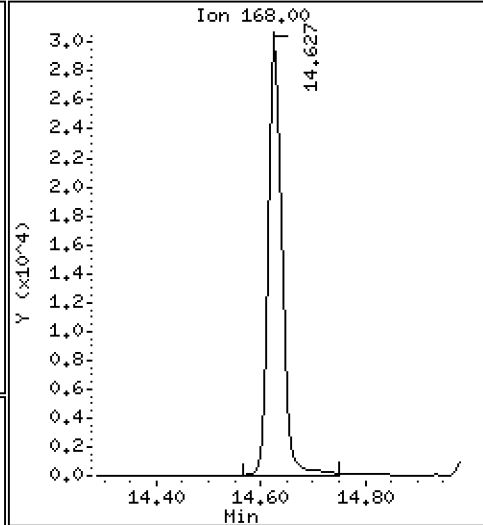
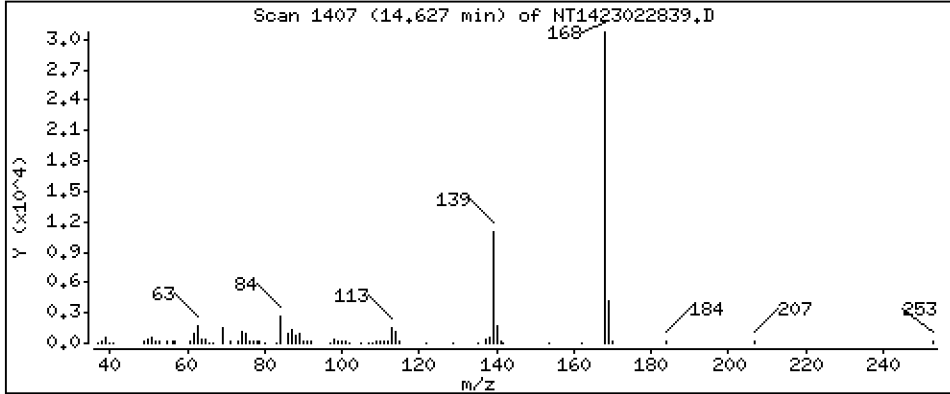
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 0,5026 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

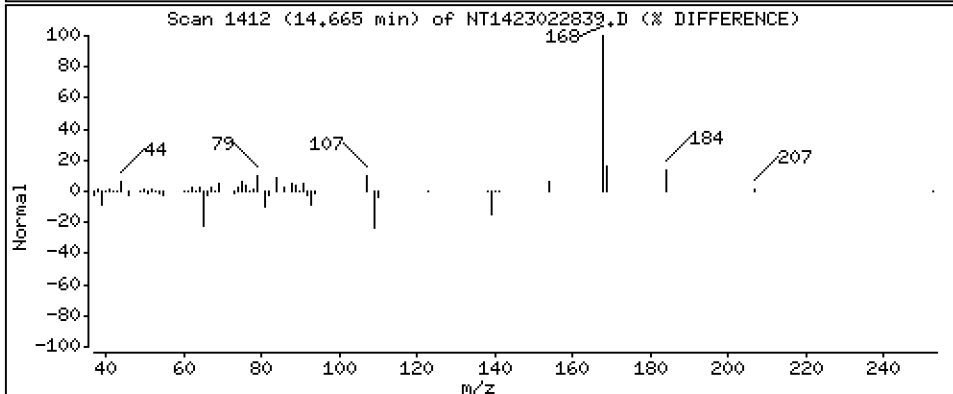
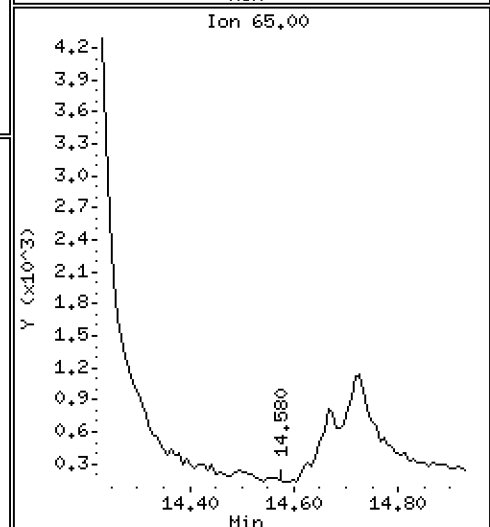
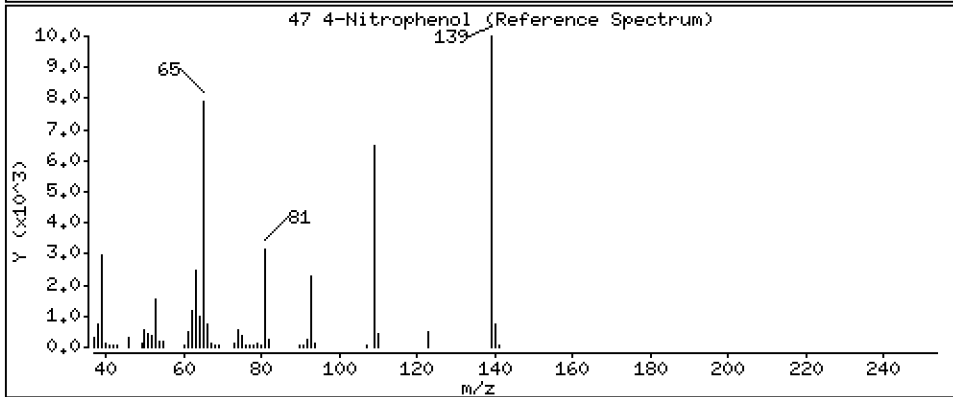
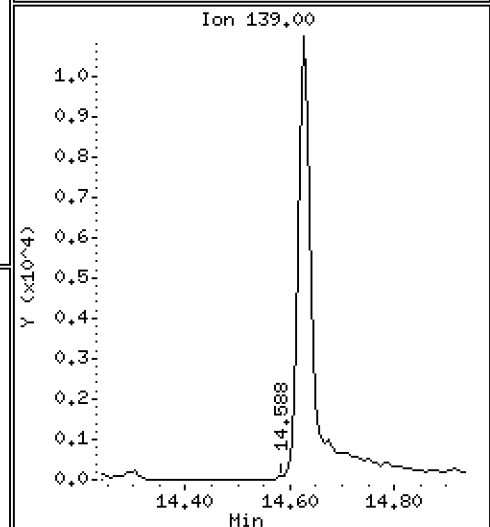
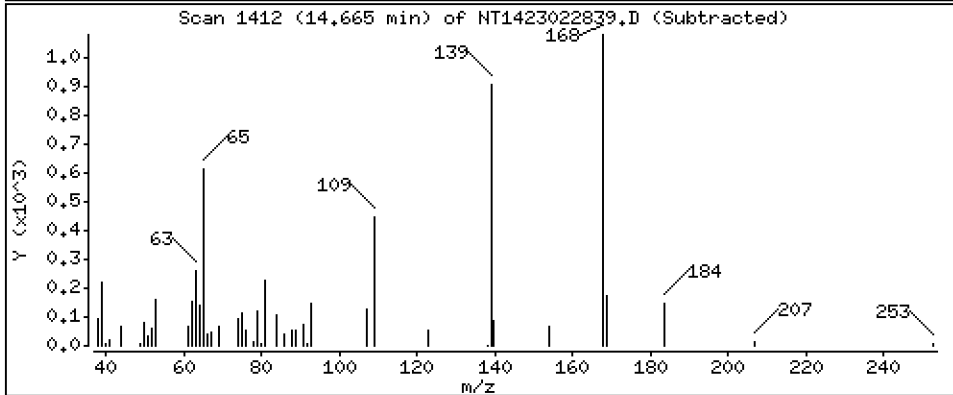
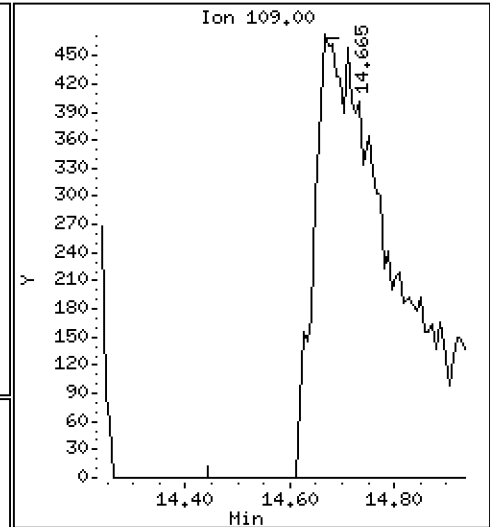
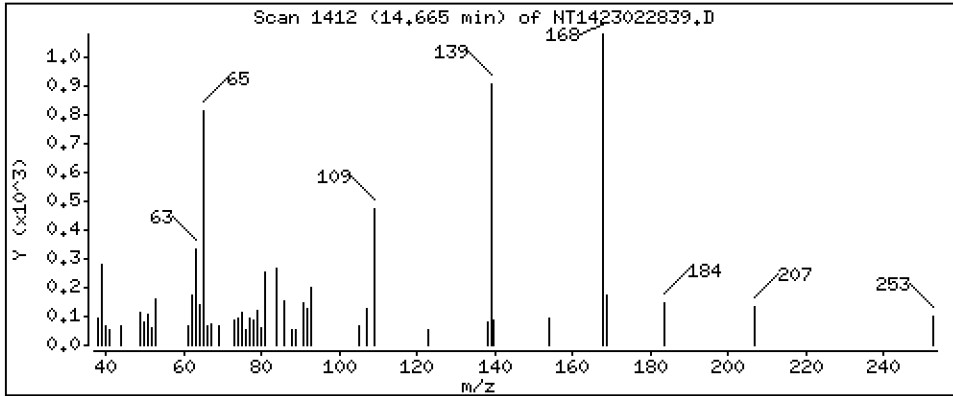
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

47 4-Nitrophenol

Concentration: 0,7739 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

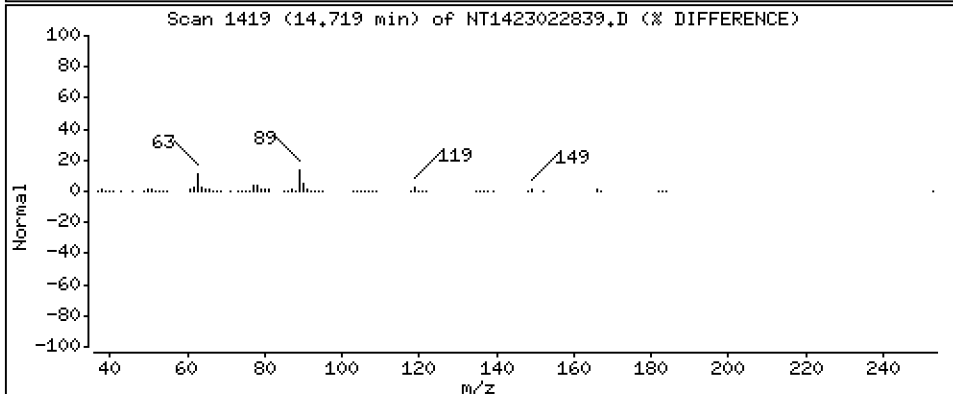
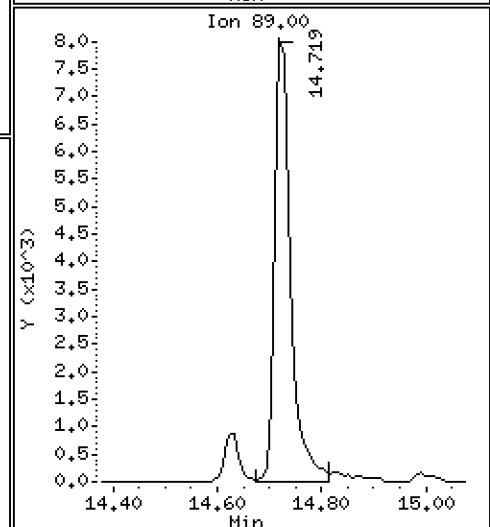
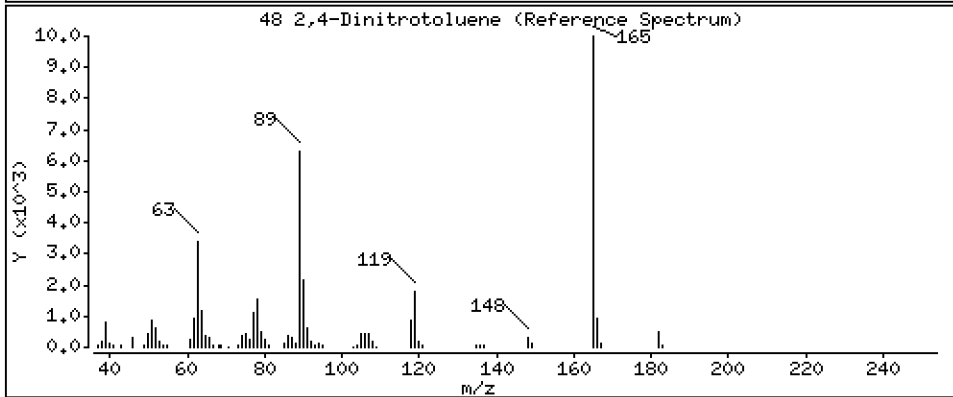
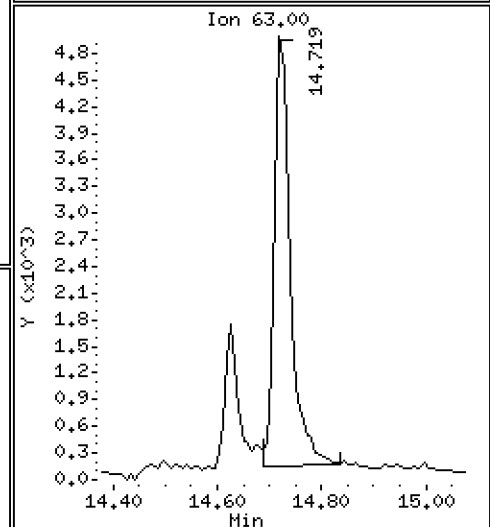
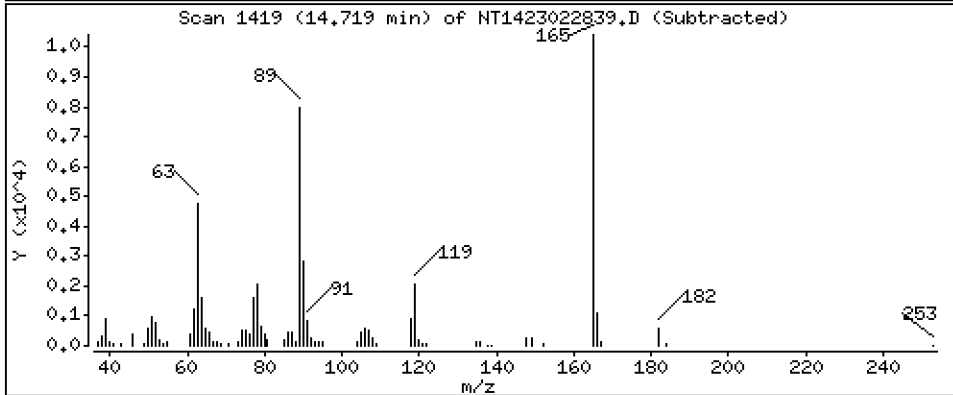
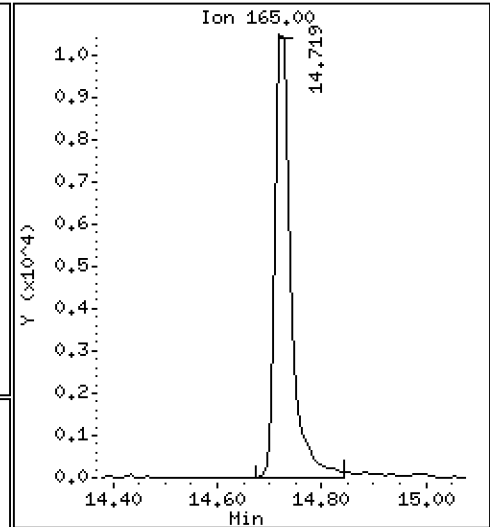
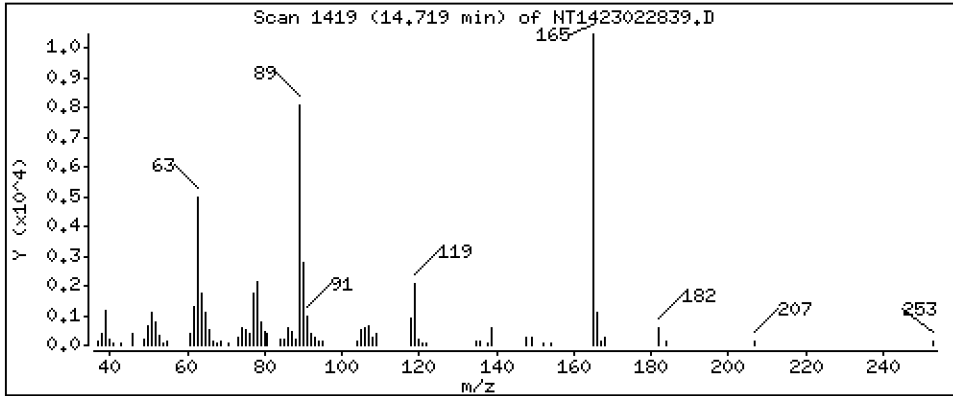
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

48 2,4-Dinitrotoluene

Concentration: 0.8778 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

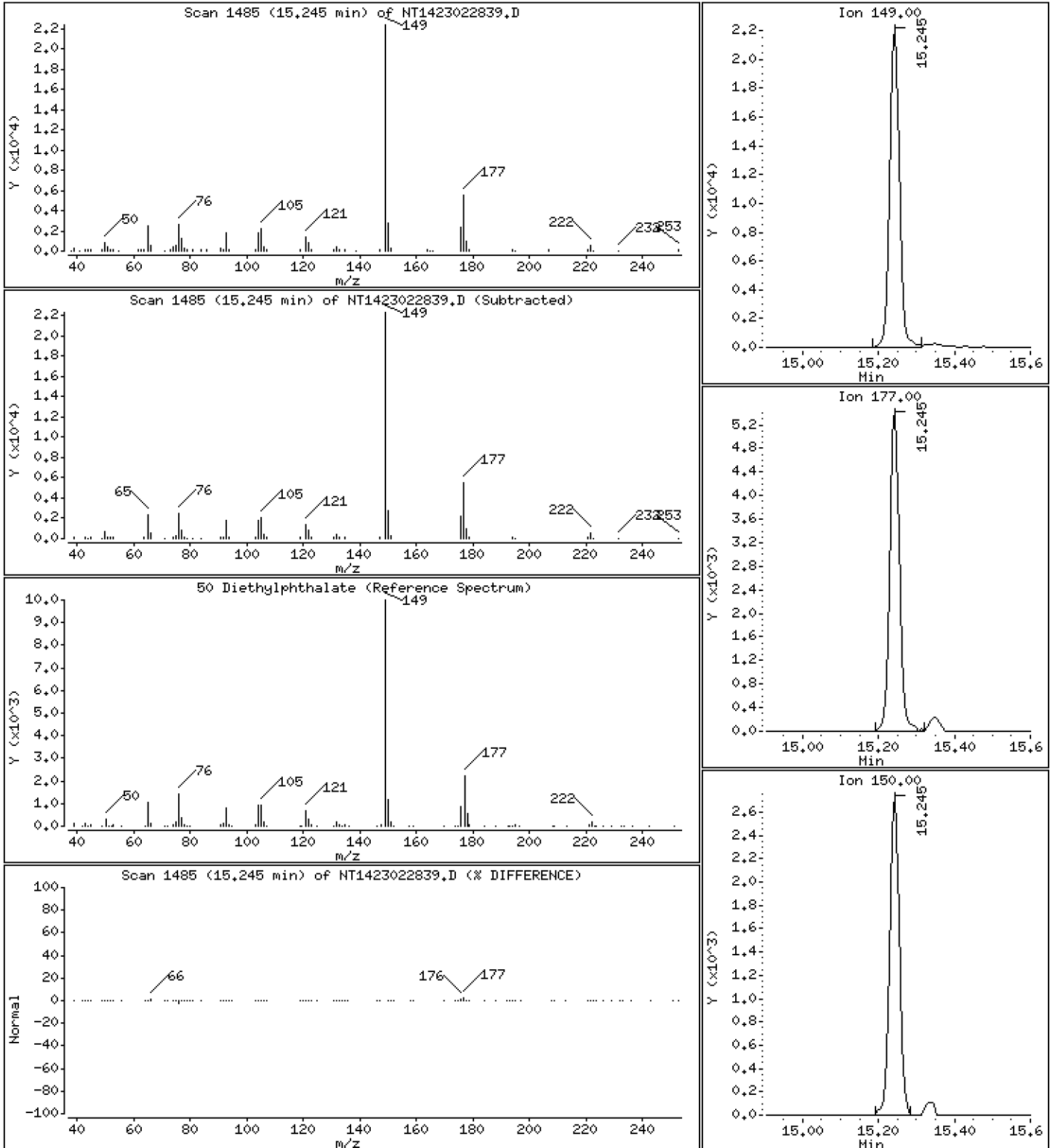
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 0,5507 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

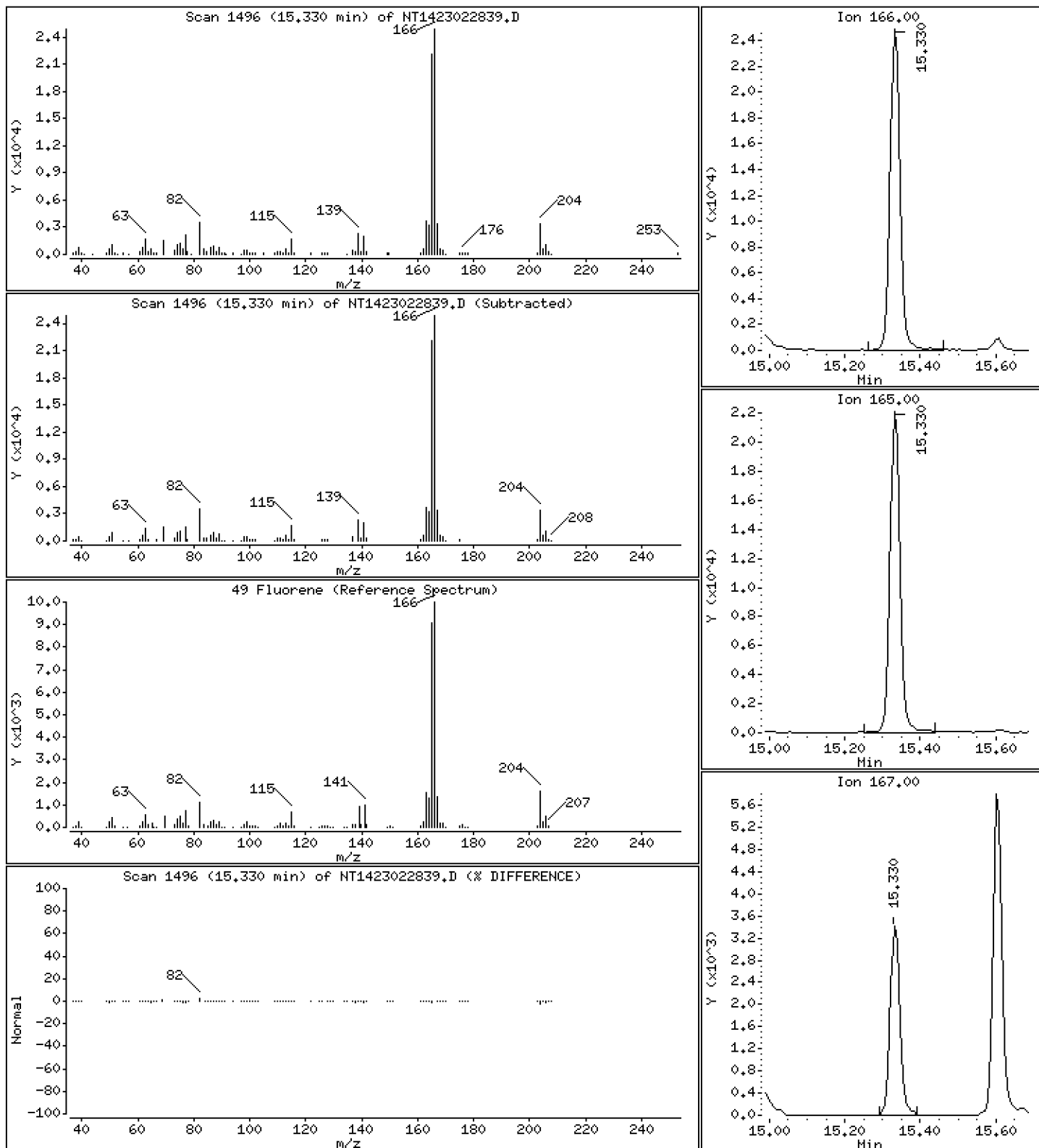
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 0,5207 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

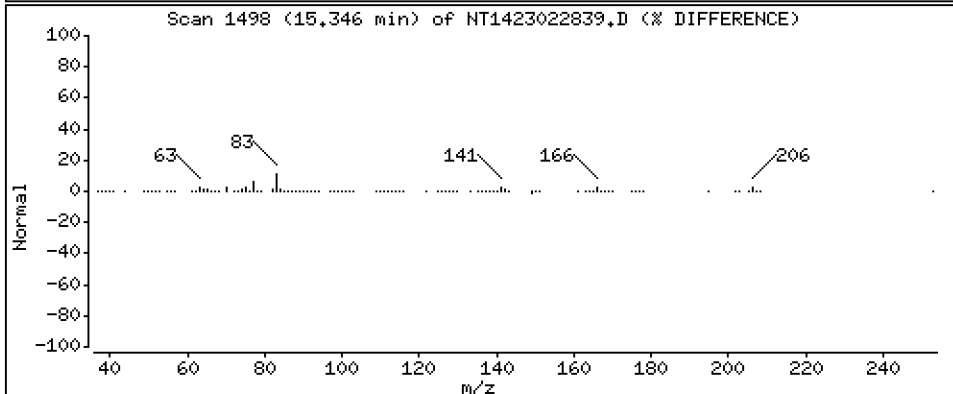
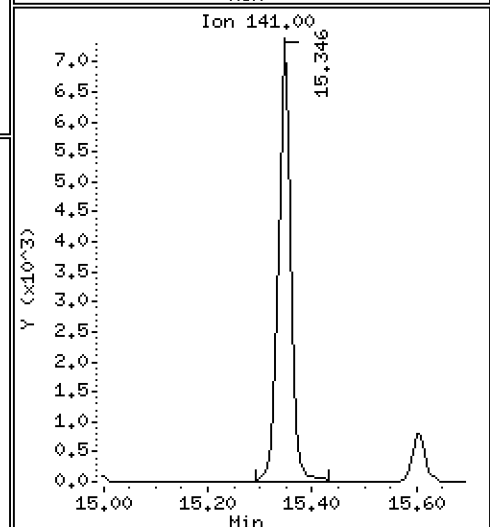
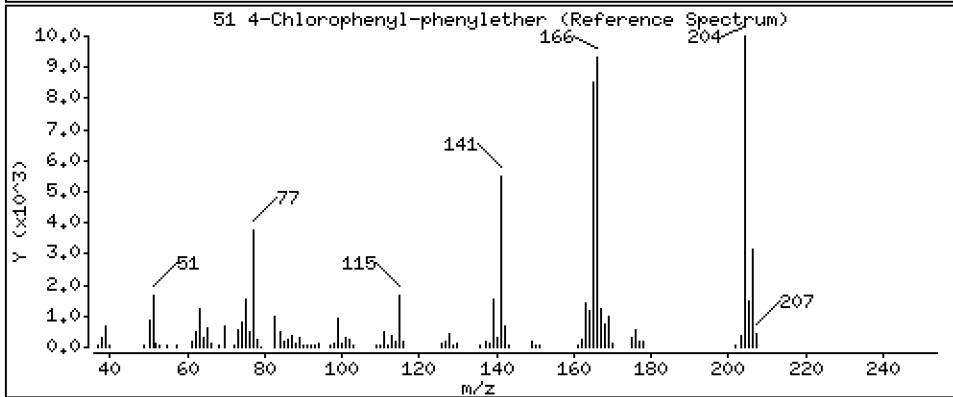
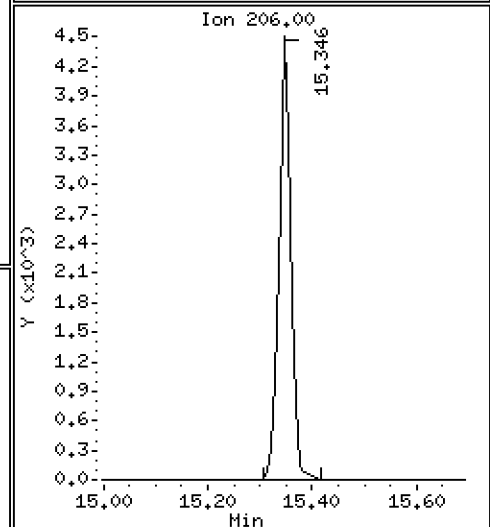
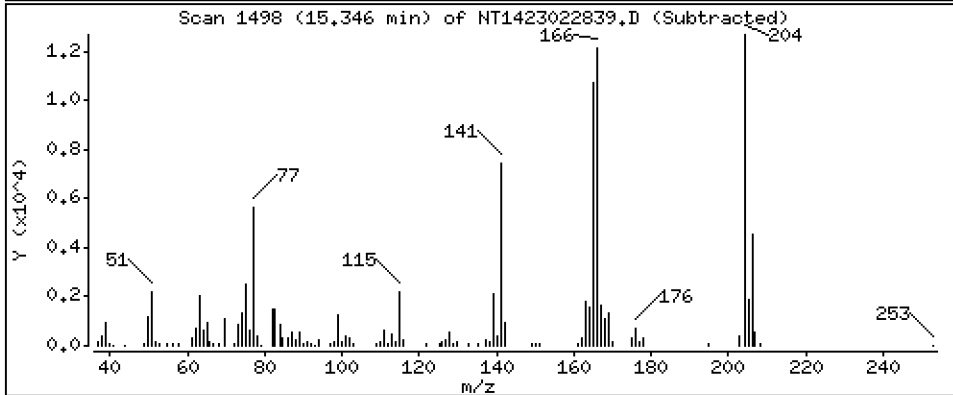
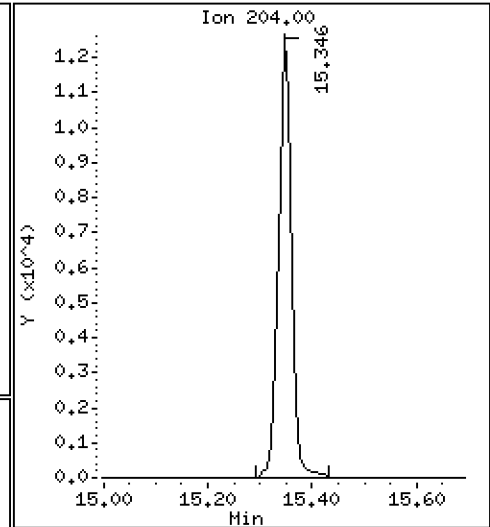
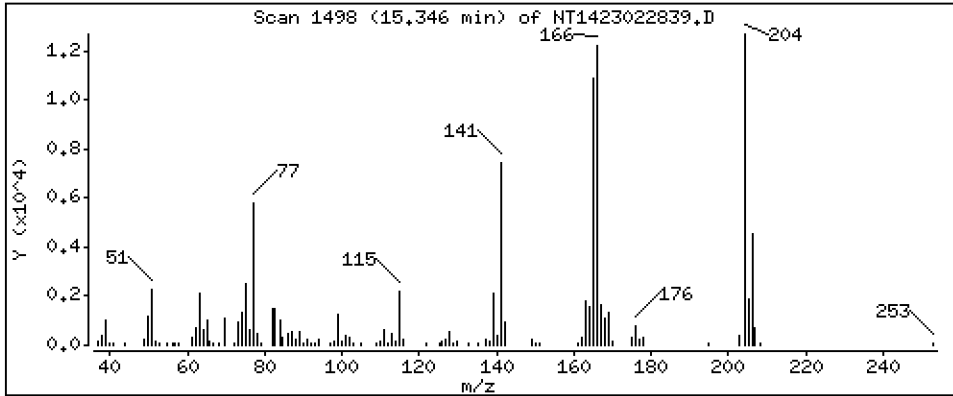
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 0,4945 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

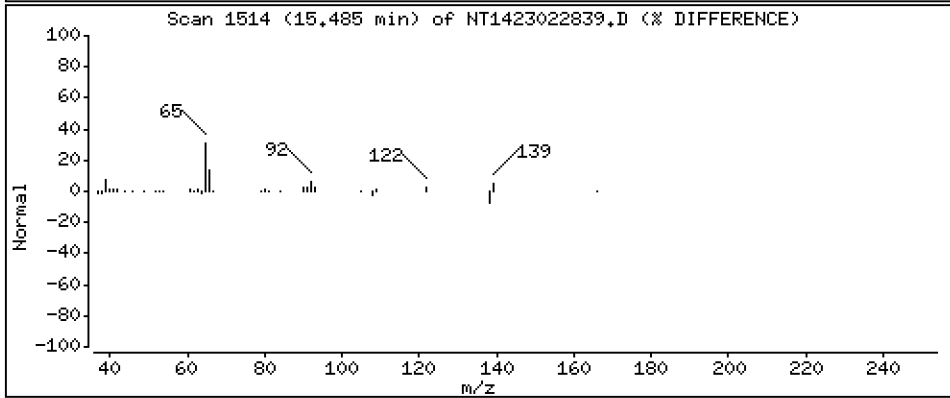
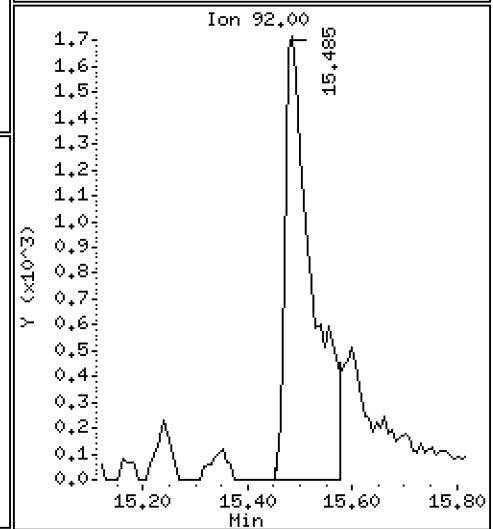
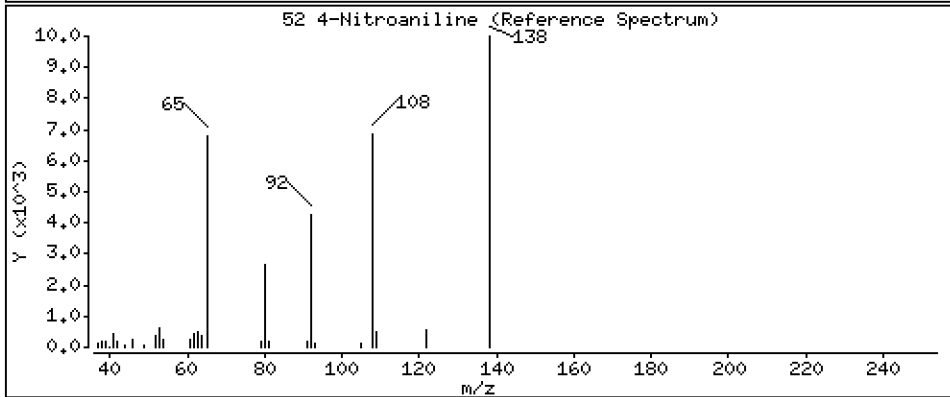
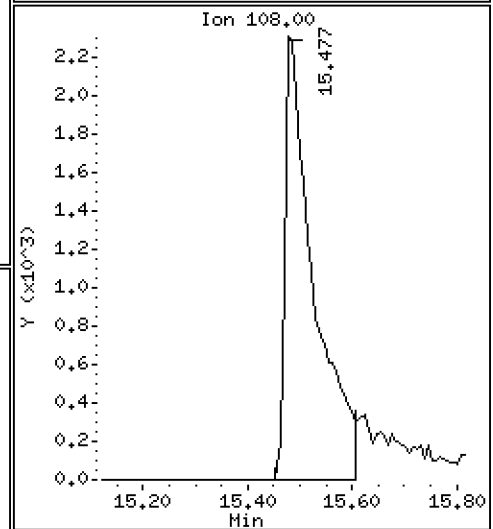
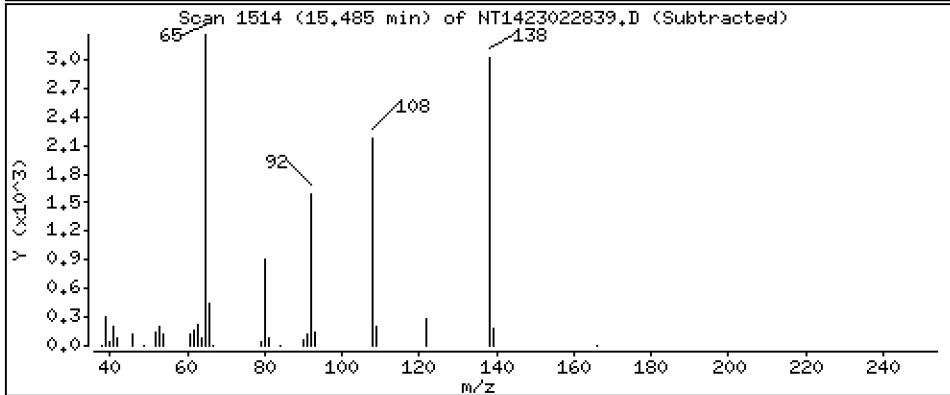
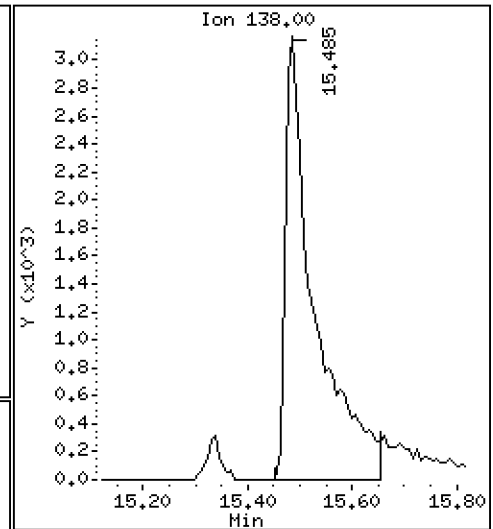
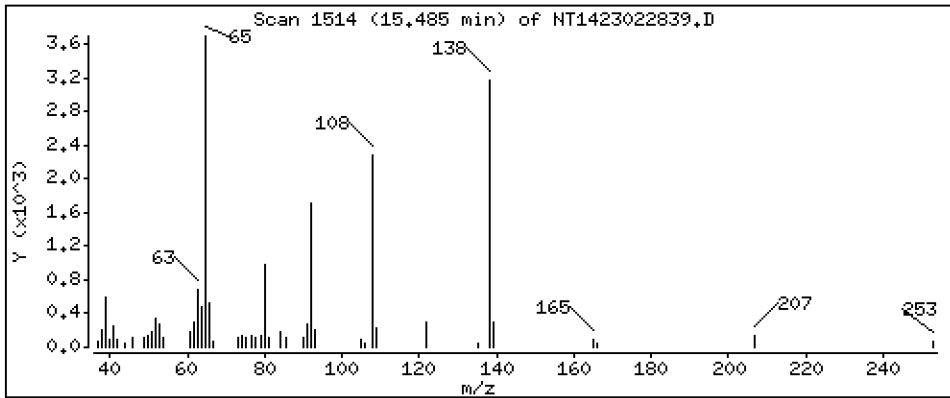
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

52 4-Nitroaniline

Concentration: 0,7157 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

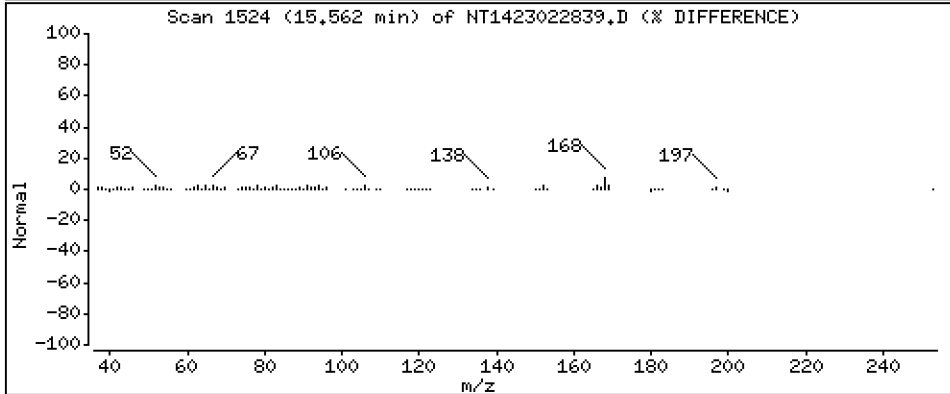
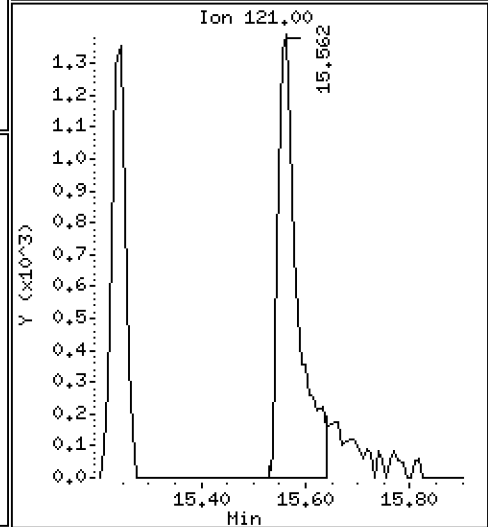
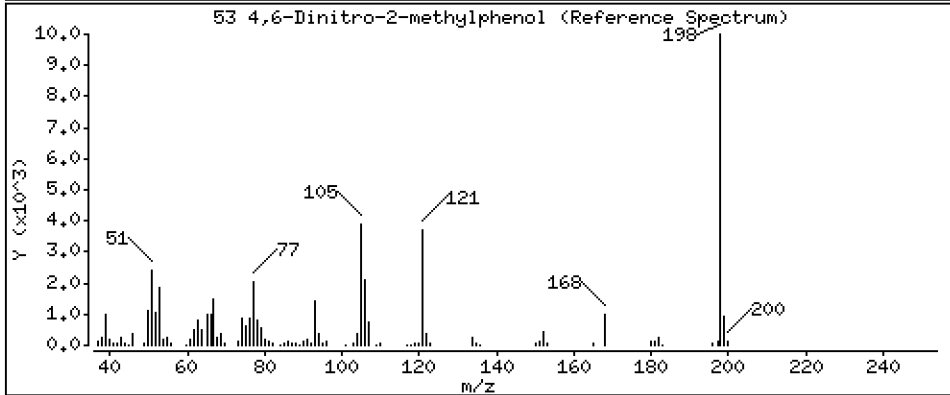
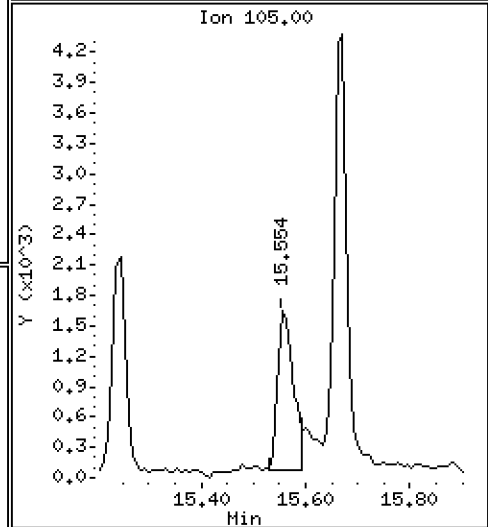
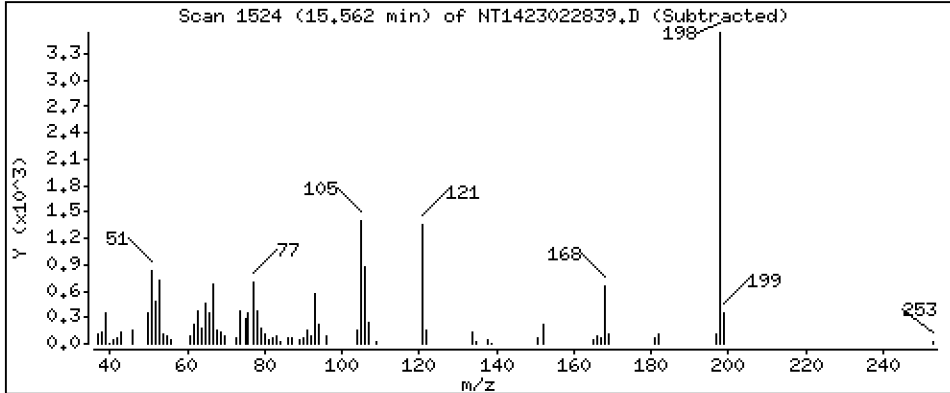
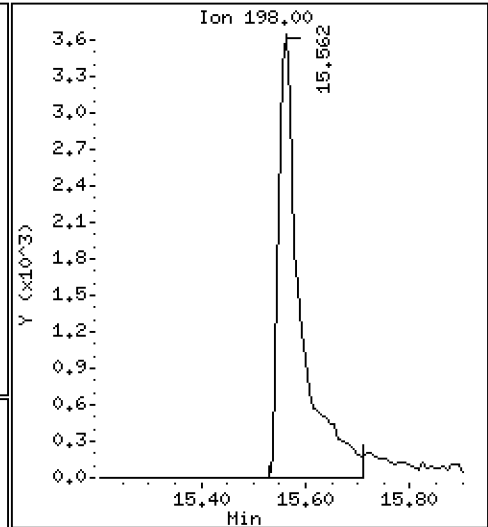
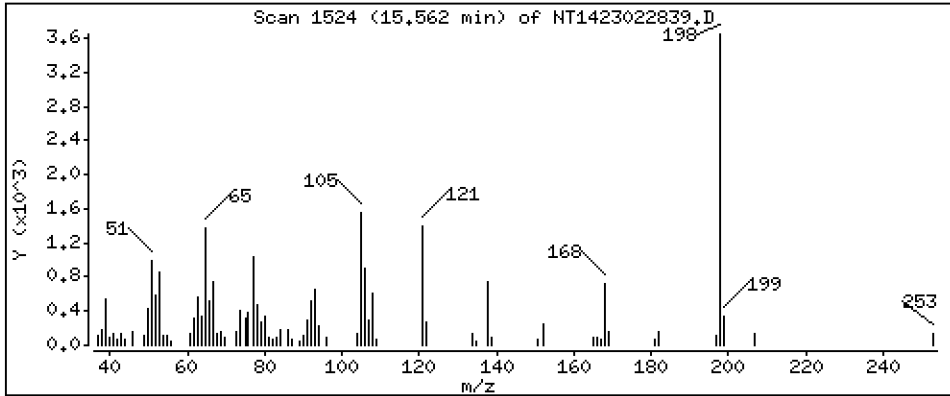
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

53 4,6-Dinitro-2-methylphenol

Concentration: 0.7601 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

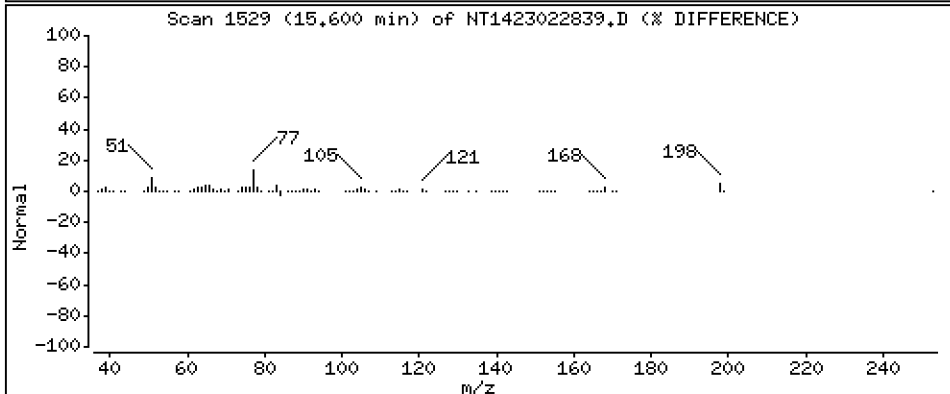
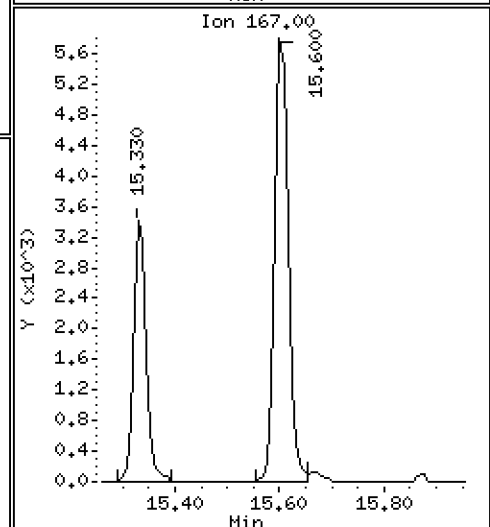
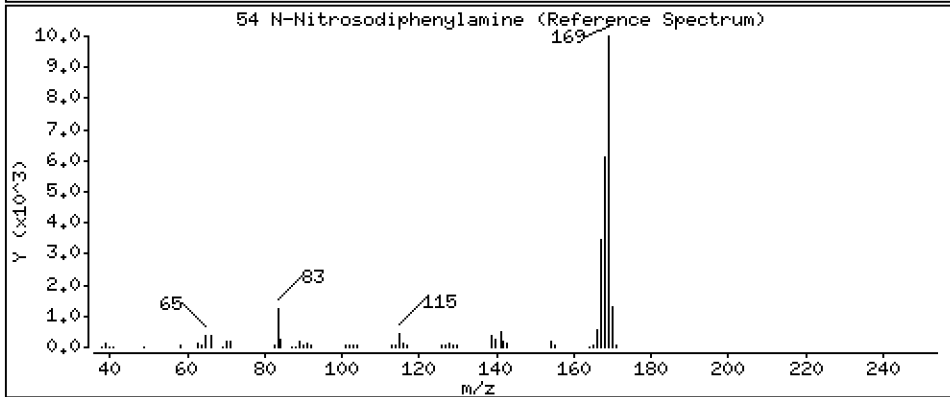
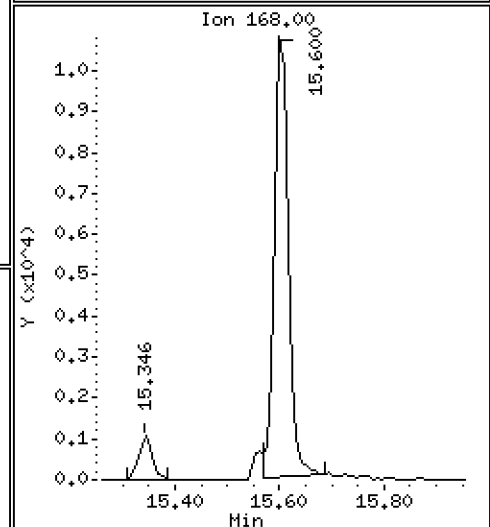
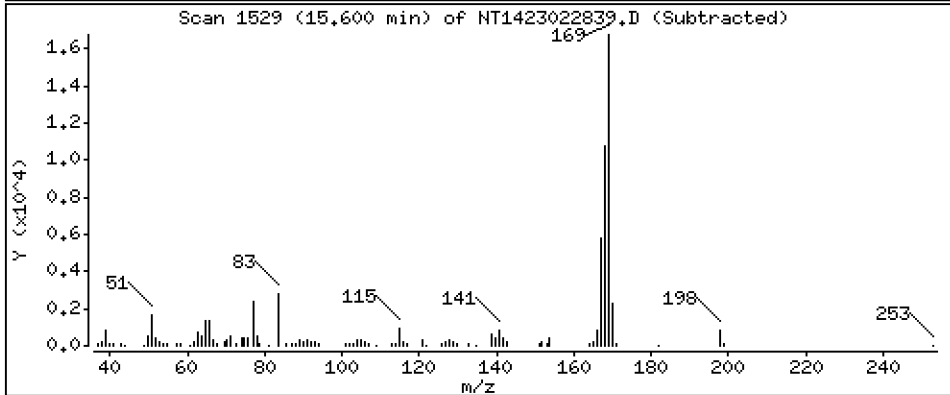
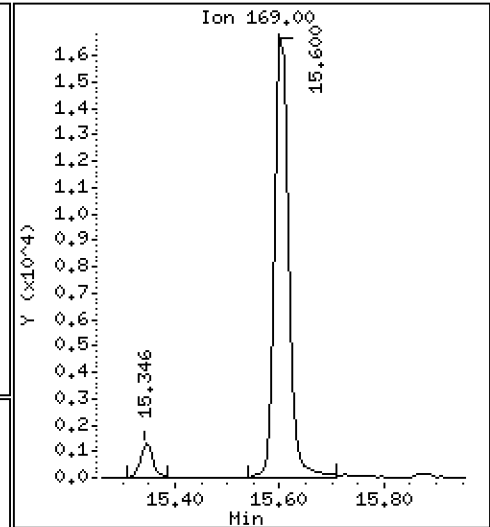
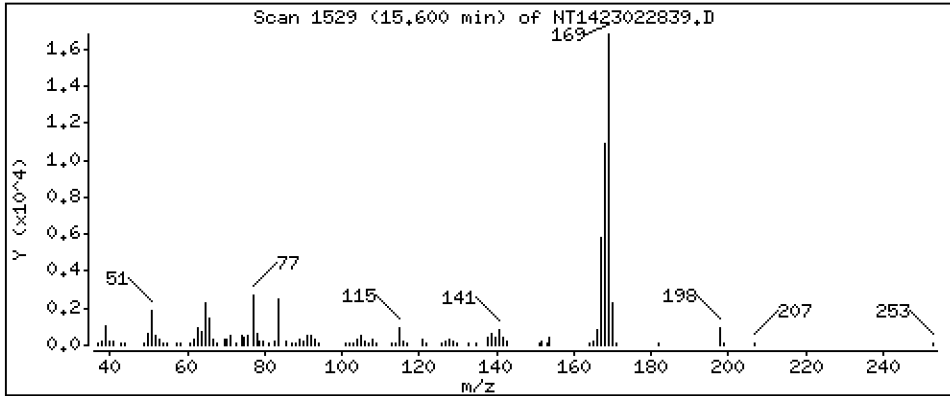
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

54 N-Nitrosodiphenylamine

Concentration: 0,5643 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

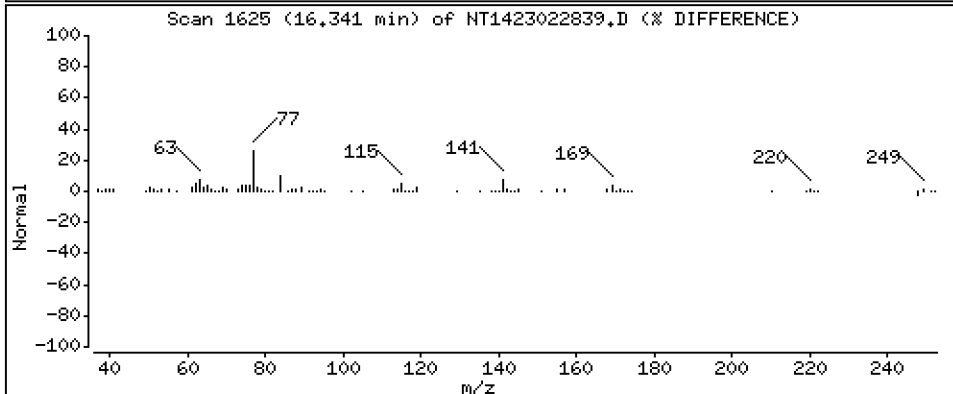
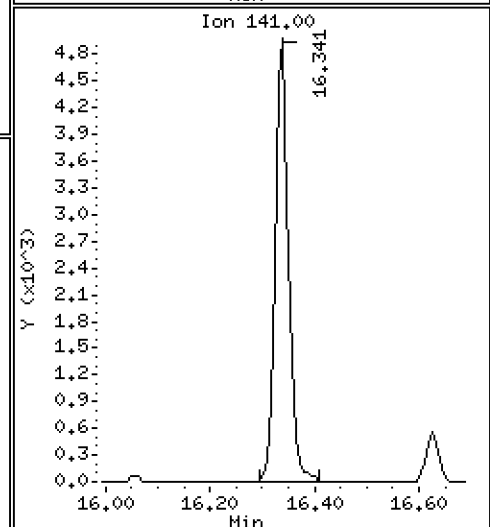
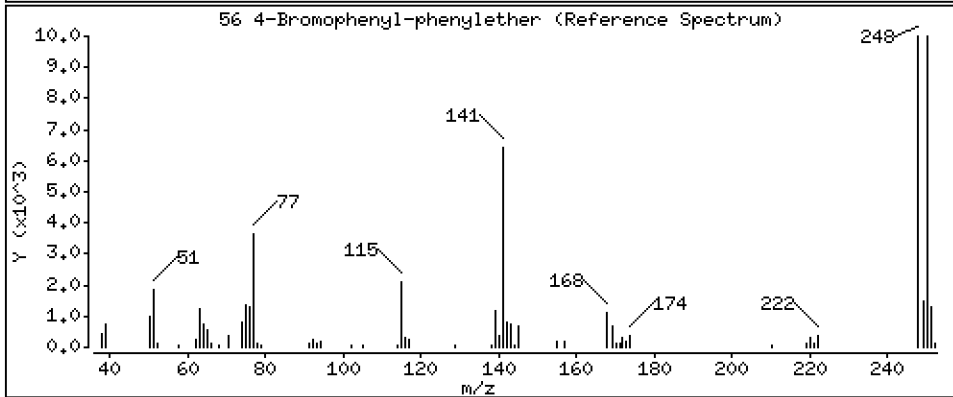
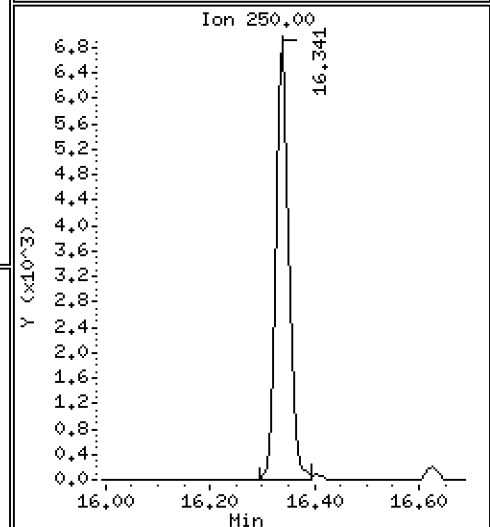
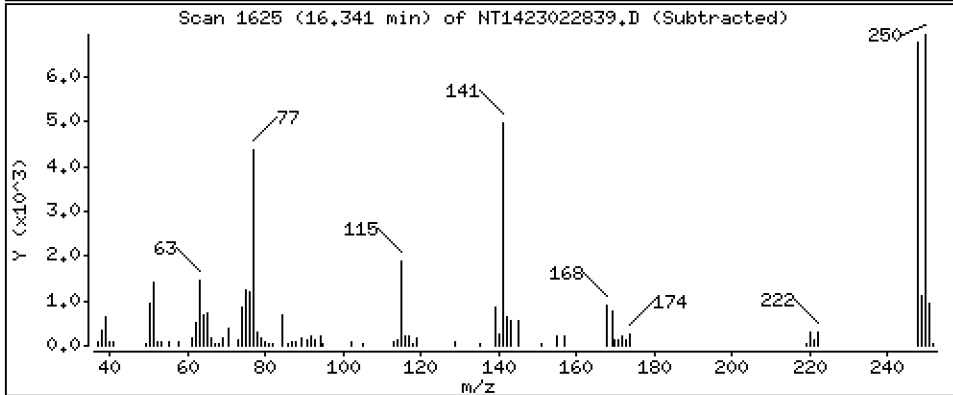
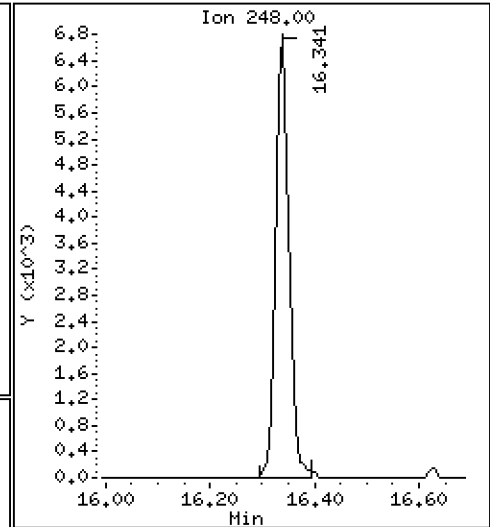
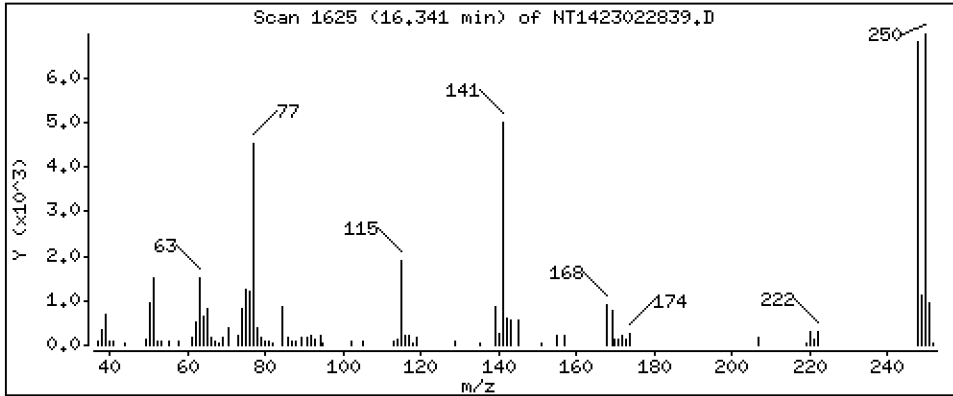
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 0,5071 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

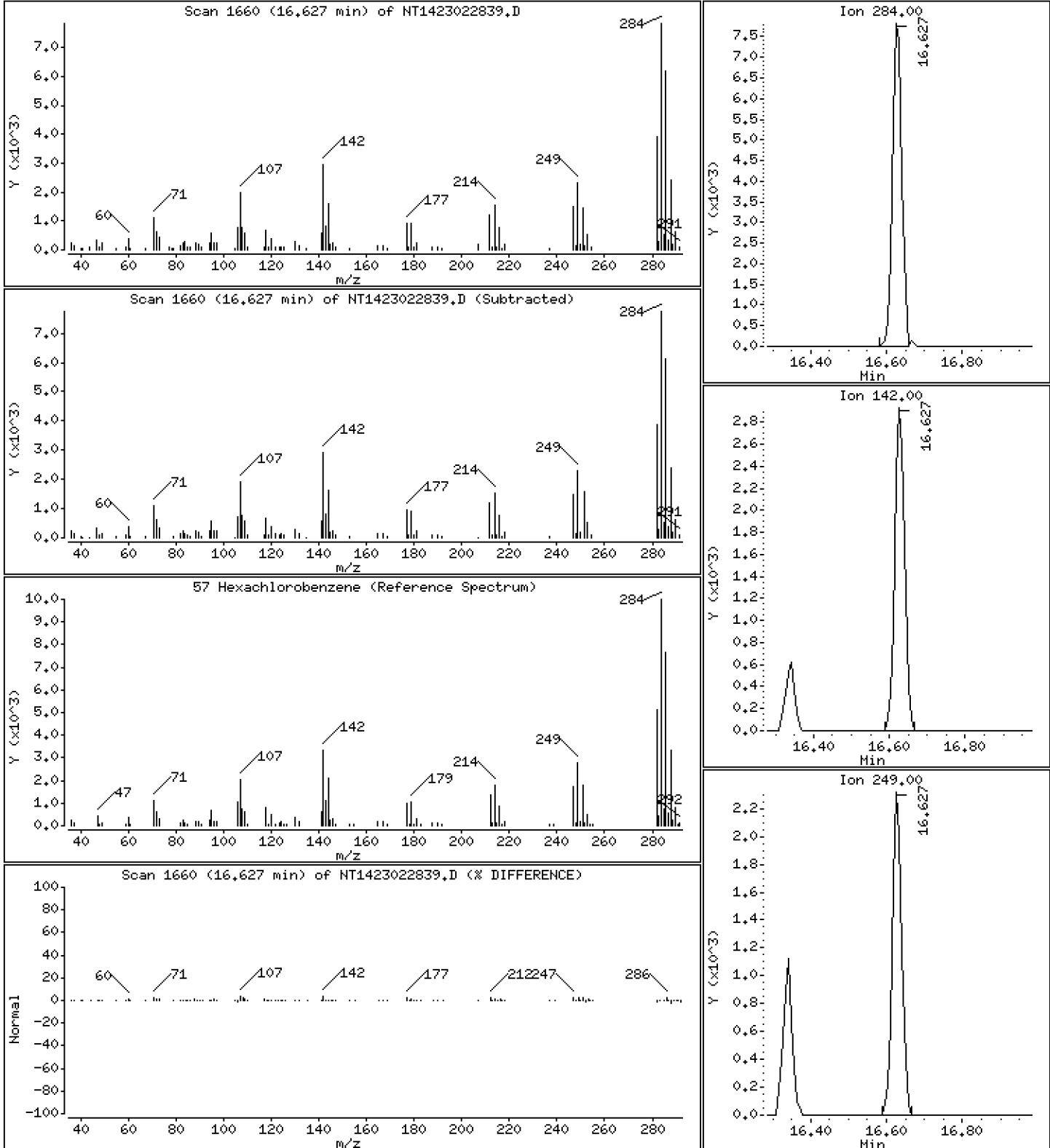
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

57 Hexachlorobenzene

Concentration: 0.5253 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

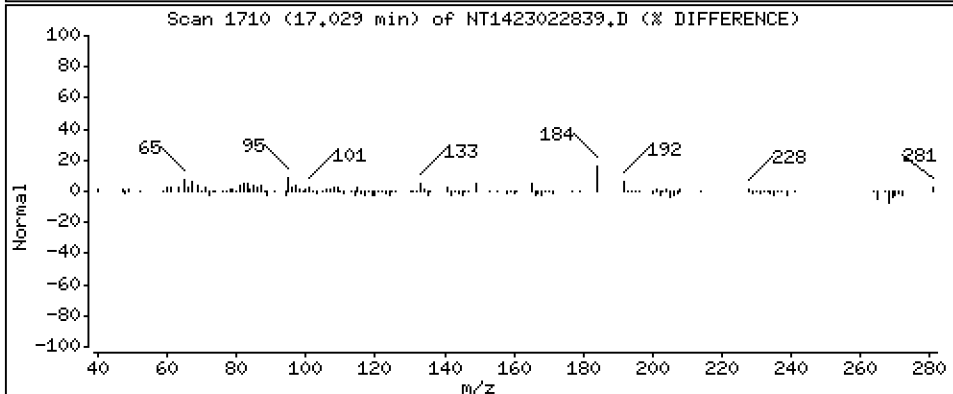
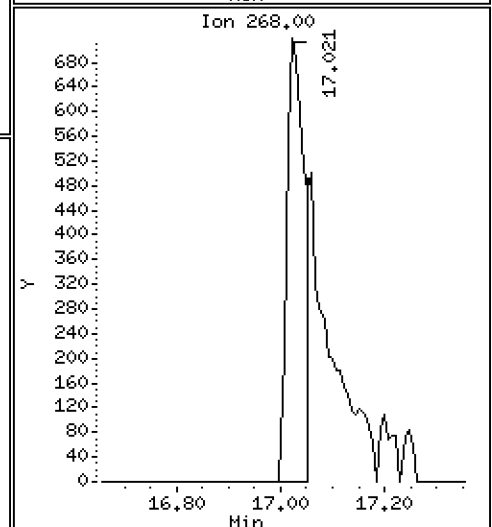
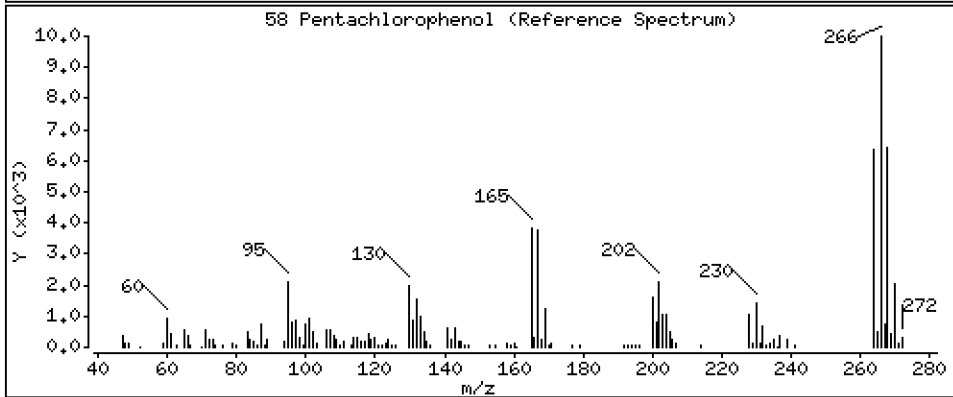
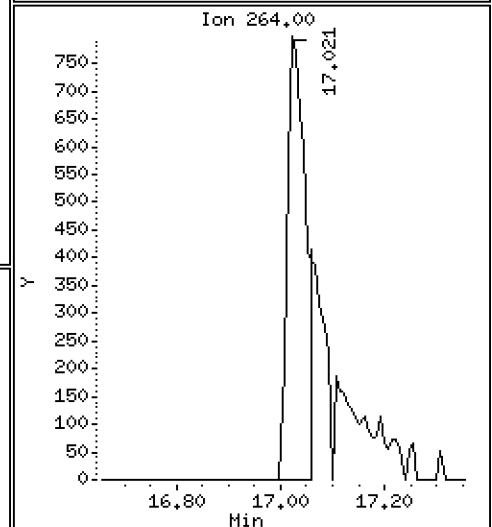
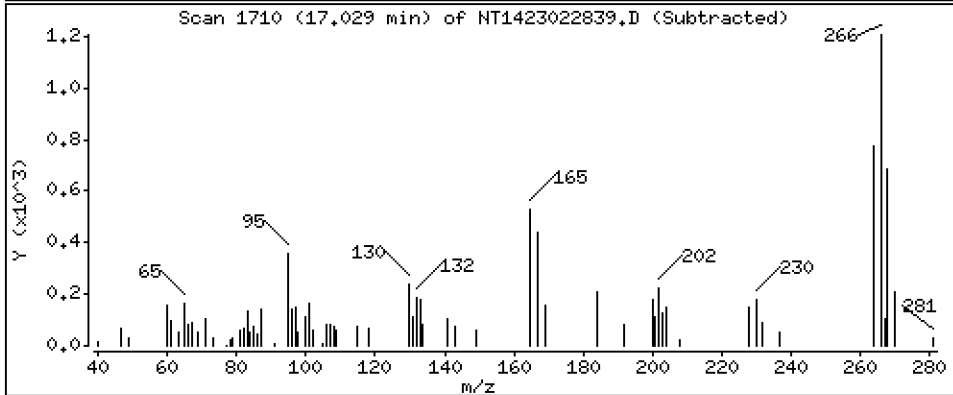
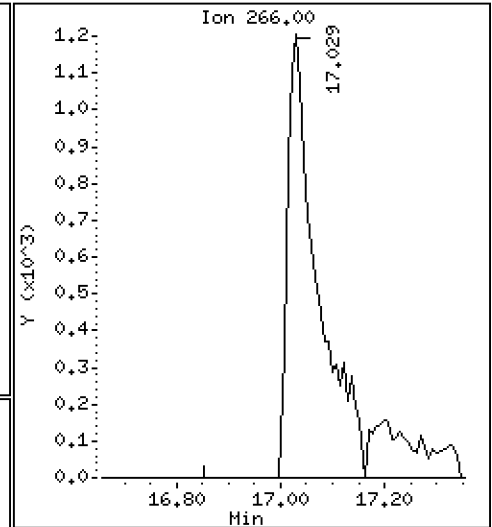
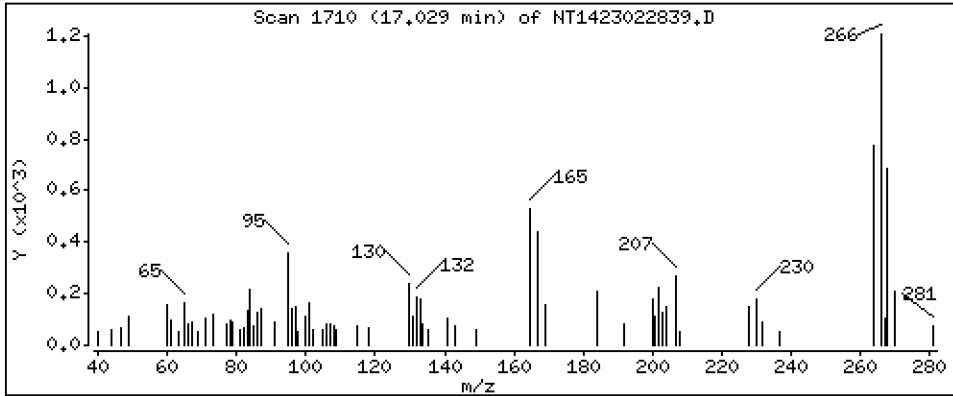
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

58 Pentachlorophenol

Concentration: 0.5024 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

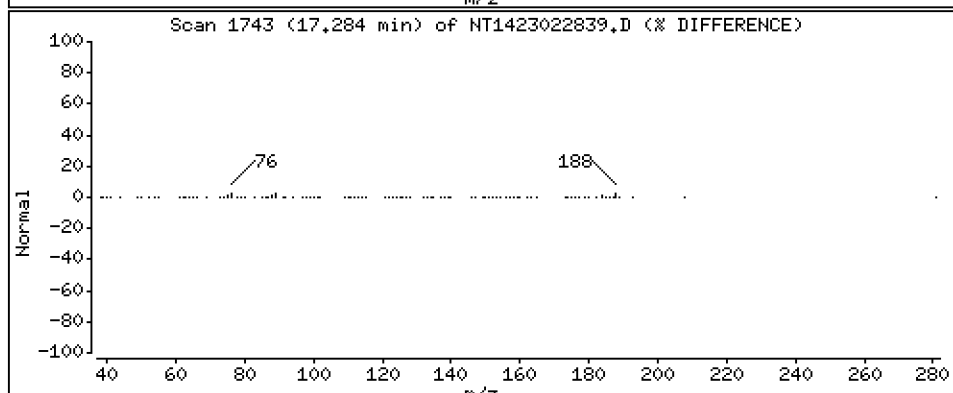
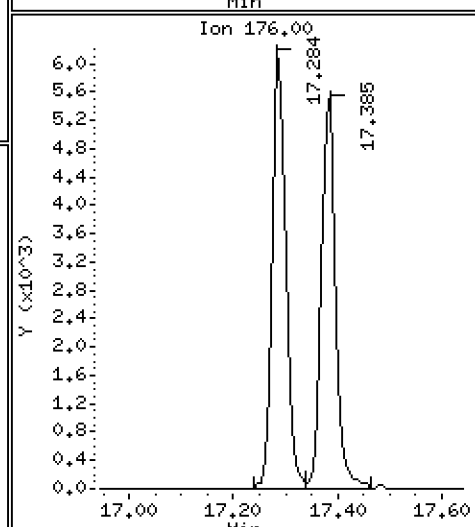
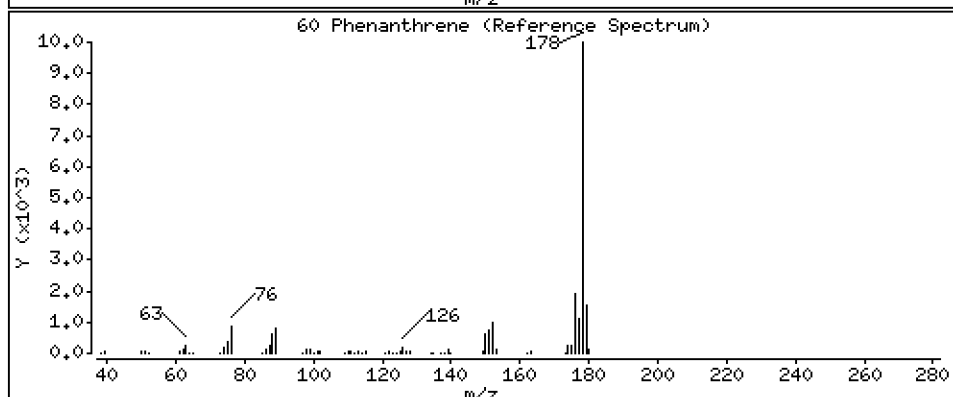
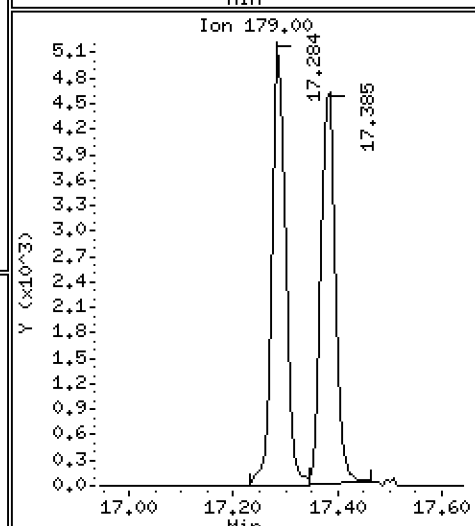
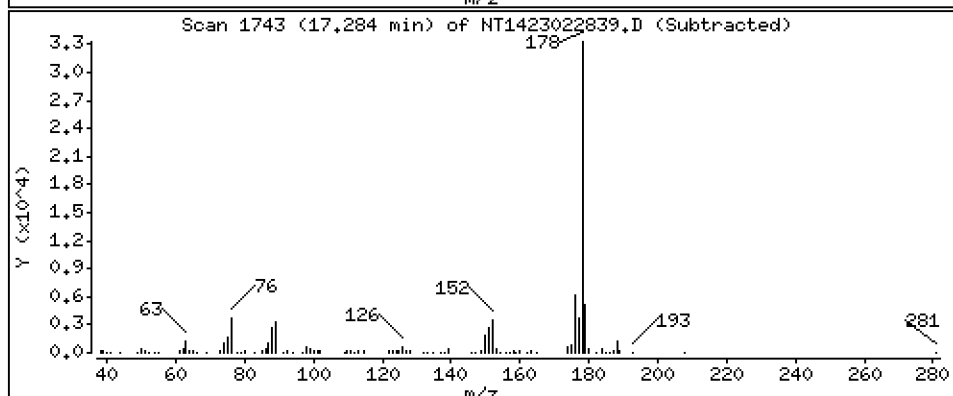
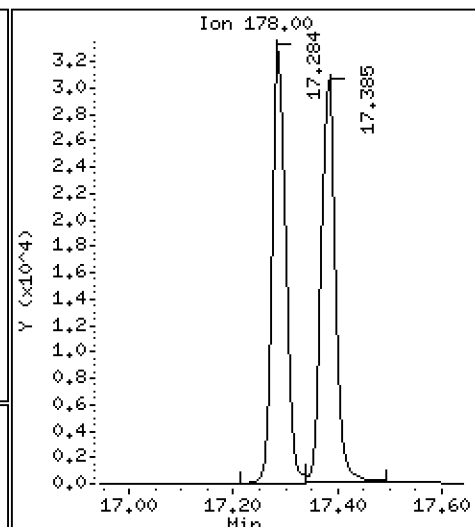
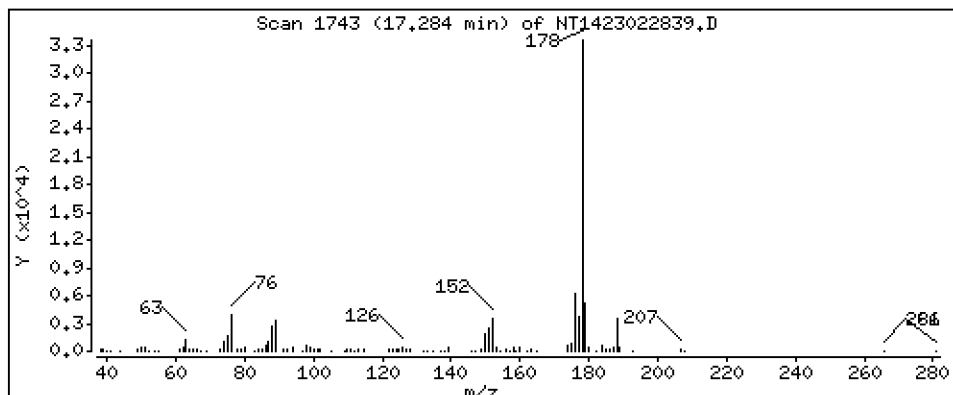
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 0,5152 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

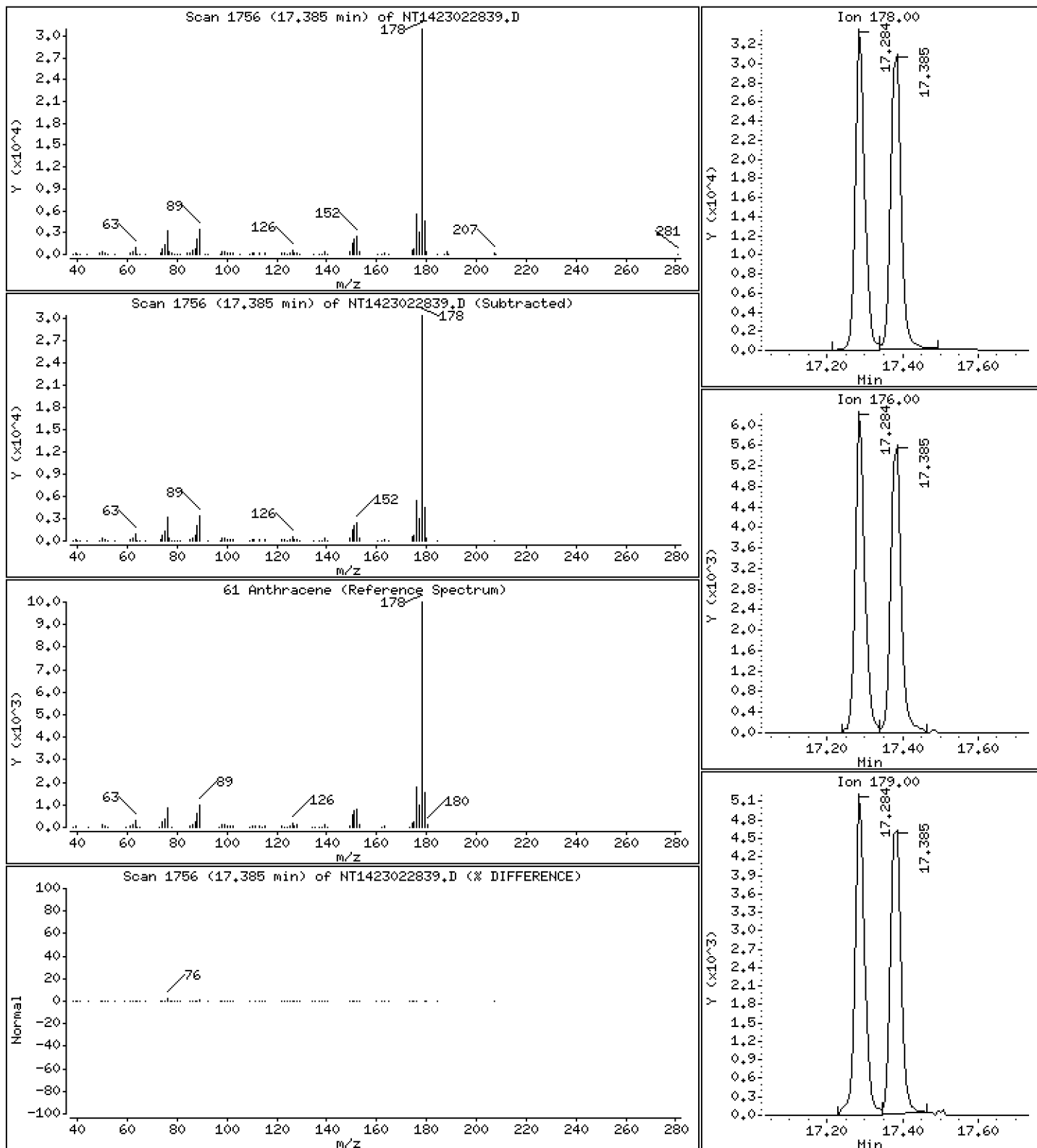
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 0,5316 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

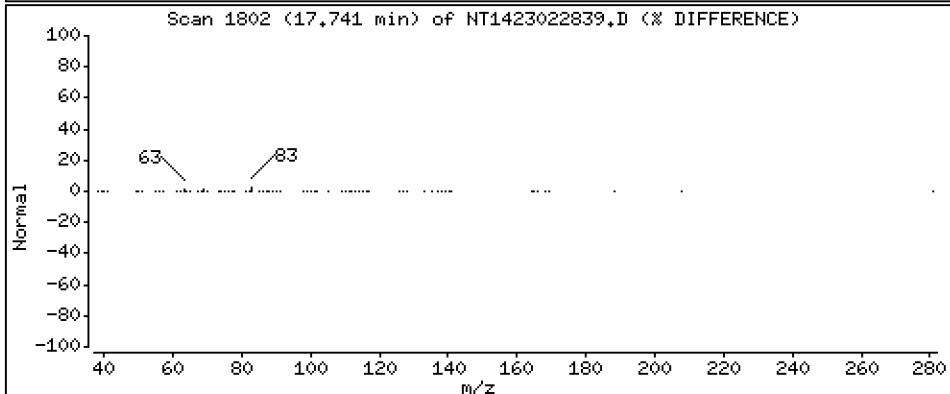
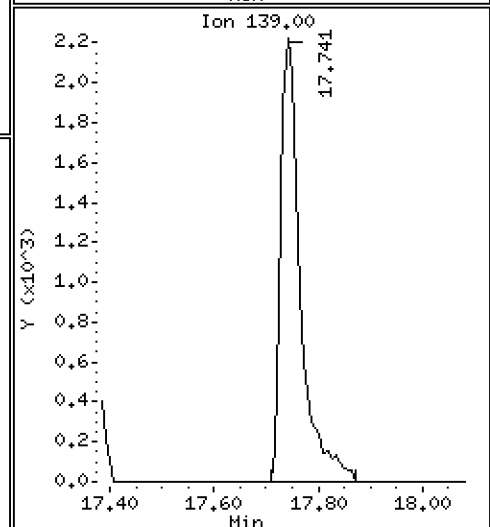
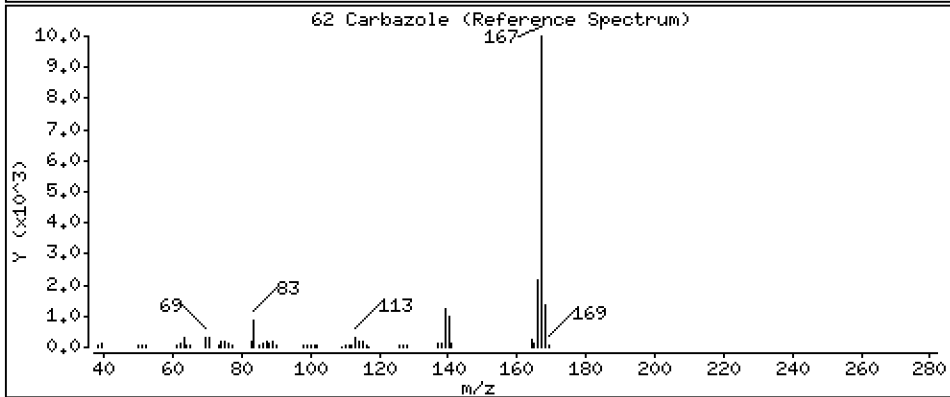
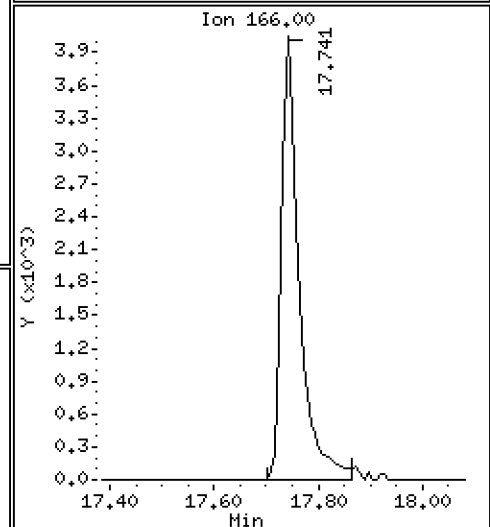
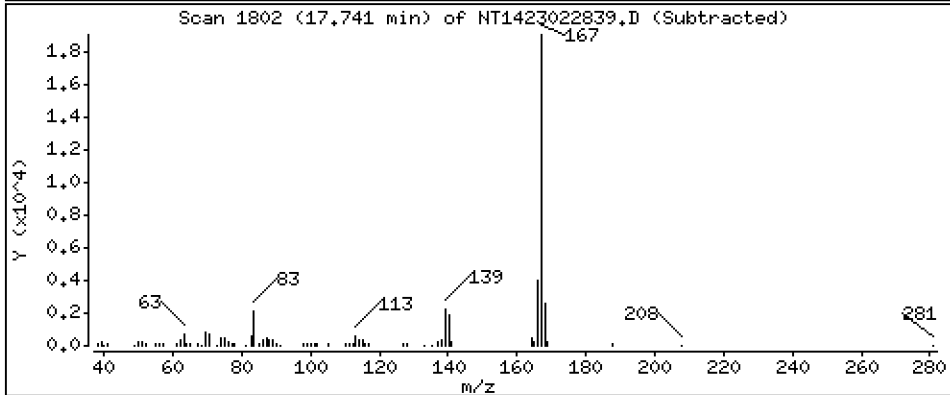
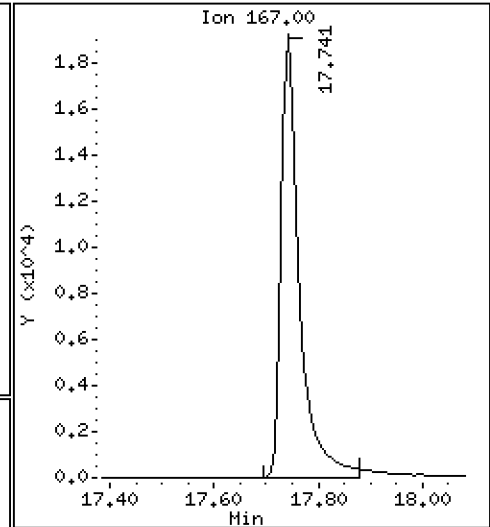
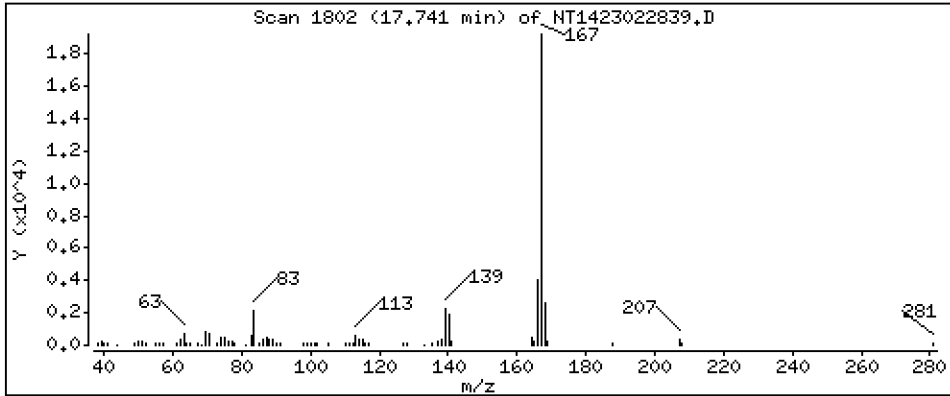
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 0,4911 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

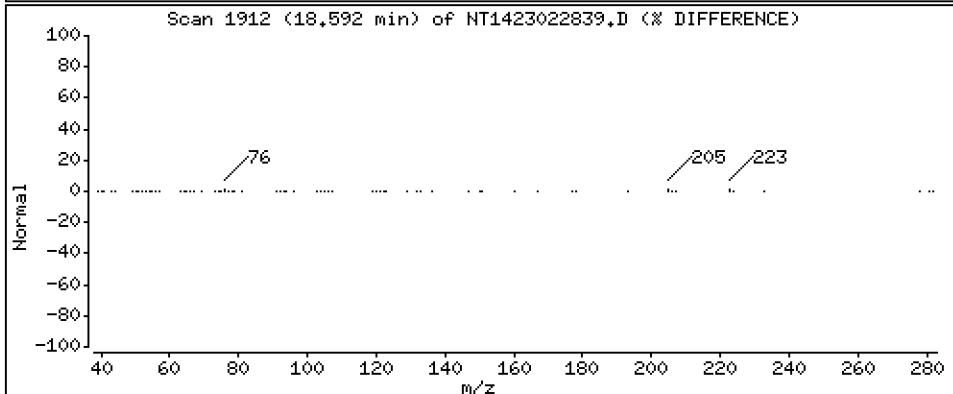
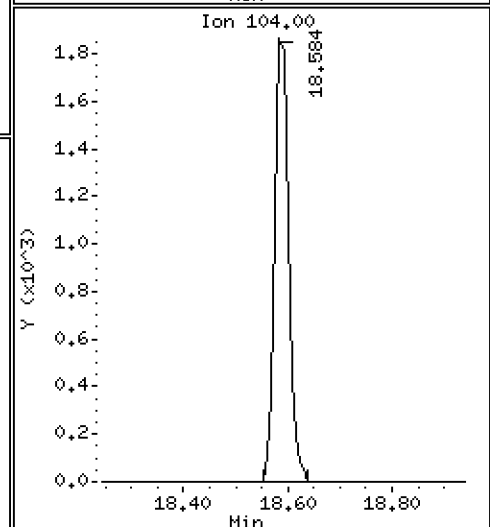
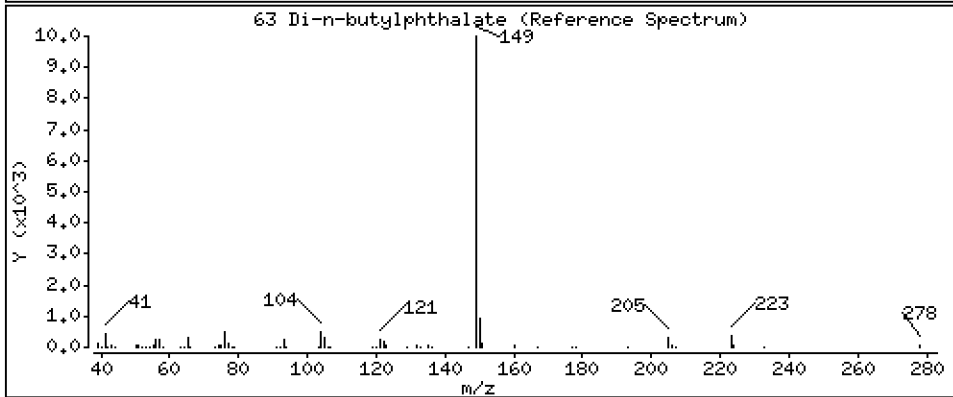
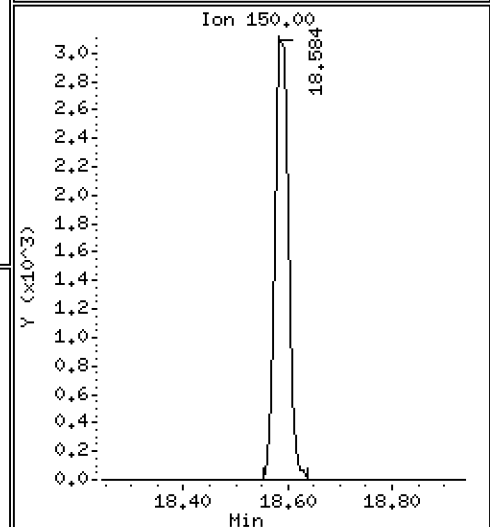
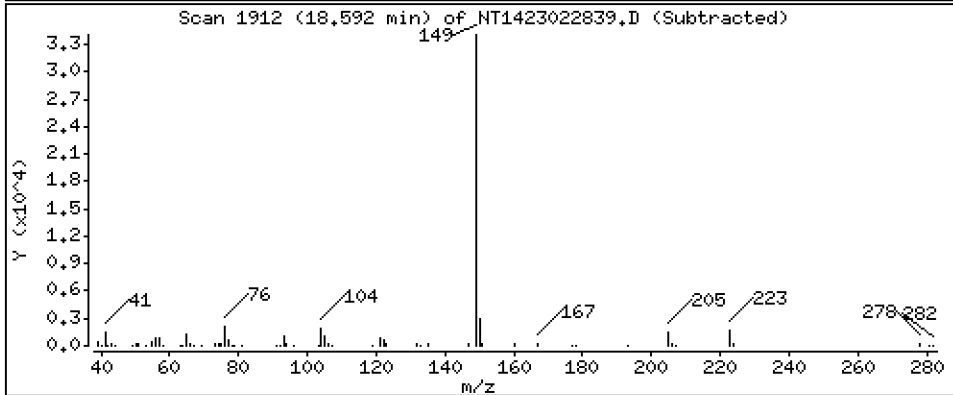
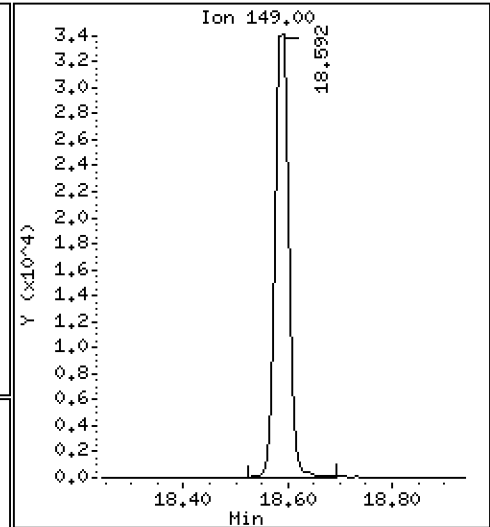
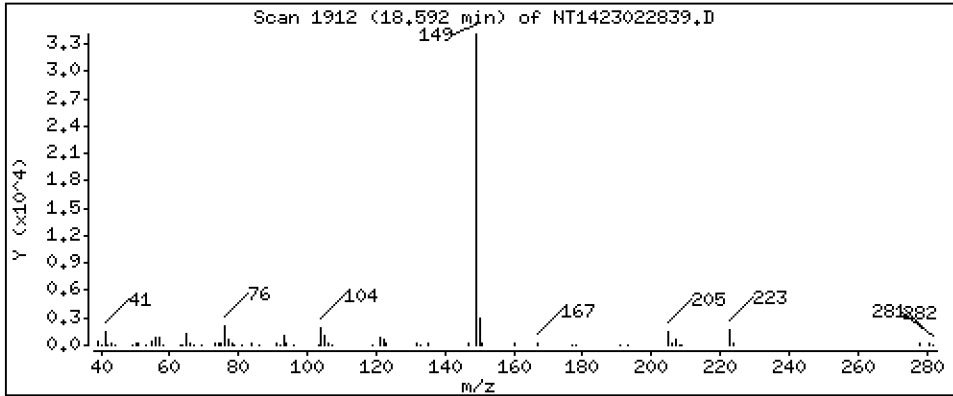
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 0,4957 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

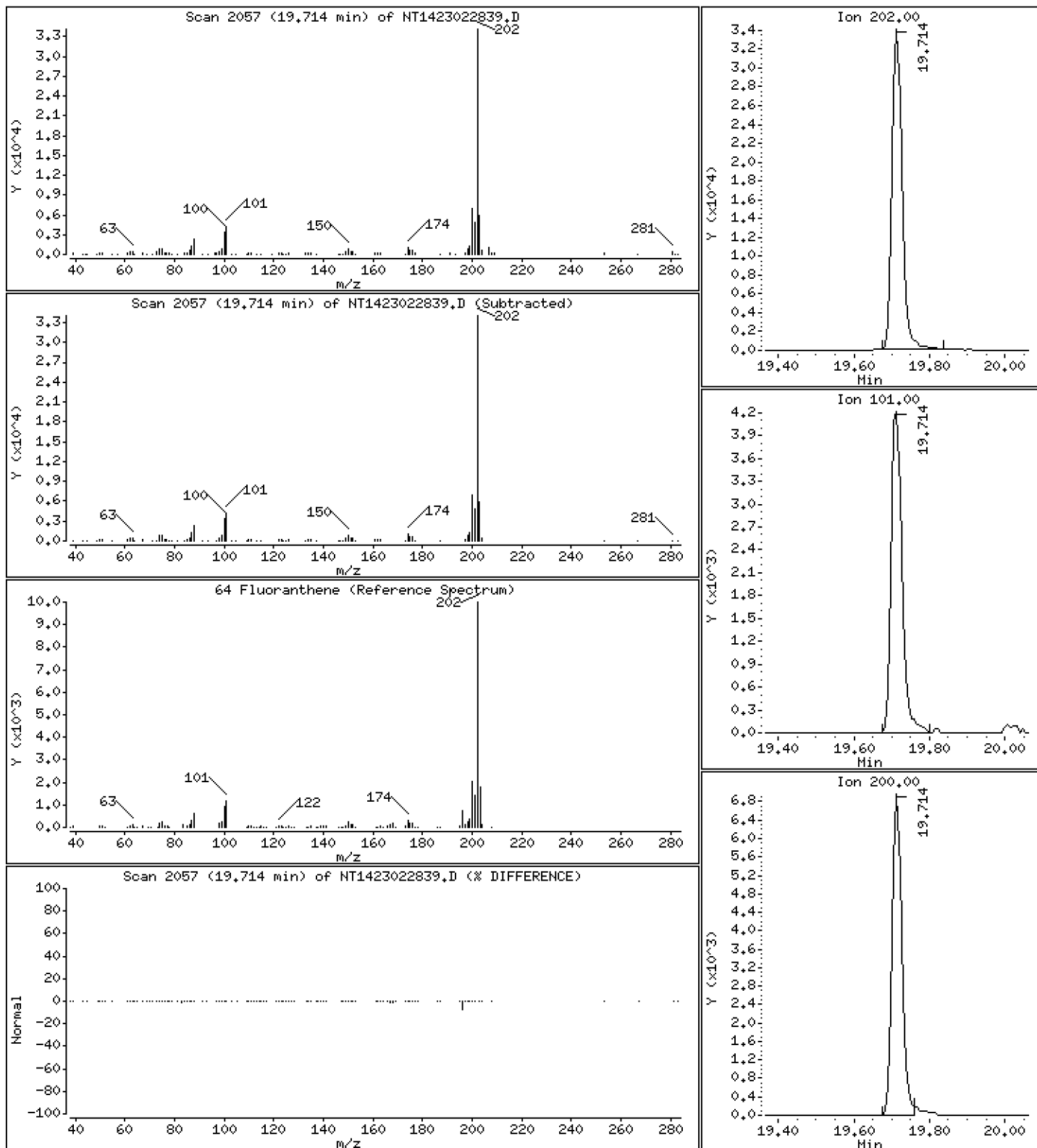
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 0,4678 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

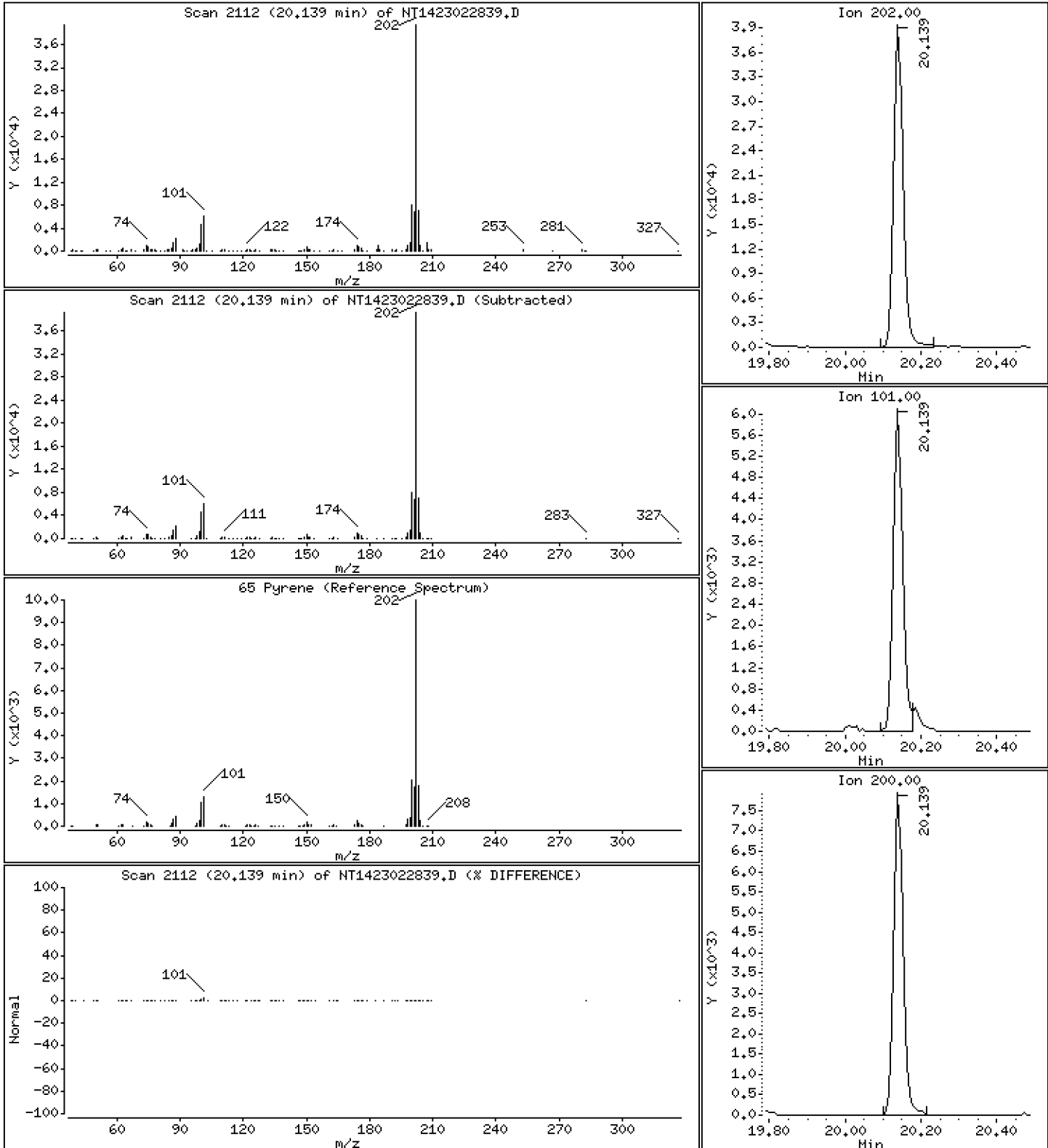
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 0,4742 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

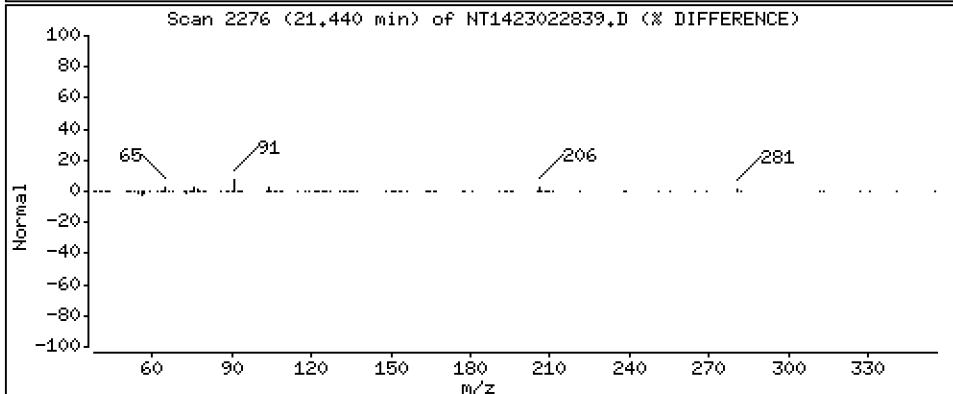
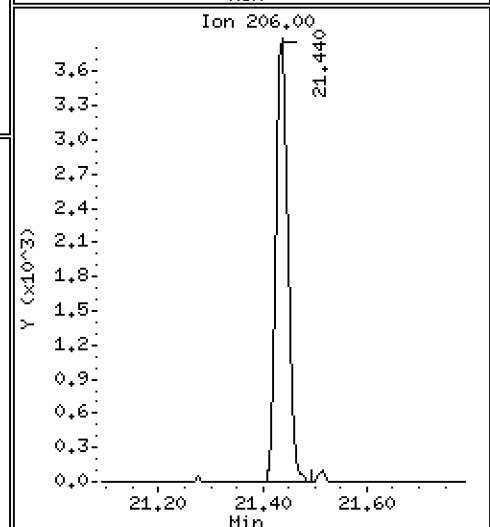
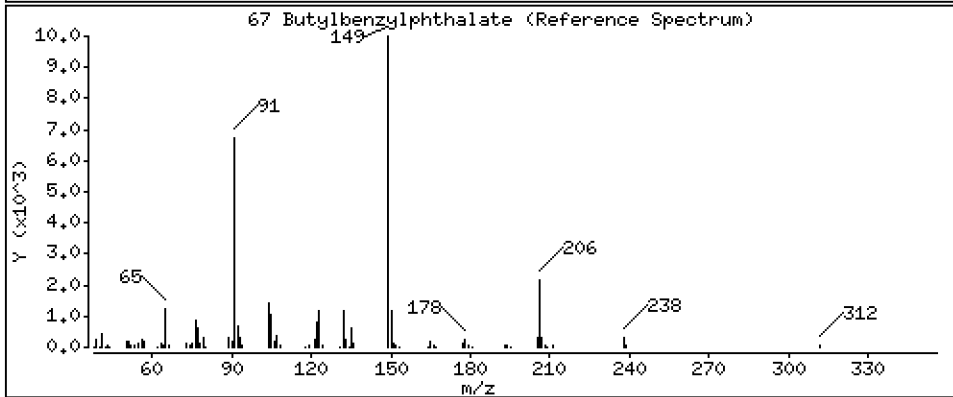
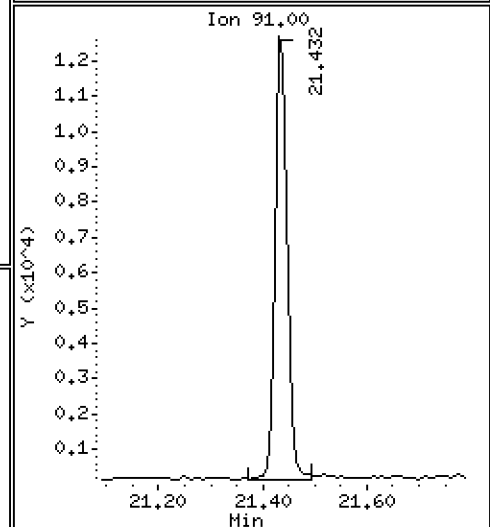
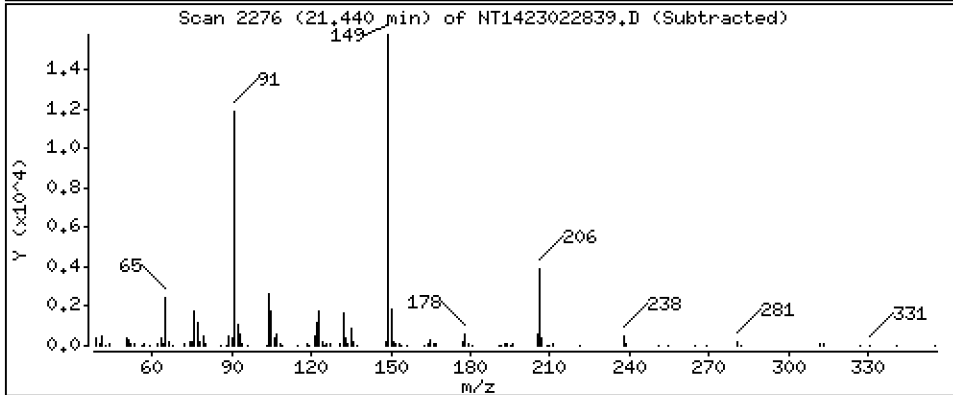
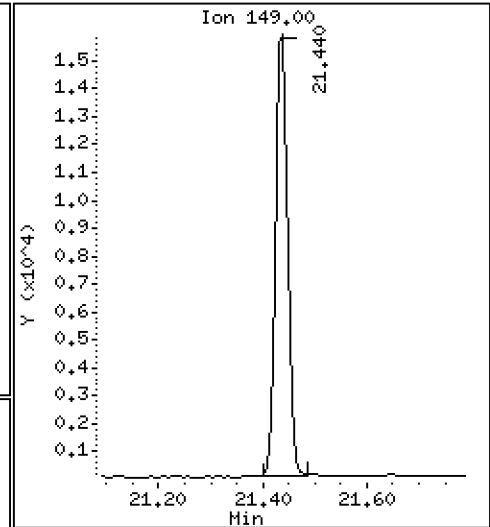
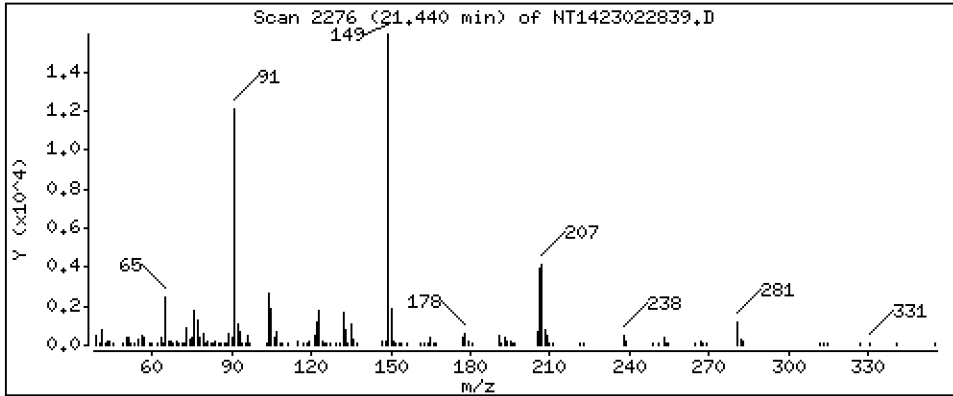
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 0,5034 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

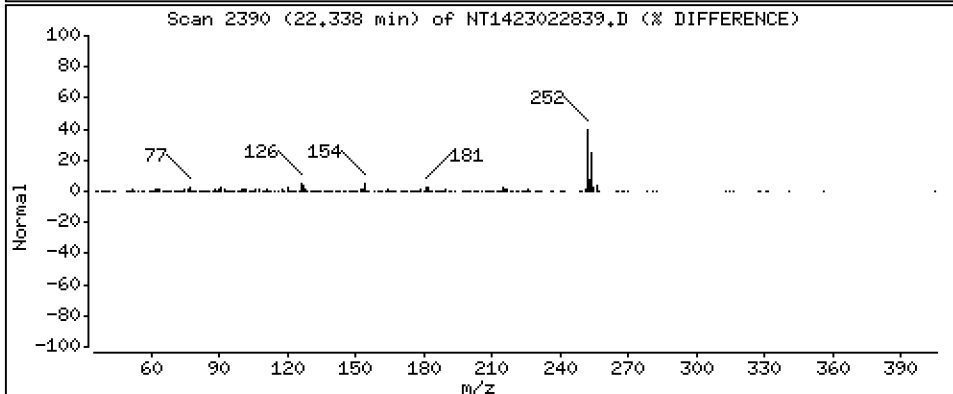
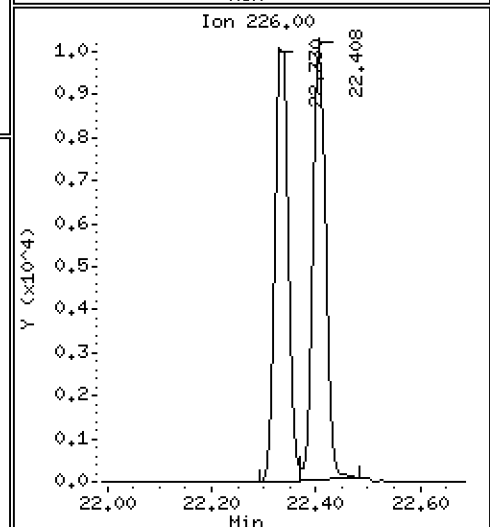
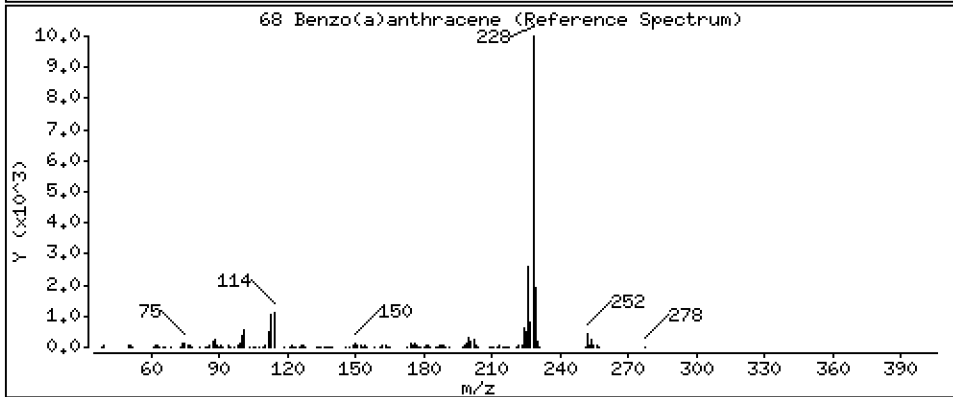
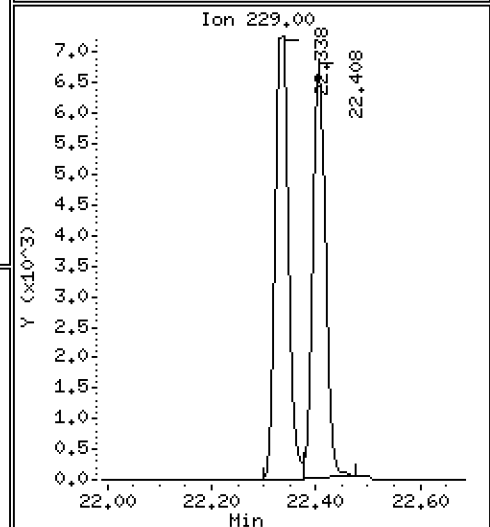
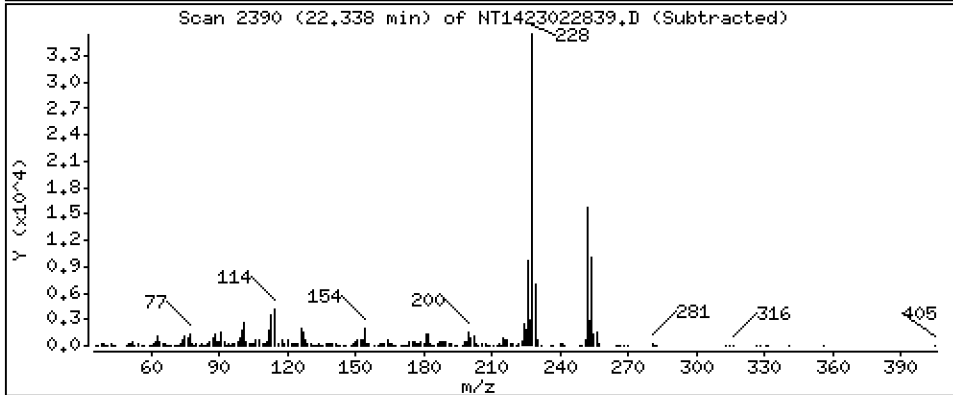
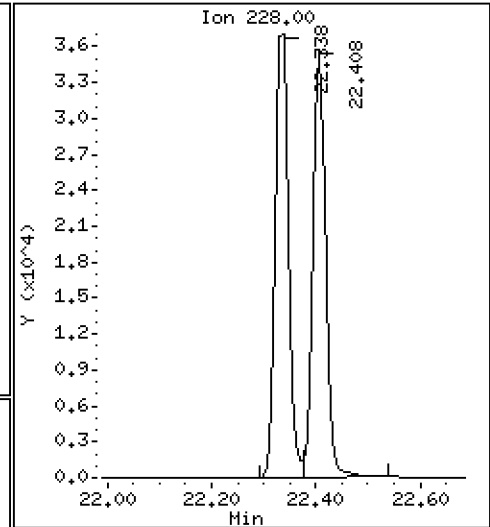
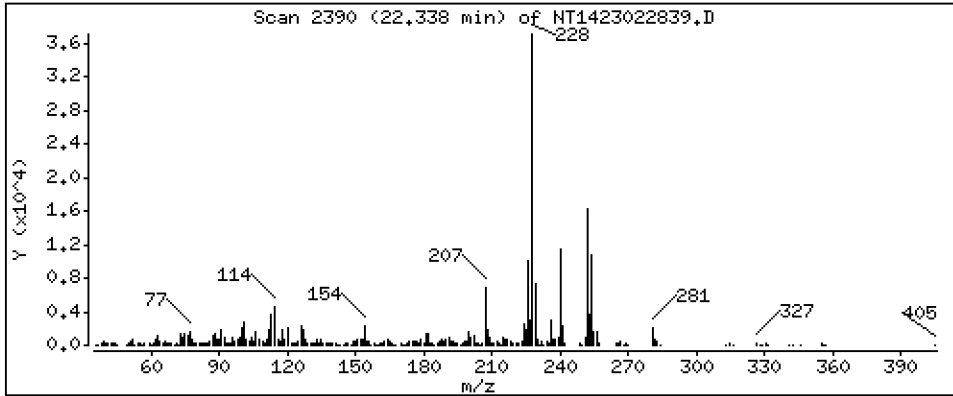
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 0,5467 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

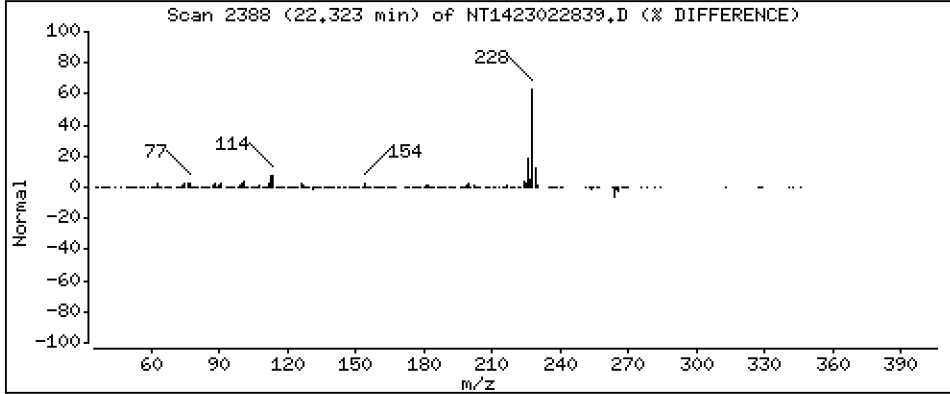
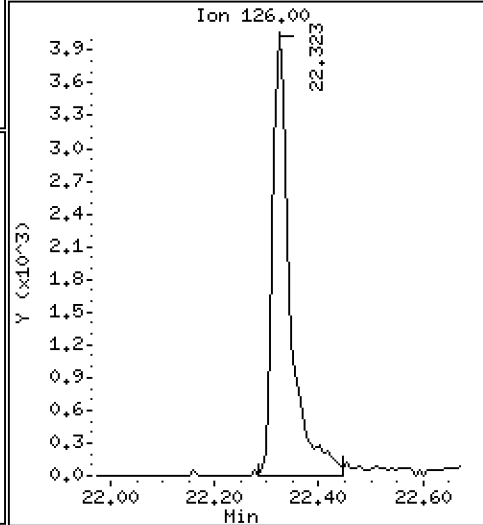
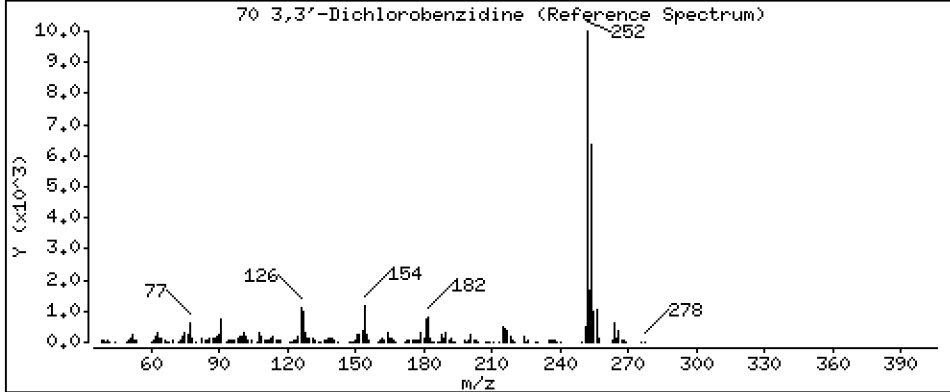
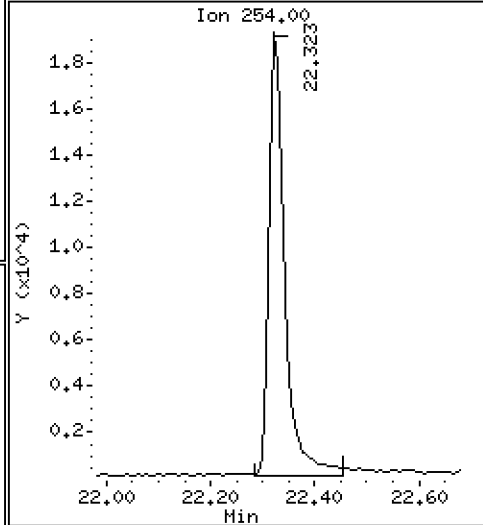
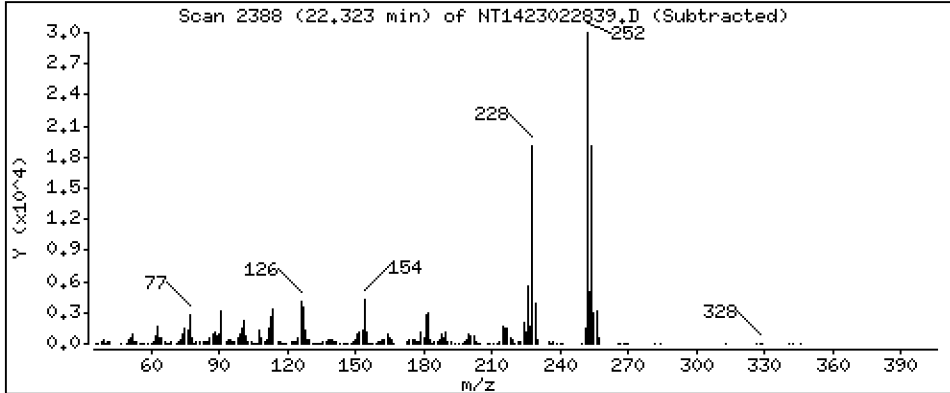
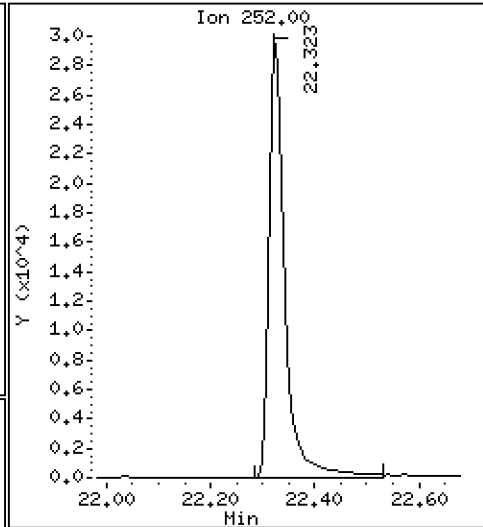
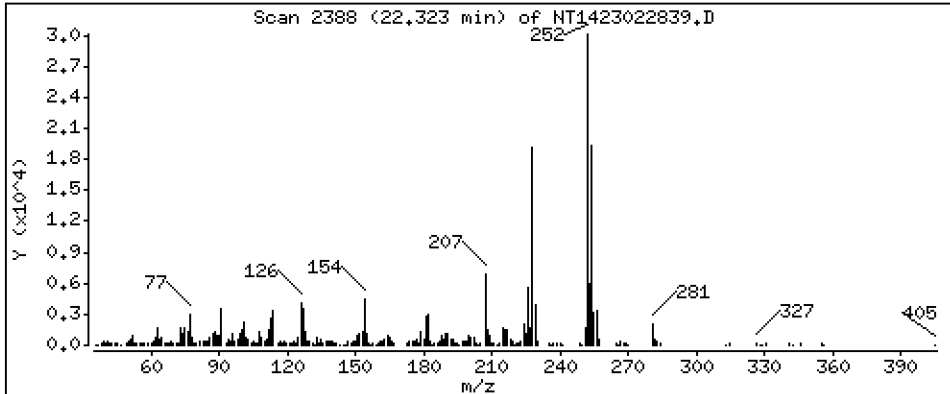
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

70 3,3'-Dichlorobenzidine

Concentration: 1,896 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

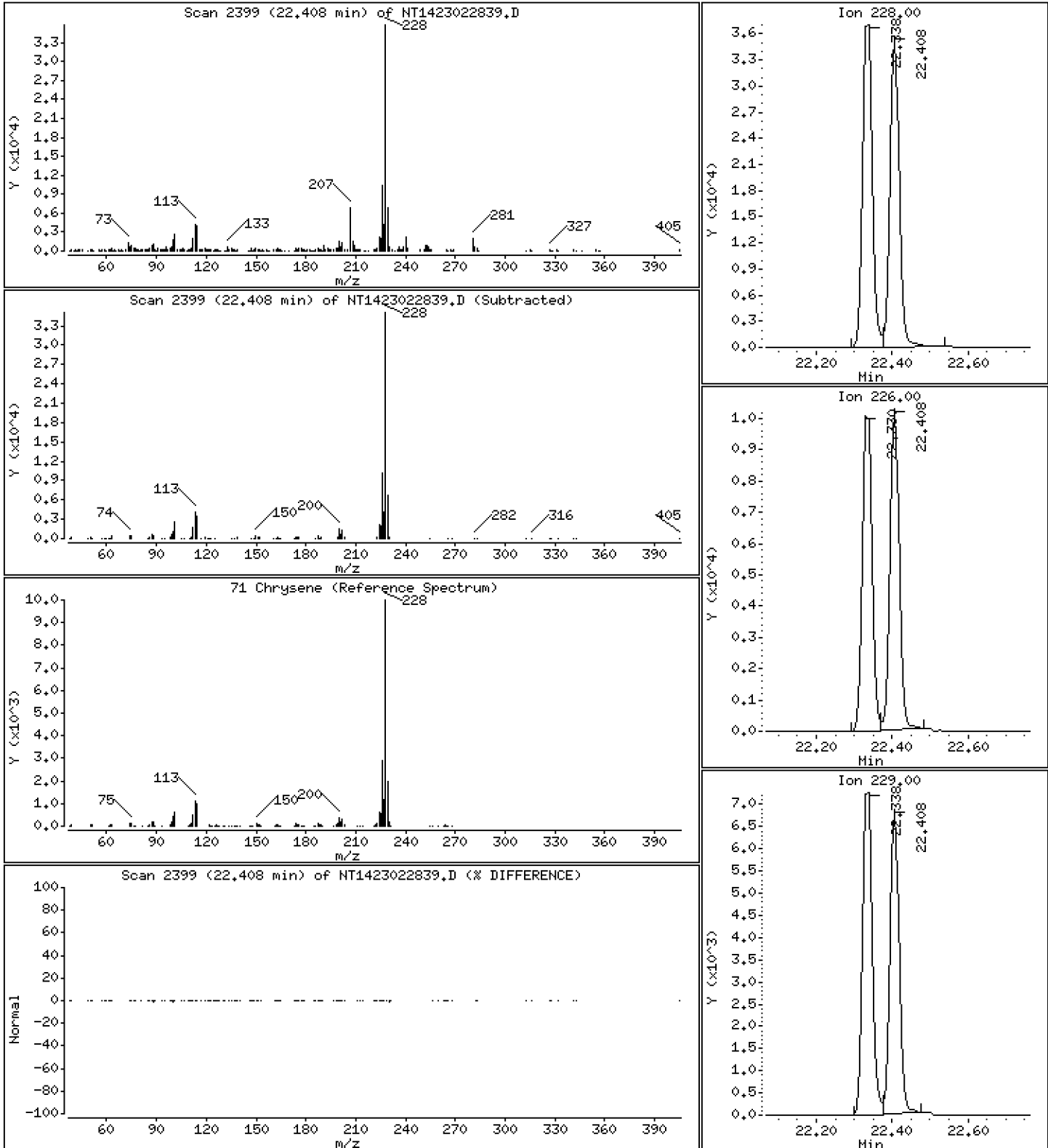
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 0,5253 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

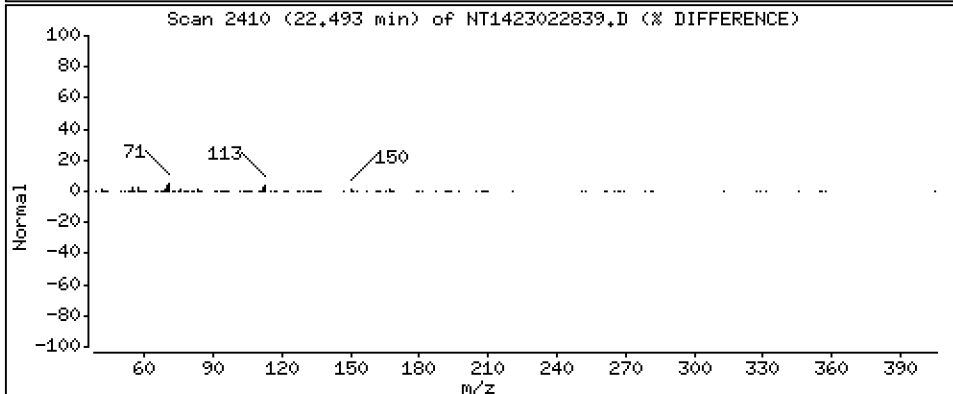
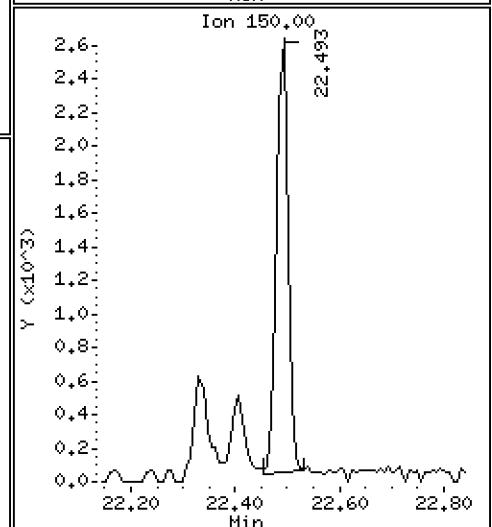
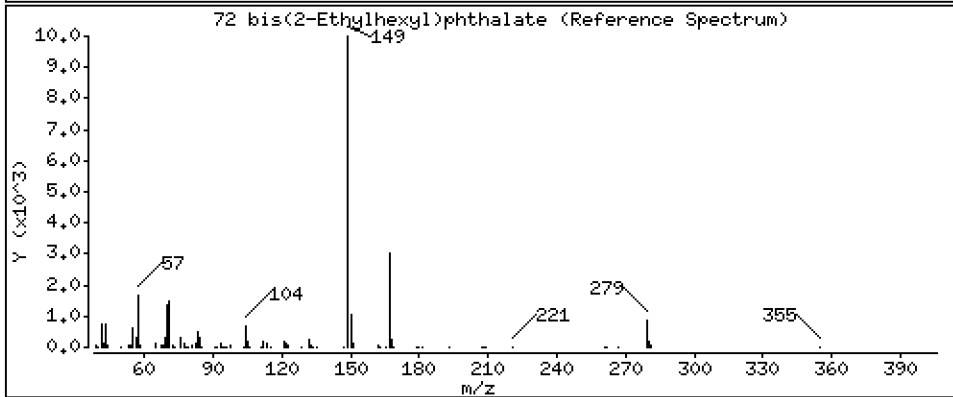
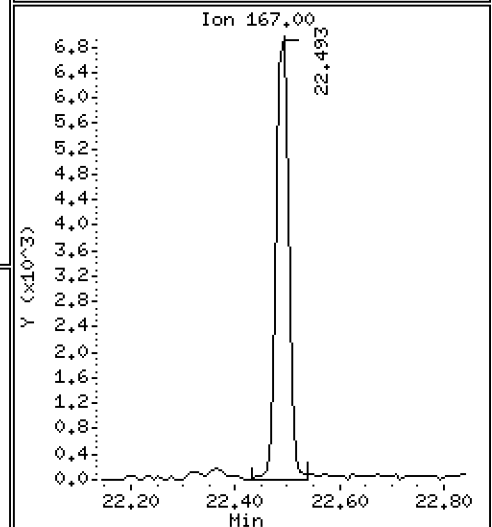
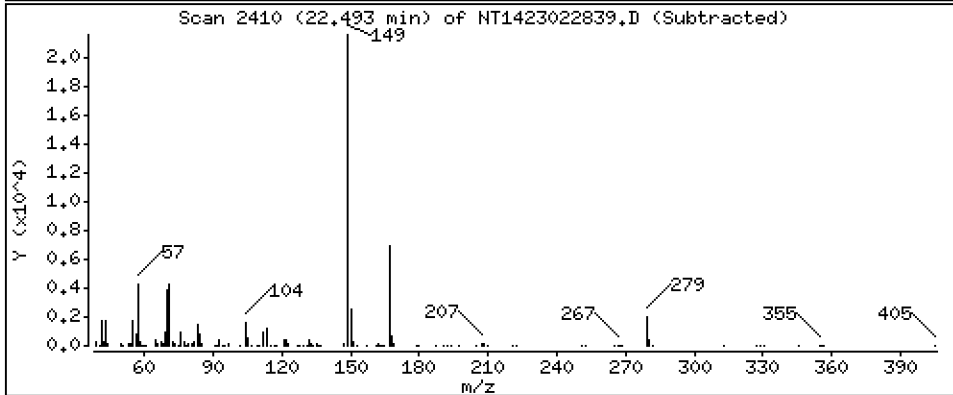
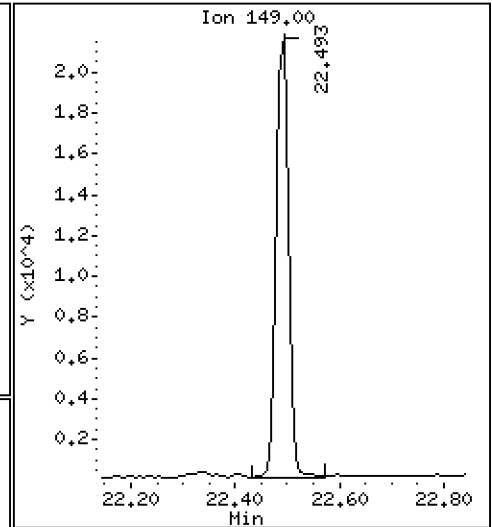
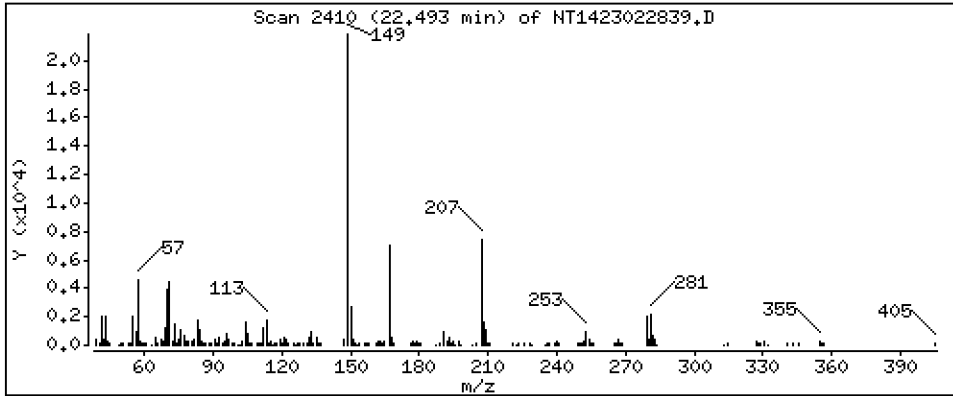
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 0,4583 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

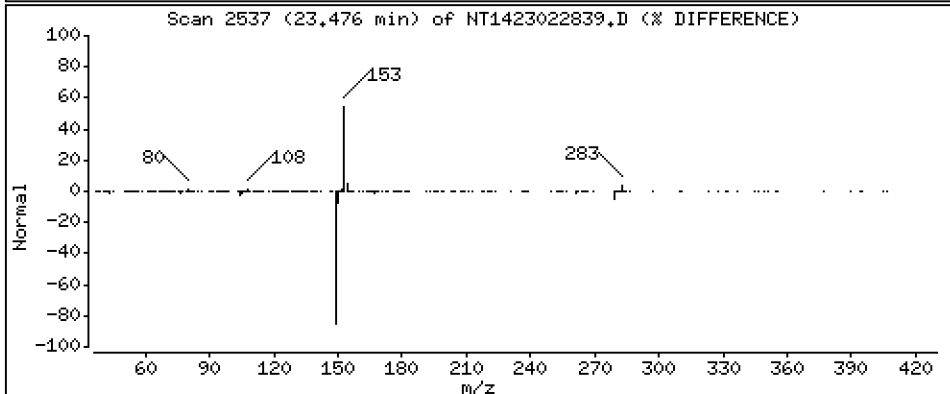
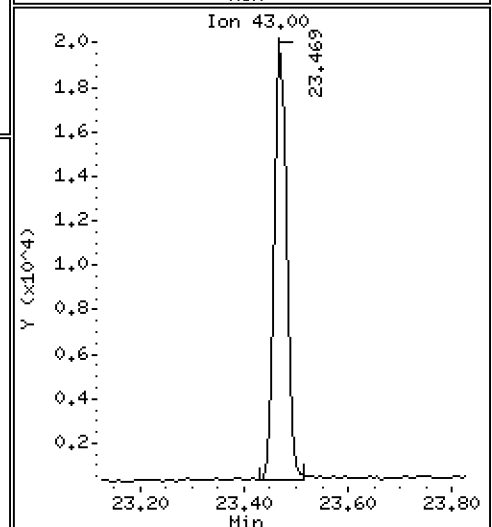
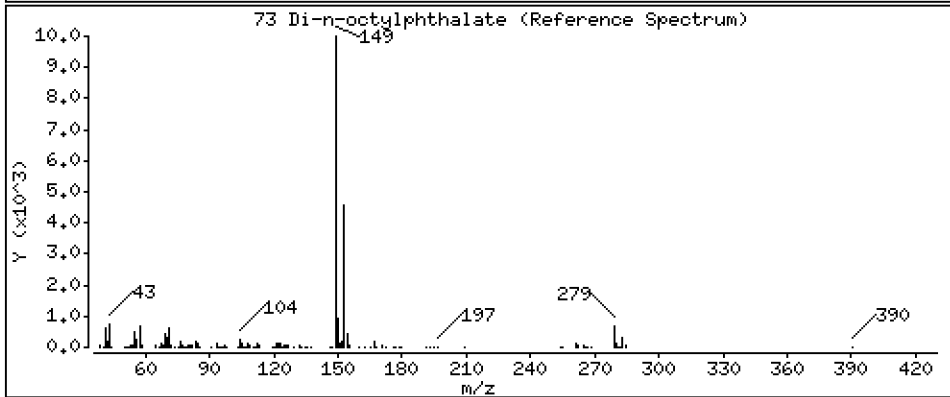
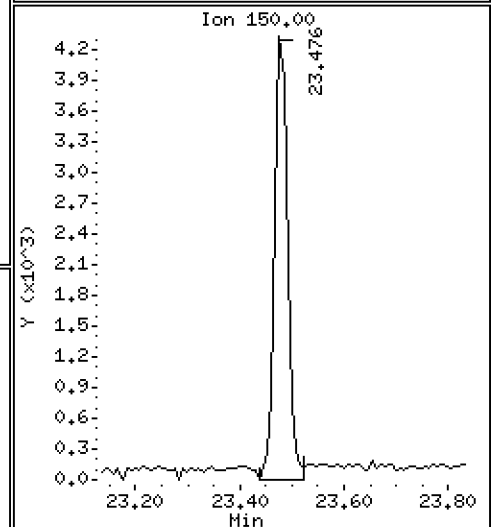
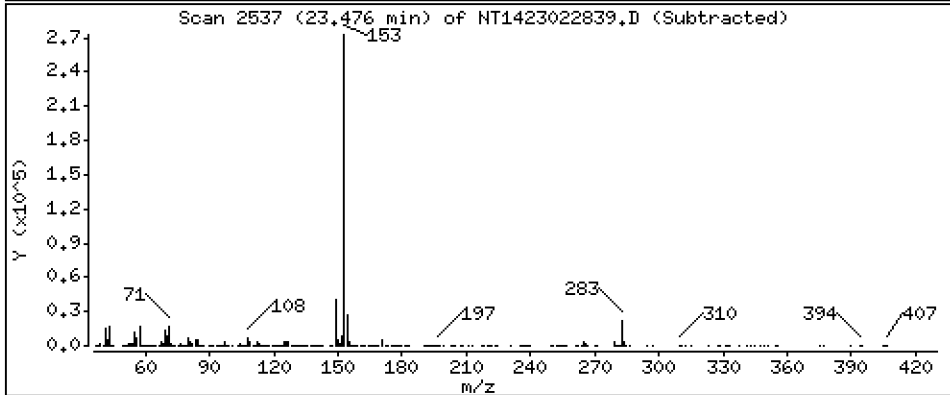
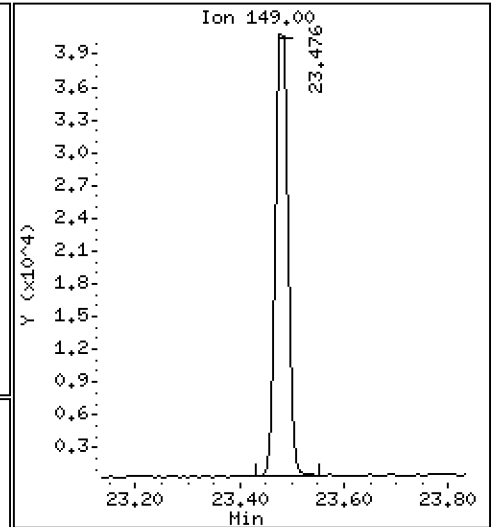
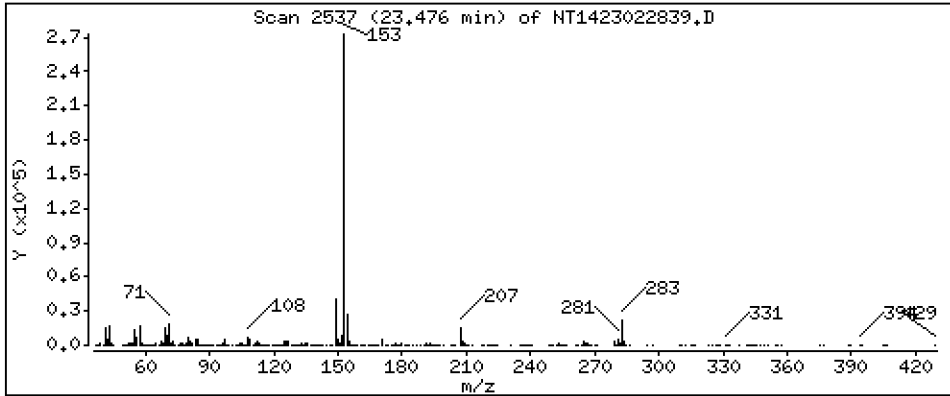
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 0,5038 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

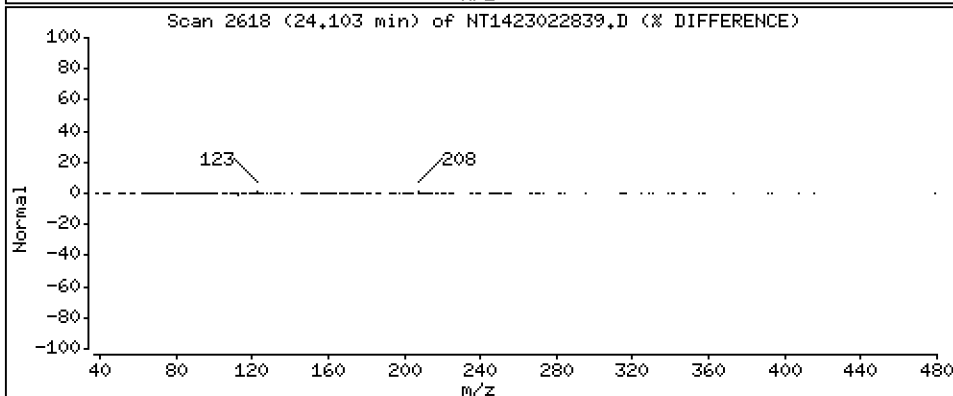
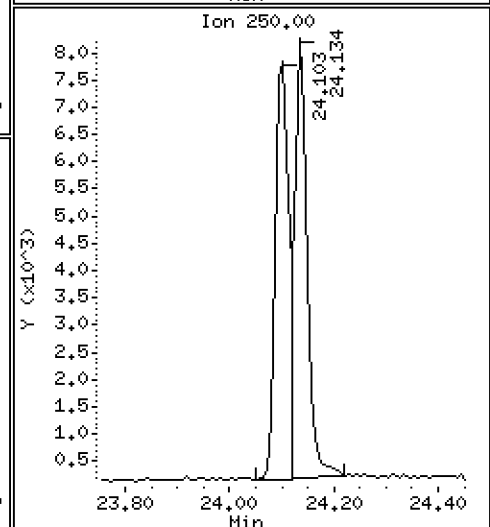
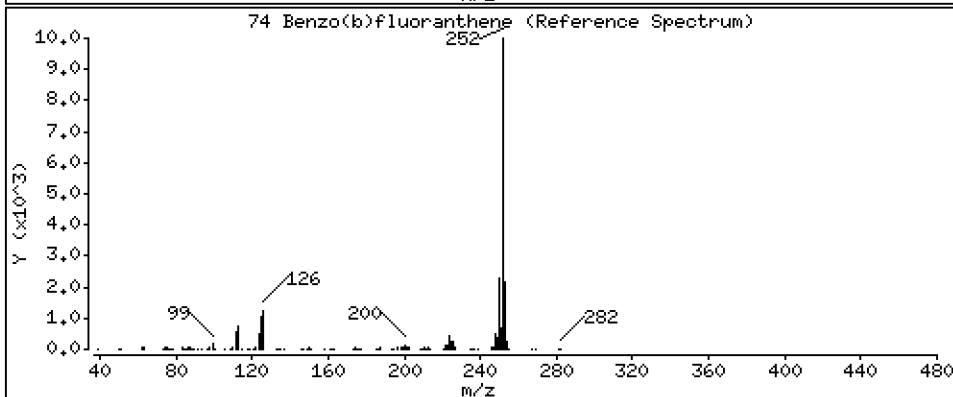
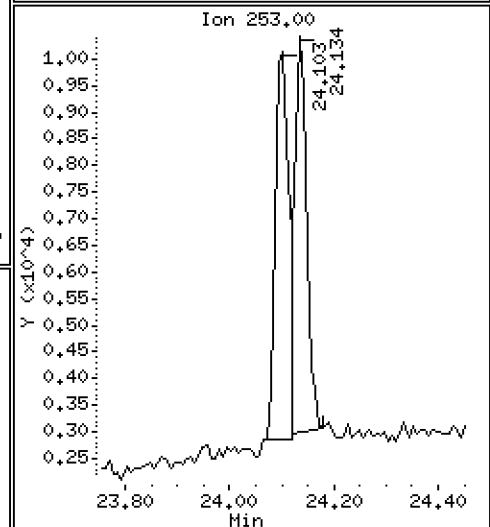
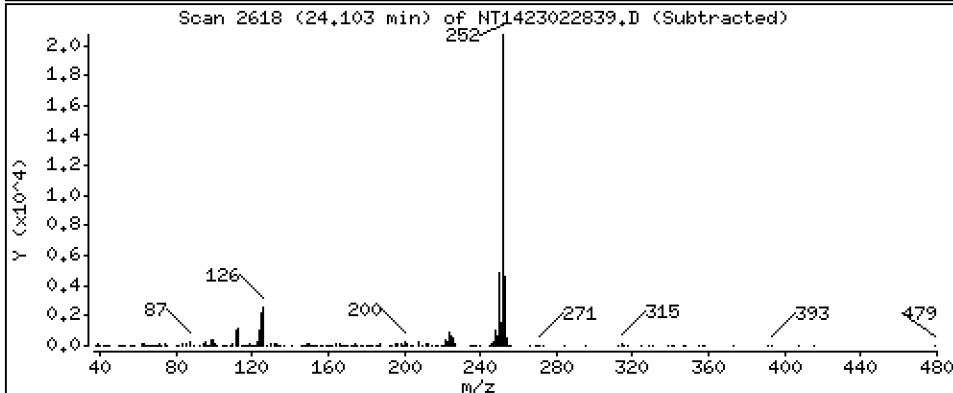
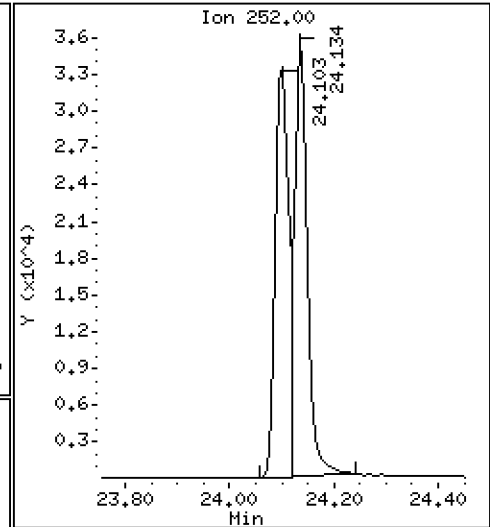
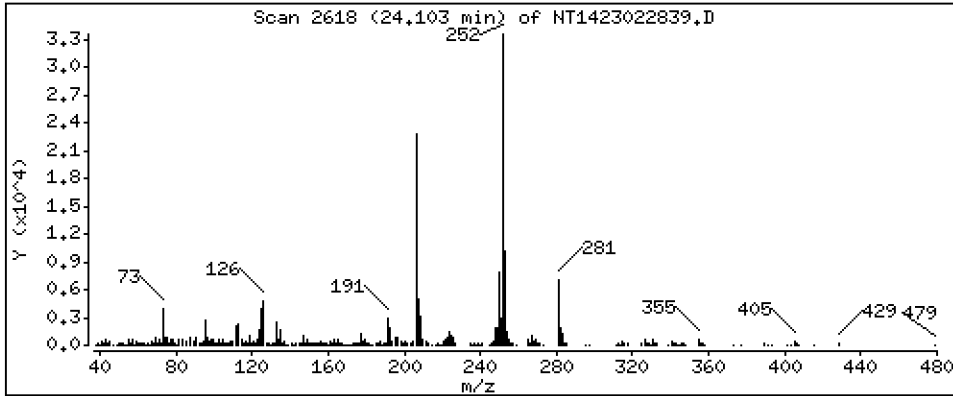
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 0,5748 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

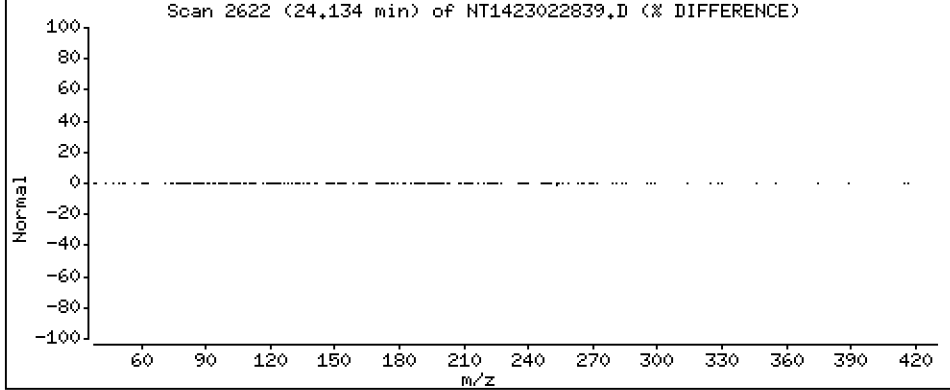
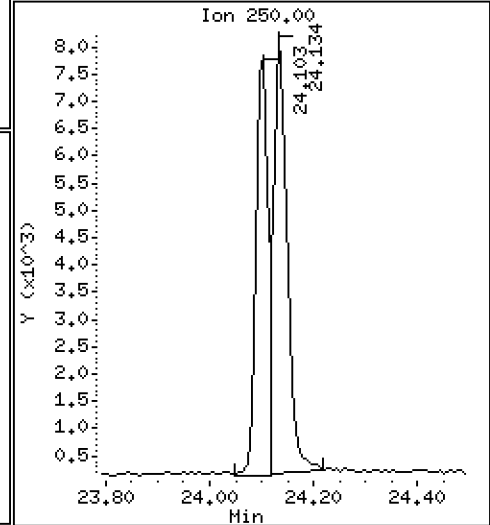
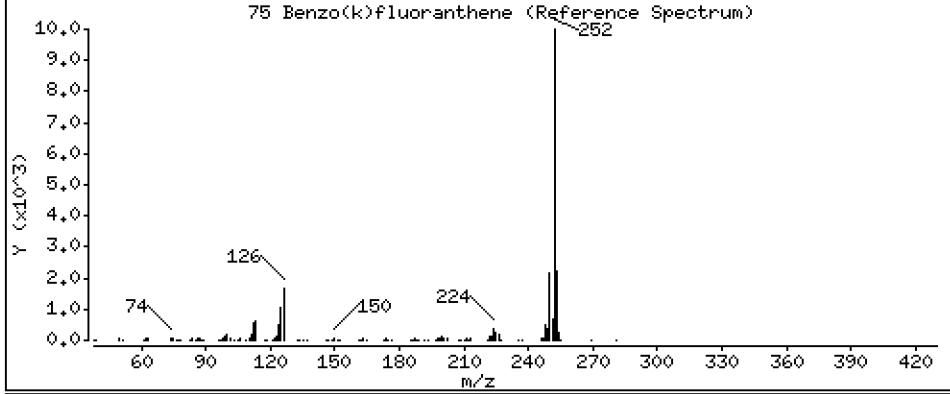
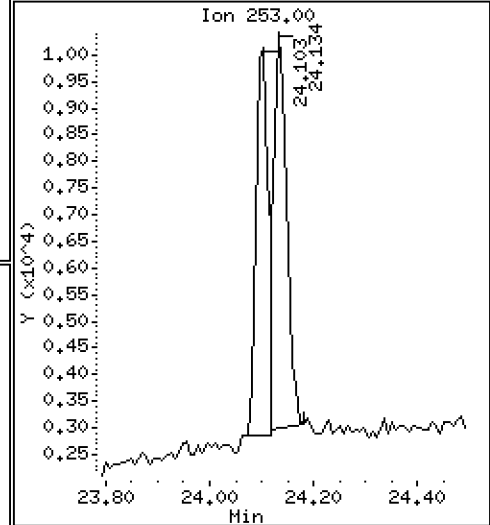
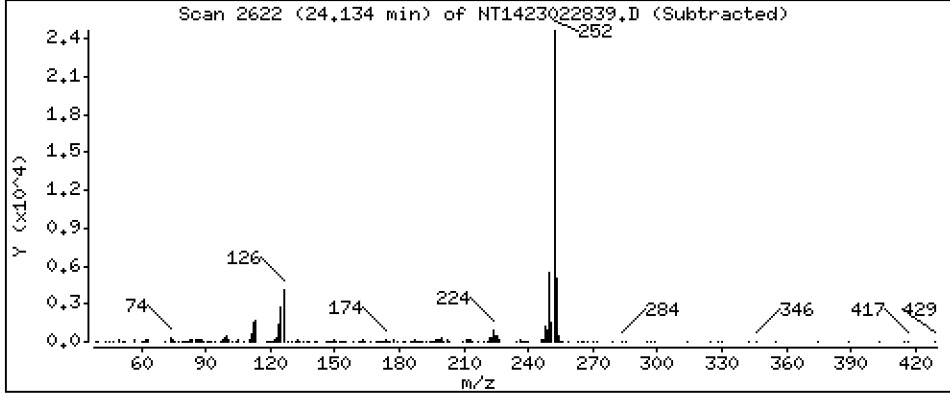
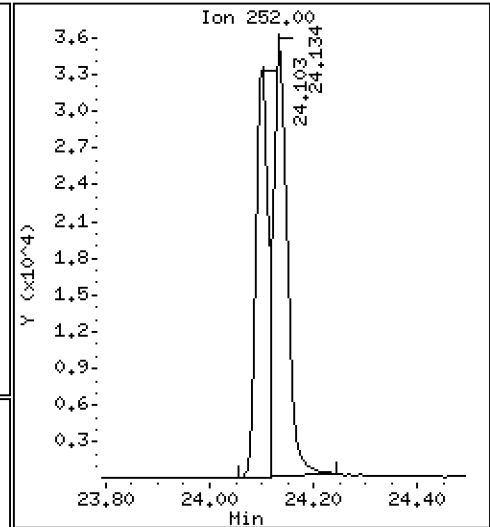
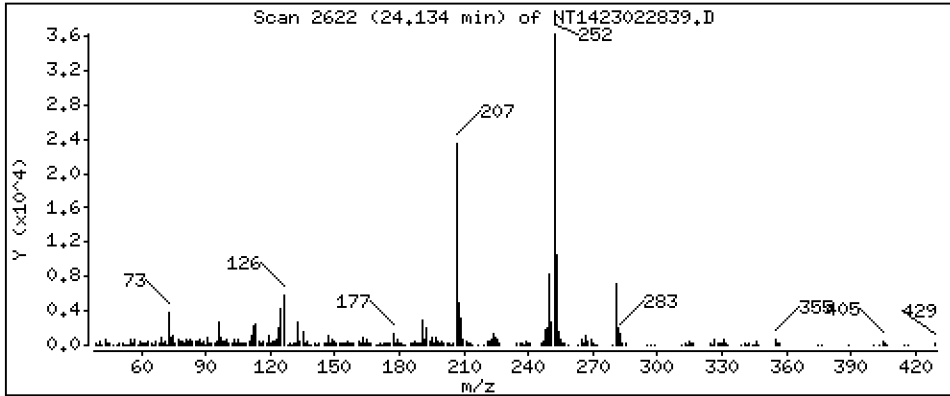
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 0,5863 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

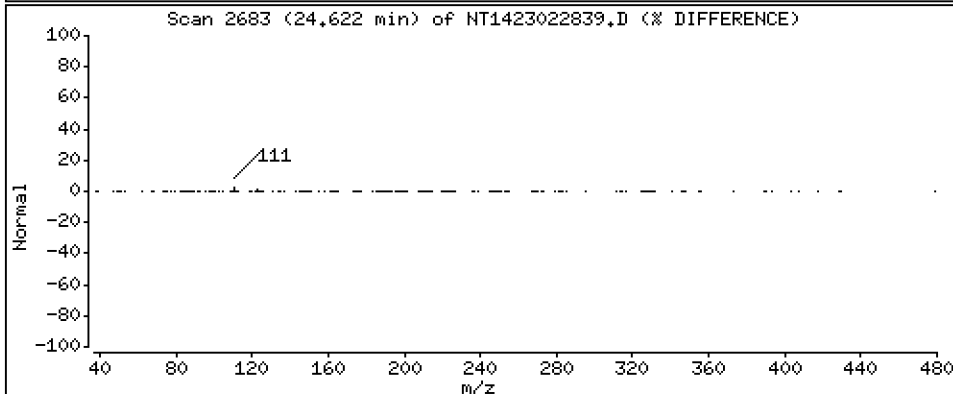
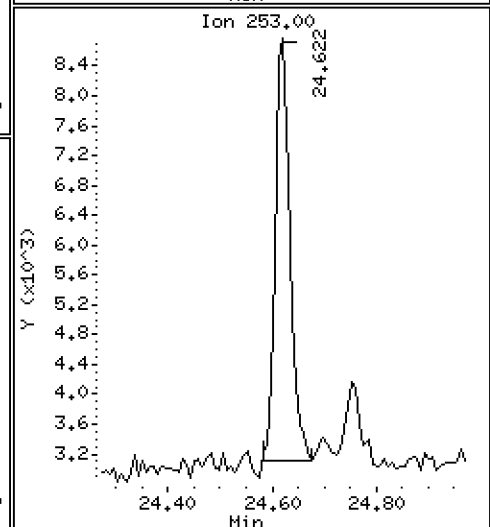
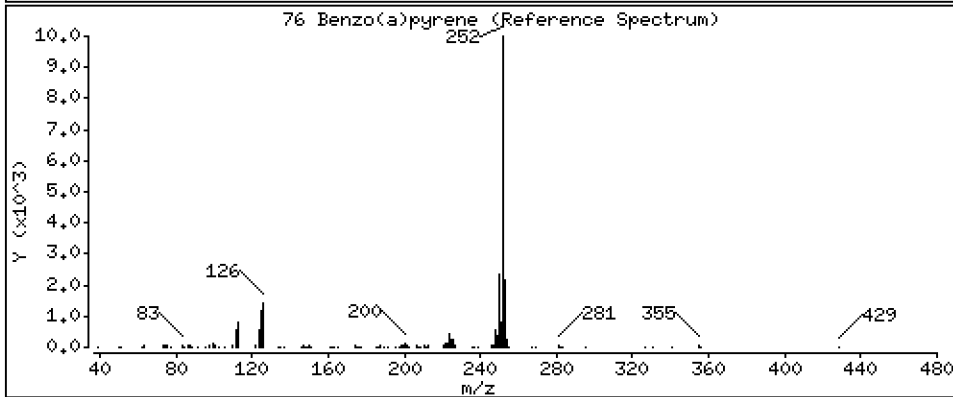
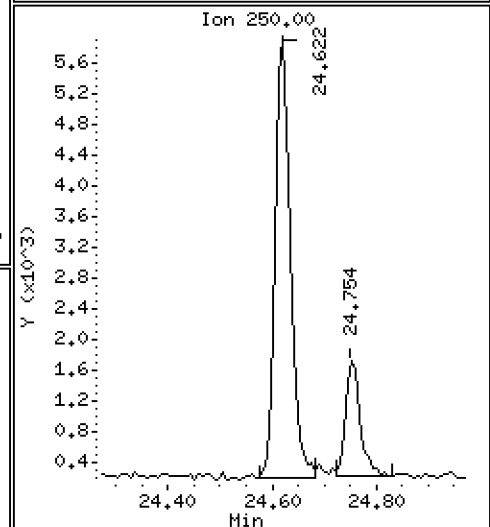
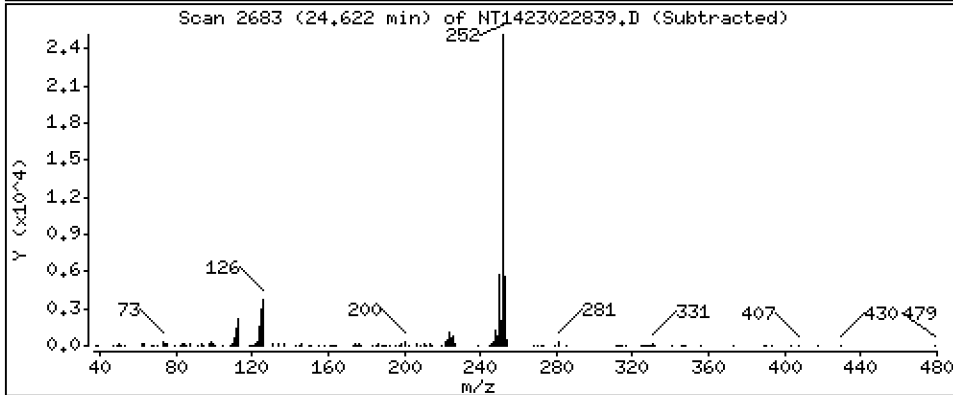
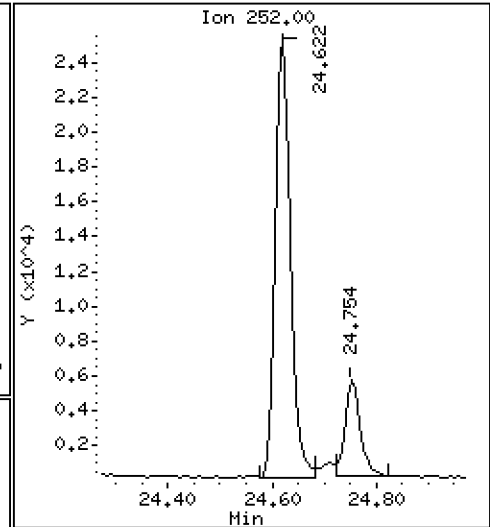
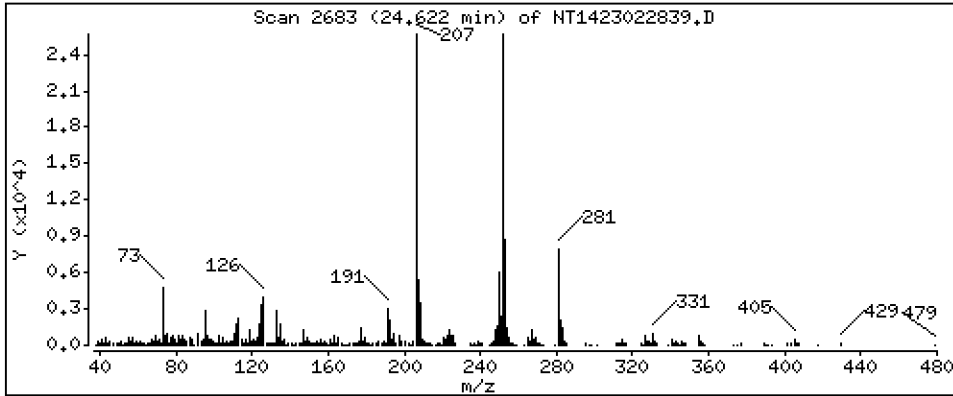
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 0,5437 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

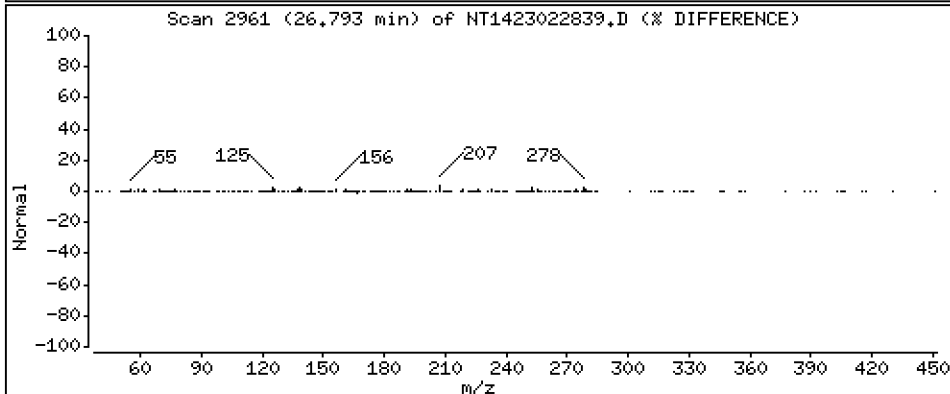
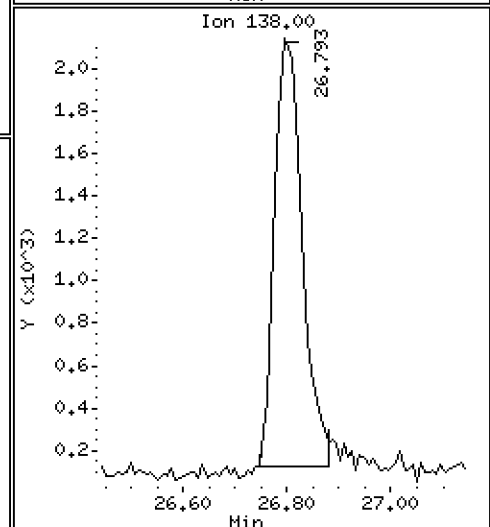
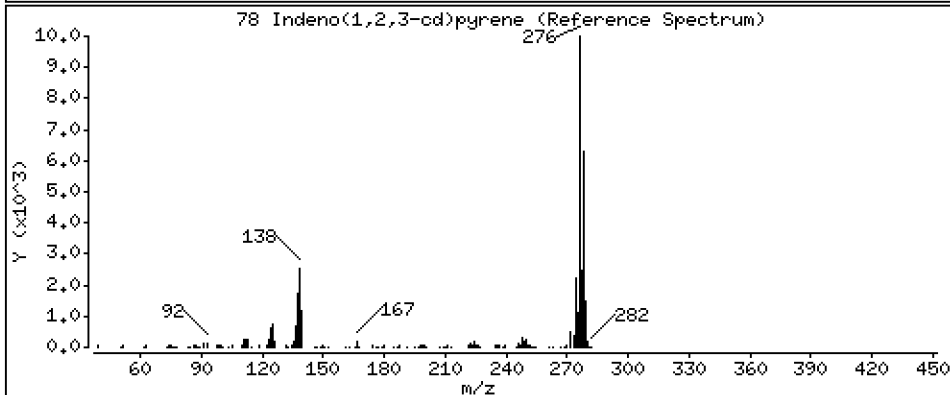
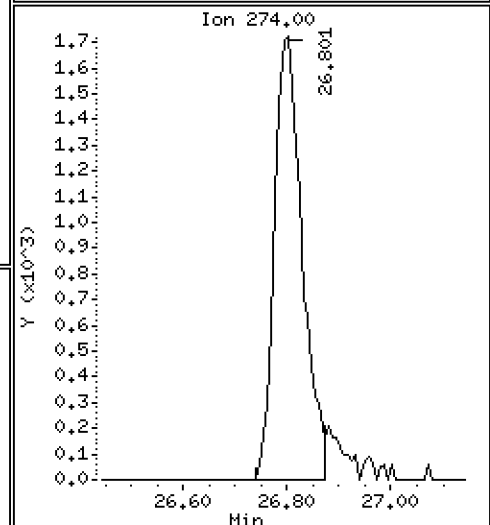
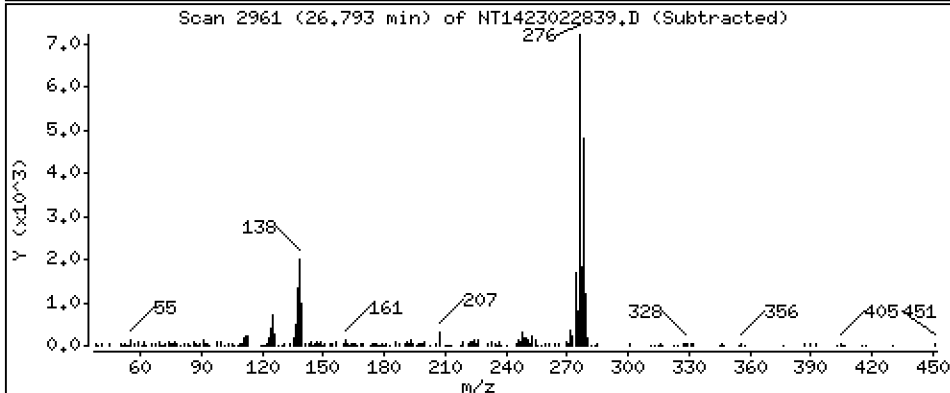
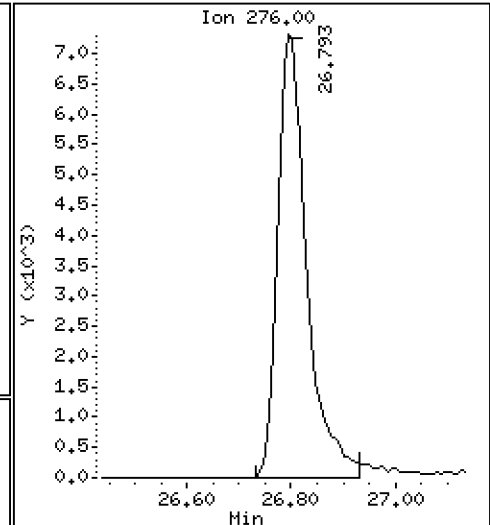
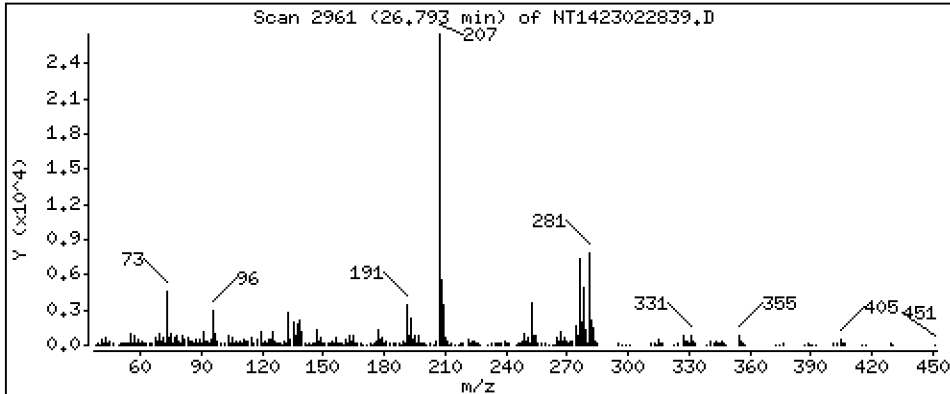
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 0,2520 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

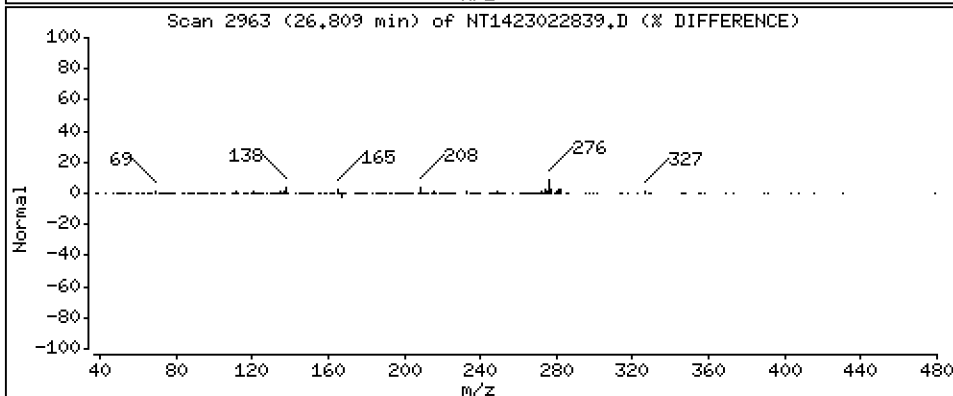
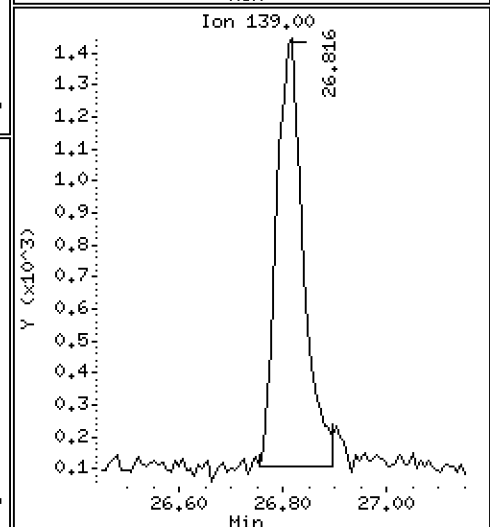
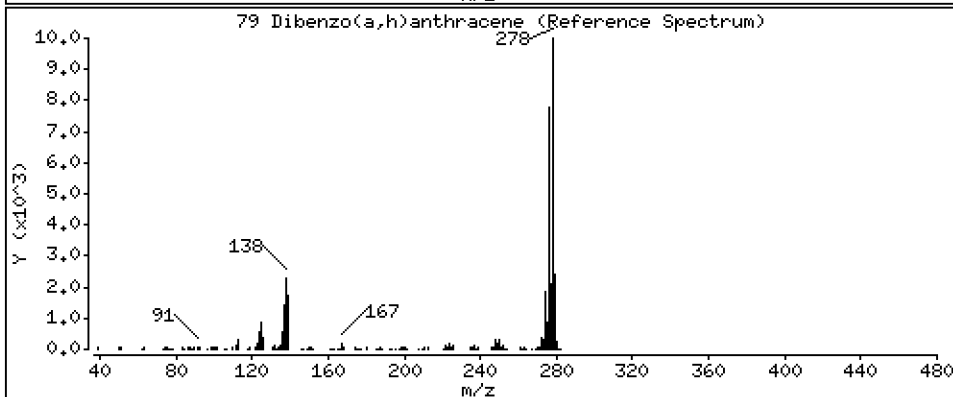
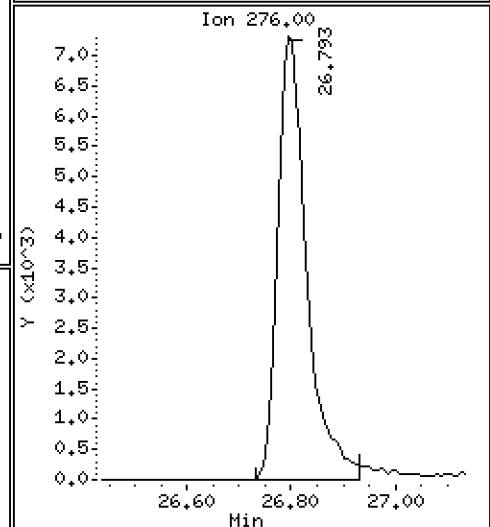
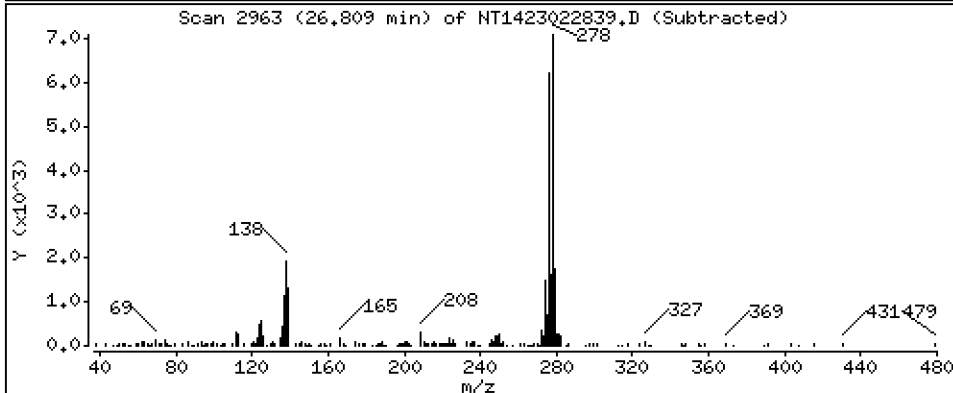
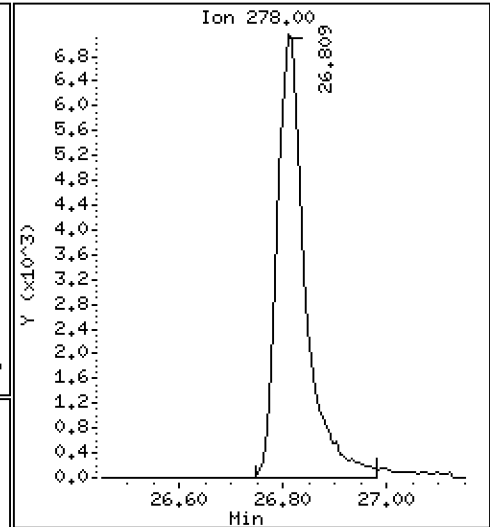
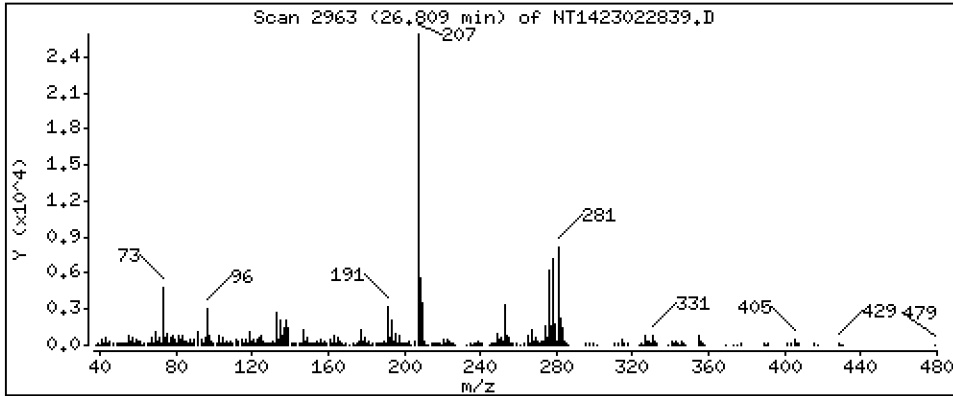
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 0,2813 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

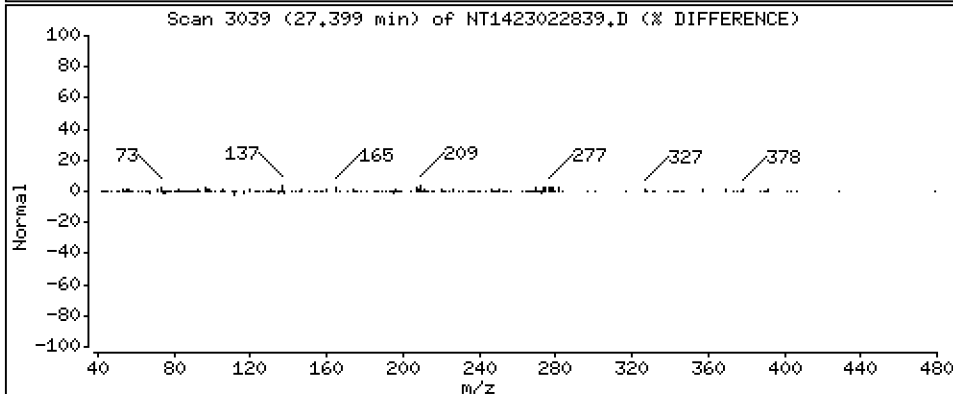
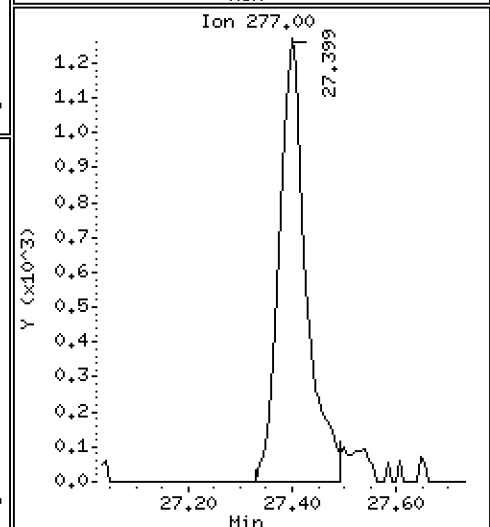
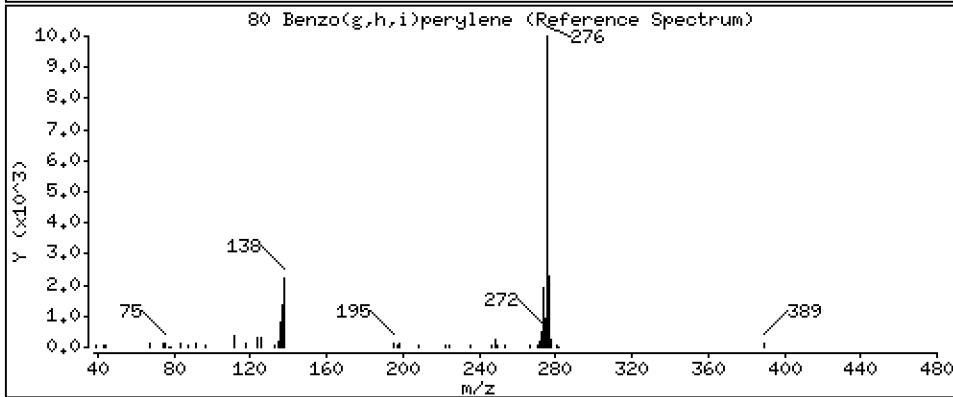
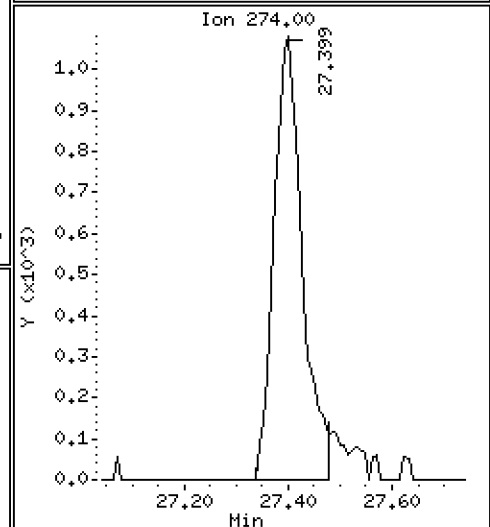
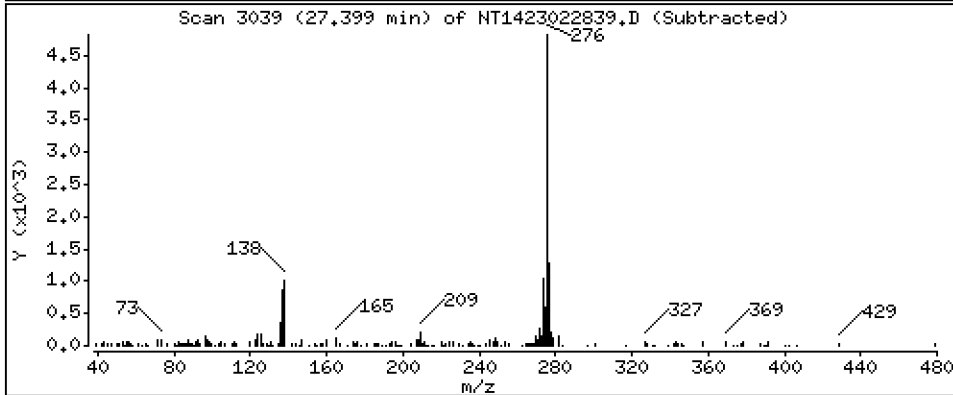
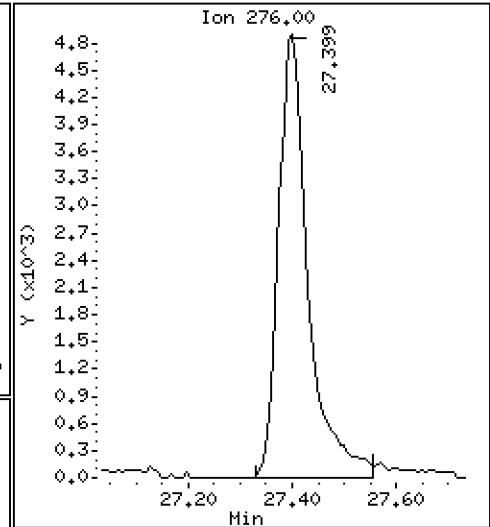
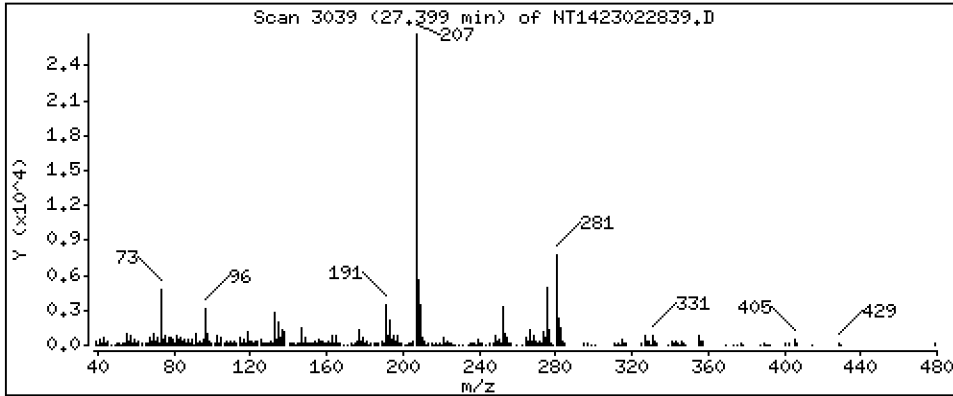
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 0,1986 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

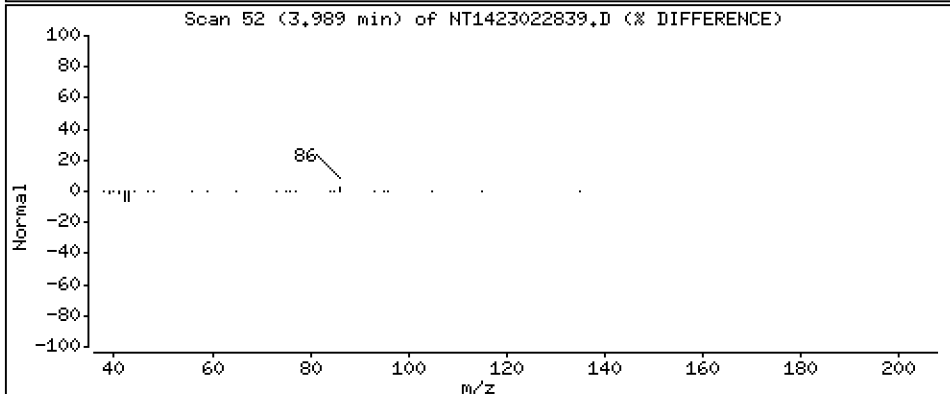
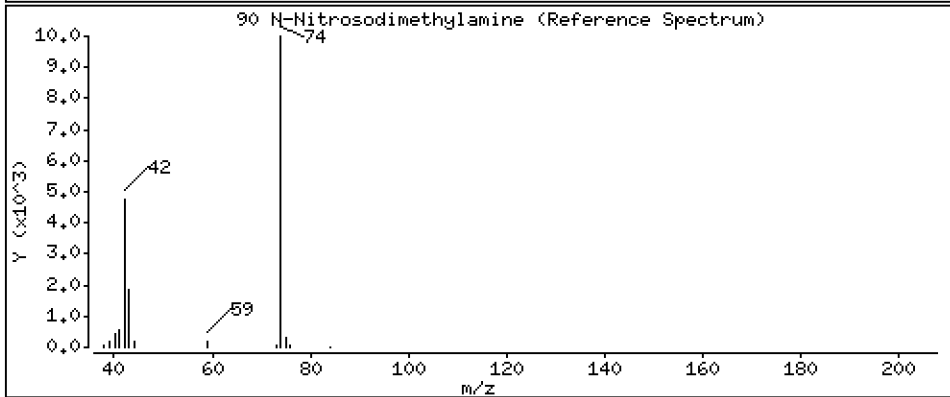
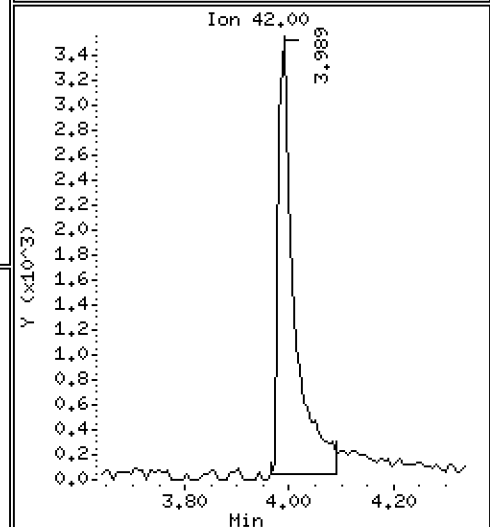
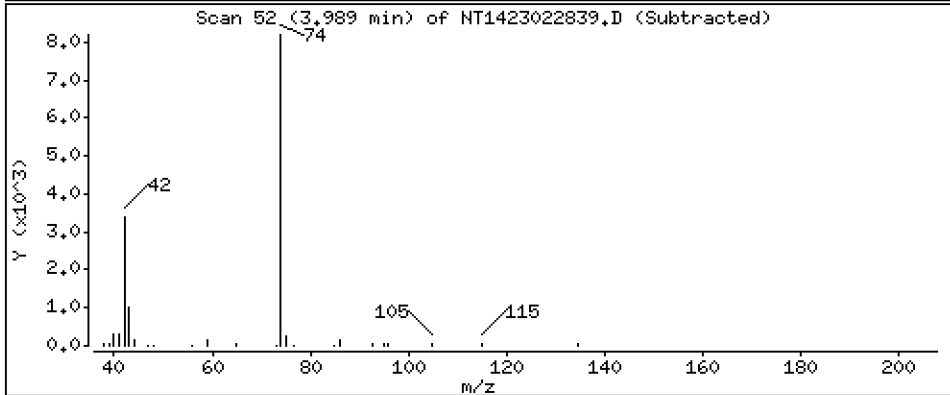
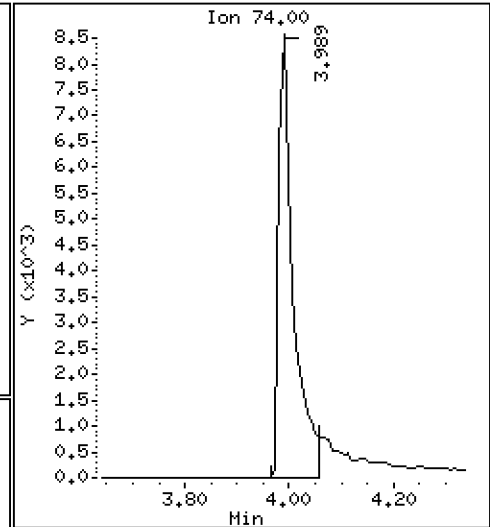
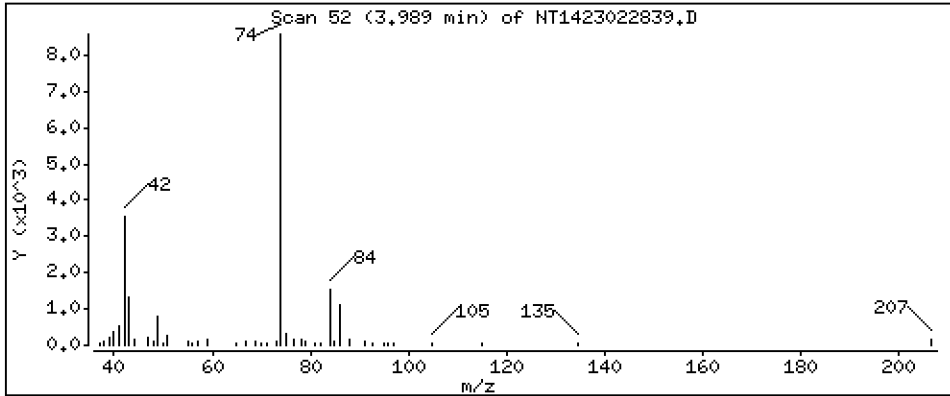
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

90 N-Nitrosodimethylamine

Concentration: 0,6900 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

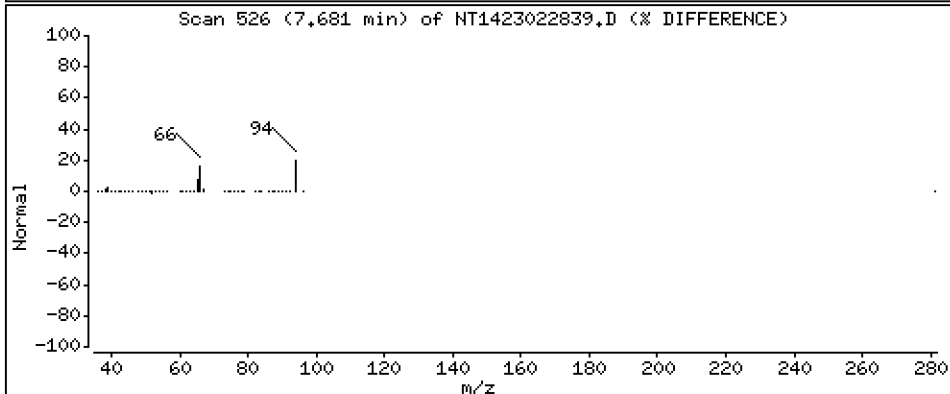
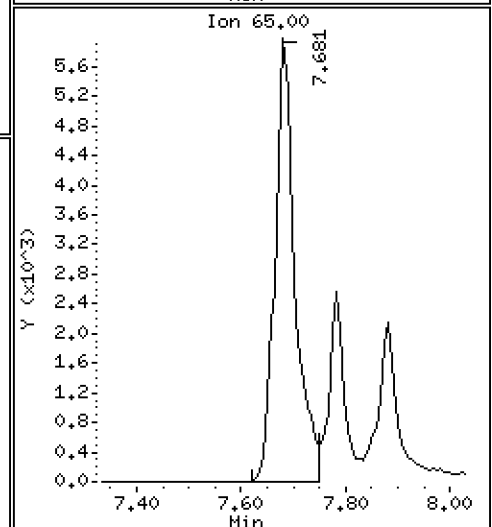
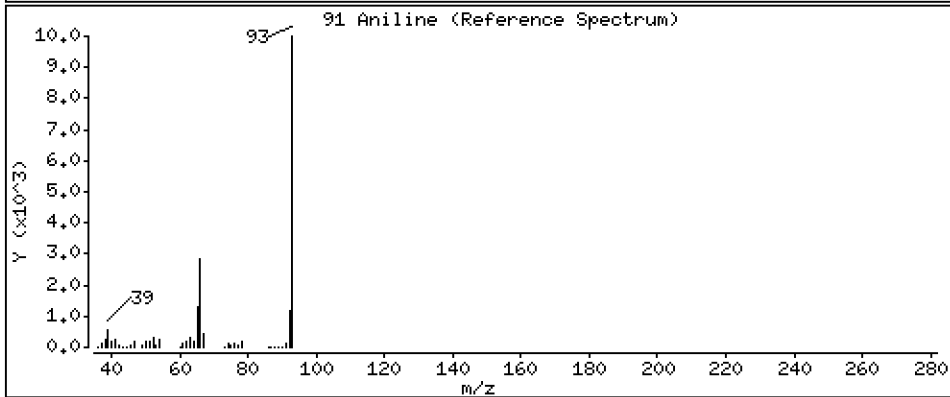
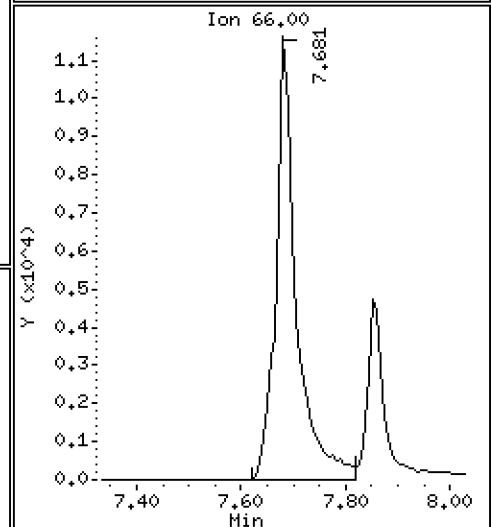
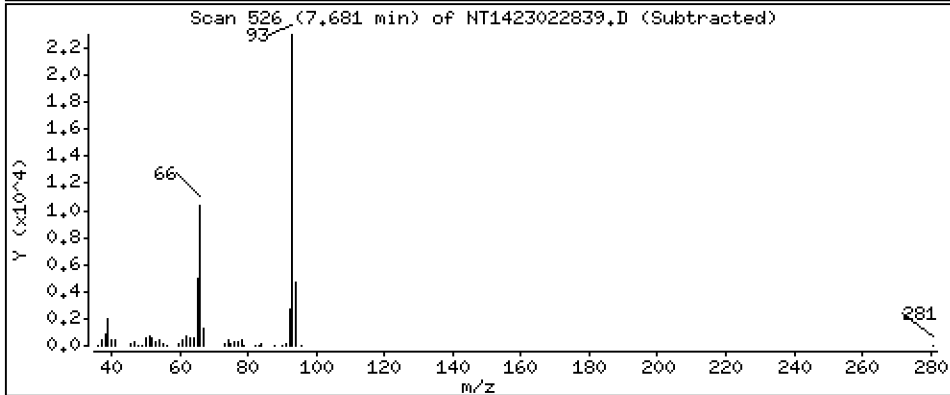
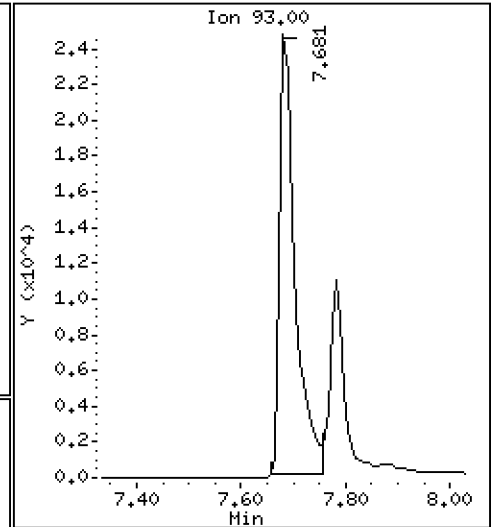
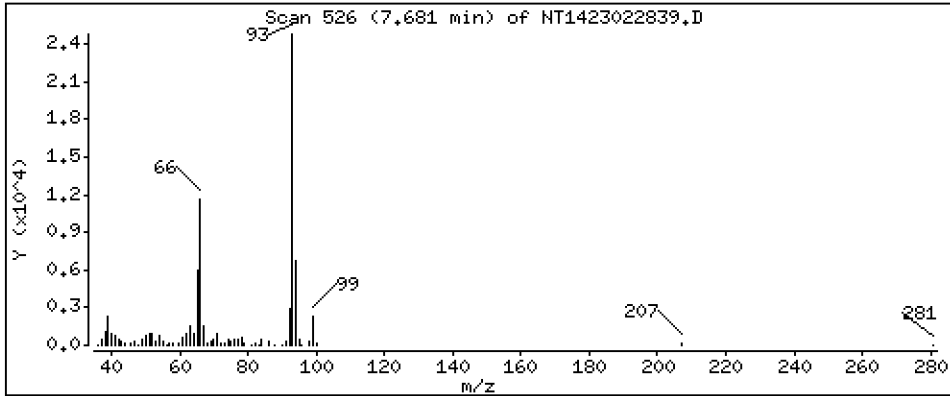
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

91 Aniline

Concentration: 0.9125 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

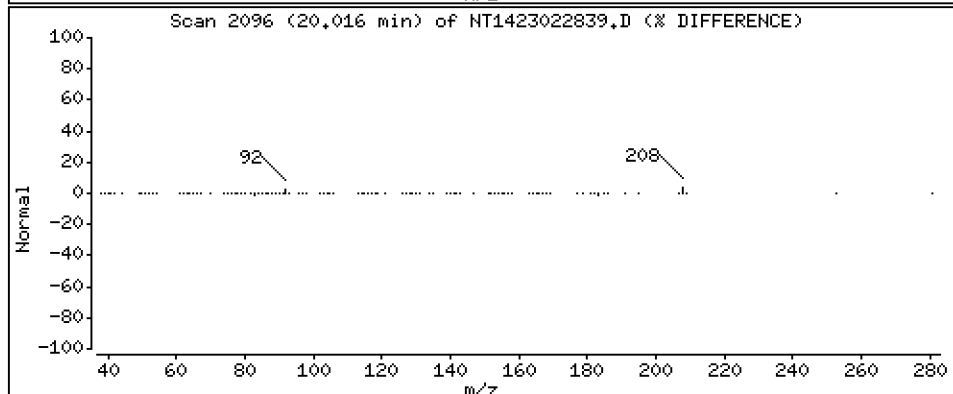
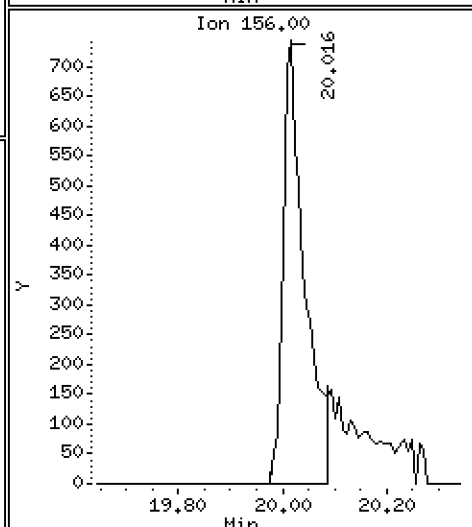
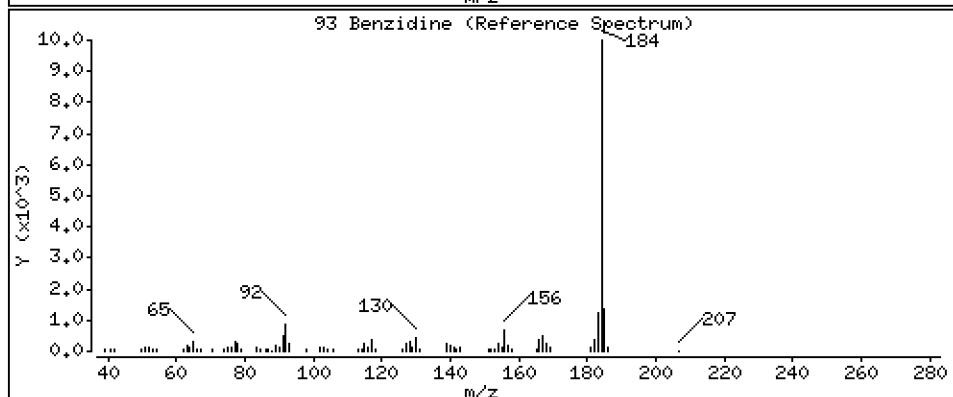
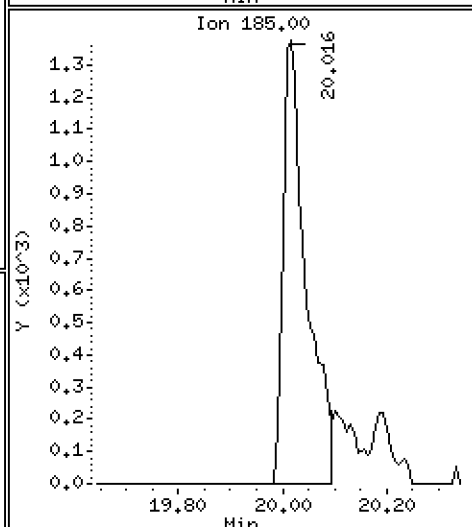
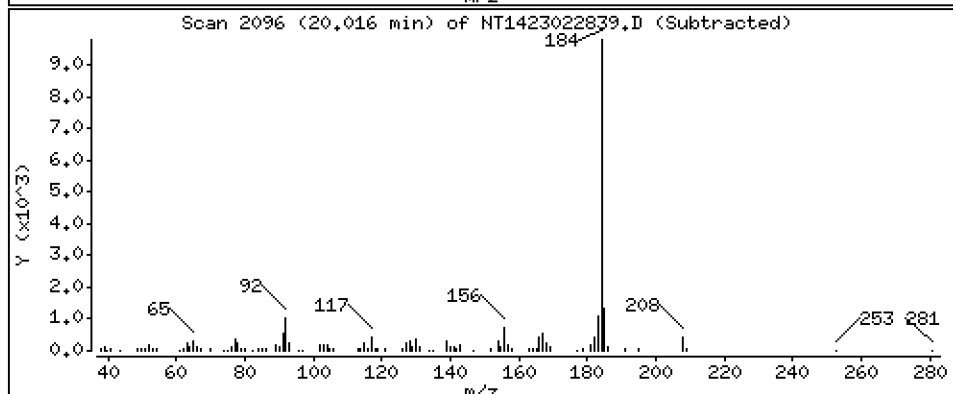
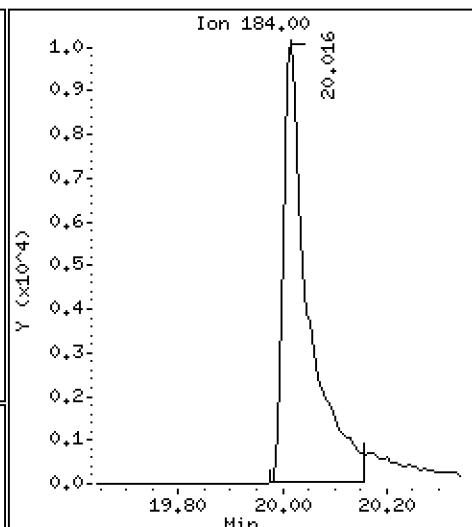
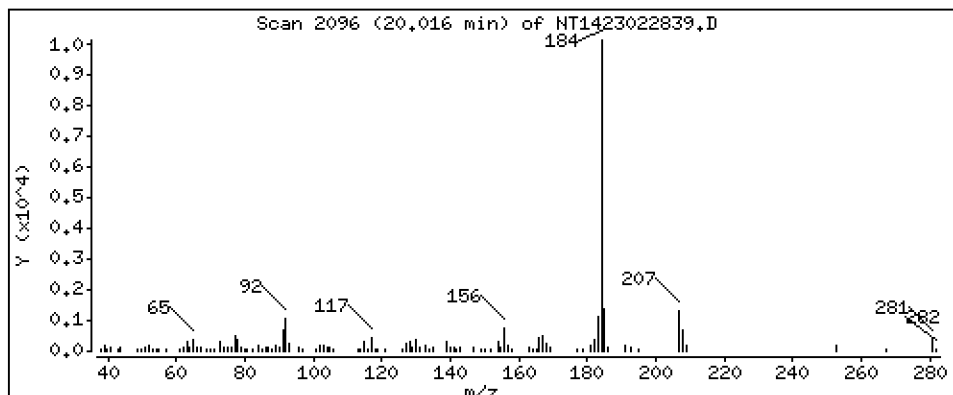
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

93 Benzidine

Concentration: 0,6124 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

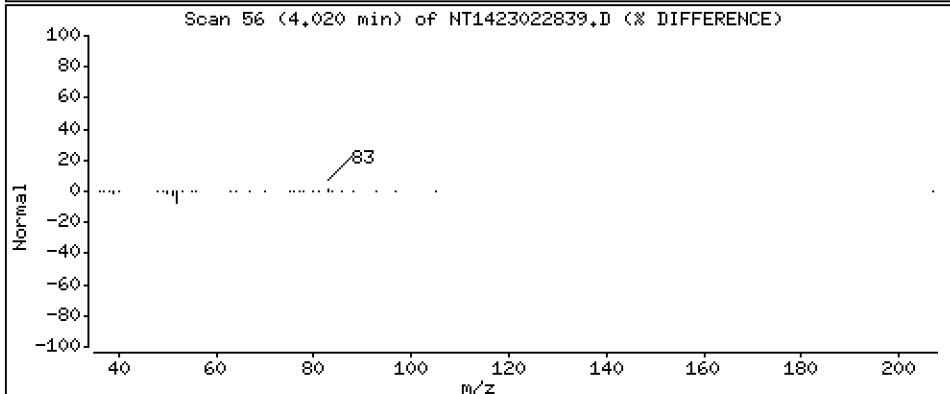
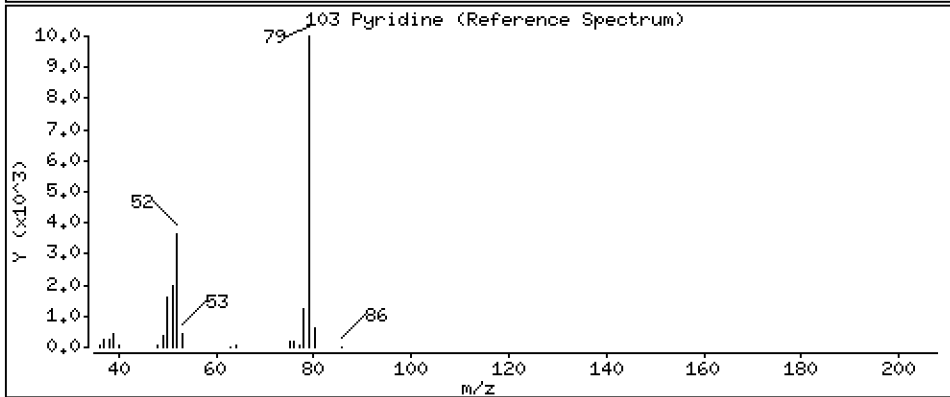
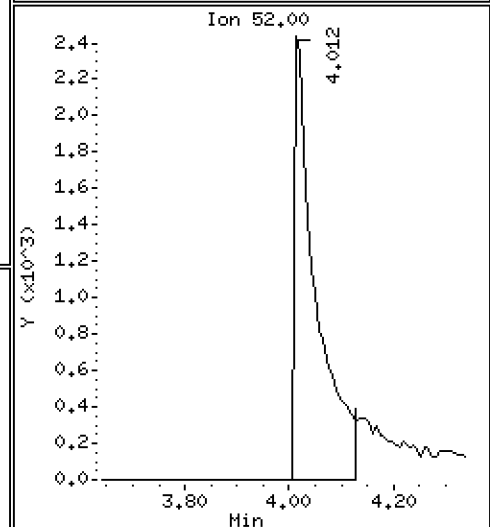
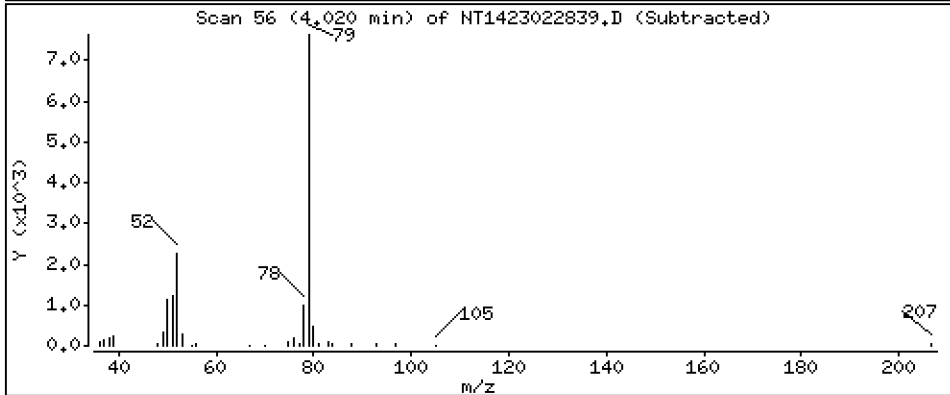
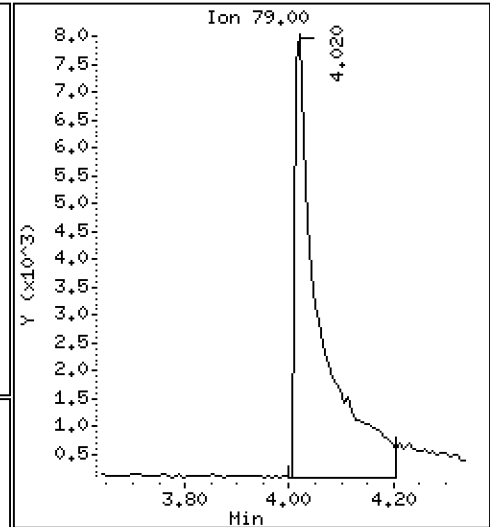
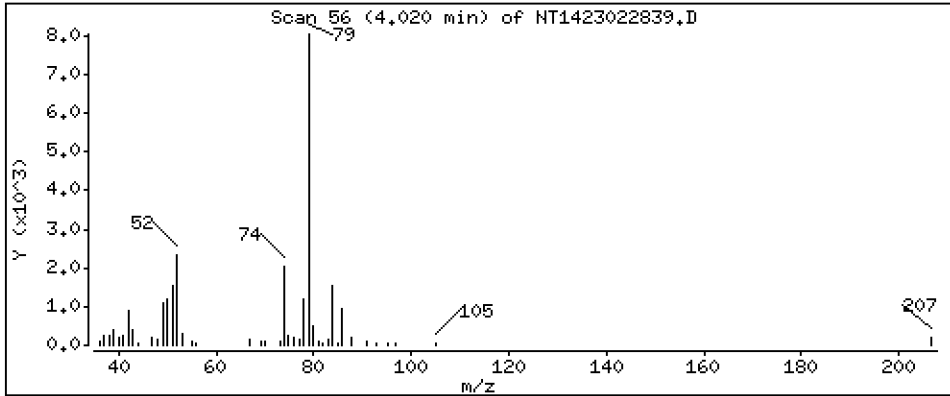
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

103 Pyridine

Concentration: 0,3914 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

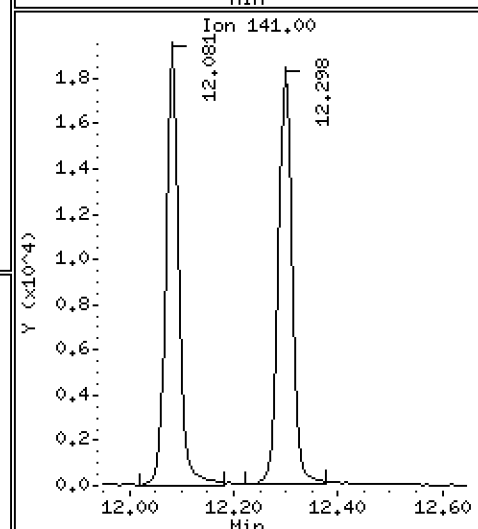
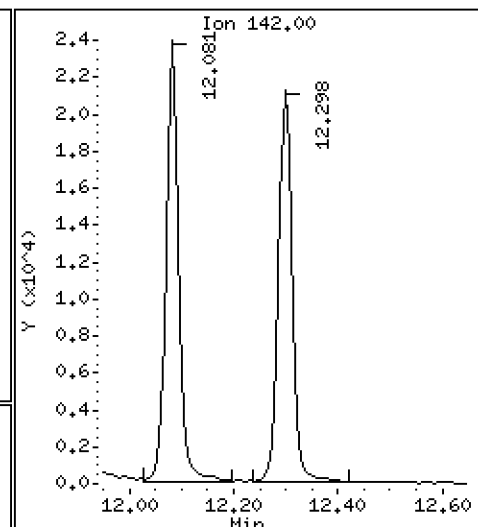
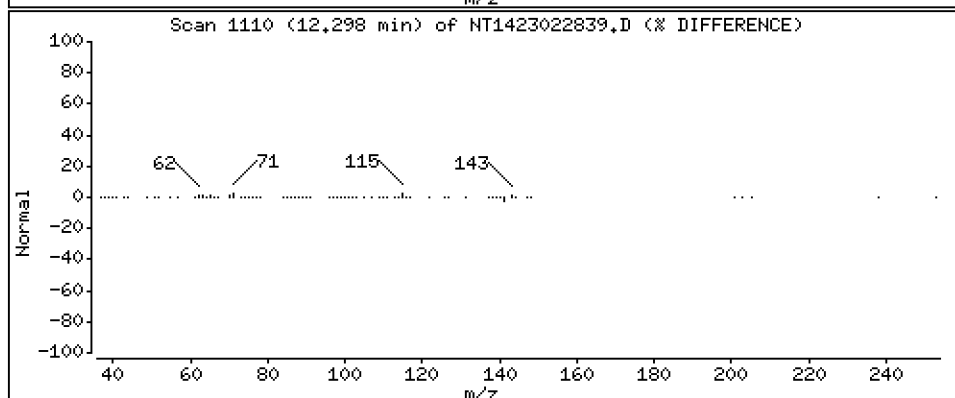
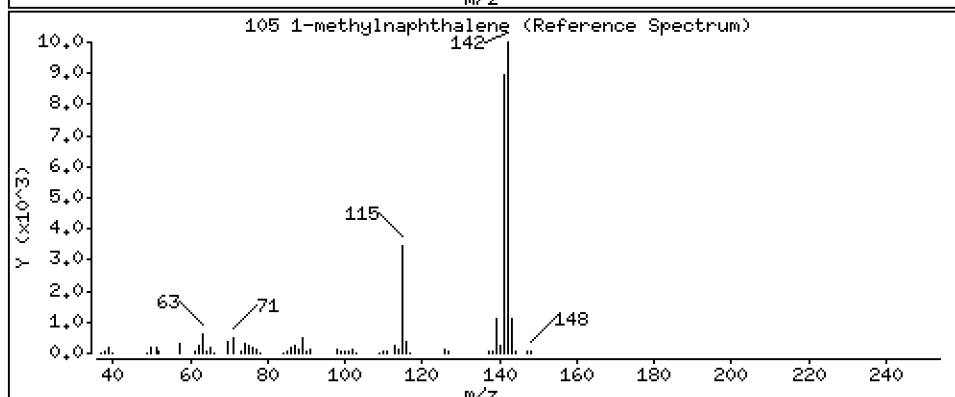
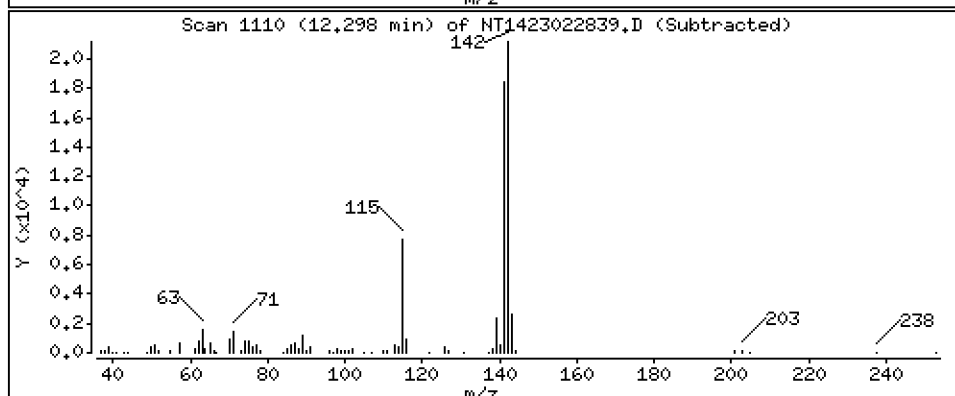
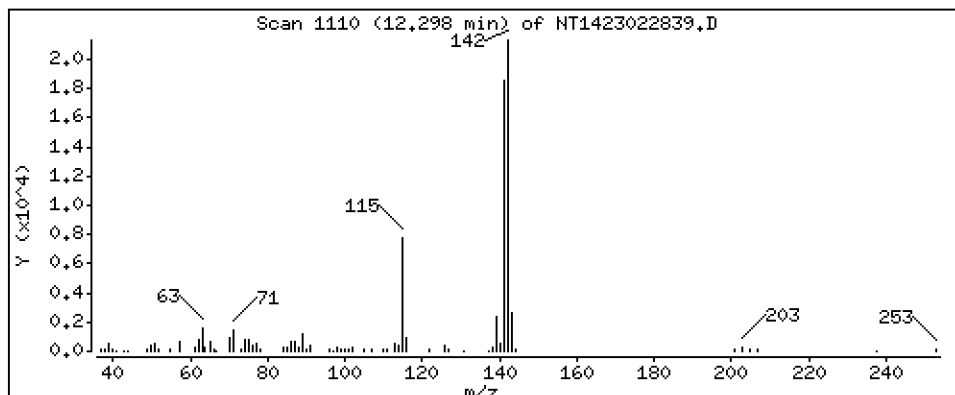
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 0,5086 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

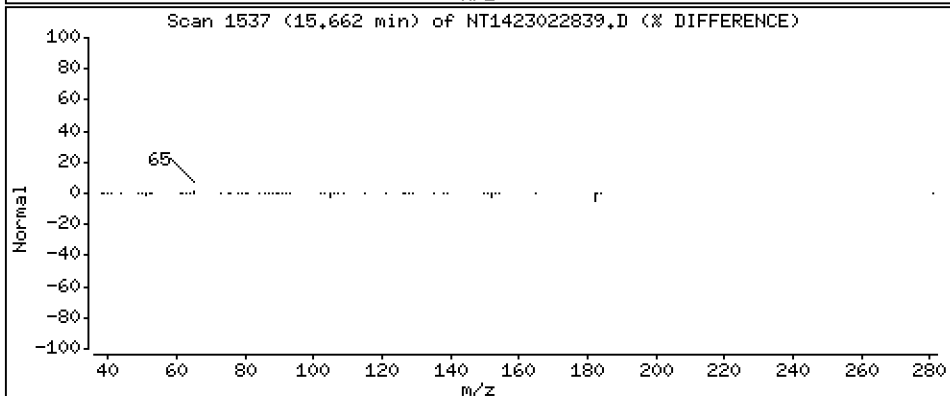
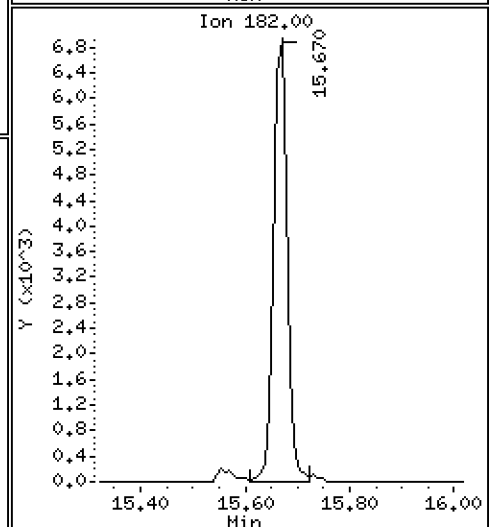
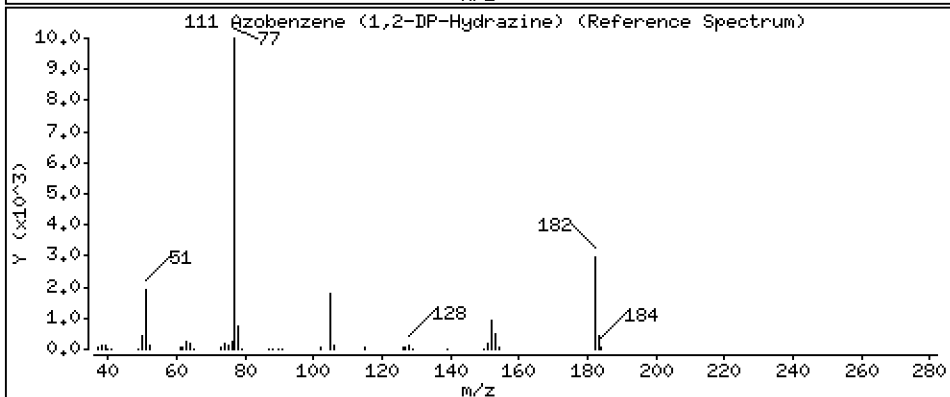
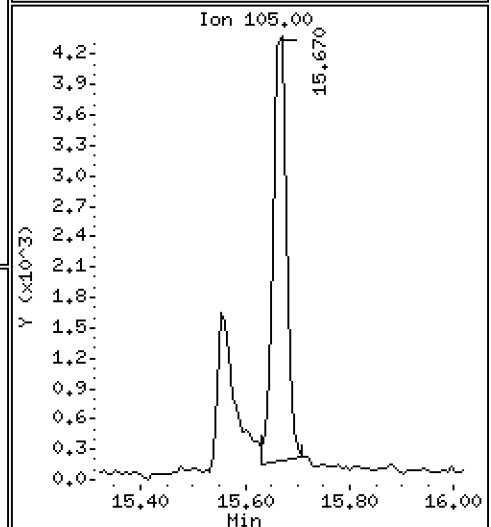
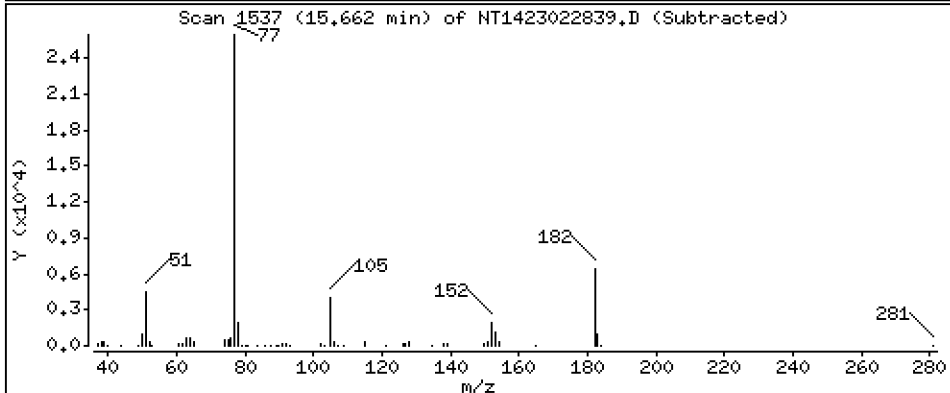
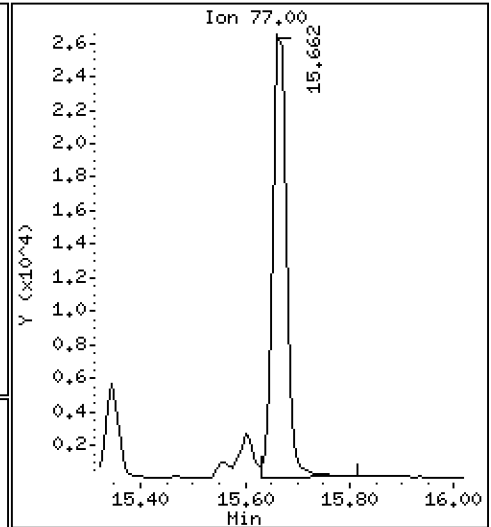
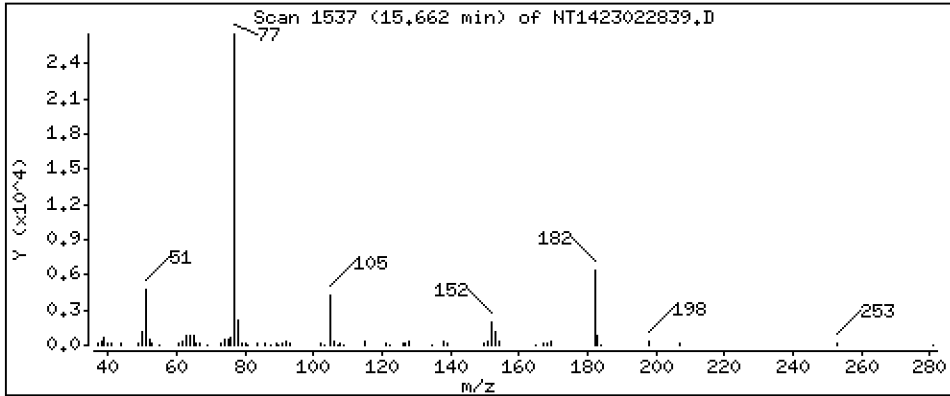
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 0,5890 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

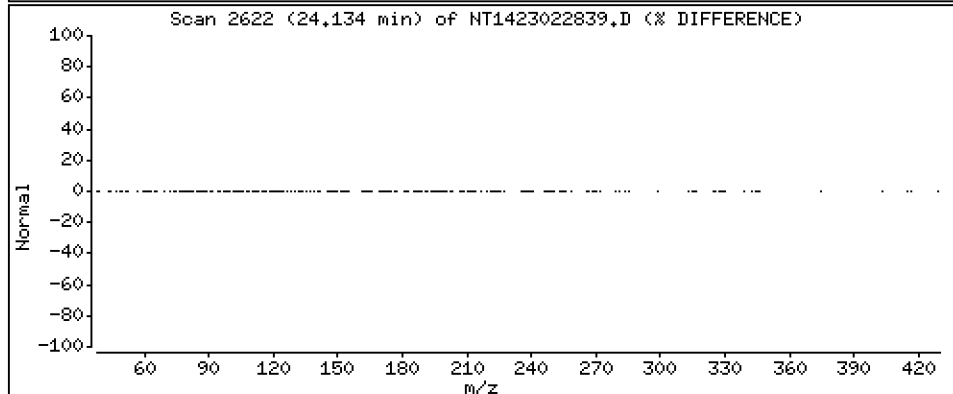
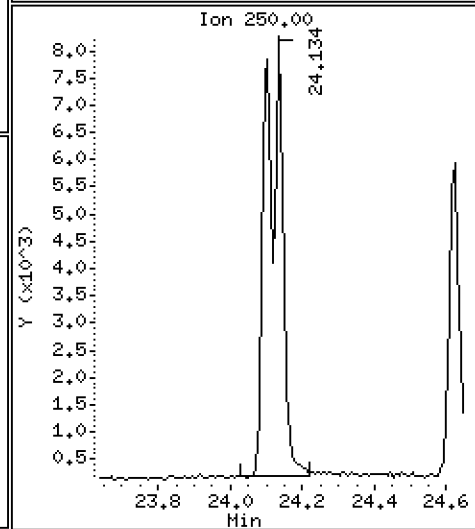
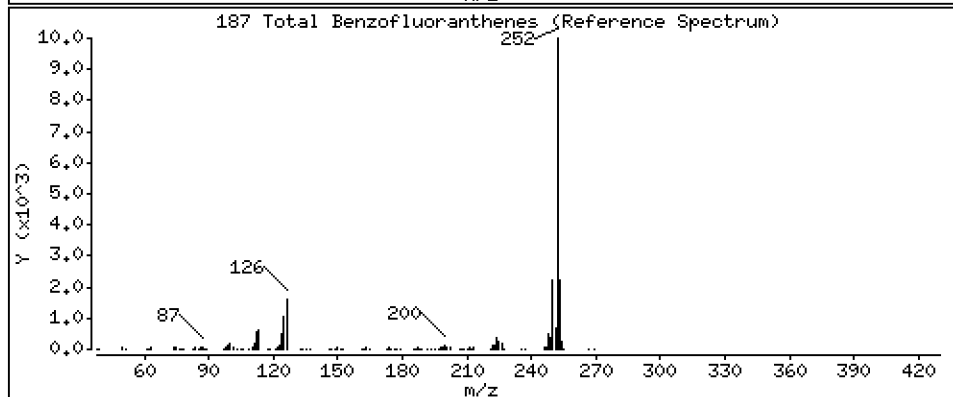
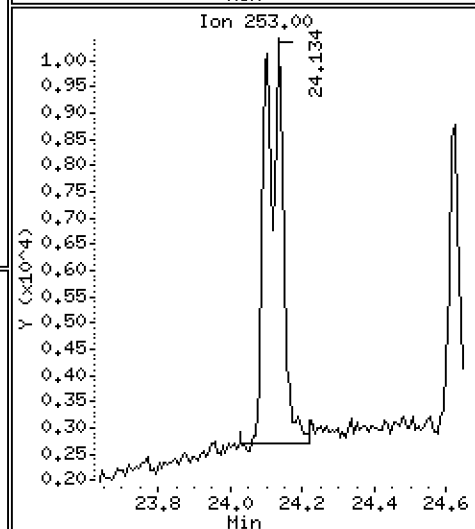
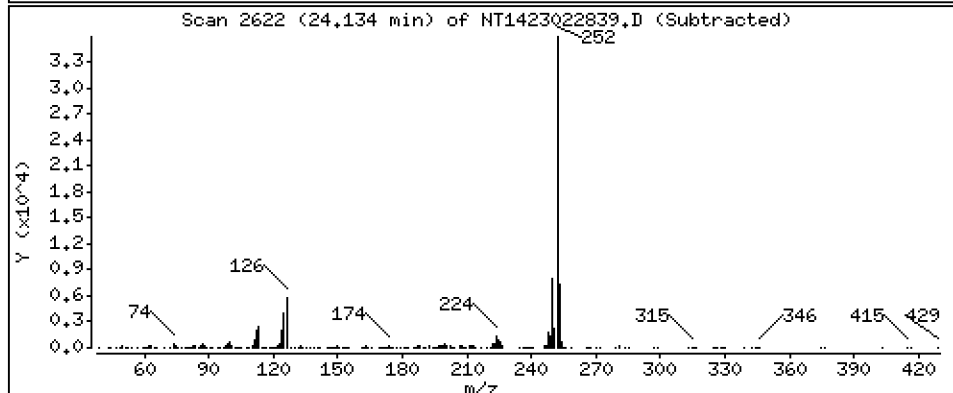
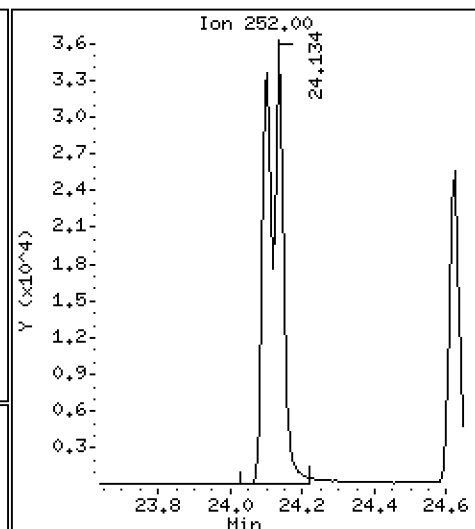
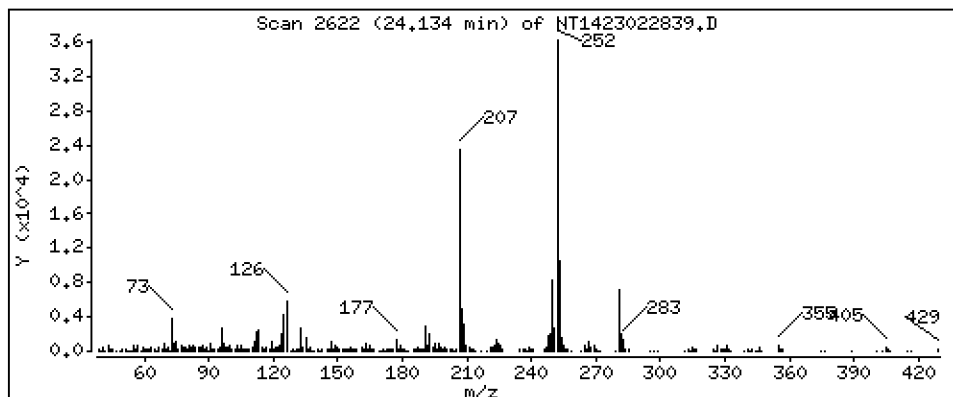
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 1,167 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

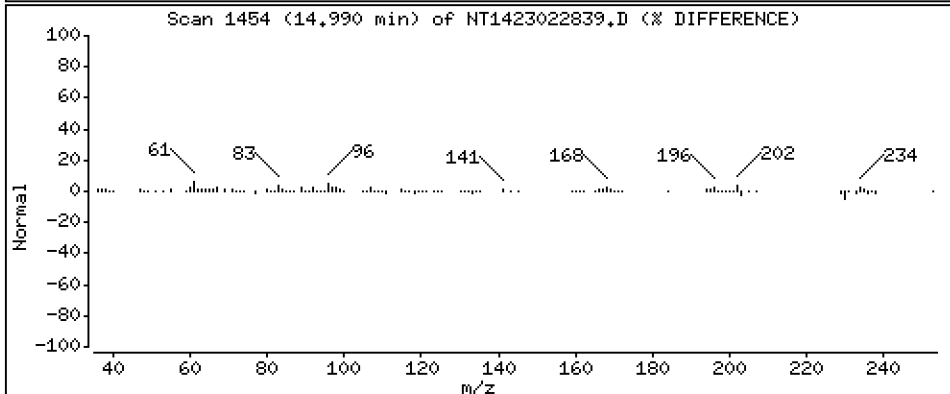
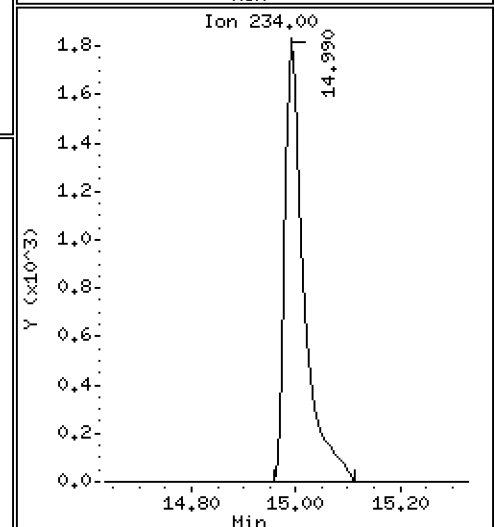
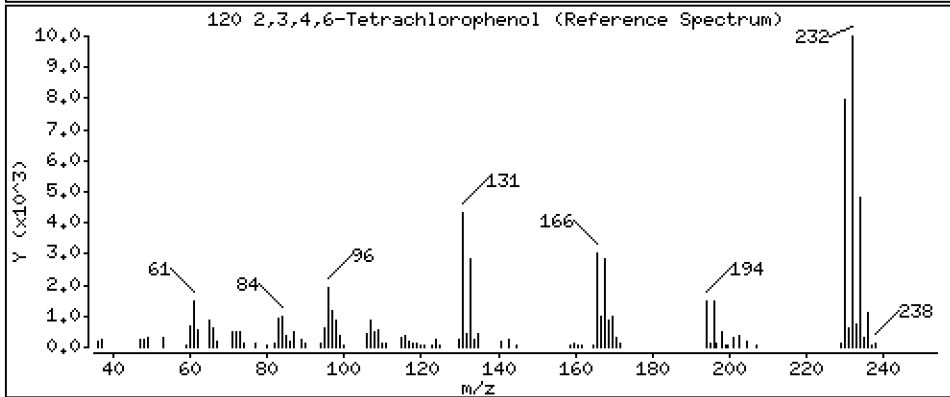
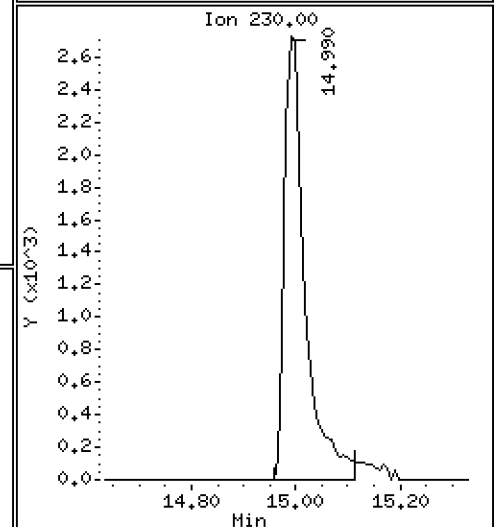
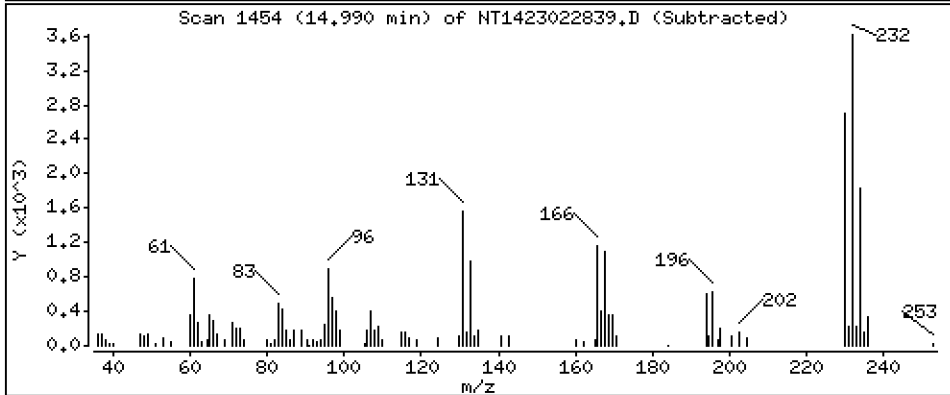
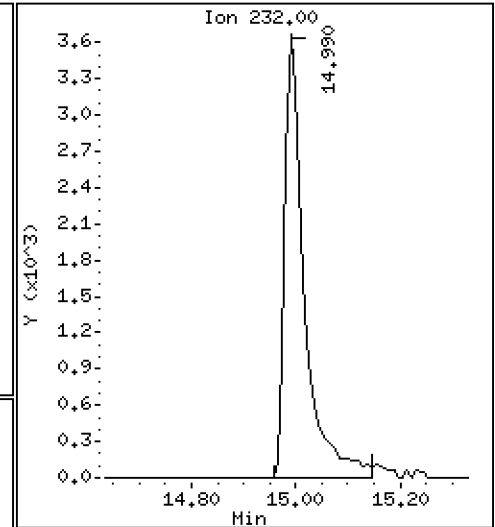
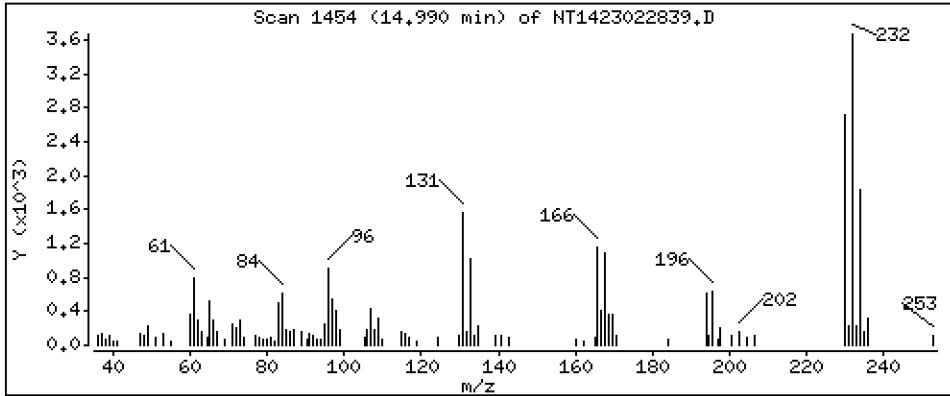
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

120 2,3,4,6-Tetrachlorophenol

Concentration: 0,3850 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230228.b\NT1423022839.D
 Lab Smp Id: SLB0374-LCV4
 Inj Date : 02-MAR-2023 00:28 MS Autotune Date: 17-MAY-2011 01:22
 Operator : JGR Inst ID: nt14.i
 Smp Info : SLB0374-LCV4
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt14.i\20230228.b\ABN.m
 Meth Date : 14-Mar-2023 08:52 van Quant Type: ISTD
 Cal Date : 28-FEB-2023 15:16 Cal File: NT1423022808.D
 Als bottle: 7
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: ICAL.sub
 Target Version: 4.14
 Processing Host: VANS-201906

| Compounds | QUANT | SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|---------------------------------|-------|-----|--------|--------|---------|----------|----------------|------------|
| | | | | | | | ON-COLUMN | FINAL |
| | MASS | | | | | | (ug/mL) | (ug/mL) |
| \$ 1 2-Fluorophenol | 112 | | 6.058 | 6.050 | (0.740) | 21041 | 0.68149 | 0.6815 |
| \$ 2 Phenol-d5 | 99 | | 7.642 | 7.642 | (0.933) | 31560 | 0.71996 | 0.7200 |
| 3 Phenol | 94 | | 7.665 | 7.665 | (0.936) | 25759 | 0.49250 | 0.4925 |
| \$ 5 2-Chlorophenol-d4 | 132 | | 7.858 | 7.850 | (0.959) | 28250 | 0.75791 | 0.7579 |
| 4 Bis(2-Chloroethyl)ether | 93 | | 7.781 | 7.781 | (0.950) | 18758 | 0.50903 | 0.5090 |
| 6 2-Chlorophenol | 128 | | 7.882 | 7.881 | (0.962) | 18201 | 0.47244 | 0.4724 |
| 7 1,3-Dichlorobenzene | 146 | | 8.129 | 8.129 | (0.992) | 22055 | 0.51947 | 0.5195 |
| * 8 1,4-Dichlorobenzene-d4 | 152 | | 8.191 | 8.199 | (1.000) | 113866 | 4.00000 | |
| 9 1,4-Dichlorobenzene | 146 | | 8.222 | 8.230 | (1.004) | 21018 | 0.50089 | 0.5009 |
| \$ 10 1,2-Dichlorobenzene-d4 | 152 | | 8.548 | 8.548 | (1.044) | 13993 | 0.49866 | 0.4987 |
| 12 1,2-Dichlorobenzene | 146 | | 8.572 | 8.571 | (1.046) | 21326 | 0.53002 | 0.5300 |
| 11 Benzyl alcohol | 108 | | 8.579 | 8.509 | (1.047) | 7595 | 0.33294 | 0.3329 (M) |
| 14 2,2'-oxybis(1-Chloropropane) | 121 | | 8.789 | 8.789 | (1.073) | 5668 | 0.52235 | 0.5223 |
| 13 2-Methylphenol | 108 | | 8.750 | 8.750 | (1.068) | 19550 | 0.59167 | 0.5917 |
| 17 Hexachloroethane | 117 | | 9.146 | 9.154 | (1.117) | 6238 | 0.39586 | 0.3959 |
| 16 N-Nitroso-di-n-propylamine | 70 | | 9.045 | 9.053 | (1.104) | 14070 | 0.55927 | 0.5593 |
| 15 4-Methylphenol | 108 | | 9.030 | 9.022 | (1.102) | 15567 | 0.40474 | 0.4047 |
| \$ 18 Nitrobenzene-d5 | 82 | | 9.293 | 9.285 | (0.873) | 21653 | 0.55112 | 0.5511 |
| 19 Nitrobenzene | 77 | | 9.325 | 9.324 | (0.876) | 20215 | 0.53543 | 0.5354 |
| 20 Isophorone | 82 | | 9.767 | 9.774 | (0.917) | 26127 | 0.44314 | 0.4431 |
| 21 2-Nitrophenol | 139 | | 9.953 | 9.945 | (0.935) | 7521 | 0.38482 | 0.3848 |
| 22 2,4-Dimethylphenol | 107 | | 10.046 | 10.046 | (0.943) | 35270 | 1.02472 | 1.025 |
| 23 Bis(2-Chloroethoxy)methane | 93 | | 10.224 | 10.224 | (0.960) | 20112 | 0.52986 | 0.5299 |
| 24 Benzoic acid | 105 | | 10.657 | 10.364 | (1.001) | 12402 | 0.90925 | 0.9092 (M) |
| 25 2,4-Dichlorophenol | 162 | | 10.418 | 10.410 | (0.978) | 30431 | 0.87404 | 0.8740 |
| 26 1,2,4-Trichlorobenzene | 180 | | 10.572 | 10.572 | (0.993) | 19323 | 0.49675 | 0.4967 |
| * 27 Naphthalene-d8 | 136 | | 10.650 | 10.649 | (1.000) | 401641 | 4.00000 | |
| 28 Naphthalene | 128 | | 10.688 | 10.688 | (1.004) | 56325 | 0.52575 | 0.5257 |
| 29 4-Chloroaniline | 127 | | 10.858 | 10.850 | (1.020) | 41091 | 0.89674 | 0.8967 |
| 30 Hexachlorobutadiene | 225 | | 11.067 | 11.066 | (1.039) | 10951 | 0.46136 | 0.4614 |
| 31 4-Chloro-3-methylphenol | 107 | | 11.856 | 11.848 | (1.113) | 30858 | 0.99602 | 0.9960 |
| 32 2-Methylnaphthalene | 142 | | 12.080 | 12.080 | (1.134) | 40795 | 0.51420 | 0.5142 |
| 33 Hexachlorocyclopentadiene | 237 | | 12.545 | 12.545 | (0.881) | 278 | 0.01142 | 0.01142 |

| Compounds | QUANT SIG | | | | | CONCENTRATIONS | |
|-----------------------------------|-----------|--------|--------|---------|----------|----------------------|------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | ON-COLUMN (ug/mL) | FINAL (ug/mL) |
| 34 2,4,6-Trichlorophenol | 196 | 12.723 | 12.723 | (0.894) | 20172 | 0.88977 | 0.8898 |
| 35 2,4,5-Trichlorophenol | 196 | 12.808 | 12.800 | (0.900) | 20179 | 0.82322 | 0.8232 |
| § 36 2-Fluorobiphenyl | 172 | 12.878 | 12.877 | (0.905) | 46913 | 0.51935 | 0.5193 |
| 37 2-Chloronaphthalene | 162 | 13.063 | 13.063 | (0.918) | 37076 | 0.51201 | 0.5120 |
| 38 2-Nitroaniline | 65 | 13.357 | 13.349 | (0.939) | 20216 | 1.07044 | 1.070 |
| 39 Dimethylphthalate | 163 | 13.799 | 13.798 | (0.970) | 40379 | 0.55314 | 0.5531 |
| 40 Acenaphthylene | 152 | 13.922 | 13.922 | (0.978) | 59655 | 0.56144 | 0.5614 |
| 41 2,6-Dinitrotoluene | 165 | 13.922 | 13.930 | (0.978) | 17169 | 1.00365 | 1.004 |
| * 42 Acenaphthene-d10 | 164 | 14.232 | 14.239 | (1.000) | 232085 | 4.00000 | |
| 43 3-Nitroaniline | 138 | 14.216 | 14.208 | (0.999) | 13375 | 0.76285 | 0.7629 |
| 44 Acenaphthene | 153 | 14.301 | 14.301 | (1.005) | 35358 | 0.51975 | 0.5197 |
| 45 2,4-Dinitrophenol | 184 | 14.487 | 14.417 | (1.018) | 3589 | 0.33180 | 0.3318 (M) |
| 46 Dibenzofuran | 168 | 14.626 | 14.634 | (1.028) | 54403 | 0.50259 | 0.5026 |
| 47 4-Nitrophenol | 109 | 14.665 | 14.587 | (1.030) | 6712 | 0.77392 | 0.7739 (M) |
| 48 2,4-Dinitrotoluene | 165 | 14.719 | 14.726 | (1.034) | 21618 | 0.87783 | 0.8778 |
| 50 Diethylphthalate | 149 | 15.245 | 15.252 | (1.071) | 37592 | 0.55068 | 0.5507 |
| 49 Fluorene | 166 | 15.330 | 15.337 | (1.077) | 47493 | 0.52074 | 0.5207 |
| 51 4-Chlorophenyl-phenylether | 204 | 15.345 | 15.345 | (1.078) | 23996 | 0.49449 | 0.4945 |
| 52 4-Nitroaniline | 138 | 15.484 | 15.469 | (1.088) | 12439 | 0.71571 | 0.7157 |
| 53 4,6-Dinitro-2-methylphenol | 198 | 15.561 | 15.553 | (0.903) | 10658 | 0.76010 | 0.7601 |
| 54 N-Nitrosodiphenylamine | 169 | 15.600 | 15.607 | (0.905) | 29910 | 0.56432 | 0.5643 |
| § 55 2,4,6-Tribromophenol | 330 | 15.870 | 15.870 | (1.115) | 6770 | 0.54242 | 0.5424 |
| 56 4-Bromophenyl-phenylether | 248 | 16.340 | 16.340 | (0.948) | 11816 | 0.50709 | 0.5071 |
| 57 Hexachlorobenzene | 284 | 16.626 | 16.634 | (0.965) | 13457 | 0.52527 | 0.5253 |
| 58 Pentachlorophenol | 266 | 17.029 | 17.005 | (0.988) | 6063 | 0.50236 | 0.5024 (M) |
| * 59 Phenanthrene-d10 | 188 | 17.238 | 17.245 | (1.000) | 421769 | 4.00000 | |
| 60 Phenanthrene | 178 | 17.284 | 17.291 | (1.003) | 57808 | 0.51522 | 0.5152 |
| 61 Anthracene | 178 | 17.385 | 17.384 | (1.009) | 56384 | 0.53157 | 0.5316 |
| 62 Carbazole | 167 | 17.740 | 17.732 | (1.029) | 45658 | 0.49113 | 0.4911 |
| 63 Di-n-butylphthalate | 149 | 18.591 | 18.591 | (1.079) | 59448 | 0.49567 | 0.4957 |
| 64 Fluoranthene | 202 | 19.713 | 19.713 | (0.882) | 60055 | 0.46780 | 0.4678 |
| 65 Pyrene | 202 | 20.139 | 20.139 | (0.901) | 64188 | 0.47423 | 0.4742 |
| § 66 Terphenyl-d14 | 244 | 20.472 | 20.471 | (0.916) | 48524 | 0.46562 | 0.4656 |
| 67 Butylbenzylphthalate | 149 | 21.439 | 21.439 | (0.959) | 24089 | 0.50341 | 0.5034 |
| 68 Benzo(a)anthracene | 228 | 22.338 | 22.337 | (0.999) | 61963 | 0.54666 | 0.5467 |
| * 69 Chrysene-d12 | 240 | 22.361 | 22.368 | (1.000) | 338375 | 4.00000 | |
| 70 3,3'-Dichlorobenzidine | 252 | 22.322 | 22.330 | (0.998) | 61380 | 1.89623 | 1.896 |
| 71 Chrysene | 228 | 22.407 | 22.415 | (1.002) | 57233 | 0.52532 | 0.5253 |
| 72 bis(2-Ethylhexyl)phthalate | 149 | 22.493 | 22.492 | (0.958) | 33483 | 0.45826 | 0.4583 |
| * 134 Di-n-octylphthalate-d4 | 153 | 23.468 | 23.476 | (1.000) | 478625 | 4.00000 | |
| 73 Di-n-octylphthalate | 149 | 23.476 | 23.483 | (1.000) | 63483 | 0.50375 | 0.5038 |
| 74 Benzo(b)fluoranthene | 252 | 24.103 | 24.103 | (0.975) | 59947 | 0.57480 | 0.5748 |
| 75 Benzo(k)fluoranthene | 252 | 24.134 | 24.141 | (0.977) | 65965 | 0.58629 | 0.5863 |
| 76 Benzo(a)pyrene | 252 | 24.622 | 24.621 | (0.996) | 48646 | 0.54368 | 0.5437 |
| * 77 Perylene-d12 | 264 | 24.715 | 24.714 | (1.000) | 315661 | 4.00000 | |
| 78 Indeno(1,2,3-cd)pyrene | 276 | 26.792 | 26.784 | (1.084) | 28384 | 0.25201 | 0.2520 |
| 79 Dibenzo(a,h)anthracene | 278 | 26.808 | 26.800 | (1.085) | 26906 | 0.28126 | 0.2813 |
| 80 Benzo(g,h,i)perylene | 276 | 27.398 | 27.383 | (1.109) | 19508 | 0.19859 | 0.1986 |
| 90 N-Nitrosodimethylamine | 74 | 3.988 | 3.988 | (0.487) | 16106 | 0.69000 | 0.6900 |
| 91 Aniline | 93 | 7.681 | 7.681 | (0.938) | 49138 | 0.91246 | 0.9125 |
| 93 Benzidine | 184 | 20.015 | 19.992 | (0.895) | 33592 | 0.61245 | 0.6124 |
| 103 Pyridine | 79 | 4.019 | 3.988 | (0.491) | 27003 | 0.39141 | 0.3914 |
| 105 1-methylnaphthalene | 142 | 12.297 | 12.297 | (1.155) | 37145 | 0.50856 | 0.5086 |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77 | 15.662 | 15.669 | (1.100) | 46156 | 0.58895 | 0.5890 |

| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|-------------------------------|-----------|--------|--------|---------|----------|----------------------|------------------|
| | | | | | | ON-COLUMN (ug/mL) | FINAL (ug/mL) |
| 187 Total Benzofluoranthenes | 252 | 24.134 | 24.141 | (0.977) | 119075 | 1.16718 | 1.167 |
| 120 2,3,4,6-Tetrachlorophenol | 232 | 14.989 | 14.981 | (1.053) | 10064 | 0.38501 | 0.3850 |

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 01-MAR-2023
 Lab File ID: NT1423022839.D Calibration Time: 22:40
 Lab Smp Id: SLB0374-LCV4
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: JGR
 Method File: \\target\share\chem3\nt14.i\20230228.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|--------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 115350 | 57675 | 230700 | 113866 | -1.29 |
| 27 Naphthalene-d8 | 415895 | 207948 | 831790 | 401641 | -3.43 |
| 42 Acenaphthene-d10 | 246020 | 123010 | 492040 | 232085 | -5.66 |
| 59 Phenanthrene-d10 | 448598 | 224299 | 897196 | 421769 | -5.98 |
| 69 Chrysene-d12 | 373978 | 186989 | 747956 | 338375 | -9.52 |
| 134 Di-n-octylphthala | 541572 | 270786 | 1083144 | 478625 | -11.62 |
| 77 Perylene-d12 | 357819 | 178910 | 715638 | 315661 | -11.78 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 8.20 | 7.70 | 8.70 | 8.19 | -0.09 |
| 27 Naphthalene-d8 | 10.65 | 10.15 | 11.15 | 10.65 | 0.00 |
| 42 Acenaphthene-d10 | 14.24 | 13.74 | 14.74 | 14.23 | -0.05 |
| 59 Phenanthrene-d10 | 17.25 | 16.75 | 17.75 | 17.24 | -0.04 |
| 69 Chrysene-d12 | 22.37 | 21.87 | 22.87 | 22.36 | -0.03 |
| 134 Di-n-octylphthala | 23.48 | 22.98 | 23.98 | 23.47 | -0.03 |
| 77 Perylene-d12 | 24.71 | 24.21 | 25.21 | 24.72 | 0.00 |

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

REVIEW SUMMARY FOR FILE - NT1423022839.D

Lab ID: SLB0374-LCV4
nt14.i, ABN.m, 02-MAR-2023 00:28

RT CO-ELUTION COMPOUNDS

13.923 Acenaphthylene and 2,6-Dinitrotoluene

Quant Method: ICAL

RRT CHECK

| RRT | CCV RRT | DELTA | COMPOUND |
|-------|---------|--------|-------------------|
| 1.047 | 1.038 | 0.0095 | Benzyl alcohol |
| 1.001 | 0.973 | 0.0276 | Benzoic acid |
| 1.018 | 1.012 | 0.0054 | 2,4-Dinitrophenol |
| 1.030 | 1.024 | 0.0060 | 4-Nitrophenol |

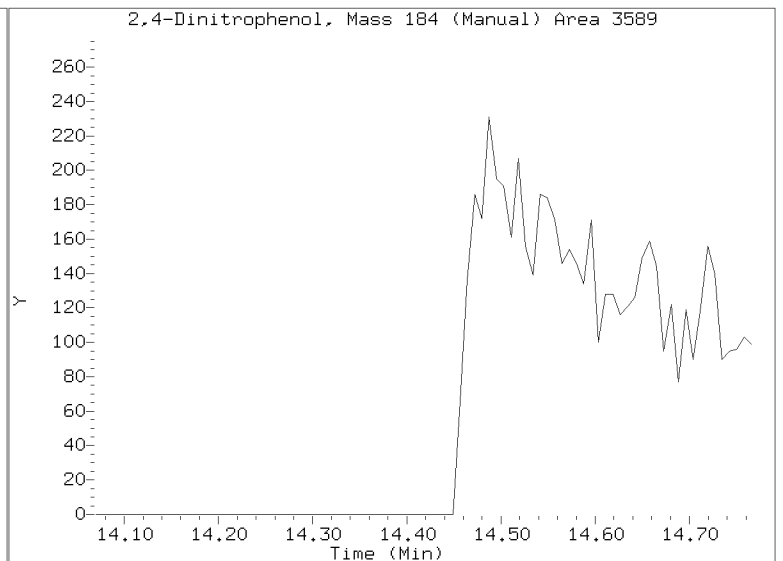
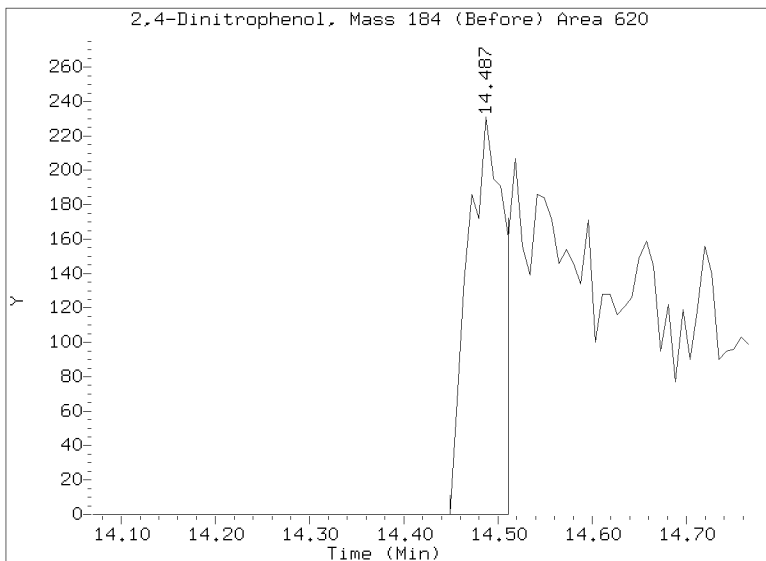
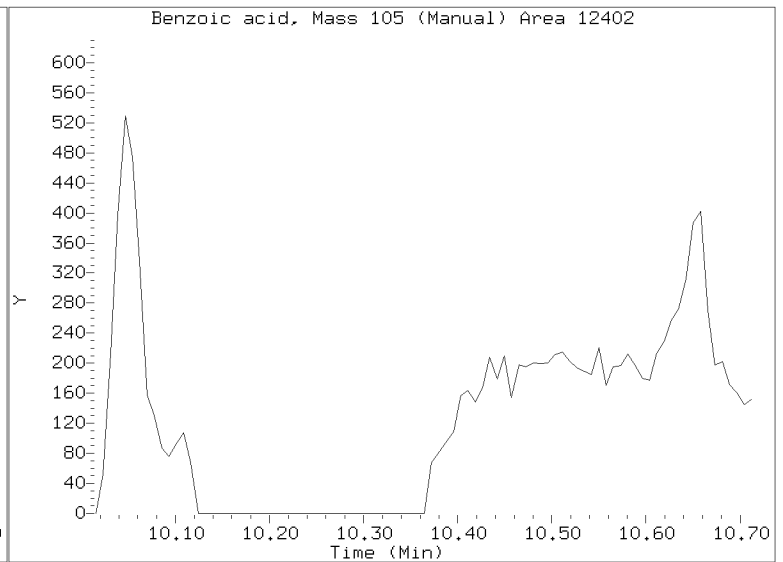
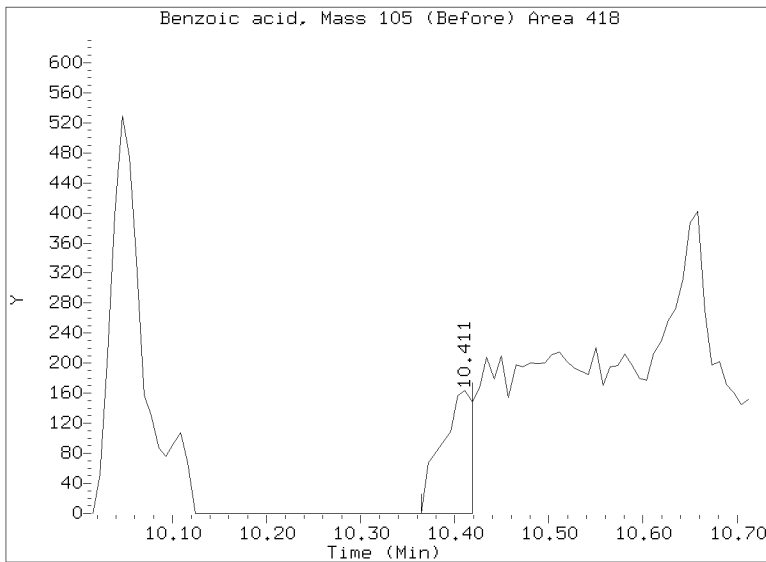
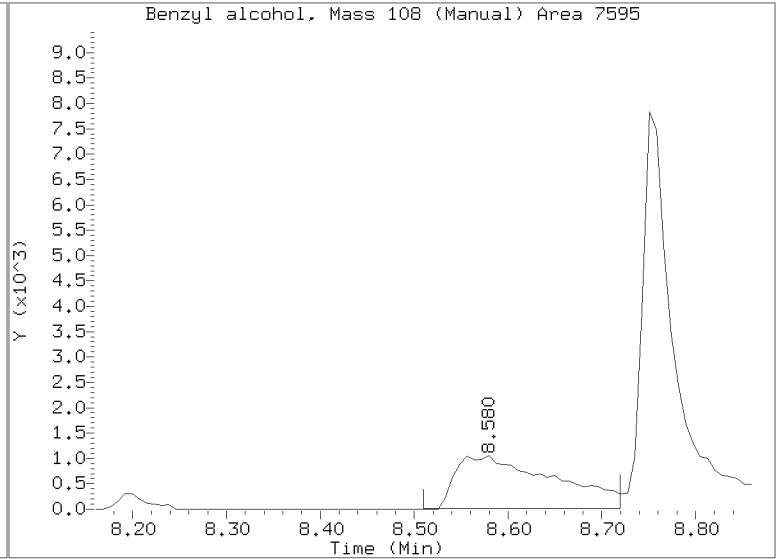
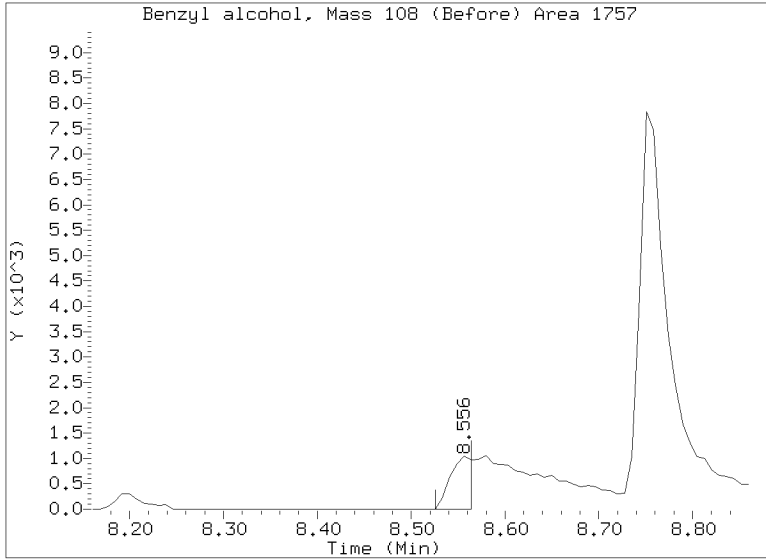
RRT check based on Ccal File: NT1423022836.D

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

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

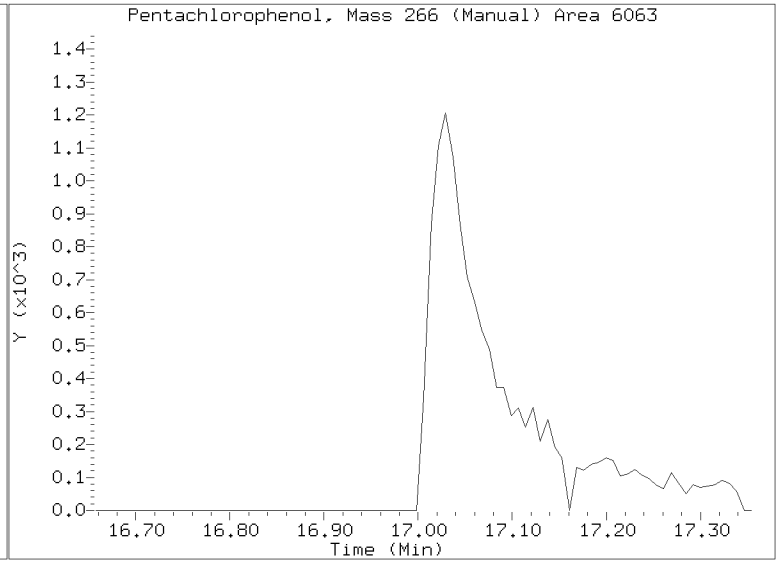
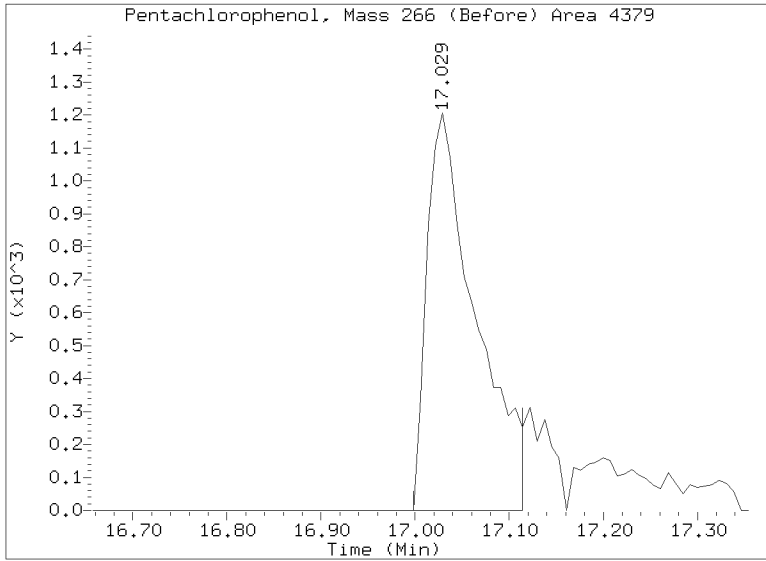
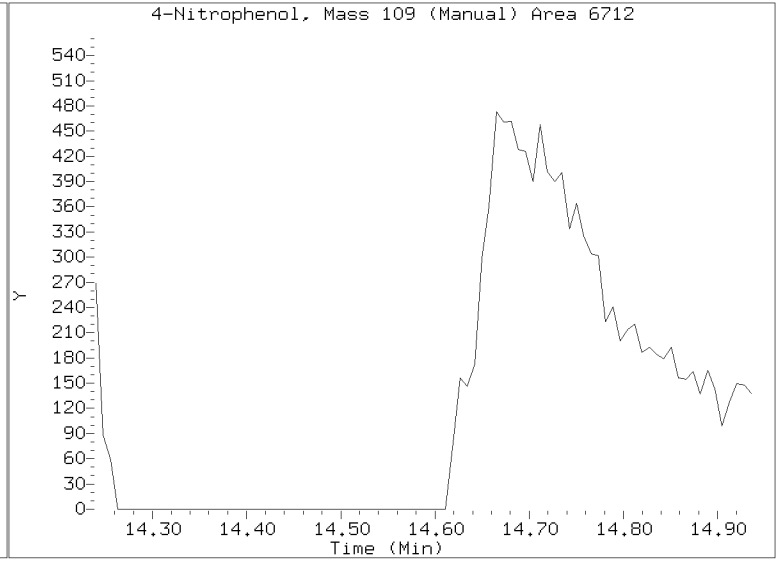
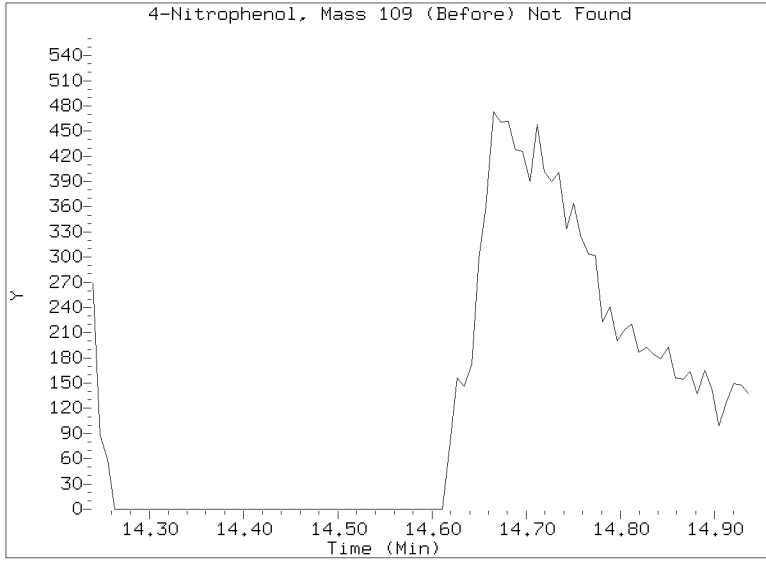
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230228.b/NT1423022839.D
Injection Date: 02-MAR-2023 00:28
Lab ID:SLB0374-LCV4 Client ID:
Report Date: 03/14/2023 08:53



Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230228.b/NT1423022839.D
Injection Date: 02-MAR-2023 00:28
Lab ID:SLB0374-LCV4 Client ID:
Report Date: 03/14/2023 08:53





**LOW-CONCENTRATION
CALIBRATION VERIFICATION
EPA 8270E**

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Calibration: GC00033

Laboratory ID: SLB0374-LCV5

Sequence: SLB0374

Standard ID: K011105

| ANALYTE | EXPECTED (ug/mL) | FOUND (ug/mL) | % DRIFT | QC LIMIT |
|------------------------------|---------------------|------------------|---------|----------|
| Phenol | 0.20000 | 0.2 | -16.8 | 50.00 |
| bis(2-chloroethyl) ether | 0.20000 | 0.2 | 18.3 | 50.00 |
| 2-Chlorophenol | 0.20000 | 0.2 | 4.1 | 50.00 |
| 1,3-Dichlorobenzene | 0.20000 | 0.2 | 7.1 | 50.00 |
| 1,4-Dichlorobenzene | 0.20000 | 0.2 | 4.0 | 50.00 |
| 1,2-Dichlorobenzene | 0.20000 | 0.2 | 5.4 | 50.00 |
| Benzyl Alcohol | 0.20000 | 0.08 | -59.0 * | 50.00 |
| 2,2'-Oxybis(1-chloropropane) | 0.20000 | 0.2 | 1.2 | 50.00 |
| 2-Methylphenol | 0.20000 | 0.2 | -13.1 | 50.00 |
| Hexachloroethane | 0.20000 | 0.2 | -24.6 | 50.00 |
| N-Nitroso-di-n-Propylamine | 0.20000 | 0.2 | 6.0 | 50.00 |
| 4-Methylphenol | 0.20000 | 0.1 | -30.1 | 50.00 |
| Nitrobenzene | 0.20000 | 0.2 | 2.4 | 50.00 |
| Isophorone | 0.20000 | 0.2 | -18.0 | 50.00 |
| 2-Nitrophenol | 0.20000 | 0.1 | -34.6 | 50.00 |
| 2,4-Dimethylphenol | 0.40000 | 0.4 | 1.7 | 50.00 |
| Bis(2-Chloroethoxy)methane | 0.20000 | 0.2 | -9.2 | 50.00 |
| 2,4-Dichlorophenol | 0.40000 | 0.3 | -17.7 | 50.00 |
| 1,2,4-Trichlorobenzene | 0.20000 | 0.2 | -2.2 | 50.00 |
| Naphthalene | 0.20000 | 0.2 | 9.1 | 50.00 |
| Benzoic acid | 0.80000 | 0.0 | * | 50.00 |
| 4-Chloroaniline | 0.40000 | 0.3 | -14.4 | 50.00 |
| Hexachlorobutadiene | 0.20000 | 0.2 | -9.4 | 50.00 |
| 4-Chloro-3-Methylphenol | 0.40000 | 0.3 | -14.2 | 50.00 |
| 2-Methylnaphthalene | 0.20000 | 0.2 | -7.7 | 50.00 |
| Hexachlorocyclopentadiene | 0.40000 | 0.0 | * | 50.00 |
| 2,4,6-Trichlorophenol | 0.40000 | 0.3 | -19.0 | 50.00 |
| 2,4,5-Trichlorophenol | 0.40000 | 0.4 | 4.7 | 50.00 |
| 2-Chloronaphthalene | 0.20000 | 0.2 | 4.2 | 50.00 |



**LOW-CONCENTRATION
CALIBRATION VERIFICATION
EPA 8270E**

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Calibration: GC00033

Laboratory ID: SLB0374-LCV5

Sequence: SLB0374

Standard ID: K011105

| | | | | |
|----------------------------|---------|-----|-------|---------|
| 2-Nitroaniline | 0.40000 | 0.4 | -8.2 | 50.00 |
| Acenaphthylene | 0.20000 | 0.2 | 9.2 | 50.00 |
| Dimethylphthalate | 0.20000 | 0.2 | 4.8 | 50.00 |
| 2,6-Dinitrotoluene | 0.40000 | 0.4 | -8.9 | 50.00 |
| Acenaphthene | 0.20000 | 0.2 | 5.3 | 50.00 |
| 3-Nitroaniline | 0.40000 | 0.3 | -22.9 | 50.00 |
| 2,4-Dinitrophenol | 0.80000 | 0.0 | * | 50.00 |
| Dibenzofuran | 0.20000 | 0.2 | 0.07 | 50.00 |
| 4-Nitrophenol | 0.40000 | 0.0 | * | 50.00 |
| 2,4-Dinitrotoluene | 0.40000 | 0.3 | -26.5 | 50.00 |
| Fluorene | 0.20000 | 0.2 | 6.0 | 50.00 |
| 4-Chlorophenylphenyl ether | 0.20000 | 0.2 | -2.0 | 50.00 |
| Diethyl phthalate | 0.20000 | 0.2 | 8.4 | 50.00 |
| 4-Nitroaniline | 0.40000 | 0.3 | -27.2 | 50.00 |
| 4,6-Dinitro-2-methylphenol | 0.80000 | 0.2 | -79.4 | * 50.00 |
| N-Nitrosodiphenylamine | 0.20000 | 0.2 | 8.3 | 50.00 |
| 4-Bromophenyl phenyl ether | 0.20000 | 0.2 | -3.7 | 50.00 |
| Hexachlorobenzene | 0.20000 | 0.2 | 0.7 | 50.00 |
| Pentachlorophenol | 0.40000 | 0.1 | -63.7 | * 50.00 |
| Phenanthrene | 0.20000 | 0.2 | 5.2 | 50.00 |
| Anthracene | 0.20000 | 0.2 | 2.4 | 50.00 |
| Carbazole | 0.20000 | 0.2 | -6.2 | 50.00 |
| Di-n-Butylphthalate | 0.20000 | 0.2 | -3.3 | 50.00 |
| Fluoranthene | 0.20000 | 0.2 | -11.8 | 50.00 |
| Pyrene | 0.20000 | 0.2 | -8.1 | 50.00 |
| Butylbenzylphthalate | 0.20000 | 0.2 | -0.04 | 50.00 |
| Benzo(a)anthracene | 0.20000 | 0.2 | 10.3 | 50.00 |
| 3,3'-Dichlorobenzidine | 0.60000 | 0.7 | 19.5 | 50.00 |
| Chrysene | 0.20000 | 0.2 | 6.2 | 50.00 |
| bis(2-Ethylhexyl)phthalate | 0.20000 | 0.2 | -9.4 | 50.00 |
| Di-n-Octylphthalate | 0.20000 | 0.2 | 3.0 | 50.00 |



**LOW-CONCENTRATION
CALIBRATION VERIFICATION
EPA 8270E**

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Calibration: GC00033

Laboratory ID: SLB0374-LCV5

Sequence: SLB0374

Standard ID: K011105

| | | | | |
|---------------------------|---------|-------|---------|-------|
| Benzofluoranthenes, Total | 0.40000 | 0.5 | 30.2 | 50.00 |
| Benzo(a)pyrene | 0.20000 | 0.2 | 9.2 | 50.00 |
| Indeno(1,2,3-cd)pyrene | 0.20000 | 0.09 | -54.9 * | 50.00 |
| Dibenzo(a,h)anthracene | 0.20000 | 0.09 | -54.4 * | 50.00 |
| Benzo(g,h,i)perylene | 0.20000 | 0.07 | -64.0 * | 50.00 |
| 1-Methylnaphthalene | 0.20000 | 0.2 | -2.9 | 50.00 |
| 2-Fluorophenol | 0.30000 | 0.216 | -28.0 | 50.00 |
| Phenol-d5 | 0.30000 | 0.236 | -21.2 | 50.00 |
| 2-Chlorophenol-d4 | 0.30000 | 0.281 | -6.2 | 50.00 |
| 1,2-Dichlorobenzene-d4 | 0.20000 | 0.194 | -3.1 | 50.00 |
| Nitrobenzene-d5 | 0.20000 | 0.205 | 2.4 | 50.00 |
| 2-Fluorobiphenyl | 0.20000 | 0.208 | 4.0 | 50.00 |
| 2,4,6-Tribromophenol | 0.30000 | 0.225 | -25.1 | 50.00 |
| p-Terphenyl-d14 | 0.20000 | 0.180 | -10.2 | 50.00 |

* Values outside of QC limits

Data File: \\target\share\chem3\nt14,1\20230228 JB\NT1423022850.D

Date: 02-MAR-2023 07:04

Client ID:

Sample Info: SLB0374-LCWS

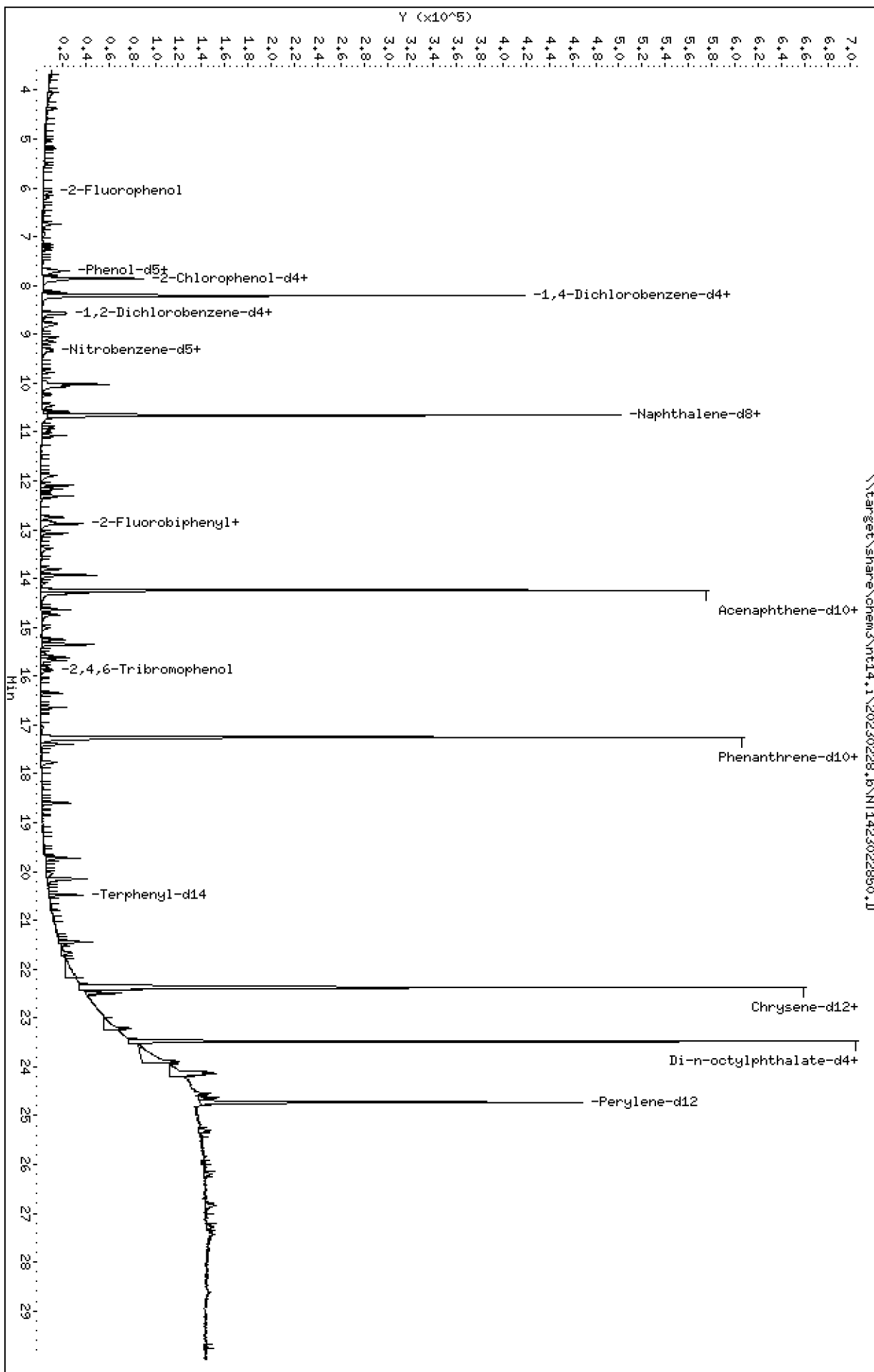
Column phase: ZB-5msi

Instrument: nt14,1

Operator: JGR

Column diameter: 0.25

Page 1



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

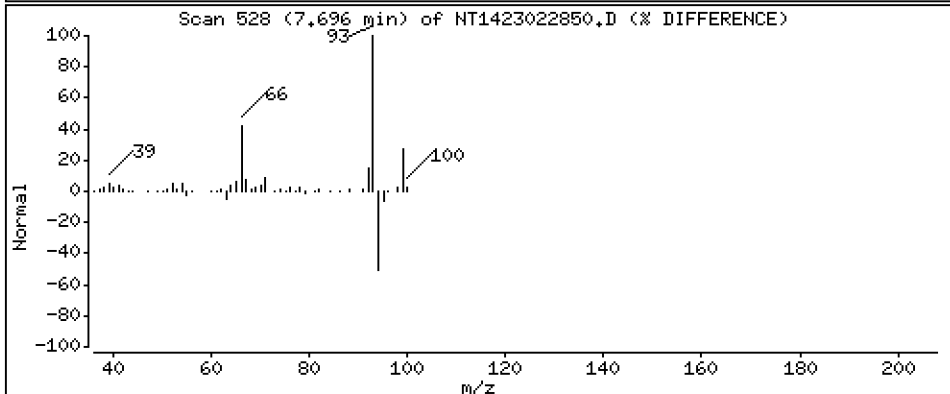
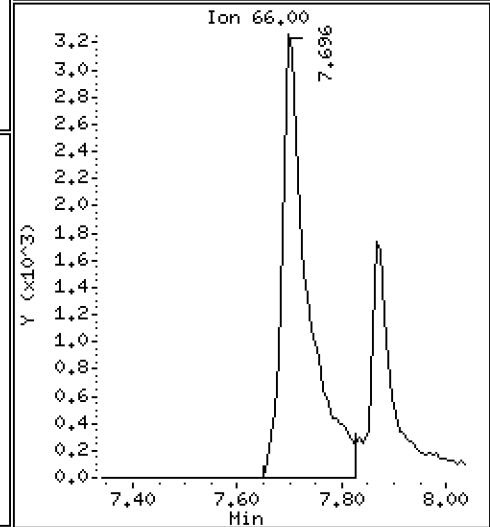
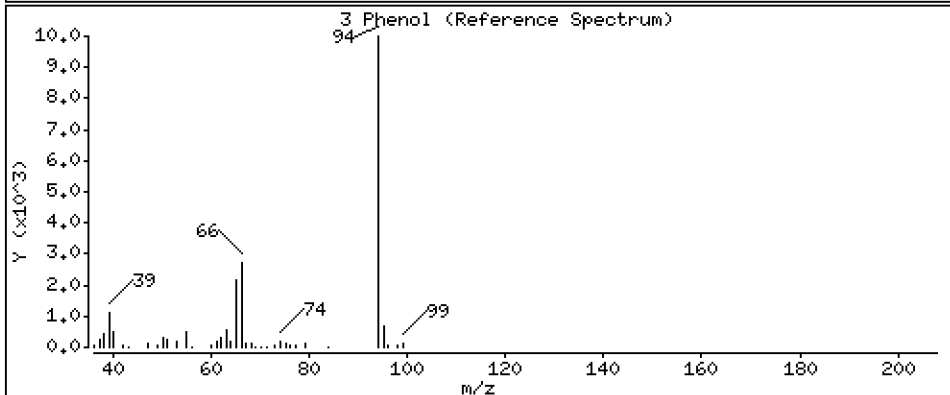
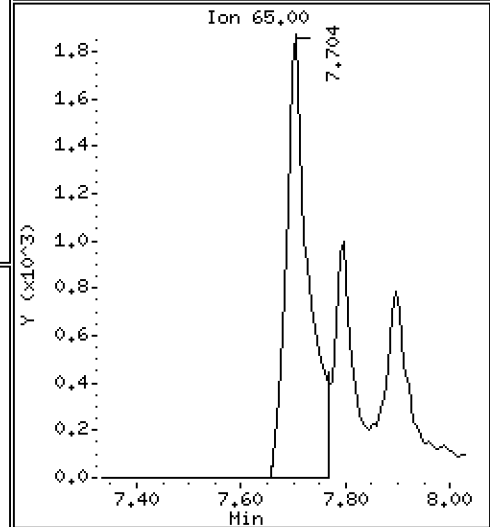
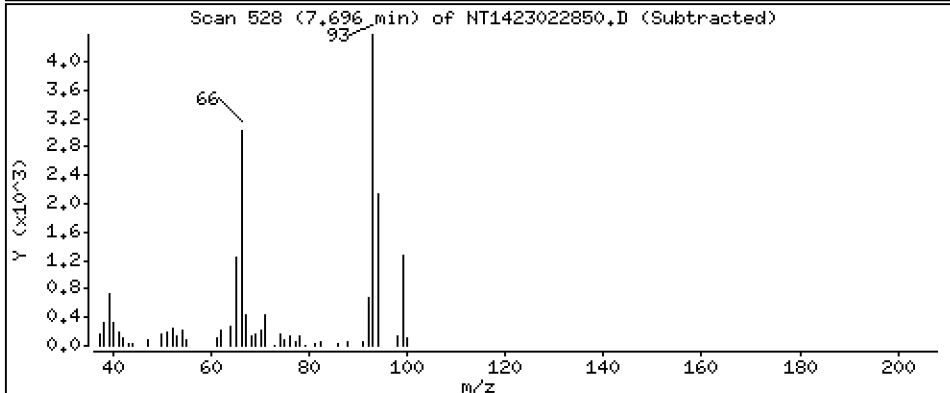
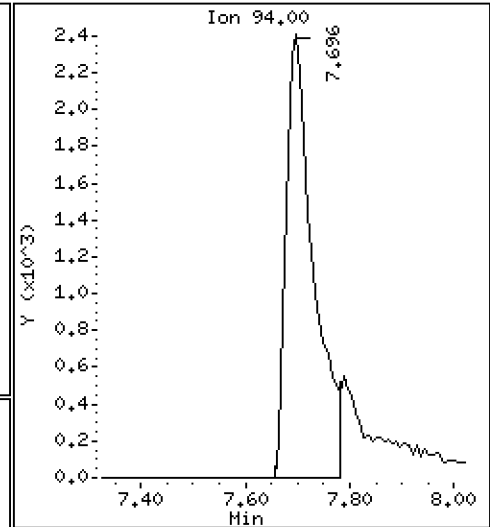
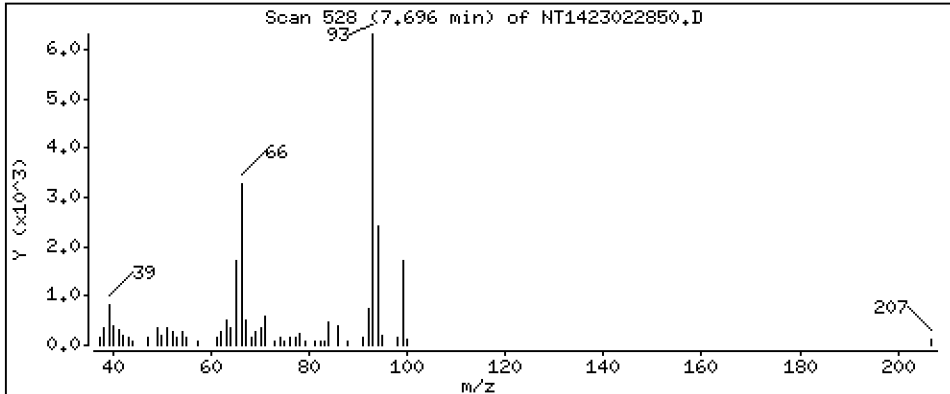
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 0,1665 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

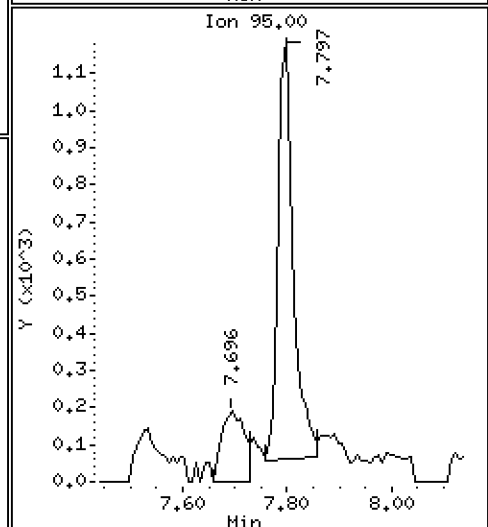
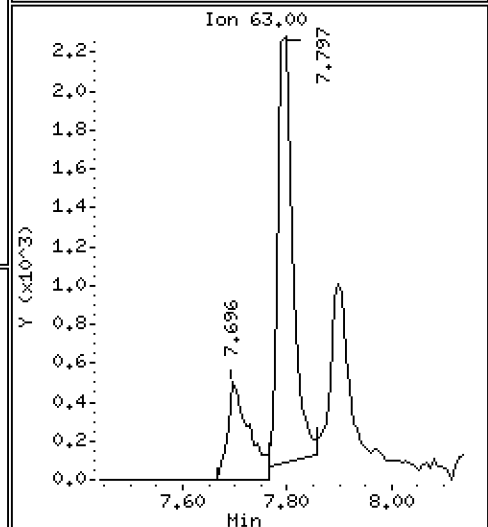
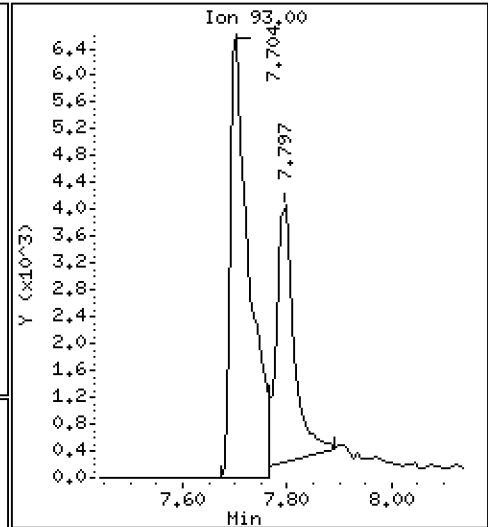
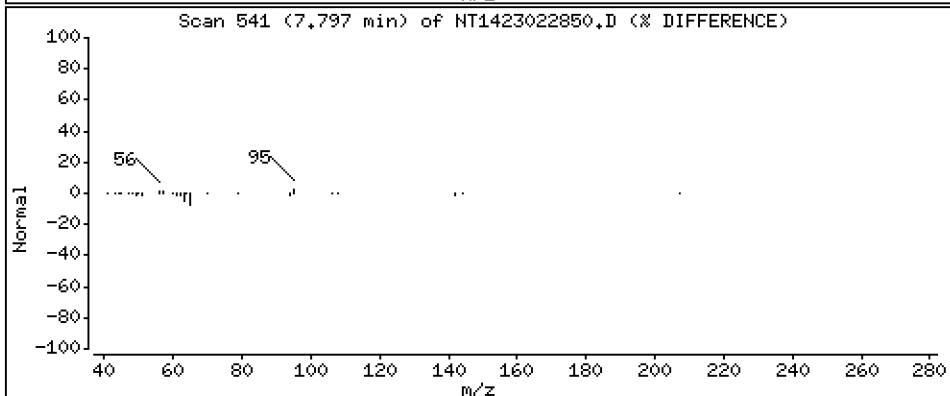
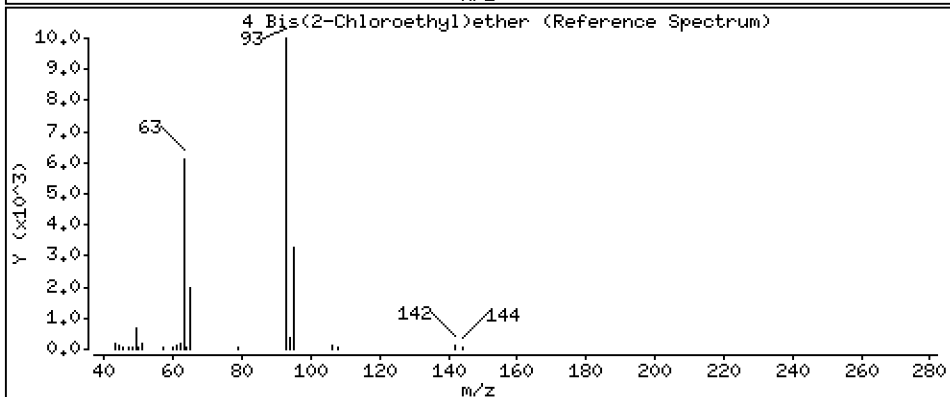
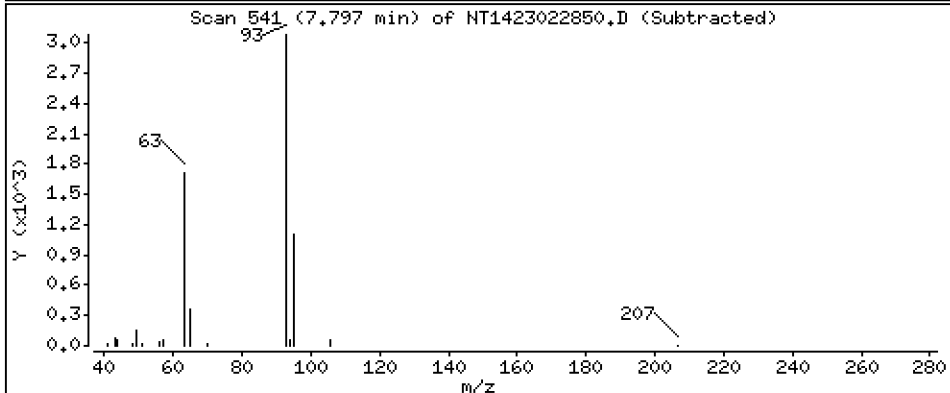
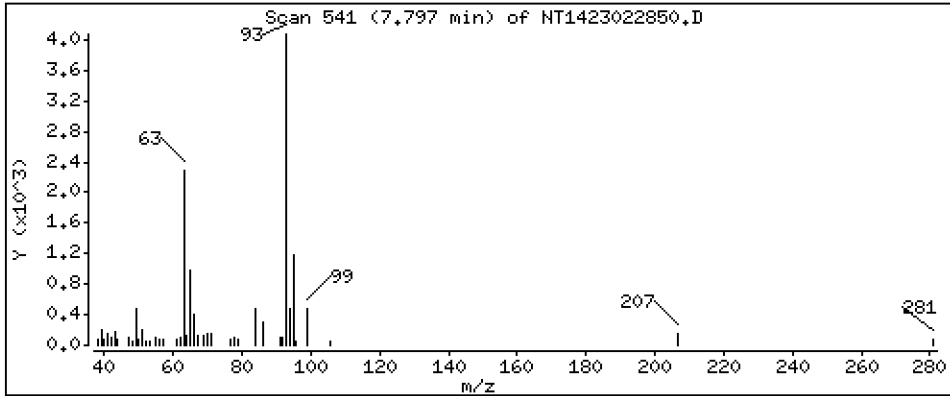
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

4 Bis(2-Chloroethyl)ether

Concentration: 0.2366 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

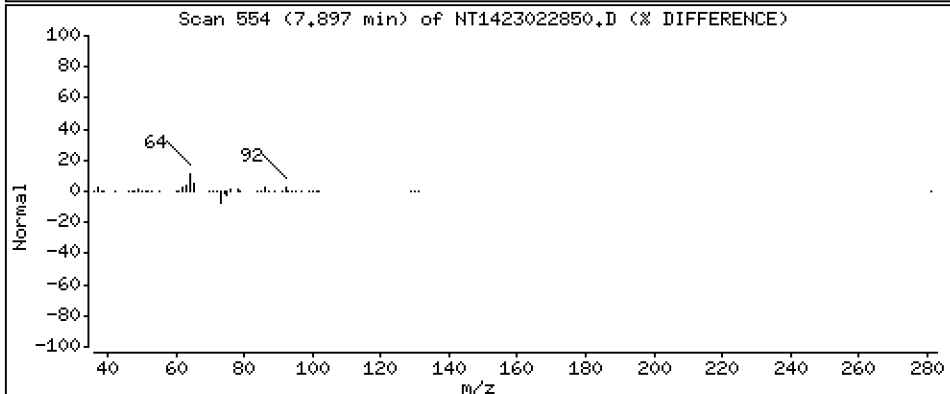
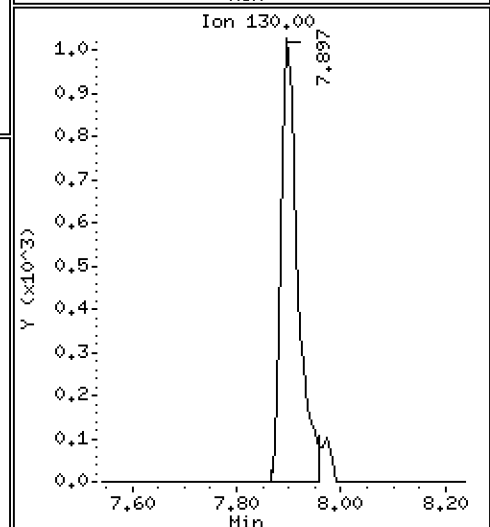
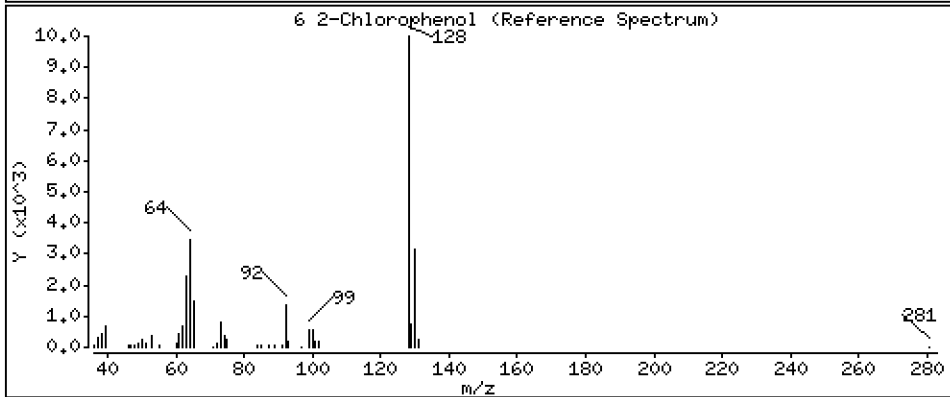
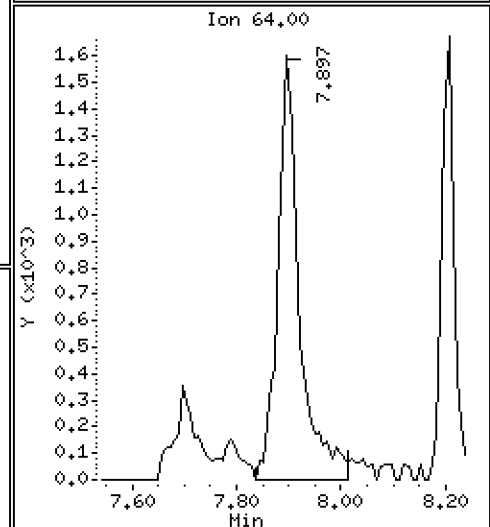
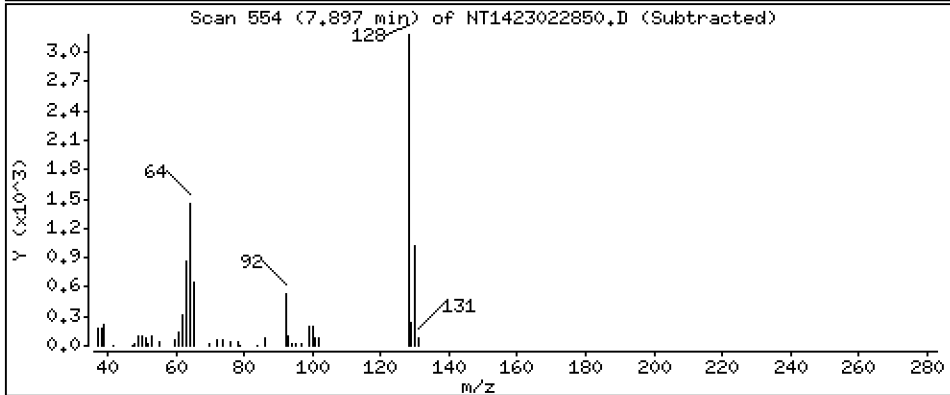
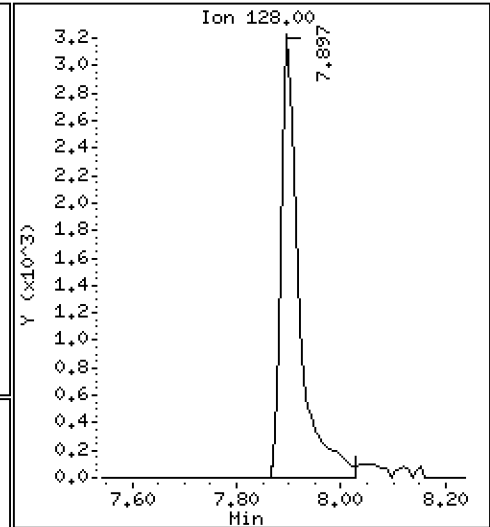
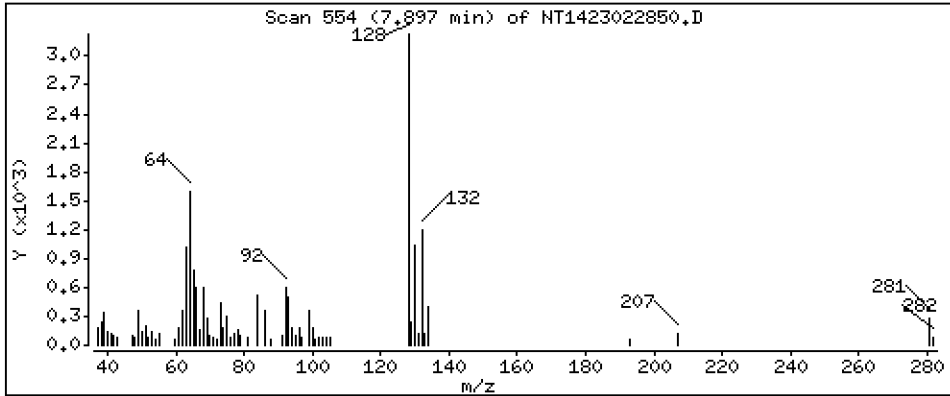
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 0,2081 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

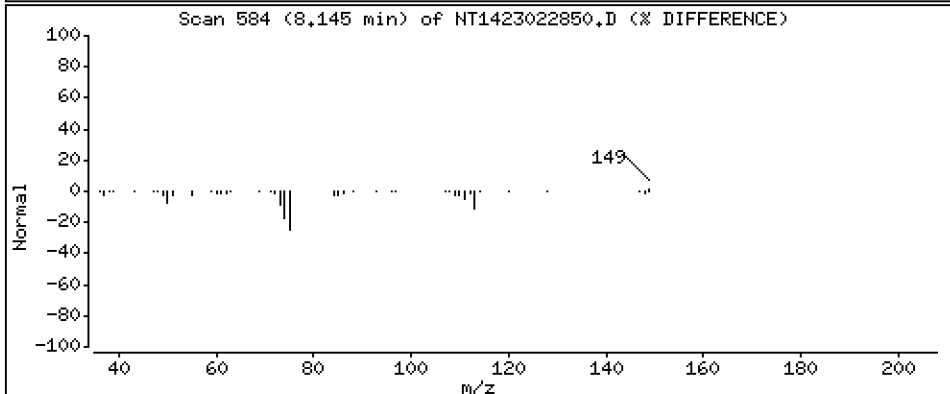
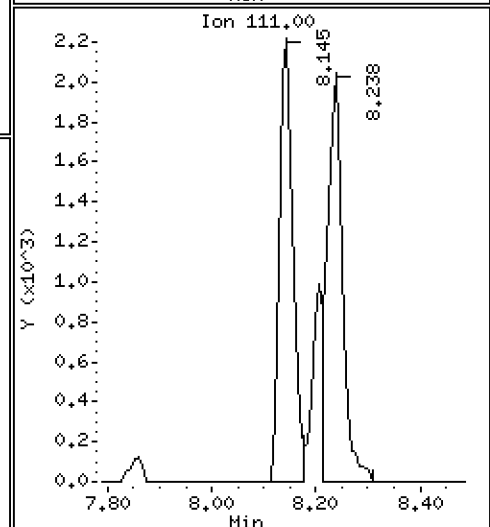
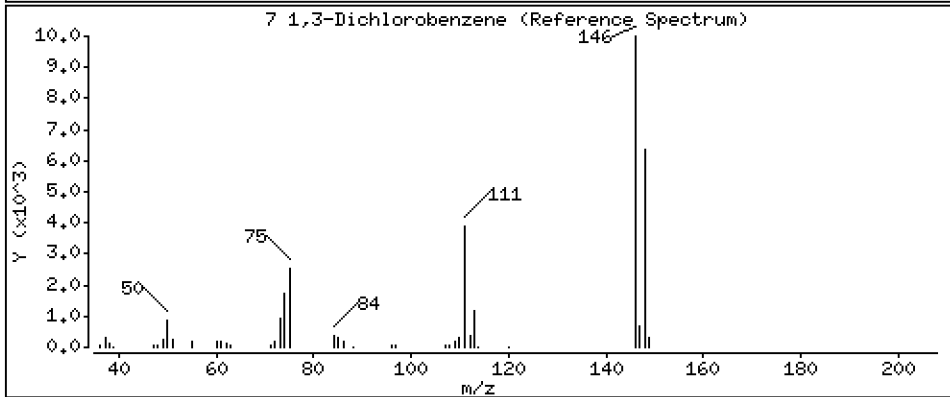
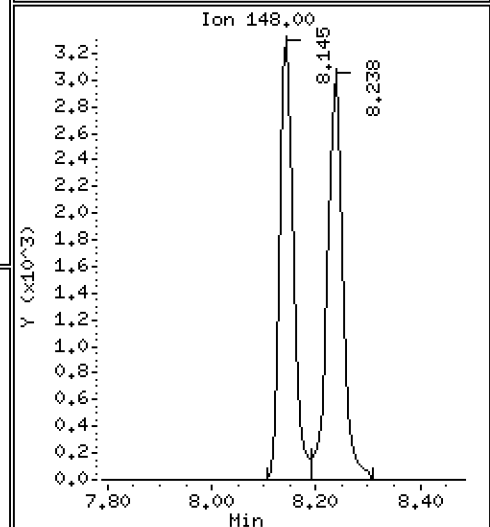
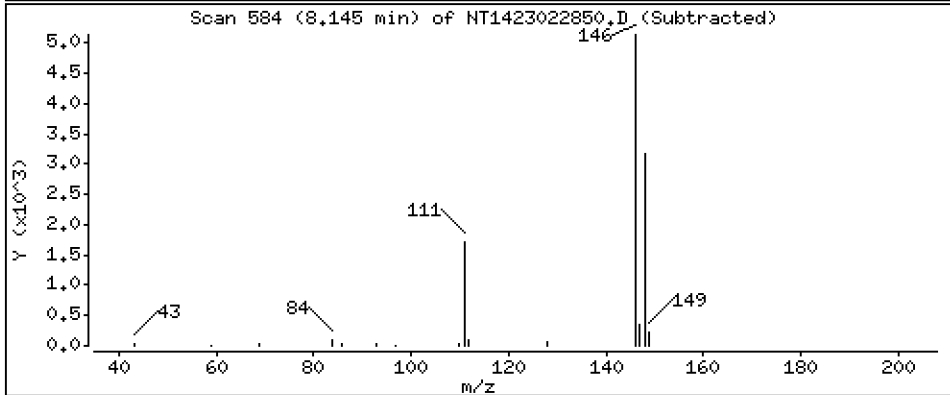
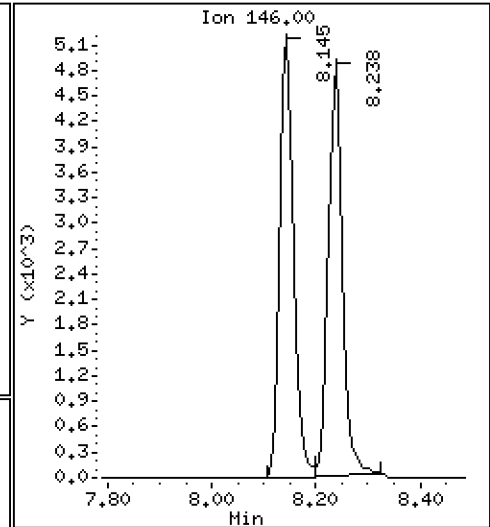
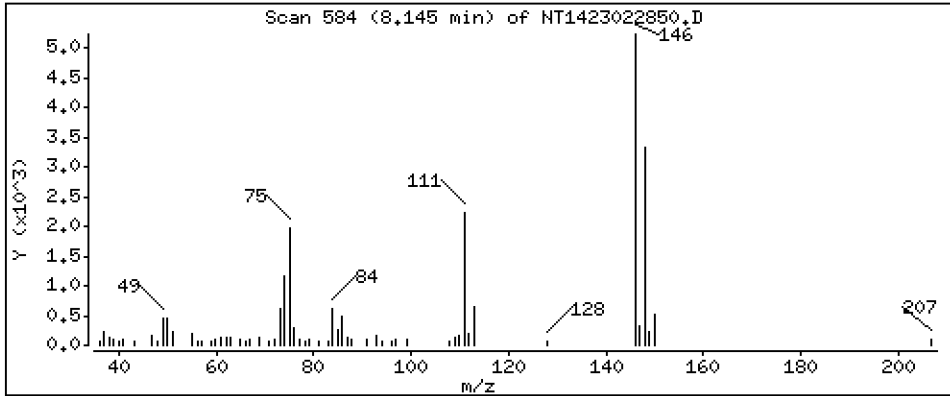
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

7 1,3-Dichlorobenzene

Concentration: 0.2141 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

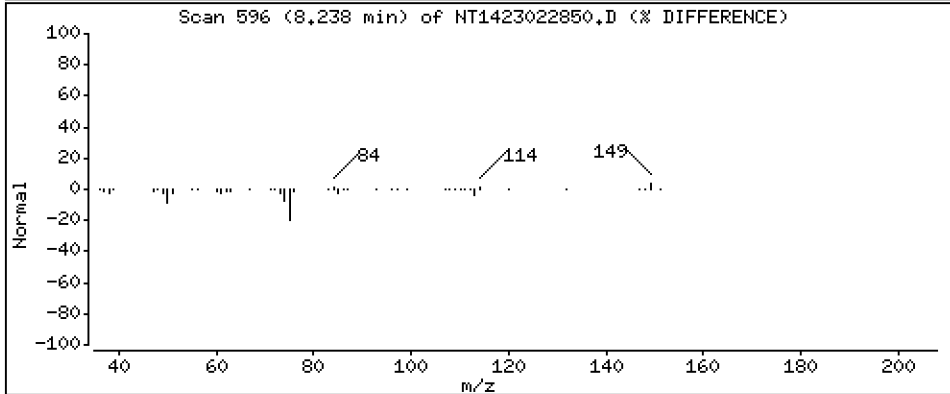
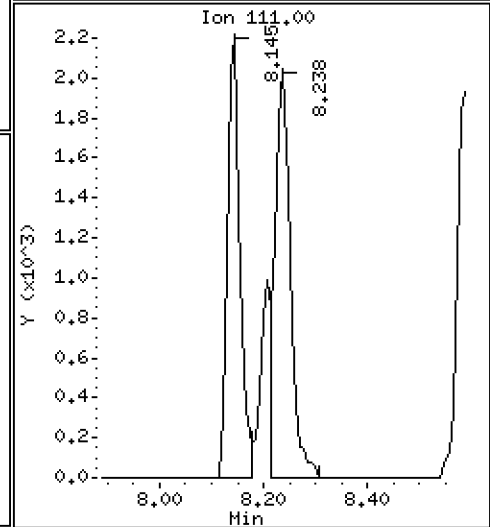
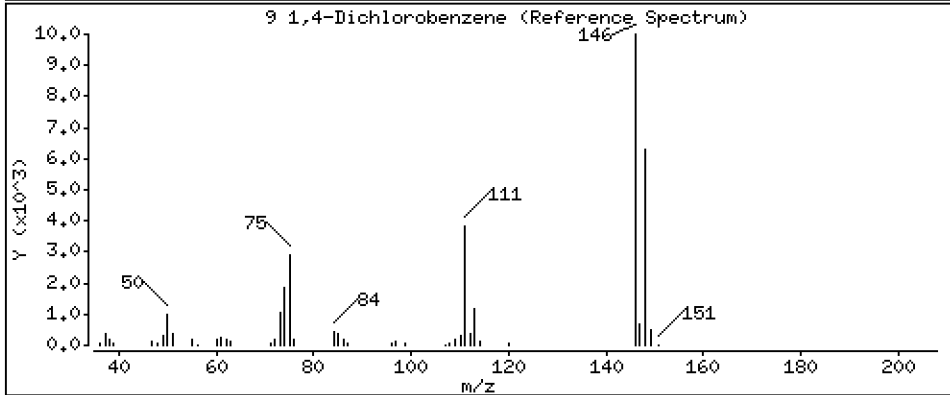
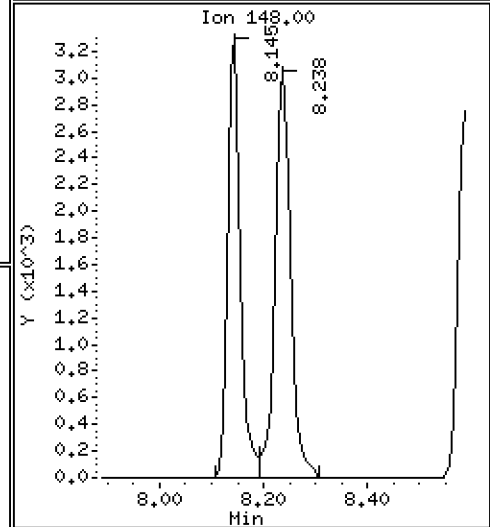
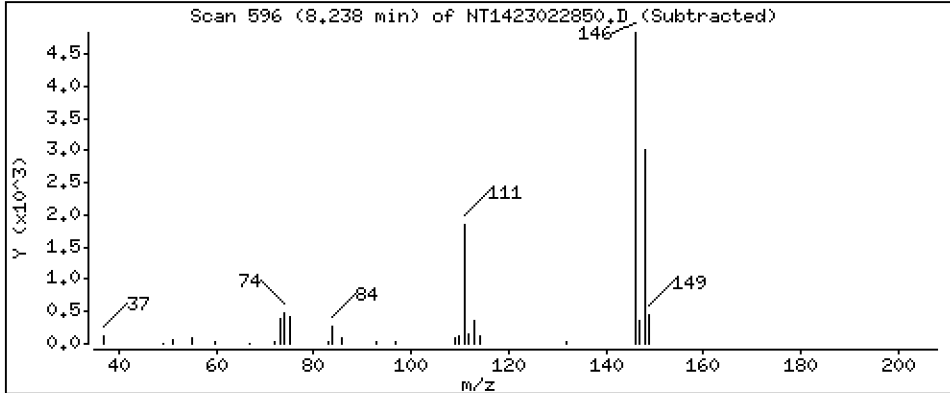
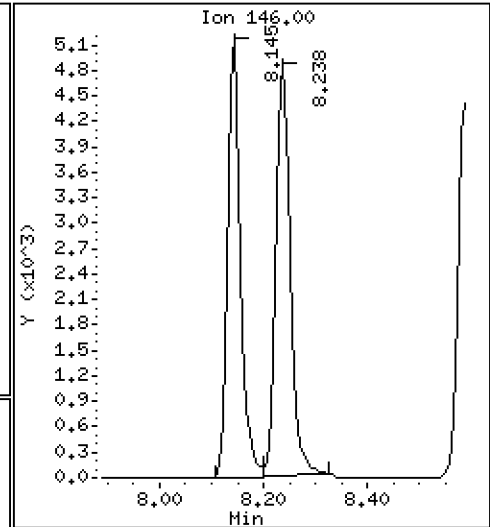
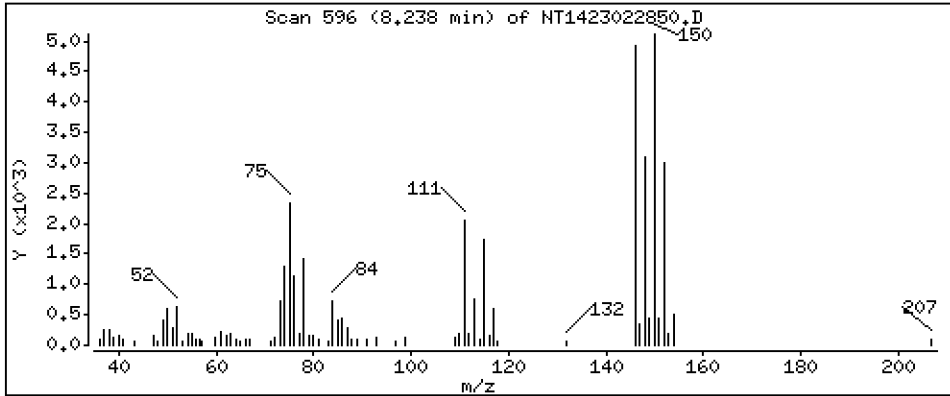
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 0,2080 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

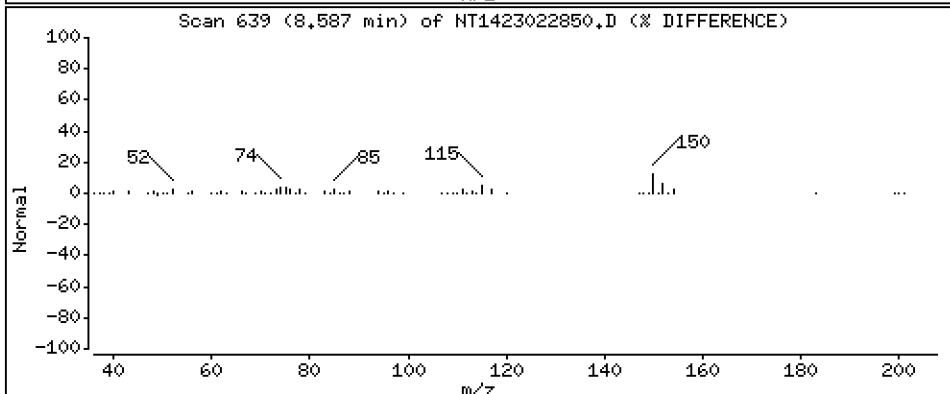
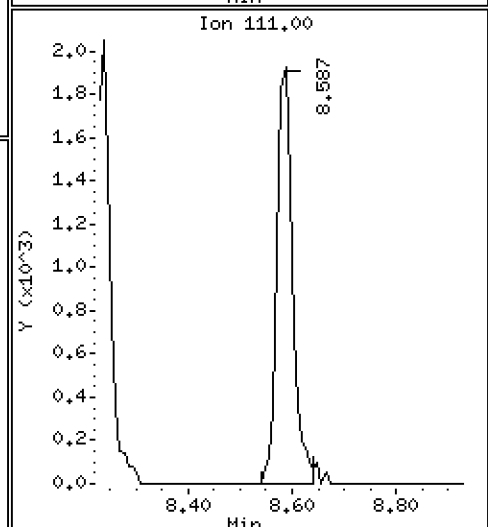
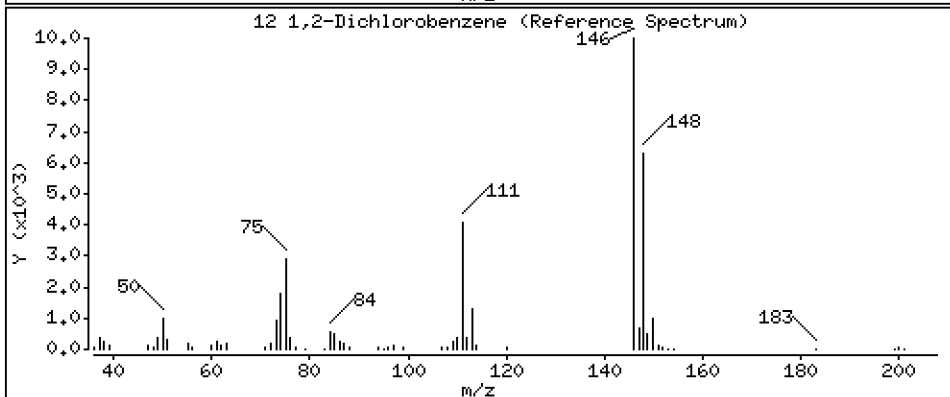
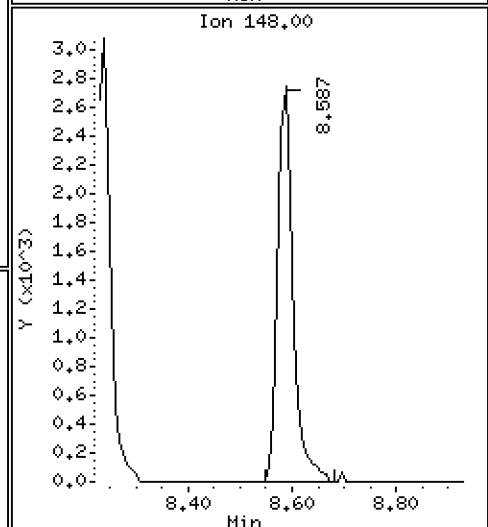
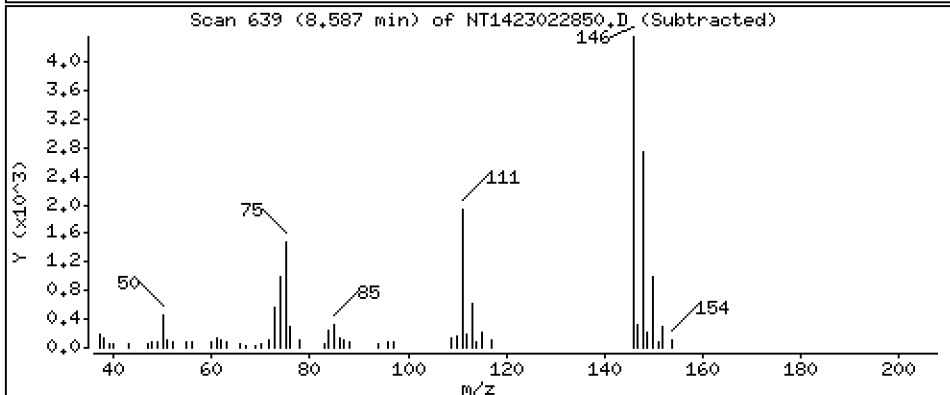
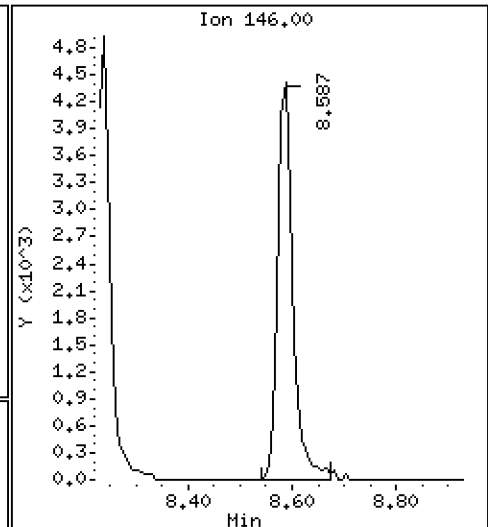
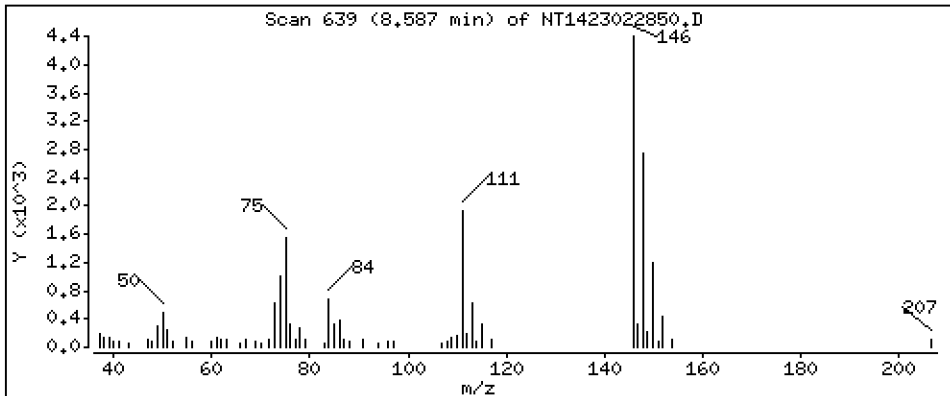
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

12 1,2-Dichlorobenzene

Concentration: 0,2109 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

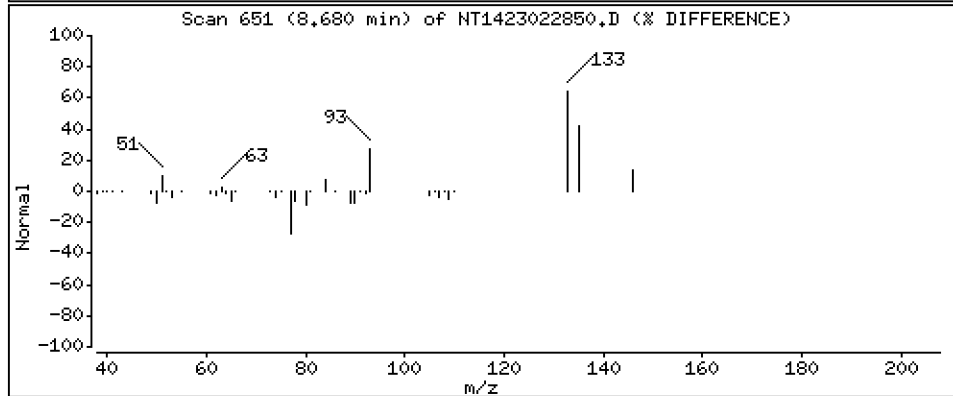
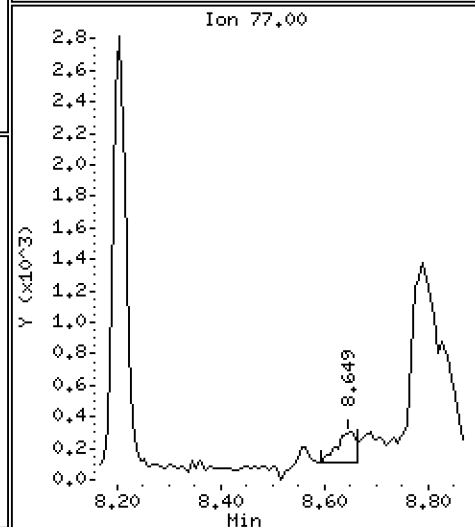
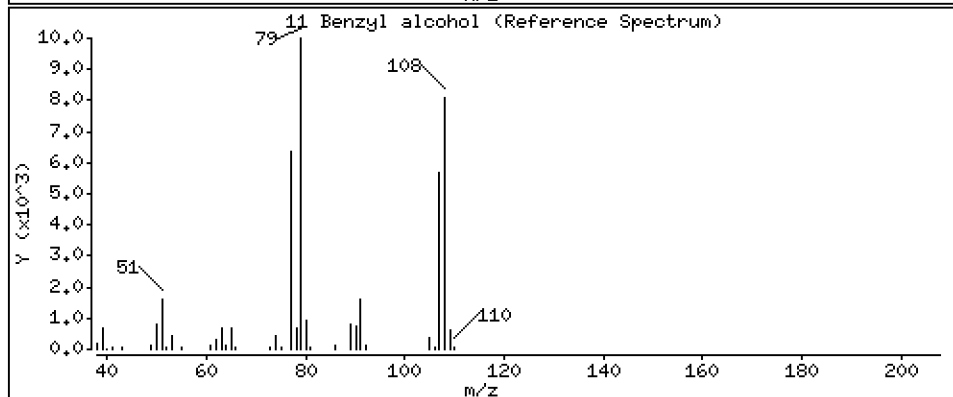
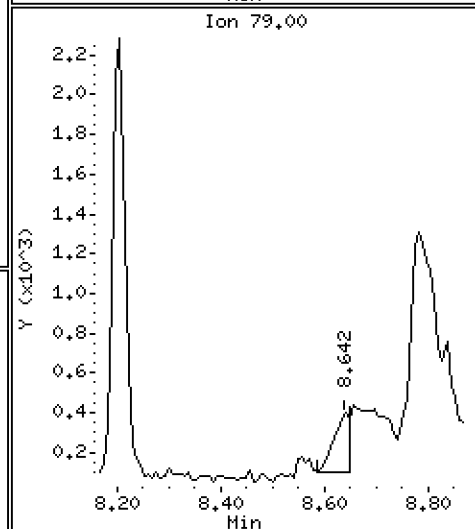
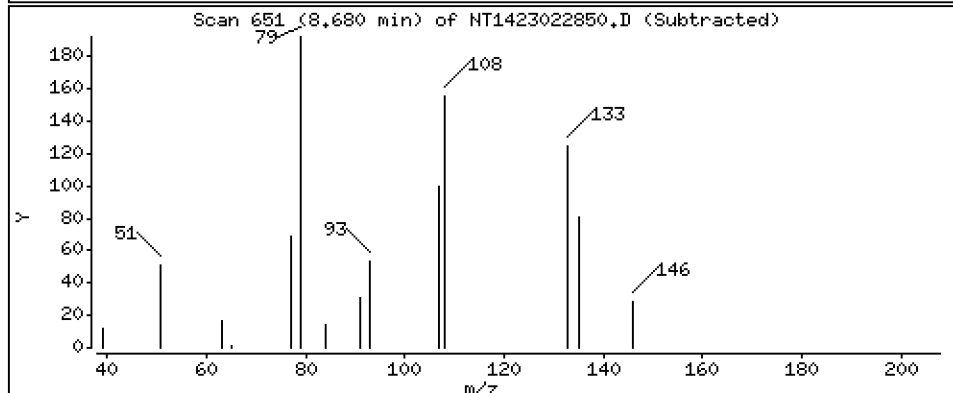
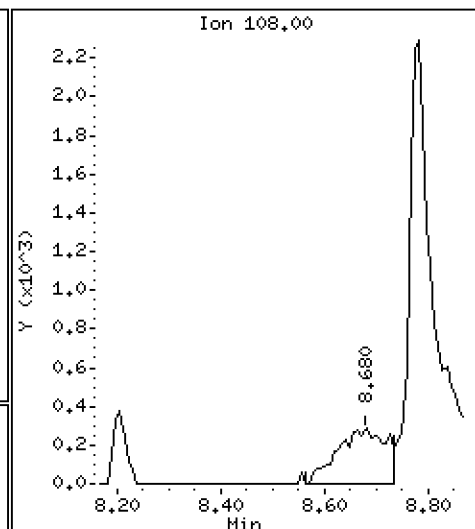
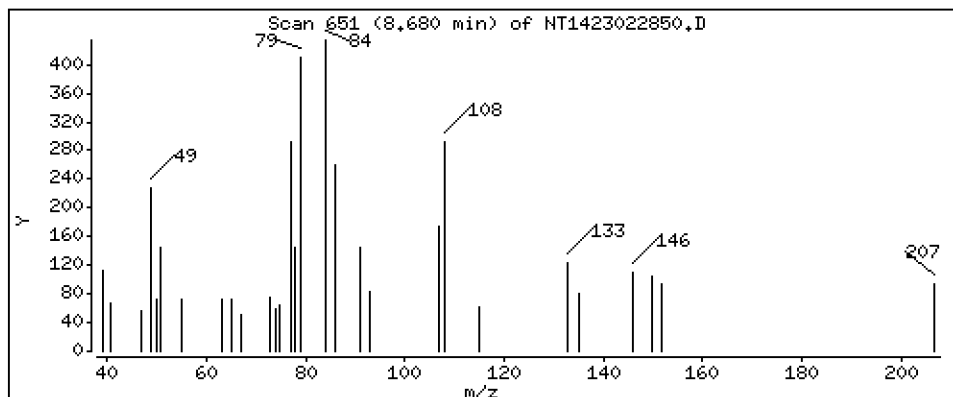
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

11 Benzyl alcohol

Concentration: 0,08203 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

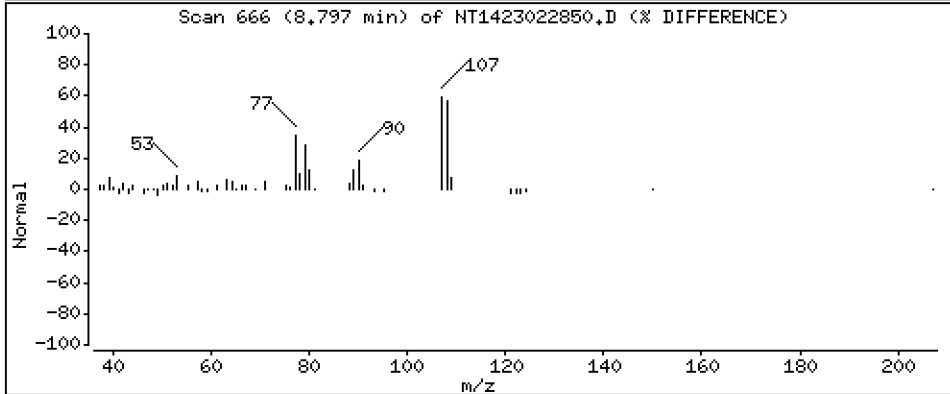
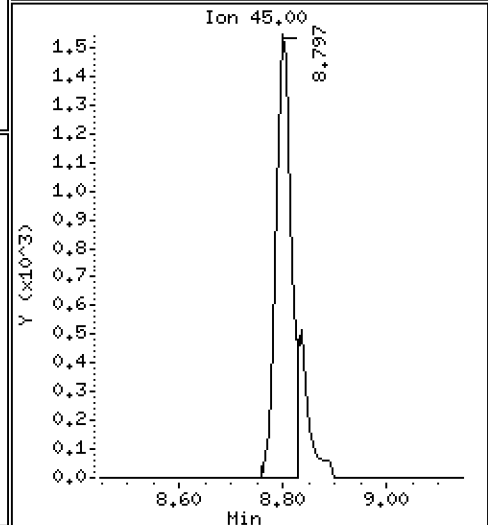
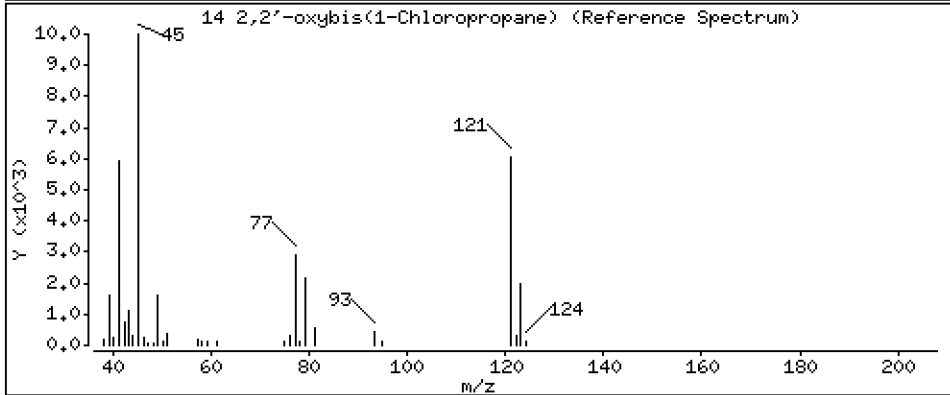
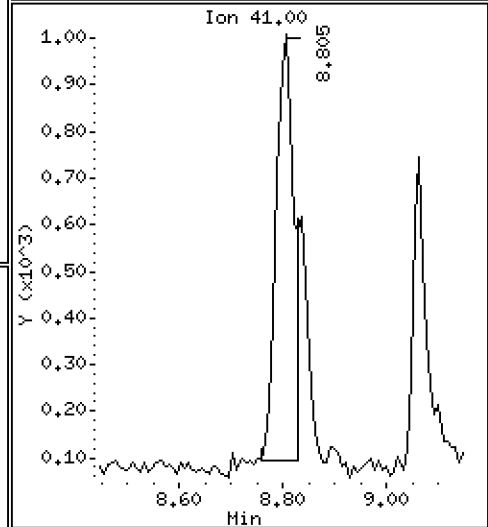
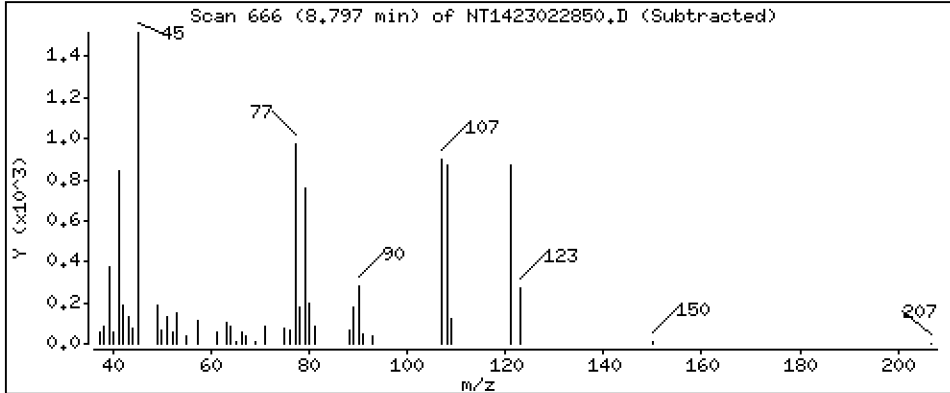
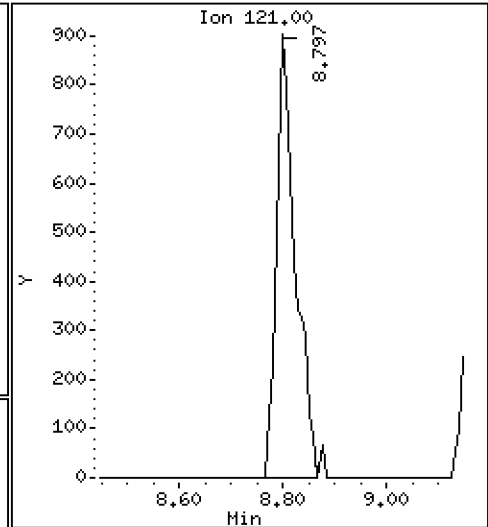
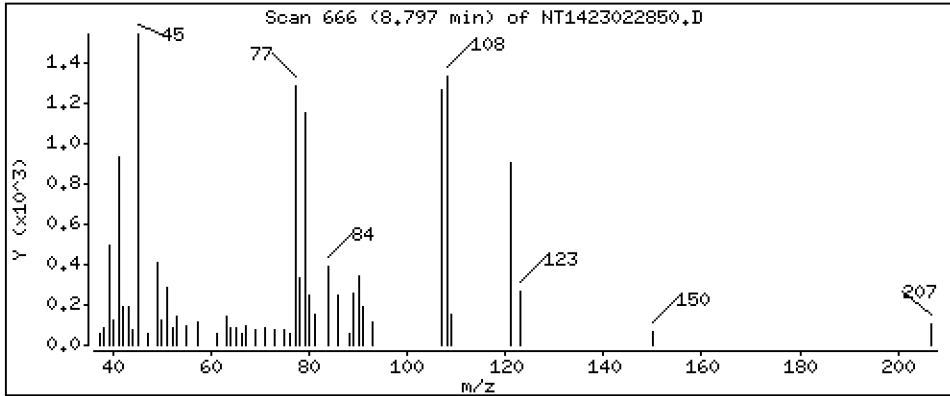
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

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

Concentration: 0.2023 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

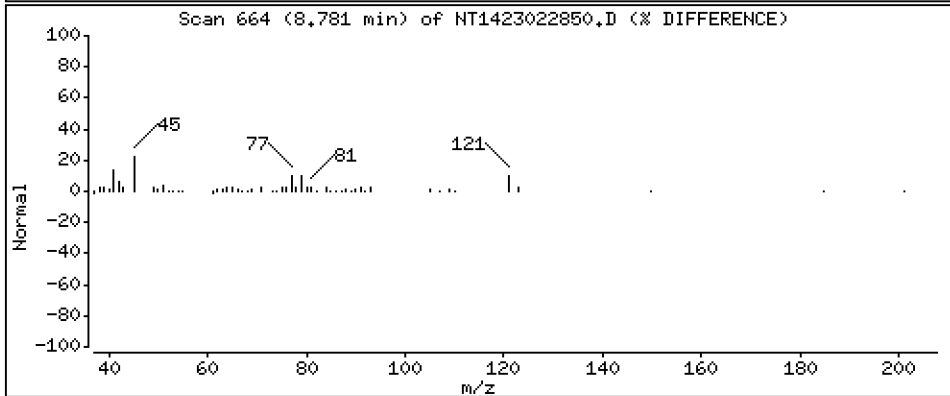
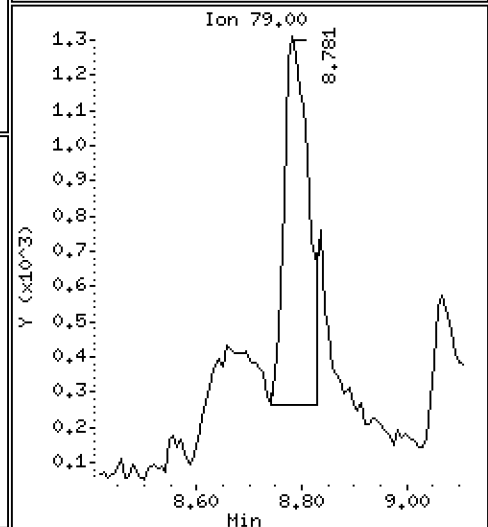
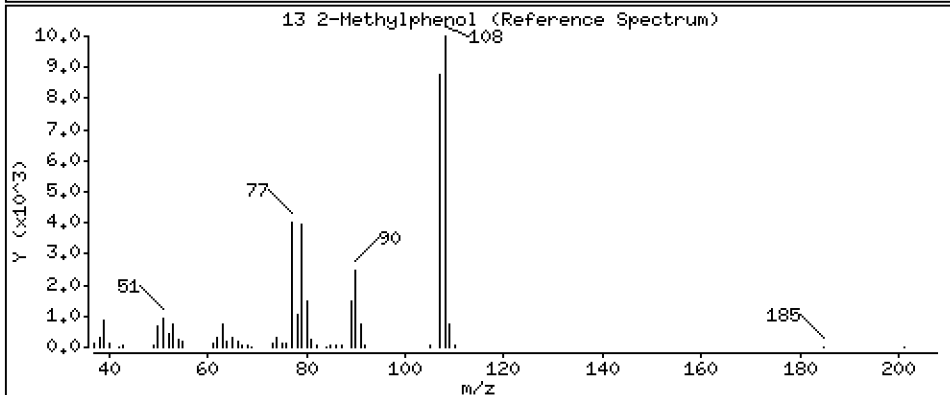
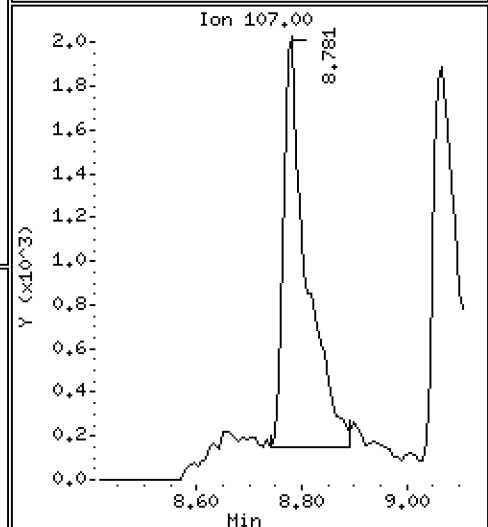
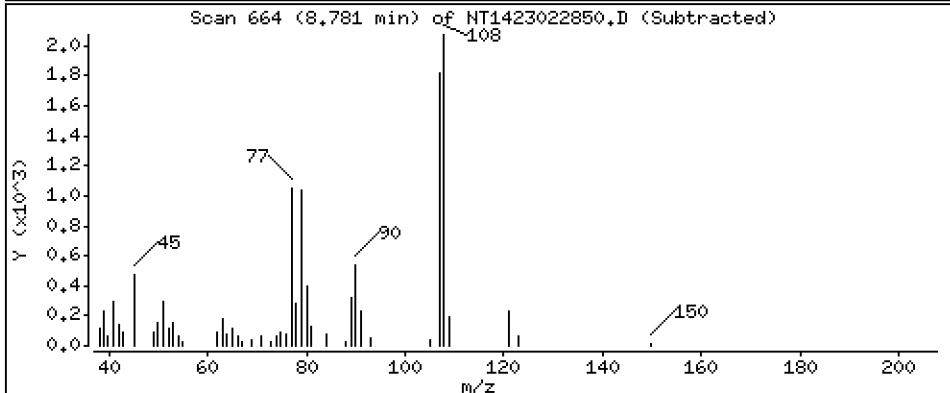
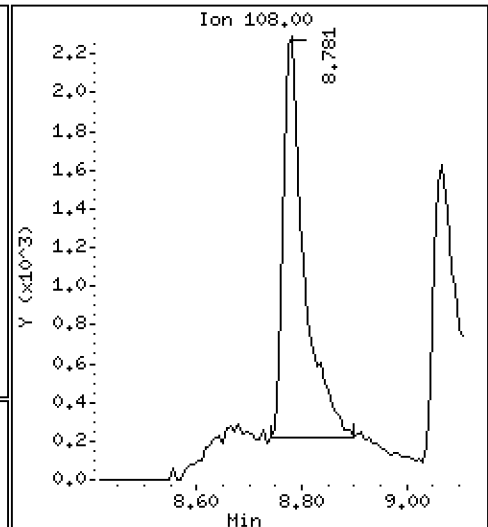
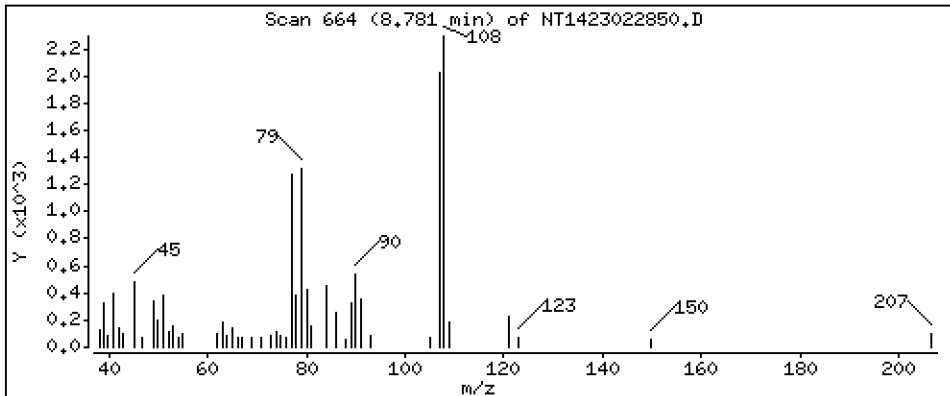
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

13 2-Methylphenol

Concentration: 0.1738 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

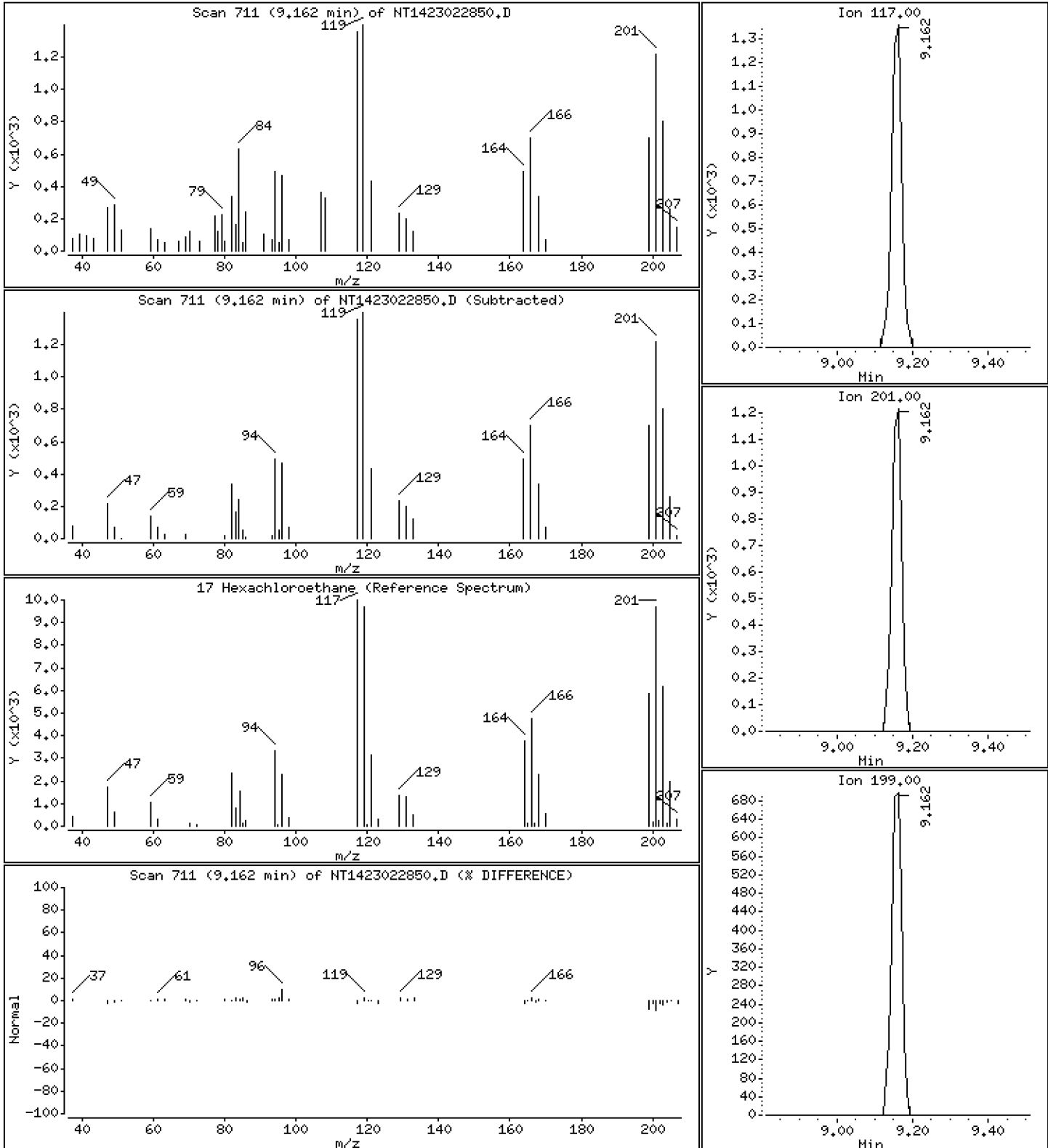
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

17 Hexachloroethane

Concentration: 0.1509 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

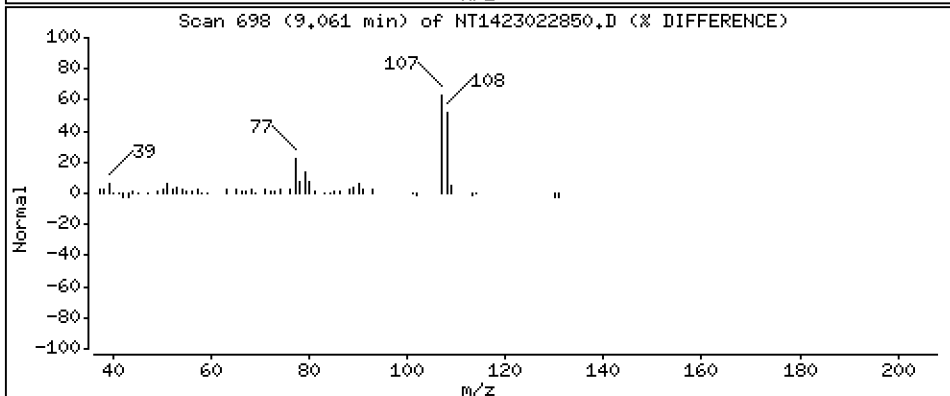
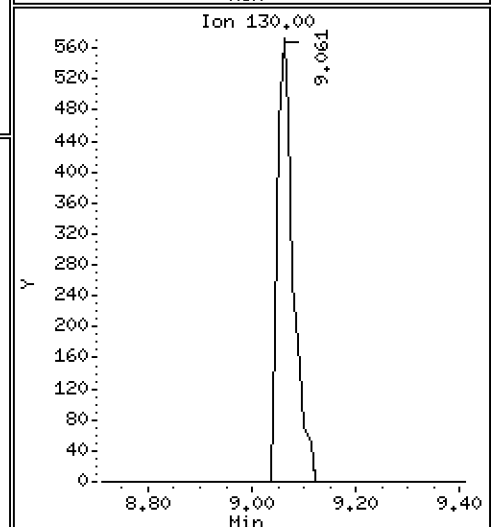
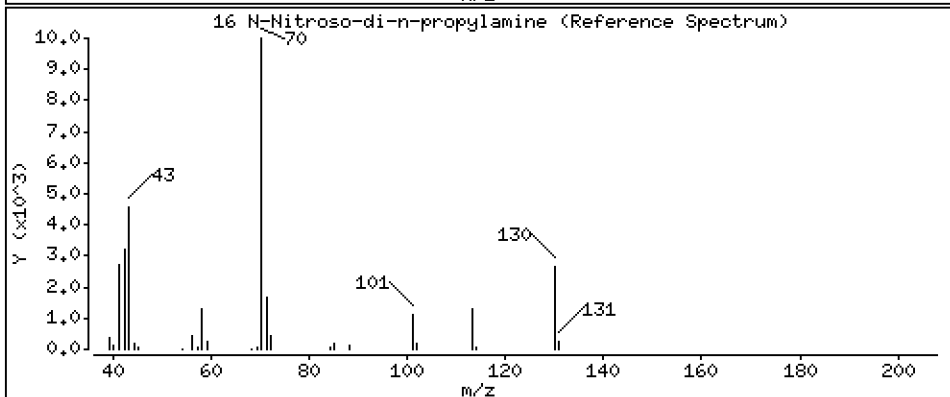
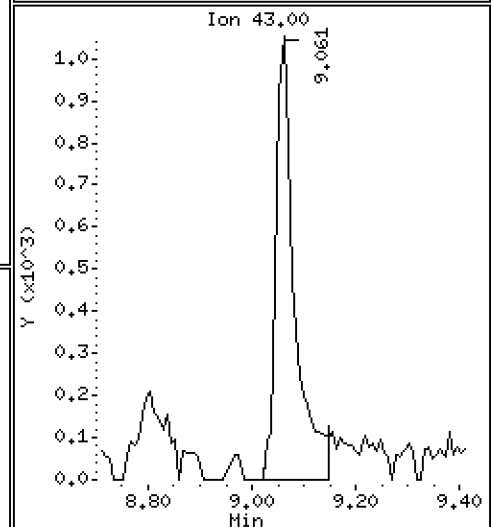
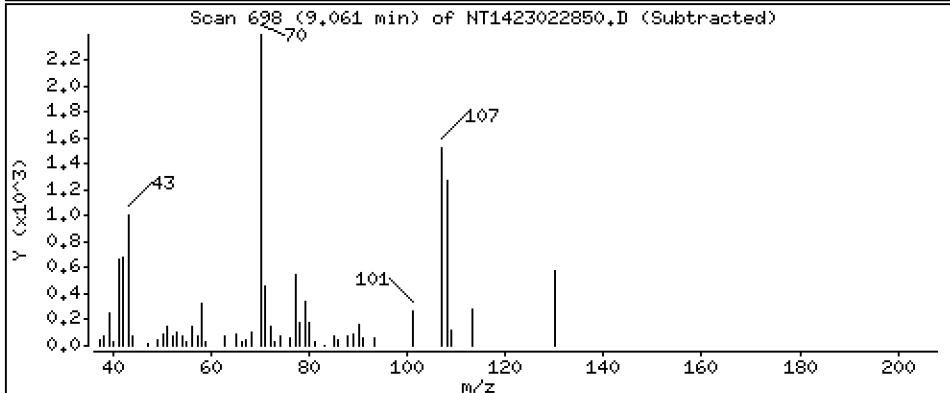
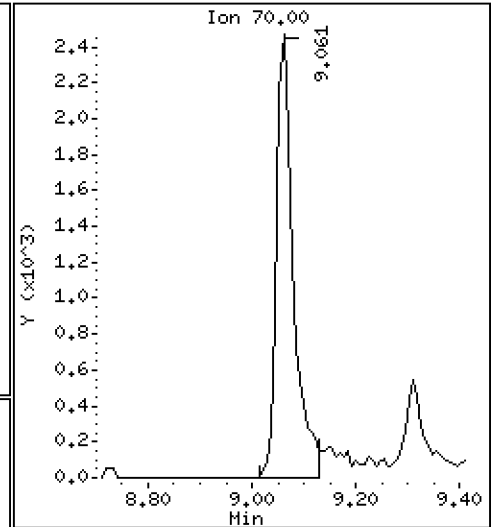
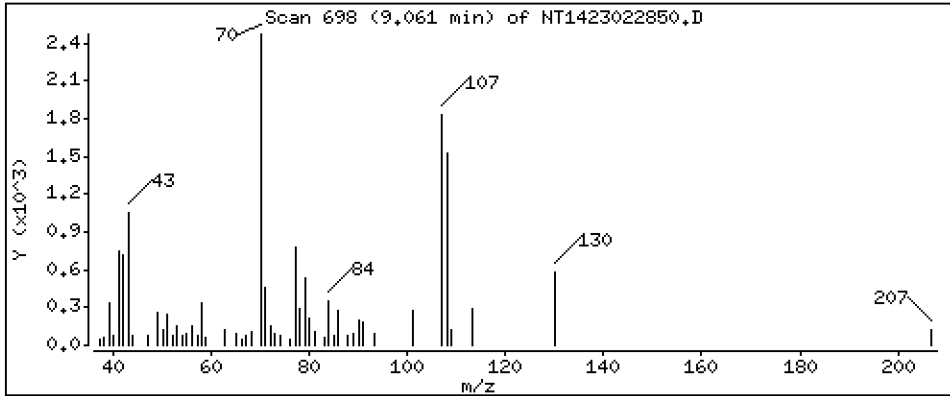
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

16 N-Nitroso-di-n-propylamine

Concentration: 0.2121 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

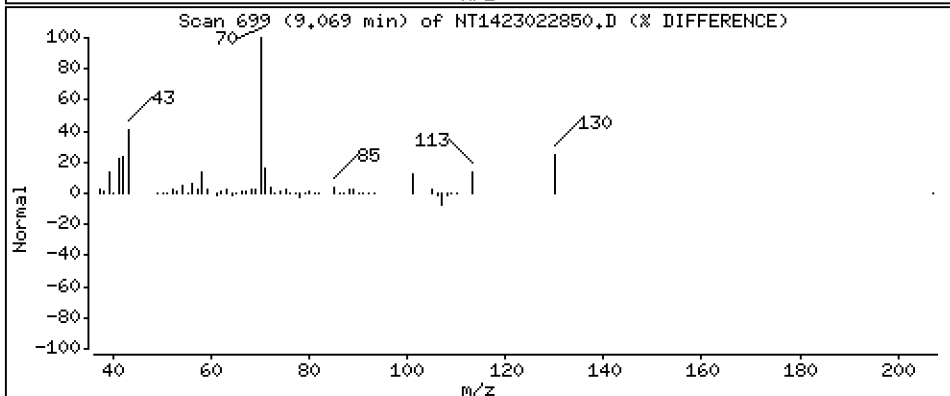
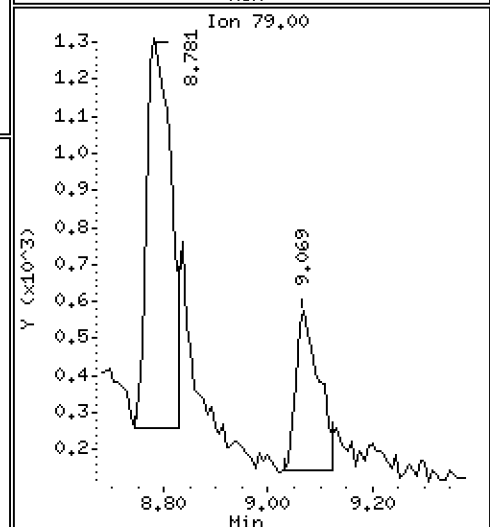
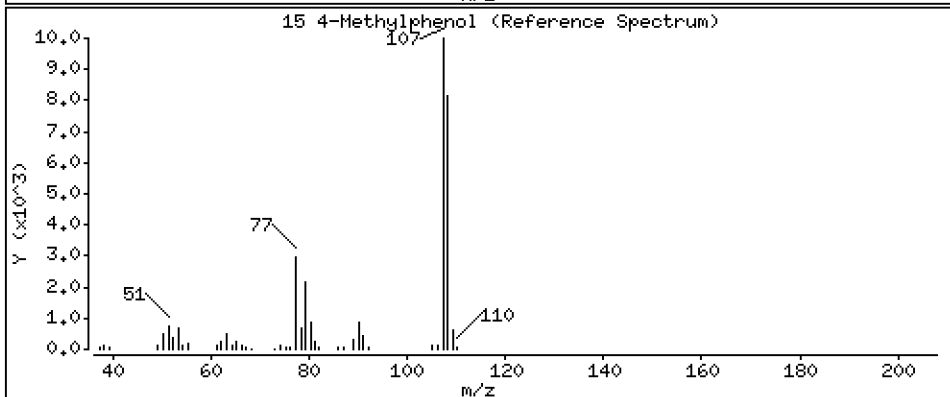
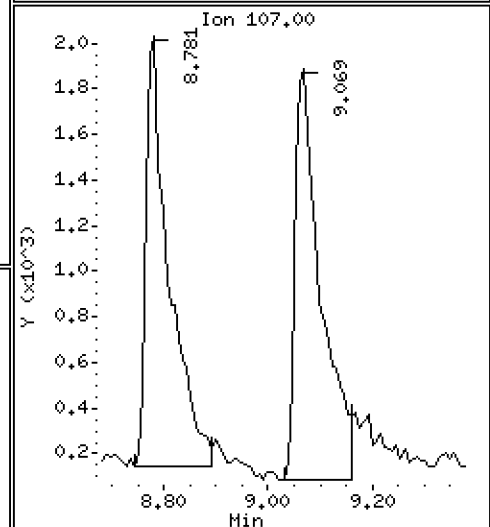
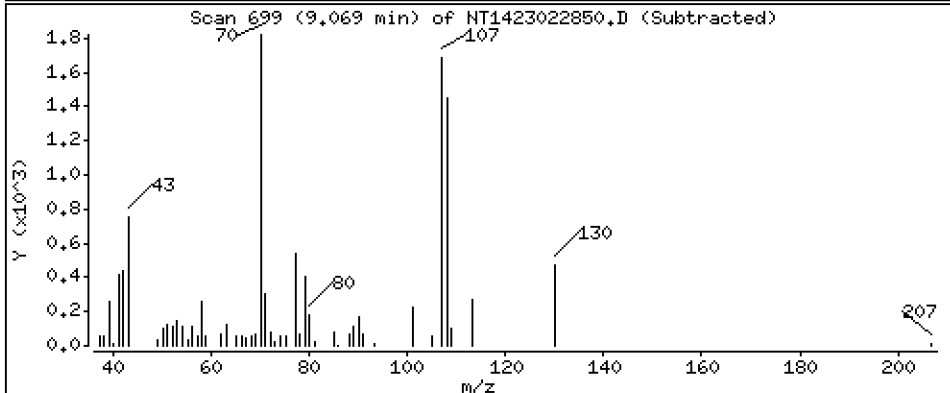
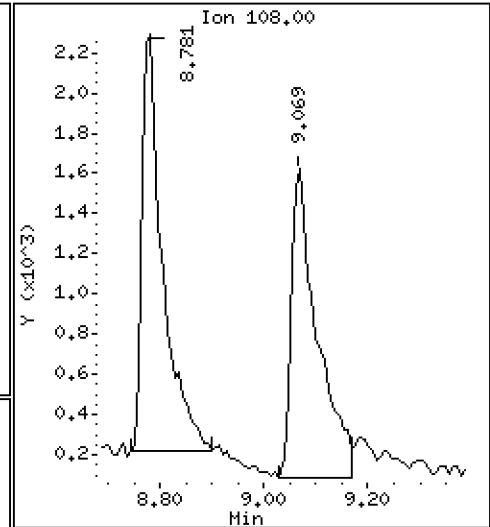
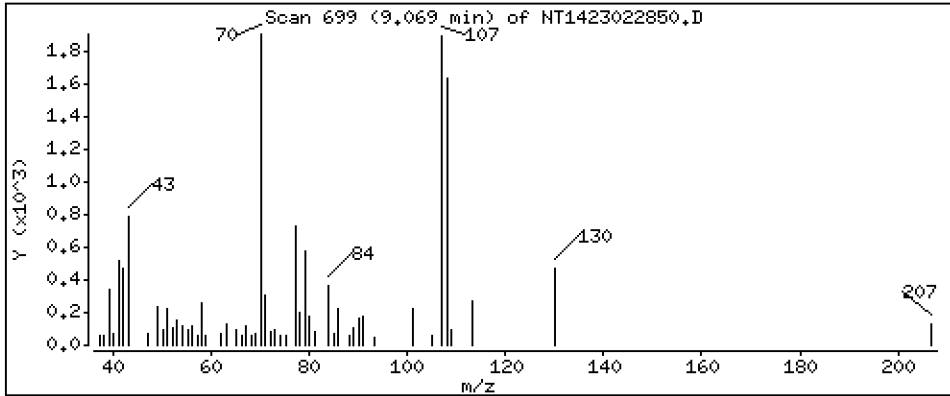
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 0.1399 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

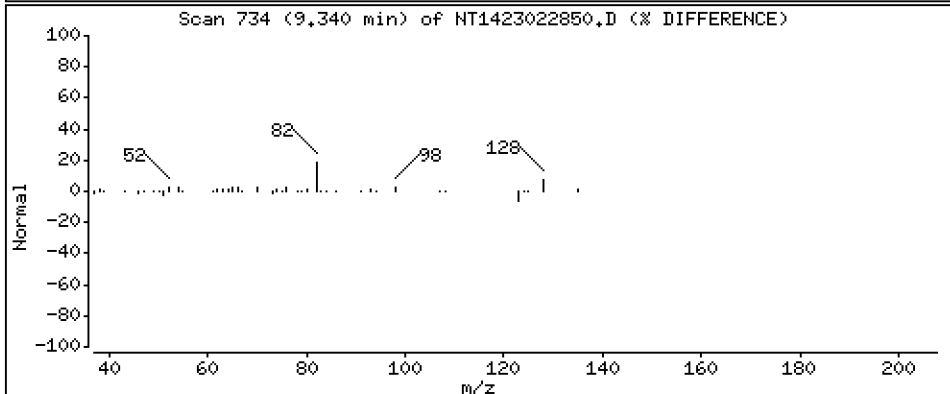
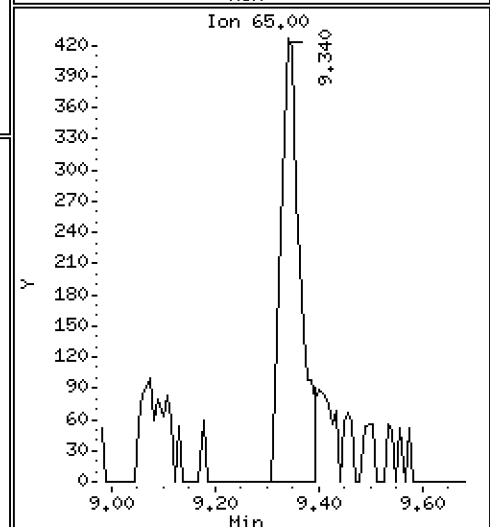
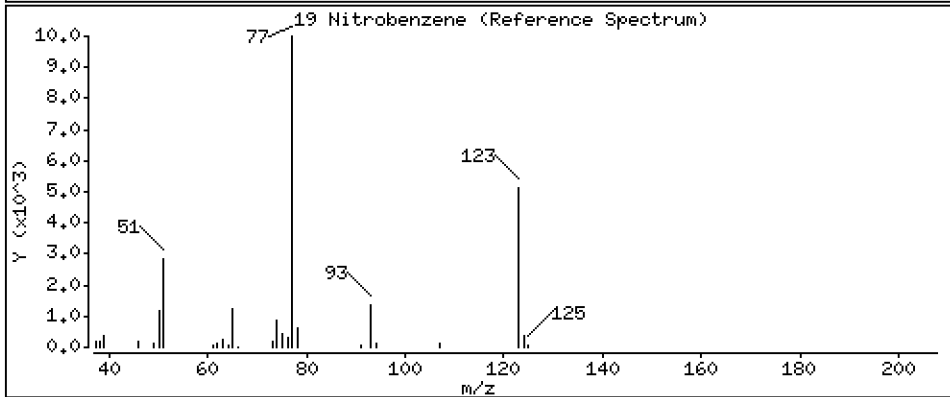
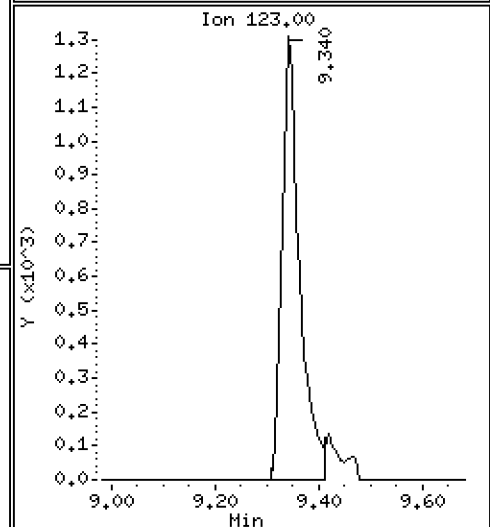
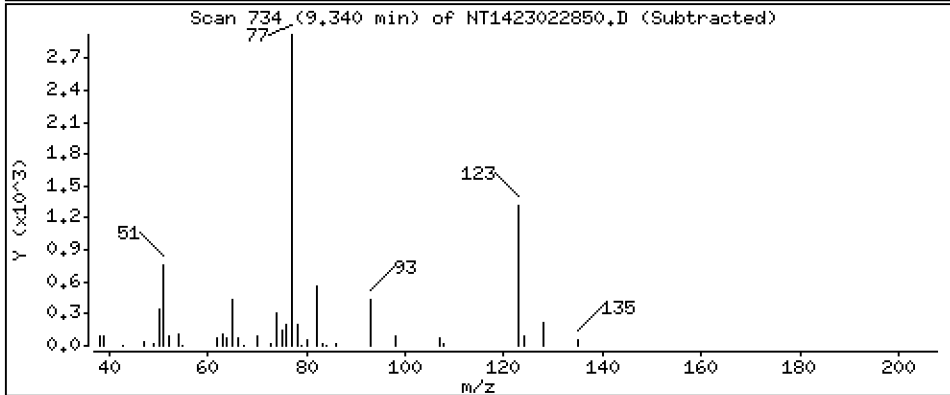
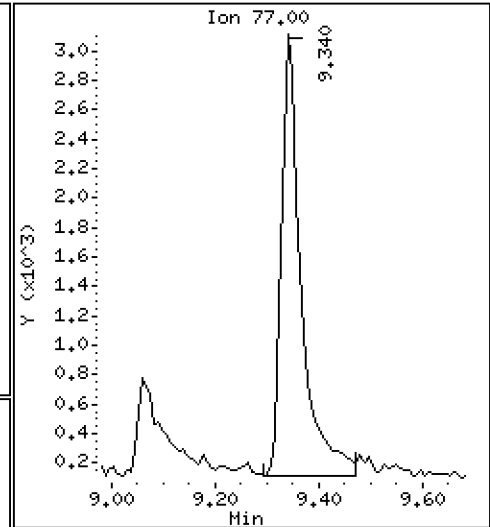
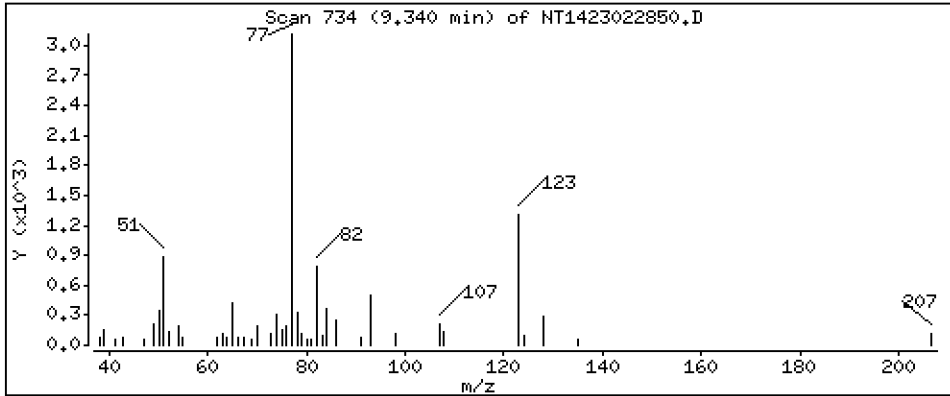
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

19 Nitrobenzene

Concentration: 0,2048 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

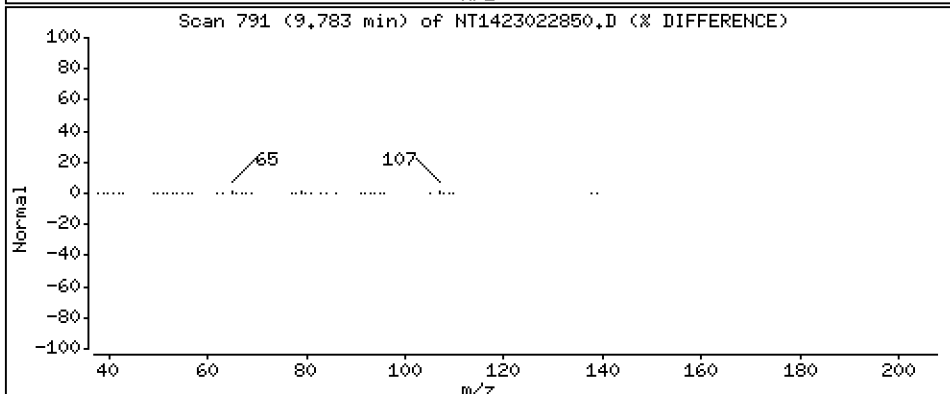
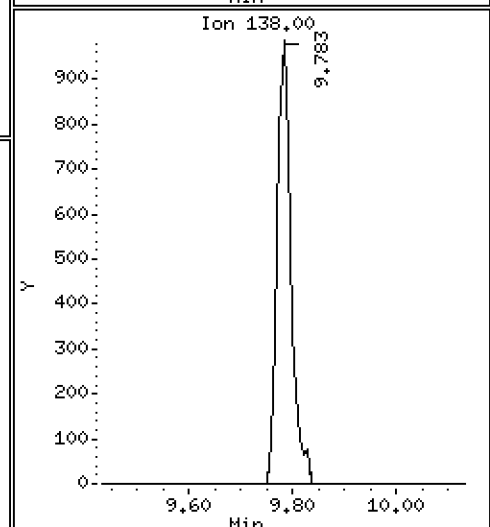
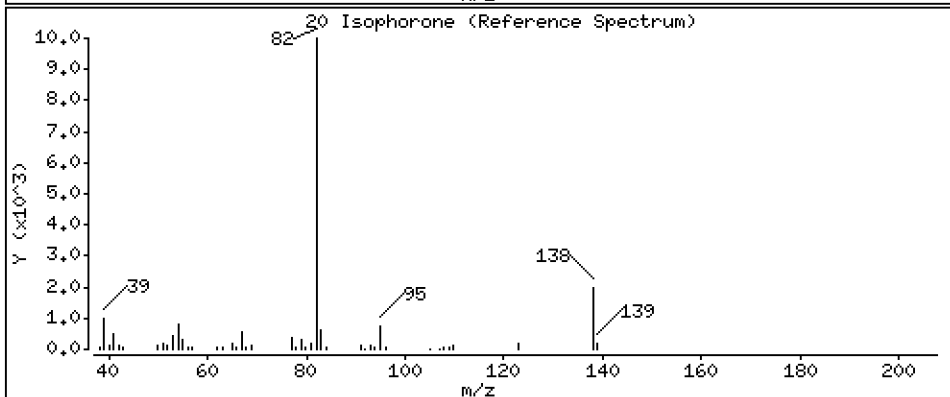
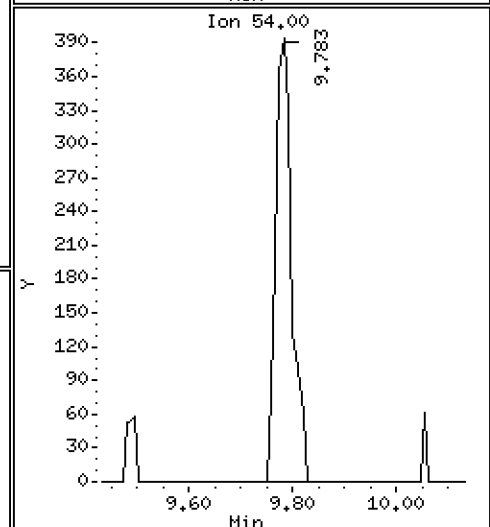
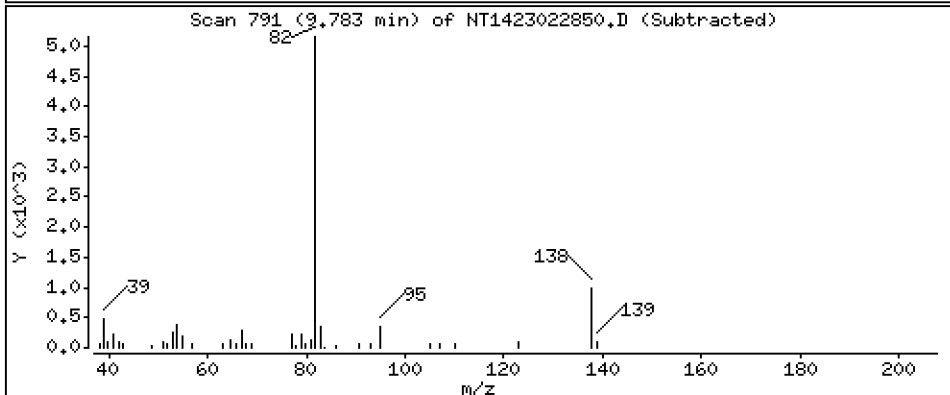
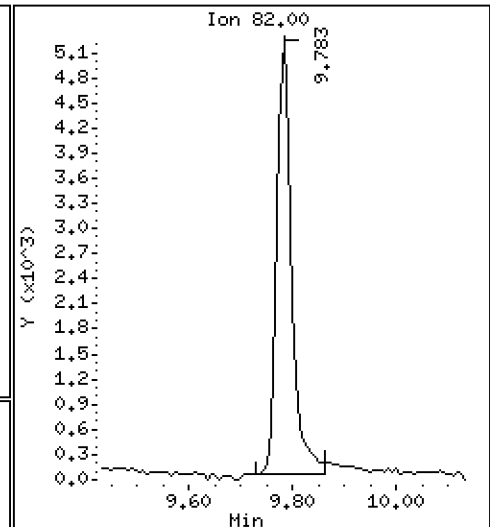
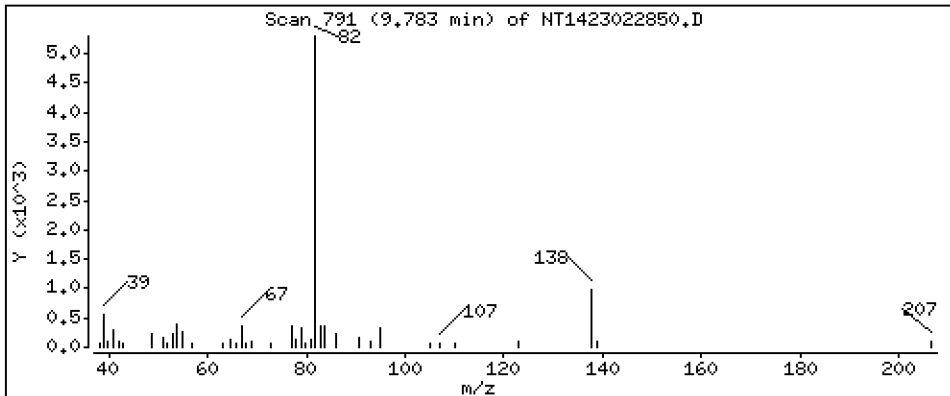
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

20 Isophorone

Concentration: 0.1640 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

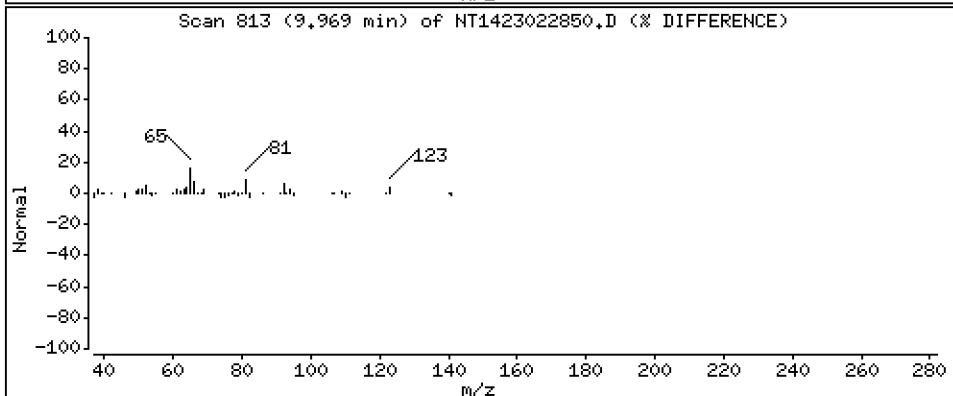
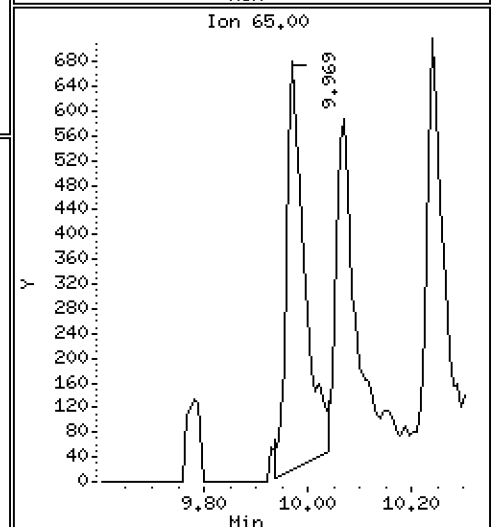
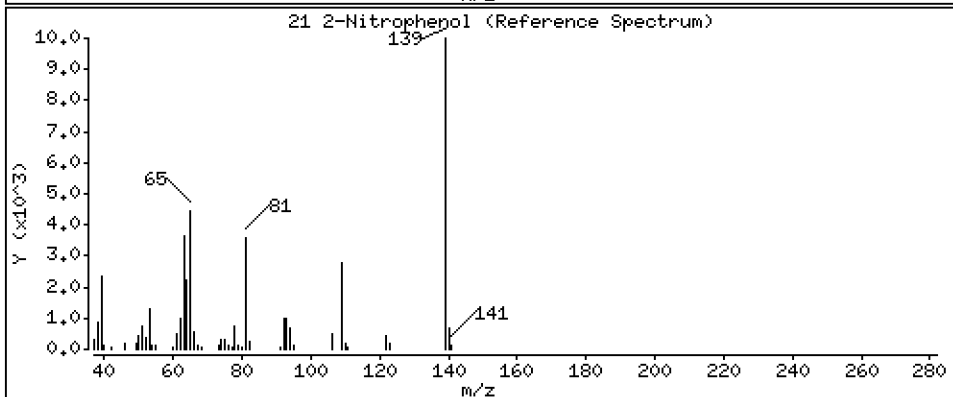
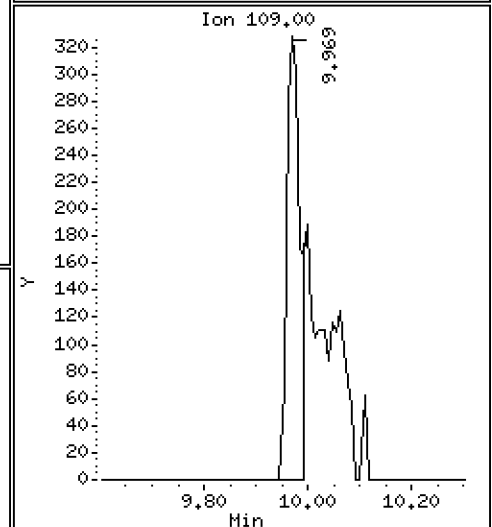
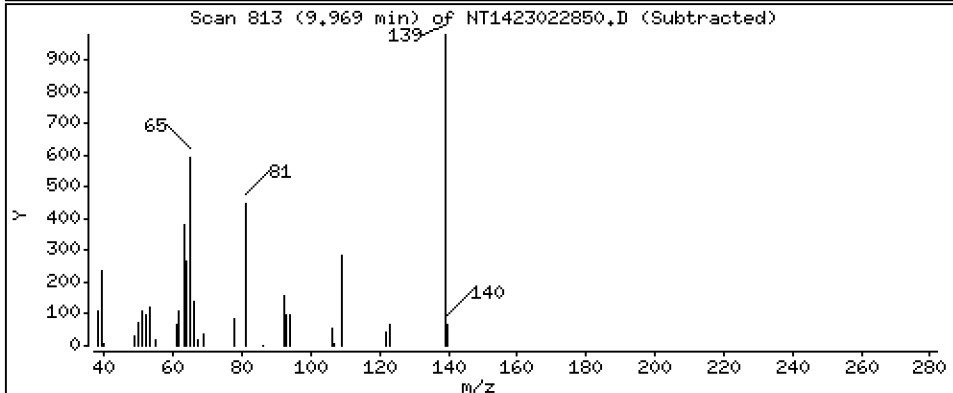
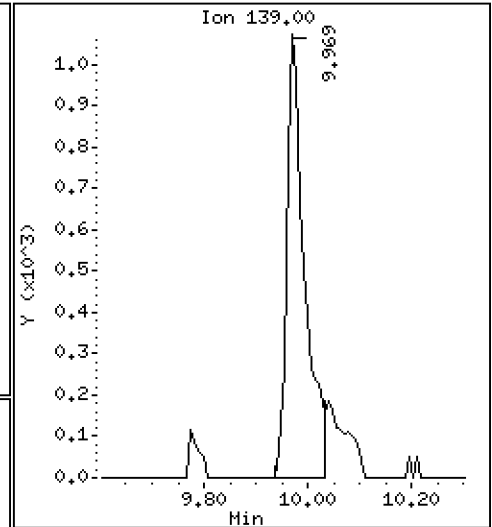
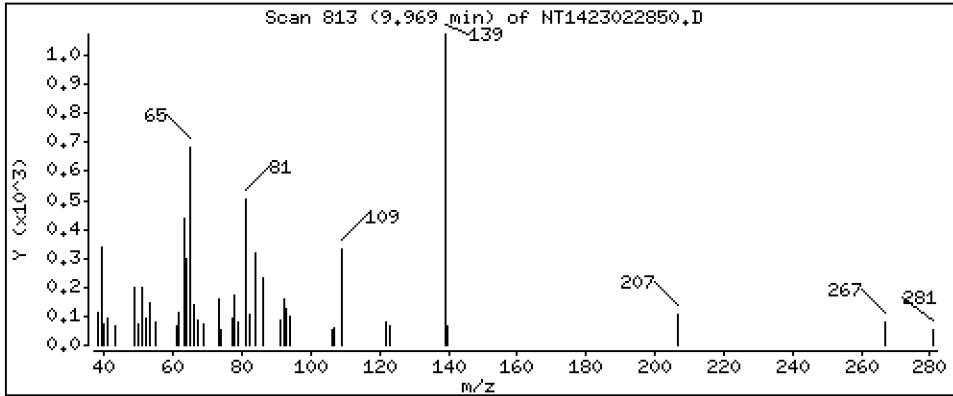
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

21 2-Nitrophenol

Concentration: 0,1308 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

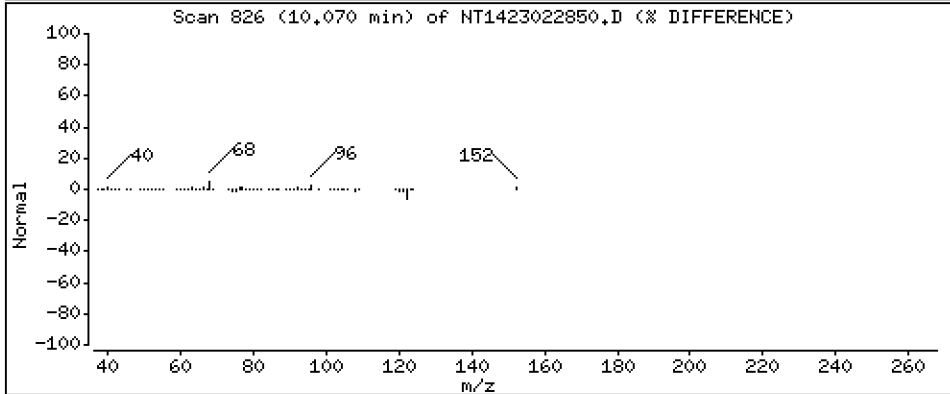
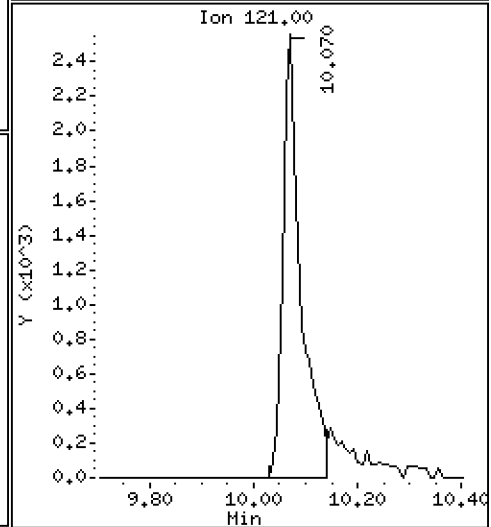
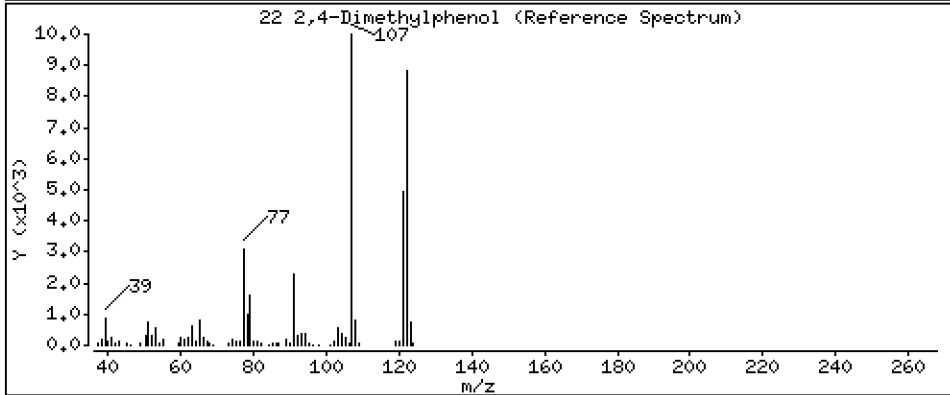
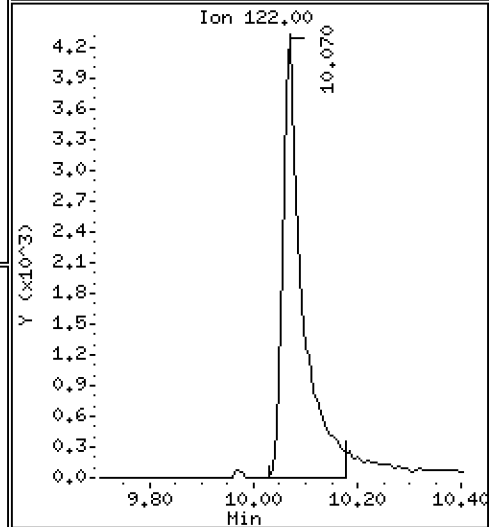
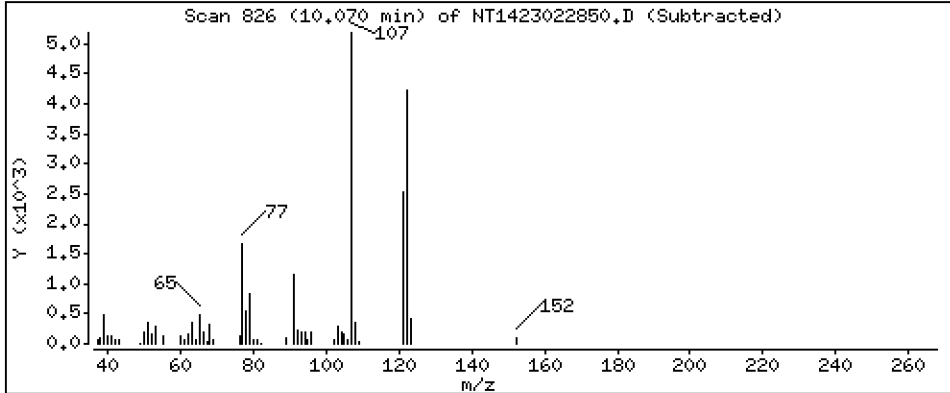
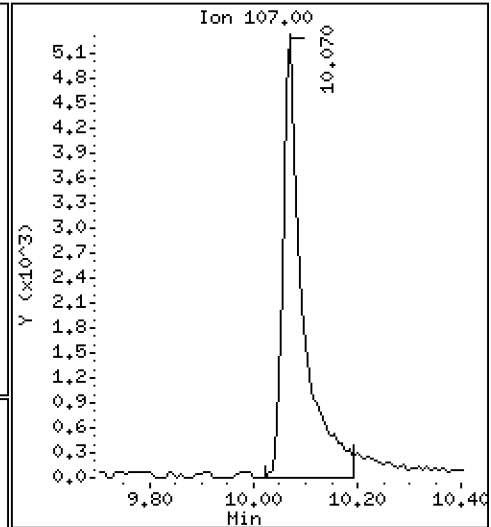
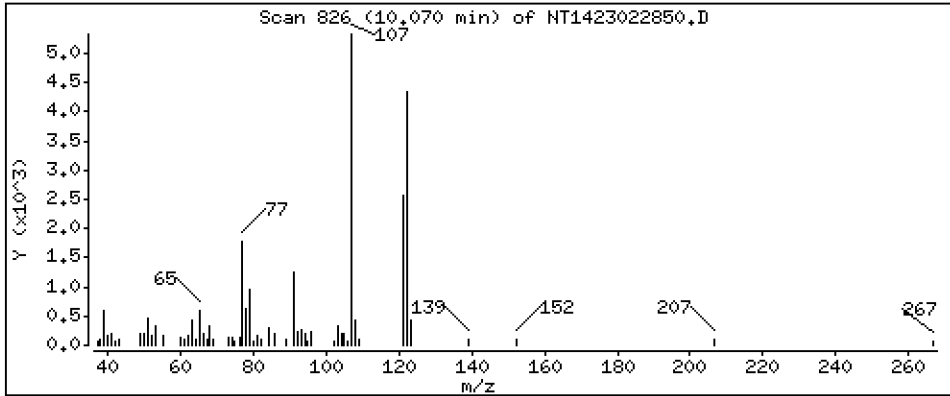
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 0,4067 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

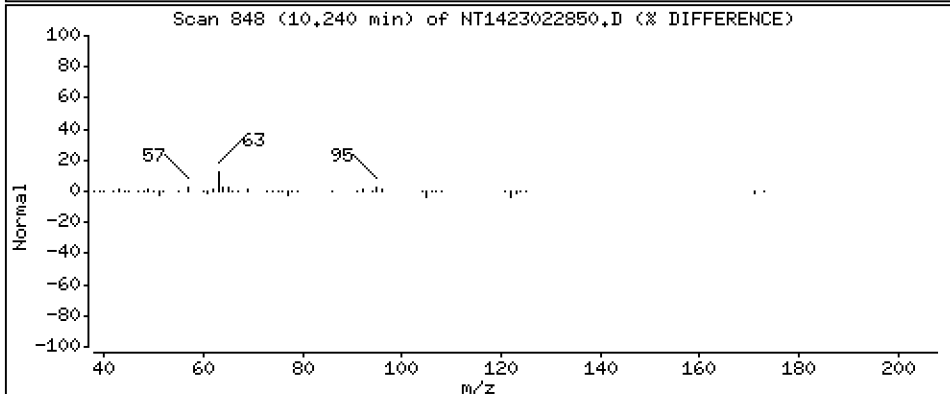
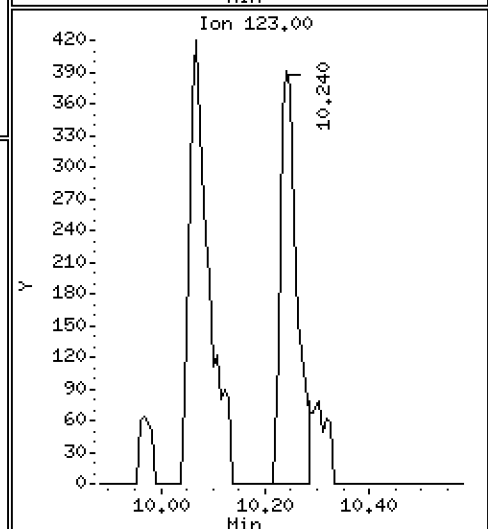
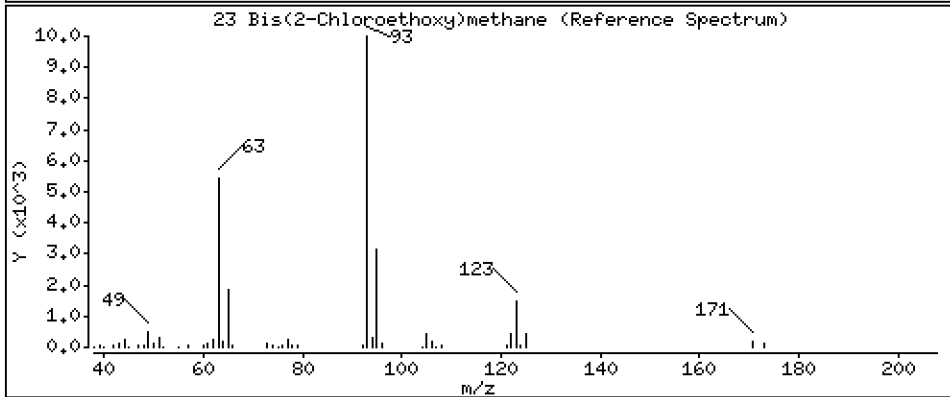
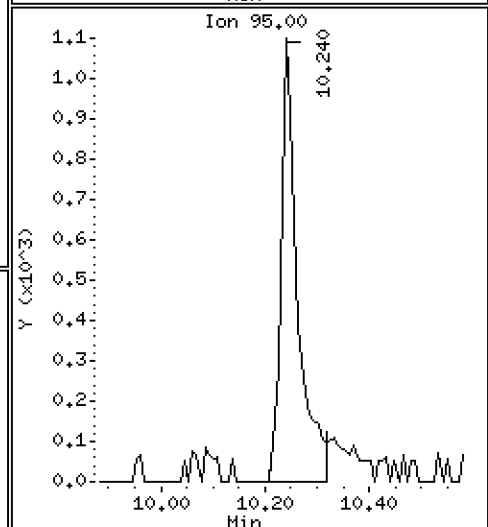
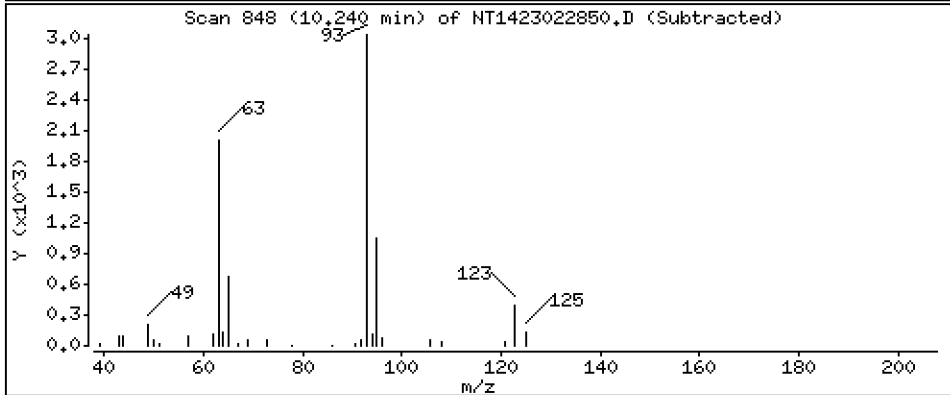
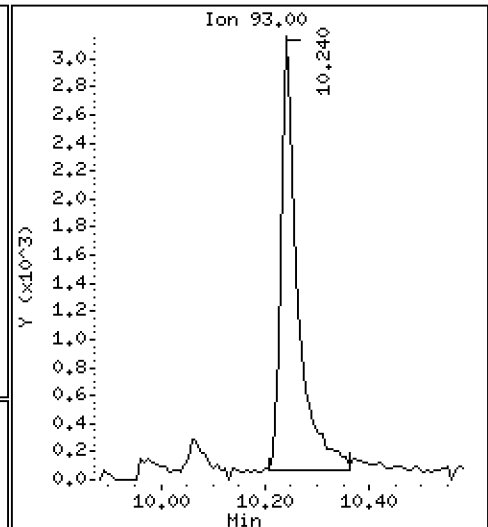
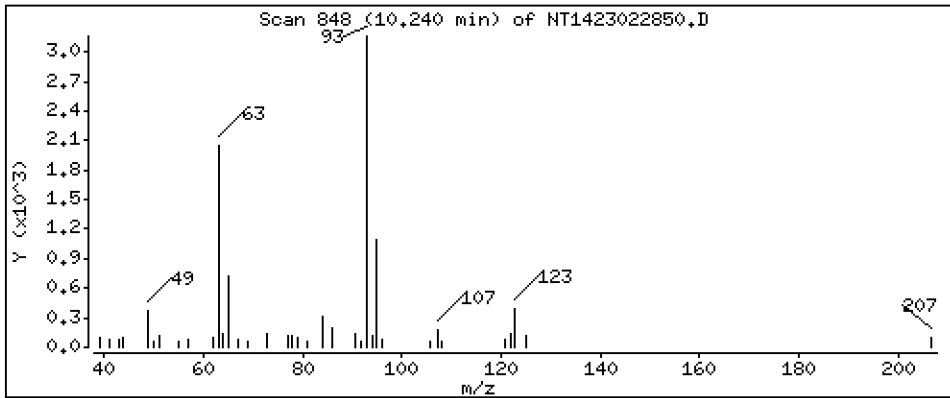
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

23 Bis(2-Chloroethoxy)methane

Concentration: 0,1817 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

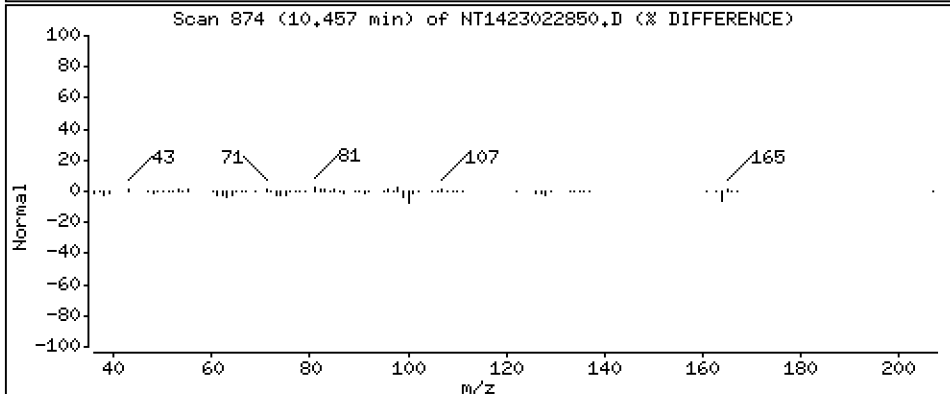
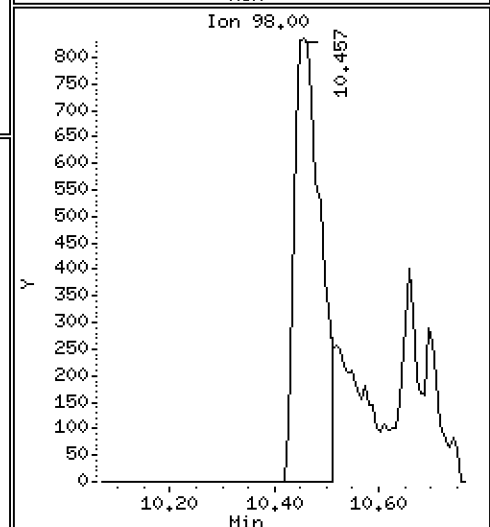
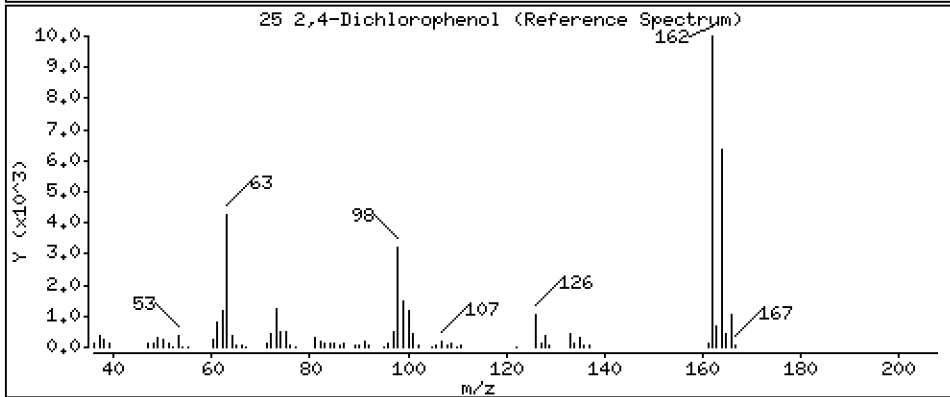
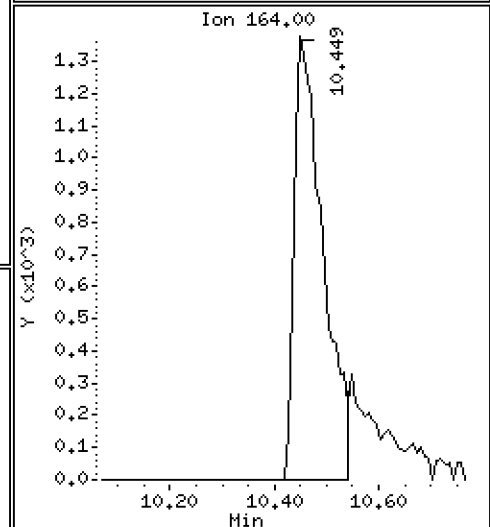
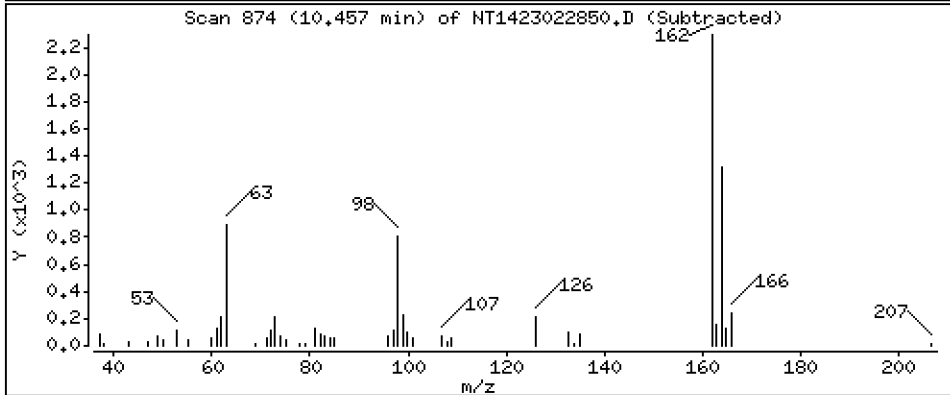
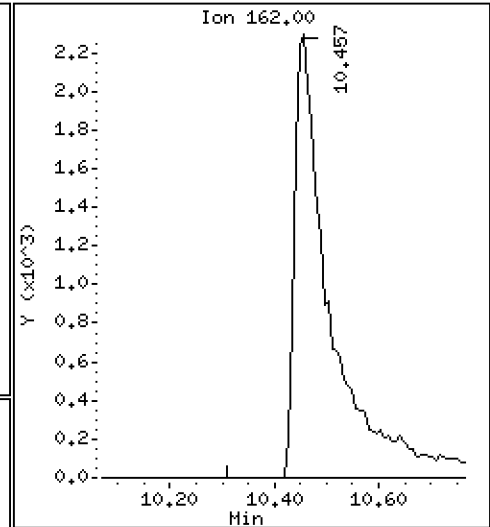
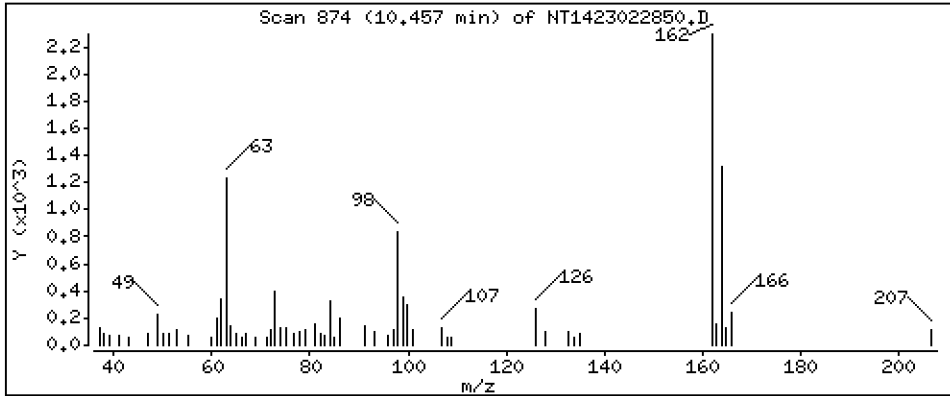
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 0,3293 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

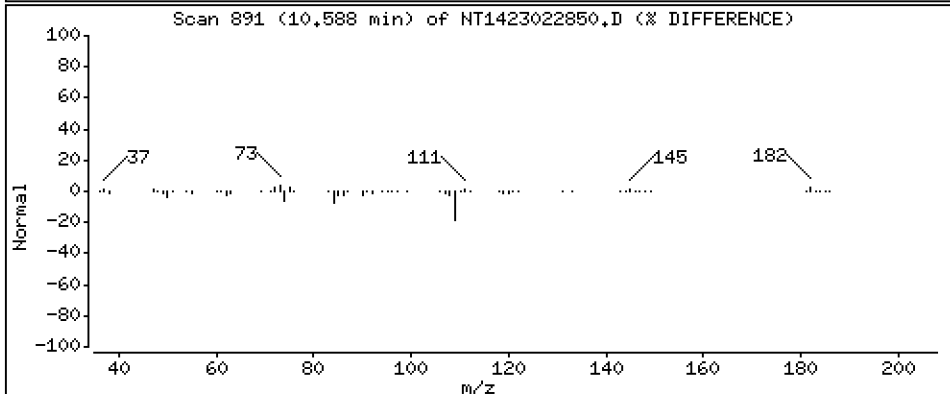
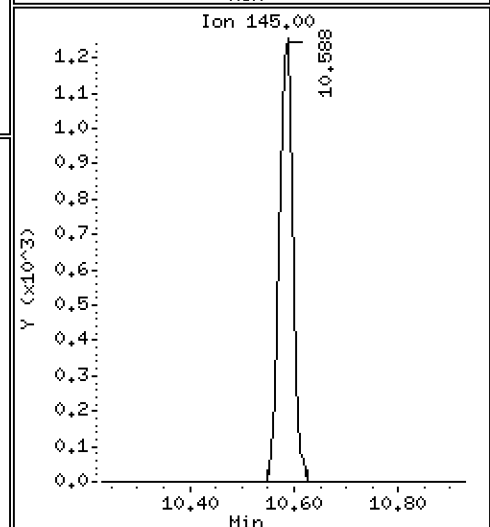
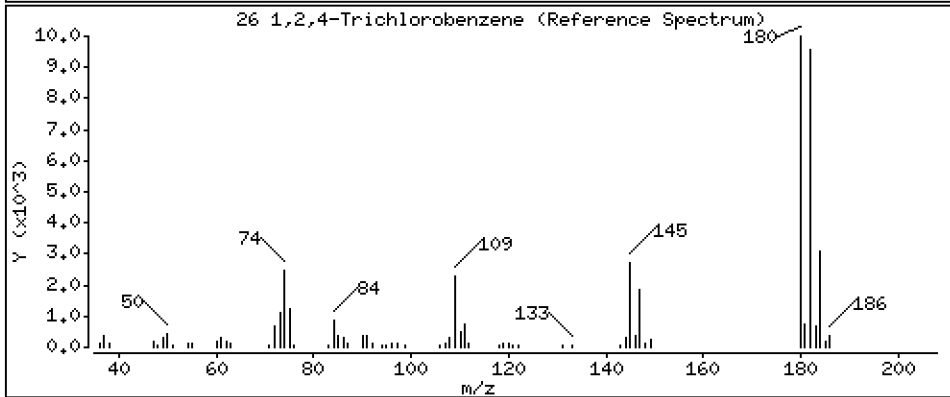
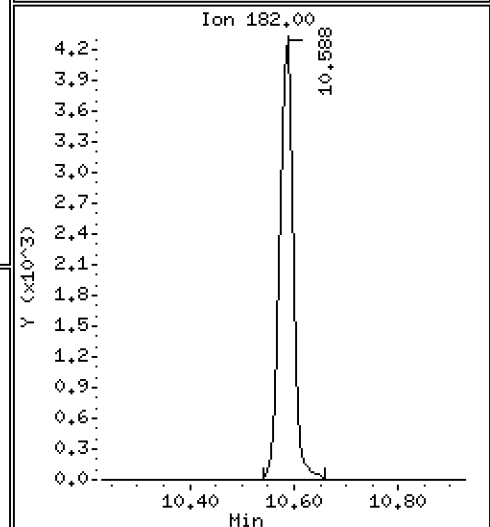
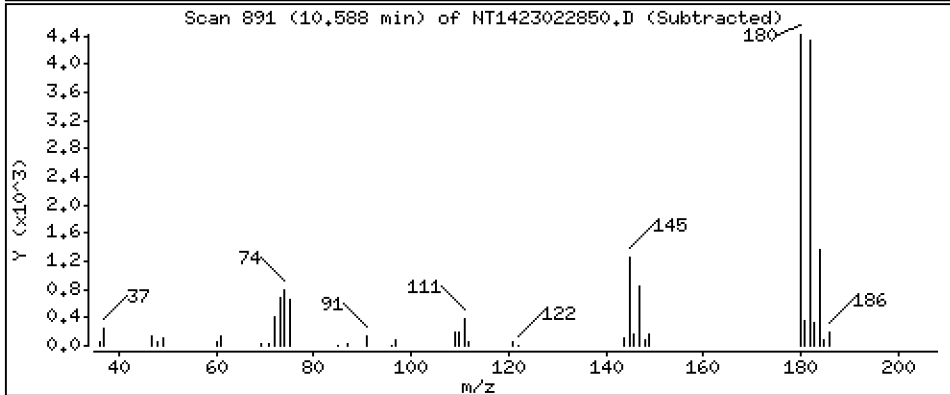
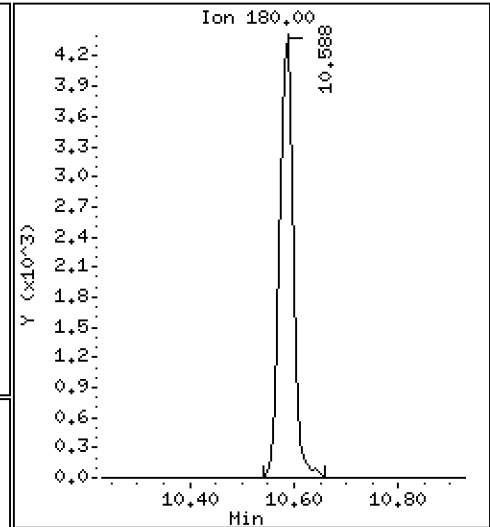
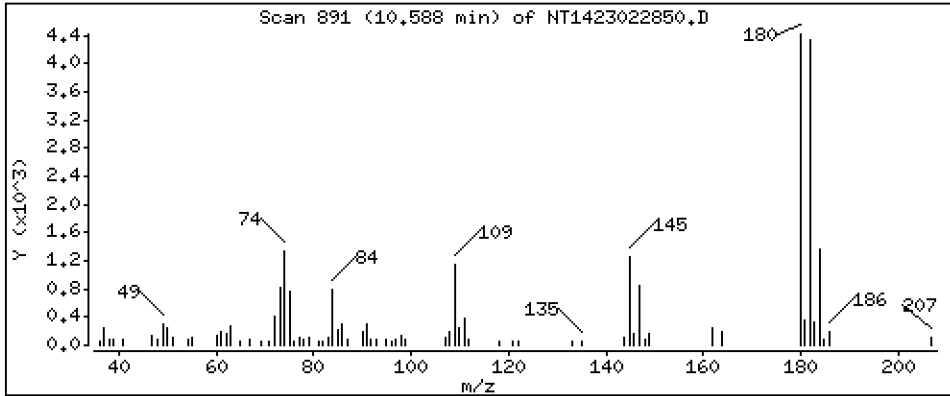
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 0,1955 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

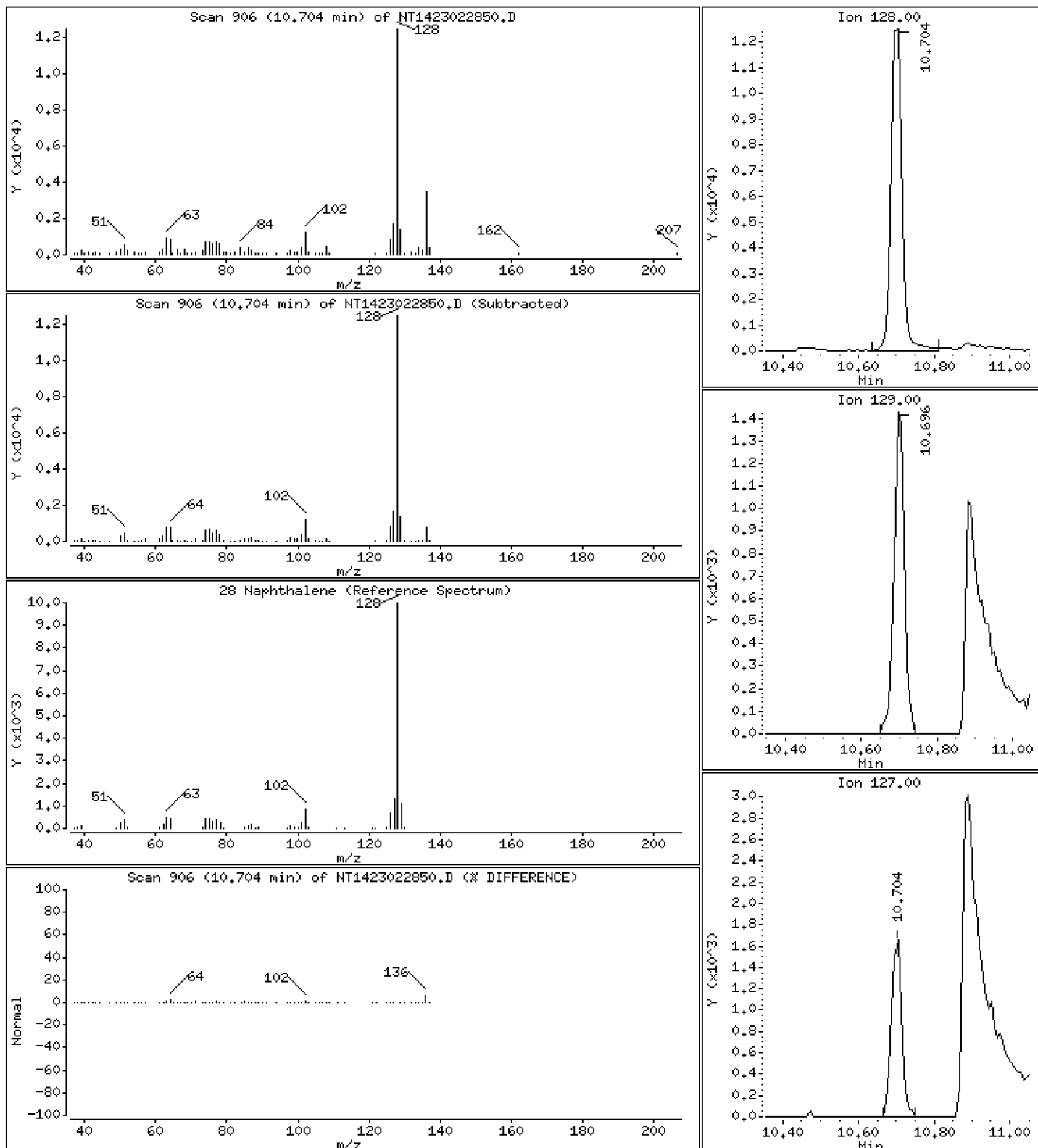
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 0,2182 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

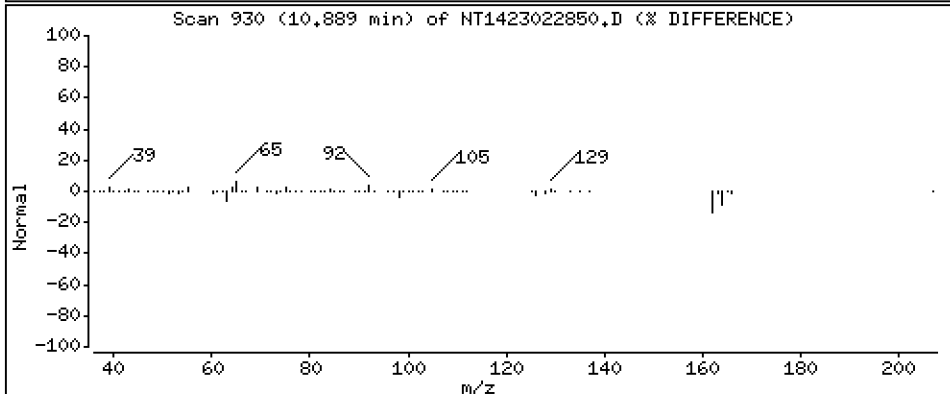
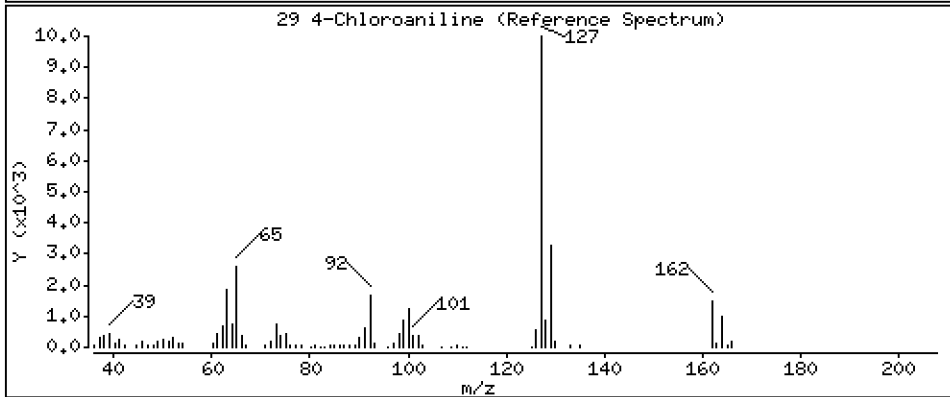
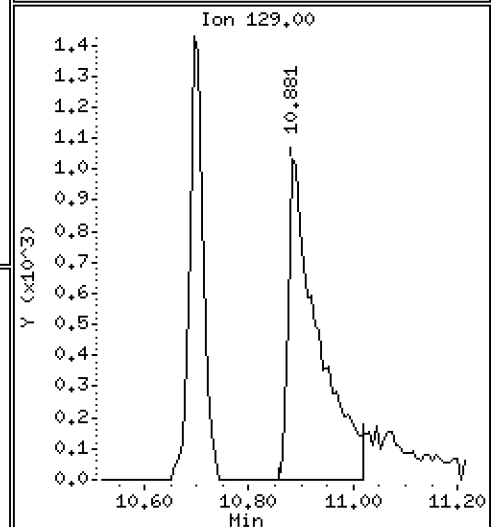
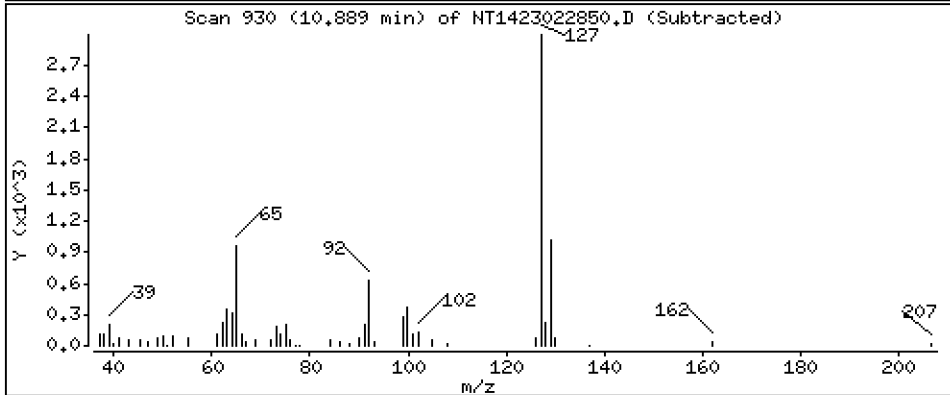
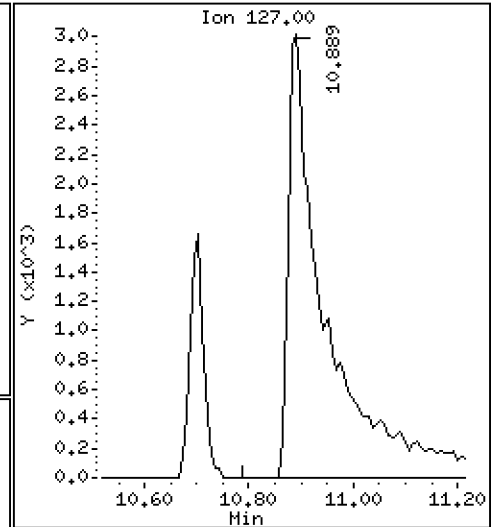
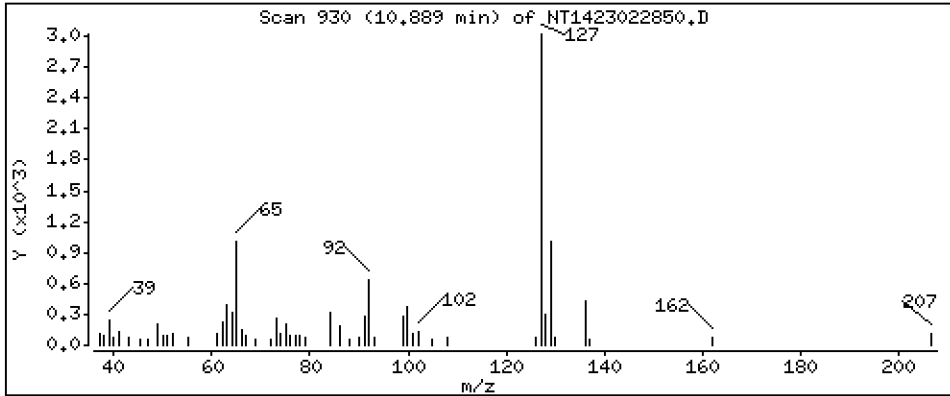
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

29 4-Chloroaniline

Concentration: 0,3426 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

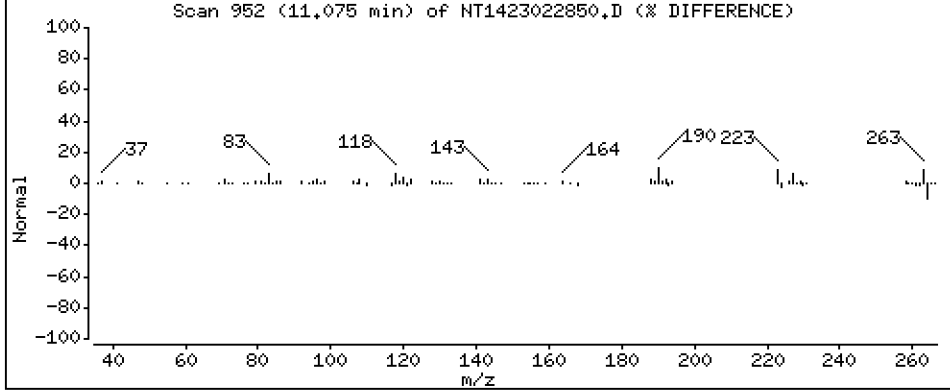
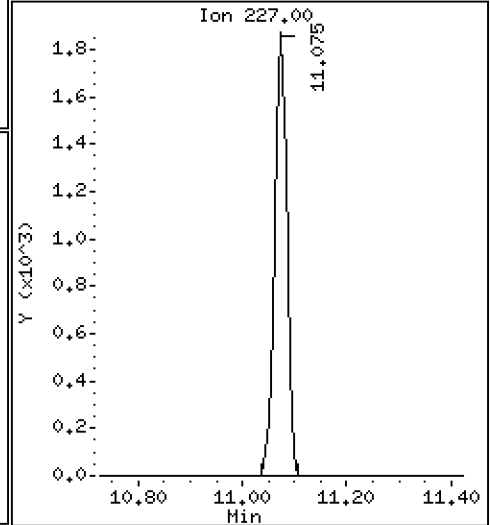
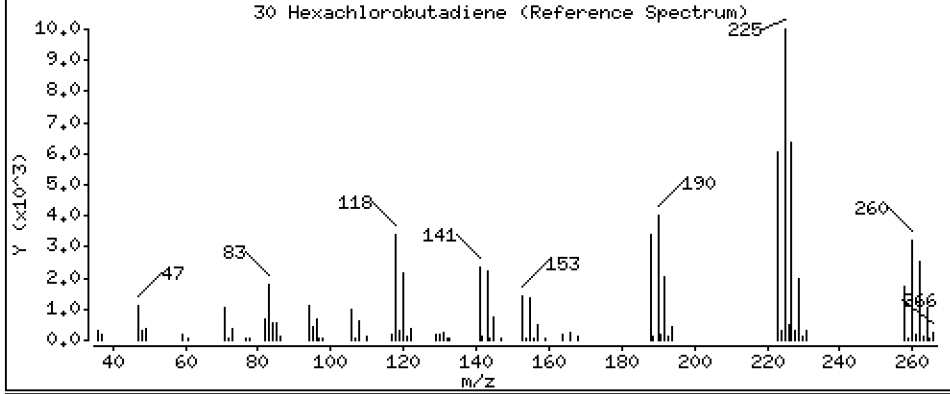
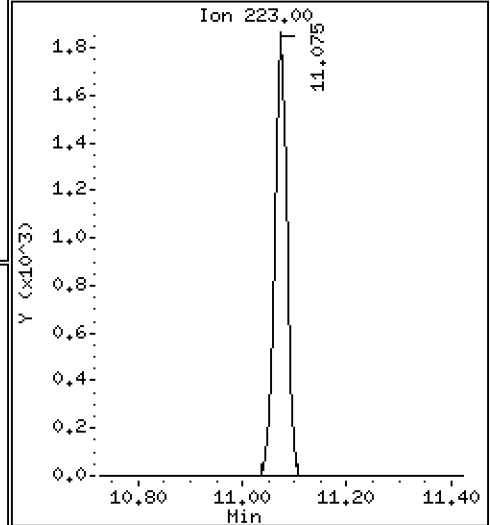
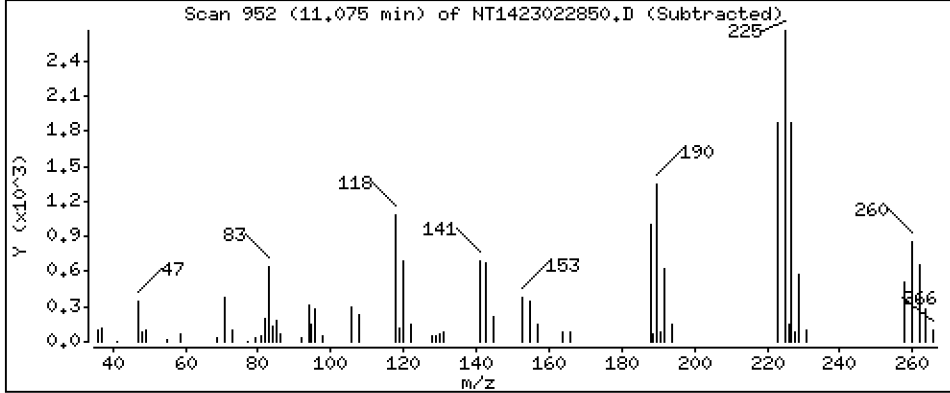
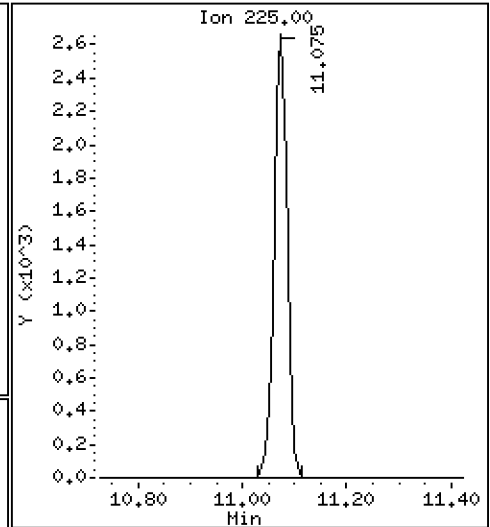
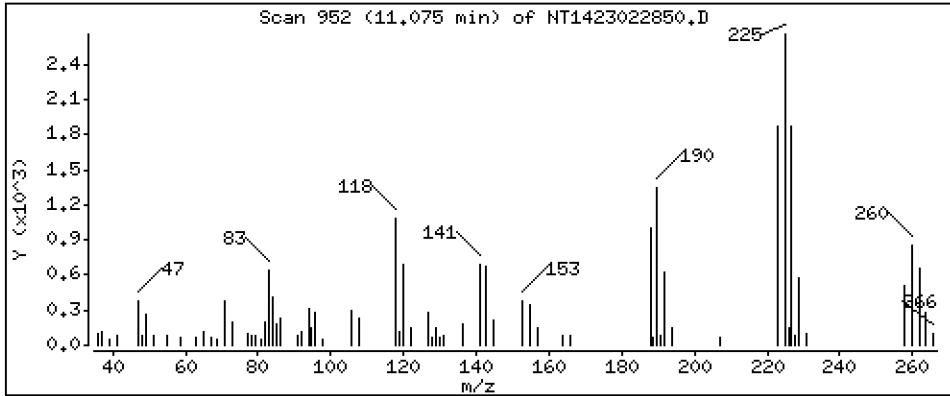
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 0,1812 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

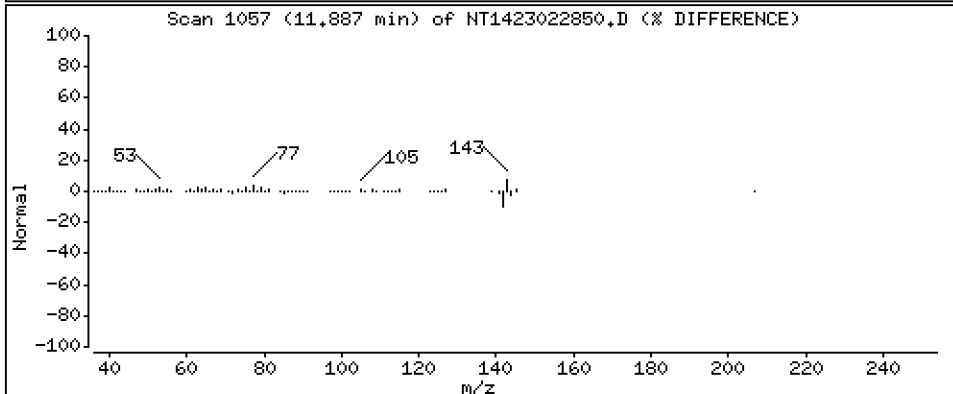
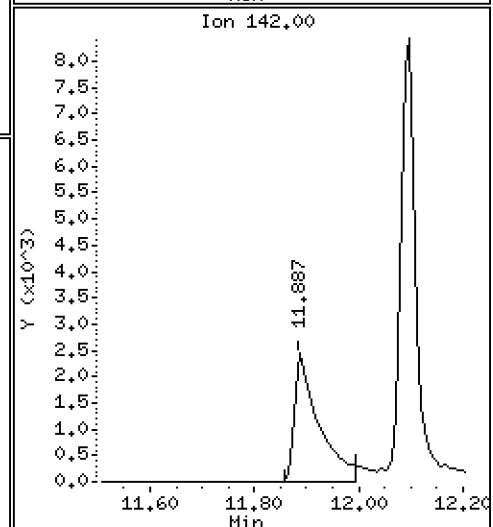
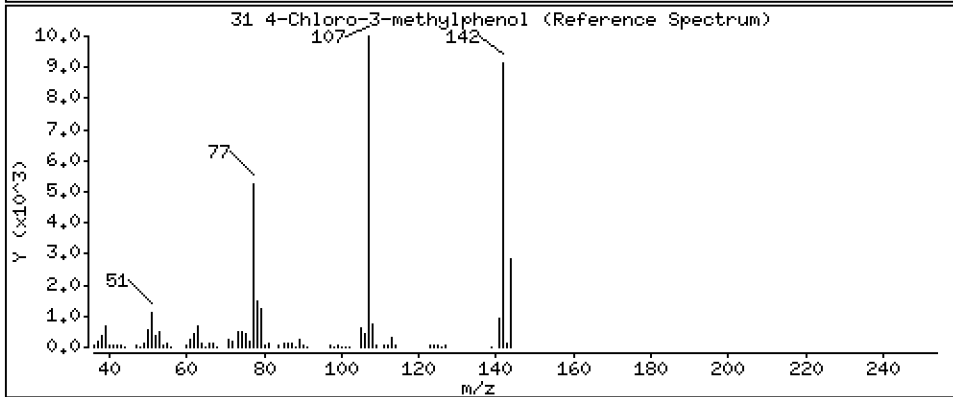
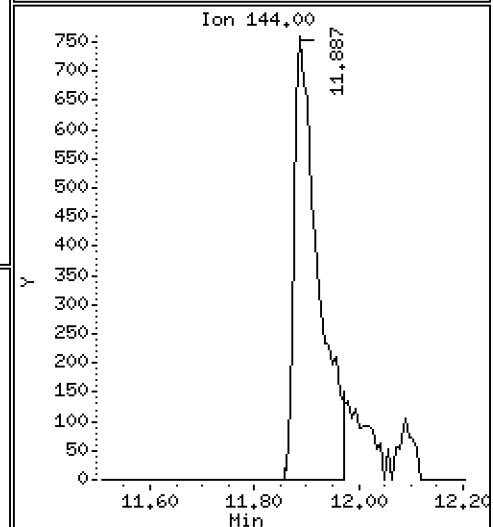
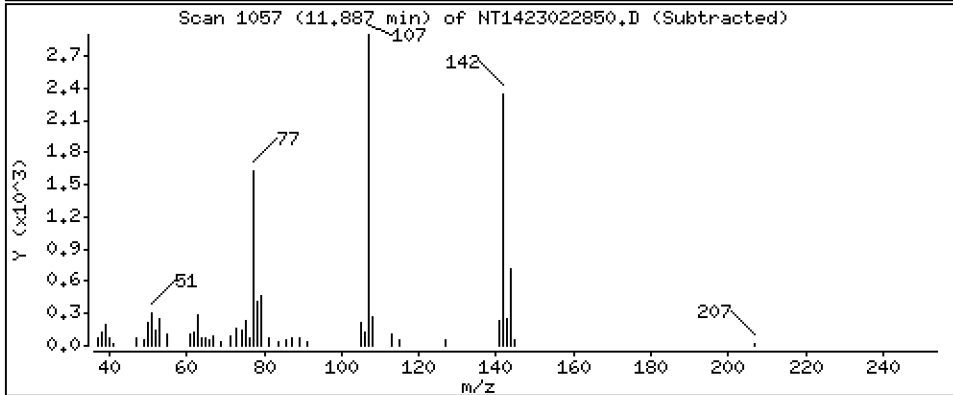
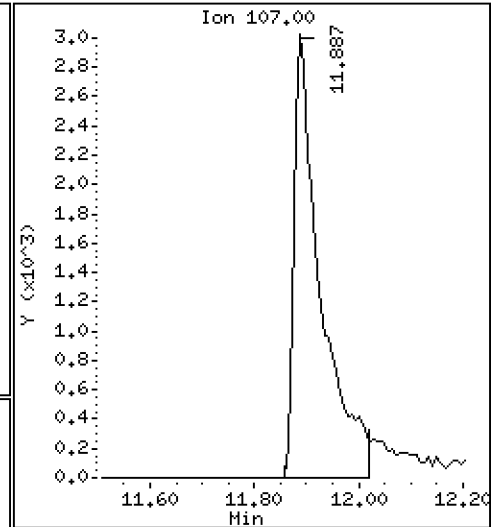
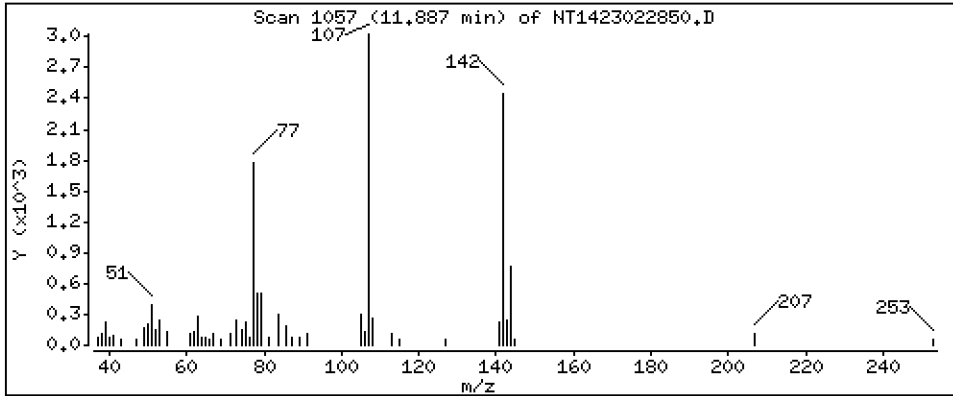
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

31 4-Chloro-3-methylphenol

Concentration: 0,3431 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

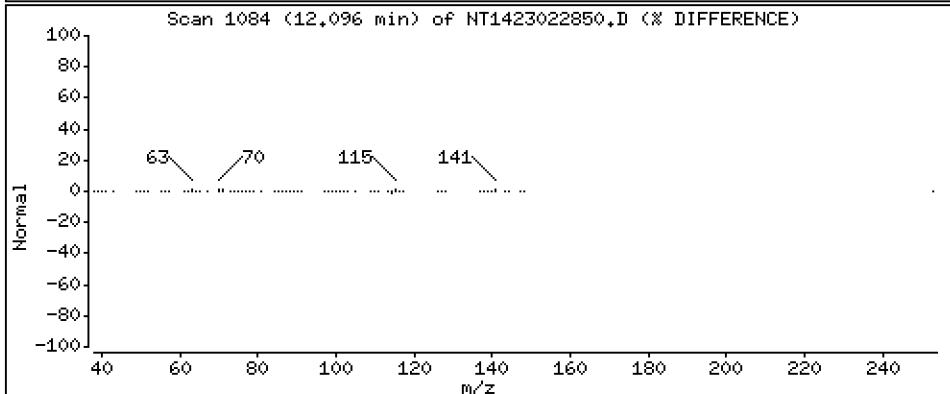
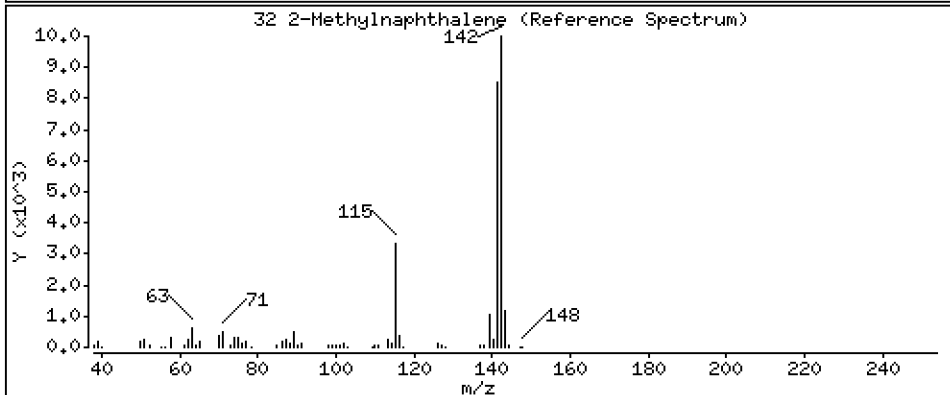
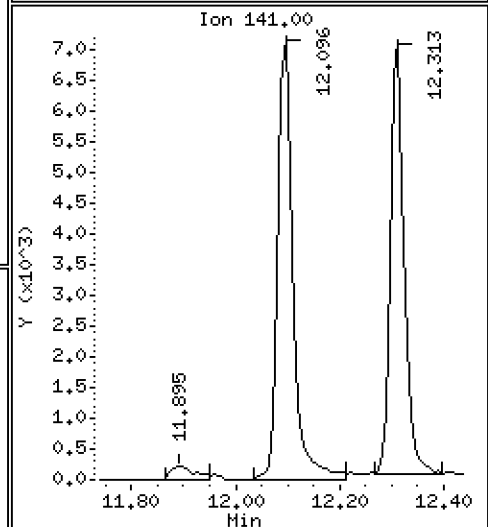
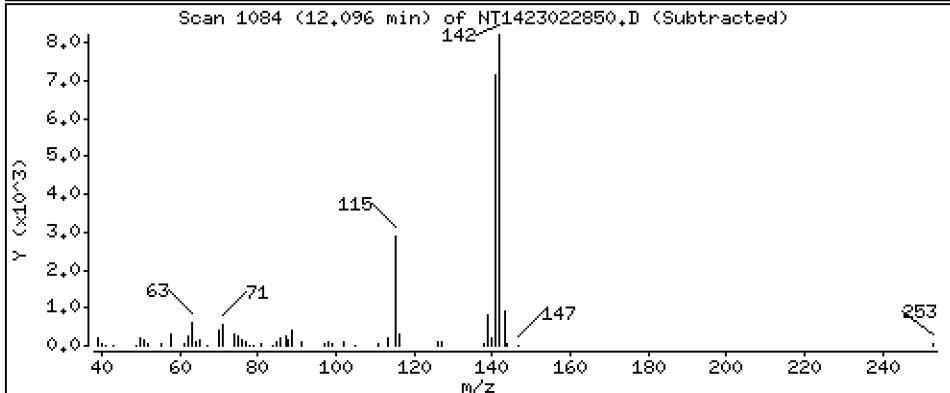
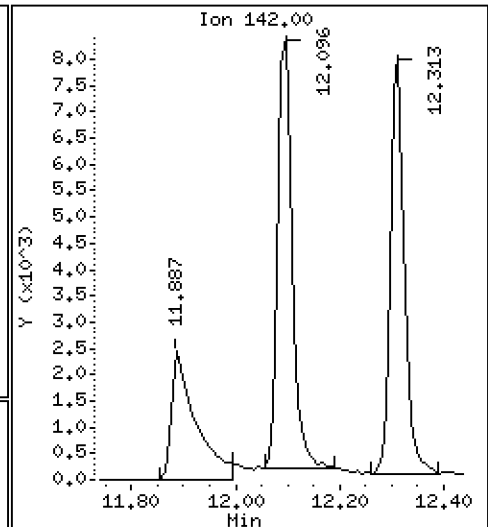
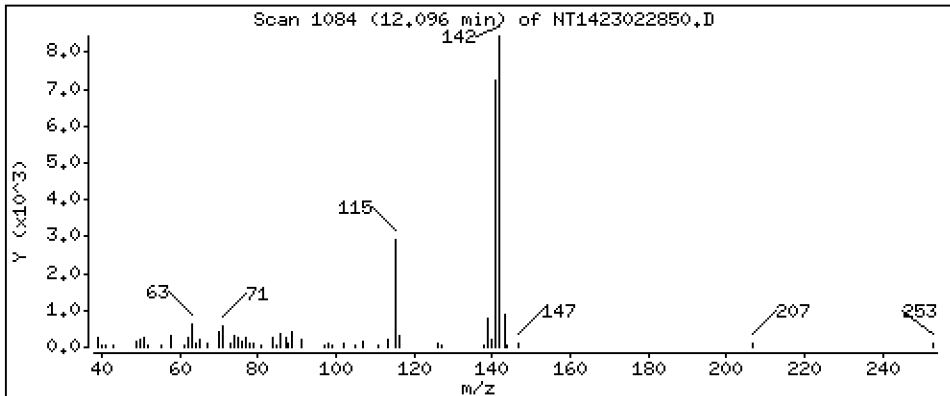
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 0,1846 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

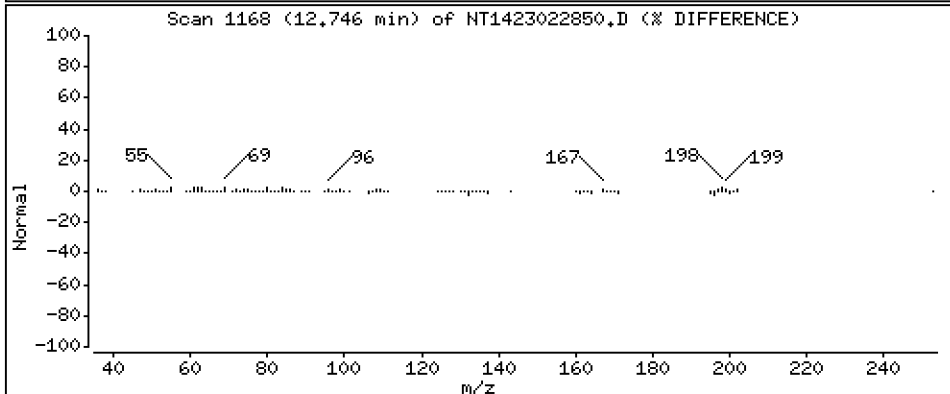
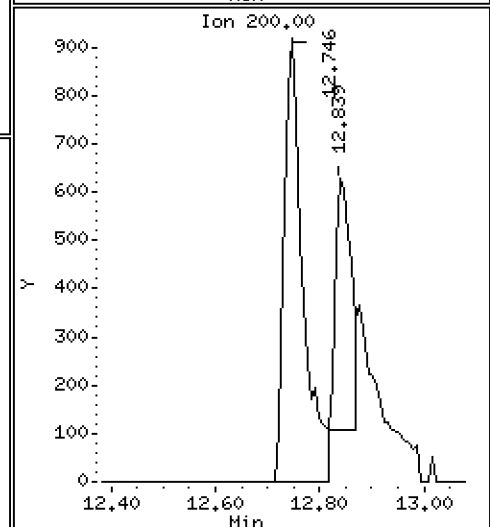
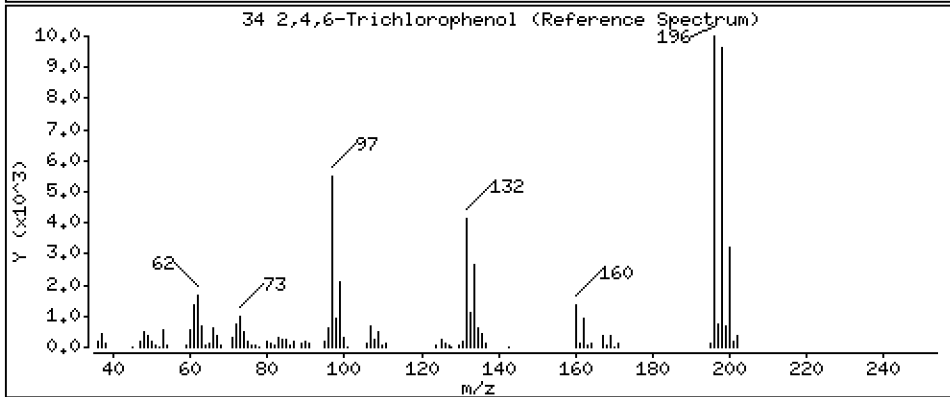
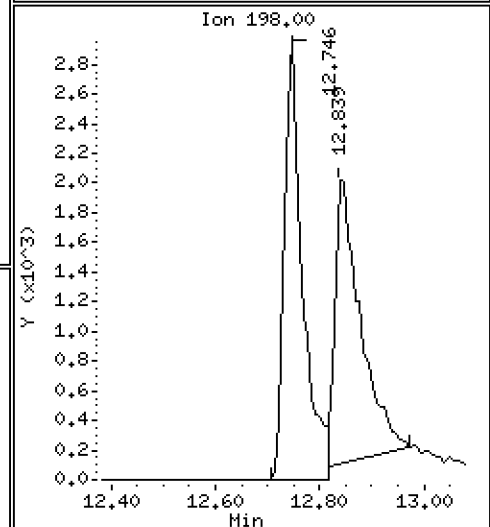
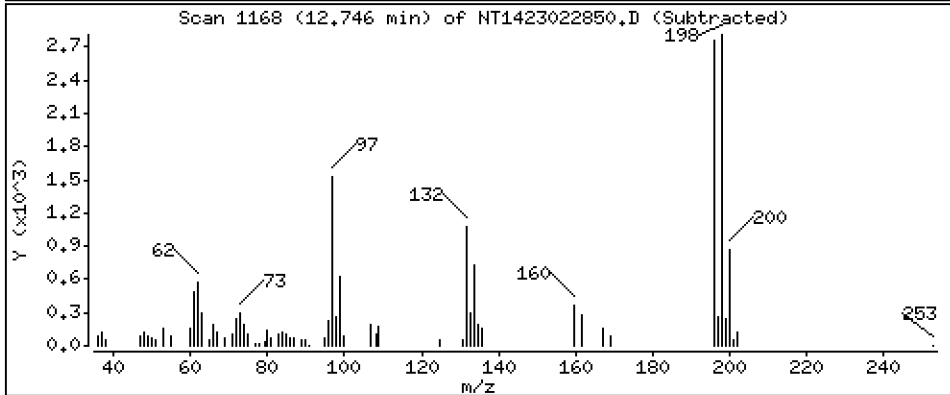
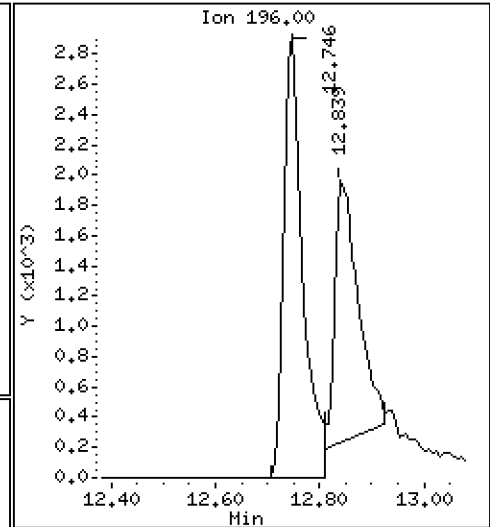
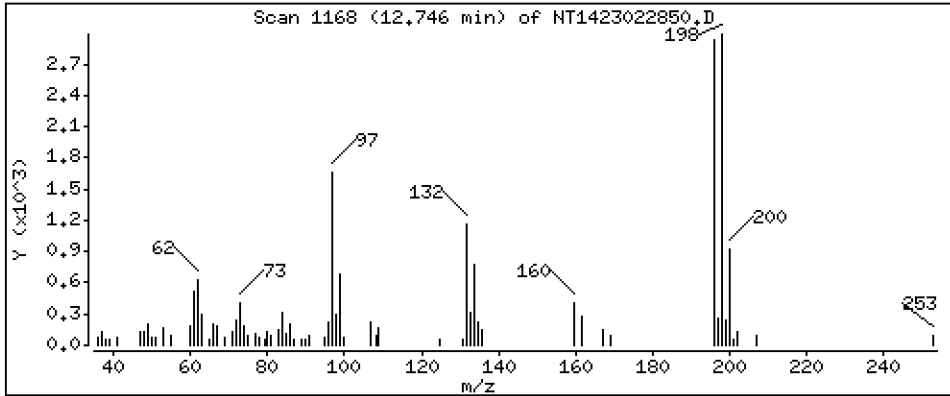
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

34 2,4,6-Trichlorophenol

Concentration: 0.3241 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

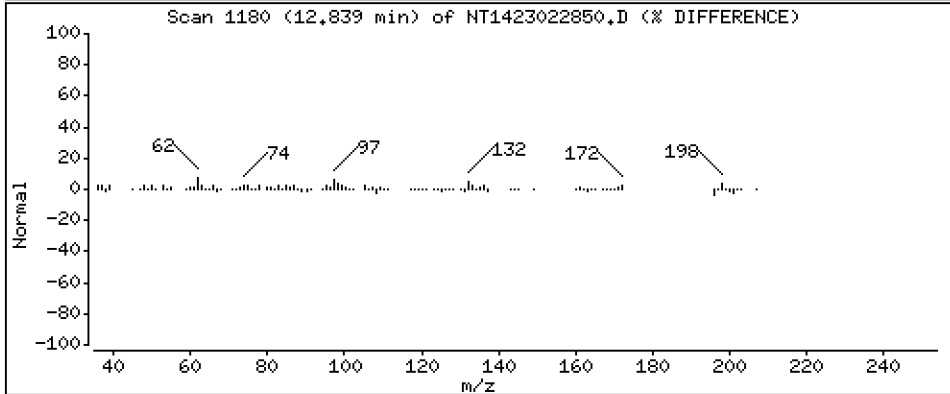
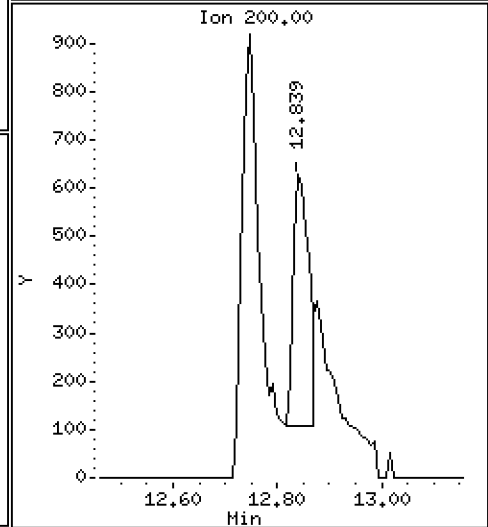
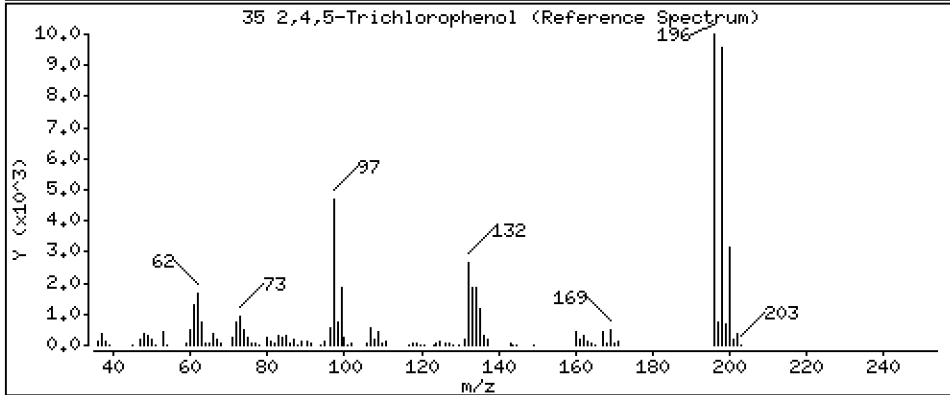
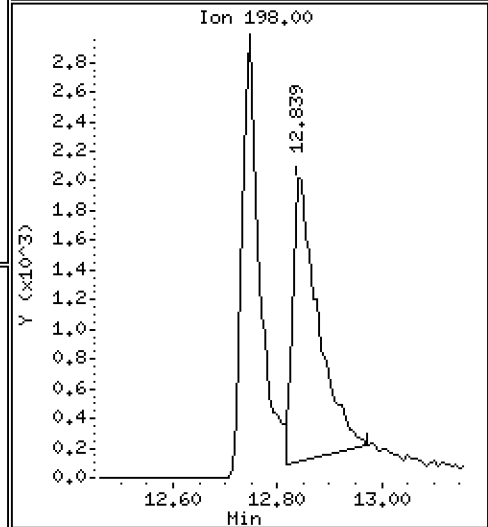
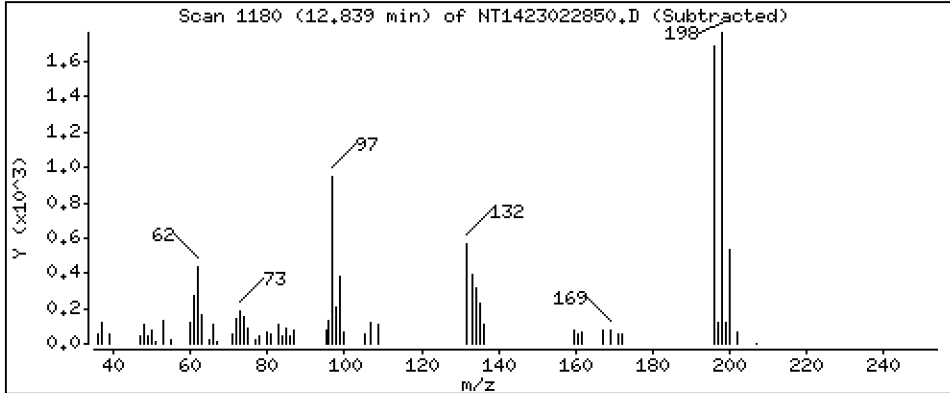
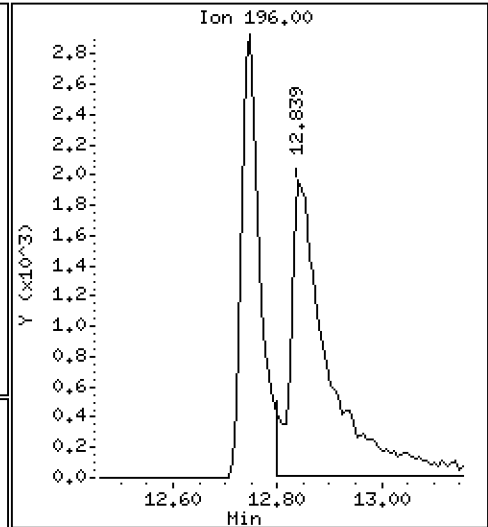
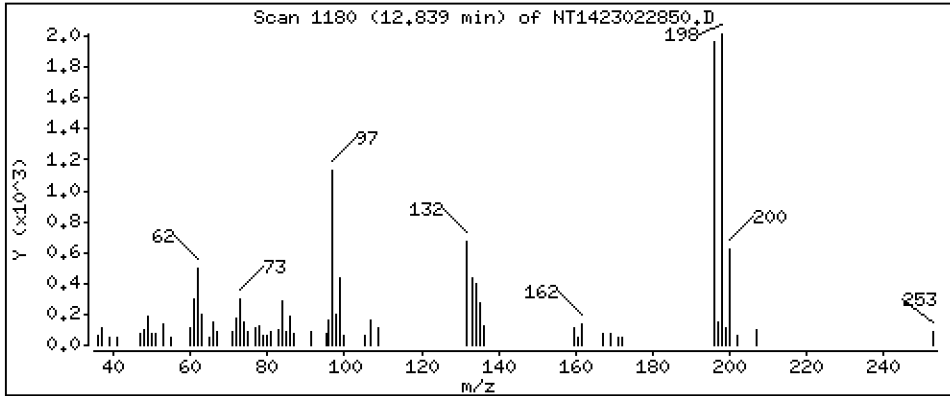
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

35 2,4,5-Trichlorophenol

Concentration: 0,4190 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

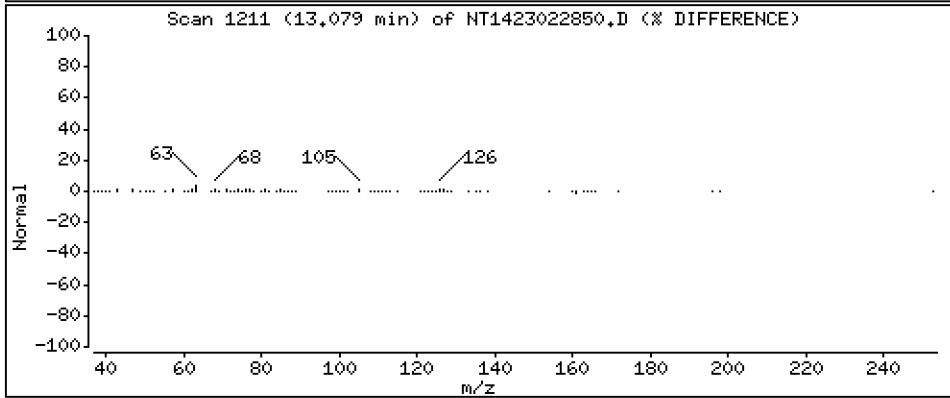
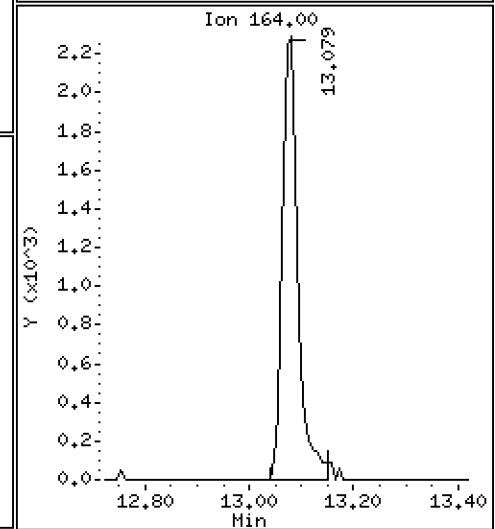
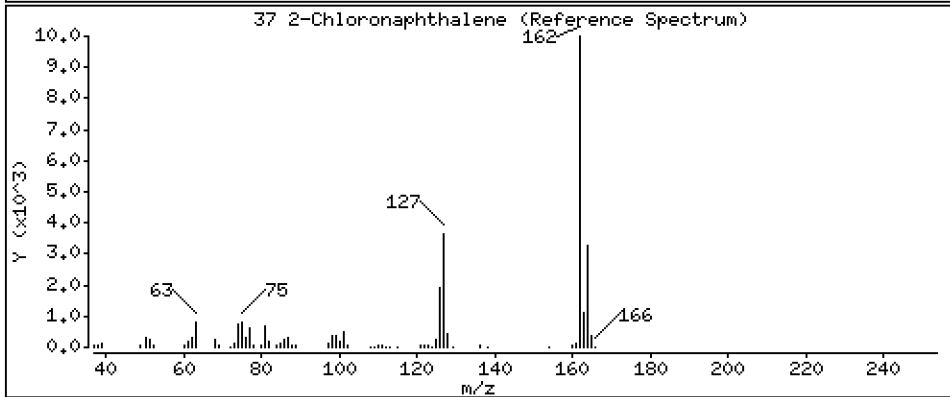
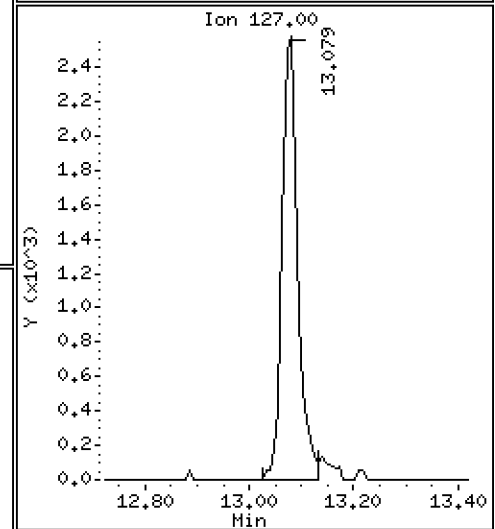
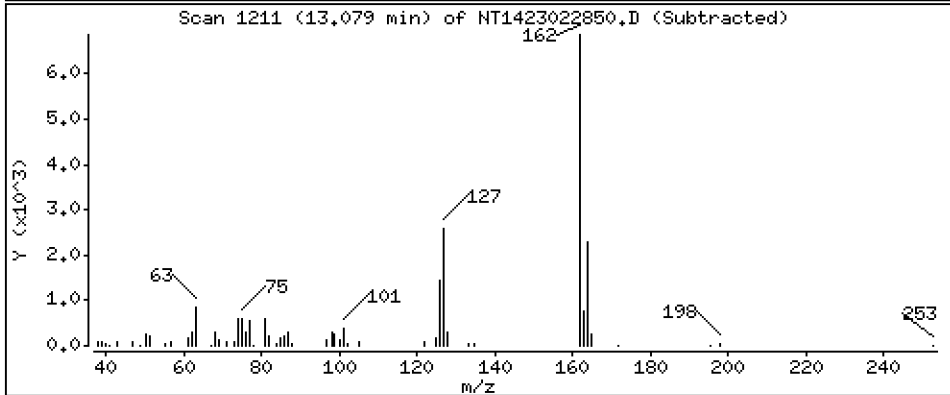
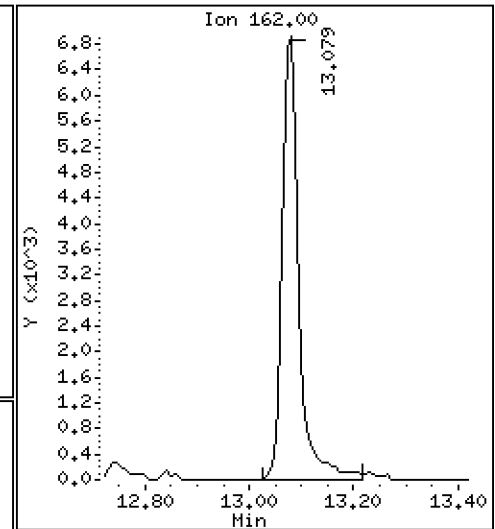
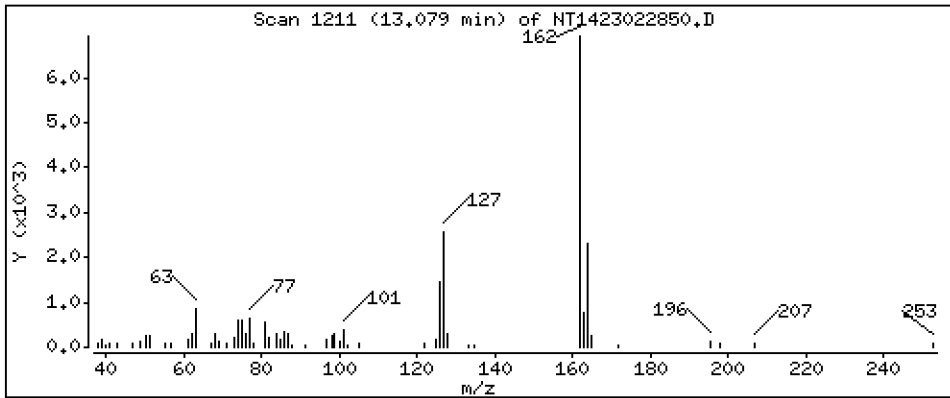
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

37 2-Chloronaphthalene

Concentration: 0,2084 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

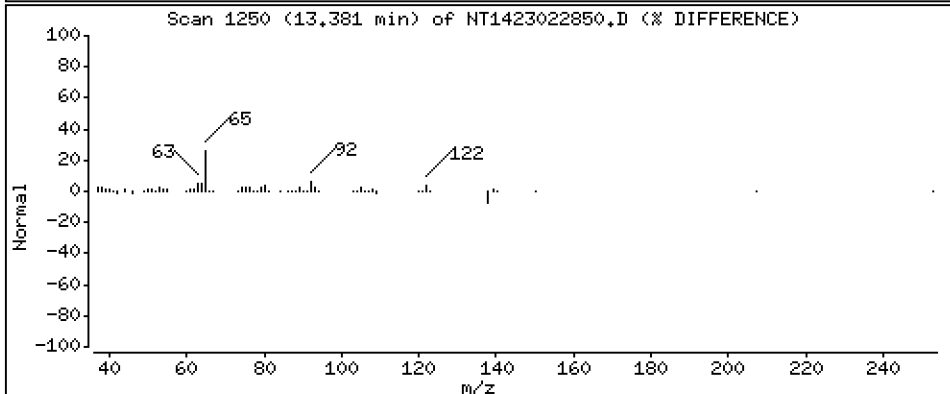
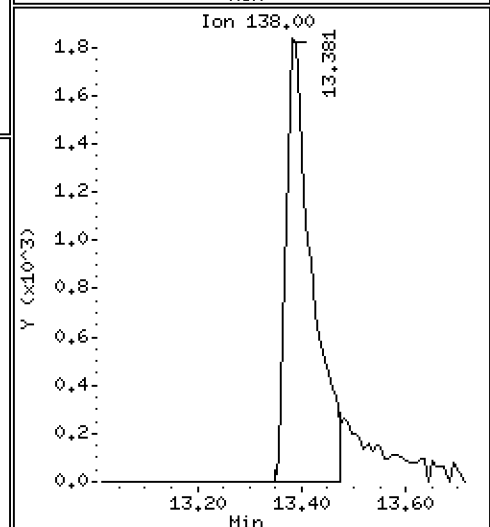
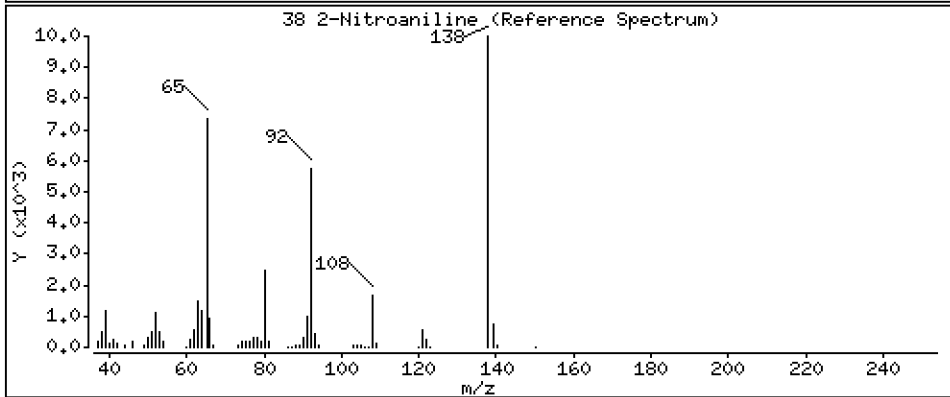
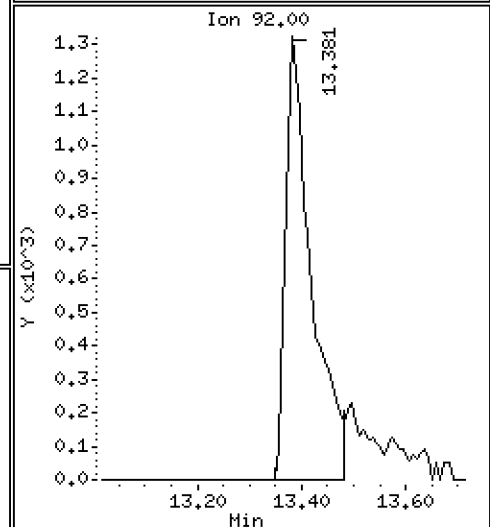
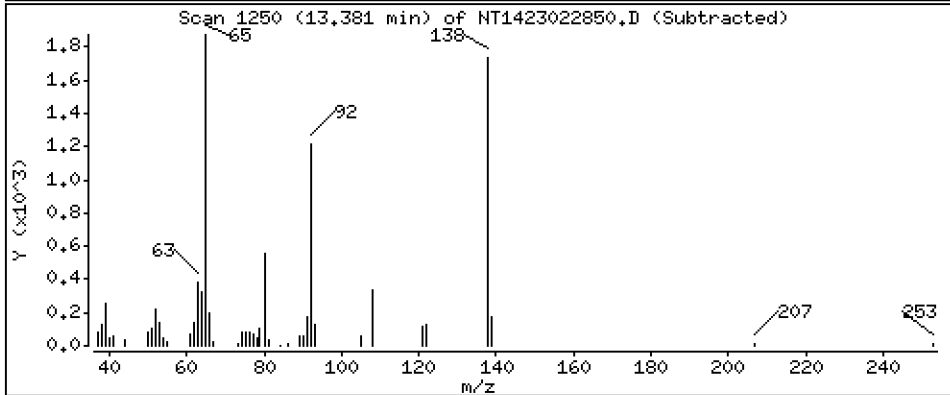
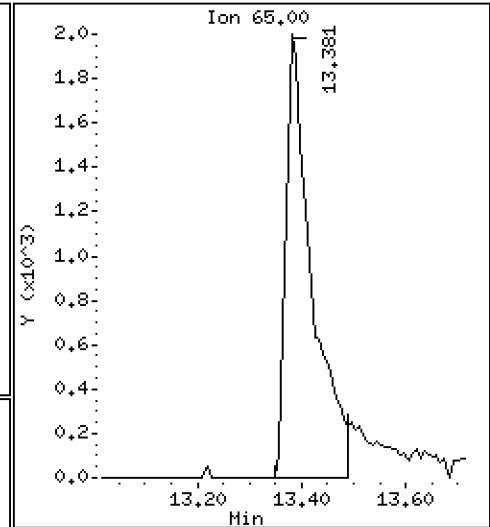
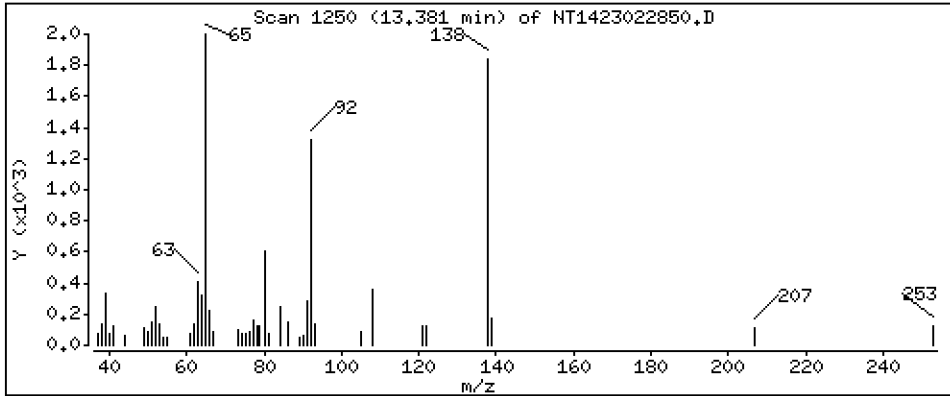
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

38 2-Nitroaniline

Concentration: 0,3674 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

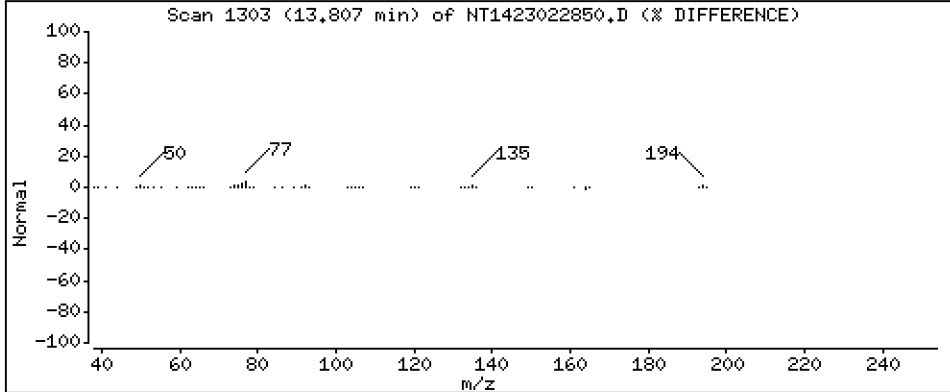
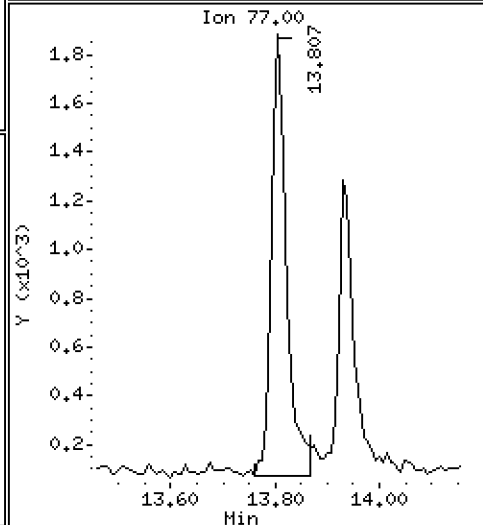
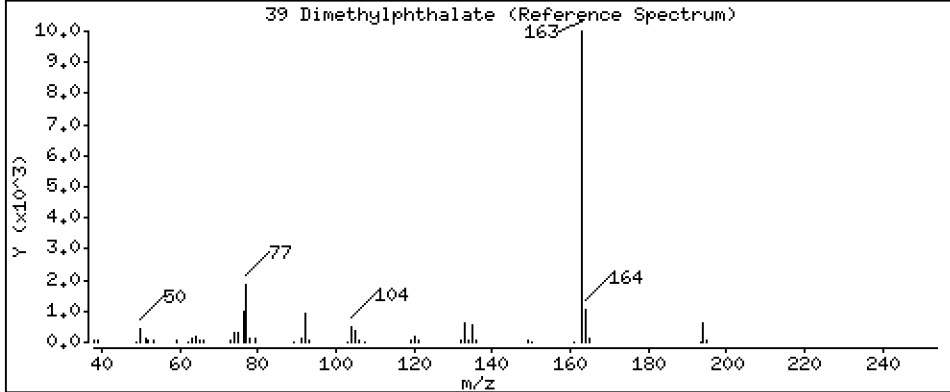
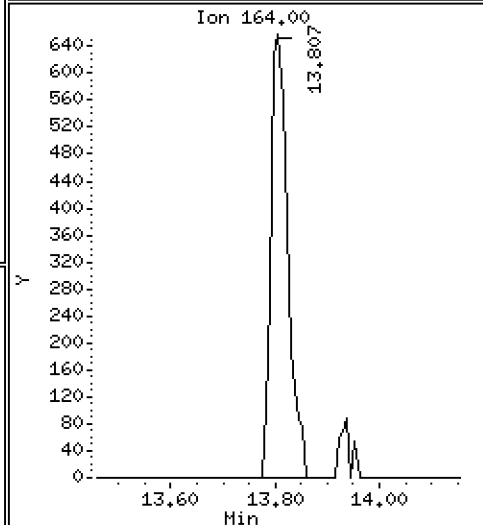
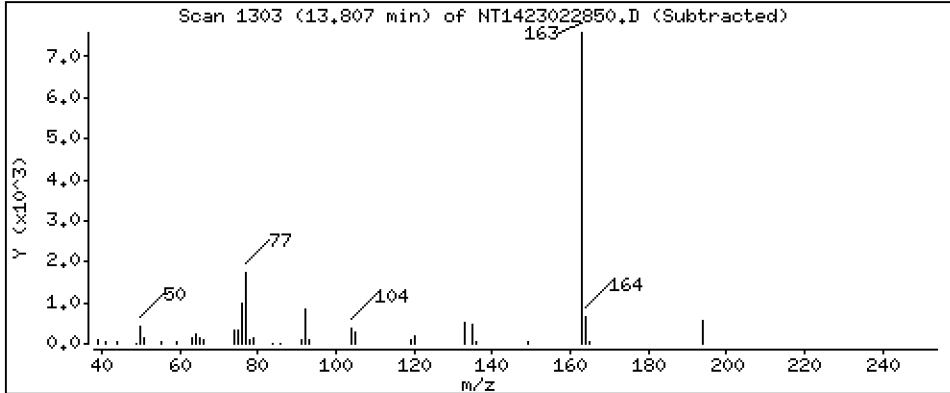
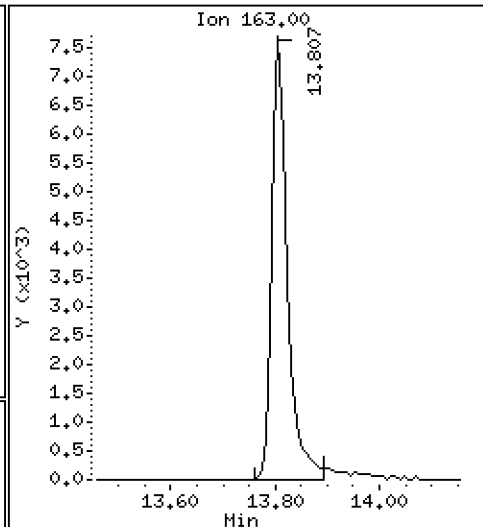
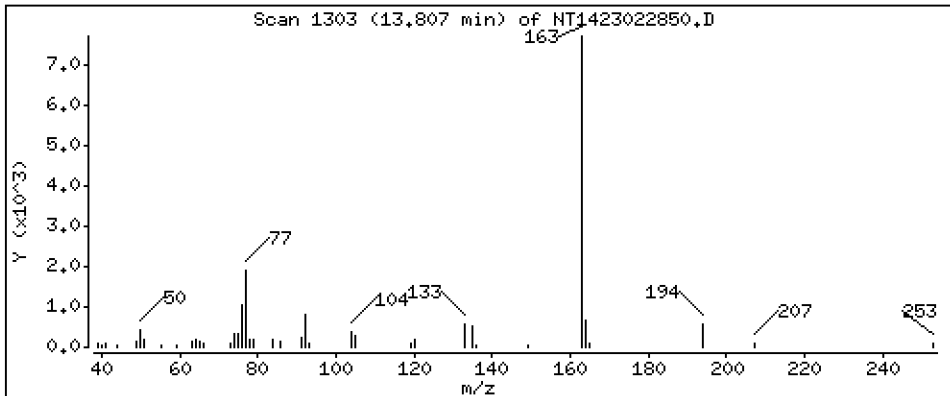
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 0,2096 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

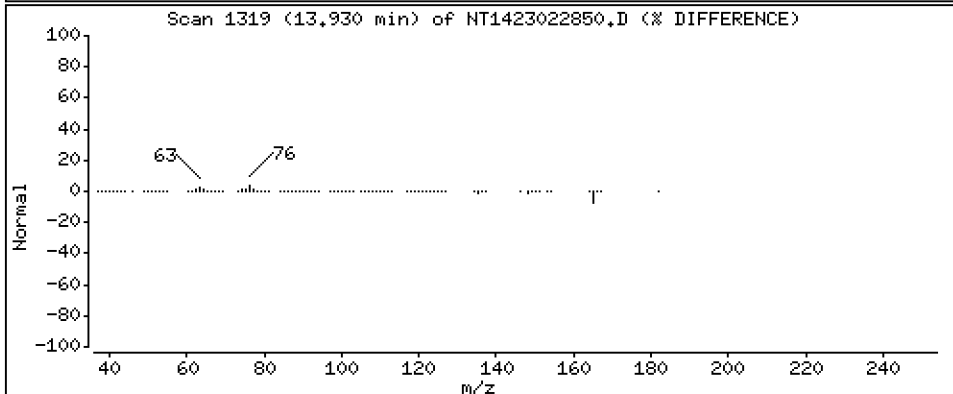
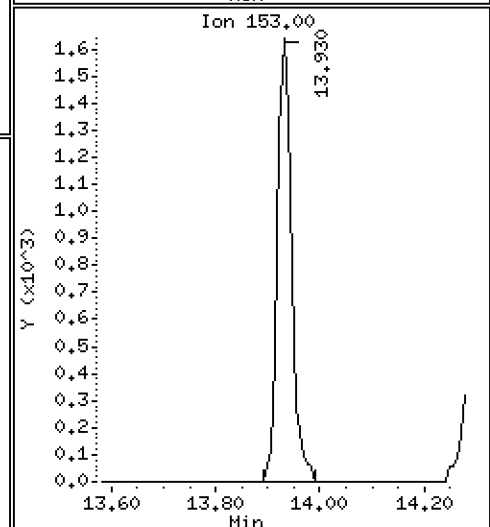
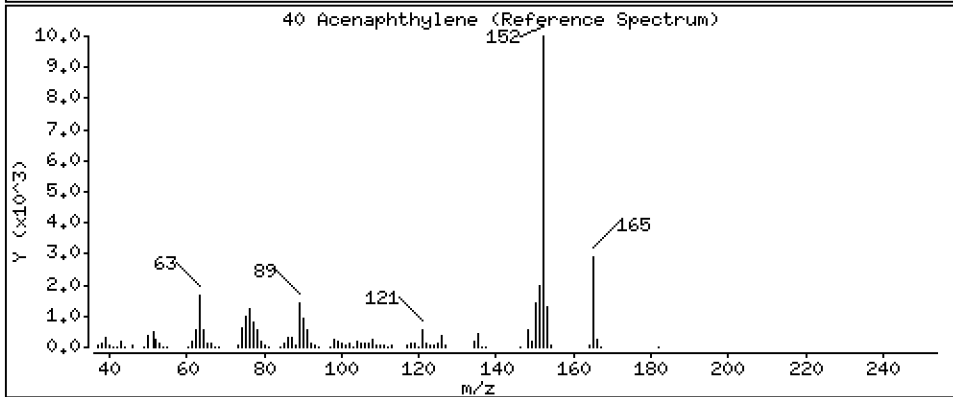
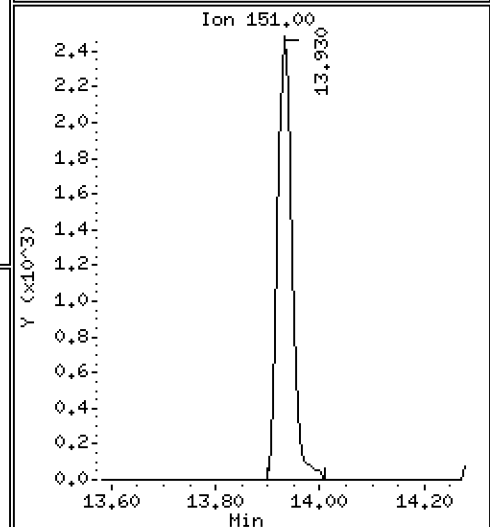
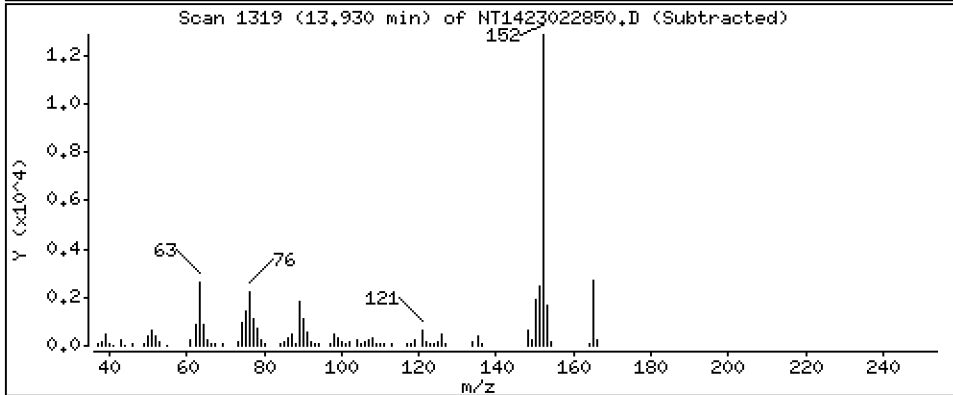
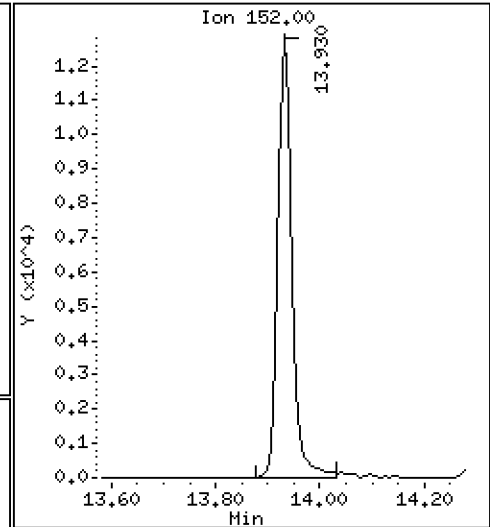
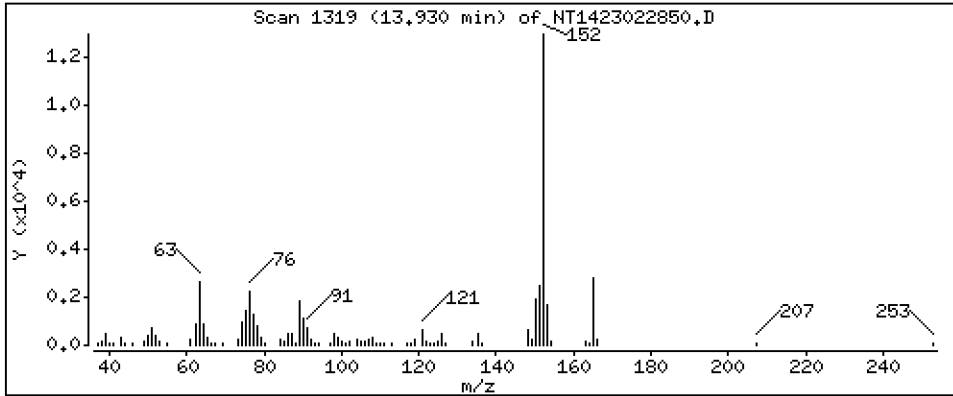
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 0,2184 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

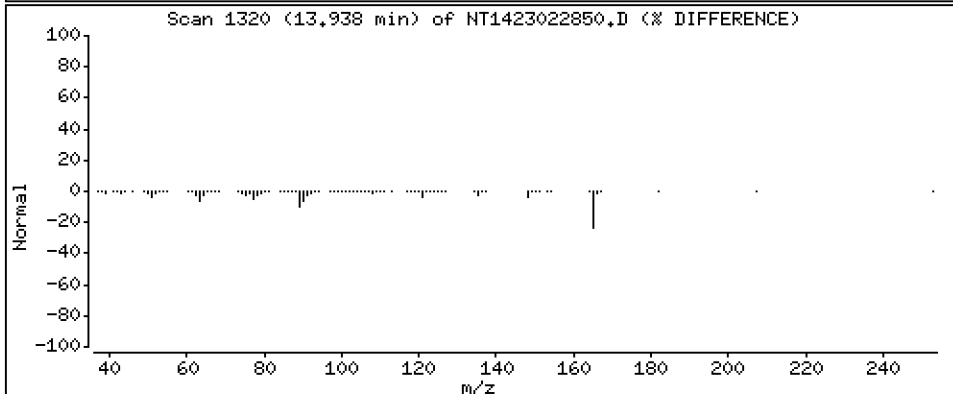
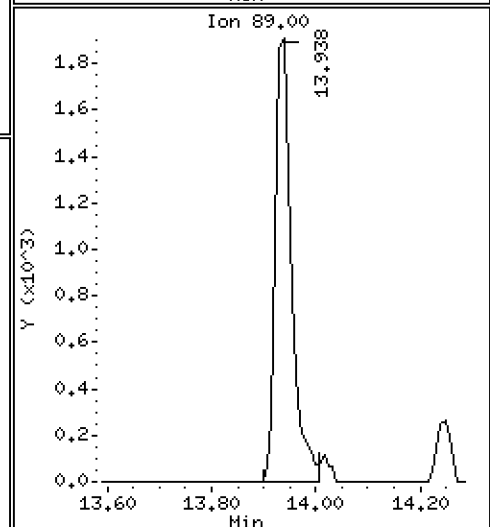
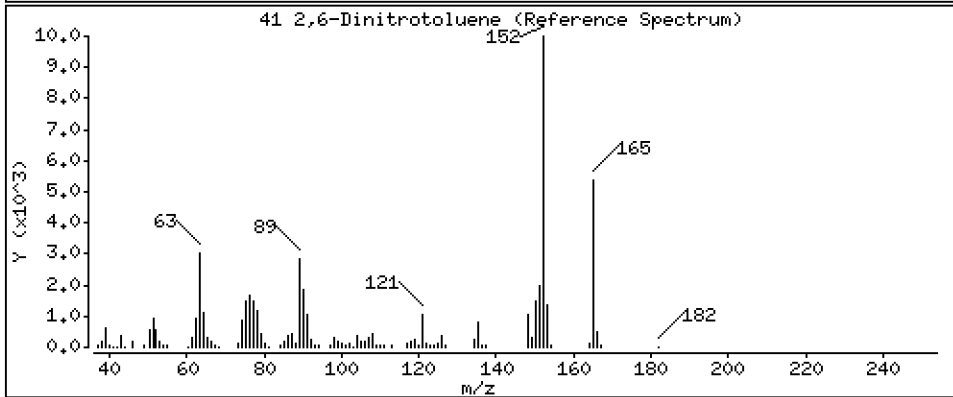
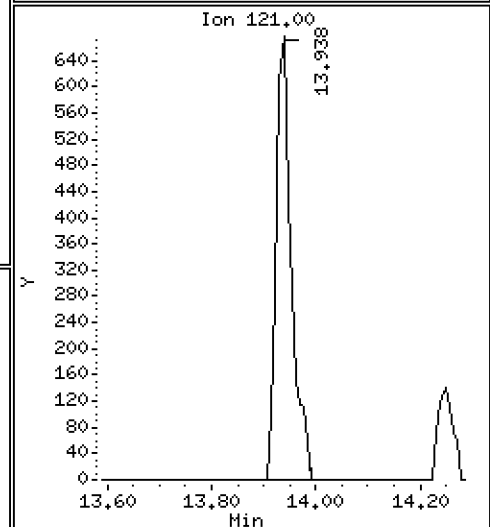
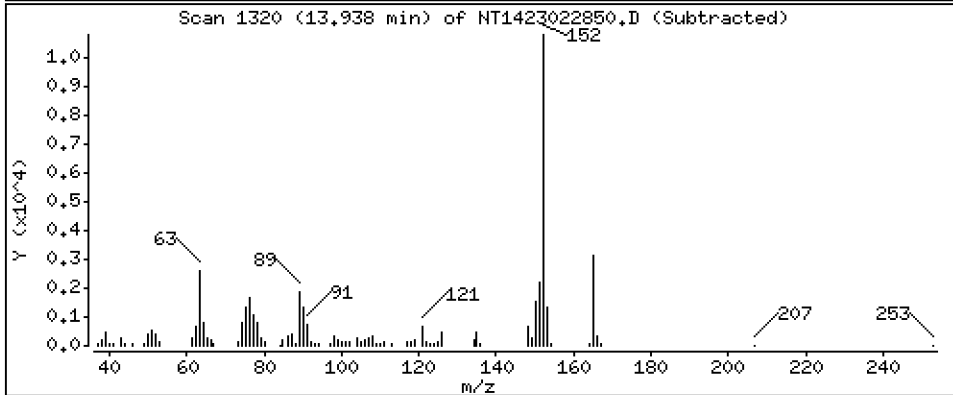
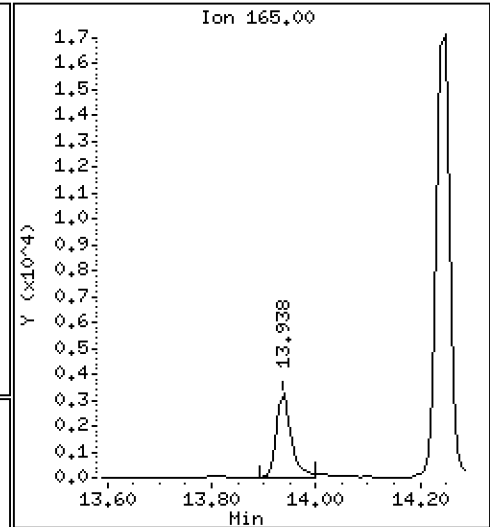
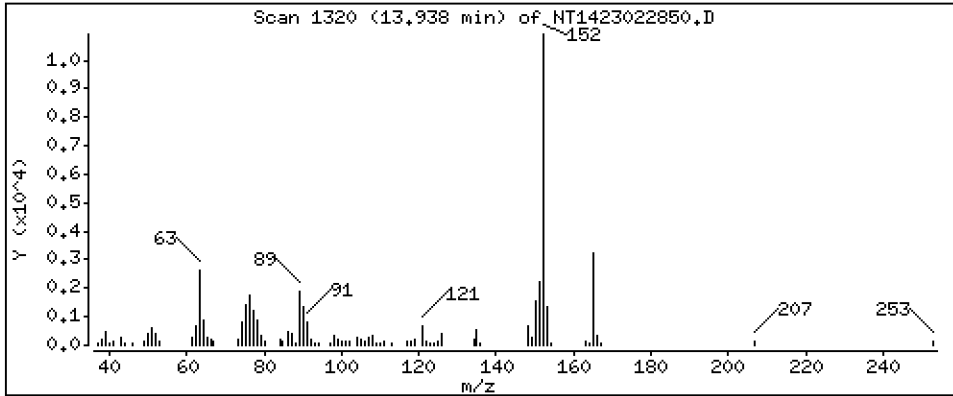
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

41 2,6-Dinitrotoluene

Concentration: 0,3645 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

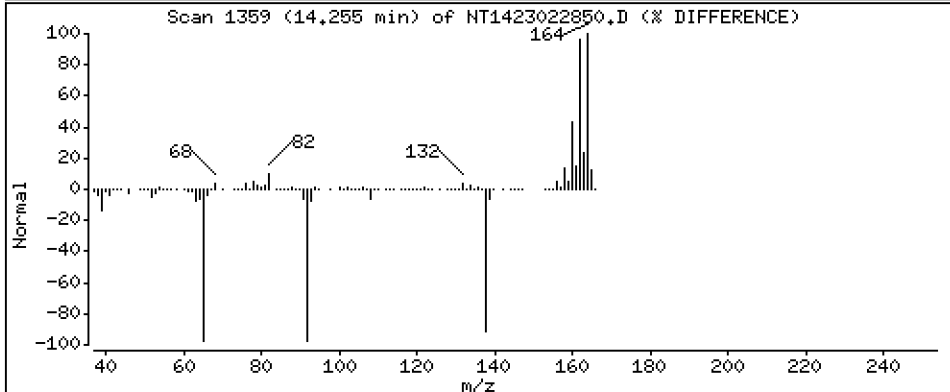
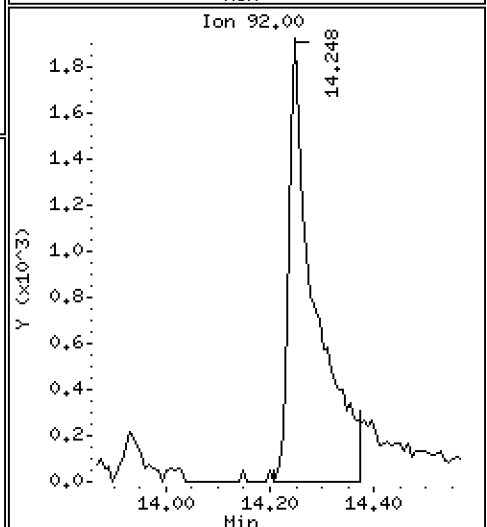
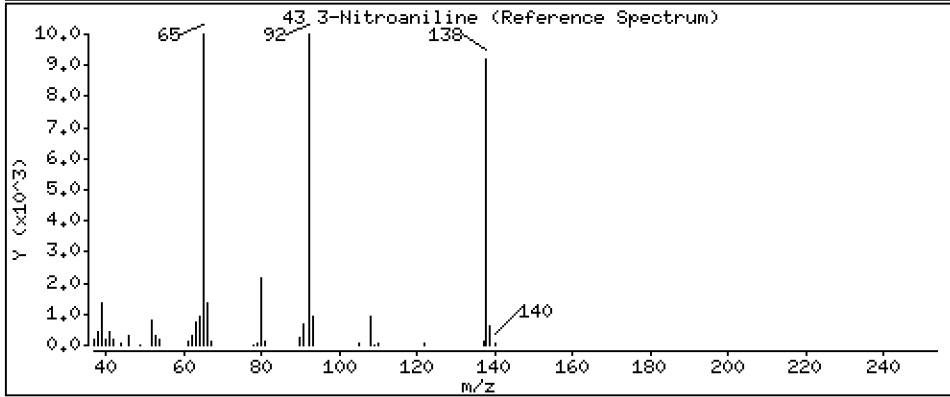
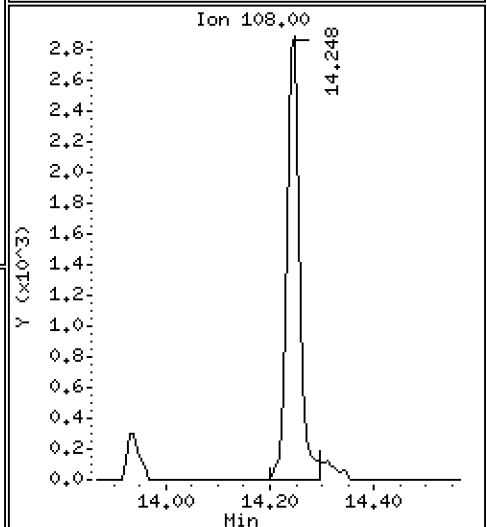
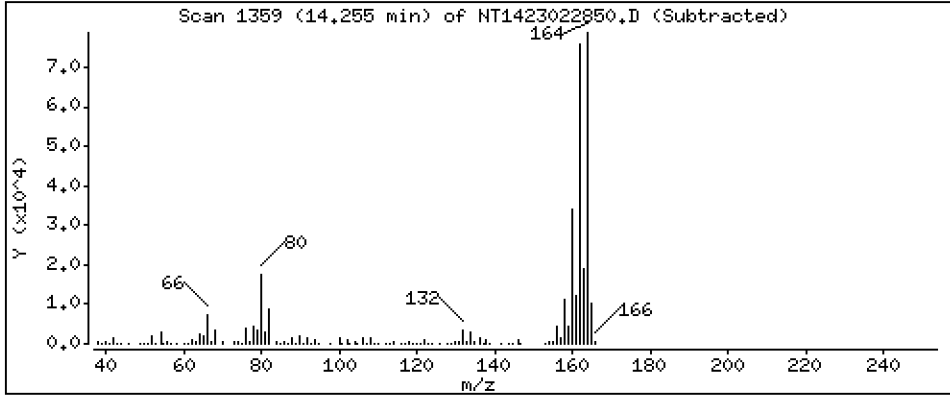
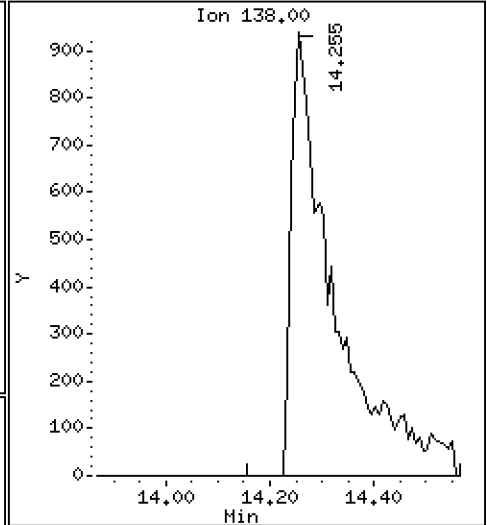
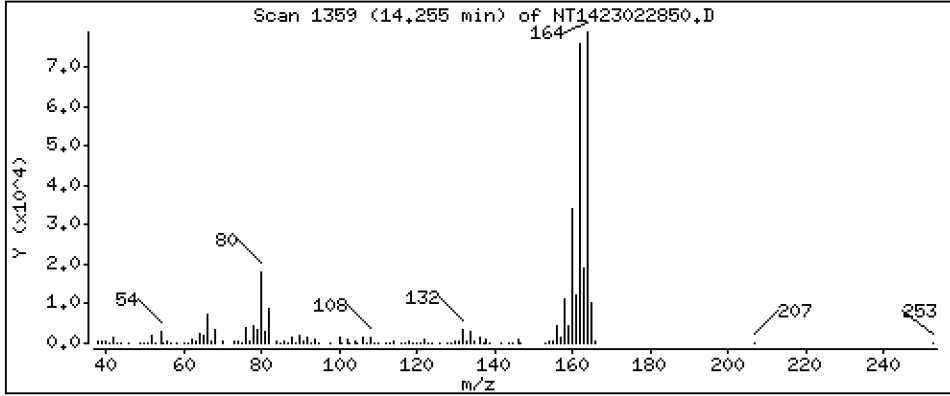
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

43 3-Nitroaniline

Concentration: 0,3086 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

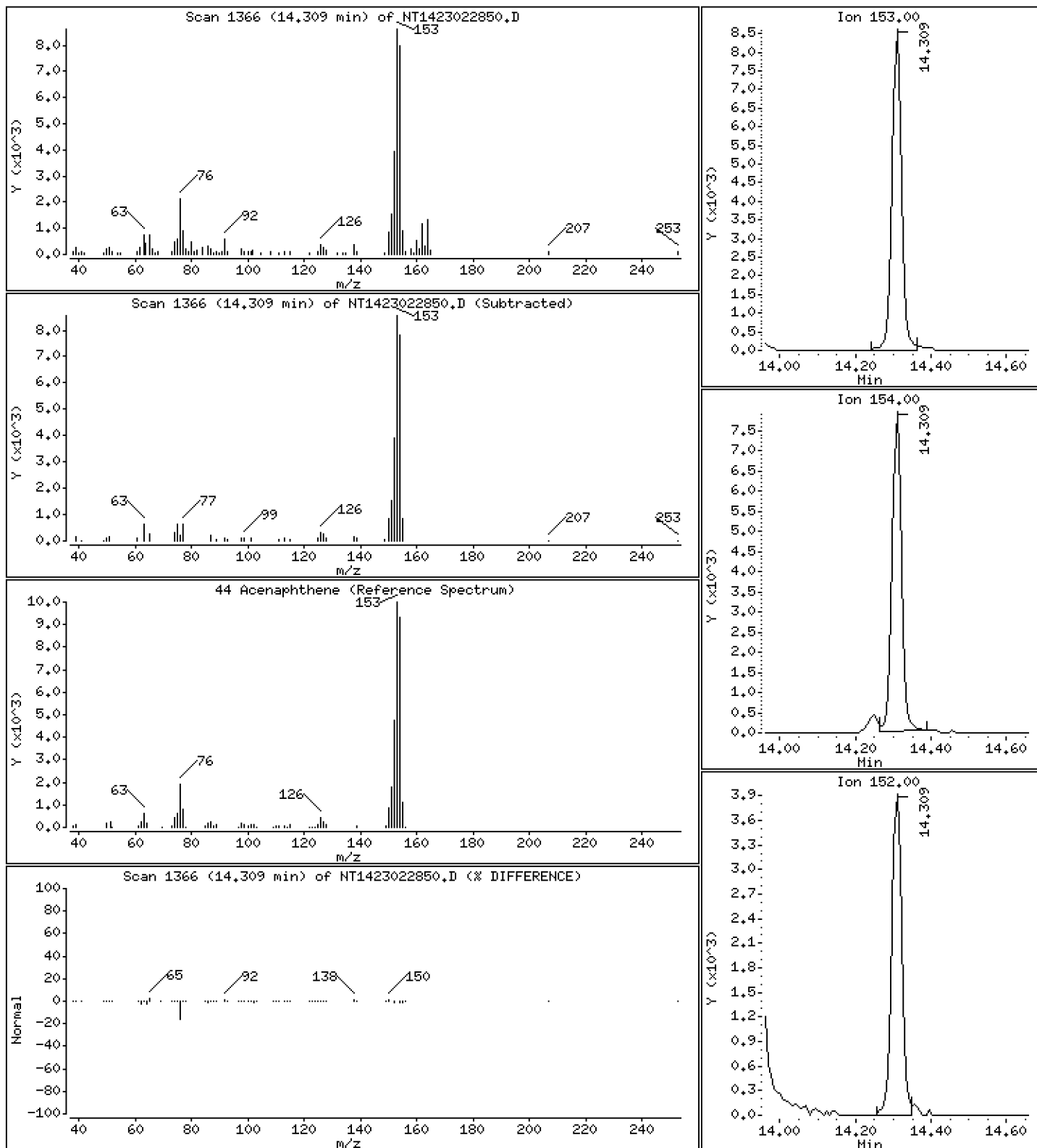
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 0,2105 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

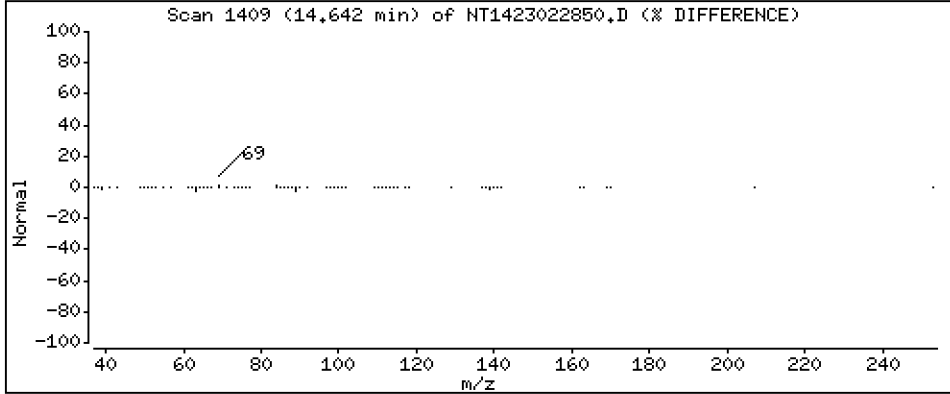
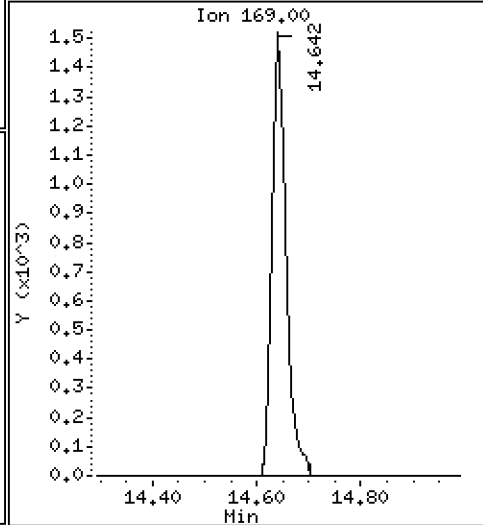
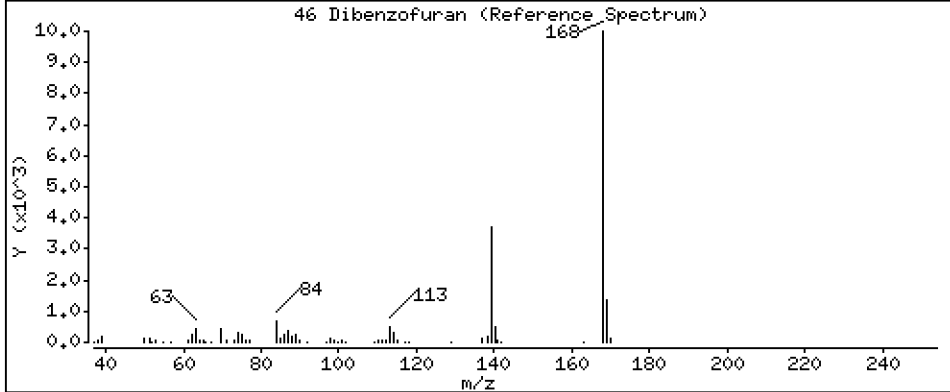
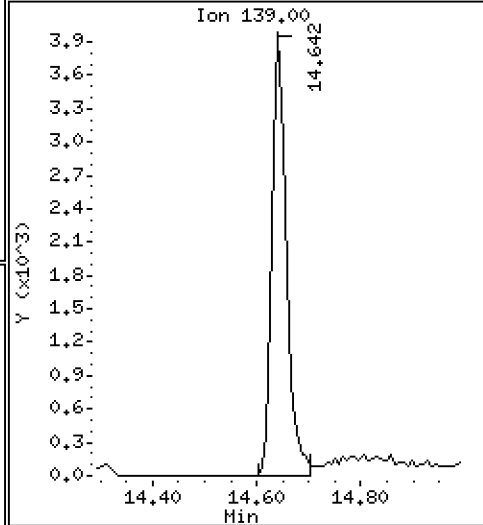
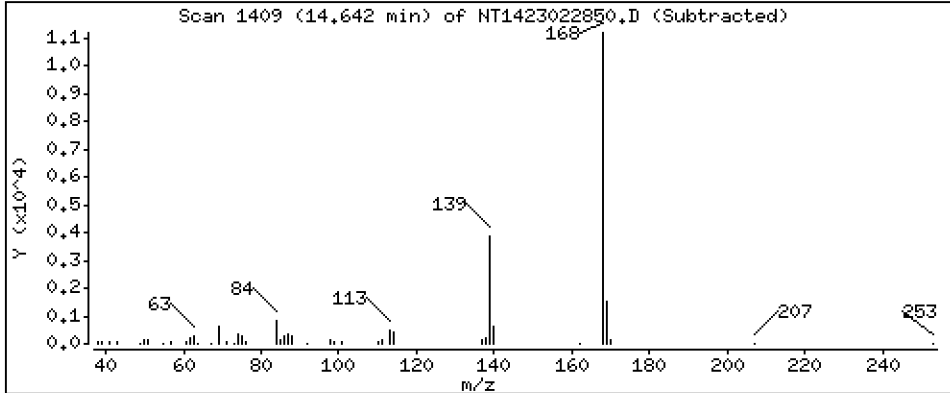
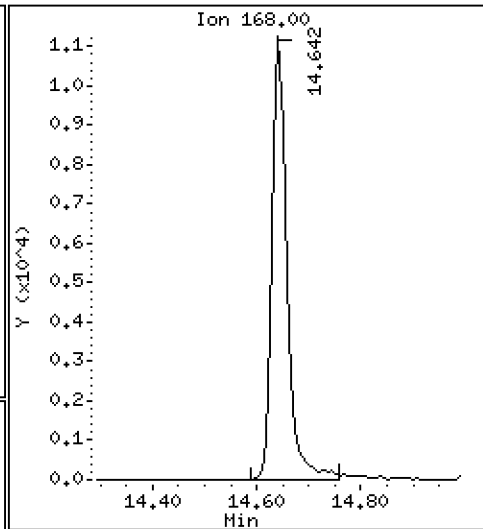
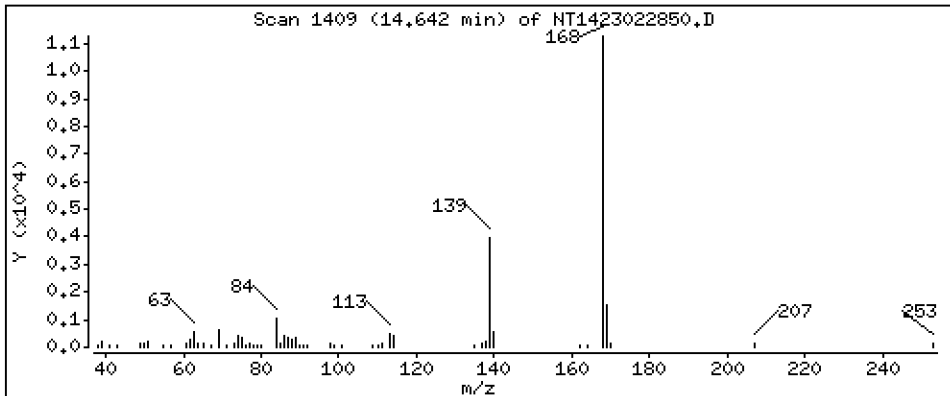
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 0,2001 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

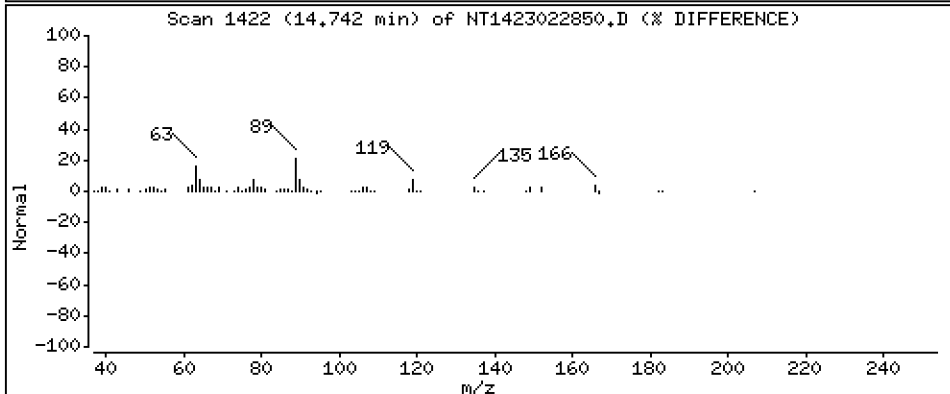
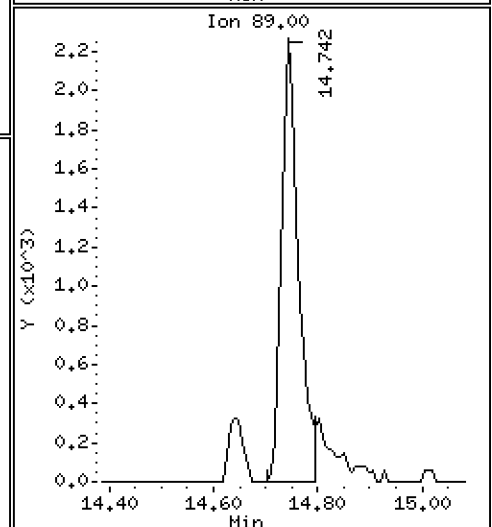
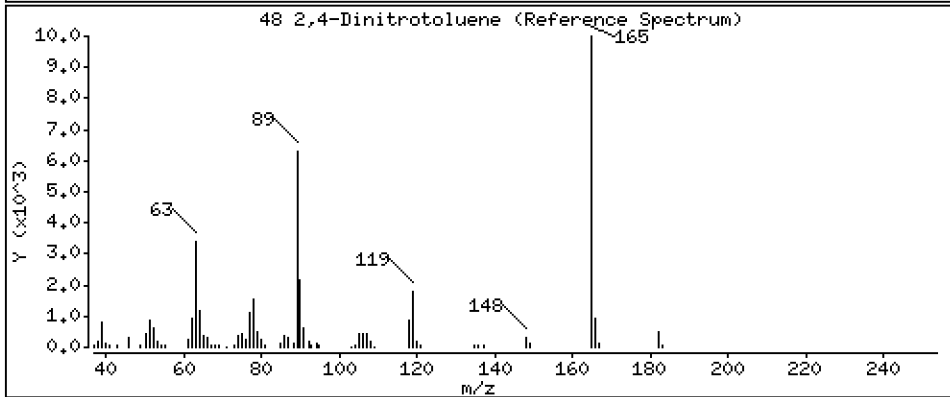
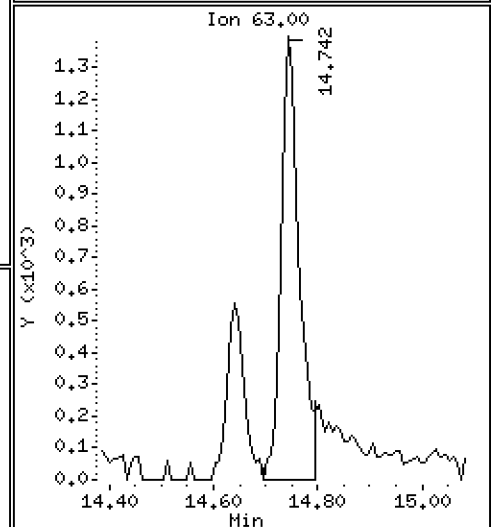
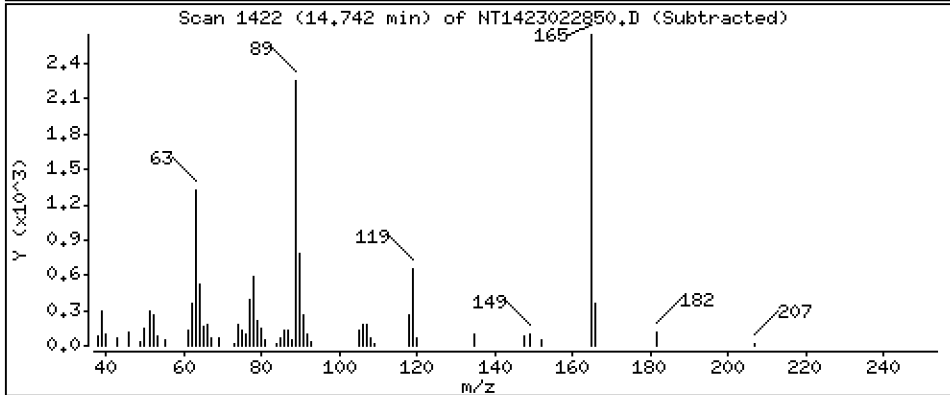
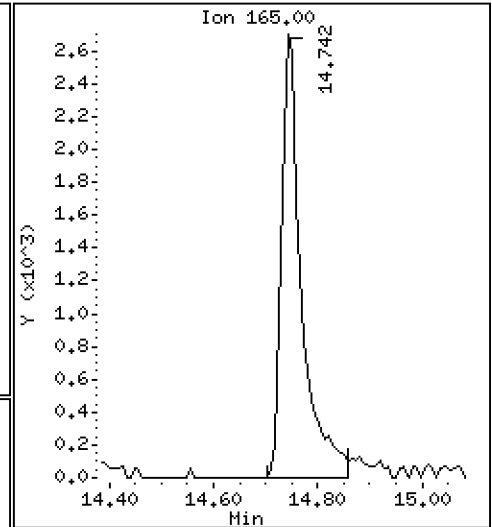
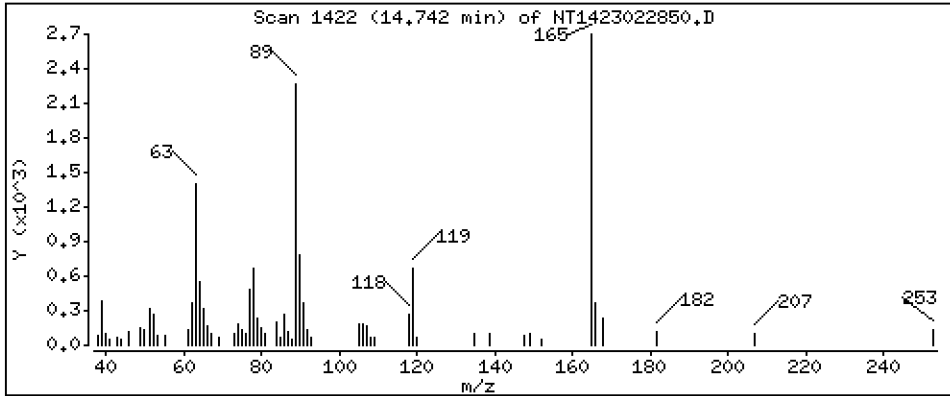
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

48 2,4-Dinitrotoluene

Concentration: 0,2942 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

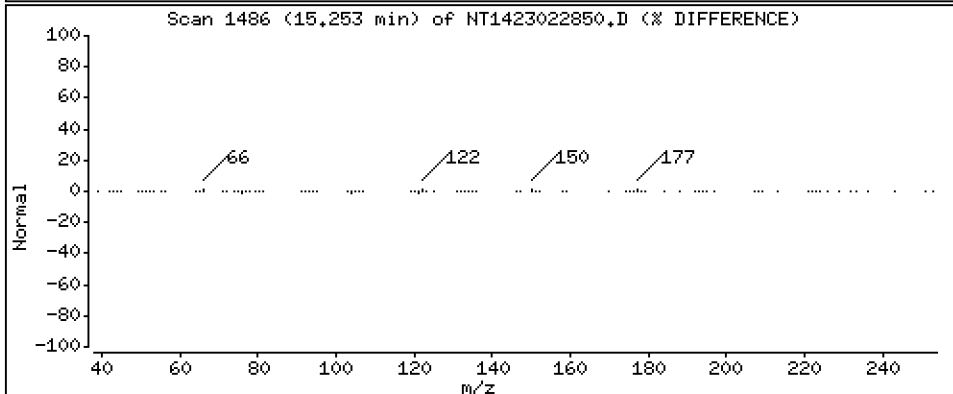
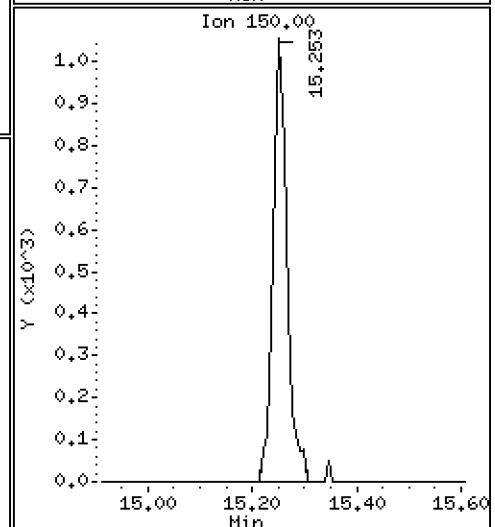
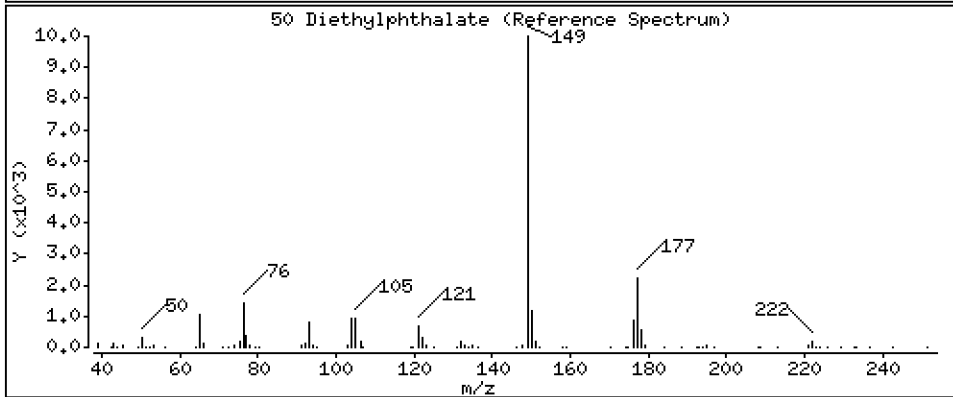
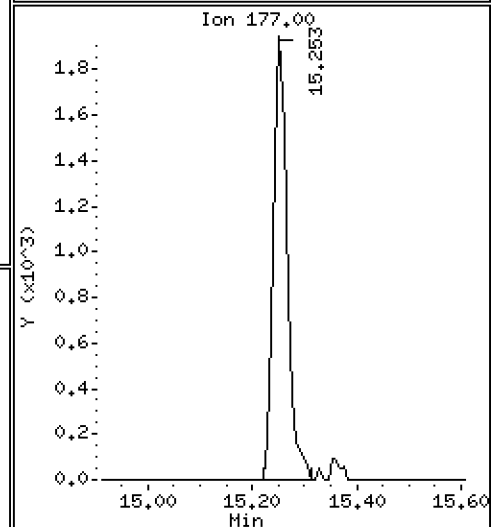
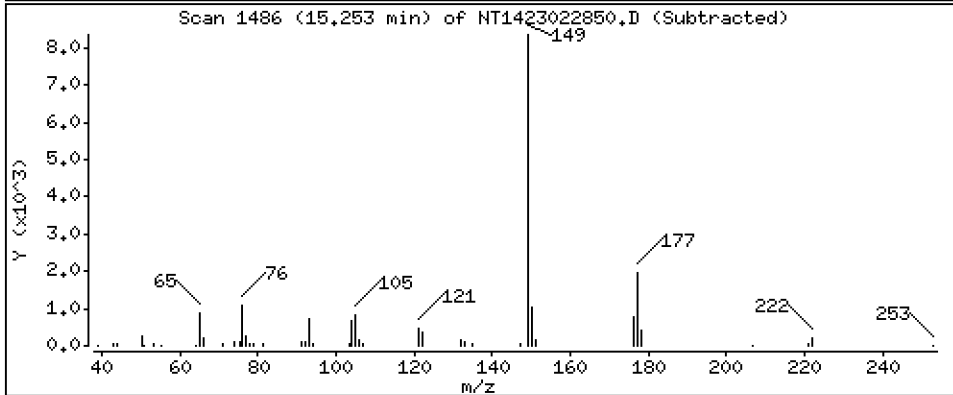
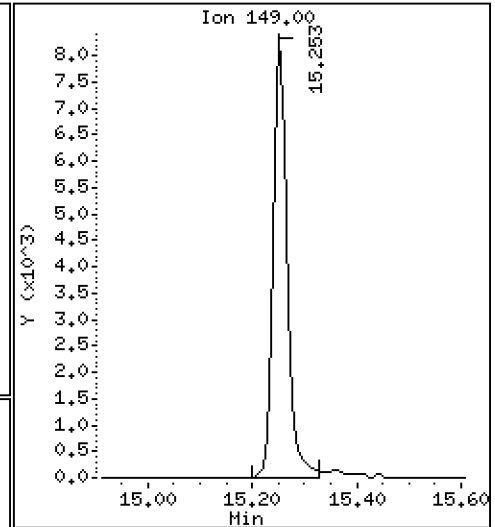
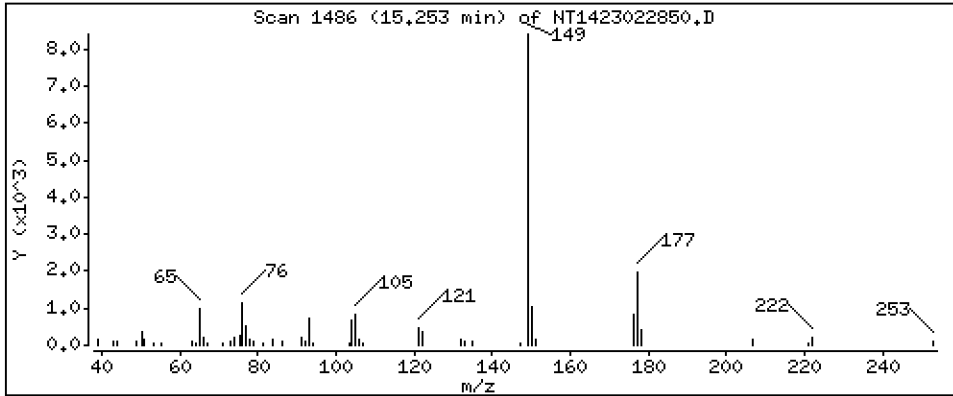
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 0,2168 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

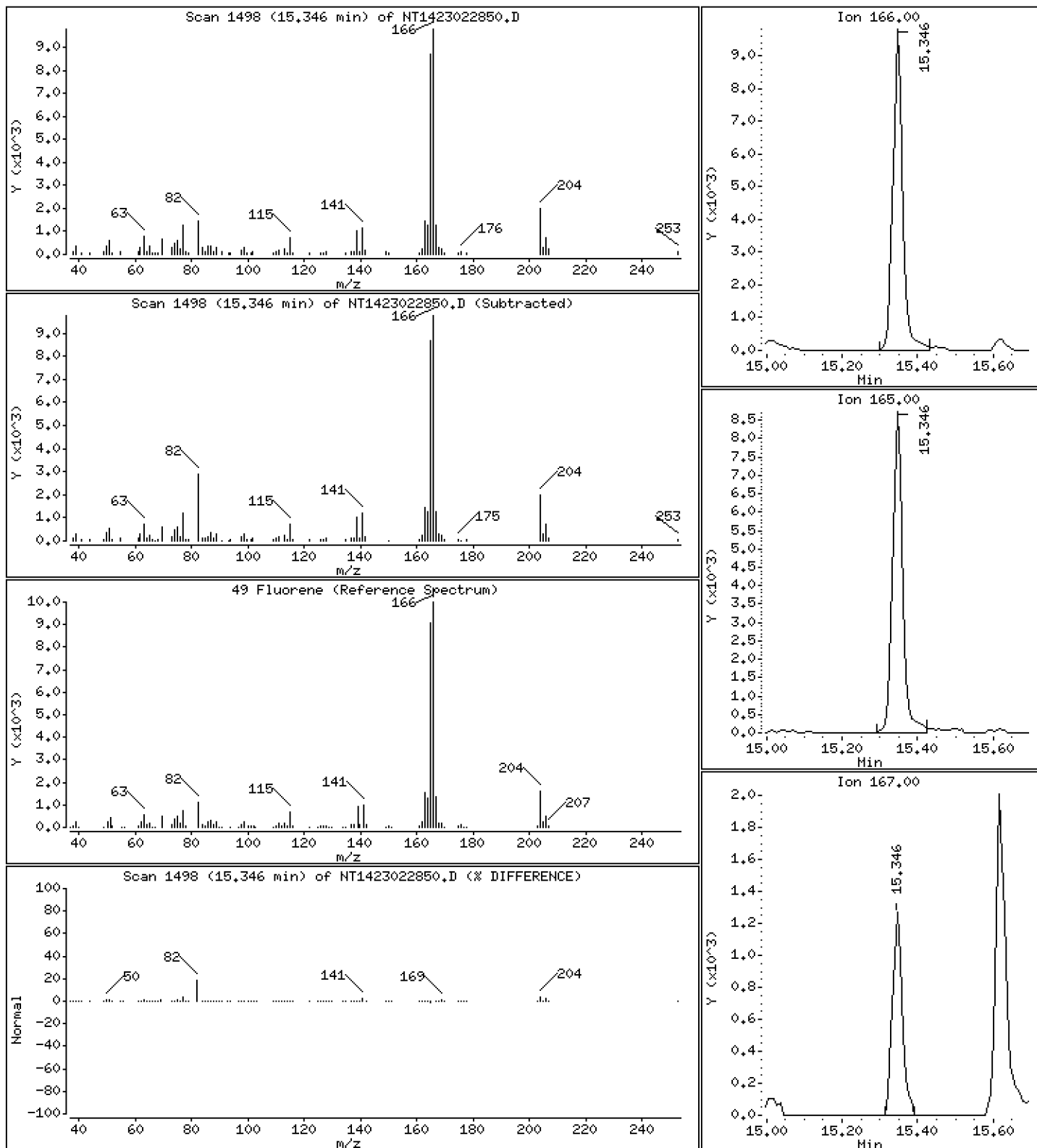
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 0,2121 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

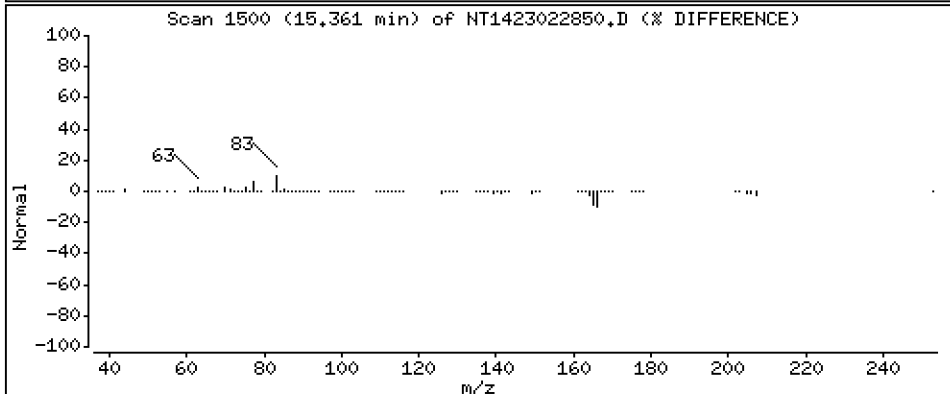
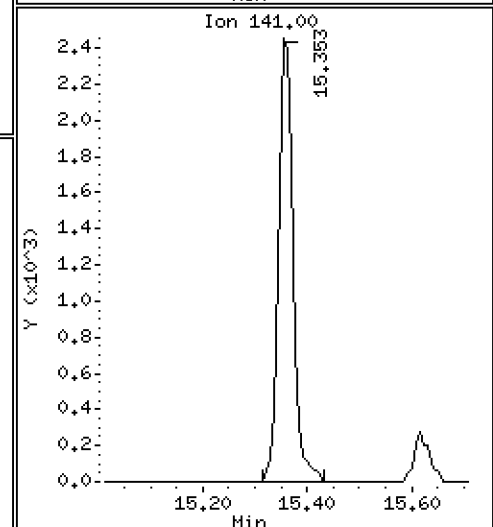
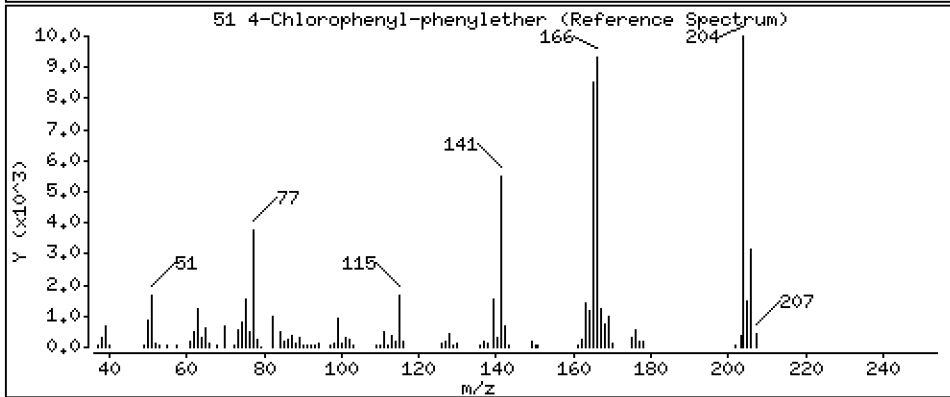
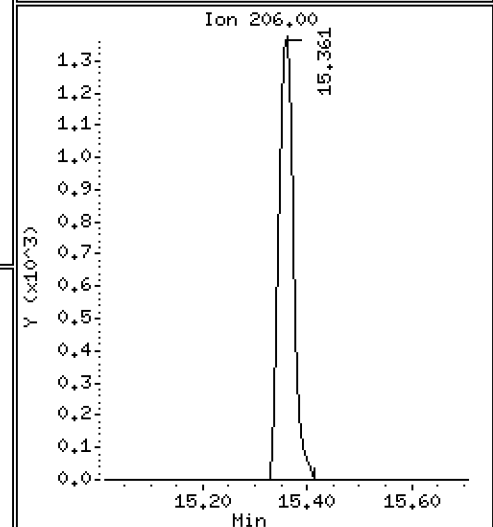
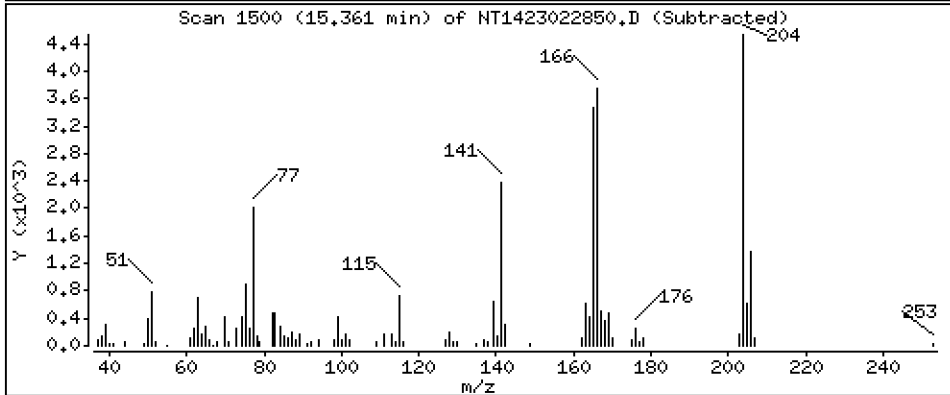
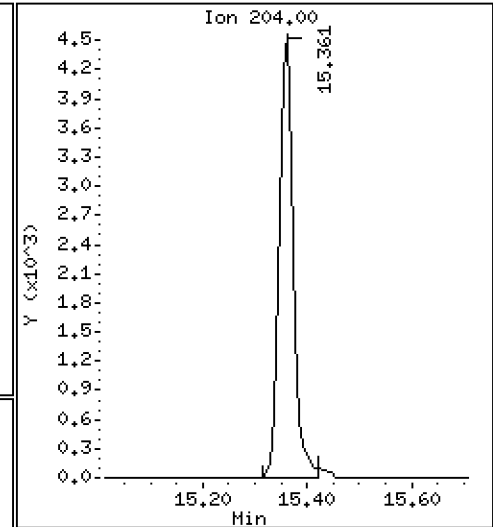
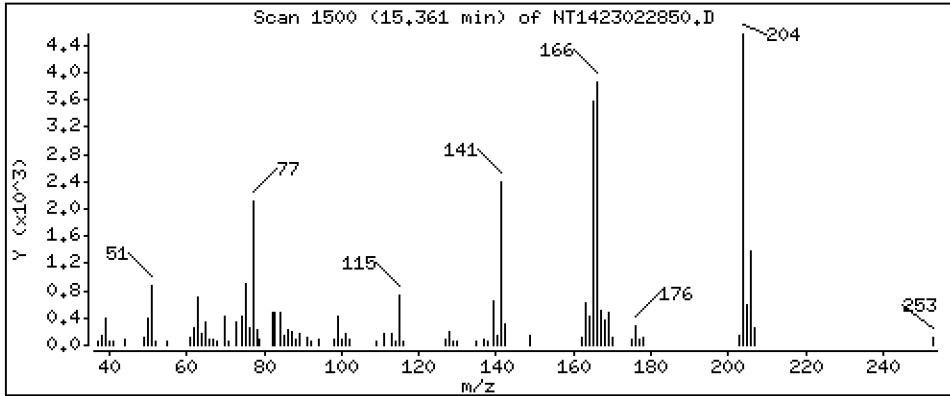
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 0,1961 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

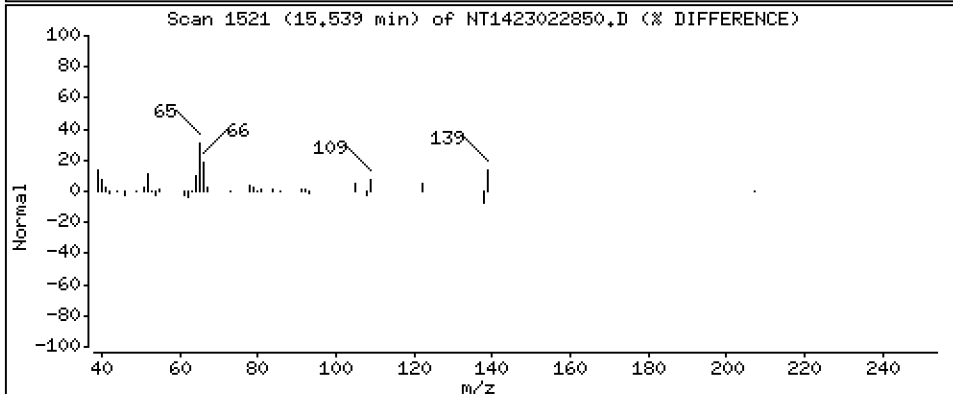
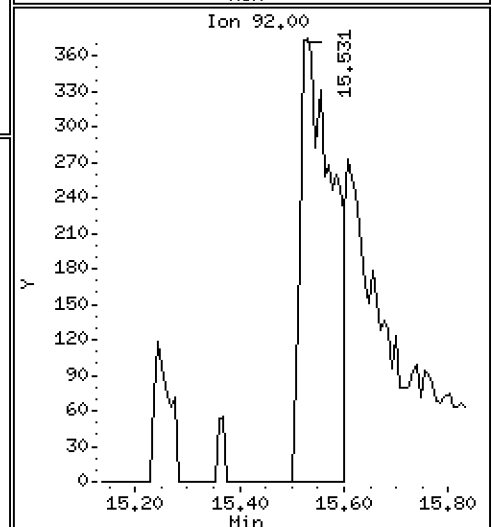
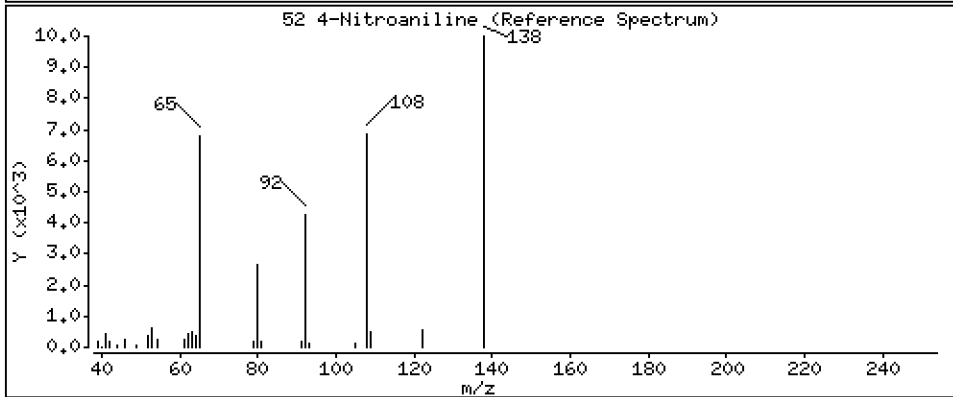
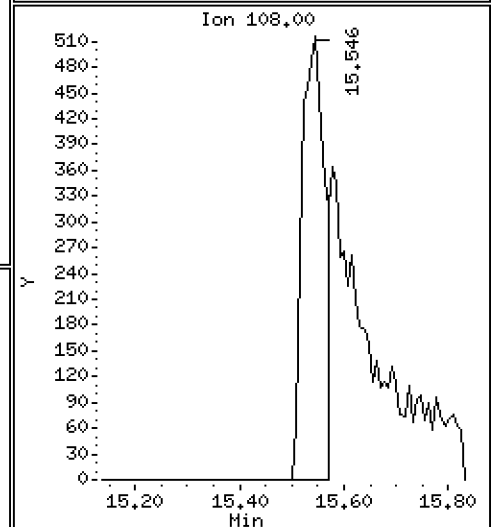
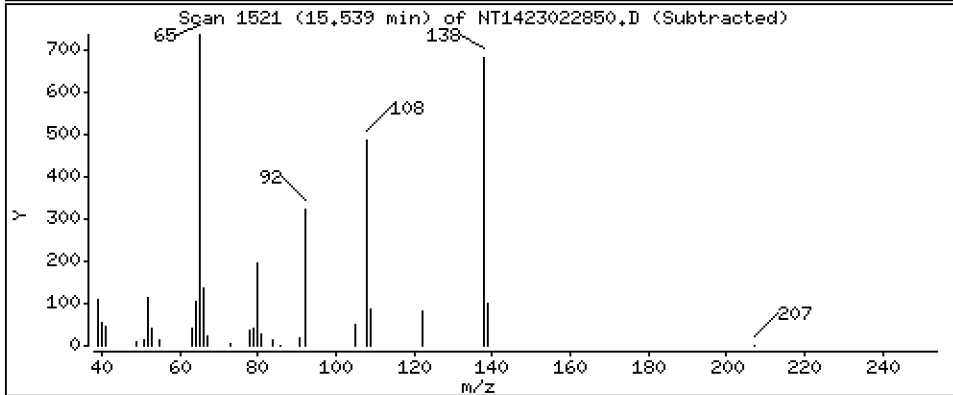
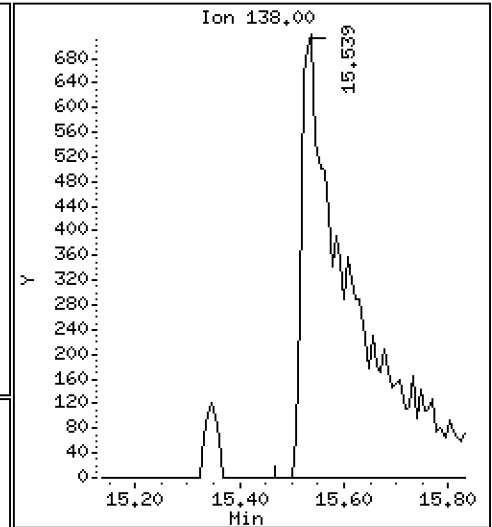
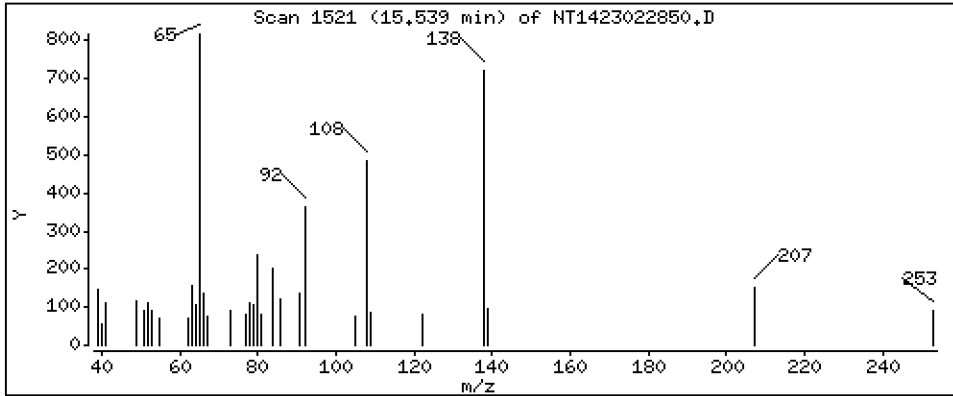
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

52 4-Nitroaniline

Concentration: 0,2914 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

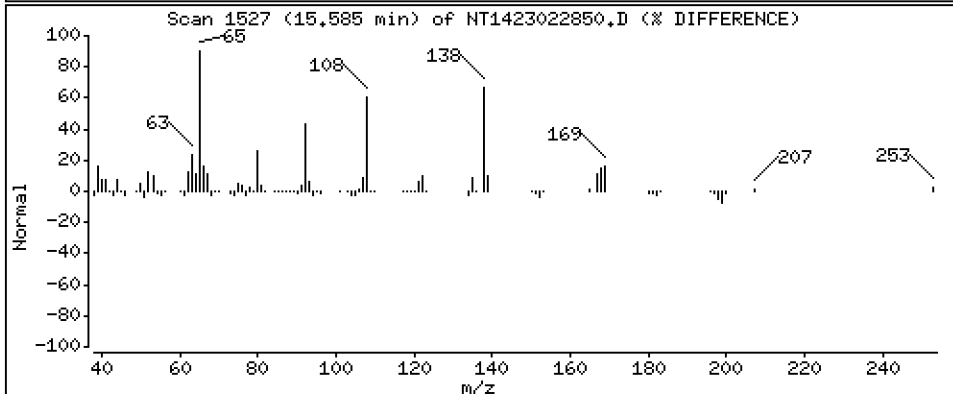
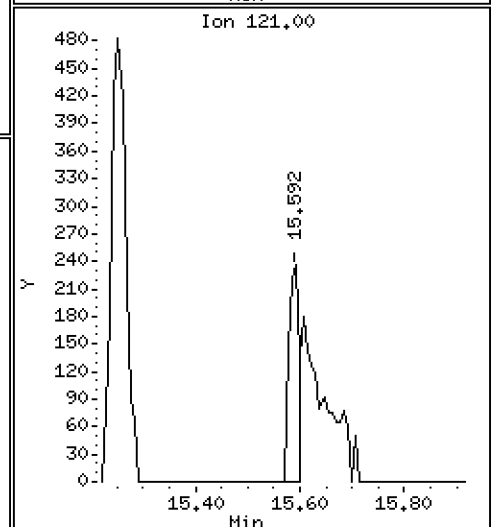
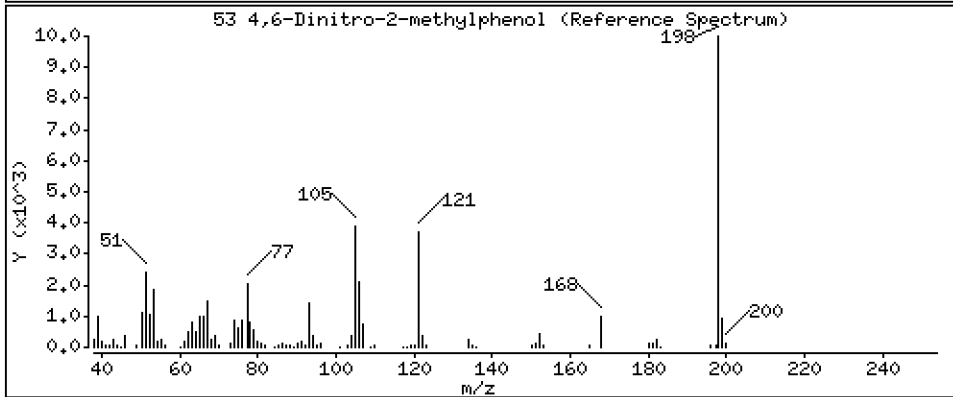
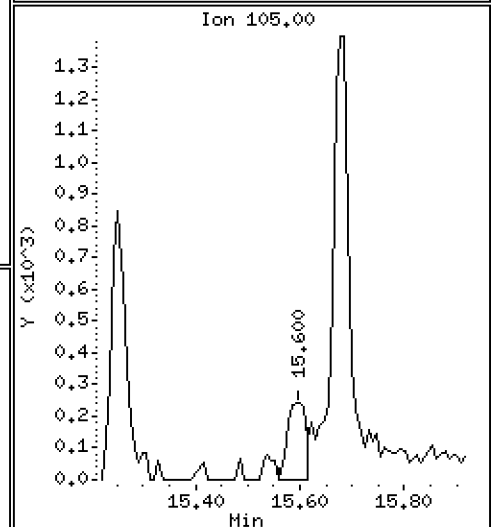
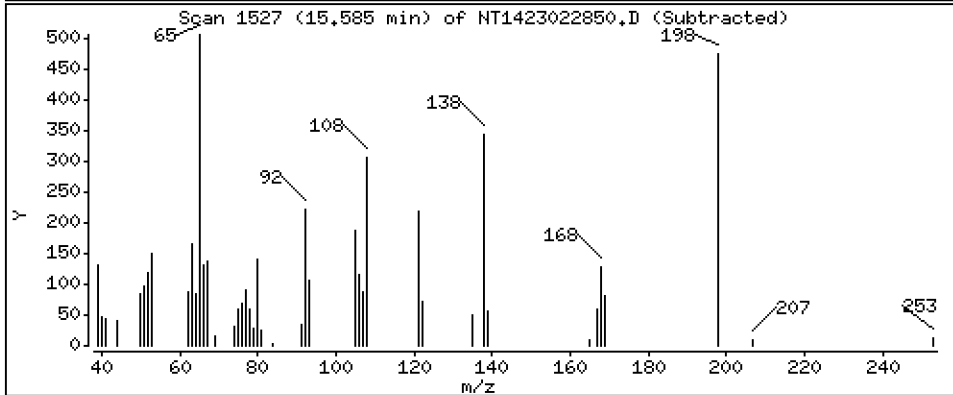
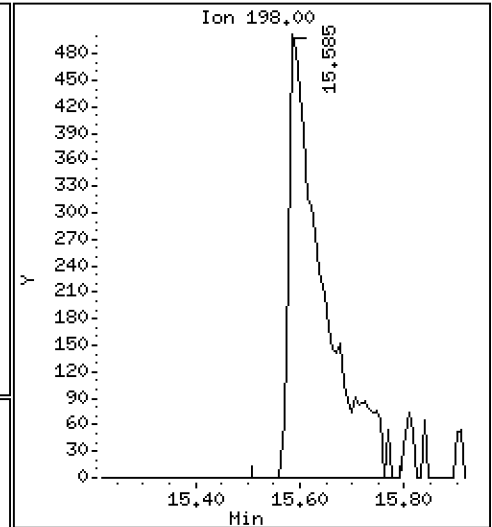
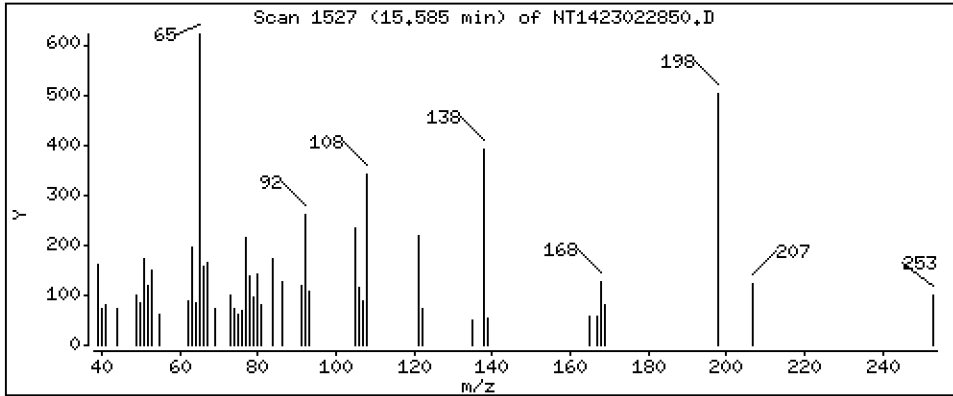
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

53 4,6-Dinitro-2-methylphenol

Concentration: 0.1648 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

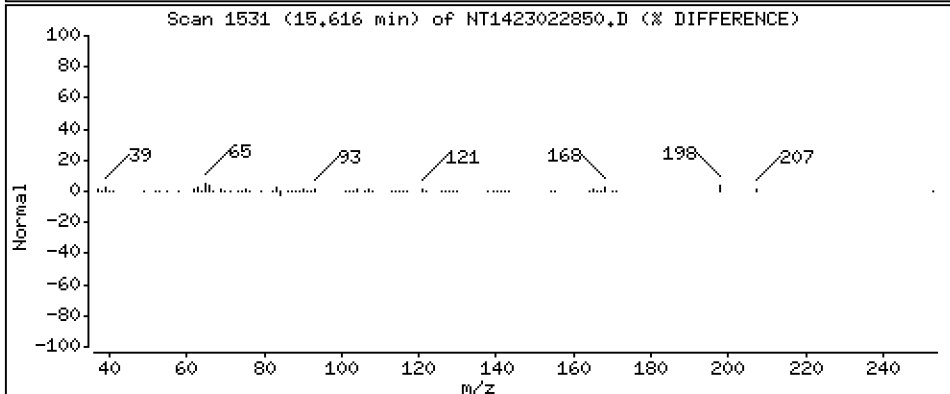
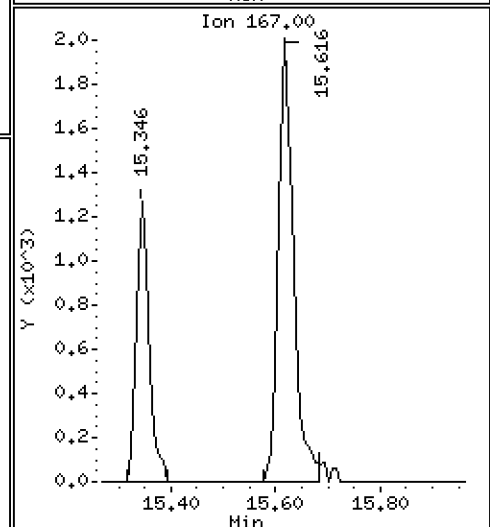
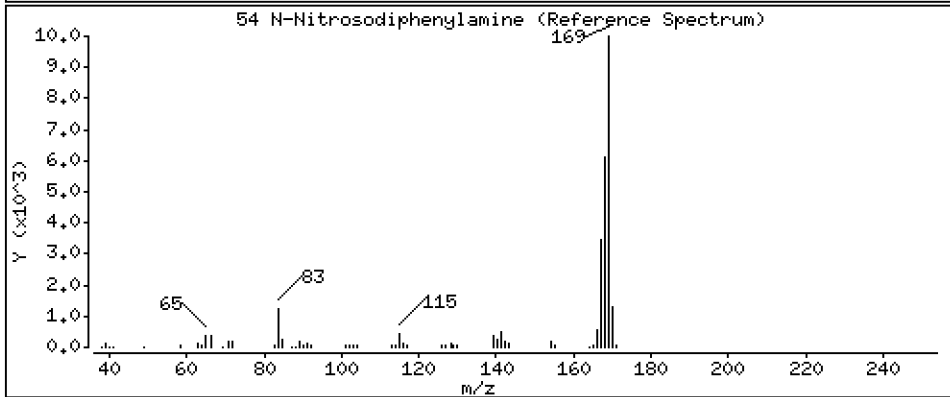
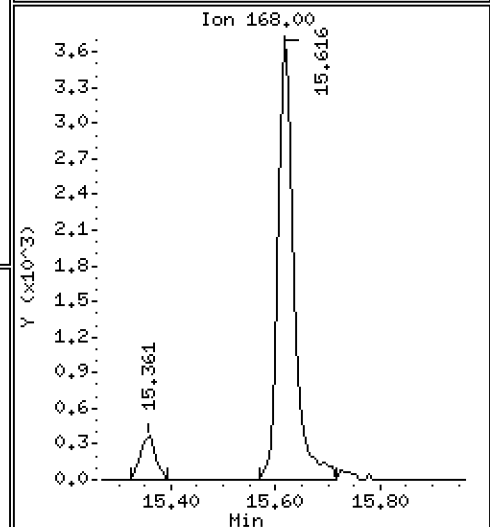
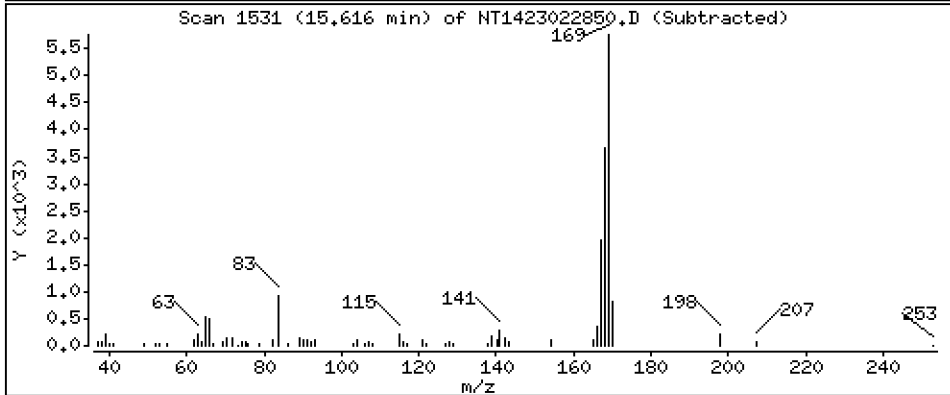
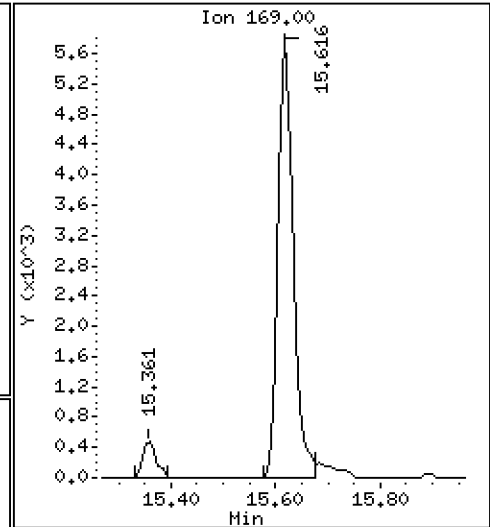
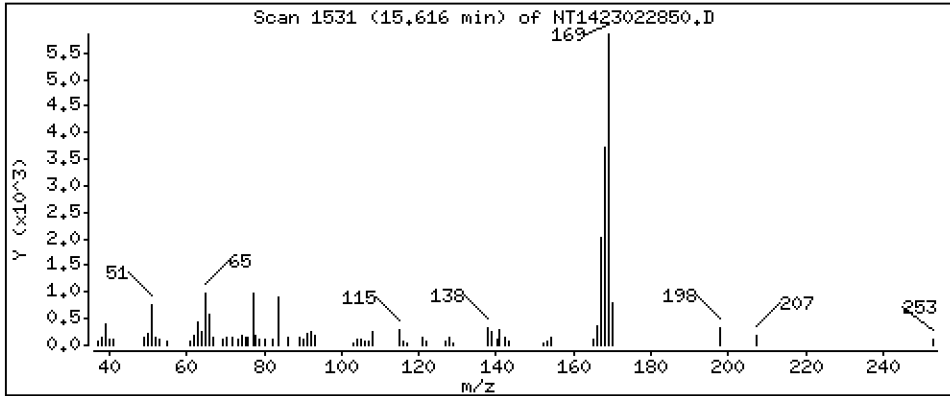
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

54 N-Nitrosodiphenylamine

Concentration: 0,2165 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

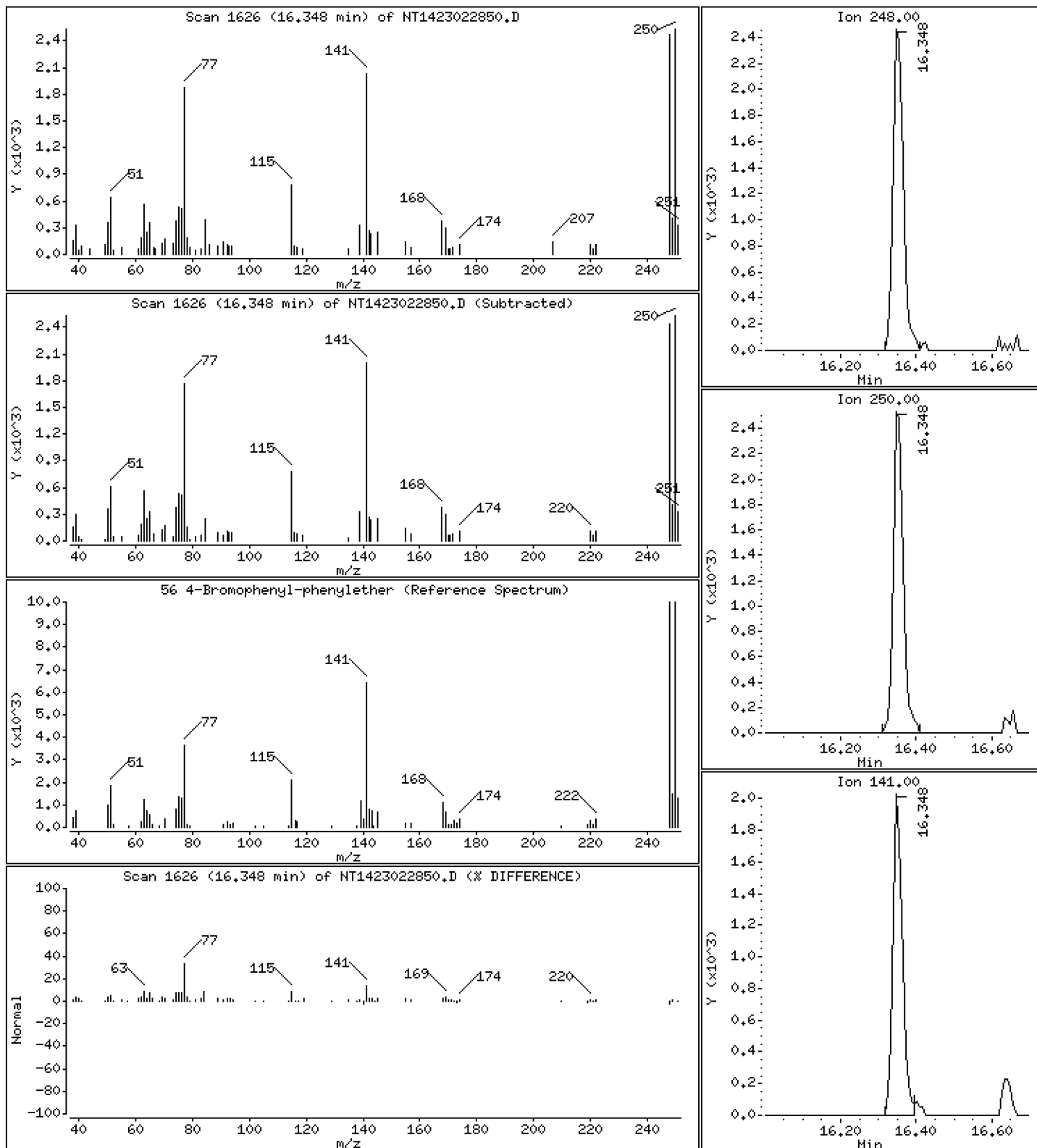
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 0,1925 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

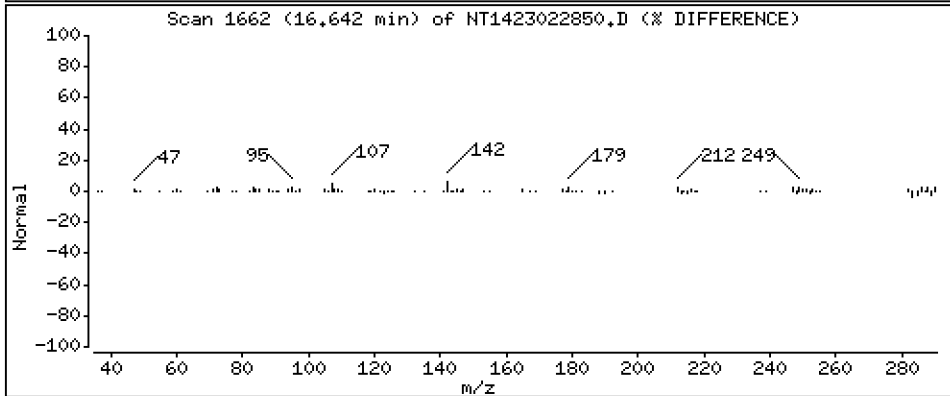
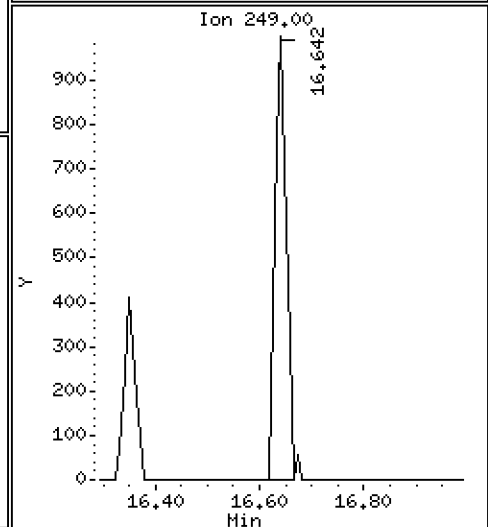
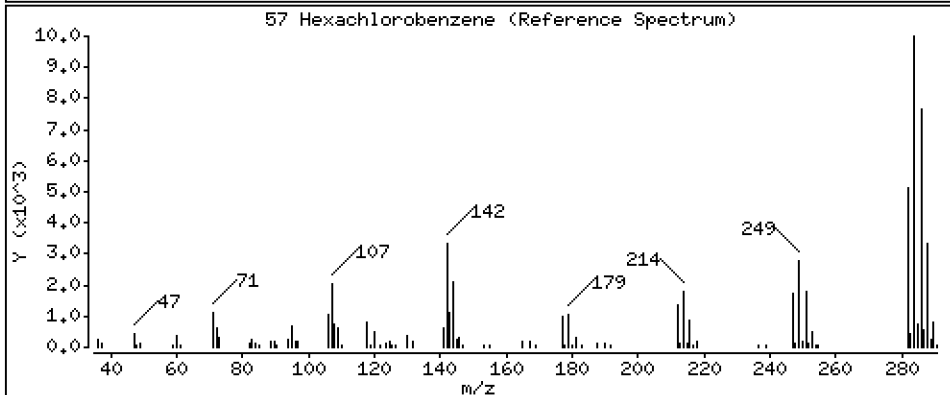
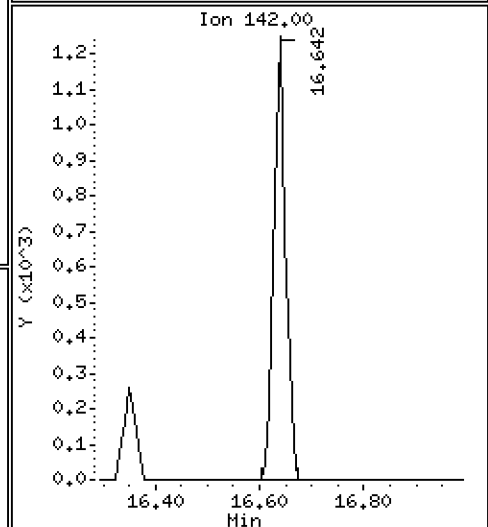
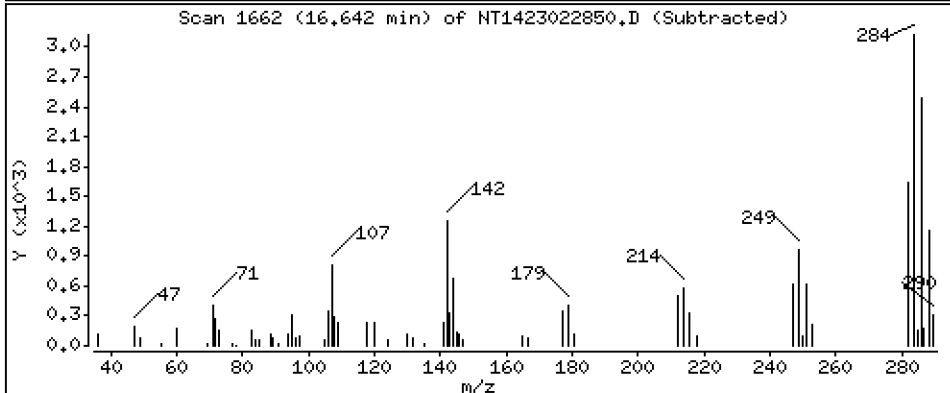
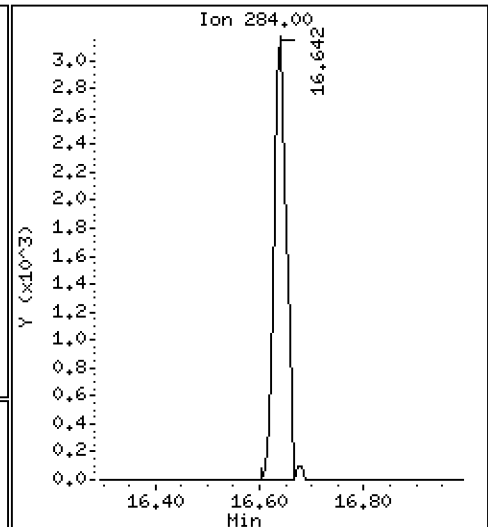
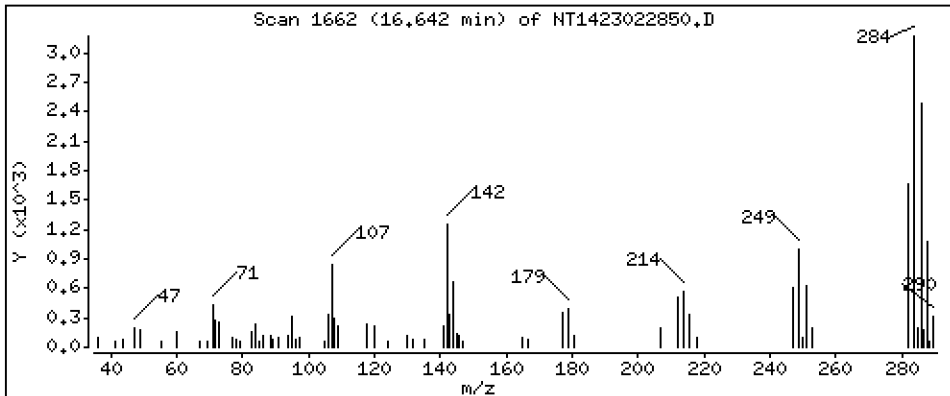
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

57 Hexachlorobenzene

Concentration: 0.2014 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

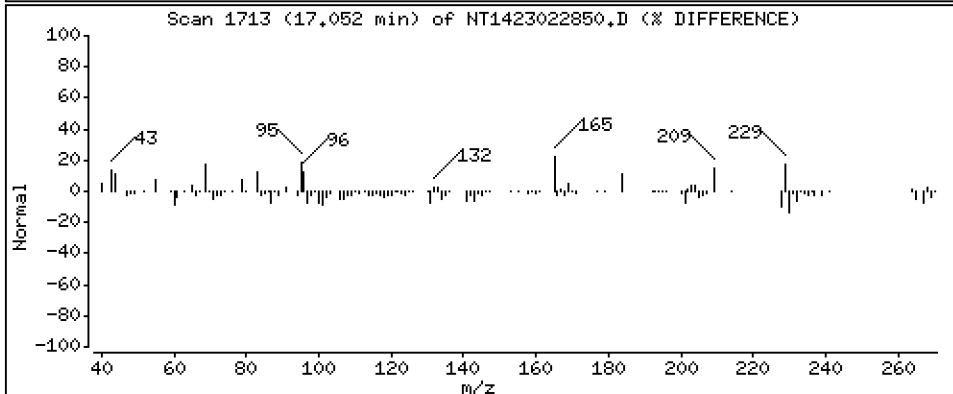
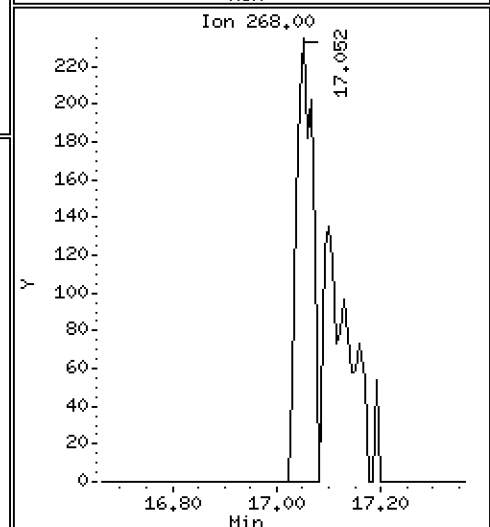
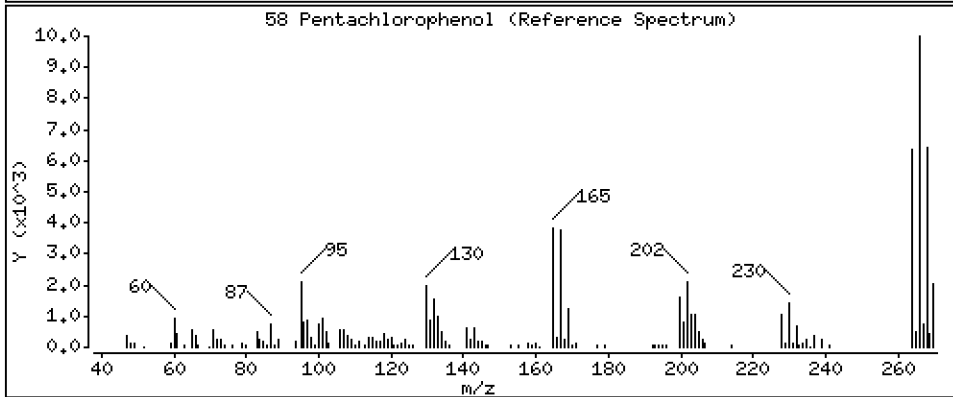
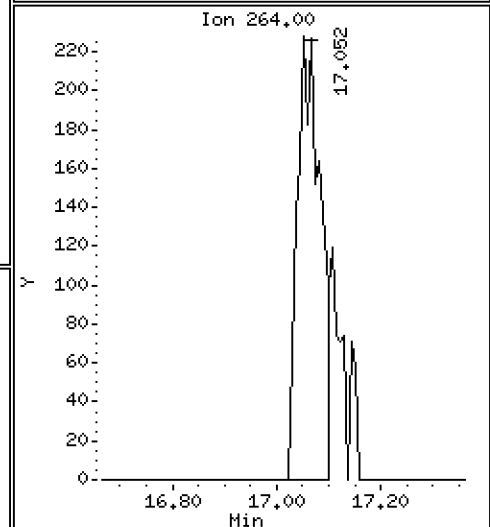
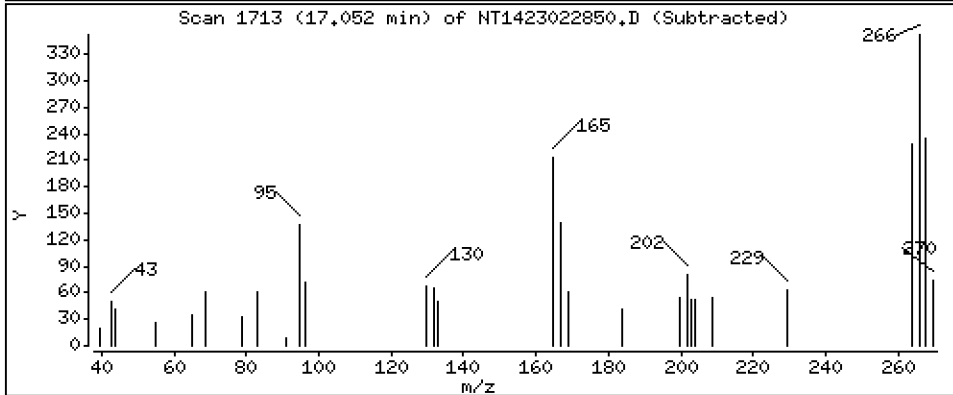
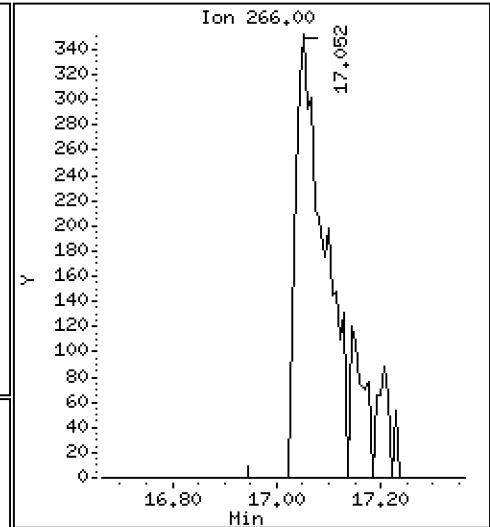
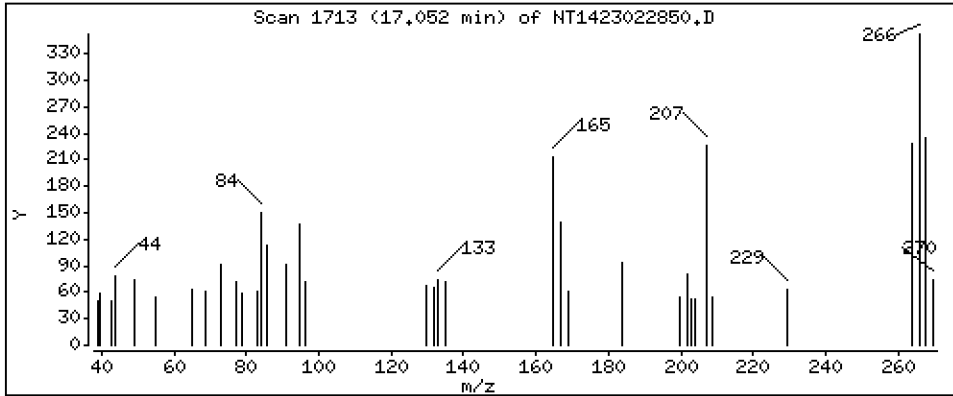
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 0,1450 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

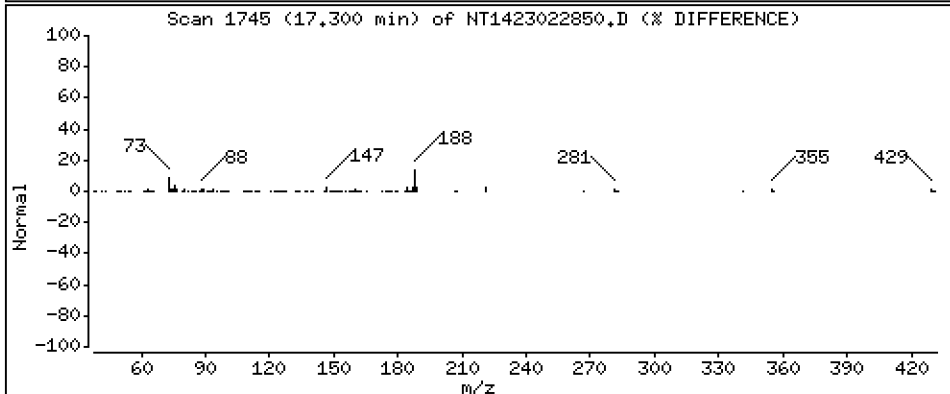
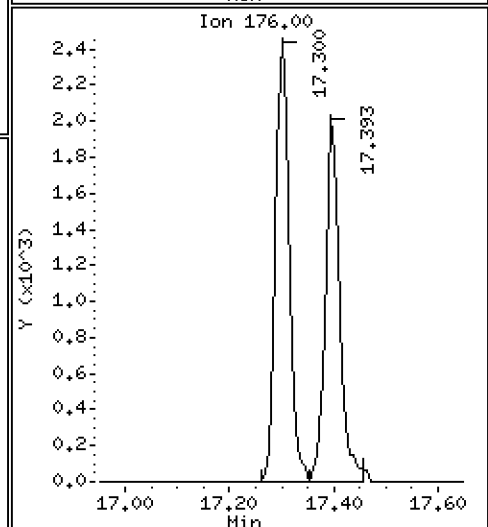
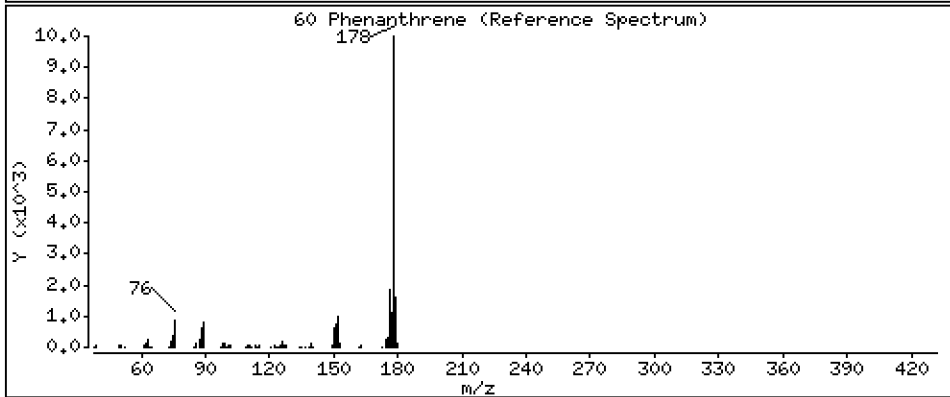
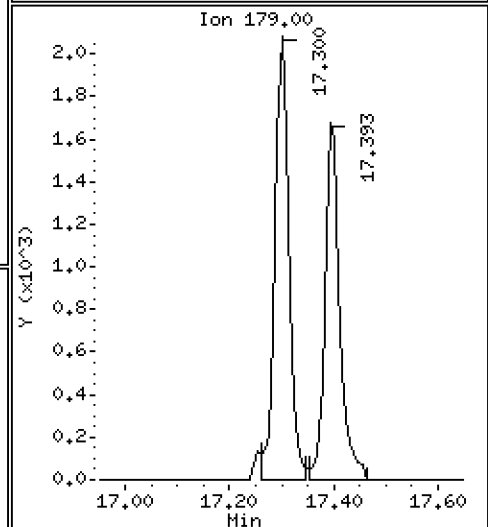
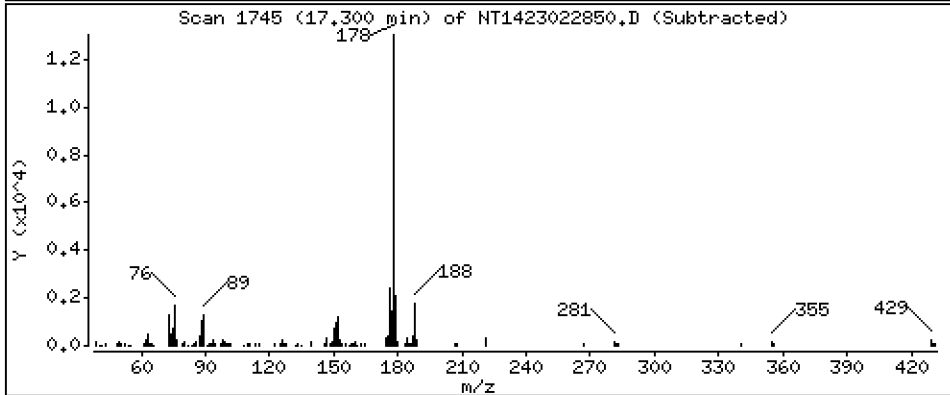
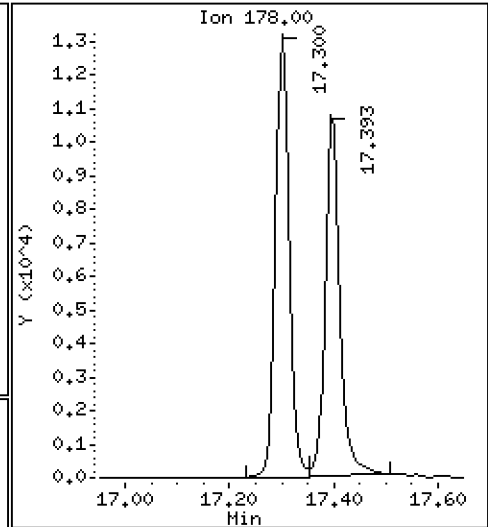
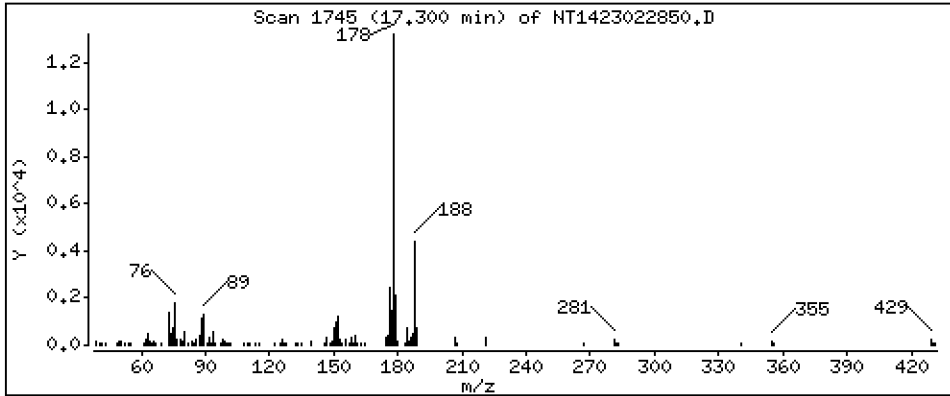
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 0,2104 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

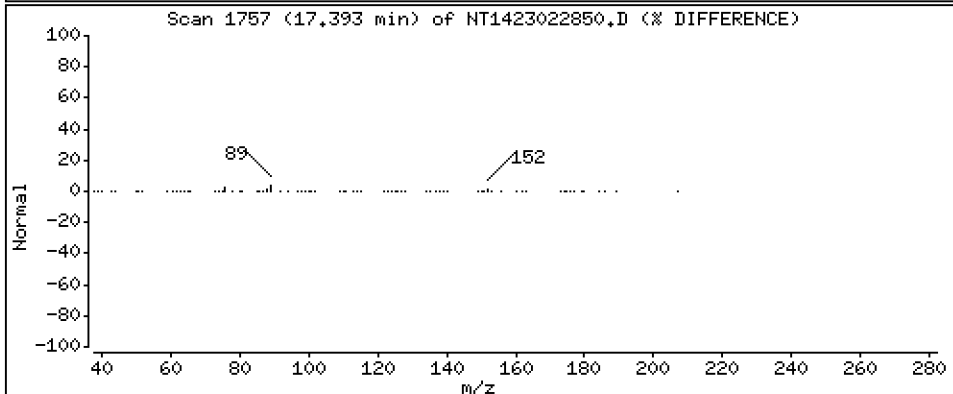
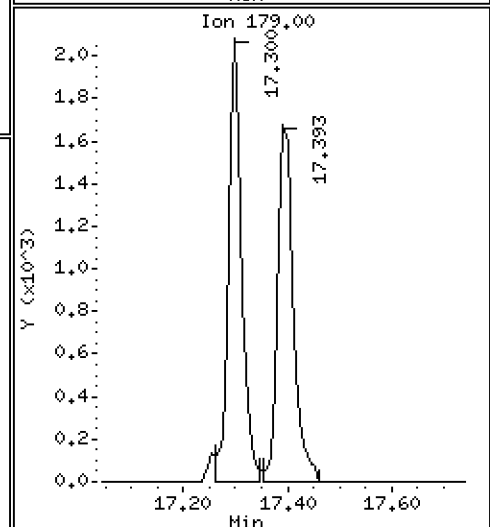
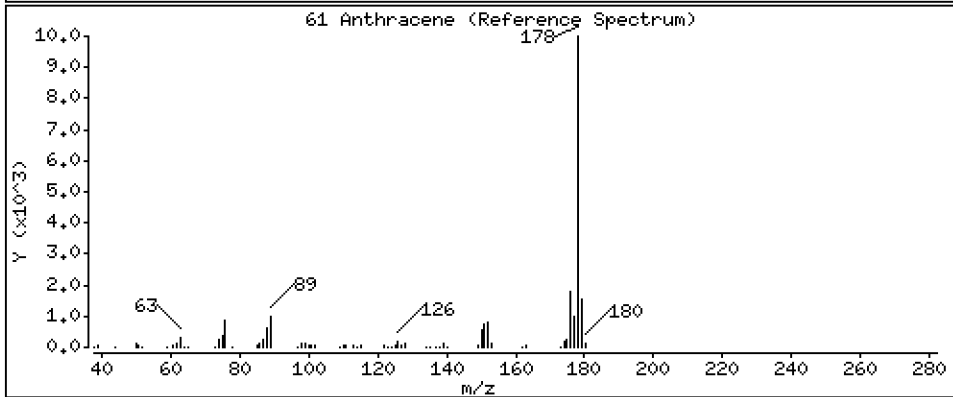
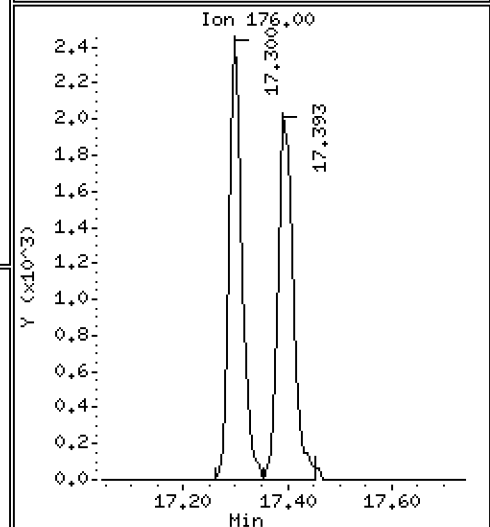
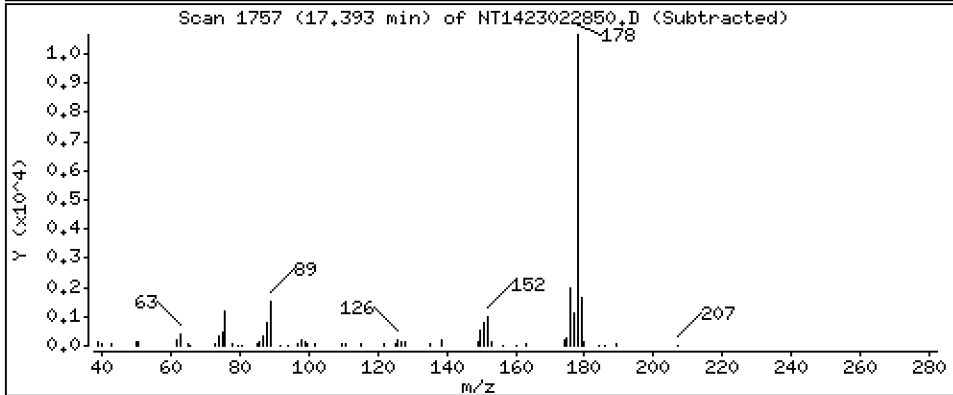
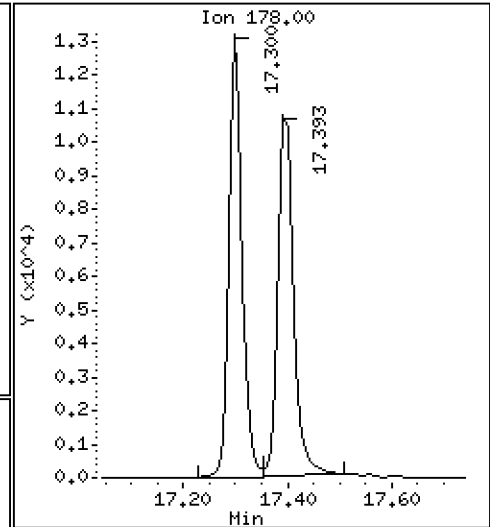
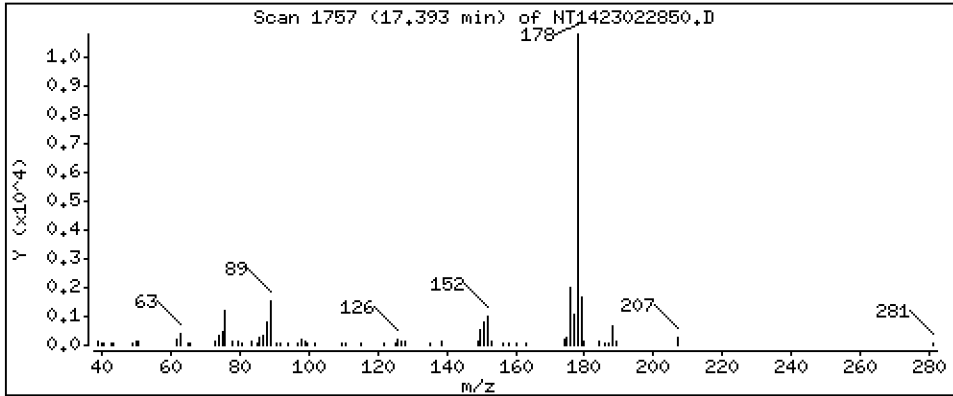
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 0,2047 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

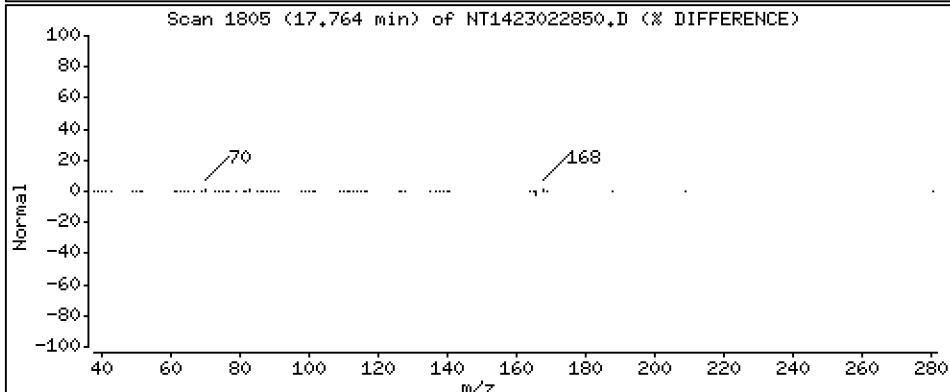
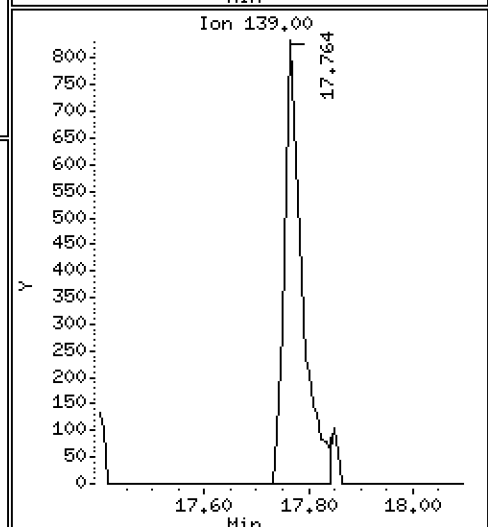
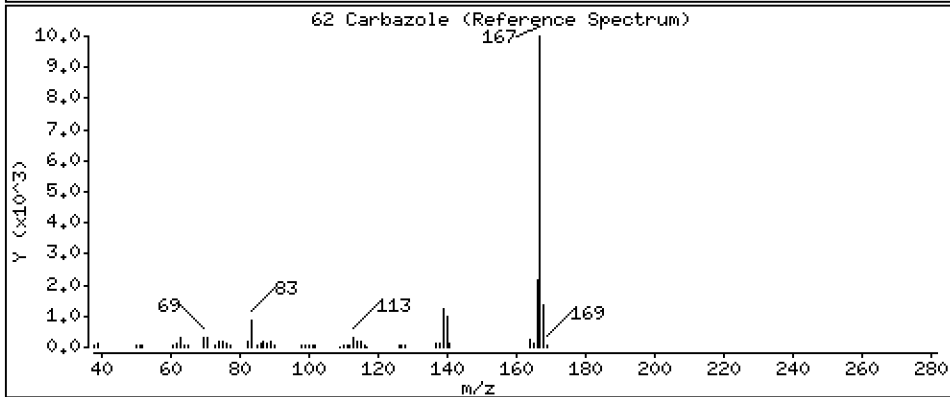
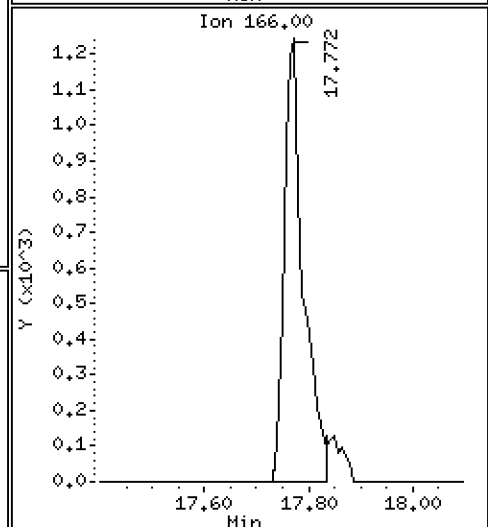
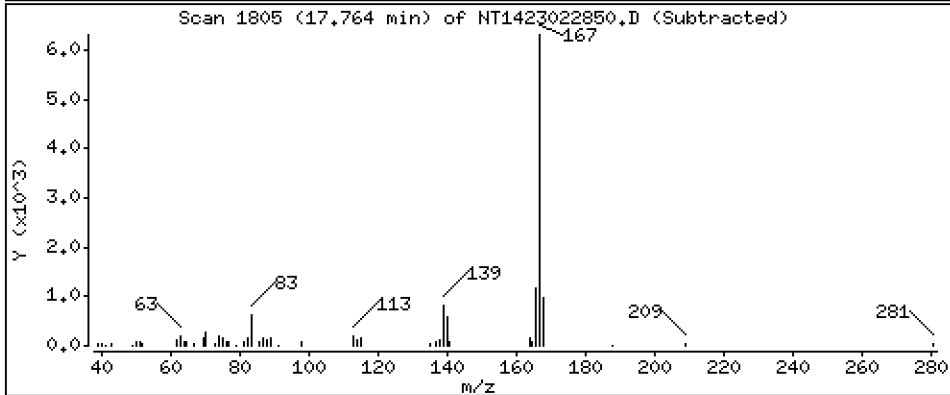
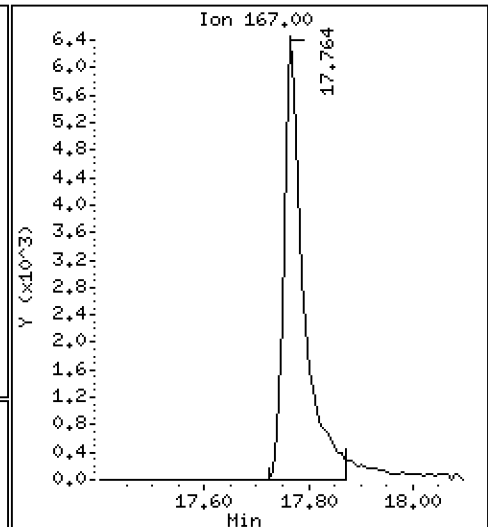
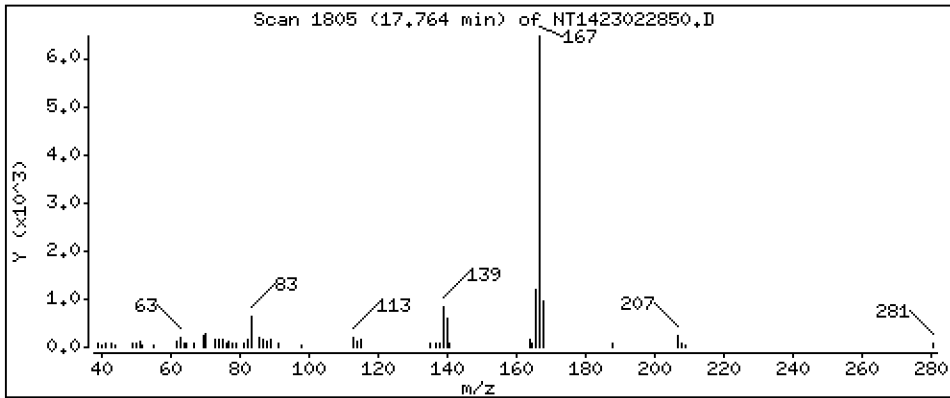
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 0,1876 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

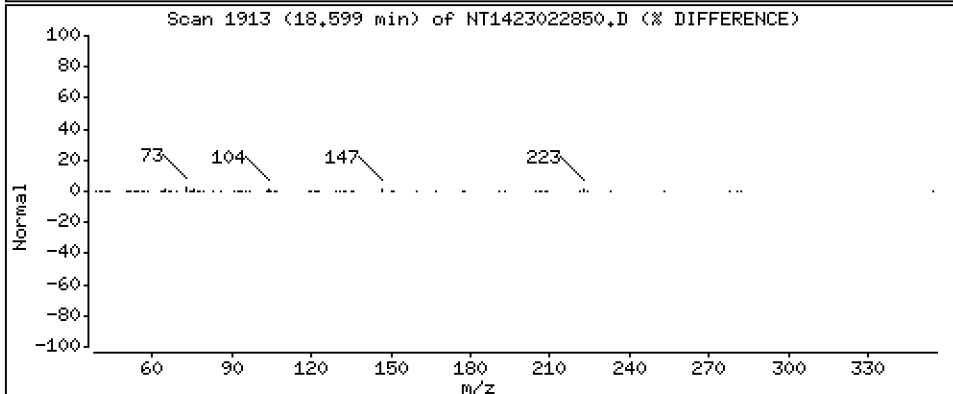
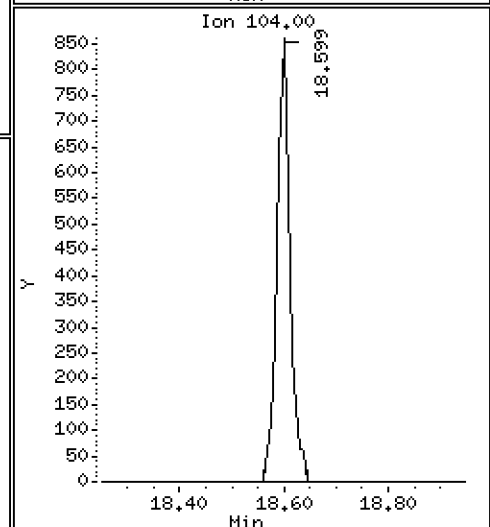
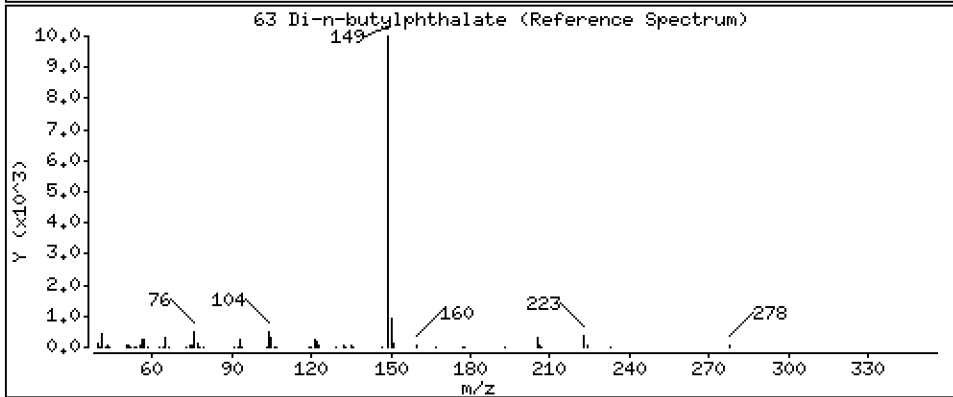
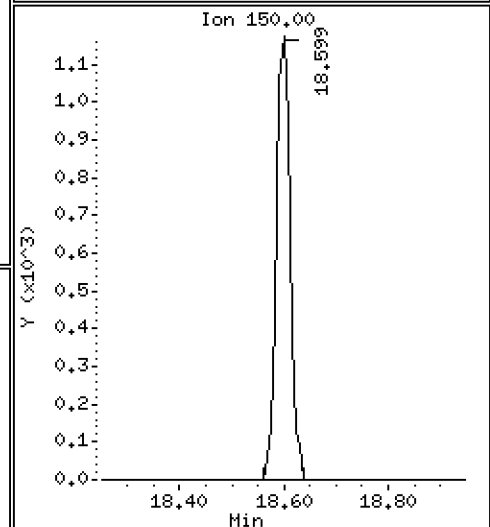
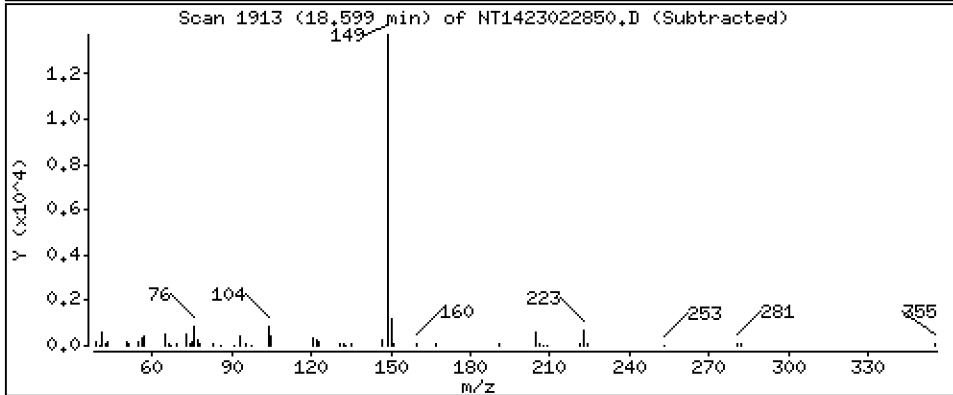
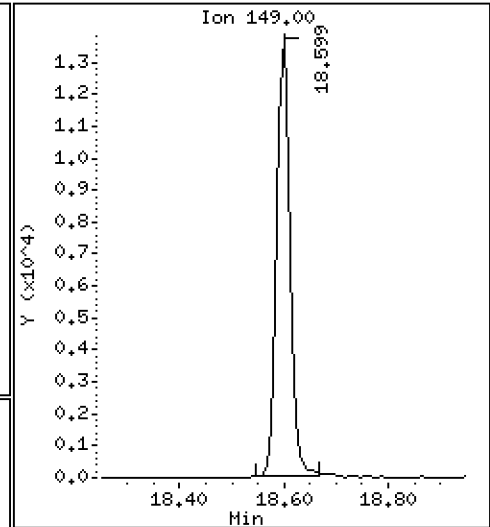
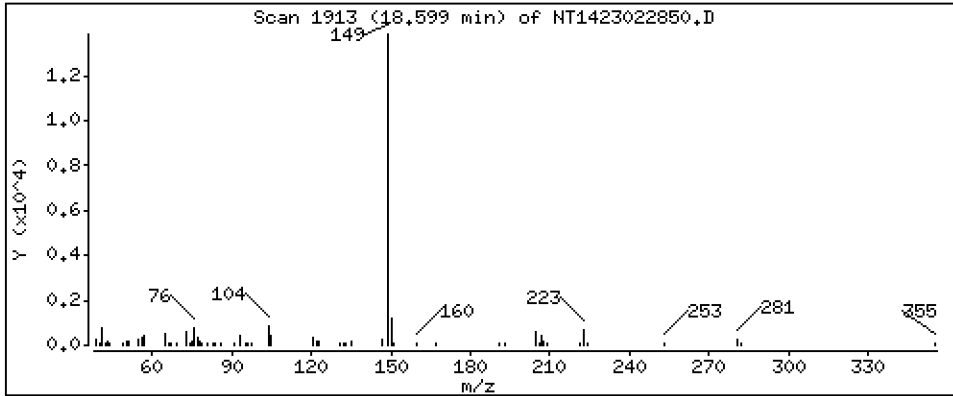
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 0,1934 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

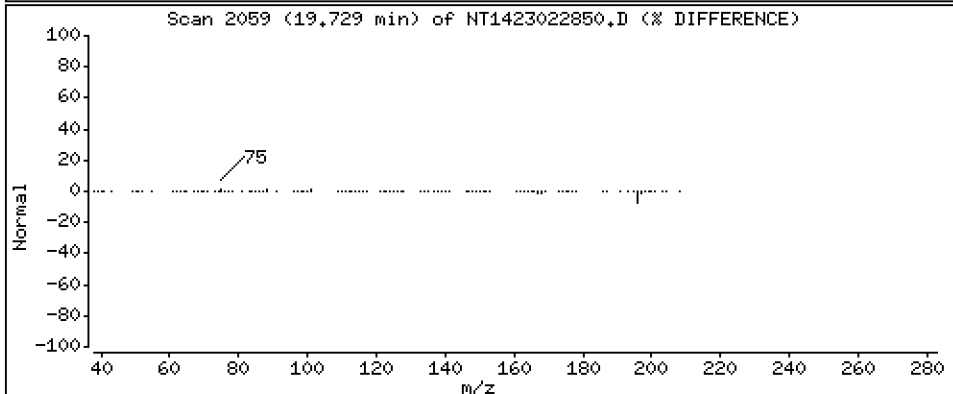
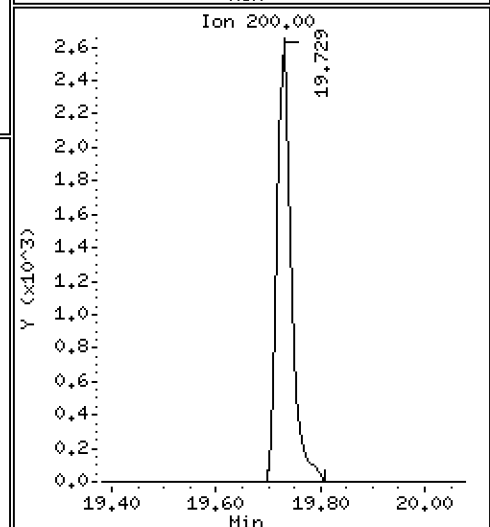
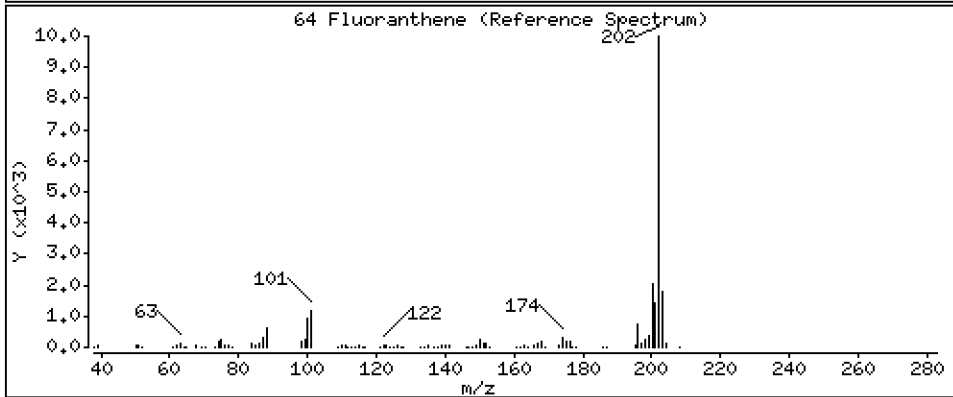
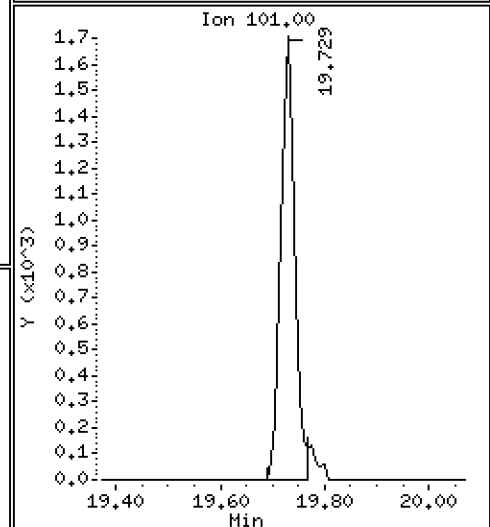
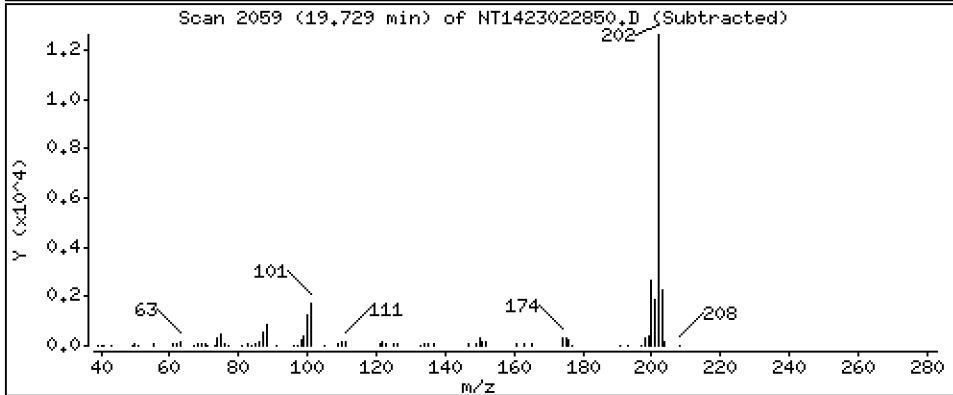
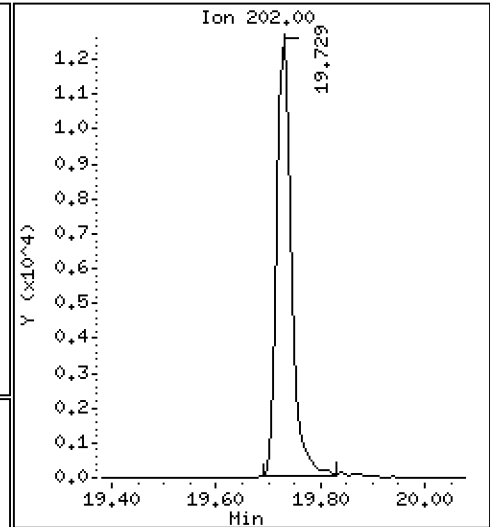
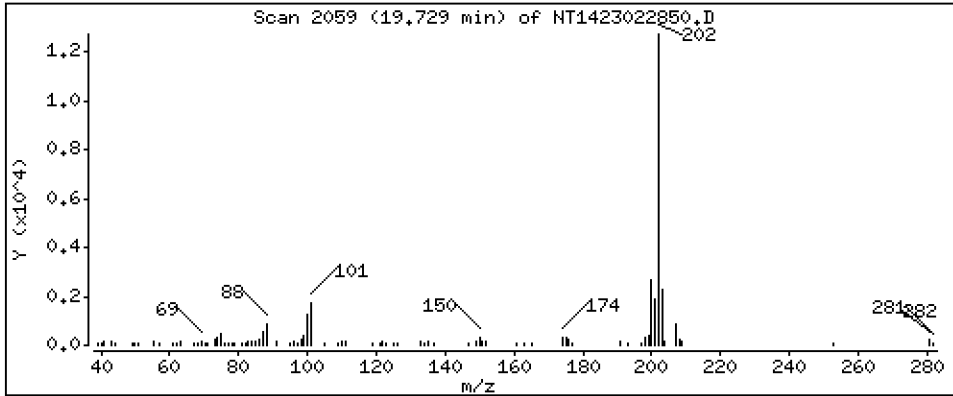
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 0,1763 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

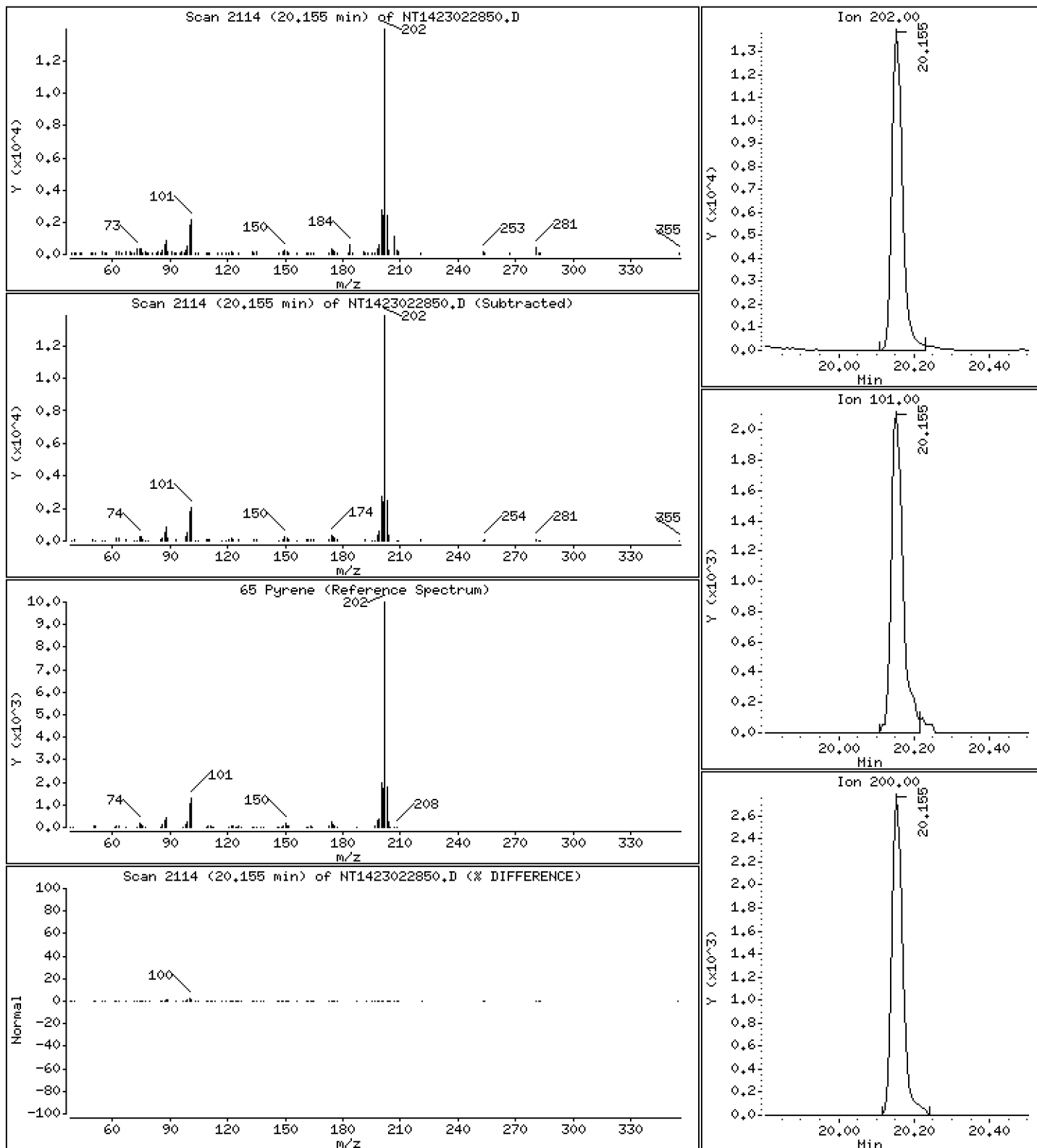
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 0,1838 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

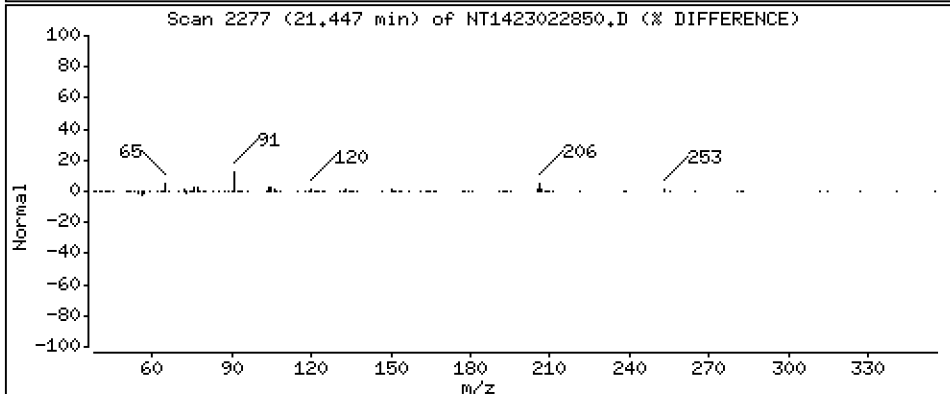
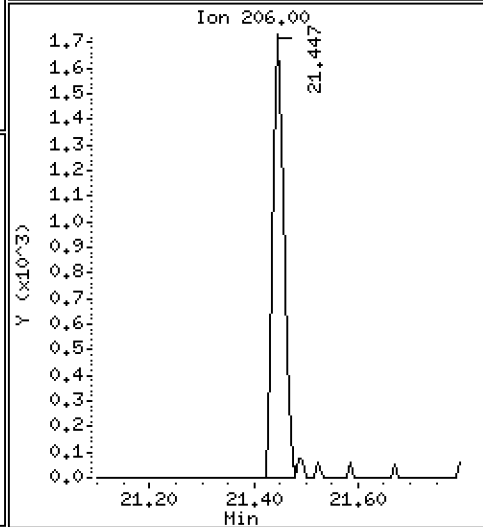
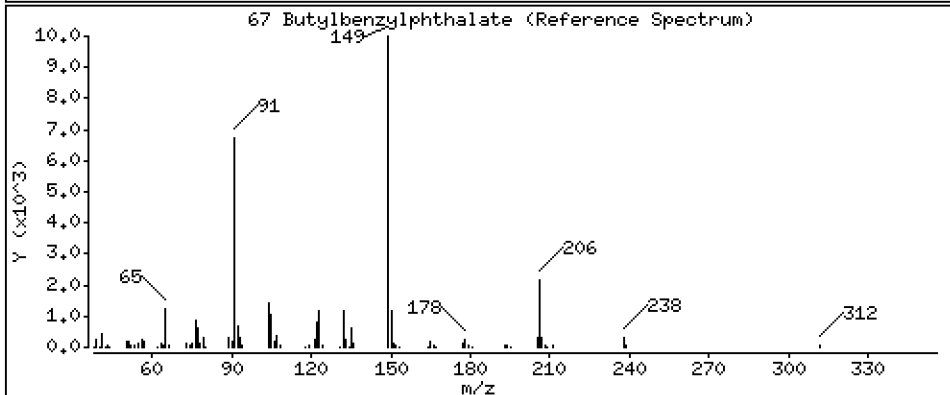
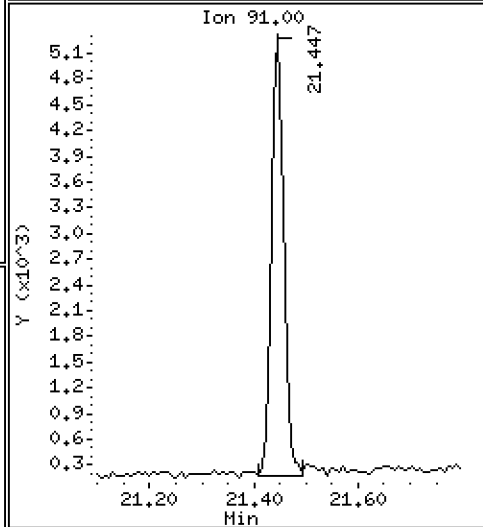
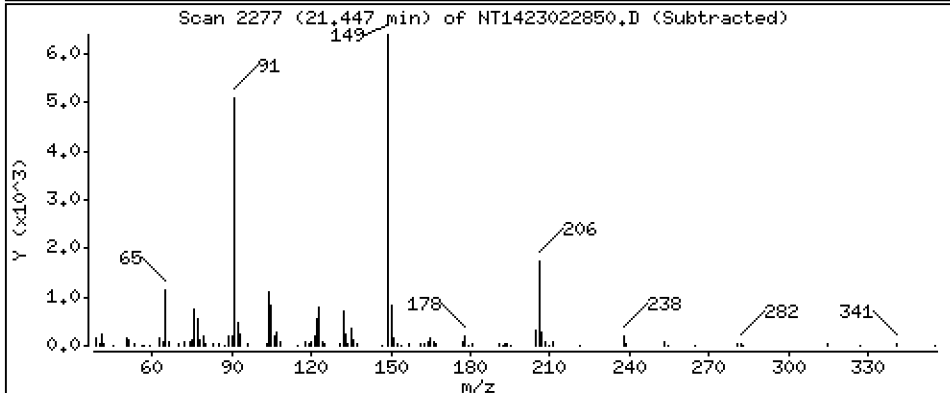
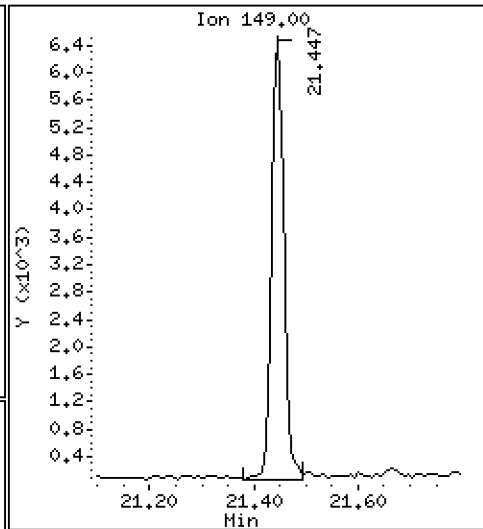
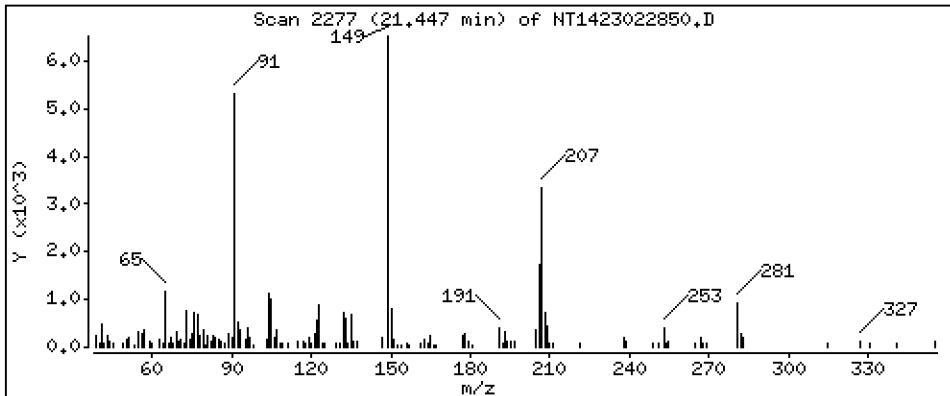
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 0,1999 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

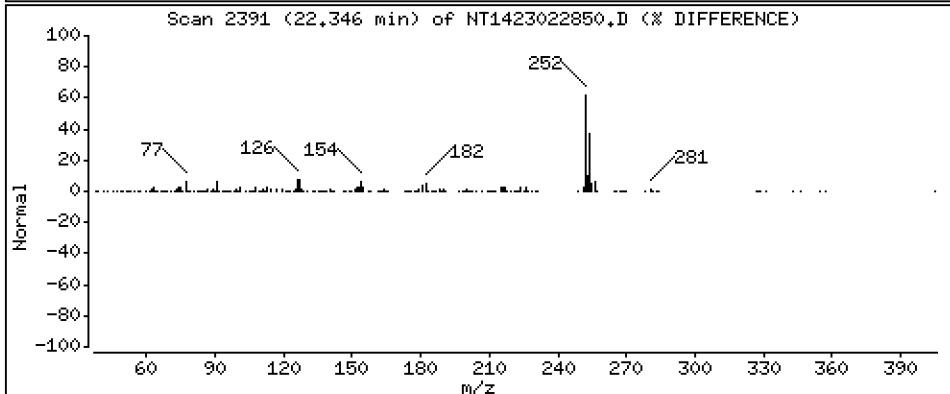
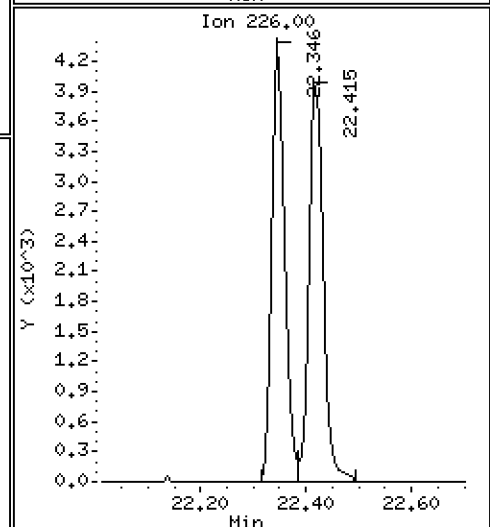
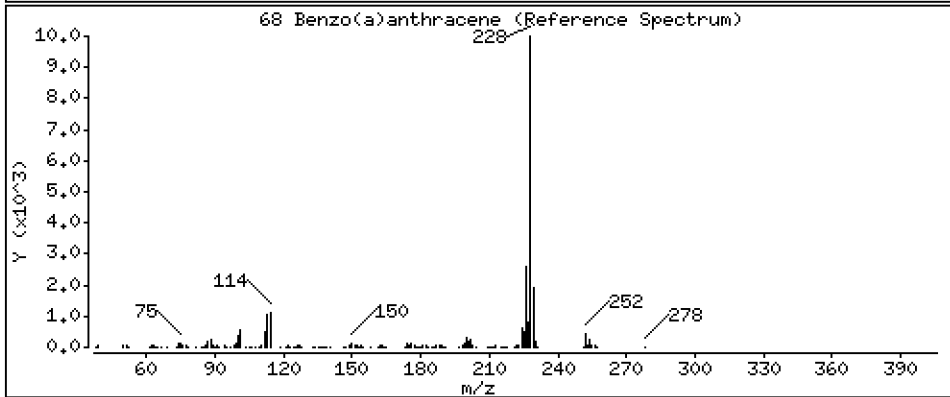
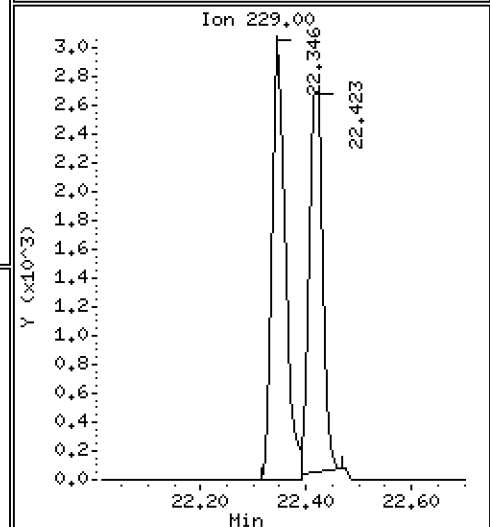
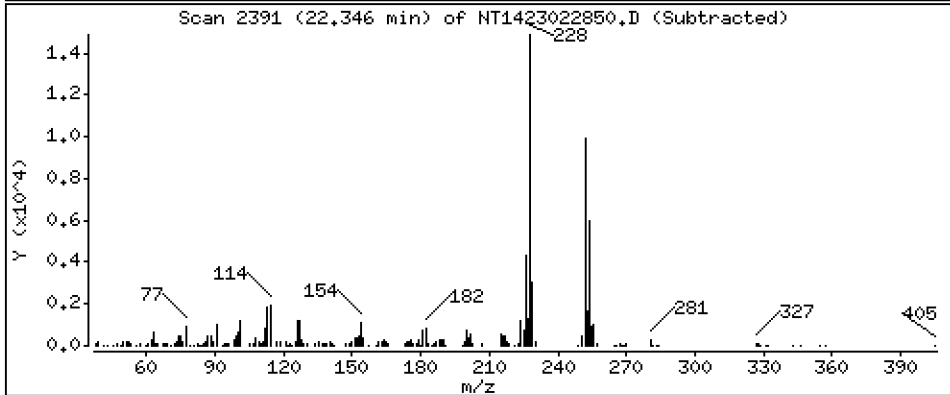
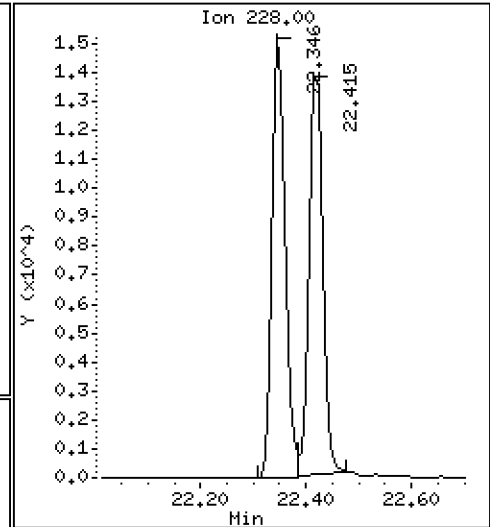
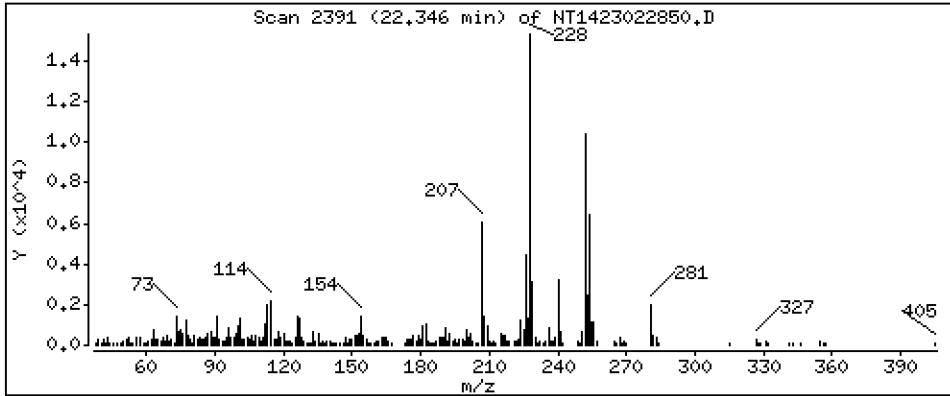
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 0,2206 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

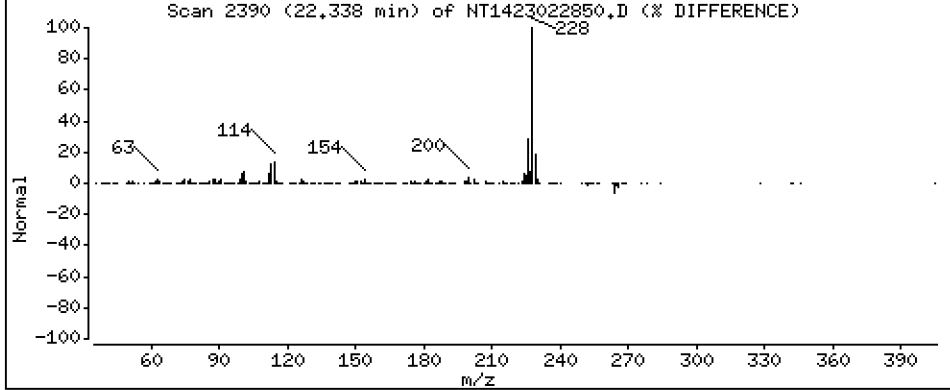
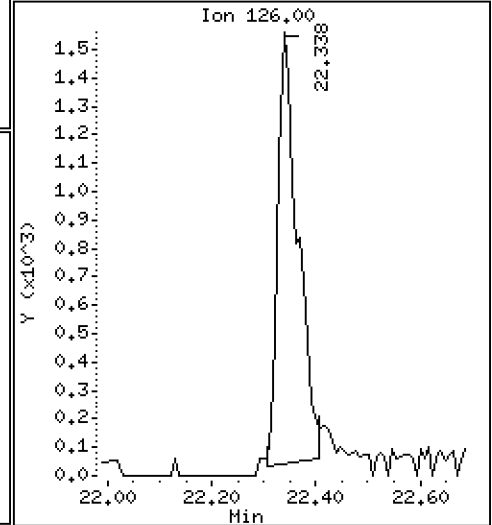
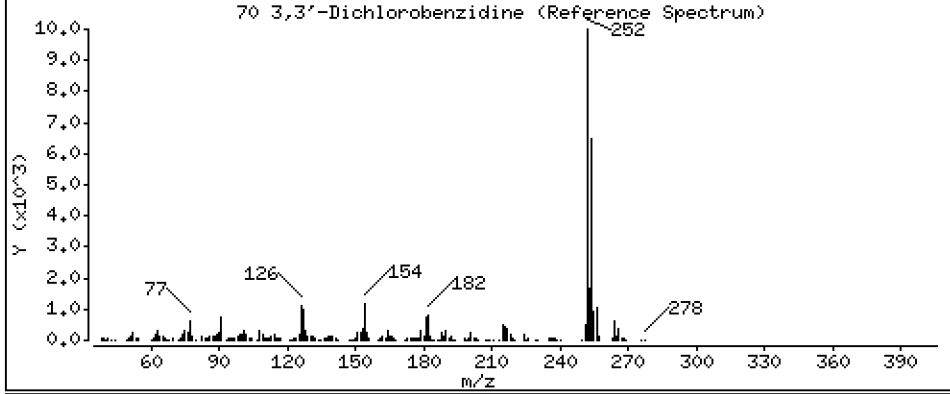
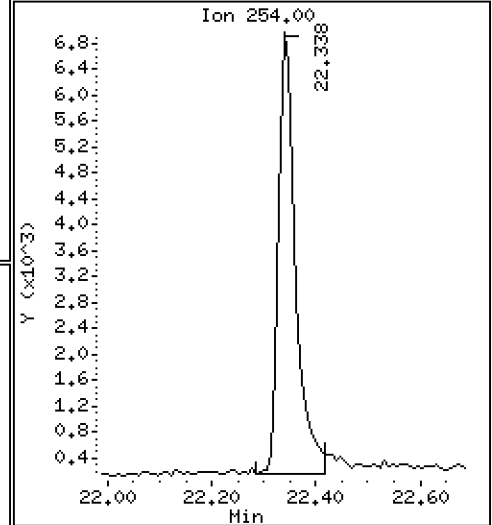
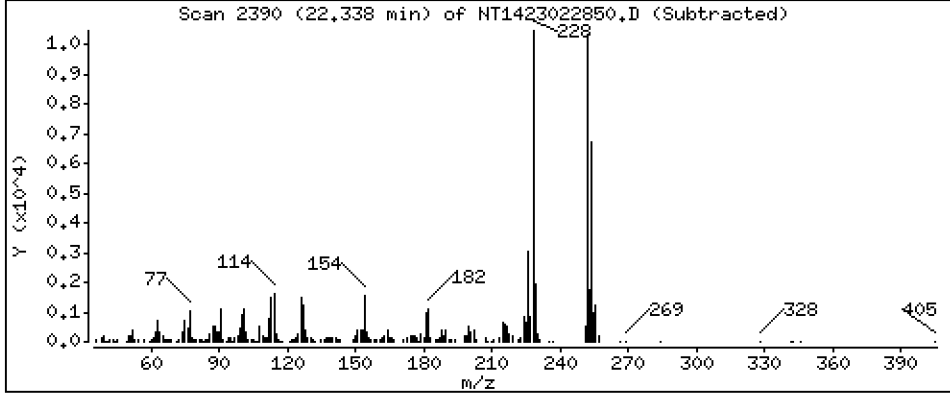
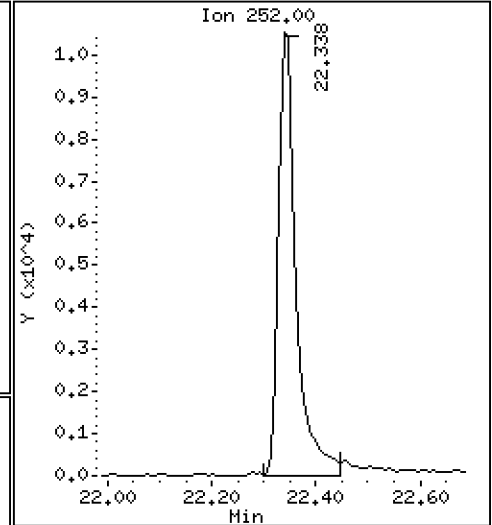
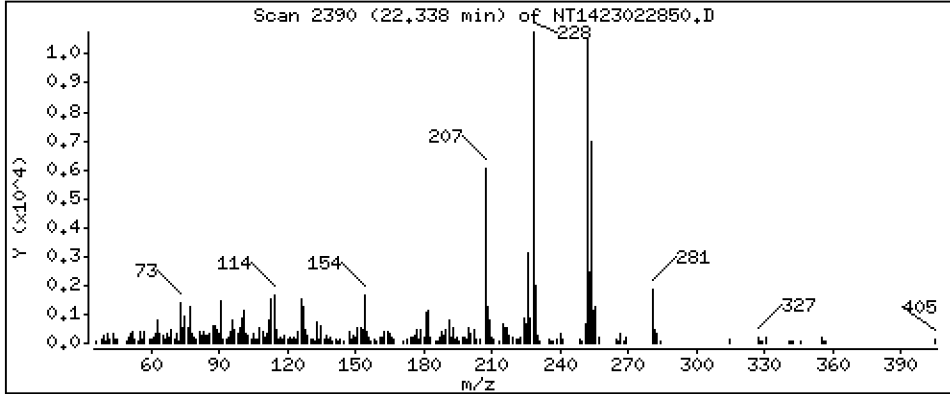
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

70 3,3'-Dichlorobenzidine

Concentration: 0,7172 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

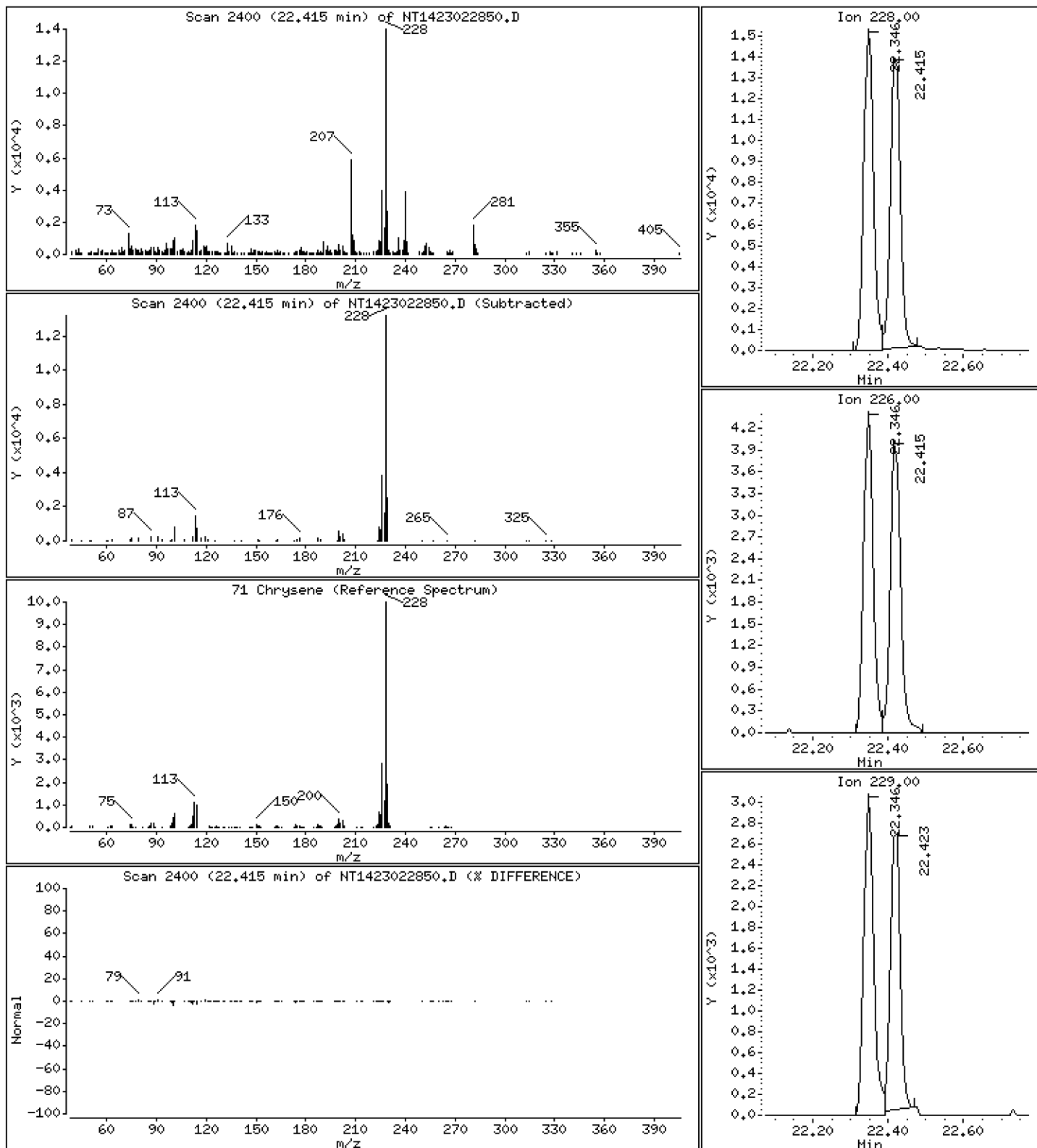
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 0,2125 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

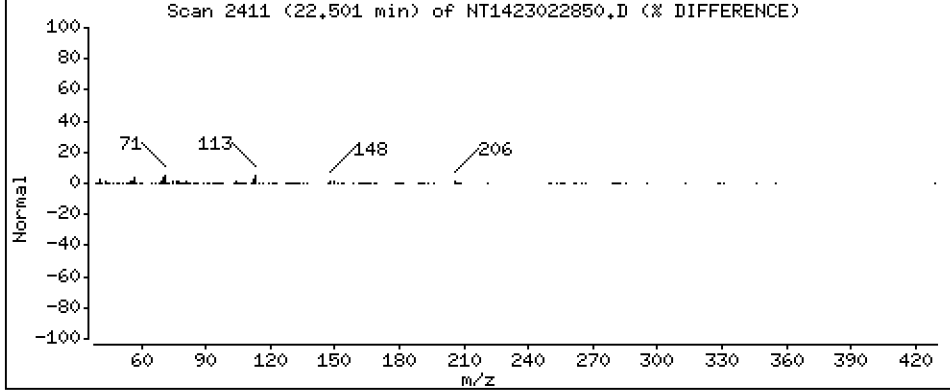
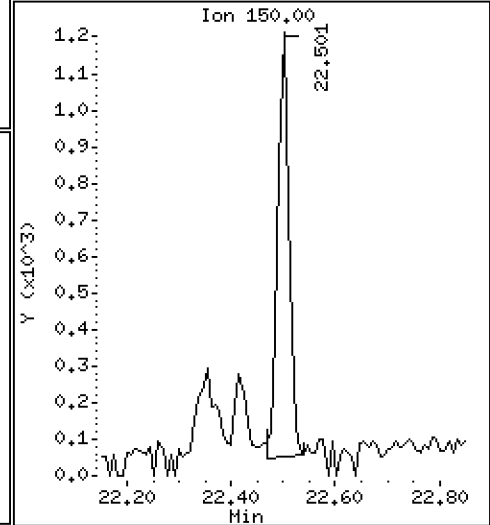
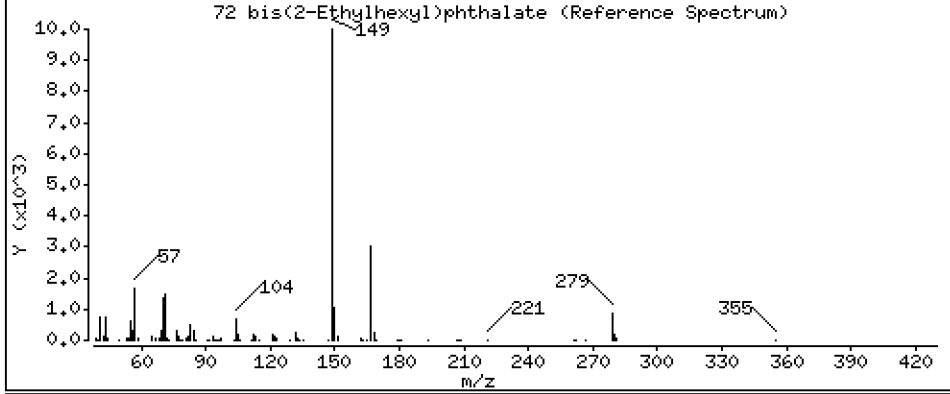
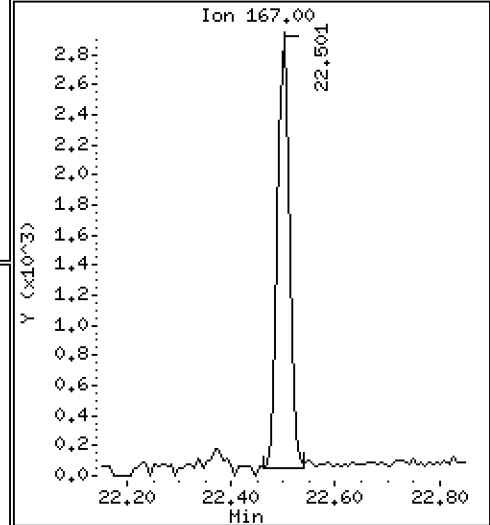
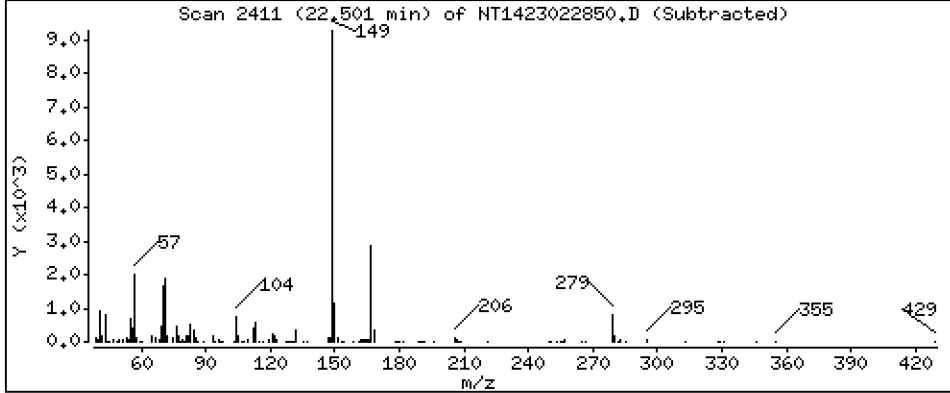
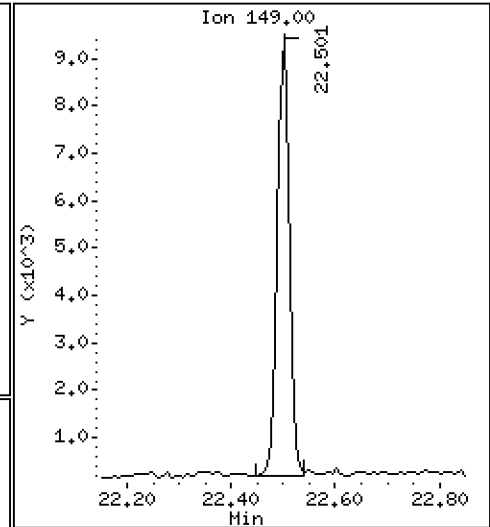
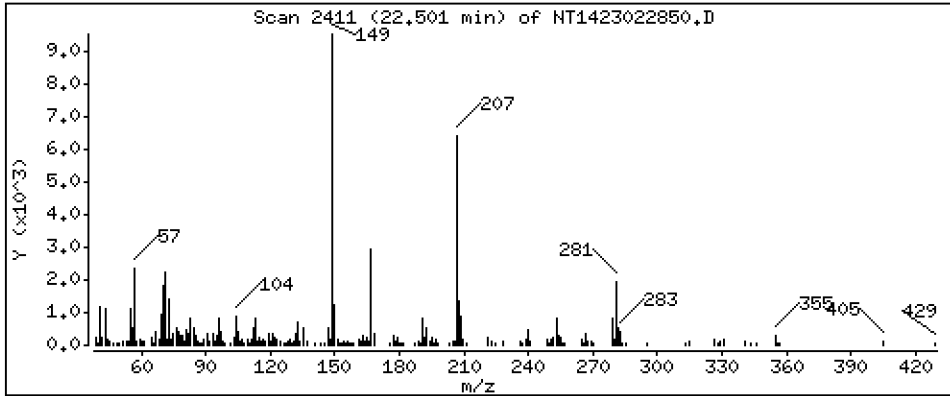
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 0,1812 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

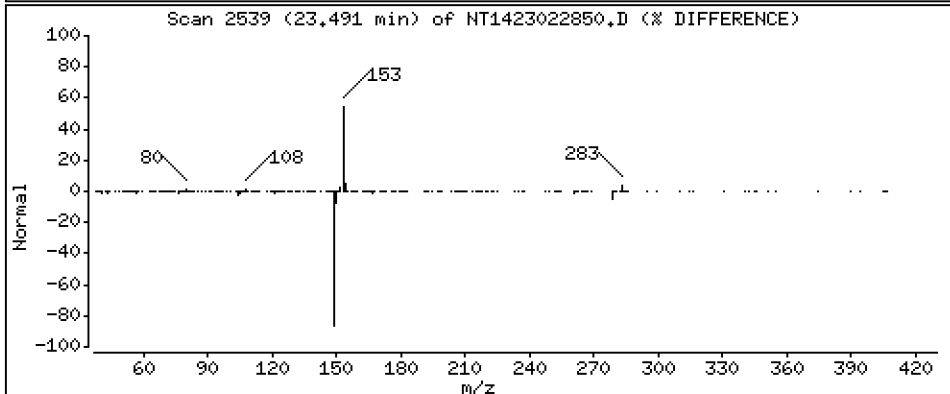
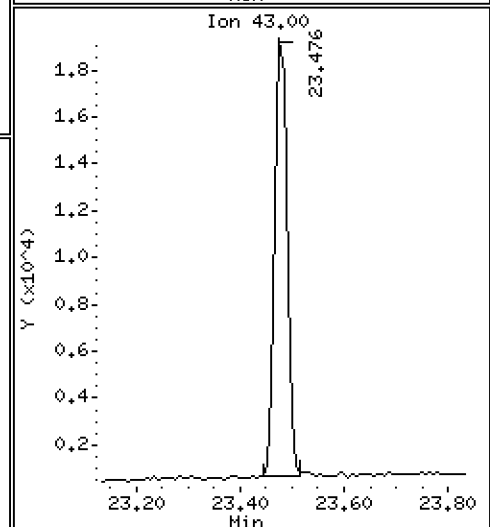
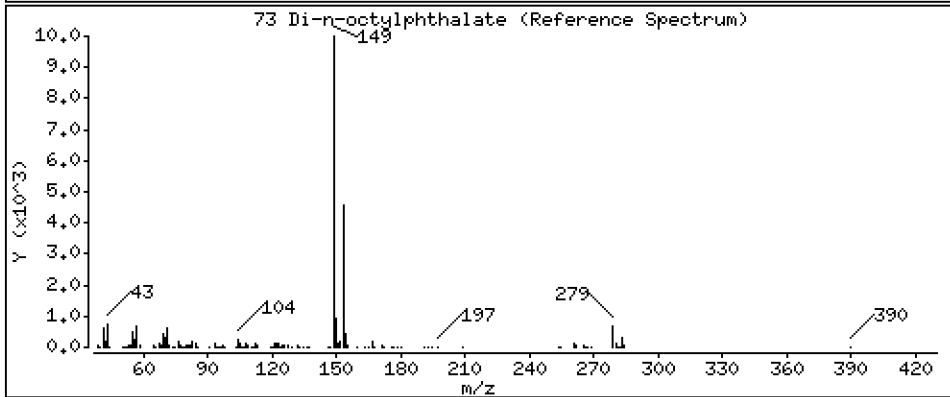
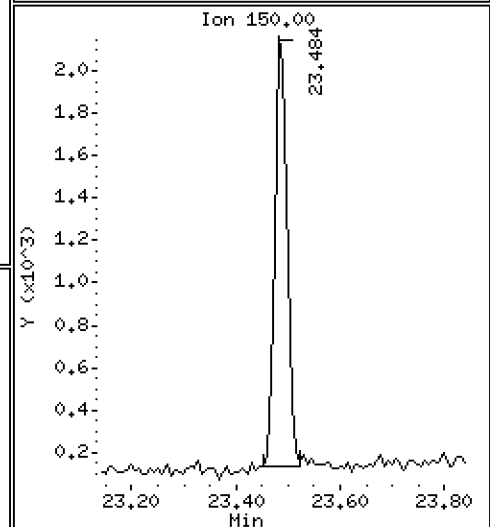
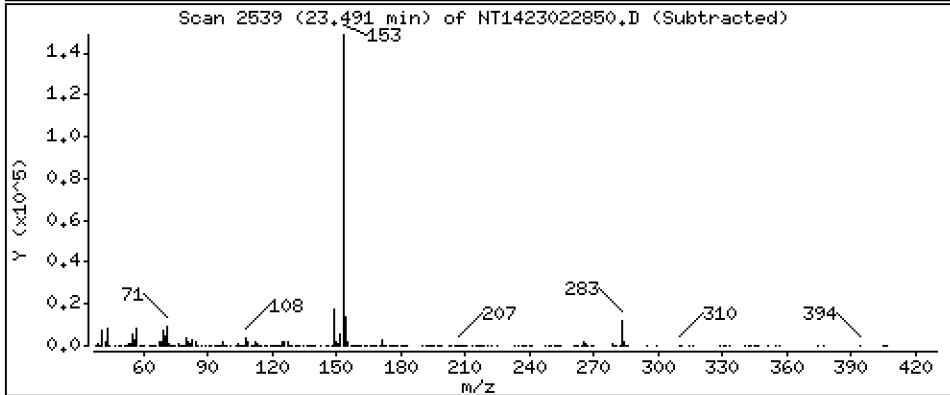
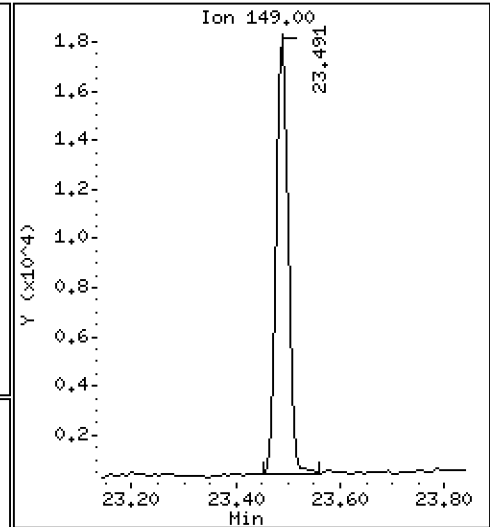
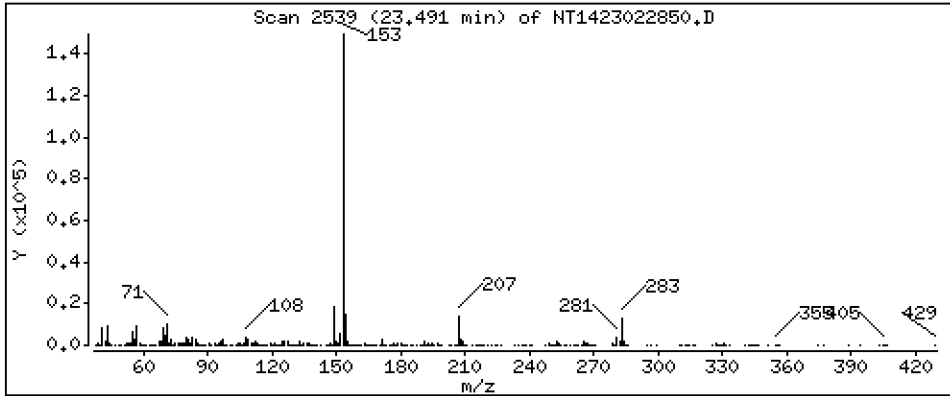
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 0,2059 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

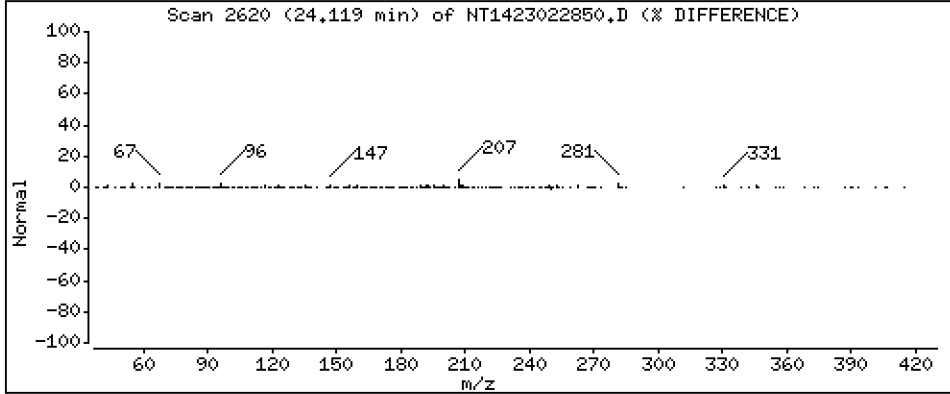
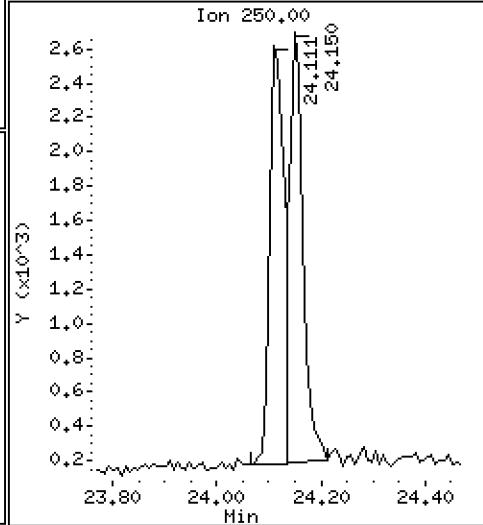
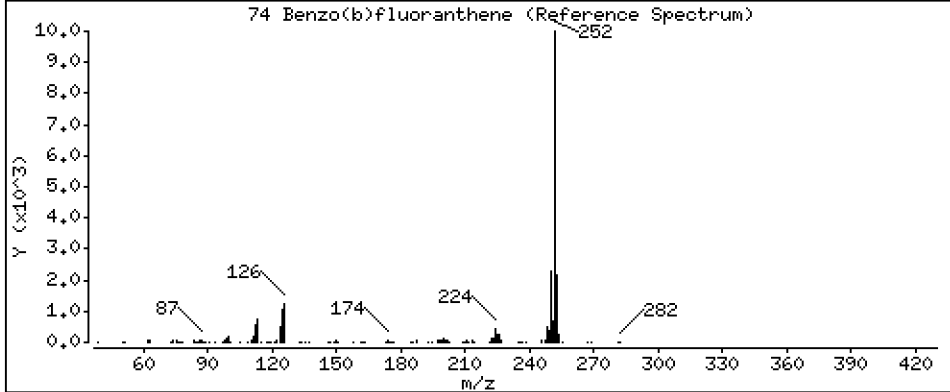
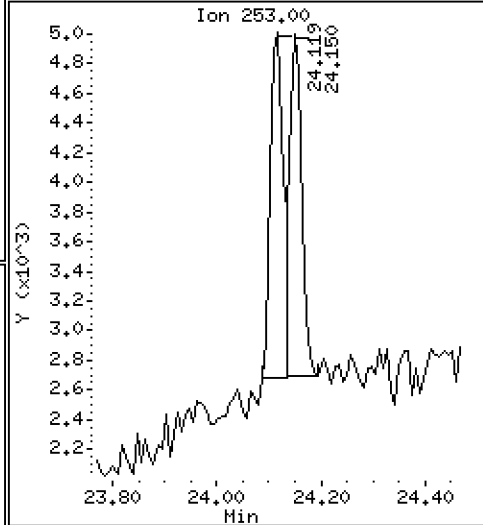
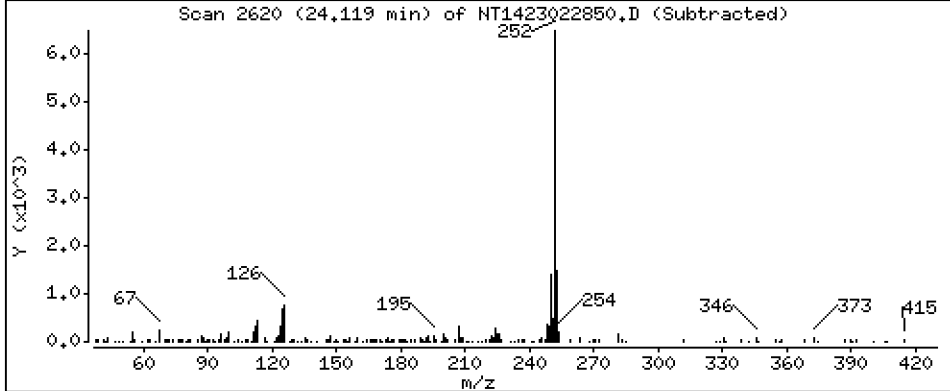
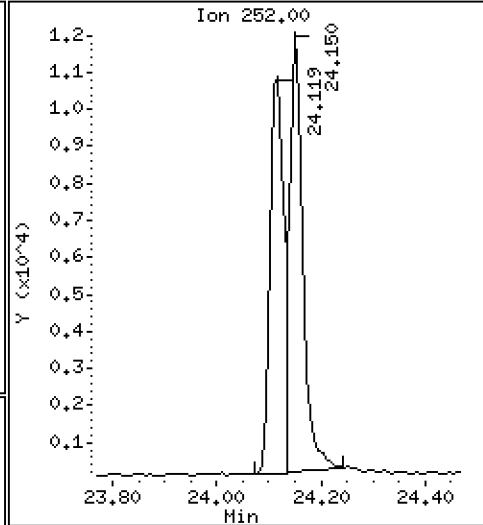
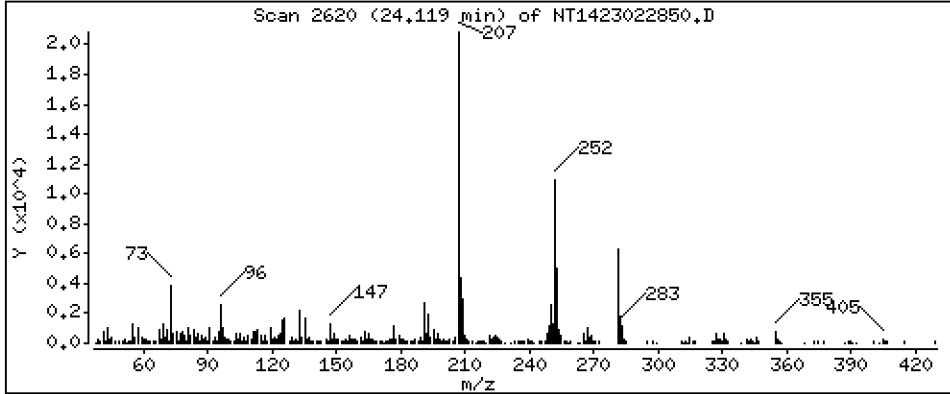
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 0,2502 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

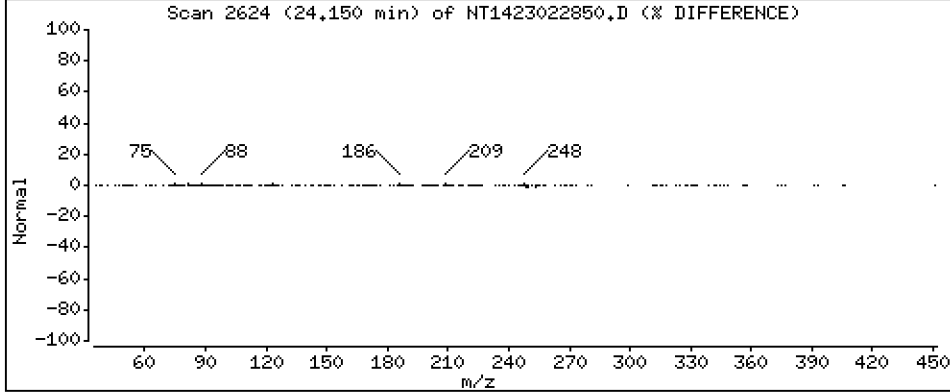
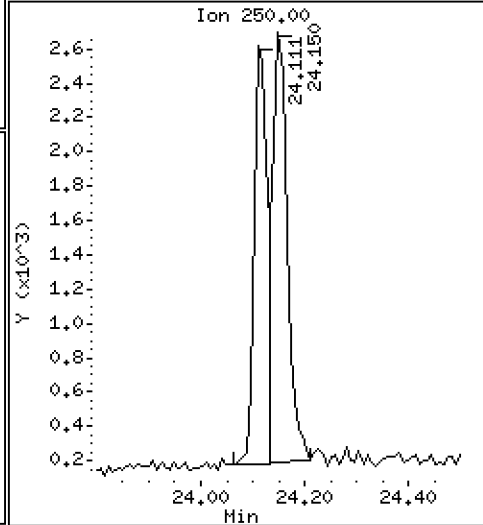
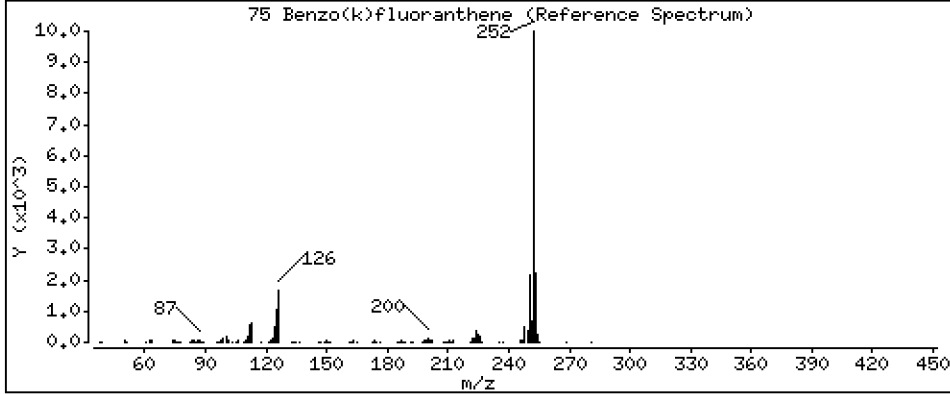
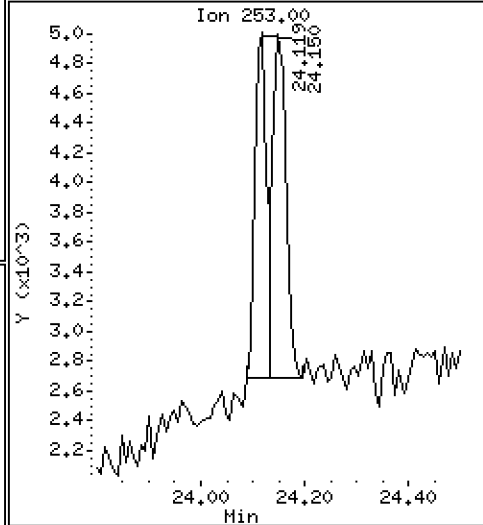
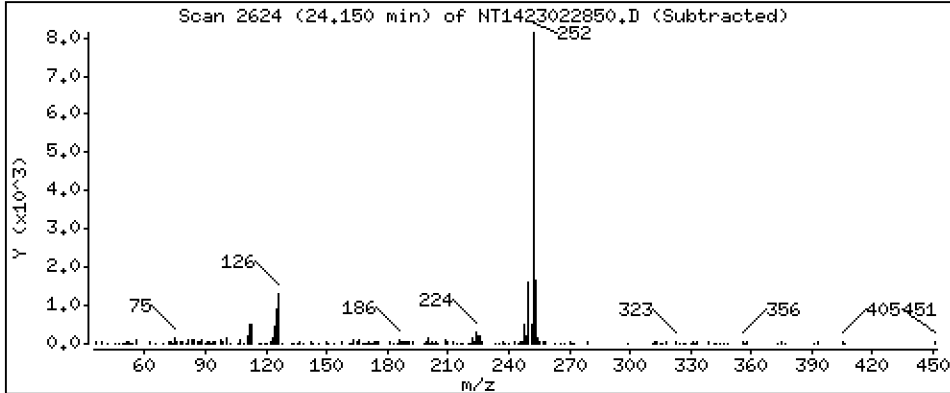
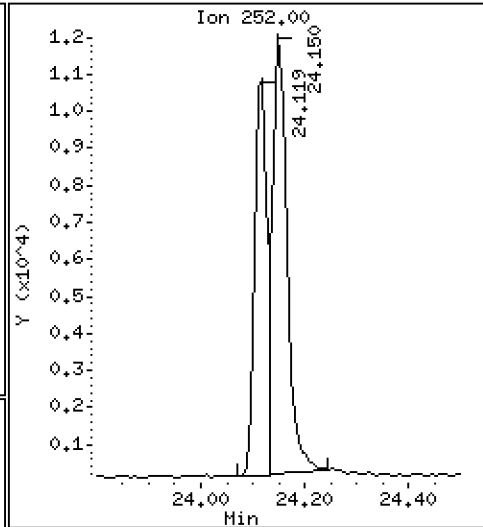
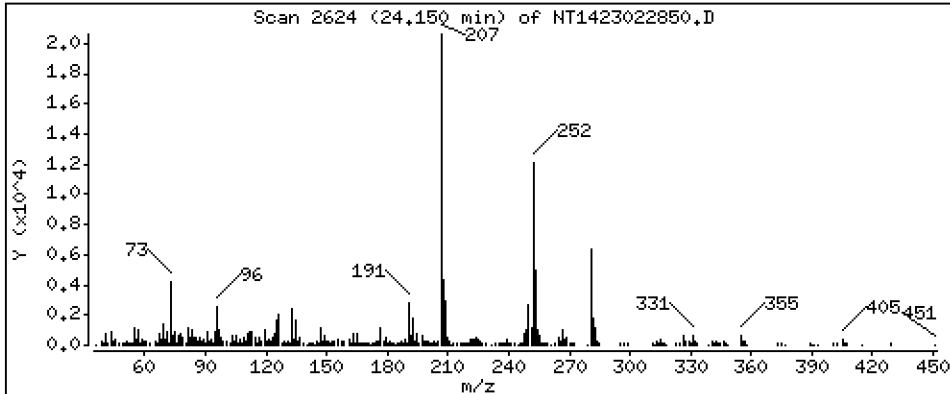
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

75 Benzo(k)fluoranthene

Concentration: 0.2656 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

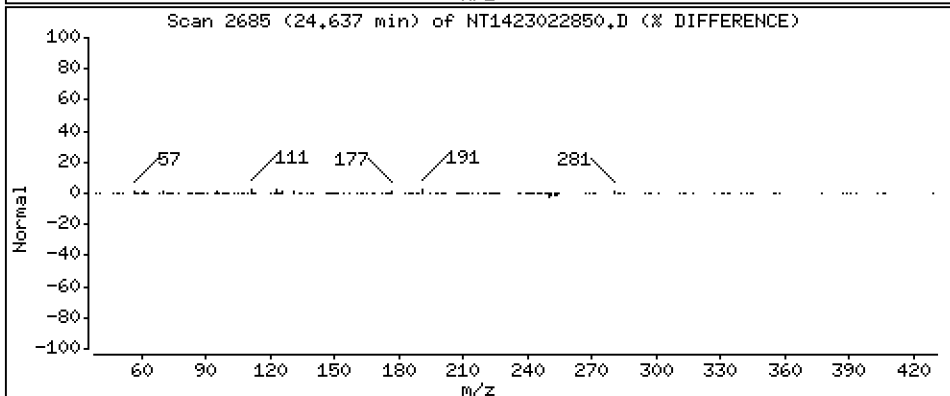
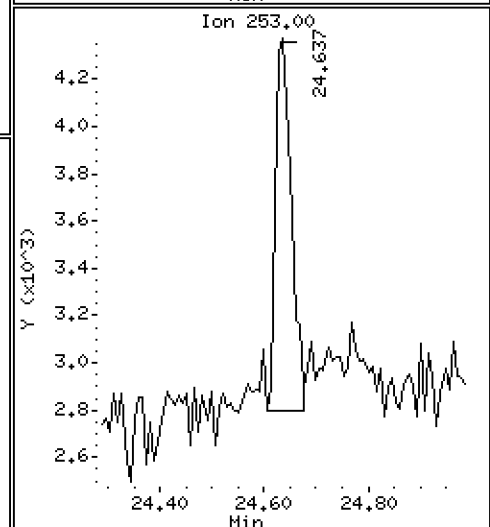
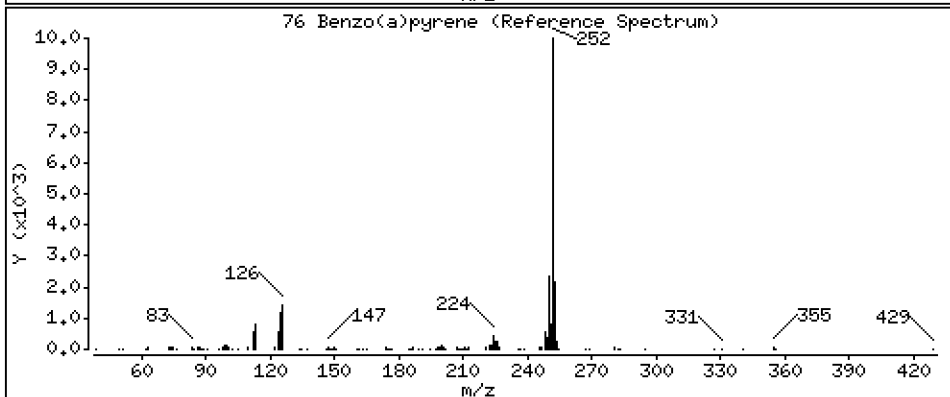
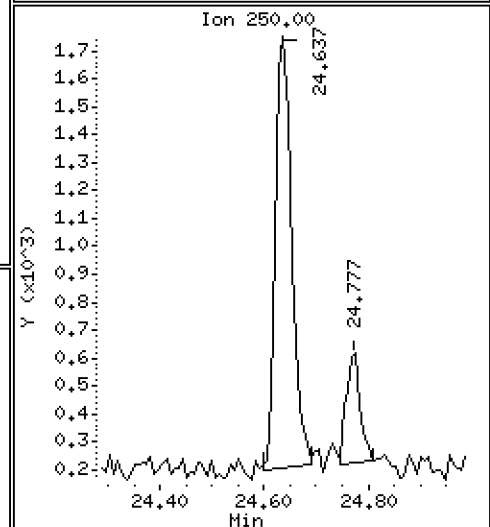
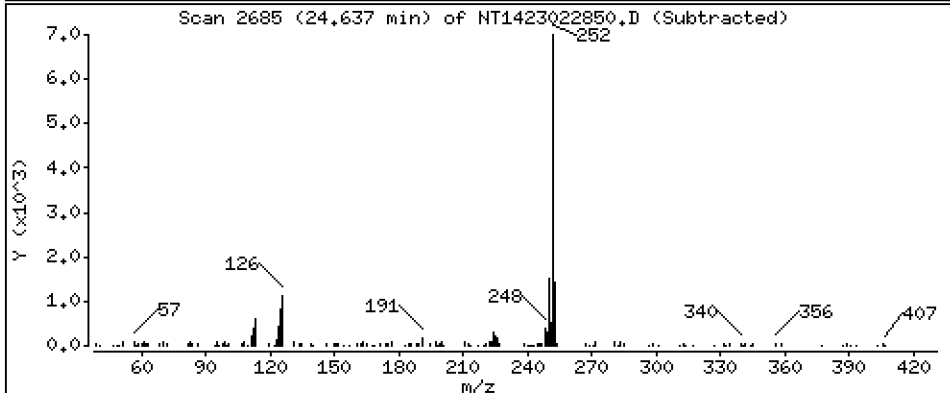
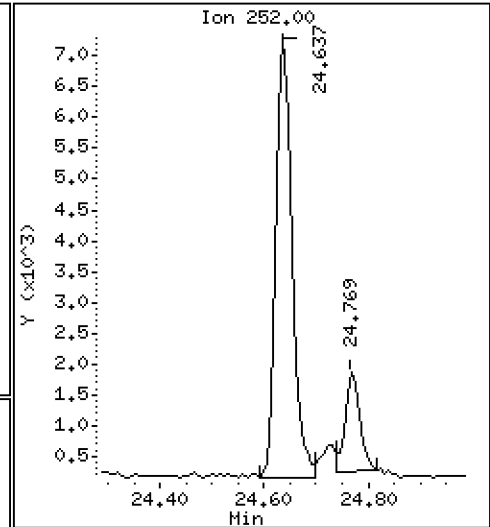
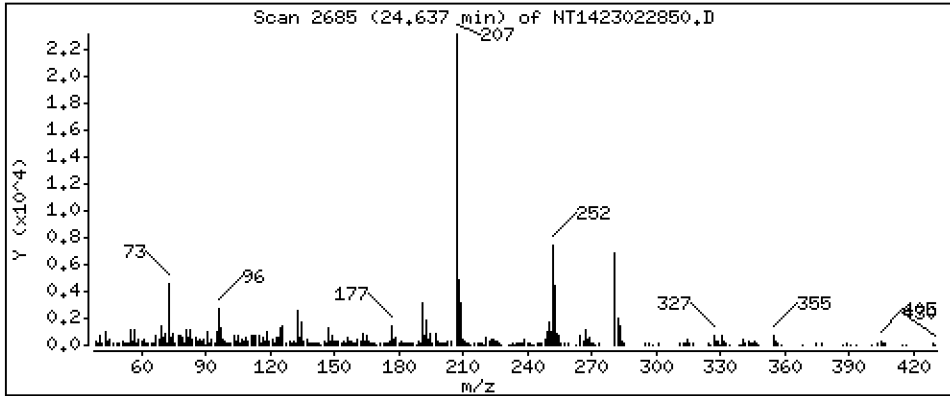
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 0,2184 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

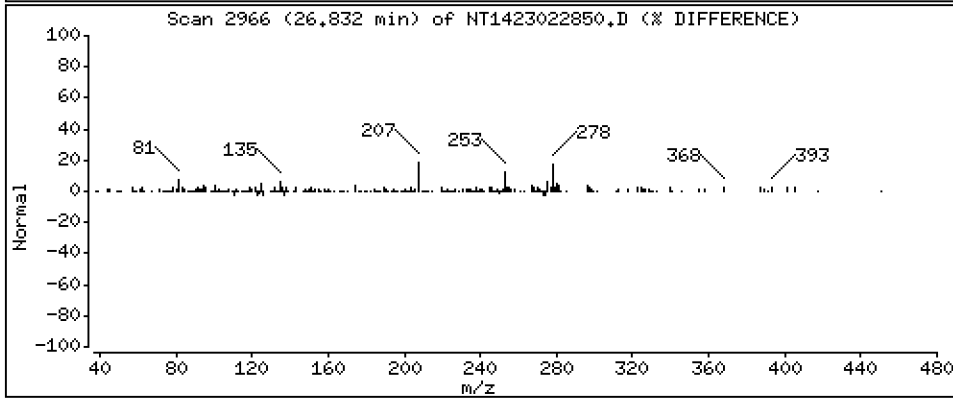
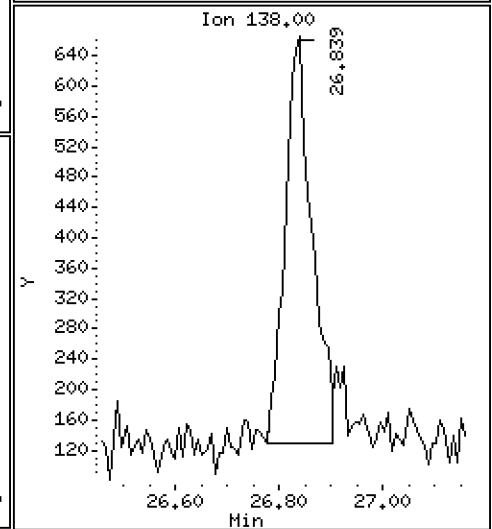
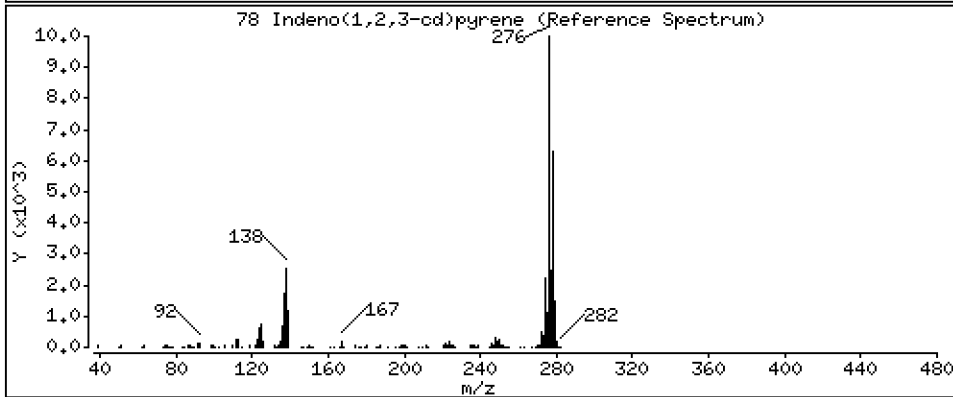
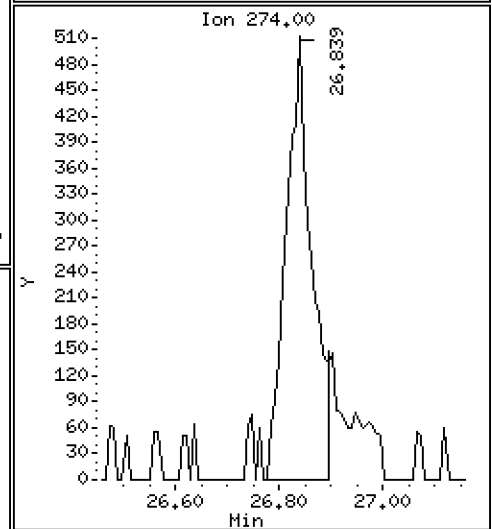
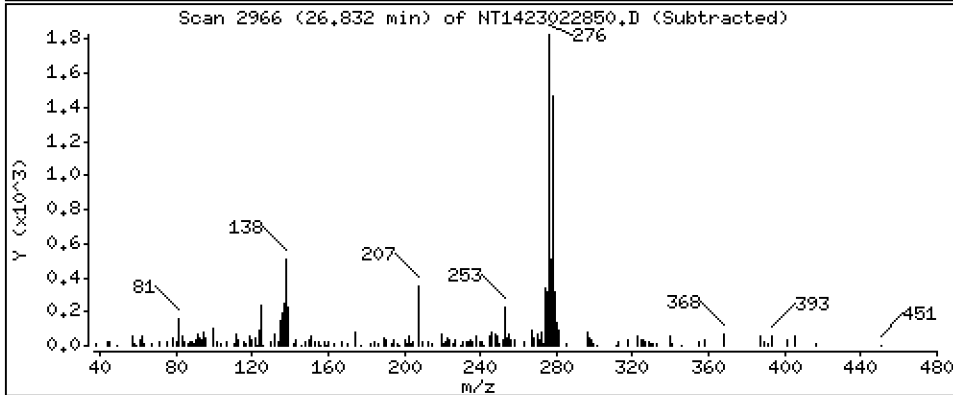
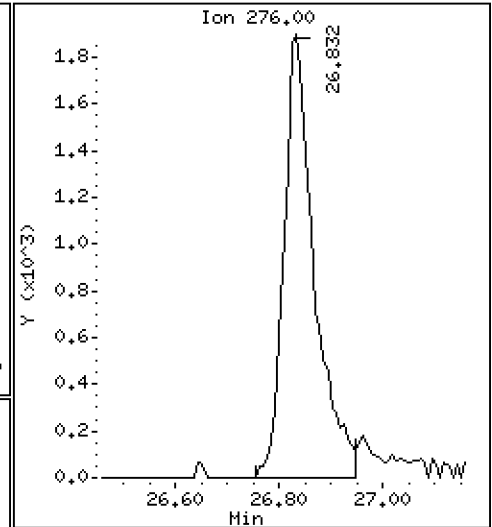
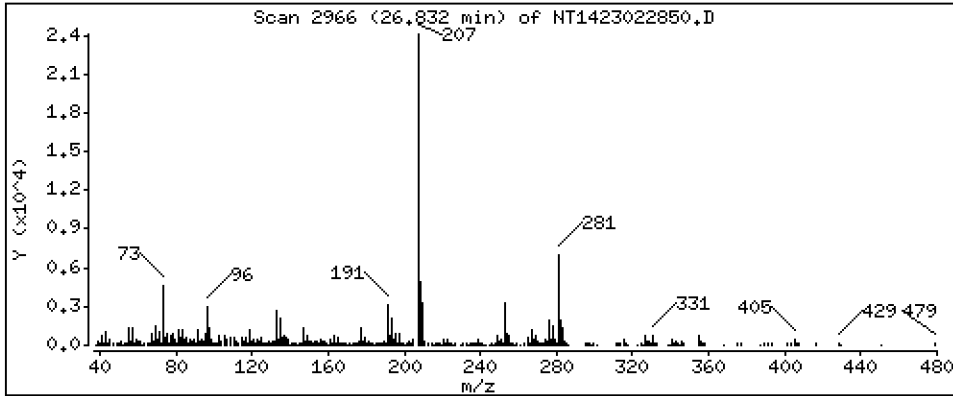
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 0,09029 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

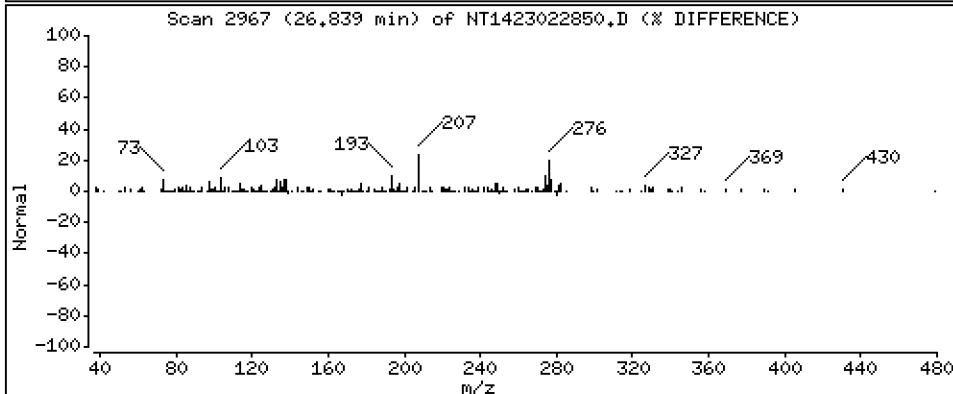
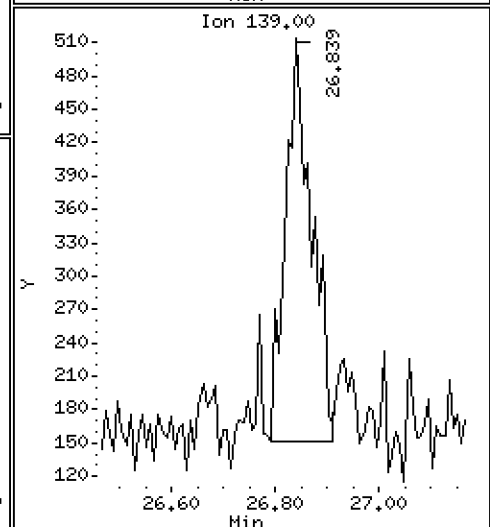
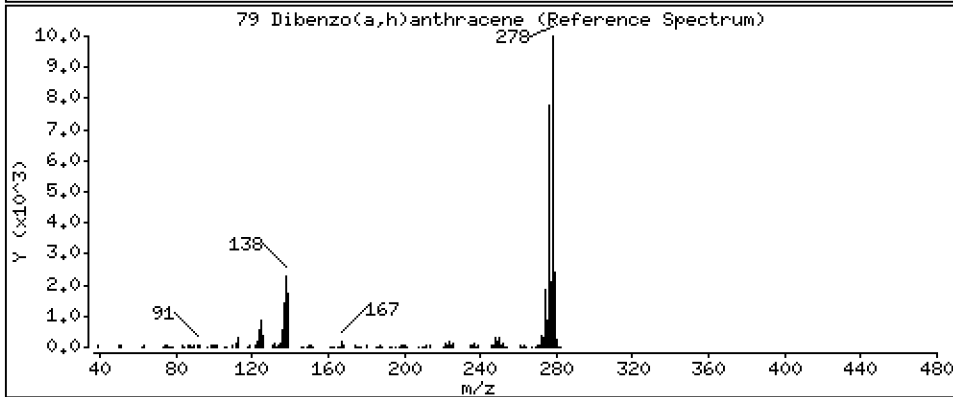
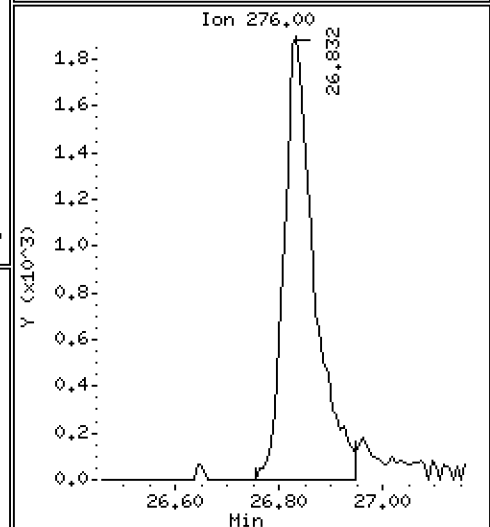
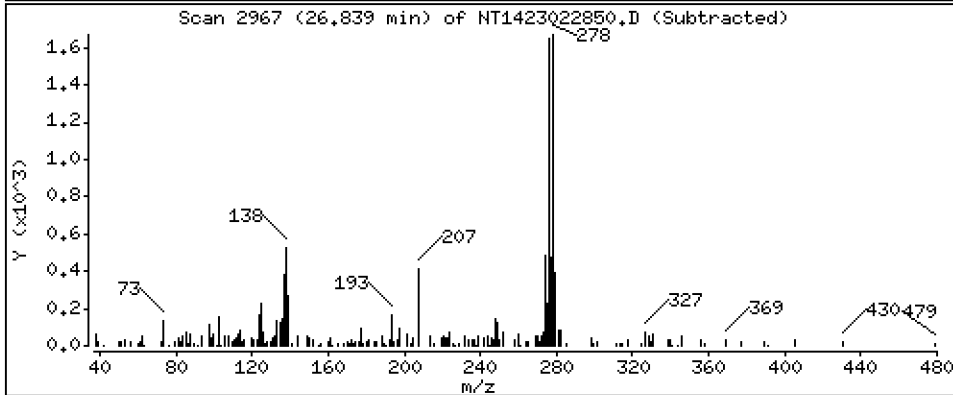
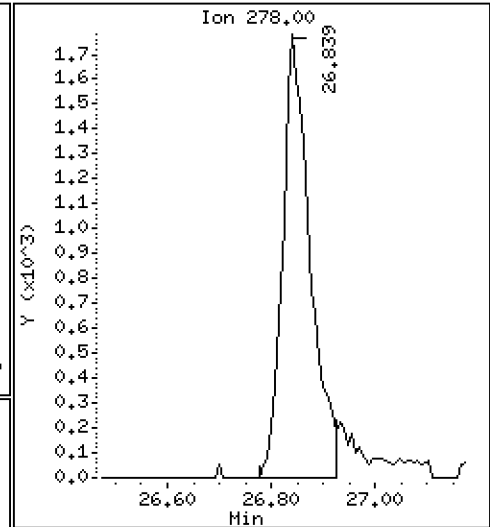
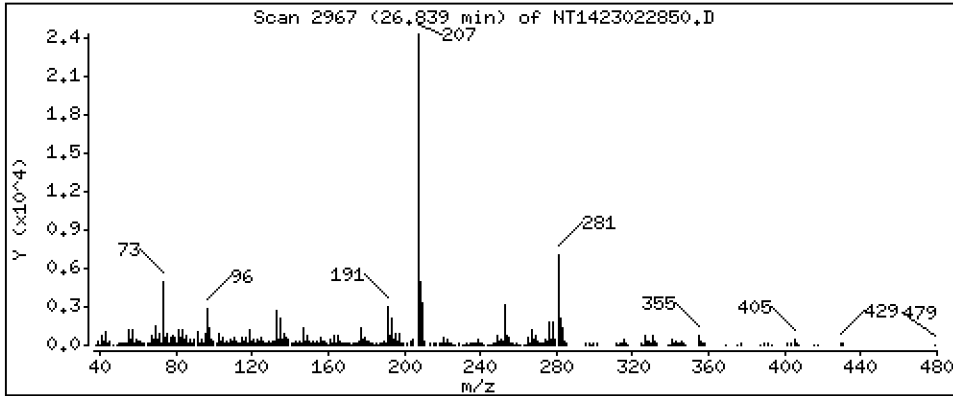
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

79 Dibenzo(a,h)anthracene

Concentration: 0.09126 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

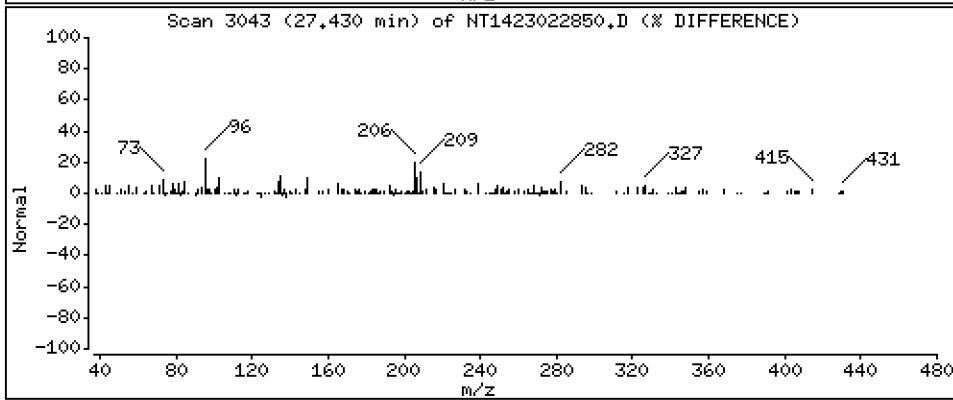
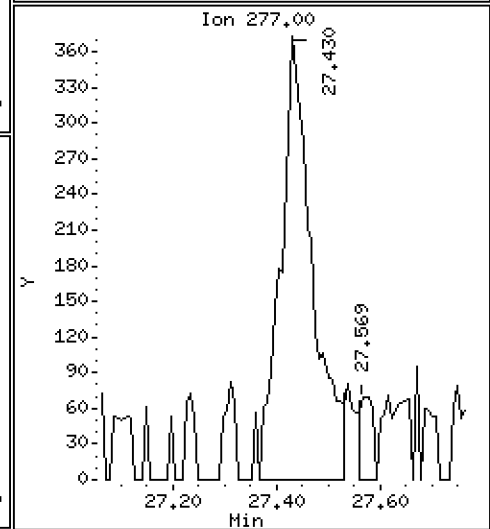
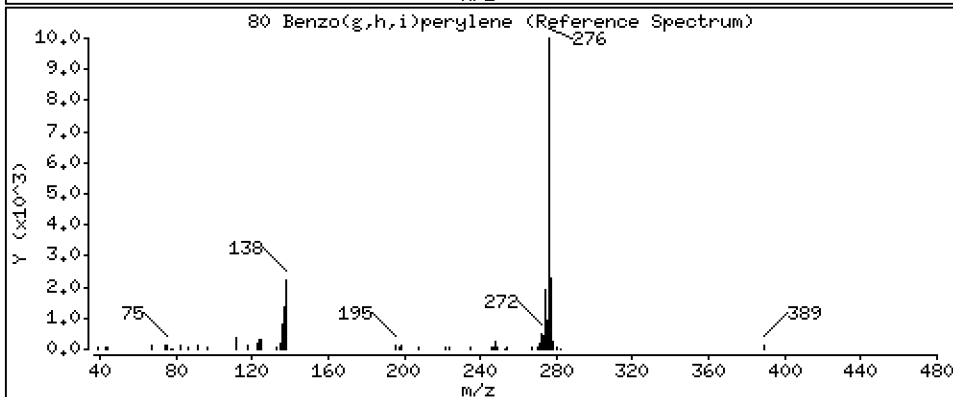
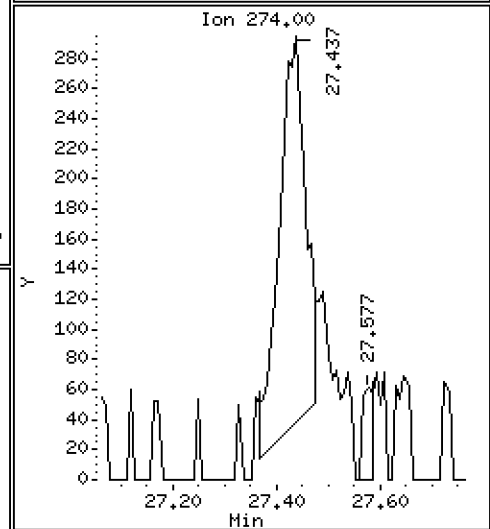
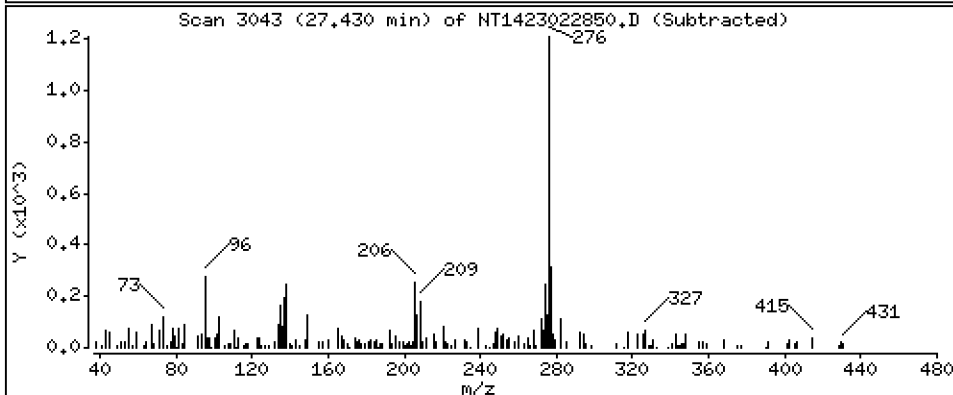
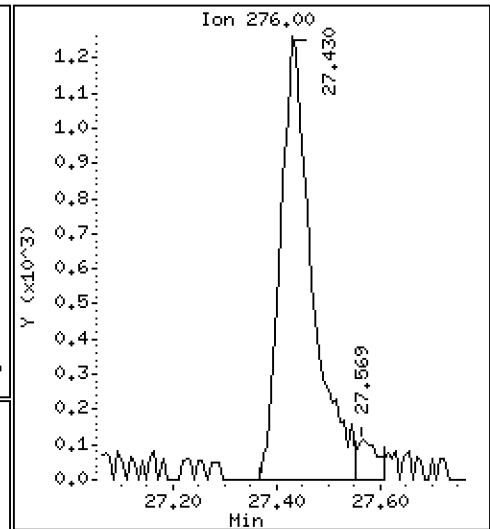
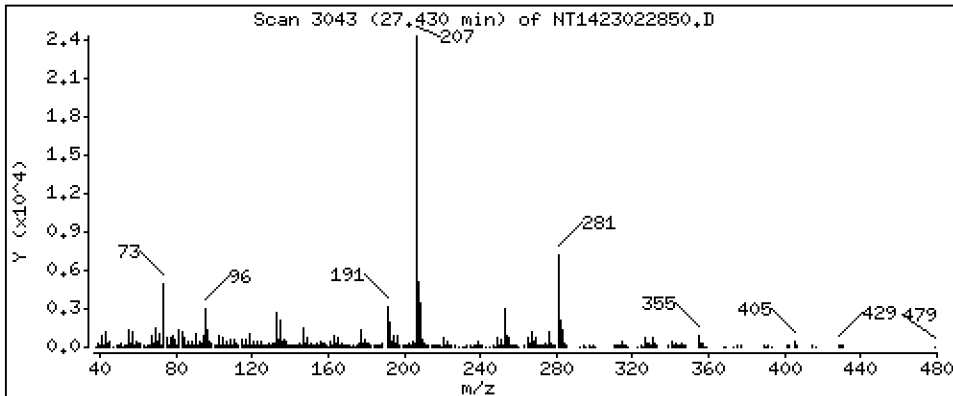
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 0,07207 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

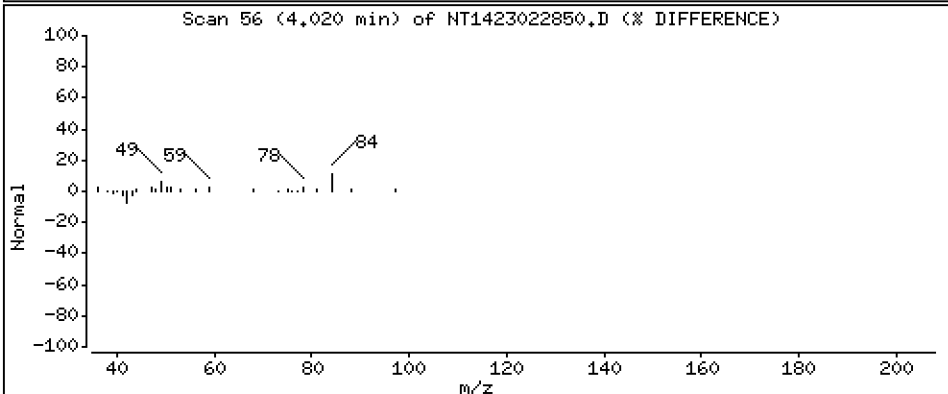
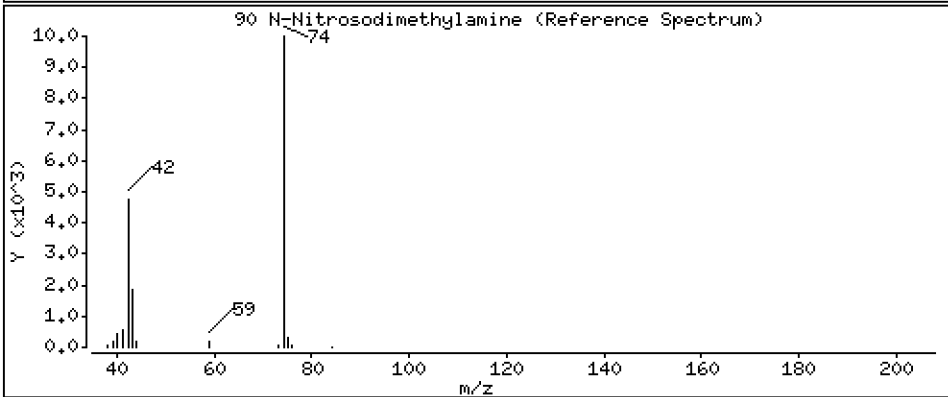
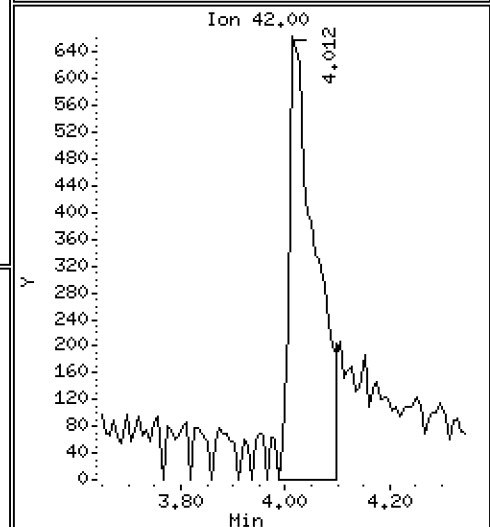
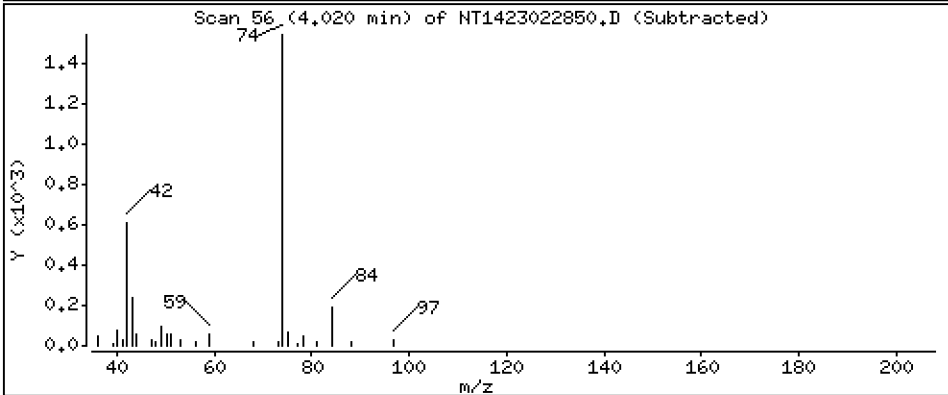
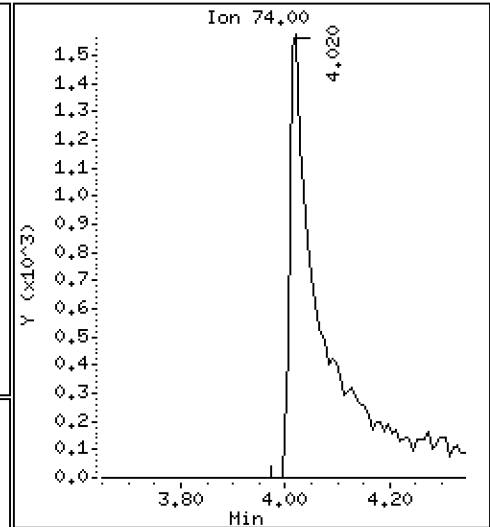
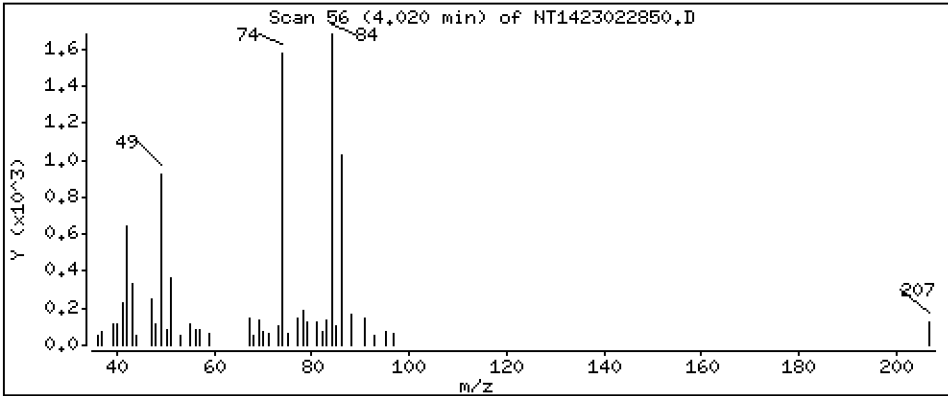
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

90 N-Nitrosodimethylamine

Concentration: 0,3584 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

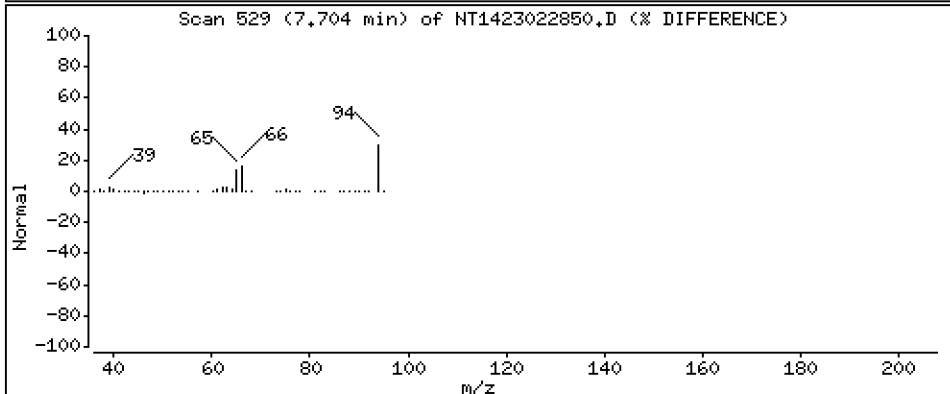
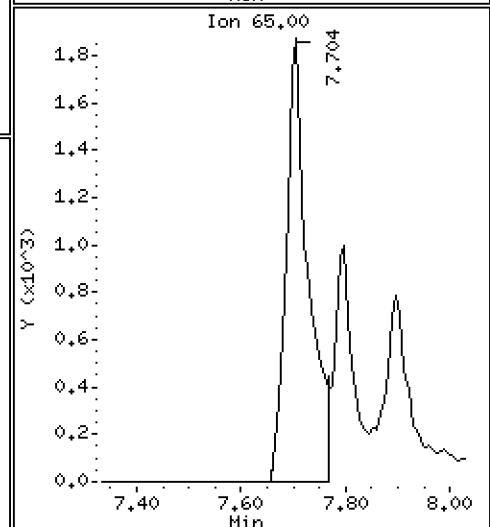
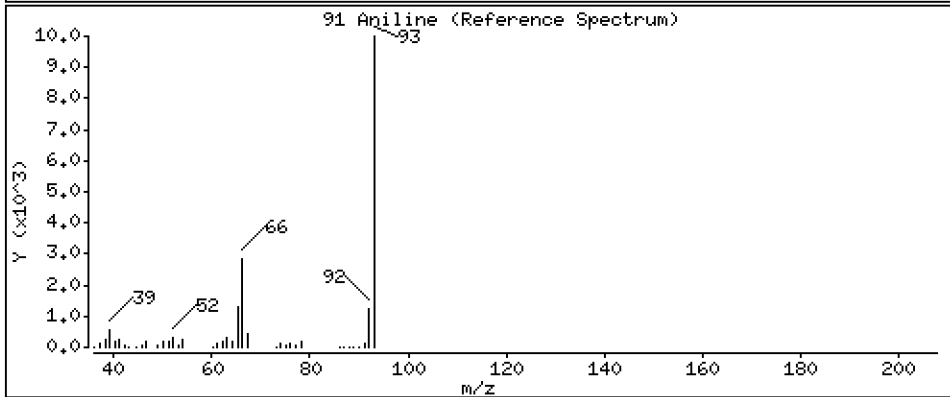
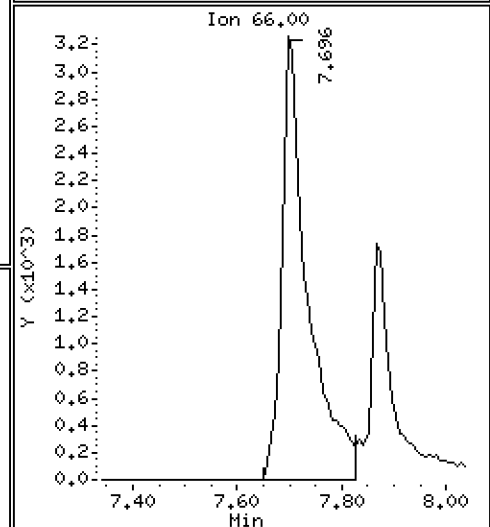
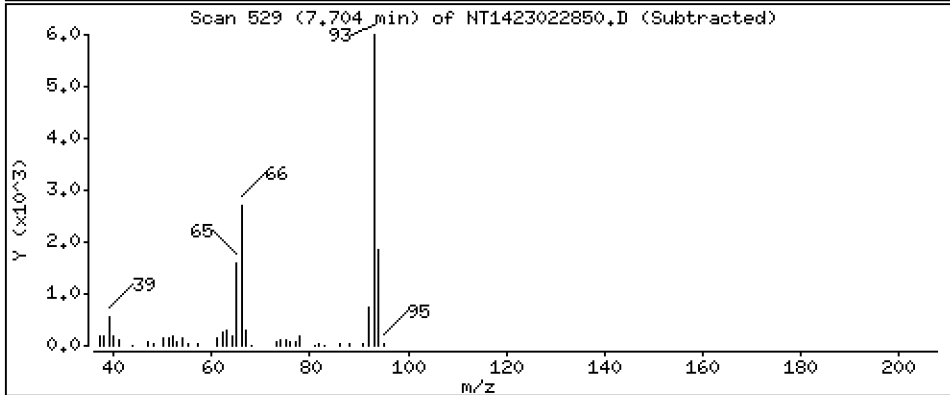
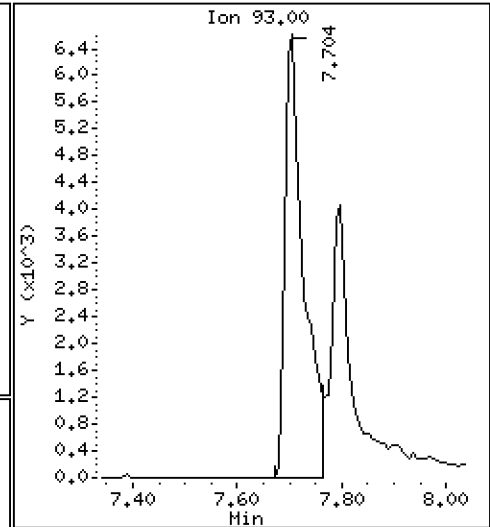
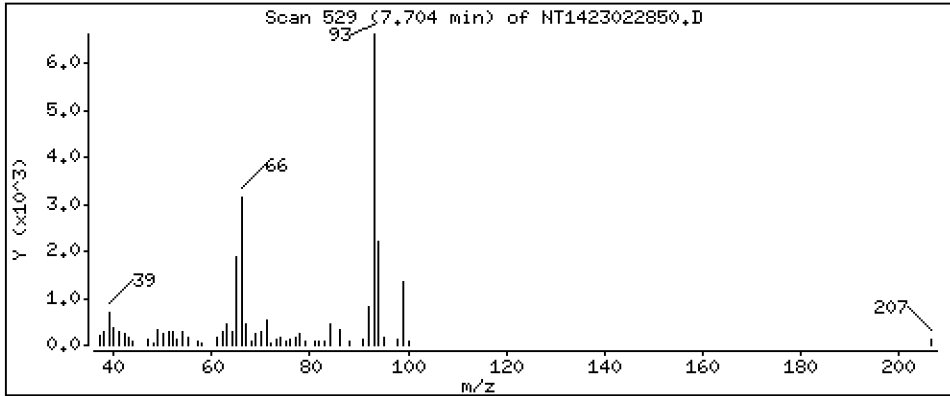
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

91 Aniline

Concentration: 0,3036 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

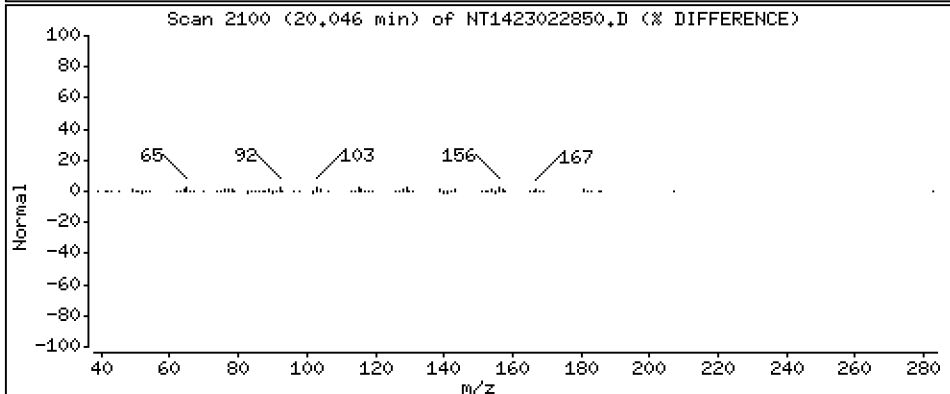
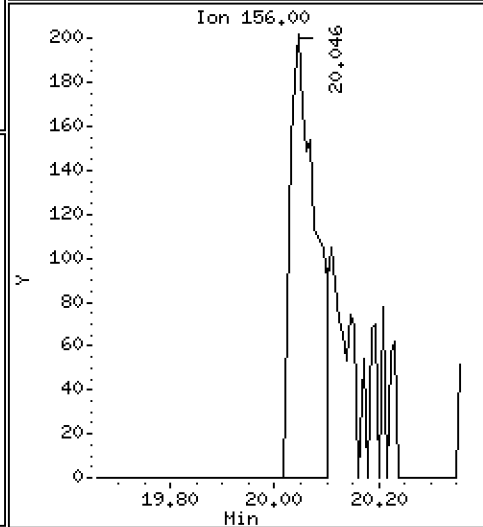
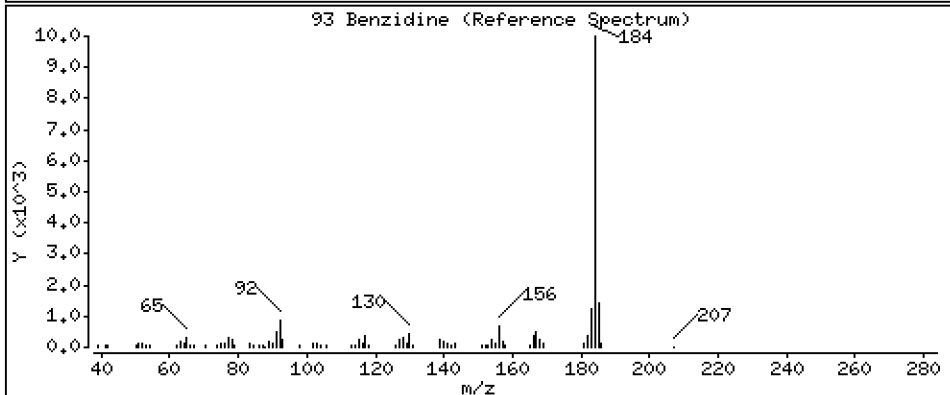
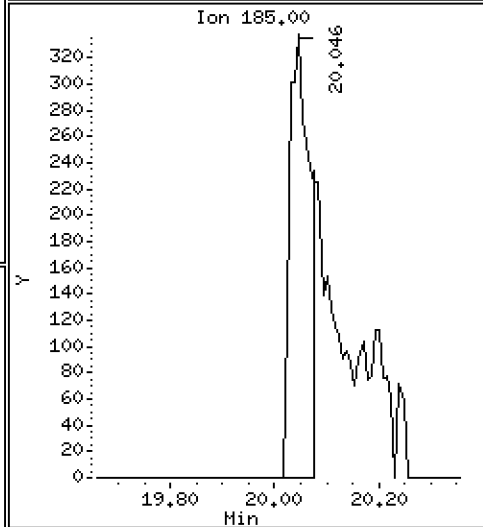
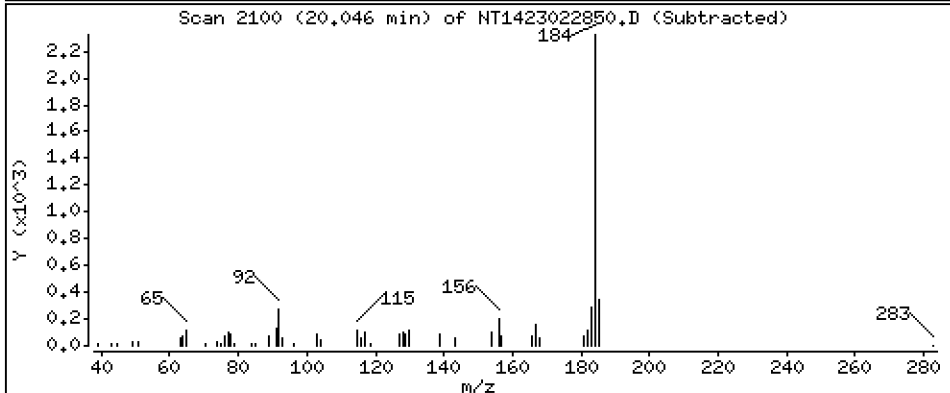
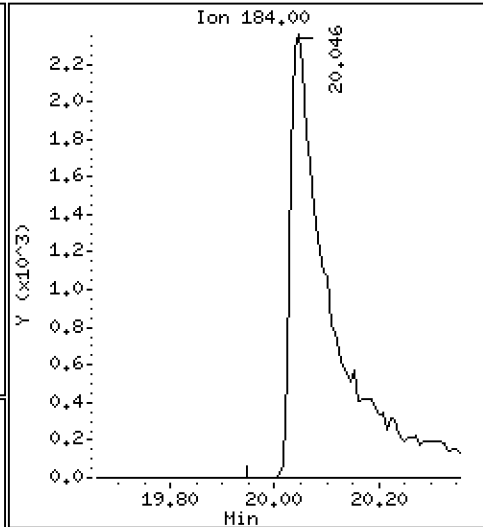
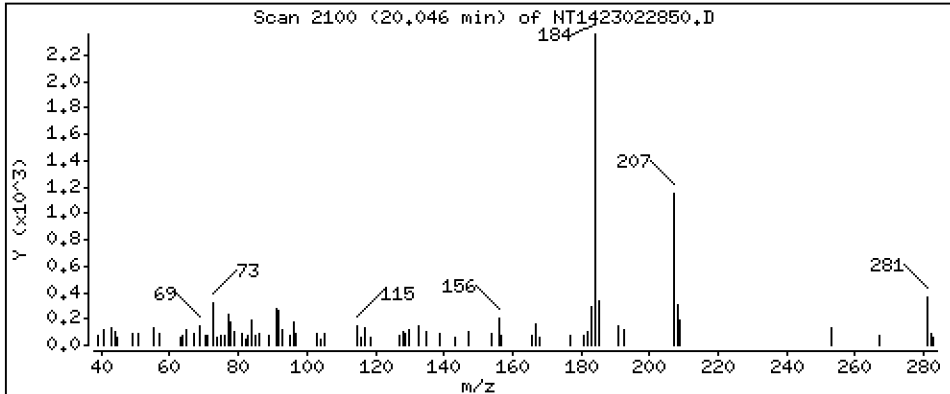
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

93 Benzidine

Concentration: 0,2674 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

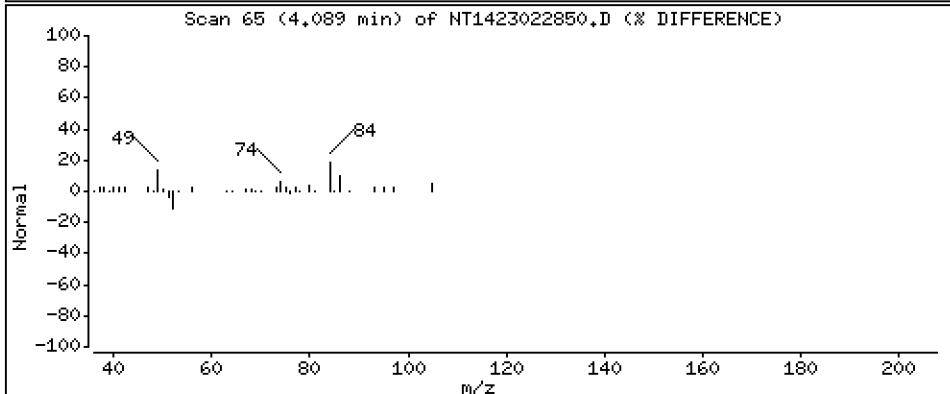
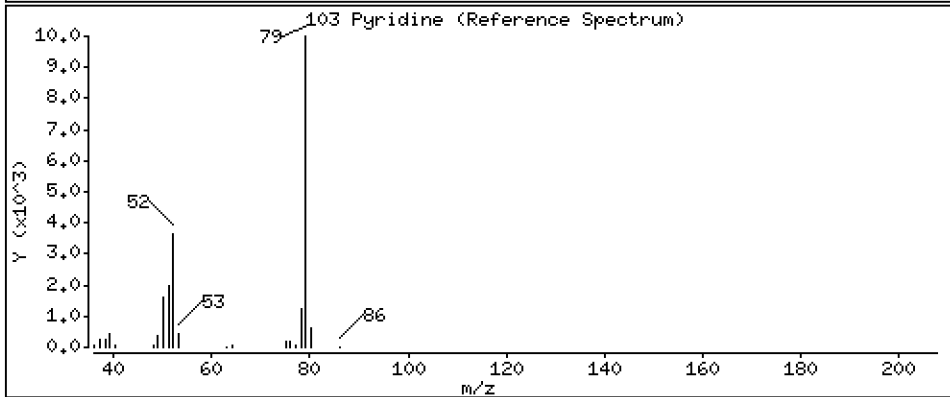
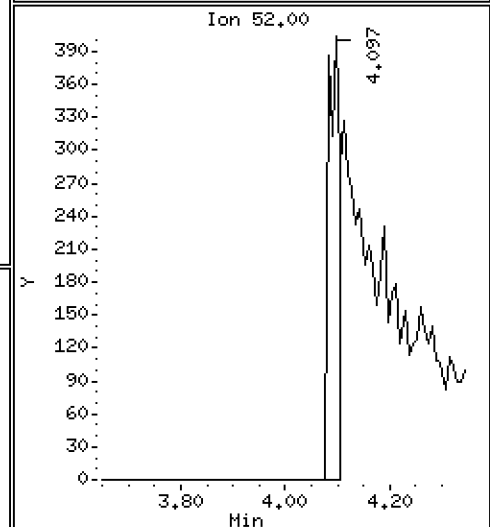
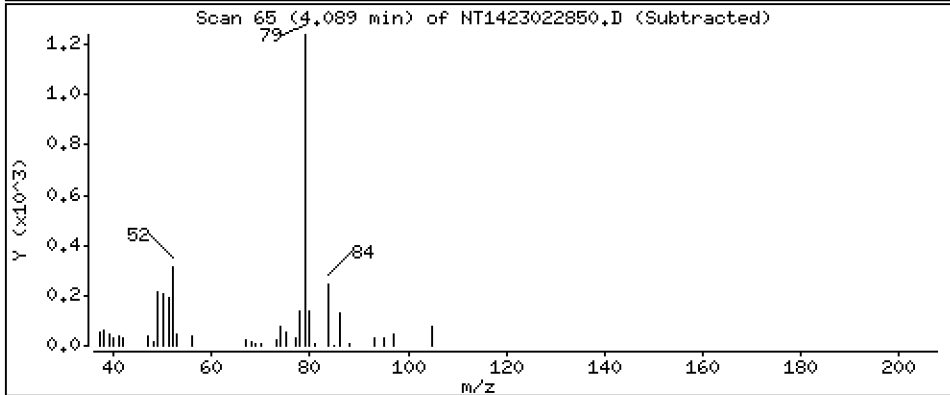
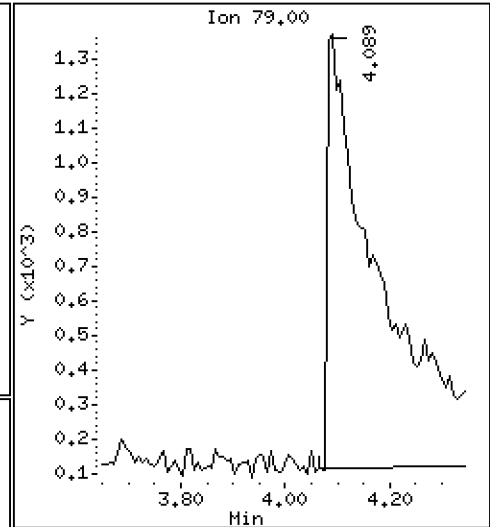
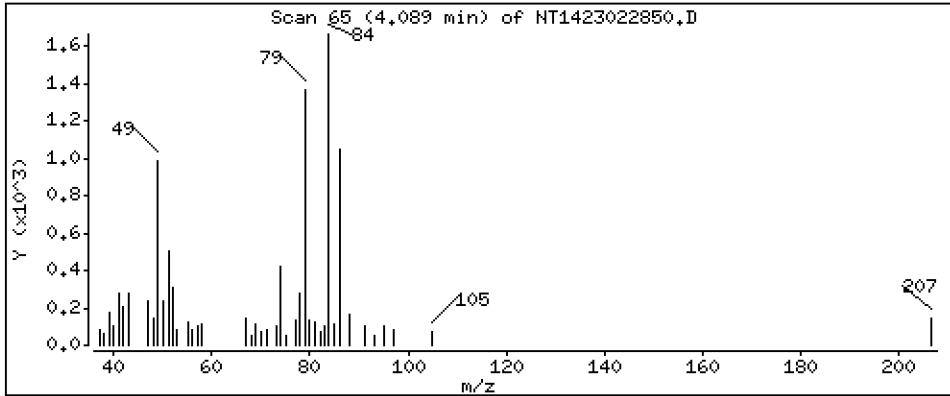
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

103 Pyridine

Concentration: 0.1595 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

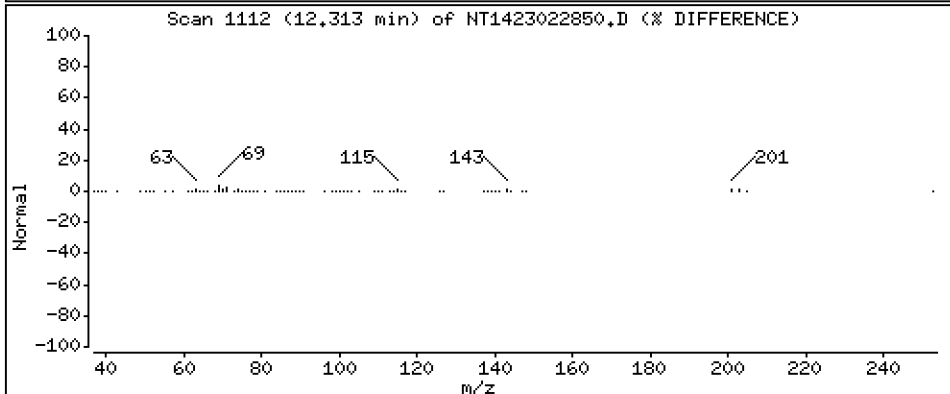
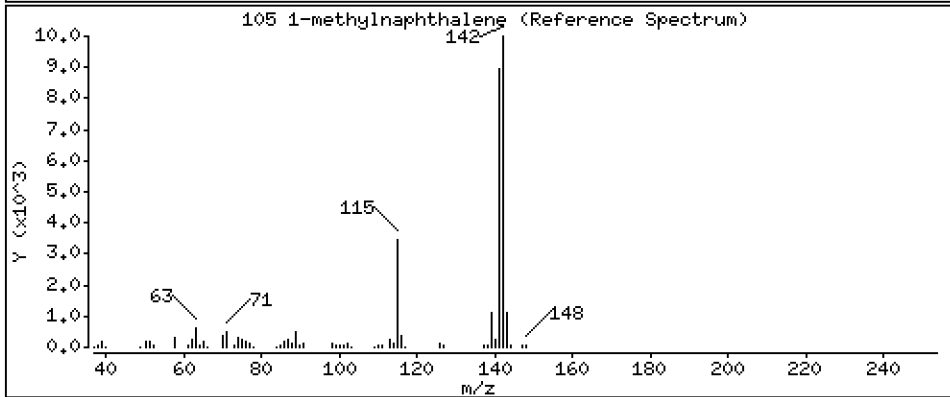
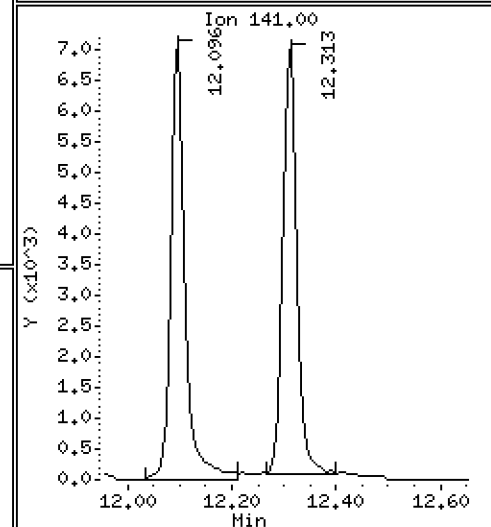
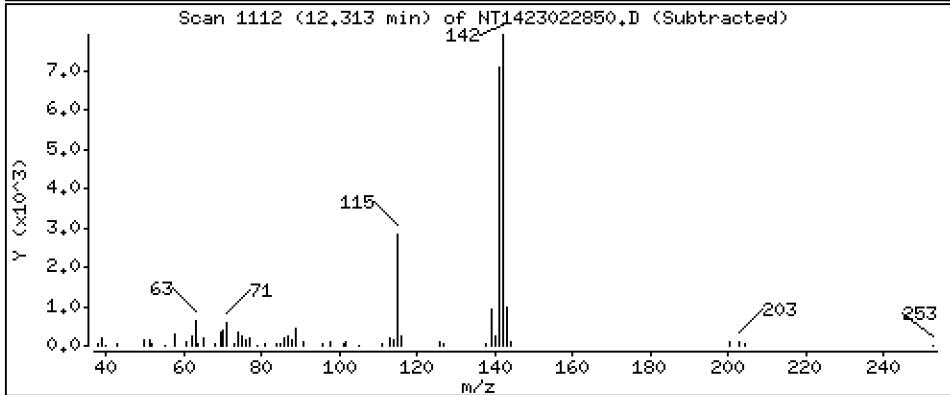
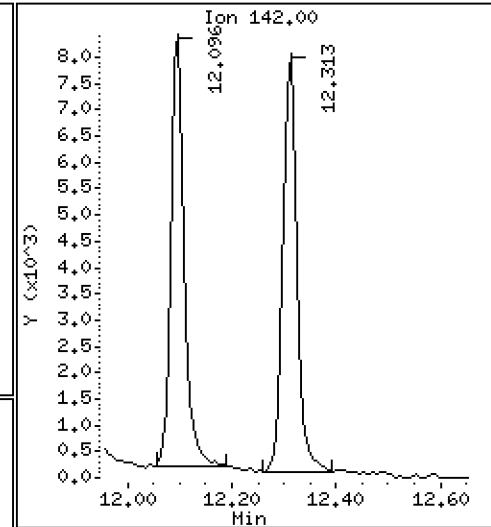
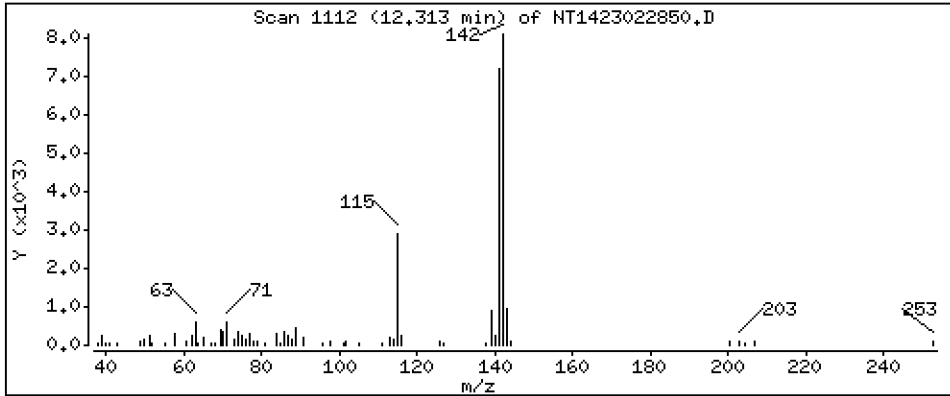
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 0,1941 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

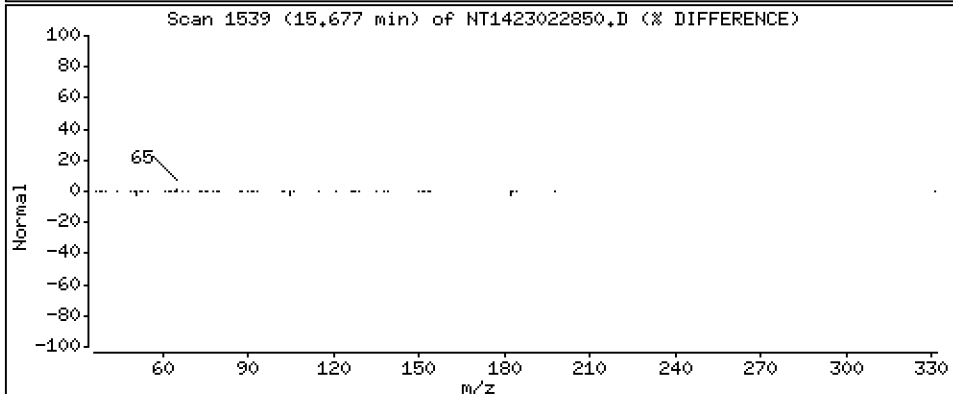
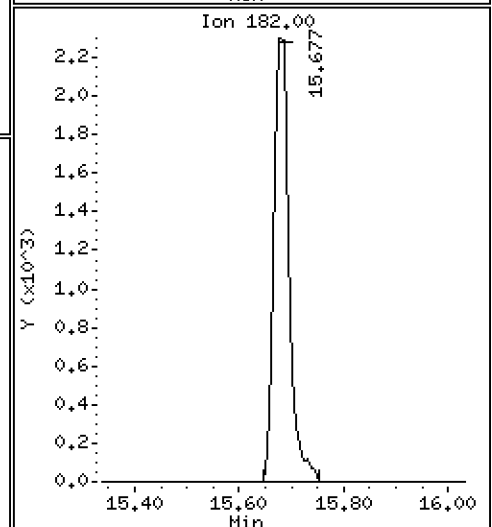
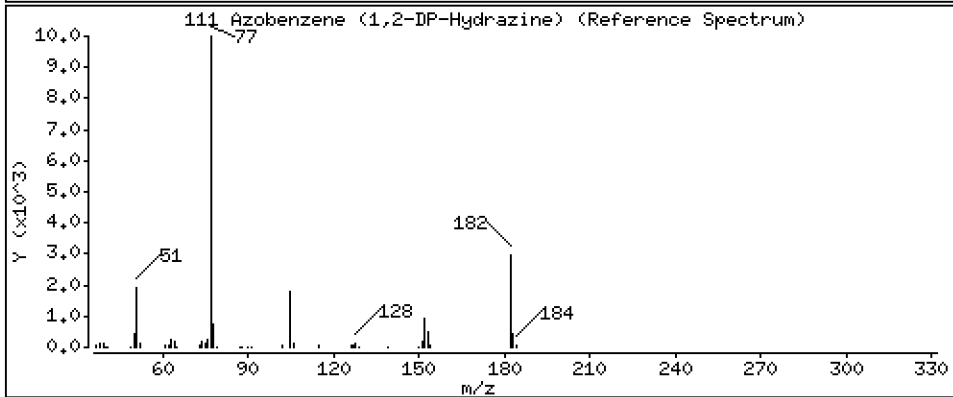
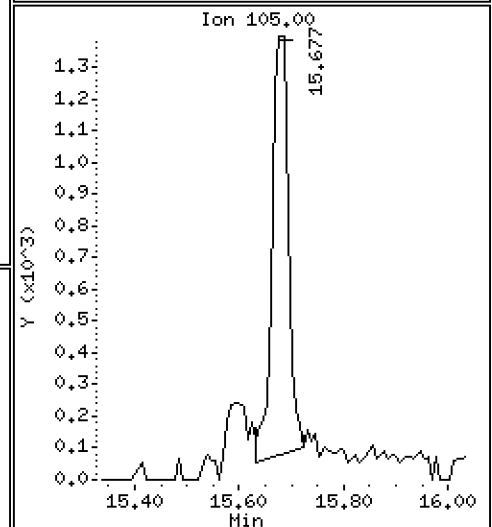
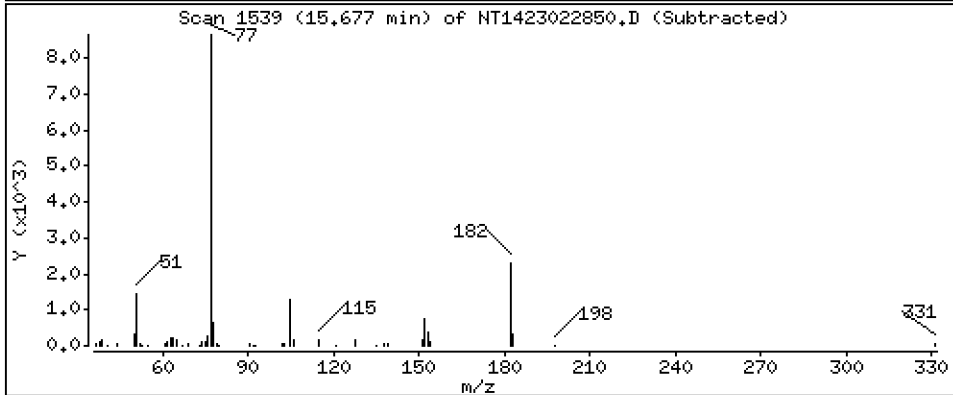
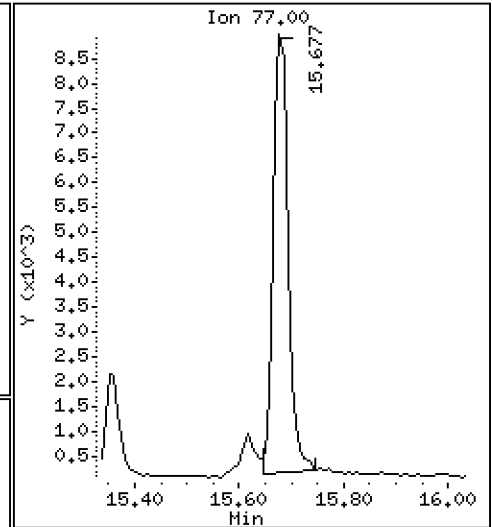
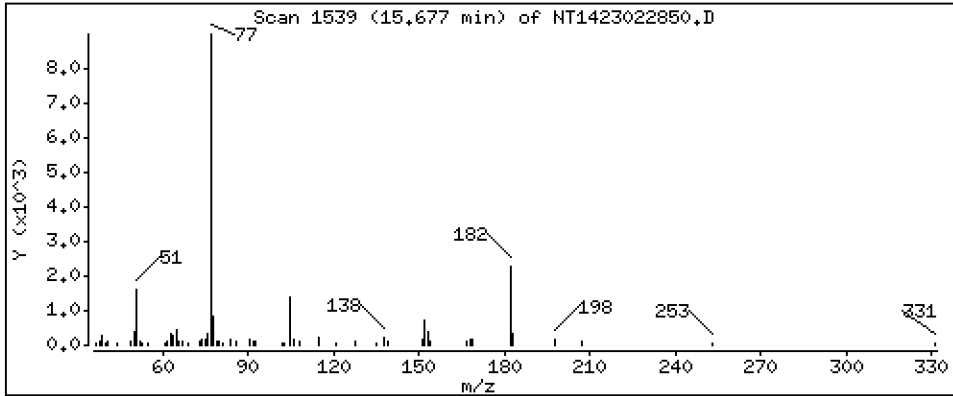
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 0,2145 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

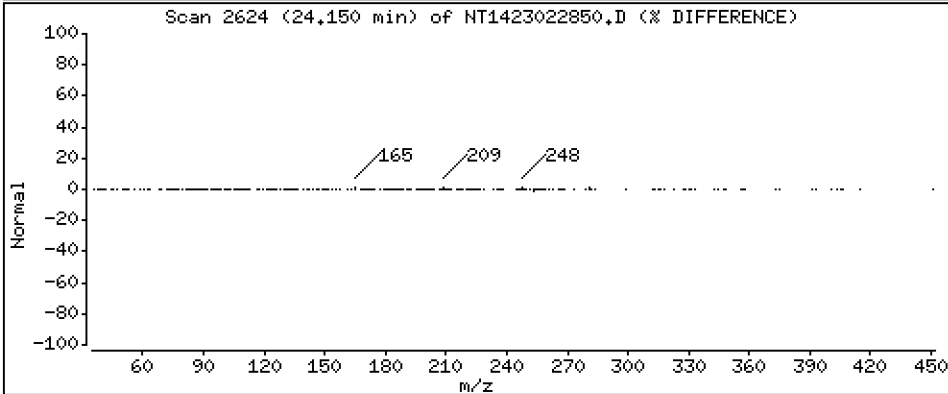
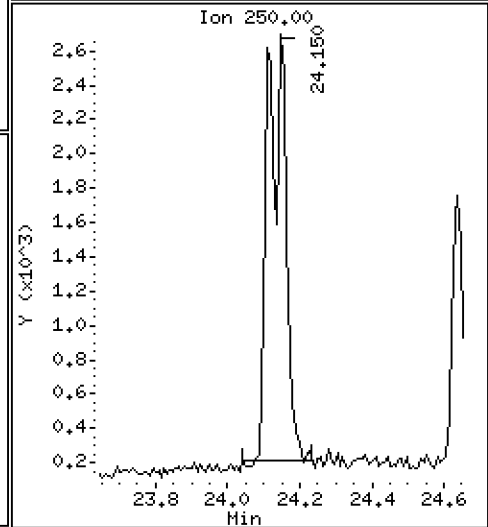
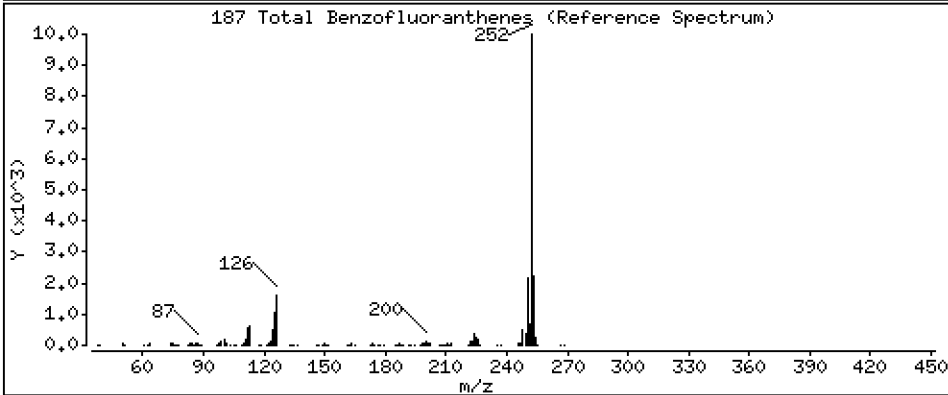
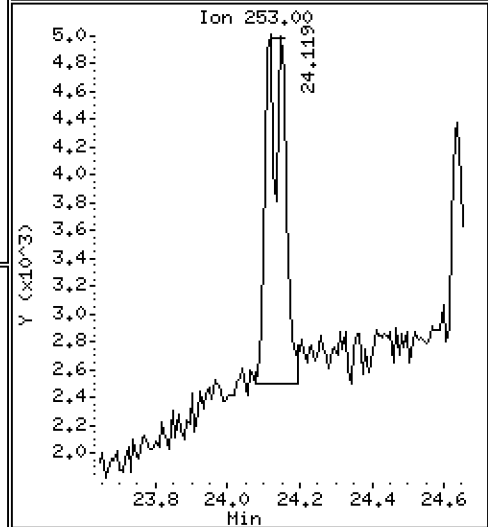
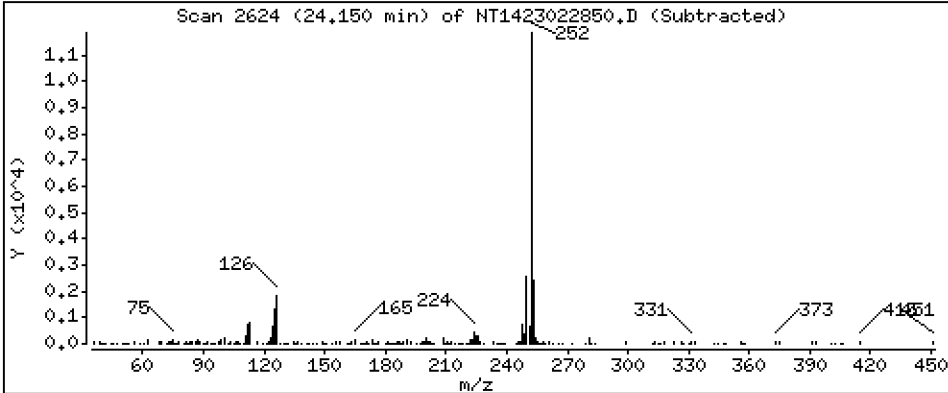
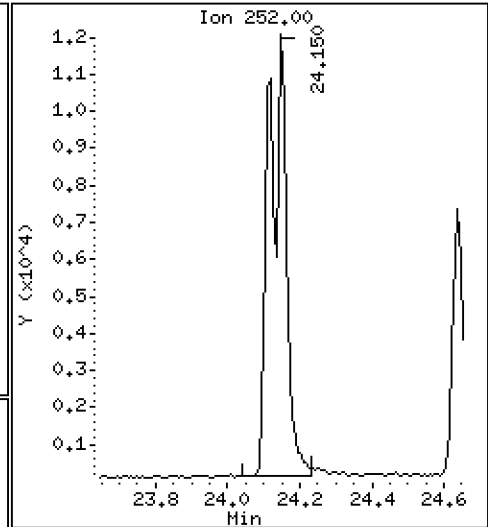
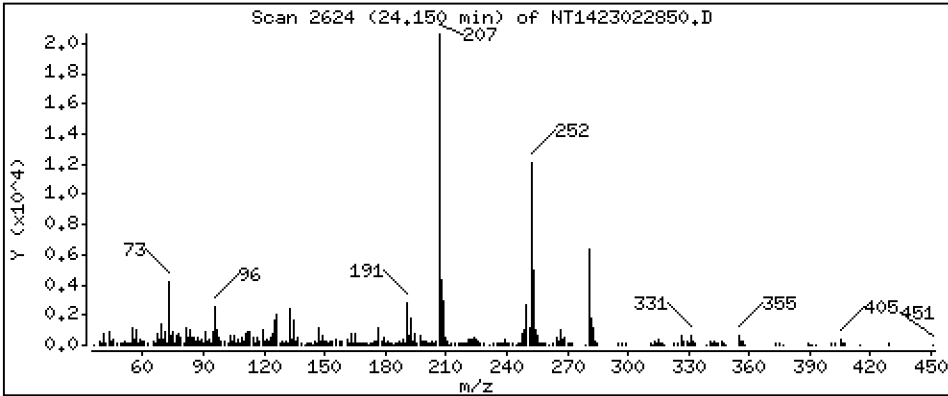
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 0,5206 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

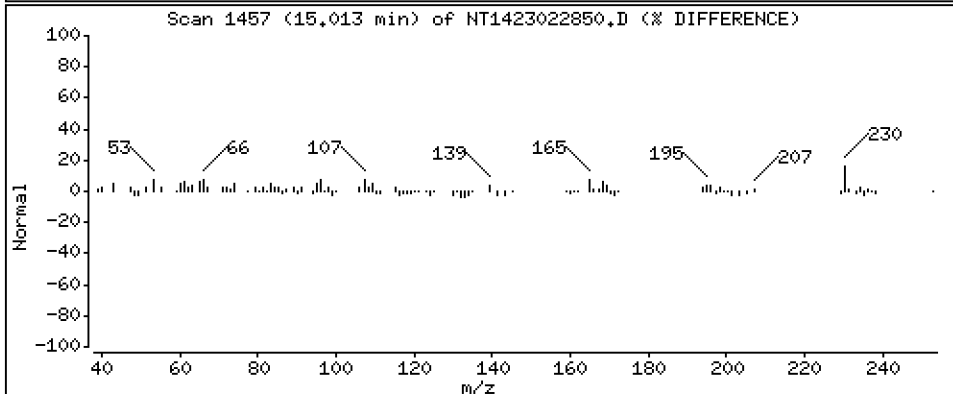
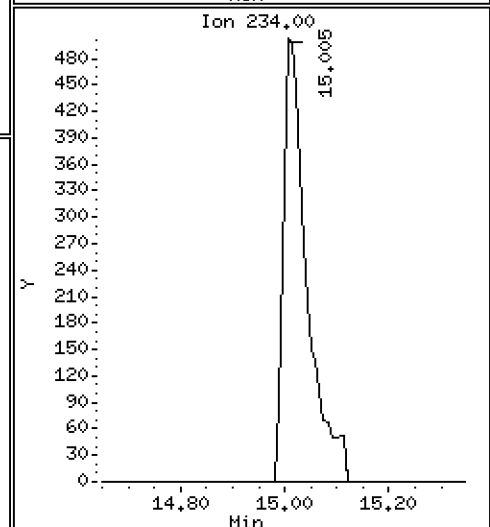
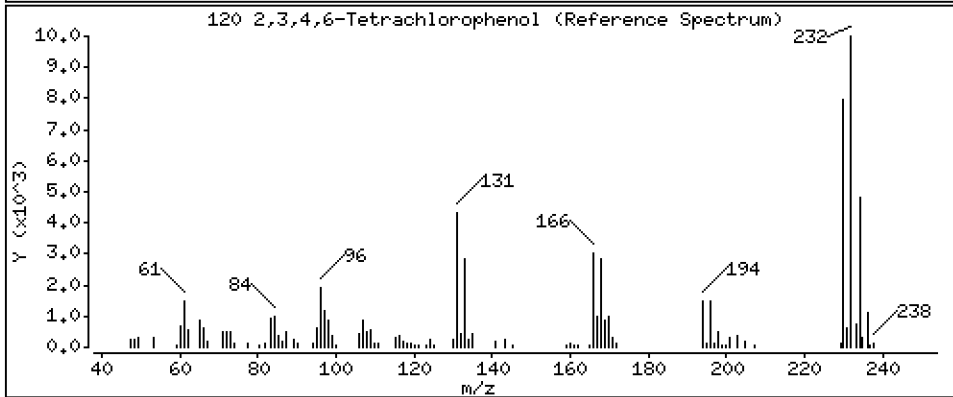
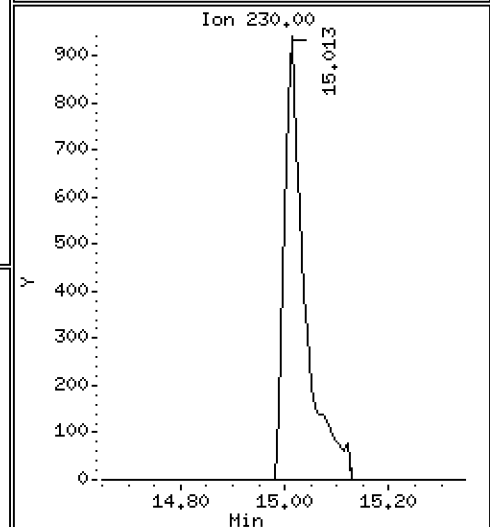
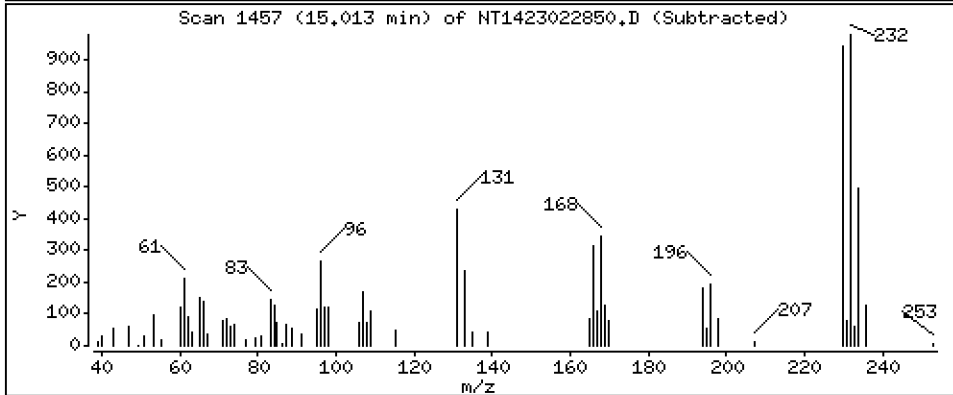
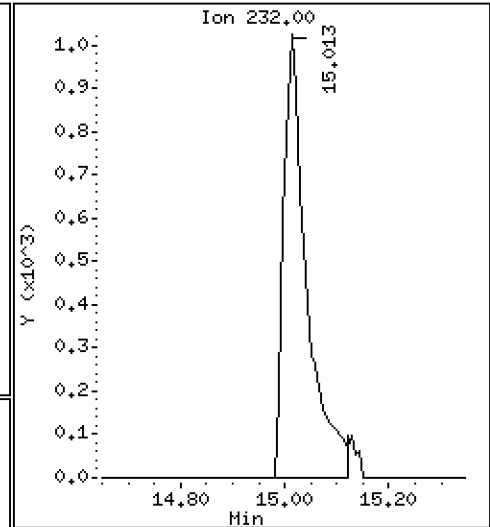
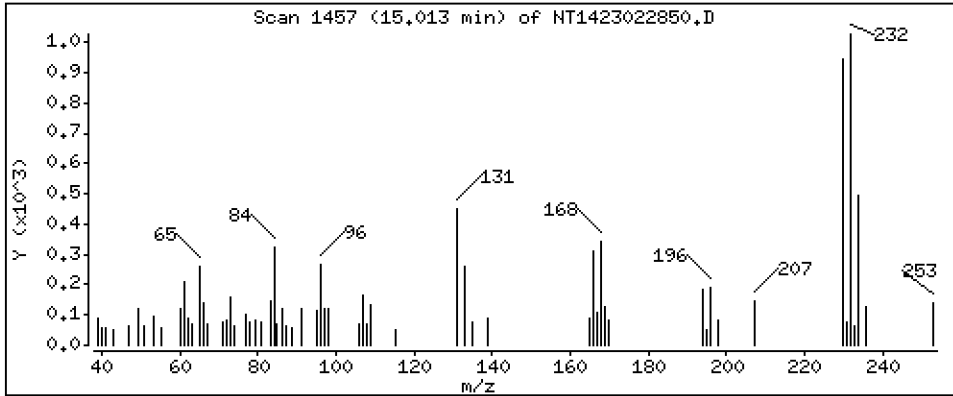
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

120 2,3,4,6-Tetrachlorophenol

Concentration: 0,1313 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230228.b\NT1423022850.D
 Lab Smp Id: SLB0374-LCV5
 Inj Date : 02-MAR-2023 07:04 MS Autotune Date: 17-MAY-2011 01:22
 Operator : JGR Inst ID: nt14.i
 Smp Info : SLB0374-LCV5
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt14.i\20230228.b\ABN.m
 Meth Date : 11-Mar-2023 13:20 van Quant Type: ISTD
 Cal Date : 28-FEB-2023 15:16 Cal File: NT1423022808.D
 Als bottle: 8
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: ICAL.sub
 Target Version: 4.14
 Processing Host: VANS-201906

| Compounds | QUANT | SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|---------------------------------|-------|-----|------------------------|--------|---------|----------|----------------|-------------|
| | | | | | | | ON-COLUMN | FINAL |
| | MASS | | | | | | (ug/mL) | (ug/mL) |
| \$ 1 2-Fluorophenol | 112 | | 6.081 | 6.066 | (0.741) | 6760 | 0.21593 | 0.2159 |
| \$ 2 Phenol-d5 | 99 | | 7.665 | 7.650 | (0.934) | 10511 | 0.23647 | 0.2365 |
| 3 Phenol | 94 | | 7.696 | 7.673 | (0.938) | 8829 | 0.16648 | 0.1665 |
| \$ 5 2-Chlorophenol-d4 | 132 | | 7.874 | 7.858 | (0.959) | 10636 | 0.28141 | 0.2814 |
| 4 Bis(2-Chloroethyl)ether | 93 | | 7.796 | 7.789 | (0.950) | 8859 | 0.23657 | 0.2366 |
| 6 2-Chlorophenol | 128 | | 7.897 | 7.889 | (0.962) | 8131 | 0.20814 | 0.2081 |
| 7 1,3-Dichlorobenzene | 146 | | 8.145 | 8.137 | (0.992) | 9218 | 0.21412 | 0.2141 |
| * 8 1,4-Dichlorobenzene-d4 | 152 | | 8.207 | 8.207 | (1.000) | 115459 | 4.00000 | |
| 9 1,4-Dichlorobenzene | 146 | | 8.238 | 8.238 | (1.004) | 8848 | 0.20795 | 0.2080 |
| \$ 10 1,2-Dichlorobenzene-d4 | 152 | | 8.564 | 8.556 | (1.043) | 5515 | 0.19382 | 0.1938 |
| 12 1,2-Dichlorobenzene | 146 | | 8.587 | 8.579 | (1.046) | 8604 | 0.21089 | 0.2109 |
| 11 Benzyl alcohol | 108 | | 8.680 | 8.517 | (1.058) | 1896 | 0.08203 | 0.08203 (M) |
| 14 2,2'-oxybis(1-Chloropropane) | 121 | | 8.796 | 8.797 | (1.072) | 2226 | 0.20231 | 0.2023 |
| 13 2-Methylphenol | 108 | | 8.781 | 8.758 | (1.070) | 5822 | 0.17377 | 0.1738 |
| 17 Hexachloroethane | 117 | | 9.161 | 9.162 | (1.116) | 2411 | 0.15089 | 0.1509 |
| 16 N-Nitroso-di-n-propylamine | 70 | | 9.060 | 9.061 | (1.104) | 5410 | 0.21207 | 0.2121 |
| 15 4-Methylphenol | 108 | | 9.068 | 9.037 | (1.105) | 5461 | 0.13986 | 0.1399 |
| \$ 18 Nitrobenzene-d5 | 82 | | 9.309 | 9.293 | (0.873) | 8210 | 0.20476 | 0.2048 |
| 19 Nitrobenzene | 77 | | 9.340 | 9.332 | (0.876) | 7891 | 0.20481 | 0.2048 |
| 20 Isophorone | 82 | | 9.782 | 9.782 | (0.918) | 9880 | 0.16404 | 0.1640 |
| 21 2-Nitrophenol | 139 | | 9.968 | 9.953 | (0.935) | 2607 | 0.13075 | 0.1308 |
| 22 2,4-Dimethylphenol | 107 | | 10.069 | 10.054 | (0.945) | 14284 | 0.40666 | 0.4067 |
| 23 Bis(2-Chloroethoxy)methane | 93 | | 10.240 | 10.232 | (0.961) | 7037 | 0.18167 | 0.1817 |
| 24 Benzoic acid | 105 | | Compound Not Detected. | | | | | |
| 25 2,4-Dichlorophenol | 162 | | 10.456 | 10.418 | (0.981) | 11736 | 0.32933 | 0.3293 (M) |
| 26 1,2,4-Trichlorobenzene | 180 | | 10.588 | 10.580 | (0.993) | 7761 | 0.19551 | 0.1955 |
| * 27 Naphthalene-d8 | 136 | | 10.657 | 10.665 | (1.000) | 409877 | 4.00000 | |
| 28 Naphthalene | 128 | | 10.703 | 10.704 | (1.004) | 23851 | 0.21816 | 0.2182 |
| 29 4-Chloroaniline | 127 | | 10.889 | 10.866 | (1.022) | 16021 | 0.34260 | 0.3426 (M) |
| 30 Hexachlorobutadiene | 225 | | 11.074 | 11.074 | (1.039) | 4389 | 0.18119 | 0.1812 |
| 31 4-Chloro-3-methylphenol | 107 | | 11.887 | 11.856 | (1.115) | 10848 | 0.34311 | 0.3431 |
| 32 2-Methylnaphthalene | 142 | | 12.096 | 12.088 | (1.135) | 14942 | 0.18455 | 0.1846 |
| 33 Hexachlorocyclopentadiene | 237 | | Compound Not Detected. | | | | | |

| Compounds | QUANT SIG | | | | | CONCENTRATIONS | | |
|-----------------------------------|-----------|------------------------|--------|---------|----------|----------------------|------------------|--|
| | MASS | RT | EXP RT | REL RT | RESPONSE | ON-COLUMN (ug/mL) | FINAL (ug/mL) | |
| 34 2,4,6-Trichlorophenol | 196 | 12.746 | 12.731 | (0.895) | 7293 | 0.32414 | 0.3241 | |
| 35 2,4,5-Trichlorophenol | 196 | 12.839 | 12.808 | (0.901) | 10192 | 0.41896 | 0.4190 (M) | |
| § 36 2-Fluorobiphenyl | 172 | 12.885 | 12.885 | (0.904) | 18644 | 0.20797 | 0.2080 | |
| 37 2-Chloronaphthalene | 162 | 13.079 | 13.071 | (0.918) | 14974 | 0.20837 | 0.2084 | |
| 38 2-Nitroaniline | 65 | 13.380 | 13.365 | (0.939) | 6886 | 0.36740 | 0.3674 | |
| 39 Dimethylphthalate | 163 | 13.806 | 13.806 | (0.969) | 15187 | 0.20963 | 0.2096 | |
| 40 Acenaphthylene | 152 | 13.930 | 13.930 | (0.978) | 23028 | 0.21838 | 0.2184 | |
| 41 2,6-Dinitrotoluene | 165 | 13.938 | 13.938 | (0.978) | 6188 | 0.36449 | 0.3645 | |
| * 42 Acenaphthene-d10 | 164 | 14.247 | 14.247 | (1.000) | 230328 | 4.00000 | | |
| 43 3-Nitroaniline | 138 | 14.255 | 14.216 | (1.001) | 5369 | 0.30856 | 0.3086 (M) | |
| 44 Acenaphthene | 153 | 14.309 | 14.309 | (1.004) | 14213 | 0.21052 | 0.2105 | |
| 45 2,4-Dinitrophenol | 184 | Compound Not Detected. | | | | | | |
| 46 Dibenzofuran | 168 | 14.641 | 14.642 | (1.028) | 21500 | 0.20014 | 0.2001 | |
| 47 4-Nitrophenol | 109 | Compound Not Detected. | | | | | | |
| 48 2,4-Dinitrotoluene | 165 | 14.742 | 14.734 | (1.035) | 7190 | 0.29419 | 0.2942 | |
| 50 Diethylphthalate | 149 | 15.252 | 15.260 | (1.071) | 14688 | 0.21680 | 0.2168 | |
| 49 Fluorene | 166 | 15.345 | 15.345 | (1.077) | 19196 | 0.21208 | 0.2121 | |
| 51 4-Chlorophenyl-phenylether | 204 | 15.361 | 15.361 | (1.078) | 9443 | 0.19608 | 0.1961 | |
| 52 4-Nitroaniline | 138 | 15.538 | 15.484 | (1.091) | 5026 | 0.29139 | 0.2914 (M) | |
| 53 4,6-Dinitro-2-methylphenol | 198 | 15.584 | 15.569 | (0.903) | 2288 | 0.16480 | 0.1648 (M) | |
| 54 N-Nitrosodiphenylamine | 169 | 15.615 | 15.615 | (0.905) | 11367 | 0.21653 | 0.2165 | |
| § 55 2,4,6-Tribromophenol | 330 | 15.893 | 15.885 | (1.116) | 2778 | 0.22458 | 0.2246 | |
| 56 4-Bromophenyl-phenylether | 248 | 16.348 | 16.348 | (0.948) | 4444 | 0.19255 | 0.1925 | |
| 57 Hexachlorobenzene | 284 | 16.641 | 16.642 | (0.965) | 5111 | 0.20142 | 0.2014 | |
| 58 Pentachlorophenol | 266 | 17.052 | 17.013 | (0.988) | 1731 | 0.14503 | 0.1450 (M) | |
| * 59 Phenanthrene-d10 | 188 | 17.253 | 17.253 | (1.000) | 417754 | 4.00000 | | |
| 60 Phenanthrene | 178 | 17.299 | 17.299 | (1.003) | 23378 | 0.21036 | 0.2104 | |
| 61 Anthracene | 178 | 17.392 | 17.392 | (1.008) | 21508 | 0.20472 | 0.2047 | |
| 62 Carbazole | 167 | 17.763 | 17.748 | (1.030) | 17276 | 0.18762 | 0.1876 | |
| 63 Di-n-butylphthalate | 149 | 18.599 | 18.599 | (1.078) | 22997 | 0.19336 | 0.1934 | |
| 64 Fluoranthene | 202 | 19.729 | 19.729 | (0.882) | 23601 | 0.17631 | 0.1763 | |
| 65 Pyrene | 202 | 20.154 | 20.154 | (0.901) | 25934 | 0.18375 | 0.1838 | |
| § 66 Terphenyl-d14 | 244 | 20.487 | 20.479 | (0.916) | 19507 | 0.17951 | 0.1795 | |
| 67 Butylbenzylphthalate | 149 | 21.447 | 21.447 | (0.958) | 9988 | 0.19992 | 0.1999 | |
| 68 Benzo(a)anthracene | 228 | 22.345 | 22.353 | (0.999) | 26073 | 0.22060 | 0.2206 | |
| * 69 Chrysene-d12 | 240 | 22.376 | 22.376 | (1.000) | 352830 | 4.00000 | | |
| 70 3,3'-Dichlorobenzidine | 252 | 22.337 | 22.338 | (0.998) | 24208 | 0.71722 | 0.7172 | |
| 71 Chrysene | 228 | 22.415 | 22.423 | (1.002) | 24137 | 0.21247 | 0.2125 | |
| 72 bis(2-Ethylhexyl)phthalate | 149 | 22.500 | 22.500 | (0.958) | 13826 | 0.18117 | 0.1812 | |
| * 134 Di-n-octylphthalate-d4 | 153 | 23.483 | 23.483 | (1.000) | 499736 | 4.00000 | | |
| 73 Di-n-octylphthalate | 149 | 23.491 | 23.491 | (1.000) | 27092 | 0.20590 | 0.2059 | |
| 74 Benzo(b)fluoranthene | 252 | 24.118 | 24.118 | (0.975) | 19800 | 0.25024 | 0.2502 | |
| 75 Benzo(k)fluoranthene | 252 | 24.149 | 24.149 | (0.977) | 22676 | 0.26565 | 0.2656 | |
| 76 Benzo(a)pyrene | 252 | 24.637 | 24.637 | (0.996) | 14828 | 0.21844 | 0.2184 | |
| * 77 Perylene-d12 | 264 | 24.730 | 24.730 | (1.000) | 239484 | 4.00000 | | |
| 78 Indeno(1,2,3-cd)pyrene | 276 | 26.831 | 26.808 | (1.085) | 7715 | 0.09029 | 0.09029 | |
| 79 Dibenzo(a,h)anthracene | 278 | 26.839 | 26.824 | (1.085) | 6623 | 0.09126 | 0.09126 | |
| 80 Benzo(g,h,i)perylene | 276 | 27.429 | 27.414 | (1.109) | 5371 | 0.07207 | 0.07207 | |
| 90 N-Nitrosodimethylamine | 74 | 4.019 | 3.996 | (0.490) | 8510 | 0.35840 | 0.3584 (M) | |
| 91 Aniline | 93 | 7.704 | 7.689 | (0.939) | 16641 | 0.30355 | 0.3036 | |
| 93 Benzidine | 184 | 20.046 | 20.007 | (0.896) | 15312 | 0.26739 | 0.2674 (M) | |
| 103 Pyridine | 79 | 4.089 | 3.996 | (0.498) | 11188 | 0.15953 | 0.1595 (M) | |
| 105 1-methylnaphthalene | 142 | 12.312 | 12.305 | (1.155) | 14471 | 0.19414 | 0.1941 | |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77 | 15.677 | 15.685 | (1.100) | 16686 | 0.21454 | 0.2145 | |

| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|-------------------------------|-----------|--------|--------|---------|----------|----------------------|------------------|
| | | | | | | ON-COLUMN (ug/mL) | FINAL (ug/mL) |
| 187 Total Benzofluoranthenes | 252 | 24.149 | 24.149 | (0.977) | 40295 | 0.52061 | 0.5206 |
| 120 2,3,4,6-Tetrachlorophenol | 232 | 15.012 | 14.997 | (1.054) | 3401 | 0.13127 | 0.1313 |

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 02-MAR-2023
 Lab File ID: NT1423022850.D Calibration Time: 05:52
 Lab Smp Id: SLB0374-LCV5
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: JGR
 Method File: \\target\share\chem3\nt14.i\20230228.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|--------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 116519 | 58260 | 233038 | 115459 | -0.91 |
| 27 Naphthalene-d8 | 429090 | 214545 | 858180 | 409877 | -4.48 |
| 42 Acenaphthene-d10 | 250637 | 125319 | 501274 | 230328 | -8.10 |
| 59 Phenanthrene-d10 | 458117 | 229059 | 916234 | 417754 | -8.81 |
| 69 Chrysene-d12 | 393468 | 196734 | 786936 | 352830 | -10.33 |
| 134 Di-n-octylphthala | 572636 | 286318 | 1145272 | 499736 | -12.73 |
| 77 Perylene-d12 | 283320 | 141660 | 566640 | 239484 | -15.47 |

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

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

REVIEW SUMMARY FOR FILE - NT1423022850.D

Lab ID: SLB0374-LCV5
nt14.i, ABN.m, 02-MAR-2023 07:04

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT | CCV RRT | DELTA | COMPOUND |
|-------|---------|--------|----------------|
| 1.058 | 1.038 | 0.0199 | Benzyl alcohol |
| 0.498 | 0.487 | 0.0113 | Pyridine |

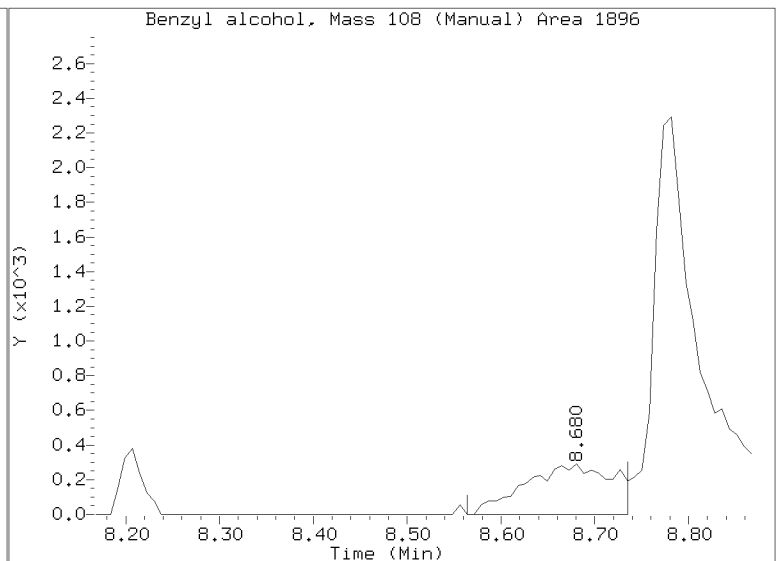
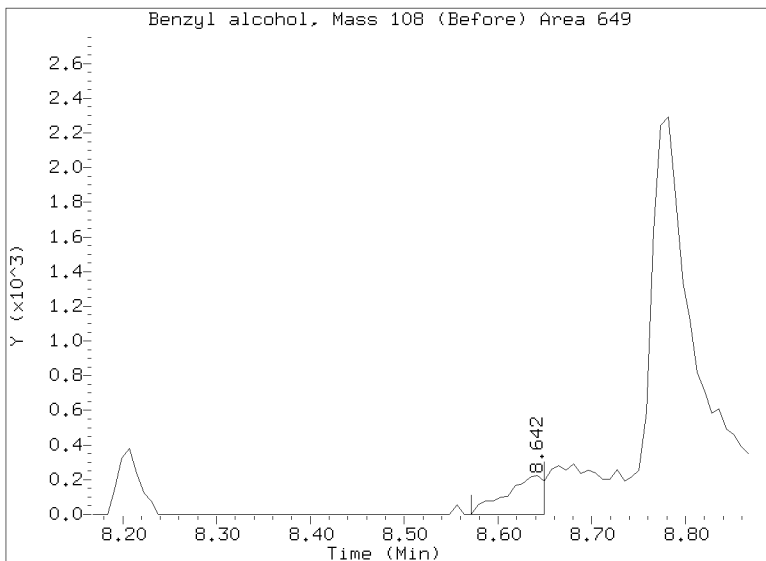
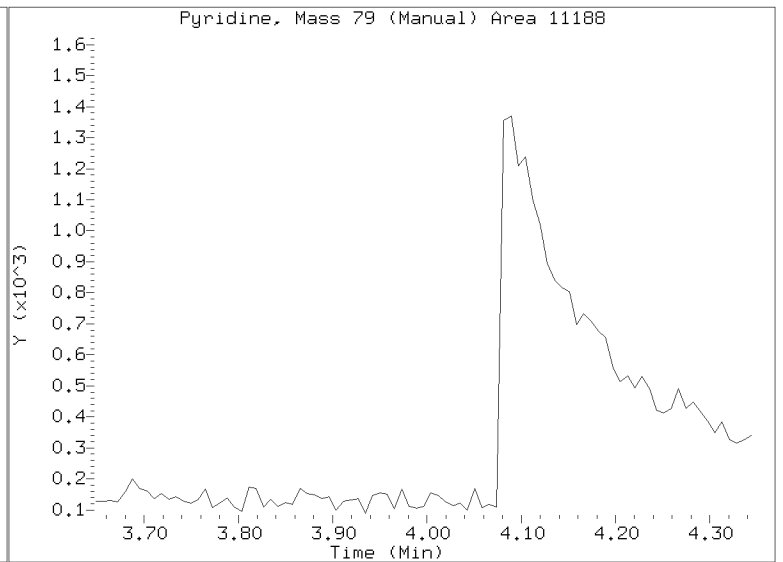
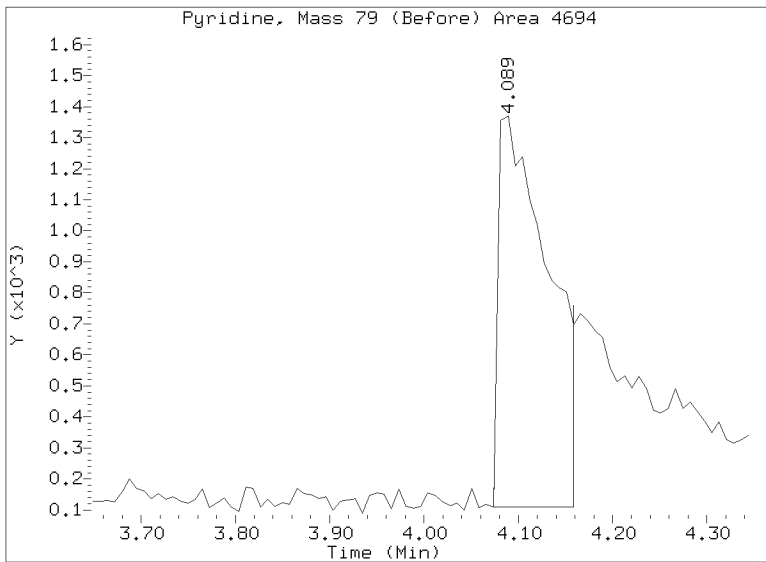
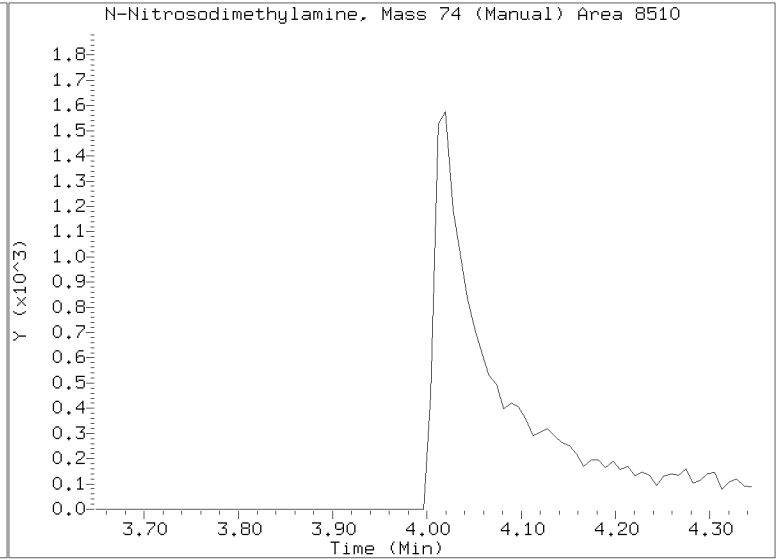
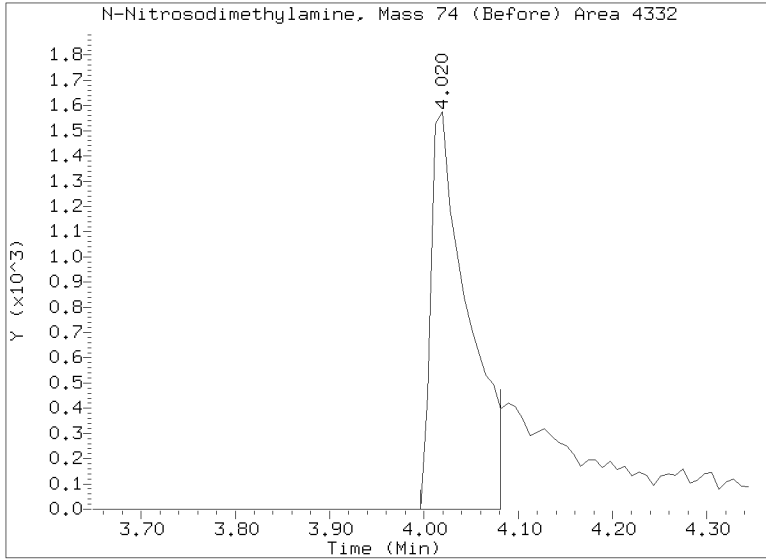
RRT check based on Ccal File: NT1423022848.D

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

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

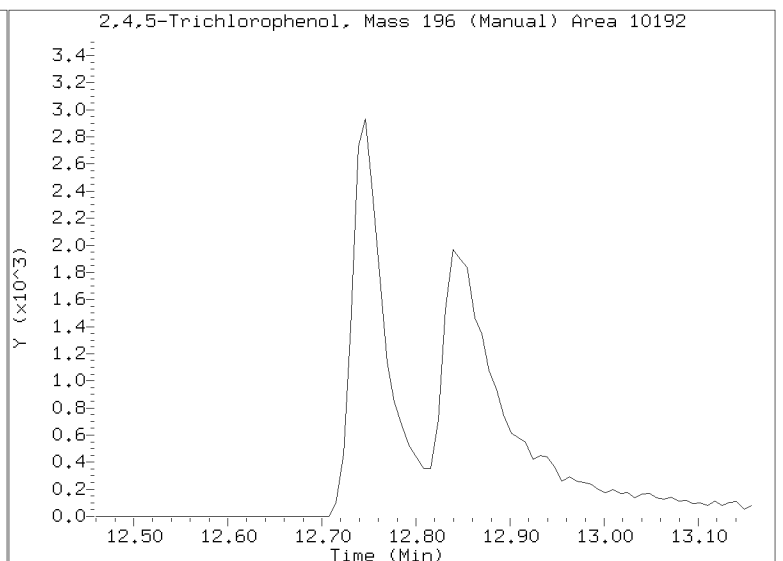
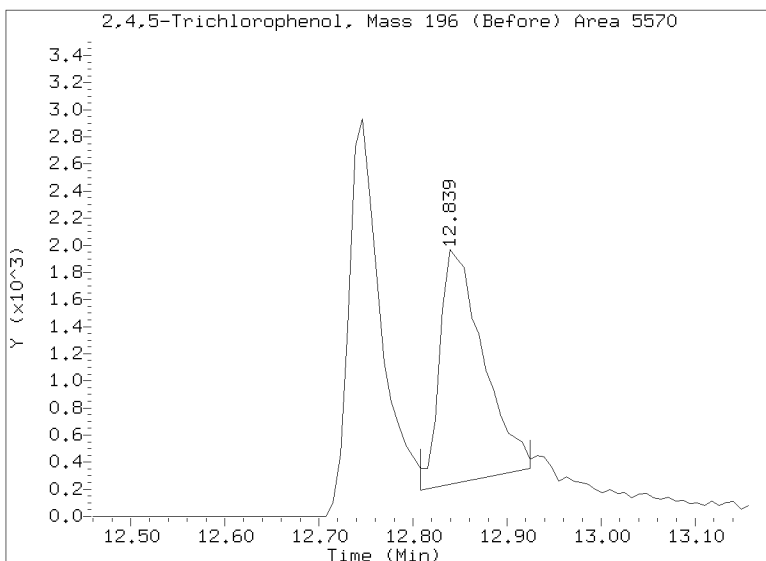
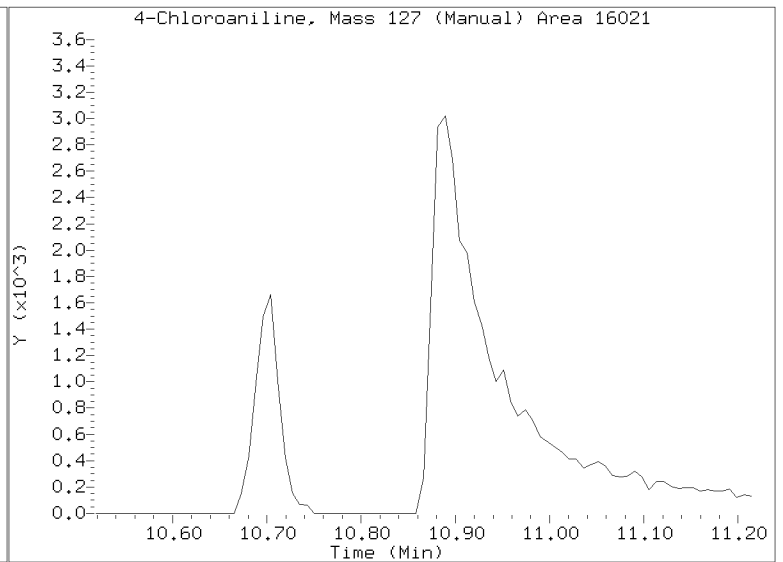
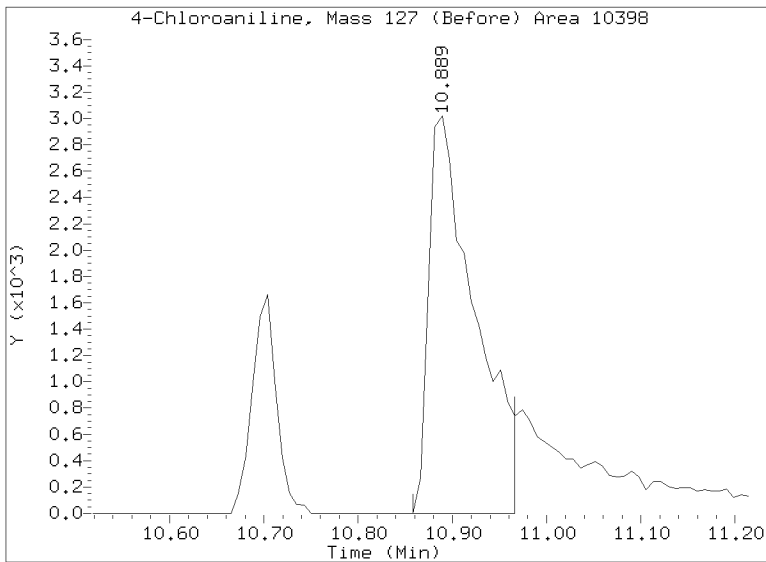
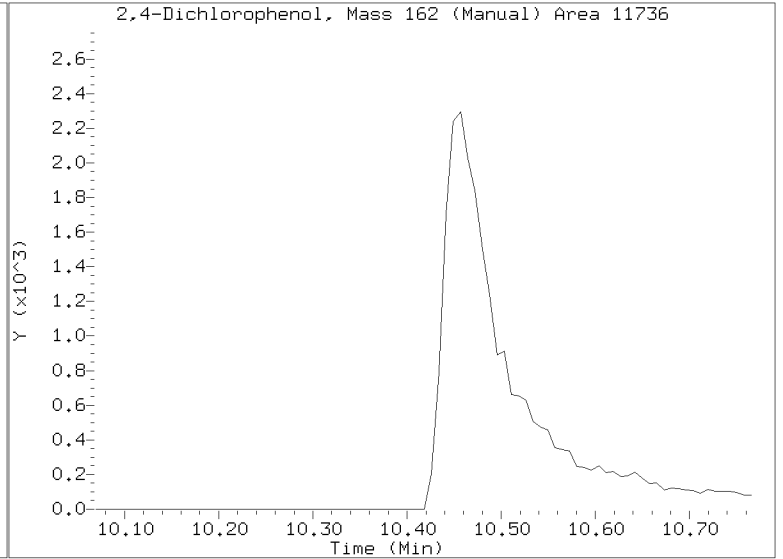
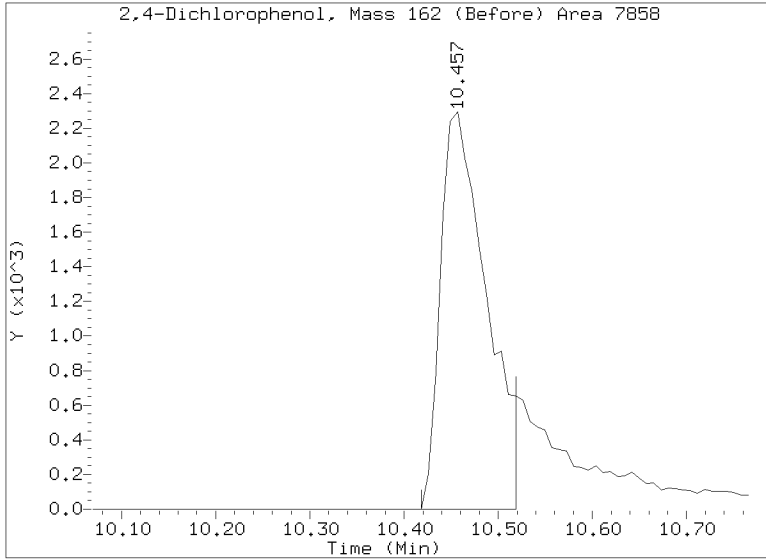
Quant Ion Manual Peak Adjustment Report

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Injection Date: 02-MAR-2023 07:04
Lab ID:SLB0374-LCV5 Client ID:
Report Date: 03/14/2023 08:43



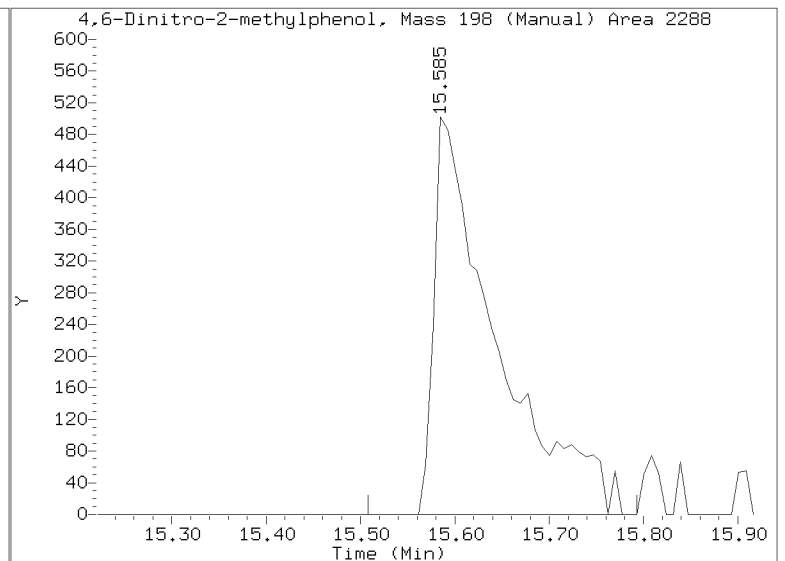
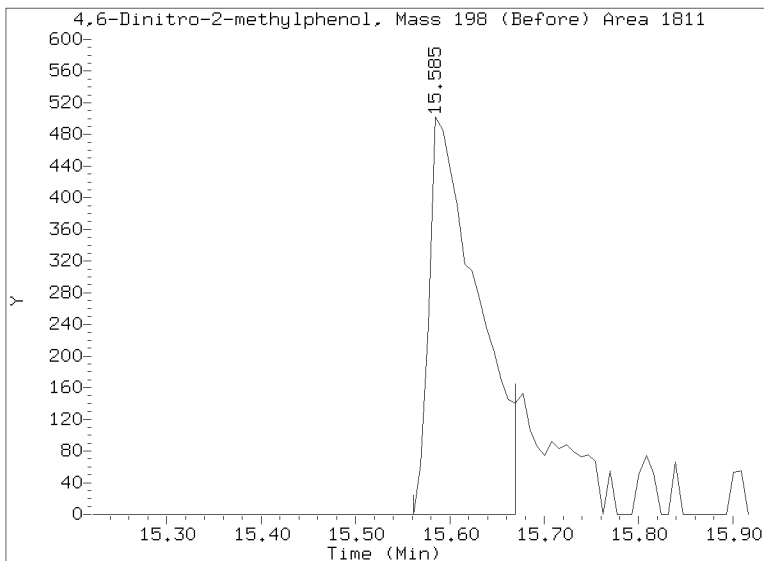
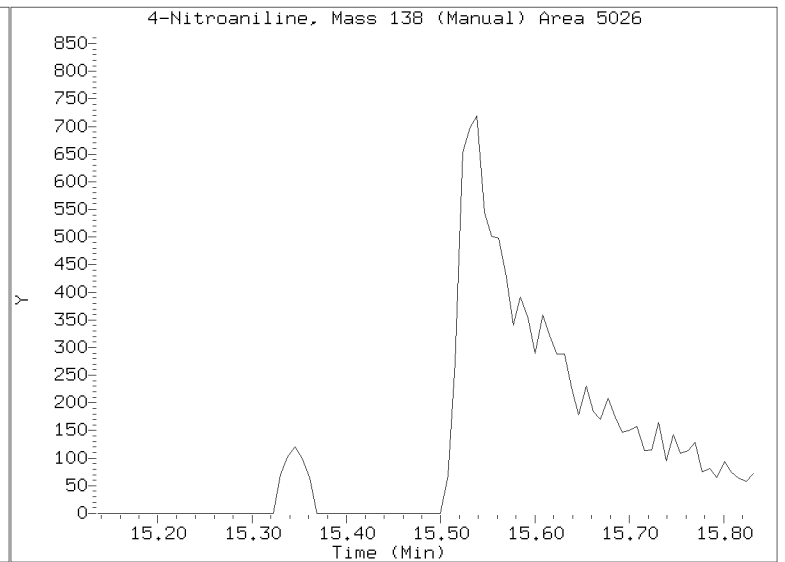
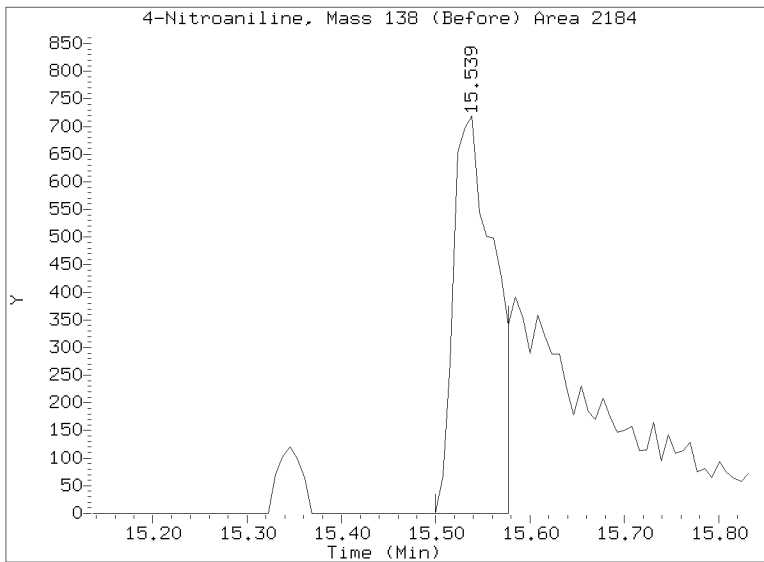
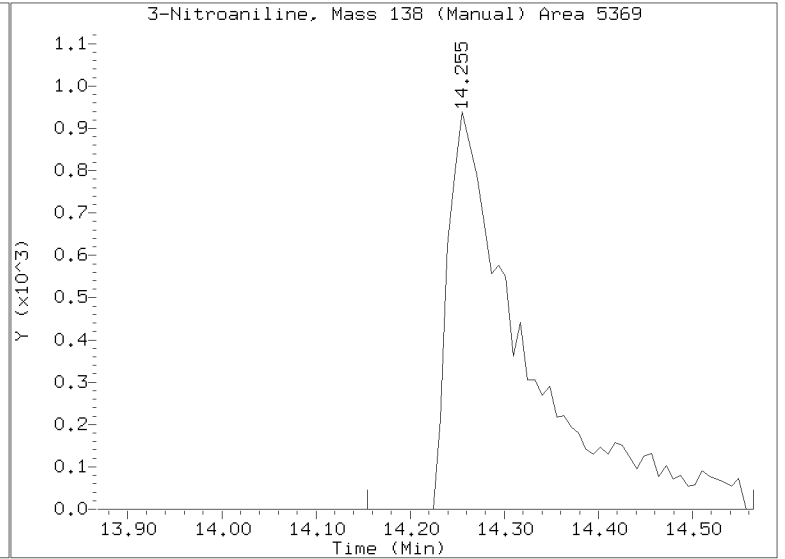
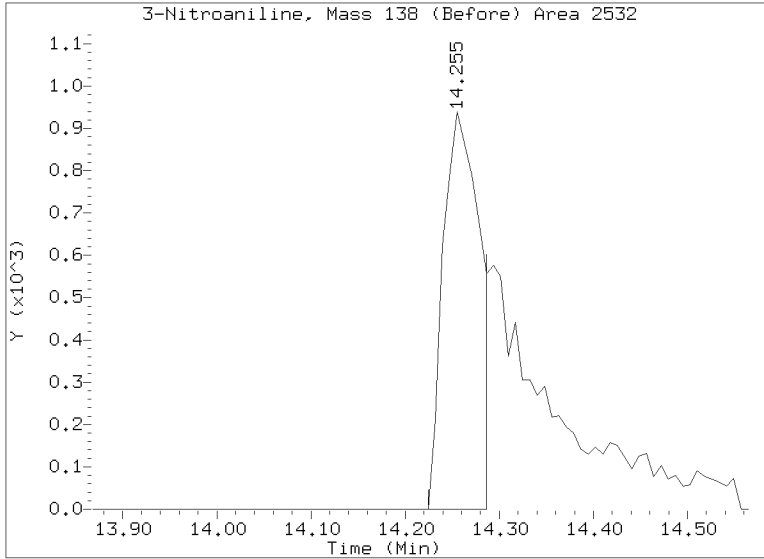
Quant Ion Manual Peak Adjustment Report

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Injection Date: 02-MAR-2023 07:04
Lab ID:SLB0374-LCV5 Client ID:
Report Date: 03/14/2023 08:43



Quant Ion Manual Peak Adjustment Report

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Injection Date: 02-MAR-2023 07:04
Lab ID:SLB0374-LCV5 Client ID:
Report Date: 03/14/2023 08:43



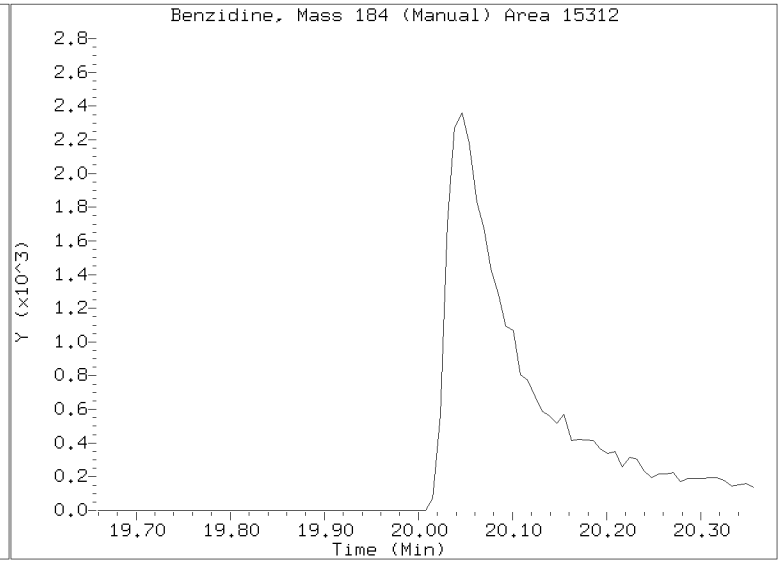
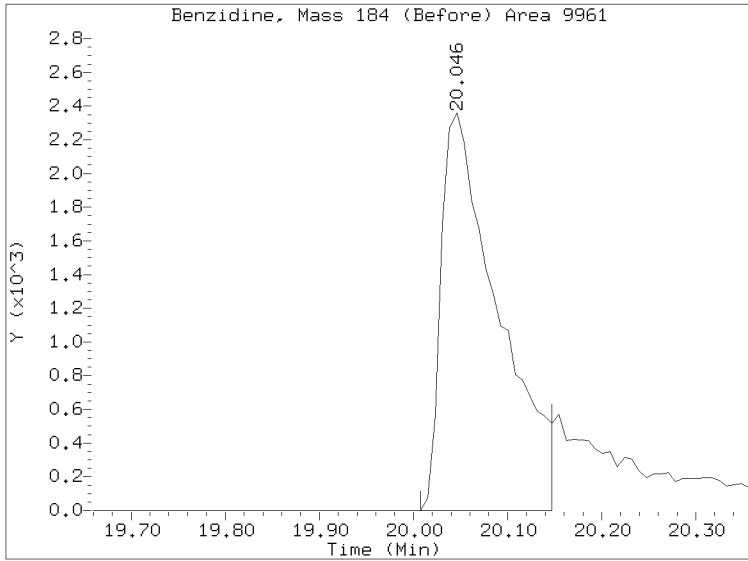
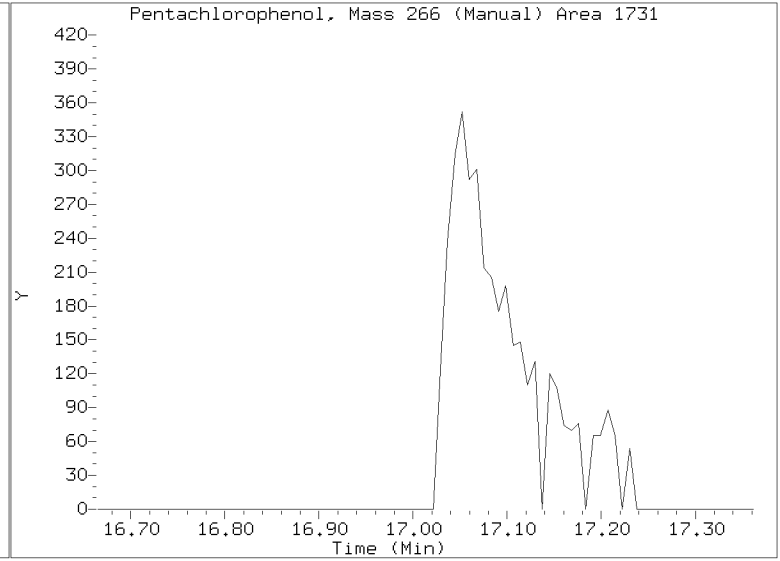
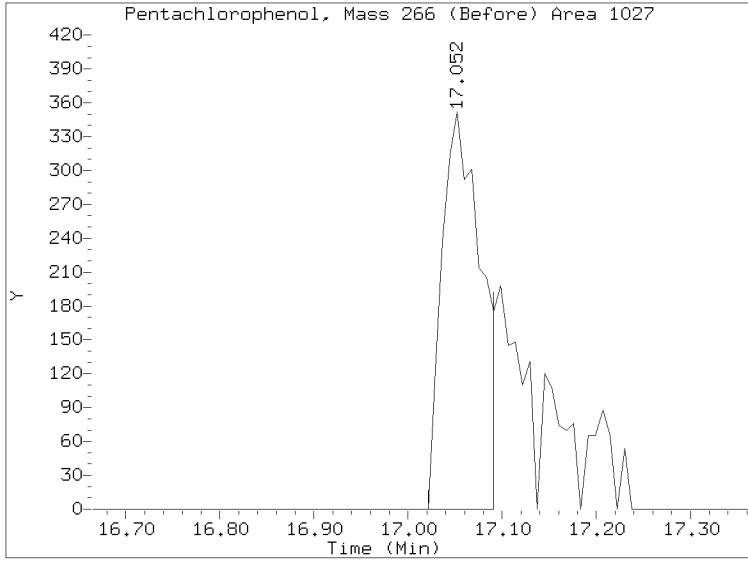
Quant Ion Manual Peak Adjustment Report

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Injection Date: 02-MAR-2023 07:04

Lab ID:SLB0374-LCV5 Client ID:

Report Date: 03/14/2023 08:43





**LOW-CONCENTRATION
CALIBRATION VERIFICATION
EPA 8270E**

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Calibration: GC00033

Laboratory ID: SLB0374-LCV6

Sequence: SLB0374

Standard ID: K011106

| ANALYTE | EXPECTED (ug/mL) | FOUND (ug/mL) | % DRIFT | QC LIMIT |
|------------------------------|---------------------|------------------|---------|----------|
| Phenol | 0.50000 | 0.5 | -0.2 | 50.00 |
| bis(2-chloroethyl) ether | 0.50000 | 0.5 | 8.5 | 50.00 |
| 2-Chlorophenol | 0.50000 | 0.6 | 10.3 | 50.00 |
| 1,3-Dichlorobenzene | 0.50000 | 0.5 | 7.1 | 50.00 |
| 1,4-Dichlorobenzene | 0.50000 | 0.5 | 6.5 | 50.00 |
| 1,2-Dichlorobenzene | 0.50000 | 0.5 | 5.1 | 50.00 |
| Benzyl Alcohol | 0.50000 | 0.3 | -44.5 | 50.00 |
| 2,2'-Oxybis(1-chloropropane) | 0.50000 | 0.5 | 7.5 | 50.00 |
| 2-Methylphenol | 0.50000 | 0.5 | 2.3 | 50.00 |
| Hexachloroethane | 0.50000 | 0.4 | -22.0 | 50.00 |
| N-Nitroso-di-n-Propylamine | 0.50000 | 0.6 | 22.5 | 50.00 |
| 4-Methylphenol | 0.50000 | 0.4 | -17.8 | 50.00 |
| Nitrobenzene | 0.50000 | 0.5 | 8.5 | 50.00 |
| Isophorone | 0.50000 | 0.5 | -0.2 | 50.00 |
| 2-Nitrophenol | 0.50000 | 0.5 | -6.3 | 50.00 |
| 2,4-Dimethylphenol | 1.0000 | 1.0 | 3.3 | 50.00 |
| Bis(2-Chloroethoxy)methane | 0.50000 | 0.5 | 0.3 | 50.00 |
| 2,4-Dichlorophenol | 1.0000 | 0.8 | -22.4 | 50.00 |
| 1,2,4-Trichlorobenzene | 0.50000 | 0.5 | -2.2 | 50.00 |
| Naphthalene | 0.50000 | 0.5 | 5.9 | 50.00 |
| Benzoic acid | 2.0000 | 1.1 | -45.6 | 50.00 |
| 4-Chloroaniline | 1.0000 | 0.9 | -13.7 | 50.00 |
| Hexachlorobutadiene | 0.50000 | 0.4 | -12.2 | 50.00 |
| 4-Chloro-3-Methylphenol | 1.0000 | 1.0 | -1.0 | 50.00 |
| 2-Methylnaphthalene | 0.50000 | 0.5 | -0.8 | 50.00 |
| Hexachlorocyclopentadiene | 1.0000 | 0.006 | -99.4 * | 50.00 |
| 2,4,6-Trichlorophenol | 1.0000 | 0.9 | -7.9 | 50.00 |
| 2,4,5-Trichlorophenol | 1.0000 | 0.9 | -6.7 | 50.00 |
| 2-Chloronaphthalene | 0.50000 | 0.5 | 4.2 | 50.00 |



**LOW-CONCENTRATION
CALIBRATION VERIFICATION
EPA 8270E**

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Calibration: GC00033

Laboratory ID: SLB0374-LCV6

Sequence: SLB0374

Standard ID: K011106

| | | | | |
|----------------------------|---------|-----|---------|-------|
| 2-Nitroaniline | 1.0000 | 1.1 | 9.5 | 50.00 |
| Acenaphthylene | 0.50000 | 0.6 | 13.2 | 50.00 |
| Dimethylphthalate | 0.50000 | 0.6 | 11.3 | 50.00 |
| 2,6-Dinitrotoluene | 1.0000 | 1.0 | 3.4 | 50.00 |
| Acenaphthene | 0.50000 | 0.5 | 6.0 | 50.00 |
| 3-Nitroaniline | 1.0000 | 0.8 | -22.3 | 50.00 |
| 2,4-Dinitrophenol | 2.0000 | 0.4 | -81.8 * | 50.00 |
| Dibenzofuran | 0.50000 | 0.5 | 0.6 | 50.00 |
| 4-Nitrophenol | 1.0000 | 0.8 | -17.1 | 50.00 |
| 2,4-Dinitrotoluene | 1.0000 | 0.9 | -9.7 | 50.00 |
| Fluorene | 0.50000 | 0.5 | 8.5 | 50.00 |
| 4-Chlorophenylphenyl ether | 0.50000 | 0.5 | 0.2 | 50.00 |
| Diethyl phthalate | 0.50000 | 0.6 | 12.5 | 50.00 |
| 4-Nitroaniline | 1.0000 | 0.7 | -26.3 | 50.00 |
| 4,6-Dinitro-2-methylphenol | 2.0000 | 0.7 | -66.0 * | 50.00 |
| N-Nitrosodiphenylamine | 0.50000 | 0.6 | 13.3 | 50.00 |
| 4-Bromophenyl phenyl ether | 0.50000 | 0.5 | 1.2 | 50.00 |
| Hexachlorobenzene | 0.50000 | 0.5 | 3.4 | 50.00 |
| Pentachlorophenol | 1.0000 | 0.6 | -44.7 | 50.00 |
| Phenanthrene | 0.50000 | 0.5 | 3.5 | 50.00 |
| Anthracene | 0.50000 | 0.5 | 5.3 | 50.00 |
| Carbazole | 0.50000 | 0.5 | 0.2 | 50.00 |
| Di-n-Butylphthalate | 0.50000 | 0.5 | 3.0 | 50.00 |
| Fluoranthene | 0.50000 | 0.5 | -6.8 | 50.00 |
| Pyrene | 0.50000 | 0.5 | -6.8 | 50.00 |
| Butylbenzylphthalate | 0.50000 | 0.5 | 3.1 | 50.00 |
| Benzo(a)anthracene | 0.50000 | 0.5 | 9.9 | 50.00 |
| 3,3'-Dichlorobenzidine | 1.5000 | 1.8 | 22.4 | 50.00 |
| Chrysene | 0.50000 | 0.5 | 7.6 | 50.00 |
| bis(2-Ethylhexyl)phthalate | 0.50000 | 0.5 | -9.2 | 50.00 |
| Di-n-Octylphthalate | 0.50000 | 0.5 | 0.1 | 50.00 |



**LOW-CONCENTRATION
CALIBRATION VERIFICATION
EPA 8270E**

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Calibration: GC00033

Laboratory ID: SLB0374-LCV6

Sequence: SLB0374

Standard ID: K011106

| | | | | |
|---------------------------|---------|-------|---------|-------|
| Benzofluoranthenes, Total | 1.0000 | 1.3 | 26.6 | 50.00 |
| Benzo(a)pyrene | 0.50000 | 0.5 | 8.3 | 50.00 |
| Indeno(1,2,3-cd)pyrene | 0.50000 | 0.2 | -54.3 * | 50.00 |
| Dibenzo(a,h)anthracene | 0.50000 | 0.3 | -50.0 | 50.00 |
| Benzo(g,h,i)perylene | 0.50000 | 0.2 | -63.5 * | 50.00 |
| 1-Methylnaphthalene | 0.50000 | 0.5 | -2.2 | 50.00 |
| 2-Fluorophenol | 0.75000 | 0.695 | -7.4 | 50.00 |
| Phenol-d5 | 0.75000 | 0.802 | 6.9 | 50.00 |
| 2-Chlorophenol-d4 | 0.75000 | 0.851 | 13.4 | 50.00 |
| 1,2-Dichlorobenzene-d4 | 0.50000 | 0.509 | 1.8 | 50.00 |
| Nitrobenzene-d5 | 0.50000 | 0.552 | 10.4 | 50.00 |
| 2-Fluorobiphenyl | 0.50000 | 0.524 | 4.9 | 50.00 |
| 2,4,6-Tribromophenol | 0.75000 | 0.580 | -22.6 | 50.00 |
| p-Terphenyl-d14 | 0.50000 | 0.462 | -7.6 | 50.00 |

* Values outside of QC limits

Data File: \\target\share\chem3\nt14,1\20230228,16\NT1423022851.D

Date: 02-MAR-2023 07:40

Client ID:

Sample Info: SLB0374-LCW6

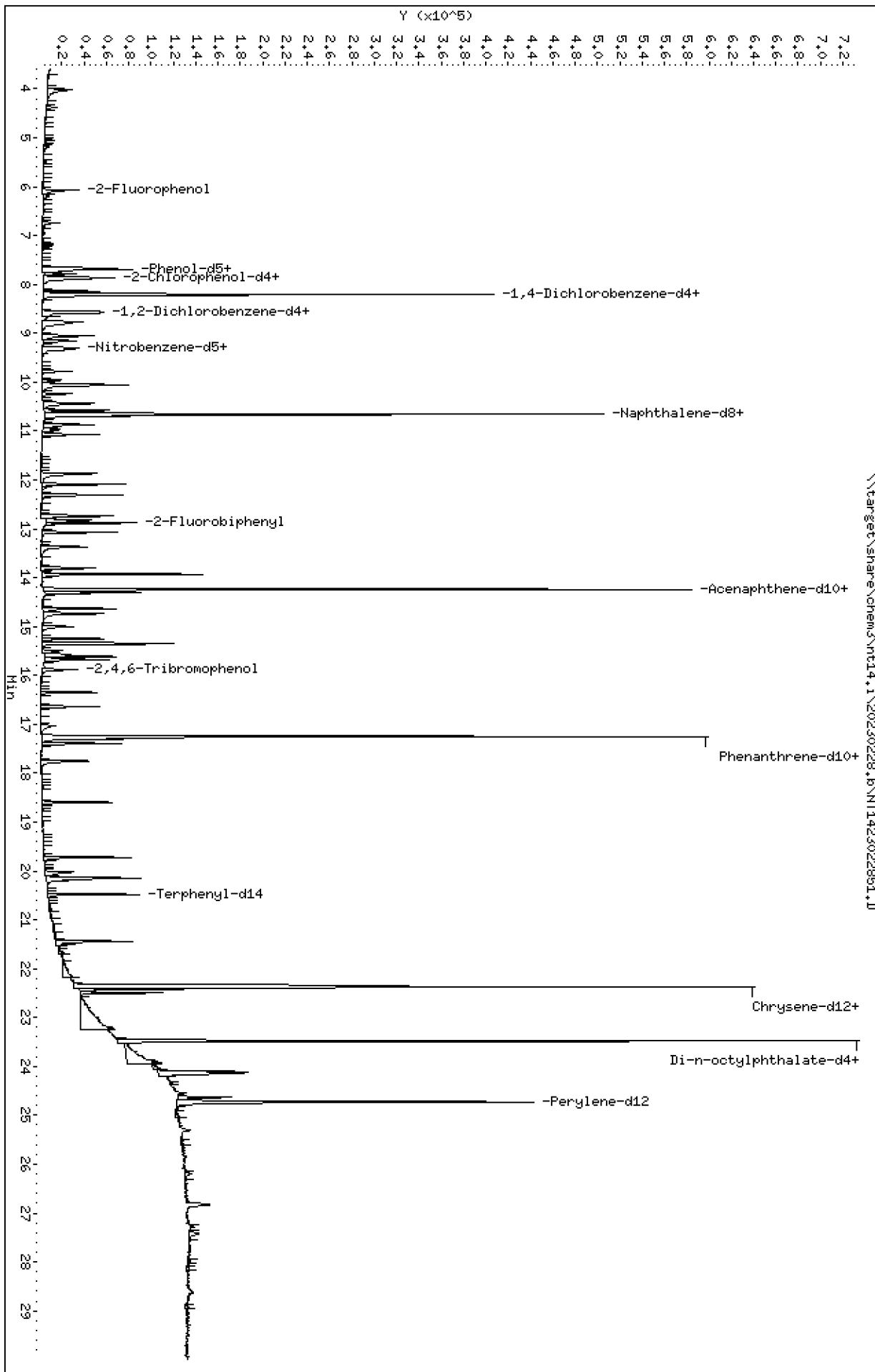
Column phase: ZB-5msi

Instrument: nt14,1

Operator: JGR

Column diameter: 0.25

\\target\share\chem3\nt14,1\20230228,16\NT1423022851.D



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

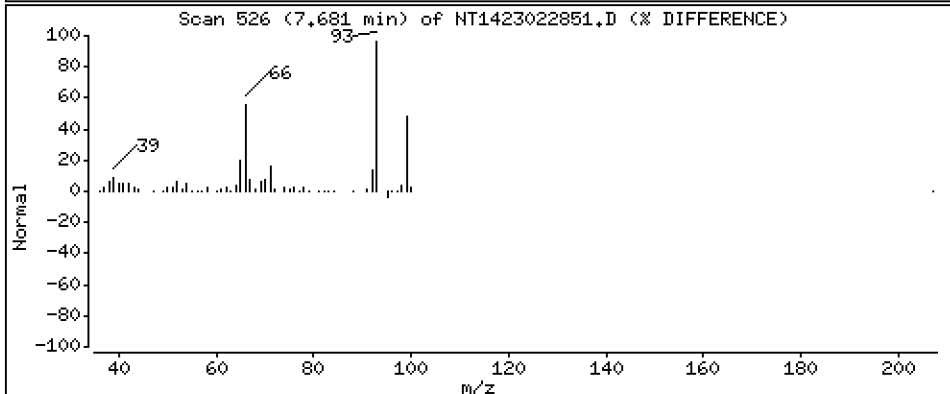
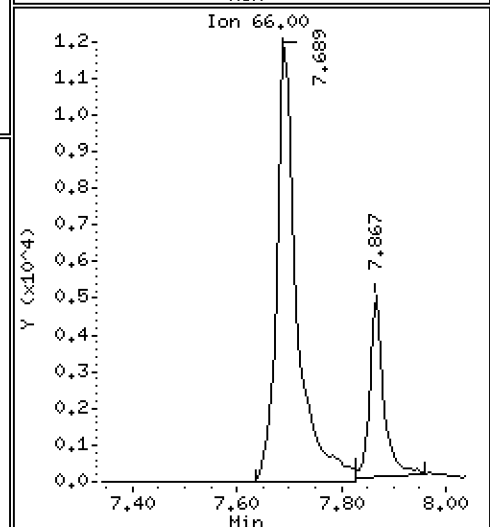
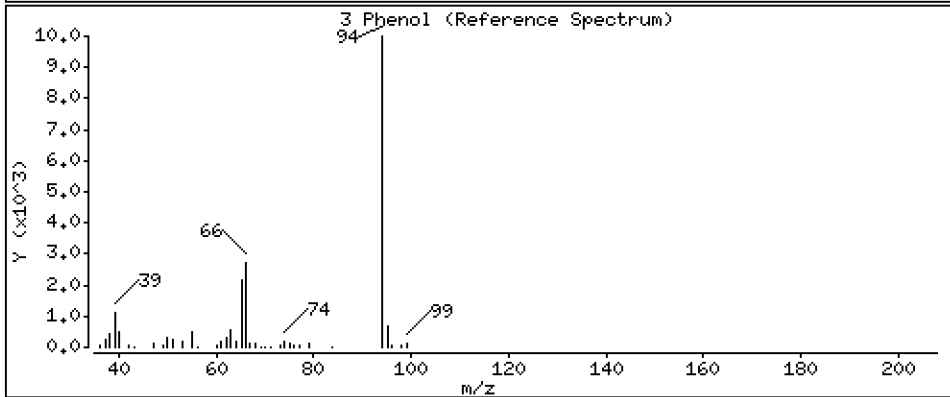
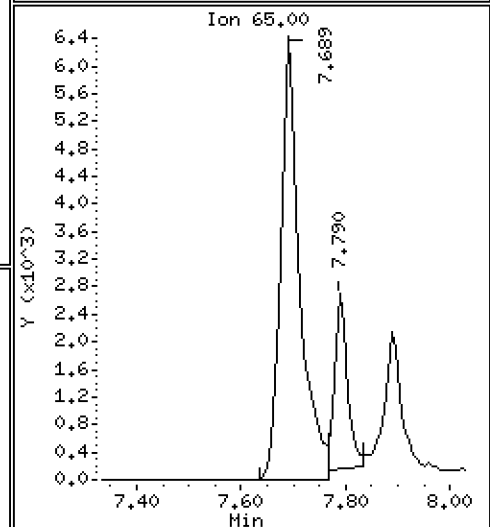
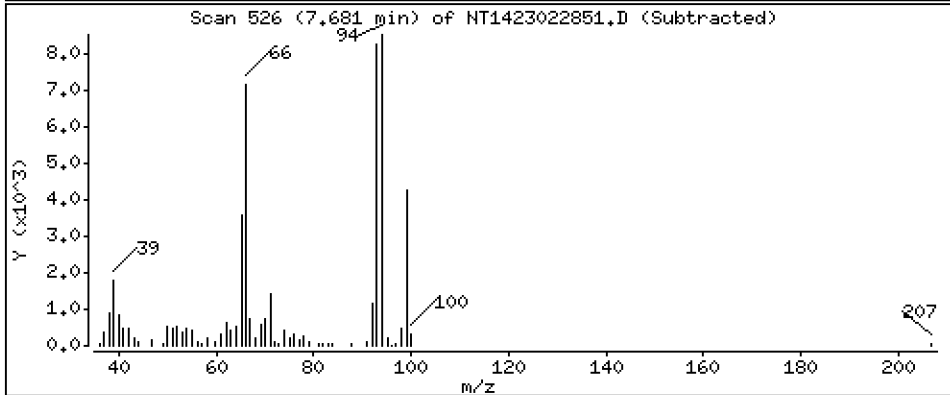
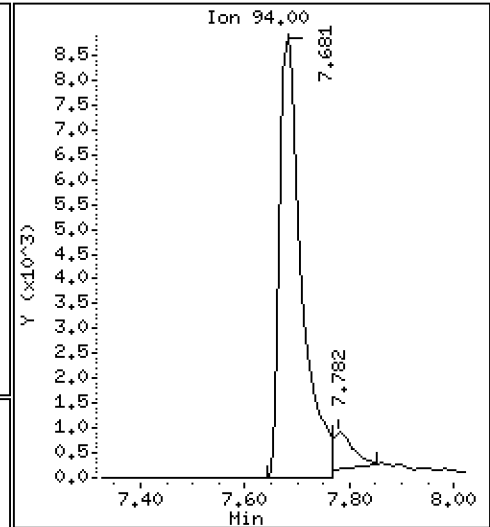
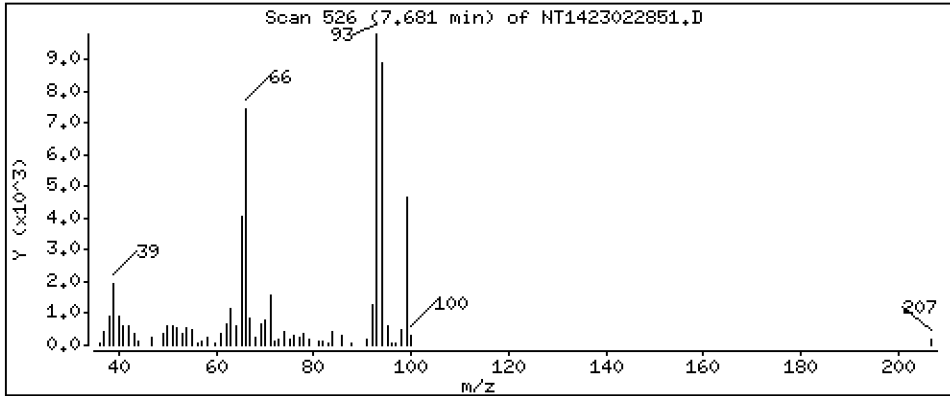
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

3 Phenol

Concentration: 0.4990 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

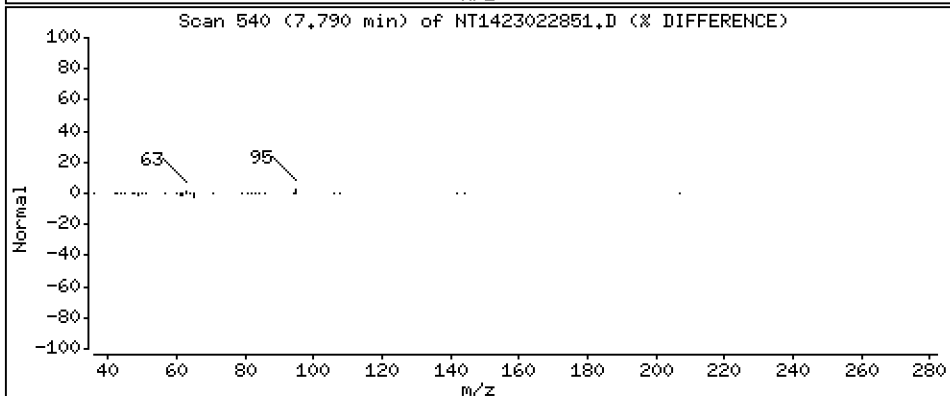
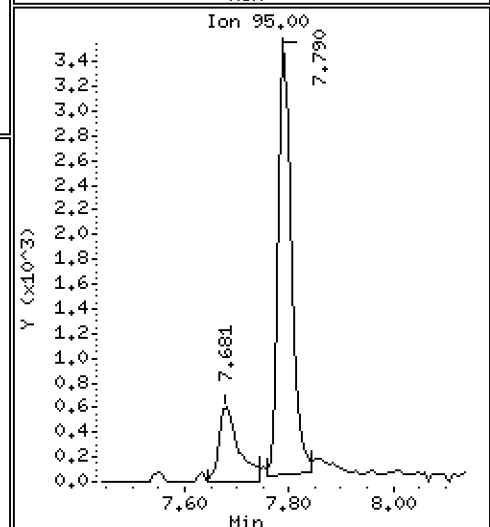
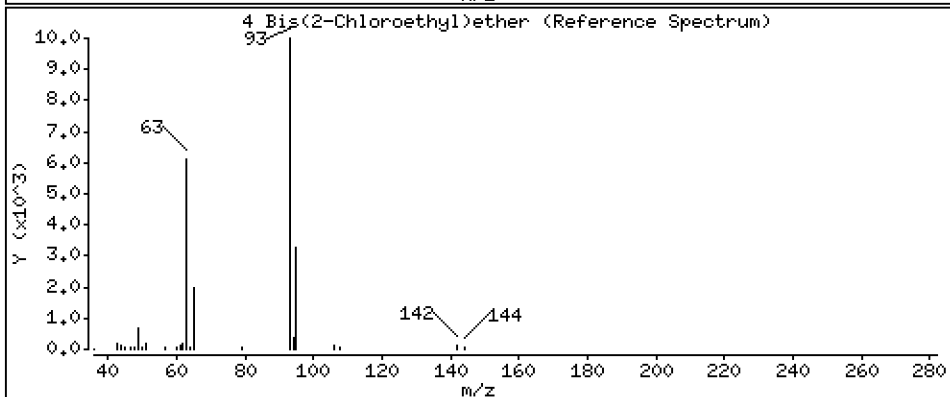
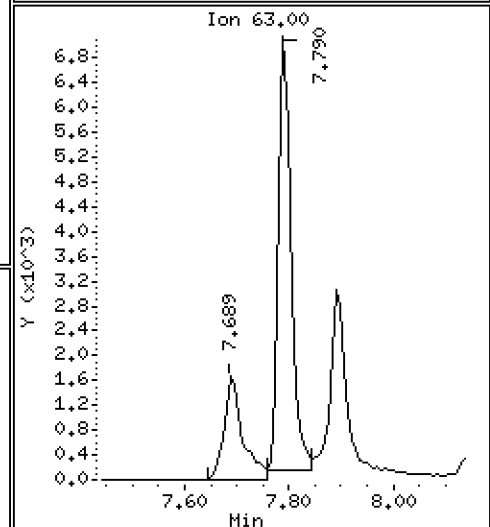
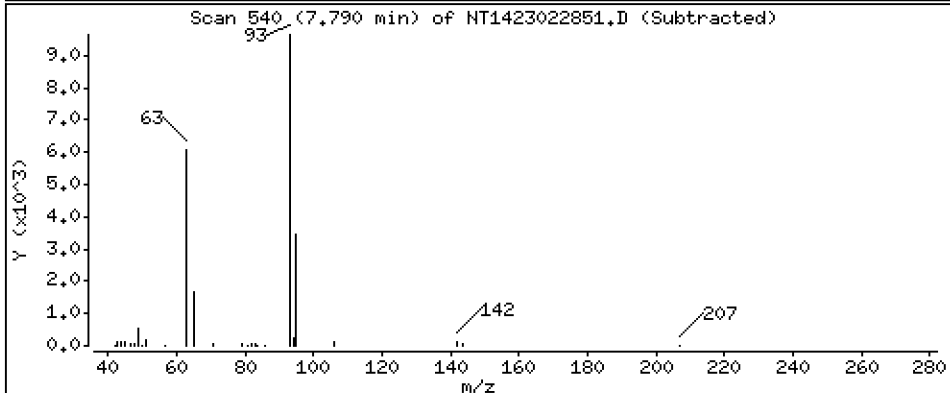
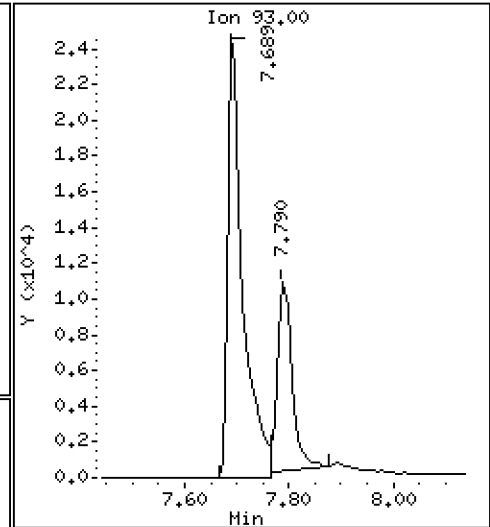
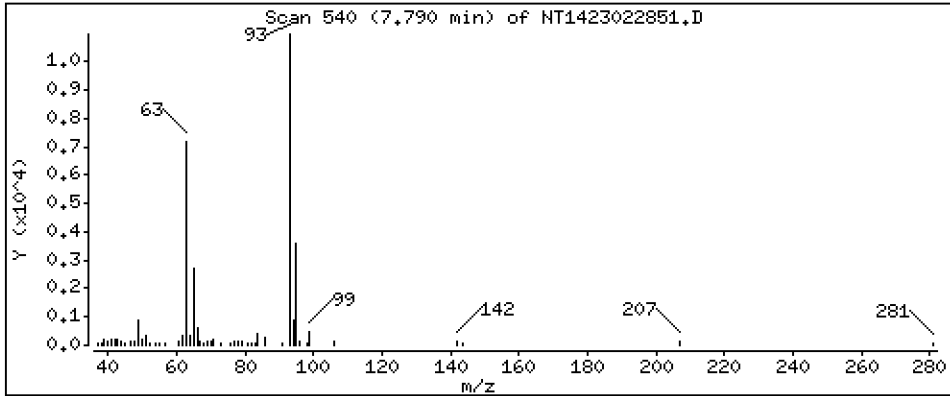
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

4 Bis(2-Chloroethyl)ether

Concentration: 0,5427 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

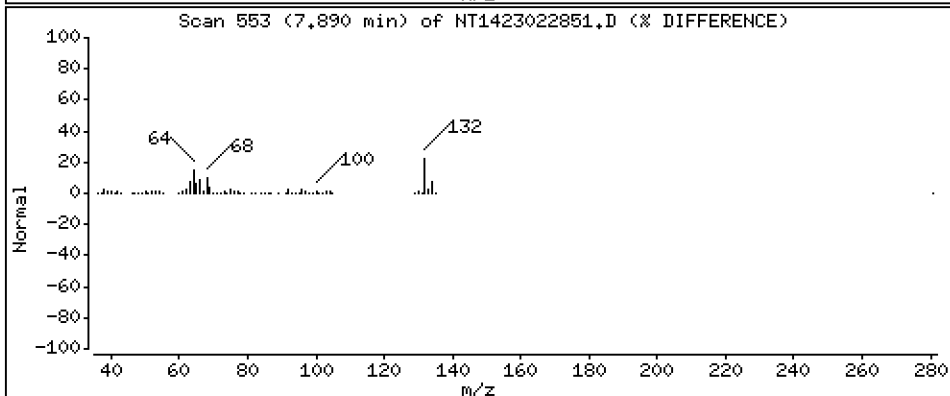
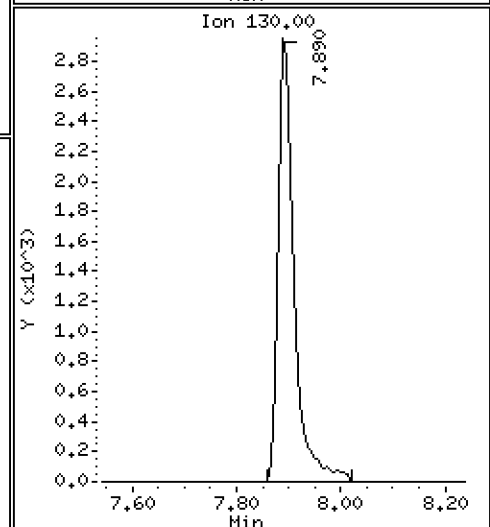
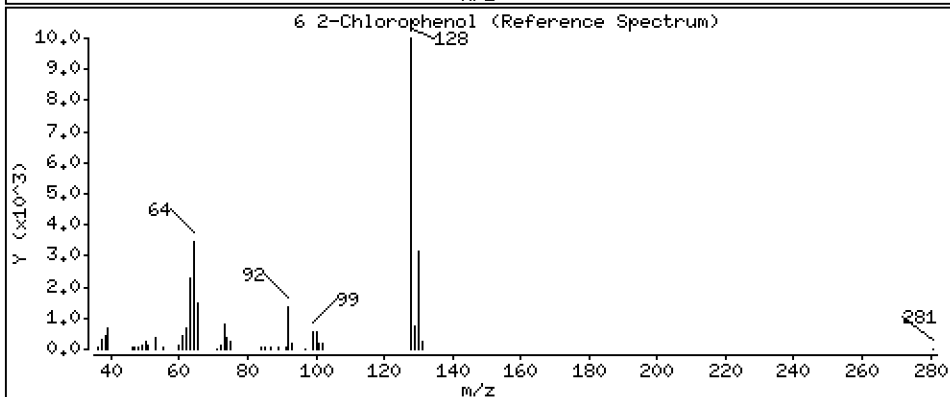
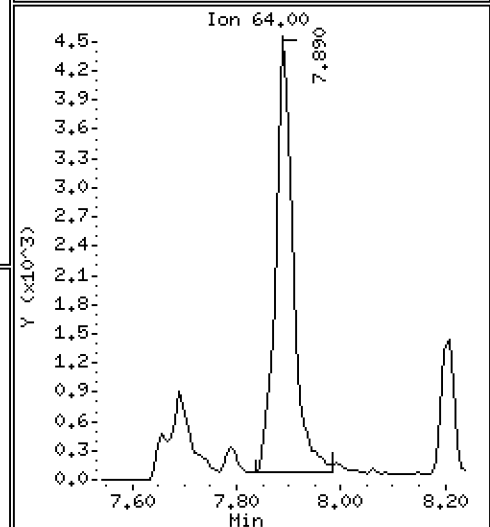
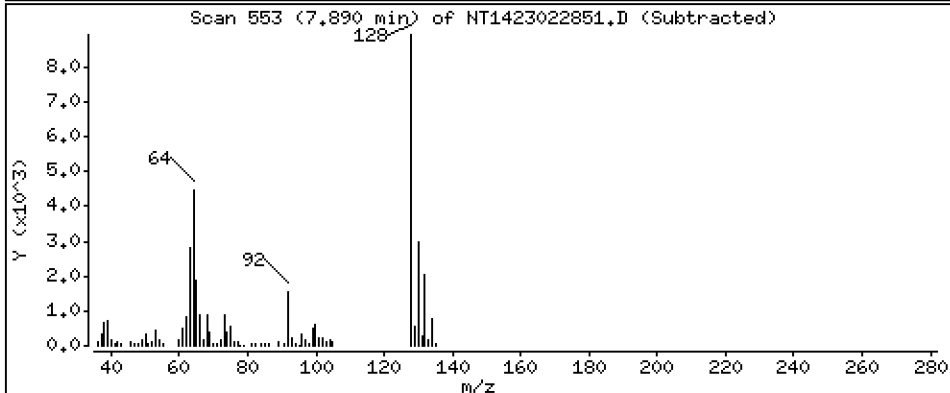
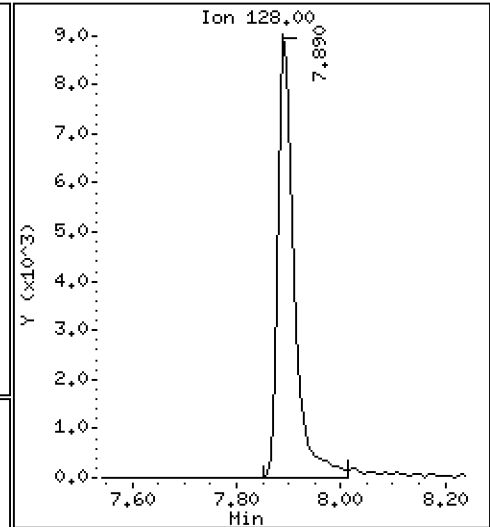
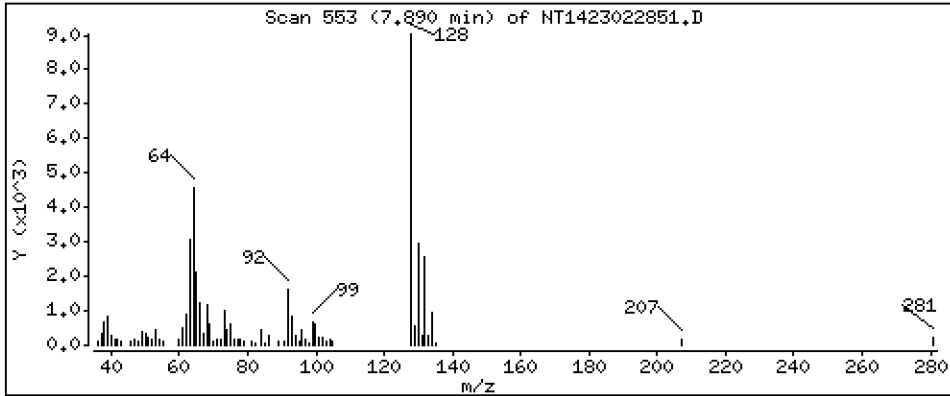
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 0,5513 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

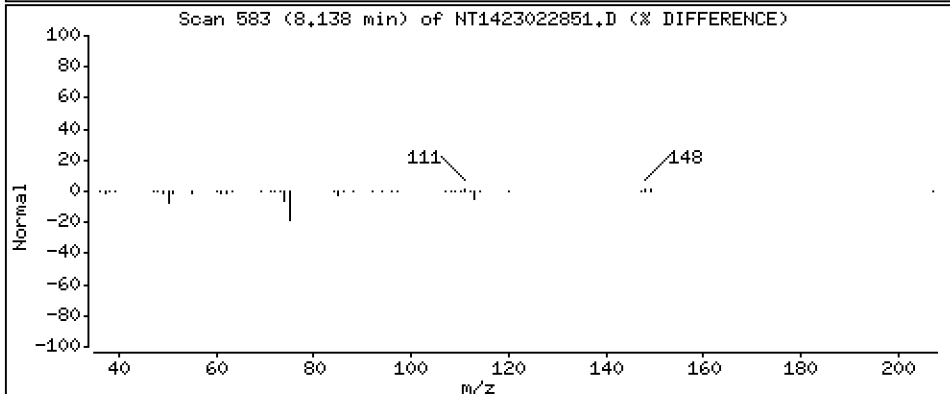
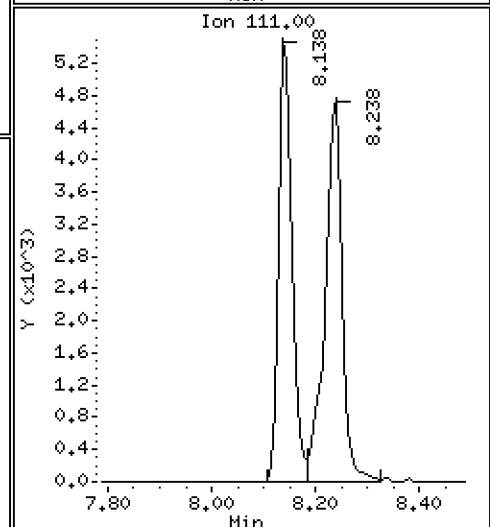
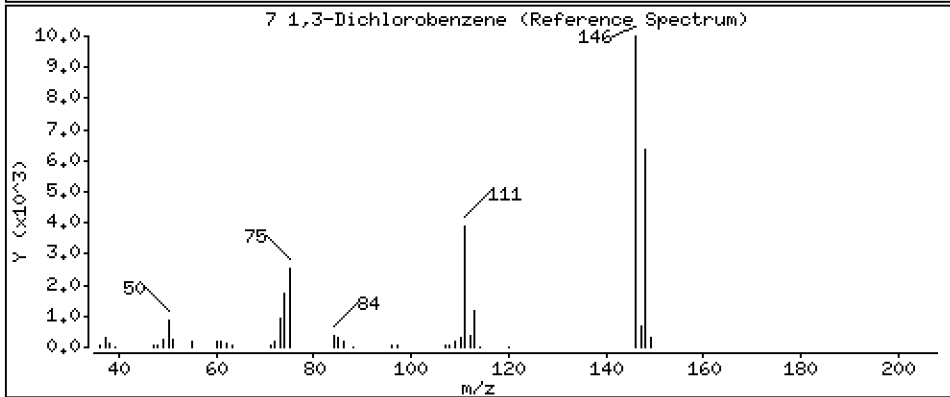
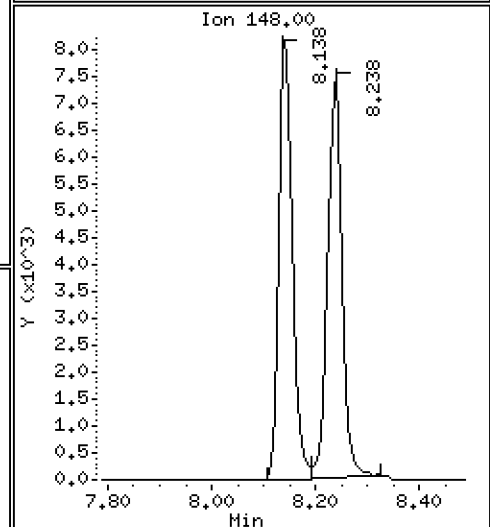
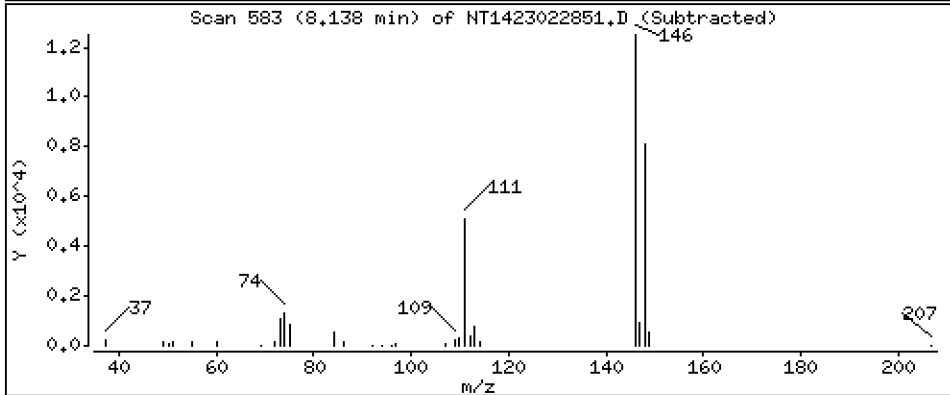
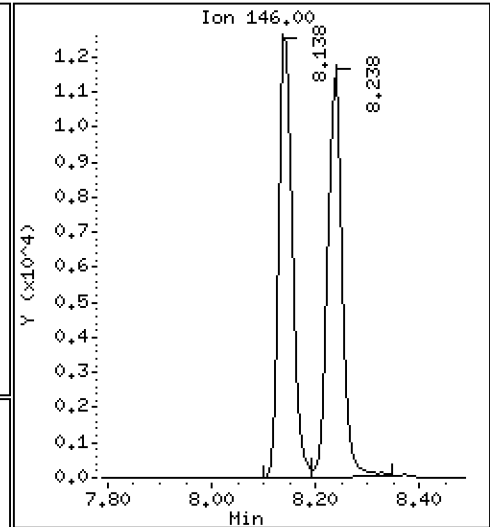
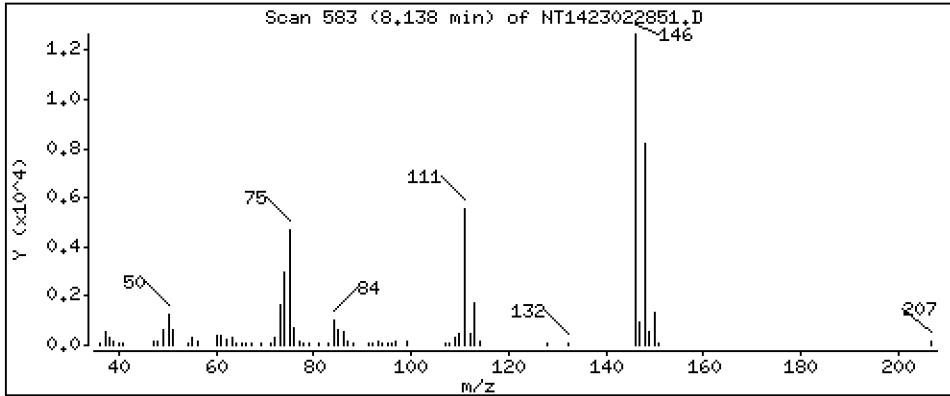
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

7 1,3-Dichlorobenzene

Concentration: 0.5357 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

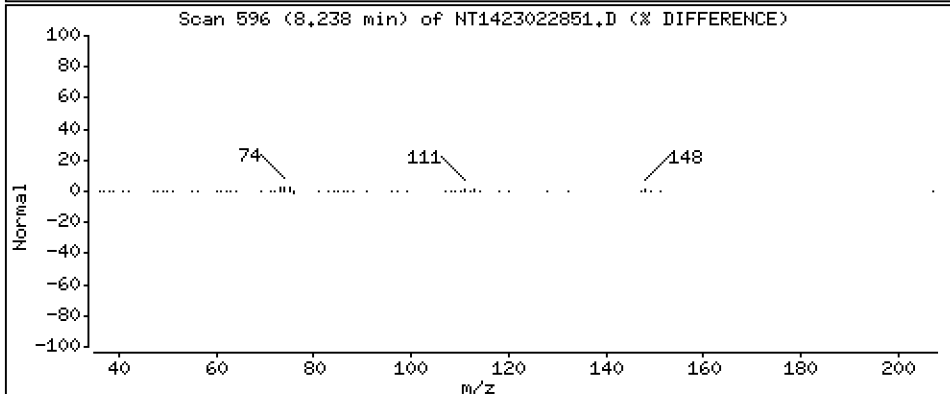
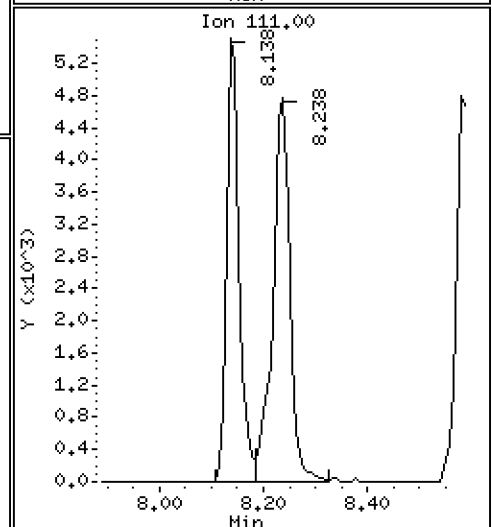
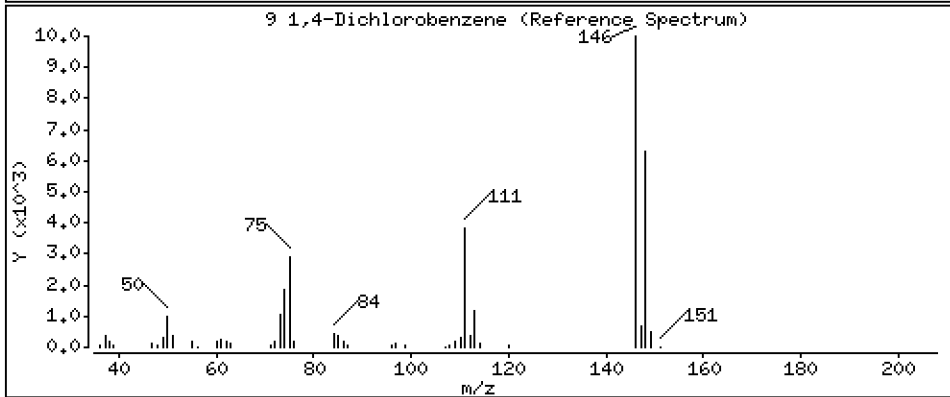
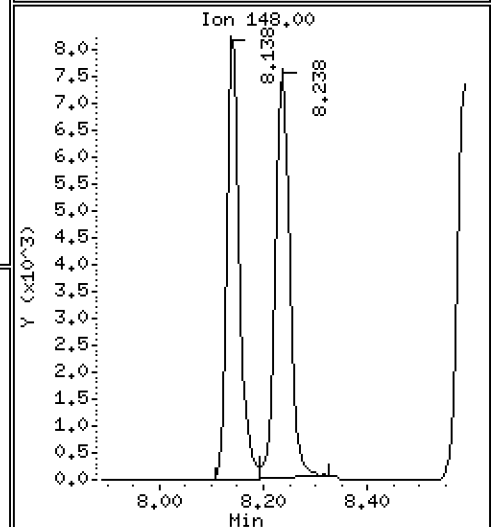
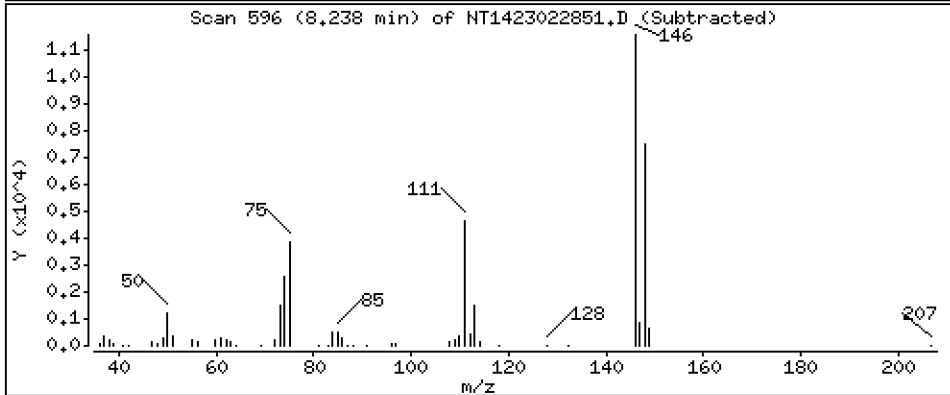
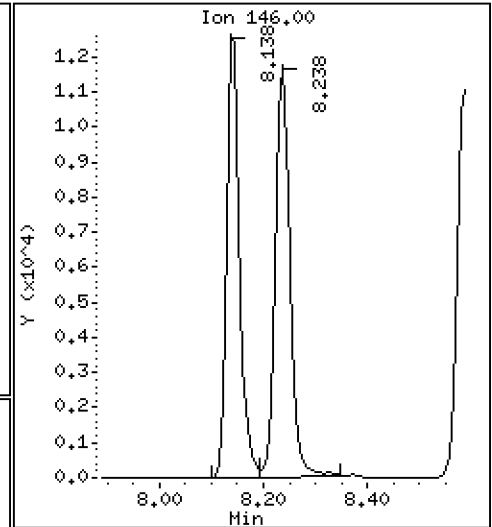
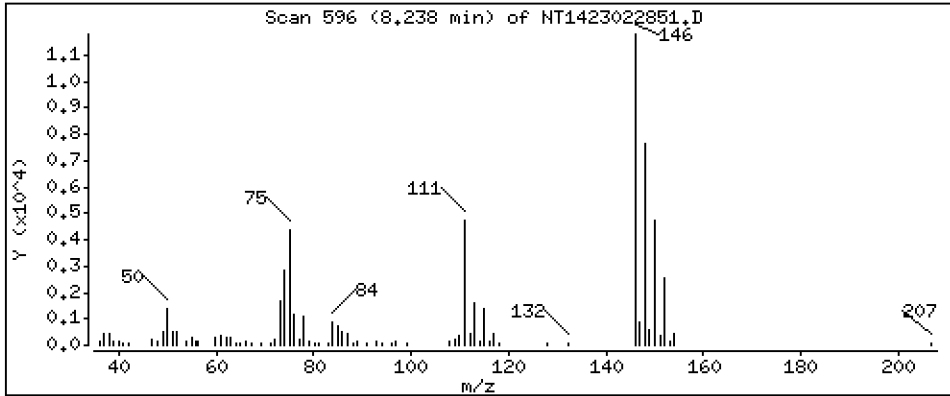
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

9 1,4-Dichlorobenzene

Concentration: 0.5325 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

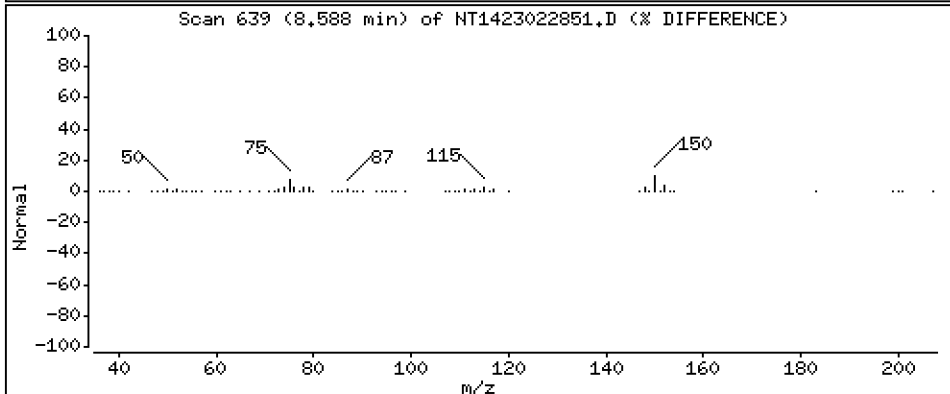
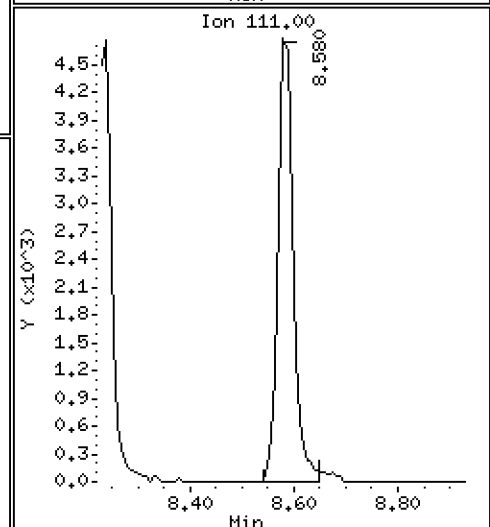
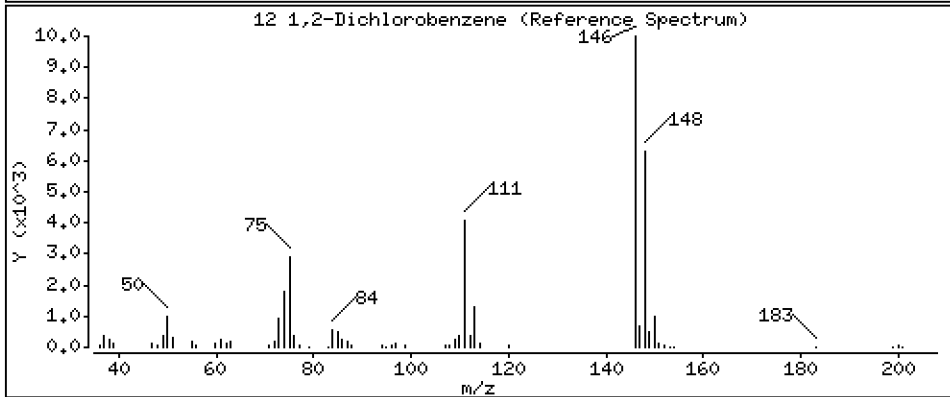
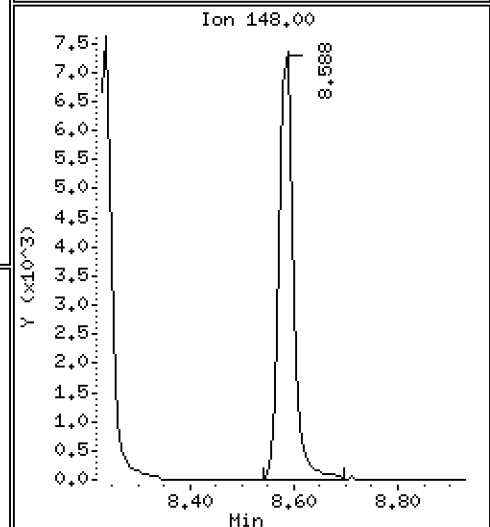
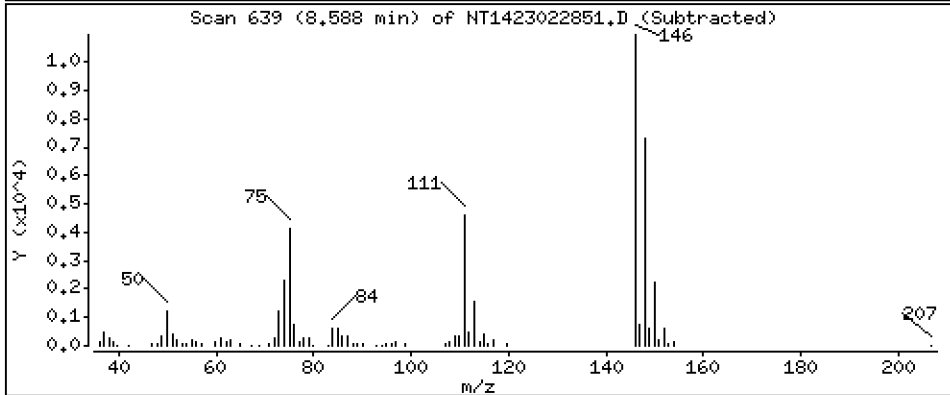
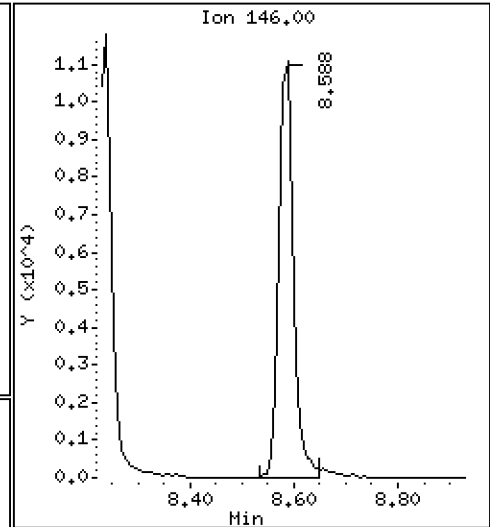
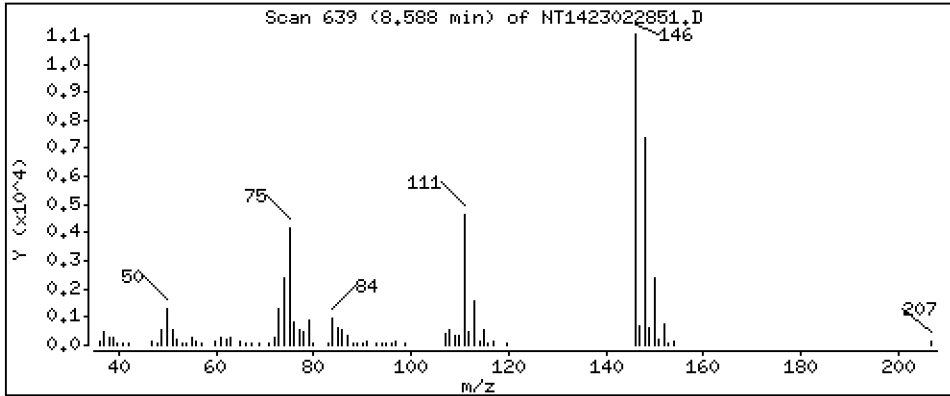
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

12 1,2-Dichlorobenzene

Concentration: 0.5253 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

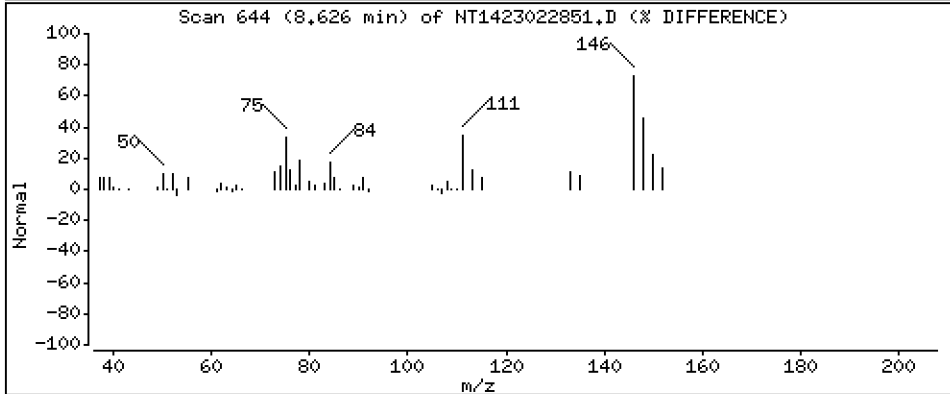
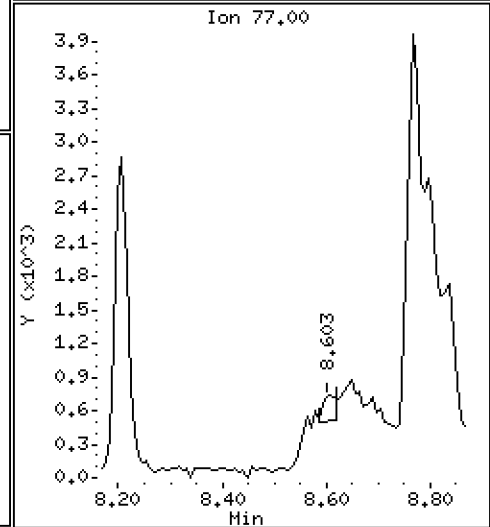
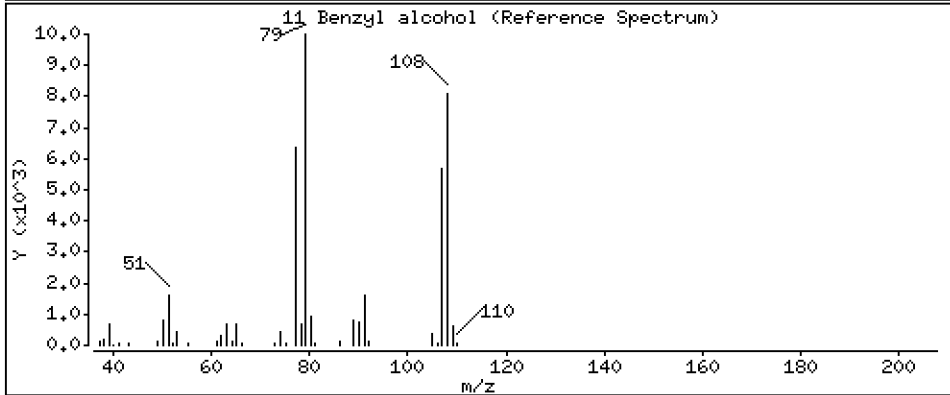
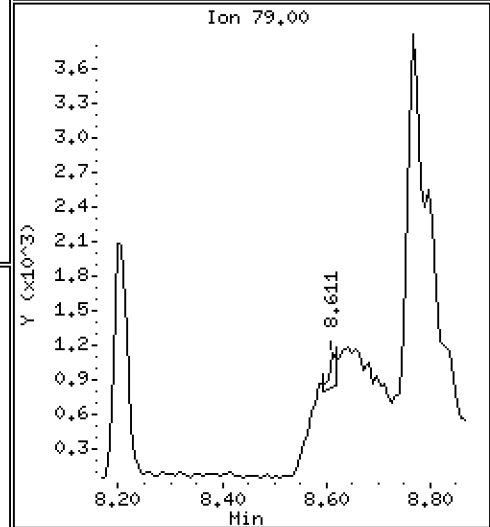
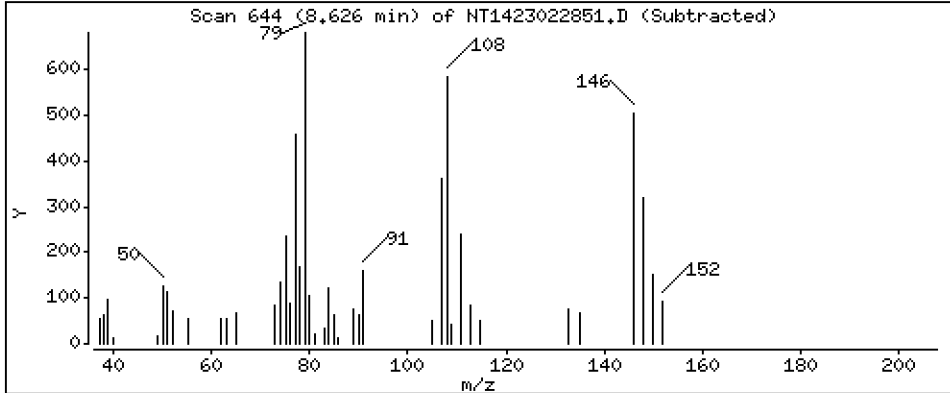
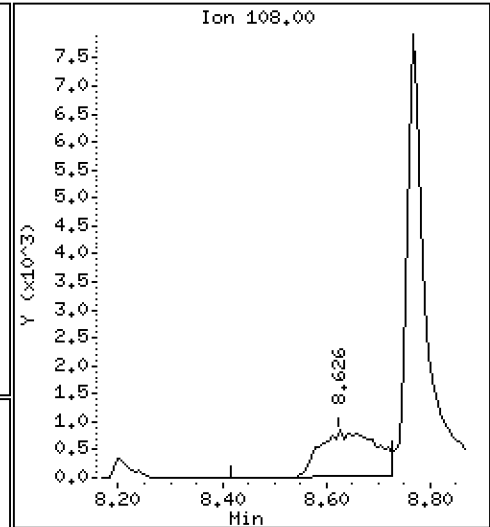
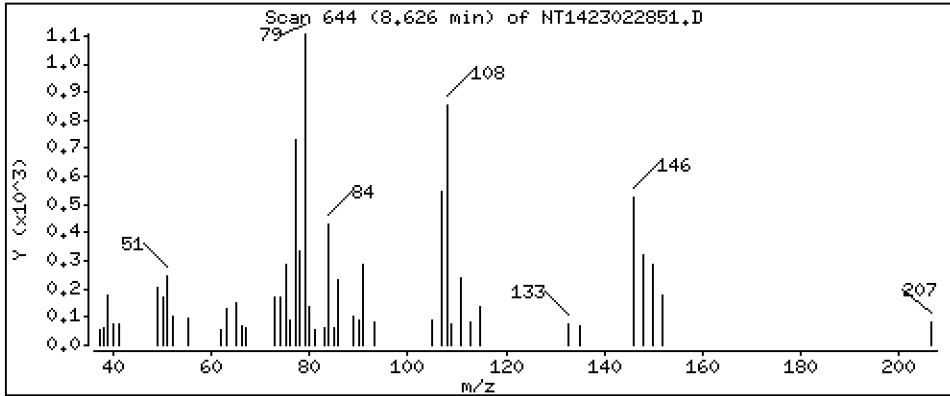
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

11 Benzyl alcohol

Concentration: 0,2776 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

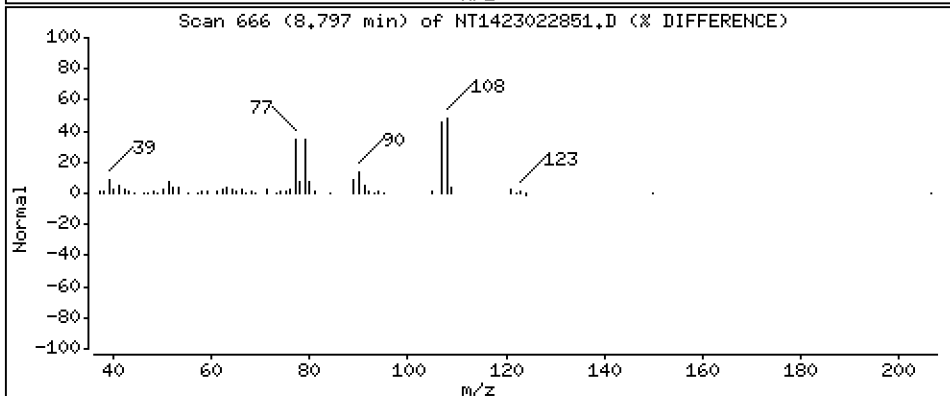
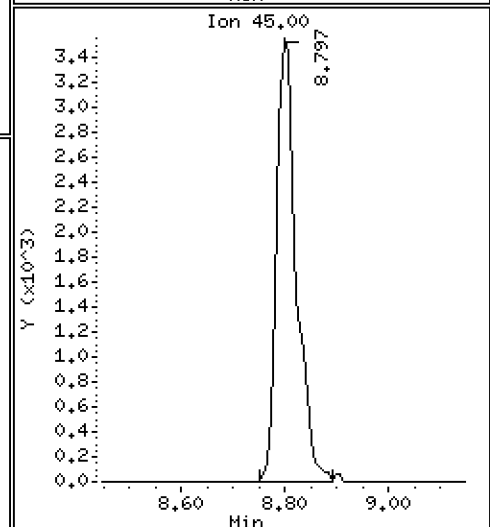
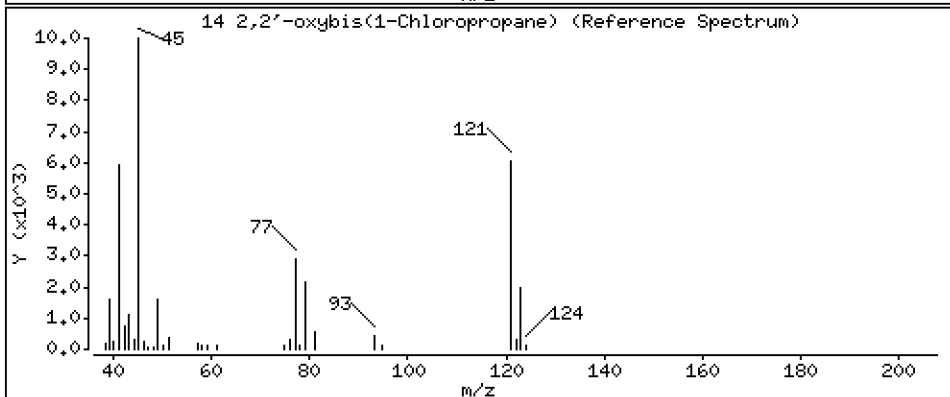
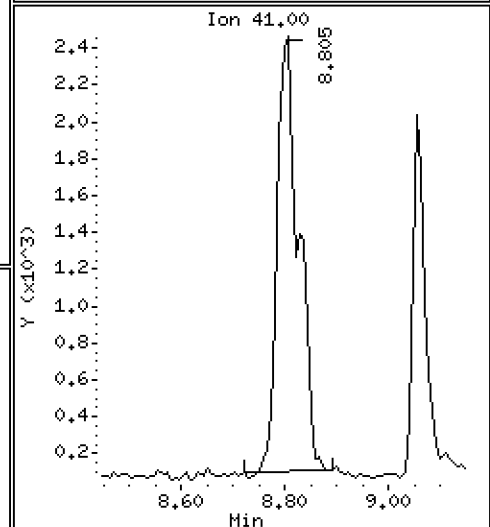
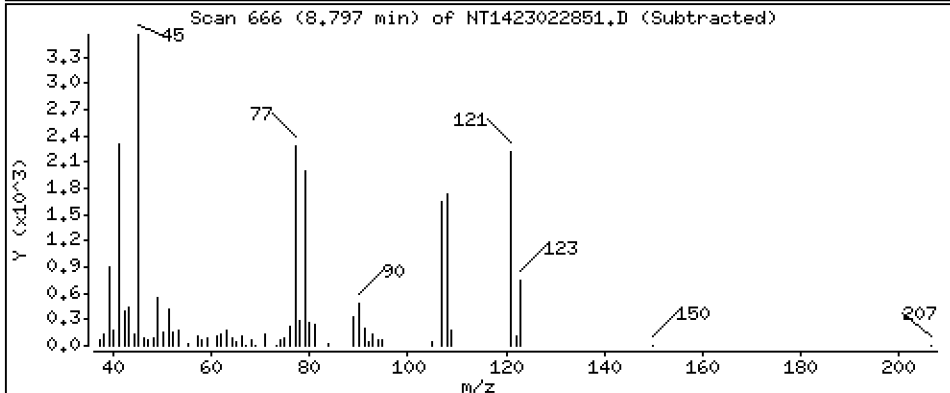
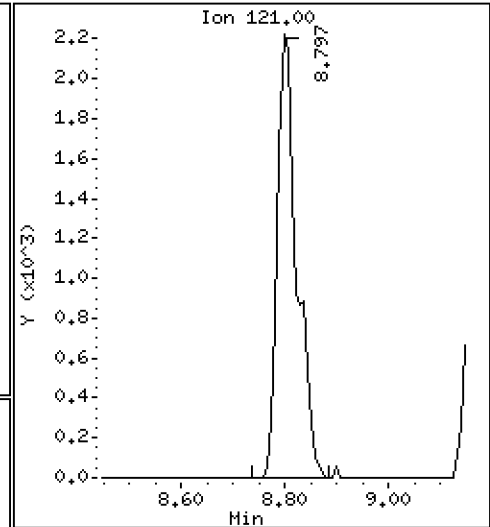
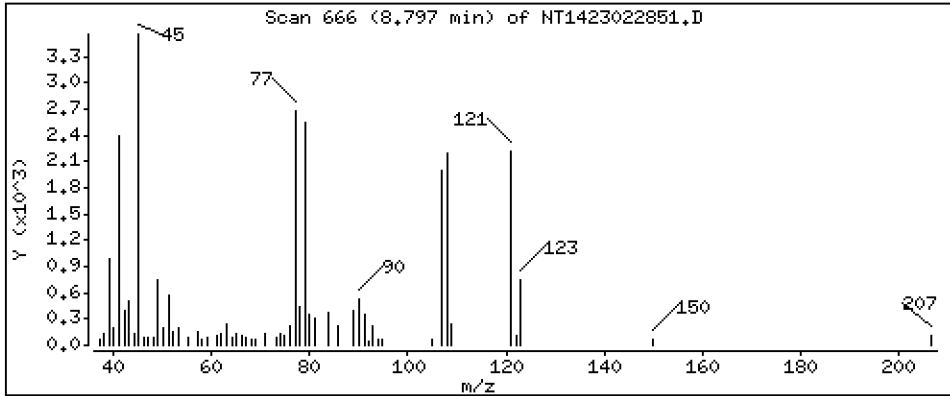
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 0,5373 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

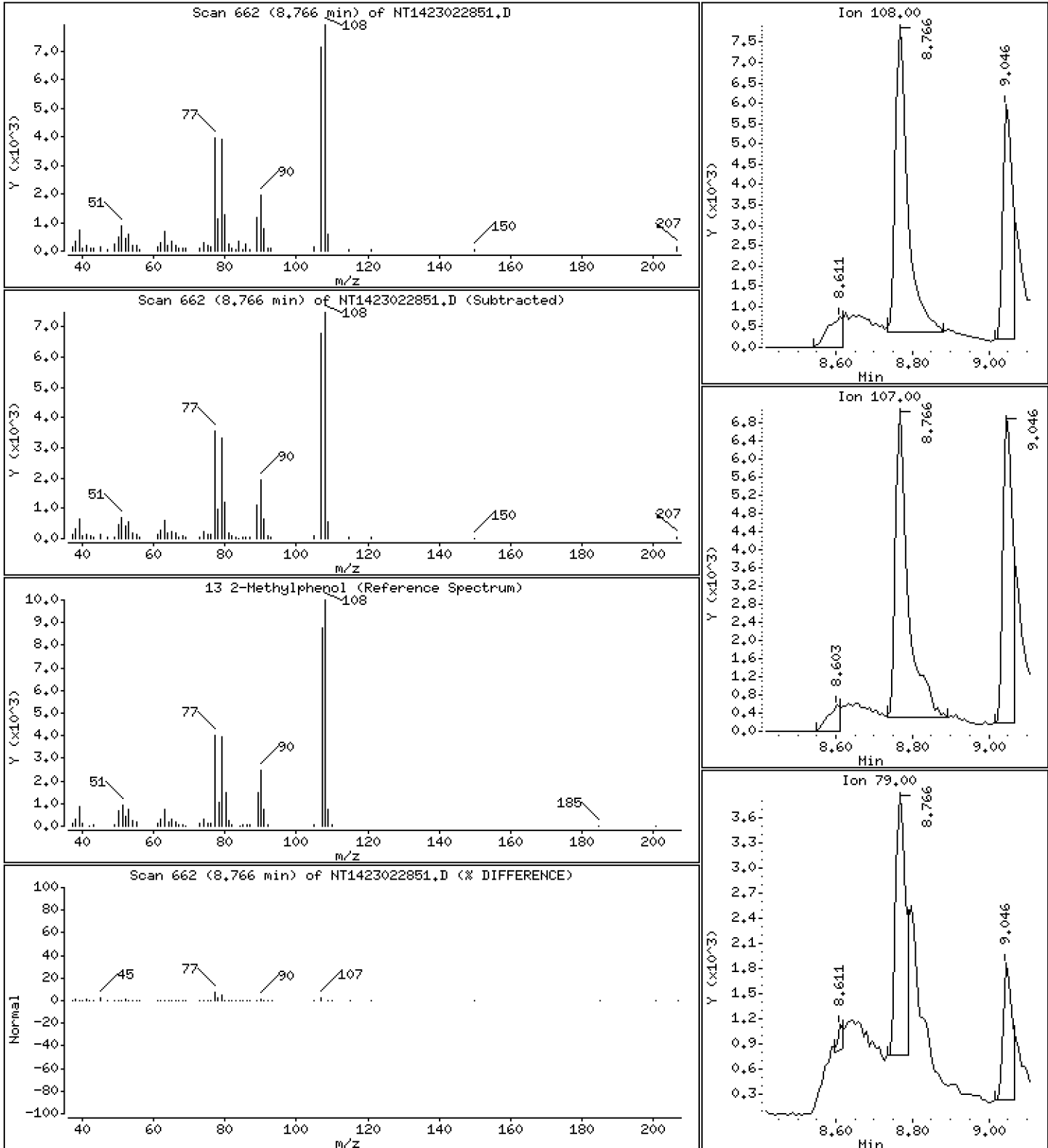
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

Concentration: 0.5113 ug/mL

13 2-Methylphenol



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

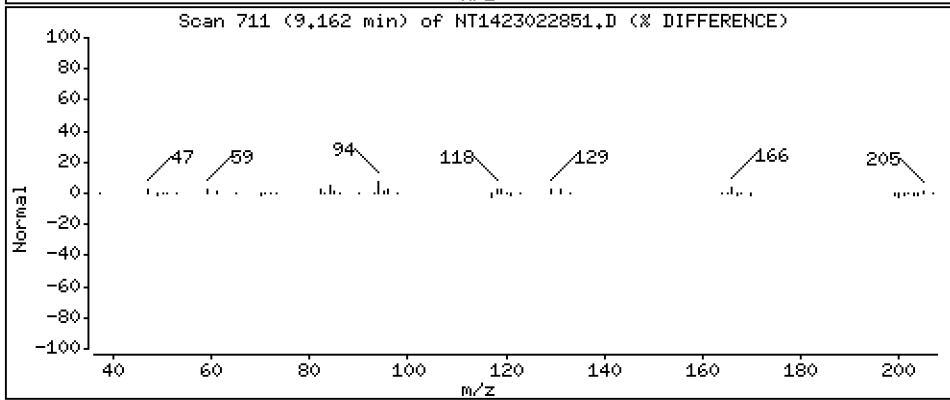
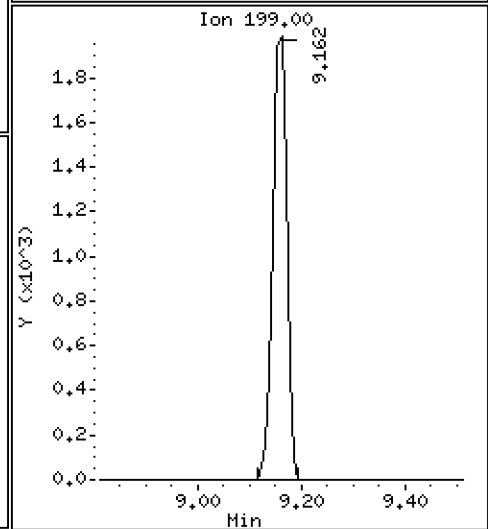
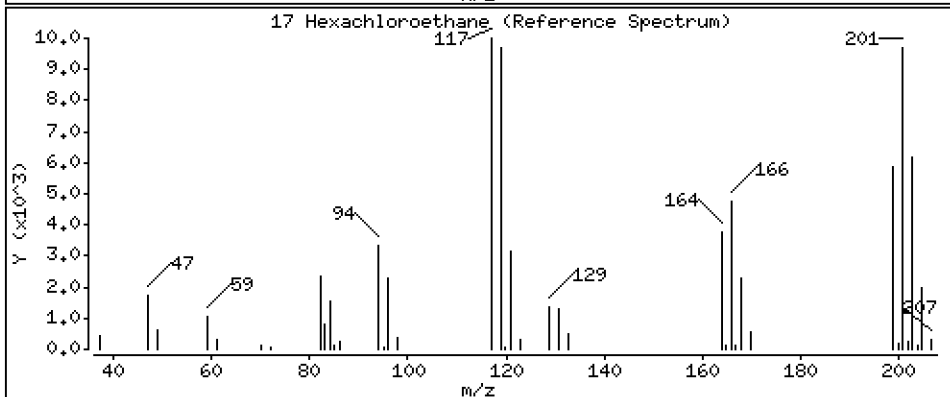
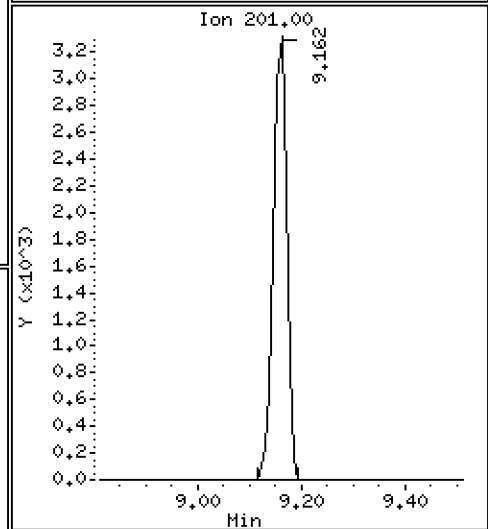
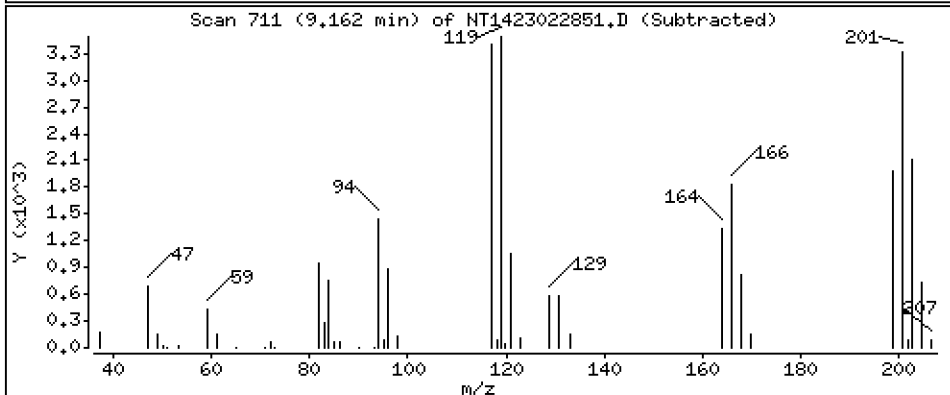
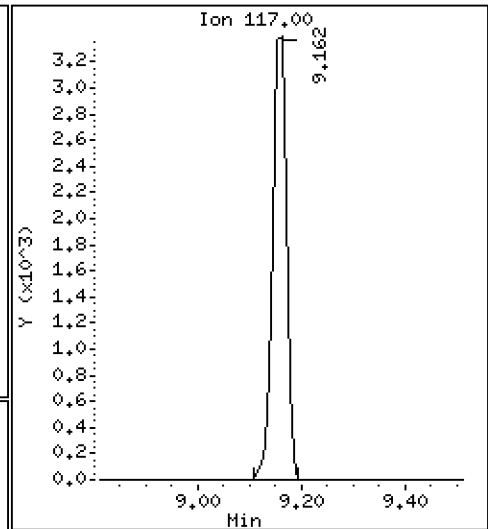
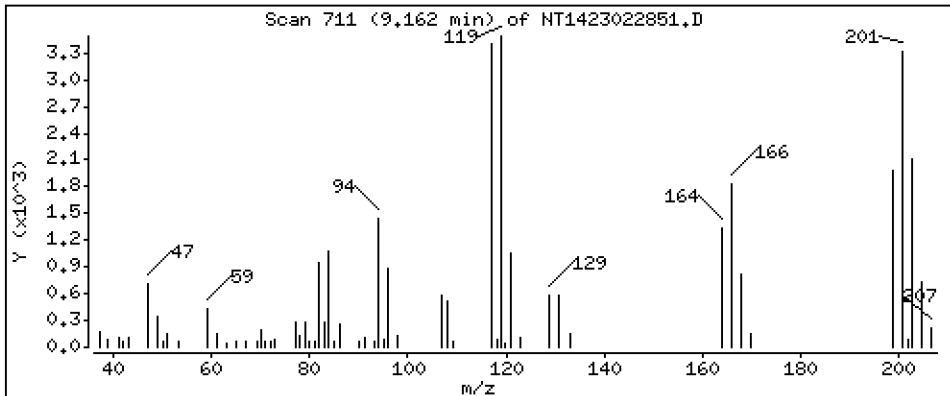
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

17 Hexachloroethane

Concentration: 0.3900 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

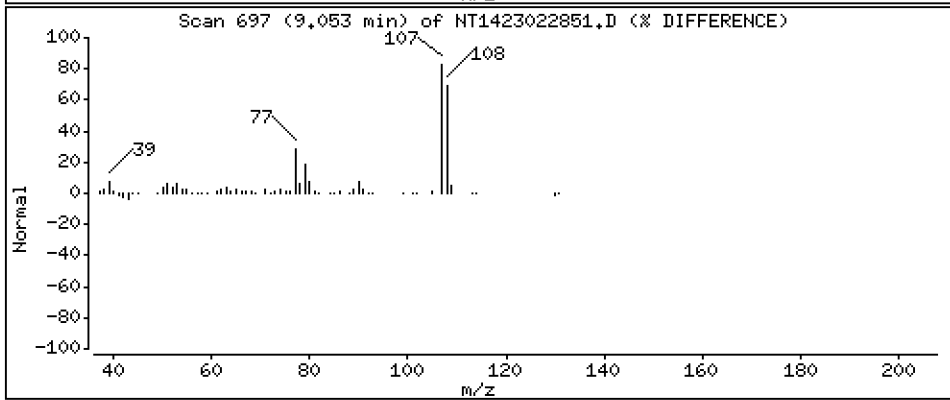
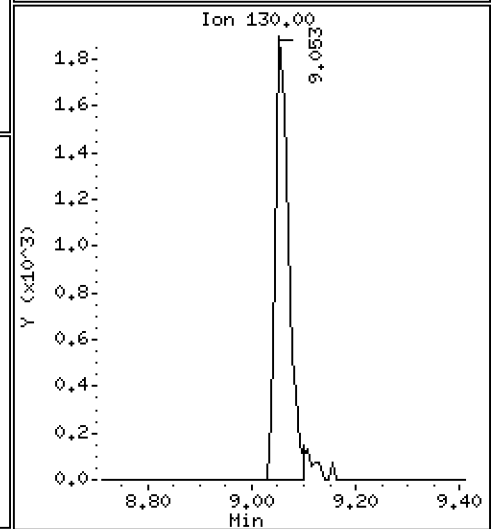
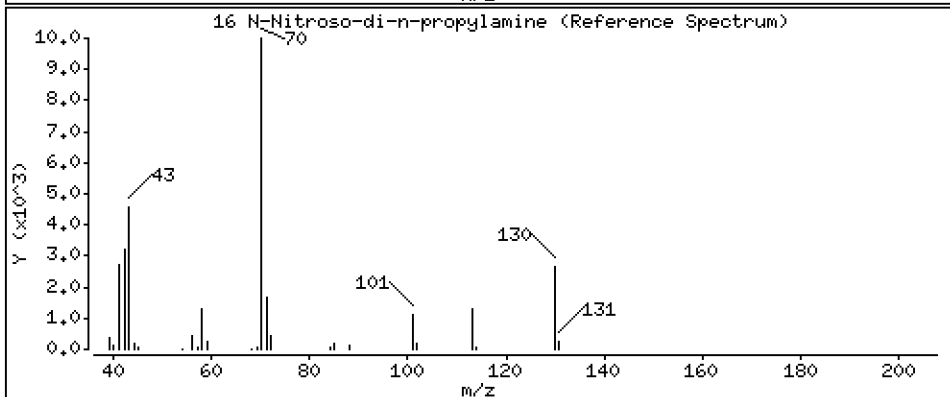
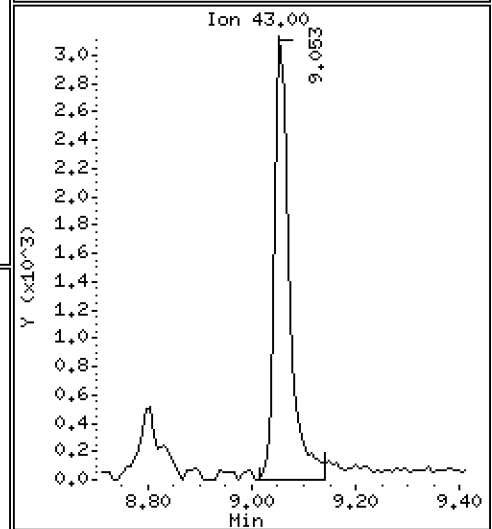
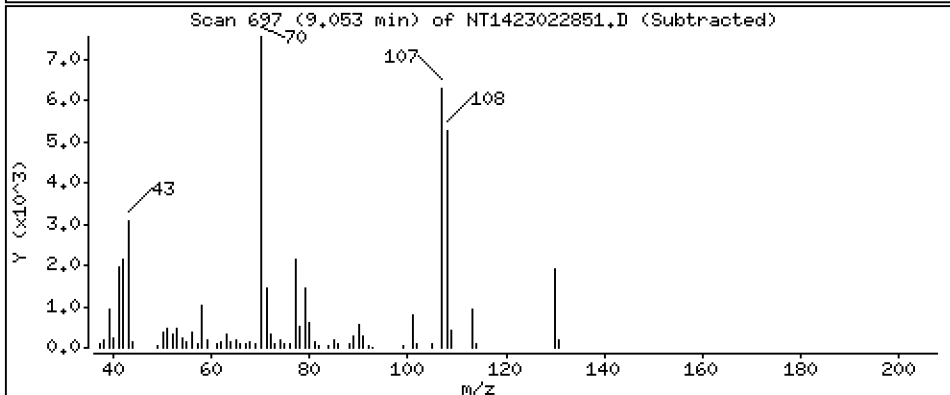
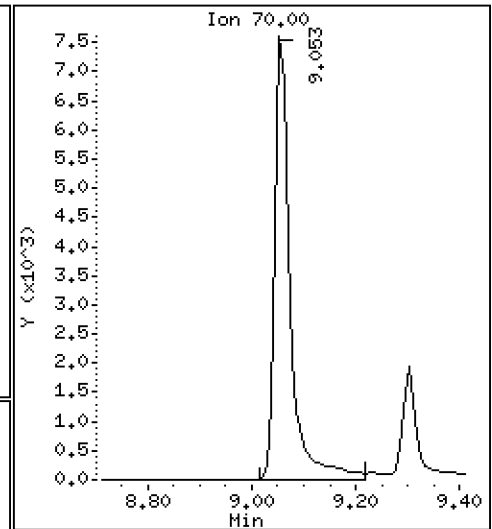
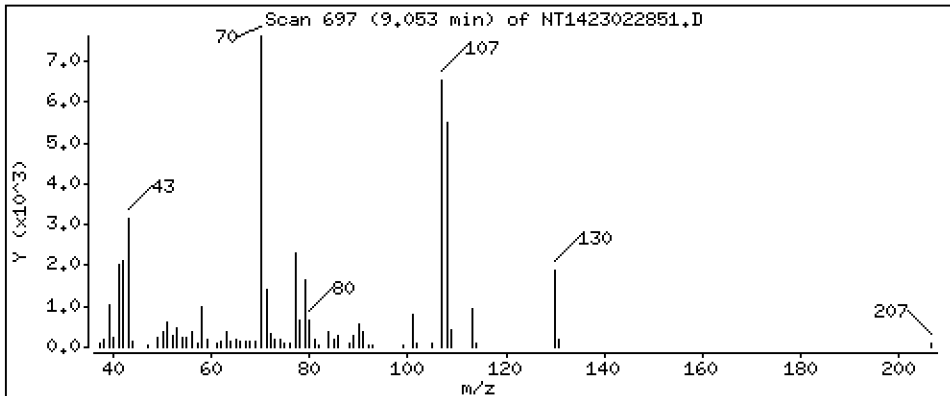
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

16 N-Nitroso-di-n-propylamine

Concentration: 0,6127 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

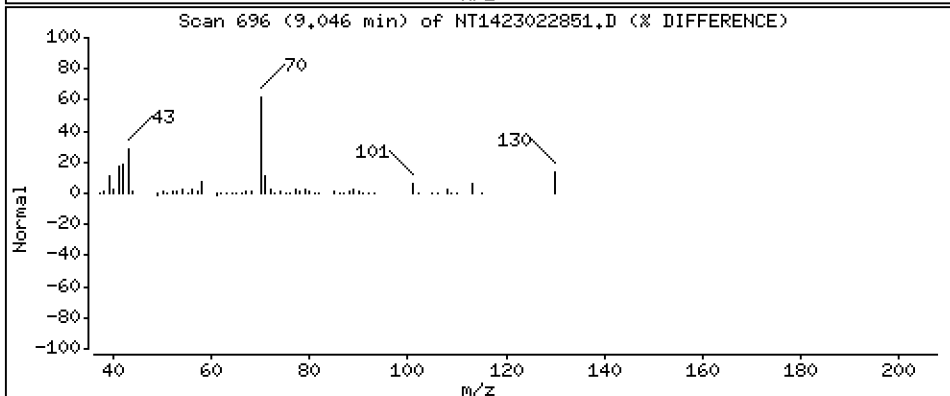
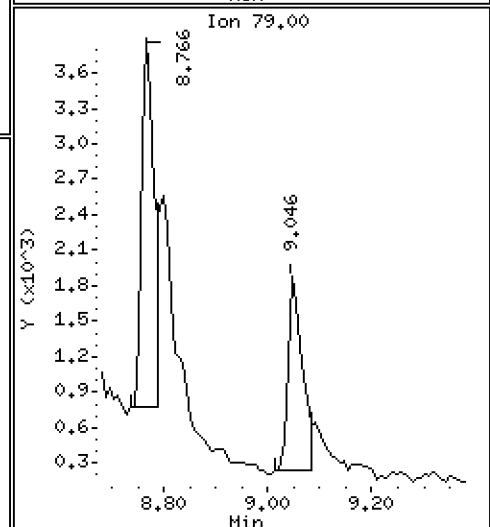
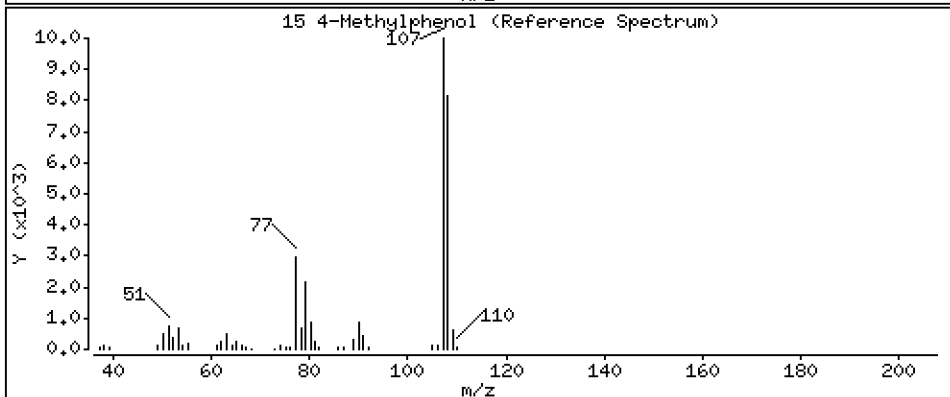
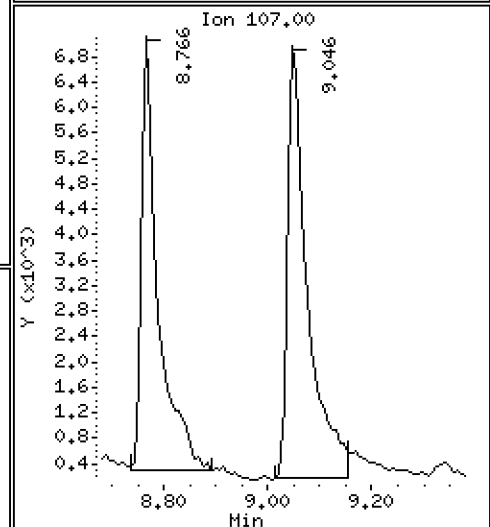
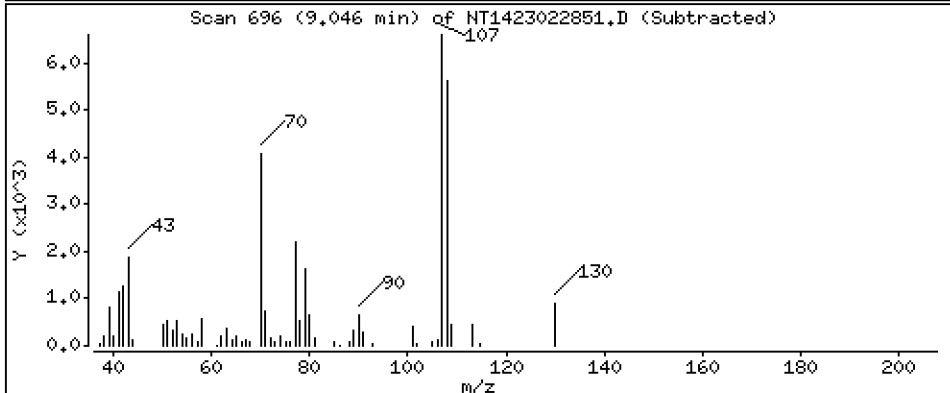
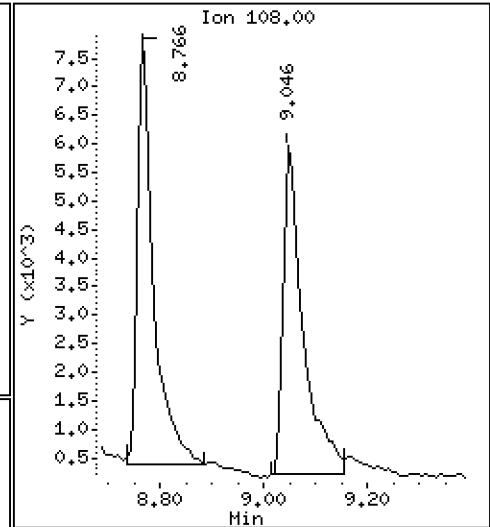
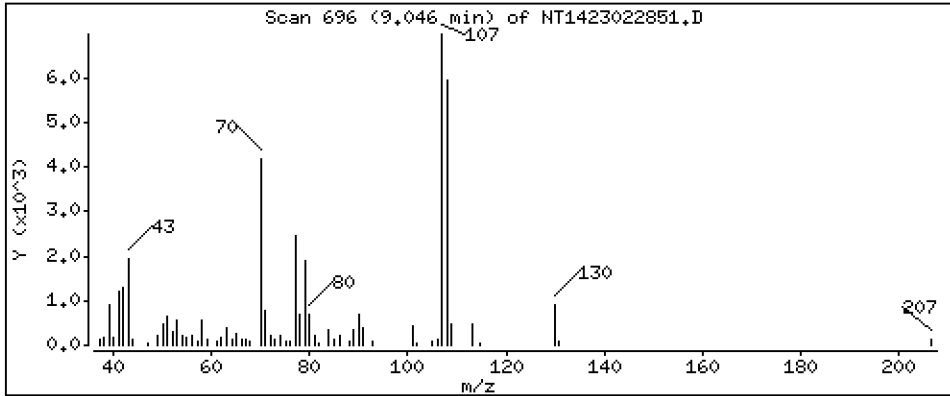
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

15 4-Methylphenol

Concentration: 0,4112 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

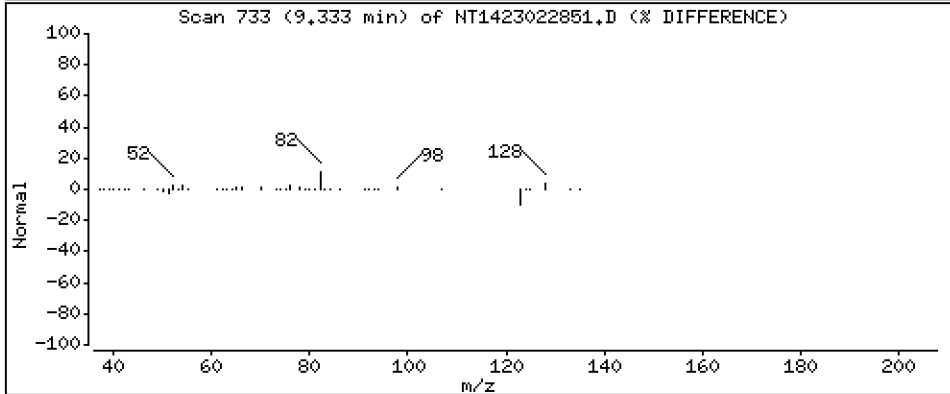
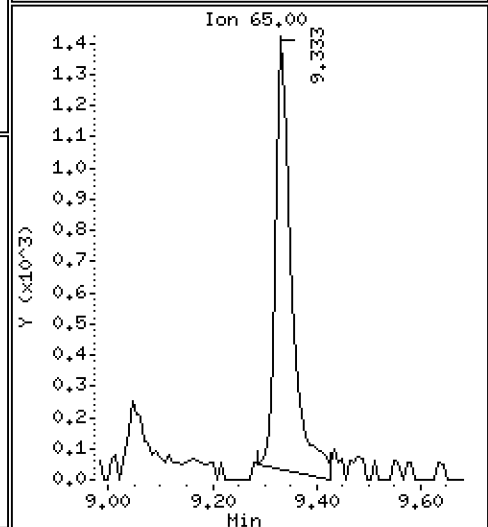
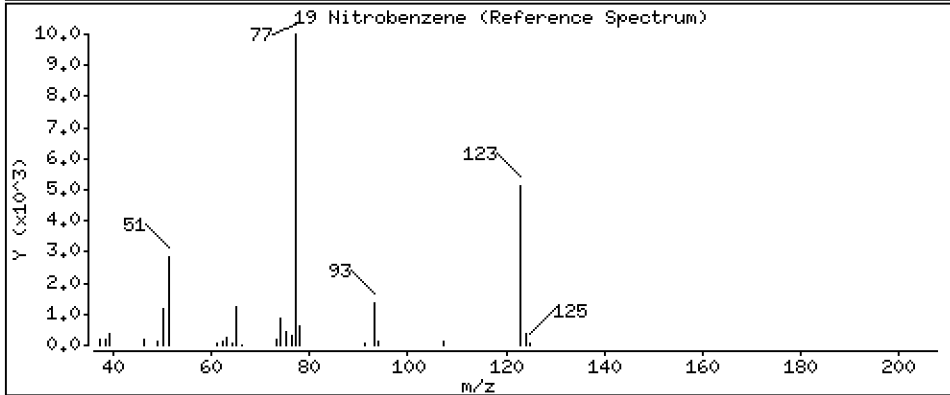
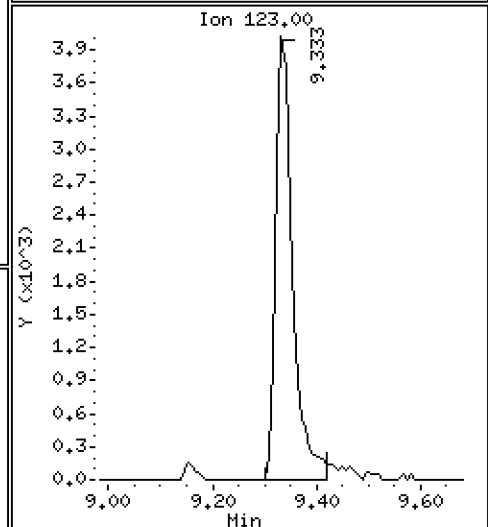
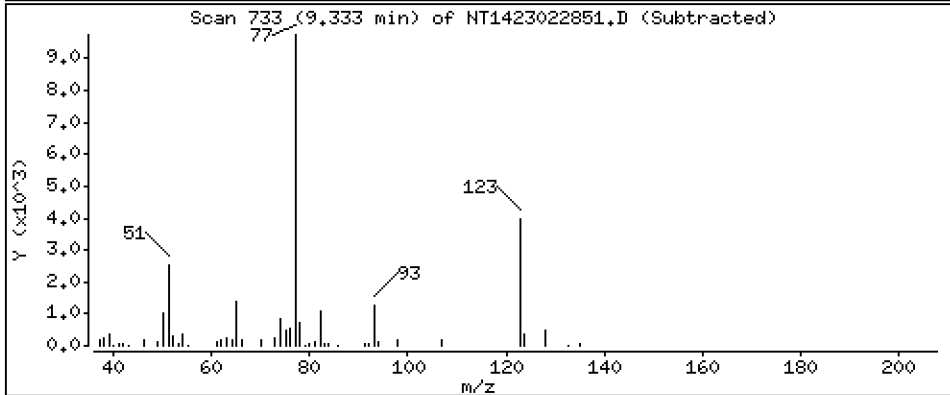
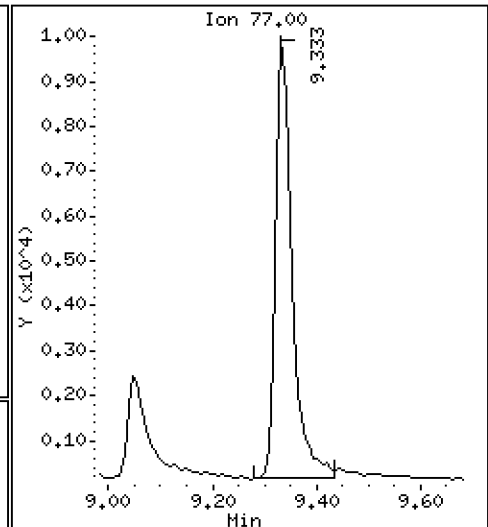
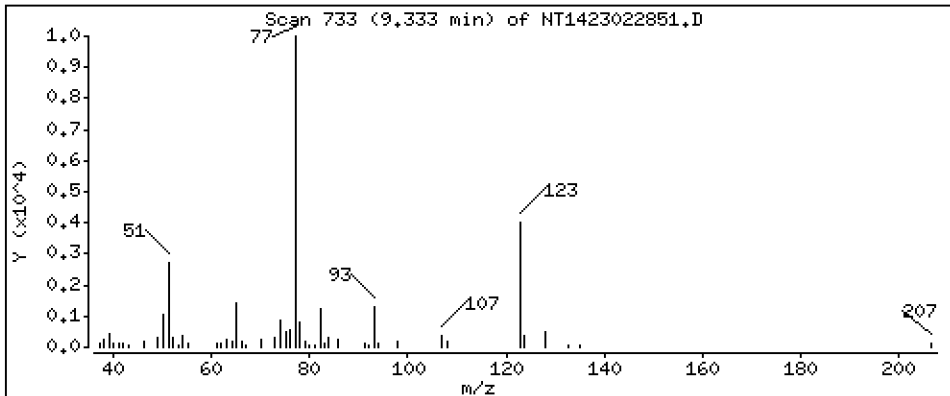
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

19 Nitrobenzene

Concentration: 0,5427 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

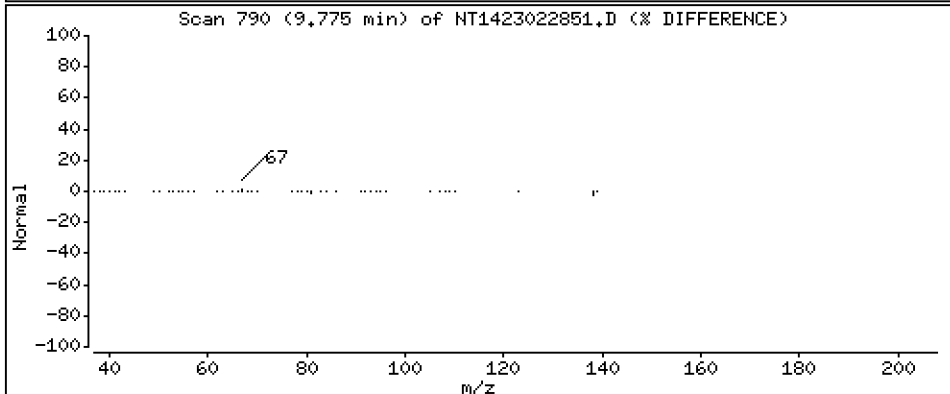
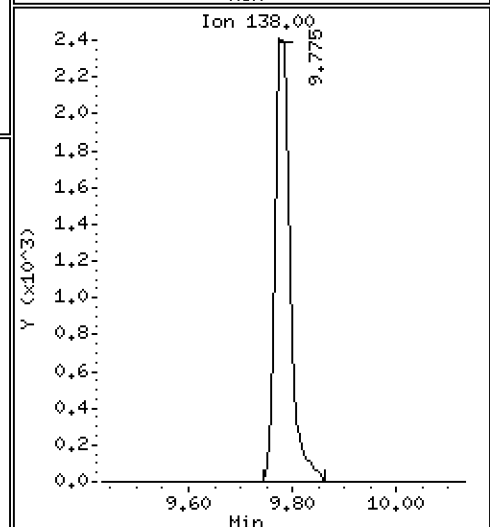
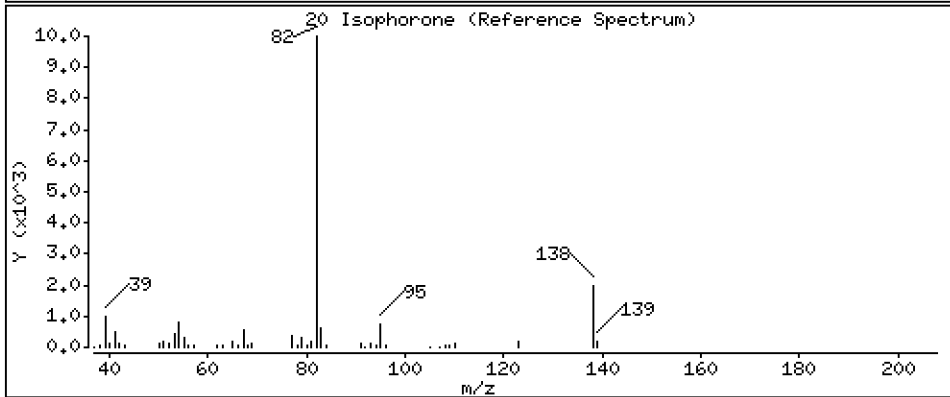
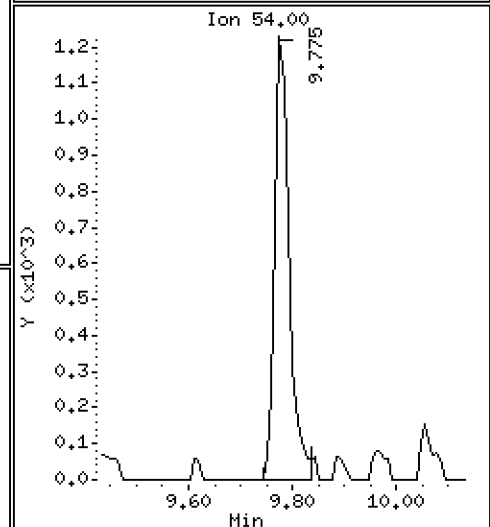
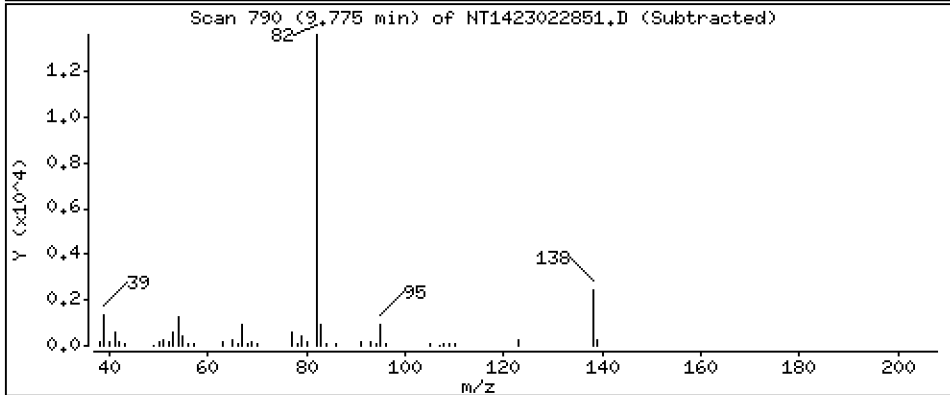
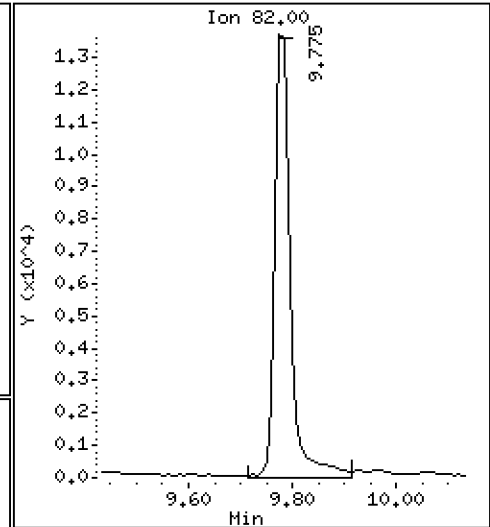
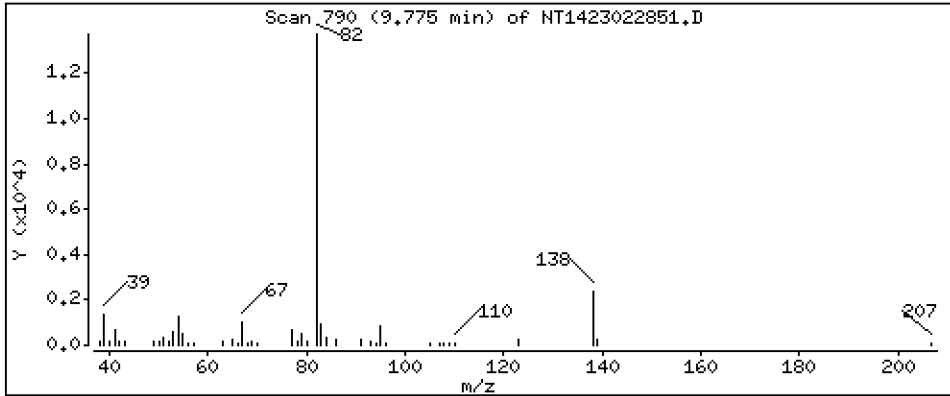
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

20 Isophorone

Concentration: 0.4990 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

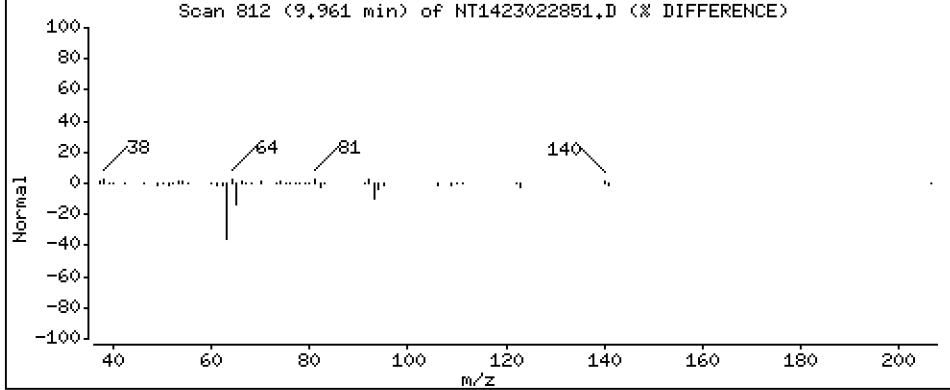
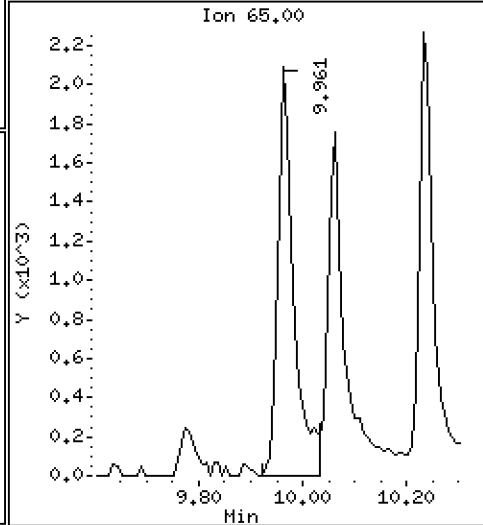
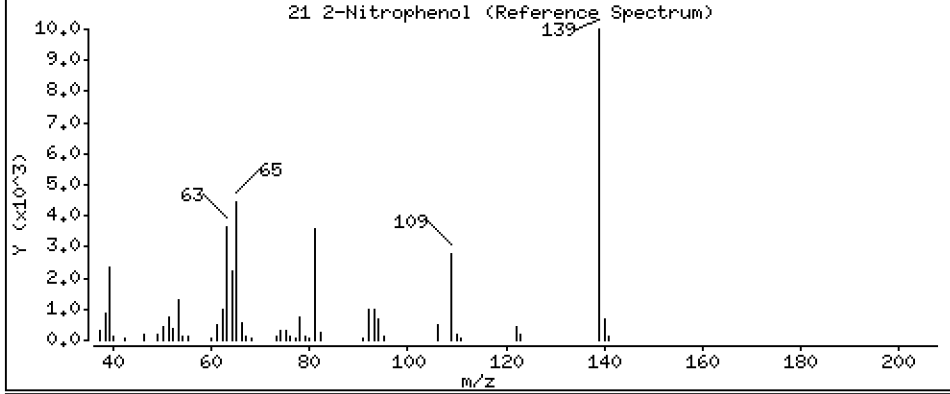
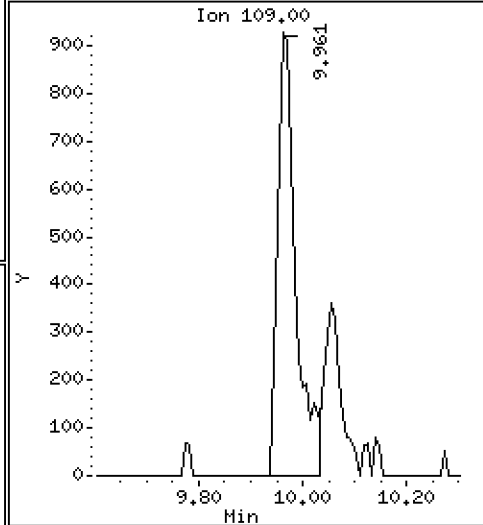
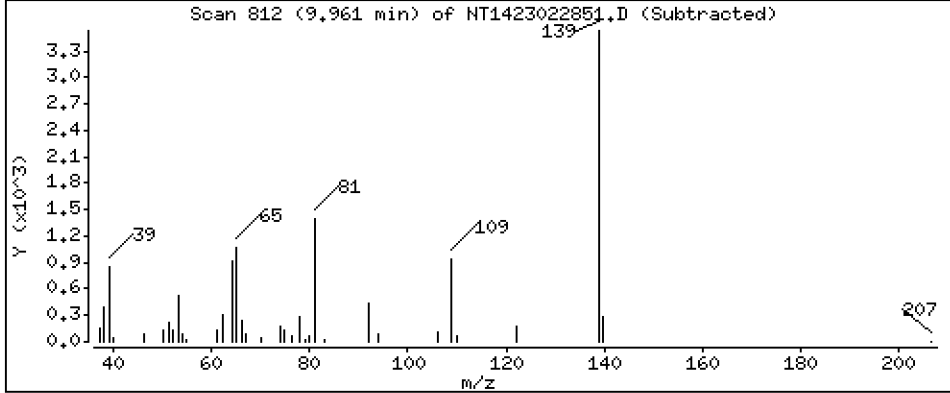
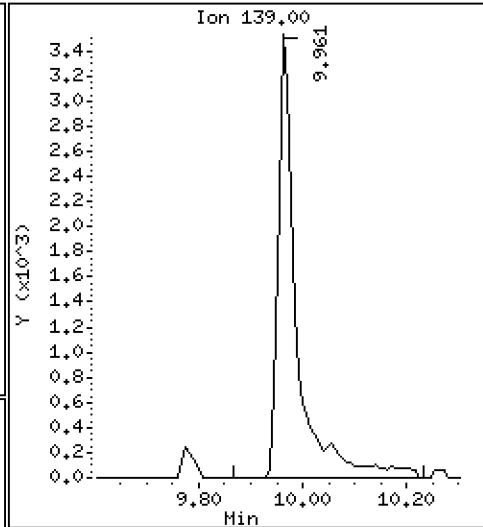
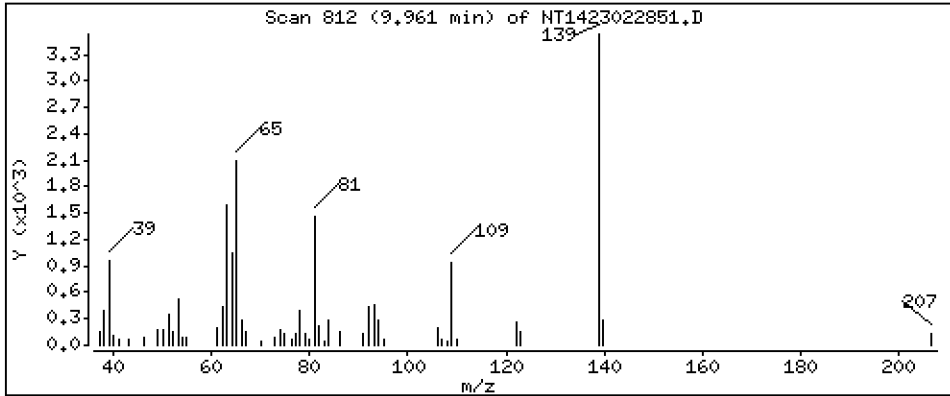
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

21 2-Nitrophenol

Concentration: 0.4685 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

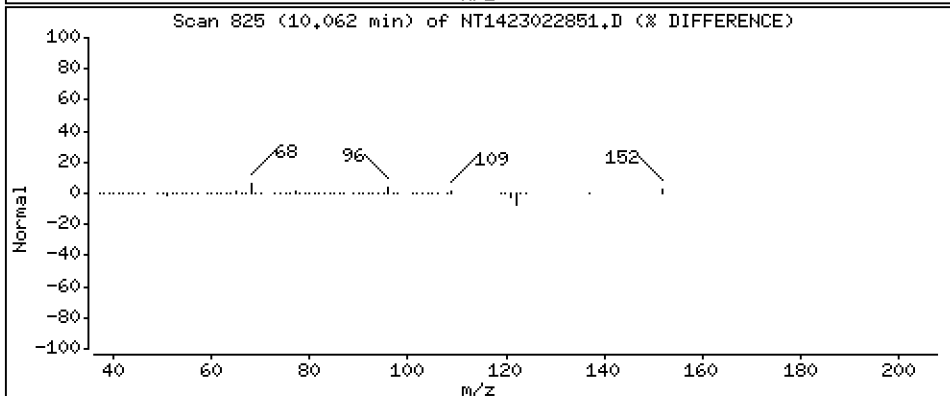
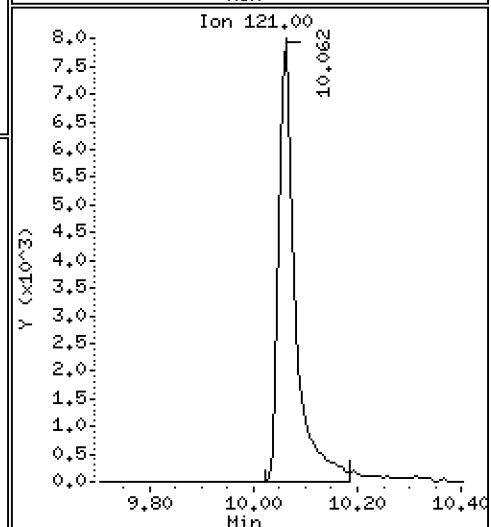
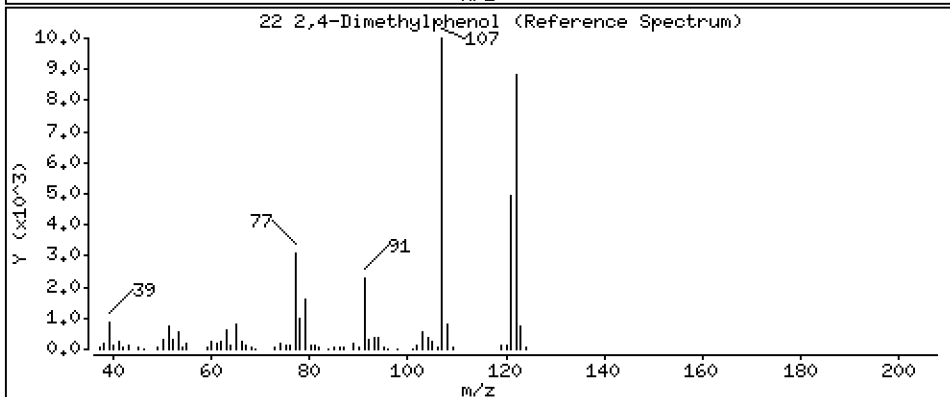
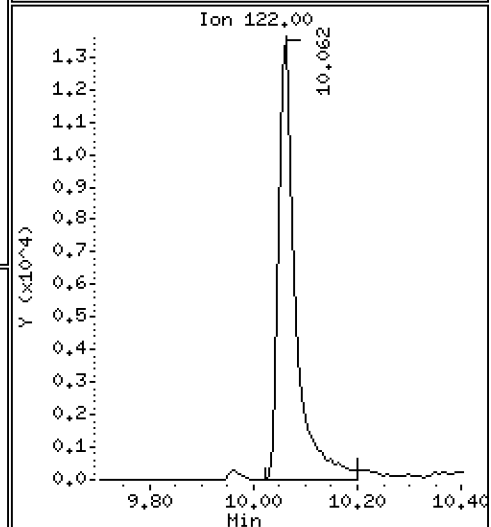
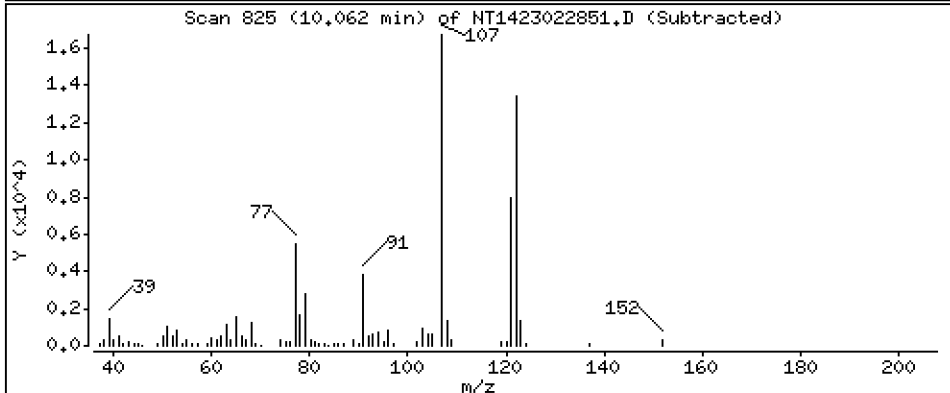
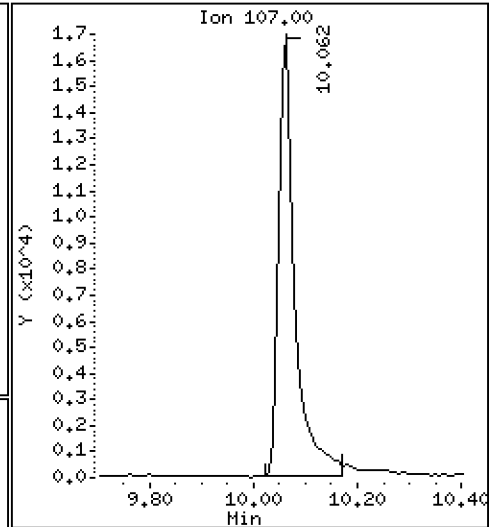
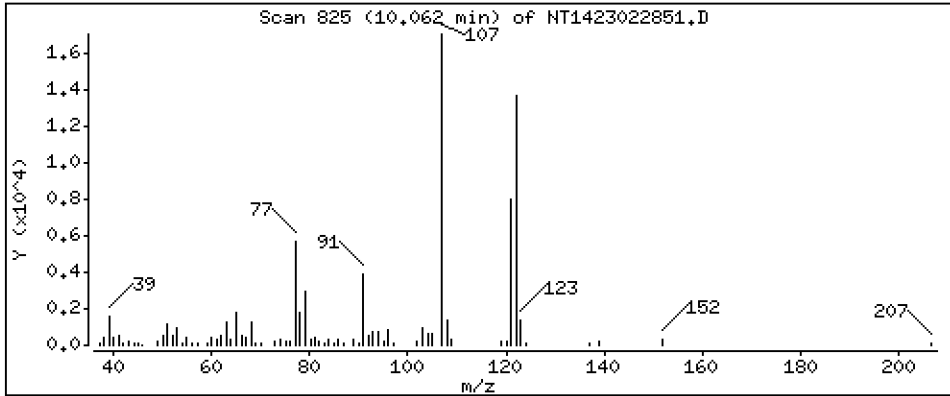
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 1,033 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

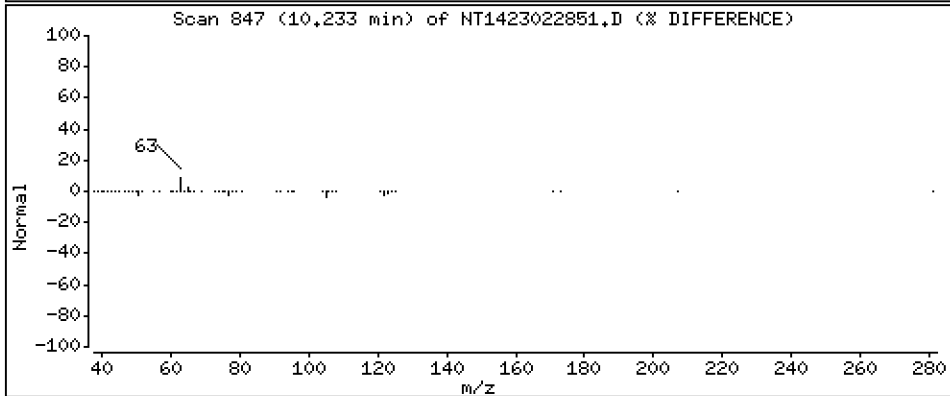
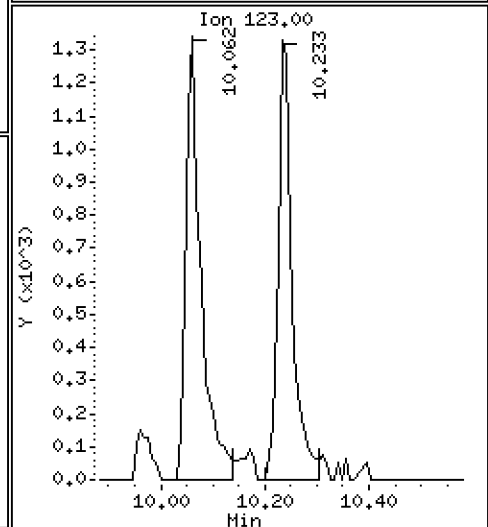
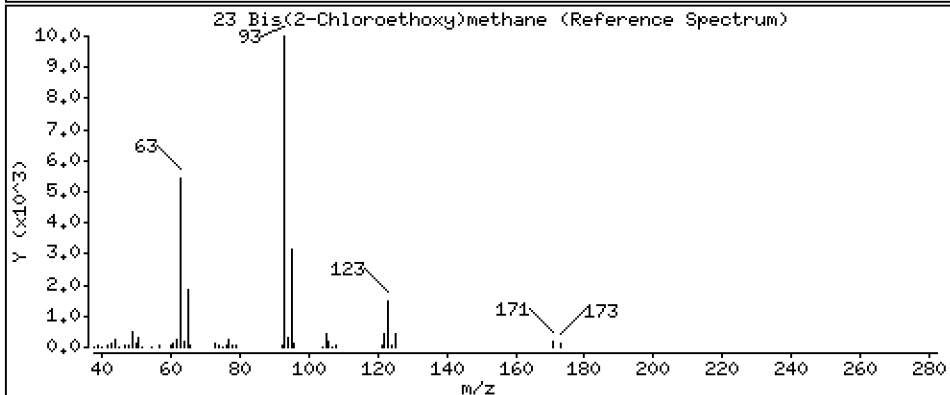
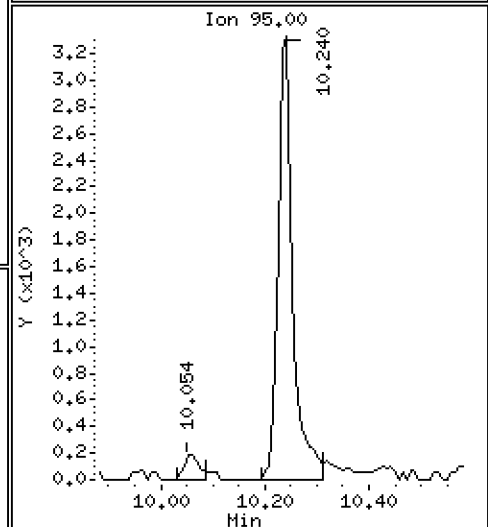
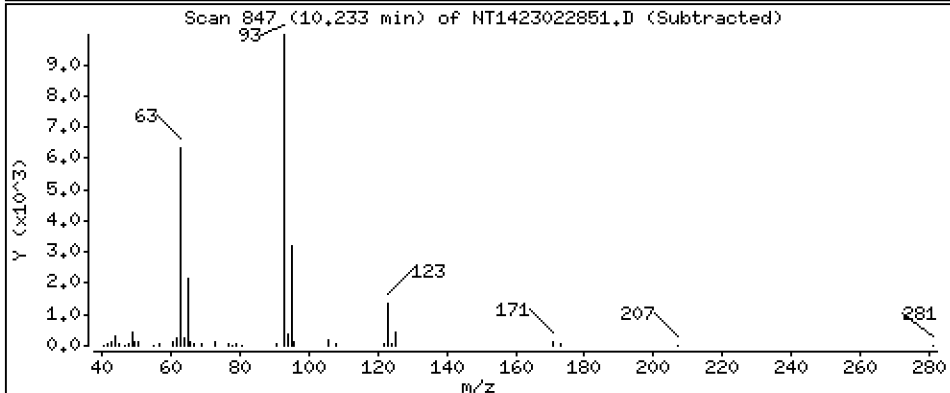
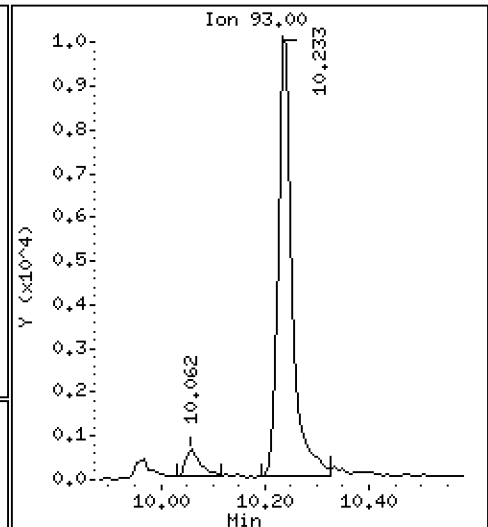
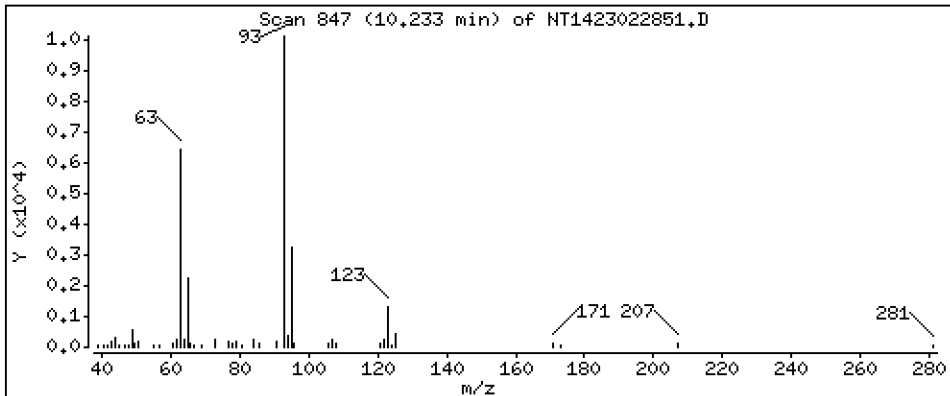
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

23 Bis(2-Chloroethoxy)methane

Concentration: 0,5015 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

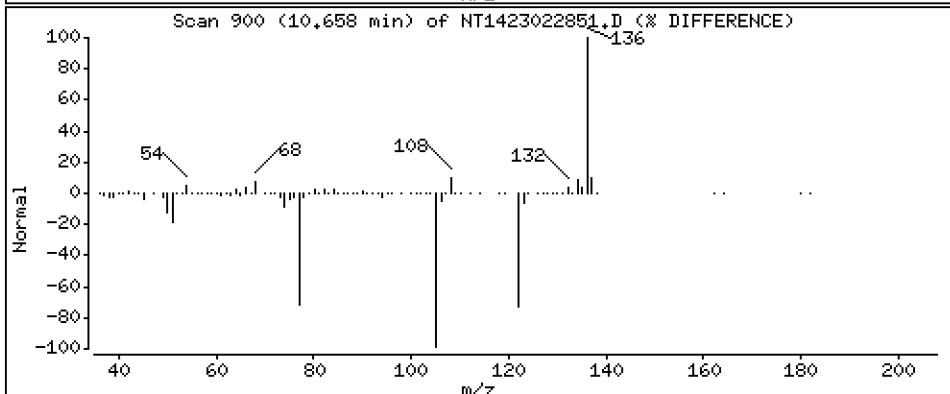
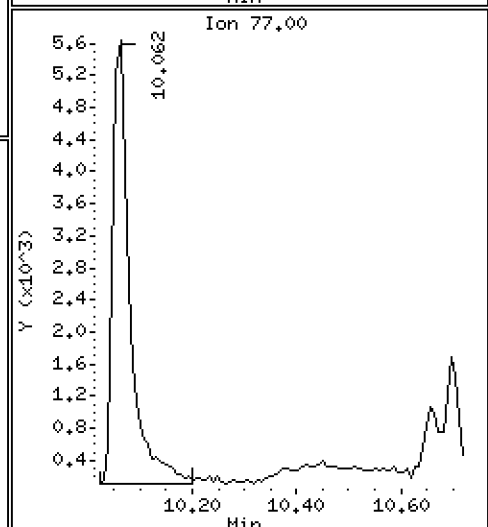
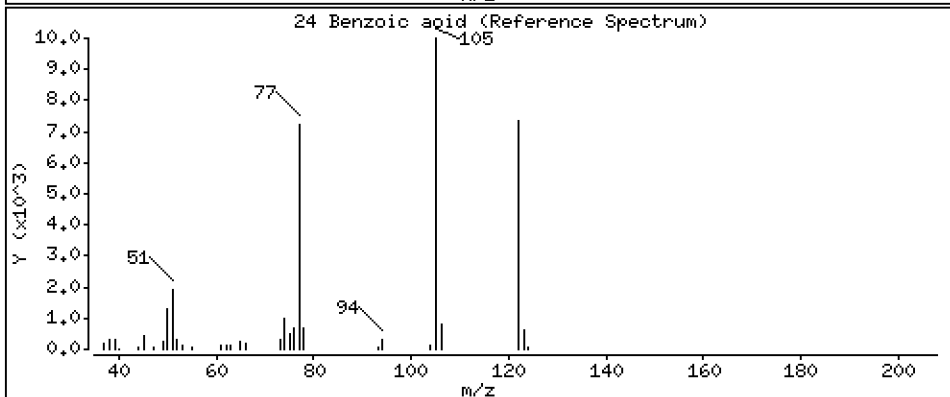
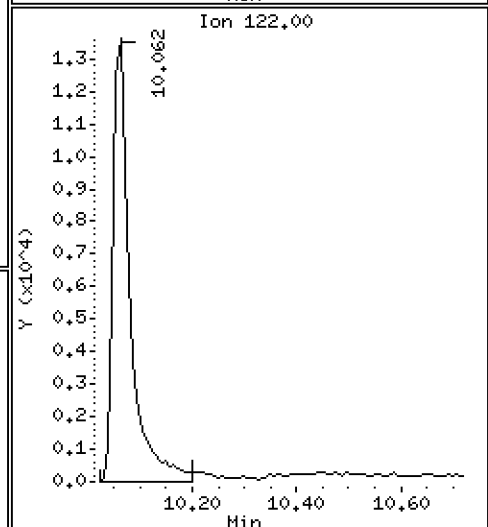
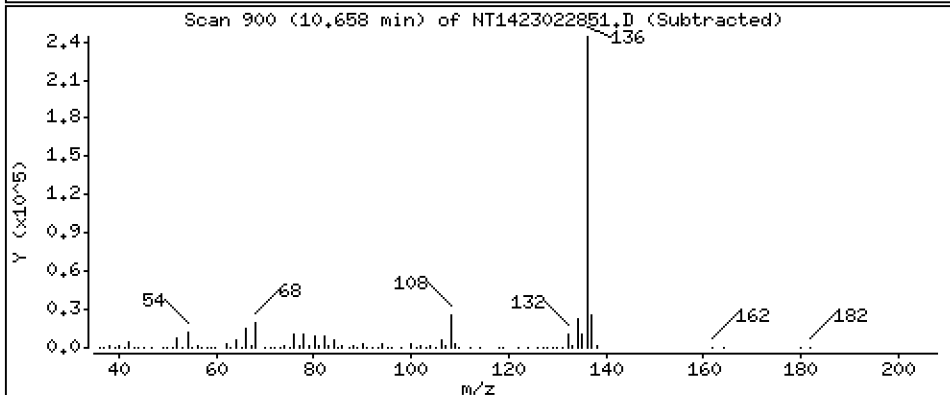
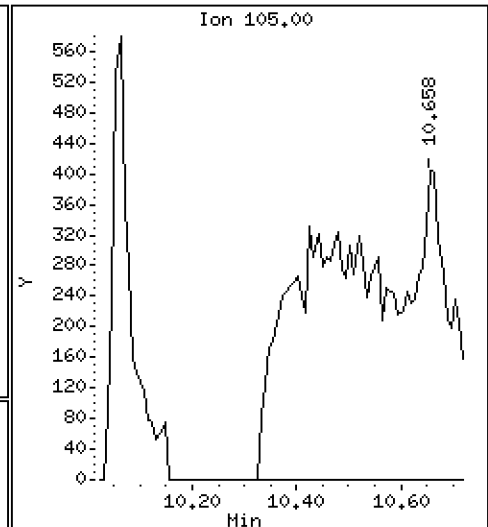
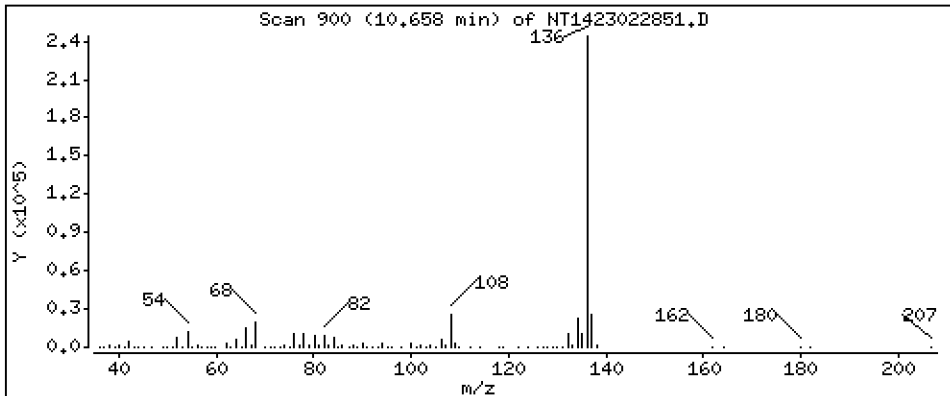
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

24 Benzoic acid

Concentration: 1,087 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

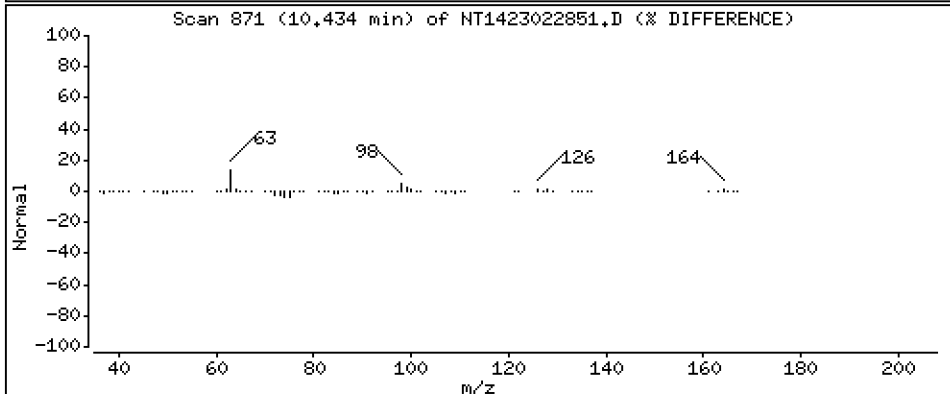
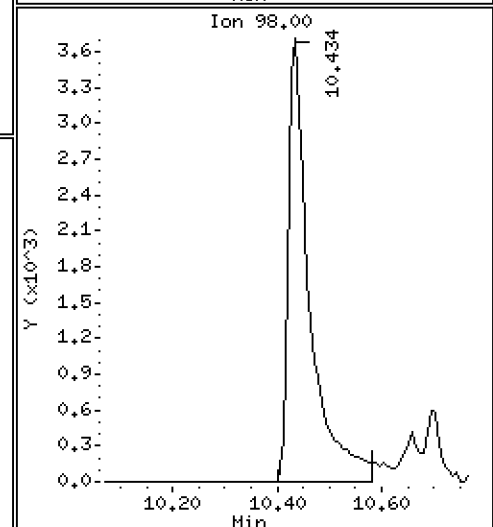
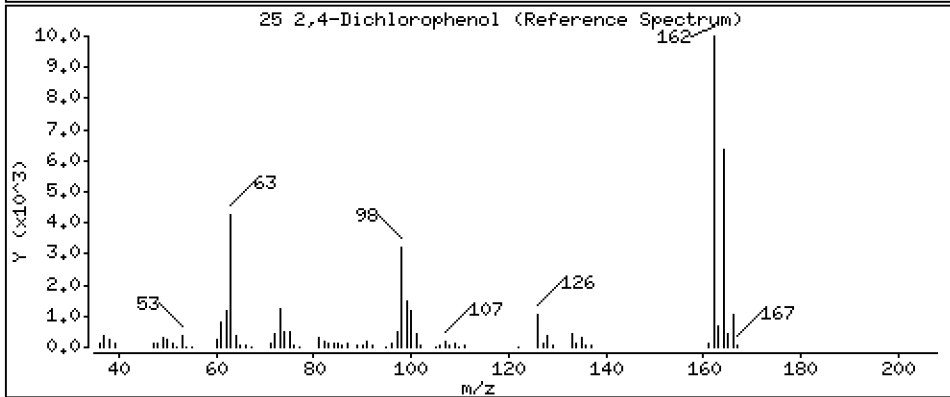
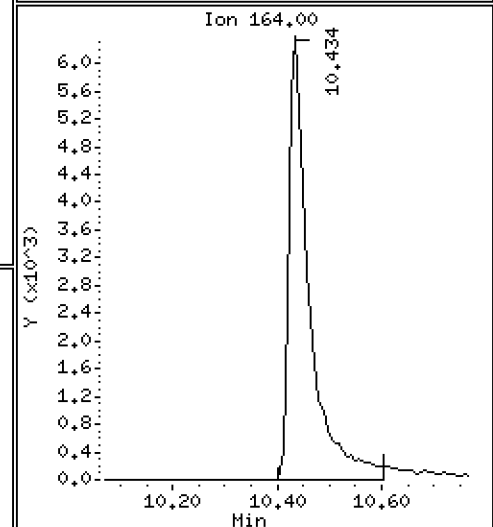
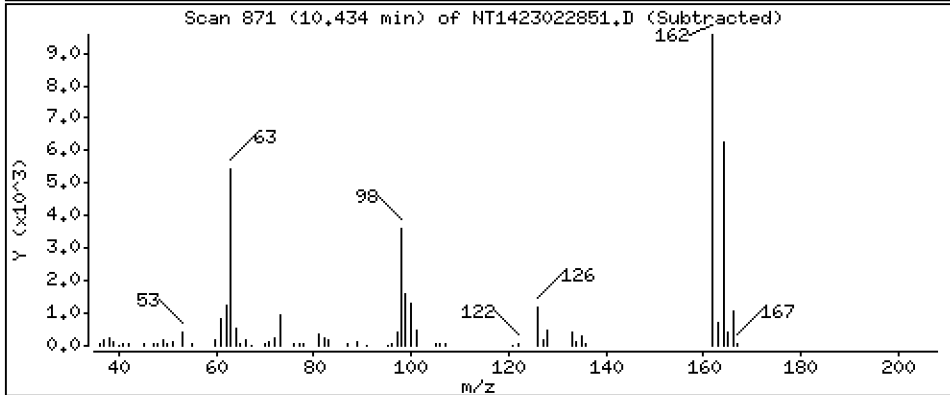
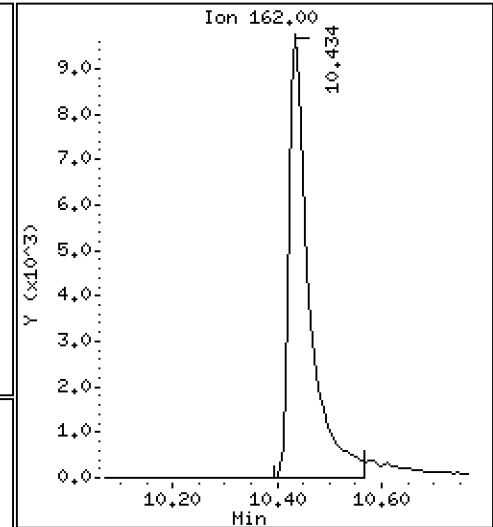
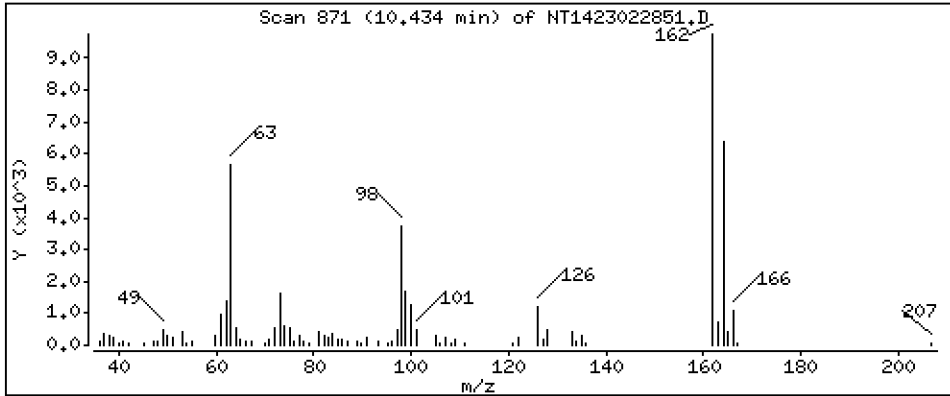
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 0,7757 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

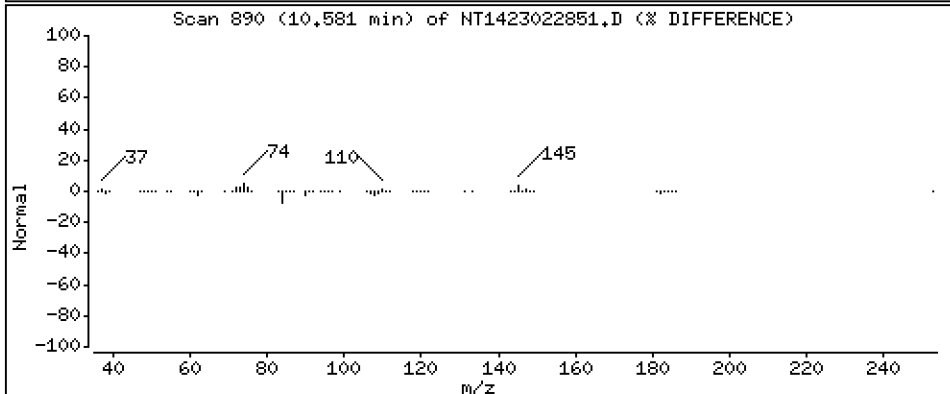
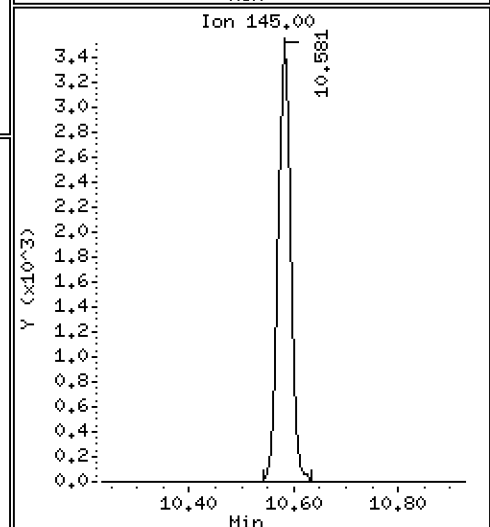
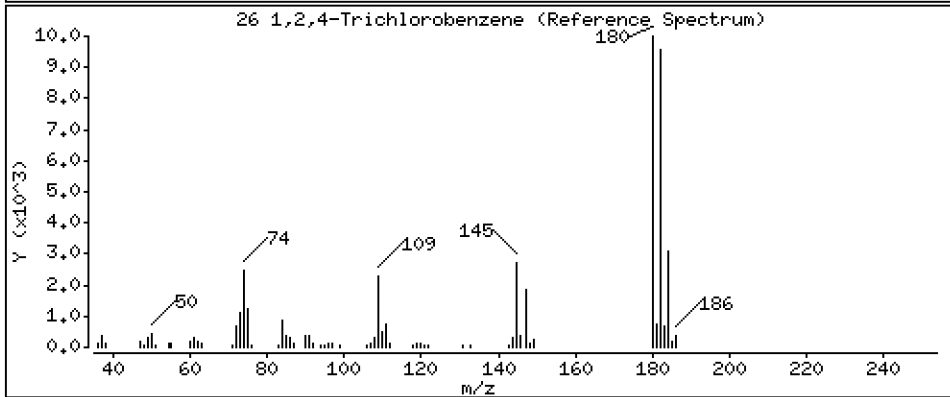
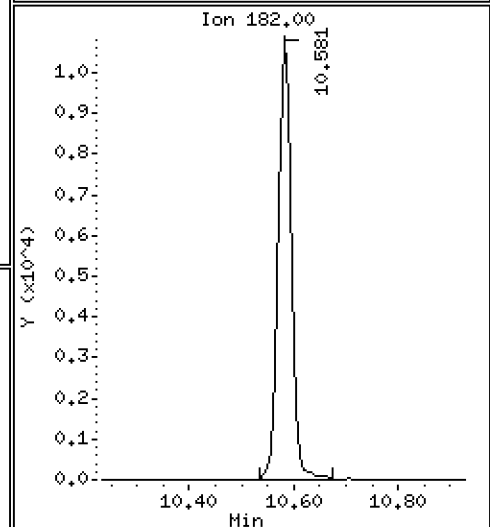
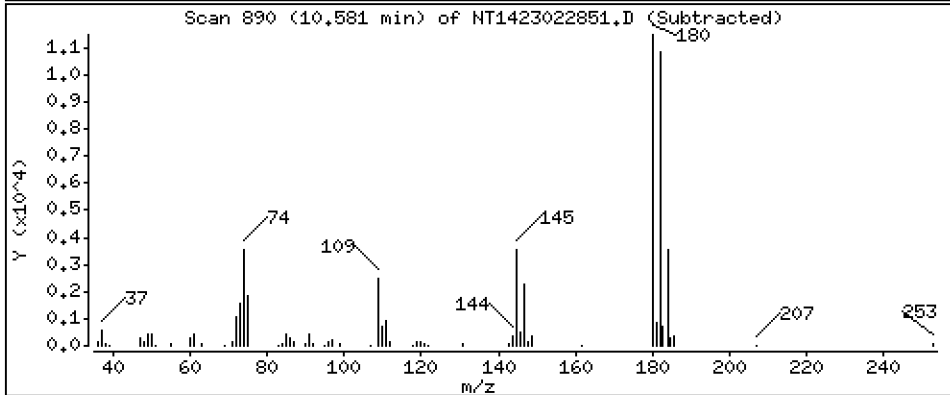
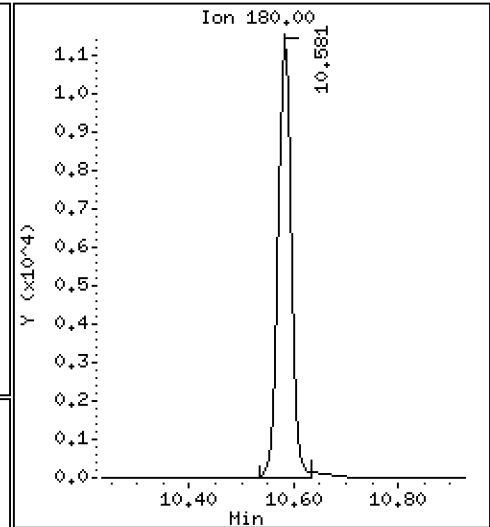
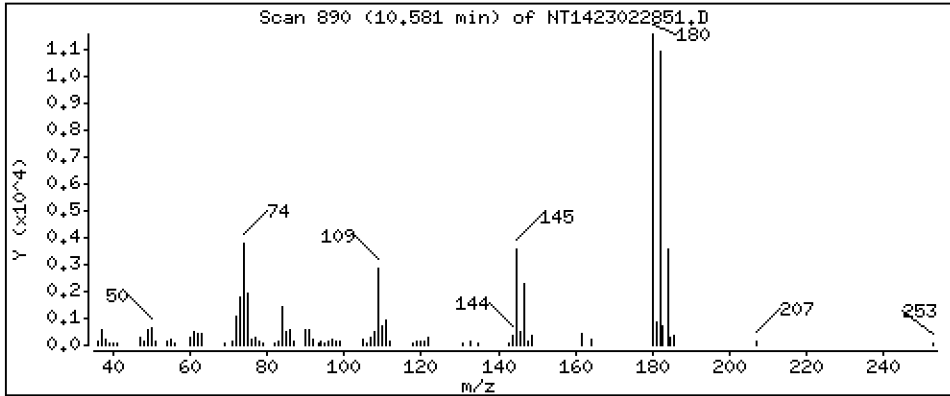
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 0,4890 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

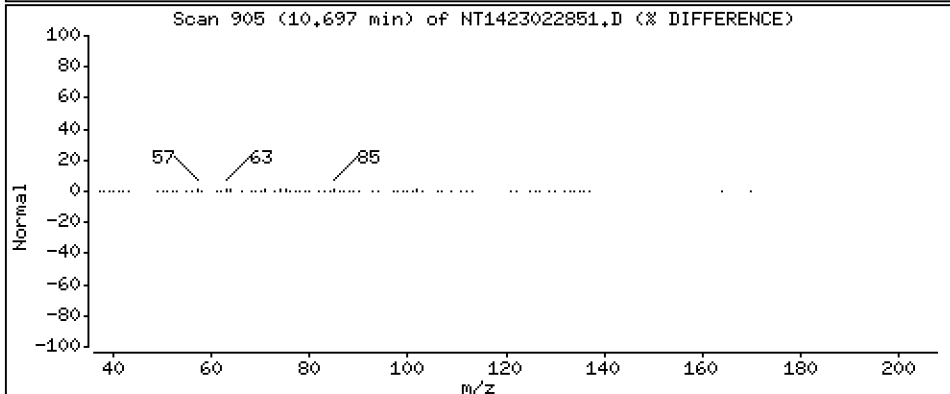
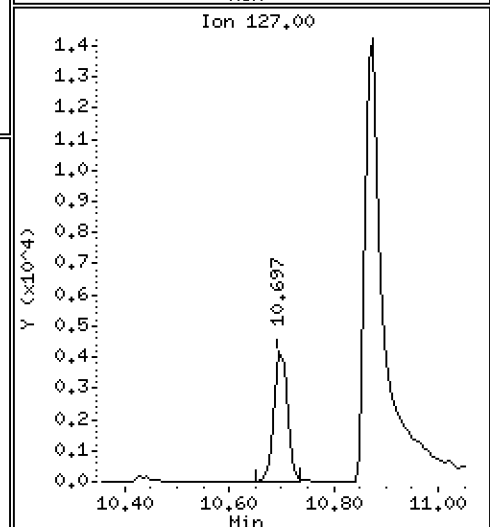
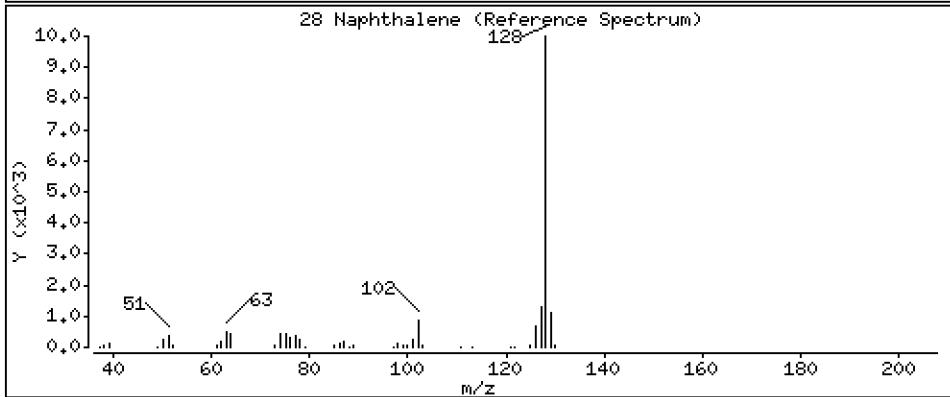
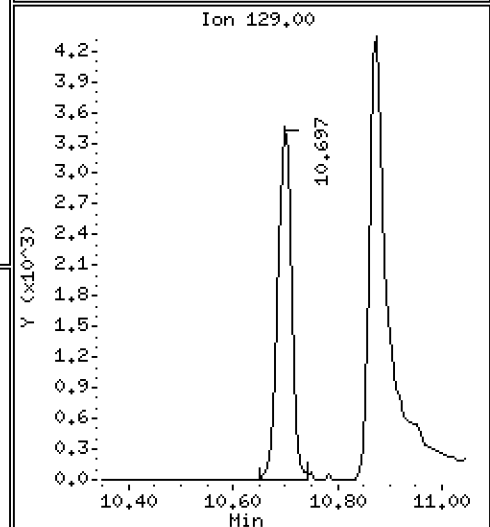
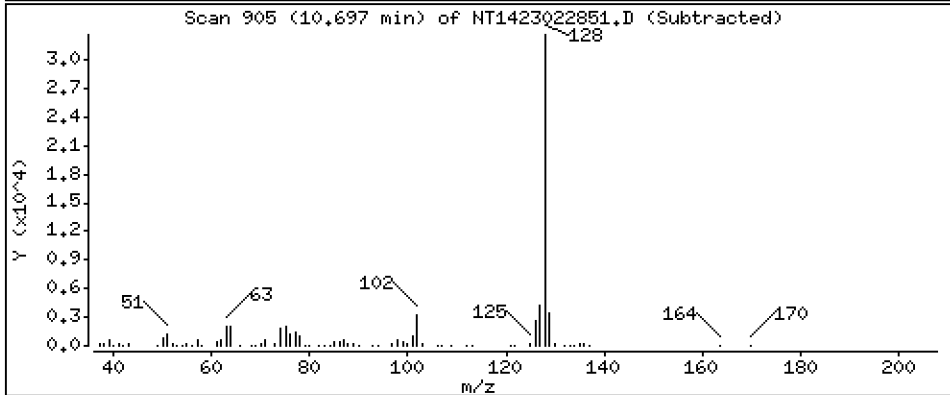
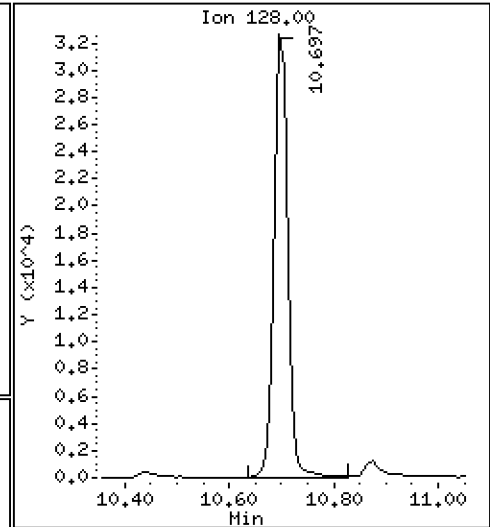
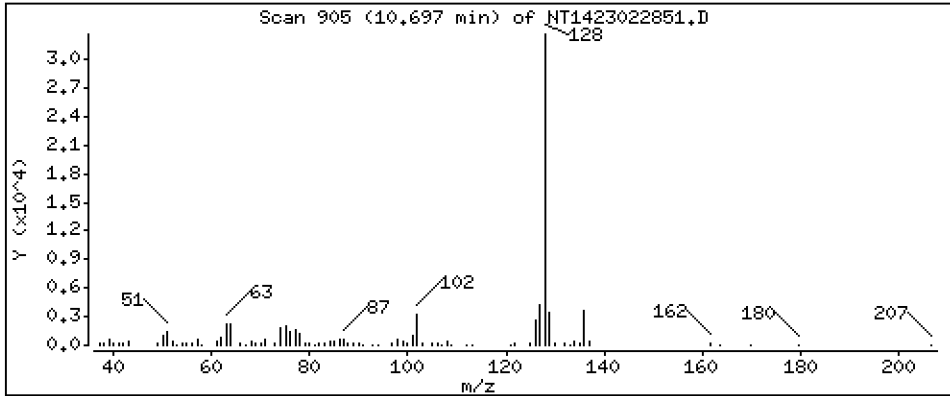
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 0,5296 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

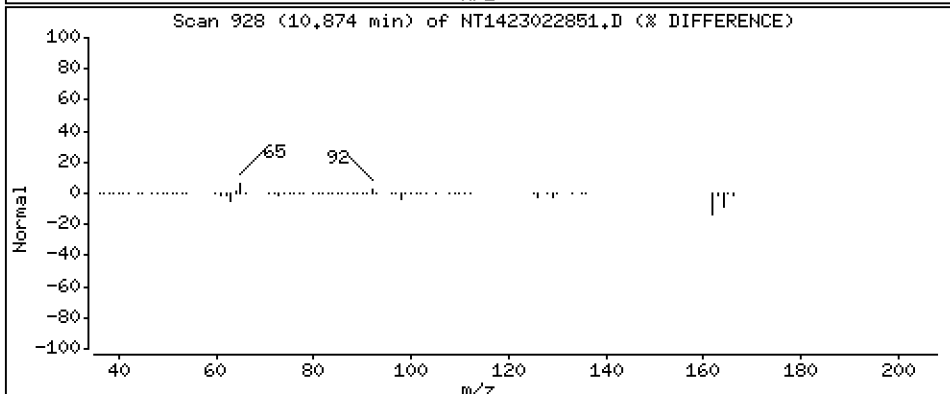
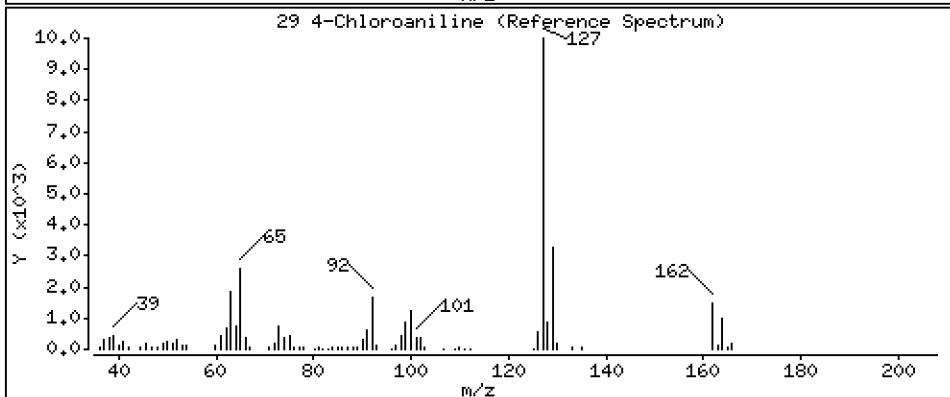
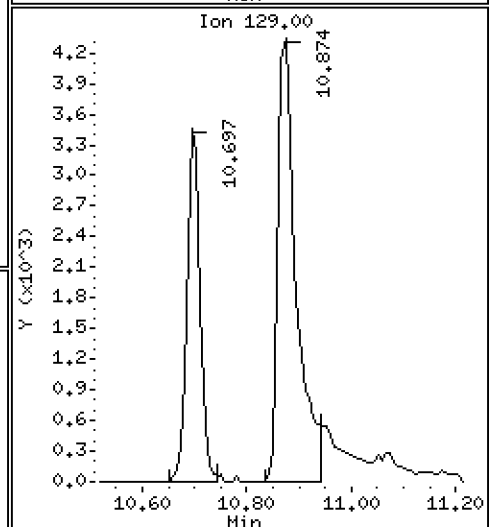
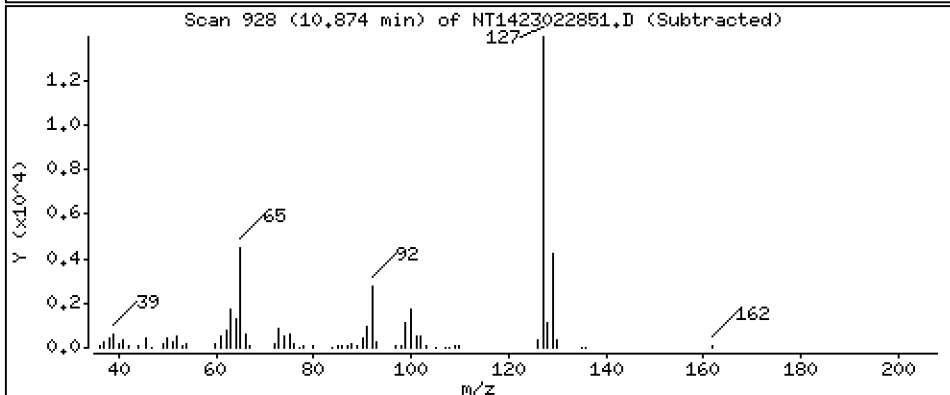
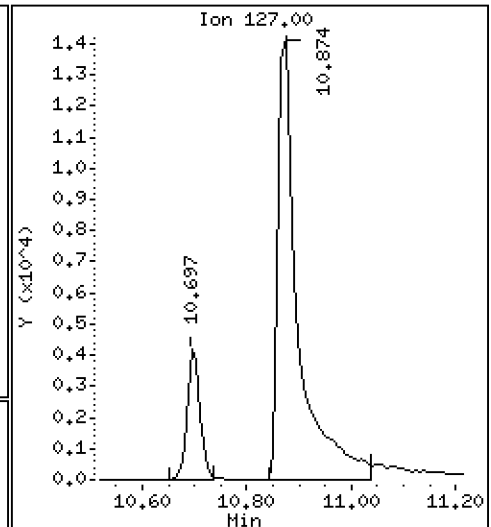
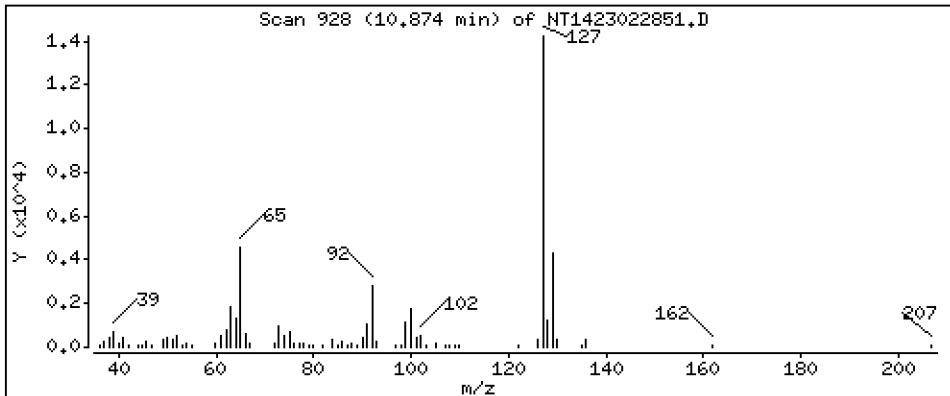
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

29 4-Chloroaniline

Concentration: 0,8631 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

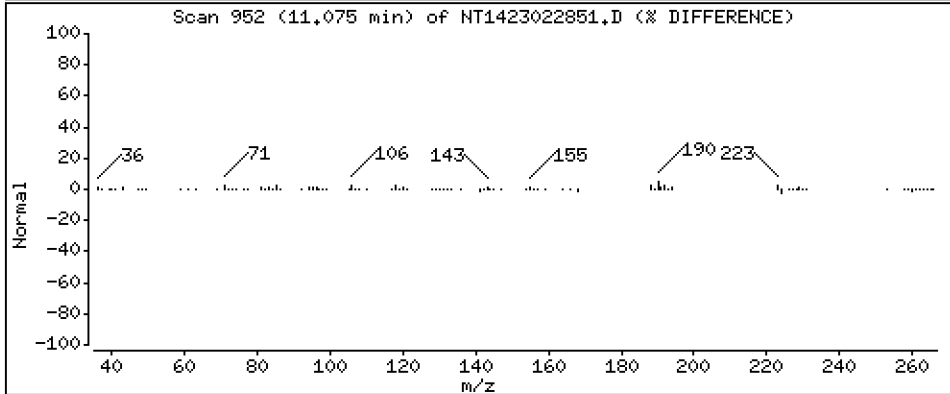
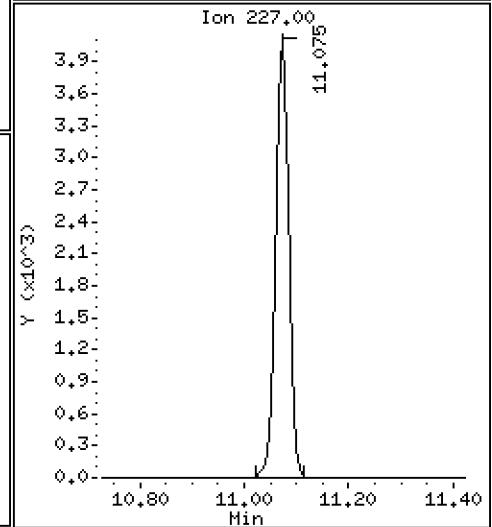
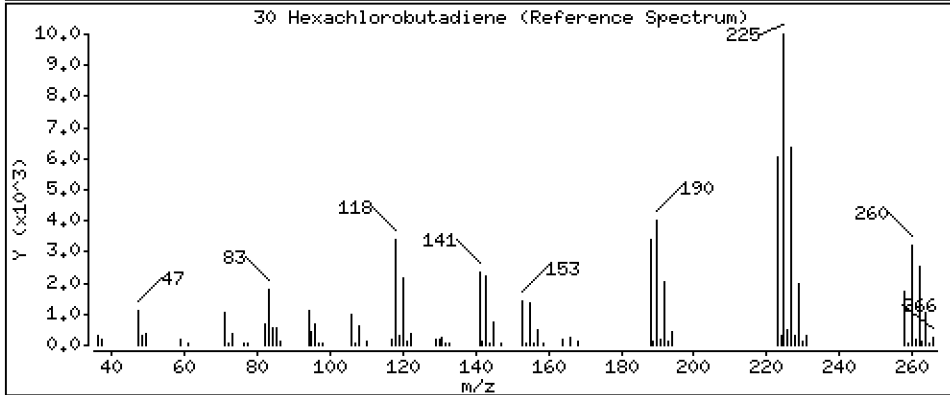
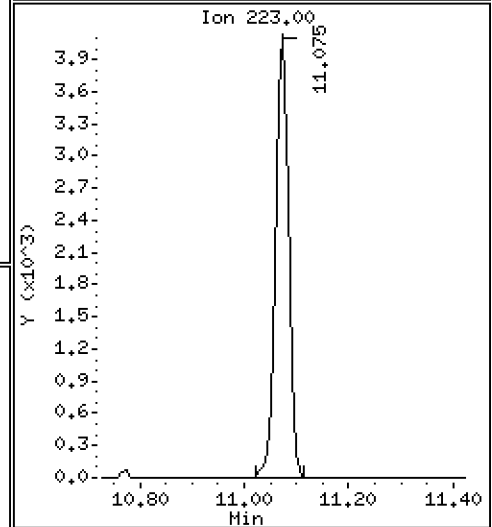
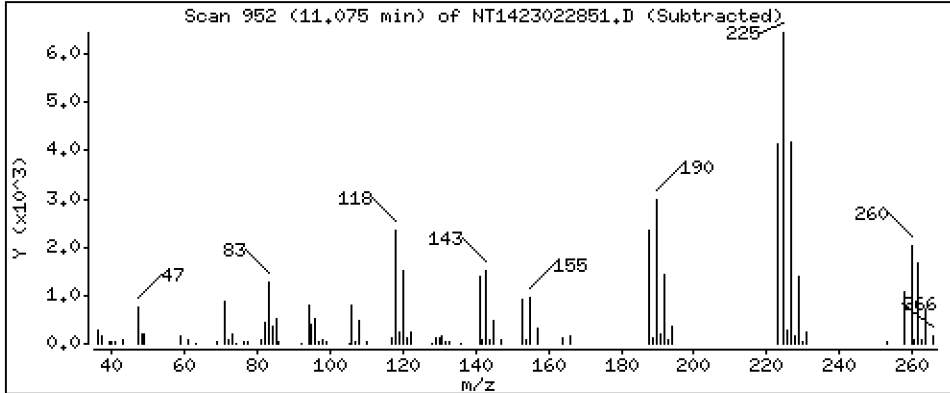
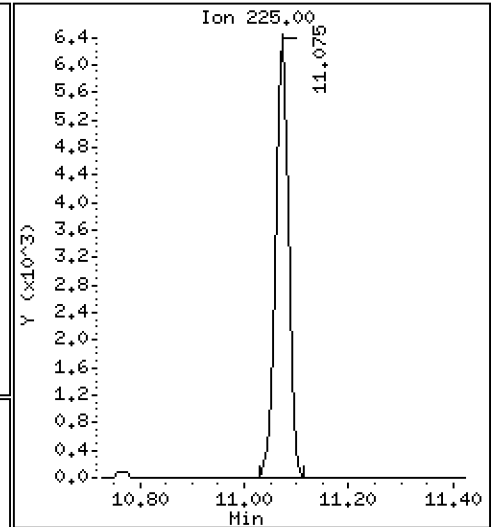
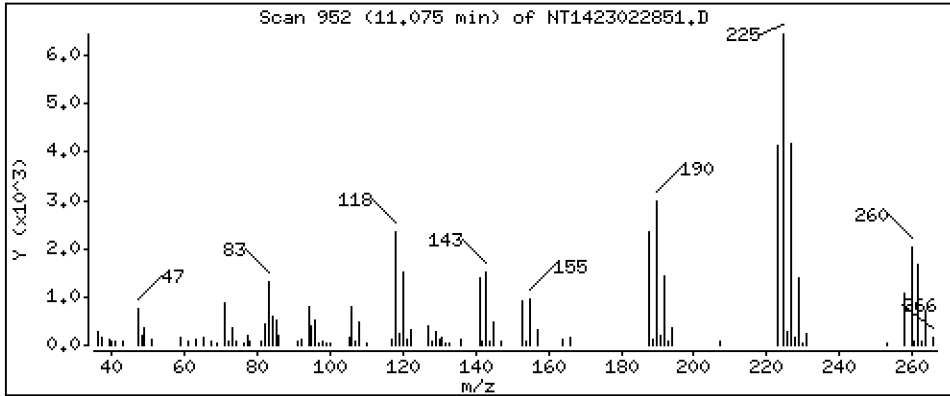
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 0,4391 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

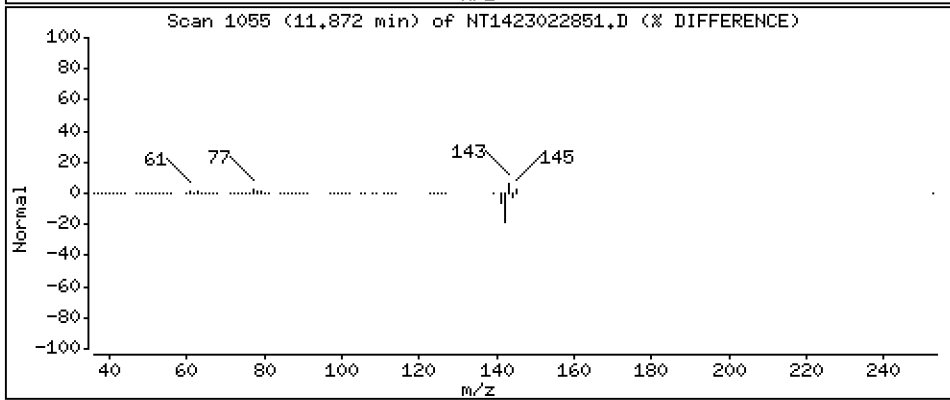
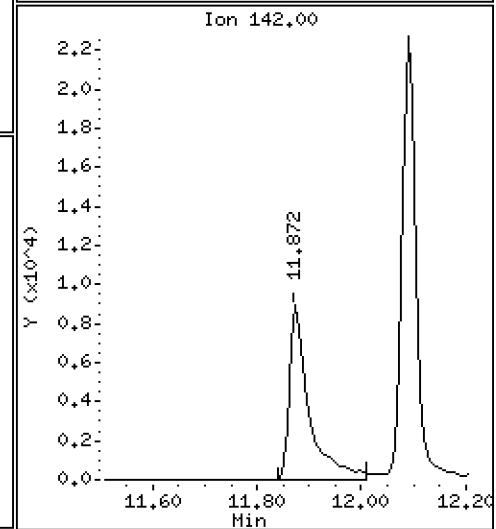
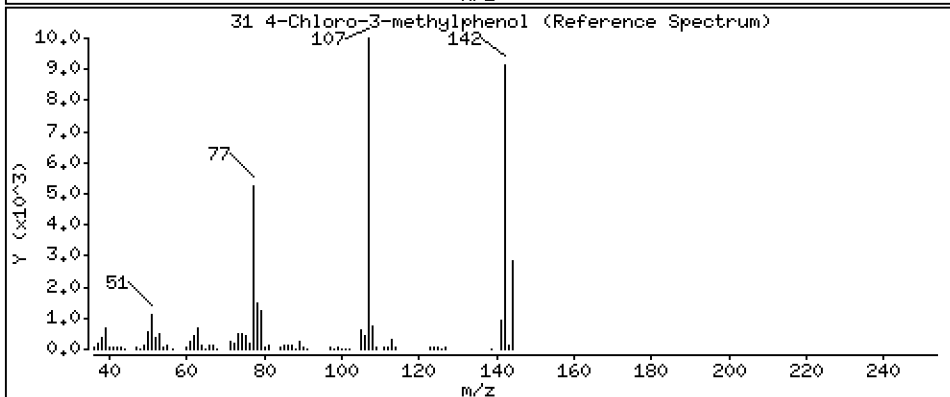
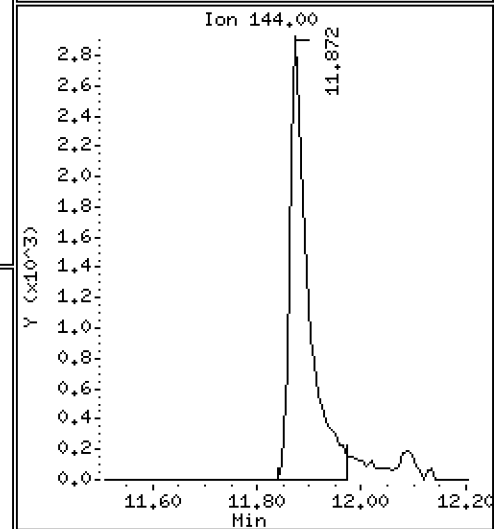
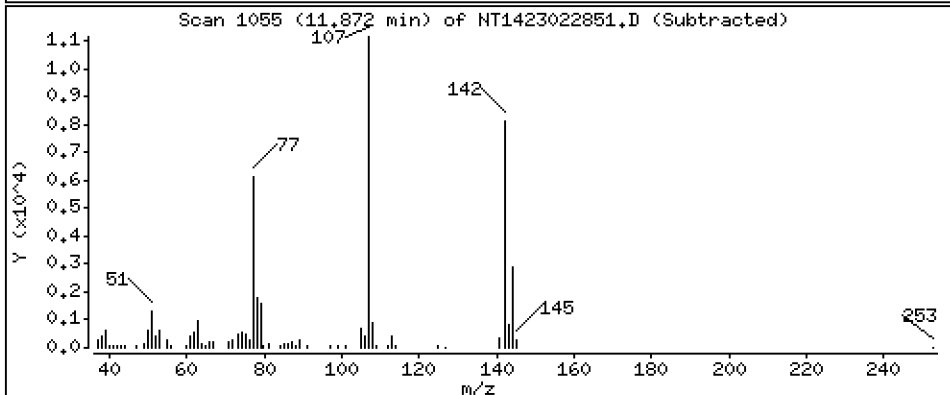
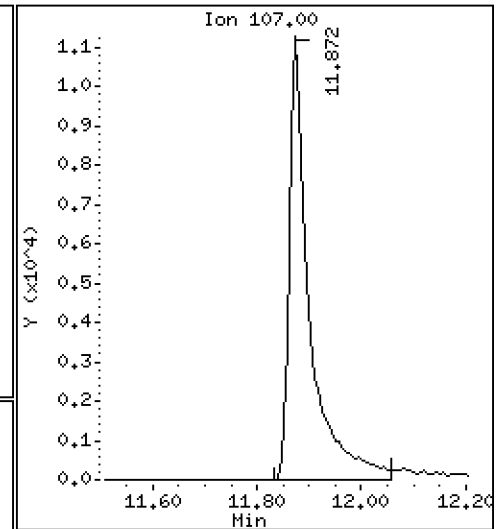
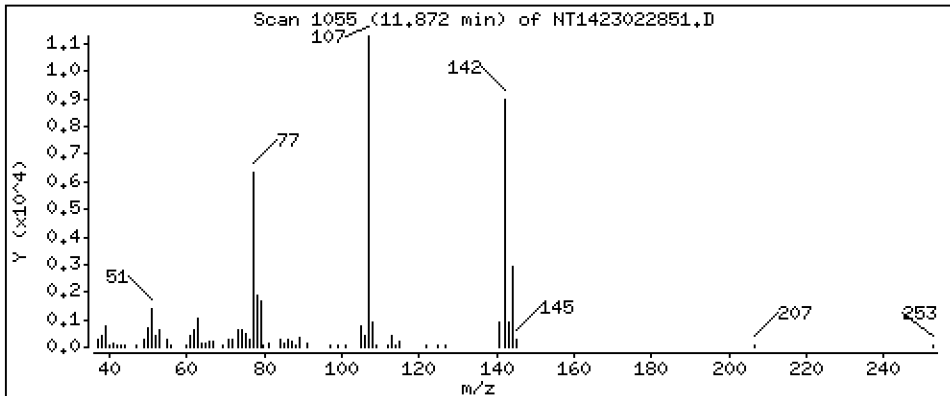
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

31 4-Chloro-3-methylphenol

Concentration: 0,9903 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

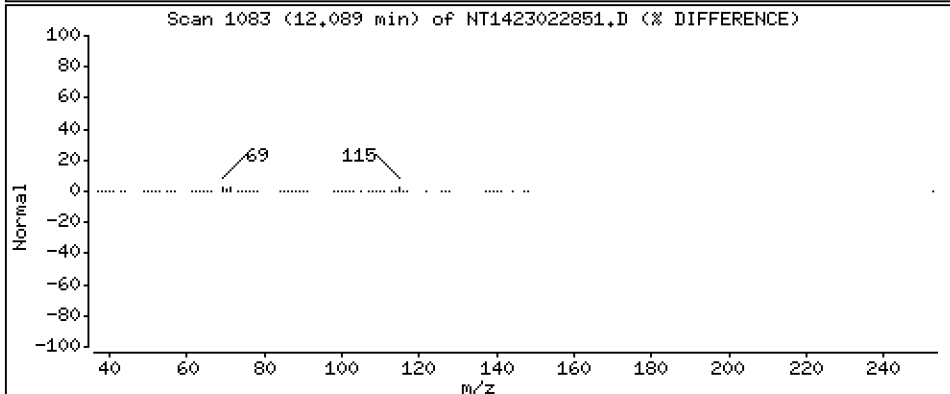
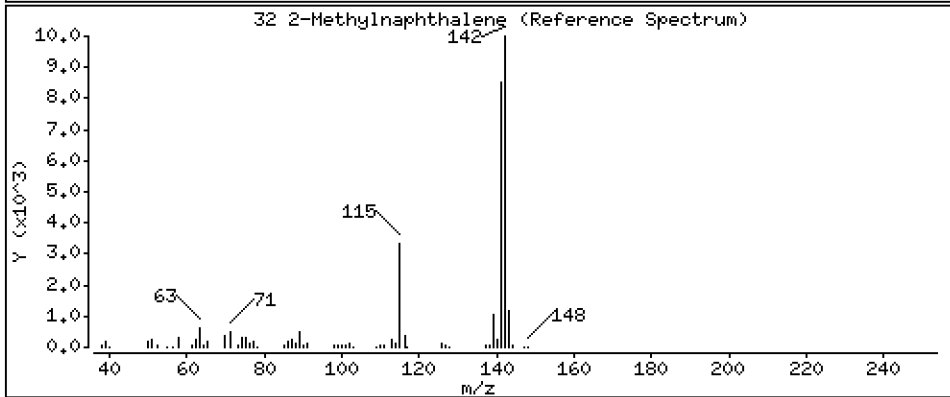
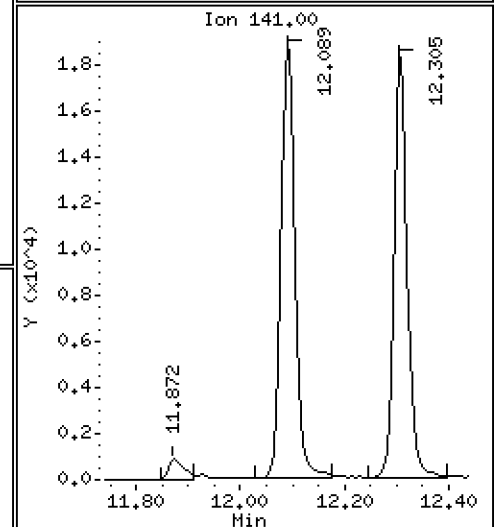
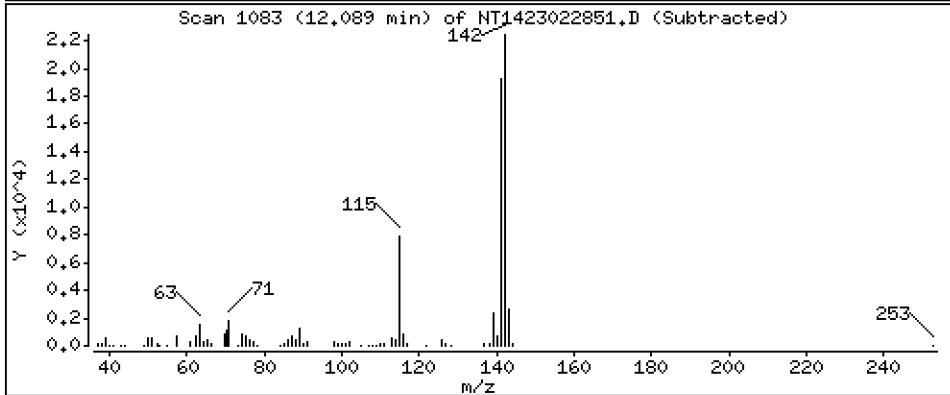
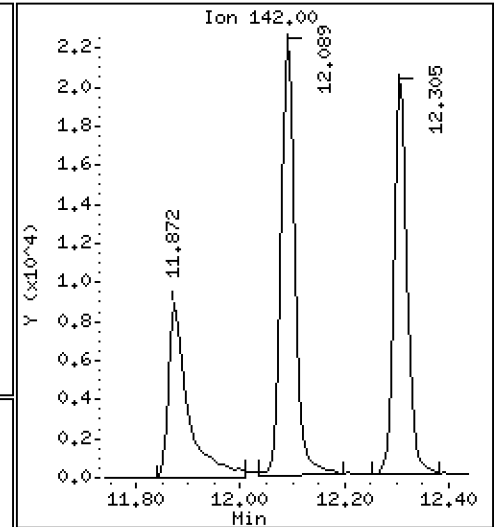
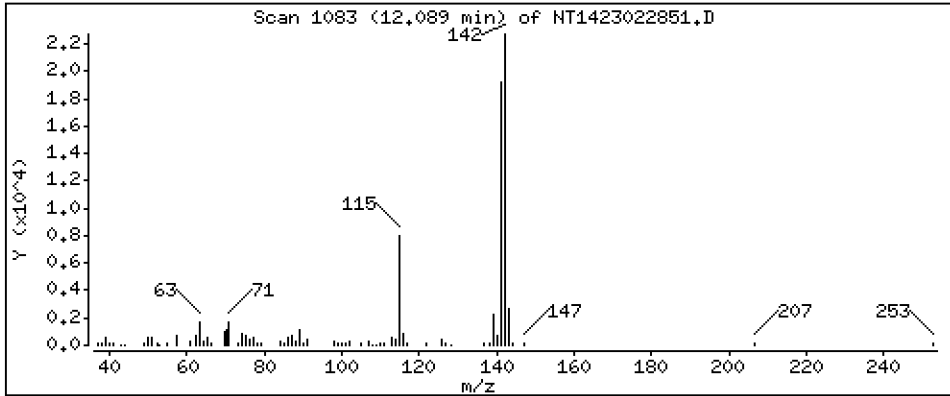
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 0,4960 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

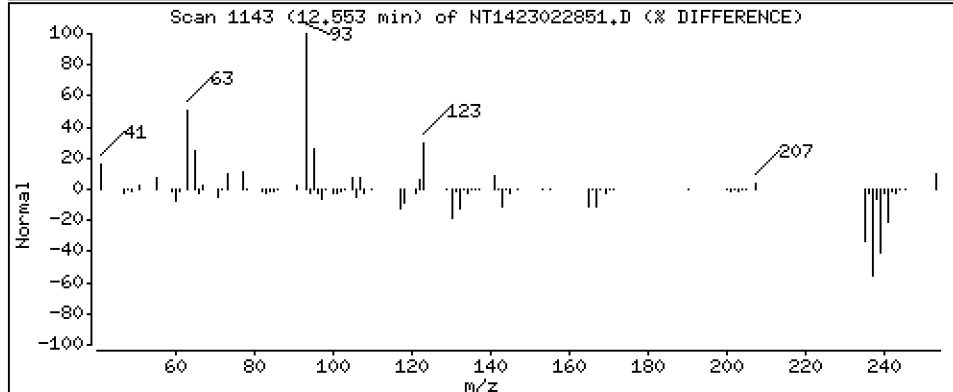
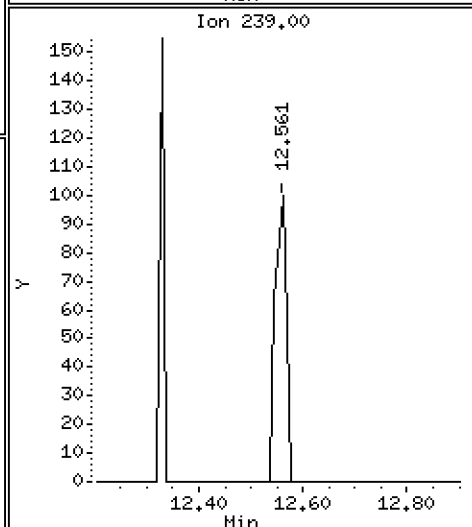
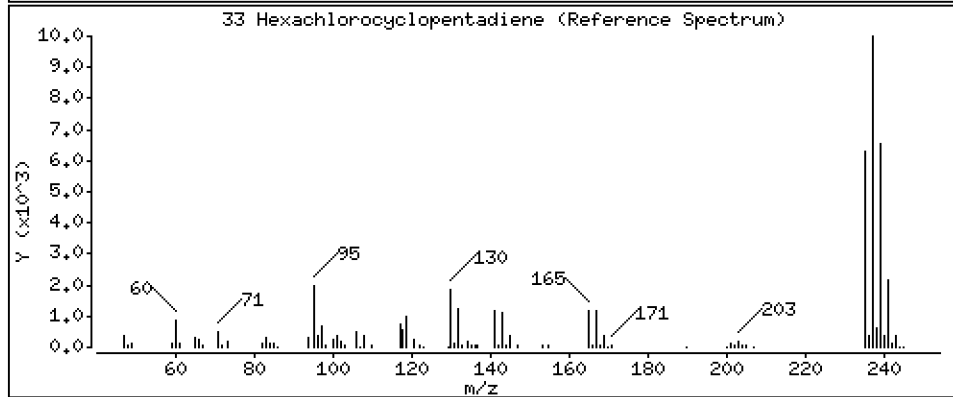
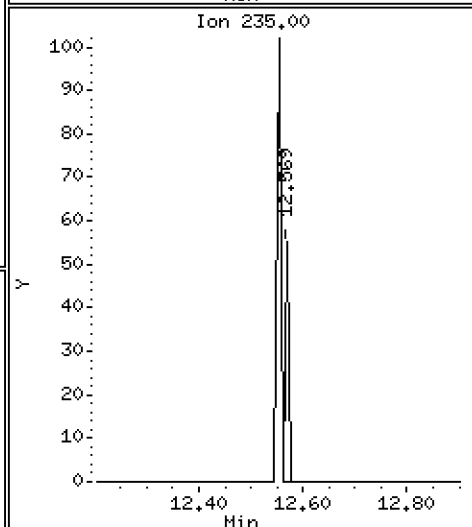
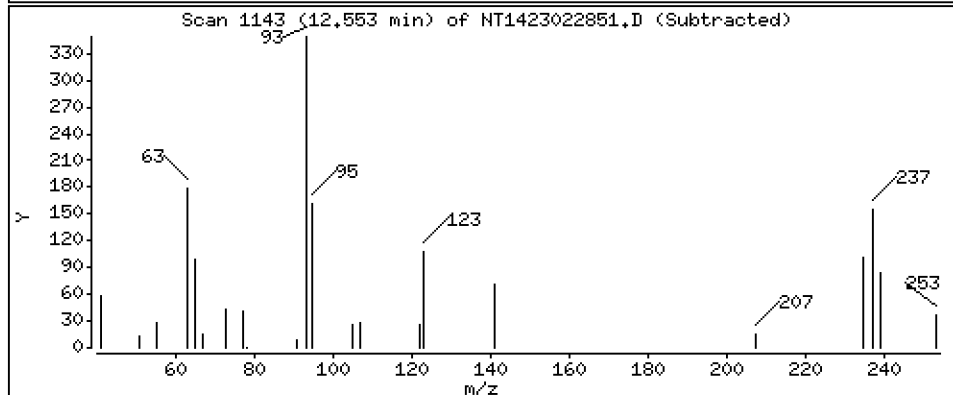
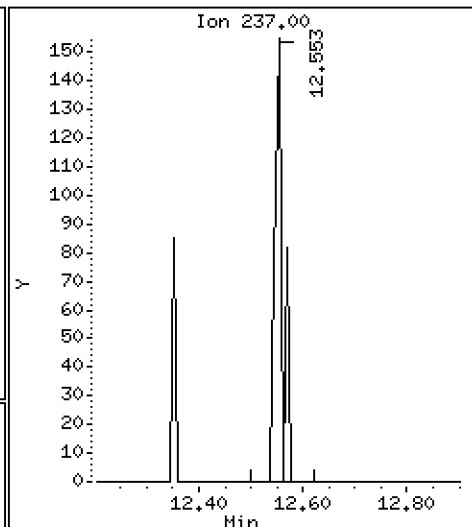
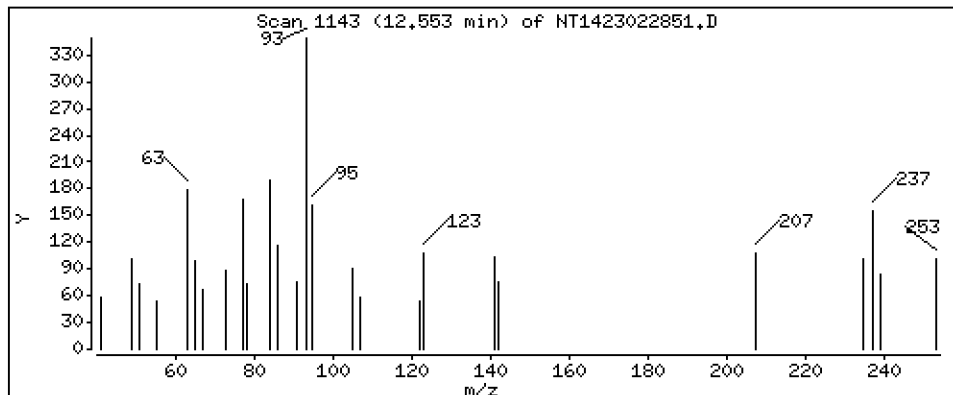
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

33 Hexachlorocyclopentadiene

Concentration: 0,006113 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

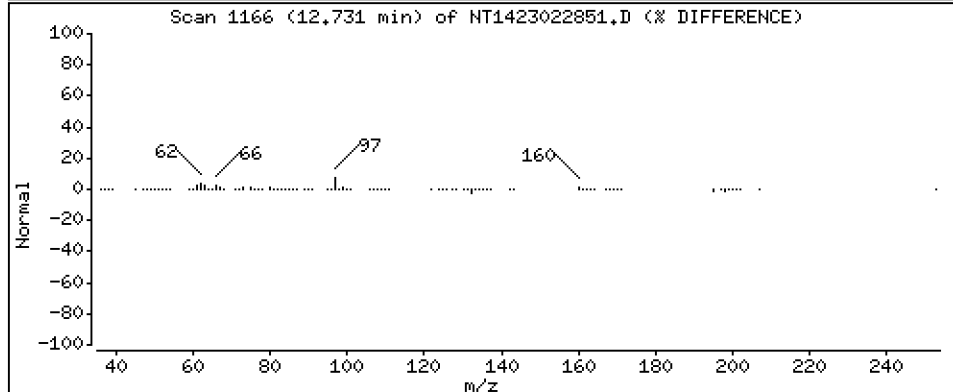
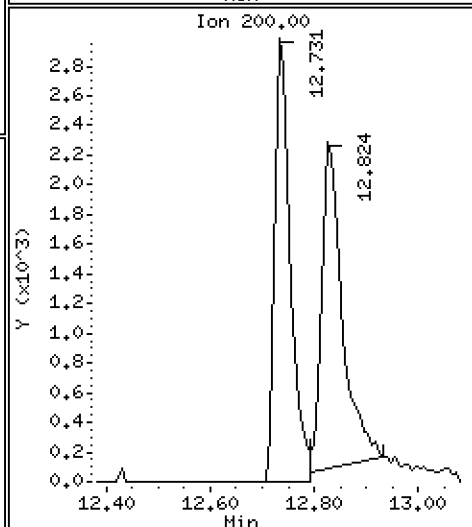
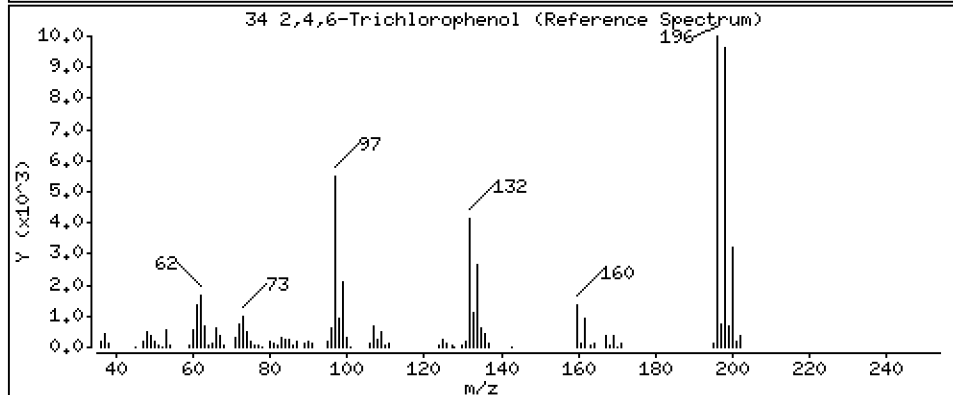
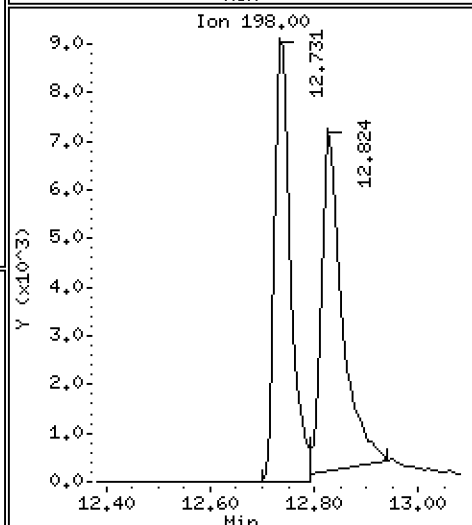
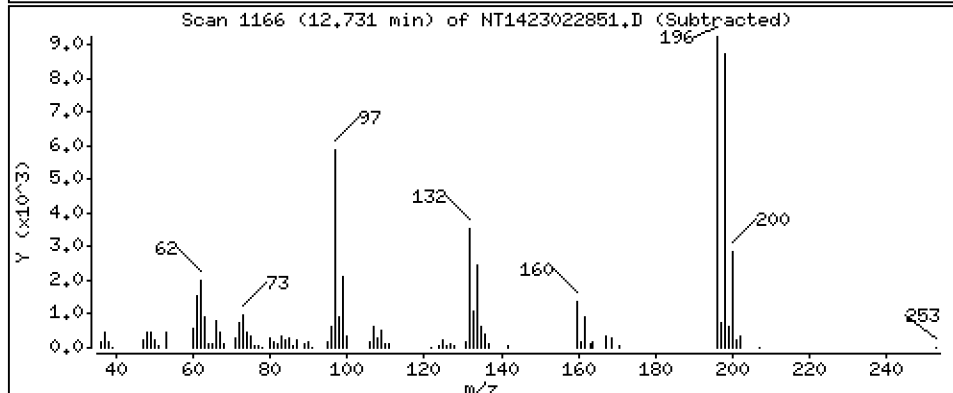
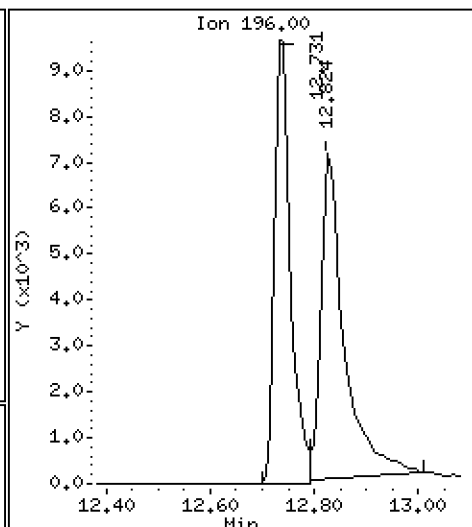
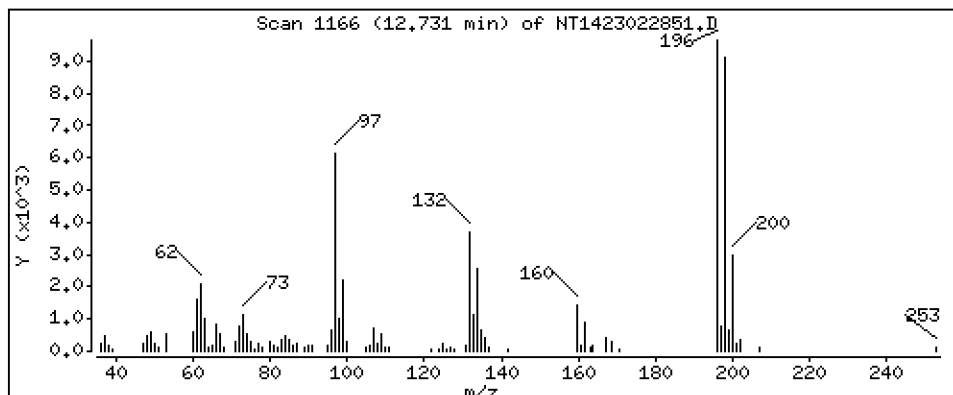
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

34 2,4,6-Trichlorophenol

Concentration: 0,9205 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

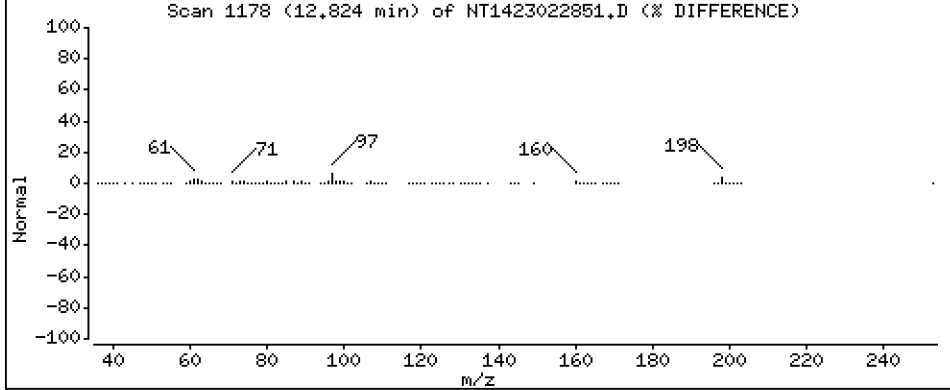
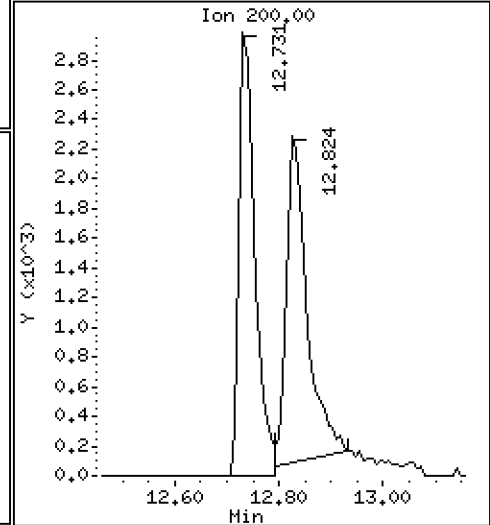
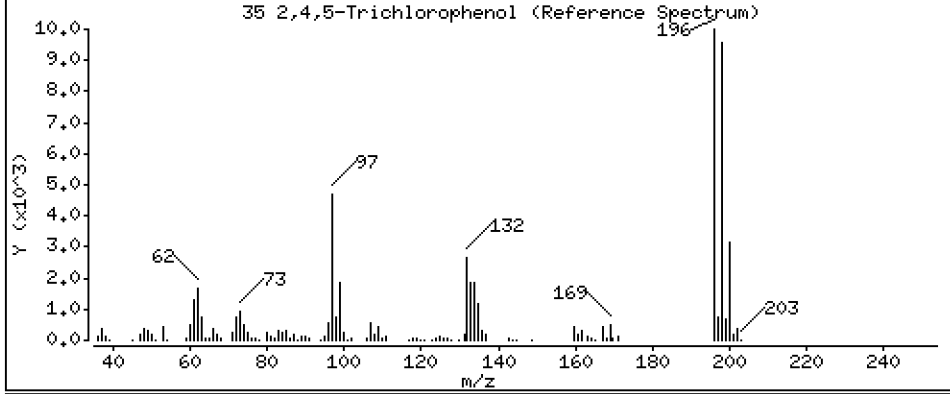
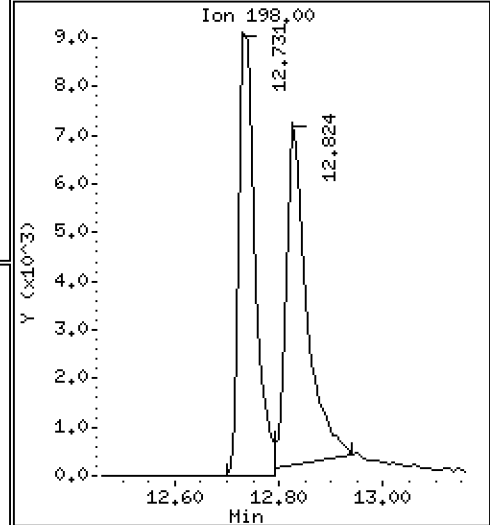
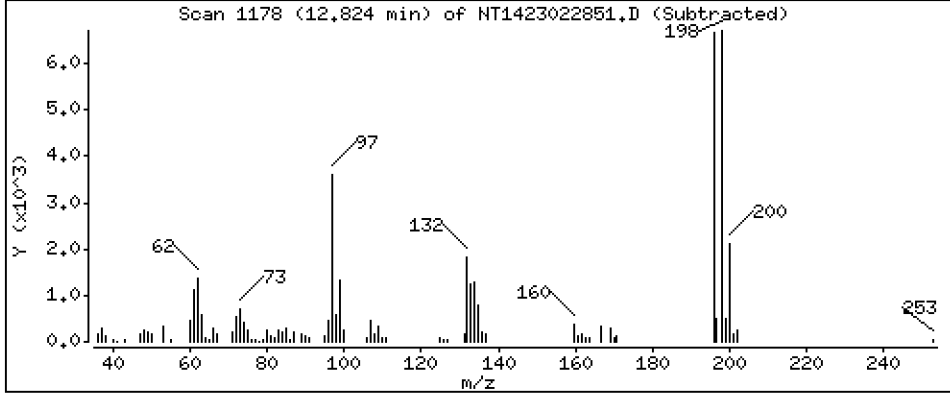
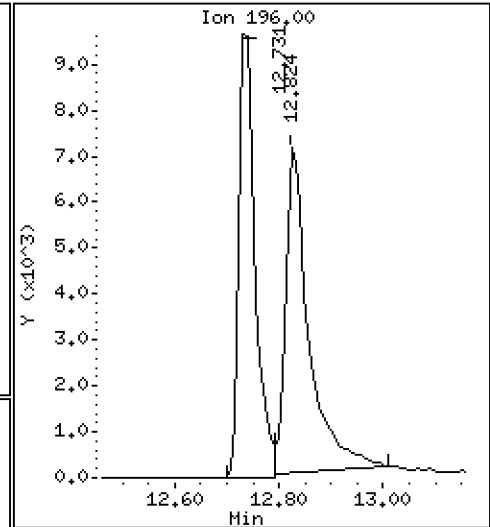
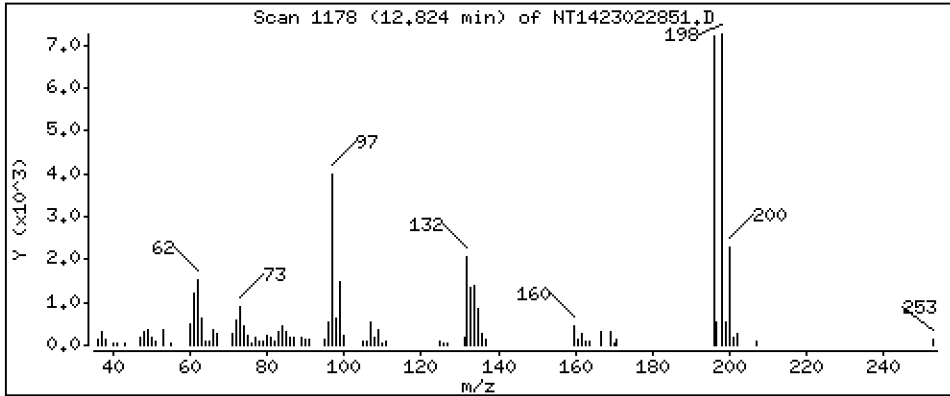
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

35 2,4,5-Trichlorophenol

Concentration: 0,9325 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

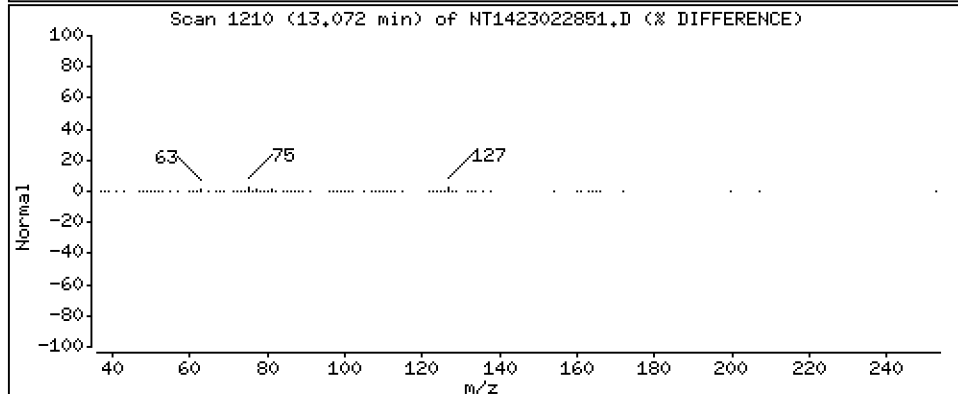
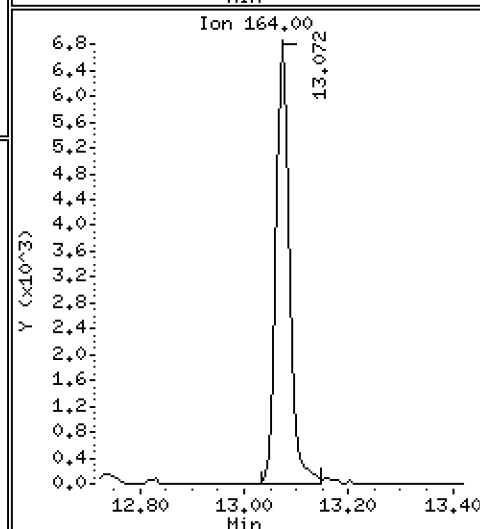
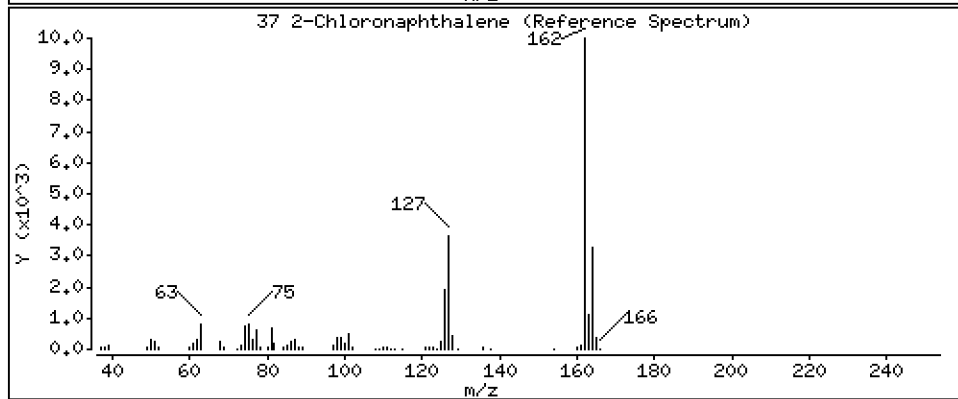
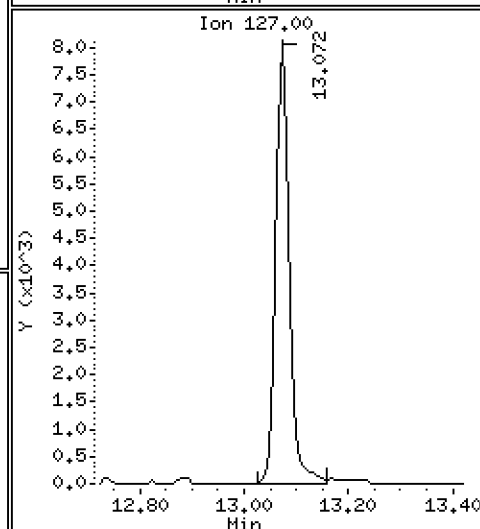
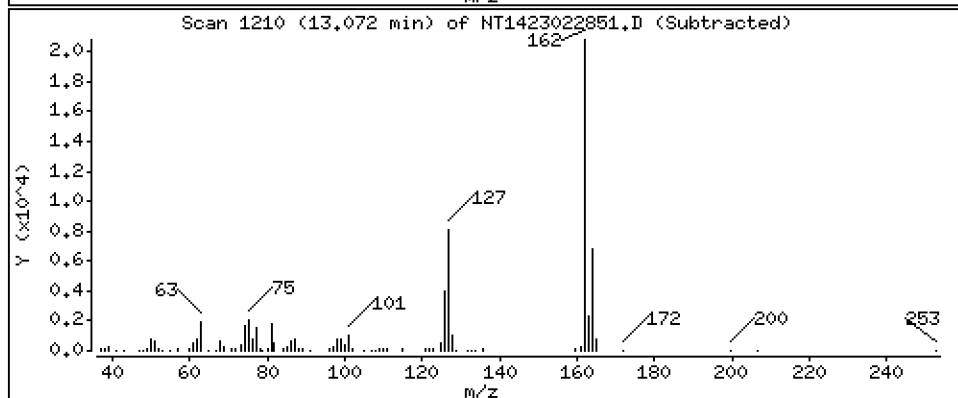
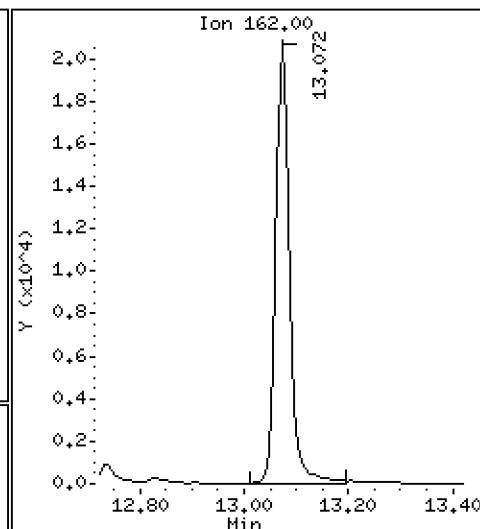
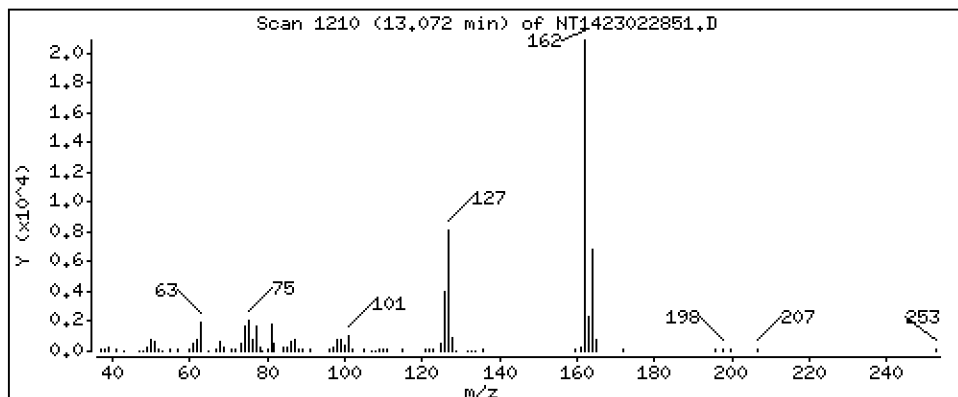
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

37 2-Chloronaphthalene

Concentration: 0,5208 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

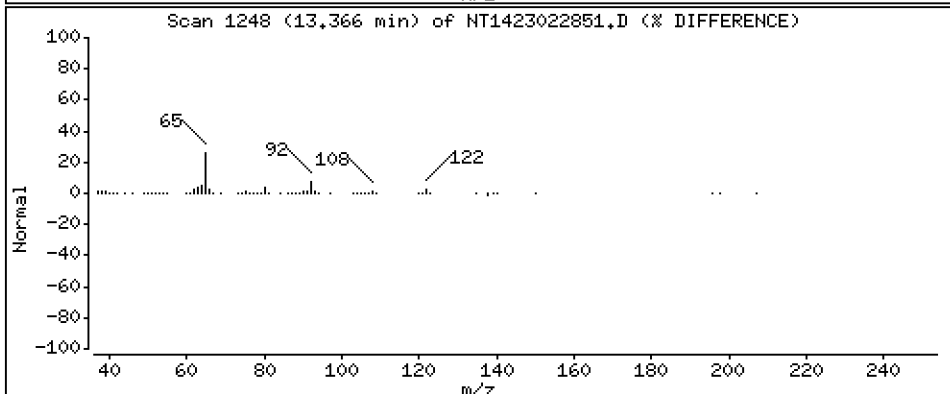
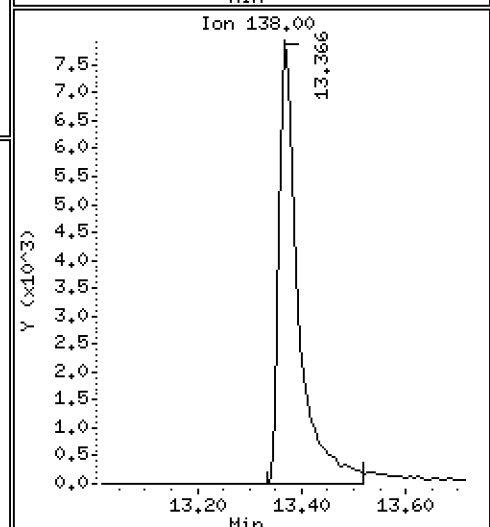
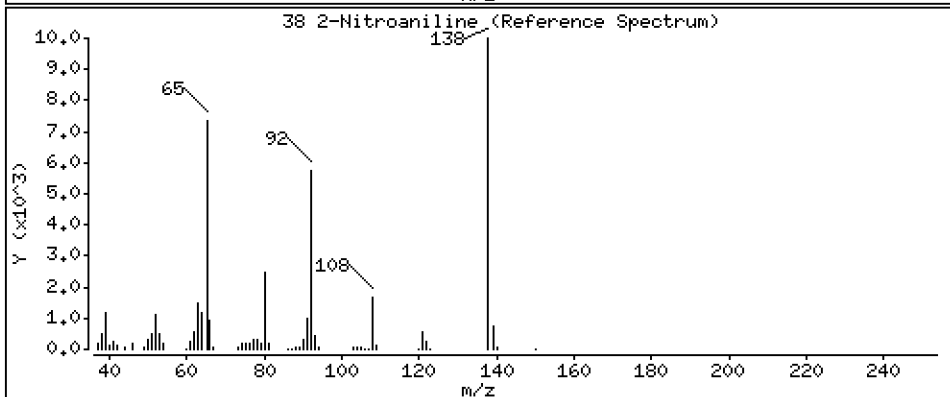
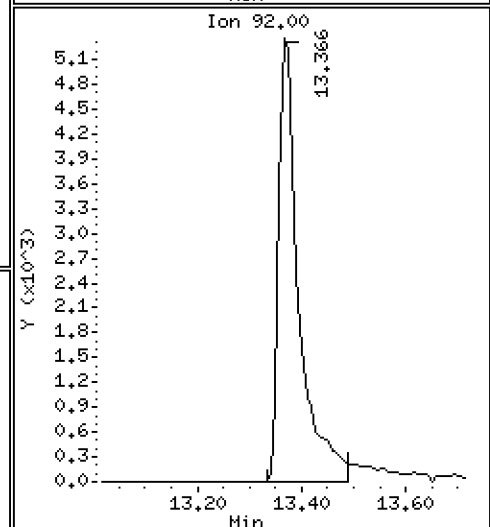
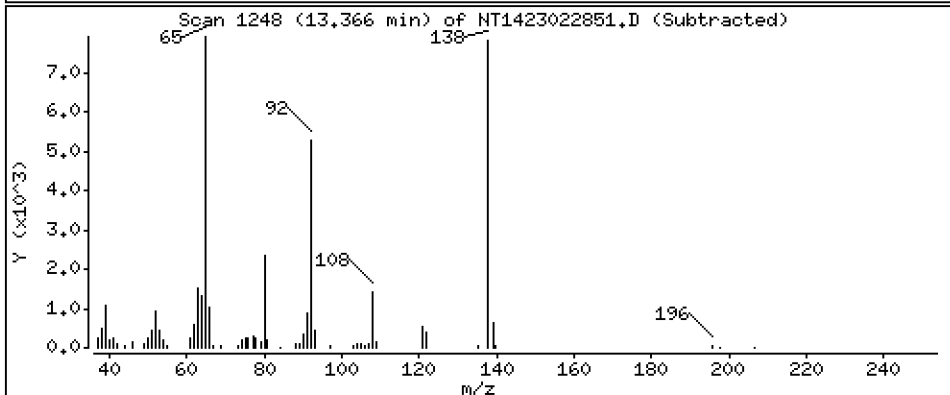
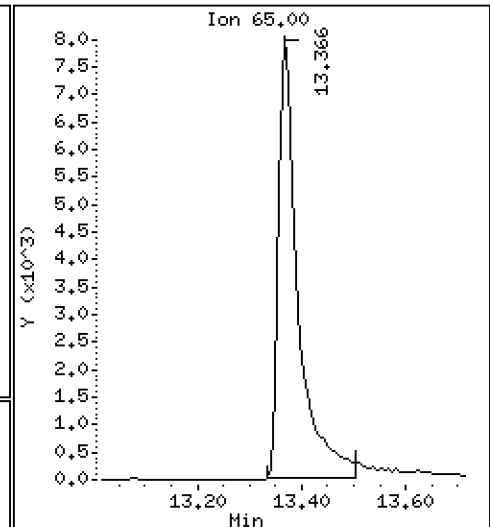
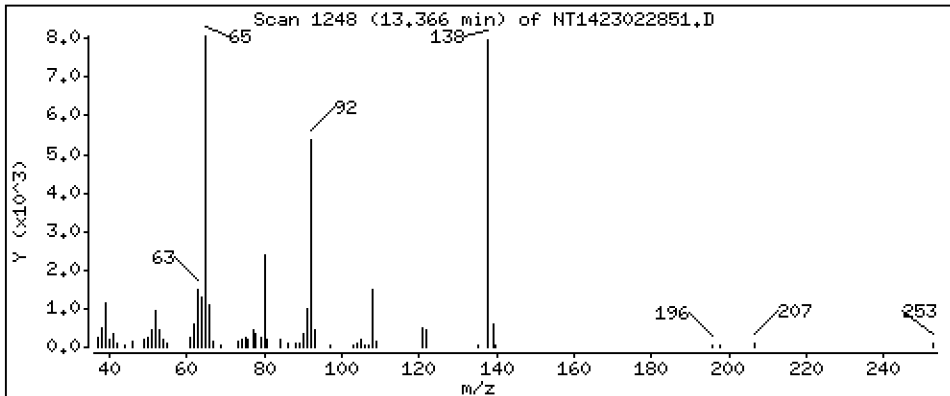
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

38 2-Nitroaniline

Concentration: 1,095 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

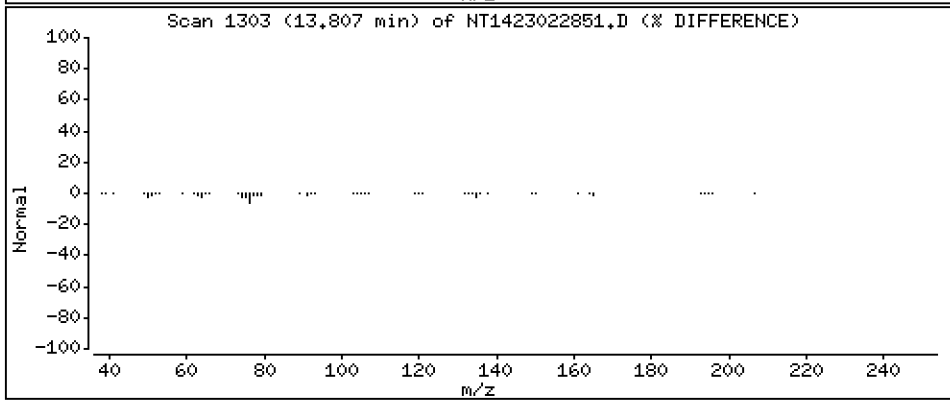
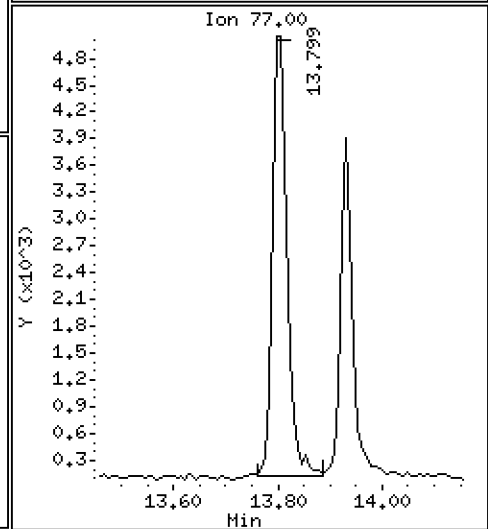
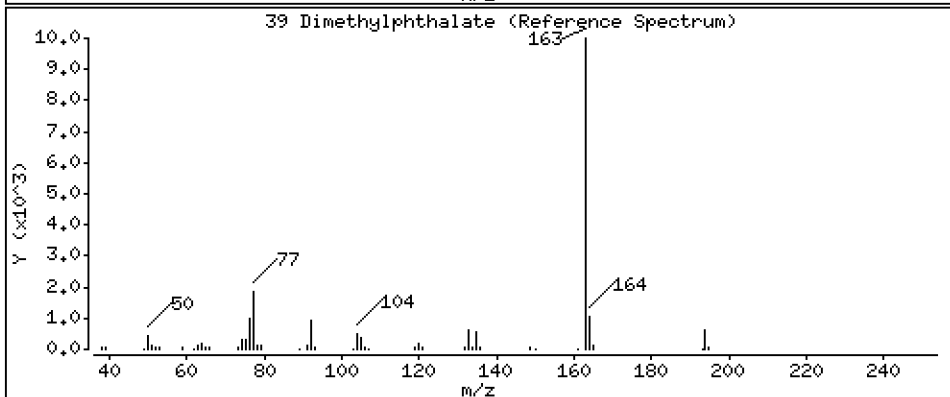
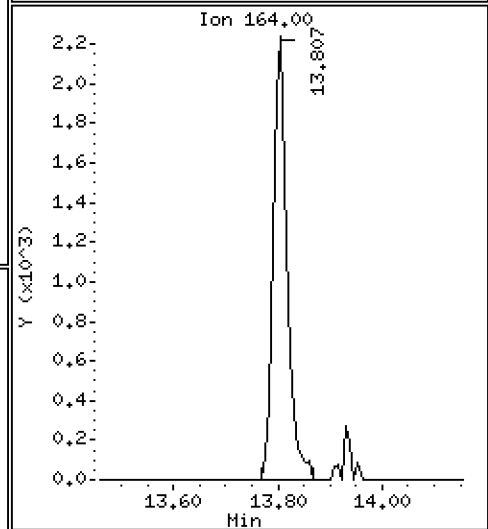
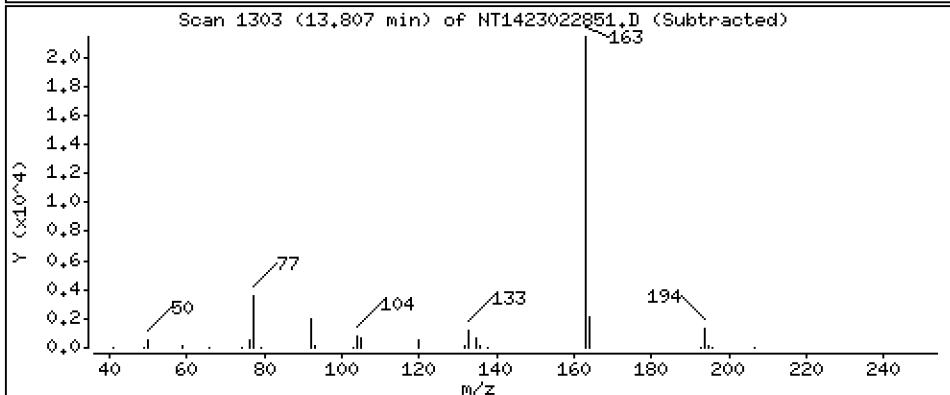
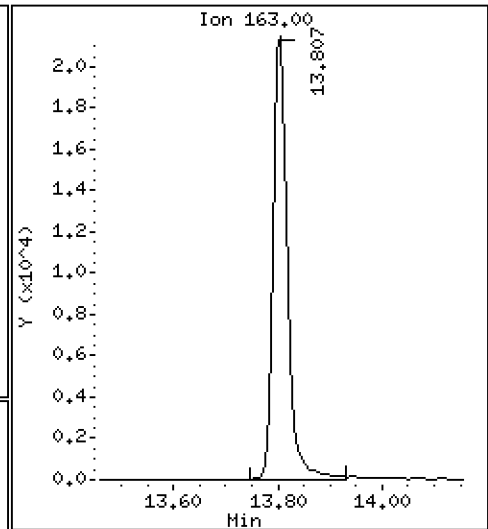
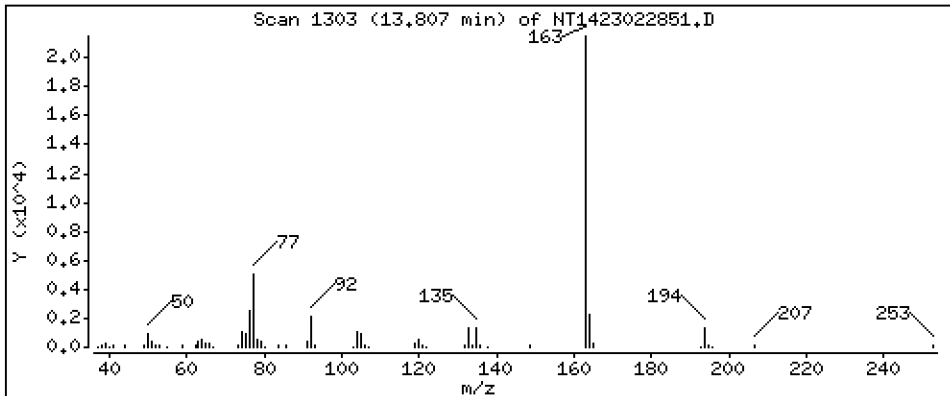
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 0,5564 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

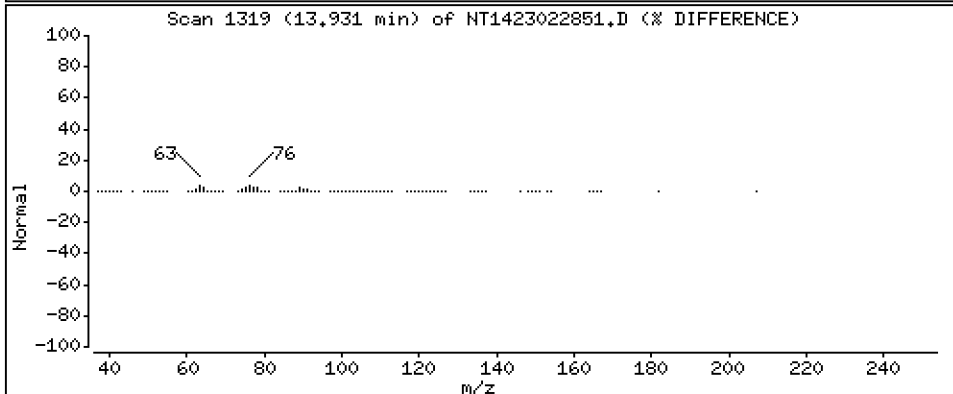
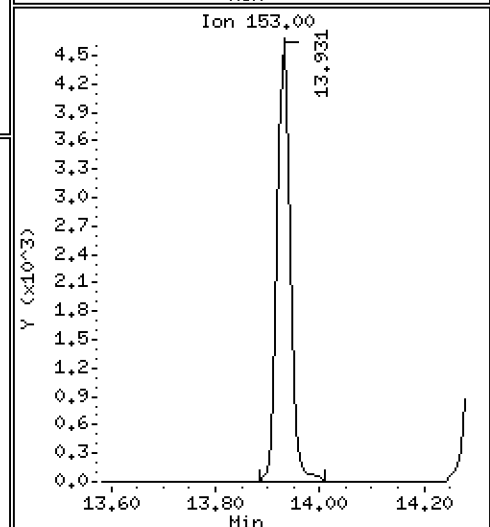
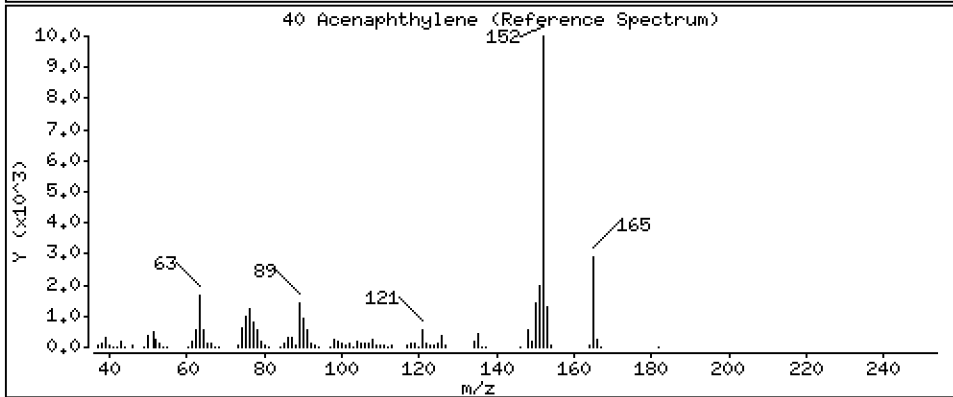
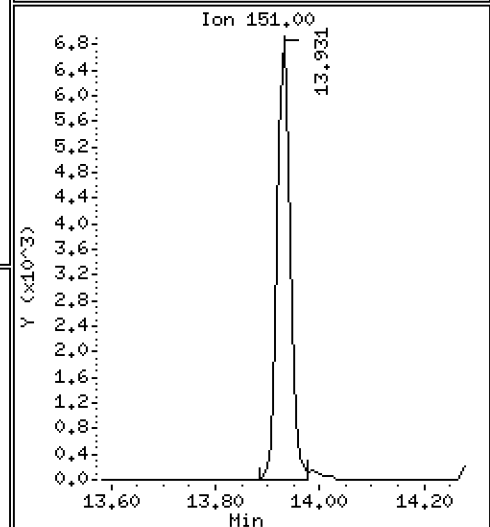
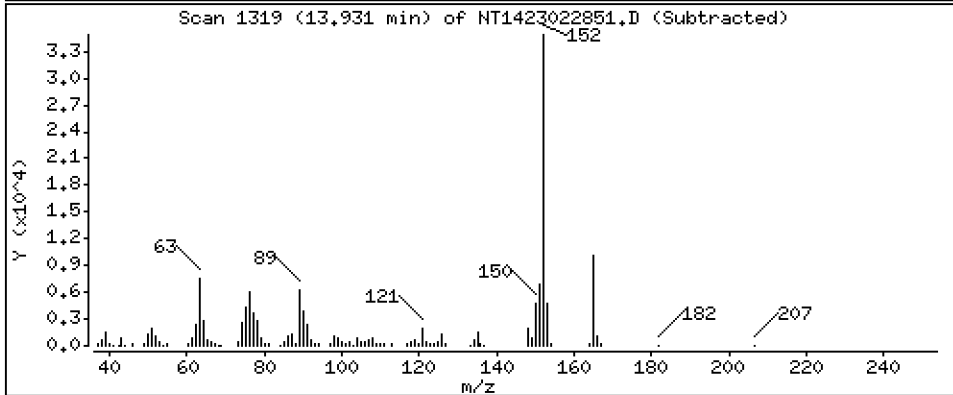
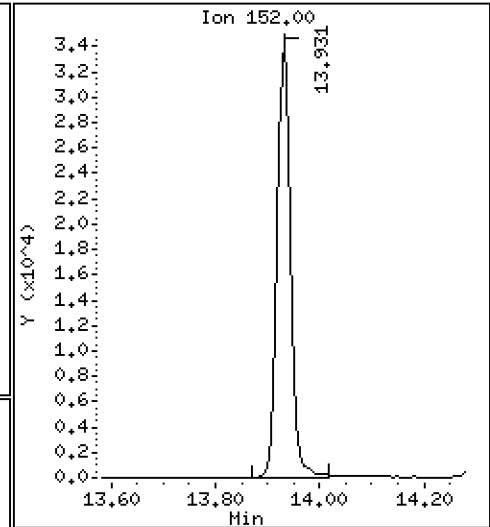
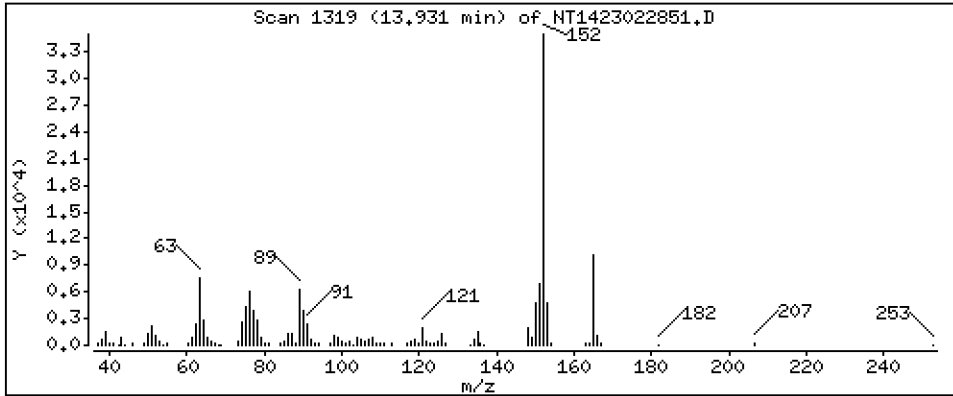
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 0,5661 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

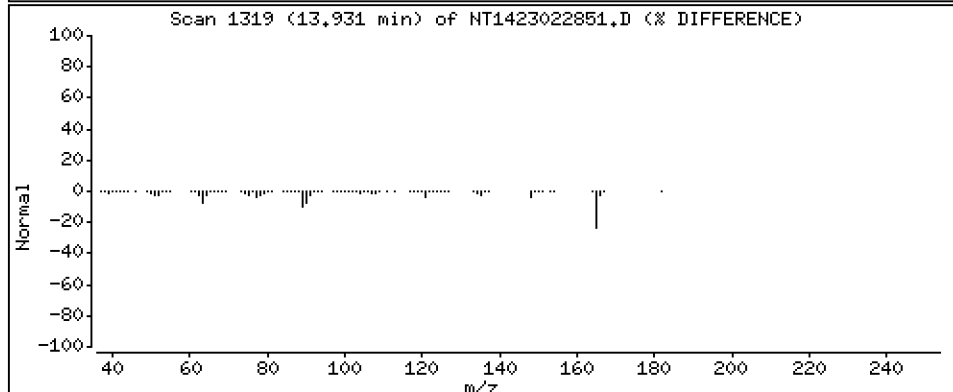
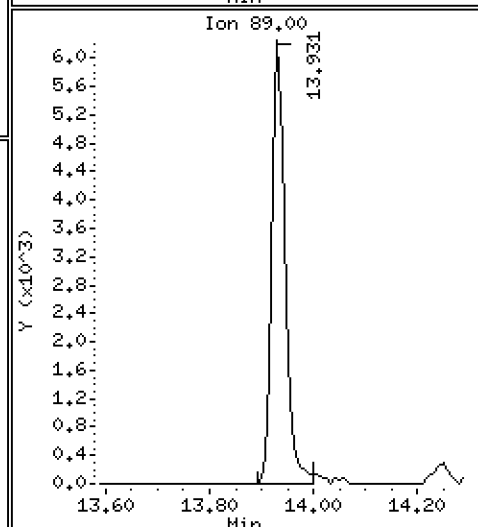
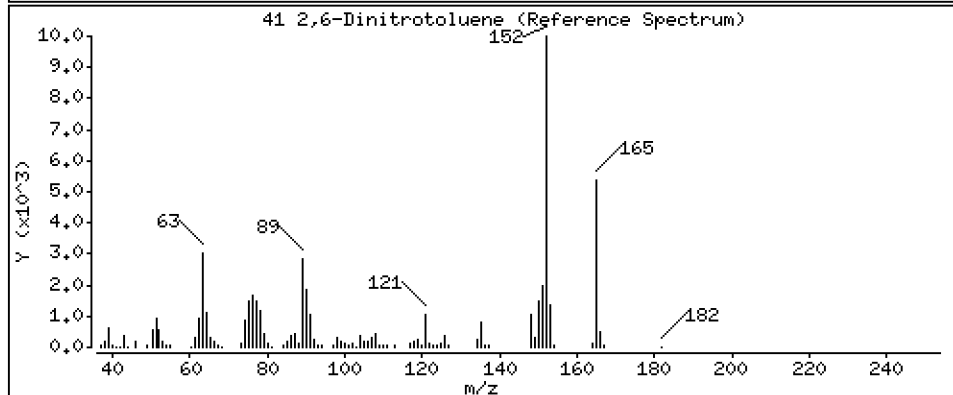
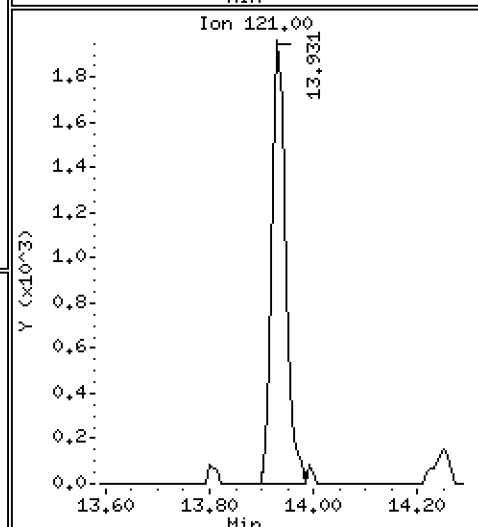
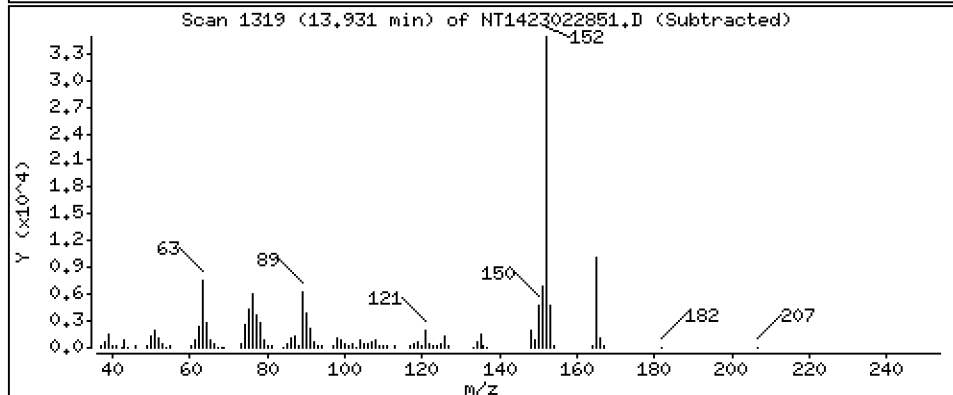
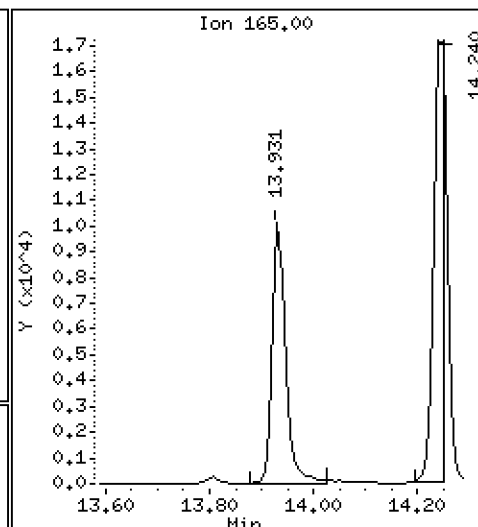
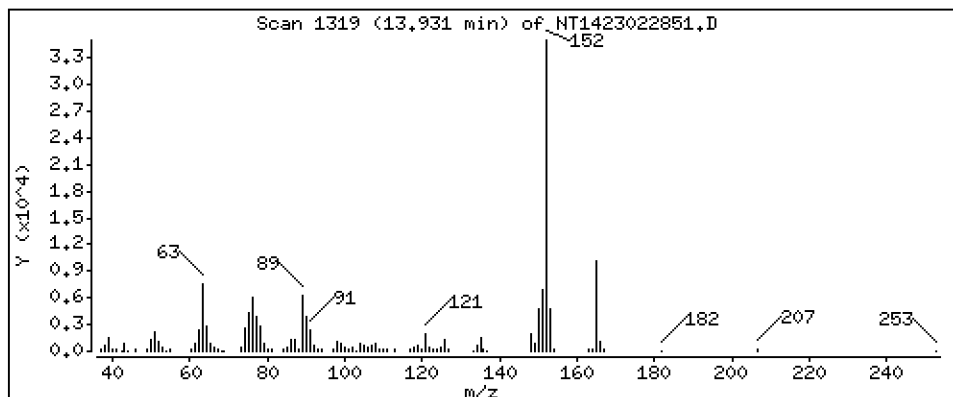
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

41 2,6-Dinitrotoluene

Concentration: 1,034 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

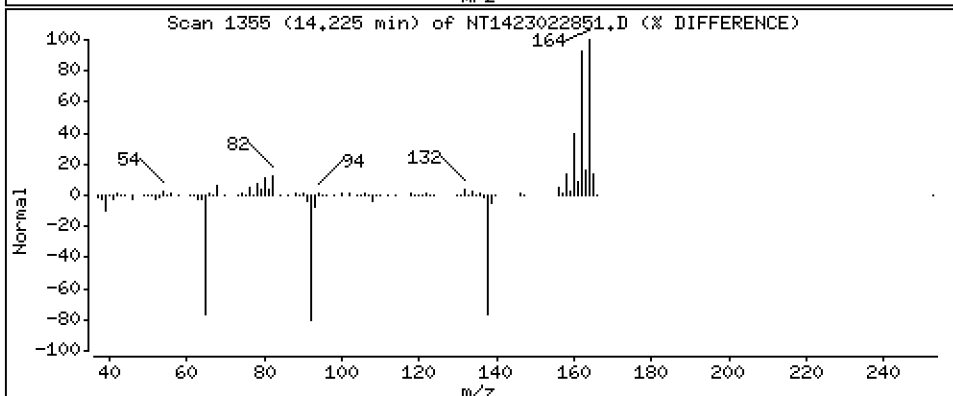
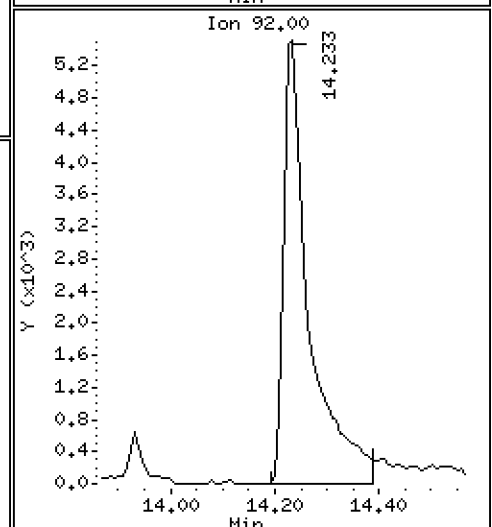
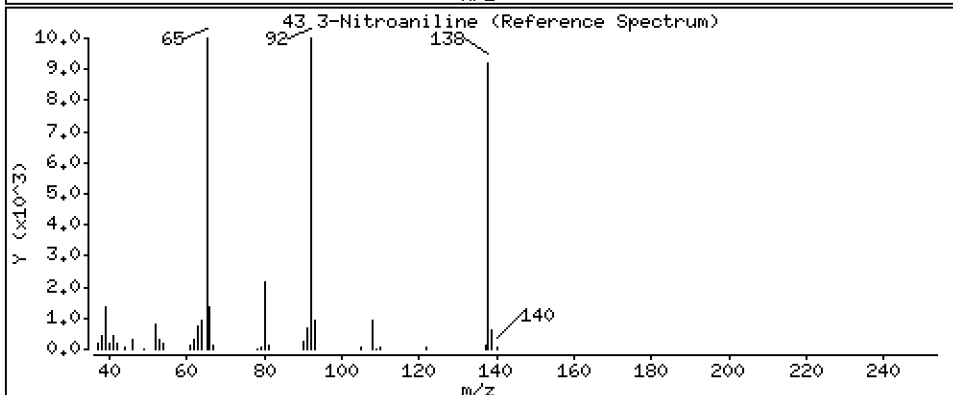
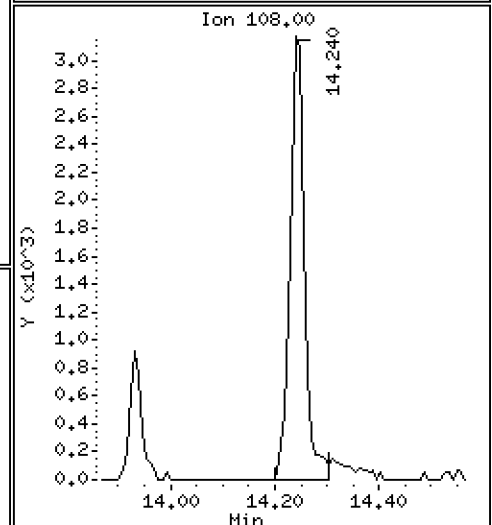
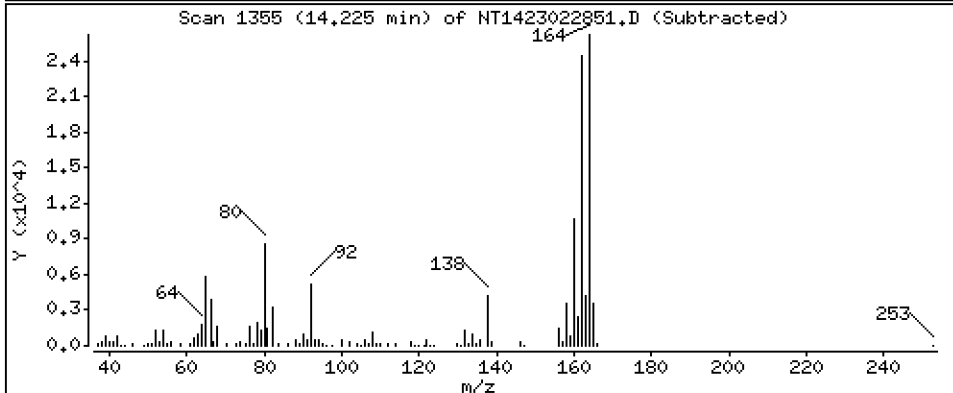
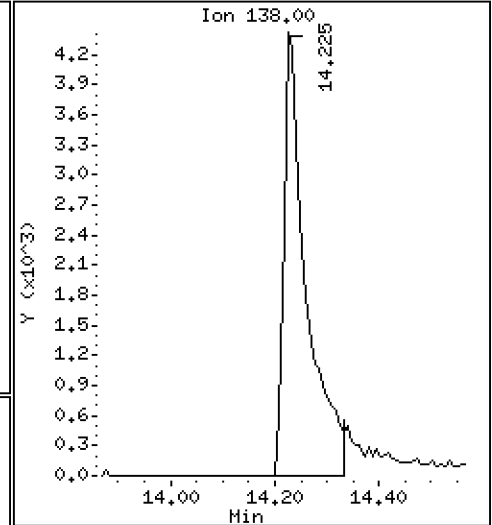
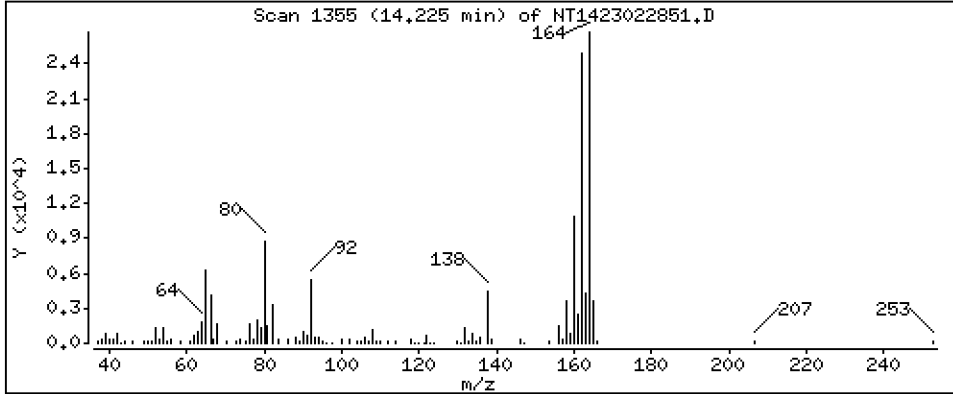
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

43 3-Nitroaniline

Concentration: 0.7771 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

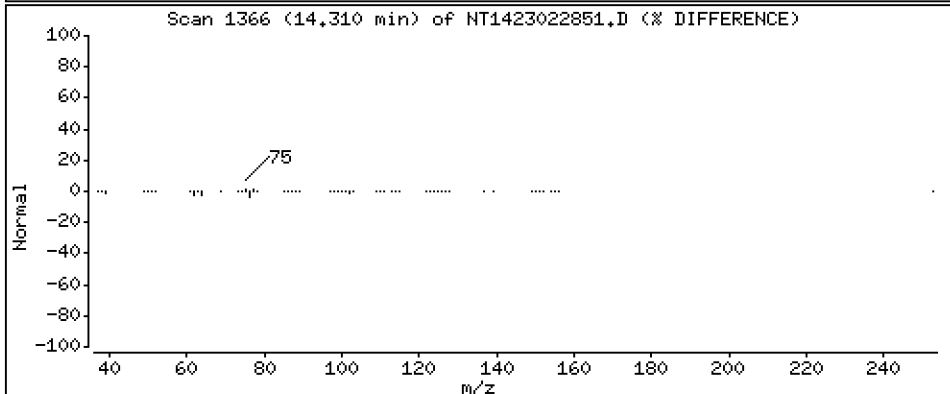
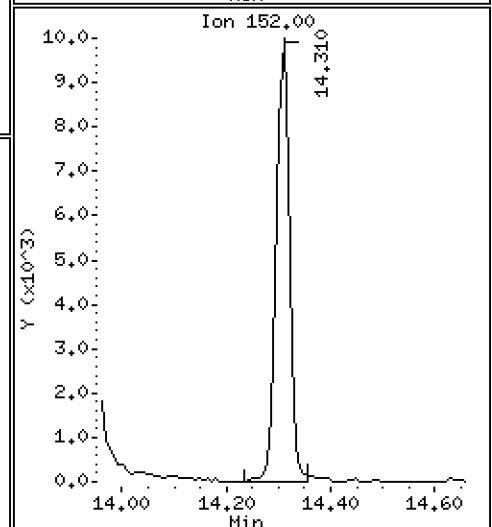
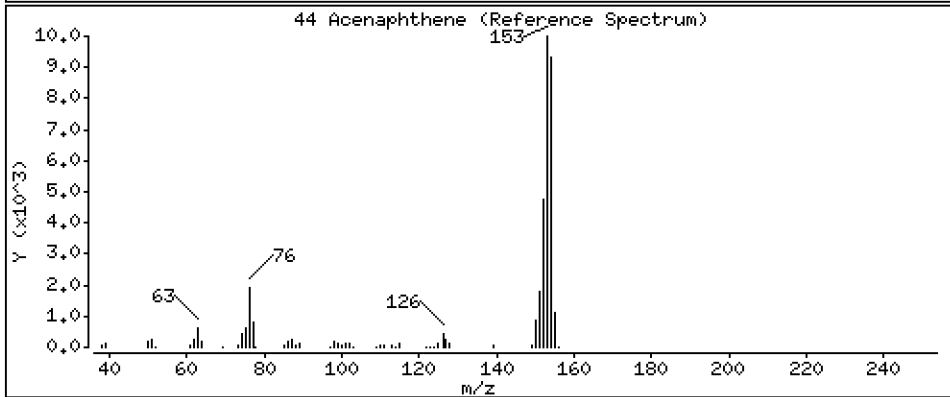
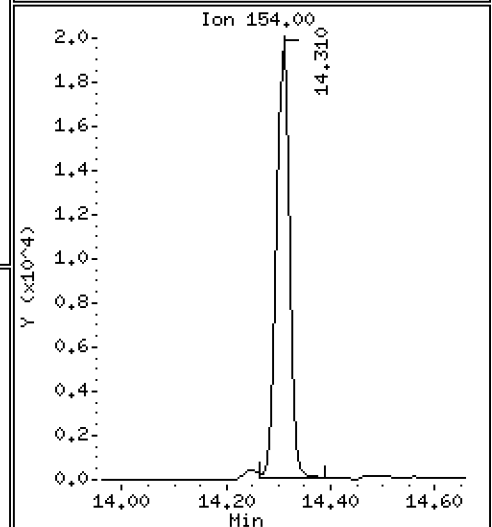
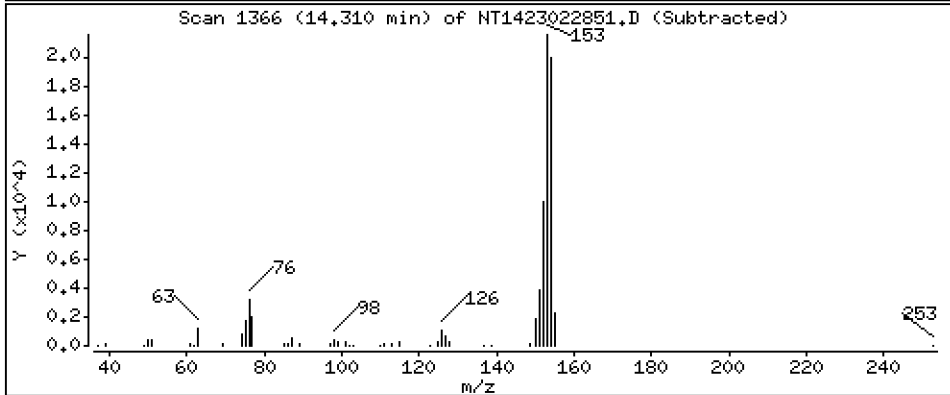
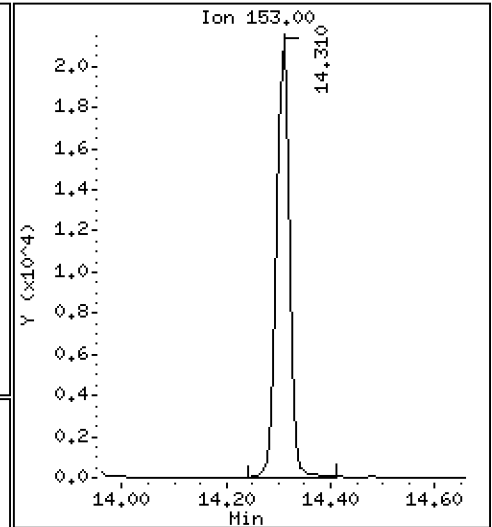
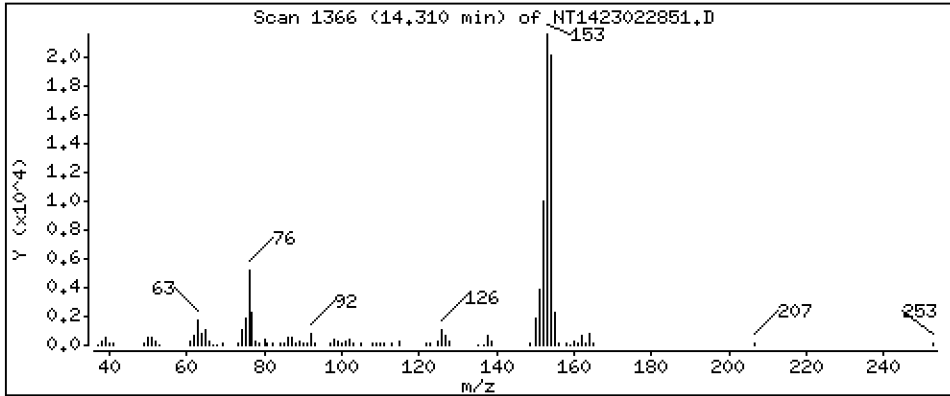
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 0,5300 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

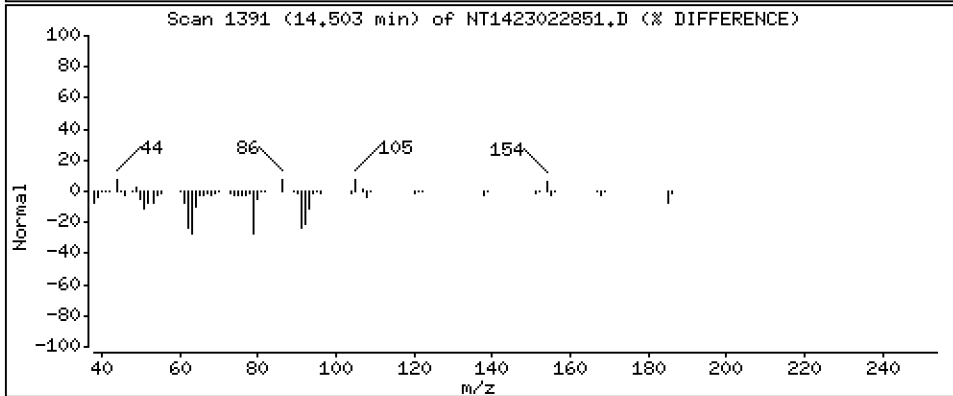
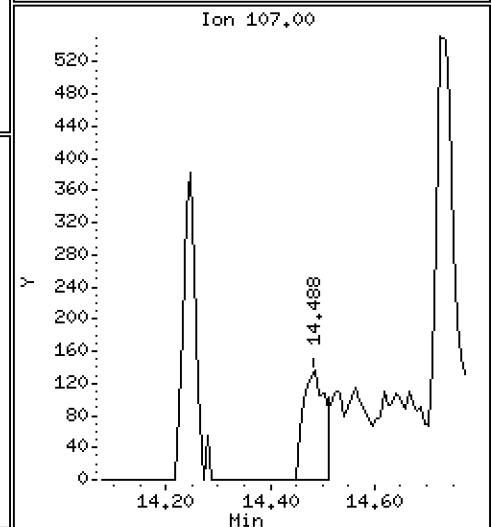
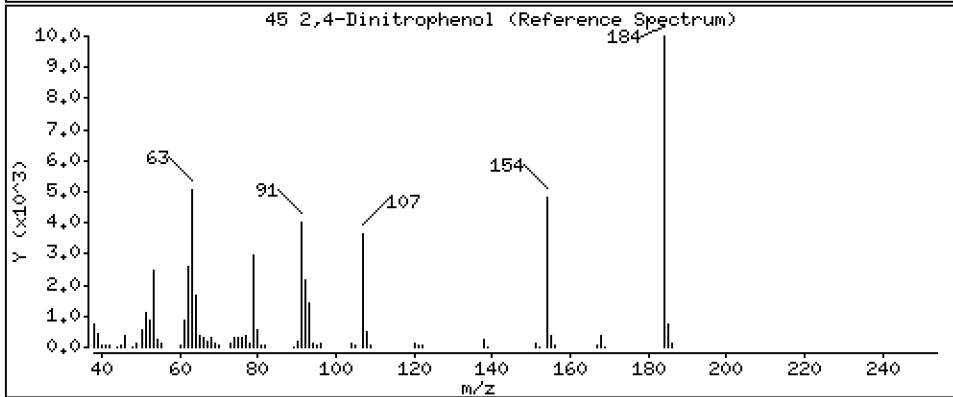
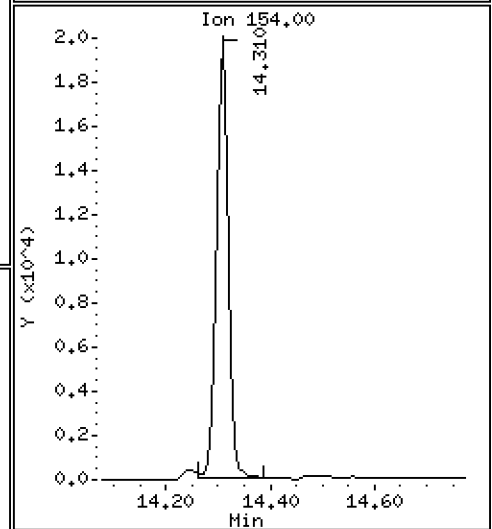
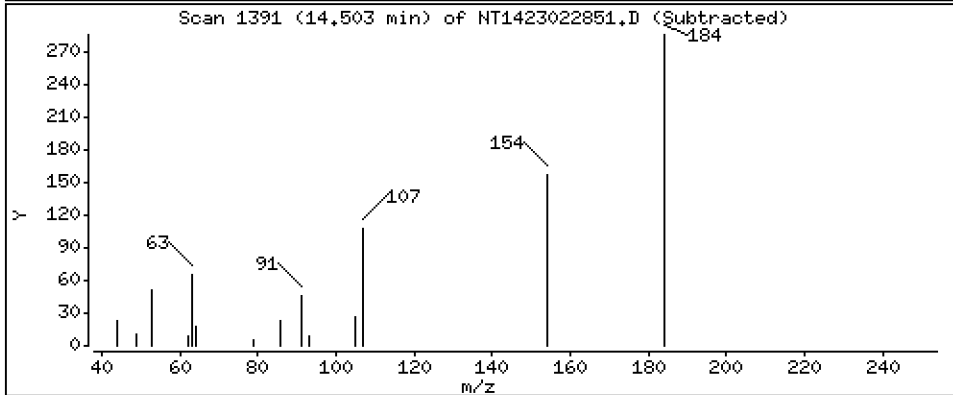
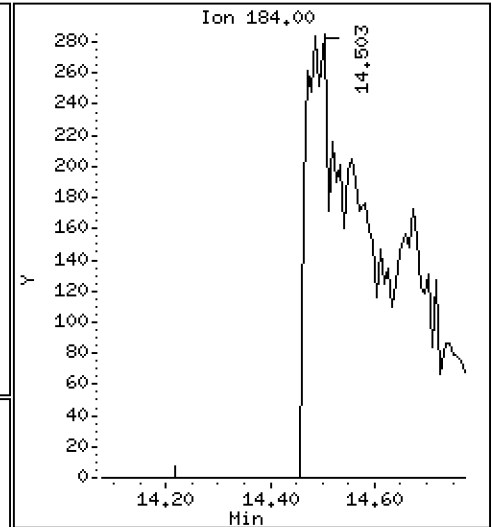
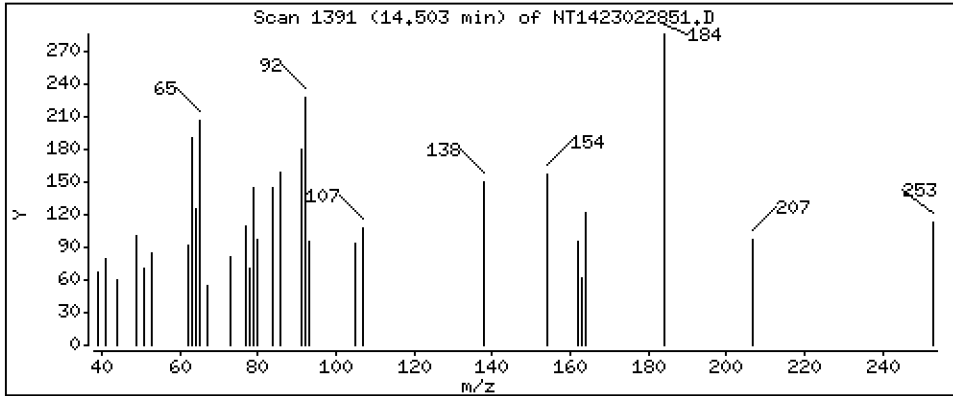
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

45 2,4-Dinitrophenol

Concentration: 0,3632 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

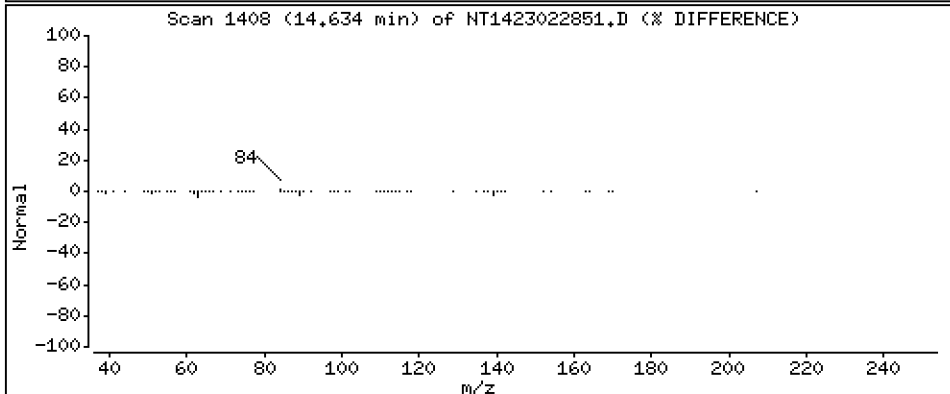
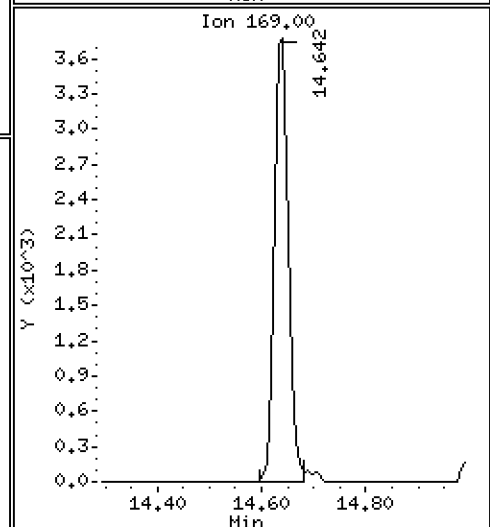
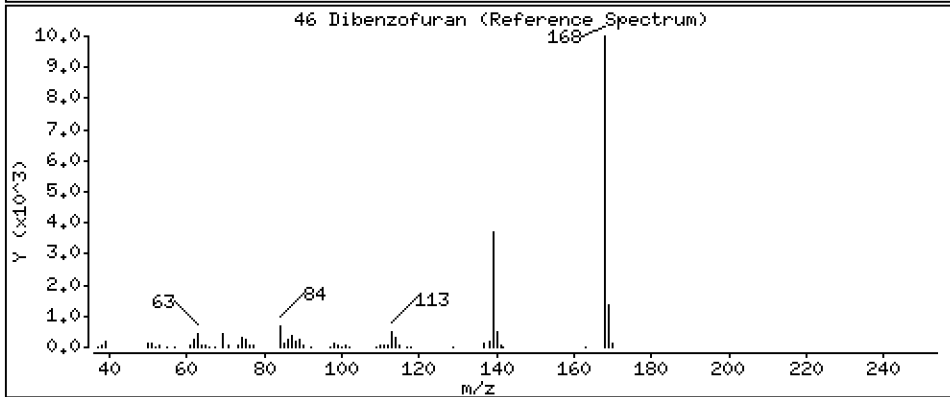
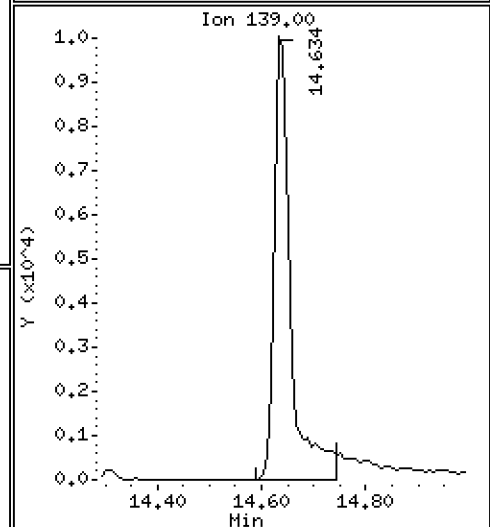
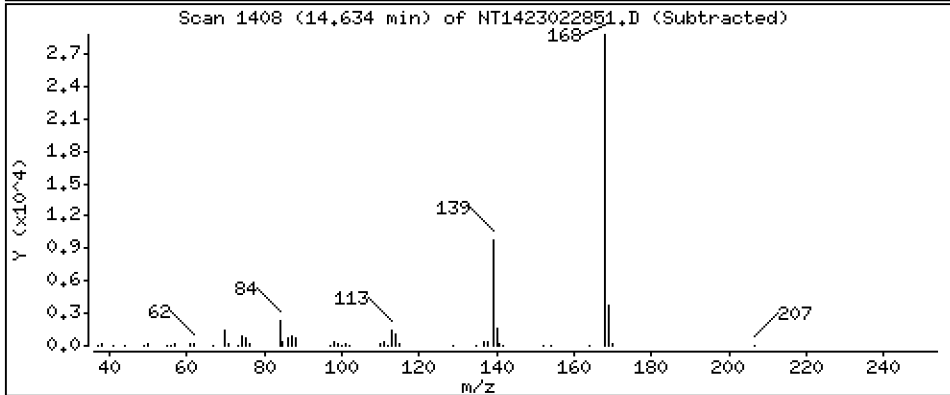
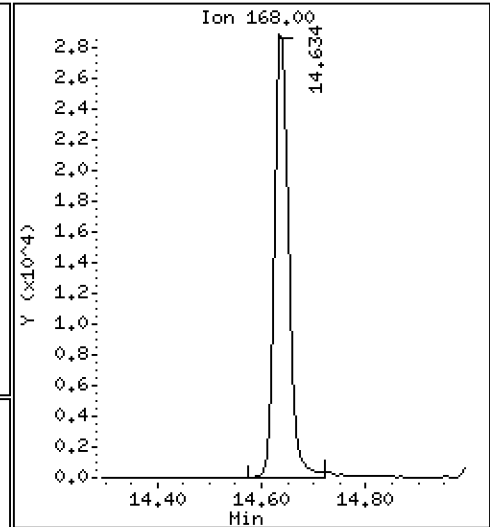
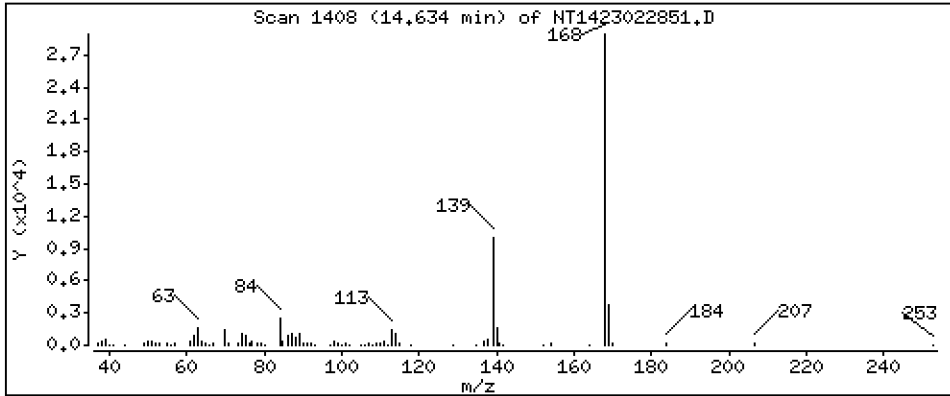
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 0,5032 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

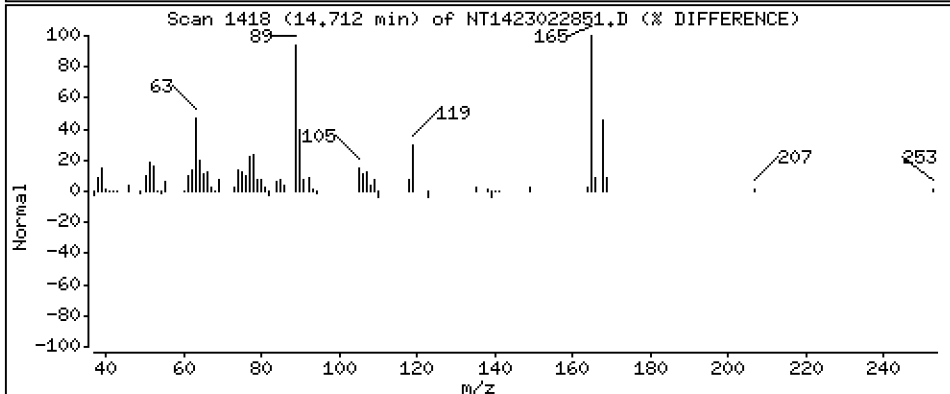
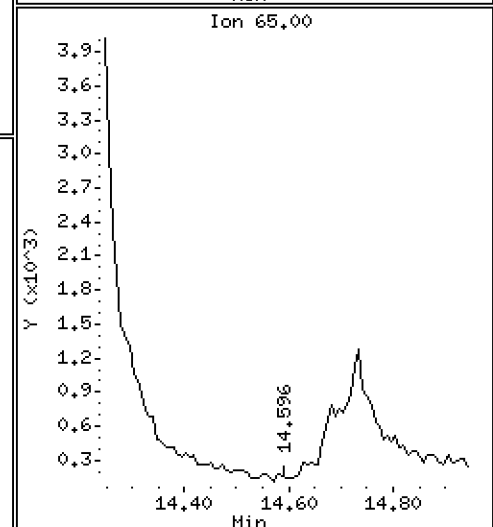
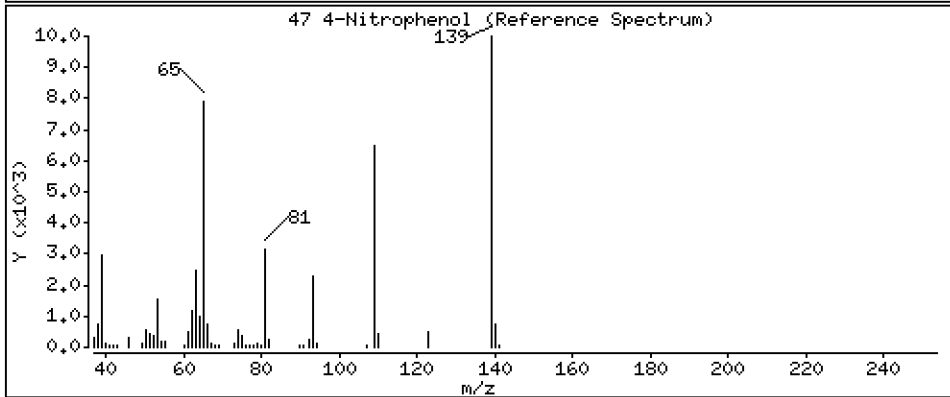
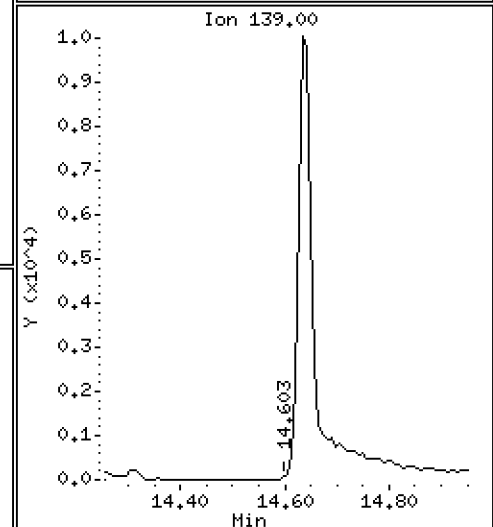
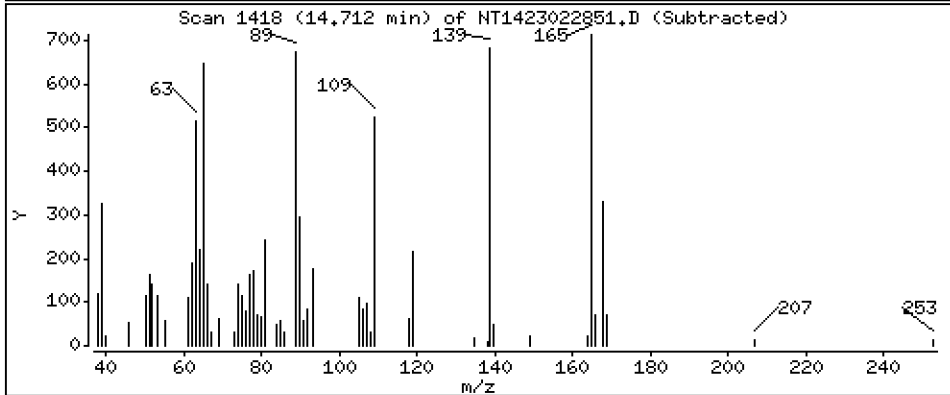
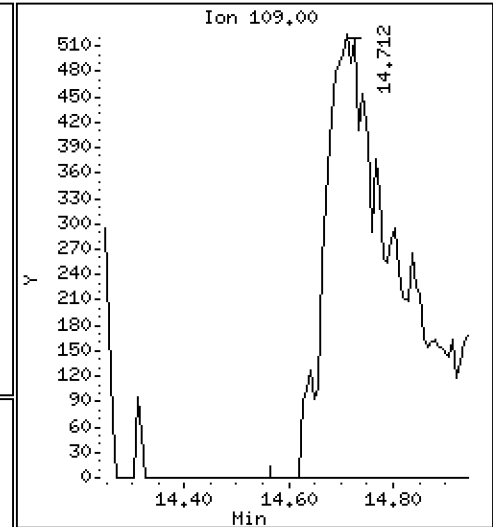
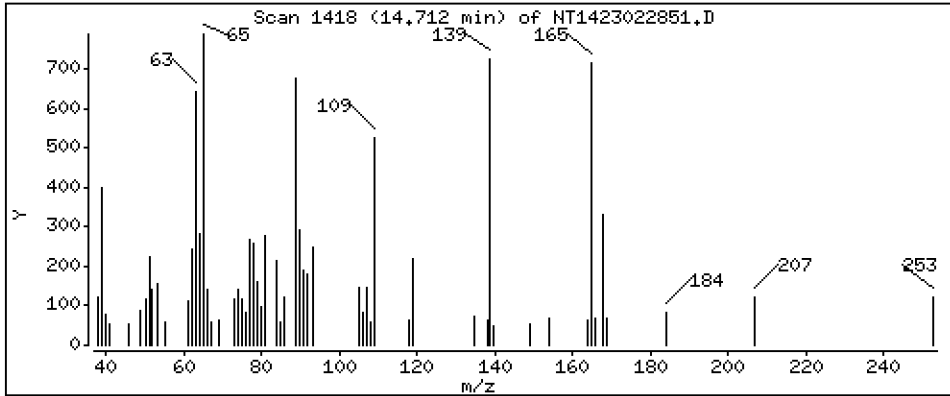
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

47 4-Nitrophenol

Concentration: 0,8288 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

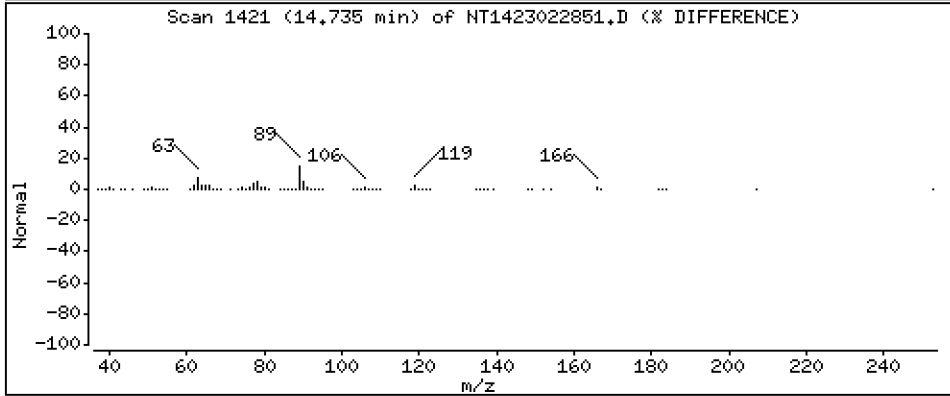
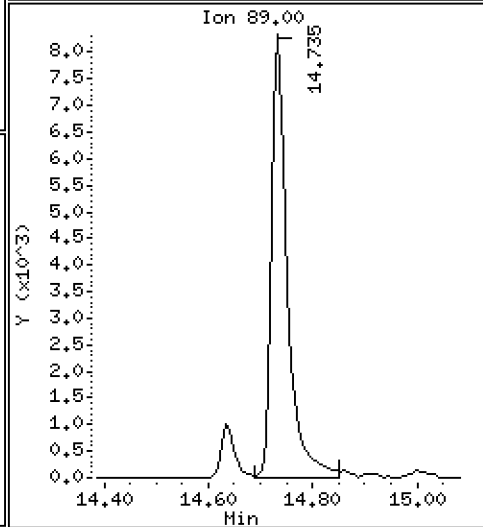
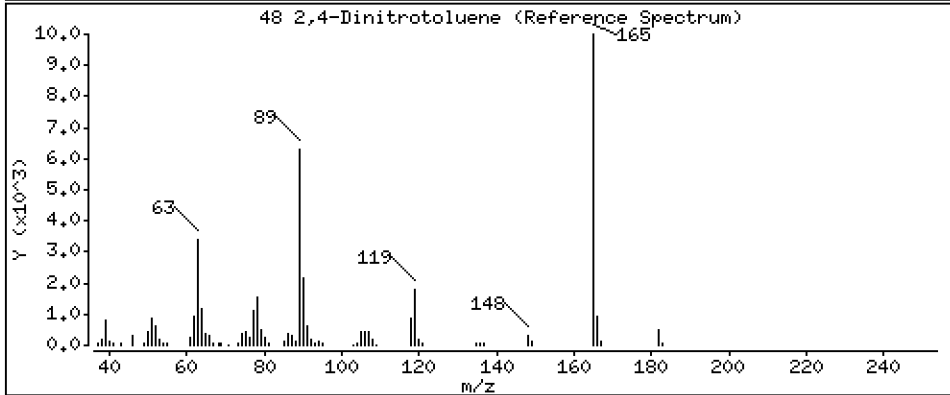
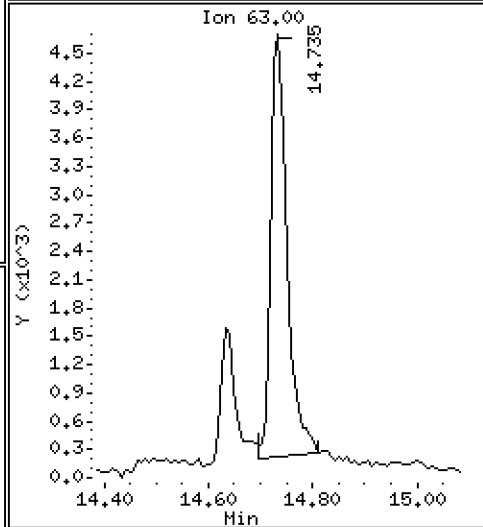
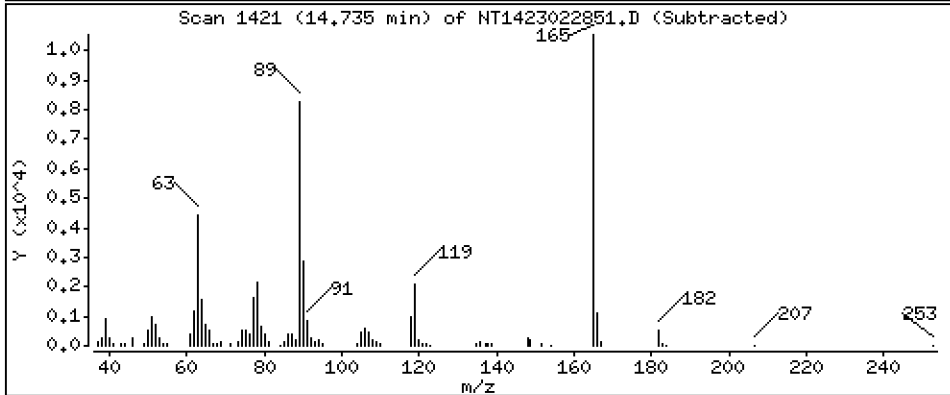
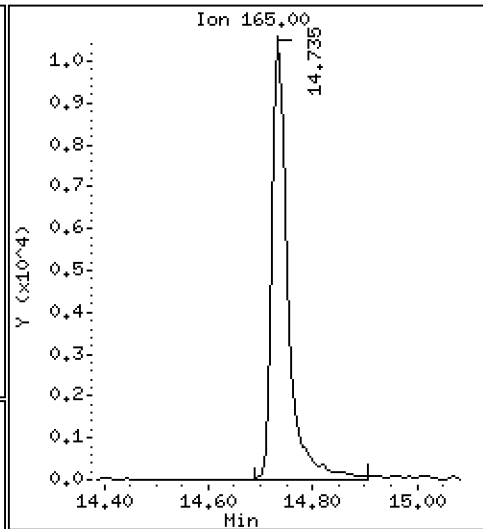
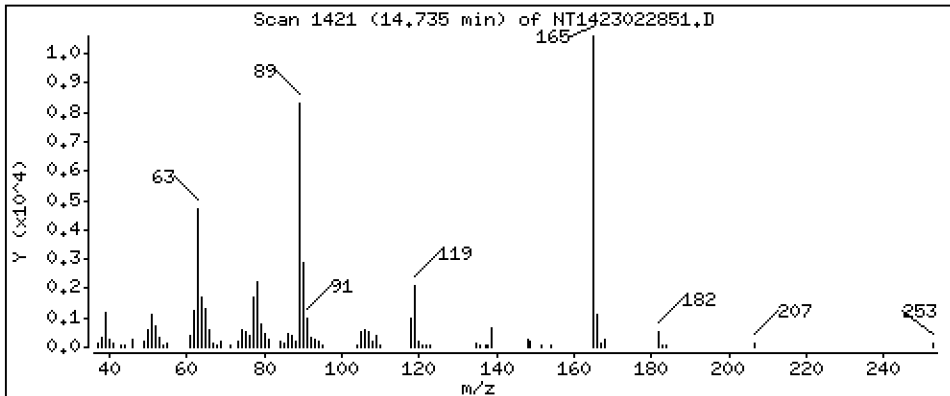
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

48 2,4-Dinitrotoluene

Concentration: 0.9033 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

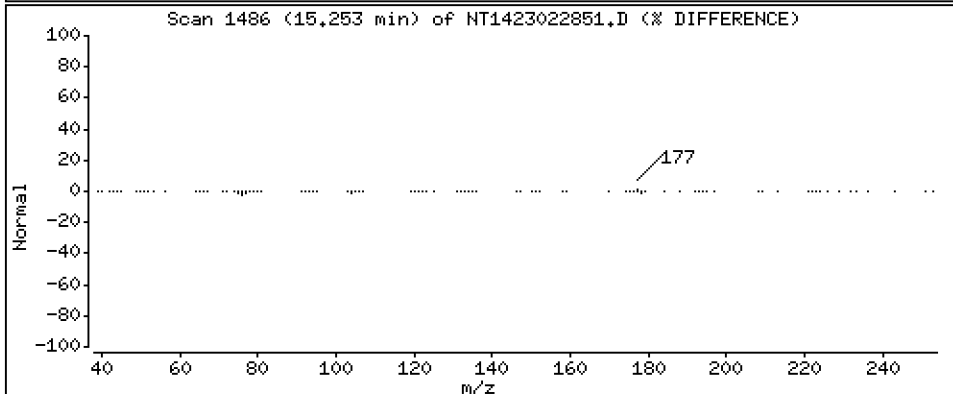
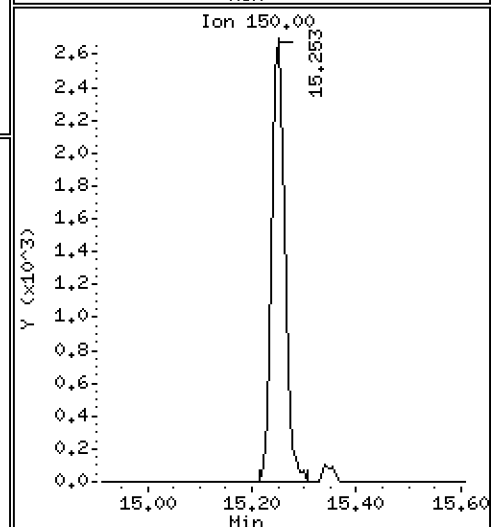
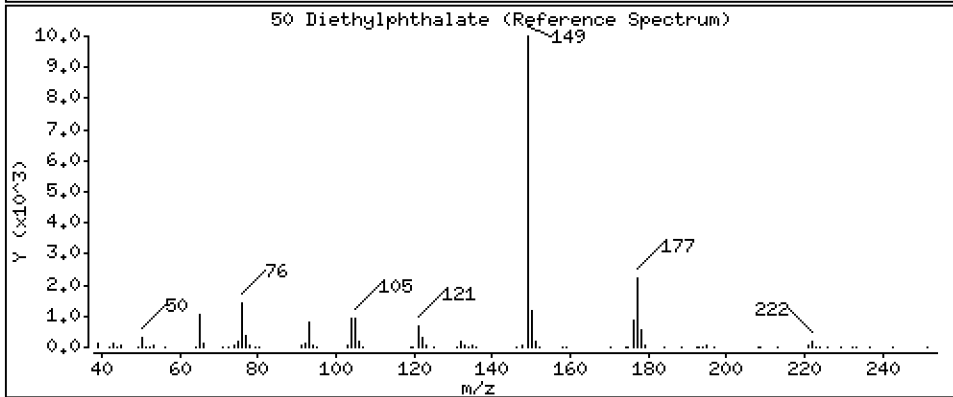
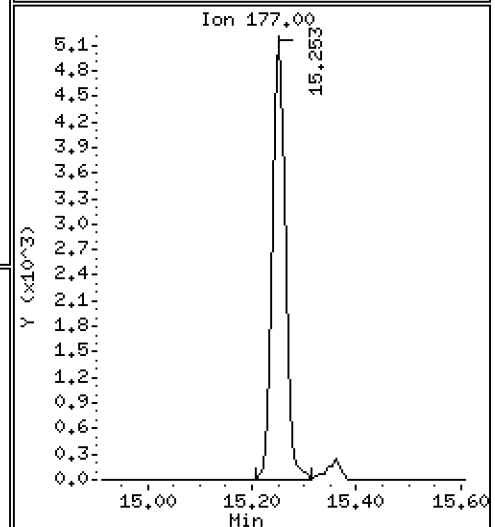
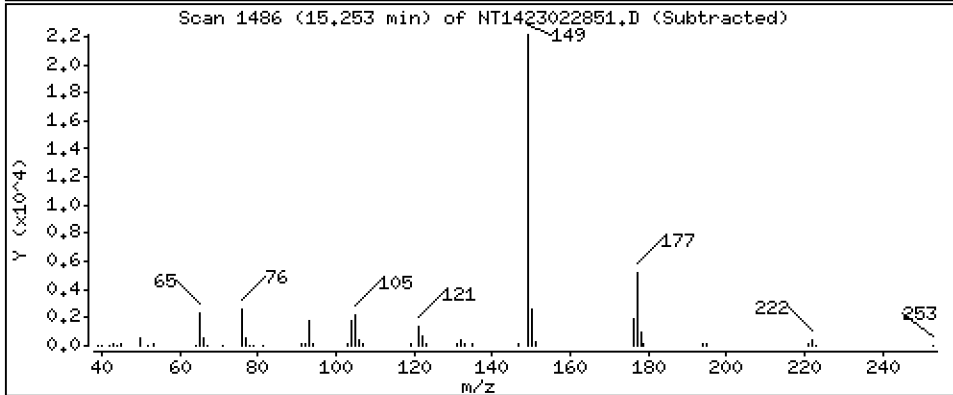
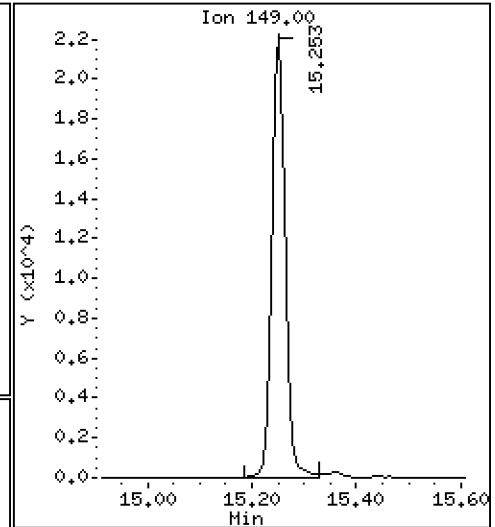
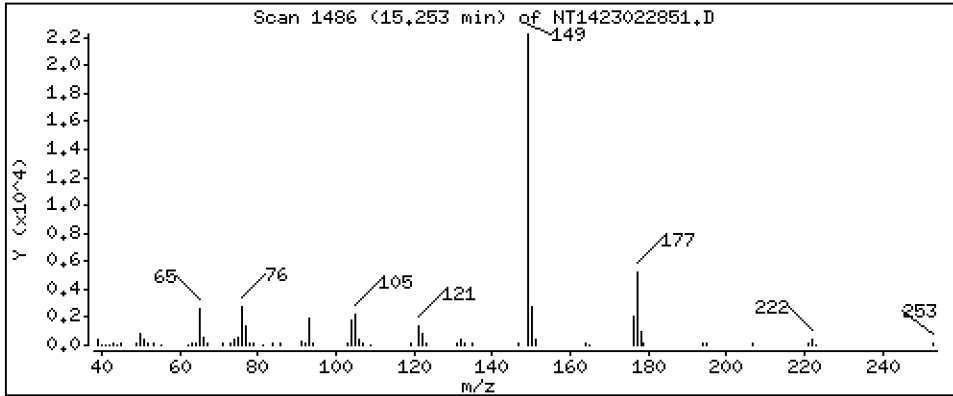
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 0,5625 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

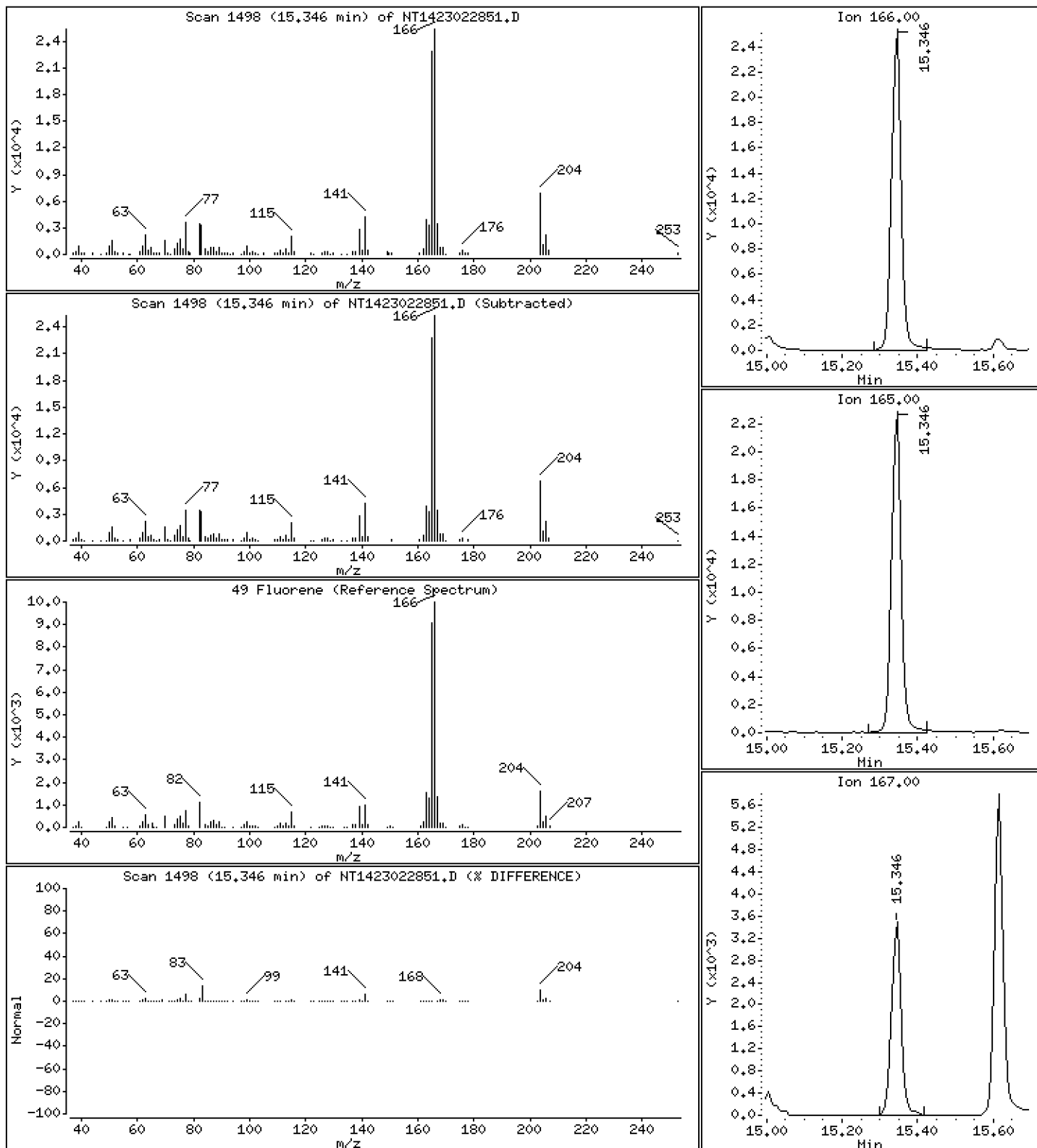
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 0,5425 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

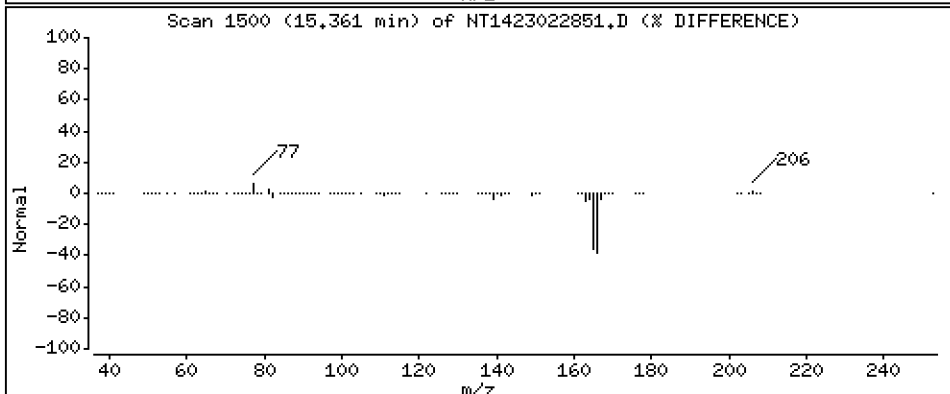
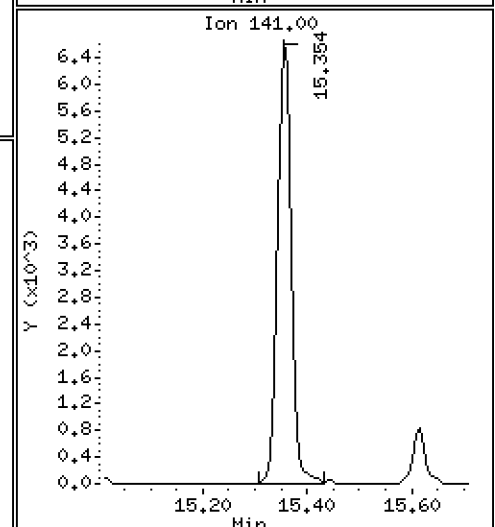
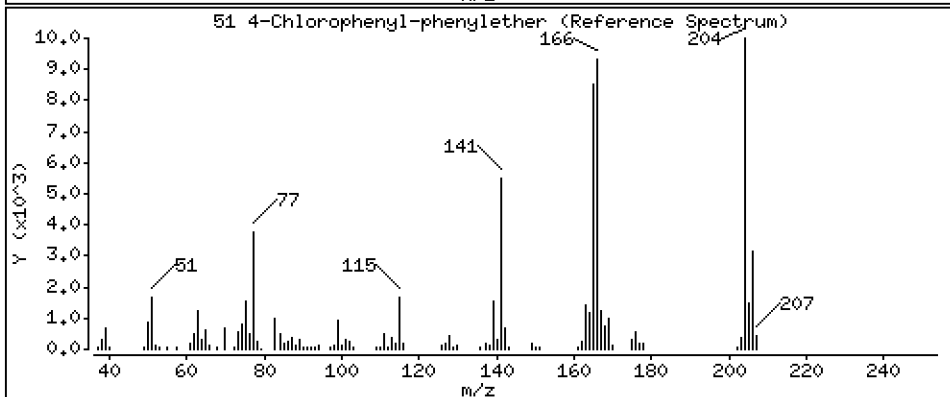
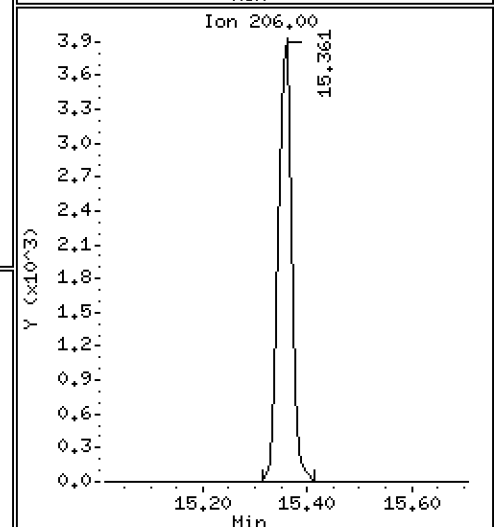
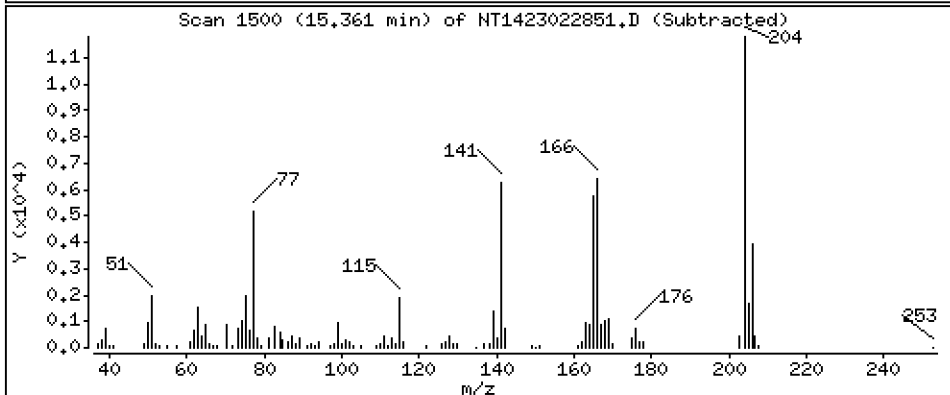
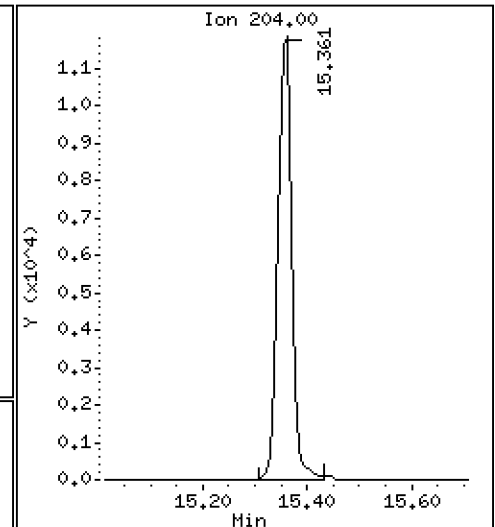
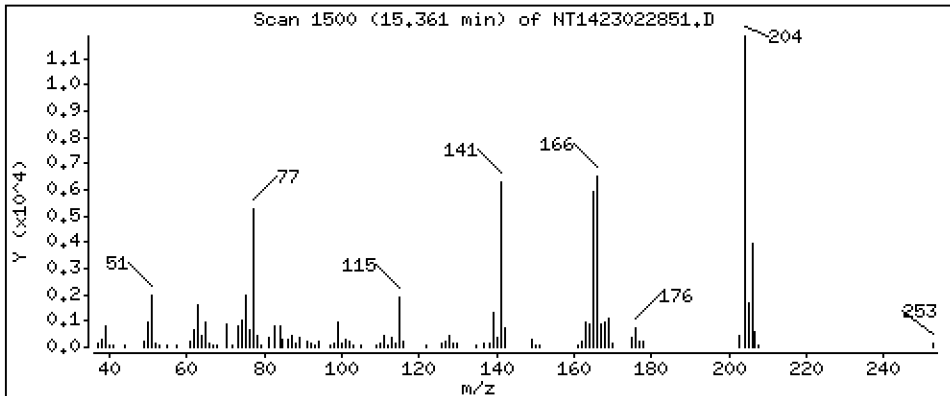
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 0,5008 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

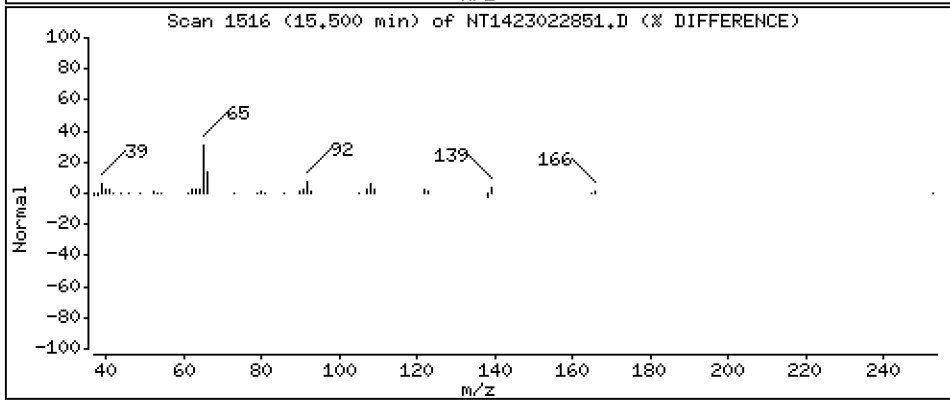
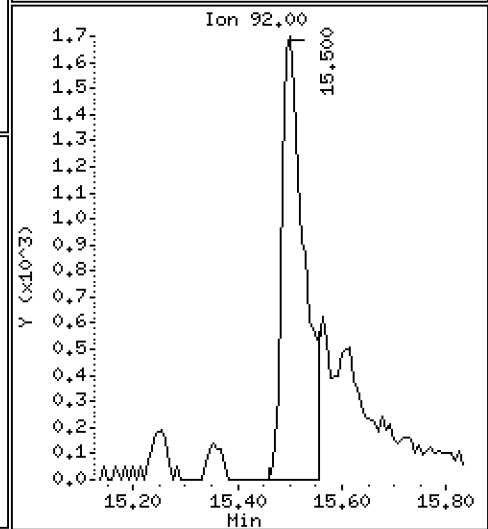
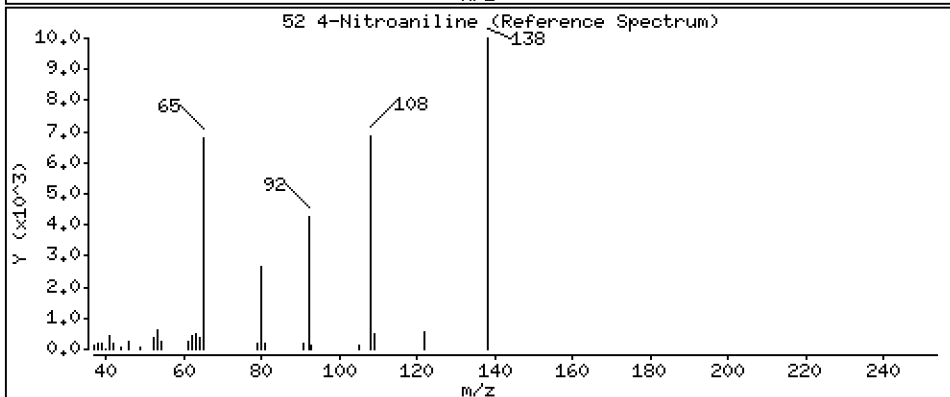
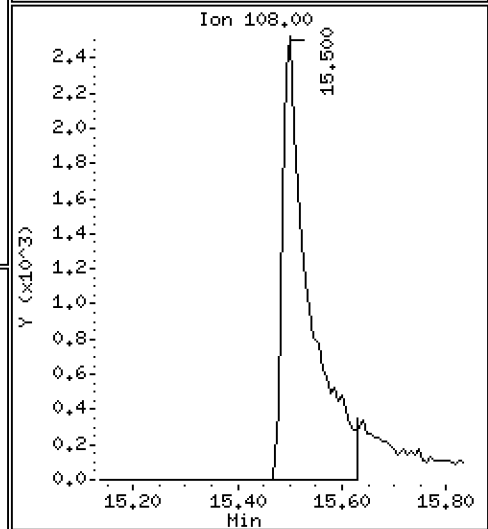
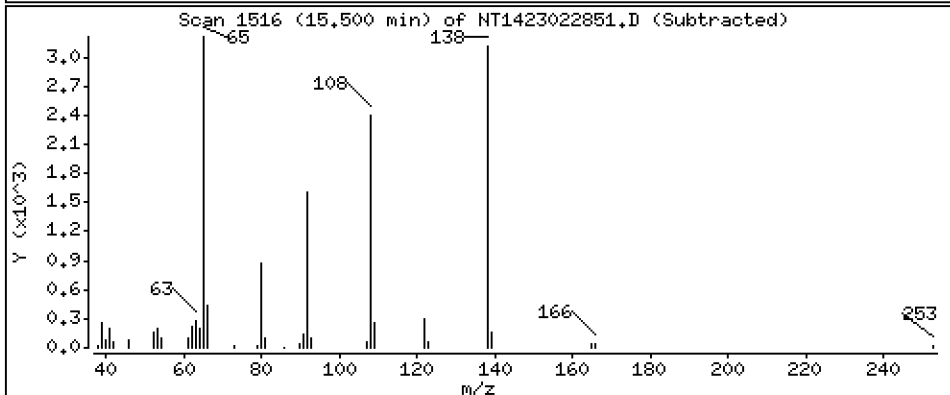
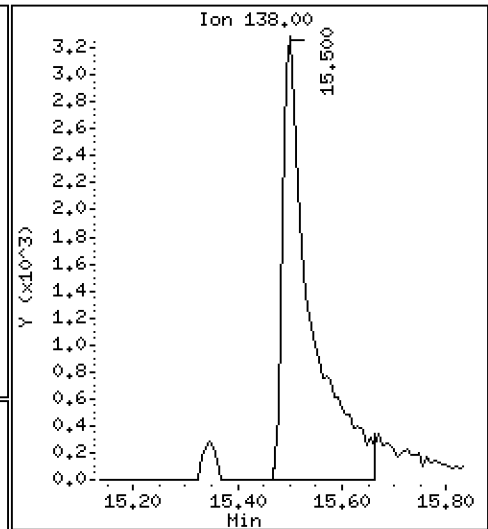
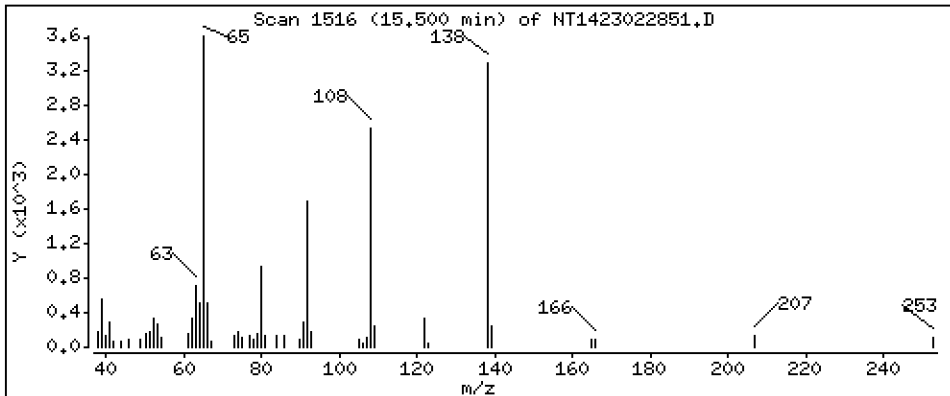
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

52 4-Nitroaniline

Concentration: 0,7373 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

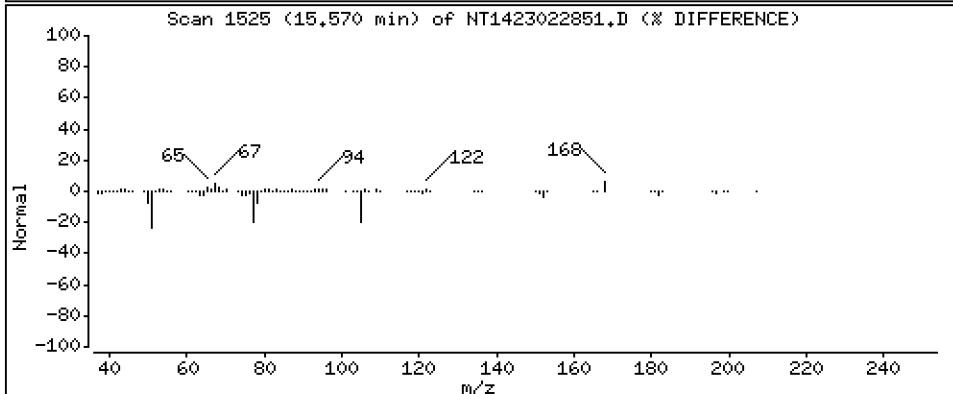
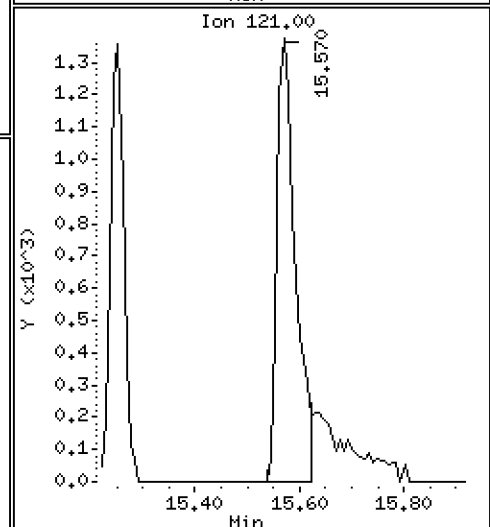
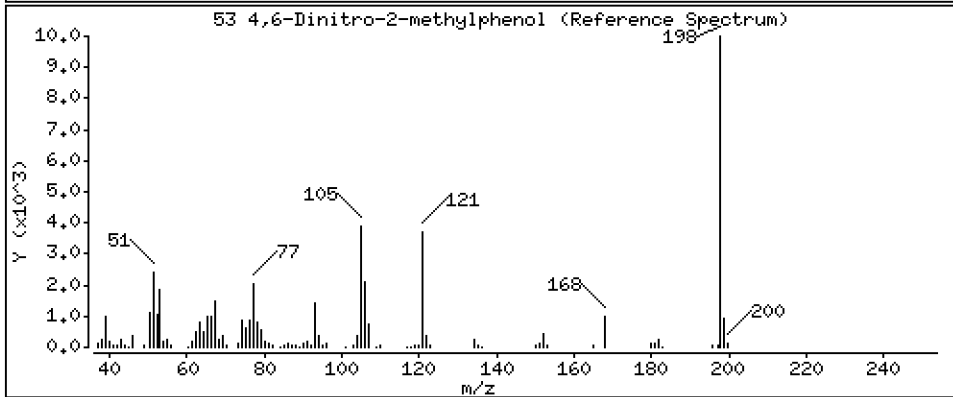
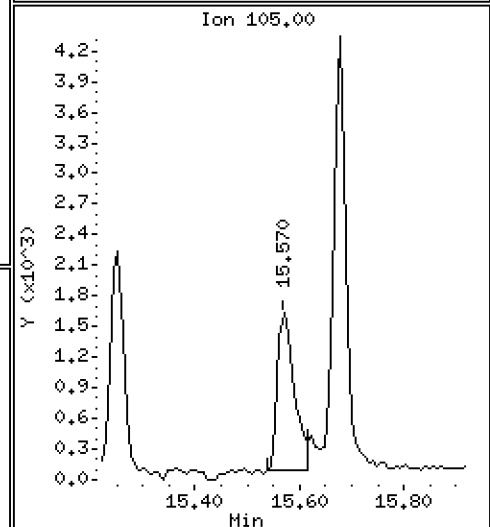
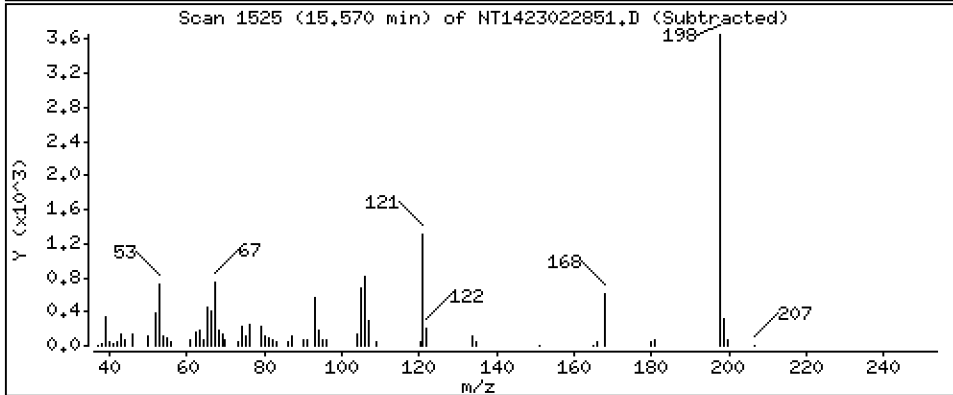
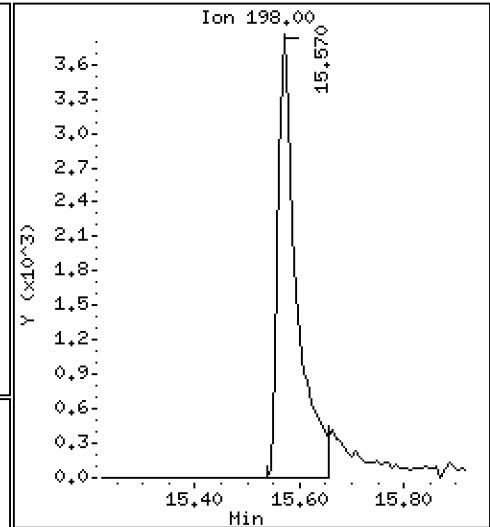
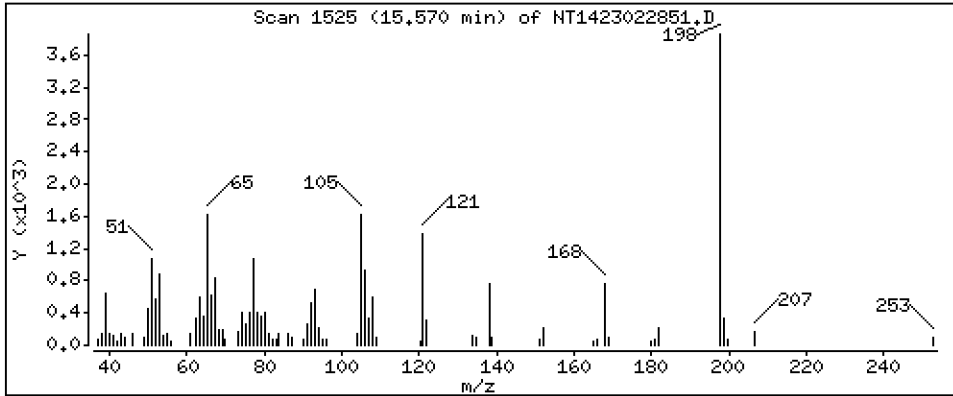
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

53 4,6-Dinitro-2-methylphenol

Concentration: 0.6805 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

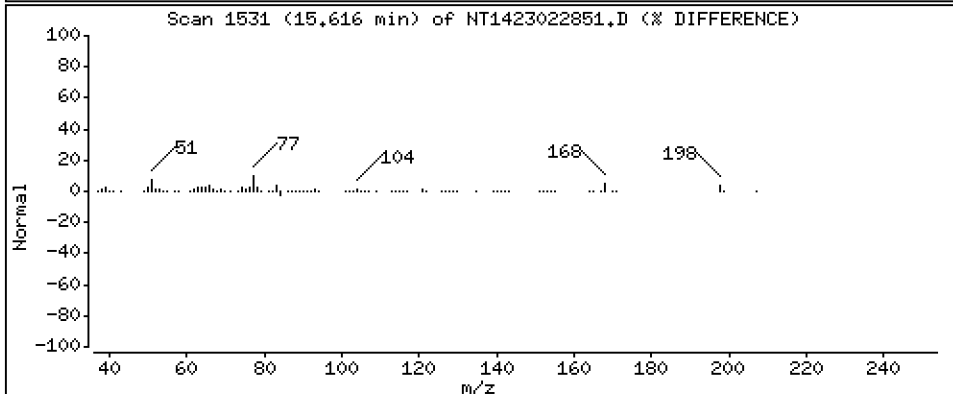
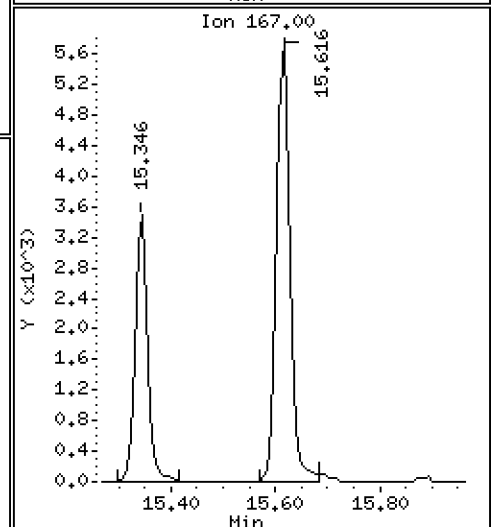
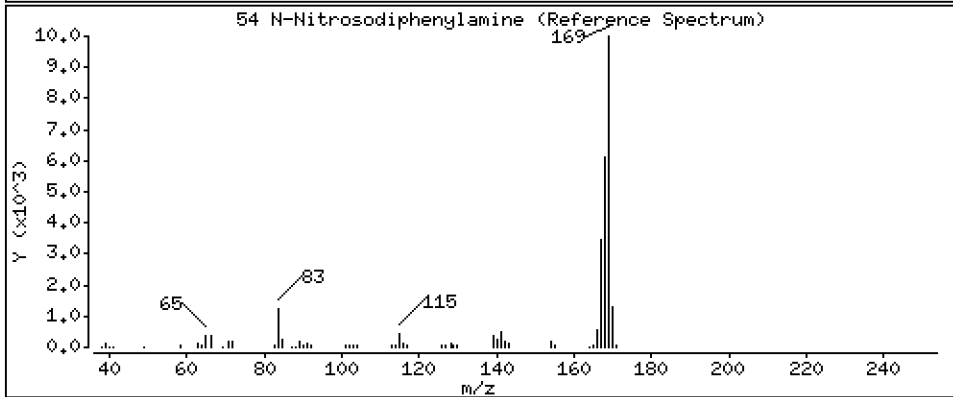
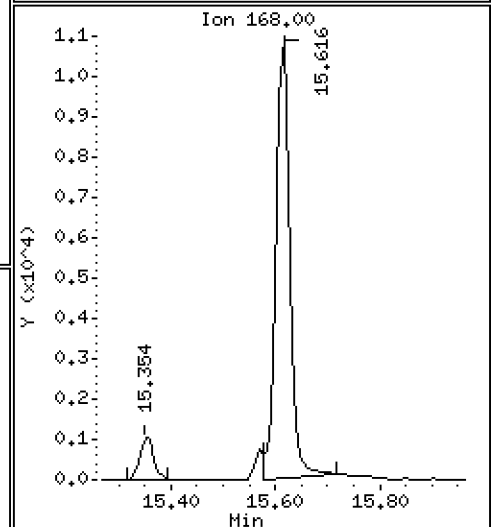
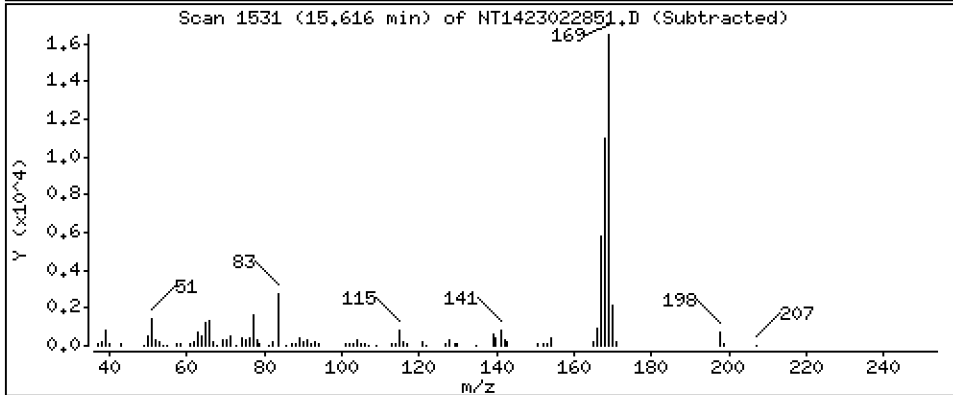
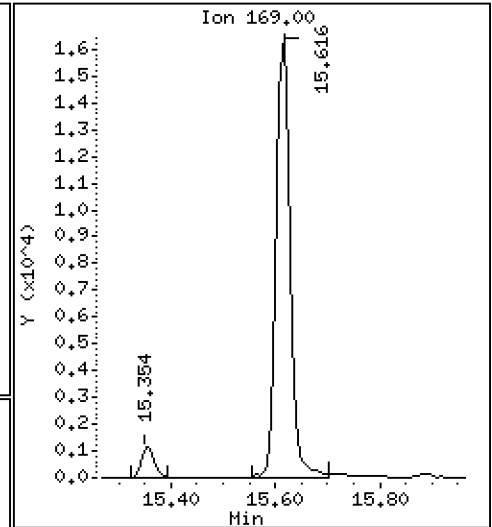
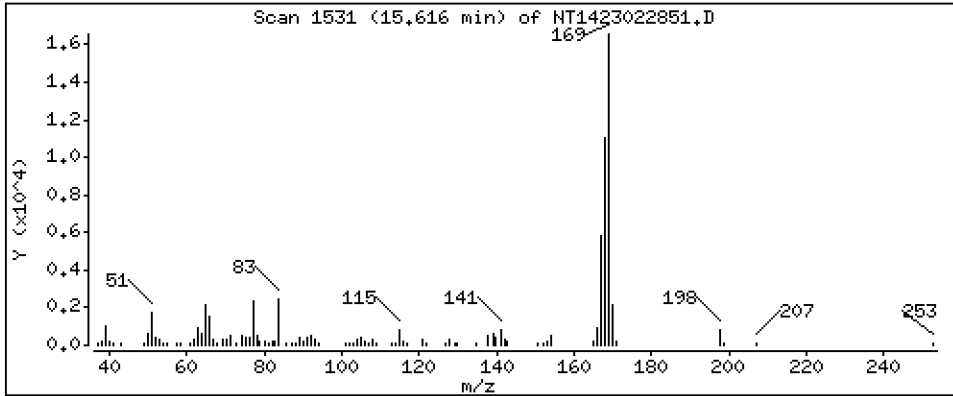
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

54 N-Nitrosodiphenylamine

Concentration: 0,5667 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

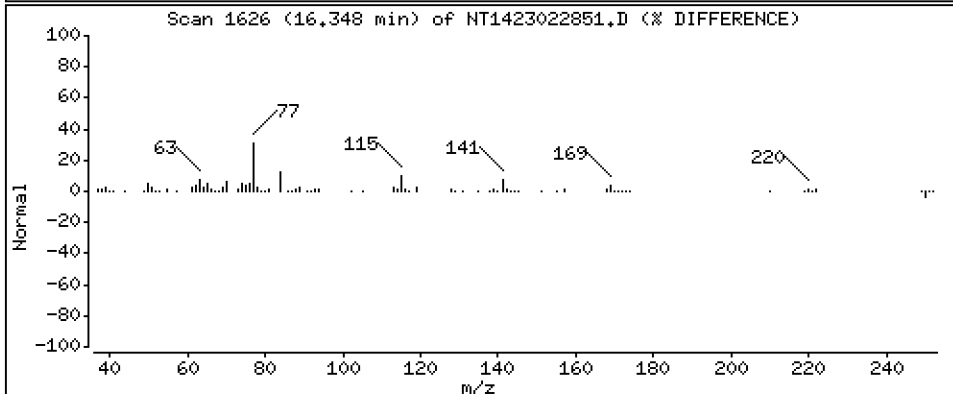
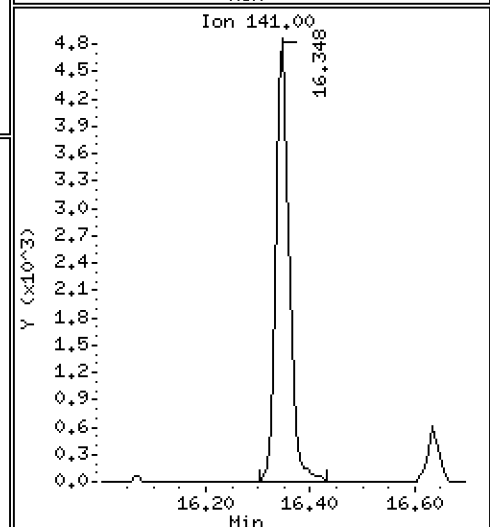
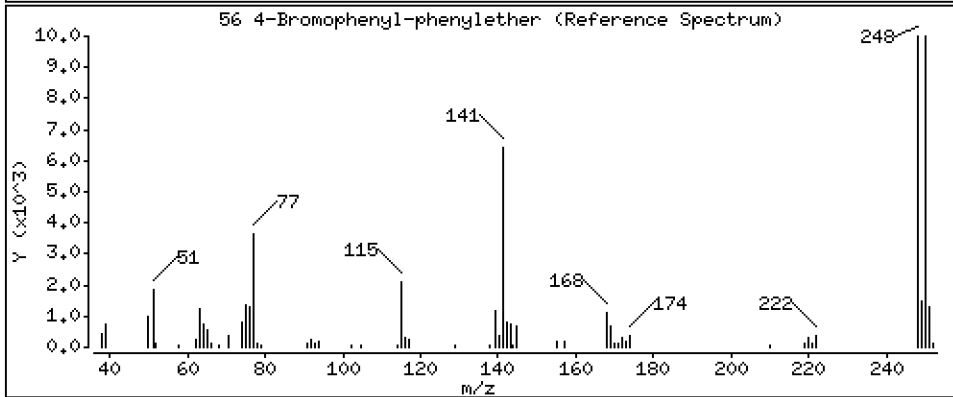
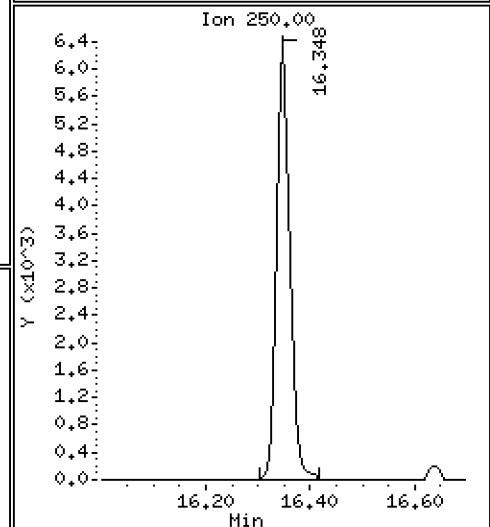
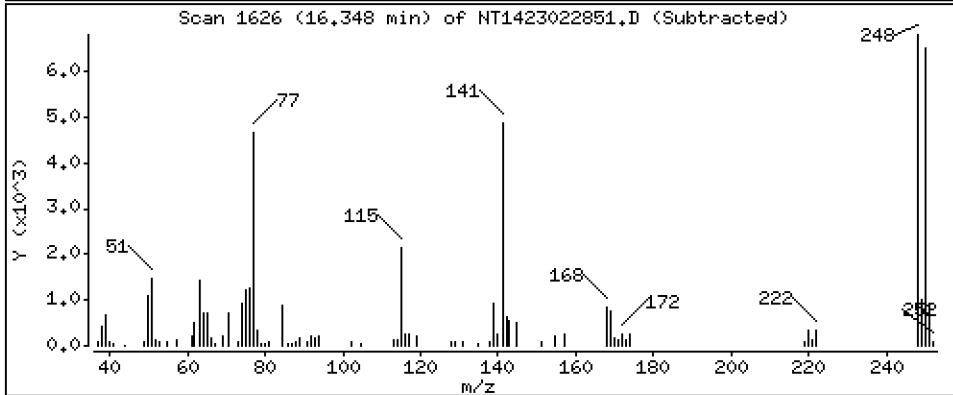
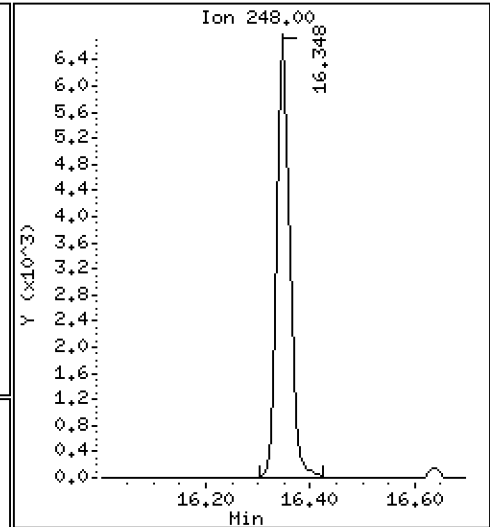
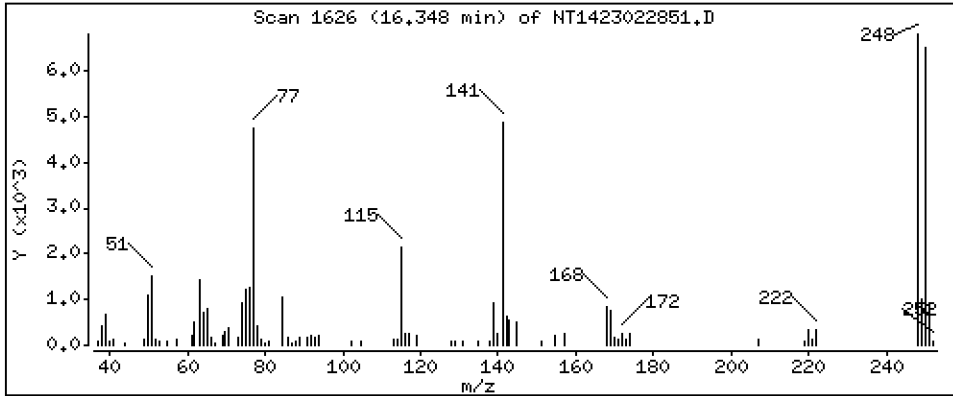
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

56 4-Bromophenyl-phenylether

Concentration: 0.5058 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

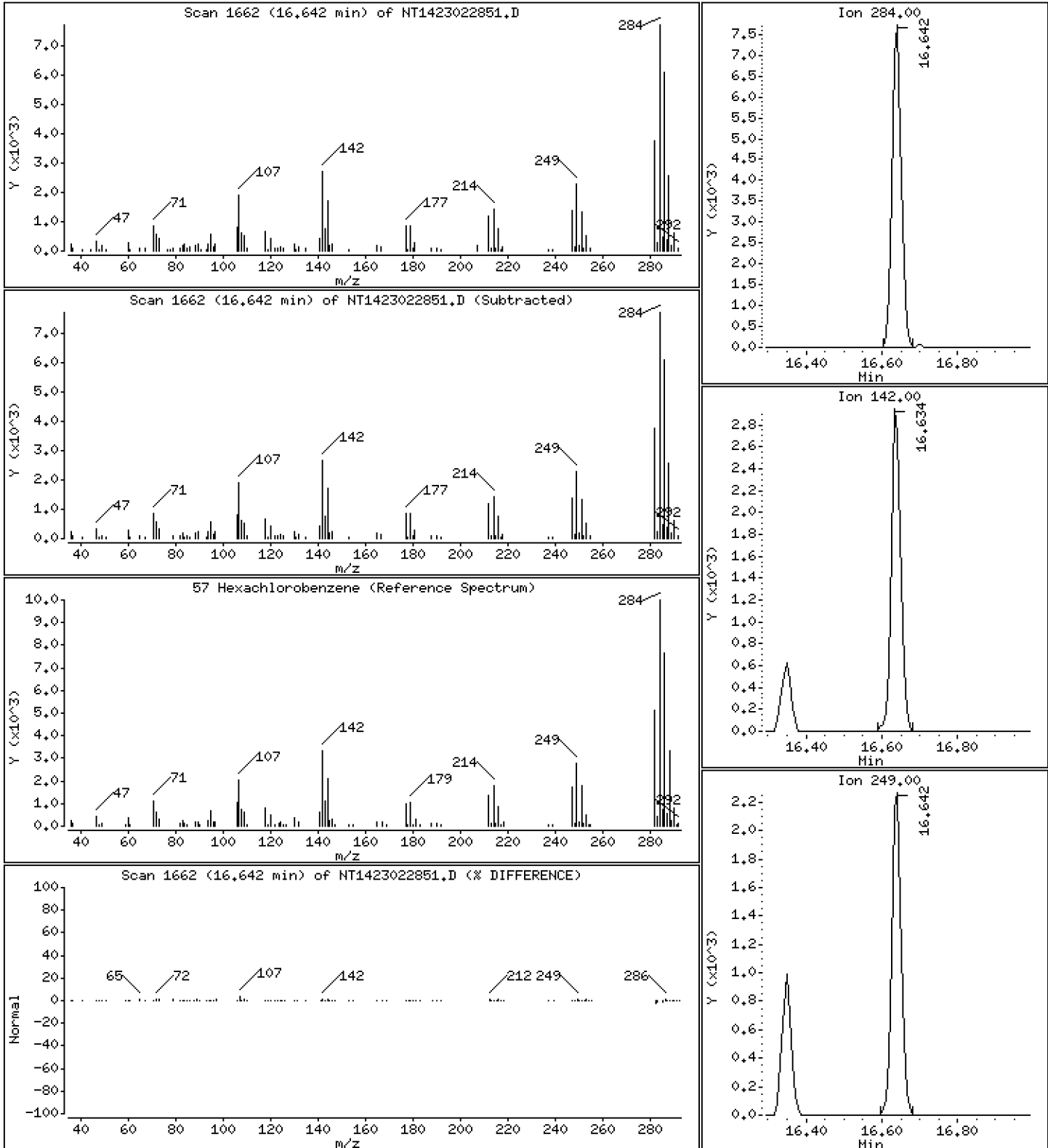
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

57 Hexachlorobenzene

Concentration: 0,5168 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

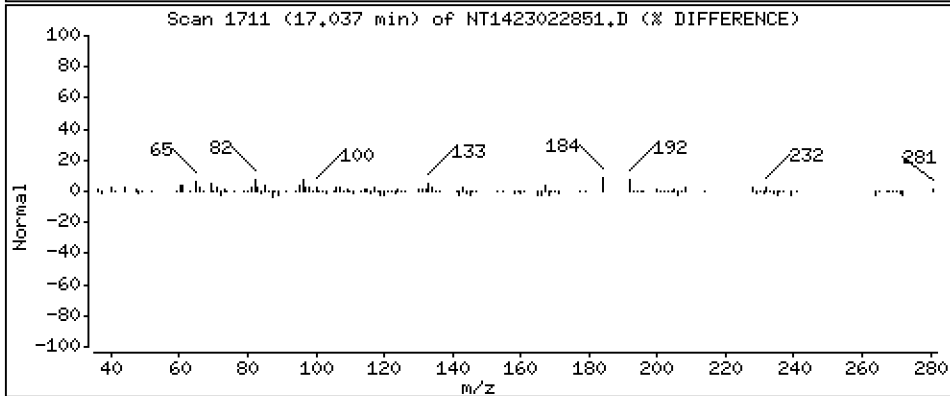
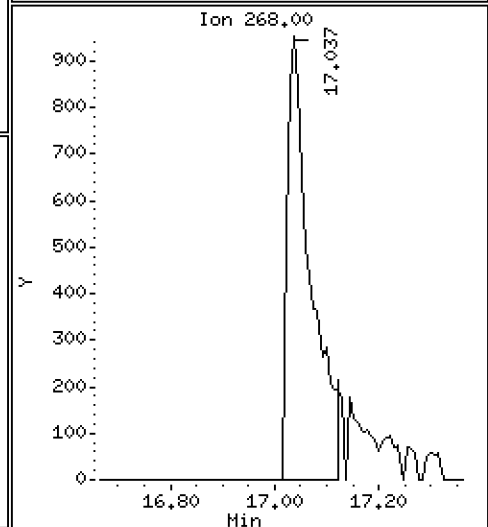
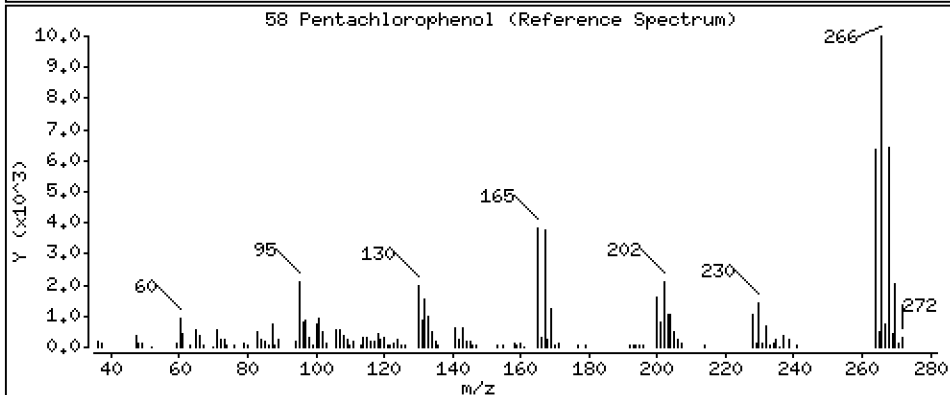
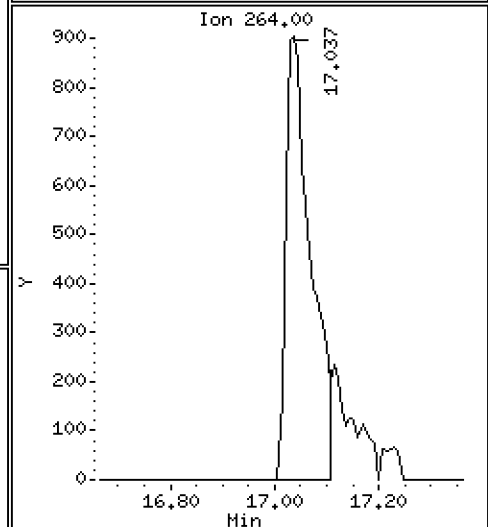
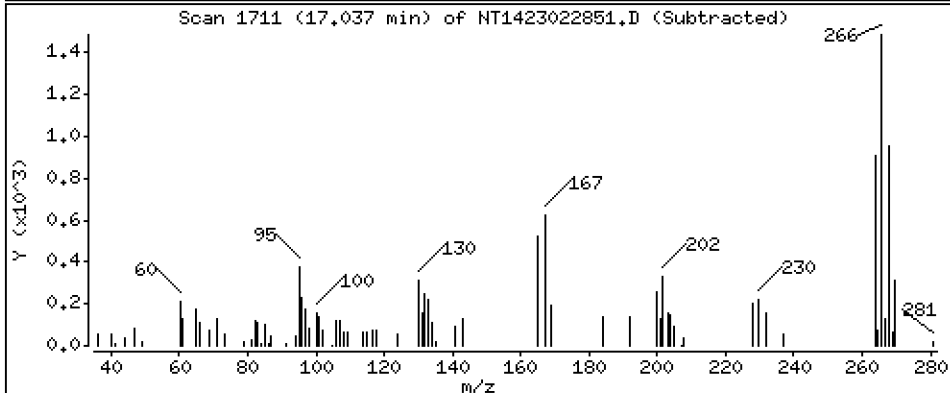
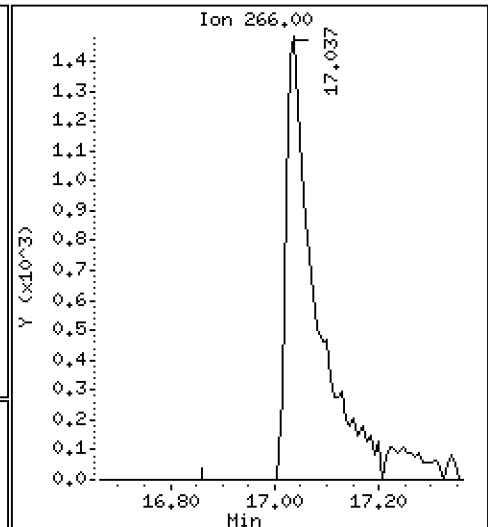
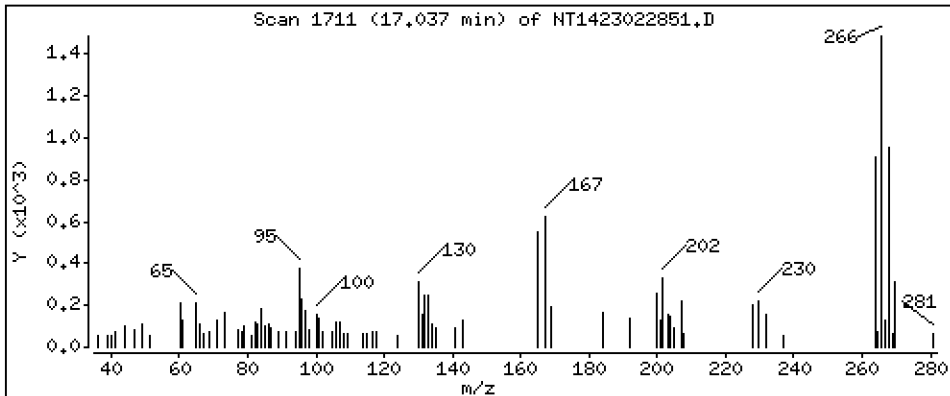
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 0,5527 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

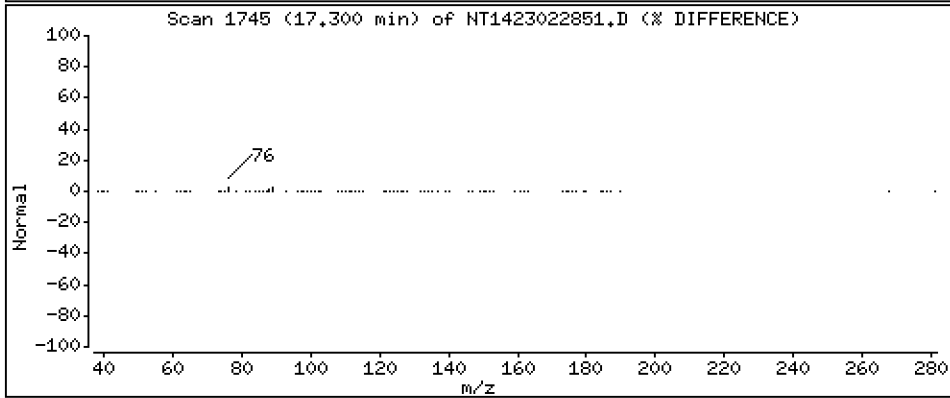
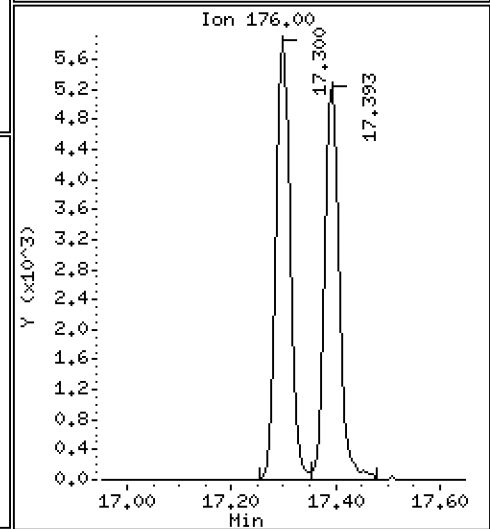
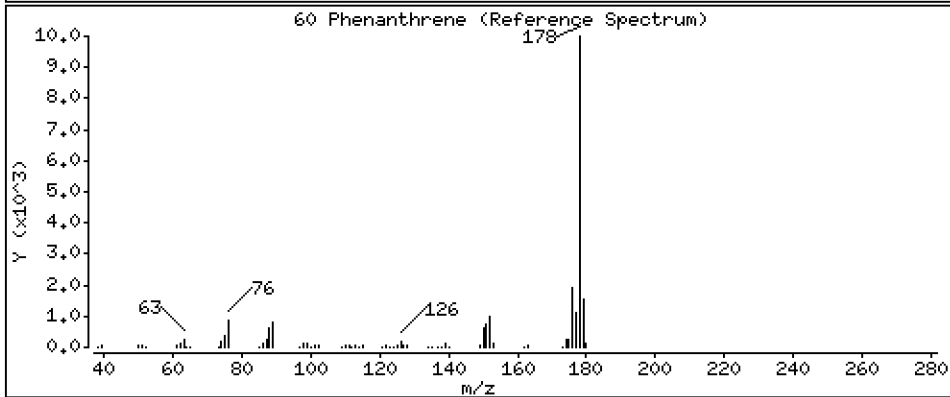
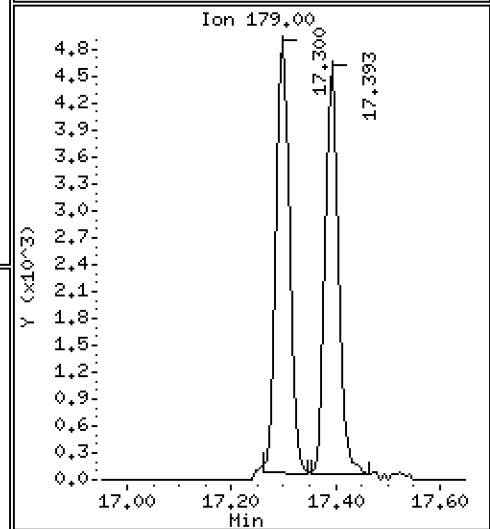
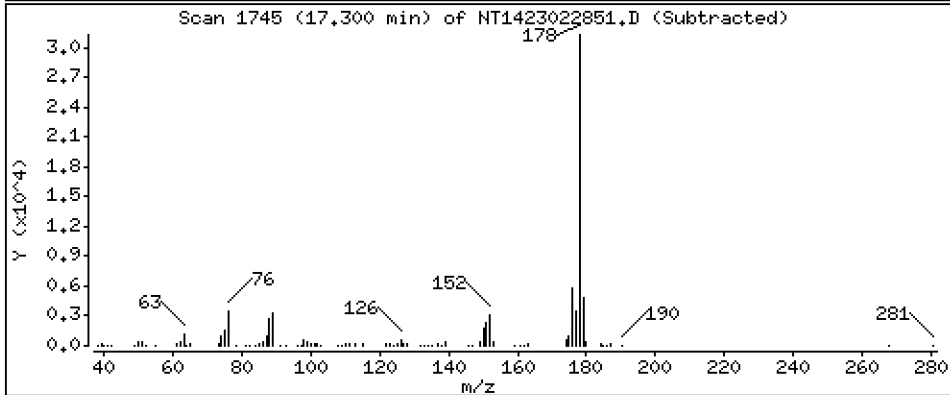
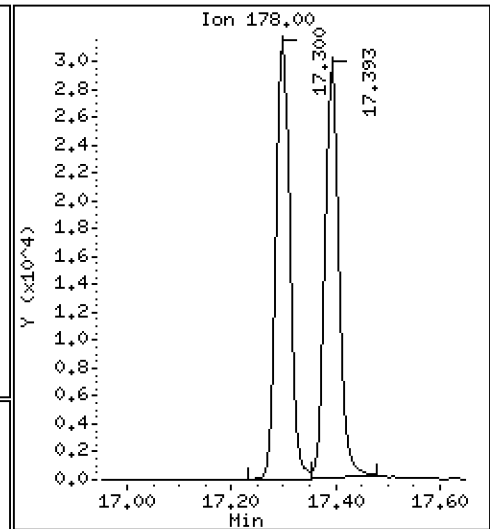
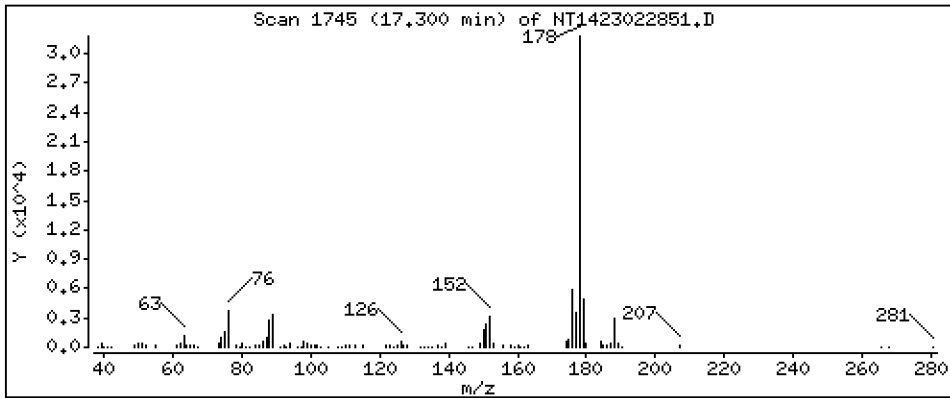
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 0,5174 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

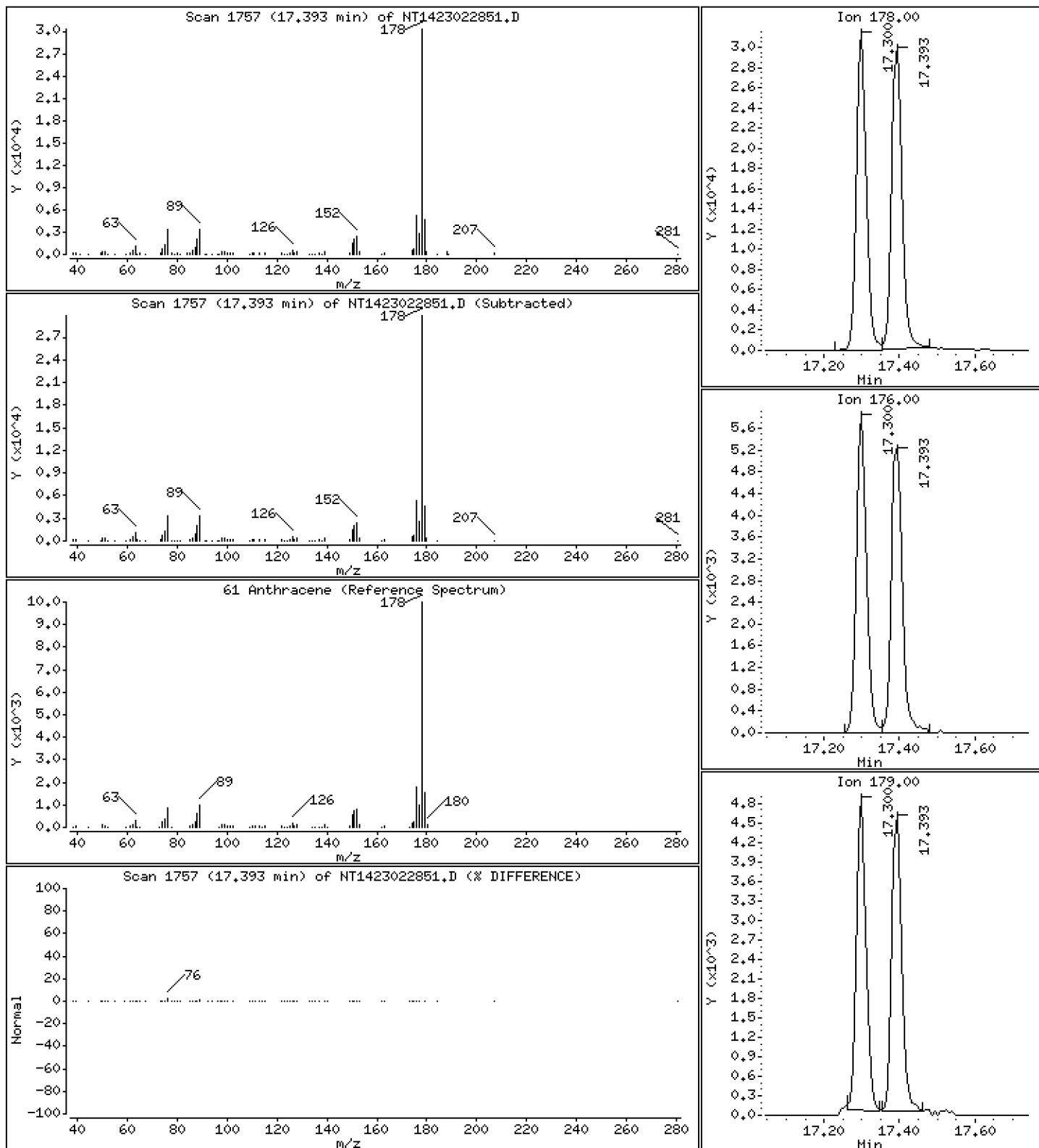
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 0,5267 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

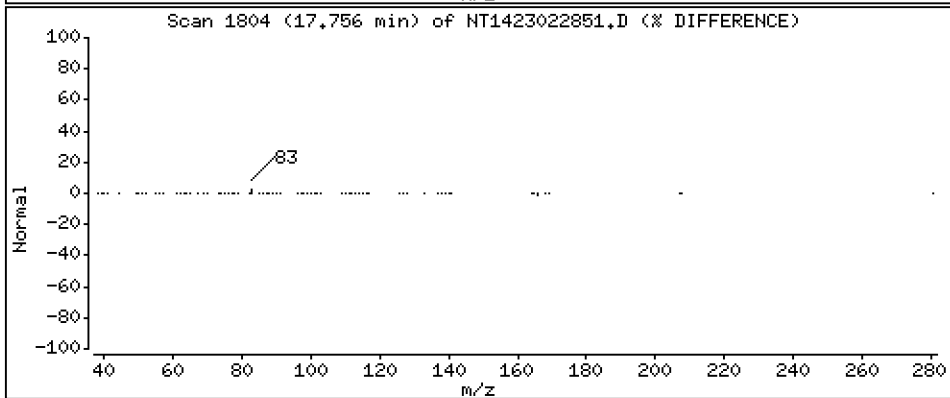
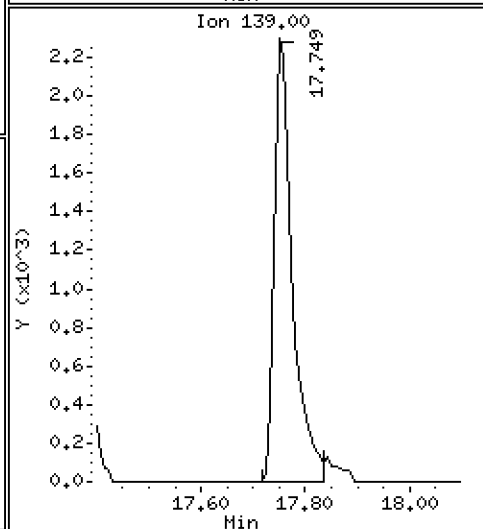
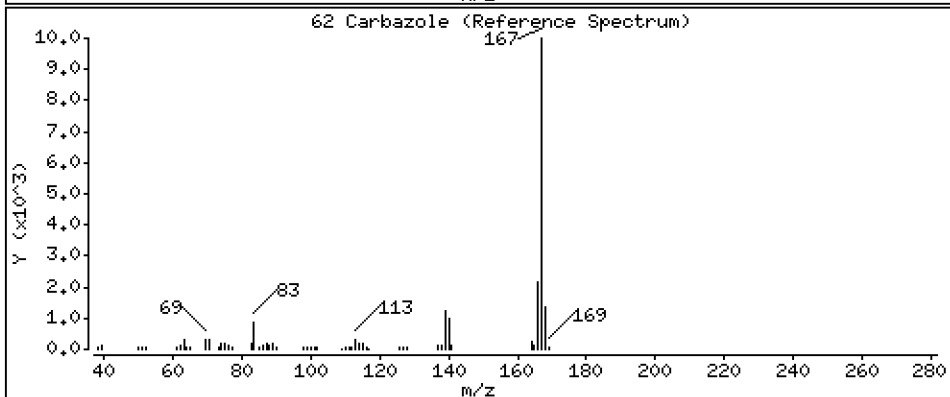
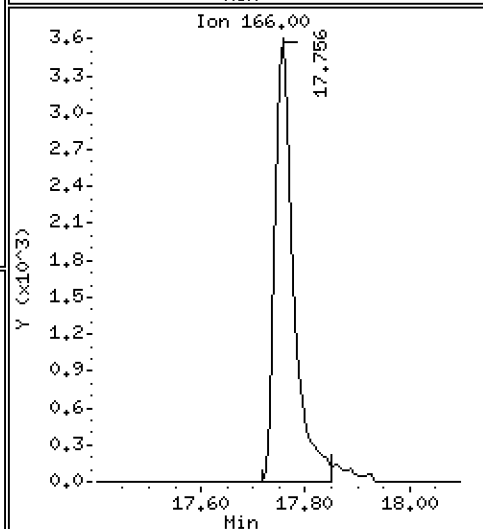
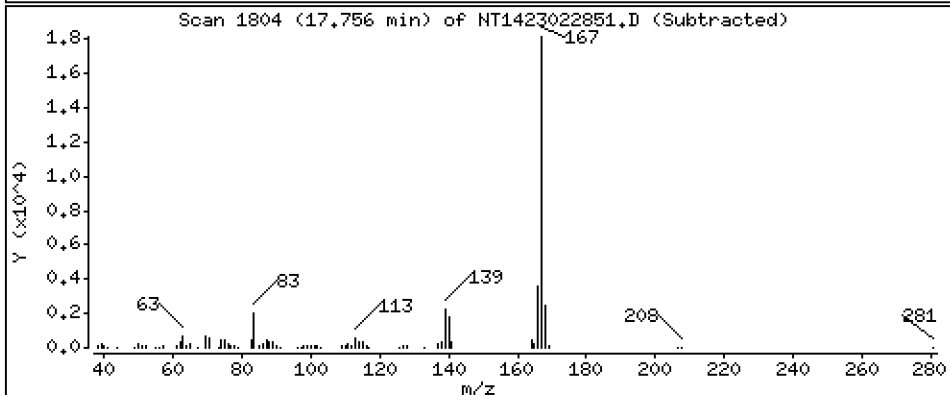
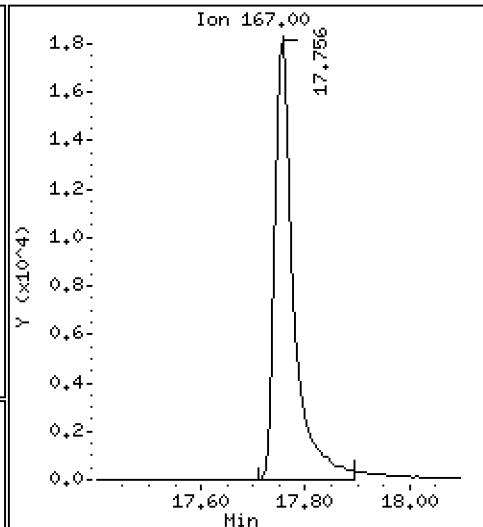
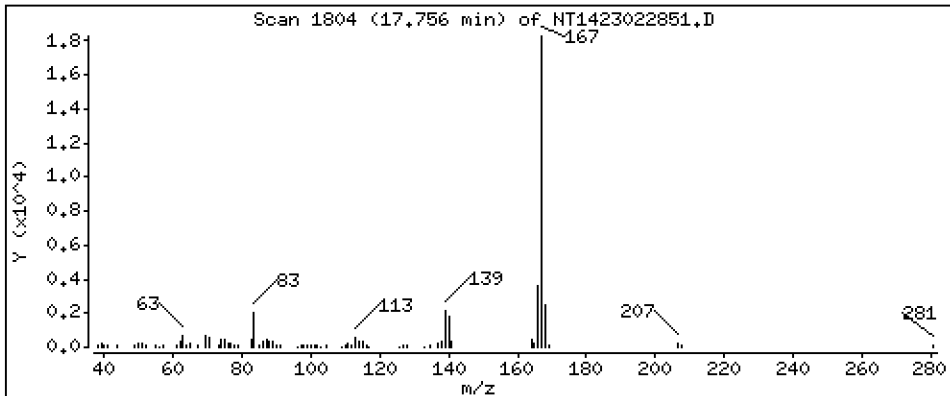
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 0,5008 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

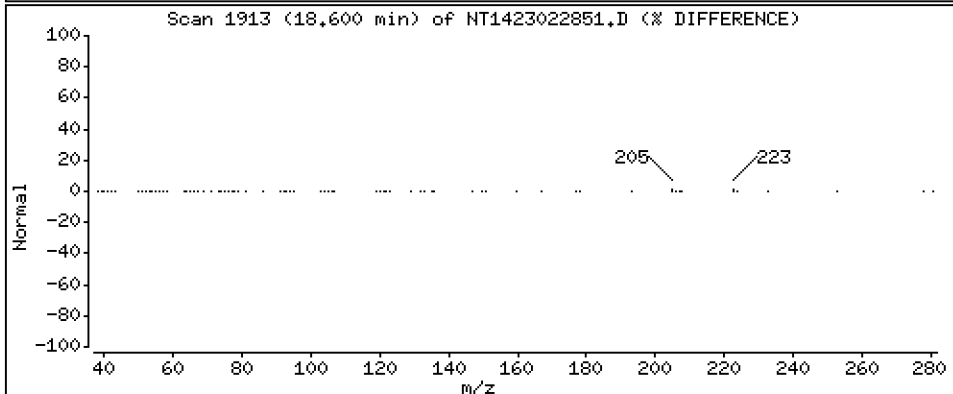
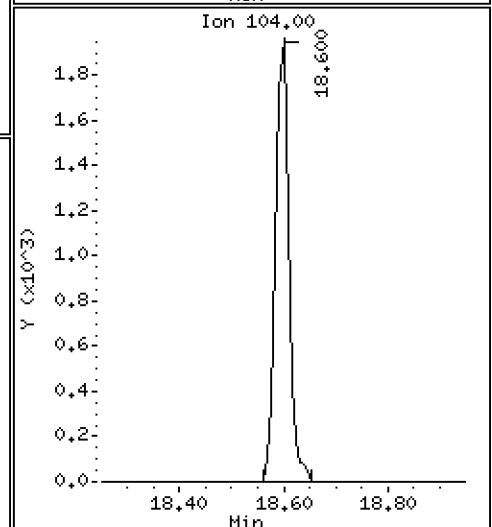
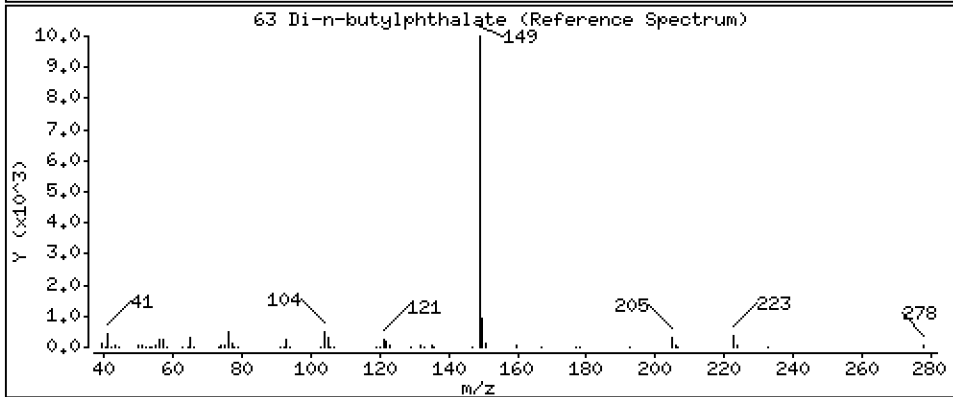
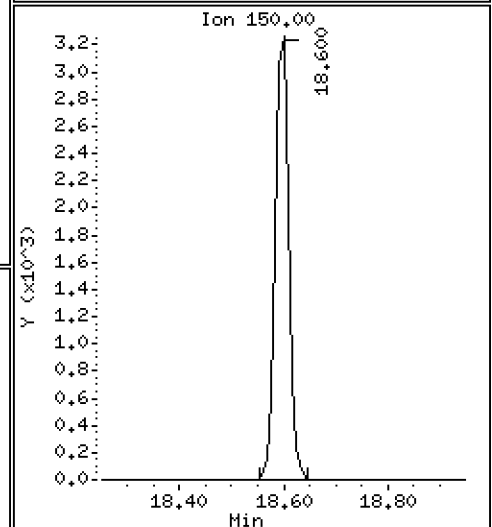
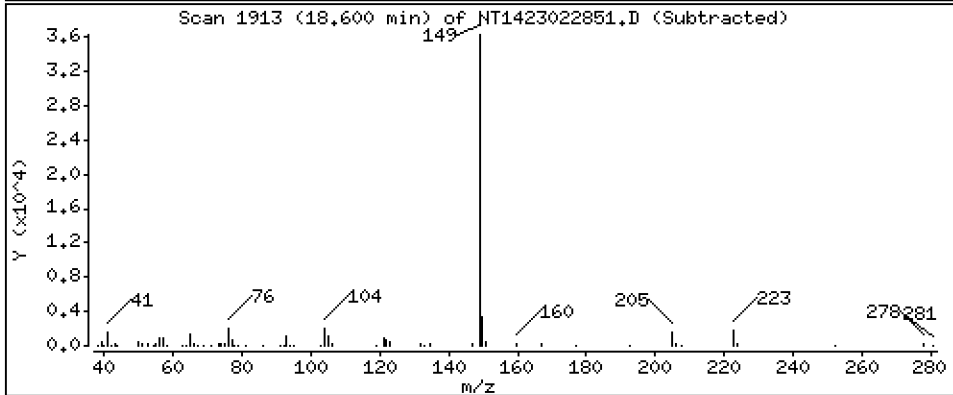
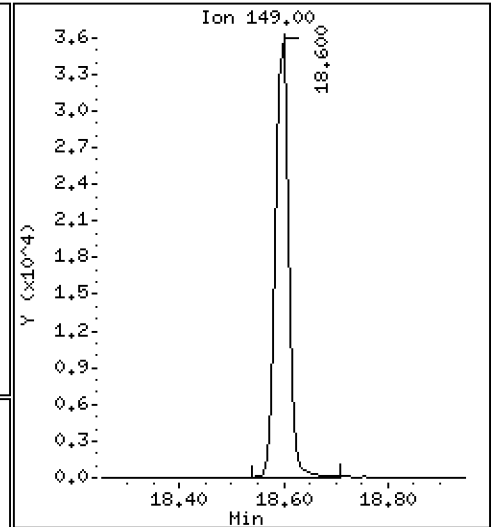
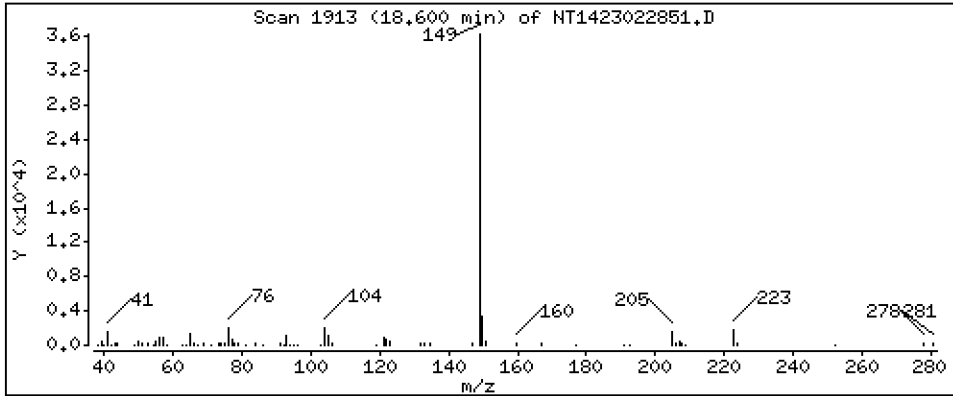
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 0,5148 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

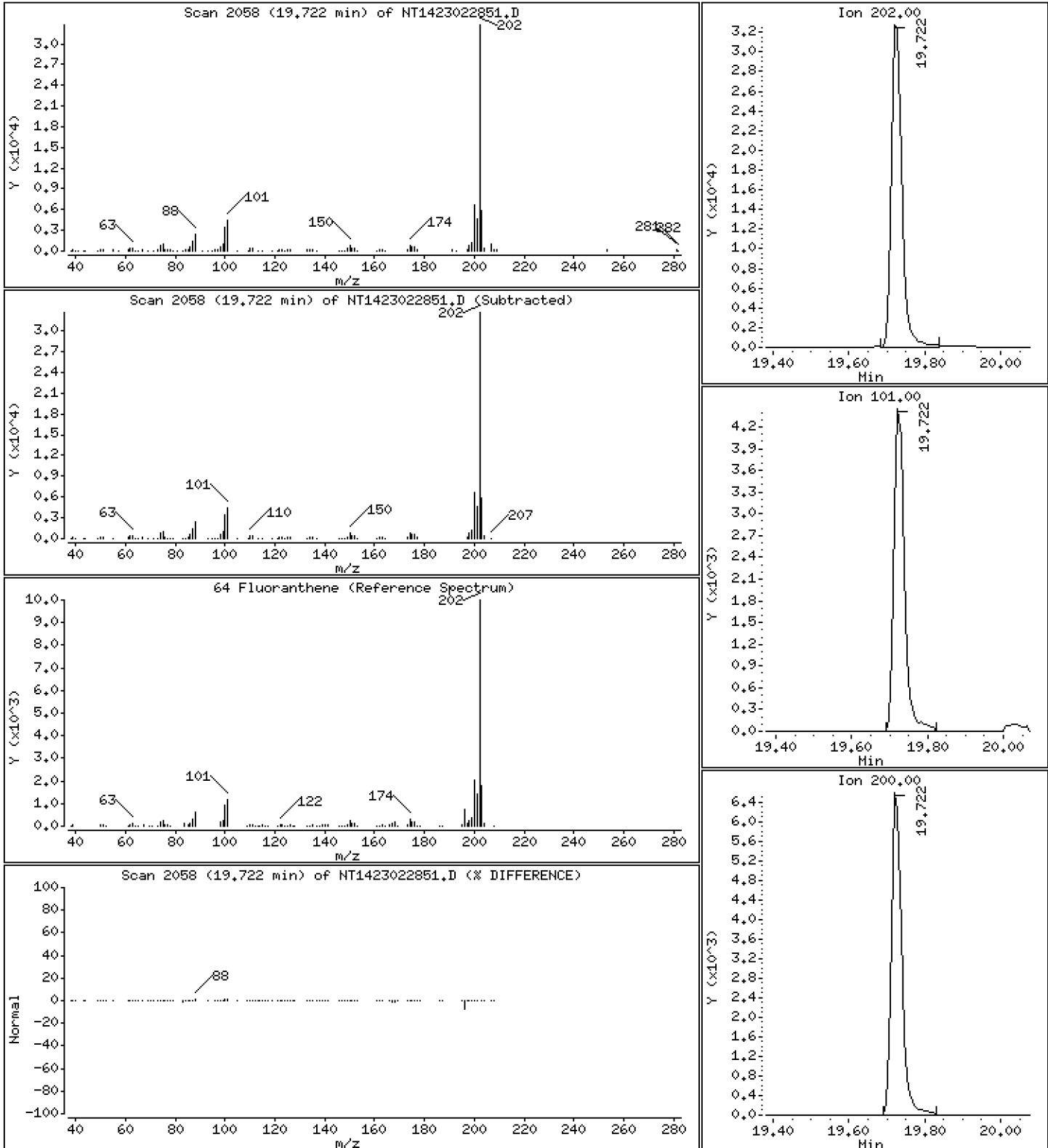
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 0,4660 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

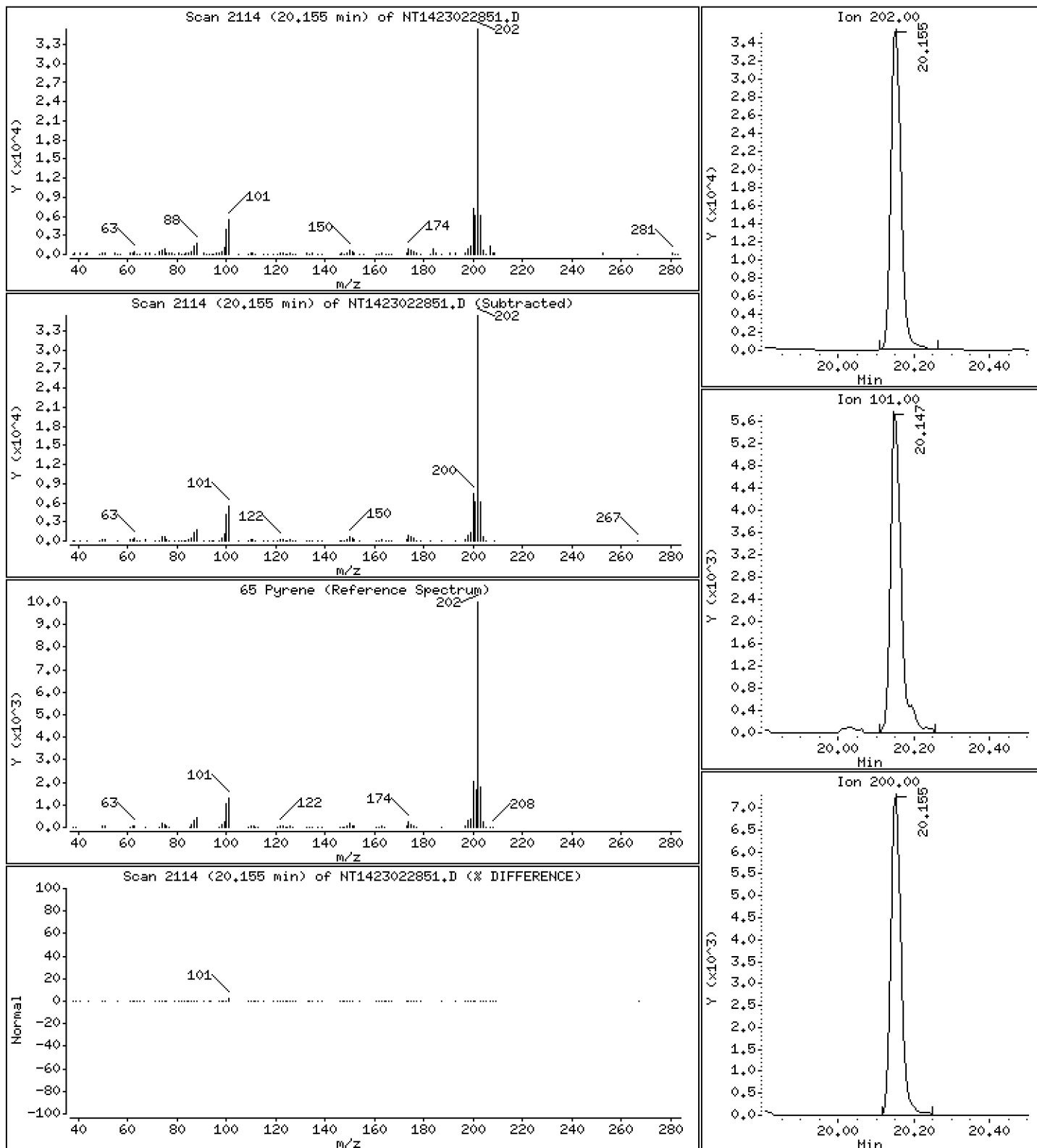
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 0,4661 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

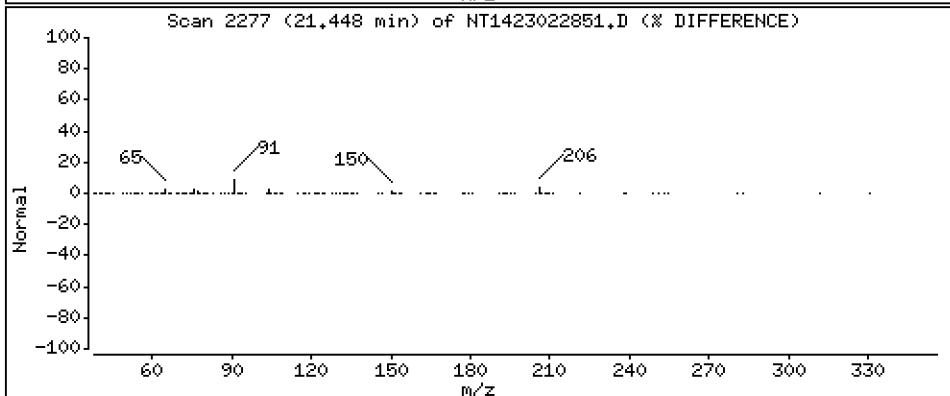
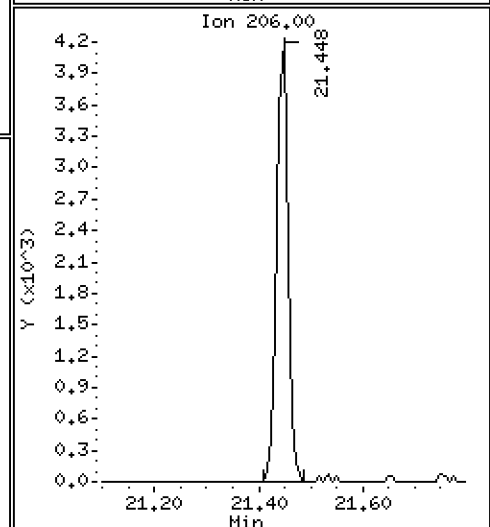
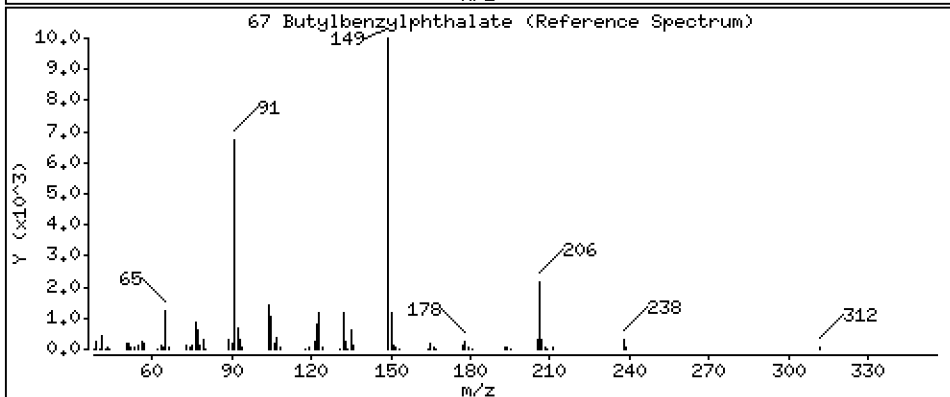
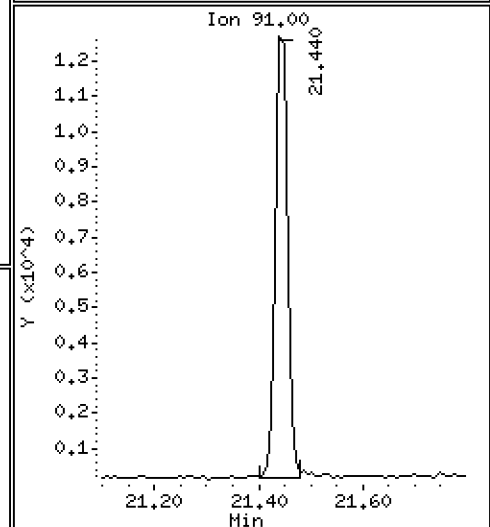
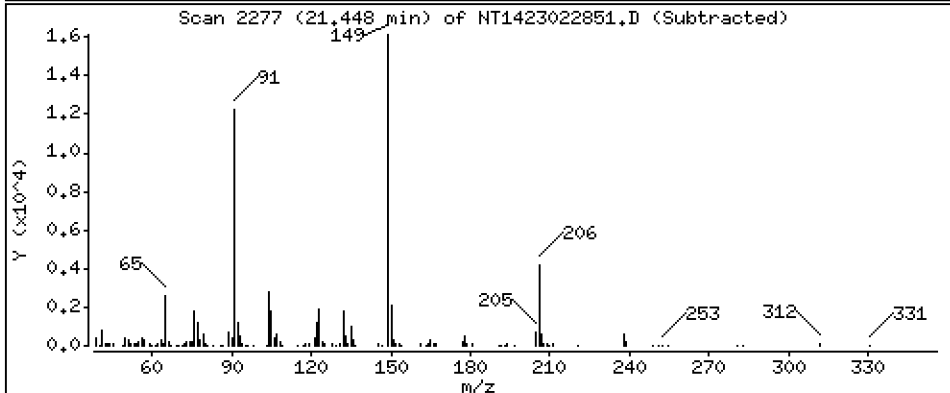
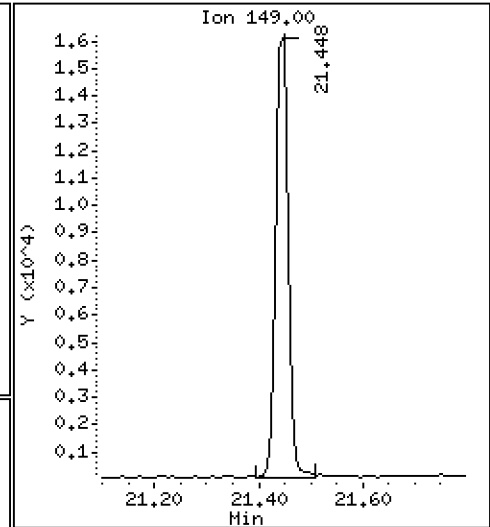
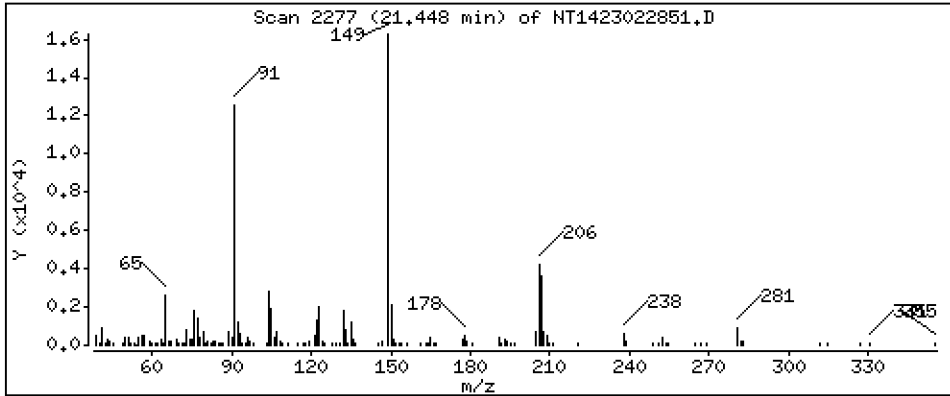
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 0,5157 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

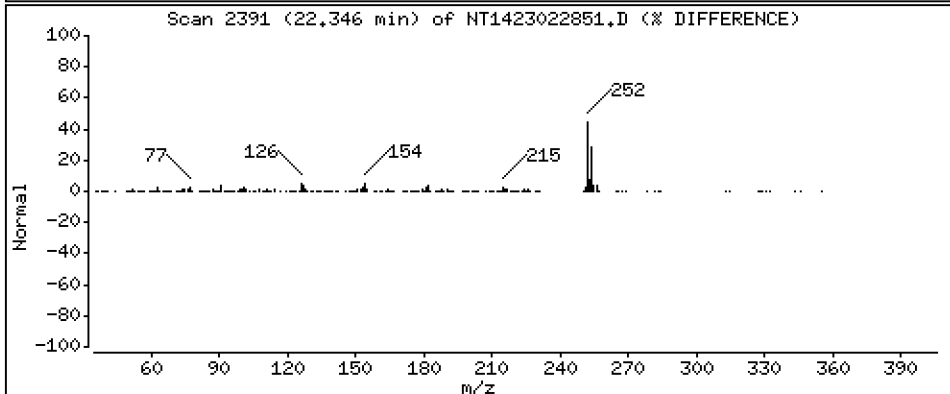
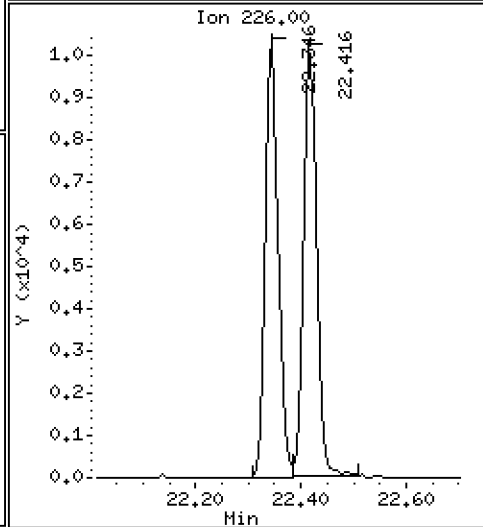
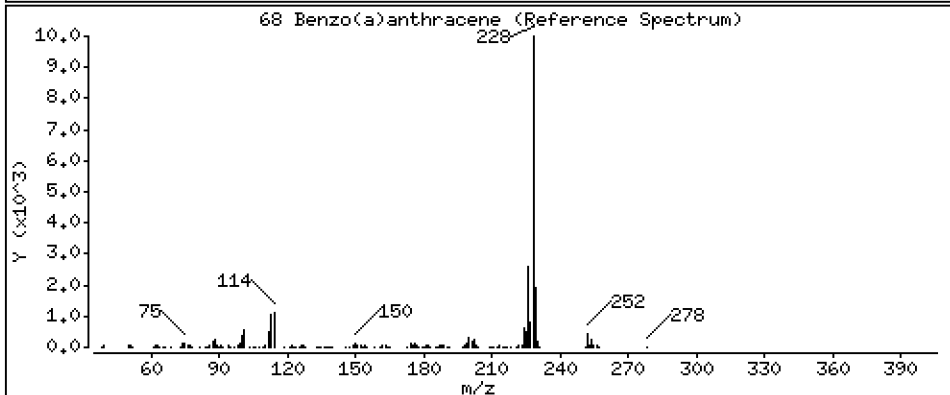
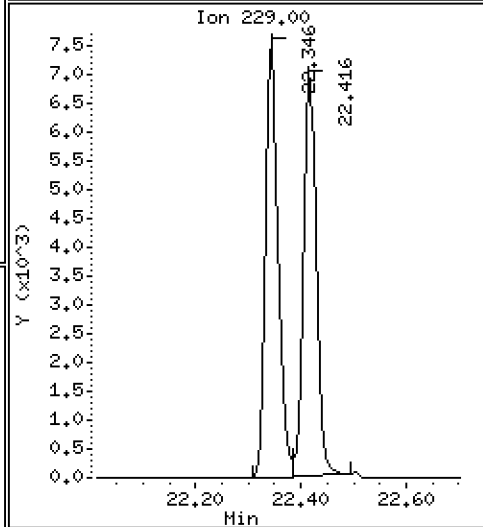
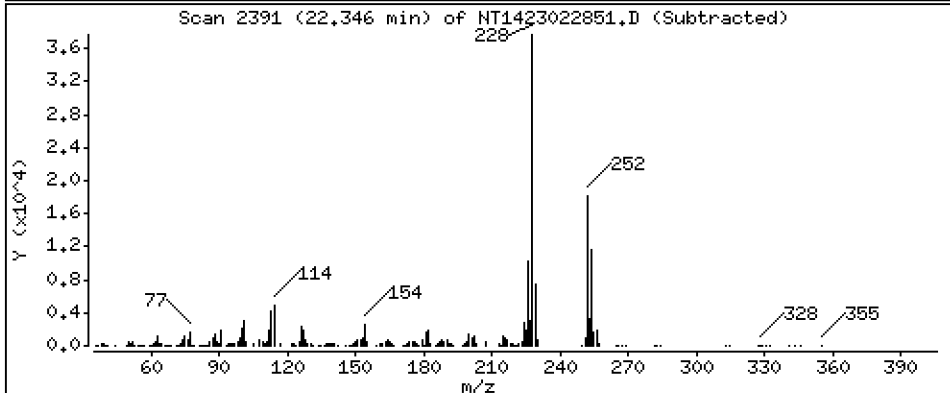
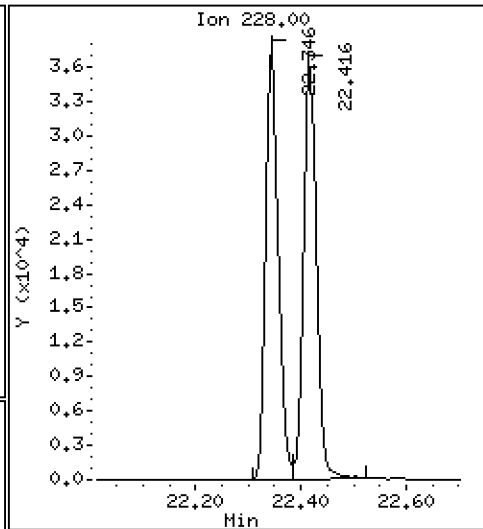
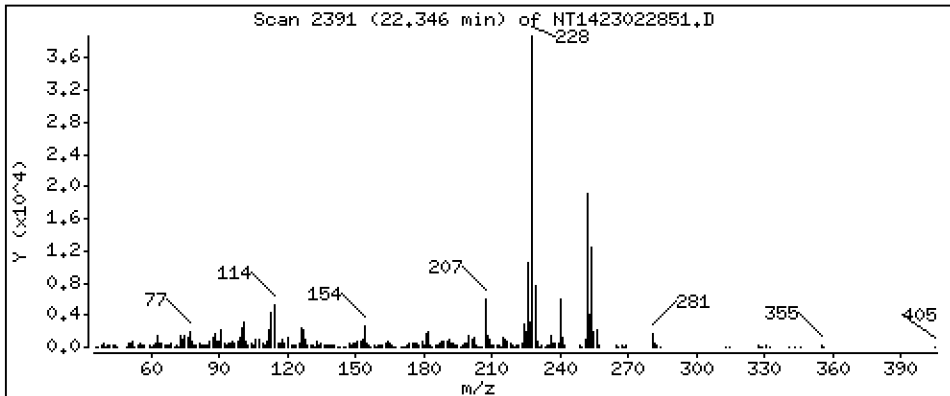
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 0,5494 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

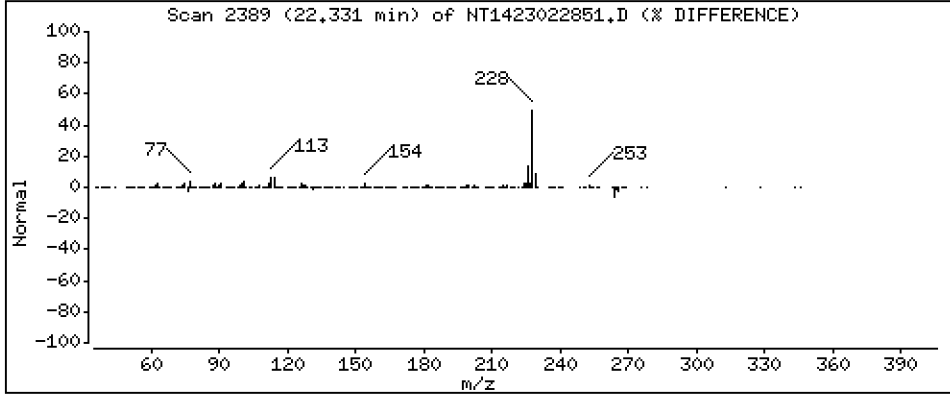
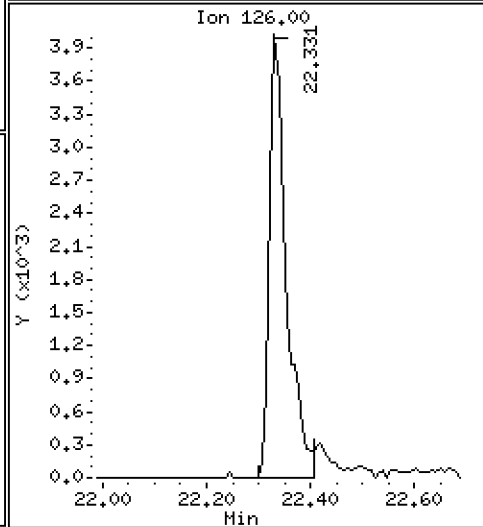
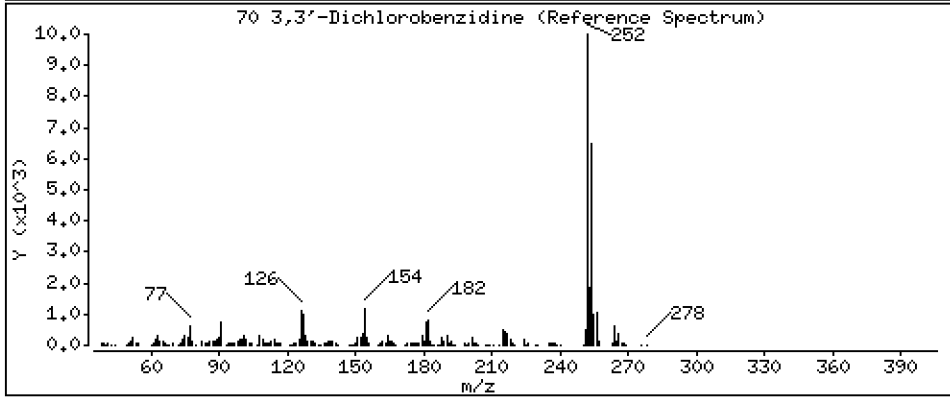
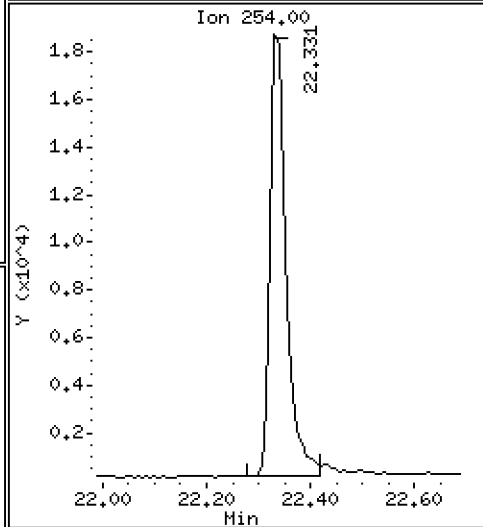
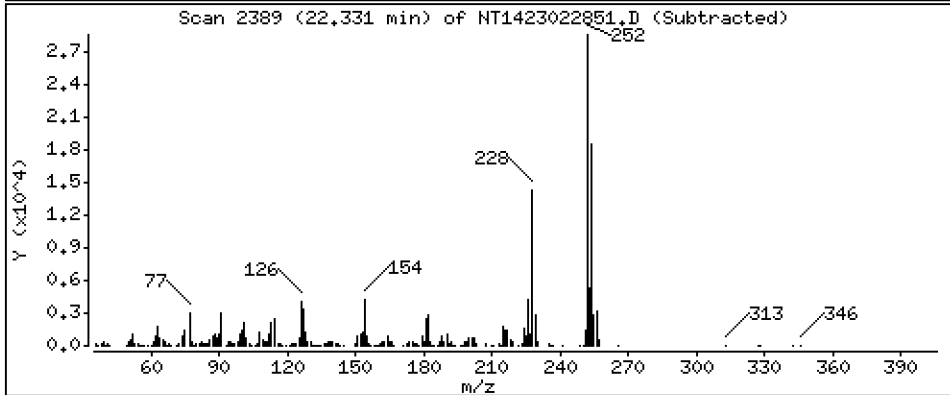
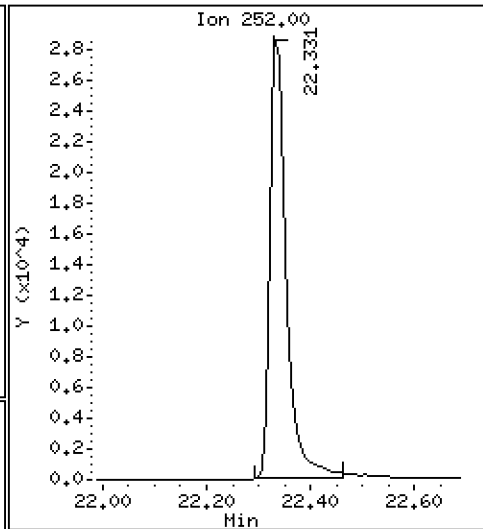
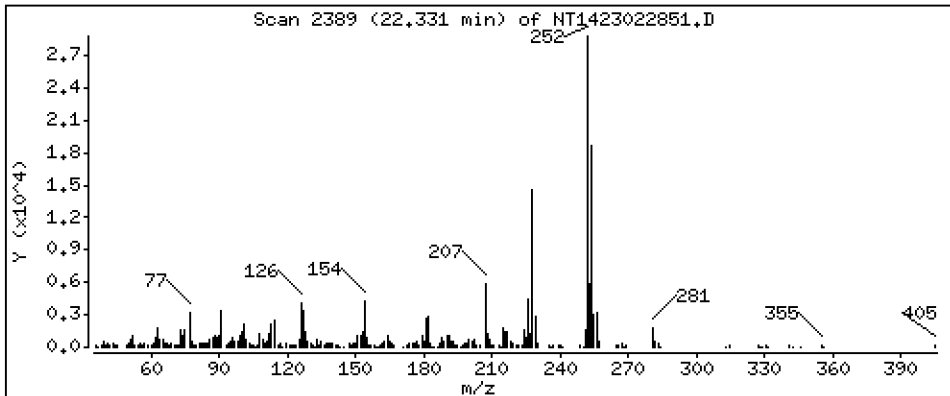
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

70 3,3'-Dichlorobenzidine

Concentration: 1,836 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

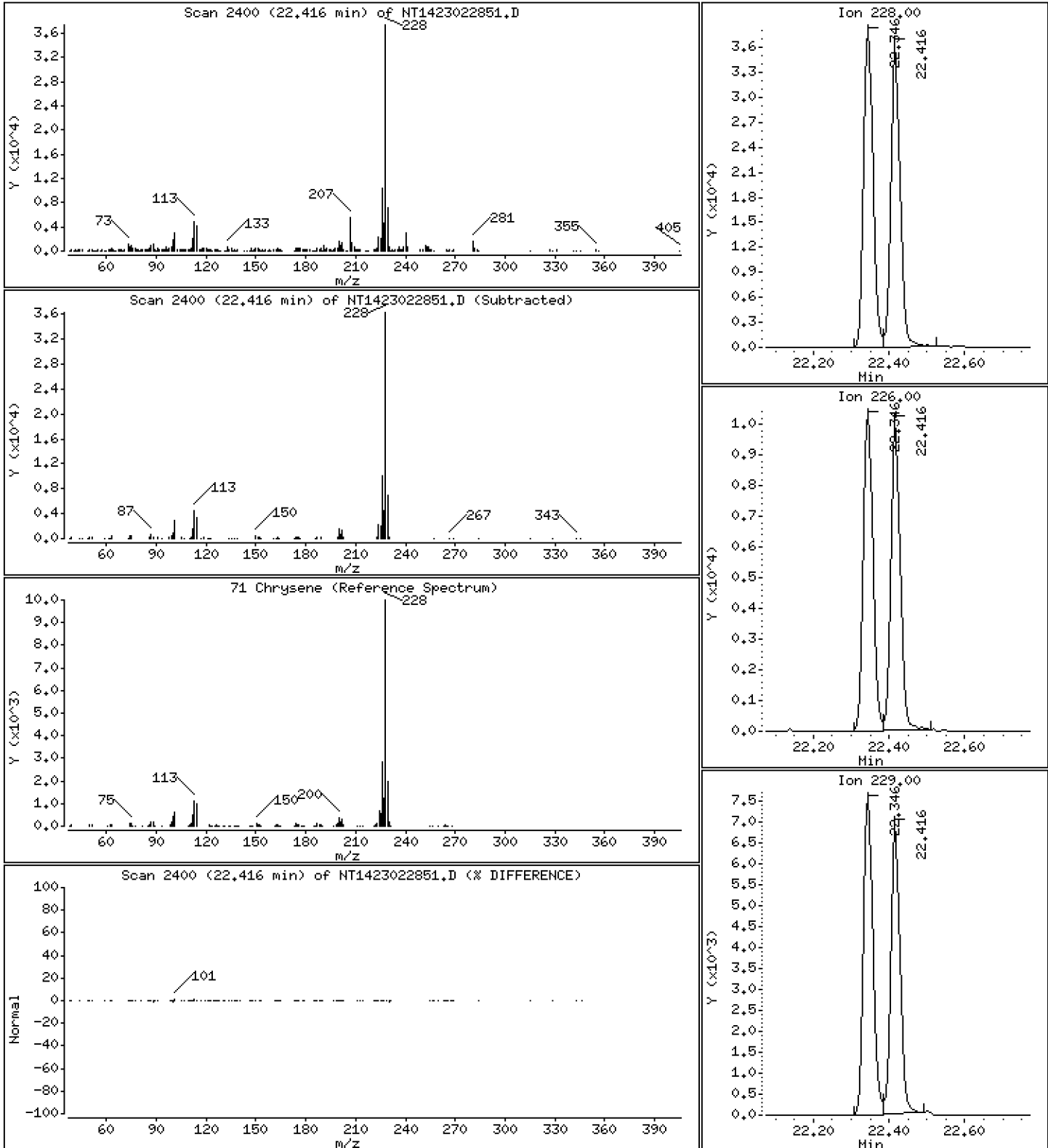
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 0,5382 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

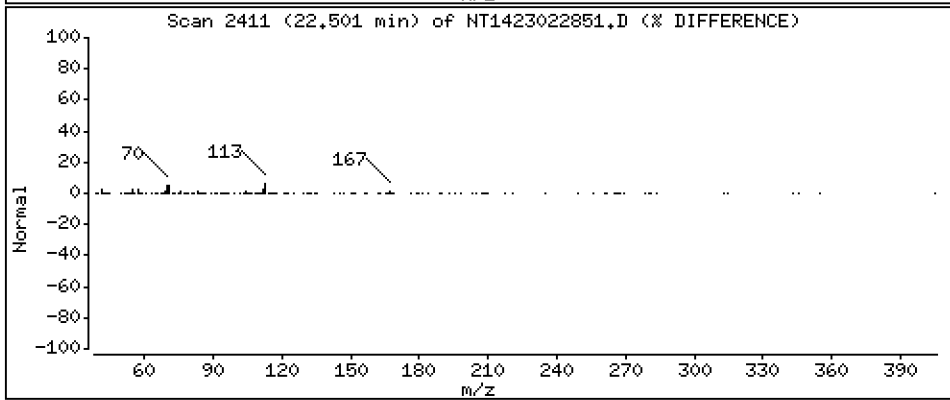
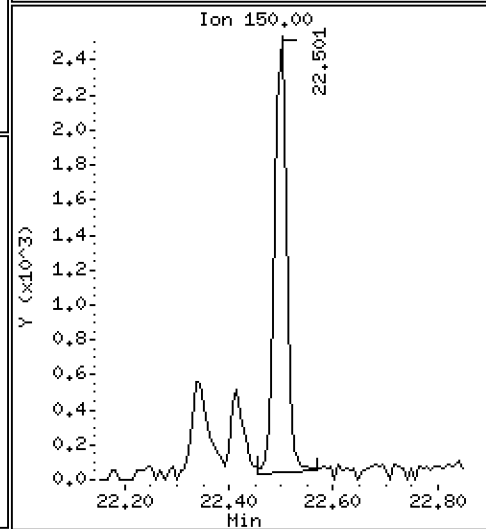
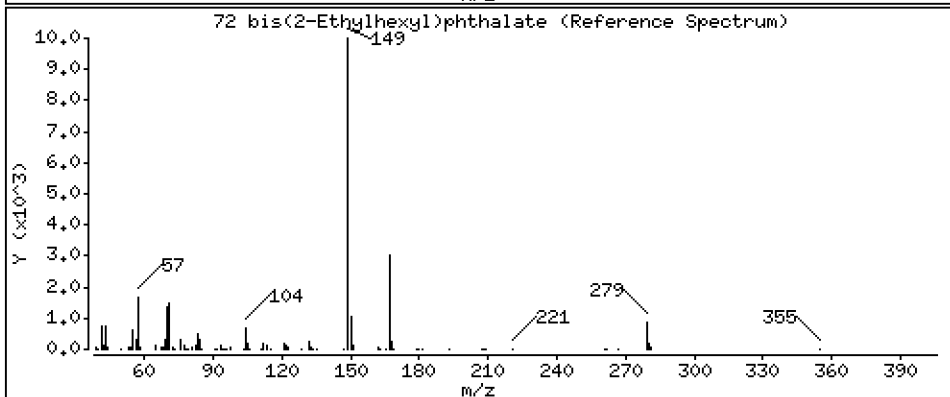
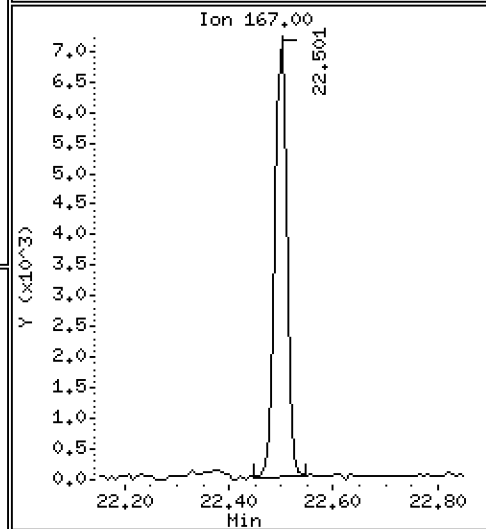
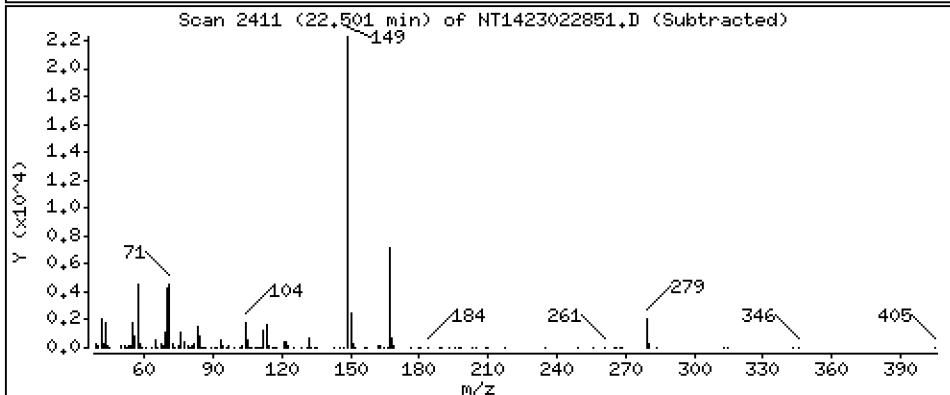
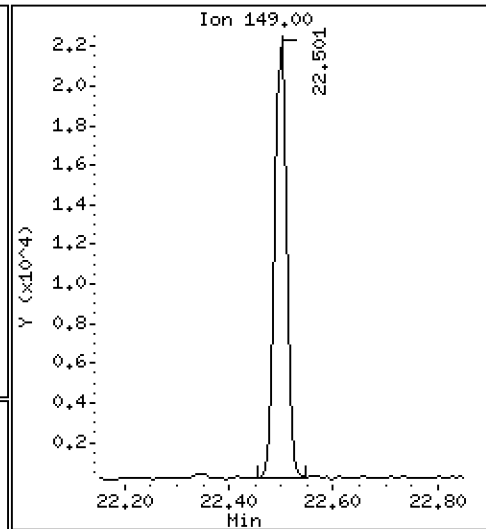
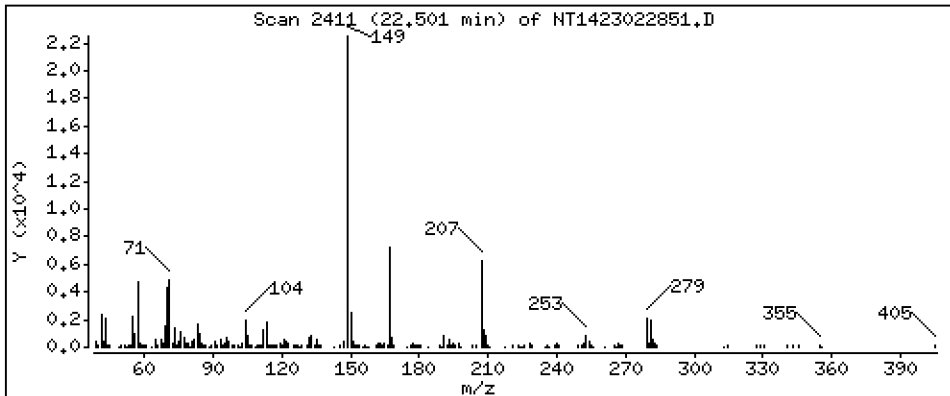
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 0,4540 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

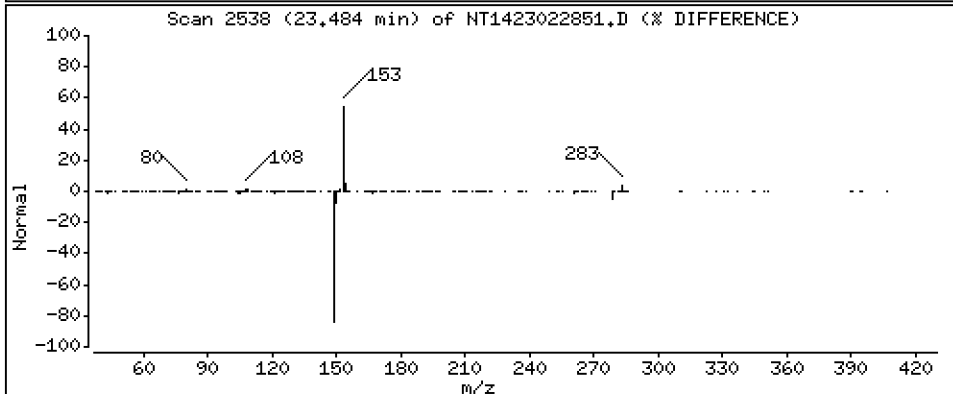
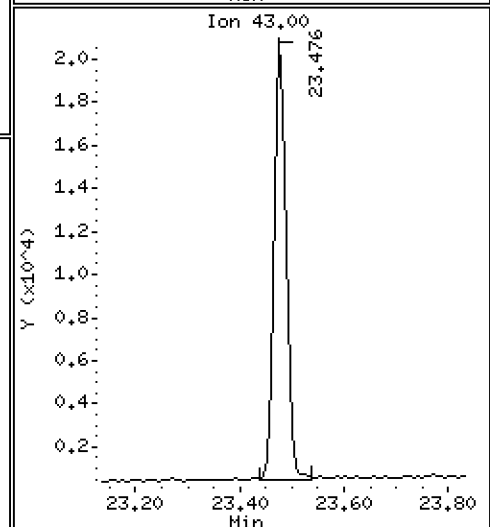
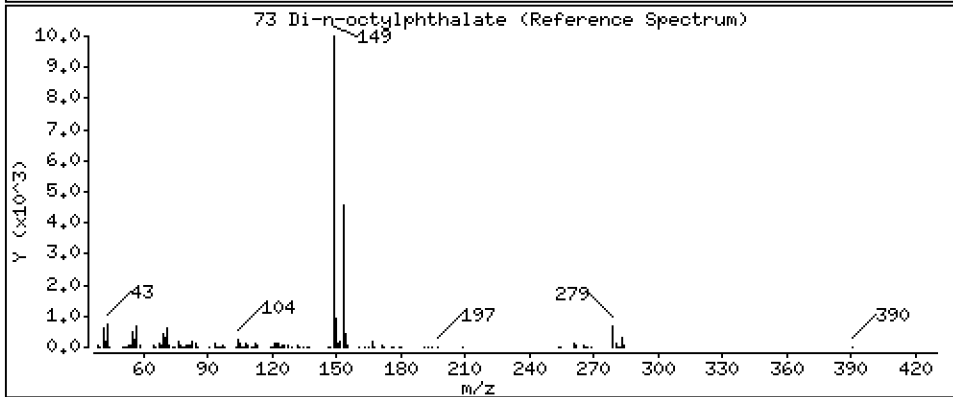
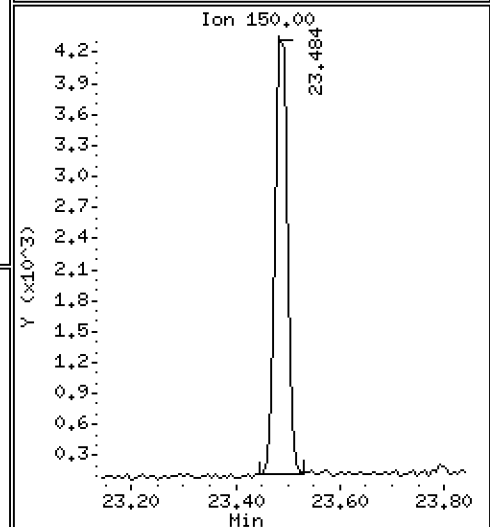
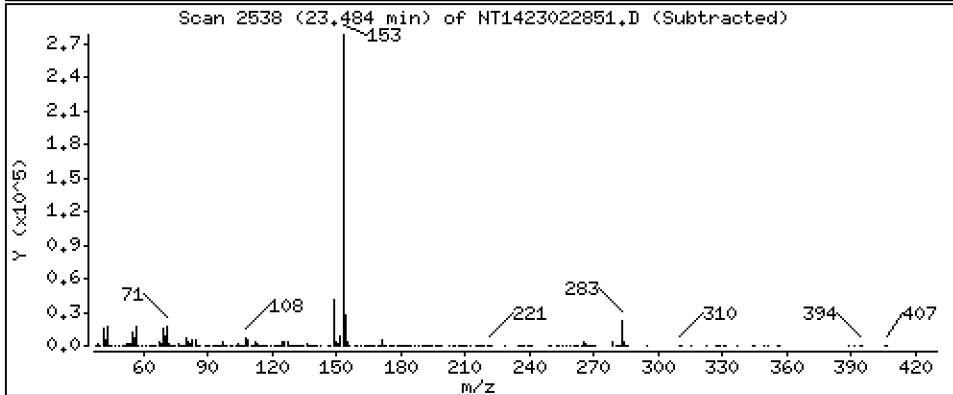
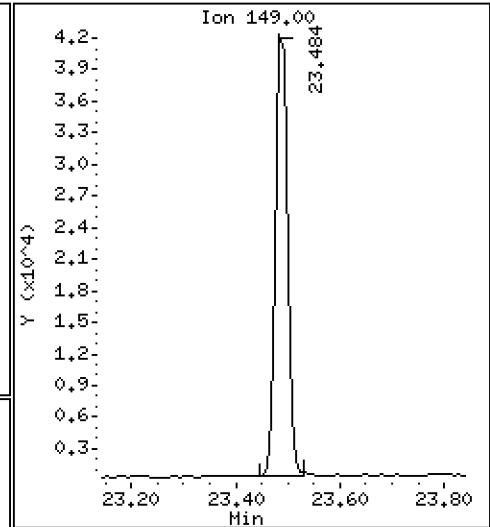
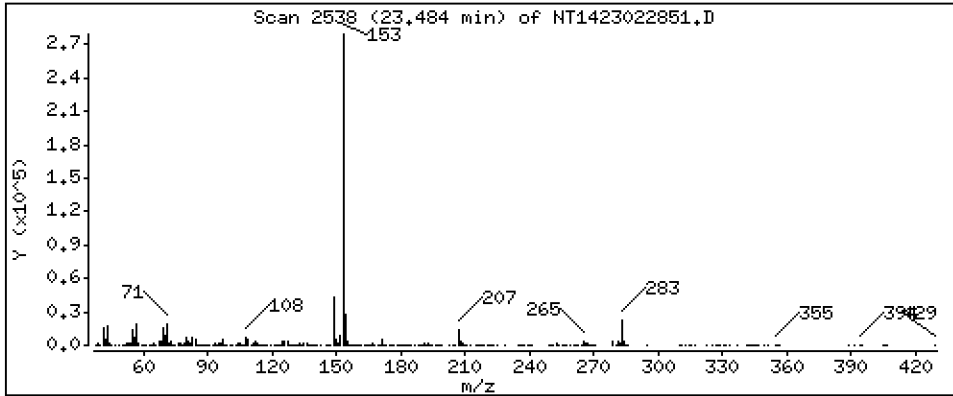
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 0,5007 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

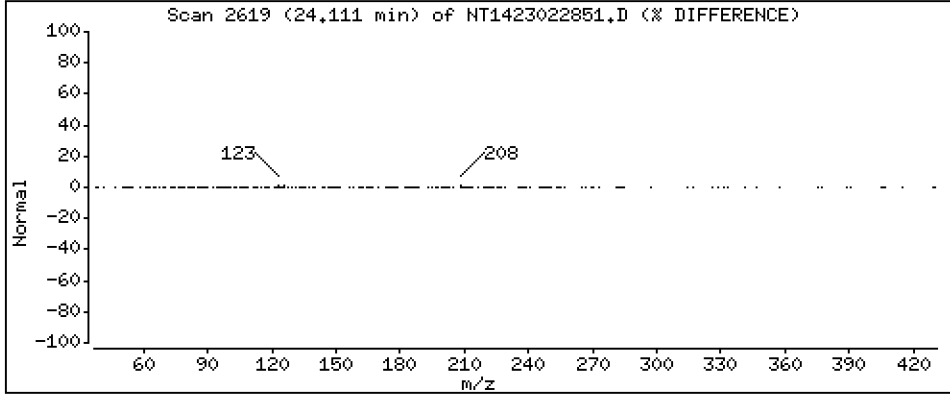
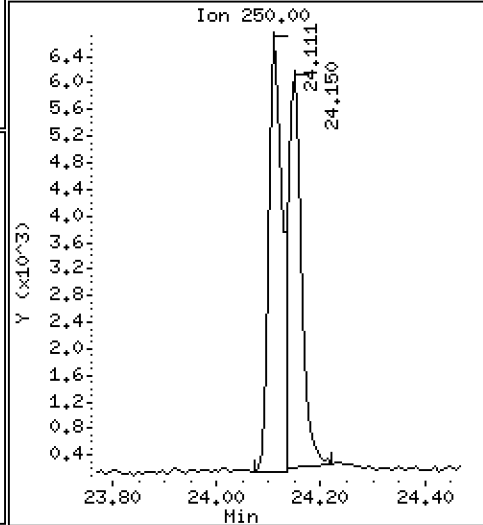
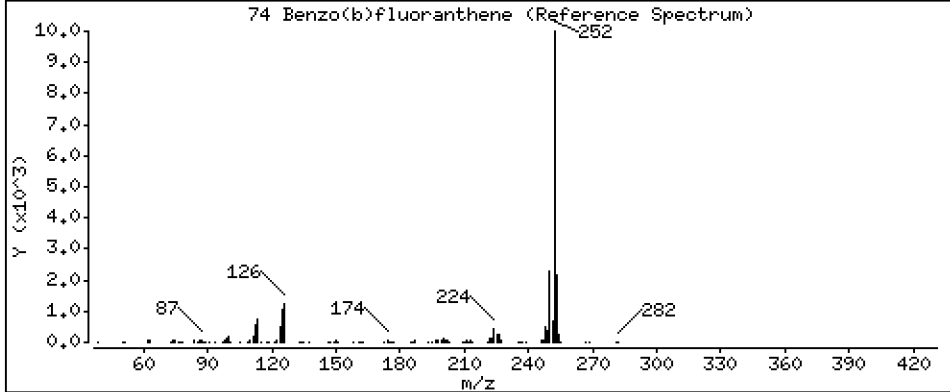
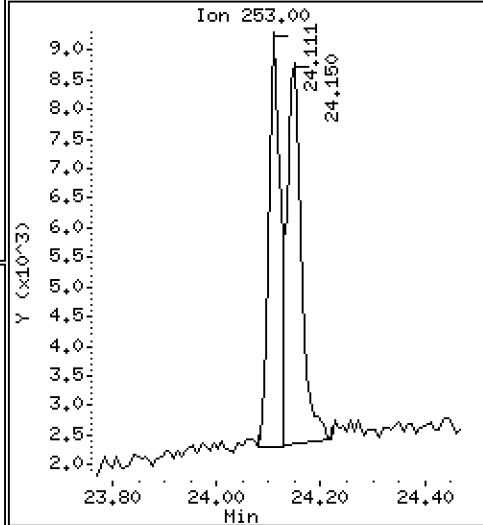
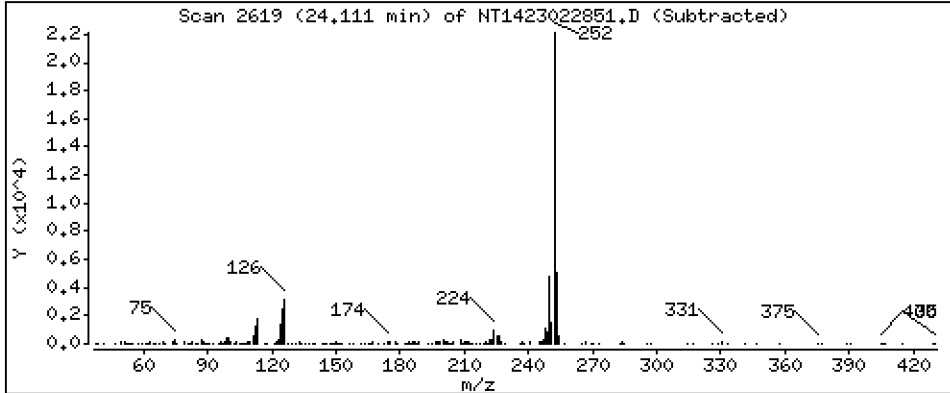
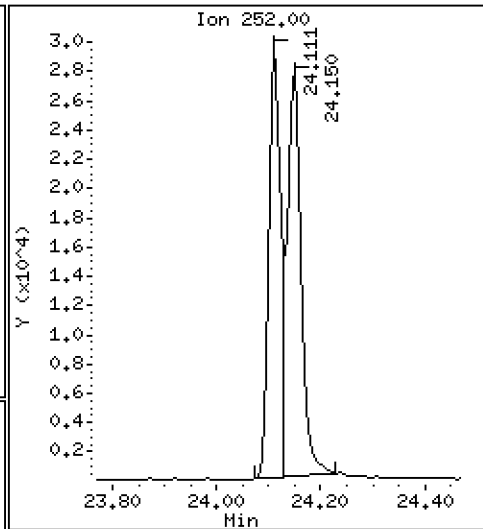
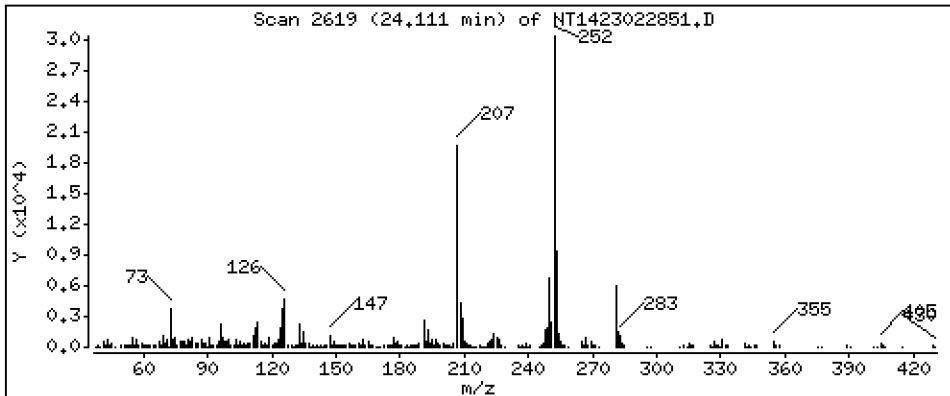
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 0,5764 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

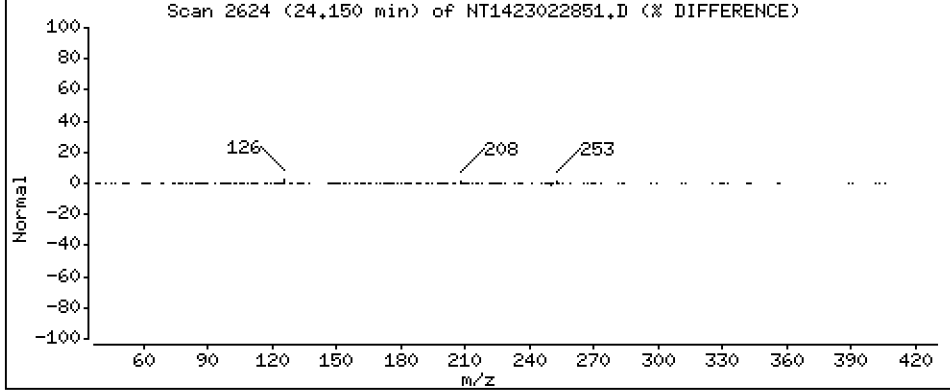
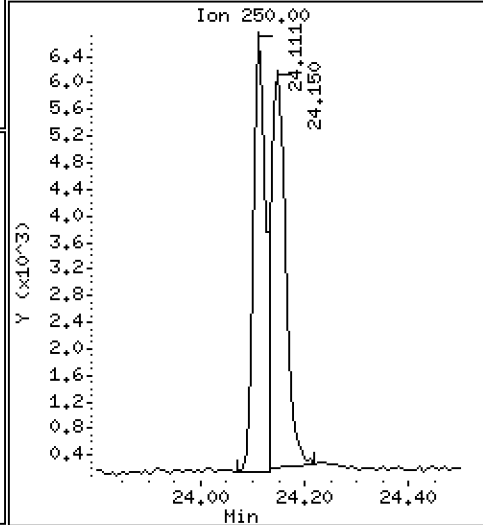
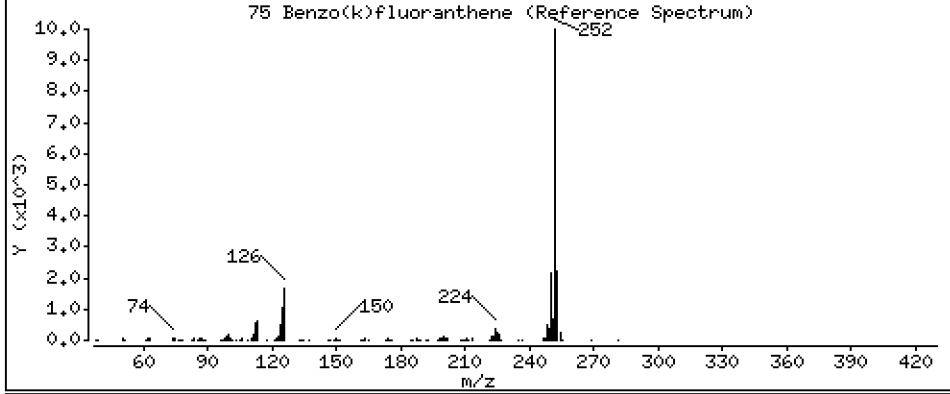
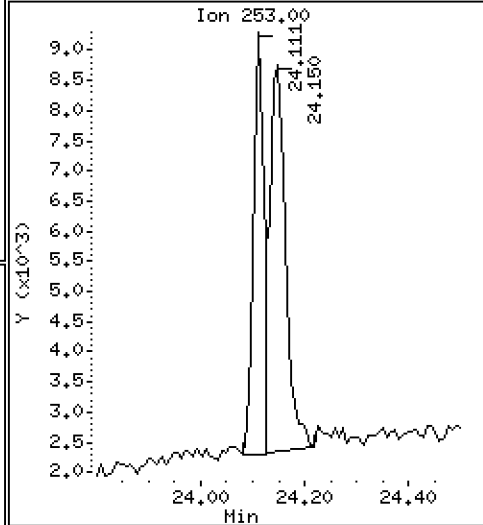
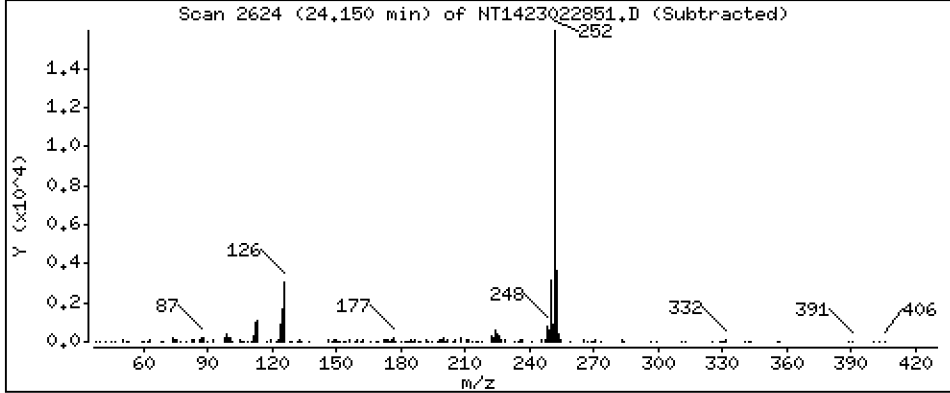
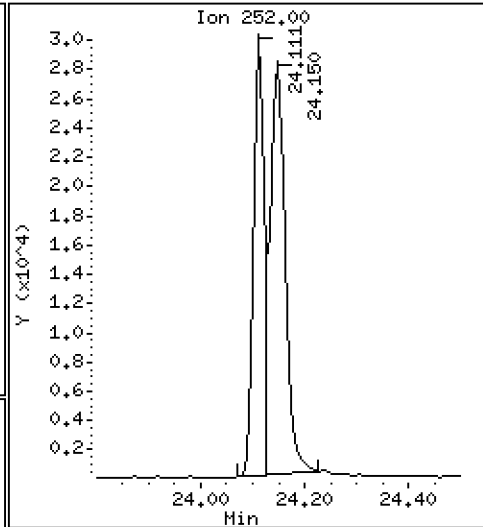
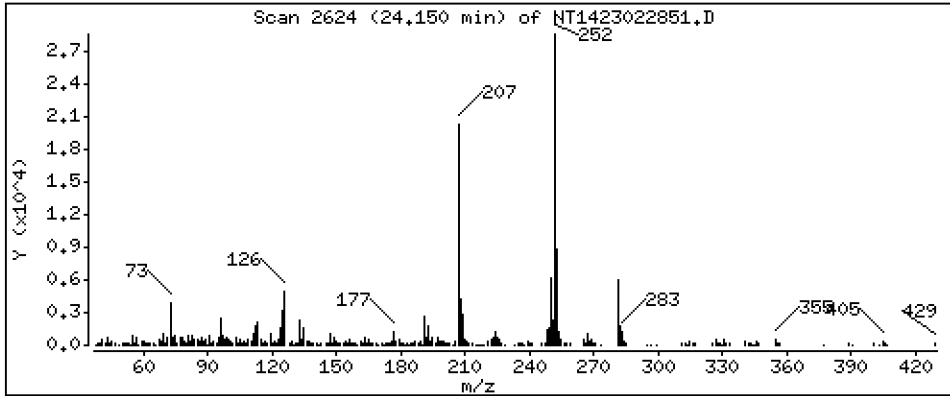
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 0,6743 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

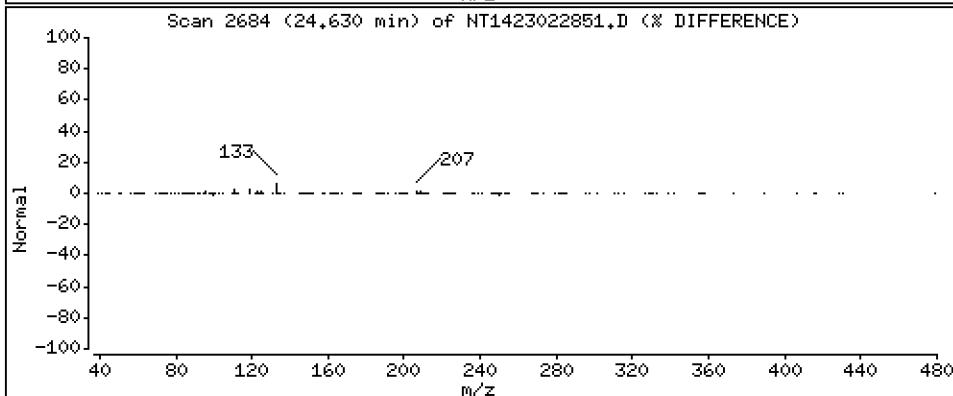
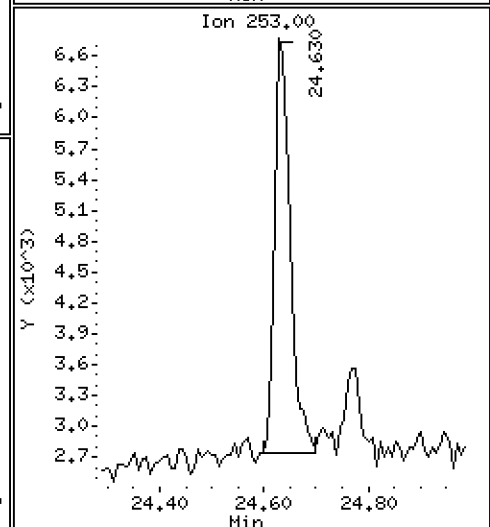
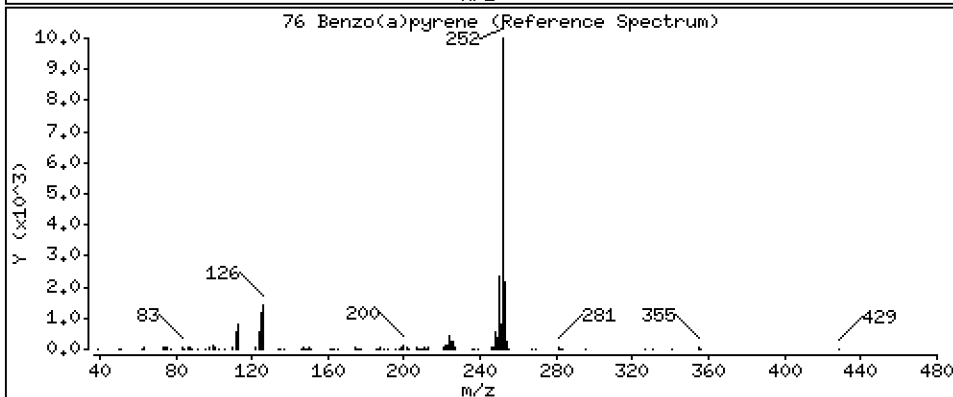
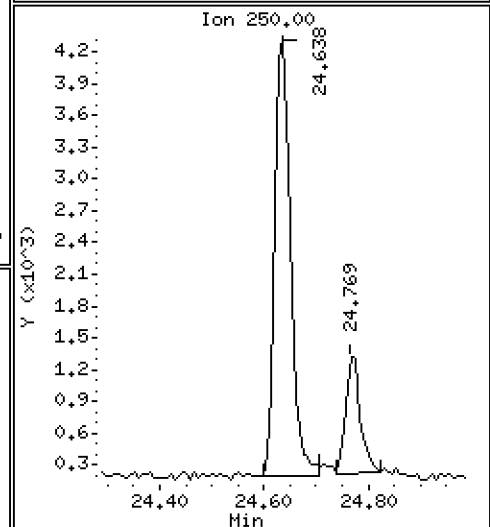
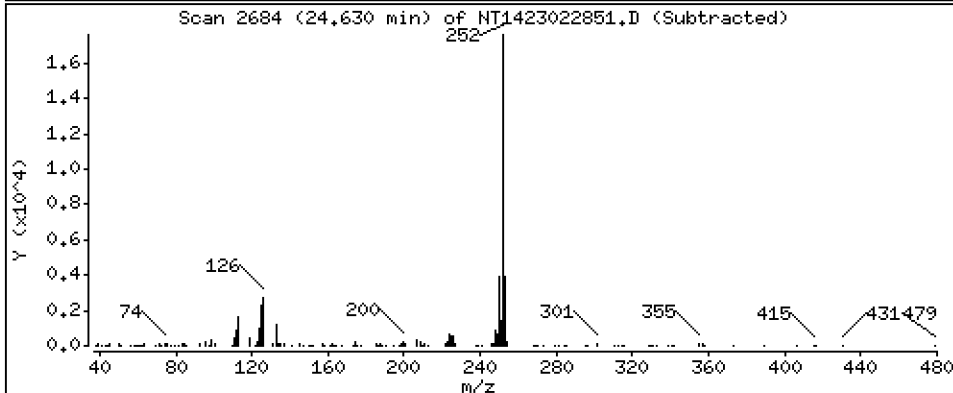
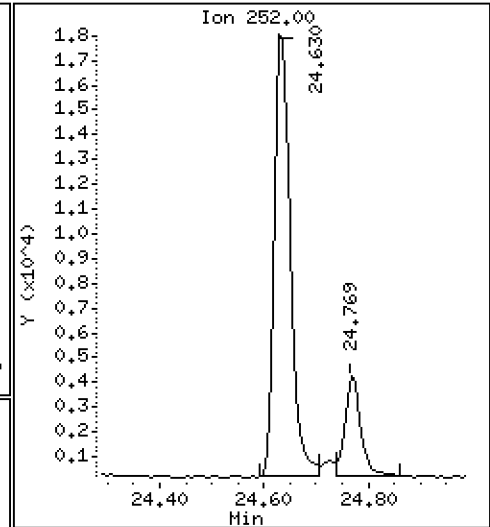
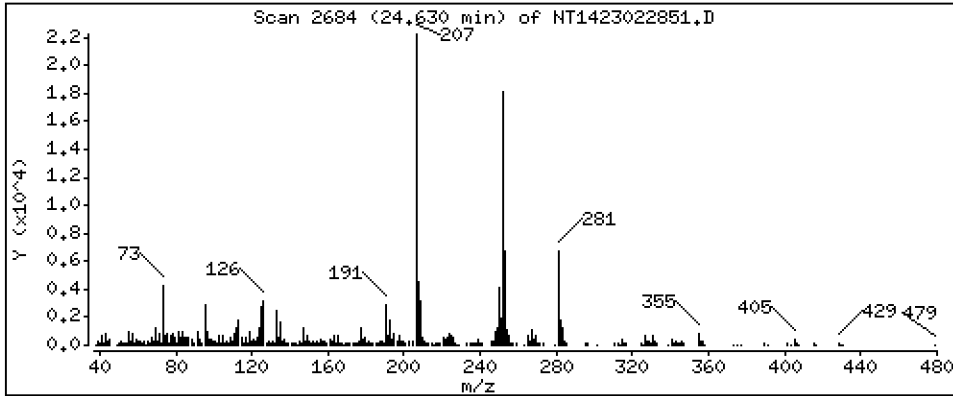
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 0,5413 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

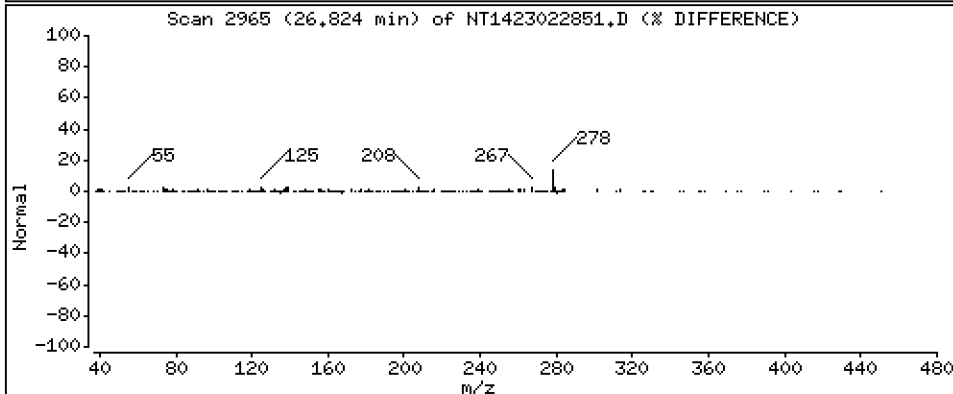
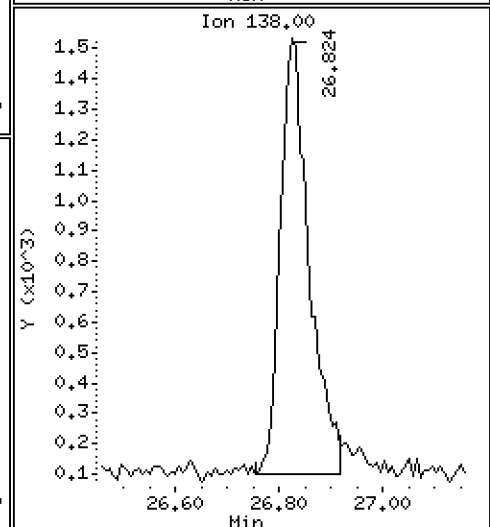
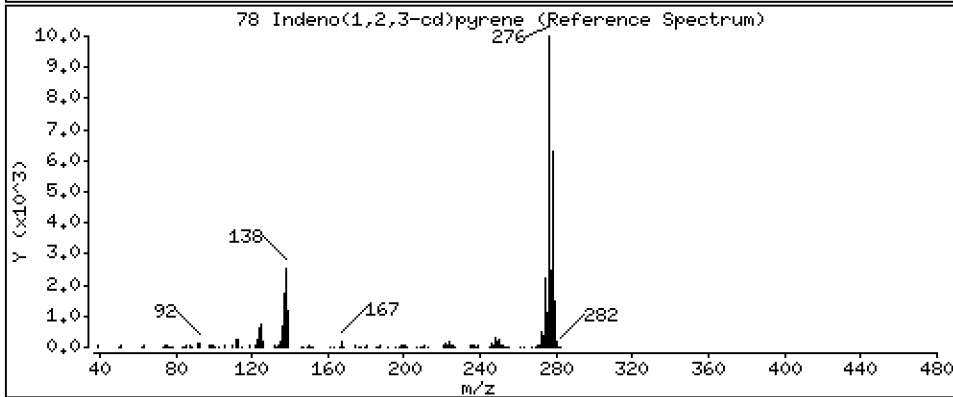
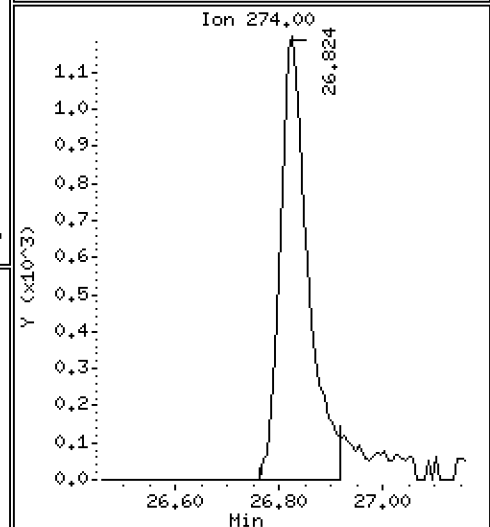
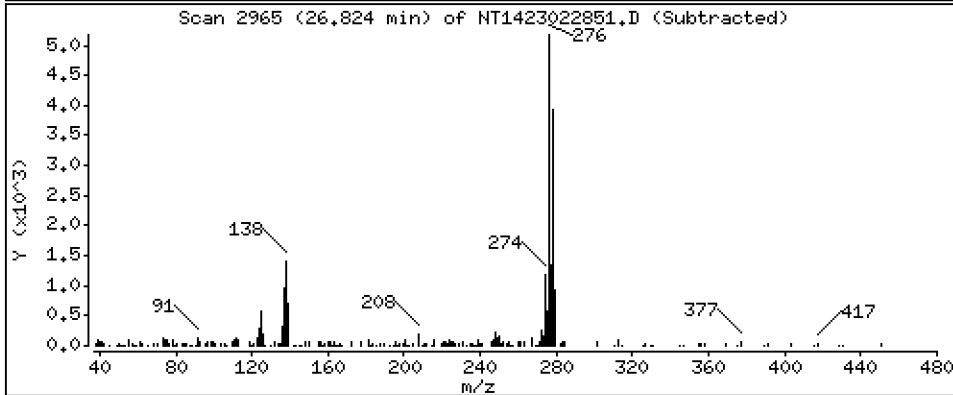
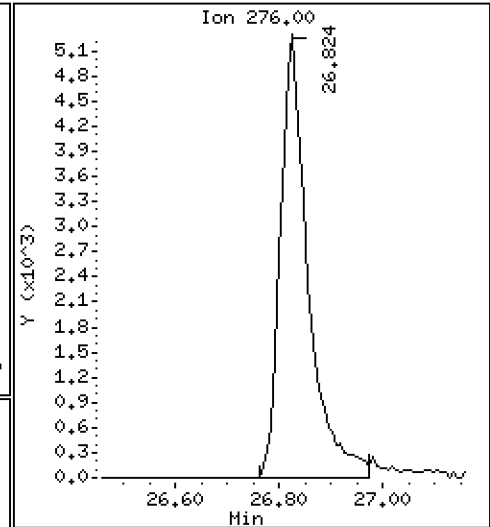
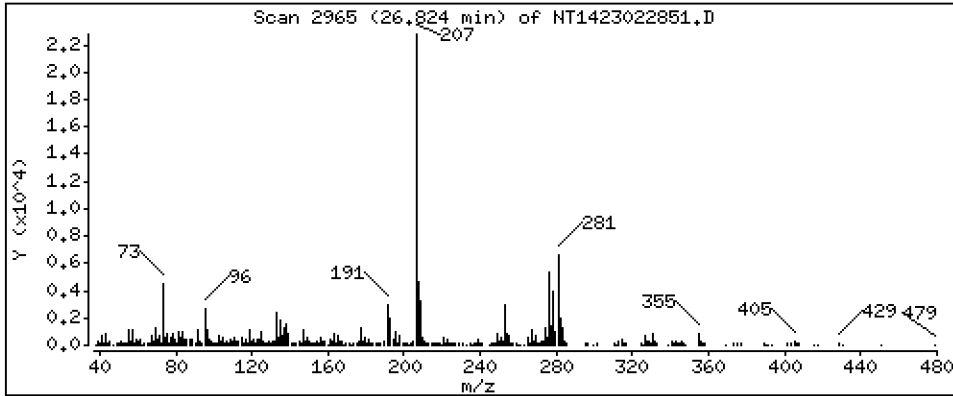
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 0,2283 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

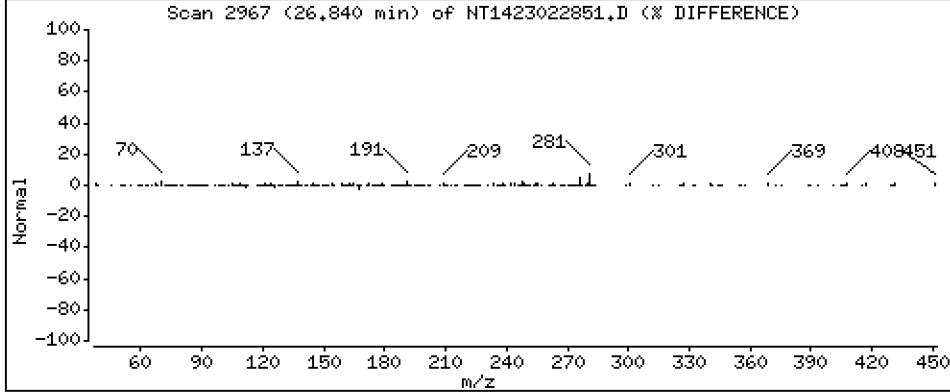
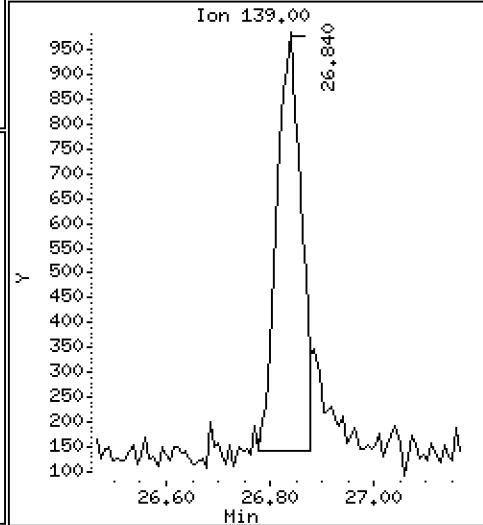
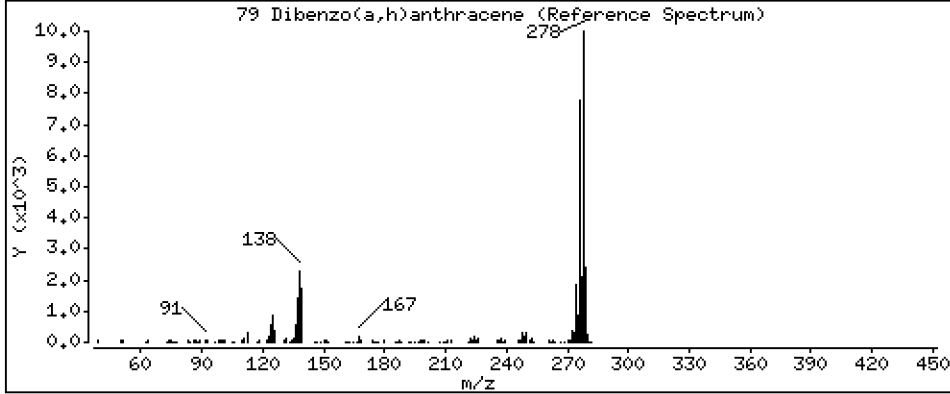
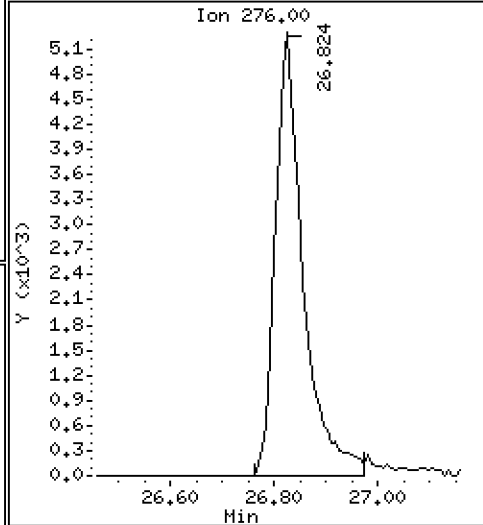
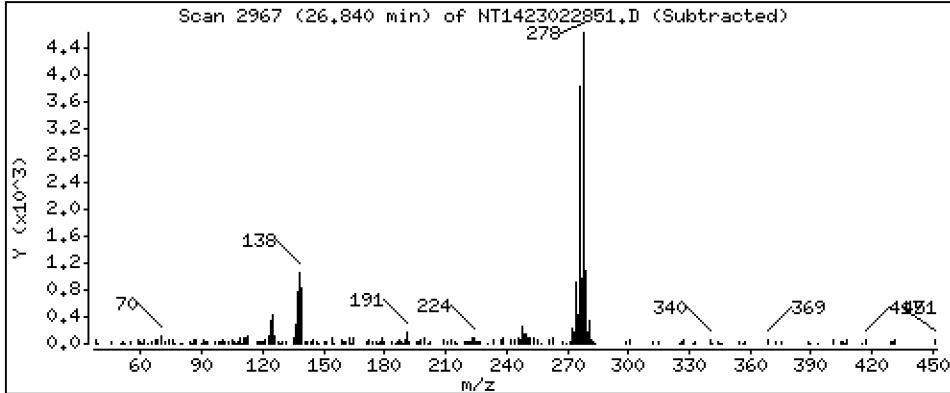
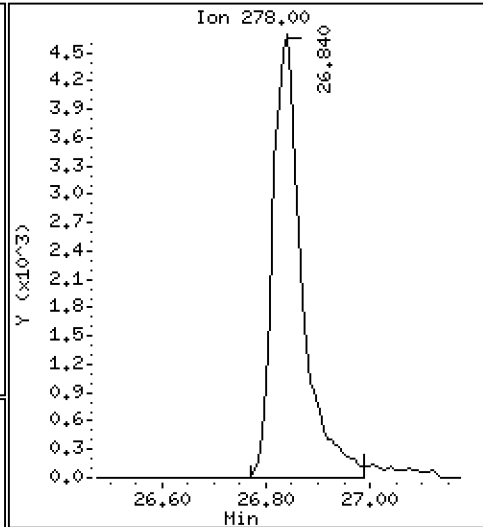
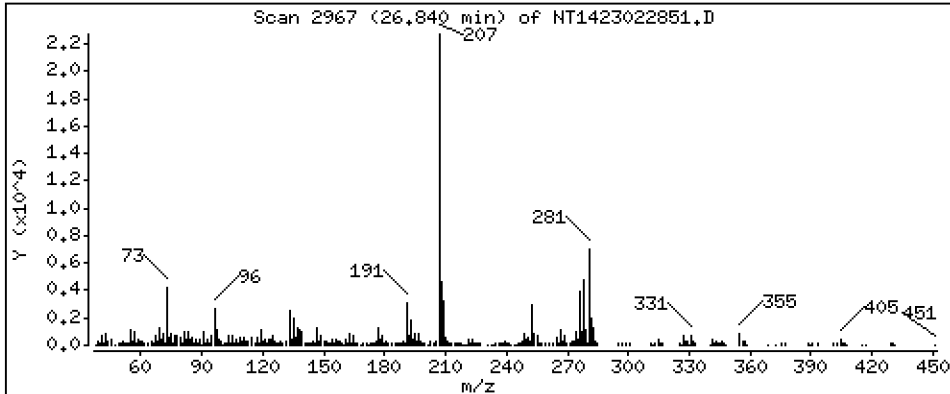
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 0,2501 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

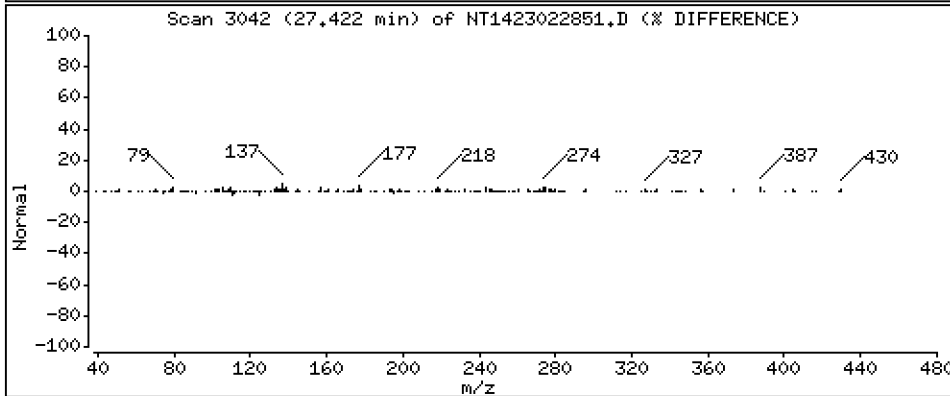
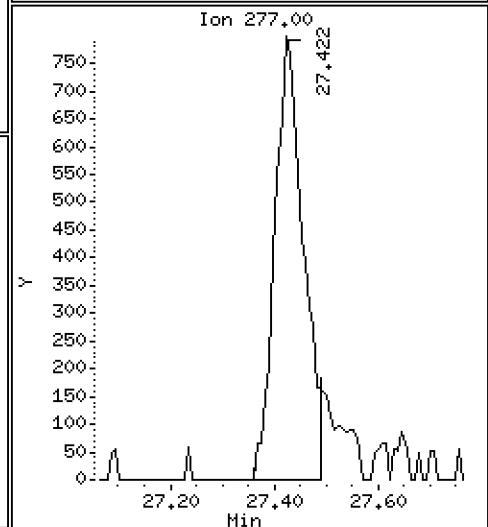
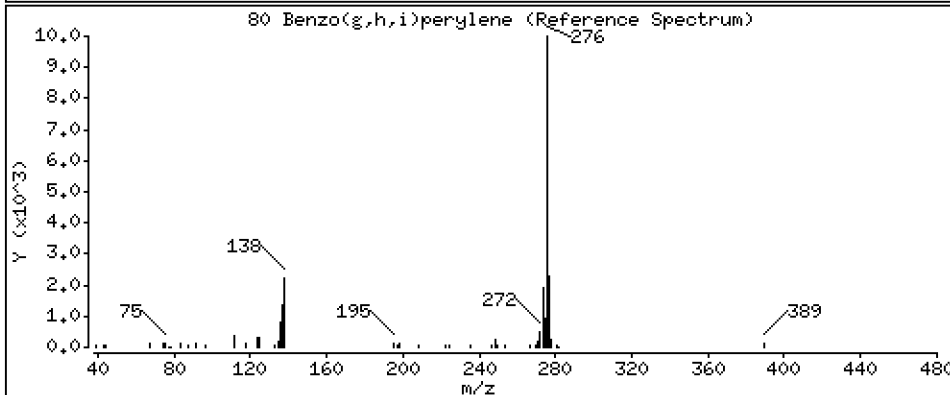
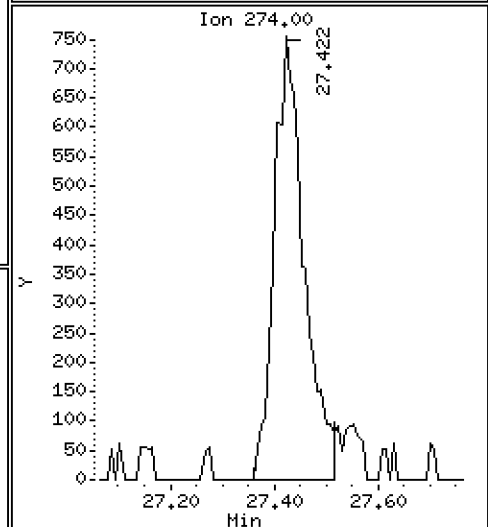
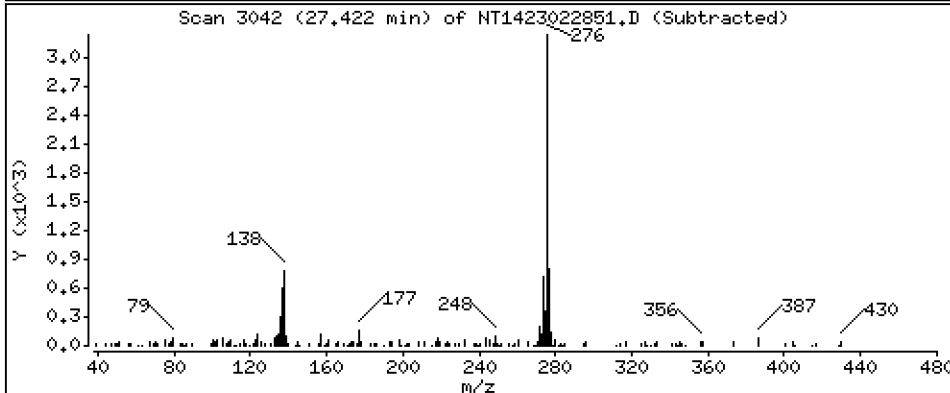
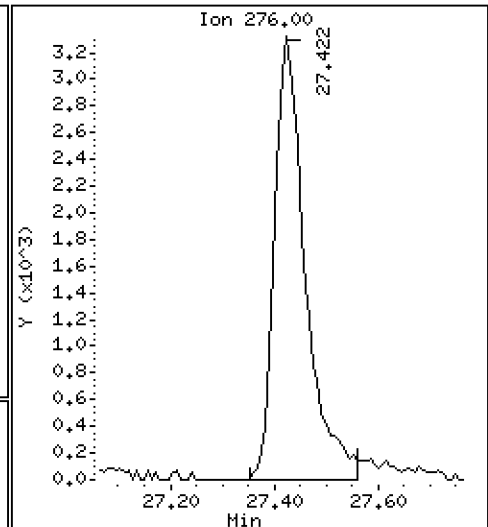
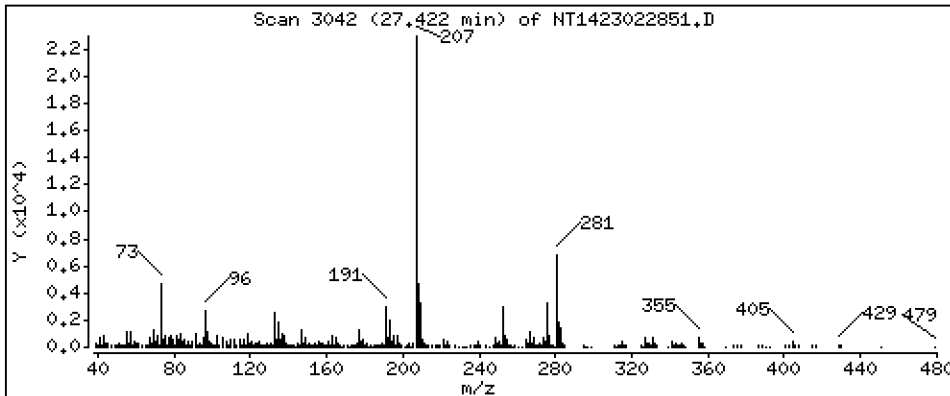
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 0,1825 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

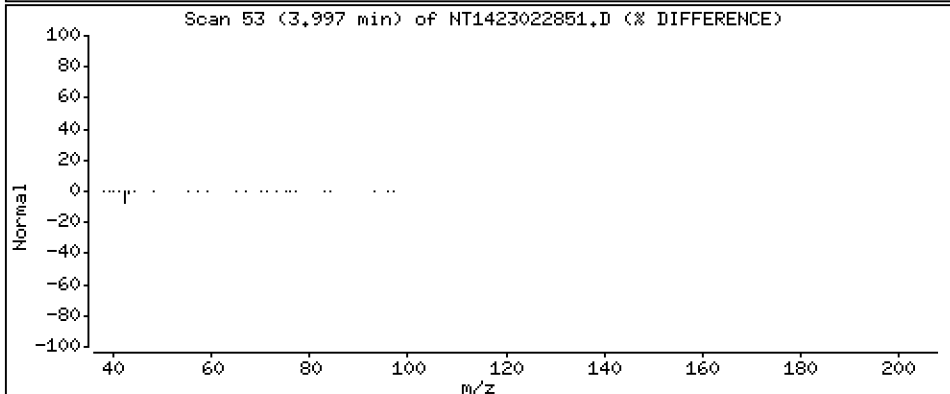
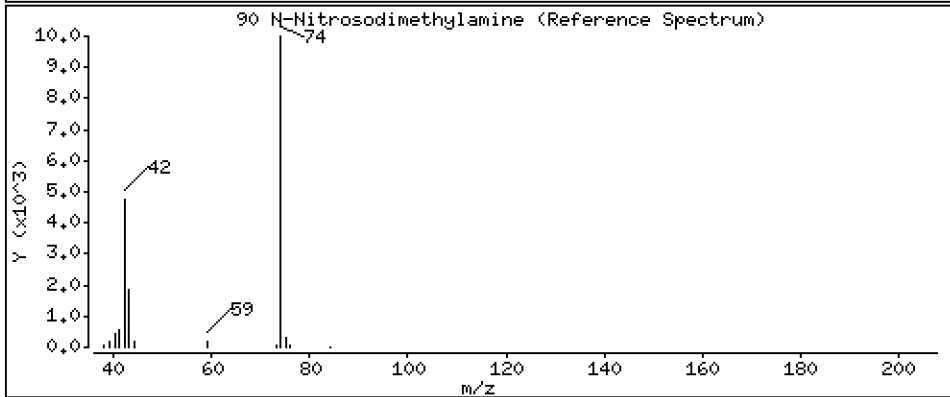
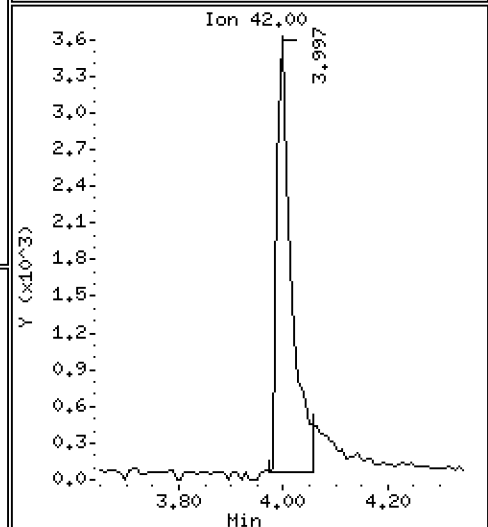
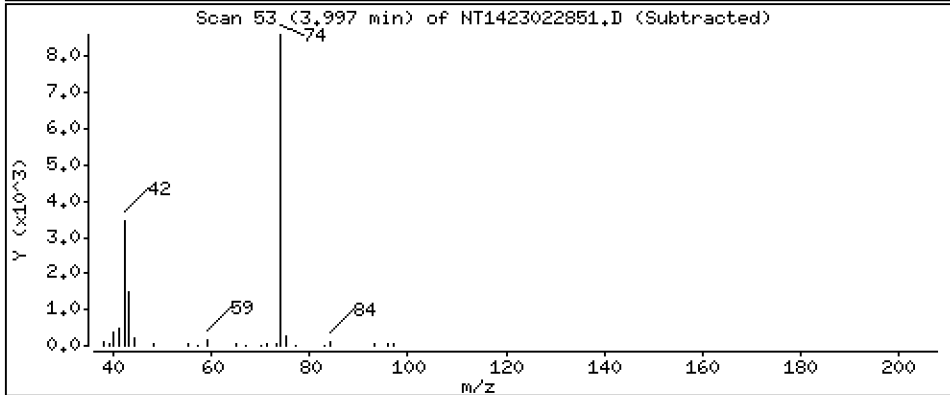
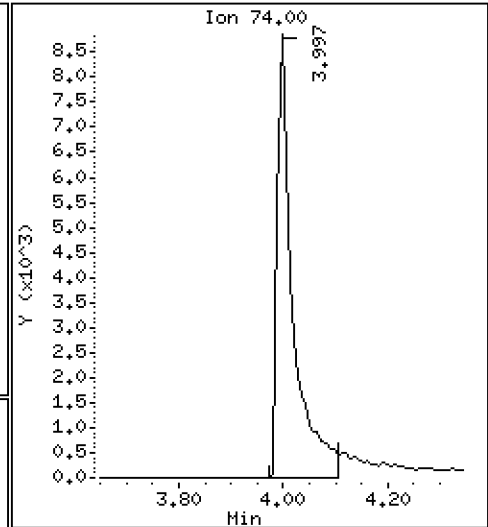
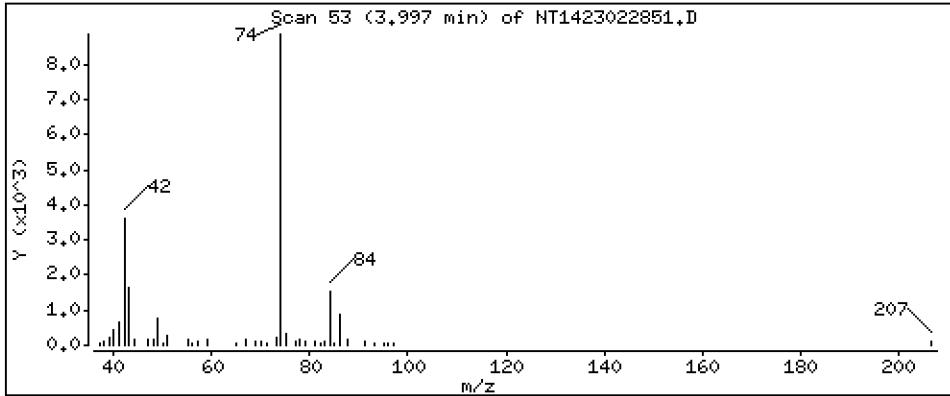
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

90 N-Nitrosodimethylamine

Concentration: 0.7828 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

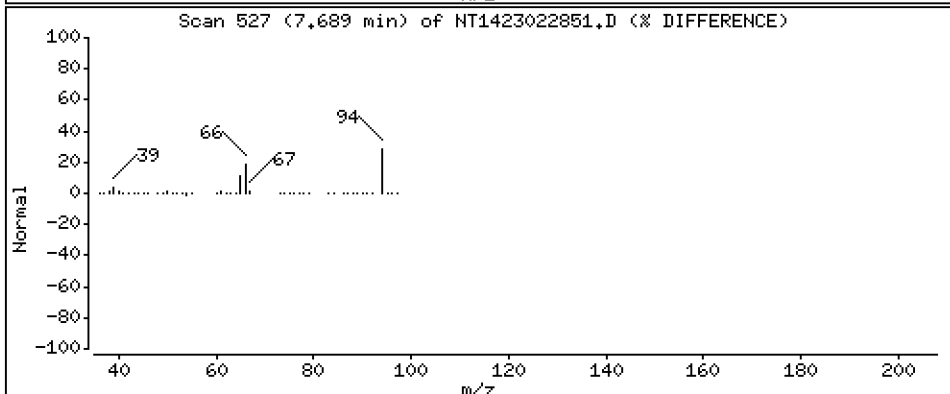
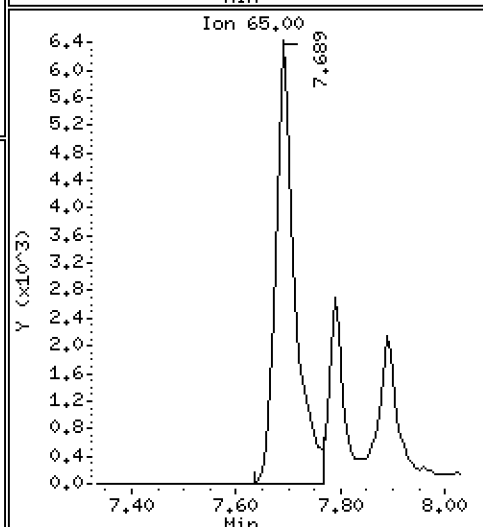
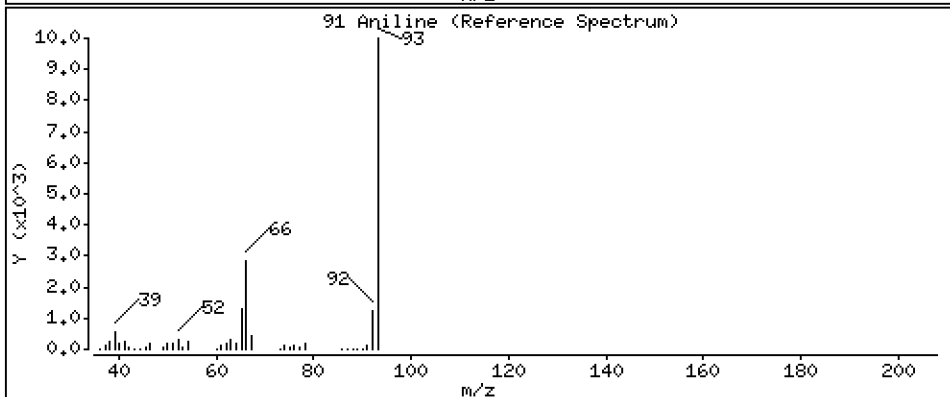
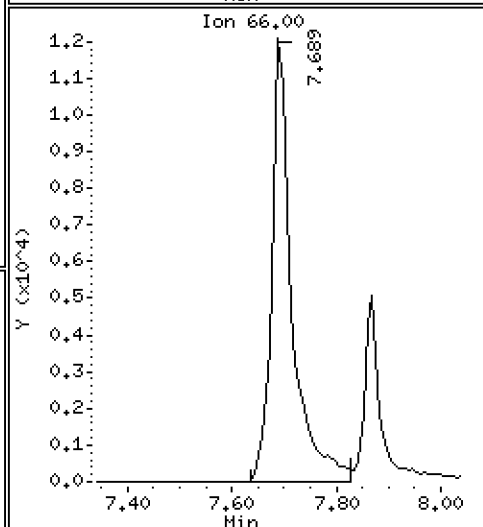
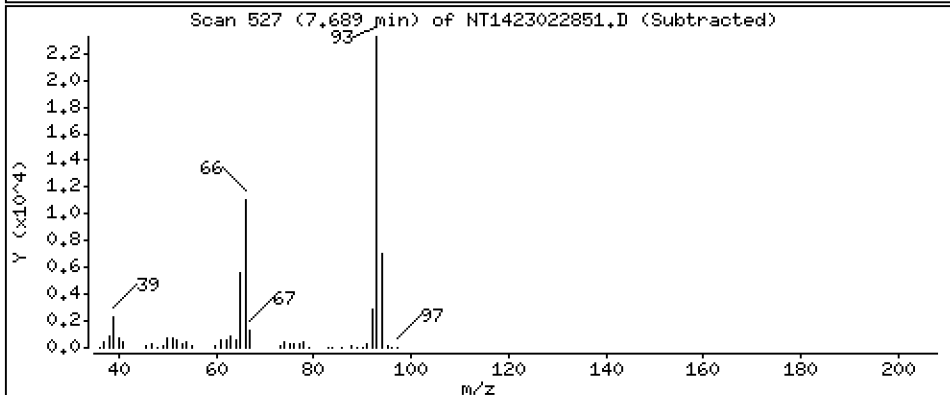
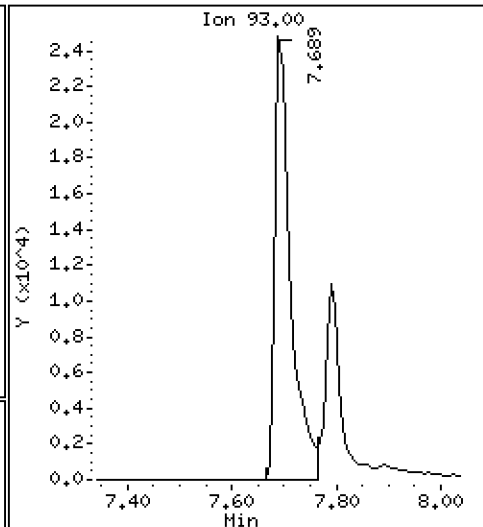
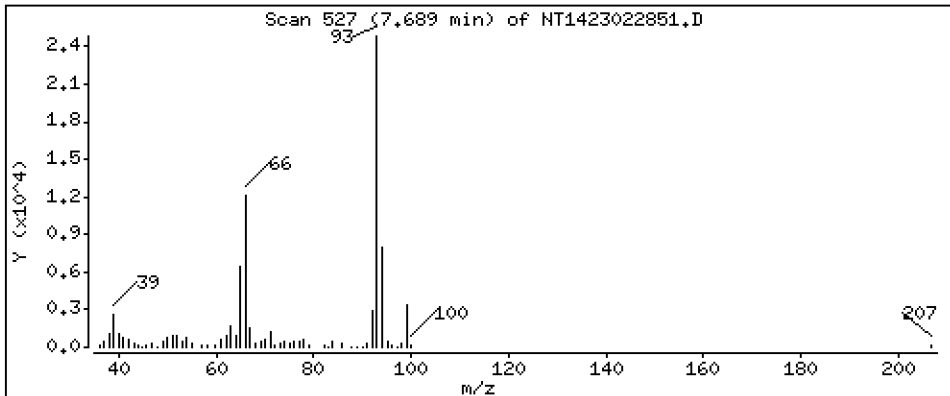
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

91 Aniline

Concentration: 0.9602 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

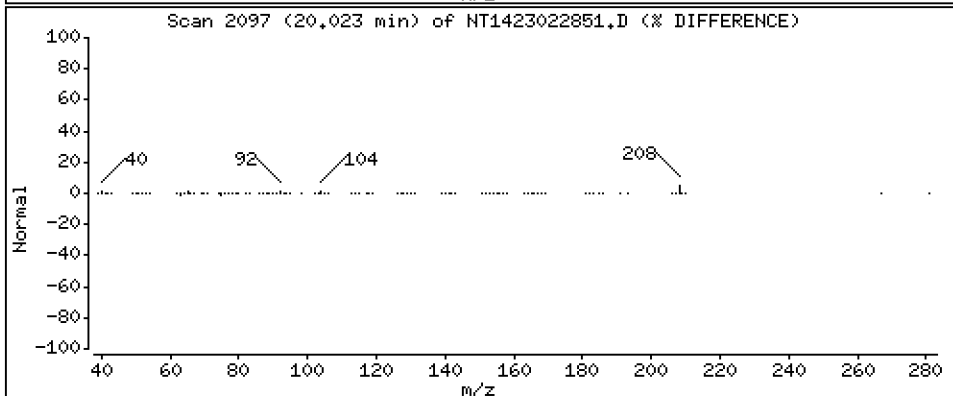
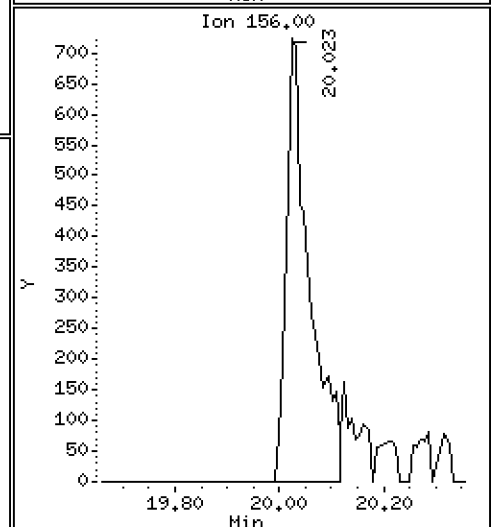
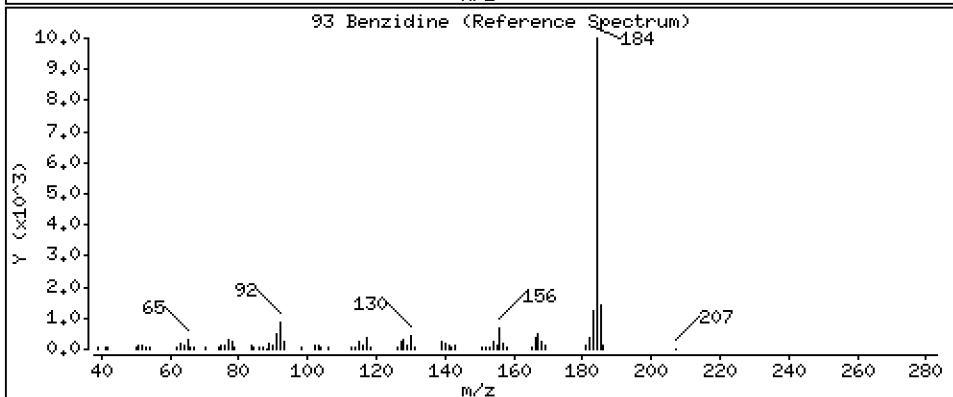
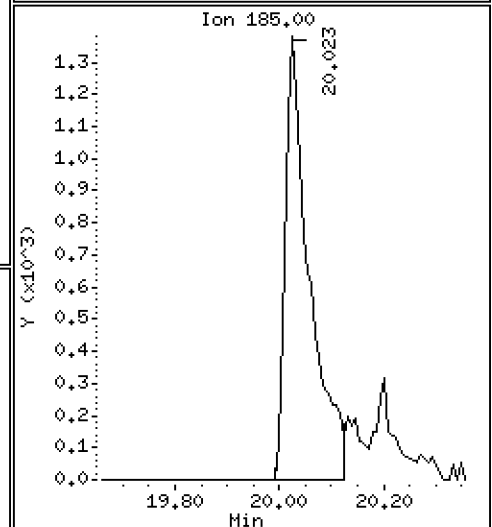
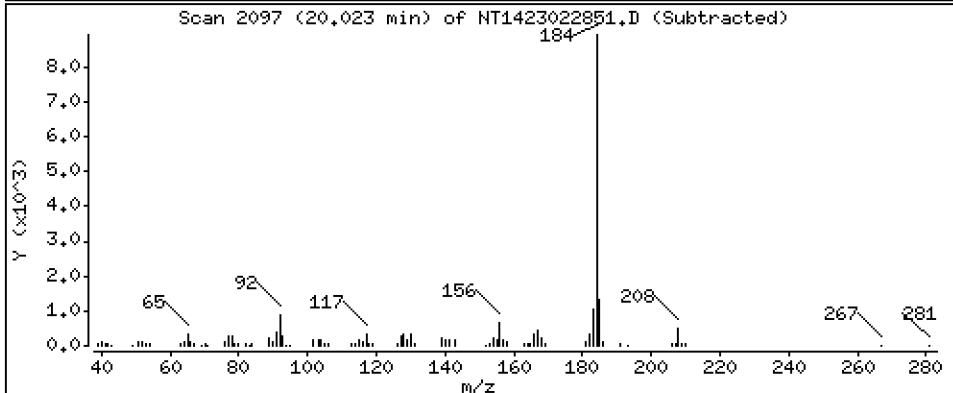
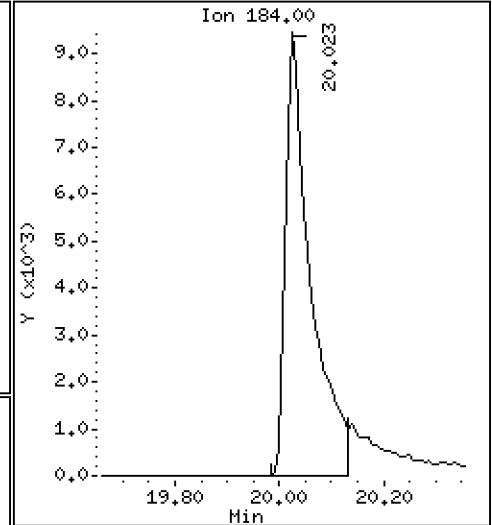
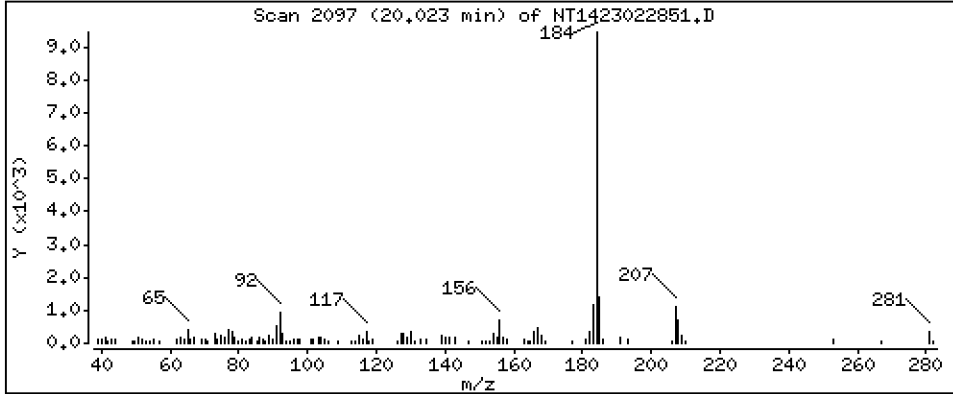
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

93 Benzidine

Concentration: 0.5720 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

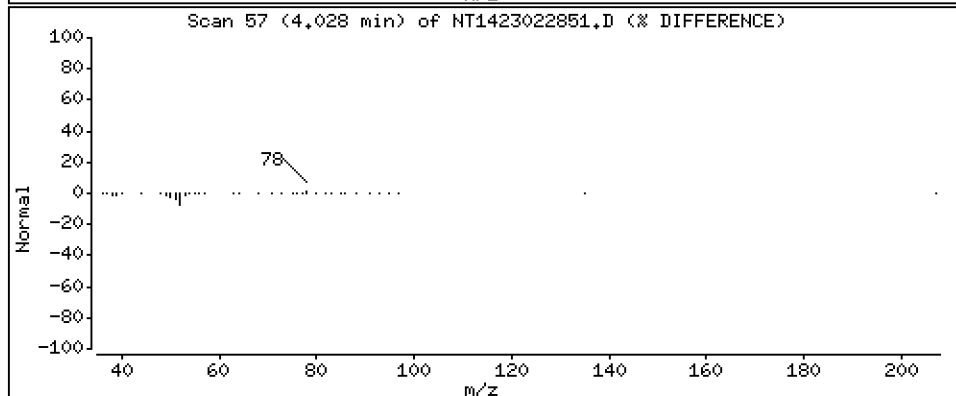
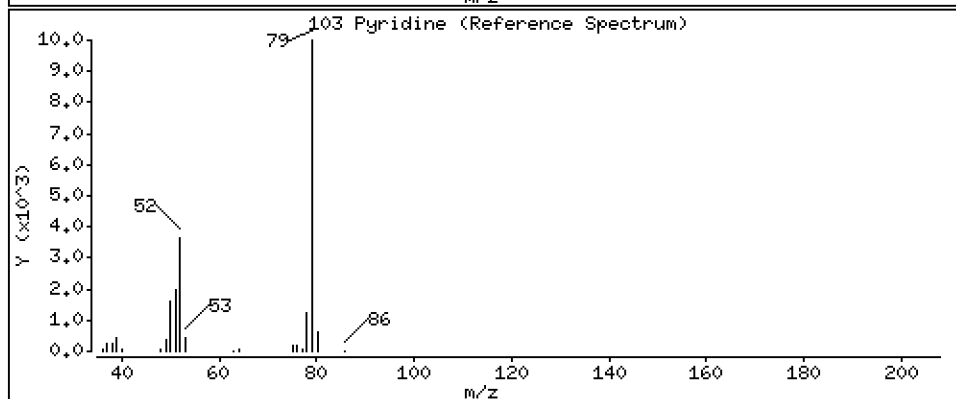
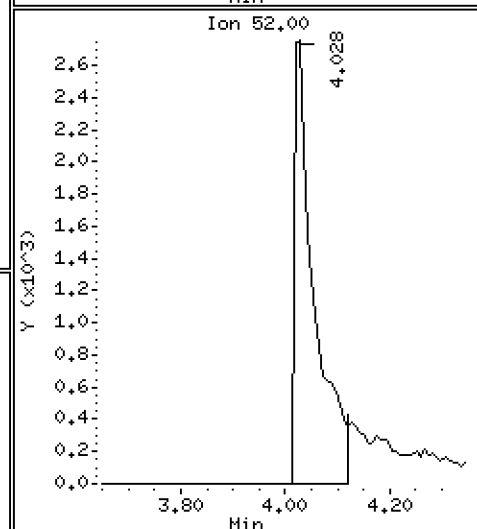
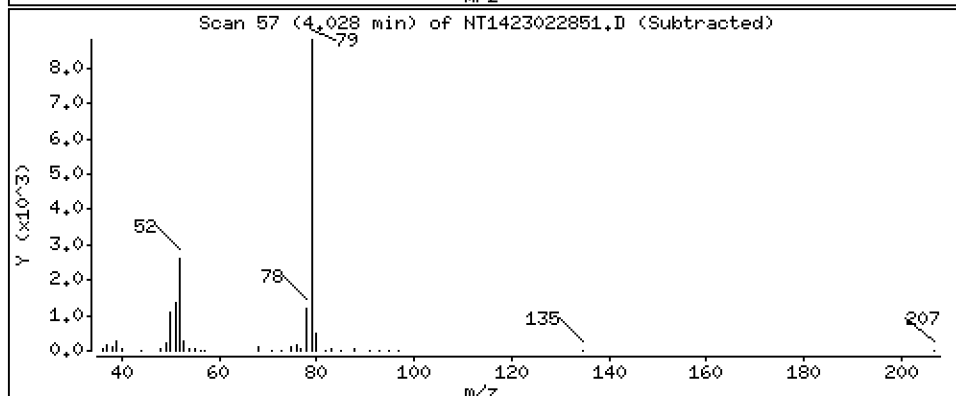
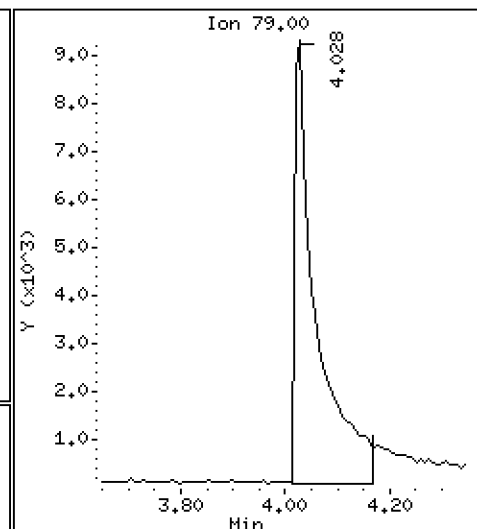
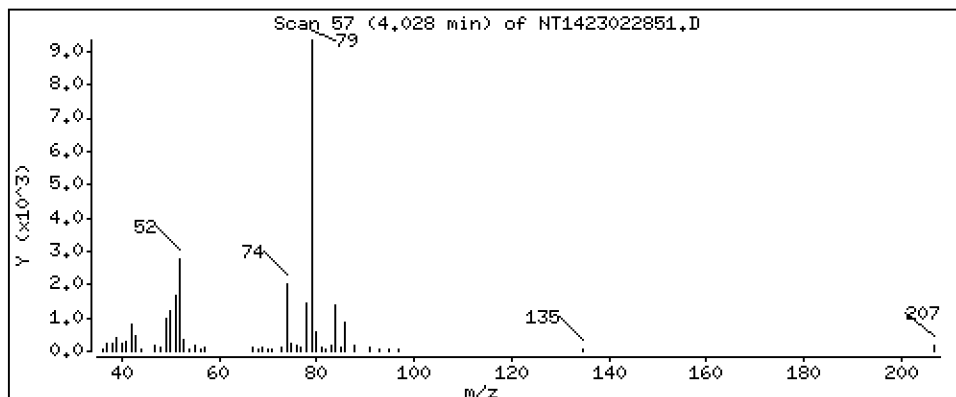
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

103 Pyridine

Concentration: 0,3993 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

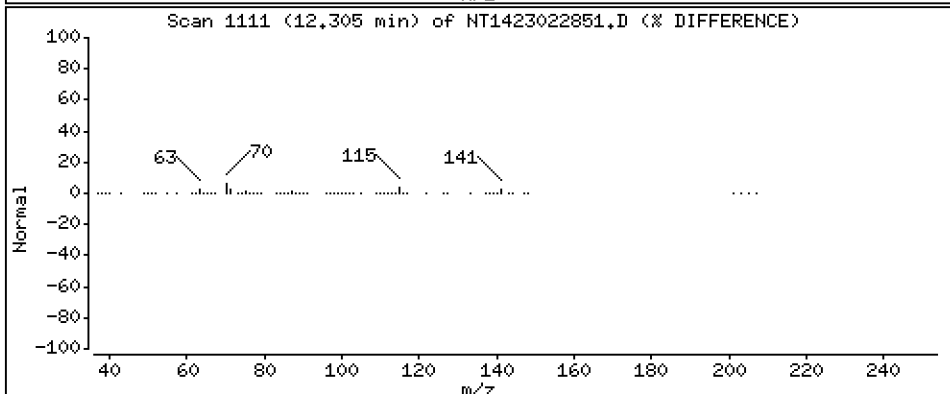
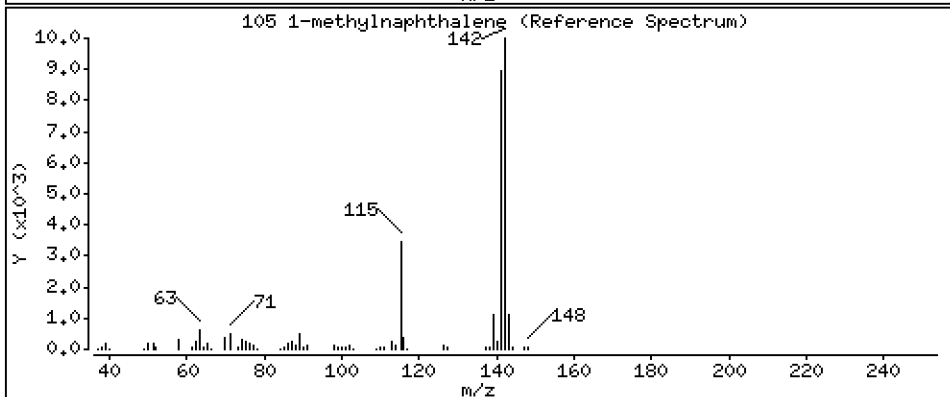
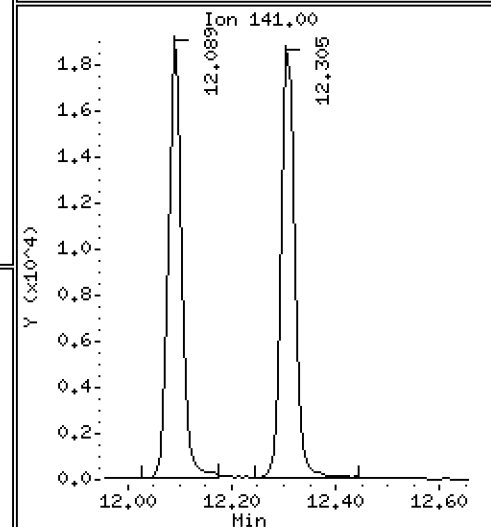
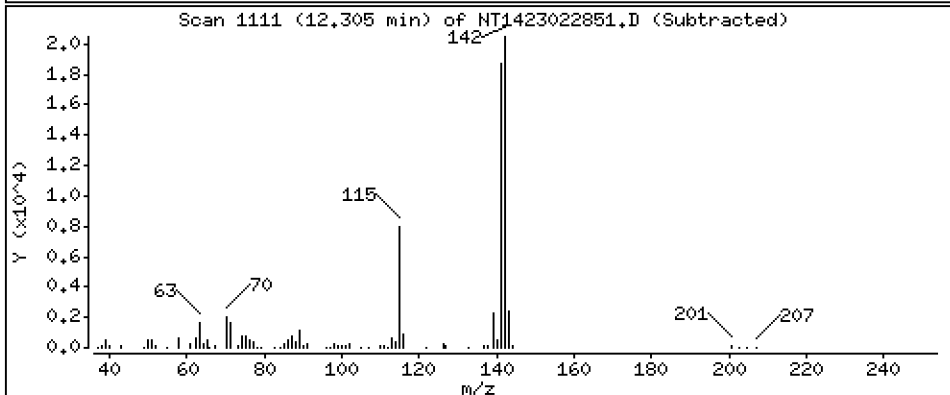
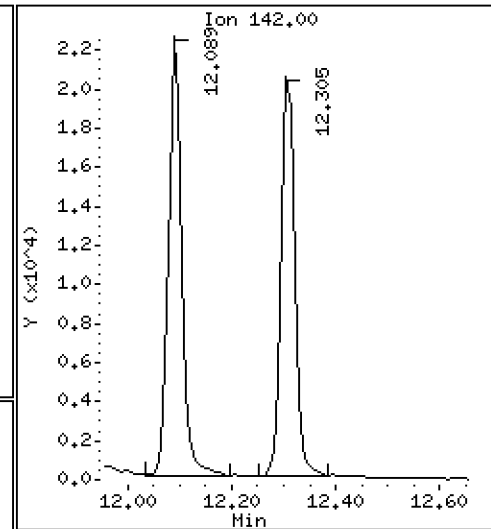
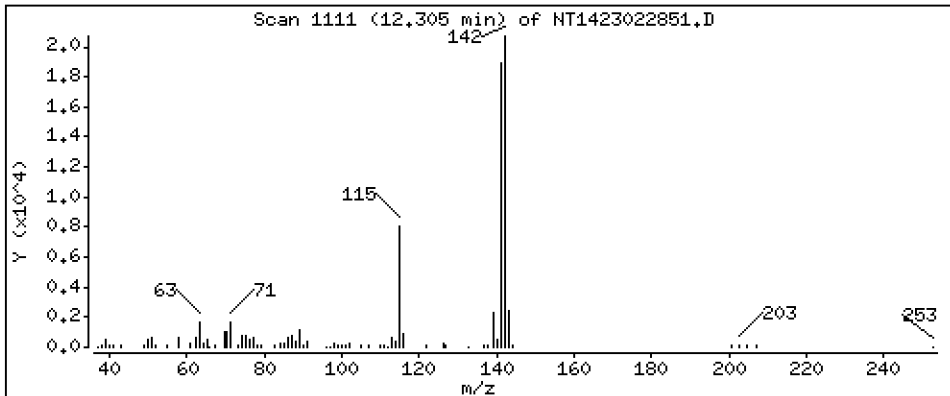
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 0,4888 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

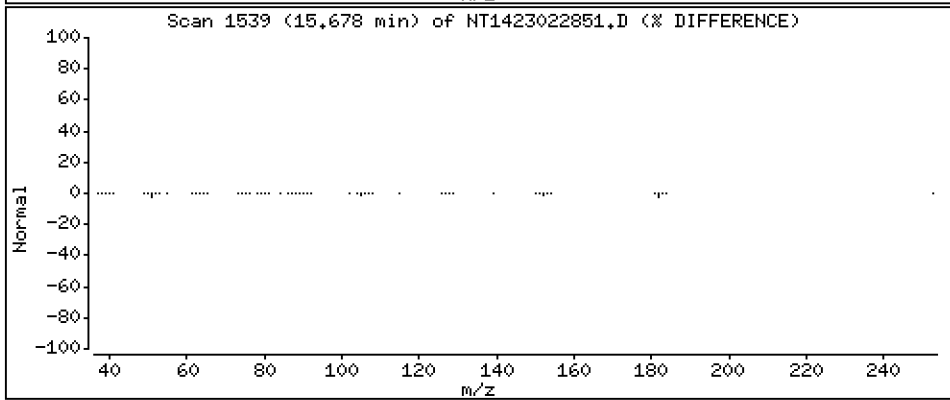
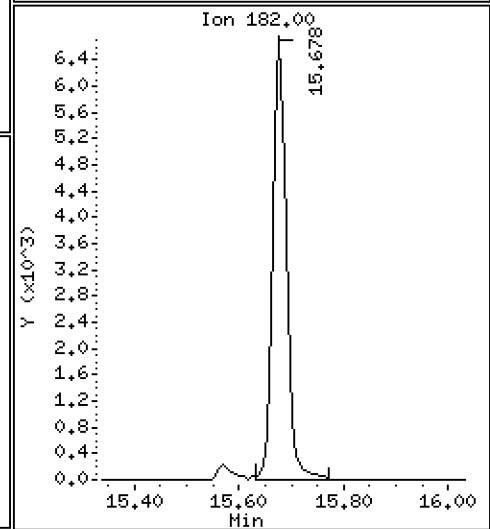
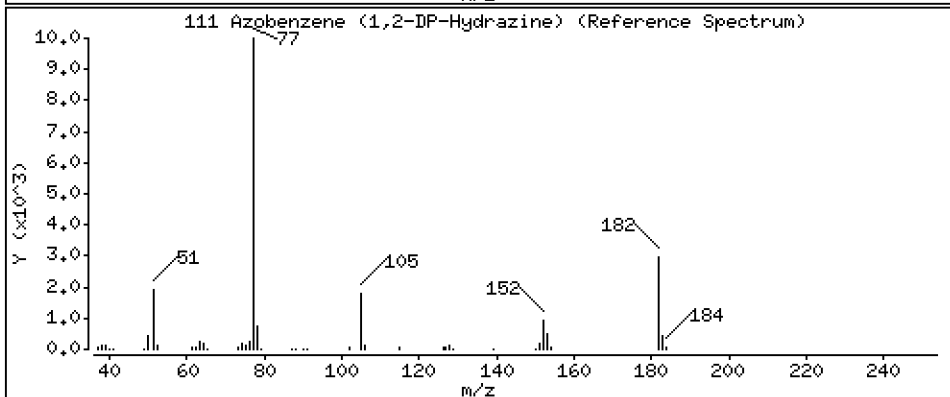
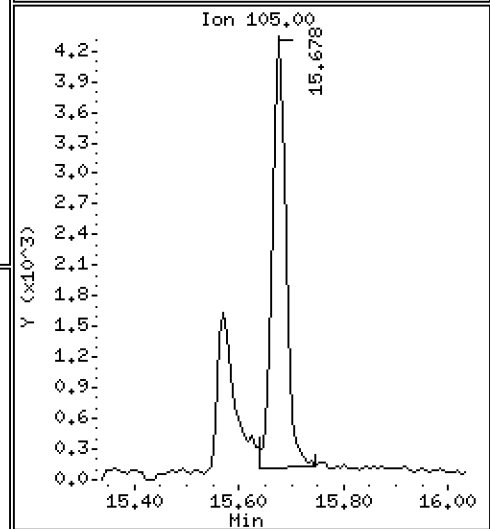
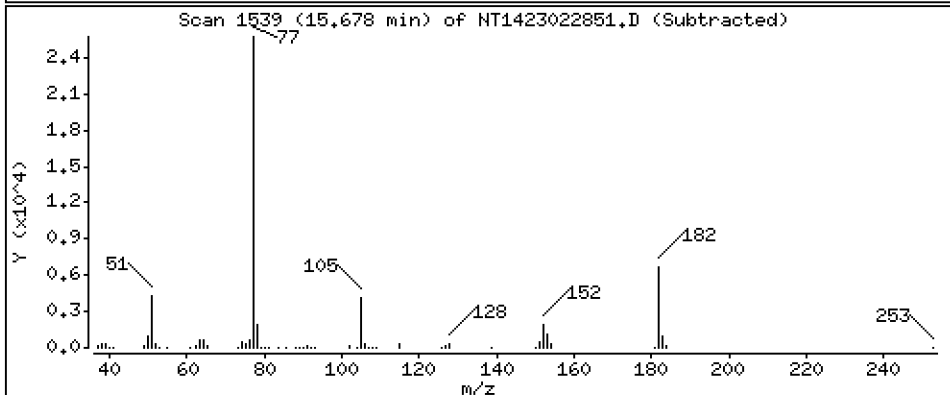
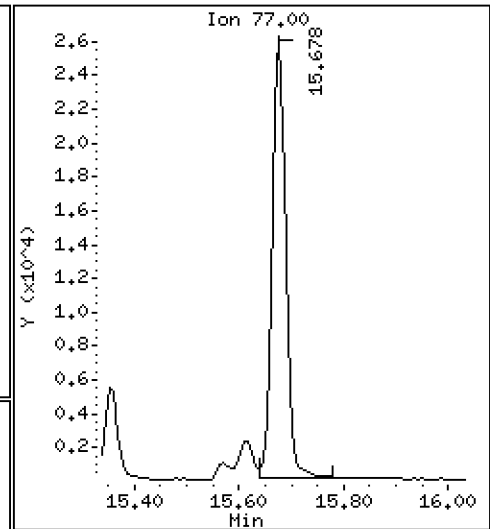
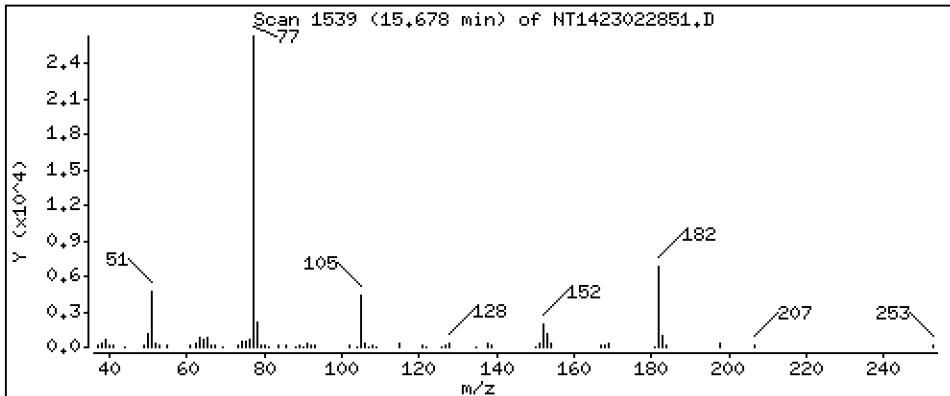
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 0,5802 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

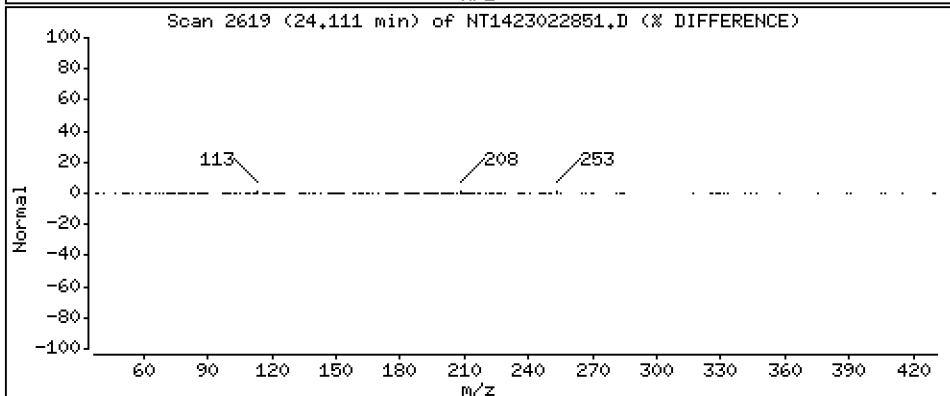
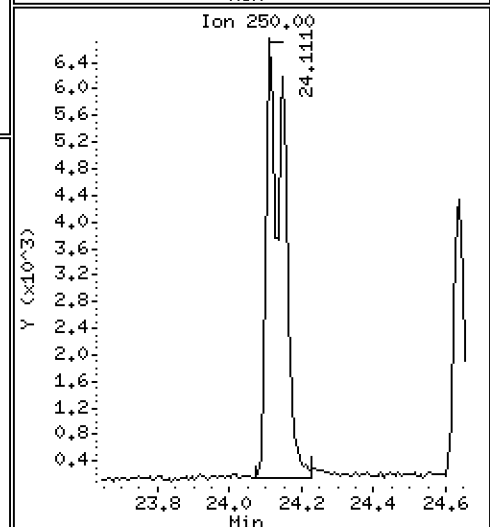
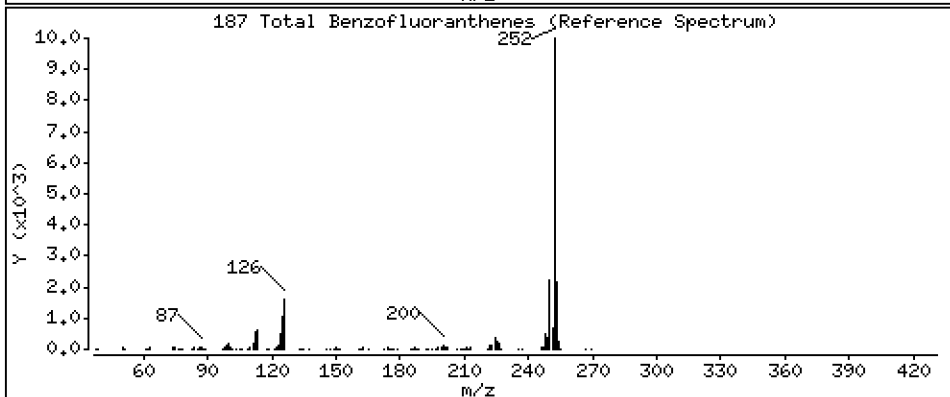
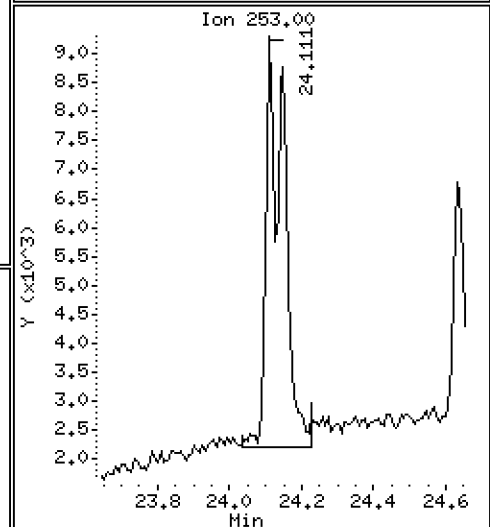
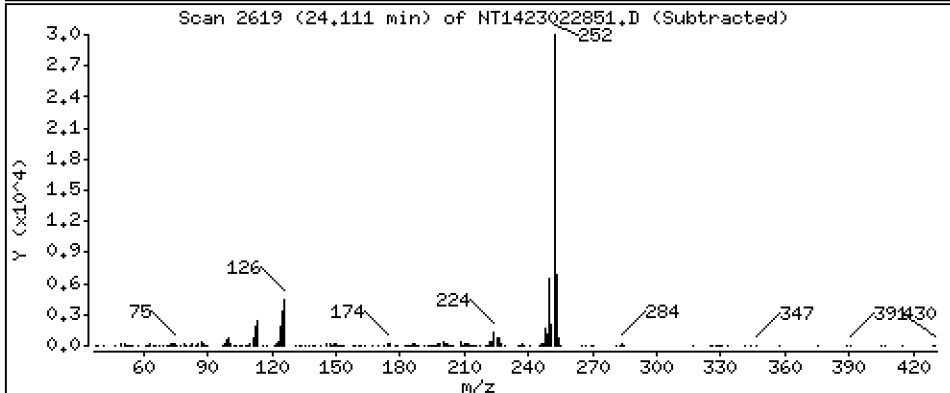
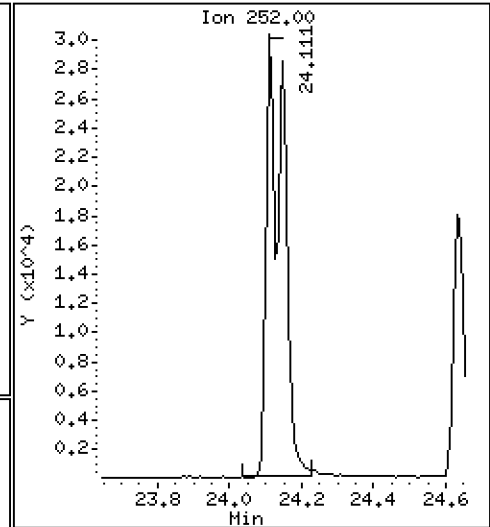
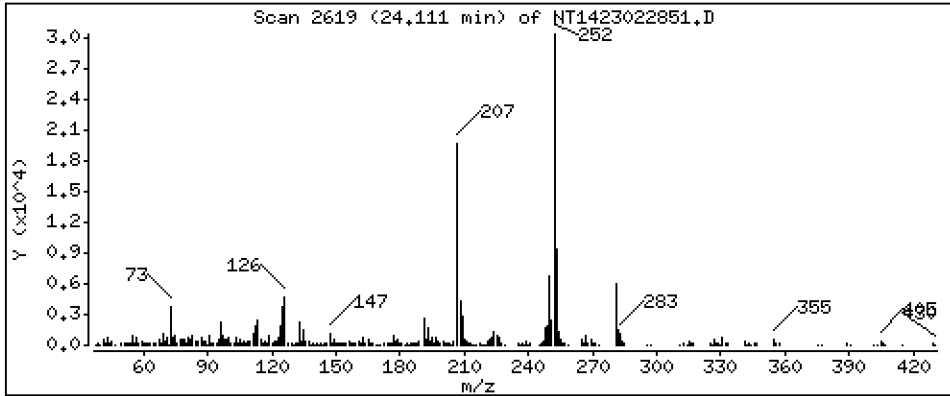
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 1,266 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

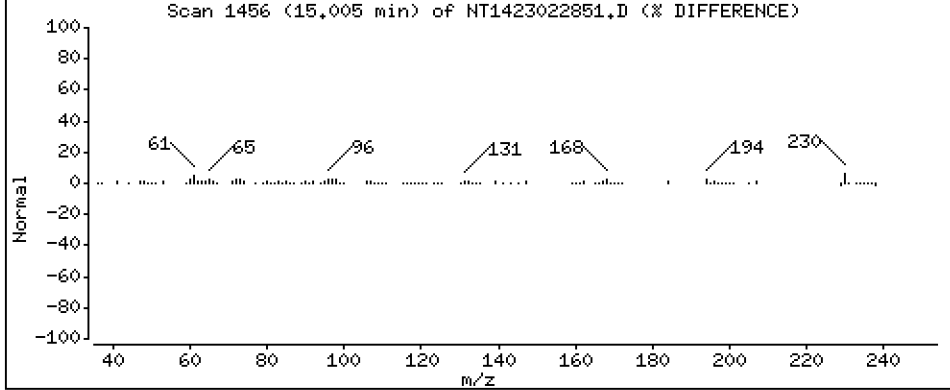
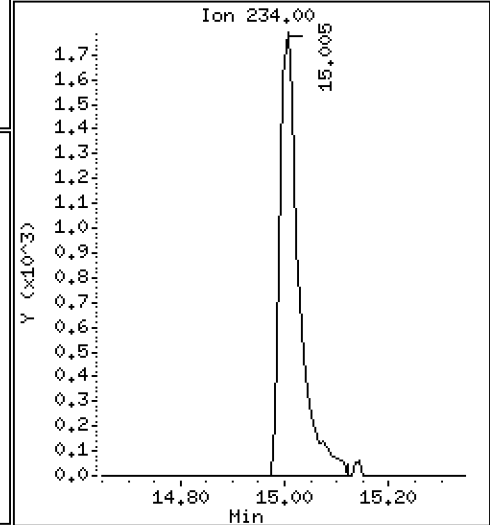
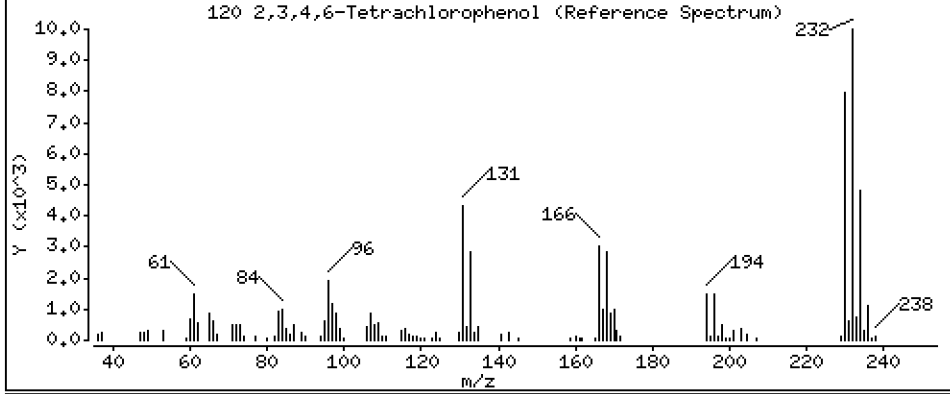
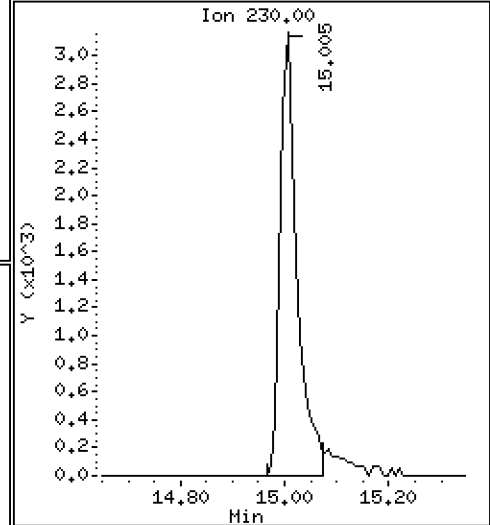
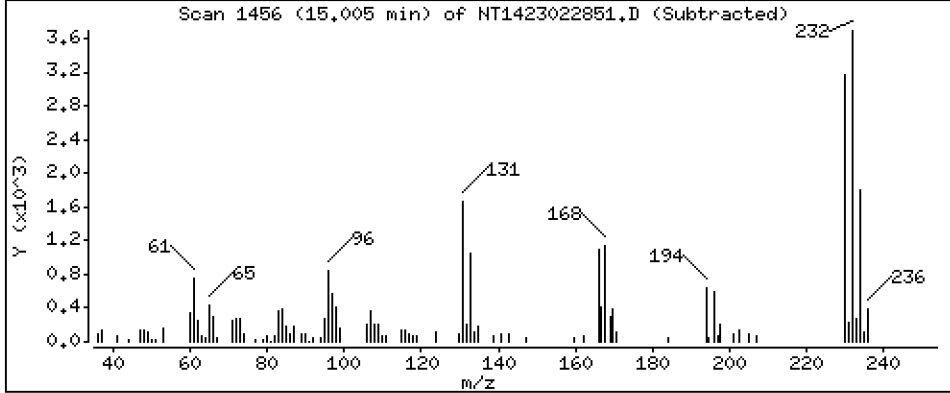
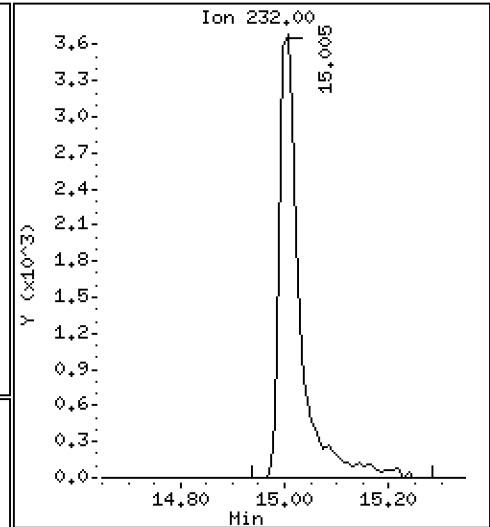
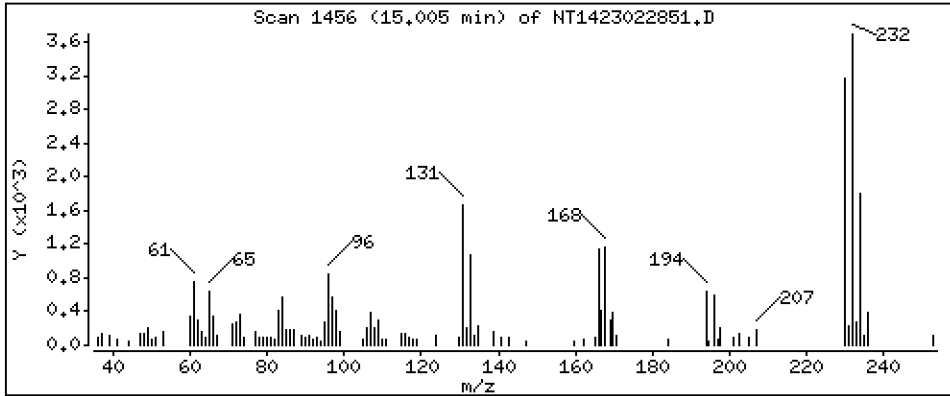
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

120 2,3,4,6-Tetrachlorophenol

Concentration: 0,3973 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230228.b\NT1423022851.D
 Lab Smp Id: SLB0374-LCV6
 Inj Date : 02-MAR-2023 07:40 MS Autotune Date: 17-MAY-2011 01:22
 Operator : JGR Inst ID: nt14.i
 Smp Info : SLB0374-LCV6
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt14.i\20230228.b\ABN.m
 Meth Date : 11-Mar-2023 13:20 van Quant Type: ISTD
 Cal Date : 28-FEB-2023 15:16 Cal File: NT1423022808.D
 Als bottle: 7
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: ICAL.sub
 Target Version: 4.14
 Processing Host: VANS-201906

| Compounds | QUANT | SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|---------------------------------|-------|-----|--------|--------|---------|----------|----------------|--------------|
| | | | | | | | ON-COLUMN | FINAL |
| | MASS | | | | | | (ug/mL) | (ug/mL) |
| \$ 1 2-Fluorophenol | 112 | | 6.074 | 6.066 | (0.740) | 20984 | 0.69459 | 0.6946 |
| \$ 2 Phenol-d5 | 99 | | 7.658 | 7.650 | (0.933) | 34390 | 0.80177 | 0.8018 |
| 3 Phenol | 94 | | 7.681 | 7.673 | (0.936) | 25539 | 0.49903 | 0.4990 |
| \$ 5 2-Chlorophenol-d4 | 132 | | 7.866 | 7.858 | (0.958) | 31022 | 0.85058 | 0.8506 |
| 4 Bis(2-Chloroethyl)ether | 93 | | 7.789 | 7.789 | (0.949) | 19564 | 0.54272 | 0.5427 |
| 6 2-Chlorophenol | 128 | | 7.889 | 7.889 | (0.961) | 20782 | 0.55129 | 0.5513 |
| 7 1,3-Dichlorobenzene | 146 | | 8.137 | 8.137 | (0.991) | 22253 | 0.53566 | 0.5357 |
| * 8 1,4-Dichlorobenzene-d4 | 152 | | 8.207 | 8.207 | (1.000) | 111416 | 4.00000 | |
| 9 1,4-Dichlorobenzene | 146 | | 8.238 | 8.238 | (1.004) | 21862 | 0.53246 | 0.5325 |
| \$ 10 1,2-Dichlorobenzene-d4 | 152 | | 8.556 | 8.556 | (1.043) | 13982 | 0.50923 | 0.5092 |
| 12 1,2-Dichlorobenzene | 146 | | 8.587 | 8.579 | (1.046) | 20682 | 0.52532 | 0.5253 |
| 11 Benzyl alcohol | 108 | | 8.626 | 8.517 | (1.051) | 6195 | 0.27759 | 0.2776 (M) |
| 14 2,2'-oxybis(1-Chloropropane) | 121 | | 8.797 | 8.797 | (1.072) | 5705 | 0.53732 | 0.5373 (M) |
| 13 2-Methylphenol | 108 | | 8.766 | 8.758 | (1.068) | 16531 | 0.51131 | 0.5113 |
| 17 Hexachloroethane | 117 | | 9.162 | 9.162 | (1.116) | 6013 | 0.38997 | 0.3900 |
| 16 N-Nitroso-di-n-propylamine | 70 | | 9.053 | 9.061 | (1.103) | 15082 | 0.61267 | 0.6127 |
| 15 4-Methylphenol | 108 | | 9.045 | 9.037 | (1.102) | 15475 | 0.41121 | 0.4112 |
| \$ 18 Nitrobenzene-d5 | 82 | | 9.301 | 9.293 | (0.873) | 21791 | 0.55223 | 0.5522 |
| 19 Nitrobenzene | 77 | | 9.332 | 9.332 | (0.876) | 20577 | 0.54266 | 0.5427 |
| 20 Isophorone | 82 | | 9.775 | 9.782 | (0.917) | 29540 | 0.49896 | 0.4990 |
| 21 2-Nitrophenol | 139 | | 9.961 | 9.953 | (0.935) | 9198 | 0.46853 | 0.4685 (M) |
| 22 2,4-Dimethylphenol | 107 | | 10.062 | 10.054 | (0.944) | 35702 | 1.03278 | 1.033 |
| 23 Bis(2-Chloroethoxy)methane | 93 | | 10.232 | 10.232 | (0.960) | 19117 | 0.50146 | 0.5015 |
| 24 Benzoic acid | 105 | | 10.657 | 10.372 | (1.000) | 14897 | 1.08744 | 1.087 (M) |
| 25 2,4-Dichlorophenol | 162 | | 10.434 | 10.418 | (0.979) | 27138 | 0.77567 | 0.7757 |
| 26 1,2,4-Trichlorobenzene | 180 | | 10.580 | 10.580 | (0.993) | 19105 | 0.48902 | 0.4890 |
| * 27 Naphthalene-d8 | 136 | | 10.657 | 10.665 | (1.000) | 403388 | 4.00000 | |
| 28 Naphthalene | 128 | | 10.696 | 10.704 | (1.004) | 56987 | 0.52962 | 0.5296 |
| 29 4-Chloroaniline | 127 | | 10.874 | 10.866 | (1.020) | 39723 | 0.86313 | 0.8631 |
| 30 Hexachlorobutadiene | 225 | | 11.074 | 11.074 | (1.039) | 10467 | 0.43906 | 0.4391 |
| 31 4-Chloro-3-methylphenol | 107 | | 11.872 | 11.856 | (1.114) | 30814 | 0.99029 | 0.9903 |
| 32 2-Methylnaphthalene | 142 | | 12.088 | 12.088 | (1.134) | 39522 | 0.49600 | 0.4960 |
| 33 Hexachlorocyclopentadiene | 237 | | 12.553 | 12.553 | (0.881) | 145 | 0.00611 | 0.006113 (M) |

| Compounds | QUANT SIG | | | | | CONCENTRATIONS | |
|-----------------------------------|-----------|--------|--------|---------|----------|----------------------|------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | ON-COLUMN (ug/mL) | FINAL (ug/mL) |
| 34 2,4,6-Trichlorophenol | 196 | 12.731 | 12.731 | (0.894) | 20334 | 0.92054 | 0.9205 |
| 35 2,4,5-Trichlorophenol | 196 | 12.823 | 12.808 | (0.900) | 22272 | 0.93253 | 0.9325 |
| § 36 2-Fluorobiphenyl | 172 | 12.885 | 12.885 | (0.904) | 46152 | 0.52438 | 0.5244 |
| 37 2-Chloronaphthalene | 162 | 13.071 | 13.071 | (0.917) | 36743 | 0.52078 | 0.5208 |
| 38 2-Nitroaniline | 65 | 13.365 | 13.365 | (0.938) | 20152 | 1.09516 | 1.095 |
| 39 Dimethylphthalate | 163 | 13.806 | 13.806 | (0.969) | 39572 | 0.55636 | 0.5564 |
| 40 Acenaphthylene | 152 | 13.930 | 13.930 | (0.978) | 58606 | 0.56609 | 0.5661 |
| 41 2,6-Dinitrotoluene | 165 | 13.930 | 13.938 | (0.978) | 17231 | 1.03380 | 1.034 |
| * 42 Acenaphthene-d10 | 164 | 14.247 | 14.247 | (1.000) | 226130 | 4.00000 | |
| 43 3-Nitroaniline | 138 | 14.224 | 14.216 | (0.998) | 13276 | 0.77714 | 0.7771 |
| 44 Acenaphthene | 153 | 14.309 | 14.309 | (1.004) | 35129 | 0.52998 | 0.5300 |
| 45 2,4-Dinitrophenol | 184 | 14.503 | 14.425 | (1.018) | 3828 | 0.36319 | 0.3632 (M) |
| 46 Dibenzofuran | 168 | 14.634 | 14.642 | (1.027) | 53071 | 0.50319 | 0.5032 |
| 47 4-Nitrophenol | 109 | 14.711 | 14.595 | (1.033) | 7005 | 0.82883 | 0.8288 (M) |
| 48 2,4-Dinitrotoluene | 165 | 14.734 | 14.734 | (1.034) | 21675 | 0.90332 | 0.9033 |
| 50 Diethylphthalate | 149 | 15.253 | 15.260 | (1.071) | 37412 | 0.56248 | 0.5625 |
| 49 Fluorene | 166 | 15.345 | 15.345 | (1.077) | 48211 | 0.54253 | 0.5425 |
| 51 4-Chlorophenyl-phenylether | 204 | 15.361 | 15.361 | (1.078) | 23681 | 0.50085 | 0.5008 |
| 52 4-Nitroaniline | 138 | 15.500 | 15.484 | (1.088) | 12486 | 0.73733 | 0.7373 |
| 53 4,6-Dinitro-2-methylphenol | 198 | 15.569 | 15.569 | (0.902) | 9300 | 0.68046 | 0.6805 |
| 54 N-Nitrosodiphenylamine | 169 | 15.615 | 15.615 | (0.905) | 29279 | 0.56672 | 0.5667 |
| § 55 2,4,6-Tribromophenol | 330 | 15.885 | 15.885 | (1.115) | 7056 | 0.58013 | 0.5801 |
| 56 4-Bromophenyl-phenylether | 248 | 16.348 | 16.348 | (0.948) | 11488 | 0.50578 | 0.5058 |
| 57 Hexachlorobenzene | 284 | 16.642 | 16.642 | (0.965) | 12906 | 0.51681 | 0.5168 |
| 58 Pentachlorophenol | 266 | 17.036 | 17.013 | (0.987) | 6504 | 0.55274 | 0.5527 (M) |
| * 59 Phenanthrene-d10 | 188 | 17.253 | 17.253 | (1.000) | 411120 | 4.00000 | |
| 60 Phenanthrene | 178 | 17.300 | 17.299 | (1.003) | 56582 | 0.51736 | 0.5174 |
| 61 Anthracene | 178 | 17.392 | 17.392 | (1.008) | 54458 | 0.52671 | 0.5267 |
| 62 Carbazole | 167 | 17.756 | 17.748 | (1.029) | 45380 | 0.50079 | 0.5008 |
| 63 Di-n-butylphthalate | 149 | 18.599 | 18.599 | (1.078) | 60175 | 0.51476 | 0.5148 |
| 64 Fluoranthene | 202 | 19.721 | 19.729 | (0.882) | 60173 | 0.46602 | 0.4660 |
| 65 Pyrene | 202 | 20.154 | 20.154 | (0.901) | 63458 | 0.46614 | 0.4661 |
| § 66 Terphenyl-d14 | 244 | 20.479 | 20.479 | (0.916) | 48418 | 0.46193 | 0.4619 |
| 67 Butylbenzylphthalate | 149 | 21.447 | 21.447 | (0.959) | 24820 | 0.51573 | 0.5157 |
| 68 Benzo(a)anthracene | 228 | 22.346 | 22.353 | (0.999) | 62629 | 0.54936 | 0.5494 |
| * 69 Chrysene-d12 | 240 | 22.369 | 22.376 | (1.000) | 340331 | 4.00000 | |
| 70 3,3'-Dichlorobenzidine | 252 | 22.330 | 22.338 | (0.998) | 59762 | 1.83563 | 1.836 |
| 71 Chrysene | 228 | 22.415 | 22.423 | (1.002) | 58976 | 0.53821 | 0.5382 |
| 72 bis(2-Ethylhexyl)phthalate | 149 | 22.500 | 22.500 | (0.958) | 33247 | 0.45398 | 0.4540 |
| * 134 Di-n-octylphthalate-d4 | 153 | 23.476 | 23.483 | (1.000) | 479730 | 4.00000 | |
| 73 Di-n-octylphthalate | 149 | 23.484 | 23.491 | (1.000) | 63248 | 0.50073 | 0.5007 |
| 74 Benzo(b)fluoranthene | 252 | 24.111 | 24.118 | (0.975) | 45890 | 0.57643 | 0.5764 |
| 75 Benzo(k)fluoranthene | 252 | 24.149 | 24.149 | (0.977) | 57910 | 0.67426 | 0.6743 |
| 76 Benzo(a)pyrene | 252 | 24.629 | 24.637 | (0.996) | 36970 | 0.54128 | 0.5413 |
| * 77 Perylene-d12 | 264 | 24.722 | 24.730 | (1.000) | 240961 | 4.00000 | |
| 78 Indeno(1,2,3-cd)pyrene | 276 | 26.824 | 26.808 | (1.085) | 19630 | 0.22832 | 0.2283 |
| 79 Dibenzo(a,h)anthracene | 278 | 26.839 | 26.824 | (1.086) | 18262 | 0.25008 | 0.2501 |
| 80 Benzo(g,h,i)perylene | 276 | 27.422 | 27.414 | (1.109) | 13685 | 0.18250 | 0.1825 |
| 90 N-Nitrosodimethylamine | 74 | 3.996 | 3.996 | (0.487) | 17862 | 0.78275 | 0.7828 |
| 91 Aniline | 93 | 7.689 | 7.689 | (0.937) | 50583 | 0.96024 | 0.9602 |
| 93 Benzidine | 184 | 20.023 | 20.007 | (0.895) | 31561 | 0.57203 | 0.5720 |
| 103 Pyridine | 79 | 4.027 | 3.996 | (0.491) | 26951 | 0.39928 | 0.3993 |
| 105 1-methylnaphthalene | 142 | 12.305 | 12.305 | (1.155) | 35860 | 0.48884 | 0.4888 |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77 | 15.677 | 15.685 | (1.100) | 44301 | 0.58017 | 0.5802 |

| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|-------------------------------|-----------|--------|--------|---------|----------|----------------------|------------------|
| | | | | | | ON-COLUMN (ug/mL) | FINAL (ug/mL) |
| 187 Total Benzofluoranthenes | 252 | 24.111 | 24.149 | (0.975) | 98590 | 1.26597 | 1.266 |
| 120 2,3,4,6-Tetrachlorophenol | 232 | 15.005 | 14.997 | (1.053) | 10119 | 0.39729 | 0.3973 (M) |

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 02-MAR-2023
 Lab File ID: NT1423022851.D Calibration Time: 05:52
 Lab Smp Id: SLB0374-LCV6
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: JGR
 Method File: \\target\share\chem3\nt14.i\20230228.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|--------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 116519 | 58260 | 233038 | 111416 | -4.38 |
| 27 Naphthalene-d8 | 429090 | 214545 | 858180 | 403388 | -5.99 |
| 42 Acenaphthene-d10 | 250637 | 125319 | 501274 | 226130 | -9.78 |
| 59 Phenanthrene-d10 | 458117 | 229059 | 916234 | 411120 | -10.26 |
| 69 Chrysene-d12 | 393468 | 196734 | 786936 | 340331 | -13.50 |
| 134 Di-n-octylphthala | 572636 | 286318 | 1145272 | 479730 | -16.22 |
| 77 Perylene-d12 | 283320 | 141660 | 566640 | 240961 | -14.95 |

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

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

REVIEW SUMMARY FOR FILE - NT1423022851.D

Lab ID: SLB0374-LCV6
nt14.i, ABN.m, 02-MAR-2023 07:40

RT CO-ELUTION COMPOUNDS

13.931 Acenaphthylene and 2,6-Dinitrotoluene

Quant Method: ICAL

RRT CHECK

| RRT | CCV RRT | DELTA | COMPOUND |
|-------|---------|--------|-------------------|
| 1.051 | 1.038 | 0.0132 | Benzyl alcohol |
| 1.000 | 0.972 | 0.0275 | Benzoic acid |
| 1.018 | 1.012 | 0.0054 | 2,4-Dinitrophenol |
| 1.033 | 1.024 | 0.0082 | 4-Nitrophenol |

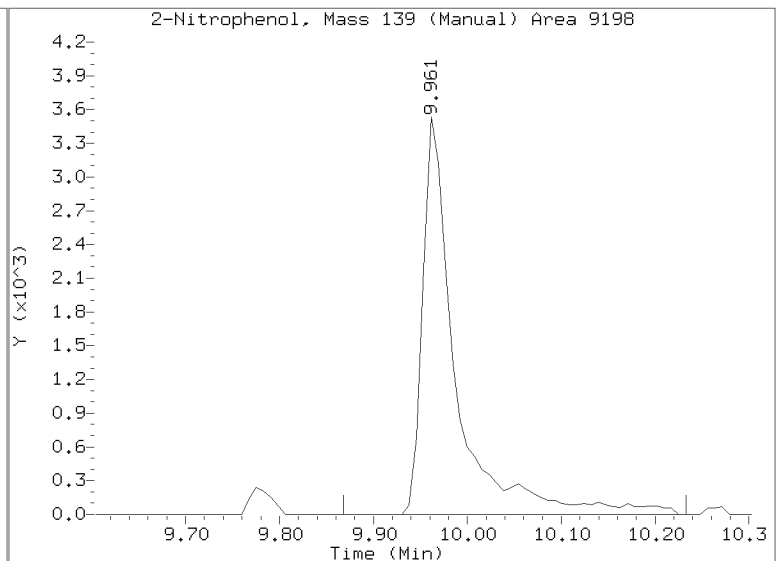
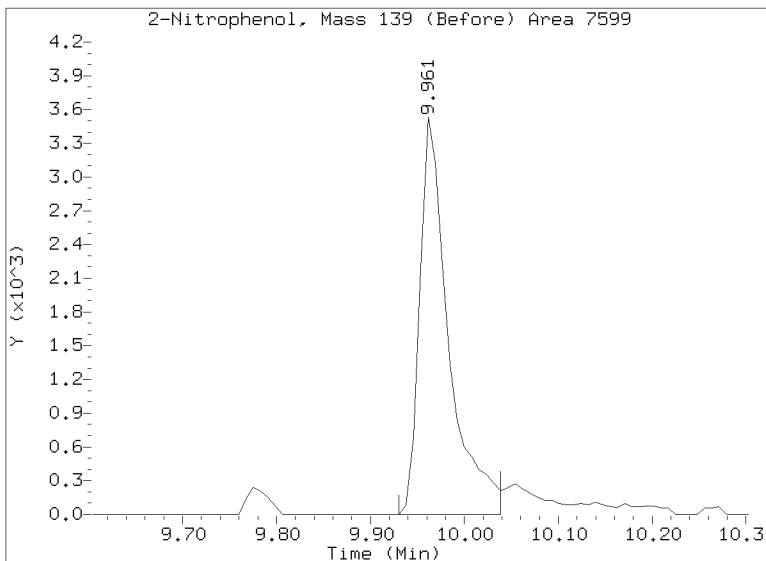
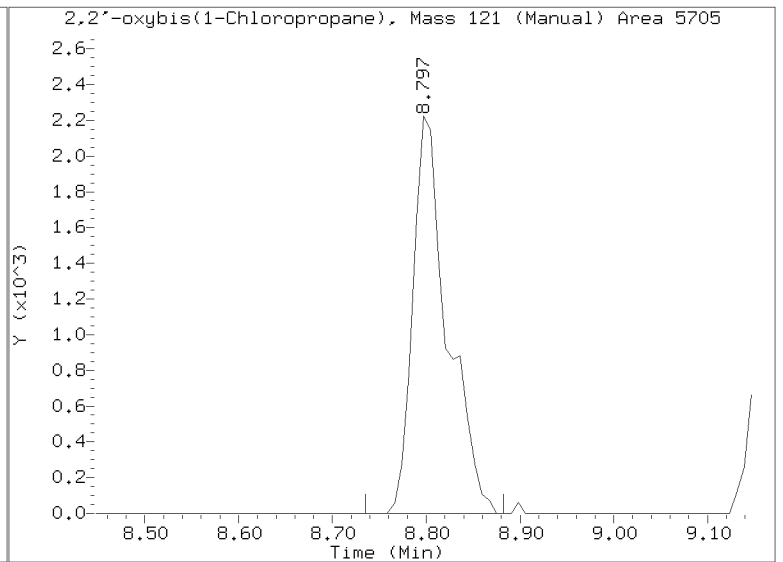
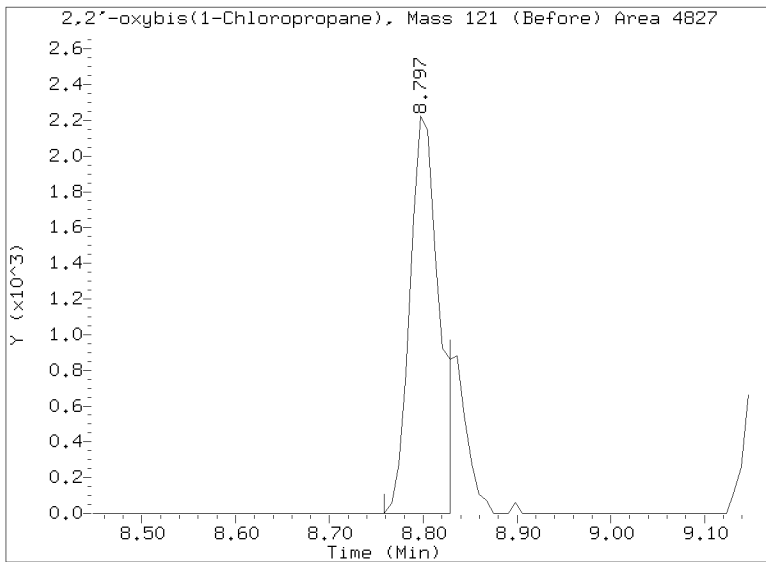
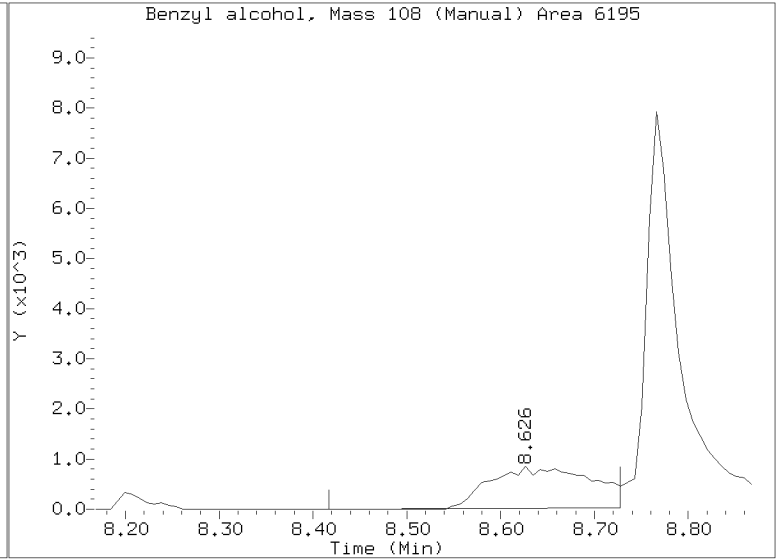
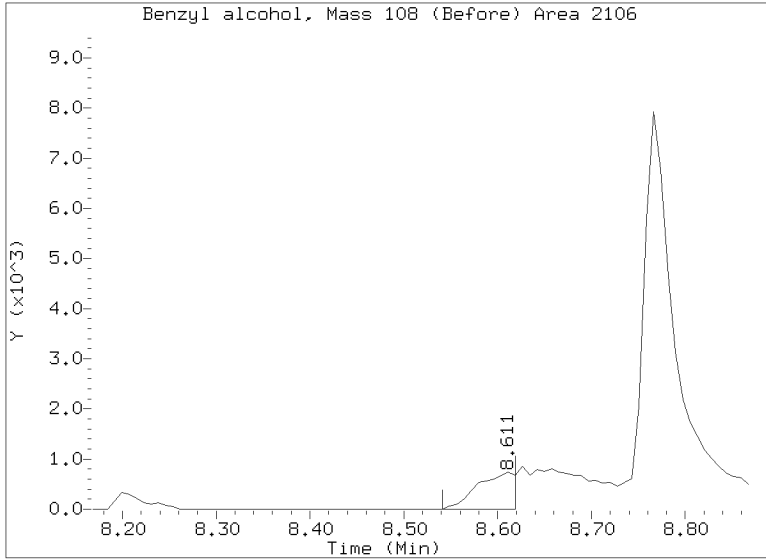
RRT check based on Ccal File: NT1423022848.D

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

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

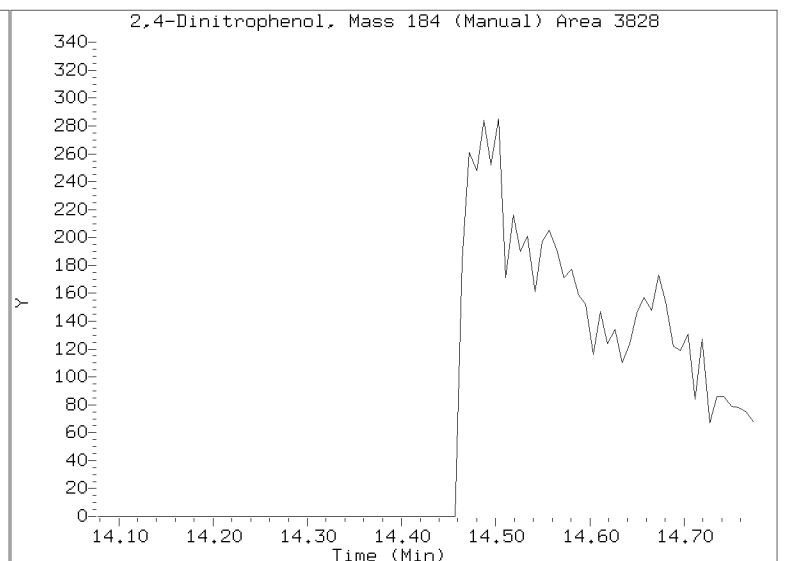
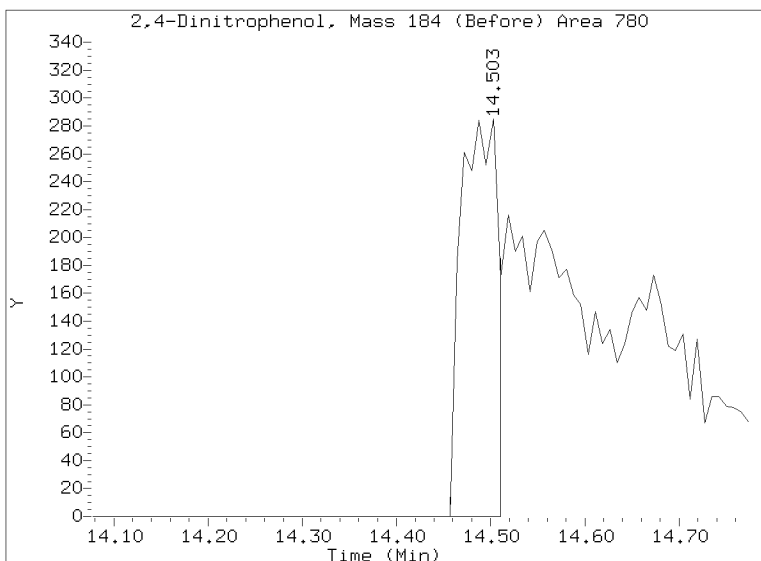
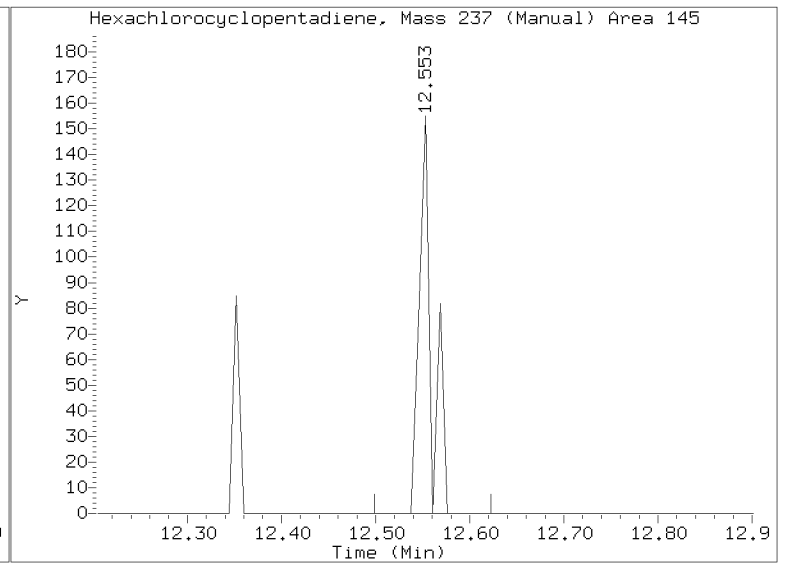
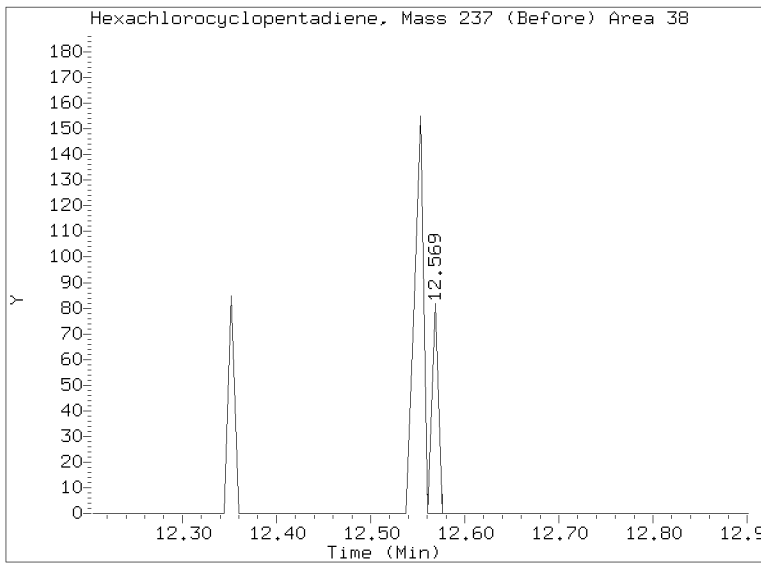
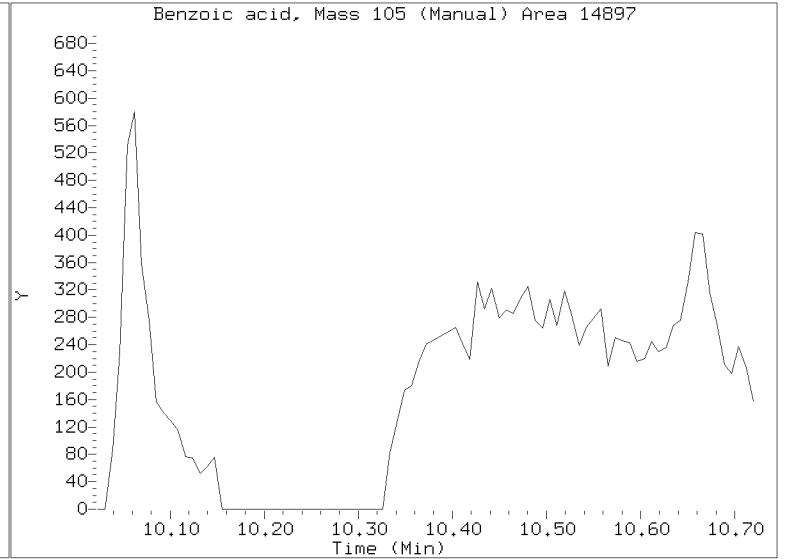
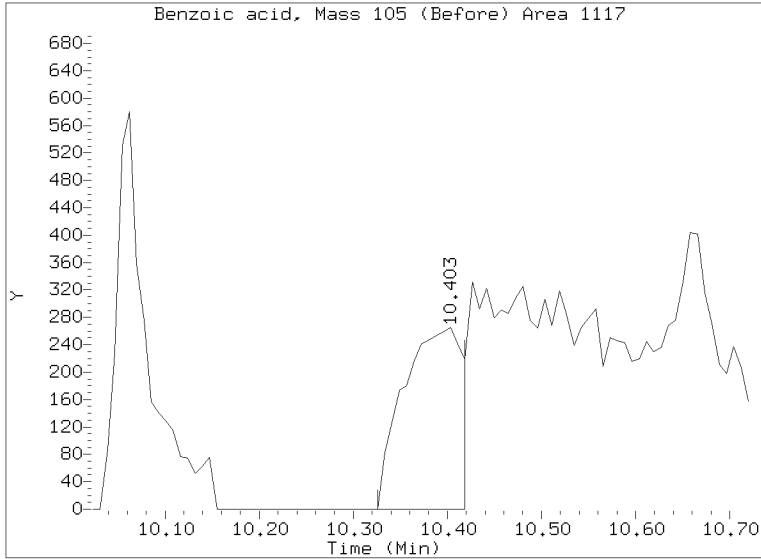
Quant Ion Manual Peak Adjustment Report

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Injection Date: 02-MAR-2023 07:40
Lab ID:SLB0374-LCV6 Client ID:
Report Date: 03/14/2023 08:43



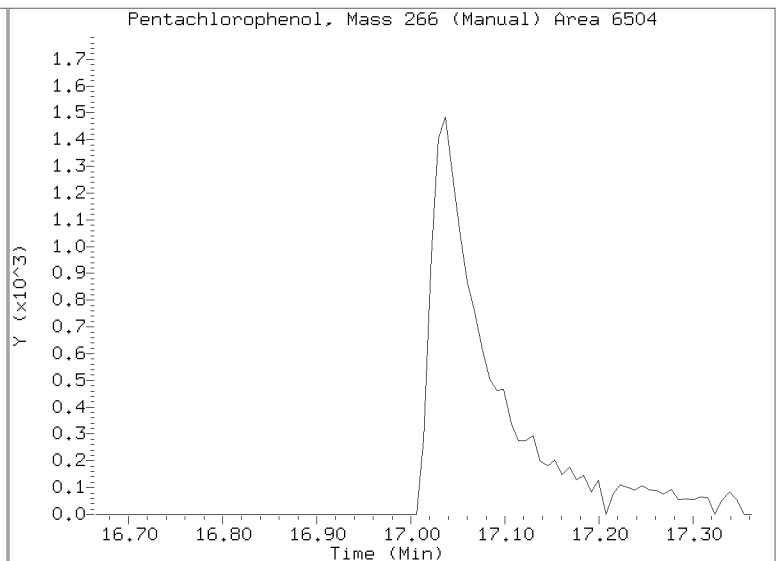
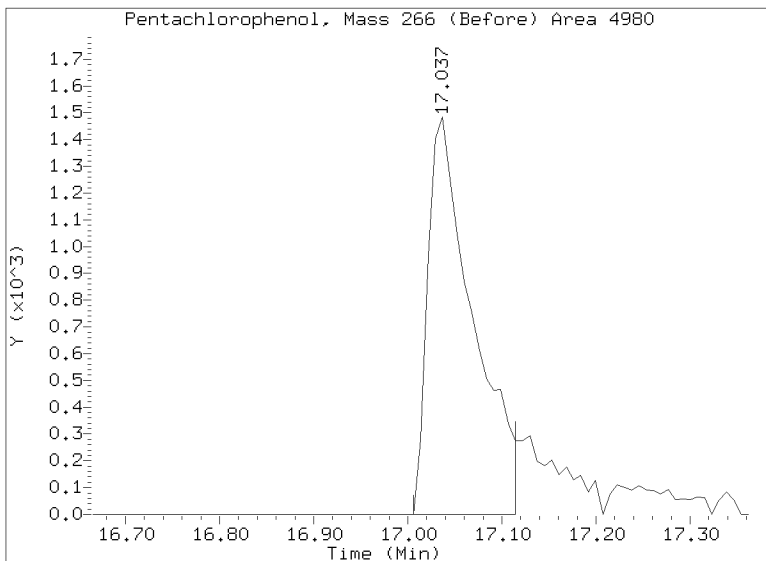
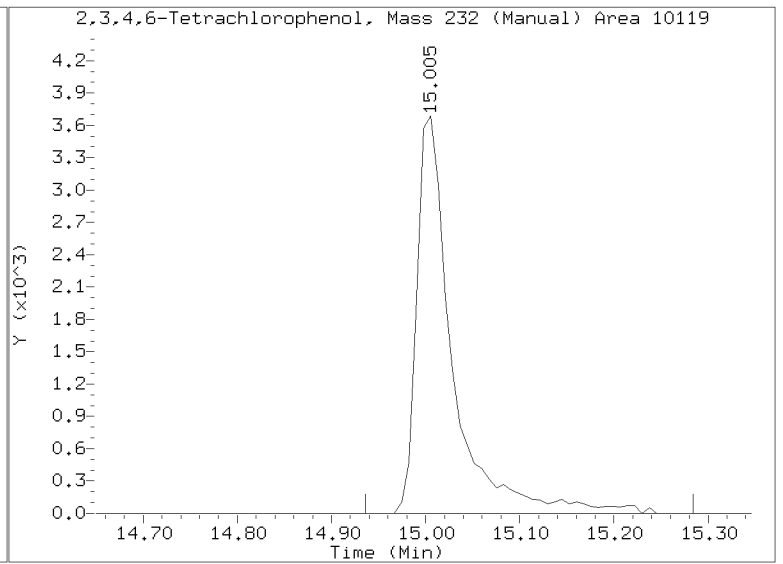
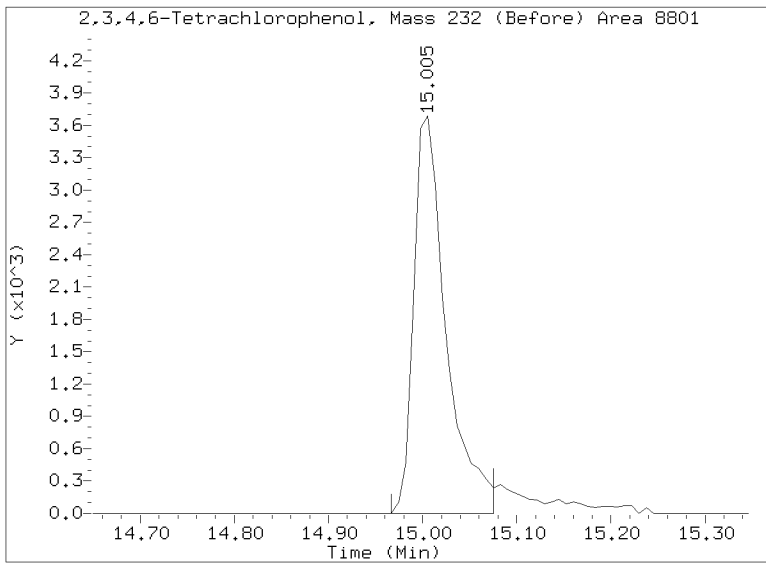
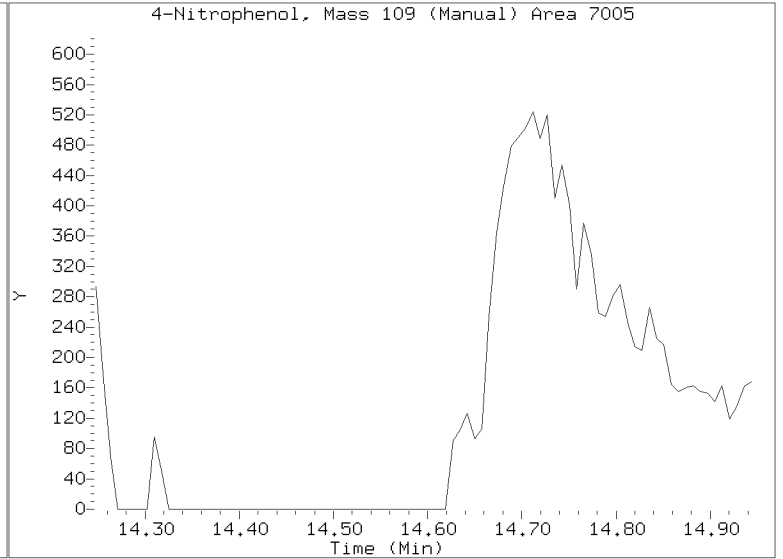
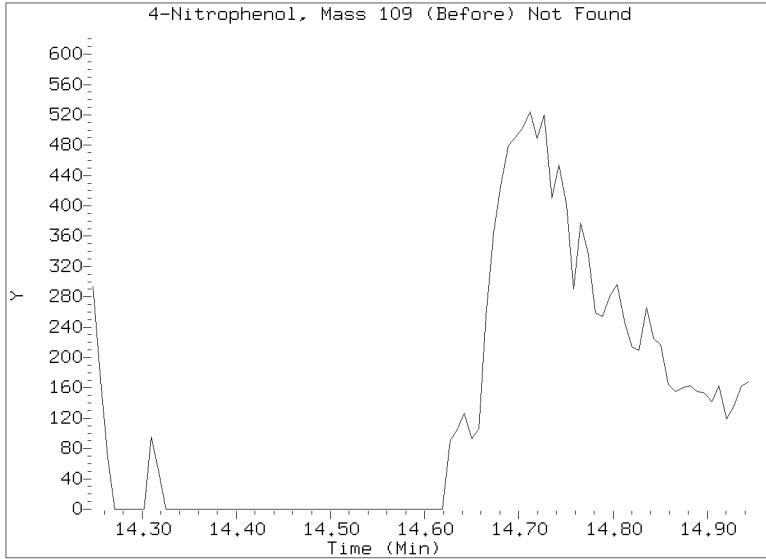
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230228.b/NT1423022851.D
Injection Date: 02-MAR-2023 07:40
Lab ID:SLB0374-LCV6 Client ID:
Report Date: 03/14/2023 08:43



Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230228.b/NT1423022851.D
Injection Date: 02-MAR-2023 07:40
Lab ID: SLB0374-LCV6 Client ID:
Report Date: 03/14/2023 08:43





**LOW-CONCENTRATION
CALIBRATION VERIFICATION
EPA 8270E**

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Calibration: GC00046

Laboratory ID: SLC0397-LCV1

Sequence: SLC0397

Standard ID: K011105

| ANALYTE | EXPECTED (ug/mL) | FOUND (ug/mL) | % DRIFT | QC LIMIT |
|-----------------------------|---------------------|------------------|---------|----------|
| Phenol | 0.20000 | 0.2 | -6.4 | 50.00 |
| 4-Methylphenol | 0.20000 | 0.2 | -11.5 | 50.00 |
| Naphthalene | 0.20000 | 0.2 | 5.1 | 50.00 |
| 2-Methylnaphthalene | 0.20000 | 0.2 | 6.8 | 50.00 |
| Acenaphthylene | 0.20000 | 0.2 | -0.9 | 50.00 |
| Dimethylphthalate | 0.20000 | 0.2 | 1.9 | 50.00 |
| Acenaphthene | 0.20000 | 0.2 | -1.0 | 50.00 |
| Dibenzofuran | 0.20000 | 0.2 | 1.7 | 50.00 |
| Fluorene | 0.20000 | 0.2 | 5.3 | 50.00 |
| Phenanthrene | 0.20000 | 0.2 | 3.4 | 50.00 |
| Anthracene | 0.20000 | 0.2 | -9.0 | 50.00 |
| Fluoranthene | 0.20000 | 0.2 | -8.4 | 50.00 |
| Pyrene | 0.20000 | 0.2 | -8.5 | 50.00 |
| Butylbenzylphthalate | 0.20000 | 0.2 | -8.2 | 50.00 |
| Benzo(a)anthracene | 0.20000 | 0.2 | 0.3 | 50.00 |
| Chrysene | 0.20000 | 0.2 | 2.7 | 50.00 |
| bis(2-Ethylhexyl)phthalate | 0.20000 | 0.2 | -17.4 | 50.00 |
| Benzo(a)fluoranthene, Total | 0.40000 | 0.4 | 2.1 | 50.00 |
| Benzo(a)pyrene | 0.20000 | 0.2 | 2.4 | 50.00 |
| Indeno(1,2,3-cd)pyrene | 0.20000 | 0.2 | -1.4 | 50.00 |
| Dibenzo(a,h)anthracene | 0.20000 | 0.2 | 3.4 | 50.00 |
| Benzo(g,h,i)perylene | 0.20000 | 0.2 | 2.5 | 50.00 |
| 2-Fluorophenol | 0.30000 | 0.302 | 0.6 | 50.00 |
| Phenol-d5 | 0.30000 | 0.275 | -8.2 | 50.00 |
| 2-Chlorophenol-d4 | 0.30000 | 0.297 | -1.1 | 50.00 |
| 1,2-Dichlorobenzene-d4 | 0.20000 | 0.210 | 5.1 | 50.00 |
| Nitrobenzene-d5 | 0.20000 | 0.173 | -13.4 | 50.00 |
| 2-Fluorobiphenyl | 0.20000 | 0.206 | 3.0 | 50.00 |
| 2,4,6-Tribromophenol | 0.30000 | 0.256 | -14.6 | 50.00 |



**LOW-CONCENTRATION
CALIBRATION VERIFICATION
EPA 8270E**

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Calibration: GC00046

Laboratory ID: SLC0397-LCV1

Sequence: SLC0397

Standard ID: K011105

| | | | | |
|-----------------|---------|-------|-----|-------|
| p-Terphenyl-d14 | 0.20000 | 0.202 | 0.9 | 50.00 |
|-----------------|---------|-------|-----|-------|

* Values outside of QC limits

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Date: 22-MAR-2023 18:59

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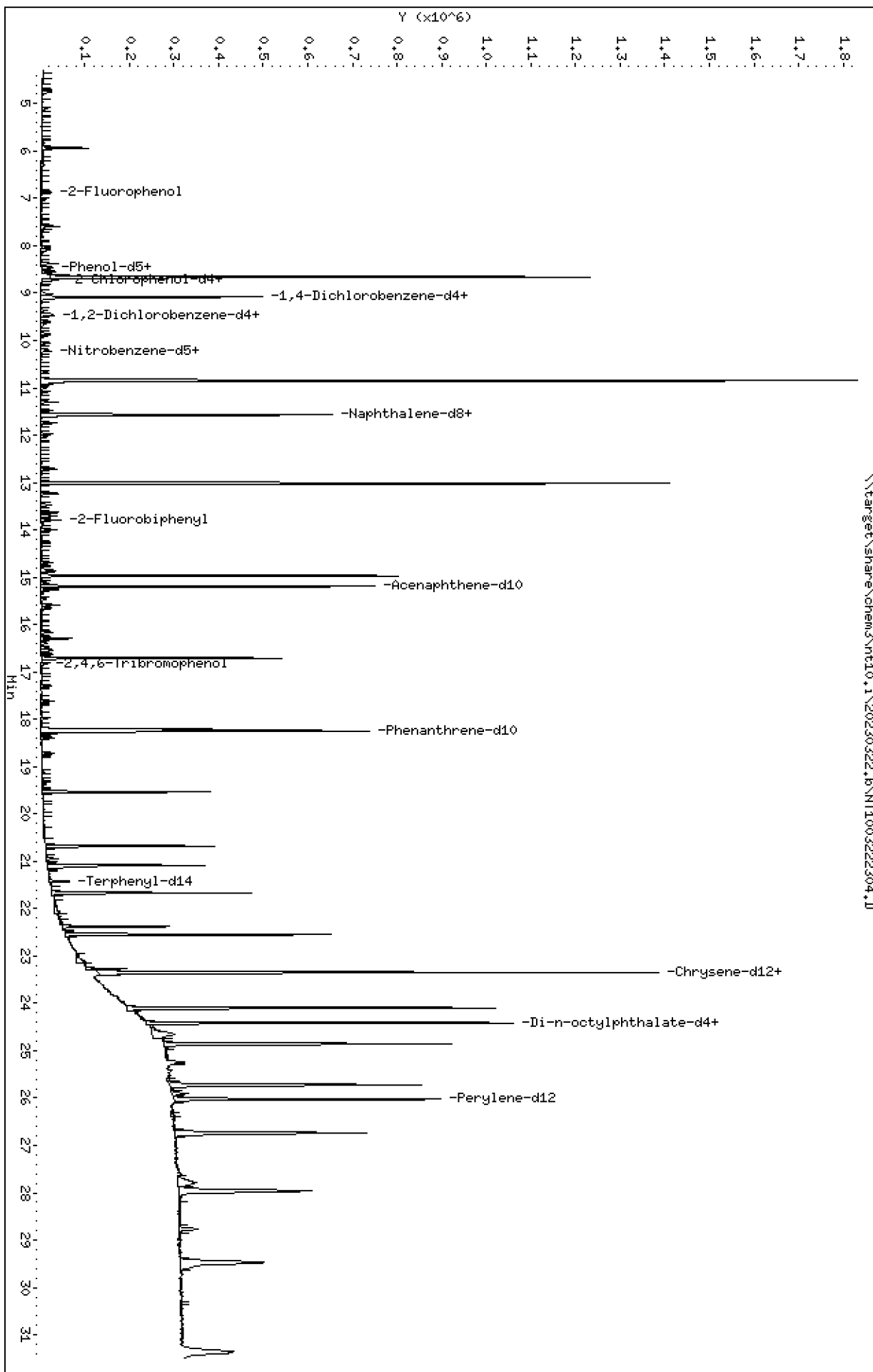
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Instrument: nt10,1

Operator: VTS

Column diameter: 0.25

Page 1



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

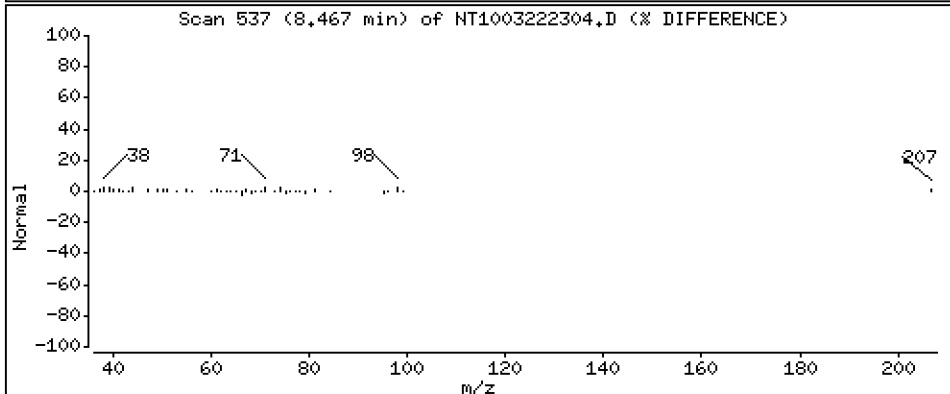
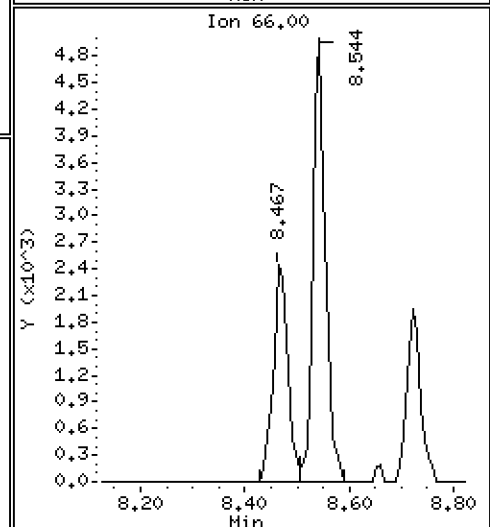
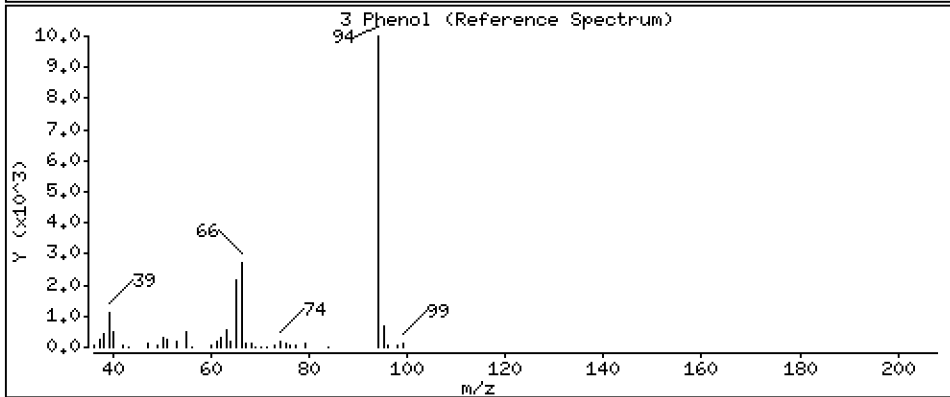
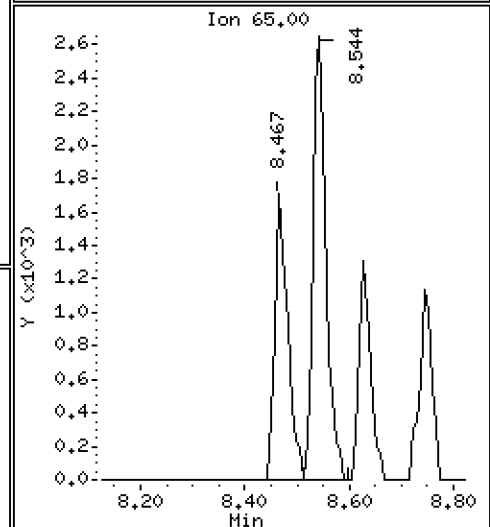
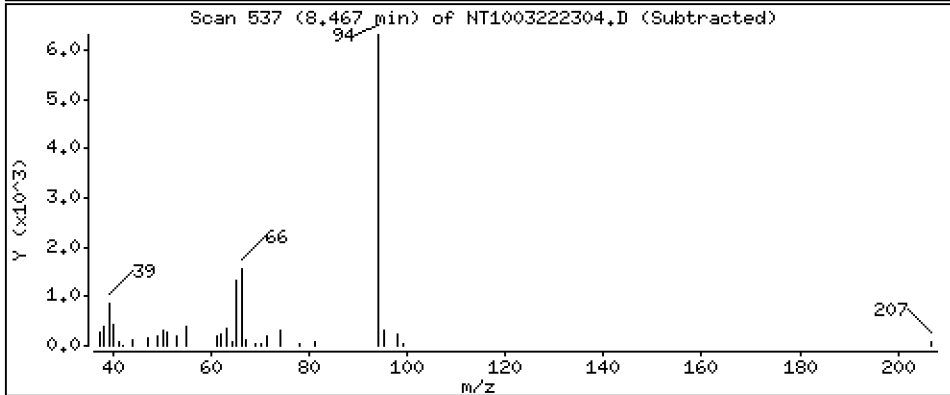
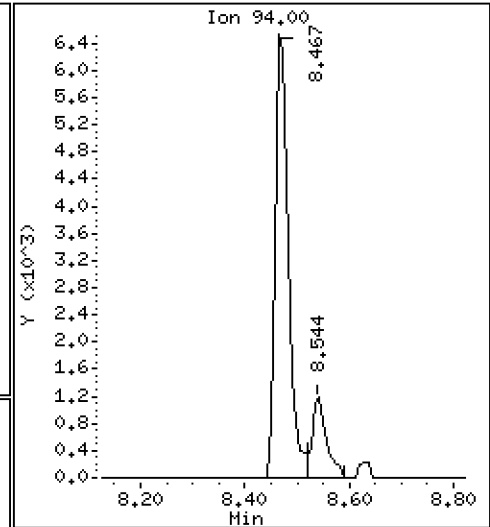
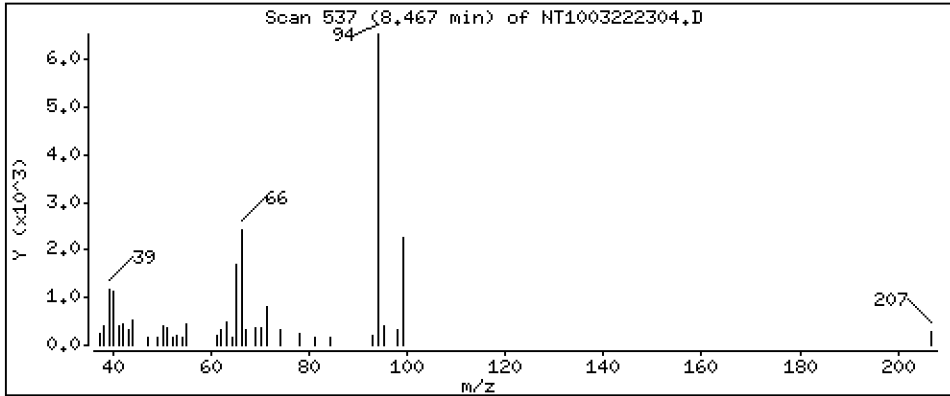
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

3 Phenol

Concentration: 0.1871 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

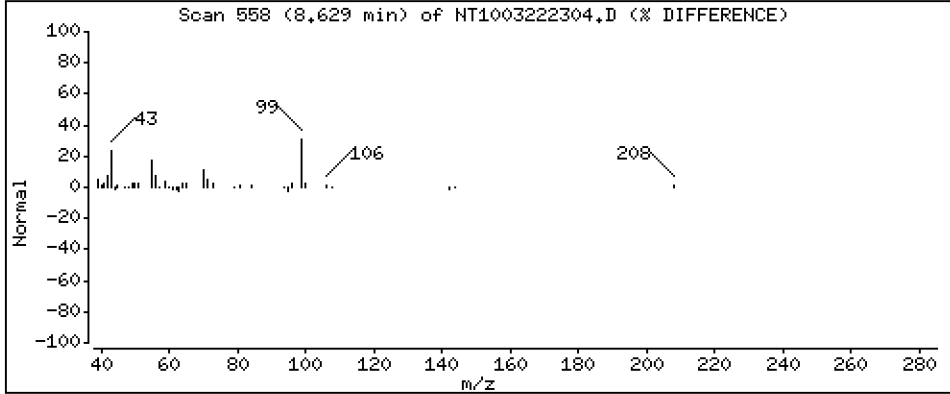
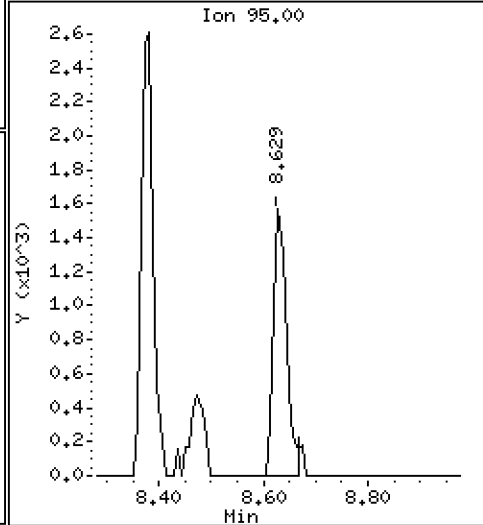
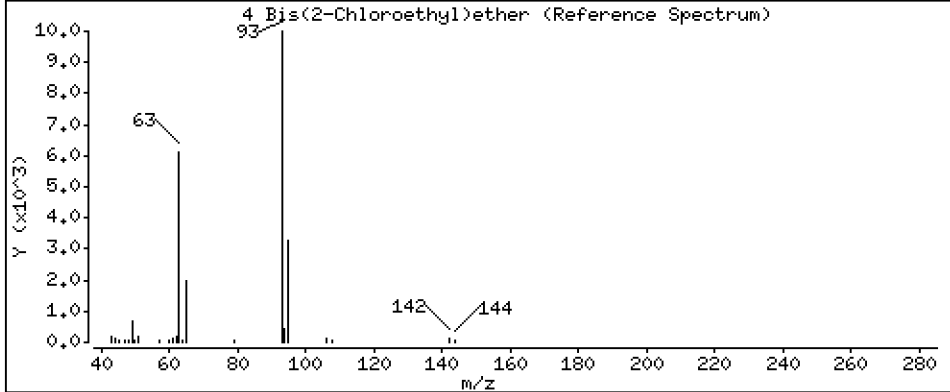
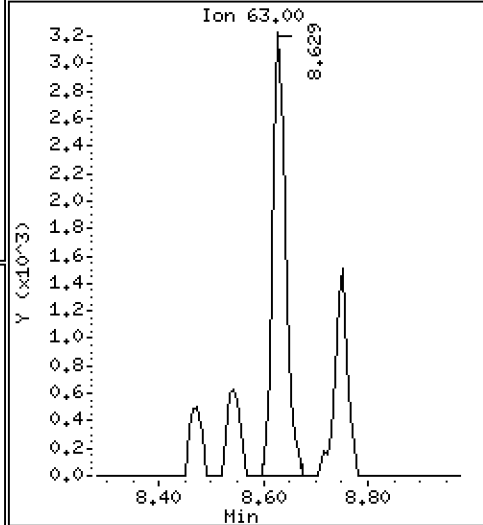
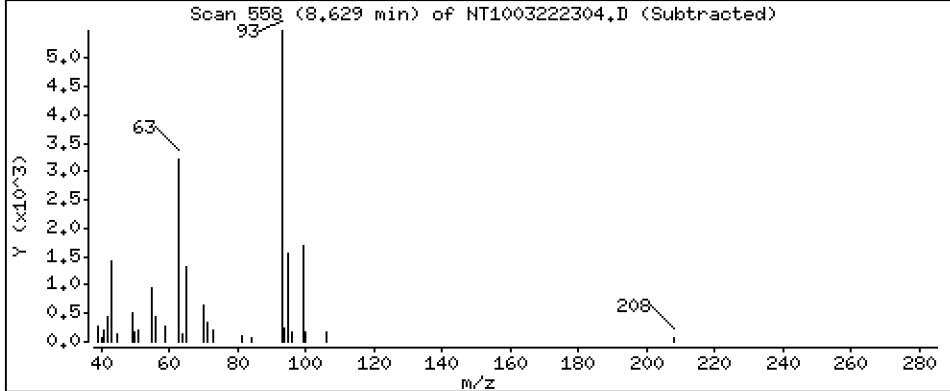
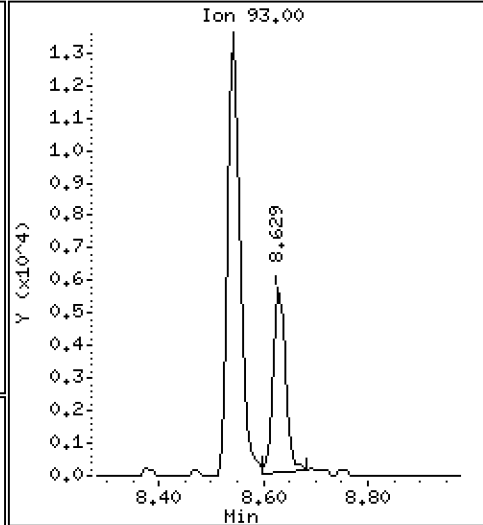
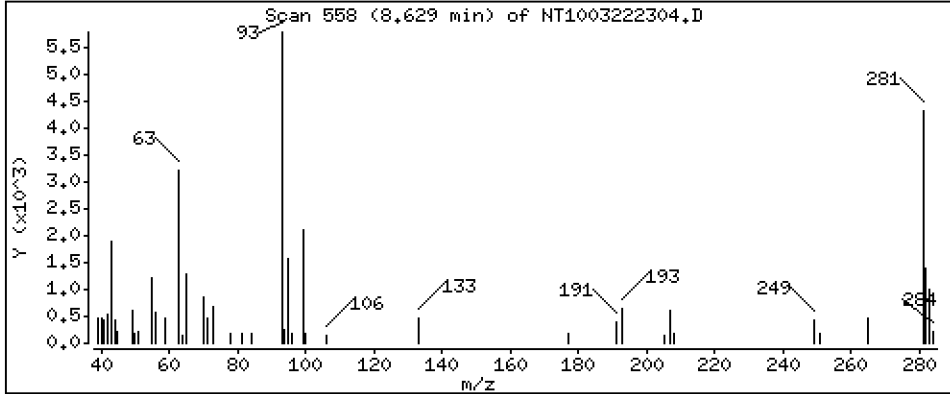
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

4 Bis(2-Chloroethyl)ether

Concentration: 0.2020 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

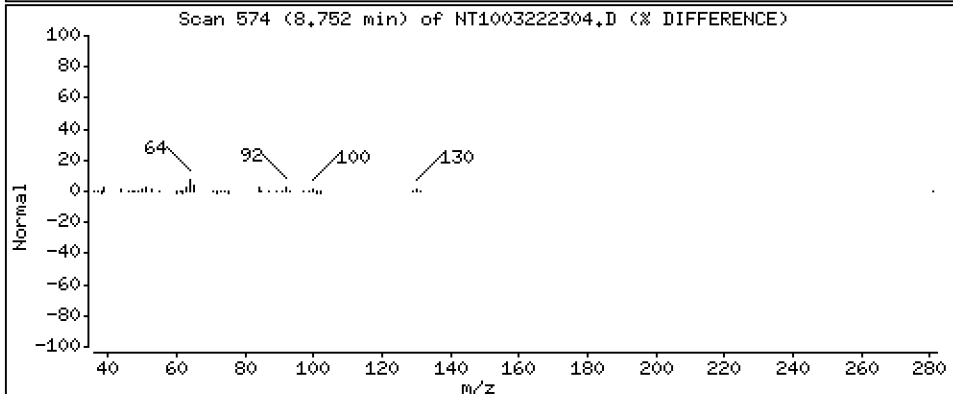
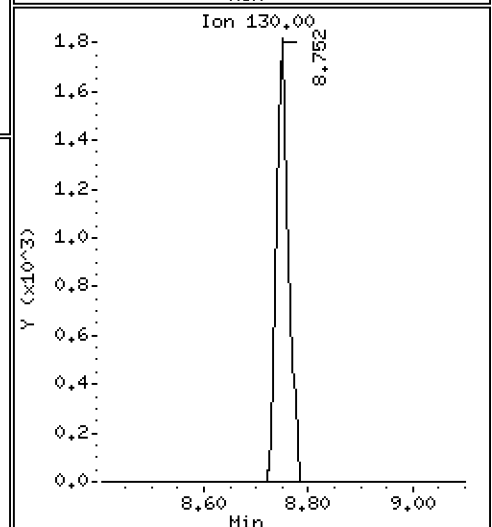
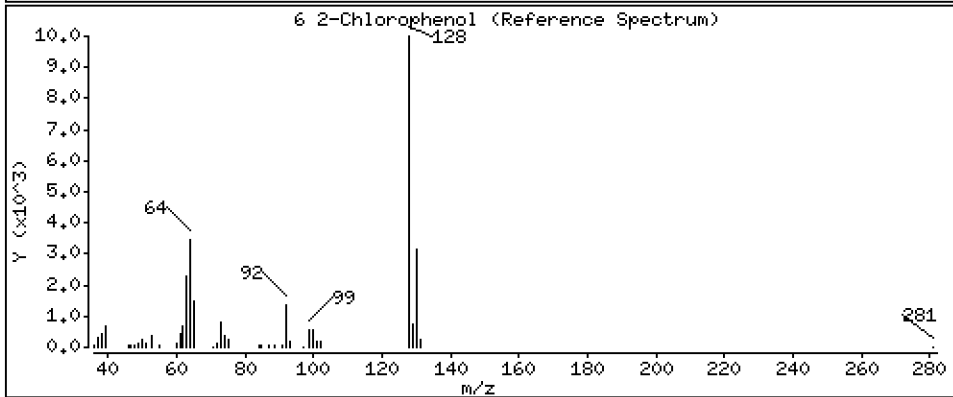
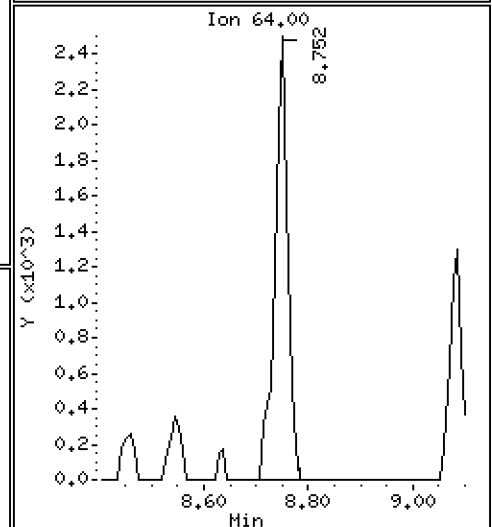
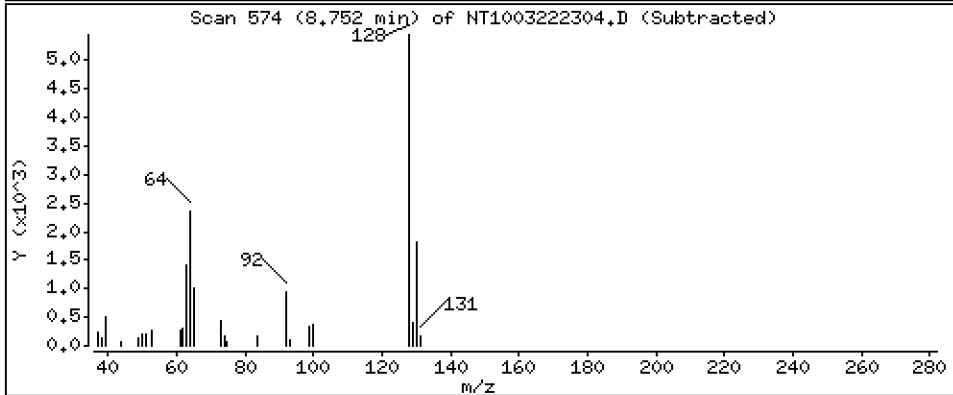
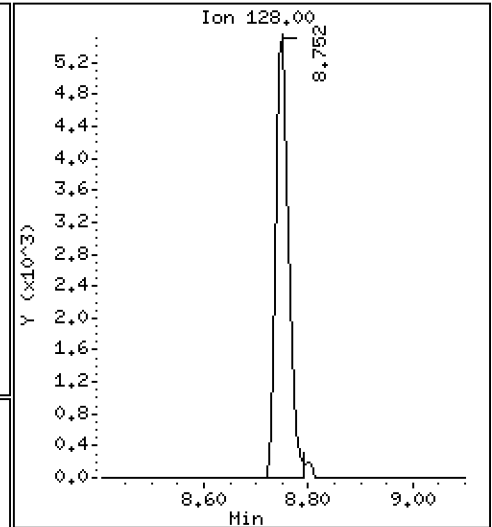
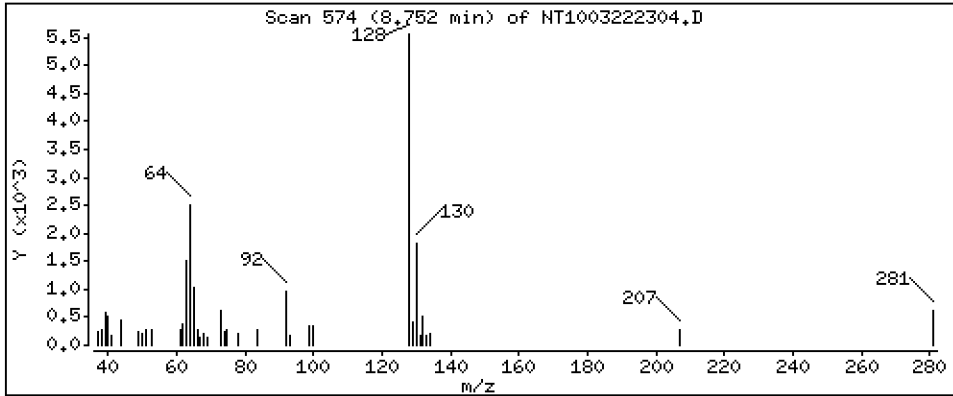
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 0,1878 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

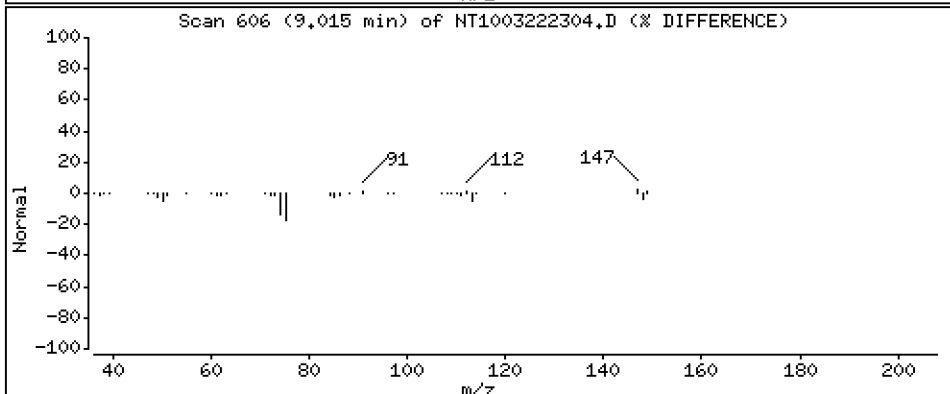
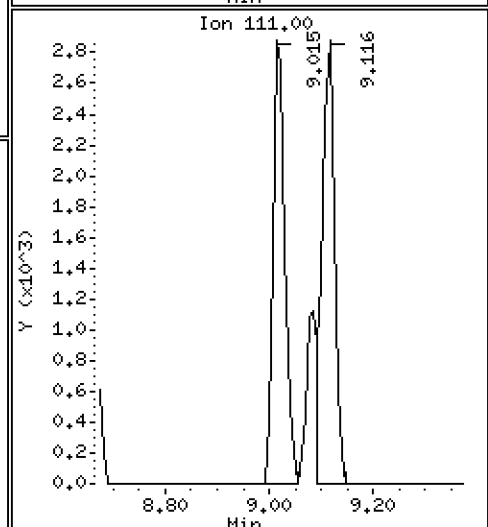
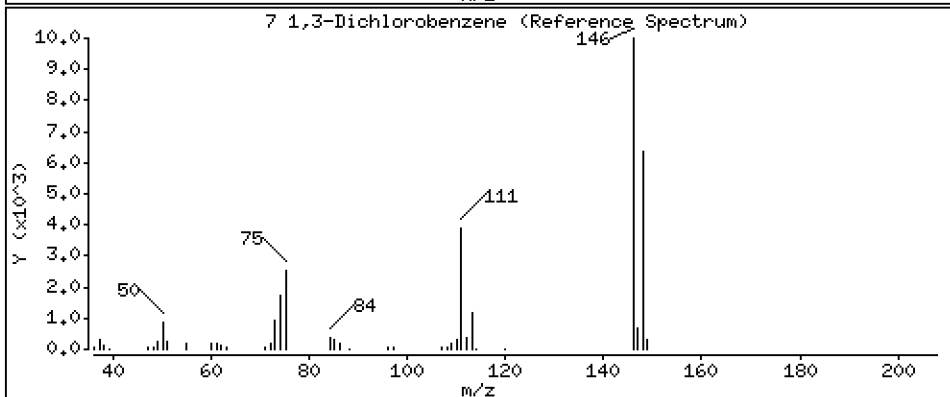
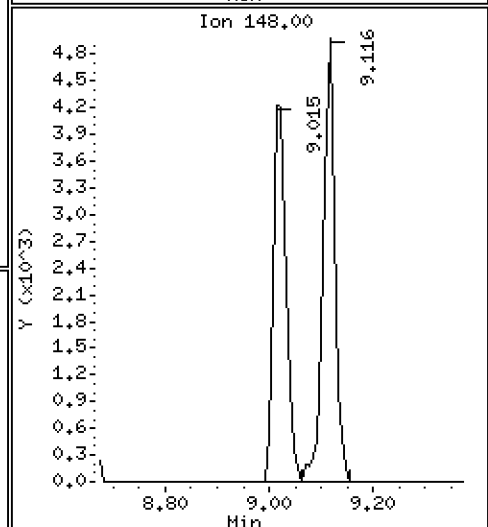
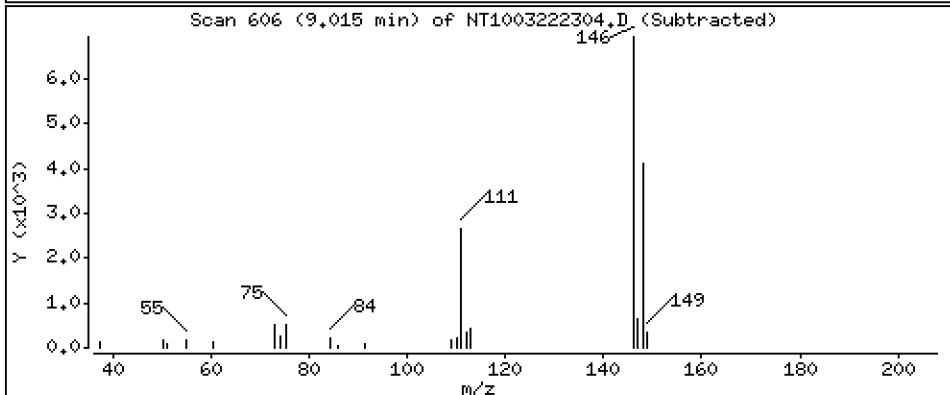
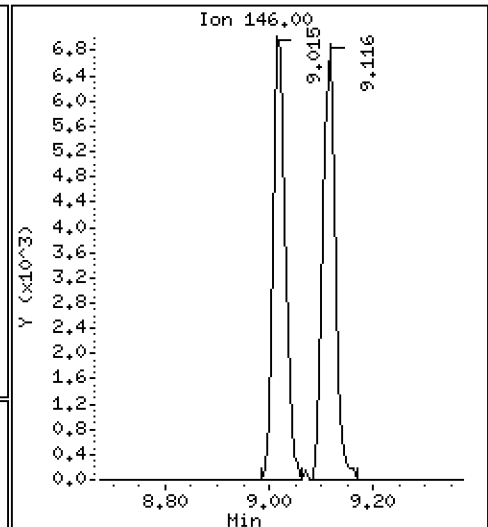
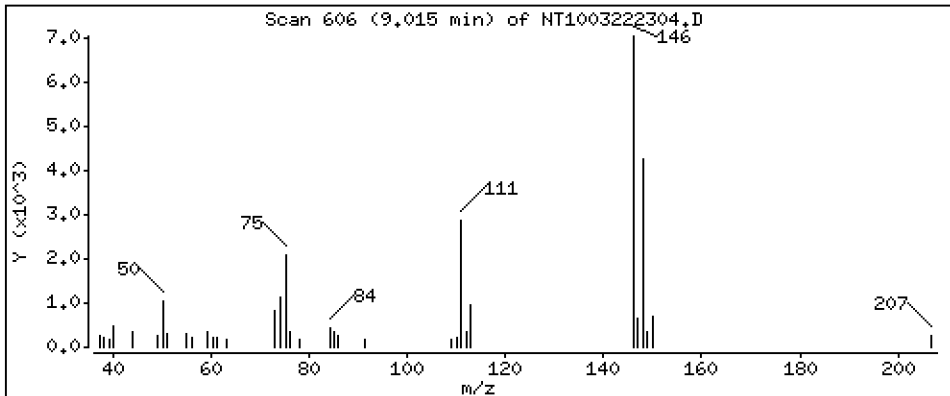
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

7 1,3-Dichlorobenzene

Concentration: 0.2192 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

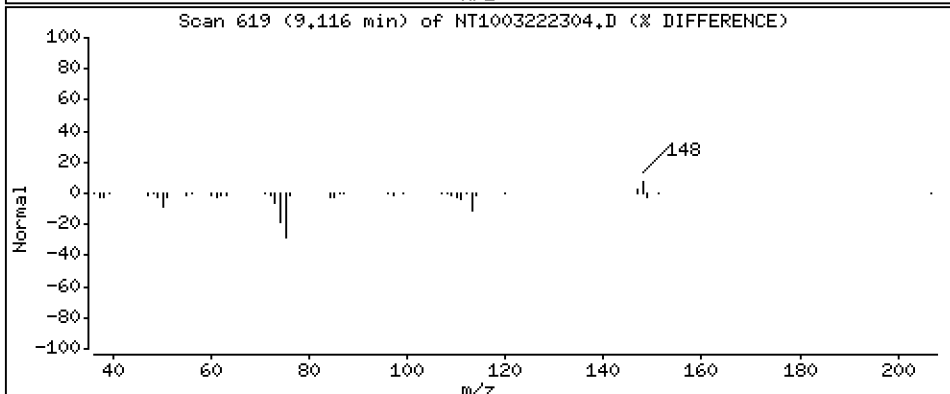
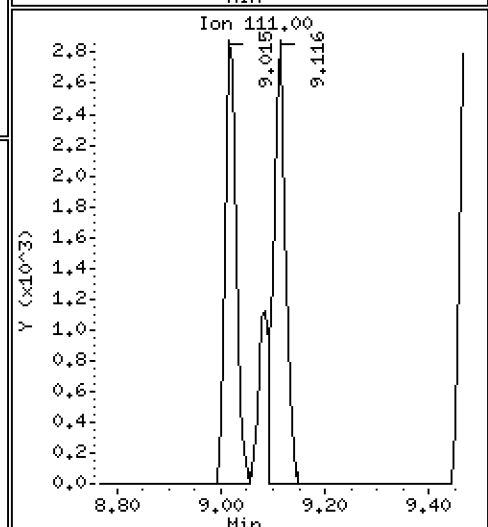
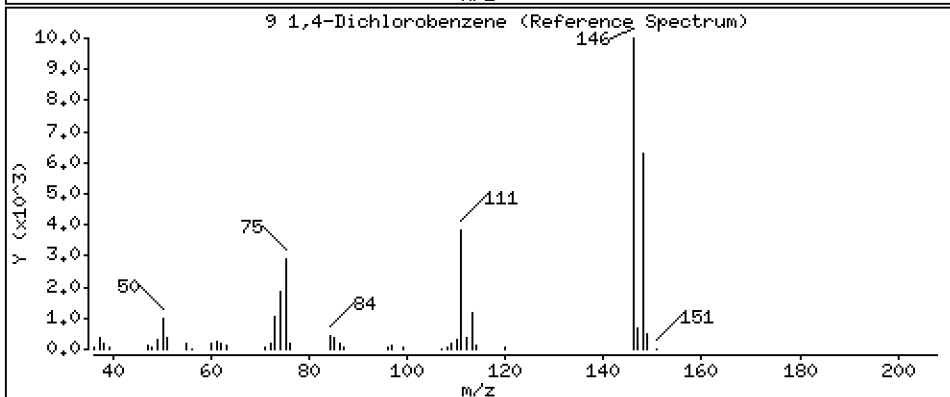
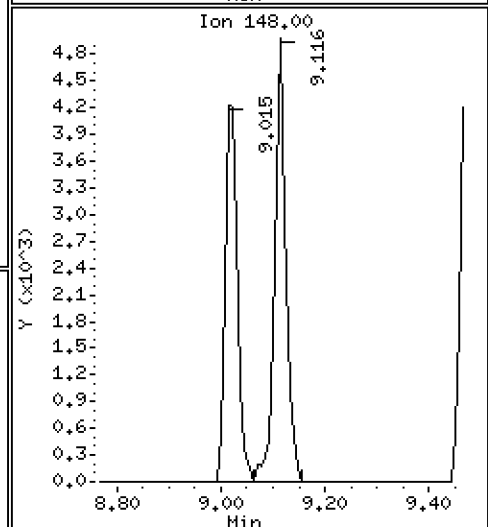
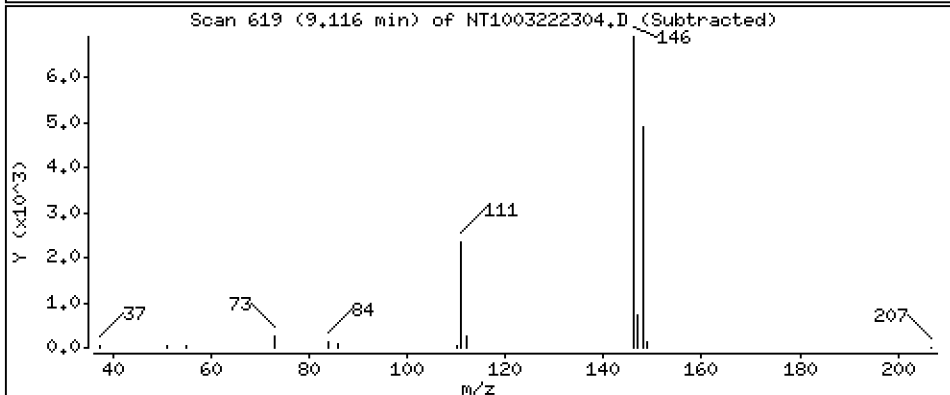
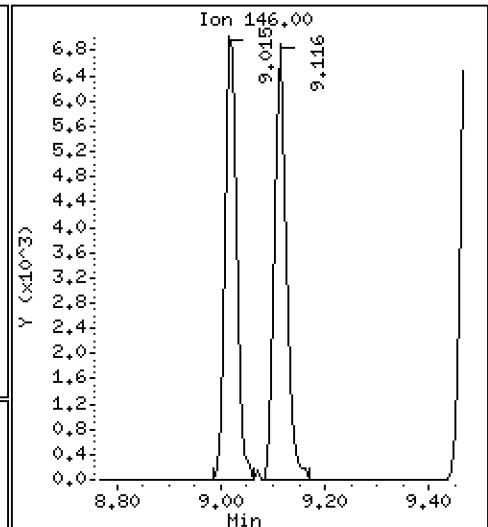
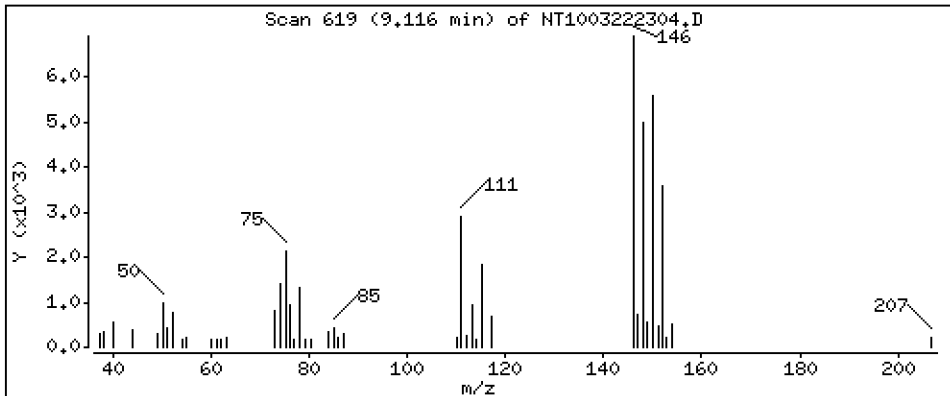
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

9 1,4-Dichlorobenzene

Concentration: 0.2121 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

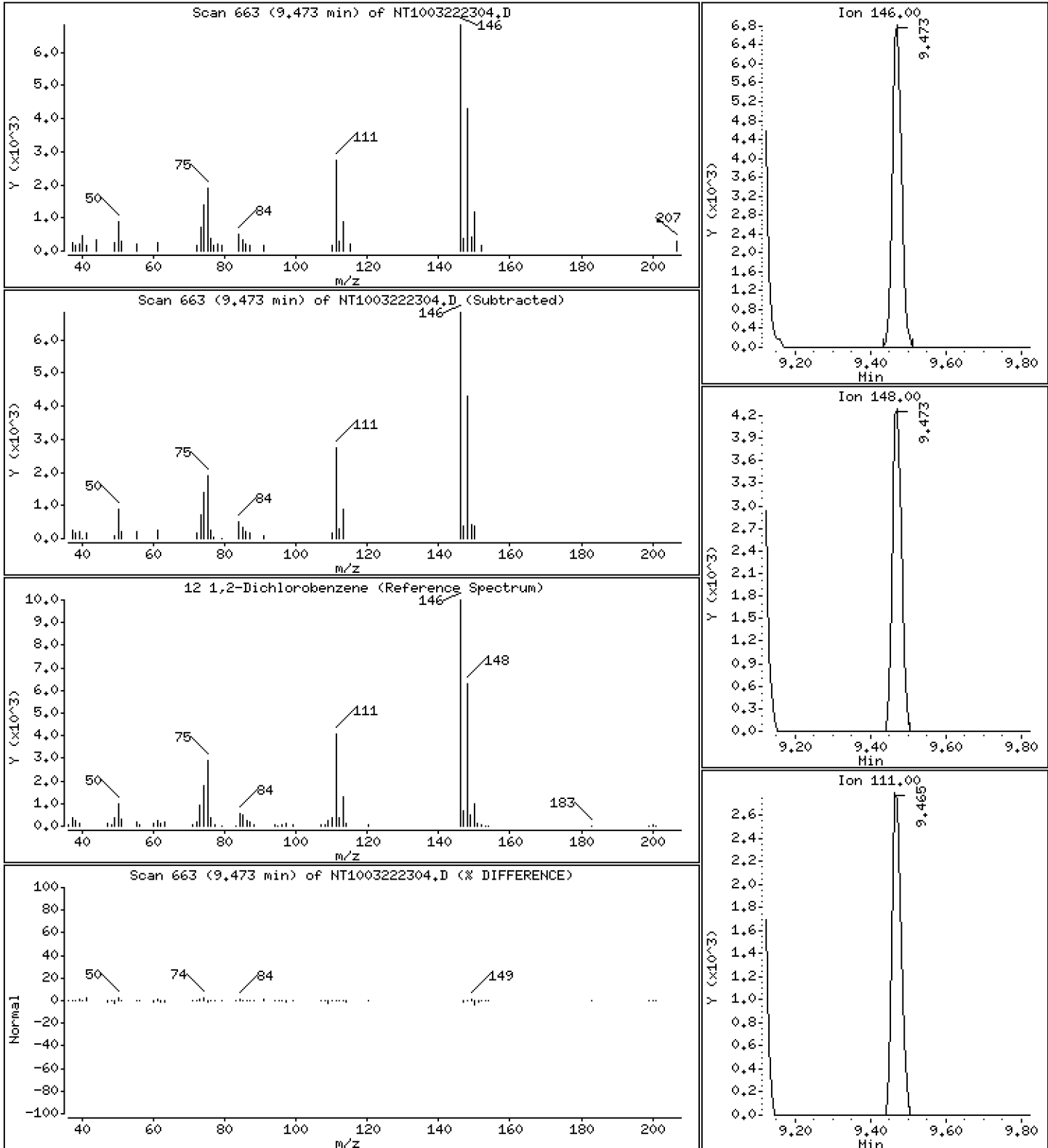
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

12 1,2-Dichlorobenzene

Concentration: 0,2148 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

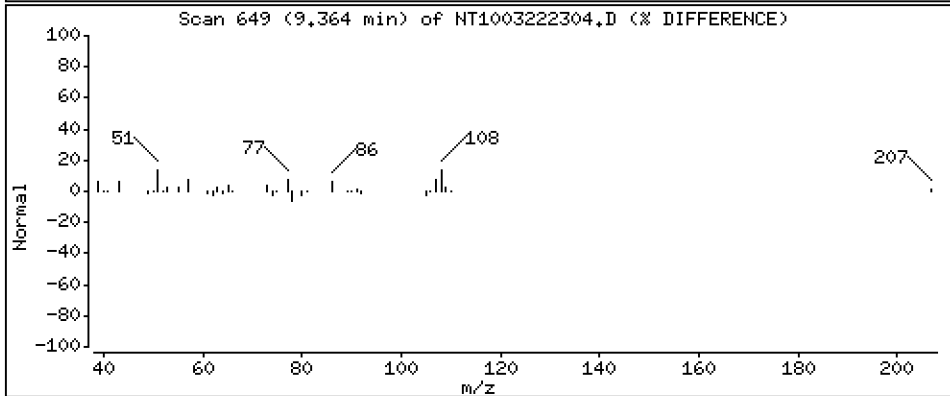
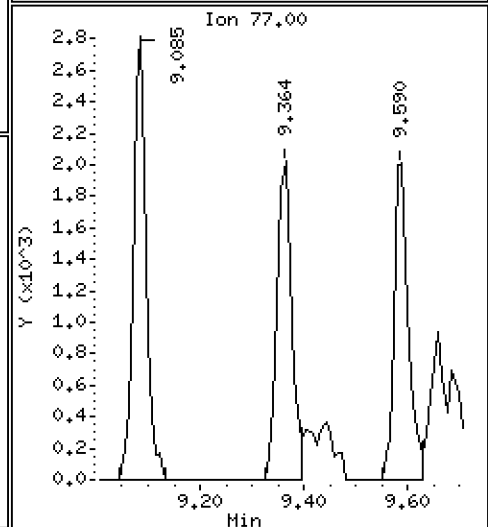
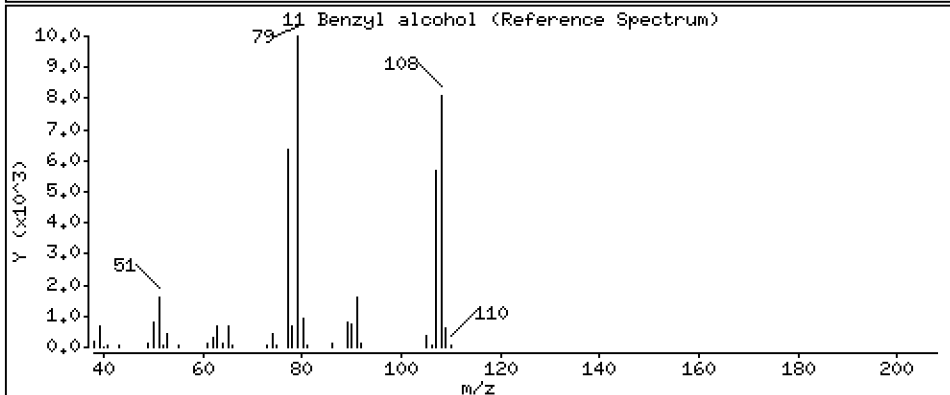
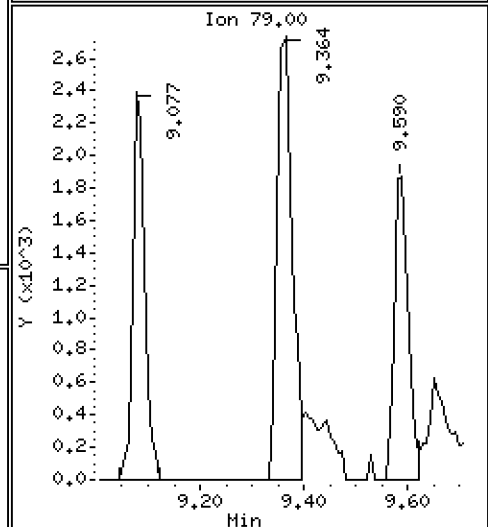
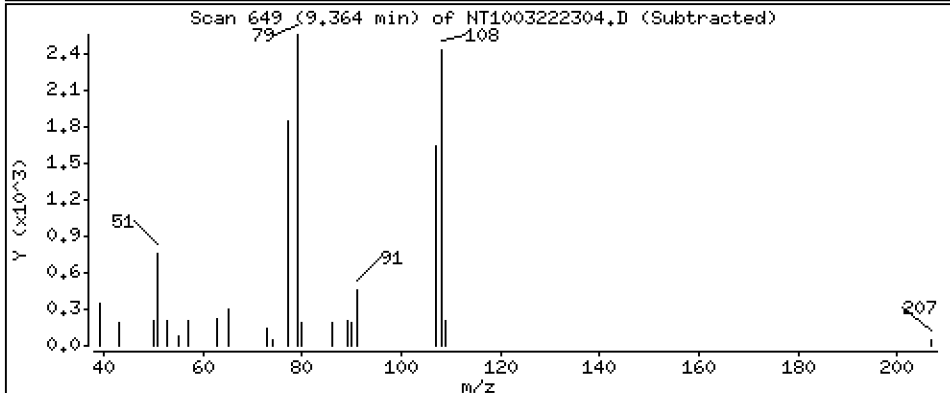
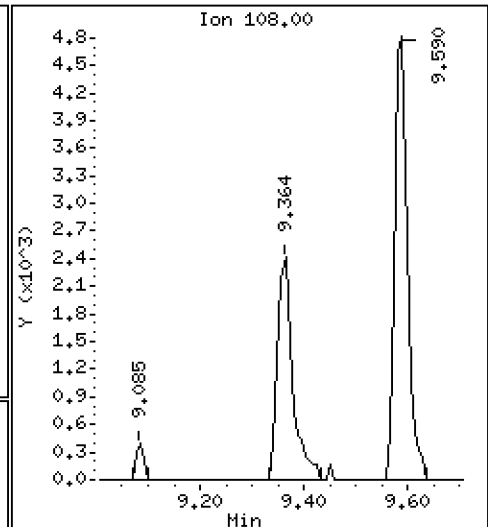
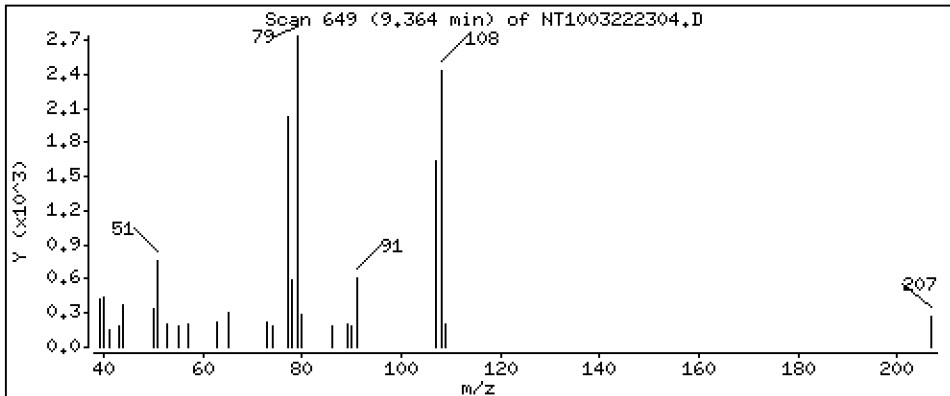
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 0.1733 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

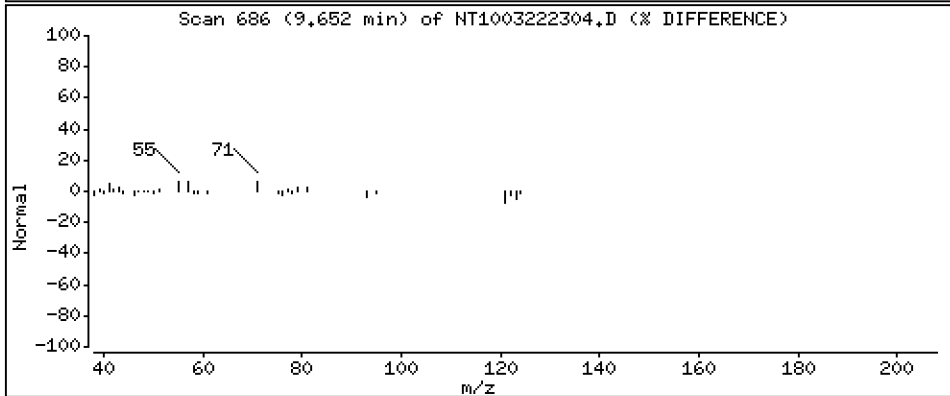
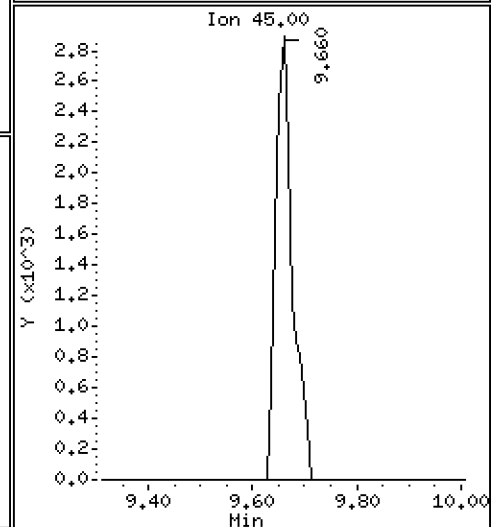
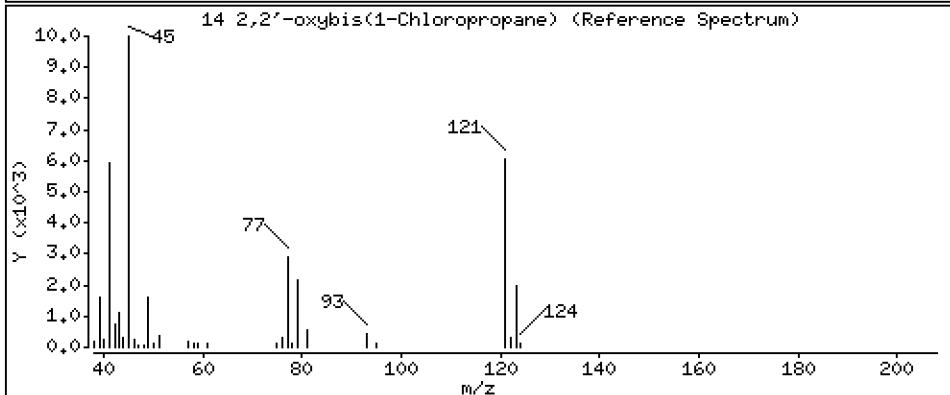
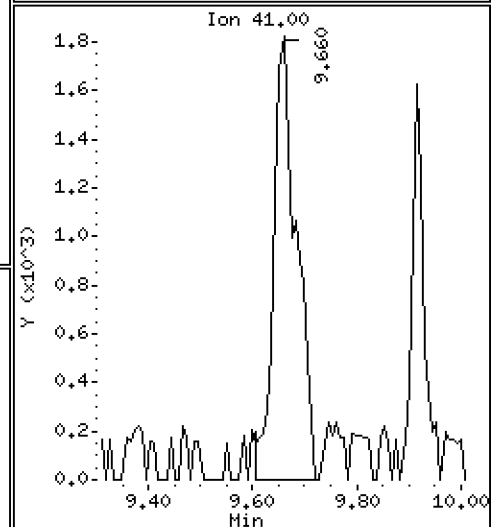
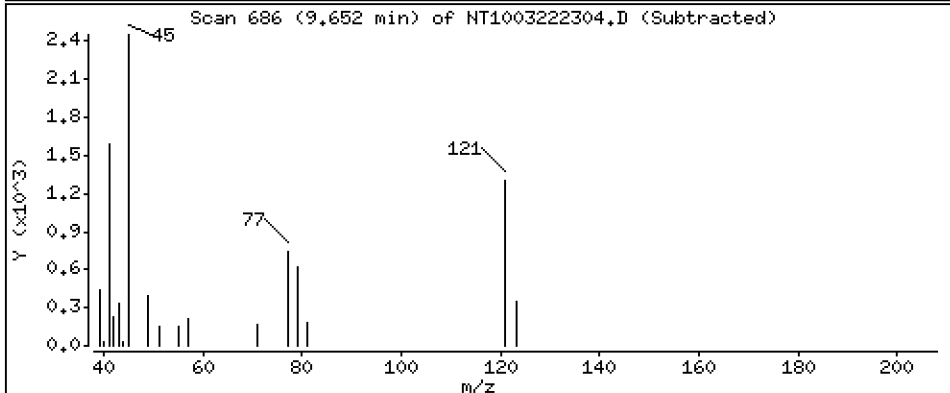
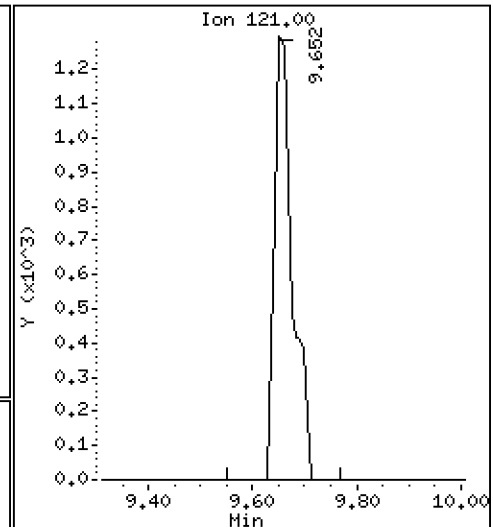
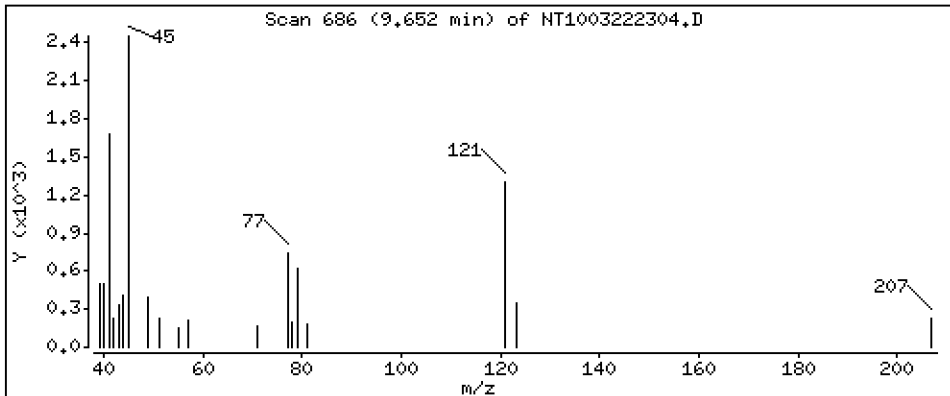
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

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

Concentration: 0.2039 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

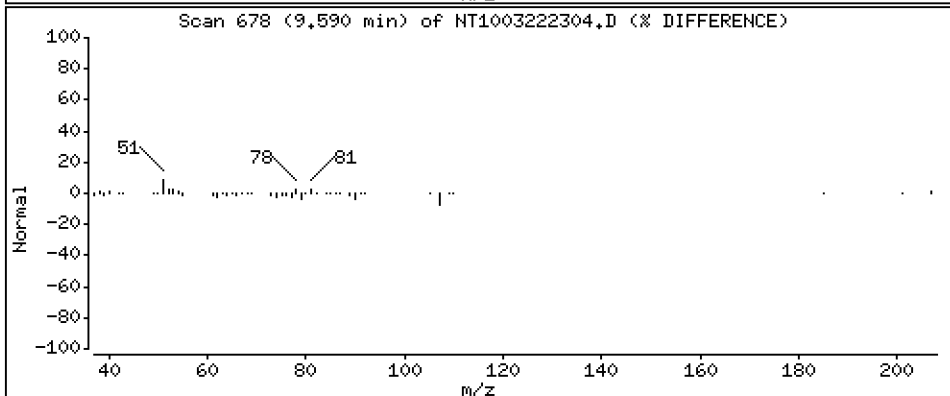
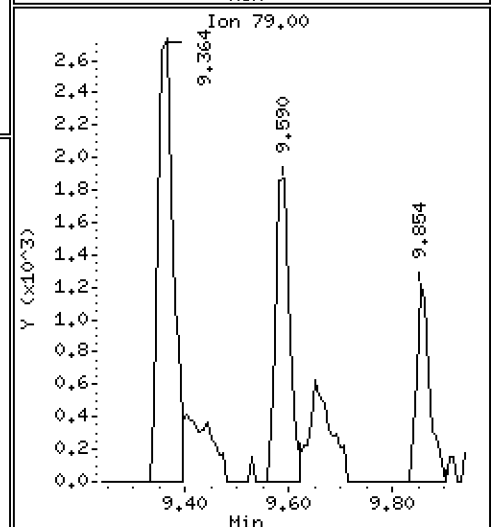
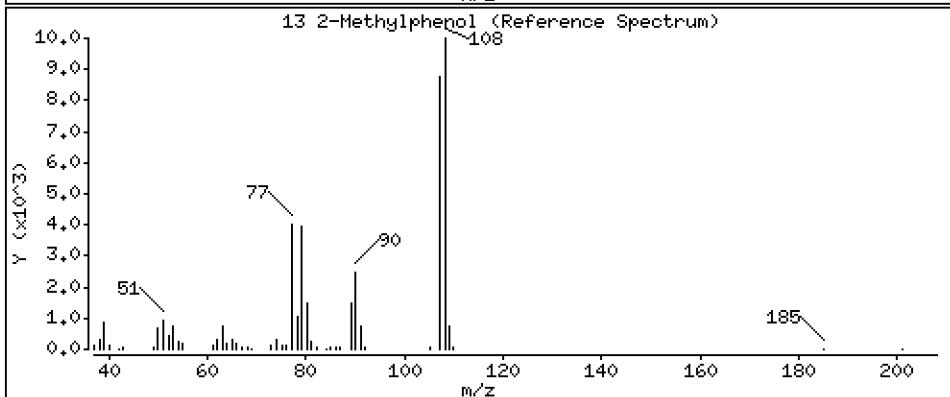
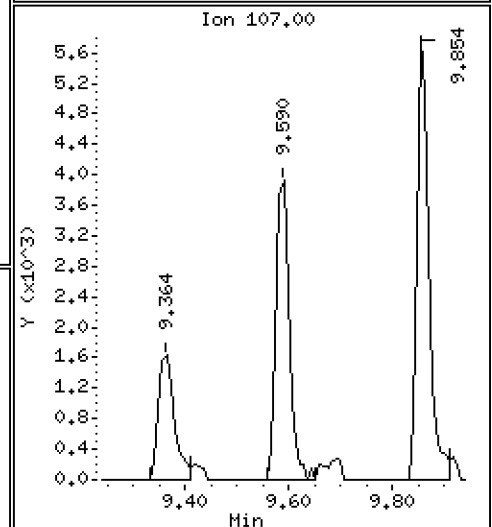
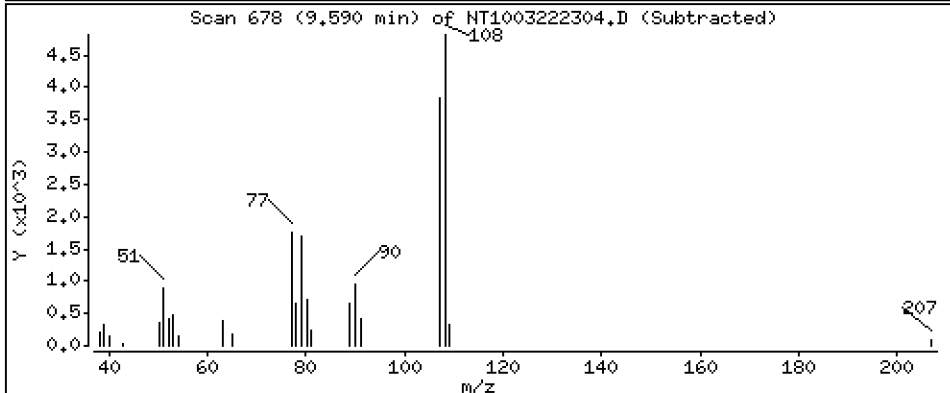
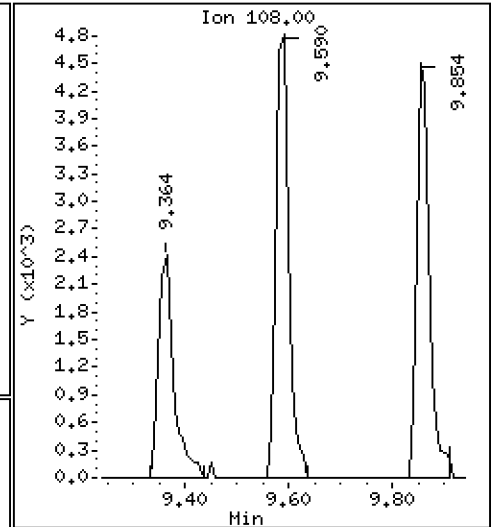
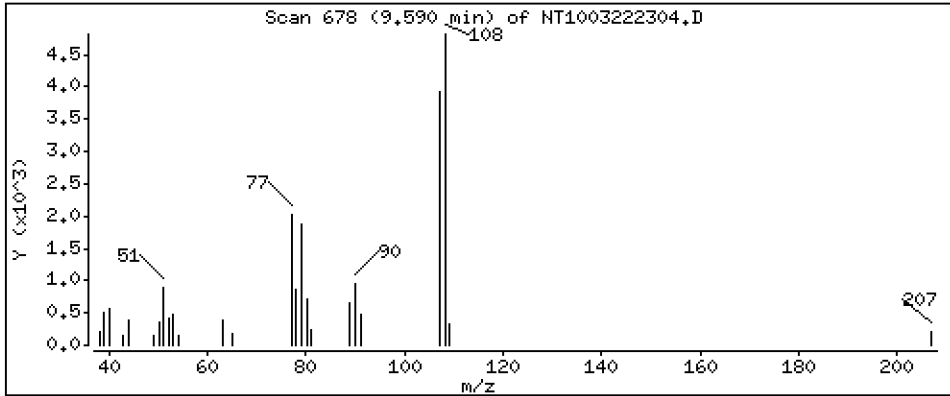
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

13 2-Methylphenol

Concentration: 0,1827 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

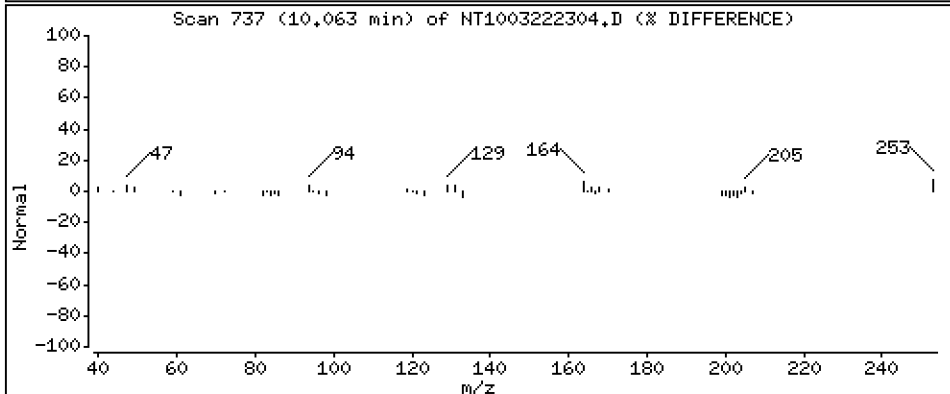
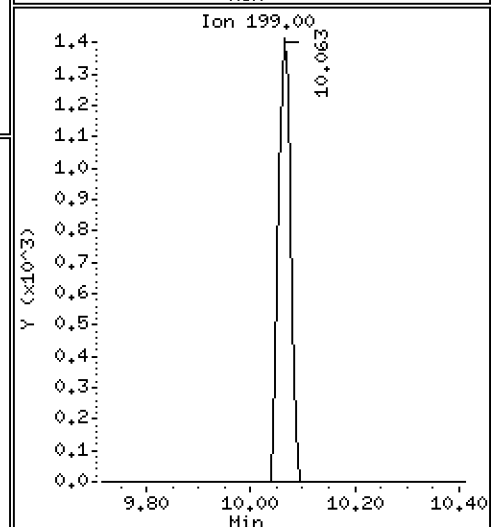
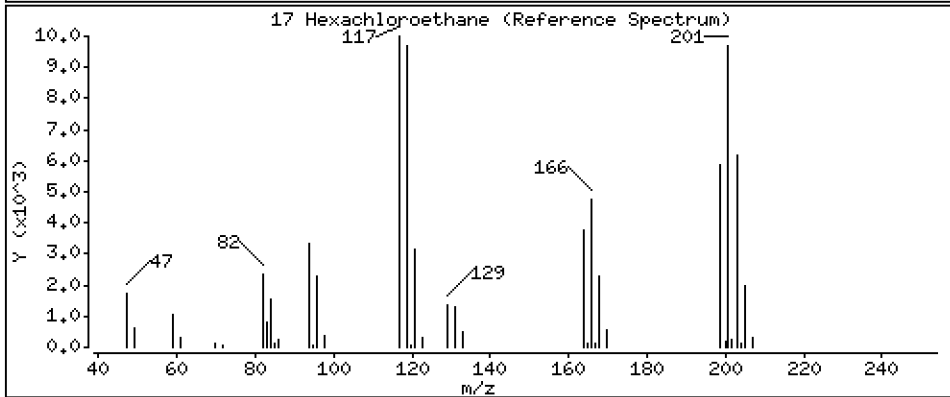
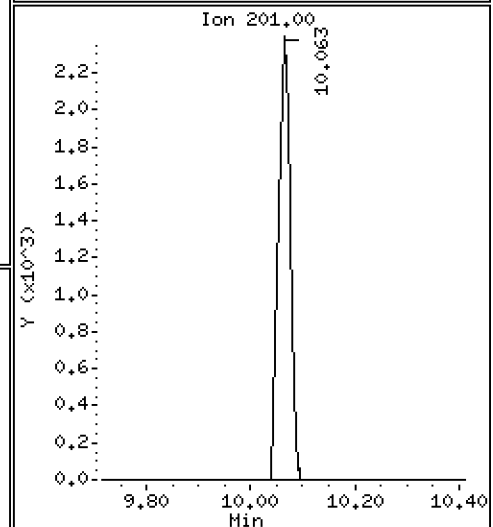
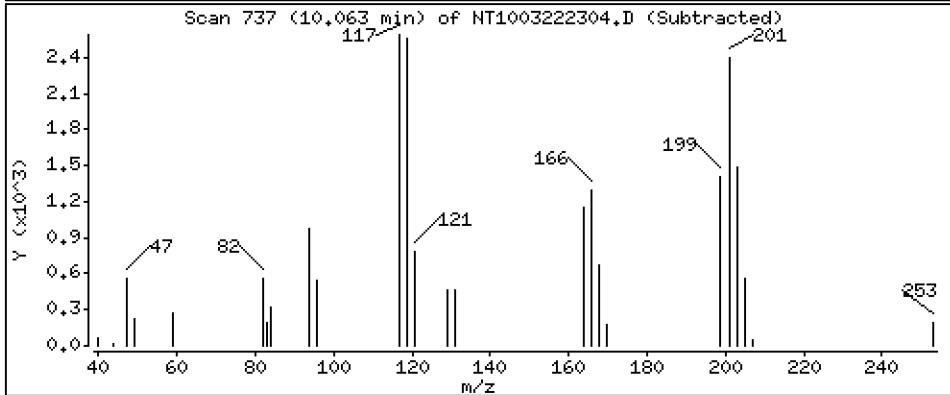
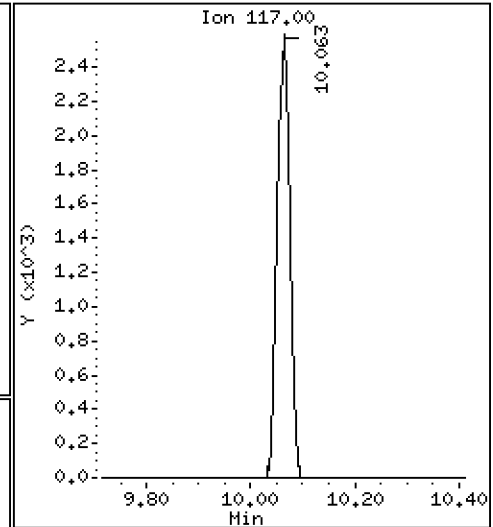
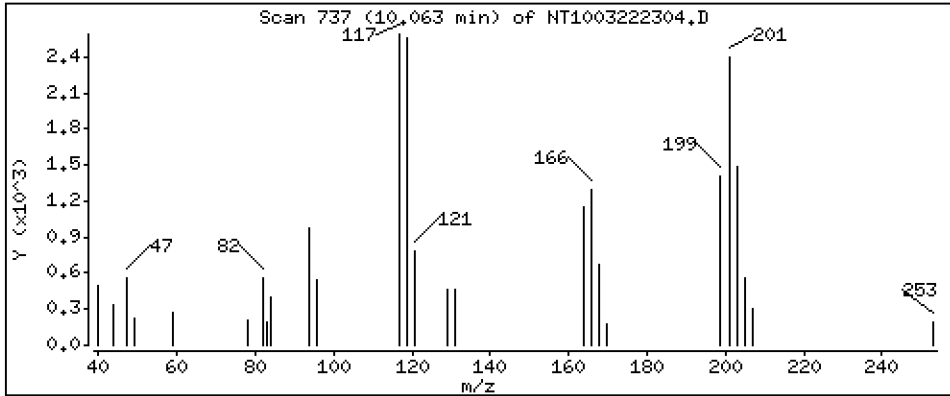
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

17 Hexachloroethane

Concentration: 0,1954 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

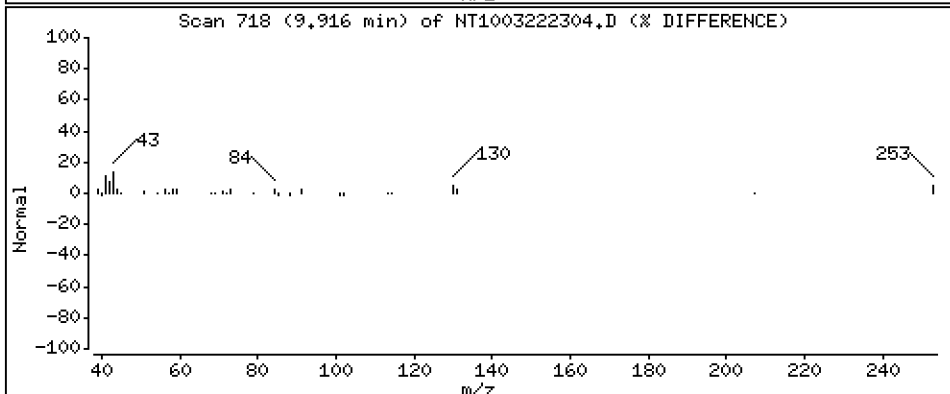
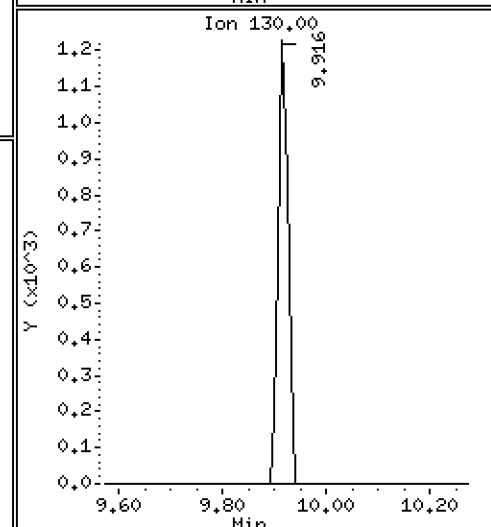
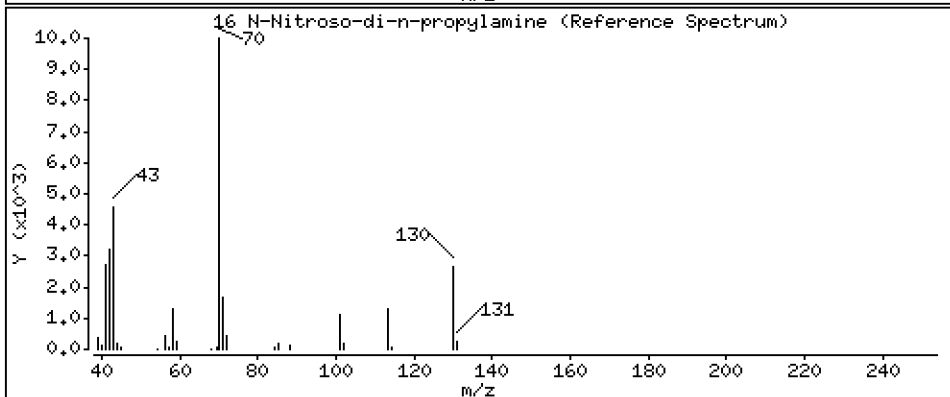
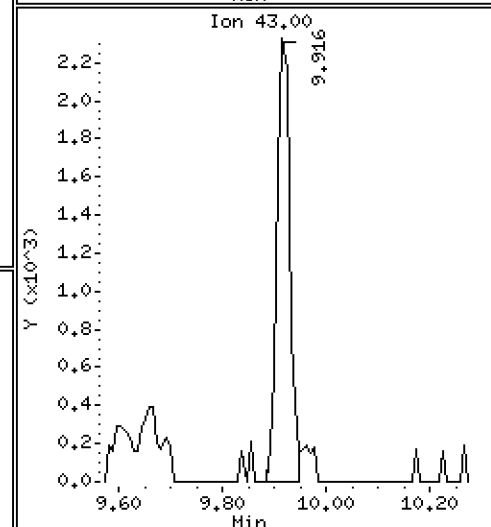
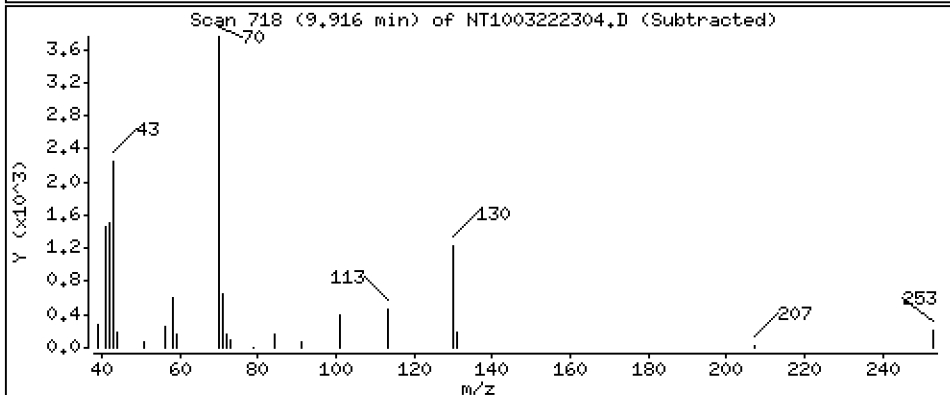
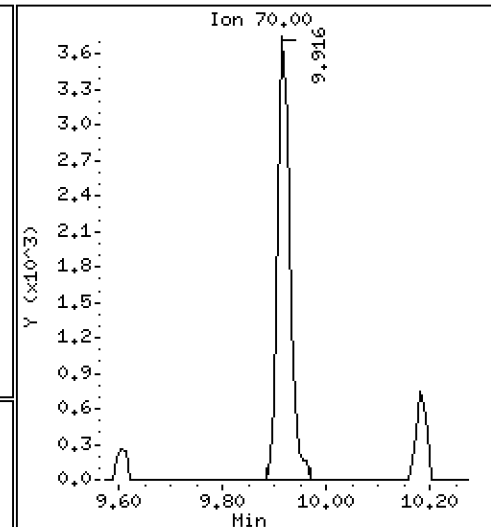
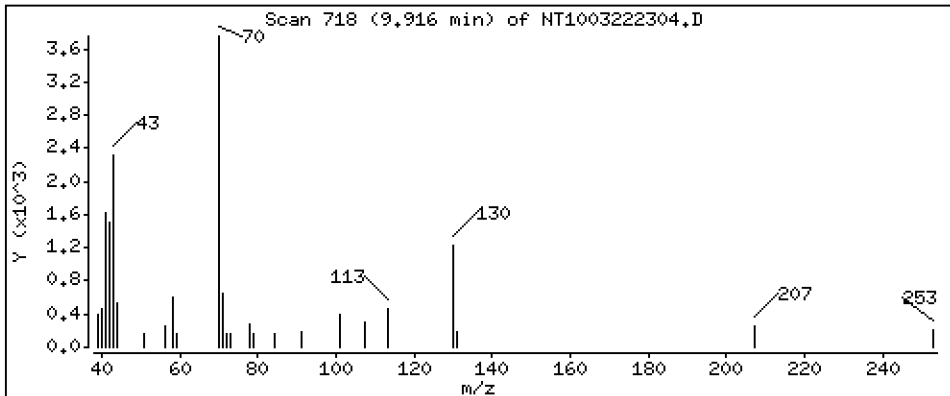
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

16 N-Nitroso-di-n-propylamine

Concentration: 0,1733 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

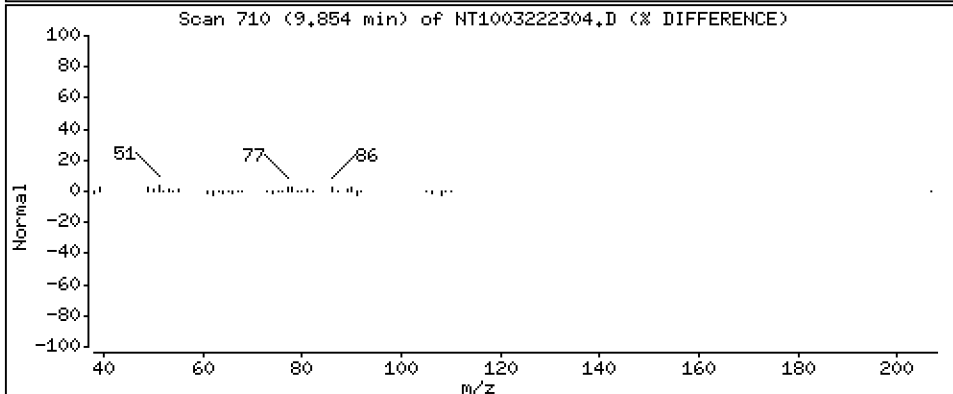
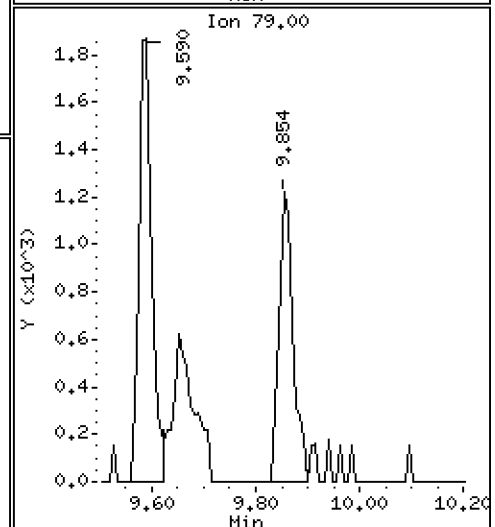
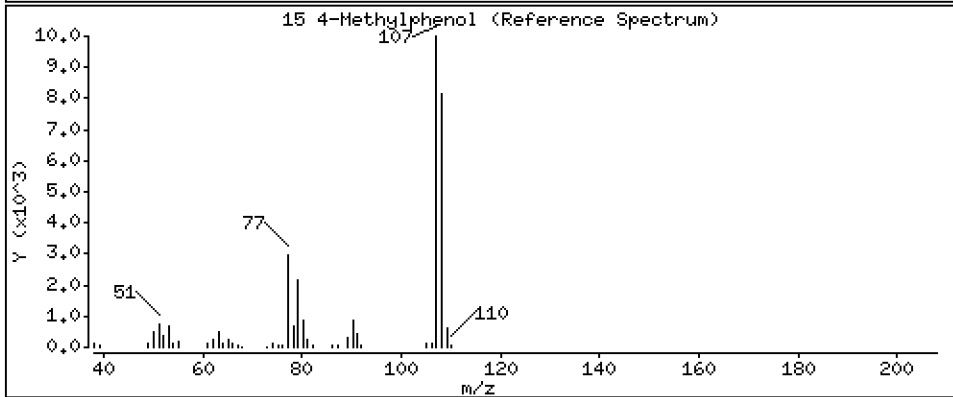
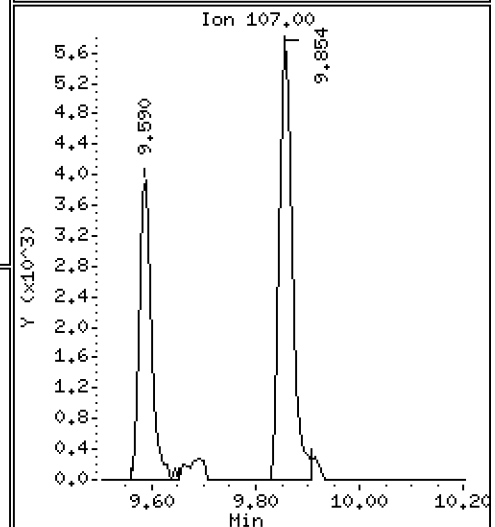
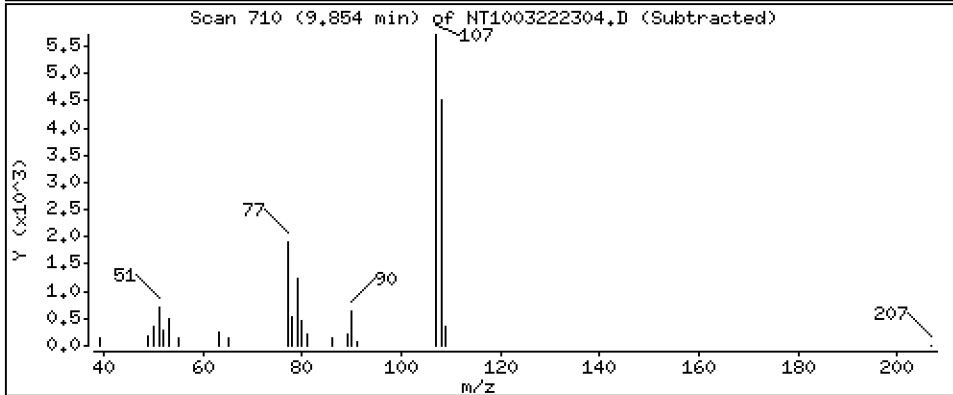
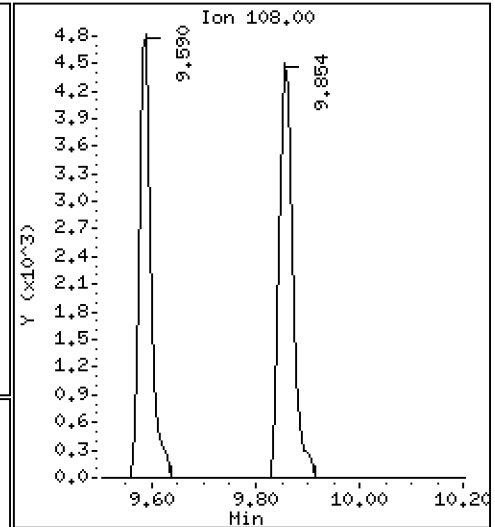
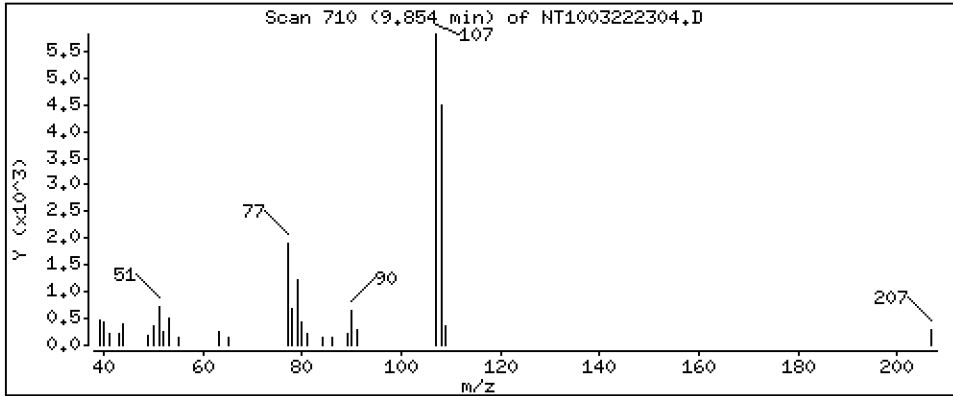
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

15 4-Methylphenol

Concentration: 0,1770 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

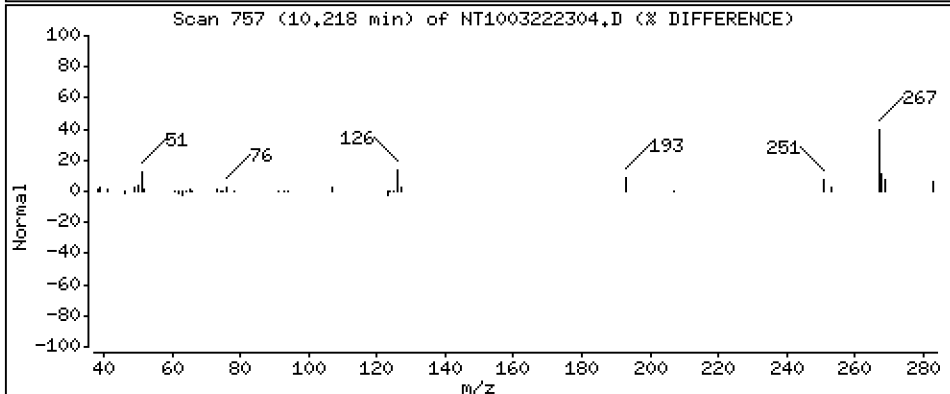
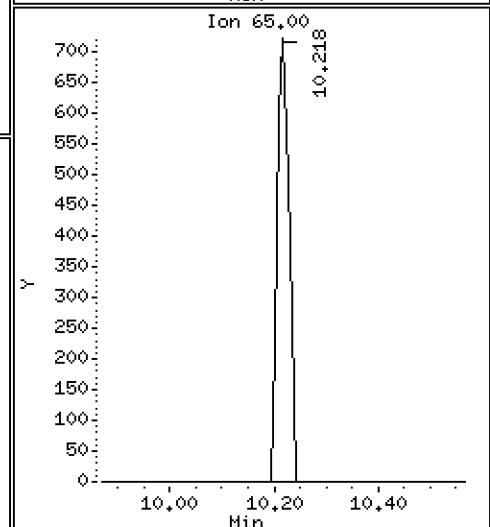
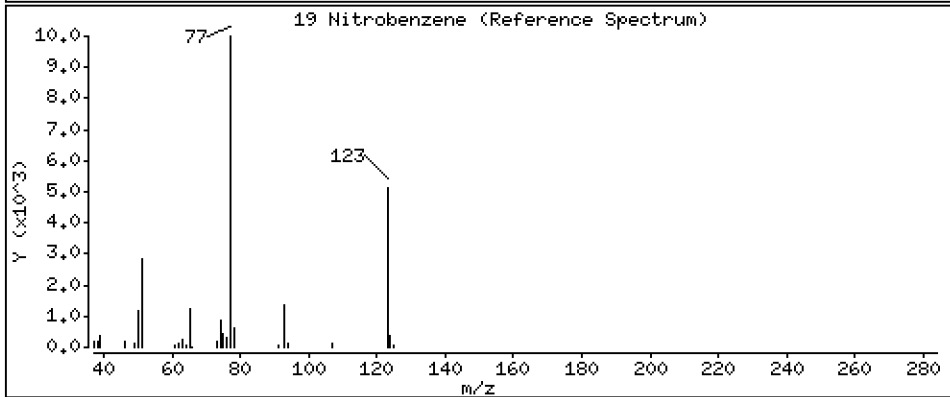
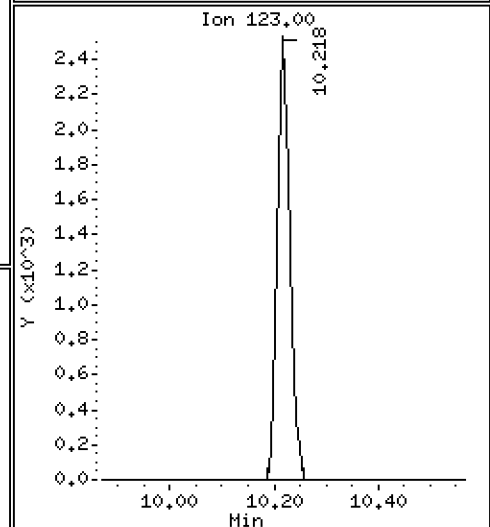
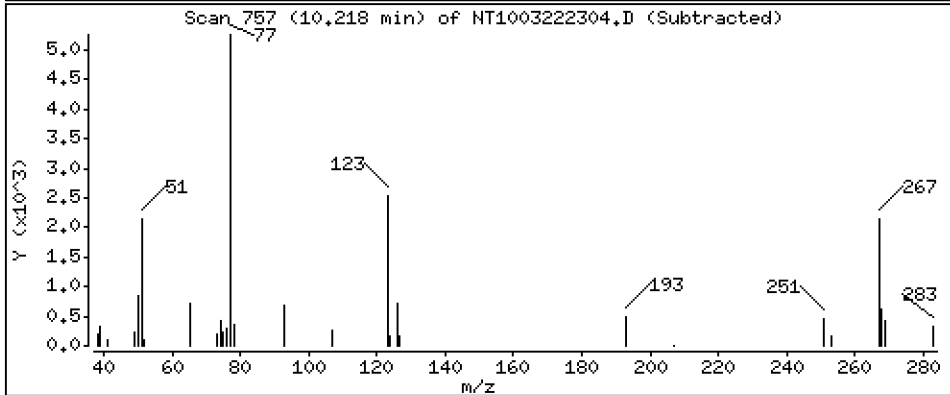
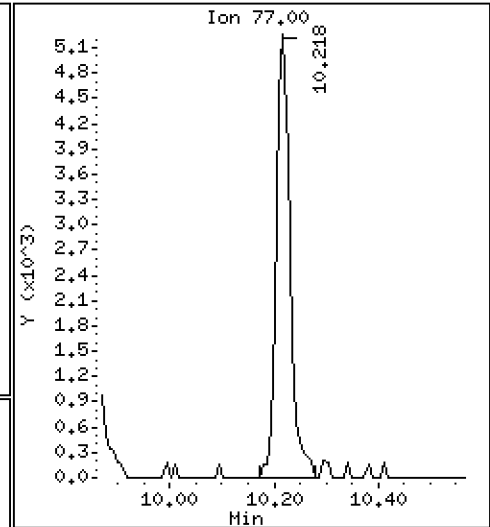
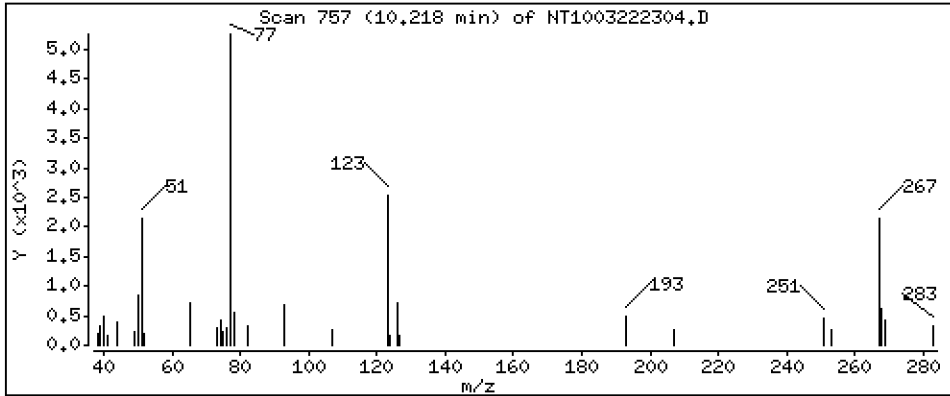
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

19 Nitrobenzene

Concentration: 0,1853 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

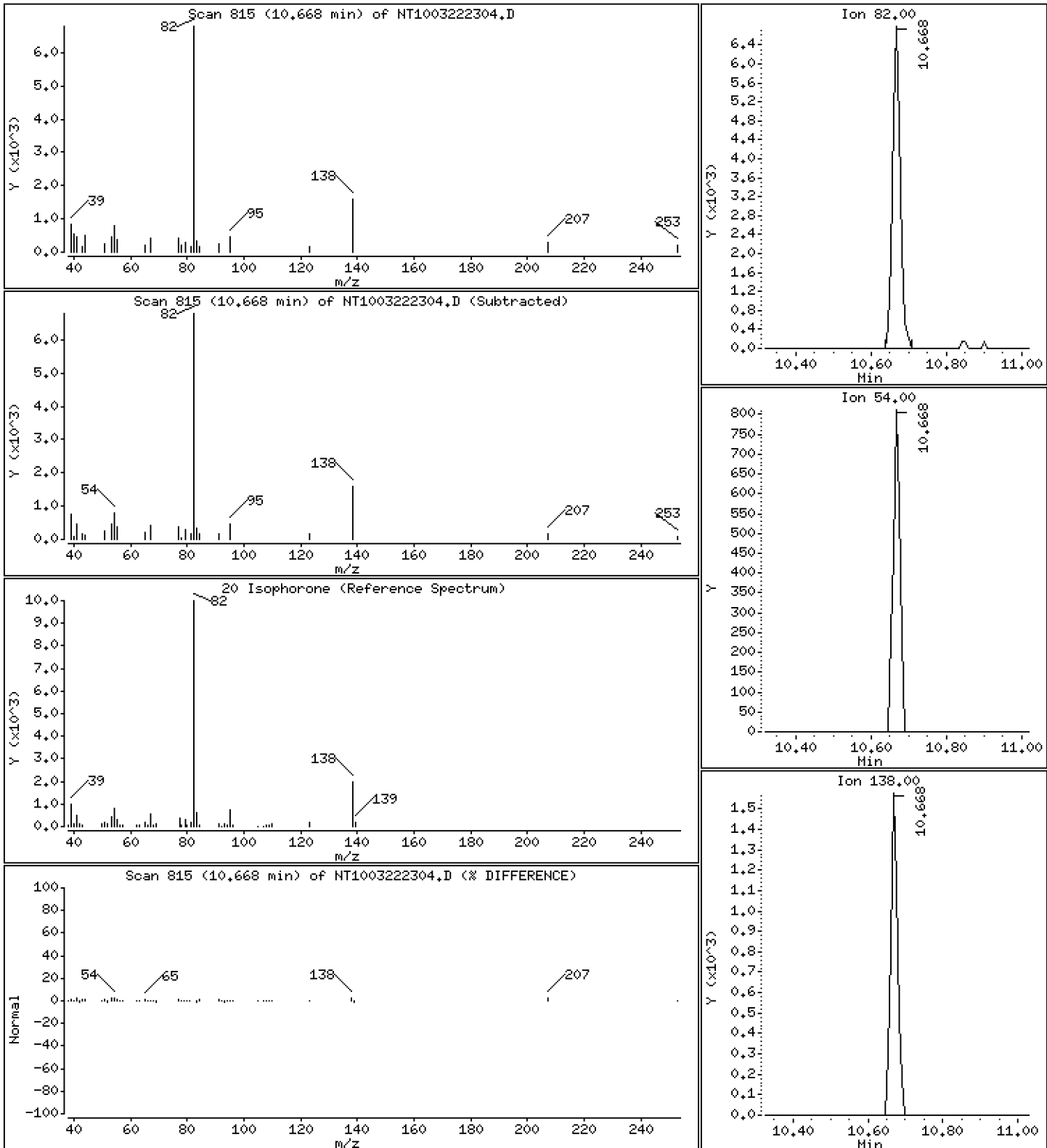
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

20 Isophorone

Concentration: 0.1565 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

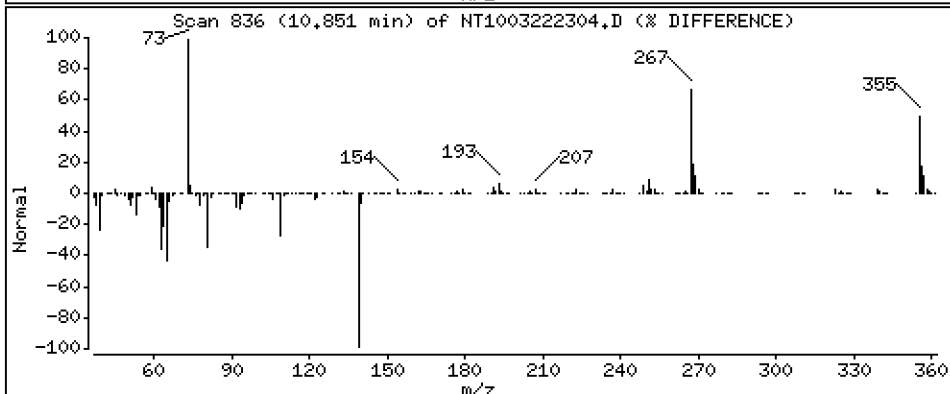
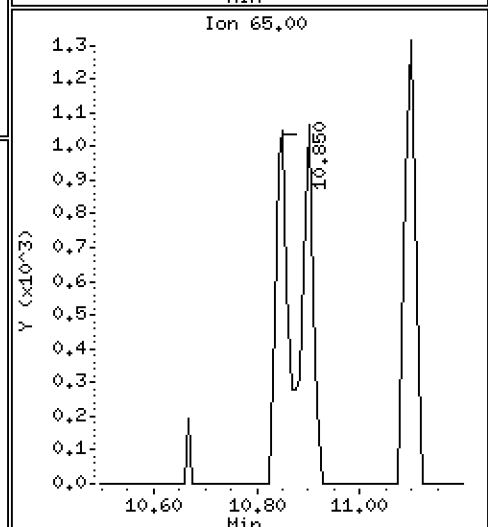
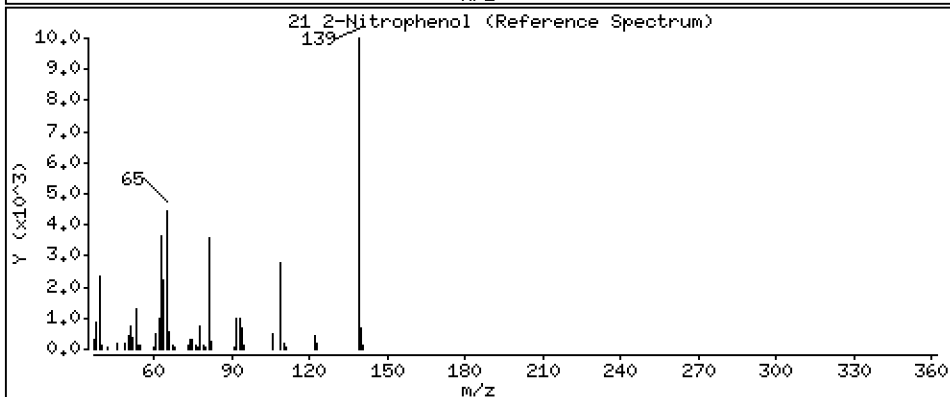
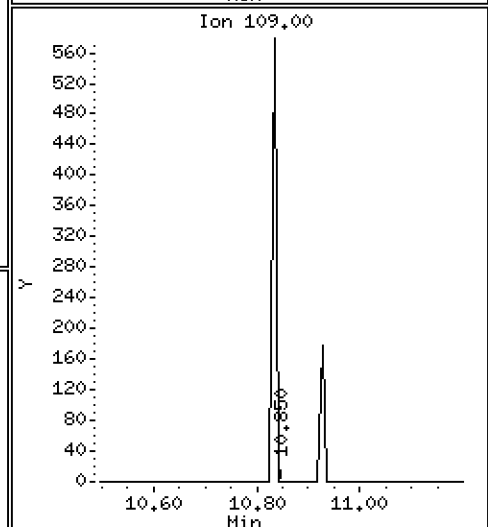
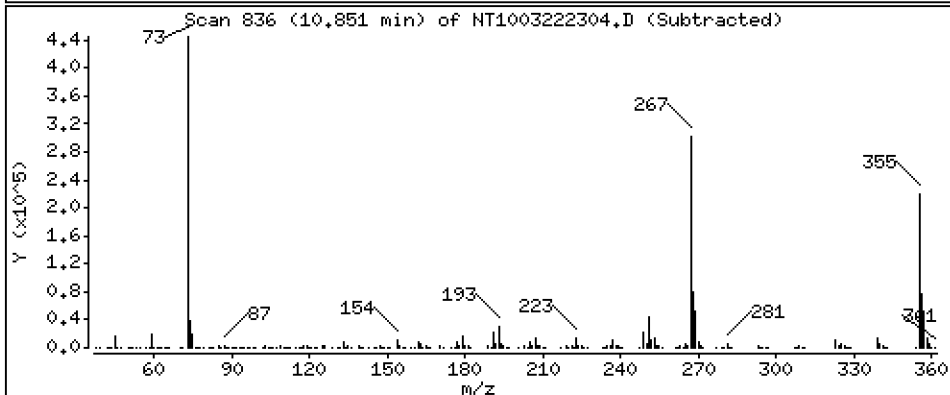
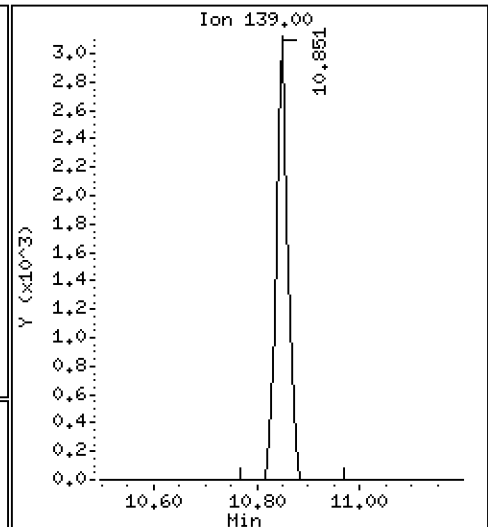
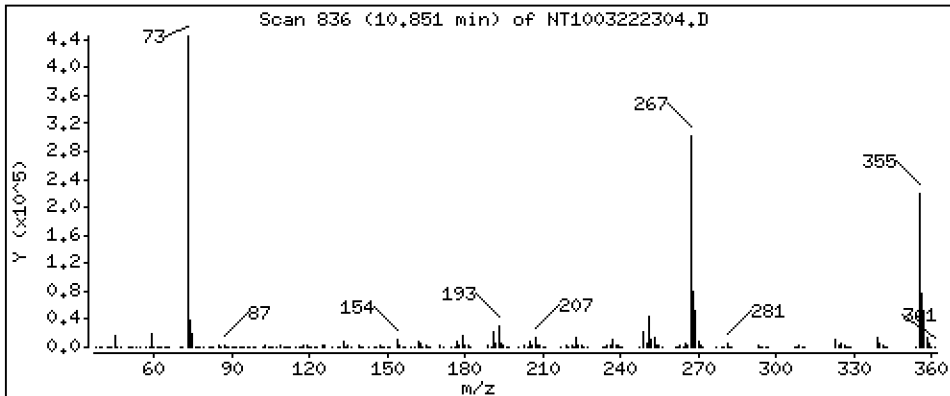
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

21 2-Nitrophenol

Concentration: 0,2201 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

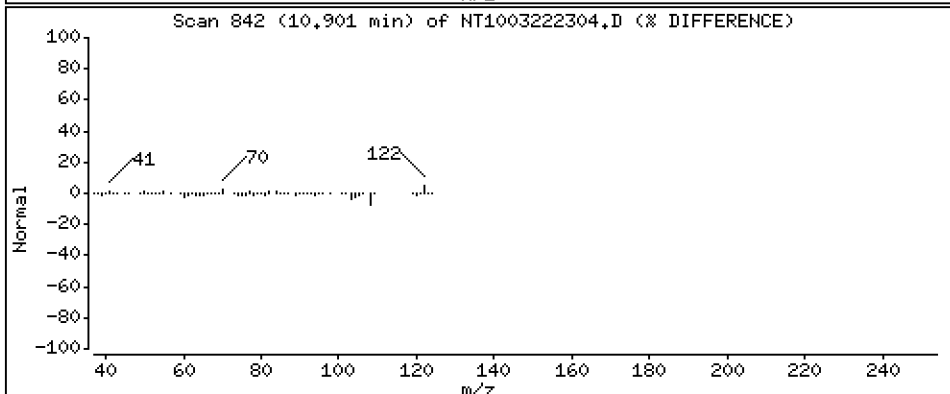
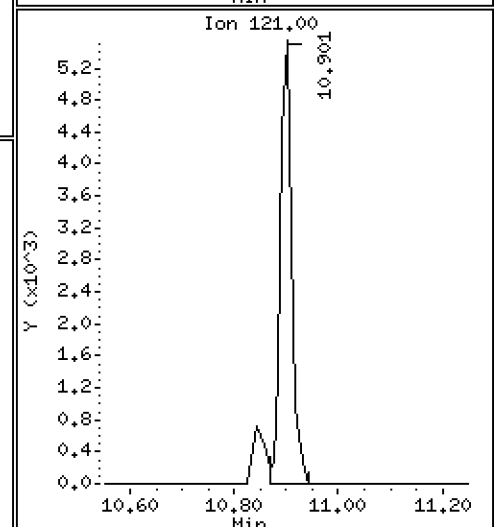
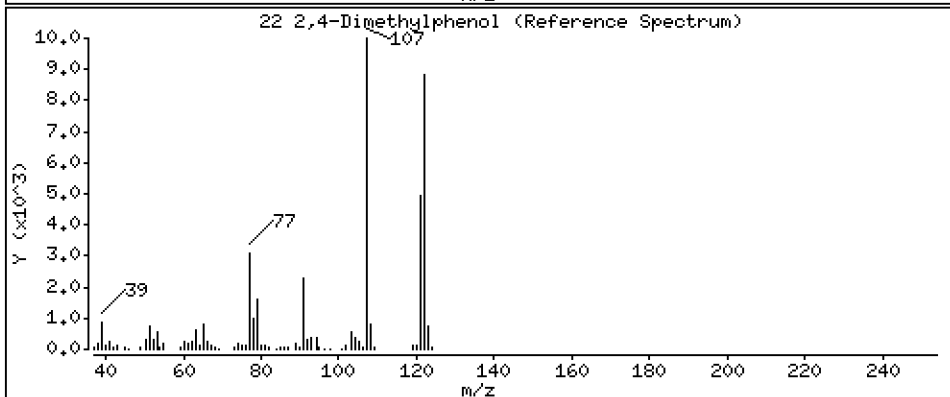
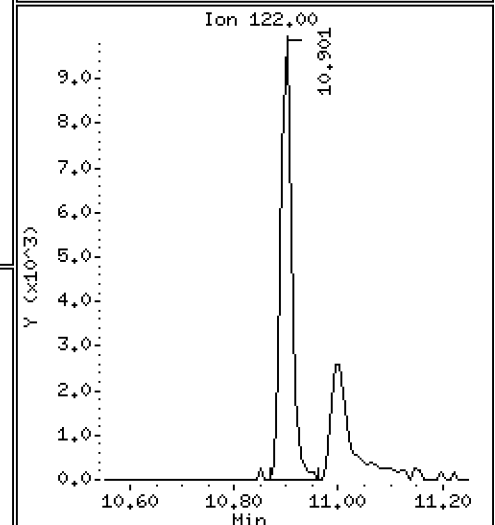
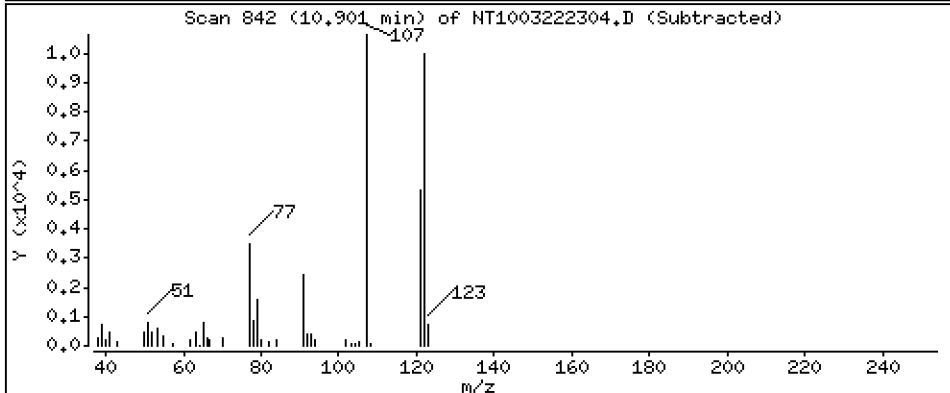
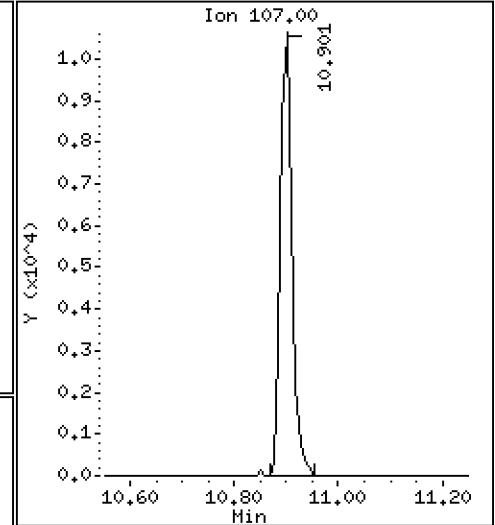
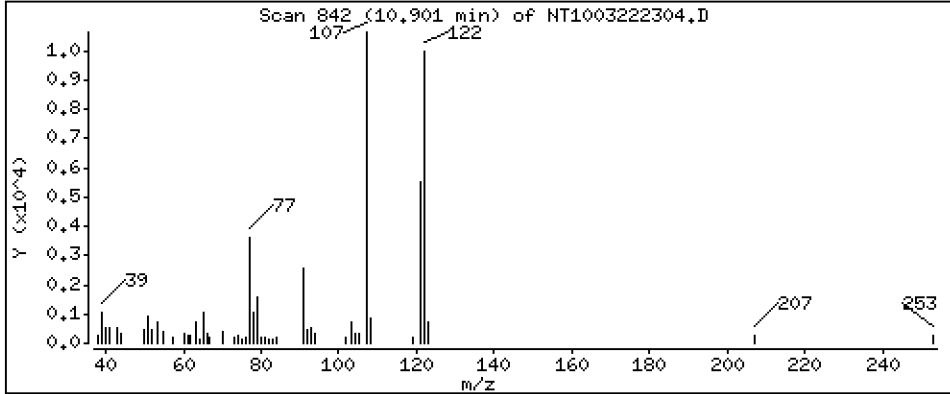
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 0,3595 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

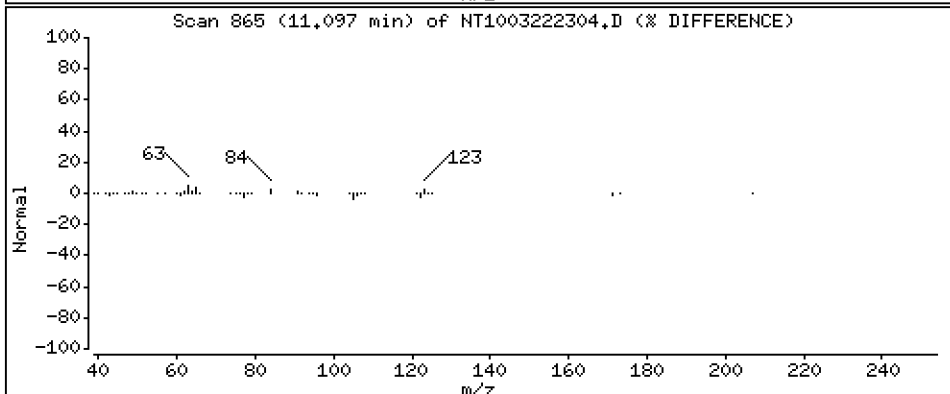
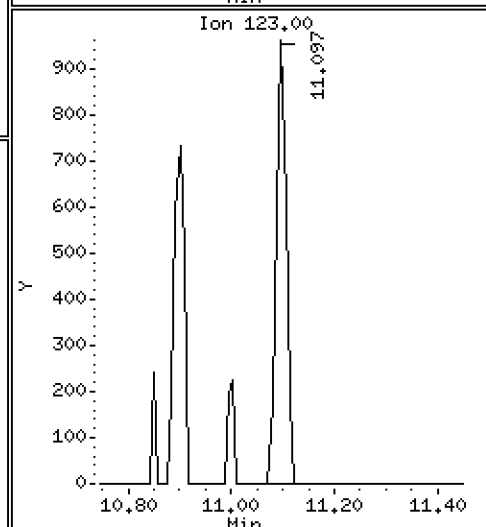
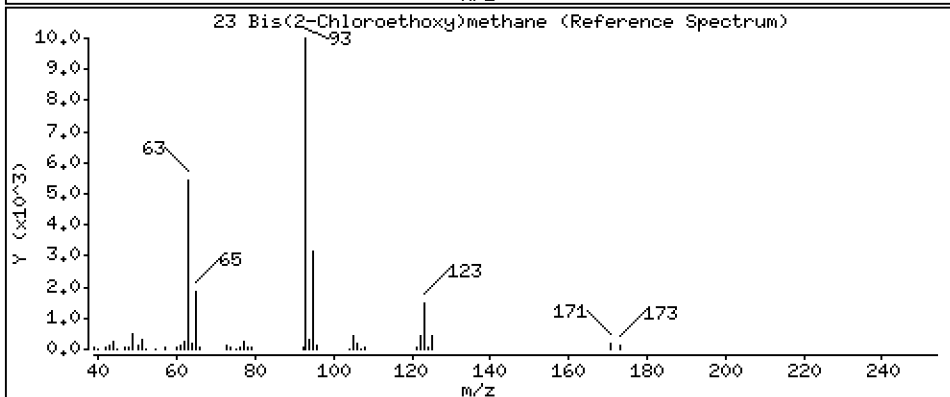
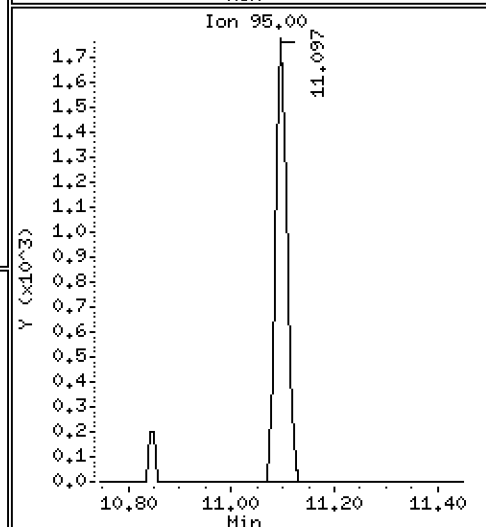
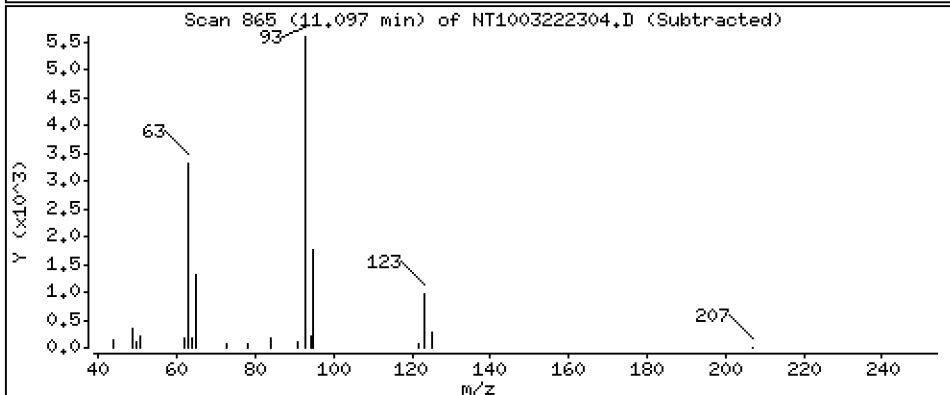
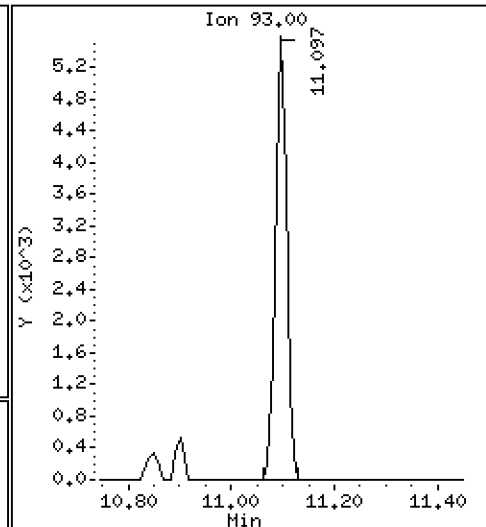
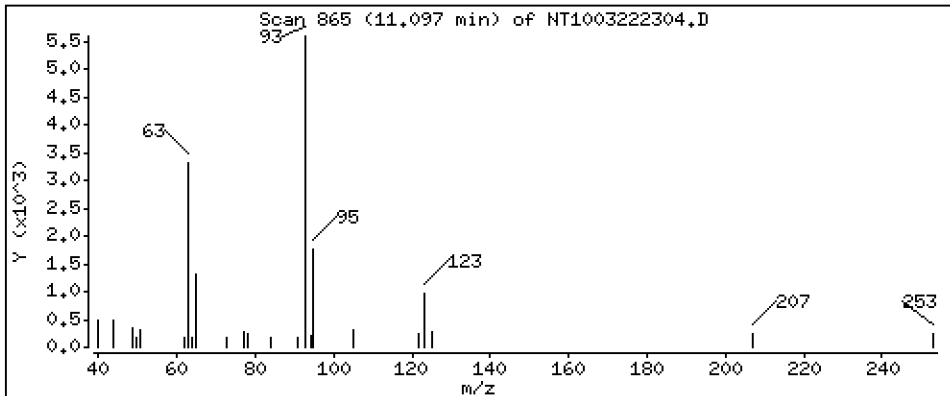
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

23 Bis(2-Chloroethoxy)methane

Concentration: 0,1943 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

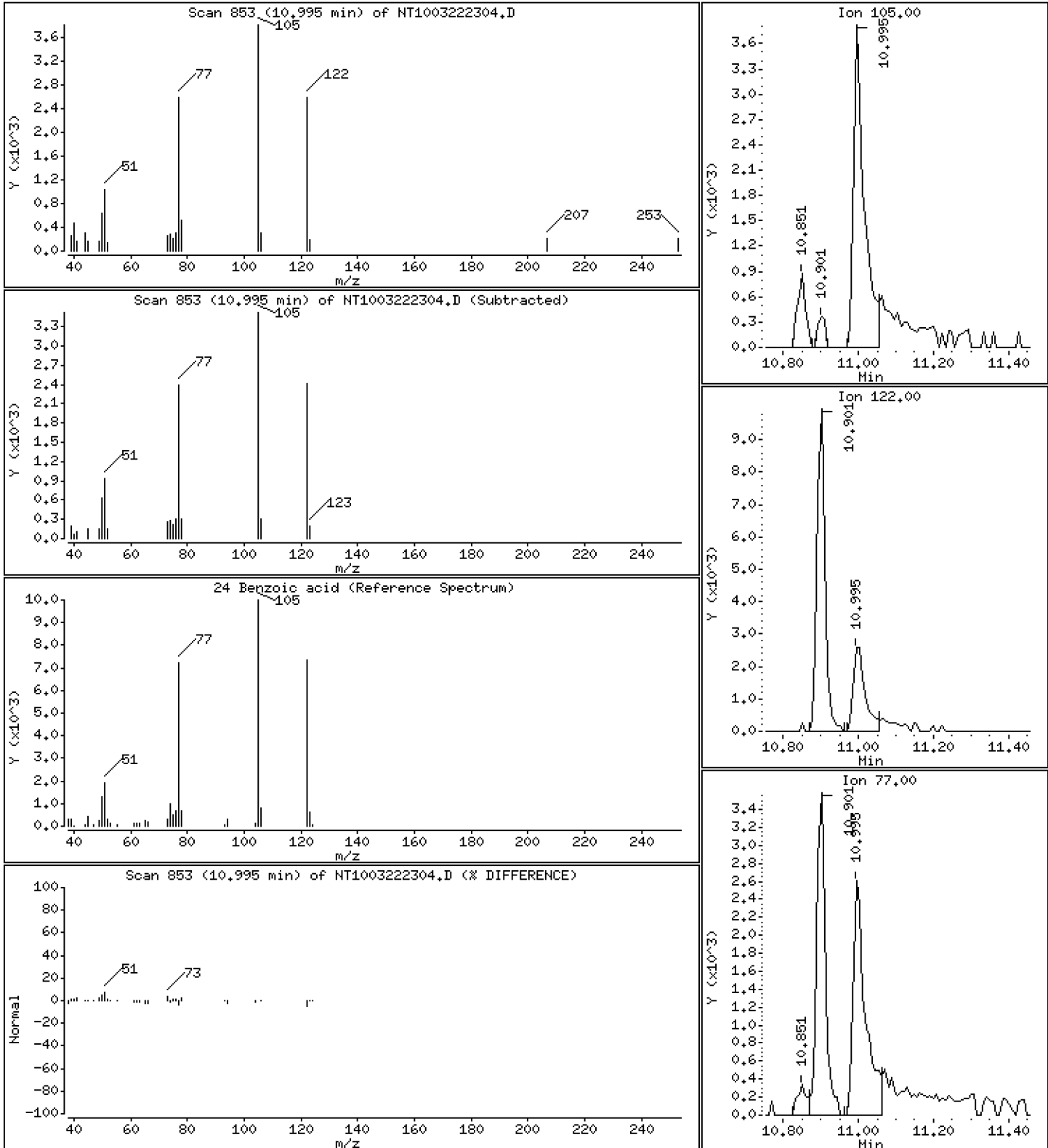
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

24 Benzoic acid

Concentration: 0,3047 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

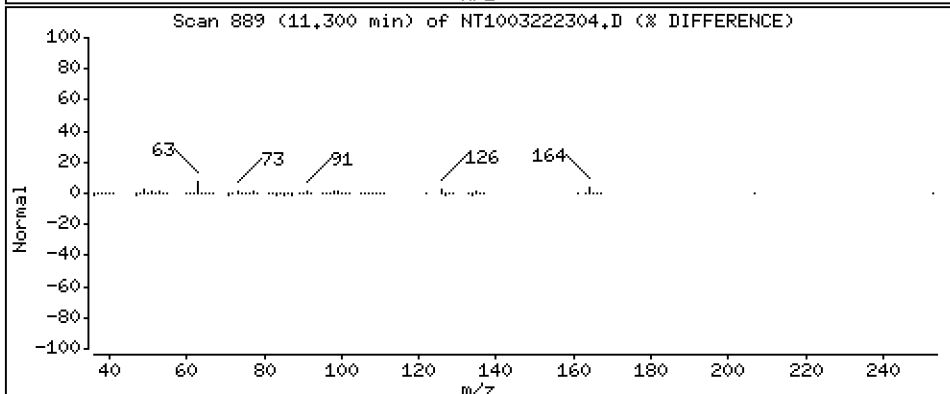
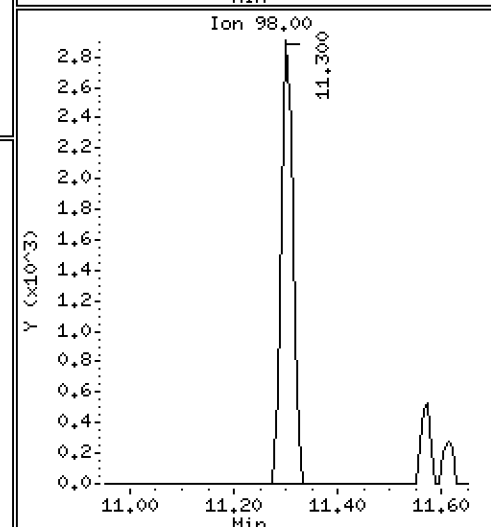
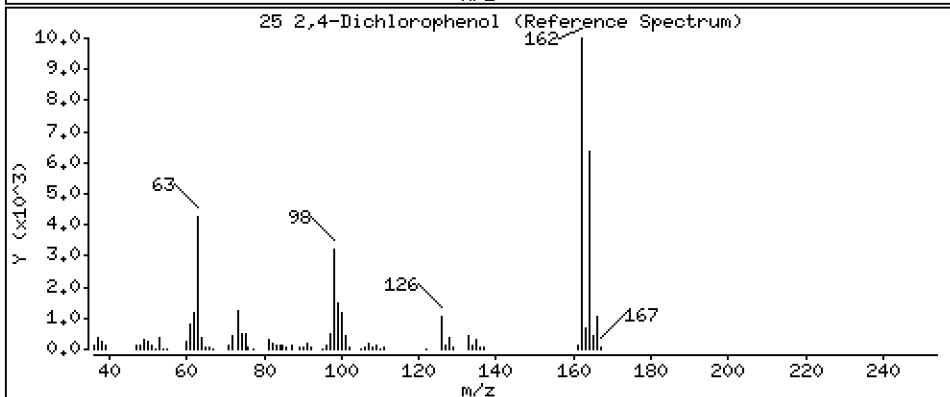
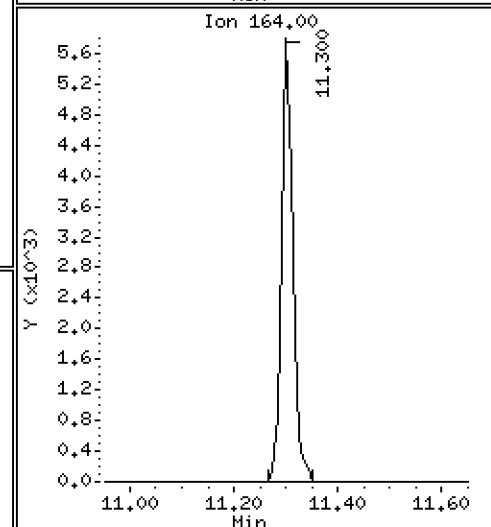
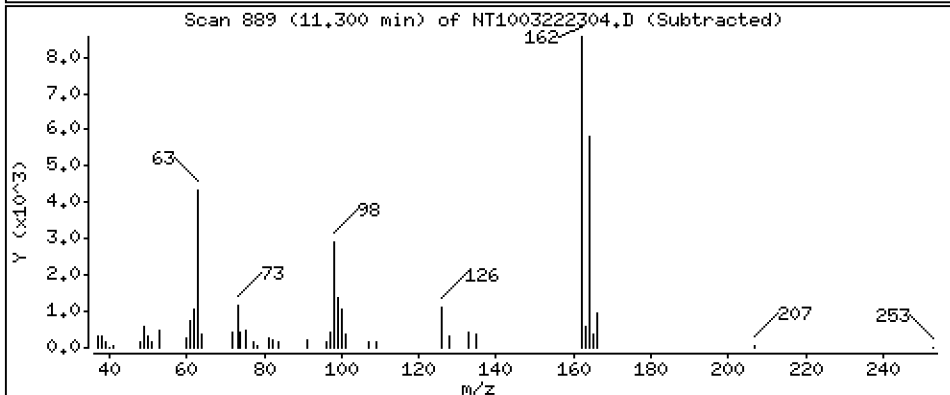
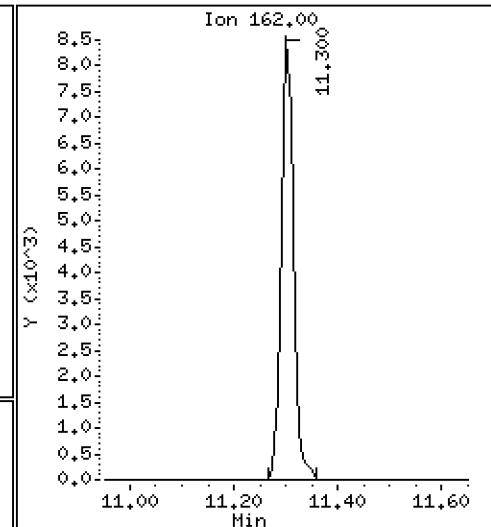
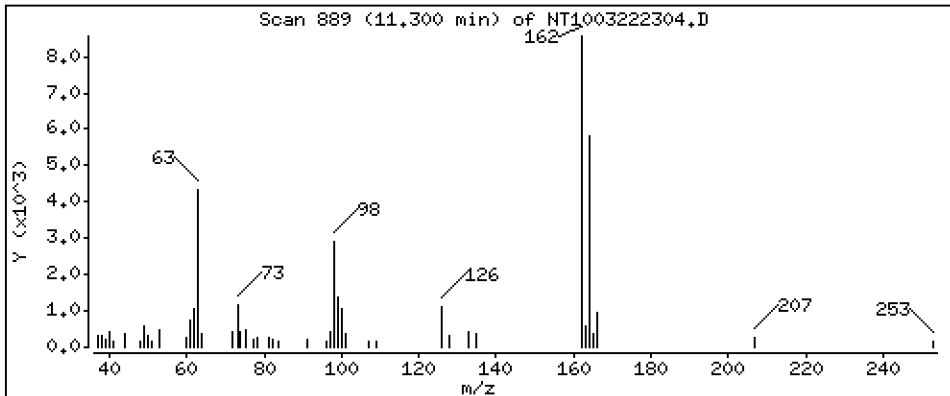
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 0,3777 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

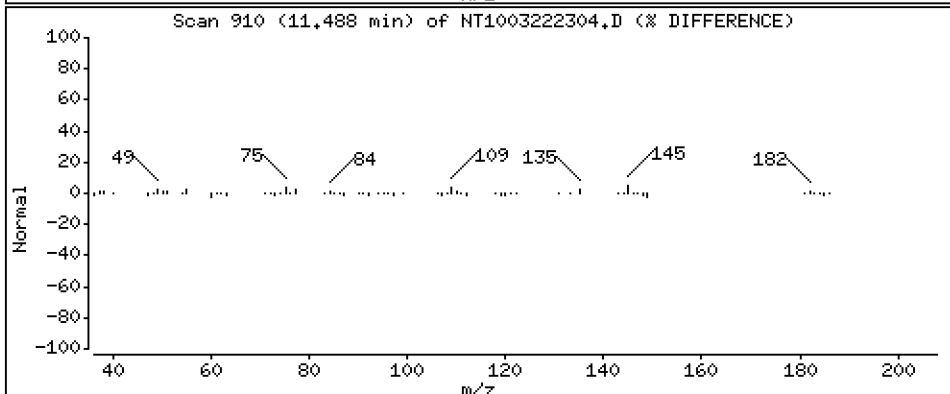
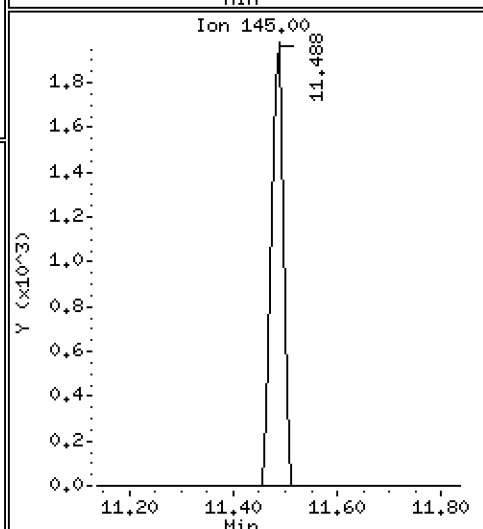
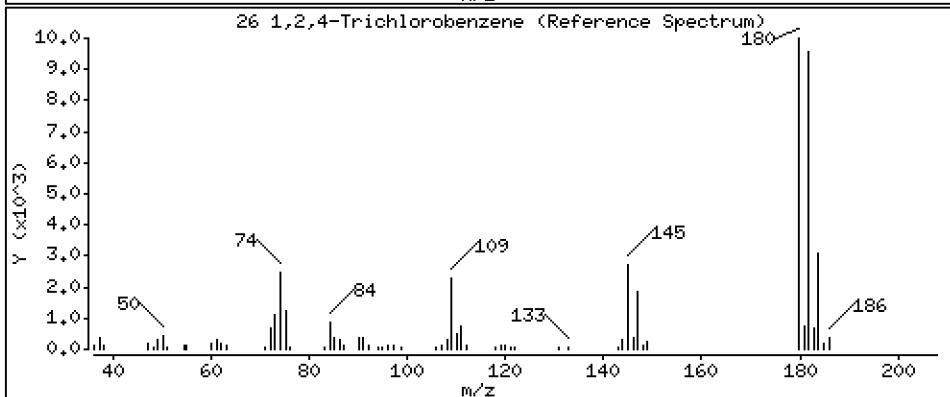
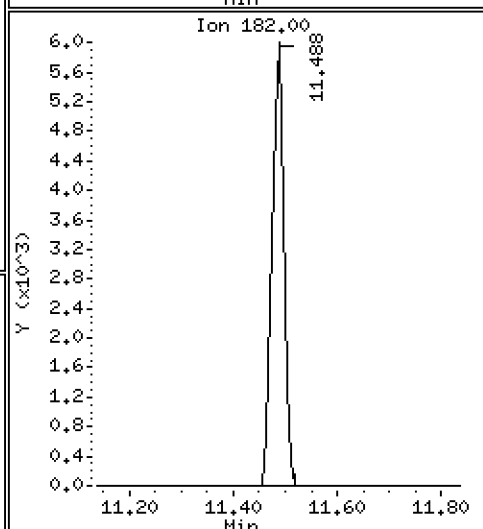
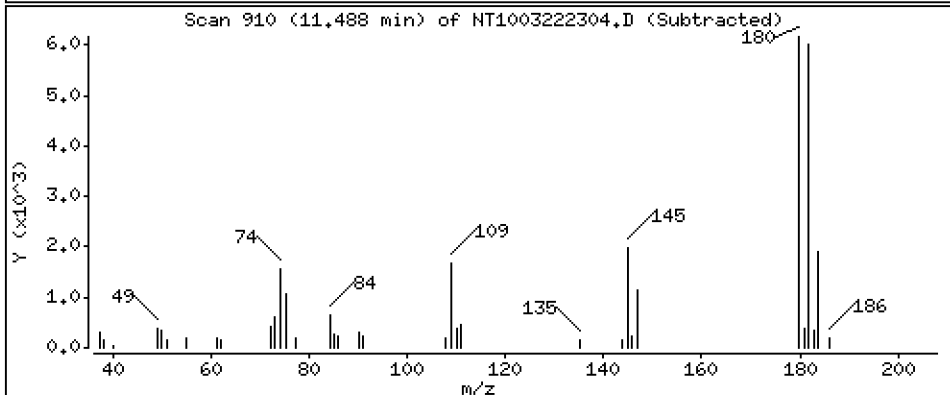
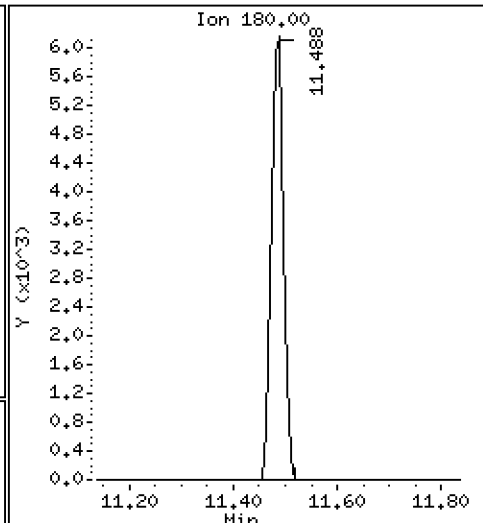
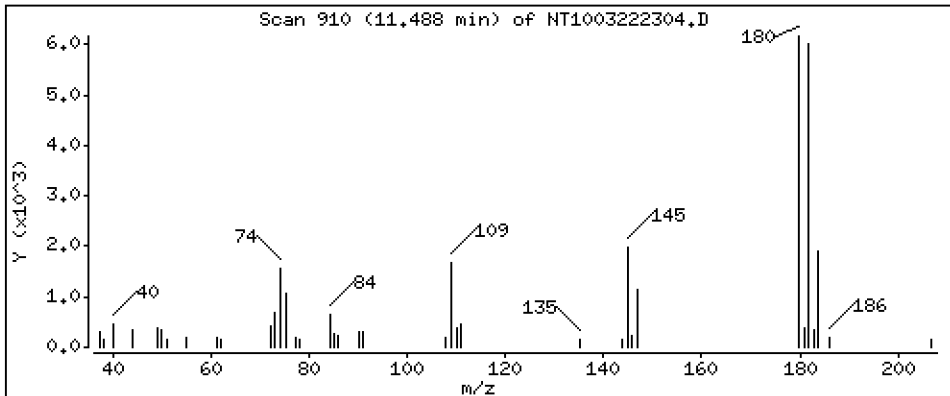
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 0,2206 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

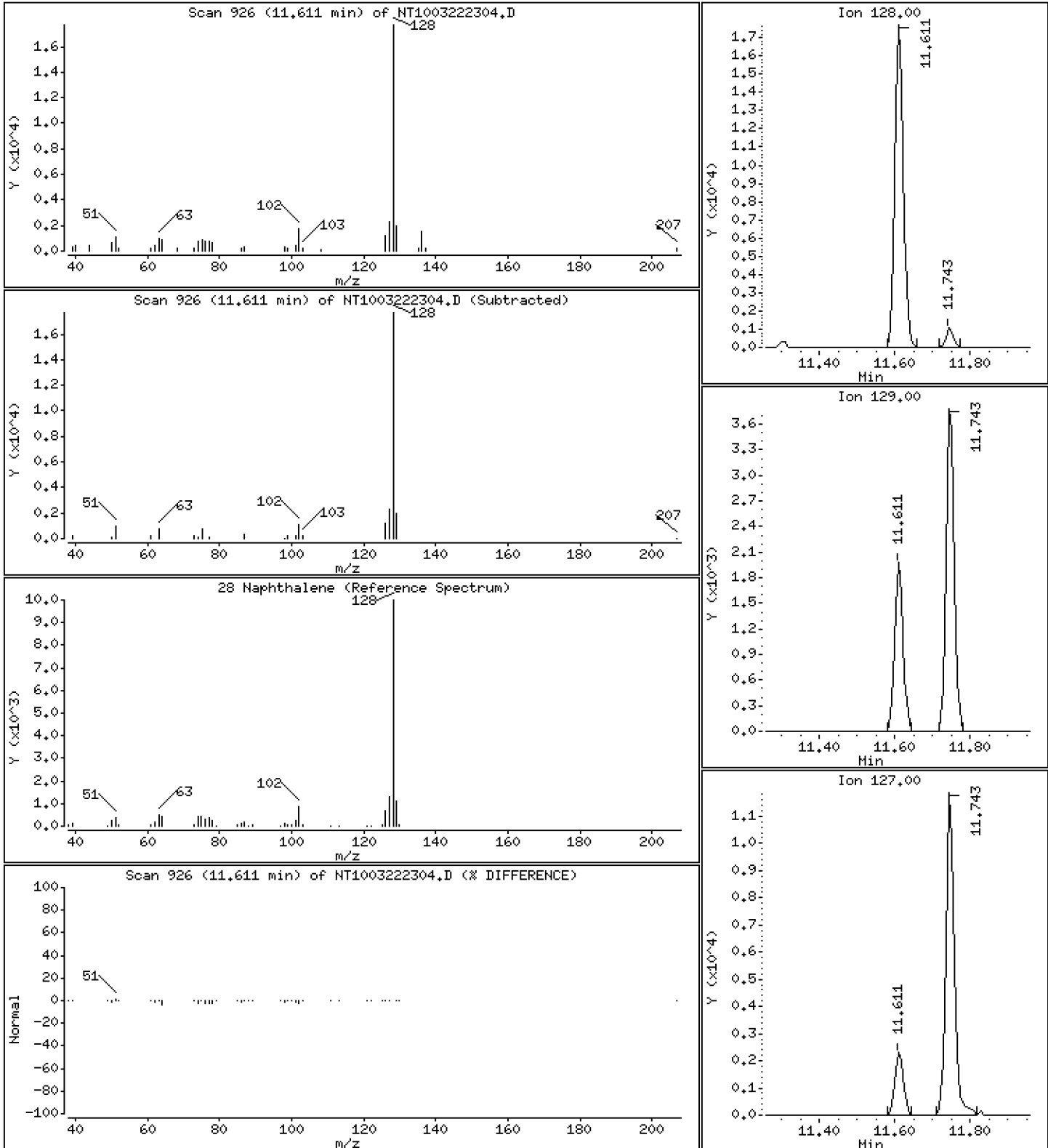
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 0,2102 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

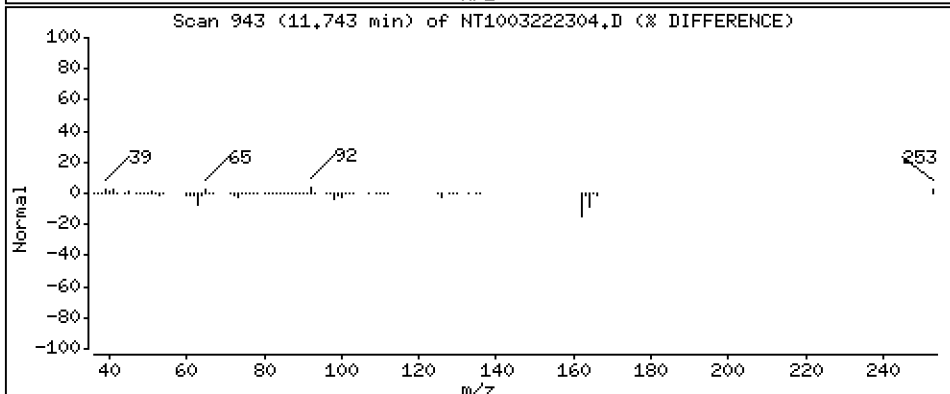
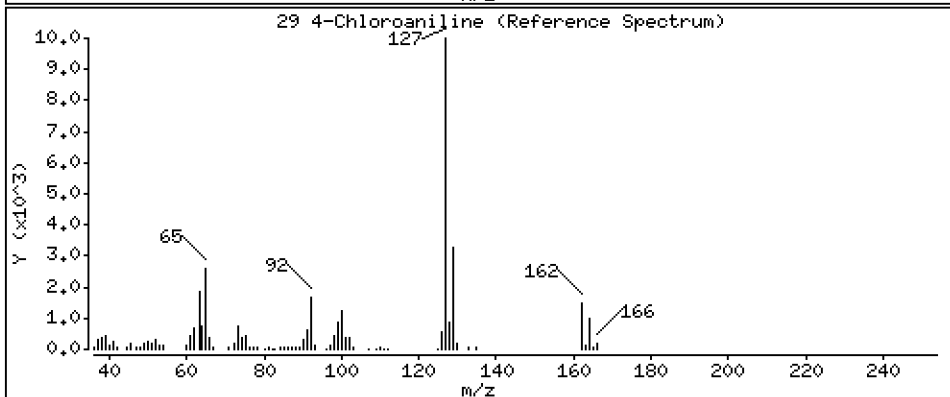
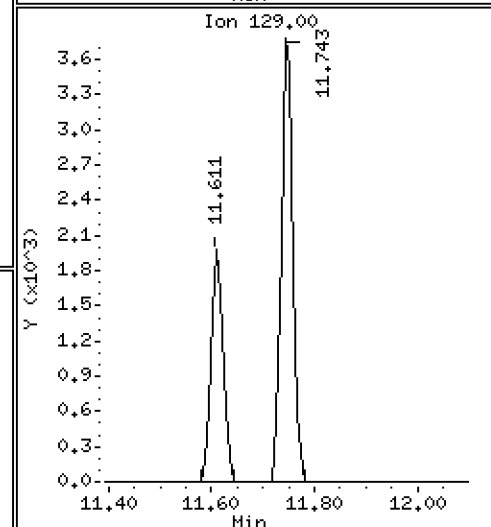
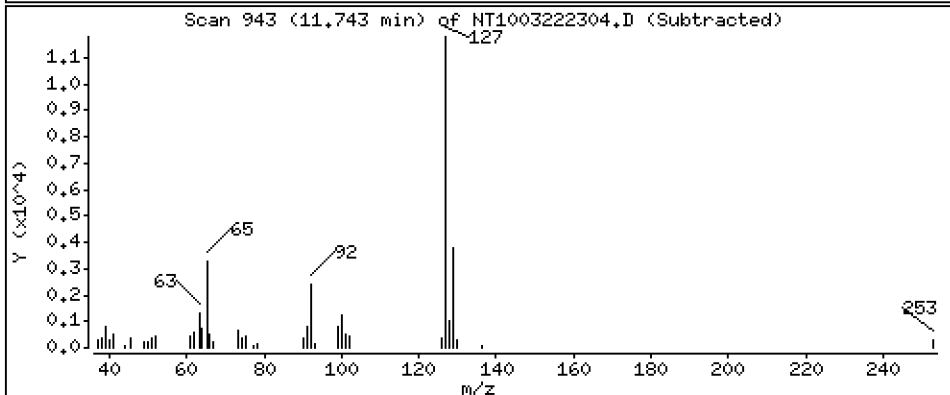
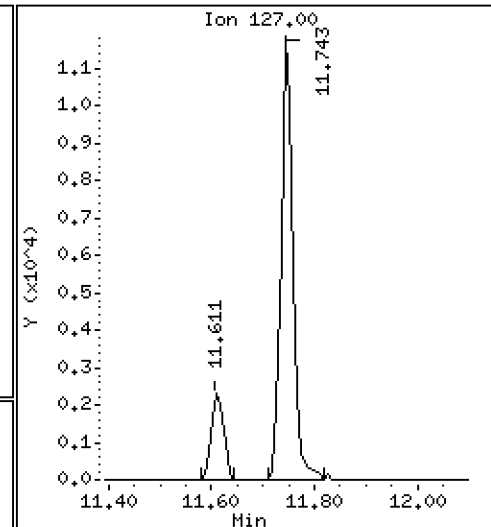
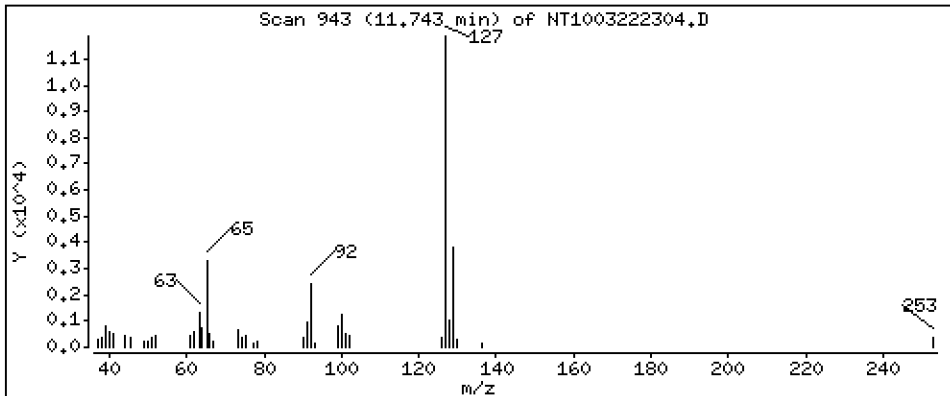
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

29 4-Chloroaniline

Concentration: 0,3570 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

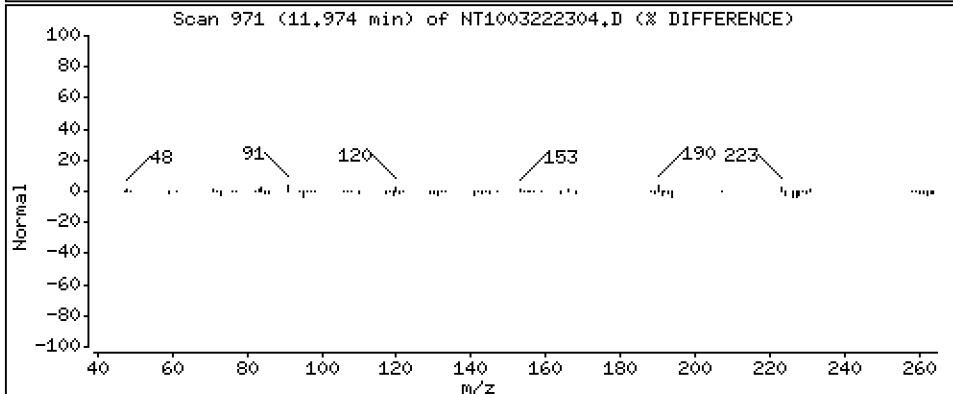
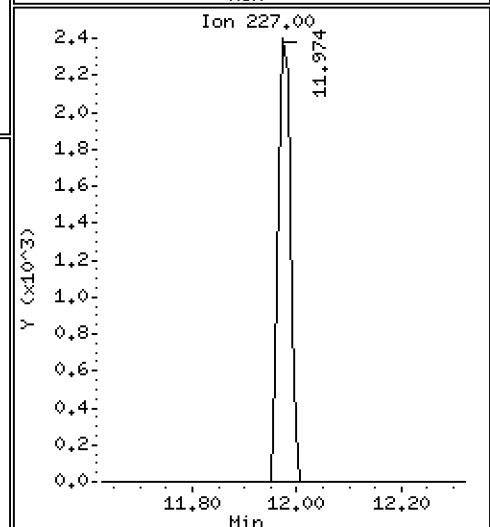
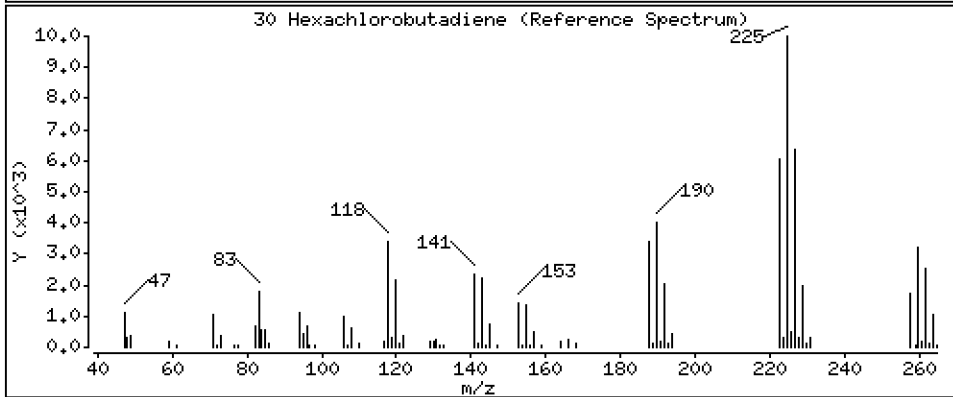
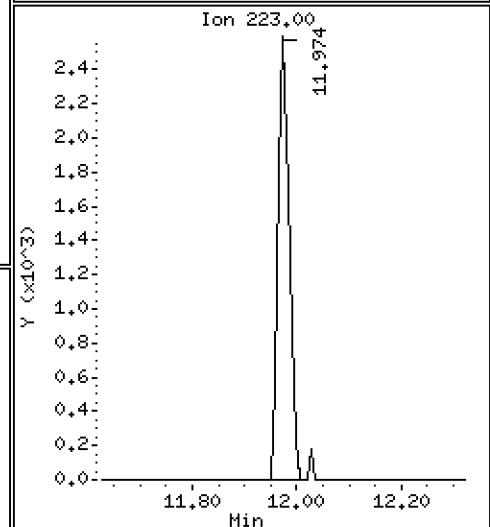
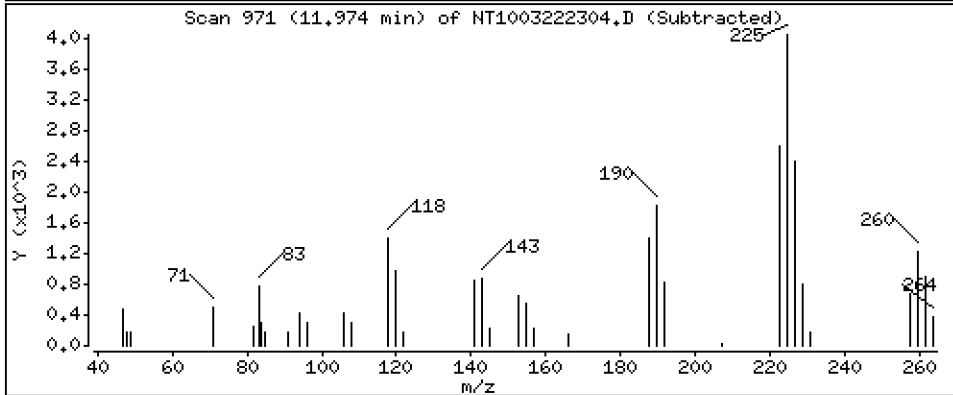
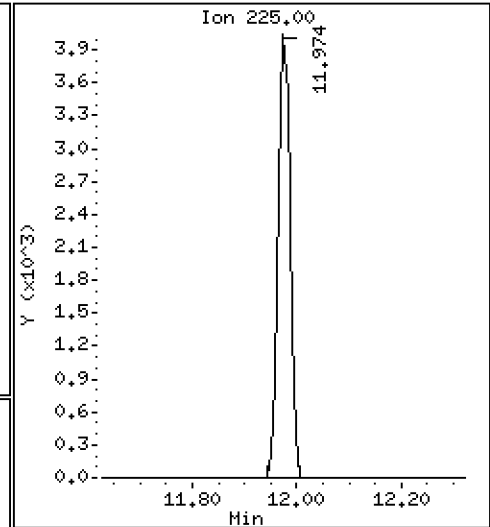
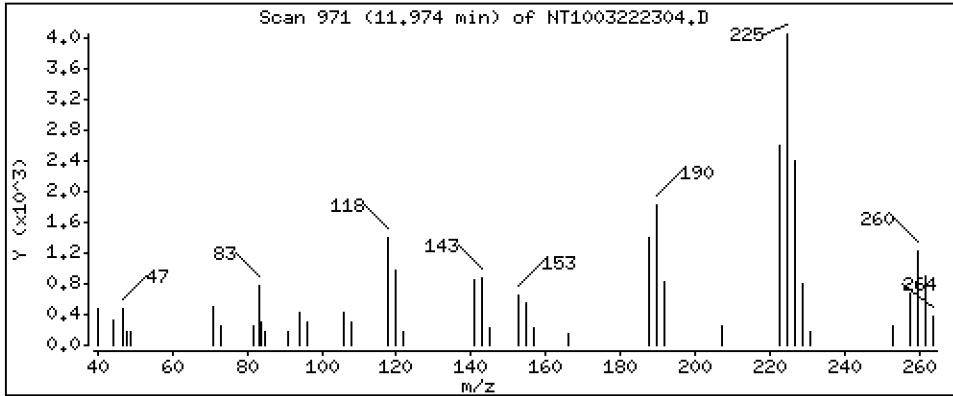
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 0,2388 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

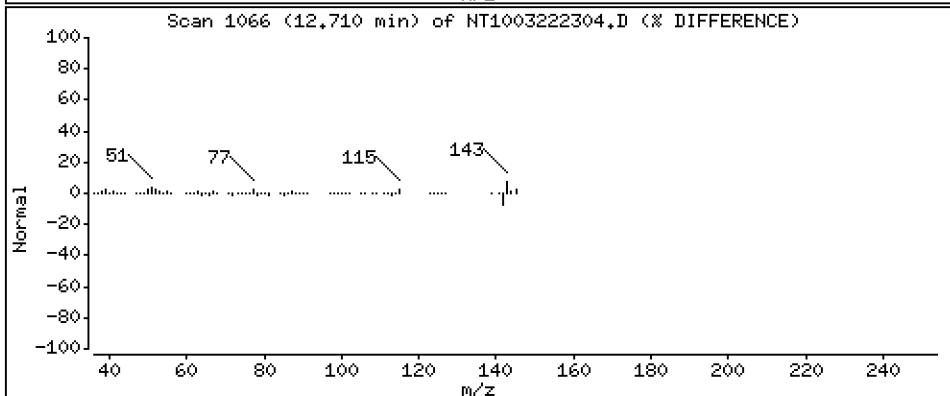
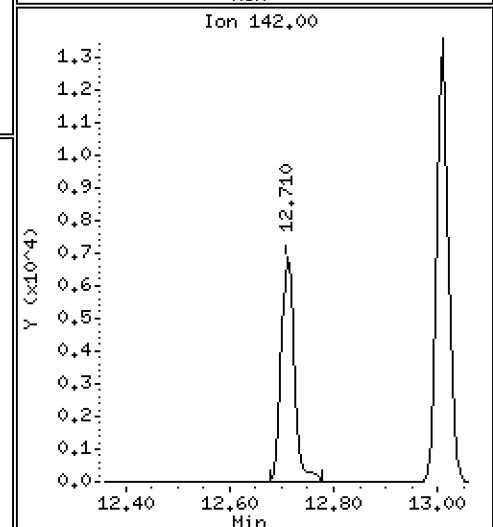
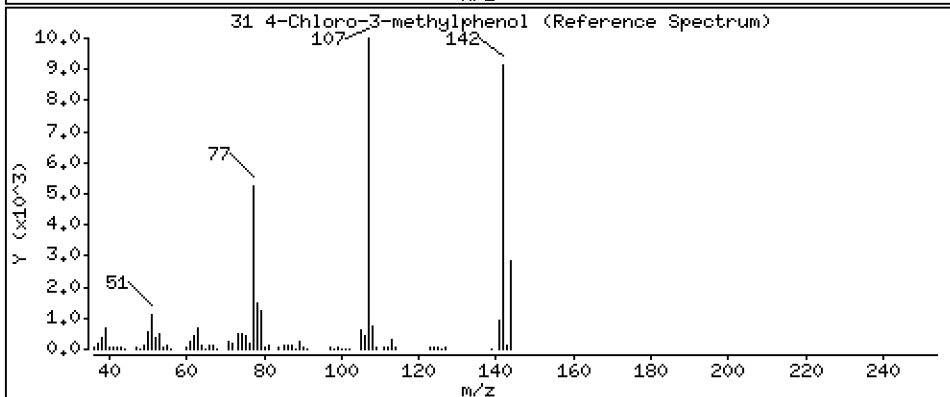
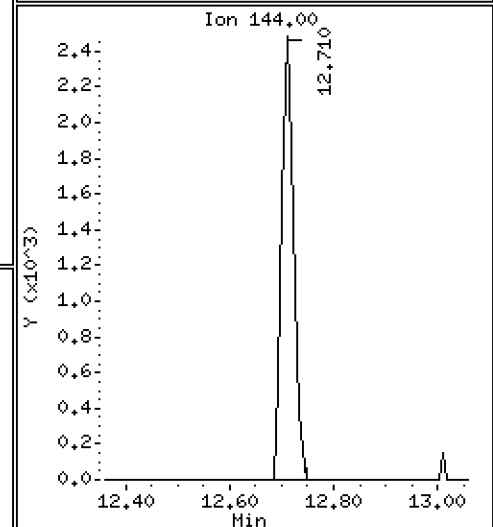
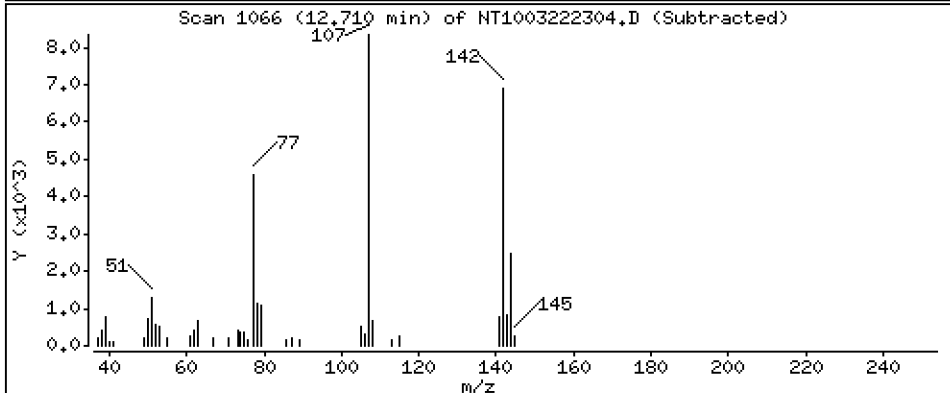
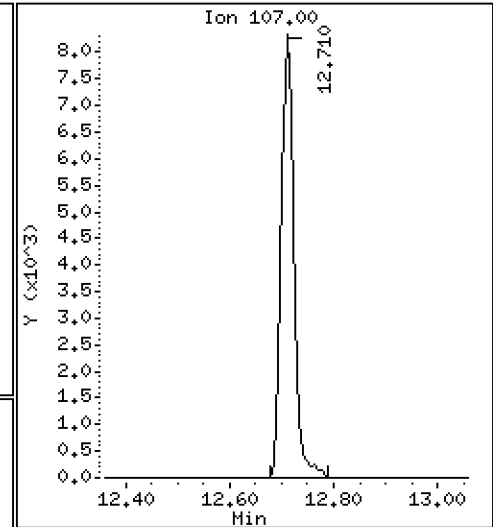
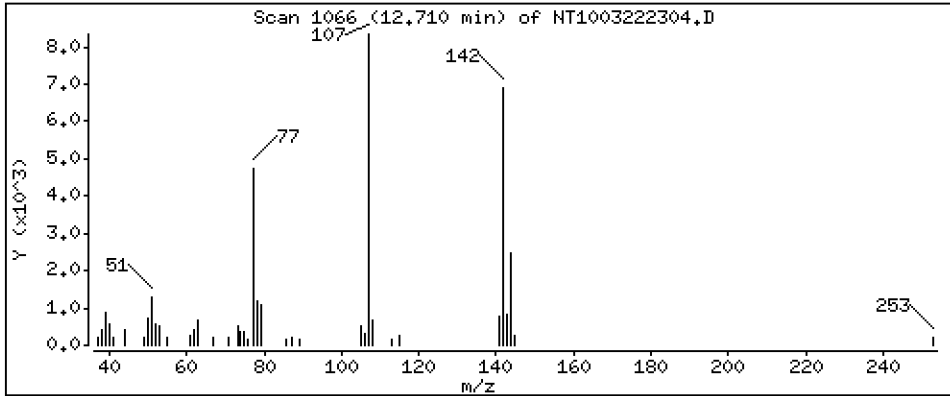
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

31 4-Chloro-3-methylphenol

Concentration: 0,3375 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

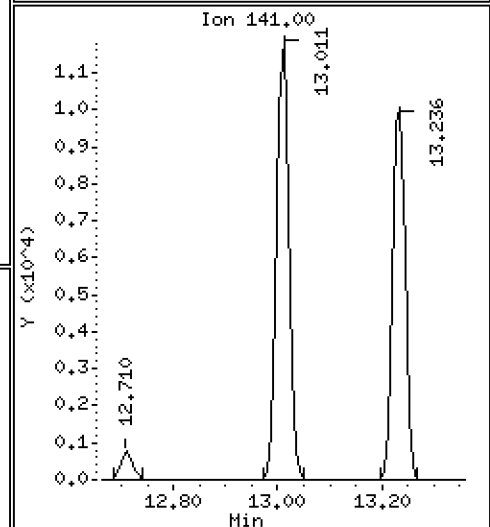
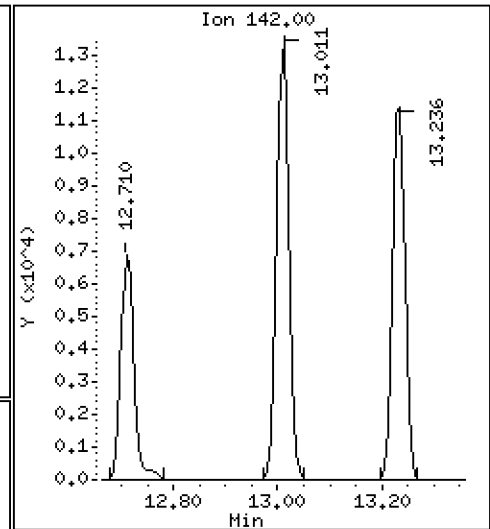
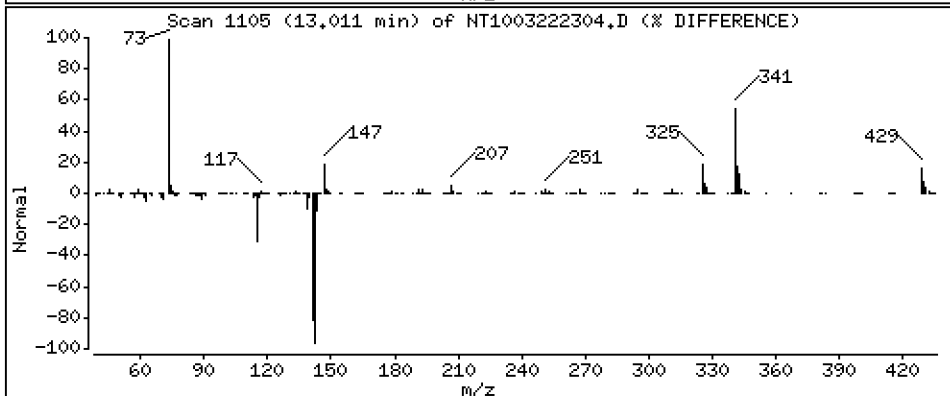
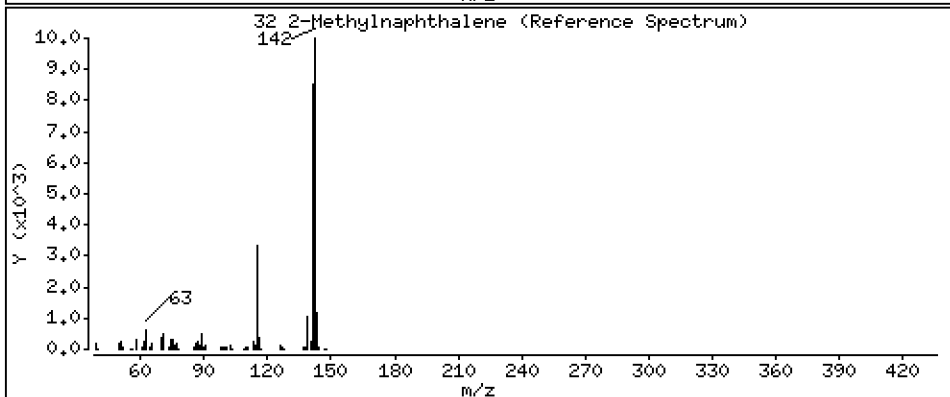
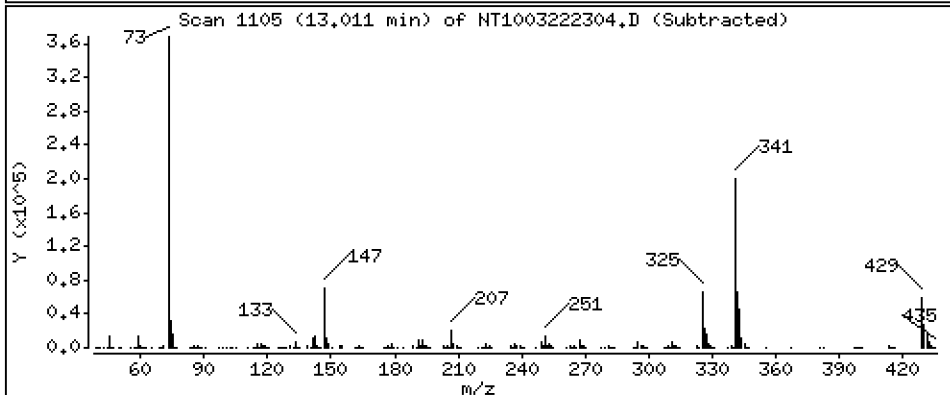
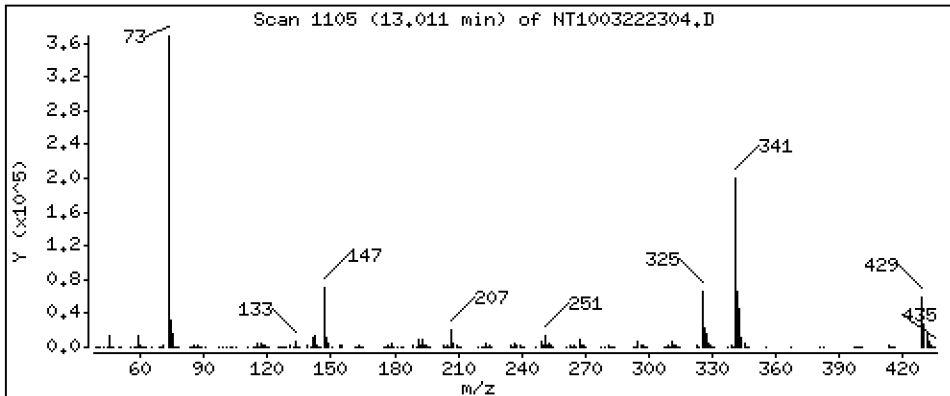
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 0,2136 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

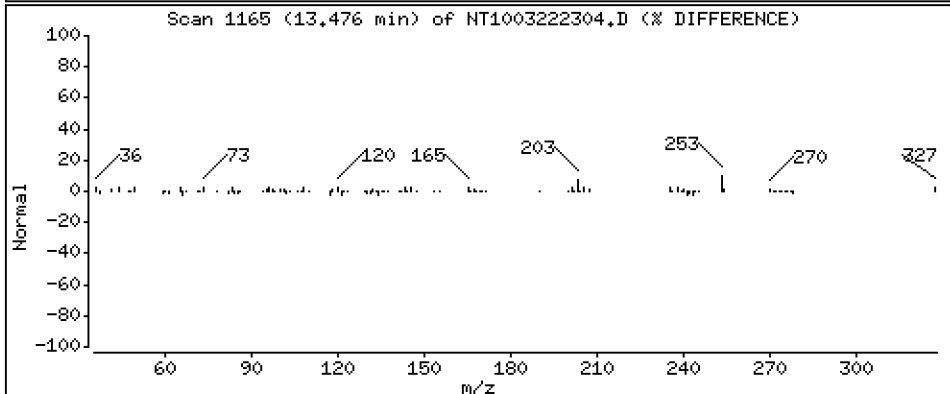
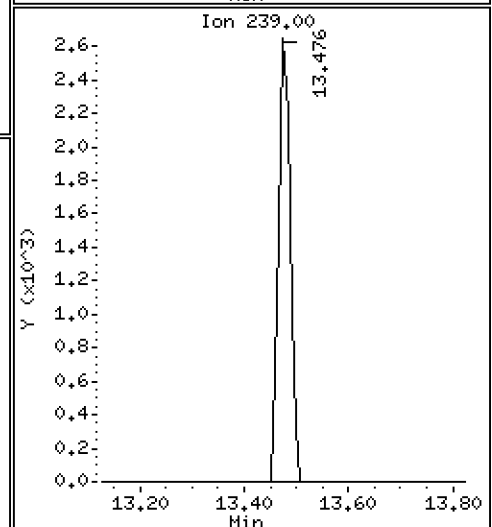
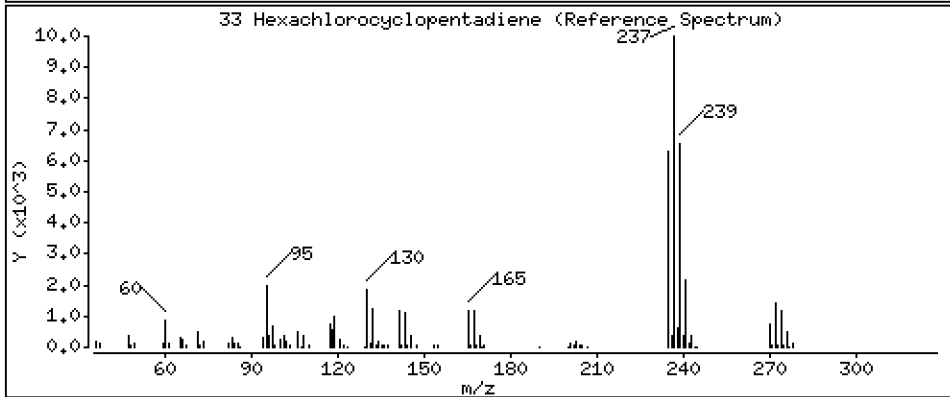
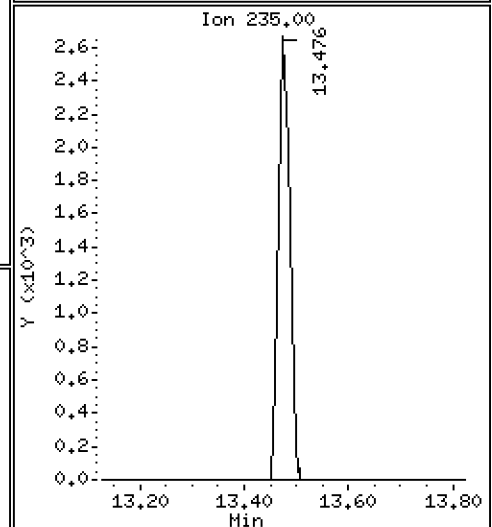
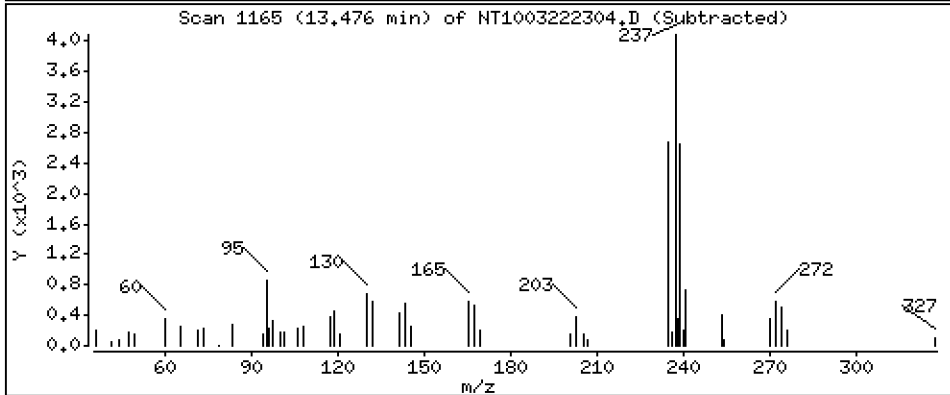
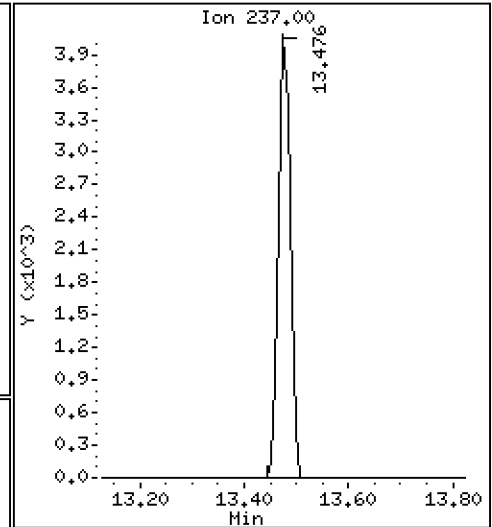
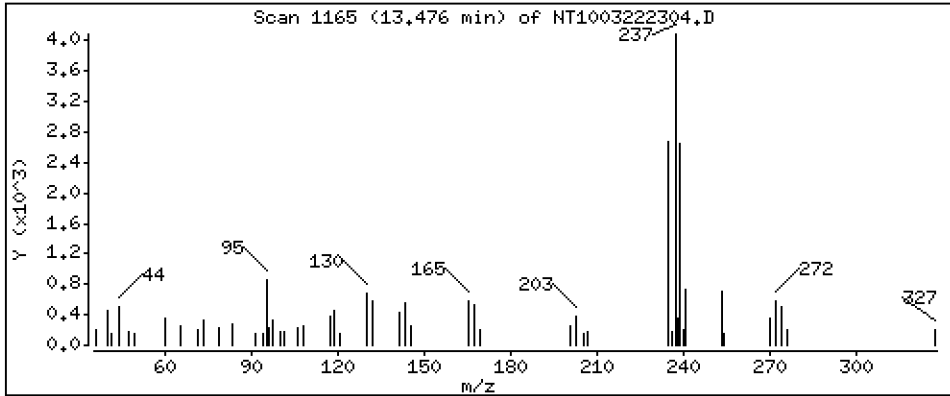
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

33 Hexachlorocyclopentadiene

Concentration: 0.2376 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

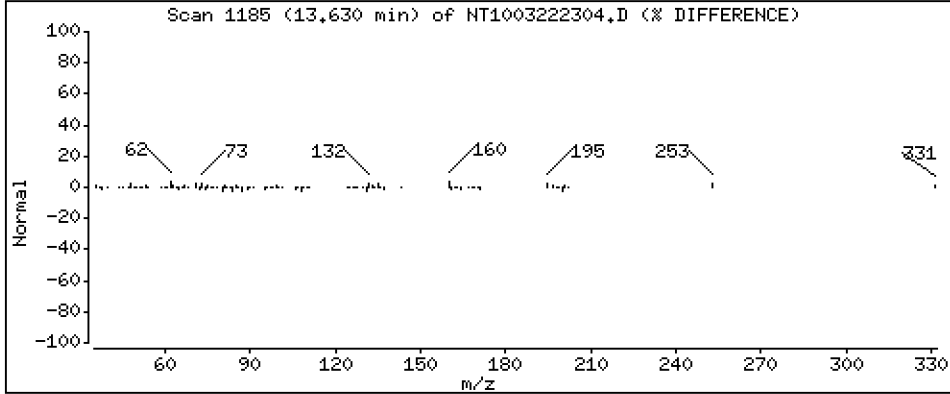
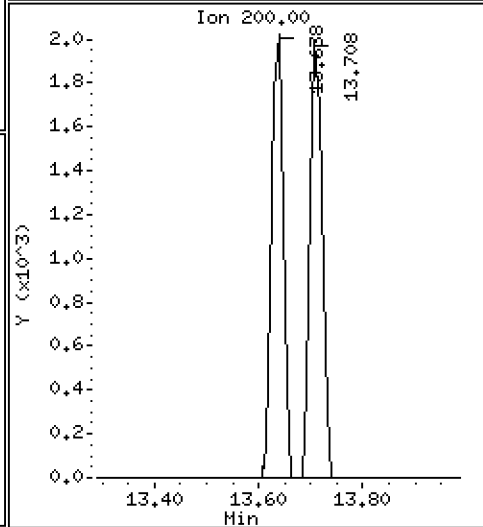
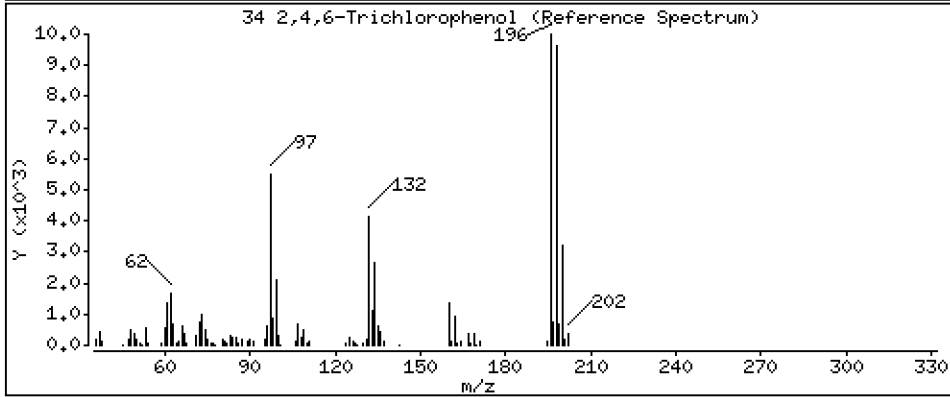
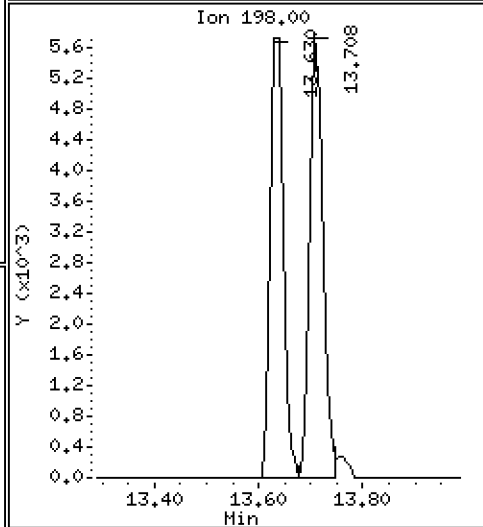
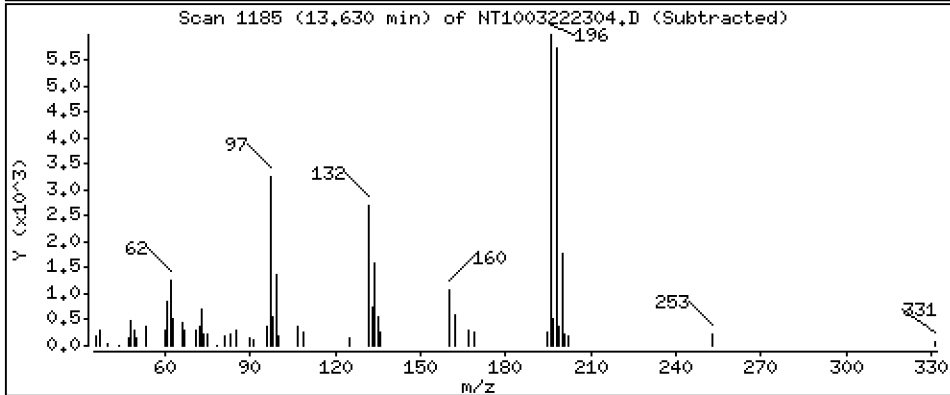
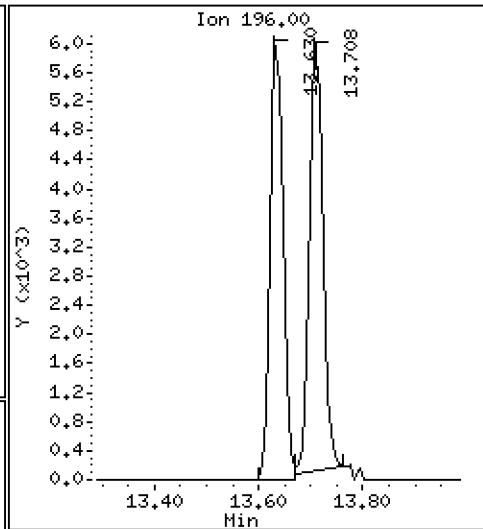
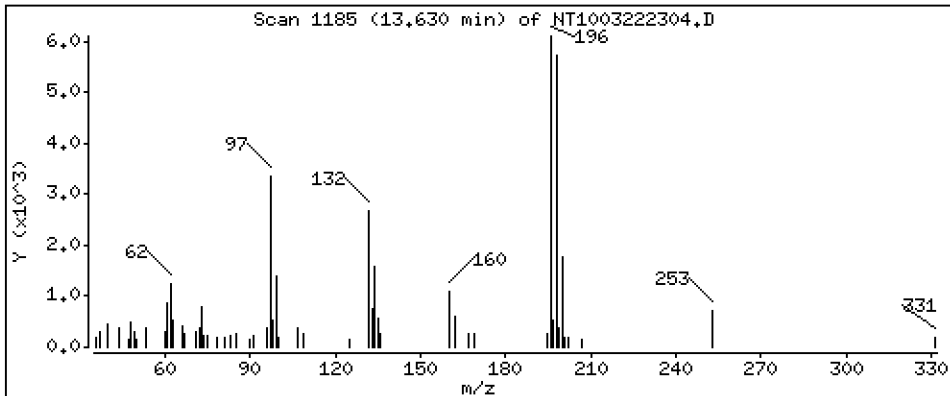
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

34 2,4,6-Trichlorophenol

Concentration: 0,3651 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

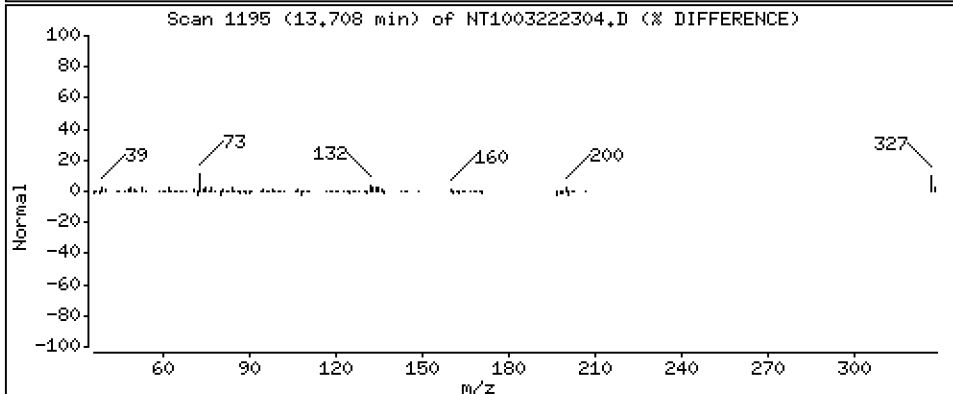
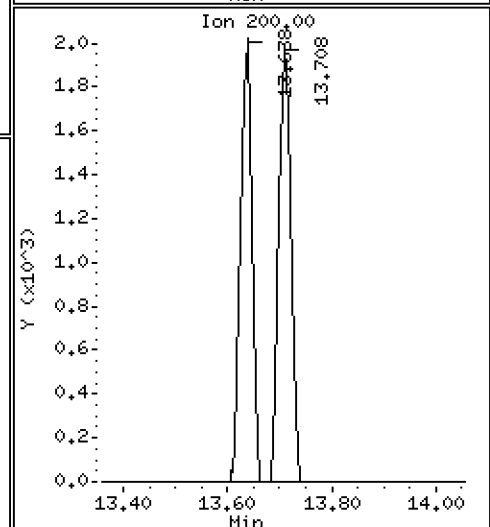
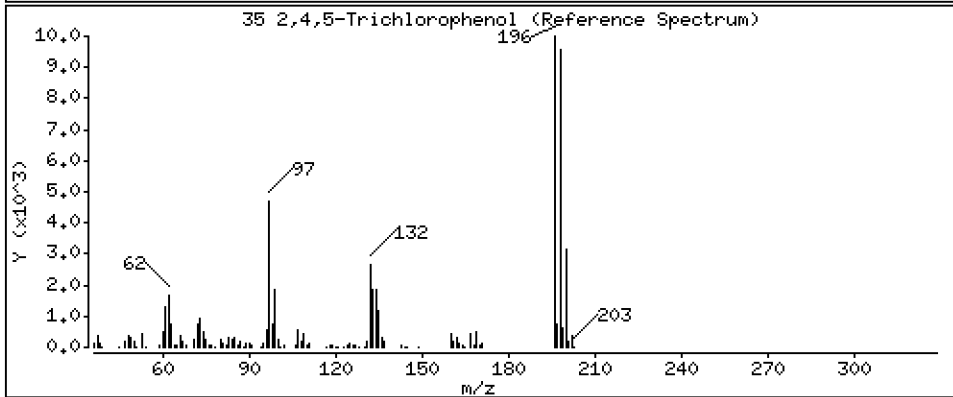
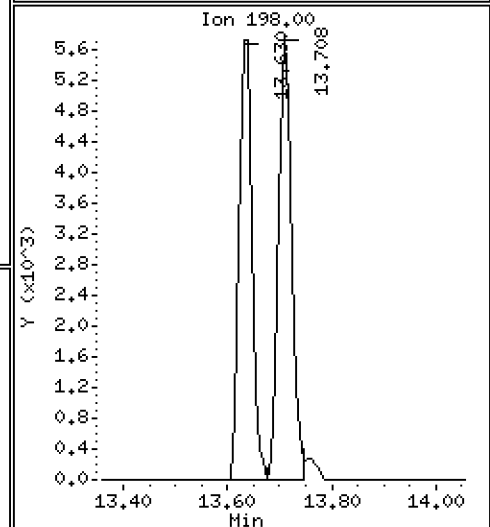
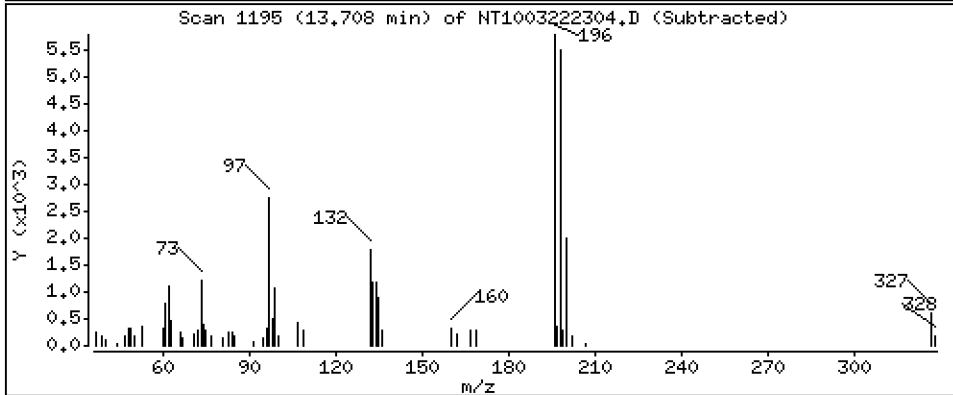
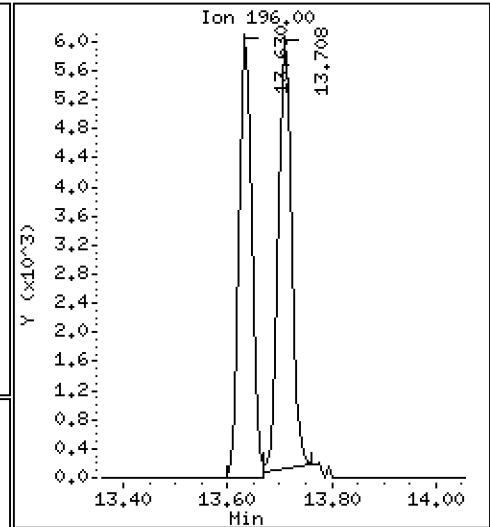
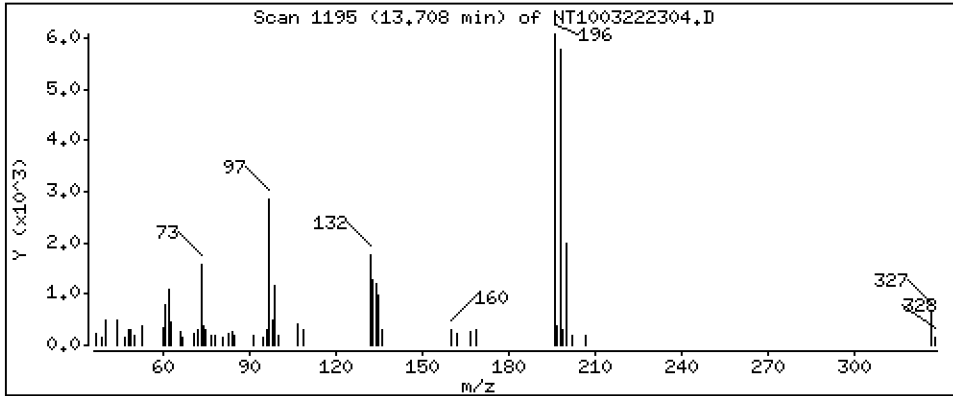
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

35 2,4,5-Trichlorophenol

Concentration: 0,3331 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

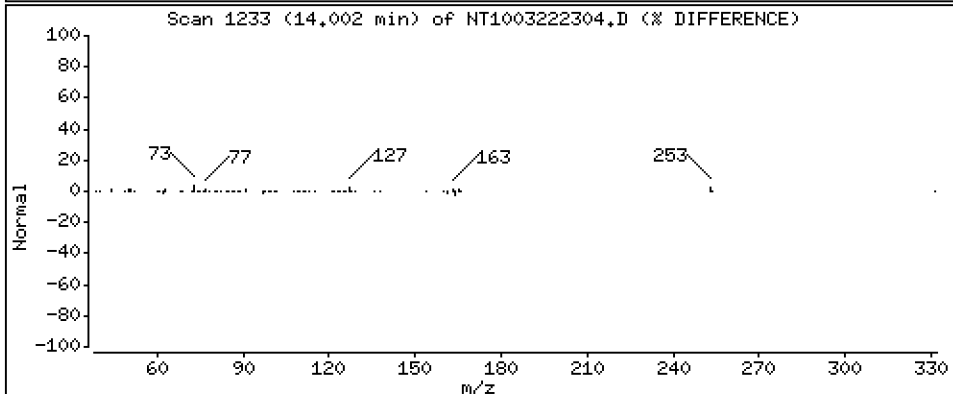
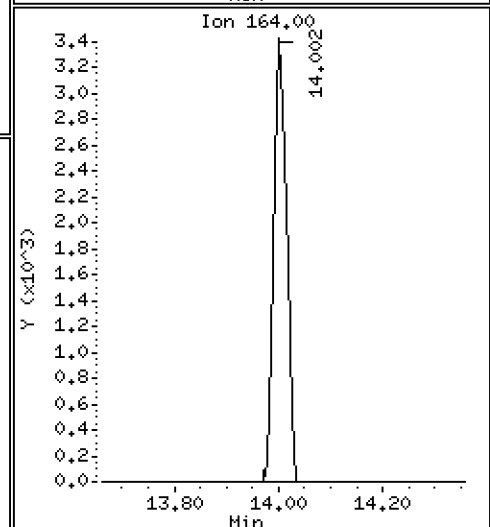
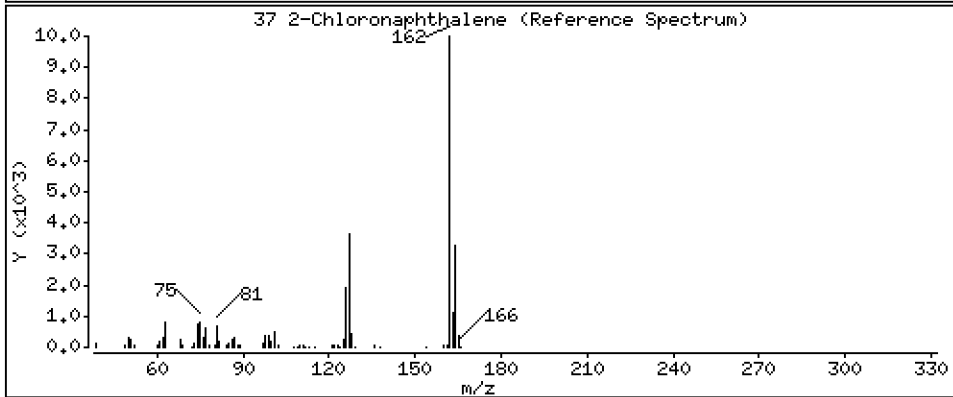
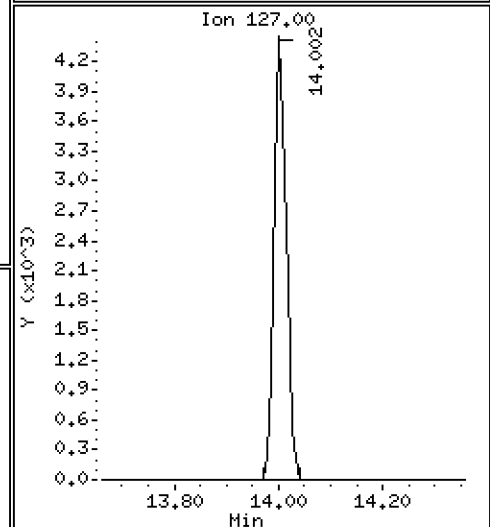
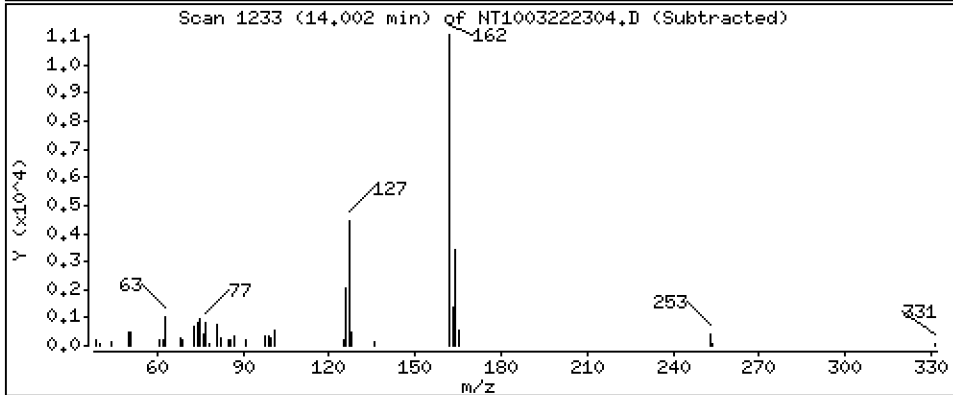
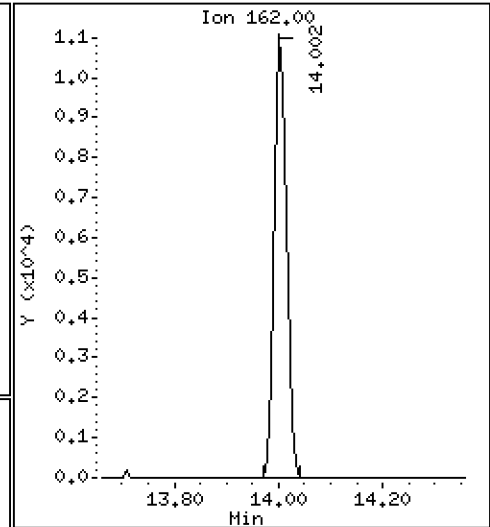
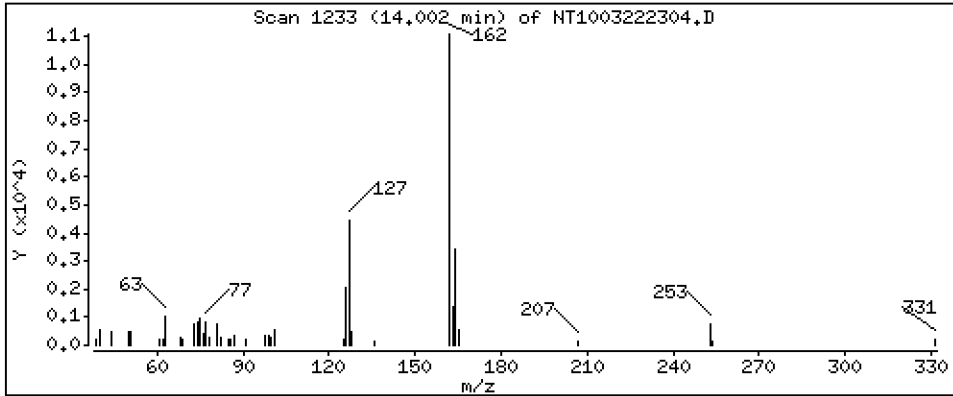
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

37 2-Chloronaphthalene

Concentration: 0.1981 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

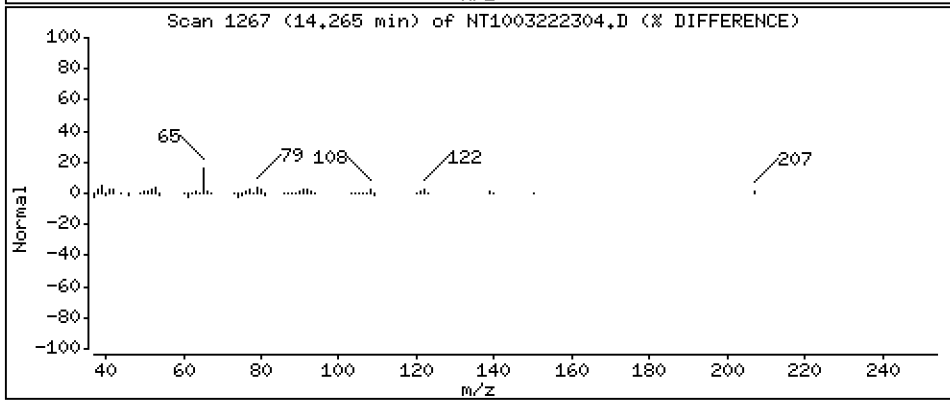
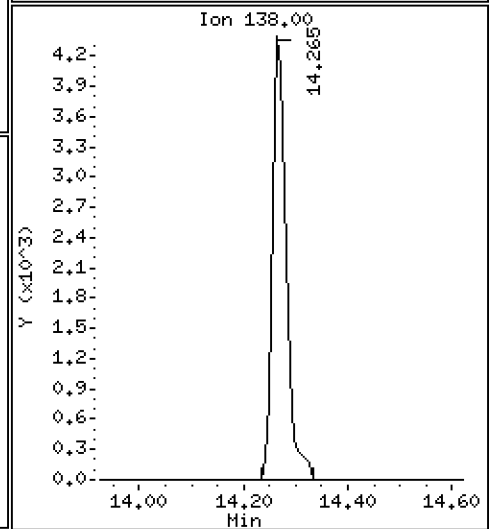
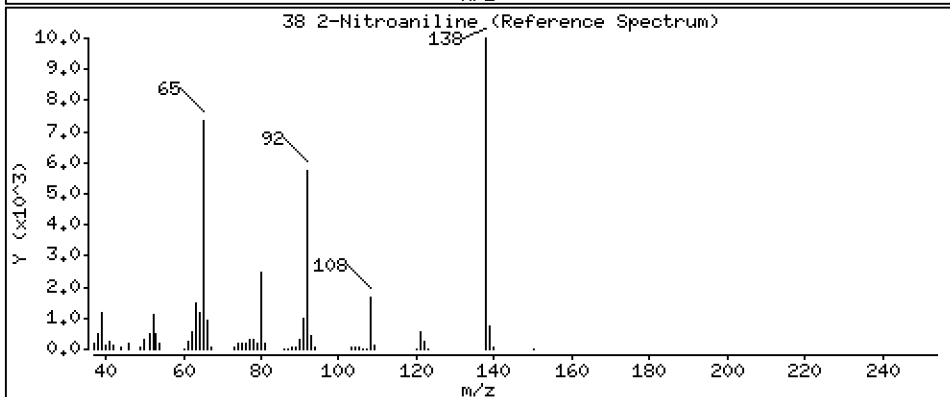
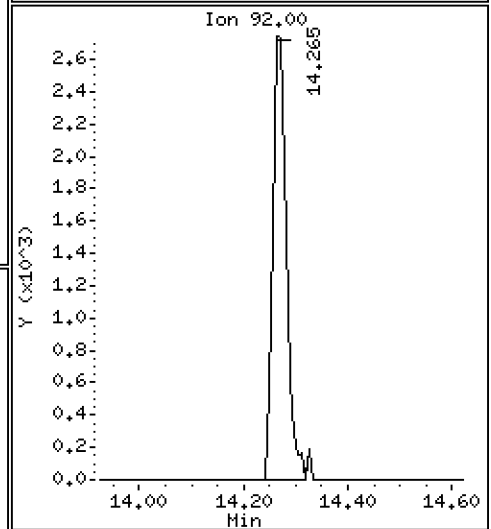
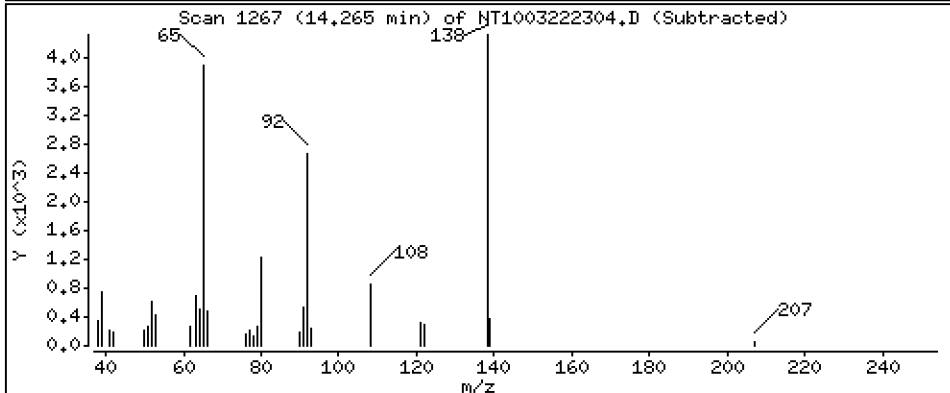
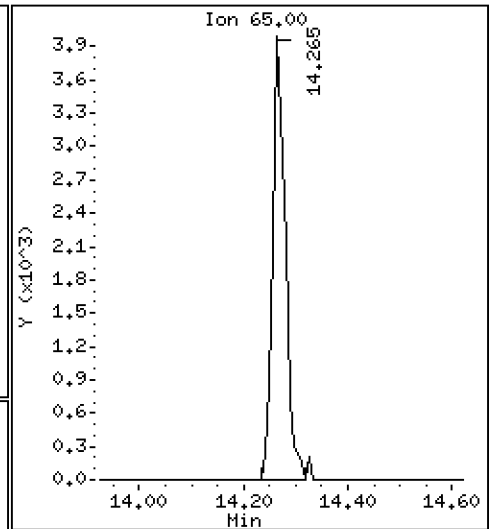
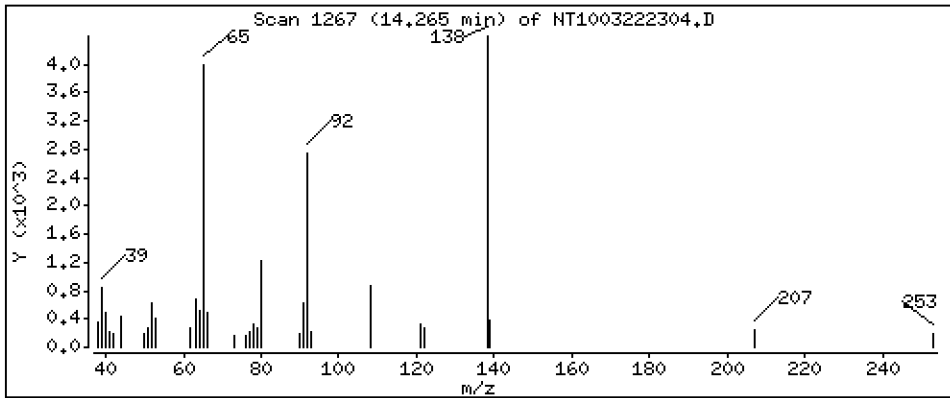
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

38 2-Nitroaniline

Concentration: 0,2630 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

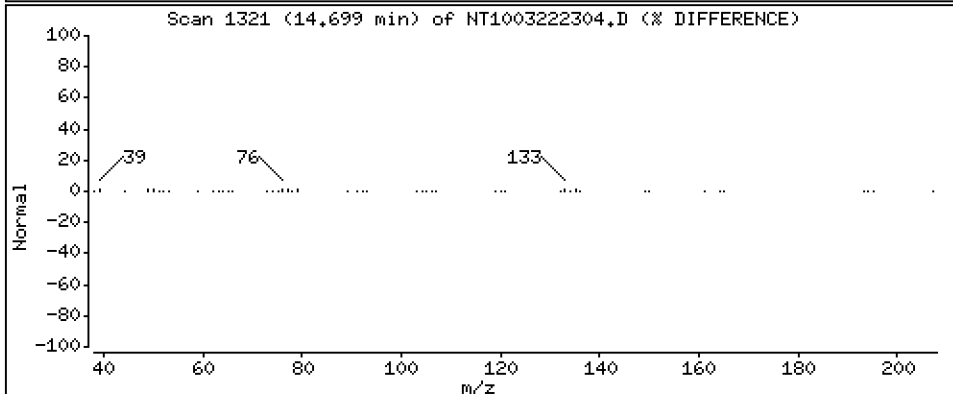
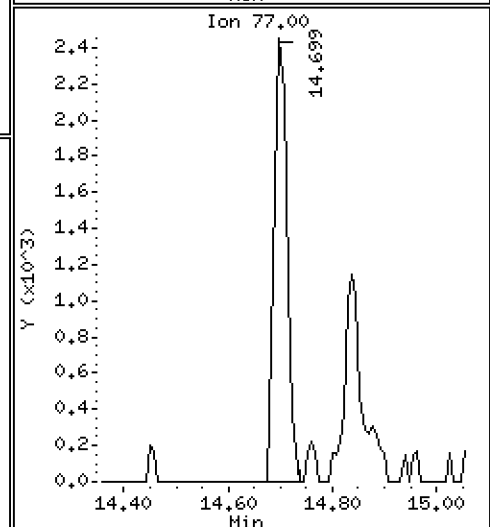
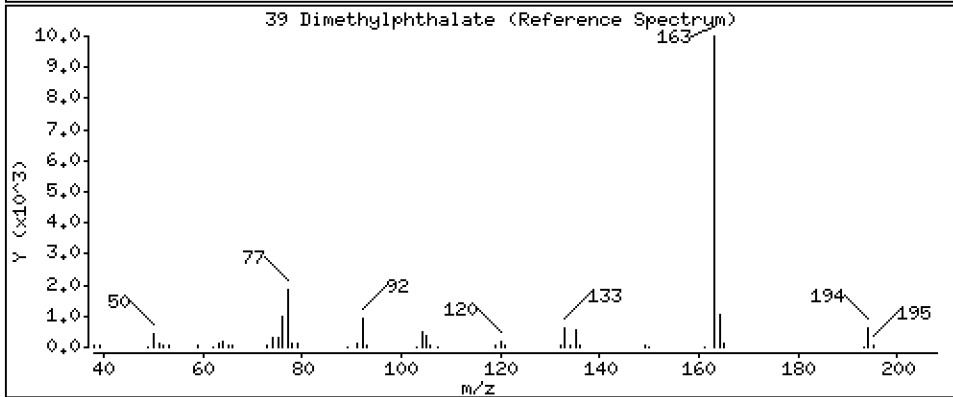
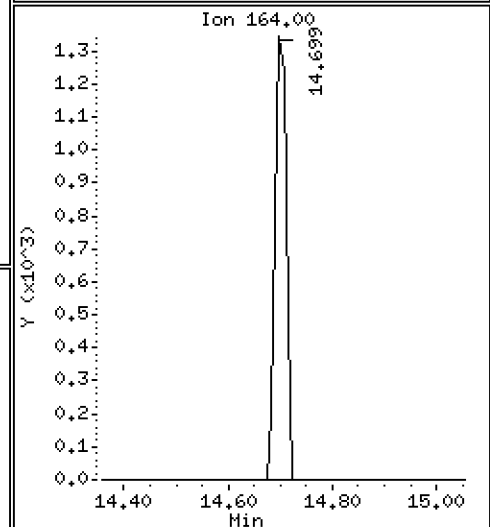
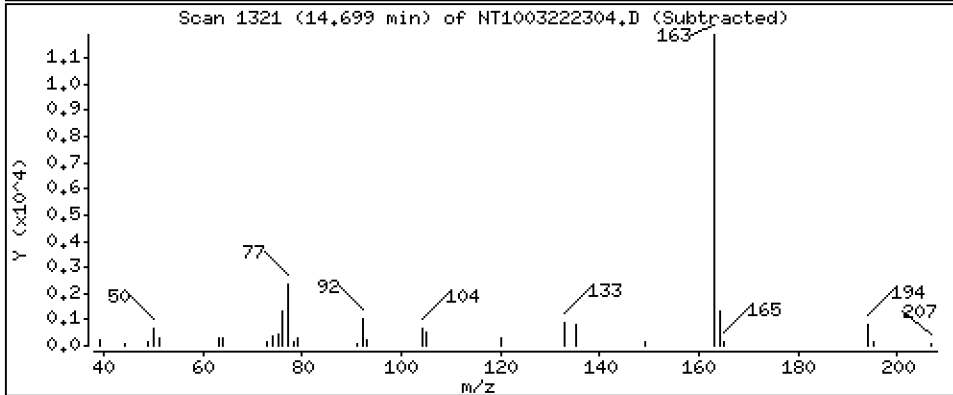
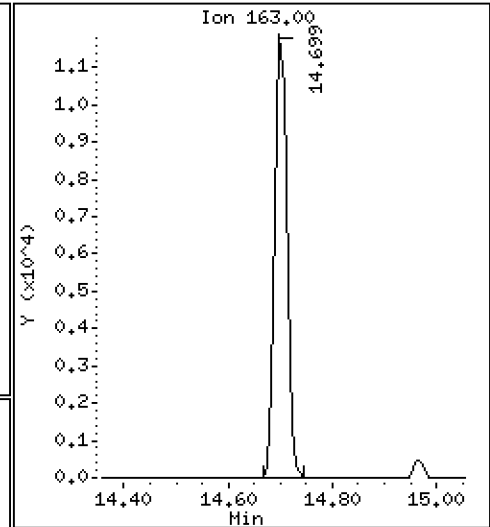
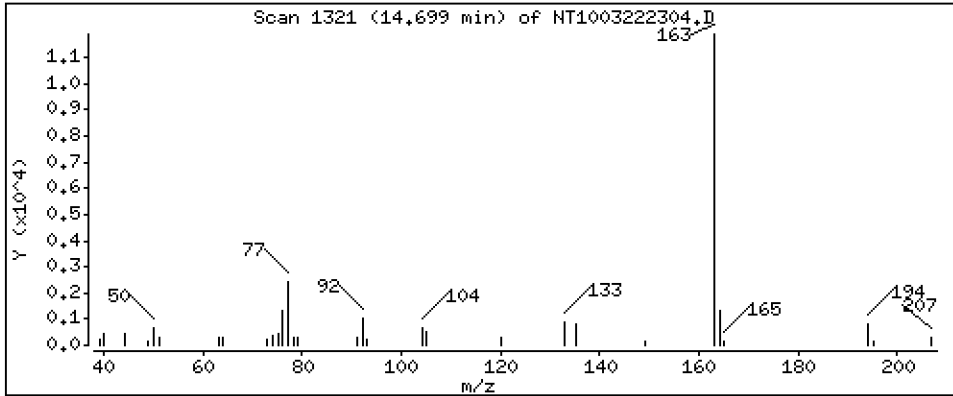
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

39 Dimethylphthalate

Concentration: 0.2038 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

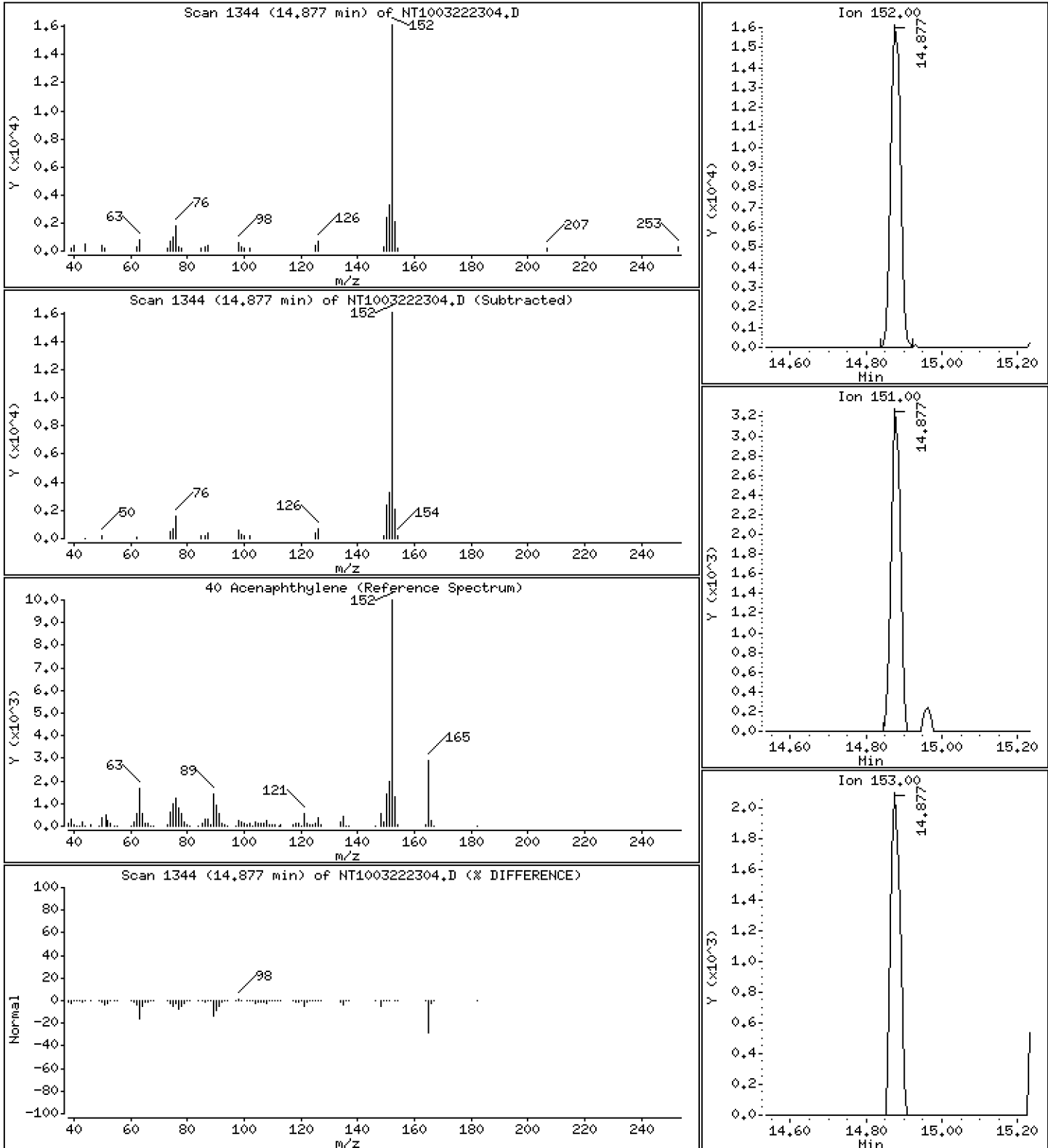
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 0,1982 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

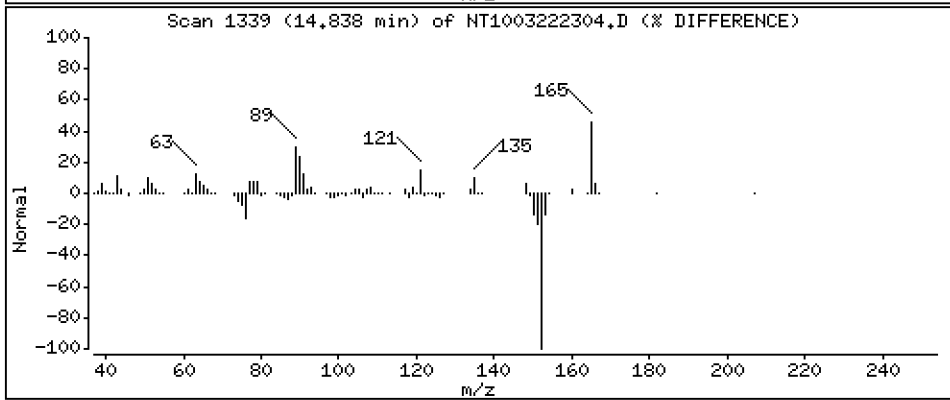
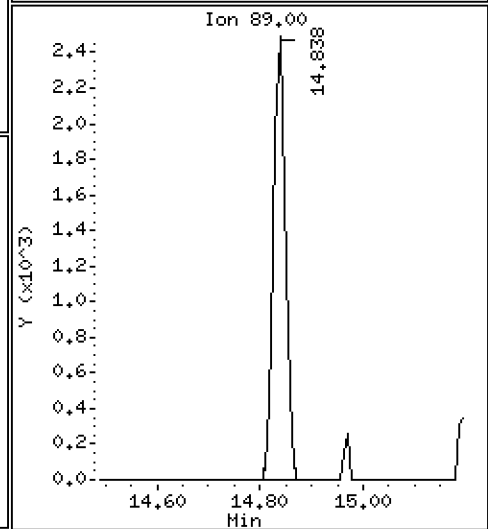
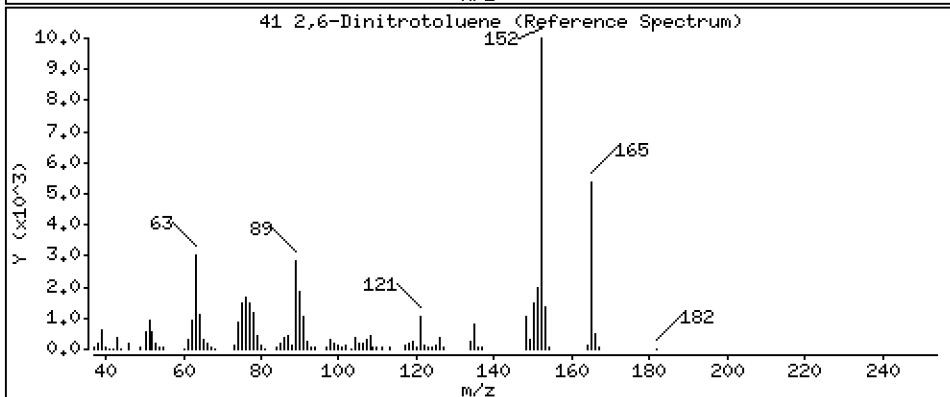
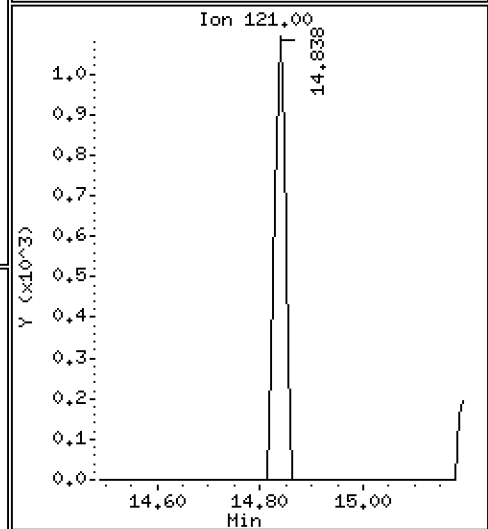
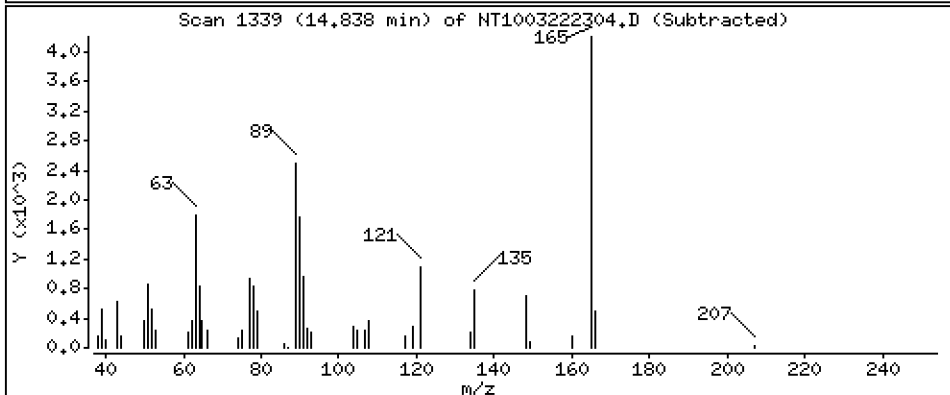
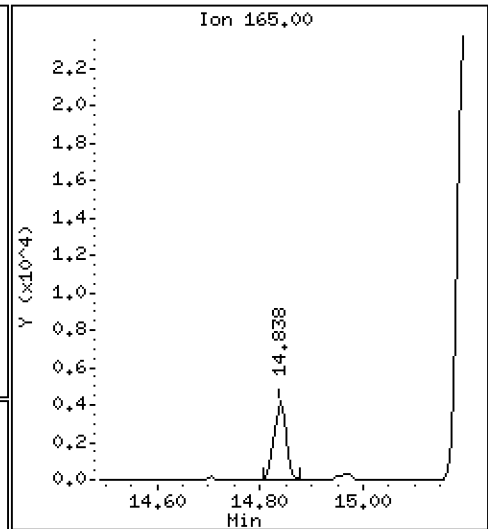
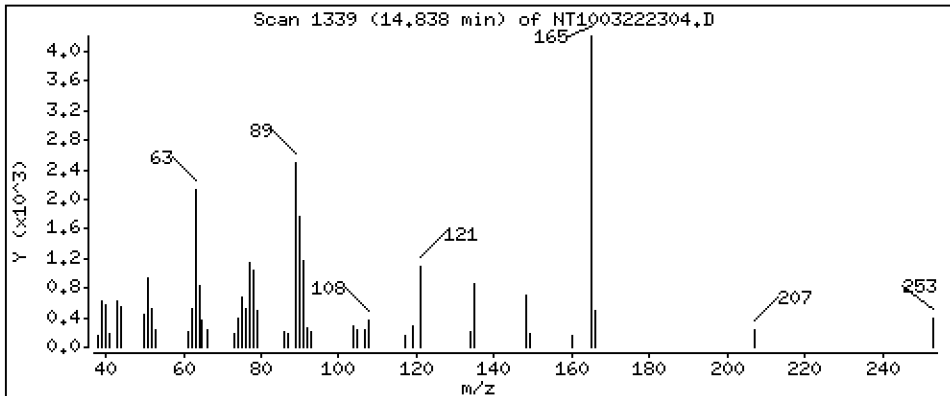
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

41 2,6-Dinitrotoluene

Concentration: 0.3243 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

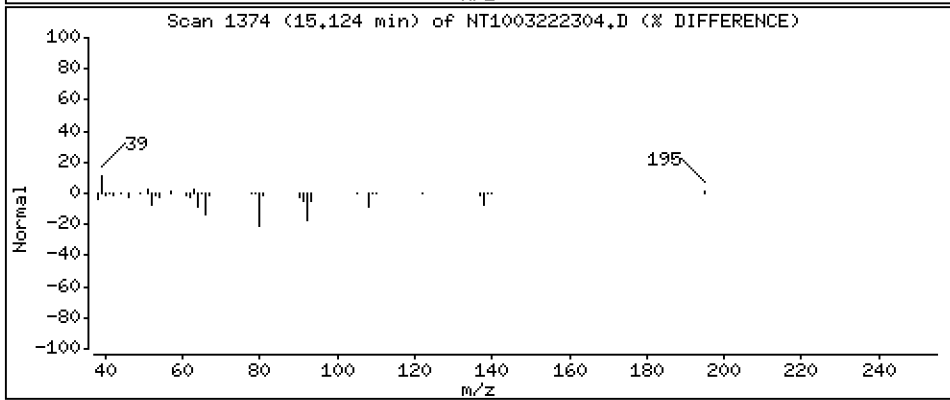
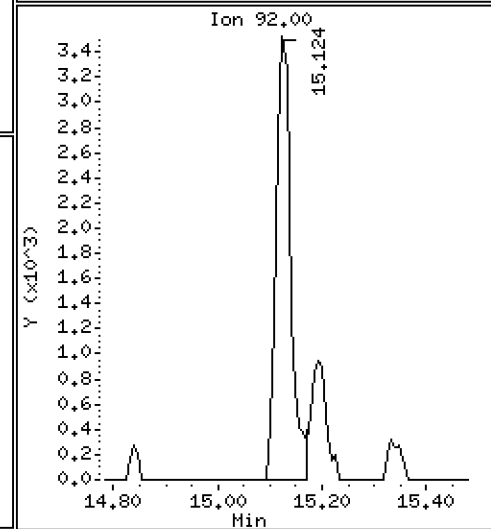
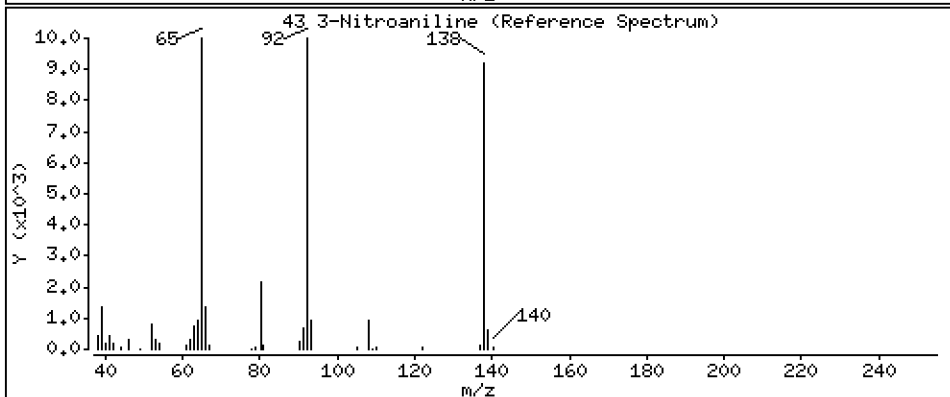
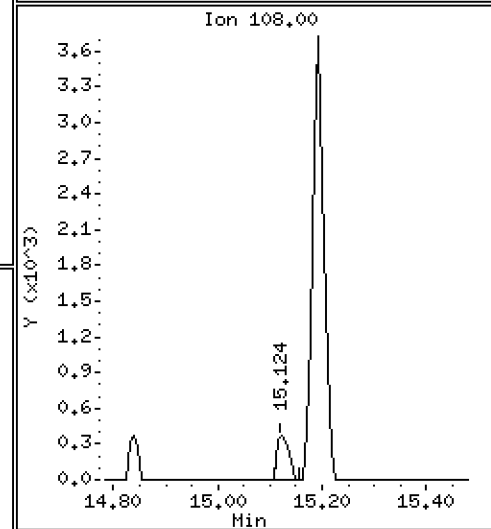
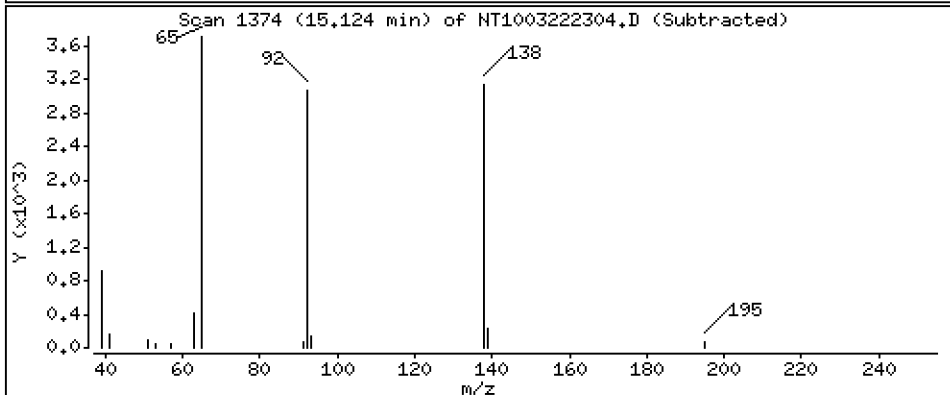
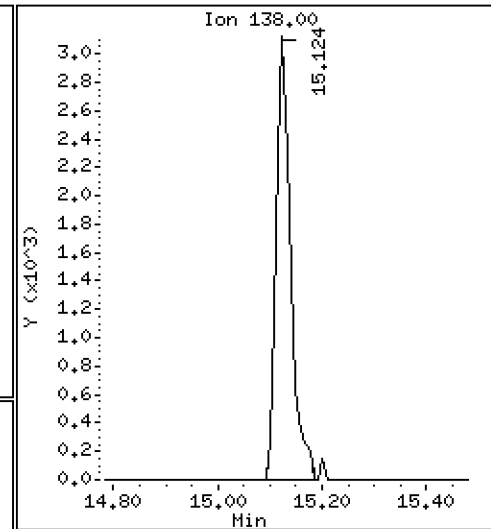
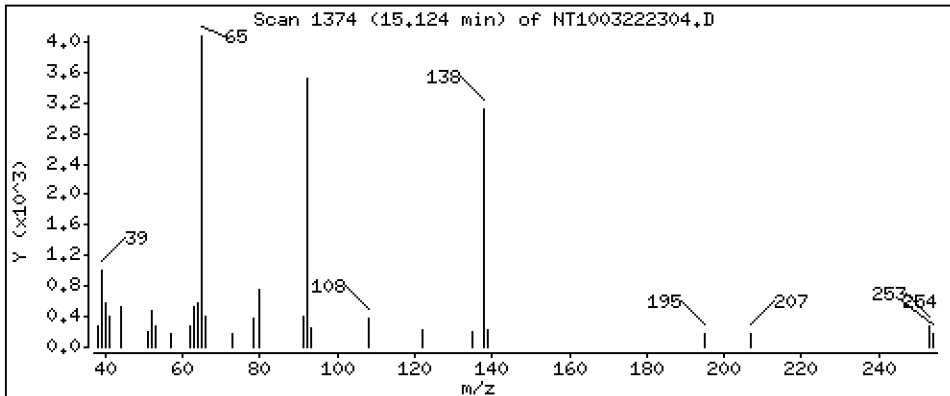
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

43 3-Nitroaniline

Concentration: 0.2629 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

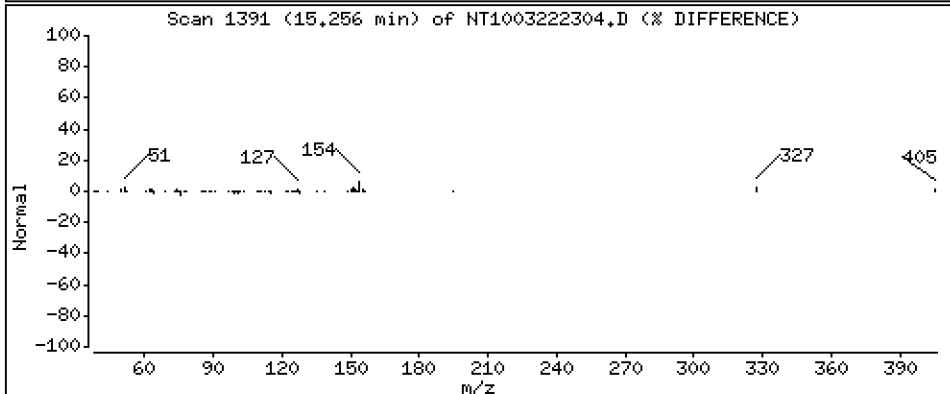
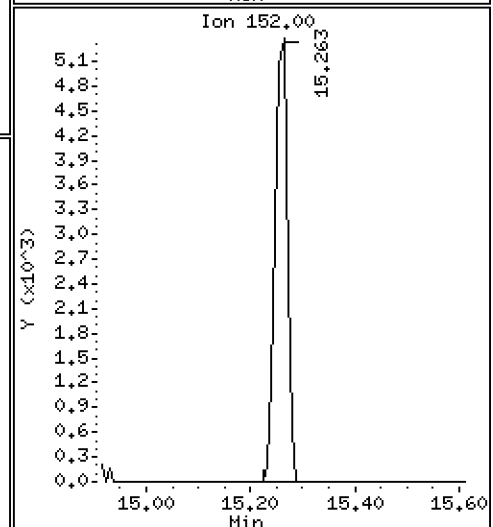
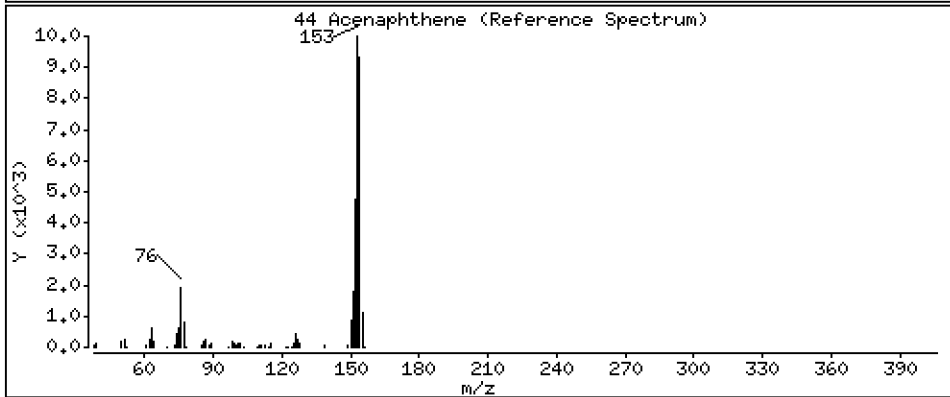
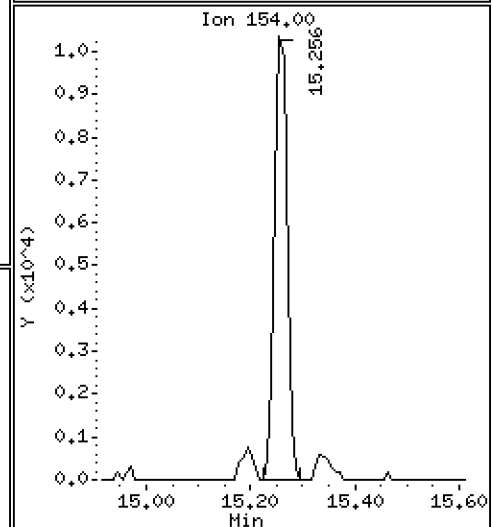
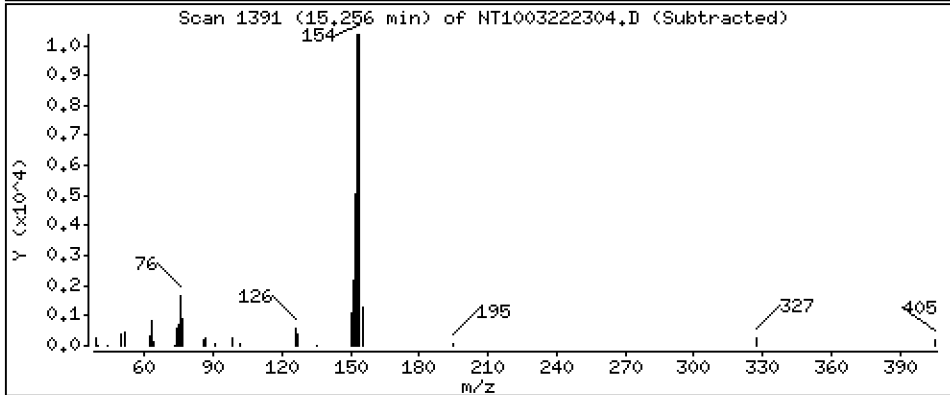
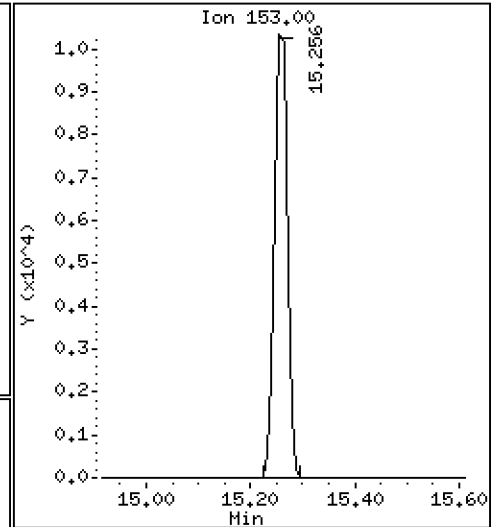
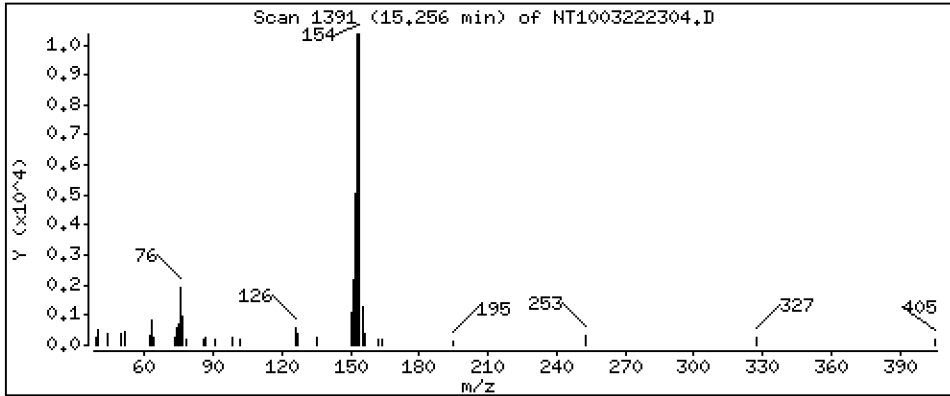
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 0,1979 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

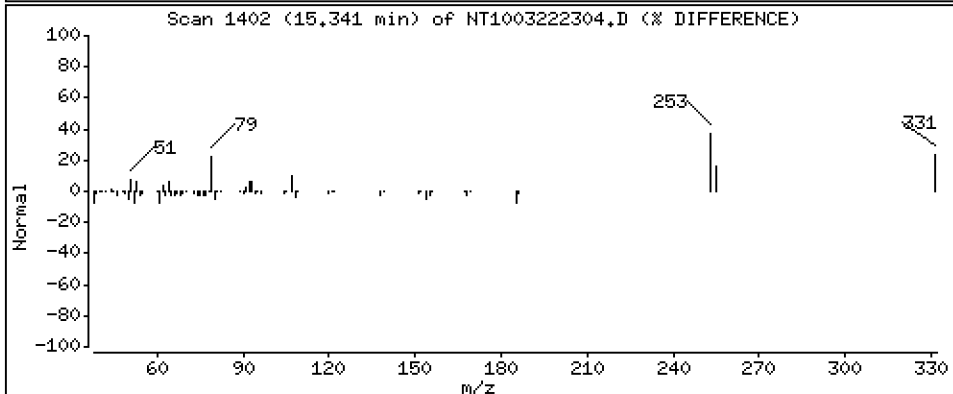
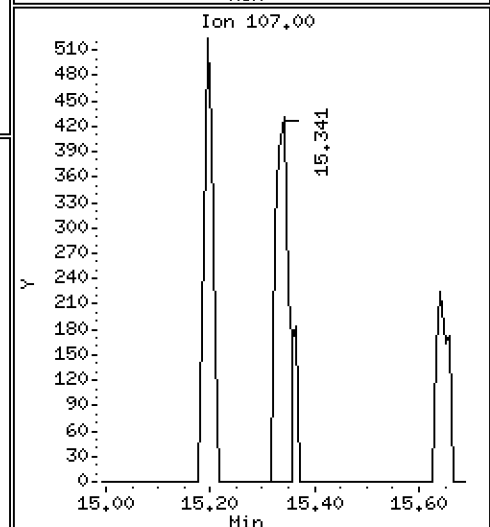
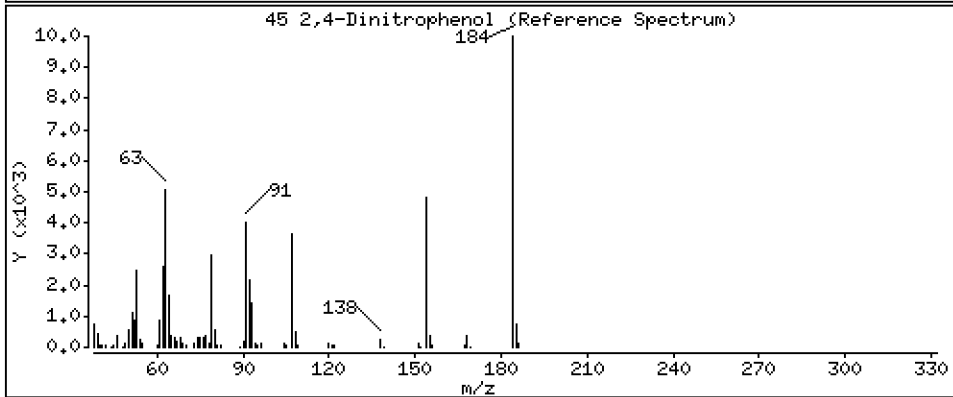
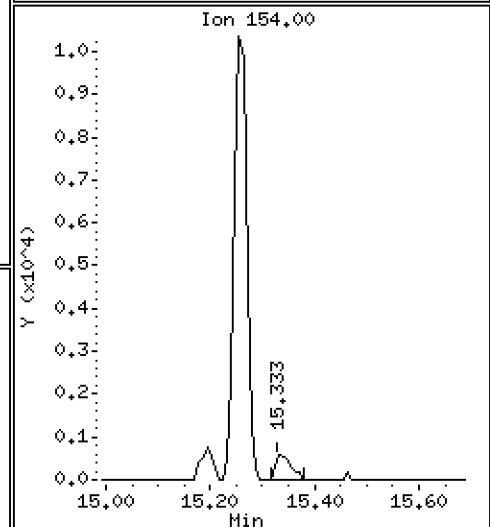
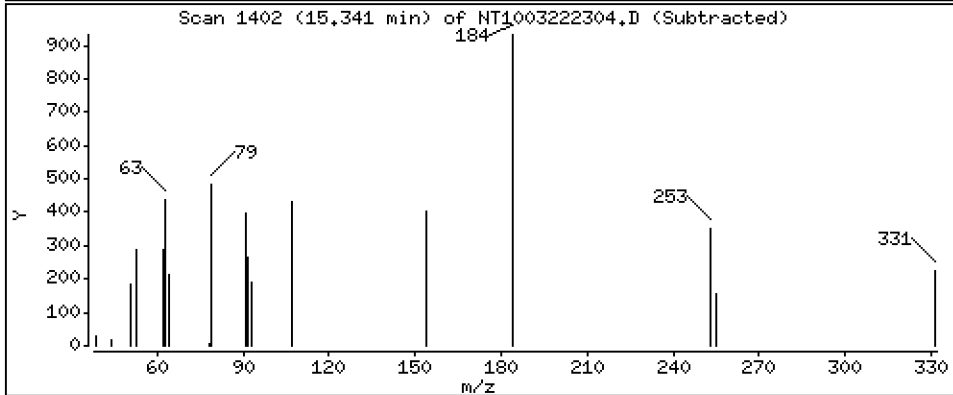
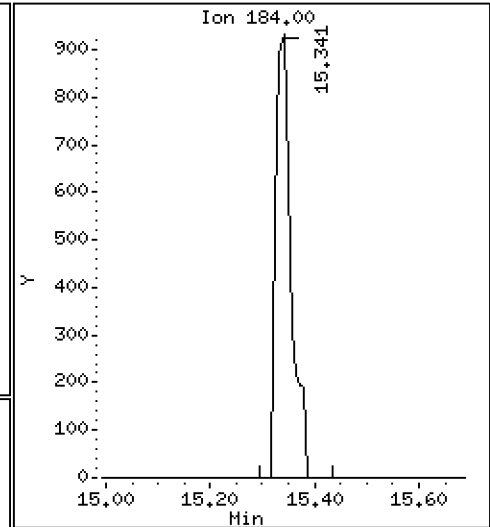
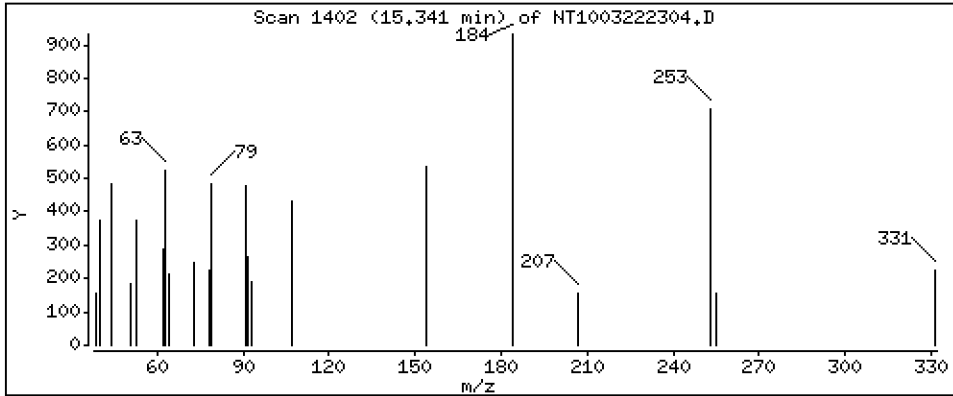
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

45 2,4-Dinitrophenol

Concentration: 0,1555 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

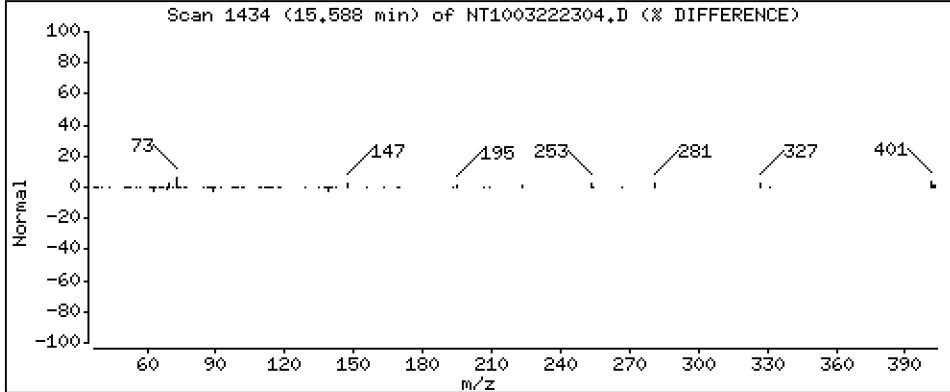
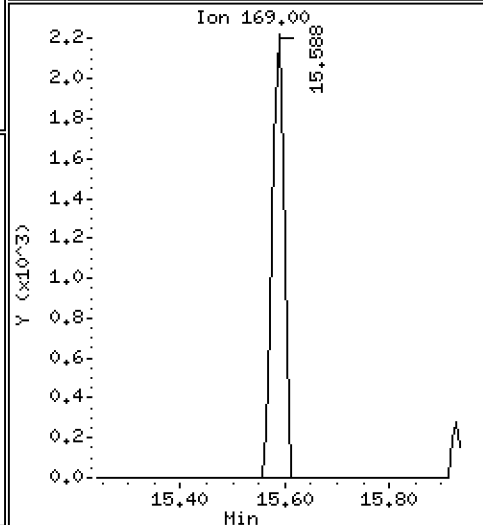
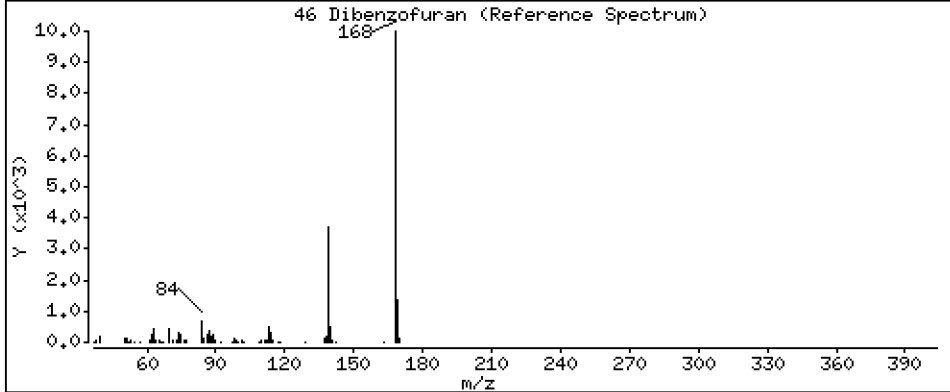
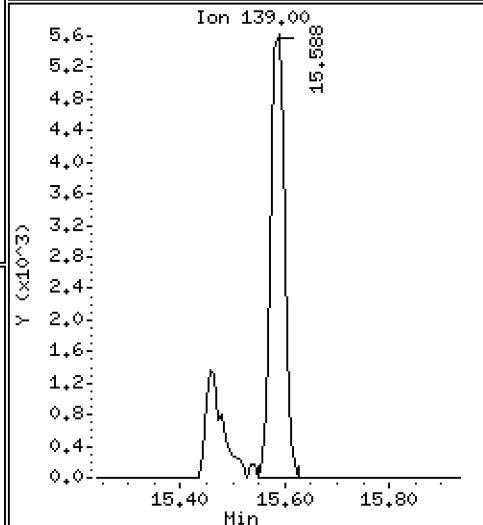
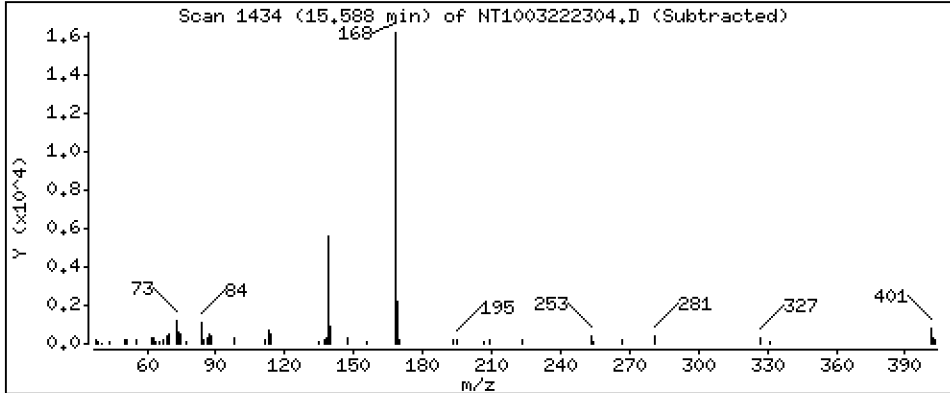
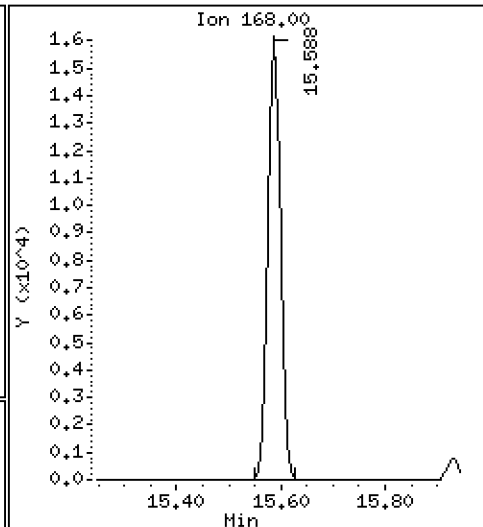
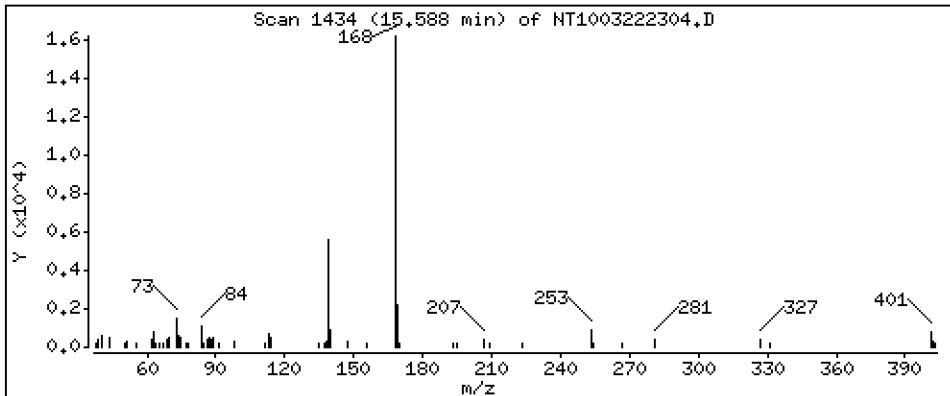
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 0,2034 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

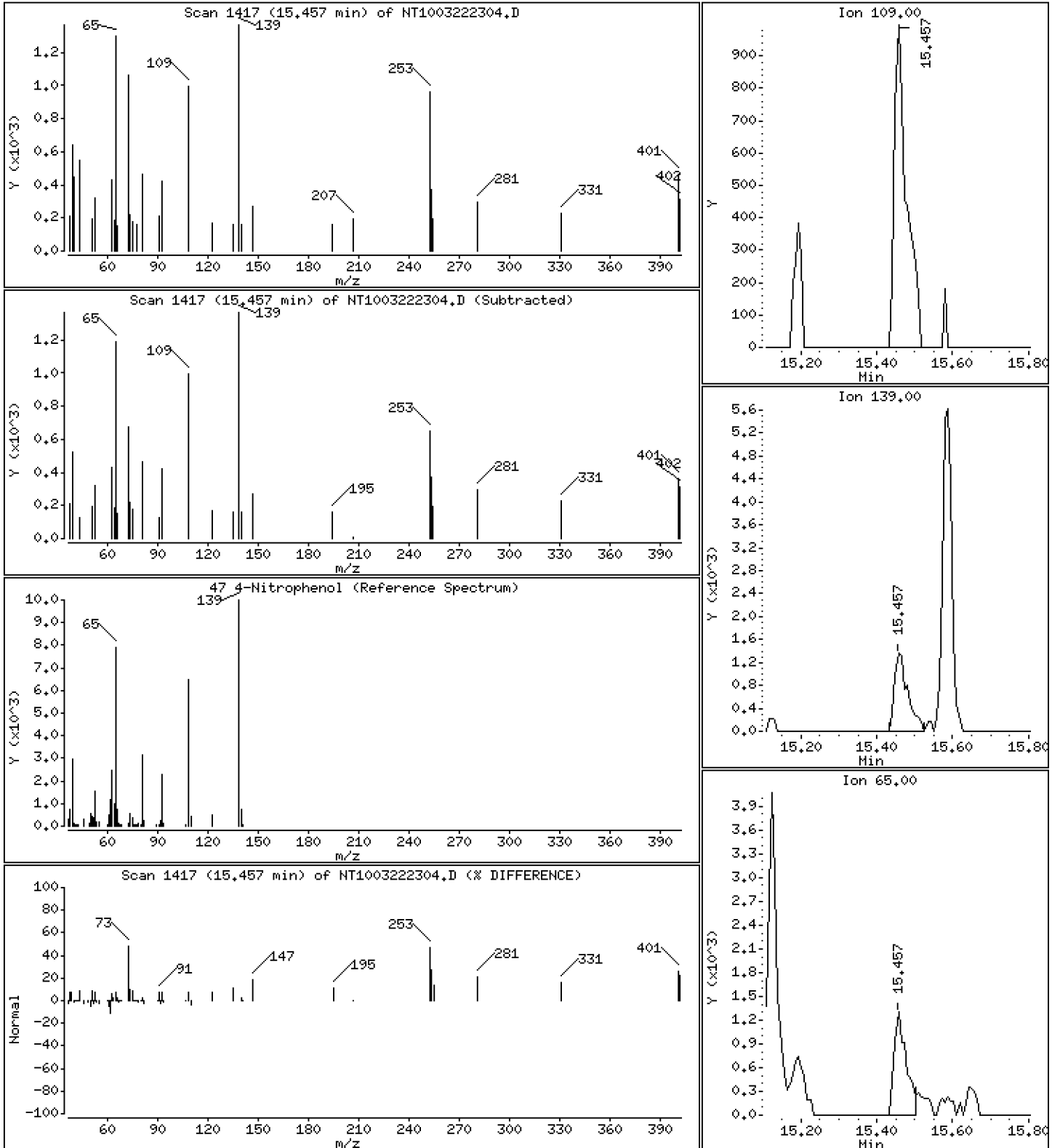
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

47 4-Nitrophenol

Concentration: 0.1585 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

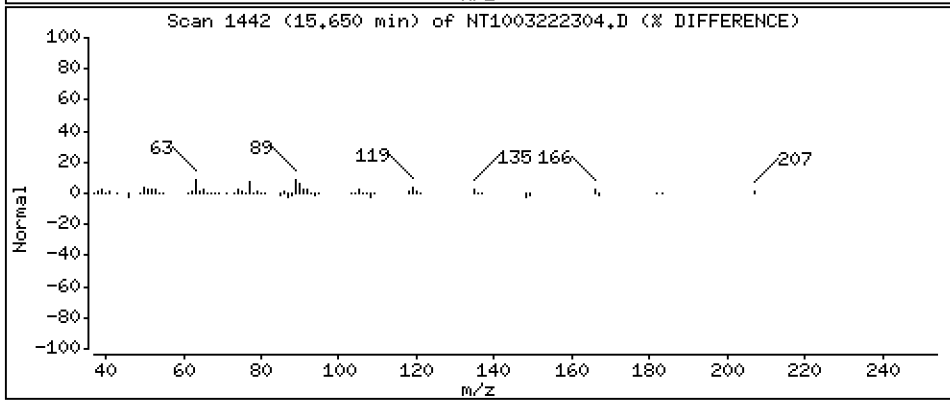
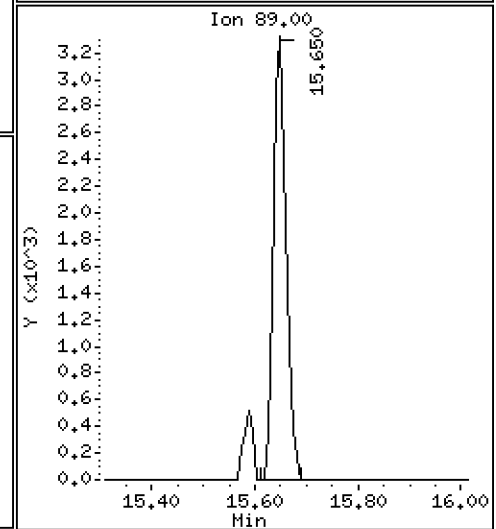
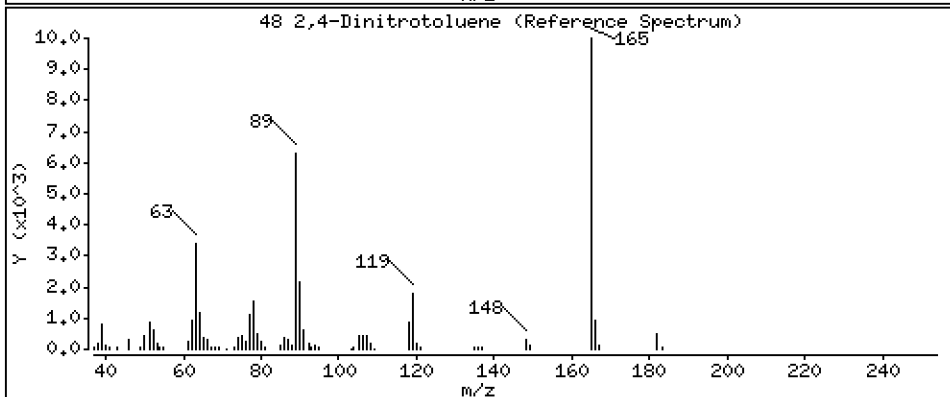
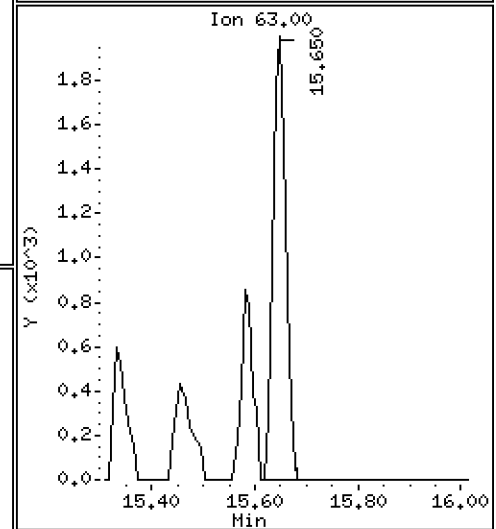
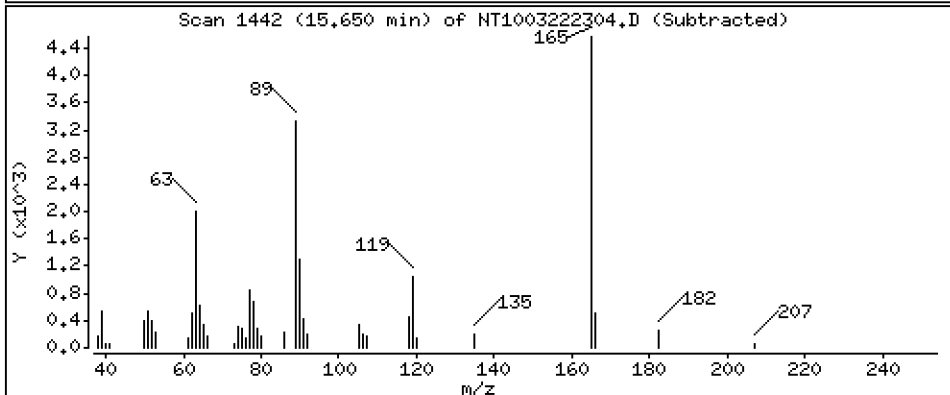
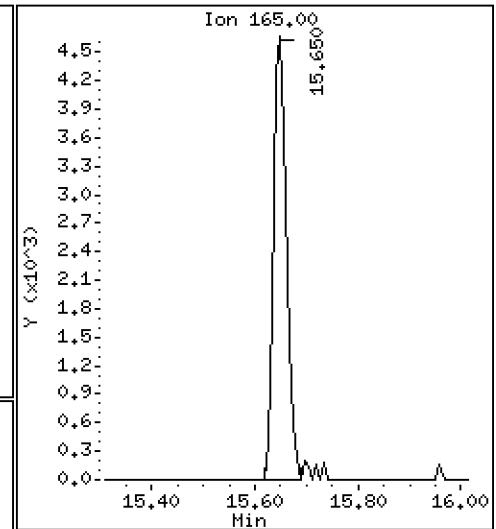
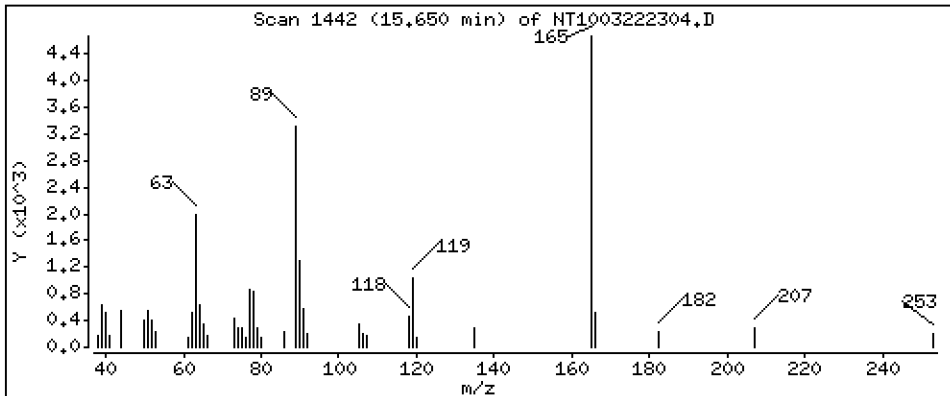
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

48 2,4-Dinitrotoluene

Concentration: 0,2693 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

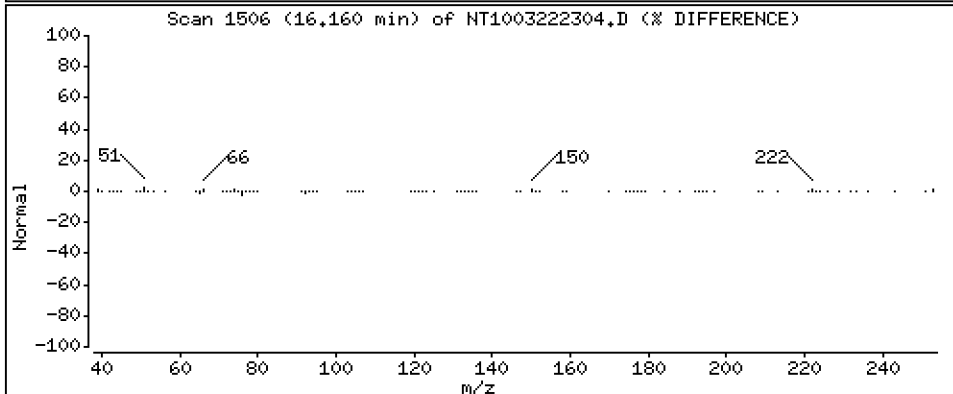
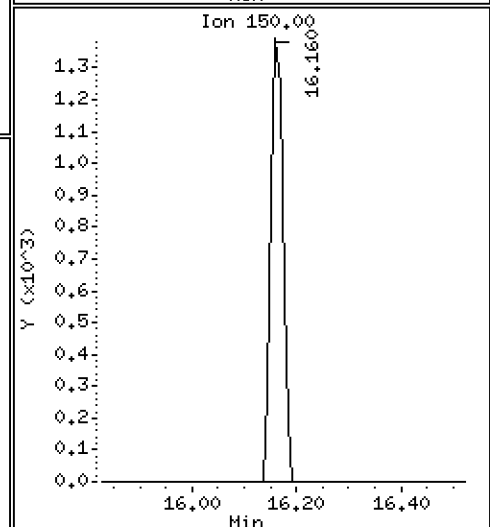
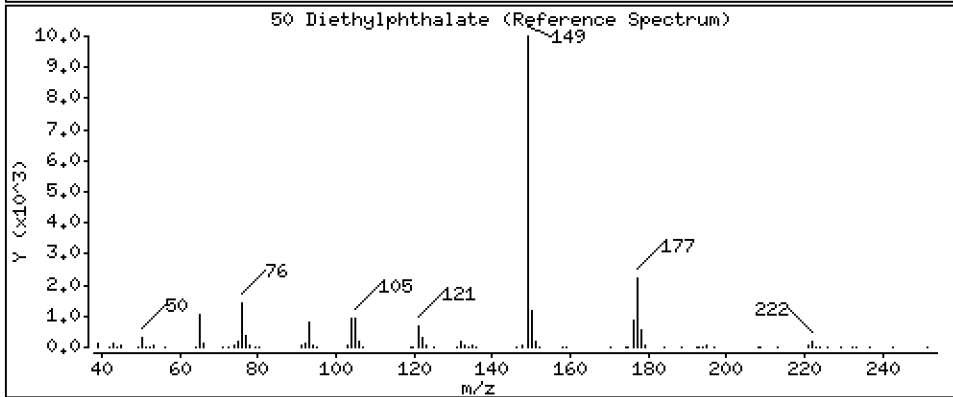
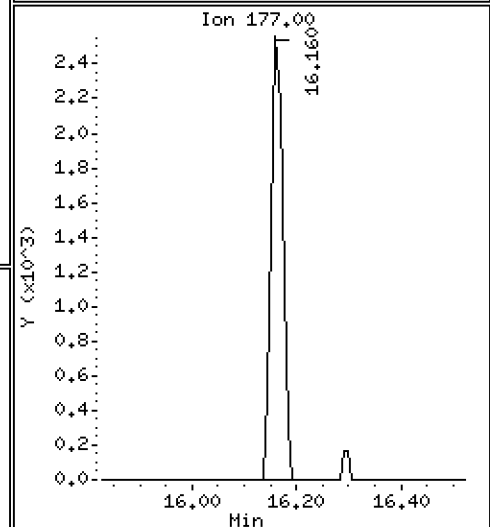
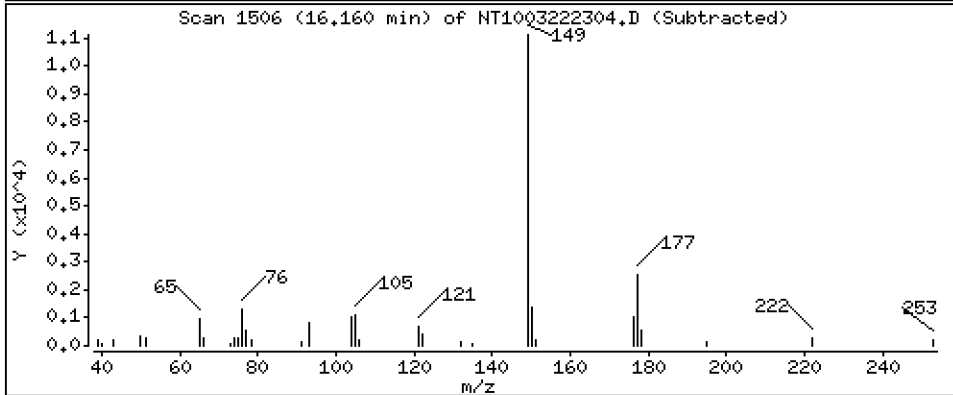
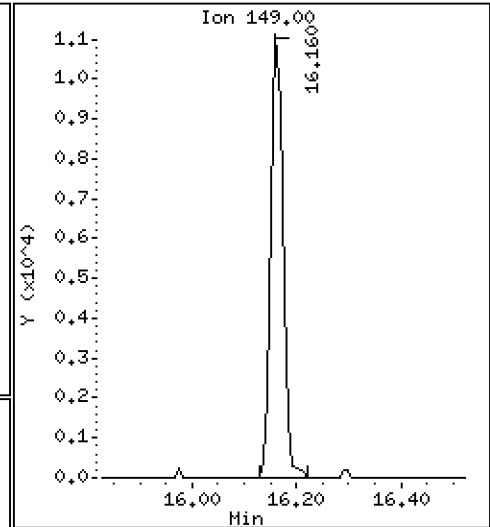
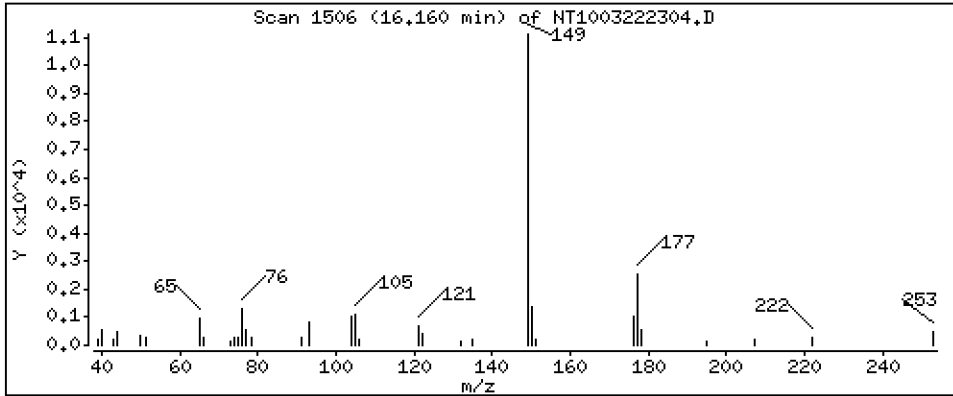
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 0,2293 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

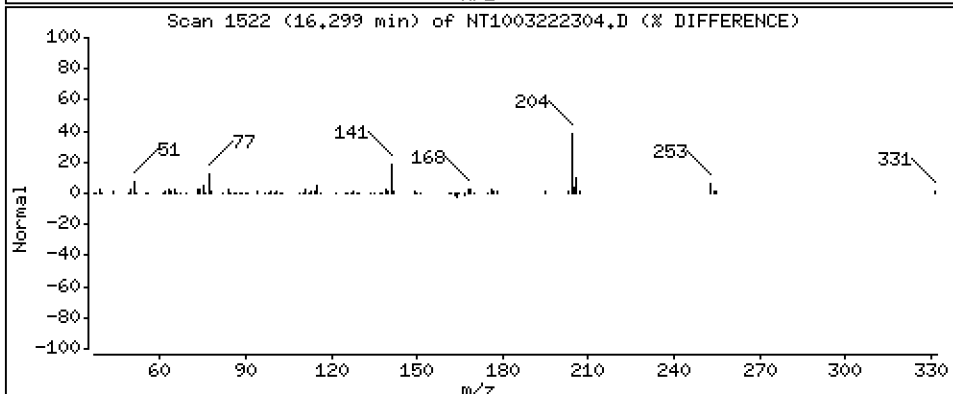
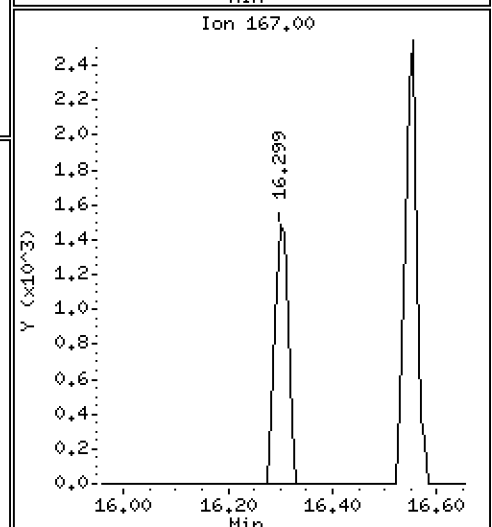
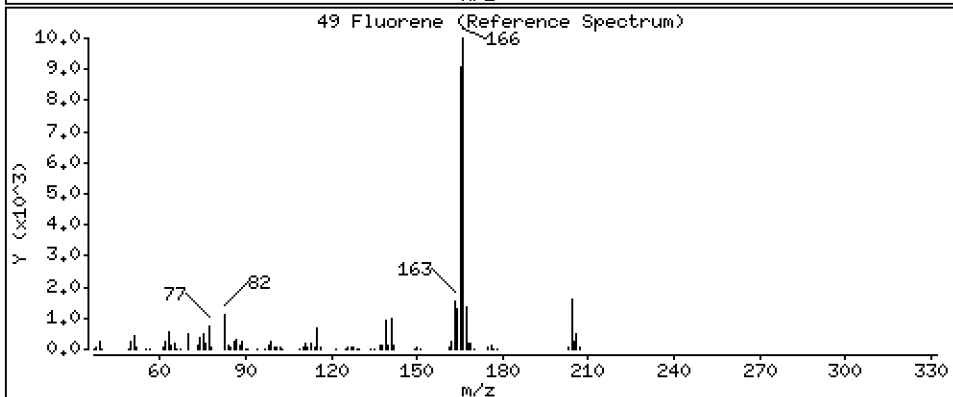
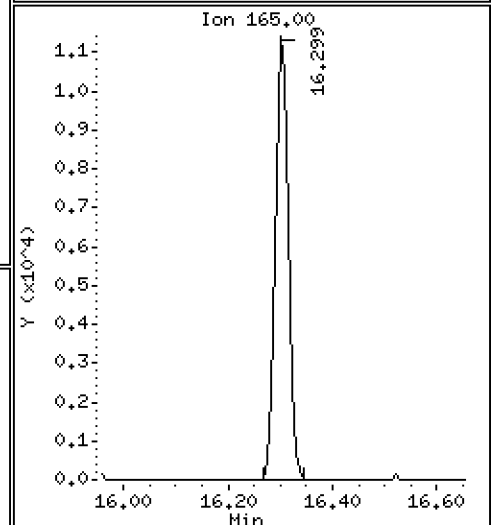
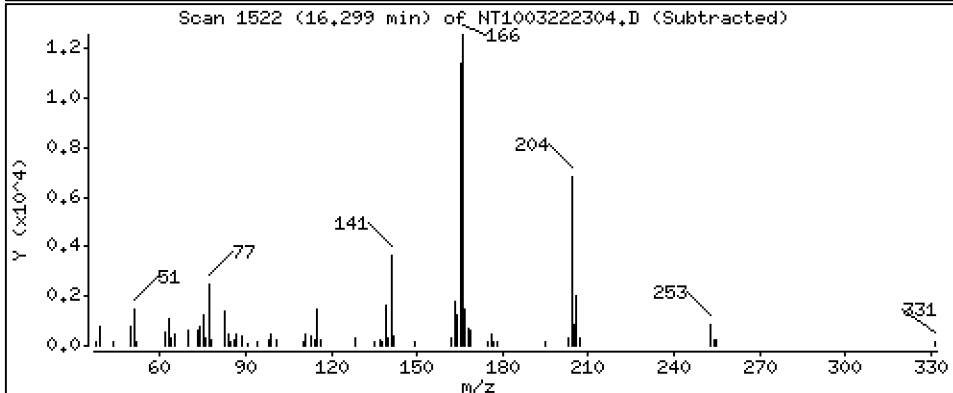
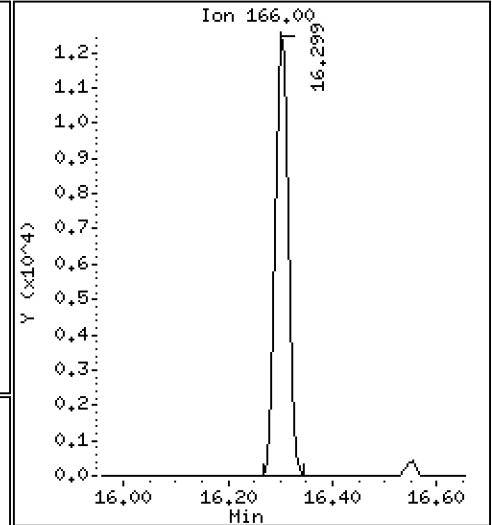
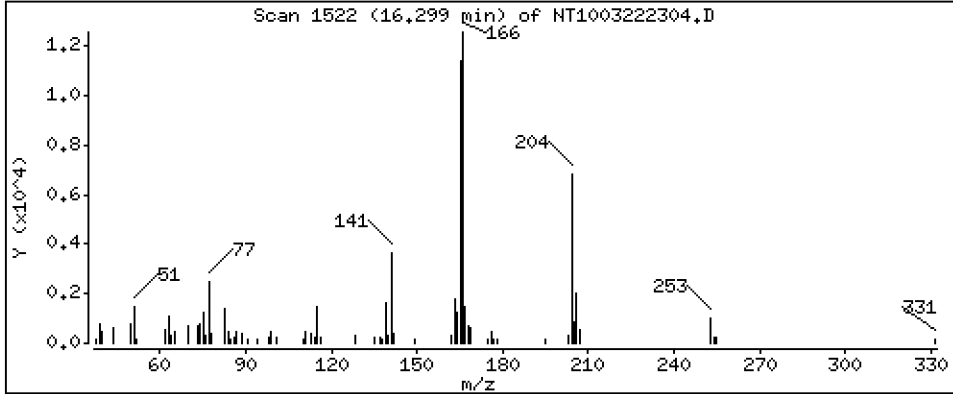
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 0,2106 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

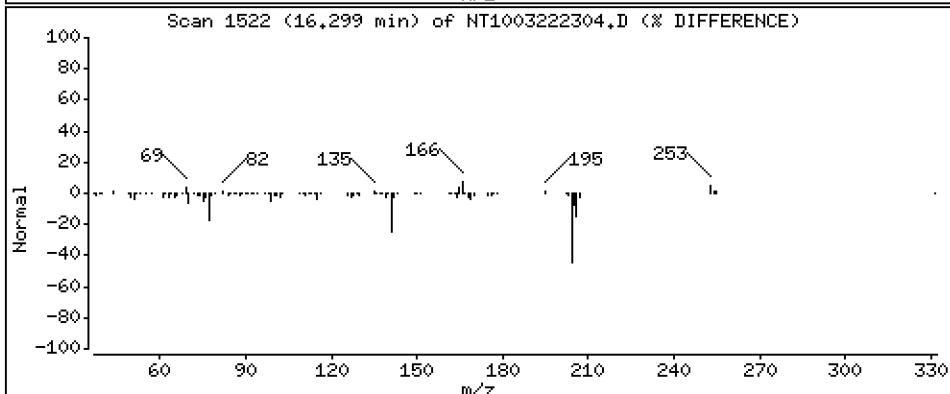
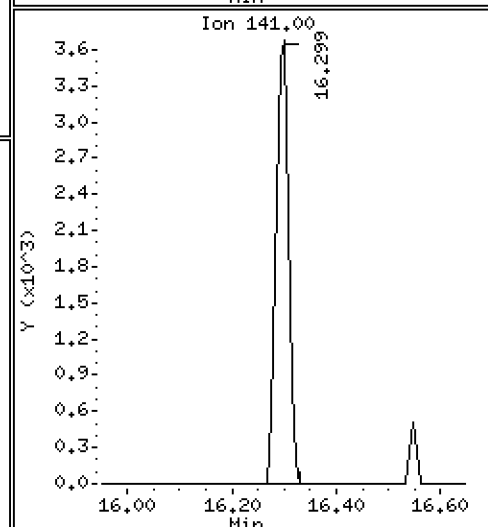
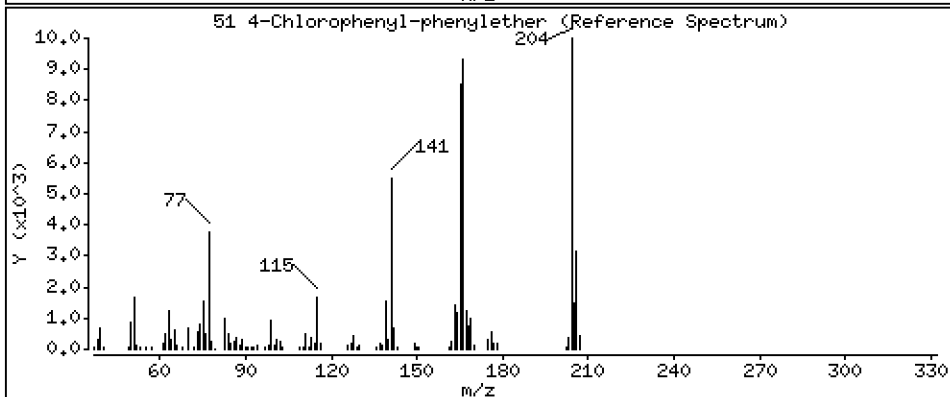
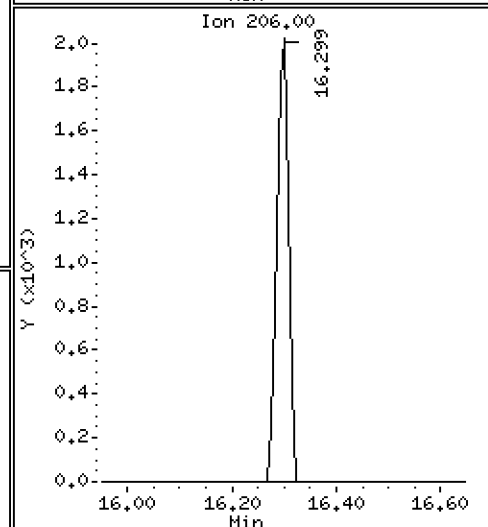
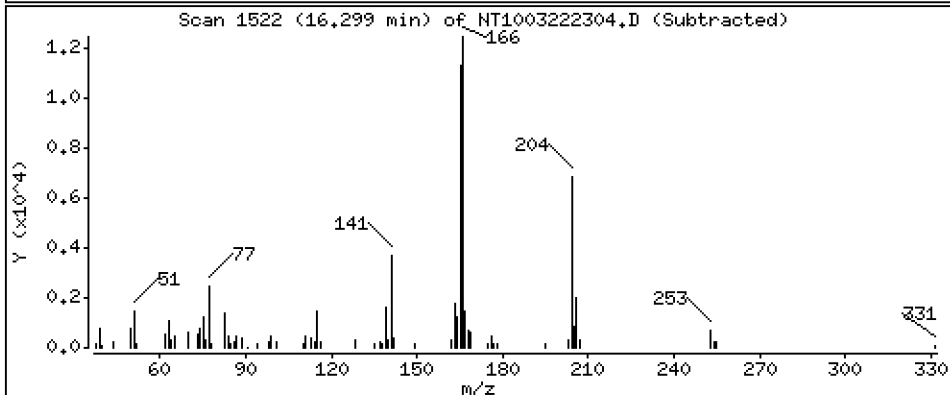
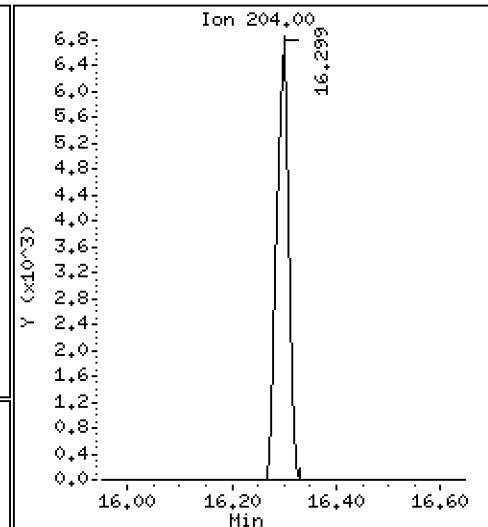
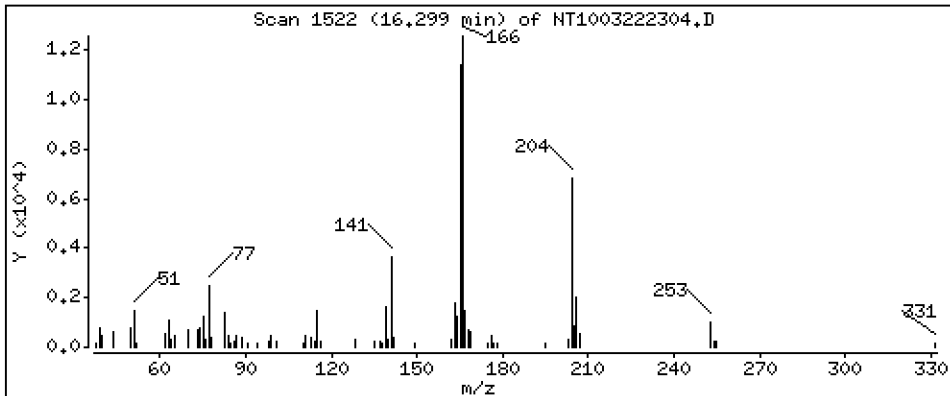
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 0,2215 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

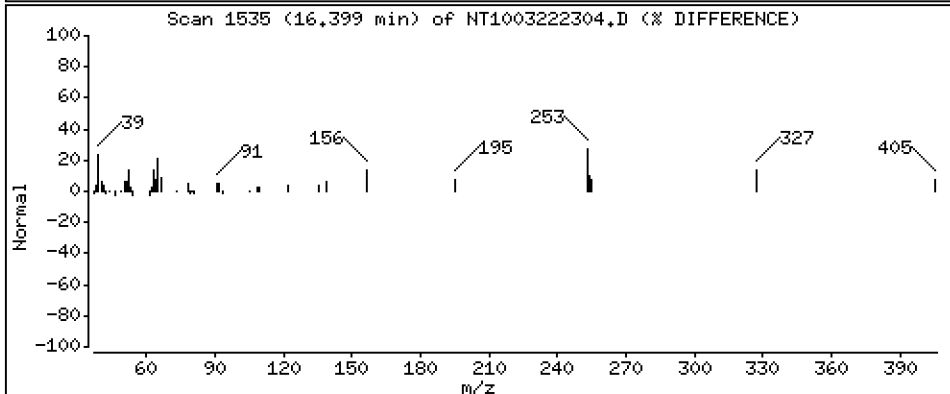
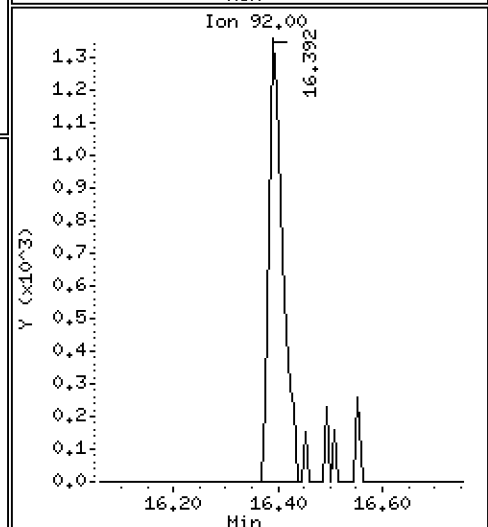
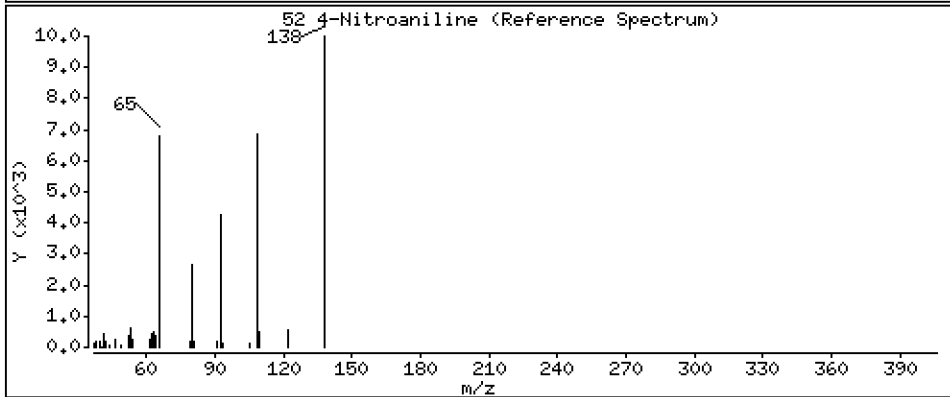
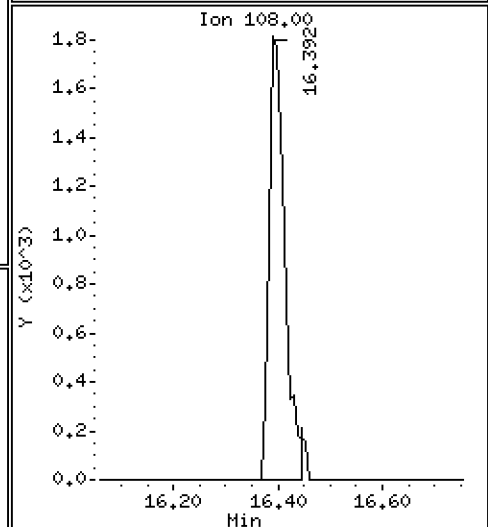
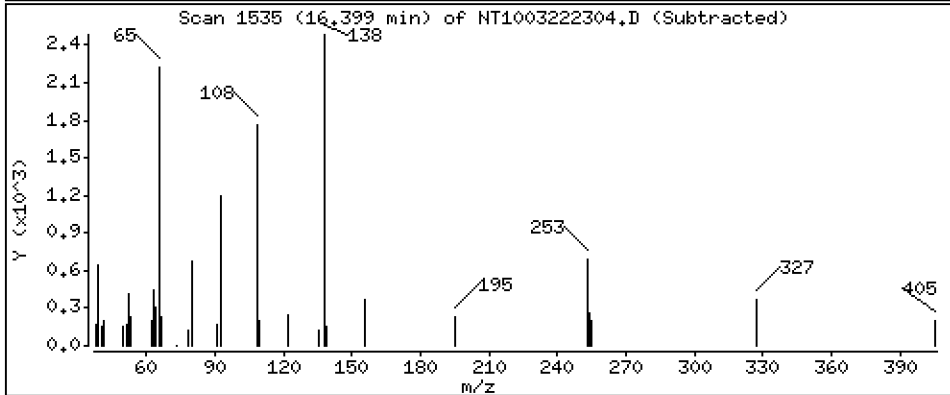
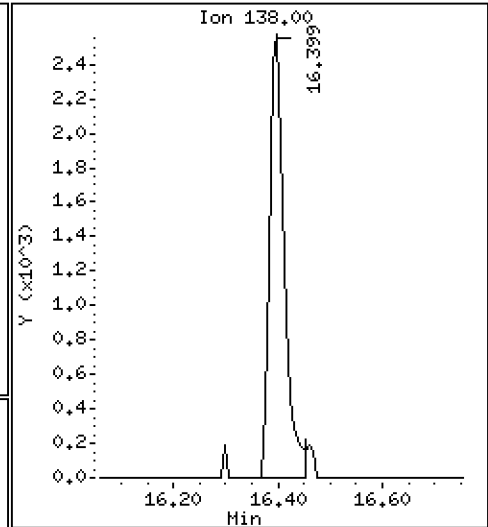
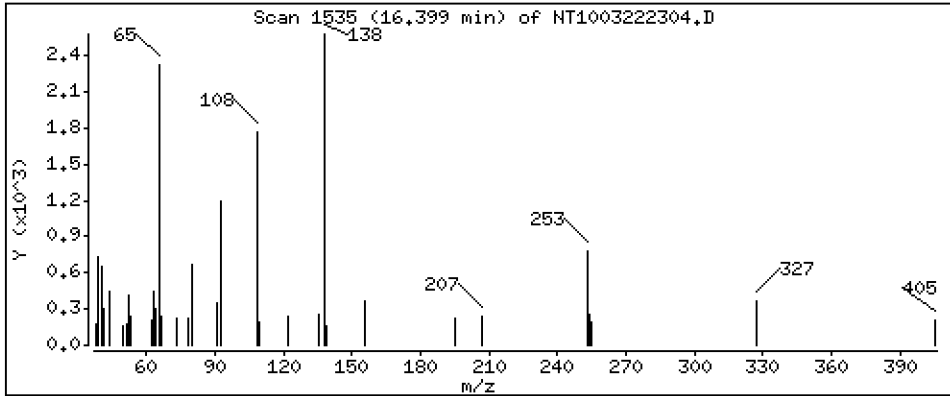
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

52 4-Nitroaniline

Concentration: 0,2456 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

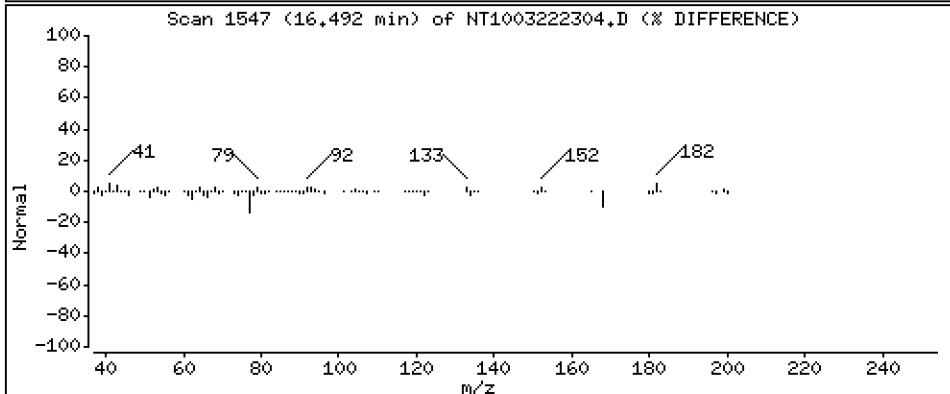
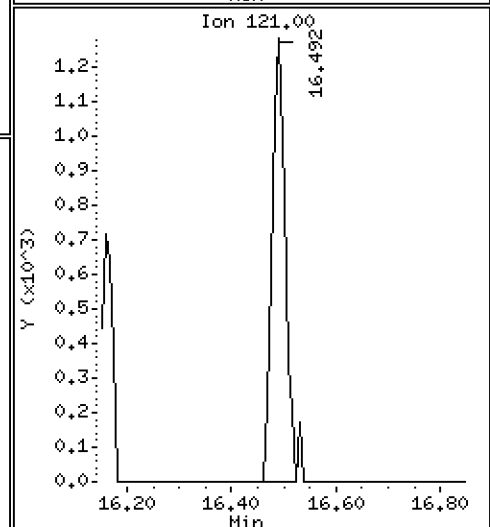
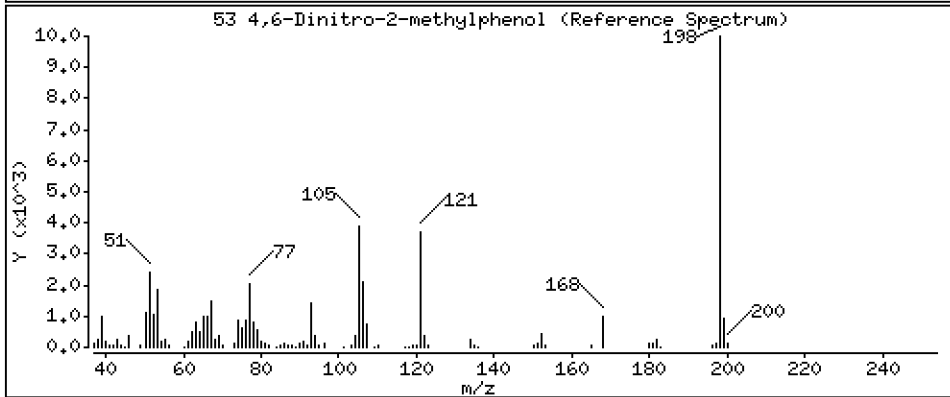
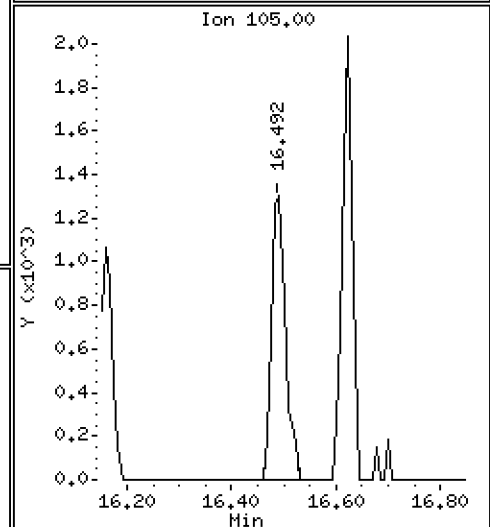
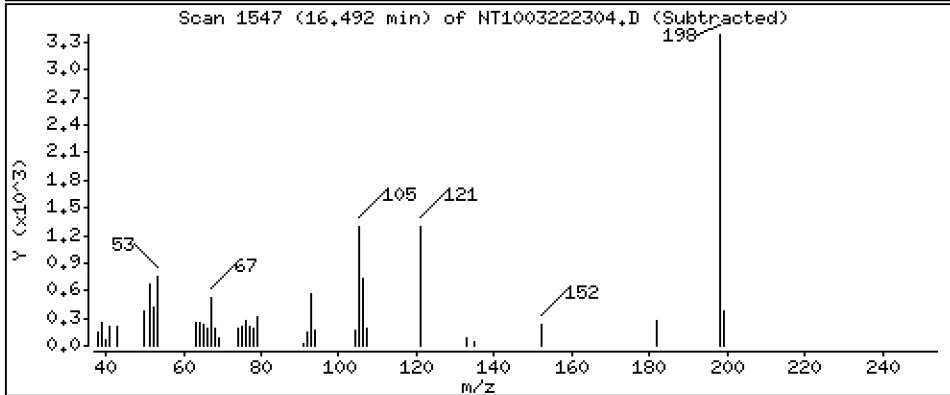
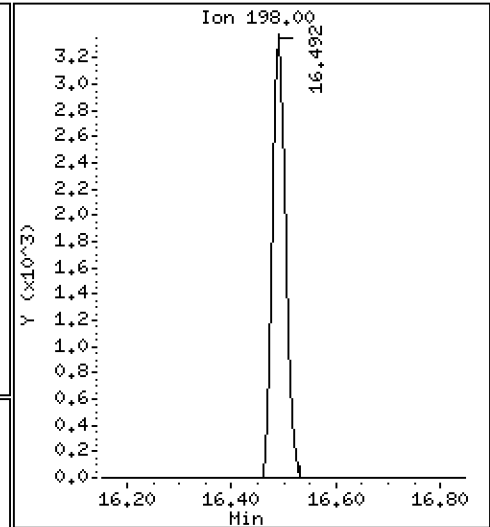
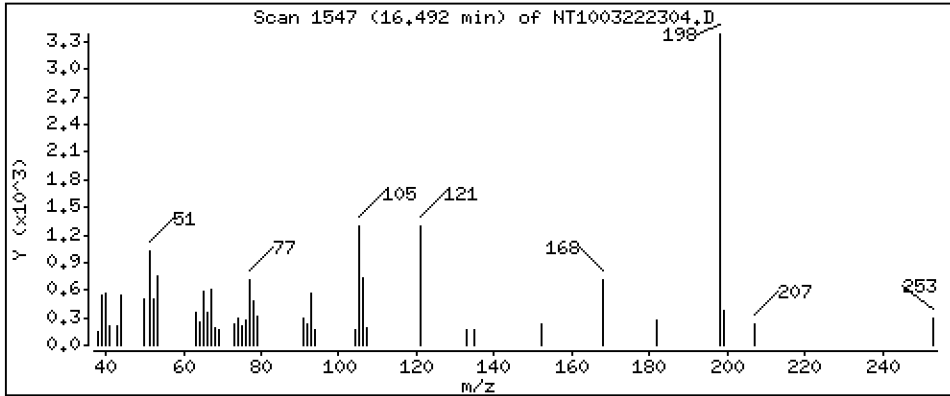
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

53 4,6-Dinitro-2-methylphenol

Concentration: 0,3731 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

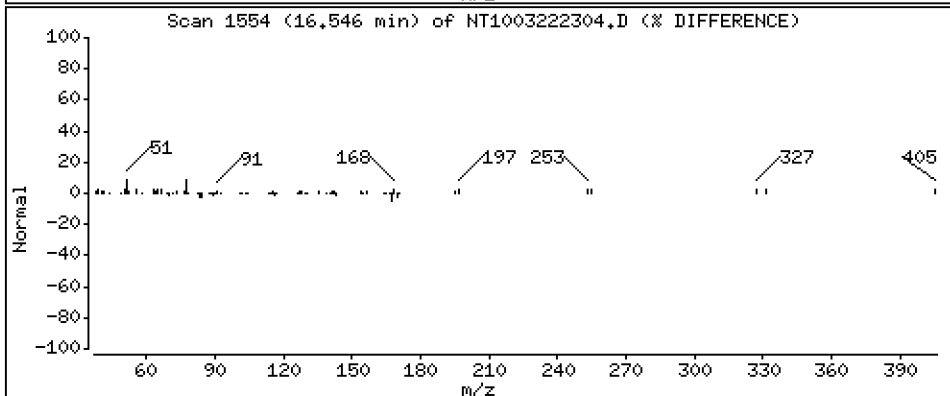
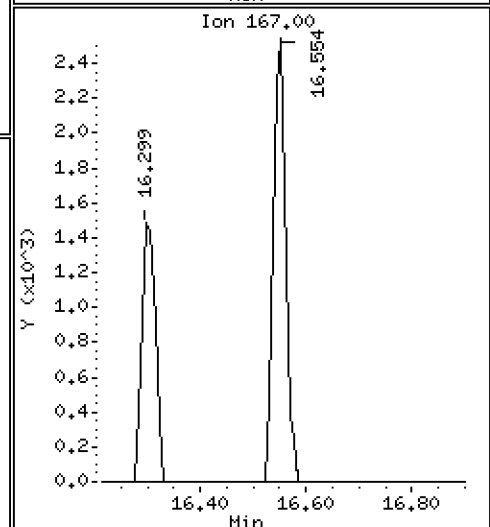
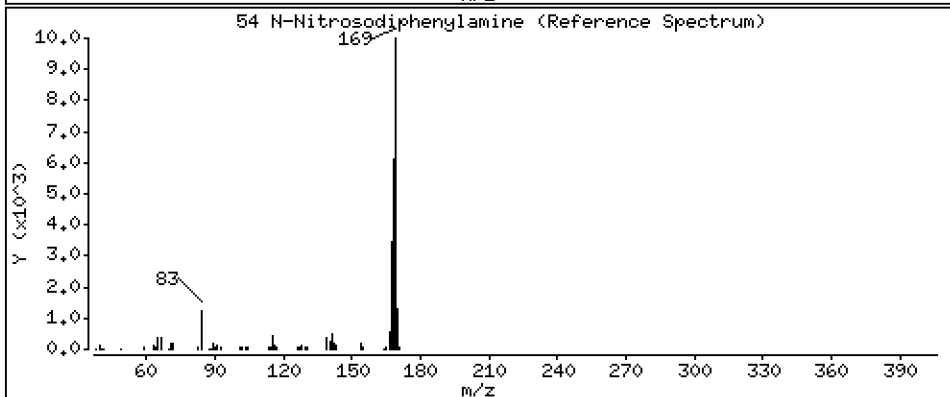
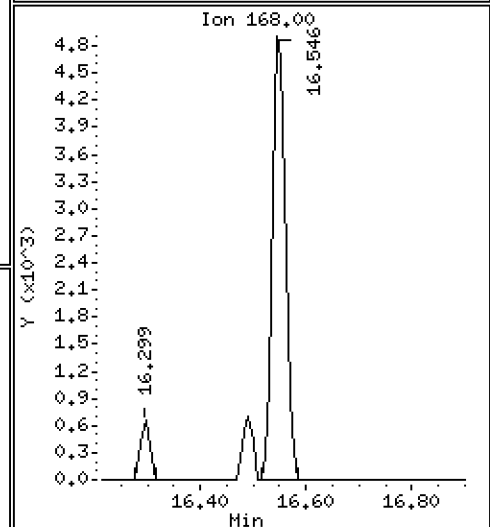
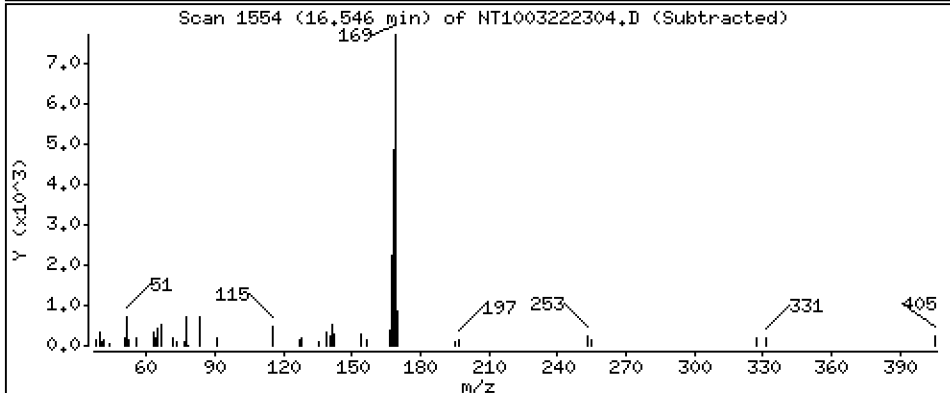
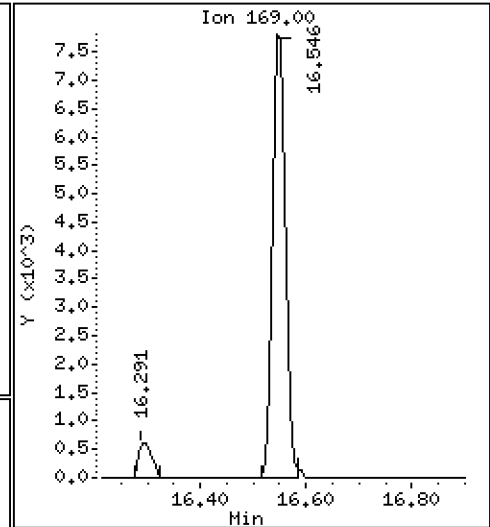
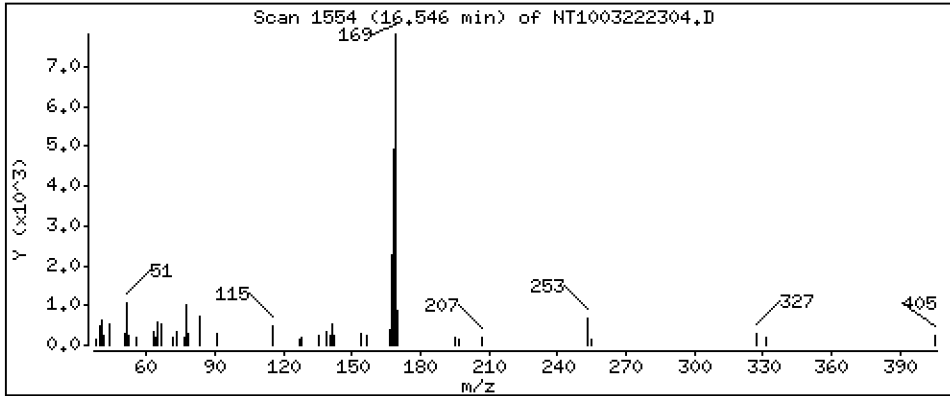
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

54 N-Nitrosodiphenylamine

Concentration: 0.1918 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

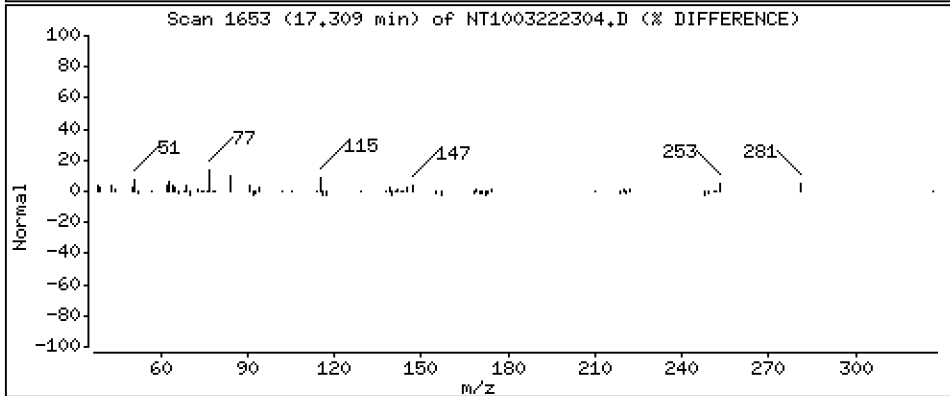
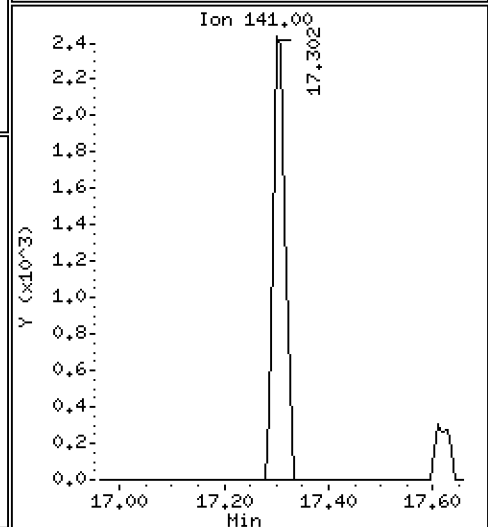
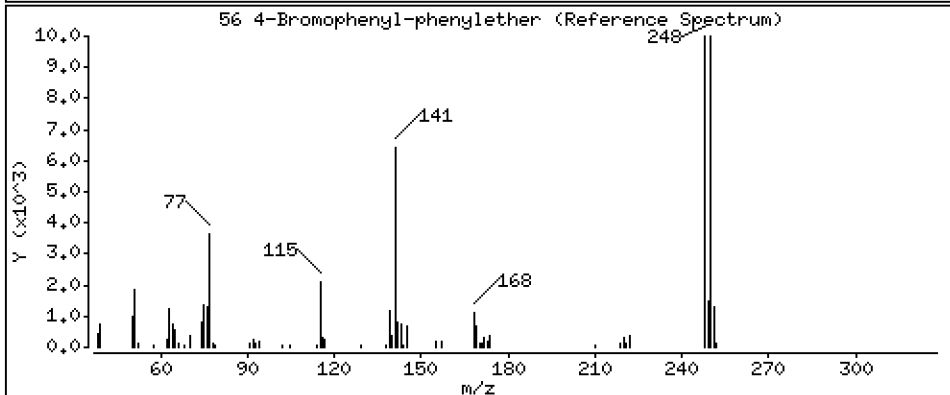
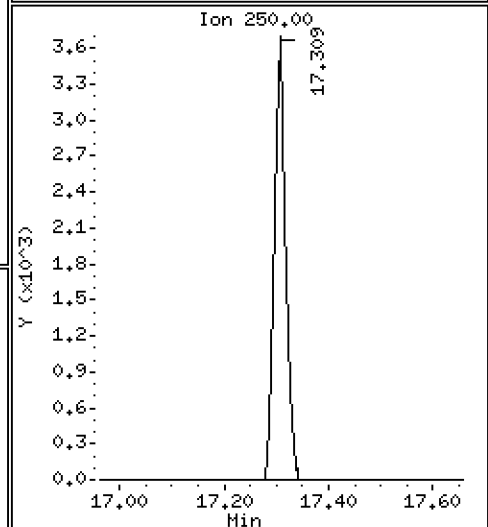
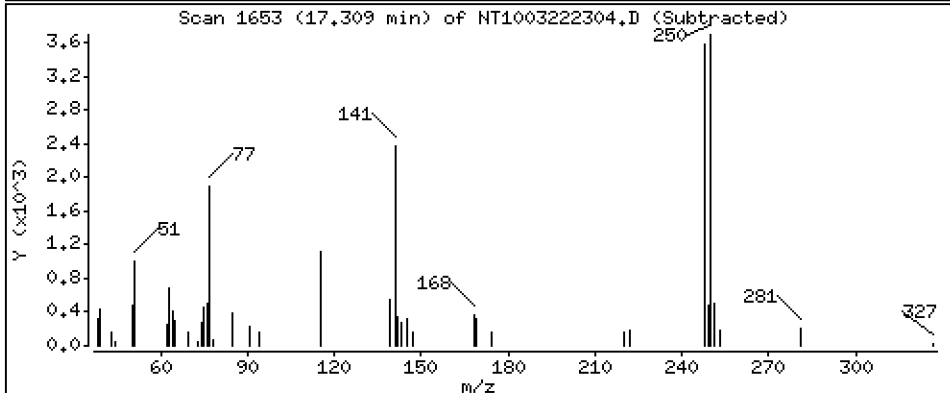
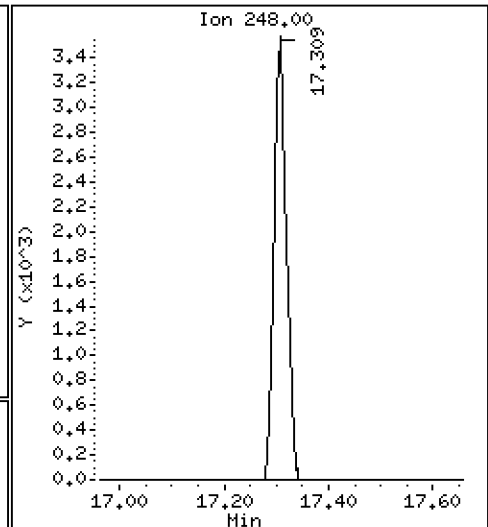
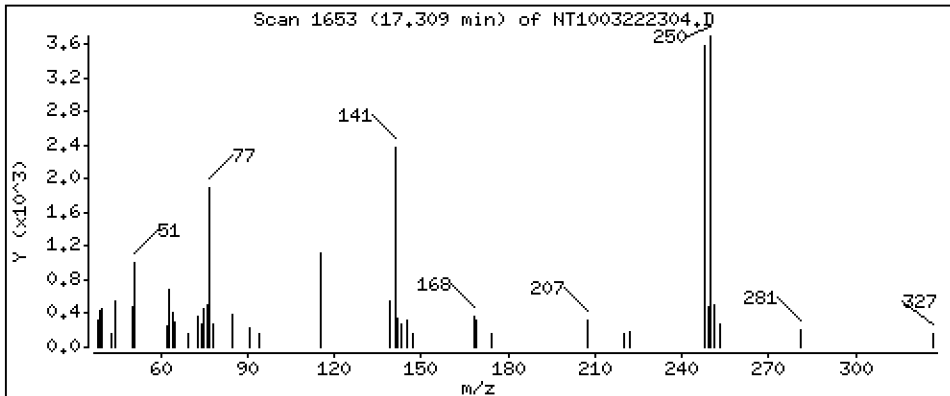
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 0,2055 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

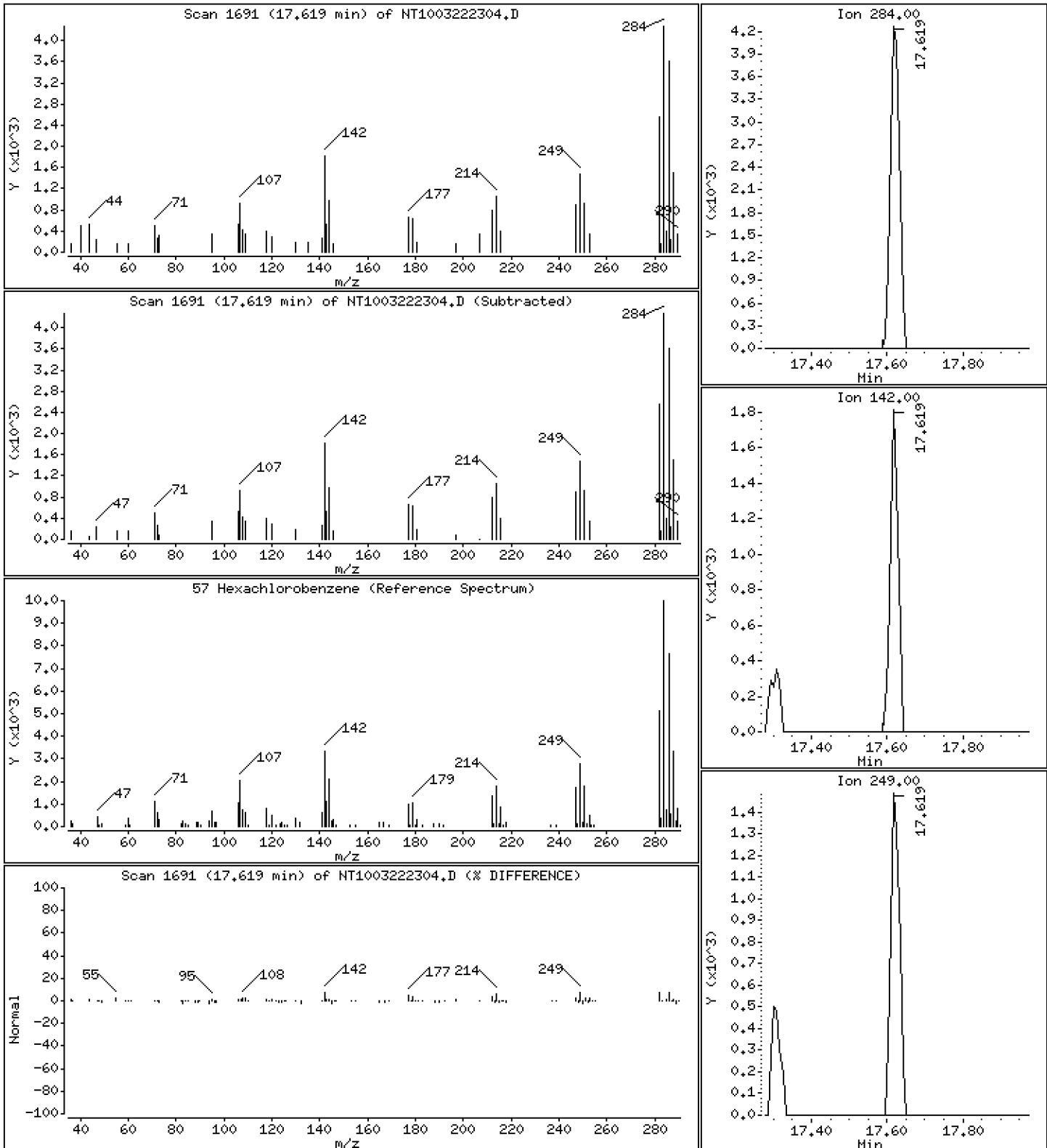
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

57 Hexachlorobenzene

Concentration: 0,2361 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

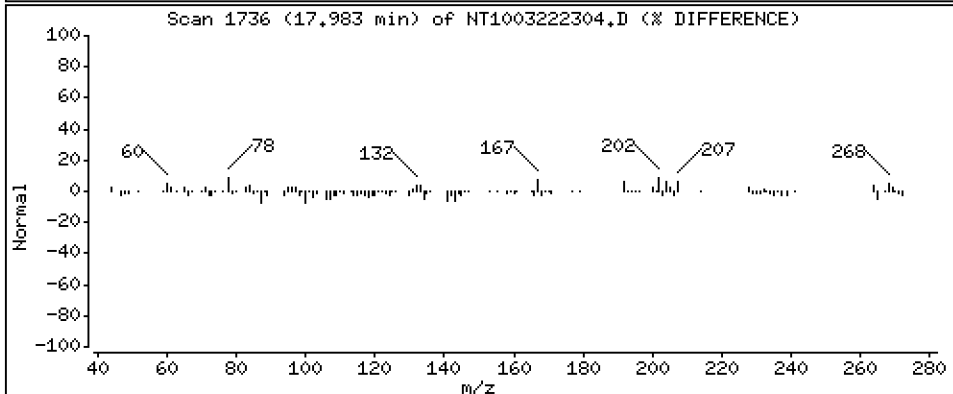
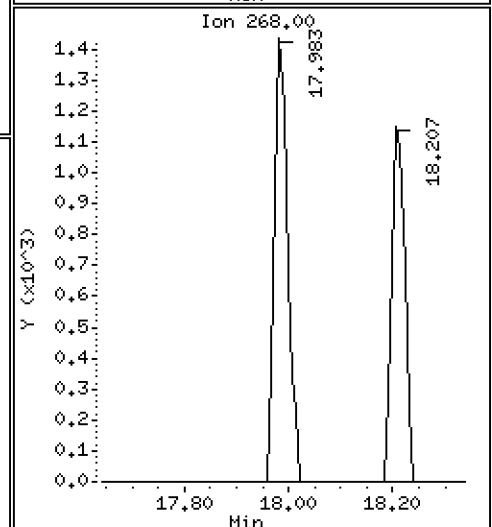
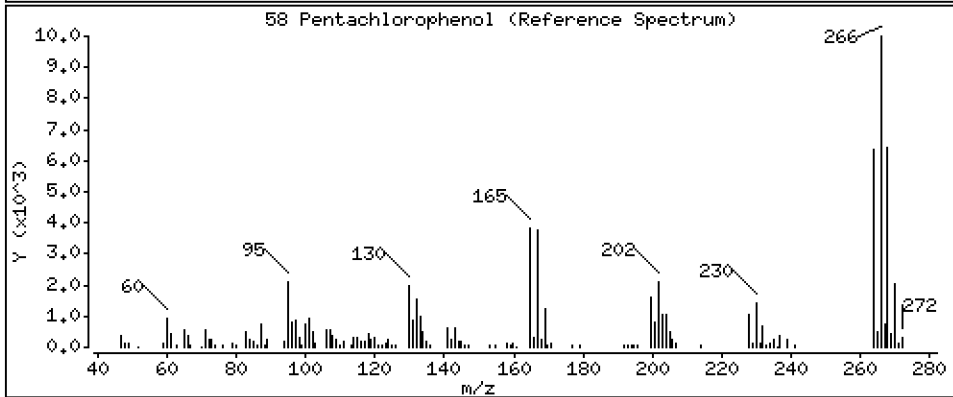
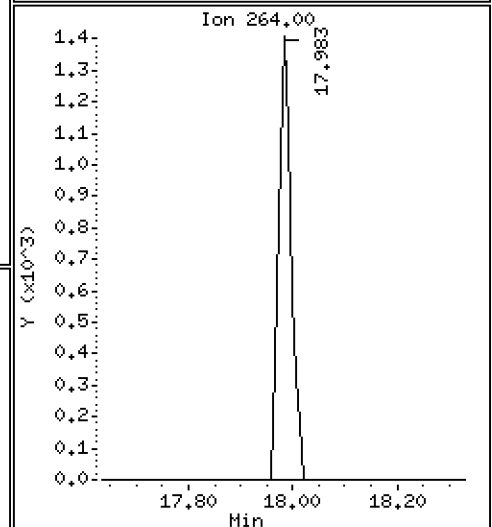
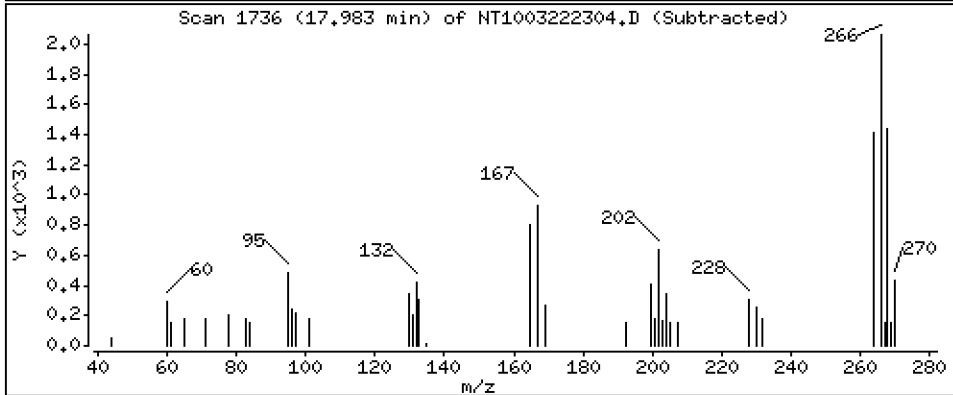
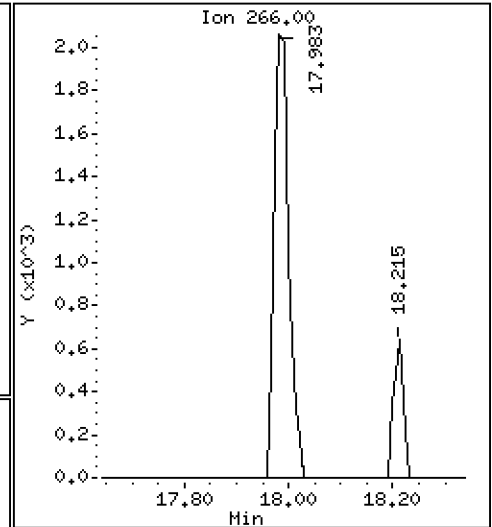
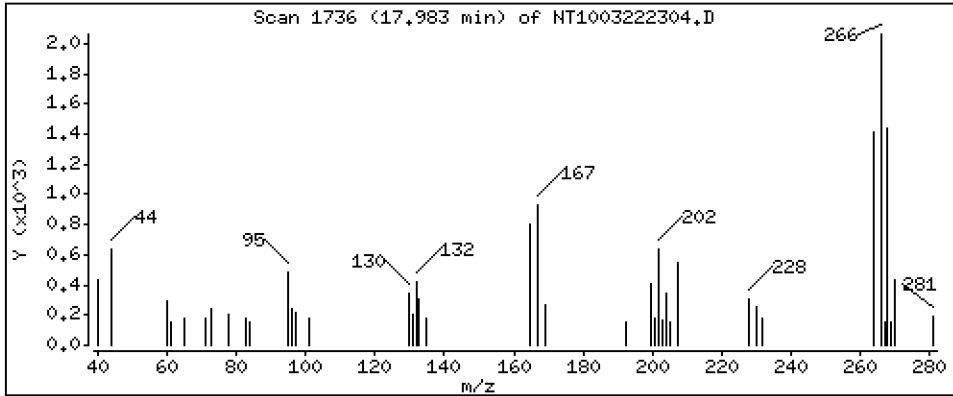
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 0,2209 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

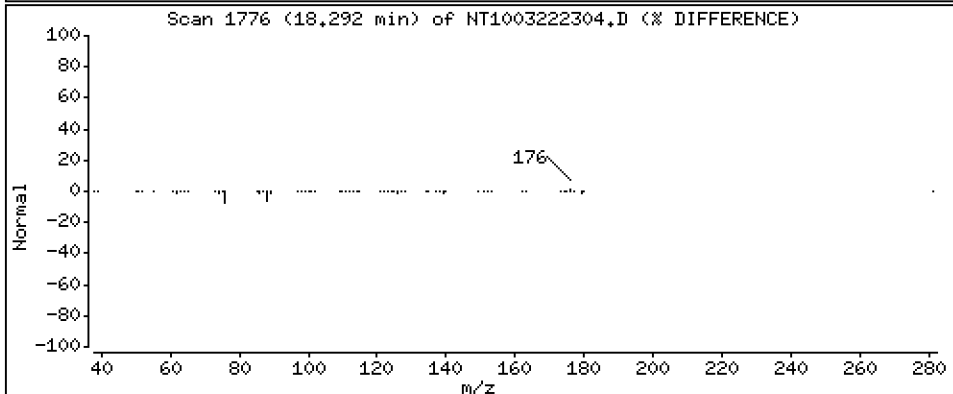
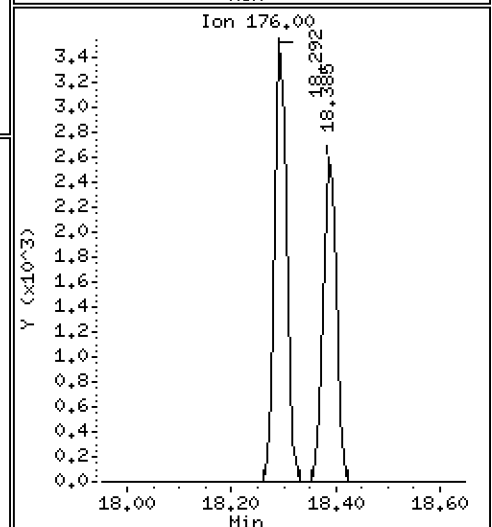
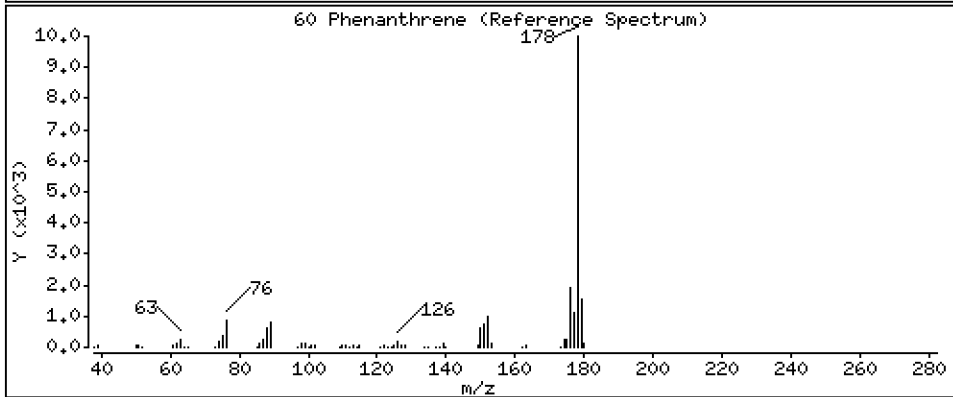
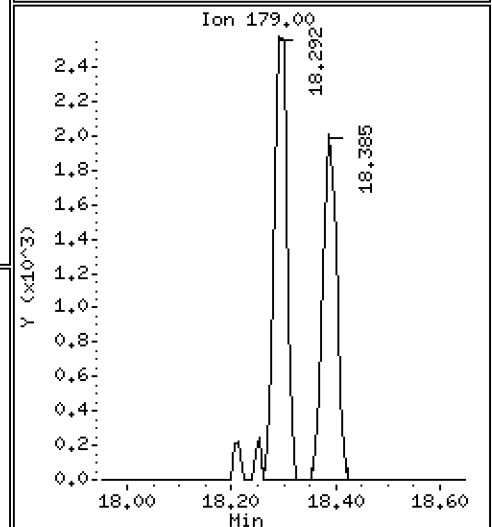
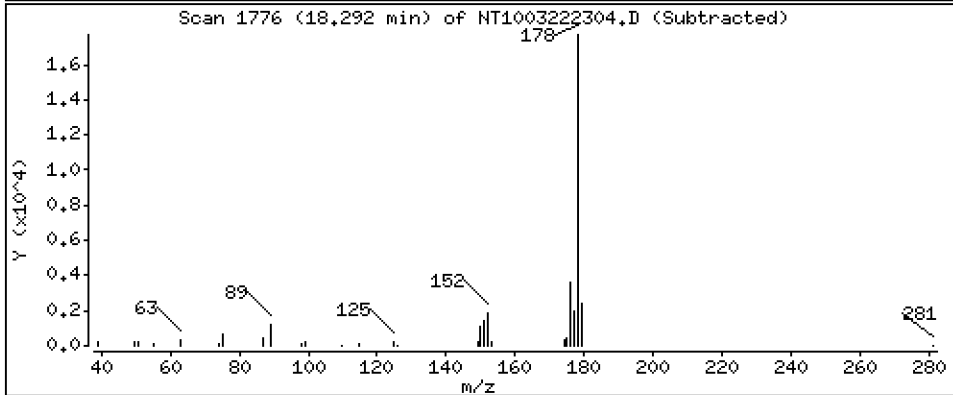
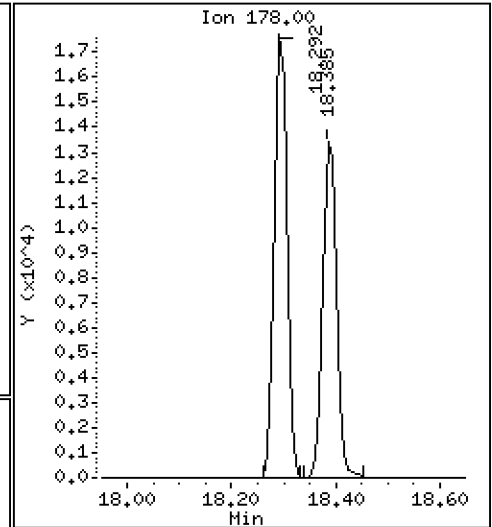
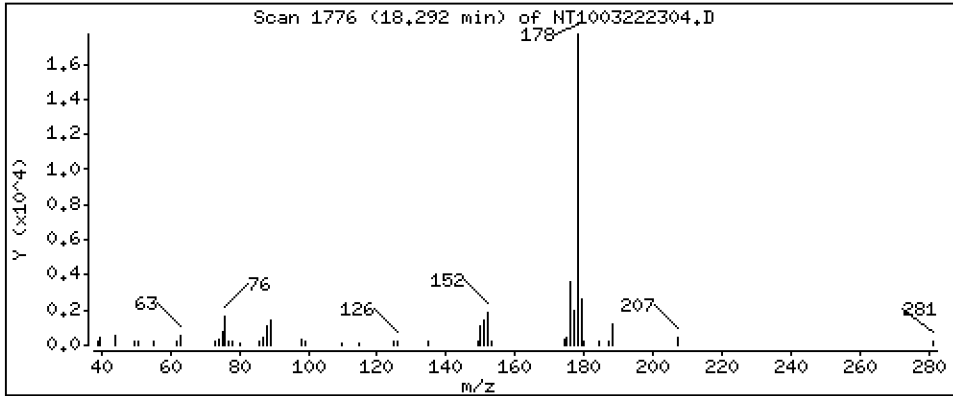
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

60 Phenanthrene

Concentration: 0.2068 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

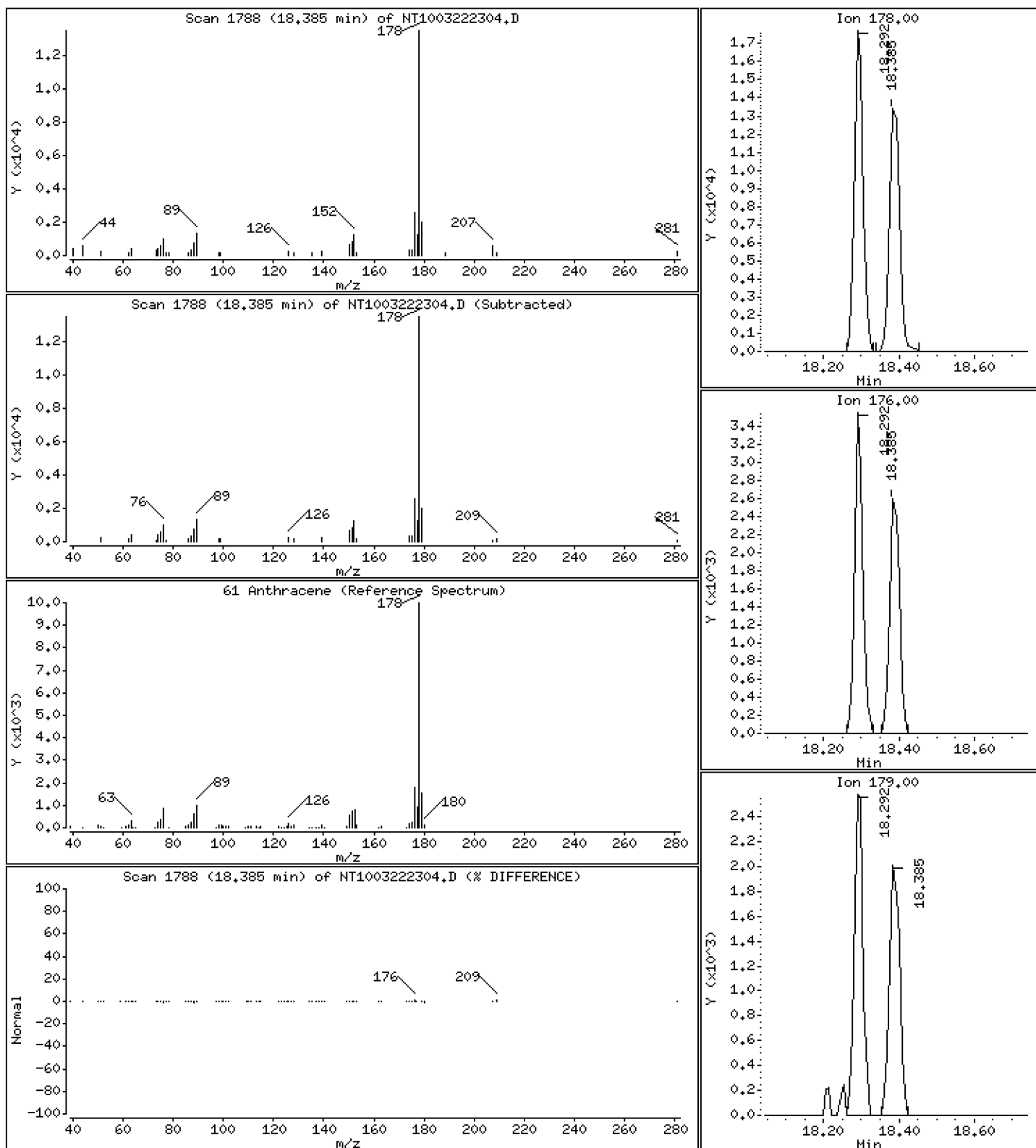
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 0,1820 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

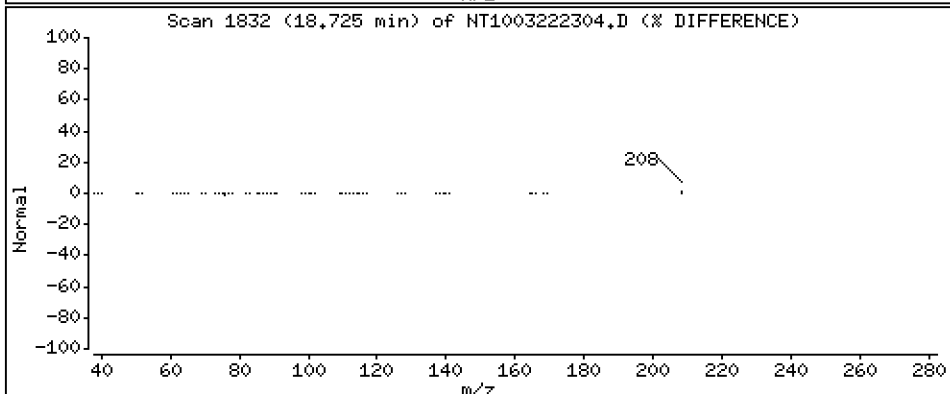
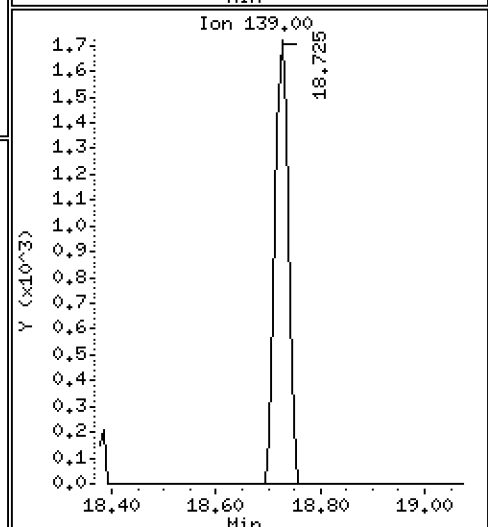
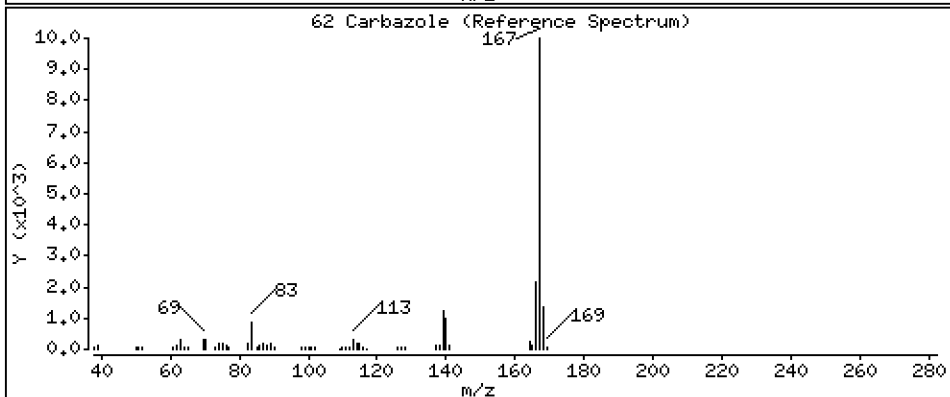
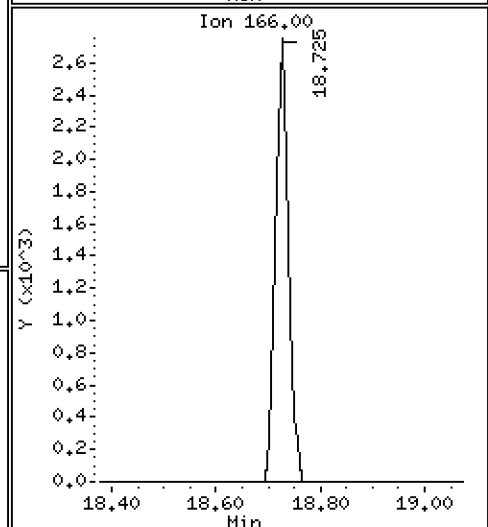
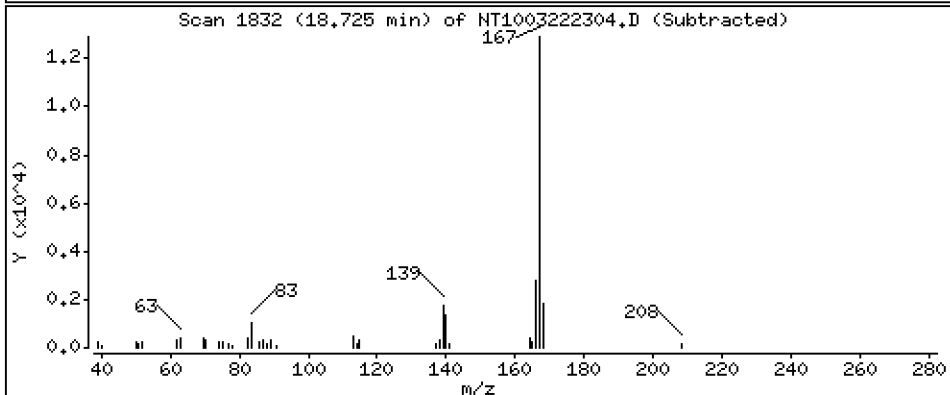
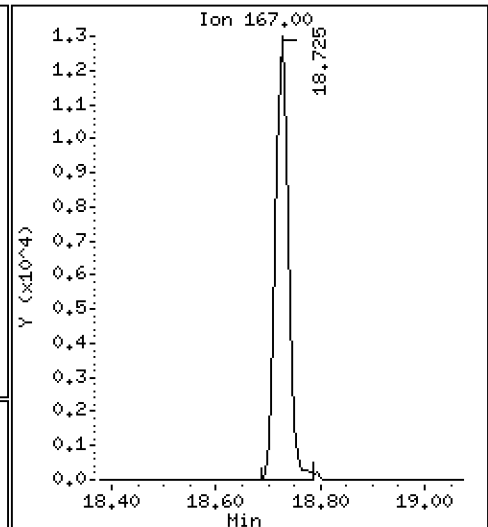
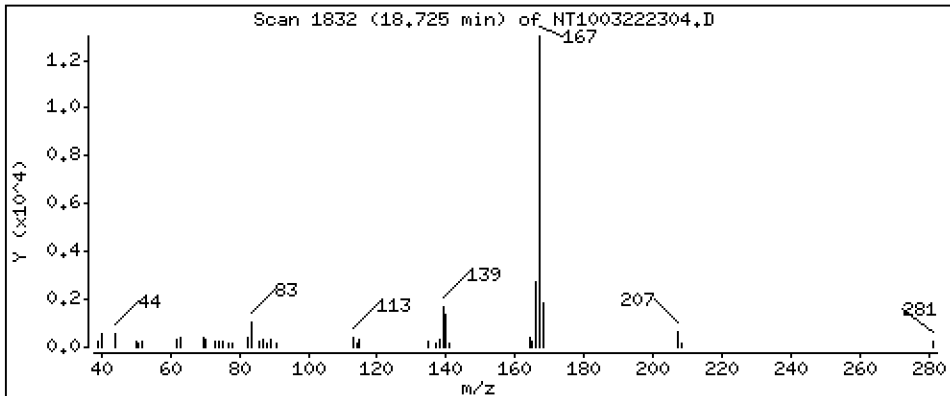
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 0,1832 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

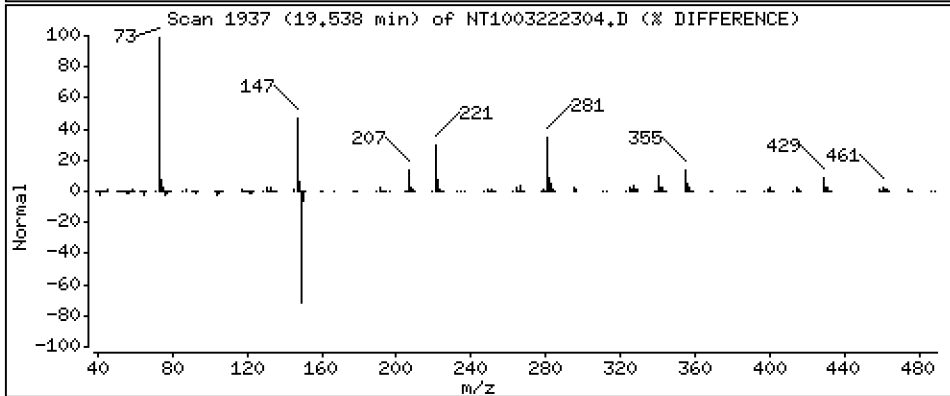
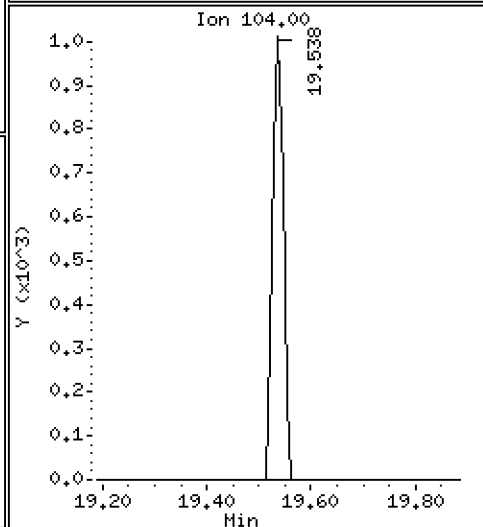
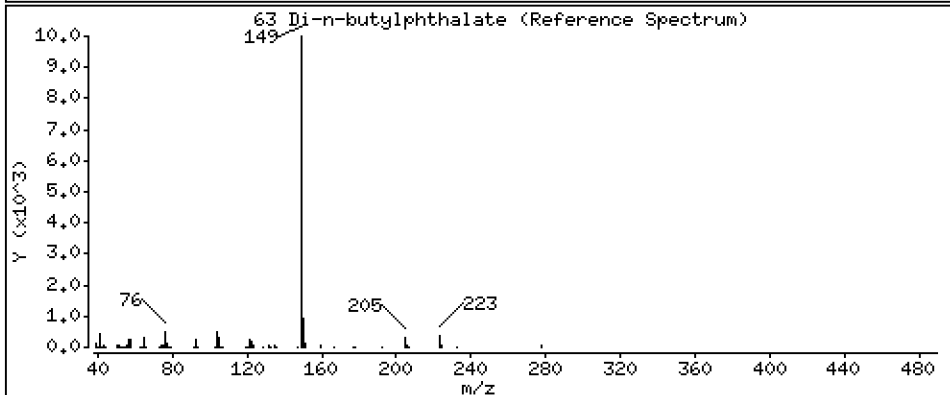
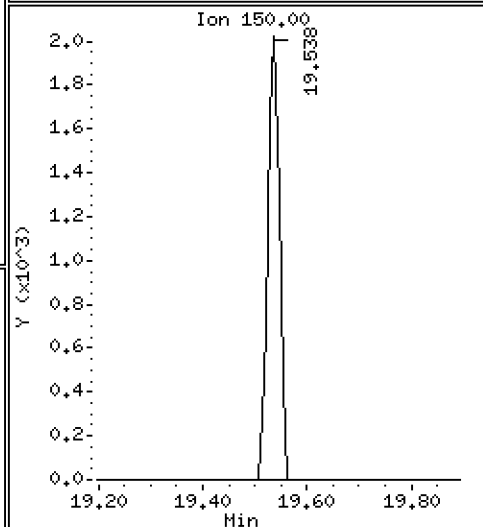
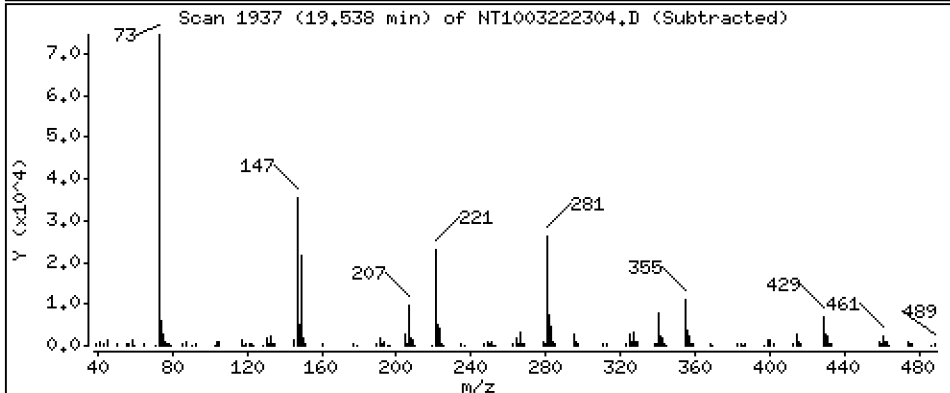
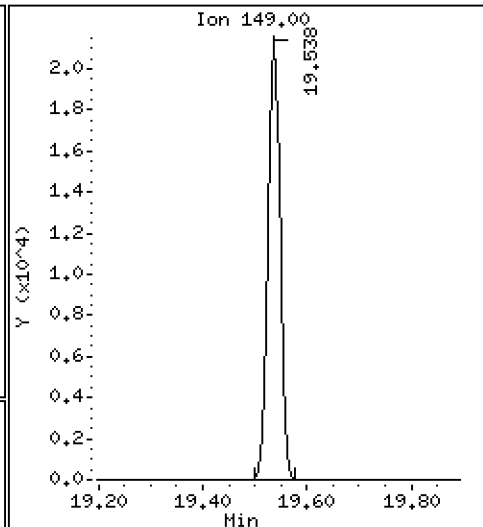
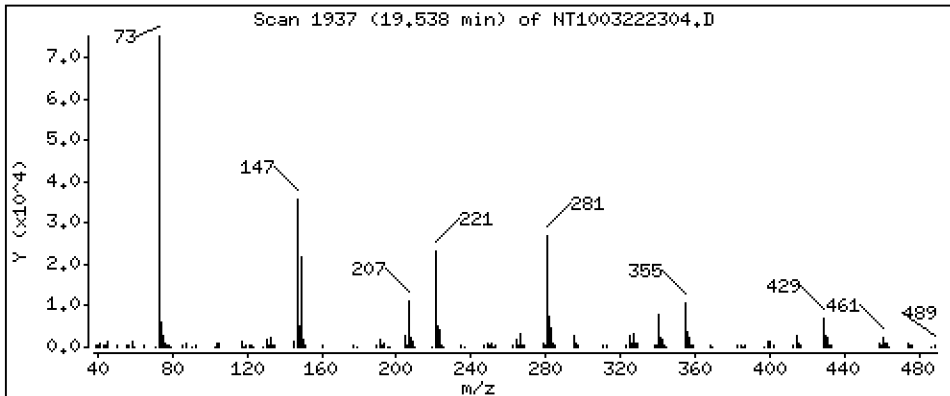
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 0,2065 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

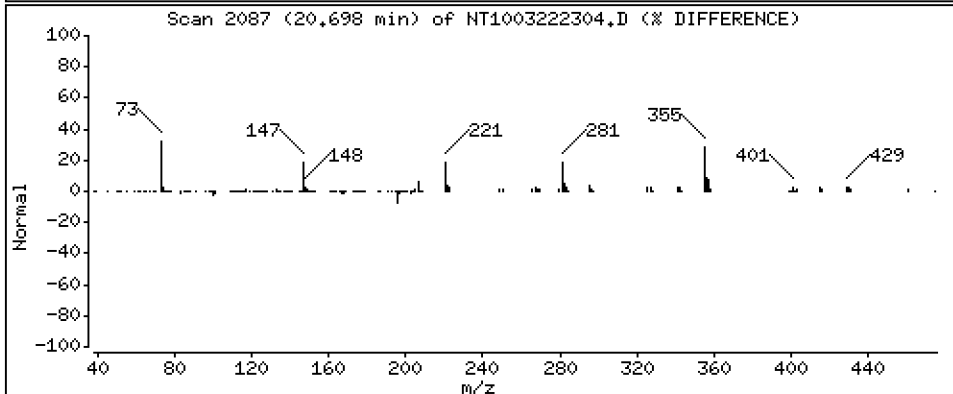
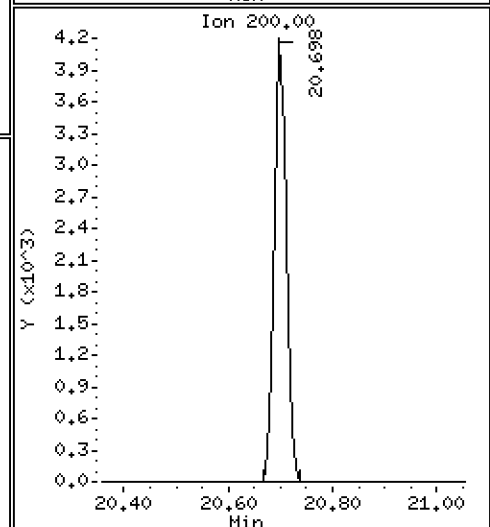
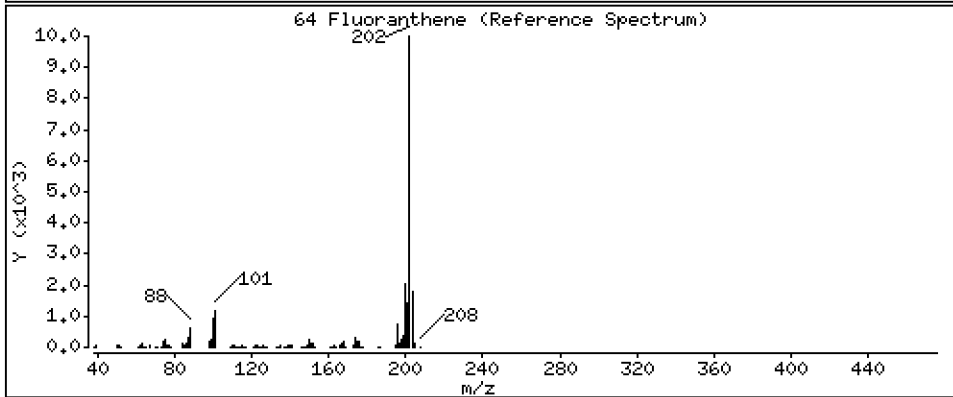
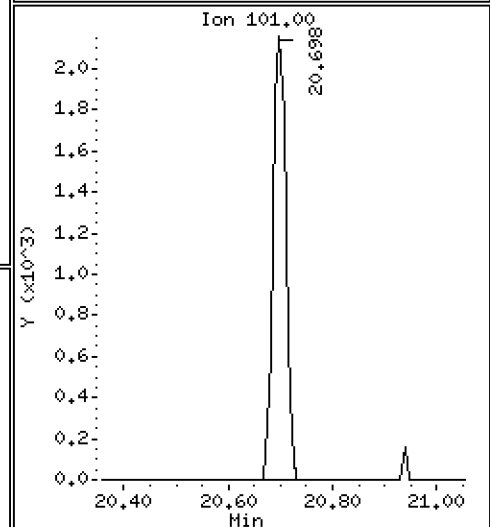
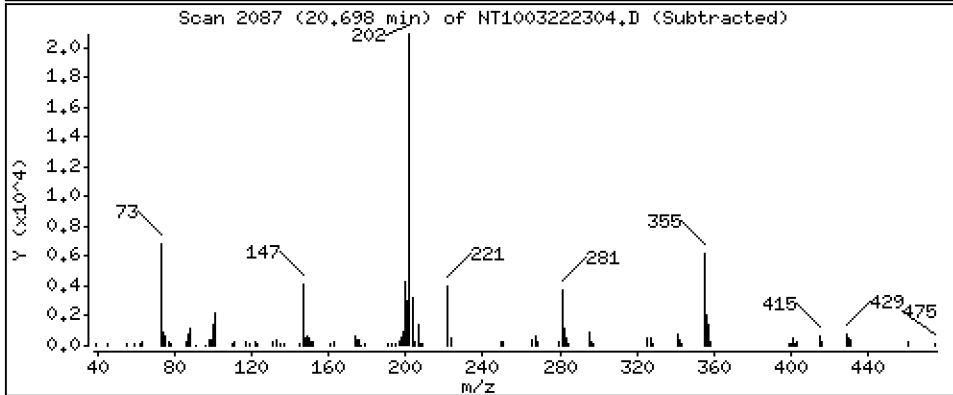
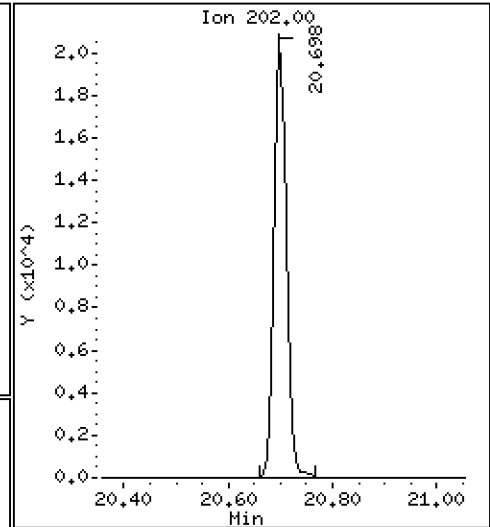
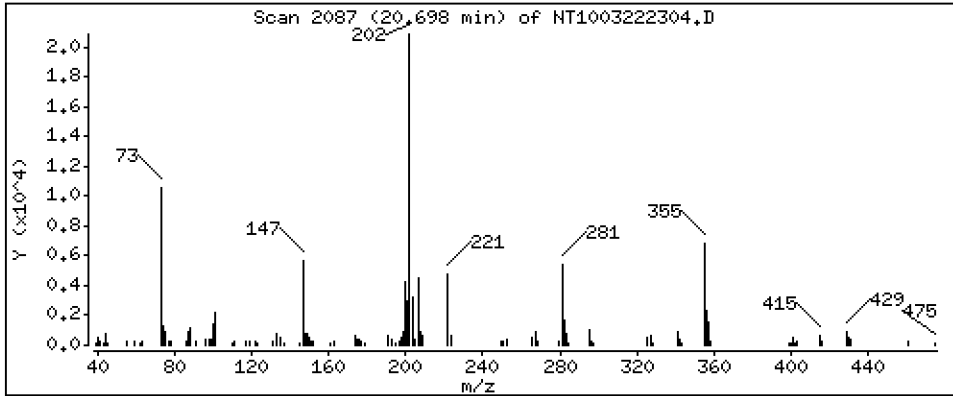
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 0,1833 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

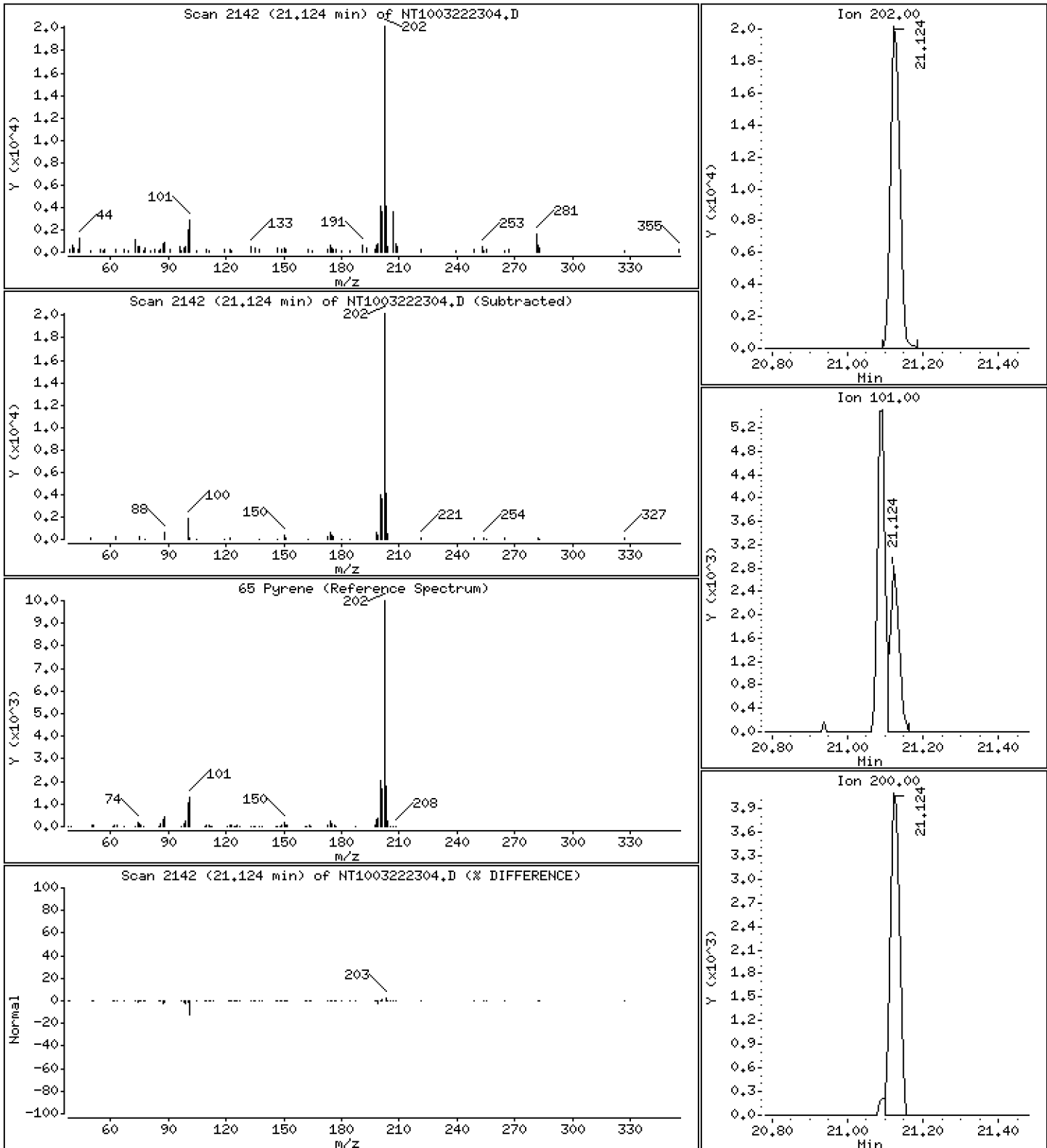
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 0,1830 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

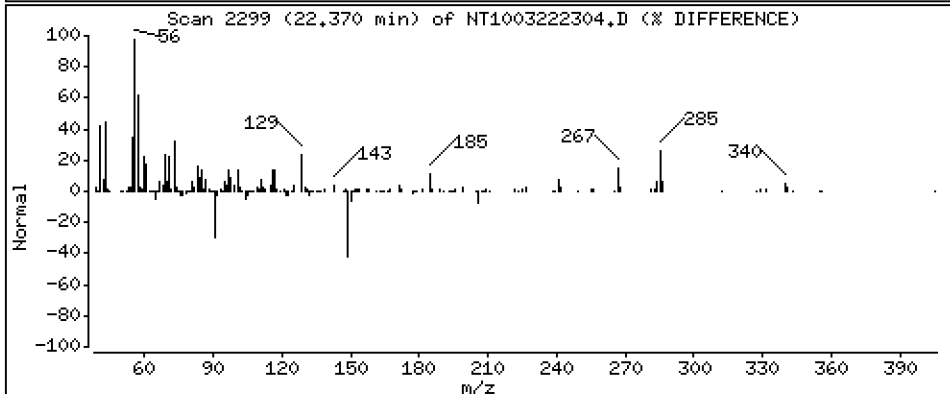
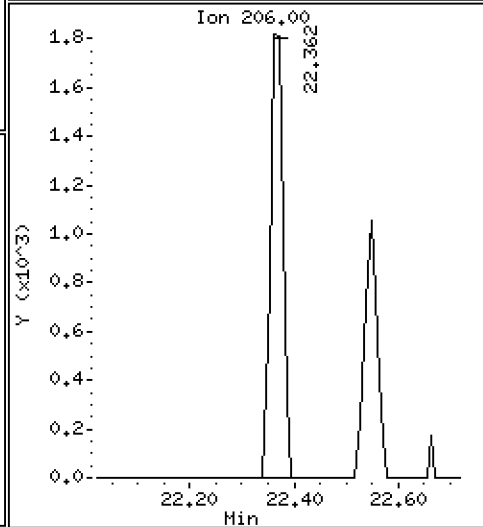
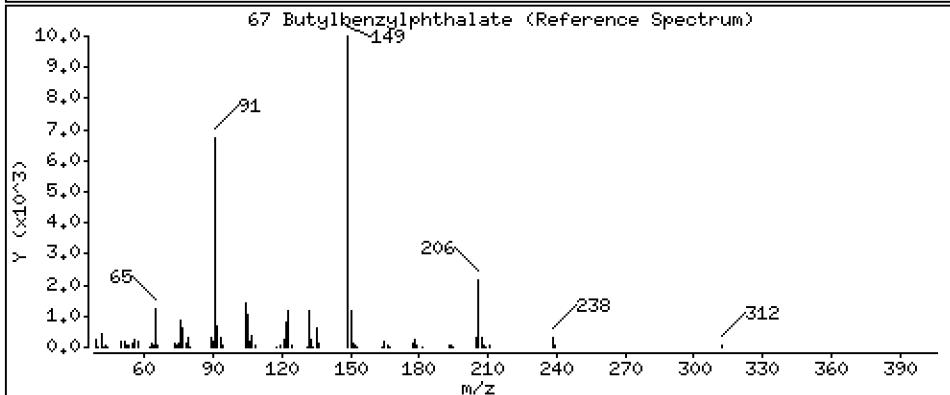
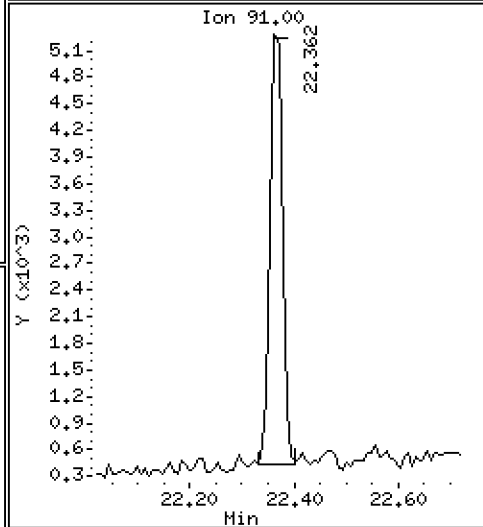
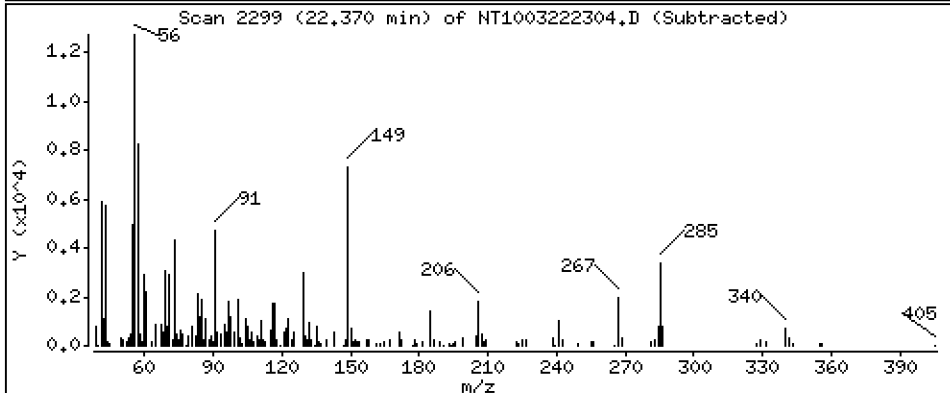
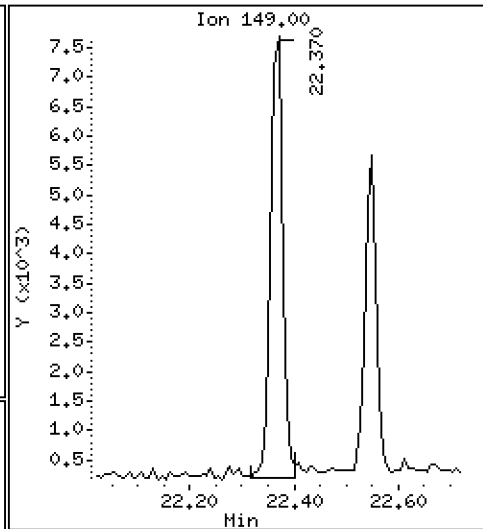
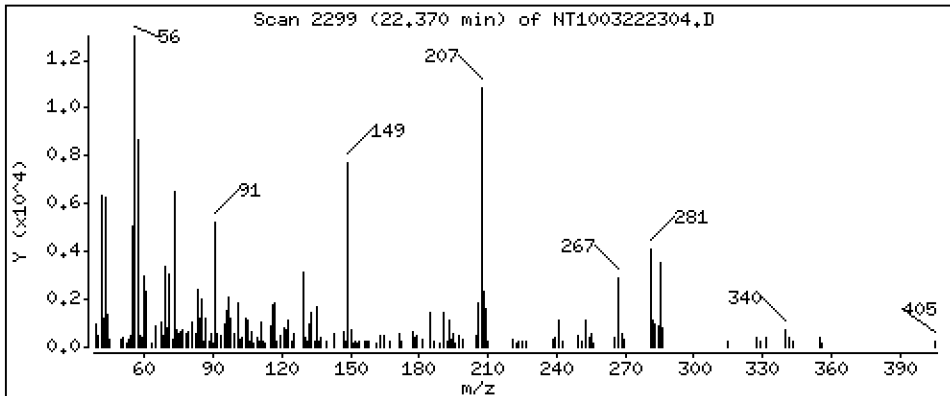
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 0,1836 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

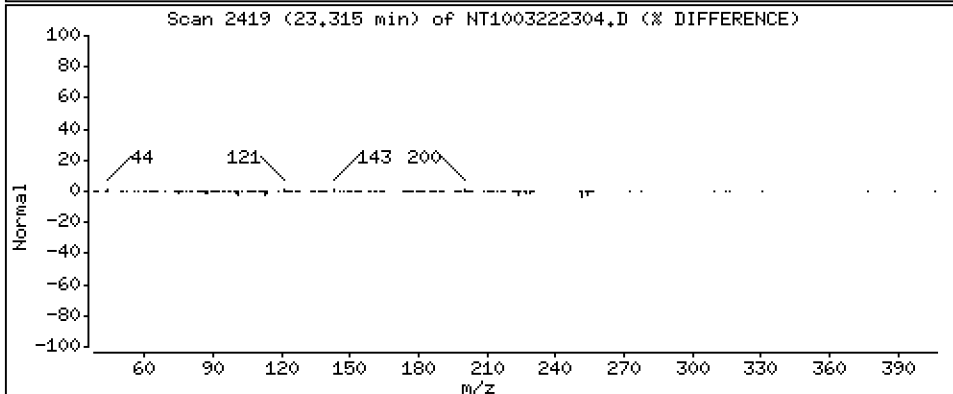
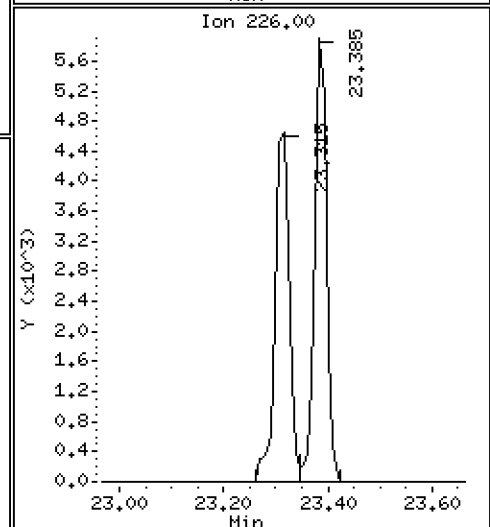
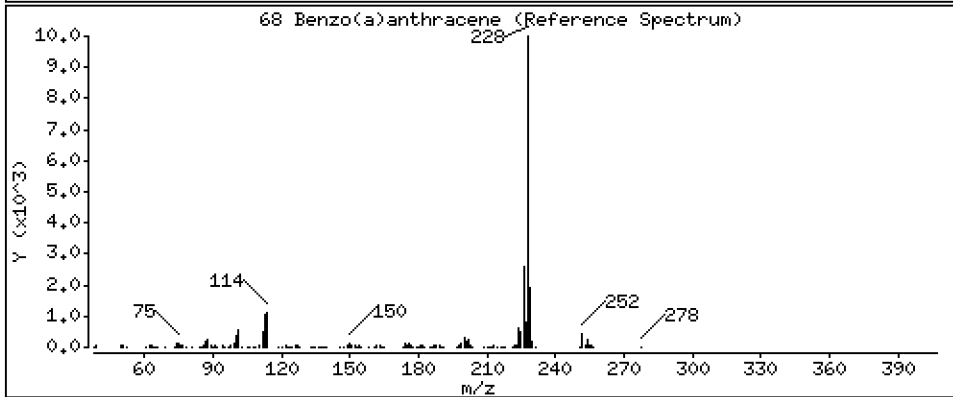
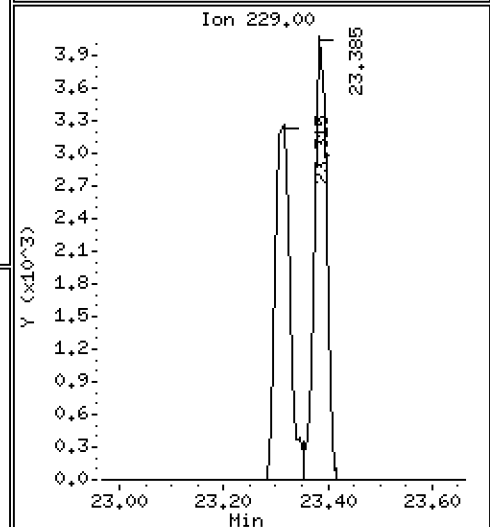
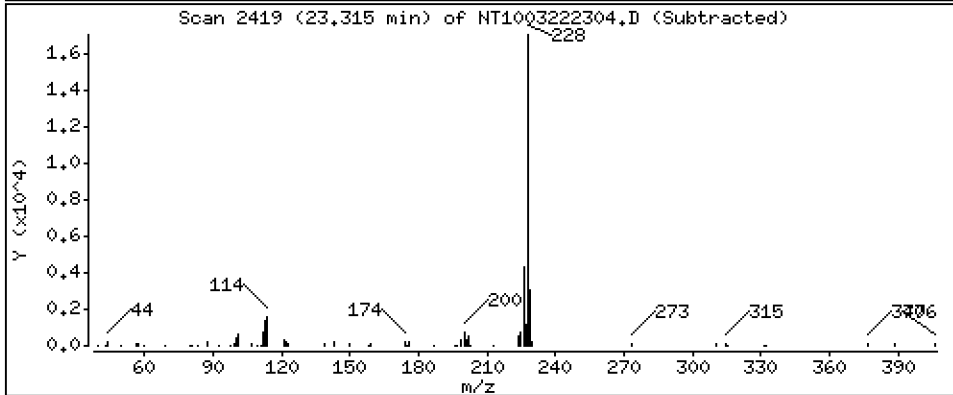
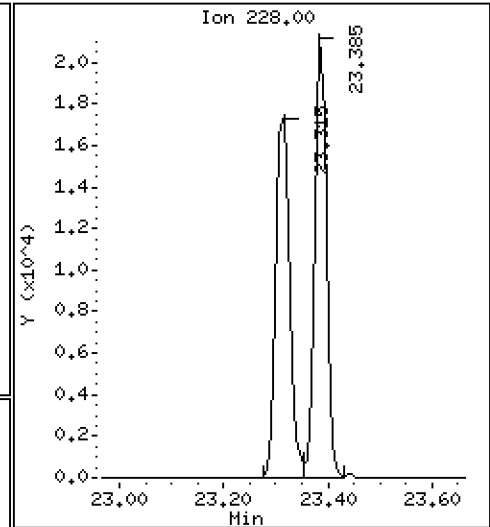
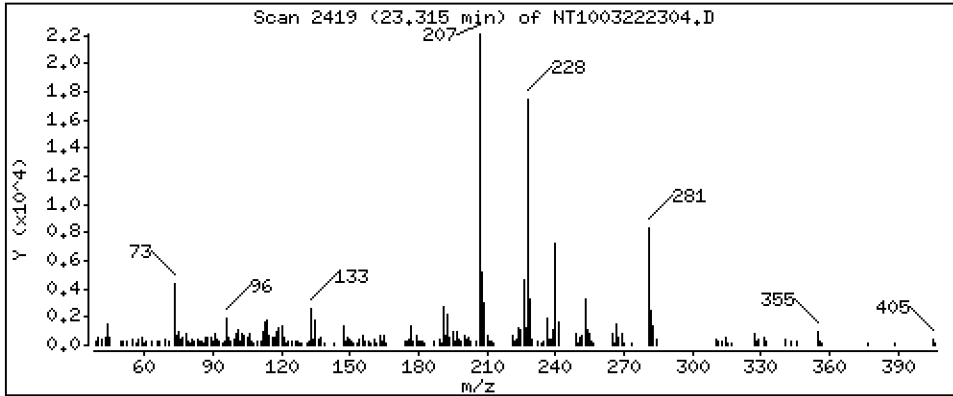
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 0,2005 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

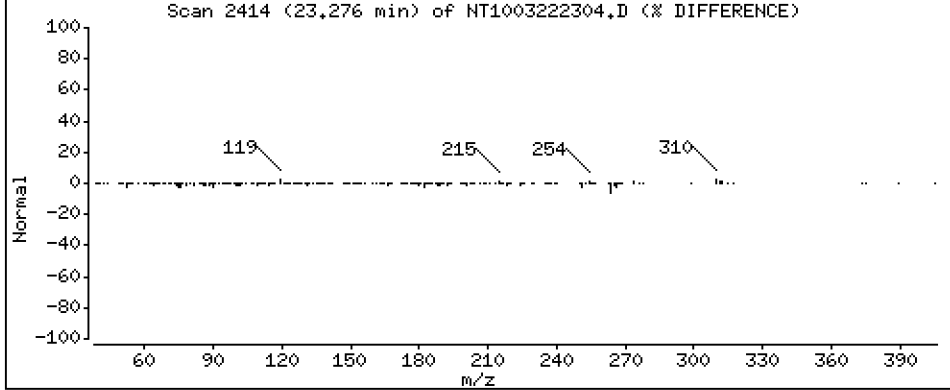
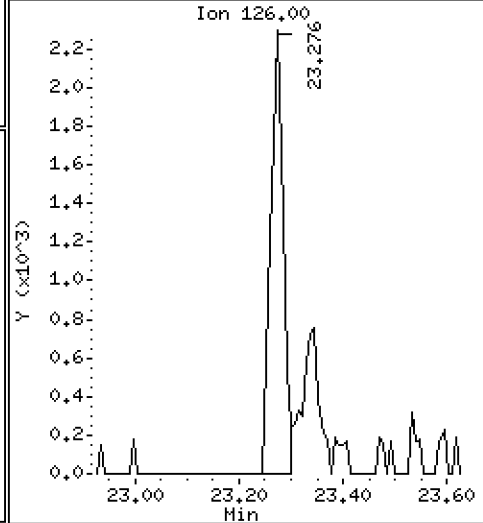
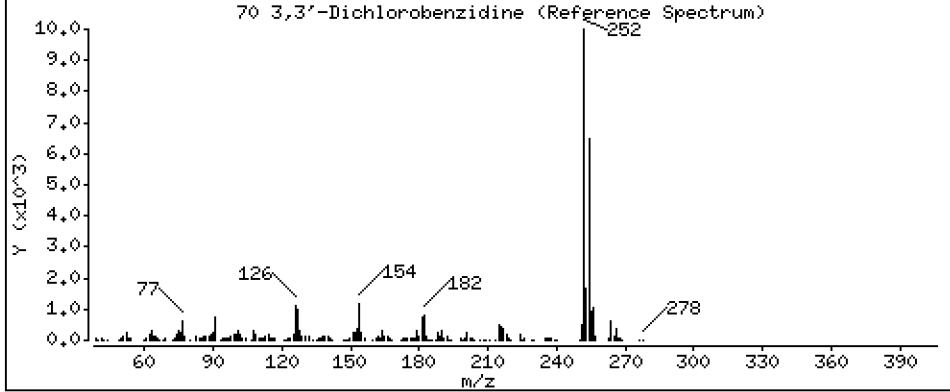
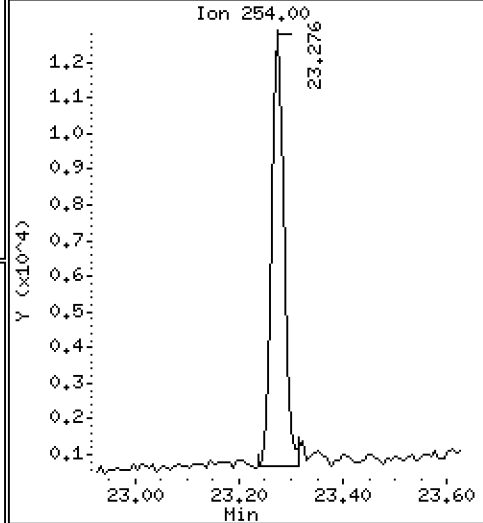
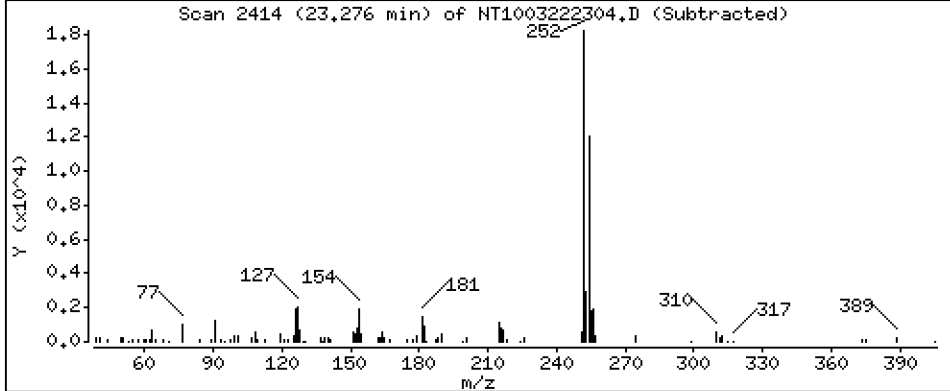
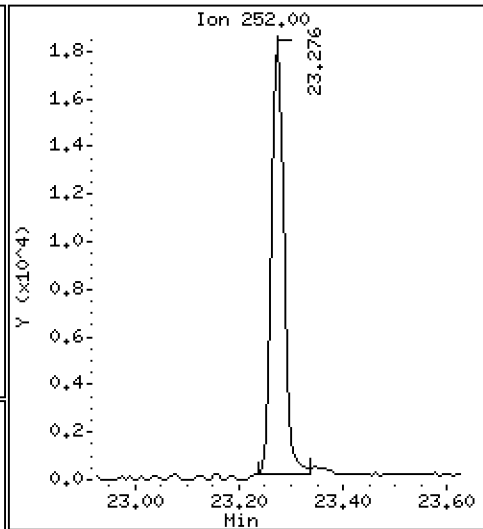
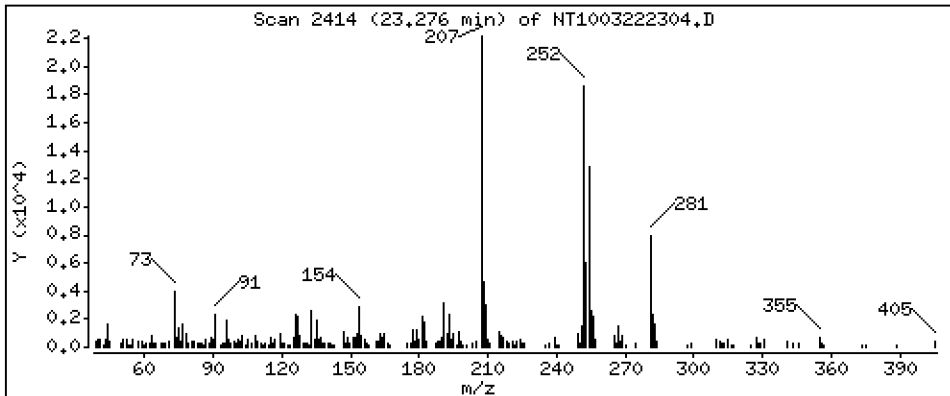
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

70 3,3'-Dichlorobenzidine

Concentration: 0,5900 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

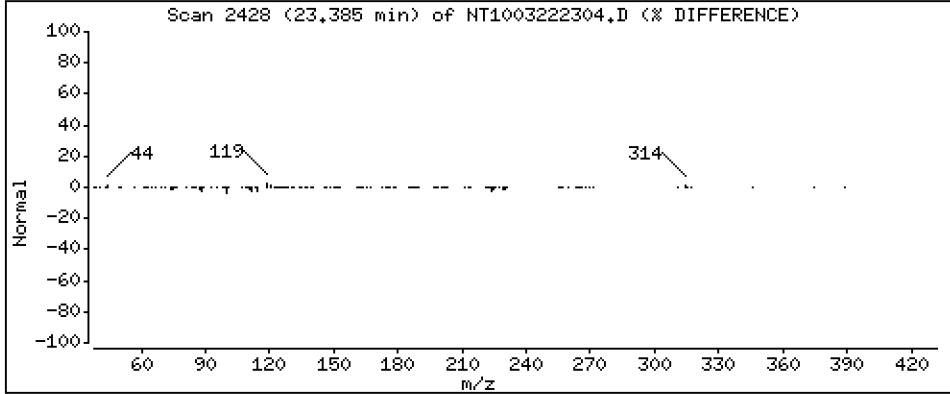
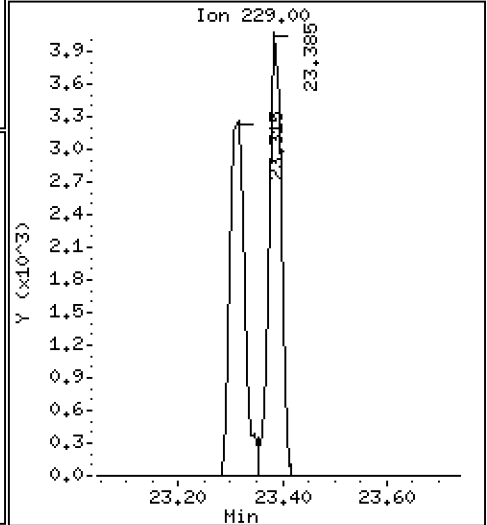
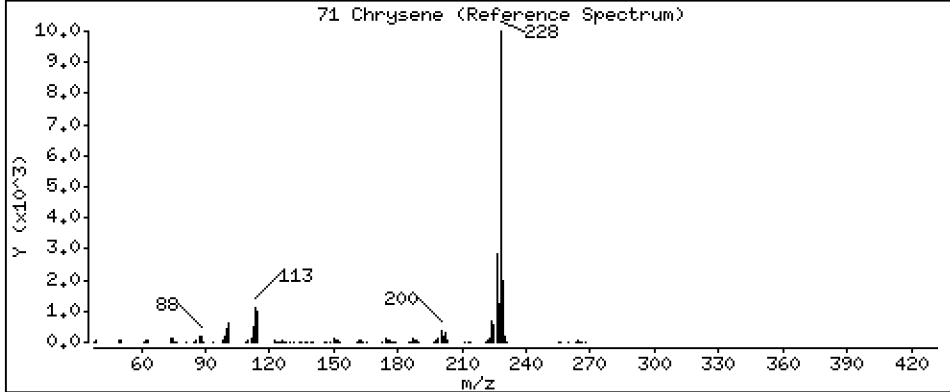
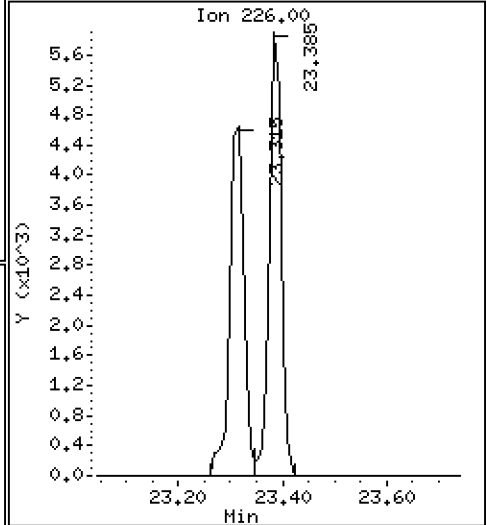
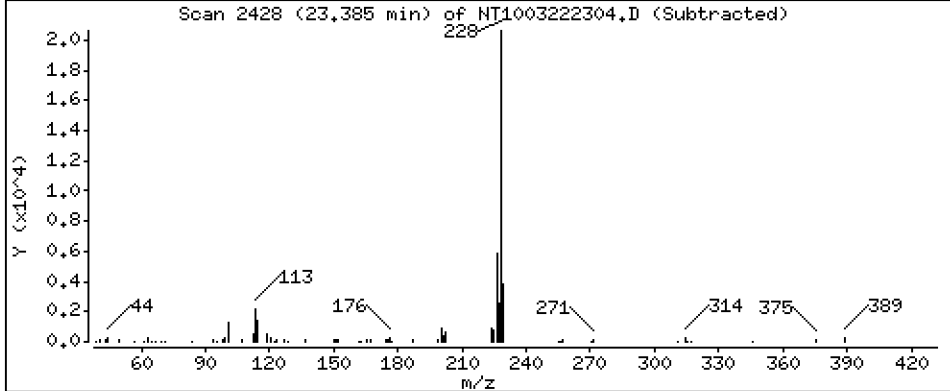
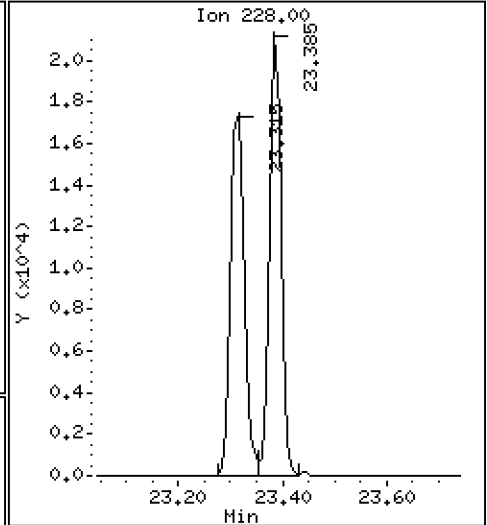
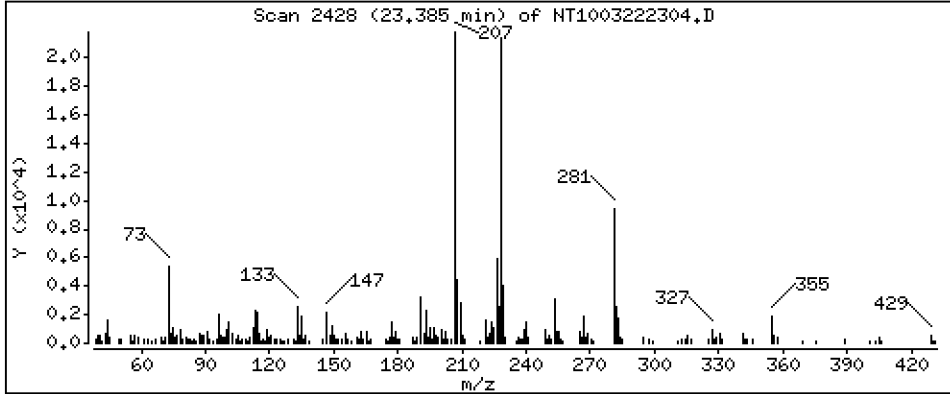
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 0,2053 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

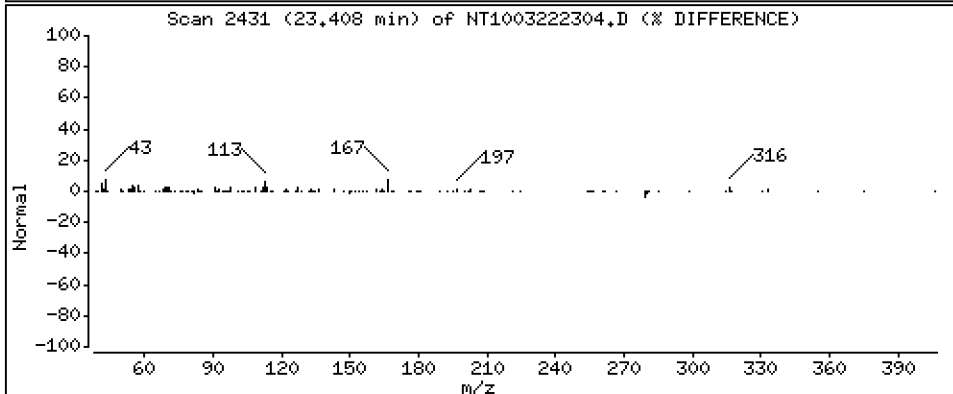
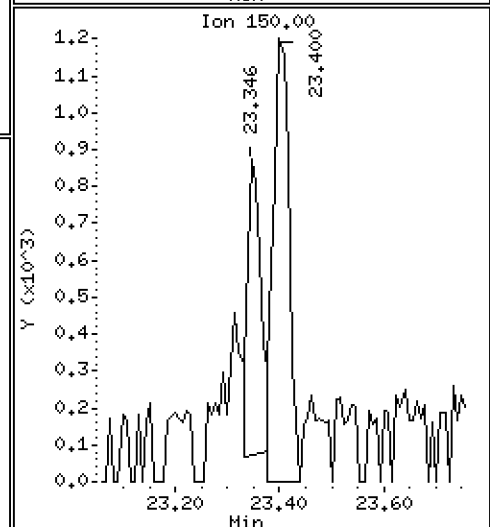
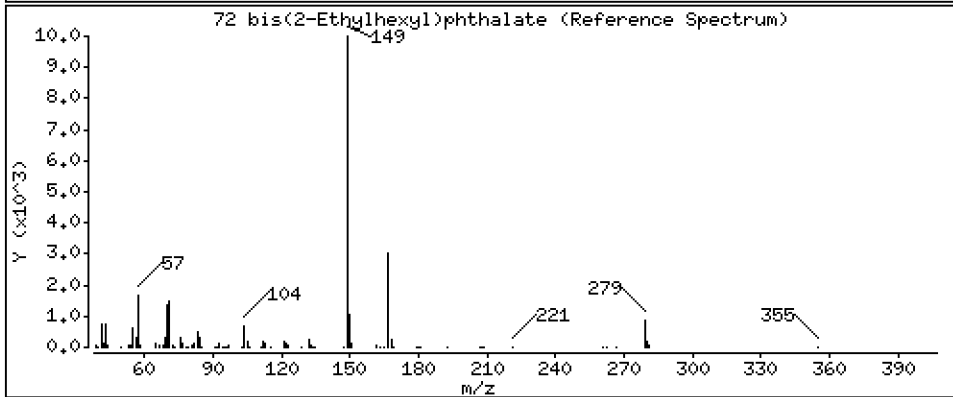
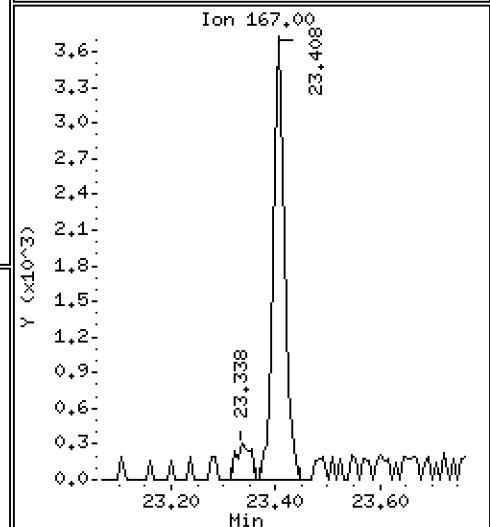
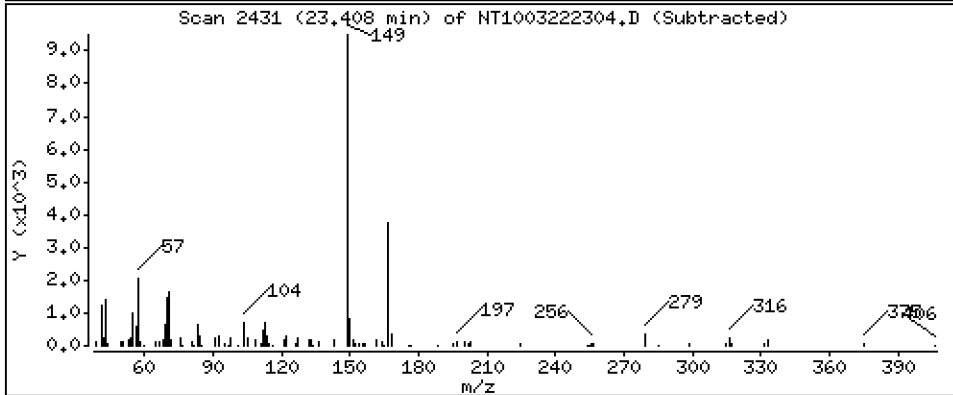
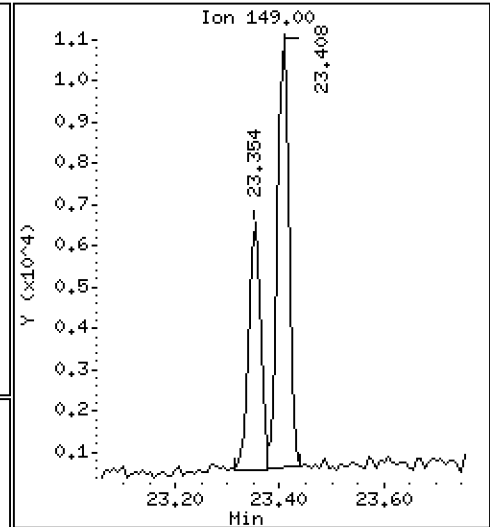
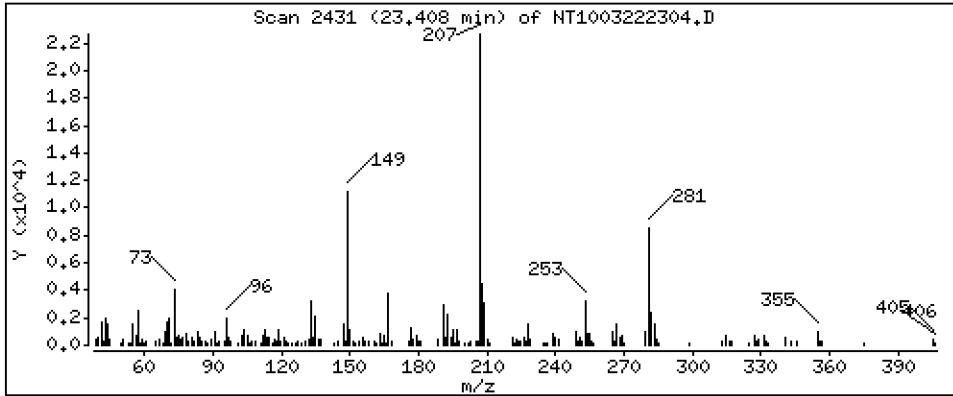
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 0,1653 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

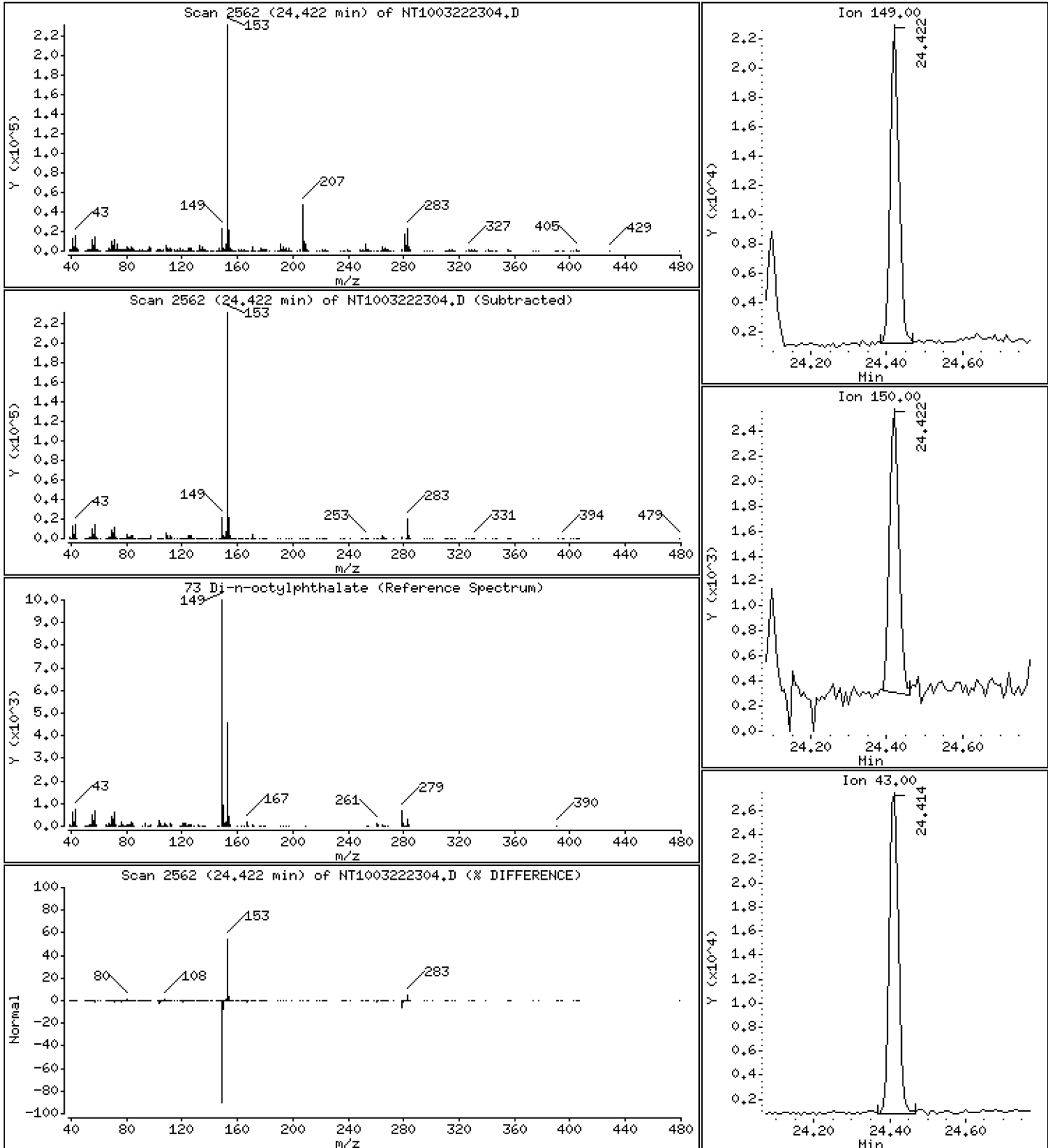
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 0,2061 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

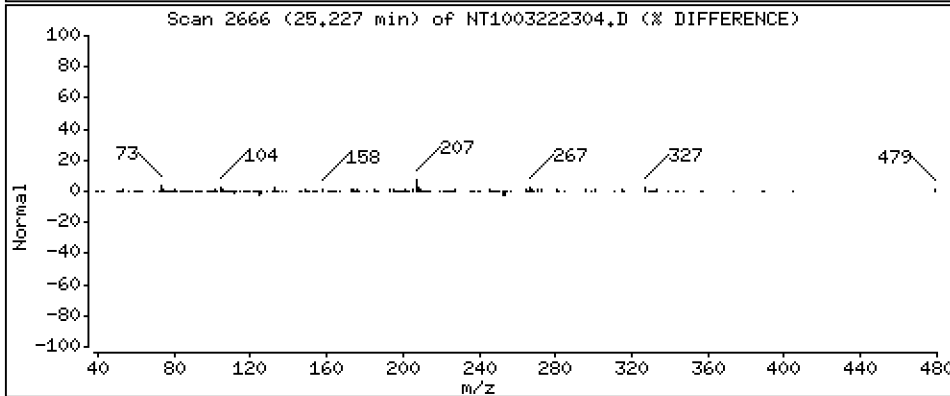
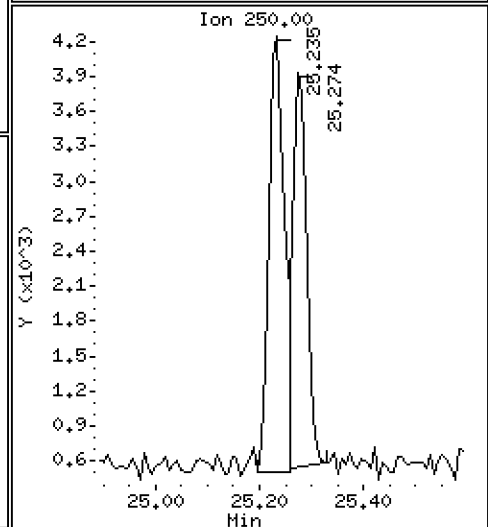
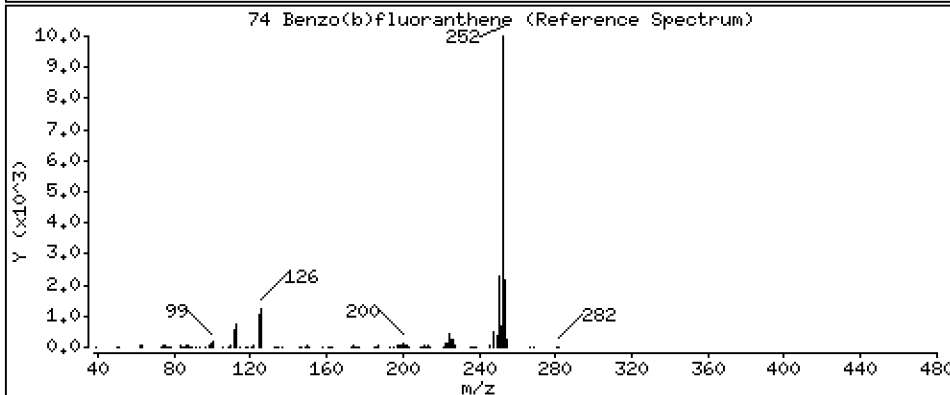
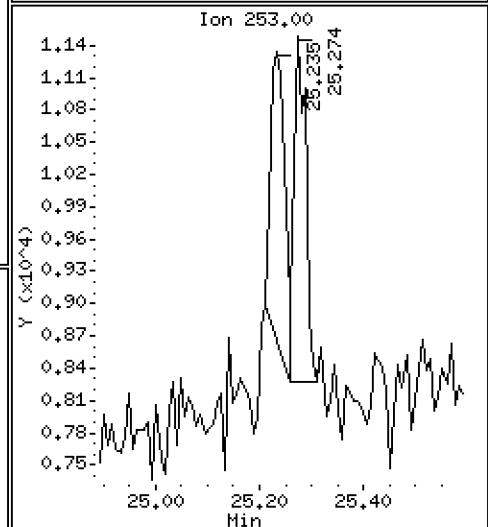
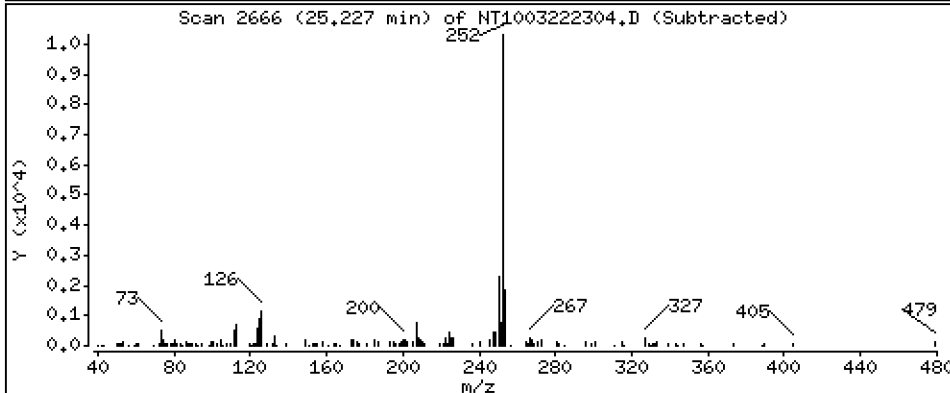
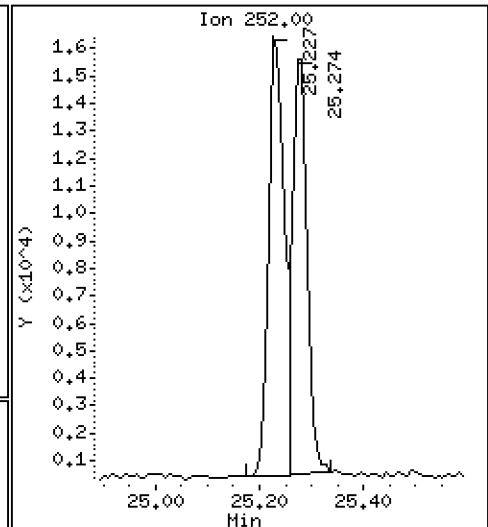
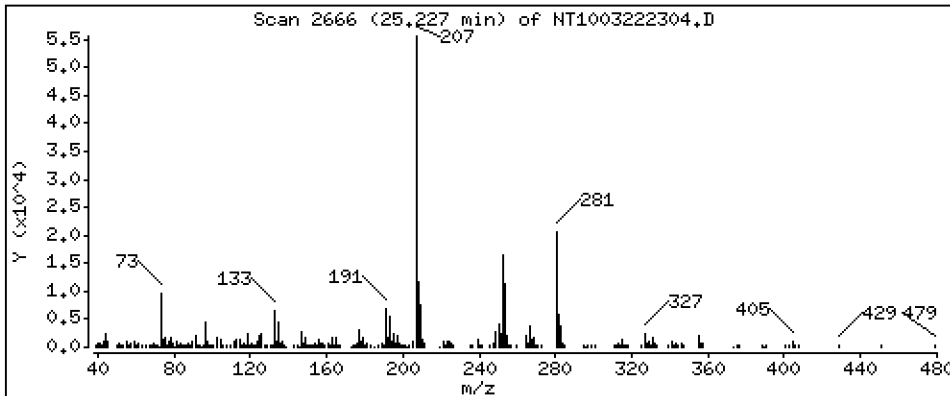
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 0,2162 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

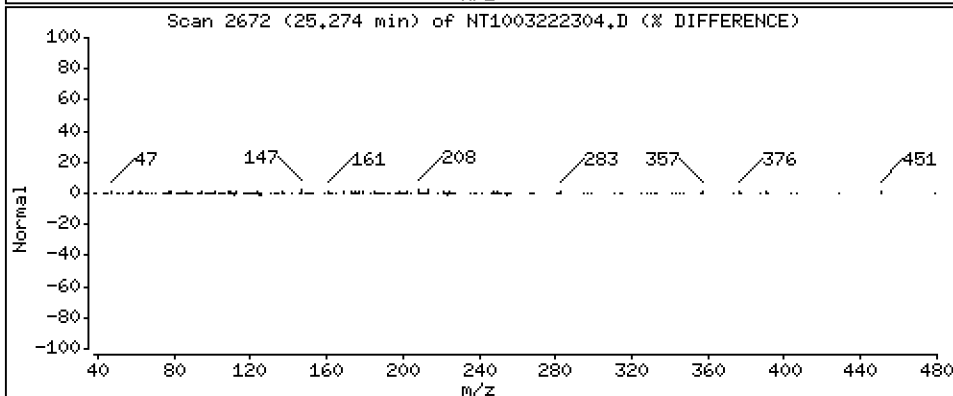
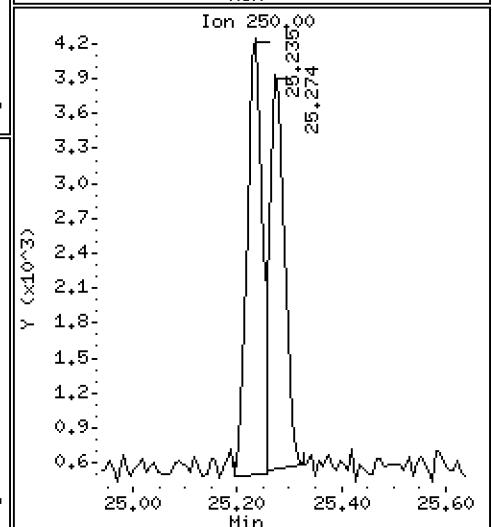
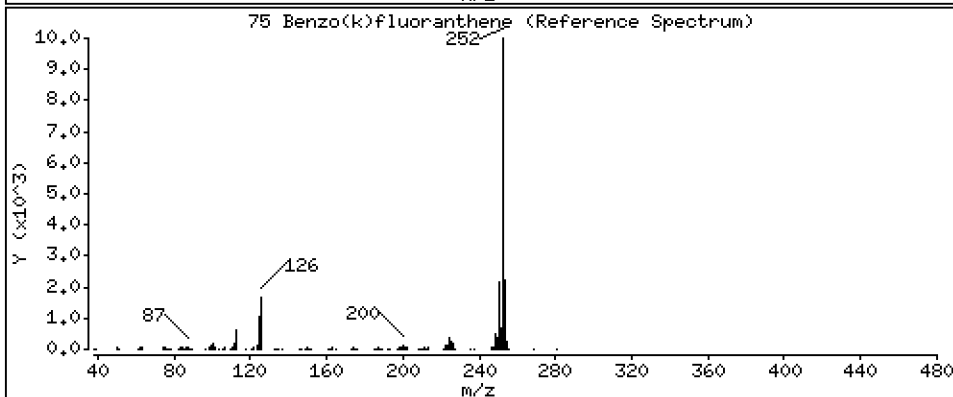
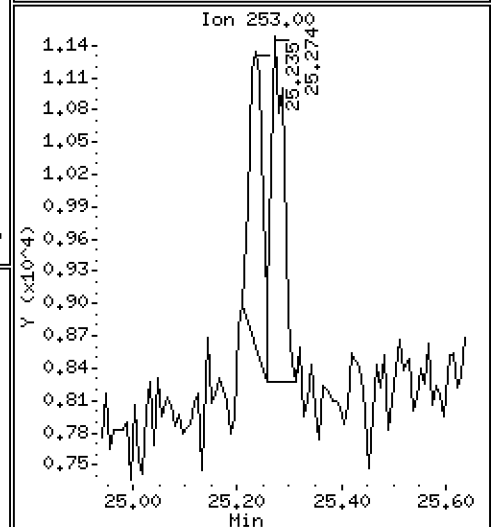
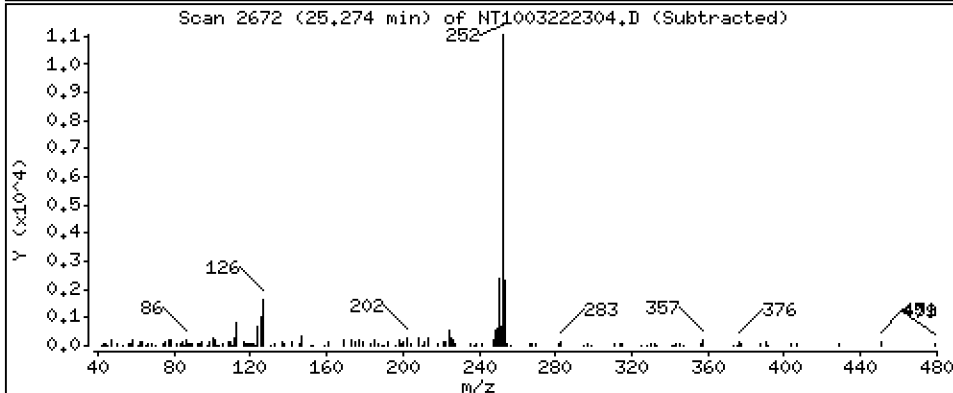
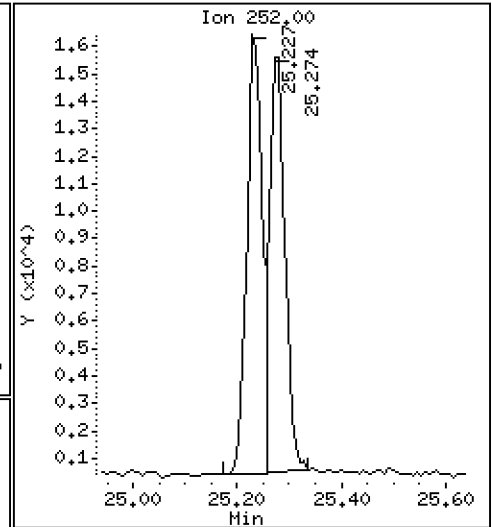
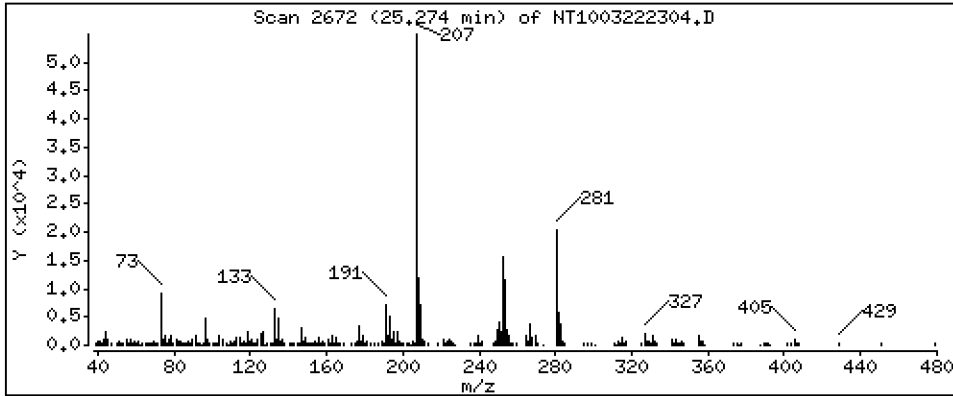
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 0,1936 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

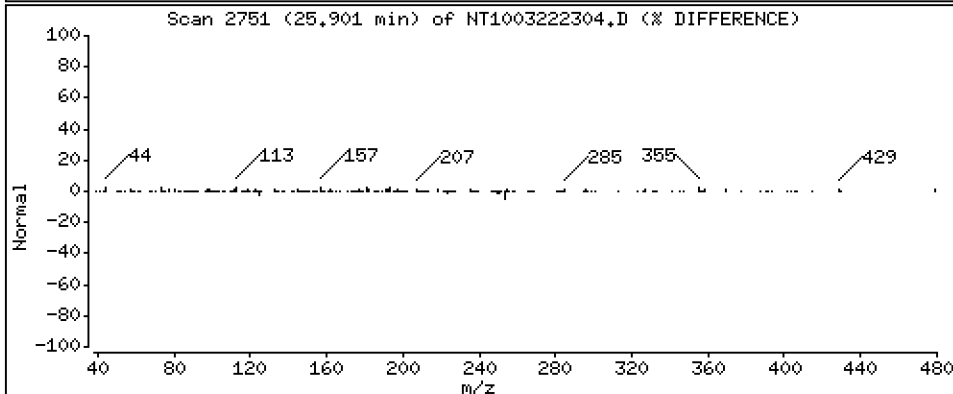
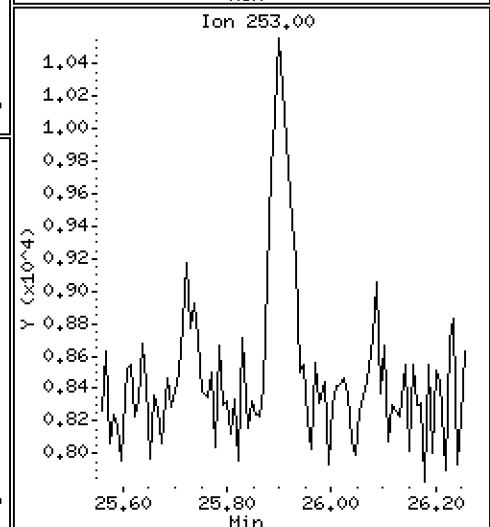
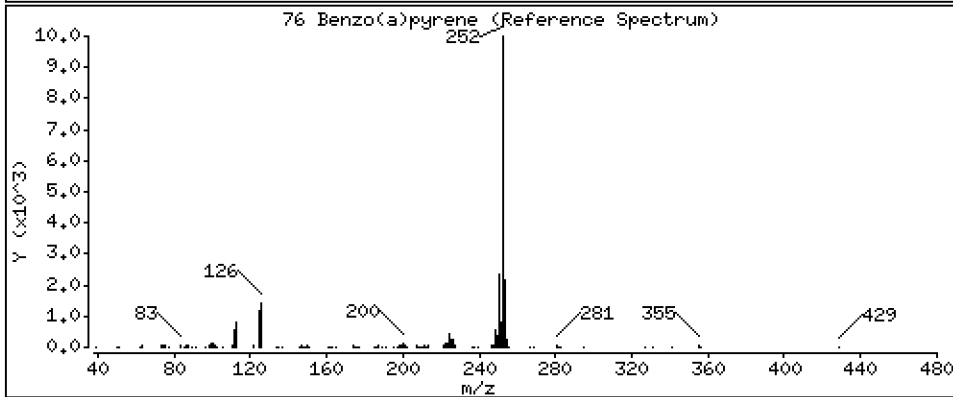
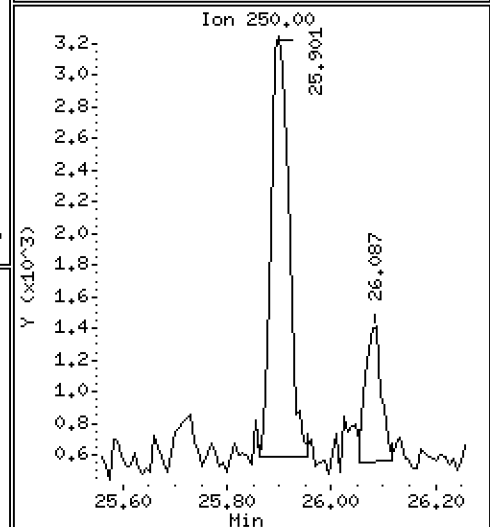
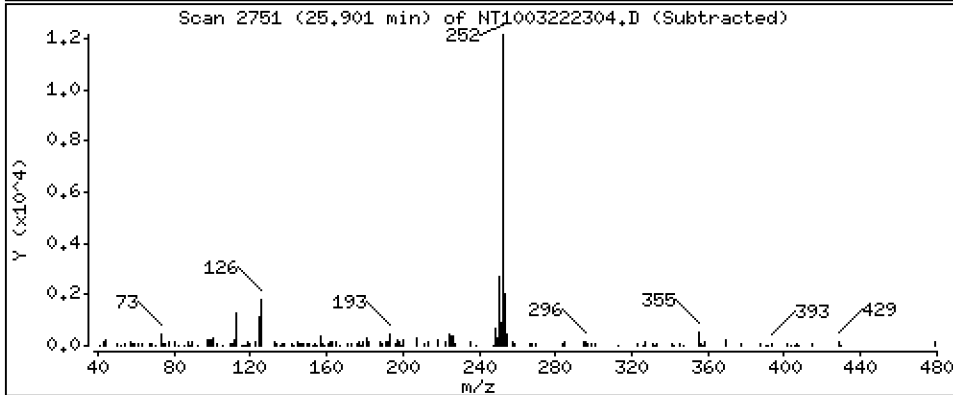
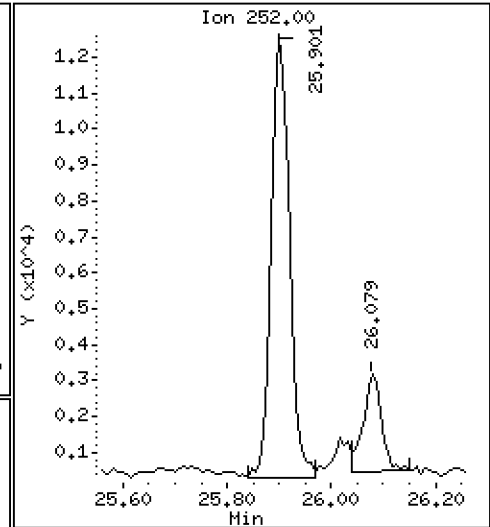
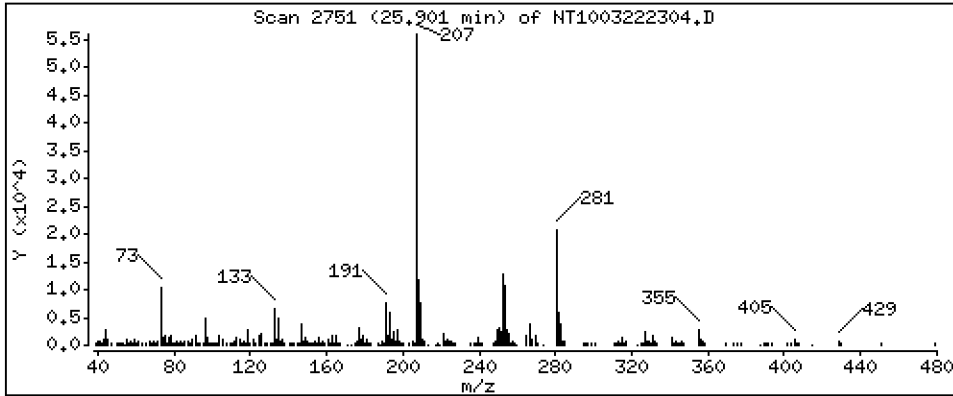
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 0,2049 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

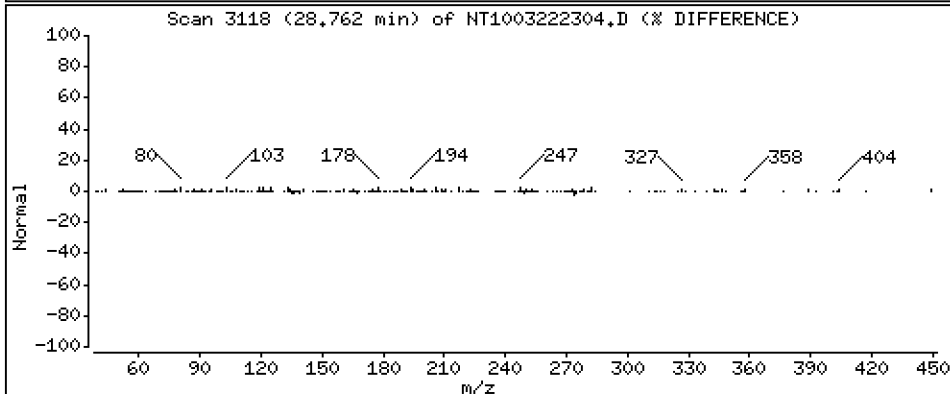
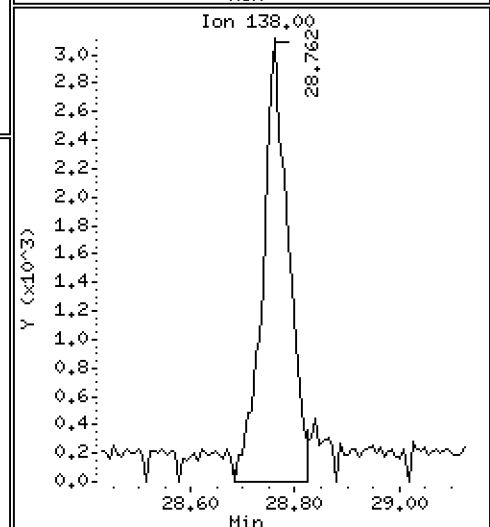
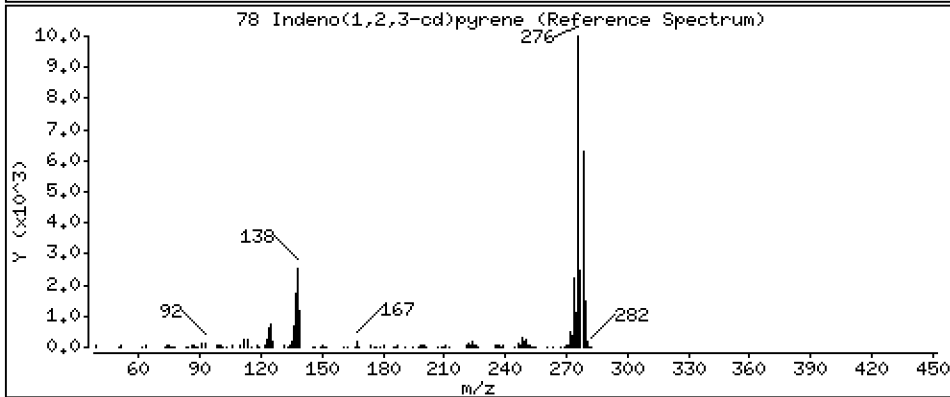
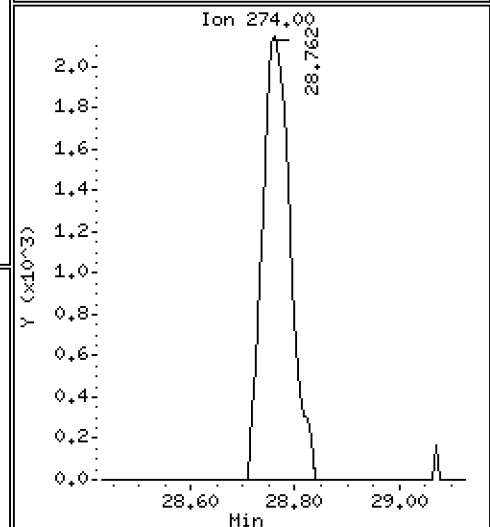
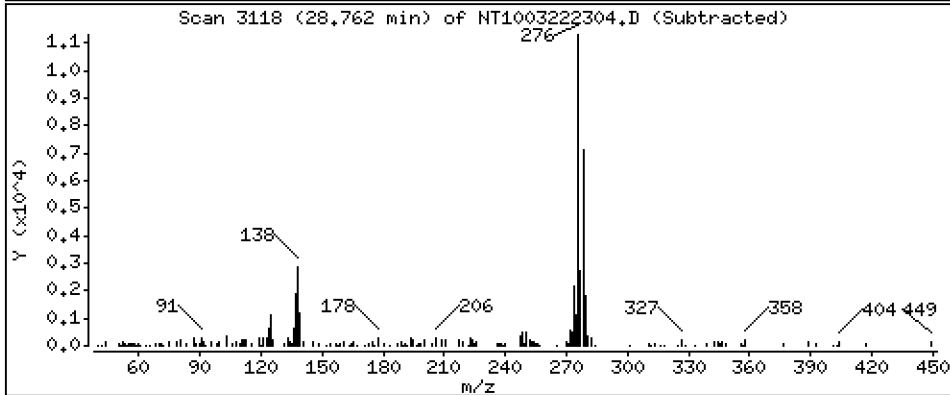
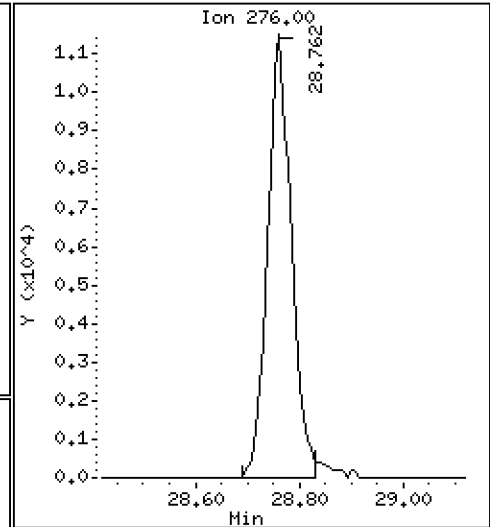
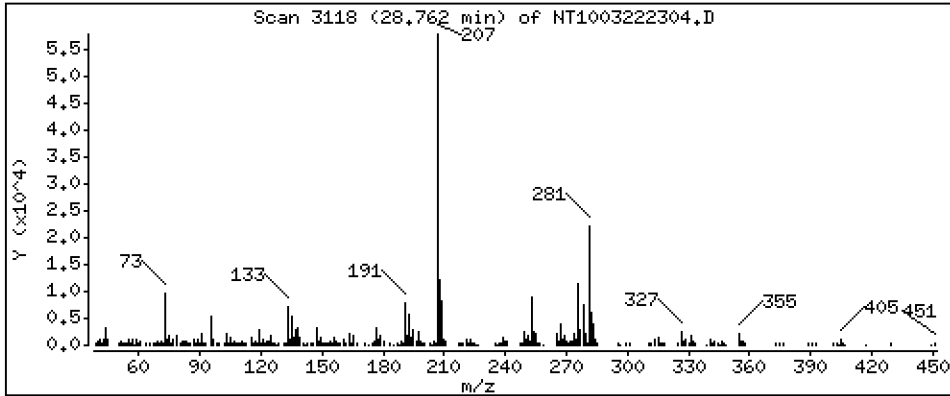
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 0,1973 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

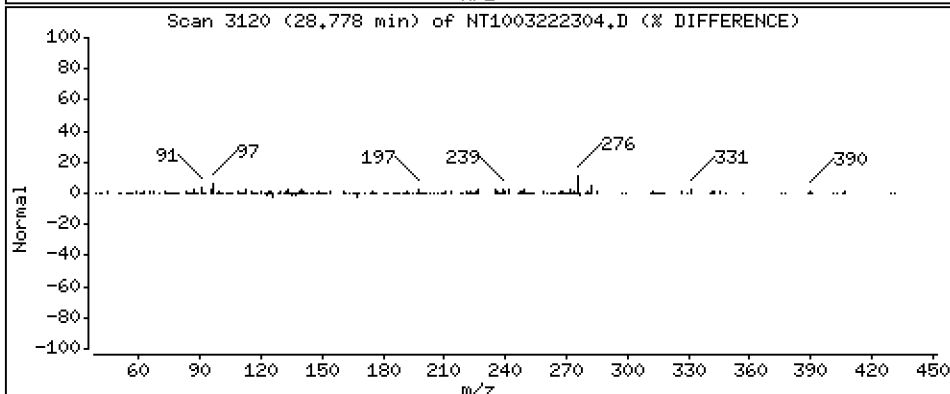
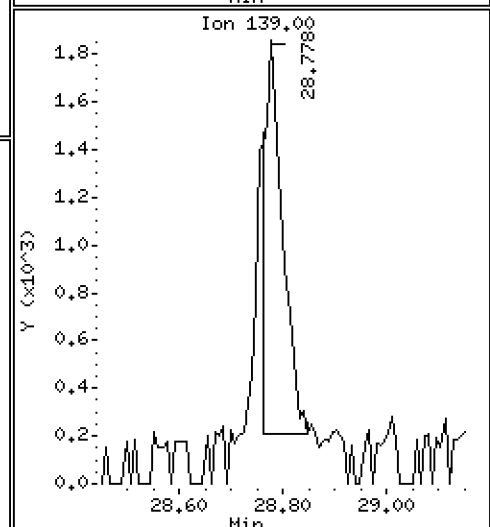
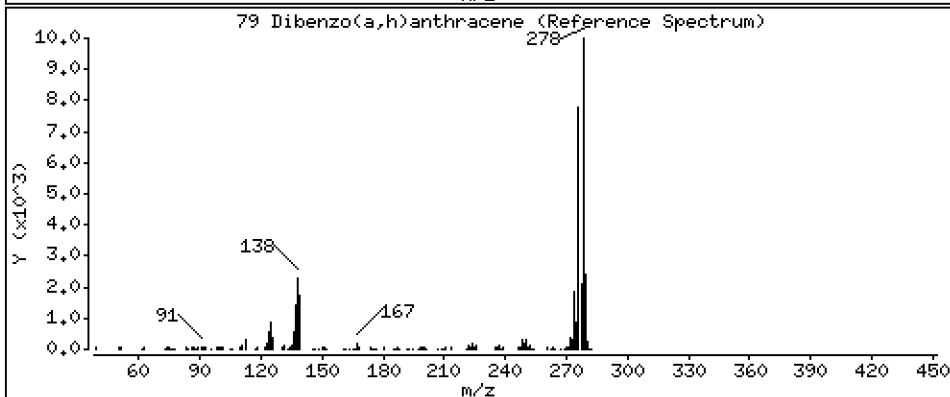
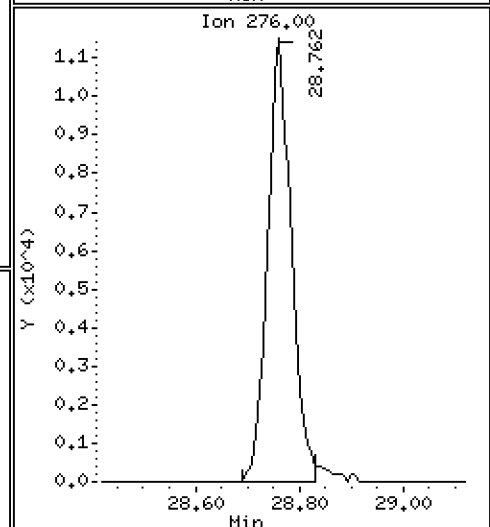
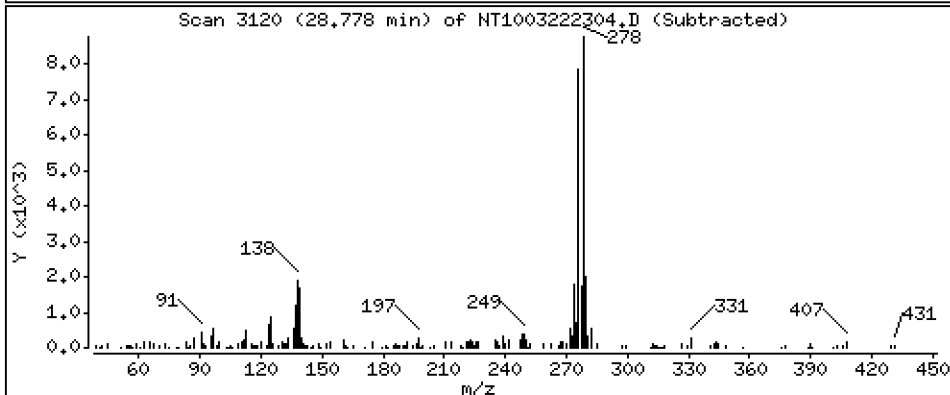
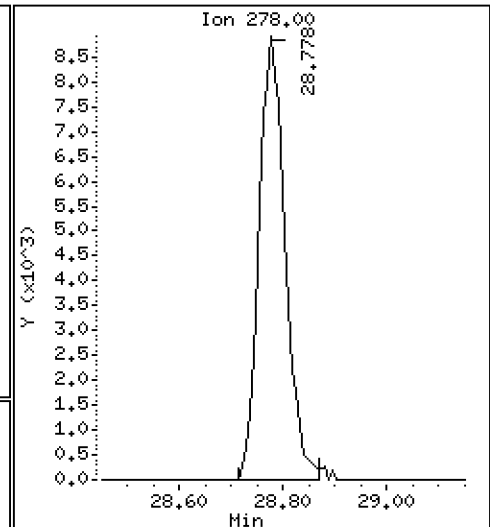
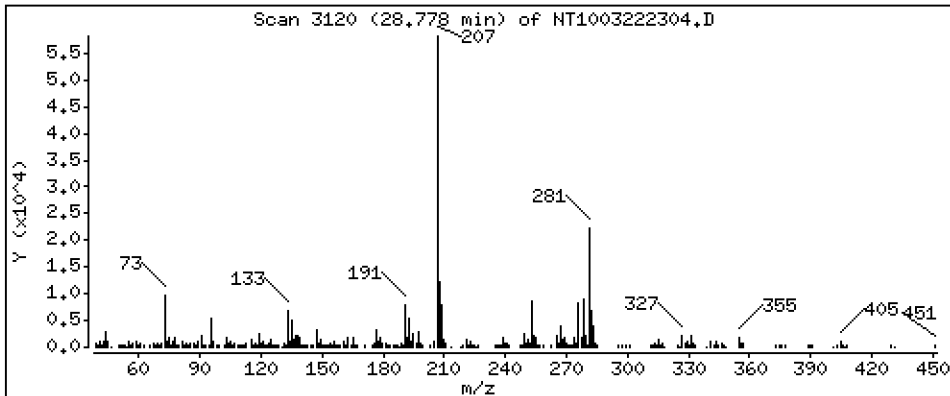
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 0,2068 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

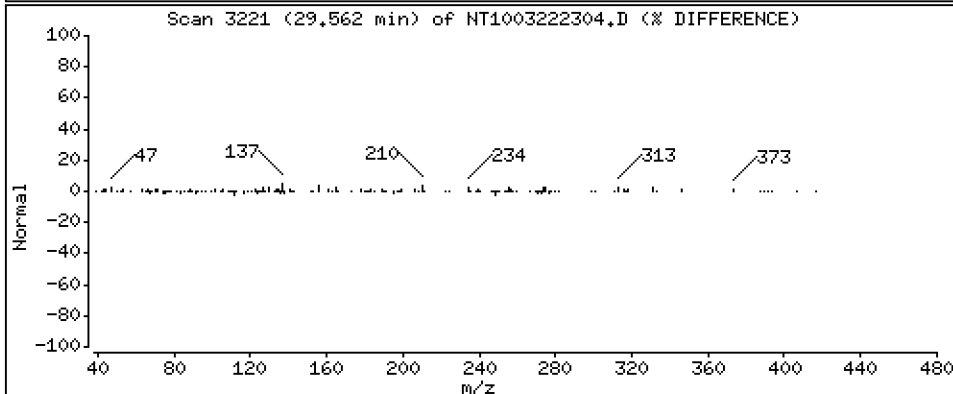
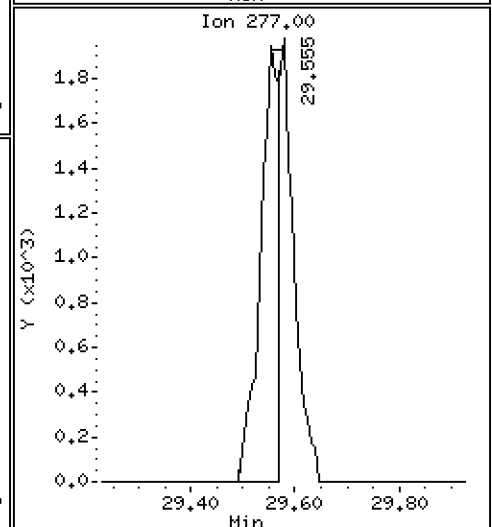
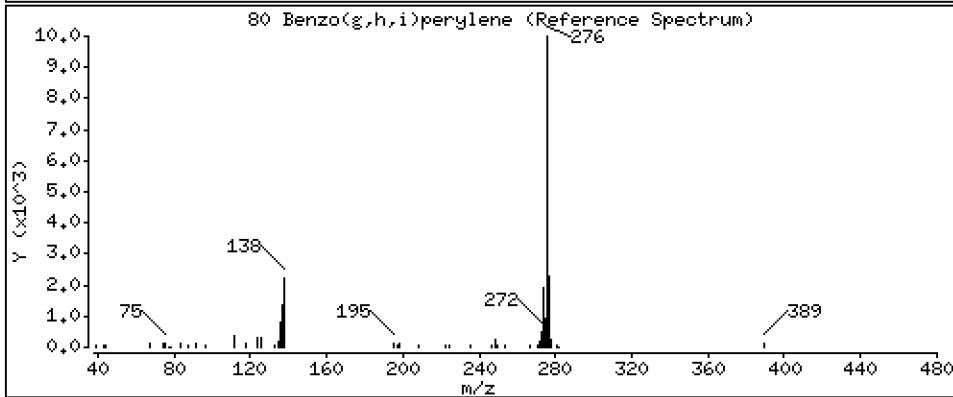
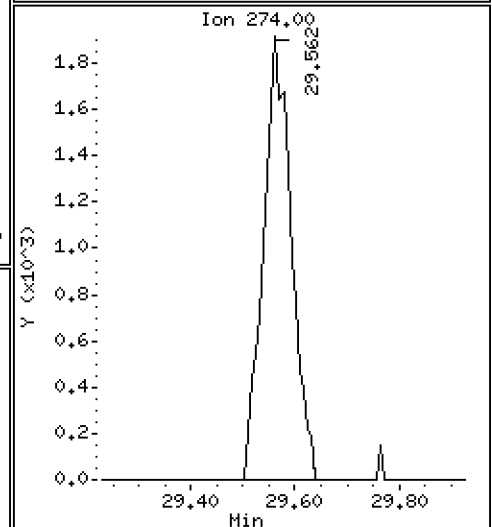
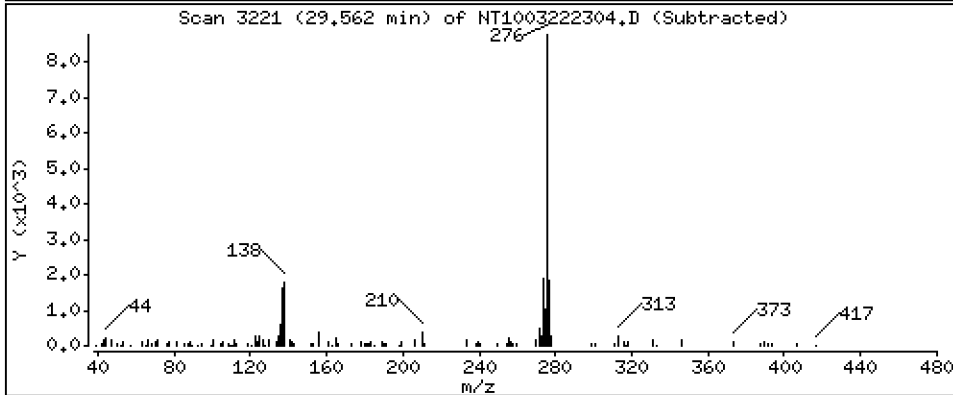
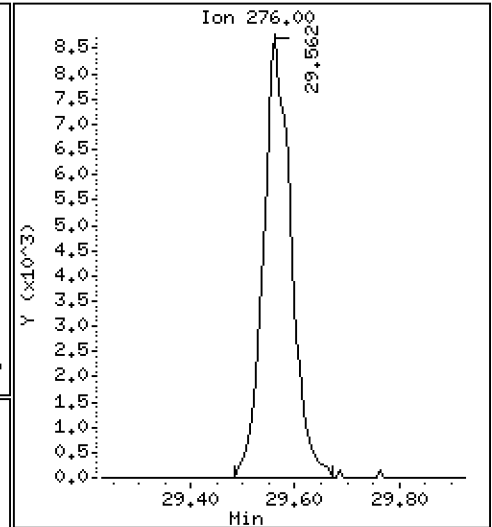
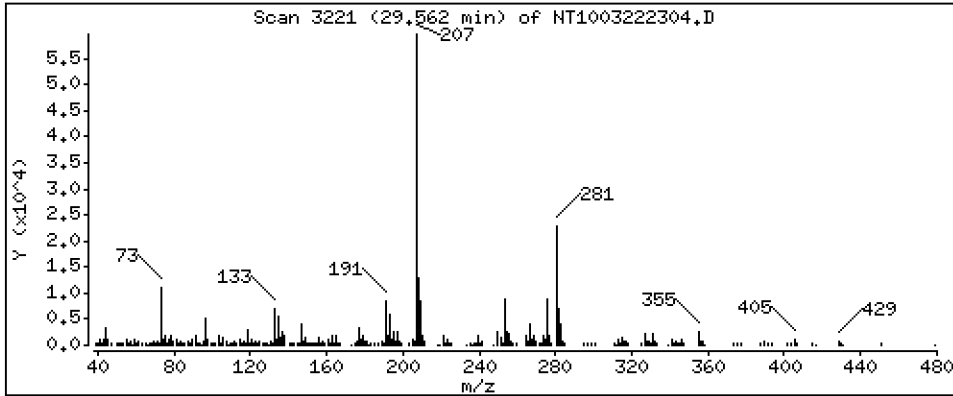
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 0,2049 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

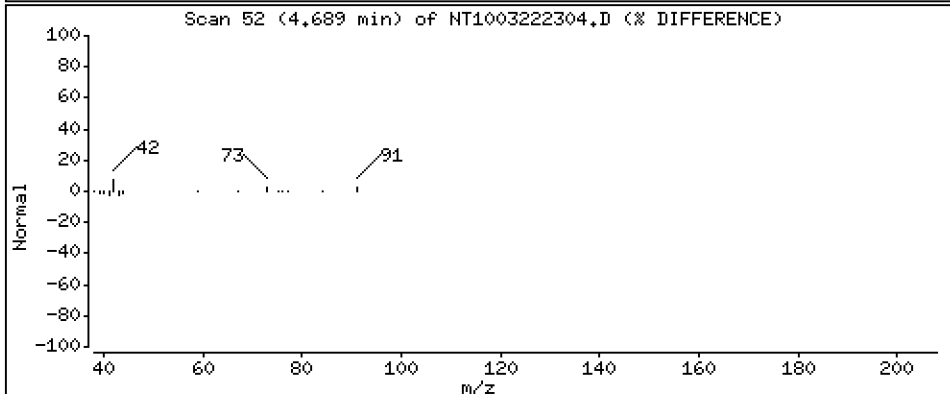
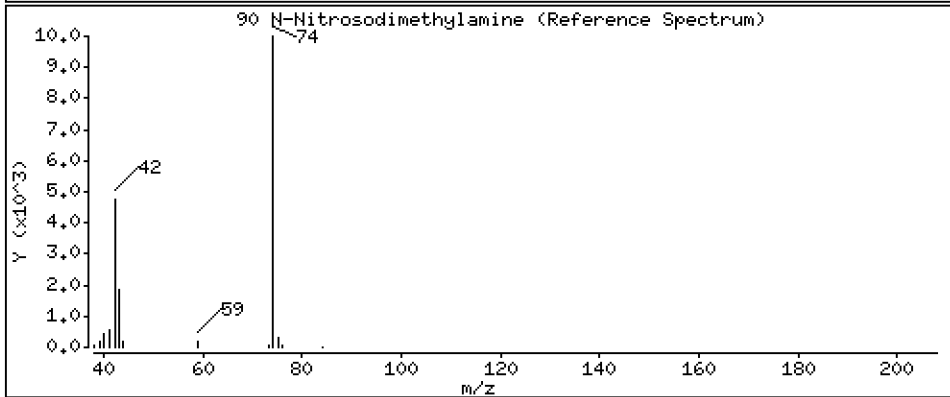
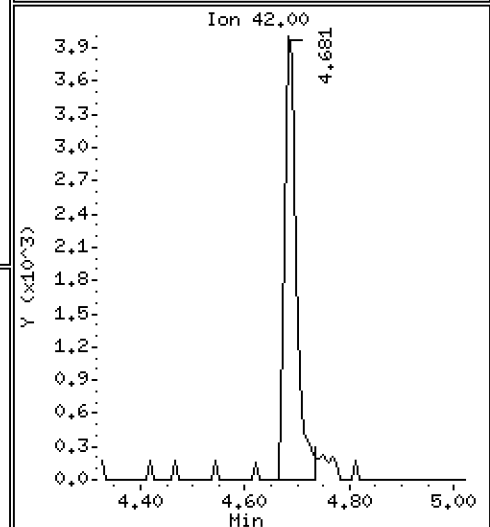
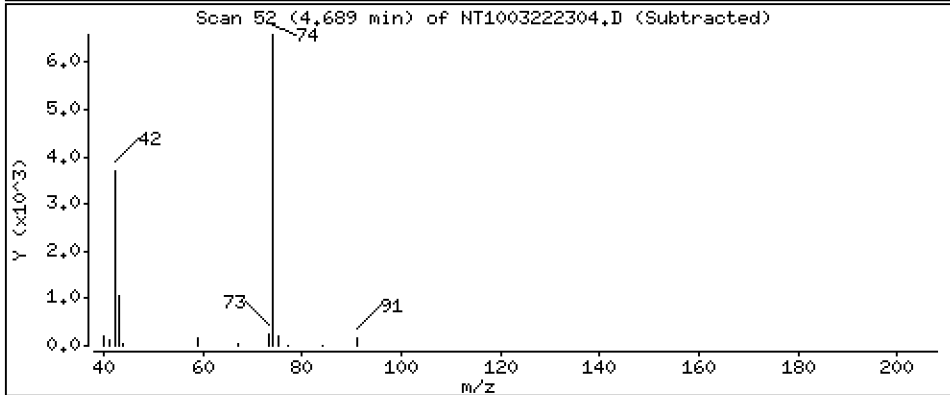
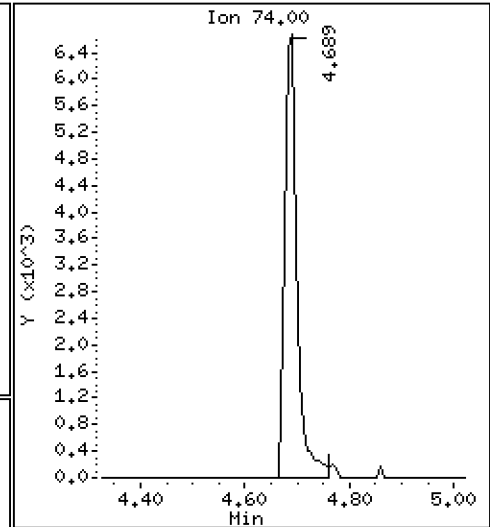
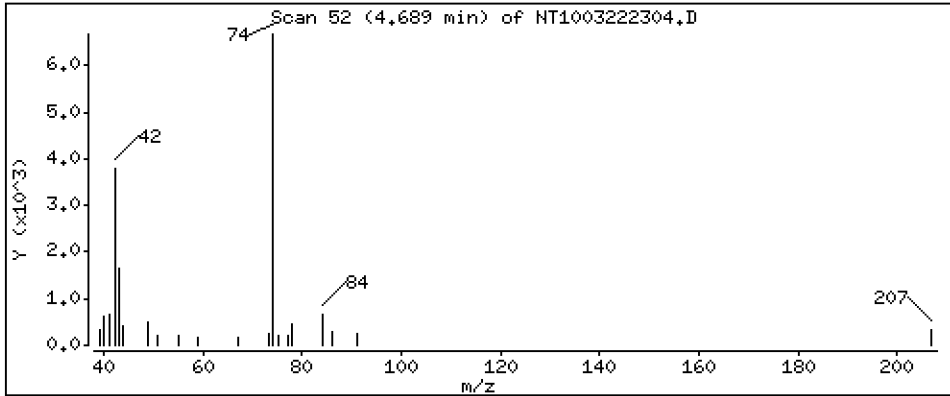
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

90 N-Nitrosodimethylamine

Concentration: 0.3834 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

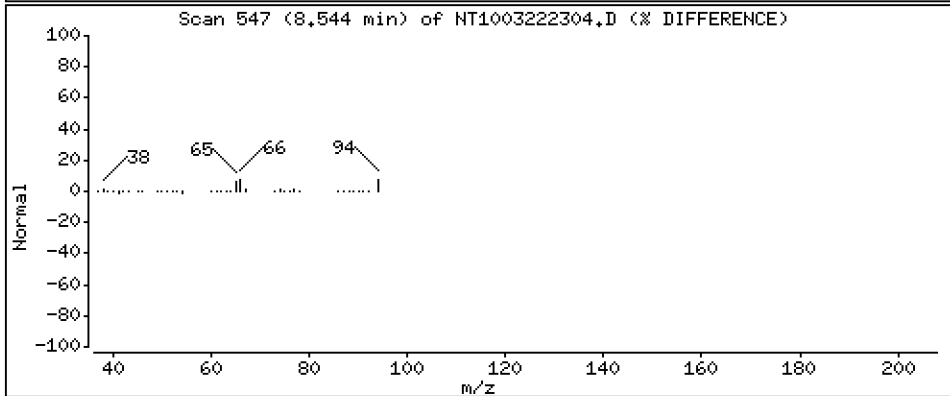
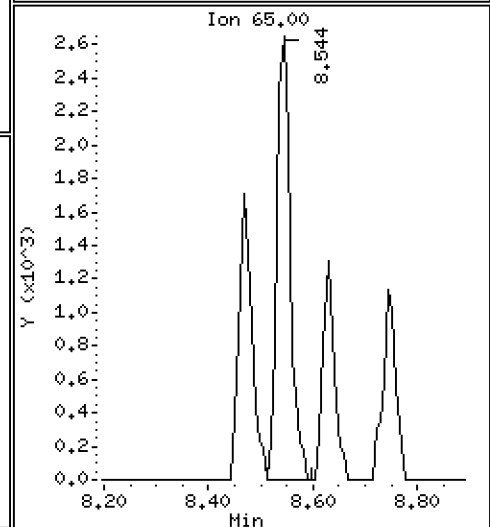
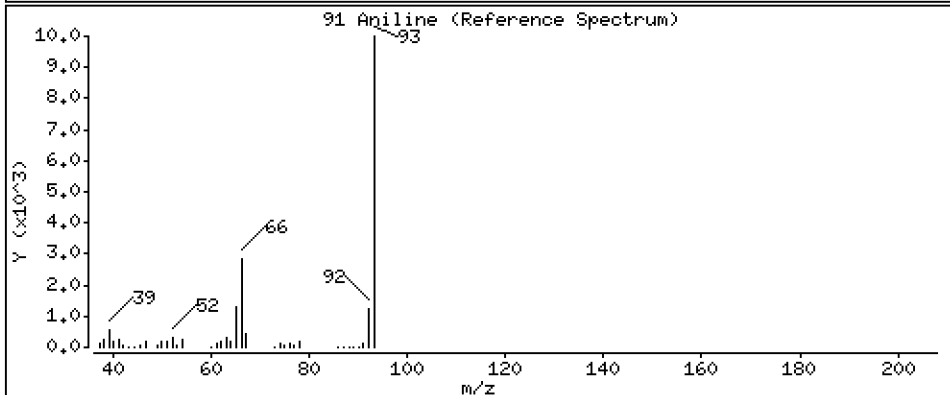
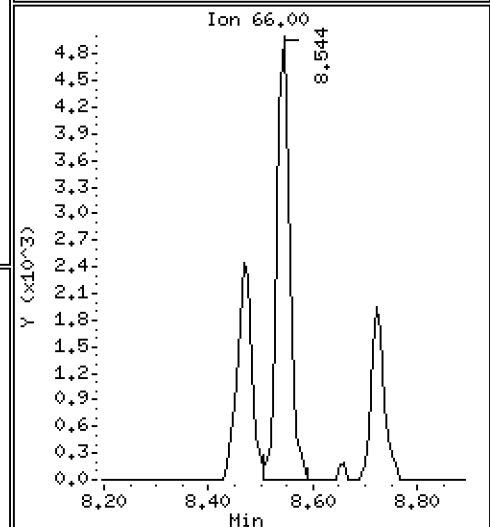
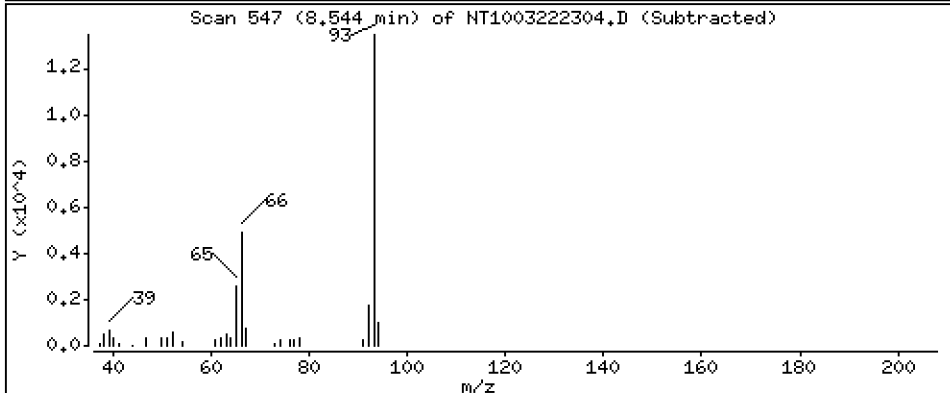
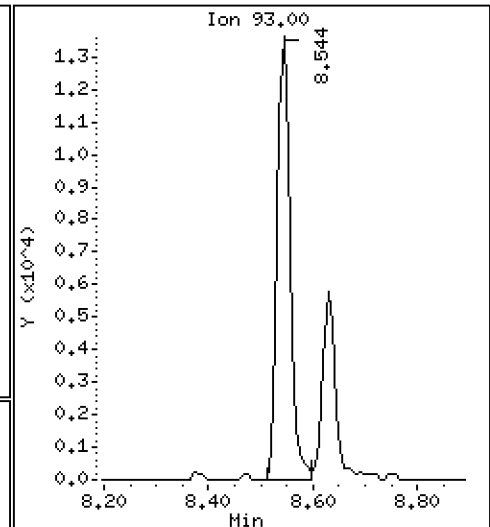
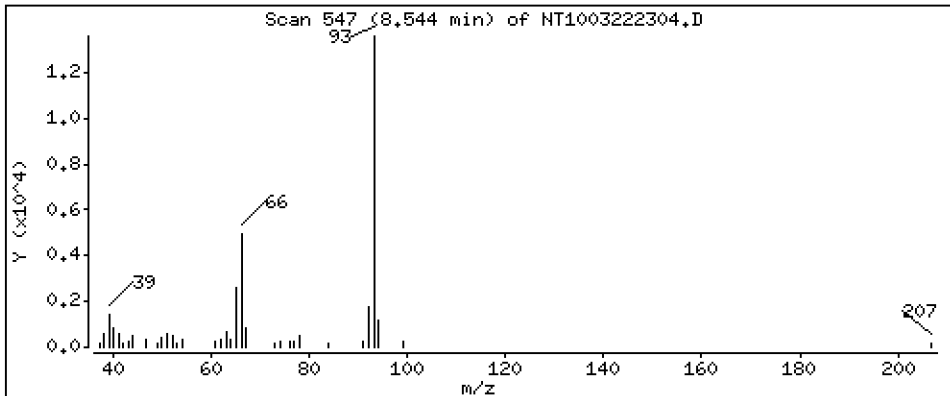
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

91 Aniline

Concentration: 0,3715 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

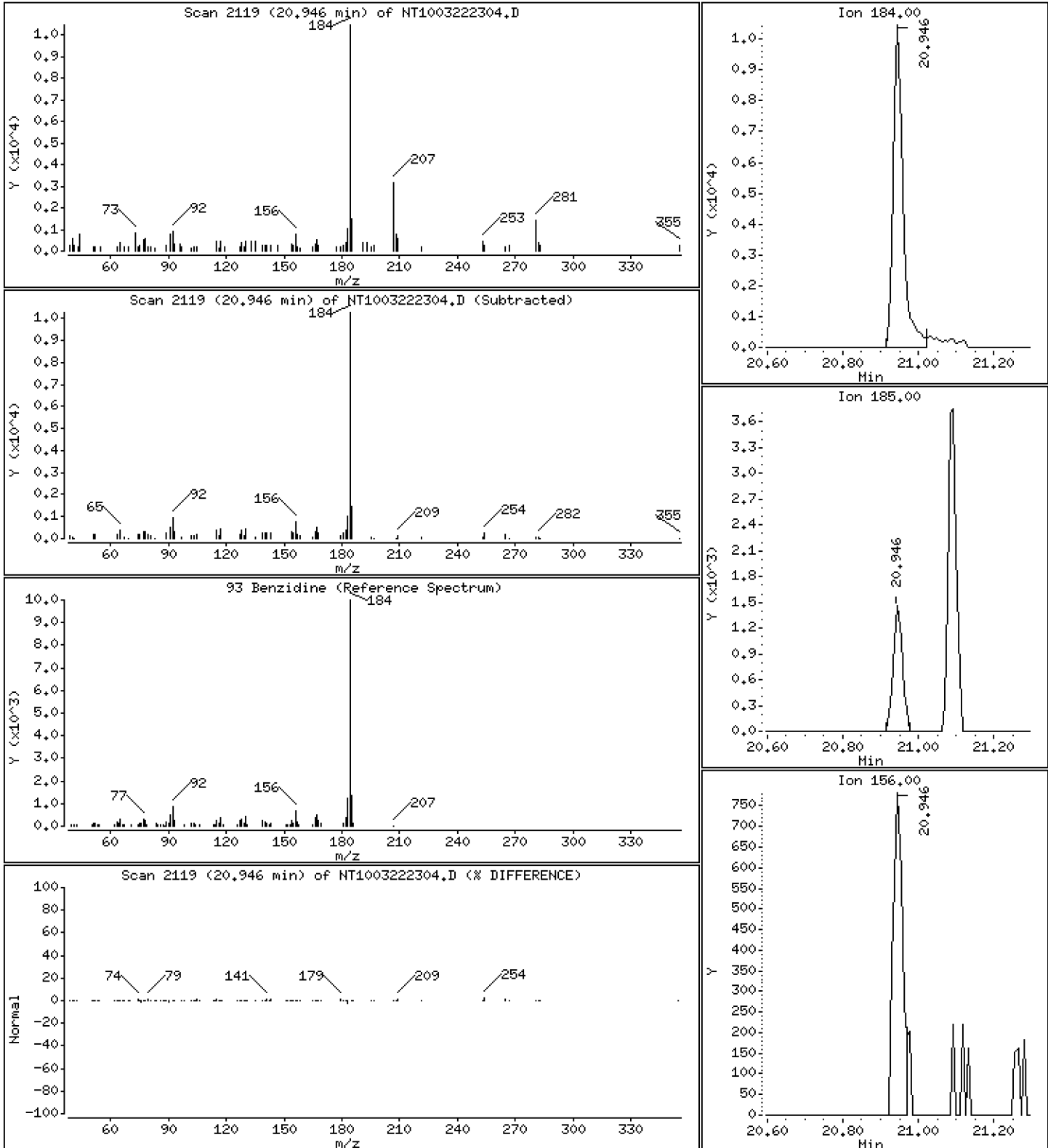
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

93 Benzidine

Concentration: 0,2508 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

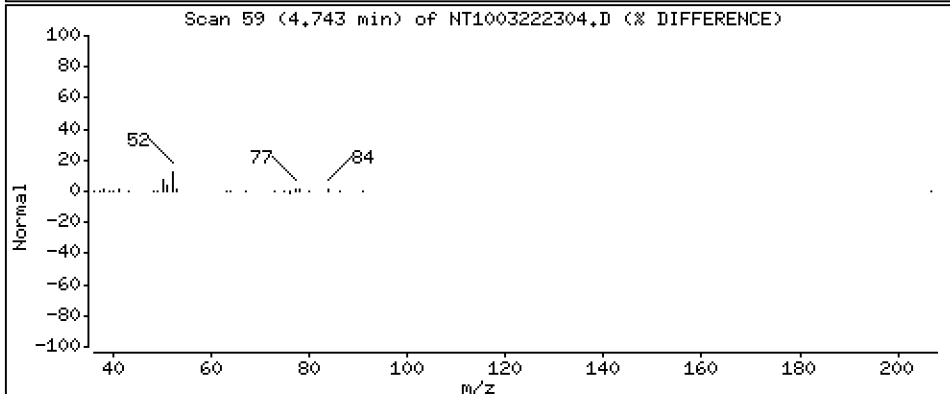
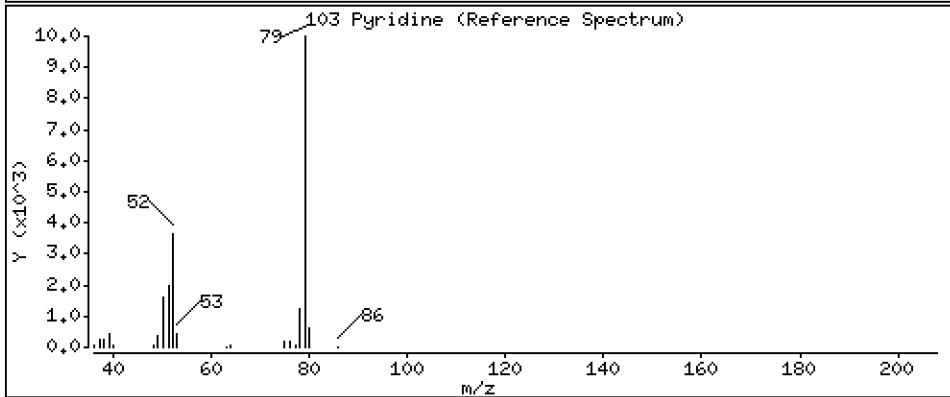
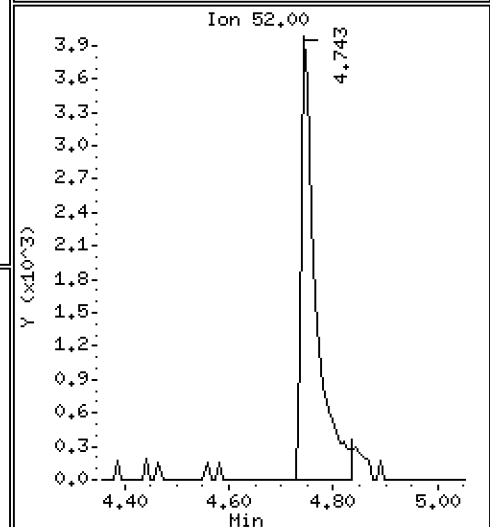
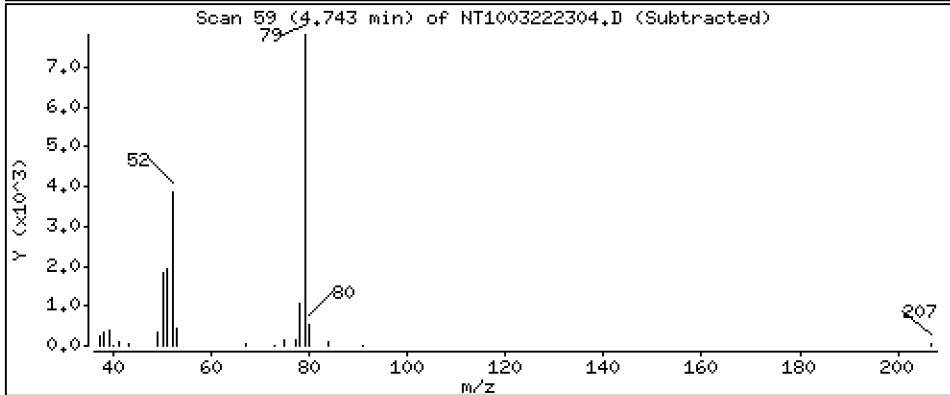
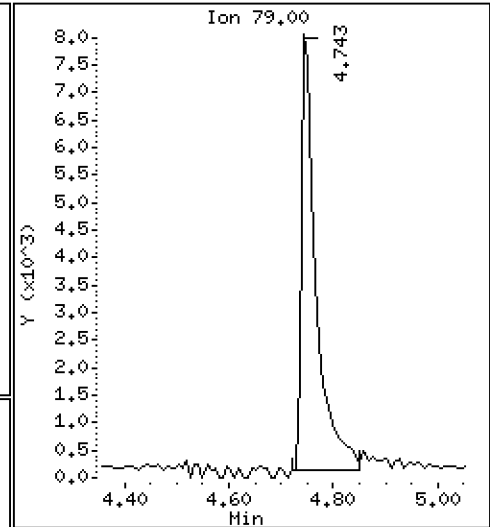
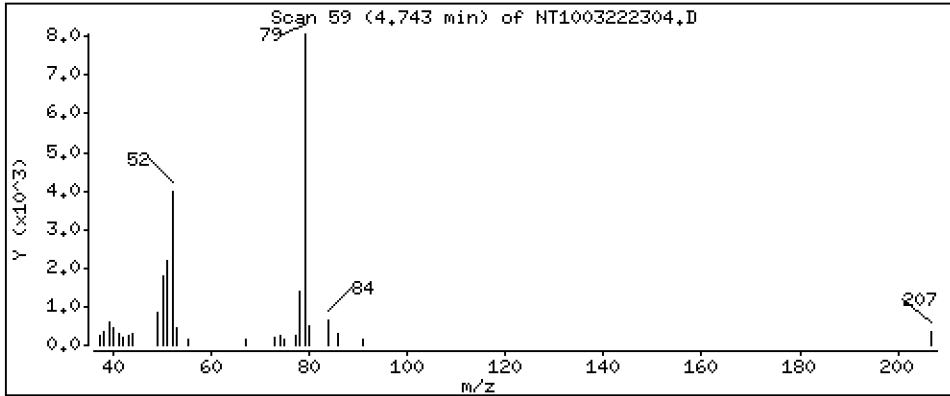
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

103 Pyridine

Concentration: 0,3765 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

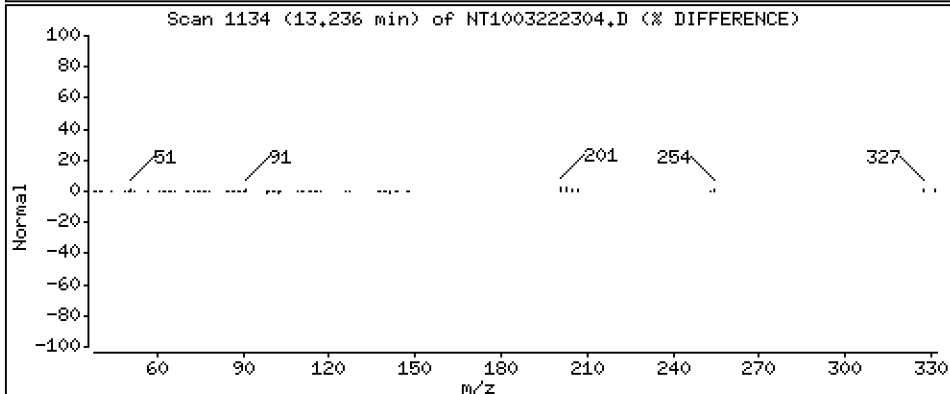
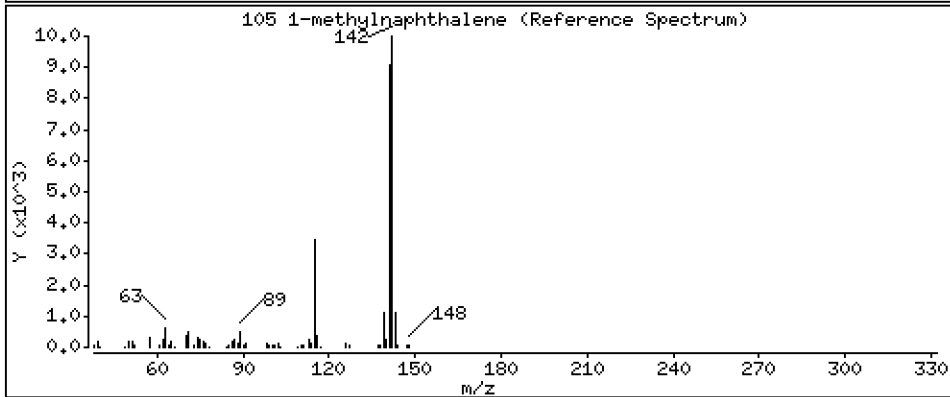
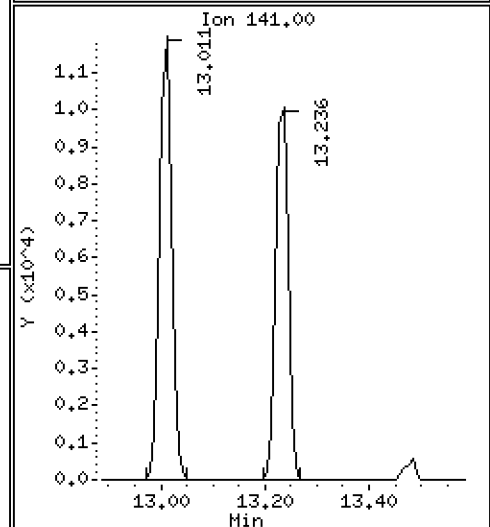
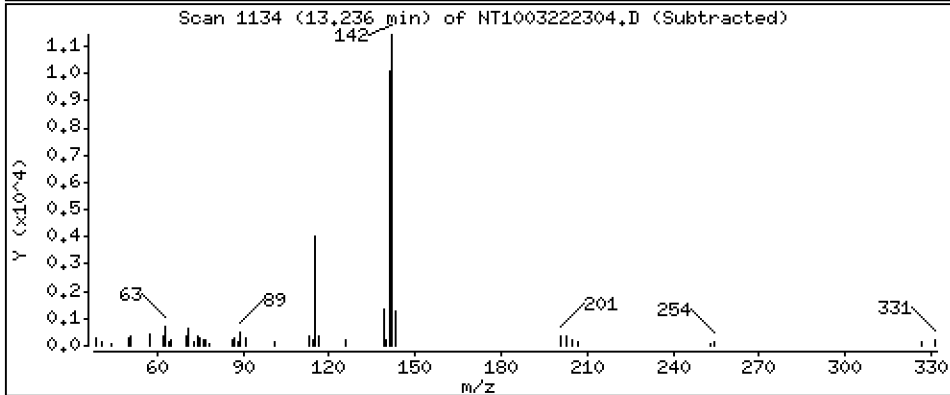
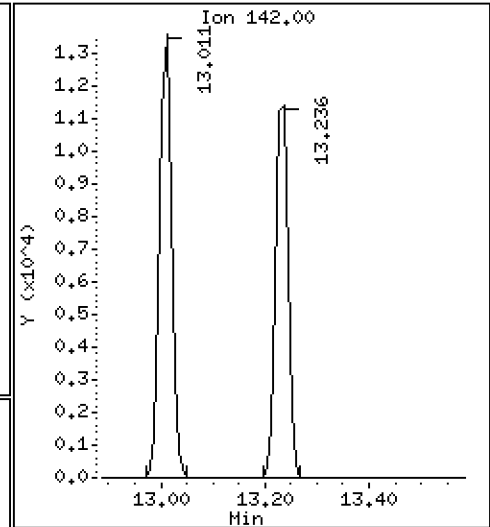
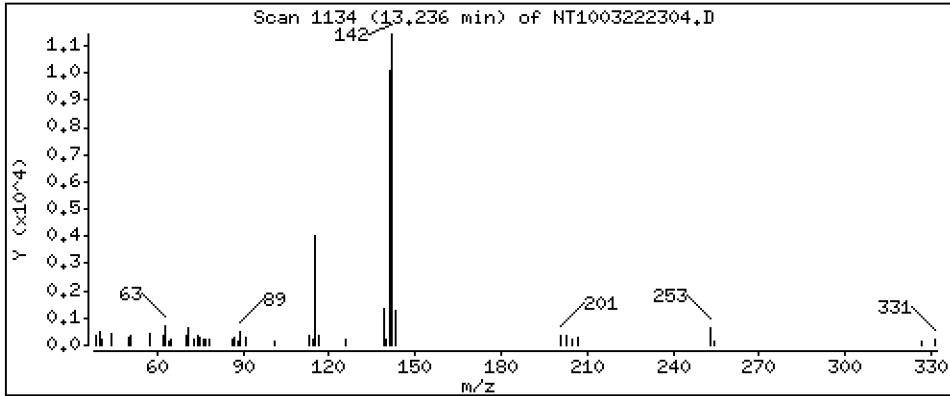
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 0,2057 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

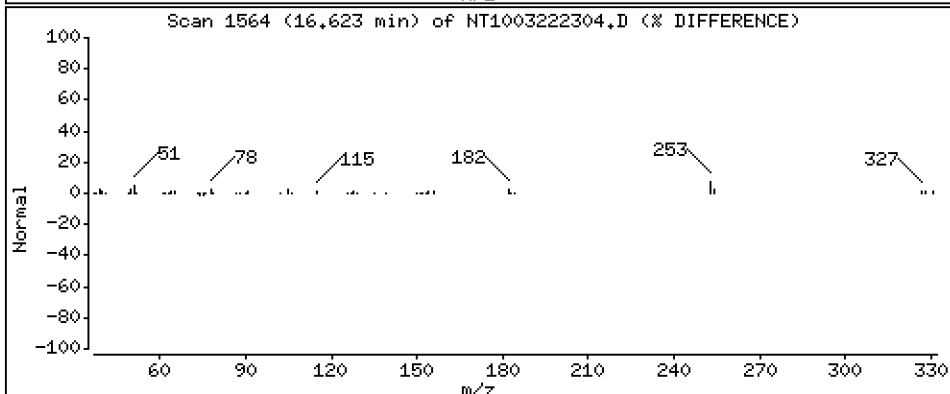
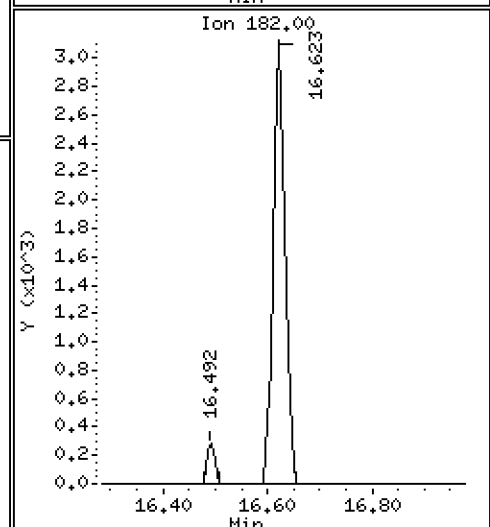
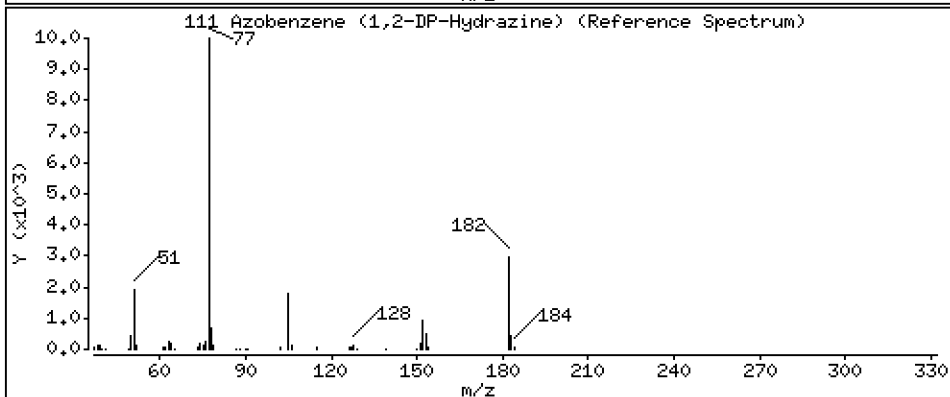
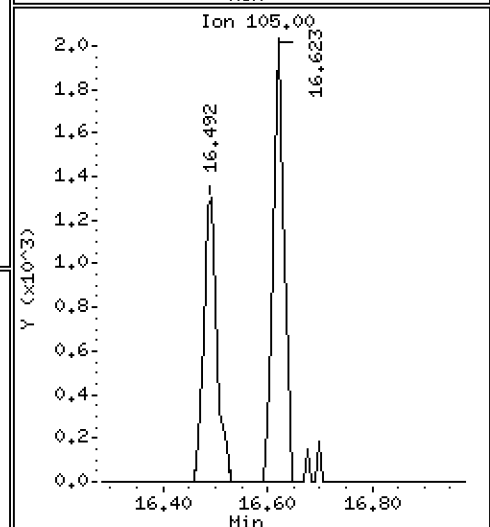
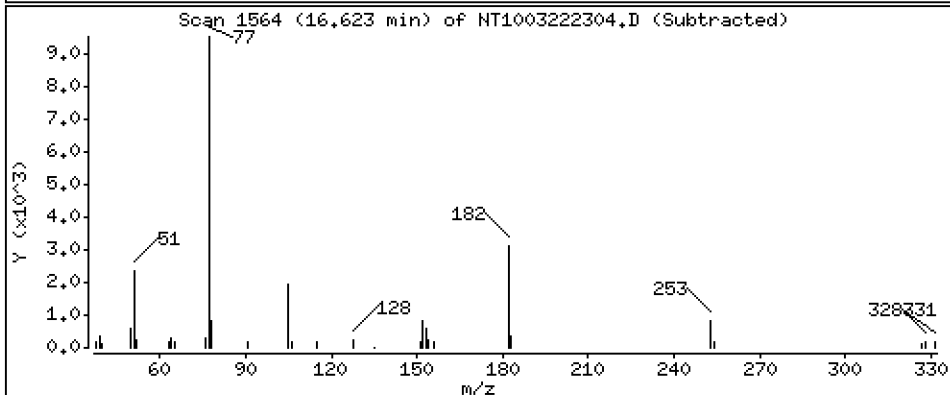
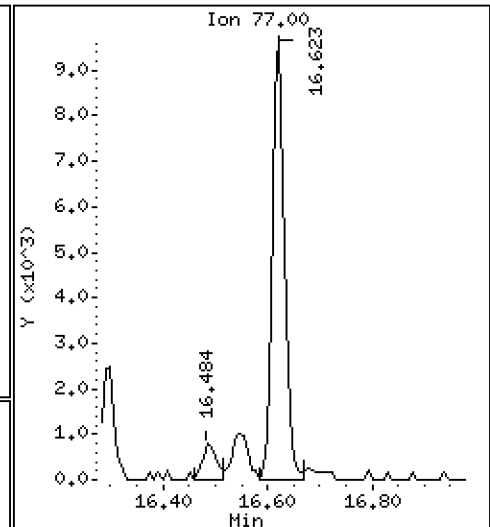
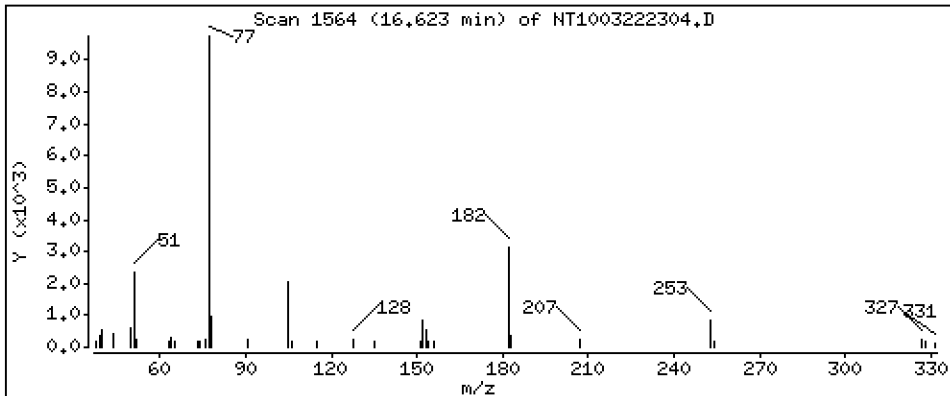
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 0,1573 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

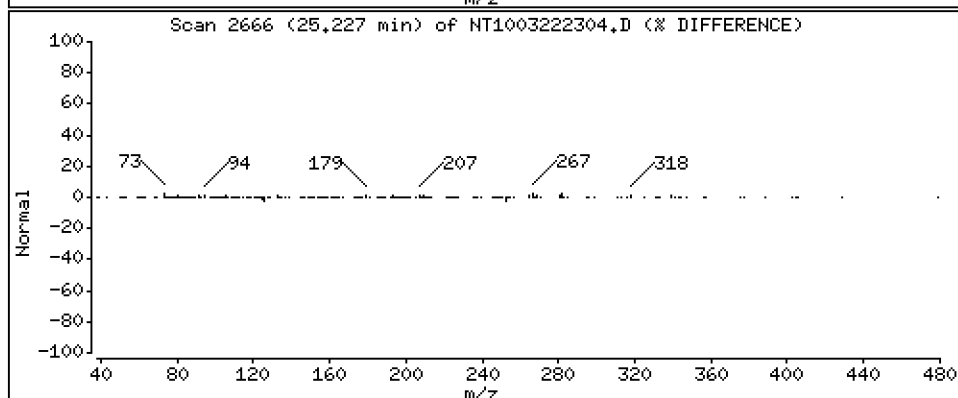
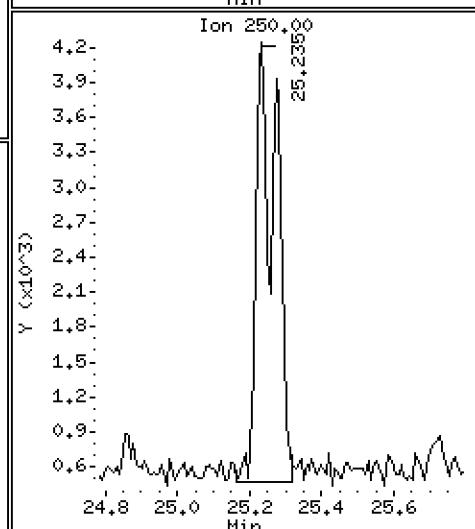
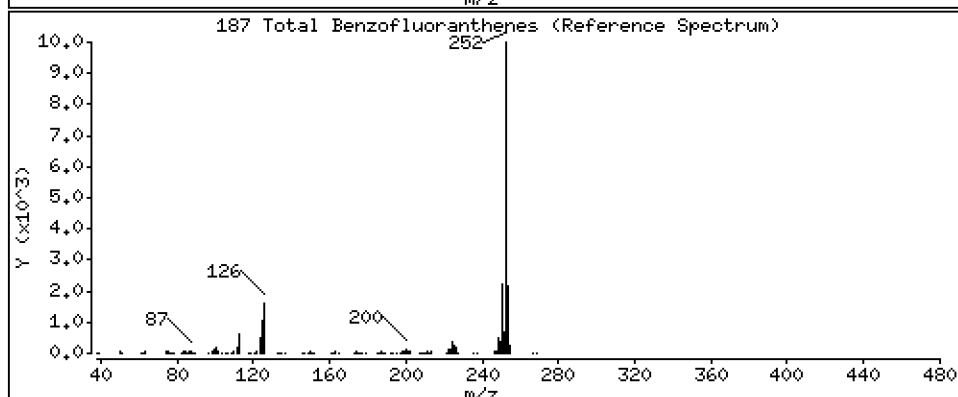
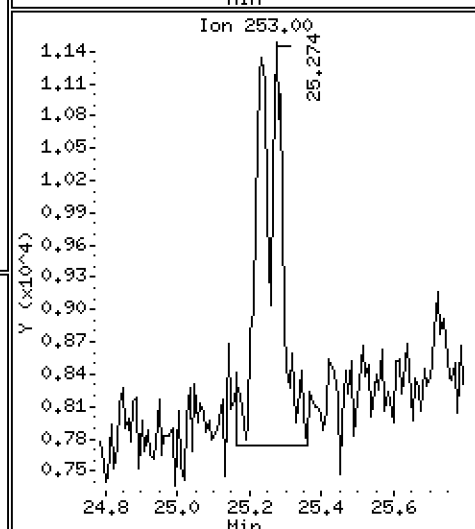
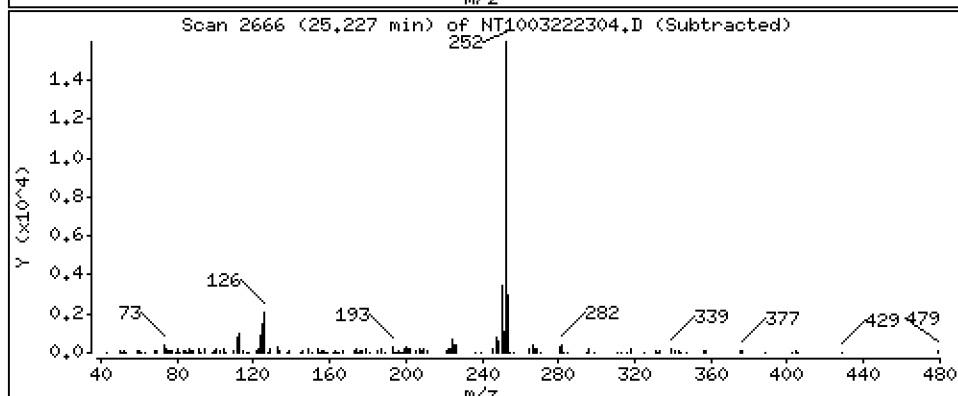
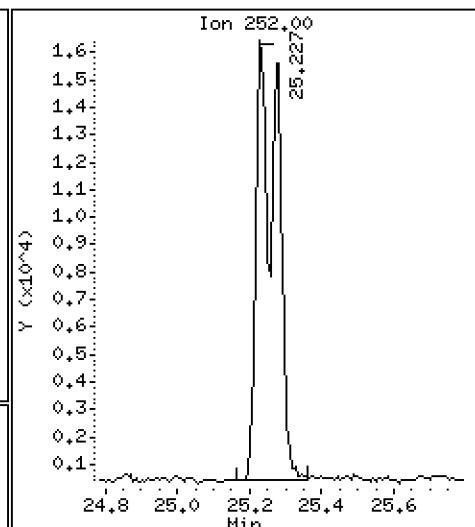
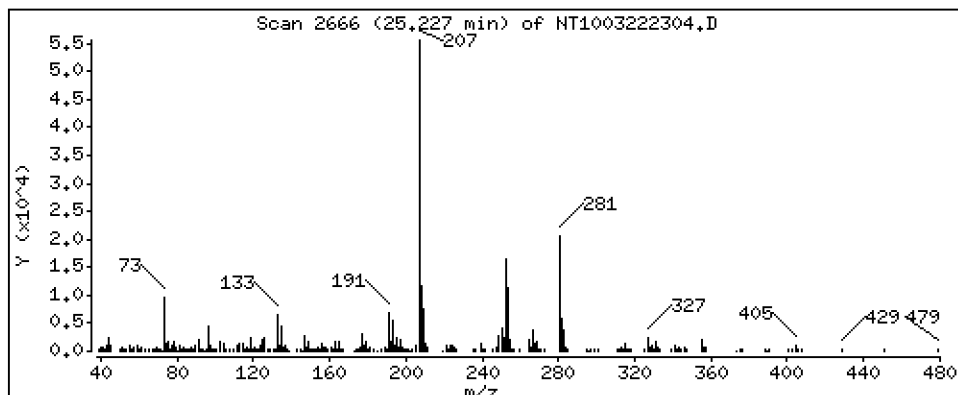
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 0,4084 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

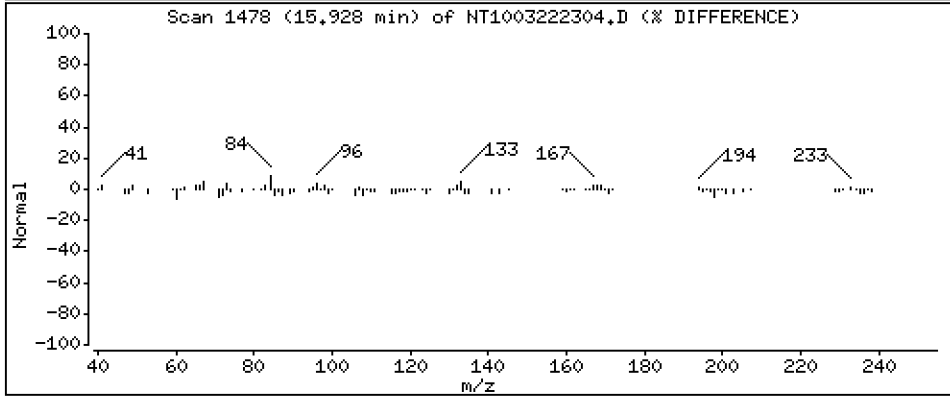
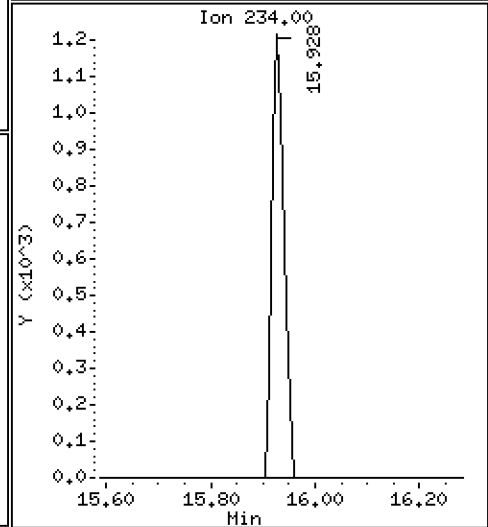
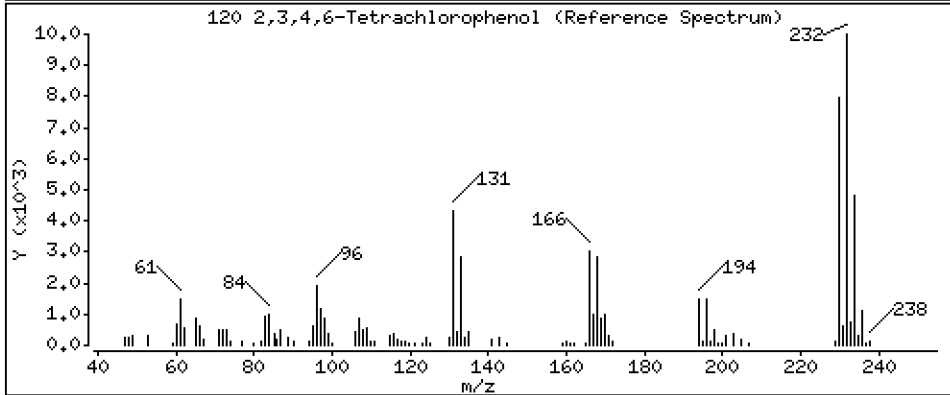
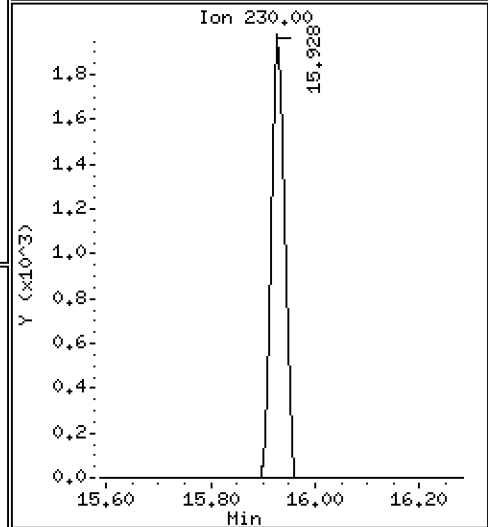
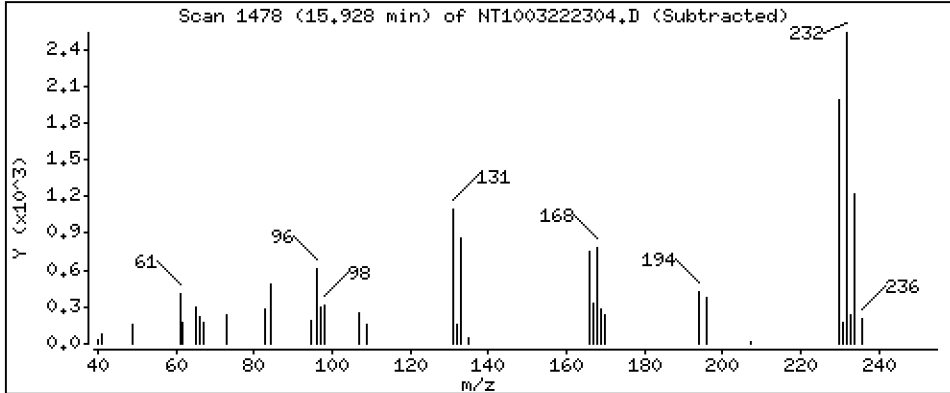
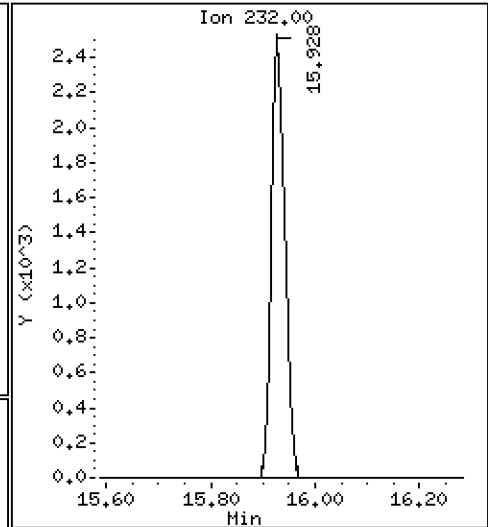
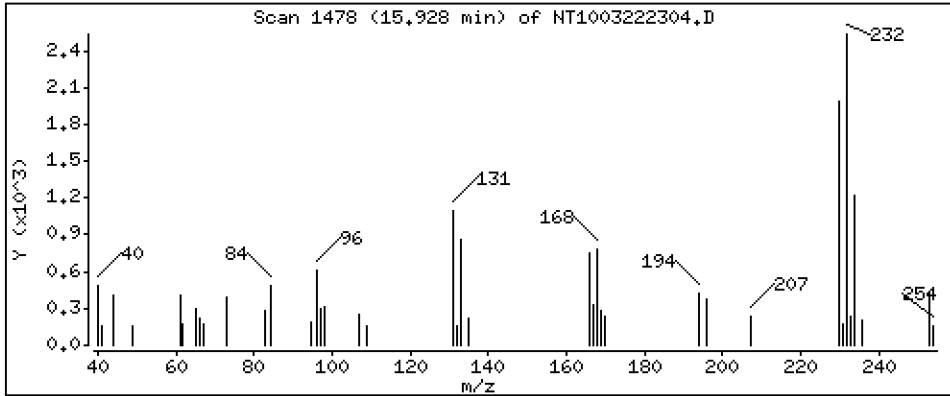
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

120 2,3,4,6-Tetrachlorophenol

Concentration: 0,1565 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230322.b\NT1003222304.D
 Lab Smp Id: SLC0397-LCV1
 Inj Date : 22-MAR-2023 18:59
 Operator : VTS
 Smp Info : SLC0397-LCV1
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt10.i\20230322.b\ABN.m
 Meth Date : 25-Mar-2023 07:55 van
 Cal Date : 16-MAR-2023 00:22
 Als bottle: 4
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: VANS-201906

Inst ID: nt10.i

Quant Type: ISTD
 Cal File: NT10031508.D

Compound Sublist: ICAL.sub

| Compounds | QUANT | SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|---------------------------------|-------|-----|--------|--------|---------|----------|----------------|------------|
| | | | | | | | ON-COLUMN | FINAL |
| | MASS | | | | | | (ug/mL) | (ug/mL) |
| \$ 1 2-Fluorophenol | 112 | | 6.859 | 6.851 | (0.755) | 12966 | 0.30189 | 0.3019 |
| \$ 2 Phenol-d5 | 99 | | 8.451 | 8.450 | (0.930) | 15517 | 0.27540 | 0.2754 |
| 3 Phenol | 94 | | 8.466 | 8.473 | (0.932) | 10955 | 0.18711 | 0.1871 |
| \$ 5 2-Chlorophenol-d4 | 132 | | 8.721 | 8.721 | (0.960) | 14282 | 0.29684 | 0.2968 |
| 4 Bis(2-Chloroethyl)ether | 93 | | 8.628 | 8.628 | (0.950) | 8771 | 0.20198 | 0.2020 |
| 6 2-Chlorophenol | 128 | | 8.752 | 8.752 | (0.963) | 9410 | 0.18779 | 0.1878 |
| 7 1,3-Dichlorobenzene | 146 | | 9.015 | 9.022 | (0.992) | 11613 | 0.21921 | 0.2192 |
| * 8 1,4-Dichlorobenzene-d4 | 152 | | 9.085 | 9.084 | (1.000) | 142022 | 4.00000 | |
| 9 1,4-Dichlorobenzene | 146 | | 9.116 | 9.115 | (1.003) | 10855 | 0.21211 | 0.2121 |
| \$ 10 1,2-Dichlorobenzene-d4 | 152 | | 9.442 | 9.449 | (1.039) | 7265 | 0.21026 | 0.2103 |
| 12 1,2-Dichlorobenzene | 146 | | 9.473 | 9.472 | (1.043) | 10817 | 0.21477 | 0.2148 |
| 11 Benzyl alcohol | 108 | | 9.364 | 9.356 | (1.031) | 4762 | 0.17328 | 0.1733 |
| 14 2,2'-oxybis(1-Chloropropane) | 121 | | 9.651 | 9.659 | (1.062) | 3016 | 0.20391 | 0.2039 (M) |
| 13 2-Methylphenol | 108 | | 9.589 | 9.589 | (1.056) | 7796 | 0.18266 | 0.1827 |
| 17 Hexachloroethane | 117 | | 10.063 | 10.062 | (1.108) | 4102 | 0.19536 | 0.1954 |
| 16 N-Nitroso-di-n-propylamine | 70 | | 9.915 | 9.923 | (1.091) | 5841 | 0.17332 | 0.1733 |
| 15 4-Methylphenol | 108 | | 9.853 | 9.853 | (1.085) | 7958 | 0.17696 | 0.1770 |
| \$ 18 Nitrobenzene-d5 | 82 | | 10.179 | 10.187 | (0.880) | 8828 | 0.17323 | 0.1732 |
| 19 Nitrobenzene | 77 | | 10.218 | 10.218 | (0.883) | 9268 | 0.18532 | 0.1853 |
| 20 Isophorone | 82 | | 10.668 | 10.668 | (0.922) | 10014 | 0.15653 | 0.1565 |
| 21 2-Nitrophenol | 139 | | 10.850 | 10.850 | (0.938) | 5353 | 0.22012 | 0.2201 (M) |
| 22 2,4-Dimethylphenol | 107 | | 10.901 | 10.901 | (0.942) | 16512 | 0.35947 | 0.3595 |
| 23 Bis(2-Chloroethoxy)methane | 93 | | 11.096 | 11.096 | (0.959) | 8305 | 0.19434 | 0.1943 |
| 24 Benzoic acid | 105 | | 10.994 | 11.104 | (0.950) | 7775 | 0.30470 | 0.3047 |
| 25 2,4-Dichlorophenol | 162 | | 11.300 | 11.300 | (0.976) | 13883 | 0.37768 | 0.3777 |
| 26 1,2,4-Trichlorobenzene | 180 | | 11.487 | 11.487 | (0.993) | 9517 | 0.22056 | 0.2206 |
| * 27 Naphthalene-d8 | 136 | | 11.572 | 11.572 | (1.000) | 504872 | 4.00000 | |
| 28 Naphthalene | 128 | | 11.611 | 11.611 | (1.003) | 28117 | 0.21022 | 0.2102 |
| 29 4-Chloroaniline | 127 | | 11.742 | 11.750 | (1.015) | 18626 | 0.35697 | 0.3570 |
| 30 Hexachlorobutadiene | 225 | | 11.974 | 11.974 | (1.035) | 6037 | 0.23878 | 0.2388 |
| 31 4-Chloro-3-methylphenol | 107 | | 12.709 | 12.709 | (1.098) | 13431 | 0.33752 | 0.3375 |
| 32 2-Methylnaphthalene | 142 | | 13.011 | 13.011 | (1.124) | 20613 | 0.21356 | 0.2136 |
| 33 Hexachlorocyclopentadiene | 237 | | 13.475 | 13.475 | (0.887) | 6066 | 0.23759 | 0.2376 |

| Compounds | QUANT SIG | | | | | CONCENTRATIONS | |
|-----------------------------------|-----------|--------|--------|---------|----------|----------------------|------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | ON-COLUMN (ug/mL) | FINAL (ug/mL) |
| 34 2,4,6-Trichlorophenol | 196 | 13.630 | 13.637 | (0.897) | 9955 | 0.36511 | 0.3651 |
| 35 2,4,5-Trichlorophenol | 196 | 13.707 | 13.707 | (0.902) | 10092 | 0.33311 | 0.3331 |
| § 36 2-Fluorobiphenyl | 172 | 13.793 | 13.800 | (0.908) | 22479 | 0.20599 | 0.2060 |
| 37 2-Chloronaphthalene | 162 | 14.001 | 14.009 | (0.922) | 17503 | 0.19809 | 0.1981 |
| 38 2-Nitroaniline | 65 | 14.265 | 14.272 | (0.939) | 6527 | 0.26297 | 0.2630 |
| 39 Dimethylphthalate | 163 | 14.698 | 14.706 | (0.967) | 18264 | 0.20380 | 0.2038 |
| 40 Acenaphthylene | 152 | 14.876 | 14.884 | (0.979) | 27295 | 0.19824 | 0.1982 |
| 41 2,6-Dinitrotoluene | 165 | 14.837 | 14.845 | (0.977) | 6279 | 0.32433 | 0.3243 |
| * 42 Acenaphthene-d10 | 164 | 15.193 | 15.193 | (1.000) | 275869 | 4.00000 | |
| 43 3-Nitroaniline | 138 | 15.124 | 15.131 | (0.995) | 5745 | 0.26291 | 0.2629 |
| 44 Acenaphthene | 153 | 15.255 | 15.263 | (1.004) | 16836 | 0.19793 | 0.1979 |
| 45 2,4-Dinitrophenol | 184 | 15.340 | 15.340 | (1.010) | 1817 | 0.15549 | 0.1555 (M) |
| 46 Dibenzofuran | 168 | 15.587 | 15.595 | (1.026) | 25515 | 0.20341 | 0.2034 |
| 47 4-Nitrophenol | 109 | 15.456 | 15.456 | (1.017) | 2179 | 0.15854 | 0.1585 |
| 48 2,4-Dinitrotoluene | 165 | 15.649 | 15.657 | (1.030) | 7887 | 0.26933 | 0.2693 |
| 50 Diethylphthalate | 149 | 16.160 | 16.175 | (1.064) | 20158 | 0.22925 | 0.2293 |
| 49 Fluorene | 166 | 16.299 | 16.306 | (1.073) | 20785 | 0.21062 | 0.2106 |
| 51 4-Chlorophenyl-phenylether | 204 | 16.299 | 16.298 | (1.073) | 10392 | 0.22145 | 0.2215 |
| 52 4-Nitroaniline | 138 | 16.399 | 16.406 | (1.079) | 4836 | 0.24558 | 0.2456 |
| 53 4,6-Dinitro-2-methylphenol | 198 | 16.491 | 16.499 | (0.904) | 5638 | 0.37315 | 0.3731 |
| 54 N-Nitrosodiphenylamine | 169 | 16.545 | 16.553 | (0.907) | 12819 | 0.19182 | 0.1918 |
| § 55 2,4,6-Tribromophenol | 330 | 16.838 | 16.846 | (1.108) | 3326 | 0.25625 | 0.2563 |
| 56 4-Bromophenyl-phenylether | 248 | 17.309 | 17.308 | (0.949) | 5746 | 0.20552 | 0.2055 |
| 57 Hexachlorobenzene | 284 | 17.618 | 17.626 | (0.966) | 6920 | 0.23608 | 0.2361 |
| 58 Pentachlorophenol | 266 | 17.982 | 17.990 | (0.986) | 3831 | 0.22090 | 0.2209 |
| * 59 Phenanthrene-d10 | 188 | 18.245 | 18.253 | (1.000) | 499862 | 4.00000 | |
| 60 Phenanthrene | 178 | 18.292 | 18.299 | (1.003) | 28189 | 0.20681 | 0.2068 |
| 61 Anthracene | 178 | 18.384 | 18.392 | (1.008) | 23797 | 0.18201 | 0.1820 |
| 62 Carbazole | 167 | 18.725 | 18.725 | (1.026) | 21462 | 0.18318 | 0.1832 |
| 63 Di-n-butylphthalate | 149 | 19.537 | 19.545 | (1.071) | 32529 | 0.20650 | 0.2065 |
| 64 Fluoranthene | 202 | 20.698 | 20.705 | (0.887) | 31900 | 0.18328 | 0.1833 |
| 65 Pyrene | 202 | 21.123 | 21.131 | (0.905) | 32670 | 0.18298 | 0.1830 |
| § 66 Terphenyl-d14 | 244 | 21.425 | 21.425 | (0.918) | 27049 | 0.20173 | 0.2017 |
| 67 Butylbenzylphthalate | 149 | 22.370 | 22.369 | (0.958) | 11514 | 0.18364 | 0.1836 |
| 68 Benzo(a)anthracene | 228 | 23.314 | 23.314 | (0.999) | 30657 | 0.20051 | 0.2005 |
| * 69 Chrysene-d12 | 240 | 23.345 | 23.345 | (1.000) | 433161 | 4.00000 | |
| 70 3,3'-Dichlorobenzidine | 252 | 23.276 | 23.275 | (0.997) | 28893 | 0.58997 | 0.5900 |
| 71 Chrysene | 228 | 23.384 | 23.392 | (1.002) | 30672 | 0.20534 | 0.2053 |
| 72 bis(2-Ethylhexyl)phthalate | 149 | 23.407 | 23.407 | (0.959) | 14932 | 0.16530 | 0.1653 |
| * 134 Di-n-octylphthalate-d4 | 153 | 24.414 | 24.413 | (1.000) | 617649 | 4.00000 | |
| 73 Di-n-octylphthalate | 149 | 24.421 | 24.429 | (1.000) | 33313 | 0.20610 | 0.2061 |
| 74 Benzo(b)fluoranthene | 252 | 25.227 | 25.242 | (0.969) | 34685 | 0.21619 | 0.2162 |
| 75 Benzo(k)fluoranthene | 252 | 25.273 | 25.288 | (0.971) | 31535 | 0.19357 | 0.1936 |
| 76 Benzo(a)pyrene | 252 | 25.900 | 25.908 | (0.995) | 29387 | 0.20487 | 0.2049 |
| * 77 Perylene-d12 | 264 | 26.024 | 26.024 | (1.000) | 494952 | 4.00000 | |
| 78 Indeno(1,2,3-cd)pyrene | 276 | 28.762 | 28.769 | (1.105) | 36004 | 0.19729 | 0.1973 |
| 79 Dibenzo(a,h)anthracene | 278 | 28.777 | 28.800 | (1.106) | 31325 | 0.20675 | 0.2068 |
| 80 Benzo(g,h,i)perylene | 276 | 29.562 | 29.577 | (1.136) | 32367 | 0.20494 | 0.2049 |
| 90 N-Nitrosodimethylamine | 74 | 4.689 | 4.673 | (0.516) | 10506 | 0.38342 | 0.3834 |
| 91 Aniline | 93 | 8.543 | 8.543 | (0.940) | 22290 | 0.37155 | 0.3715 |
| 93 Benzidine | 184 | 20.945 | 20.945 | (0.897) | 17929 | 0.25078 | 0.2508 |
| 103 Pyridine | 79 | 4.743 | 4.704 | (0.522) | 15845 | 0.37653 | 0.3765 |
| 105 1-methylnaphthalene | 142 | 13.235 | 13.235 | (1.144) | 18195 | 0.20575 | 0.2057 |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77 | 16.622 | 16.630 | (1.094) | 15446 | 0.15726 | 0.1573 |

| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|-------------------------------|-----------|--------|--------|---------|----------|----------------------|------------------|
| | | | | | | ON-COLUMN (ug/mL) | FINAL (ug/mL) |
| 187 Total Benzofluoranthenes | 252 | 25.227 | 25.288 | (0.969) | 63258 | 0.40836 | 0.4084 |
| 120 2,3,4,6-Tetrachlorophenol | 232 | 15.928 | 15.935 | (1.048) | 4346 | 0.15649 | 0.1565 |

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 22-MAR-2023
 Lab File ID: NT1003222304.D Calibration Time: 17:42
 Lab Smp Id: SLC0397-LCV1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt10.i\20230322.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|--------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 122478 | 61239 | 244956 | 142022 | 15.96 |
| 27 Naphthalene-d8 | 459261 | 229631 | 918522 | 504872 | 9.93 |
| 42 Acenaphthene-d10 | 264106 | 132053 | 528212 | 275869 | 4.45 |
| 59 Phenanthrene-d10 | 503255 | 251628 | 1006510 | 499862 | -0.67 |
| 69 Chrysene-d12 | 437735 | 218868 | 875470 | 433161 | -1.04 |
| 134 Di-n-octylphthala | 700191 | 350096 | 1400382 | 617649 | -11.79 |
| 77 Perylene-d12 | 499049 | 249525 | 998098 | 494952 | -0.82 |

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

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

REVIEW SUMMARY FOR FILE - NT1003222304.D

Lab ID: SLC0397-LCV1
nt10.i, 20230322.b\ABN.m, 22-MAR-2023 18:59

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT | CCV RRT | DELTA | COMPOUND |
|-------|---------|---------|--------------|
| 0.950 | 0.960 | -0.0095 | Benzoic acid |

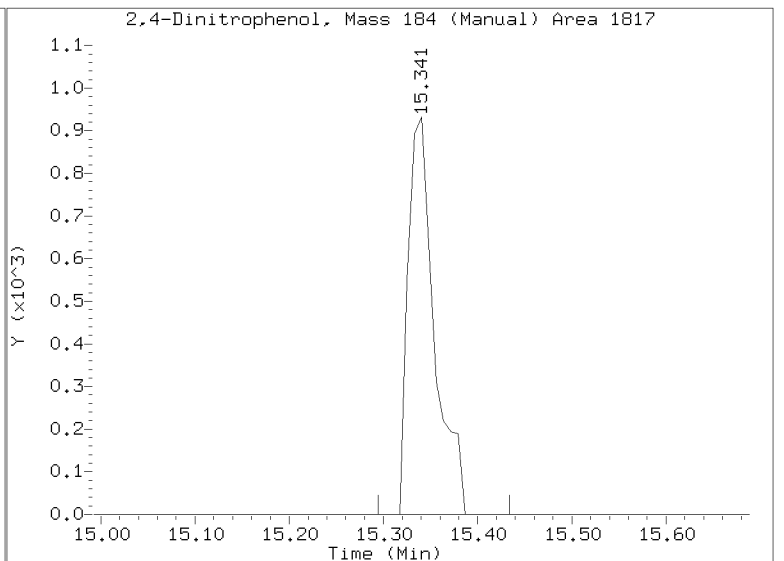
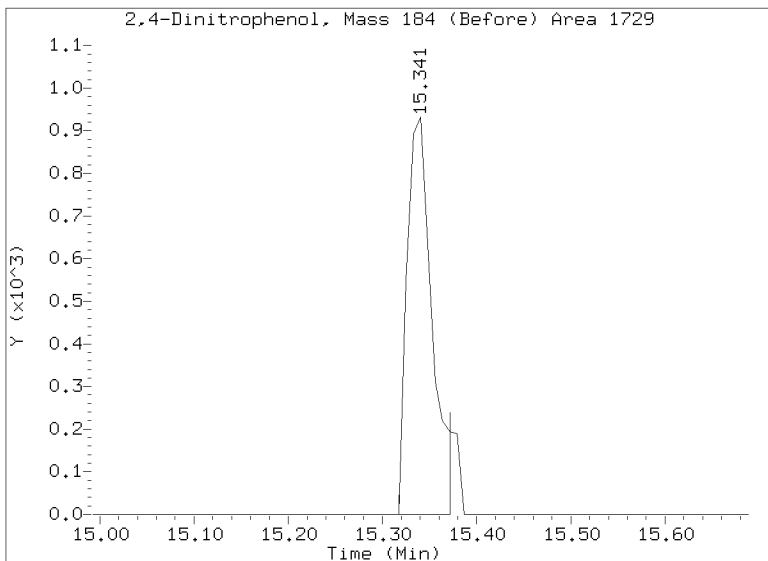
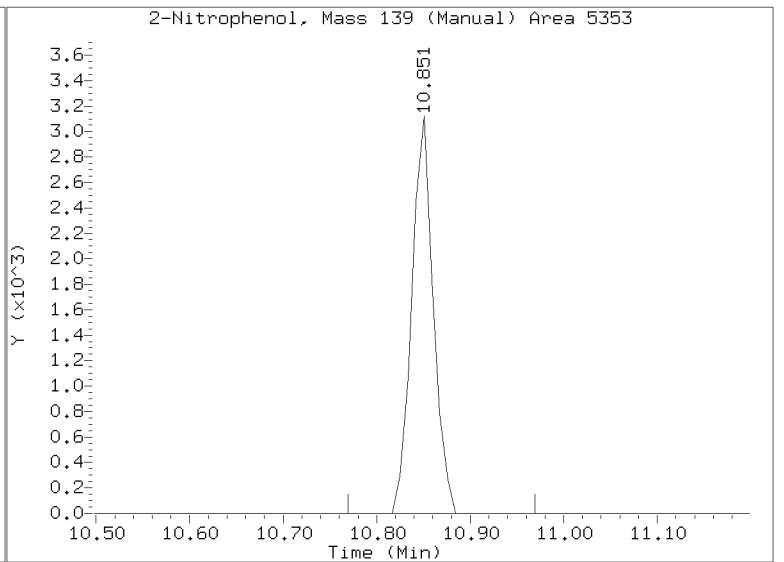
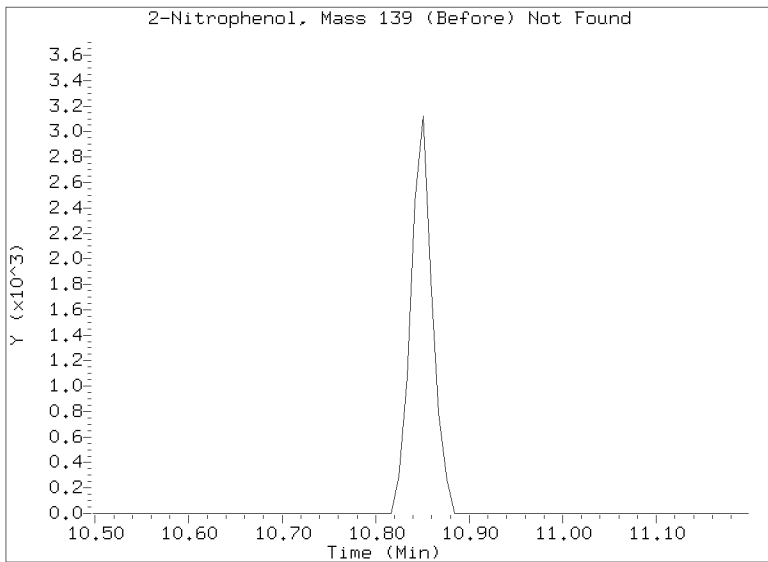
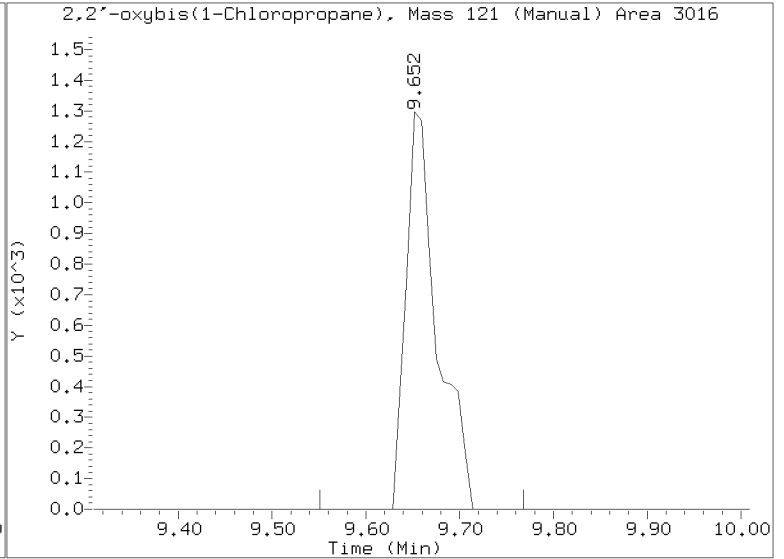
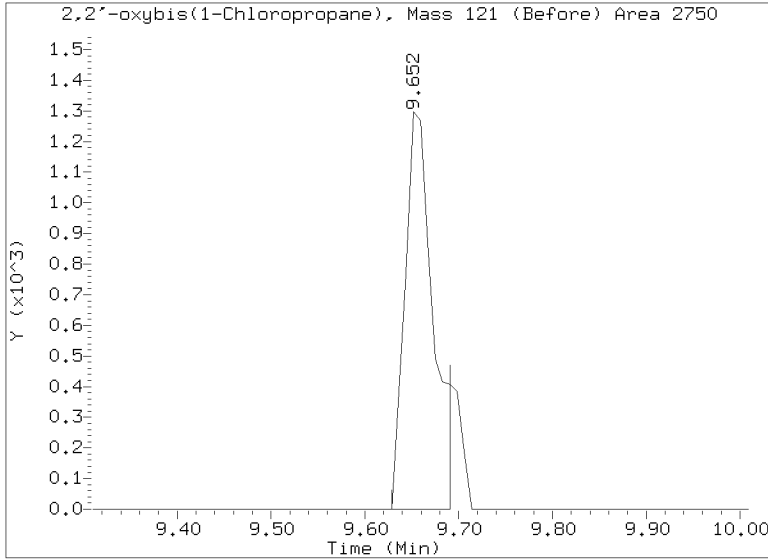
RRT check based on Ccal File: NT1003222302.D

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

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230322.b/NT1003222304.D
Injection Date: 22-MAR-2023 18:59
Lab ID:SLC0397-LCV1 Client ID:
Report Date: 03/25/2023 07:55





**LOW-CONCENTRATION
CALIBRATION VERIFICATION
EPA 8270E**

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Calibration: GC00046

Laboratory ID: SLC0397-LCV2

Sequence: SLC0397

Standard ID: K011105

| ANALYTE | EXPECTED (ug/mL) | FOUND (ug/mL) | % DRIFT | QC LIMIT |
|----------------------------|---------------------|------------------|---------|----------|
| Phenol | 0.20000 | 0.2 | -4.2 | 50.00 |
| 4-Methylphenol | 0.20000 | 0.2 | -6.2 | 50.00 |
| Naphthalene | 0.20000 | 0.2 | 4.0 | 50.00 |
| 2-Methylnaphthalene | 0.20000 | 0.2 | 6.8 | 50.00 |
| Acenaphthylene | 0.20000 | 0.2 | 3.9 | 50.00 |
| Dimethylphthalate | 0.20000 | 0.2 | 6.2 | 50.00 |
| Acenaphthene | 0.20000 | 0.2 | 3.2 | 50.00 |
| Dibenzofuran | 0.20000 | 0.2 | 2.3 | 50.00 |
| Fluorene | 0.20000 | 0.2 | 5.9 | 50.00 |
| Phenanthrene | 0.20000 | 0.2 | 4.8 | 50.00 |
| Anthracene | 0.20000 | 0.2 | 0.3 | 50.00 |
| Fluoranthene | 0.20000 | 0.2 | -9.9 | 50.00 |
| Pyrene | 0.20000 | 0.2 | -10.5 | 50.00 |
| Butylbenzylphthalate | 0.20000 | 0.2 | 7.9 | 50.00 |
| Benzo(a)anthracene | 0.20000 | 0.2 | 7.3 | 50.00 |
| Chrysene | 0.20000 | 0.2 | 2.2 | 50.00 |
| bis(2-Ethylhexyl)phthalate | 0.20000 | 0.2 | -6.4 | 50.00 |
| Benzo(a)pyrene | 0.20000 | 0.2 | 7.9 | 50.00 |
| Indeno(1,2,3-cd)pyrene | 0.20000 | 0.2 | 1.0 | 50.00 |
| Dibenzo(a,h)anthracene | 0.20000 | 0.2 | 3.8 | 50.00 |
| Benzo(g,h,i)perylene | 0.20000 | 0.2 | -5.2 | 50.00 |
| 2-Fluorophenol | 0.30000 | 0.302 | 0.7 | 50.00 |
| Phenol-d5 | 0.30000 | 0.289 | -3.7 | 50.00 |
| 2-Chlorophenol-d4 | 0.30000 | 0.302 | 0.7 | 50.00 |
| 1,2-Dichlorobenzene-d4 | 0.20000 | 0.207 | 3.6 | 50.00 |
| Nitrobenzene-d5 | 0.20000 | 0.194 | -2.9 | 50.00 |
| 2-Fluorobiphenyl | 0.20000 | 0.213 | 6.4 | 50.00 |
| 2,4,6-Tribromophenol | 0.30000 | 0.282 | -6.0 | 50.00 |



**LOW-CONCENTRATION
CALIBRATION VERIFICATION
EPA 8270E**

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Calibration: GC00046

Laboratory ID: SLC0397-LCV2

Sequence: SLC0397

Standard ID: K011105

| | | | | |
|-----------------|---------|-------|------|-------|
| p-Terphenyl-d14 | 0.20000 | 0.199 | -0.7 | 50.00 |
|-----------------|---------|-------|------|-------|

* Values outside of QC limits

Data File: \\target\share\chem3\nt10.1\20230322.16\NT1003222319.D

Date: 23-MAR-2023 04:30

Client ID:

Sample Info: SLC0397-LCW2

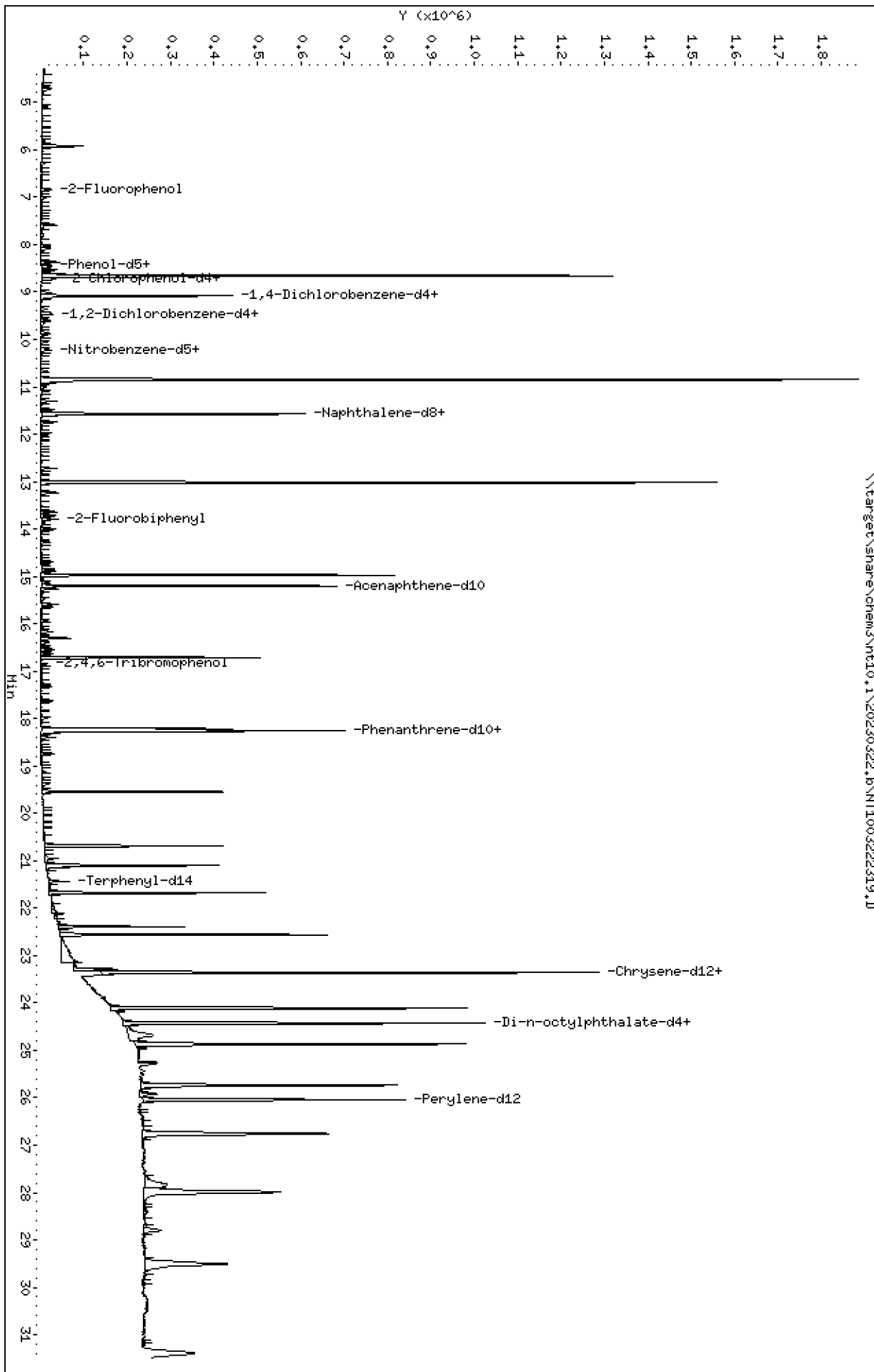
Column phase: ZB-5msi

Instrument: nt10.1

Operator: VTS

Column diameter: 0.25

Page 1



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

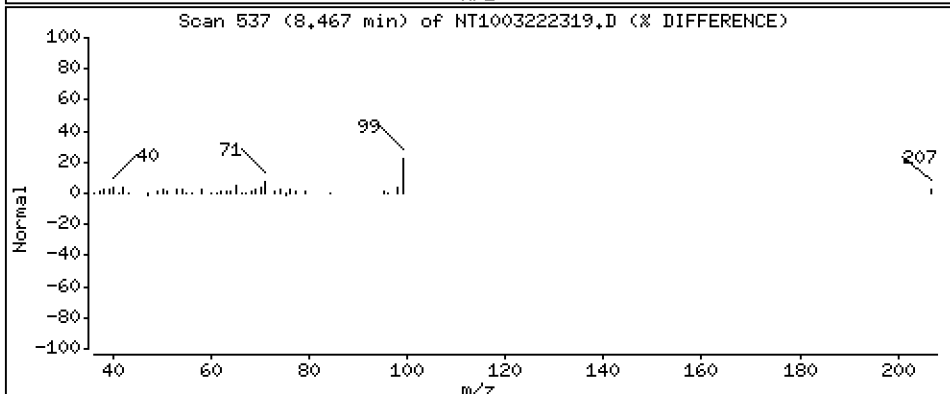
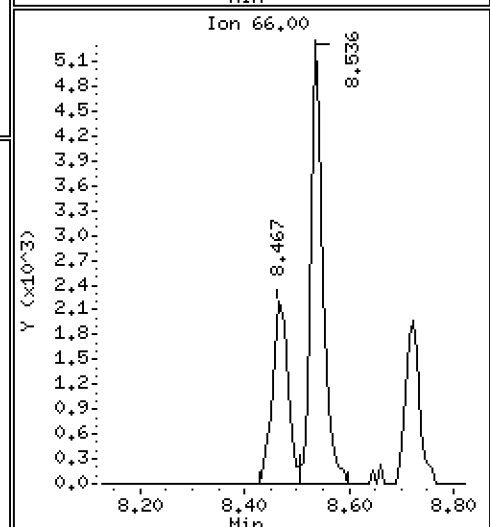
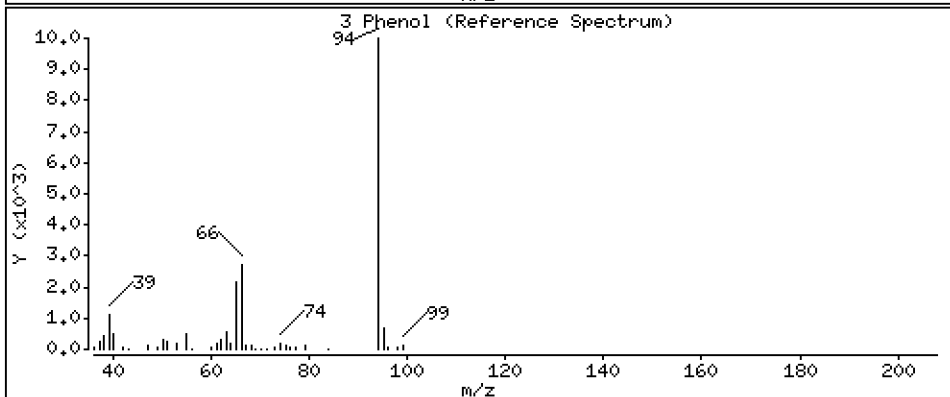
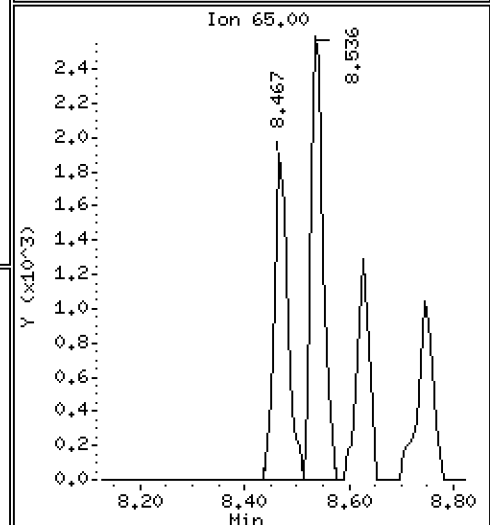
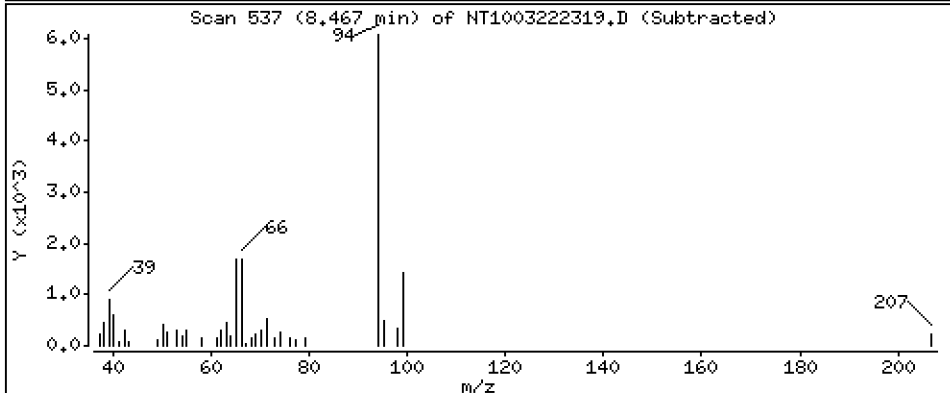
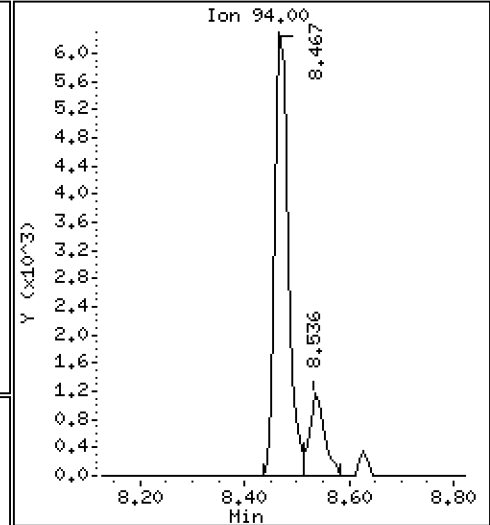
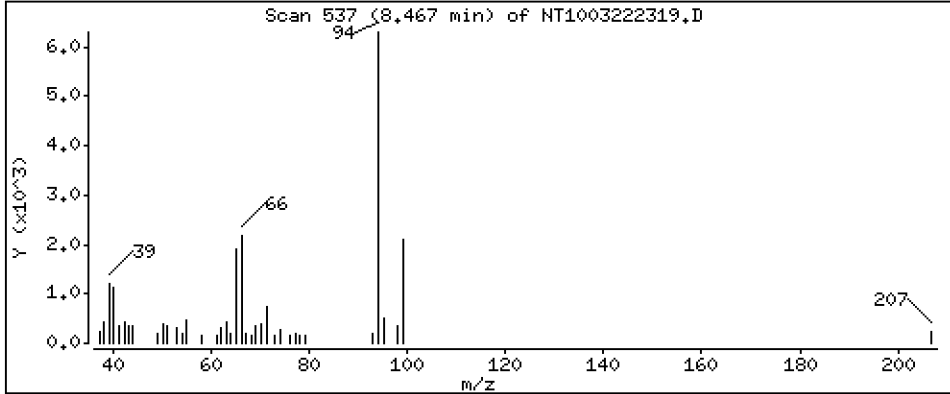
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

3 Phenol

Concentration: 0.1917 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

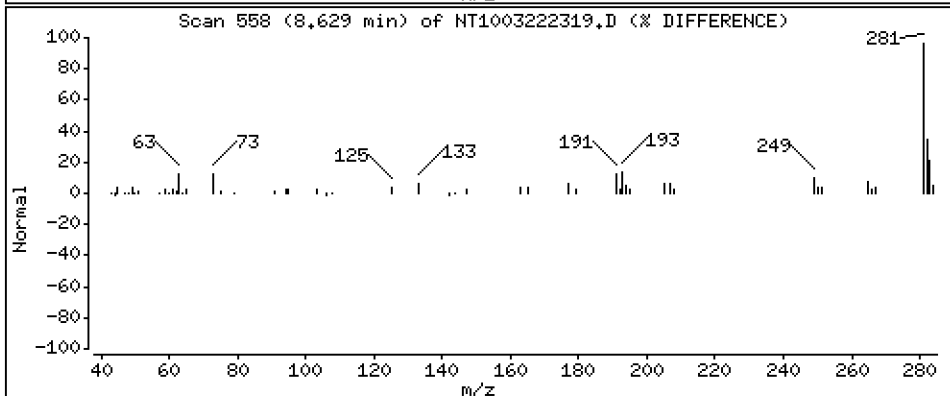
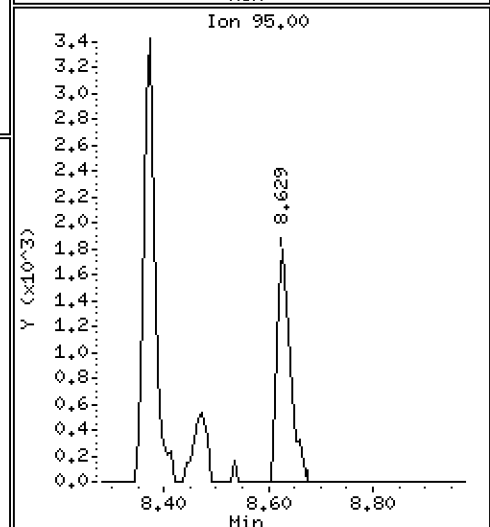
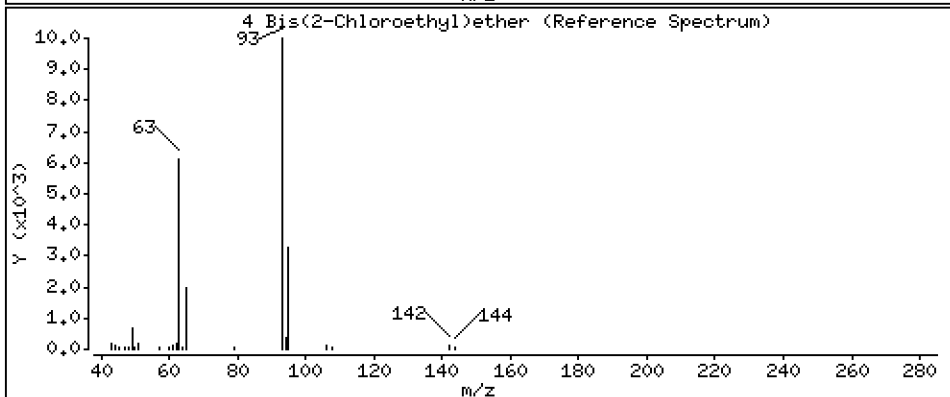
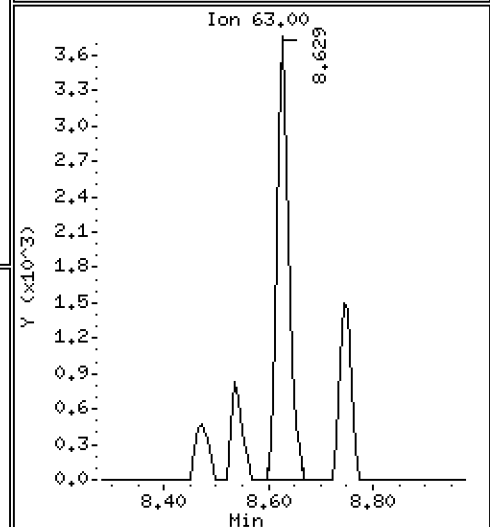
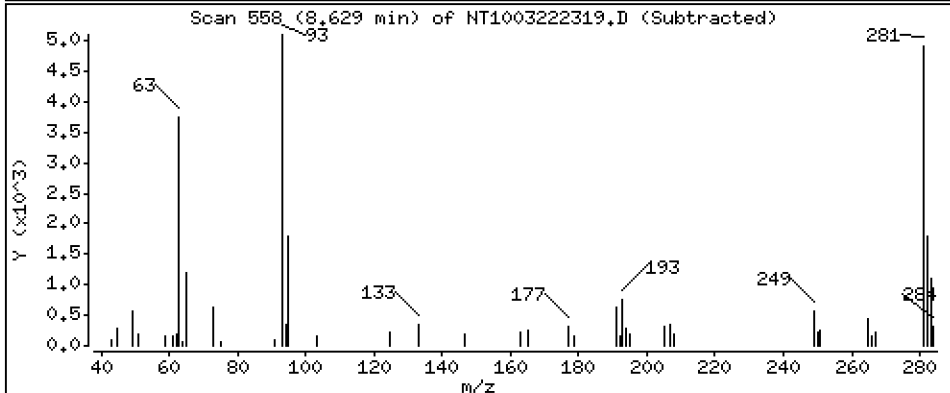
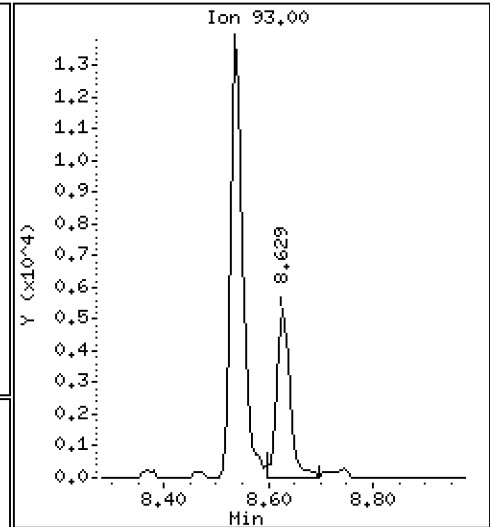
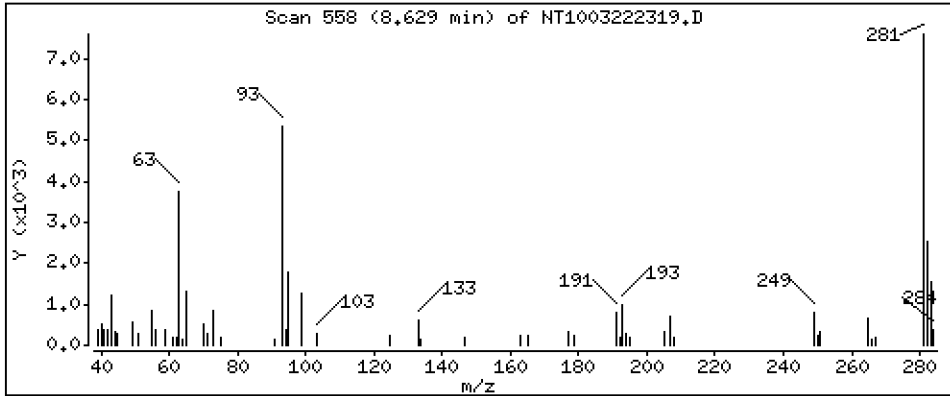
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

4 Bis(2-Chloroethyl)ether

Concentration: 0.2169 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

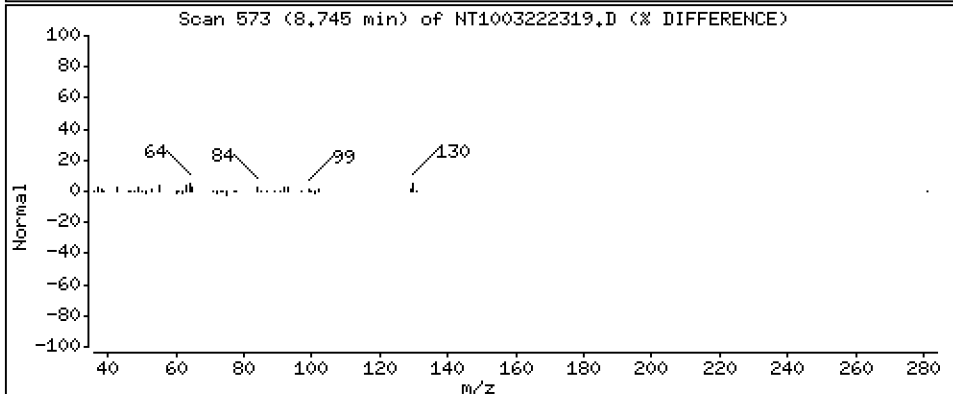
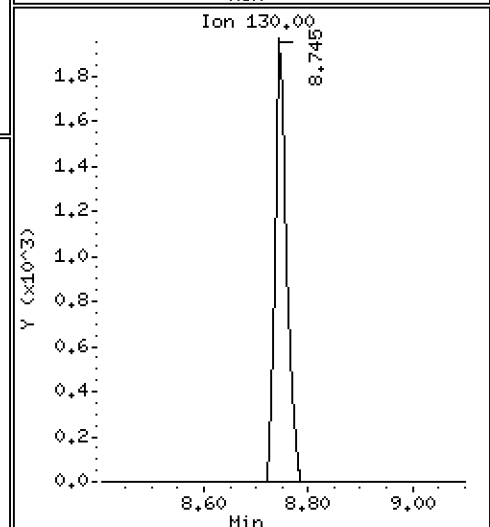
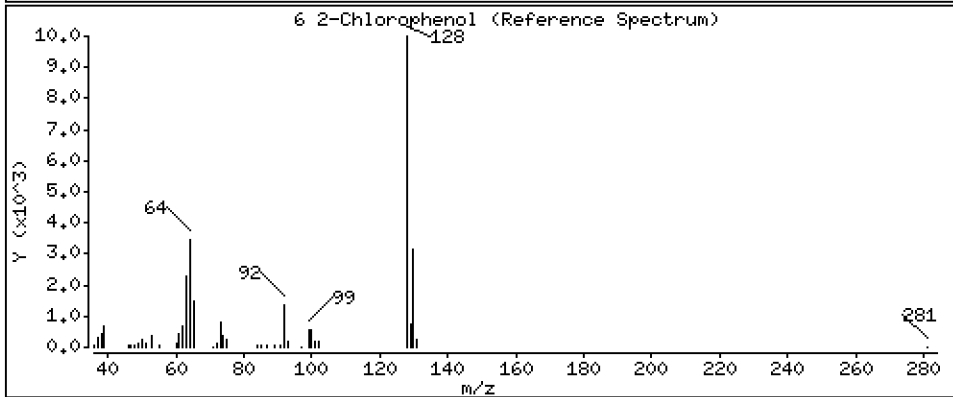
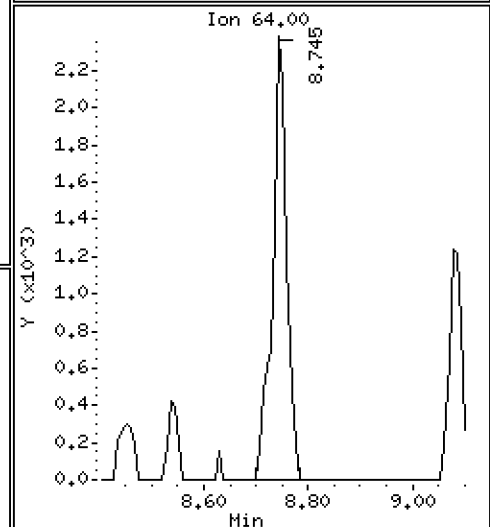
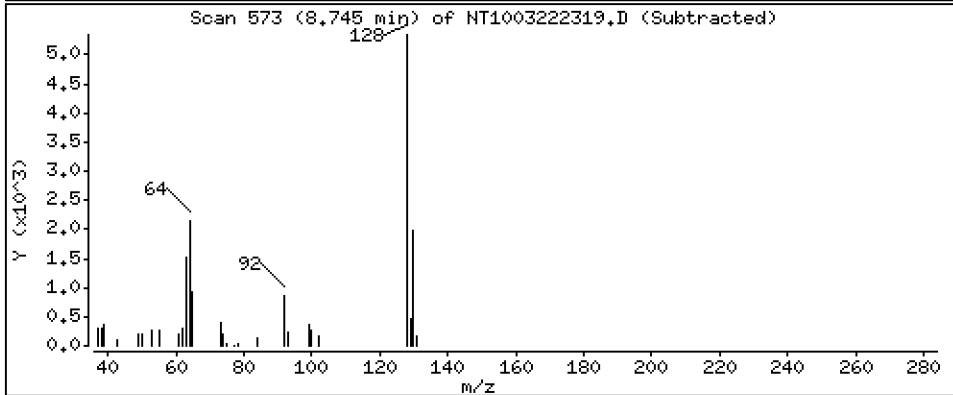
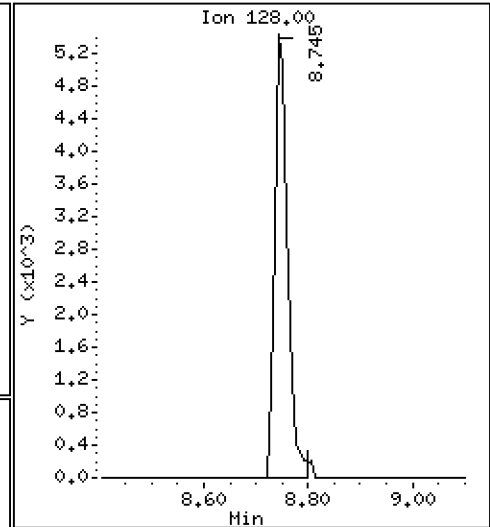
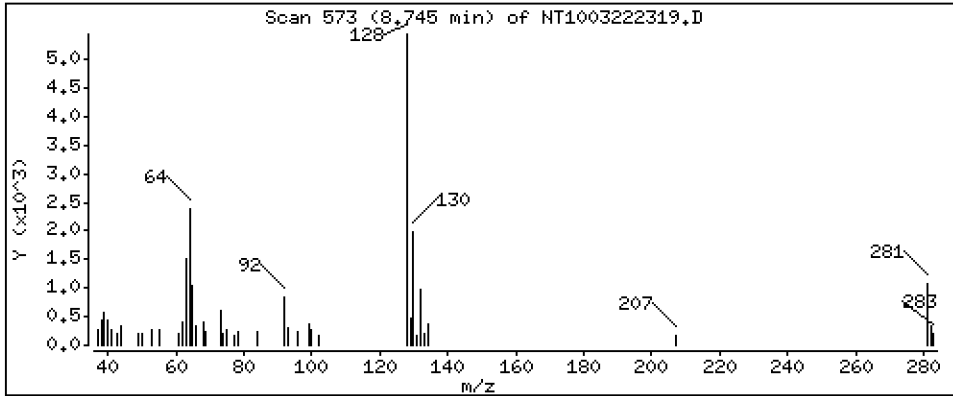
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 0,1931 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

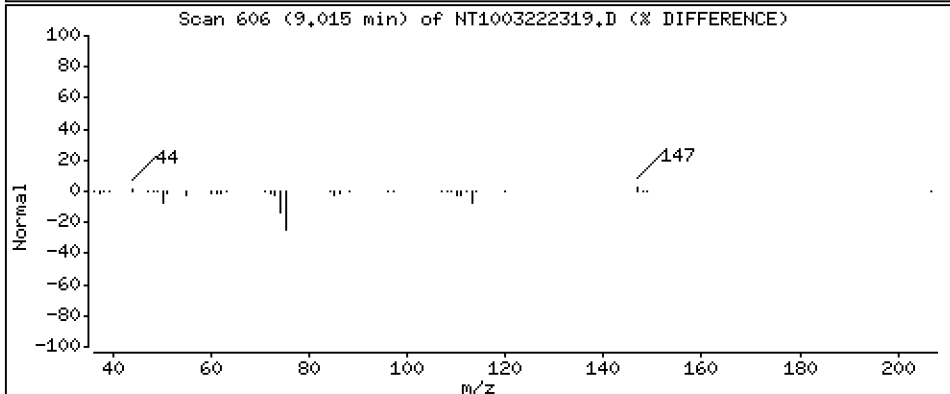
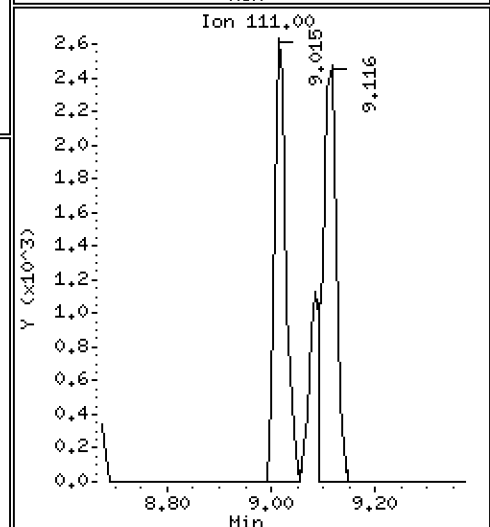
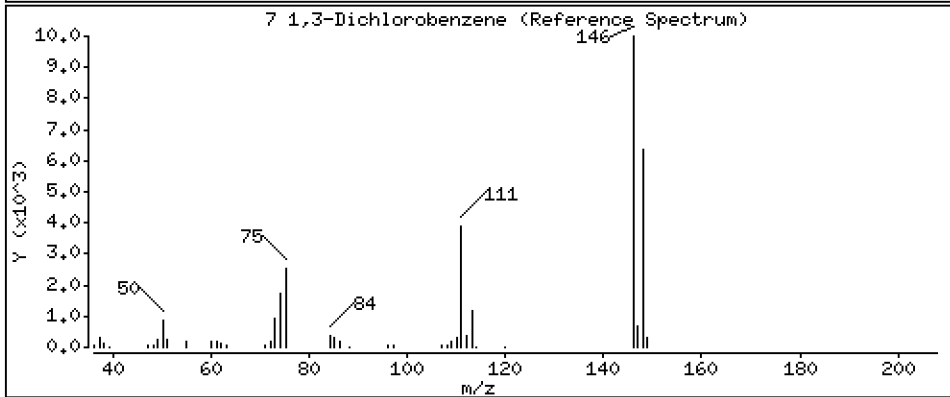
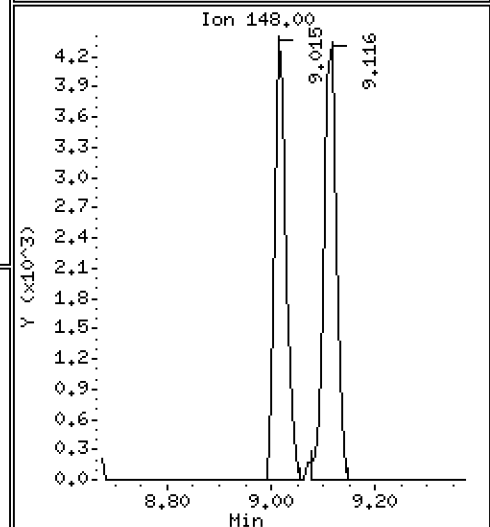
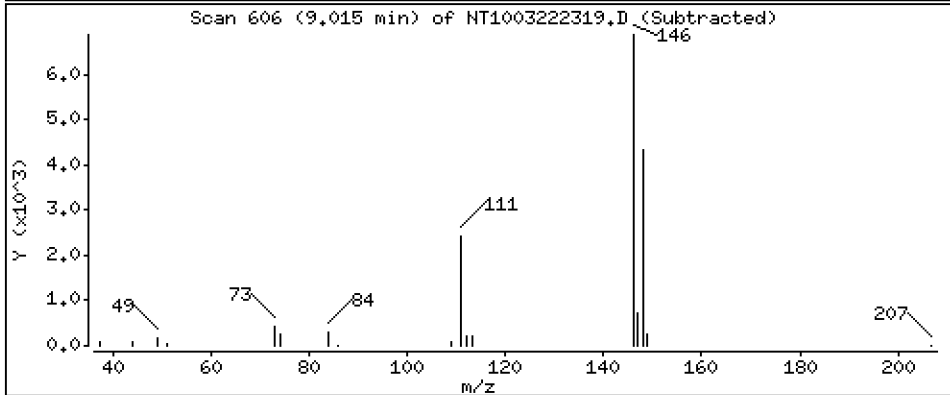
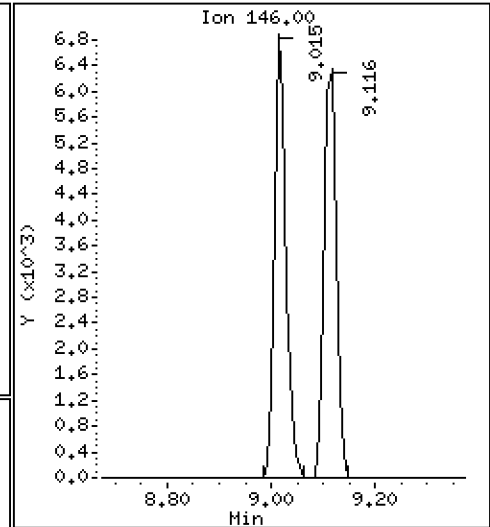
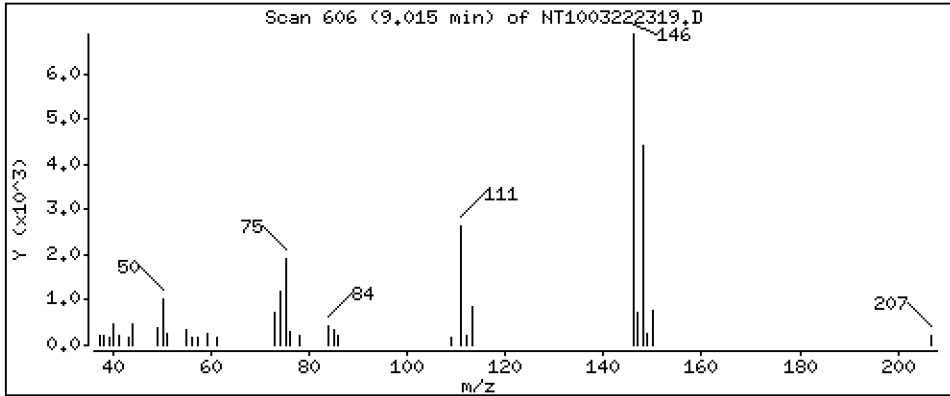
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

7 1,3-Dichlorobenzene

Concentration: 0.2084 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

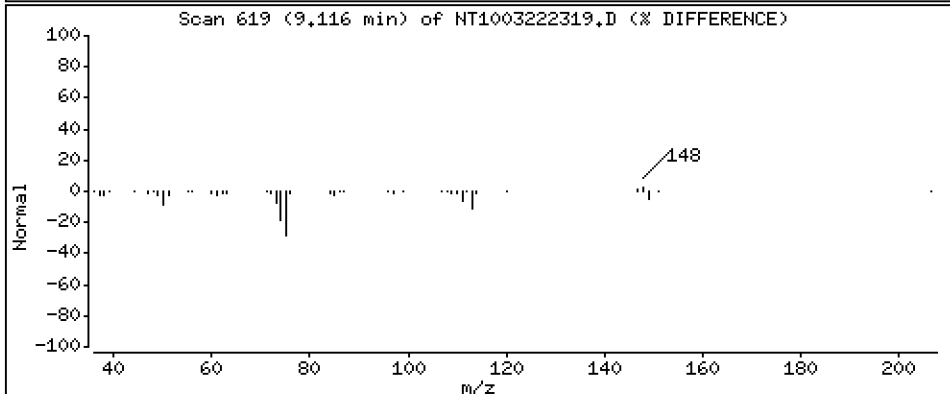
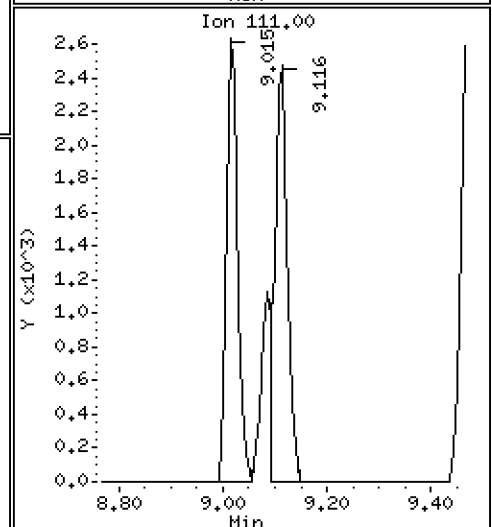
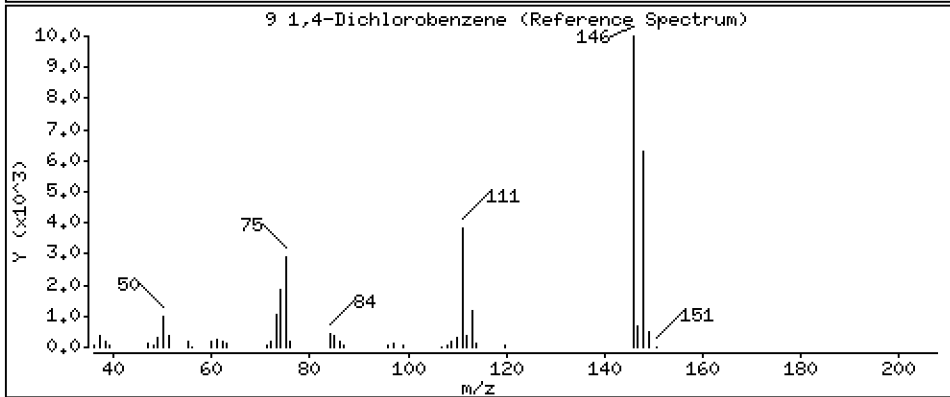
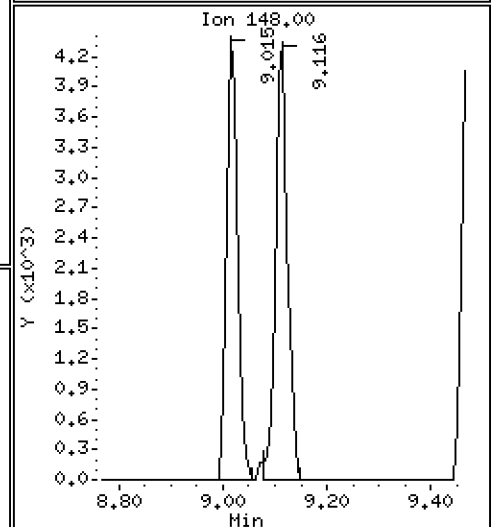
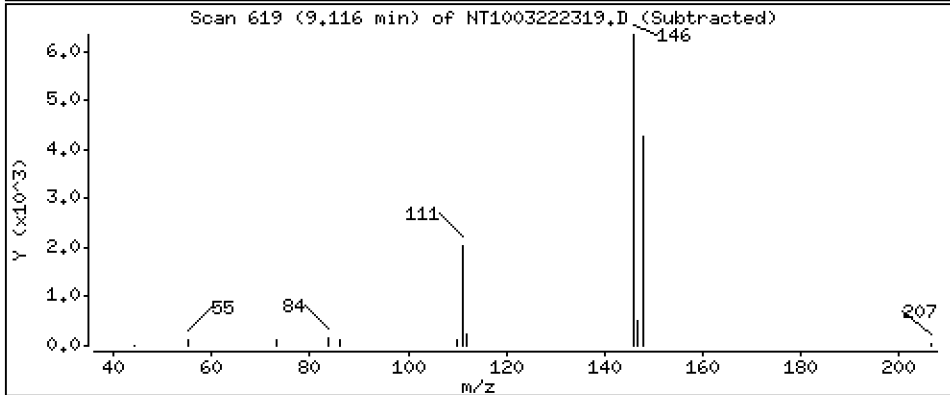
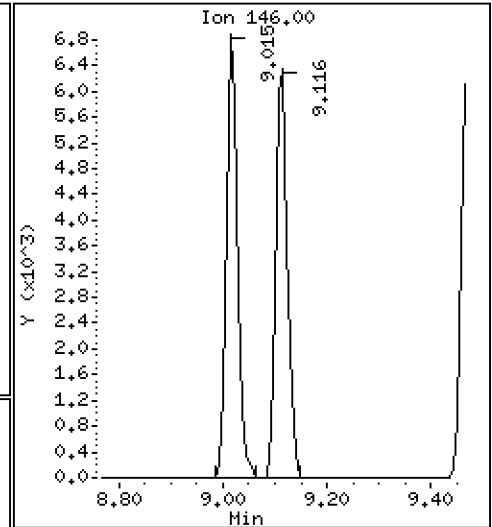
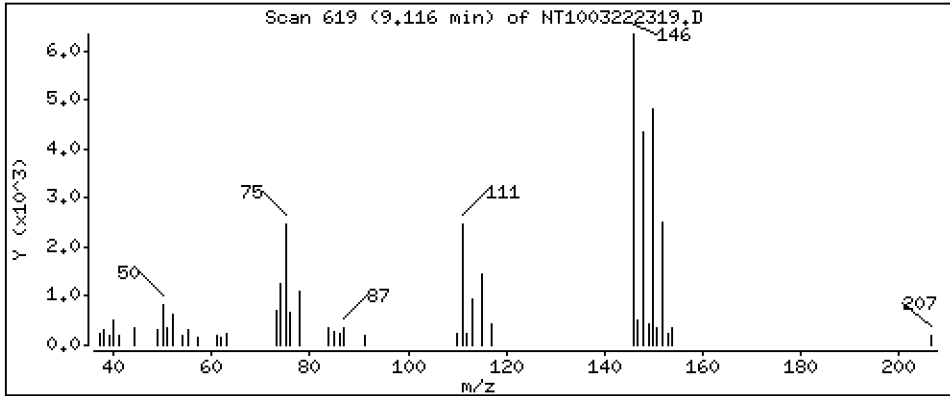
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 0,1999 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

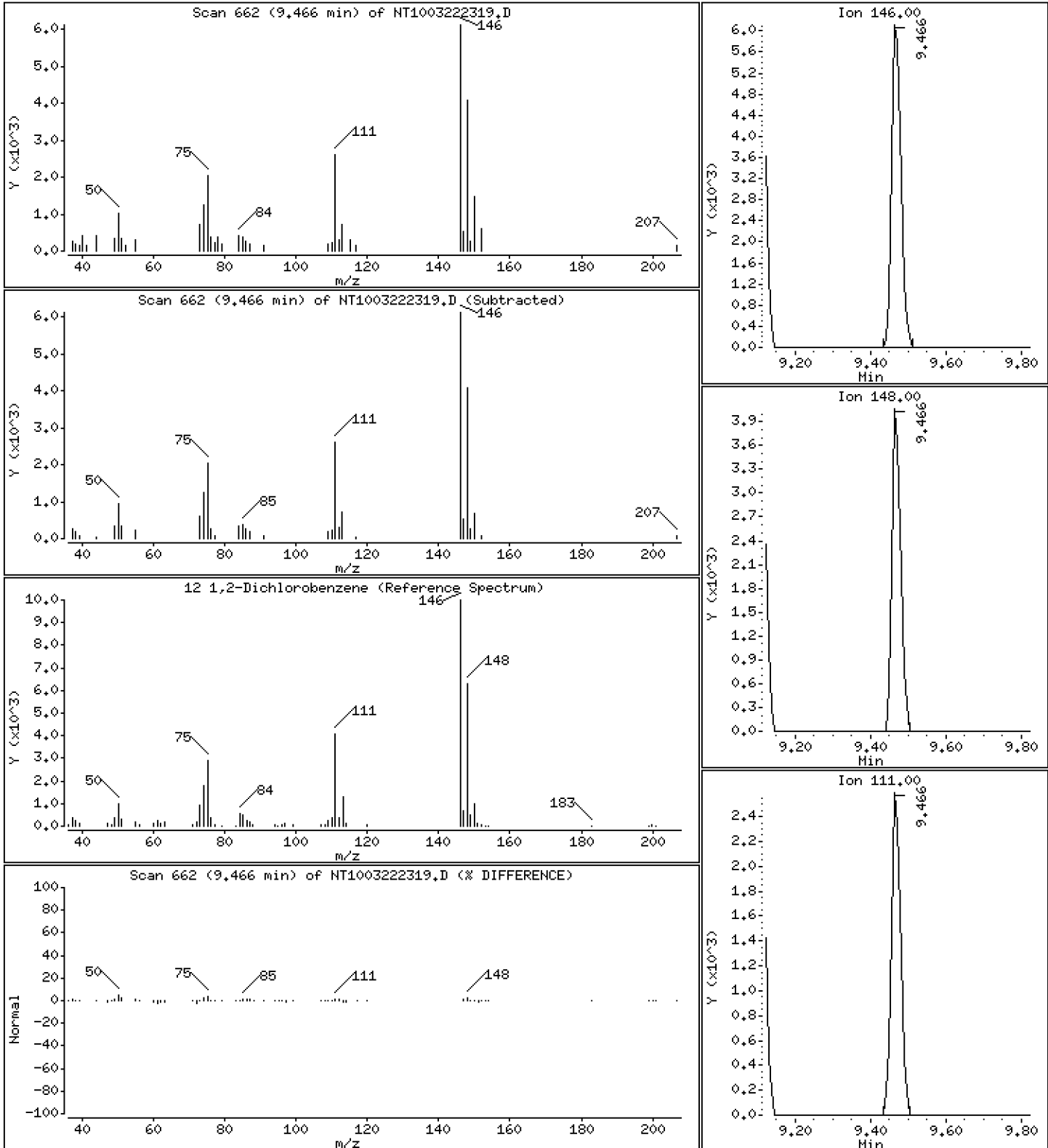
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

12 1,2-Dichlorobenzene

Concentration: 0,2087 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

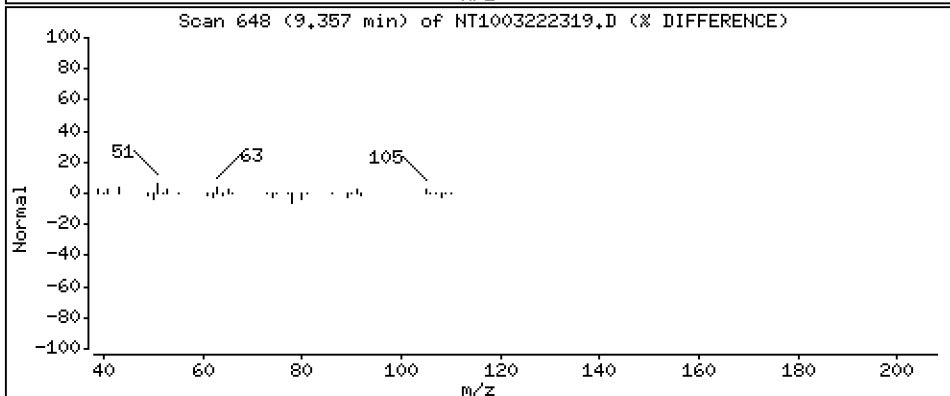
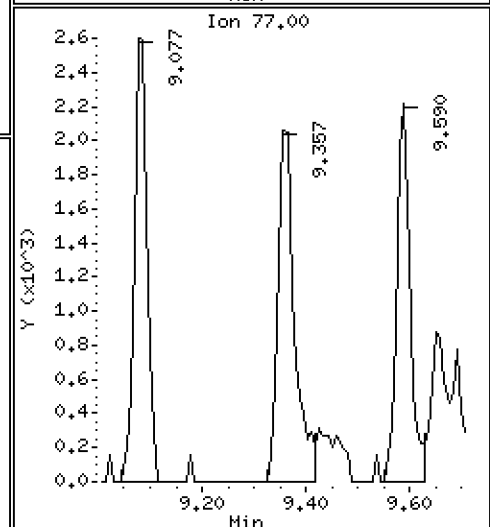
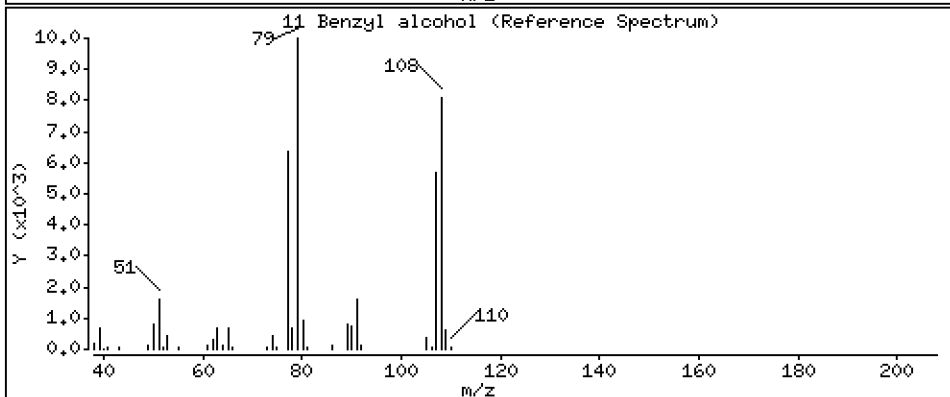
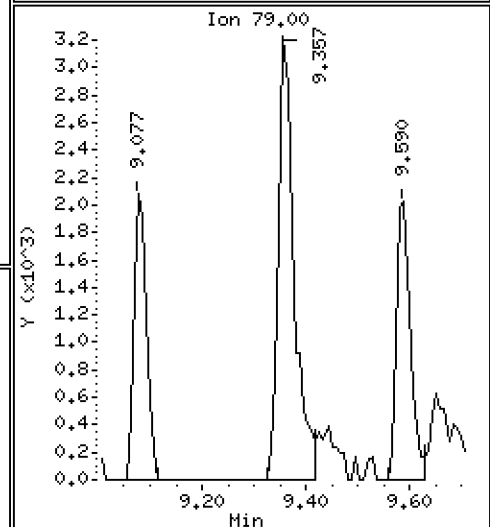
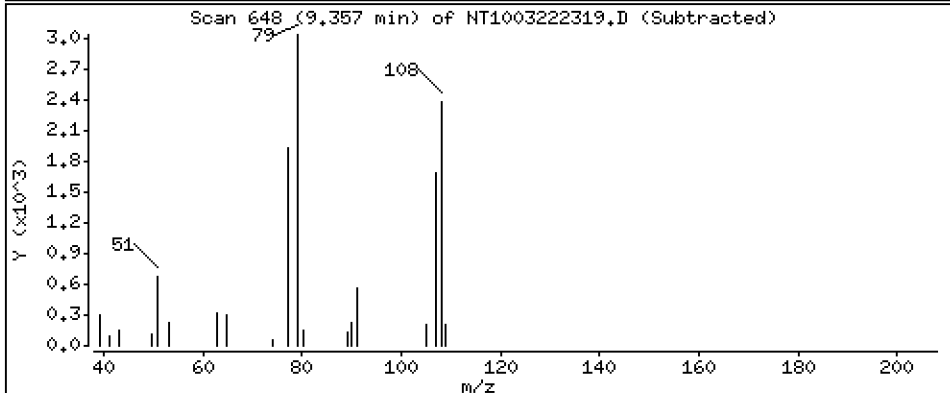
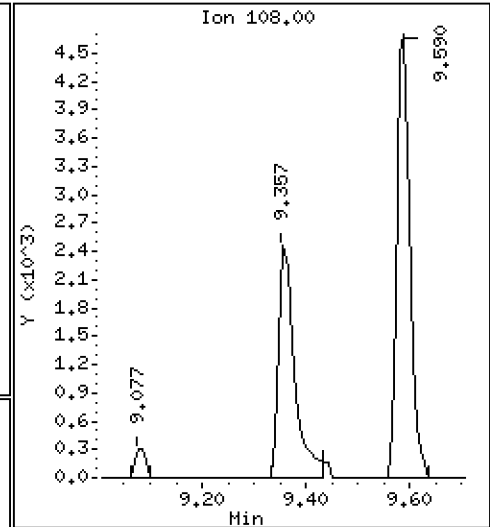
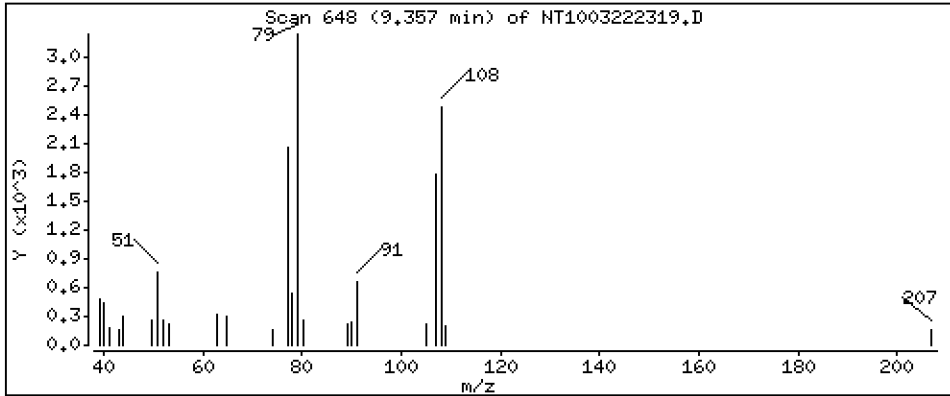
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 0.1930 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

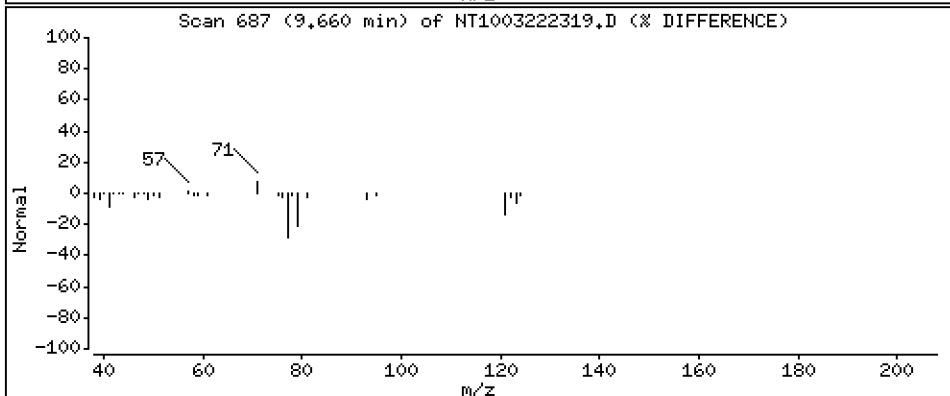
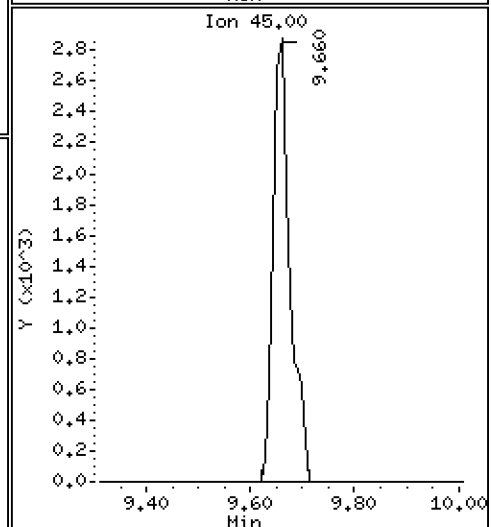
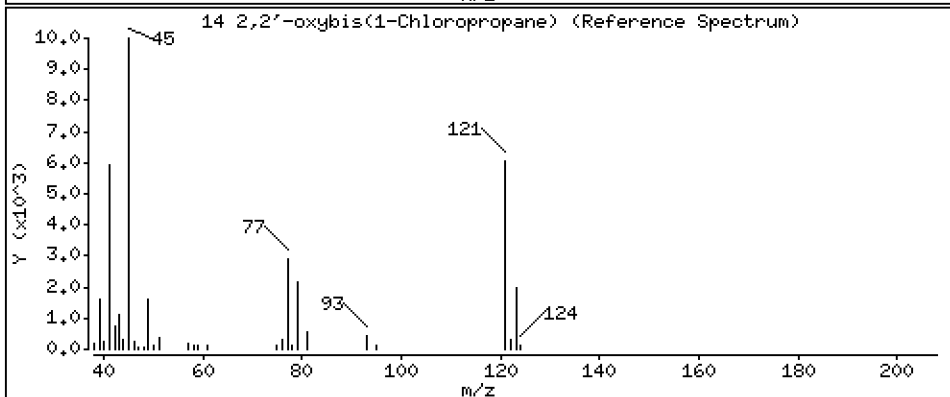
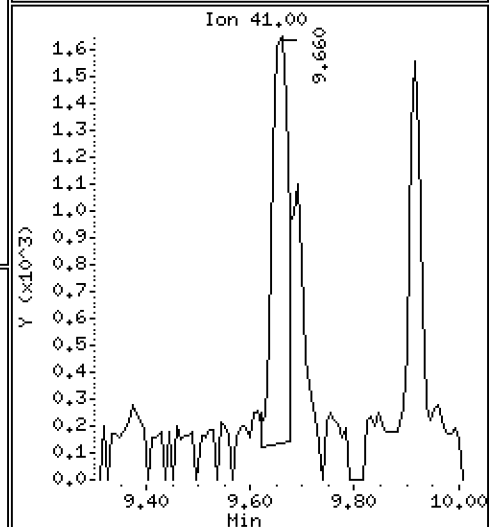
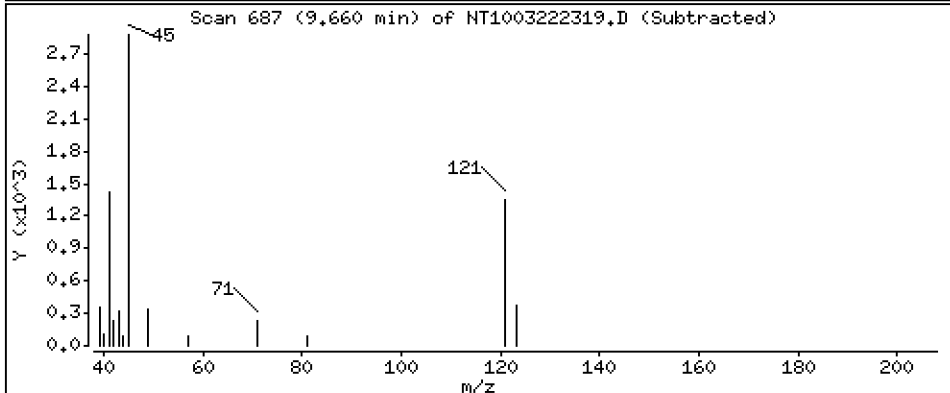
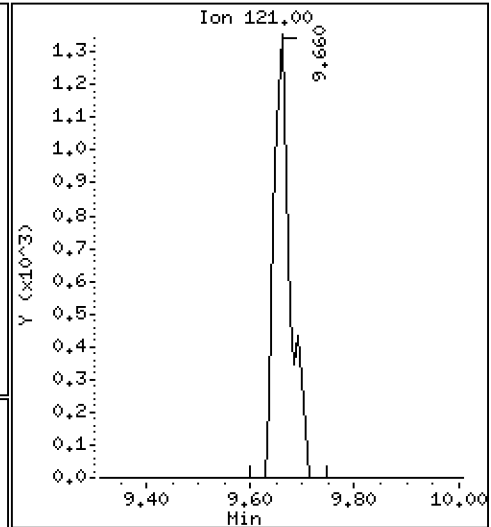
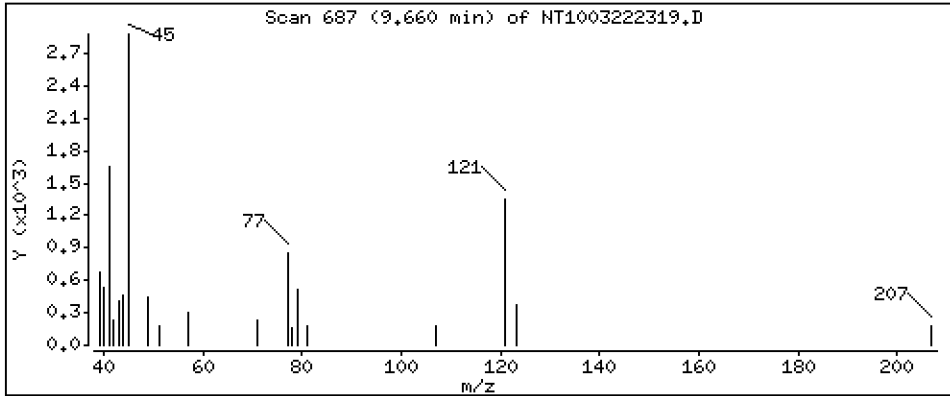
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

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

Concentration: 0.2002 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

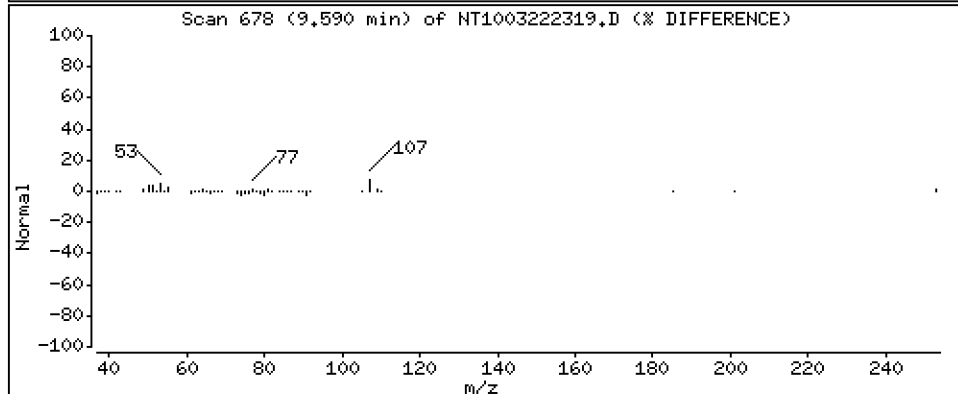
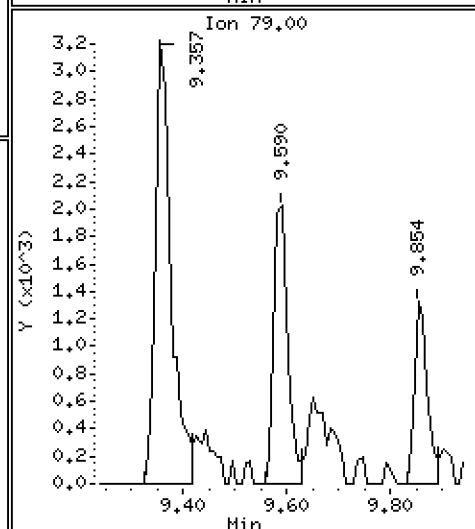
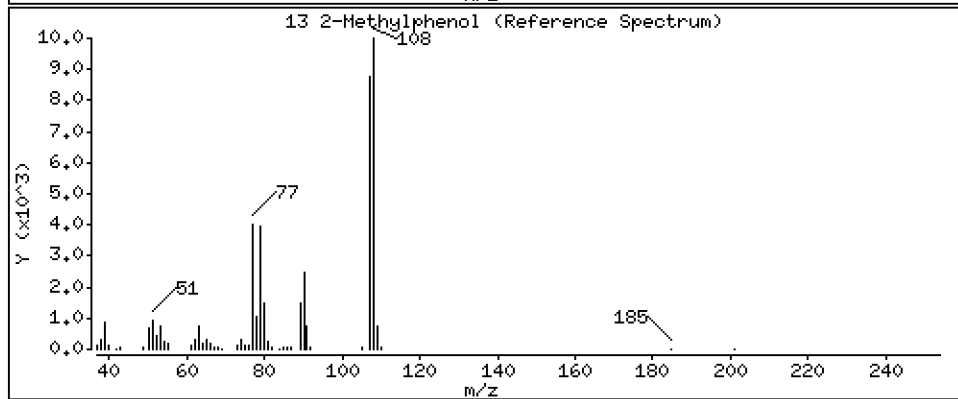
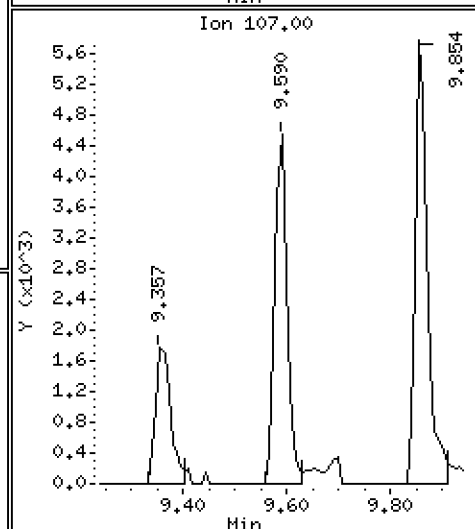
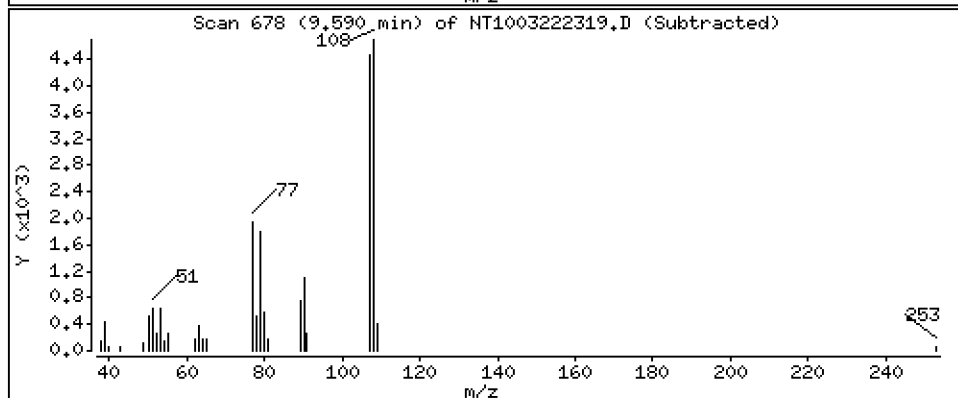
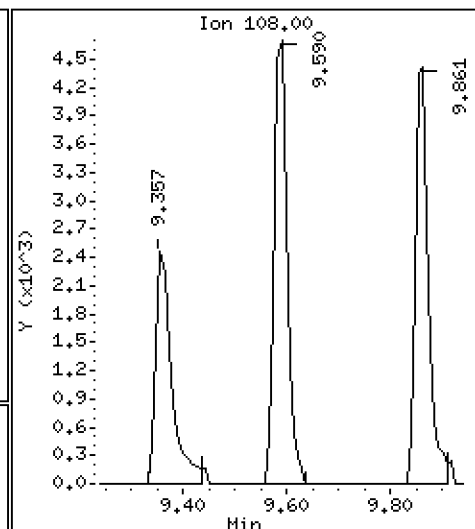
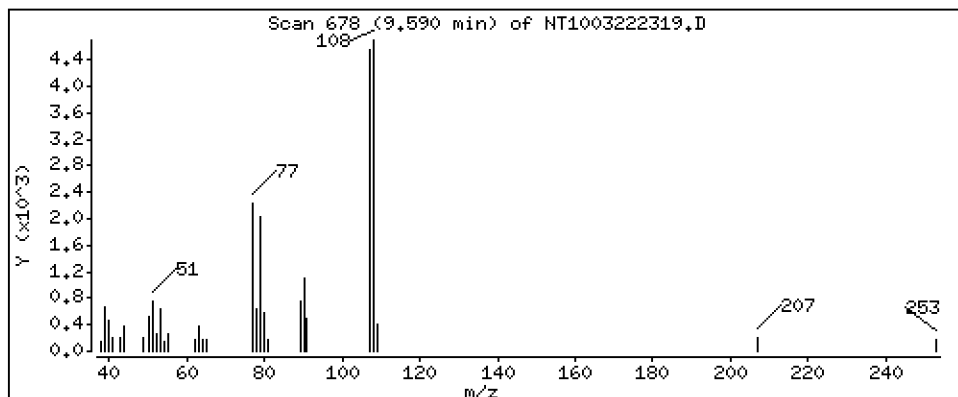
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

13 2-Methylphenol

Concentration: 0,1886 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

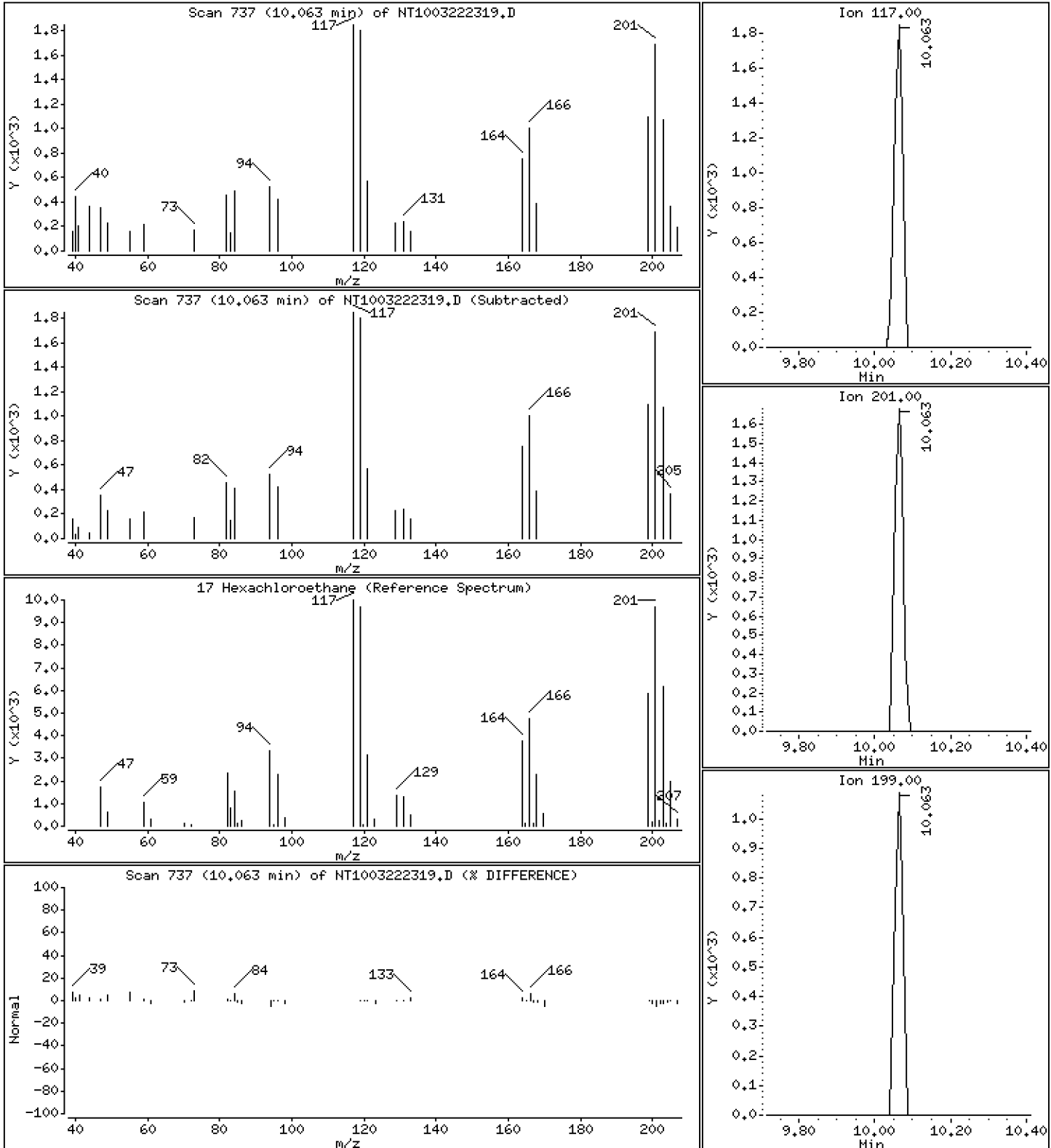
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

17 Hexachloroethane

Concentration: 0,1339 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

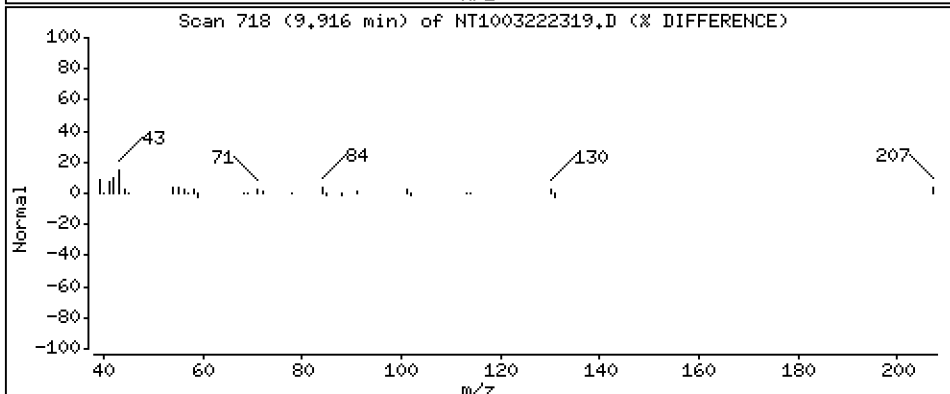
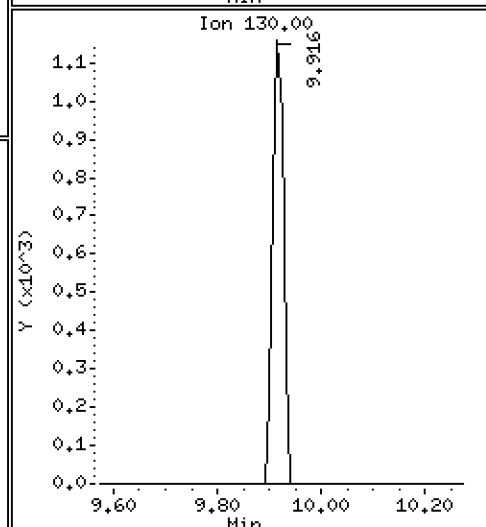
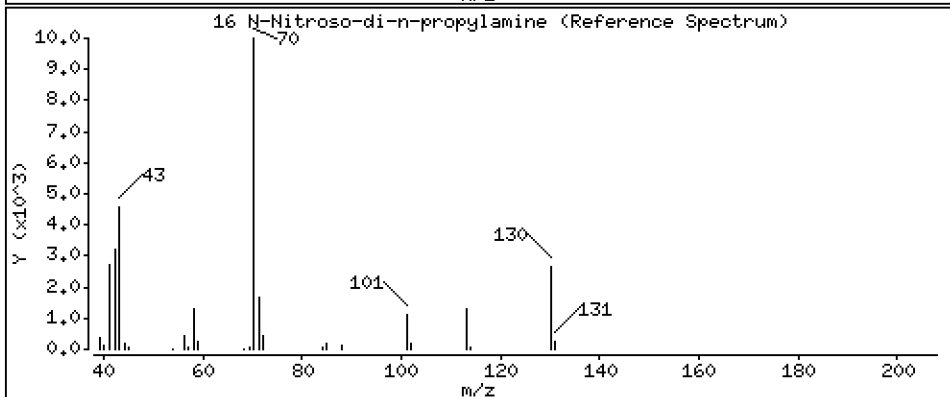
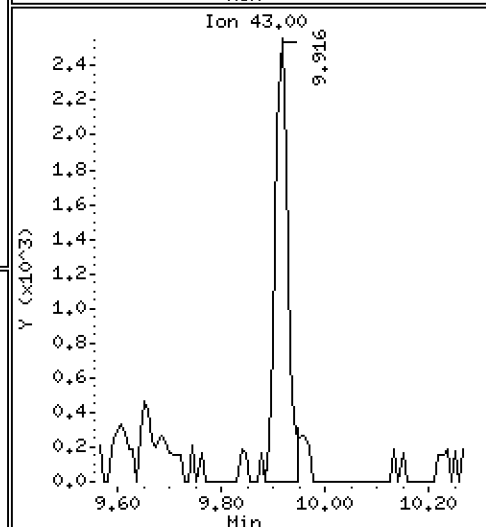
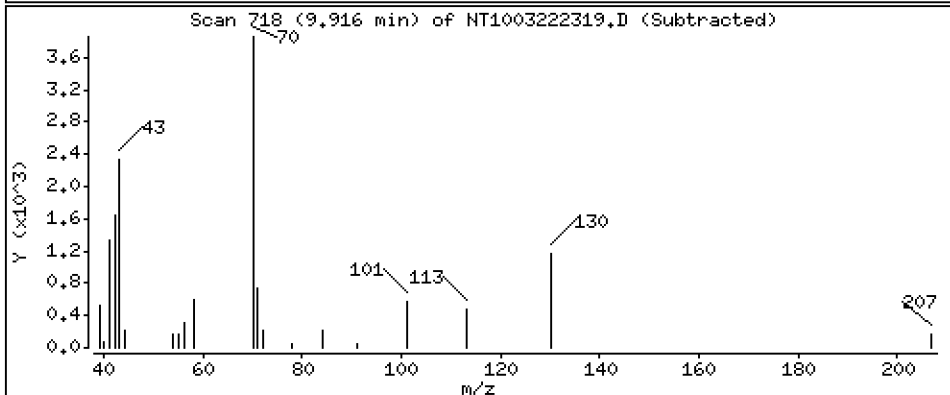
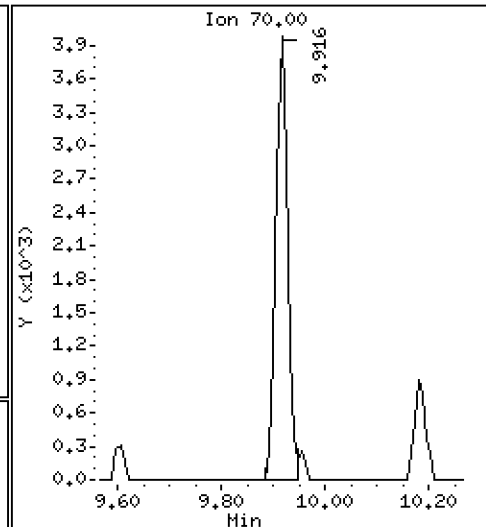
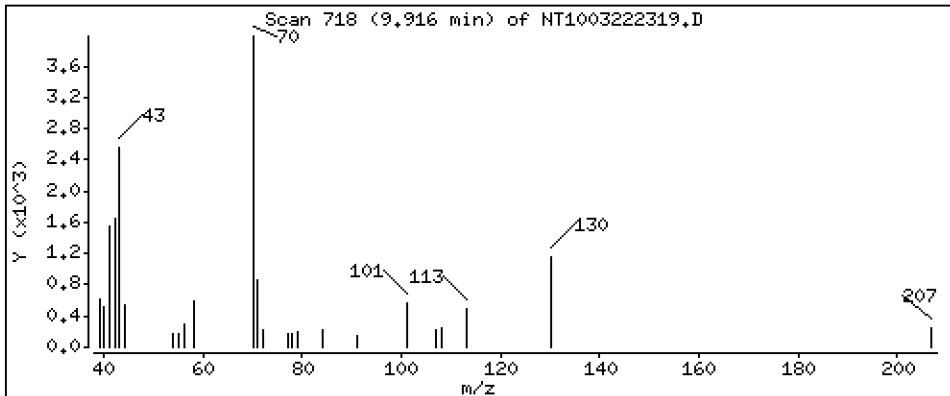
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

16 N-Nitroso-di-n-propylamine

Concentration: 0,1829 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

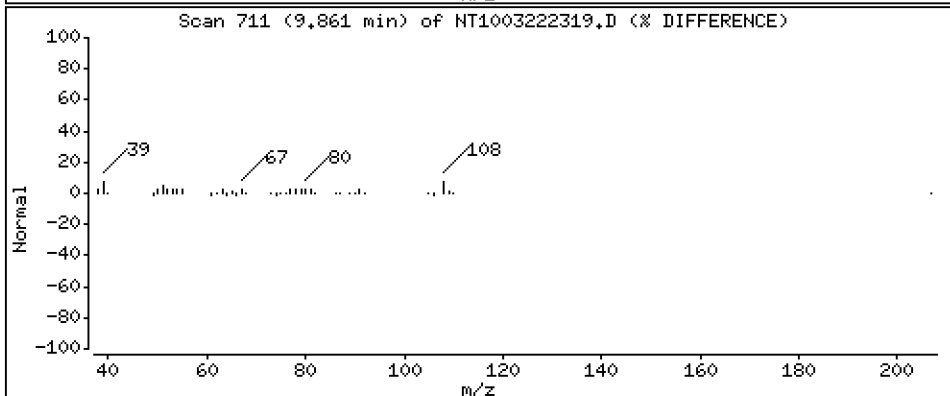
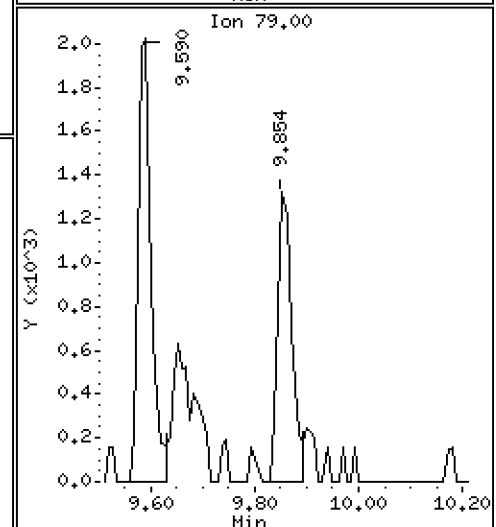
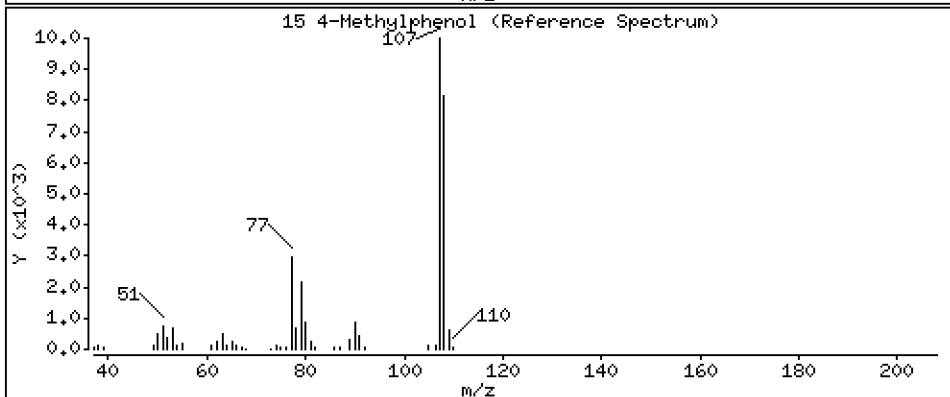
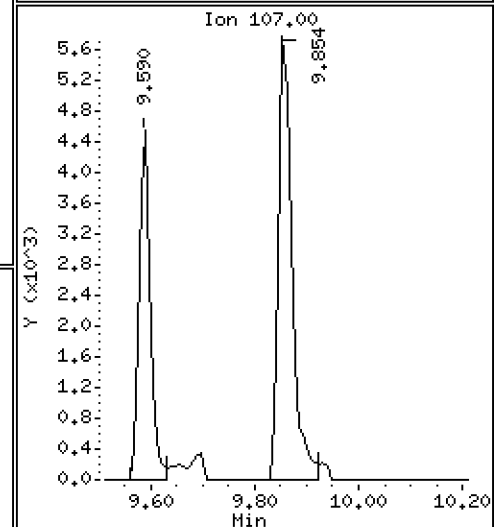
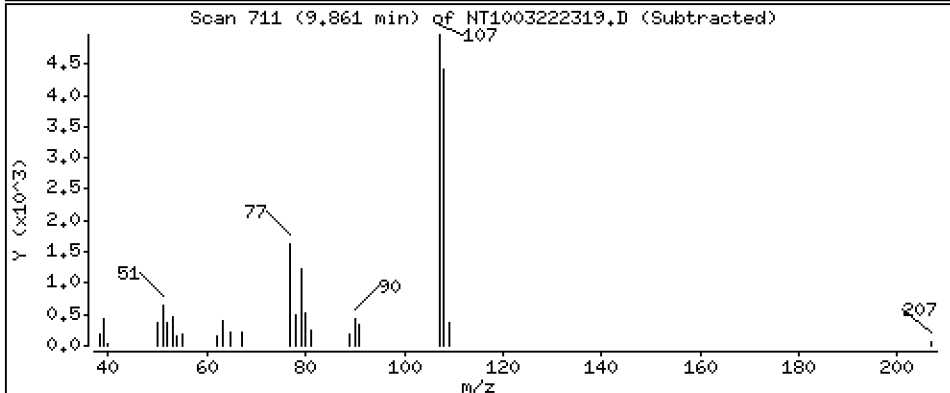
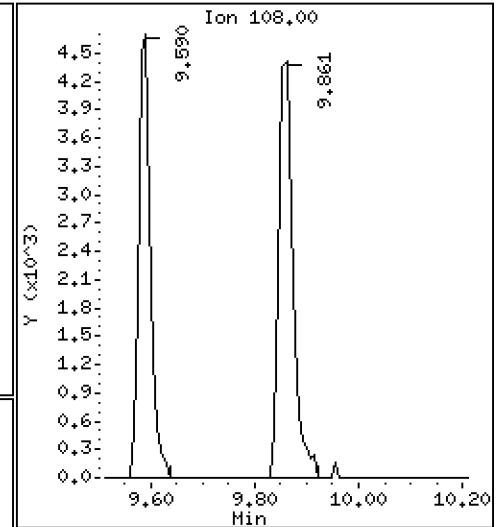
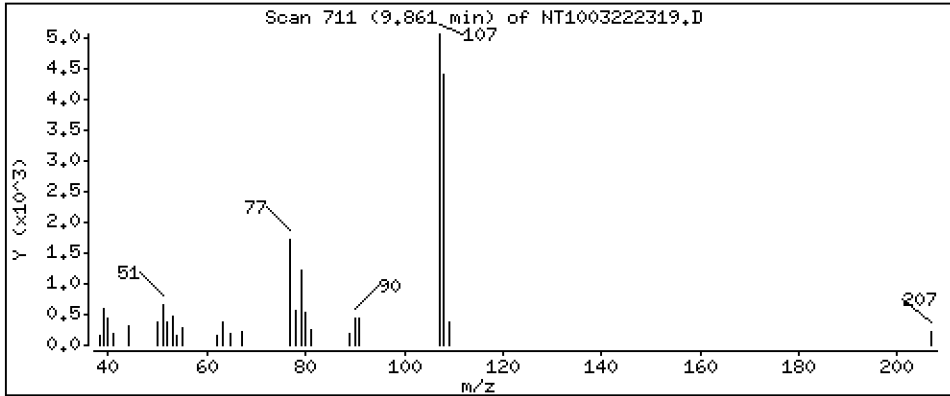
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

15 4-Methylphenol

Concentration: 0,1877 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

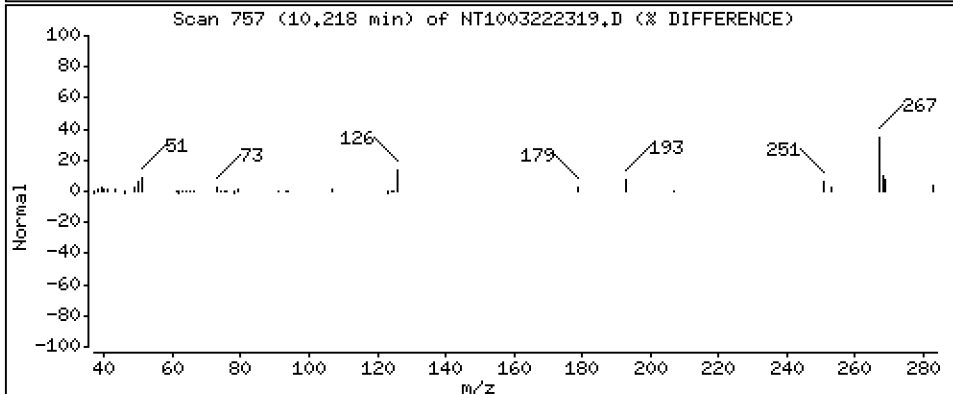
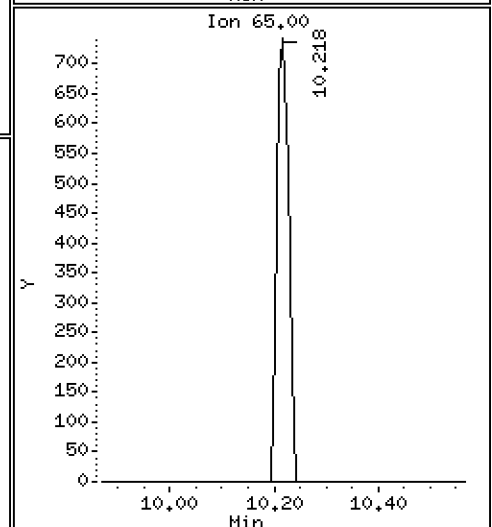
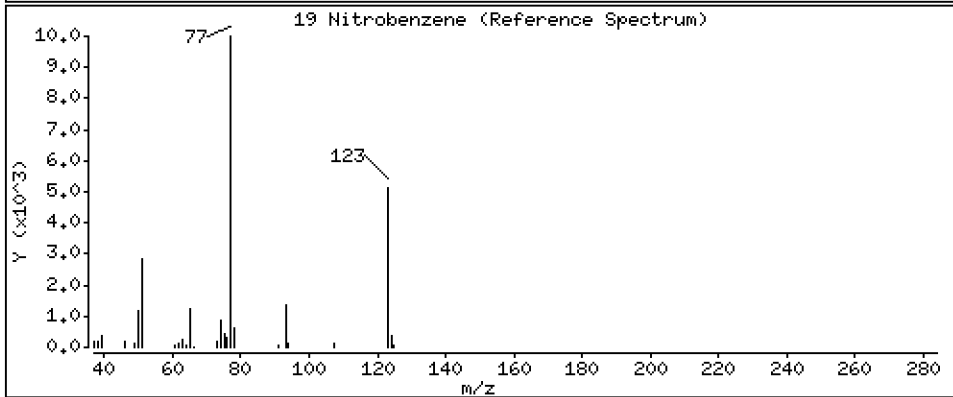
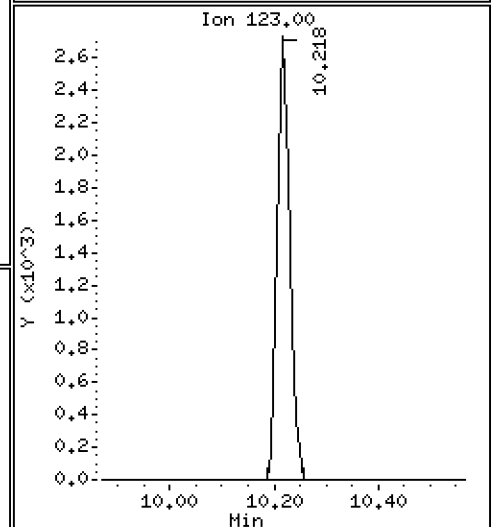
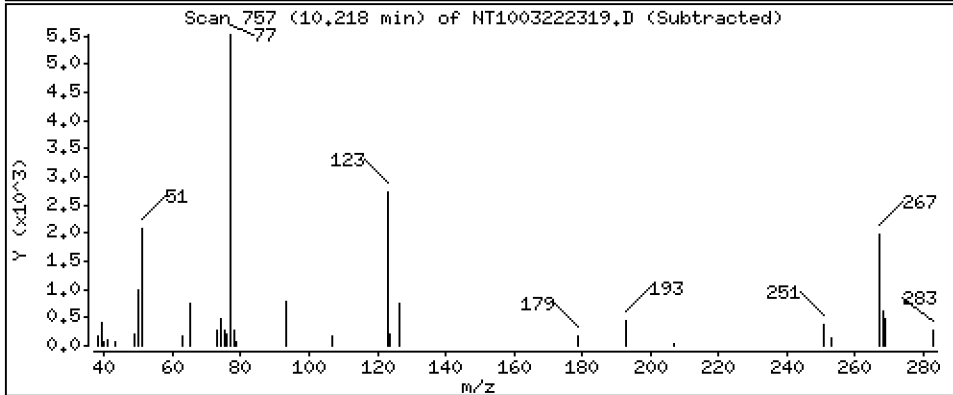
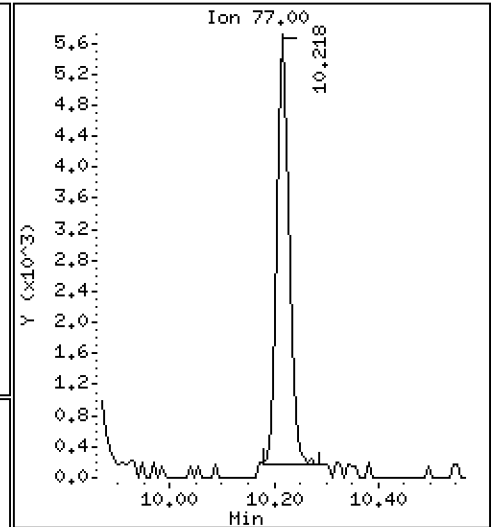
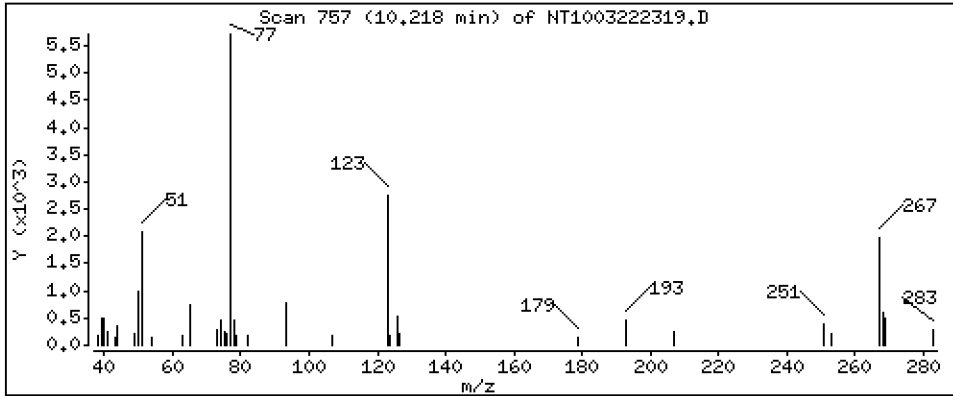
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

19 Nitrobenzene

Concentration: 0,1801 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

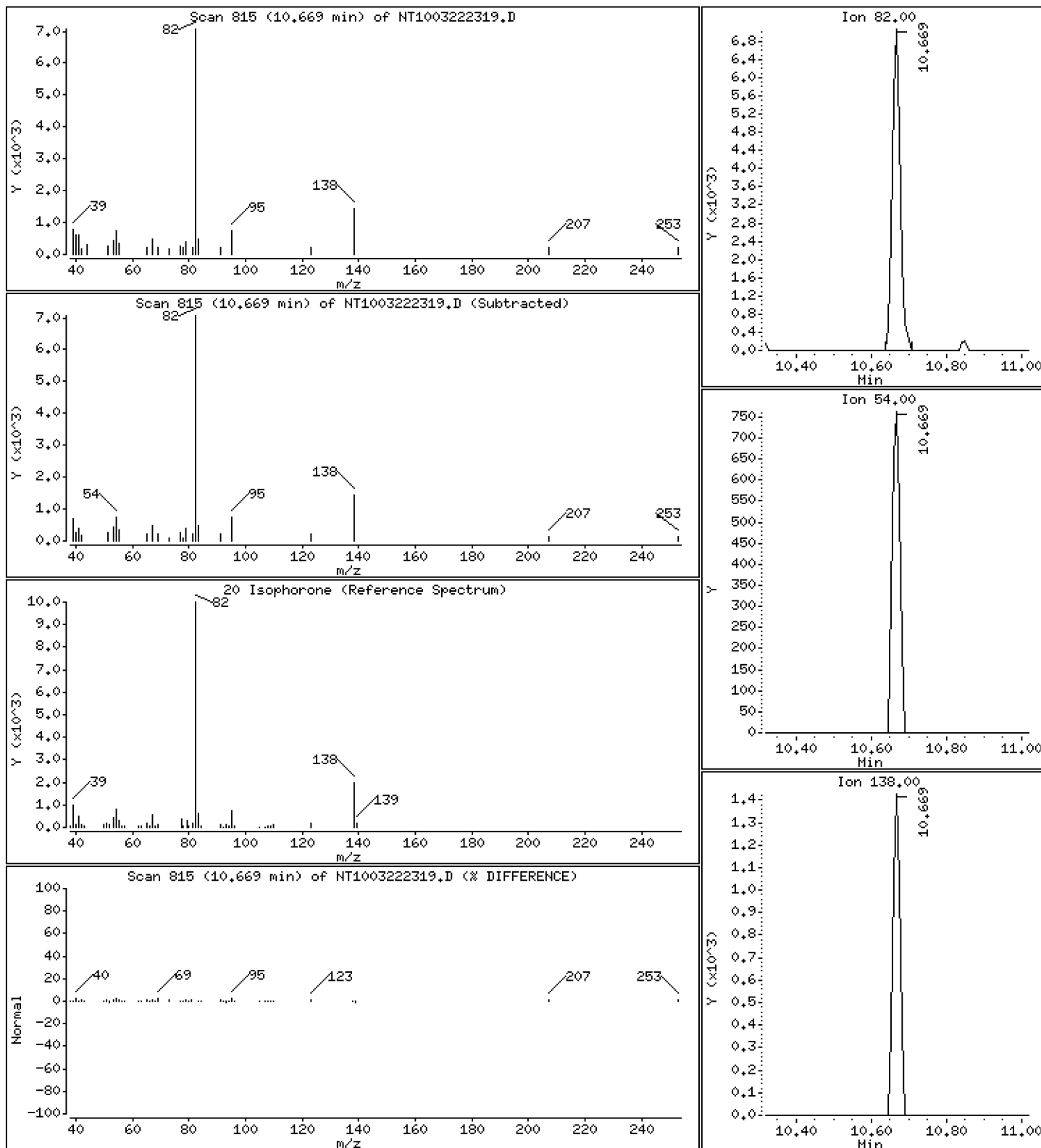
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

20 Isophorone

Concentration: 0.1780 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

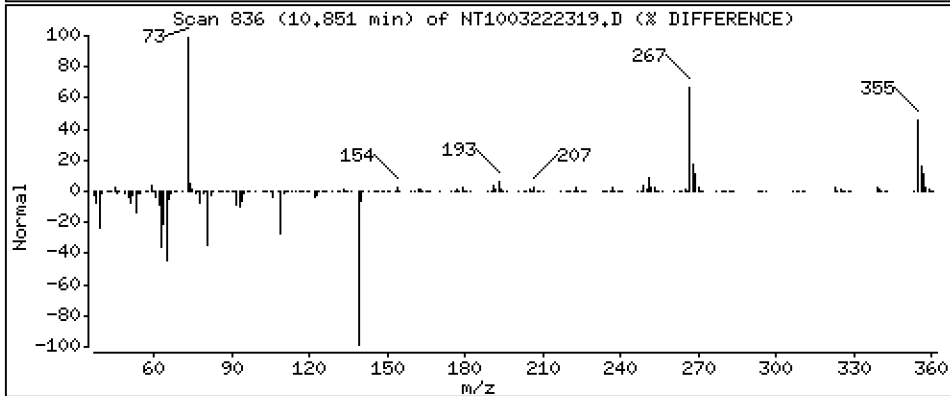
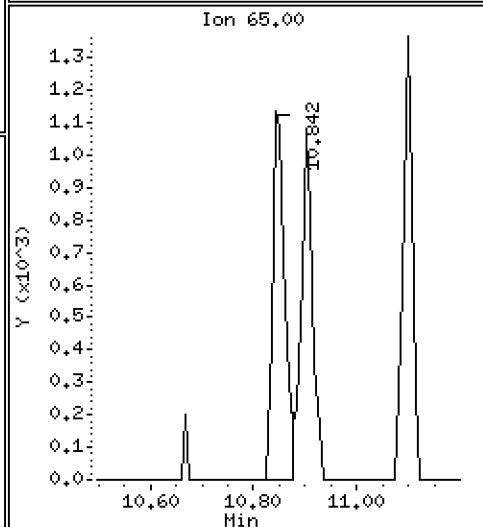
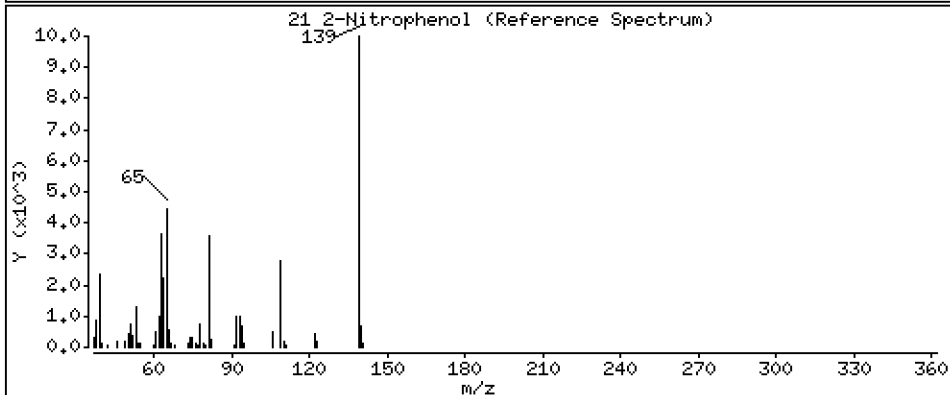
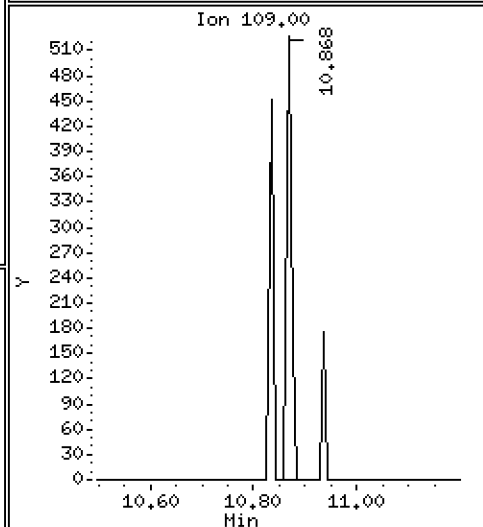
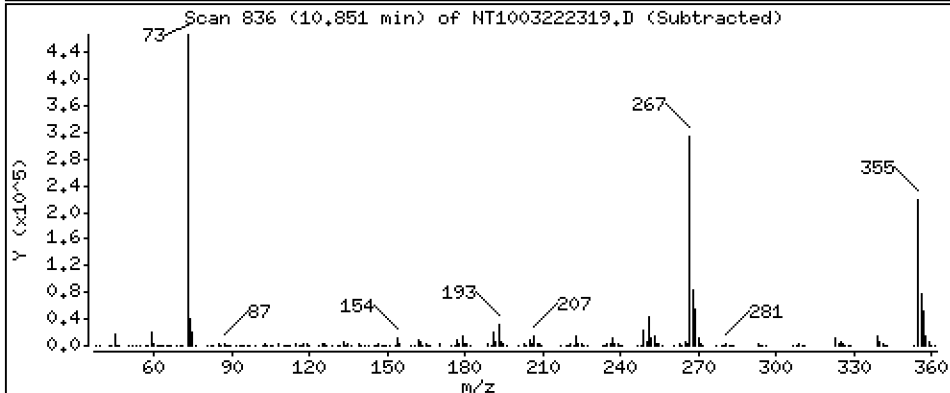
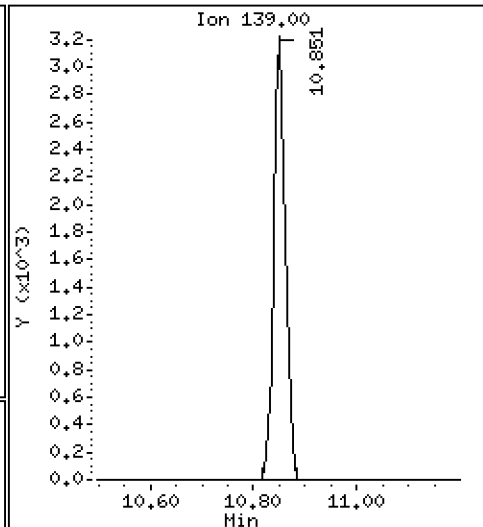
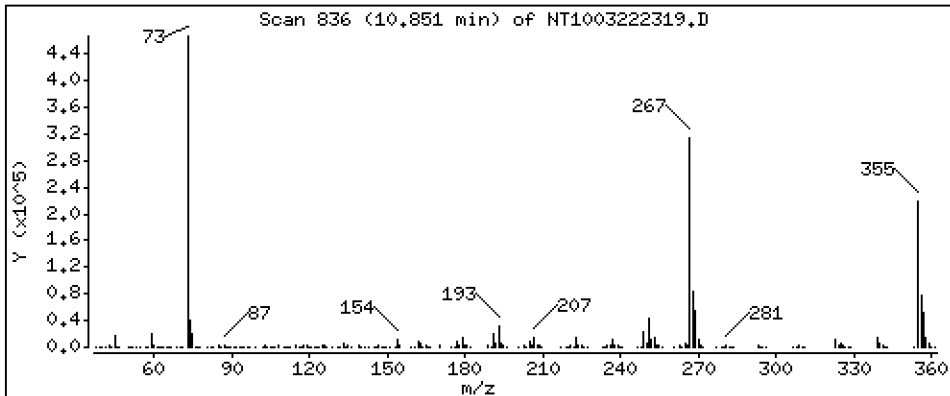
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

21 2-Nitrophenol

Concentration: 0,2258 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

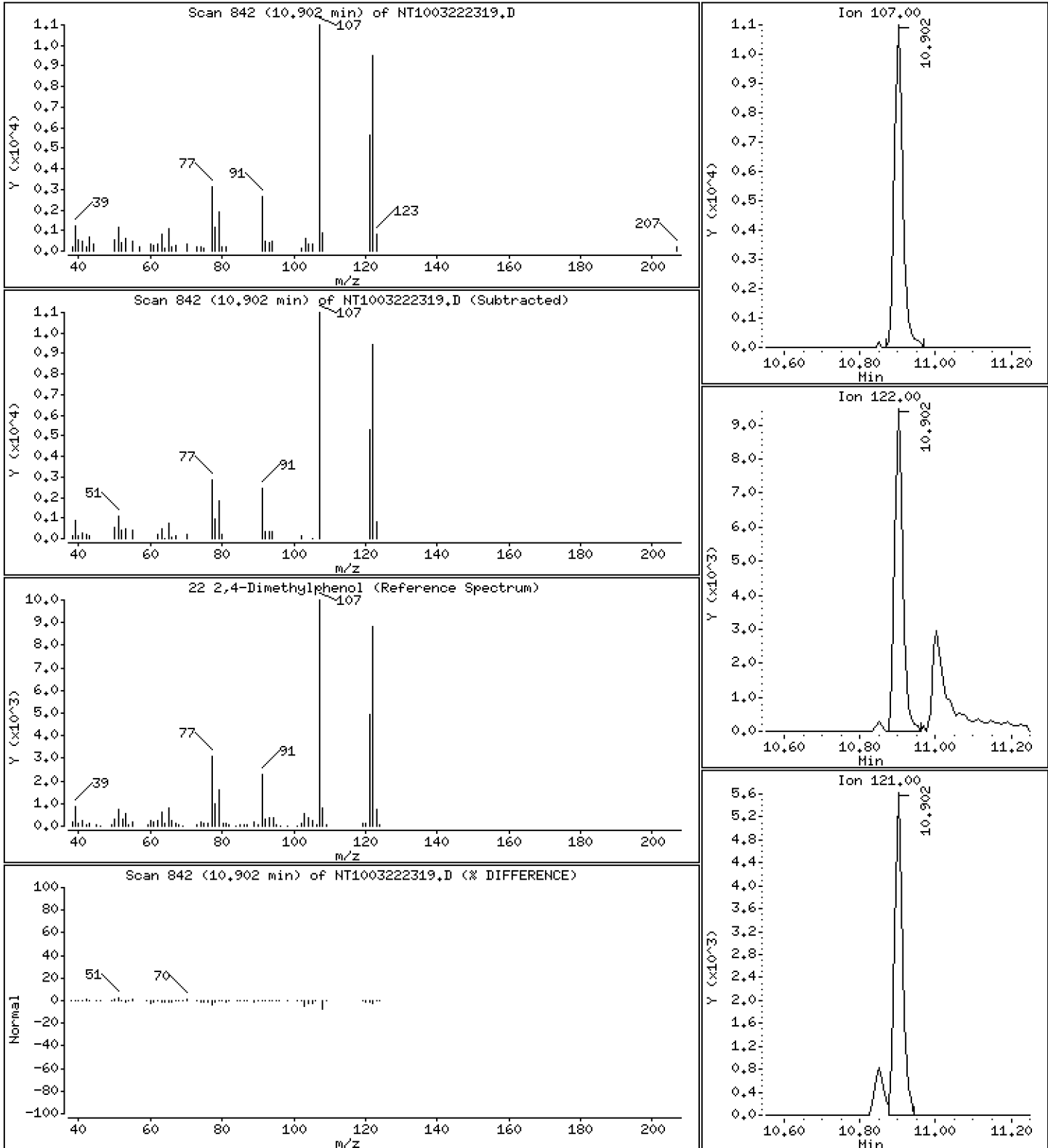
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 0,3865 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

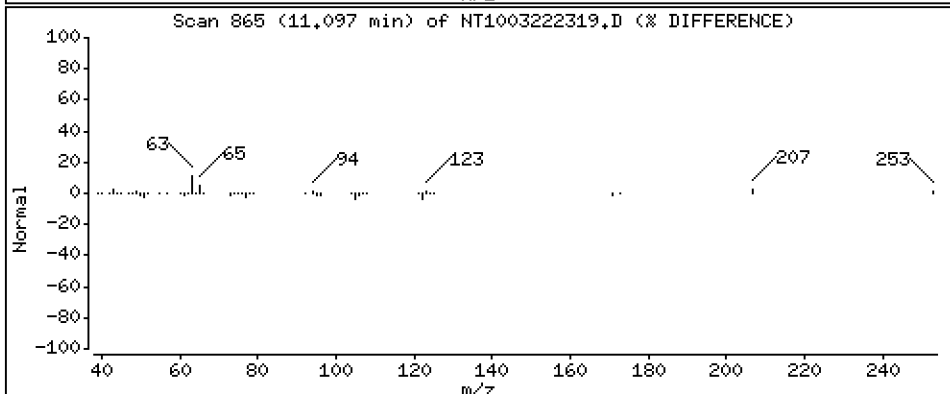
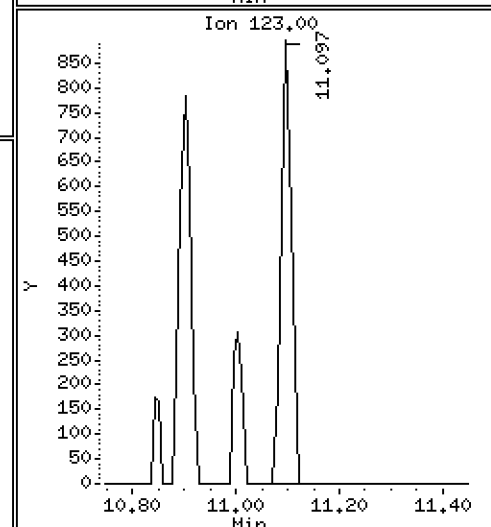
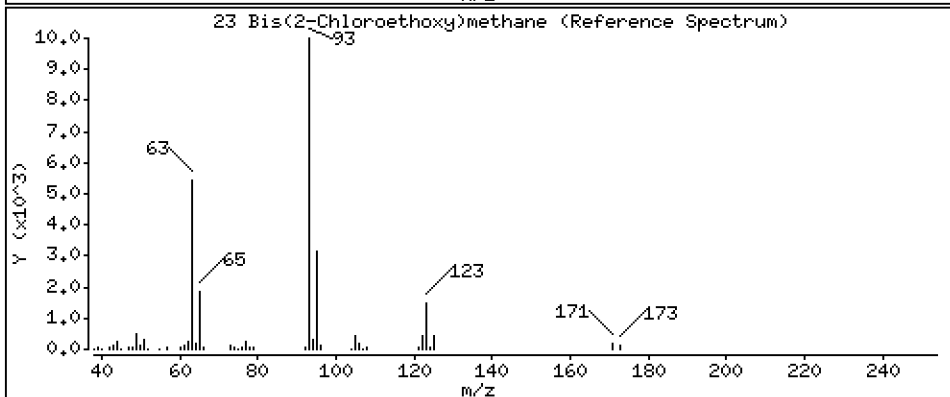
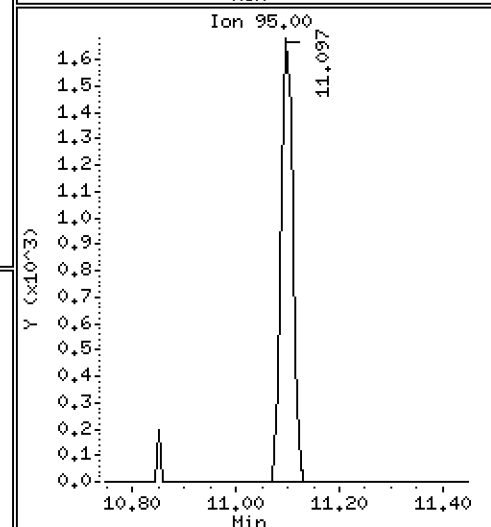
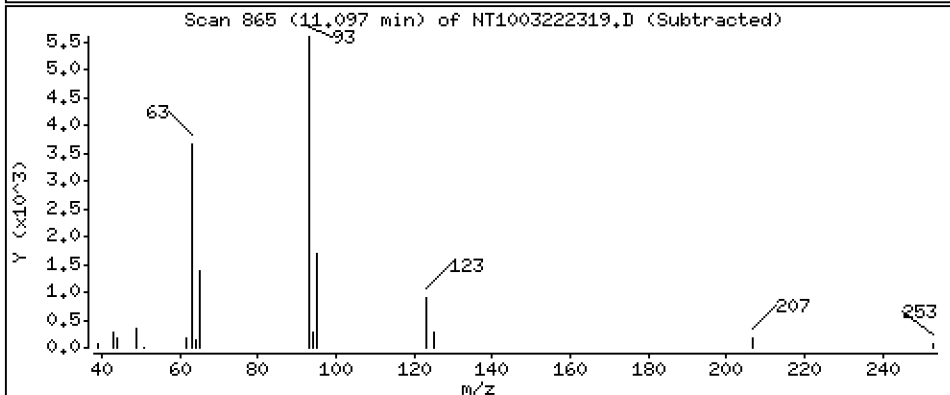
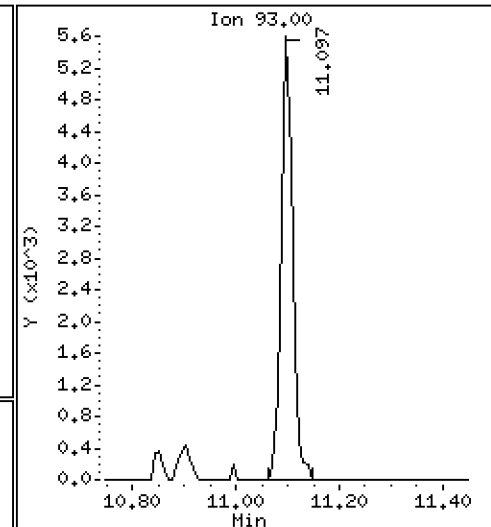
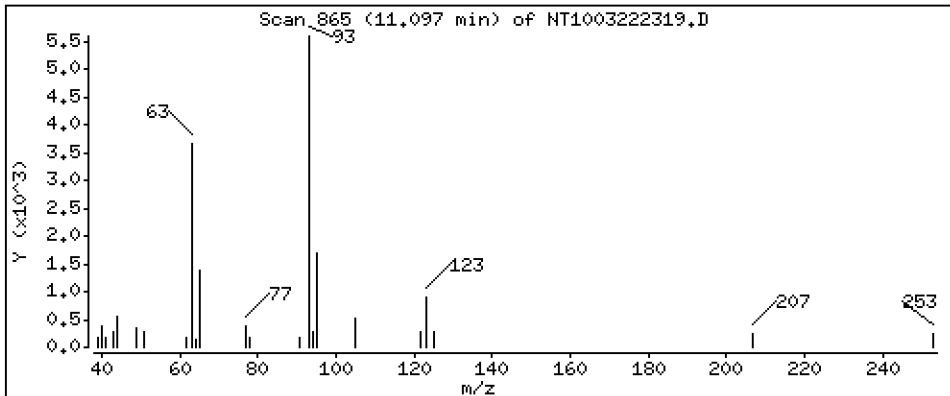
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

23 Bis(2-Chloroethoxy)methane

Concentration: 0,2089 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

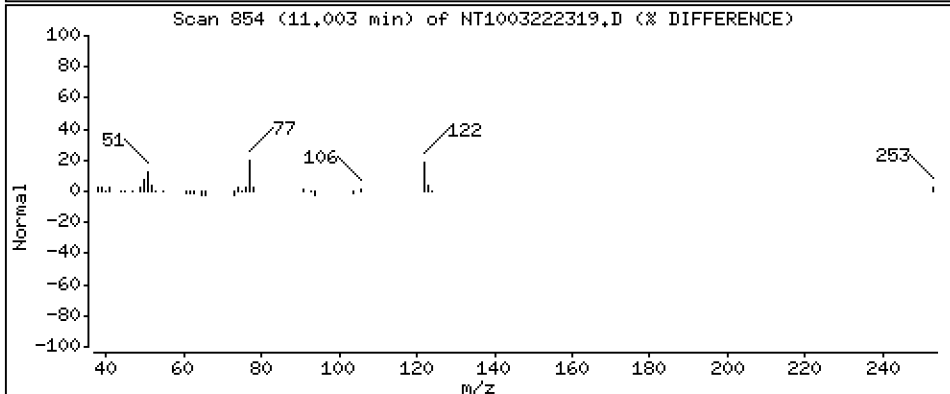
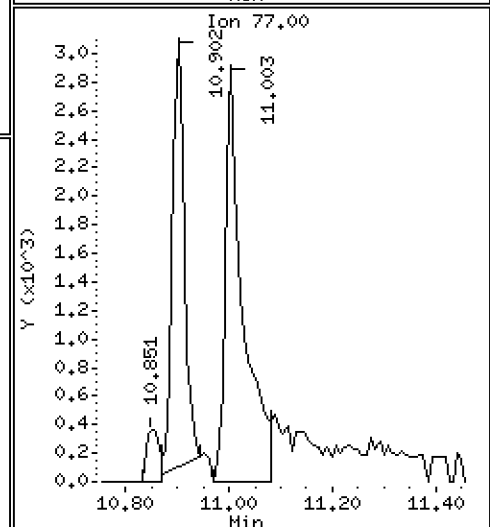
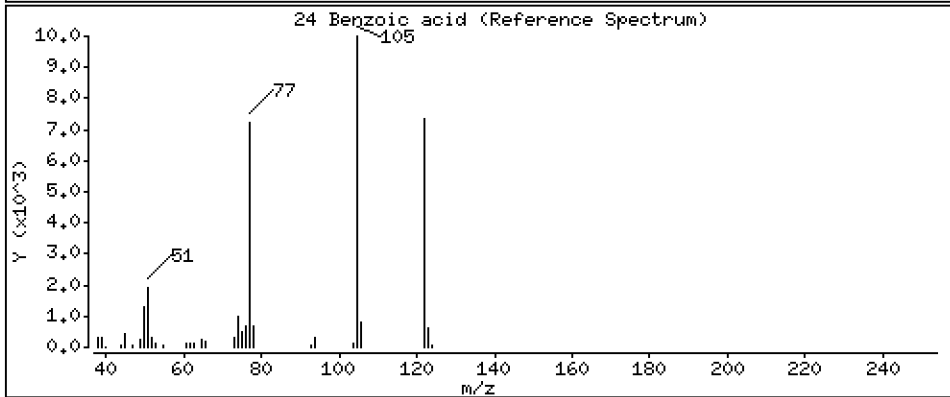
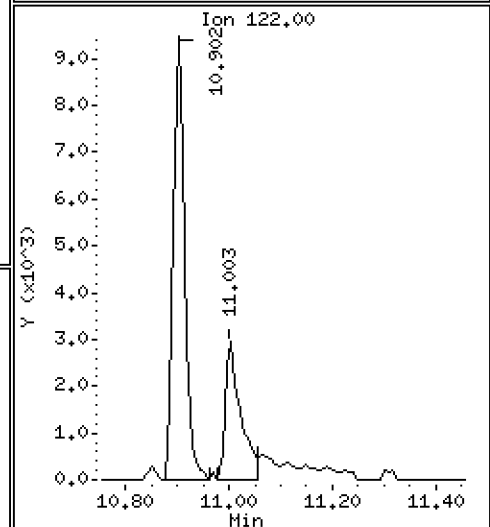
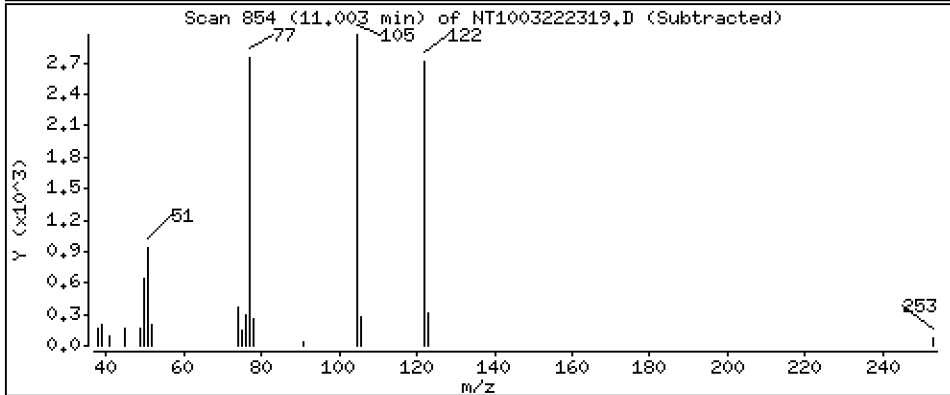
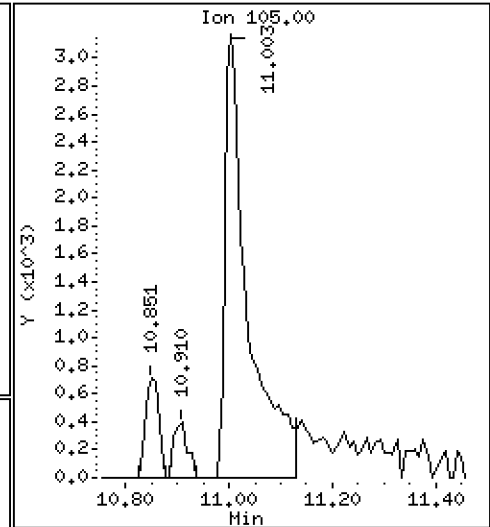
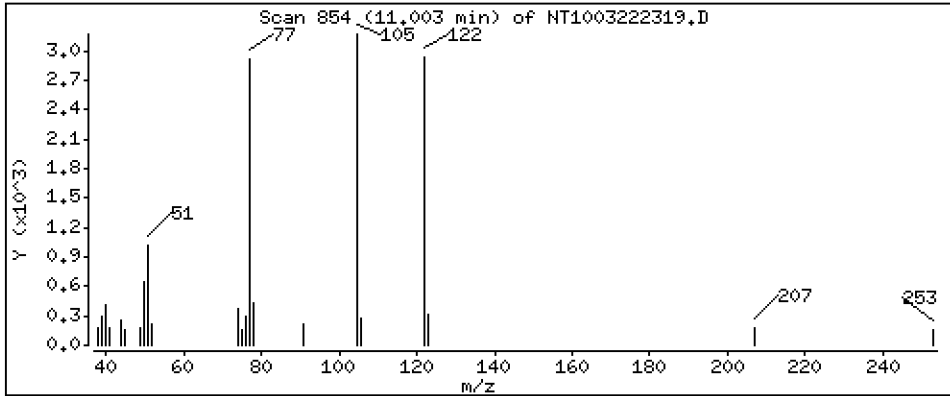
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

24 Benzoic acid

Concentration: 0,4164 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

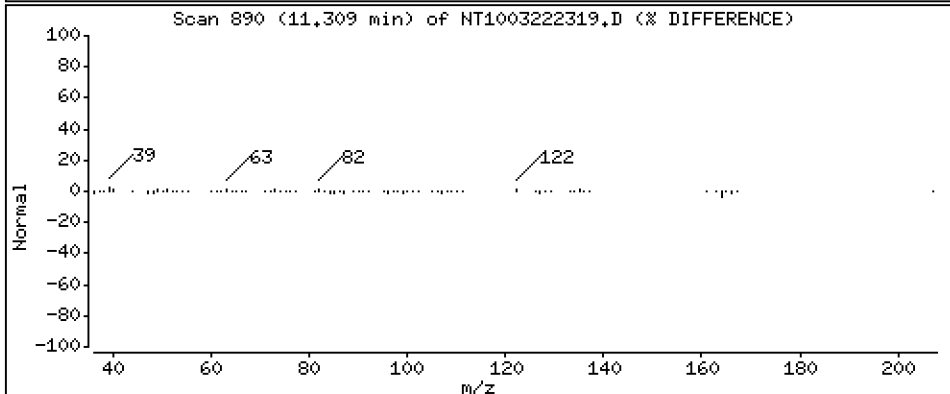
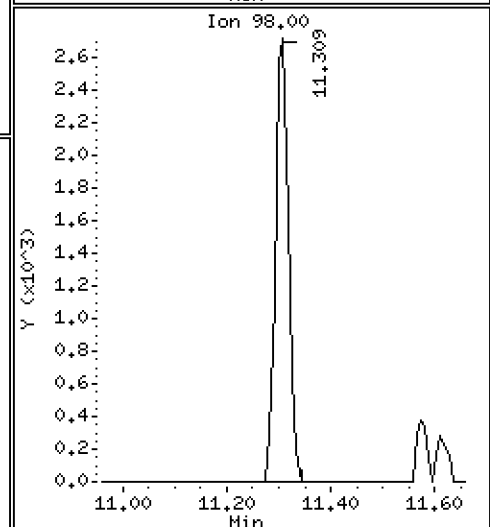
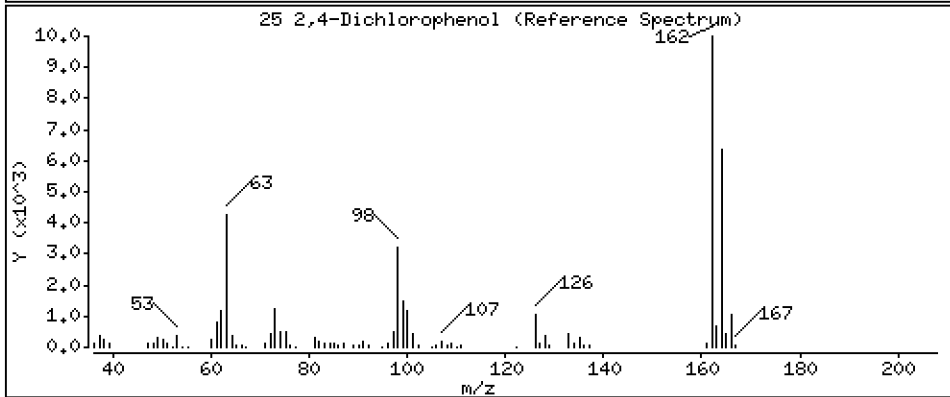
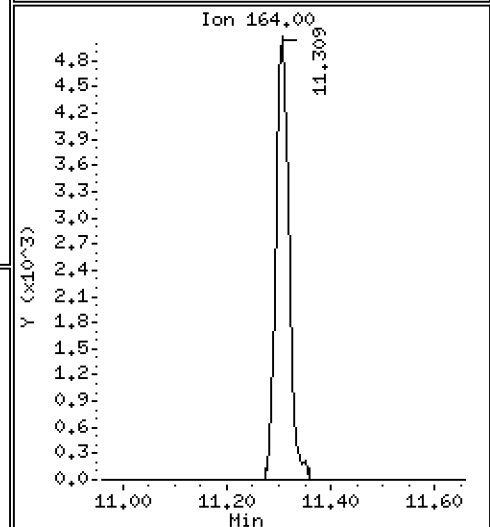
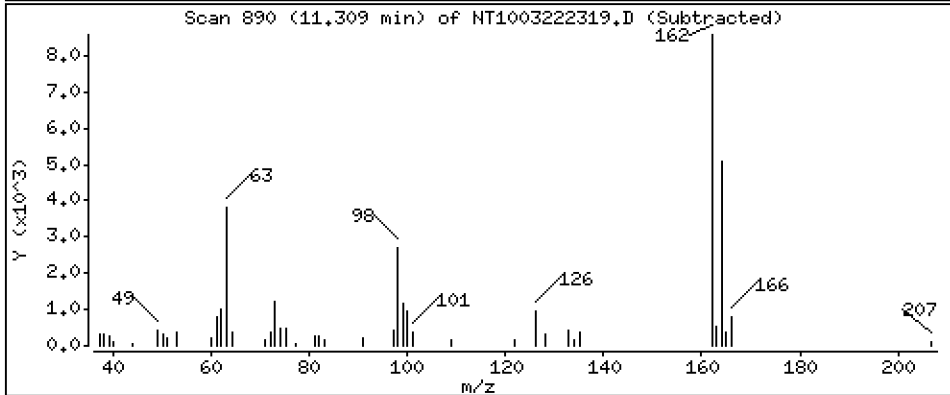
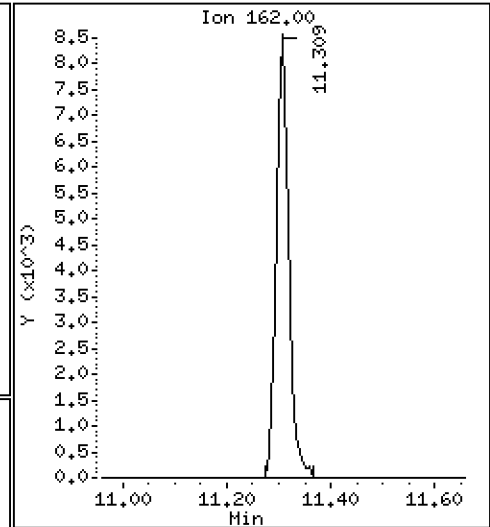
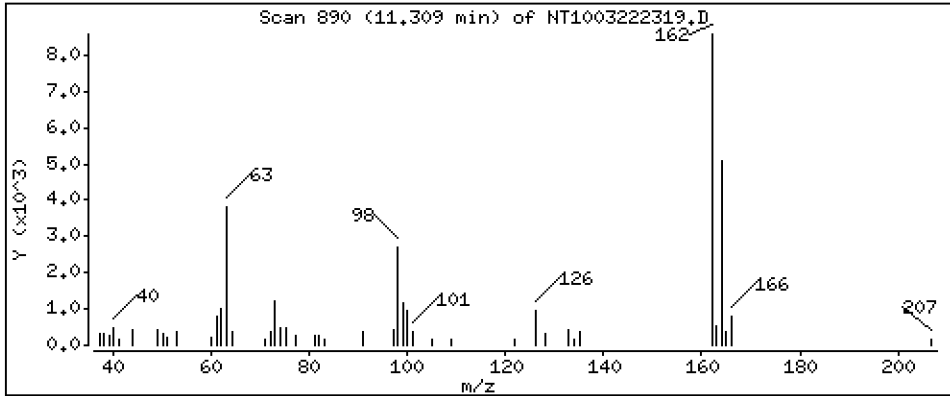
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 0,4020 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

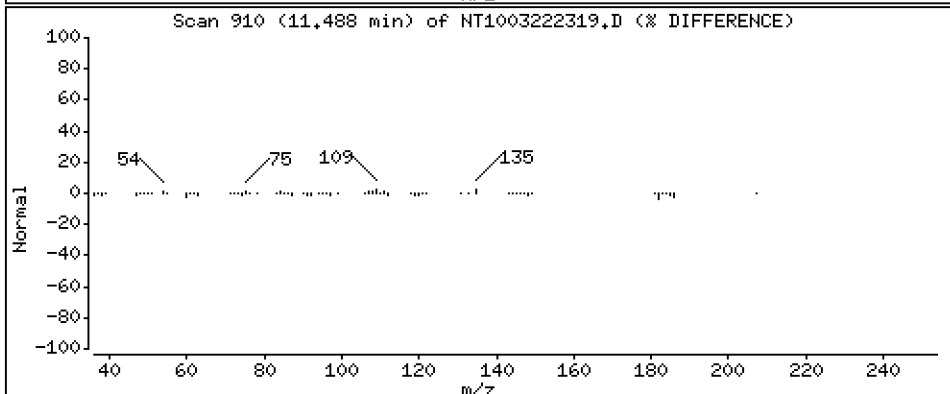
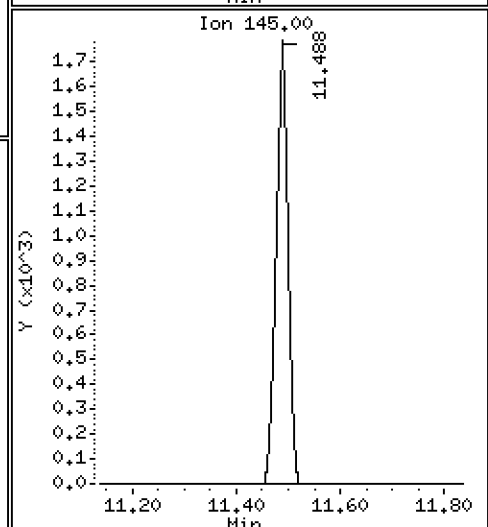
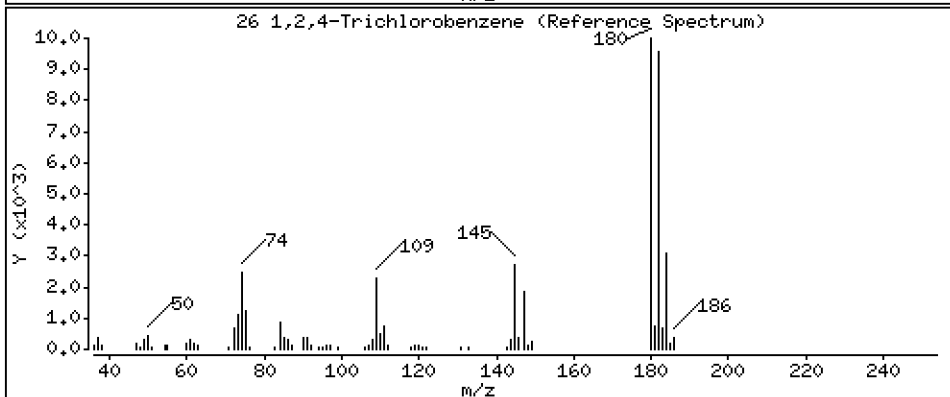
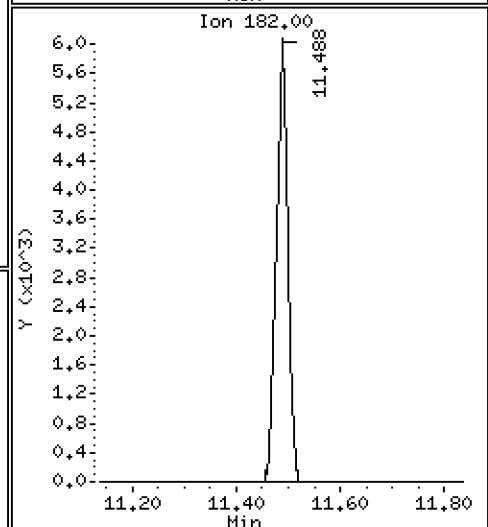
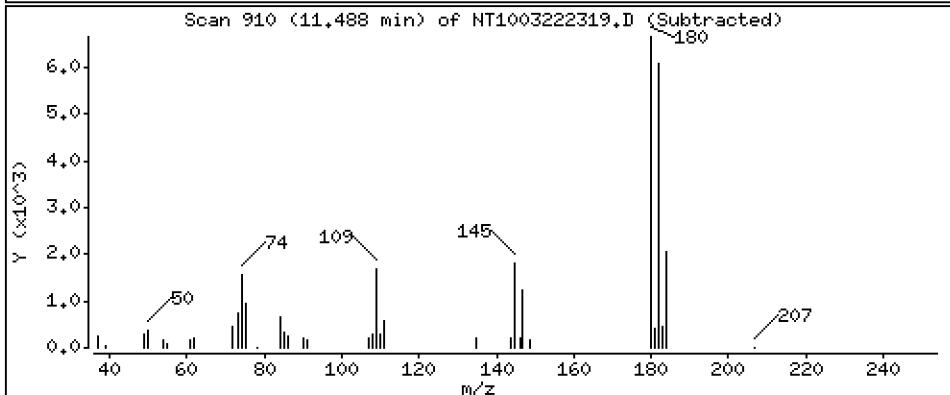
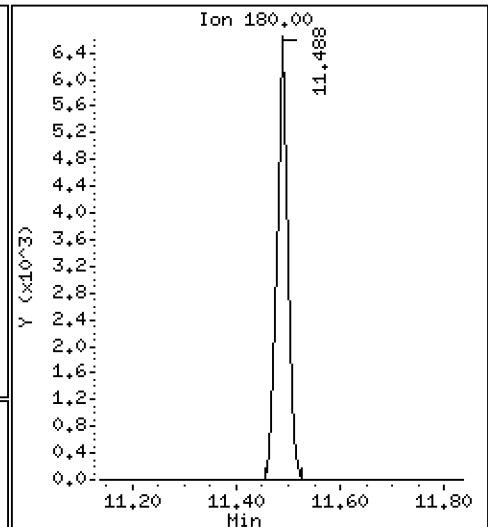
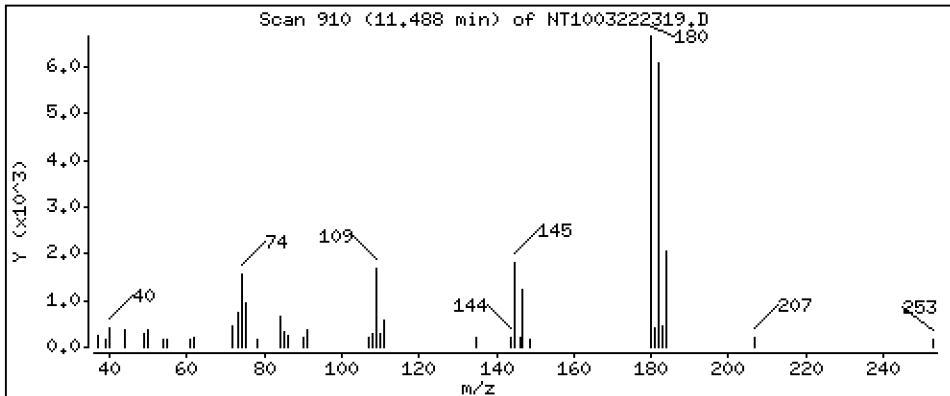
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 0,2281 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

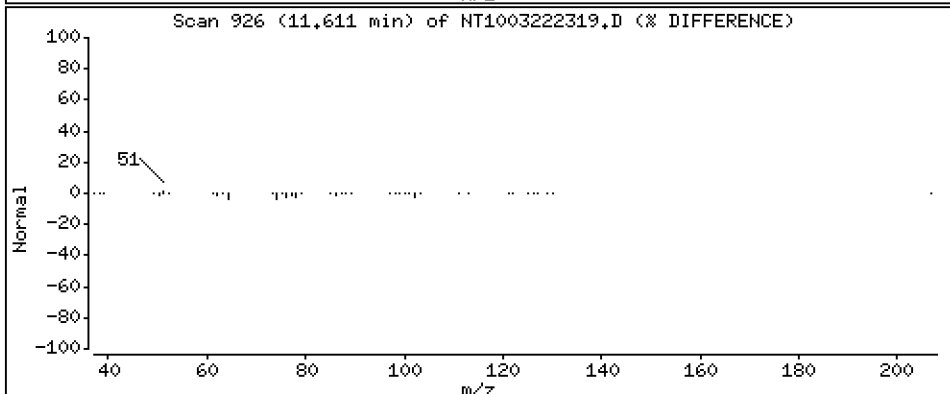
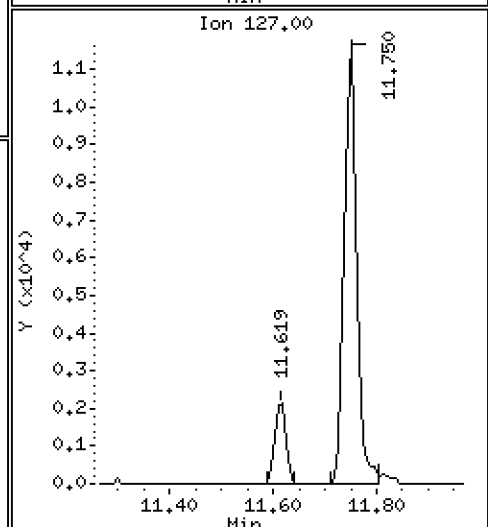
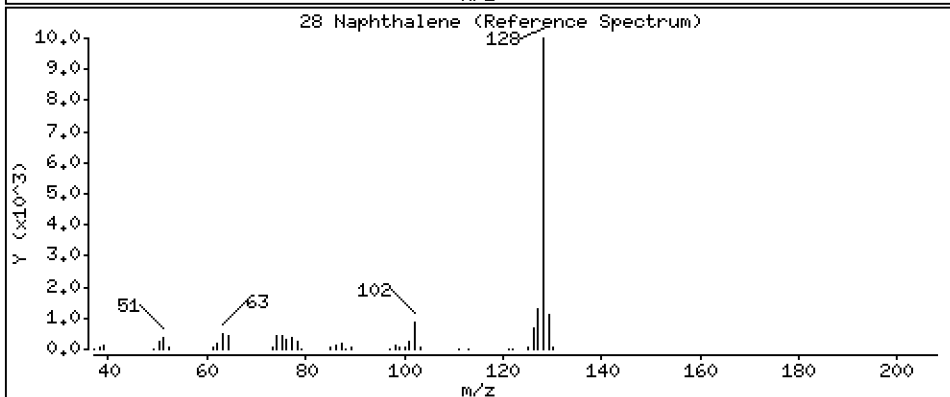
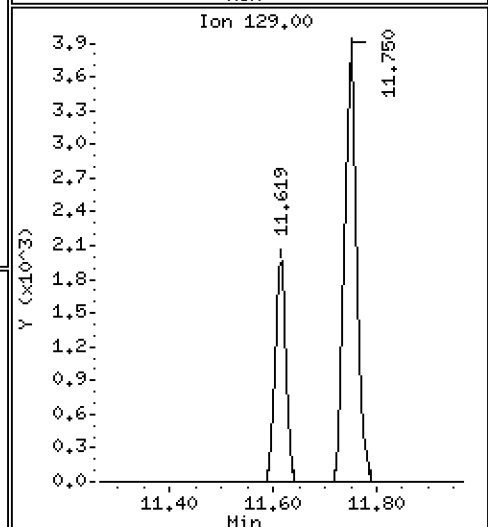
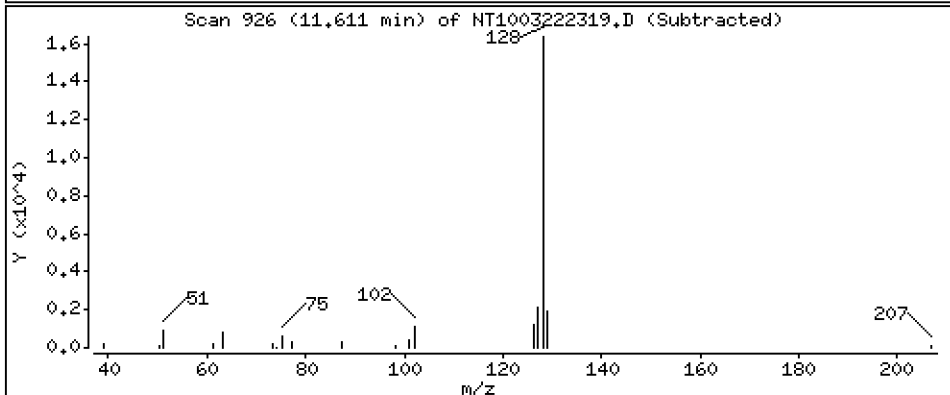
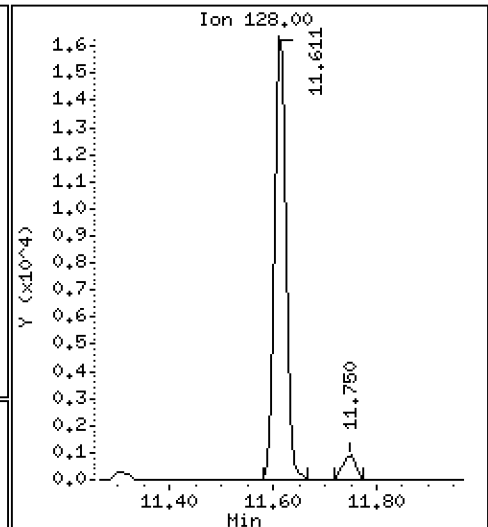
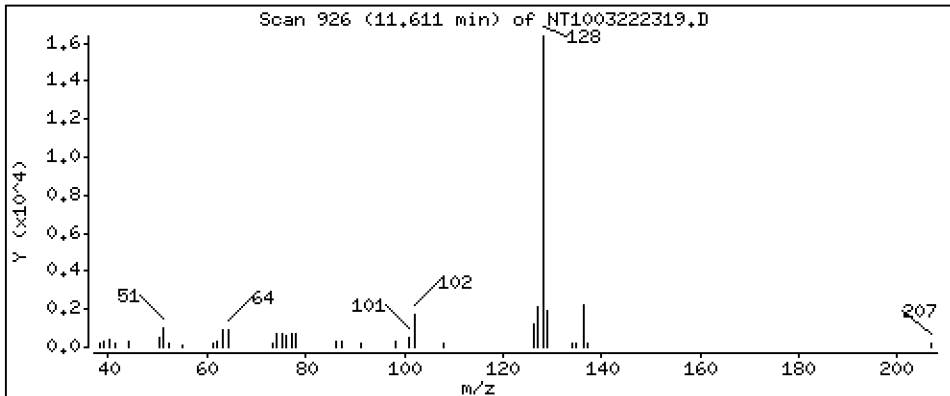
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 0,2079 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

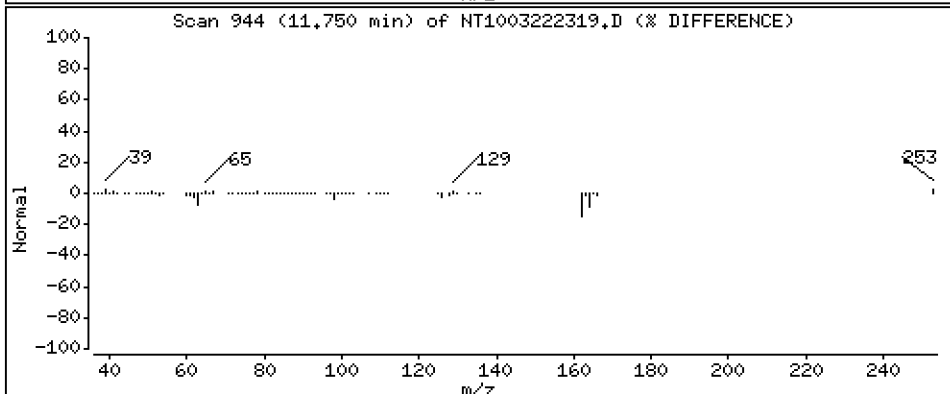
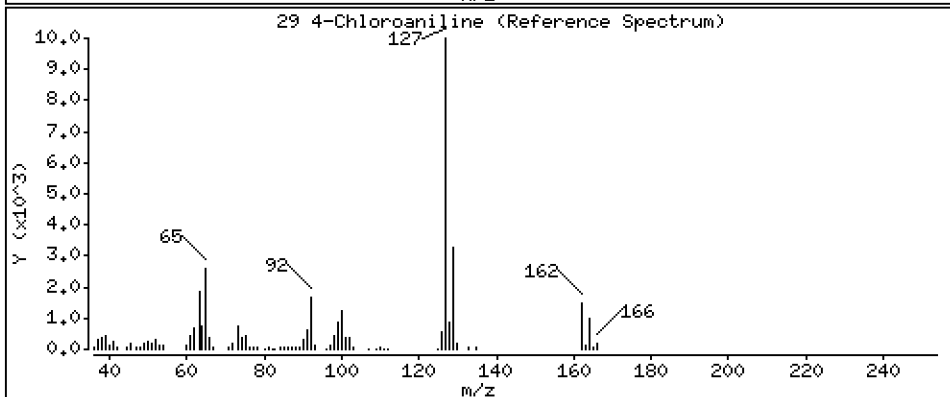
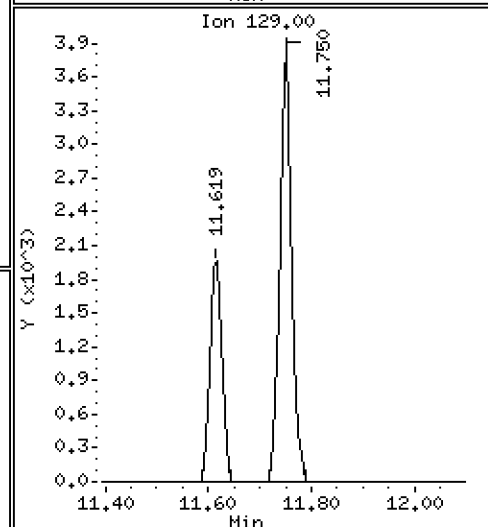
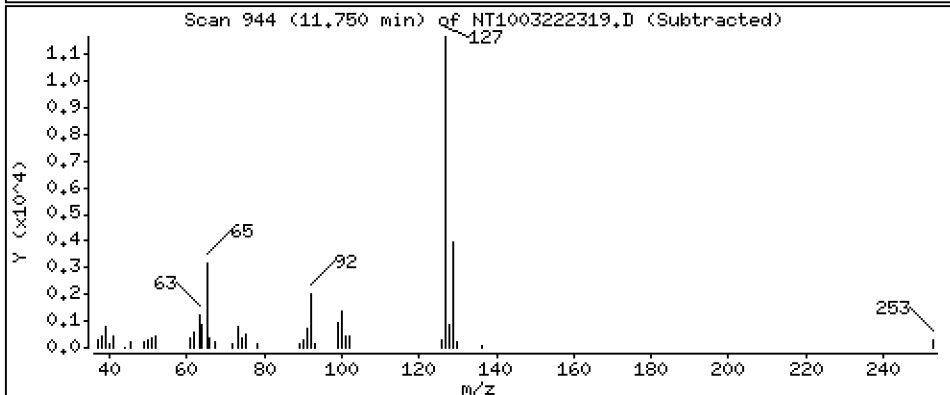
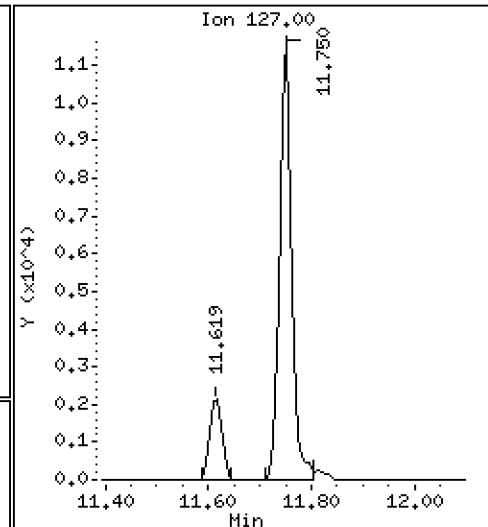
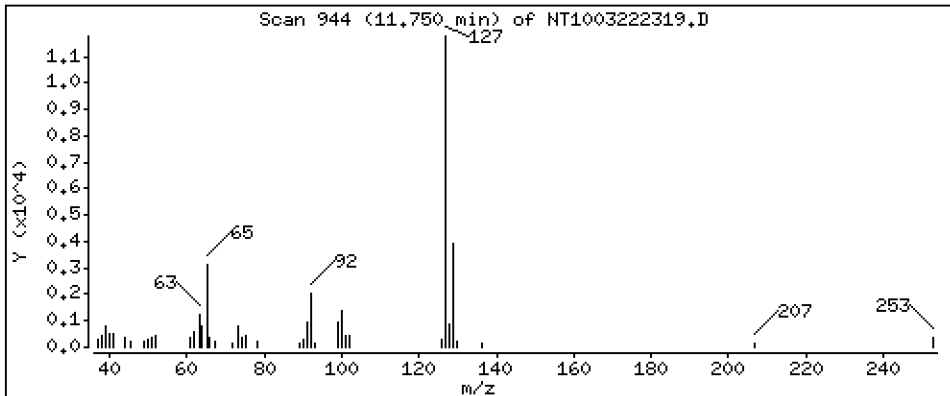
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

29 4-Chloroaniline

Concentration: 0,3783 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

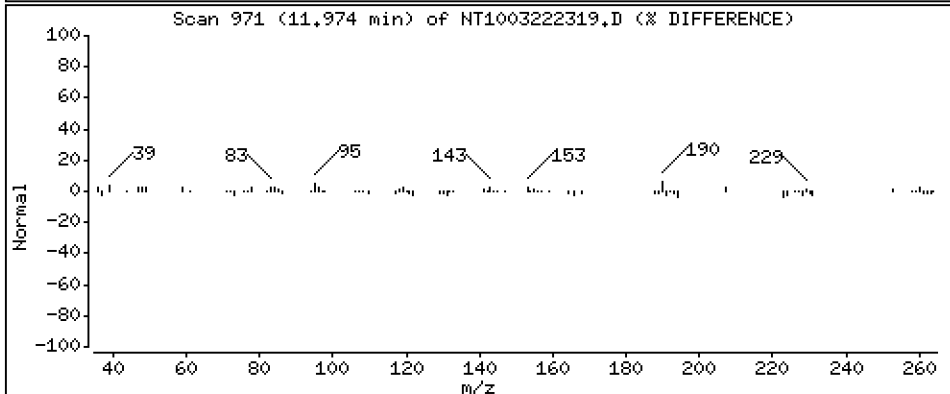
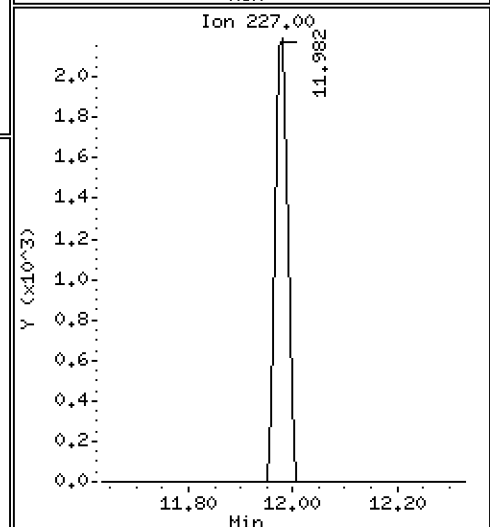
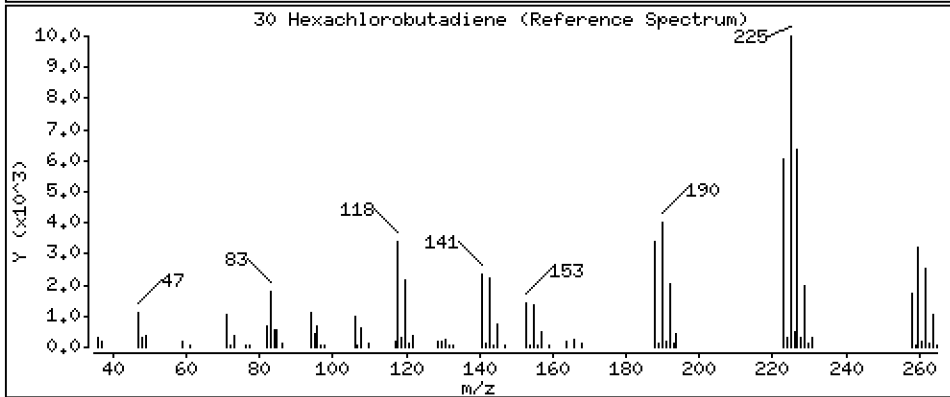
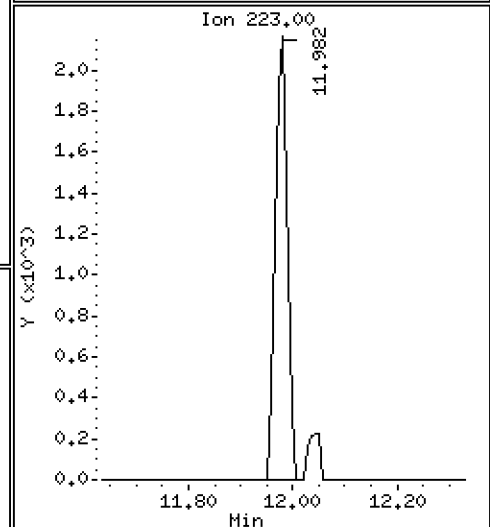
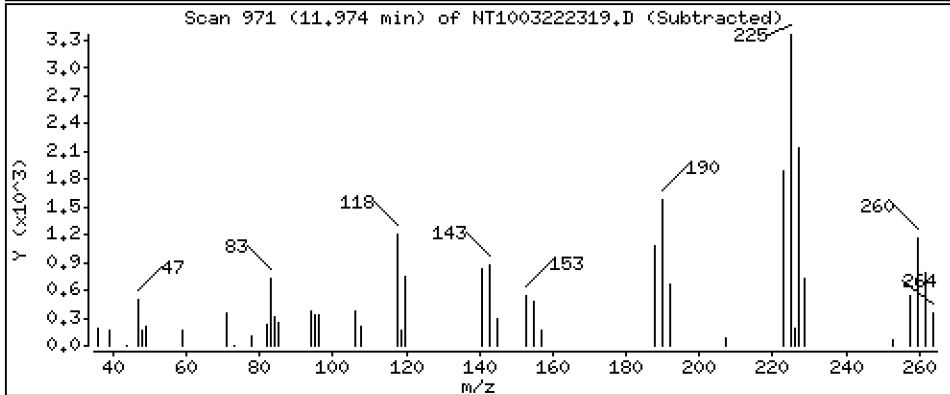
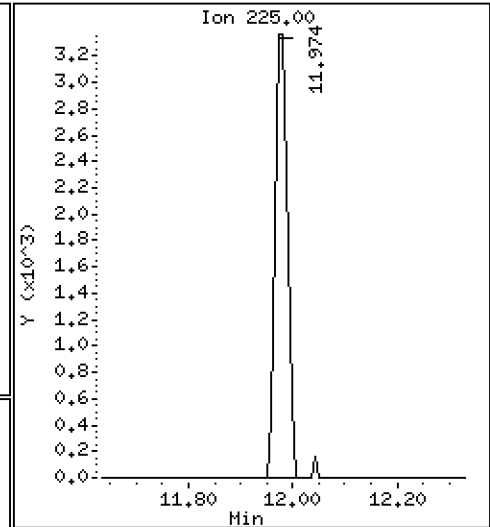
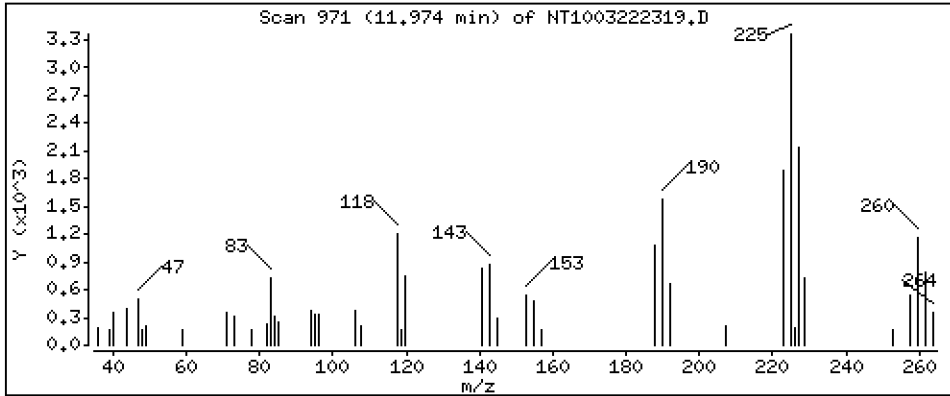
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

30 Hexachlorobutadiene

Concentration: 0.2194 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

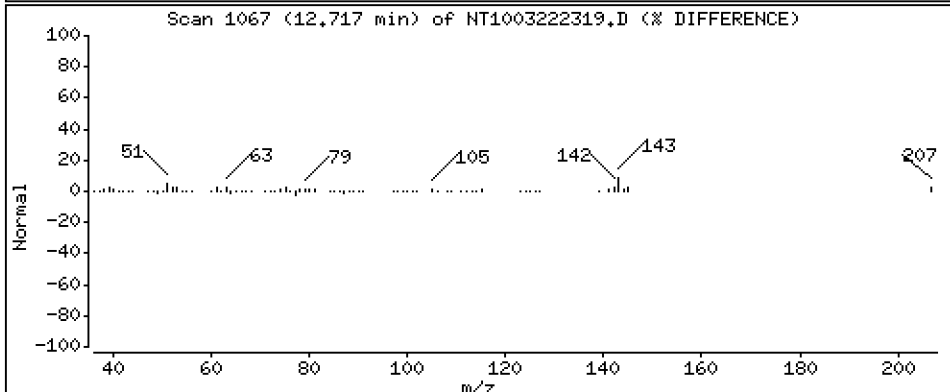
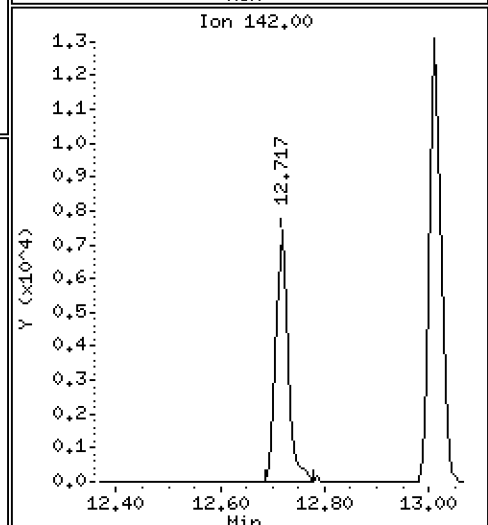
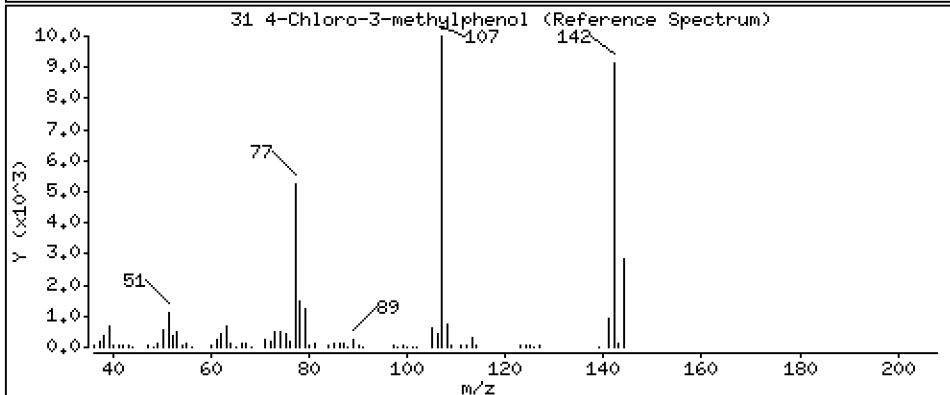
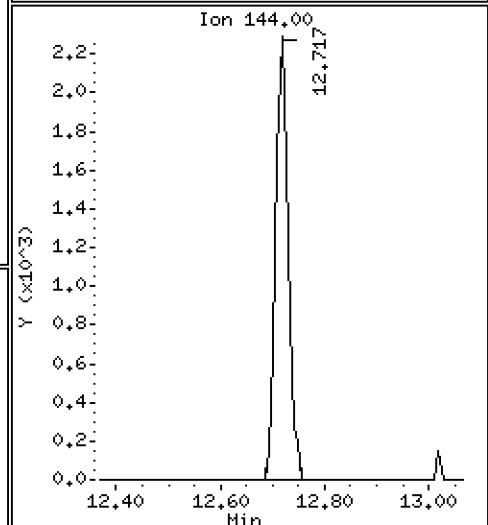
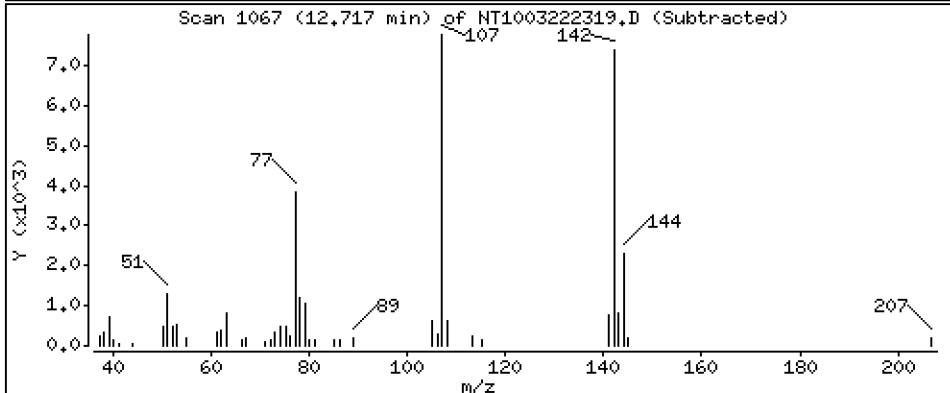
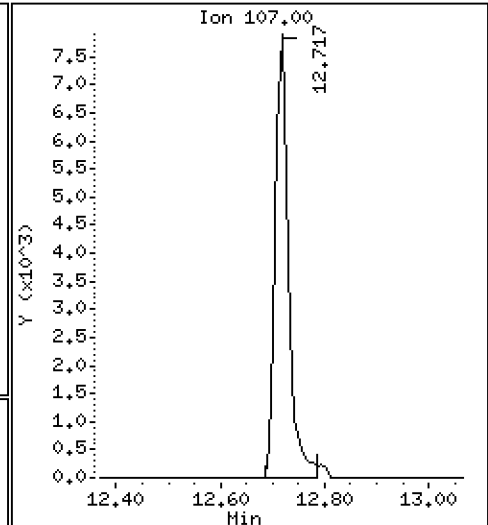
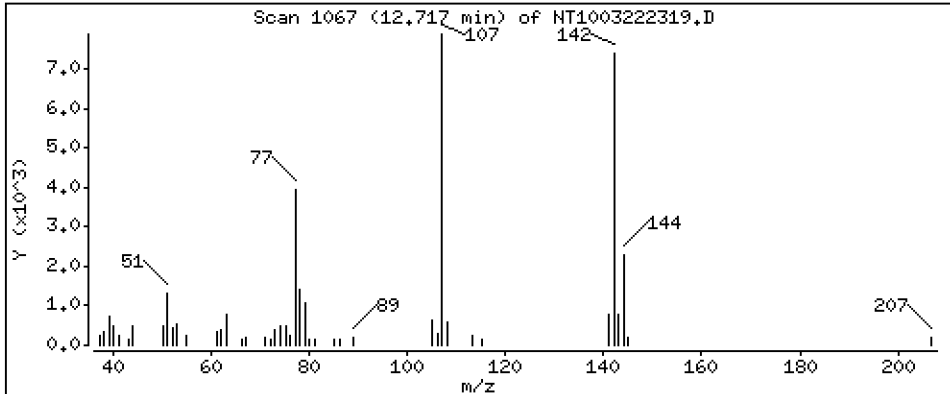
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

31 4-Chloro-3-methylphenol

Concentration: 0,3500 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

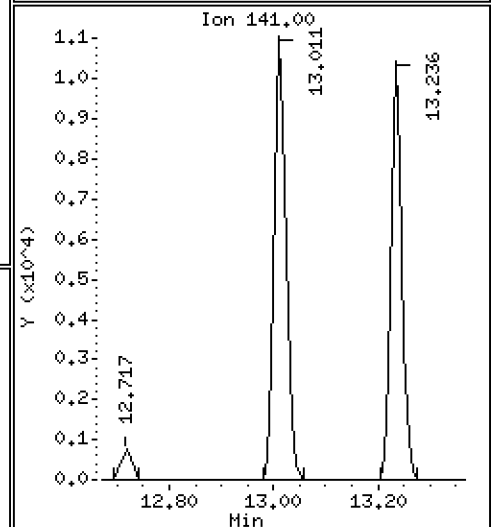
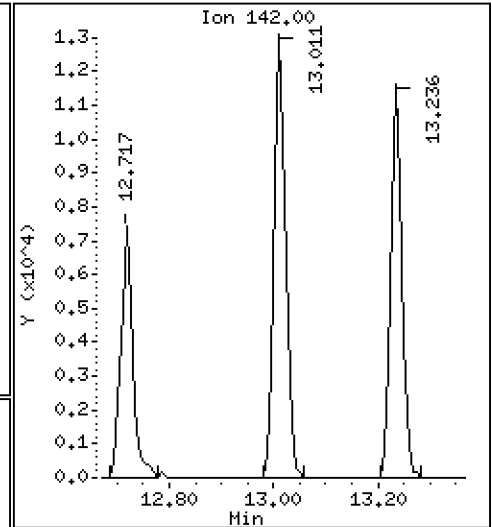
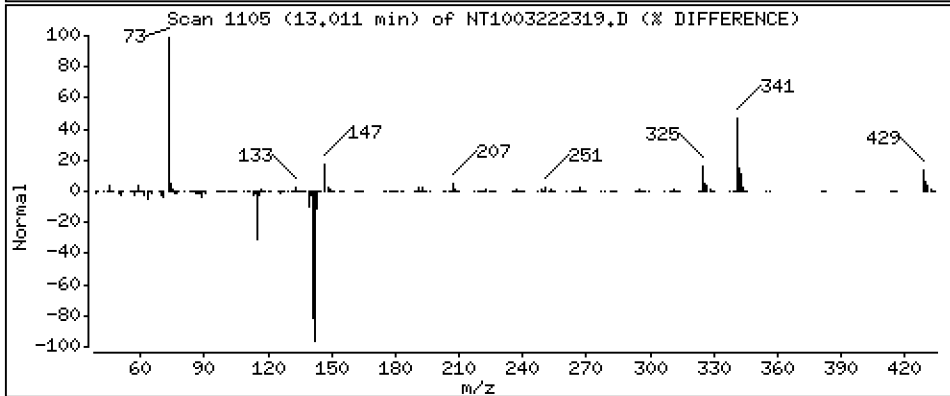
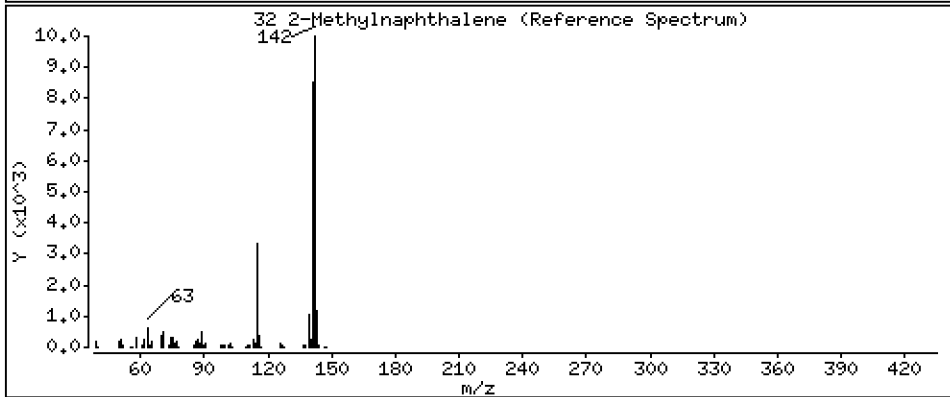
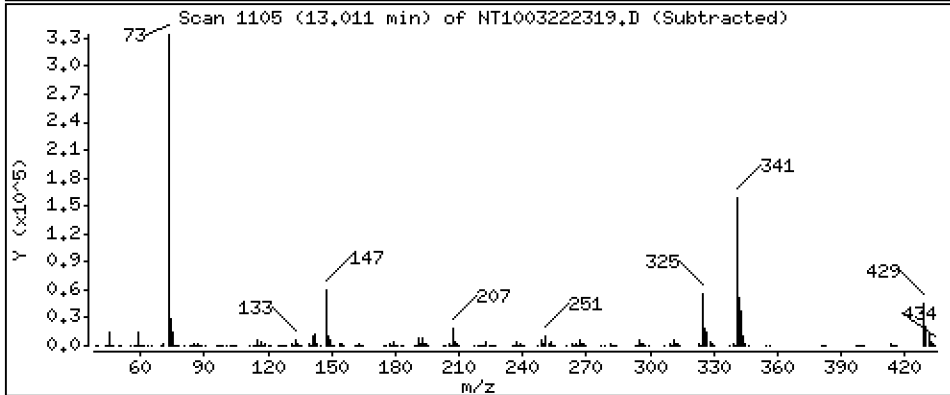
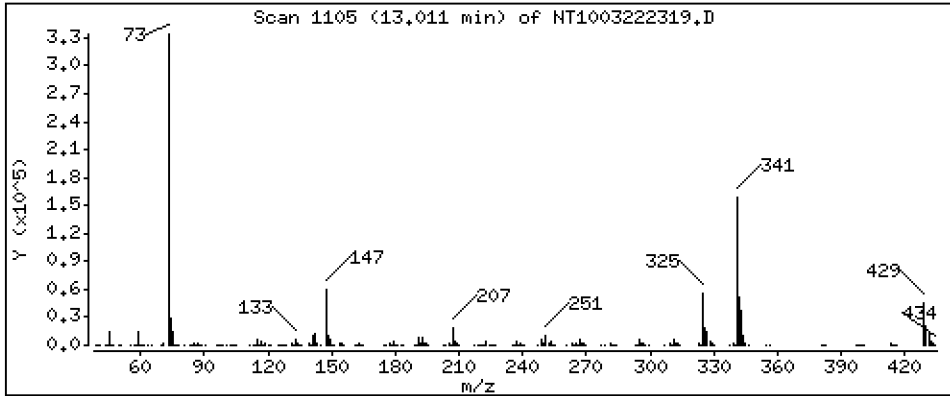
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 0,2137 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

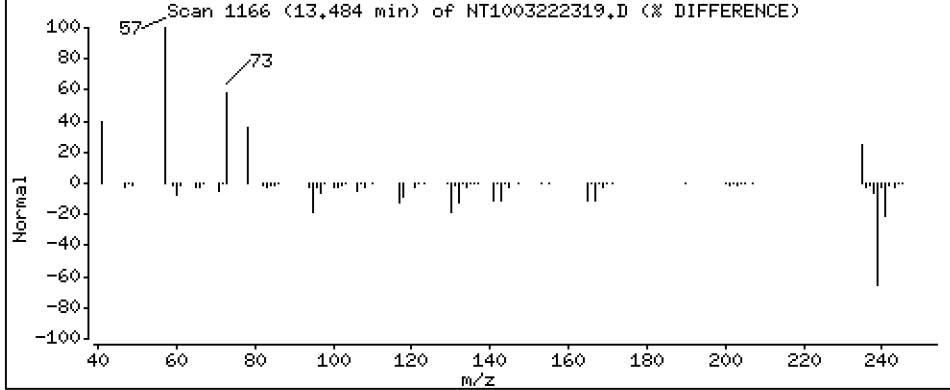
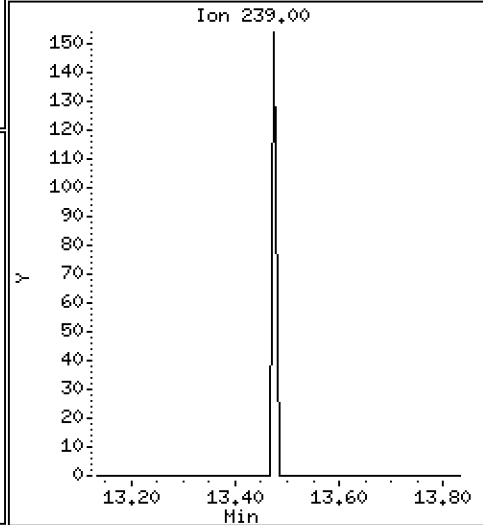
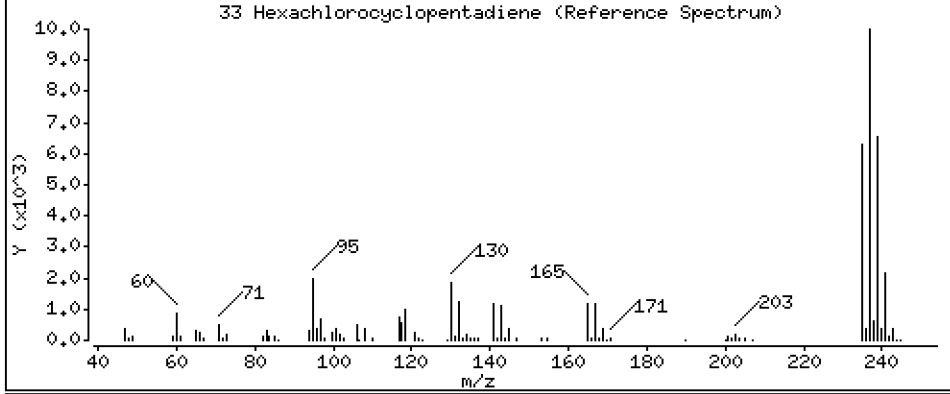
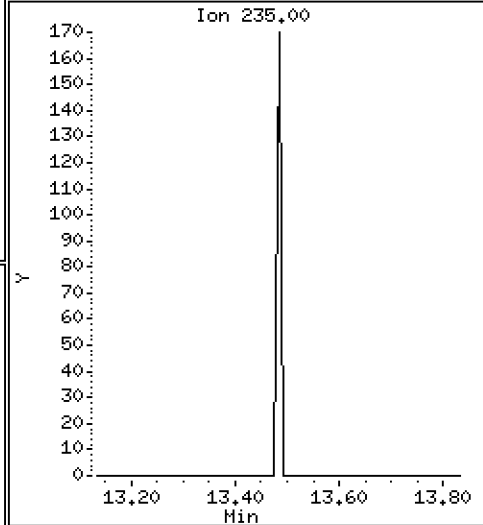
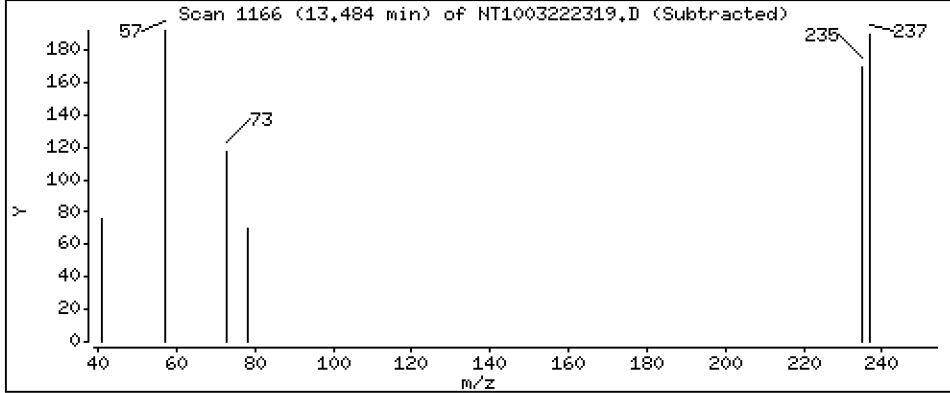
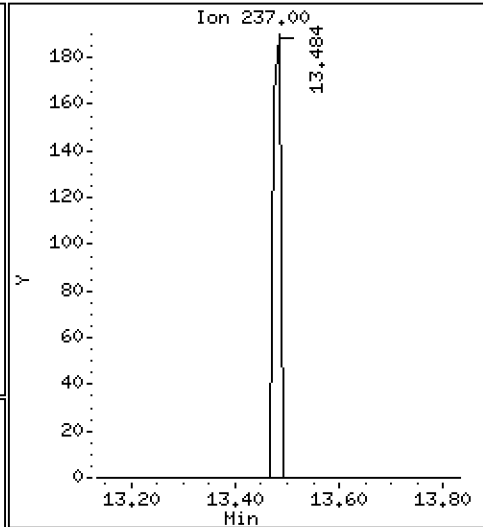
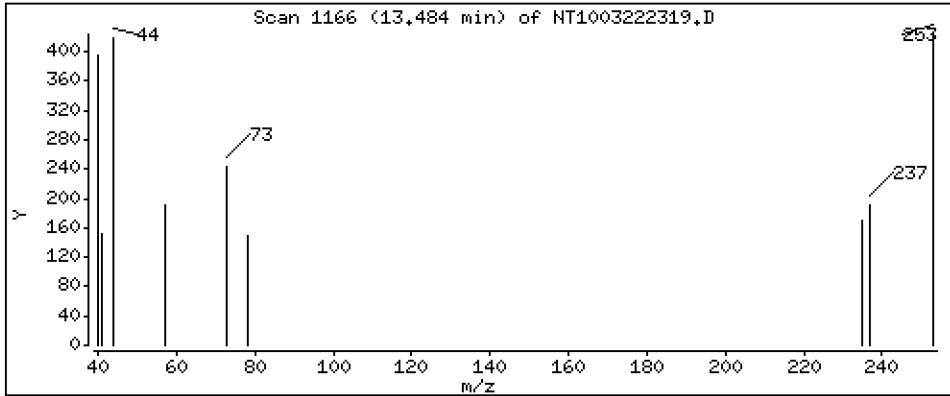
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

33 Hexachlorocyclopentadiene

Concentration: 0,006755 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

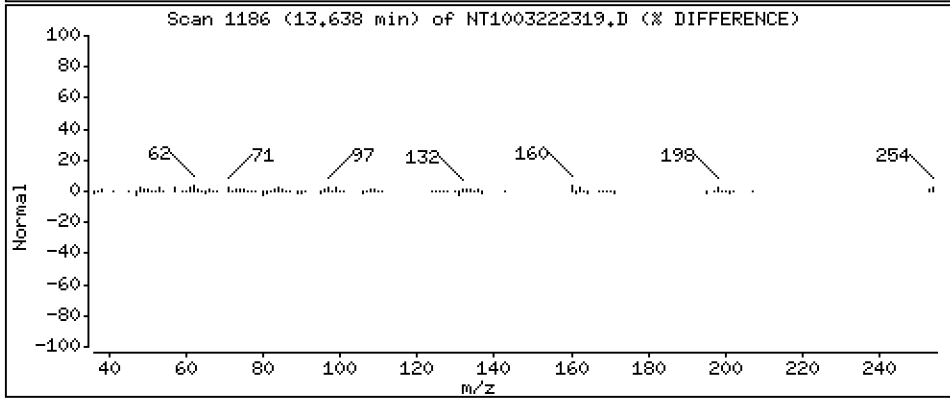
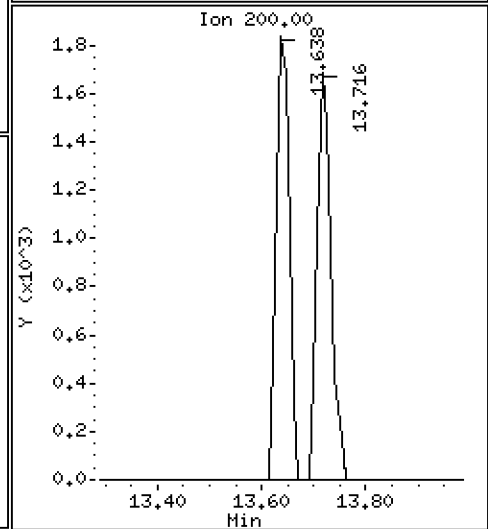
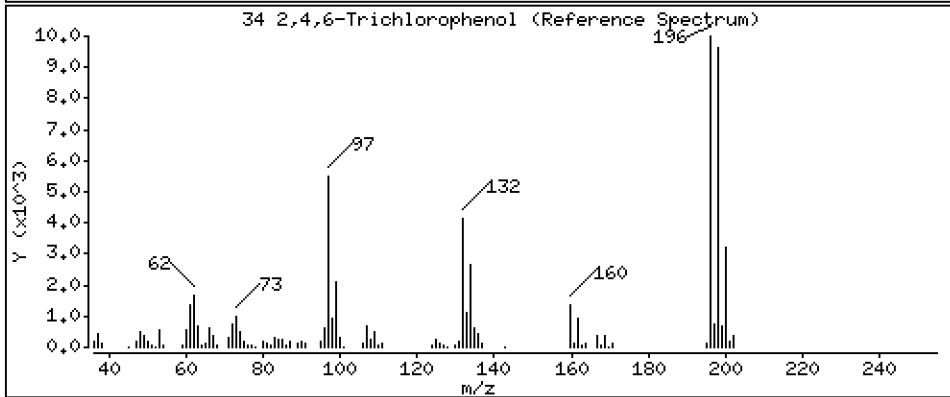
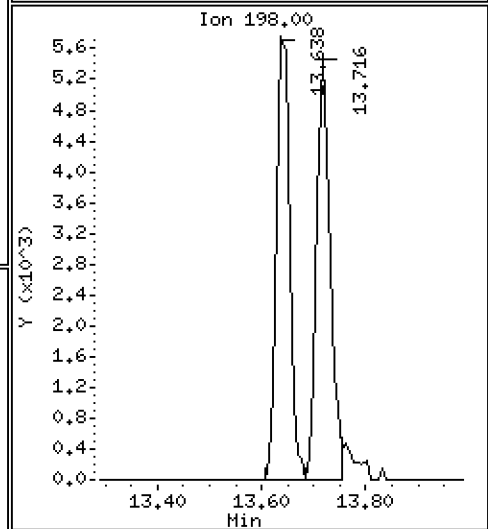
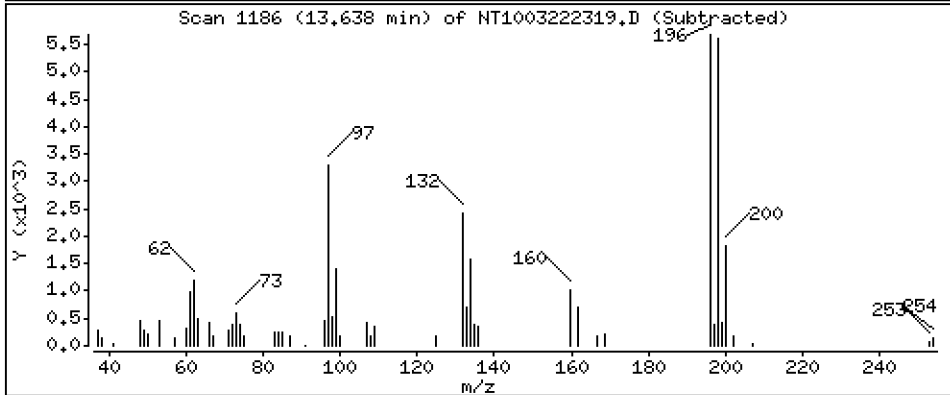
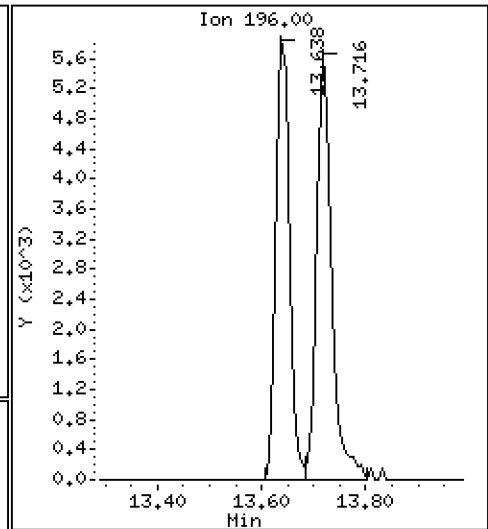
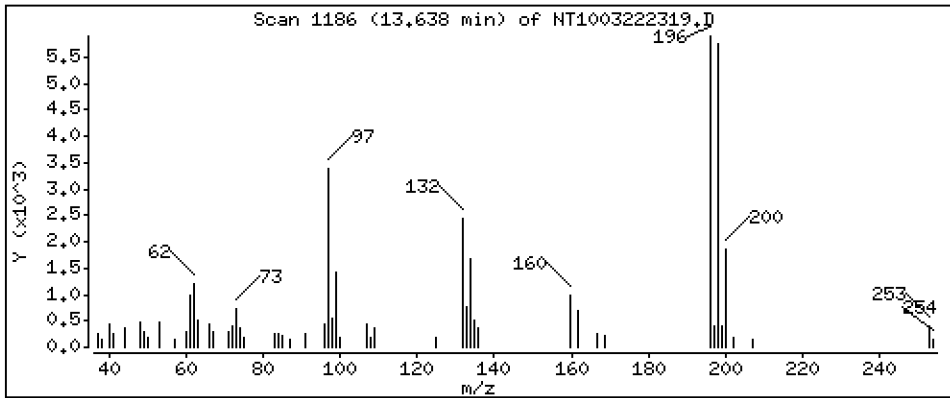
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

34 2,4,6-Trichlorophenol

Concentration: 0,3908 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

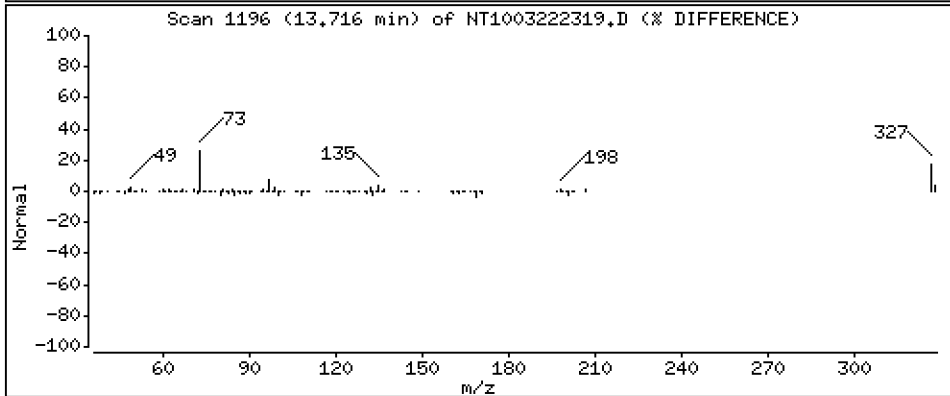
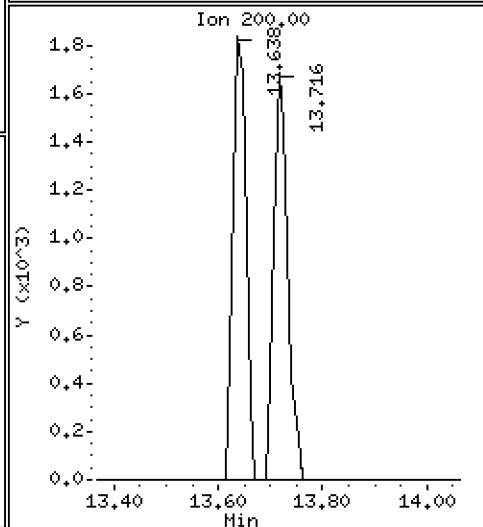
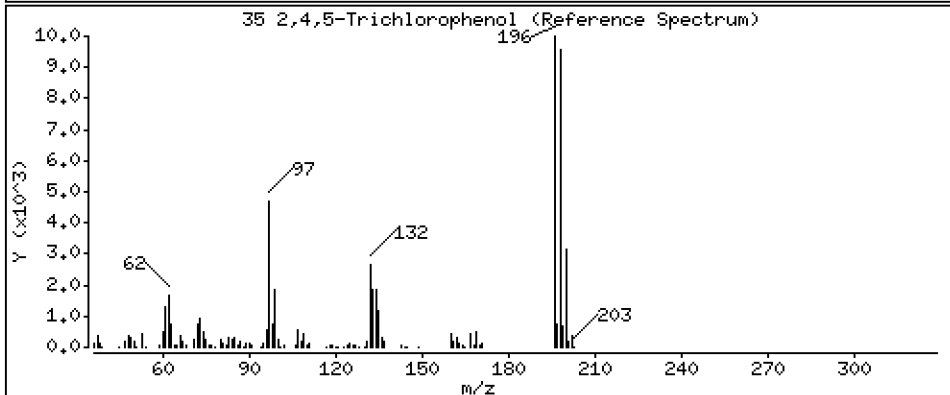
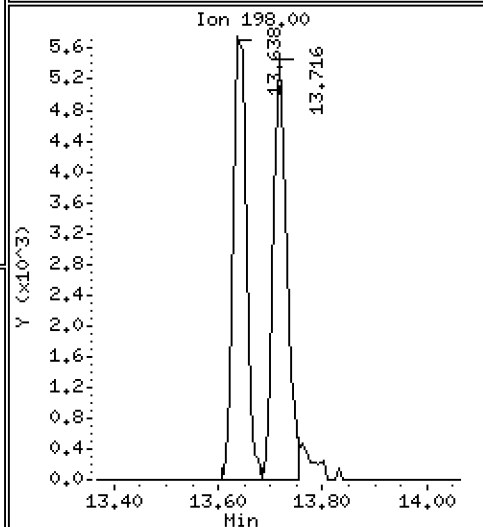
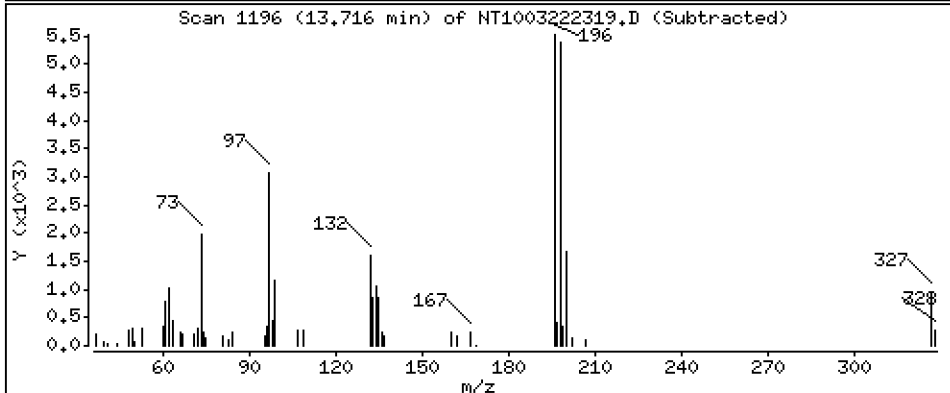
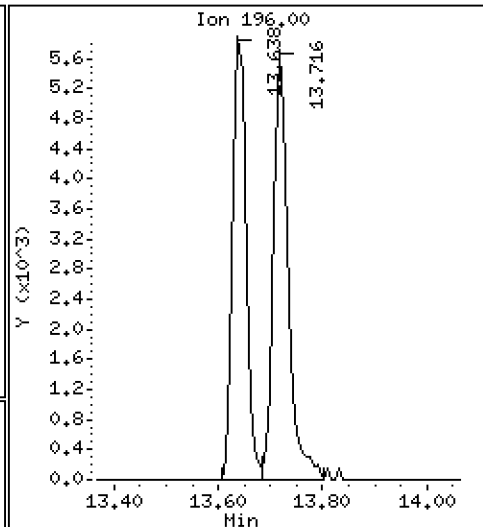
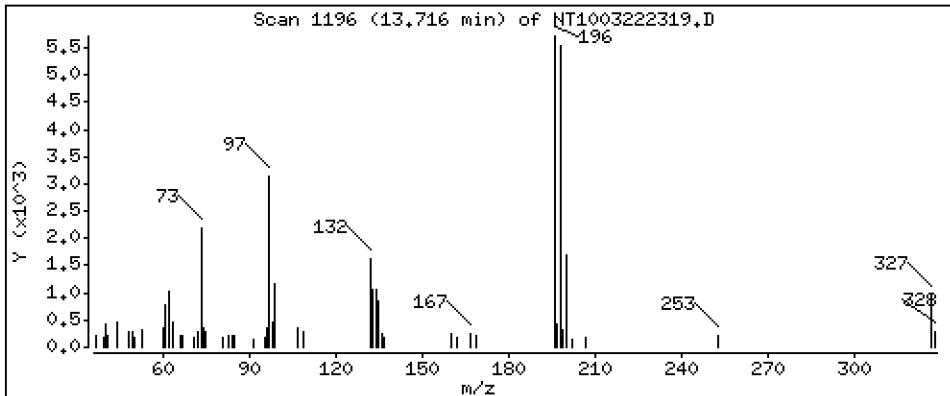
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

35 2,4,5-Trichlorophenol

Concentration: 0,3791 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

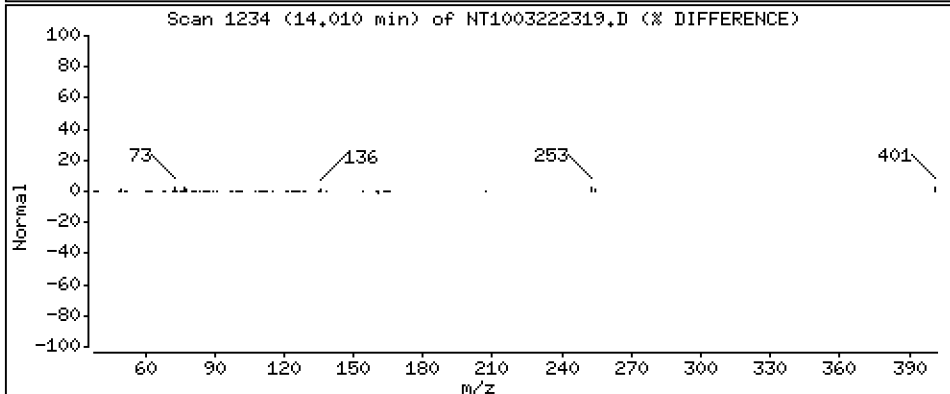
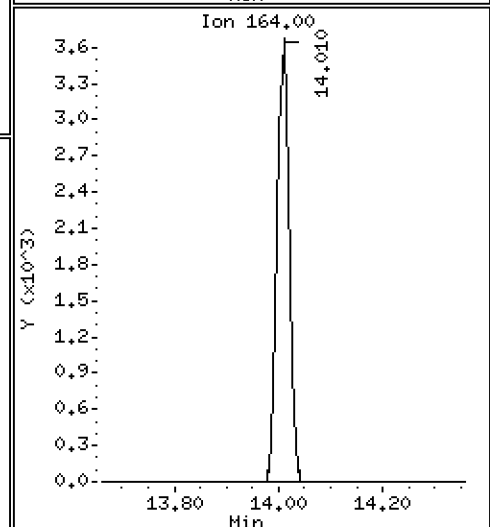
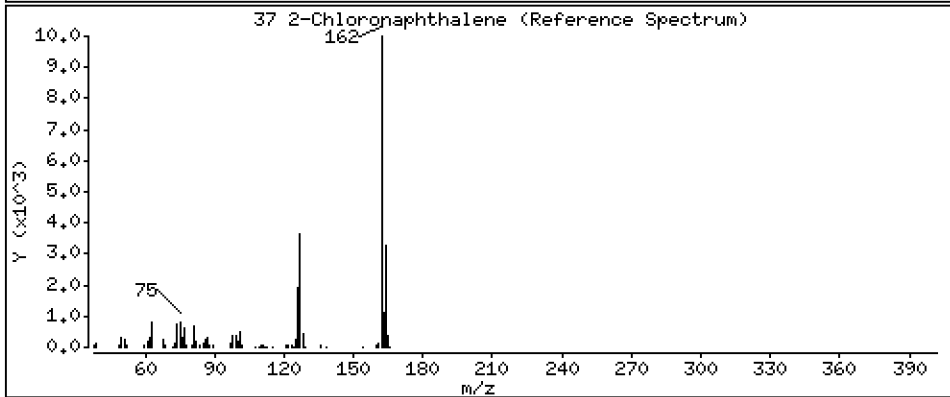
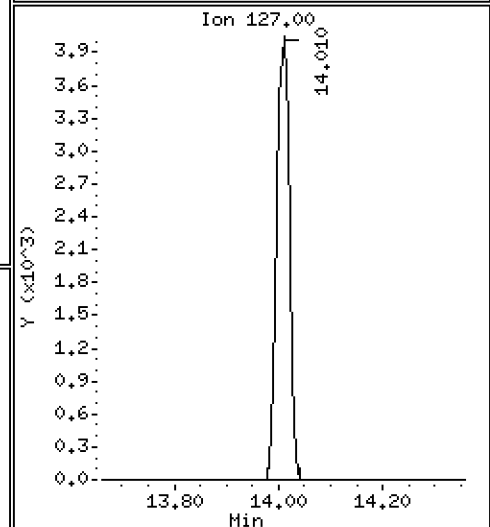
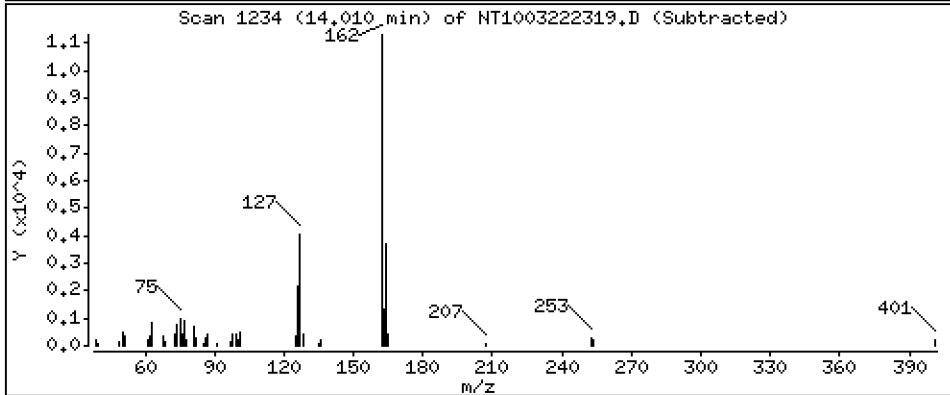
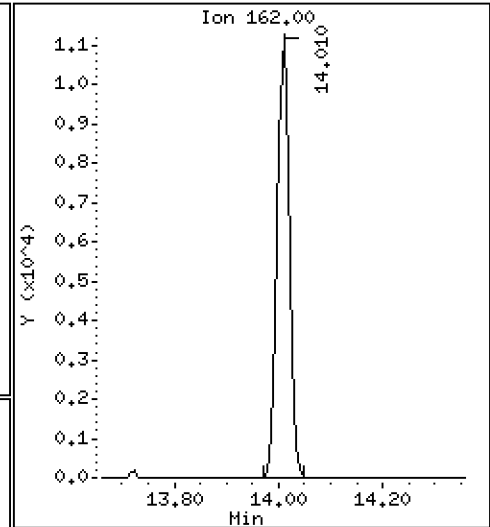
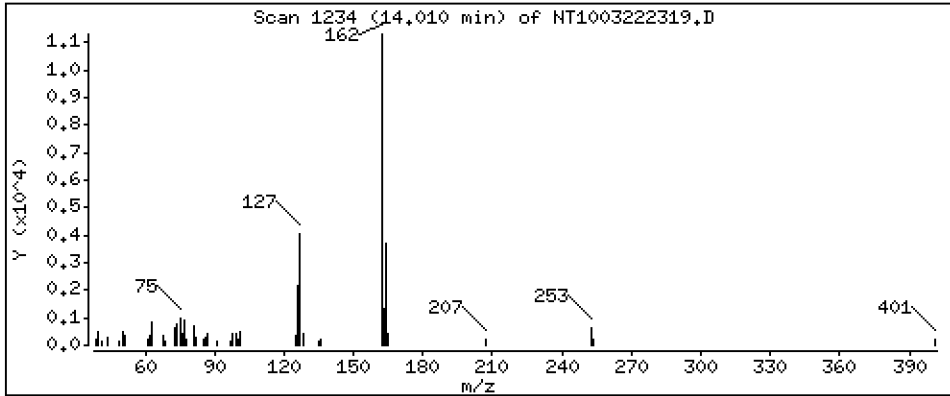
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

37 2-Chloronaphthalene

Concentration: 0,2044 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

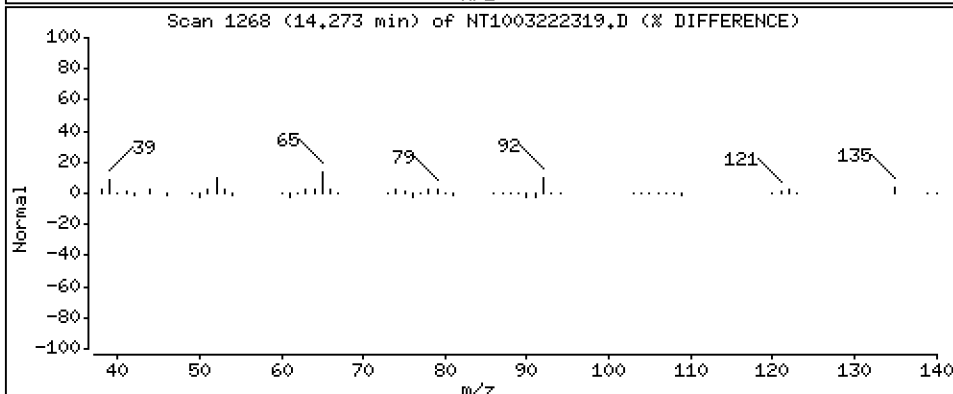
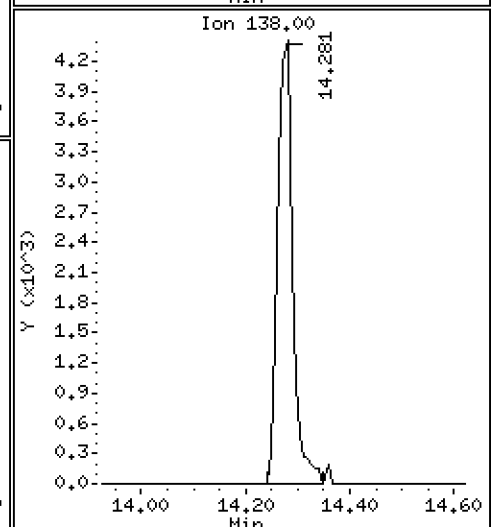
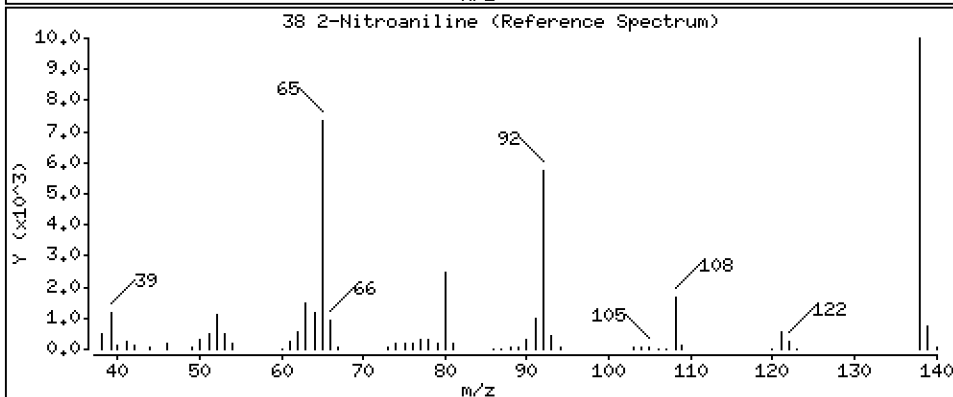
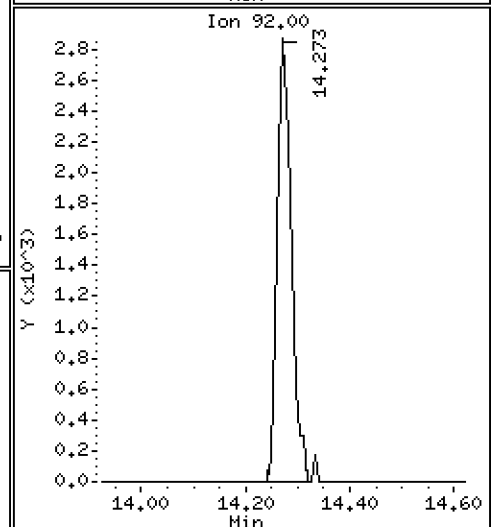
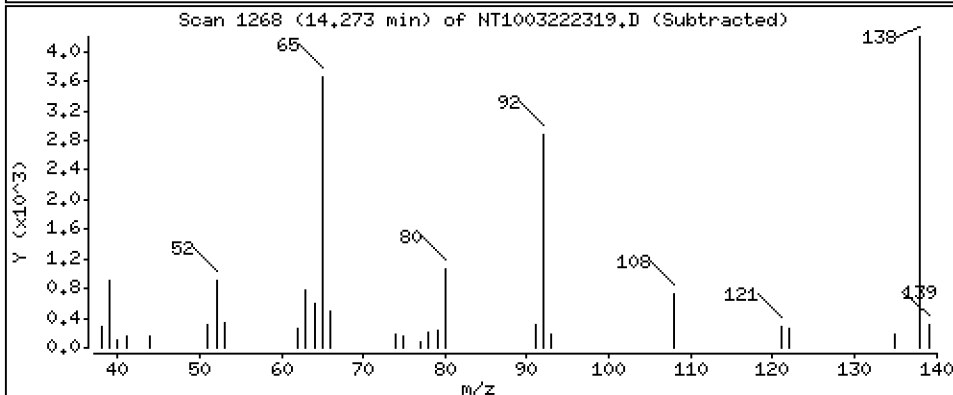
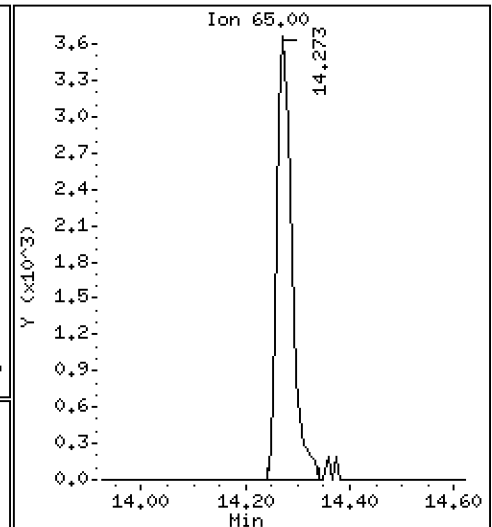
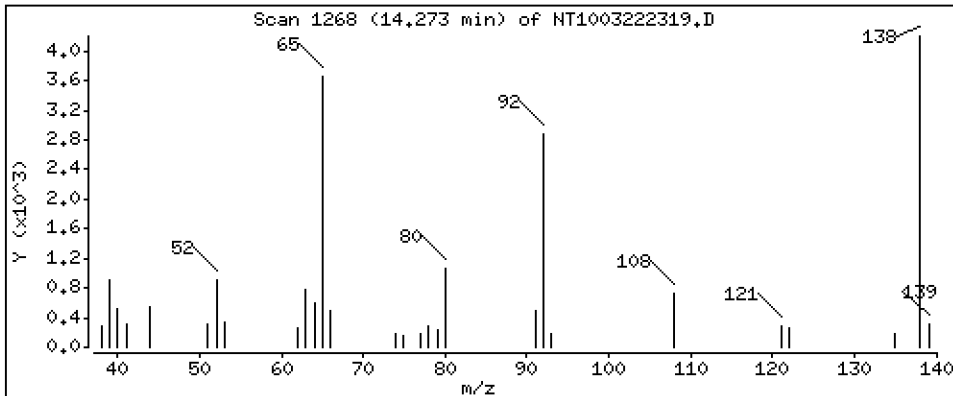
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

38 2-Nitroaniline

Concentration: 0,3006 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

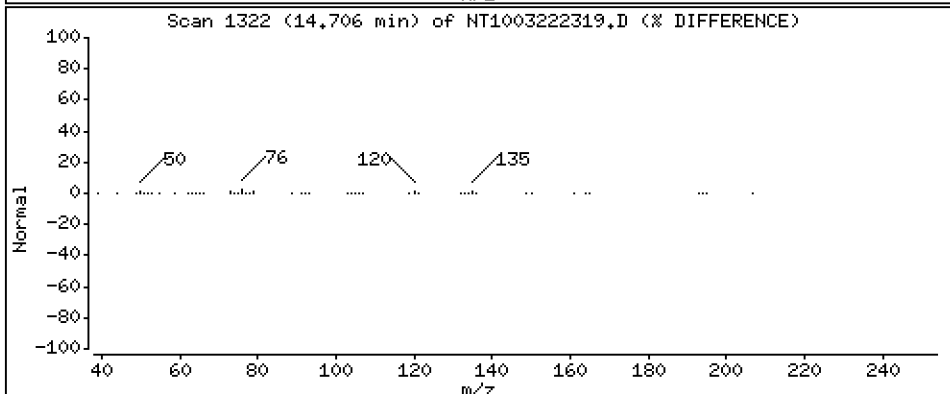
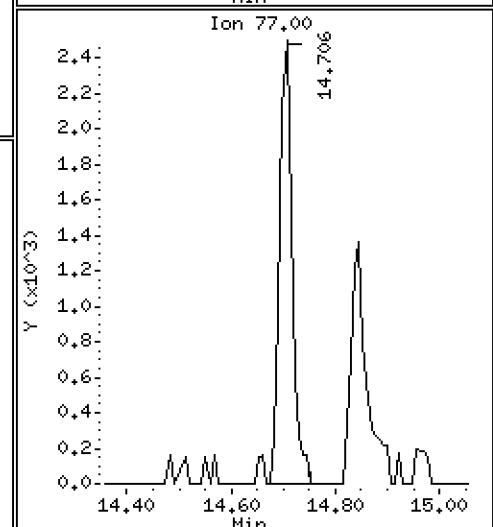
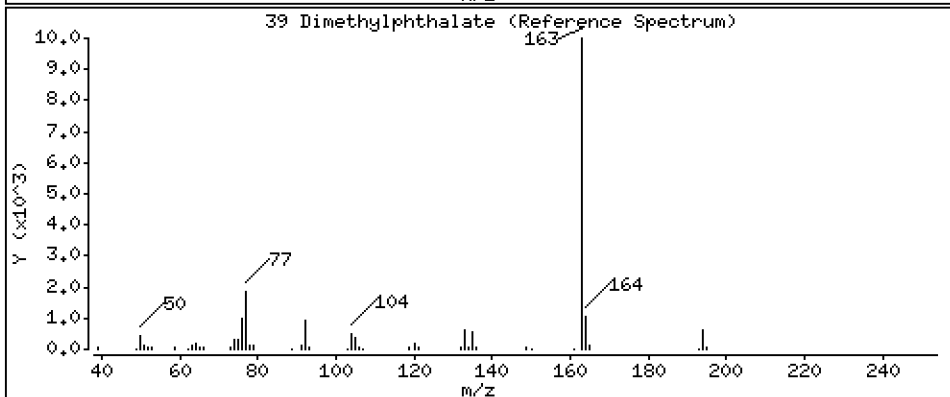
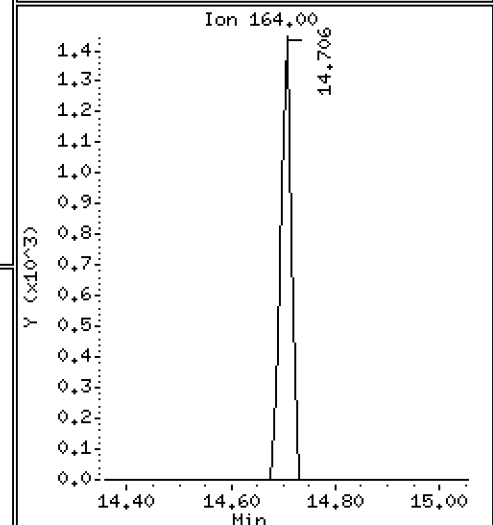
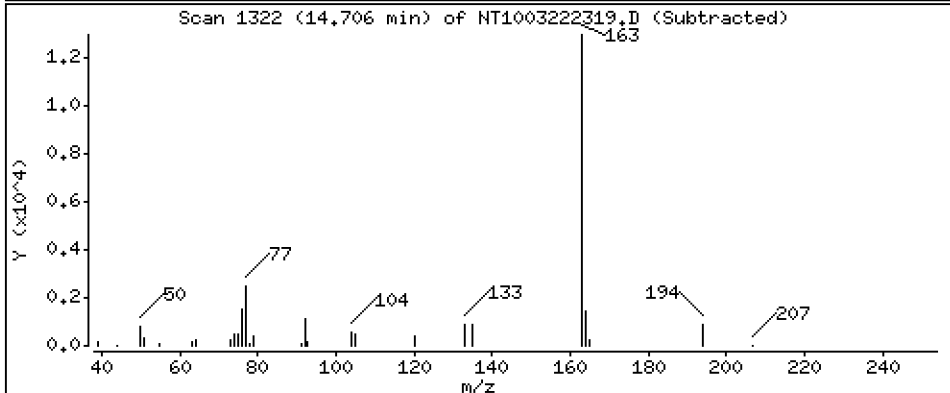
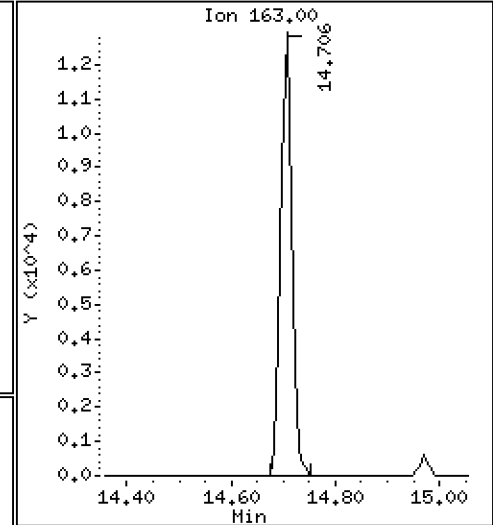
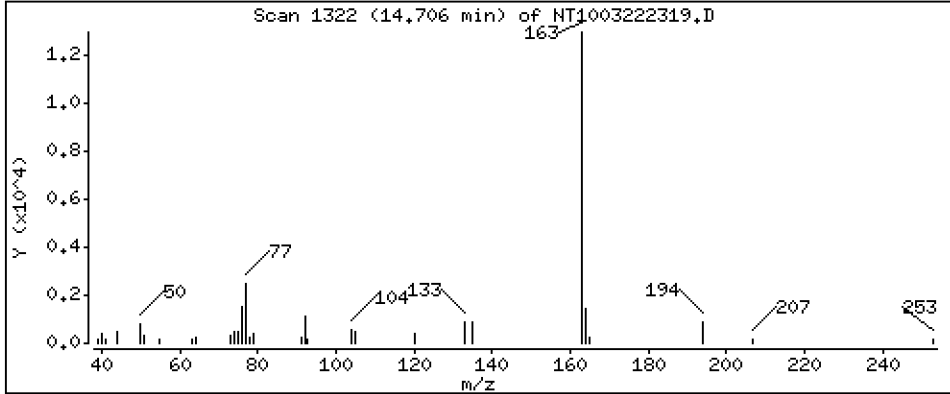
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 0,2123 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

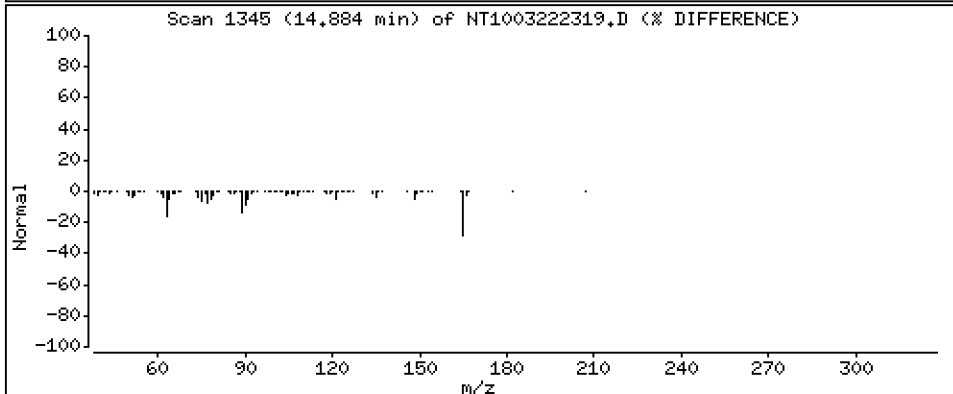
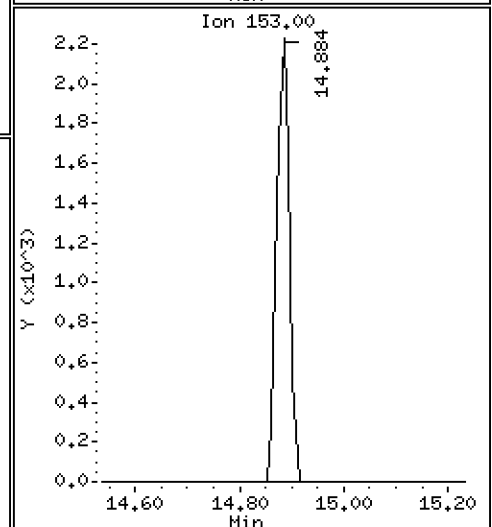
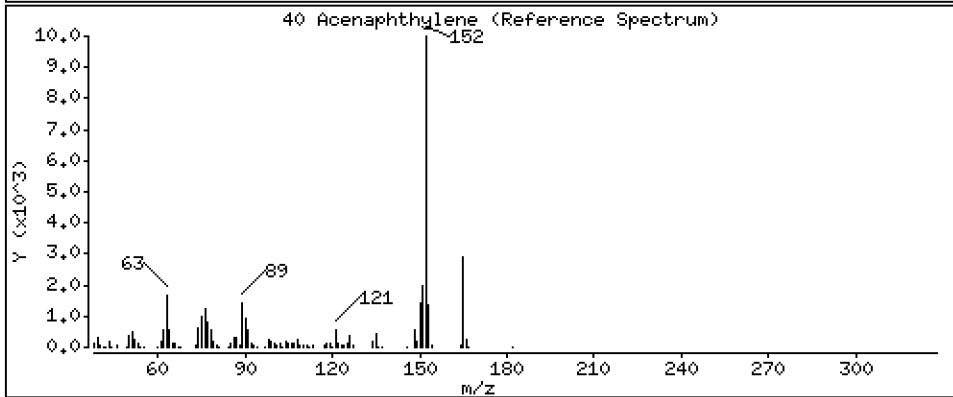
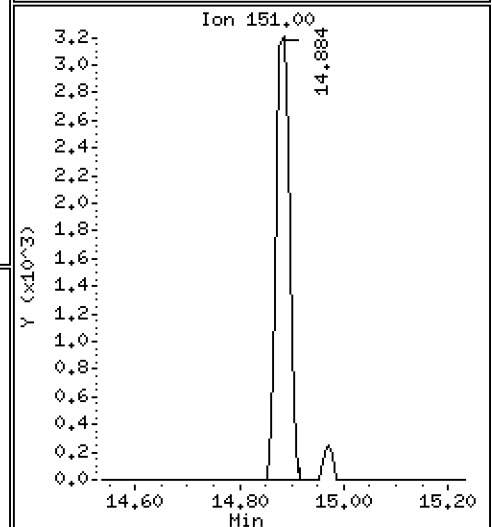
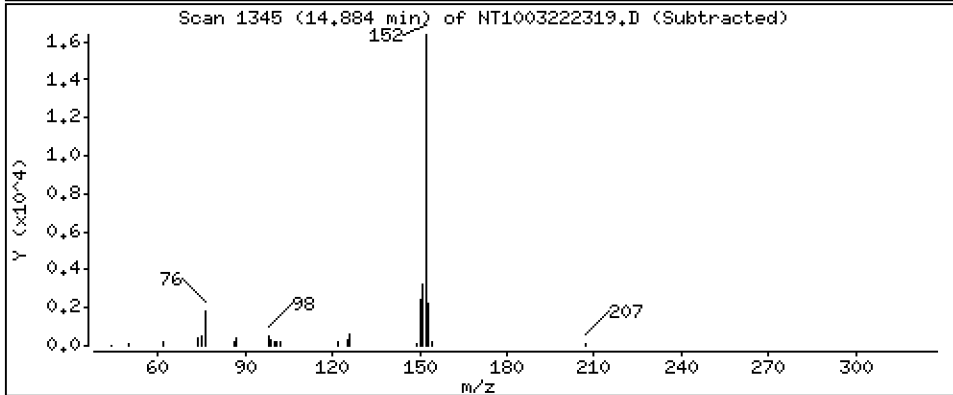
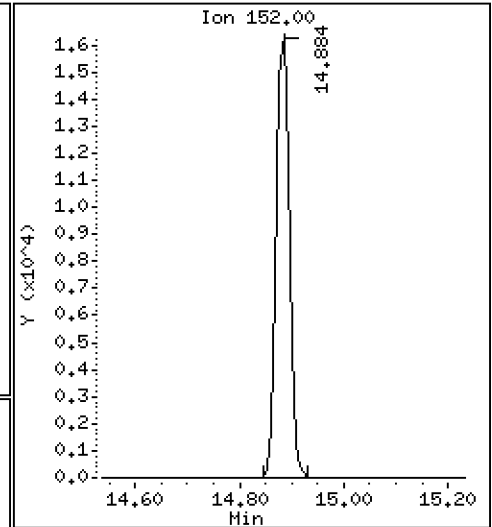
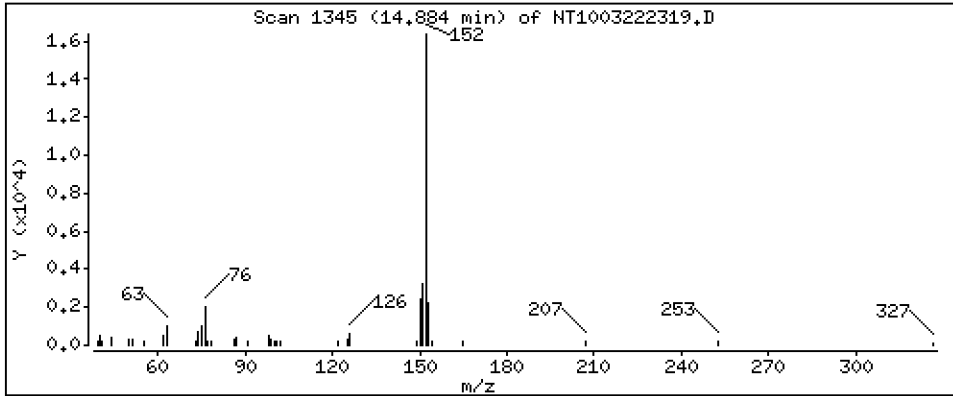
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 0,2078 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

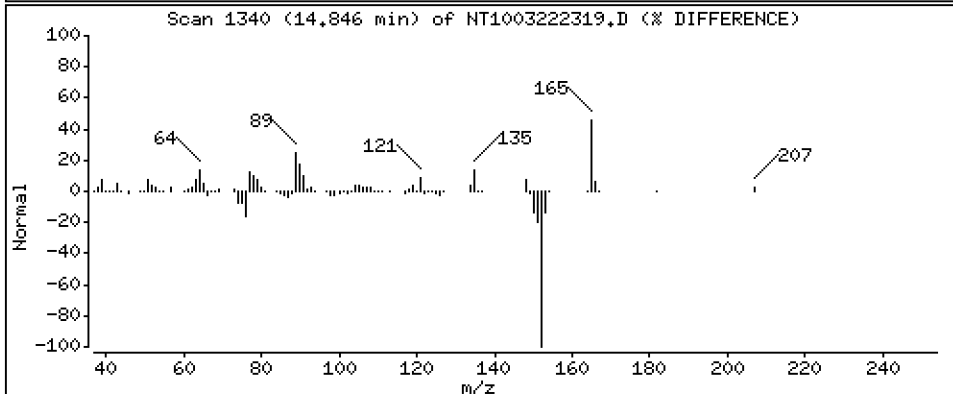
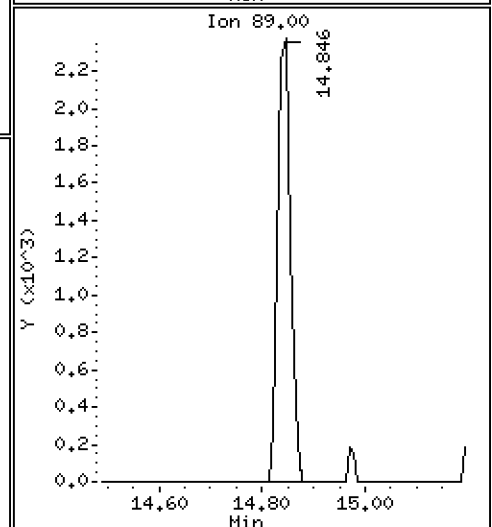
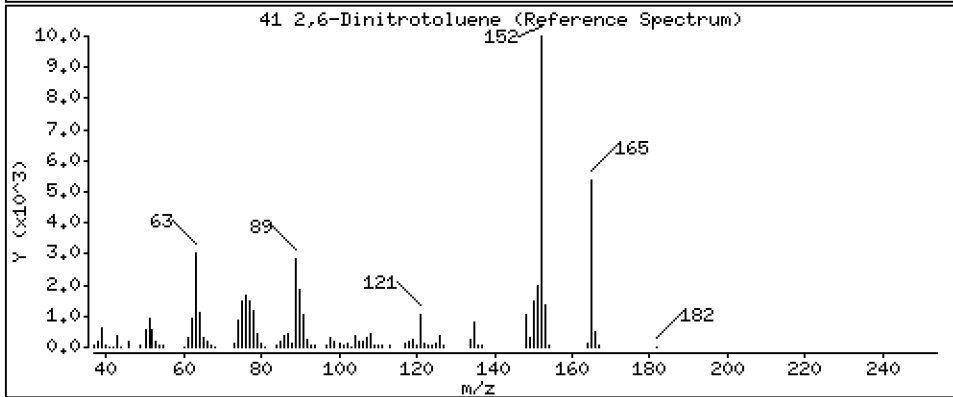
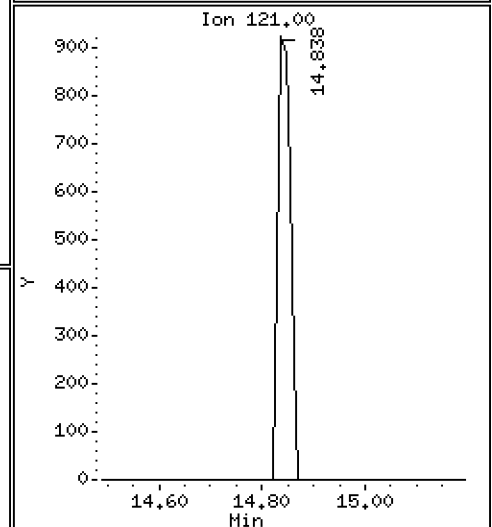
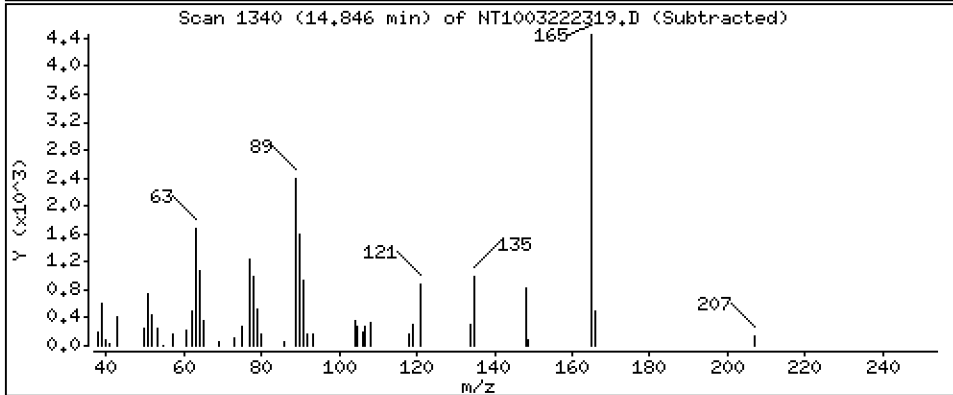
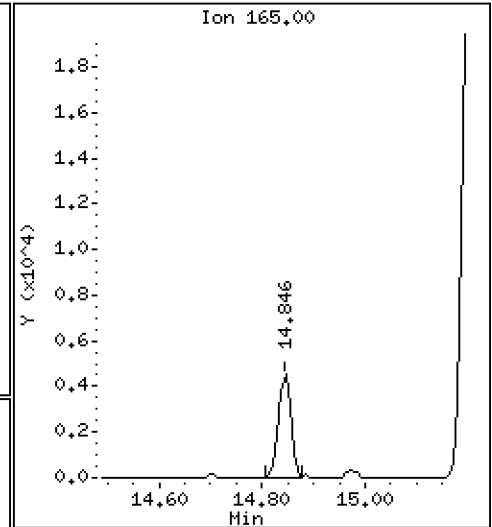
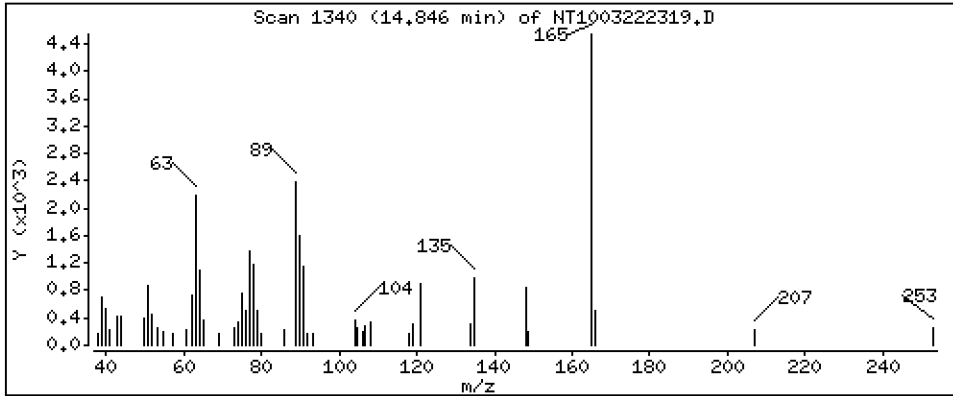
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

41 2,6-Dinitrotoluene

Concentration: 0.3889 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

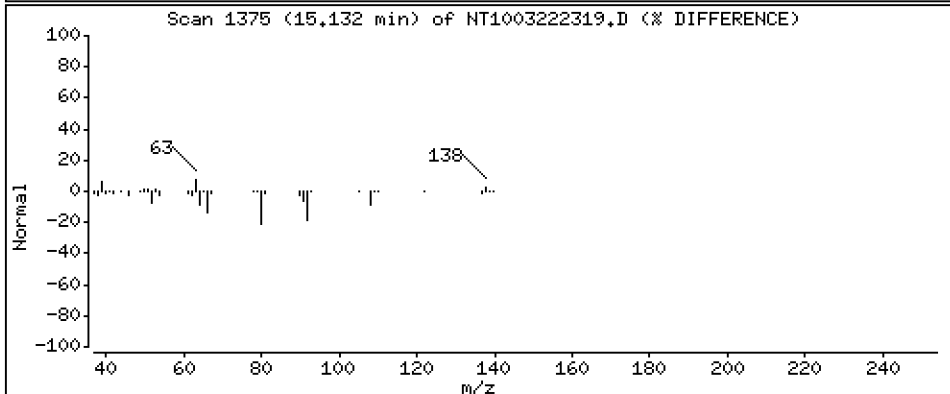
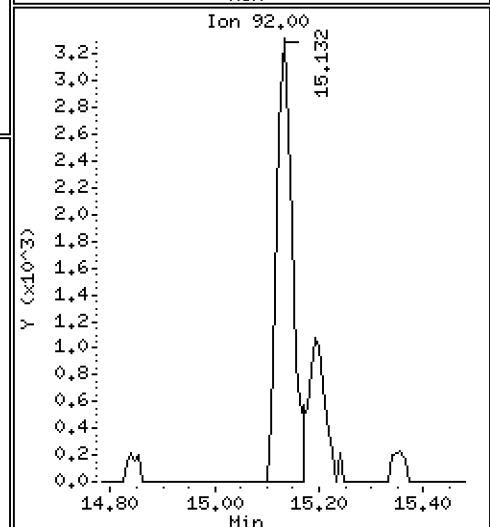
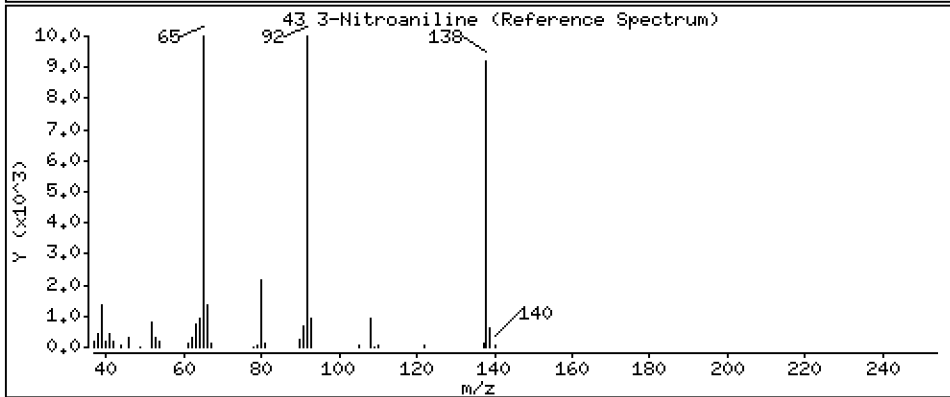
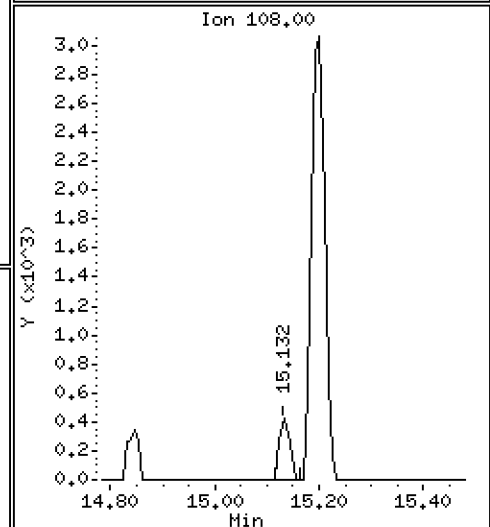
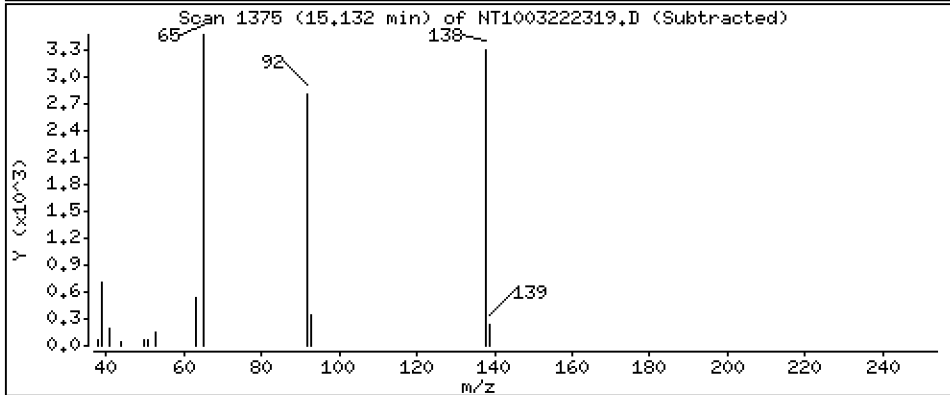
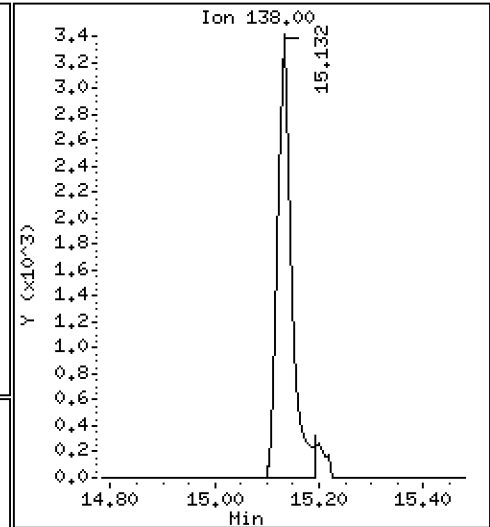
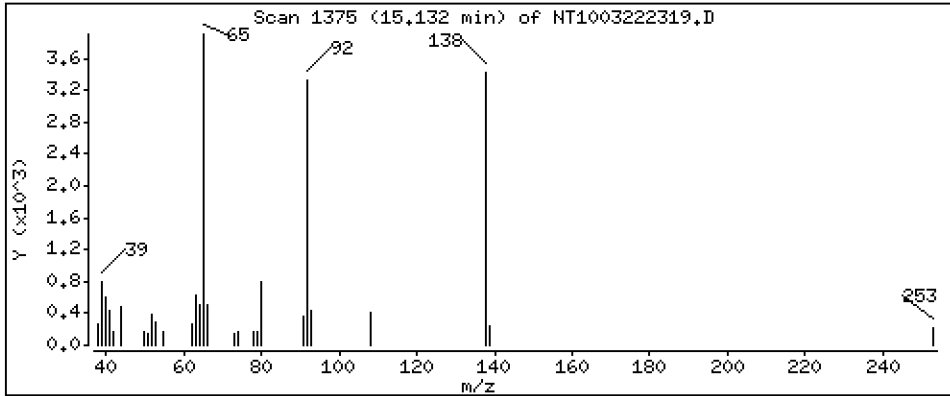
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

43 3-Nitroaniline

Concentration: 0,2954 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

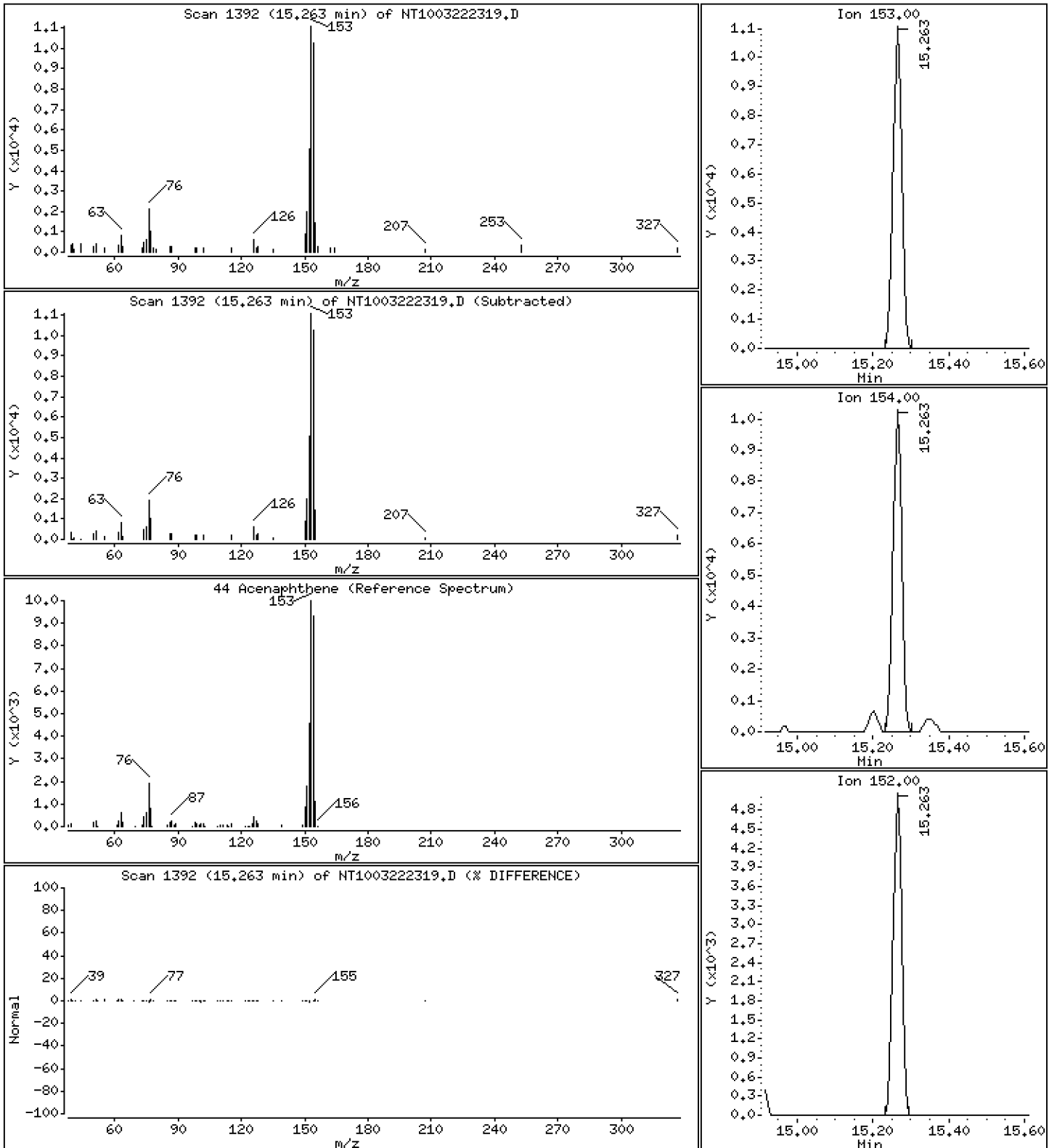
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

44 Acenaphthene

Concentration: 0.2064 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

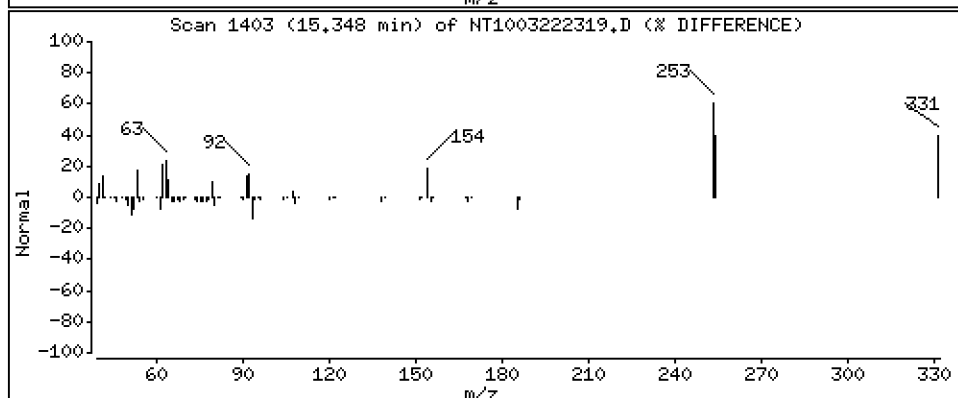
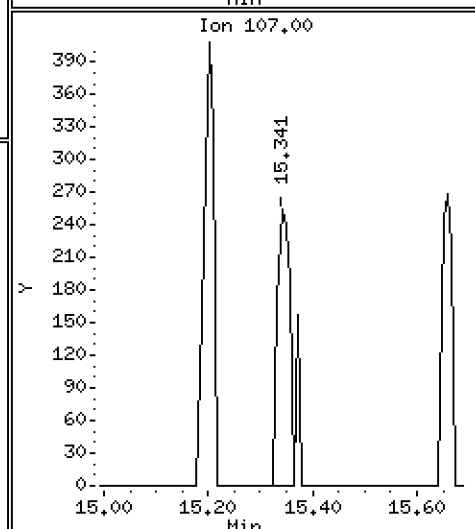
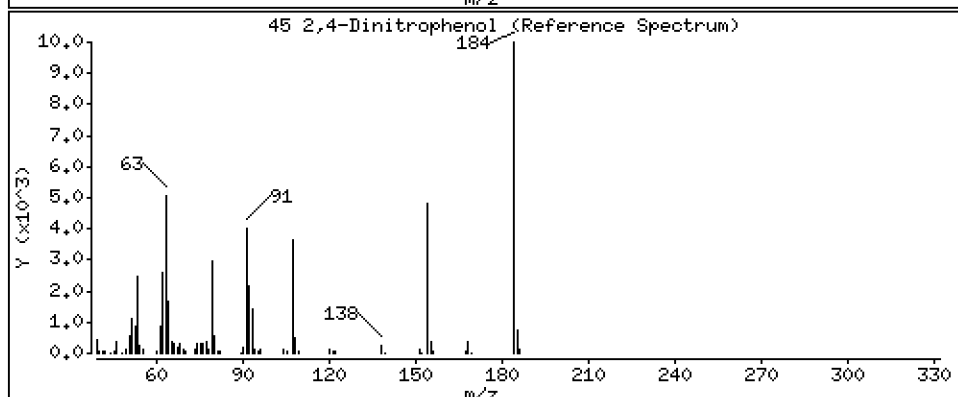
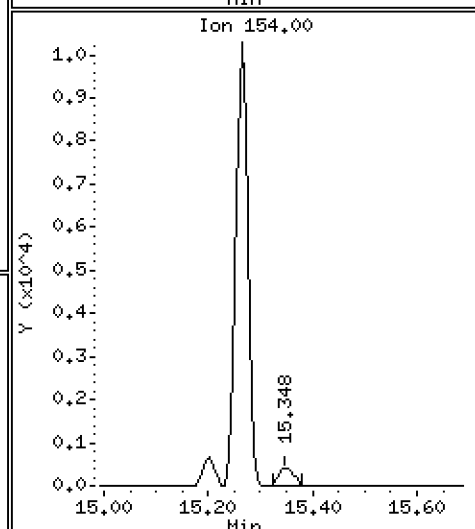
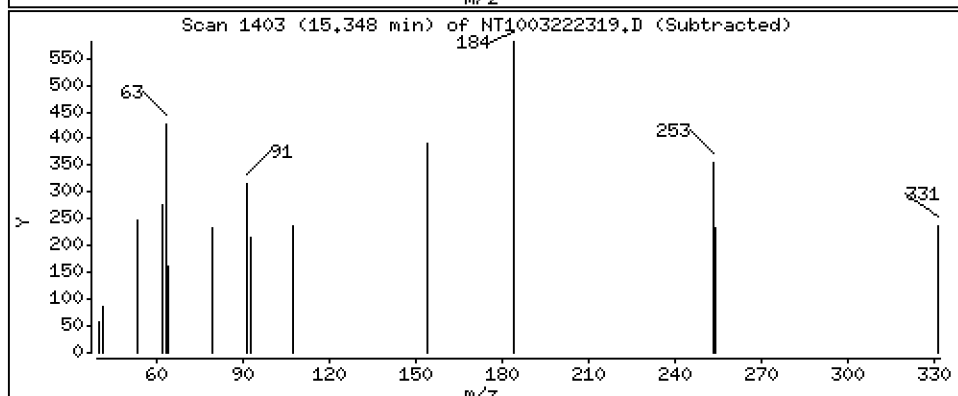
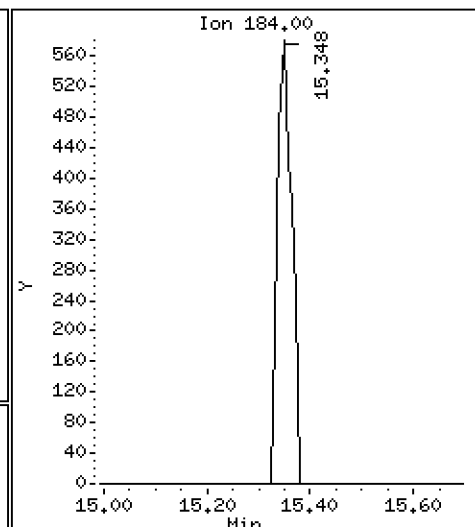
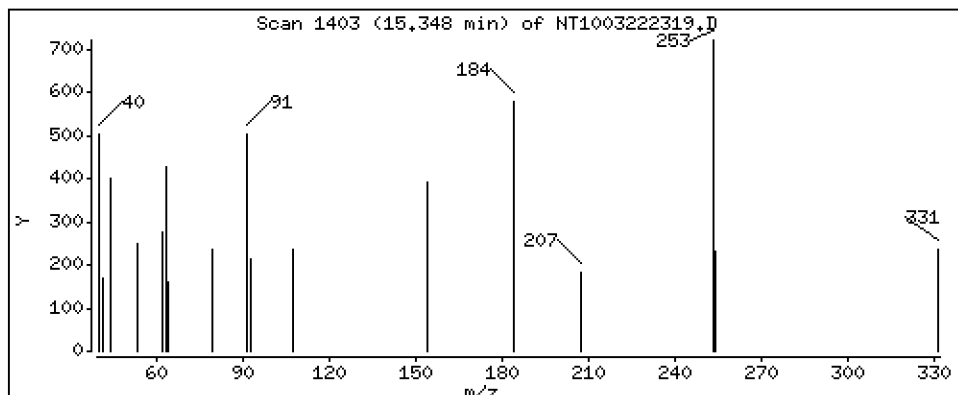
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

45 2,4-Dinitrophenol

Concentration: 0,09523 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

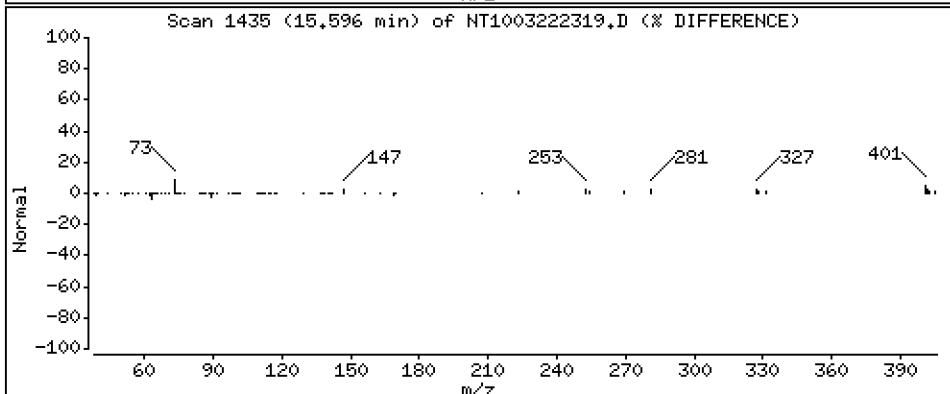
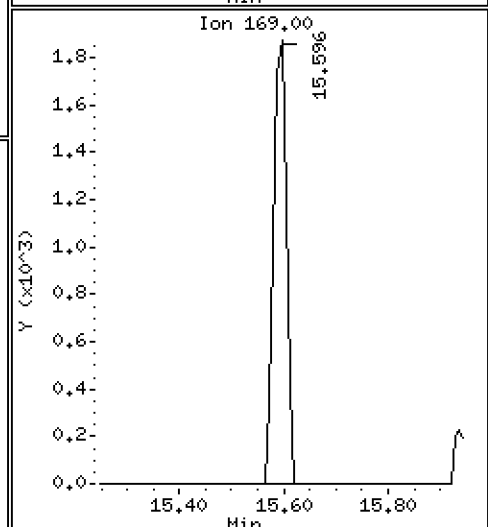
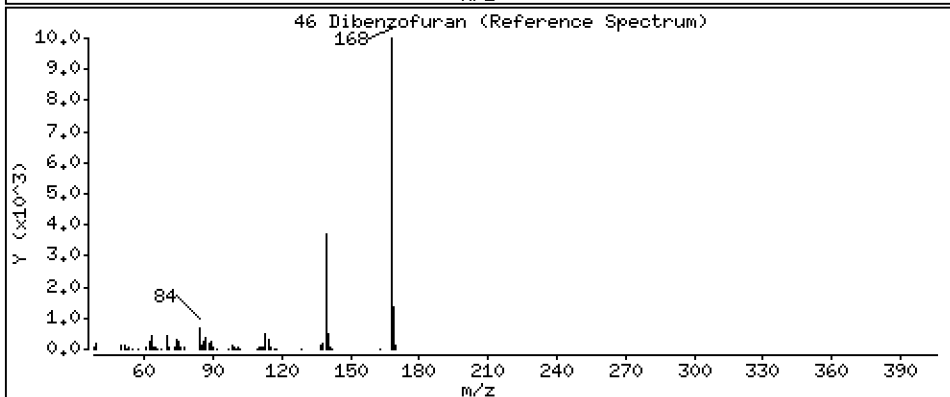
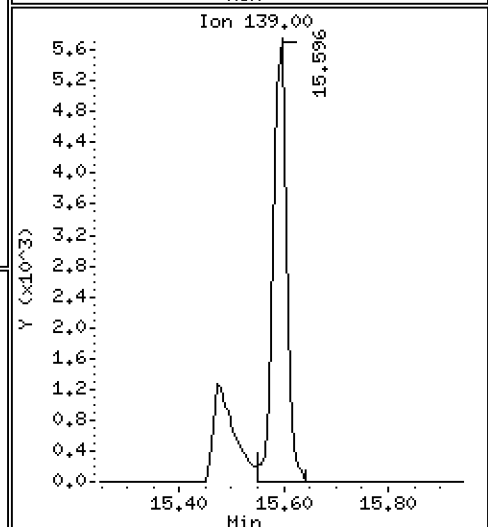
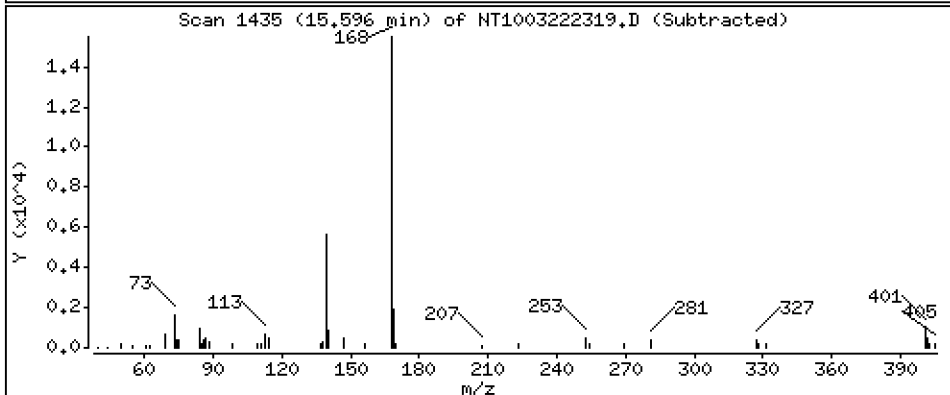
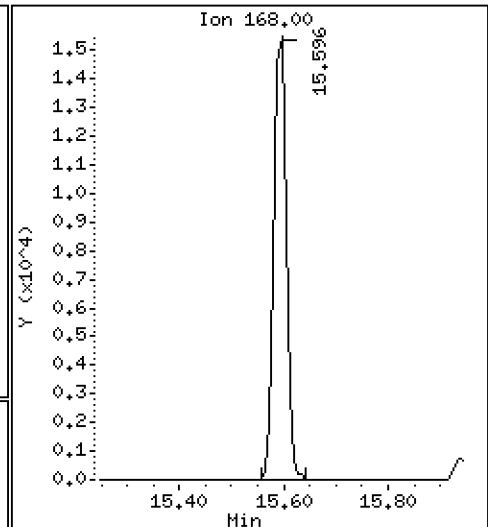
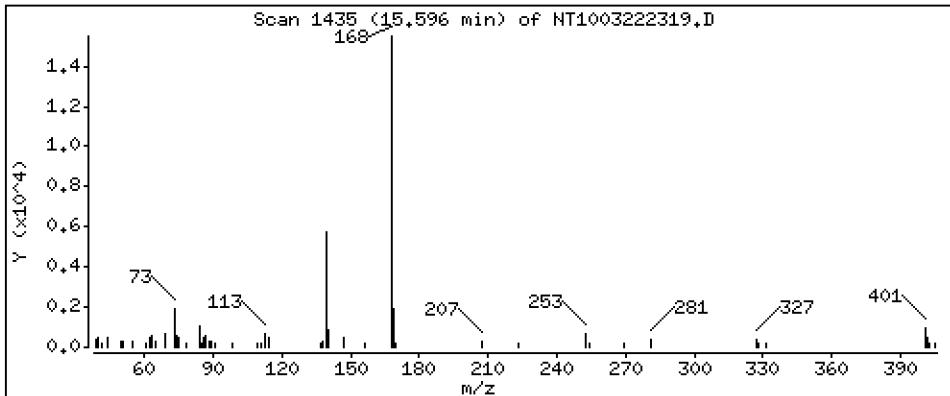
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 0,2045 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

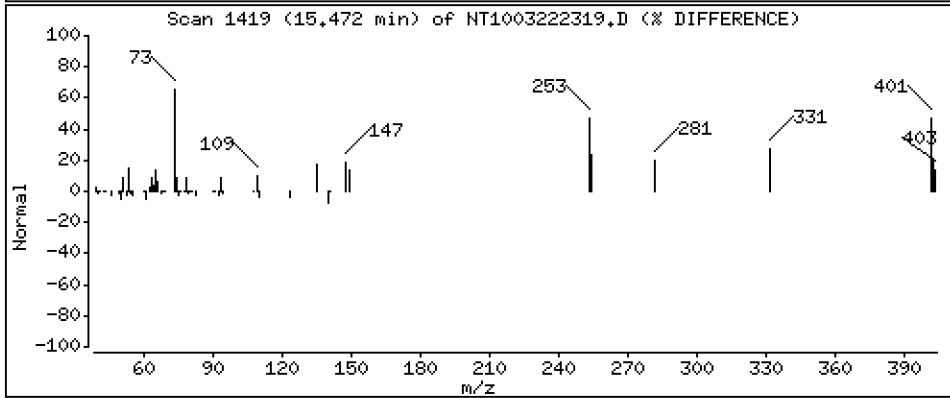
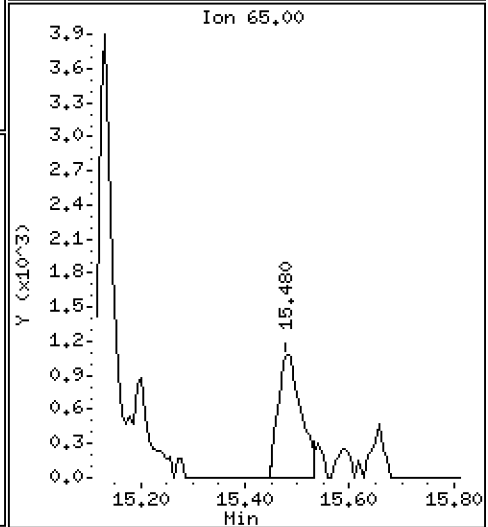
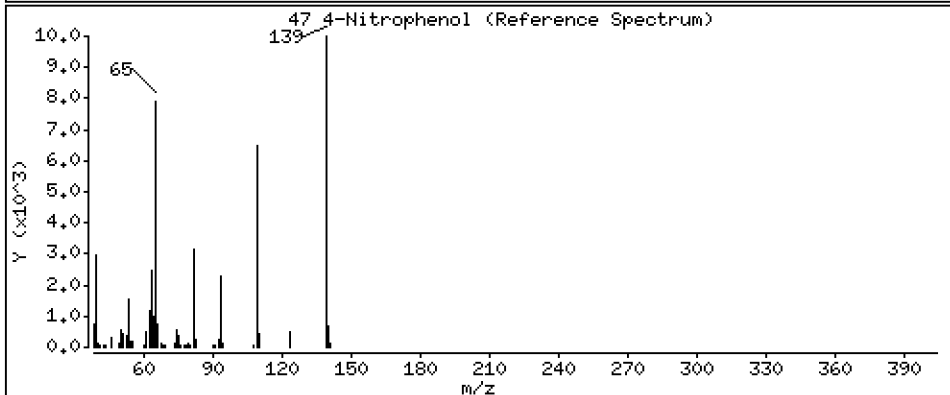
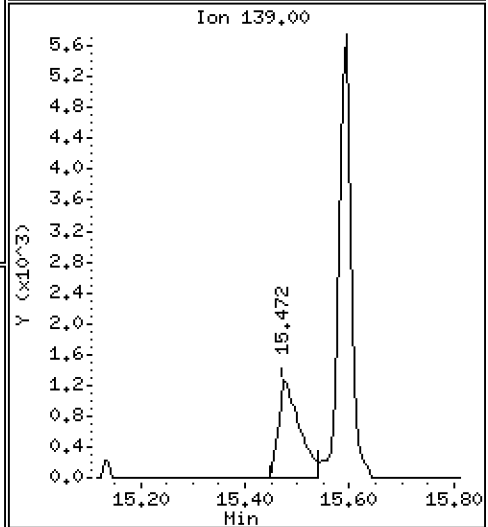
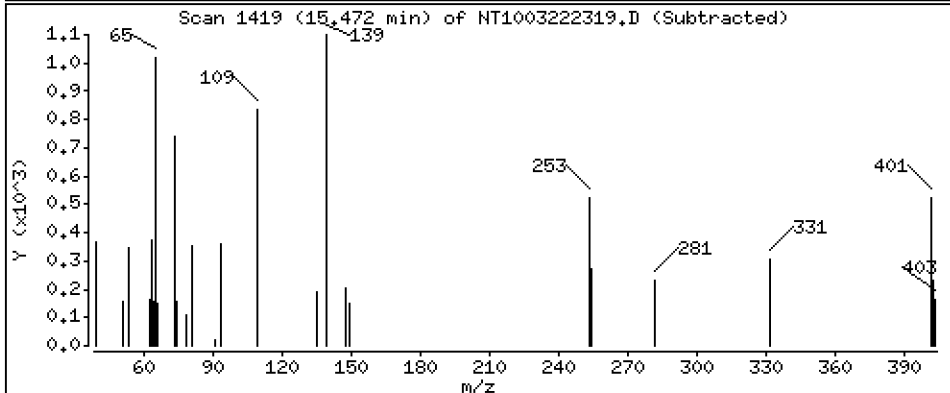
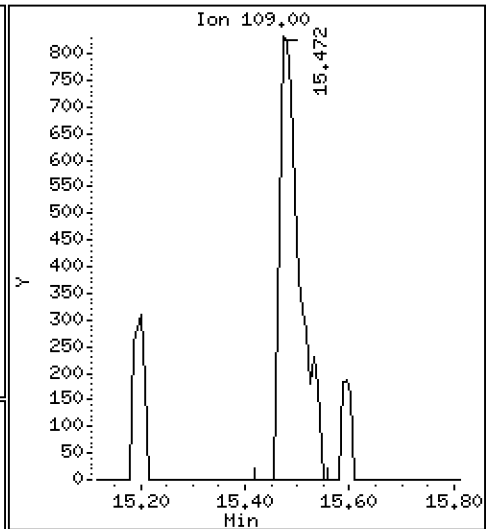
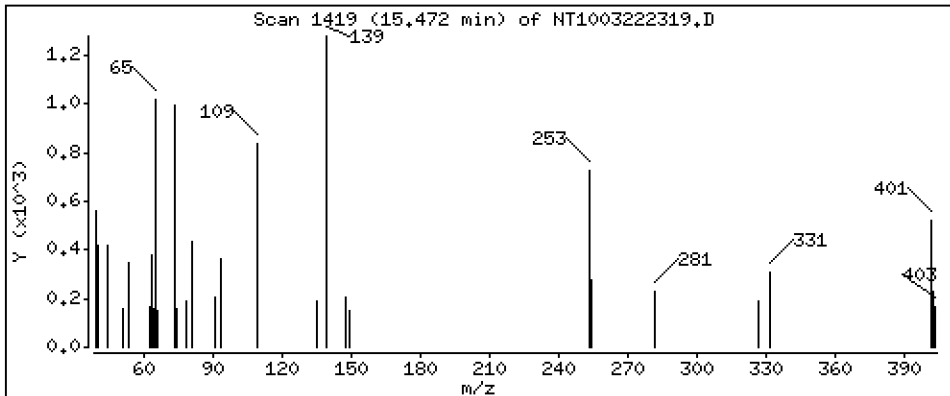
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

47 4-Nitrophenol

Concentration: 0.1763 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

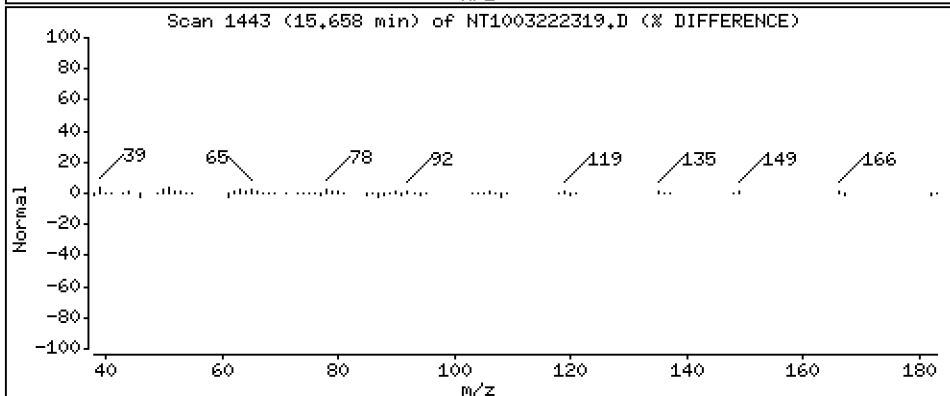
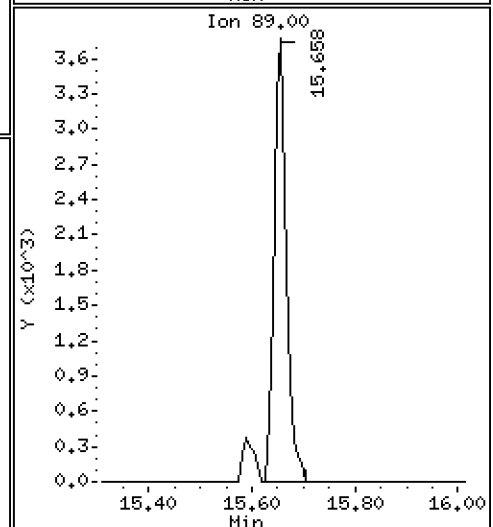
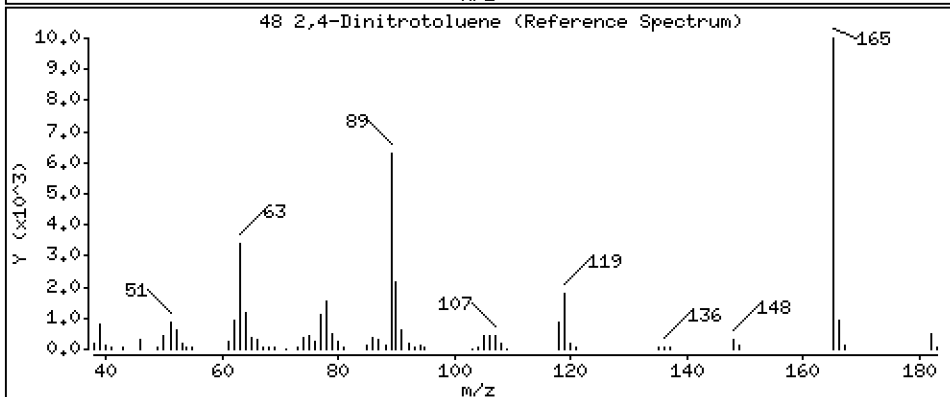
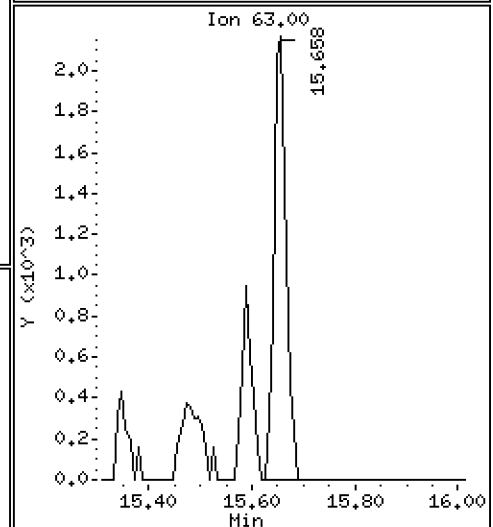
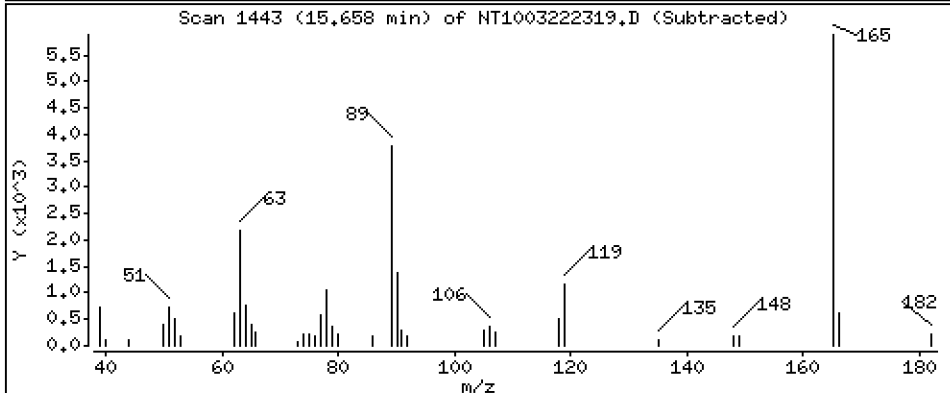
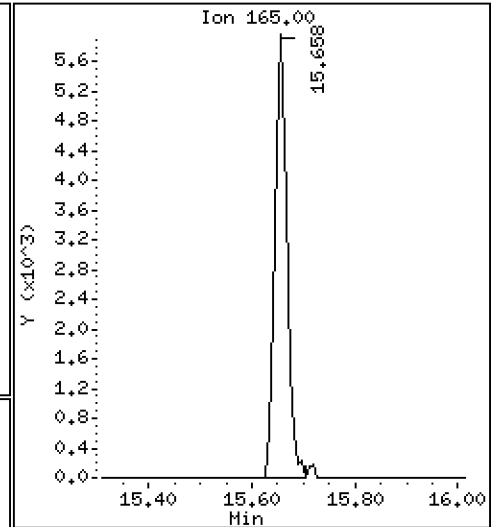
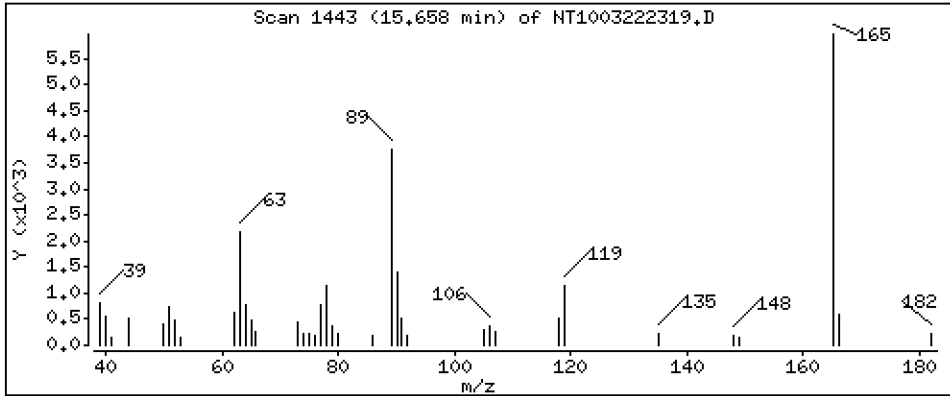
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

48 2,4-Dinitrotoluene

Concentration: 0,3239 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

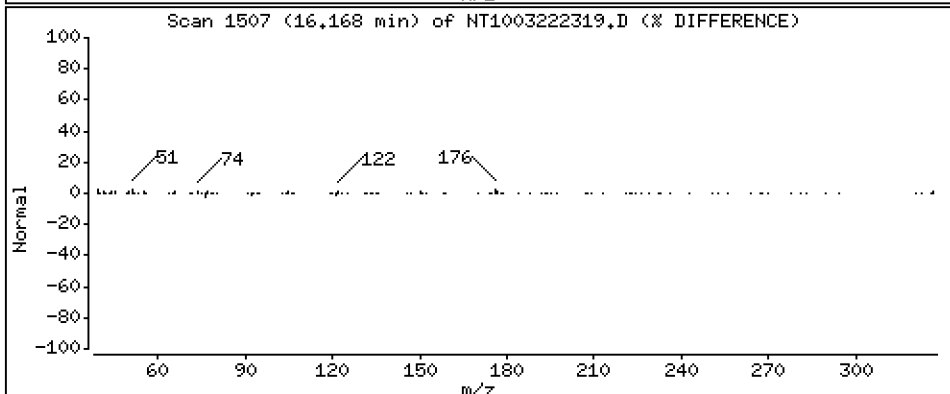
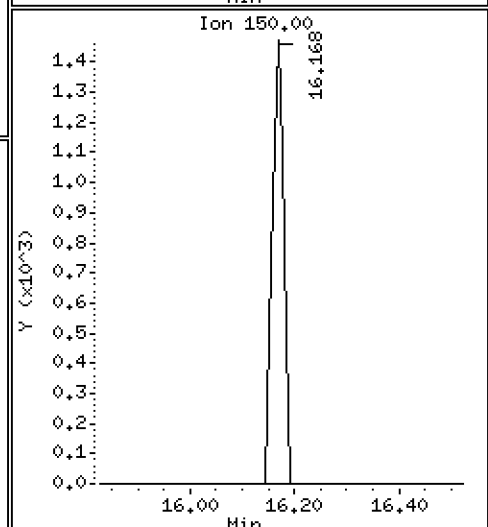
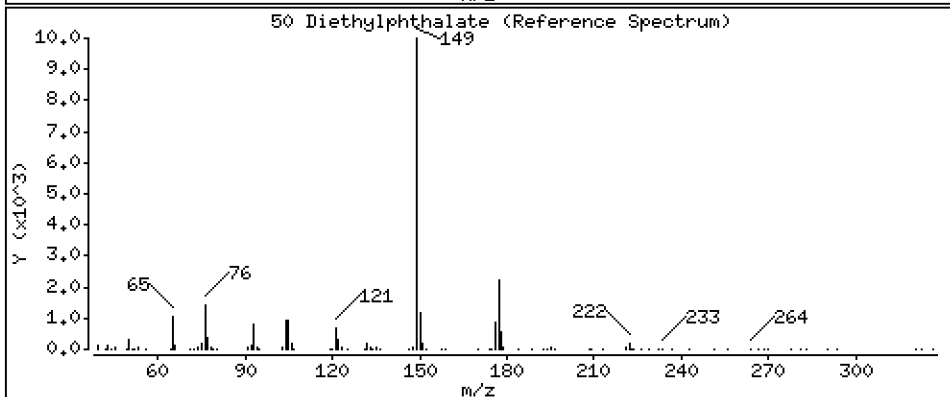
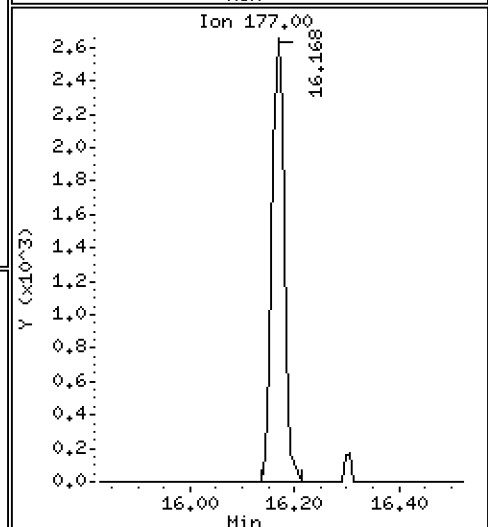
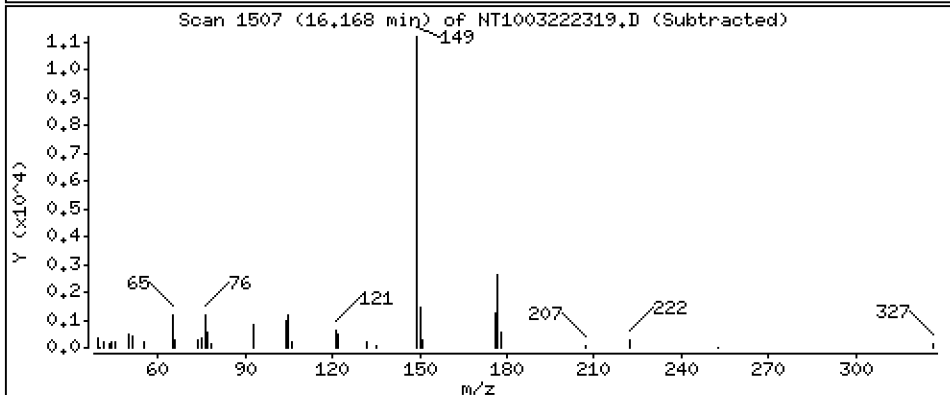
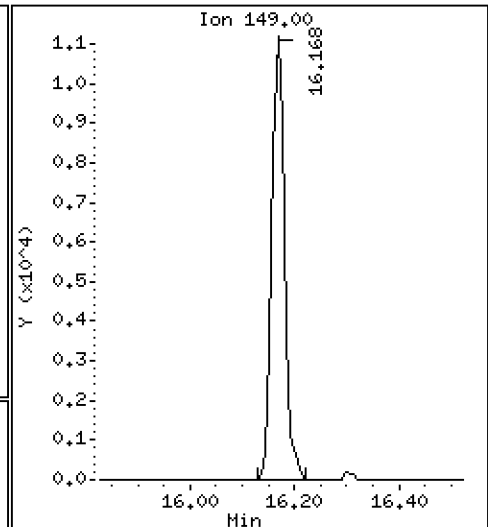
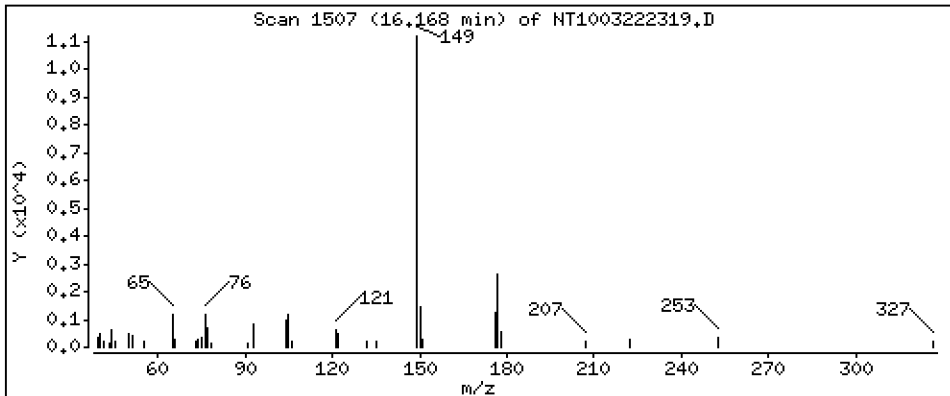
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 0,2506 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

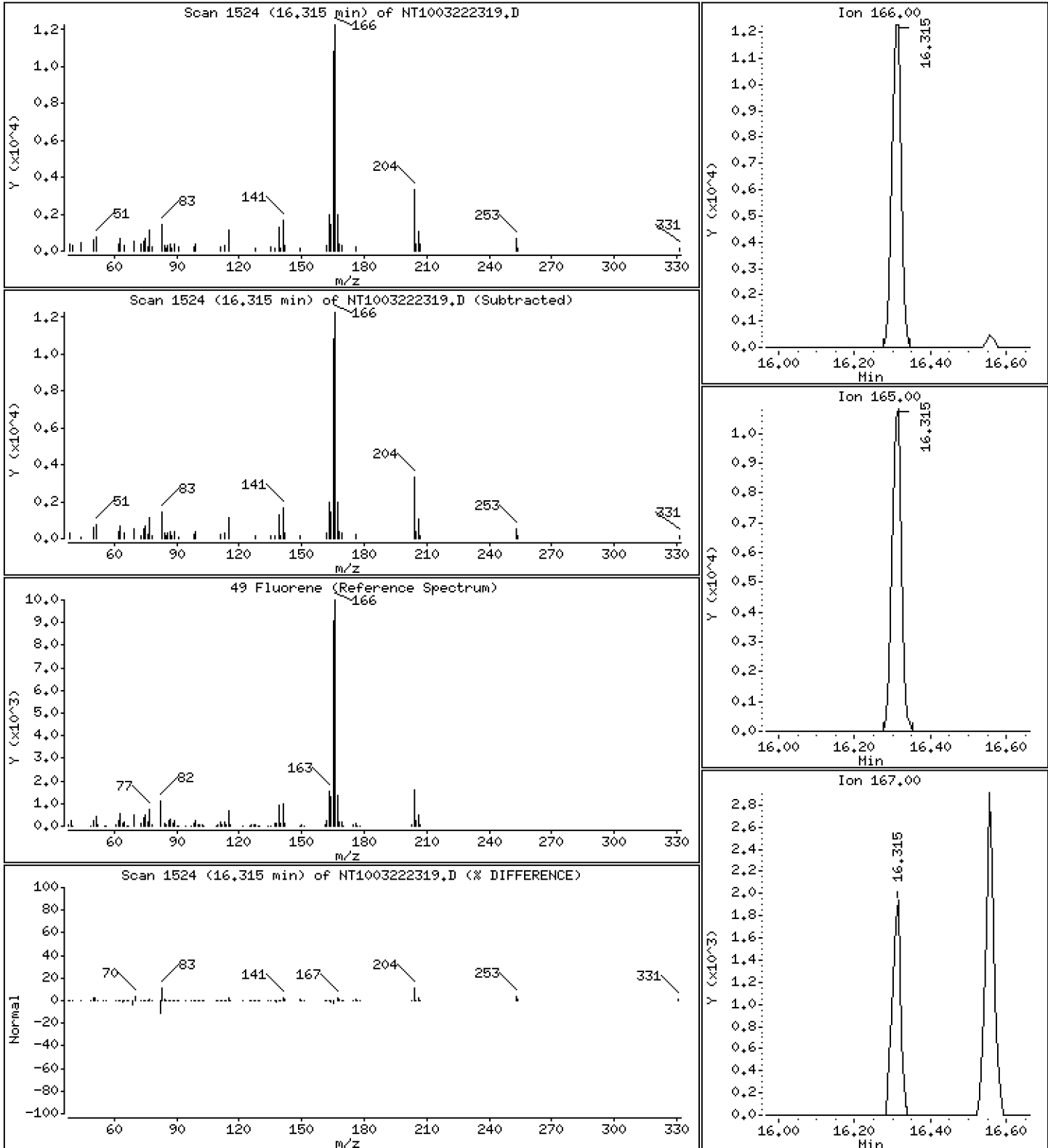
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

49 Fluorene

Concentration: 0.2117 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

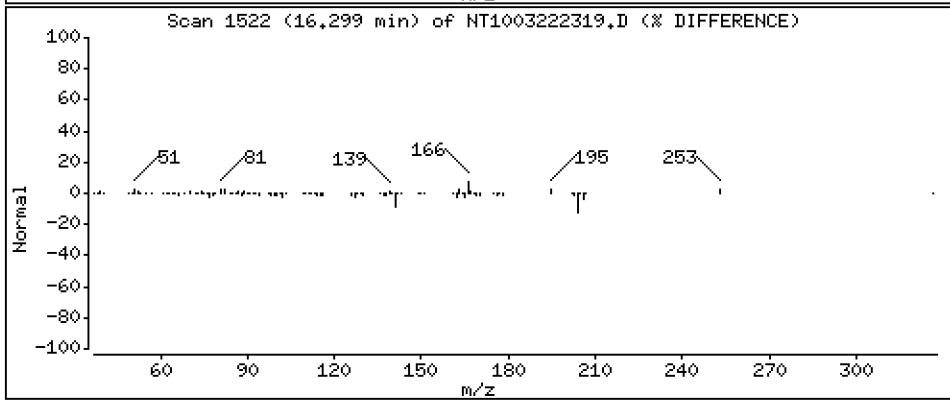
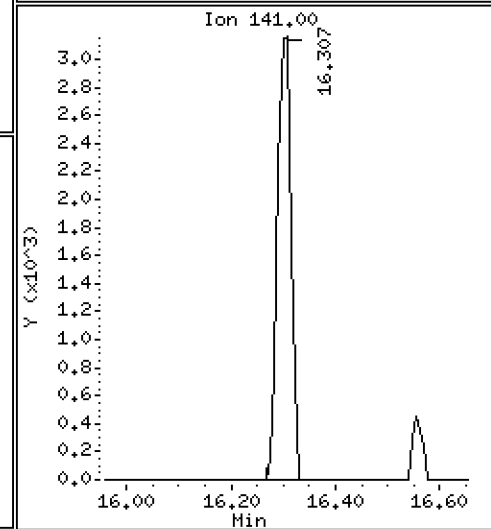
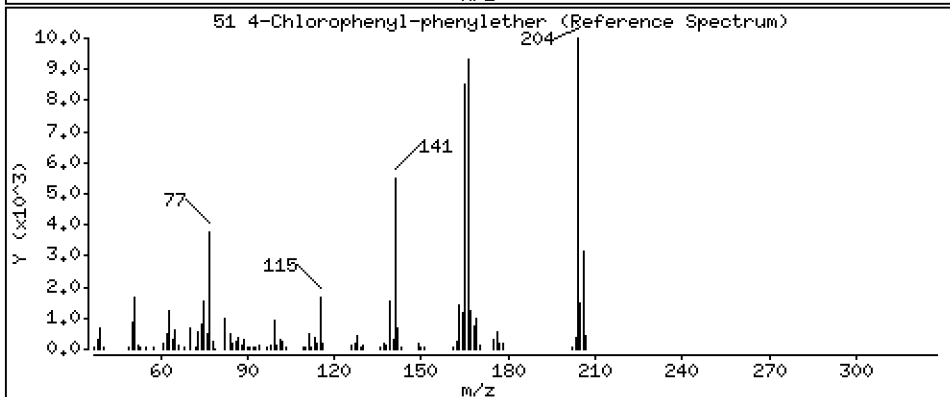
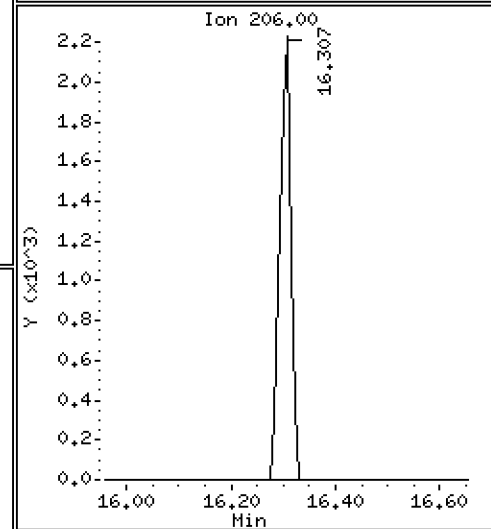
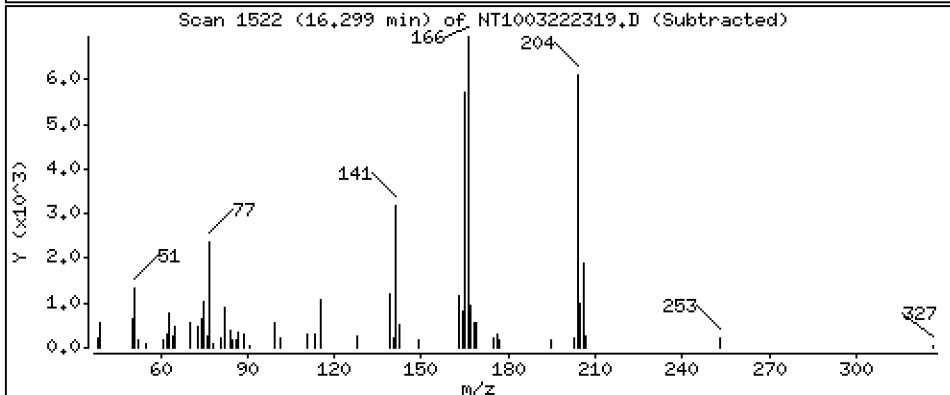
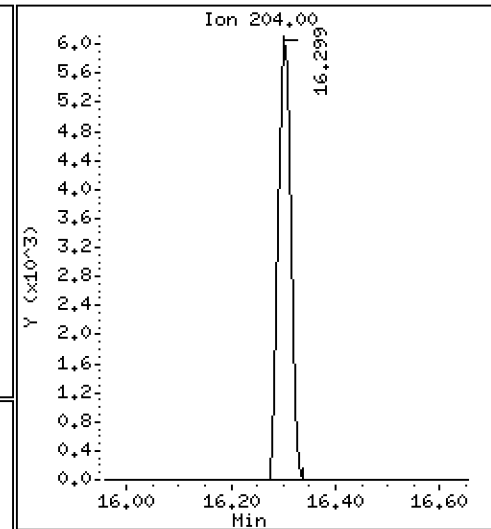
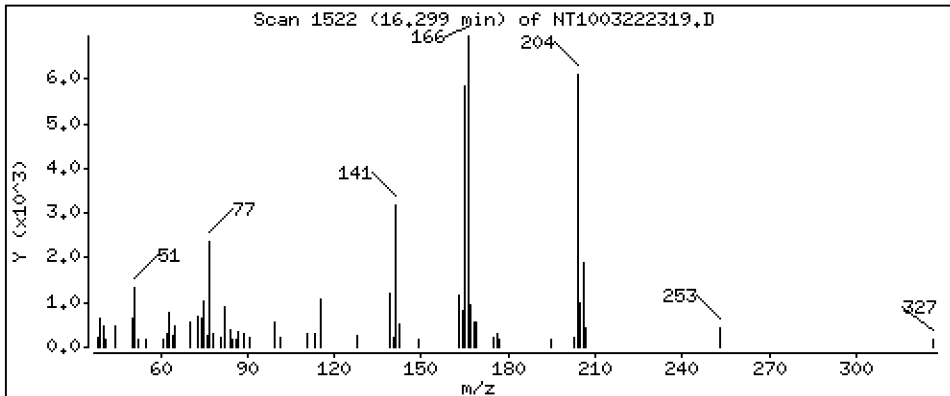
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 0,2194 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

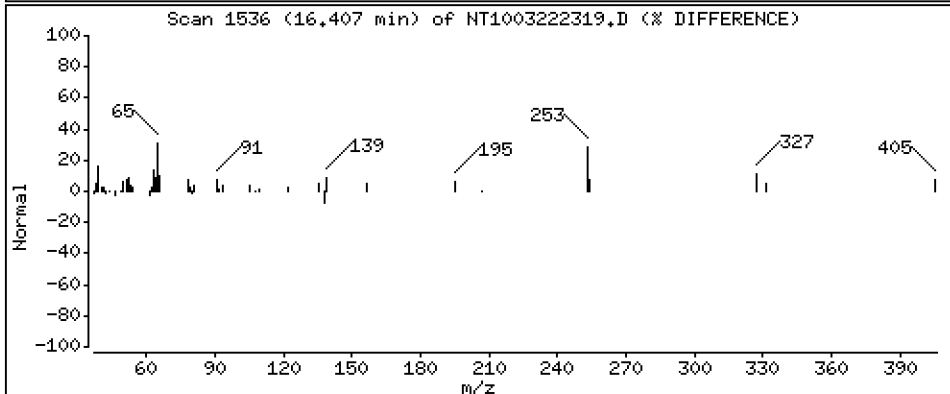
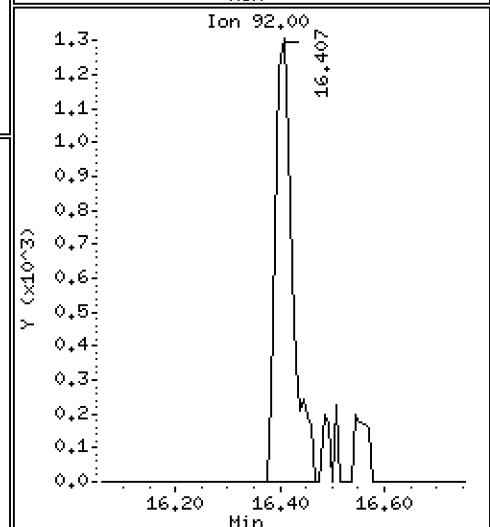
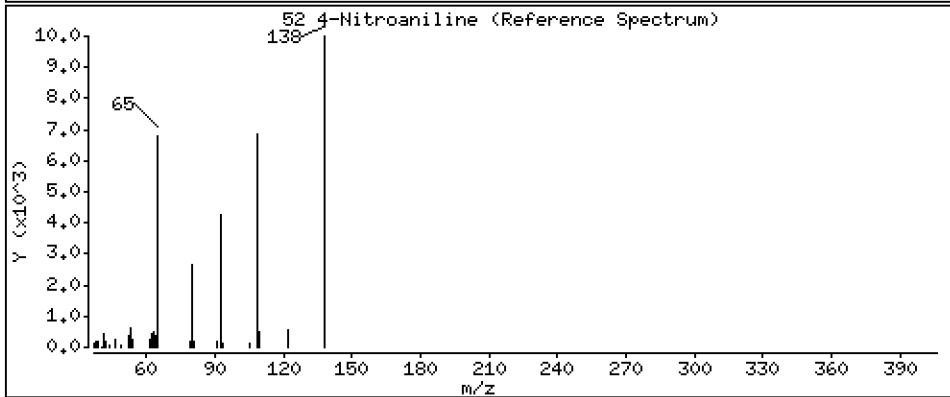
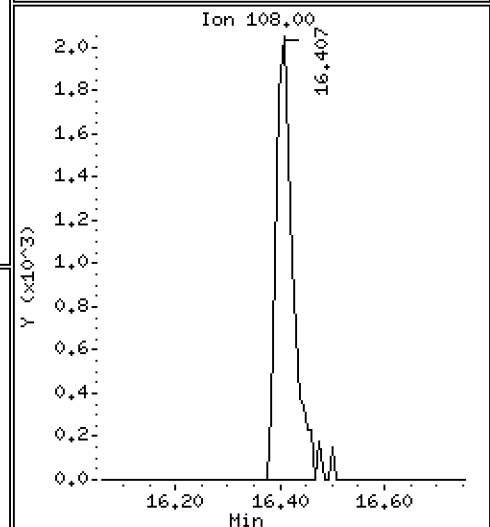
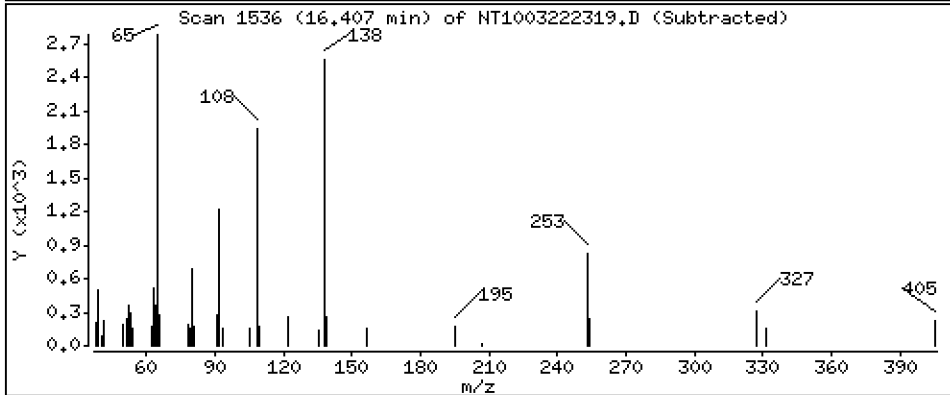
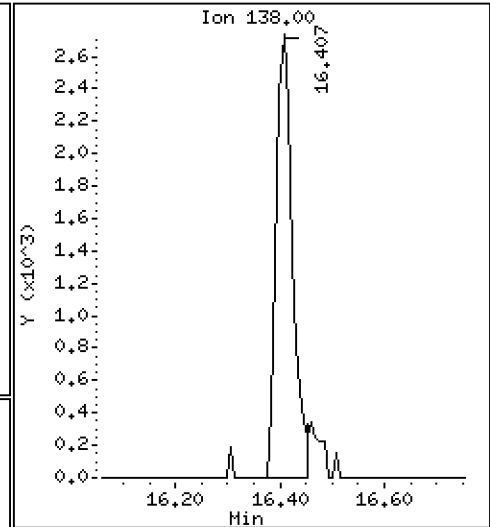
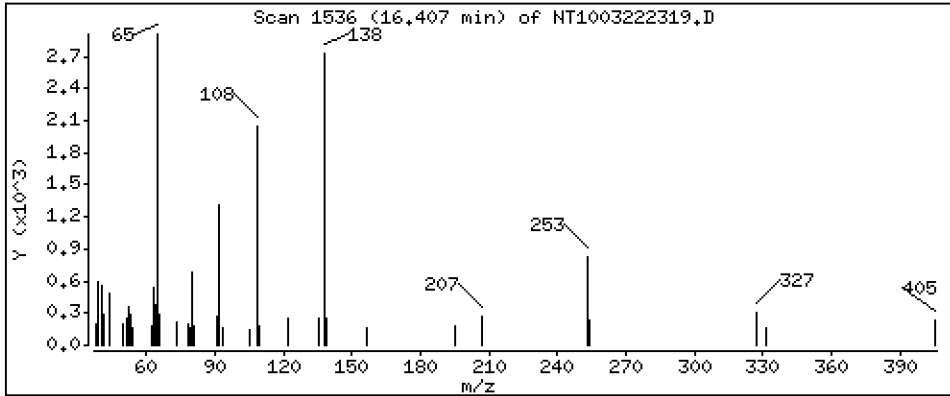
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

52 4-Nitroaniline

Concentration: 0.3071 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

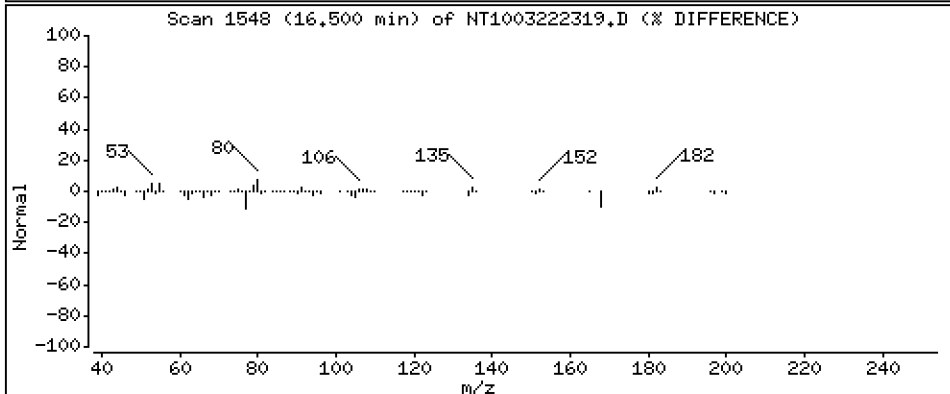
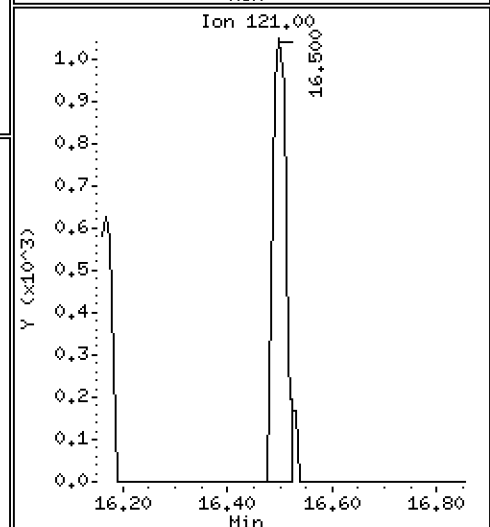
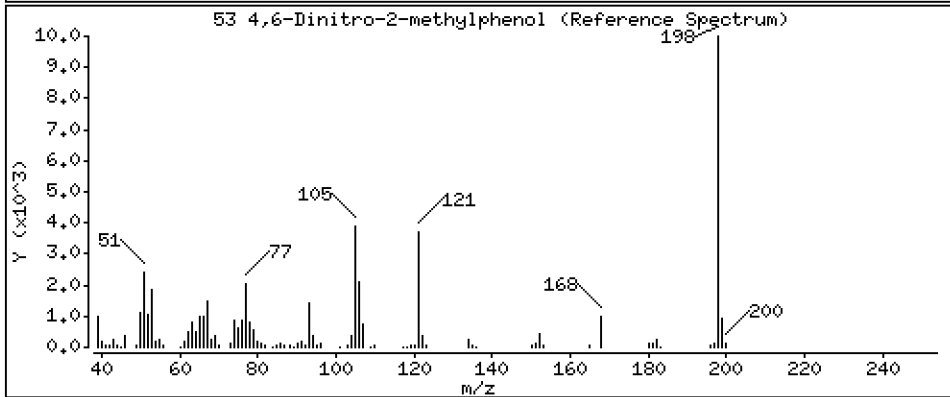
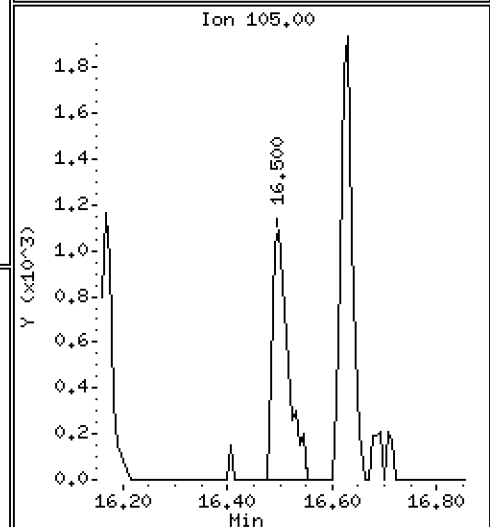
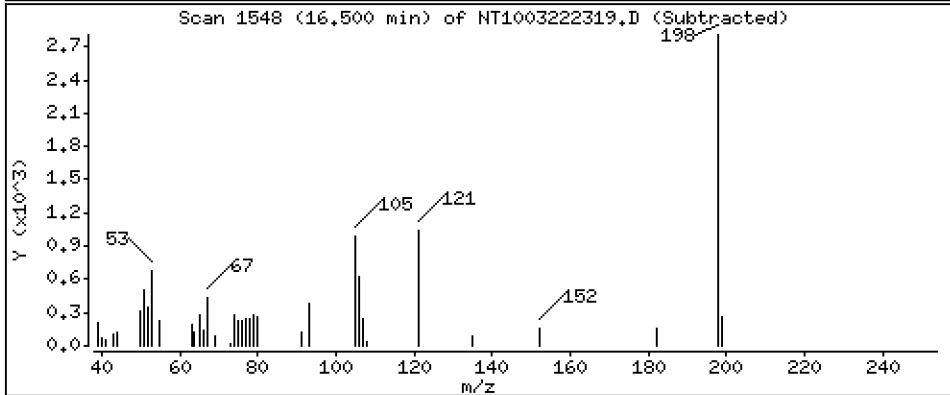
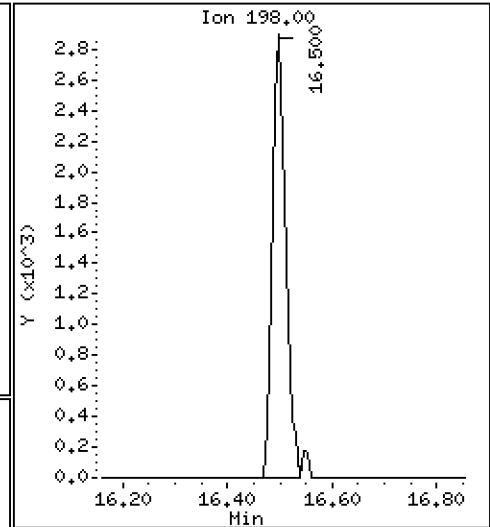
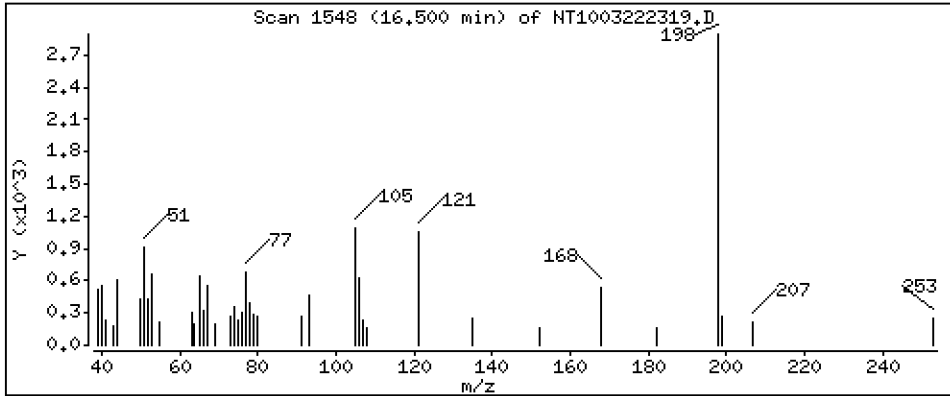
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

53 4,6-Dinitro-2-methylphenol

Concentration: 0,3306 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

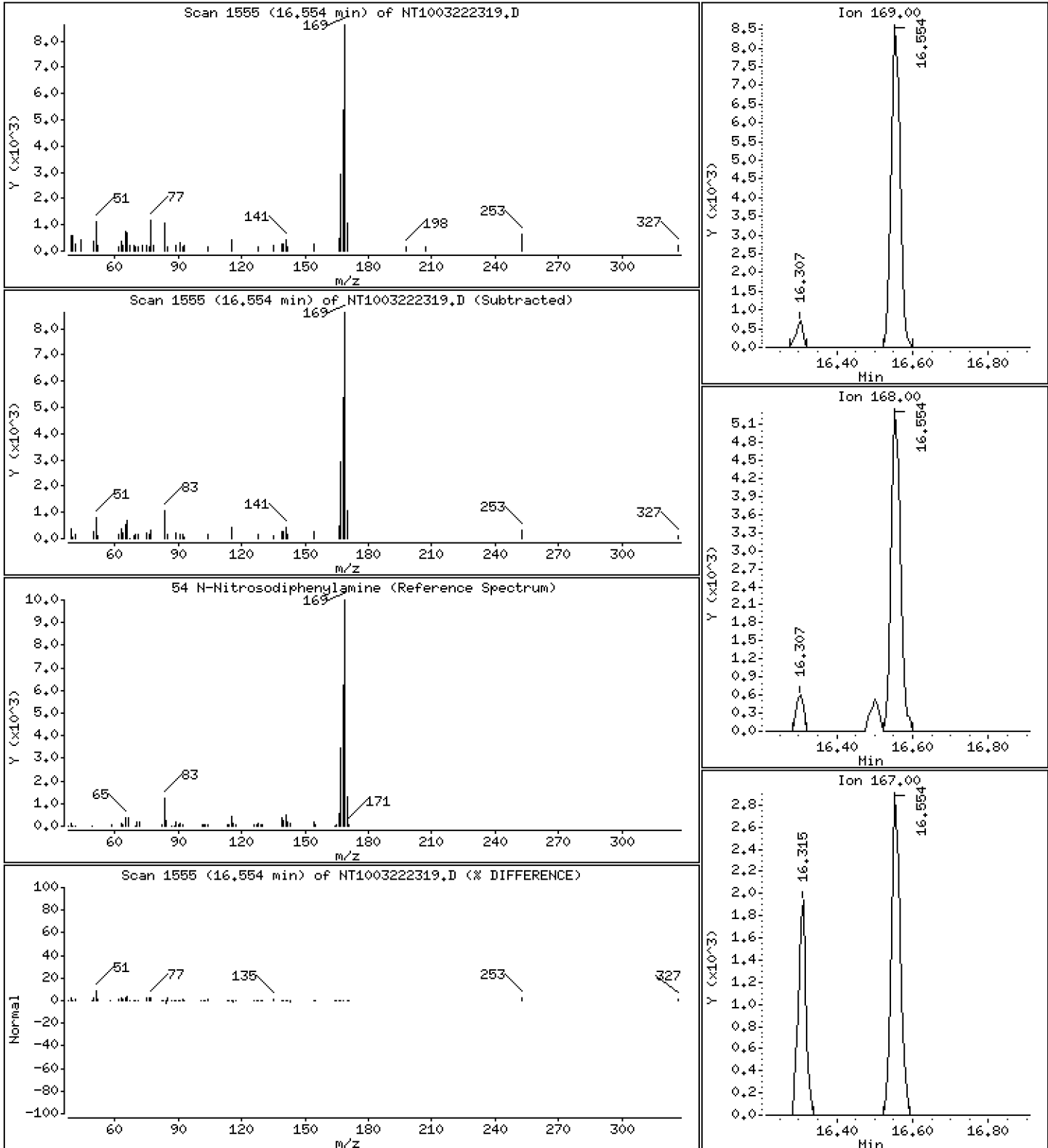
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

54 N-Nitrosodiphenylamine

Concentration: 0.2033 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

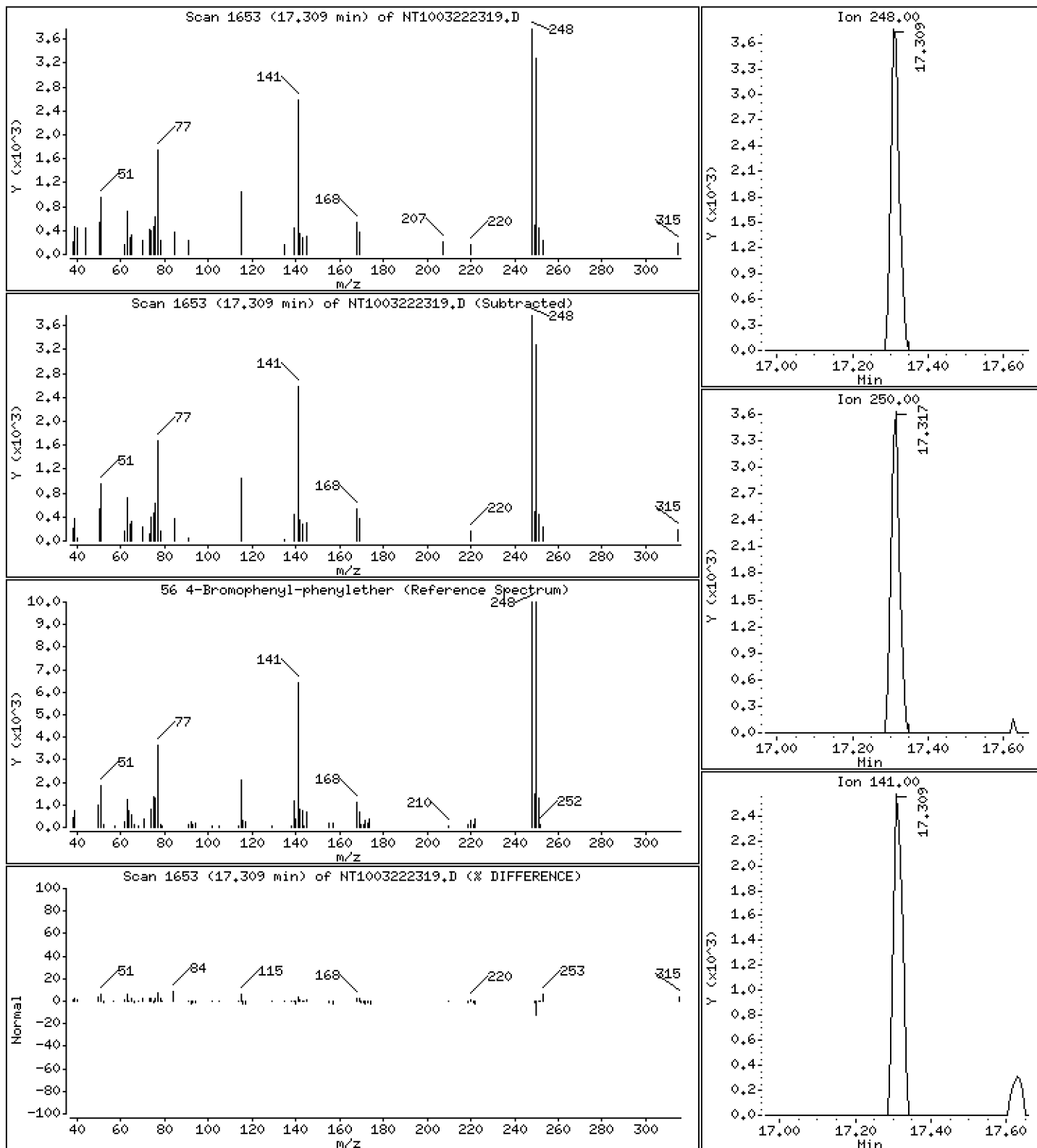
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 0,2181 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

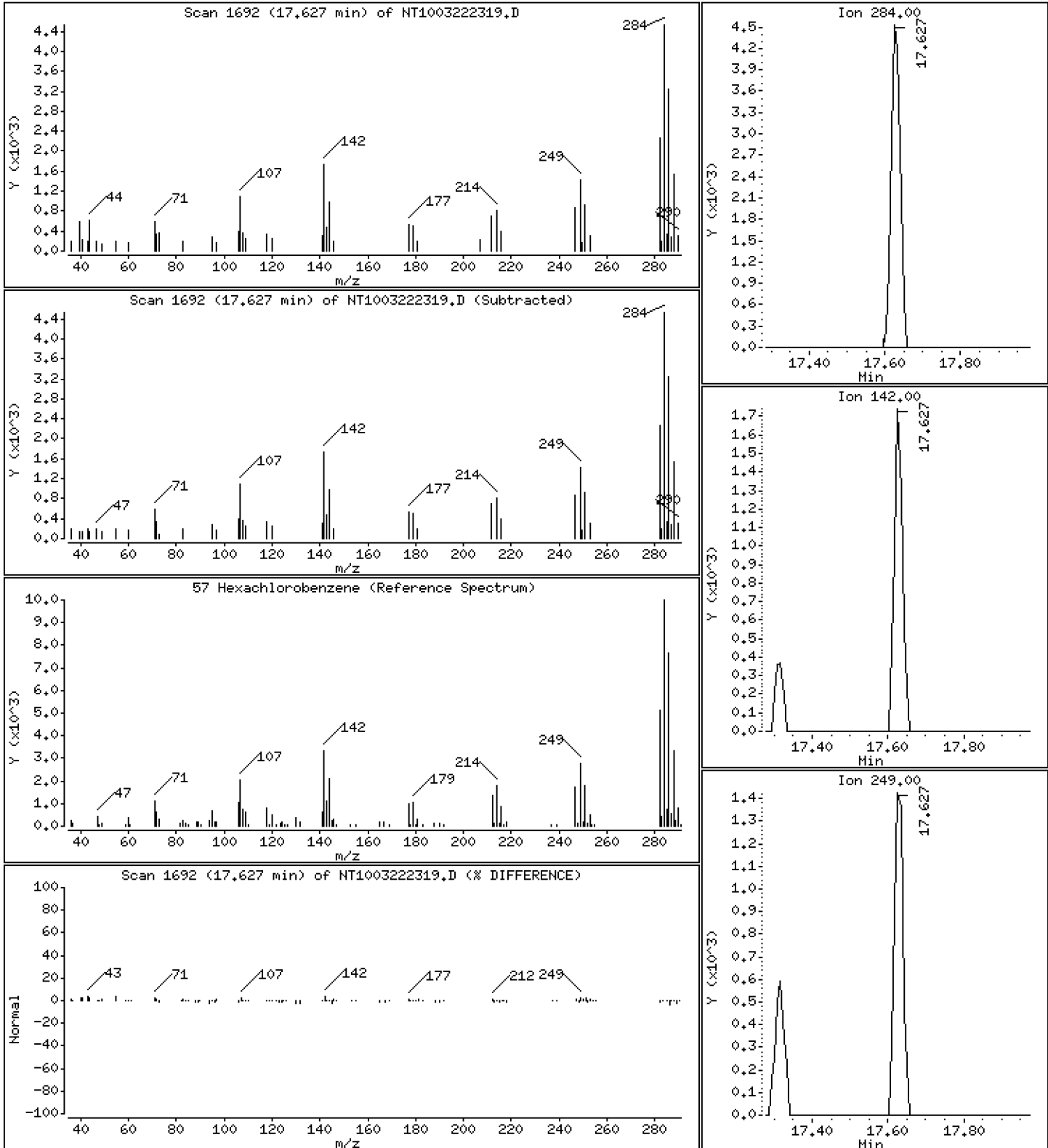
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

57 Hexachlorobenzene

Concentration: 0,2574 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

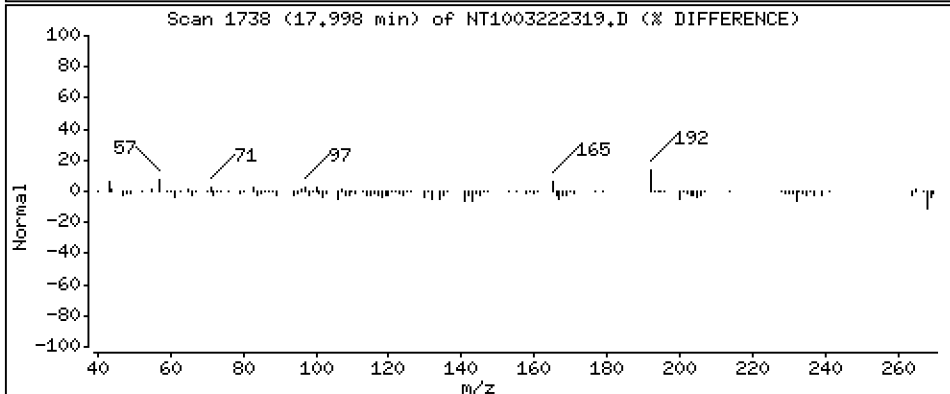
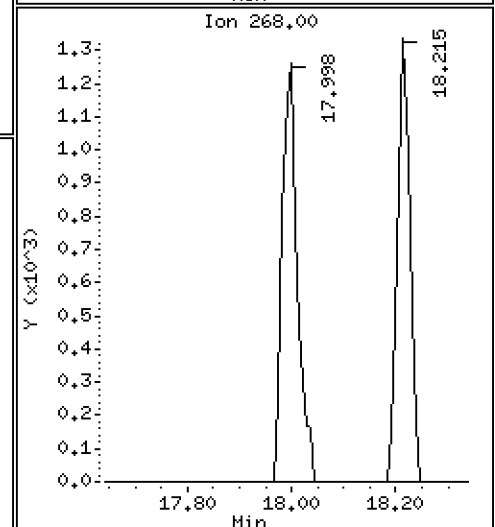
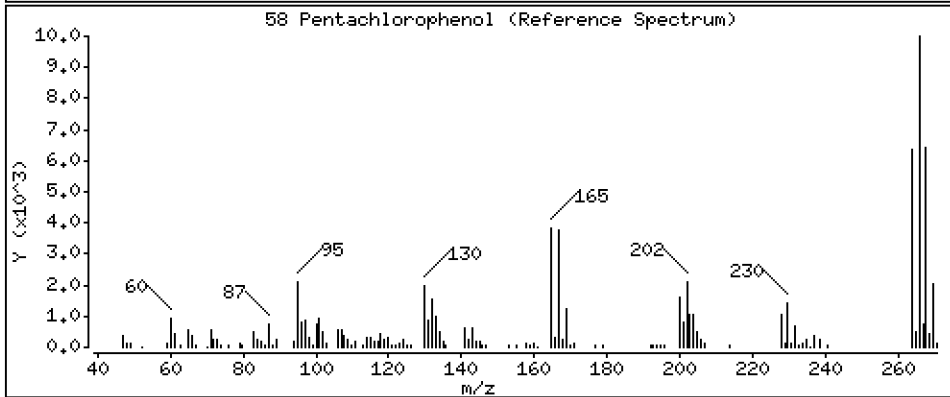
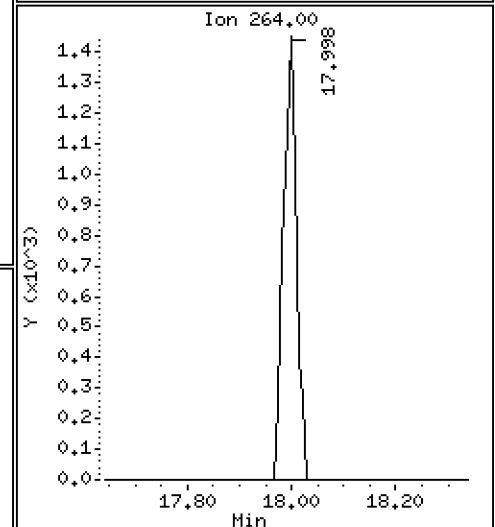
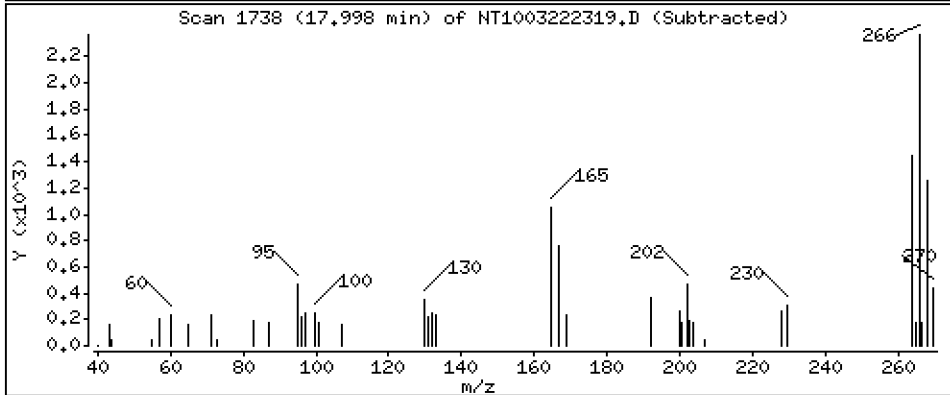
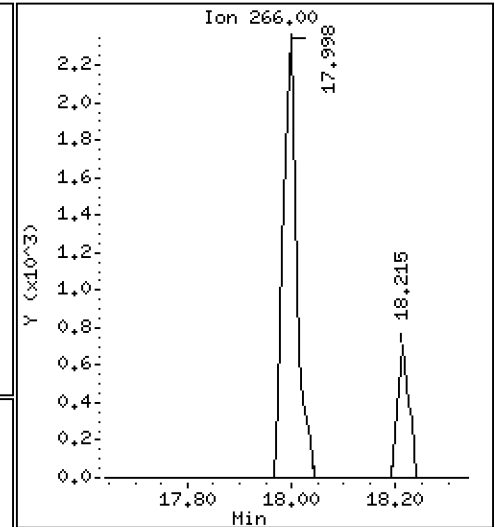
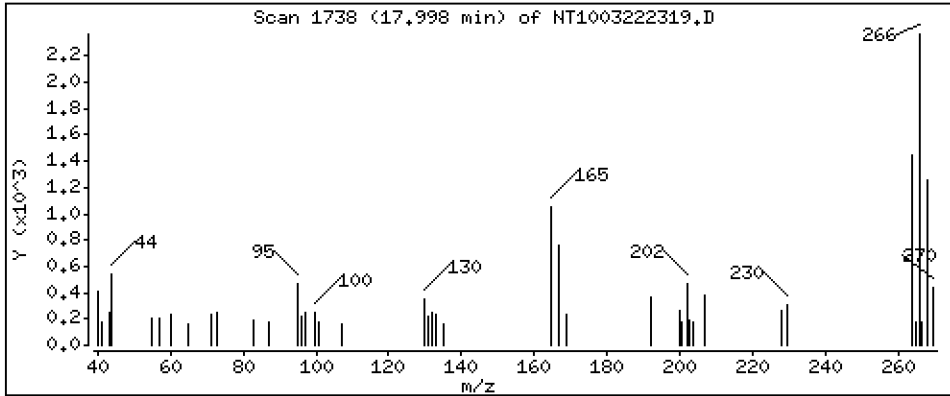
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 0,2485 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

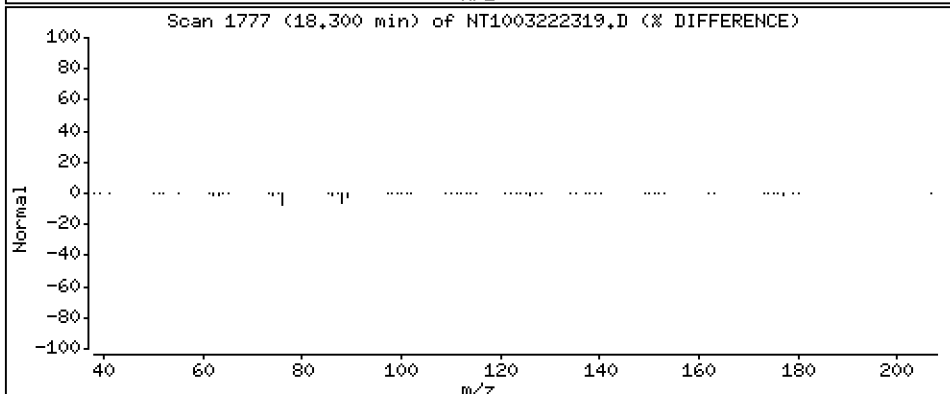
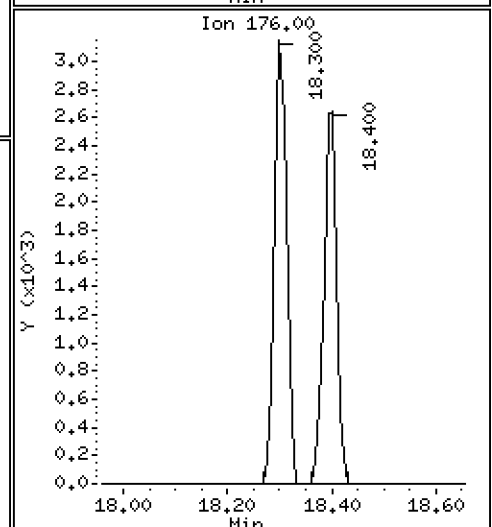
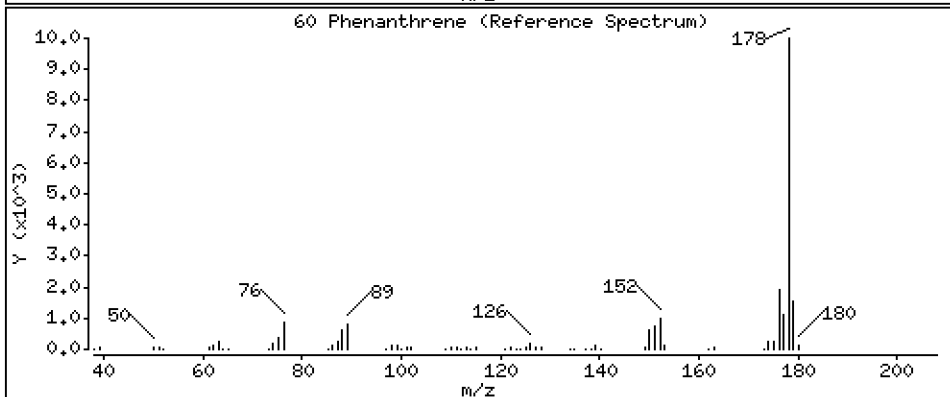
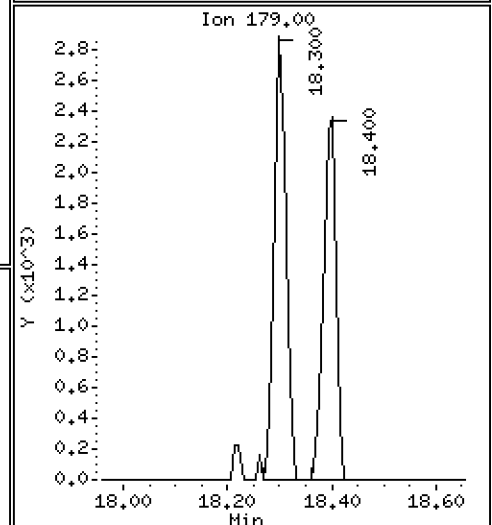
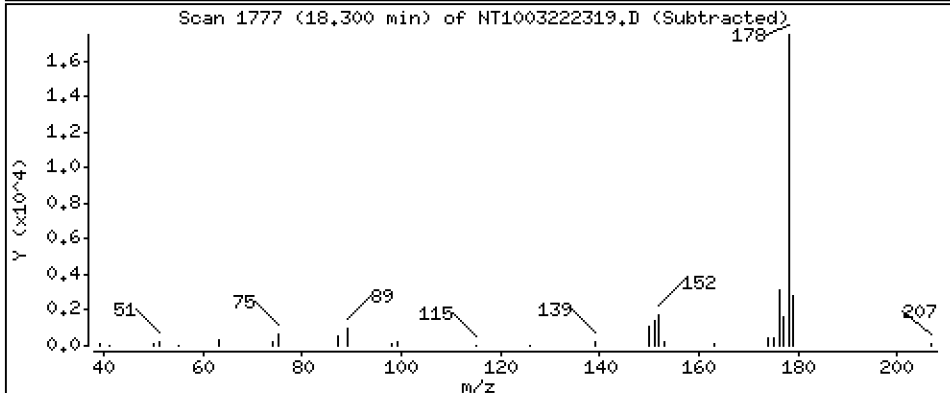
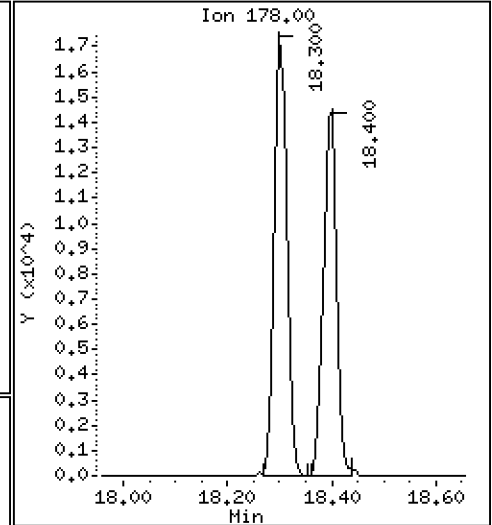
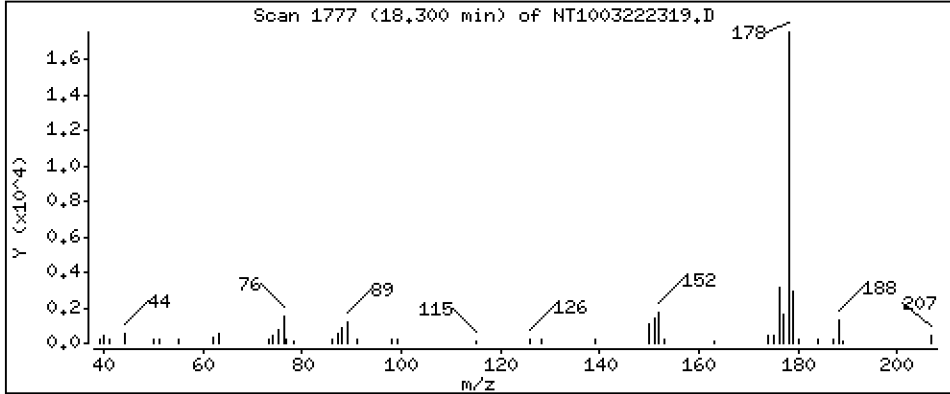
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 0,2096 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

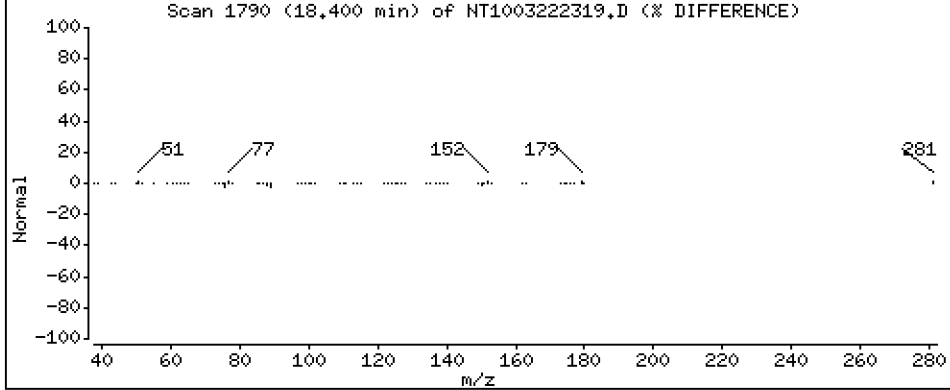
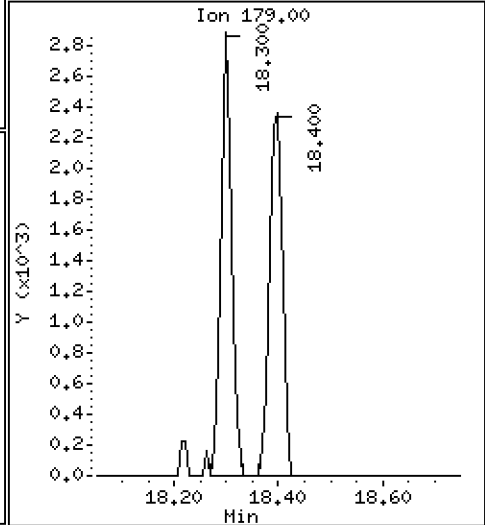
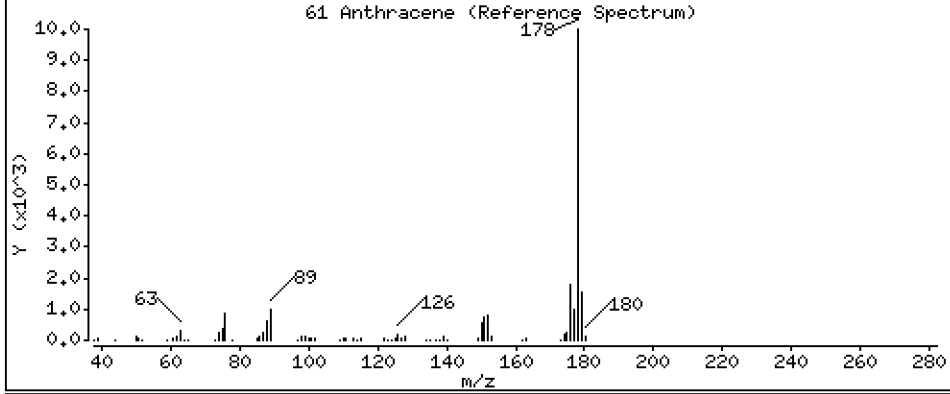
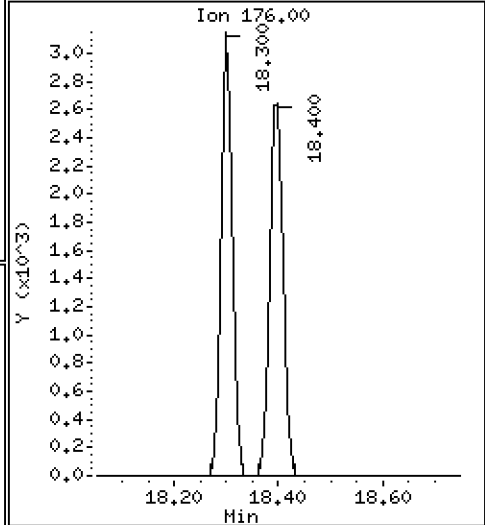
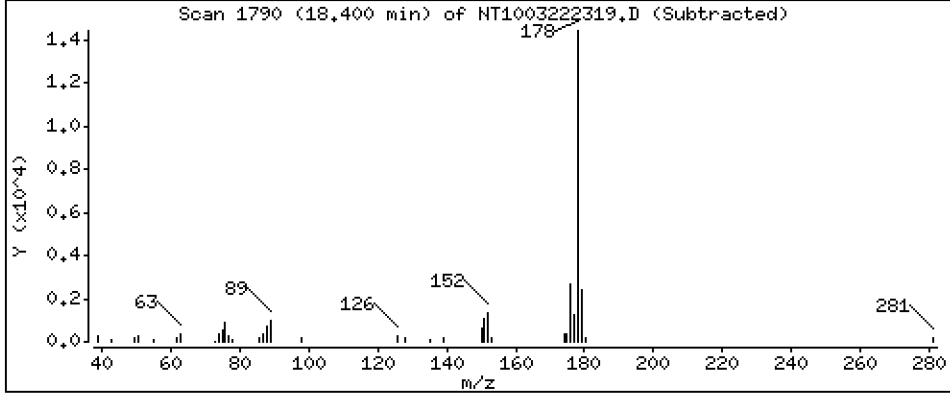
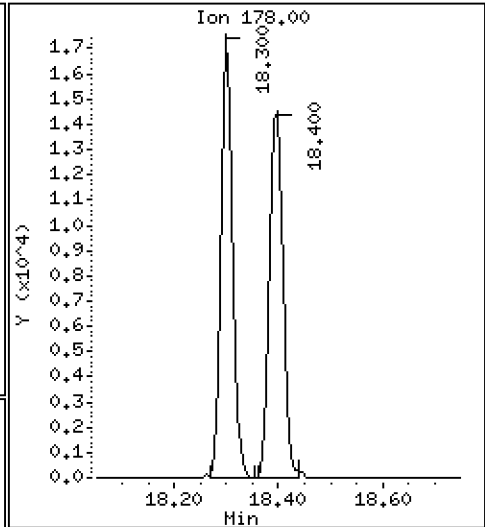
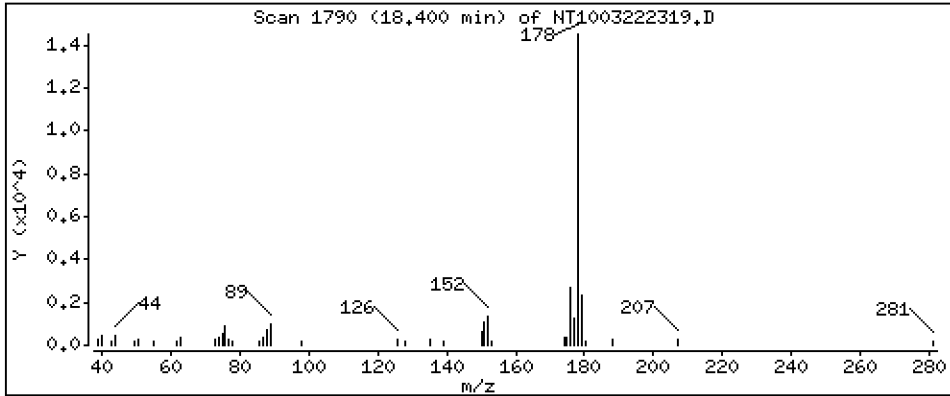
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 0,2007 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

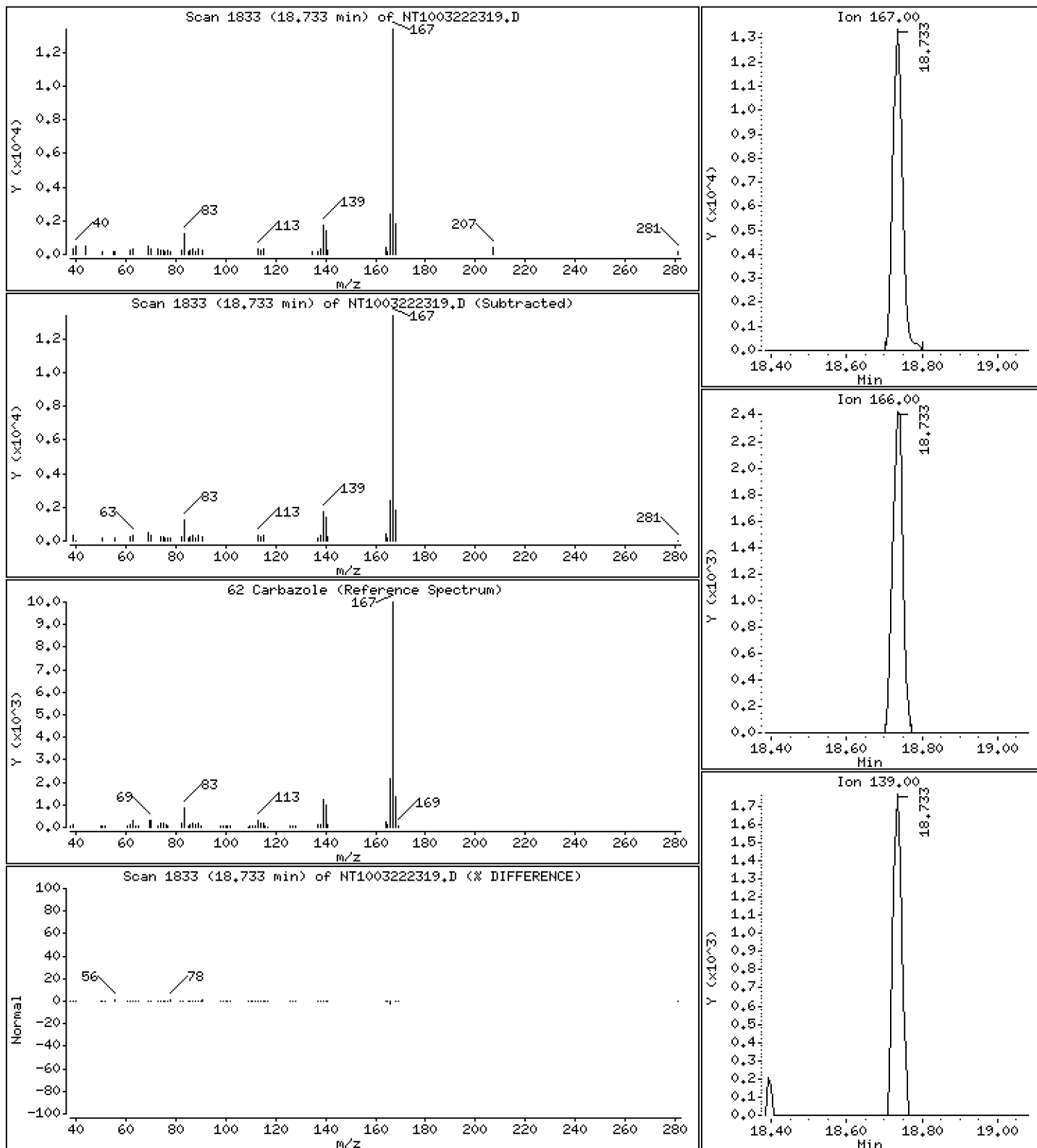
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 0,1992 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

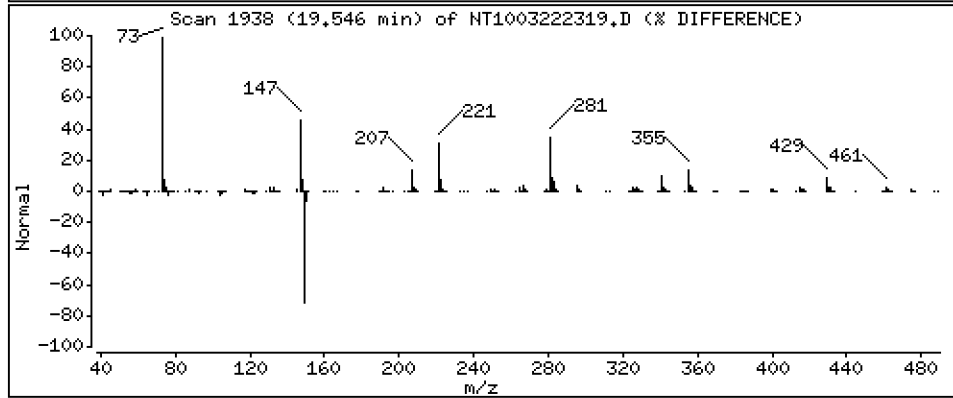
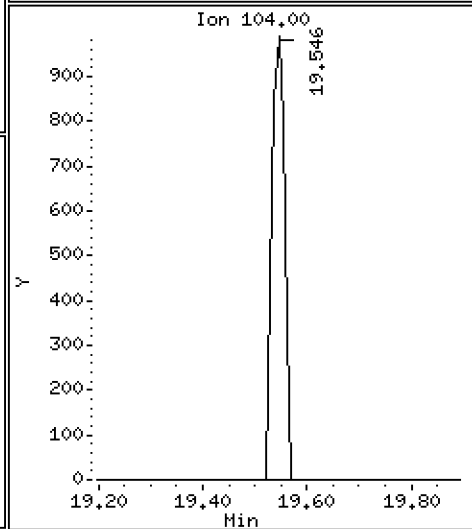
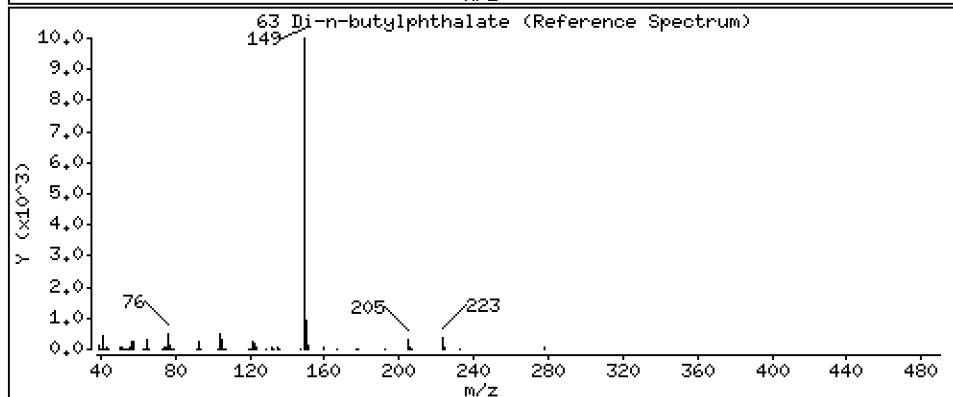
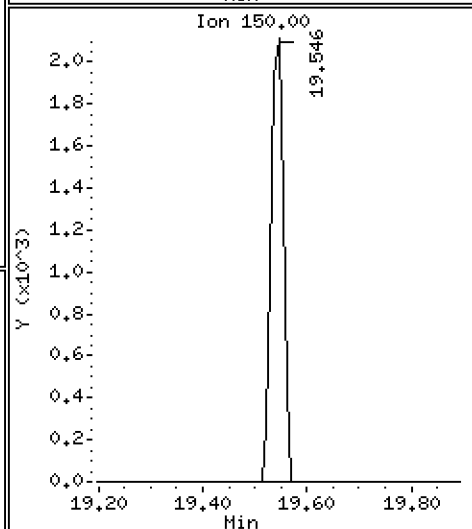
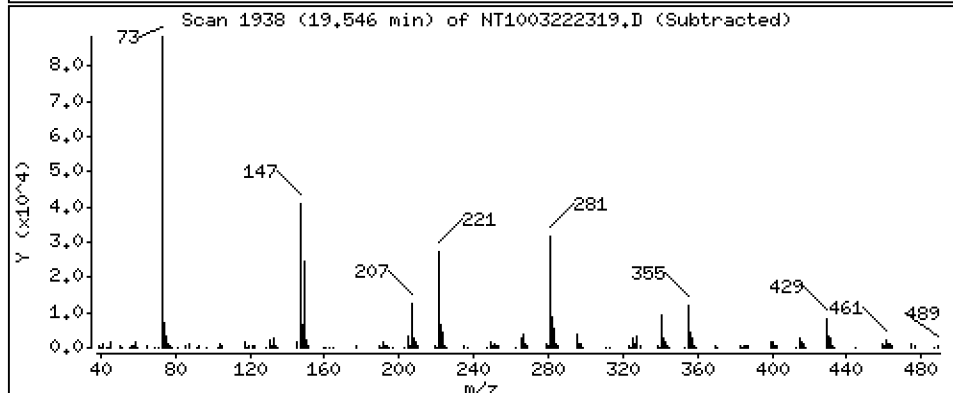
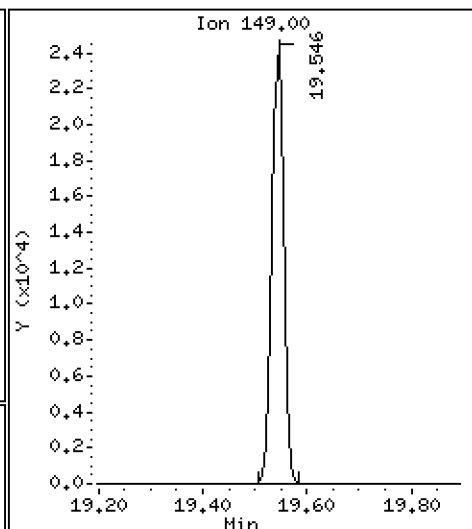
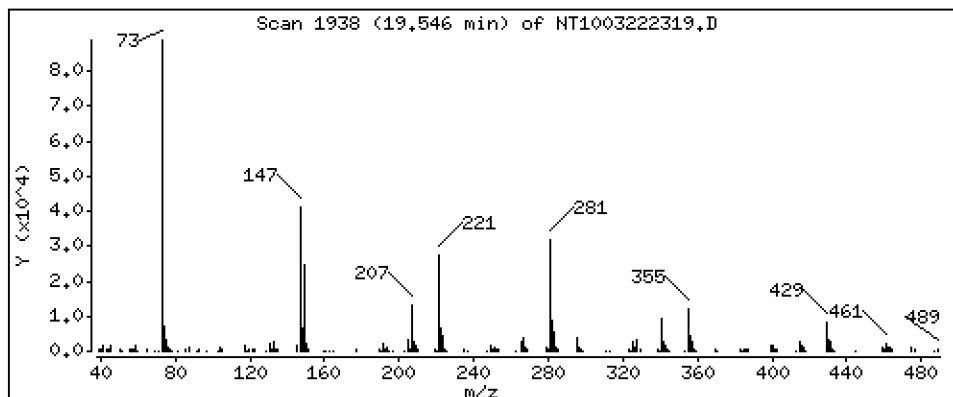
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 0,2388 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

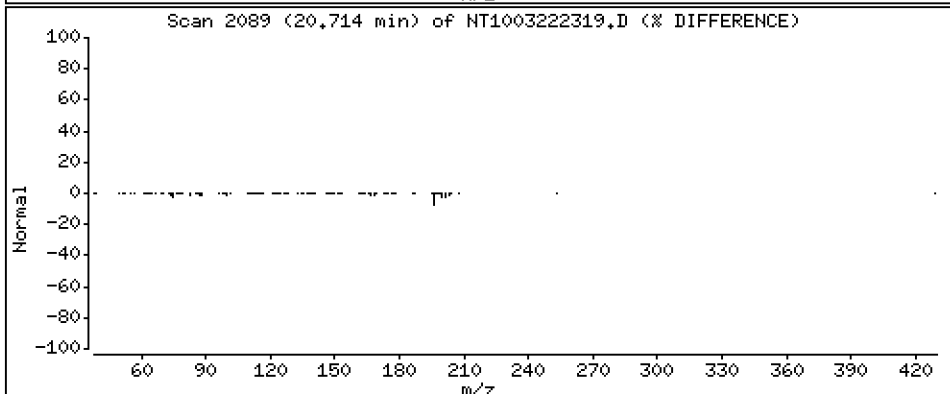
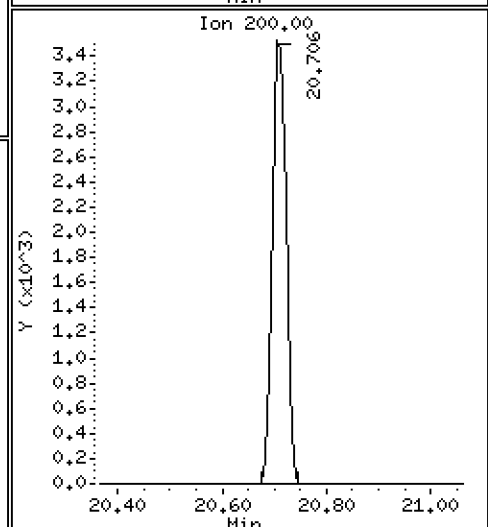
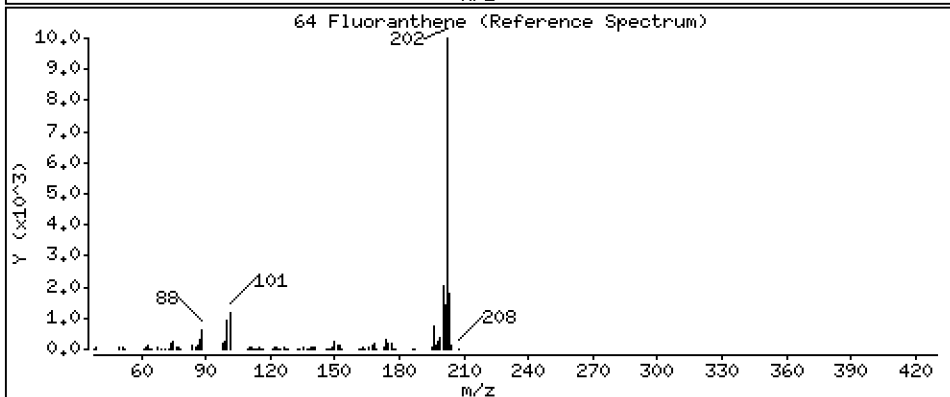
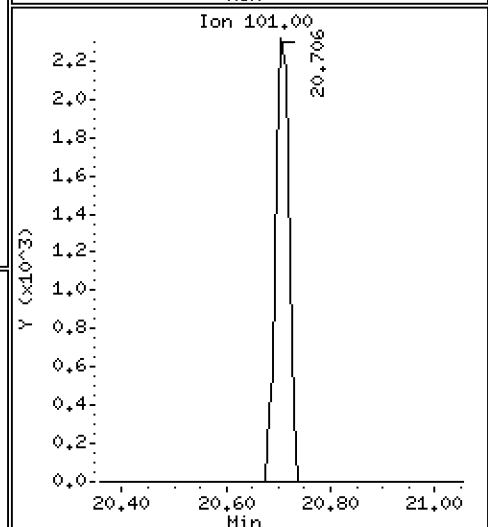
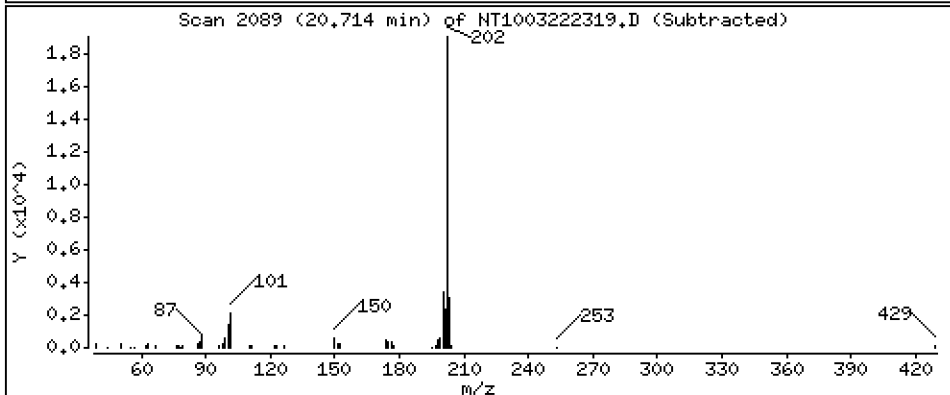
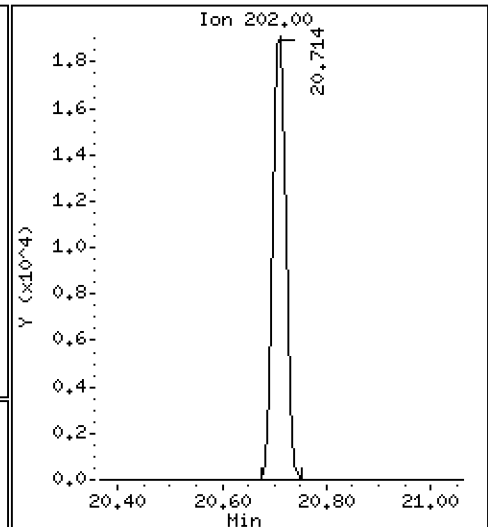
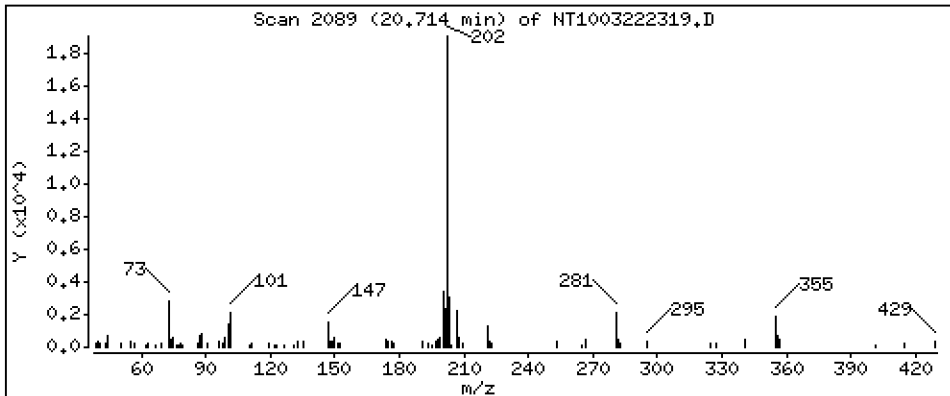
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 0,1801 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

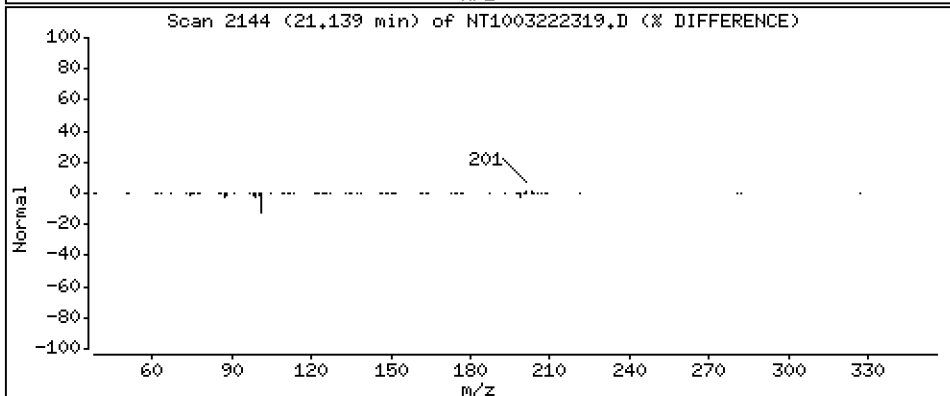
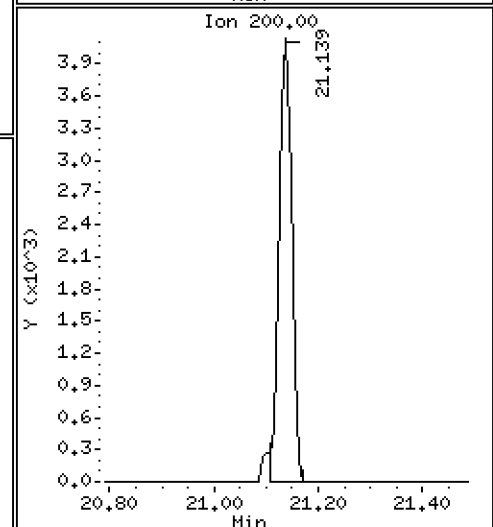
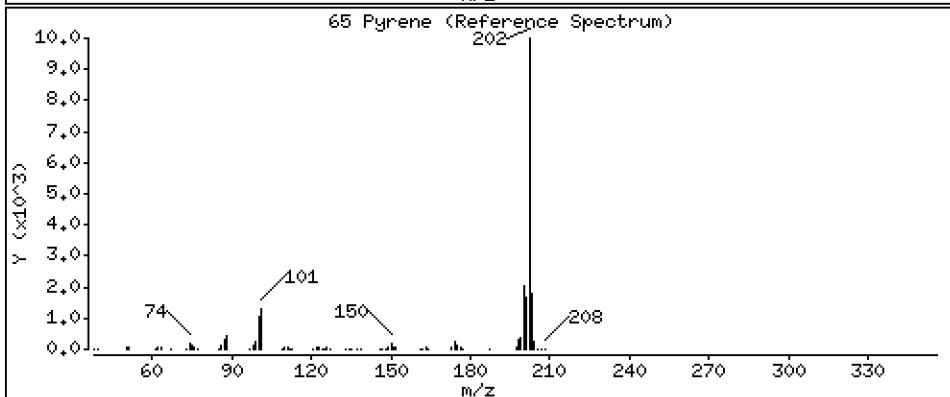
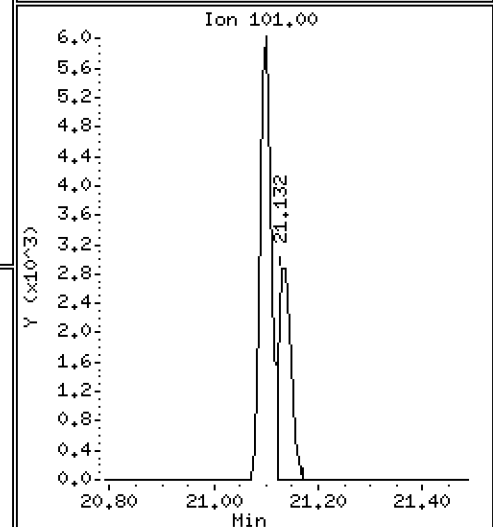
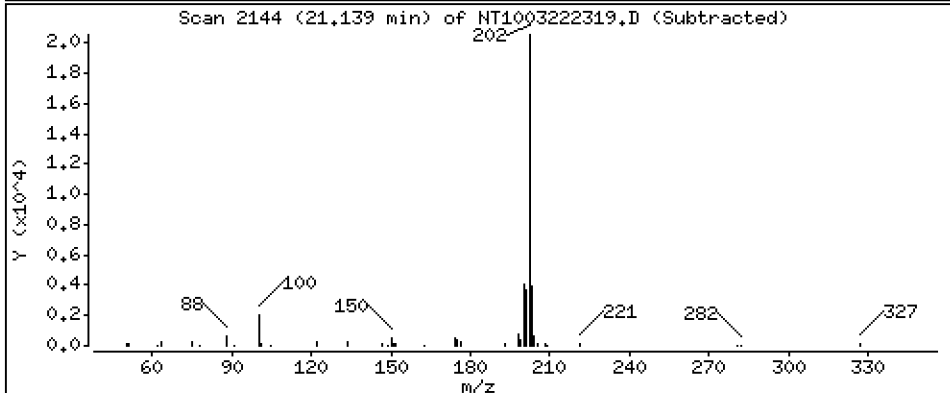
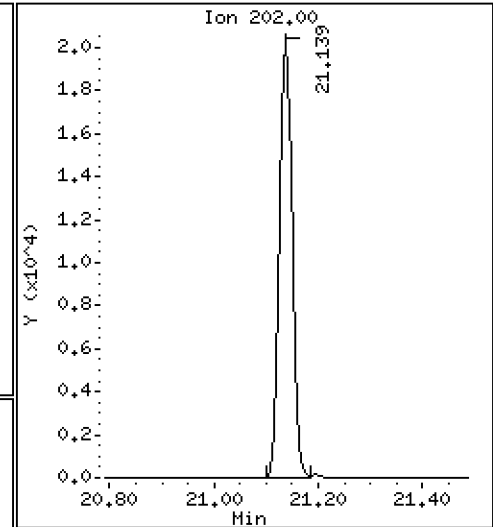
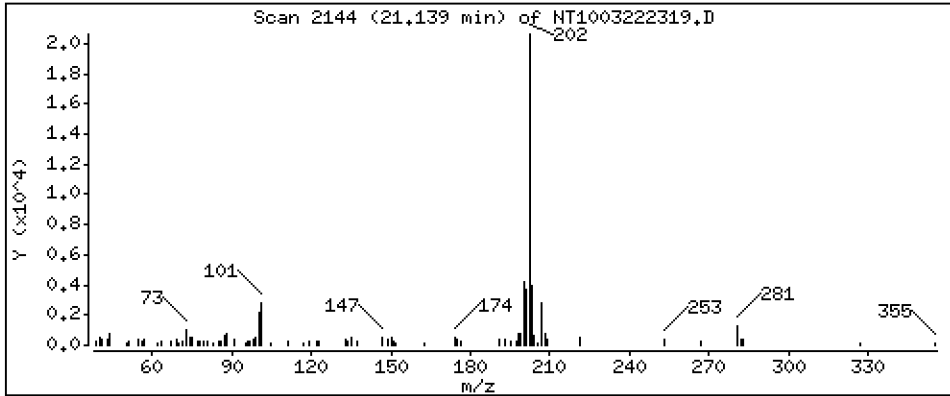
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 0,1791 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

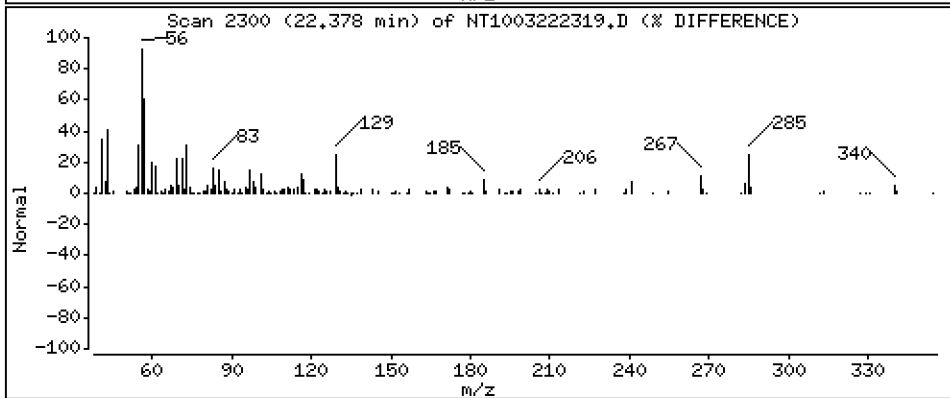
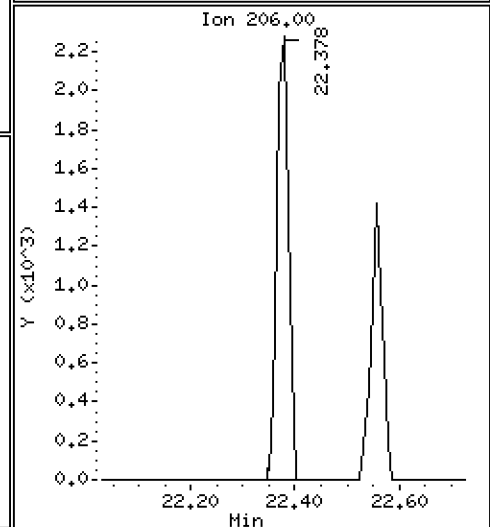
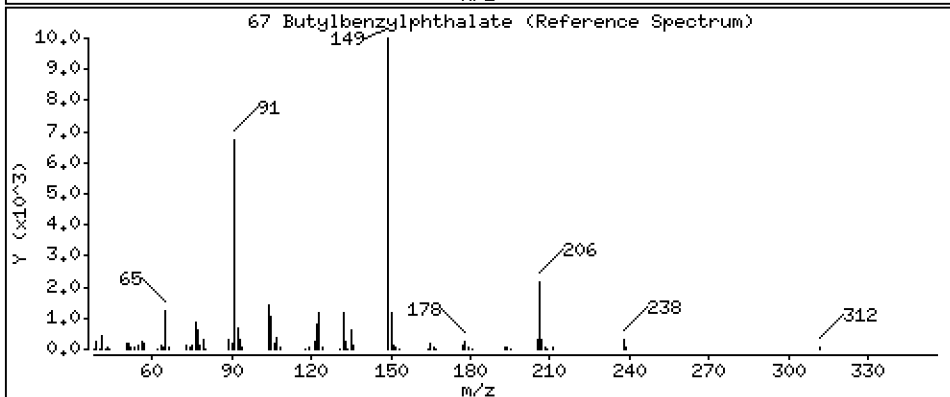
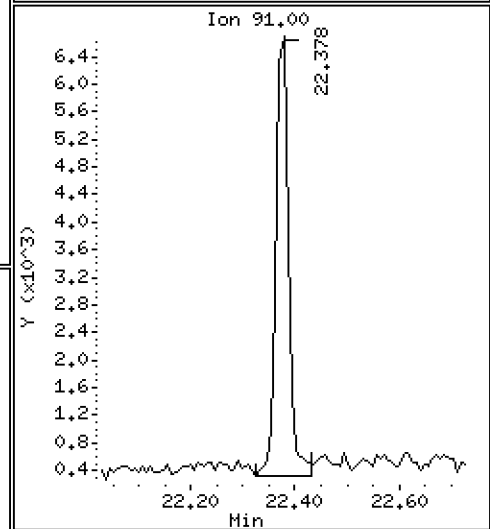
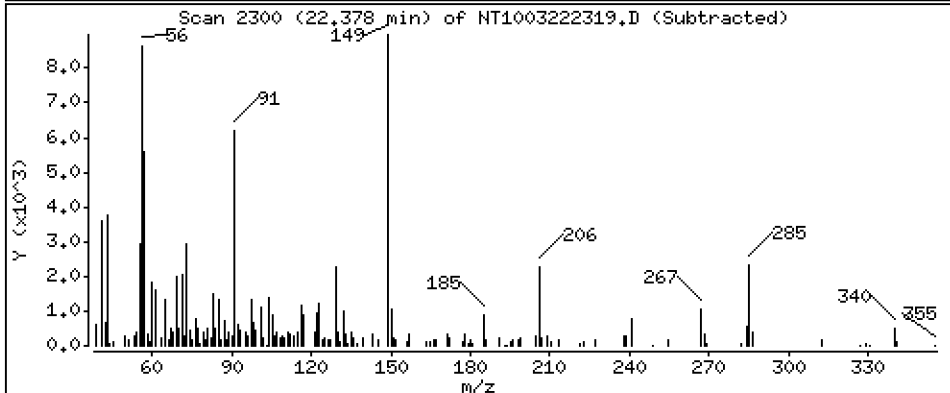
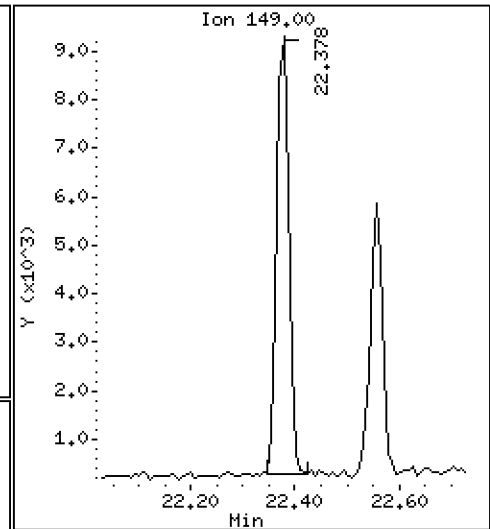
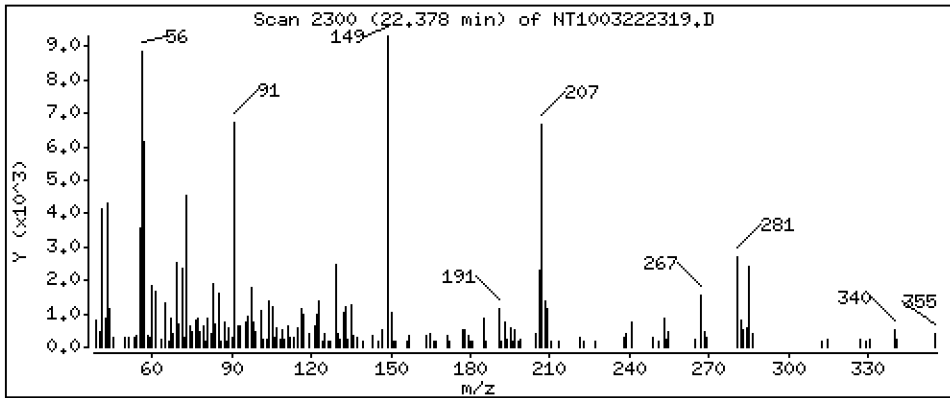
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 0,2157 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

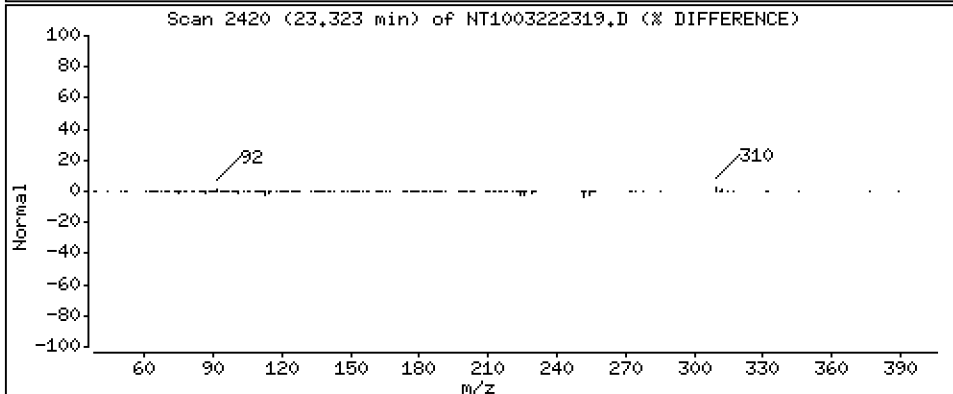
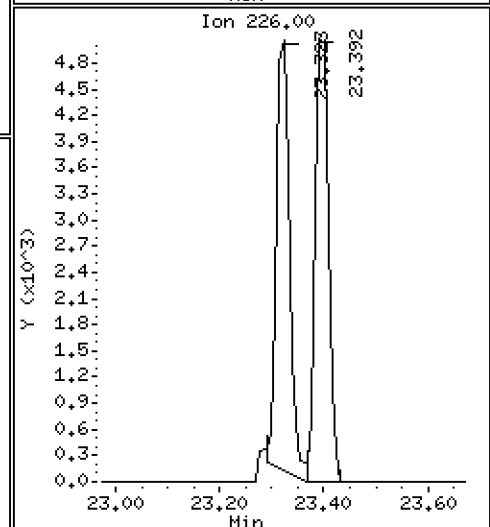
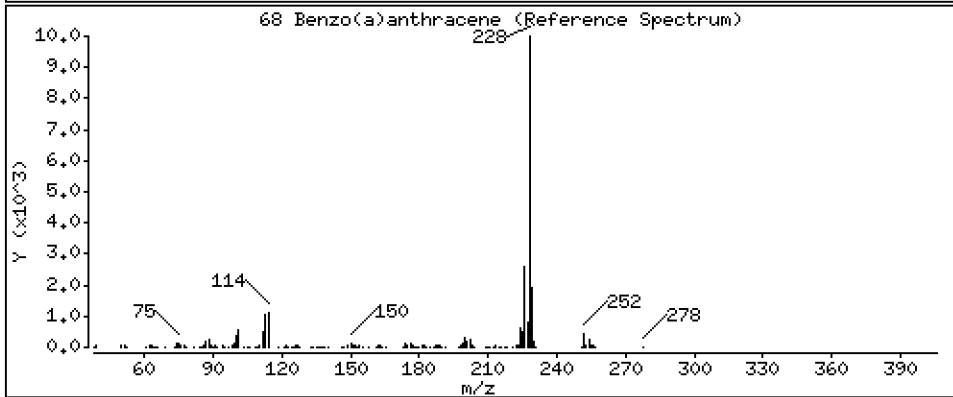
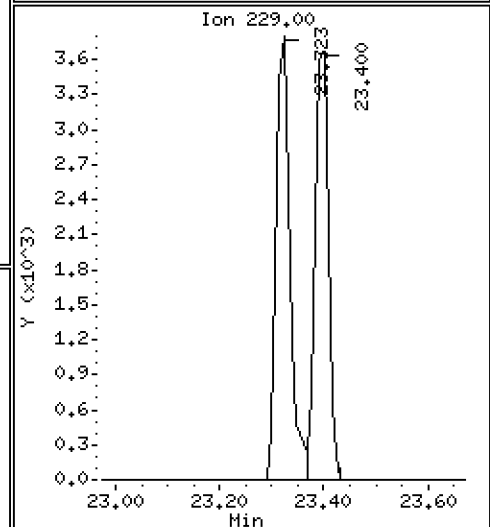
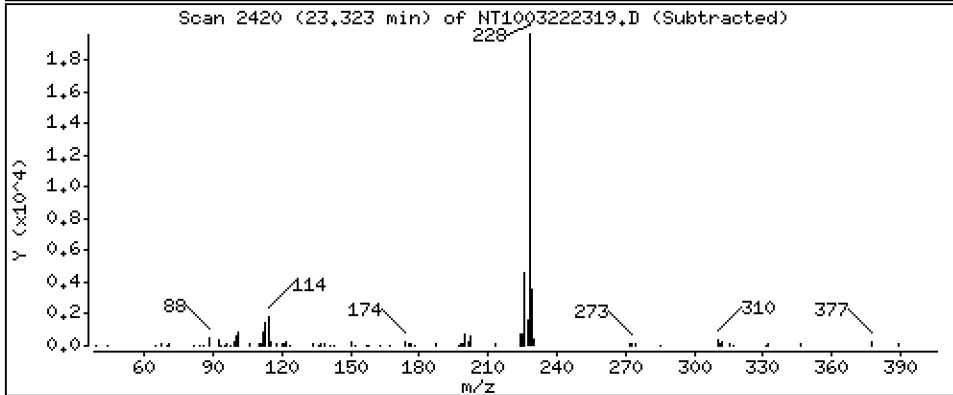
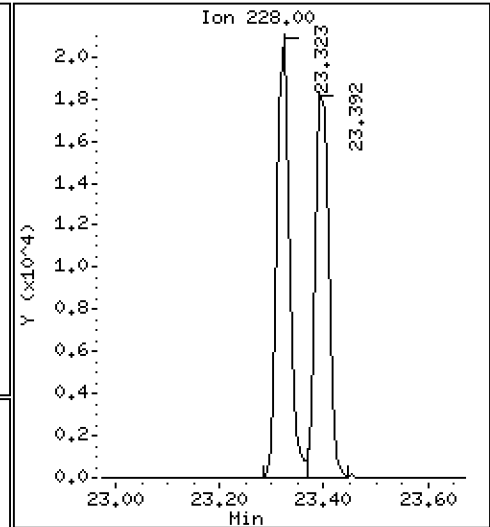
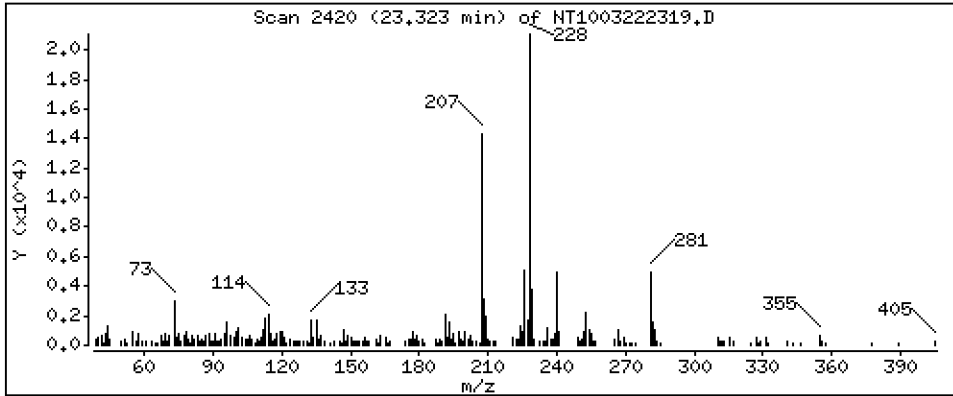
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 0,2146 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

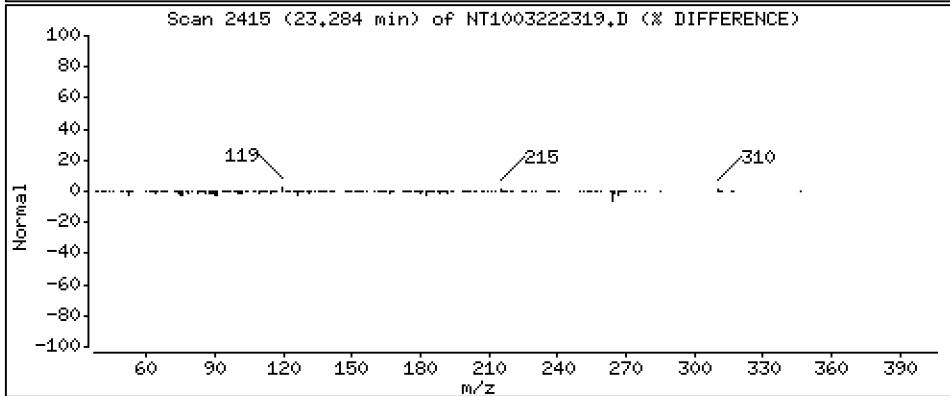
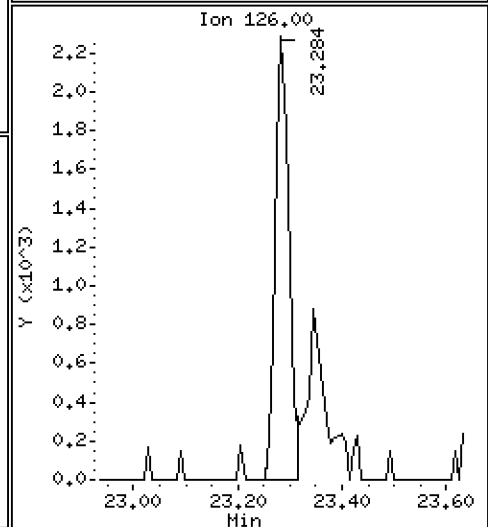
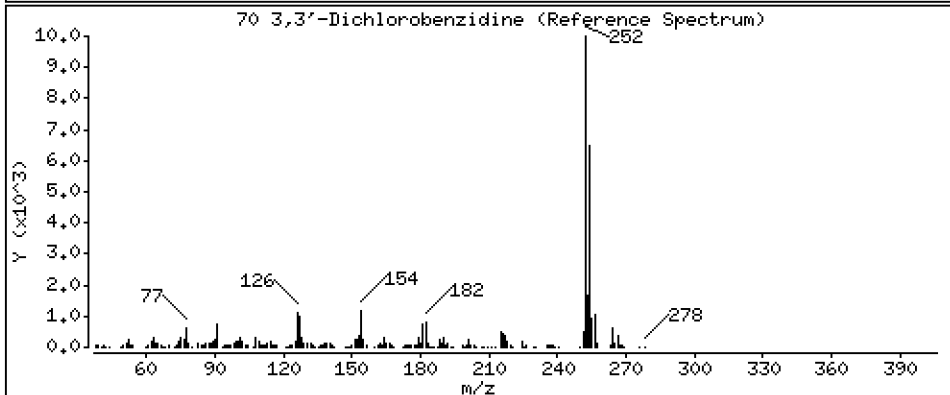
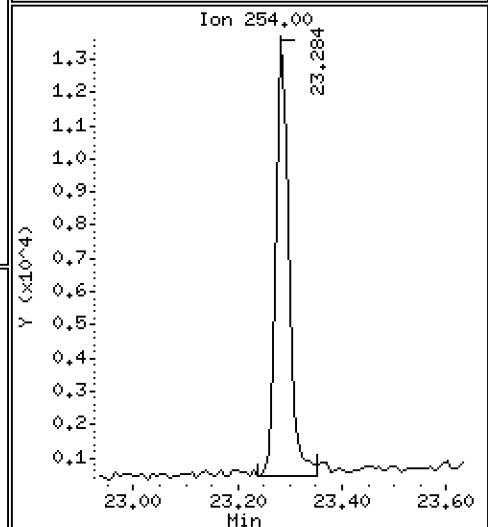
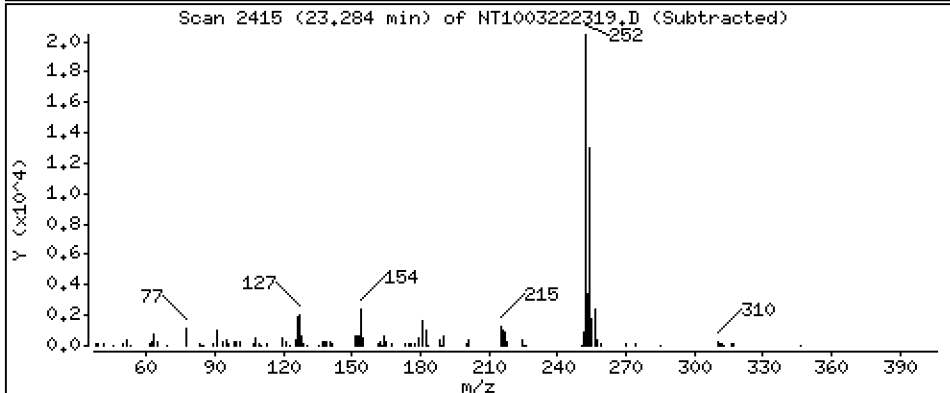
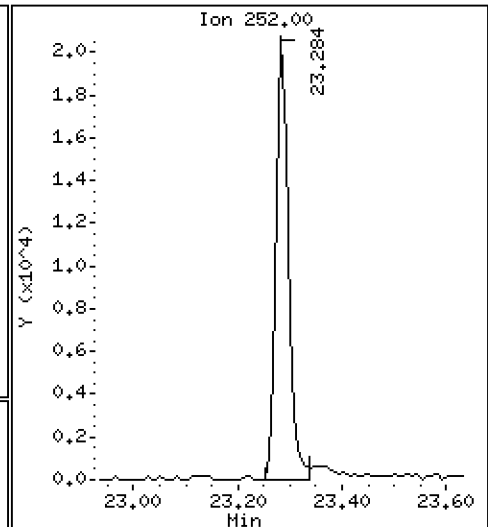
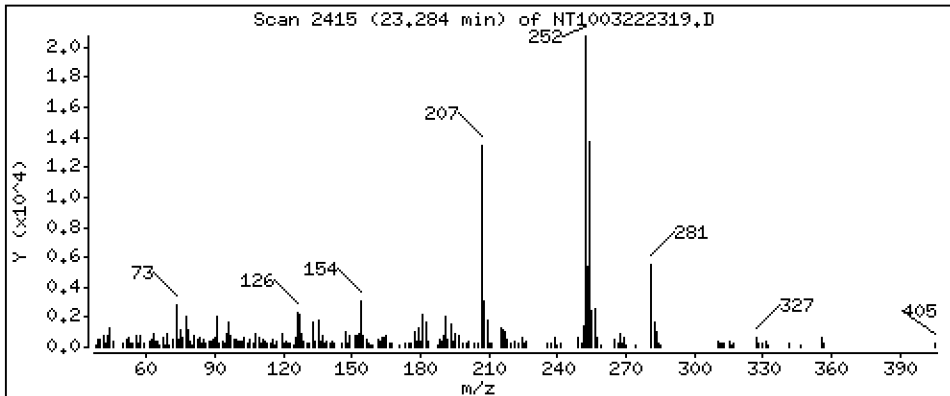
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

70 3,3'-Dichlorobenzidine

Concentration: 0,6447 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

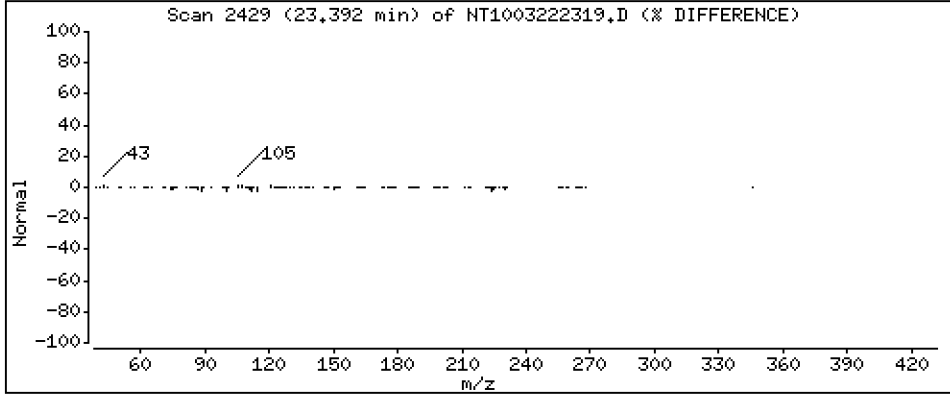
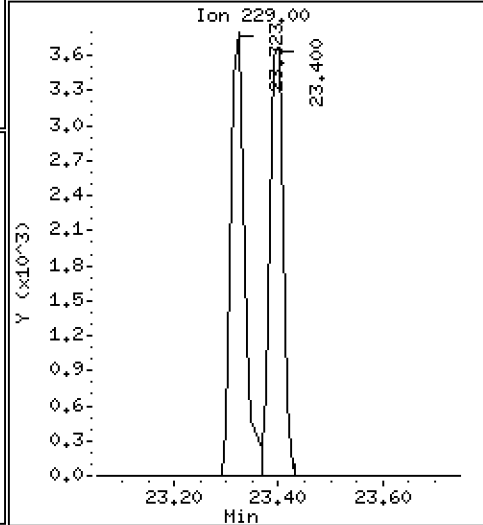
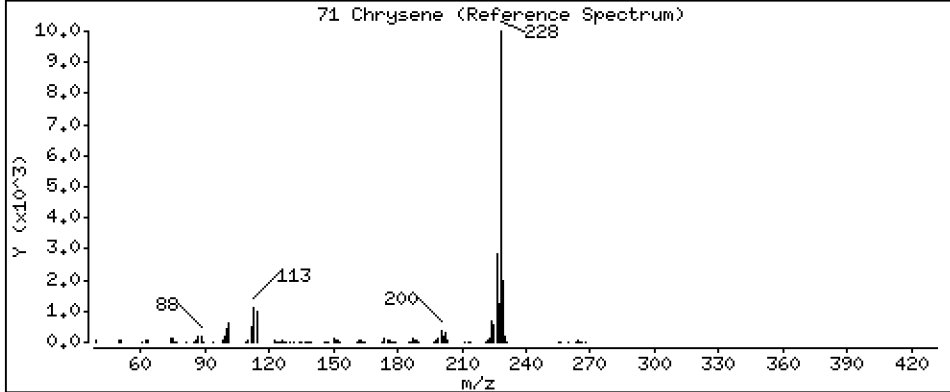
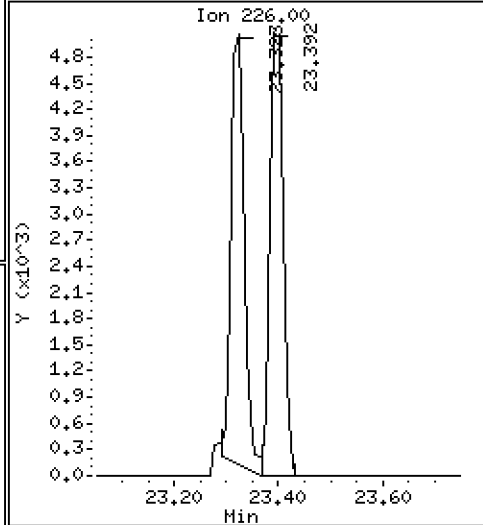
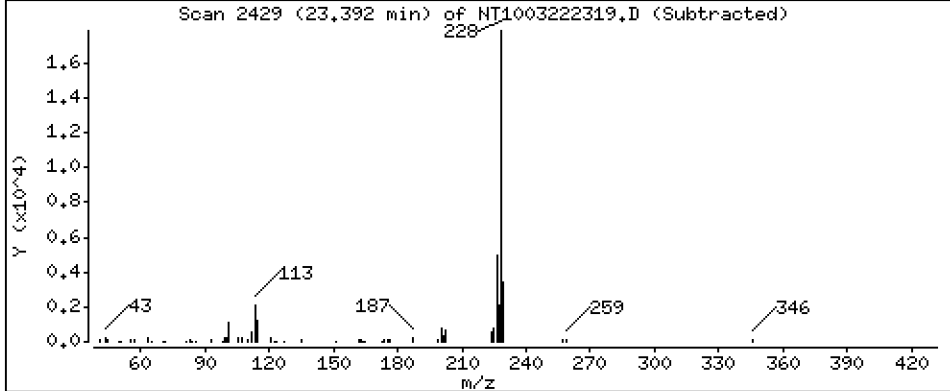
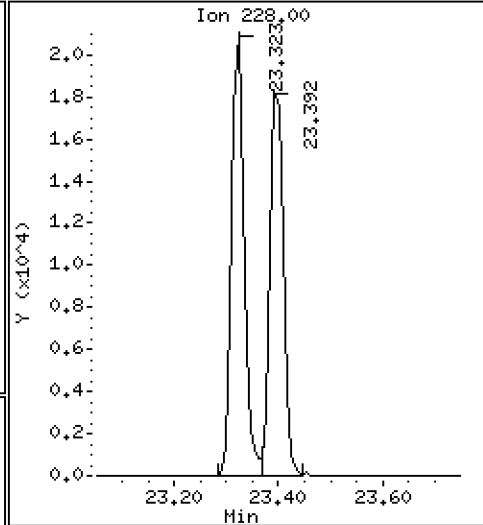
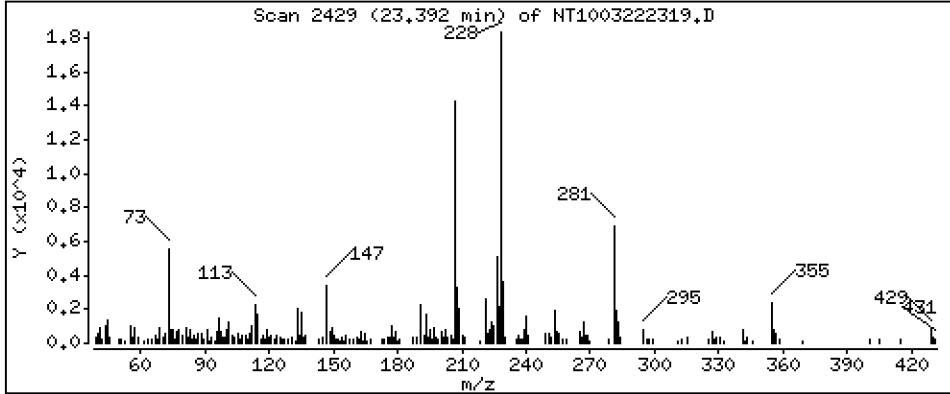
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 0,2044 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

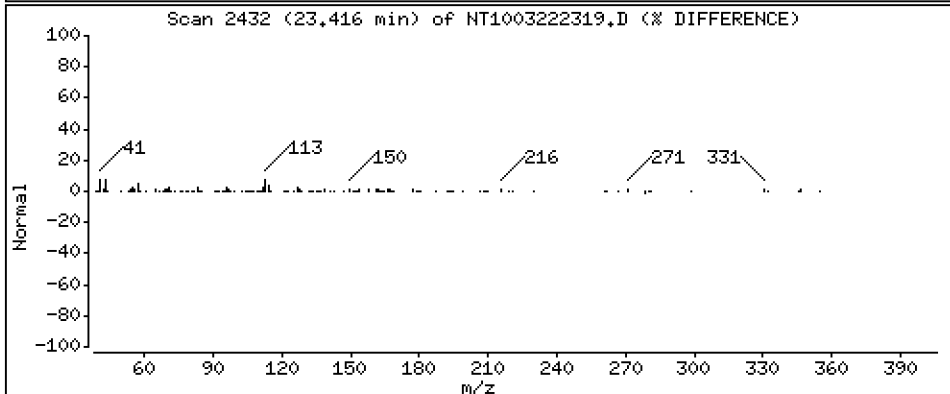
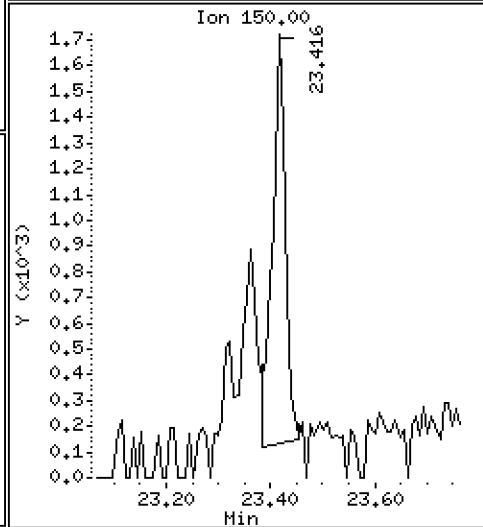
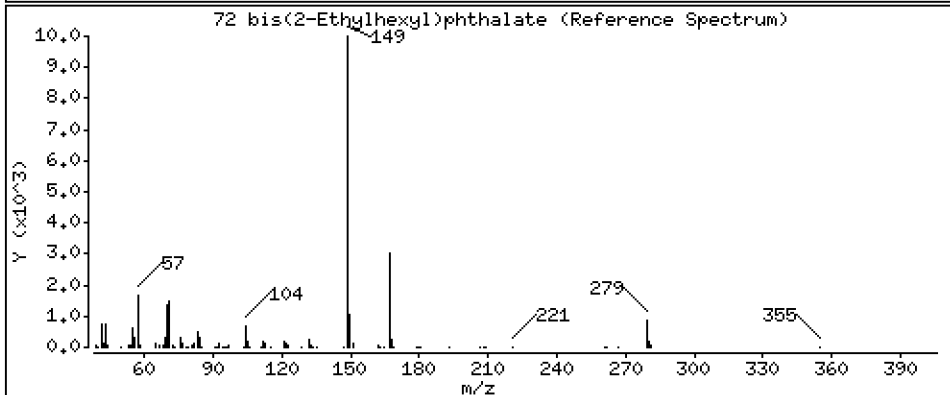
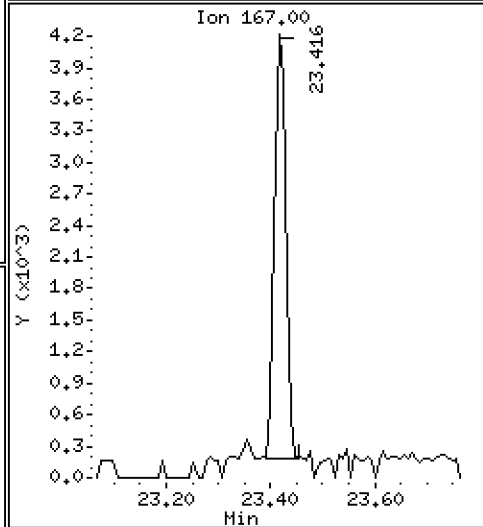
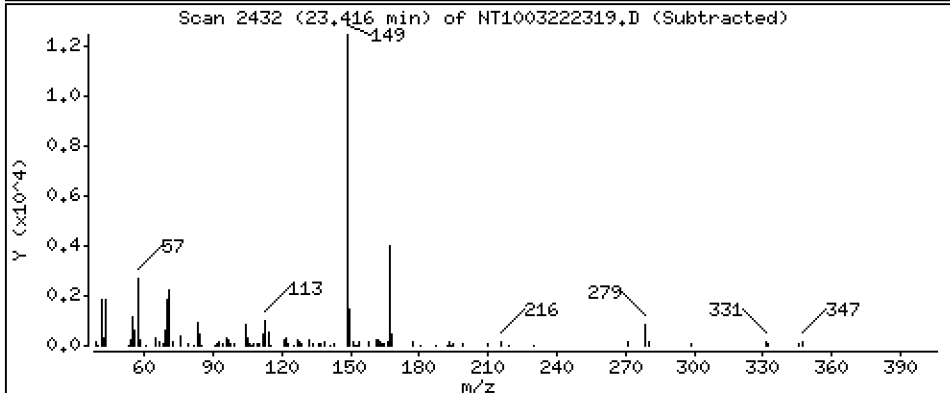
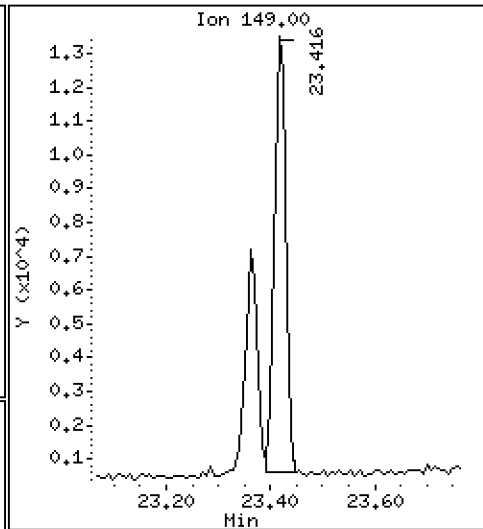
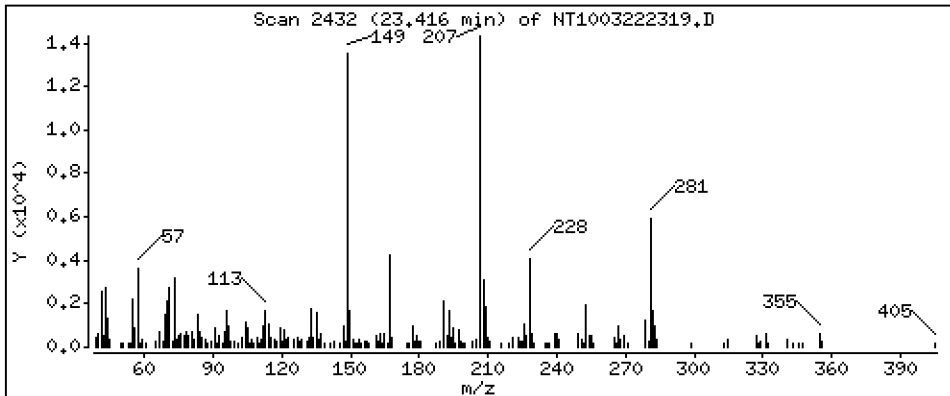
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 0,1872 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

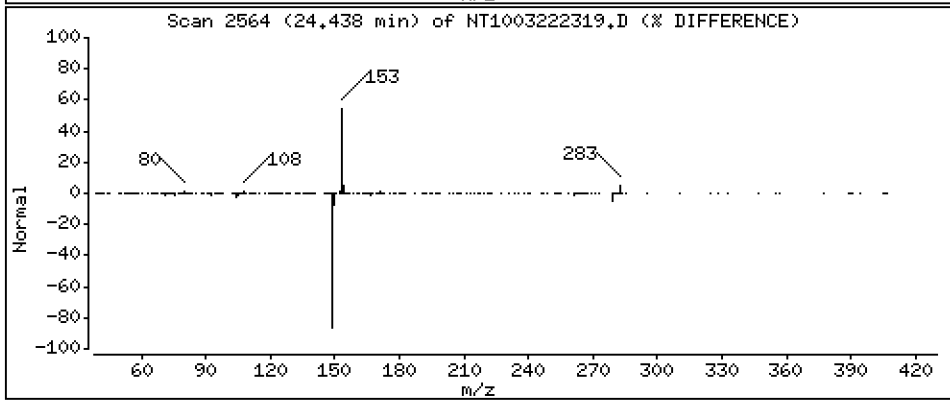
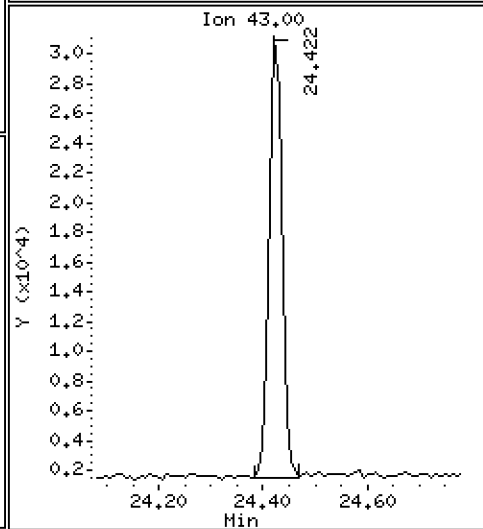
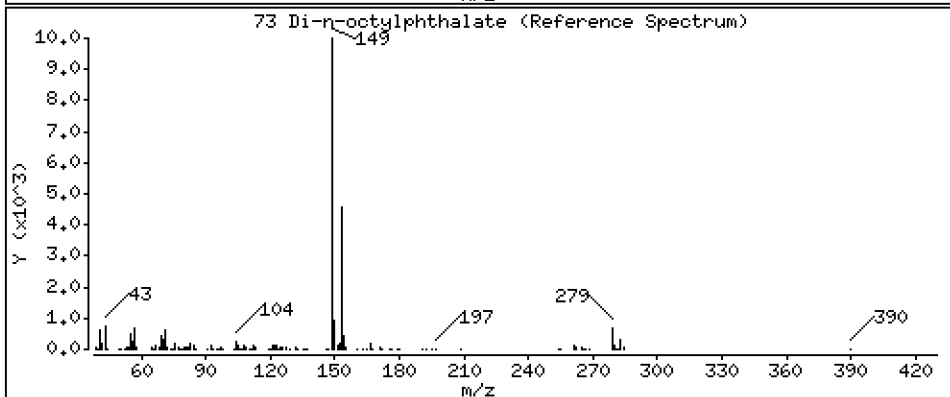
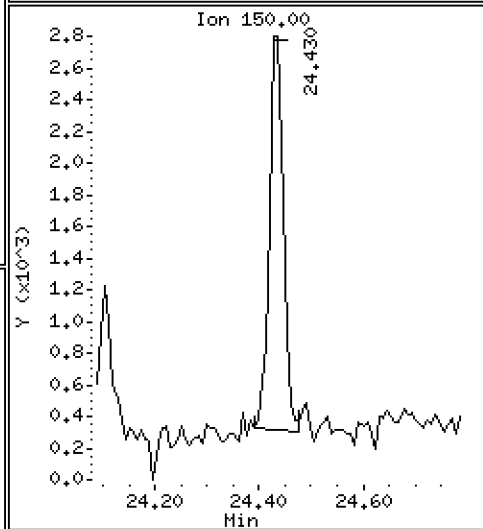
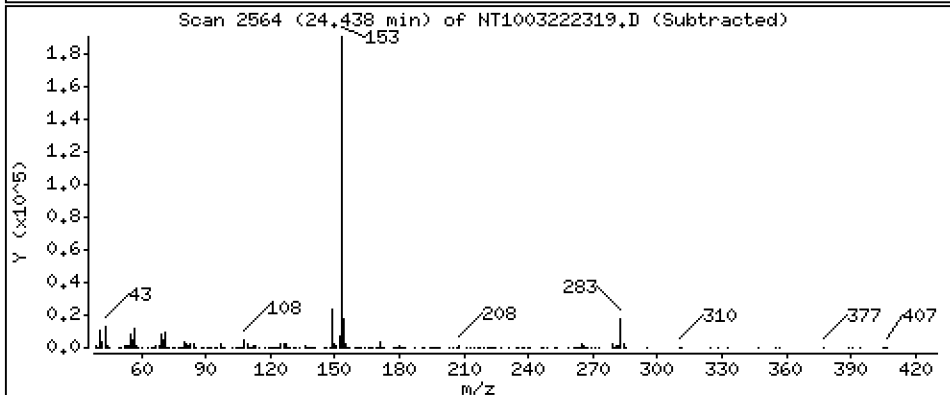
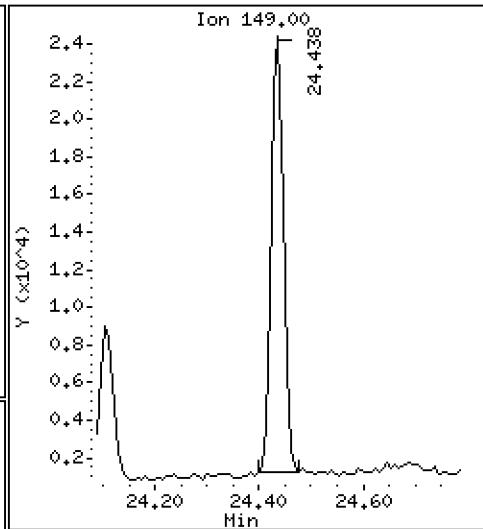
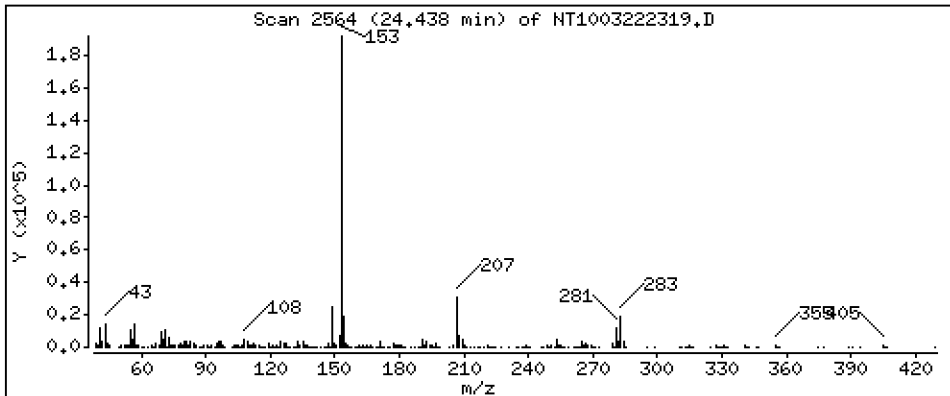
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 0,2019 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

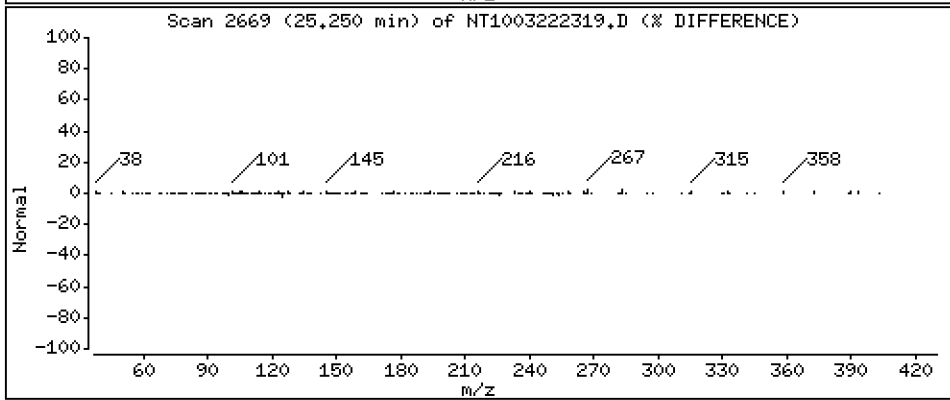
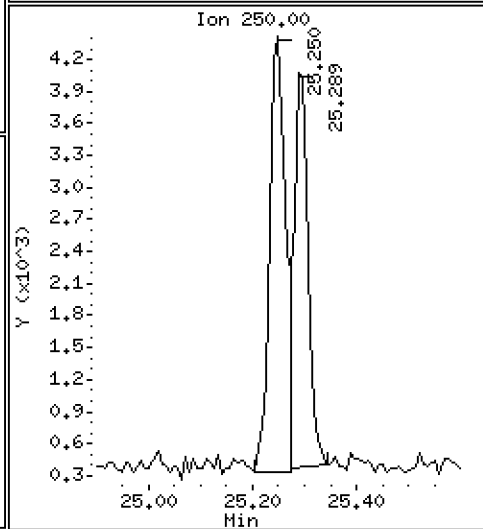
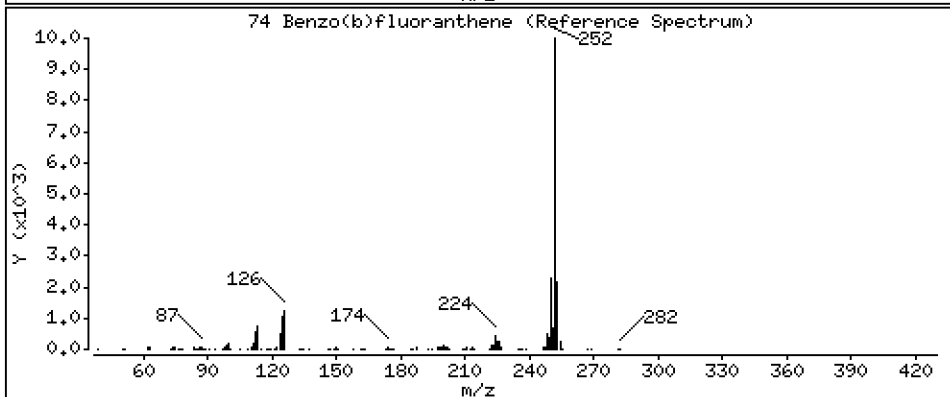
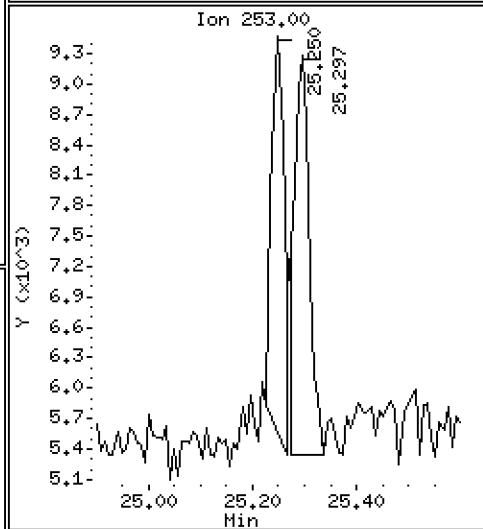
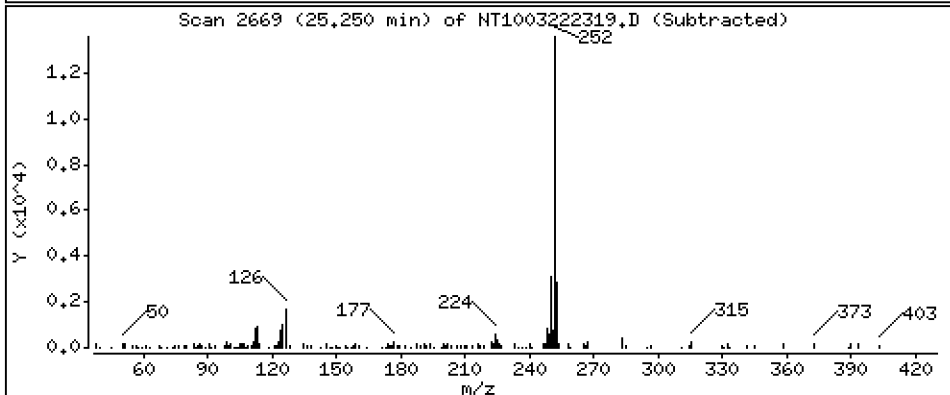
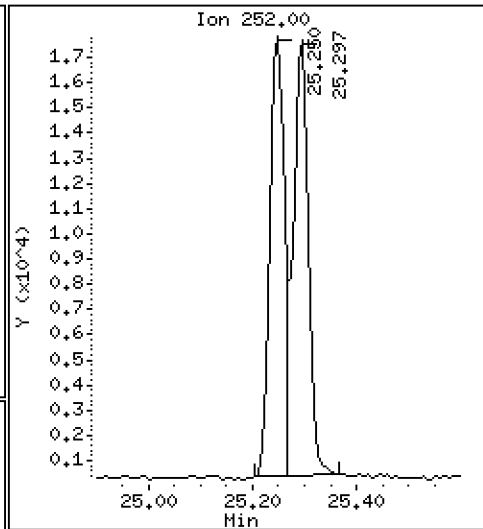
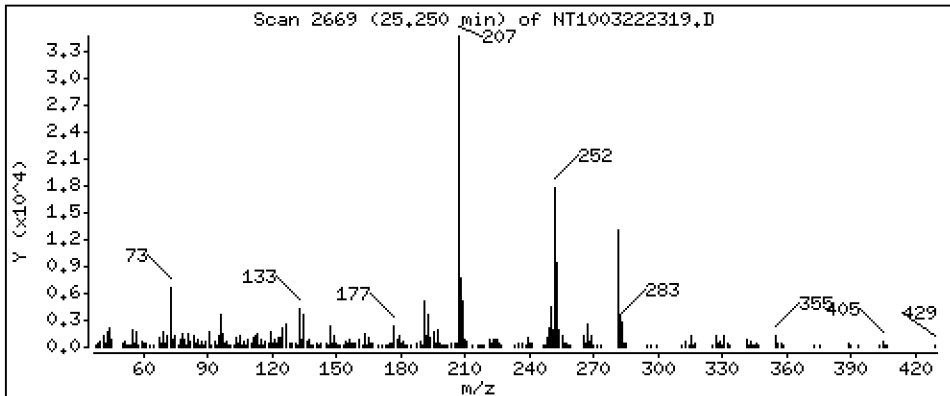
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 0,1942 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

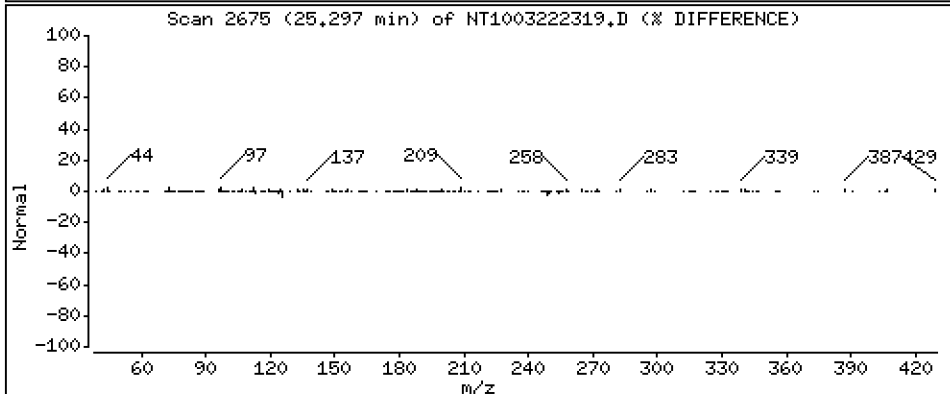
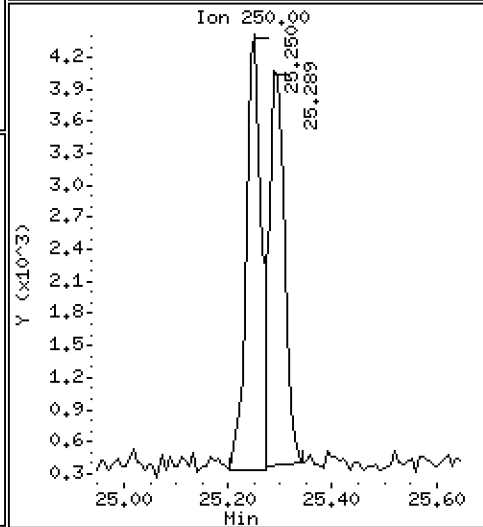
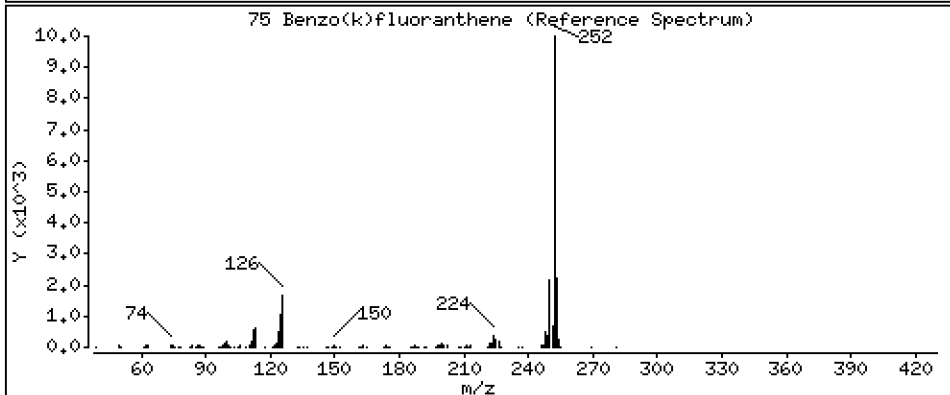
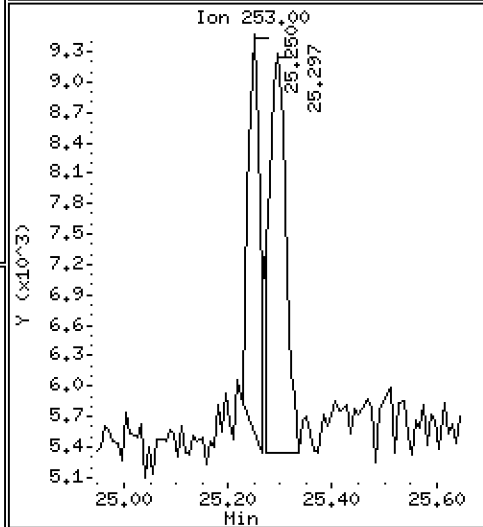
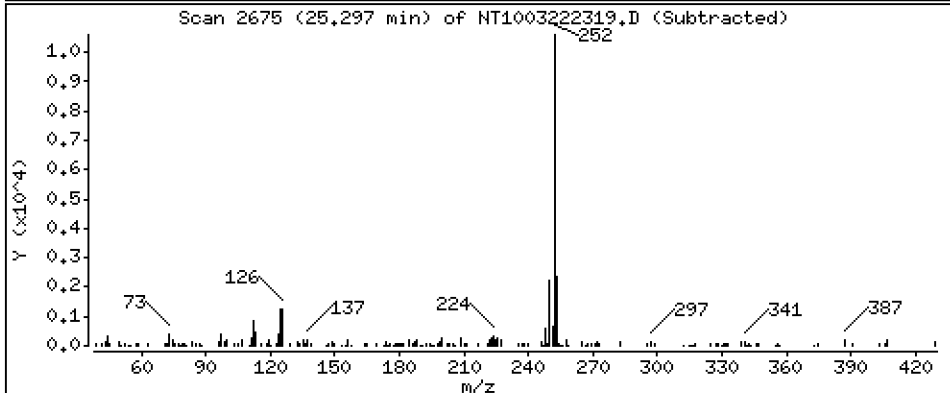
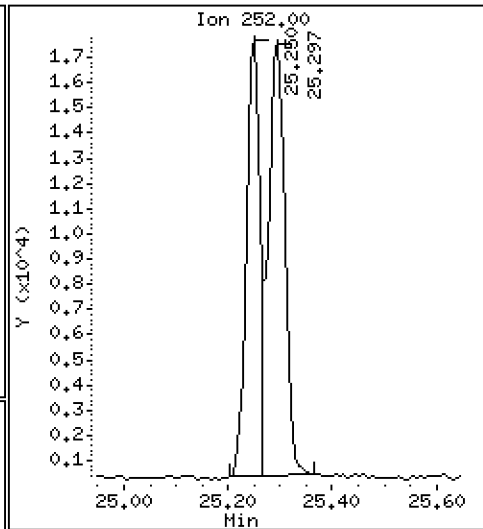
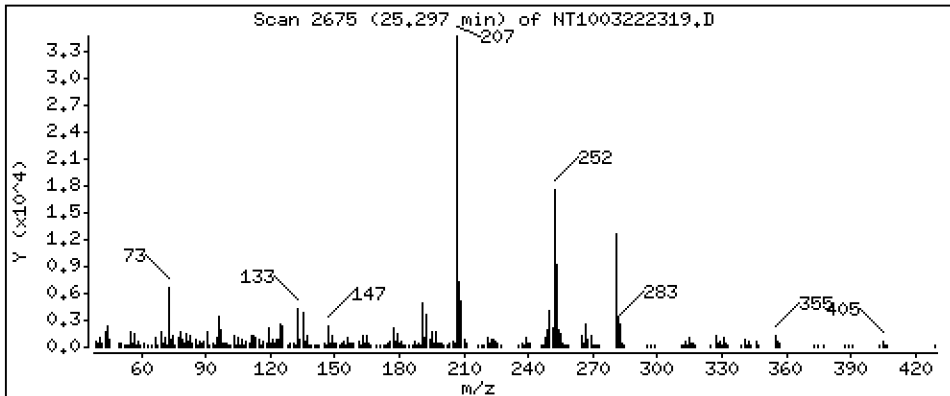
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 0,2290 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

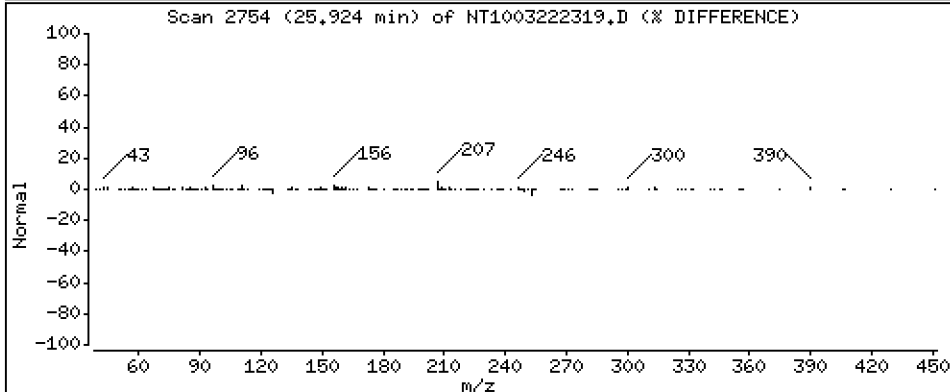
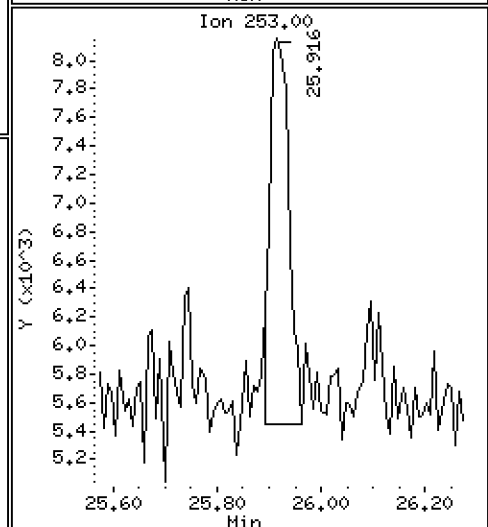
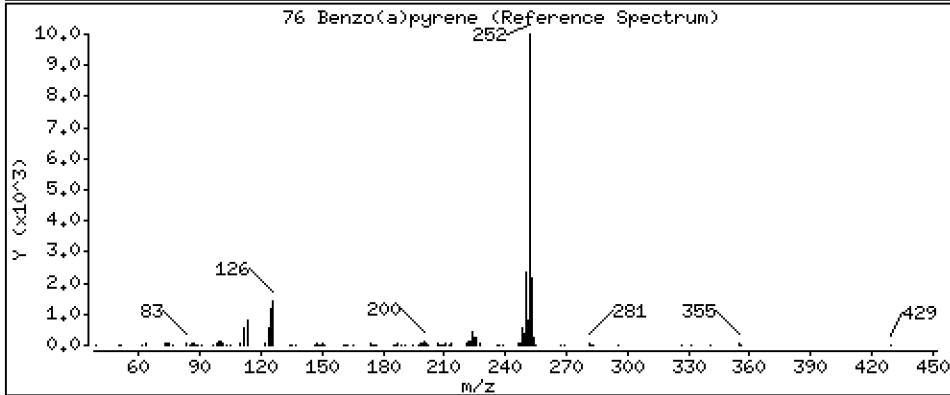
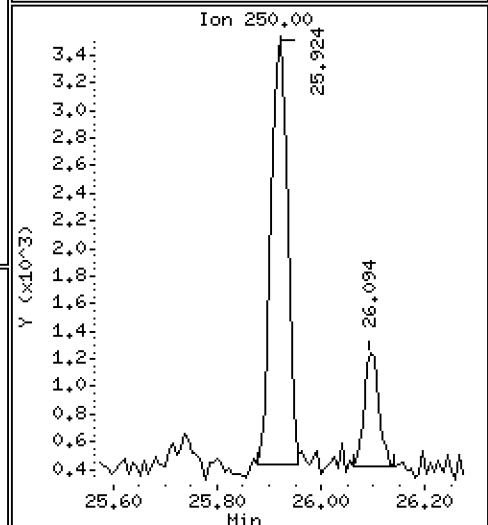
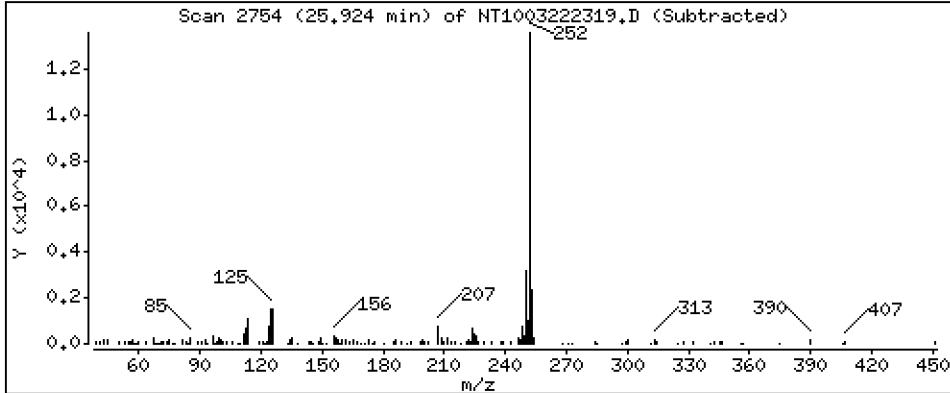
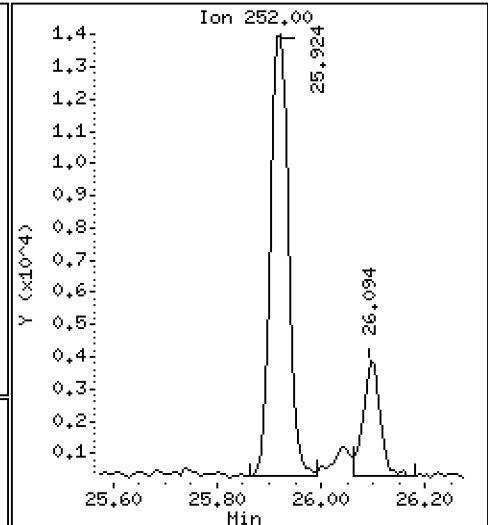
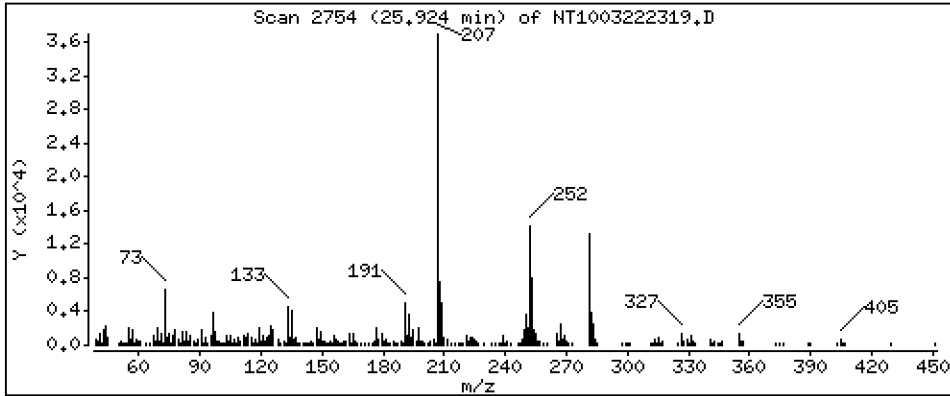
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 0,2157 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

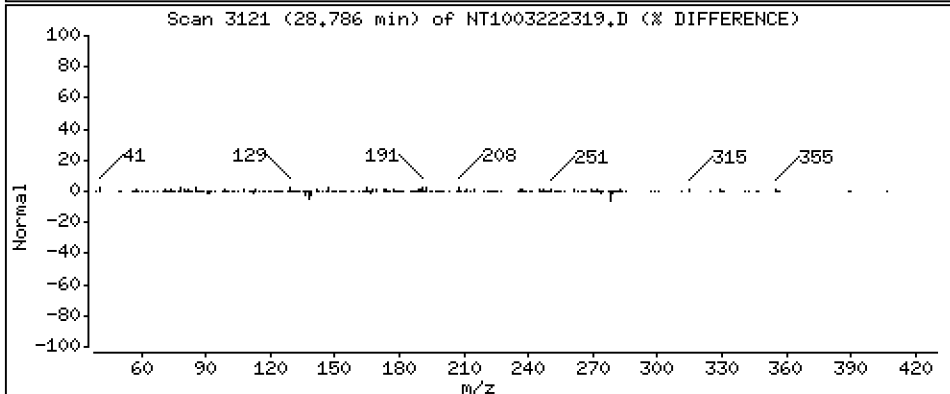
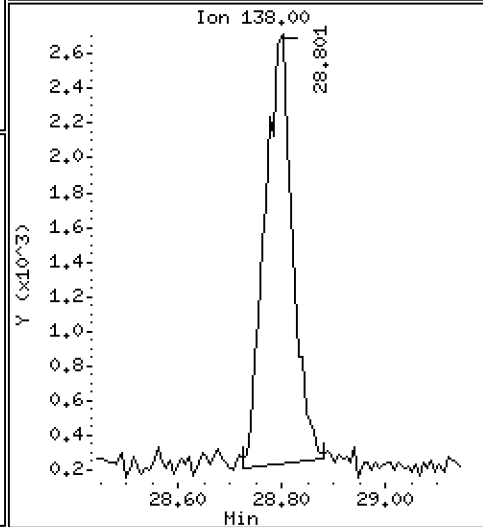
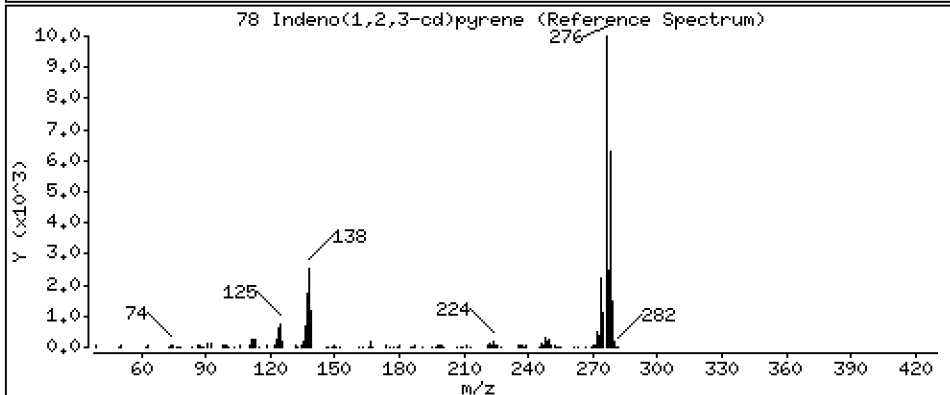
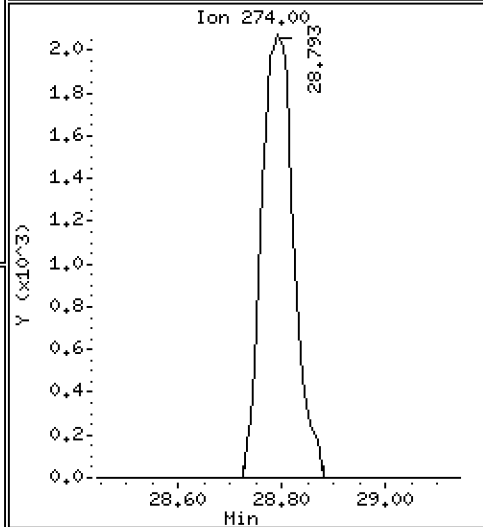
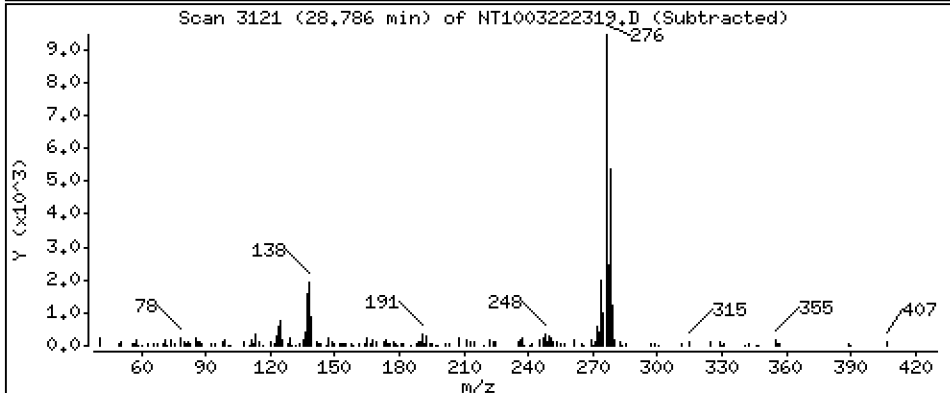
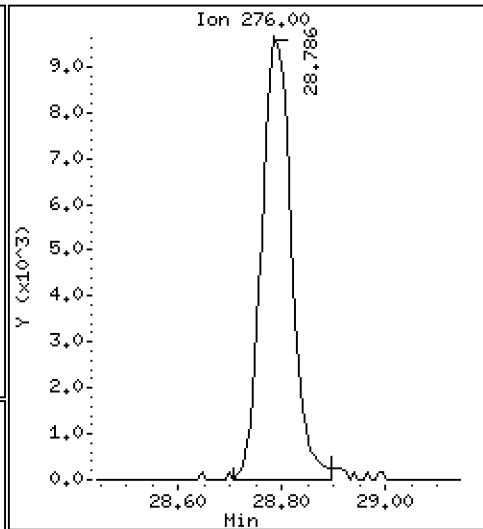
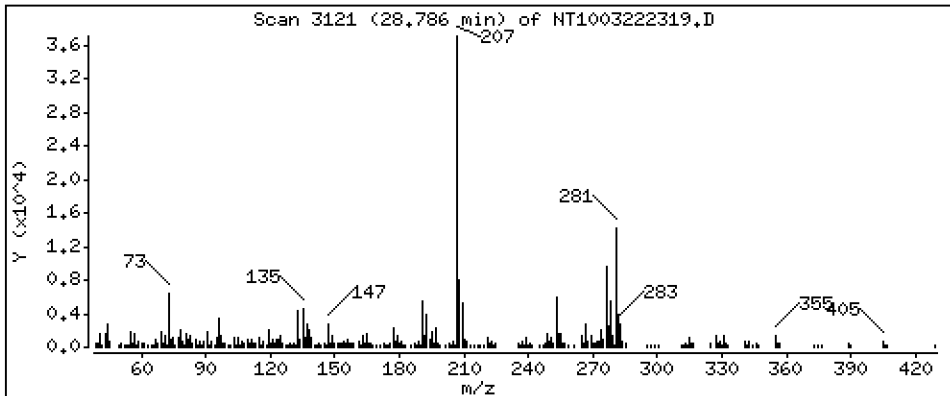
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 0,2021 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

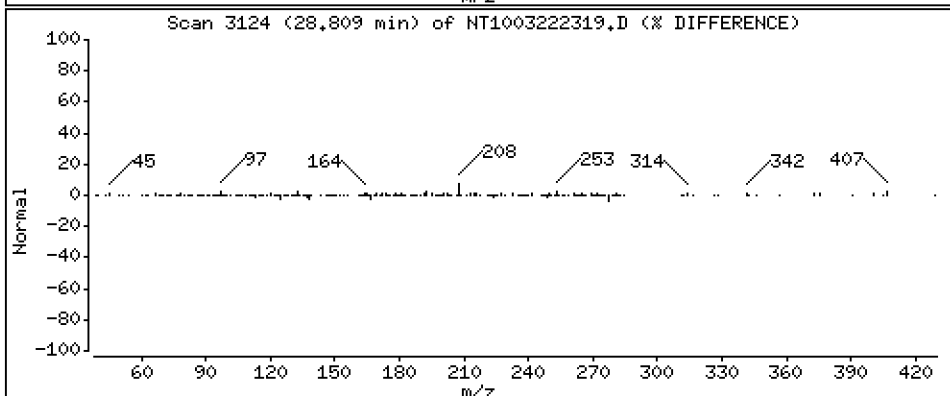
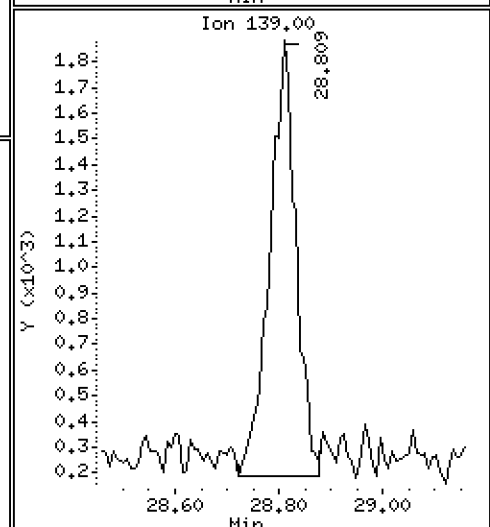
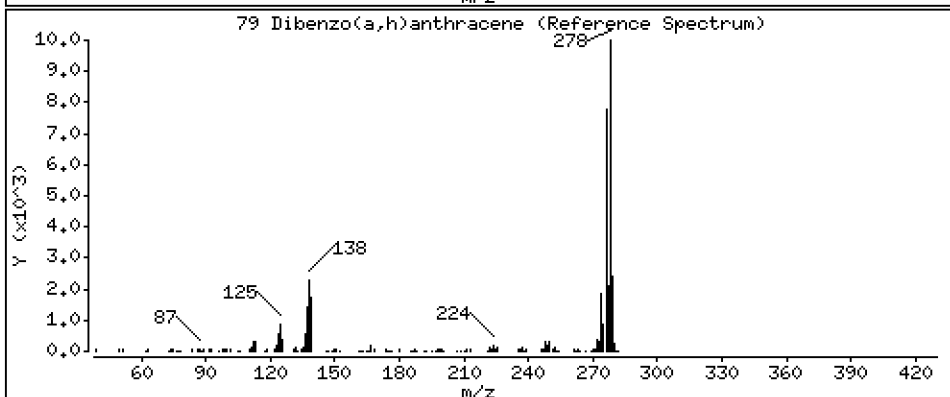
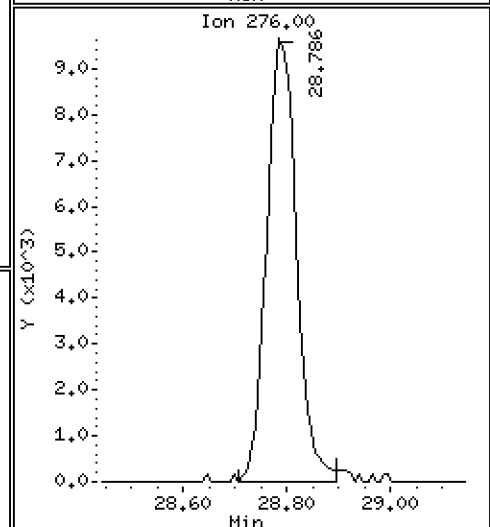
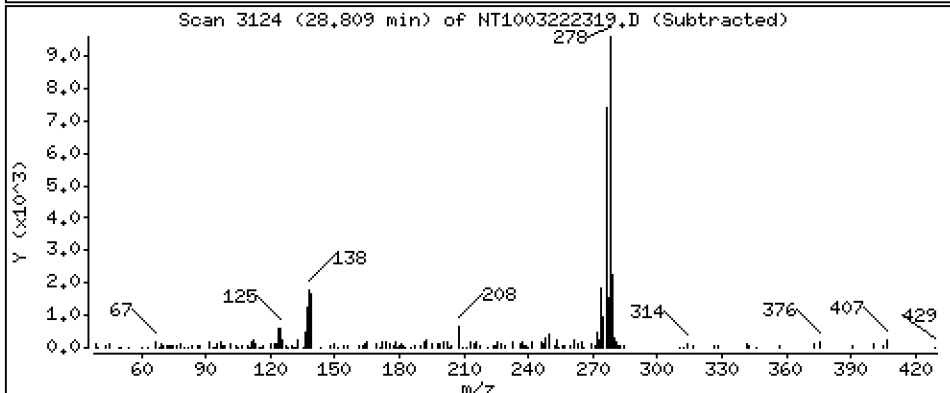
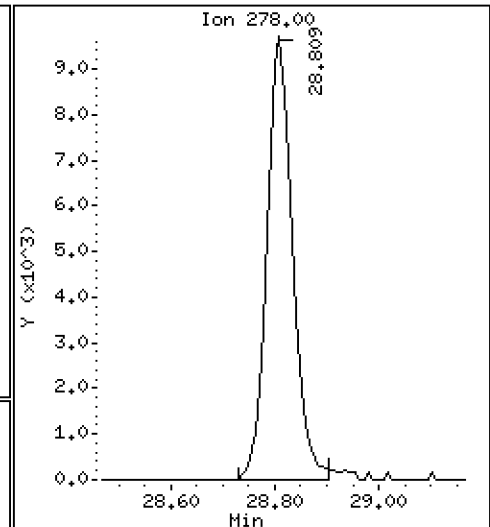
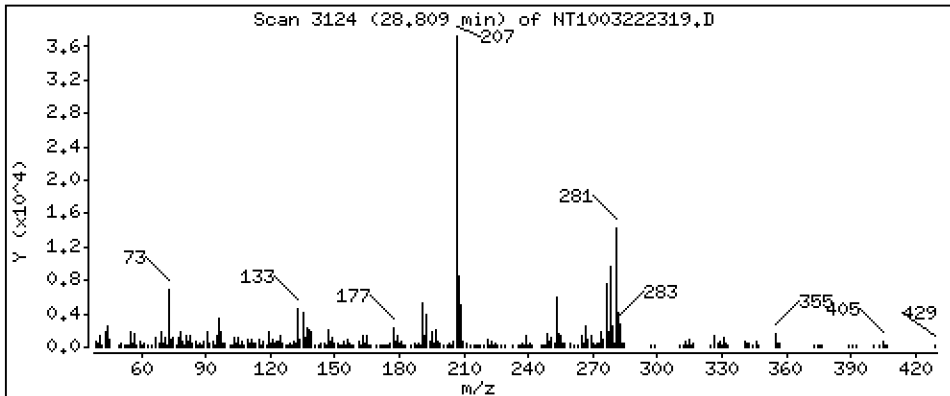
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 0,2076 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

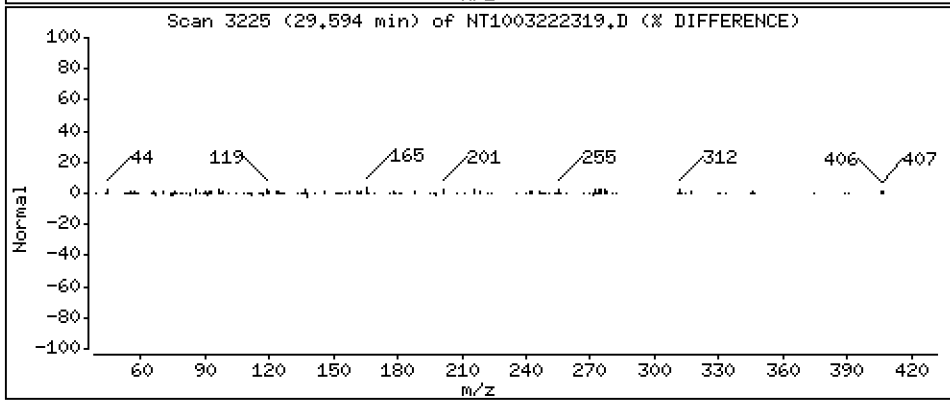
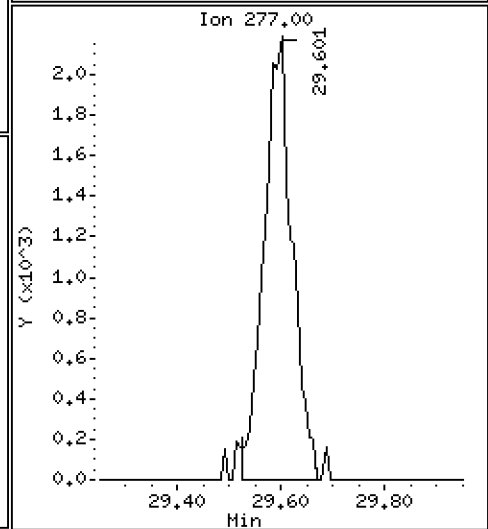
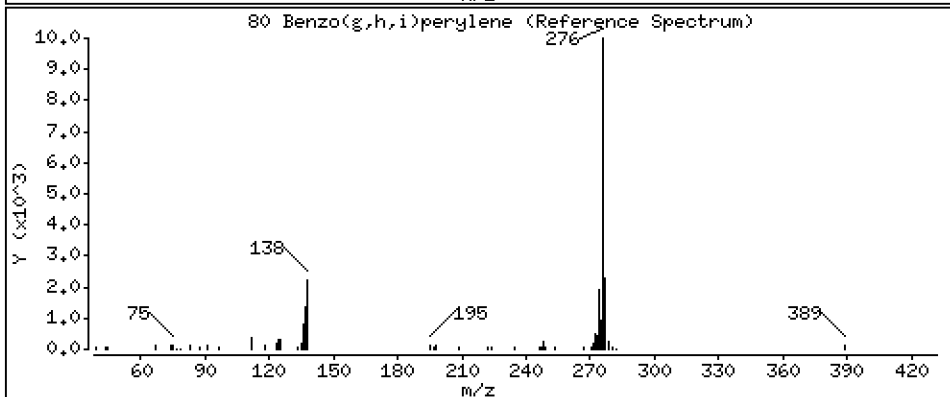
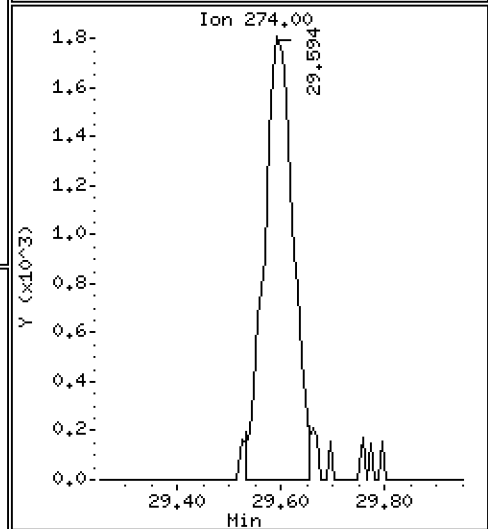
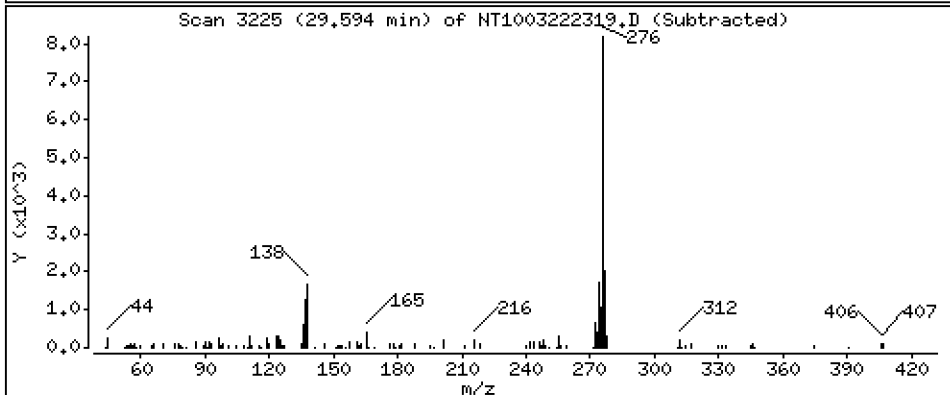
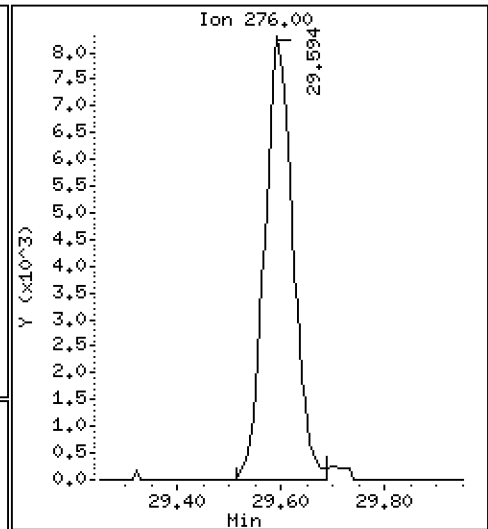
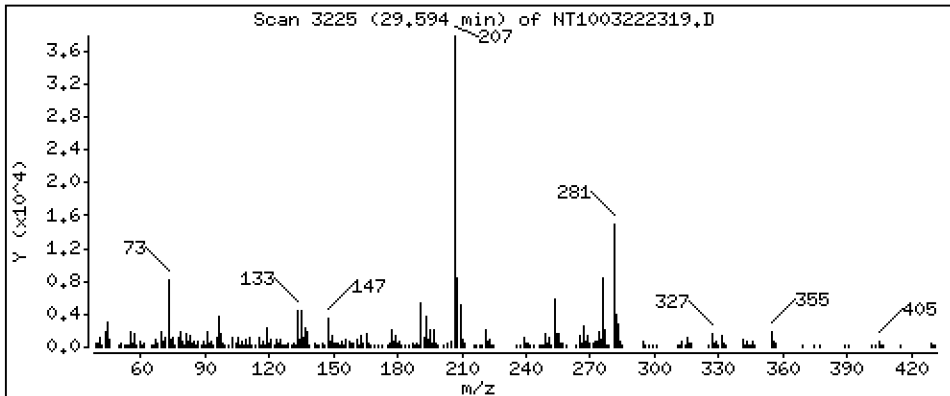
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 0,1897 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

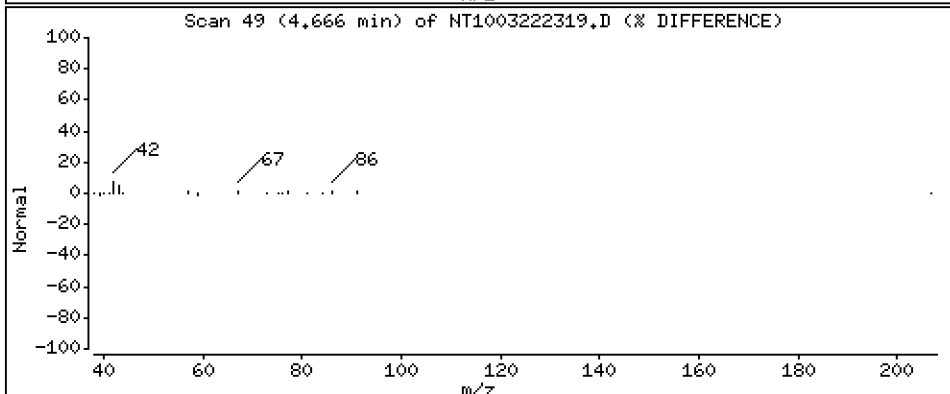
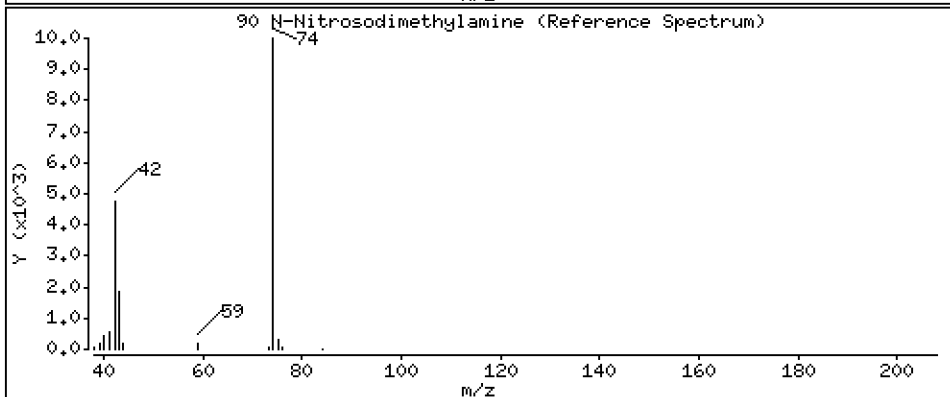
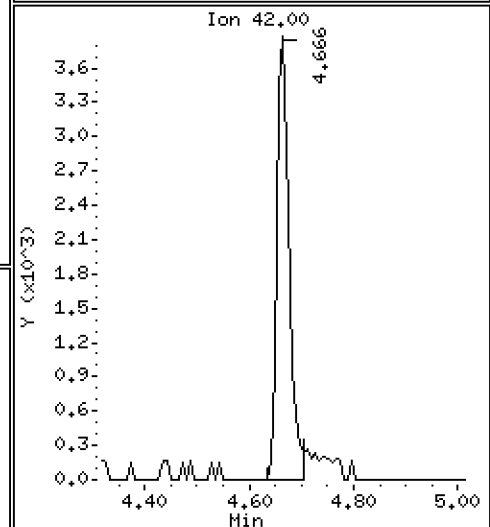
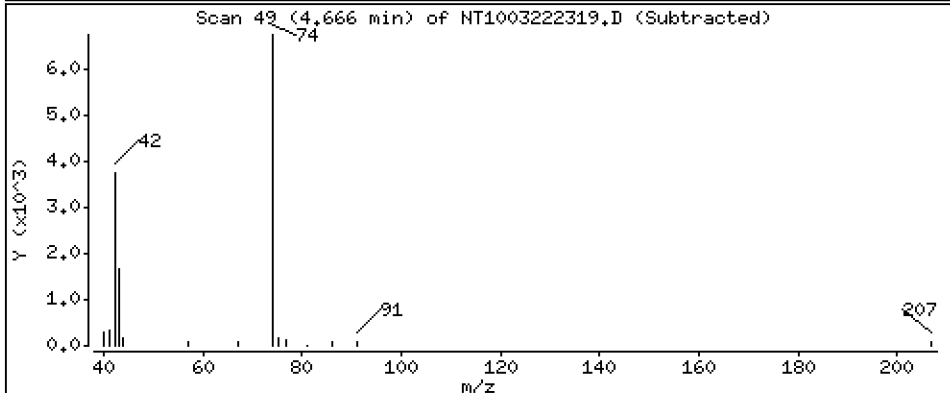
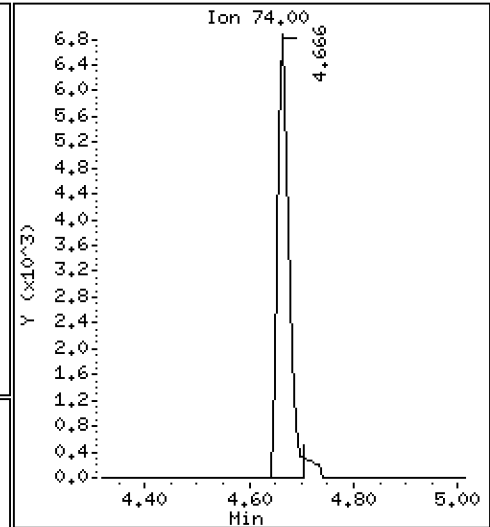
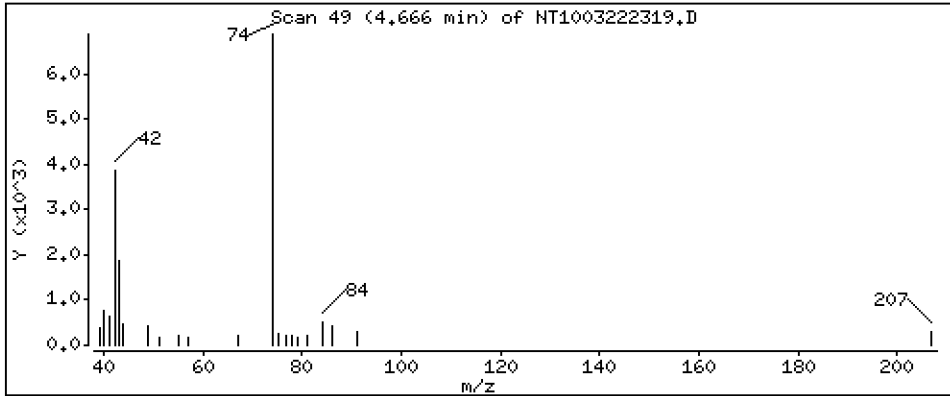
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

90 N-Nitrosodimethylamine

Concentration: 0.3705 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

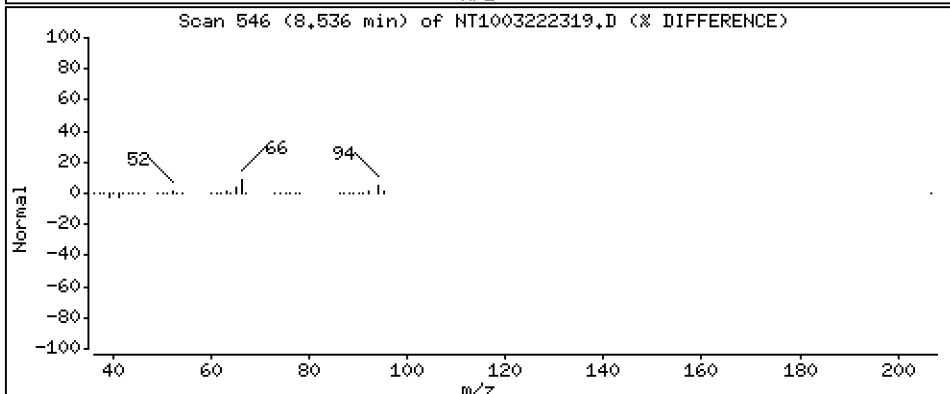
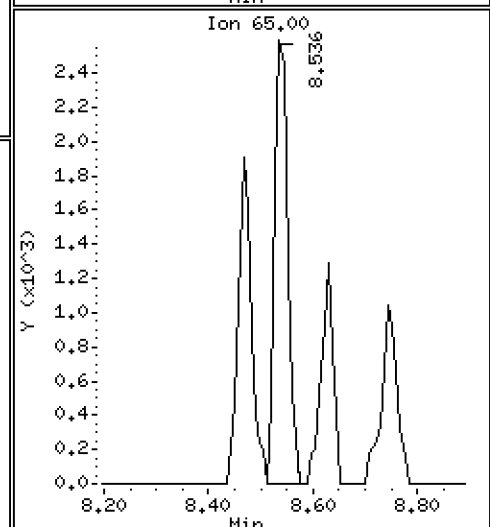
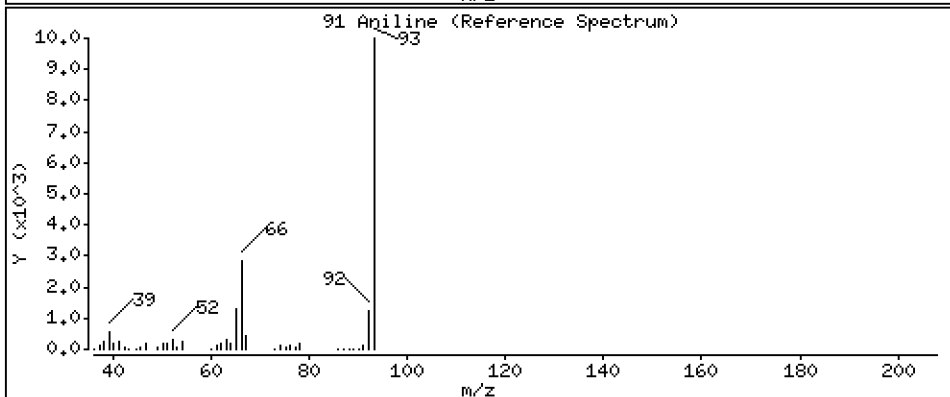
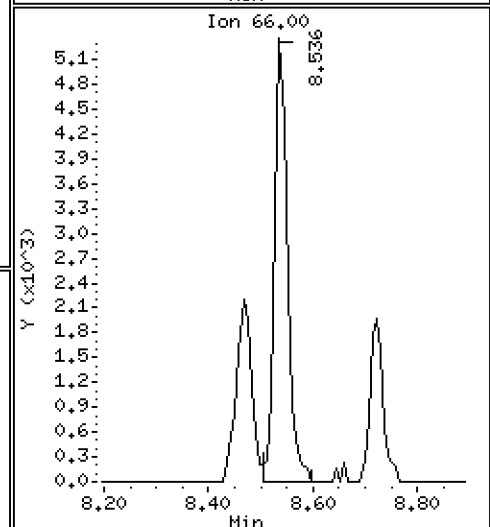
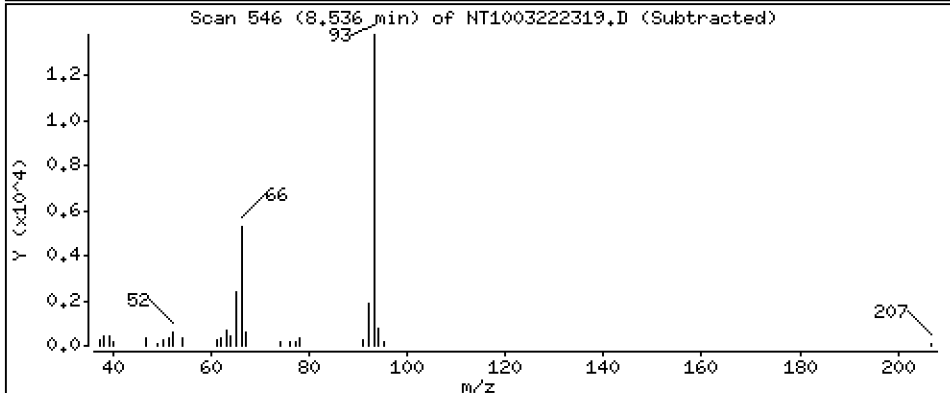
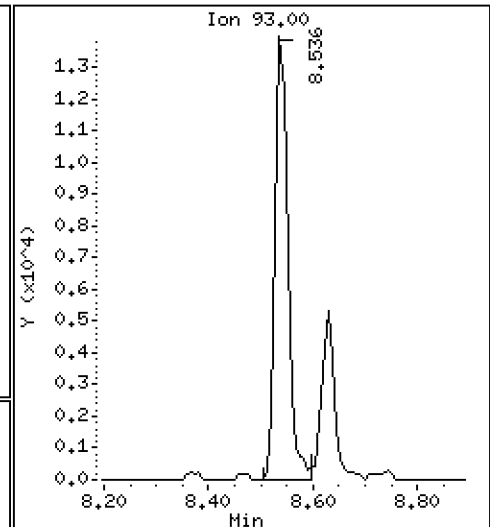
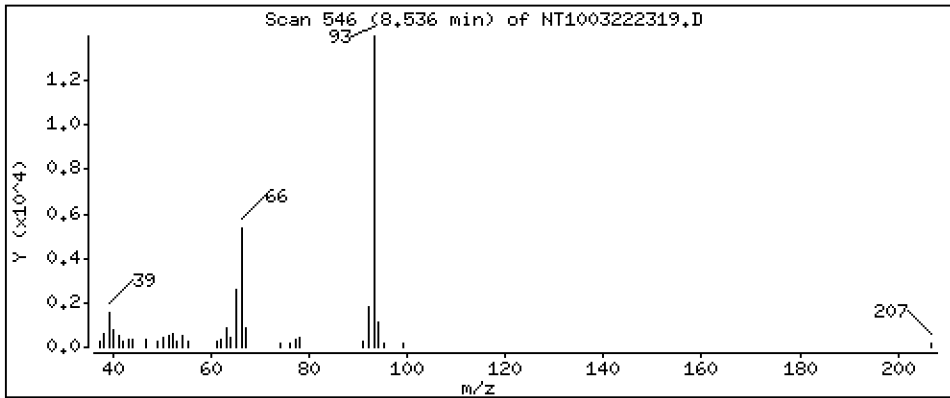
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

91 Aniline

Concentration: 0.3971 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

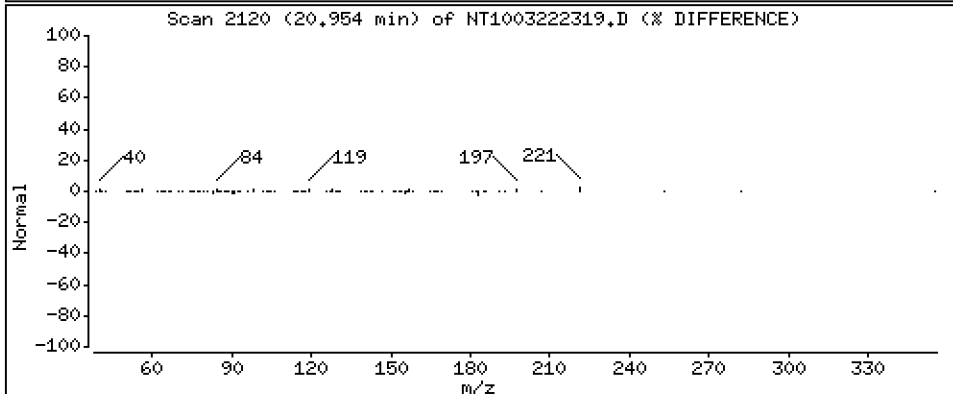
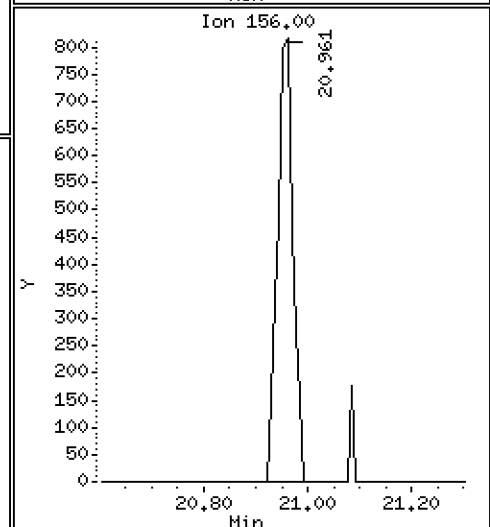
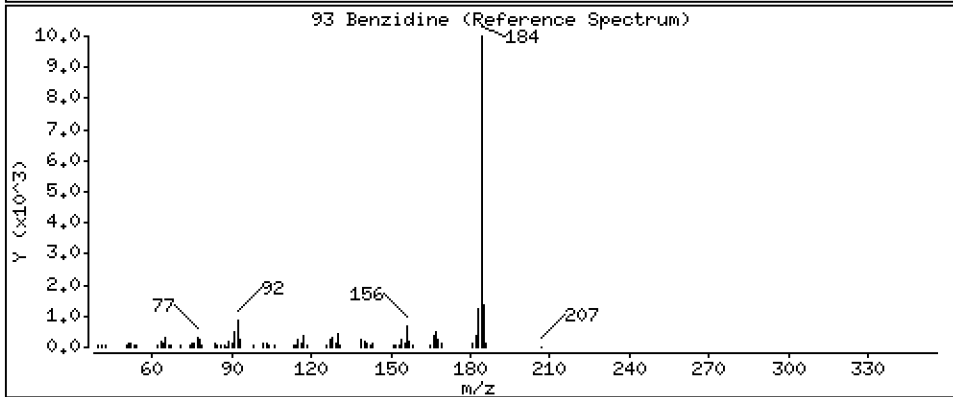
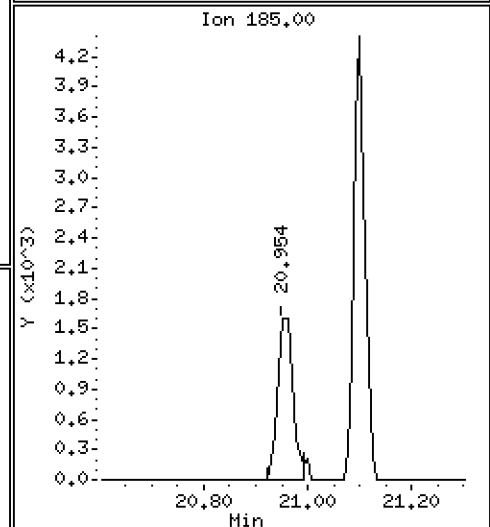
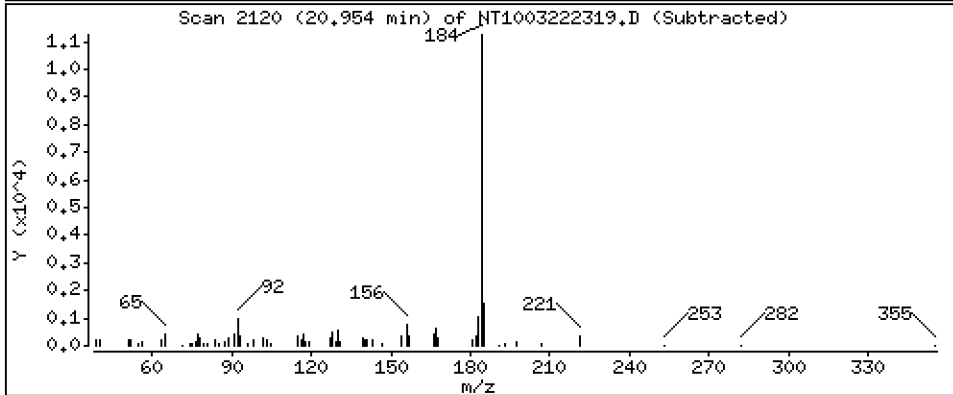
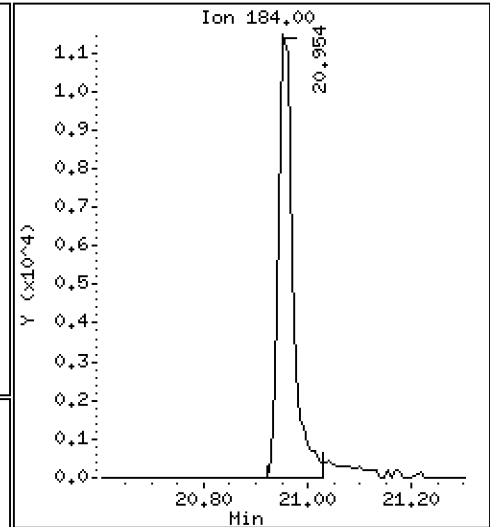
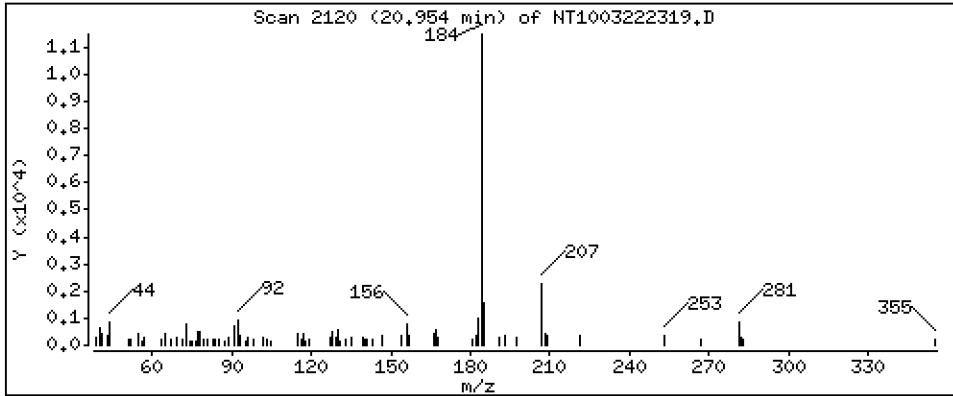
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

Concentration: 0,2928 ug/mL

93 Benzidine



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

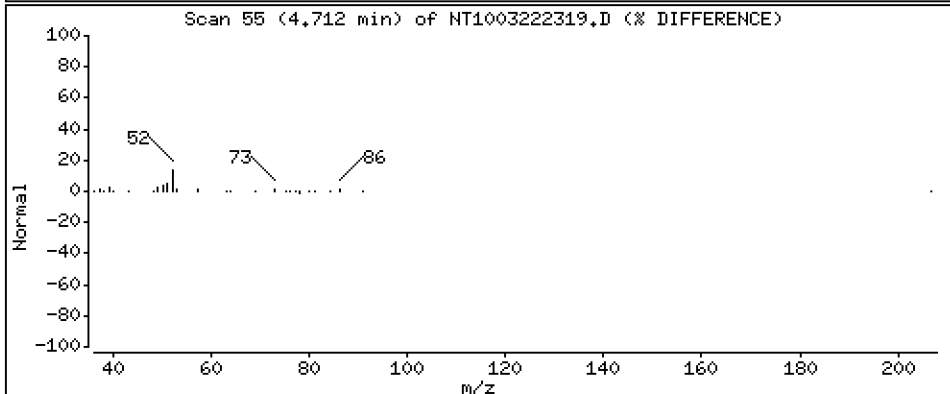
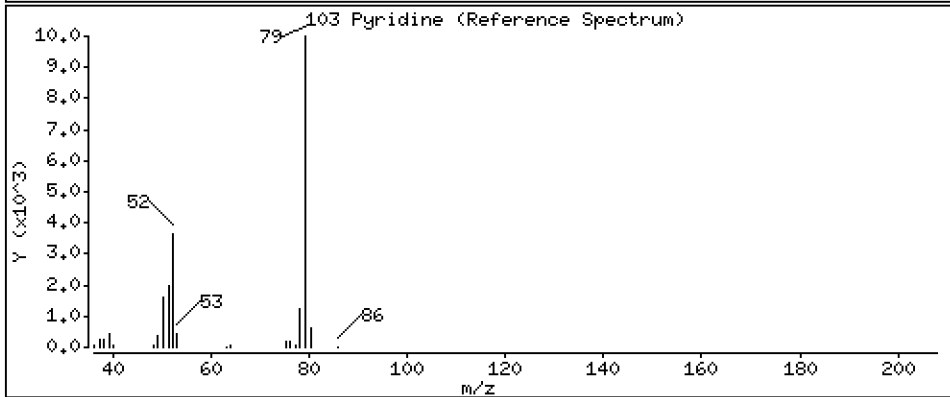
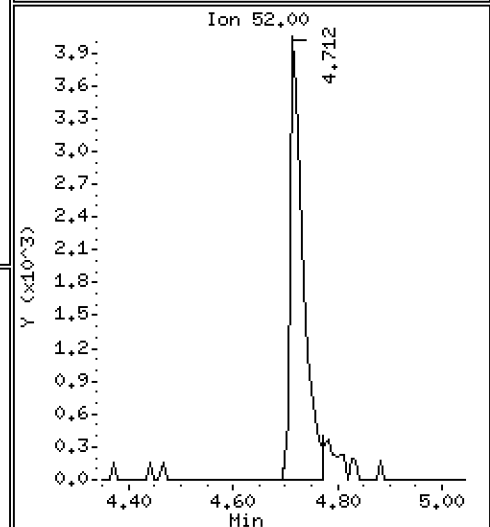
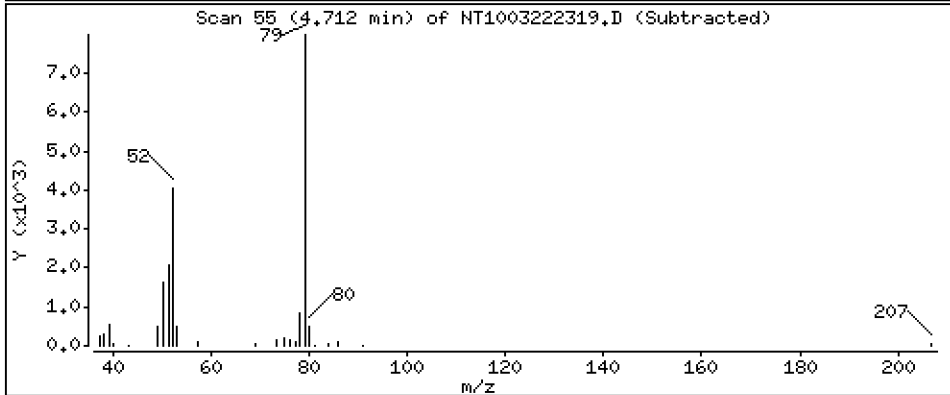
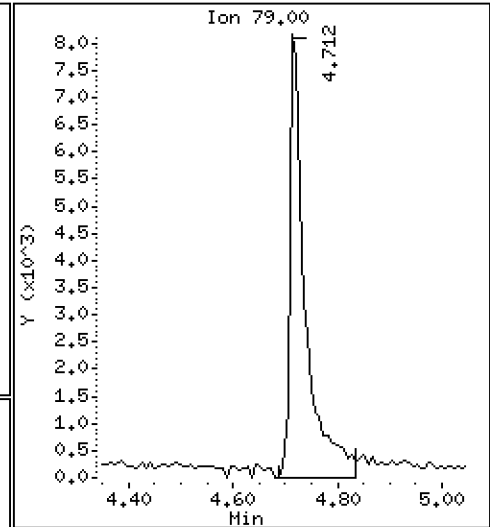
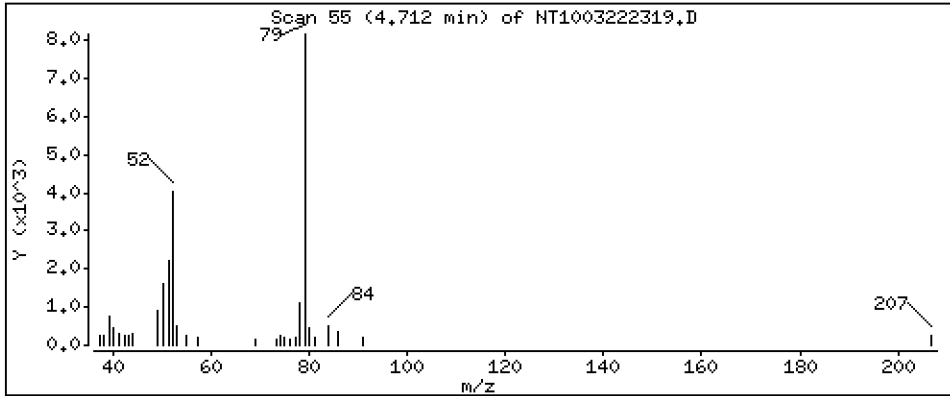
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

103 Pyridine

Concentration: 0,4289 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

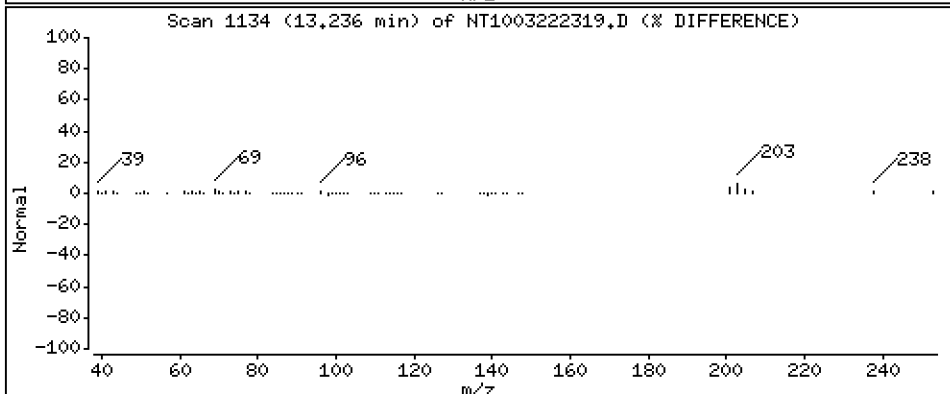
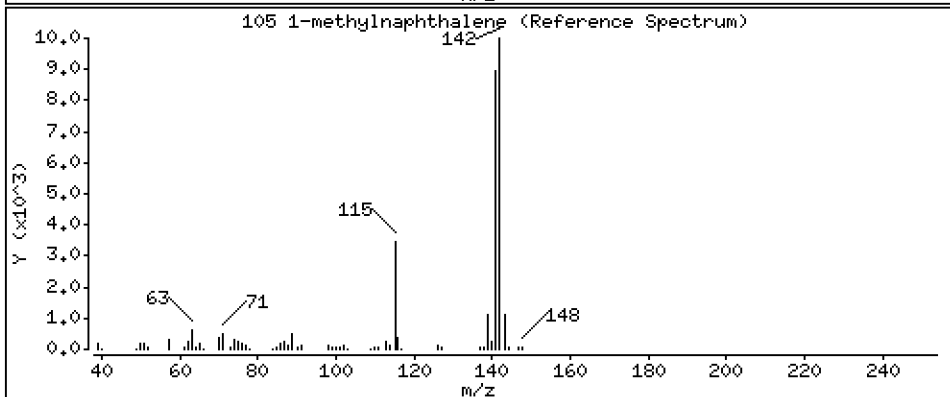
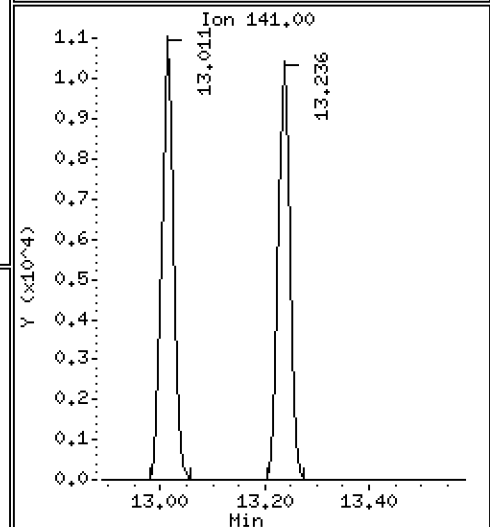
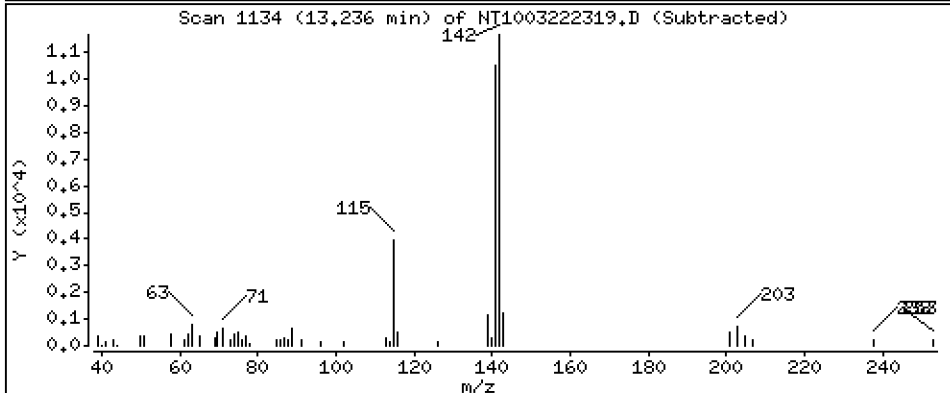
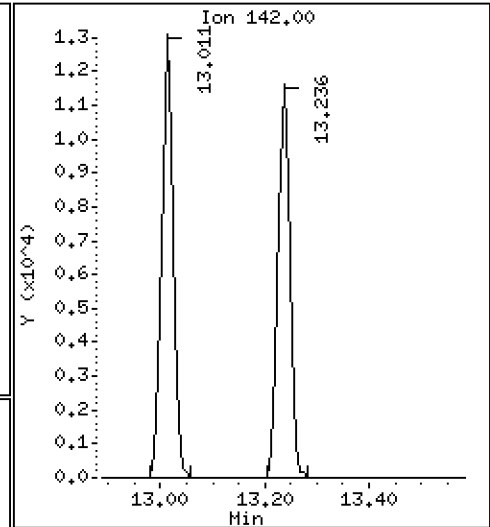
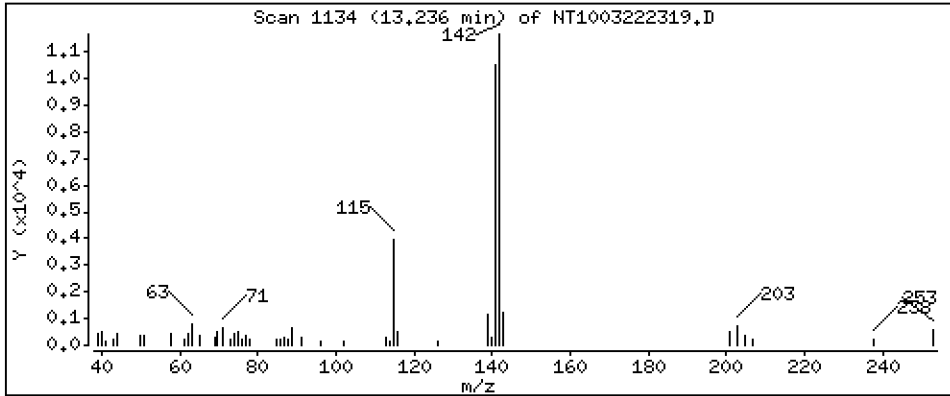
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 0,2075 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

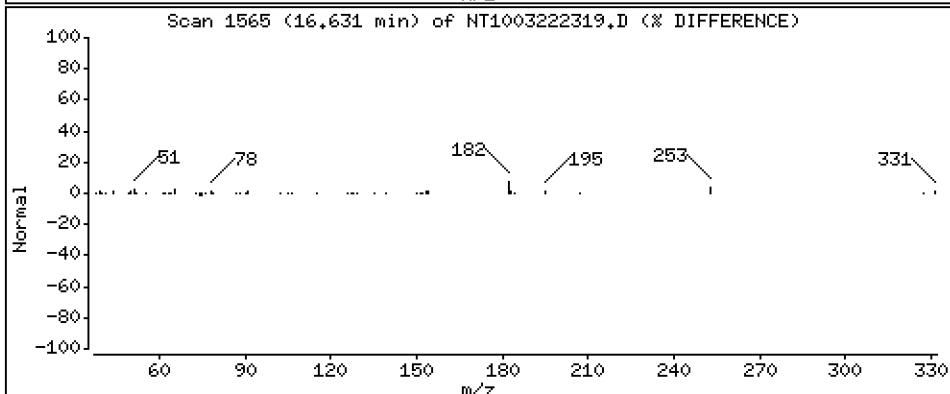
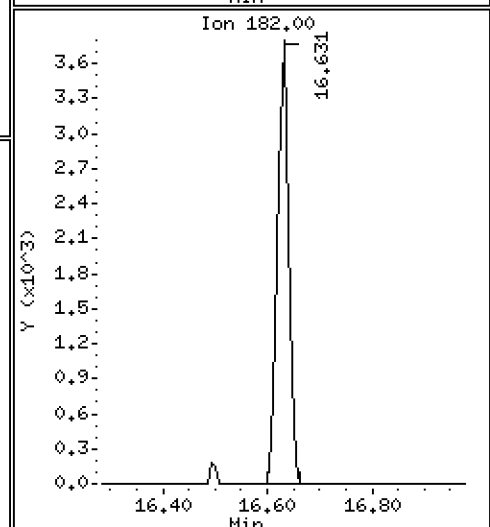
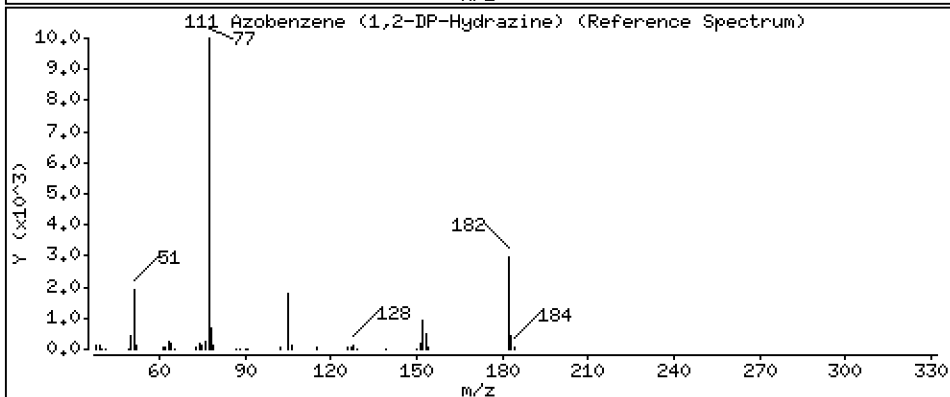
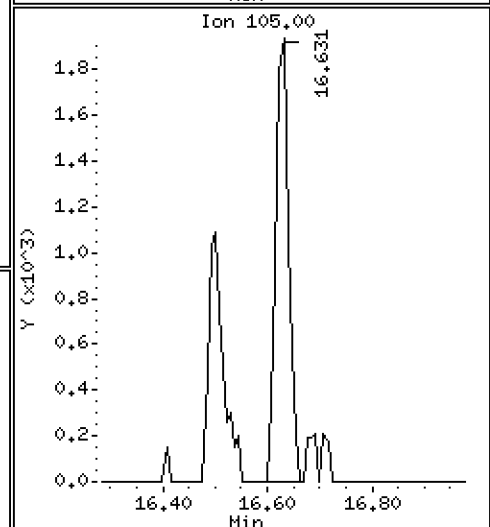
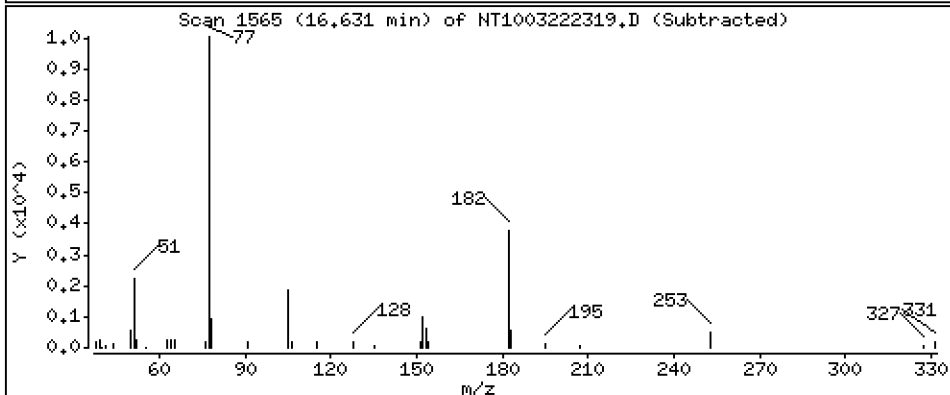
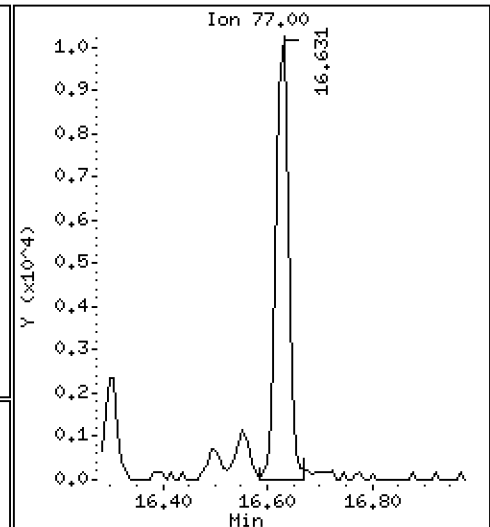
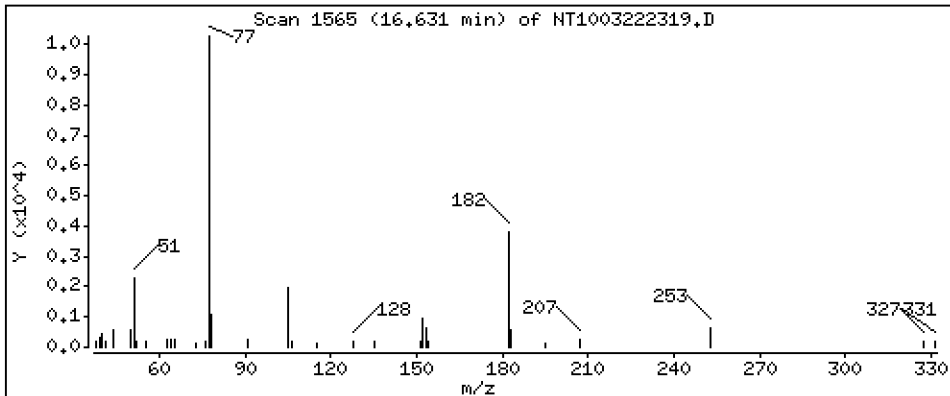
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 0,1755 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

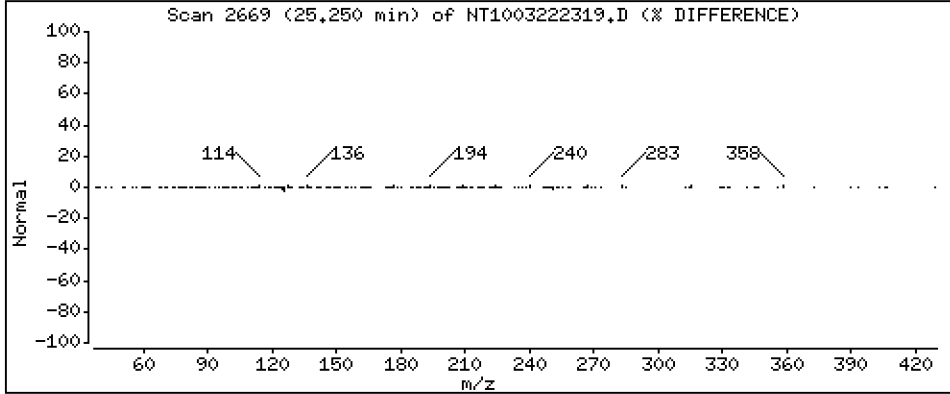
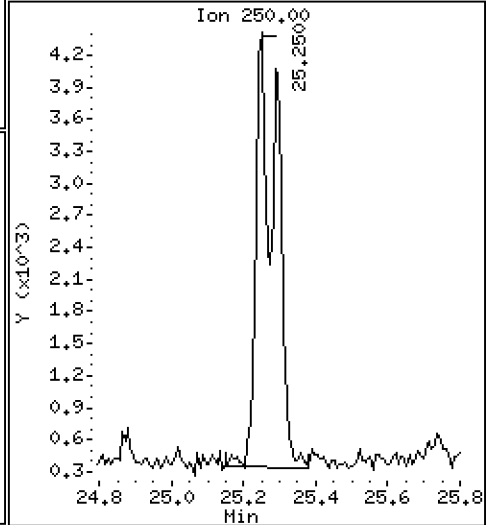
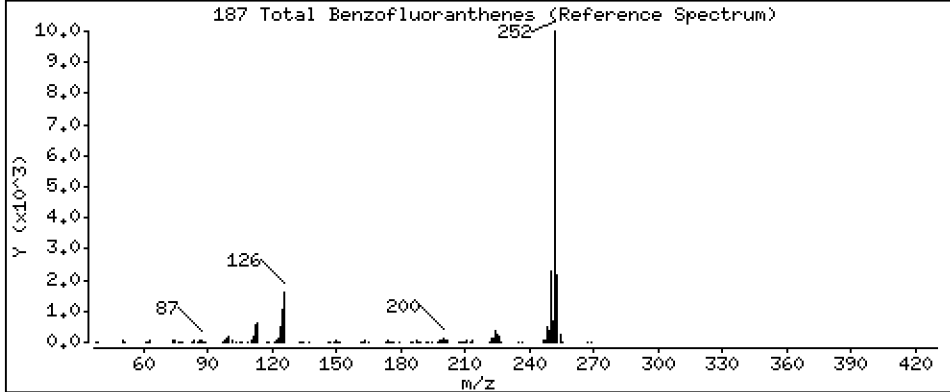
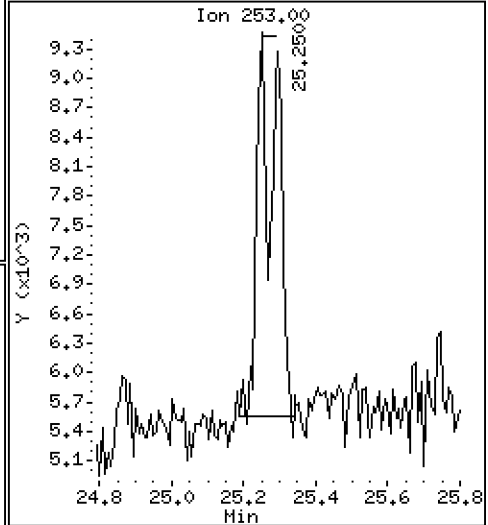
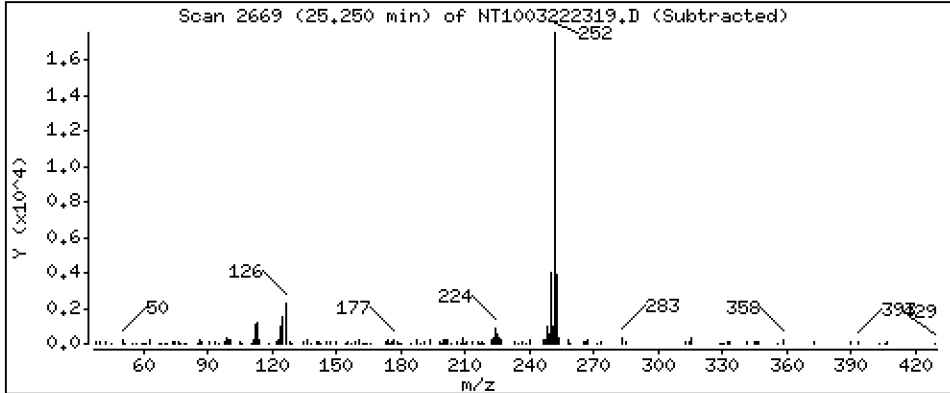
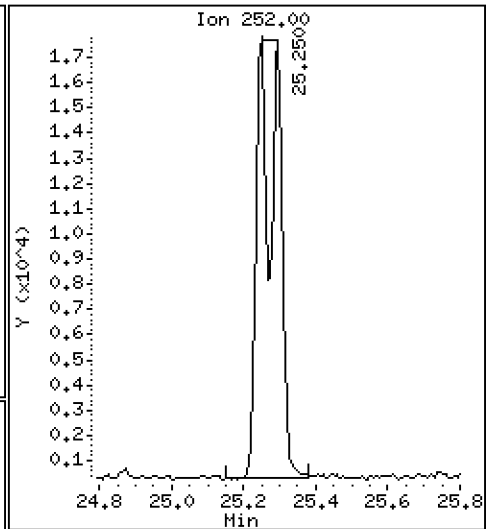
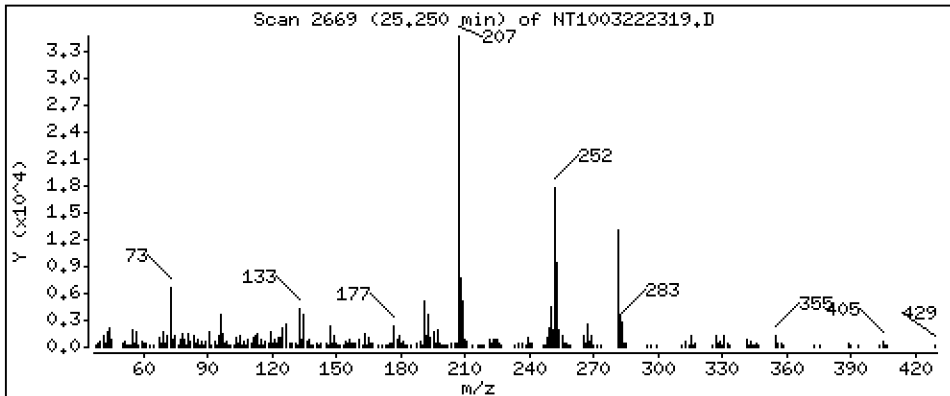
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 0,4281 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

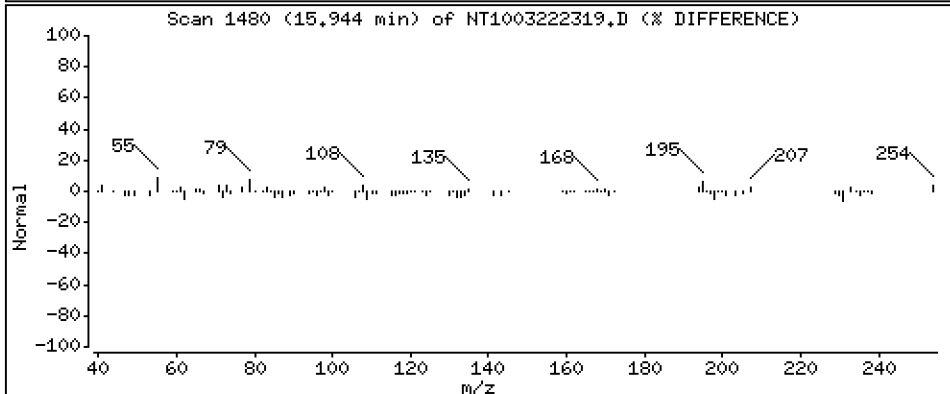
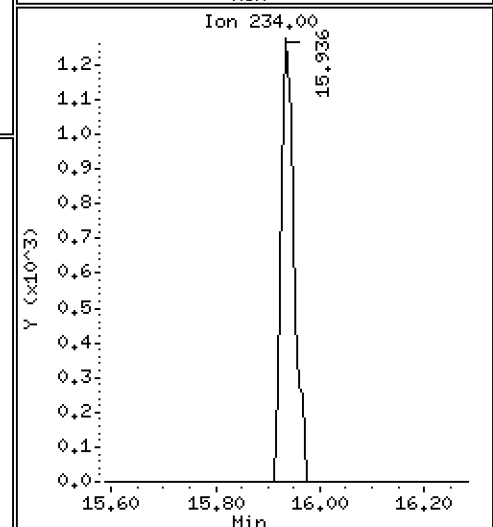
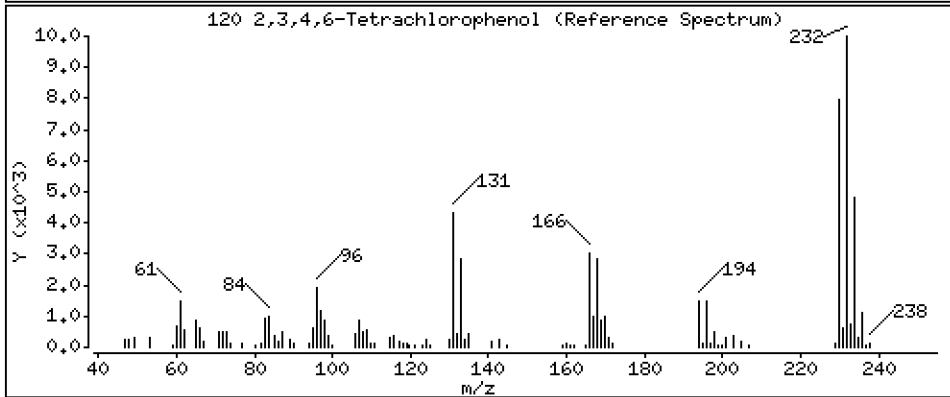
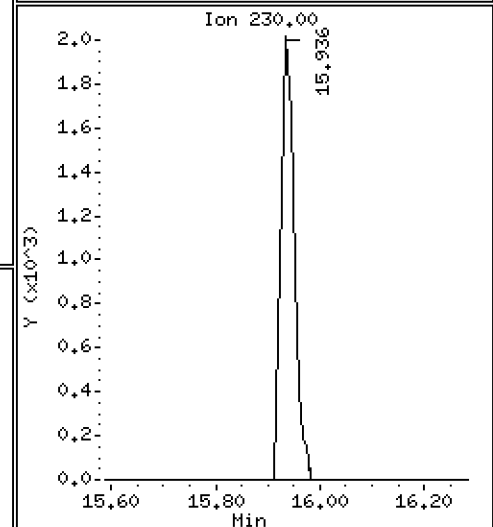
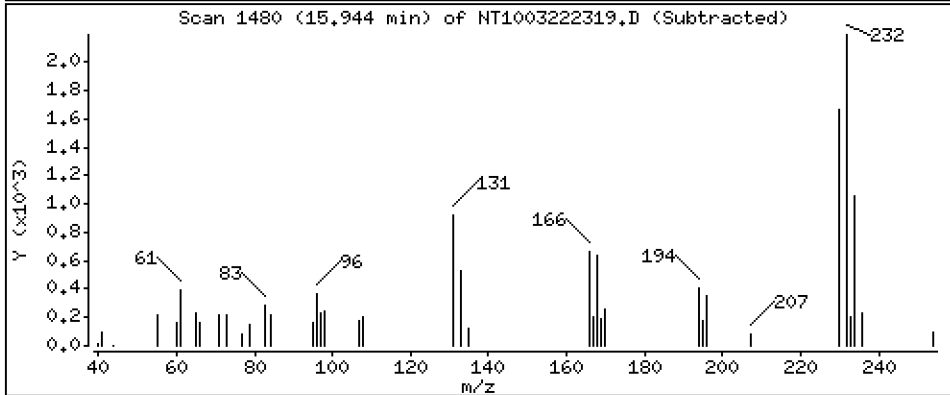
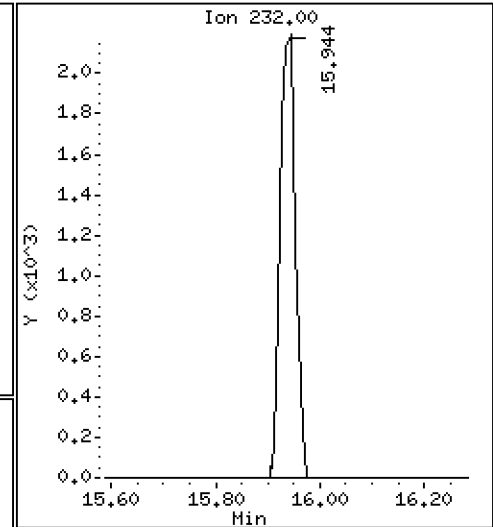
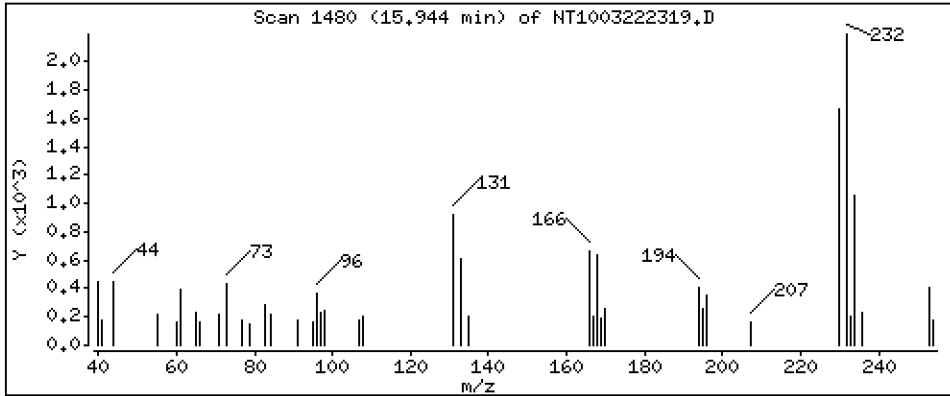
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

120 2,3,4,6-Tetrachlorophenol

Concentration: 0,1606 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230322.b\NT1003222319.D
 Lab Smp Id: SLC0397-LCV2
 Inj Date : 23-MAR-2023 04:30
 Operator : VTS
 Smp Info : SLC0397-LCV2
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt10.i\20230322.b\ABN.m
 Meth Date : 25-Mar-2023 10:11 van
 Cal Date : 16-MAR-2023 00:22
 Als bottle: 4
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: VANS-201906

Inst ID: nt10.i

Quant Type: ISTD
 Cal File: NT10031508.D

Compound Sublist: ICAL.sub

| Compounds | QUANT | SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|---------------------------------|-------|-----|--------|--------|---------|----------|----------------|--------------|
| | | | | | | | ON-COLUMN | FINAL |
| | MASS | | | | | | (ug/mL) | (ug/mL) |
| \$ 1 2-Fluorophenol | 112 | | 6.851 | 6.851 | (0.754) | 12449 | 0.30214 | 0.3021 |
| \$ 2 Phenol-d5 | 99 | | 8.443 | 8.450 | (0.929) | 15617 | 0.28893 | 0.2889 |
| 3 Phenol | 94 | | 8.466 | 8.474 | (0.932) | 10766 | 0.19167 | 0.1917 |
| \$ 5 2-Chlorophenol-d4 | 132 | | 8.721 | 8.721 | (0.960) | 13942 | 0.30206 | 0.3021 |
| 4 Bis(2-Chloroethyl)ether | 93 | | 8.628 | 8.628 | (0.950) | 9035 | 0.21688 | 0.2169 |
| 6 2-Chlorophenol | 128 | | 8.744 | 8.752 | (0.963) | 9283 | 0.19311 | 0.1931 |
| 7 1,3-Dichlorobenzene | 146 | | 9.015 | 9.022 | (0.992) | 10592 | 0.20841 | 0.2084 |
| * 8 1,4-Dichlorobenzene-d4 | 152 | | 9.085 | 9.085 | (1.000) | 136247 | 4.00000 | |
| 9 1,4-Dichlorobenzene | 146 | | 9.116 | 9.116 | (1.003) | 9814 | 0.19990 | 0.1999 |
| \$ 10 1,2-Dichlorobenzene-d4 | 152 | | 9.442 | 9.441 | (1.039) | 6870 | 0.20726 | 0.2073 |
| 12 1,2-Dichlorobenzene | 146 | | 9.465 | 9.473 | (1.042) | 10082 | 0.20866 | 0.2087 |
| 11 Benzyl alcohol | 108 | | 9.356 | 9.356 | (1.030) | 5087 | 0.19295 | 0.1930 |
| 14 2,2'-oxybis(1-Chloropropane) | 121 | | 9.659 | 9.659 | (1.063) | 2840 | 0.20015 | 0.2002 (M) |
| 13 2-Methylphenol | 108 | | 9.589 | 9.589 | (1.056) | 7722 | 0.18859 | 0.1886 |
| 17 Hexachloroethane | 117 | | 10.063 | 10.063 | (1.108) | 2697 | 0.13389 | 0.1339 |
| 16 N-Nitroso-di-n-propylamine | 70 | | 9.915 | 9.915 | (1.091) | 5914 | 0.18292 | 0.1829 |
| 15 4-Methylphenol | 108 | | 9.861 | 9.861 | (1.085) | 8096 | 0.18766 | 0.1877 |
| \$ 18 Nitrobenzene-d5 | 82 | | 10.179 | 10.179 | (0.880) | 9421 | 0.19414 | 0.1941 |
| 19 Nitrobenzene | 77 | | 10.218 | 10.218 | (0.883) | 8578 | 0.18013 | 0.1801 |
| 20 Isophorone | 82 | | 10.668 | 10.668 | (0.922) | 10843 | 0.17798 | 0.1780 |
| 21 2-Nitrophenol | 139 | | 10.850 | 10.850 | (0.938) | 5229 | 0.22580 | 0.2258 |
| 22 2,4-Dimethylphenol | 107 | | 10.901 | 10.901 | (0.942) | 16905 | 0.38648 | 0.3865 |
| 23 Bis(2-Chloroethoxy)methane | 93 | | 11.096 | 11.096 | (0.959) | 8502 | 0.20893 | 0.2089 |
| 24 Benzoic acid | 105 | | 11.003 | 11.105 | (0.951) | 10120 | 0.41639 | 0.4164 |
| 25 2,4-Dichlorophenol | 162 | | 11.308 | 11.308 | (0.977) | 14071 | 0.40199 | 0.4020 |
| 26 1,2,4-Trichlorobenzene | 180 | | 11.487 | 11.487 | (0.993) | 9371 | 0.22807 | 0.2281 |
| * 27 Naphthalene-d8 | 136 | | 11.572 | 11.572 | (1.000) | 480759 | 4.00000 | |
| 28 Naphthalene | 128 | | 11.611 | 11.618 | (1.003) | 26482 | 0.20793 | 0.2079 |
| 29 4-Chloroaniline | 127 | | 11.750 | 11.750 | (1.015) | 18795 | 0.37828 | 0.3783 |
| 30 Hexachlorobutadiene | 225 | | 11.974 | 11.981 | (1.035) | 5282 | 0.21939 | 0.2194 |
| 31 4-Chloro-3-methylphenol | 107 | | 12.717 | 12.717 | (1.099) | 13262 | 0.34999 | 0.3500 |
| 32 2-Methylnaphthalene | 142 | | 13.011 | 13.018 | (1.124) | 19639 | 0.21367 | 0.2137 |
| 33 Hexachlorocyclopentadiene | 237 | | 13.483 | 13.483 | (0.887) | 164 | 0.00676 | 0.006755 (H) |

| Compounds | QUANT SIG | | | | | CONCENTRATIONS | |
|-----------------------------------|-----------|--------|--------|---------|----------|----------------------|------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | ON-COLUMN (ug/mL) | FINAL (ug/mL) |
| 34 2,4,6-Trichlorophenol | 196 | 13.638 | 13.638 | (0.897) | 10131 | 0.39076 | 0.3908 |
| 35 2,4,5-Trichlorophenol | 196 | 13.715 | 13.715 | (0.902) | 10922 | 0.37913 | 0.3791 |
| § 36 2-Fluorobiphenyl | 172 | 13.800 | 13.800 | (0.908) | 22088 | 0.21286 | 0.2129 |
| 37 2-Chloronaphthalene | 162 | 14.009 | 14.009 | (0.922) | 17170 | 0.20436 | 0.2044 |
| 38 2-Nitroaniline | 65 | 14.272 | 14.272 | (0.939) | 7095 | 0.30062 | 0.3006 |
| 39 Dimethylphthalate | 163 | 14.706 | 14.706 | (0.967) | 18091 | 0.21230 | 0.2123 |
| 40 Acenaphthylene | 152 | 14.884 | 14.884 | (0.979) | 27205 | 0.20779 | 0.2078 |
| 41 2,6-Dinitrotoluene | 165 | 14.845 | 14.845 | (0.977) | 7159 | 0.38889 | 0.3889 |
| * 42 Acenaphthene-d10 | 164 | 15.201 | 15.201 | (1.000) | 262317 | 4.00000 | |
| 43 3-Nitroaniline | 138 | 15.132 | 15.131 | (0.995) | 6137 | 0.29536 | 0.2954 |
| 44 Acenaphthene | 153 | 15.263 | 15.263 | (1.004) | 16698 | 0.20645 | 0.2064 |
| 45 2,4-Dinitrophenol | 184 | 15.348 | 15.348 | (1.010) | 1058 | 0.09523 | 0.09523 |
| 46 Dibenzofuran | 168 | 15.595 | 15.595 | (1.026) | 24392 | 0.20451 | 0.2045 |
| 47 4-Nitrophenol | 109 | 15.472 | 15.464 | (1.018) | 2304 | 0.17630 | 0.1763 (M) |
| 48 2,4-Dinitrotoluene | 165 | 15.657 | 15.657 | (1.030) | 9017 | 0.32385 | 0.3239 |
| 50 Diethylphthalate | 149 | 16.168 | 16.175 | (1.064) | 20952 | 0.25059 | 0.2506 |
| 49 Fluorene | 166 | 16.314 | 16.314 | (1.073) | 19868 | 0.21173 | 0.2117 |
| 51 4-Chlorophenyl-phenylether | 204 | 16.299 | 16.306 | (1.072) | 9791 | 0.21942 | 0.2194 |
| 52 4-Nitroaniline | 138 | 16.407 | 16.406 | (1.079) | 5751 | 0.30713 | 0.3071 |
| 53 4,6-Dinitro-2-methylphenol | 198 | 16.499 | 16.507 | (0.904) | 4835 | 0.33061 | 0.3306 |
| 54 N-Nitrosodiphenylamine | 169 | 16.553 | 16.561 | (0.907) | 13154 | 0.20335 | 0.2033 |
| § 55 2,4,6-Tribromophenol | 330 | 16.846 | 16.846 | (1.108) | 3480 | 0.28198 | 0.2820 |
| 56 4-Bromophenyl-phenylether | 248 | 17.309 | 17.316 | (0.948) | 5901 | 0.21806 | 0.2181 |
| 57 Hexachlorobenzene | 284 | 17.626 | 17.634 | (0.966) | 7304 | 0.25743 | 0.2574 |
| 58 Pentachlorophenol | 266 | 17.998 | 17.990 | (0.986) | 4172 | 0.24852 | 0.2485 |
| * 59 Phenanthrene-d10 | 188 | 18.253 | 18.260 | (1.000) | 483839 | 4.00000 | |
| 60 Phenanthrene | 178 | 18.299 | 18.307 | (1.003) | 27659 | 0.20965 | 0.2096 |
| 61 Anthracene | 178 | 18.400 | 18.400 | (1.008) | 25399 | 0.20069 | 0.2007 |
| 62 Carbazole | 167 | 18.733 | 18.732 | (1.026) | 22588 | 0.19918 | 0.1992 |
| 63 Di-n-butylphthalate | 149 | 19.545 | 19.545 | (1.071) | 36410 | 0.23881 | 0.2388 |
| 64 Fluoranthene | 202 | 20.713 | 20.713 | (0.887) | 32088 | 0.18011 | 0.1801 |
| 65 Pyrene | 202 | 21.139 | 21.139 | (0.905) | 32728 | 0.17908 | 0.1791 |
| § 66 Terphenyl-d14 | 244 | 21.433 | 21.433 | (0.918) | 27249 | 0.19854 | 0.1985 |
| 67 Butylbenzylphthalate | 149 | 22.378 | 22.377 | (0.958) | 13847 | 0.21572 | 0.2157 |
| 68 Benzo(a)anthracene | 228 | 23.322 | 23.322 | (0.999) | 33588 | 0.21463 | 0.2146 |
| * 69 Chrysene-d12 | 240 | 23.353 | 23.353 | (1.000) | 443368 | 4.00000 | |
| 70 3,3'-Dichlorobenzidine | 252 | 23.284 | 23.283 | (0.997) | 32318 | 0.64472 | 0.6447 |
| 71 Chrysene | 228 | 23.392 | 23.399 | (1.002) | 31246 | 0.20437 | 0.2044 |
| 72 bis(2-Ethylhexyl)phthalate | 149 | 23.415 | 23.415 | (0.959) | 18609 | 0.18724 | 0.1872 |
| * 134 Di-n-octylphthalate-d4 | 153 | 24.422 | 24.421 | (1.000) | 679545 | 4.00000 | |
| 73 Di-n-octylphthalate | 149 | 24.437 | 24.437 | (1.001) | 35906 | 0.20191 | 0.2019 |
| 74 Benzo(b)fluoranthene | 252 | 25.250 | 25.250 | (0.969) | 32510 | 0.19420 | 0.1942 |
| 75 Benzo(k)fluoranthene | 252 | 25.296 | 25.296 | (0.971) | 38918 | 0.22895 | 0.2290 |
| 76 Benzo(a)pyrene | 252 | 25.924 | 25.923 | (0.995) | 32284 | 0.21570 | 0.2157 |
| * 77 Perylene-d12 | 264 | 26.048 | 26.040 | (1.000) | 516437 | 4.00000 | |
| 78 Indeno(1,2,3-cd)pyrene | 276 | 28.785 | 28.793 | (1.105) | 38477 | 0.20207 | 0.2021 |
| 79 Dibenzo(a,h)anthracene | 278 | 28.809 | 28.816 | (1.106) | 32816 | 0.20758 | 0.2076 |
| 80 Benzo(g,h,i)perylene | 276 | 29.593 | 29.601 | (1.136) | 31258 | 0.18969 | 0.1897 |
| 90 N-Nitrosodimethylamine | 74 | 4.665 | 4.665 | (0.514) | 9740 | 0.37053 | 0.3705 |
| 91 Aniline | 93 | 8.536 | 8.543 | (0.940) | 22857 | 0.39715 | 0.3971 |
| 93 Benzidine | 184 | 20.953 | 20.953 | (0.897) | 21428 | 0.29282 | 0.2928 |
| 103 Pyridine | 79 | 4.712 | 4.696 | (0.519) | 17313 | 0.42885 | 0.4289 |
| 105 1-methylnaphthalene | 142 | 13.235 | 13.235 | (1.144) | 17473 | 0.20749 | 0.2075 |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77 | 16.630 | 16.630 | (1.094) | 16387 | 0.17545 | 0.1755 |

| Compounds | QUANT SIG | | | | | | CONCENTRATIONS | |
|-------------------------------|-----------|--|--------|--------|---------|----------|----------------------|------------------|
| | MASS | | RT | EXP RT | REL RT | RESPONSE | ON-COLUMN (ug/mL) | FINAL (ug/mL) |
| ===== | ===== | | ===== | ===== | ===== | ===== | ===== | ===== |
| 187 Total Benzofluoranthenes | 252 | | 25.250 | 25.296 | (0.969) | 69195 | 0.42810 | 0.4281 |
| 120 2,3,4,6-Tetrachlorophenol | 232 | | 15.943 | 15.935 | (1.049) | 4240 | 0.16055 | 0.1606 |

QC Flag Legend

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

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 23-MAR-2023
 Lab File ID: NT1003222319.D Calibration Time: 03:15
 Lab Smp Id: SLC0397-LCV2
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt10.i\20230322.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|--------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 137603 | 68802 | 275206 | 136247 | -0.99 |
| 27 Naphthalene-d8 | 494588 | 247294 | 989176 | 480759 | -2.80 |
| 42 Acenaphthene-d10 | 278674 | 139337 | 557348 | 262317 | -5.87 |
| 59 Phenanthrene-d10 | 509229 | 254615 | 1018458 | 483839 | -4.99 |
| 69 Chrysene-d12 | 462271 | 231136 | 924542 | 443368 | -4.09 |
| 134 Di-n-octylphthala | 782572 | 391286 | 1565144 | 679545 | -13.17 |
| 77 Perylene-d12 | 551153 | 275577 | 1102306 | 516437 | -6.30 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 9.09 | 8.59 | 9.59 | 9.09 | 0.00 |
| 27 Naphthalene-d8 | 11.57 | 11.07 | 12.07 | 11.57 | 0.00 |
| 42 Acenaphthene-d10 | 15.20 | 14.70 | 15.70 | 15.20 | 0.00 |
| 59 Phenanthrene-d10 | 18.26 | 17.76 | 18.76 | 18.25 | -0.04 |
| 69 Chrysene-d12 | 23.35 | 22.85 | 23.85 | 23.35 | 0.00 |
| 134 Di-n-octylphthala | 24.42 | 23.92 | 24.92 | 24.42 | 0.00 |
| 77 Perylene-d12 | 26.04 | 25.54 | 26.54 | 26.05 | 0.03 |

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

REVIEW SUMMARY FOR FILE - NT1003222319.D

Lab ID: SLC0397-LCV2
nt10.i, 20230322.b\ABN.m, 23-MAR-2023 04:30

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

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

RRT check based on Ccal File: NT1003222317.D

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

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

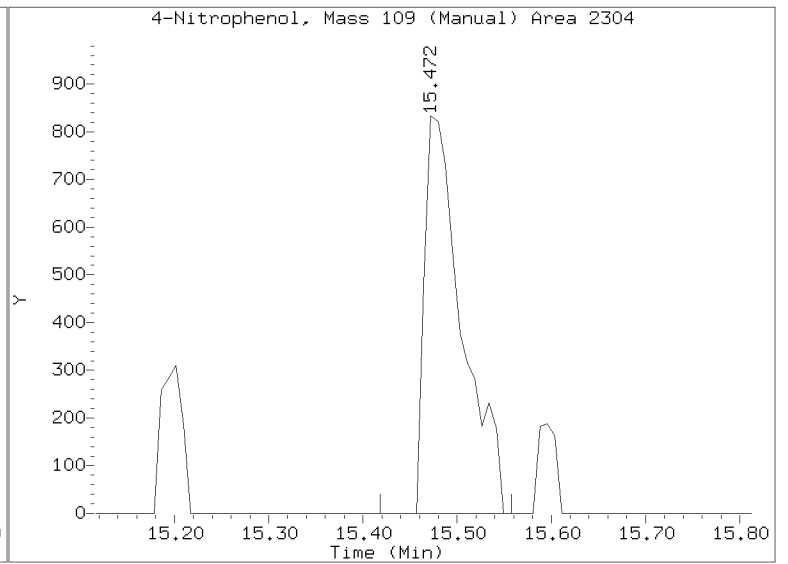
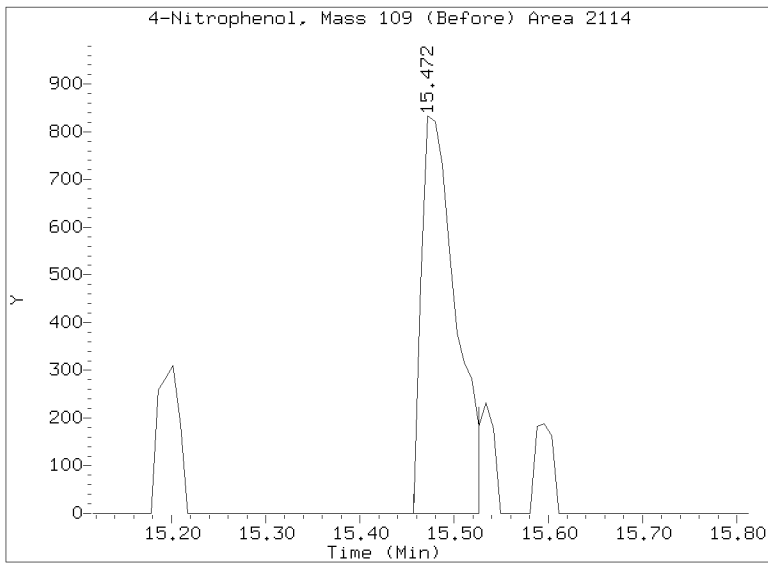
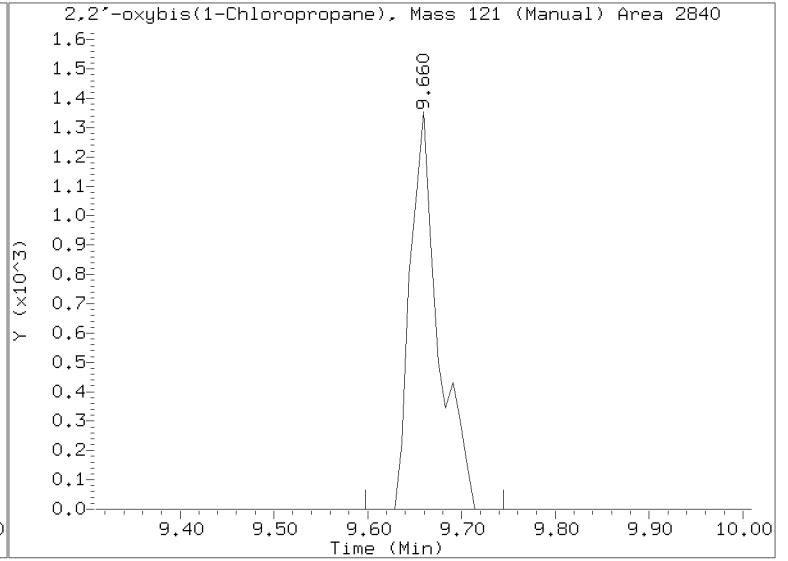
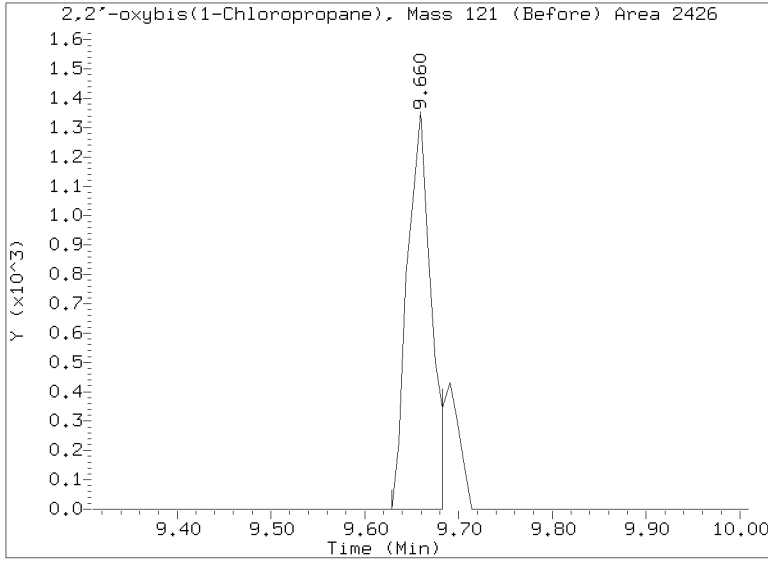
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230322.b/NT1003222319.D

Injection Date: 23-MAR-2023 04:30

Lab ID: SLC0397-LCV2 Client ID:

Report Date: 03/25/2023 10:11





INITIAL CALIBRATION CHECK
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor OEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: NT14

Calibration: GC00033

Lab File ID: NT1423022813.D

Calibration Date: 02/28/2023

Sequence: SLB0374

Injection Date: 03/01/23

Lab Sample ID: SLB0374-ICV1

Injection Time: 08:50

Sequence Name: ABN 5

| COMPOUND | TYPE | CONC. (ug/mL) | | RESPONSE FACTOR | | | % DRIFT/DIFF | |
|------------------------------|------|---------------|------|-----------------|-----------|-----|--------------|---------|
| | | STD | ICV | ICAL | ICV | MIN | ICV | LIMIT |
| Phenol | A | 5.0000 | 5.4 | 1.8373500 | 1.9892870 | | 8.3 | +/-20 |
| bis(2-chloroethyl) ether | A | 5.0000 | 5.0 | 1.5312550 | 1.2623390 | | 1.0 | +/-20 |
| 2-Chlorophenol | A | 5.0000 | 5.2 | 1.3533690 | 1.4155920 | | 4.6 | +/-20 |
| 1,3-Dichlorobenzene | A | 5.0000 | 4.9 | 1.4914740 | 1.4756410 | | -1.1 | +/-20 |
| 1,4-Dichlorobenzene | A | 5.0000 | 4.8 | 1.4740600 | 1.4234390 | | -3.4 | +/-20 |
| 1,2-Dichlorobenzene | A | 5.0000 | 4.9 | 1.4134490 | 1.3890030 | | -1.7 | +/-20 |
| Benzyl Alcohol | A | 5.0000 | 5.1 | 0.6439892 | 0.8355513 | | 2.7 | +/-20 |
| 2,2'-Oxybis(1-chloropropane) | A | 5.0000 | 5.0 | 0.3811859 | 0.3781475 | | -0.8 | +/-20 |
| 2-Methylphenol | A | 5.0000 | 5.4 | 1.1607310 | 1.2510650 | | 7.8 | +/-20 |
| Hexachloroethane | A | 5.0000 | 5.2 | 0.5535732 | 0.5800342 | | 4.8 | +/-20 |
| N-Nitroso-di-n-Propylamine | A | 5.0000 | 5.4 | 0.8837751 | 0.9626080 | | 8.9 | +/-20 |
| 4-Methylphenol | A | 5.0000 | 5.0 | 1.1353050 | 1.3167480 | | -0.6 | +/-20 |
| Nitrobenzene | A | 5.0000 | 5.5 | 0.3760061 | 0.4112261 | | 9.4 | +/-20 |
| Isophorone | A | 5.0000 | 4.5 | 0.4996273 | 0.5265892 | | -9.0 | +/-20 |
| 2-Nitrophenol | A | 5.0000 | 5.5 | 0.1467597 | 0.2166496 | | 10.5 | +/-20 |
| 2,4-Dimethylphenol | A | 10.000 | 10.4 | 0.3427845 | 0.3563619 | | 4.0 | +/-20 |
| Bis(2-Chloroethoxy)methane | A | 5.0000 | 5.1 | 0.3780235 | 0.3827157 | | 1.2 | +/-20 |
| 2,4-Dichlorophenol | A | 10.000 | 6.1 | 0.2946235 | 0.2050094 | | -39.3 | +/-20 * |
| 1,2,4-Trichlorobenzene | A | 5.0000 | 4.9 | 0.3874001 | 0.3821795 | | -1.3 | +/-20 |
| Naphthalene | A | 5.0000 | 5.0 | 1.0669580 | 1.0585500 | | -0.8 | +/-20 |
| Benzoic acid | A | 20.000 | 24.0 | 0.1358415 | 0.1632782 | | 20.2 | +/-20 |
| 4-Chloroaniline | A | 10.000 | 10.4 | 0.4563565 | 0.4724354 | | 3.5 | +/-20 |
| Hexachlorobutadiene | A | 5.0000 | 5.5 | 0.2363916 | 0.2605959 | | 10.2 | +/-20 |
| 4-Chloro-3-Methylphenol | A | 10.000 | 10.8 | 0.3085482 | 0.3338432 | | 8.2 | +/-20 |
| 2-Methylnaphthalene | A | 5.0000 | 5.1 | 0.7901196 | 0.8120346 | | 2.8 | +/-20 |
| Hexachlorocyclopentadiene | A | 10.000 | 9.9 | 0.3443795 | 0.4209140 | | -0.5 | +/-20 |
| 2,4,6-Trichlorophenol | A | 10.000 | 10.8 | 0.3907367 | 0.4234038 | | 8.4 | +/-20 |
| 2,4,5-Trichlorophenol | A | 10.000 | 11.2 | 0.4224702 | 0.4738087 | | 12.2 | +/-20 |
| 2-Chloronaphthalene | A | 5.0000 | 5.1 | 1.2480280 | 1.2621490 | | 1.1 | +/-20 |
| 2-Nitroaniline | A | 10.000 | 11.1 | 0.3254949 | 0.3605404 | | 10.8 | +/-20 |

* Values outside of QC limits



INITIAL CALIBRATION CHECK
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: NT14

Calibration: GC00033

Lab File ID: NT1423022813.D

Calibration Date: 02/28/2023

Sequence: SLB0374

Injection Date: 03/01/23

Lab Sample ID: SLB0374-ICV1

Injection Time: 08:50

Sequence Name: ABN 5

| COMPOUND | TYPE | CONC. (ug/mL) | | RESPONSE FACTOR | | | % DRIFT/DIFF | |
|----------------------------|------|---------------|------|-----------------|-----------|-----|--------------|-------|
| | | STD | ICV | ICAL | ICV | MIN | ICV | LIMIT |
| Acenaphthylene | A | 5.0000 | 5.1 | 1.8312950 | 1.8818650 | | 2.8 | +/-20 |
| Dimethylphthalate | A | 5.0000 | 5.2 | 1.2581570 | 1.3136930 | | 4.4 | +/-20 |
| 2,6-Dinitrotoluene | A | 10.000 | 10.4 | 0.2948315 | 0.3062512 | | 3.9 | +/-20 |
| Acenaphthene | A | 5.0000 | 5.0 | 1.1724930 | 1.1674520 | | -0.4 | +/-20 |
| 3-Nitroaniline | A | 10.000 | 10.4 | 0.3021810 | 0.3126155 | | 3.5 | +/-20 |
| 2,4-Dinitrophenol | A | 20.000 | 19.1 | 0.1437811 | 0.1855311 | | -4.7 | +/-20 |
| Dibenzofuran | A | 5.0000 | 5.0 | 1.8656210 | 1.8775800 | | 0.6 | +/-20 |
| 4-Nitrophenol | A | 10.000 | 10.2 | 0.1323756 | 0.1574063 | | 2.3 | +/-20 |
| 2,4-Dinitrotoluene | A | 10.000 | 10.5 | 0.4244424 | 0.4463798 | | 5.2 | +/-20 |
| Fluorene | A | 5.0000 | 4.9 | 1.5719010 | 1.5407510 | | -2.0 | +/-20 |
| 4-Chlorophenylphenyl ether | A | 5.0000 | 4.8 | 0.8363665 | 0.8083093 | | -3.4 | +/-20 |
| Diethyl phthalate | A | 5.0000 | 5.3 | 1.1765440 | 1.2546840 | | 6.6 | +/-20 |
| 4-Nitroaniline | A | 10.000 | 11.0 | 0.2995450 | 0.3306344 | | 10.4 | +/-20 |
| 4,6-Dinitro-2-methylphenol | A | 20.000 | 20.0 | 0.0975169 | 0.1341127 | | -0.2 | +/-20 |
| N-Nitrosodiphenylamine | A | 5.0000 | 5.0 | 0.5026629 | 0.5076086 | | 1.0 | +/-20 |
| 4-Bromophenyl phenyl ether | A | 5.0000 | 5.2 | 0.2209900 | 0.2307385 | | 4.4 | +/-20 |
| Hexachlorobenzene | A | 5.0000 | 5.1 | 0.2429692 | 0.2456849 | | 1.1 | +/-20 |
| Pentachlorophenol | A | 10.000 | 10.2 | 0.0938263 | 0.1222091 | | 2.0 | +/-20 |
| Phenanthrene | A | 5.0000 | 5.0 | 1.0640870 | 1.0574490 | | -0.6 | +/-20 |
| Anthracene | A | 5.0000 | 5.3 | 1.0059580 | 1.0748550 | | 6.8 | +/-20 |
| Carbazole | A | 5.0000 | 4.6 | 0.8816605 | 0.8049119 | | -8.7 | +/-20 |
| Di-n-Butylphthalate | A | 5.0000 | 5.0 | 0.9469101 | 1.1183910 | | 0.04 | +/-20 |
| Fluoranthene | A | 5.0000 | 5.3 | 1.5175930 | 1.6177310 | | 6.6 | +/-20 |
| Pyrene | A | 5.0000 | 5.5 | 1.6000330 | 1.7614290 | | 10.1 | +/-20 |
| Butylbenzylphthalate | A | 5.0000 | 5.1 | 0.4562763 | 0.5661279 | | 2.0 | +/-20 |
| Benzo(a)anthracene | A | 5.0000 | 5.3 | 1.3399020 | 1.4216220 | | 6.1 | +/-20 |
| 3,3'-Dichlorobenzidine | A | 15.000 | 12.1 | 0.3826468 | 0.3082468 | | -19.5 | +/-20 |
| Chrysene | A | 5.0000 | 5.0 | 1.2879040 | 1.2981690 | | 0.8 | +/-20 |
| bis(2-Ethylhexyl)phthalate | A | 5.0000 | 5.2 | 0.5161185 | 0.6309180 | | 3.9 | +/-20 |
| Di-n-Octylphthalate | A | 5.0000 | 4.9 | 1.0531830 | 1.0406710 | | -1.2 | +/-20 |

* Values outside of QC limits



INITIAL CALIBRATION CHECK
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: NT14

Calibration: GC00033

Lab File ID: NT1423022813.D

Calibration Date: 02/28/2023

Sequence: SLB0374

Injection Date: 03/01/23

Lab Sample ID: SLB0374-ICV1

Injection Time: 08:50

Sequence Name: ABN 5

| COMPOUND | TYPE | CONC. (ug/mL) | | RESPONSE FACTOR | | | % DRIFT/DIFF | |
|---------------------------|------|---------------|------|-----------------|-----------|-----|--------------|-------|
| | | STD | ICV | ICAL | ICV | MIN | ICV | LIMIT |
| Benzofluoranthenes, Total | A | 10.000 | 10.4 | 1.2927770 | 1.3452390 | | 4.1 | +/-20 |
| Benzo(a)pyrene | A | 5.0000 | 5.4 | 1.1338150 | 1.2253330 | | 8.1 | +/-20 |
| Indeno(1,2,3-cd)pyrene | A | 5.0000 | 5.3 | 1.4272450 | 1.5084330 | | 5.7 | +/-20 |
| Dibenzo(a,h)anthracene | A | 5.0000 | 5.2 | 1.2122070 | 1.2596120 | | 3.9 | +/-20 |
| Benzo(g,h,i)perylene | A | 5.0000 | 5.3 | 1.2448130 | 1.3072840 | | 5.0 | +/-20 |
| 1-Methylnaphthalene | A | 5.0000 | 5.1 | 0.7274101 | 0.7487216 | | 2.9 | +/-20 |
| 2-Fluorophenol | A | 7.5000 | 8.89 | 1.0846110 | 1.2848420 | | 18.5 | +/-20 |
| Phenol-d5 | A | 7.5000 | 8.39 | 1.5399100 | 1.7226200 | | 11.9 | +/-20 |
| 2-Chlorophenol-d4 | A | 7.5000 | 8.12 | 1.3093910 | 1.4179910 | | 8.3 | +/-20 |
| 1,2-Dichlorobenzene-d4 | A | 5.0000 | 4.91 | 0.9857584 | 0.9685117 | | -1.7 | +/-20 |
| Nitrobenzene-d5 | A | 5.0000 | 5.55 | 0.3912861 | 0.4346122 | | 11.1 | +/-20 |
| 2-Fluorobiphenyl | A | 5.0000 | 4.96 | 1.5568580 | 1.5451030 | | -0.8 | +/-20 |
| 2,4,6-Tribromophenol | A | 7.5000 | 7.47 | 0.1850894 | 0.2209858 | | -0.4 | +/-20 |
| p-Terphenyl-d14 | A | 5.0000 | 5.11 | 1.2319340 | 1.2596940 | | 2.3 | +/-20 |
| 1,4-Dichlorobenzene-d4 | A | 4.0000 | 4.0 | 28848.5700 | 1.0000 | | 0.0 | |
| Naphthalene-d8 | A | 4.0000 | 4.0 | 103564.8000 | 1.0000 | | 0.0 | |
| Acenaphthene-d10 | A | 4.0000 | 4.0 | 62651.1800 | 1.0000 | | 0.0 | |
| Phenanthrene-d10 | A | 4.0000 | 4.0 | 123124.0000 | 1.0000 | | 0.0 | |
| Chrysene-d12 | A | 4.0000 | 4.0 | 97764.2100 | 1.0000 | | 0.0 | |
| Di-n-Octylphthalate-d4 | A | 4.0000 | 4.0 | 118315.4000 | 1.0000 | | 0.0 | |
| Perylene-d12 | A | 4.0000 | 4.0 | 94293.2500 | 1.0000 | | 0.0 | |

* Values outside of QC limits

* Values outside of QC limits

Data File: \\target\share\chem3\nt14,1\20230228,16\NT1423022813.D

Date : 01-MAR-2023 08:50

Client ID:

Sample Info: SLB0374-ICW1

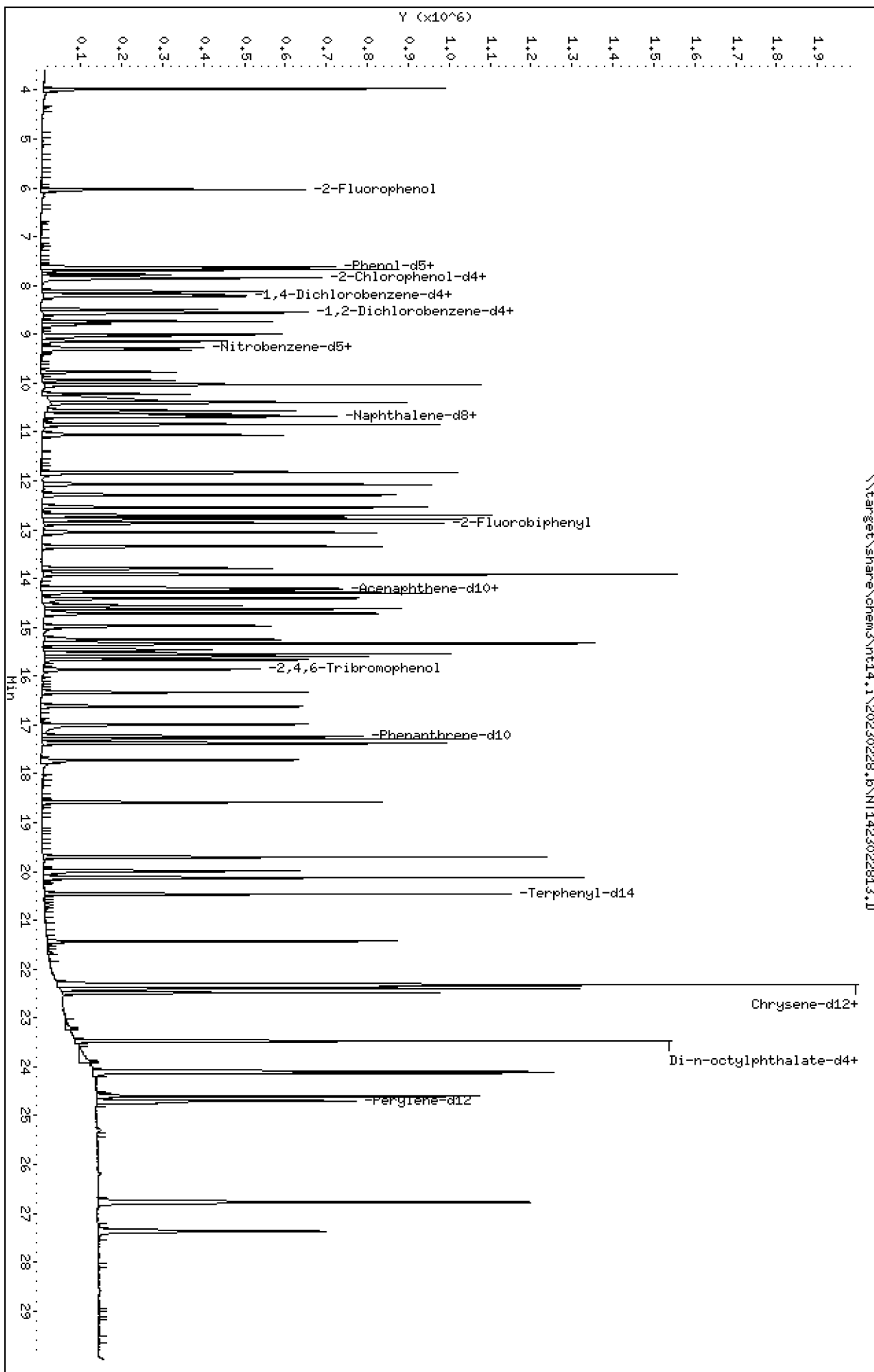
Column phase: ZB-5msi

Instrument: nt14,1

Operator: JGR

Column diameter: 0.25

\\target\share\chem3\nt14,1\20230228,16\NT1423022813.D



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230228.b\NT1423022813.D
 Lab Smp Id: SLB0374-ICV1
 Inj Date : 01-MAR-2023 08:50 MS Autotune Date: 17-MAY-2011 01:22
 Operator : JGR Inst ID: nt14.i
 Smp Info : SLB0374-ICV1
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt14.i\20230228.b\ABN.m
 Meth Date : 14-Mar-2023 08:52 van Quant Type: ISTD
 Cal Date : 28-FEB-2023 15:16 Cal File: NT1423022808.D
 Als bottle: 4 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: ICAL.sub
 Target Version: 4.14
 Processing Host: VANS-201906

| Compounds | QUANT | SIG | RT | EXP RT | REL RT | RESPONSE | AMOUNTS | |
|---------------------------------|-------|-----|--------|--------|---------|----------|--------------------|-------------------|
| | | | | | | | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| \$ 1 2-Fluorophenol | 112 | | 6.035 | 6.050 | (0.737) | 314368 | 7.50000 | 8.885 |
| \$ 2 Phenol-d5 | 99 | | 7.619 | 7.642 | (0.930) | 421481 | 7.50000 | 8.390 |
| 3 Phenol | 94 | | 7.642 | 7.665 | (0.933) | 324485 | 5.00000 | 5.413 |
| \$ 5 2-Chlorophenol-d4 | 132 | | 7.843 | 7.850 | (0.957) | 346946 | 7.50000 | 8.122 |
| 4 Bis(2-Chloroethyl)ether | 93 | | 7.773 | 7.781 | (0.949) | 205908 | 5.00000 | 5.048 |
| 6 2-Chlorophenol | 128 | | 7.866 | 7.881 | (0.960) | 230906 | 5.00000 | 5.230 |
| 7 1,3-Dichlorobenzene | 146 | | 8.121 | 8.129 | (0.991) | 240701 | 5.00000 | 4.947 |
| * 8 1,4-Dichlorobenzene-d4 | 152 | | 8.191 | 8.199 | (1.000) | 130493 | 4.00000 | |
| 9 1,4-Dichlorobenzene | 146 | | 8.222 | 8.230 | (1.004) | 232186 | 5.00000 | 4.828 |
| \$ 10 1,2-Dichlorobenzene-d4 | 152 | | 8.540 | 8.548 | (1.043) | 157980 | 5.00000 | 4.913 |
| 12 1,2-Dichlorobenzene | 146 | | 8.564 | 8.571 | (1.045) | 226569 | 5.00000 | 4.914 |
| 11 Benzyl alcohol | 108 | | 8.494 | 8.509 | (1.037) | 136292 | 5.00000 | 5.135 |
| 14 2,2'-oxybis(1-Chloropropane) | 121 | | 8.789 | 8.789 | (1.073) | 61682 | 5.00000 | 4.960 |
| 13 2-Methylphenol | 108 | | 8.734 | 8.750 | (1.066) | 204069 | 5.00000 | 5.389 |
| 17 Hexachloroethane | 117 | | 9.146 | 9.154 | (1.117) | 94613 | 5.00000 | 5.239 |
| 16 N-Nitroso-di-n-propylamine | 70 | | 9.045 | 9.053 | (1.104) | 157017 | 5.00000 | 5.446 |
| 15 4-Methylphenol | 108 | | 9.006 | 9.022 | (1.099) | 214783 | 5.00000 | 4.970 |
| \$ 18 Nitrobenzene-d5 | 82 | | 9.278 | 9.285 | (0.872) | 254529 | 5.00000 | 5.554 |
| 19 Nitrobenzene | 77 | | 9.317 | 9.324 | (0.875) | 240833 | 5.00000 | 5.468 |
| 20 Isophorone | 82 | | 9.767 | 9.774 | (0.918) | 308395 | 5.00000 | 4.549 |
| 21 2-Nitrophenol | 139 | | 9.937 | 9.945 | (0.934) | 126880 | 5.00000 | 5.526 |
| 22 2,4-Dimethylphenol | 107 | | 10.030 | 10.046 | (0.943) | 417404 | 10.0000 | 10.40 |
| 23 Bis(2-Chloroethoxy)methane | 93 | | 10.224 | 10.224 | (0.961) | 224136 | 5.00000 | 5.062 |
| 24 Benzoic acid | 105 | | 10.348 | 10.364 | (0.972) | 382493 | 20.0000 | 24.04 |
| 25 2,4-Dichlorophenol | 162 | | 10.403 | 10.410 | (0.978) | 240126 | 10.0000 | 6.074 |
| 26 1,2,4-Trichlorobenzene | 180 | | 10.565 | 10.572 | (0.993) | 223822 | 5.00000 | 4.933 |
| * 27 Naphthalene-d8 | 136 | | 10.642 | 10.649 | (1.000) | 468517 | 4.00000 | |
| 28 Naphthalene | 128 | | 10.688 | 10.688 | (1.004) | 619936 | 5.00000 | 4.961 |
| 29 4-Chloroaniline | 127 | | 10.843 | 10.850 | (1.019) | 553360 | 10.0000 | 10.35 |
| 30 Hexachlorobutadiene | 225 | | 11.059 | 11.066 | (1.039) | 152617 | 5.00000 | 5.512 |
| 31 4-Chloro-3-methylphenol | 107 | | 11.833 | 11.848 | (1.112) | 391028 | 10.0000 | 10.82 |
| 32 2-Methylnaphthalene | 142 | | 12.073 | 12.080 | (1.134) | 475565 | 5.00000 | 5.139 |
| 33 Hexachlorocyclopentadiene | 237 | | 12.545 | 12.545 | (0.881) | 302110 | 10.0000 | 9.949 |

| Compounds | QUANT SIG | | | AMOUNTS | | | |
|-----------------------------------|-----------|--------|--------|---------|----------|--------------------|-------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| 34 2,4,6-Trichlorophenol | 196 | 12.707 | 12.723 | (0.893) | 303897 | 10.0000 | 10.84 |
| 35 2,4,5-Trichlorophenol | 196 | 12.785 | 12.800 | (0.898) | 340075 | 10.0000 | 11.22 |
| § 36 2-Fluorobiphenyl | 172 | 12.870 | 12.877 | (0.904) | 554497 | 5.00000 | 4.962 |
| 37 2-Chloronaphthalene | 162 | 13.055 | 13.063 | (0.917) | 452952 | 5.00000 | 5.057 |
| 38 2-Nitroaniline | 65 | 13.342 | 13.349 | (0.937) | 258777 | 10.0000 | 11.08 |
| 39 Dimethylphthalate | 163 | 13.798 | 13.798 | (0.970) | 471450 | 5.00000 | 5.221 |
| 40 Acenaphthylene | 152 | 13.915 | 13.922 | (0.978) | 675352 | 5.00000 | 5.138 |
| 41 2,6-Dinitrotoluene | 165 | 13.922 | 13.930 | (0.978) | 219811 | 10.0000 | 10.39 |
| * 42 Acenaphthene-d10 | 164 | 14.232 | 14.239 | (1.000) | 287099 | 4.00000 | |
| 43 3-Nitroaniline | 138 | 14.201 | 14.208 | (0.998) | 224379 | 10.0000 | 10.35 |
| 44 Acenaphthene | 153 | 14.294 | 14.301 | (1.004) | 418968 | 5.00000 | 4.979 |
| 45 2,4-Dinitrophenol | 184 | 14.410 | 14.417 | (1.012) | 266329 | 20.0000 | 19.06 |
| 46 Dibenzofuran | 168 | 14.626 | 14.634 | (1.028) | 673814 | 5.00000 | 5.032 |
| 47 4-Nitrophenol | 109 | 14.556 | 14.587 | (1.023) | 112978 | 10.0000 | 10.23 |
| 48 2,4-Dinitrotoluene | 165 | 14.719 | 14.726 | (1.034) | 320388 | 10.0000 | 10.52 |
| 50 Diethylphthalate | 149 | 15.252 | 15.252 | (1.072) | 450273 | 5.00000 | 5.332 |
| 49 Fluorene | 166 | 15.330 | 15.337 | (1.077) | 552935 | 5.00000 | 4.901 |
| 51 4-Chlorophenyl-phenylether | 204 | 15.345 | 15.345 | (1.078) | 290081 | 5.00000 | 4.832 |
| 52 4-Nitroaniline | 138 | 15.461 | 15.469 | (1.086) | 237312 | 10.0000 | 11.04 |
| 53 4,6-Dinitro-2-methylphenol | 198 | 15.546 | 15.553 | (0.902) | 376899 | 20.0000 | 19.96 |
| 54 N-Nitrosodiphenylamine | 169 | 15.600 | 15.607 | (0.905) | 356635 | 5.00000 | 5.049 |
| § 55 2,4,6-Tribromophenol | 330 | 15.862 | 15.870 | (1.115) | 118959 | 7.50000 | 7.470 |
| 56 4-Bromophenyl-phenylether | 248 | 16.332 | 16.340 | (0.947) | 162112 | 5.00000 | 5.221 |
| 57 Hexachlorobenzene | 284 | 16.626 | 16.634 | (0.965) | 172613 | 5.00000 | 5.056 |
| 58 Pentachlorophenol | 266 | 16.990 | 17.005 | (0.986) | 171723 | 10.0000 | 10.20 |
| * 59 Phenanthrene-d10 | 188 | 17.237 | 17.245 | (1.000) | 562063 | 4.00000 | |
| 60 Phenanthrene | 178 | 17.284 | 17.291 | (1.003) | 742941 | 5.00000 | 4.969 |
| 61 Anthracene | 178 | 17.377 | 17.384 | (1.008) | 755170 | 5.00000 | 5.342 |
| 62 Carbazole | 167 | 17.717 | 17.732 | (1.028) | 565514 | 5.00000 | 4.565 |
| 63 Di-n-butylphthalate | 149 | 18.584 | 18.591 | (1.078) | 785758 | 5.00000 | 5.002 |
| 64 Fluoranthene | 202 | 19.705 | 19.713 | (0.882) | 885625 | 5.00000 | 5.330 |
| 65 Pyrene | 202 | 20.131 | 20.139 | (0.901) | 964292 | 5.00000 | 5.504 |
| § 66 Terphenyl-d14 | 244 | 20.464 | 20.471 | (0.915) | 689618 | 5.00000 | 5.113 |
| 67 Butylbenzylphthalate | 149 | 21.432 | 21.439 | (0.959) | 309926 | 5.00000 | 5.098 |
| 68 Benzo(a)anthracene | 228 | 22.330 | 22.337 | (0.999) | 778265 | 5.00000 | 5.305 |
| * 69 Chrysene-d12 | 240 | 22.353 | 22.368 | (1.000) | 437959 | 4.00000 | |
| 70 3,3'-Dichlorobenzidine | 252 | 22.314 | 22.330 | (0.998) | 506248 | 15.0000 | 12.08 |
| 71 Chrysene | 228 | 22.400 | 22.415 | (1.002) | 710681 | 5.00000 | 5.040 |
| 72 bis(2-Ethylhexyl)phthalate | 149 | 22.485 | 22.492 | (0.958) | 443533 | 5.00000 | 5.196 |
| * 134 Di-n-octylphthalate-d4 | 153 | 23.468 | 23.476 | (1.000) | 562397 | 4.00000 | |
| 73 Di-n-octylphthalate | 149 | 23.476 | 23.483 | (1.000) | 731588 | 5.00000 | 4.941 |
| 74 Benzo(b)fluoranthene | 252 | 24.087 | 24.103 | (0.975) | 745852 | 5.00000 | 5.467 |
| 75 Benzo(k)fluoranthene | 252 | 24.126 | 24.141 | (0.977) | 729732 | 5.00000 | 4.958 |
| 76 Benzo(a)pyrene | 252 | 24.606 | 24.621 | (0.996) | 632491 | 5.00000 | 5.404 |
| * 77 Perylene-d12 | 264 | 24.699 | 24.714 | (1.000) | 412943 | 4.00000 | |
| 78 Indeno(1,2,3-cd)pyrene | 276 | 26.769 | 26.784 | (1.084) | 778621 | 5.00000 | 5.284 |
| 79 Dibenzo(a,h)anthracene | 278 | 26.785 | 26.800 | (1.084) | 650185 | 5.00000 | 5.196 |
| 80 Benzo(g,h,i)perylene | 276 | 27.367 | 27.383 | (1.108) | 674792 | 5.00000 | 5.251 |
| 90 N-Nitrosodimethylamine | 74 | 3.973 | 3.988 | (0.485) | 265214 | 10.0000 | 10.80 |
| 91 Aniline | 93 | 7.673 | 7.681 | (0.937) | 596618 | 10.0000 | 10.21 |
| 93 Benzidine | 184 | 19.984 | 19.992 | (0.894) | 474936 | 10.0000 | 6.839 |
| 103 Pyridine | 79 | 3.973 | 3.988 | (0.485) | 411065 | 5.00000 | 5.470 |
| 105 1-methylnaphthalene | 142 | 12.289 | 12.297 | (1.155) | 438486 | 5.00000 | 5.146 |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77 | 15.662 | 15.669 | (1.100) | 501049 | 5.00000 | 5.168 |

| Compounds | QUANT SIG | | | | | | AMOUNTS | |
|-------------------------------|-----------|--|--------|--------|---------|----------|--------------------|-------------------|
| | MASS | | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| ===== | ===== | | ===== | ===== | ===== | ===== | ===== | |
| 187 Total Benzofluoranthenes | 252 | | 24.126 | 24.141 | (0.977) | 1388768 | 10.0000 | 10.41 |
| 120 2,3,4,6-Tetrachlorophenol | 232 | | 14.974 | 14.981 | (1.052) | 151117 | 5.00000 | 4.571 |

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 28-FEB-2023
 Lab File ID: NT1423022813.D Calibration Time: 12:51
 Lab Smp Id: SLB0374-ICV1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: JGR
 Method File: \\target\share\chem3\nt14.i\20230228.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 116519 | 58260 | 233038 | 130493 | 11.99 |
| 27 Naphthalene-d8 | 429090 | 214545 | 858180 | 468517 | 9.19 |
| 42 Acenaphthene-d10 | 250637 | 125319 | 501274 | 287099 | 14.55 |
| 59 Phenanthrene-d10 | 458117 | 229059 | 916234 | 562063 | 22.69 |
| 69 Chrysene-d12 | 393468 | 196734 | 786936 | 437959 | 11.31 |
| 134 Di-n-octylphthala | 572636 | 286318 | 1145272 | 562397 | -1.79 |
| 77 Perylene-d12 | 283320 | 141660 | 566640 | 412943 | 45.75 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 8.21 | 7.71 | 8.71 | 8.19 | -0.19 |
| 27 Naphthalene-d8 | 10.67 | 10.17 | 11.17 | 10.64 | -0.22 |
| 42 Acenaphthene-d10 | 14.25 | 13.75 | 14.75 | 14.23 | -0.11 |
| 59 Phenanthrene-d10 | 17.25 | 16.75 | 17.75 | 17.24 | -0.09 |
| 69 Chrysene-d12 | 22.38 | 21.88 | 22.88 | 22.35 | -0.10 |
| 134 Di-n-octylphthala | 23.48 | 22.98 | 23.98 | 23.47 | -0.07 |
| 77 Perylene-d12 | 24.73 | 24.23 | 25.23 | 24.70 | -0.13 |

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

REVIEW SUMMARY FOR FILE - NT1423022813.D

Lab ID: SLB0374-ICV1
nt14.i, ABN.m, 01-MAR-2023 08:50

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

No RRT check. Ccal file.

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

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

Q-FLAG SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20230228.b

Instrument: nt14.i Date: 01-MAR-2023 Method: ABN.m

INITIAL CAL: 28-FEB-2023

| Compound | %RSD or R ² |
|--------------|------------------------|
| Benzoic acid | 53.2 |

ICV CAL: NT1423022813.D 01-MAR-2023 08:50

| Compound | %D |
|--------------------|-------|
| 2,4-Dichlorophenol | -39.3 |
| Benzidine | -31.6 |



INITIAL CALIBRATION CHECK
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: NT14

Calibration: GC00033

Lab File ID: NT1423022821.D

Calibration Date: 02/28/2023

Sequence: SLB0374

Injection Date: 03/01/23

Lab Sample ID: SLB0374-ICV2

Injection Time: 13:39

Sequence Name: ABN 5

| COMPOUND | TYPE | CONC. (ug/mL) | | RESPONSE FACTOR | | | % DRIFT/DIFF | |
|------------------------------|------|---------------|------|-----------------|-----------|-----|--------------|---------|
| | | STD | ICV | ICAL | ICV | MIN | ICV | LIMIT |
| Phenol | A | 5.0000 | 5.5 | 1.8373500 | 2.0093350 | | 9.4 | +/-20 |
| bis(2-chloroethyl) ether | A | 5.0000 | 5.1 | 1.5312550 | 1.2708030 | | 1.7 | +/-20 |
| 2-Chlorophenol | A | 5.0000 | 5.0 | 1.3533690 | 1.3549710 | | 0.1 | +/-20 |
| 1,3-Dichlorobenzene | A | 5.0000 | 5.0 | 1.4914740 | 1.4898400 | | -0.1 | +/-20 |
| 1,4-Dichlorobenzene | A | 5.0000 | 4.9 | 1.4740600 | 1.4338890 | | -2.7 | +/-20 |
| 1,2-Dichlorobenzene | A | 5.0000 | 5.0 | 1.4134490 | 1.4044260 | | -0.6 | +/-20 |
| Benzyl Alcohol | A | 5.0000 | 5.6 | 0.6439892 | 0.9179344 | | 12.7 | +/-20 |
| 2,2'-Oxybis(1-chloropropane) | A | 5.0000 | 5.0 | 0.3811859 | 0.3832535 | | 0.5 | +/-20 |
| 2-Methylphenol | A | 5.0000 | 5.6 | 1.1607310 | 1.3094830 | | 12.8 | +/-20 |
| Hexachloroethane | A | 5.0000 | 4.7 | 0.5535732 | 0.5192788 | | -6.2 | +/-20 |
| N-Nitroso-di-n-Propylamine | A | 5.0000 | 5.7 | 0.8837751 | 1.0161760 | | 15.0 | +/-20 |
| 4-Methylphenol | A | 5.0000 | 5.1 | 1.1353050 | 1.3503500 | | 2.0 | +/-20 |
| Nitrobenzene | A | 5.0000 | 5.6 | 0.3760061 | 0.4246694 | | 12.9 | +/-20 |
| Isophorone | A | 5.0000 | 5.3 | 0.4996273 | 0.6149679 | | 6.5 | +/-20 |
| 2-Nitrophenol | A | 5.0000 | 5.9 | 0.1467597 | 0.2328305 | | 18.7 | +/-20 |
| 2,4-Dimethylphenol | A | 10.000 | 10.7 | 0.3427845 | 0.3654379 | | 6.6 | +/-20 |
| Bis(2-Chloroethoxy)methane | A | 5.0000 | 5.2 | 0.3780235 | 0.3919070 | | 3.7 | +/-20 |
| 2,4-Dichlorophenol | A | 10.000 | 7.7 | 0.2946235 | 0.2561705 | | -23.5 | +/-20 * |
| 1,2,4-Trichlorobenzene | A | 5.0000 | 4.8 | 0.3874001 | 0.3707729 | | -4.3 | +/-20 |
| Naphthalene | A | 5.0000 | 5.0 | 1.0669580 | 1.0702650 | | 0.3 | +/-20 |
| Benzoic acid | A | 20.000 | 28.1 | 0.1358415 | 0.1910867 | | 40.7 | +/-20 * |
| 4-Chloroaniline | A | 10.000 | 10.7 | 0.4563565 | 0.4871767 | | 6.8 | +/-20 |
| Hexachlorobutadiene | A | 5.0000 | 5.3 | 0.2363916 | 0.2523293 | | 6.7 | +/-20 |
| 4-Chloro-3-Methylphenol | A | 10.000 | 11.2 | 0.3085482 | 0.3465326 | | 12.3 | +/-20 |
| 2-Methylnaphthalene | A | 5.0000 | 5.1 | 0.7901196 | 0.8132196 | | 2.9 | +/-20 |
| Hexachlorocyclopentadiene | A | 10.000 | 3.3 | 0.3443795 | 0.1406697 | | -66.6 | +/-20 * |
| 2,4,6-Trichlorophenol | A | 10.000 | 11.1 | 0.3907367 | 0.4333057 | | 10.9 | +/-20 |
| 2,4,5-Trichlorophenol | A | 10.000 | 11.3 | 0.4224702 | 0.4777401 | | 13.1 | +/-20 |
| 2-Chloronaphthalene | A | 5.0000 | 5.1 | 1.2480280 | 1.2790200 | | 2.5 | +/-20 |
| 2-Nitroaniline | A | 10.000 | 12.1 | 0.3254949 | 0.3924085 | | 20.6 | +/-20 * |

* Values outside of QC limits



INITIAL CALIBRATION CHECK
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: NT14

Calibration: GC00033

Lab File ID: NT1423022821.D

Calibration Date: 02/28/2023

Sequence: SLB0374

Injection Date: 03/01/23

Lab Sample ID: SLB0374-ICV2

Injection Time: 13:39

Sequence Name: ABN 5

| COMPOUND | TYPE | CONC. (ug/mL) | | RESPONSE FACTOR | | | % DRIFT/DIFF | |
|----------------------------|------|---------------|------|-----------------|-----------|-----|--------------|---------|
| | | STD | ICV | ICAL | ICV | MIN | ICV | LIMIT |
| Acenaphthylene | A | 5.0000 | 5.3 | 1.8312950 | 1.9325490 | | 5.5 | +/-20 |
| Dimethylphthalate | A | 5.0000 | 5.4 | 1.2581570 | 1.3498040 | | 7.3 | +/-20 |
| 2,6-Dinitrotoluene | A | 10.000 | 10.6 | 0.2948315 | 0.3137757 | | 6.4 | +/-20 |
| Acenaphthene | A | 5.0000 | 5.0 | 1.1724930 | 1.1723240 | | -0.02 | +/-20 |
| 3-Nitroaniline | A | 10.000 | 11.0 | 0.3021810 | 0.3319714 | | 9.9 | +/-20 |
| 2,4-Dinitrophenol | A | 20.000 | 19.5 | 0.1437811 | 0.1903360 | | -2.4 | +/-20 |
| Dibenzofuran | A | 5.0000 | 5.0 | 1.8656210 | 1.8704340 | | 0.3 | +/-20 |
| 4-Nitrophenol | A | 10.000 | 9.9 | 0.1323756 | 0.1514813 | | -1.5 | +/-20 |
| 2,4-Dinitrotoluene | A | 10.000 | 10.5 | 0.4244424 | 0.4454030 | | 4.9 | +/-20 |
| Fluorene | A | 5.0000 | 5.0 | 1.5719010 | 1.5694210 | | -0.2 | +/-20 |
| 4-Chlorophenylphenyl ether | A | 5.0000 | 4.7 | 0.8363665 | 0.7853517 | | -6.1 | +/-20 |
| Diethyl phthalate | A | 5.0000 | 5.5 | 1.1765440 | 1.2856470 | | 9.3 | +/-20 |
| 4-Nitroaniline | A | 10.000 | 10.6 | 0.2995450 | 0.3167737 | | 5.8 | +/-20 |
| 4,6-Dinitro-2-methylphenol | A | 20.000 | 19.6 | 0.0975169 | 0.1319041 | | -1.9 | +/-20 |
| N-Nitrosodiphenylamine | A | 5.0000 | 5.2 | 0.5026629 | 0.5225111 | | 3.9 | +/-20 |
| 4-Bromophenyl phenyl ether | A | 5.0000 | 5.2 | 0.2209900 | 0.2278333 | | 3.1 | +/-20 |
| Hexachlorobenzene | A | 5.0000 | 5.0 | 0.2429692 | 0.2451451 | | 0.9 | +/-20 |
| Pentachlorophenol | A | 10.000 | 11.3 | 0.0938263 | 0.1358059 | | 12.7 | +/-20 |
| Phenanthrene | A | 5.0000 | 4.9 | 1.0640870 | 1.0450850 | | -1.8 | +/-20 |
| Anthracene | A | 5.0000 | 5.4 | 1.0059580 | 1.0781720 | | 7.2 | +/-20 |
| Carbazole | A | 5.0000 | 5.2 | 0.8816605 | 0.9203634 | | 4.4 | +/-20 |
| Di-n-Butylphthalate | A | 5.0000 | 5.4 | 0.9469101 | 1.2128690 | | 8.7 | +/-20 |
| Fluoranthene | A | 5.0000 | 5.1 | 1.5175930 | 1.5534010 | | 2.4 | +/-20 |
| Pyrene | A | 5.0000 | 4.9 | 1.6000330 | 1.5709610 | | -1.8 | +/-20 |
| Butylbenzylphthalate | A | 5.0000 | 5.6 | 0.4562763 | 0.6236438 | | 12.6 | +/-20 |
| Benzo(a)anthracene | A | 5.0000 | 5.3 | 1.3399020 | 1.4262830 | | 6.4 | +/-20 |
| 3,3'-Dichlorobenzidine | A | 15.000 | 19.4 | 0.3826468 | 0.4941600 | | 29.1 | +/-20 * |
| Chrysene | A | 5.0000 | 5.0 | 1.2879040 | 1.2997390 | | 0.9 | +/-20 |
| bis(2-Ethylhexyl)phthalate | A | 5.0000 | 4.8 | 0.5161185 | 0.5847030 | | -3.7 | +/-20 |
| Di-n-Octylphthalate | A | 5.0000 | 4.7 | 1.0531830 | 0.9962874 | | -5.4 | +/-20 |

* Values outside of QC limits



INITIAL CALIBRATION CHECK
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: NT14

Calibration: GC00033

Lab File ID: NT1423022821.D

Calibration Date: 02/28/2023

Sequence: SLB0374

Injection Date: 03/01/23

Lab Sample ID: SLB0374-ICV2

Injection Time: 13:39

Sequence Name: ABN 5

| COMPOUND | TYPE | CONC. (ug/mL) | | RESPONSE FACTOR | | | % DRIFT/DIFF | |
|---------------------------|------|---------------|------|-----------------|-----------|-----|--------------|---------|
| | | STD | ICV | ICAL | ICV | MIN | ICV | LIMIT |
| Benzofluoranthenes, Total | A | 10.000 | 10.1 | 1.2927770 | 1.3088720 | | 1.2 | +/-20 |
| Benzo(a)pyrene | A | 5.0000 | 5.4 | 1.1338150 | 1.2275330 | | 8.3 | +/-20 |
| Indeno(1,2,3-cd)pyrene | A | 5.0000 | 3.4 | 1.4272450 | 0.9715127 | | -31.9 | +/-20 * |
| Dibenzo(a,h)anthracene | A | 5.0000 | 3.7 | 1.2122070 | 0.8854899 | | -27.0 | +/-20 * |
| Benzo(g,h,i)perylene | A | 5.0000 | 2.6 | 1.2448130 | 0.6428289 | | -48.4 | +/-20 * |
| 1-Methylnaphthalene | A | 5.0000 | 5.1 | 0.7274101 | 0.7406894 | | 1.8 | +/-20 |
| 2-Fluorophenol | A | 7.5000 | 8.85 | 1.0846110 | 1.2794060 | | 18.0 | +/-20 |
| Phenol-d5 | A | 7.5000 | 8.60 | 1.5399100 | 1.7653480 | | 14.6 | +/-20 |
| 2-Chlorophenol-d4 | A | 7.5000 | 7.74 | 1.3093910 | 1.3508290 | | 3.2 | +/-20 |
| 1,2-Dichlorobenzene-d4 | A | 5.0000 | 4.86 | 0.9857584 | 0.9580956 | | -2.8 | +/-20 |
| Nitrobenzene-d5 | A | 5.0000 | 5.73 | 0.3912861 | 0.4480648 | | 14.5 | +/-20 |
| 2-Fluorobiphenyl | A | 5.0000 | 5.00 | 1.5568580 | 1.5568730 | | 0.0 | +/-20 |
| 2,4,6-Tribromophenol | A | 7.5000 | 7.96 | 0.1850894 | 0.2360950 | | 6.2 | +/-20 |
| p-Terphenyl-d14 | A | 5.0000 | 4.89 | 1.2319340 | 1.2036320 | | -2.3 | +/-20 |
| 1,4-Dichlorobenzene-d4 | A | 4.0000 | 4.0 | 28848.5700 | 1.0000 | | 0.0 | |
| Naphthalene-d8 | A | 4.0000 | 4.0 | 103564.8000 | 1.0000 | | 0.0 | |
| Acenaphthene-d10 | A | 4.0000 | 4.0 | 62651.1800 | 1.0000 | | 0.0 | |
| Phenanthrene-d10 | A | 4.0000 | 4.0 | 123124.0000 | 1.0000 | | 0.0 | |
| Chrysene-d12 | A | 4.0000 | 4.0 | 97764.2100 | 1.0000 | | 0.0 | |
| Di-n-Octylphthalate-d4 | A | 4.0000 | 4.0 | 118315.4000 | 1.0000 | | 0.0 | |
| Perylene-d12 | A | 4.0000 | 4.0 | 94293.2500 | 1.0000 | | 0.0 | |

* Values outside of QC limits

* Values outside of QC limits

Data File: \\target\share\chem3\nt14,1\20230228,16\NT1423022821.D

Date: 01-MAR-2023 13:39

Client ID:

Sample Info: SLB0374-ICV2

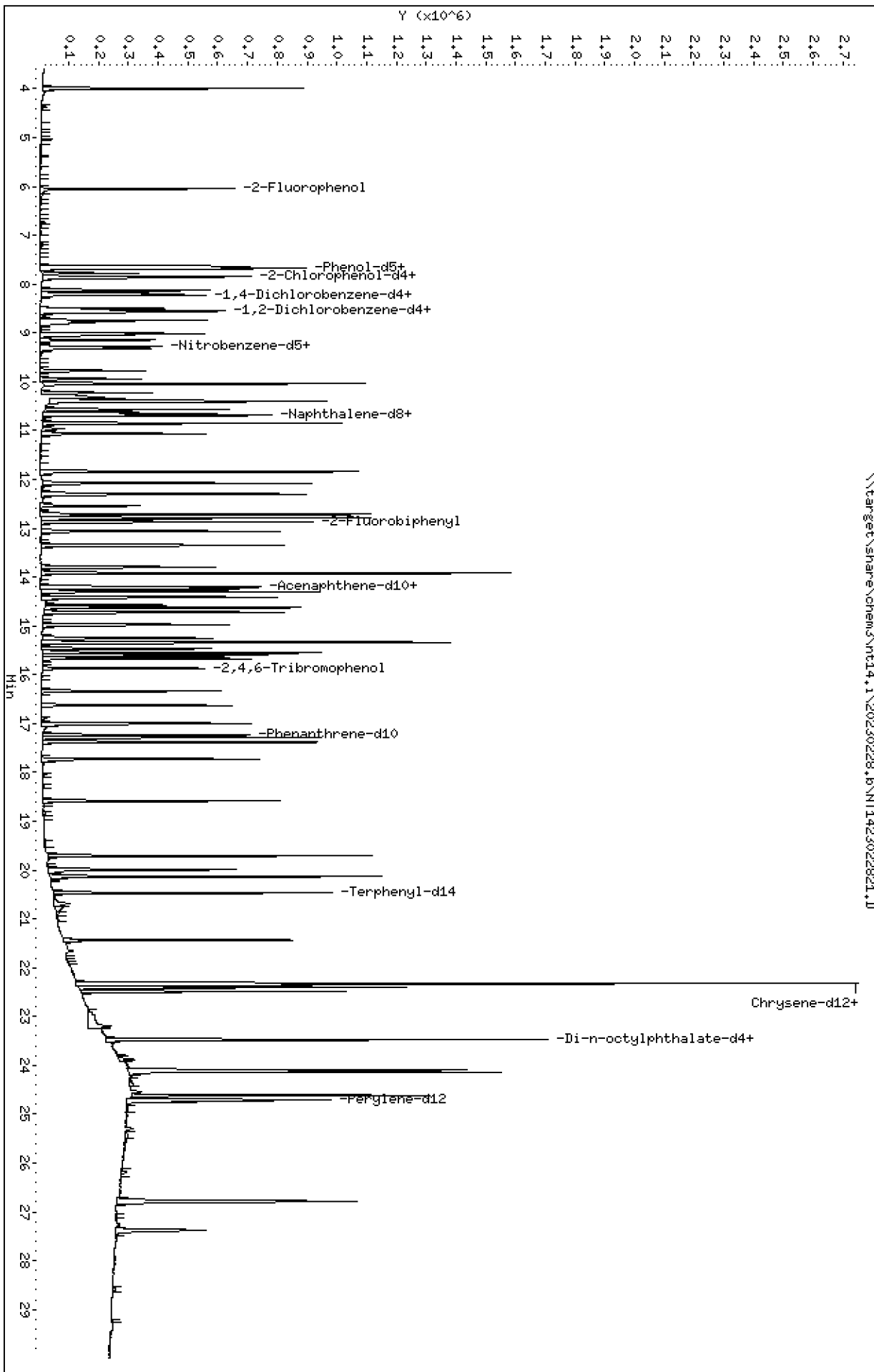
Column phase: ZB-5msi

Instrument: nt14,1

Operator: JGR

Column diameter: 0.25

\\target\share\chem3\nt14,1\20230228,16\NT1423022821.D



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230228.b\NT1423022821.D
 Lab Smp Id: SLB0374-ICV2
 Inj Date : 01-MAR-2023 13:39 MS Autotune Date: 17-MAY-2011 01:22
 Operator : JGR Inst ID: nt14.i
 Smp Info : SLB0374-ICV2
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt14.i\20230228.b\ABN.m
 Meth Date : 11-Mar-2023 09:11 van Quant Type: ISTD
 Cal Date : 28-FEB-2023 15:16 Cal File: NT1423022808.D
 Als bottle: 4 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: ICAL.sub
 Target Version: 4.14
 Processing Host: VANS-201906

| Compounds | QUANT | SIG | RT | EXP RT | REL RT | RESPONSE | AMOUNTS | |
|---------------------------------|-------|-----|--------|--------|---------|----------|---------|-----------|
| | | | | | | | CAL-AMT | ON-COL |
| | MASS | | | | | | (ug/mL) | (ug/mL) |
| \$ 1 2-Fluorophenol | 112 | | 6.050 | 6.050 | (0.739) | 301907 | 7.50000 | 8.847 |
| \$ 2 Phenol-d5 | 99 | | 7.634 | 7.634 | (0.932) | 416577 | 7.50000 | 8.598 |
| 3 Phenol | 94 | | 7.657 | 7.657 | (0.935) | 316101 | 5.00000 | 5.468 |
| \$ 5 2-Chlorophenol-d4 | 132 | | 7.850 | 7.850 | (0.958) | 318761 | 7.50000 | 7.737 |
| 4 Bis(2-Chloroethyl)ether | 93 | | 7.781 | 7.781 | (0.950) | 199918 | 5.00000 | 5.083 |
| 6 2-Chlorophenol | 128 | | 7.874 | 7.874 | (0.961) | 213159 | 5.00000 | 5.006 |
| 7 1,3-Dichlorobenzene | 146 | | 8.129 | 8.129 | (0.992) | 234376 | 5.00000 | 4.995 |
| * 8 1,4-Dichlorobenzene-d4 | 152 | | 8.191 | 8.191 | (1.000) | 125853 | 4.00000 | |
| 9 1,4-Dichlorobenzene | 146 | | 8.222 | 8.222 | (1.004) | 225574 | 5.00000 | 4.864 |
| \$ 10 1,2-Dichlorobenzene-d4 | 152 | | 8.548 | 8.548 | (1.044) | 150724 | 5.00000 | 4.860 |
| 12 1,2-Dichlorobenzene | 146 | | 8.571 | 8.571 | (1.046) | 220939 | 5.00000 | 4.968 |
| 11 Benzyl alcohol | 108 | | 8.501 | 8.501 | (1.038) | 144406 | 5.00000 | 5.633 |
| 14 2,2'-oxybis(1-Chloropropane) | 121 | | 8.789 | 8.789 | (1.073) | 60292 | 5.00000 | 5.027 (M) |
| 13 2-Methylphenol | 108 | | 8.742 | 8.742 | (1.067) | 206003 | 5.00000 | 5.641 |
| 17 Hexachloroethane | 117 | | 9.146 | 9.146 | (1.117) | 81691 | 5.00000 | 4.690 |
| 16 N-Nitroso-di-n-propylamine | 70 | | 9.053 | 9.053 | (1.105) | 159861 | 5.00000 | 5.749 |
| 15 4-Methylphenol | 108 | | 9.014 | 9.014 | (1.100) | 212432 | 5.00000 | 5.100 |
| \$ 18 Nitrobenzene-d5 | 82 | | 9.285 | 9.285 | (0.872) | 254815 | 5.00000 | 5.726 |
| 19 Nitrobenzene | 77 | | 9.316 | 9.316 | (0.875) | 241510 | 5.00000 | 5.647 |
| 20 Isophorone | 82 | | 9.774 | 9.774 | (0.918) | 349733 | 5.00000 | 5.327 |
| 21 2-Nitrophenol | 139 | | 9.945 | 9.945 | (0.934) | 132411 | 5.00000 | 5.935 |
| 22 2,4-Dimethylphenol | 107 | | 10.038 | 10.038 | (0.943) | 415650 | 10.0000 | 10.66 |
| 23 Bis(2-Chloroethoxy)methane | 93 | | 10.224 | 10.224 | (0.960) | 222878 | 5.00000 | 5.184 |
| 24 Benzoic acid | 105 | | 10.364 | 10.364 | (0.973) | 434685 | 20.0000 | 28.13 |
| 25 2,4-Dichlorophenol | 162 | | 10.402 | 10.402 | (0.977) | 291369 | 10.0000 | 7.650 |
| 26 1,2,4-Trichlorobenzene | 180 | | 10.572 | 10.572 | (0.993) | 210859 | 5.00000 | 4.785 |
| * 27 Naphthalene-d8 | 136 | | 10.649 | 10.649 | (1.000) | 454961 | 4.00000 | |
| 28 Naphthalene | 128 | | 10.688 | 10.688 | (1.004) | 608661 | 5.00000 | 5.015 |
| 29 4-Chloroaniline | 127 | | 10.850 | 10.850 | (1.019) | 554116 | 10.0000 | 10.68 |
| 30 Hexachlorobutadiene | 225 | | 11.066 | 11.066 | (1.039) | 143500 | 5.00000 | 5.337 |
| 31 4-Chloro-3-methylphenol | 107 | | 11.840 | 11.840 | (1.112) | 394147 | 10.0000 | 11.23 |
| 32 2-Methylnaphthalene | 142 | | 12.080 | 12.080 | (1.134) | 462479 | 5.00000 | 5.146 |
| 33 Hexachlorocyclopentadiene | 237 | | 12.545 | 12.545 | (0.881) | 96281 | 10.0000 | 3.343 |

| Compounds | QUANT SIG | | | | | AMOUNTS | |
|-----------------------------------|-----------|--------|--------|---------|----------|--------------------|-------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| 34 2,4,6-Trichlorophenol | 196 | 12.715 | 12.715 | (0.893) | 296575 | 10.0000 | 11.09 |
| 35 2,4,5-Trichlorophenol | 196 | 12.792 | 12.792 | (0.899) | 326988 | 10.0000 | 11.31 |
| § 36 2-Fluorobiphenyl | 172 | 12.877 | 12.877 | (0.905) | 532799 | 5.00000 | 5.000 |
| 37 2-Chloronaphthalene | 162 | 13.063 | 13.063 | (0.918) | 437711 | 5.00000 | 5.124 |
| 38 2-Nitroaniline | 65 | 13.349 | 13.349 | (0.938) | 268583 | 10.0000 | 12.06 |
| 39 Dimethylphthalate | 163 | 13.798 | 13.798 | (0.970) | 461935 | 5.00000 | 5.364 |
| 40 Acenaphthylene | 152 | 13.922 | 13.922 | (0.978) | 661364 | 5.00000 | 5.276 |
| 41 2,6-Dinitrotoluene | 165 | 13.922 | 13.922 | (0.978) | 214763 | 10.0000 | 10.64 |
| * 42 Acenaphthene-d10 | 164 | 14.232 | 14.232 | (1.000) | 273779 | 4.00000 | |
| 43 3-Nitroaniline | 138 | 14.201 | 14.201 | (0.998) | 227217 | 10.0000 | 10.99 |
| 44 Acenaphthene | 153 | 14.301 | 14.301 | (1.005) | 401197 | 5.00000 | 4.999 |
| 45 2,4-Dinitrophenol | 184 | 14.417 | 14.417 | (1.013) | 260550 | 20.0000 | 19.53 |
| 46 Dibenzofuran | 168 | 14.626 | 14.626 | (1.028) | 640107 | 5.00000 | 5.013 |
| 47 4-Nitrophenol | 109 | 14.579 | 14.579 | (1.024) | 103681 | 10.0000 | 9.854 |
| 48 2,4-Dinitrotoluene | 165 | 14.726 | 14.726 | (1.035) | 304855 | 10.0000 | 10.49 |
| 50 Diethylphthalate | 149 | 15.252 | 15.252 | (1.072) | 439979 | 5.00000 | 5.464 |
| 49 Fluorene | 166 | 15.330 | 15.330 | (1.077) | 537093 | 5.00000 | 4.992 |
| 51 4-Chlorophenyl-phenylether | 204 | 15.345 | 15.345 | (1.078) | 268766 | 5.00000 | 4.695 |
| 52 4-Nitroaniline | 138 | 15.469 | 15.469 | (1.087) | 216815 | 10.0000 | 10.58 |
| 53 4,6-Dinitro-2-methylphenol | 198 | 15.553 | 15.553 | (0.902) | 343204 | 20.0000 | 19.63 |
| 54 N-Nitrosodiphenylamine | 169 | 15.607 | 15.607 | (0.905) | 339883 | 5.00000 | 5.197 |
| § 55 2,4,6-Tribromophenol | 330 | 15.870 | 15.870 | (1.115) | 121196 | 7.50000 | 7.963 |
| 56 4-Bromophenyl-phenylether | 248 | 16.340 | 16.340 | (0.948) | 148201 | 5.00000 | 5.155 |
| 57 Hexachlorobenzene | 284 | 16.626 | 16.626 | (0.965) | 159462 | 5.00000 | 5.045 |
| 58 Pentachlorophenol | 266 | 17.005 | 17.005 | (0.987) | 176678 | 10.0000 | 11.27 |
| * 59 Phenanthrene-d10 | 188 | 17.237 | 17.237 | (1.000) | 520384 | 4.00000 | |
| 60 Phenanthrene | 178 | 17.291 | 17.291 | (1.003) | 679807 | 5.00000 | 4.911 |
| 61 Anthracene | 178 | 17.384 | 17.384 | (1.009) | 701329 | 5.00000 | 5.359 |
| 62 Carbazole | 167 | 17.732 | 17.732 | (1.029) | 598678 | 5.00000 | 5.219 |
| 63 Di-n-butylphthalate | 149 | 18.583 | 18.583 | (1.078) | 788947 | 5.00000 | 5.433 |
| 64 Fluoranthene | 202 | 19.705 | 19.705 | (0.881) | 775114 | 5.00000 | 5.118 |
| 65 Pyrene | 202 | 20.139 | 20.139 | (0.901) | 783876 | 5.00000 | 4.909 |
| § 66 Terphenyl-d14 | 244 | 20.471 | 20.471 | (0.916) | 600587 | 5.00000 | 4.885 |
| 67 Butylbenzylphthalate | 149 | 21.439 | 21.439 | (0.959) | 311185 | 5.00000 | 5.628 |
| 68 Benzo(a)anthracene | 228 | 22.330 | 22.330 | (0.999) | 711685 | 5.00000 | 5.322 |
| * 69 Chrysene-d12 | 240 | 22.361 | 22.361 | (1.000) | 399183 | 4.00000 | |
| 70 3,3'-Dichlorobenzidine | 252 | 22.322 | 22.322 | (0.998) | 739726 | 15.0000 | 19.37 |
| 71 Chrysene | 228 | 22.407 | 22.407 | (1.002) | 648542 | 5.00000 | 5.046 |
| 72 bis(2-Ethylhexyl)phthalate | 149 | 22.492 | 22.492 | (0.958) | 440581 | 5.00000 | 4.813 |
| * 134 Di-n-octylphthalate-d4 | 153 | 23.468 | 23.468 | (1.000) | 602810 | 4.00000 | |
| 73 Di-n-octylphthalate | 149 | 23.483 | 23.483 | (1.001) | 750715 | 5.00000 | 4.730 |
| 74 Benzo(b)fluoranthene | 252 | 24.103 | 24.103 | (0.976) | 828412 | 5.00000 | 5.236 |
| 75 Benzo(k)fluoranthene | 252 | 24.134 | 24.134 | (0.977) | 835045 | 5.00000 | 4.892 |
| 76 Benzo(a)pyrene | 252 | 24.621 | 24.621 | (0.997) | 734812 | 5.00000 | 5.413 |
| * 77 Perylene-d12 | 264 | 24.707 | 24.707 | (1.000) | 478887 | 4.00000 | |
| 78 Indeno(1,2,3-cd)pyrene | 276 | 26.784 | 26.784 | (1.084) | 581556 | 5.00000 | 3.403 |
| 79 Dibenzo(a,h)anthracene | 278 | 26.792 | 26.792 | (1.084) | 530062 | 5.00000 | 3.652 |
| 80 Benzo(g,h,i)perylene | 276 | 27.375 | 27.375 | (1.108) | 384803 | 5.00000 | 2.582 |
| 90 N-Nitrosodimethylamine | 74 | 3.988 | 3.988 | (0.487) | 246464 | 10.0000 | 10.37 |
| 91 Aniline | 93 | 7.681 | 7.681 | (0.938) | 598886 | 10.0000 | 10.66 |
| 93 Benzidine | 184 | 19.992 | 19.992 | (0.894) | 461282 | 10.0000 | 7.299 |
| 103 Pyridine | 79 | 3.996 | 3.996 | (0.488) | 389427 | 5.00000 | 5.368 |
| 105 1-methylnaphthalene | 142 | 12.297 | 12.297 | (1.155) | 421231 | 5.00000 | 5.091 |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77 | 15.669 | 15.669 | (1.101) | 502180 | 5.00000 | 5.432 |

| Compounds | QUANT SIG | | | | | | AMOUNTS | |
|-------------------------------|-----------|--|--------|--------|---------|----------|--------------------|-------------------|
| | MASS | | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| 187 Total Benzofluoranthenes | 252 | | 24.134 | 24.134 | (0.977) | 1567005 | 10.0000 | 10.12 |
| 120 2,3,4,6-Tetrachlorophenol | 232 | | 14.981 | 14.981 | (1.053) | 165046 | 5.00000 | 5.217 |

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 01-MAR-2023
 Lab File ID: NT1423022821.D Calibration Time: 08:50
 Lab Smp Id: SLB0374-ICV2
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: JGR
 Method File: \\target\share\chem3\nt14.i\20230228.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 125853 | 62927 | 251706 | 125853 | 0.00 |
| 27 Naphthalene-d8 | 454961 | 227481 | 909922 | 454961 | 0.00 |
| 42 Acenaphthene-d10 | 273779 | 136890 | 547558 | 273779 | 0.00 |
| 59 Phenanthrene-d10 | 520384 | 260192 | 1040768 | 520384 | 0.00 |
| 69 Chrysene-d12 | 399183 | 199592 | 798366 | 399183 | 0.00 |
| 134 Di-n-octylphthala | 602810 | 301405 | 1205620 | 602810 | 0.00 |
| 77 Perylene-d12 | 478887 | 239444 | 957774 | 478887 | 0.00 |

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

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

REVIEW SUMMARY FOR FILE - NT1423022821.D

Lab ID: SLB0374-ICV2

nt14.i, ABN.m, 01-MAR-2023 13:39

RT CO-ELUTION COMPOUNDS

13.923 Acenaphthylene and 2,6-Dinitrotoluene

Quant Method: ICAL

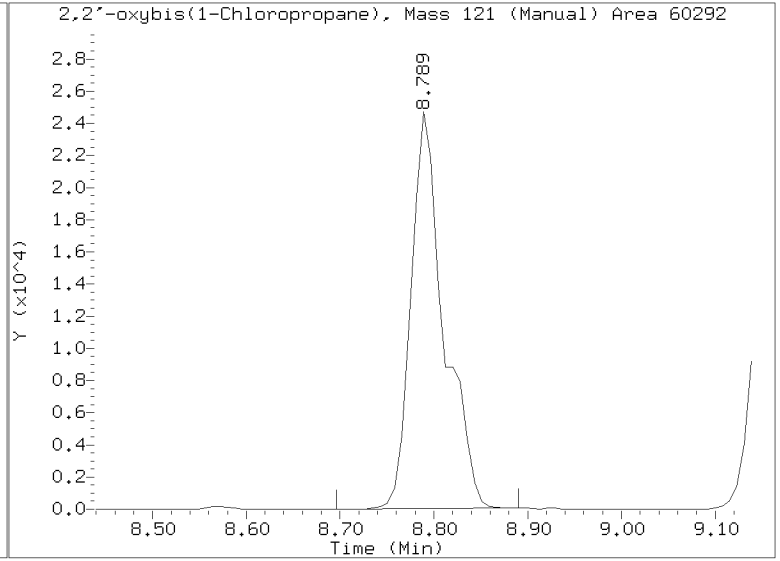
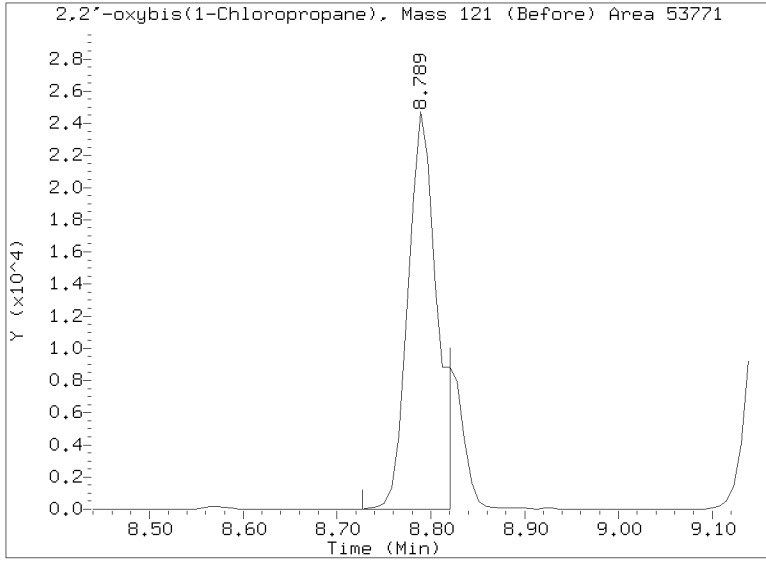
No RRT check. Ccal file.

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

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230228.b/NT1423022821.D
Injection Date: 01-MAR-2023 13:39
Lab ID:SLB0374-ICV2 Client ID:
Report Date: 03/11/2023 09:11



Instrument: nt14.i Date: 01-MAR-2023 Method: ABN.m

INITIAL CAL: 28-FEB-2023

| Compound | %RSD or R ² |
|--------------|------------------------|
| Benzoic acid | 53.2 |

ICV CAL: NT1423022821.D 01-MAR-2023 13:39

| Compound | %D |
|---------------------------|--------|
| 2,4-Dichlorophenol | -23.5 |
| Benzoic acid | 40.67 |
| Hexachlorocyclopentadiene | -66.6 |
| 2-Nitroaniline | 20.56 |
| 3,3'-Dichlorobenzidine | 29.14 |
| Indeno(1,2,3-cd)pyrene | -31.93 |
| Dibenzo(a,h)anthracene | -26.95 |
| Benzo(g,h,i)perylene | -48.36 |
| Benzidine | -27.0 |



INITIAL CALIBRATION CHECK
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: NT14

Calibration: GC00033

Lab File ID: NT1423022836.D

Calibration Date: 02/28/2023

Sequence: SLB0374

Injection Date: 03/01/23

Lab Sample ID: SLB0374-ICV3

Injection Time: 22:40

Sequence Name: ABN 5

| COMPOUND | TYPE | CONC. (ug/mL) | | RESPONSE FACTOR | | | % DRIFT/DIFF | |
|------------------------------|------|---------------|------|-----------------|-----------|-----|--------------|---------|
| | | STD | ICV | ICAL | ICV | MIN | ICV | LIMIT |
| Phenol | A | 5.0000 | 5.6 | 1.8373500 | 2.0453990 | | 11.3 | +/-20 |
| bis(2-chloroethyl) ether | A | 5.0000 | 5.1 | 1.5312550 | 1.2830170 | | 2.7 | +/-20 |
| 2-Chlorophenol | A | 5.0000 | 5.5 | 1.3533690 | 1.4871400 | | 9.9 | +/-20 |
| 1,3-Dichlorobenzene | A | 5.0000 | 4.9 | 1.4914740 | 1.4708900 | | -1.4 | +/-20 |
| 1,4-Dichlorobenzene | A | 5.0000 | 4.8 | 1.4740600 | 1.4080550 | | -4.5 | +/-20 |
| 1,2-Dichlorobenzene | A | 5.0000 | 4.9 | 1.4134490 | 1.3965360 | | -1.2 | +/-20 |
| Benzyl Alcohol | A | 5.0000 | 5.6 | 0.6439892 | 0.9065280 | | 11.3 | +/-20 |
| 2,2'-Oxybis(1-chloropropane) | A | 5.0000 | 5.1 | 0.3811859 | 0.3883208 | | 1.9 | +/-20 |
| 2-Methylphenol | A | 5.0000 | 5.6 | 1.1607310 | 1.2996830 | | 12.0 | +/-20 |
| Hexachloroethane | A | 5.0000 | 4.6 | 0.5535732 | 0.5051617 | | -8.7 | +/-20 |
| N-Nitroso-di-n-Propylamine | A | 5.0000 | 5.9 | 0.8837751 | 1.0424830 | | 18.0 | +/-20 |
| 4-Methylphenol | A | 5.0000 | 5.2 | 1.1353050 | 1.3677540 | | 3.3 | +/-20 |
| Nitrobenzene | A | 5.0000 | 5.7 | 0.3760061 | 0.4323360 | | 15.0 | +/-20 |
| Isophorone | A | 5.0000 | 5.4 | 0.4996273 | 0.6238805 | | 8.1 | +/-20 |
| 2-Nitrophenol | A | 5.0000 | 5.9 | 0.1467597 | 0.2330781 | | 18.8 | +/-20 |
| 2,4-Dimethylphenol | A | 10.000 | 10.7 | 0.3427845 | 0.3658279 | | 6.7 | +/-20 |
| Bis(2-Chloroethoxy)methane | A | 5.0000 | 5.2 | 0.3780235 | 0.3961923 | | 4.8 | +/-20 |
| 2,4-Dichlorophenol | A | 10.000 | 8.7 | 0.2946235 | 0.2912235 | | -12.6 | +/-20 |
| 1,2,4-Trichlorobenzene | A | 5.0000 | 4.7 | 0.3874001 | 0.3636745 | | -6.1 | +/-20 |
| Naphthalene | A | 5.0000 | 5.0 | 1.0669580 | 1.0681350 | | 0.1 | +/-20 |
| Benzoic acid | A | 20.000 | 32.1 | 0.1358415 | 0.2181378 | | 60.6 | +/-20 * |
| 4-Chloroaniline | A | 10.000 | 10.6 | 0.4563565 | 0.4827016 | | 5.8 | +/-20 |
| Hexachlorobutadiene | A | 5.0000 | 5.1 | 0.2363916 | 0.2411686 | | 2.0 | +/-20 |
| 4-Chloro-3-Methylphenol | A | 10.000 | 11.0 | 0.3085482 | 0.3394116 | | 10.0 | +/-20 |
| 2-Methylnaphthalene | A | 5.0000 | 5.1 | 0.7901196 | 0.7994268 | | 1.2 | +/-20 |
| Hexachlorocyclopentadiene | A | 10.000 | 2.3 | 0.3443795 | 0.0962930 | | -77.1 | +/-20 * |
| 2,4,6-Trichlorophenol | A | 10.000 | 10.9 | 0.3907367 | 0.4273571 | | 9.4 | +/-20 |
| 2,4,5-Trichlorophenol | A | 10.000 | 11.0 | 0.4224702 | 0.4634826 | | 9.7 | +/-20 |
| 2-Chloronaphthalene | A | 5.0000 | 5.1 | 1.2480280 | 1.2706380 | | 1.8 | +/-20 |
| 2-Nitroaniline | A | 10.000 | 12.4 | 0.3254949 | 0.4022714 | | 23.6 | +/-20 * |

* Values outside of QC limits



INITIAL CALIBRATION CHECK
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: NT14

Calibration: GC00033

Lab File ID: NT1423022836.D

Calibration Date: 02/28/2023

Sequence: SLB0374

Injection Date: 03/01/23

Lab Sample ID: SLB0374-ICV3

Injection Time: 22:40

Sequence Name: ABN 5

| COMPOUND | TYPE | CONC. (ug/mL) | | RESPONSE FACTOR | | | % DRIFT/DIFF | |
|----------------------------|------|---------------|------|-----------------|-----------|-----|--------------|---------|
| | | STD | ICV | ICAL | ICV | MIN | ICV | LIMIT |
| Acenaphthylene | A | 5.0000 | 5.3 | 1.8312950 | 1.9384670 | | 5.9 | +/-20 |
| Dimethylphthalate | A | 5.0000 | 5.3 | 1.2581570 | 1.3404150 | | 6.5 | +/-20 |
| 2,6-Dinitrotoluene | A | 10.000 | 10.7 | 0.2948315 | 0.3148102 | | 6.8 | +/-20 |
| Acenaphthene | A | 5.0000 | 5.0 | 1.1724930 | 1.1620680 | | -0.9 | +/-20 |
| 3-Nitroaniline | A | 10.000 | 10.9 | 0.3021810 | 0.3287651 | | 8.8 | +/-20 |
| 2,4-Dinitrophenol | A | 20.000 | 17.9 | 0.1437811 | 0.1732835 | | -10.8 | +/-20 |
| Dibenzofuran | A | 5.0000 | 5.0 | 1.8656210 | 1.8473590 | | -1.0 | +/-20 |
| 4-Nitrophenol | A | 10.000 | 9.3 | 0.1323756 | 0.1434420 | | -6.5 | +/-20 |
| 2,4-Dinitrotoluene | A | 10.000 | 10.3 | 0.4244424 | 0.4356182 | | 2.6 | +/-20 |
| Fluorene | A | 5.0000 | 4.9 | 1.5719010 | 1.5505630 | | -1.4 | +/-20 |
| 4-Chlorophenylphenyl ether | A | 5.0000 | 4.6 | 0.8363665 | 0.7712414 | | -7.8 | +/-20 |
| Diethyl phthalate | A | 5.0000 | 5.5 | 1.1765440 | 1.2853260 | | 9.2 | +/-20 |
| 4-Nitroaniline | A | 10.000 | 9.8 | 0.2995450 | 0.2920884 | | -2.5 | +/-20 |
| 4,6-Dinitro-2-methylphenol | A | 20.000 | 18.9 | 0.0975169 | 0.1268325 | | -5.6 | +/-20 |
| N-Nitrosodiphenylamine | A | 5.0000 | 5.3 | 0.5026629 | 0.5309894 | | 5.6 | +/-20 |
| 4-Bromophenyl phenyl ether | A | 5.0000 | 5.2 | 0.2209900 | 0.2320082 | | 5.0 | +/-20 |
| Hexachlorobenzene | A | 5.0000 | 5.1 | 0.2429692 | 0.2458611 | | 1.2 | +/-20 |
| Pentachlorophenol | A | 10.000 | 11.0 | 0.0938263 | 0.1318820 | | 9.6 | +/-20 |
| Phenanthrene | A | 5.0000 | 5.0 | 1.0640870 | 1.0692410 | | 0.5 | +/-20 |
| Anthracene | A | 5.0000 | 5.4 | 1.0059580 | 1.0904850 | | 8.4 | +/-20 |
| Carbazole | A | 5.0000 | 5.0 | 0.8816605 | 0.8890222 | | 0.8 | +/-20 |
| Di-n-Butylphthalate | A | 5.0000 | 5.6 | 0.9469101 | 1.2457840 | | 11.7 | +/-20 |
| Fluoranthene | A | 5.0000 | 4.7 | 1.5175930 | 1.4227 | | -6.3 | +/-20 |
| Pyrene | A | 5.0000 | 4.6 | 1.6000330 | 1.4570910 | | -8.9 | +/-20 |
| Butylbenzylphthalate | A | 5.0000 | 5.3 | 0.4562763 | 0.5926017 | | 6.8 | +/-20 |
| Benzo(a)anthracene | A | 5.0000 | 5.3 | 1.3399020 | 1.4265670 | | 6.5 | +/-20 |
| 3,3'-Dichlorobenzidine | A | 15.000 | 19.4 | 0.3826468 | 0.4935171 | | 29.0 | +/-20 * |
| Chrysene | A | 5.0000 | 5.0 | 1.2879040 | 1.2829050 | | -0.4 | +/-20 |
| bis(2-Ethylhexyl)phthalate | A | 5.0000 | 4.8 | 0.5161185 | 0.5828706 | | -4.0 | +/-20 |
| Di-n-Octylphthalate | A | 5.0000 | 4.7 | 1.0531830 | 0.9949746 | | -5.5 | +/-20 |

* Values outside of QC limits



INITIAL CALIBRATION CHECK
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: NT14

Calibration: GC00033

Lab File ID: NT1423022836.D

Calibration Date: 02/28/2023

Sequence: SLB0374

Injection Date: 03/01/23

Lab Sample ID: SLB0374-ICV3

Injection Time: 22:40

Sequence Name: ABN 5

| COMPOUND | TYPE | CONC. (ug/mL) | | RESPONSE FACTOR | | | % DRIFT/DIFF | |
|---------------------------|------|---------------|------|-----------------|-----------|-----|--------------|---------|
| | | STD | ICV | ICAL | ICV | MIN | ICV | LIMIT |
| Benzofluoranthenes, Total | A | 10.000 | 11.5 | 1.2927770 | 1.4843120 | | 14.8 | +/-20 |
| Benzo(a)pyrene | A | 5.0000 | 5.5 | 1.1338150 | 1.2446920 | | 9.8 | +/-20 |
| Indeno(1,2,3-cd)pyrene | A | 5.0000 | 2.4 | 1.4272450 | 0.6921868 | | -51.5 | +/-20 * |
| Dibenzo(a,h)anthracene | A | 5.0000 | 2.7 | 1.2122070 | 0.6448422 | | -46.8 | +/-20 * |
| Benzo(g,h,i)perylene | A | 5.0000 | 1.8 | 1.2448130 | 0.4422862 | | -64.5 | +/-20 * |
| 1-Methylnaphthalene | A | 5.0000 | 5.0 | 0.7274101 | 0.7345758 | | 1.0 | +/-20 |
| 2-Fluorophenol | A | 7.5000 | 9.11 | 1.0846110 | 1.3168920 | | 21.4 | +/-20 * |
| Phenol-d5 | A | 7.5000 | 8.72 | 1.5399100 | 1.7897210 | | 16.2 | +/-20 |
| 2-Chlorophenol-d4 | A | 7.5000 | 7.74 | 1.3093910 | 1.3519900 | | 3.3 | +/-20 |
| 1,2-Dichlorobenzene-d4 | A | 5.0000 | 4.84 | 0.9857584 | 0.9543060 | | -3.2 | +/-20 |
| Nitrobenzene-d5 | A | 5.0000 | 5.85 | 0.3912861 | 0.4577578 | | 17.0 | +/-20 |
| 2-Fluorobiphenyl | A | 5.0000 | 4.98 | 1.5568580 | 1.5513240 | | -0.4 | +/-20 |
| 2,4,6-Tribromophenol | A | 7.5000 | 7.56 | 0.1850894 | 0.2237195 | | 0.8 | +/-20 |
| p-Terphenyl-d14 | A | 5.0000 | 4.36 | 1.2319340 | 1.0740590 | | -12.8 | +/-20 |
| 1,4-Dichlorobenzene-d4 | A | 4.0000 | 4.0 | 28848.5700 | 1.0000 | | 0.0 | |
| Naphthalene-d8 | A | 4.0000 | 4.0 | 103564.8000 | 1.0000 | | 0.0 | |
| Acenaphthene-d10 | A | 4.0000 | 4.0 | 62651.1800 | 1.0000 | | 0.0 | |
| Phenanthrene-d10 | A | 4.0000 | 4.0 | 123124.0000 | 1.0000 | | 0.0 | |
| Chrysene-d12 | A | 4.0000 | 4.0 | 97764.2100 | 1.0000 | | 0.0 | |
| Di-n-Octylphthalate-d4 | A | 4.0000 | 4.0 | 118315.4000 | 1.0000 | | 0.0 | |
| Perylene-d12 | A | 4.0000 | 4.0 | 94293.2500 | 1.0000 | | 0.0 | |

* Values outside of QC limits

* Values outside of QC limits

Data File: \\target\share\chem3\nt14,1\20230228,16\NT1423022836.D

Date: 01-MAR-2023 22:40

Client ID:

Sample Info: SLB0374-ICV3

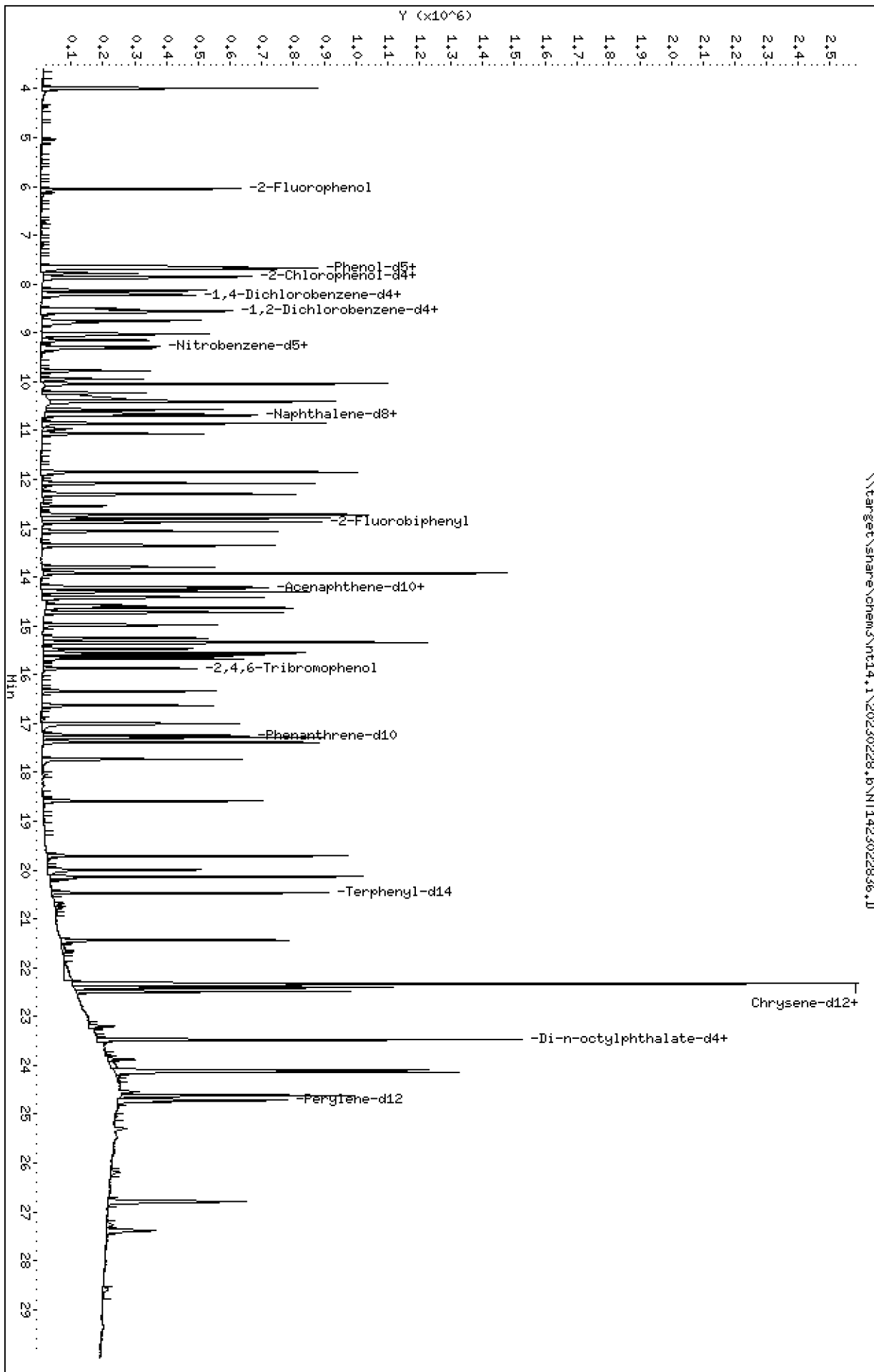
Column phase: ZB-5msi

Instrument: nt14,1

Operator: JGR

Column diameter: 0.25

\\target\share\chem3\nt14,1\20230228,16\NT1423022836.D



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230228.b\NT1423022836.D
 Lab Smp Id: SLB0374-ICV3
 Inj Date : 01-MAR-2023 22:40 MS Autotune Date: 17-MAY-2011 01:22
 Operator : JGR Inst ID: nt14.i
 Smp Info : SLB0374-ICV3
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt14.i\20230228.b\ABN.m
 Meth Date : 14-Mar-2023 08:52 van Quant Type: ISTD
 Cal Date : 28-FEB-2023 15:16 Cal File: NT1423022808.D
 Als bottle: 4 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: ICAL.sub
 Target Version: 4.14
 Processing Host: VANS-201906

| Compounds | QUANT | SIG | RT | EXP RT | REL RT | RESPONSE | AMOUNTS | |
|---------------------------------|-------|-----|--------|--------|---------|----------|---------|---------|
| | | | | | | | CAL-AMT | ON-COL |
| | MASS | | | | | | (ug/mL) | (ug/mL) |
| \$ 1 2-Fluorophenol | 112 | | 6.050 | 6.050 | (0.738) | 284819 | 7.50000 | 9.106 |
| \$ 2 Phenol-d5 | 99 | | 7.642 | 7.642 | (0.932) | 387083 | 7.50000 | 8.717 |
| 3 Phenol | 94 | | 7.665 | 7.665 | (0.935) | 294921 | 5.00000 | 5.566 |
| \$ 5 2-Chlorophenol-d4 | 132 | | 7.850 | 7.850 | (0.958) | 292410 | 7.50000 | 7.744 |
| 4 Bis(2-Chloroethyl)ether | 93 | | 7.781 | 7.781 | (0.949) | 184995 | 5.00000 | 5.134 |
| 6 2-Chlorophenol | 128 | | 7.881 | 7.881 | (0.961) | 214427 | 5.00000 | 5.494 |
| 7 1,3-Dichlorobenzene | 146 | | 8.129 | 8.129 | (0.991) | 212084 | 5.00000 | 4.931 |
| * 8 1,4-Dichlorobenzene-d4 | 152 | | 8.199 | 8.199 | (1.000) | 115350 | 4.00000 | |
| 9 1,4-Dichlorobenzene | 146 | | 8.230 | 8.230 | (1.004) | 203024 | 5.00000 | 4.776 |
| \$ 10 1,2-Dichlorobenzene-d4 | 152 | | 8.548 | 8.548 | (1.043) | 137599 | 5.00000 | 4.840 |
| 12 1,2-Dichlorobenzene | 146 | | 8.571 | 8.571 | (1.045) | 201363 | 5.00000 | 4.940 |
| 11 Benzyl alcohol | 108 | | 8.509 | 8.509 | (1.038) | 130710 | 5.00000 | 5.564 |
| 14 2,2'-oxybis(1-Chloropropane) | 121 | | 8.789 | 8.789 | (1.072) | 55991 | 5.00000 | 5.094 |
| 13 2-Methylphenol | 108 | | 8.750 | 8.750 | (1.067) | 187398 | 5.00000 | 5.599 |
| 17 Hexachloroethane | 117 | | 9.154 | 9.154 | (1.116) | 72838 | 5.00000 | 4.563 |
| 16 N-Nitroso-di-n-propylamine | 70 | | 9.053 | 9.053 | (1.104) | 150313 | 5.00000 | 5.898 |
| 15 4-Methylphenol | 108 | | 9.022 | 9.022 | (1.100) | 197213 | 5.00000 | 5.167 |
| \$ 18 Nitrobenzene-d5 | 82 | | 9.285 | 9.285 | (0.872) | 237974 | 5.00000 | 5.849 |
| 19 Nitrobenzene | 77 | | 9.324 | 9.324 | (0.876) | 224758 | 5.00000 | 5.749 |
| 20 Isophorone | 82 | | 9.774 | 9.774 | (0.918) | 324336 | 5.00000 | 5.405 |
| 21 2-Nitrophenol | 139 | | 9.945 | 9.945 | (0.934) | 121170 | 5.00000 | 5.941 |
| 22 2,4-Dimethylphenol | 107 | | 10.046 | 10.046 | (0.943) | 380365 | 10.0000 | 10.67 |
| 23 Bis(2-Chloroethoxy)methane | 93 | | 10.224 | 10.224 | (0.960) | 205968 | 5.00000 | 5.240 |
| 24 Benzoic acid | 105 | | 10.364 | 10.364 | (0.973) | 453612 | 20.0000 | 32.12 |
| 25 2,4-Dichlorophenol | 162 | | 10.410 | 10.410 | (0.978) | 302796 | 10.0000 | 8.742 |
| 26 1,2,4-Trichlorobenzene | 180 | | 10.572 | 10.572 | (0.993) | 189063 | 5.00000 | 4.694 |
| * 27 Naphthalene-d8 | 136 | | 10.649 | 10.649 | (1.000) | 415895 | 4.00000 | |
| 28 Naphthalene | 128 | | 10.688 | 10.688 | (1.004) | 555290 | 5.00000 | 5.006 |
| 29 4-Chloroaniline | 127 | | 10.850 | 10.850 | (1.019) | 501883 | 10.0000 | 10.58 |
| 30 Hexachlorobutadiene | 225 | | 11.066 | 11.066 | (1.039) | 125376 | 5.00000 | 5.101 |
| 31 4-Chloro-3-methylphenol | 107 | | 11.848 | 11.848 | (1.113) | 352899 | 10.0000 | 11.00 |
| 32 2-Methylnaphthalene | 142 | | 12.080 | 12.080 | (1.134) | 415597 | 5.00000 | 5.059 |
| 33 Hexachlorocyclopentadiene | 237 | | 12.545 | 12.545 | (0.881) | 59225 | 10.0000 | 2.291 |

| Compounds | QUANT SIG | | | | | AMOUNTS | |
|-----------------------------------|-----------|--------|--------|---------|----------|--------------------|-------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| 34 2,4,6-Trichlorophenol | 196 | 12.723 | 12.723 | (0.893) | 262846 | 10.0000 | 10.94 |
| 35 2,4,5-Trichlorophenol | 196 | 12.800 | 12.800 | (0.899) | 285065 | 10.0000 | 10.97 |
| § 36 2-Fluorobiphenyl | 172 | 12.877 | 12.877 | (0.904) | 477071 | 5.00000 | 4.982 |
| 37 2-Chloronaphthalene | 162 | 13.063 | 13.063 | (0.917) | 390753 | 5.00000 | 5.091 |
| 38 2-Nitroaniline | 65 | 13.349 | 13.349 | (0.938) | 247417 | 10.0000 | 12.36 |
| 39 Dimethylphthalate | 163 | 13.798 | 13.798 | (0.969) | 412211 | 5.00000 | 5.327 |
| 40 Acenaphthylene | 152 | 13.922 | 13.922 | (0.978) | 596127 | 5.00000 | 5.293 |
| 41 2,6-Dinitrotoluene | 165 | 13.930 | 13.930 | (0.978) | 193624 | 10.0000 | 10.68 |
| * 42 Acenaphthene-d10 | 164 | 14.239 | 14.239 | (1.000) | 246020 | 4.00000 | |
| 43 3-Nitroaniline | 138 | 14.208 | 14.208 | (0.998) | 202207 | 10.0000 | 10.88 |
| 44 Acenaphthene | 153 | 14.301 | 14.301 | (1.004) | 357365 | 5.00000 | 4.956 |
| 45 2,4-Dinitrophenol | 184 | 14.417 | 14.417 | (1.012) | 213156 | 20.0000 | 17.85 |
| 46 Dibenzofuran | 168 | 14.634 | 14.634 | (1.028) | 568109 | 5.00000 | 4.951 |
| 47 4-Nitrophenol | 109 | 14.587 | 14.587 | (1.024) | 88224 | 10.0000 | 9.346 |
| 48 2,4-Dinitrotoluene | 165 | 14.726 | 14.726 | (1.034) | 267927 | 10.0000 | 10.26 |
| 50 Diethylphthalate | 149 | 15.252 | 15.252 | (1.071) | 395270 | 5.00000 | 5.462 |
| 49 Fluorene | 166 | 15.337 | 15.337 | (1.077) | 476837 | 5.00000 | 4.932 |
| 51 4-Chlorophenyl-phenylether | 204 | 15.345 | 15.345 | (1.078) | 237176 | 5.00000 | 4.611 |
| 52 4-Nitroaniline | 138 | 15.469 | 15.469 | (1.086) | 179649 | 10.0000 | 9.751 |
| 53 4,6-Dinitro-2-methylphenol | 198 | 15.553 | 15.553 | (0.902) | 284484 | 20.0000 | 18.88 |
| 54 N-Nitrosodiphenylamine | 169 | 15.607 | 15.607 | (0.905) | 297751 | 5.00000 | 5.282 |
| § 55 2,4,6-Tribromophenol | 330 | 15.870 | 15.870 | (1.114) | 103199 | 7.50000 | 7.560 |
| 56 4-Bromophenyl-phenylether | 248 | 16.340 | 16.340 | (0.948) | 130098 | 5.00000 | 5.249 |
| 57 Hexachlorobenzene | 284 | 16.634 | 16.634 | (0.965) | 137866 | 5.00000 | 5.060 |
| 58 Pentachlorophenol | 266 | 17.005 | 17.005 | (0.986) | 147905 | 10.0000 | 10.96 |
| * 59 Phenanthrene-d10 | 188 | 17.245 | 17.245 | (1.000) | 448598 | 4.00000 | |
| 60 Phenanthrene | 178 | 17.291 | 17.291 | (1.003) | 599574 | 5.00000 | 5.024 |
| 61 Anthracene | 178 | 17.384 | 17.384 | (1.008) | 611487 | 5.00000 | 5.420 |
| 62 Carbazole | 167 | 17.732 | 17.732 | (1.028) | 498517 | 5.00000 | 5.042 |
| 63 Di-n-butylphthalate | 149 | 18.591 | 18.591 | (1.078) | 698570 | 5.00000 | 5.584 |
| 64 Fluoranthene | 202 | 19.713 | 19.713 | (0.881) | 665073 | 5.00000 | 4.687 |
| 65 Pyrene | 202 | 20.139 | 20.139 | (0.900) | 681150 | 5.00000 | 4.553 |
| § 66 Terphenyl-d14 | 244 | 20.471 | 20.471 | (0.915) | 502093 | 5.00000 | 4.359 |
| 67 Butylbenzylphthalate | 149 | 21.439 | 21.439 | (0.958) | 277025 | 5.00000 | 5.342 |
| 68 Benzo(a)anthracene | 228 | 22.337 | 22.337 | (0.999) | 666881 | 5.00000 | 5.323 |
| * 69 Chrysene-d12 | 240 | 22.368 | 22.368 | (1.000) | 373978 | 4.00000 | |
| 70 3,3'-Dichlorobenzidine | 252 | 22.330 | 22.330 | (0.998) | 692117 | 15.0000 | 19.35 |
| 71 Chrysene | 228 | 22.415 | 22.415 | (1.002) | 599723 | 5.00000 | 4.981 |
| 72 bis(2-Ethylhexyl)phthalate | 149 | 22.492 | 22.492 | (0.958) | 394583 | 5.00000 | 4.798 |
| * 134 Di-n-octylphthalate-d4 | 153 | 23.476 | 23.476 | (1.000) | 541572 | 4.00000 | |
| 73 Di-n-octylphthalate | 149 | 23.483 | 23.483 | (1.000) | 673563 | 5.00000 | 4.724 |
| 74 Benzo(b)fluoranthene | 252 | 24.103 | 24.103 | (0.975) | 658970 | 5.00000 | 5.574 |
| 75 Benzo(k)fluoranthene | 252 | 24.141 | 24.141 | (0.977) | 760715 | 5.00000 | 5.965 |
| 76 Benzo(a)pyrene | 252 | 24.621 | 24.621 | (0.996) | 556718 | 5.00000 | 5.489 |
| * 77 Perylene-d12 | 264 | 24.714 | 24.714 | (1.000) | 357819 | 4.00000 | |
| 78 Indeno(1,2,3-cd)pyrene | 276 | 26.784 | 26.784 | (1.084) | 309597 | 5.00000 | 2.425 |
| 79 Dibenzo(a,h)anthracene | 278 | 26.800 | 26.800 | (1.084) | 288421 | 5.00000 | 2.660 |
| 80 Benzo(g,h,i)perylene | 276 | 27.383 | 27.383 | (1.108) | 197823 | 5.00000 | 1.777 |
| 90 N-Nitrosodimethylamine | 74 | 3.988 | 3.988 | (0.486) | 236687 | 10.0000 | 10.91 |
| 91 Aniline | 93 | 7.681 | 7.681 | (0.937) | 557519 | 10.0000 | 10.84 |
| 93 Benzidine | 184 | 19.992 | 19.992 | (0.894) | 369945 | 10.0000 | 6.225 |
| 103 Pyridine | 79 | 3.988 | 3.988 | (0.486) | 377966 | 5.00000 | 5.702 |
| 105 1-methylnaphthalene | 142 | 12.297 | 12.297 | (1.155) | 381883 | 5.00000 | 5.049 |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77 | 15.669 | 15.669 | (1.100) | 462216 | 5.00000 | 5.564 |

| Compounds | QUANT SIG | | | | | | AMOUNTS | |
|-------------------------------|-----------|--|--------|--------|---------|----------|--------------------|-------------------|
| | MASS | | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| ===== | ===== | | ===== | ===== | ===== | ===== | ===== | |
| 187 Total Benzofluoranthenes | 252 | | 24.141 | 24.141 | (0.977) | 1327788 | 10.0000 | 11.48 |
| 120 2,3,4,6-Tetrachlorophenol | 232 | | 14.981 | 14.981 | (1.052) | 145547 | 5.00000 | 5.123 |

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 02-MAR-2023
 Lab File ID: NT1423022836.D Calibration Time: 05:52
 Lab Smp Id: SLB0374-ICV3
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: JGR
 Method File: \\target\share\chem3\nt14.i\20230228.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 116519 | 58260 | 233038 | 115350 | -1.00 |
| 27 Naphthalene-d8 | 429090 | 214545 | 858180 | 415895 | -3.08 |
| 42 Acenaphthene-d10 | 250637 | 125319 | 501274 | 246020 | -1.84 |
| 59 Phenanthrene-d10 | 458117 | 229059 | 916234 | 448598 | -2.08 |
| 69 Chrysene-d12 | 393468 | 196734 | 786936 | 373978 | -4.95 |
| 134 Di-n-octylphthala | 572636 | 286318 | 1145272 | 541572 | -5.42 |
| 77 Perylene-d12 | 283320 | 141660 | 566640 | 357819 | 26.30 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 8.21 | 7.71 | 8.71 | 8.20 | -0.10 |
| 27 Naphthalene-d8 | 10.67 | 10.17 | 11.17 | 10.65 | -0.15 |
| 42 Acenaphthene-d10 | 14.25 | 13.75 | 14.75 | 14.24 | -0.06 |
| 59 Phenanthrene-d10 | 17.25 | 16.75 | 17.75 | 17.25 | -0.05 |
| 69 Chrysene-d12 | 22.38 | 21.88 | 22.88 | 22.37 | -0.04 |
| 134 Di-n-octylphthala | 23.48 | 22.98 | 23.98 | 23.48 | -0.03 |
| 77 Perylene-d12 | 24.73 | 24.23 | 25.23 | 24.71 | -0.06 |

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

REVIEW SUMMARY FOR FILE - NT1423022836.D

Lab ID: SLB0374-ICV3
nt14.i, ABN.m, 01-MAR-2023 22:40

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

No RRT check. Ccal file.

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

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

Instrument: nt14.i Date: 01-MAR-2023 Method: ABN.m

INITIAL CAL: 28-FEB-2023

| Compound | %RSD or R ² |
|--------------|------------------------|
| Benzoic acid | 53.2 |

ICV CAL: NT1423022836.D 01-MAR-2023 22:40

| Compound | %D |
|---------------------------|--------|
| Benzoic acid | 60.58 |
| Hexachlorocyclopentadiene | -77.1 |
| 2-Nitroaniline | 23.59 |
| 3,3'-Dichlorobenzidine | 28.97 |
| Indeno(1,2,3-cd)pyrene | -51.50 |
| Dibenzo(a,h)anthracene | -46.80 |
| Benzo(g,h,i)perylene | -64.47 |
| Benzidine | -37.7 |
| 2-Fluorophenol | 21.42 |



INITIAL CALIBRATION CHECK
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: NT14

Calibration: GC00033

Lab File ID: NT1423022848.D

Calibration Date: 02/28/2023

Sequence: SLB0374

Injection Date: 03/02/23

Lab Sample ID: SLB0374-ICV4

Injection Time: 05:52

Sequence Name: ABN 5

| COMPOUND | TYPE | CONC. (ug/mL) | | RESPONSE FACTOR | | | % DRIFT/DIFF | |
|------------------------------|------|---------------|------|-----------------|-----------|-----|--------------|---------|
| | | STD | ICV | ICAL | ICV | MIN | ICV | LIMIT |
| Phenol | A | 5.0000 | 5.7 | 1.8373500 | 2.0819610 | | 13.3 | +/-20 |
| bis(2-chloroethyl) ether | A | 5.0000 | 5.3 | 1.5312550 | 1.3312510 | | 6.7 | +/-20 |
| 2-Chlorophenol | A | 5.0000 | 5.6 | 1.3533690 | 1.5237140 | | 12.6 | +/-20 |
| 1,3-Dichlorobenzene | A | 5.0000 | 5.1 | 1.4914740 | 1.5063710 | | 1.0 | +/-20 |
| 1,4-Dichlorobenzene | A | 5.0000 | 4.9 | 1.4740600 | 1.4424500 | | -2.1 | +/-20 |
| 1,2-Dichlorobenzene | A | 5.0000 | 5.0 | 1.4134490 | 1.4186120 | | 0.4 | +/-20 |
| Benzyl Alcohol | A | 5.0000 | 5.7 | 0.6439892 | 0.9322153 | | 14.4 | +/-20 |
| 2,2'-Oxybis(1-chloropropane) | A | 5.0000 | 5.2 | 0.3811859 | 0.3949845 | | 3.6 | +/-20 |
| 2-Methylphenol | A | 5.0000 | 6.2 | 1.1607310 | 1.4335930 | | 23.5 | +/-20 * |
| Hexachloroethane | A | 5.0000 | 4.6 | 0.5535732 | 0.5109072 | | -7.7 | +/-20 |
| N-Nitroso-di-n-Propylamine | A | 5.0000 | 6.1 | 0.8837751 | 1.0796930 | | 22.2 | +/-20 * |
| 4-Methylphenol | A | 5.0000 | 5.3 | 1.1353050 | 1.3971700 | | 5.6 | +/-20 |
| Nitrobenzene | A | 5.0000 | 5.9 | 0.3760061 | 0.4402135 | | 17.1 | +/-20 |
| Isophorone | A | 5.0000 | 5.5 | 0.4996273 | 0.6342334 | | 9.9 | +/-20 |
| 2-Nitrophenol | A | 5.0000 | 5.9 | 0.1467597 | 0.2332061 | | 18.9 | +/-20 |
| 2,4-Dimethylphenol | A | 10.000 | 10.7 | 0.3427845 | 0.3653770 | | 6.6 | +/-20 |
| Bis(2-Chloroethoxy)methane | A | 5.0000 | 5.3 | 0.3780235 | 0.4016575 | | 6.3 | +/-20 |
| 2,4-Dichlorophenol | A | 10.000 | 9.8 | 0.2946235 | 0.3234548 | | -2.4 | +/-20 |
| 1,2,4-Trichlorobenzene | A | 5.0000 | 4.7 | 0.3874001 | 0.3606703 | | -6.9 | +/-20 |
| Naphthalene | A | 5.0000 | 5.0 | 1.0669580 | 1.0679640 | | 0.1 | +/-20 |
| Benzoic acid | A | 20.000 | 29.4 | 0.1358415 | 0.1998858 | | 47.2 | +/-20 * |
| 4-Chloroaniline | A | 10.000 | 10.6 | 0.4563565 | 0.4844047 | | 6.1 | +/-20 |
| Hexachlorobutadiene | A | 5.0000 | 5.0 | 0.2363916 | 0.2360046 | | -0.2 | +/-20 |
| 4-Chloro-3-Methylphenol | A | 10.000 | 11.3 | 0.3085482 | 0.3475112 | | 12.6 | +/-20 |
| 2-Methylnaphthalene | A | 5.0000 | 5.1 | 0.7901196 | 0.8027370 | | 1.6 | +/-20 |
| Hexachlorocyclopentadiene | A | 10.000 | 2.3 | 0.3443795 | 0.0973535 | | -76.8 | +/-20 * |
| 2,4,6-Trichlorophenol | A | 10.000 | 11.0 | 0.3907367 | 0.4294561 | | 9.9 | +/-20 |
| 2,4,5-Trichlorophenol | A | 10.000 | 11.2 | 0.4224702 | 0.4744359 | | 12.3 | +/-20 |
| 2-Chloronaphthalene | A | 5.0000 | 5.1 | 1.2480280 | 1.2815470 | | 2.7 | +/-20 |
| 2-Nitroaniline | A | 10.000 | 12.9 | 0.3254949 | 0.4202492 | | 29.1 | +/-20 * |

* Values outside of QC limits



INITIAL CALIBRATION CHECK
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: NT14

Calibration: GC00033

Lab File ID: NT1423022848.D

Calibration Date: 02/28/2023

Sequence: SLB0374

Injection Date: 03/02/23

Lab Sample ID: SLB0374-ICV4

Injection Time: 05:52

Sequence Name: ABN 5

| COMPOUND | TYPE | CONC. (ug/mL) | | RESPONSE FACTOR | | | % DRIFT/DIFF | |
|----------------------------|------|---------------|------|-----------------|-----------|-----|--------------|---------|
| | | STD | ICV | ICAL | ICV | MIN | ICV | LIMIT |
| Acenaphthylene | A | 5.0000 | 5.3 | 1.8312950 | 1.9592480 | | 7.0 | +/-20 |
| Dimethylphthalate | A | 5.0000 | 5.4 | 1.2581570 | 1.3623210 | | 8.3 | +/-20 |
| 2,6-Dinitrotoluene | A | 10.000 | 10.8 | 0.2948315 | 0.3174823 | | 7.7 | +/-20 |
| Acenaphthene | A | 5.0000 | 5.0 | 1.1724930 | 1.1755810 | | 0.3 | +/-20 |
| 3-Nitroaniline | A | 10.000 | 11.0 | 0.3021810 | 0.3315424 | | 9.7 | +/-20 |
| 2,4-Dinitrophenol | A | 20.000 | 18.0 | 0.1437811 | 0.1750165 | | -9.9 | +/-20 |
| Dibenzofuran | A | 5.0000 | 5.0 | 1.8656210 | 1.8545480 | | -0.6 | +/-20 |
| 4-Nitrophenol | A | 10.000 | 9.6 | 0.1323756 | 0.1477914 | | -3.8 | +/-20 |
| 2,4-Dinitrotoluene | A | 10.000 | 10.4 | 0.4244424 | 0.4394642 | | 3.5 | +/-20 |
| Fluorene | A | 5.0000 | 5.1 | 1.5719010 | 1.5894510 | | 1.1 | +/-20 |
| 4-Chlorophenylphenyl ether | A | 5.0000 | 4.7 | 0.8363665 | 0.7857228 | | -6.1 | +/-20 |
| Diethyl phthalate | A | 5.0000 | 5.5 | 1.1765440 | 1.2980110 | | 10.3 | +/-20 |
| 4-Nitroaniline | A | 10.000 | 10.1 | 0.2995450 | 0.3037828 | | 1.4 | +/-20 |
| 4,6-Dinitro-2-methylphenol | A | 20.000 | 18.7 | 0.0975169 | 0.1255426 | | -6.6 | +/-20 |
| N-Nitrosodiphenylamine | A | 5.0000 | 5.4 | 0.5026629 | 0.5389820 | | 7.2 | +/-20 |
| 4-Bromophenyl phenyl ether | A | 5.0000 | 5.2 | 0.2209900 | 0.2300775 | | 4.1 | +/-20 |
| Hexachlorobenzene | A | 5.0000 | 5.0 | 0.2429692 | 0.2443254 | | 0.6 | +/-20 |
| Pentachlorophenol | A | 10.000 | 11.3 | 0.0938263 | 0.1356125 | | 12.5 | +/-20 |
| Phenanthrene | A | 5.0000 | 5.0 | 1.0640870 | 1.0642820 | | 0.02 | +/-20 |
| Anthracene | A | 5.0000 | 5.4 | 1.0059580 | 1.0952120 | | 8.9 | +/-20 |
| Carbazole | A | 5.0000 | 5.2 | 0.8816605 | 0.9114161 | | 3.4 | +/-20 |
| Di-n-Butylphthalate | A | 5.0000 | 5.7 | 0.9469101 | 1.2606580 | | 13.0 | +/-20 |
| Fluoranthene | A | 5.0000 | 4.6 | 1.5175930 | 1.4014580 | | -7.7 | +/-20 |
| Pyrene | A | 5.0000 | 4.9 | 1.6000330 | 1.5572440 | | -2.7 | +/-20 |
| Butylbenzylphthalate | A | 5.0000 | 5.3 | 0.4562763 | 0.5898381 | | 6.3 | +/-20 |
| Benzo(a)anthracene | A | 5.0000 | 5.4 | 1.3399020 | 1.4347660 | | 7.1 | +/-20 |
| 3,3'-Dichlorobenzidine | A | 15.000 | 19.2 | 0.3826468 | 0.4908211 | | 28.3 | +/-20 * |
| Chrysene | A | 5.0000 | 5.0 | 1.2879040 | 1.2948750 | | 0.5 | +/-20 |
| bis(2-Ethylhexyl)phthalate | A | 5.0000 | 4.7 | 0.5161185 | 0.5680411 | | -6.5 | +/-20 |
| Di-n-Octylphthalate | A | 5.0000 | 4.7 | 1.0531830 | 0.9962699 | | -5.4 | +/-20 |

* Values outside of QC limits



INITIAL CALIBRATION CHECK
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: NT14

Calibration: GC00033

Lab File ID: NT1423022848.D

Calibration Date: 02/28/2023

Sequence: SLB0374

Injection Date: 03/02/23

Lab Sample ID: SLB0374-ICV4

Injection Time: 05:52

Sequence Name: ABN 5

| COMPOUND | TYPE | CONC. (ug/mL) | | RESPONSE FACTOR | | | % DRIFT/DIFF | |
|---------------------------|------|---------------|------|-----------------|-----------|-----|--------------|---------|
| | | STD | ICV | ICAL | ICV | MIN | ICV | LIMIT |
| Benzofluoranthenes, Total | A | 10.000 | 12.7 | 1.2927770 | 1.6357480 | | 26.5 | +/-20 * |
| Benzo(a)pyrene | A | 5.0000 | 5.5 | 1.1338150 | 1.2413020 | | 9.5 | +/-20 |
| Indeno(1,2,3-cd)pyrene | A | 5.0000 | 2.2 | 1.4272450 | 0.6246675 | | -56.2 | +/-20 * |
| Dibenzo(a,h)anthracene | A | 5.0000 | 2.4 | 1.2122070 | 0.5843428 | | -51.8 | +/-20 * |
| Benzo(g,h,i)perylene | A | 5.0000 | 1.6 | 1.2448130 | 0.4079034 | | -67.2 | +/-20 * |
| 1-Methylnaphthalene | A | 5.0000 | 5.0 | 0.7274101 | 0.7308956 | | 0.5 | +/-20 |
| 2-Fluorophenol | A | 7.5000 | 9.31 | 1.0846110 | 1.3457580 | | 24.1 | +/-20 * |
| Phenol-d5 | A | 7.5000 | 8.91 | 1.5399100 | 1.8291630 | | 18.8 | +/-20 |
| 2-Chlorophenol-d4 | A | 7.5000 | 8.68 | 1.3093910 | 1.5155180 | | 15.7 | +/-20 |
| 1,2-Dichlorobenzene-d4 | A | 5.0000 | 4.88 | 0.9857584 | 0.9627683 | | -2.3 | +/-20 |
| Nitrobenzene-d5 | A | 5.0000 | 5.93 | 0.3912861 | 0.4644135 | | 18.7 | +/-20 |
| 2-Fluorobiphenyl | A | 5.0000 | 5.06 | 1.5568580 | 1.5744780 | | 1.1 | +/-20 |
| 2,4,6-Tribromophenol | A | 7.5000 | 7.49 | 0.1850894 | 0.2214475 | | -0.2 | +/-20 |
| p-Terphenyl-d14 | A | 5.0000 | 4.35 | 1.2319340 | 1.0707390 | | -13.1 | +/-20 |
| 1,4-Dichlorobenzene-d4 | A | 4.0000 | 4.0 | 28848.5700 | 1.0000 | | 0.0 | |
| Naphthalene-d8 | A | 4.0000 | 4.0 | 103564.8000 | 1.0000 | | 0.0 | |
| Acenaphthene-d10 | A | 4.0000 | 4.0 | 62651.1800 | 1.0000 | | 0.0 | |
| Phenanthrene-d10 | A | 4.0000 | 4.0 | 123124.0000 | 1.0000 | | 0.0 | |
| Chrysene-d12 | A | 4.0000 | 4.0 | 97764.2100 | 1.0000 | | 0.0 | |
| Di-n-Octylphthalate-d4 | A | 4.0000 | 4.0 | 118315.4000 | 1.0000 | | 0.0 | |
| Perylene-d12 | A | 4.0000 | 4.0 | 94293.2500 | 1.0000 | | 0.0 | |

* Values outside of QC limits

Data File: \\target\share\chem3\nt14,1\20230228 JB\NT1423022848.D

Date: 02-MAR-2023 05:52

Client ID:

Sample Info: SLB0374-ICV4

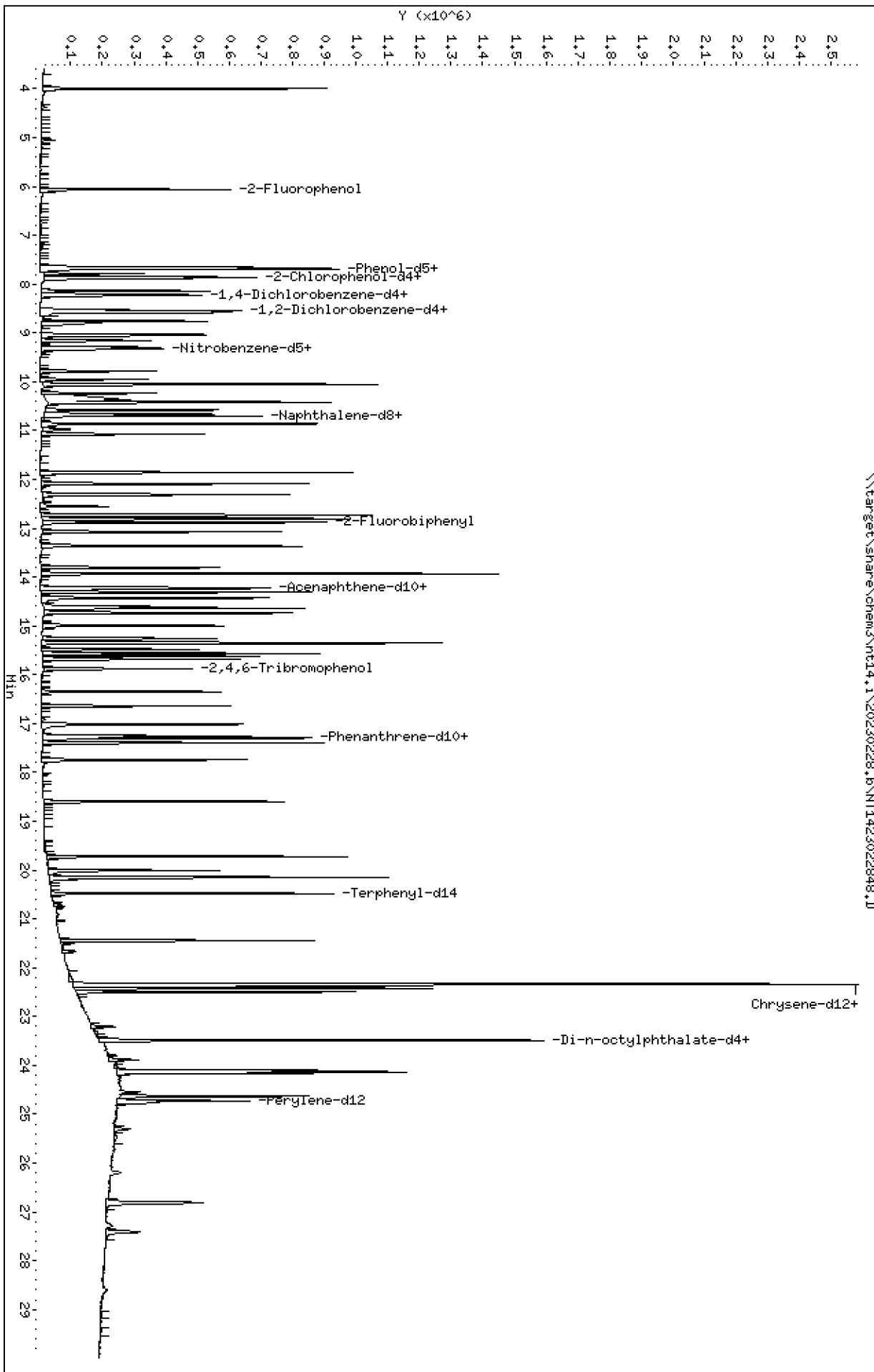
Column phase: ZB-5msi

Instrument: nt14,1

Operator: JGR

Column diameter: 0.25

\\target\share\chem3\nt14,1\20230228 JB\NT1423022848.D



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230228.b\NT1423022848.D
 Lab Smp Id: SLB0374-ICV4
 Inj Date : 02-MAR-2023 05:52 MS Autotune Date: 17-MAY-2011 01:22
 Operator : JGR Inst ID: nt14.i
 Smp Info : SLB0374-ICV4
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt14.i\20230228.b\ABN.m
 Meth Date : 11-Mar-2023 13:20 van Quant Type: ISTD
 Cal Date : 28-FEB-2023 15:16 Cal File: NT1423022808.D
 Als bottle: 4 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: ICAL.sub
 Target Version: 4.14
 Processing Host: VANS-201906

| Compounds | QUANT | SIG | RT | EXP RT | REL RT | RESPONSE | AMOUNTS | |
|---------------------------------|-------|-----|--------|--------|---------|----------|---------|-----------|
| | | | | | | | CAL-AMT | ON-COL |
| | MASS | | | | | | (ug/mL) | (ug/mL) |
| \$ 1 2-Fluorophenol | 112 | | 6.066 | 6.066 | (0.739) | 294012 | 7.50000 | 9.306 |
| \$ 2 Phenol-d5 | 99 | | 7.650 | 7.650 | (0.932) | 399623 | 7.50000 | 8.909 |
| 3 Phenol | 94 | | 7.673 | 7.673 | (0.935) | 303235 | 5.00000 | 5.666 |
| \$ 5 2-Chlorophenol-d4 | 132 | | 7.858 | 7.858 | (0.958) | 331100 | 7.50000 | 8.681 |
| 4 Bis(2-Chloroethyl)ether | 93 | | 7.789 | 7.789 | (0.949) | 193895 | 5.00000 | 5.335 |
| 6 2-Chlorophenol | 128 | | 7.889 | 7.889 | (0.961) | 221927 | 5.00000 | 5.629 |
| 7 1,3-Dichlorobenzene | 146 | | 8.137 | 8.137 | (0.991) | 219401 | 5.00000 | 5.050 |
| * 8 1,4-Dichlorobenzene-d4 | 152 | | 8.207 | 8.207 | (1.000) | 116519 | 4.00000 | |
| 9 1,4-Dichlorobenzene | 146 | | 8.238 | 8.238 | (1.004) | 210091 | 5.00000 | 4.893 |
| \$ 10 1,2-Dichlorobenzene-d4 | 152 | | 8.556 | 8.556 | (1.043) | 140226 | 5.00000 | 4.883 |
| 12 1,2-Dichlorobenzene | 146 | | 8.579 | 8.579 | (1.045) | 206619 | 5.00000 | 5.018 |
| 11 Benzyl alcohol | 108 | | 8.517 | 8.517 | (1.038) | 135776 | 5.00000 | 5.719 |
| 14 2,2'-oxybis(1-Chloropropane) | 121 | | 8.797 | 8.797 | (1.072) | 57529 | 5.00000 | 5.181 (M) |
| 13 2-Methylphenol | 108 | | 8.758 | 8.758 | (1.067) | 208801 | 5.00000 | 6.175 |
| 17 Hexachloroethane | 117 | | 9.162 | 9.162 | (1.116) | 74413 | 5.00000 | 4.615 |
| 16 N-Nitroso-di-n-propylamine | 70 | | 9.061 | 9.061 | (1.104) | 157256 | 5.00000 | 6.108 |
| 15 4-Methylphenol | 108 | | 9.037 | 9.037 | (1.101) | 203496 | 5.00000 | 5.281 |
| \$ 18 Nitrobenzene-d5 | 82 | | 9.293 | 9.293 | (0.871) | 249094 | 5.00000 | 5.934 |
| 19 Nitrobenzene | 77 | | 9.332 | 9.332 | (0.875) | 236114 | 5.00000 | 5.854 |
| 20 Isophorone | 82 | | 9.782 | 9.782 | (0.917) | 340179 | 5.00000 | 5.497 |
| 21 2-Nitrophenol | 139 | | 9.953 | 9.953 | (0.933) | 125083 | 5.00000 | 5.945 |
| 22 2,4-Dimethylphenol | 107 | | 10.054 | 10.054 | (0.943) | 391949 | 10.0000 | 10.66 |
| 23 Bis(2-Chloroethoxy)methane | 93 | | 10.232 | 10.232 | (0.959) | 215434 | 5.00000 | 5.313 |
| 24 Benzoic acid | 105 | | 10.372 | 10.372 | (0.972) | 428845 | 20.0000 | 29.43 |
| 25 2,4-Dichlorophenol | 162 | | 10.418 | 10.418 | (0.977) | 346978 | 10.0000 | 9.757 |
| 26 1,2,4-Trichlorobenzene | 180 | | 10.580 | 10.580 | (0.992) | 193450 | 5.00000 | 4.655 |
| * 27 Naphthalene-d8 | 136 | | 10.665 | 10.665 | (1.000) | 429090 | 4.00000 | |
| 28 Naphthalene | 128 | | 10.704 | 10.704 | (1.004) | 572816 | 5.00000 | 5.005 |
| 29 4-Chloroaniline | 127 | | 10.866 | 10.866 | (1.019) | 519633 | 10.0000 | 10.61 |
| 30 Hexachlorobutadiene | 225 | | 11.074 | 11.074 | (1.038) | 126584 | 5.00000 | 4.992 |
| 31 4-Chloro-3-methylphenol | 107 | | 11.856 | 11.856 | (1.112) | 372784 | 10.0000 | 11.26 |
| 32 2-Methylnaphthalene | 142 | | 12.088 | 12.088 | (1.133) | 430558 | 5.00000 | 5.080 |
| 33 Hexachlorocyclopentadiene | 237 | | 12.553 | 12.553 | (0.881) | 61001 | 10.0000 | 2.316 |

| Compounds | QUANT SIG | | AMOUNTS | | | | |
|-----------------------------------|-----------|--------|---------|---------|----------|--------------------|-------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| 34 2,4,6-Trichlorophenol | 196 | 12.731 | 12.731 | (0.894) | 269094 | 10.0000 | 10.99 |
| 35 2,4,5-Trichlorophenol | 196 | 12.808 | 12.808 | (0.899) | 297278 | 10.0000 | 11.23 |
| § 36 2-Fluorobiphenyl | 172 | 12.885 | 12.885 | (0.904) | 493278 | 5.00000 | 5.057 |
| 37 2-Chloronaphthalene | 162 | 13.071 | 13.071 | (0.917) | 401504 | 5.00000 | 5.134 |
| 38 2-Nitroaniline | 65 | 13.365 | 13.365 | (0.938) | 263325 | 10.0000 | 12.91 |
| 39 Dimethylphthalate | 163 | 13.806 | 13.806 | (0.969) | 426810 | 5.00000 | 5.414 |
| 40 Acenaphthylene | 152 | 13.930 | 13.930 | (0.978) | 613825 | 5.00000 | 5.349 |
| 41 2,6-Dinitrotoluene | 165 | 13.938 | 13.938 | (0.978) | 198932 | 10.0000 | 10.77 |
| * 42 Acenaphthene-d10 | 164 | 14.247 | 14.247 | (1.000) | 250637 | 4.00000 | |
| 43 3-Nitroaniline | 138 | 14.216 | 14.216 | (0.998) | 207742 | 10.0000 | 10.97 |
| 44 Acenaphthene | 153 | 14.309 | 14.309 | (1.004) | 368305 | 5.00000 | 5.013 |
| 45 2,4-Dinitrophenol | 184 | 14.425 | 14.425 | (1.012) | 219328 | 20.0000 | 18.02 |
| 46 Dibenzofuran | 168 | 14.642 | 14.642 | (1.028) | 581023 | 5.00000 | 4.970 |
| 47 4-Nitrophenol | 109 | 14.595 | 14.595 | (1.024) | 92605 | 10.0000 | 9.621 |
| 48 2,4-Dinitrotoluene | 165 | 14.734 | 14.734 | (1.034) | 275365 | 10.0000 | 10.35 |
| 50 Diethylphthalate | 149 | 15.260 | 15.260 | (1.071) | 406662 | 5.00000 | 5.516 |
| 49 Fluorene | 166 | 15.345 | 15.345 | (1.077) | 497969 | 5.00000 | 5.056 |
| 51 4-Chlorophenyl-phenylether | 204 | 15.361 | 15.361 | (1.078) | 246164 | 5.00000 | 4.697 |
| 52 4-Nitroaniline | 138 | 15.484 | 15.484 | (1.087) | 190348 | 10.0000 | 10.14 |
| 53 4,6-Dinitro-2-methylphenol | 198 | 15.569 | 15.569 | (0.902) | 287566 | 20.0000 | 18.69 |
| 54 N-Nitrosodiphenylamine | 169 | 15.615 | 15.615 | (0.905) | 308646 | 5.00000 | 5.361 |
| § 55 2,4,6-Tribromophenol | 330 | 15.885 | 15.885 | (1.115) | 104068 | 7.50000 | 7.486 |
| 56 4-Bromophenyl-phenylether | 248 | 16.348 | 16.348 | (0.948) | 131753 | 5.00000 | 5.206 |
| 57 Hexachlorobenzene | 284 | 16.642 | 16.642 | (0.965) | 139912 | 5.00000 | 5.028 |
| 58 Pentachlorophenol | 266 | 17.013 | 17.013 | (0.986) | 155316 | 10.0000 | 11.25 |
| * 59 Phenanthrene-d10 | 188 | 17.253 | 17.253 | (1.000) | 458117 | 4.00000 | |
| 60 Phenanthrene | 178 | 17.299 | 17.299 | (1.003) | 609457 | 5.00000 | 5.001 |
| 61 Anthracene | 178 | 17.392 | 17.392 | (1.008) | 627169 | 5.00000 | 5.444 |
| 62 Carbazole | 167 | 17.748 | 17.748 | (1.029) | 521919 | 5.00000 | 5.169 |
| 63 Di-n-butylphthalate | 149 | 18.599 | 18.599 | (1.078) | 721911 | 5.00000 | 5.652 |
| 64 Fluoranthene | 202 | 19.729 | 19.729 | (0.882) | 689286 | 5.00000 | 4.617 |
| 65 Pyrene | 202 | 20.154 | 20.154 | (0.901) | 765907 | 5.00000 | 4.866 |
| § 66 Terphenyl-d14 | 244 | 20.479 | 20.479 | (0.915) | 526627 | 5.00000 | 4.346 |
| 67 Butylbenzylphthalate | 149 | 21.447 | 21.447 | (0.958) | 290103 | 5.00000 | 5.317 |
| 68 Benzo(a)anthracene | 228 | 22.353 | 22.353 | (0.999) | 705668 | 5.00000 | 5.354 |
| * 69 Chrysene-d12 | 240 | 22.376 | 22.376 | (1.000) | 393468 | 4.00000 | |
| 70 3,3'-Dichlorobenzidine | 252 | 22.338 | 22.338 | (0.998) | 724209 | 15.0000 | 19.24 |
| 71 Chrysene | 228 | 22.423 | 22.423 | (1.002) | 636865 | 5.00000 | 5.027 |
| 72 bis(2-Ethylhexyl)phthalate | 149 | 22.500 | 22.500 | (0.958) | 406601 | 5.00000 | 4.675 |
| * 134 Di-n-octylphthalate-d4 | 153 | 23.483 | 23.483 | (1.000) | 572636 | 4.00000 | |
| 73 Di-n-octylphthalate | 149 | 23.491 | 23.491 | (1.000) | 713125 | 5.00000 | 4.730 |
| 74 Benzo(b)fluoranthene | 252 | 24.118 | 24.118 | (0.975) | 597901 | 5.00000 | 6.387 |
| 75 Benzo(k)fluoranthene | 252 | 24.149 | 24.149 | (0.977) | 632550 | 5.00000 | 6.264 |
| 76 Benzo(a)pyrene | 252 | 24.637 | 24.637 | (0.996) | 439607 | 5.00000 | 5.474 |
| * 77 Perylene-d12 | 264 | 24.730 | 24.730 | (1.000) | 283320 | 4.00000 | |
| 78 Indeno(1,2,3-cd)pyrene | 276 | 26.808 | 26.808 | (1.084) | 221226 | 5.00000 | 2.188 |
| 79 Dibenzo(a,h)anthracene | 278 | 26.824 | 26.824 | (1.085) | 206945 | 5.00000 | 2.410 |
| 80 Benzo(g,h,i)perylene | 276 | 27.414 | 27.414 | (1.109) | 144459 | 5.00000 | 1.638 |
| 90 N-Nitrosodimethylamine | 74 | 3.996 | 3.996 | (0.487) | 246117 | 10.0000 | 11.26 |
| 91 Aniline | 93 | 7.689 | 7.689 | (0.937) | 578168 | 10.0000 | 11.14 |
| 93 Benzidine | 184 | 20.007 | 20.007 | (0.894) | 407864 | 10.0000 | 6.530 |
| 103 Pyridine | 79 | 3.996 | 3.996 | (0.487) | 394056 | 5.00000 | 5.896 |
| 105 1-methylnaphthalene | 142 | 12.305 | 12.305 | (1.154) | 392025 | 5.00000 | 5.024 |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77 | 15.685 | 15.685 | (1.101) | 474086 | 5.00000 | 5.602 |

| Compounds | QUANT SIG | | | | | | AMOUNTS | |
|-------------------------------|-----------|--|--------|--------|---------|----------|--------------------|-------------------|
| | MASS | | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| 187 Total Benzofluoranthenes | 252 | | 24.149 | 24.149 | (0.977) | 1158600 | 10.0000 | 12.65 |
| 120 2,3,4,6-Tetrachlorophenol | 232 | | 14.997 | 14.997 | (1.053) | 147371 | 5.00000 | 5.092 |

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 01-MAR-2023
 Lab File ID: NT1423022848.D Calibration Time: 22:40
 Lab Smp Id: SLB0374-ICV4
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: JGR
 Method File: \\target\share\chem3\nt14.i\20230228.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 116519 | 58260 | 233038 | 116519 | 0.00 |
| 27 Naphthalene-d8 | 429090 | 214545 | 858180 | 429090 | 0.00 |
| 42 Acenaphthene-d10 | 250637 | 125319 | 501274 | 250637 | 0.00 |
| 59 Phenanthrene-d10 | 458117 | 229059 | 916234 | 458117 | 0.00 |
| 69 Chrysene-d12 | 393468 | 196734 | 786936 | 393468 | 0.00 |
| 134 Di-n-octylphthala | 572636 | 286318 | 1145272 | 572636 | 0.00 |
| 77 Perylene-d12 | 283320 | 141660 | 566640 | 283320 | 0.00 |

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

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

REVIEW SUMMARY FOR FILE - NT1423022848.D

Lab ID: SLB0374-ICV4
nt14.i, ABN.m, 02-MAR-2023 05:52

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

No RRT check. Ccal file.

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

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

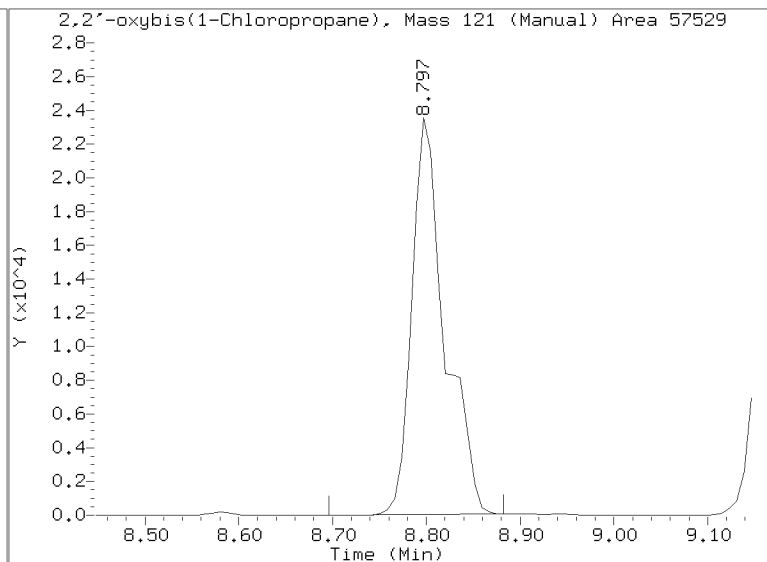
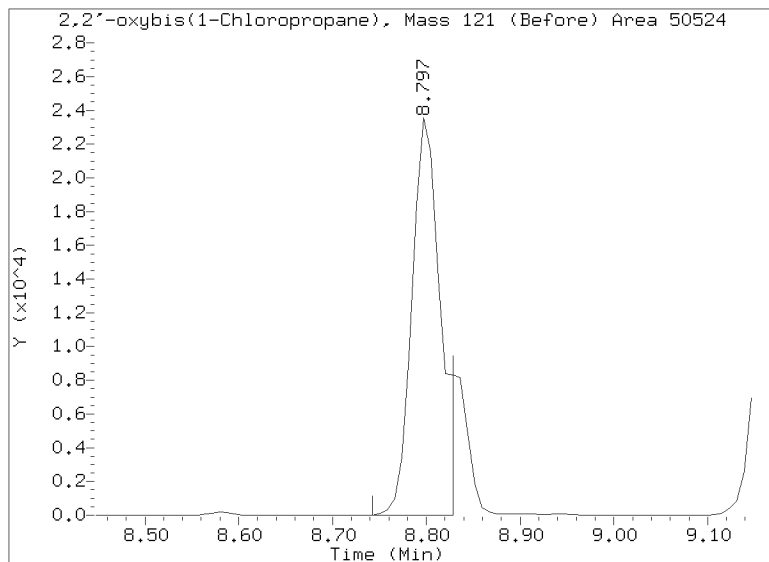
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230228.b/NT1423022848.D

Injection Date: 02-MAR-2023 05:52

Lab ID:SLB0374-ICV4 Client ID:

Report Date: 03/14/2023 08:43



Instrument: nt14.i Date: 02-MAR-2023 Method: ABN.m

INITIAL CAL: 28-FEB-2023

| Compound | %RSD or R ² |
|--------------|------------------------|
| Benzoic acid | 53.2 |

ICV CAL: NT1423022848.D 02-MAR-2023 05:52

| Compound | %D |
|----------------------------|--------|
| 2-Methylphenol | 23.51 |
| N-Nitroso-di-n-propylamine | 22.17 |
| Benzoic acid | 47.15 |
| Hexachlorocyclopentadiene | -76.8 |
| 2-Nitroaniline | 29.11 |
| 3,3'-Dichlorobenzidine | 28.27 |
| Benzo(b)fluoranthene | 27.75 |
| Benzo(k)fluoranthene | 25.28 |
| Indeno(1,2,3-cd)pyrene | -56.23 |
| Dibenzo(a,h)anthracene | -51.80 |
| Benzo(g,h,i)perylene | -67.23 |
| Benzidine | -34.7 |
| Total Benzofluoranthenes | 26.53 |
| 2-Fluorophenol | 24.08 |



INITIAL CALIBRATION CHECK
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor OEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: NT10

Calibration: GC00046

Lab File ID: NT1003222302.D

Calibration Date: 03/15/2023

Sequence: SLC0397

Injection Date: 03/22/23

Lab Sample ID: SLC0397-ICV1

Injection Time: 17:42

Sequence Name: ABN 5

| COMPOUND | TYPE | CONC. (ug/mL) | | RESPONSE FACTOR | | | % DRIFT/DIFF | |
|-----------------------------|------|---------------|------|-----------------|-----------|-----|--------------|---------|
| | | STD | ICV | ICAL | ICV | MIN | ICV | LIMIT |
| Phenol | A | 5.0000 | 4.8 | 1.6490140 | 1.5990200 | | -3.0 | +/-20 |
| 4-Methylphenol | A | 5.0000 | 5.2 | 1.2665770 | 1.3098650 | | 3.4 | +/-20 |
| Naphthalene | A | 5.0000 | 4.9 | 1.0596590 | 1.0417170 | | -1.7 | +/-20 |
| 2-Methylnaphthalene | A | 5.0000 | 5.1 | 0.7647129 | 0.7832322 | | 2.4 | +/-20 |
| Acenaphthylene | A | 5.0000 | 5.4 | 1.9964080 | 2.1369840 | | 7.0 | +/-20 |
| Dimethylphthalate | A | 5.0000 | 5.0 | 1.2994310 | 1.3055060 | | 0.5 | +/-20 |
| Acenaphthene | A | 5.0000 | 4.9 | 1.2333460 | 1.2089900 | | -2.0 | +/-20 |
| Dibenzofuran | A | 5.0000 | 5.0 | 1.8187540 | 1.8017580 | | -0.9 | +/-20 |
| Fluorene | A | 5.0000 | 5.0 | 1.4308680 | 1.4446990 | | 1.0 | +/-20 |
| Phenanthrene | A | 5.0000 | 4.8 | 1.0907130 | 1.0521710 | | -3.5 | +/-20 |
| Anthracene | A | 5.0000 | 5.1 | 1.0462760 | 1.0677510 | | 2.1 | +/-20 |
| Fluoranthene | A | 5.0000 | 4.5 | 1.6072690 | 1.4442660 | | -10.1 | +/-20 |
| Pyrene | A | 5.0000 | 4.4 | 1.6487720 | 1.4602410 | | -11.4 | +/-20 |
| Butylbenzylphthalate | A | 5.0000 | 4.9 | 0.5292894 | 0.5823633 | | -2.4 | +/-20 |
| Benzo(a)anthracene | A | 5.0000 | 4.9 | 1.4118770 | 1.3731030 | | -2.7 | +/-20 |
| Chrysene | A | 5.0000 | 4.7 | 1.3793780 | 1.2829100 | | -7.0 | +/-20 |
| bis(2-Ethylhexyl)phthalate | A | 5.0000 | 4.5 | 0.5248968 | 0.5293938 | | -9.8 | +/-20 |
| Benzo(a)fluoranthene, Total | A | 10.0000 | 10.0 | 1.2519020 | 1.2510970 | | -0.06 | +/-20 |
| Benzo(a)pyrene | A | 5.0000 | 5.1 | 1.1592370 | 1.1755380 | | 1.4 | +/-20 |
| Indeno(1,2,3-cd)pyrene | A | 5.0000 | 4.9 | 1.4748270 | 1.4480890 | | -1.8 | +/-20 |
| Dibenzo(a,h)anthracene | A | 5.0000 | 5.0 | 1.2244340 | 1.2187680 | | -0.5 | +/-20 |
| Benzo(g,h,i)perylene | A | 5.0000 | 4.9 | 1.2763410 | 1.2597220 | | -1.3 | +/-20 |
| 2-Fluorophenol | A | 7.5000 | 7.32 | 1.2096460 | 1.1801980 | | -2.4 | +/-20 |
| Phenol-d5 | A | 7.5000 | 7.54 | 1.5868760 | 1.5956110 | | 0.5 | +/-20 |
| 2-Chlorophenol-d4 | A | 7.5000 | 7.55 | 1.3550800 | 1.3636150 | | 0.6 | +/-20 |
| 1,2-Dichlorobenzene-d4 | A | 5.0000 | 4.95 | 0.9731556 | 0.9637192 | | -1.0 | +/-20 |
| Nitrobenzene-d5 | A | 5.0000 | 4.87 | 0.4037447 | 0.3930889 | | -2.6 | +/-20 |
| 2-Fluorobiphenyl | A | 5.0000 | 4.87 | 1.5822890 | 1.5403880 | | -2.6 | +/-20 |
| 2,4,6-Tribromophenol | A | 7.5000 | 9.25 | 0.1585901 | 0.2292312 | | 23.3 | +/-20 * |
| p-Terphenyl-d14 | A | 5.0000 | 4.68 | 1.2381950 | 1.1588660 | | -6.4 | +/-20 |

* Values outside of QC limits



INITIAL CALIBRATION CHECK
EPA 8270E

| | | | |
|----------------|----------------------------------|-------------------|------------------------|
| Laboratory: | <u>Analytical Resources, LLC</u> | SDG: | <u>23A0180</u> |
| Client: | <u>Anchor QEA, LLC</u> | Project: | <u>AOC5 MR Phase 1</u> |
| Instrument ID: | <u>NT10</u> | Calibration: | <u>GC00046</u> |
| Lab File ID: | <u>NT1003222302.D</u> | Calibration Date: | <u>03/15/2023</u> |
| Sequence: | <u>SLC0397</u> | Injection Date: | <u>03/22/23</u> |
| Lab Sample ID: | <u>SLC0397-ICV1</u> | Injection Time: | <u>17:42</u> |
| Sequence Name: | <u>ABN 5</u> | | |

| COMPOUND | TYPE | CONC. (ug/mL) | | RESPONSE FACTOR | | | % DRIFT/DIFF | |
|------------------------|------|---------------|-----|-----------------|--------|-----|--------------|-------|
| | | STD | ICV | ICAL | ICV | MIN | ICV | LIMIT |
| 1,4-Dichlorobenzene-d4 | A | 4.0000 | 4.0 | 42885.5000 | 1.0000 | | | |
| Naphthalene-d8 | A | 4.0000 | 4.0 | 156116.5000 | 1.0000 | | | |
| Acenaphthene-d10 | A | 4.0000 | 4.0 | 84306.5000 | 1.0000 | | | |
| Phenanthrene-d10 | A | 4.0000 | 4.0 | 143212.3000 | 1.0000 | | | |
| Chrysene-d12 | A | 4.0000 | 4.0 | 86767.0000 | 1.0000 | | | |
| Di-n-Octylphthalate-d4 | A | 4.0000 | 4.0 | 125079.3000 | 1.0000 | | | |
| Perylene-d12 | A | 4.0000 | 4.0 | 105387.3000 | 1.0000 | | | |

* Values outside of QC limits

Data File: \\target\share\chem3\nt10.1\20230322.16\NT1003222302.D

Date: 23-MAR-2023 17:42

Client ID:

Sample Info: SLC0397-ICW1

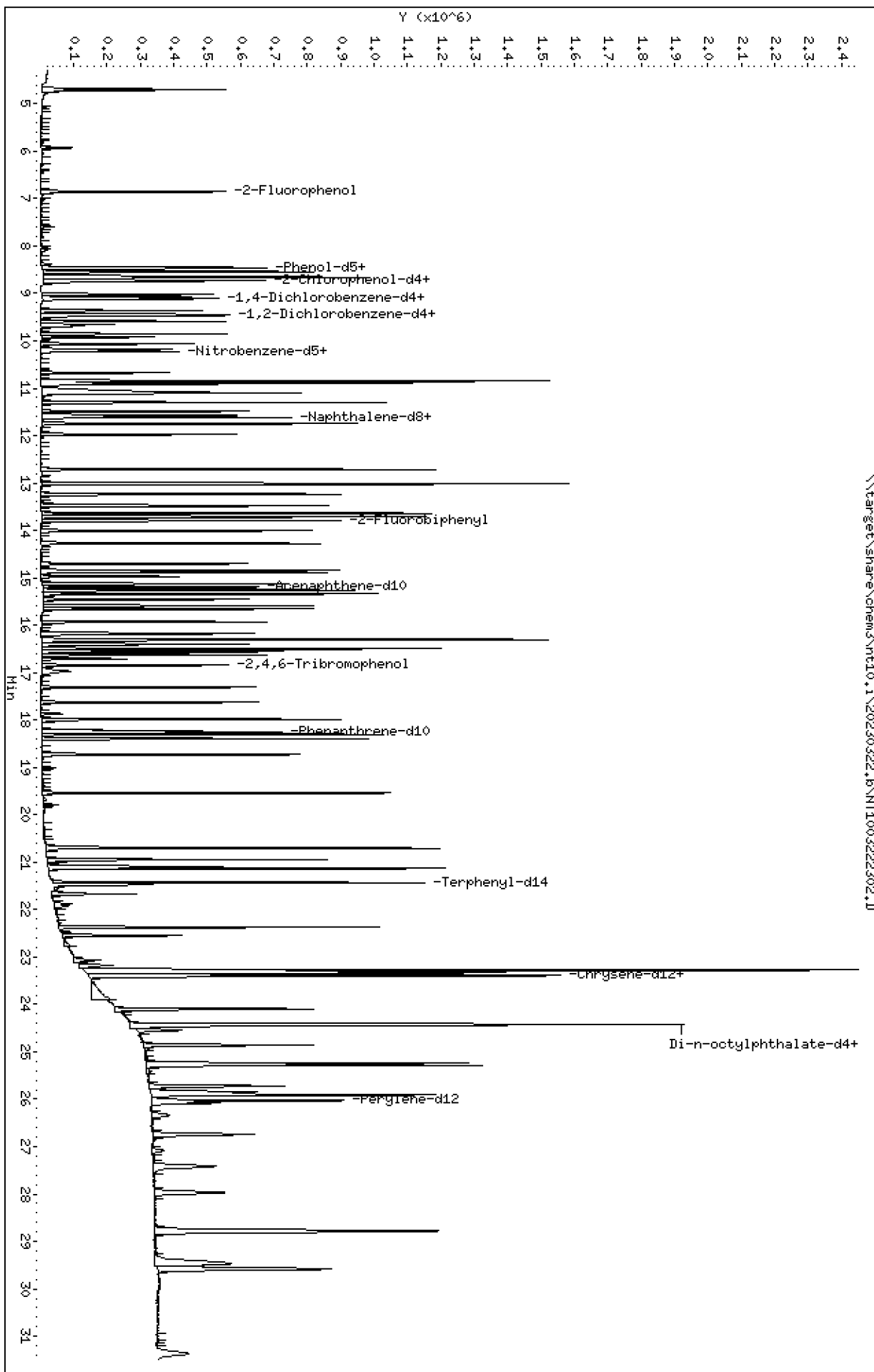
Column phase: ZB-5msi

Instrument: nt10.1

Operator: VTS

Column diameter: 0.25

\\target\share\chem3\nt10.1\20230322.16\NT1003222302.D



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230322.b\NT1003222302.D
 Lab Smp Id: SLC0397-ICV1
 Inj Date : 22-MAR-2023 17:42
 Operator : VTS
 Smp Info : SLC0397-ICV1
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt10.i\20230322.b\ABN.m
 Meth Date : 25-Mar-2023 07:55 van
 Cal Date : 16-MAR-2023 00:22
 Als bottle: 2
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: VANS-201906

Inst ID: nt10.i
 Quant Type: ISTD
 Cal File: NT10031508.D
 Continuing Calibration Sample
 Compound Sublist: ICAL.sub

| Compounds | QUANT | SIG | RT | EXP RT | REL RT | RESPONSE | AMOUNTS | |
|---------------------------------|-------|-----|--------|--------|---------|----------|---------|-----------|
| | | | | | | | CAL-AMT | ON-COL |
| | MASS | | | | | | (ug/mL) | (ug/mL) |
| \$ 1 2-Fluorophenol | 112 | | 6.851 | 6.851 | (0.754) | 271028 | 7.50000 | 7.317 |
| \$ 2 Phenol-d5 | 99 | | 8.450 | 8.450 | (0.930) | 366426 | 7.50000 | 7.541 |
| 3 Phenol | 94 | | 8.473 | 8.473 | (0.933) | 244806 | 5.00000 | 4.848 |
| \$ 5 2-Chlorophenol-d4 | 132 | | 8.721 | 8.721 | (0.960) | 313149 | 7.50000 | 7.547 |
| 4 Bis(2-Chloroethyl)ether | 93 | | 8.628 | 8.628 | (0.950) | 172886 | 5.00000 | 4.617 |
| 6 2-Chlorophenol | 128 | | 8.752 | 8.752 | (0.963) | 209607 | 5.00000 | 4.850 |
| 7 1,3-Dichlorobenzene | 146 | | 9.022 | 9.022 | (0.993) | 225373 | 5.00000 | 4.933 |
| * 8 1,4-Dichlorobenzene-d4 | 152 | | 9.084 | 9.084 | (1.000) | 122478 | 4.00000 | |
| 9 1,4-Dichlorobenzene | 146 | | 9.115 | 9.115 | (1.003) | 217923 | 5.00000 | 4.938 |
| \$ 10 1,2-Dichlorobenzene-d4 | 152 | | 9.449 | 9.449 | (1.040) | 147543 | 5.00000 | 4.952 |
| 12 1,2-Dichlorobenzene | 146 | | 9.472 | 9.472 | (1.043) | 215681 | 5.00000 | 4.966 |
| 11 Benzyl alcohol | 108 | | 9.356 | 9.356 | (1.030) | 126669 | 5.00000 | 5.345 |
| 14 2,2'-oxybis(1-Chloropropane) | 121 | | 9.659 | 9.659 | (1.063) | 61021 | 5.00000 | 4.784 (M) |
| 13 2-Methylphenol | 108 | | 9.589 | 9.589 | (1.056) | 185852 | 5.00000 | 5.049 |
| 17 Hexachloroethane | 117 | | 10.062 | 10.062 | (1.108) | 88698 | 5.00000 | 4.898 |
| 16 N-Nitroso-di-n-propylamine | 70 | | 9.923 | 9.923 | (1.092) | 138832 | 5.00000 | 4.777 |
| 15 4-Methylphenol | 108 | | 9.853 | 9.853 | (1.085) | 200537 | 5.00000 | 5.171 |
| \$ 18 Nitrobenzene-d5 | 82 | | 10.187 | 10.187 | (0.880) | 225663 | 5.00000 | 4.868 |
| 19 Nitrobenzene | 77 | | 10.218 | 10.218 | (0.883) | 210918 | 5.00000 | 4.636 |
| 20 Isophorone | 82 | | 10.668 | 10.668 | (0.922) | 276794 | 5.00000 | 4.756 |
| 21 2-Nitrophenol | 139 | | 10.850 | 10.850 | (0.938) | 132878 | 5.00000 | 5.969 |
| 22 2,4-Dimethylphenol | 107 | | 10.901 | 10.901 | (0.942) | 356709 | 10.0000 | 8.537 |
| 23 Bis(2-Chloroethoxy)methane | 93 | | 11.096 | 11.096 | (0.959) | 185722 | 5.00000 | 4.778 |
| 24 Benzoic acid | 105 | | 11.104 | 11.104 | (0.960) | 557209 | 20.0000 | 22.74 |
| 25 2,4-Dichlorophenol | 162 | | 11.300 | 11.300 | (0.976) | 386083 | 10.0000 | 11.55 |
| 26 1,2,4-Trichlorobenzene | 180 | | 11.487 | 11.487 | (0.993) | 192033 | 5.00000 | 4.892 |
| * 27 Naphthalene-d8 | 136 | | 11.572 | 11.572 | (1.000) | 459261 | 4.00000 | |
| 28 Naphthalene | 128 | | 11.611 | 11.611 | (1.003) | 598025 | 5.00000 | 4.915 |
| 29 4-Chloroaniline | 127 | | 11.750 | 11.750 | (1.015) | 519939 | 10.0000 | 10.95 |
| 30 Hexachlorobutadiene | 225 | | 11.974 | 11.974 | (1.035) | 121209 | 5.00000 | 5.270 |
| 31 4-Chloro-3-methylphenol | 107 | | 12.709 | 12.709 | (1.098) | 376243 | 10.0000 | 10.39 |
| 32 2-Methylnaphthalene | 142 | | 13.011 | 13.011 | (1.124) | 449635 | 5.00000 | 5.121 |
| 33 Hexachlorocyclopentadiene | 237 | | 13.475 | 13.475 | (0.887) | 250601 | 10.0000 | 10.25 |

| Compounds | QUANT SIG | | | | | AMOUNTS | |
|-----------------------------------|-----------|--------|--------|---------|----------|--------------------|-------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| 34 2,4,6-Trichlorophenol | 196 | 13.637 | 13.637 | (0.898) | 277292 | 10.0000 | 10.62 |
| 35 2,4,5-Trichlorophenol | 196 | 13.707 | 13.707 | (0.902) | 296439 | 10.0000 | 10.22 |
| § 36 2-Fluorobiphenyl | 172 | 13.800 | 13.800 | (0.908) | 508532 | 5.00000 | 4.868 |
| 37 2-Chloronaphthalene | 162 | 14.009 | 14.009 | (0.922) | 401206 | 5.00000 | 4.743 |
| 38 2-Nitroaniline | 65 | 14.272 | 14.272 | (0.939) | 231211 | 10.0000 | 9.730 |
| 39 Dimethylphthalate | 163 | 14.706 | 14.706 | (0.968) | 430990 | 5.00000 | 5.023 |
| 40 Acenaphthylene | 152 | 14.884 | 14.884 | (0.980) | 705488 | 5.00000 | 5.352 |
| 41 2,6-Dinitrotoluene | 165 | 14.845 | 14.845 | (0.977) | 206856 | 10.0000 | 11.16 |
| * 42 Acenaphthene-d10 | 164 | 15.193 | 15.193 | (1.000) | 264106 | 4.00000 | |
| 43 3-Nitroaniline | 138 | 15.131 | 15.131 | (0.996) | 225341 | 10.0000 | 10.77 |
| 44 Acenaphthene | 153 | 15.263 | 15.263 | (1.005) | 399127 | 5.00000 | 4.901 |
| 45 2,4-Dinitrophenol | 184 | 15.340 | 15.340 | (1.010) | 276058 | 20.0000 | 23.51 |
| 46 Dibenzofuran | 168 | 15.595 | 15.595 | (1.026) | 594819 | 5.00000 | 4.953 |
| 47 4-Nitrophenol | 109 | 15.456 | 15.456 | (1.017) | 116564 | 10.0000 | 8.908 |
| 48 2,4-Dinitrotoluene | 165 | 15.657 | 15.657 | (1.031) | 287629 | 10.0000 | 10.43 |
| 50 Diethylphthalate | 149 | 16.175 | 16.175 | (1.065) | 489083 | 5.00000 | 5.810 |
| 49 Fluorene | 166 | 16.306 | 16.306 | (1.073) | 476942 | 5.00000 | 5.048 |
| 51 4-Chlorophenyl-phenylether | 204 | 16.298 | 16.298 | (1.073) | 227520 | 5.00000 | 5.064 |
| 52 4-Nitroaniline | 138 | 16.406 | 16.406 | (1.080) | 216492 | 10.0000 | 11.48 |
| 53 4,6-Dinitro-2-methylphenol | 198 | 16.499 | 16.499 | (0.904) | 340606 | 20.0000 | 21.87 |
| 54 N-Nitrosodiphenylamine | 169 | 16.553 | 16.553 | (0.907) | 318924 | 5.00000 | 4.740 |
| § 55 2,4,6-Tribromophenol | 330 | 16.846 | 16.846 | (1.109) | 113515 | 7.50000 | 9.247 |
| 56 4-Bromophenyl-phenylether | 248 | 17.308 | 17.308 | (0.948) | 145055 | 5.00000 | 5.153 |
| 57 Hexachlorobenzene | 284 | 17.626 | 17.626 | (0.966) | 153402 | 5.00000 | 5.198 |
| 58 Pentachlorophenol | 266 | 17.990 | 17.990 | (0.986) | 194642 | 10.0000 | 10.92 |
| * 59 Phenanthrene-d10 | 188 | 18.253 | 18.253 | (1.000) | 503255 | 4.00000 | |
| 60 Phenanthrene | 178 | 18.299 | 18.299 | (1.003) | 661888 | 5.00000 | 4.823 |
| 61 Anthracene | 178 | 18.392 | 18.392 | (1.008) | 671689 | 5.00000 | 5.103 |
| 62 Carbazole | 167 | 18.725 | 18.725 | (1.026) | 595176 | 5.00000 | 5.046 |
| 63 Di-n-butylphthalate | 149 | 19.545 | 19.545 | (1.071) | 789673 | 5.00000 | 5.006 |
| 64 Fluoranthene | 202 | 20.705 | 20.705 | (0.887) | 790257 | 5.00000 | 4.493 |
| 65 Pyrene | 202 | 21.131 | 21.131 | (0.905) | 798998 | 5.00000 | 4.428 |
| § 66 Terphenyl-d14 | 244 | 21.425 | 21.425 | (0.918) | 634095 | 5.00000 | 4.680 |
| 67 Butylbenzylphthalate | 149 | 22.369 | 22.369 | (0.958) | 318651 | 5.00000 | 4.878 |
| 68 Benzo(a)anthracene | 228 | 23.314 | 23.314 | (0.999) | 751319 | 5.00000 | 4.863 |
| * 69 Chrysene-d12 | 240 | 23.345 | 23.345 | (1.000) | 437735 | 4.00000 | |
| 70 3,3'-Dichlorobenzidine | 252 | 23.275 | 23.275 | (0.997) | 735093 | 15.0000 | 14.85 |
| 71 Chrysene | 228 | 23.392 | 23.392 | (1.002) | 701968 | 5.00000 | 4.650 |
| 72 bis(2-Ethylhexyl)phthalate | 149 | 23.407 | 23.407 | (0.959) | 463346 | 5.00000 | 4.512 |
| * 134 Di-n-octylphthalate-d4 | 153 | 24.413 | 24.413 | (1.000) | 700191 | 4.00000 | |
| 73 Di-n-octylphthalate | 149 | 24.429 | 24.429 | (1.001) | 851570 | 5.00000 | 4.647 |
| 74 Benzo(b)fluoranthene | 252 | 25.242 | 25.242 | (0.970) | 842815 | 5.00000 | 5.210 |
| 75 Benzo(k)fluoranthene | 252 | 25.288 | 25.288 | (0.972) | 792795 | 5.00000 | 4.826 |
| 76 Benzo(a)pyrene | 252 | 25.908 | 25.908 | (0.996) | 733314 | 5.00000 | 5.070 |
| * 77 Perylene-d12 | 264 | 26.024 | 26.024 | (1.000) | 499049 | 4.00000 | |
| 78 Indeno(1,2,3-cd)pyrene | 276 | 28.769 | 28.769 | (1.105) | 903334 | 5.00000 | 4.909 |
| 79 Dibenzo(a,h)anthracene | 278 | 28.800 | 28.800 | (1.107) | 760281 | 5.00000 | 4.977 |
| 80 Benzo(g,h,i)perylene | 276 | 29.577 | 29.577 | (1.137) | 785829 | 5.00000 | 4.935 |
| 90 N-Nitrosodimethylamine | 74 | 4.673 | 4.673 | (0.514) | 218948 | 10.0000 | 9.266 |
| 91 Aniline | 93 | 8.543 | 8.543 | (0.940) | 496907 | 10.0000 | 9.605 |
| 93 Benzidine | 184 | 20.945 | 20.945 | (0.897) | 524941 | 10.0000 | 7.266 |
| 103 Pyridine | 79 | 4.704 | 4.704 | (0.518) | 344839 | 10.0000 | 9.502 |
| 105 1-methylnaphthalene | 142 | 13.235 | 13.235 | (1.144) | 407581 | 5.00000 | 5.067 |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77 | 16.630 | 16.630 | (1.095) | 430910 | 5.00000 | 4.582 |

| Compounds | QUANT SIG | | | | | | AMOUNTS | |
|-------------------------------|-----------|--|--------|--------|---------|----------|--------------------|-------------------|
| | MASS | | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| 187 Total Benzofluoranthenes | 252 | | 25.288 | 25.288 | (0.972) | 1560897 | 10.0000 | 9.994 |
| 120 2,3,4,6-Tetrachlorophenol | 232 | | 15.935 | 15.935 | (1.049) | 171535 | 5.00000 | 6.195 |

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 22-MAR-2023
 Lab File ID: NT1003222302.D Calibration Time: 12:00
 Lab Smp Id: SLC0397-ICV1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt10.i\20230322.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 122478 | 61239 | 244956 | 122478 | 0.00 |
| 27 Naphthalene-d8 | 459261 | 229631 | 918522 | 459261 | 0.00 |
| 42 Acenaphthene-d10 | 264106 | 132053 | 528212 | 264106 | 0.00 |
| 59 Phenanthrene-d10 | 503255 | 251628 | 1006510 | 503255 | 0.00 |
| 69 Chrysene-d12 | 437735 | 218868 | 875470 | 437735 | 0.00 |
| 134 Di-n-octylphthala | 700191 | 350096 | 1400382 | 700191 | 0.00 |
| 77 Perylene-d12 | 499049 | 249525 | 998098 | 499049 | 0.00 |

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

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

REVIEW SUMMARY FOR FILE - NT1003222302.D

Lab ID: SLC0397-ICV1
nt10.i, 20230322.b\ABN.m, 22-MAR-2023 17:42

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

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

NONE

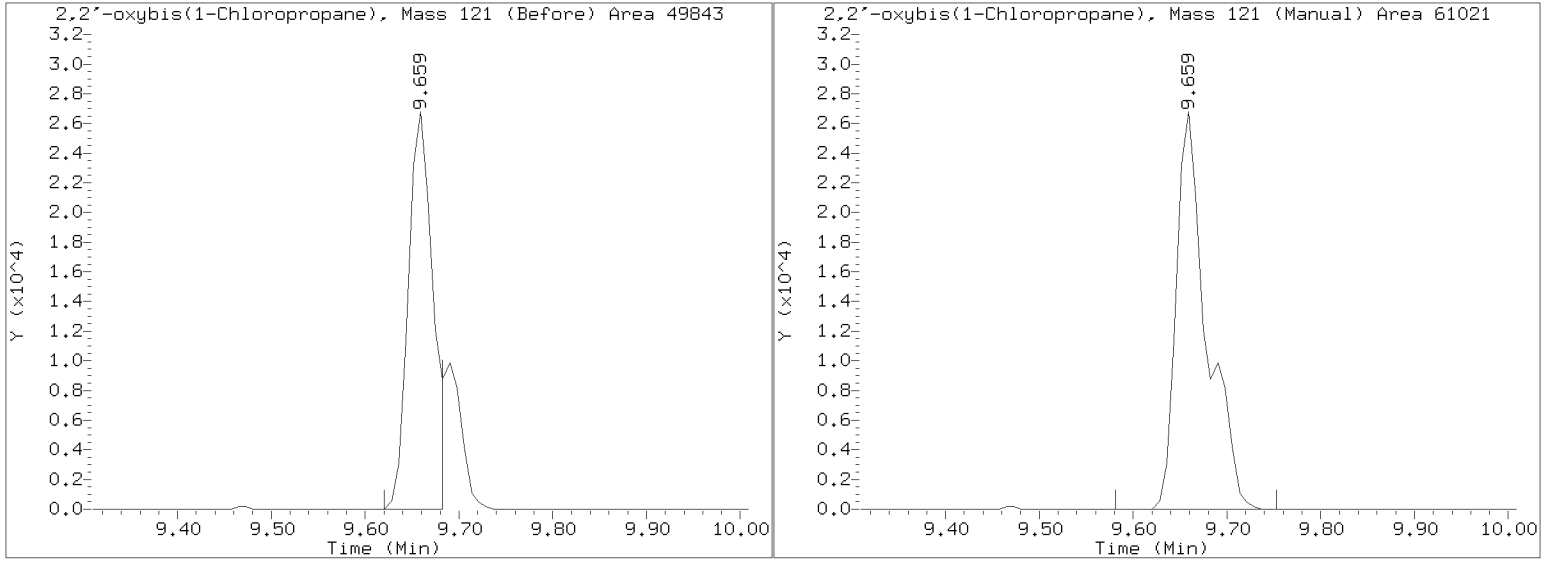
No RRT check. Ccal file.

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

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230322.b/NT1003222302.D
Injection Date: 22-MAR-2023 17:42
Lab ID: SLC0397-ICV1 Client ID:
Report Date: 03/25/2023 07:55



Q-FLAG SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230322.b

Instrument: nt10.i Date: 22-MAR-2023 Method: 20230322.b\ABN.m

INITIAL CAL: 15-MAR-2023

| Compound | %RSD or R ² |
|------------|------------------------|
| ----- | |
| NO Q-FLAGS | |
| ----- | |

ICV CAL: NT1003222302.D 22-MAR-2023 17:42

| Compound | %D |
|---------------------------|-------|
| ----- | |
| Benzidine | -27.3 |
| 2,3,4,6-Tetrachlorophenol | 23.9 |
| 2,4,6-Tribromophenol | 23.3 |
| ----- | |



INITIAL CALIBRATION CHECK
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: NT10

Calibration: GC00046

Lab File ID: NT1003222317.D

Calibration Date: 03/15/2023

Sequence: SLC0397

Injection Date: 03/23/23

Lab Sample ID: SLC0397-ICV2

Injection Time: 03:15

Sequence Name: ABN 5

| COMPOUND | TYPE | CONC. (ug/mL) | | RESPONSE FACTOR | | | % DRIFT/DIFF | |
|-----------------------------|------|---------------|------|-----------------|-----------|-----|--------------|-------|
| | | STD | ICV | ICAL | ICV | MIN | ICV | LIMIT |
| Phenol | A | 5.0000 | 4.7 | 1.6490140 | 1.5509600 | | -5.9 | +/-20 |
| 4-Methylphenol | A | 5.0000 | 4.9 | 1.2665770 | 1.2536180 | | -1.0 | +/-20 |
| Naphthalene | A | 5.0000 | 4.8 | 1.0596590 | 1.0159230 | | -4.1 | +/-20 |
| 2-Methylnaphthalene | A | 5.0000 | 5.1 | 0.7647129 | 0.7838136 | | 2.5 | +/-20 |
| Acenaphthylene | A | 5.0000 | 4.9 | 1.9964080 | 1.9529170 | | -2.2 | +/-20 |
| Dimethylphthalate | A | 5.0000 | 5.1 | 1.2994310 | 1.3204790 | | 1.6 | +/-20 |
| Acenaphthene | A | 5.0000 | 4.8 | 1.2333460 | 1.1876670 | | -3.7 | +/-20 |
| Dibenzofuran | A | 5.0000 | 4.8 | 1.8187540 | 1.7631990 | | -3.1 | +/-20 |
| Fluorene | A | 5.0000 | 5.0 | 1.4308680 | 1.4295500 | | -0.1 | +/-20 |
| Phenanthrene | A | 5.0000 | 4.9 | 1.0907130 | 1.0632580 | | -2.5 | +/-20 |
| Anthracene | A | 5.0000 | 5.1 | 1.0462760 | 1.0708350 | | 2.3 | +/-20 |
| Fluoranthene | A | 5.0000 | 4.4 | 1.6072690 | 1.4043260 | | -12.6 | +/-20 |
| Pyrene | A | 5.0000 | 4.9 | 1.6487720 | 1.5993440 | | -3.0 | +/-20 |
| Butylbenzylphthalate | A | 5.0000 | 5.1 | 0.5292894 | 0.6133943 | | 2.6 | +/-20 |
| Benzo(a)anthracene | A | 5.0000 | 5.0 | 1.4118770 | 1.4149760 | | 0.2 | +/-20 |
| Chrysene | A | 5.0000 | 4.7 | 1.3793780 | 1.3021760 | | -5.6 | +/-20 |
| bis(2-Ethylhexyl)phthalate | A | 5.0000 | 4.5 | 0.5248968 | 0.5293315 | | -9.8 | +/-20 |
| Benzo(a)fluoranthene, Total | A | 10.0000 | 10.0 | 1.2519020 | 1.2529800 | | 0.1 | +/-20 |
| Benzo(a)pyrene | A | 5.0000 | 5.2 | 1.1592370 | 1.1980280 | | 3.3 | +/-20 |
| Indeno(1,2,3-cd)pyrene | A | 5.0000 | 4.6 | 1.4748270 | 1.3624220 | | -7.6 | +/-20 |
| Dibenzo(a,h)anthracene | A | 5.0000 | 4.7 | 1.2244340 | 1.1463490 | | -6.4 | +/-20 |
| Benzo(g,h,i)perylene | A | 5.0000 | 4.4 | 1.2763410 | 1.1219030 | | -12.1 | +/-20 |
| 2-Fluorophenol | A | 7.5000 | 7.52 | 1.2096460 | 1.2125390 | | 0.2 | +/-20 |
| Phenol-d5 | A | 7.5000 | 7.43 | 1.5868760 | 1.5719500 | | -0.9 | +/-20 |
| 2-Chlorophenol-d4 | A | 7.5000 | 7.56 | 1.3550800 | 1.3664900 | | 0.8 | +/-20 |
| 1,2-Dichlorobenzene-d4 | A | 5.0000 | 4.89 | 0.9731556 | 0.9507525 | | -2.3 | +/-20 |
| Nitrobenzene-d5 | A | 5.0000 | 4.83 | 0.4037447 | 0.3900038 | | -3.4 | +/-20 |
| 2-Fluorobiphenyl | A | 5.0000 | 4.91 | 1.5822890 | 1.5528510 | | -1.9 | +/-20 |
| 2,4,6-Tribromophenol | A | 7.5000 | 8.92 | 0.1585901 | 0.2211559 | | 18.9 | +/-20 |
| p-Terphenyl-d14 | A | 5.0000 | 4.71 | 1.2381950 | 1.1656830 | | -5.9 | +/-20 |

* Values outside of QC limits



INITIAL CALIBRATION CHECK
EPA 8270E

| | | | |
|----------------|----------------------------------|-------------------|------------------------|
| Laboratory: | <u>Analytical Resources, LLC</u> | SDG: | <u>23A0180</u> |
| Client: | <u>Anchor QEA, LLC</u> | Project: | <u>AOC5 MR Phase 1</u> |
| Instrument ID: | <u>NT10</u> | Calibration: | <u>GC00046</u> |
| Lab File ID: | <u>NT1003222317.D</u> | Calibration Date: | <u>03/15/2023</u> |
| Sequence: | <u>SLC0397</u> | Injection Date: | <u>03/23/23</u> |
| Lab Sample ID: | <u>SLC0397-ICV2</u> | Injection Time: | <u>03:15</u> |
| Sequence Name: | <u>ABN 5</u> | | |

| COMPOUND | TYPE | CONC. (ug/mL) | | RESPONSE FACTOR | | | % DRIFT/DIFF | |
|------------------------|------|---------------|-----|-----------------|--------|-----|--------------|-------|
| | | STD | ICV | ICAL | ICV | MIN | ICV | LIMIT |
| 1,4-Dichlorobenzene-d4 | A | 4.0000 | 4.0 | 42885.5000 | 1.0000 | | | |
| Naphthalene-d8 | A | 4.0000 | 4.0 | 156116.5000 | 1.0000 | | | |
| Acenaphthene-d10 | A | 4.0000 | 4.0 | 84306.5000 | 1.0000 | | | |
| Phenanthrene-d10 | A | 4.0000 | 4.0 | 143212.3000 | 1.0000 | | | |
| Chrysene-d12 | A | 4.0000 | 4.0 | 86767.0000 | 1.0000 | | | |
| Di-n-Octylphthalate-d4 | A | 4.0000 | 4.0 | 125079.3000 | 1.0000 | | | |
| Perylene-d12 | A | 4.0000 | 4.0 | 105387.3000 | 1.0000 | | | |

* Values outside of QC limits

Data File: \\target\share\chem3\nt10.1\20230322.16\NT1003222317.D

Date: 23-MAR-2023 03:15

Client ID:

Sample Info: SLC0397-ICW2

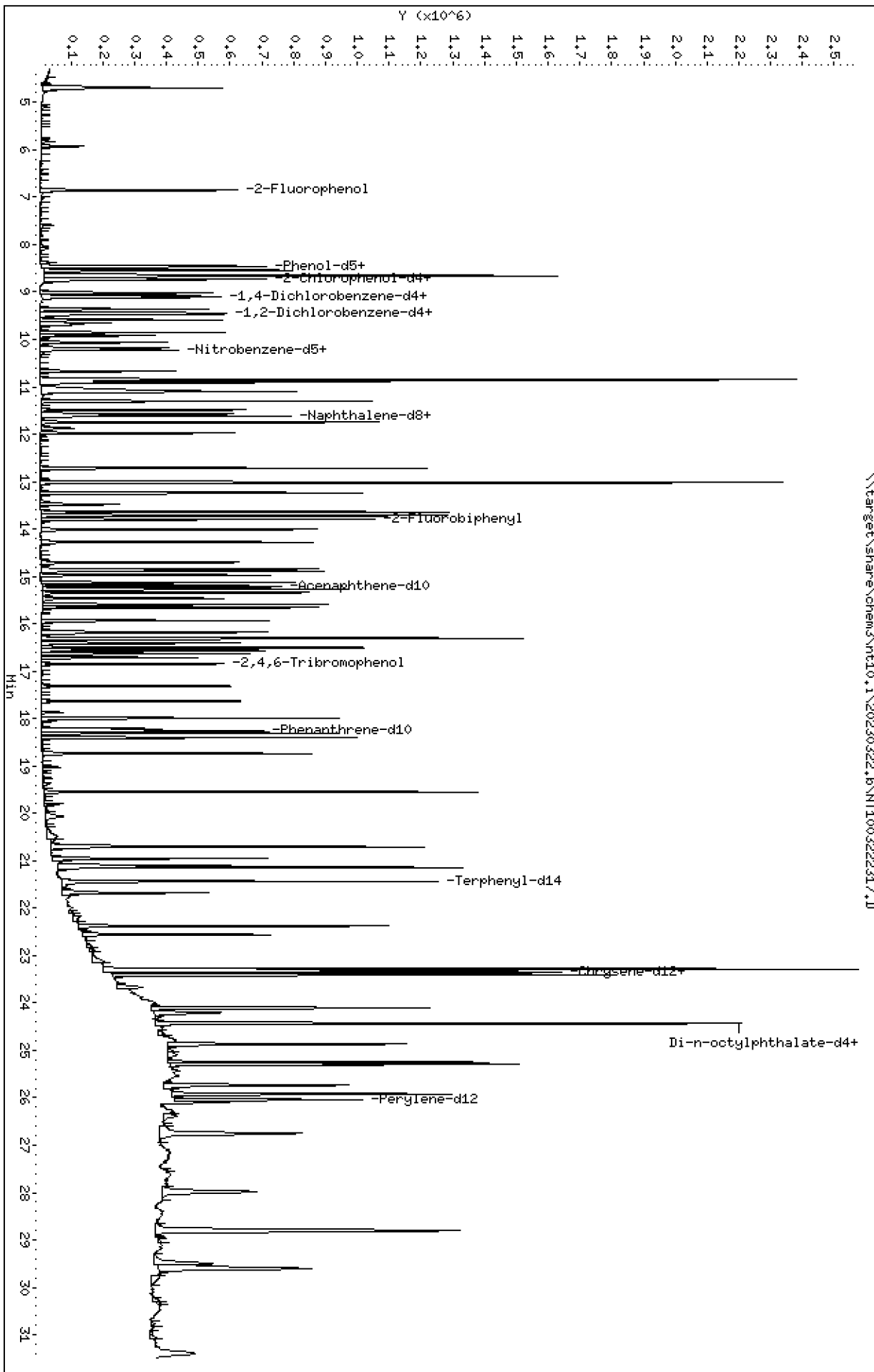
Instrument: nt10.1

Operator: VTS

Column diameter: 0.25

Column phase: ZB-5msi

\\target\share\chem3\nt10.1\20230322.16\NT1003222317.D



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230322.b\NT1003222317.D
 Lab Smp Id: SLC0397-ICV2
 Inj Date : 23-MAR-2023 03:15
 Operator : VTS
 Smp Info : SLC0397-ICV2
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt10.i\20230322.b\ABN.m
 Meth Date : 25-Mar-2023 10:11 van
 Cal Date : 16-MAR-2023 00:22
 Als bottle: 2
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: VANS-201906

Inst ID: nt10.i
 Quant Type: ISTD
 Cal File: NT10031508.D
 Continuing Calibration Sample
 Compound Sublist: ICAL.sub

| Compounds | QUANT | SIG | RT | EXP RT | REL RT | RESPONSE | AMOUNTS | |
|---------------------------------|-------|-----|--------|--------|---------|----------|--------------------|-------------------|
| | | | | | | | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| \$ 1 2-Fluorophenol | 112 | | 6.851 | 6.851 | (0.754) | 312842 | 7.50000 | 7.518 |
| \$ 2 Phenol-d5 | 99 | | 8.450 | 8.450 | (0.930) | 405572 | 7.50000 | 7.429 |
| 3 Phenol | 94 | | 8.474 | 8.474 | (0.933) | 266771 | 5.00000 | 4.703 |
| \$ 5 2-Chlorophenol-d4 | 132 | | 8.721 | 8.721 | (0.960) | 352562 | 7.50000 | 7.563 |
| 4 Bis(2-Chloroethyl)ether | 93 | | 8.628 | 8.628 | (0.950) | 194070 | 5.00000 | 4.613 |
| 6 2-Chlorophenol | 128 | | 8.752 | 8.752 | (0.963) | 236154 | 5.00000 | 4.864 |
| 7 1,3-Dichlorobenzene | 146 | | 9.022 | 9.022 | (0.993) | 242288 | 5.00000 | 4.720 |
| * 8 1,4-Dichlorobenzene-d4 | 152 | | 9.085 | 9.085 | (1.000) | 137603 | 4.00000 | |
| 9 1,4-Dichlorobenzene | 146 | | 9.116 | 9.116 | (1.003) | 239844 | 5.00000 | 4.837 |
| \$ 10 1,2-Dichlorobenzene-d4 | 152 | | 9.441 | 9.441 | (1.039) | 163533 | 5.00000 | 4.885 |
| 12 1,2-Dichlorobenzene | 146 | | 9.473 | 9.473 | (1.043) | 235732 | 5.00000 | 4.831 |
| 11 Benzyl alcohol | 108 | | 9.356 | 9.356 | (1.030) | 140125 | 5.00000 | 5.263 |
| 14 2,2'-oxybis(1-Chloropropane) | 121 | | 9.659 | 9.659 | (1.063) | 66581 | 5.00000 | 4.646 (M) |
| 13 2-Methylphenol | 108 | | 9.589 | 9.589 | (1.056) | 198967 | 5.00000 | 4.811 |
| 17 Hexachloroethane | 117 | | 10.063 | 10.063 | (1.108) | 80360 | 5.00000 | 3.950 |
| 16 N-Nitroso-di-n-propylamine | 70 | | 9.915 | 9.915 | (1.091) | 147890 | 5.00000 | 4.529 |
| 15 4-Methylphenol | 108 | | 9.861 | 9.861 | (1.085) | 215627 | 5.00000 | 4.949 |
| \$ 18 Nitrobenzene-d5 | 82 | | 10.179 | 10.179 | (0.880) | 241114 | 5.00000 | 4.830 |
| 19 Nitrobenzene | 77 | | 10.218 | 10.218 | (0.883) | 223586 | 5.00000 | 4.564 |
| 20 Isophorone | 82 | | 10.668 | 10.668 | (0.922) | 302156 | 5.00000 | 4.821 |
| 21 2-Nitrophenol | 139 | | 10.850 | 10.850 | (0.938) | 154114 | 5.00000 | 6.425 |
| 22 2,4-Dimethylphenol | 107 | | 10.901 | 10.901 | (0.942) | 372917 | 10.0000 | 8.287 |
| 23 Bis(2-Chloroethoxy)methane | 93 | | 11.096 | 11.096 | (0.959) | 196114 | 5.00000 | 4.684 |
| 24 Benzoic acid | 105 | | 11.105 | 11.105 | (0.960) | 558834 | 20.0000 | 21.26 |
| 25 2,4-Dichlorophenol | 162 | | 11.308 | 11.308 | (0.977) | 424316 | 10.0000 | 11.78 |
| 26 1,2,4-Trichlorobenzene | 180 | | 11.487 | 11.487 | (0.993) | 207972 | 5.00000 | 4.920 |
| * 27 Naphthalene-d8 | 136 | | 11.572 | 11.572 | (1.000) | 494588 | 4.00000 | |
| 28 Naphthalene | 128 | | 11.618 | 11.618 | (1.004) | 628079 | 5.00000 | 4.794 |
| 29 4-Chloroaniline | 127 | | 11.750 | 11.750 | (1.015) | 520689 | 10.0000 | 10.19 |
| 30 Hexachlorobutadiene | 225 | | 11.981 | 11.981 | (1.035) | 130095 | 5.00000 | 5.253 |
| 31 4-Chloro-3-methylphenol | 107 | | 12.717 | 12.717 | (1.099) | 391915 | 10.0000 | 10.05 |
| 32 2-Methylnaphthalene | 142 | | 13.018 | 13.018 | (1.125) | 484581 | 5.00000 | 5.125 |
| 33 Hexachlorocyclopentadiene | 237 | | 13.483 | 13.483 | (0.887) | 69558 | 10.0000 | 2.697 |

| Compounds | QUANT SIG | | | | | AMOUNTS | |
|-----------------------------------|-----------|--------|--------|---------|----------|--------------------|-------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| 34 2,4,6-Trichlorophenol | 196 | 13.638 | 13.638 | (0.897) | 307010 | 10.0000 | 11.15 |
| 35 2,4,5-Trichlorophenol | 196 | 13.715 | 13.715 | (0.902) | 324659 | 10.0000 | 10.61 |
| § 36 2-Fluorobiphenyl | 172 | 13.800 | 13.800 | (0.908) | 540924 | 5.00000 | 4.907 |
| 37 2-Chloronaphthalene | 162 | 14.009 | 14.009 | (0.922) | 439787 | 5.00000 | 4.927 |
| 38 2-Nitroaniline | 65 | 14.272 | 14.272 | (0.939) | 232142 | 10.0000 | 9.259 |
| 39 Dimethylphthalate | 163 | 14.706 | 14.706 | (0.967) | 459979 | 5.00000 | 5.081 |
| 40 Acenaphthylene | 152 | 14.884 | 14.884 | (0.979) | 680284 | 5.00000 | 4.891 |
| 41 2,6-Dinitrotoluene | 165 | 14.845 | 14.845 | (0.977) | 215192 | 10.0000 | 11.00 |
| * 42 Acenaphthene-d10 | 164 | 15.201 | 15.201 | (1.000) | 278674 | 4.00000 | |
| 43 3-Nitroaniline | 138 | 15.131 | 15.131 | (0.995) | 228241 | 10.0000 | 10.34 |
| 44 Acenaphthene | 153 | 15.263 | 15.263 | (1.004) | 413715 | 5.00000 | 4.815 |
| 45 2,4-Dinitrophenol | 184 | 15.348 | 15.348 | (1.010) | 243819 | 20.0000 | 19.84 |
| 46 Dibenzofuran | 168 | 15.595 | 15.595 | (1.026) | 614197 | 5.00000 | 4.847 |
| 47 4-Nitrophenol | 109 | 15.464 | 15.464 | (1.017) | 114794 | 10.0000 | 8.311 |
| 48 2,4-Dinitrotoluene | 165 | 15.657 | 15.657 | (1.030) | 300261 | 10.0000 | 10.32 |
| 50 Diethylphthalate | 149 | 16.175 | 16.175 | (1.064) | 517008 | 5.00000 | 5.821 |
| 49 Fluorene | 166 | 16.314 | 16.314 | (1.073) | 497973 | 5.00000 | 4.995 |
| 51 4-Chlorophenyl-phenylether | 204 | 16.306 | 16.306 | (1.073) | 238252 | 5.00000 | 5.026 |
| 52 4-Nitroaniline | 138 | 16.406 | 16.406 | (1.079) | 214813 | 10.0000 | 10.80 |
| 53 4,6-Dinitro-2-methylphenol | 198 | 16.507 | 16.507 | (0.904) | 309237 | 20.0000 | 19.67 |
| 54 N-Nitrosodiphenylamine | 169 | 16.561 | 16.561 | (0.907) | 322121 | 5.00000 | 4.731 |
| § 55 2,4,6-Tribromophenol | 330 | 16.846 | 16.846 | (1.108) | 115557 | 7.50000 | 8.918 |
| 56 4-Bromophenyl-phenylether | 248 | 17.316 | 17.316 | (0.948) | 153988 | 5.00000 | 5.407 |
| 57 Hexachlorobenzene | 284 | 17.634 | 17.634 | (0.966) | 160413 | 5.00000 | 5.372 |
| 58 Pentachlorophenol | 266 | 17.990 | 17.990 | (0.985) | 195336 | 10.0000 | 10.83 |
| * 59 Phenanthrene-d10 | 188 | 18.260 | 18.260 | (1.000) | 509229 | 4.00000 | |
| 60 Phenanthrene | 178 | 18.307 | 18.307 | (1.003) | 676802 | 5.00000 | 4.874 |
| 61 Anthracene | 178 | 18.400 | 18.400 | (1.008) | 681625 | 5.00000 | 5.117 |
| 62 Carbazole | 167 | 18.732 | 18.732 | (1.026) | 607912 | 5.00000 | 5.093 |
| 63 Di-n-butylphthalate | 149 | 19.545 | 19.545 | (1.070) | 838174 | 5.00000 | 5.252 |
| 64 Fluoranthene | 202 | 20.713 | 20.713 | (0.887) | 811474 | 5.00000 | 4.369 |
| 65 Pyrene | 202 | 21.139 | 21.139 | (0.905) | 924163 | 5.00000 | 4.850 |
| § 66 Terphenyl-d14 | 244 | 21.433 | 21.433 | (0.918) | 673577 | 5.00000 | 4.707 |
| 67 Butylbenzylphthalate | 149 | 22.377 | 22.377 | (0.958) | 354443 | 5.00000 | 5.129 |
| 68 Benzo(a)anthracene | 228 | 23.322 | 23.322 | (0.999) | 817628 | 5.00000 | 5.011 |
| * 69 Chrysene-d12 | 240 | 23.353 | 23.353 | (1.000) | 462271 | 4.00000 | |
| 70 3,3'-Dichlorobenzidine | 252 | 23.283 | 23.283 | (0.997) | 867437 | 15.0000 | 16.60 |
| 71 Chrysene | 228 | 23.399 | 23.399 | (1.002) | 752448 | 5.00000 | 4.720 |
| 72 bis(2-Ethylhexyl)phthalate | 149 | 23.415 | 23.415 | (0.959) | 517800 | 5.00000 | 4.511 |
| * 134 Di-n-octylphthalate-d4 | 153 | 24.421 | 24.421 | (1.000) | 782572 | 4.00000 | |
| 73 Di-n-octylphthalate | 149 | 24.437 | 24.437 | (1.001) | 938667 | 5.00000 | 4.583 |
| 74 Benzo(b)fluoranthene | 252 | 25.250 | 25.250 | (0.970) | 883434 | 5.00000 | 4.945 |
| 75 Benzo(k)fluoranthene | 252 | 25.296 | 25.296 | (0.971) | 919032 | 5.00000 | 5.066 |
| 76 Benzo(a)pyrene | 252 | 25.923 | 25.923 | (0.996) | 825371 | 5.00000 | 5.167 |
| * 77 Perylene-d12 | 264 | 26.040 | 26.040 | (1.000) | 551153 | 4.00000 | |
| 78 Indeno(1,2,3-cd)pyrene | 276 | 28.793 | 28.793 | (1.106) | 938629 | 5.00000 | 4.619 |
| 79 Dibenzo(a,h)anthracene | 278 | 28.816 | 28.816 | (1.107) | 789767 | 5.00000 | 4.681 |
| 80 Benzo(g,h,i)perylene | 276 | 29.601 | 29.601 | (1.137) | 772925 | 5.00000 | 4.395 |
| 90 N-Nitrosodimethylamine | 74 | 4.665 | 4.665 | (0.514) | 243140 | 10.0000 | 9.158 |
| 91 Aniline | 93 | 8.543 | 8.543 | (0.940) | 538351 | 10.0000 | 9.262 |
| 93 Benzidine | 184 | 20.953 | 20.953 | (0.897) | 449114 | 10.0000 | 5.886 |
| 103 Pyridine | 79 | 4.696 | 4.696 | (0.517) | 371071 | 10.0000 | 9.101 |
| 105 1-methylnaphthalene | 142 | 13.235 | 13.235 | (1.144) | 436621 | 5.00000 | 5.040 |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77 | 16.630 | 16.630 | (1.094) | 424023 | 5.00000 | 4.274 |

| Compounds | QUANT SIG | | AMOUNTS | | | | | |
|-------------------------------|-----------|--|---------|--------|---------|----------|--------------------|-------------------|
| | MASS | | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| 187 Total Benzofluoranthenes | 252 | | 25.296 | 25.296 | (0.971) | 1726459 | 10.0000 | 10.01 |
| 120 2,3,4,6-Tetrachlorophenol | 232 | | 15.935 | 15.935 | (1.048) | 186459 | 5.00000 | 6.373 |

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 22-MAR-2023
 Lab File ID: NT1003222317.D Calibration Time: 17:42
 Lab Smp Id: SLC0397-ICV2
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt10.i\20230322.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 137603 | 68802 | 275206 | 137603 | 0.00 |
| 27 Naphthalene-d8 | 494588 | 247294 | 989176 | 494588 | 0.00 |
| 42 Acenaphthene-d10 | 278674 | 139337 | 557348 | 278674 | 0.00 |
| 59 Phenanthrene-d10 | 509229 | 254615 | 1018458 | 509229 | 0.00 |
| 69 Chrysene-d12 | 462271 | 231136 | 924542 | 462271 | 0.00 |
| 134 Di-n-octylphthala | 782572 | 391286 | 1565144 | 782572 | 0.00 |
| 77 Perylene-d12 | 551153 | 275577 | 1102306 | 551153 | 0.00 |

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

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

REVIEW SUMMARY FOR FILE - NT1003222317.D

Lab ID: SLC0397-ICV2
nt10.i, 20230322.b\ABN.m, 23-MAR-2023 03:15

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

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

NONE

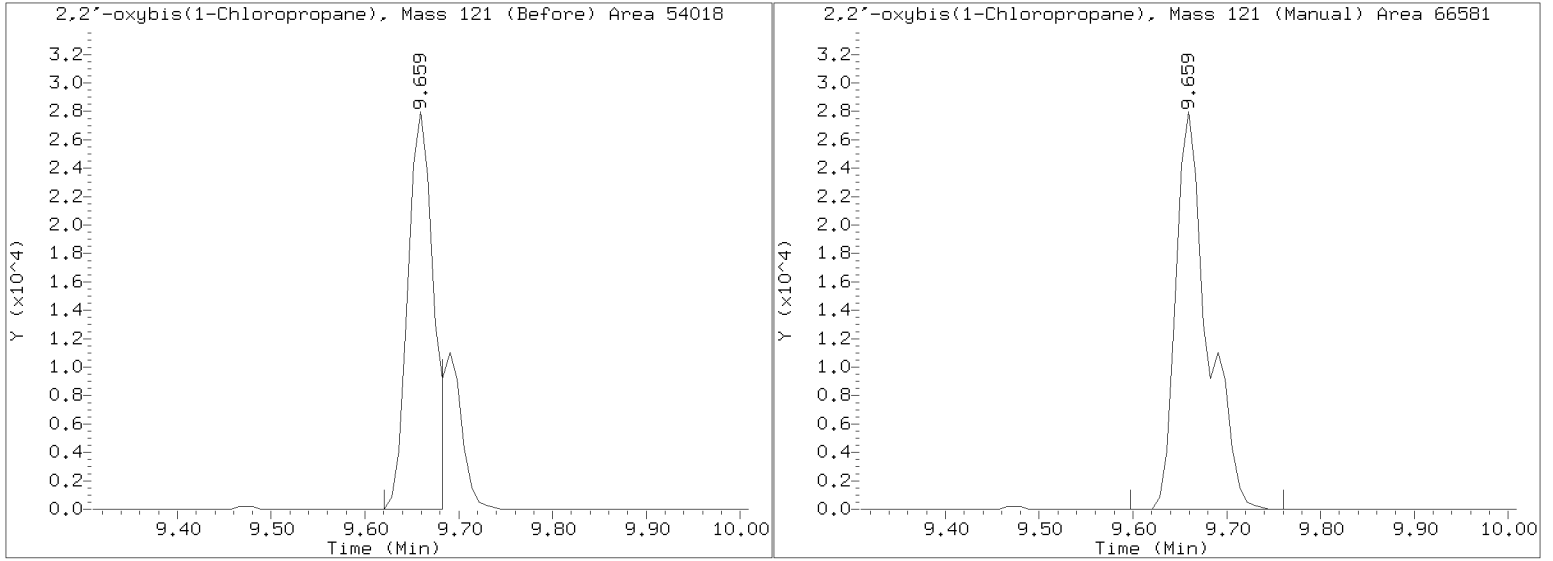
No RRT check. Ccal file.

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

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230322.b/NT1003222317.D
Injection Date: 23-MAR-2023 03:15
Lab ID:SLC0397-ICV2 Client ID:
Report Date: 03/25/2023 10:11



Q-FLAG SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230322.b

Instrument: nt10.i Date: 23-MAR-2023 Method: 20230322.b\ABN.m

INITIAL CAL: 15-MAR-2023

| Compound | %RSD or R ² |
|------------|------------------------|
| ----- | |
| NO Q-FLAGS | |
| ----- | |

ICV CAL: NT1003222317.D 23-MAR-2023 03:15

| Compound | %D |
|---------------------------|-------|
| ----- | |
| Hexachloroethane | -21.0 |
| 2-Nitrophenol | 28.5 |
| Hexachlorocyclopentadiene | -73.0 |
| Benzidine | -41.1 |
| 2,3,4,6-Tetrachlorophenol | 27.5 |
| ----- | |



CONTINUING CALIBRATION CHECK
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: NT14

Calibration: GC00033

Lab File ID: NT1423022856.D

Calibration Date: 02/28/2023

Sequence: SLB0374

Injection Date: 03/02/23

Lab Sample ID: SLB0374-CCV1

Injection Time: 10:41

Sequence Name: Calibration Check

| COMPOUND | TYPE | CONC. (ug/mL) | | RESPONSE FACTOR (RRF) | | | % DRIFT/DIFF | |
|------------------------------|------|---------------|------|-----------------------|-----------|-----|--------------|---------|
| | | STD | CCV | ICAL | CCV | MIN | CCV | LIMIT |
| Phenol | A | 5.0000 | 5.6 | 1.8373500 | 2.0724900 | | 12.8 | +/-50 |
| bis(2-chloroethyl) ether | A | 5.0000 | 5.3 | 1.5312550 | 1.3207170 | | 5.8 | +/-50 |
| 2-Chlorophenol | A | 5.0000 | 5.6 | 1.3533690 | 1.5049840 | | 11.2 | +/-50 |
| 1,3-Dichlorobenzene | A | 5.0000 | 5.0 | 1.4914740 | 1.4868110 | | -0.3 | +/-50 |
| 1,4-Dichlorobenzene | A | 5.0000 | 4.9 | 1.4740600 | 1.4461440 | | -1.9 | +/-50 |
| 1,2-Dichlorobenzene | A | 5.0000 | 5.0 | 1.4134490 | 1.4099940 | | -0.2 | +/-50 |
| Benzyl Alcohol | A | 5.0000 | 5.3 | 0.6439892 | 0.8637229 | | 6.1 | +/-50 |
| 2,2'-Oxybis(1-chloropropane) | A | 5.0000 | 5.2 | 0.3811859 | 0.3980957 | | 4.4 | +/-50 |
| 2-Methylphenol | A | 5.0000 | 5.9 | 1.1607310 | 1.3632370 | | 17.4 | +/-50 |
| Hexachloroethane | A | 5.0000 | 4.9 | 0.5535732 | 0.5439581 | | -1.7 | +/-50 |
| N-Nitroso-di-n-Propylamine | A | 5.0000 | 6.2 | 0.8837751 | 1.0949070 | | 23.9 | +/-50 |
| 4-Methylphenol | A | 5.0000 | 5.2 | 1.1353050 | 1.3872260 | | 4.8 | +/-50 |
| Nitrobenzene | A | 5.0000 | 5.9 | 0.3760061 | 0.4452789 | | 18.4 | +/-50 |
| Isophorone | A | 5.0000 | 5.5 | 0.4996273 | 0.6388989 | | 10.8 | +/-50 |
| 2-Nitrophenol | A | 5.0000 | 5.3 | 0.1467597 | 0.2080718 | | 6.2 | +/-50 |
| 2,4-Dimethylphenol | A | 10.000 | 10.8 | 0.3427845 | 0.3694858 | | 7.8 | +/-50 |
| Bis(2-Chloroethoxy)methane | A | 5.0000 | 5.4 | 0.3780235 | 0.4056194 | | 7.3 | +/-50 |
| 2,4-Dichlorophenol | A | 10.000 | 9.8 | 0.2946235 | 0.3247464 | | -2.0 | +/-50 |
| 1,2,4-Trichlorobenzene | A | 5.0000 | 4.7 | 0.3874001 | 0.3609132 | | -6.8 | +/-50 |
| Naphthalene | A | 5.0000 | 5.0 | 1.0669580 | 1.0749790 | | 0.8 | +/-50 |
| Benzoic acid | A | 20.000 | 26.1 | 0.1358415 | 0.1771627 | | 30.4 | +/-50 |
| 4-Chloroaniline | A | 10.000 | 10.7 | 0.4563565 | 0.4876918 | | 6.9 | +/-50 |
| Hexachlorobutadiene | A | 5.0000 | 4.4 | 0.2363916 | 0.2102666 | | -11.1 | +/-50 |
| 4-Chloro-3-Methylphenol | A | 10.000 | 11.2 | 0.3085482 | 0.3458487 | | 12.1 | +/-50 |
| 2-Methylnaphthalene | A | 5.0000 | 5.1 | 0.7901196 | 0.8045046 | | 1.8 | +/-50 |
| Hexachlorocyclopentadiene | A | 10.000 | 3.3 | 0.3443795 | 0.1375784 | | -67.3 | +/-50 * |
| 2,4,6-Trichlorophenol | A | 10.000 | 10.6 | 0.3907367 | 0.4135882 | | 5.8 | +/-50 |
| 2,4,5-Trichlorophenol | A | 10.000 | 11.1 | 0.4224702 | 0.4696229 | | 11.2 | +/-50 |
| 2-Chloronaphthalene | A | 5.0000 | 5.1 | 1.2480280 | 1.2619350 | | 1.1 | +/-50 |
| 2-Nitroaniline | A | 10.000 | 12.9 | 0.3254949 | 0.4213065 | | 29.4 | +/-50 |
| Acenaphthylene | A | 5.0000 | 5.3 | 1.8312950 | 1.9485640 | | 6.4 | +/-50 |
| Dimethylphthalate | A | 5.0000 | 5.3 | 1.2581570 | 1.3372810 | | 6.3 | +/-50 |
| 2,6-Dinitrotoluene | A | 10.000 | 10.7 | 0.2948315 | 0.3141847 | | 6.6 | +/-50 |

* Values outside of QC limits



CONTINUING CALIBRATION CHECK EPA 8270E

| | |
|--|-------------------------------------|
| Laboratory: <u>Analytical Resources, LLC</u> | SDG: <u>23A0180</u> |
| Client: <u>Anchor QEA, LLC</u> | Project: <u>AOC5 MR Phase 1</u> |
| Instrument ID: <u>NT14</u> | Calibration: <u>GC00033</u> |
| Lab File ID: <u>NT1423022856.D</u> | Calibration Date: <u>02/28/2023</u> |
| Sequence: <u>SLB0374</u> | Injection Date: <u>03/02/23</u> |
| Lab Sample ID: <u>SLB0374-CCV1</u> | Injection Time: <u>10:41</u> |
| Sequence Name: <u>Calibration Check</u> | |

| COMPOUND | TYPE | CONC. (ug/mL) | | RESPONSE FACTOR (RRF) | | | % DRIFT/DIFF | |
|-----------------------------|------|---------------|------|-----------------------|-----------|-----|--------------|---------|
| | | STD | CCV | ICAL | CCV | MIN | CCV | LIMIT |
| Acenaphthene | A | 5.0000 | 5.0 | 1.1724930 | 1.1720810 | | -0.04 | +/-50 |
| 3-Nitroaniline | A | 10.000 | 11.1 | 0.3021810 | 0.3342525 | | 10.6 | +/-50 |
| 2,4-Dinitrophenol | A | 20.000 | 17.6 | 0.1437811 | 0.1711961 | | -11.8 | +/-50 |
| Dibenzofuran | A | 5.0000 | 5.0 | 1.8656210 | 1.8526590 | | -0.7 | +/-50 |
| 4-Nitrophenol | A | 10.000 | 9.6 | 0.1323756 | 0.1467639 | | -4.4 | +/-50 |
| 2,4-Dinitrotoluene | A | 10.000 | 10.4 | 0.4244424 | 0.4408514 | | 3.9 | +/-50 |
| Fluorene | A | 5.0000 | 5.1 | 1.5719010 | 1.5915390 | | 1.2 | +/-50 |
| 4-Chlorophenylphenyl ether | A | 5.0000 | 4.6 | 0.8363665 | 0.7681897 | | -8.2 | +/-50 |
| Diethyl phthalate | A | 5.0000 | 5.5 | 1.1765440 | 1.2952780 | | 10.1 | +/-50 |
| 4-Nitroaniline | A | 10.000 | 10.3 | 0.2995450 | 0.3094579 | | 3.3 | +/-50 |
| 4,6-Dinitro-2-methylphenol | A | 20.000 | 18.8 | 0.0975169 | 0.1264394 | | -5.9 | +/-50 |
| N-Nitrosodiphenylamine | A | 5.0000 | 5.3 | 0.5026629 | 0.5357867 | | 6.6 | +/-50 |
| 4-Bromophenyl phenyl ether | A | 5.0000 | 5.1 | 0.2209900 | 0.2275560 | | 3.0 | +/-50 |
| Hexachlorobenzene | A | 5.0000 | 5.0 | 0.2429692 | 0.2427863 | | -0.08 | +/-50 |
| Pentachlorophenol | A | 10.000 | 10.4 | 0.0938263 | 0.1253227 | | 4.4 | +/-50 |
| Phenanthrene | A | 5.0000 | 4.9 | 1.0640870 | 1.0472740 | | -1.6 | +/-50 |
| Anthracene | A | 5.0000 | 5.4 | 1.0059580 | 1.0791930 | | 7.3 | +/-50 |
| Carbazole | A | 5.0000 | 5.1 | 0.8816605 | 0.9071079 | | 2.9 | +/-50 |
| Di-n-Butylphthalate | A | 5.0000 | 5.6 | 0.9469101 | 1.2423320 | | 11.4 | +/-50 |
| Fluoranthene | A | 5.0000 | 4.8 | 1.5175930 | 1.4560470 | | -4.1 | +/-50 |
| Pyrene | A | 5.0000 | 4.8 | 1.6000330 | 1.5318060 | | -4.3 | +/-50 |
| Butylbenzylphthalate | A | 5.0000 | 5.4 | 0.4562763 | 0.6041908 | | 9.0 | +/-50 |
| Benzo(a)anthracene | A | 5.0000 | 5.4 | 1.3399020 | 1.4585190 | | 8.9 | +/-50 |
| 3,3'-Dichlorobenzidine | A | 15.000 | 19.6 | 0.3826468 | 0.5002255 | | 30.7 | +/-50 |
| Chrysene | A | 5.0000 | 5.1 | 1.2879040 | 1.3016310 | | 1.1 | +/-50 |
| bis(2-Ethylhexyl)phthalate | A | 5.0000 | 4.8 | 0.5161185 | 0.5846081 | | -3.7 | +/-50 |
| Di-n-Octylphthalate | A | 5.0000 | 4.8 | 1.0531830 | 1.0021170 | | -4.8 | +/-50 |
| Benzo(a)fluoranthene, Total | A | 10.000 | 12.6 | 1.2927770 | 1.6256130 | | 25.7 | +/-50 |
| Benzo(a)pyrene | A | 5.0000 | 5.4 | 1.1338150 | 1.2355140 | | 9.0 | +/-50 |
| Indeno(1,2,3-cd)pyrene | A | 5.0000 | 2.3 | 1.4272450 | 0.6446158 | | -54.8 | +/-50 * |
| Dibenzo(a,h)anthracene | A | 5.0000 | 2.4 | 1.2122070 | 0.5915245 | | -51.2 | +/-50 * |
| Benzo(g,h,i)perylene | A | 5.0000 | 1.7 | 1.2448130 | 0.4323744 | | -65.3 | +/-50 * |
| 1-Methylnaphthalene | A | 5.0000 | 5.0 | 0.7274101 | 0.7332797 | | 0.8 | +/-50 |
| 2-Fluorophenol | A | 7.5000 | 9.19 | 1.0846110 | 1.3285150 | | 22.5 | +/-50 |

* Values outside of QC limits



CONTINUING CALIBRATION CHECK
EPA 8270E

| | | | |
|----------------|----------------------------------|-------------------|------------------------|
| Laboratory: | <u>Analytical Resources, LLC</u> | SDG: | <u>23A0180</u> |
| Client: | <u>Anchor QEA, LLC</u> | Project: | <u>AOC5 MR Phase 1</u> |
| Instrument ID: | <u>NT14</u> | Calibration: | <u>GC00033</u> |
| Lab File ID: | <u>NT1423022856.D</u> | Calibration Date: | <u>02/28/2023</u> |
| Sequence: | <u>SLB0374</u> | Injection Date: | <u>03/02/23</u> |
| Lab Sample ID: | <u>SLB0374-CCV1</u> | Injection Time: | <u>10:41</u> |
| Sequence Name: | <u>Calibration Check</u> | | |

| COMPOUND | TYPE | CONC. (ug/mL) | | RESPONSE FACTOR (RRF) | | | % DRIFT/DIFF | |
|------------------------|------|---------------|------|-----------------------|-----------|-----|--------------|-------|
| | | STD | CCV | ICAL | CCV | MIN | CCV | LIMIT |
| Phenol-d5 | A | 7.5000 | 9.00 | 1.5399100 | 1.8488250 | | 20.1 | +/-50 |
| 2-Chlorophenol-d4 | A | 7.5000 | 7.89 | 1.3093910 | 1.3774340 | | 5.2 | +/-50 |
| 1,2-Dichlorobenzene-d4 | A | 5.0000 | 4.92 | 0.9857584 | 0.9707841 | | -1.5 | +/-50 |
| Nitrobenzene-d5 | A | 5.0000 | 5.99 | 0.3912861 | 0.4683999 | | 19.7 | +/-50 |
| 2-Fluorobiphenyl | A | 5.0000 | 5.02 | 1.5568580 | 1.5624360 | | 0.4 | +/-50 |
| 2,4,6-Tribromophenol | A | 7.5000 | 7.45 | 0.1850894 | 0.2204114 | | -0.6 | +/-50 |
| p-Terphenyl-d14 | A | 5.0000 | 4.53 | 1.2319340 | 1.1164280 | | -9.4 | +/-50 |

* Values outside of QC limits

* Values outside of QC limits

Data File: \\target\share\chem3\nt14,1\20230228,16\NT1423022856.D

Date : 02-MAR-2023 10:41

Client ID:

Sample Info: SLB0374-CCV7

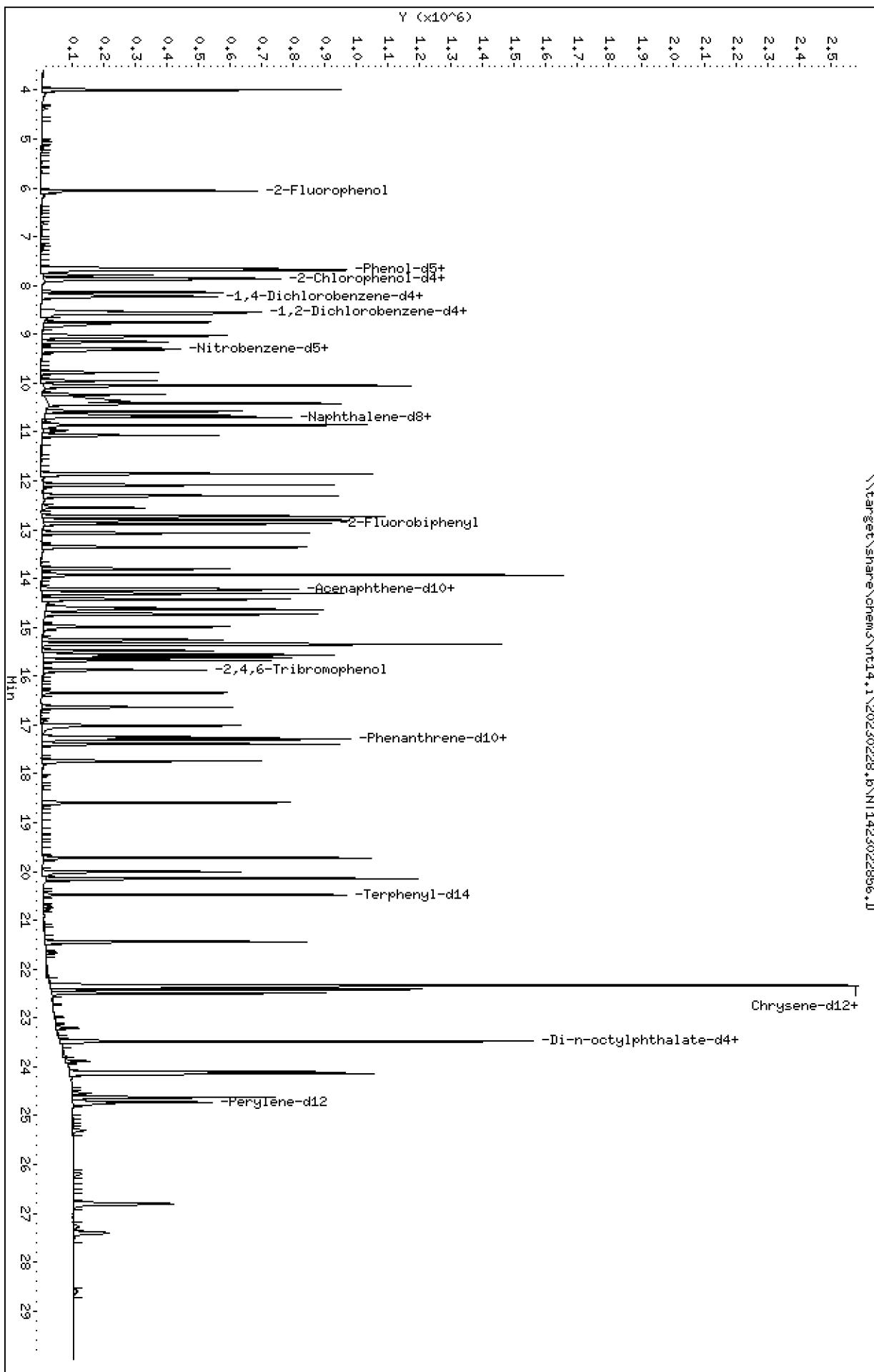
Column phase: ZB-5msi

Instrument: nt14,1

Operator: JGR

Column diameter: 0.25

\\target\share\chem3\nt14,1\20230228,16\NT1423022856.D



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

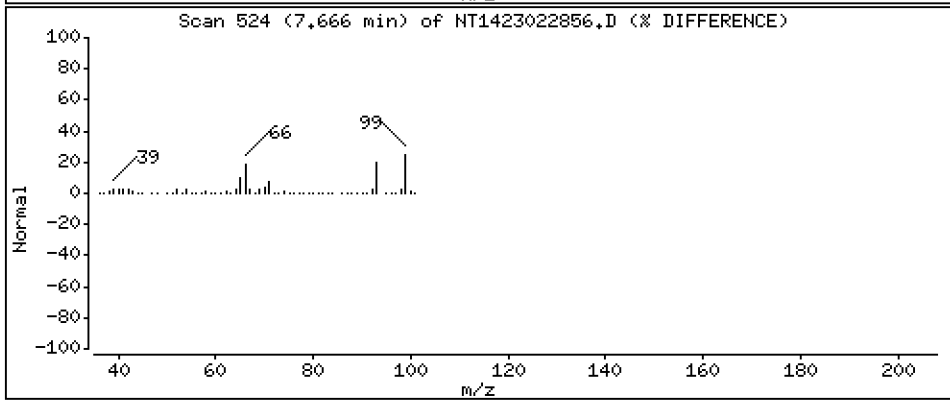
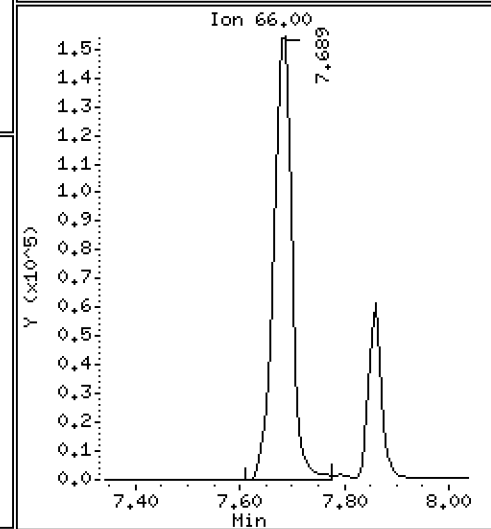
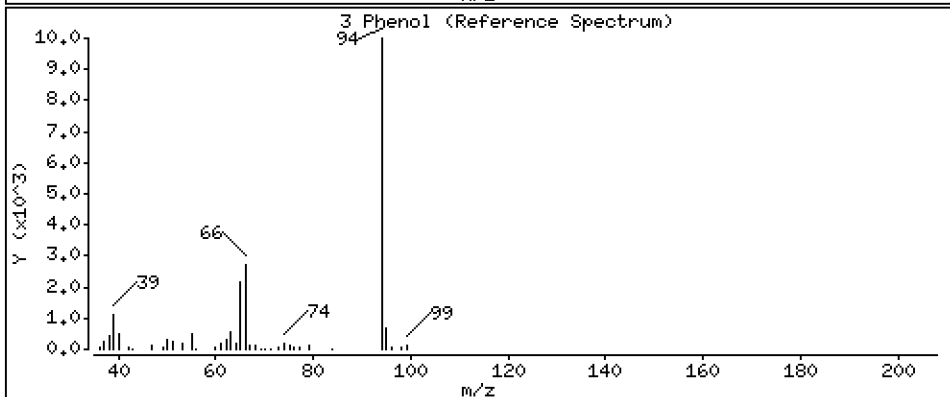
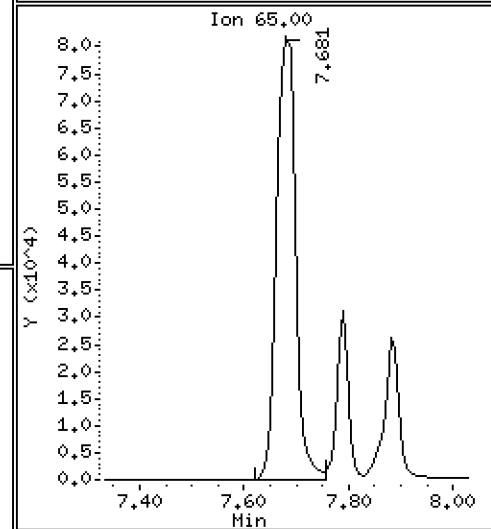
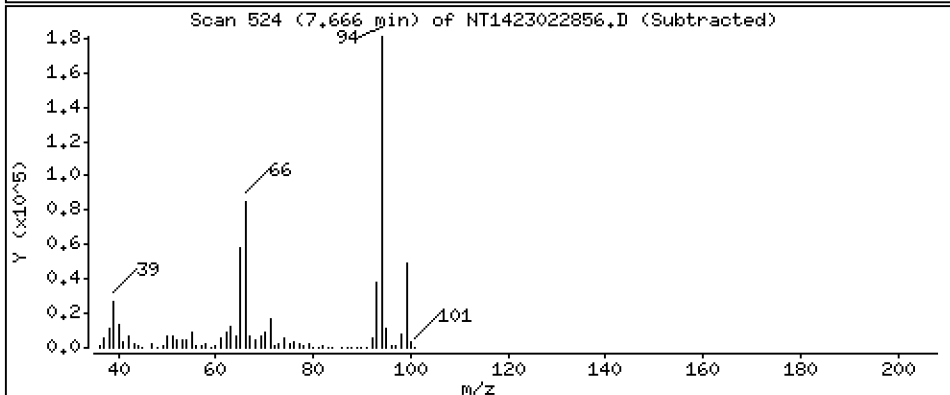
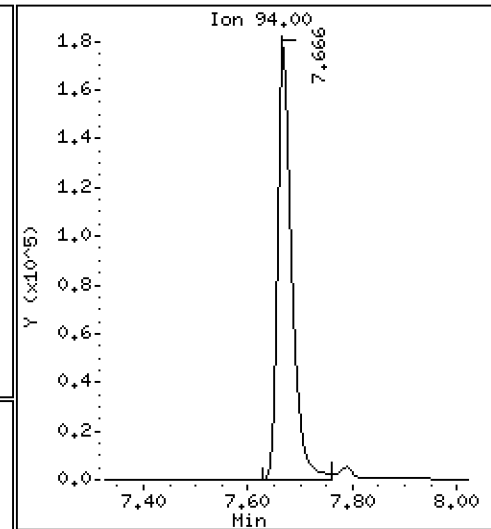
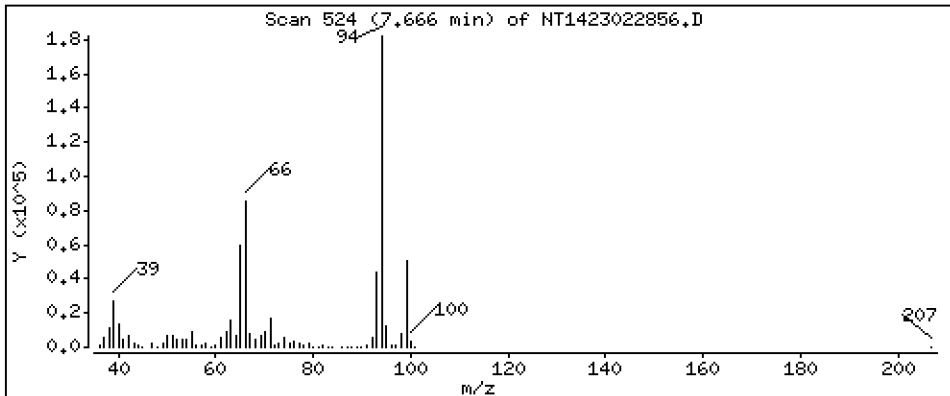
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 5,640 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

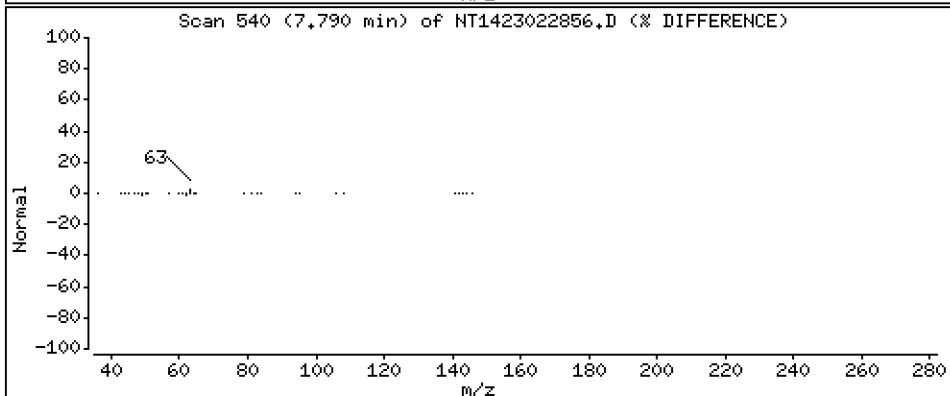
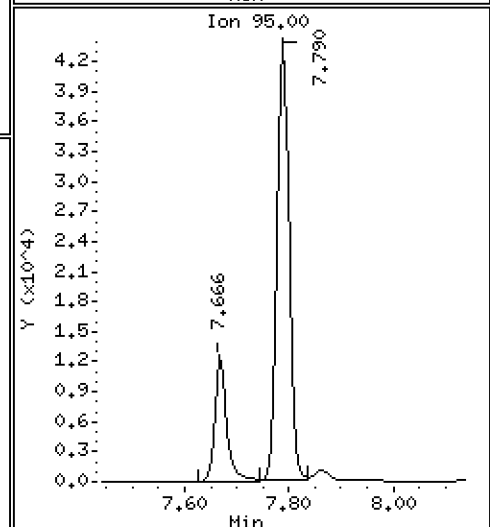
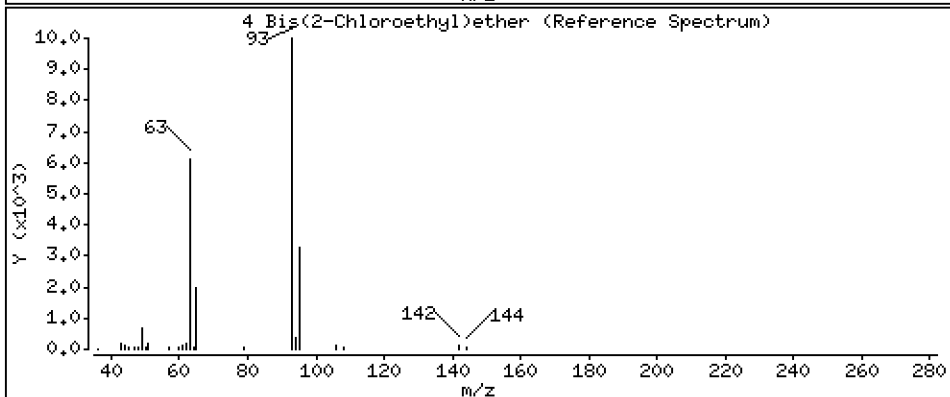
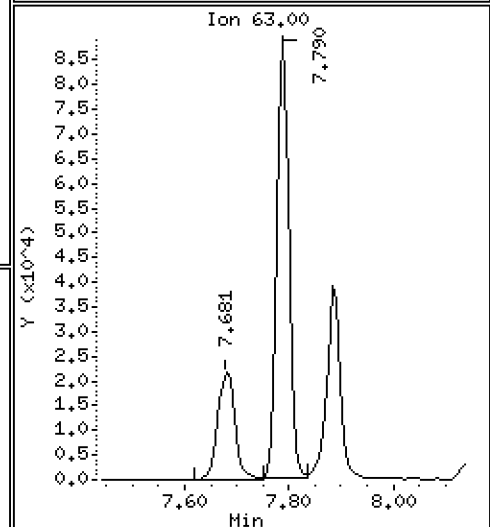
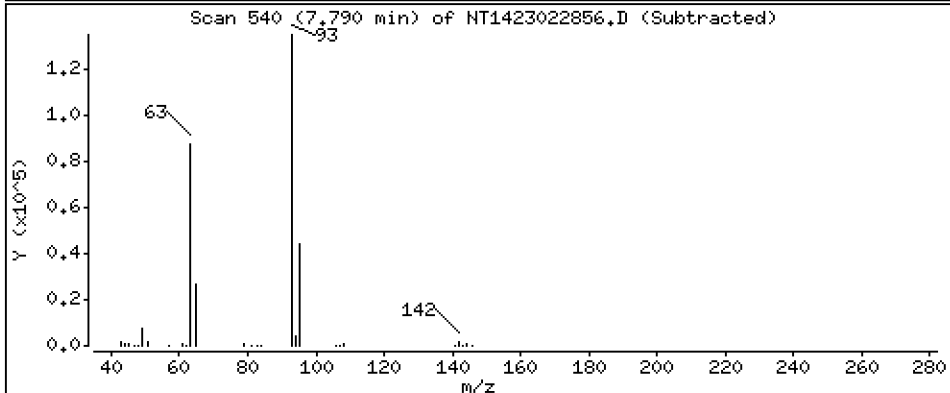
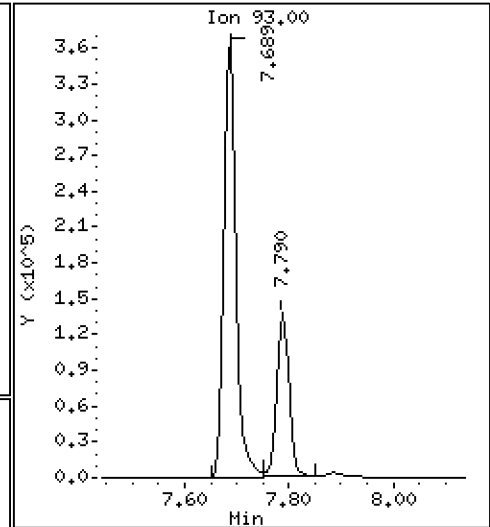
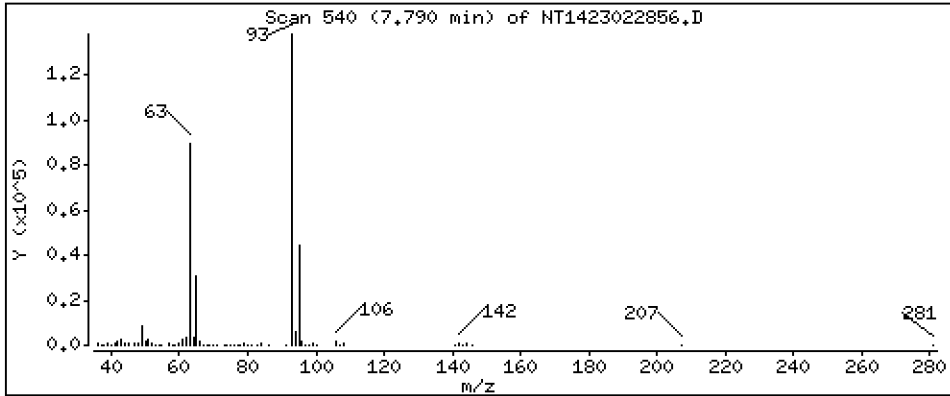
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

4 Bis(2-Chloroethyl)ether

Concentration: 5,291 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

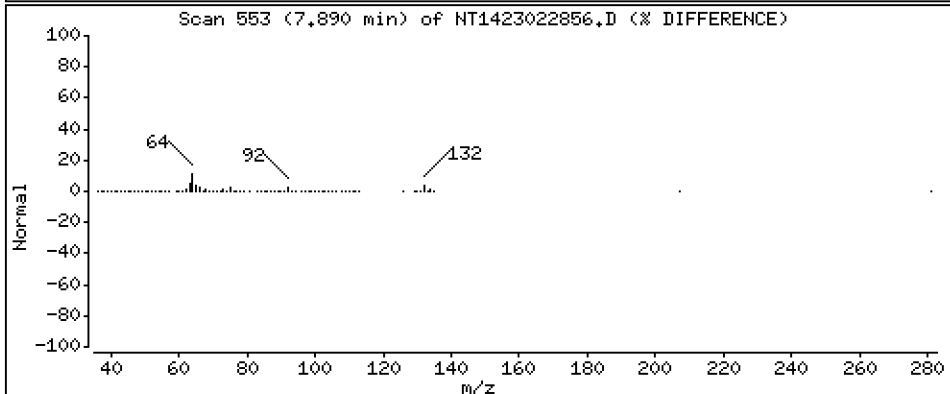
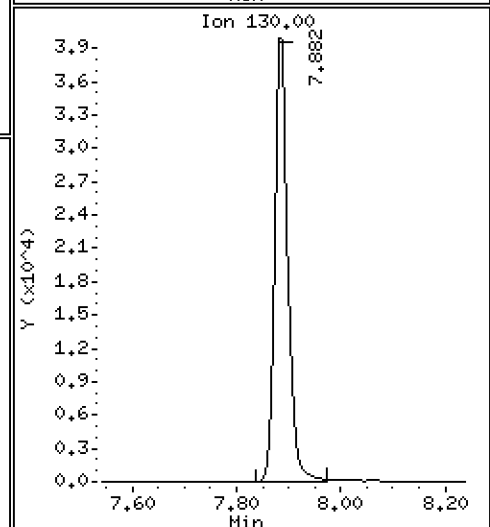
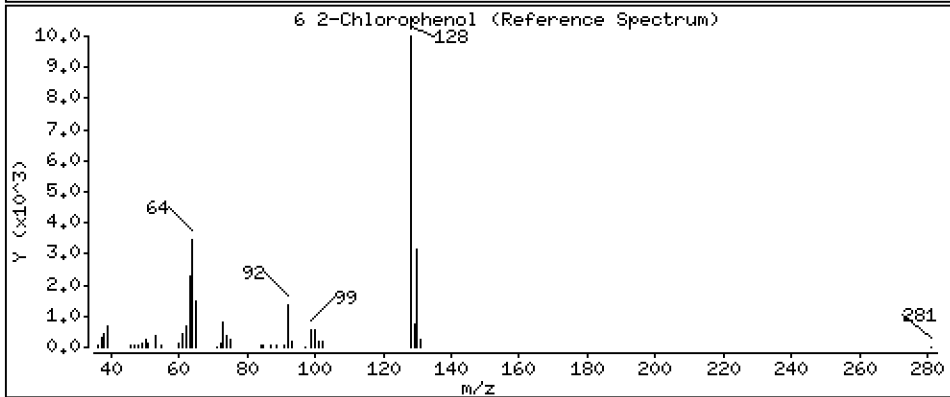
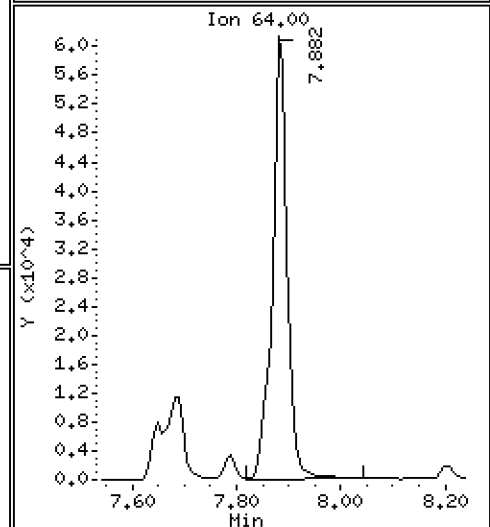
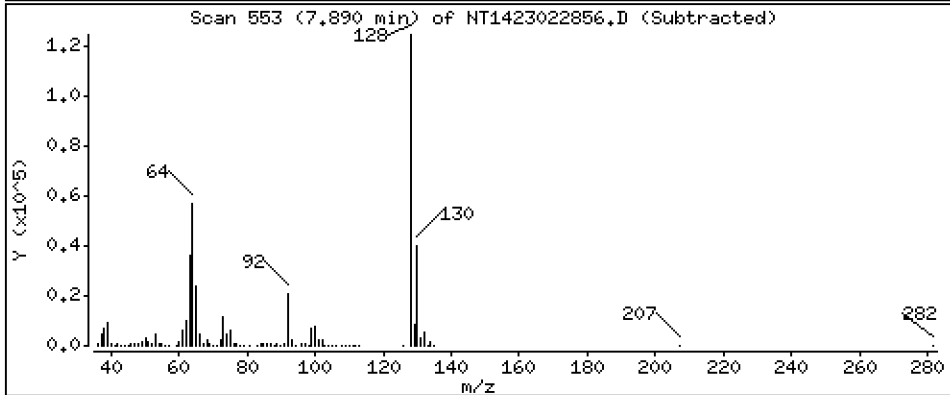
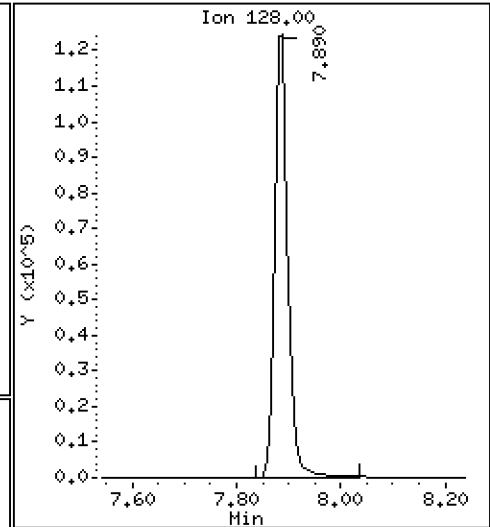
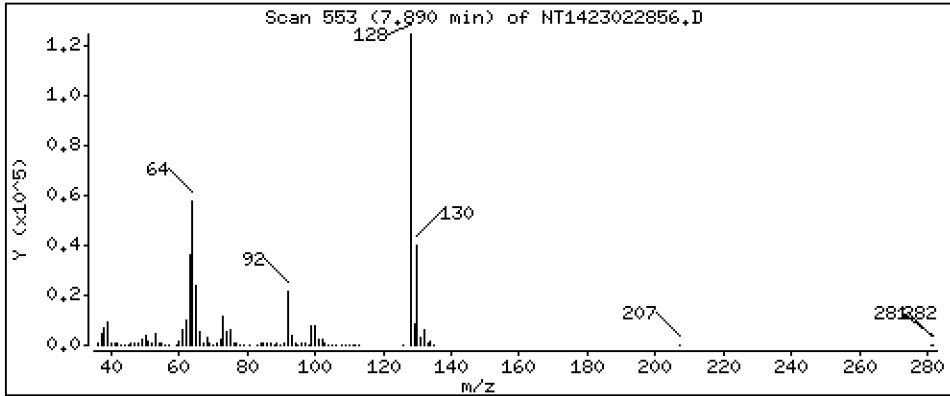
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 5,560 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

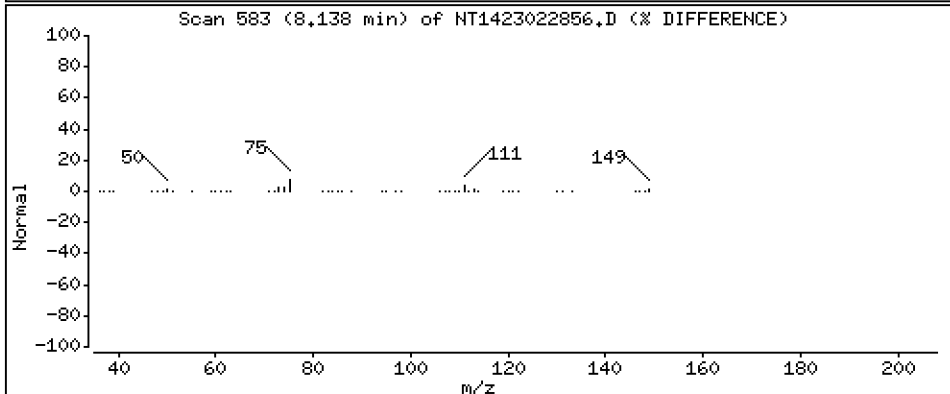
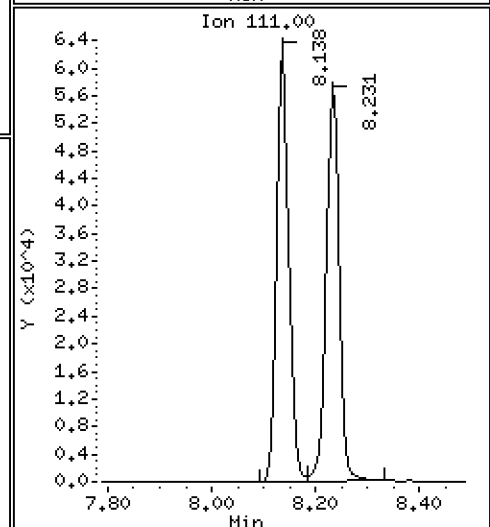
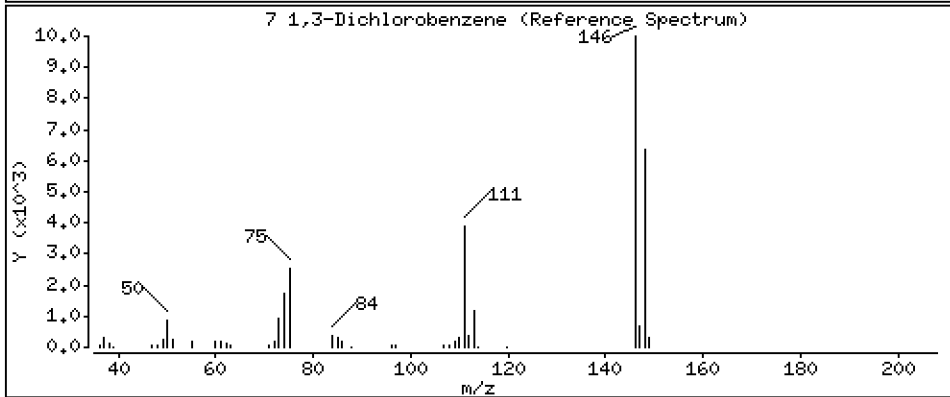
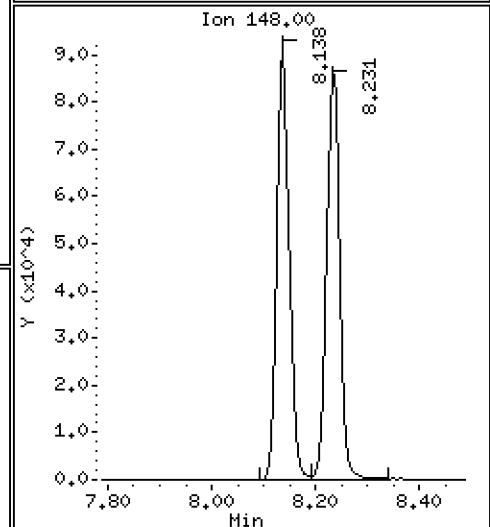
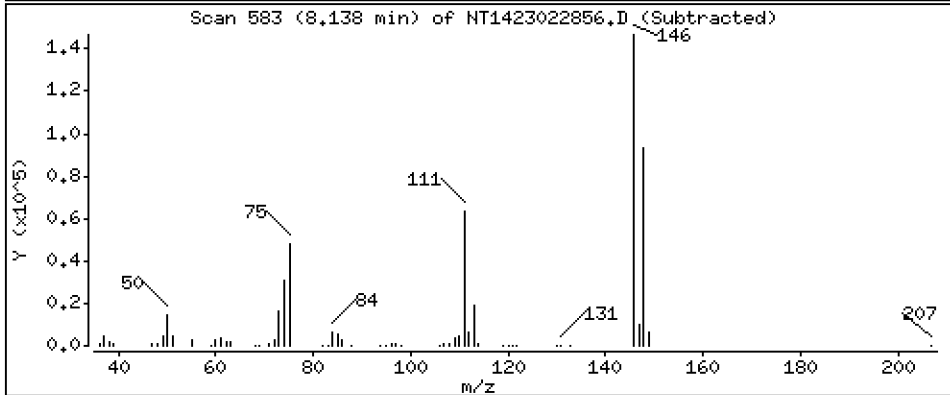
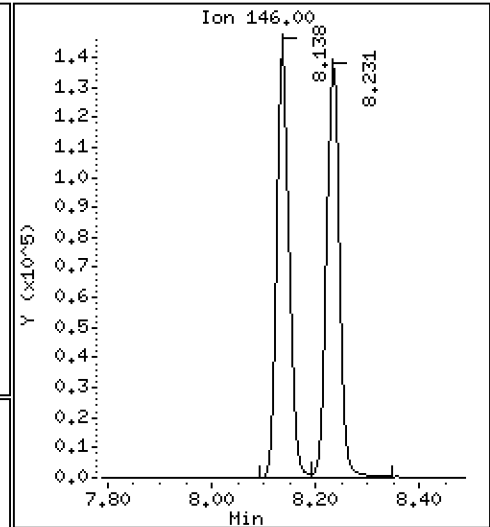
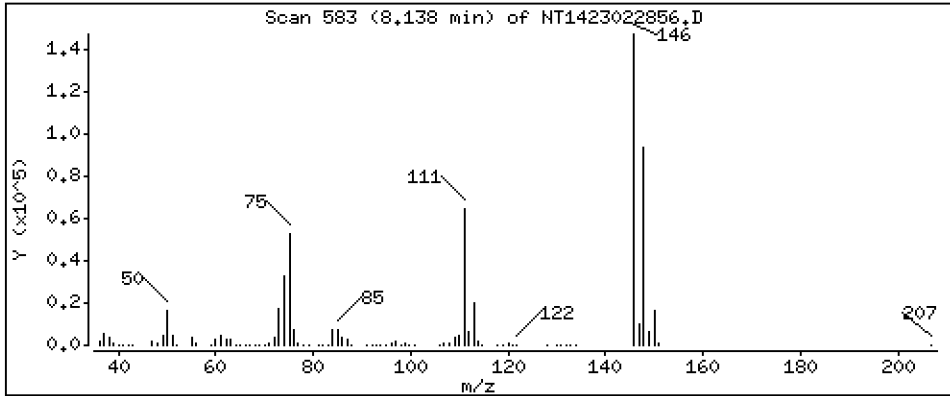
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

7 1,3-Dichlorobenzene

Concentration: 4.984 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

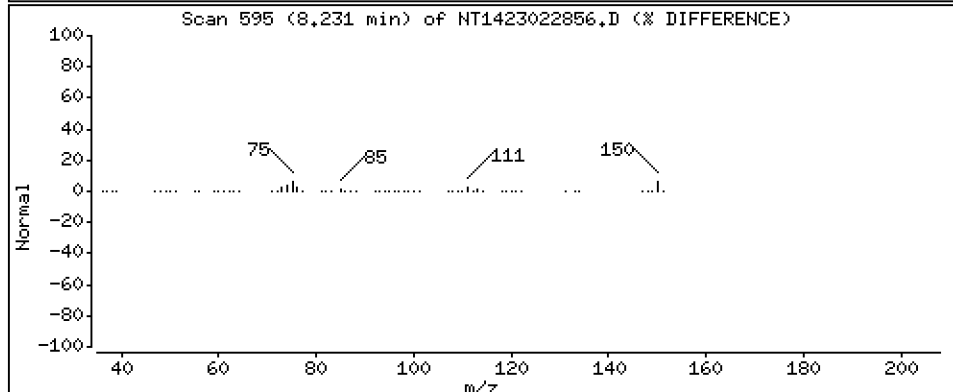
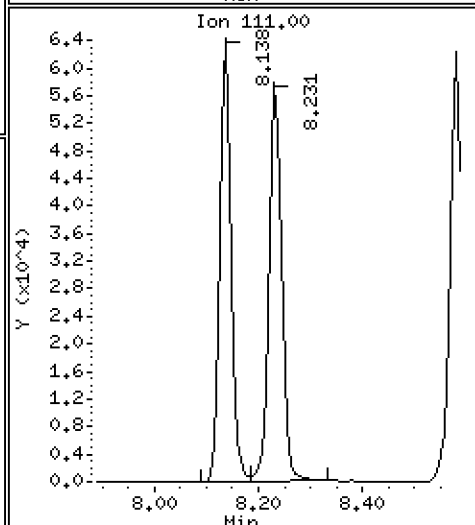
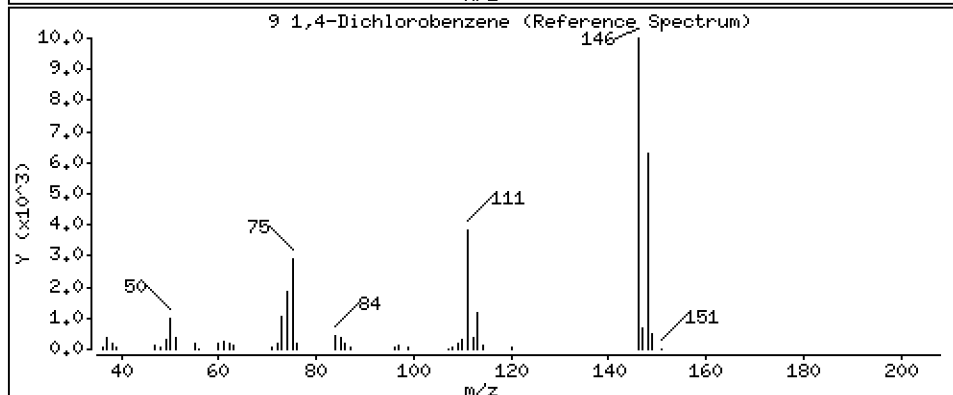
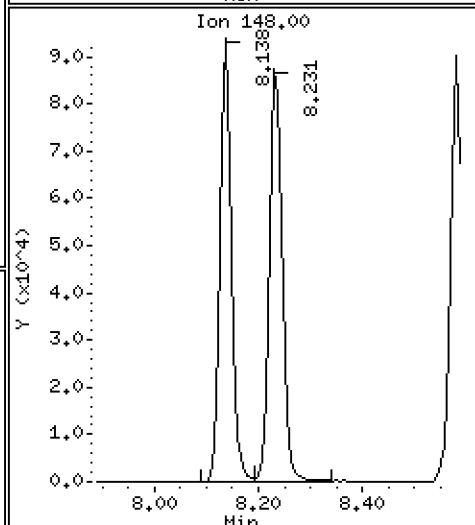
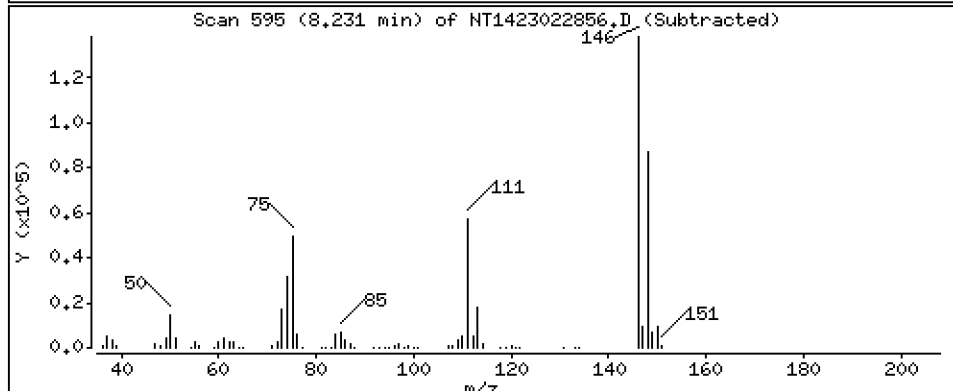
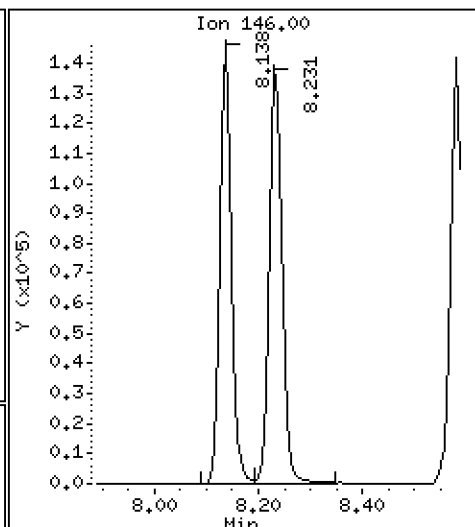
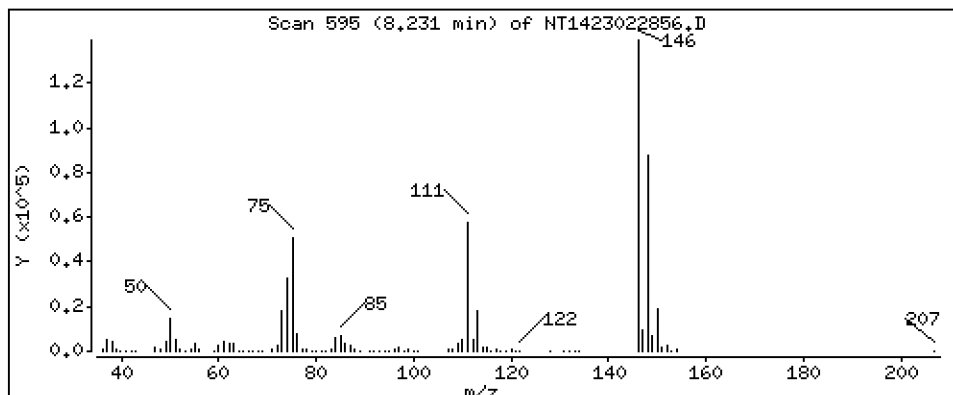
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 4,905 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

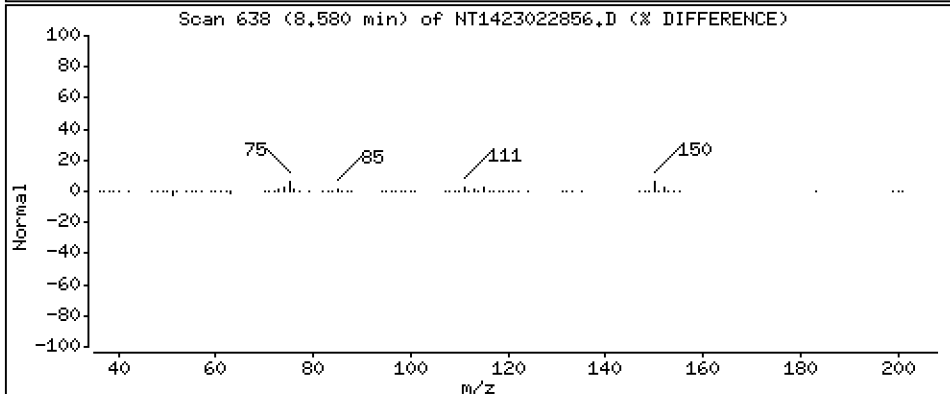
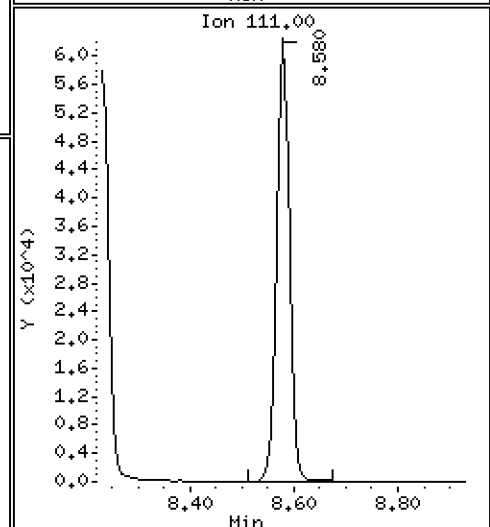
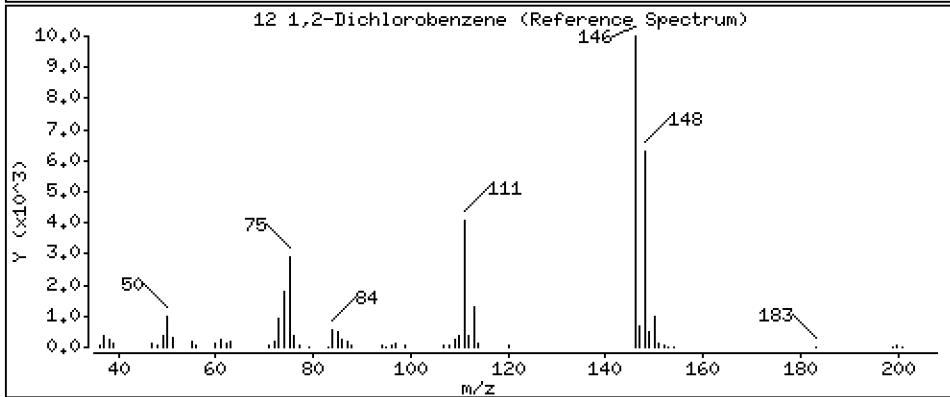
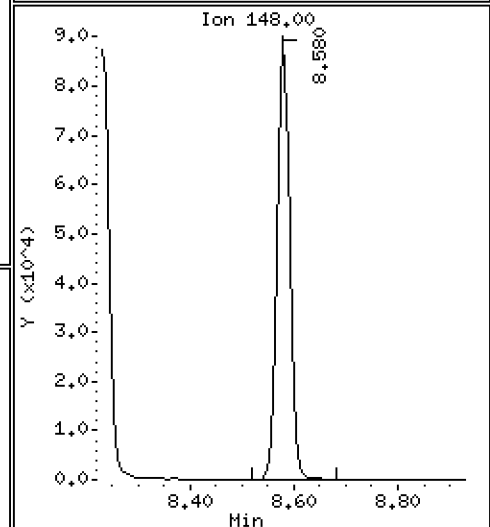
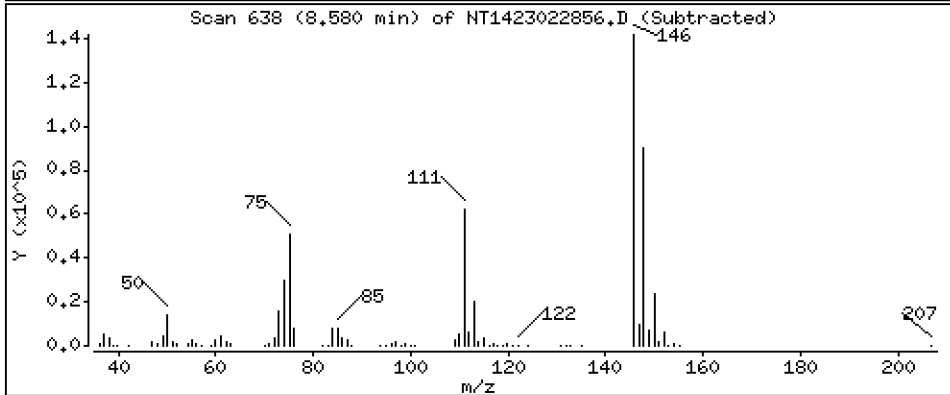
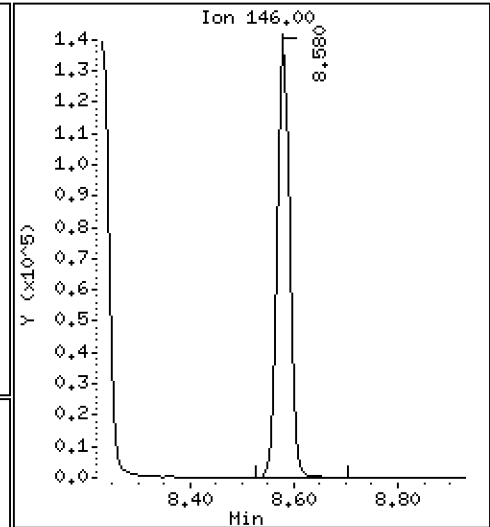
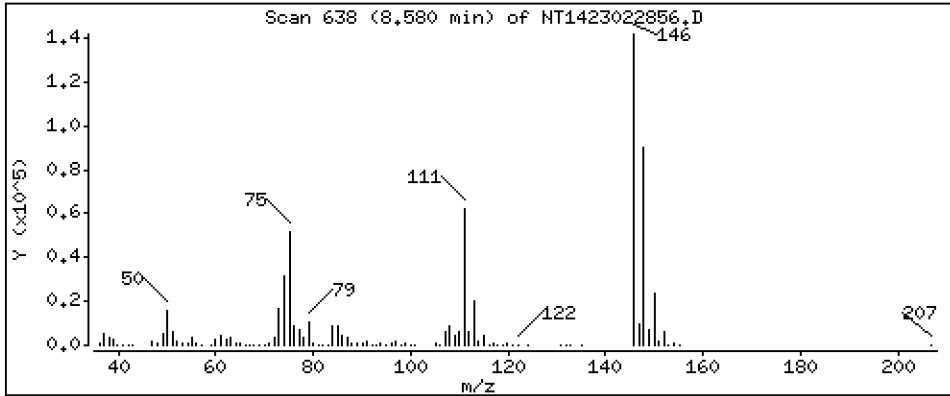
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

12 1,2-Dichlorobenzene

Concentration: 4,988 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

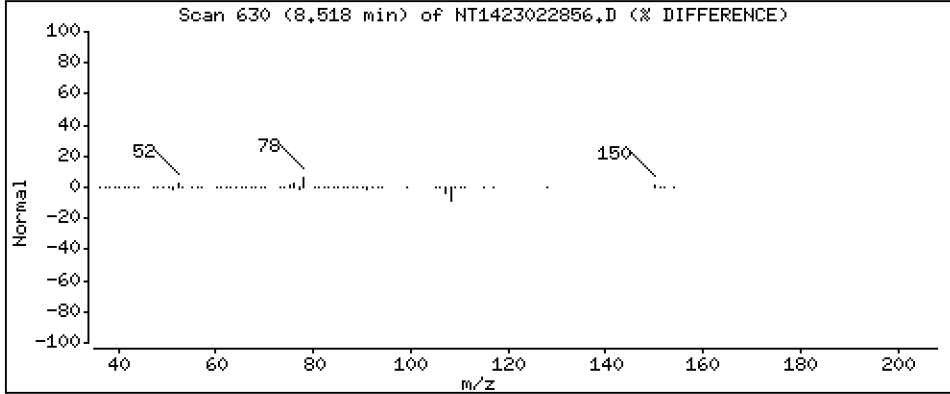
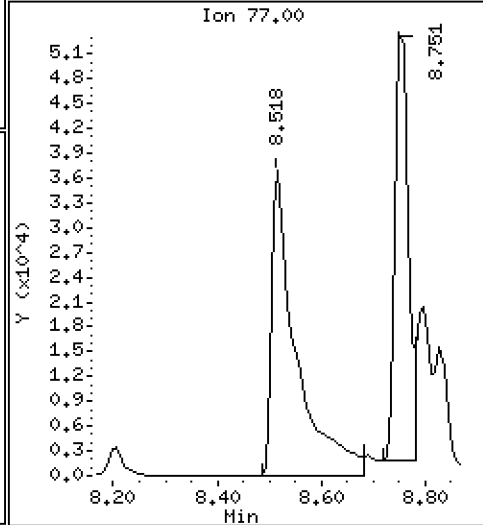
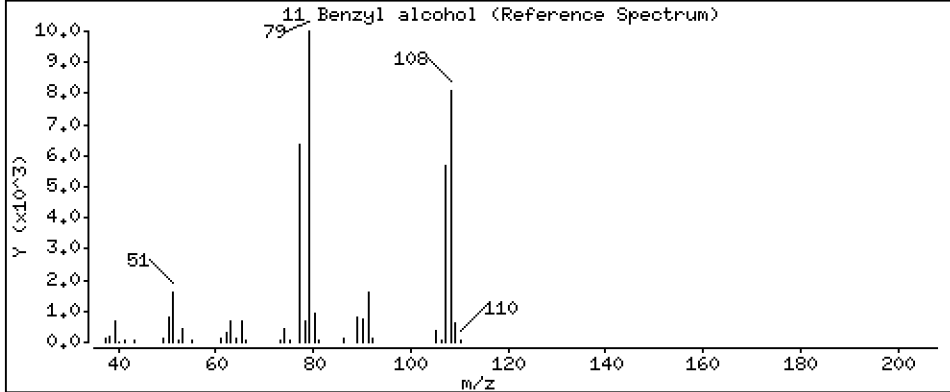
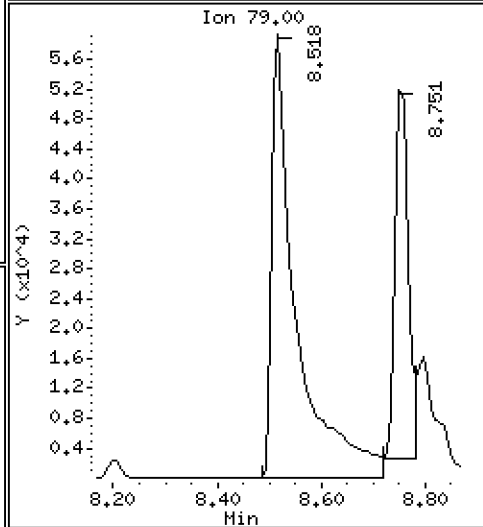
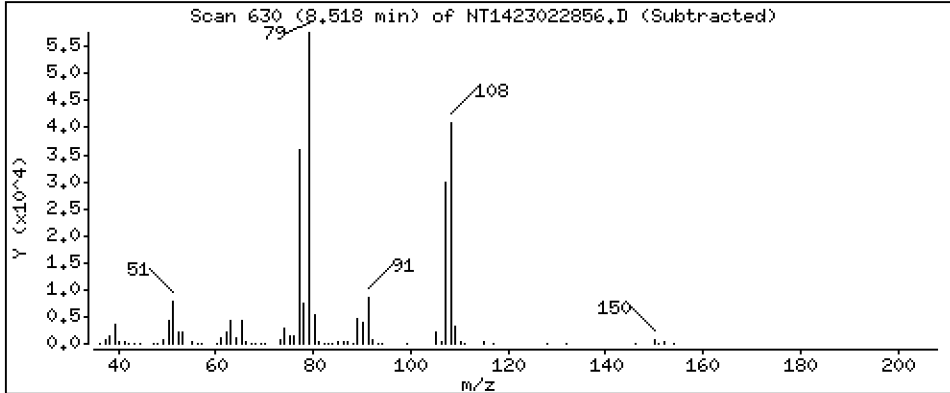
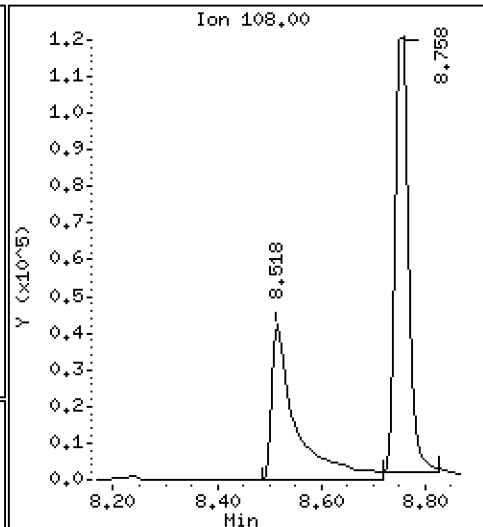
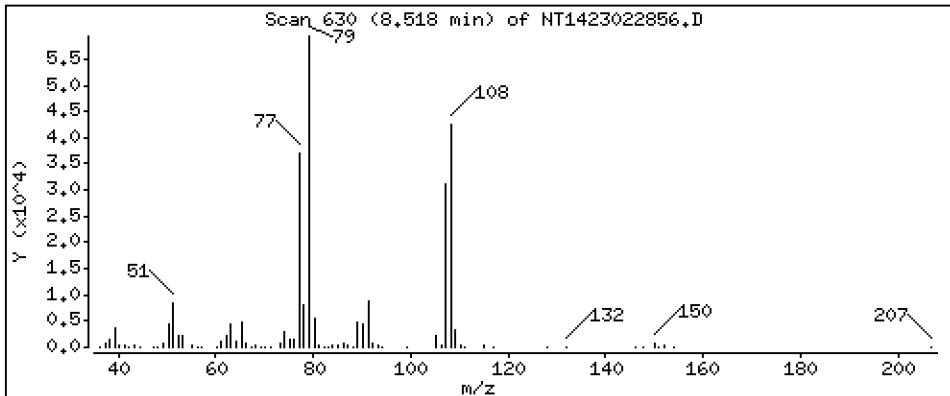
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

11 Benzyl alcohol

Concentration: 5,306 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

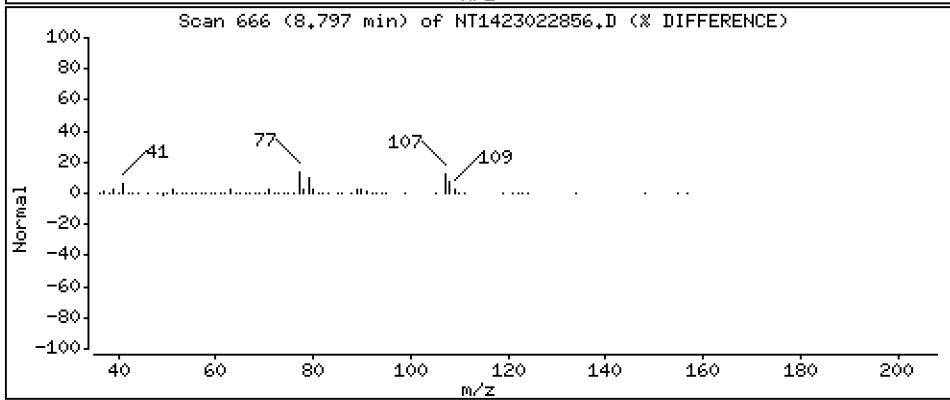
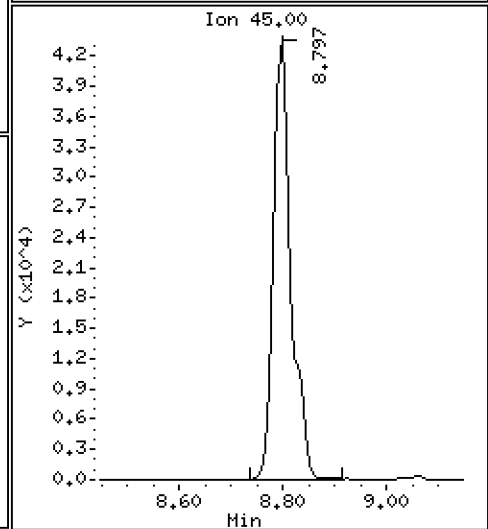
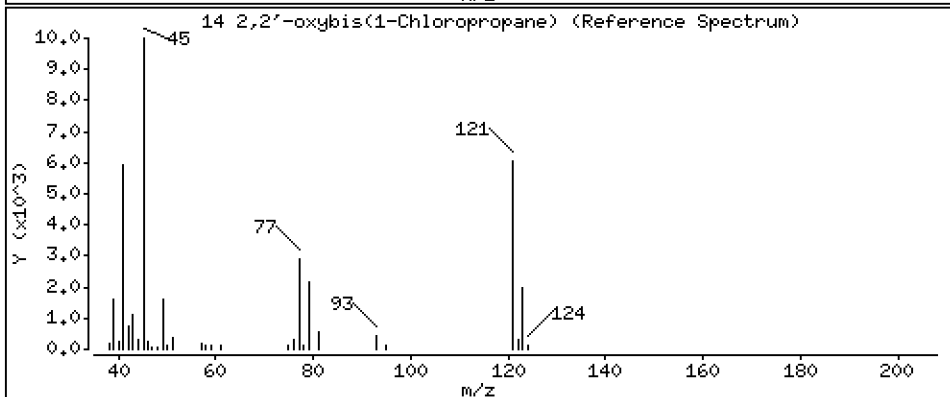
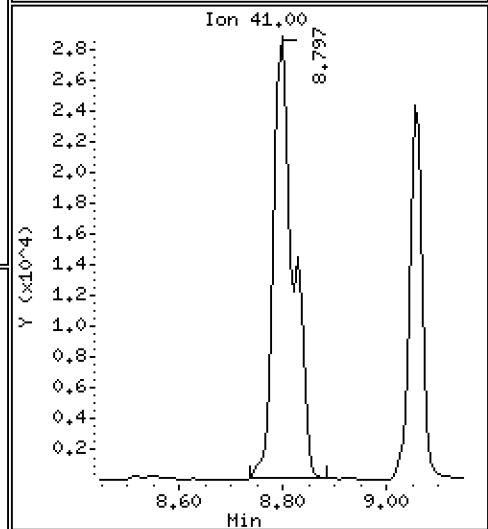
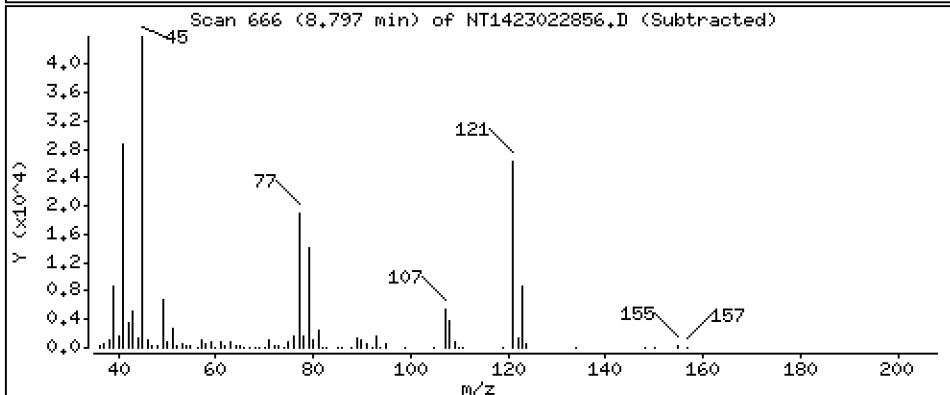
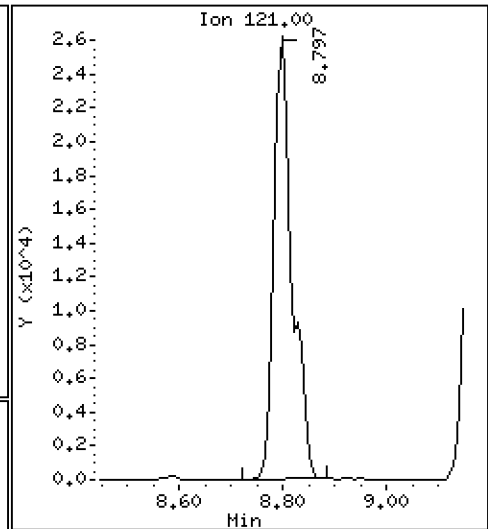
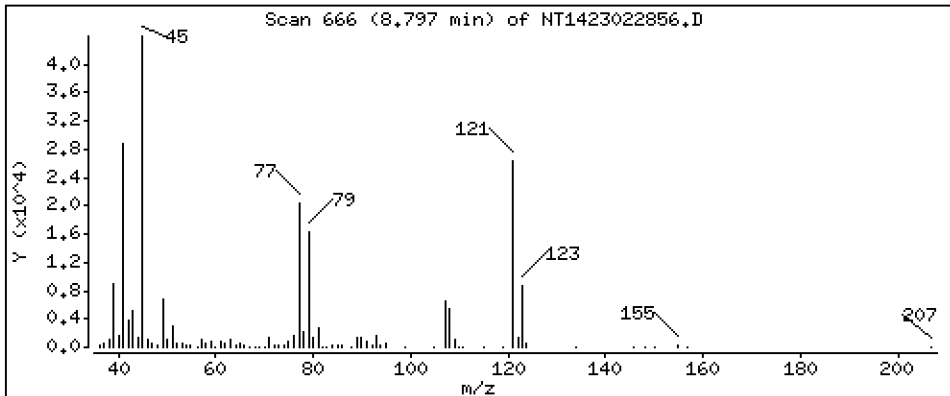
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 5,222 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

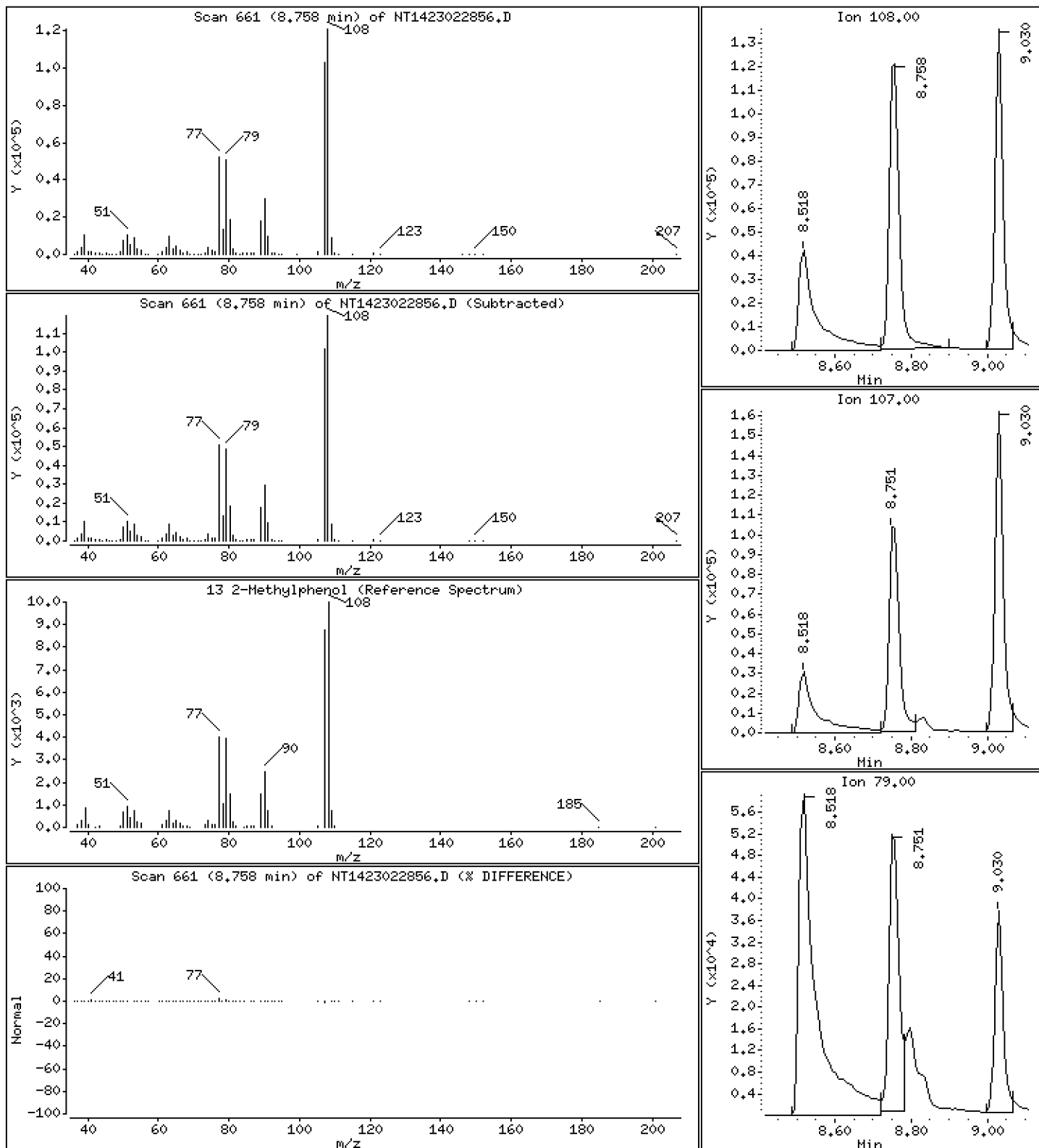
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

13 2-Methylphenol

Concentration: 5,872 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

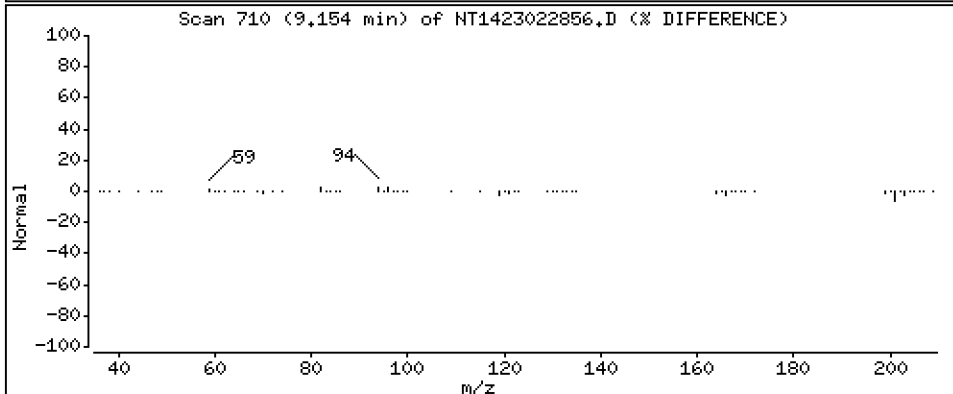
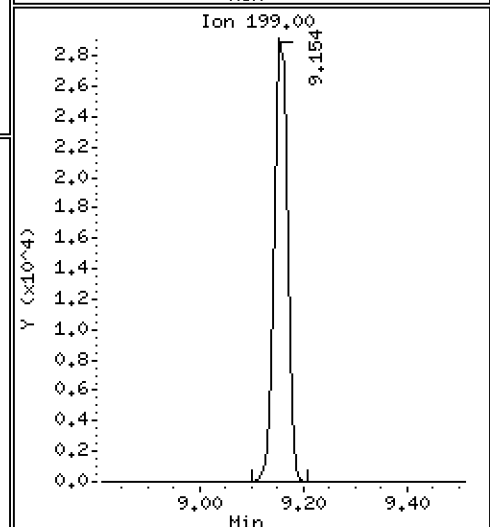
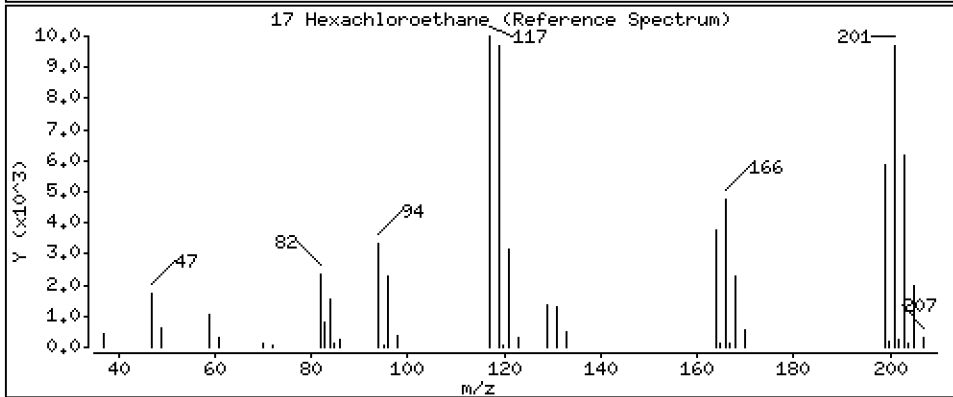
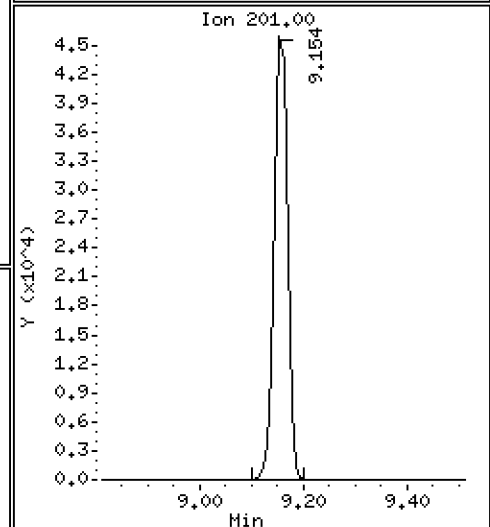
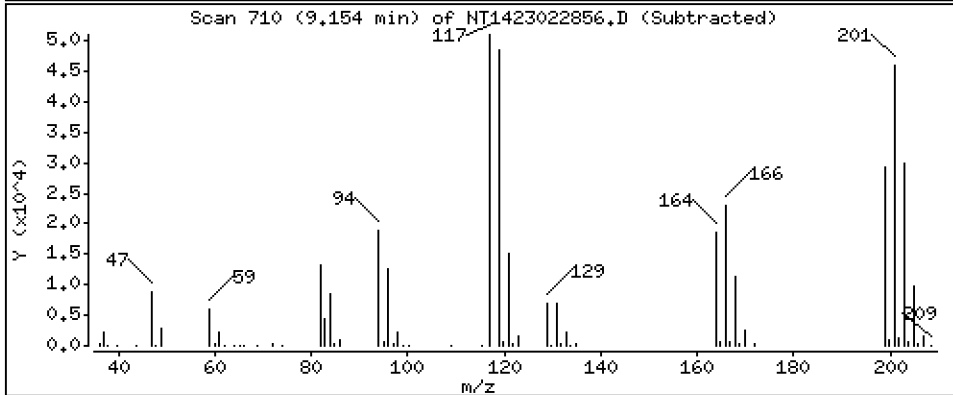
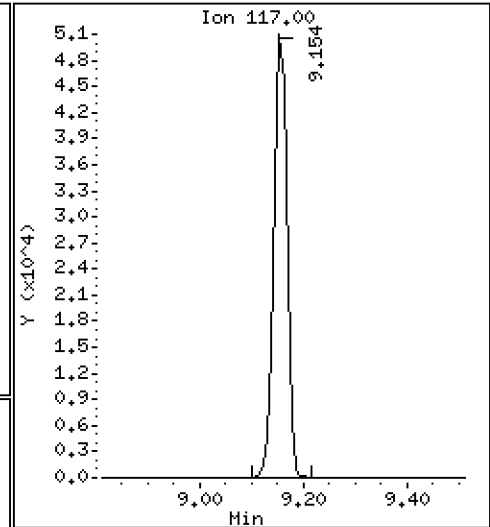
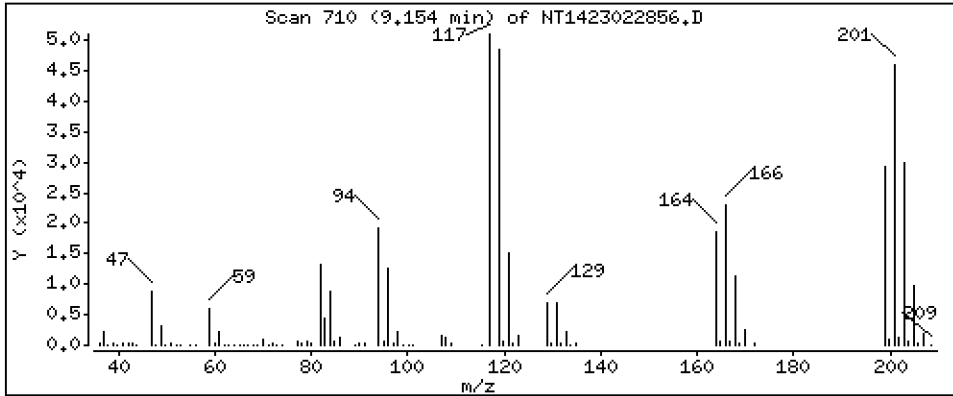
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

17 Hexachloroethane

Concentration: 4.913 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

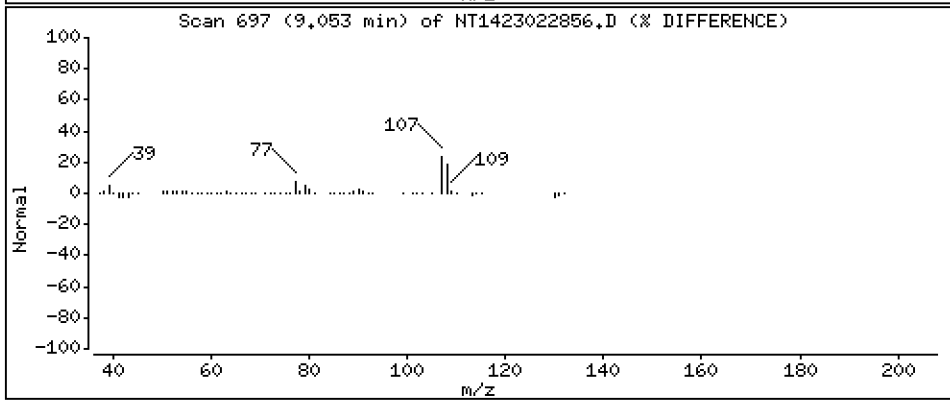
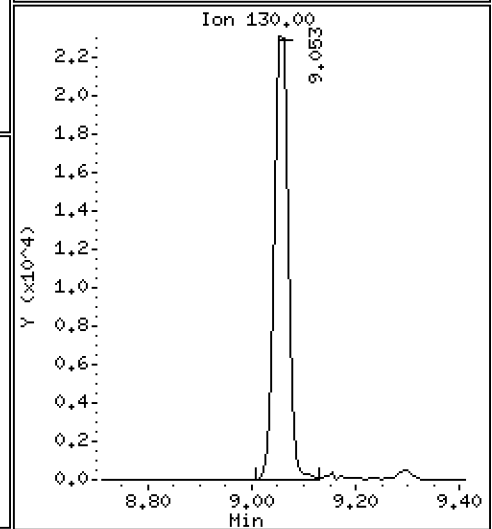
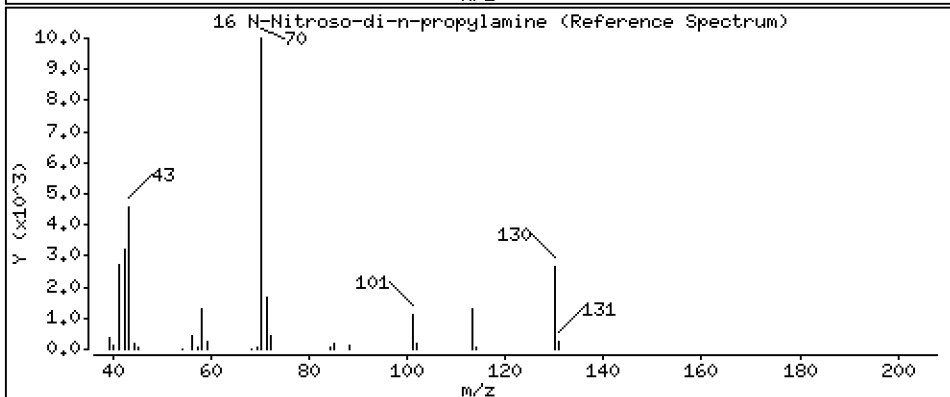
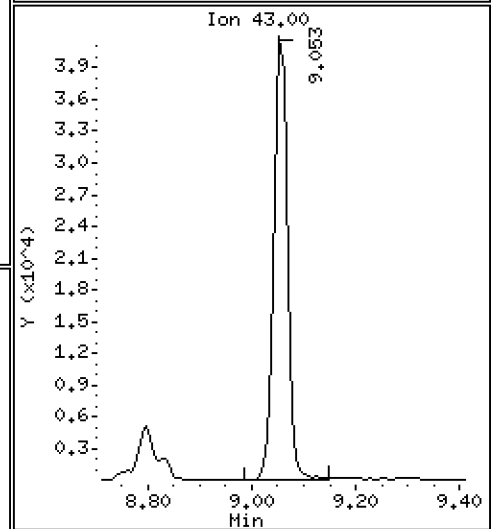
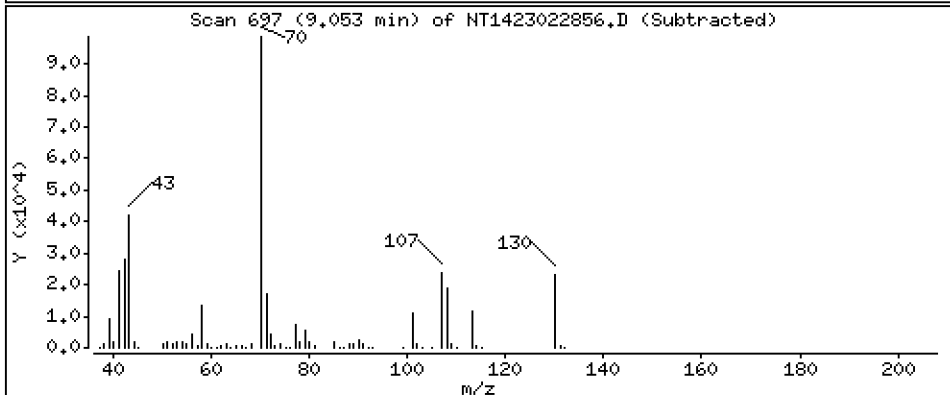
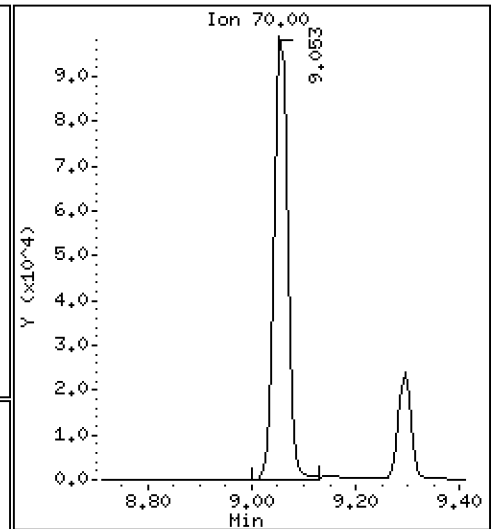
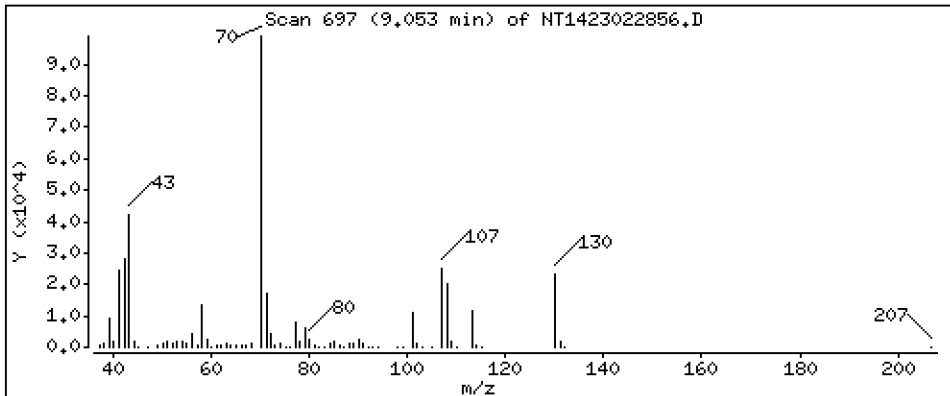
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

16 N-Nitroso-di-n-propylamine

Concentration: 6,194 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

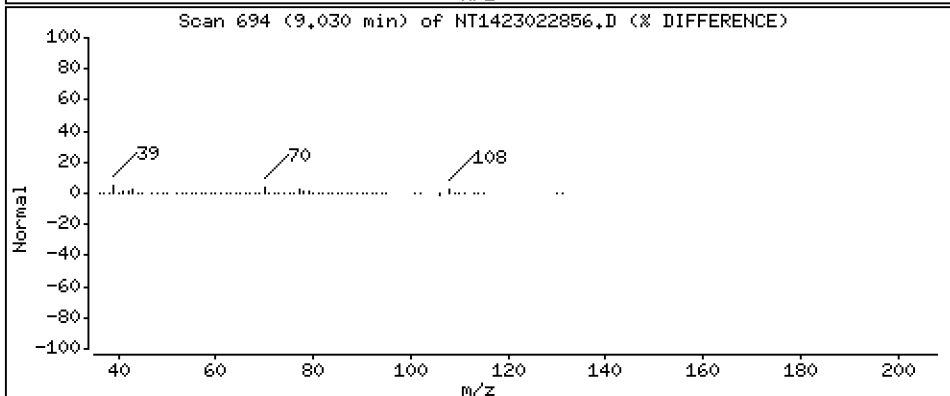
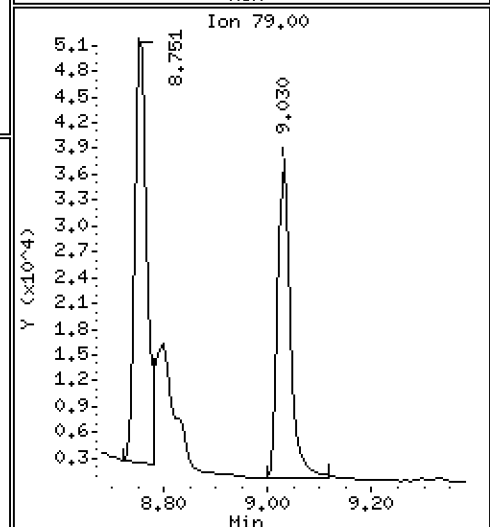
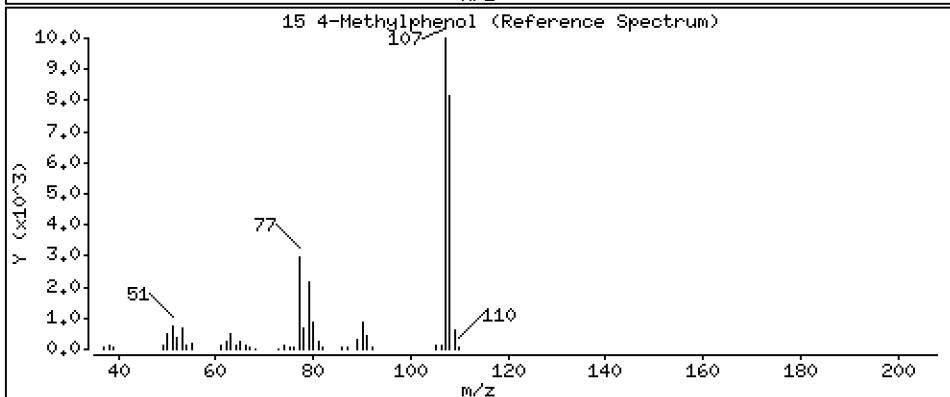
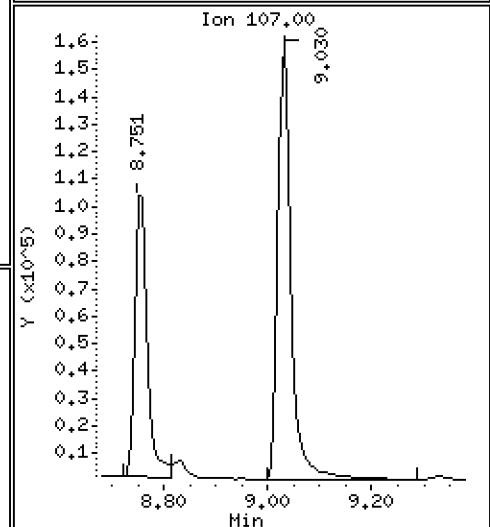
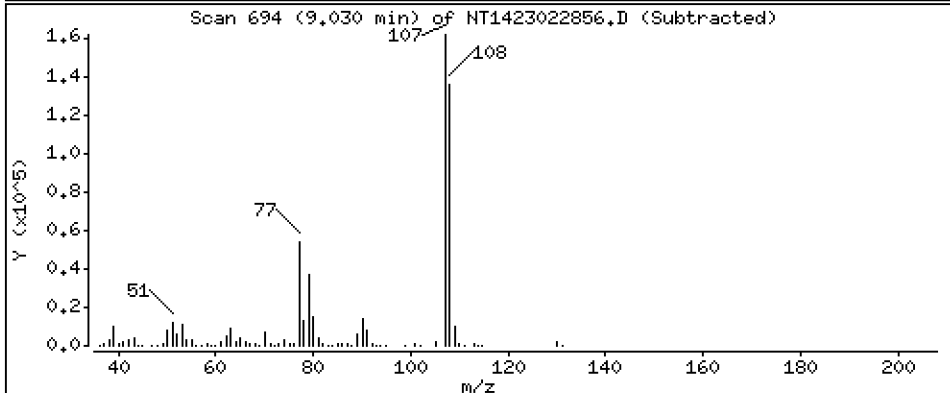
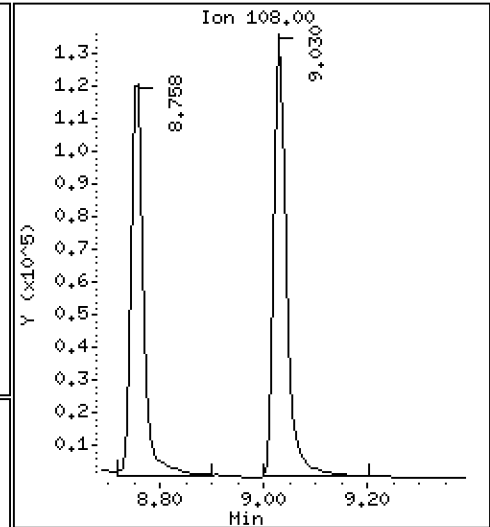
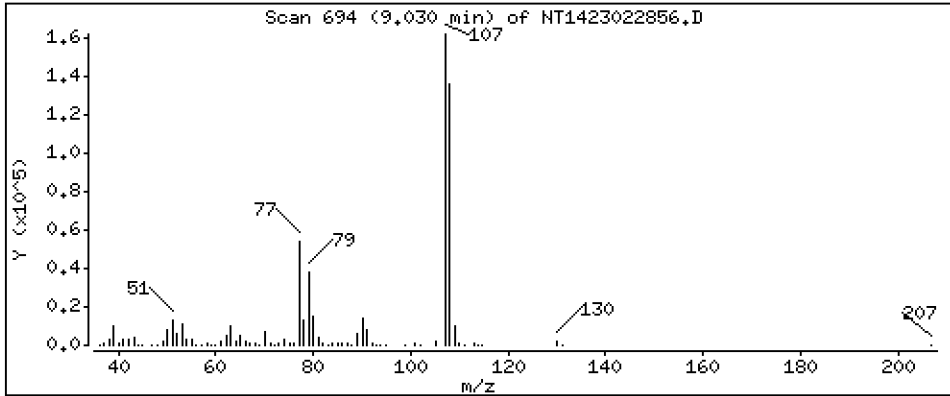
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

15 4-Methylphenol

Concentration: 5,242 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

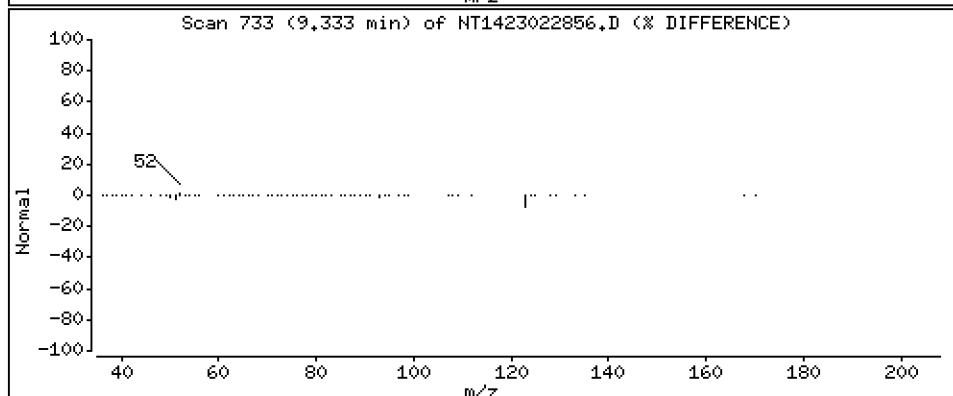
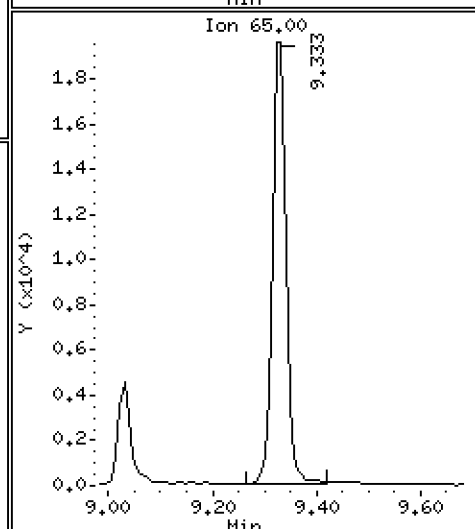
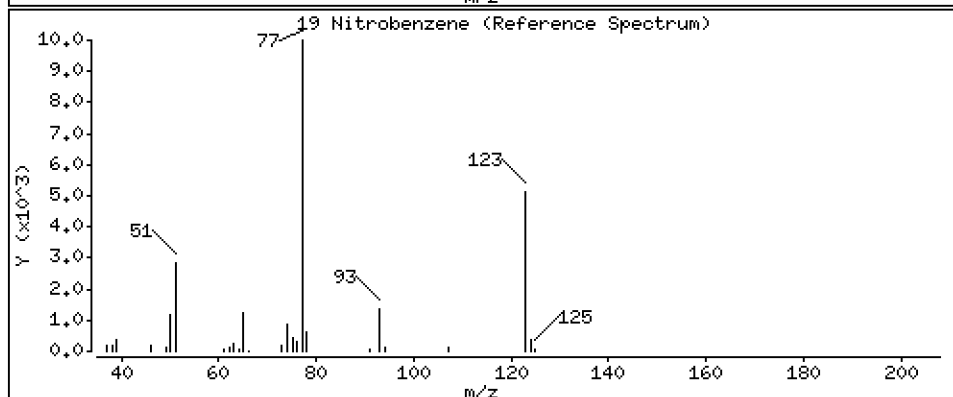
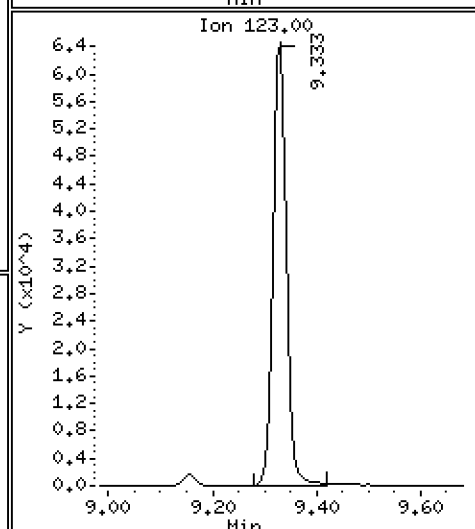
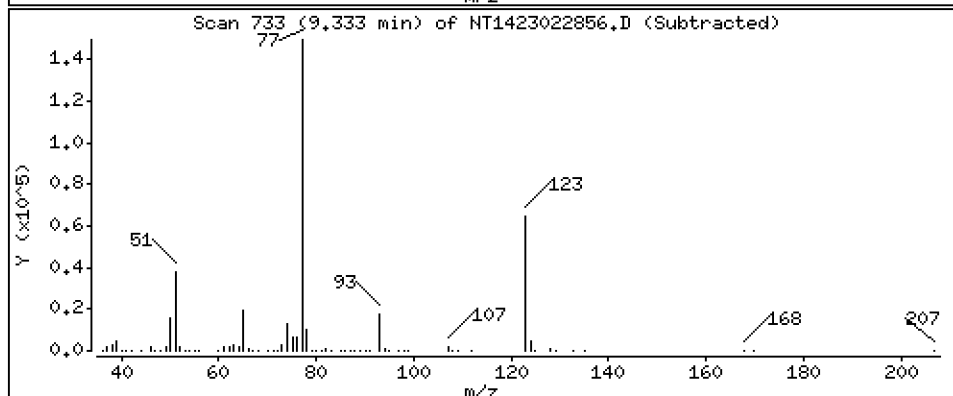
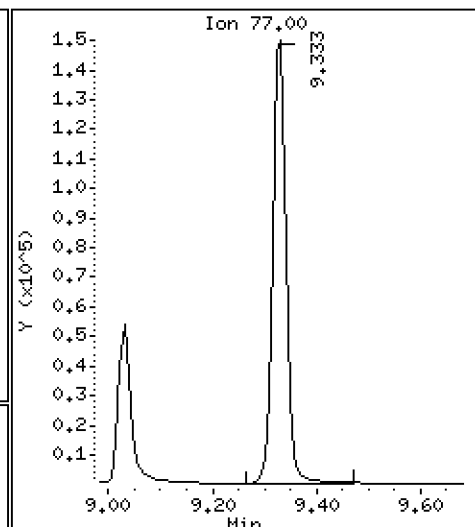
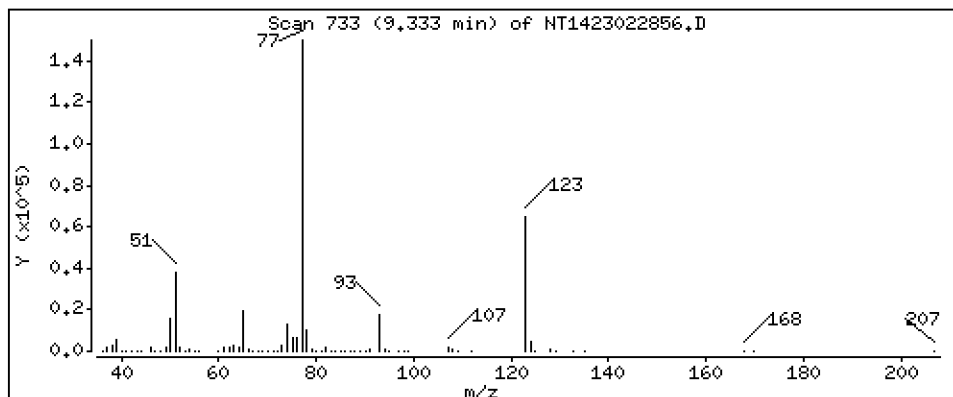
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

19 Nitrobenzene

Concentration: 5,921 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

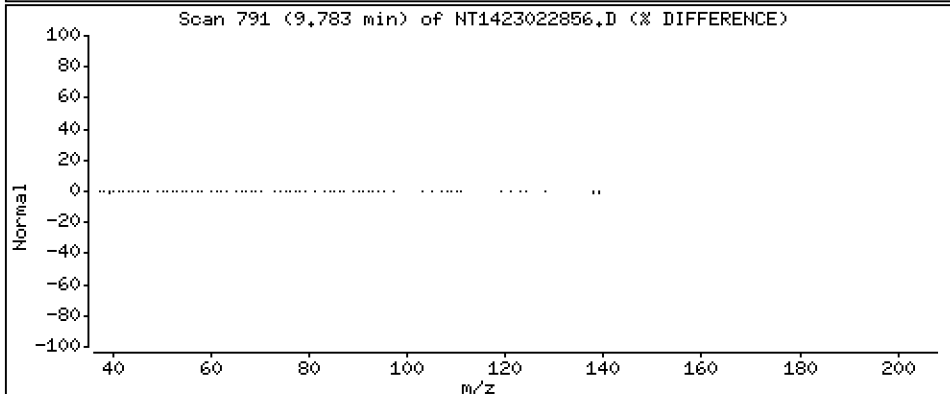
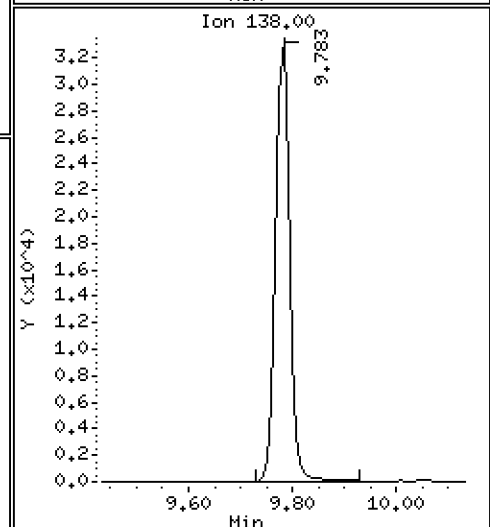
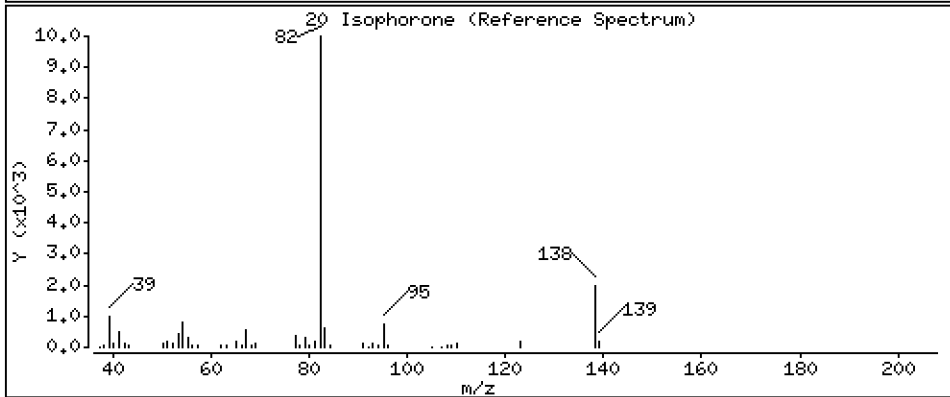
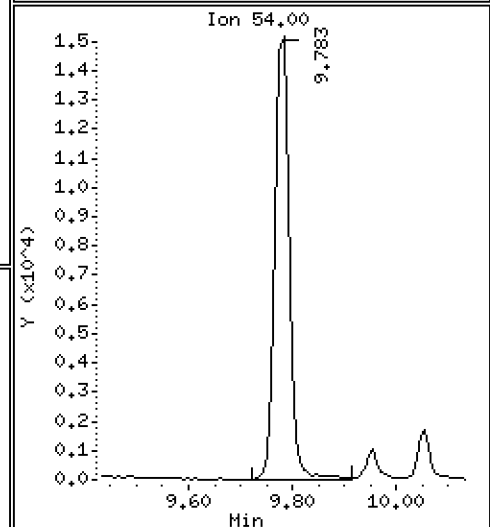
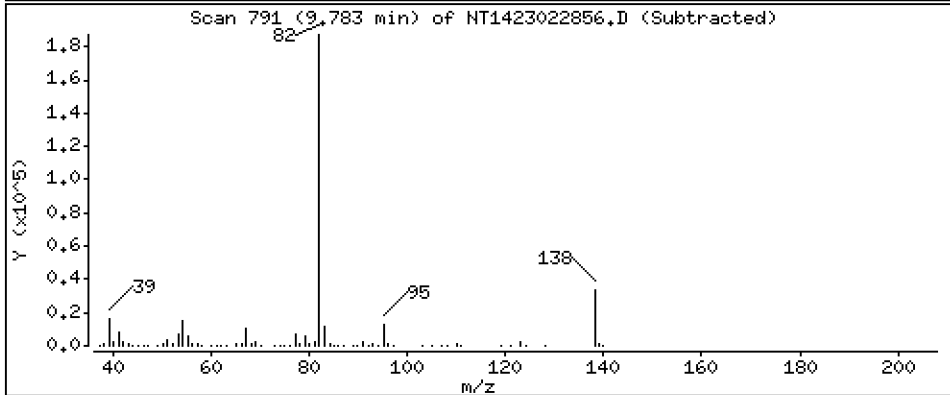
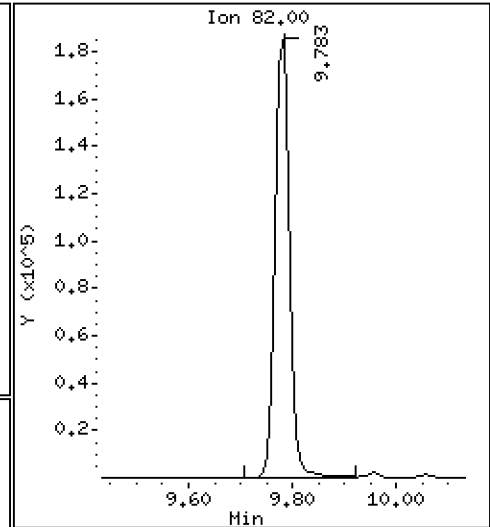
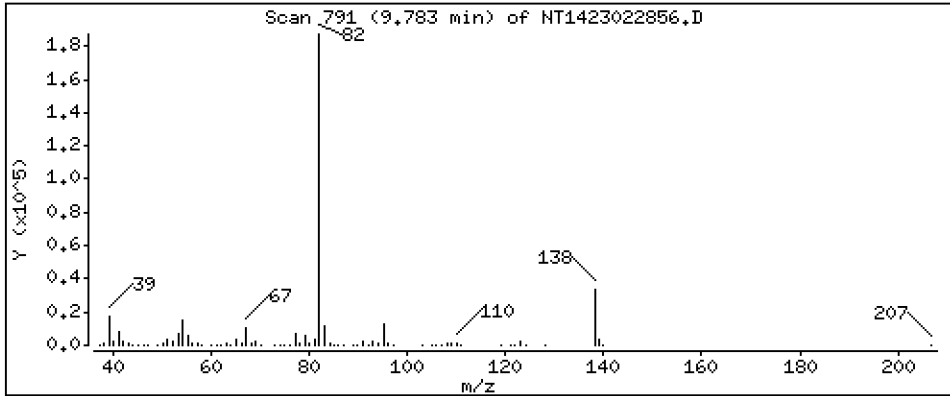
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

20 Isophorone

Concentration: 5,538 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

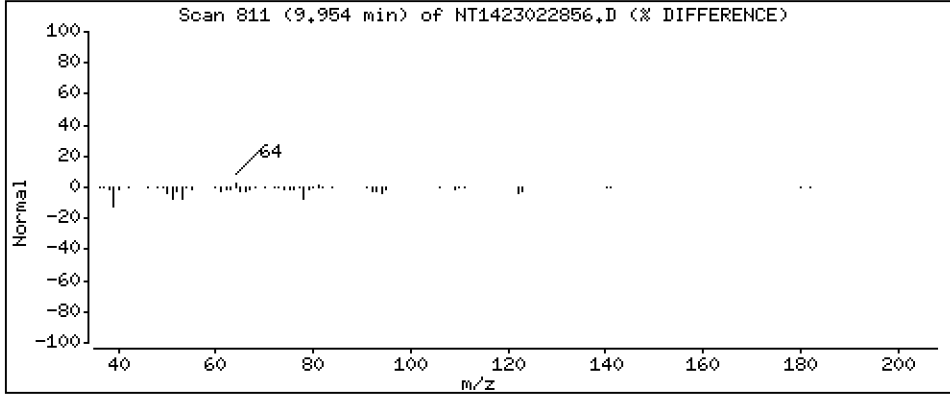
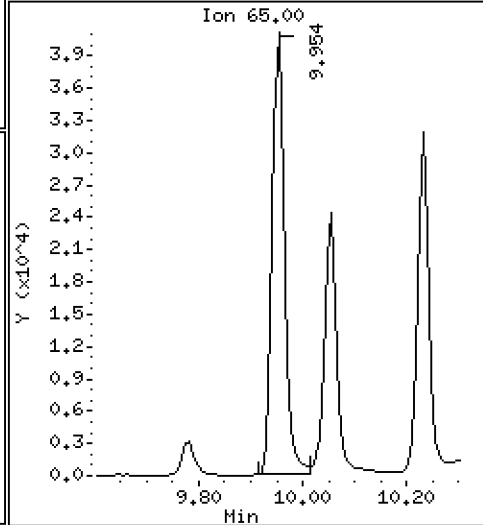
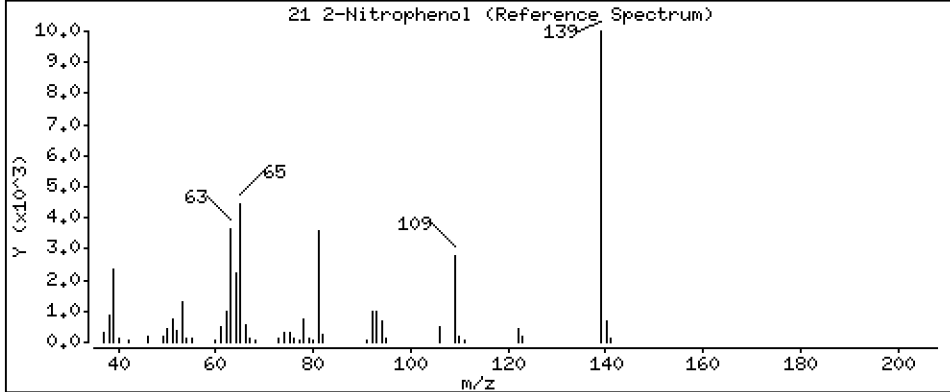
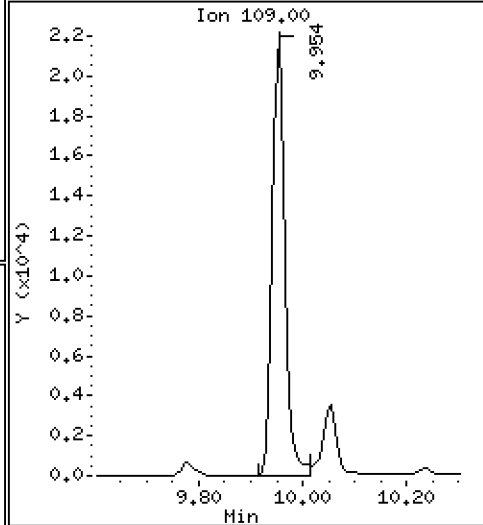
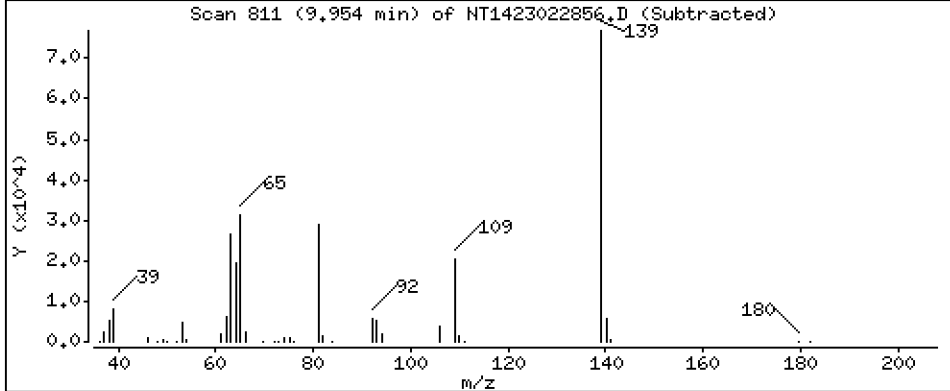
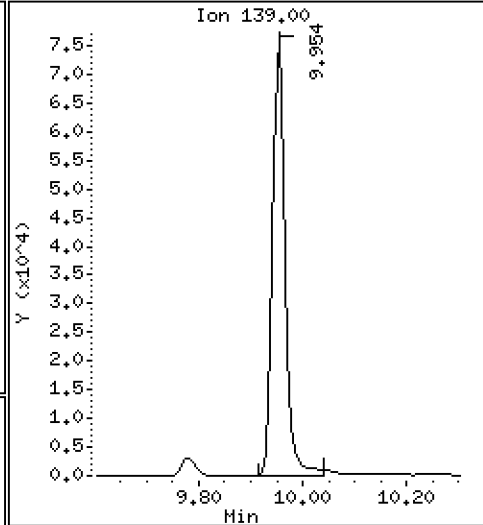
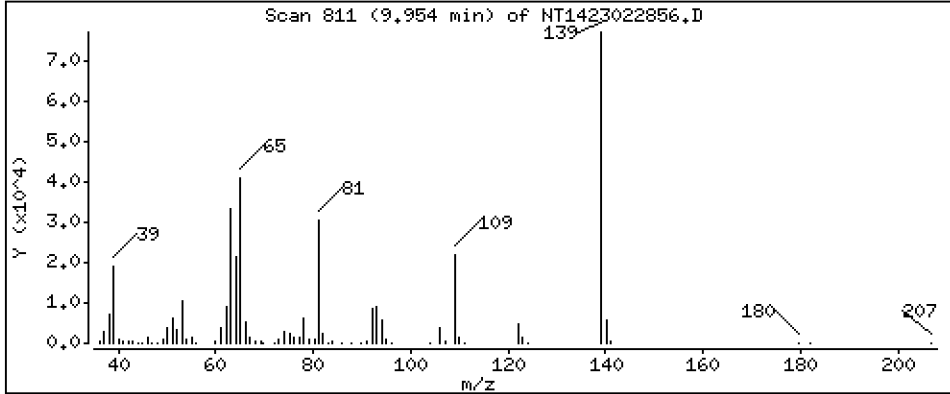
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

21 2-Nitrophenol

Concentration: 5,309 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

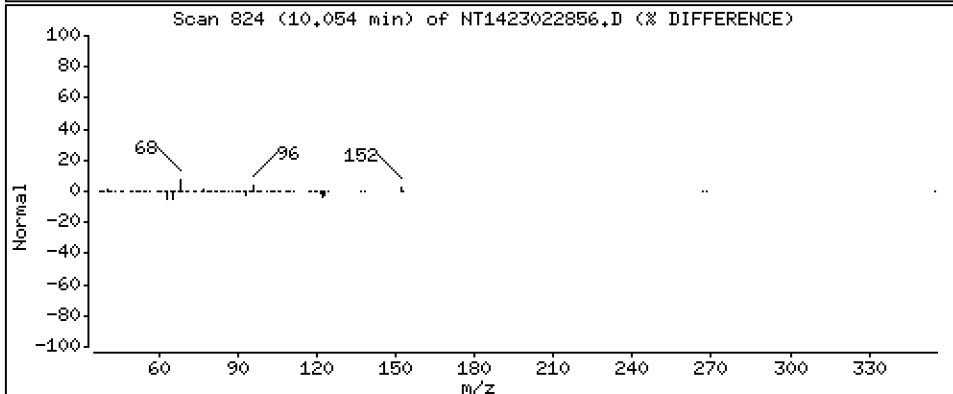
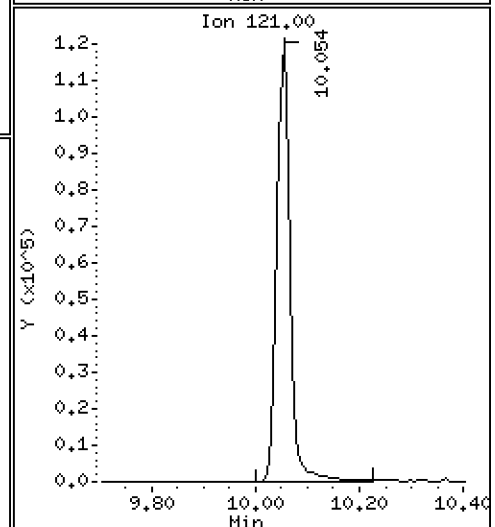
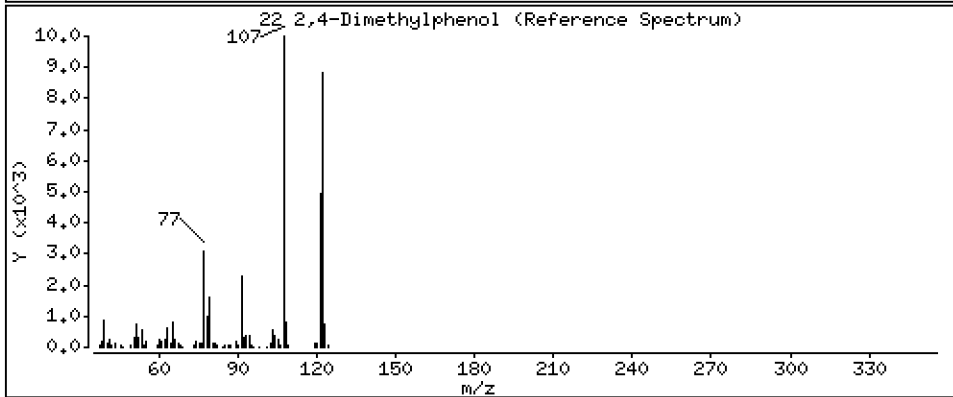
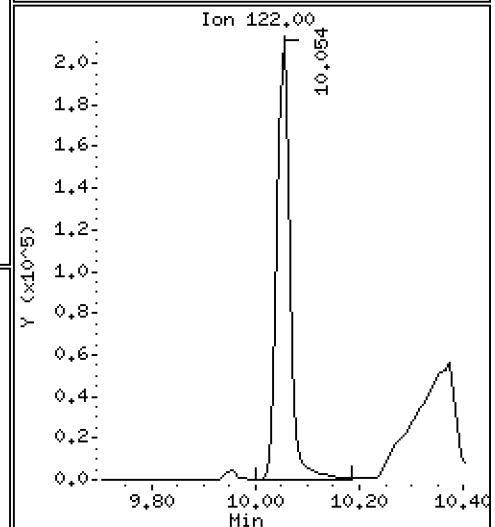
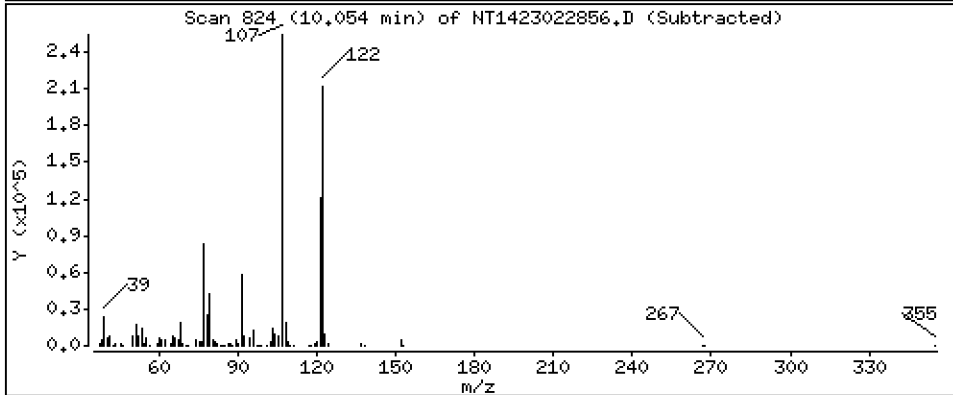
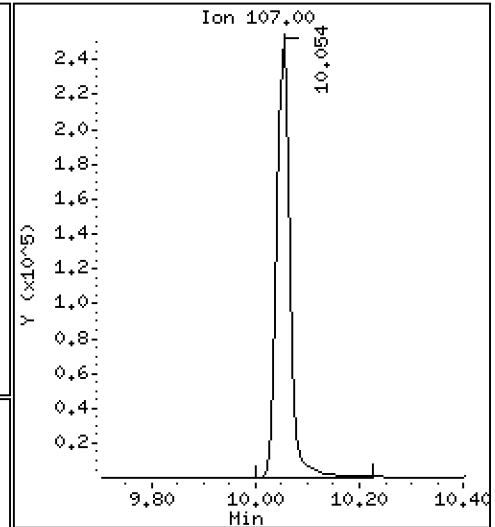
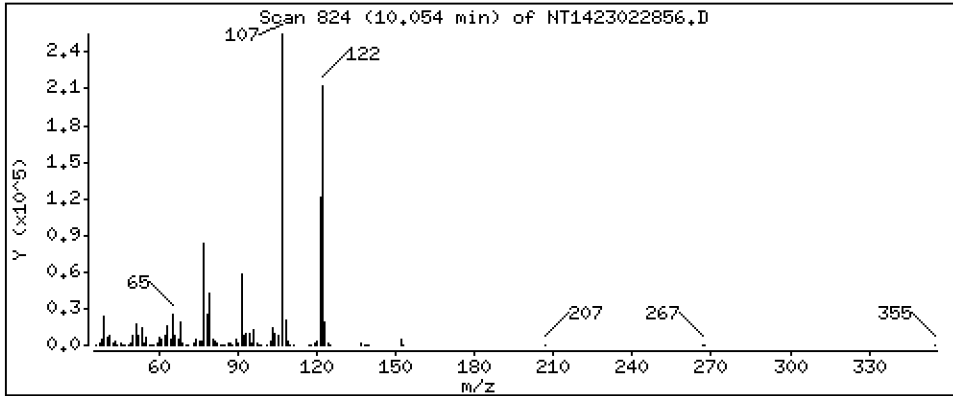
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 10,78 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

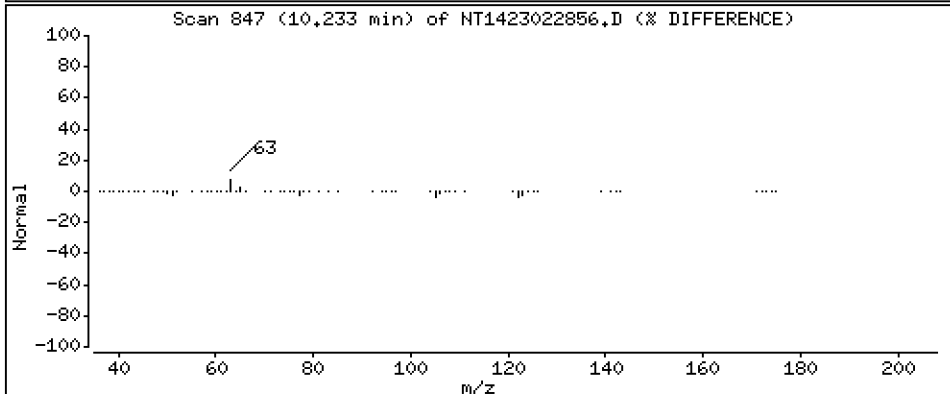
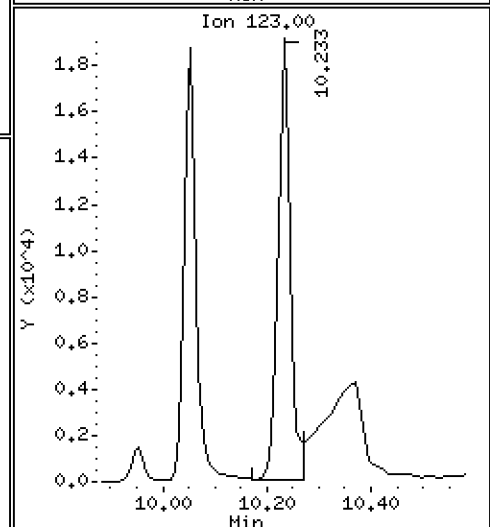
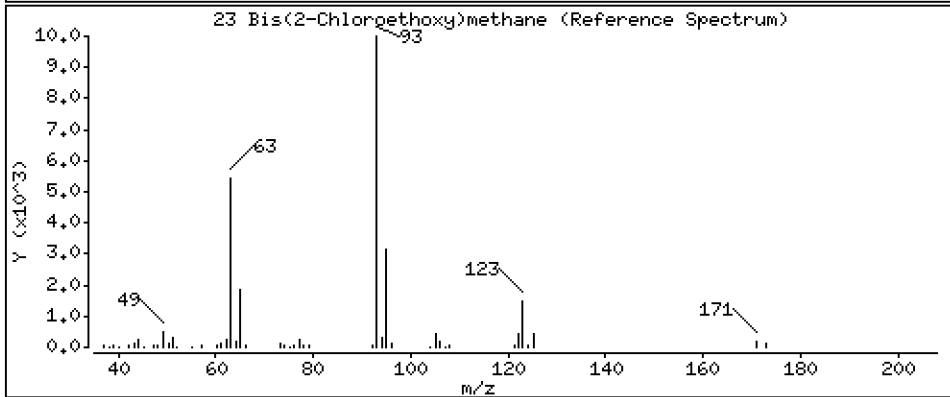
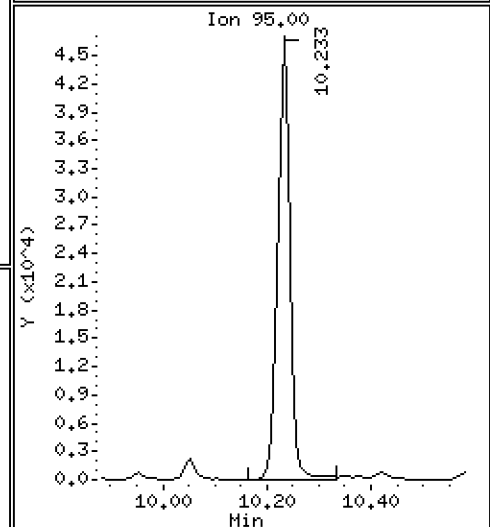
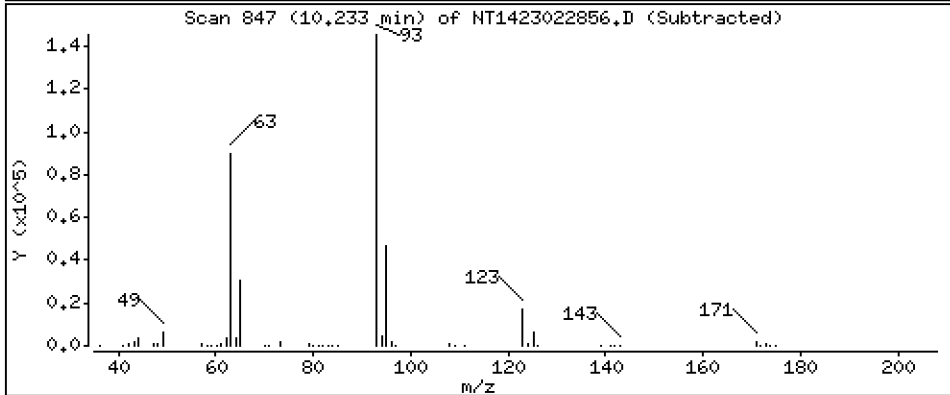
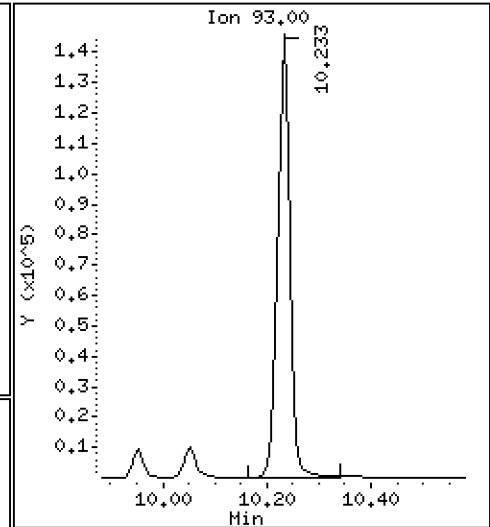
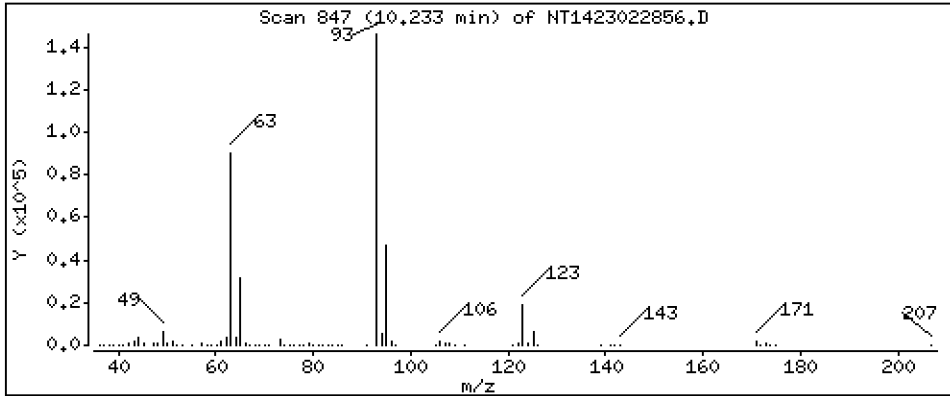
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

23 Bis(2-Chloroethoxy)methane

Concentration: 5,365 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

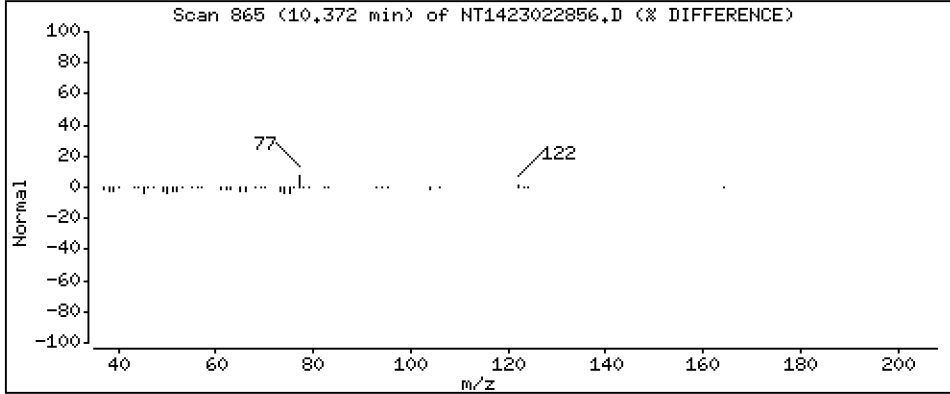
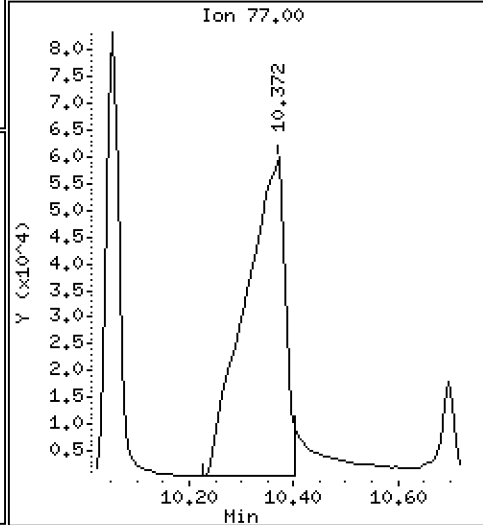
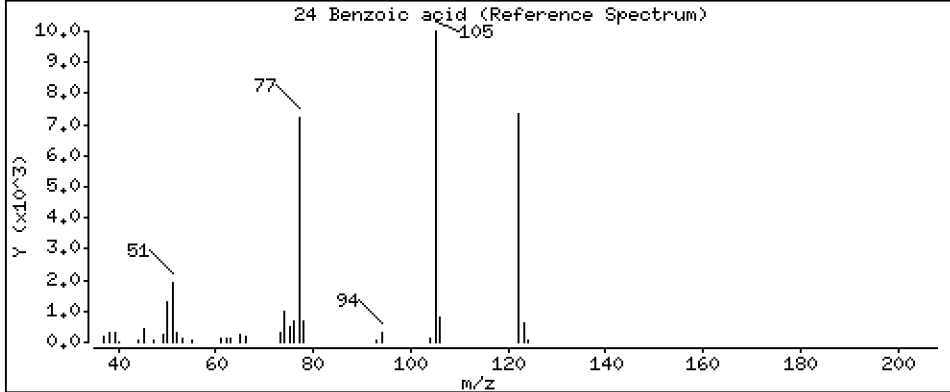
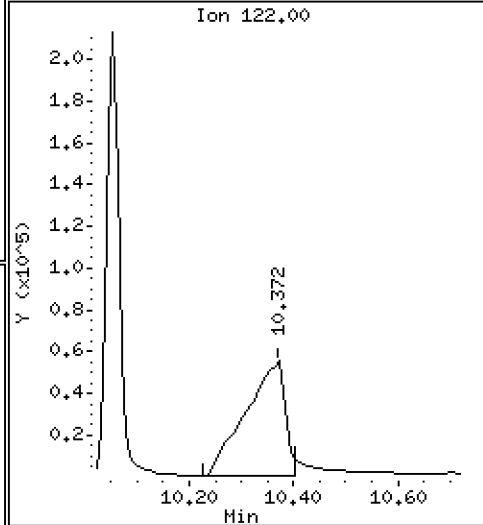
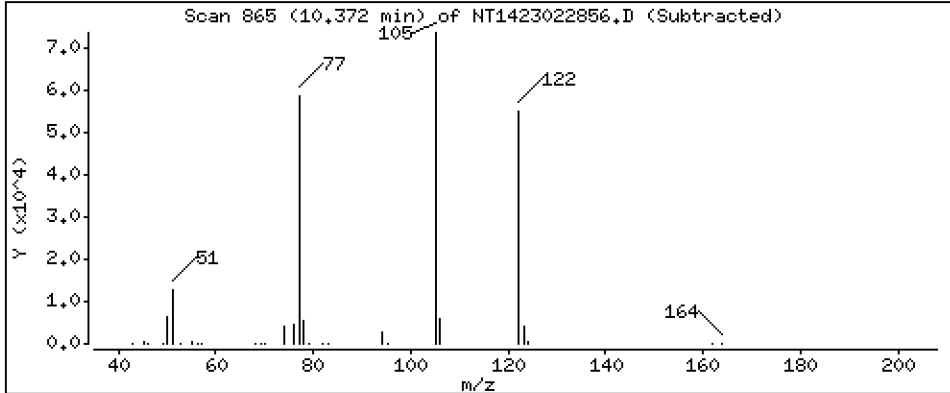
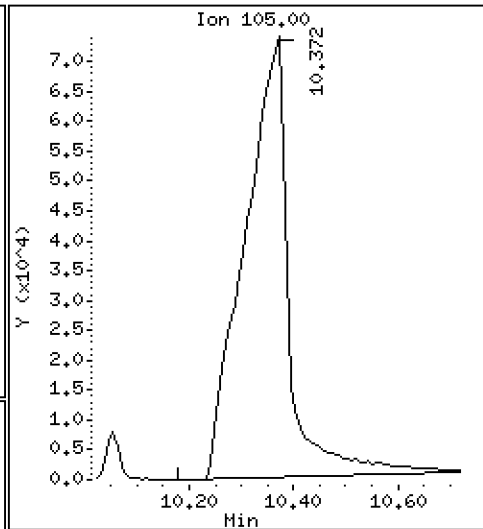
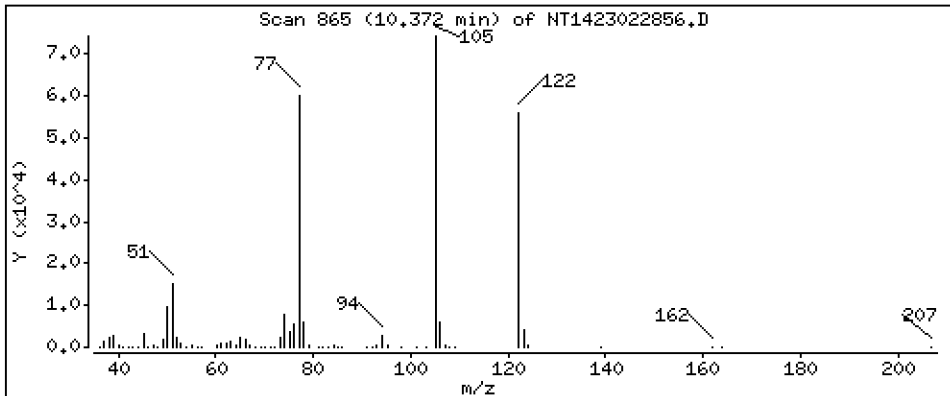
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

24 Benzoic acid

Concentration: 26,08 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

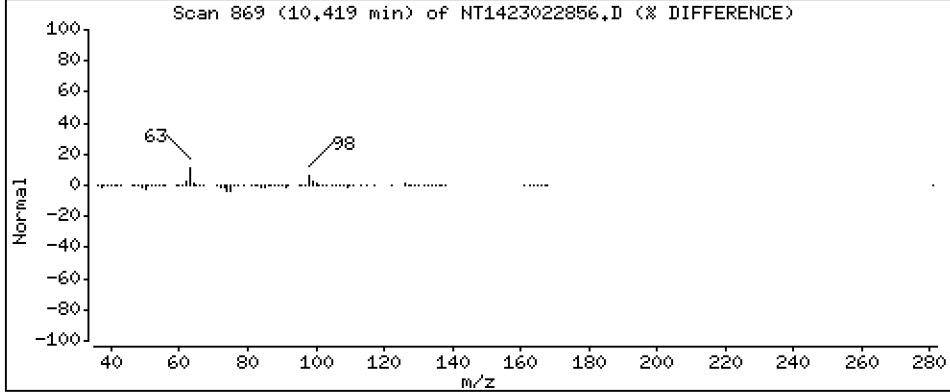
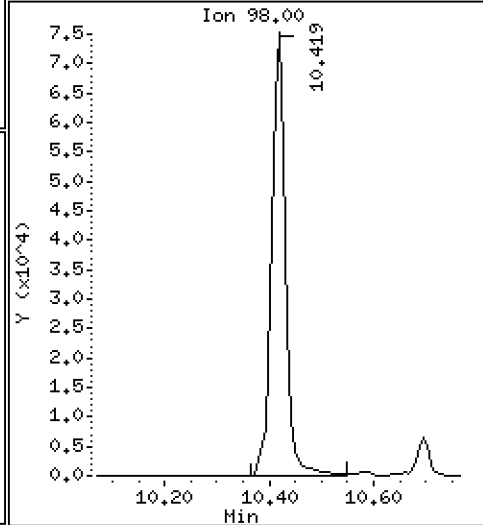
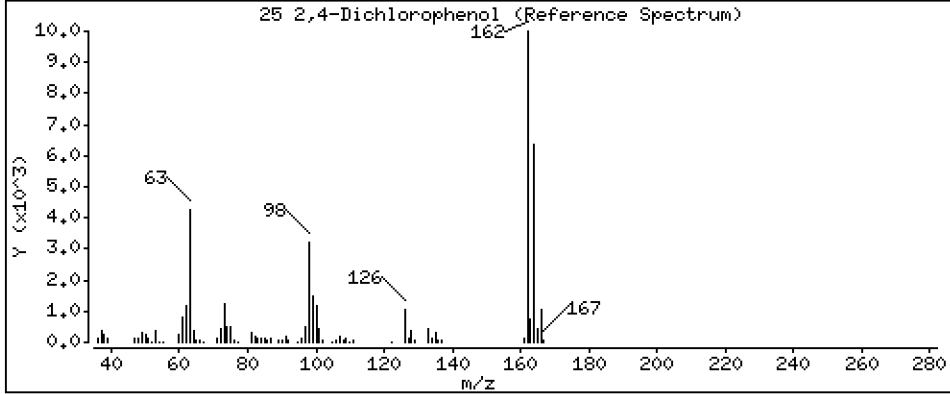
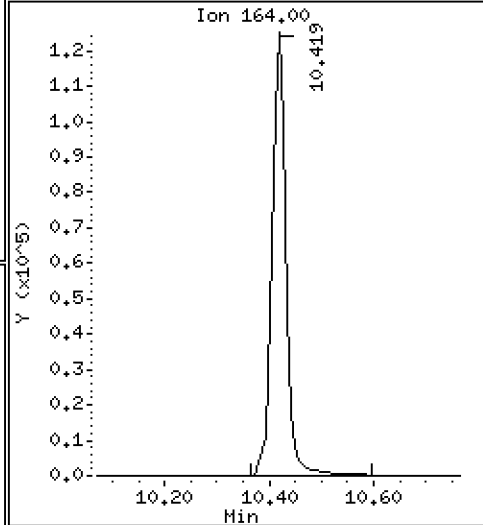
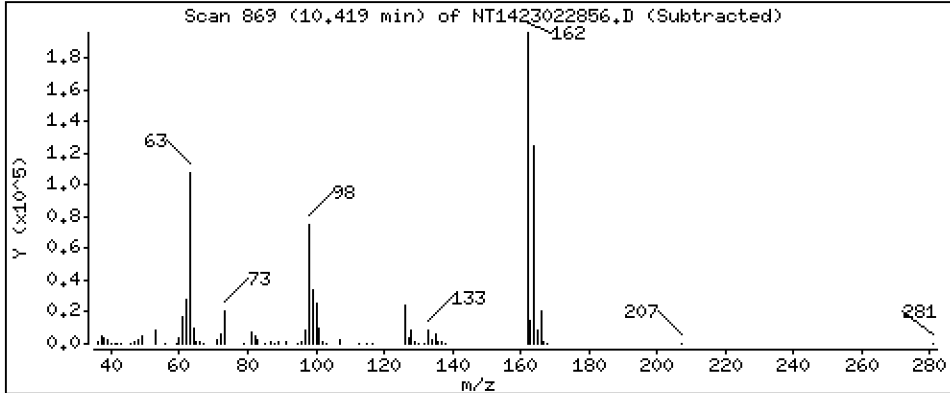
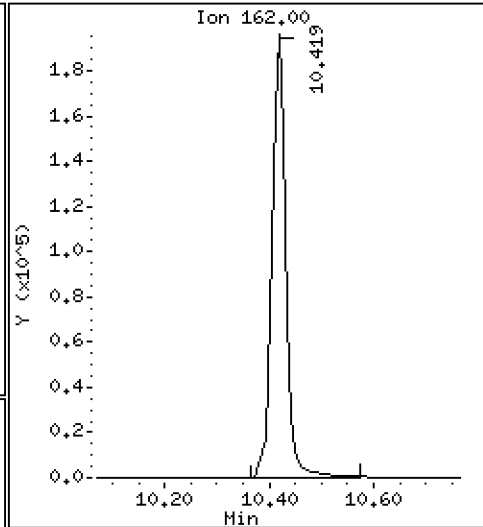
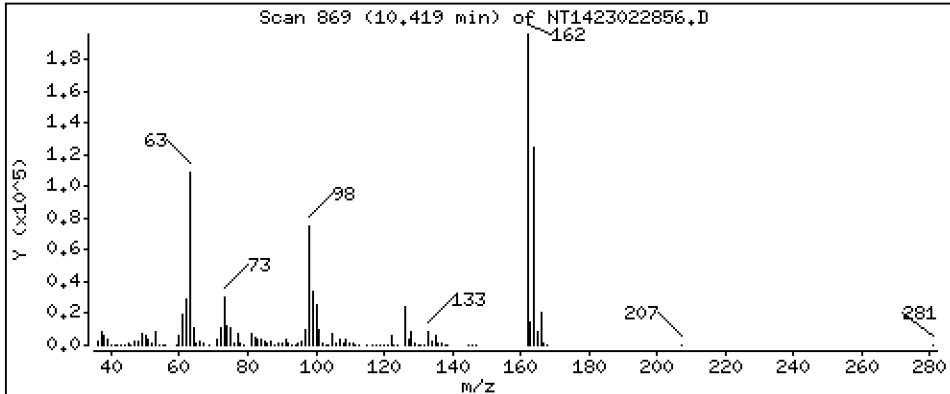
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 9,798 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

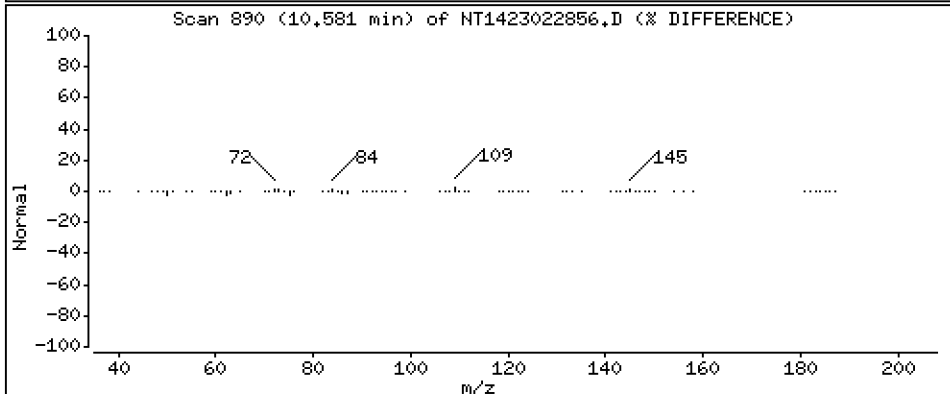
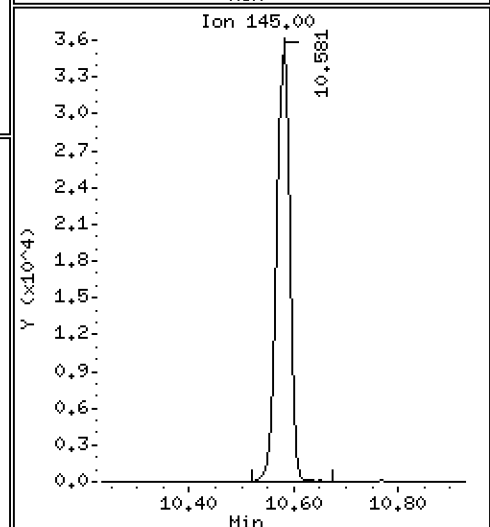
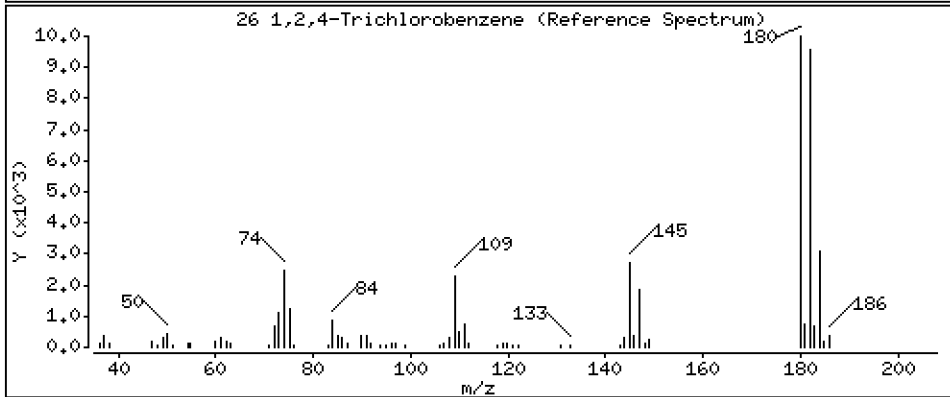
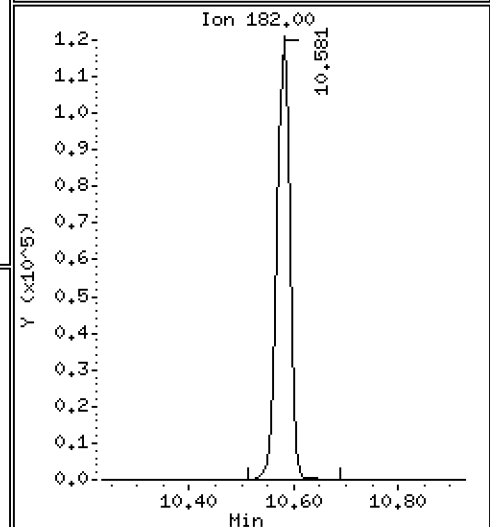
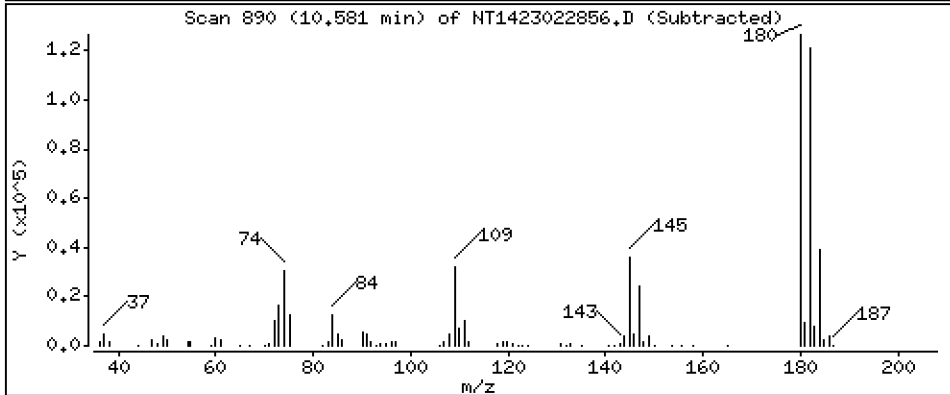
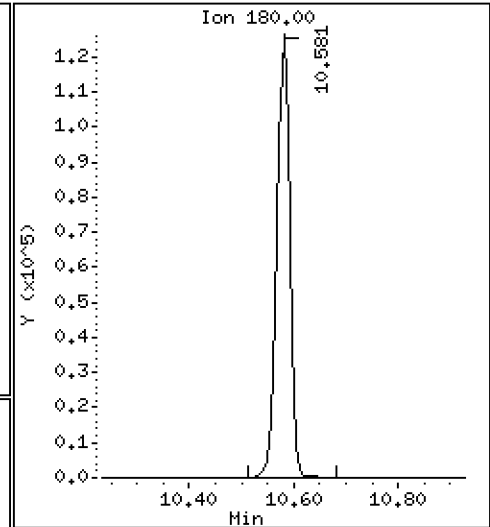
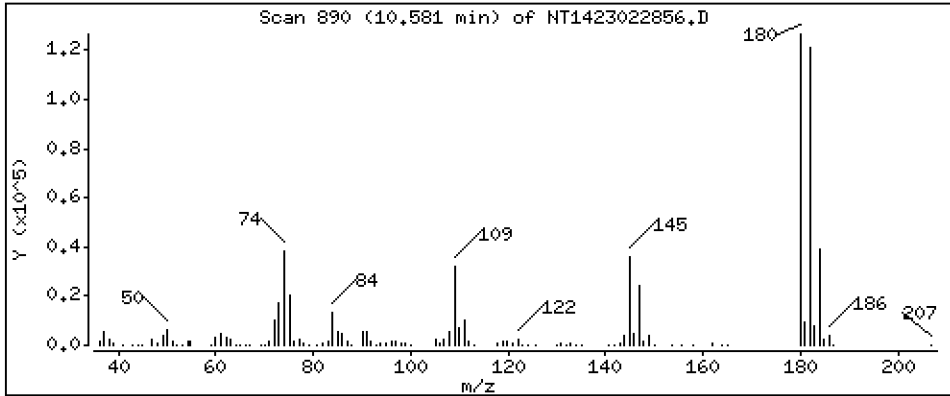
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 4,658 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

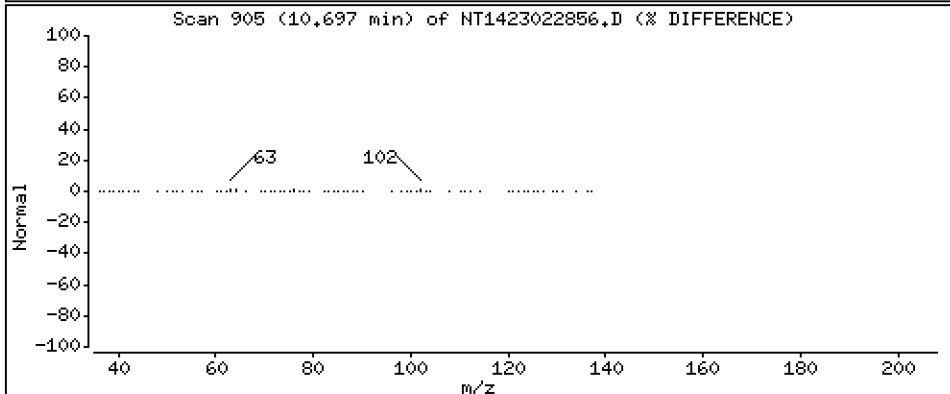
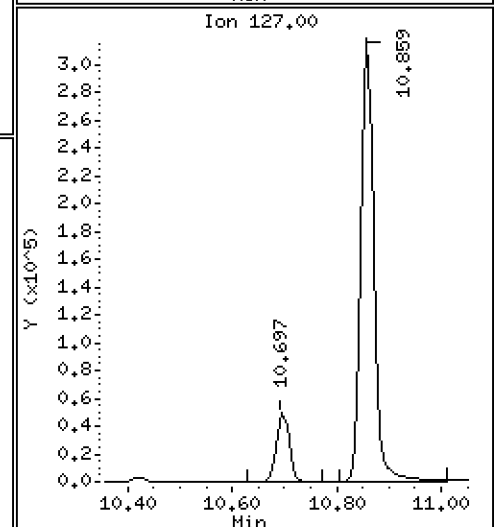
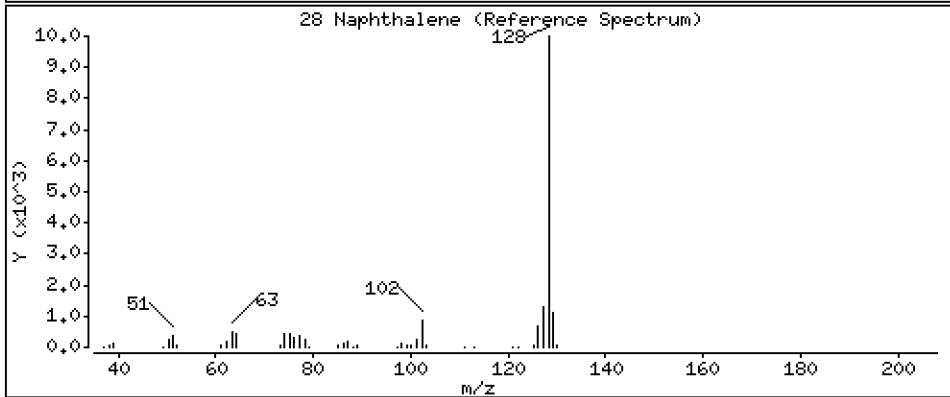
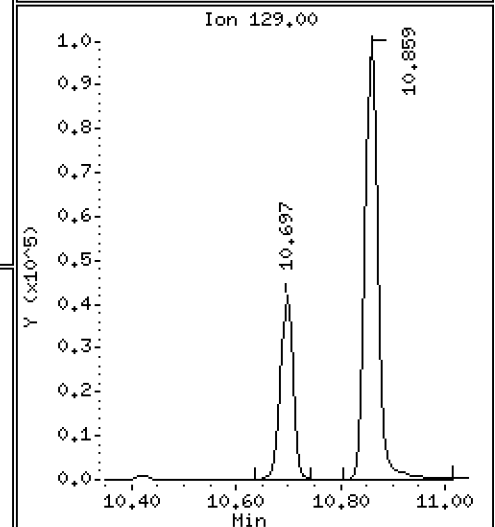
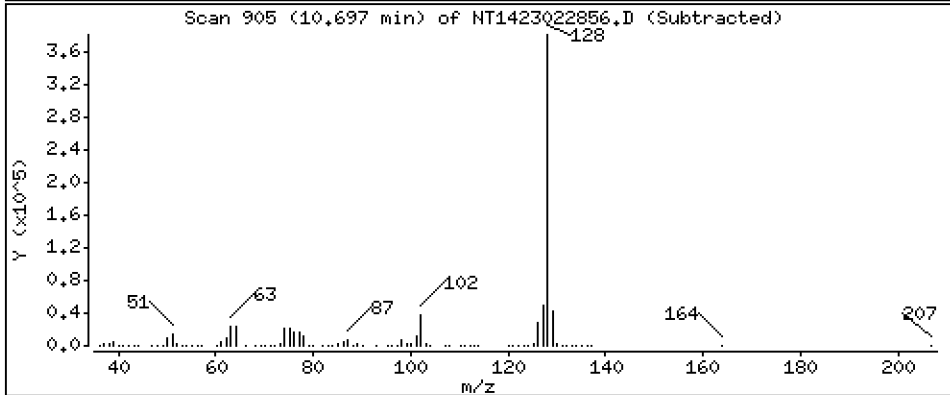
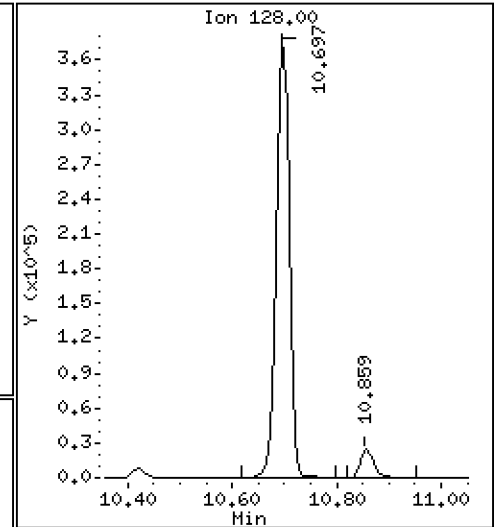
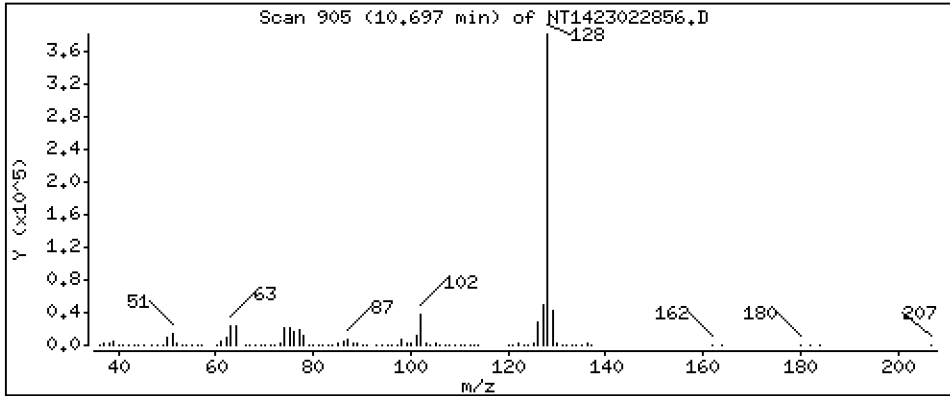
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 5,038 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

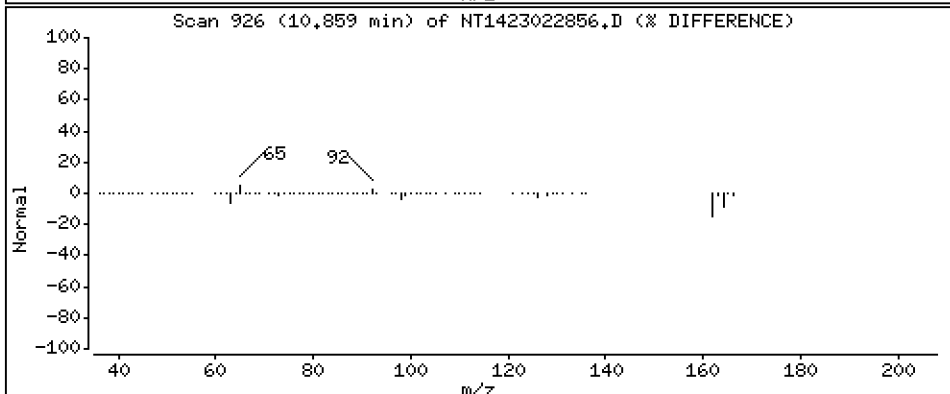
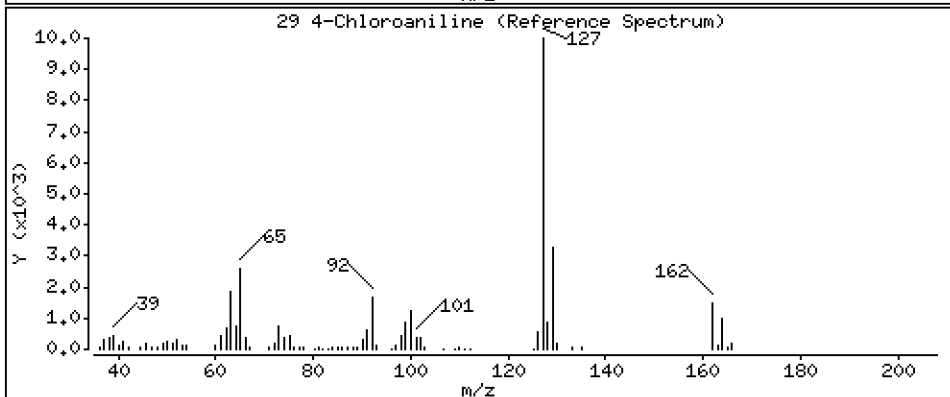
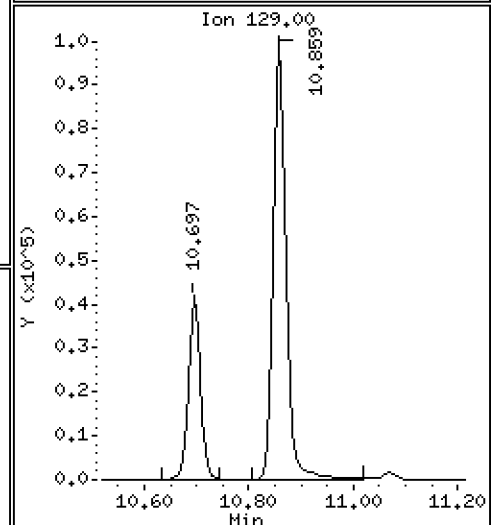
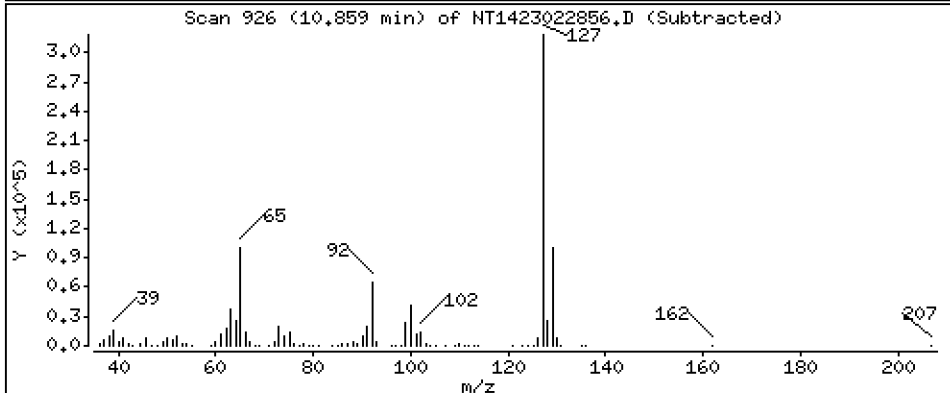
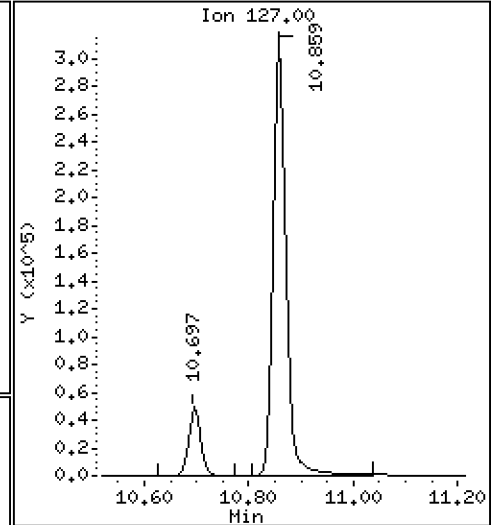
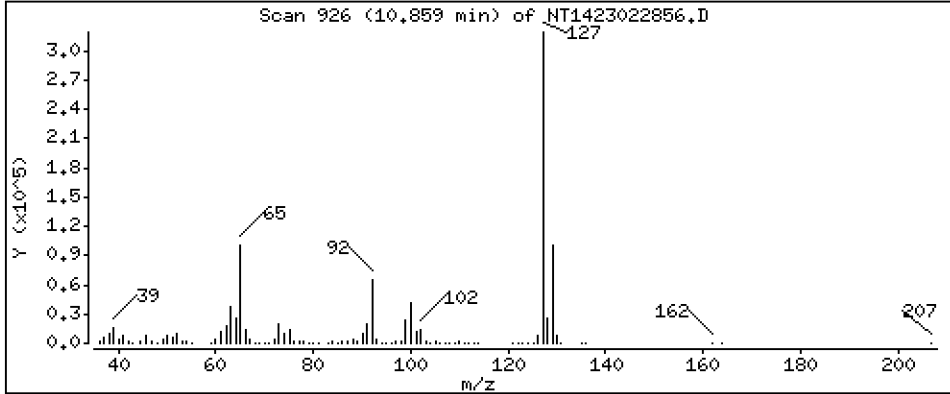
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

29 4-Chloroaniline

Concentration: 10,69 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

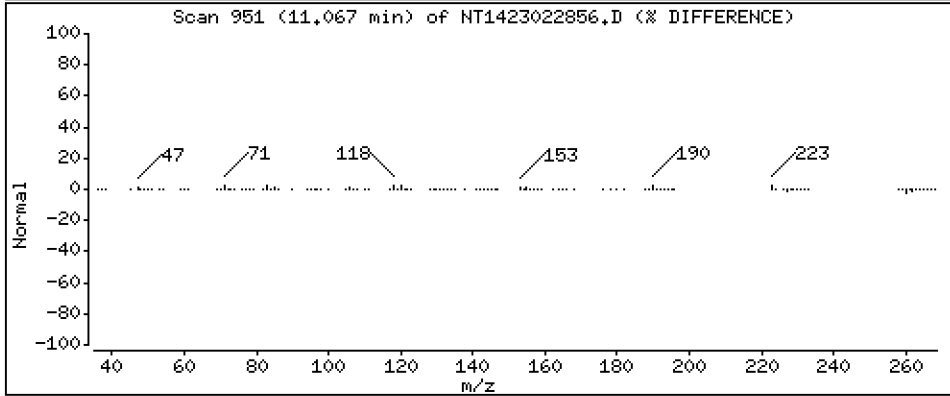
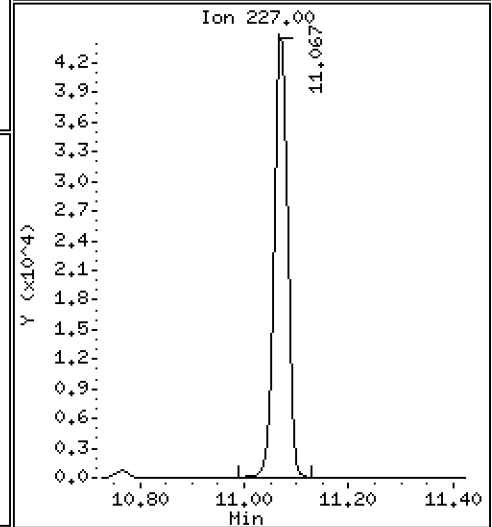
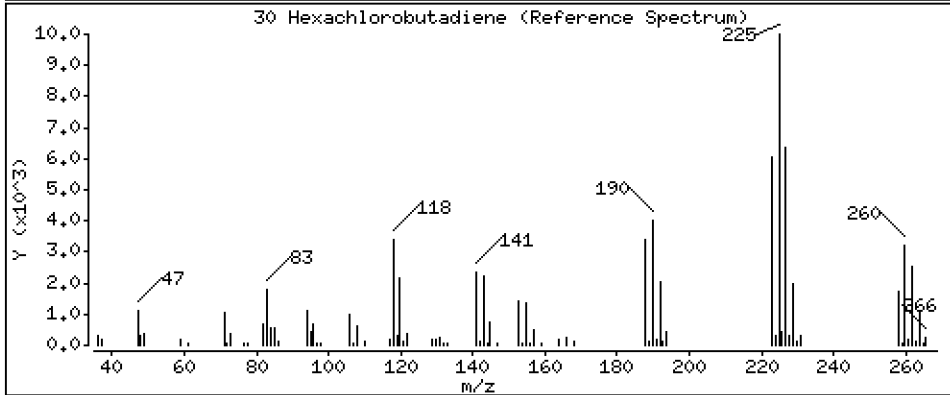
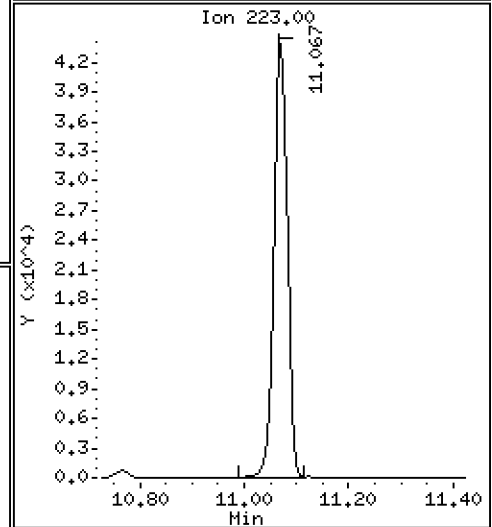
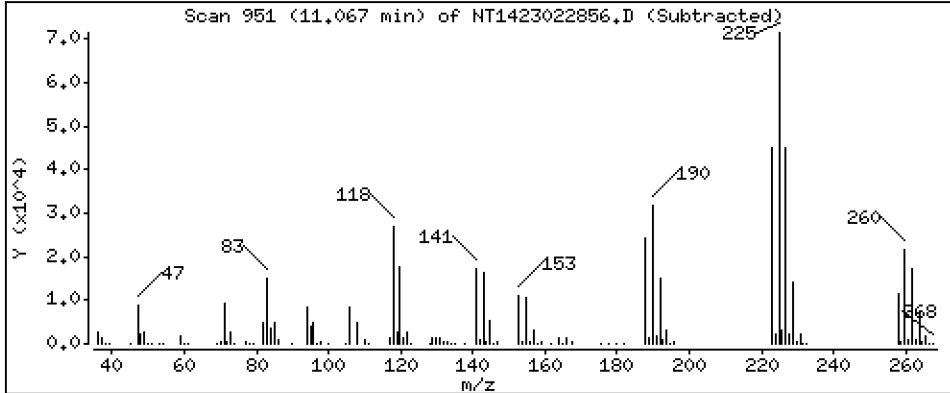
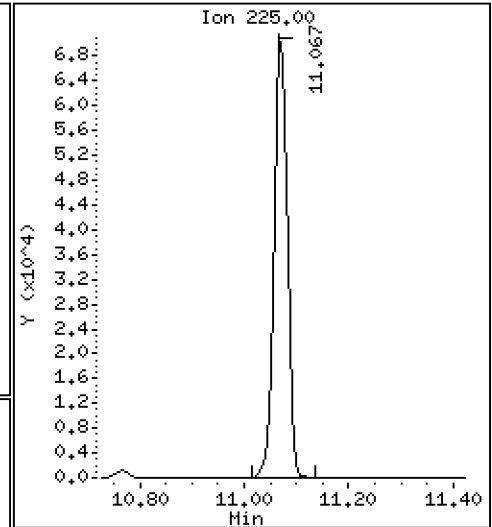
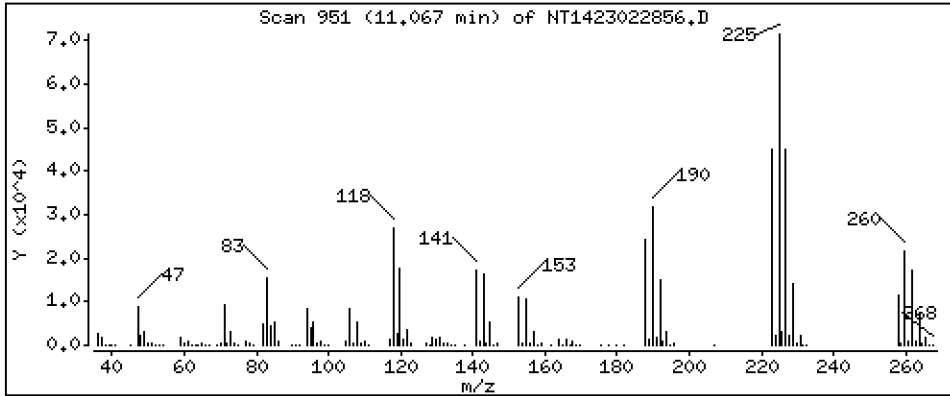
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 4,447 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

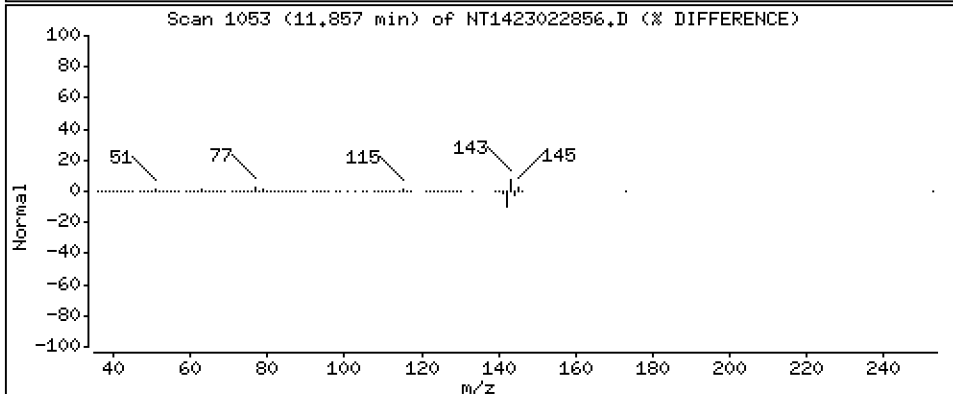
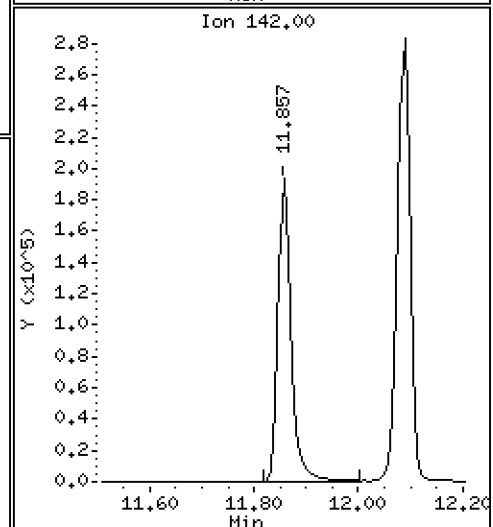
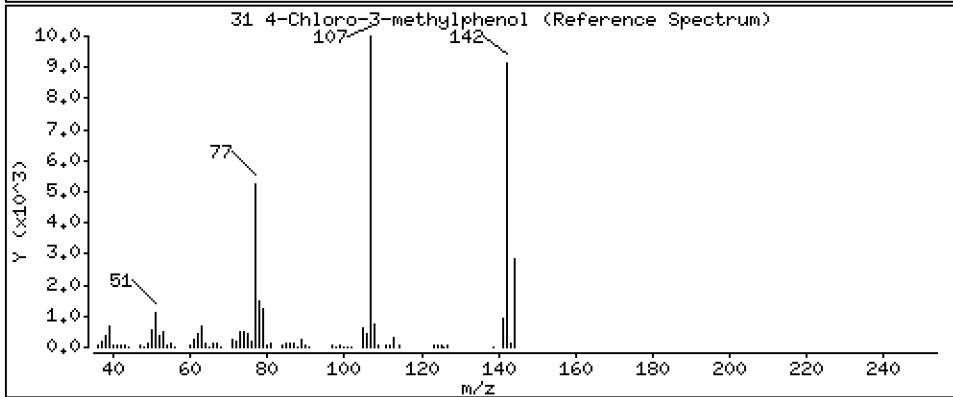
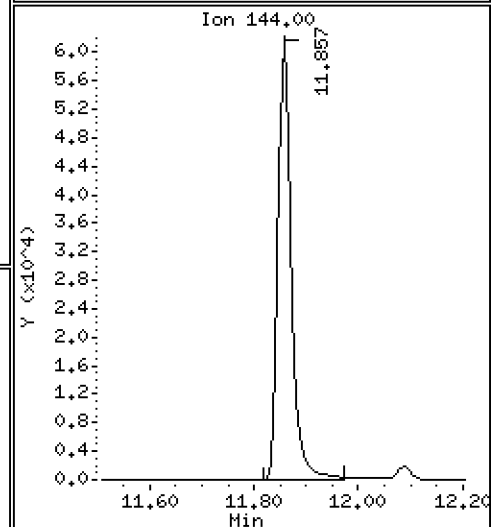
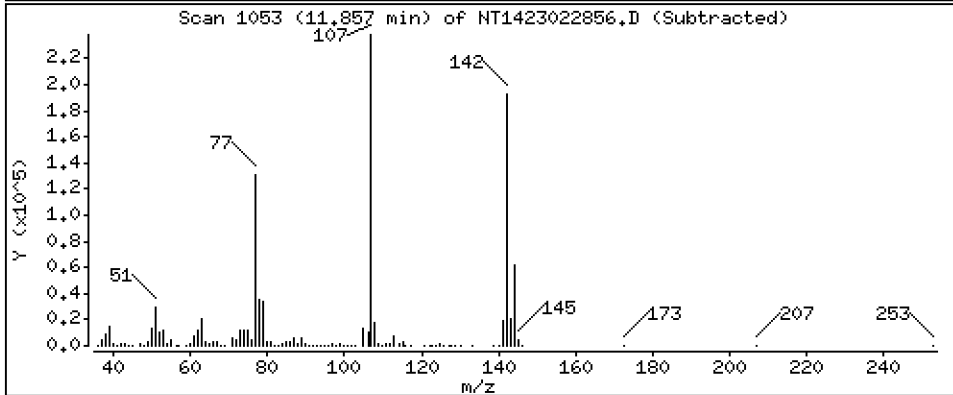
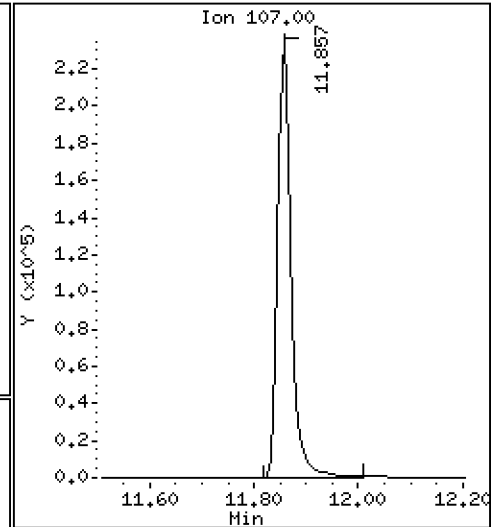
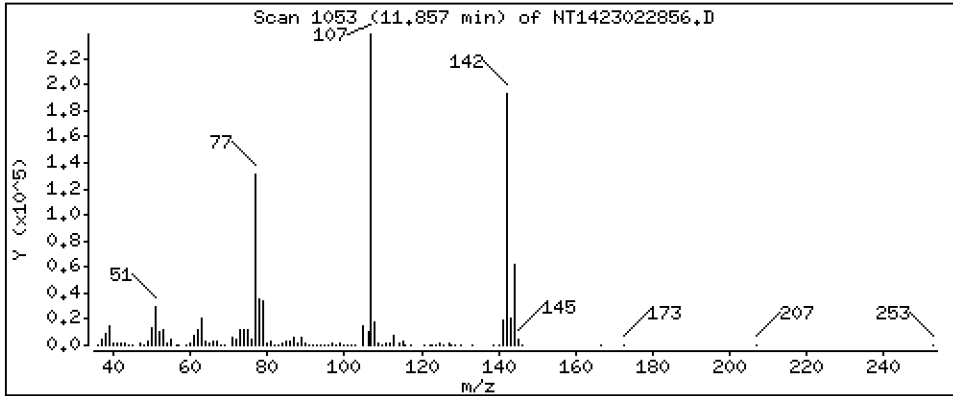
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

31 4-Chloro-3-methylphenol

Concentration: 11,21 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

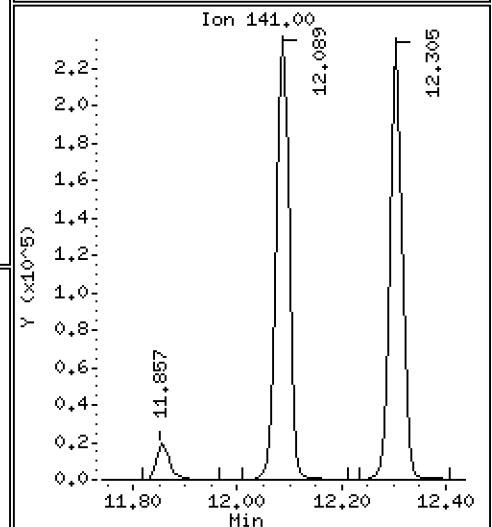
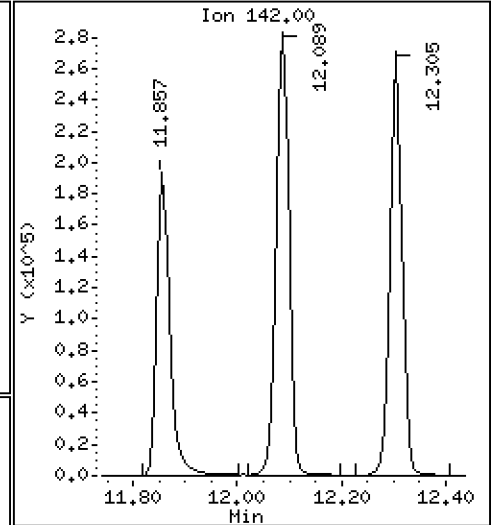
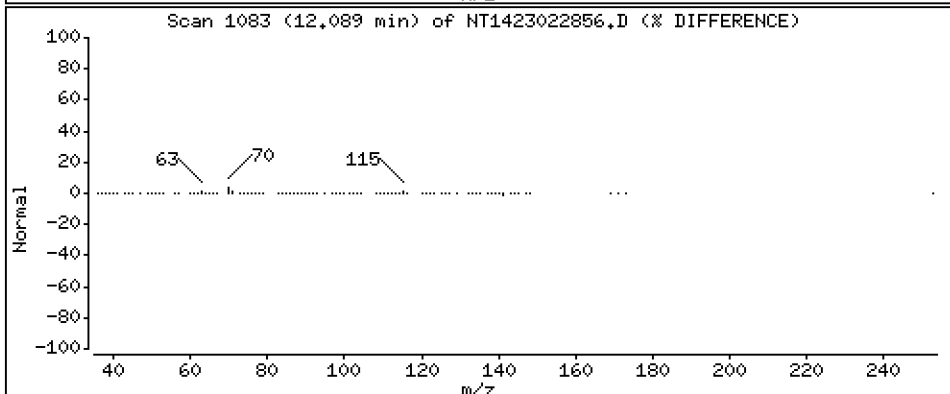
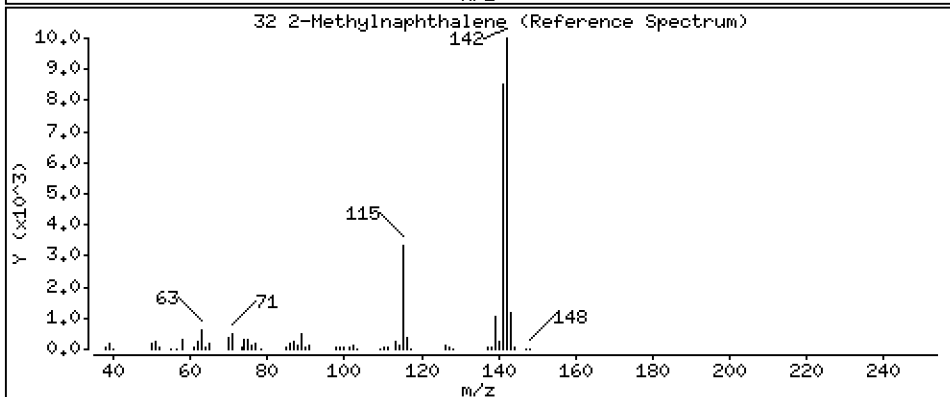
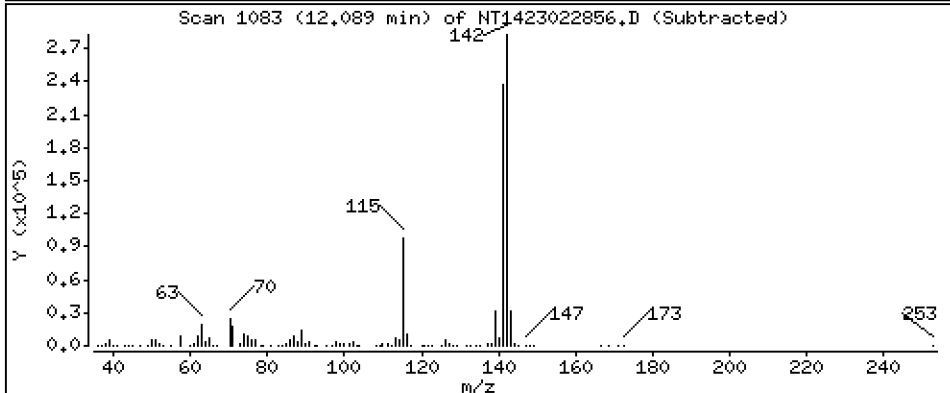
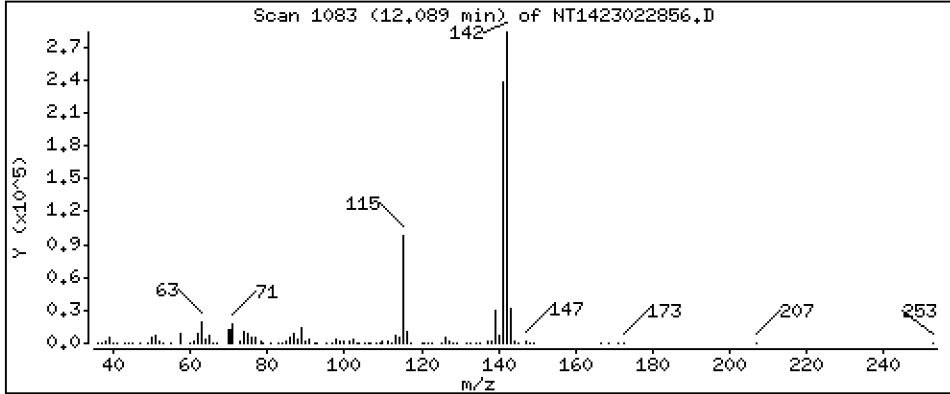
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 5,091 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

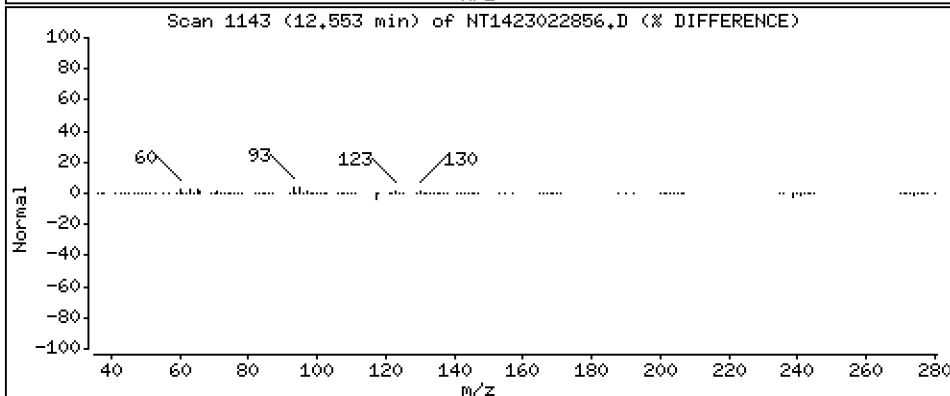
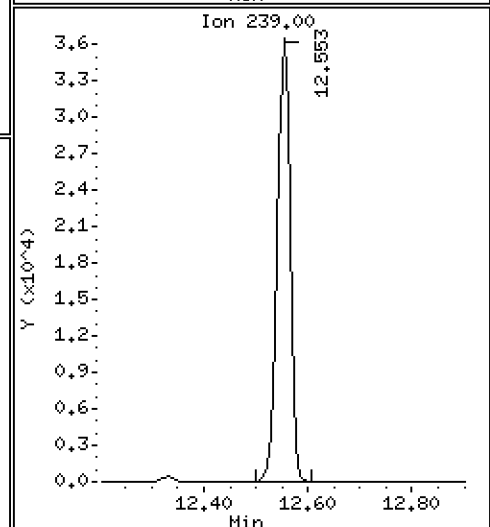
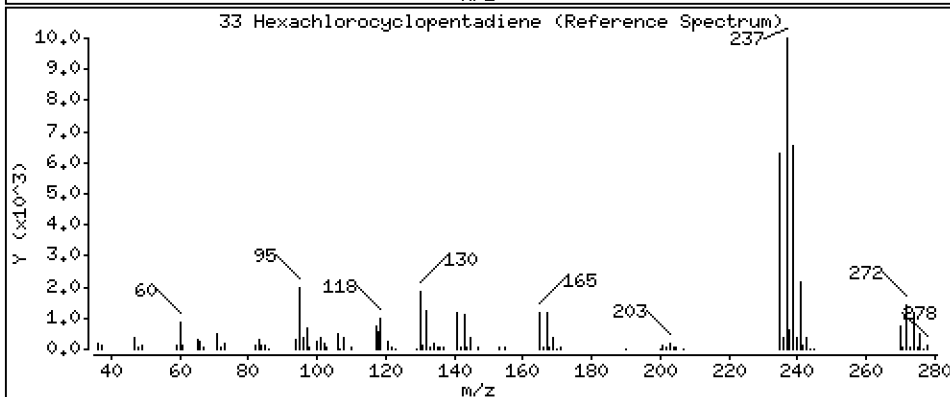
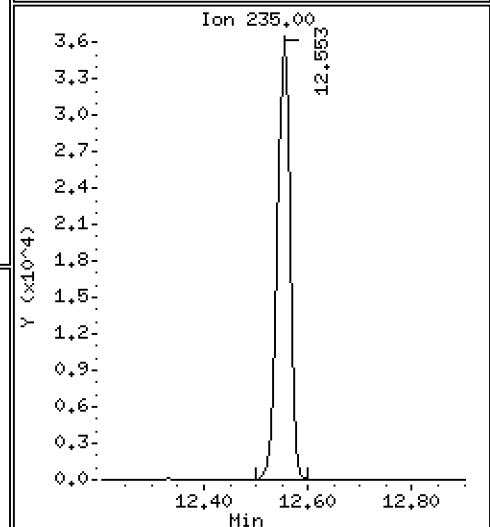
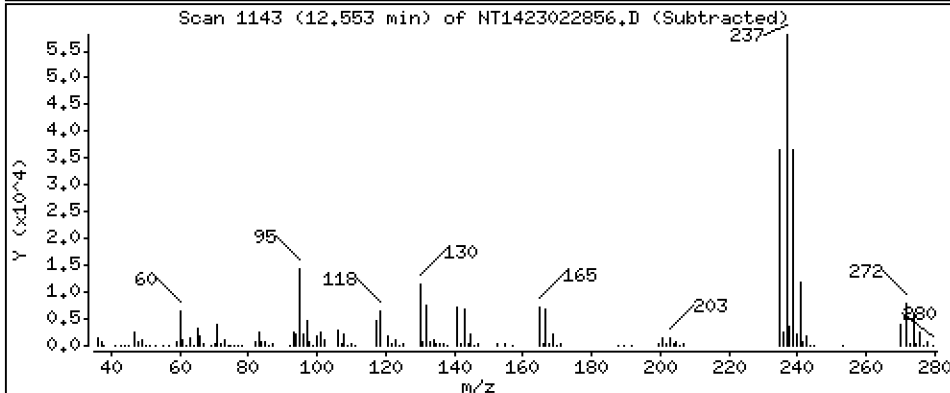
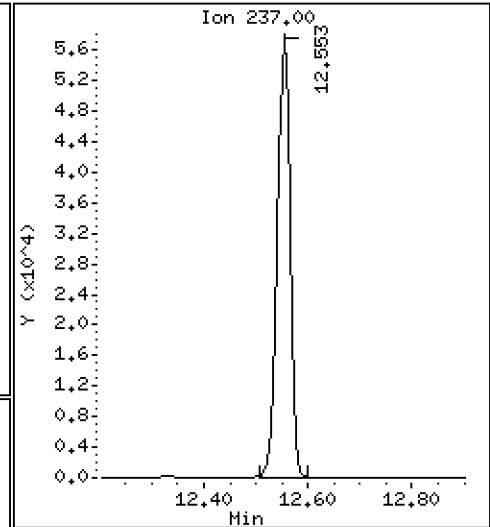
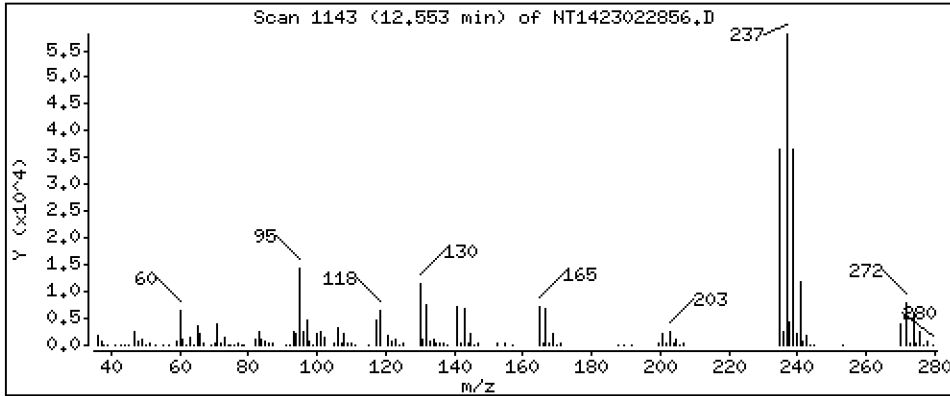
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

33 Hexachlorocyclopentadiene

Concentration: 3,270 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

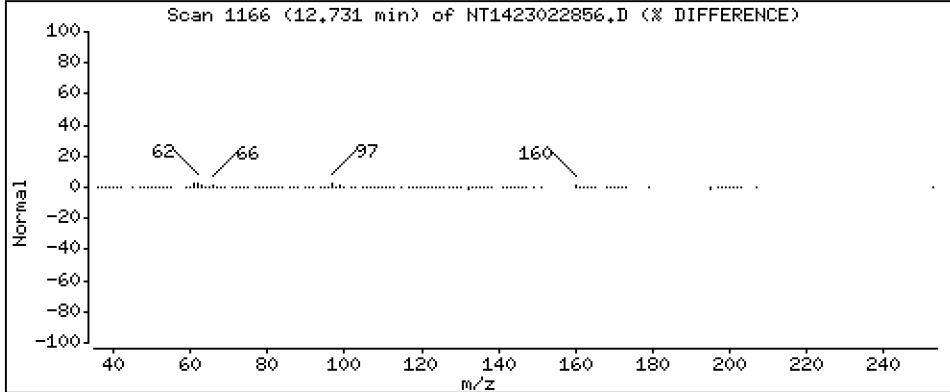
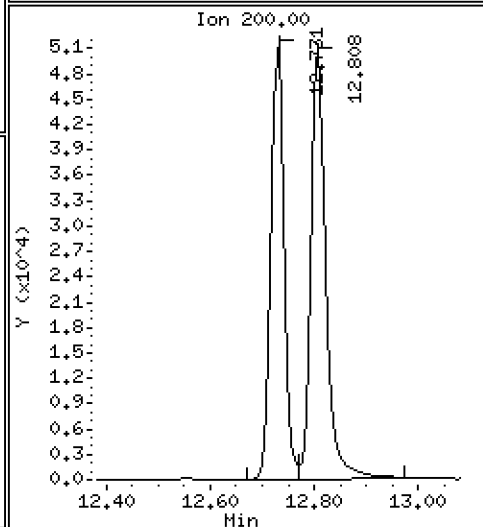
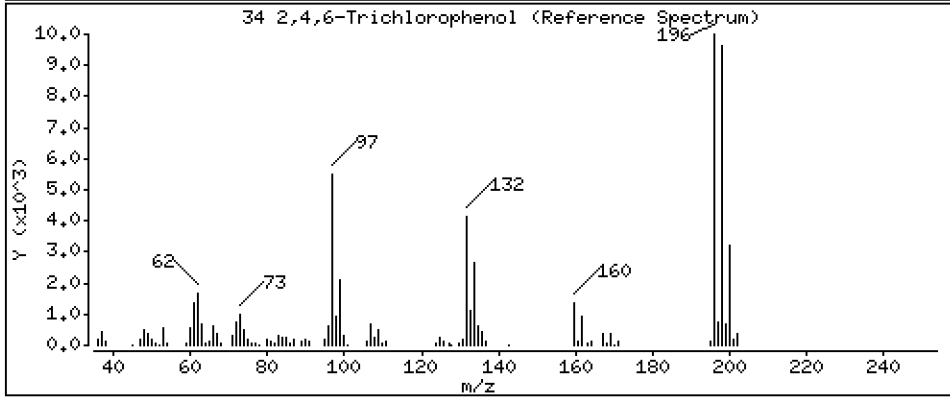
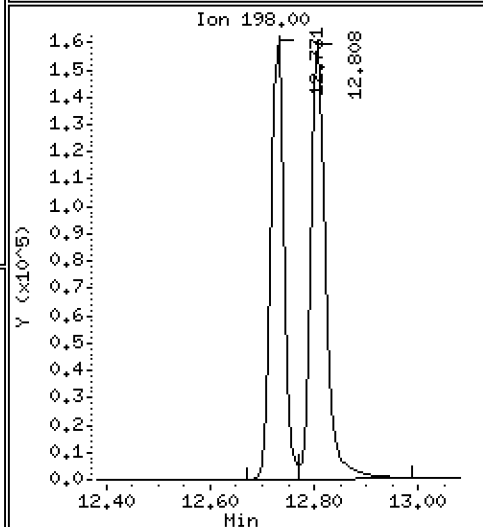
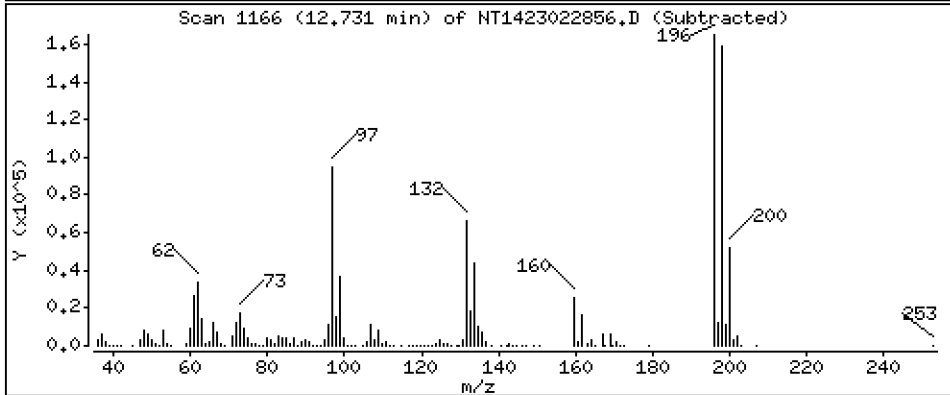
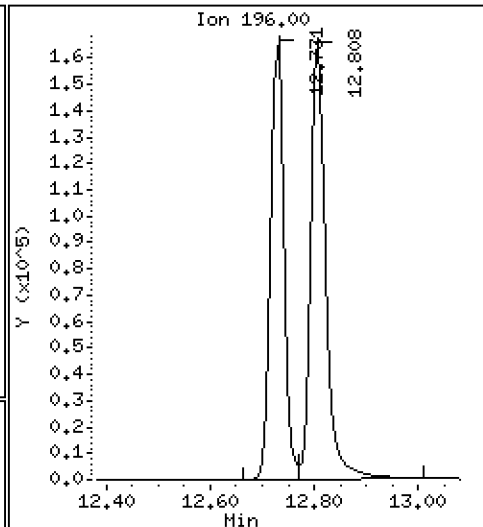
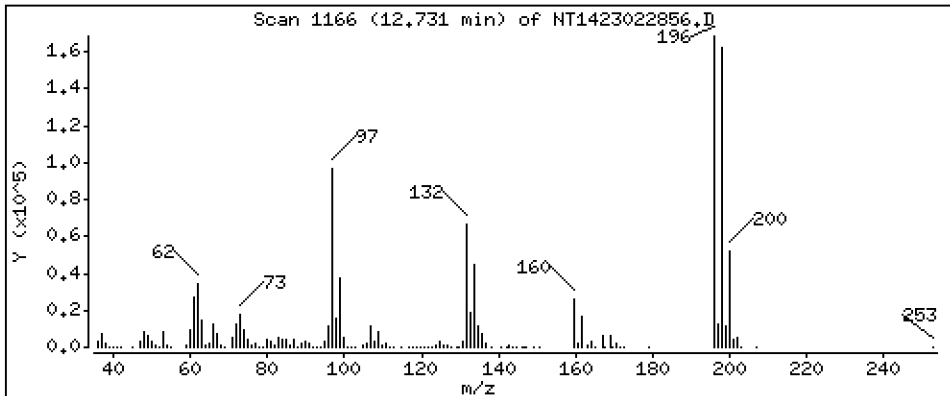
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

34 2,4,6-Trichlorophenol

Concentration: 10,58 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

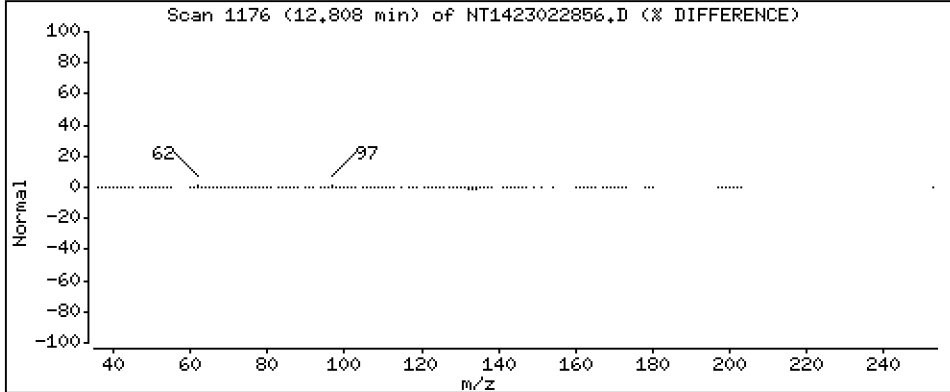
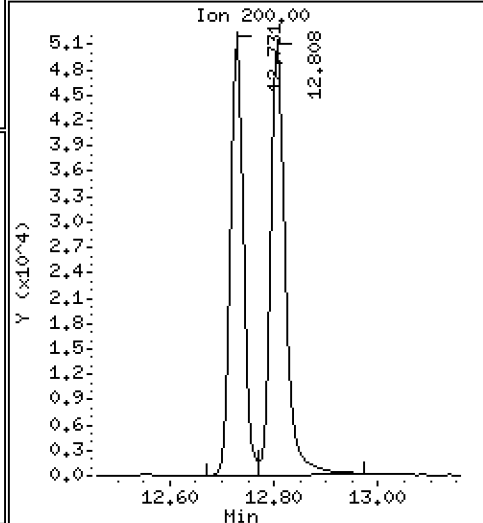
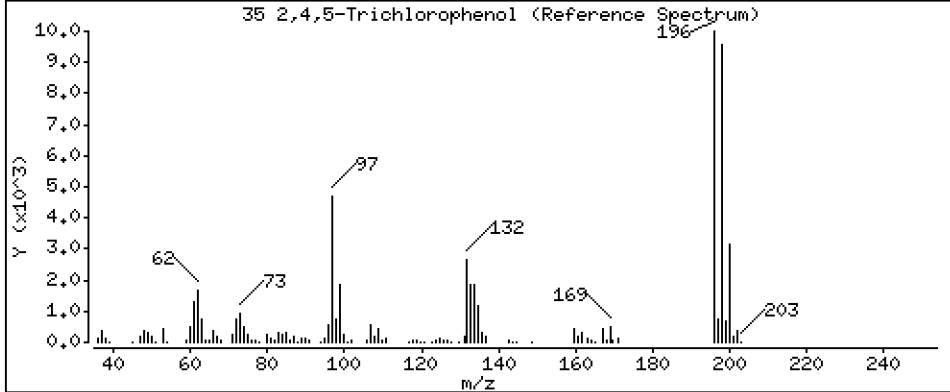
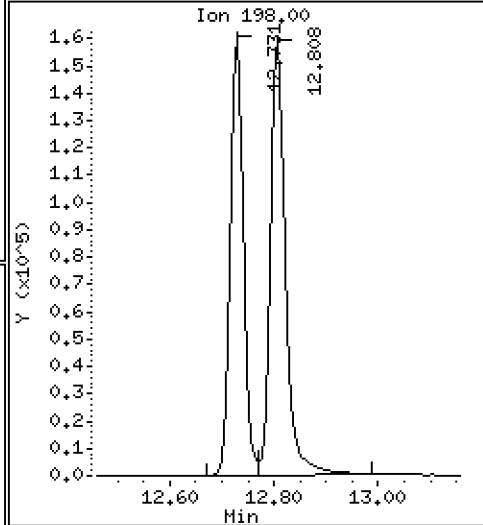
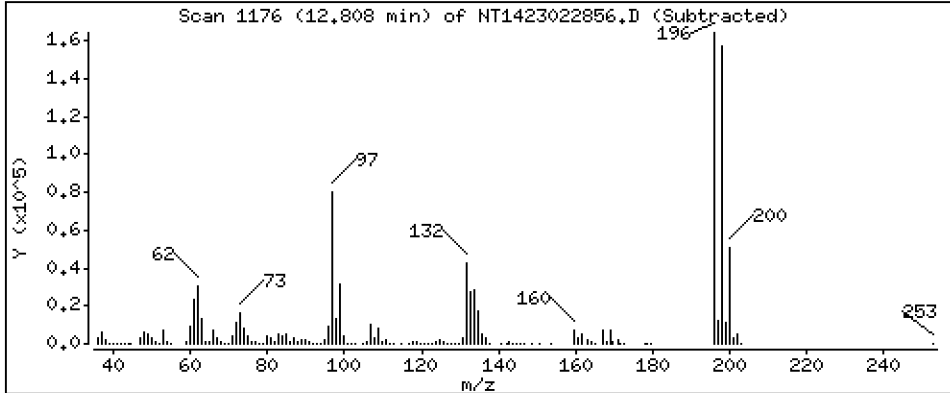
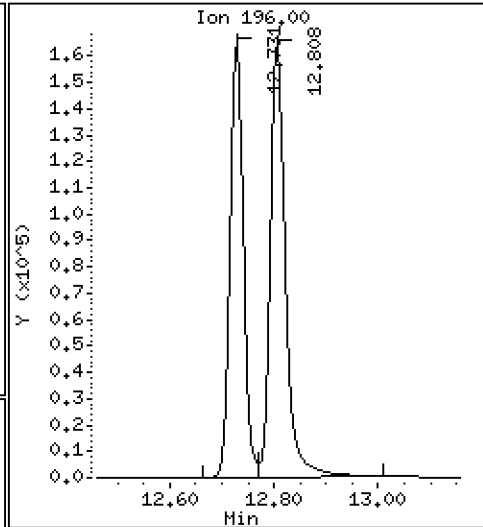
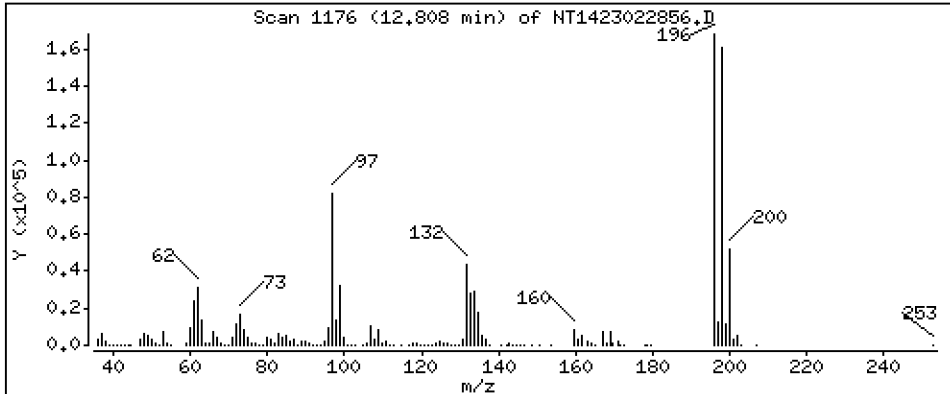
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

35 2,4,5-Trichlorophenol

Concentration: 11,12 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

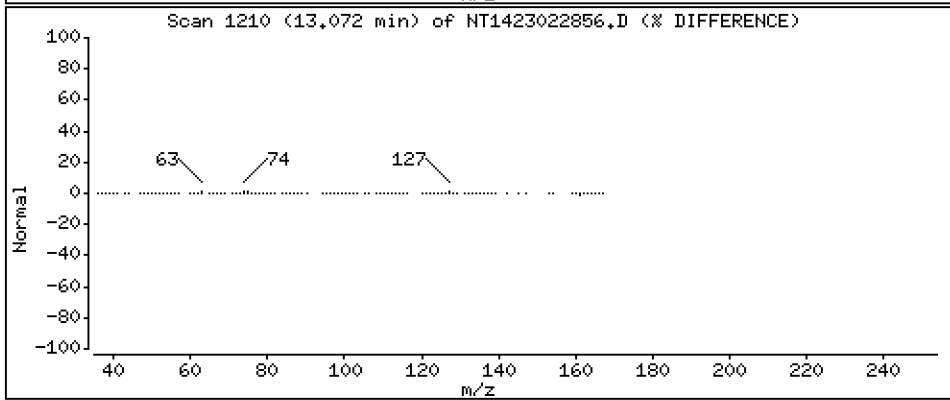
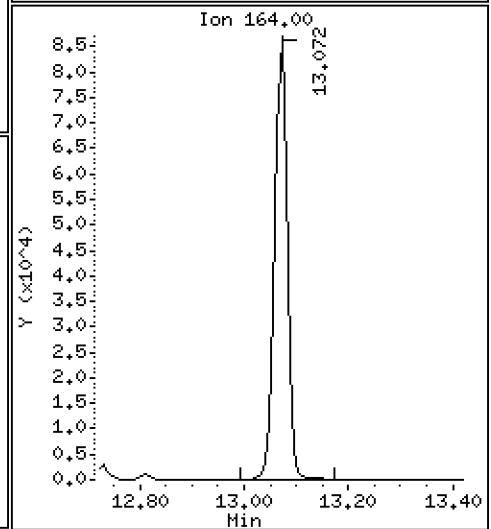
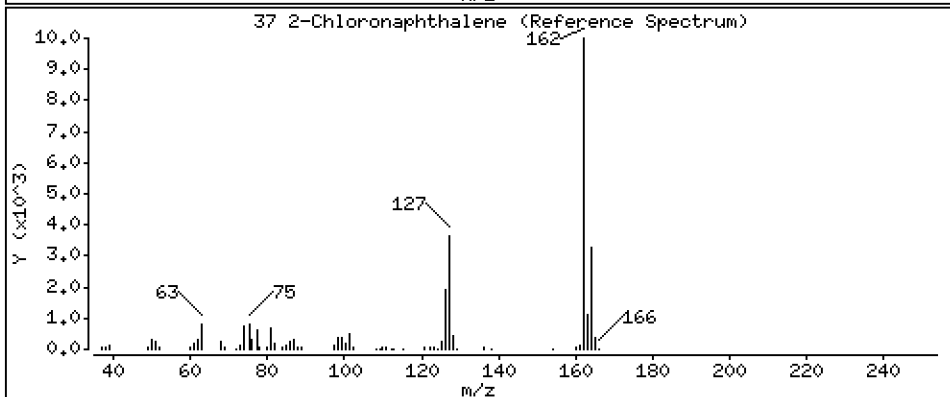
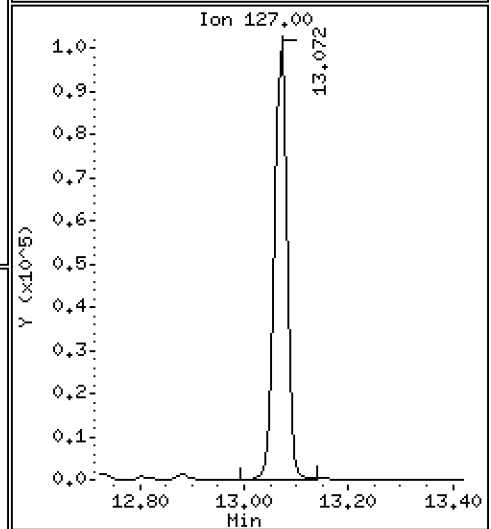
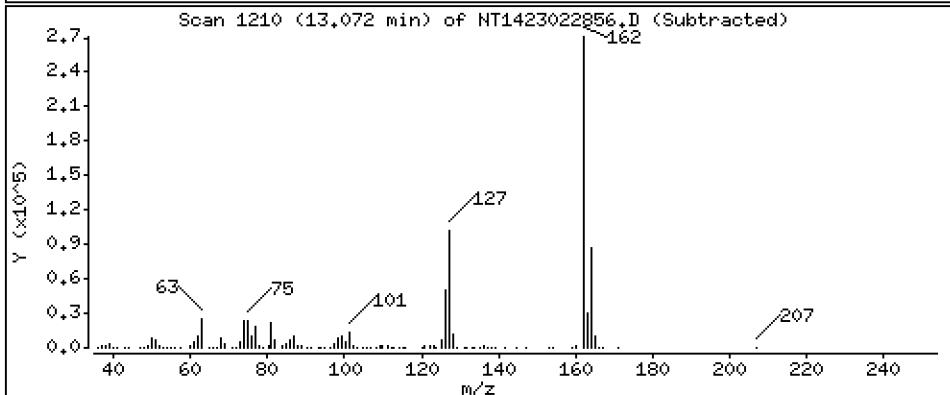
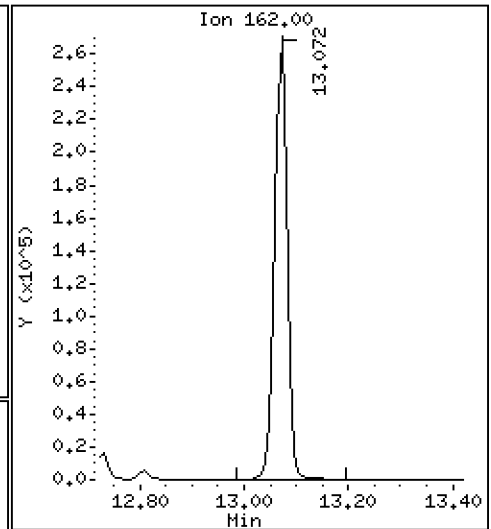
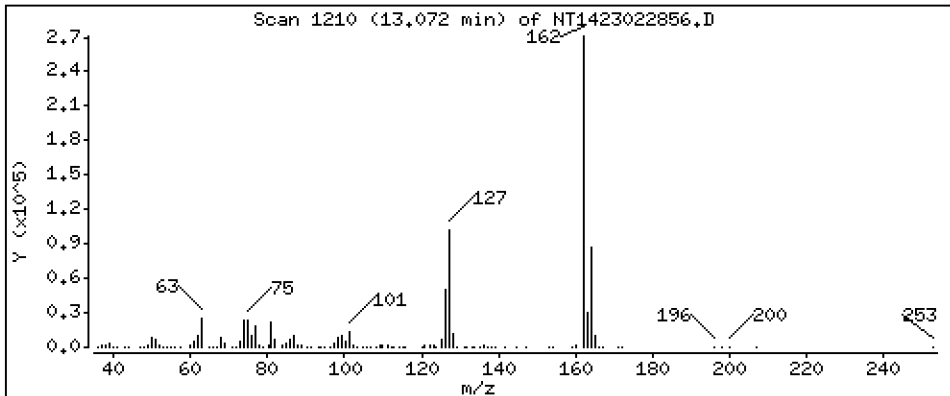
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

37 2-Chloronaphthalene

Concentration: 5,056 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

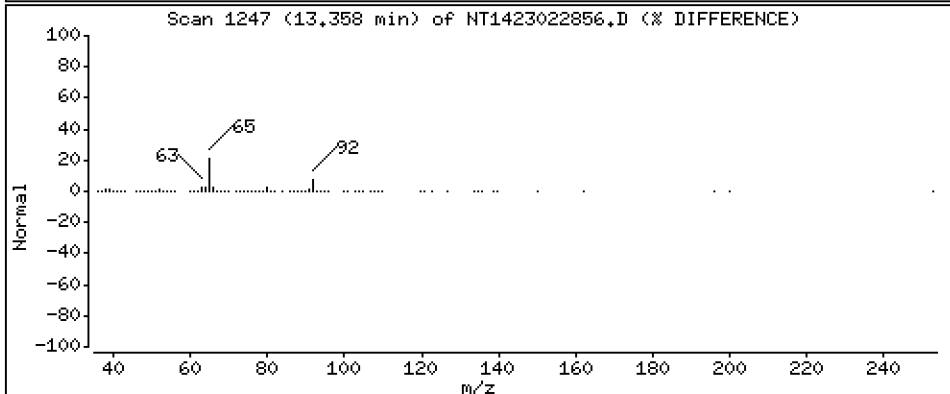
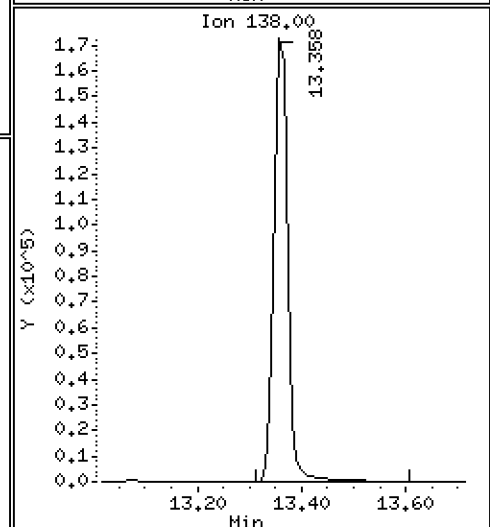
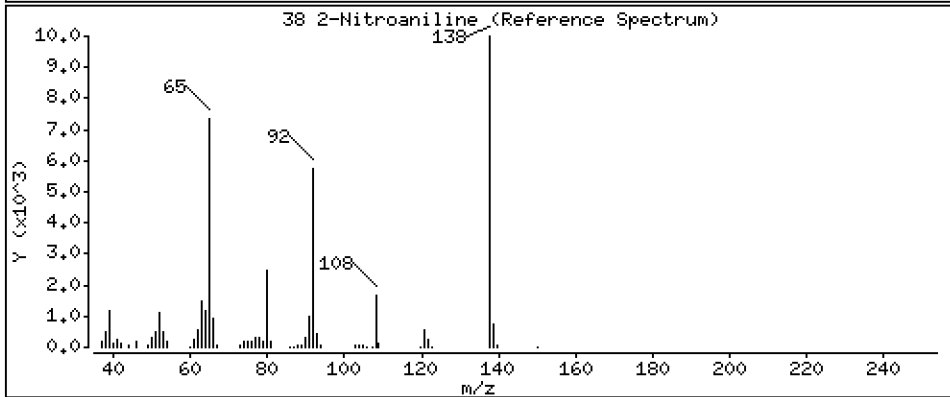
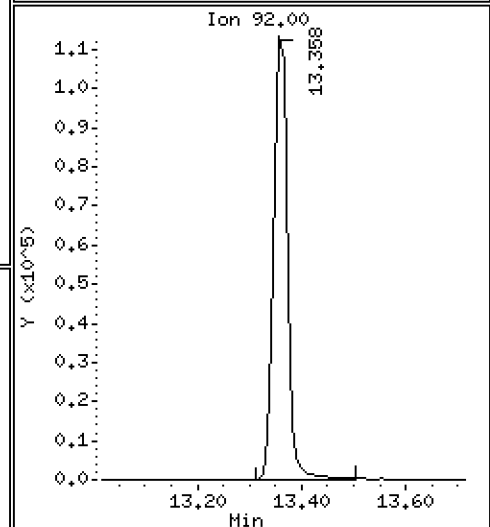
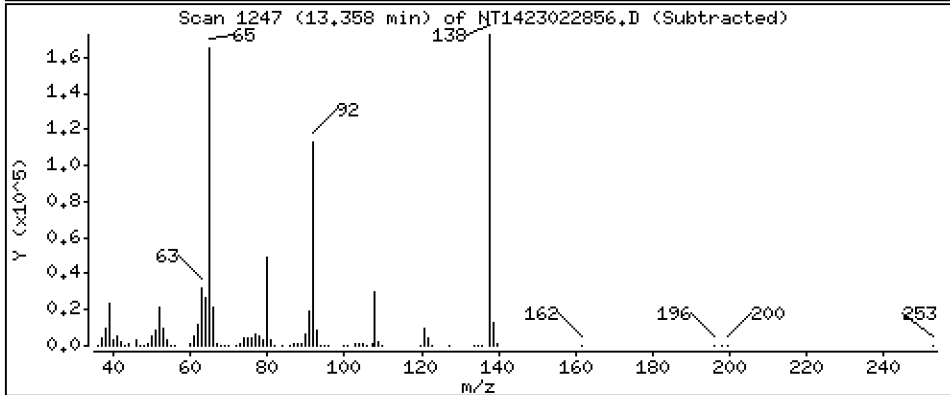
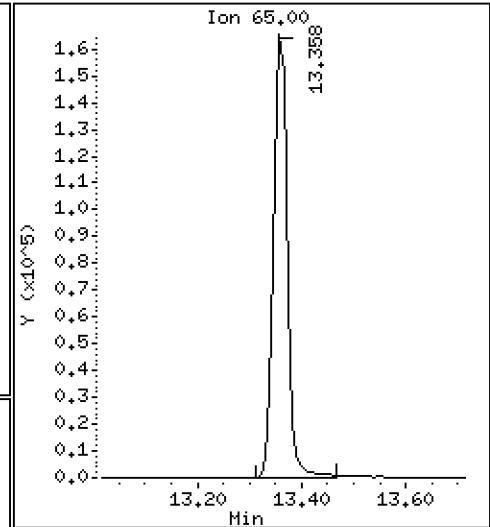
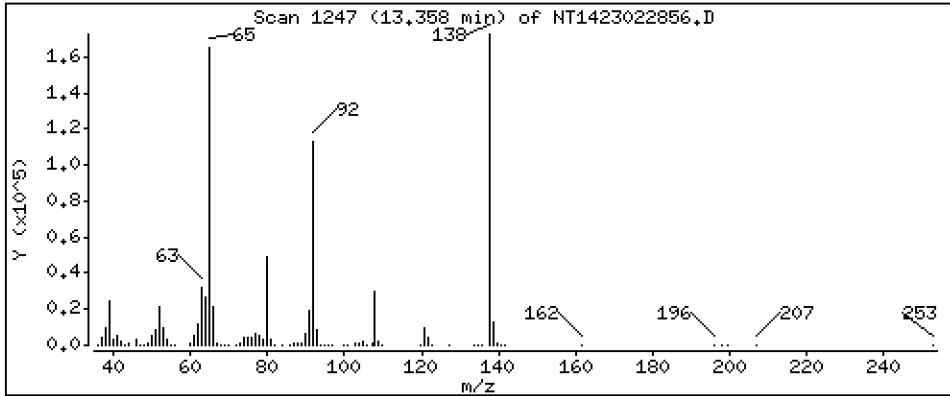
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

38 2-Nitroaniline

Concentration: 12,94 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

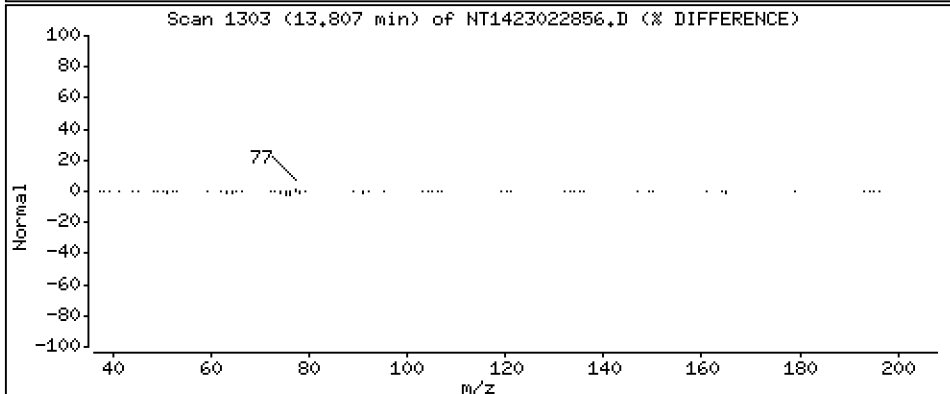
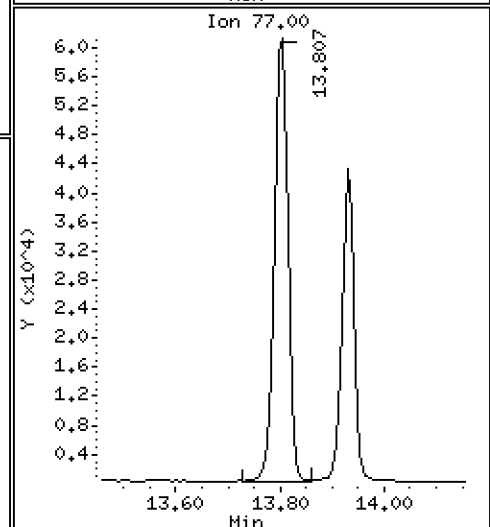
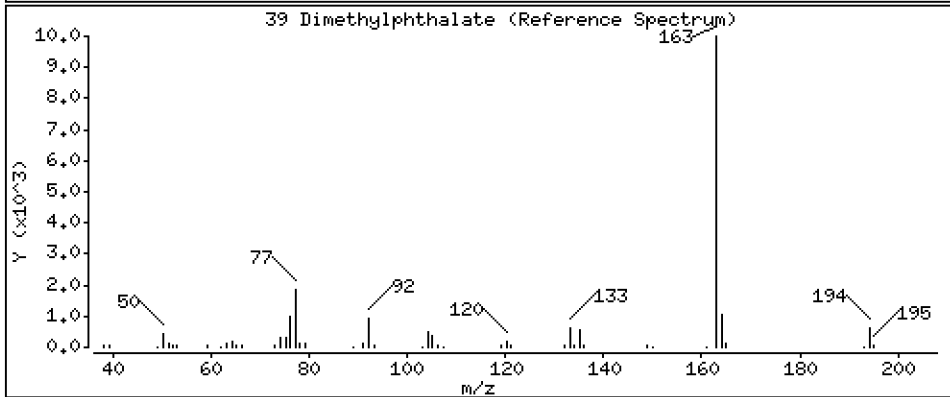
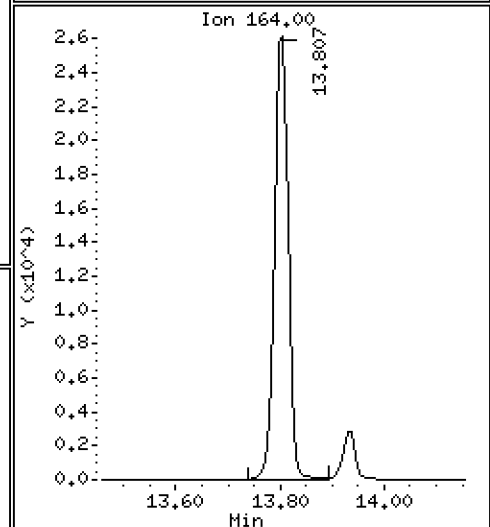
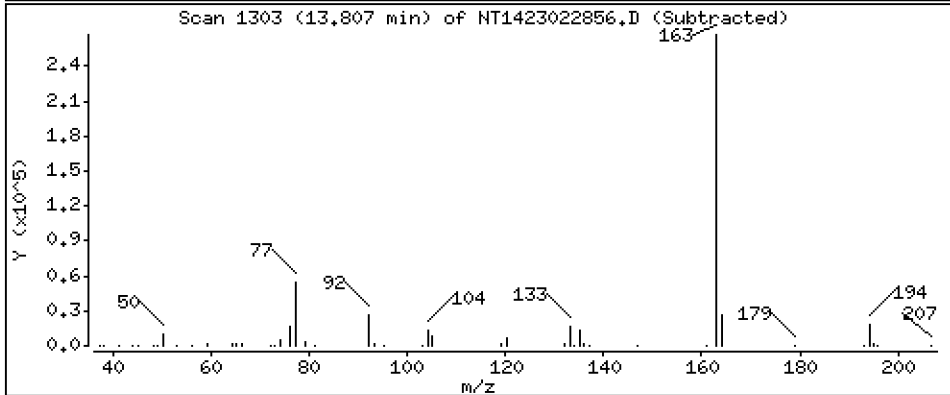
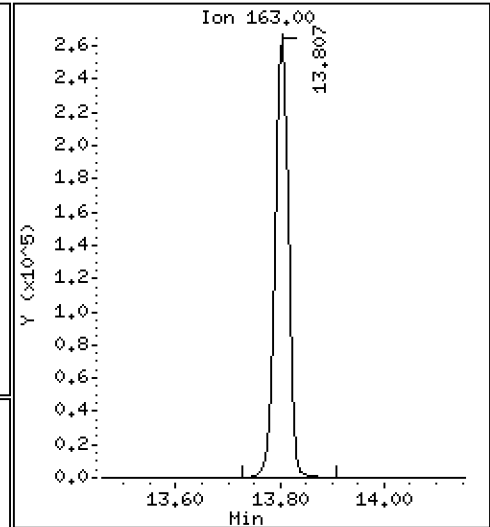
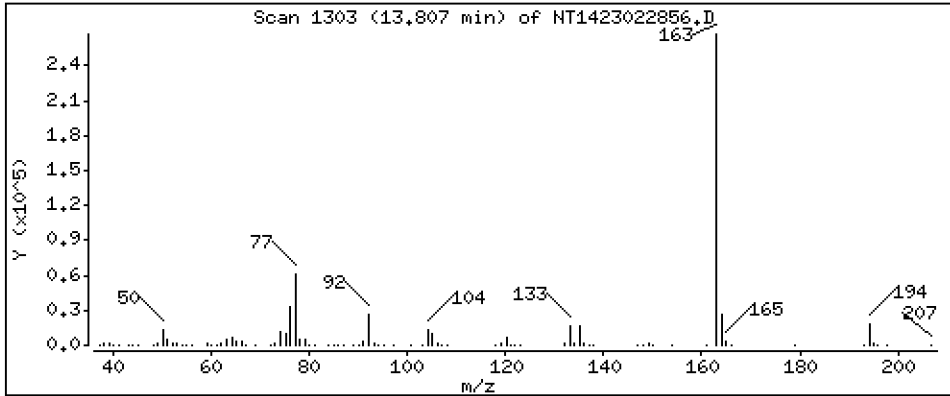
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 5,314 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

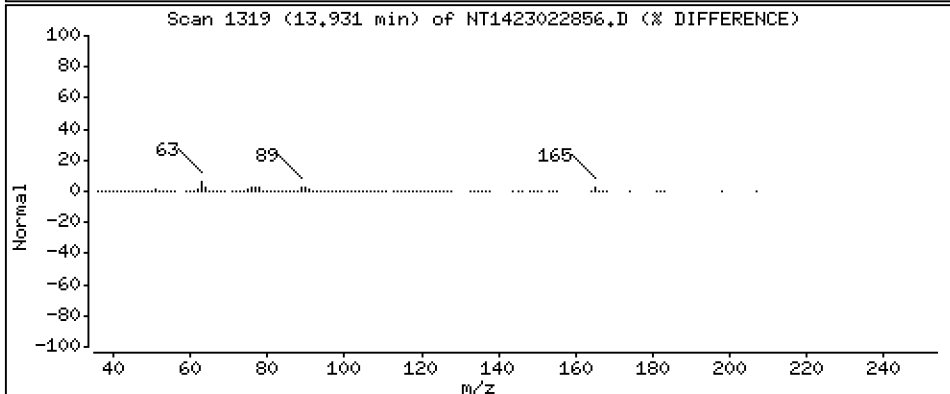
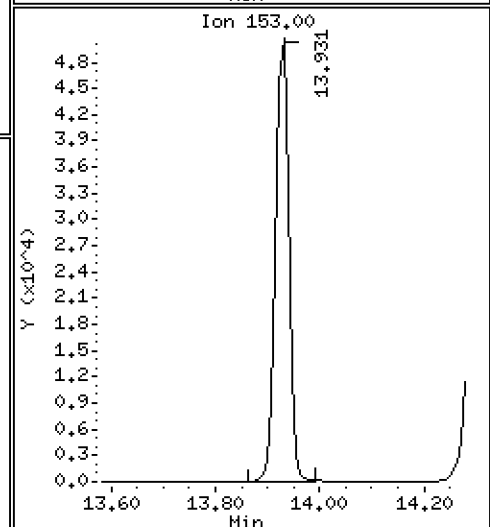
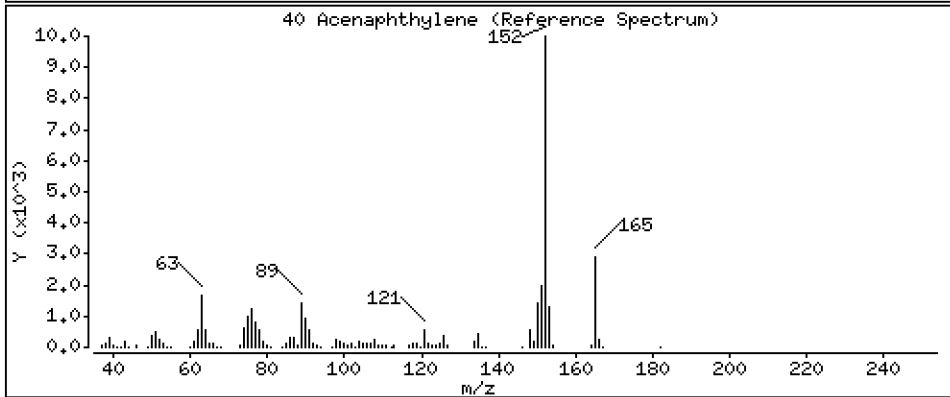
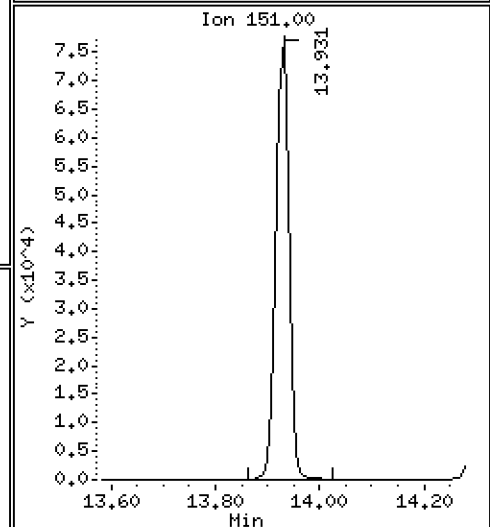
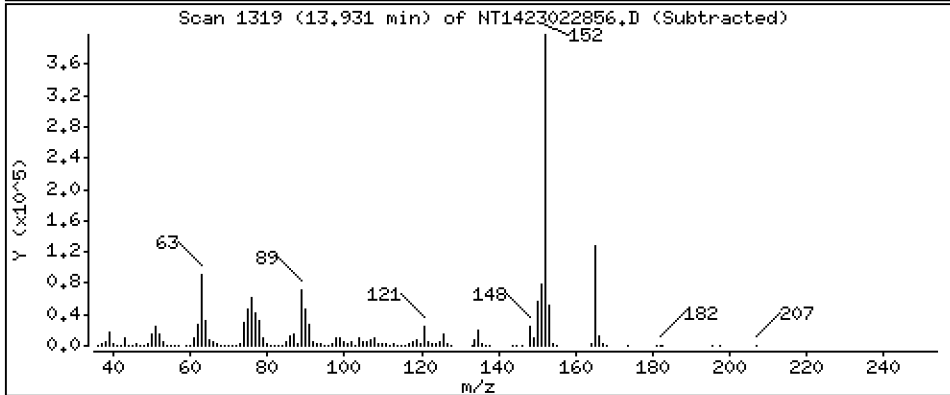
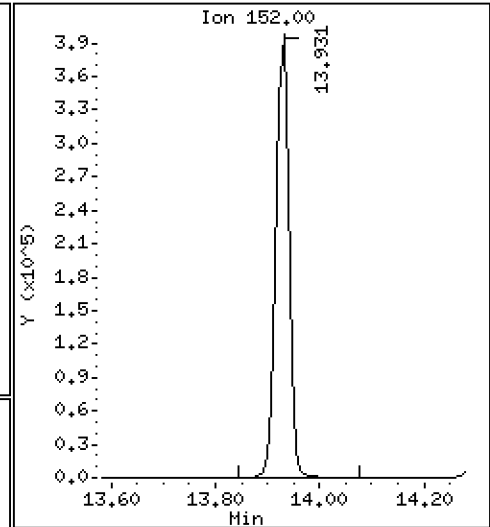
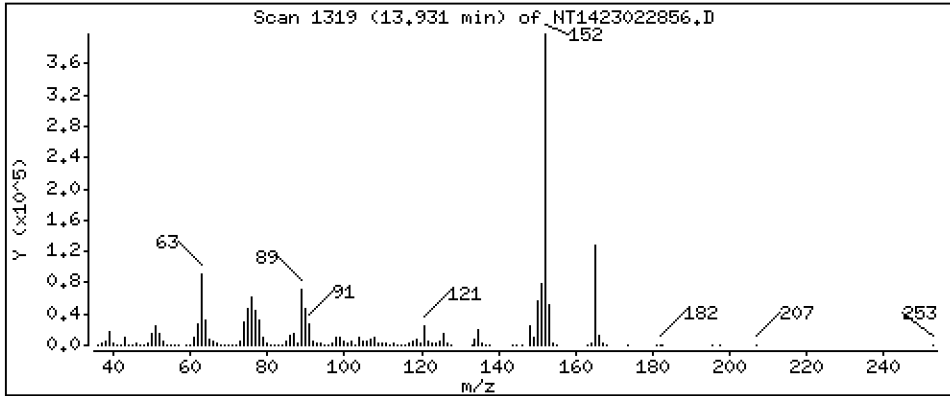
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 5,320 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

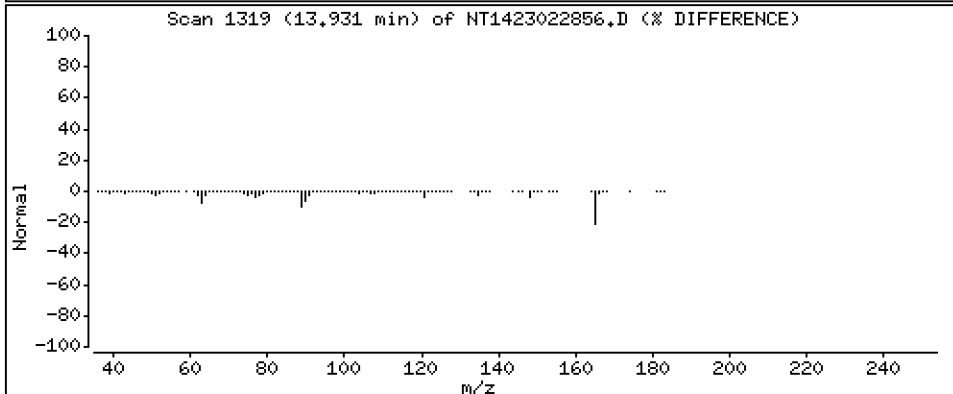
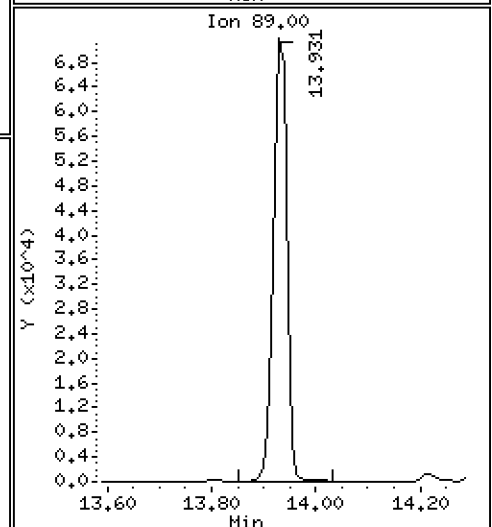
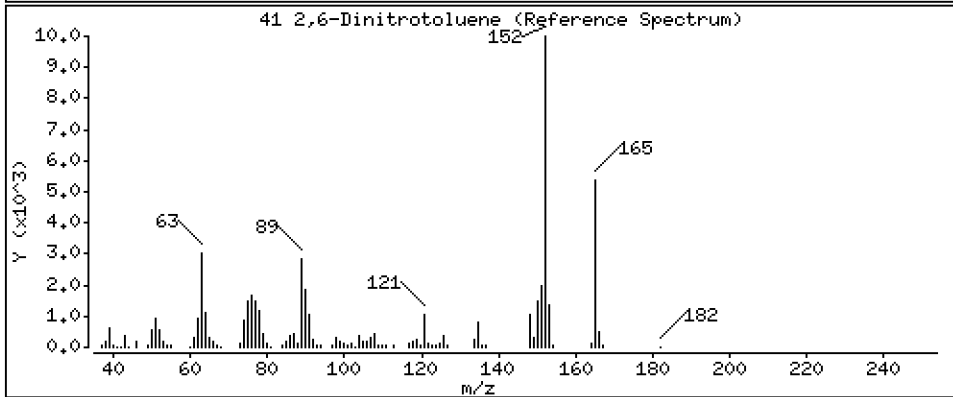
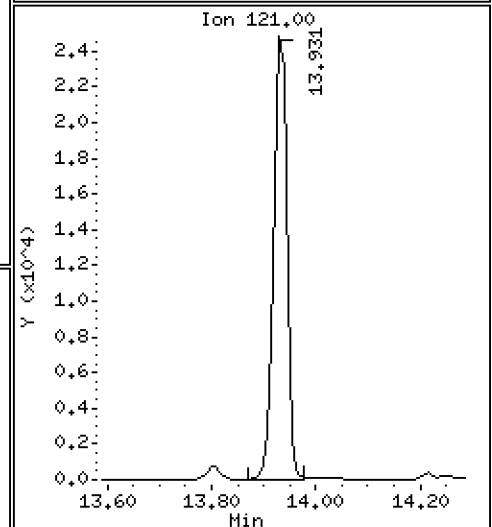
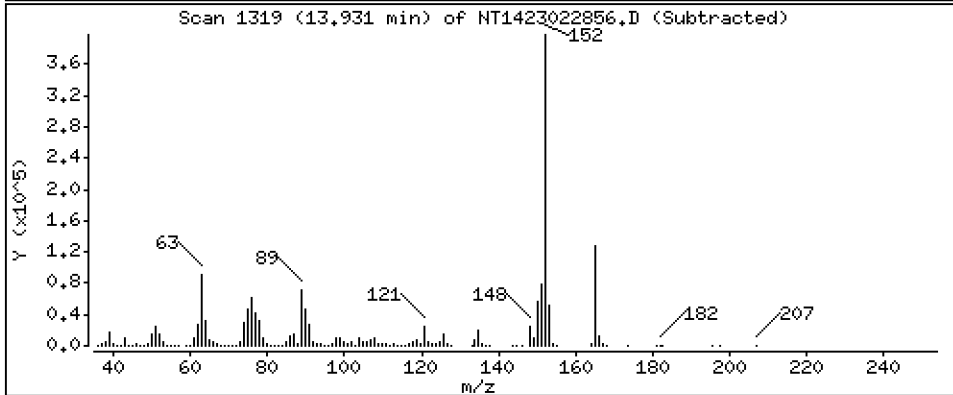
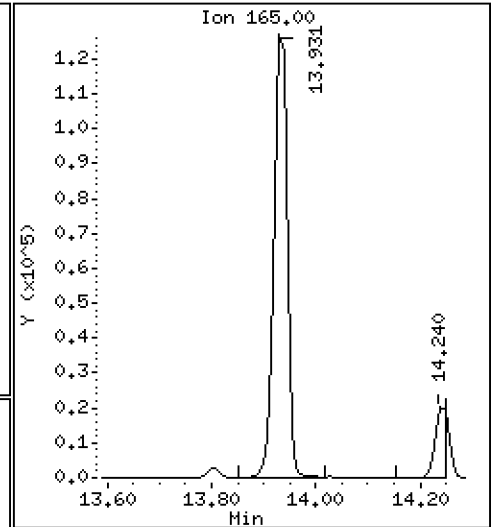
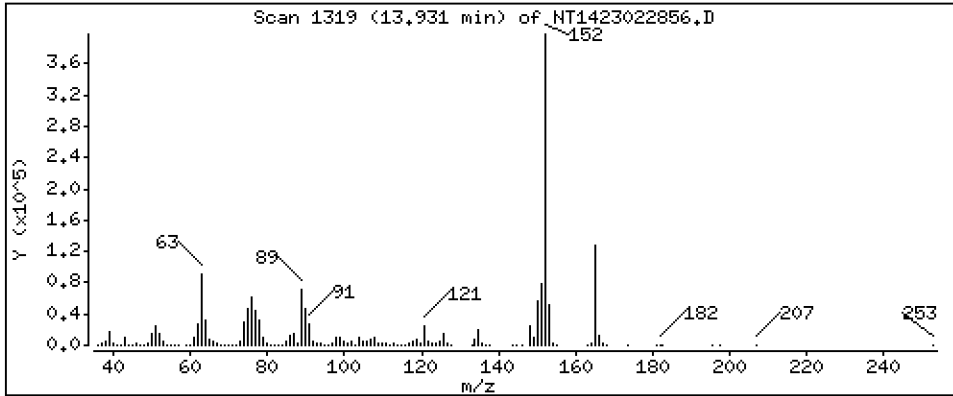
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

41 2,6-Dinitrotoluene

Concentration: 10.66 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

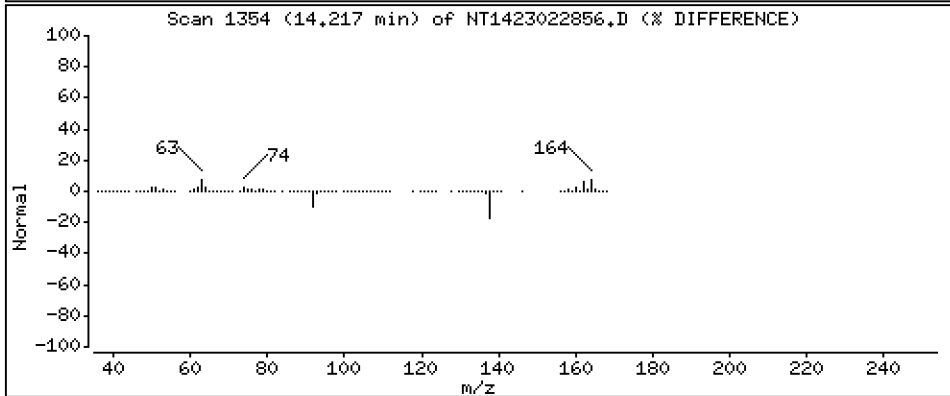
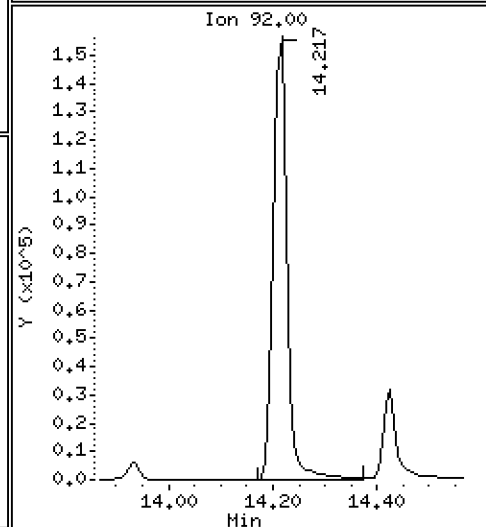
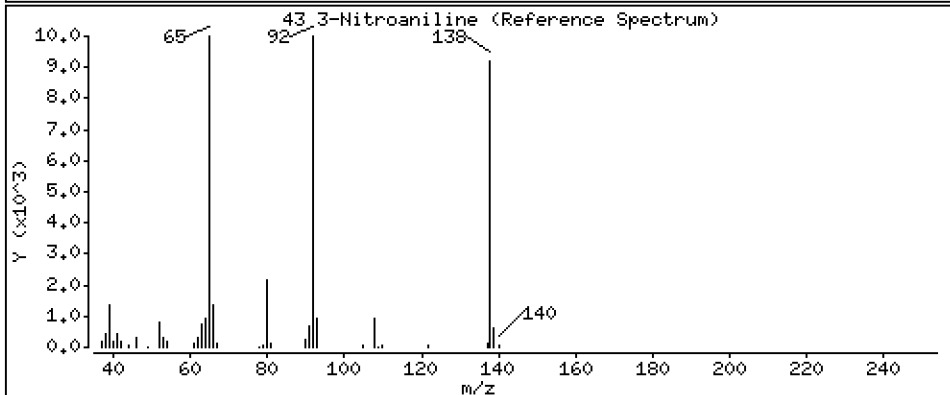
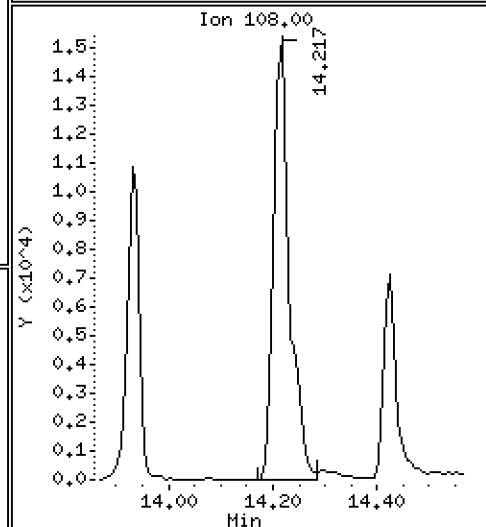
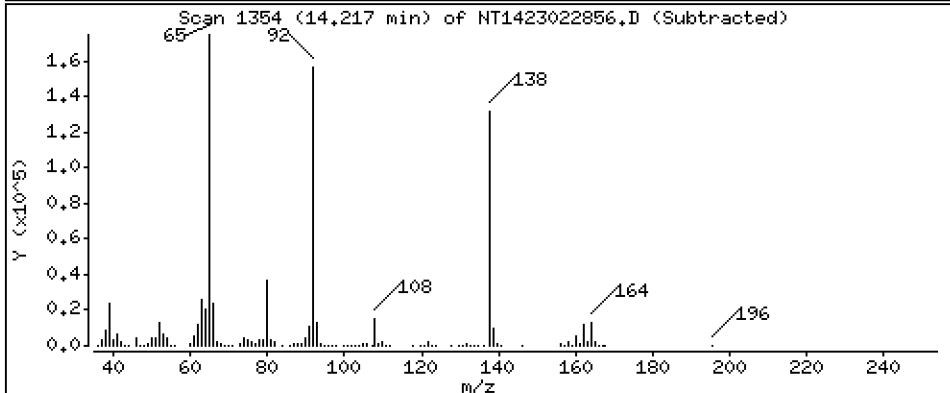
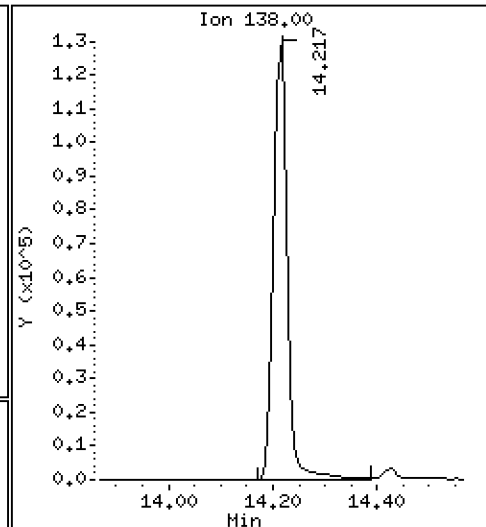
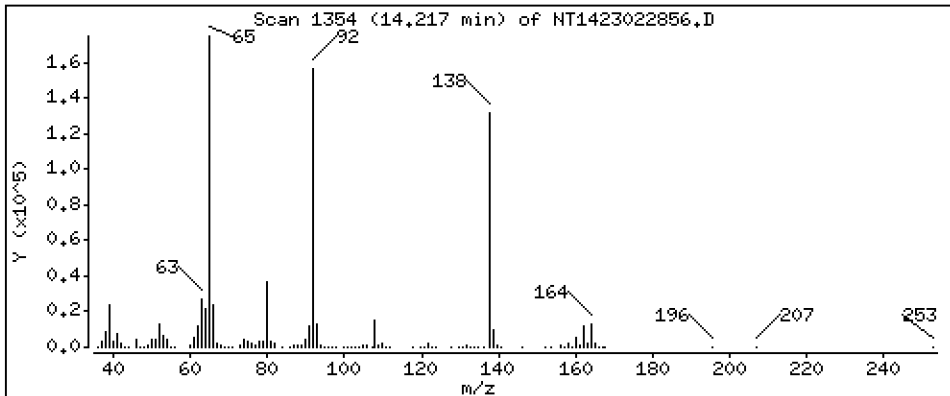
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

43 3-Nitroaniline

Concentration: 11,06 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

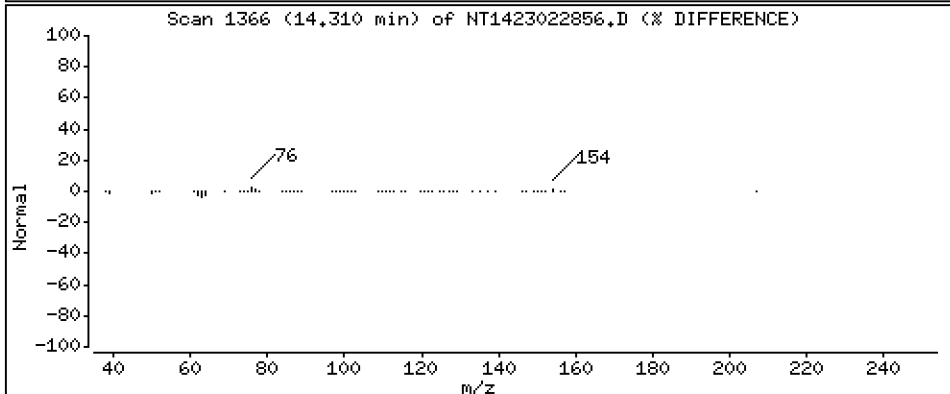
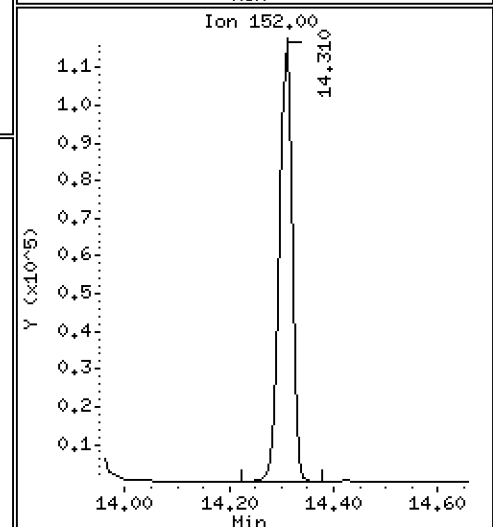
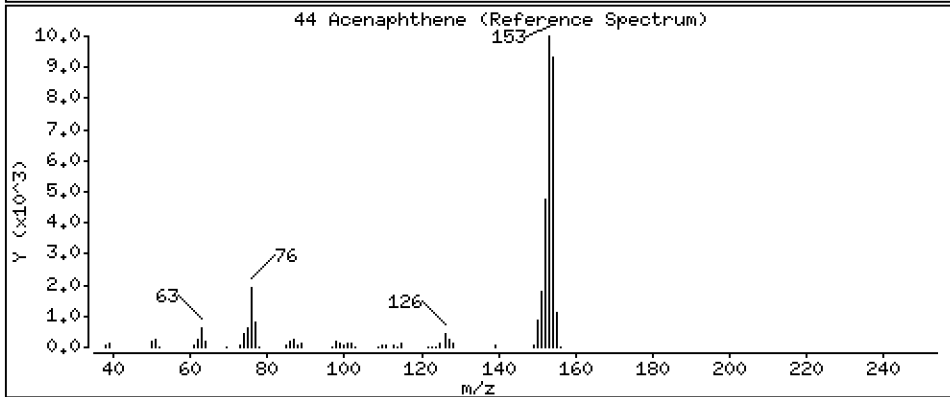
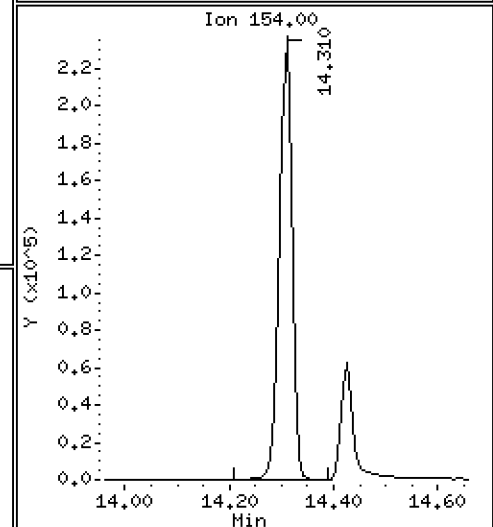
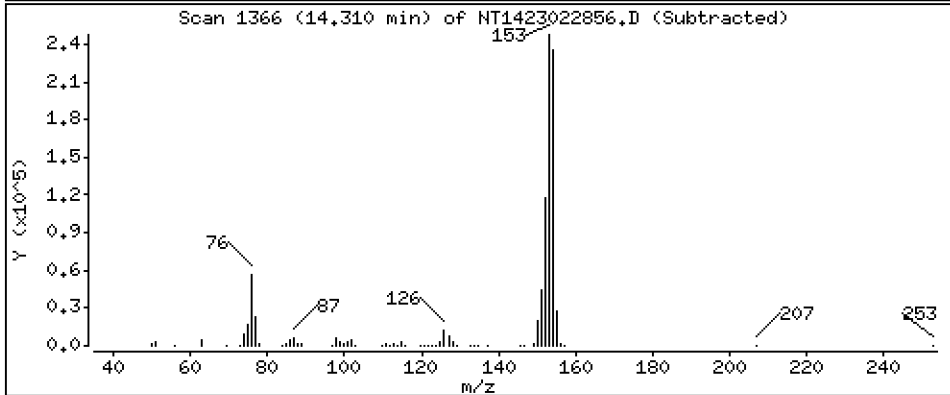
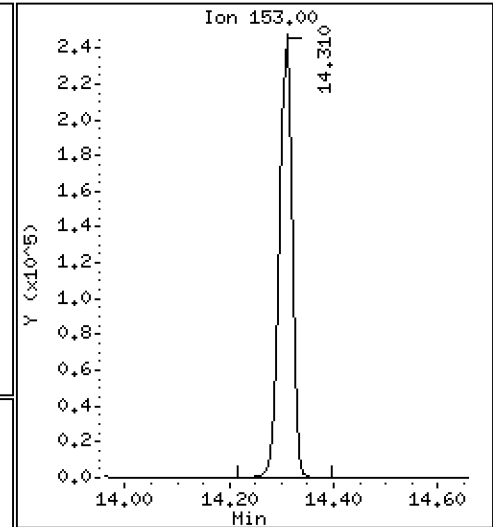
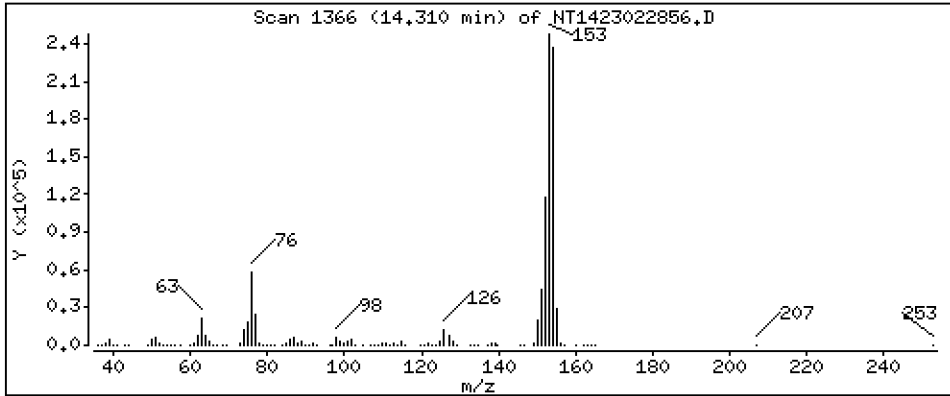
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 4,998 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

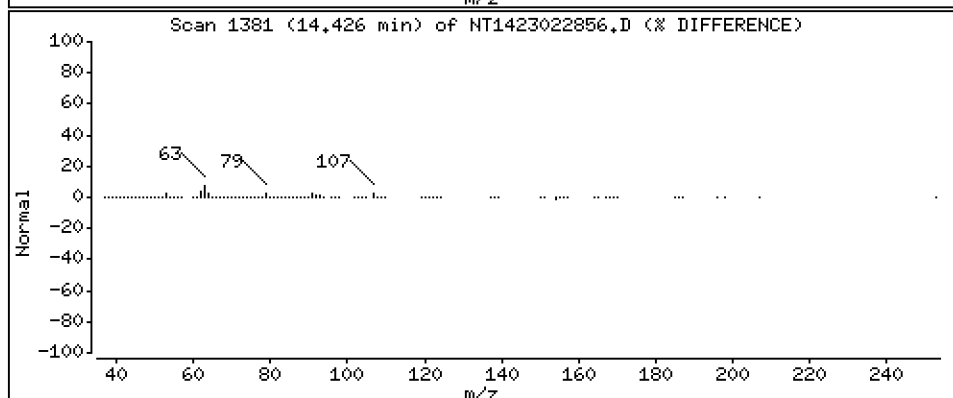
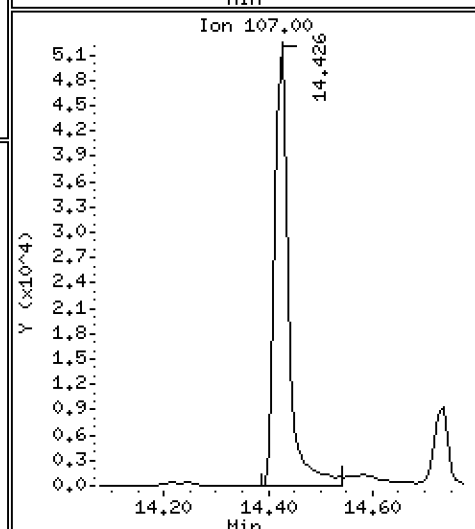
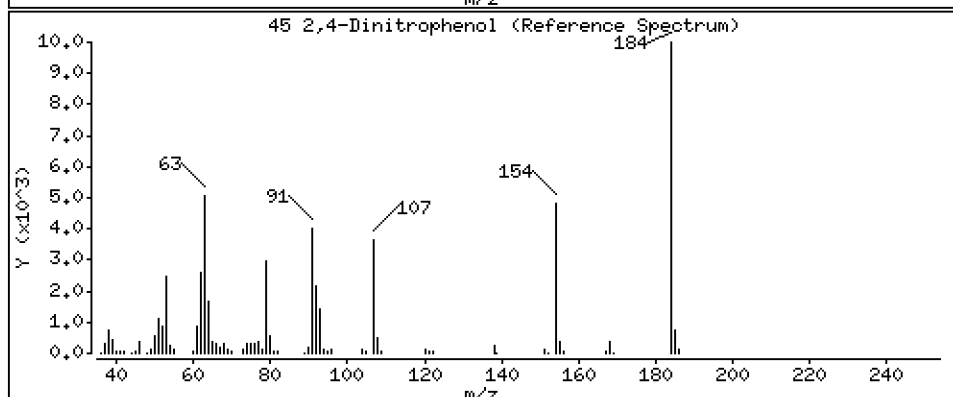
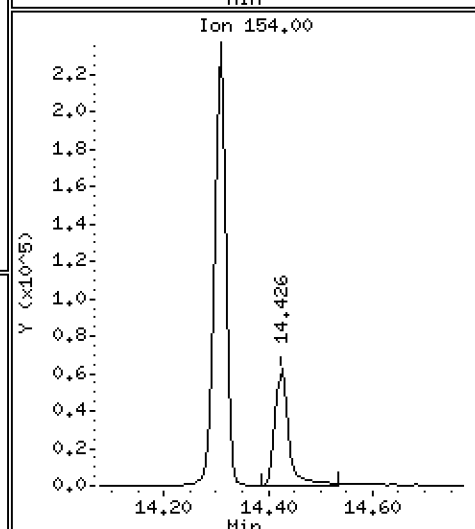
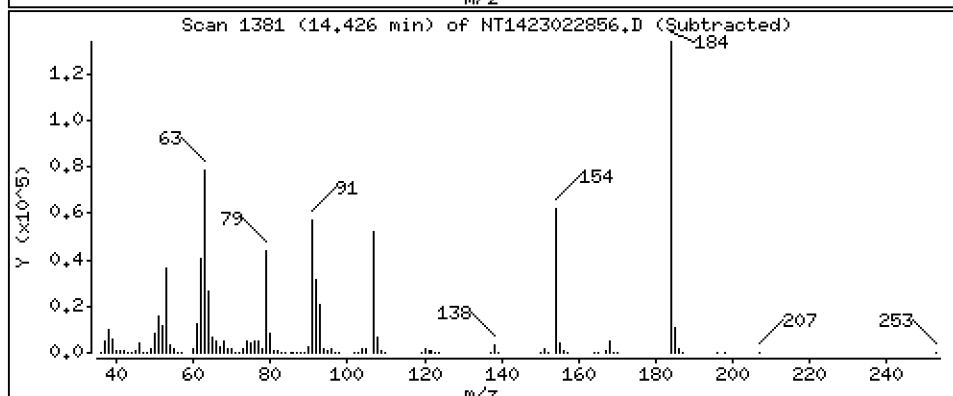
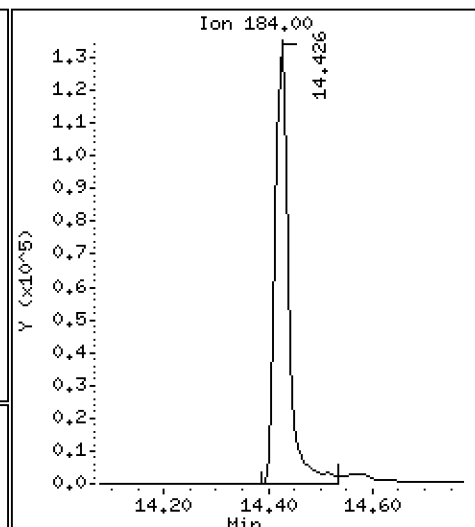
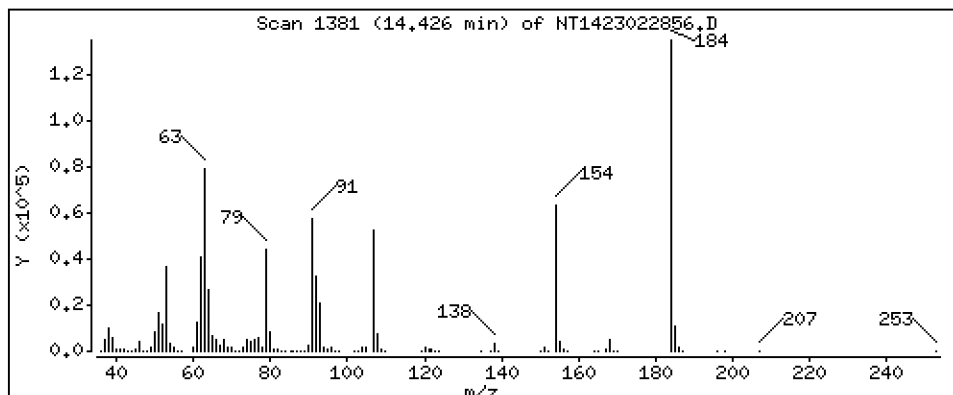
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

45 2,4-Dinitrophenol

Concentration: 17,65 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

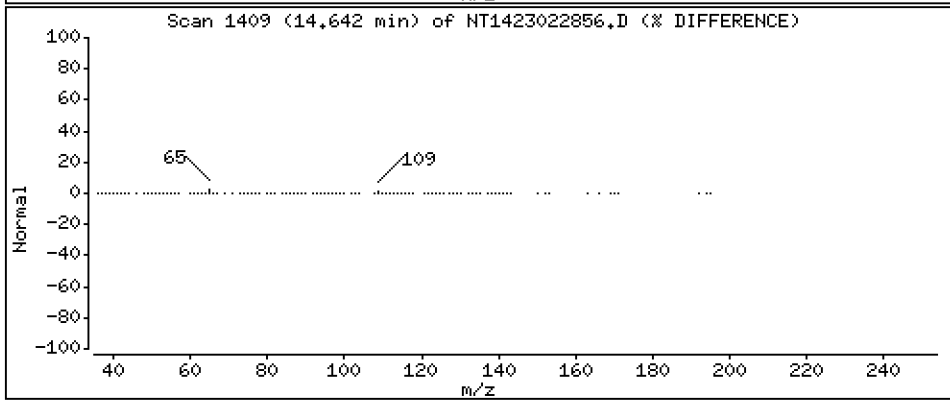
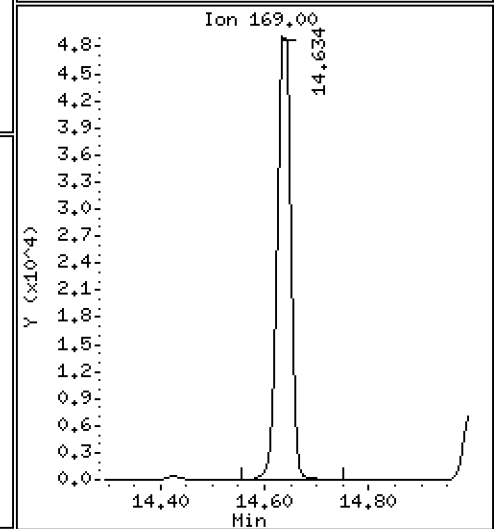
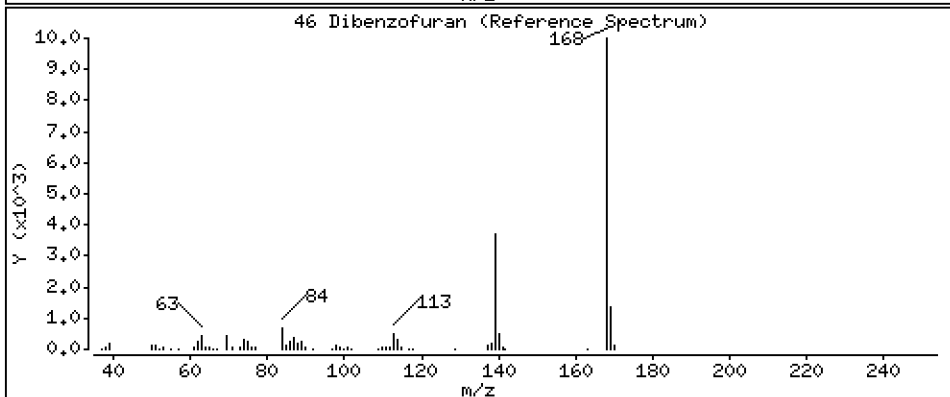
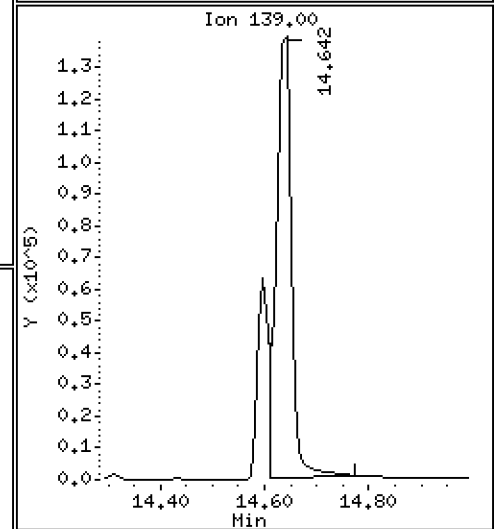
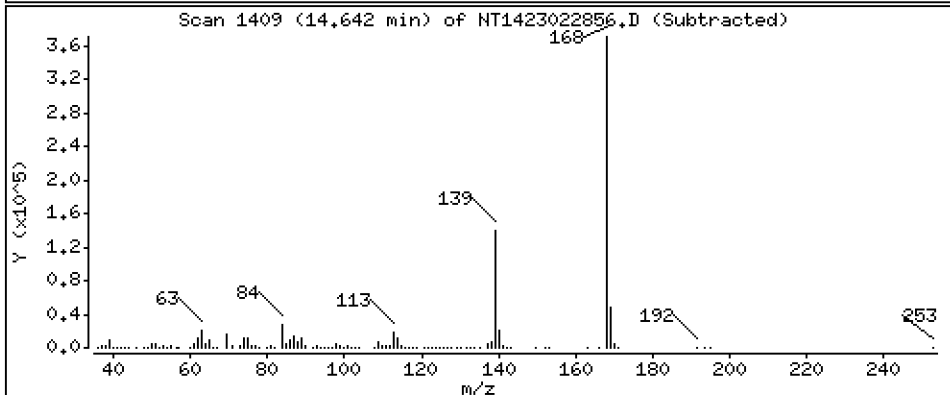
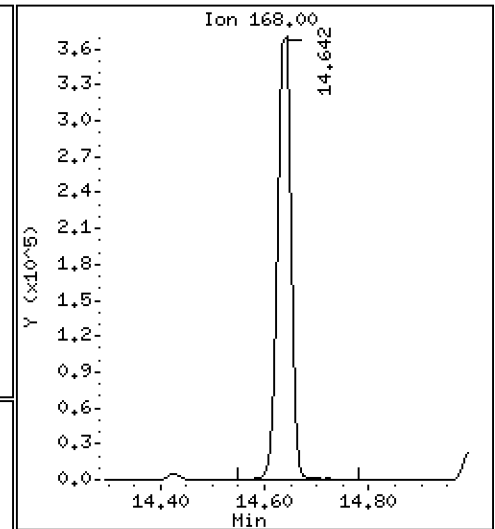
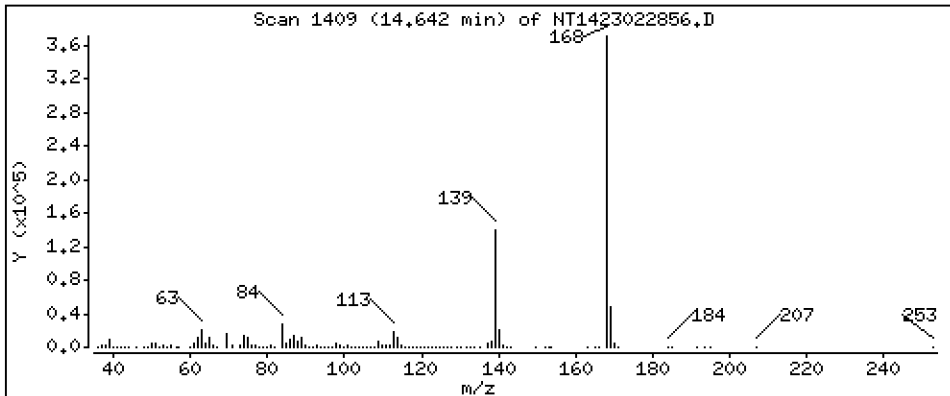
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 4,965 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

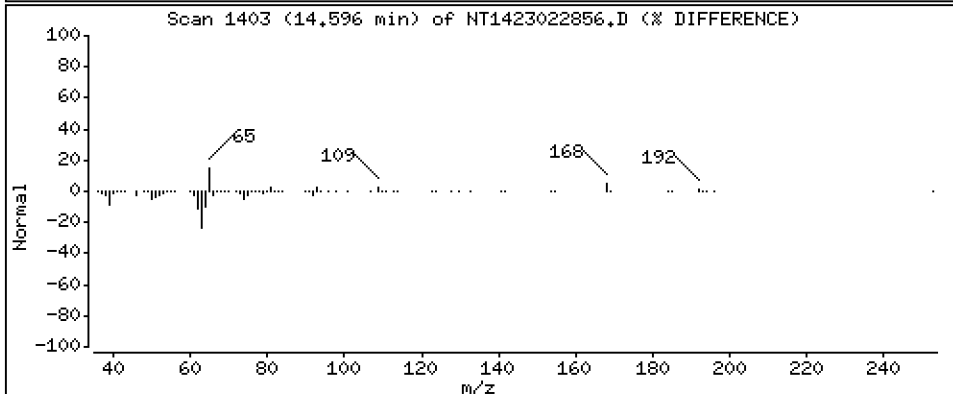
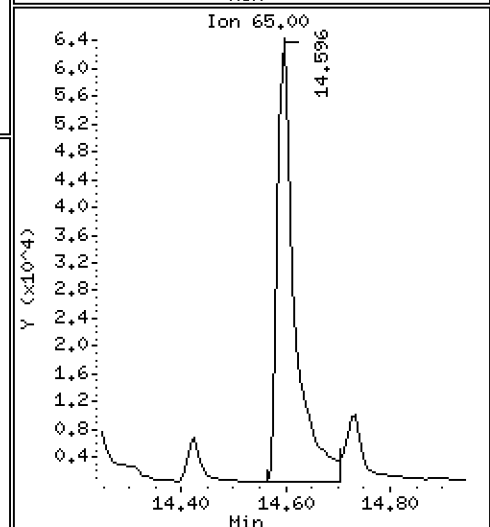
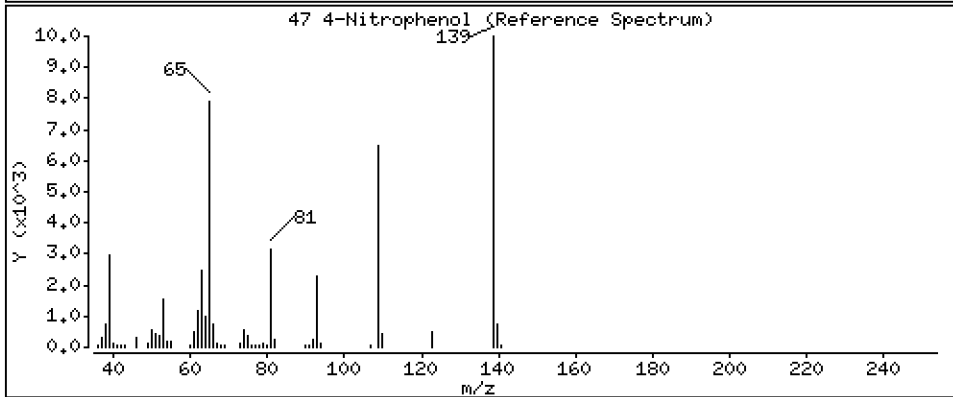
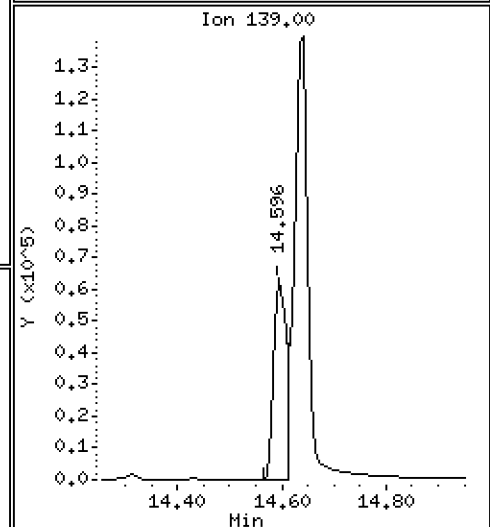
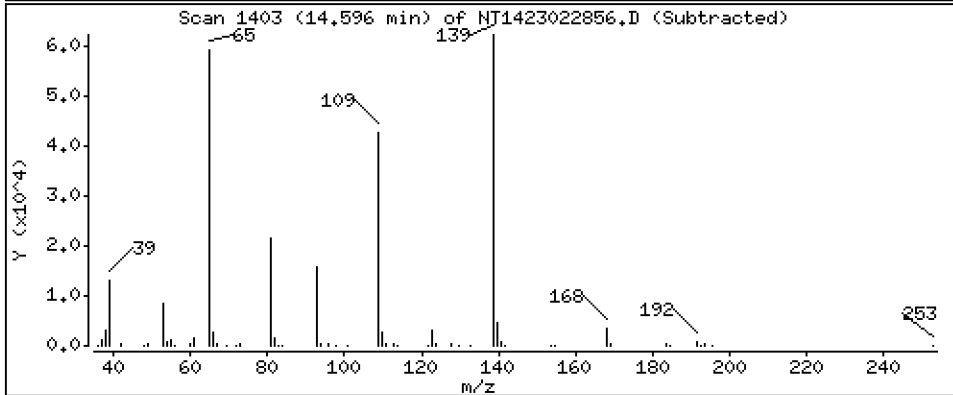
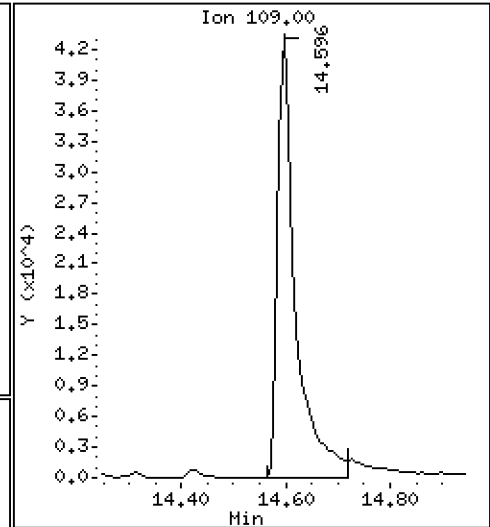
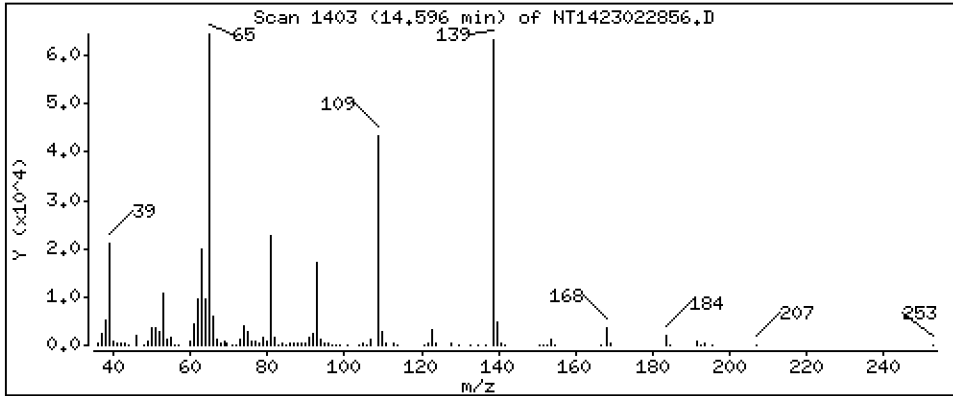
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

47 4-Nitrophenol

Concentration: 9,556 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

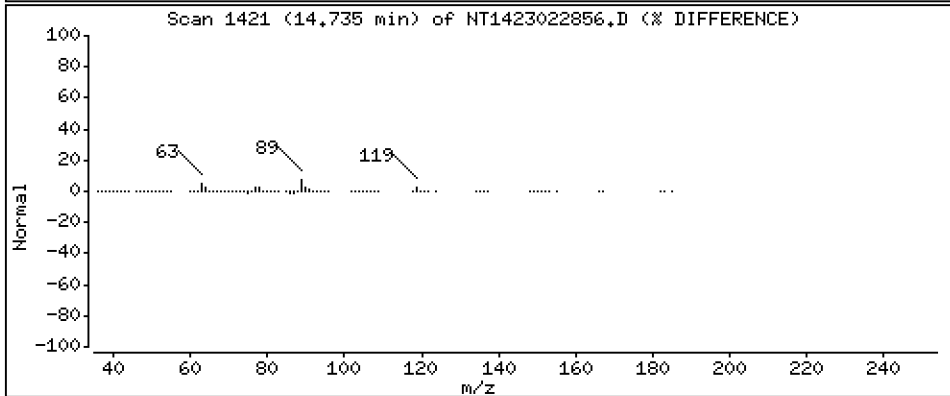
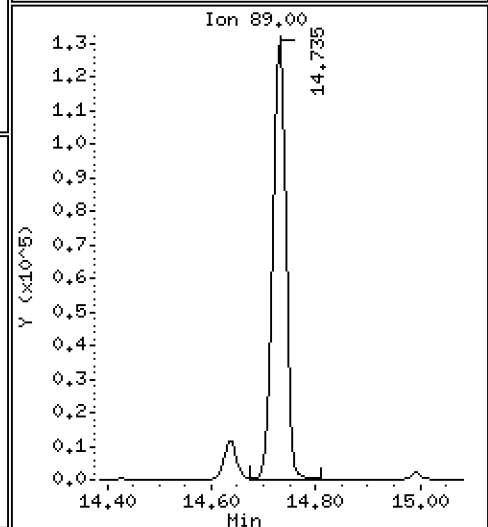
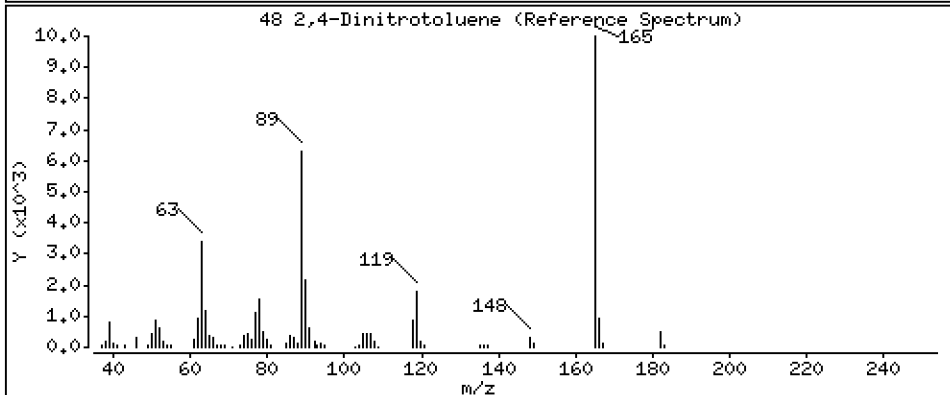
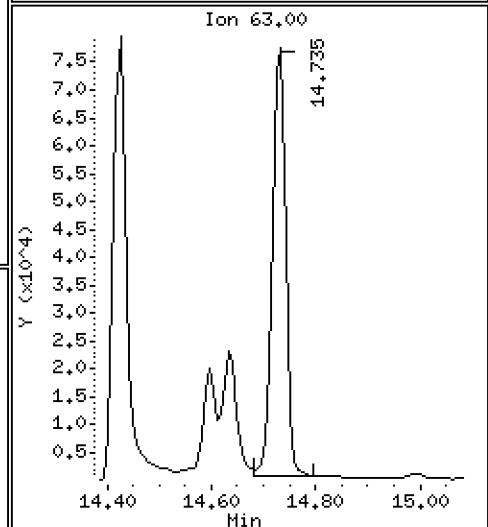
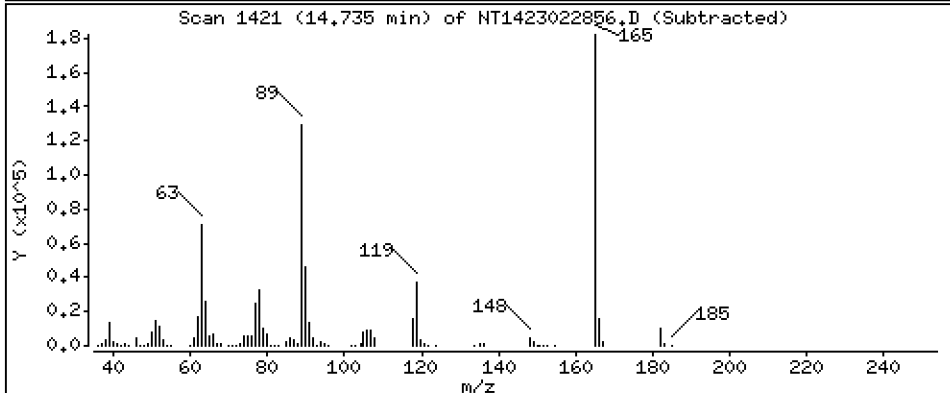
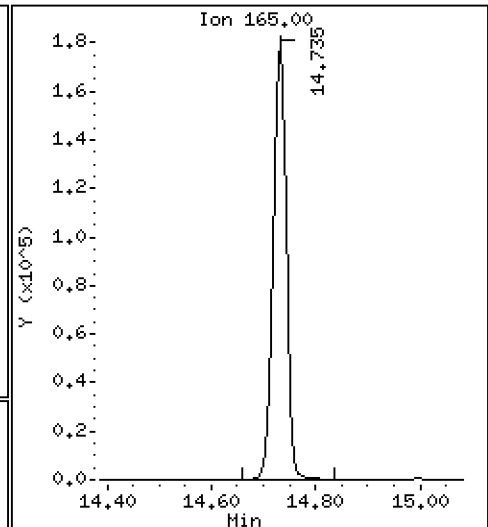
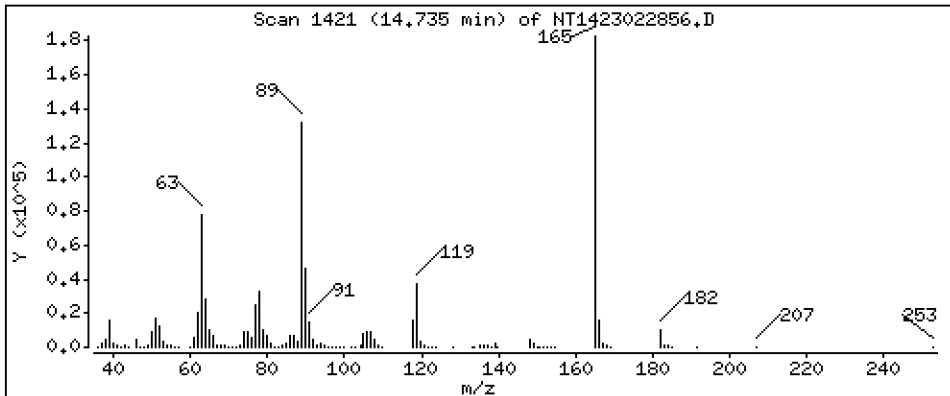
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

48 2,4-Dinitrotoluene

Concentration: 10,39 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

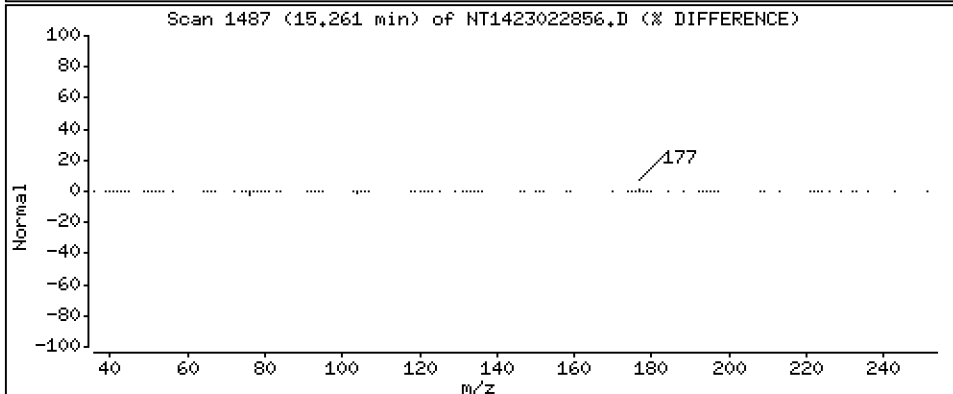
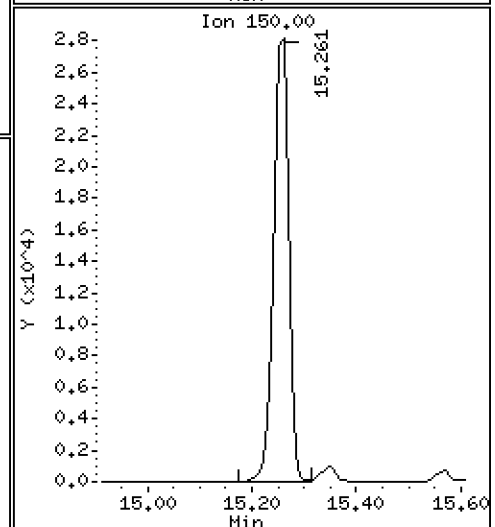
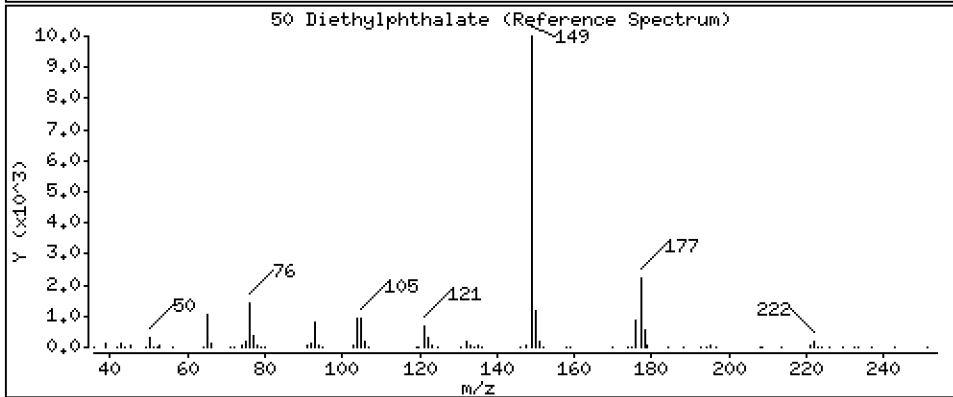
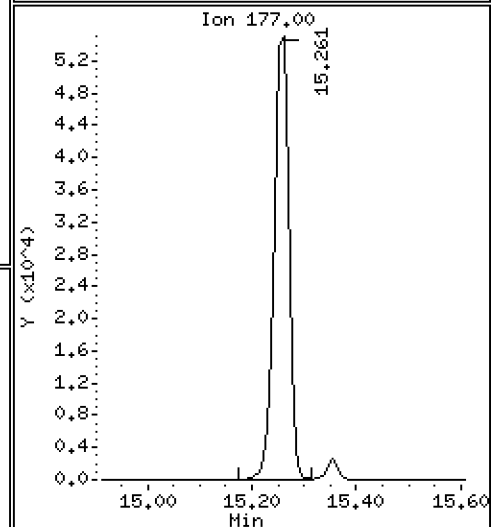
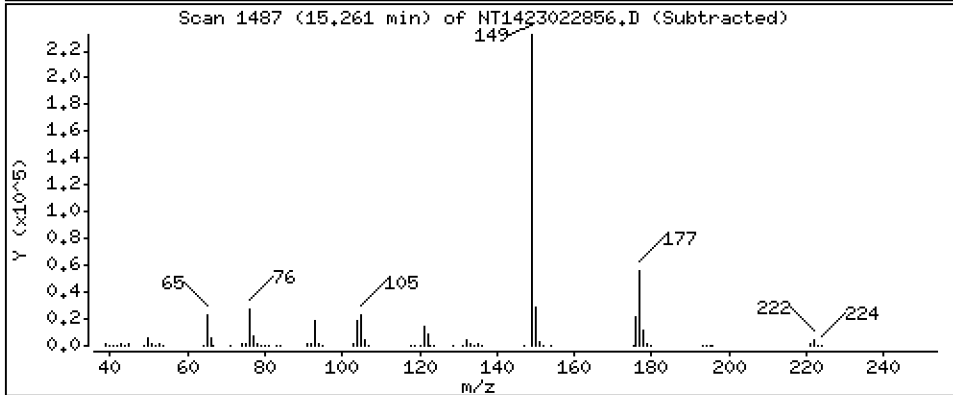
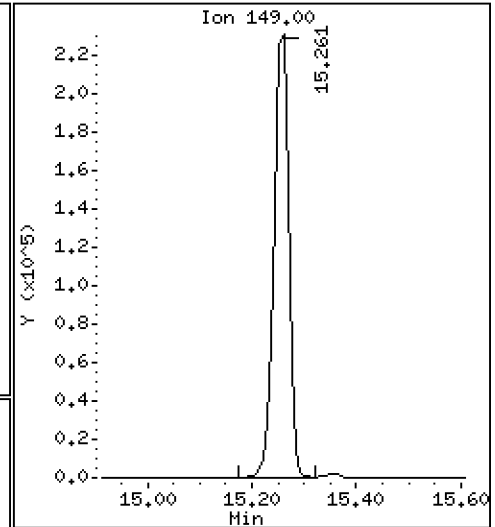
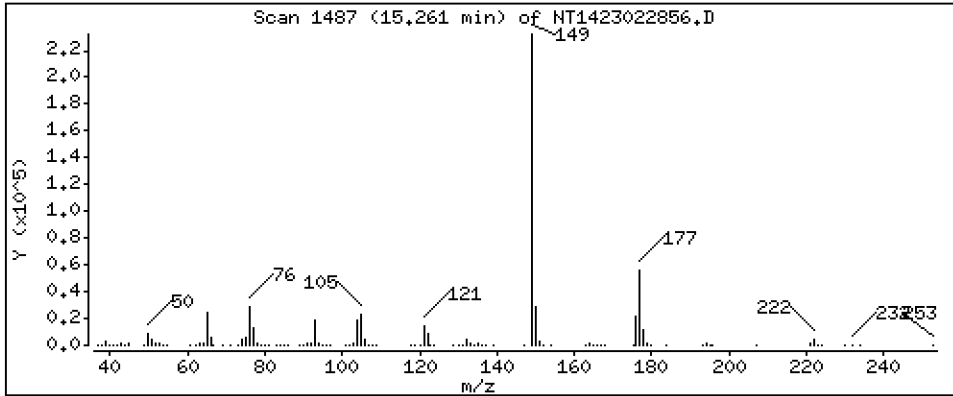
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 5,505 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

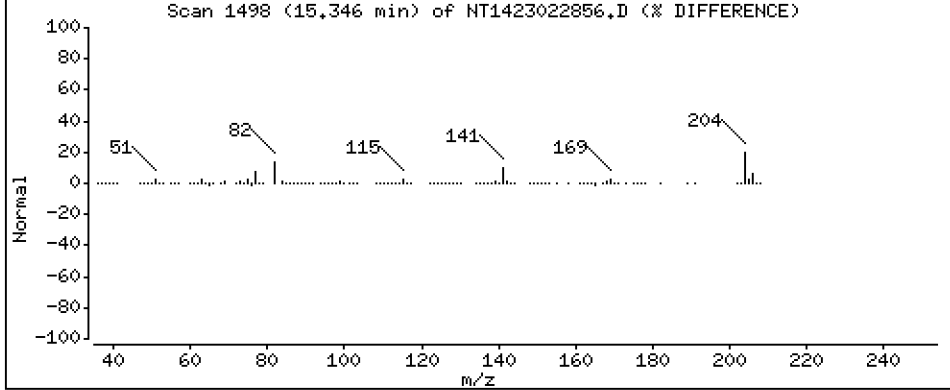
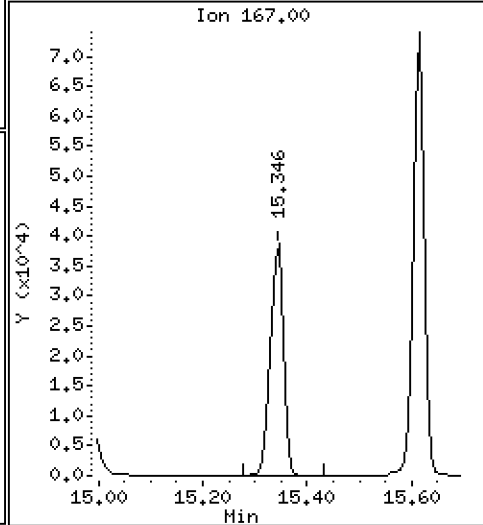
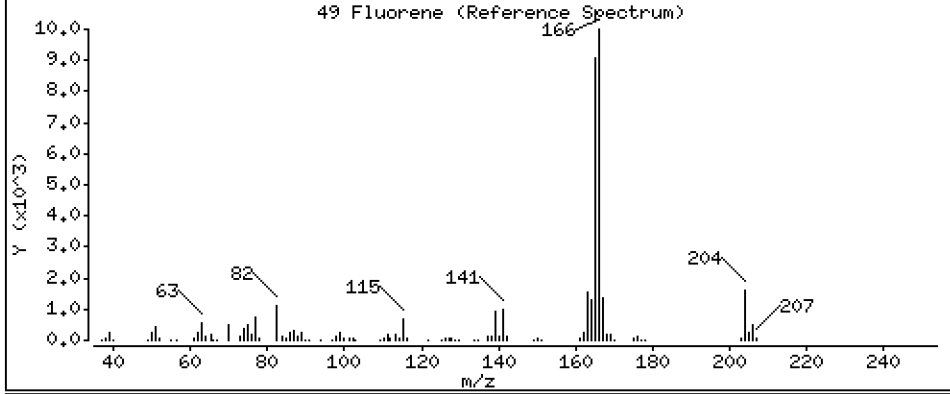
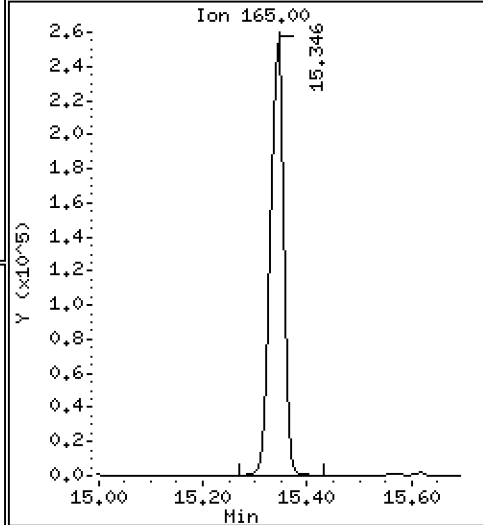
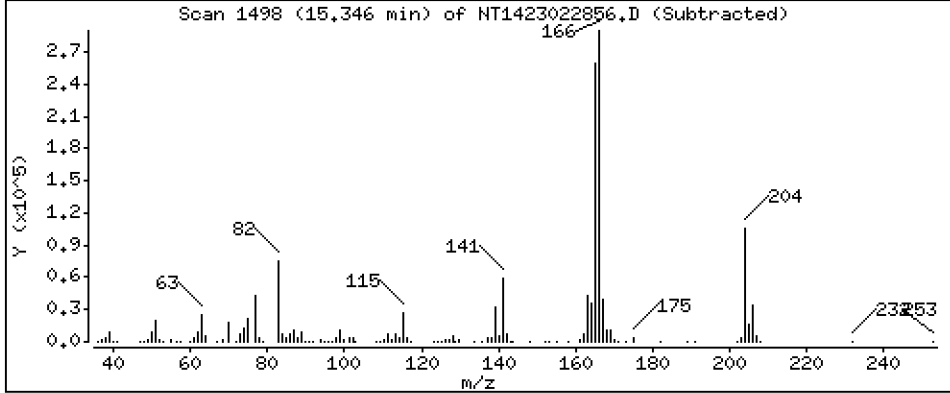
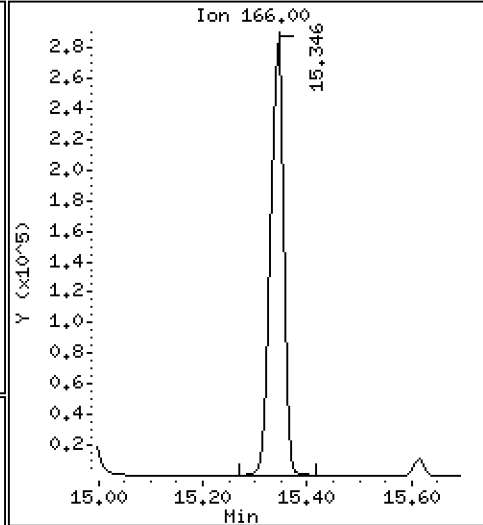
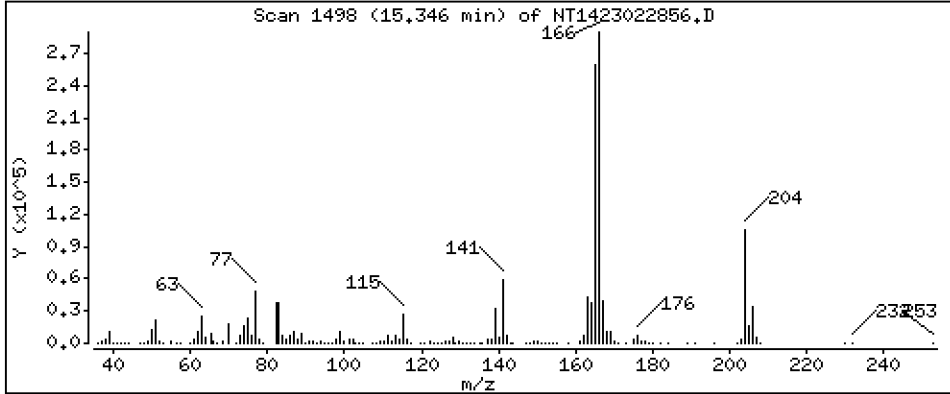
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 5,062 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

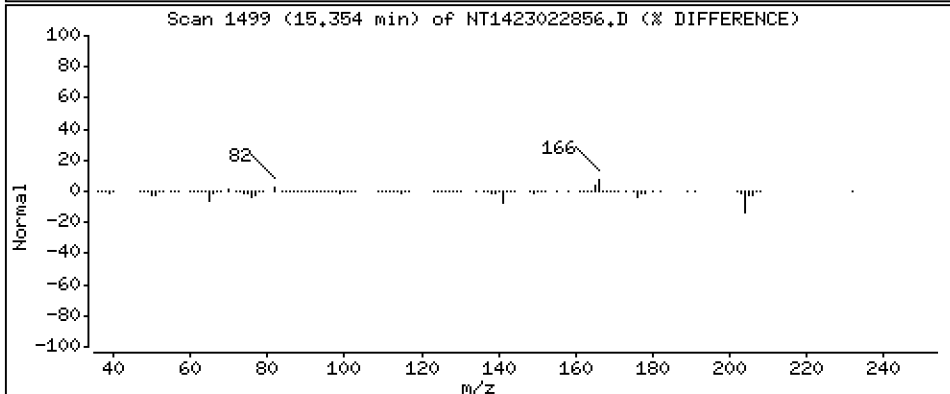
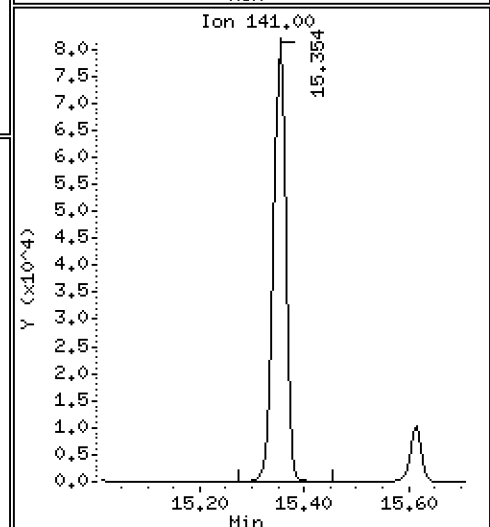
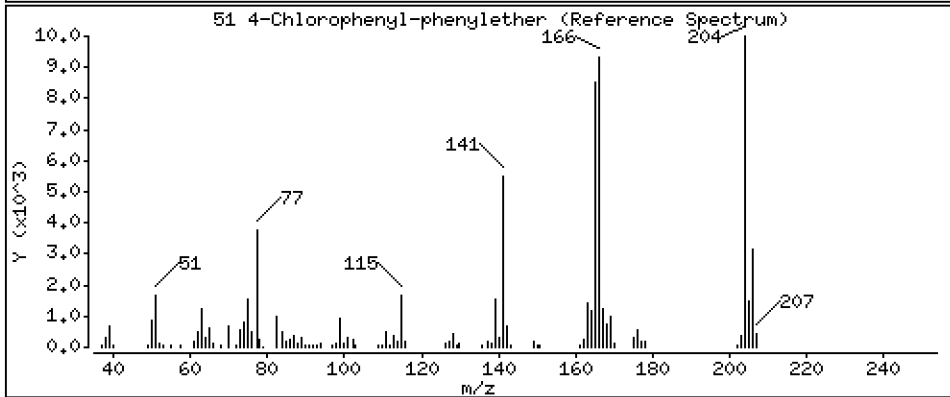
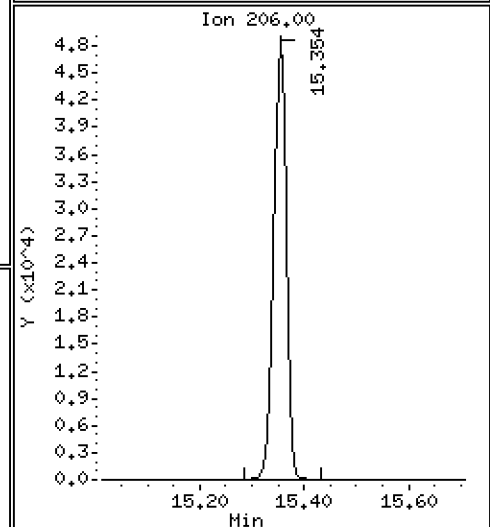
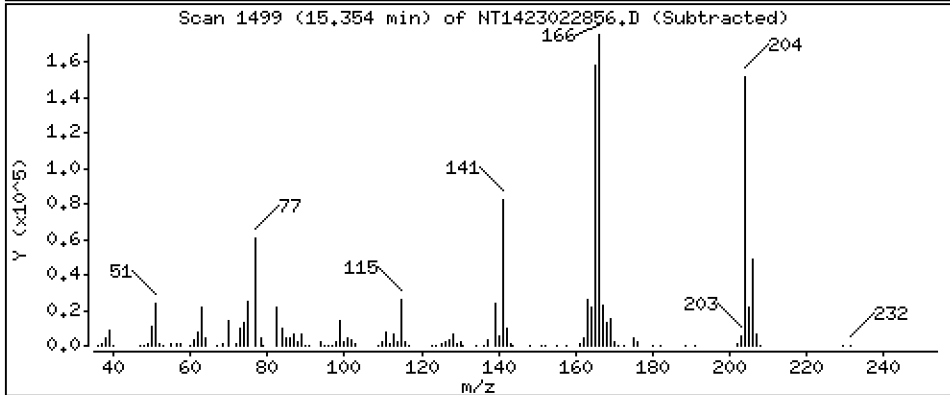
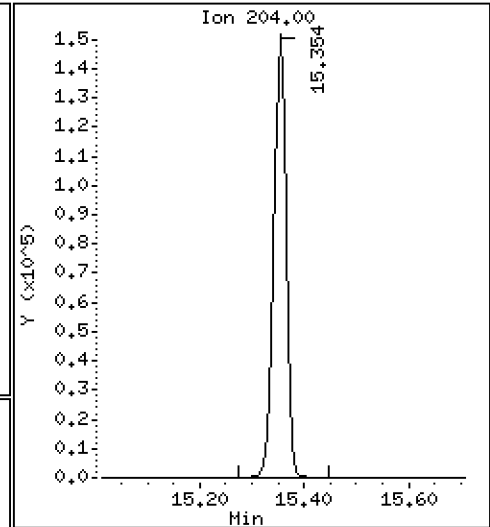
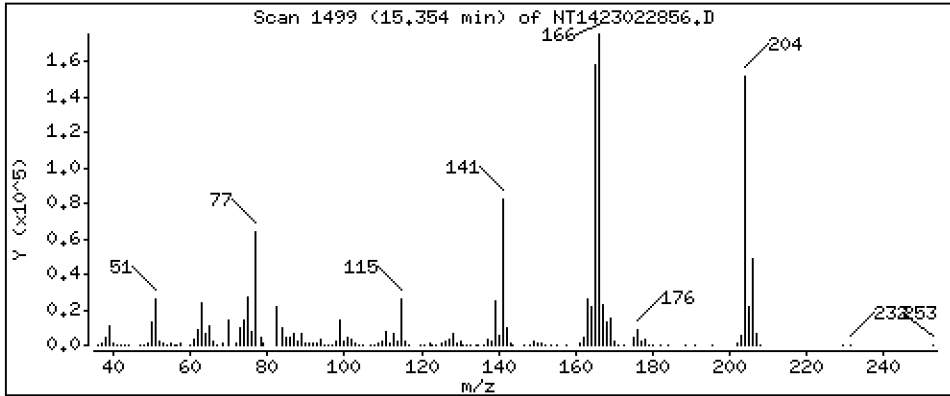
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 4,592 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

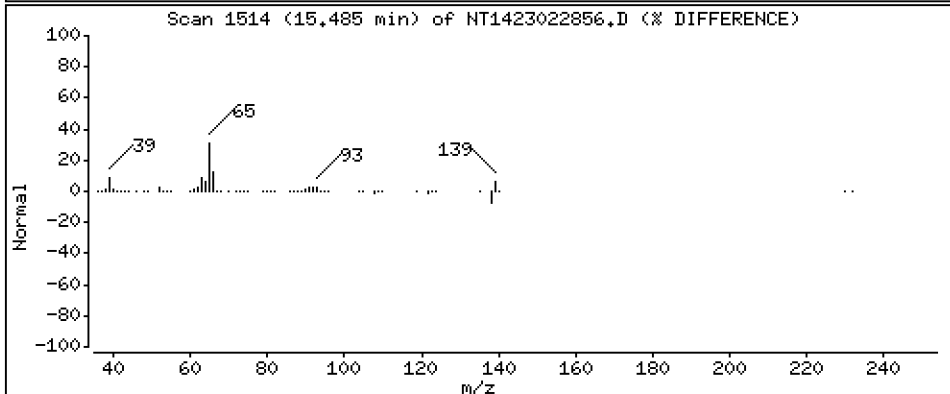
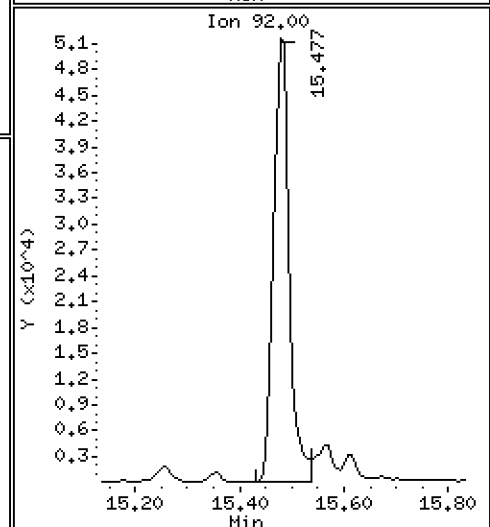
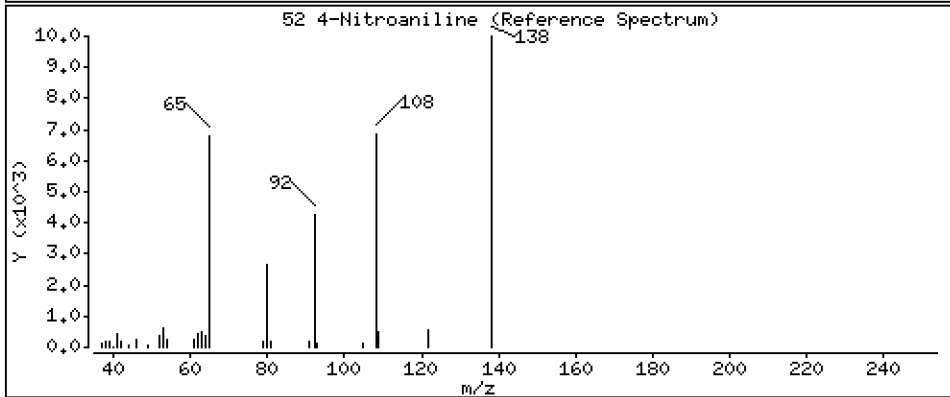
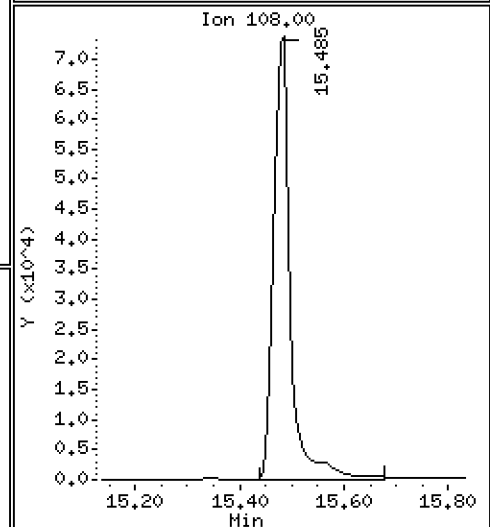
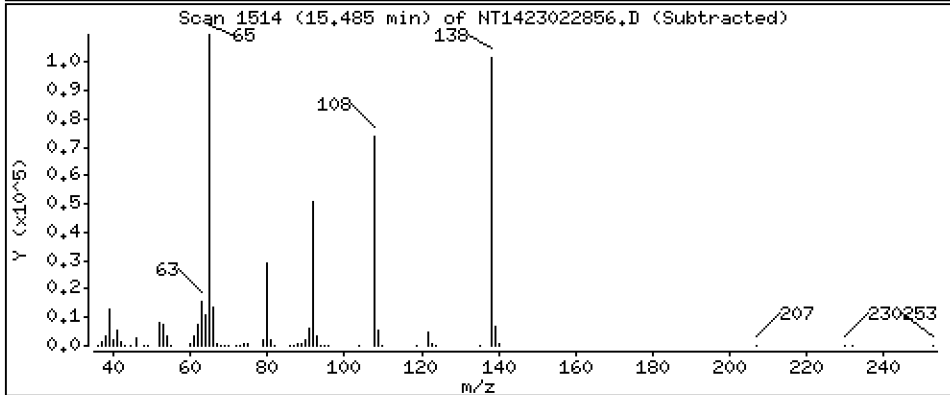
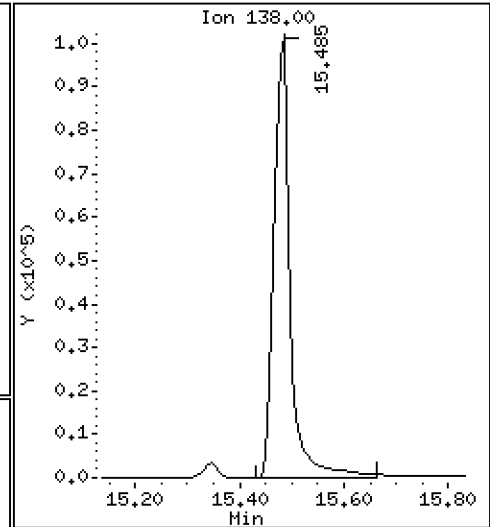
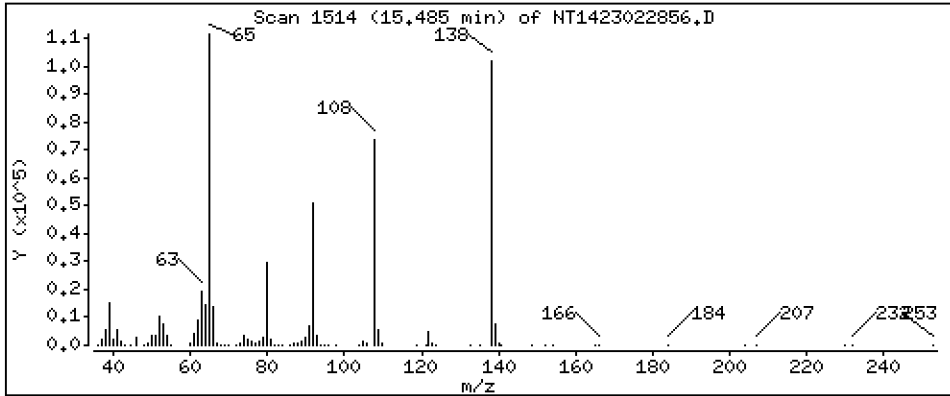
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

52 4-Nitroaniline

Concentration: 10,33 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

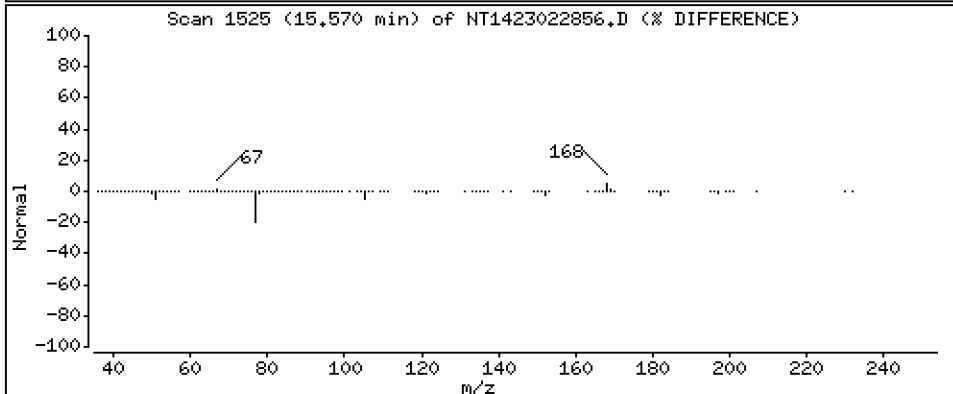
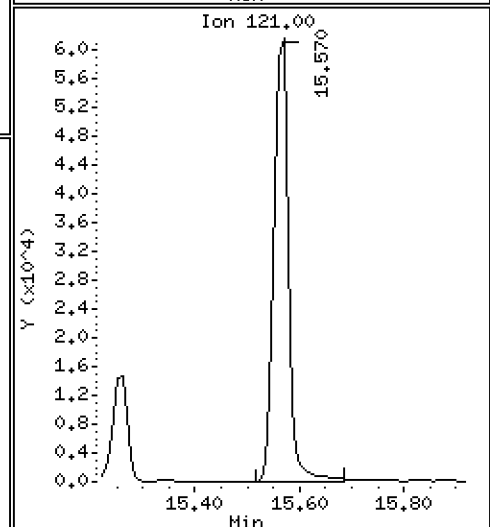
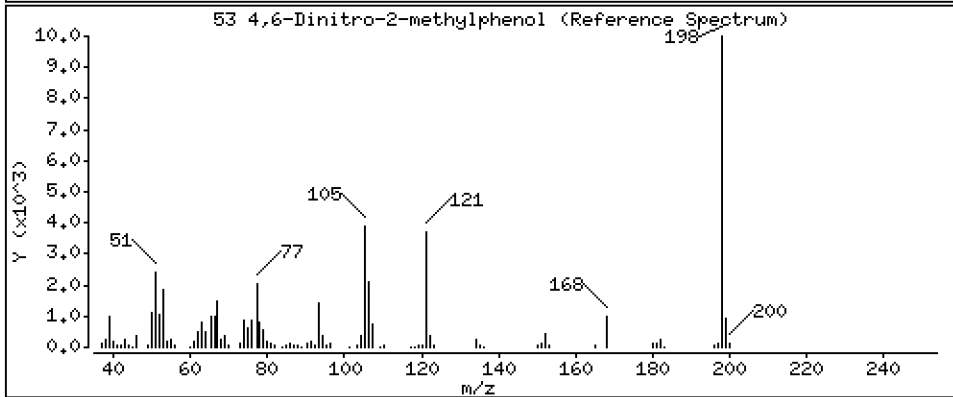
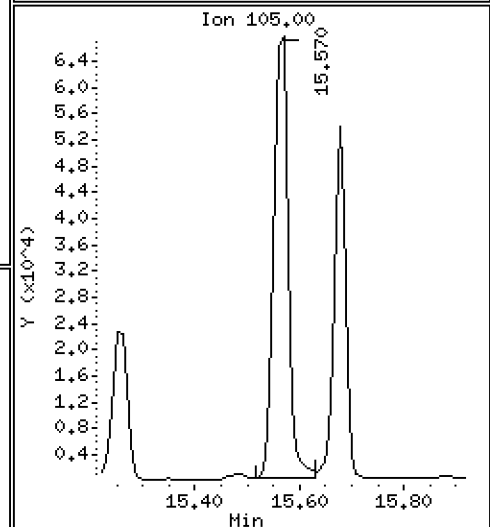
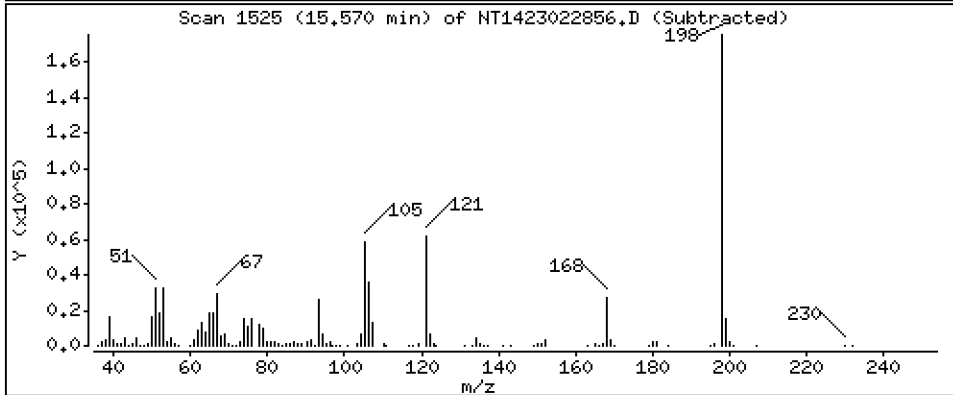
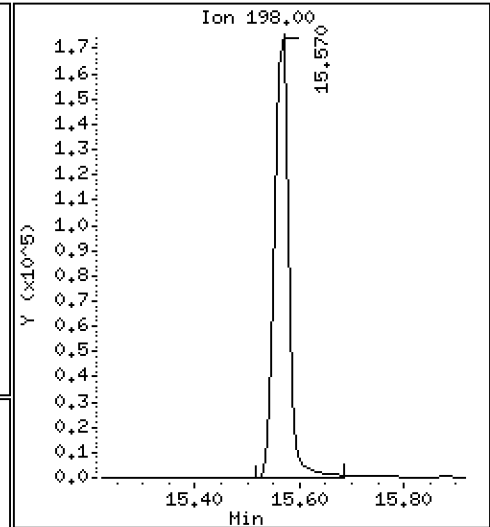
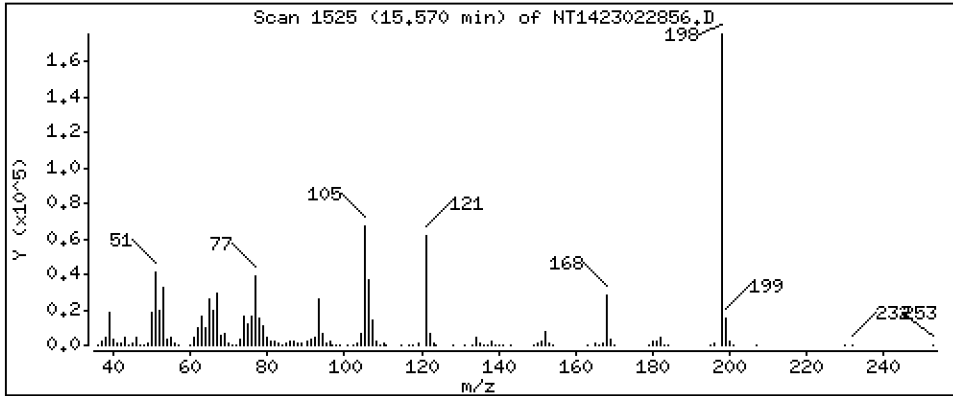
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

53 4,6-Dinitro-2-methylphenol

Concentration: 18.83 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

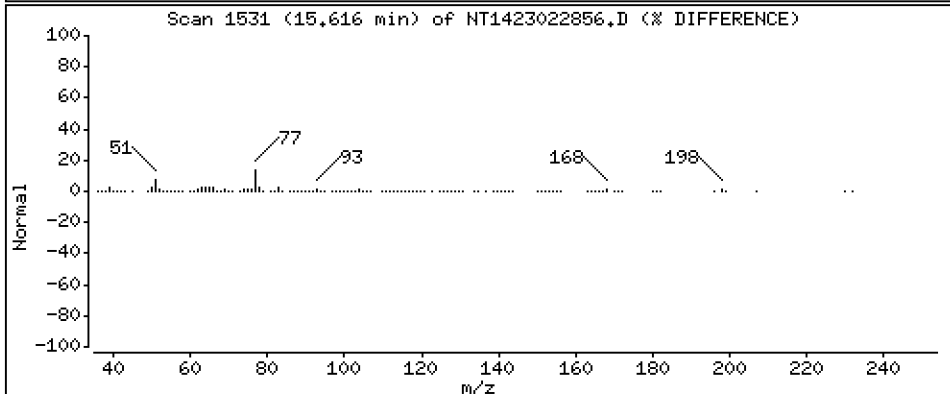
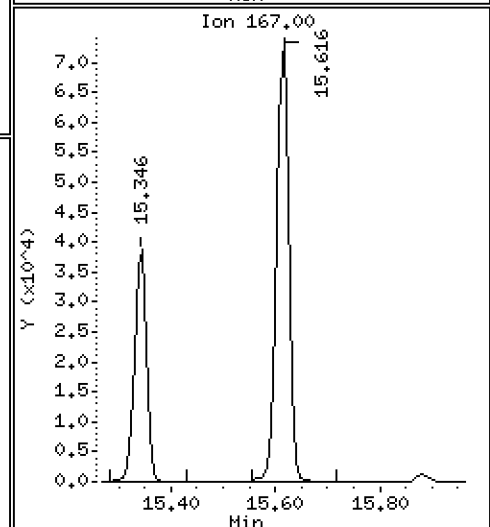
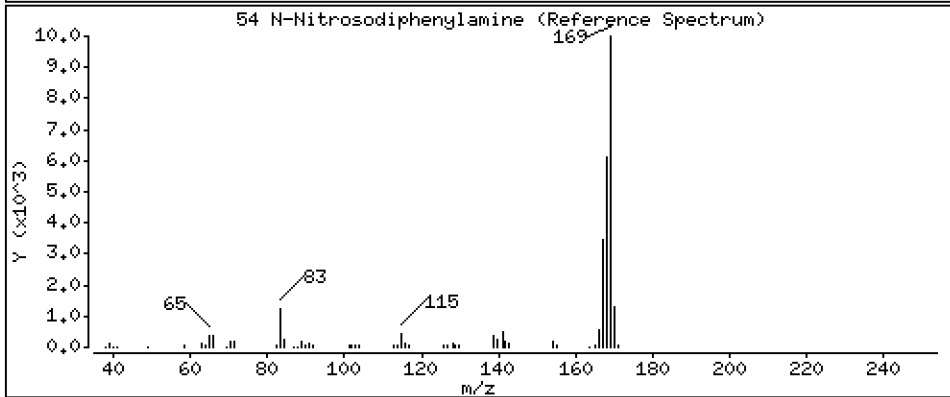
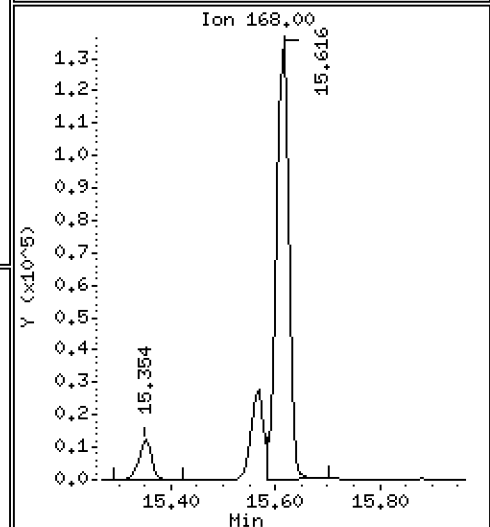
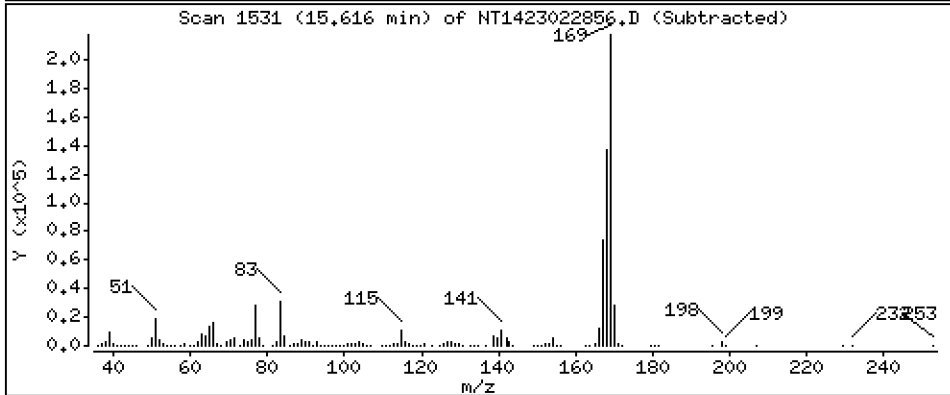
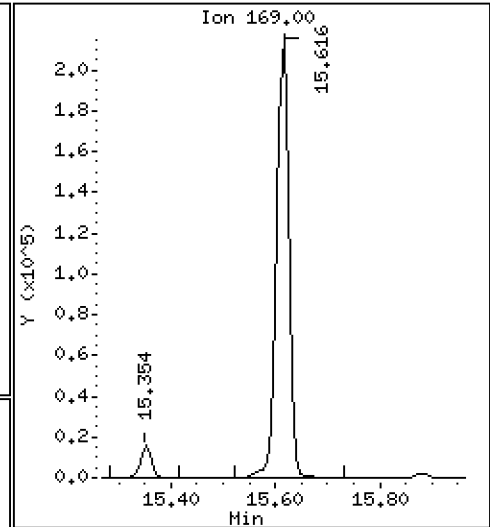
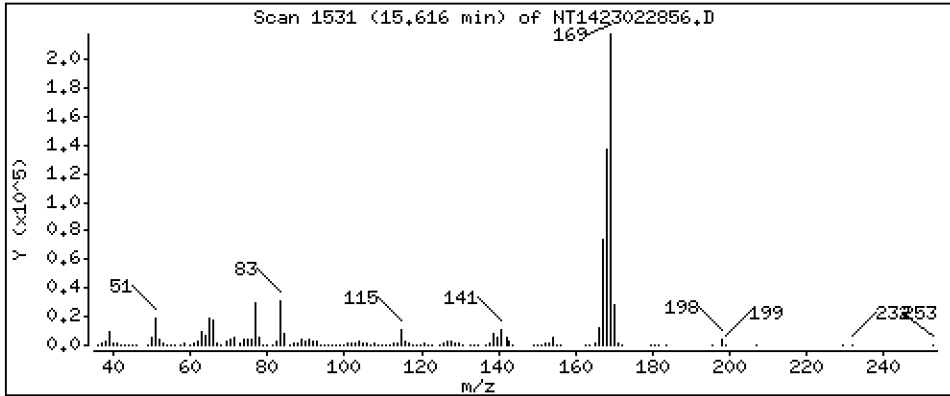
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

54 N-Nitrosodiphenylamine

Concentration: 5,329 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

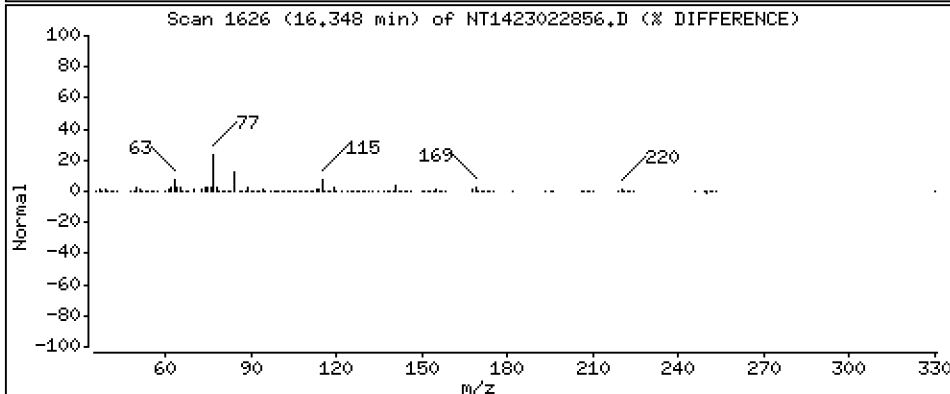
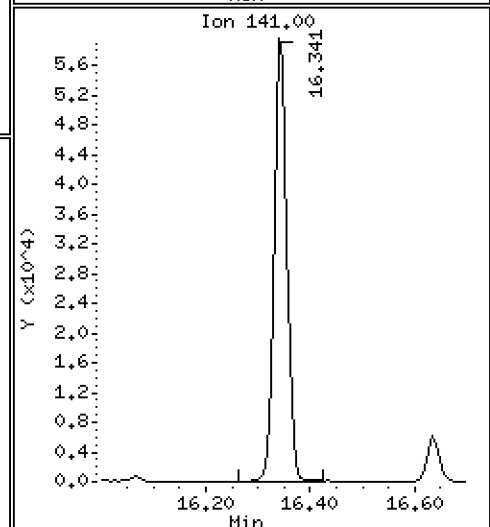
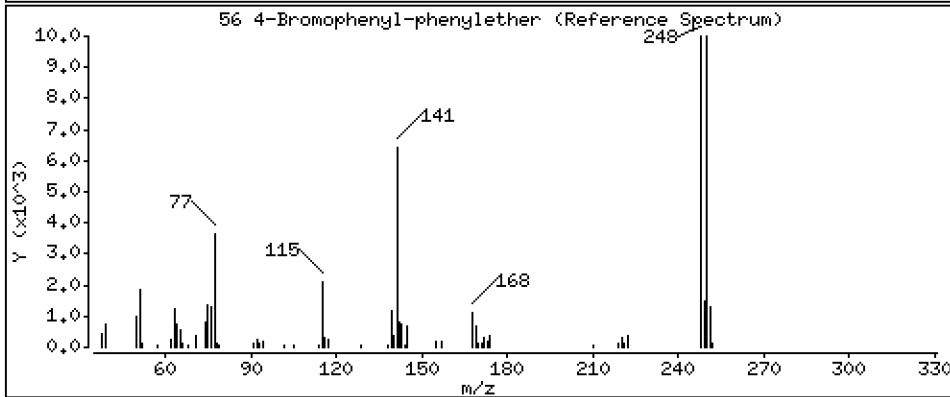
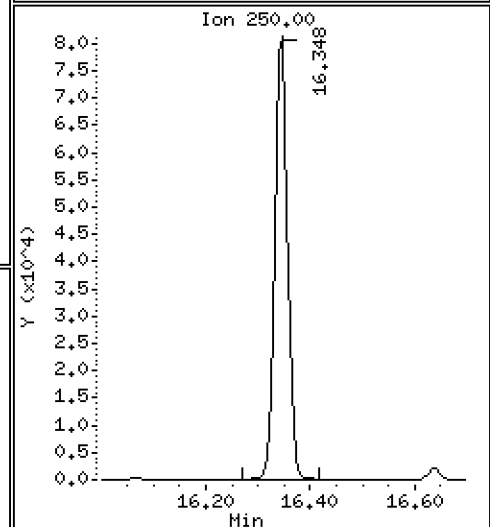
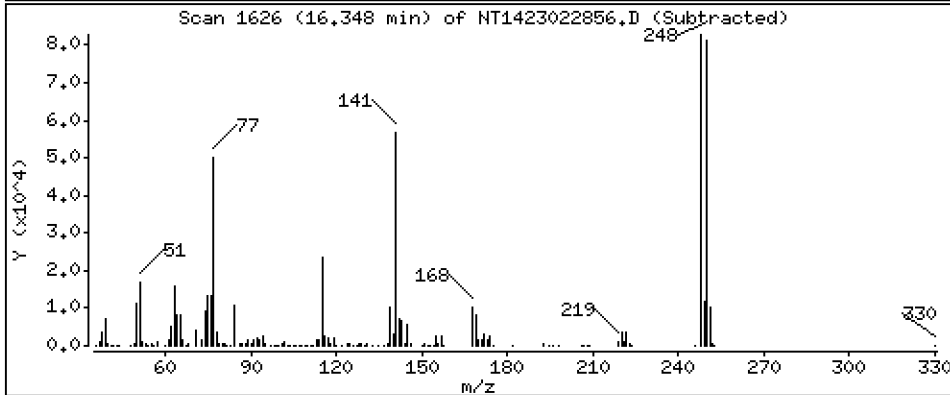
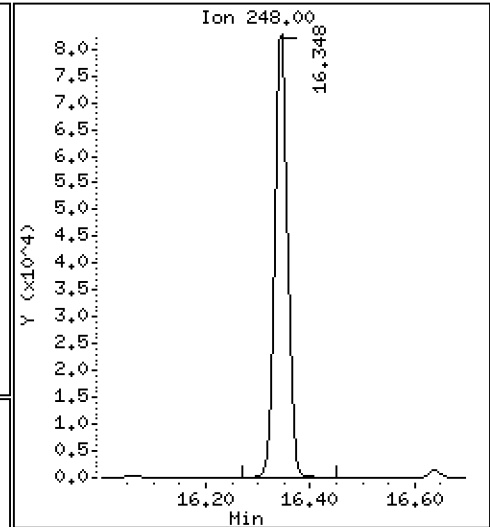
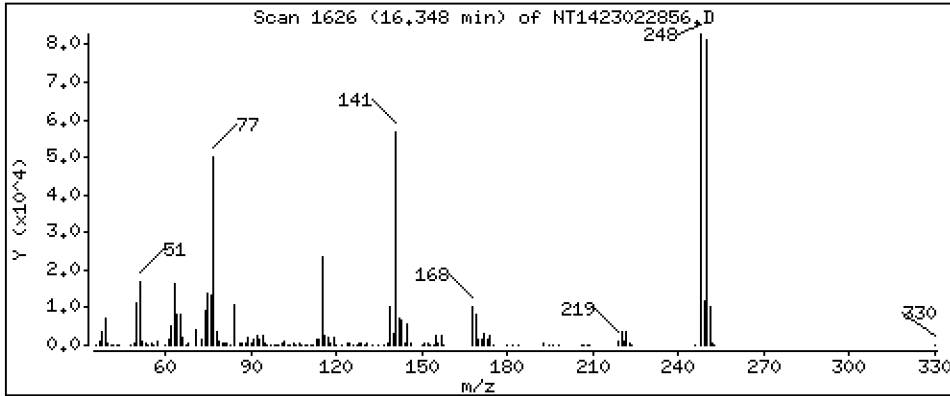
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 5,149 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

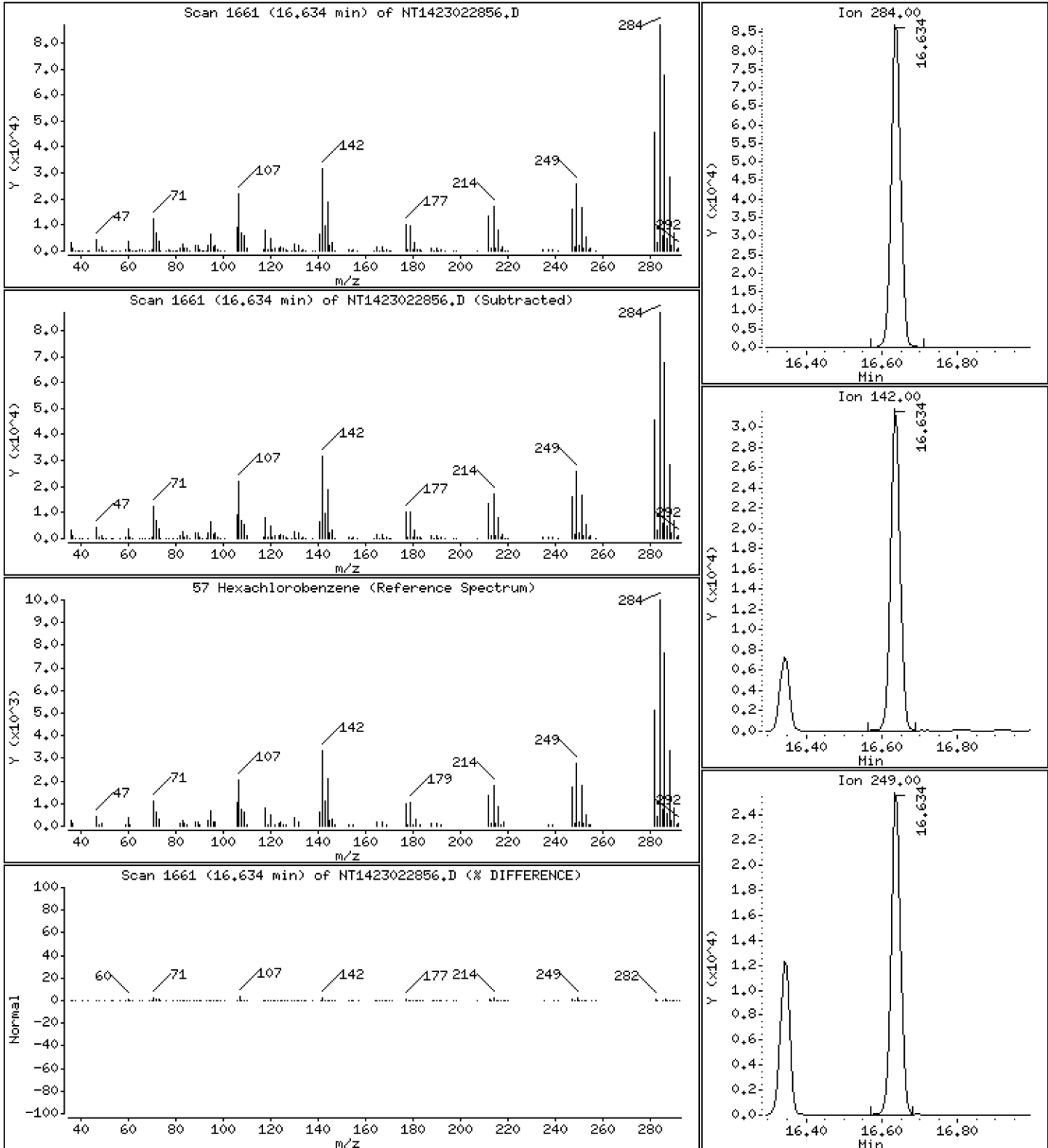
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

57 Hexachlorobenzene

Concentration: 4,996 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

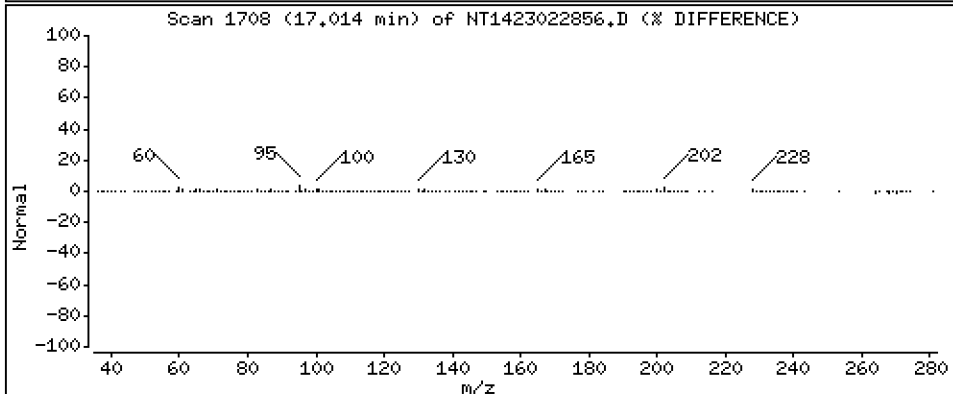
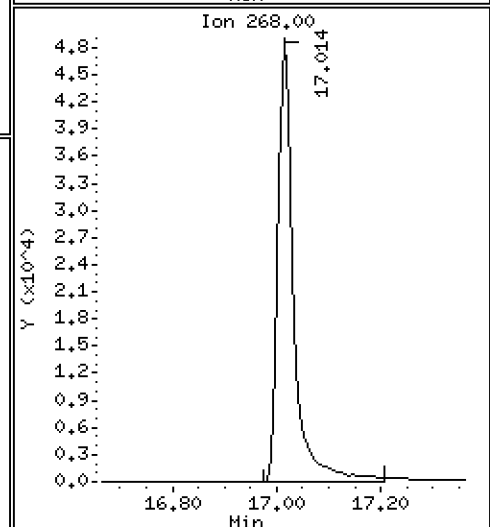
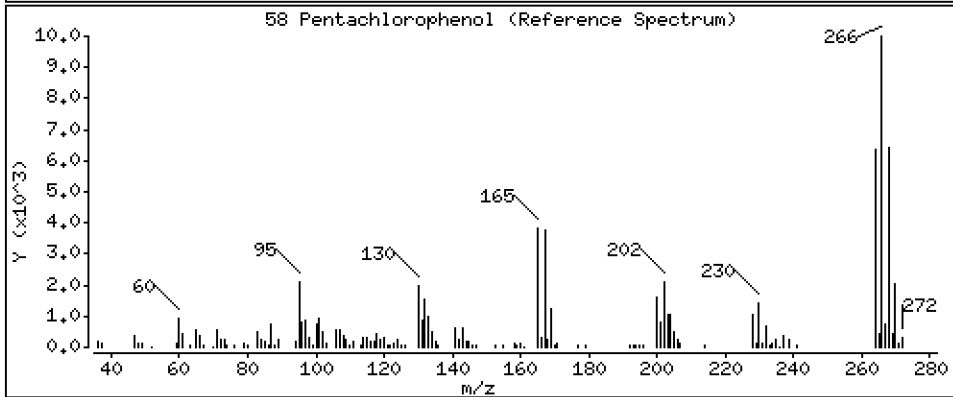
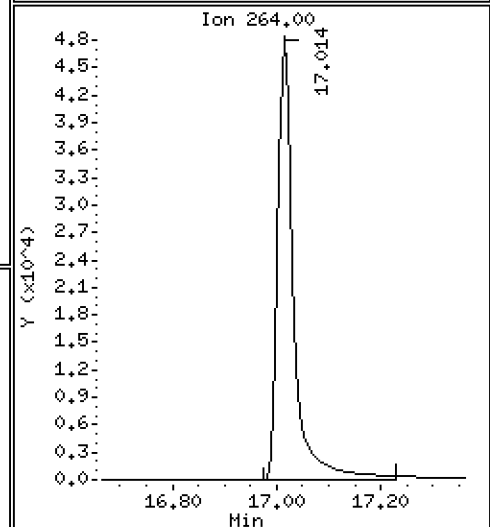
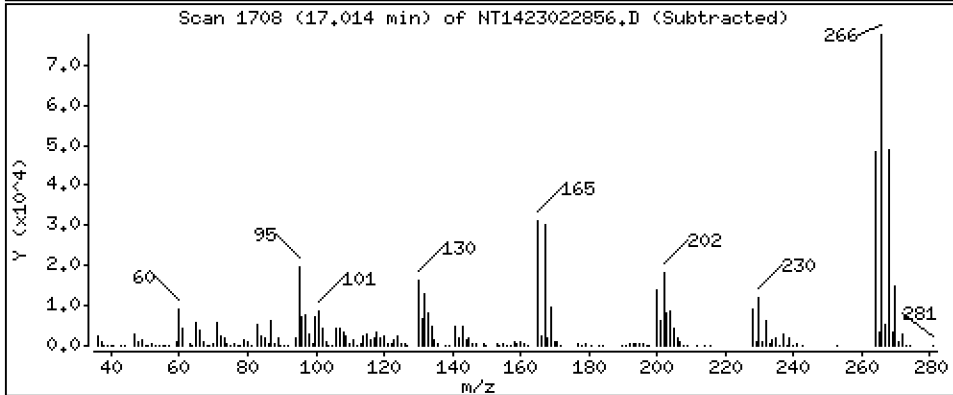
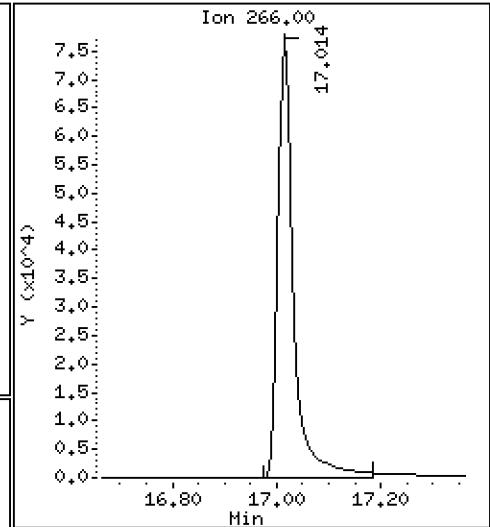
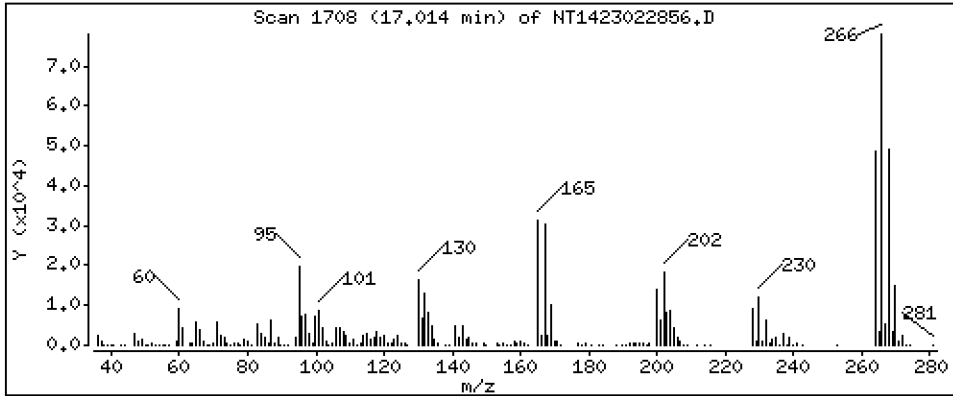
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 10,44 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

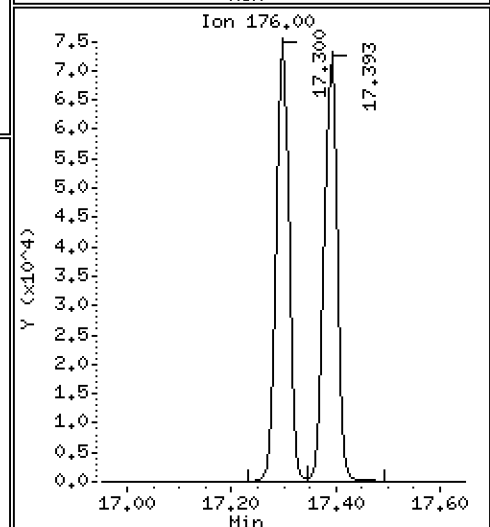
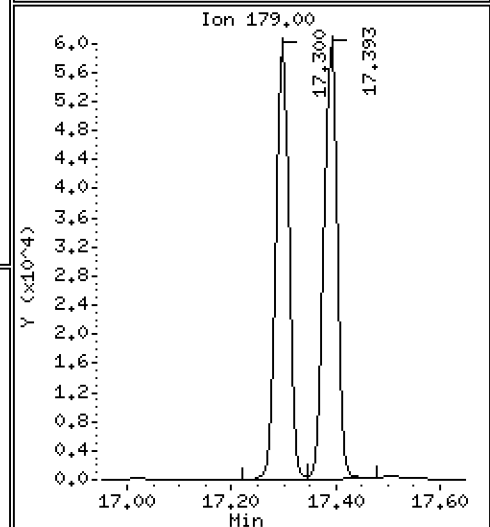
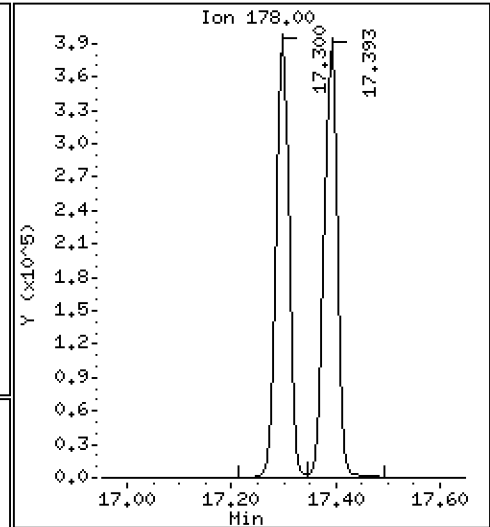
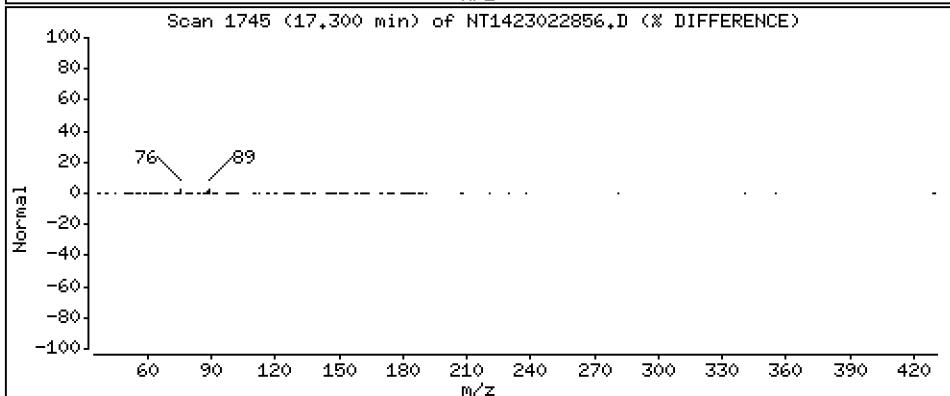
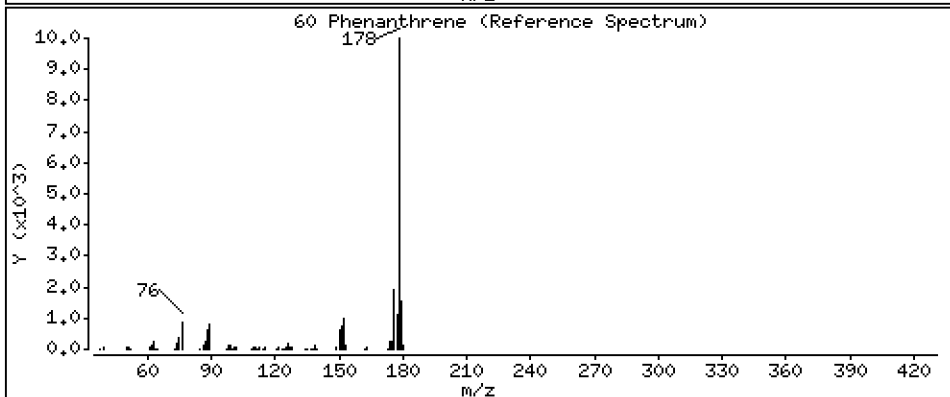
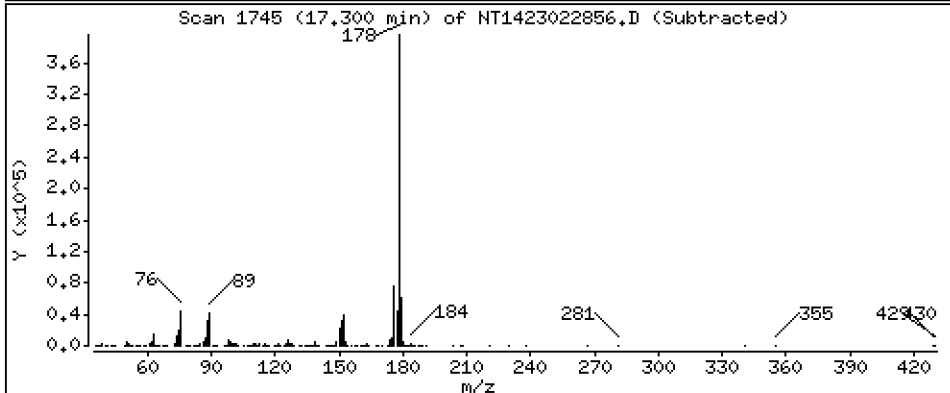
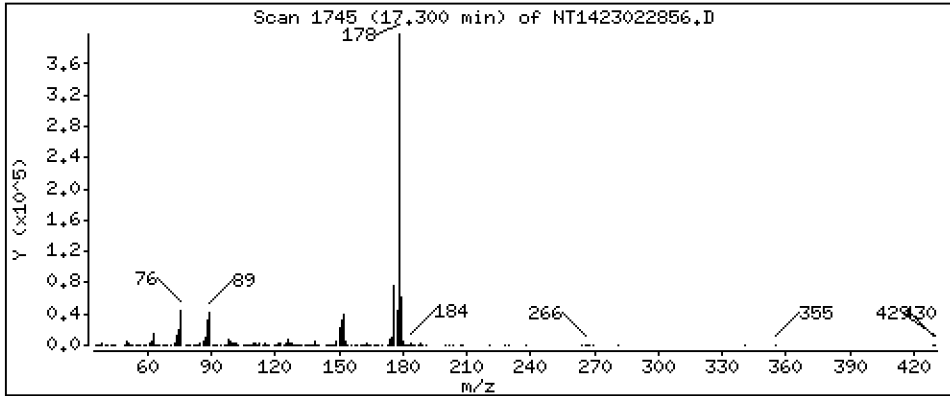
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 4,921 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

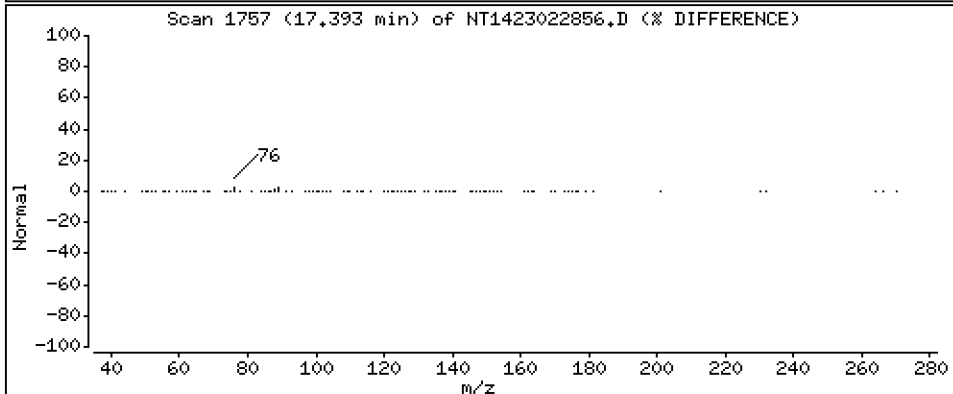
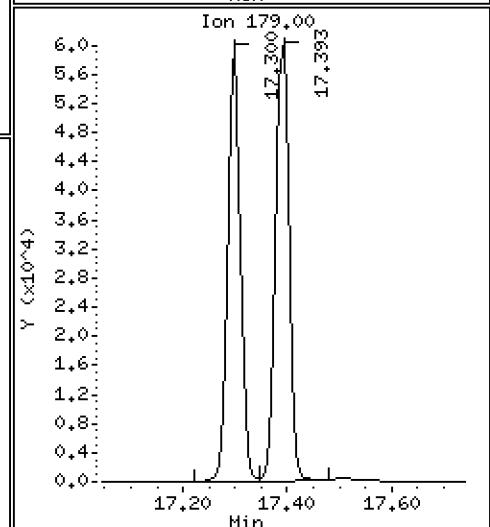
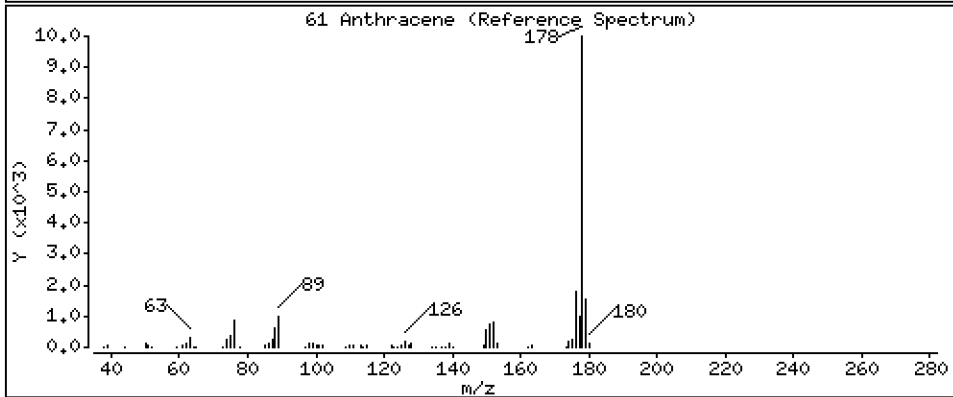
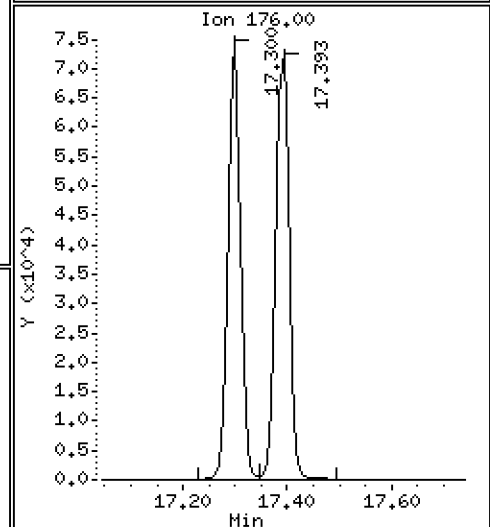
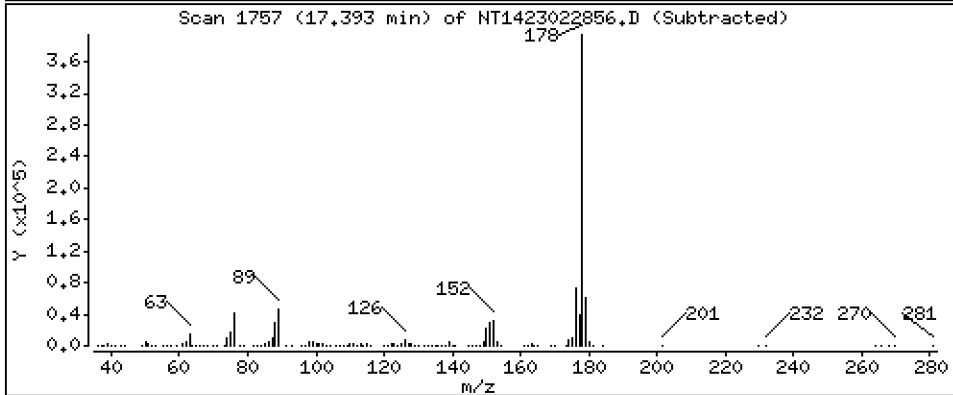
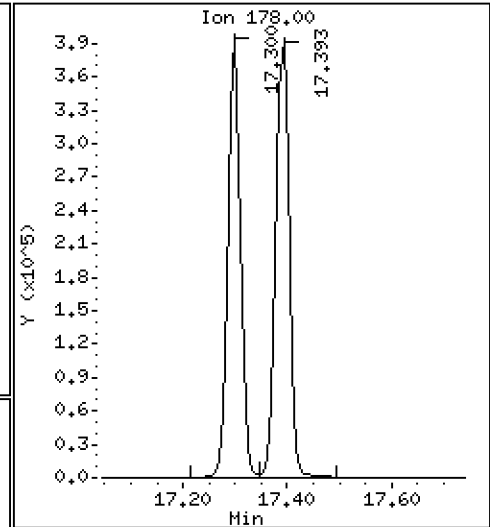
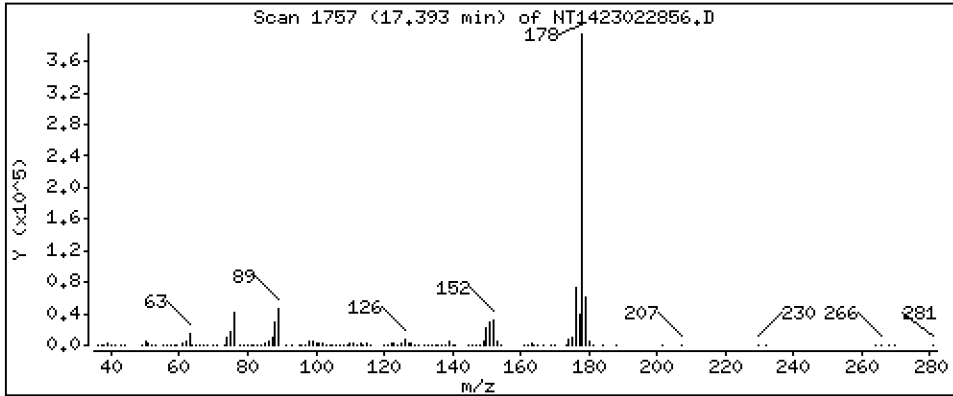
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 5,364 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

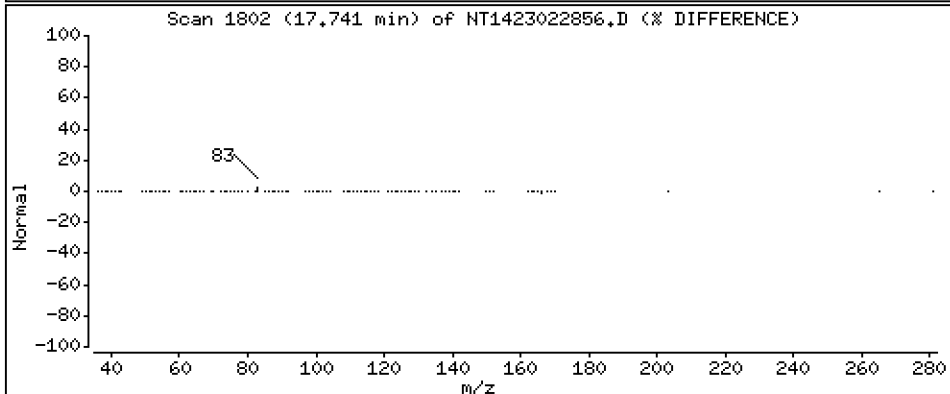
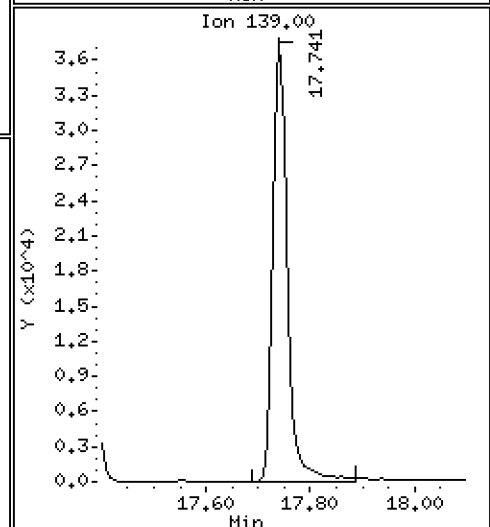
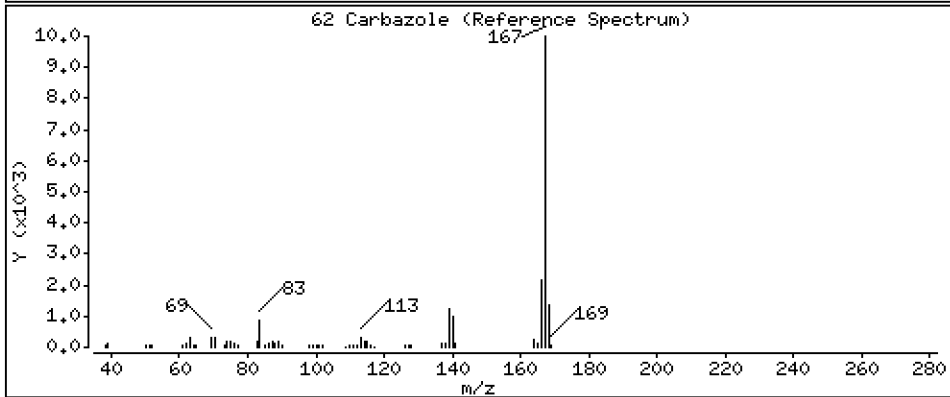
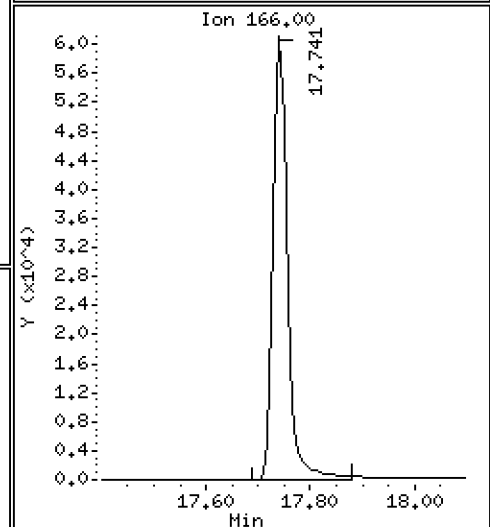
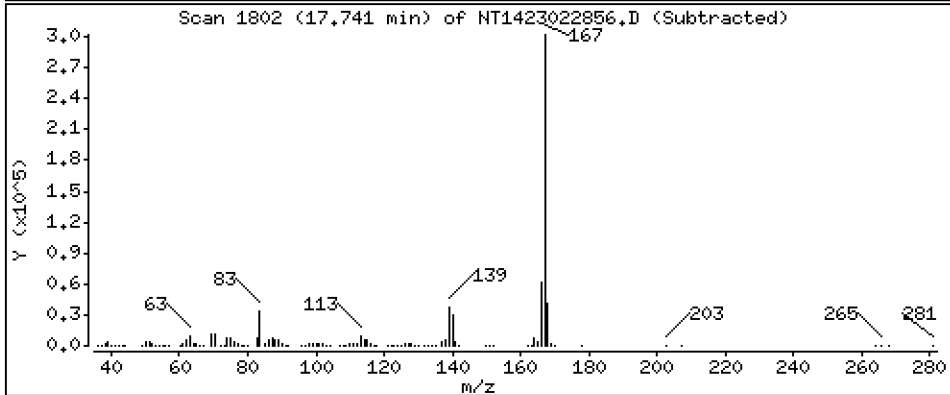
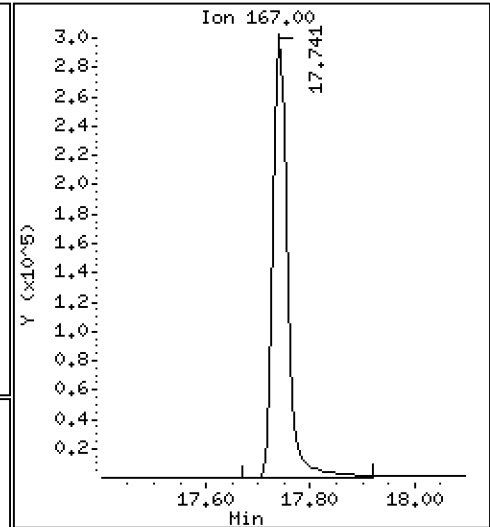
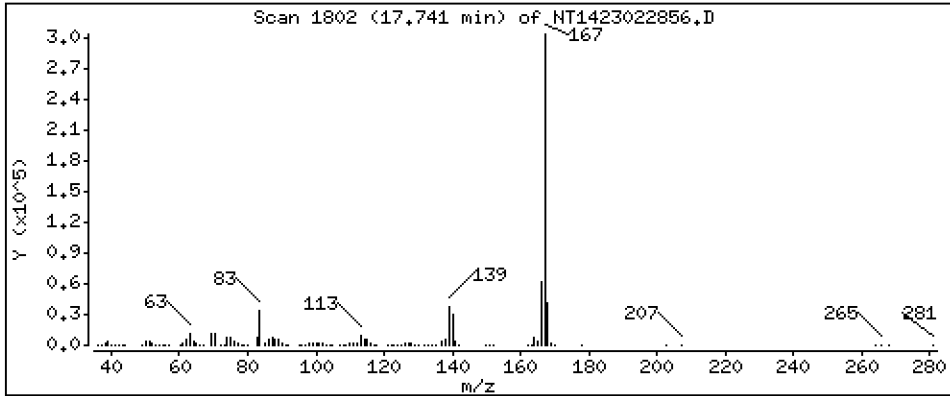
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 5,144 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

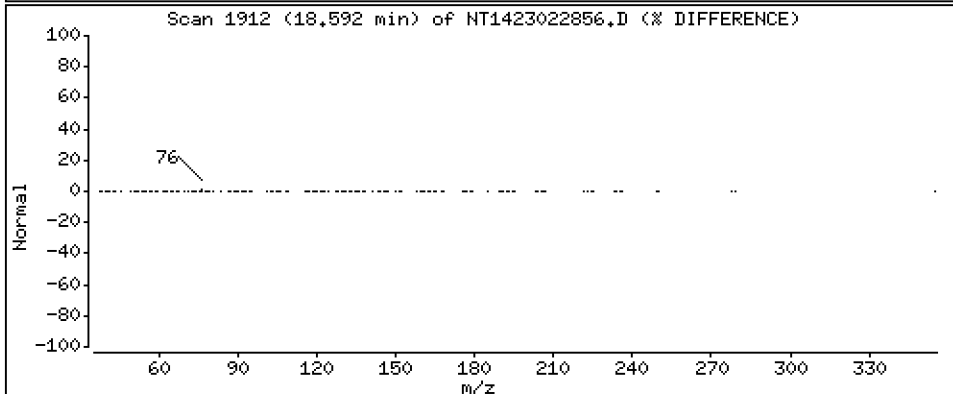
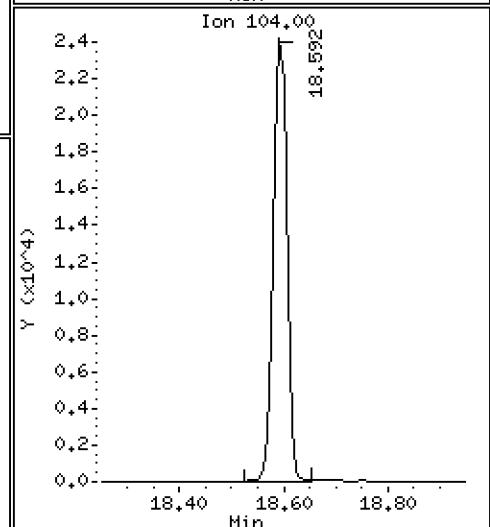
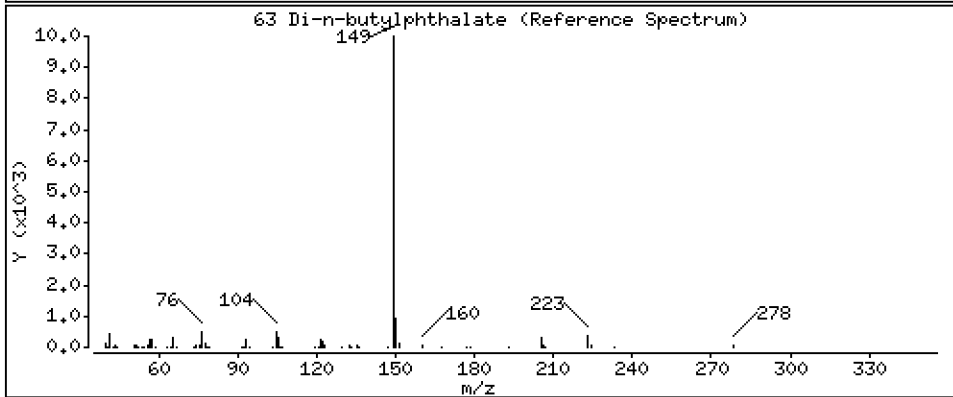
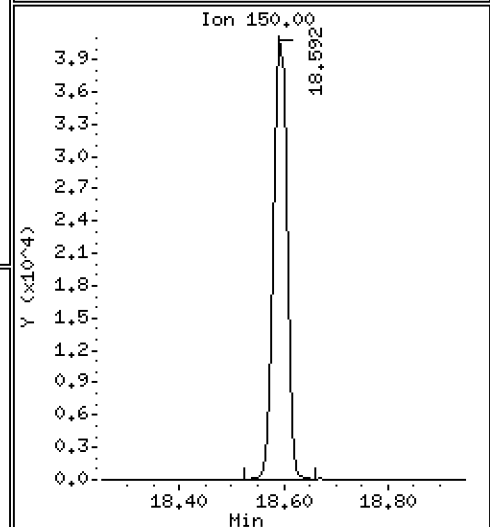
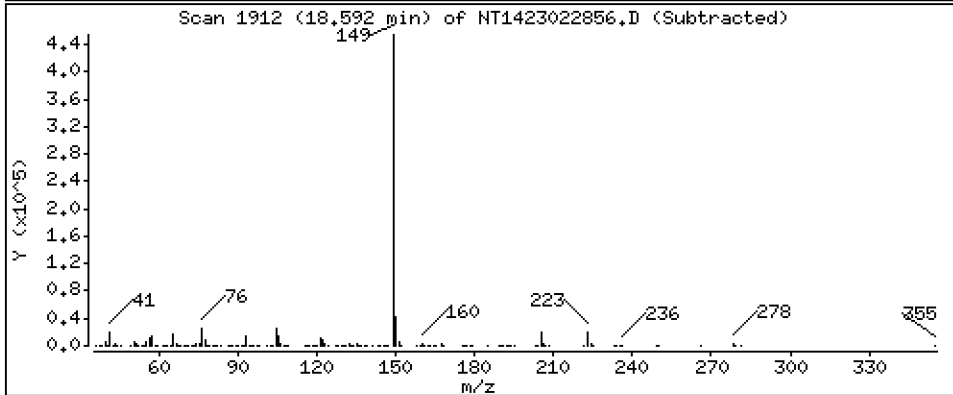
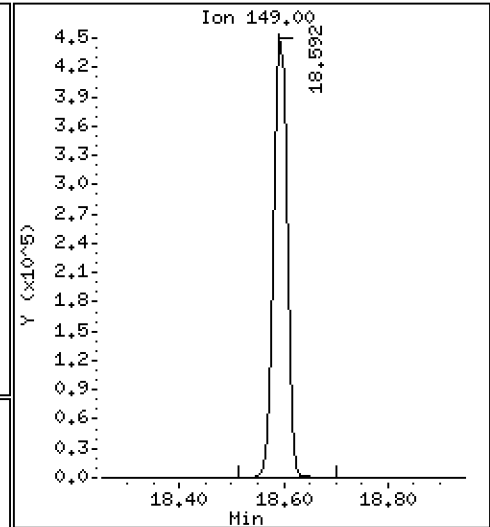
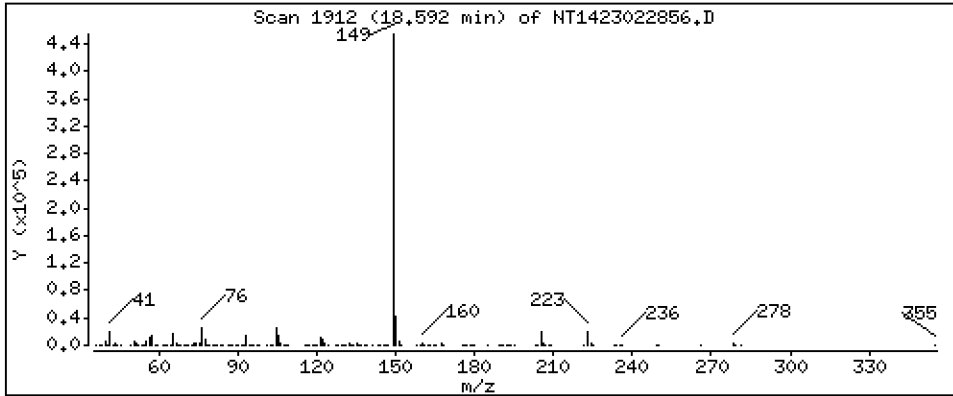
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 5,568 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

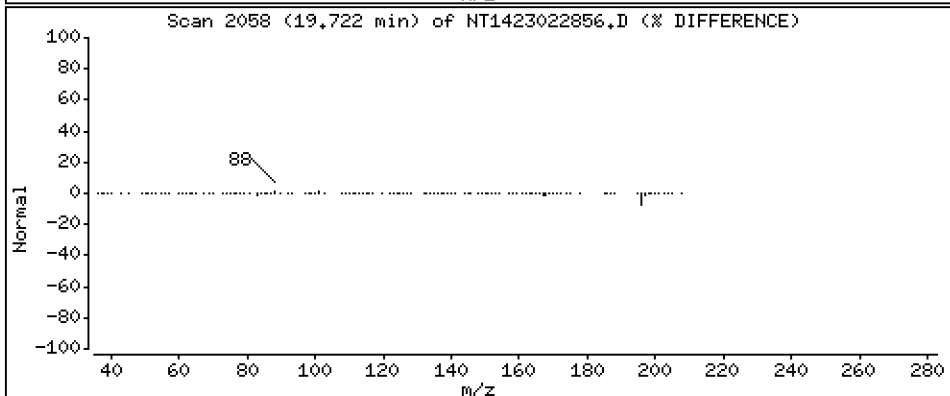
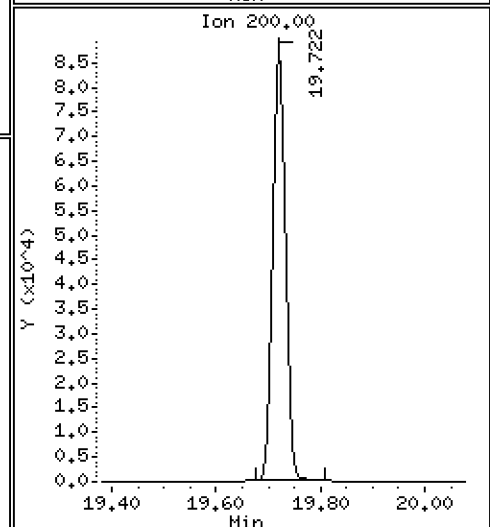
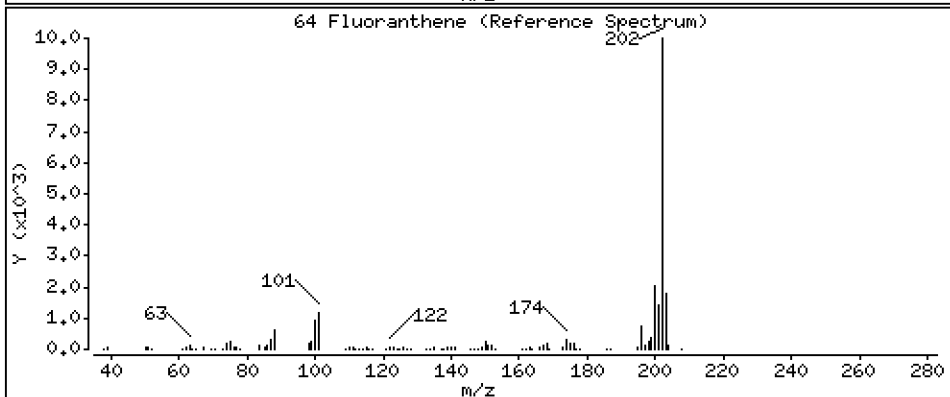
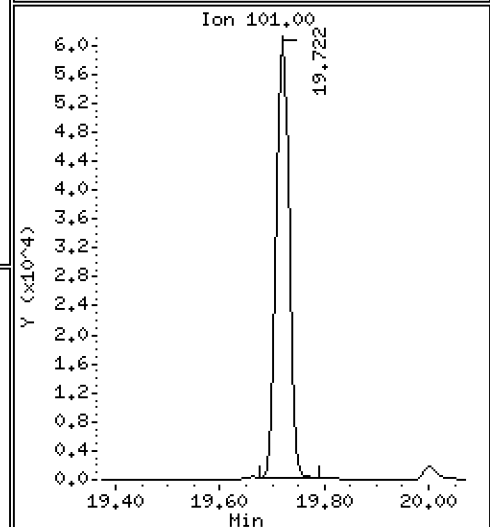
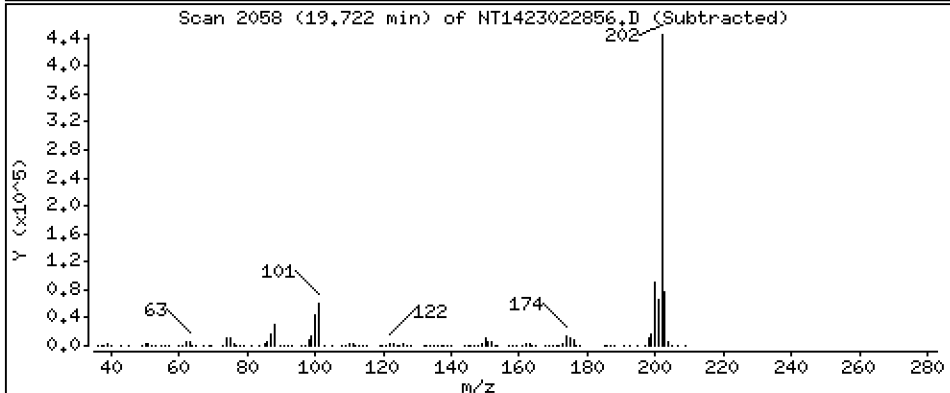
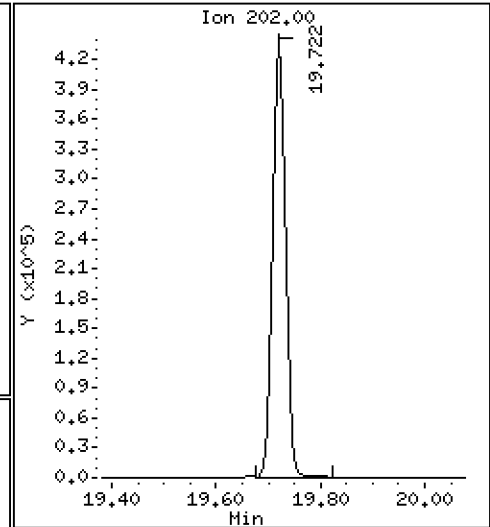
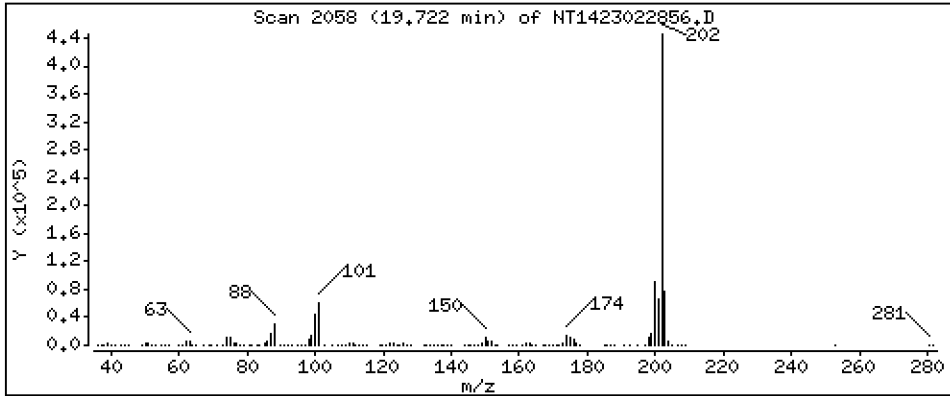
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 4,797 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

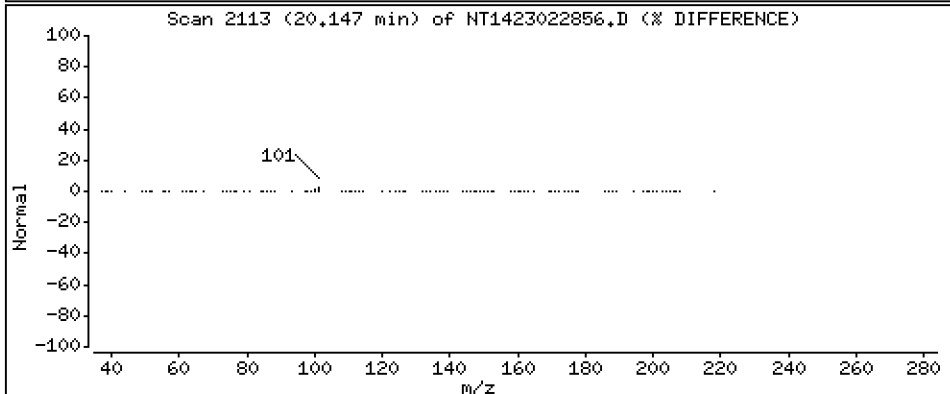
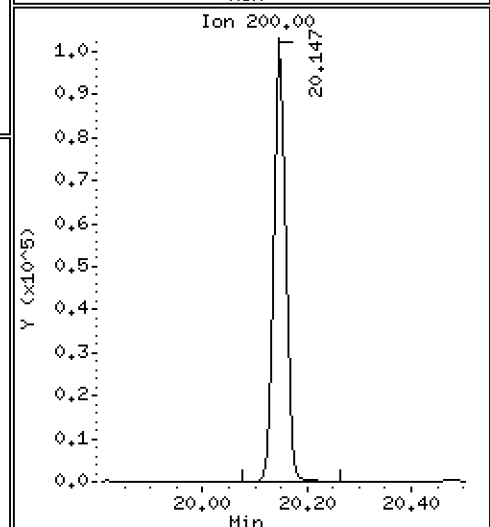
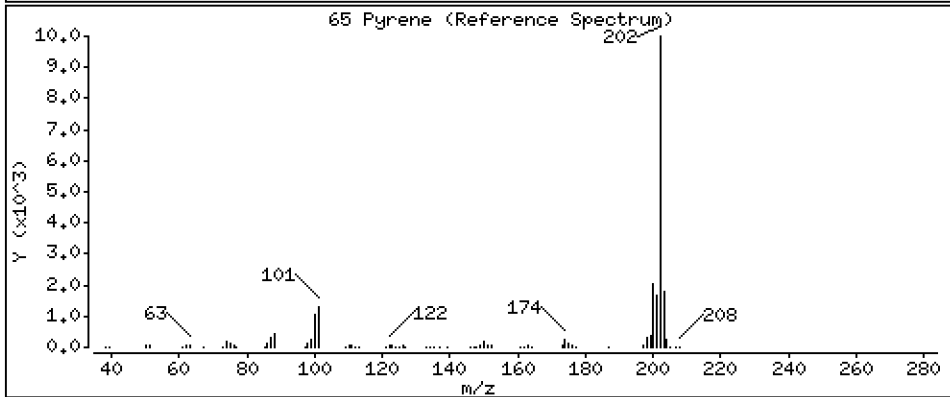
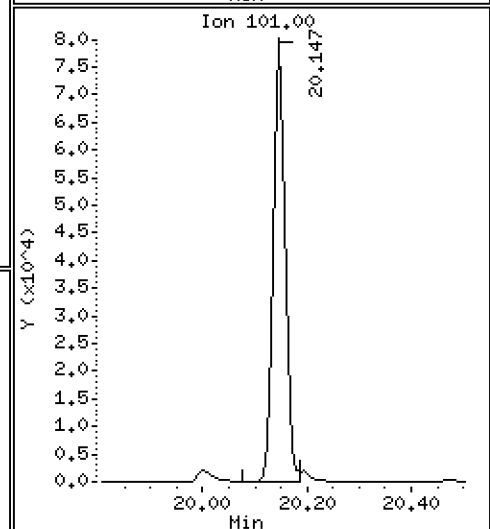
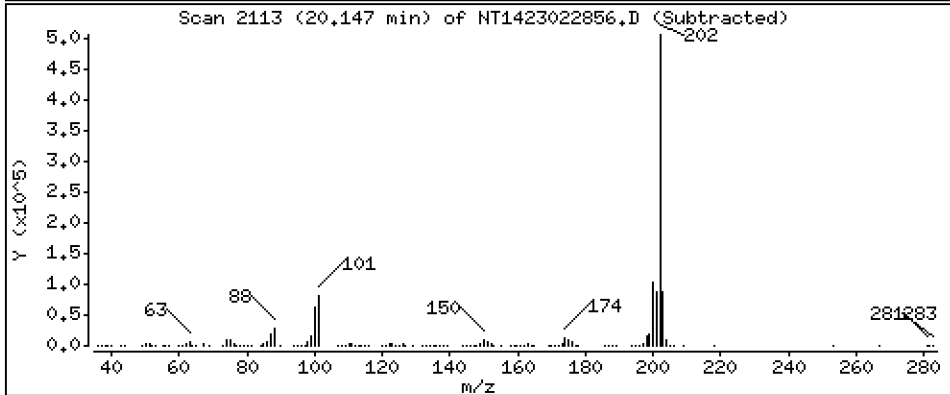
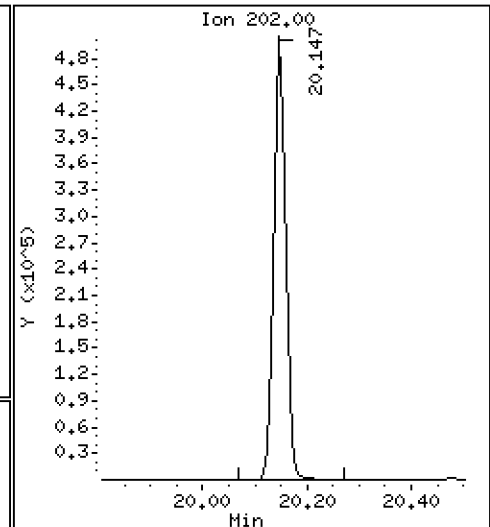
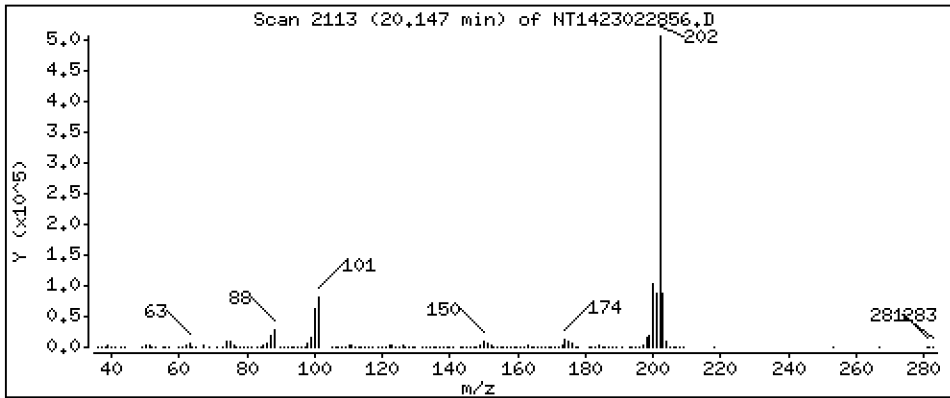
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 4,787 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

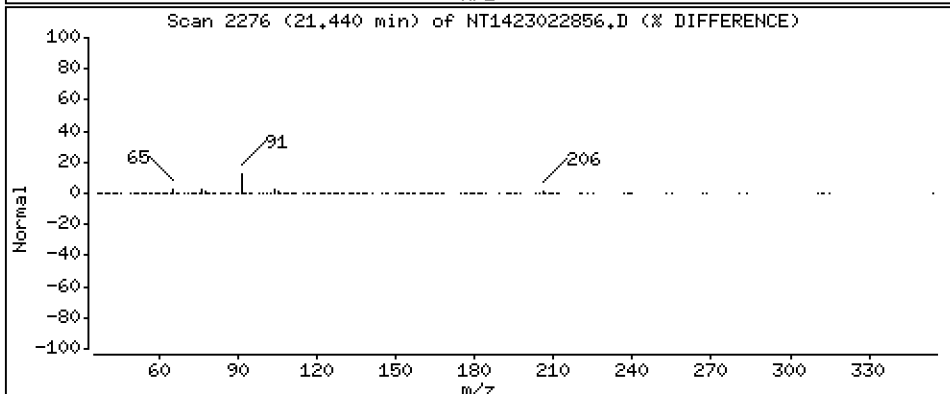
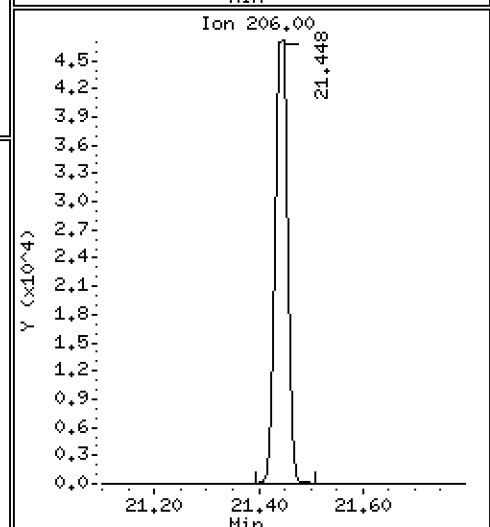
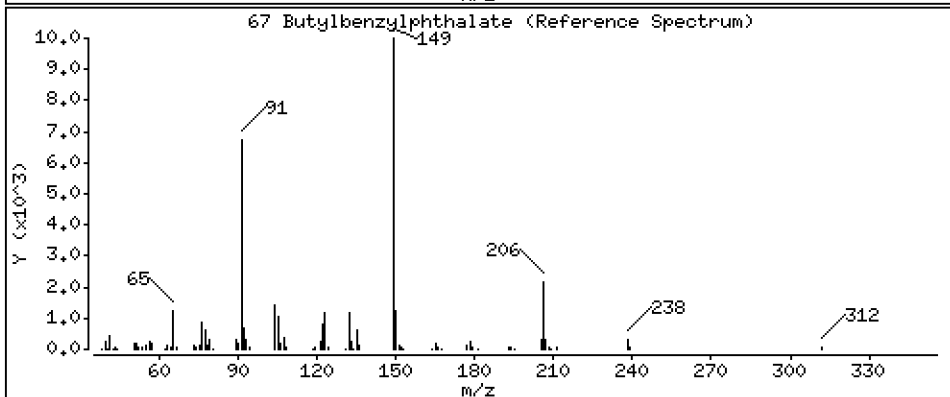
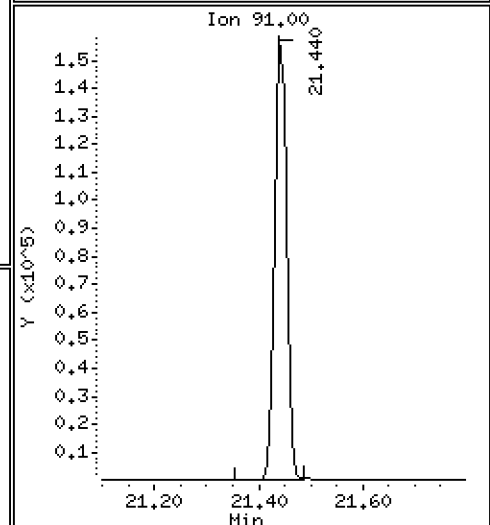
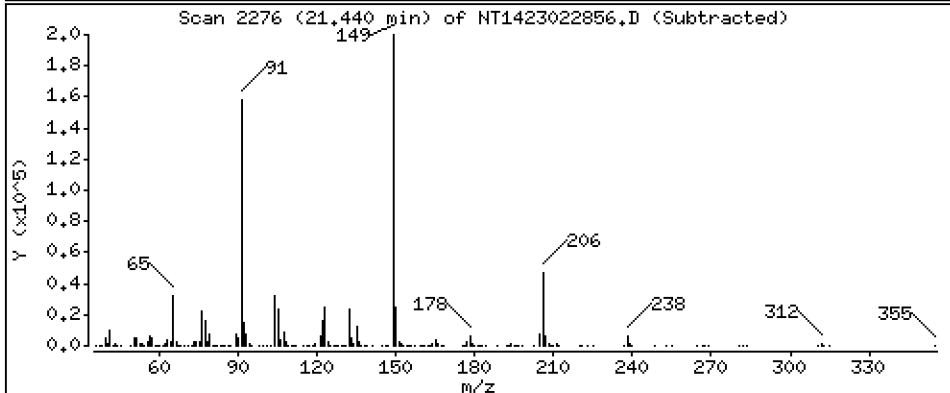
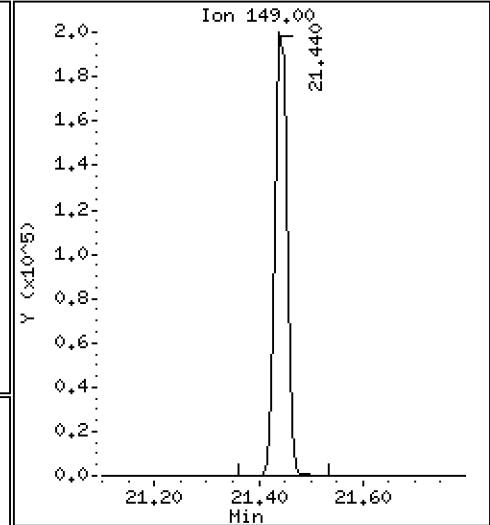
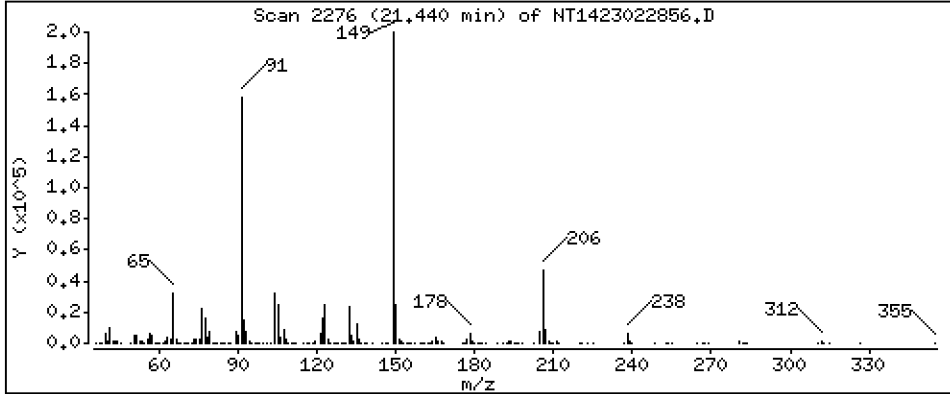
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 5,449 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

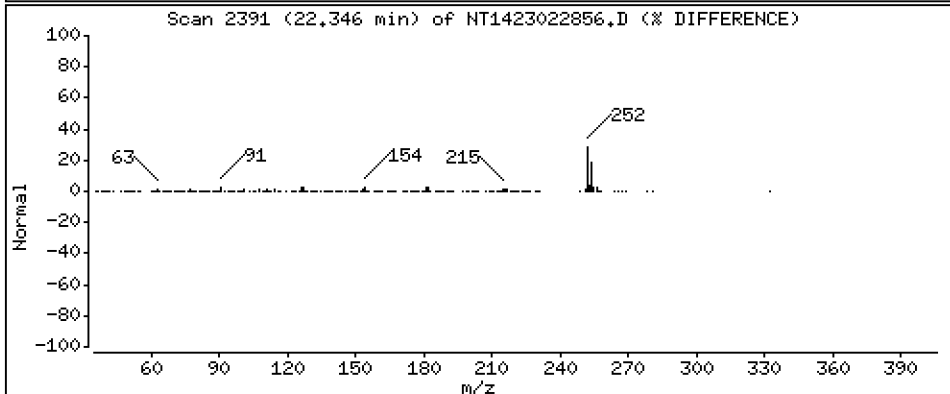
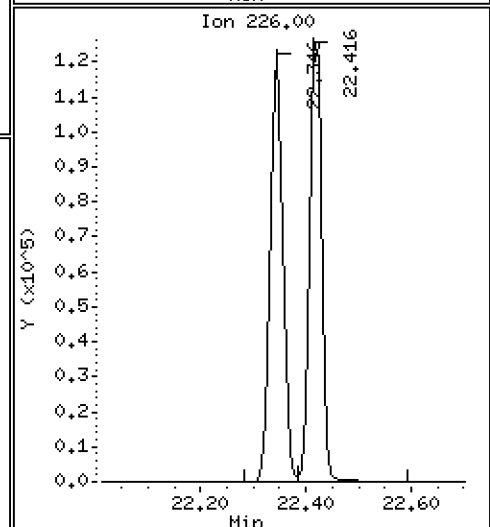
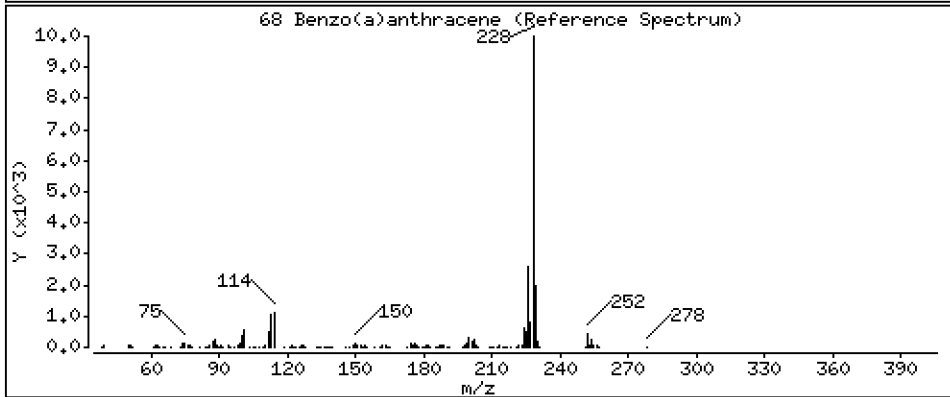
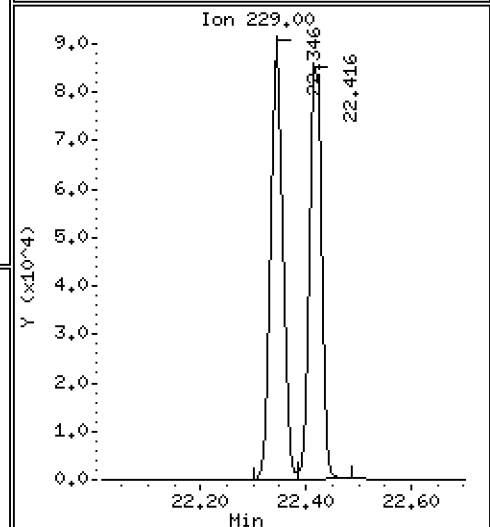
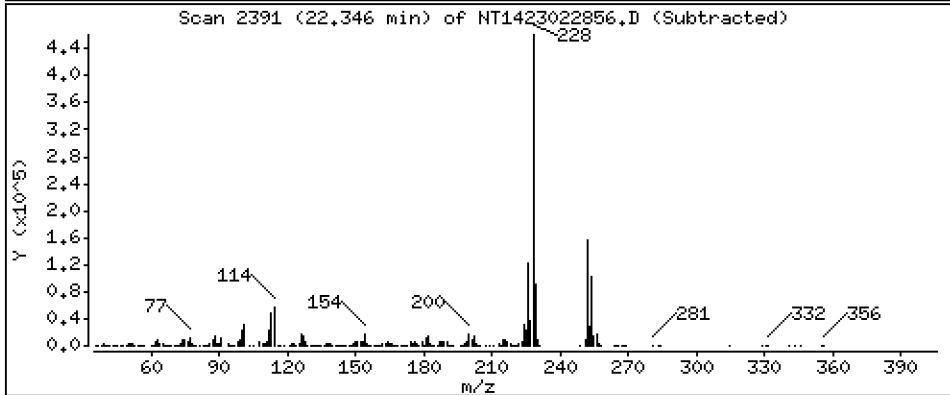
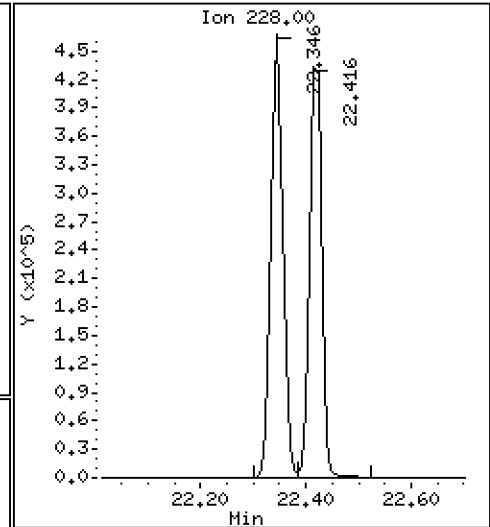
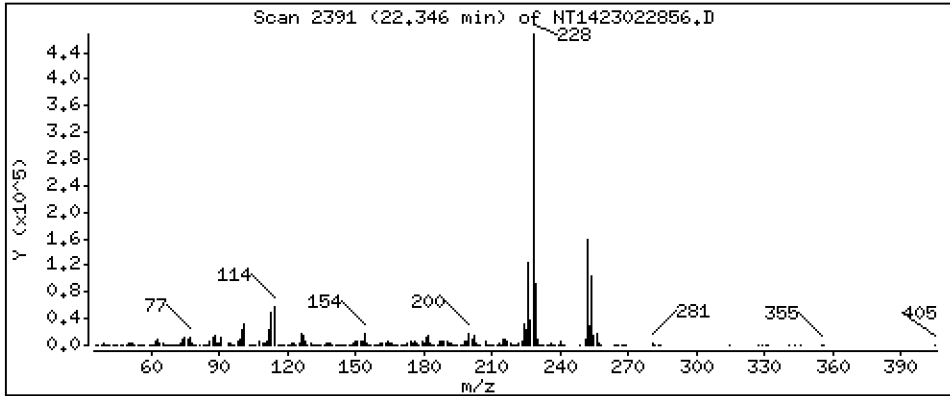
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 5,443 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

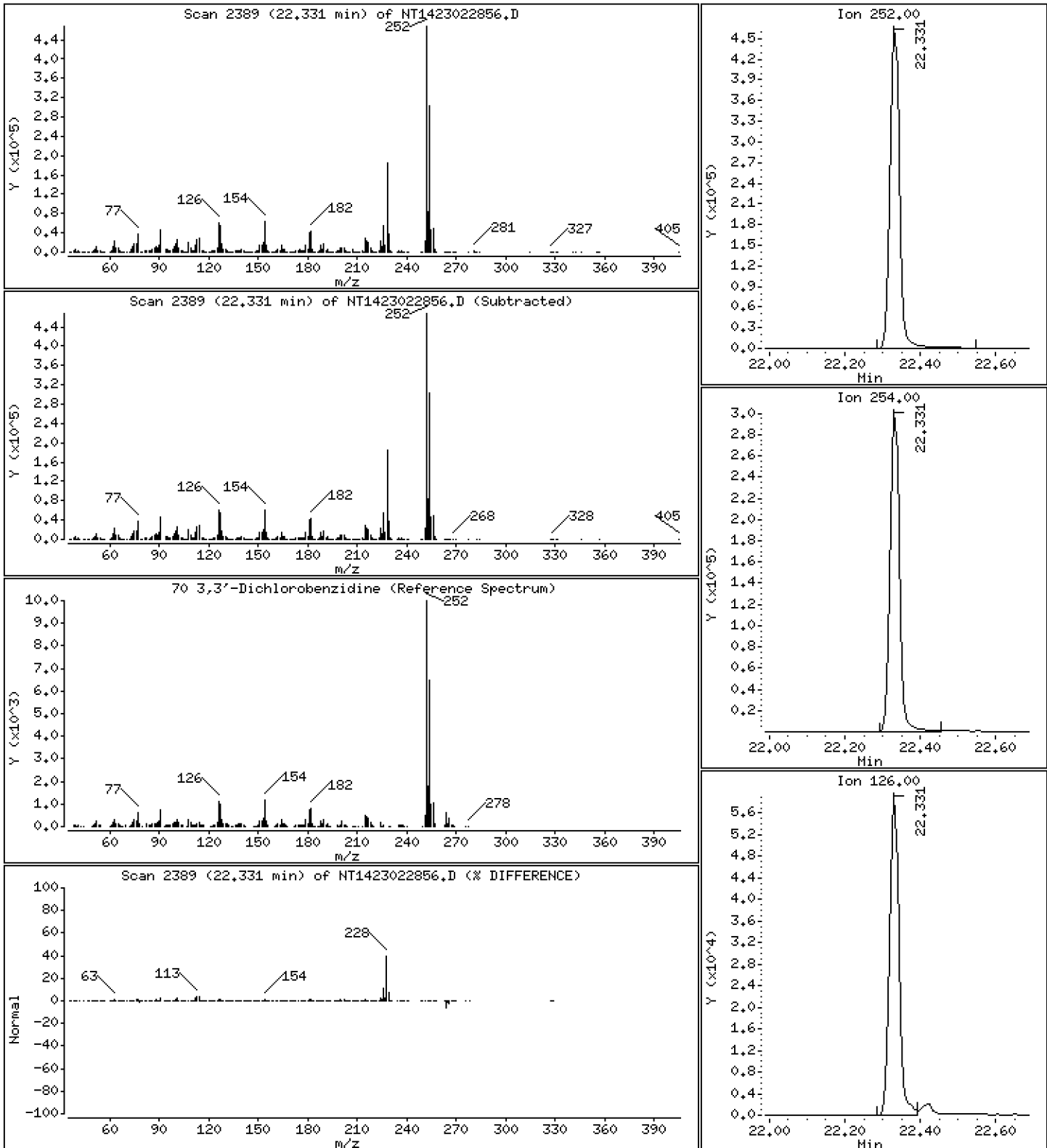
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

70 3,3'-Dichlorobenzidine

Concentration: 19,61 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

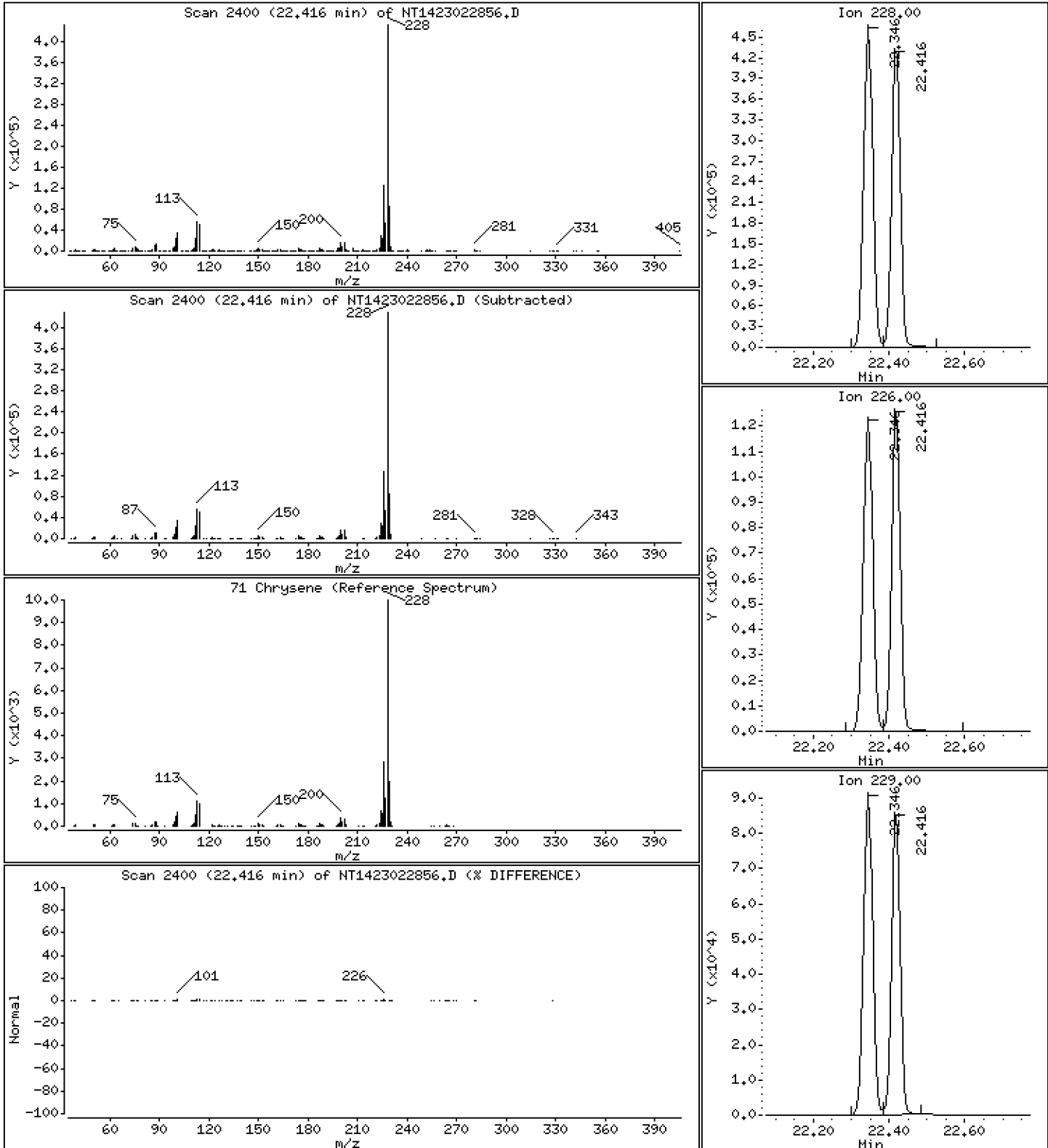
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 5,053 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

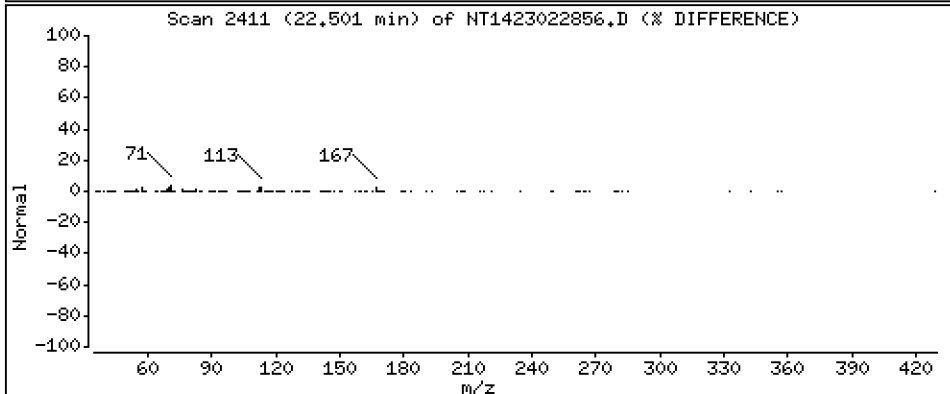
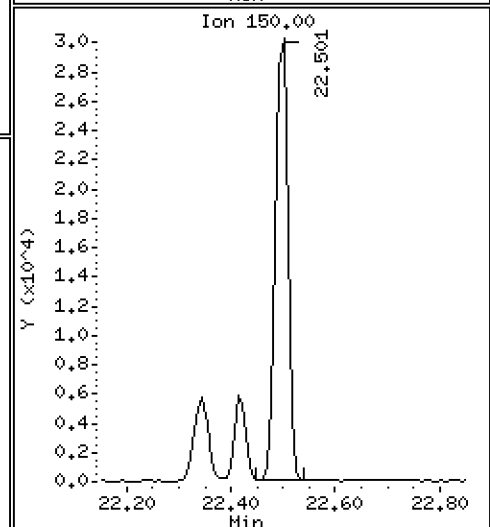
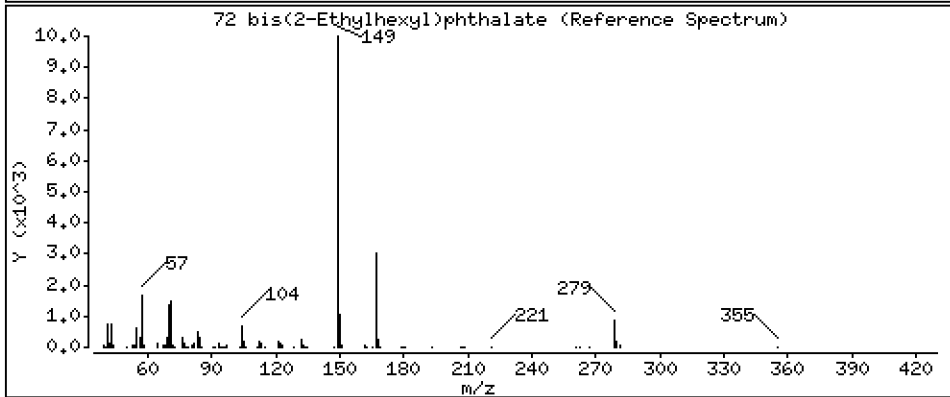
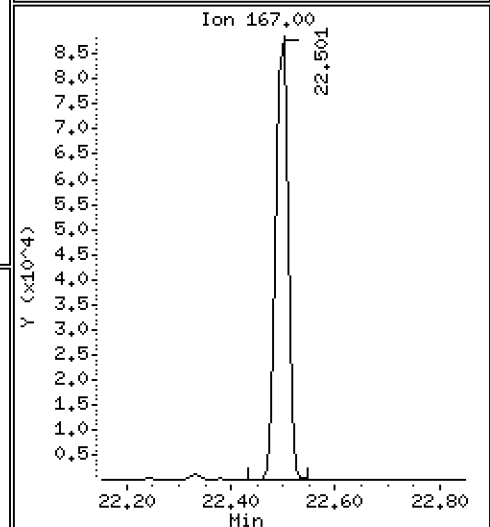
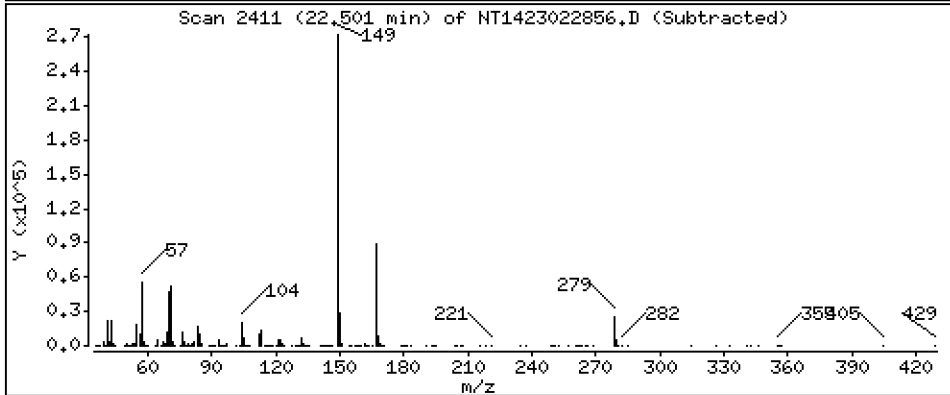
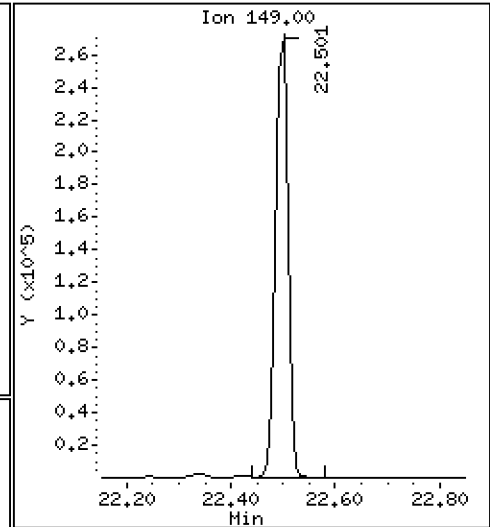
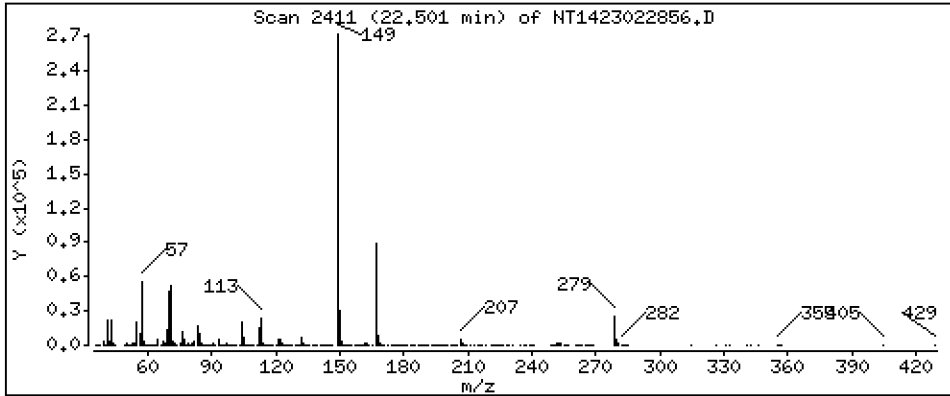
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 4,813 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

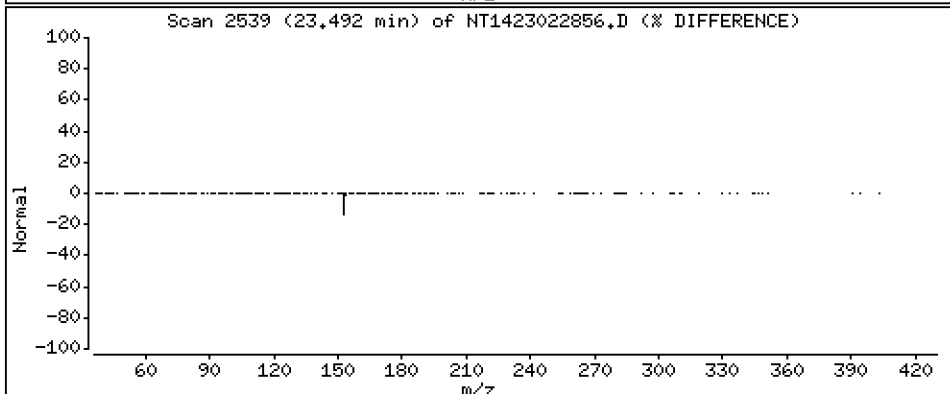
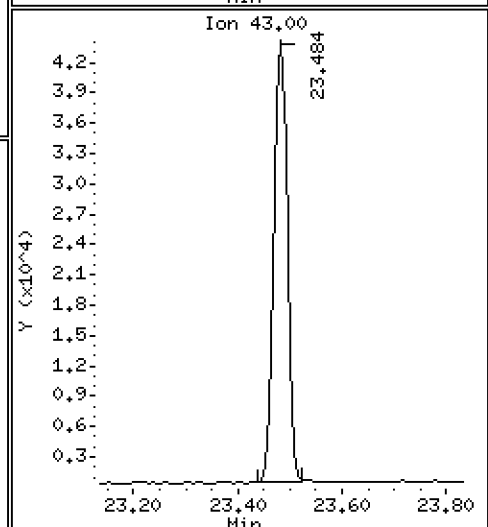
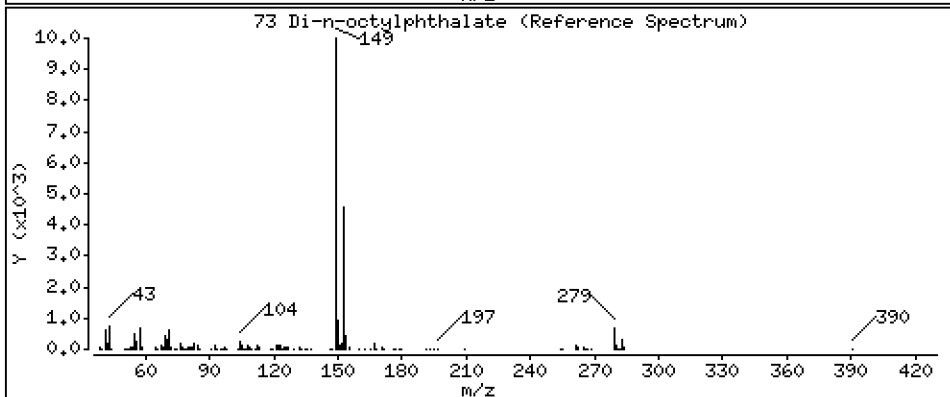
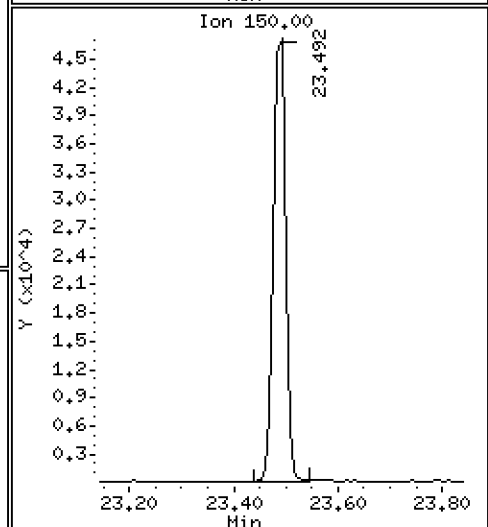
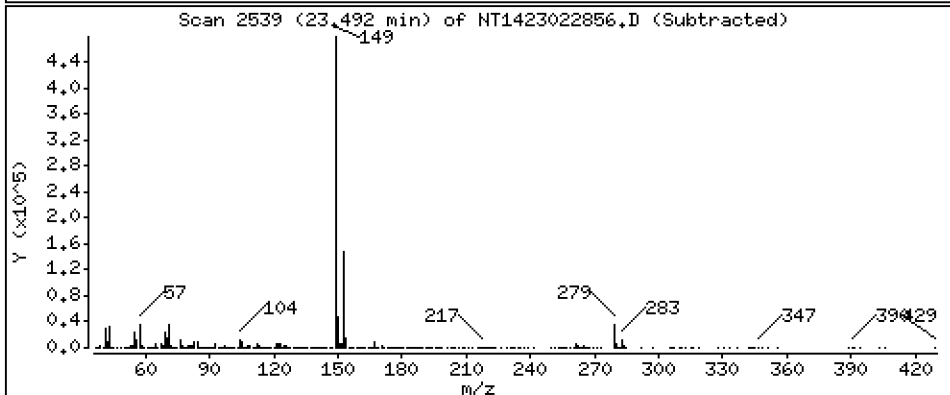
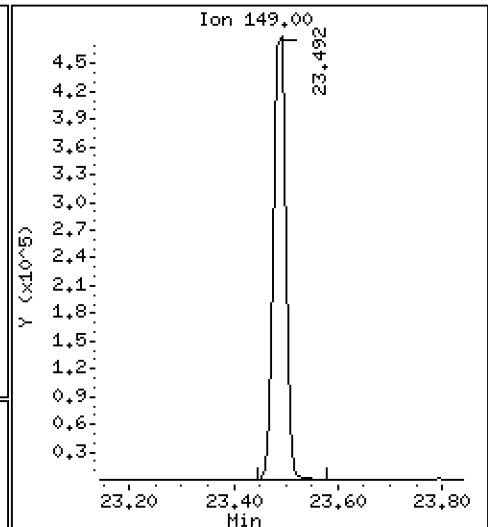
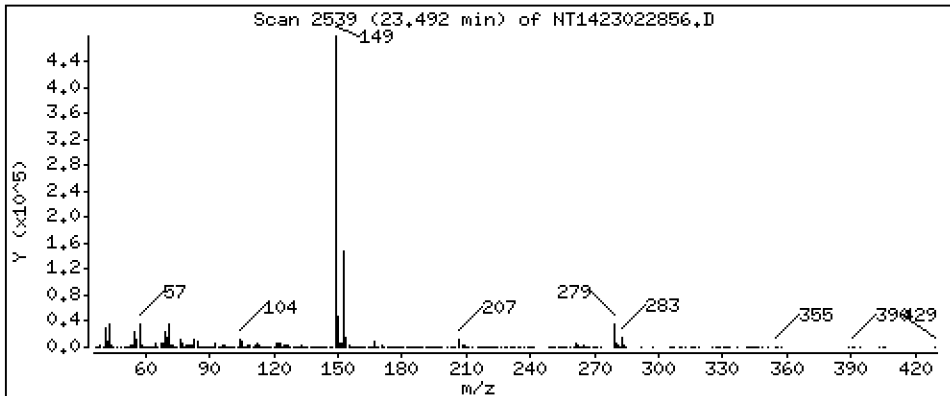
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 4,758 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

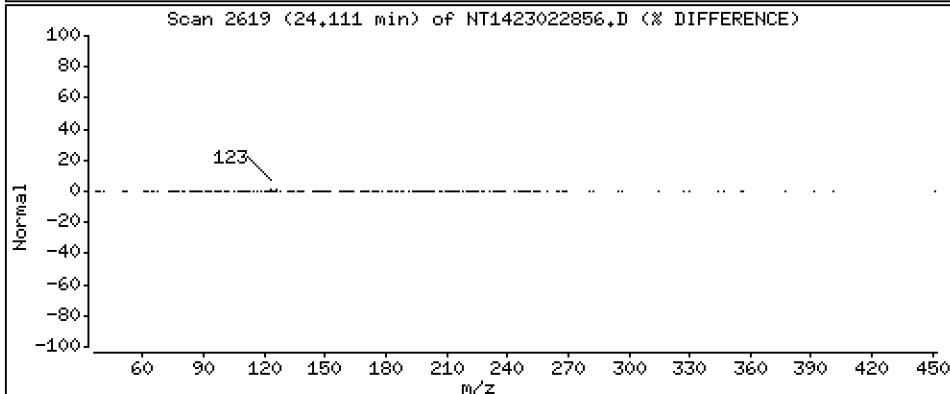
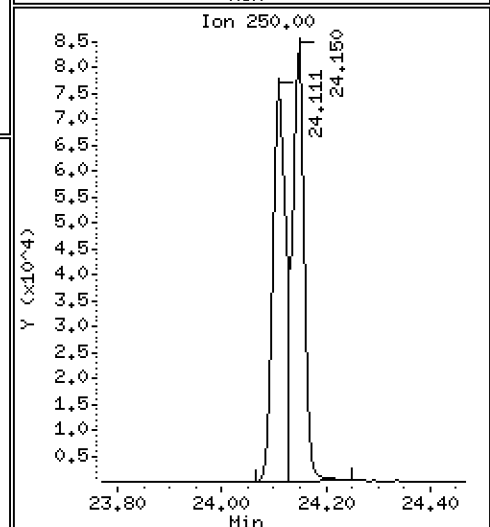
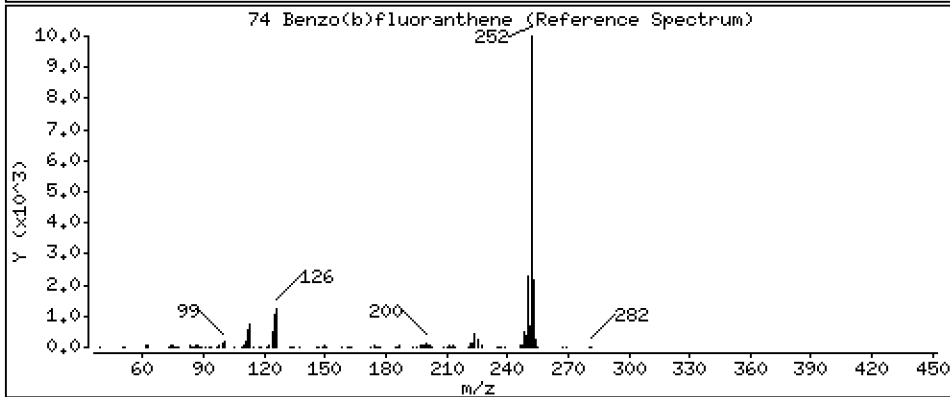
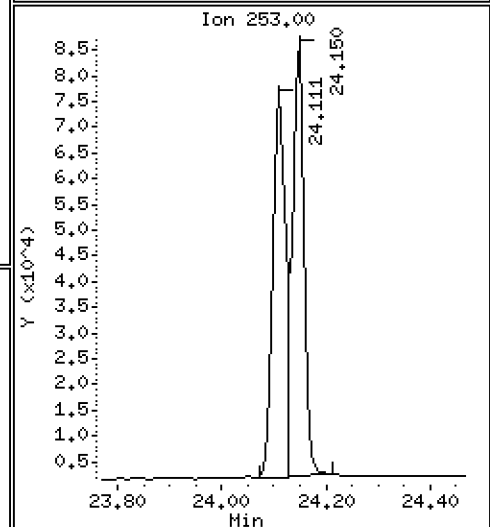
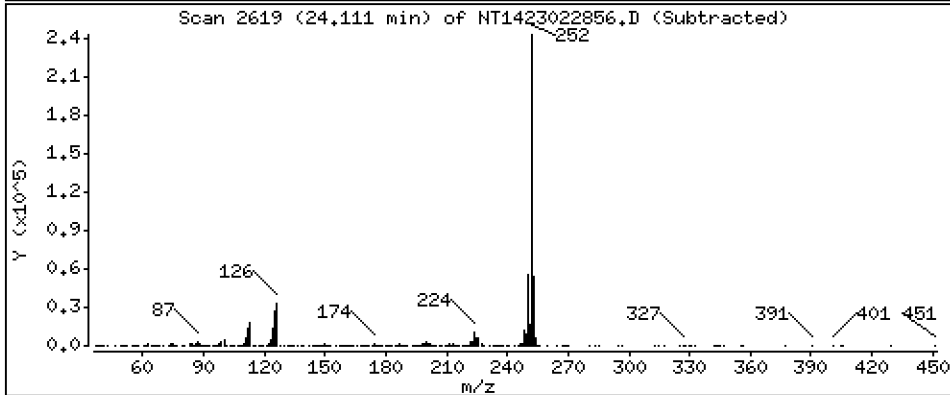
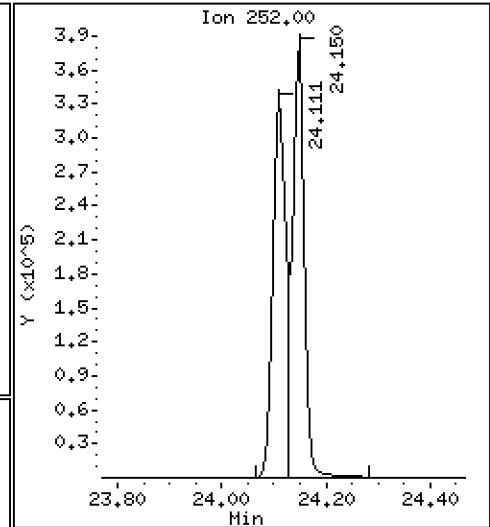
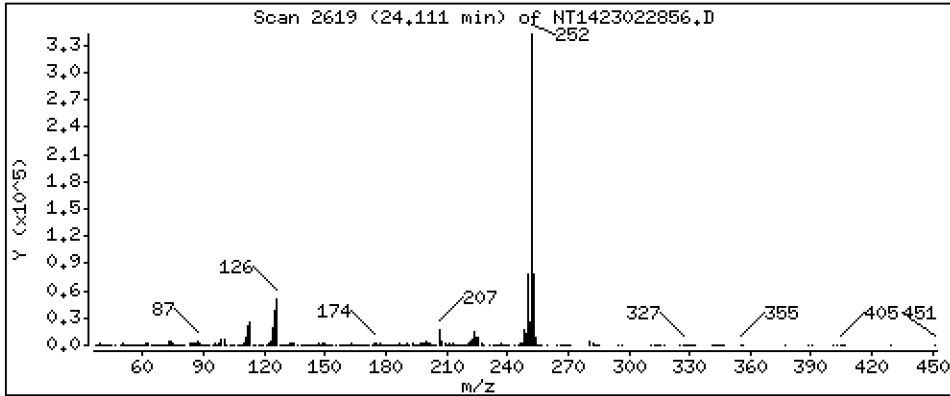
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 6,031 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

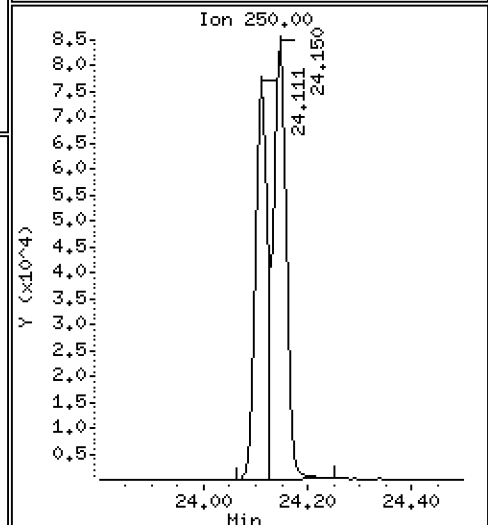
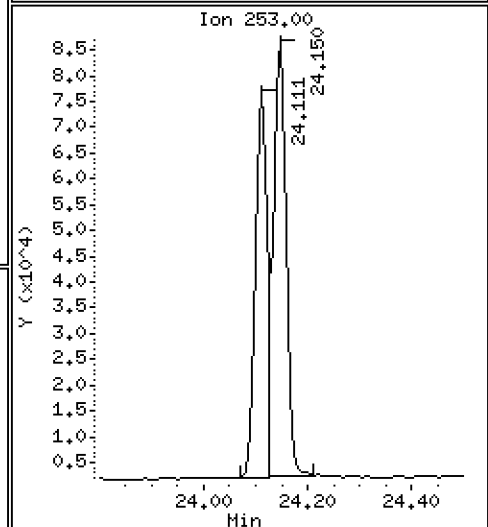
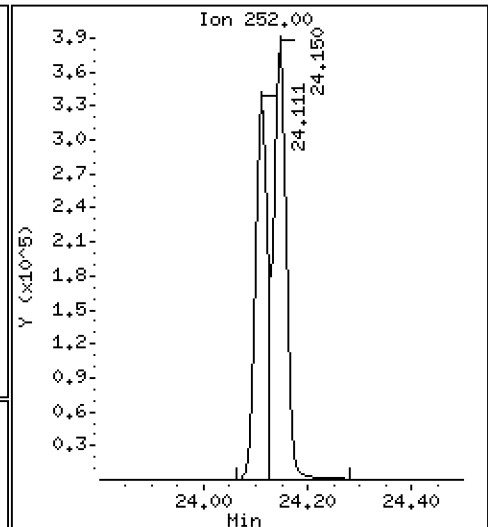
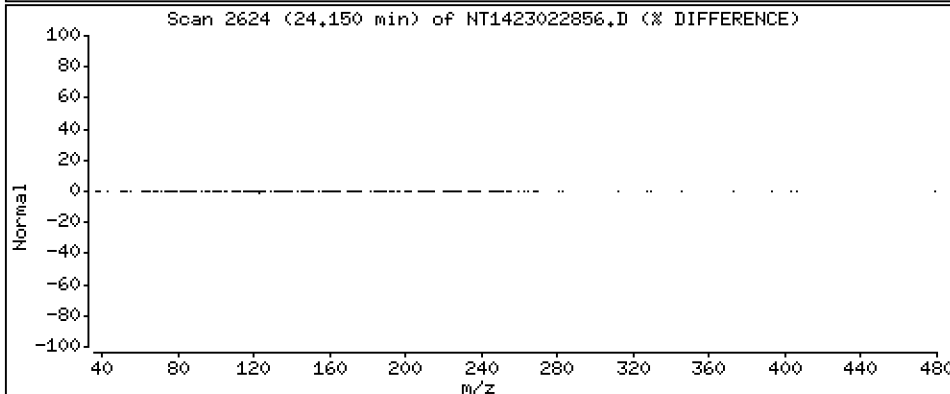
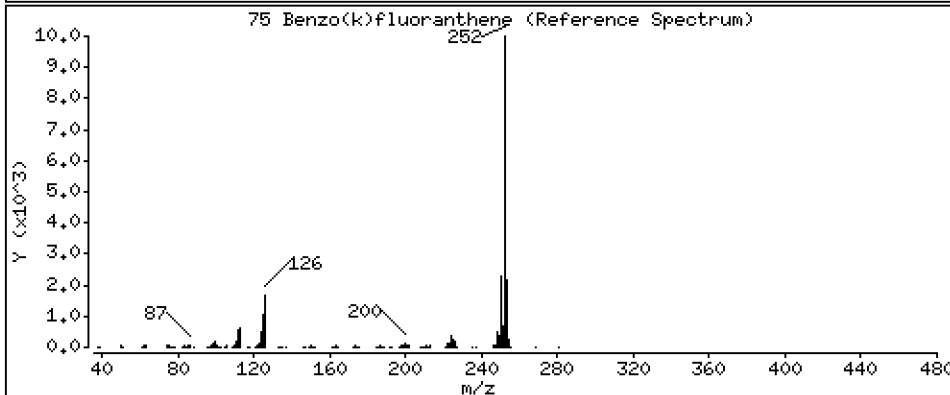
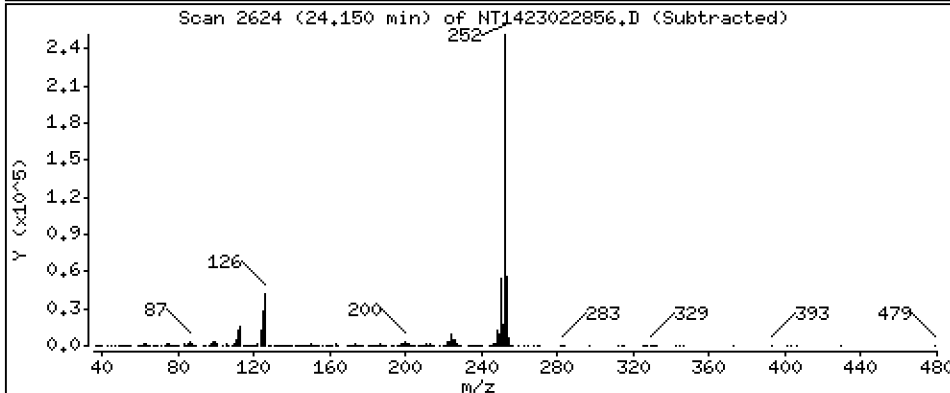
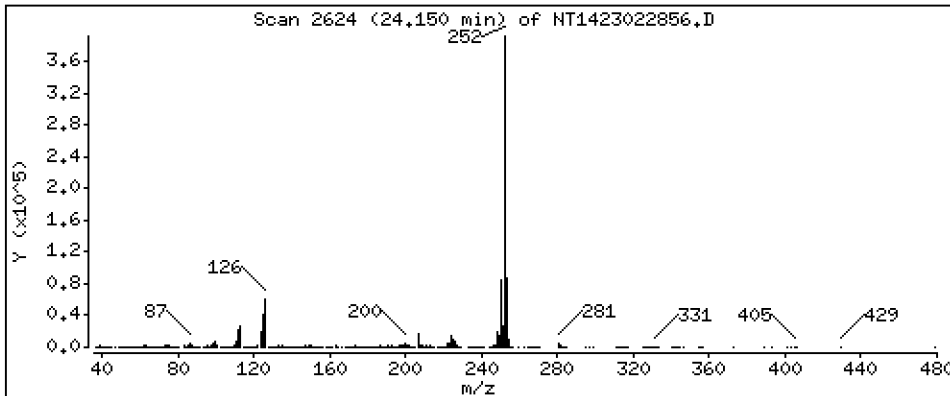
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 6,596 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

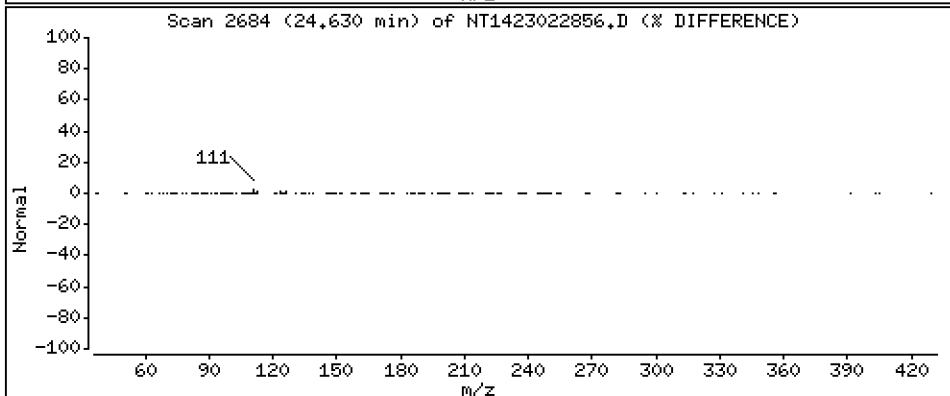
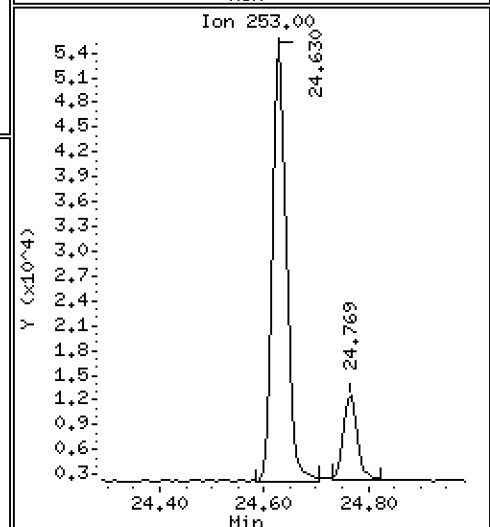
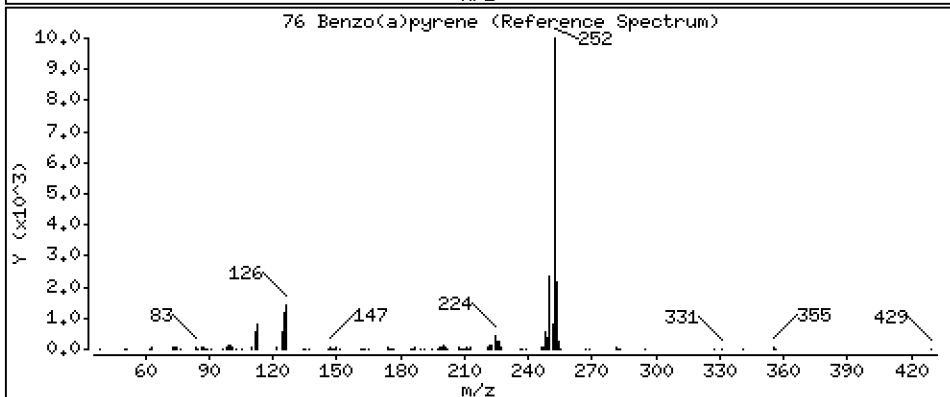
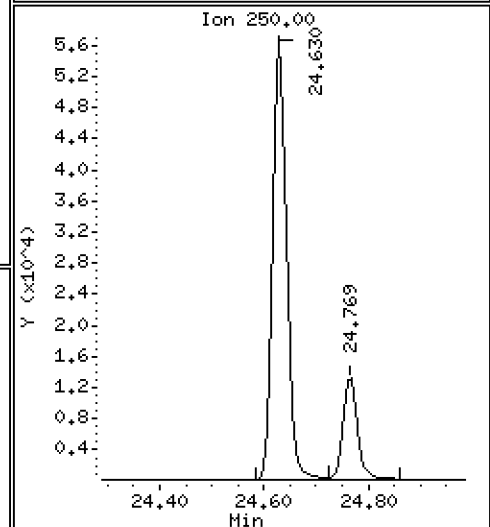
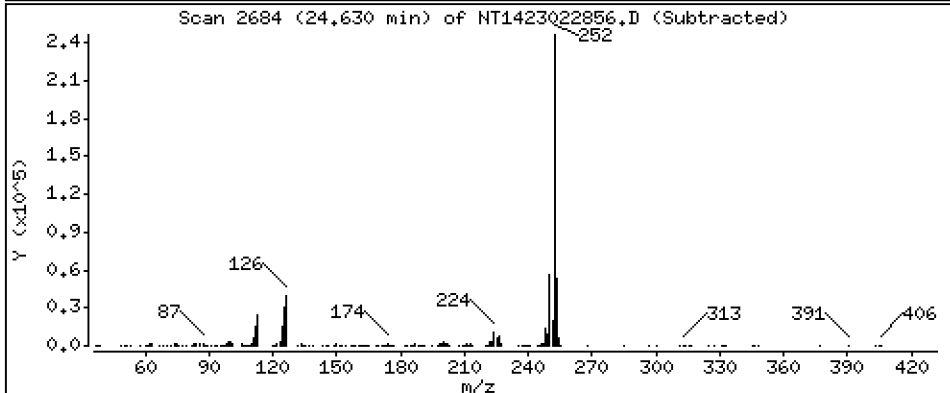
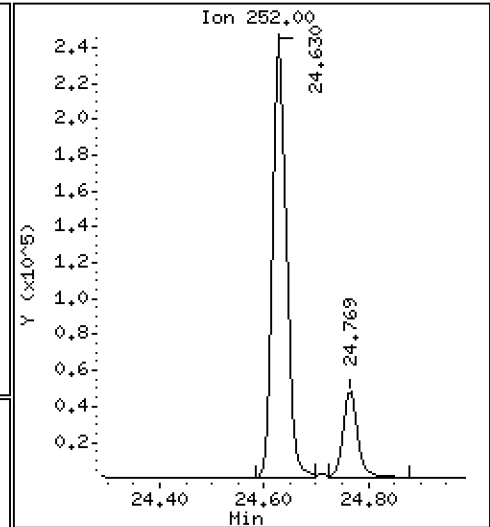
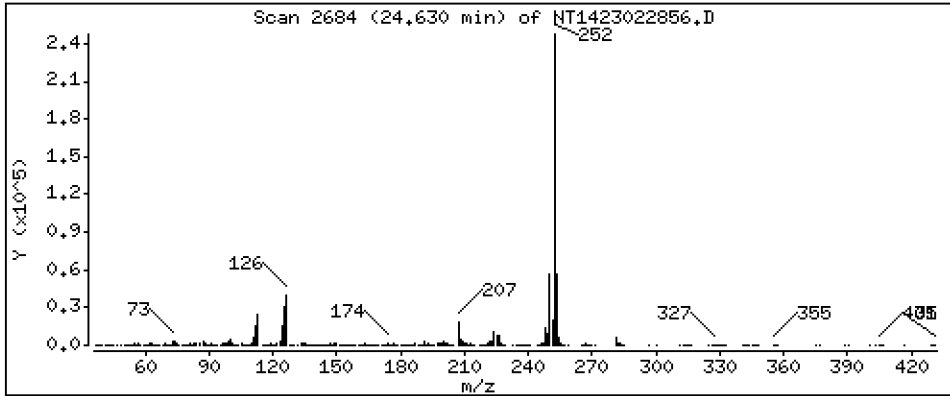
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 5,448 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

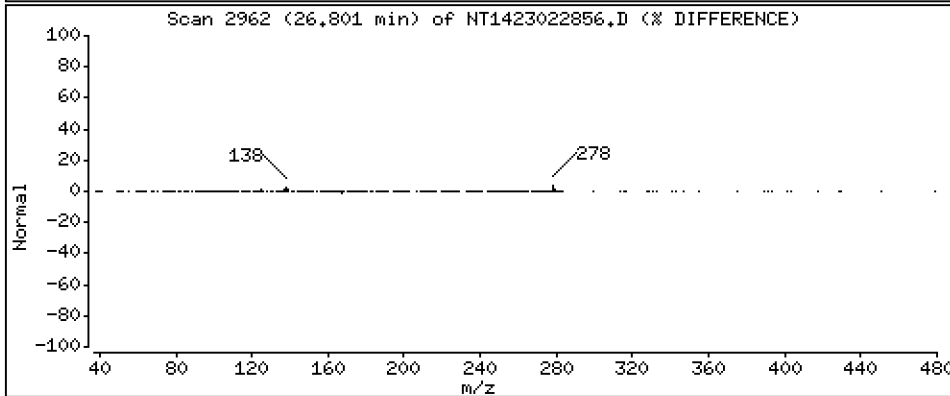
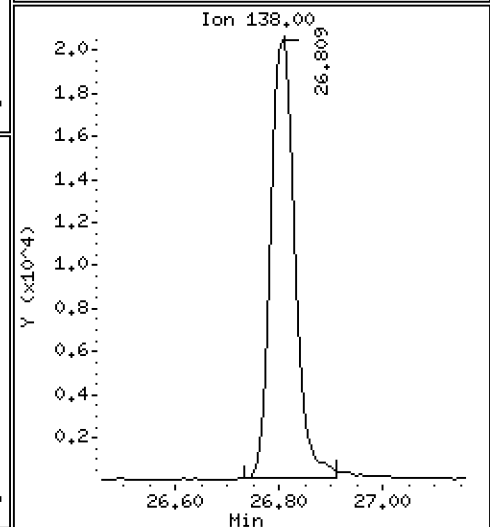
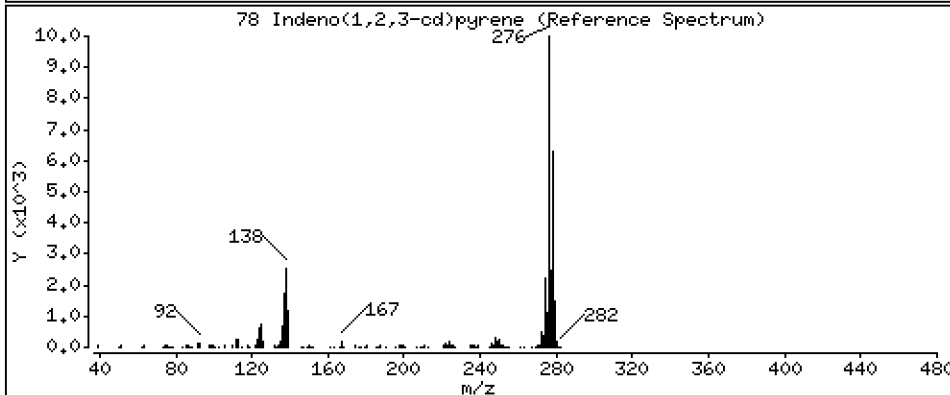
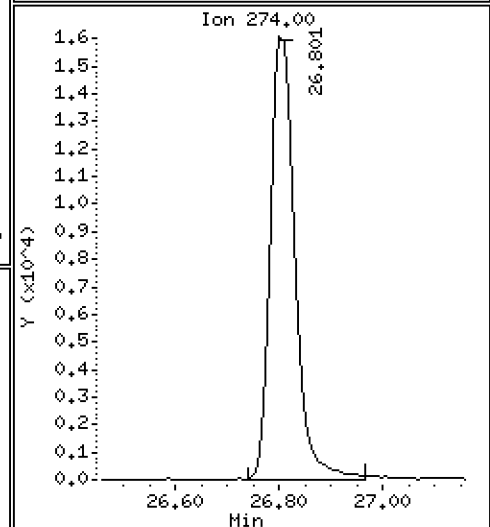
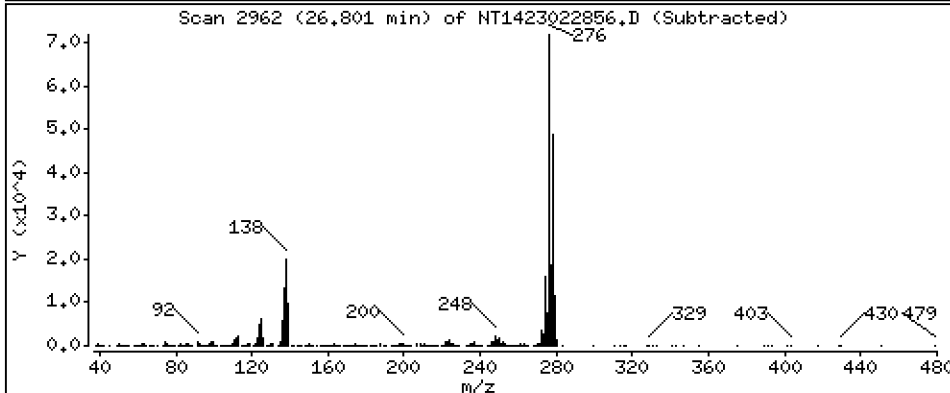
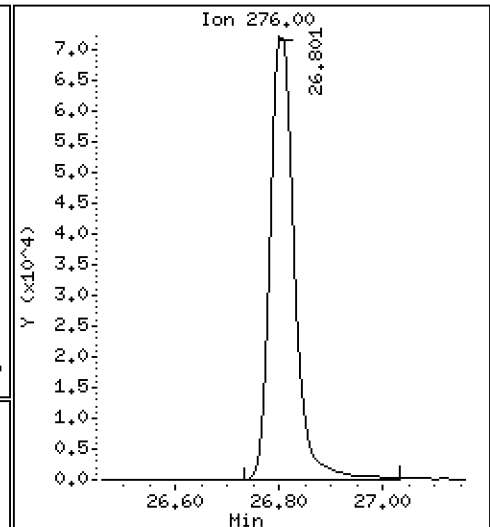
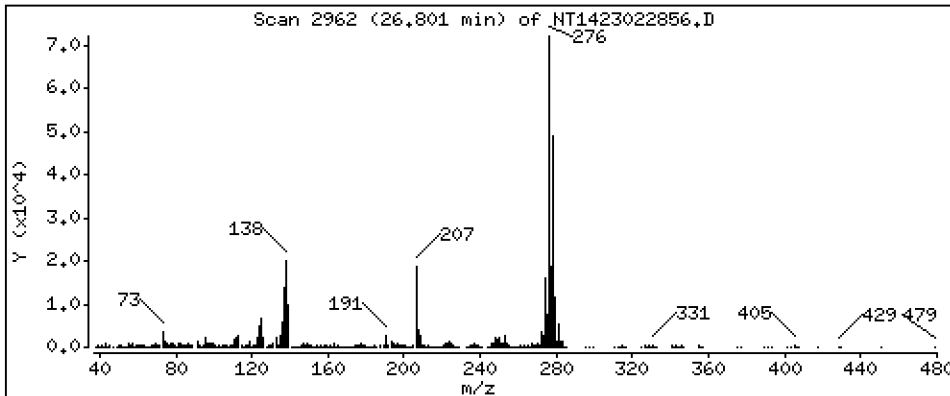
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 2,258 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

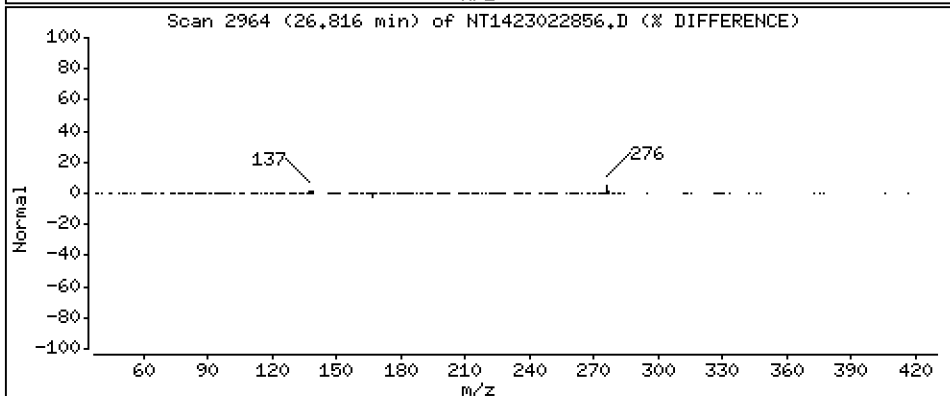
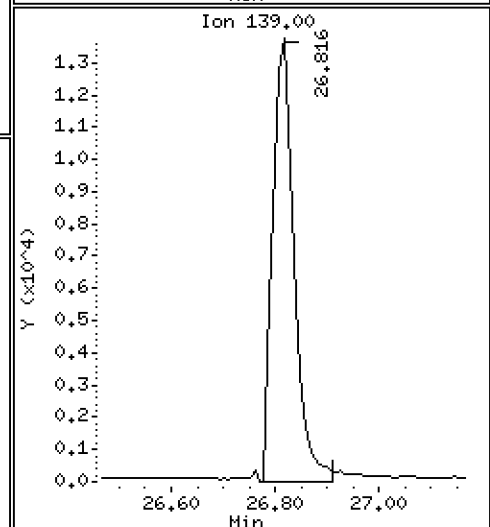
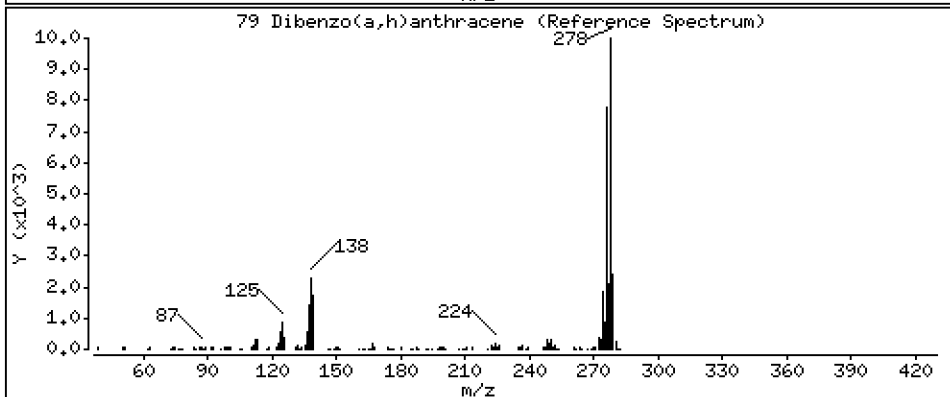
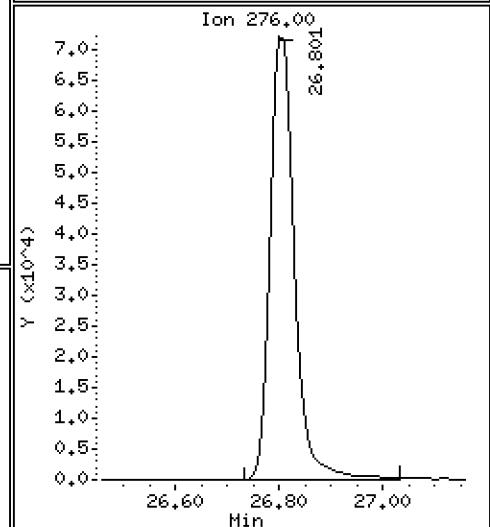
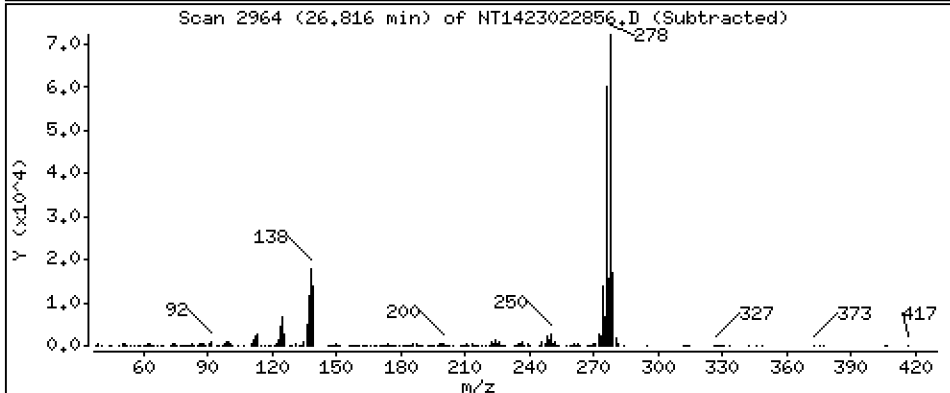
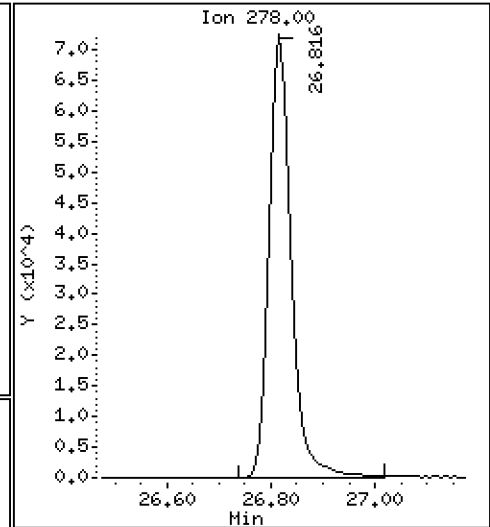
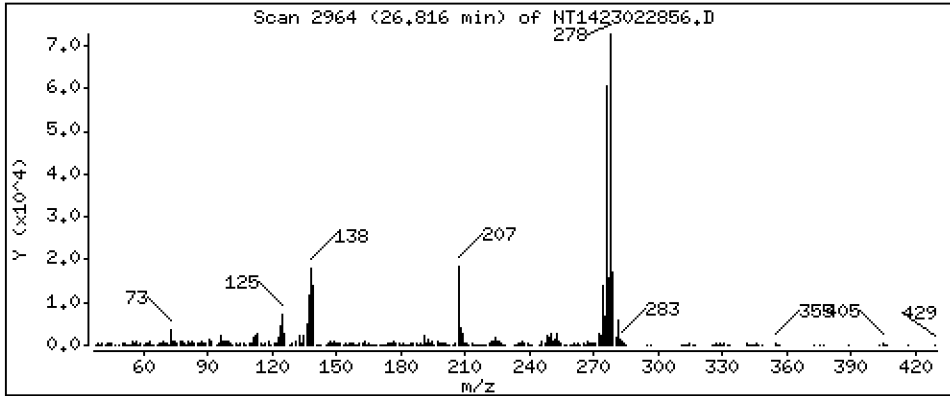
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 2,440 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

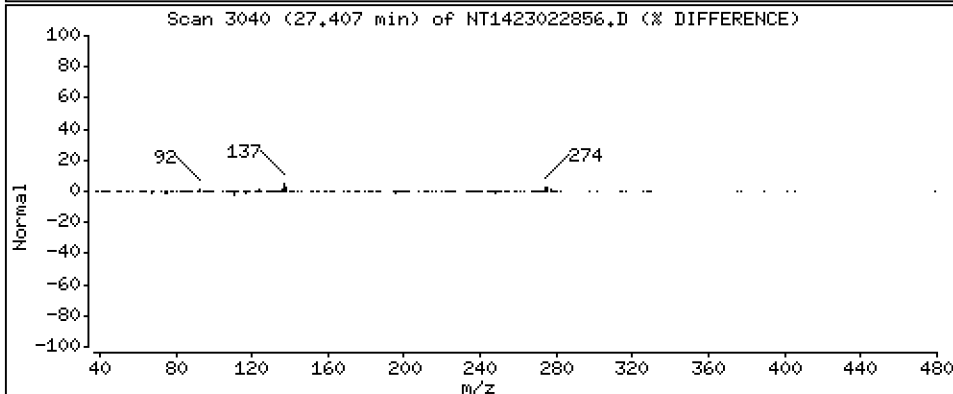
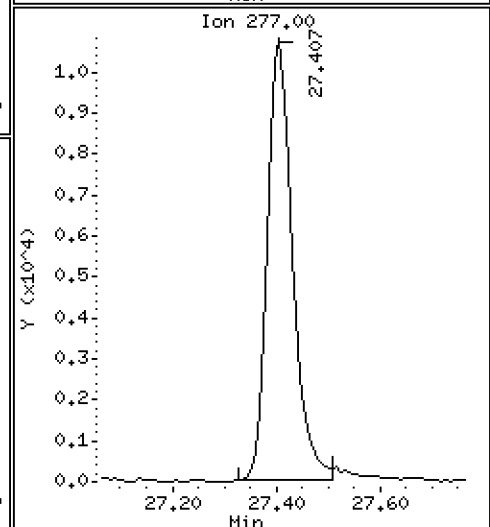
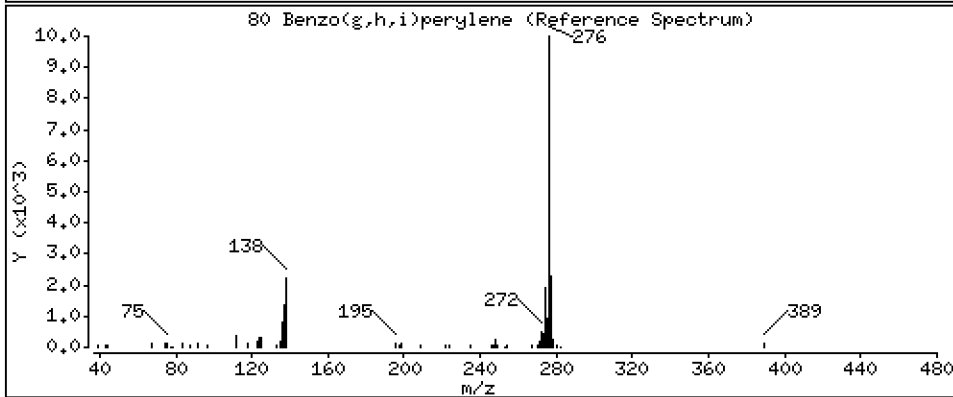
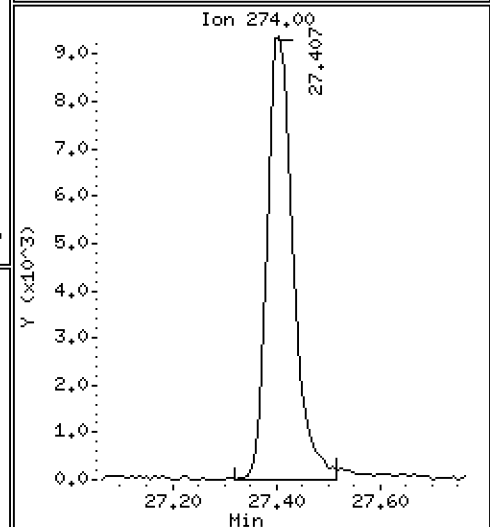
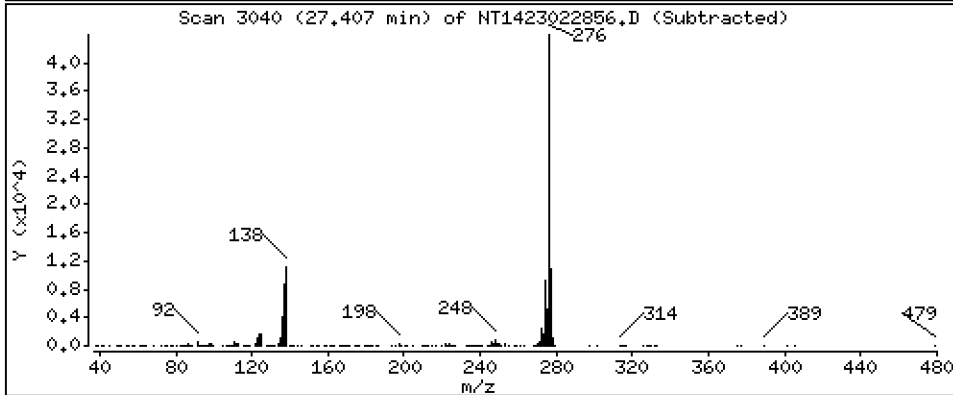
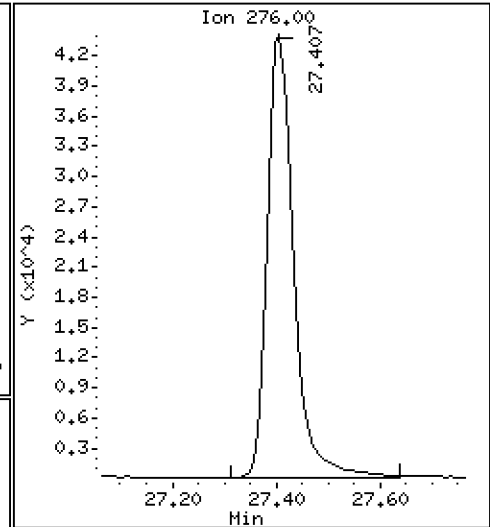
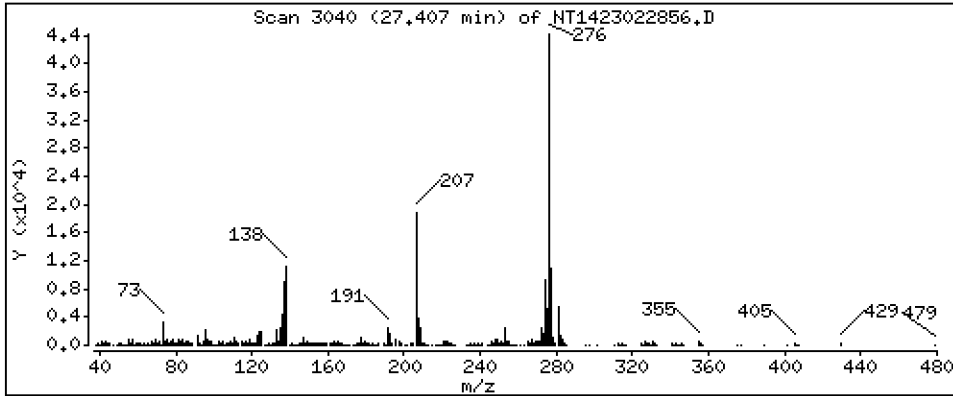
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 1,737 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

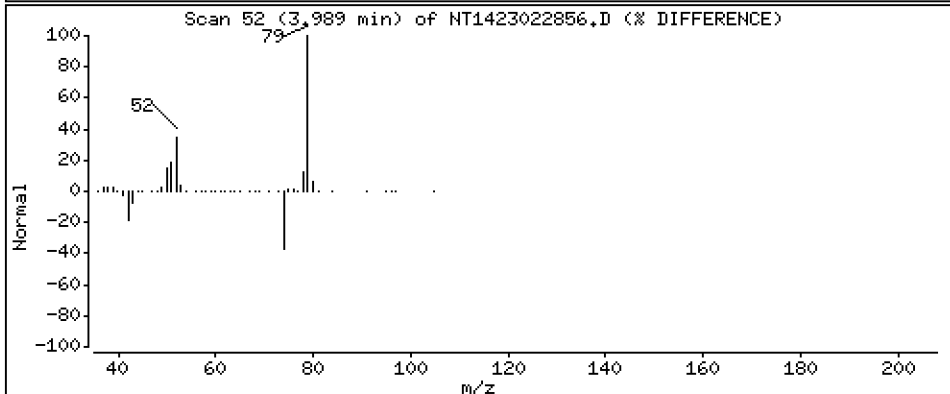
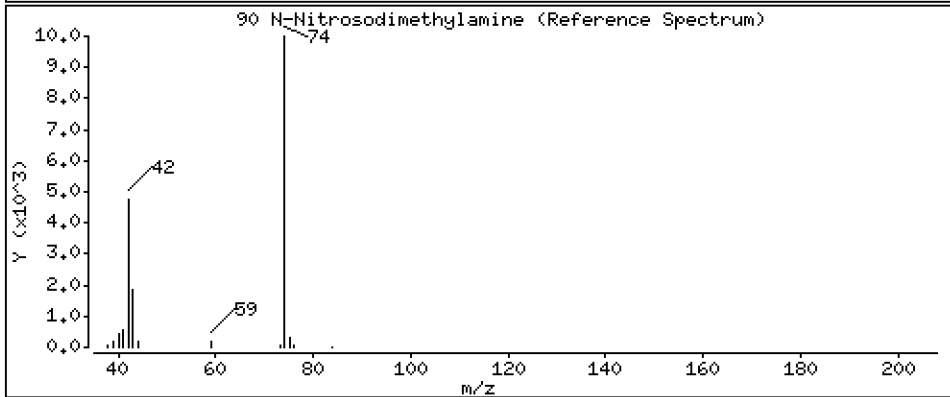
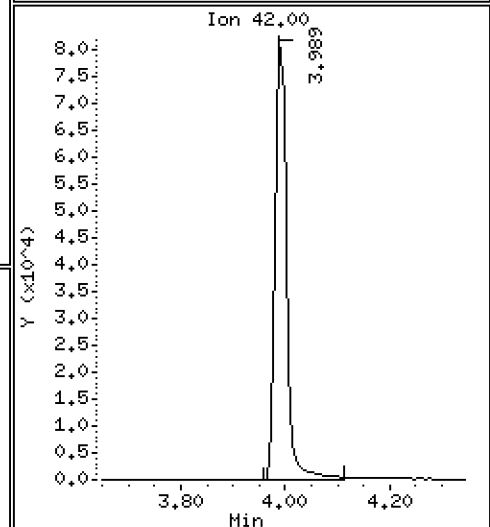
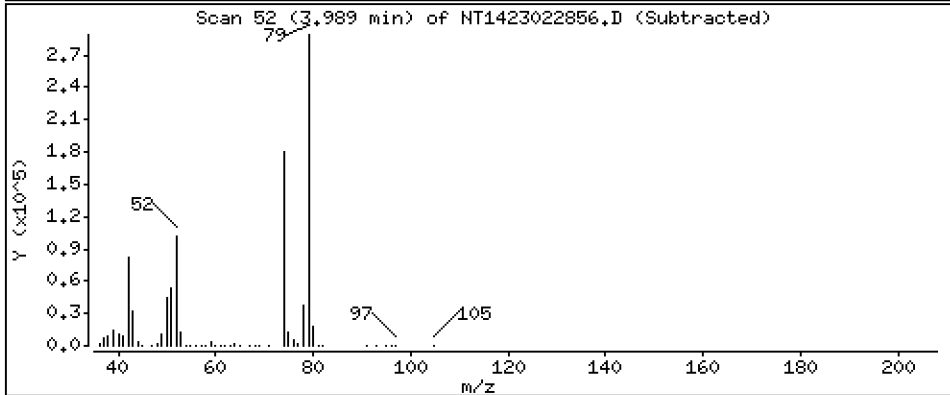
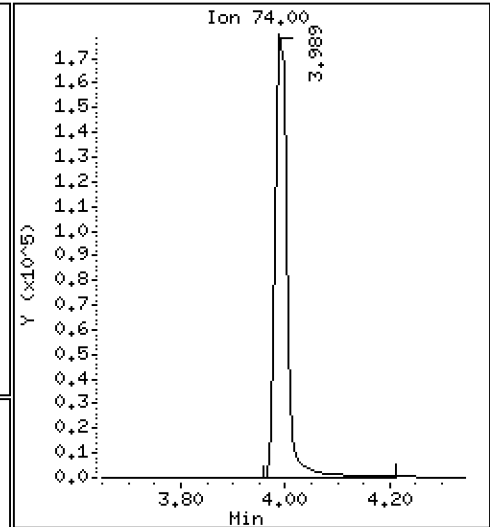
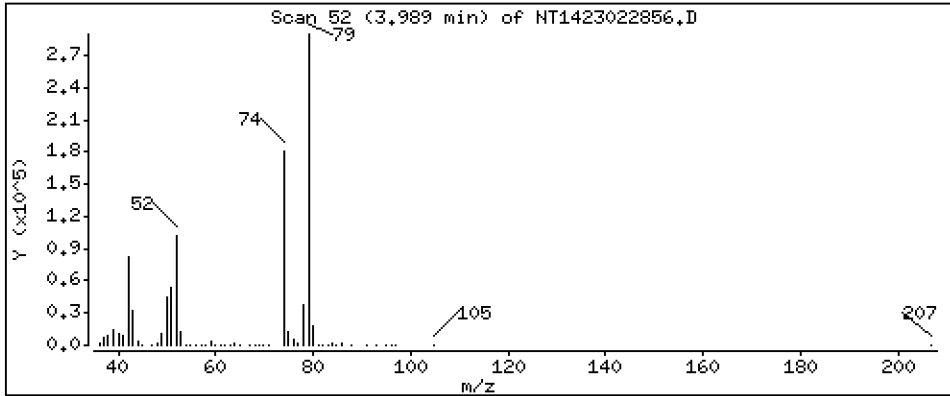
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

90 N-Nitrosodimethylamine

Concentration: 11,50 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

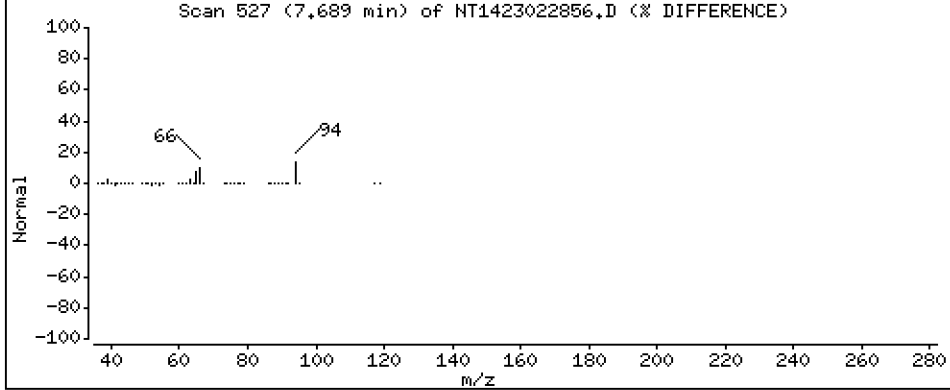
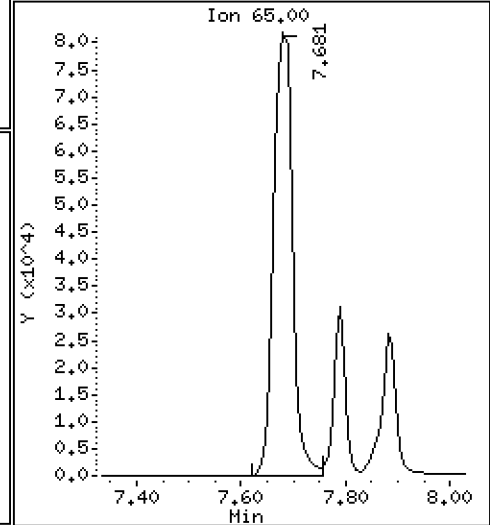
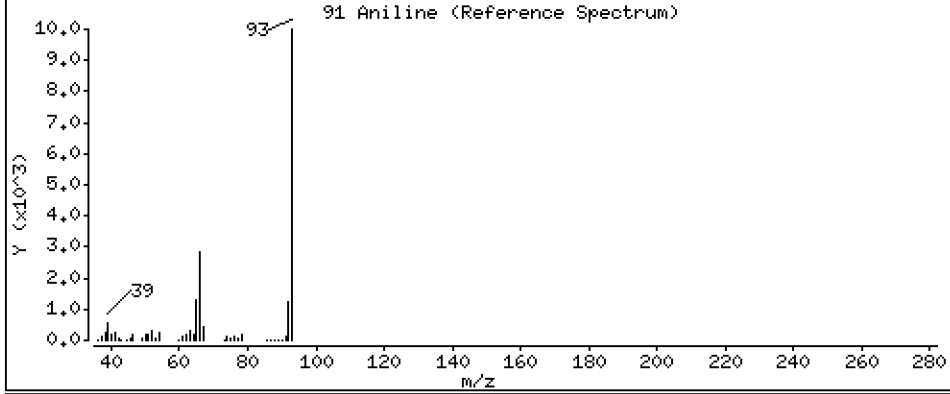
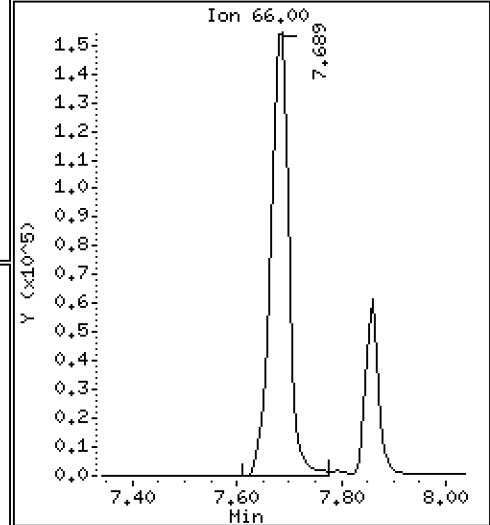
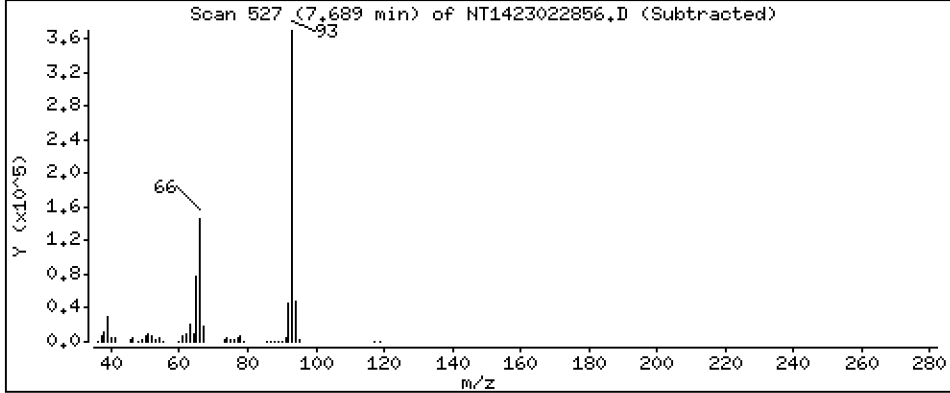
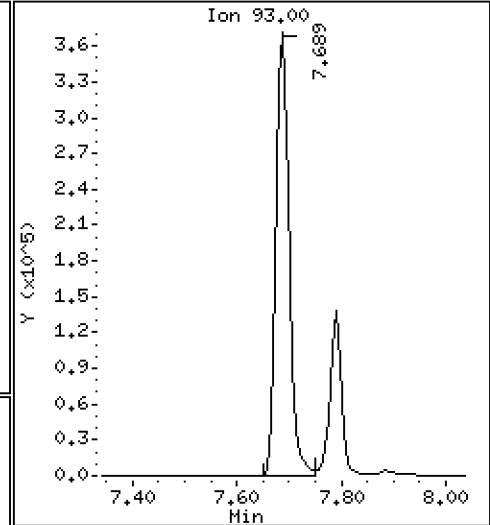
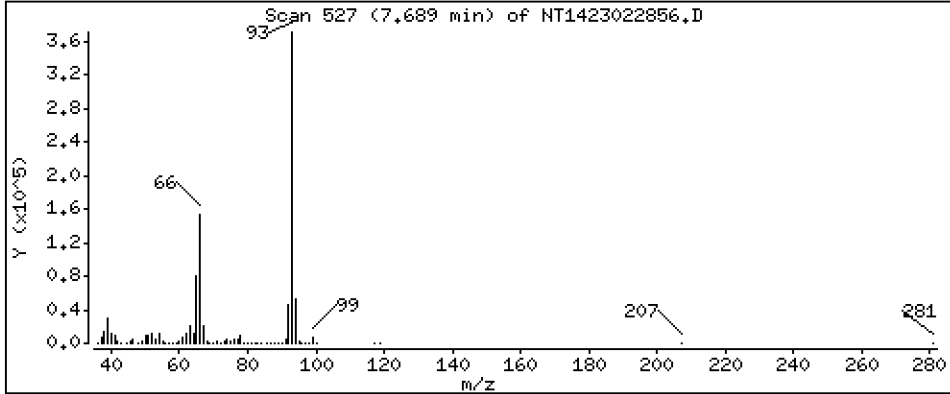
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

91 Aniline

Concentration: 11.05 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

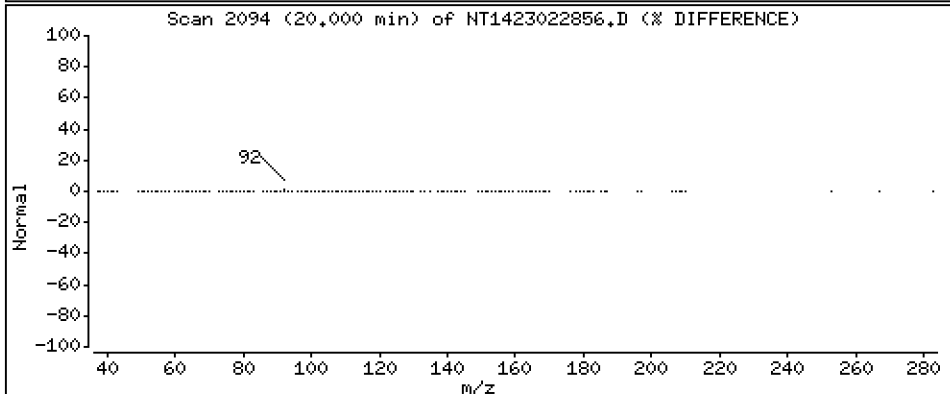
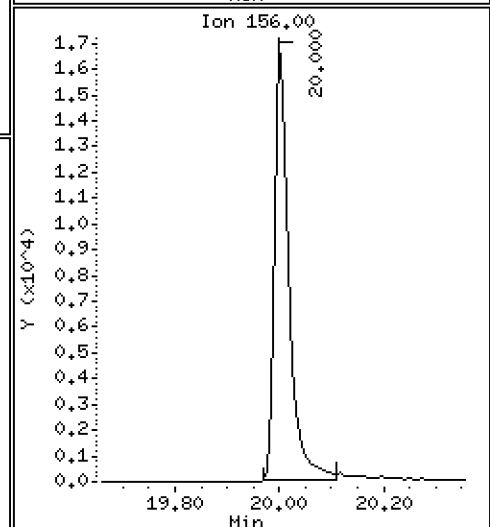
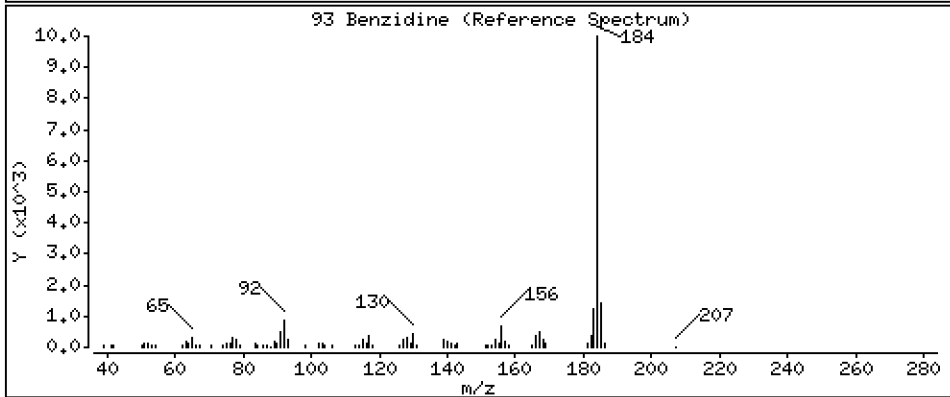
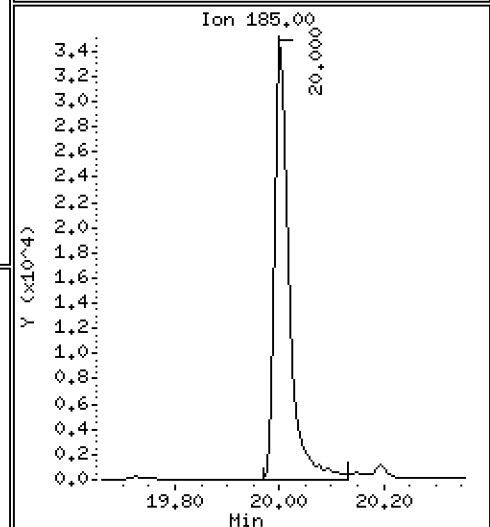
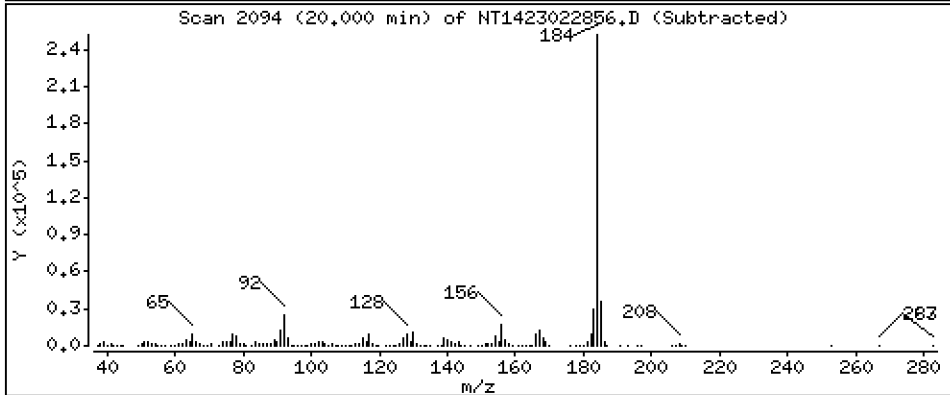
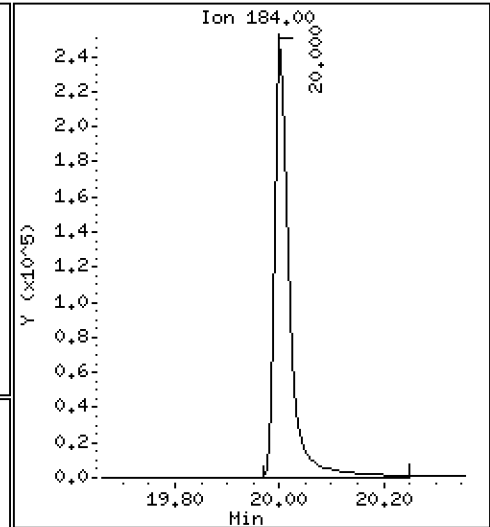
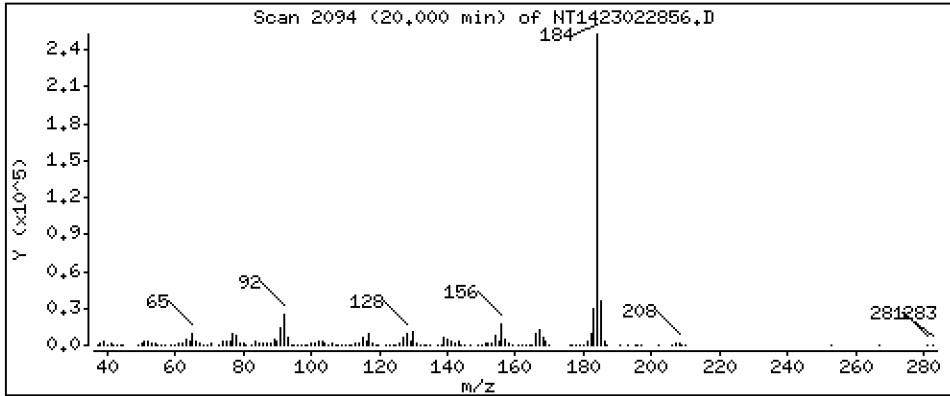
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

93 Benzidine

Concentration: 7,404 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

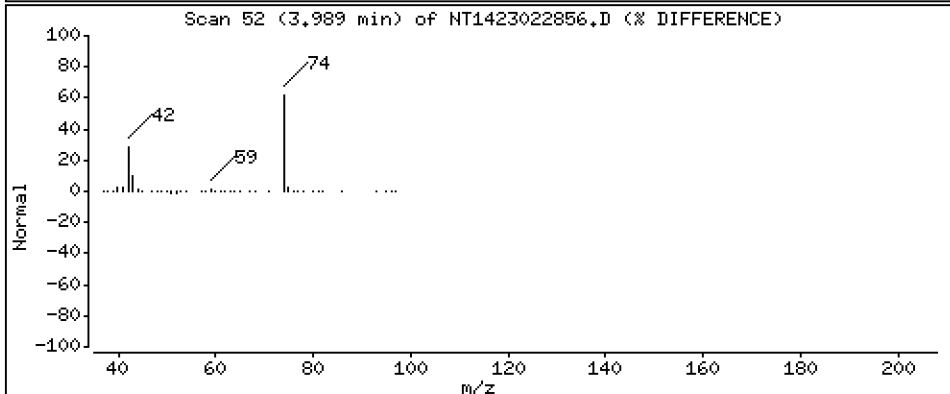
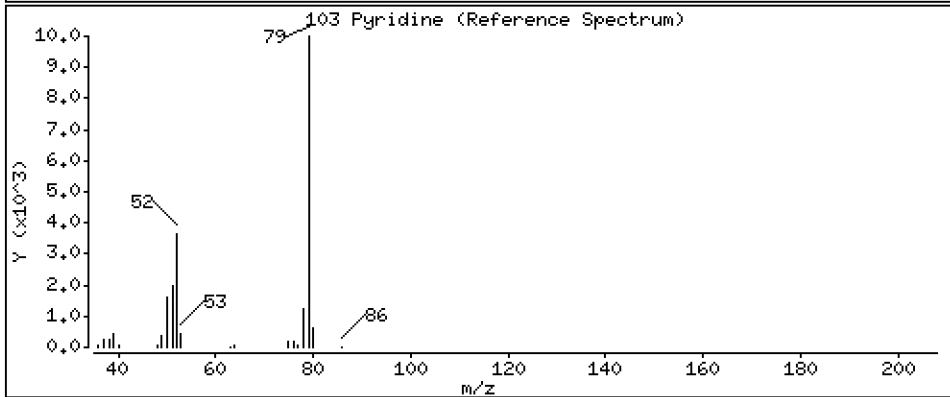
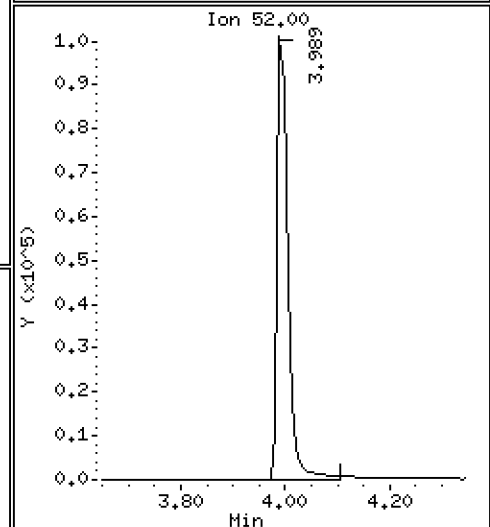
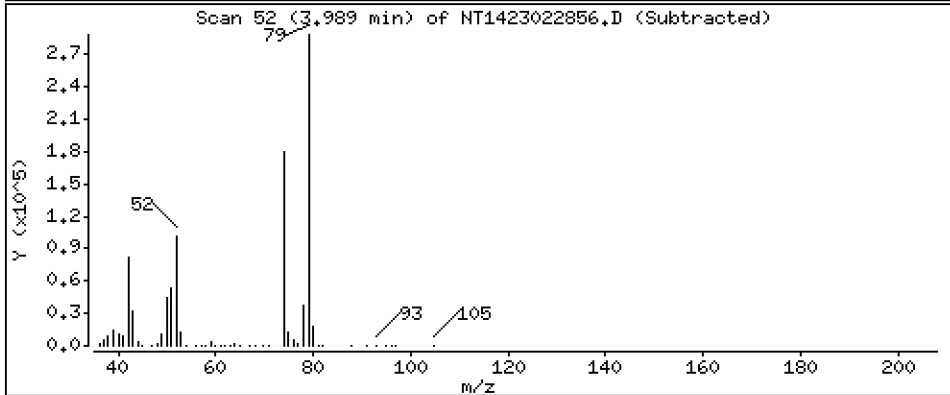
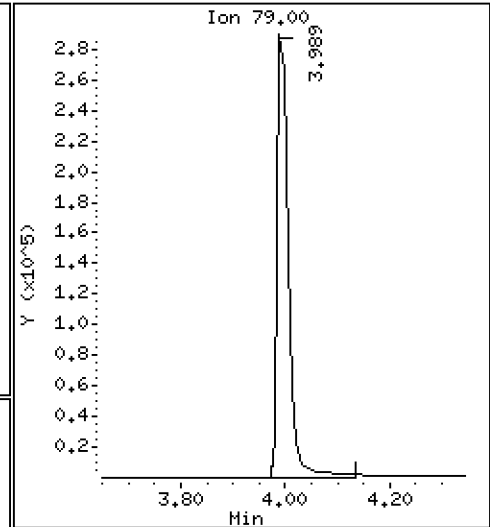
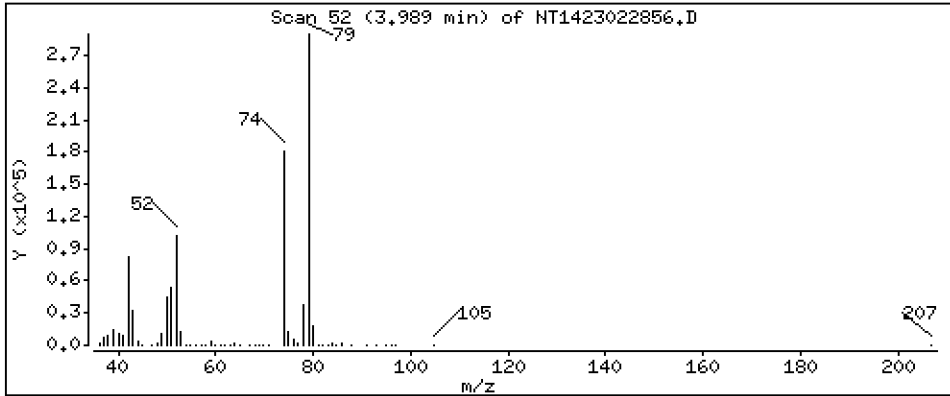
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

103 Pyridine

Concentration: 5,604 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

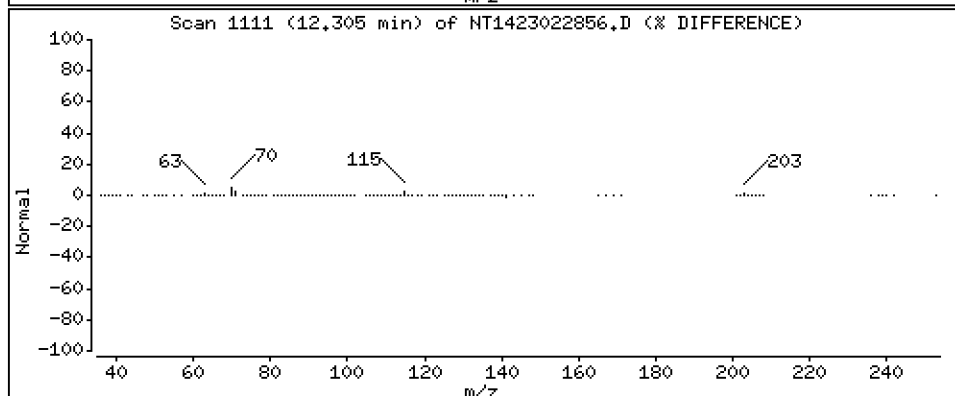
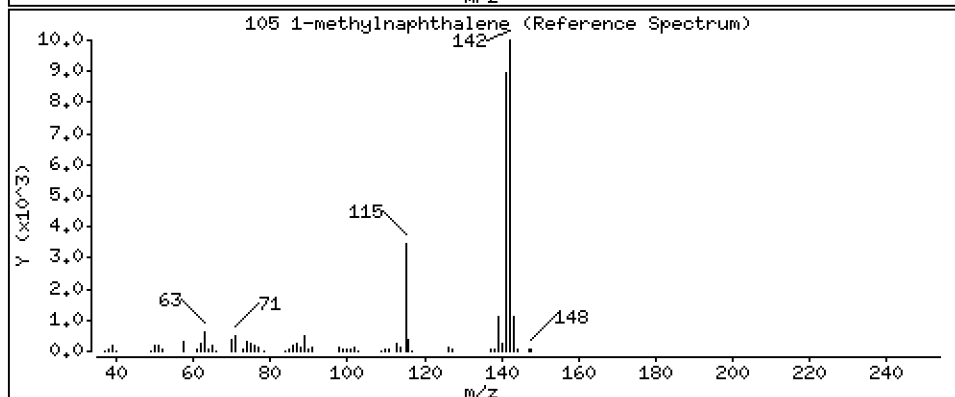
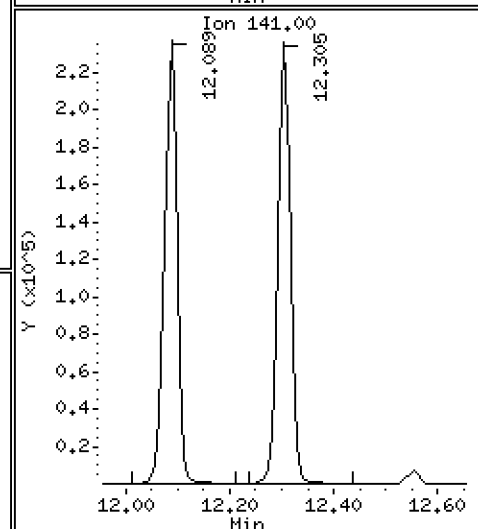
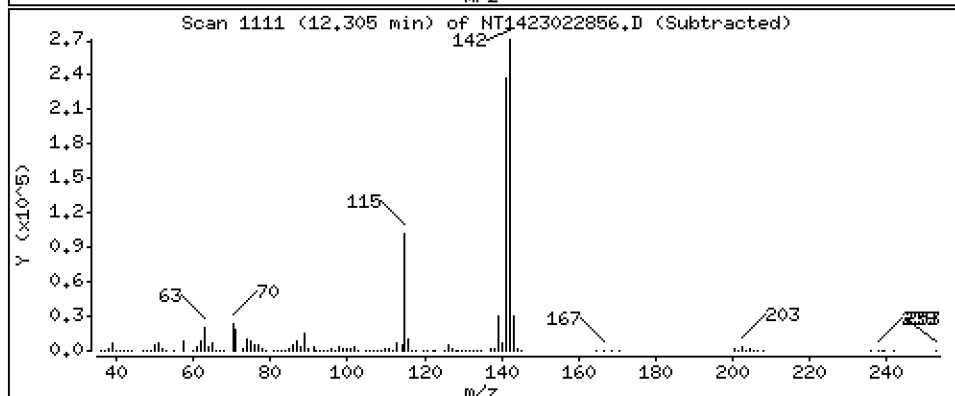
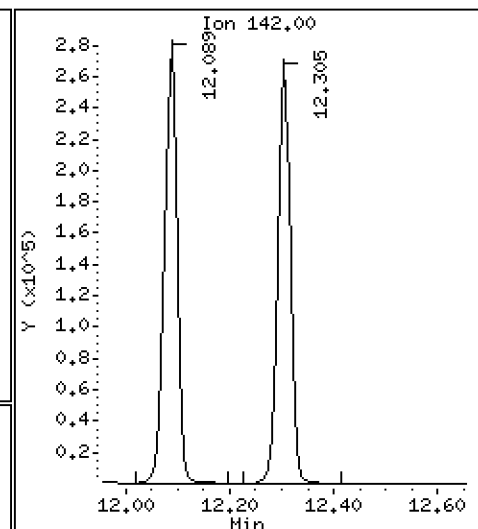
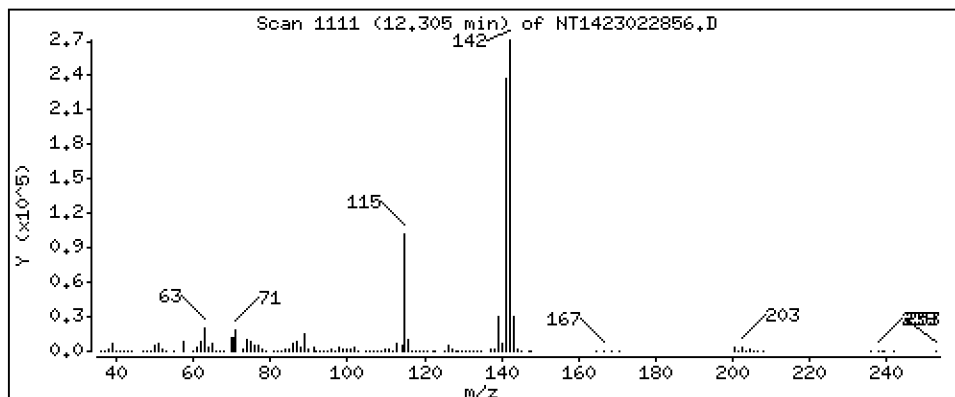
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 5,040 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

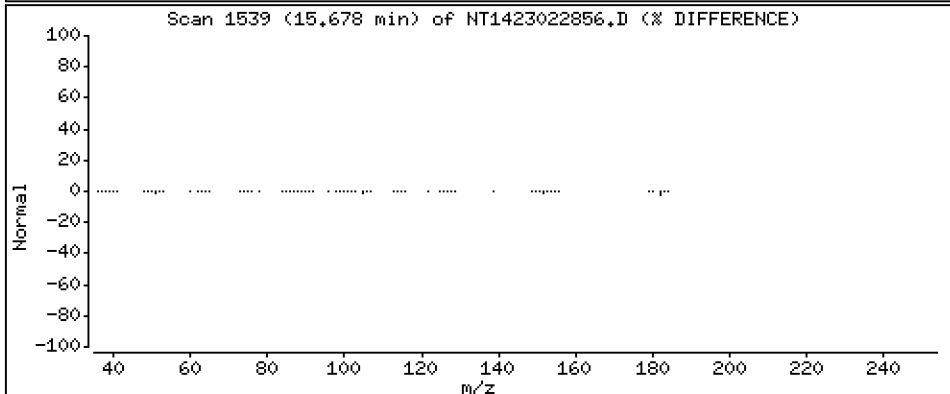
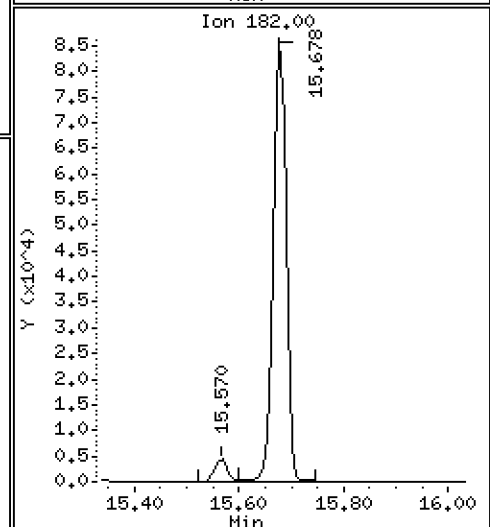
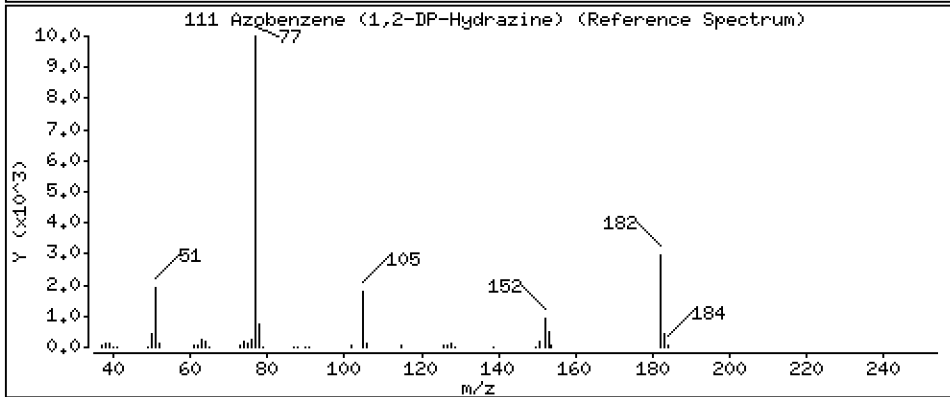
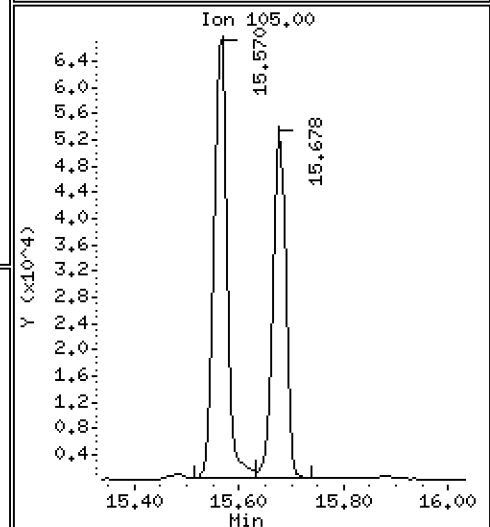
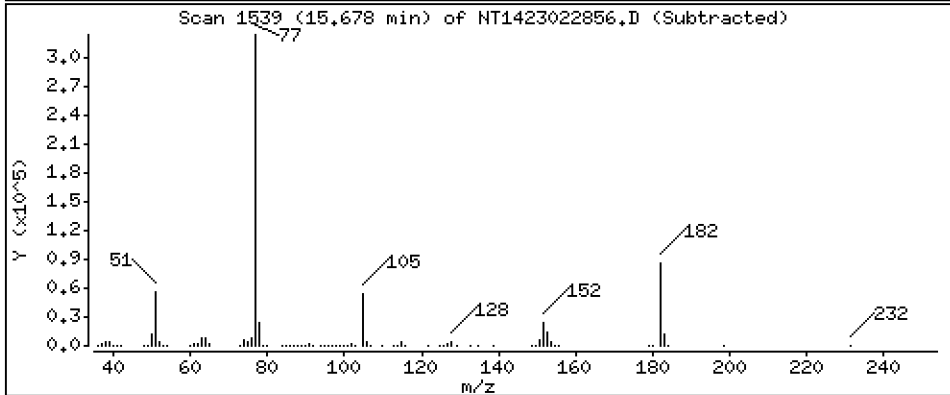
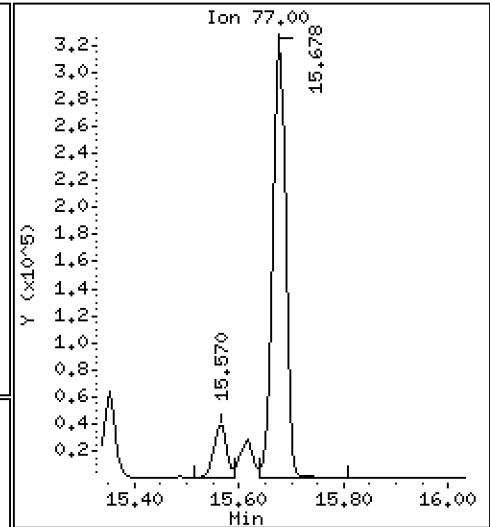
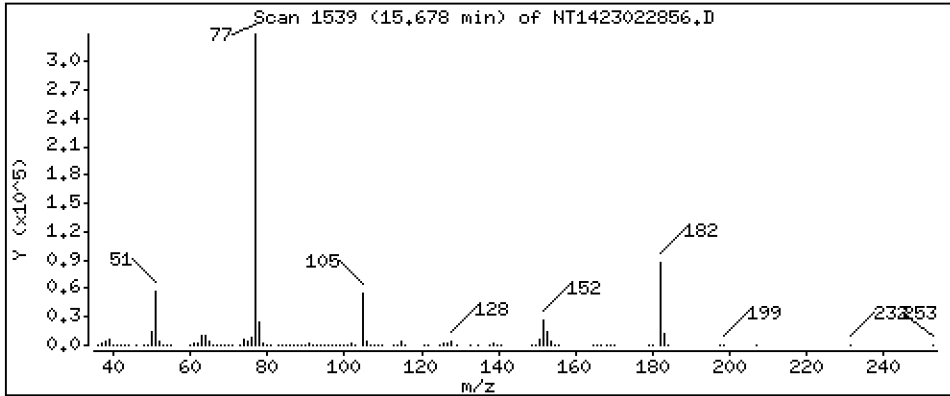
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 5,723 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

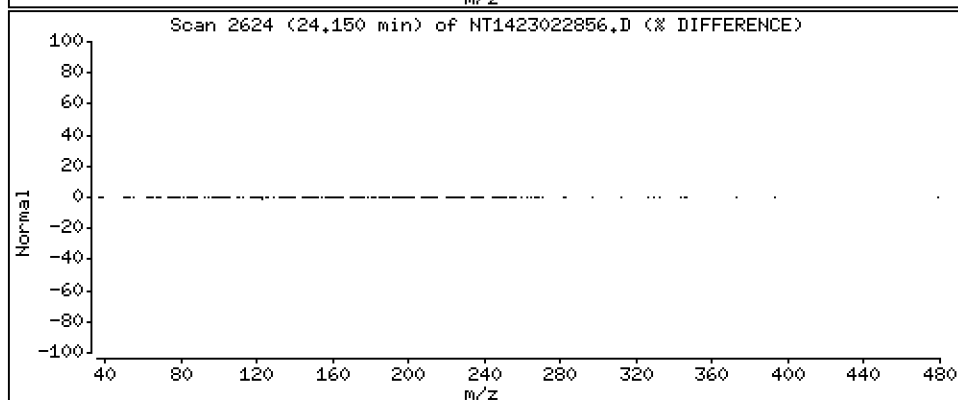
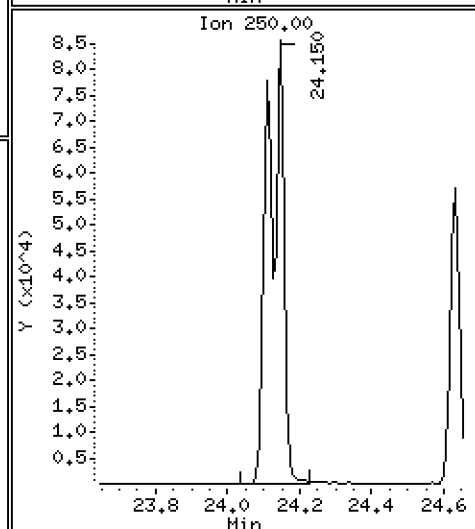
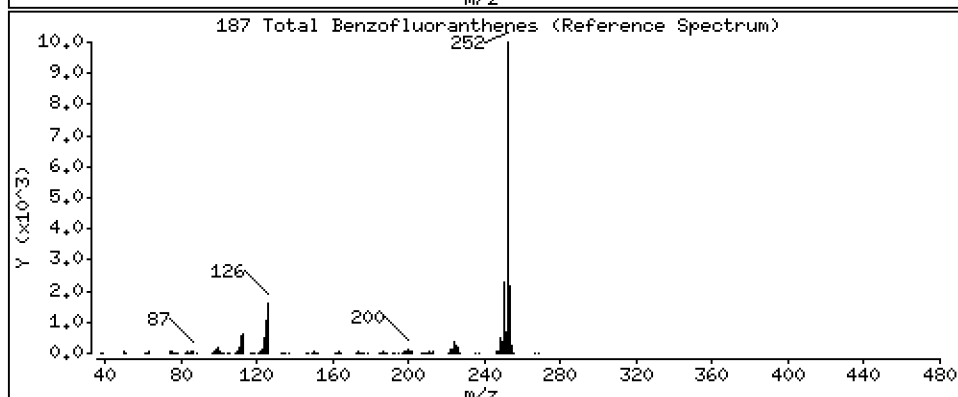
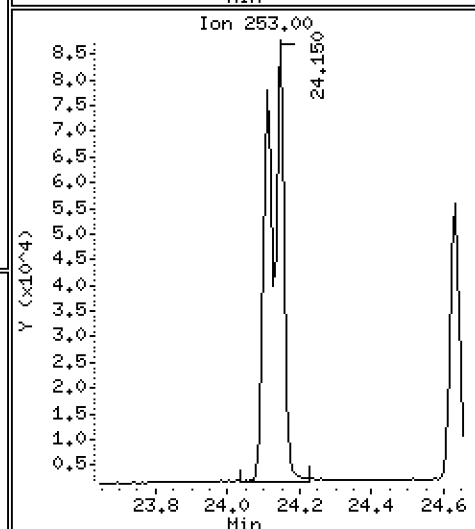
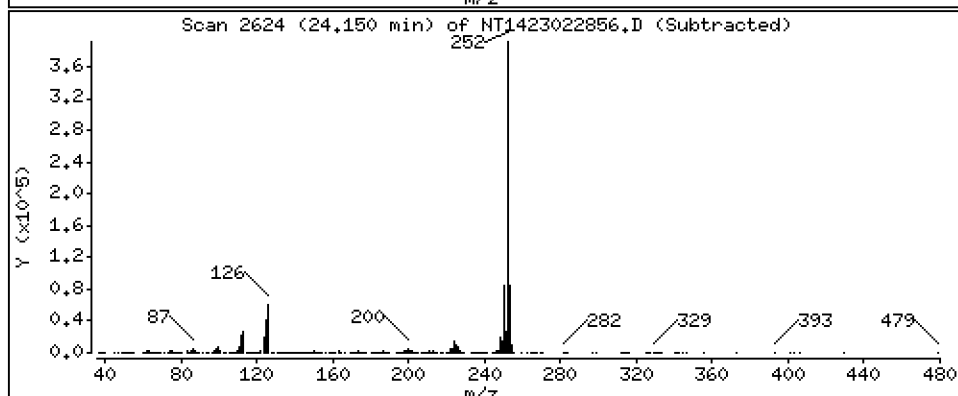
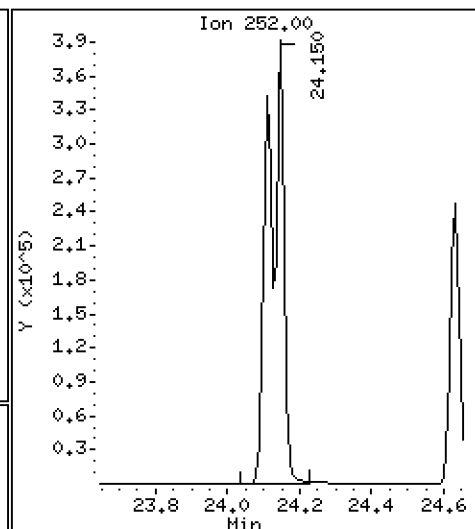
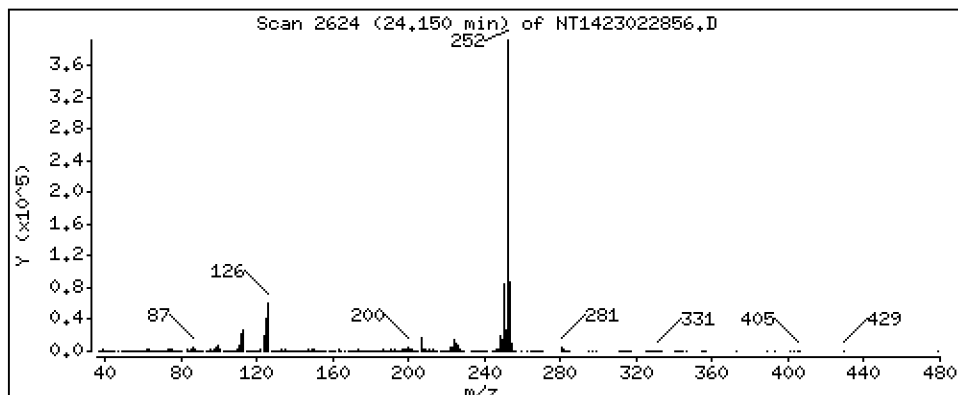
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 12,57 ug/mL



Date : 02-MAR-2023 10:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-CCV7

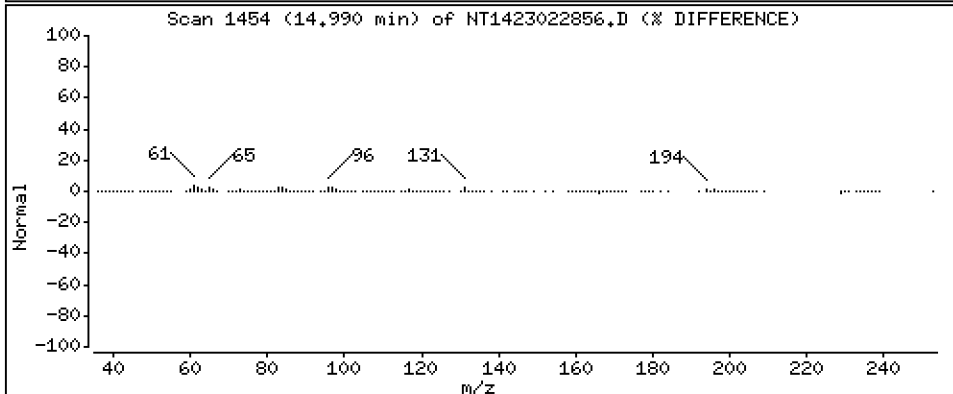
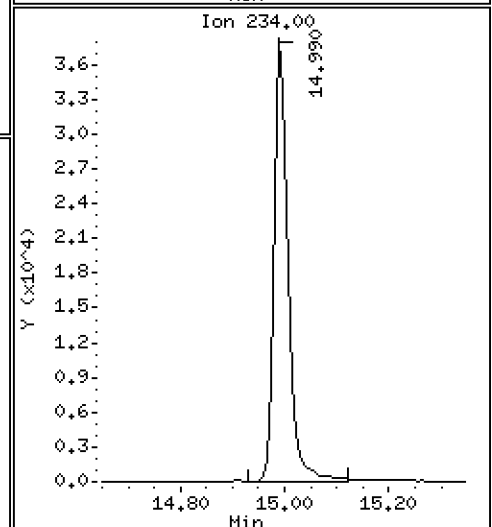
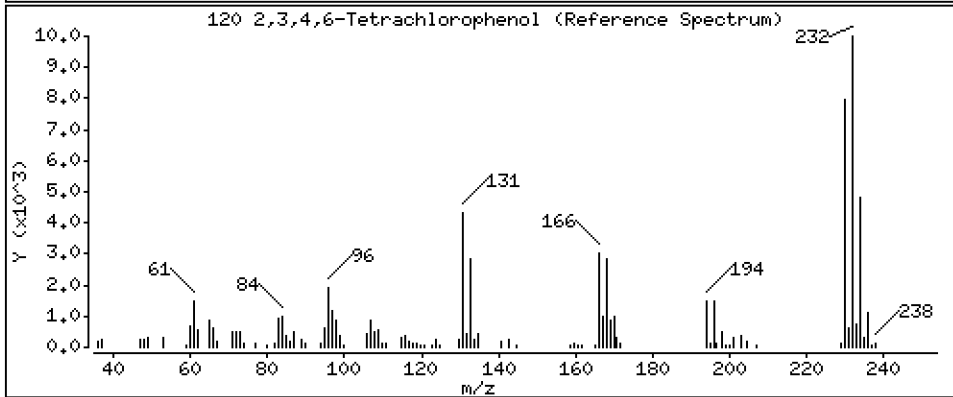
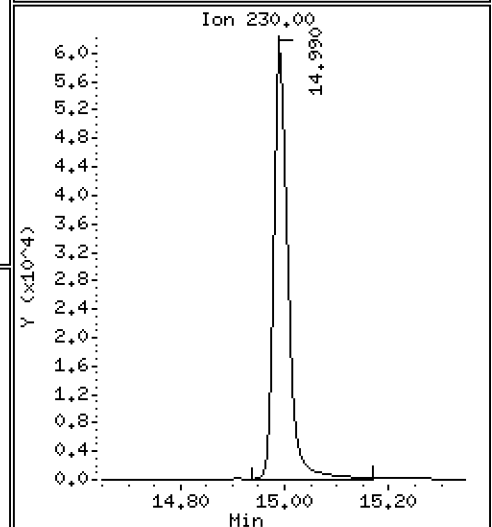
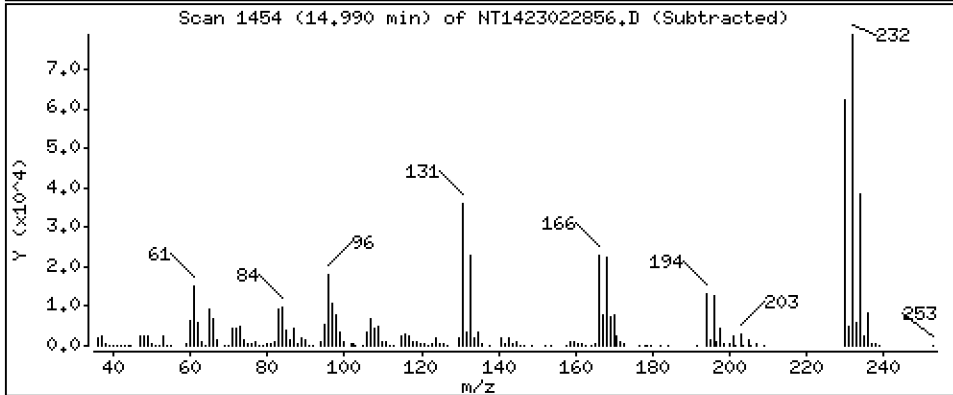
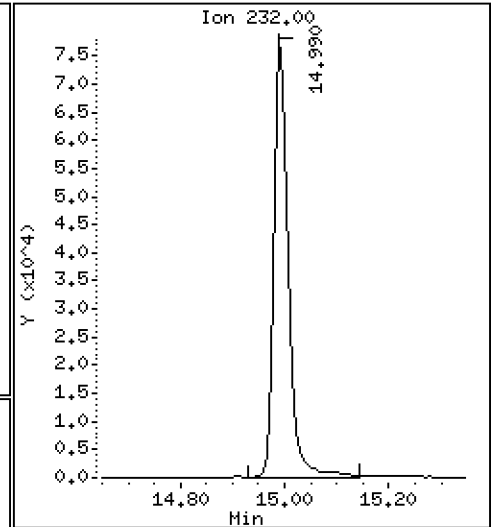
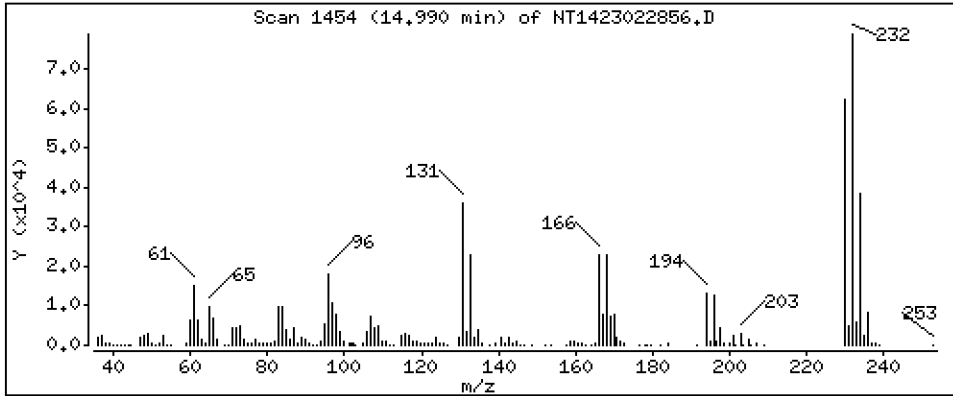
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

120 2,3,4,6-Tetrachlorophenol

Concentration: 4,912 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230228.b\NT1423022856.D
 Lab Smp Id: SLB0374-CCV7
 Inj Date : 02-MAR-2023 10:41 MS Autotune Date: 17-MAY-2011 01:22
 Operator : JGR Inst ID: nt14.i
 Smp Info : SLB0374-CCV7
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt14.i\20230228.b\ABN.m
 Meth Date : 11-Mar-2023 13:20 van Quant Type: ISTD
 Cal Date : 28-FEB-2023 15:16 Cal File: NT1423022808.D
 Als bottle: 4
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: ICAL.sub
 Target Version: 4.14
 Processing Host: VANS-201906

| Compounds | QUANT | SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|---------------------------------|-------|-----|--------|--------|---------|----------|----------------|-----------|
| | | | | | | | ON-COLUMN | FINAL |
| | MASS | | | | | | (ug/mL) | (ug/mL) |
| \$ 1 2-Fluorophenol | 112 | | 6.058 | 6.066 | (0.738) | 311849 | 9.18658 | 9.187 |
| \$ 2 Phenol-d5 | 99 | | 7.650 | 7.650 | (0.932) | 433984 | 9.00454 | 9.005 |
| 3 Phenol | 94 | | 7.665 | 7.673 | (0.934) | 324324 | 5.63989 | 5.640 |
| \$ 5 2-Chlorophenol-d4 | 132 | | 7.859 | 7.858 | (0.958) | 323332 | 7.88974 | 7.890 |
| 4 Bis(2-Chloroethyl)ether | 93 | | 7.789 | 7.789 | (0.949) | 206679 | 5.29064 | 5.291 |
| 6 2-Chlorophenol | 128 | | 7.889 | 7.889 | (0.961) | 235515 | 5.56014 | 5.560 |
| 7 1,3-Dichlorobenzene | 146 | | 8.137 | 8.137 | (0.991) | 232671 | 4.98437 | 4.984 |
| * 8 1,4-Dichlorobenzene-d4 | 152 | | 8.207 | 8.207 | (1.000) | 125192 | 4.00000 | |
| 9 1,4-Dichlorobenzene | 146 | | 8.230 | 8.238 | (1.003) | 226307 | 4.90531 | 4.905 |
| \$ 10 1,2-Dichlorobenzene-d4 | 152 | | 8.556 | 8.556 | (1.043) | 151918 | 4.92405 | 4.924 |
| 12 1,2-Dichlorobenzene | 146 | | 8.579 | 8.579 | (1.045) | 220650 | 4.98778 | 4.988 |
| 11 Benzyl alcohol | 108 | | 8.517 | 8.517 | (1.038) | 135164 | 5.30574 | 5.306 |
| 14 2,2'-oxybis(1-Chloropropane) | 121 | | 8.797 | 8.797 | (1.072) | 62298 | 5.22181 | 5.222 (M) |
| 13 2-Methylphenol | 108 | | 8.758 | 8.758 | (1.067) | 213333 | 5.87232 | 5.872 |
| 17 Hexachloroethane | 117 | | 9.154 | 9.162 | (1.115) | 85124 | 4.91315 | 4.913 |
| 16 N-Nitroso-di-n-propylamine | 70 | | 9.053 | 9.061 | (1.103) | 171342 | 6.19449 | 6.194 |
| 15 4-Methylphenol | 108 | | 9.030 | 9.037 | (1.100) | 217087 | 5.24228 | 5.242 |
| \$ 18 Nitrobenzene-d5 | 82 | | 9.294 | 9.293 | (0.872) | 268690 | 5.98539 | 5.985 |
| 19 Nitrobenzene | 77 | | 9.332 | 9.332 | (0.876) | 255427 | 5.92117 | 5.921 |
| 20 Isophorone | 82 | | 9.782 | 9.782 | (0.918) | 366494 | 5.53791 | 5.538 |
| 21 2-Nitrophenol | 139 | | 9.953 | 9.953 | (0.934) | 119357 | 5.30856 | 5.309 |
| 22 2,4-Dimethylphenol | 107 | | 10.054 | 10.054 | (0.943) | 423899 | 10.7790 | 10.78 |
| 23 Bis(2-Chloroethoxy)methane | 93 | | 10.232 | 10.232 | (0.960) | 232677 | 5.36500 | 5.365 |
| 24 Benzoic acid | 105 | | 10.372 | 10.372 | (0.973) | 406506 | 26.0837 | 26.08 (M) |
| 25 2,4-Dichlorophenol | 162 | | 10.418 | 10.418 | (0.978) | 372571 | 9.79809 | 9.798 |
| 26 1,2,4-Trichlorobenzene | 180 | | 10.580 | 10.580 | (0.993) | 207032 | 4.65815 | 4.658 |
| * 27 Naphthalene-d8 | 136 | | 10.657 | 10.665 | (1.000) | 458907 | 4.00000 | |
| 28 Naphthalene | 128 | | 10.696 | 10.704 | (1.004) | 616644 | 5.03759 | 5.038 |
| 29 4-Chloroaniline | 127 | | 10.858 | 10.866 | (1.019) | 559513 | 10.6866 | 10.69 |
| 30 Hexachlorobutadiene | 225 | | 11.067 | 11.074 | (1.038) | 120616 | 4.44742 | 4.447 |
| 31 4-Chloro-3-methylphenol | 107 | | 11.856 | 11.856 | (1.112) | 396781 | 11.2089 | 11.21 |
| 32 2-Methylnaphthalene | 142 | | 12.088 | 12.088 | (1.134) | 461491 | 5.09103 | 5.091 |
| 33 Hexachlorocyclopentadiene | 237 | | 12.553 | 12.553 | (0.881) | 93402 | 3.26993 | 3.270 |

| Compounds | QUANT SIG | | | | | CONCENTRATIONS | |
|-----------------------------------|-----------|--------|--------|---------|----------|----------------------|------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | ON-COLUMN (ug/mL) | FINAL (ug/mL) |
| 34 2,4,6-Trichlorophenol | 196 | 12.731 | 12.731 | (0.894) | 280785 | 10.5848 | 10.58 |
| 35 2,4,5-Trichlorophenol | 196 | 12.808 | 12.808 | (0.899) | 318827 | 11.1161 | 11.12 |
| § 36 2-Fluorobiphenyl | 172 | 12.885 | 12.885 | (0.904) | 530369 | 5.01791 | 5.018 |
| 37 2-Chloronaphthalene | 162 | 13.071 | 13.071 | (0.917) | 428364 | 5.05572 | 5.056 |
| 38 2-Nitroaniline | 65 | 13.357 | 13.365 | (0.938) | 286025 | 12.9436 | 12.94 |
| 39 Dimethylphthalate | 163 | 13.806 | 13.806 | (0.969) | 453940 | 5.31444 | 5.314 |
| 40 Acenaphthylene | 152 | 13.930 | 13.930 | (0.978) | 661440 | 5.32018 | 5.320 |
| 41 2,6-Dinitrotoluene | 165 | 13.930 | 13.938 | (0.978) | 213300 | 10.6564 | 10.66 |
| * 42 Acenaphthene-d10 | 164 | 14.247 | 14.247 | (1.000) | 271560 | 4.00000 | |
| 43 3-Nitroaniline | 138 | 14.217 | 14.216 | (0.998) | 226924 | 11.0613 | 11.06 |
| 44 Acenaphthene | 153 | 14.309 | 14.309 | (1.004) | 397863 | 4.99824 | 4.998 |
| 45 2,4-Dinitrophenol | 184 | 14.425 | 14.425 | (1.012) | 232450 | 17.6465 | 17.65 |
| 46 Dibenzofuran | 168 | 14.642 | 14.642 | (1.028) | 628885 | 4.96526 | 4.965 |
| 47 4-Nitrophenol | 109 | 14.595 | 14.595 | (1.024) | 99638 | 9.55634 | 9.556 |
| 48 2,4-Dinitrotoluene | 165 | 14.734 | 14.734 | (1.034) | 299294 | 10.3866 | 10.39 |
| 50 Diethylphthalate | 149 | 15.260 | 15.260 | (1.071) | 439682 | 5.50459 | 5.505 |
| 49 Fluorene | 166 | 15.345 | 15.345 | (1.077) | 540248 | 5.06247 | 5.062 |
| 51 4-Chlorophenyl-phenylether | 204 | 15.353 | 15.361 | (1.078) | 260762 | 4.59242 | 4.592 |
| 52 4-Nitroaniline | 138 | 15.484 | 15.484 | (1.087) | 210091 | 10.3309 | 10.33 |
| 53 4,6-Dinitro-2-methylphenol | 198 | 15.569 | 15.569 | (0.902) | 315204 | 18.8255 | 18.83 |
| 54 N-Nitrosodiphenylamine | 169 | 15.615 | 15.615 | (0.905) | 333919 | 5.32948 | 5.329 |
| § 55 2,4,6-Tribromophenol | 330 | 15.878 | 15.885 | (1.114) | 112228 | 7.45172 | 7.452 |
| 56 4-Bromophenyl-phenylether | 248 | 16.348 | 16.348 | (0.948) | 141820 | 5.14856 | 5.149 |
| 57 Hexachlorobenzene | 284 | 16.634 | 16.642 | (0.964) | 151312 | 4.99624 | 4.996 |
| 58 Pentachlorophenol | 266 | 17.013 | 17.013 | (0.986) | 156210 | 10.4427 | 10.44 |
| * 59 Phenanthrene-d10 | 188 | 17.253 | 17.253 | (1.000) | 498585 | 4.00000 | |
| 60 Phenanthrene | 178 | 17.299 | 17.299 | (1.003) | 652694 | 4.92100 | 4.921 |
| 61 Anthracene | 178 | 17.392 | 17.392 | (1.008) | 672587 | 5.36401 | 5.364 |
| 62 Carbazole | 167 | 17.740 | 17.748 | (1.028) | 565338 | 5.14432 | 5.144 |
| 63 Di-n-butylphthalate | 149 | 18.592 | 18.599 | (1.078) | 774260 | 5.56817 | 5.568 |
| 64 Fluoranthene | 202 | 19.721 | 19.729 | (0.881) | 735693 | 4.79722 | 4.797 |
| 65 Pyrene | 202 | 20.147 | 20.154 | (0.900) | 773972 | 4.78680 | 4.787 |
| § 66 Terphenyl-d14 | 244 | 20.479 | 20.479 | (0.915) | 564095 | 4.53120 | 4.531 |
| 67 Butylbenzylphthalate | 149 | 21.440 | 21.447 | (0.958) | 305278 | 5.44875 | 5.449 |
| 68 Benzo(a)anthracene | 228 | 22.346 | 22.353 | (0.999) | 736942 | 5.44263 | 5.443 |
| * 69 Chrysene-d12 | 240 | 22.377 | 22.376 | (1.000) | 404214 | 4.00000 | |
| 70 3,3'-Dichlorobenzidine | 252 | 22.330 | 22.338 | (0.998) | 758243 | 19.6092 | 19.61 |
| 71 Chrysene | 228 | 22.415 | 22.423 | (1.002) | 657672 | 5.05329 | 5.053 |
| 72 bis(2-Ethylhexyl)phthalate | 149 | 22.500 | 22.500 | (0.958) | 425317 | 4.81261 | 4.813 |
| * 134 Di-n-octylphthalate-d4 | 153 | 23.476 | 23.483 | (1.000) | 582020 | 4.00000 | |
| 73 Di-n-octylphthalate | 149 | 23.491 | 23.491 | (1.001) | 729065 | 4.75756 | 4.758 |
| 74 Benzo(b)fluoranthene | 252 | 24.111 | 24.118 | (0.975) | 567234 | 6.03132 | 6.031 |
| 75 Benzo(k)fluoranthene | 252 | 24.149 | 24.149 | (0.977) | 669242 | 6.59598 | 6.596 |
| 76 Benzo(a)pyrene | 252 | 24.629 | 24.637 | (0.996) | 439622 | 5.44848 | 5.448 |
| * 77 Perylene-d12 | 264 | 24.722 | 24.730 | (1.000) | 284657 | 4.00000 | |
| 78 Indeno(1,2,3-cd)pyrene | 276 | 26.800 | 26.808 | (1.084) | 229368 | 2.25825 | 2.258 |
| 79 Dibenzo(a,h)anthracene | 278 | 26.816 | 26.824 | (1.085) | 210477 | 2.43986 | 2.440 |
| 80 Benzo(g,h,i)perylene | 276 | 27.406 | 27.414 | (1.109) | 153848 | 1.73670 | 1.737 |
| 90 N-Nitrosodimethylamine | 74 | 3.989 | 3.996 | (0.486) | 269678 | 11.5045 | 11.50 |
| 91 Aniline | 93 | 7.689 | 7.689 | (0.937) | 616514 | 11.0528 | 11.05 |
| 93 Benzidine | 184 | 20.000 | 20.007 | (0.894) | 473676 | 7.40406 | 7.404 |
| 103 Pyridine | 79 | 3.989 | 3.996 | (0.486) | 403507 | 5.60395 | 5.604 |
| 105 1-methylnaphthalene | 142 | 12.305 | 12.305 | (1.155) | 420634 | 5.04035 | 5.040 |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77 | 15.677 | 15.685 | (1.100) | 524824 | 5.72332 | 5.723 |

| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|-------------------------------|-----------|--------|--------|---------|----------|----------------------|------------------|
| | | | | | | ON-COLUMN (ug/mL) | FINAL (ug/mL) |
| 187 Total Benzofluoranthenes | 252 | 24.149 | 24.149 | (0.977) | 1156855 | 12.5746 | 12.57 |
| 120 2,3,4,6-Tetrachlorophenol | 232 | 14.990 | 14.997 | (1.052) | 153859 | 4.91154 | 4.912 |

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 02-MAR-2023
 Lab File ID: NT1423022856.D Calibration Time: 05:52
 Lab Smp Id: SLB0374-CCV7
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: JGR
 Method File: \\target\share\chem3\nt14.i\20230228.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 116519 | 58260 | 233038 | 125192 | 7.44 |
| 27 Naphthalene-d8 | 429090 | 214545 | 858180 | 458907 | 6.95 |
| 42 Acenaphthene-d10 | 250637 | 125319 | 501274 | 271560 | 8.35 |
| 59 Phenanthrene-d10 | 458117 | 229059 | 916234 | 498585 | 8.83 |
| 69 Chrysene-d12 | 393468 | 196734 | 786936 | 404214 | 2.73 |
| 134 Di-n-octylphthala | 572636 | 286318 | 1145272 | 582020 | 1.64 |
| 77 Perylene-d12 | 283320 | 141660 | 566640 | 284657 | 0.47 |

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

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

REVIEW SUMMARY FOR FILE - NT1423022856.D

Lab ID: SLB0374-CCV7
nt14.i, ABN.m, 02-MAR-2023 10:41

RT CO-ELUTION COMPOUNDS

13.931 Acenaphthylene and 2,6-Dinitrotoluene

Quant Method: ICAL

RRT CHECK

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

NONE

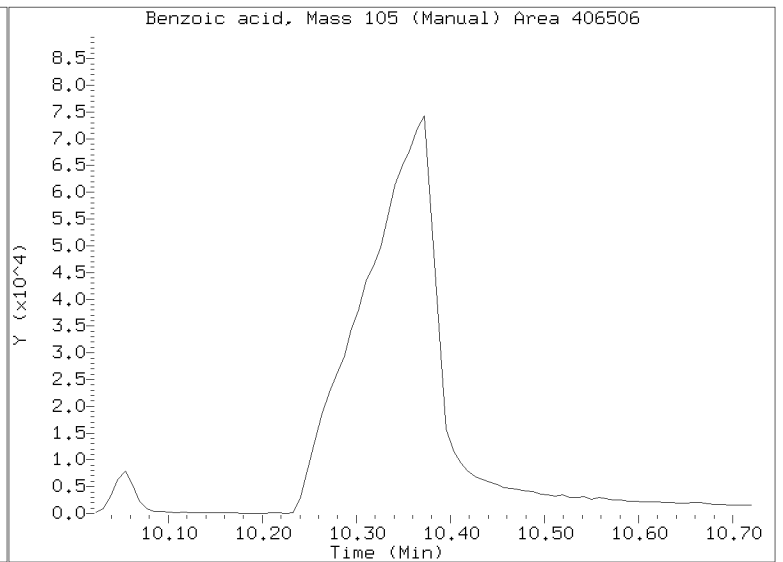
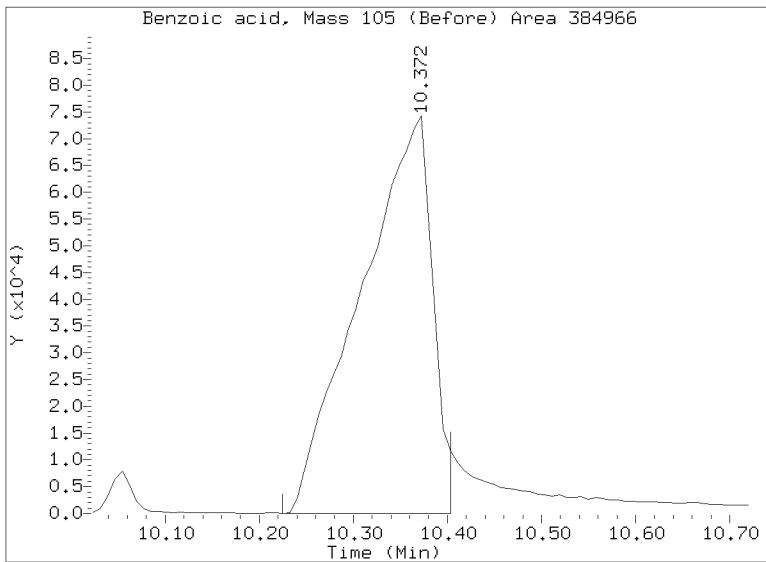
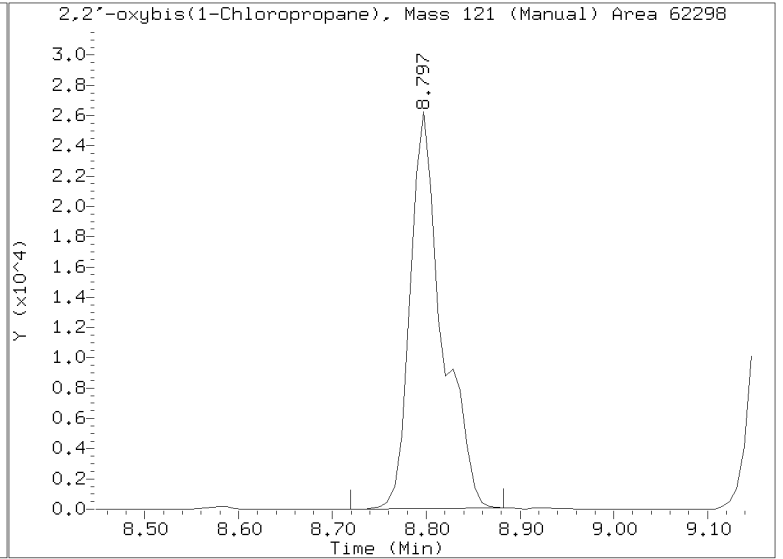
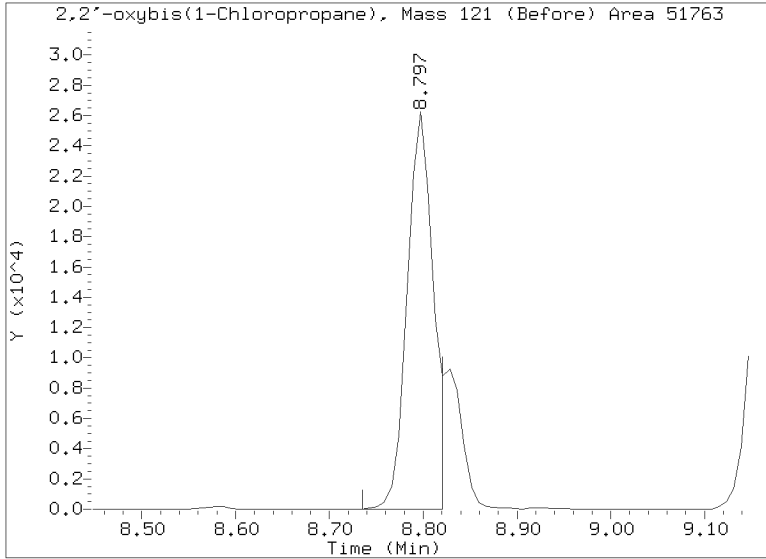
RRT check based on Ccal File: NT1423022848.D

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

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230228.b/NT1423022856.D
Injection Date: 02-MAR-2023 10:41
Lab ID:SLB0374-CCV7 Client ID:
Report Date: 03/14/2023 08:44





LOW-CONCENTRATION
CONTINUING CALIBRATION CHECK
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: NT14

Calibration: GC00033

Lab File ID: NT1423022823.D

Calibration Date: 02/28/2023

Sequence: SLB0374

Injection Date: 03/01/23

Lab Sample ID: SLB0374-LCV1

Injection Time: 14:51

Sequence Name: ABN 0.2

| COMPOUND | TYPE | CONC. (ug/mL) | | RESPONSE FACTOR (RRF) | | | % DRIFT/DIFF | |
|------------------------------|------|---------------|-----|-----------------------|-----------|-----|--------------|---------|
| | | STD | CCV | ICAL | CCV | MIN | CCV | LIMIT |
| Phenol | A | 0.20000 | 0.2 | 1.8373500 | 1.9885460 | | 8.2 | +/-50 |
| bis(2-chloroethyl) ether | A | 0.20000 | 0.2 | 1.5312550 | 1.2943160 | | -0.3 | +/-50 |
| 2-Chlorophenol | A | 0.20000 | 0.2 | 1.3533690 | 1.1998220 | | -11.3 | +/-50 |
| 1,3-Dichlorobenzene | A | 0.20000 | 0.2 | 1.4914740 | 1.5736120 | | 5.5 | +/-50 |
| 1,4-Dichlorobenzene | A | 0.20000 | 0.2 | 1.4740600 | 1.4956810 | | 1.5 | +/-50 |
| 1,2-Dichlorobenzene | A | 0.20000 | 0.2 | 1.4134490 | 1.5450190 | | 9.3 | +/-50 |
| Benzyl Alcohol | A | 0.20000 | 0.1 | 0.6439892 | 0.3994177 | | -50.1 | +/-50 * |
| 2,2'-Oxybis(1-chloropropane) | A | 0.20000 | 0.2 | 0.3811859 | 0.4074374 | | 6.9 | +/-50 |
| 2-Methylphenol | A | 0.20000 | 0.2 | 1.1607310 | 1.0120560 | | -12.8 | +/-50 |
| Hexachloroethane | A | 0.20000 | 0.1 | 0.5535732 | 0.4133651 | | -25.3 | +/-50 |
| N-Nitroso-di-n-Propylamine | A | 0.20000 | 0.2 | 0.8837751 | 0.8903650 | | 0.7 | +/-50 |
| 4-Methylphenol | A | 0.20000 | 0.1 | 1.1353050 | 0.8914110 | | -34.1 | +/-50 |
| Nitrobenzene | A | 0.20000 | 0.2 | 0.3760061 | 0.3460825 | | -8.0 | +/-50 |
| Isophorone | A | 0.20000 | 0.2 | 0.4996273 | 0.5320725 | | -9.5 | +/-50 |
| 2-Nitrophenol | A | 0.20000 | 0.1 | 0.1467597 | 0.1342934 | | -31.0 | +/-50 |
| 2,4-Dimethylphenol | A | 0.40000 | 0.4 | 0.3427845 | 0.3540774 | | 3.3 | +/-50 |
| Bis(2-Chloroethoxy)methane | A | 0.20000 | 0.2 | 0.3780235 | 0.3699689 | | -2.1 | +/-50 |
| 2,4-Dichlorophenol | A | 0.40000 | 0.3 | 0.2946235 | 0.2518123 | | -27.6 | +/-50 |
| 1,2,4-Trichlorobenzene | A | 0.20000 | 0.2 | 0.3874001 | 0.3942477 | | 1.8 | +/-50 |
| Naphthalene | A | 0.20000 | 0.2 | 1.0669580 | 1.1393850 | | 6.8 | +/-50 |
| Benzoic acid | A | 0.80000 | 0.0 | 0.1358415 | | | | +/-50 * |
| 4-Chloroaniline | A | 0.40000 | 0.3 | 0.4563565 | 0.3585652 | | -21.4 | +/-50 |
| Hexachlorobutadiene | A | 0.20000 | 0.2 | 0.2363916 | 0.2214516 | | -6.3 | +/-50 |
| 4-Chloro-3-Methylphenol | A | 0.40000 | 0.3 | 0.3085482 | 0.2347927 | | -23.9 | +/-50 |
| 2-Methylnaphthalene | A | 0.20000 | 0.2 | 0.7901196 | 0.7668161 | | -3.0 | +/-50 |
| Hexachlorocyclopentadiene | A | 0.40000 | 0.0 | 0.3443795 | | | | +/-50 * |
| 2,4,6-Trichlorophenol | A | 0.40000 | 0.3 | 0.3907367 | 0.3054073 | | -21.8 | +/-50 |
| 2,4,5-Trichlorophenol | A | 0.40000 | 0.3 | 0.4224702 | 0.2919677 | | -30.9 | +/-50 |
| 2-Chloronaphthalene | A | 0.20000 | 0.2 | 1.2480280 | 1.2960640 | | 3.9 | +/-50 |
| 2-Nitroaniline | A | 0.40000 | 0.3 | 0.3254949 | 0.2708174 | | -16.8 | +/-50 |
| Acenaphthylene | A | 0.20000 | 0.2 | 1.8312950 | 2.0241310 | | 10.5 | +/-50 |
| Dimethylphthalate | A | 0.20000 | 0.2 | 1.2581570 | 1.3381060 | | 6.4 | +/-50 |
| 2,6-Dinitrotoluene | A | 0.40000 | 0.4 | 0.2948315 | 0.2743497 | | -6.9 | +/-50 |
| Acenaphthene | A | 0.20000 | 0.2 | 1.1724930 | 1.2317090 | | 5.1 | +/-50 |

* Values outside of QC limits



LOW-CONCENTRATION
CONTINUING CALIBRATION CHECK
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: NT14

Calibration: GC00033

Lab File ID: NT1423022823.D

Calibration Date: 02/28/2023

Sequence: SLB0374

Injection Date: 03/01/23

Lab Sample ID: SLB0374-LCV1

Injection Time: 14:51

Sequence Name: ABN 0.2

| COMPOUND | TYPE | CONC. (ug/mL) | | RESPONSE FACTOR (RRF) | | | % DRIFT/DIFF | |
|----------------------------|------|---------------|-------|-----------------------|-----------|-----|--------------|---------|
| | | STD | CCV | ICAL | CCV | MIN | CCV | LIMIT |
| 3-Nitroaniline | A | 0.40000 | 0.2 | 0.3021810 | 0.1668756 | | -44.8 | +/-50 |
| 2,4-Dinitrophenol | A | 0.80000 | 0.0 | 0.1437811 | | | | +/-50 * |
| Dibenzofuran | A | 0.20000 | 0.2 | 1.8656210 | 1.8507940 | | -0.8 | +/-50 |
| 4-Nitrophenol | A | 0.40000 | 0.0 | 0.1323756 | | | | +/-50 * |
| 2,4-Dinitrotoluene | A | 0.40000 | 0.3 | 0.4244424 | 0.2966198 | | -30.1 | +/-50 |
| Fluorene | A | 0.20000 | 0.2 | 1.5719010 | 1.6504060 | | 5.0 | +/-50 |
| 4-Chlorophenylphenyl ether | A | 0.20000 | 0.2 | 0.8363665 | 0.8411839 | | 0.6 | +/-50 |
| Diethyl phthalate | A | 0.20000 | 0.2 | 1.1765440 | 1.2641020 | | 7.4 | +/-50 |
| 4-Nitroaniline | A | 0.40000 | 0.3 | 0.2995450 | 0.2032315 | | -32.2 | +/-50 |
| 4,6-Dinitro-2-methylphenol | A | 0.80000 | 0.1 | 0.0975169 | 0.0228618 | | -82.8 | +/-50 * |
| N-Nitrosodiphenylamine | A | 0.20000 | 0.2 | 0.5026629 | 0.5335801 | | 6.2 | +/-50 |
| 4-Bromophenyl phenyl ether | A | 0.20000 | 0.2 | 0.2209900 | 0.2231385 | | 1.0 | +/-50 |
| Hexachlorobenzene | A | 0.20000 | 0.2 | 0.2429692 | 0.2597911 | | 6.9 | +/-50 |
| Pentachlorophenol | A | 0.40000 | 0.07 | 0.0938263 | 0.0205595 | | -82.0 | +/-50 * |
| Phenanthrene | A | 0.20000 | 0.2 | 1.0640870 | 1.0964450 | | 3.0 | +/-50 |
| Anthracene | A | 0.20000 | 0.2 | 1.0059580 | 1.0291720 | | 2.3 | +/-50 |
| Carbazole | A | 0.20000 | 0.2 | 0.8816605 | 0.8177756 | | -7.2 | +/-50 |
| Di-n-Butylphthalate | A | 0.20000 | 0.2 | 0.9469101 | 1.0196870 | | -10.5 | +/-50 |
| Fluoranthene | A | 0.20000 | 0.2 | 1.5175930 | 1.4966620 | | -1.4 | +/-50 |
| Pyrene | A | 0.20000 | 0.2 | 1.6000330 | 1.5552410 | | -2.8 | +/-50 |
| Butylbenzylphthalate | A | 0.20000 | 0.2 | 0.4562763 | 0.5786320 | | 2.2 | +/-50 |
| Benzo(a)anthracene | A | 0.20000 | 0.2 | 1.3399020 | 1.4839000 | | 10.7 | +/-50 |
| 3,3'-Dichlorobenzidine | A | 0.60000 | 0.7 | 0.3826468 | 0.4674708 | | 22.2 | +/-50 |
| Chrysene | A | 0.20000 | 0.2 | 1.2879040 | 1.3867250 | | 7.7 | +/-50 |
| bis(2-Ethylhexyl)phthalate | A | 0.20000 | 0.2 | 0.5161185 | 0.5503757 | | -9.9 | +/-50 |
| Di-n-Octylphthalate | A | 0.20000 | 0.2 | 1.0531830 | 1.0655420 | | 1.2 | +/-50 |
| Benzofluoranthenes, Total | A | 0.40000 | 0.4 | 1.2927770 | 1.3549630 | | 4.8 | +/-50 |
| Benzo(a)pyrene | A | 0.20000 | 0.2 | 1.1338150 | 1.2509790 | | 10.3 | +/-50 |
| Indeno(1,2,3-cd)pyrene | A | 0.20000 | 0.1 | 1.4272450 | 0.9343166 | | -34.5 | +/-50 |
| Dibenzo(a,h)anthracene | A | 0.20000 | 0.1 | 1.2122070 | 0.8663379 | | -28.5 | +/-50 |
| Benzo(g,h,i)perylene | A | 0.20000 | 0.1 | 1.2448130 | 0.6194175 | | -50.2 | +/-50 * |
| 1-Methylnaphthalene | A | 0.20000 | 0.2 | 0.7274101 | 0.7097243 | | -2.4 | +/-50 |
| 2-Fluorophenol | A | 0.30000 | 0.218 | 1.0846110 | 0.7868639 | | -27.5 | +/-50 |
| Phenol-d5 | A | 0.30000 | 0.252 | 1.5399100 | 1.2922230 | | -16.1 | +/-50 |

* Values outside of QC limits



**LOW-CONCENTRATION
CONTINUING CALIBRATION CHECK
EPA 8270E**

| | | | |
|----------------|----------------------------------|-------------------|------------------------|
| Laboratory: | <u>Analytical Resources, LLC</u> | SDG: | <u>23A0180</u> |
| Client: | <u>Anchor QEA, LLC</u> | Project: | <u>AOC5 MR Phase 1</u> |
| Instrument ID: | <u>NT14</u> | Calibration: | <u>GC00033</u> |
| Lab File ID: | <u>NT1423022823.D</u> | Calibration Date: | <u>02/28/2023</u> |
| Sequence: | <u>SLB0374</u> | Injection Date: | <u>03/01/23</u> |
| Lab Sample ID: | <u>SLB0374-LCV1</u> | Injection Time: | <u>14:51</u> |
| Sequence Name: | <u>ABN 0.2</u> | | |

| COMPOUND | TYPE | CONC. (ug/mL) | | RESPONSE FACTOR (RRF) | | | % DRIFT/DIFF | |
|------------------------|------|---------------|-------|-----------------------|-----------|-----|--------------|-------|
| | | STD | CCV | ICAL | CCV | MIN | CCV | LIMIT |
| 2-Chlorophenol-d4 | A | 0.30000 | 0.272 | 1.3093910 | 1.1852940 | | -9.5 | +/-50 |
| 1,2-Dichlorobenzene-d4 | A | 0.20000 | 0.196 | 0.9857584 | 0.9642860 | | -2.2 | +/-50 |
| Nitrobenzene-d5 | A | 0.20000 | 0.197 | 0.3912861 | 0.3862528 | | -1.3 | +/-50 |
| 2-Fluorobiphenyl | A | 0.20000 | 0.207 | 1.5568580 | 1.6097420 | | 3.4 | +/-50 |
| 2,4,6-Tribromophenol | A | 0.30000 | 0.207 | 0.1850894 | 0.1485253 | | -30.9 | +/-50 |
| p-Terphenyl-d14 | A | 0.20000 | 0.199 | 1.2319340 | 1.2234380 | | -0.7 | +/-50 |

* Values outside of QC limits

* Values outside of QC limits

Data File: \\target\share\chem3\nt14,1\20230228,16\NT1423022823.D

Date: 01-MAR-2023 14:51

Client ID:

Sample Info: SLB0374-LCW1

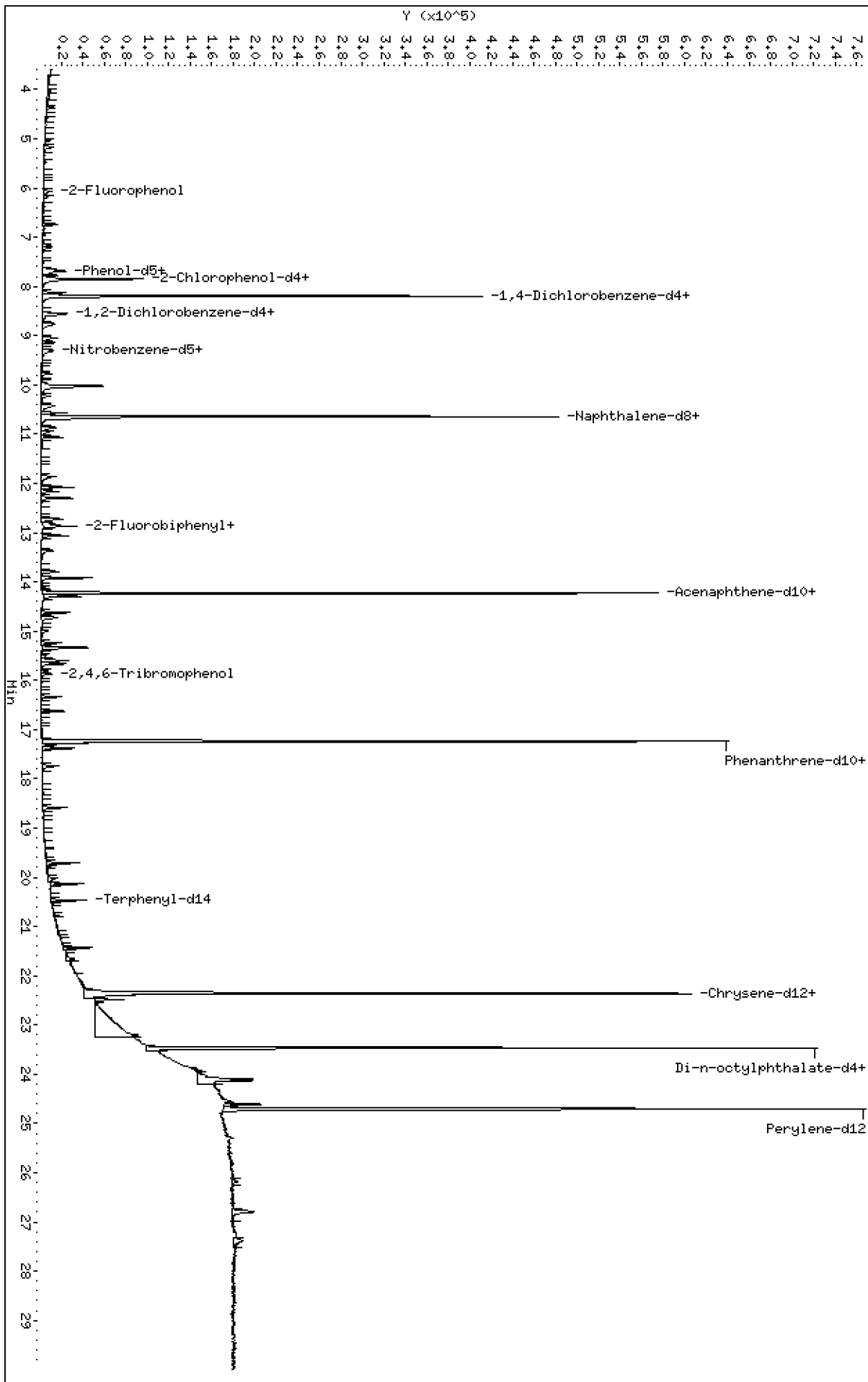
Column phase: ZB-5msi

Instrument: nt14,1

Operator: JGR

Column diameter: 0.25

\\target\share\chem3\nt14,1\20230228,16\NT1423022823.D



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

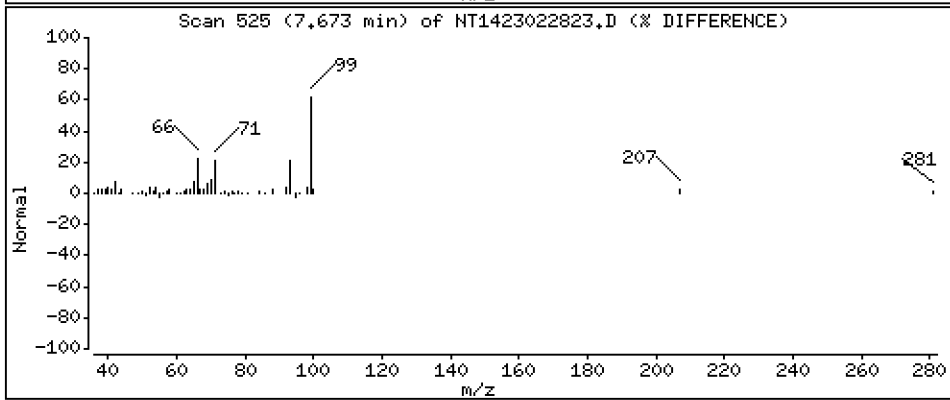
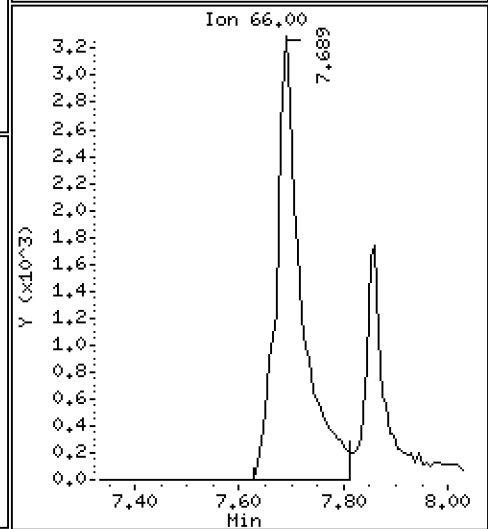
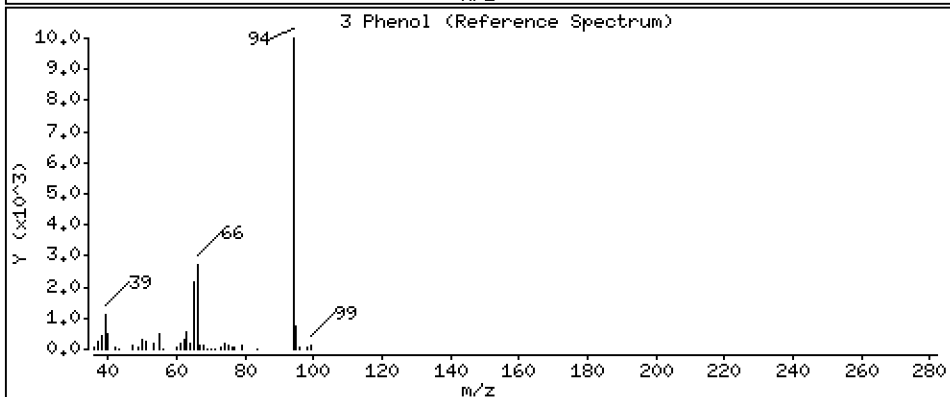
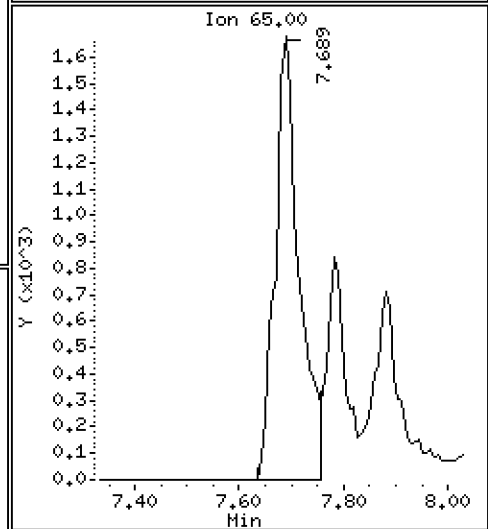
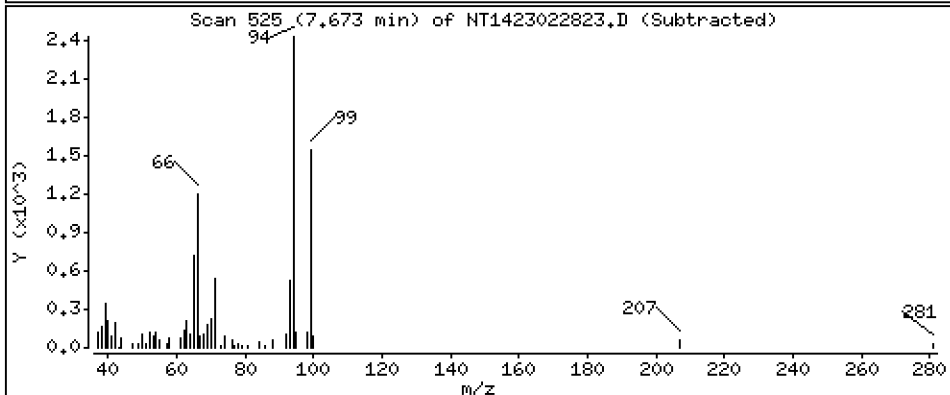
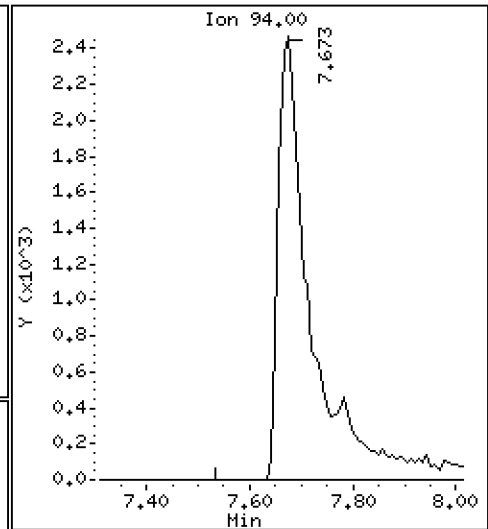
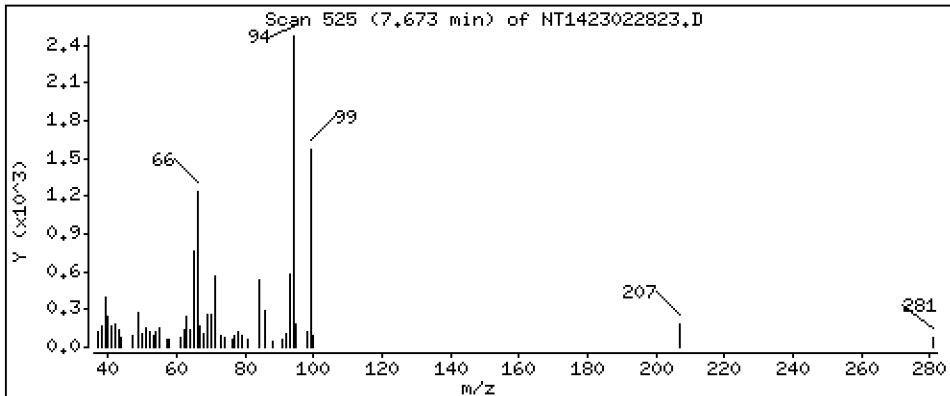
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 0,2165 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

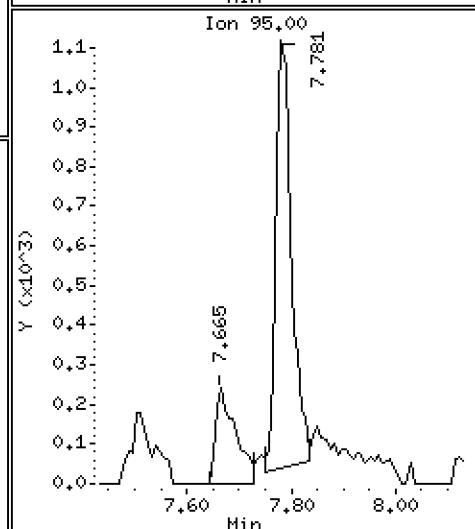
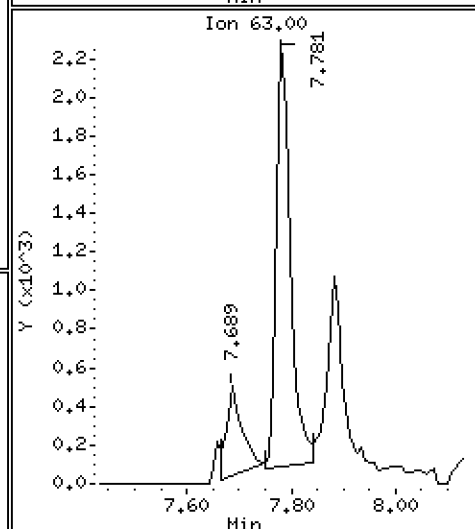
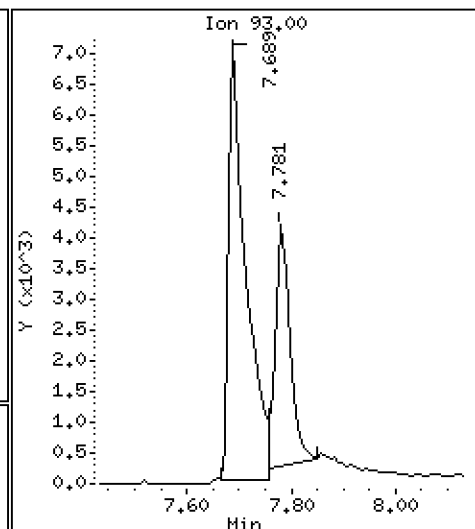
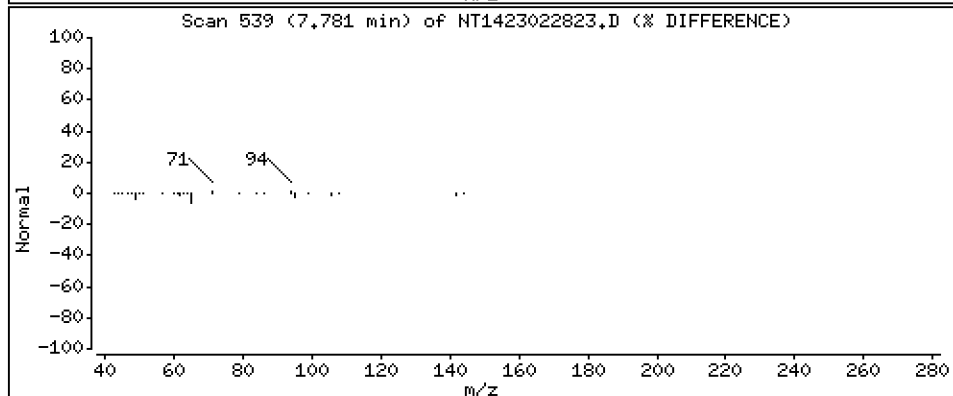
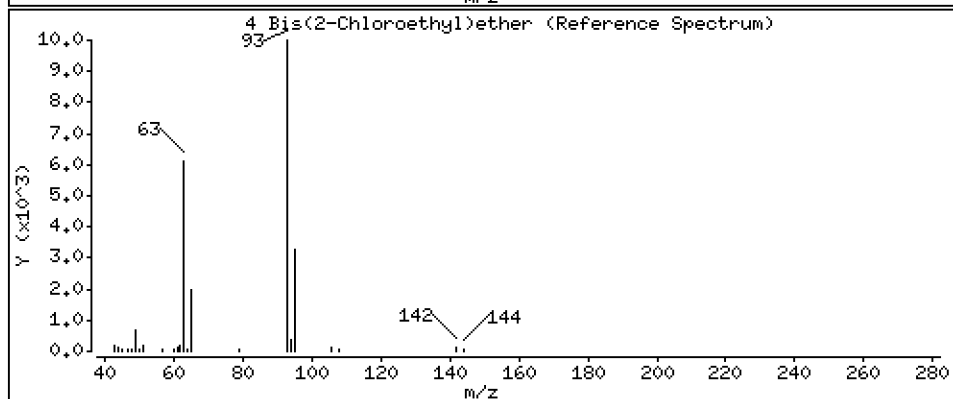
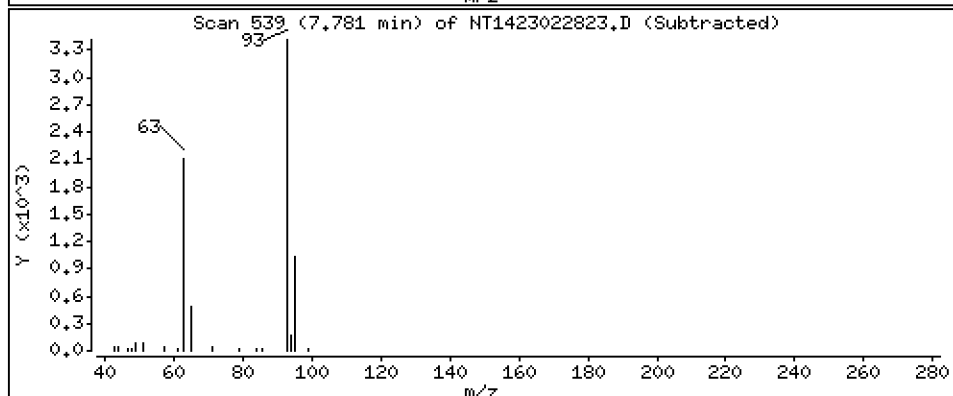
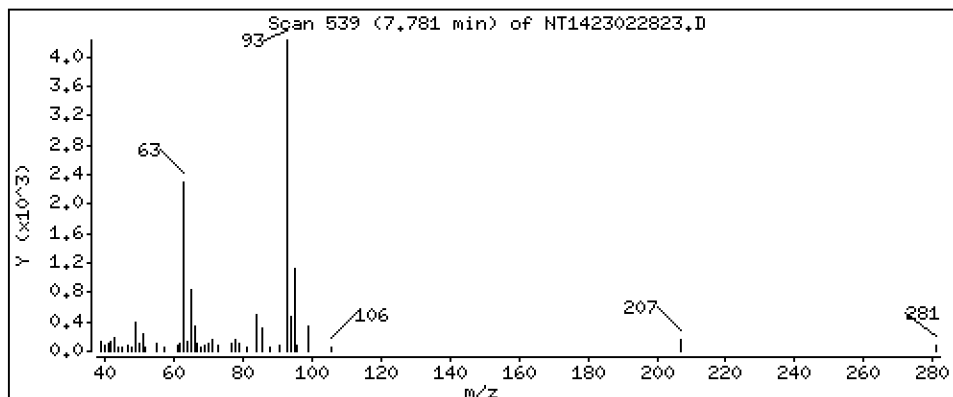
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

4 Bis(2-Chloroethyl)ether

Concentration: 0.1995 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

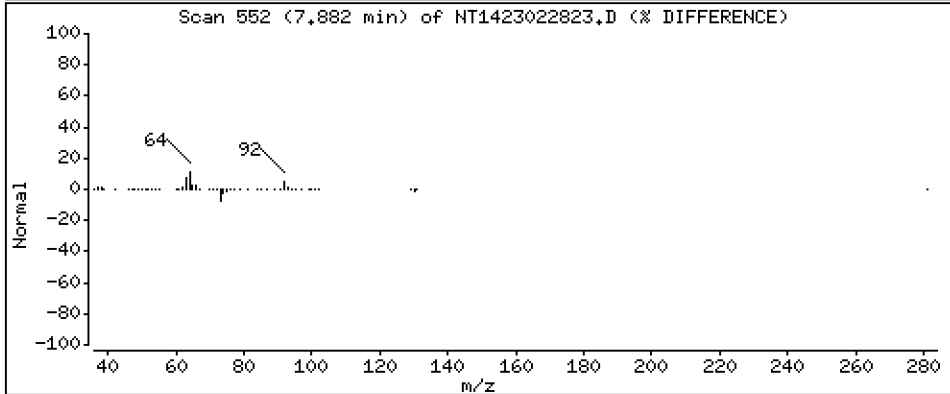
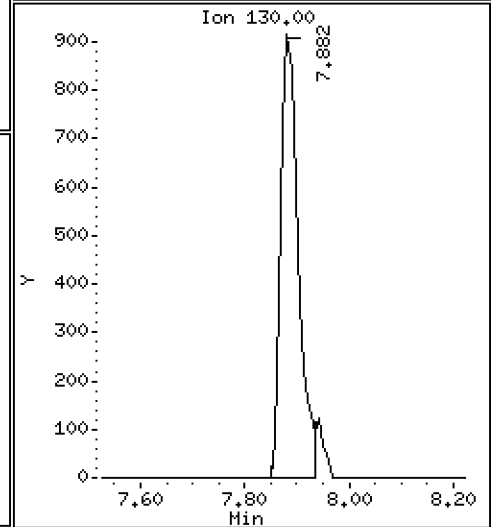
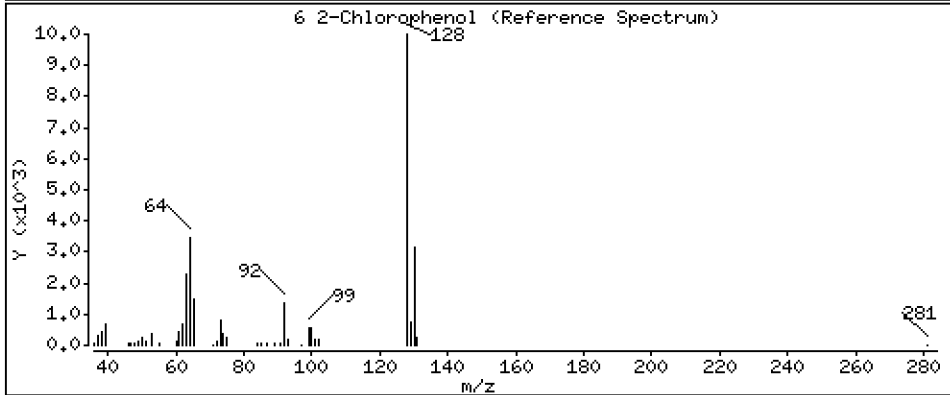
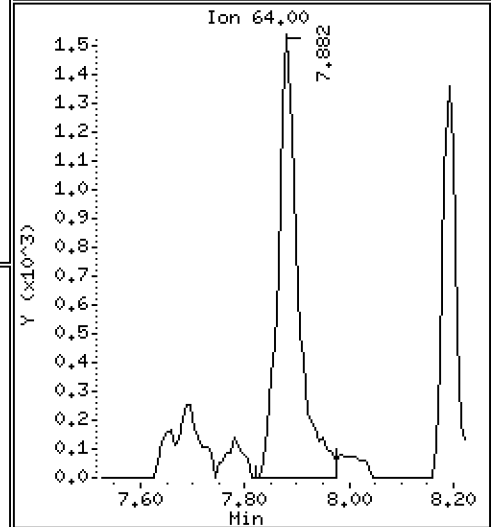
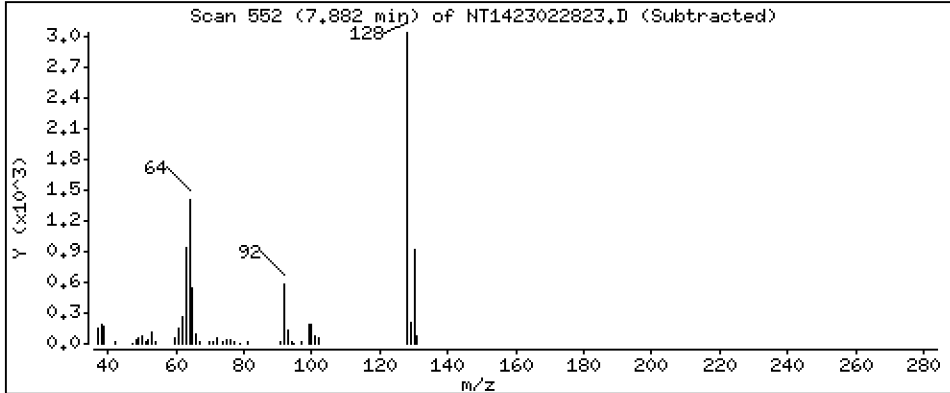
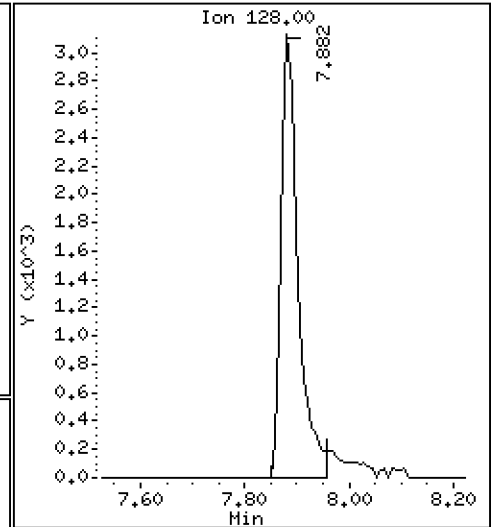
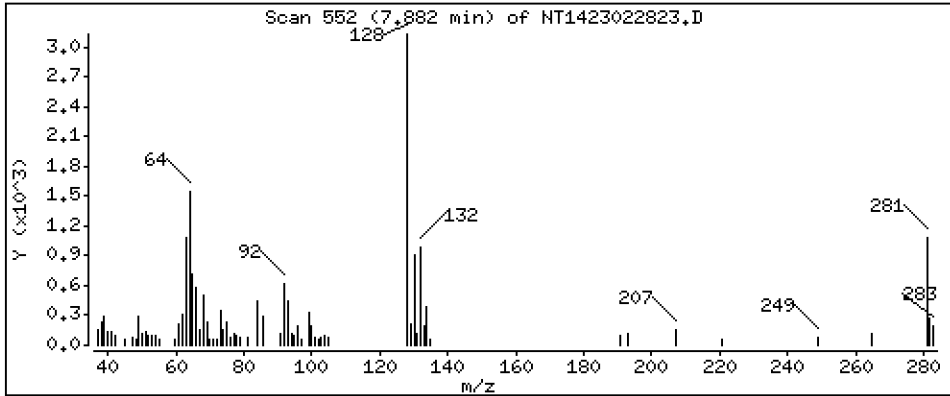
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

6 2-Chlorophenol

Concentration: 0.1773 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

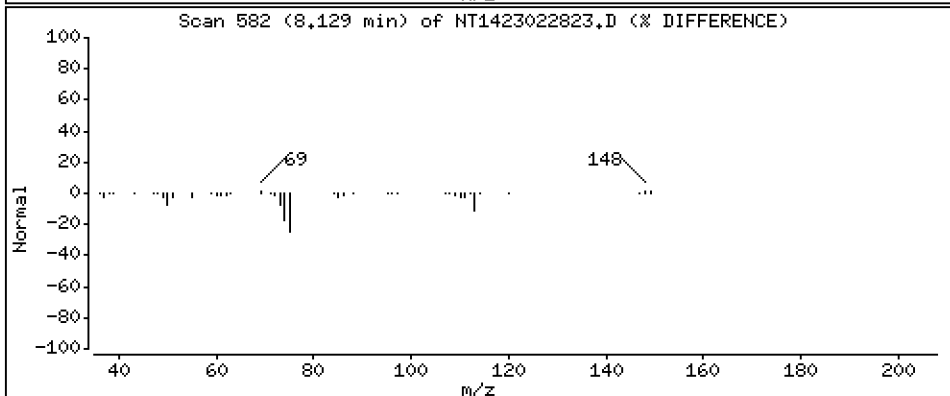
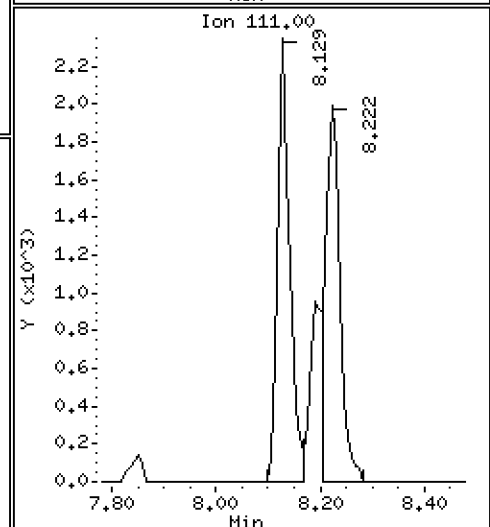
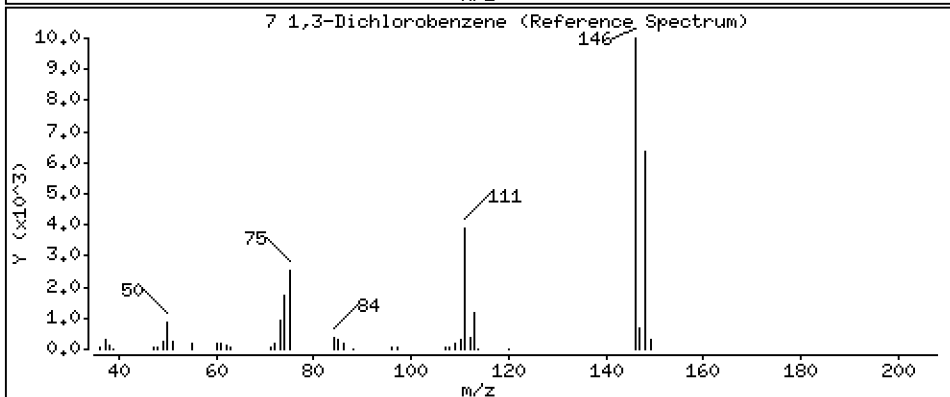
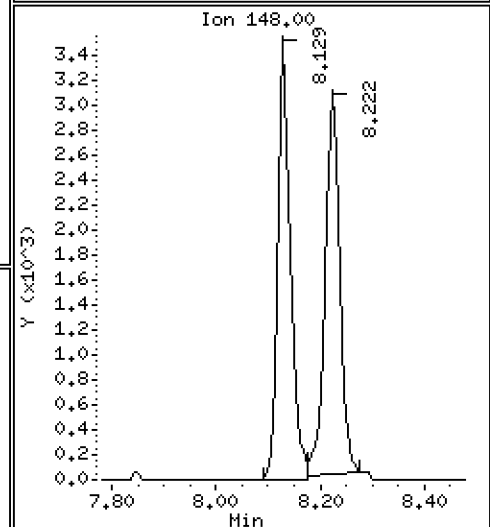
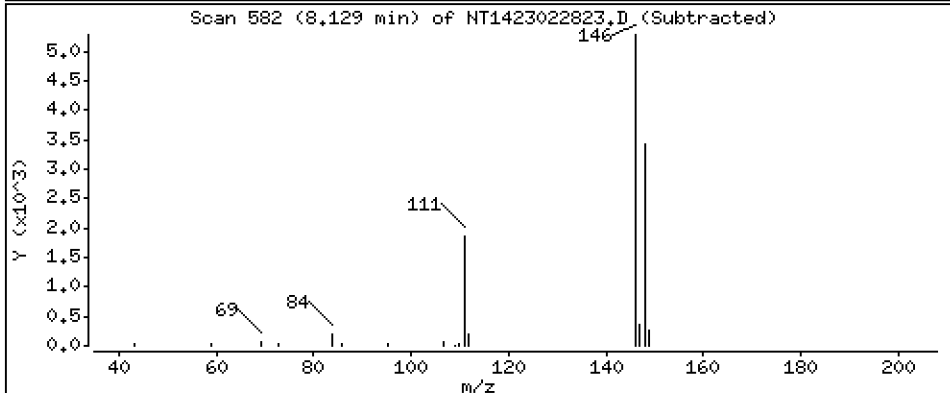
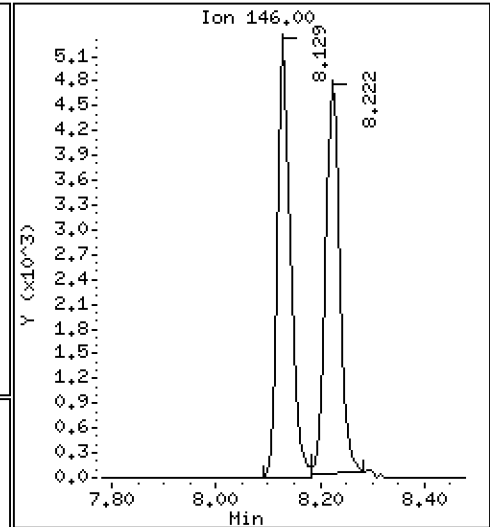
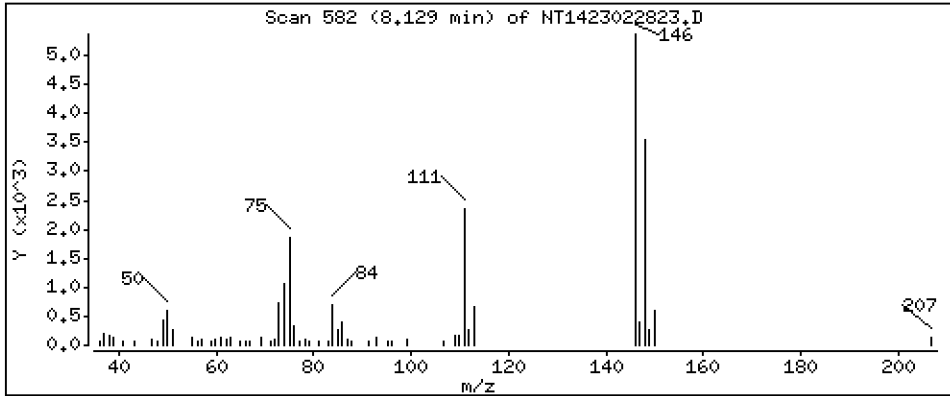
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

7 1,3-Dichlorobenzene

Concentration: 0,2110 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

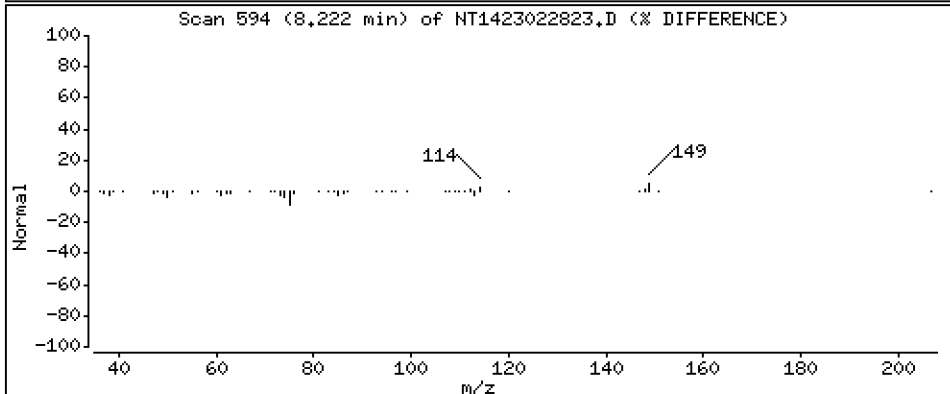
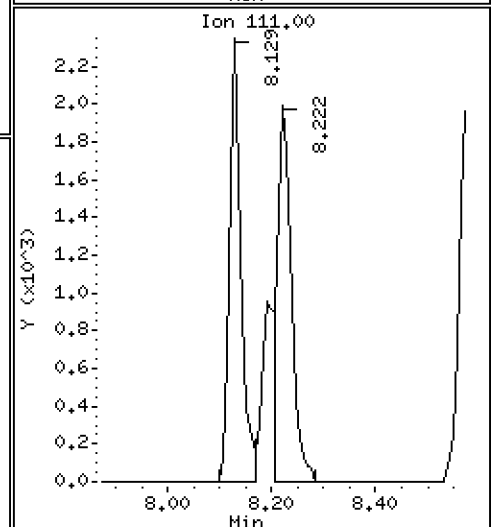
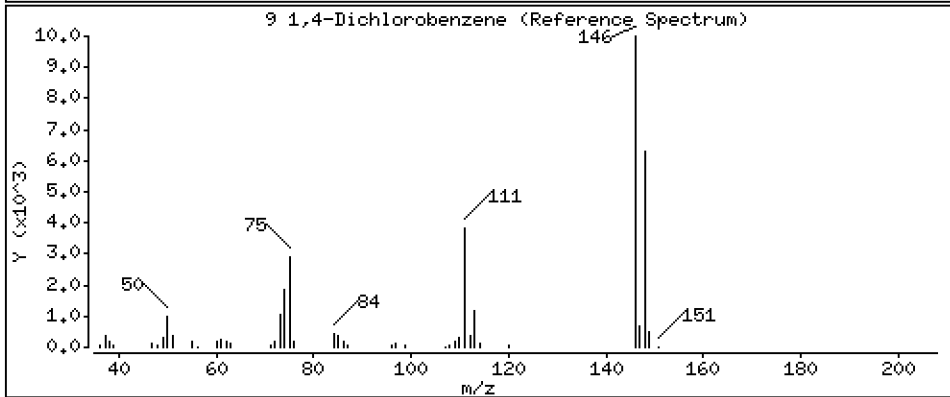
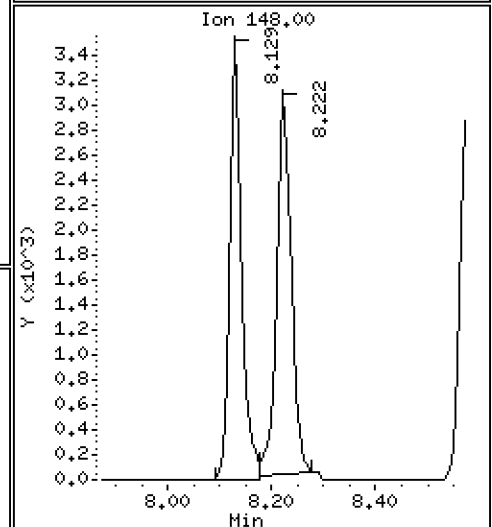
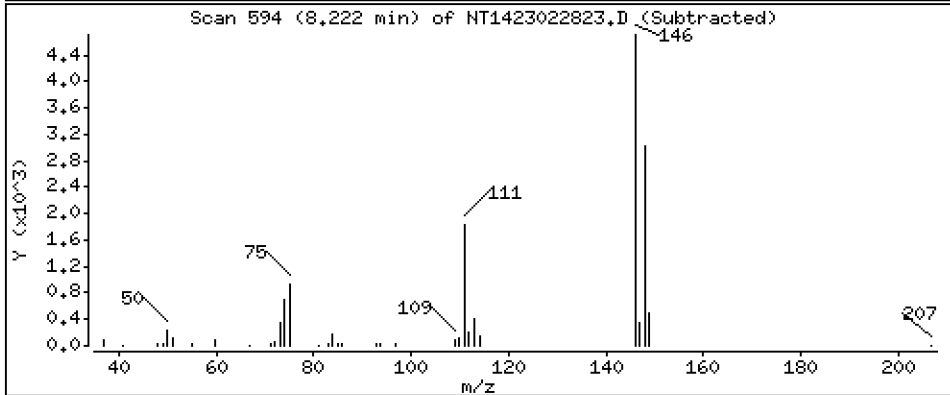
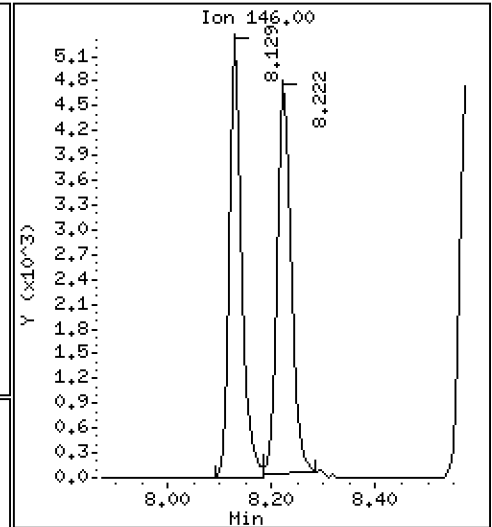
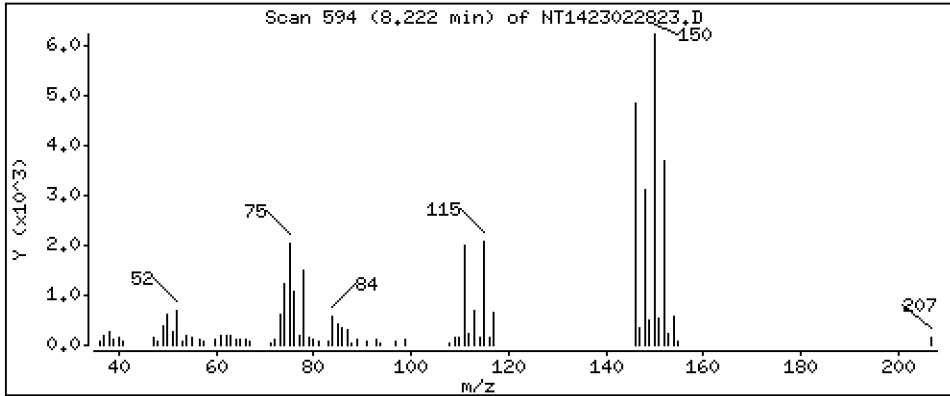
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 0,2029 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

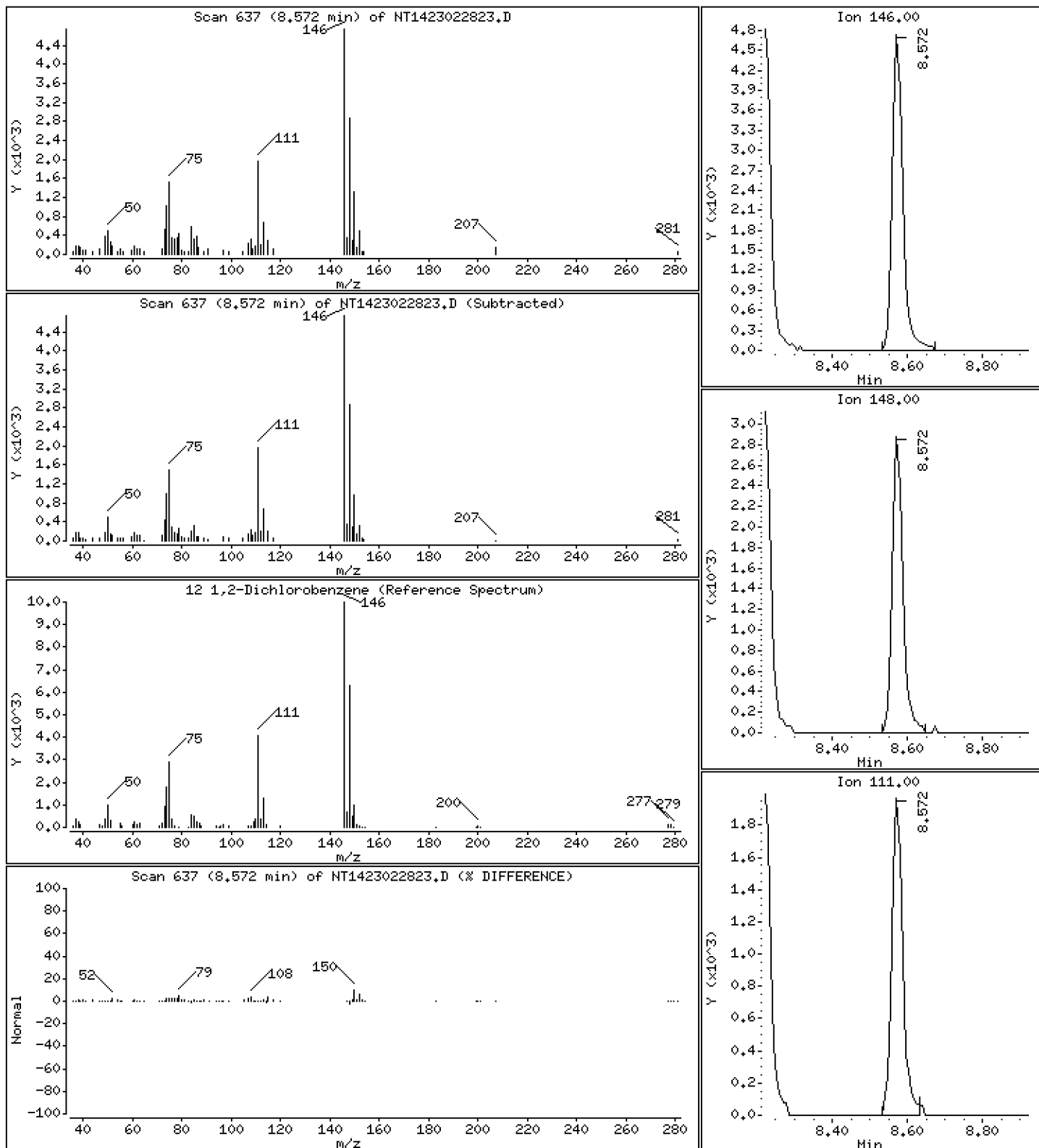
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

12 1,2-Dichlorobenzene

Concentration: 0,2186 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

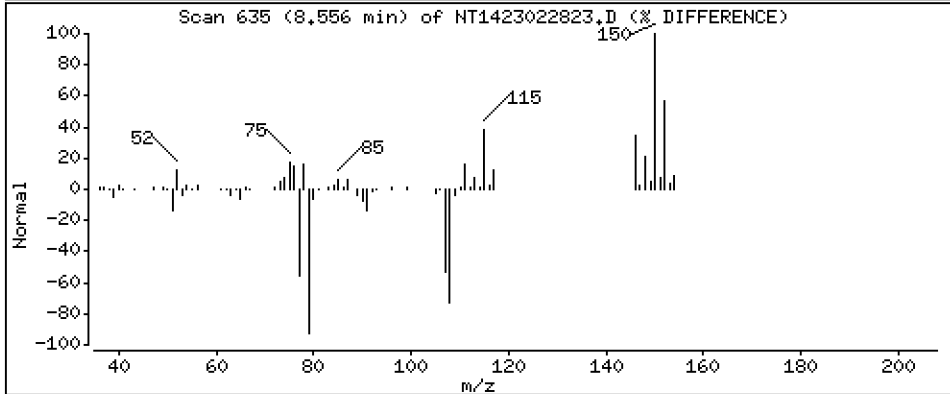
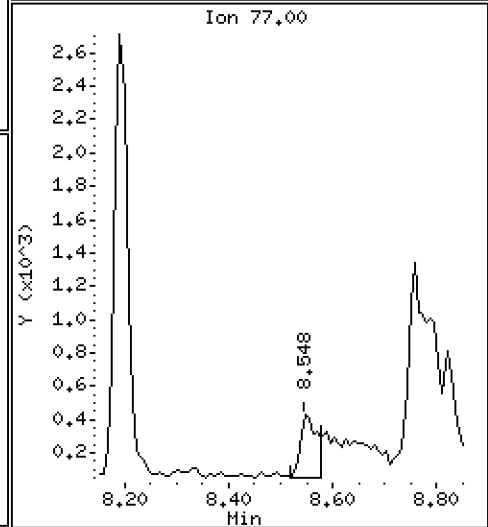
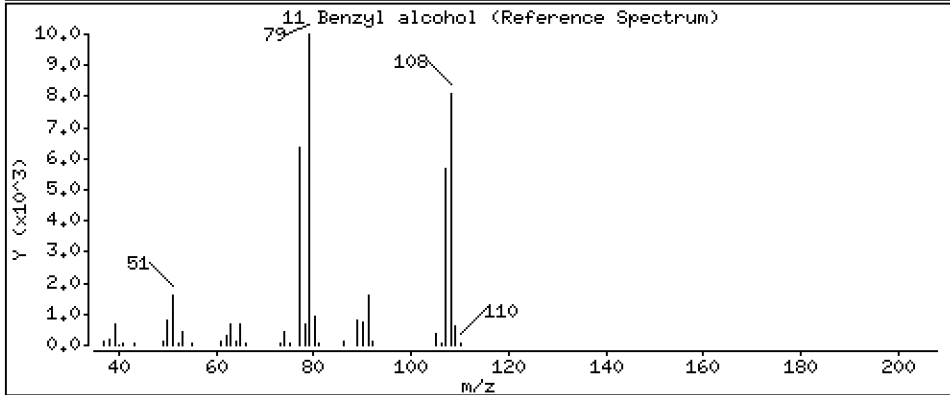
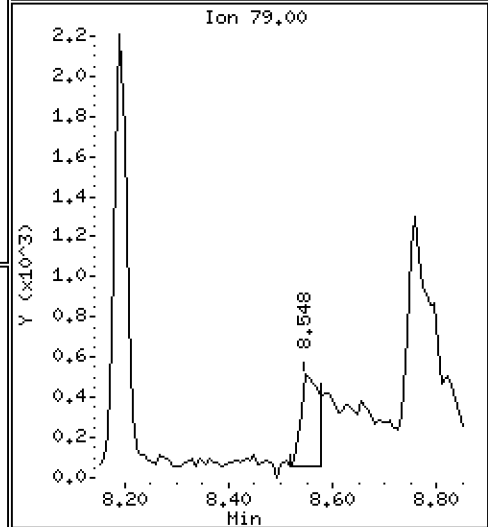
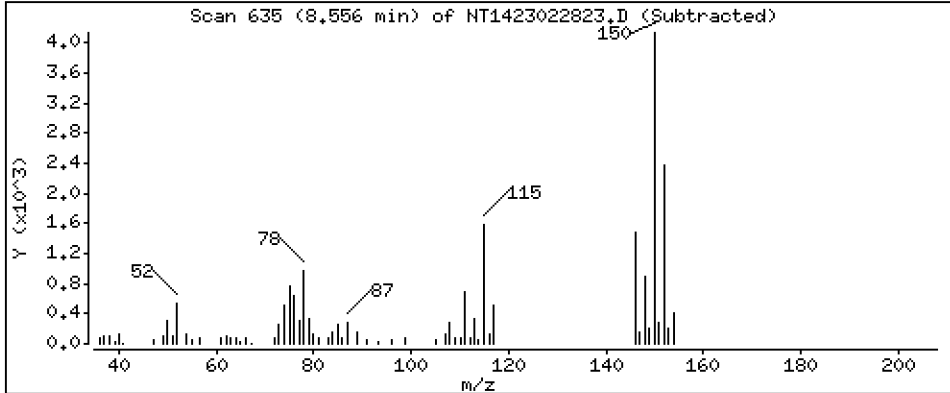
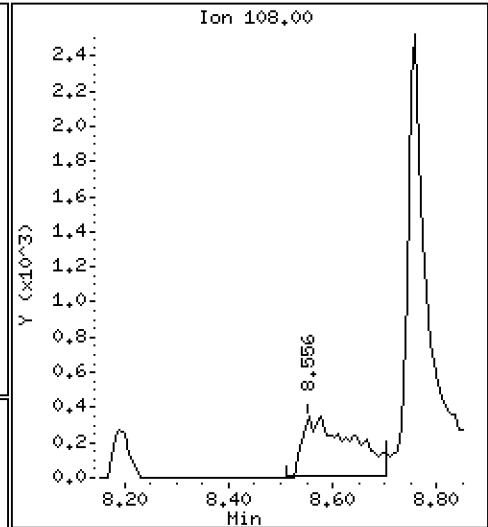
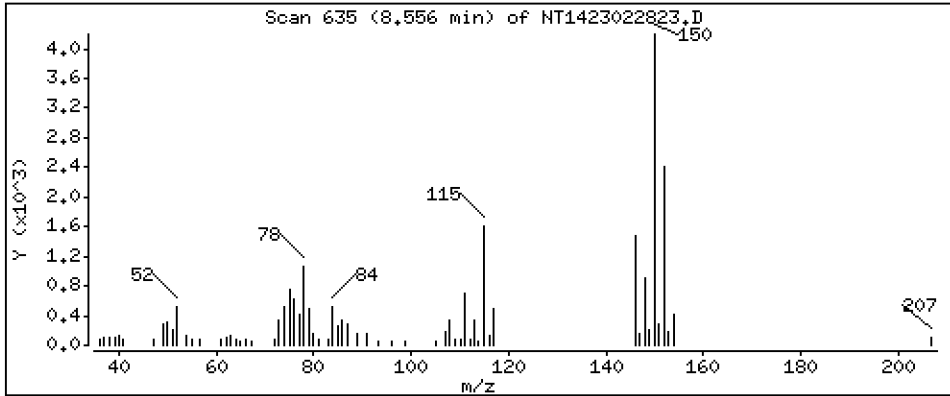
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 0.09976 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

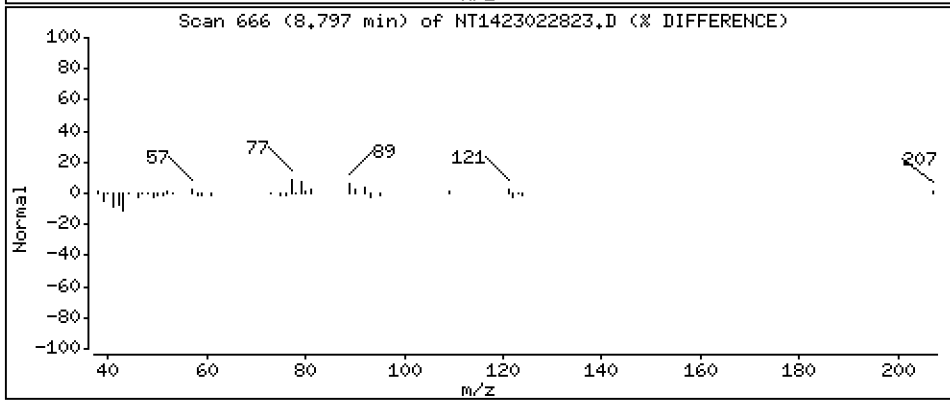
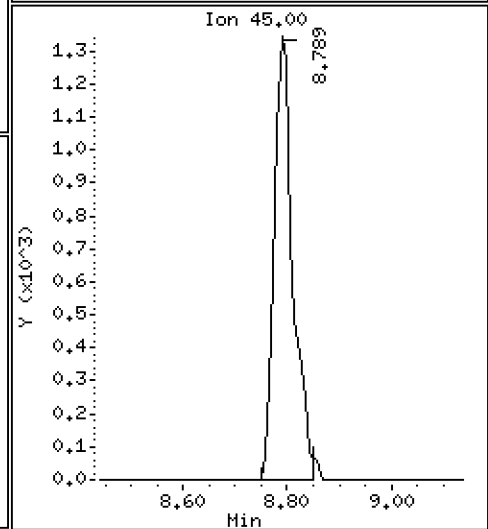
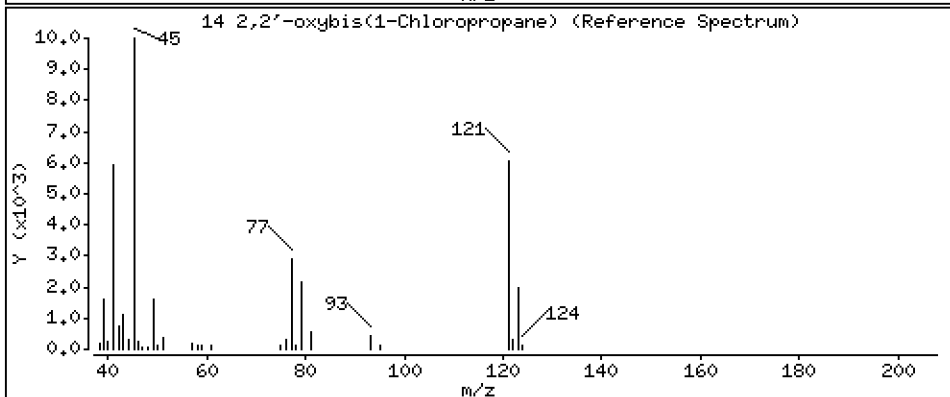
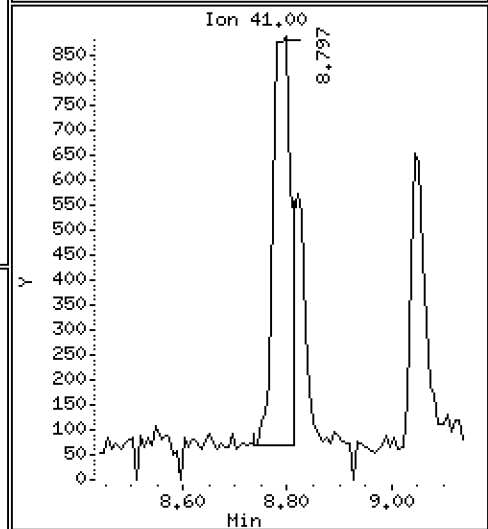
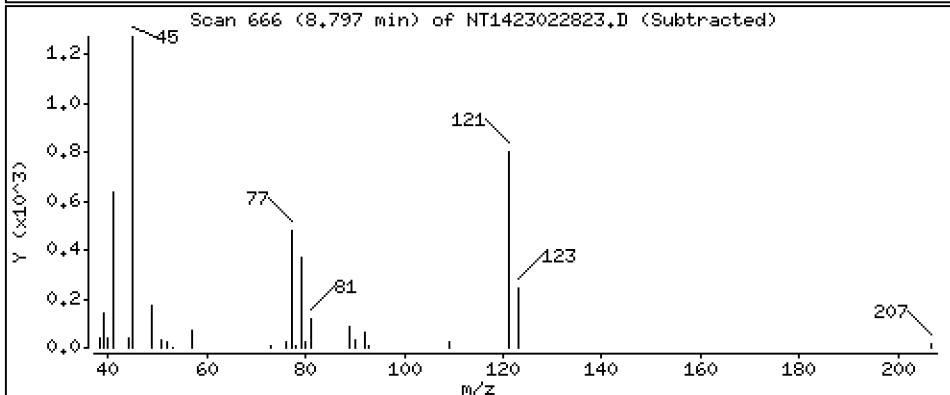
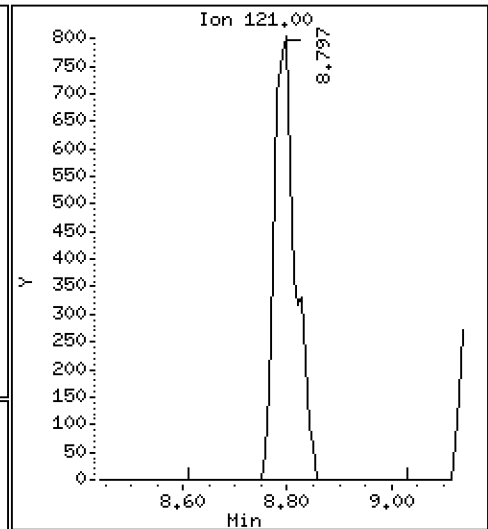
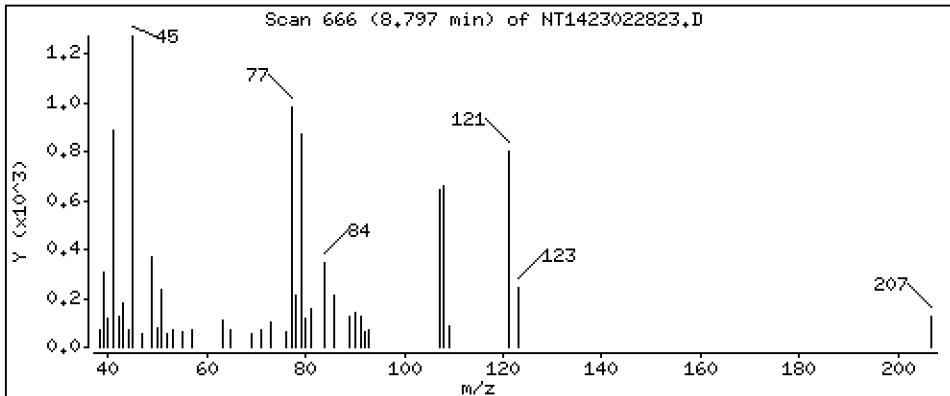
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 0,2138 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

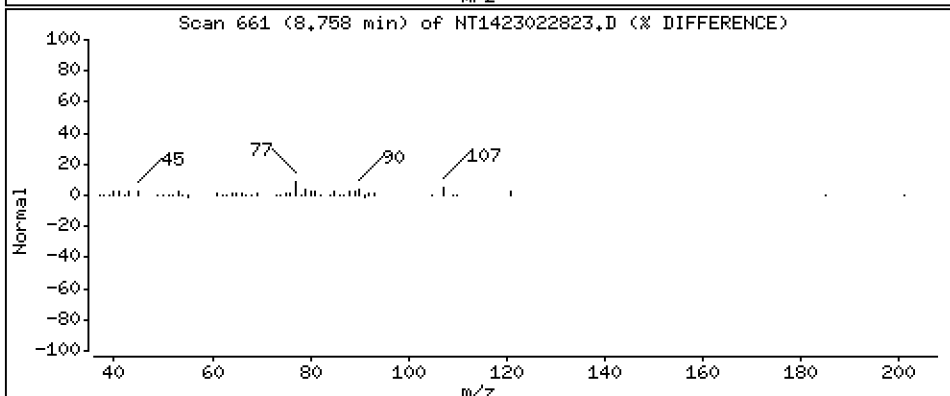
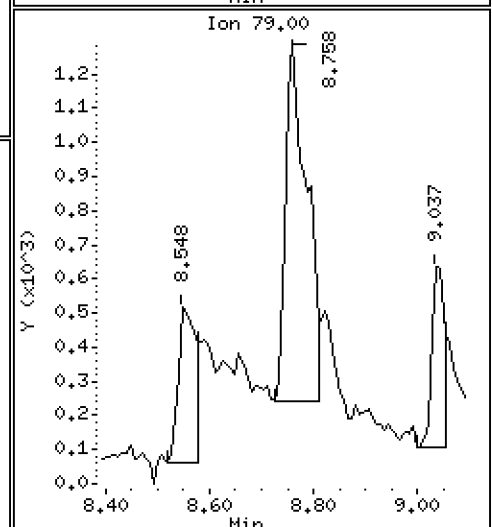
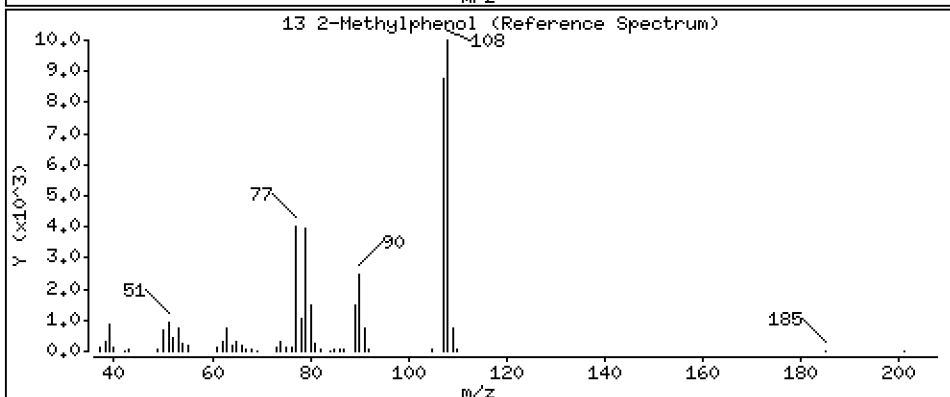
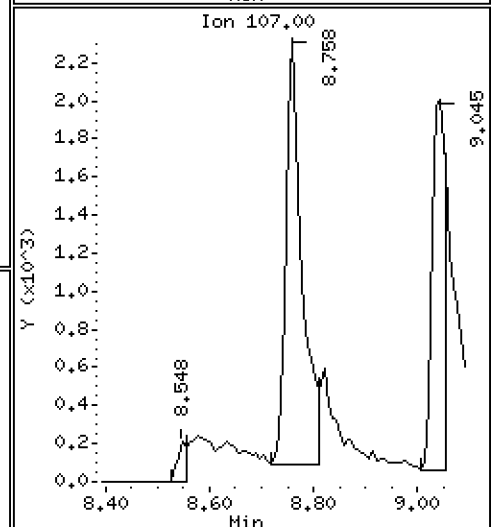
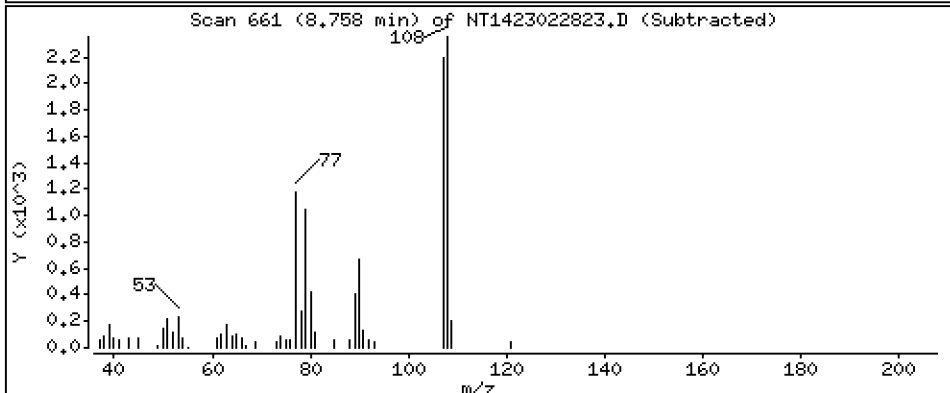
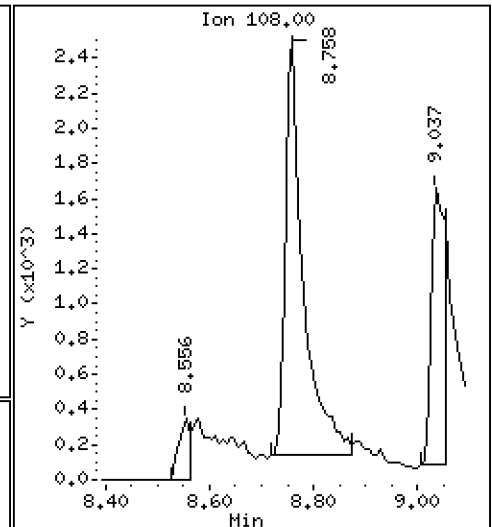
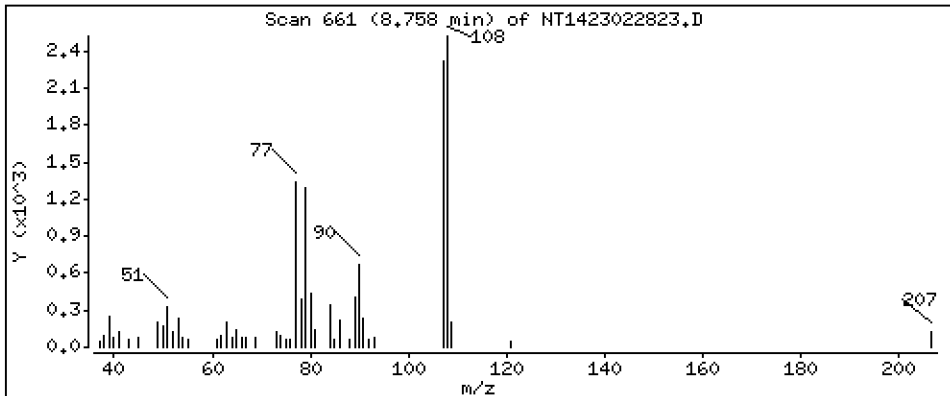
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

13 2-Methylphenol

Concentration: 0.1744 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

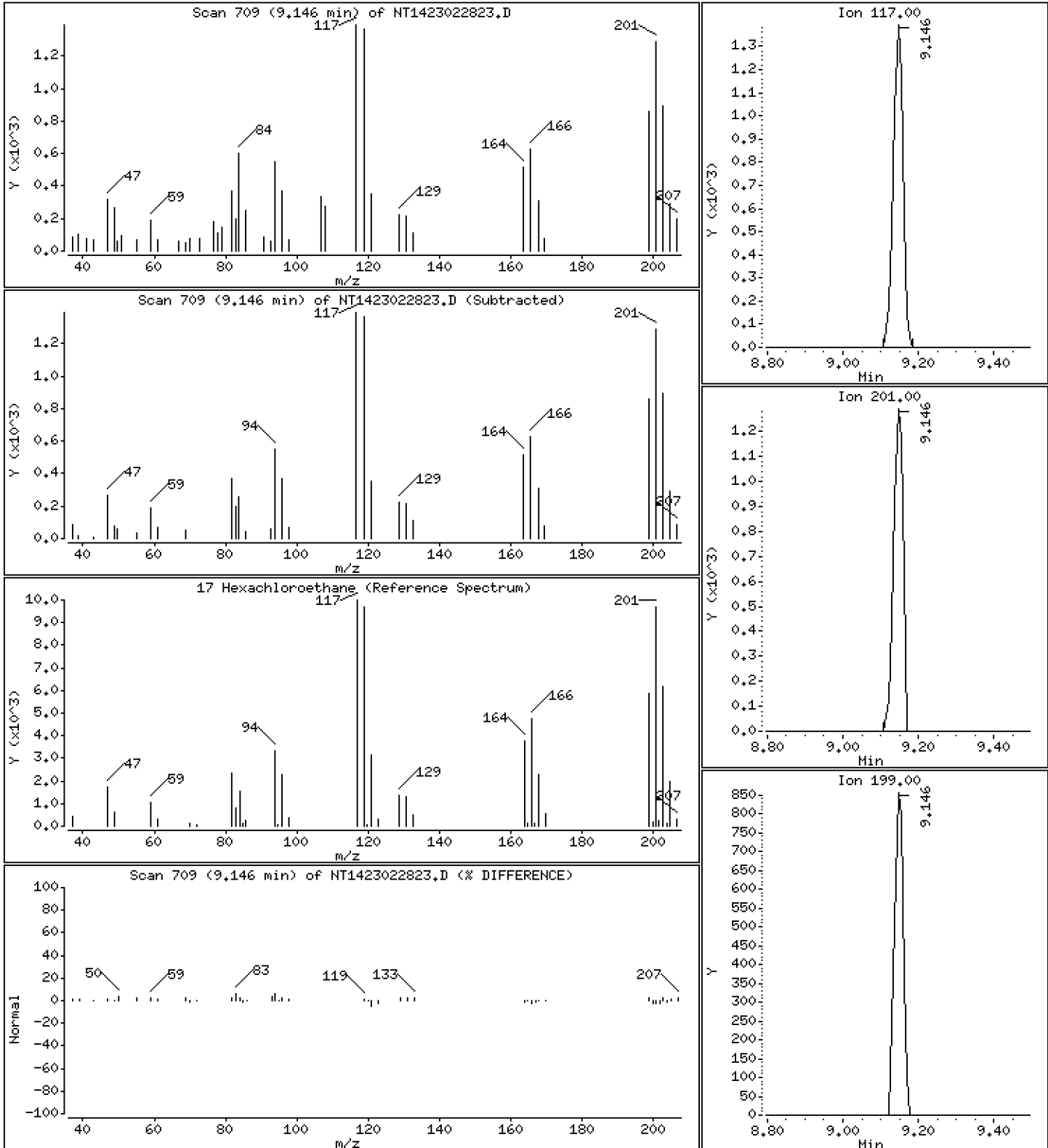
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

17 Hexachloroethane

Concentration: 0,1493 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

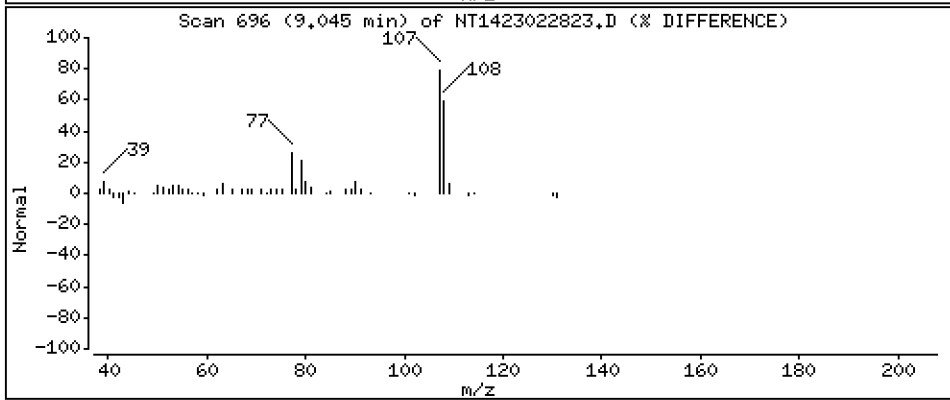
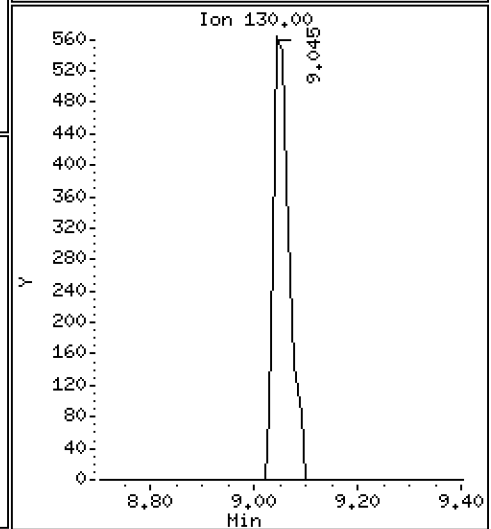
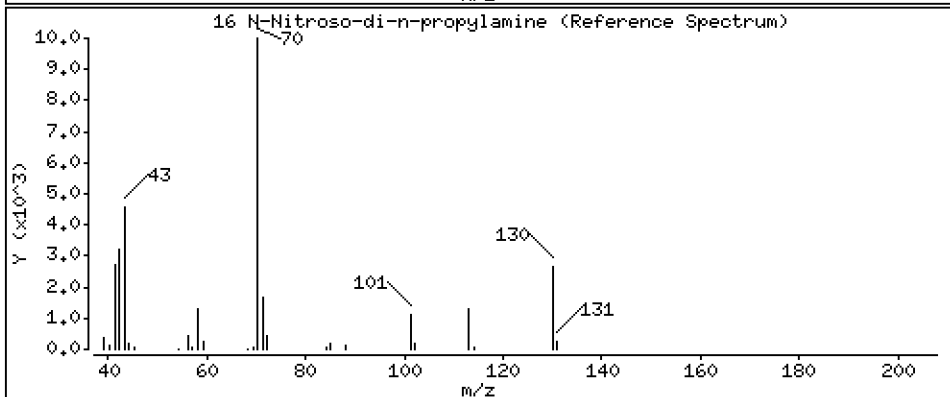
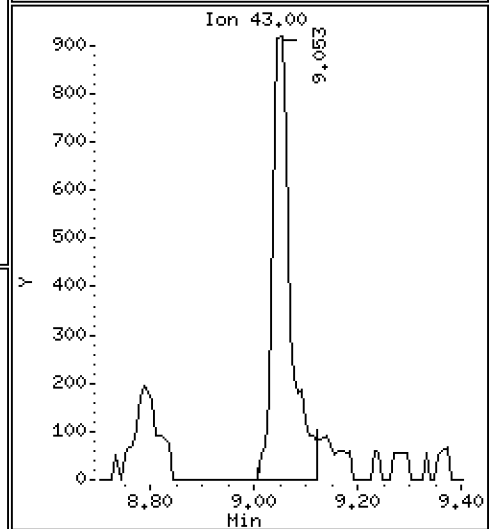
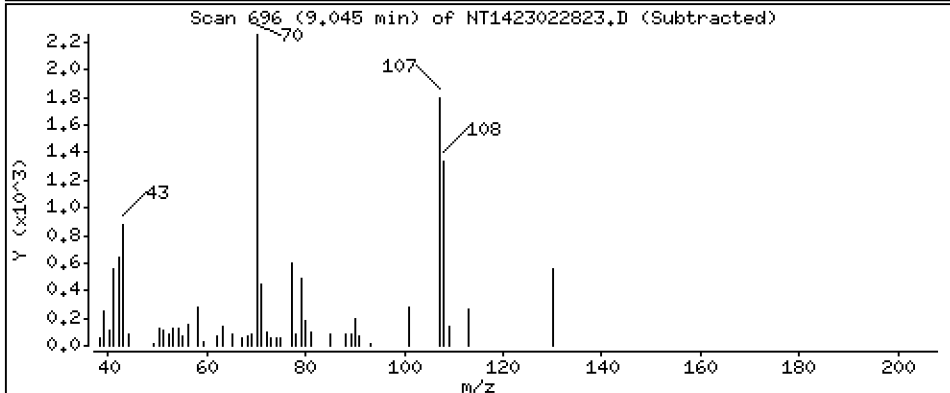
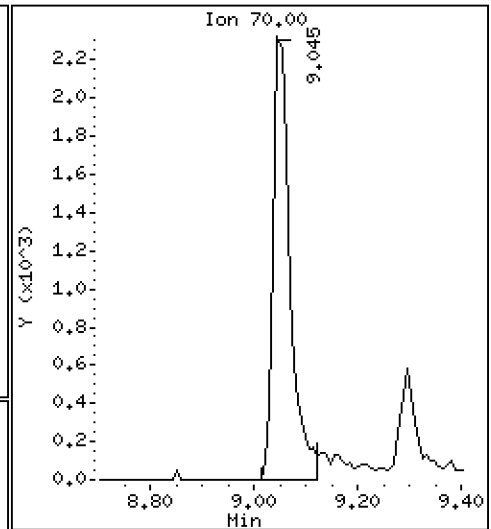
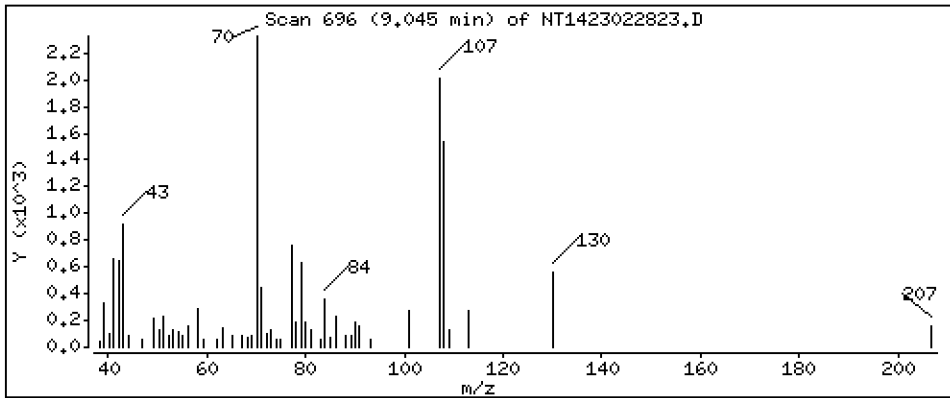
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

16 N-Nitroso-di-n-propylamine

Concentration: 0,2015 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

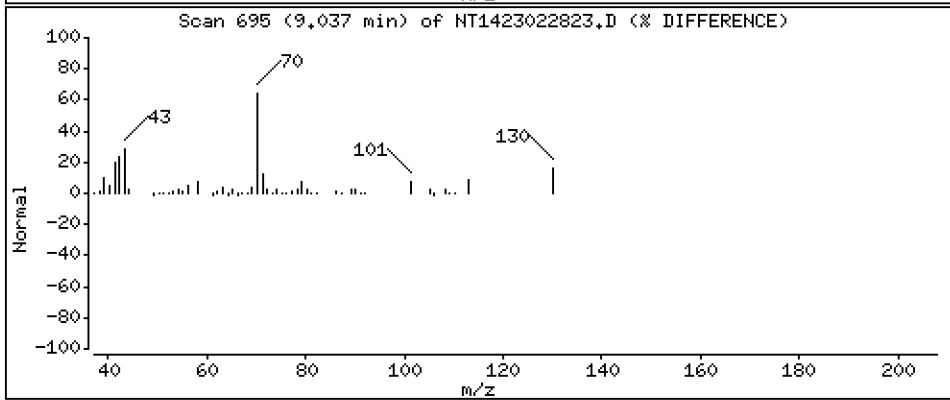
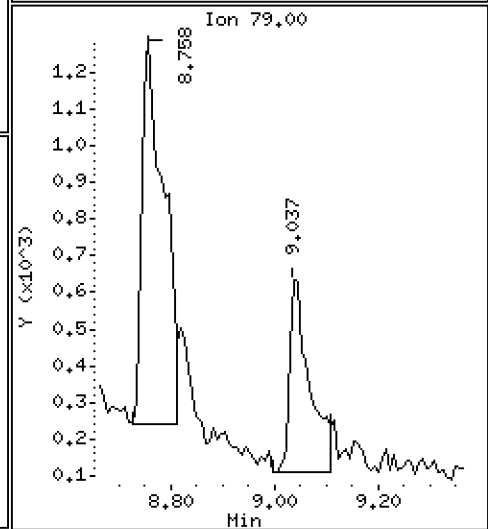
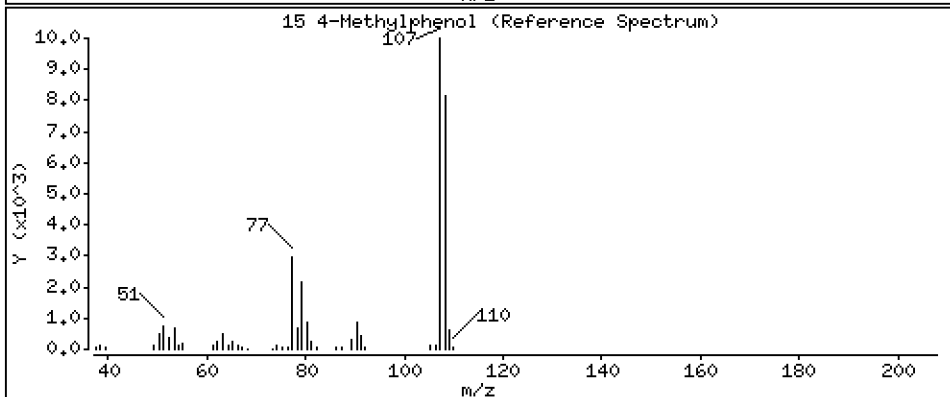
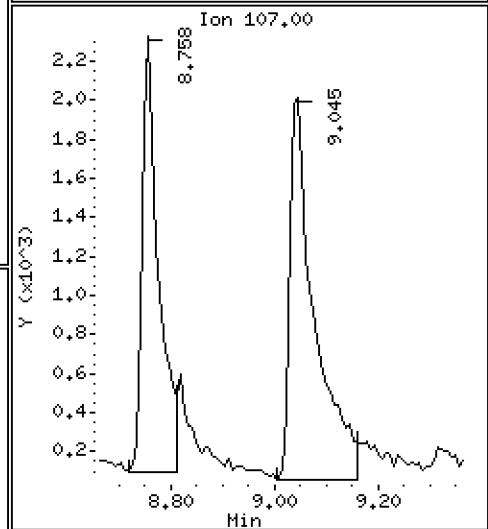
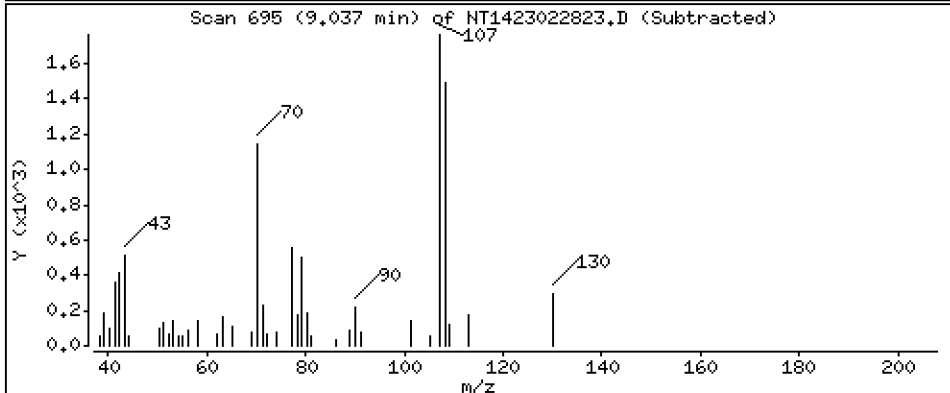
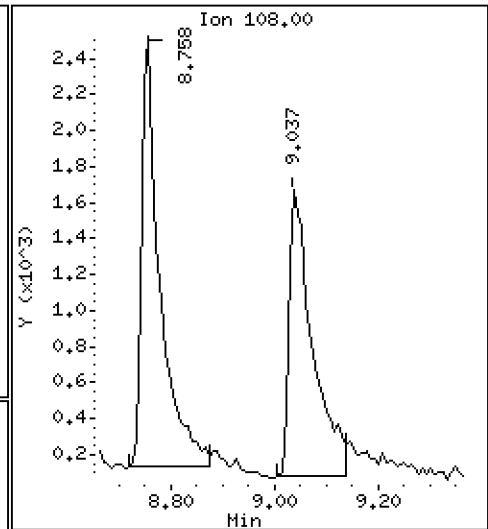
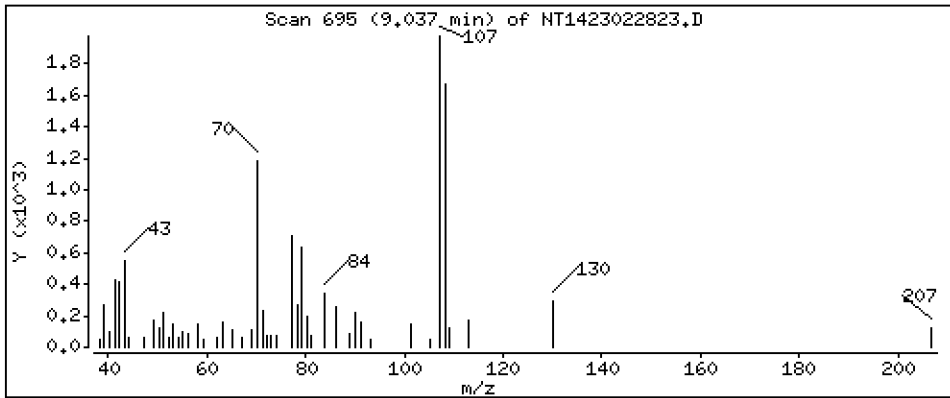
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 0.1318 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

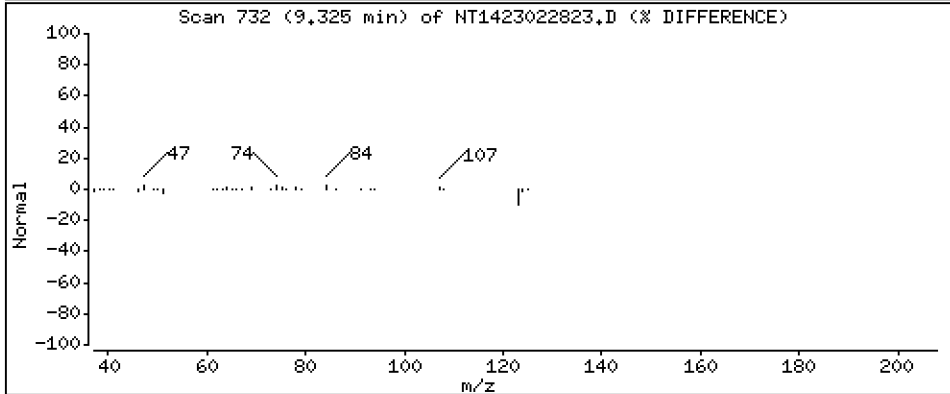
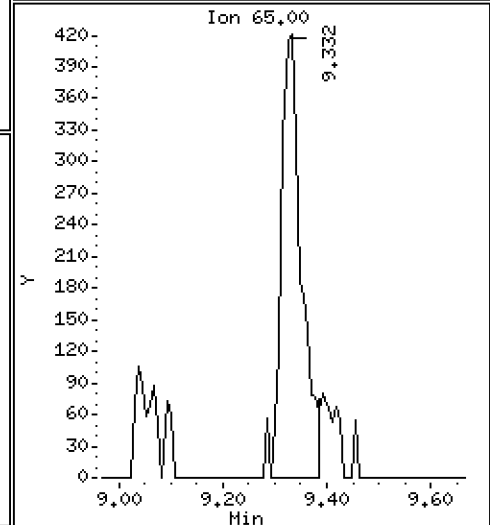
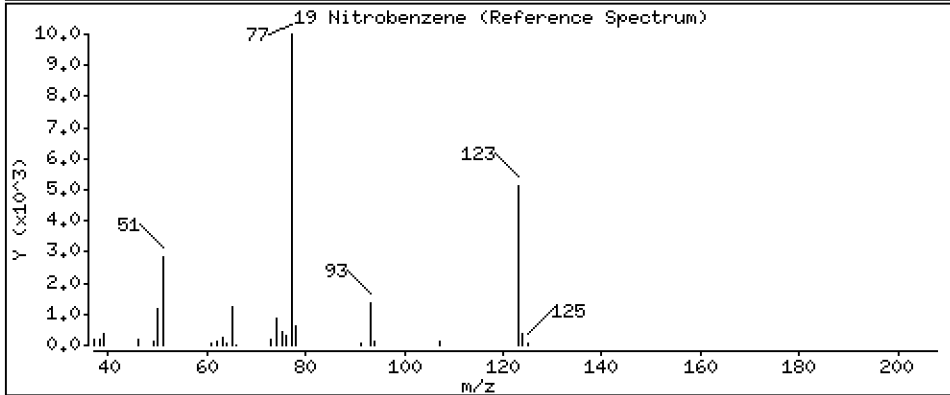
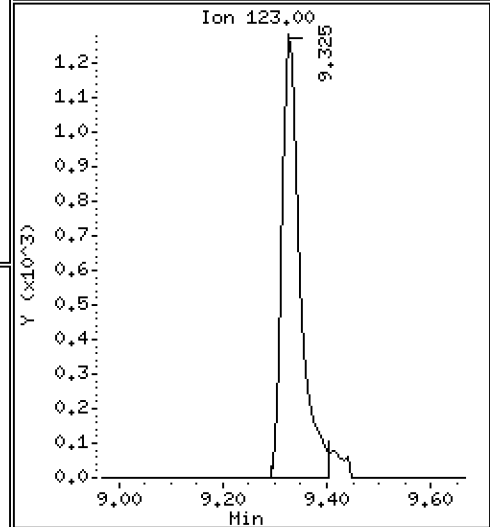
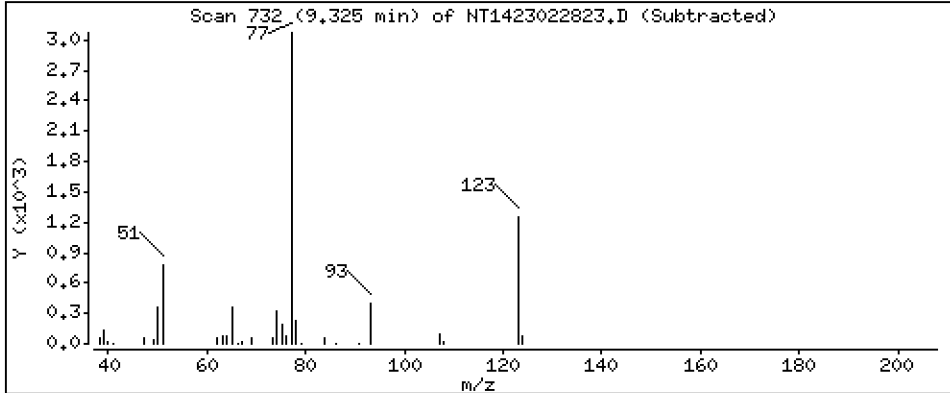
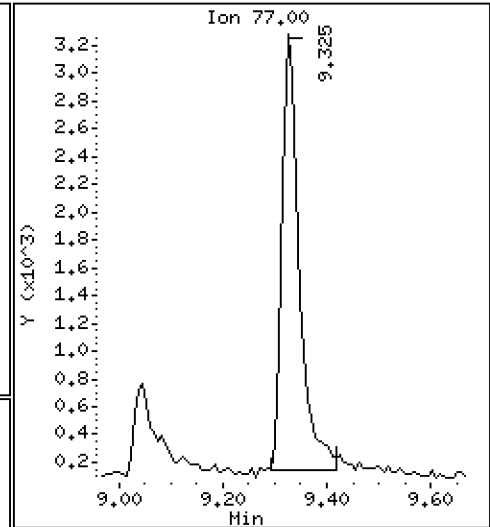
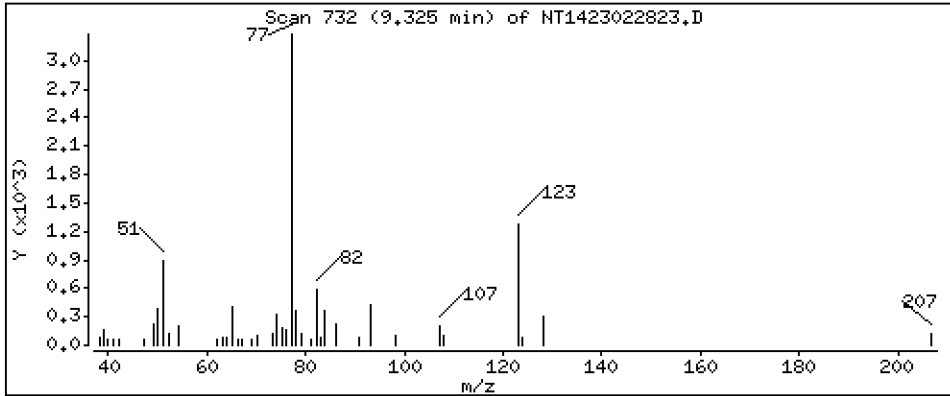
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

19 Nitrobenzene

Concentration: 0.1841 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

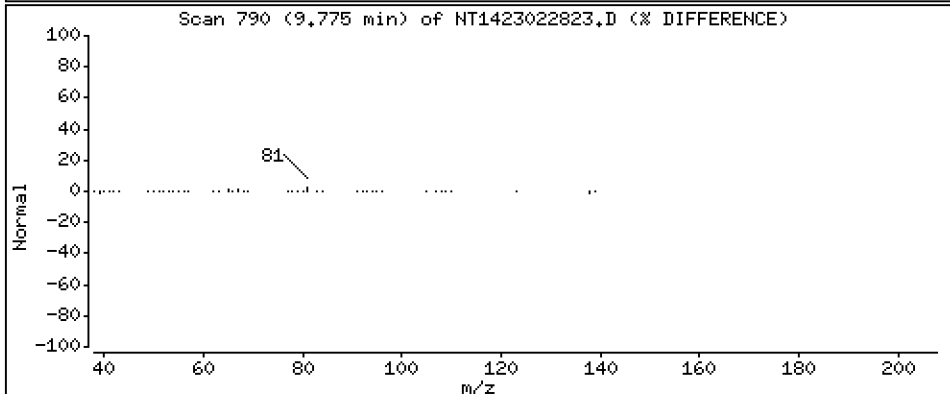
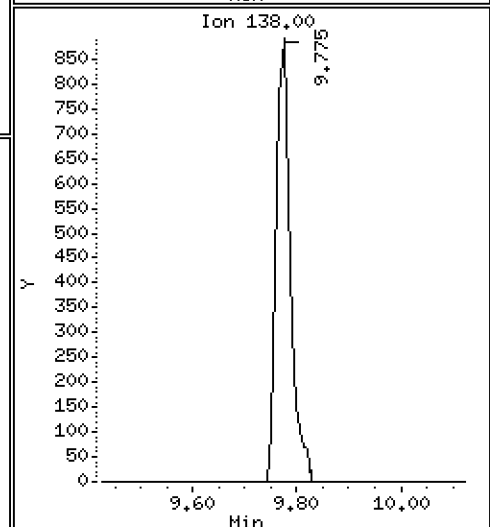
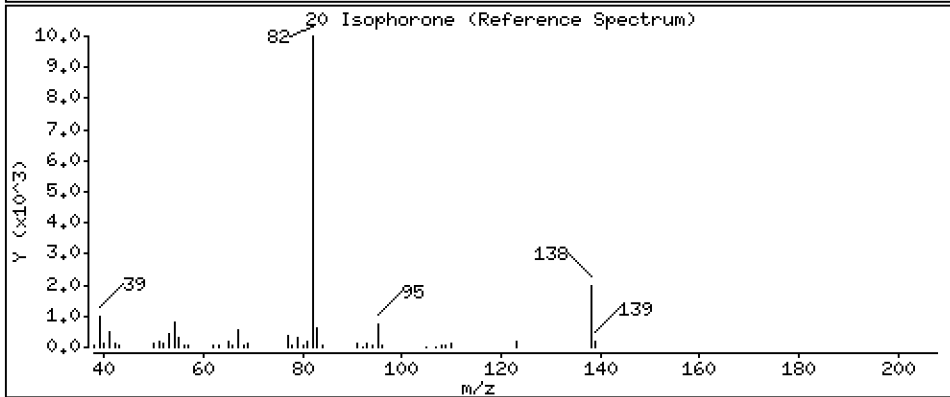
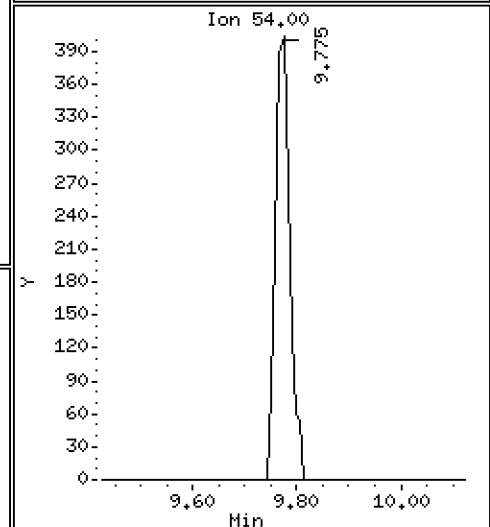
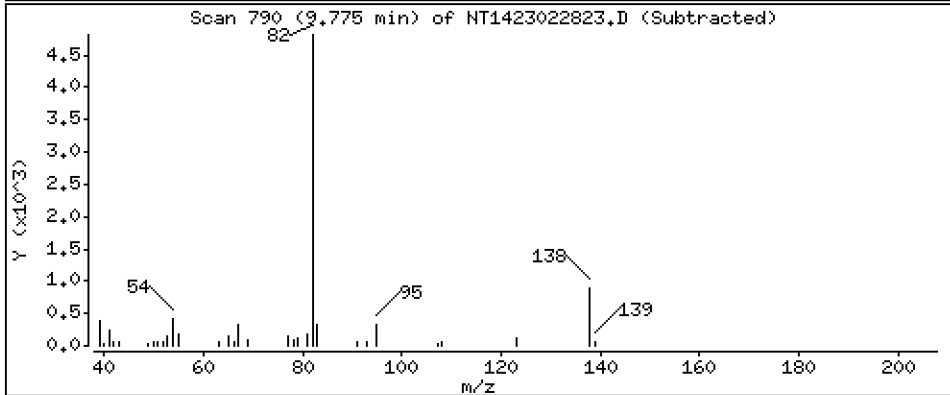
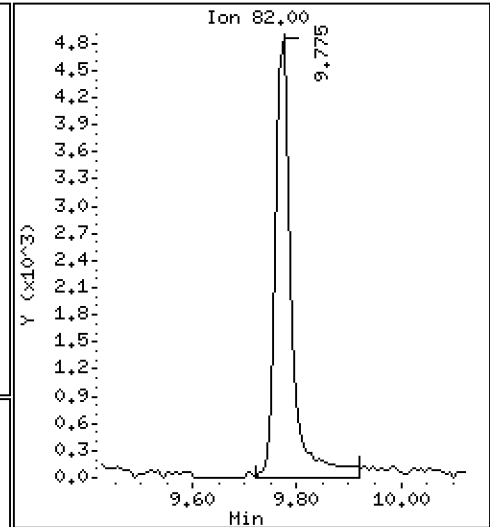
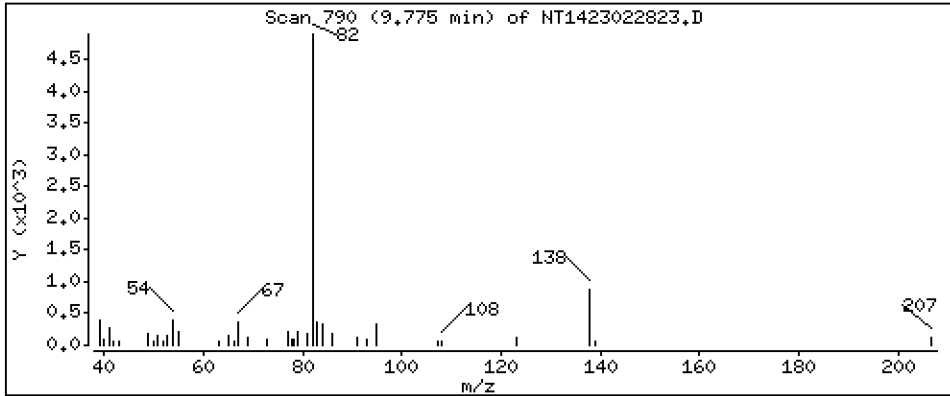
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

20 Isophorone

Concentration: 0,1811 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

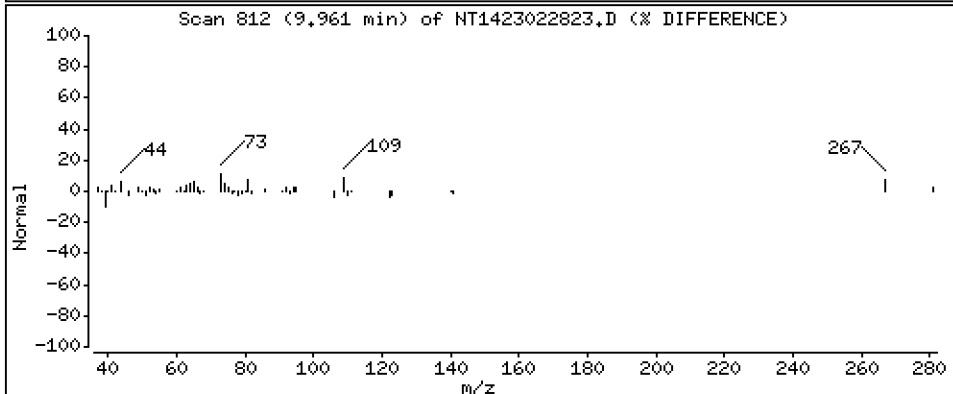
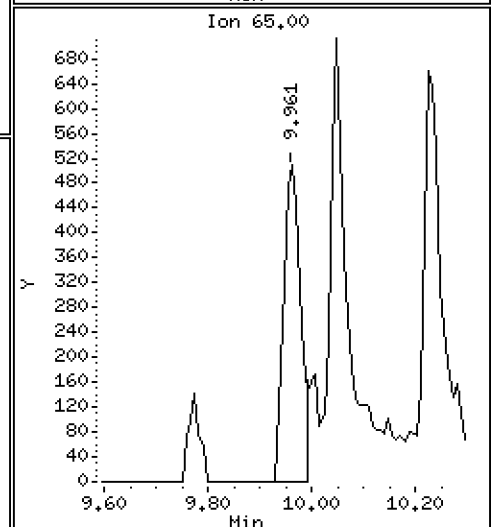
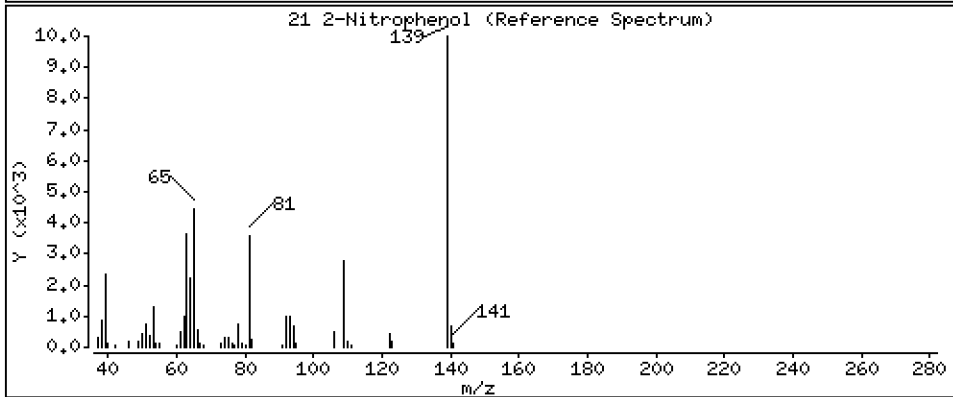
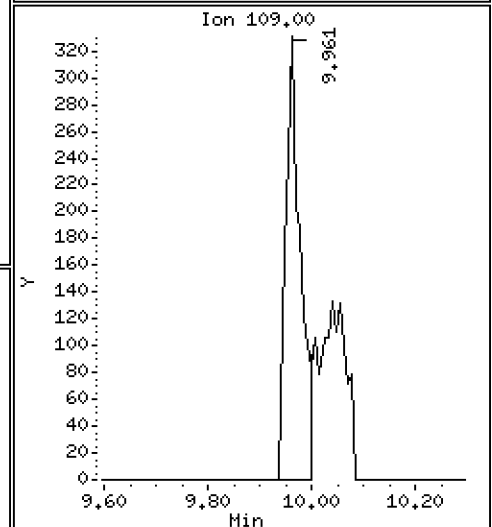
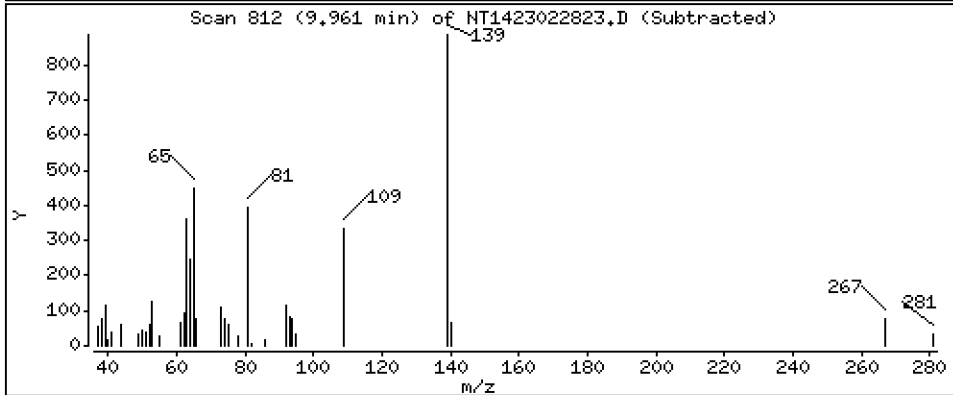
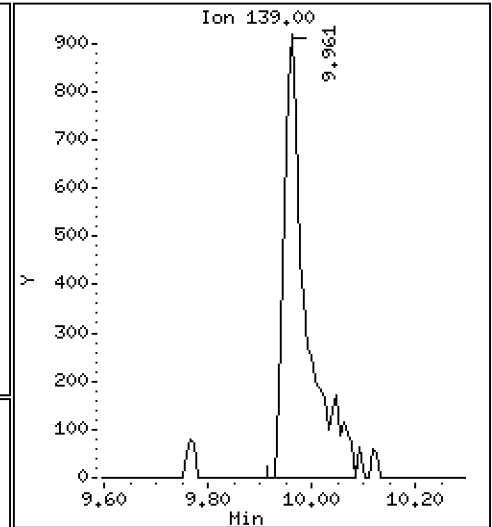
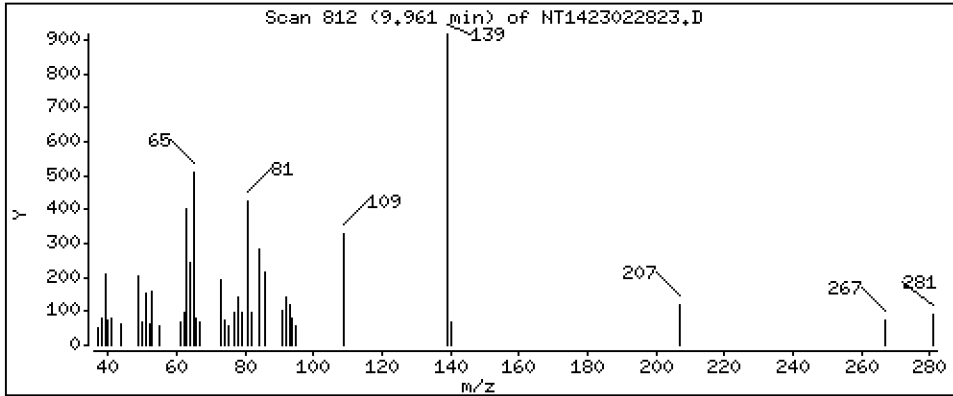
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

21 2-Nitrophenol

Concentration: 0,1380 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

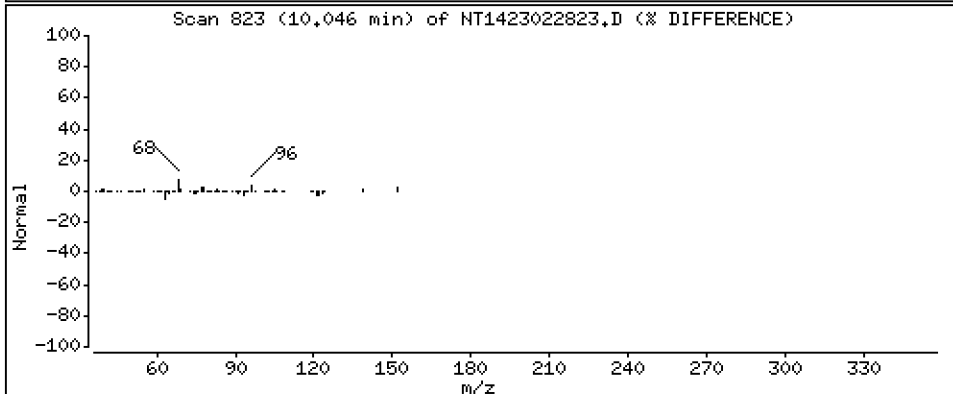
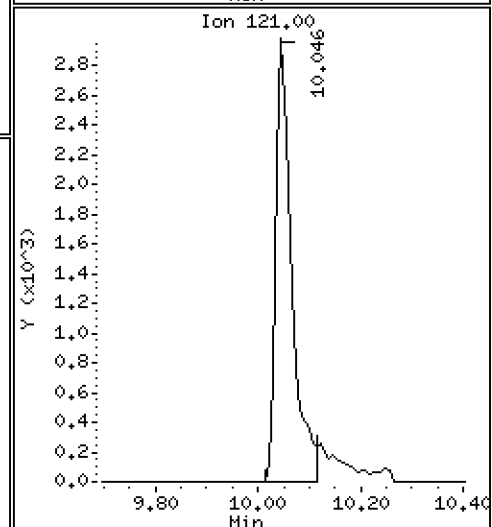
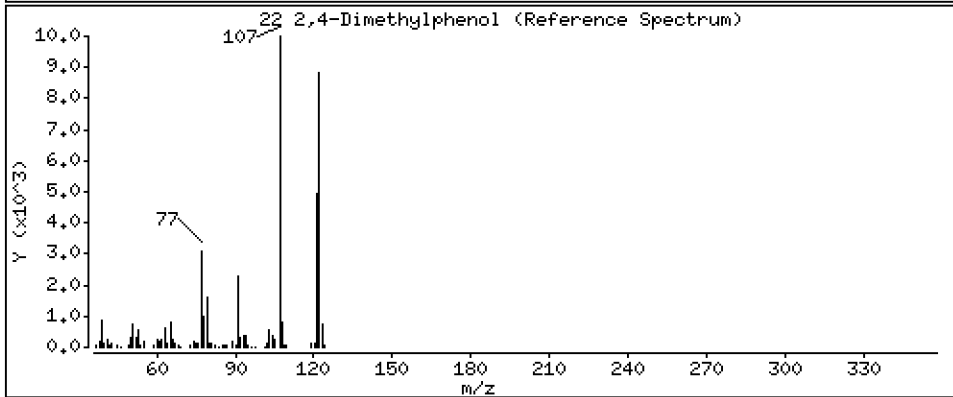
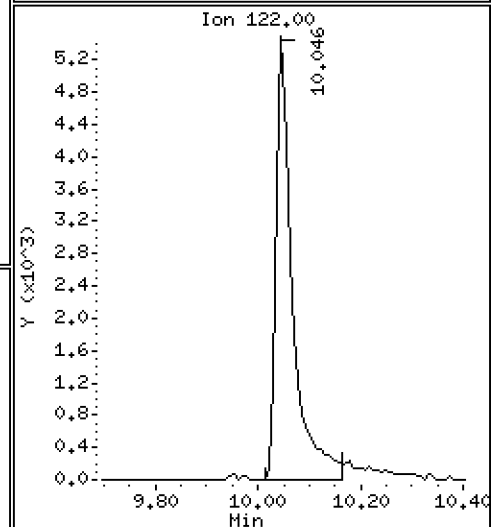
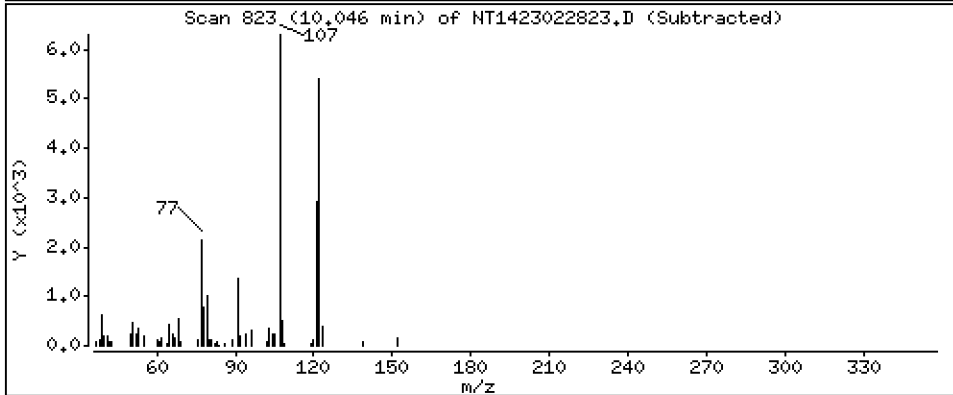
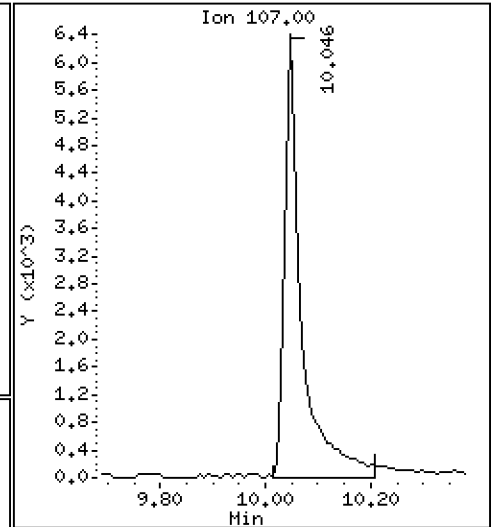
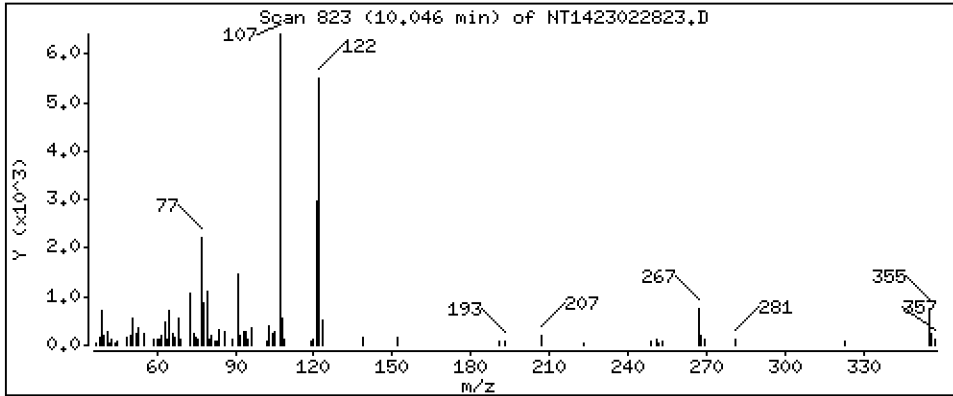
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 0,4132 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

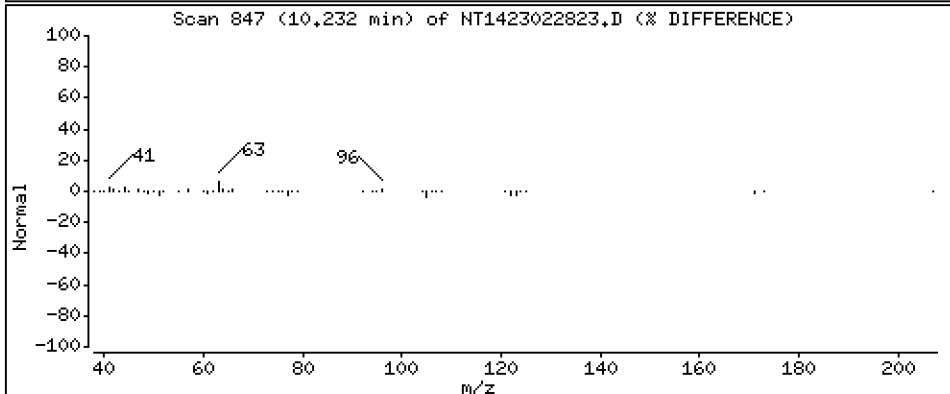
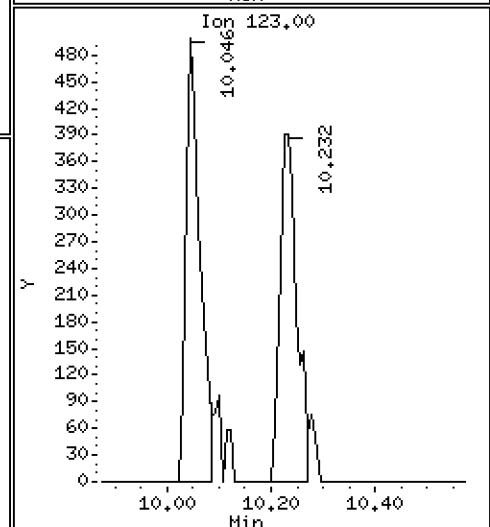
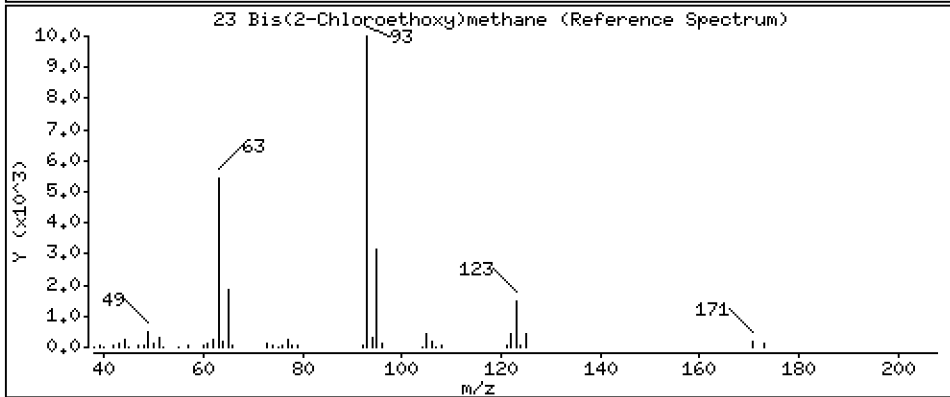
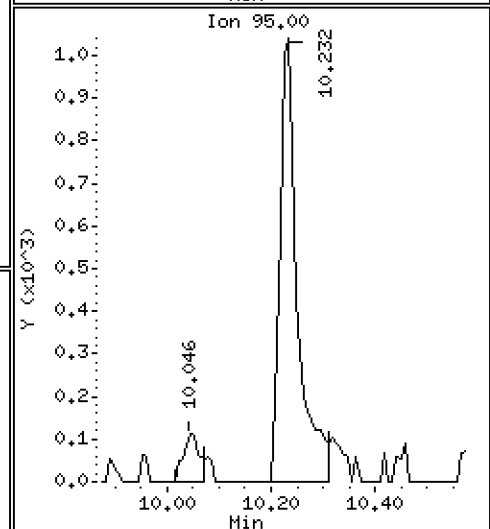
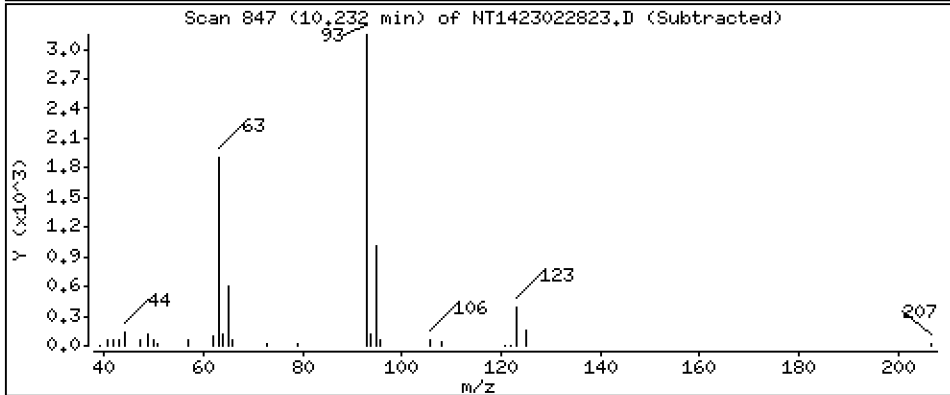
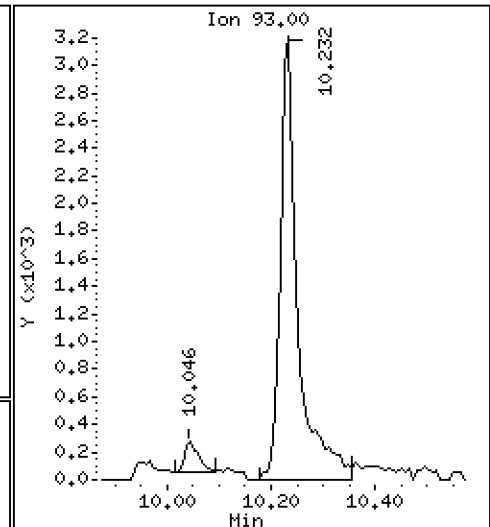
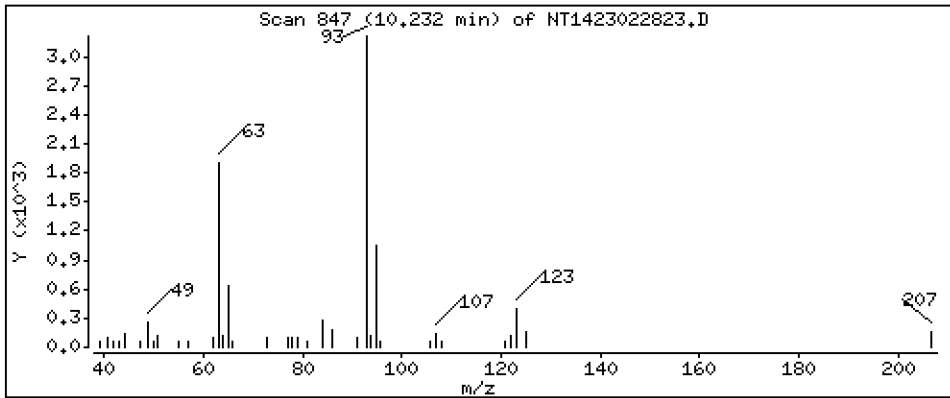
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

23 Bis(2-Chloroethoxy)methane

Concentration: 0.1957 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

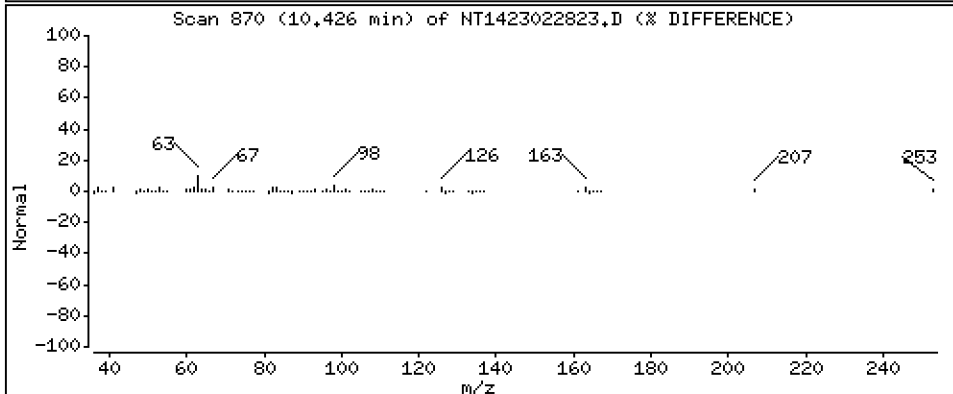
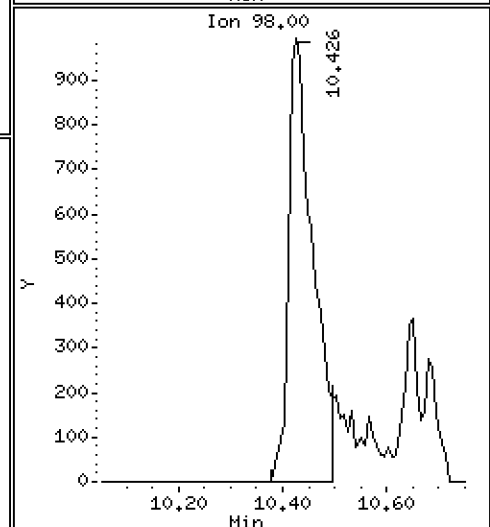
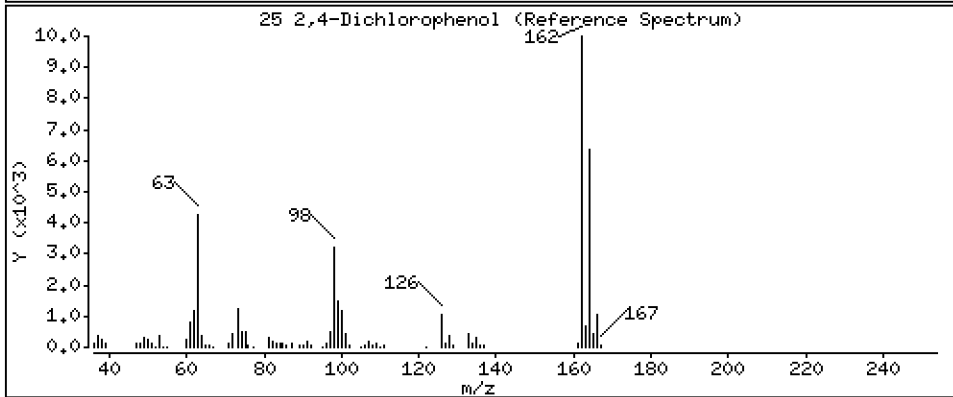
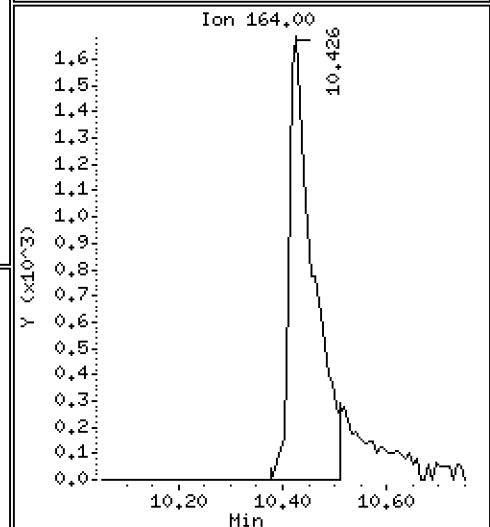
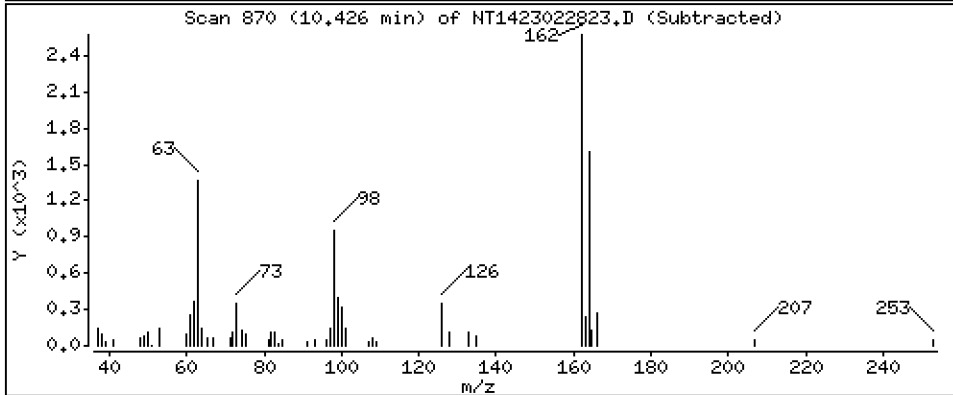
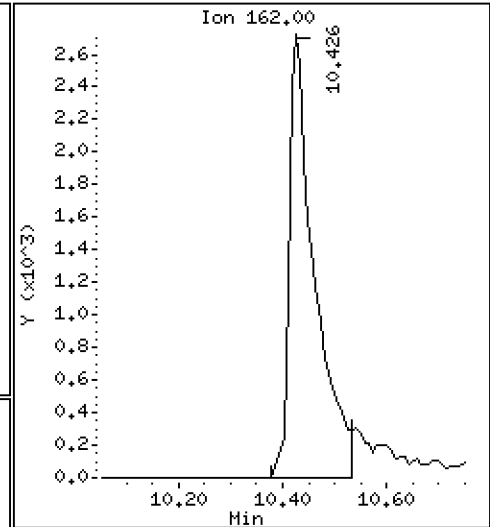
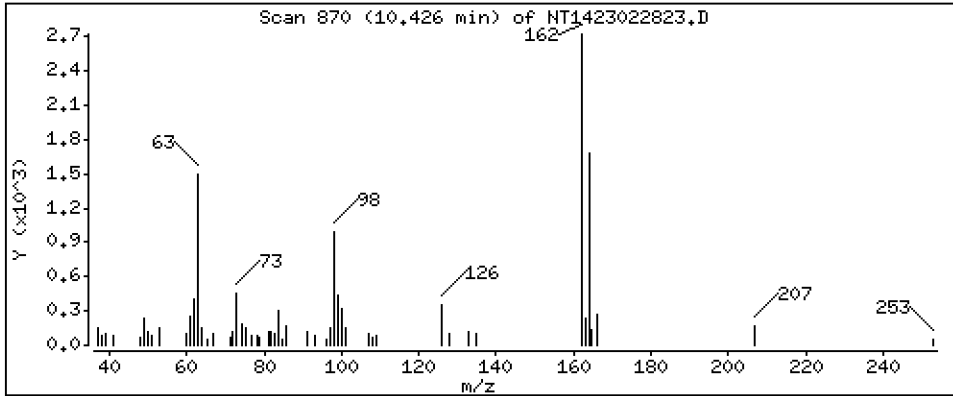
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 0,2896 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

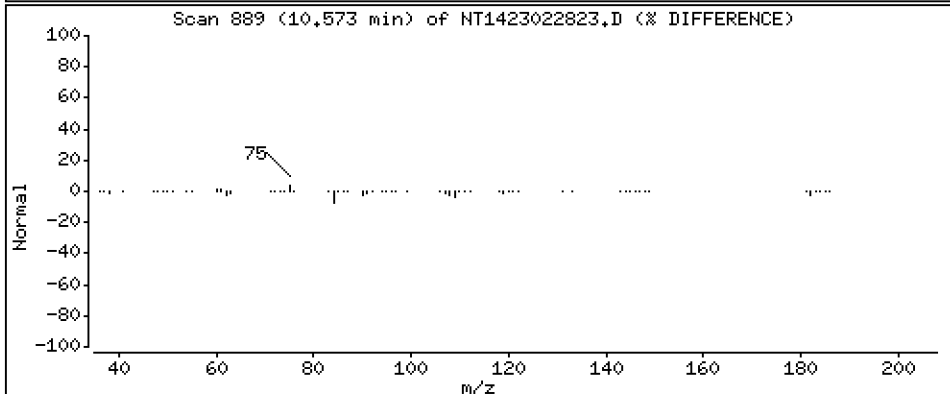
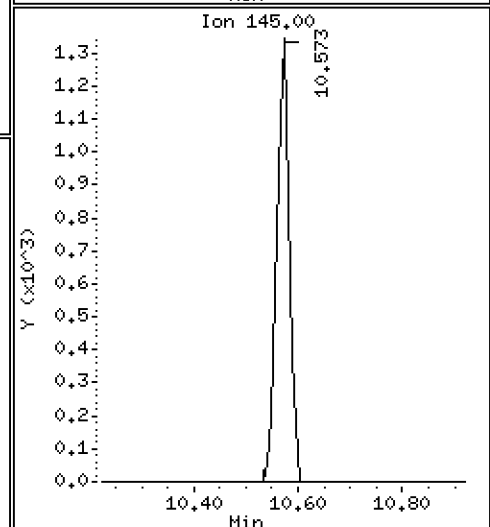
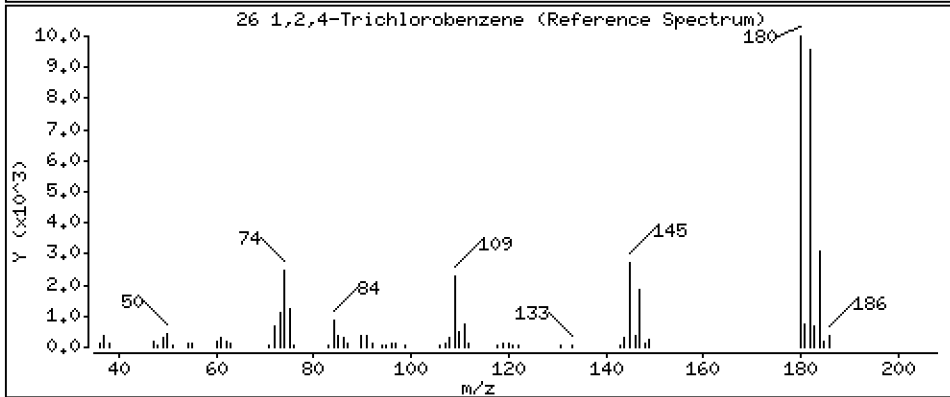
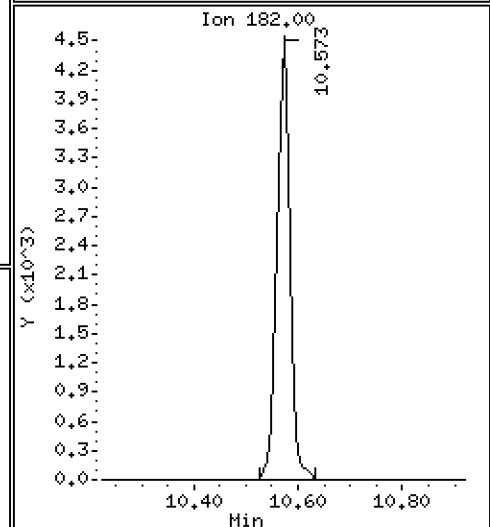
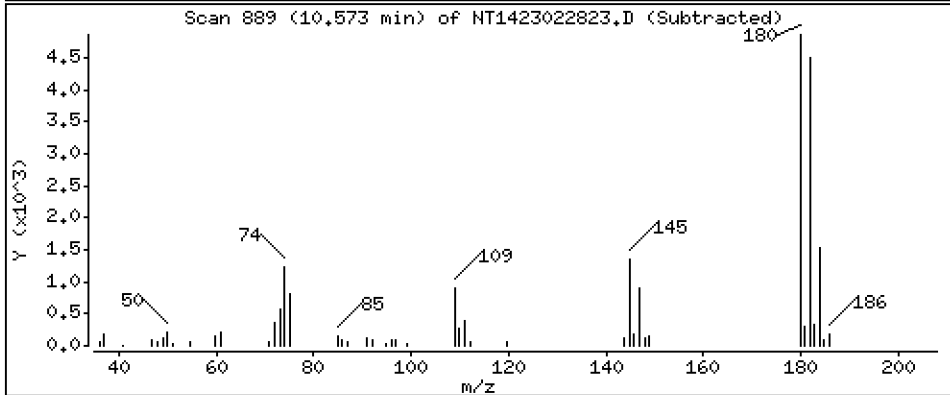
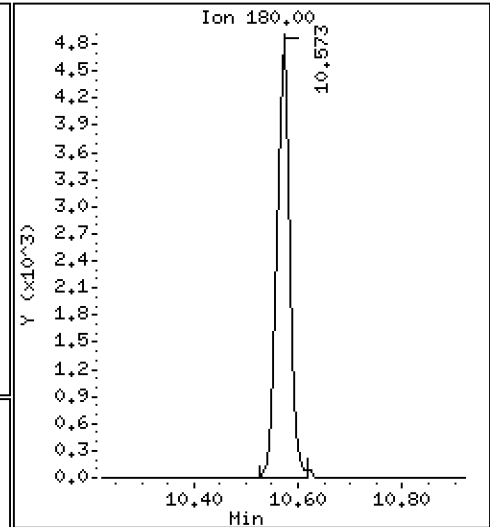
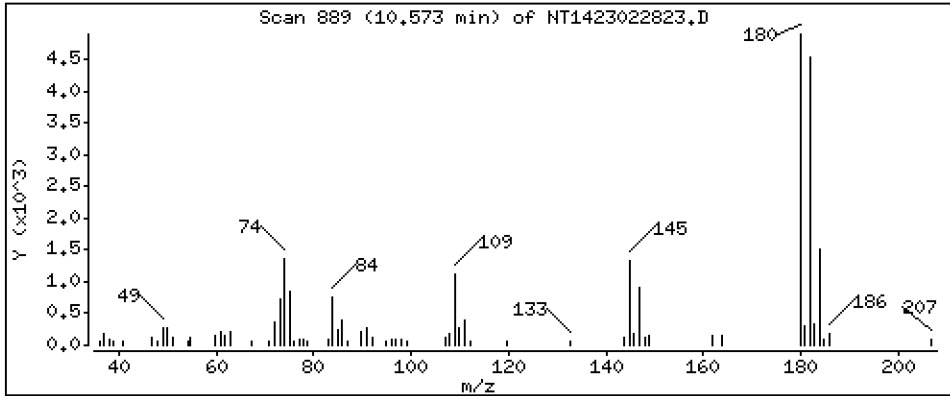
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 0,2035 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

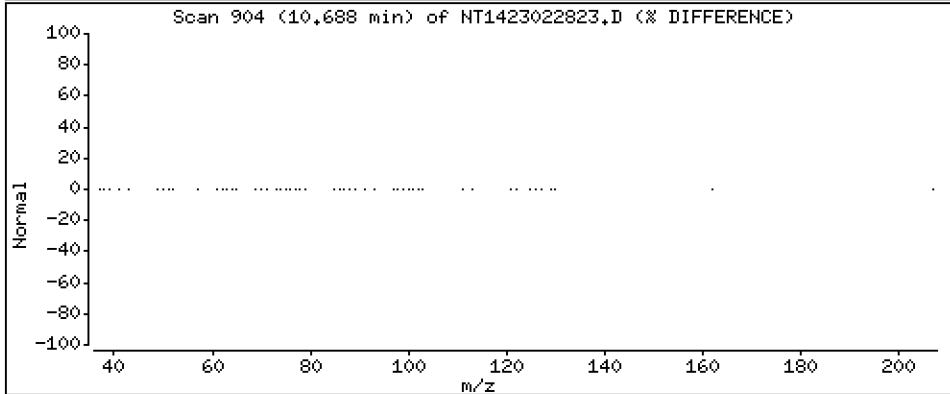
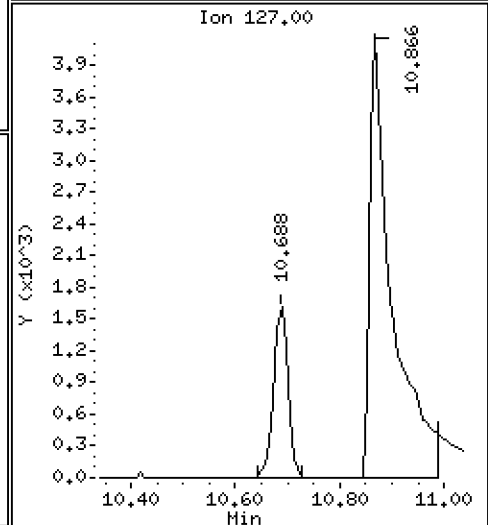
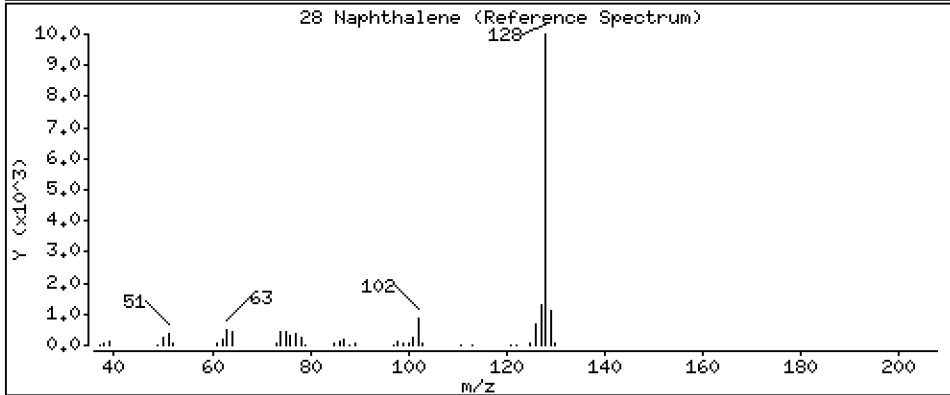
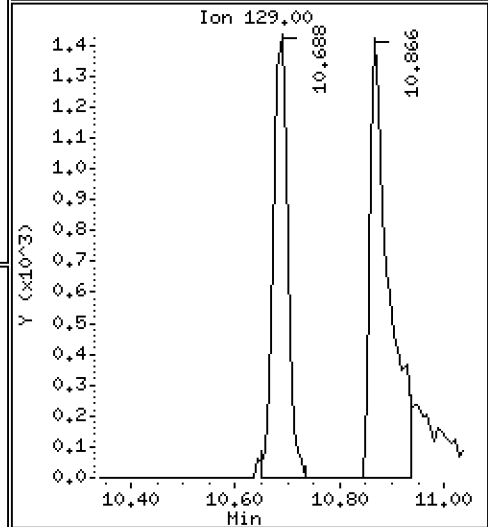
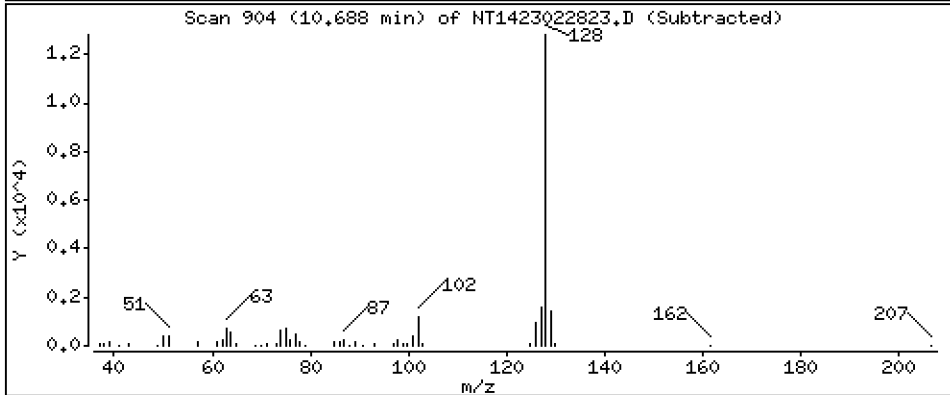
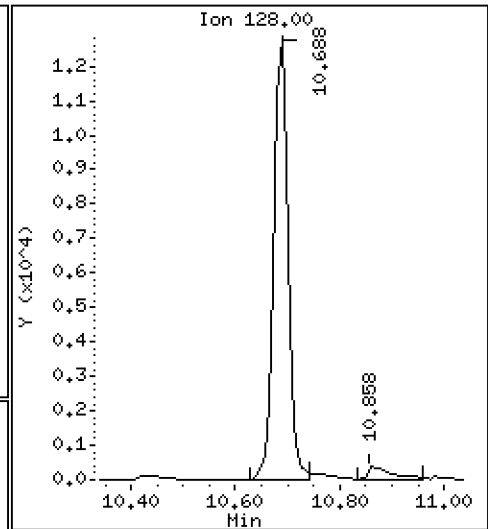
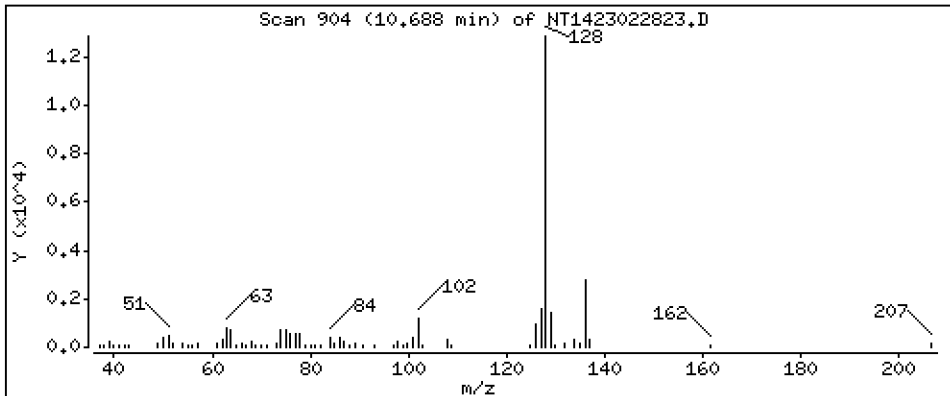
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 0,2136 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

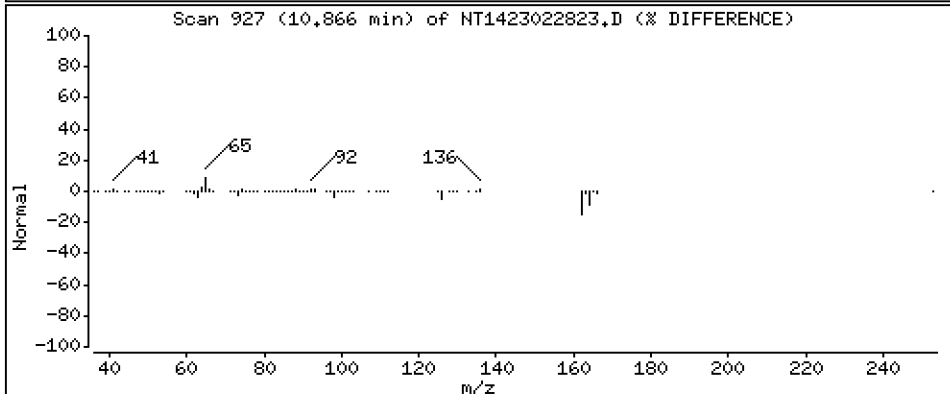
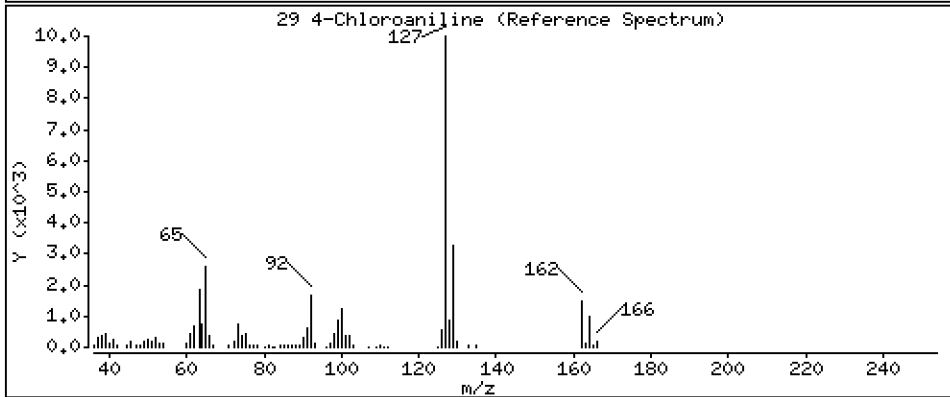
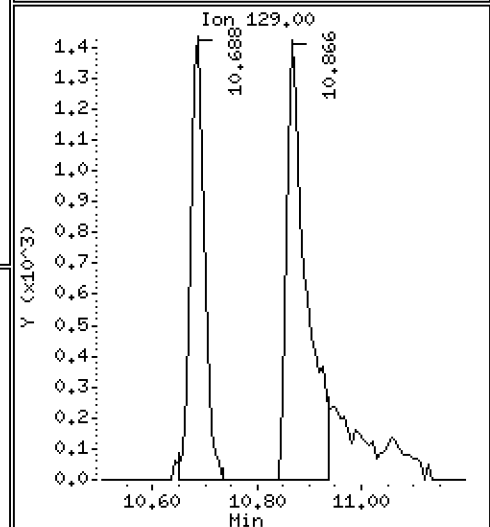
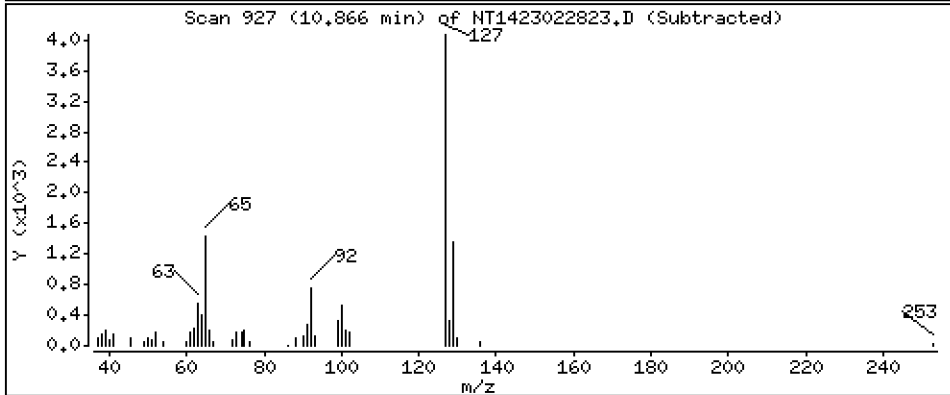
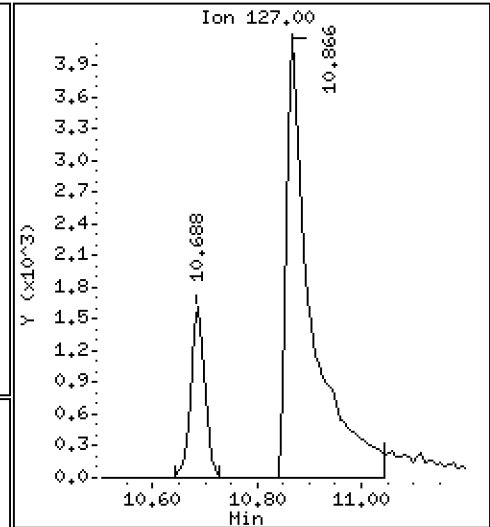
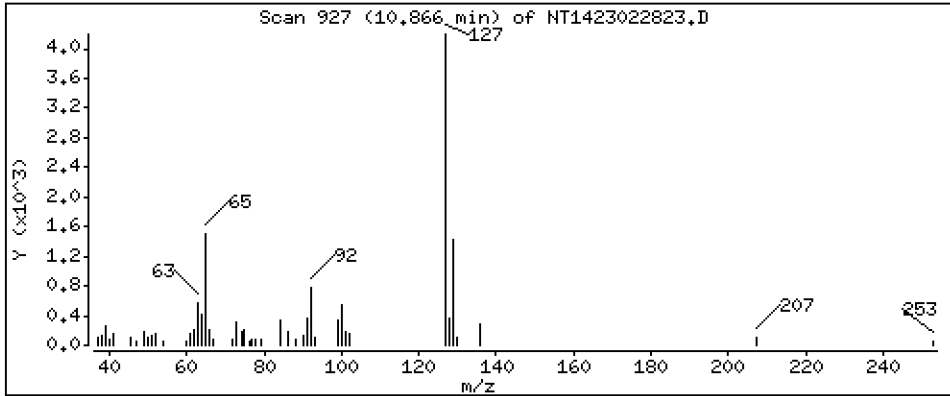
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

29 4-Chloroaniline

Concentration: 0,3143 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

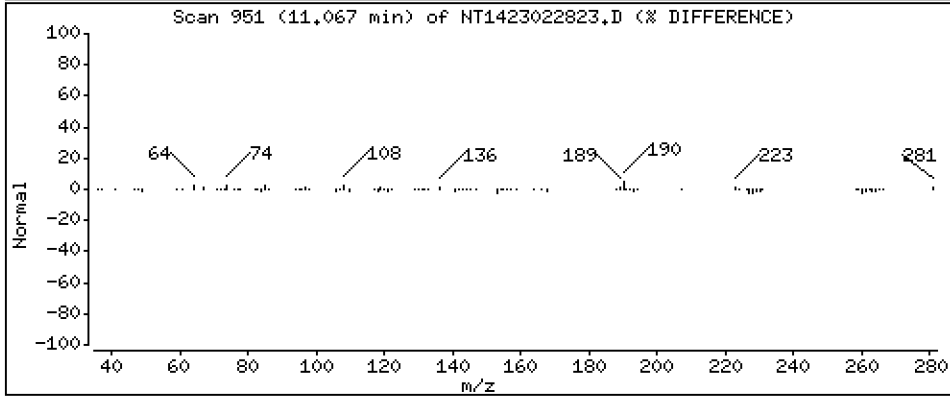
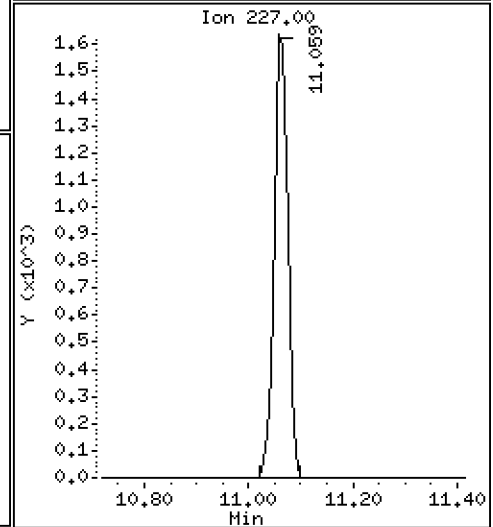
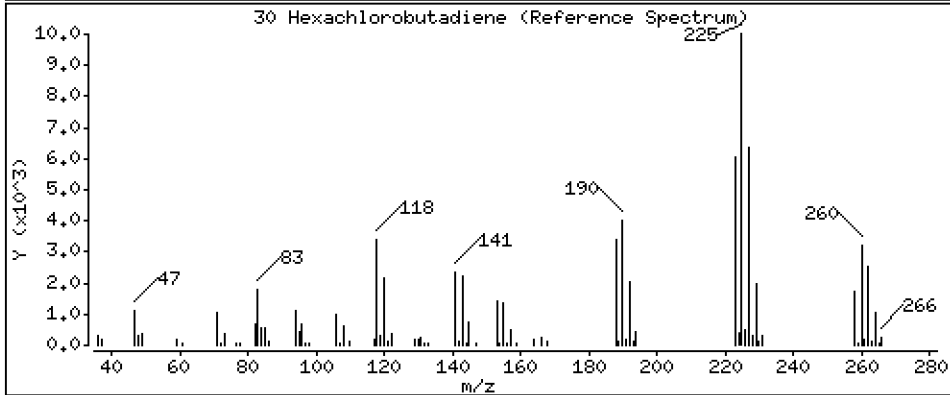
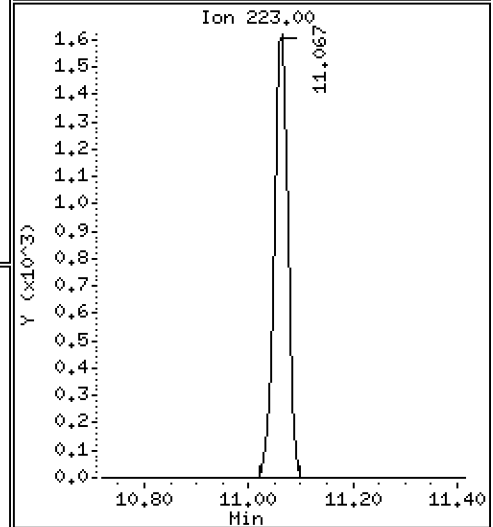
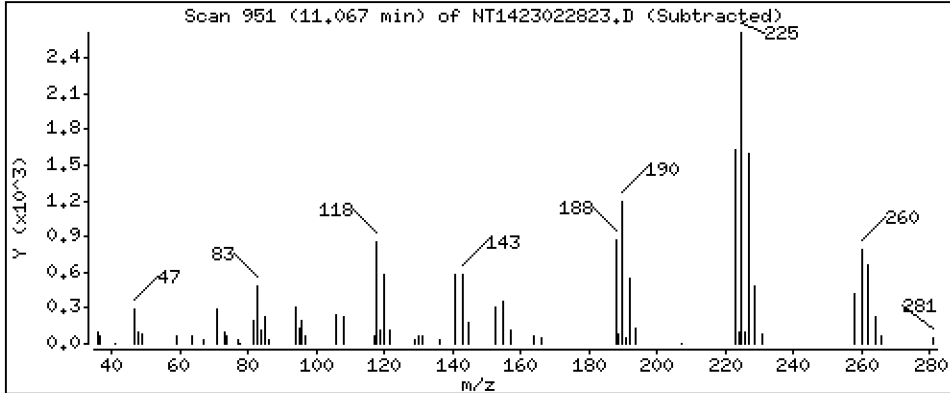
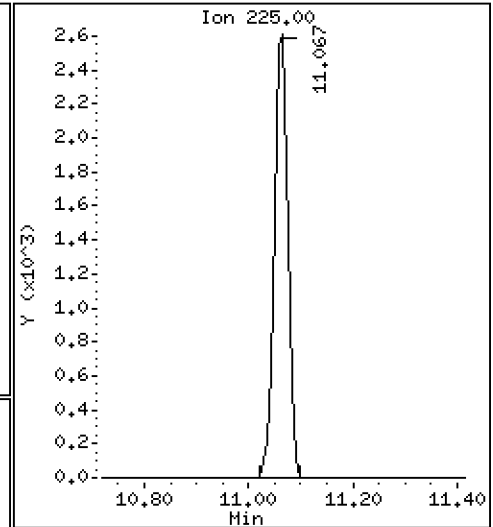
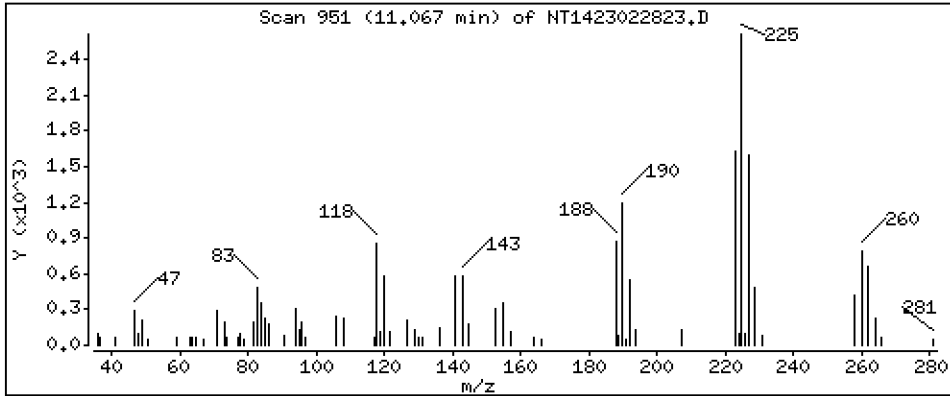
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 0,1874 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

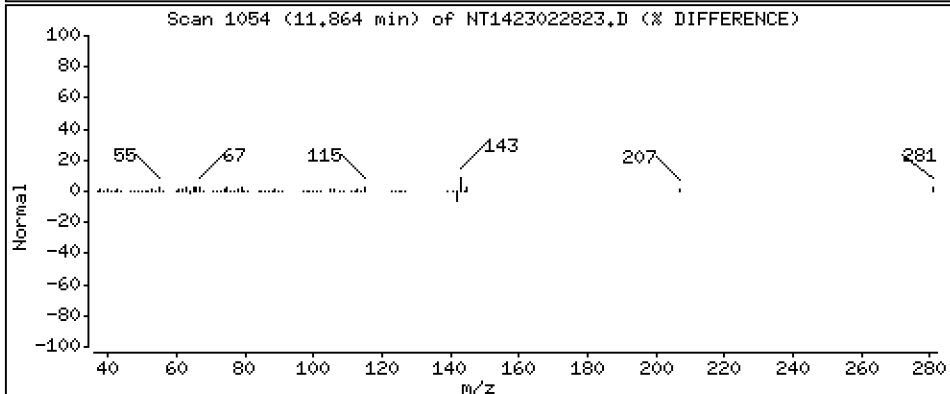
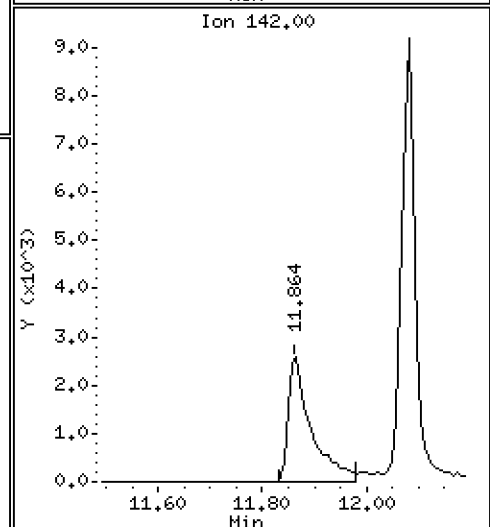
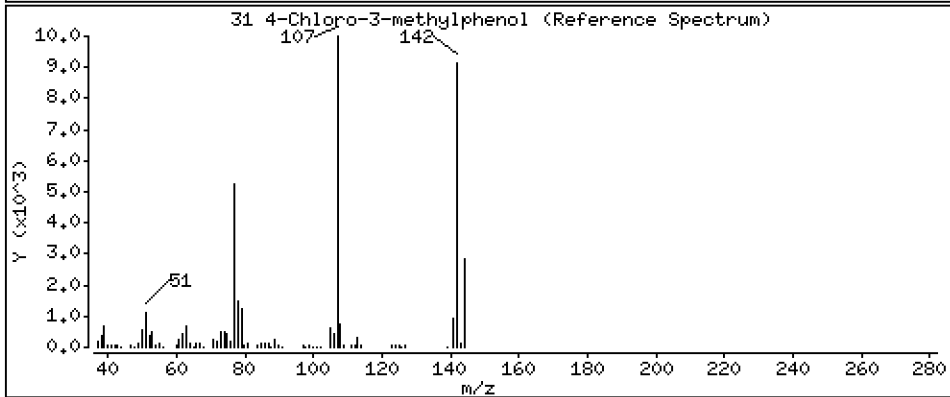
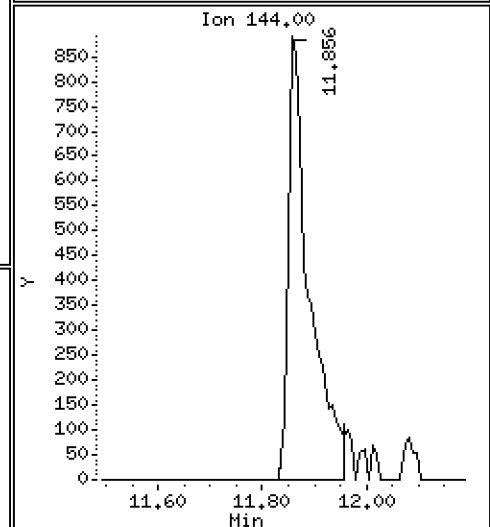
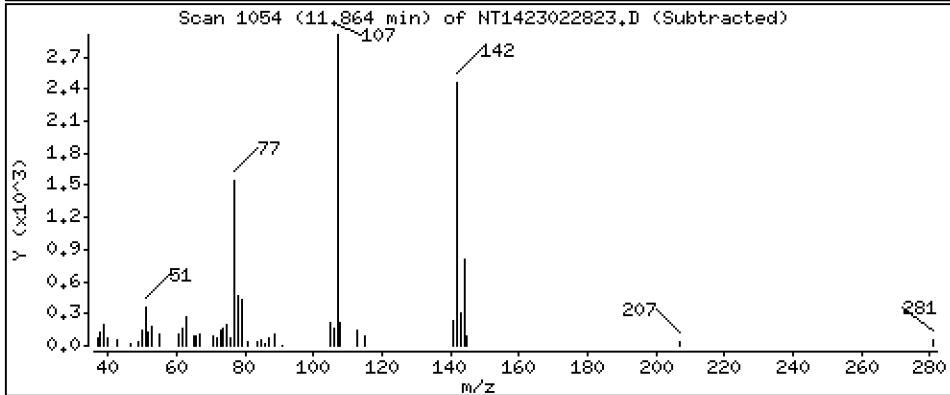
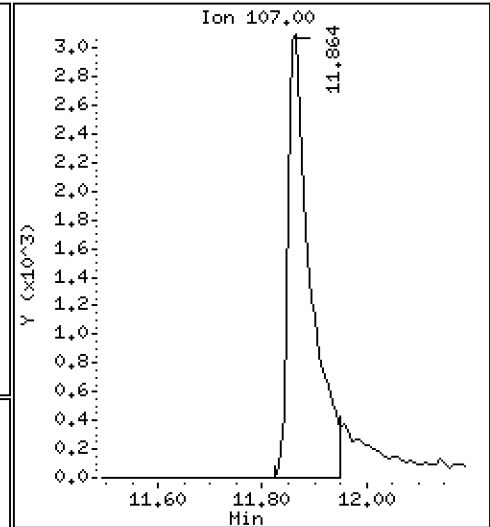
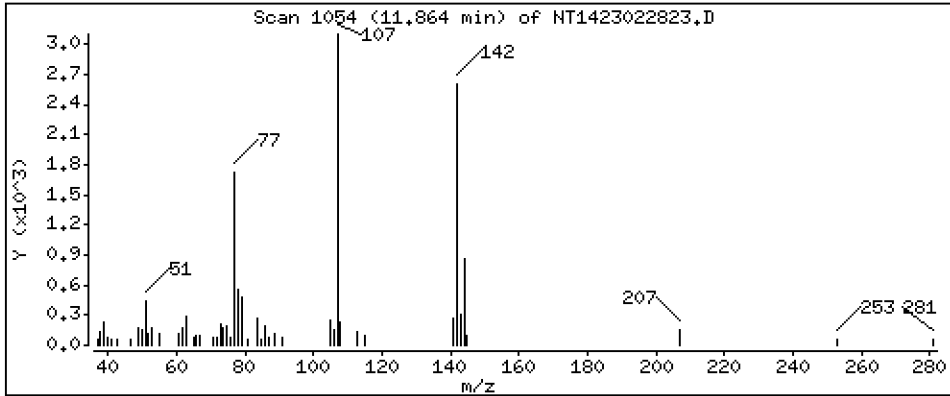
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

31 4-Chloro-3-methylphenol

Concentration: 0.3044 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

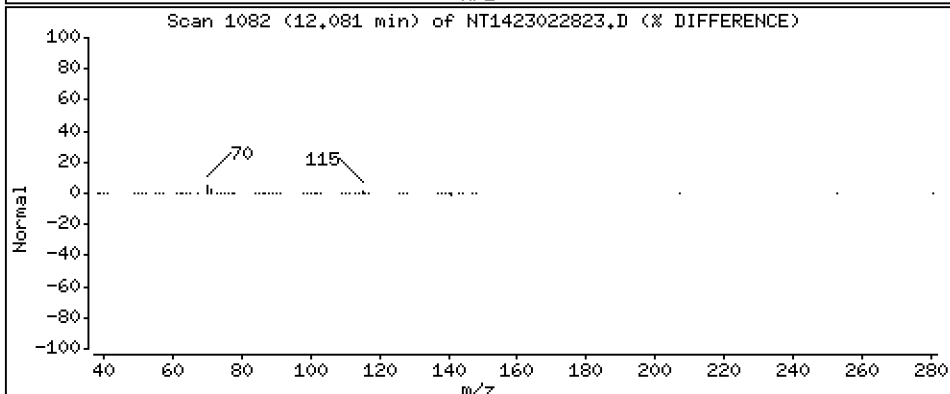
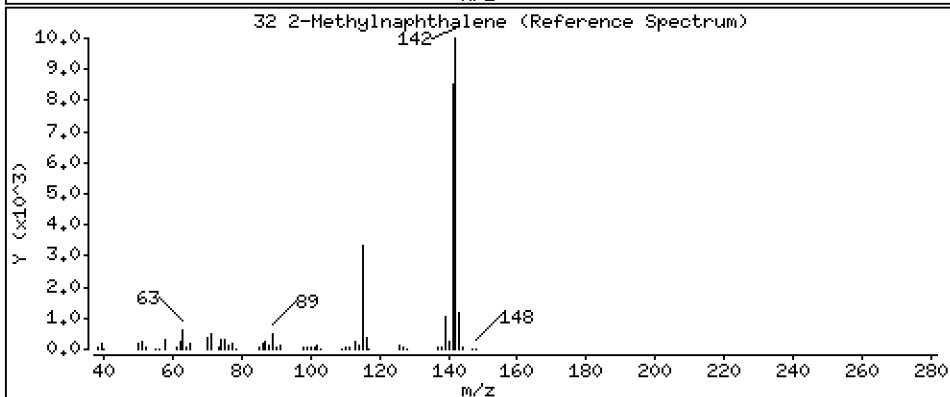
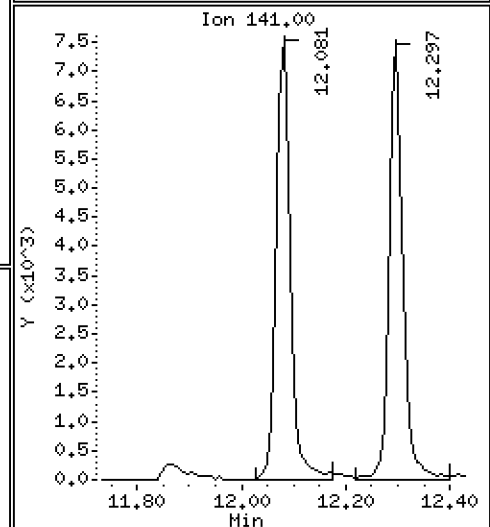
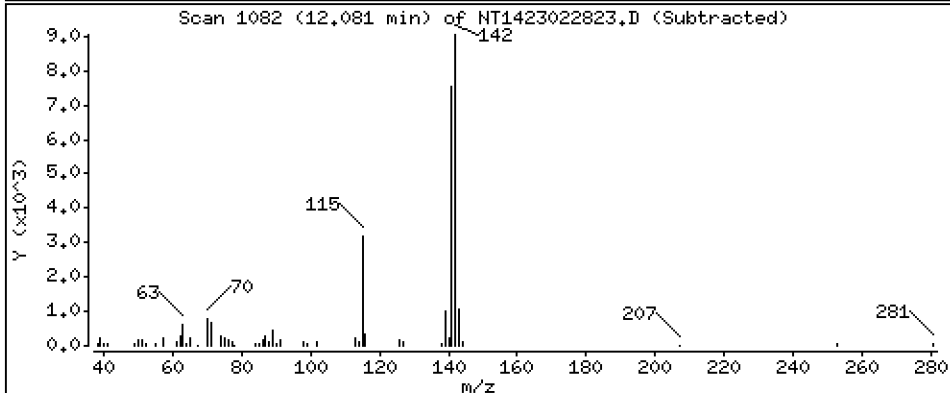
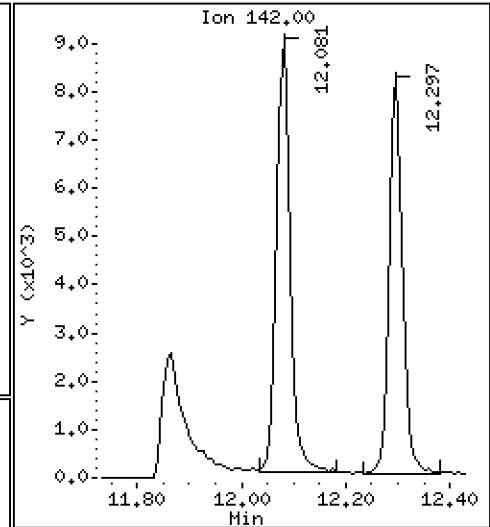
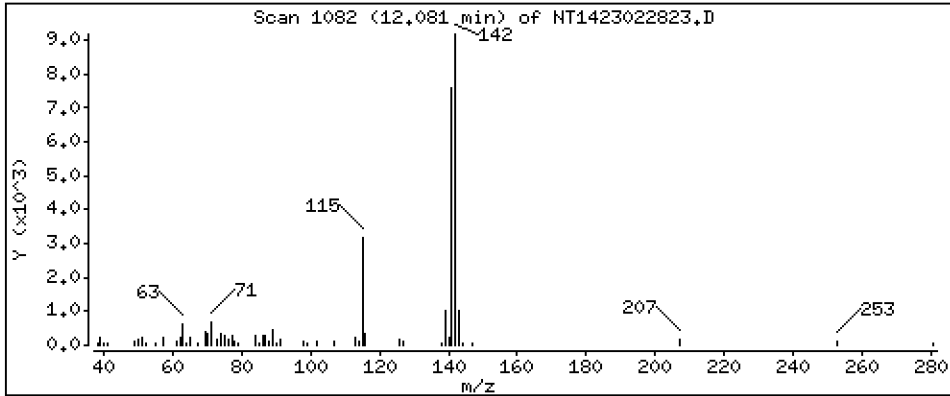
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 0,1941 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

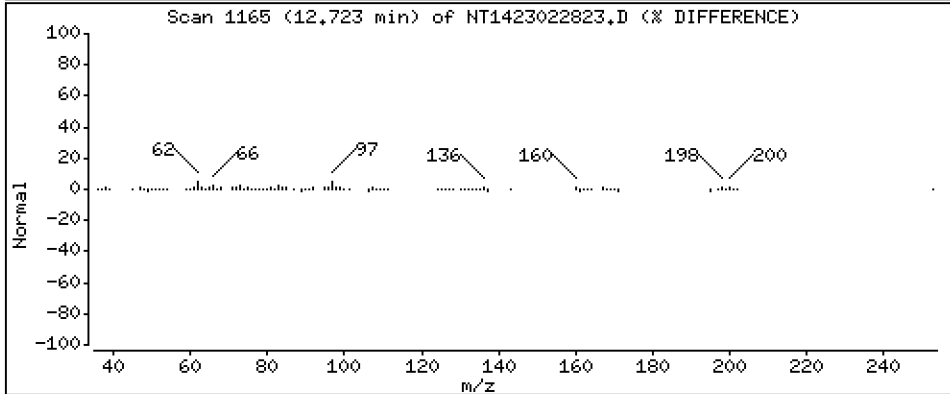
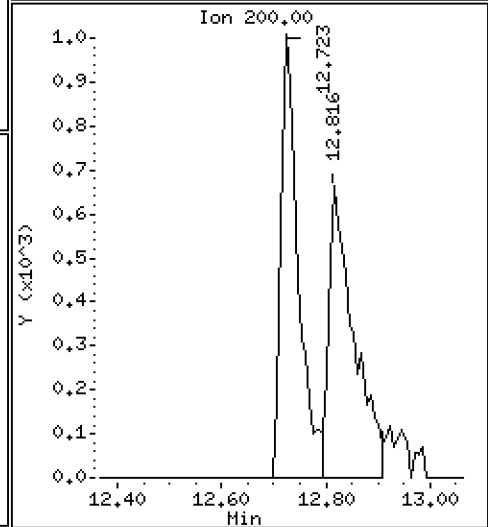
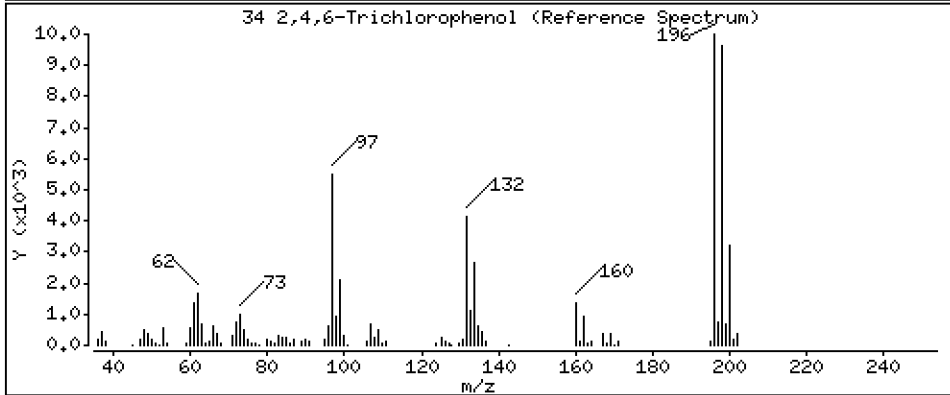
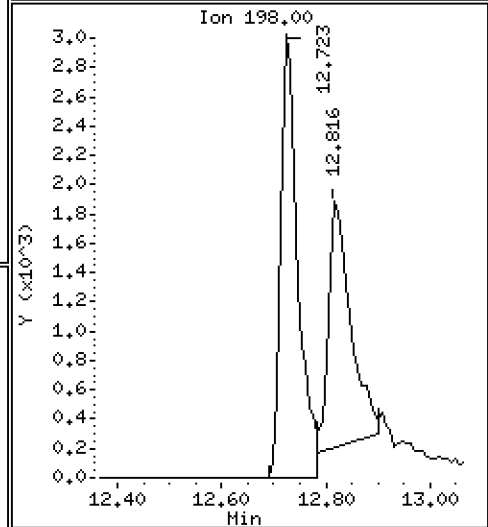
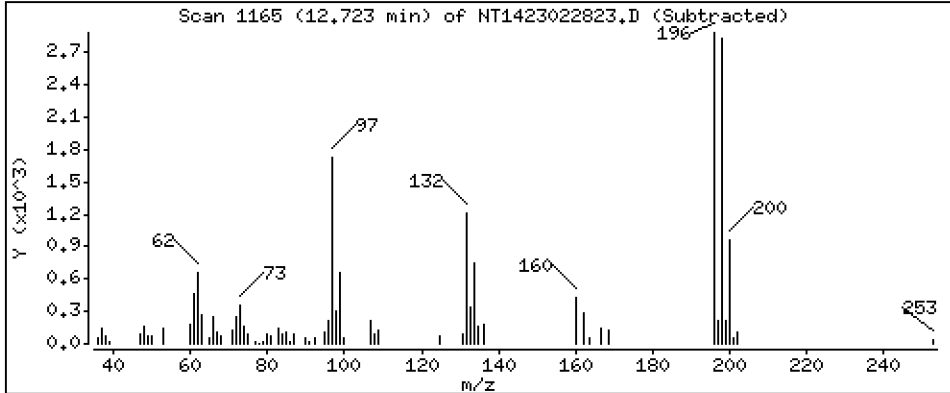
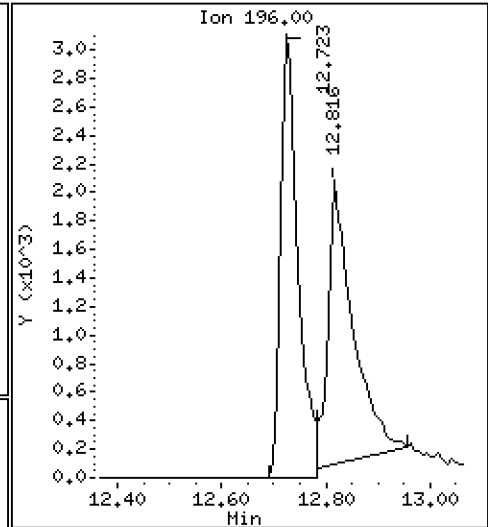
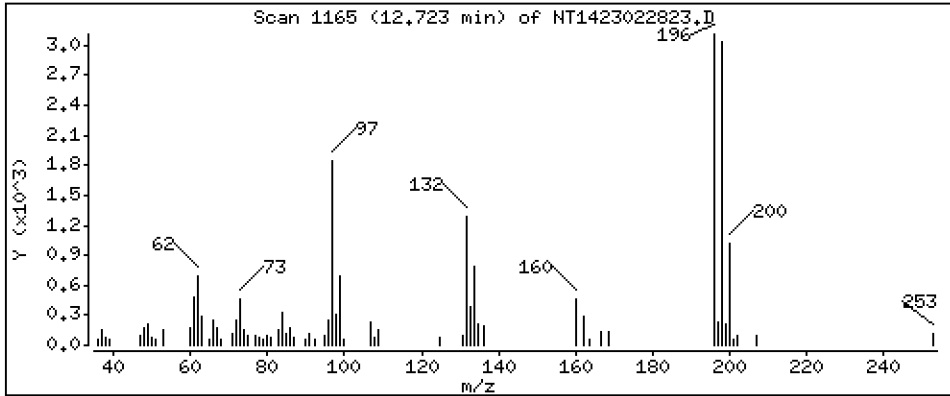
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

34 2,4,6-Trichlorophenol

Concentration: 0,3126 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

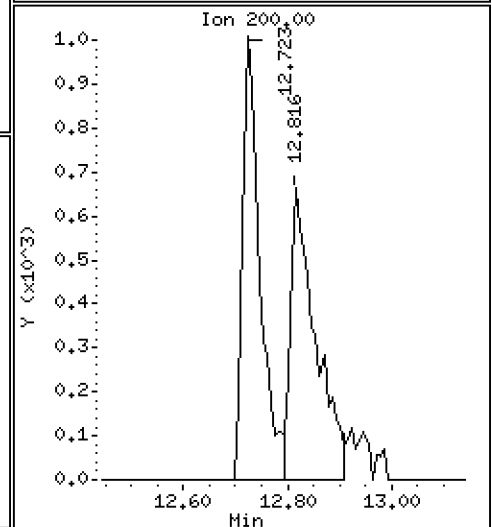
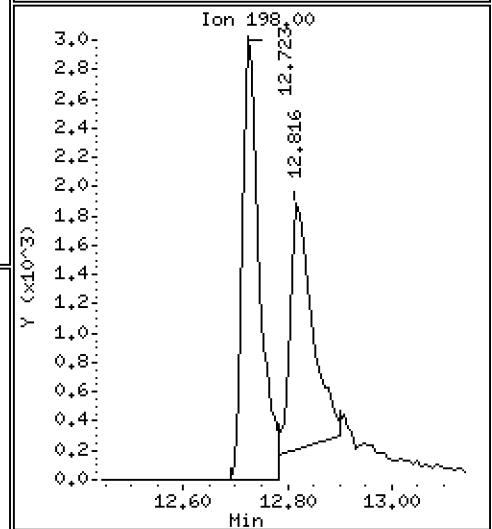
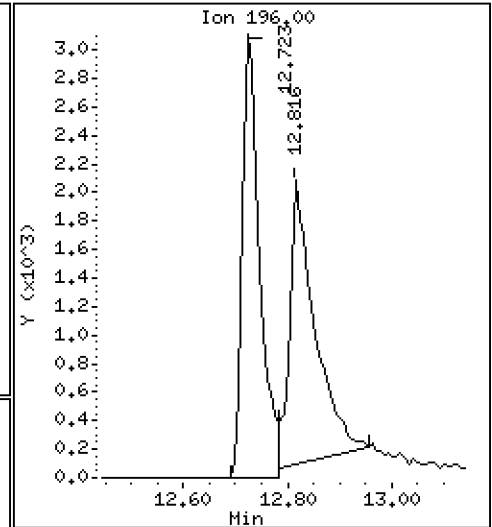
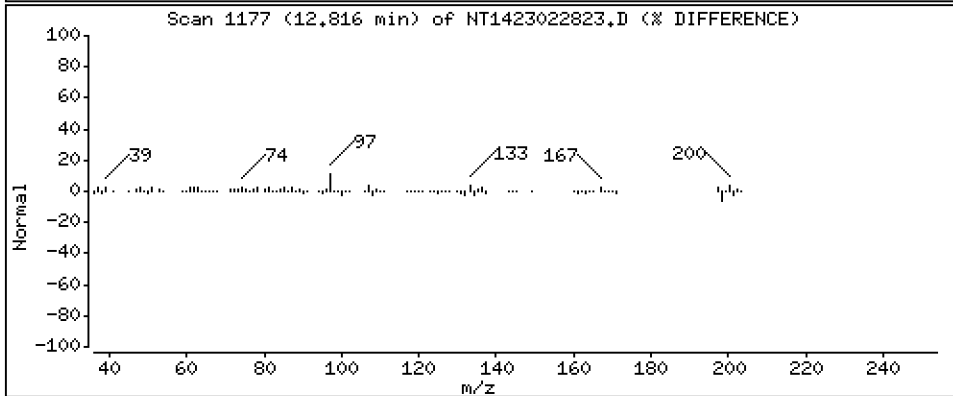
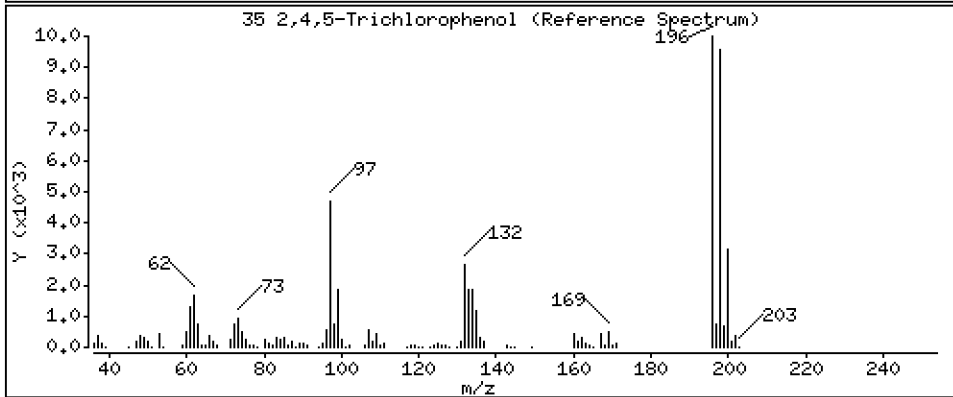
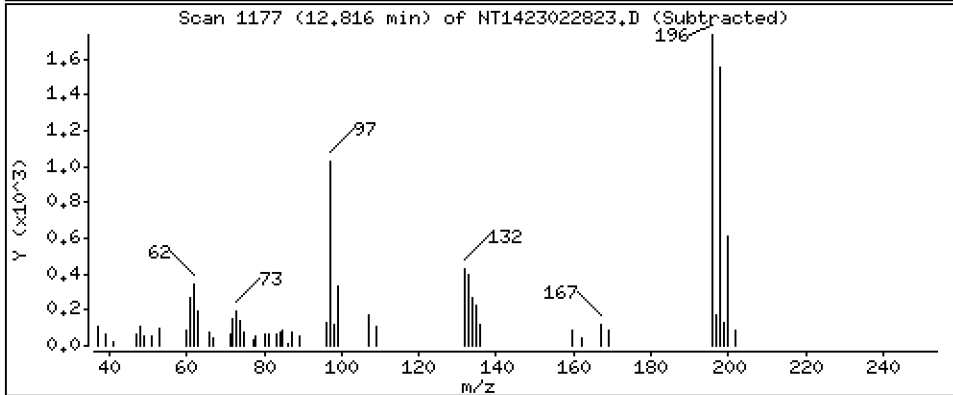
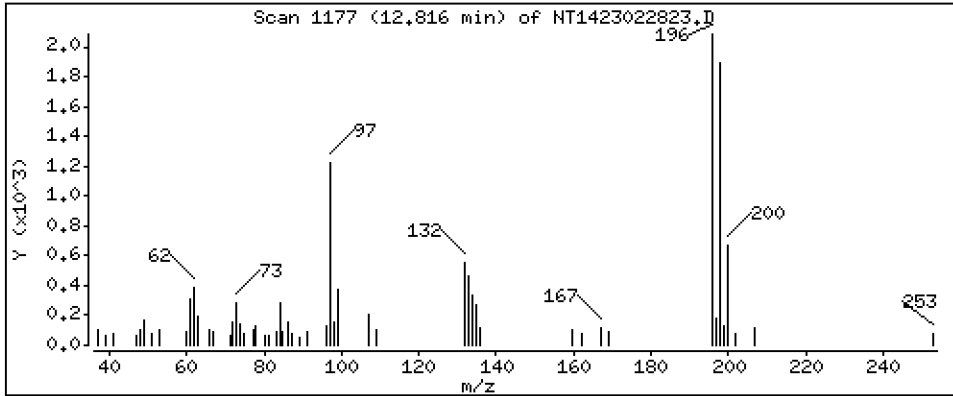
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

35 2,4,5-Trichlorophenol

Concentration: 0,2764 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

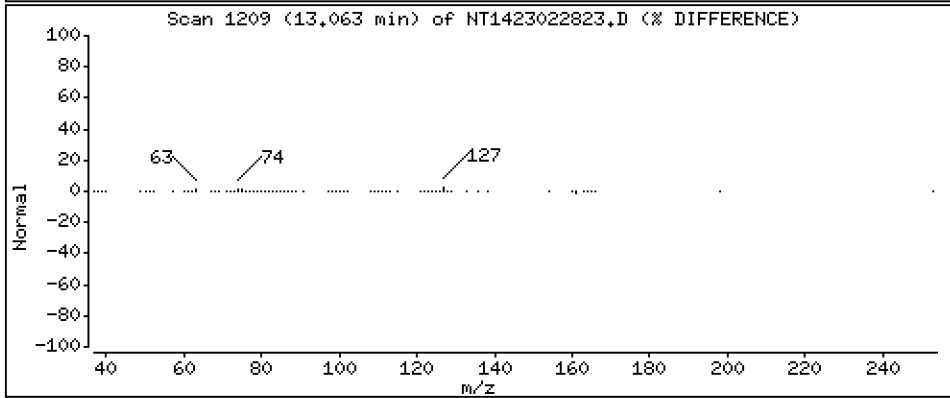
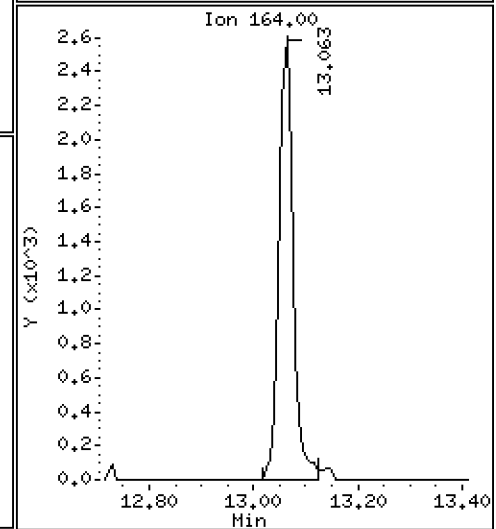
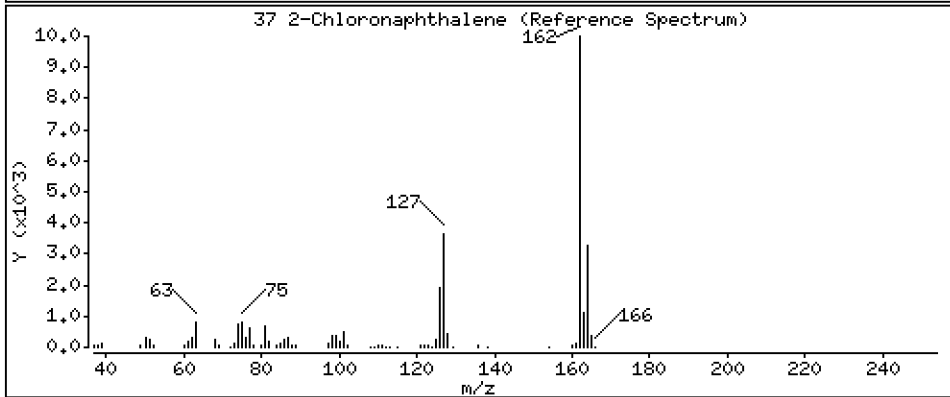
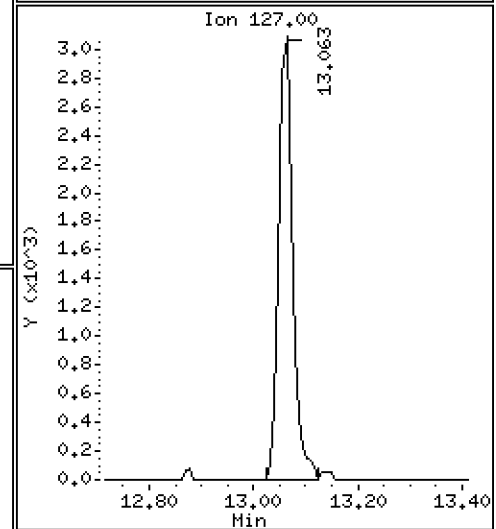
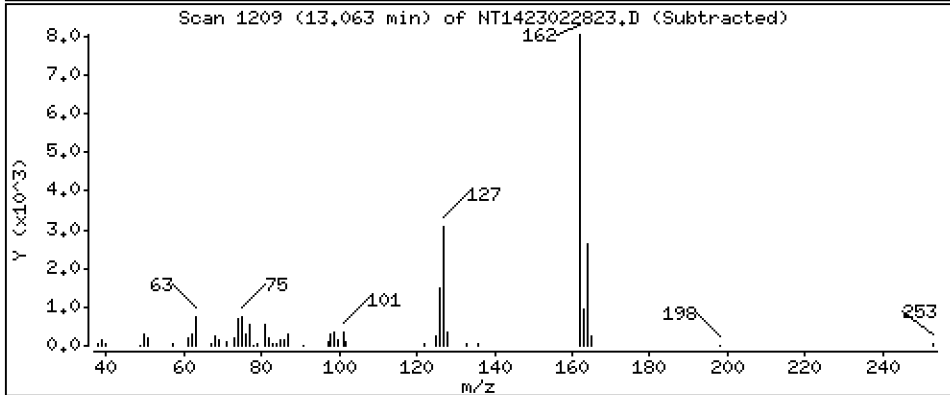
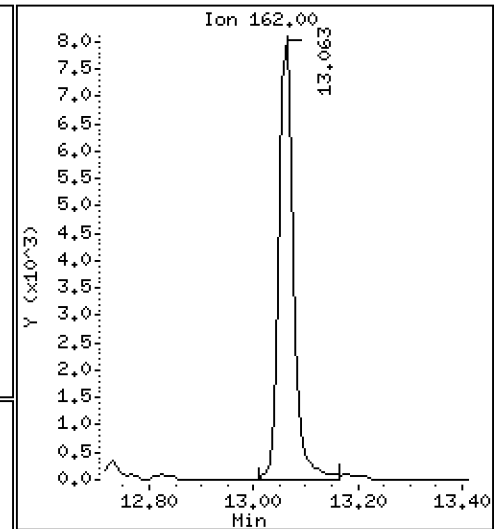
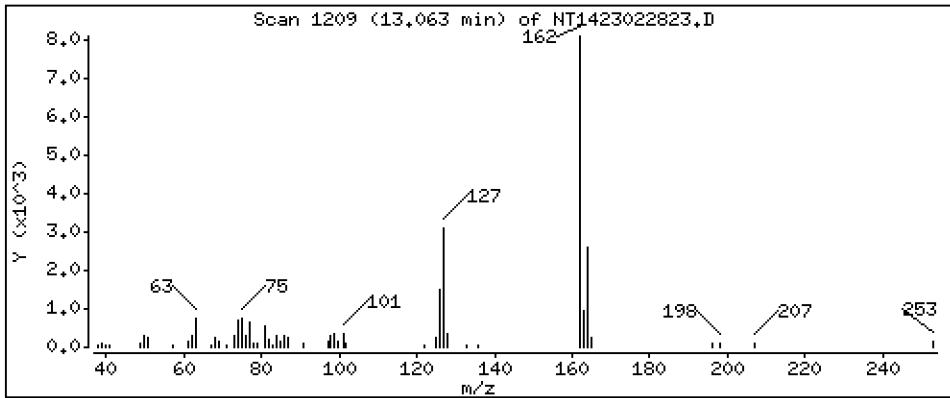
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

37 2-Chloronaphthalene

Concentration: 0,2077 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

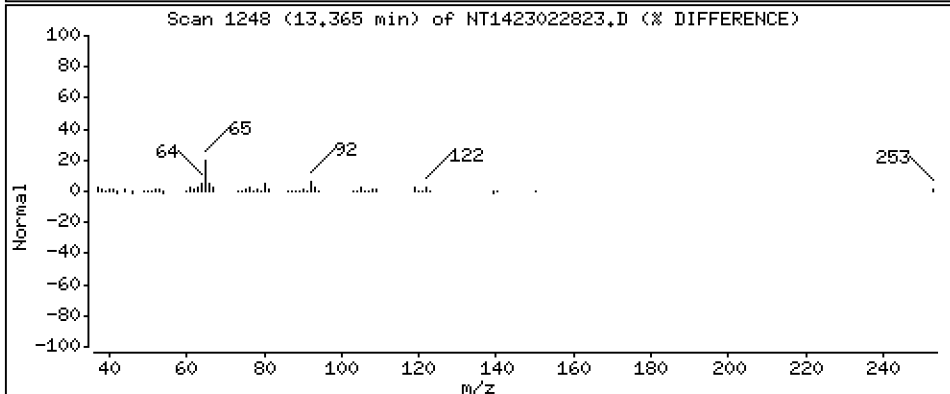
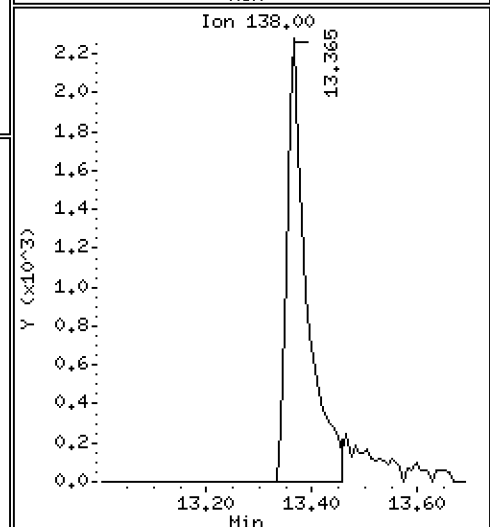
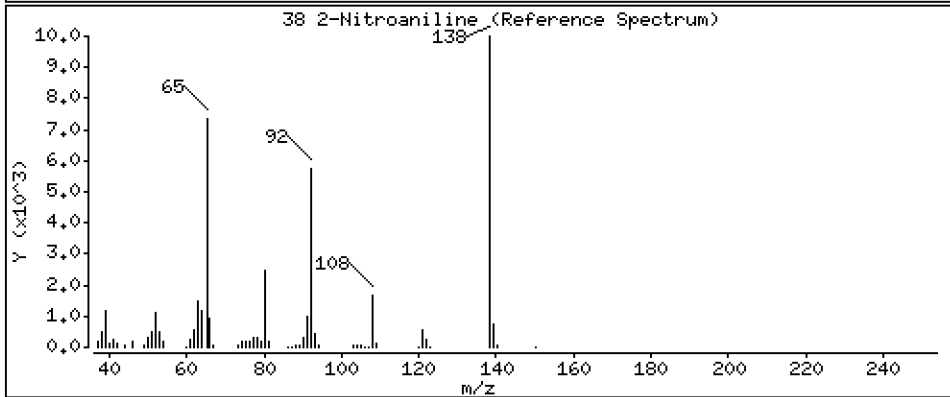
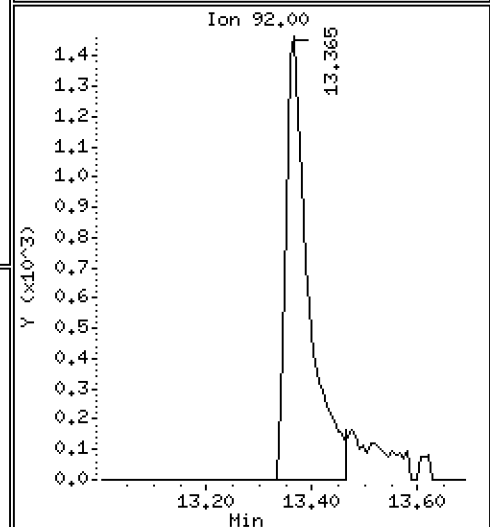
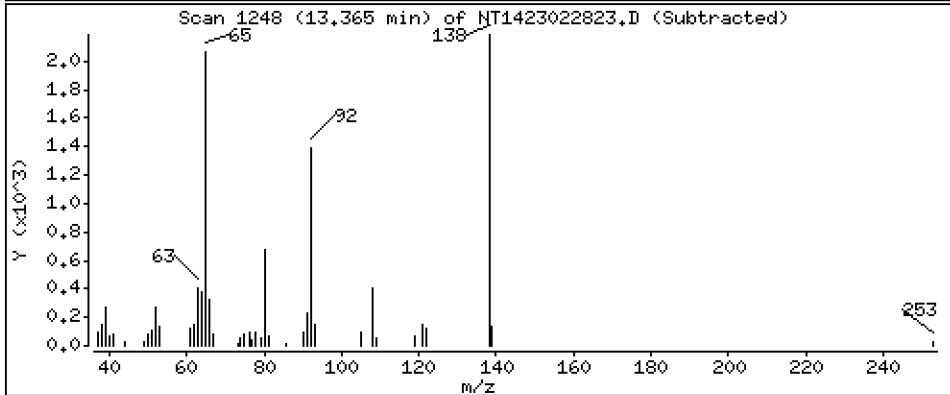
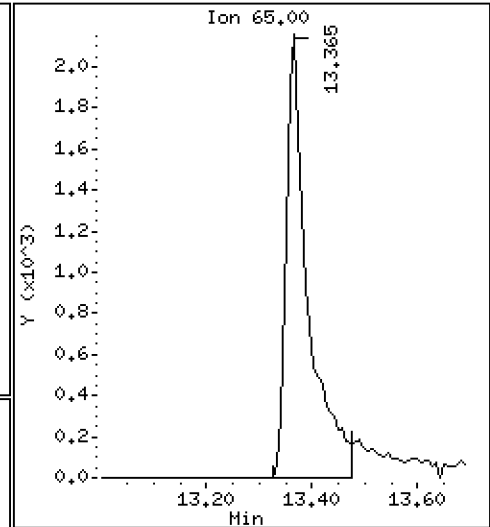
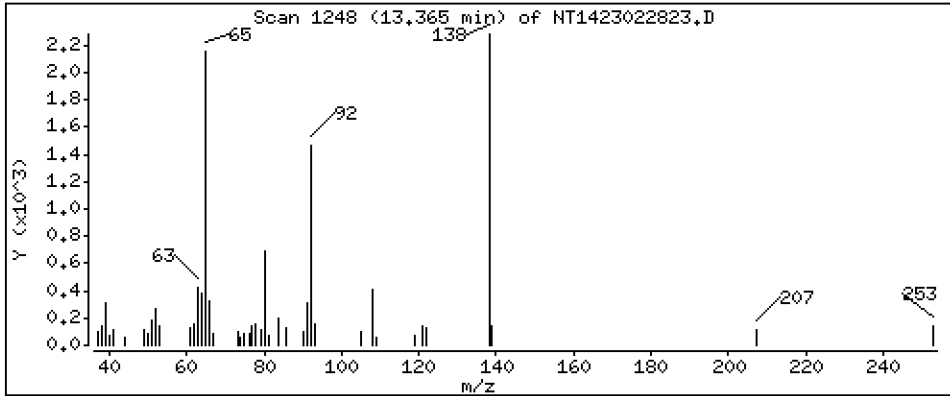
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

38 2-Nitroaniline

Concentration: 0,3328 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

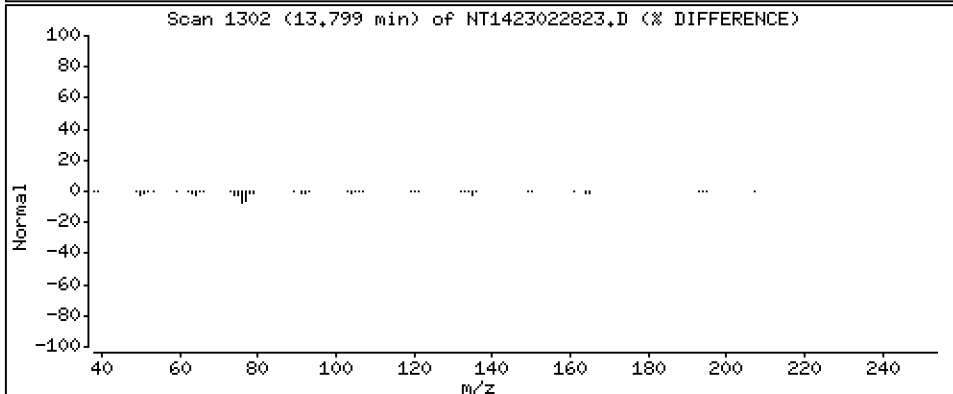
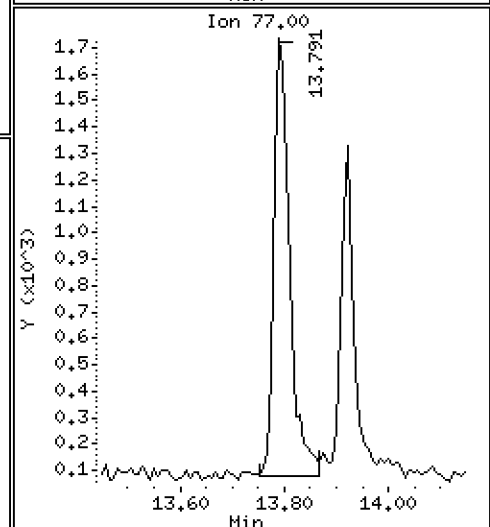
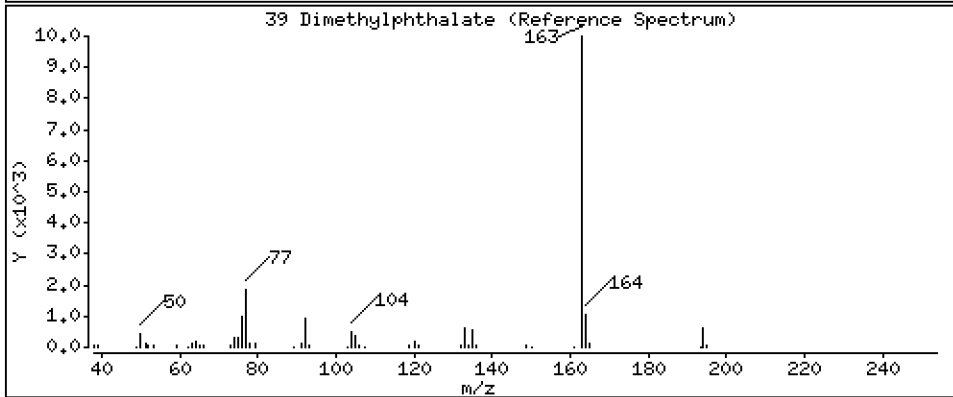
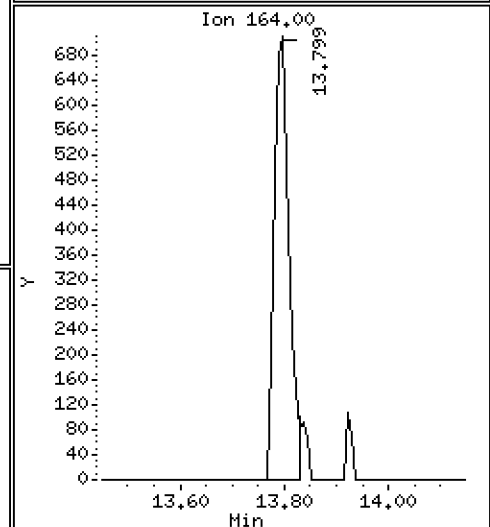
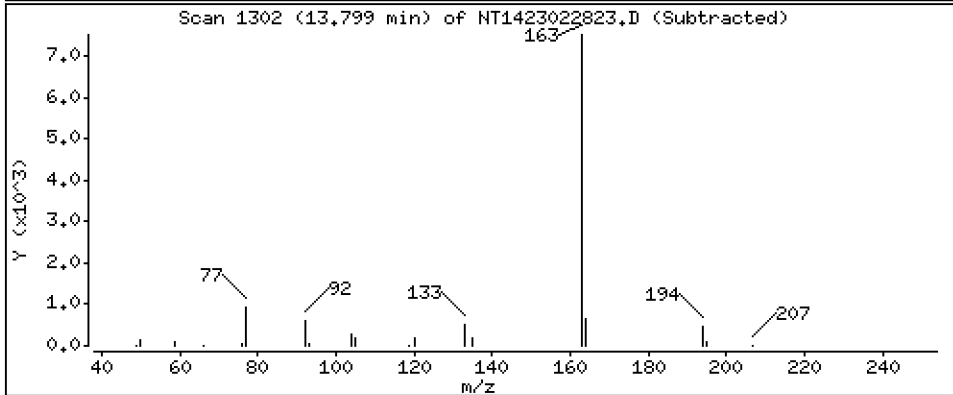
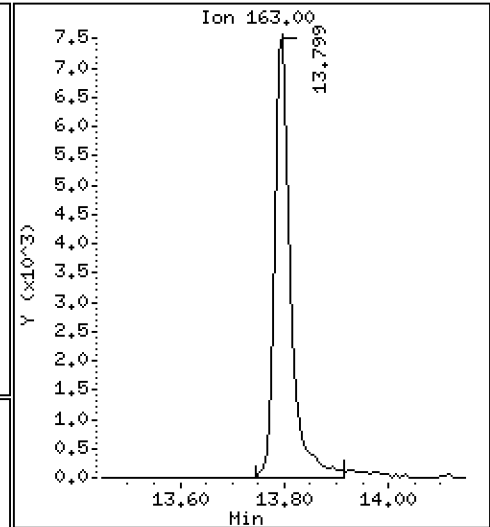
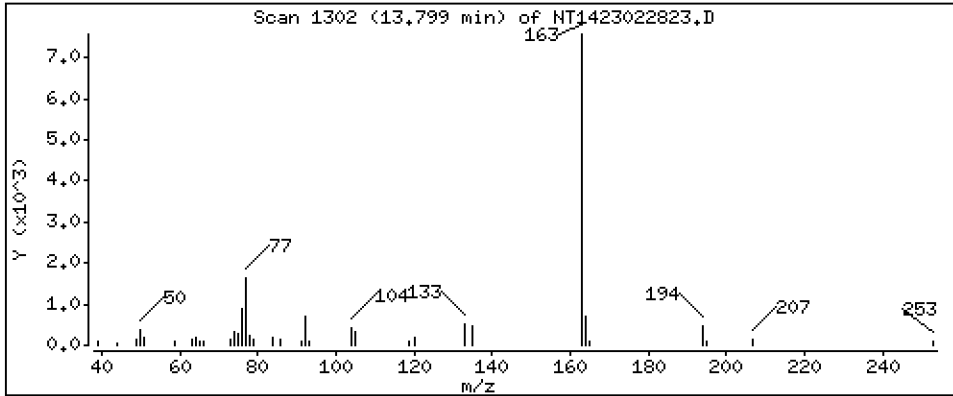
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 0,2127 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

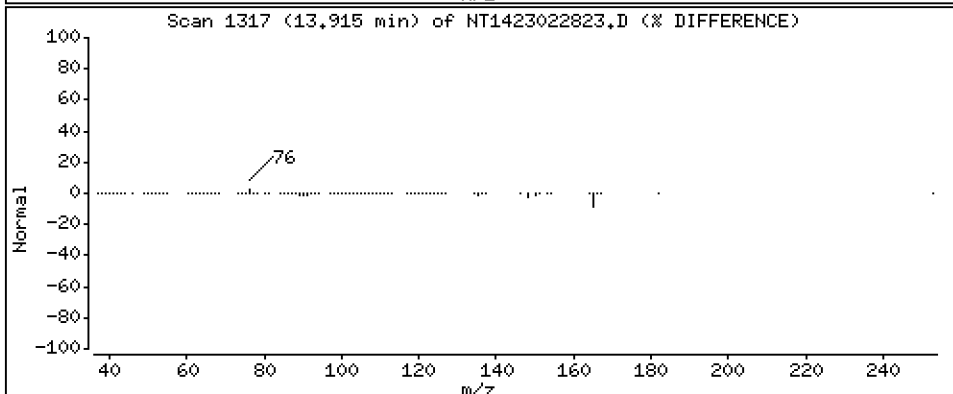
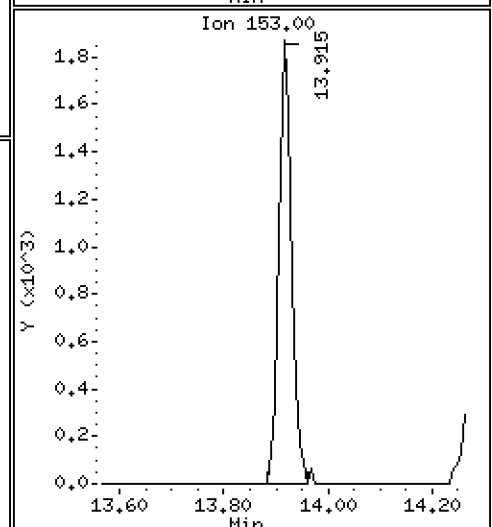
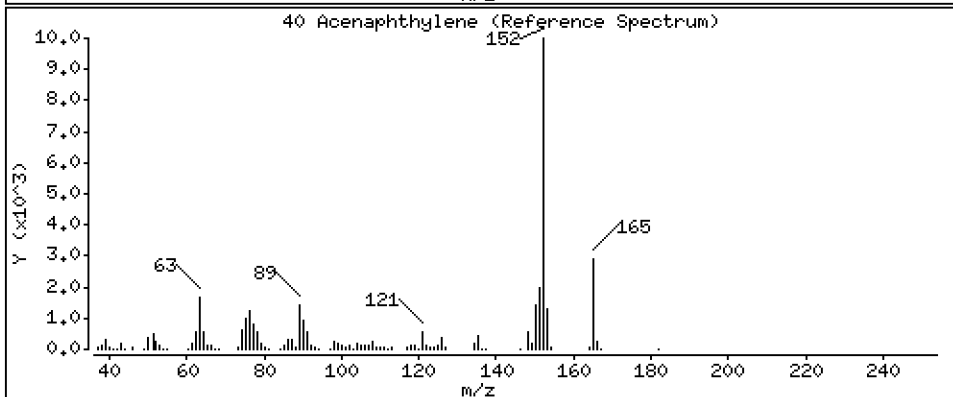
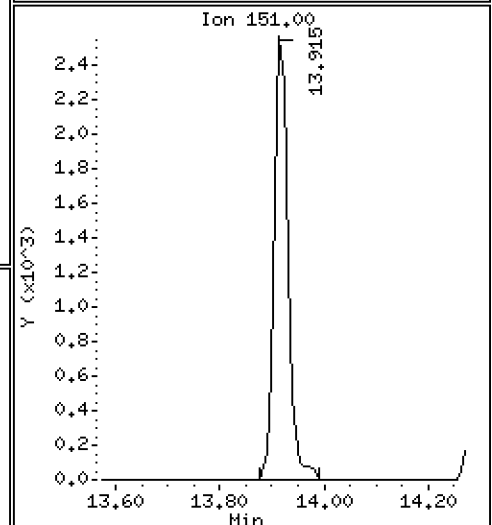
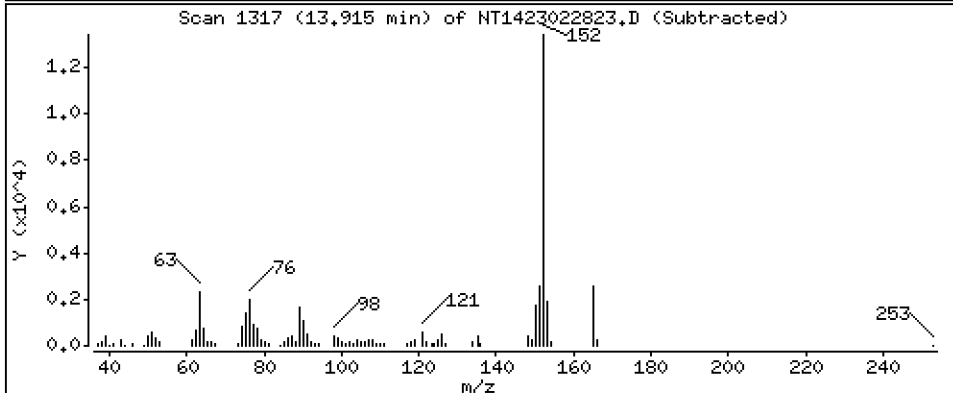
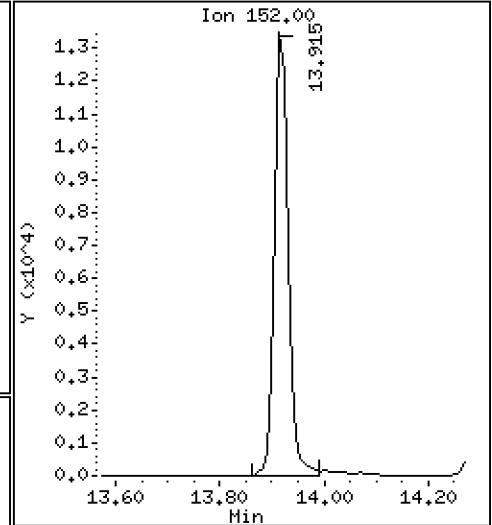
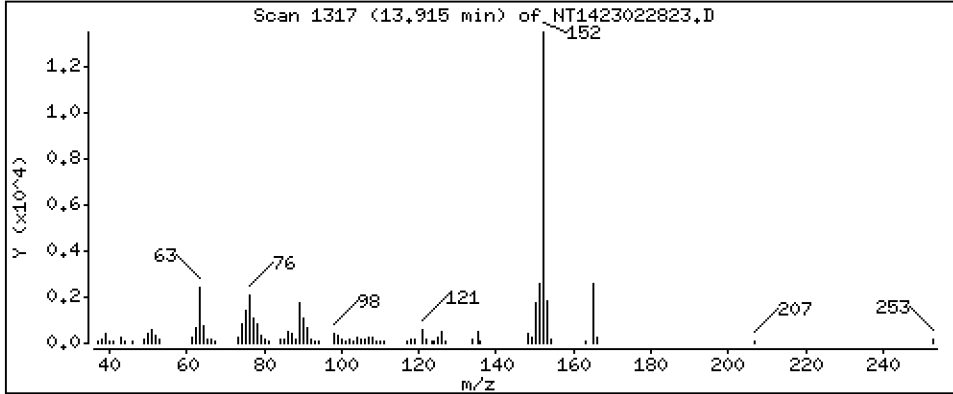
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 0,2211 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

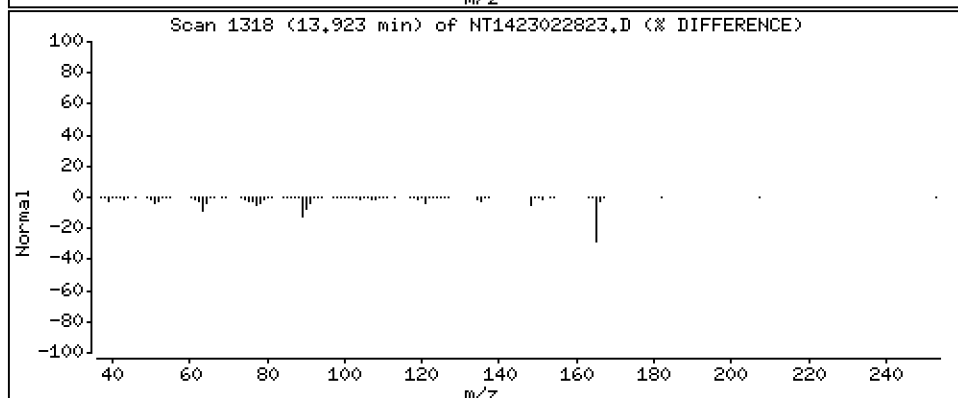
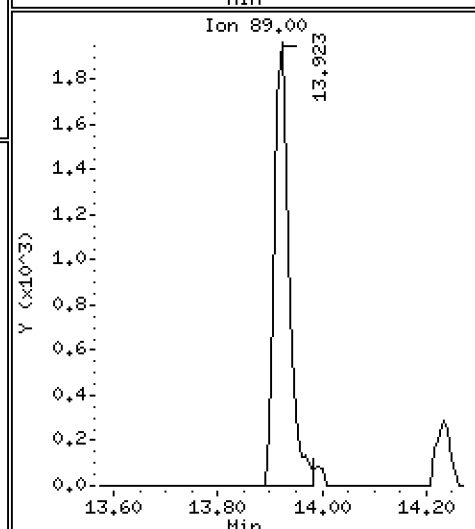
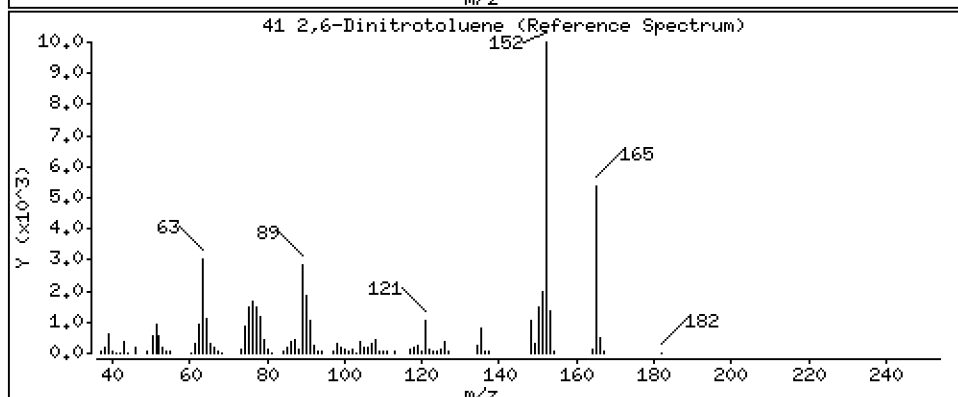
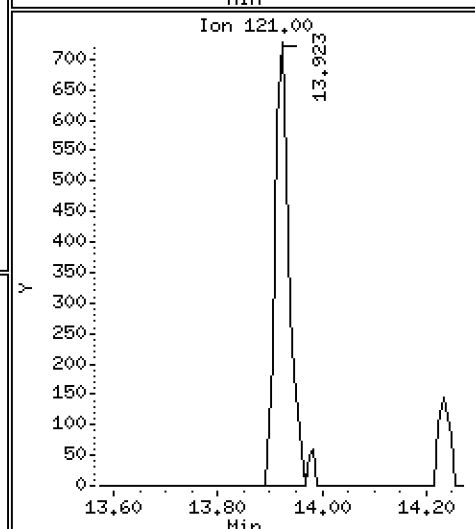
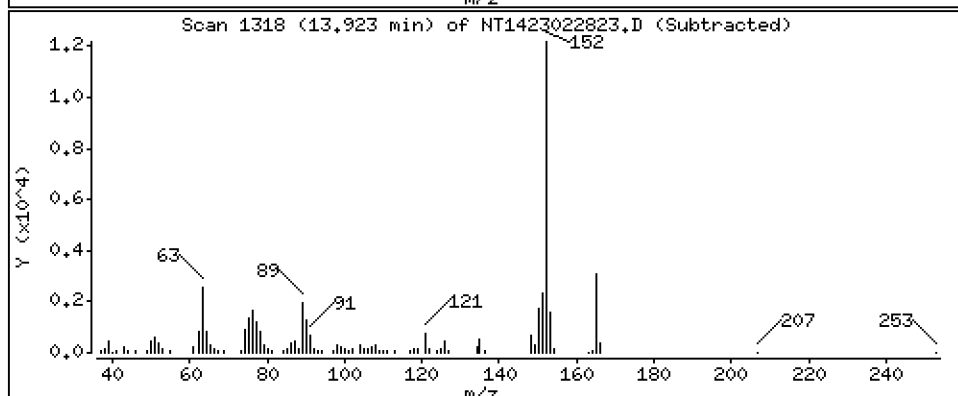
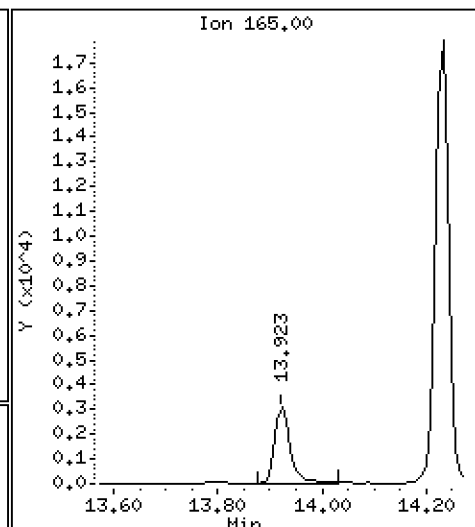
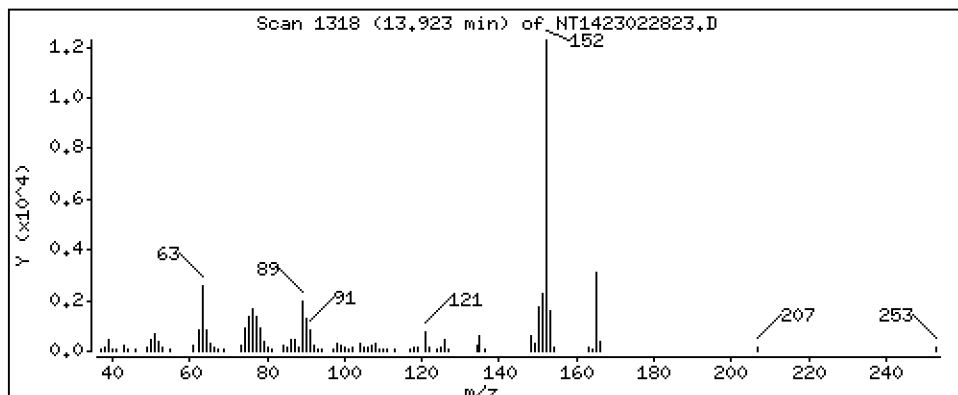
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

41 2,6-Dinitrotoluene

Concentration: 0,3722 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

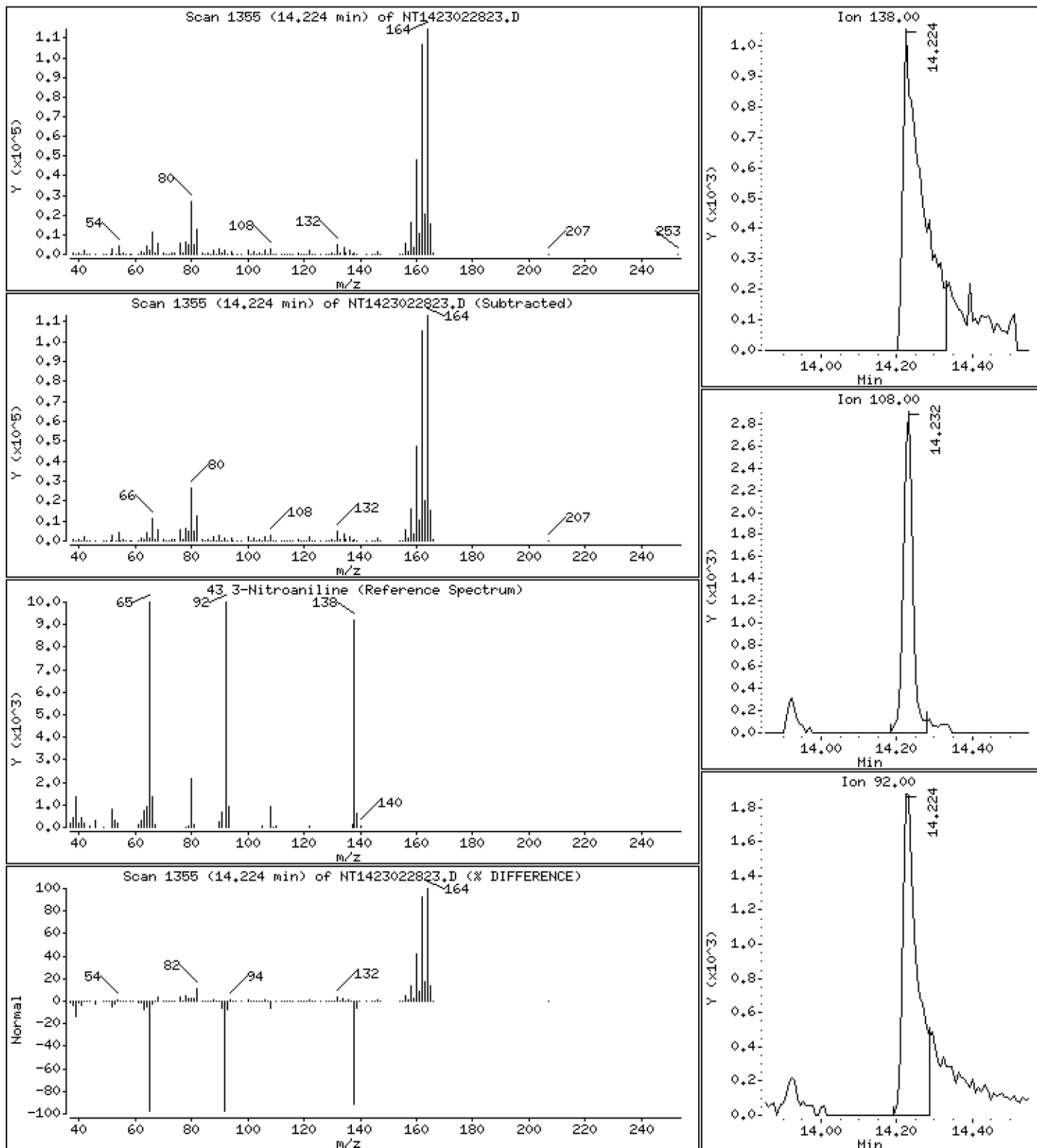
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

43 3-Nitroaniline

Concentration: 0,2209 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

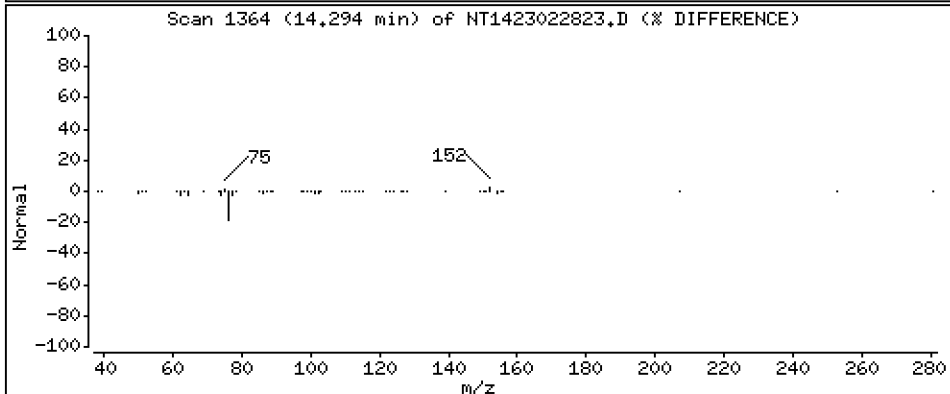
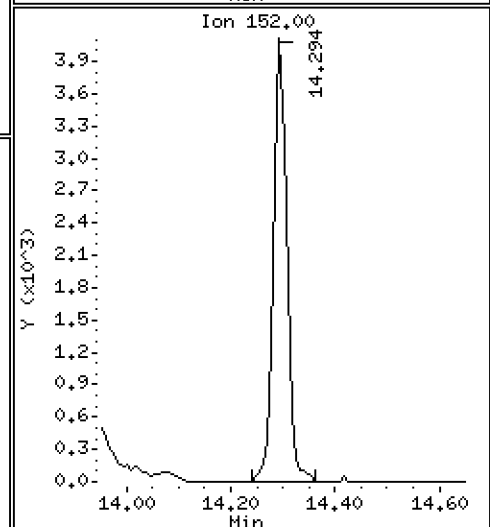
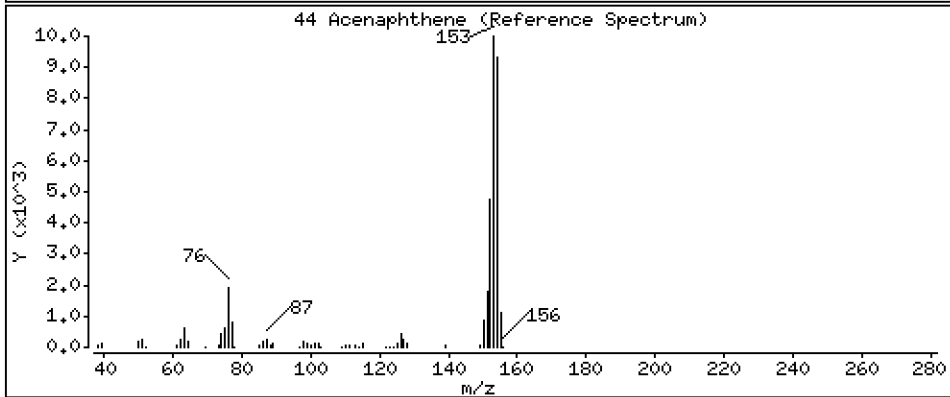
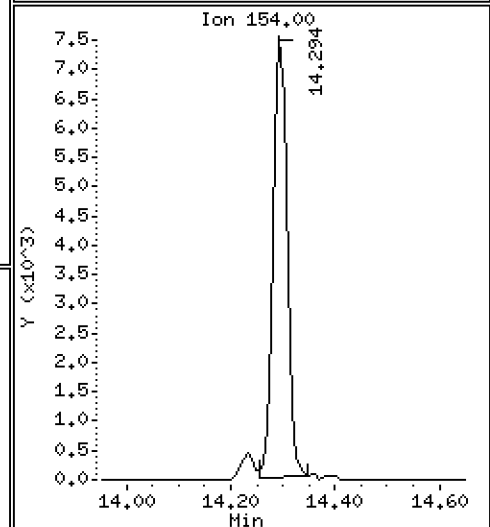
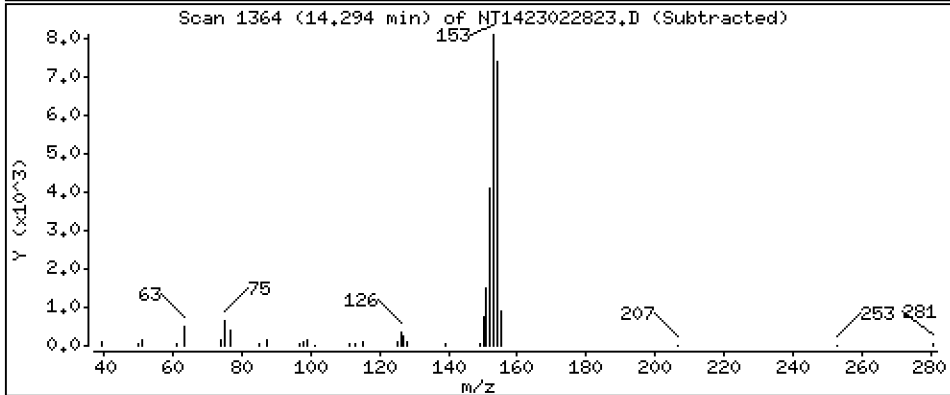
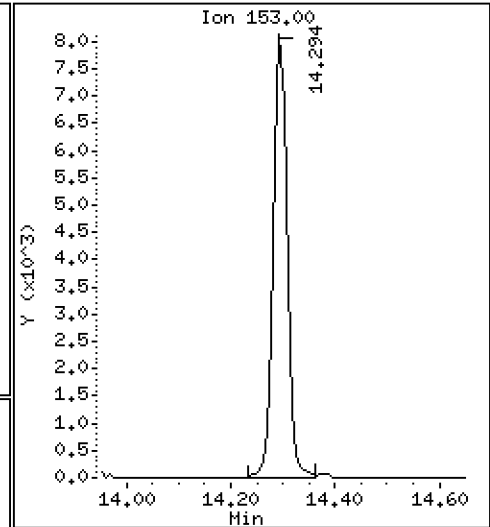
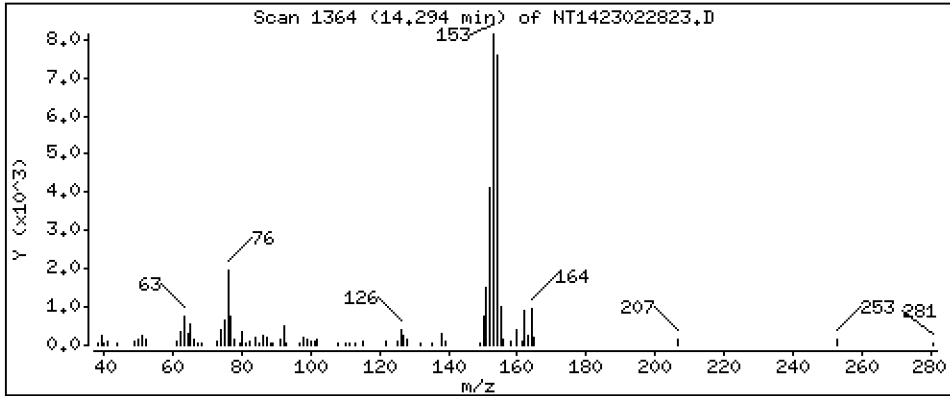
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 0,2101 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

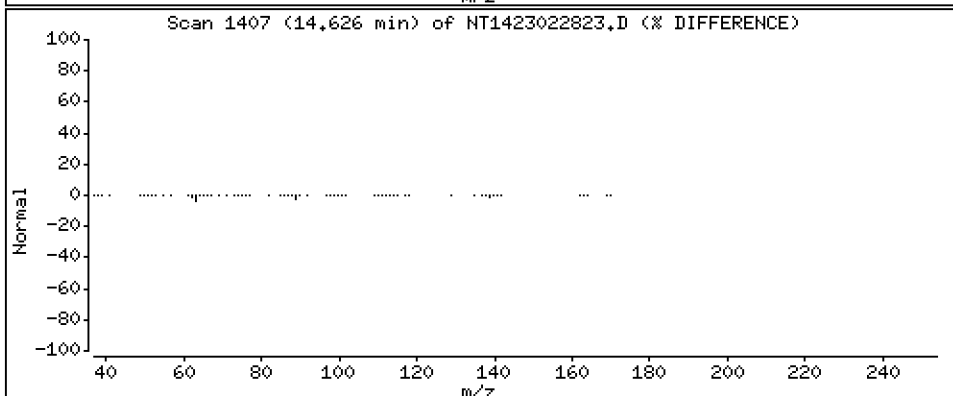
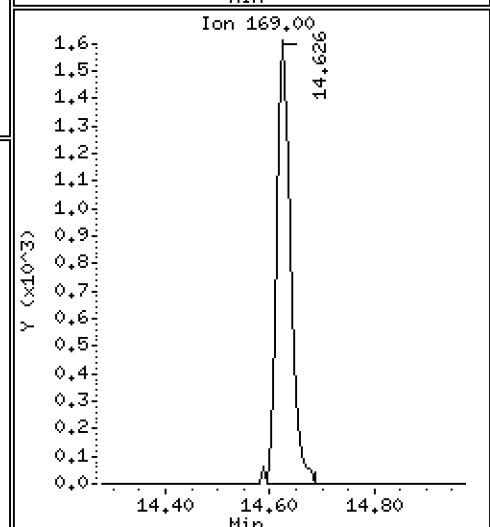
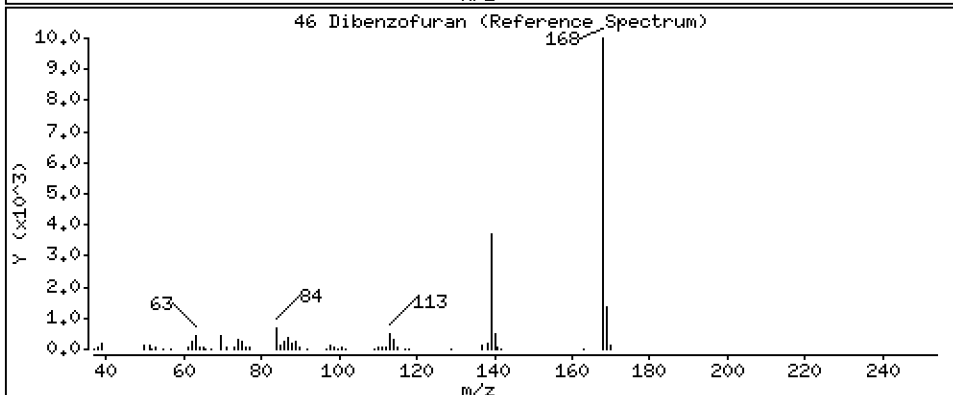
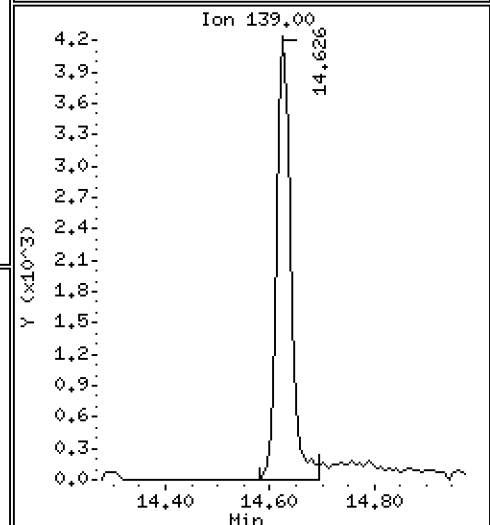
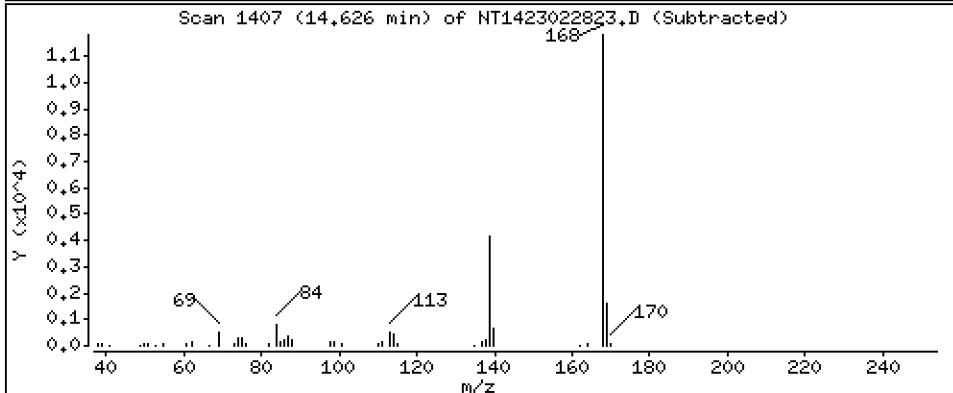
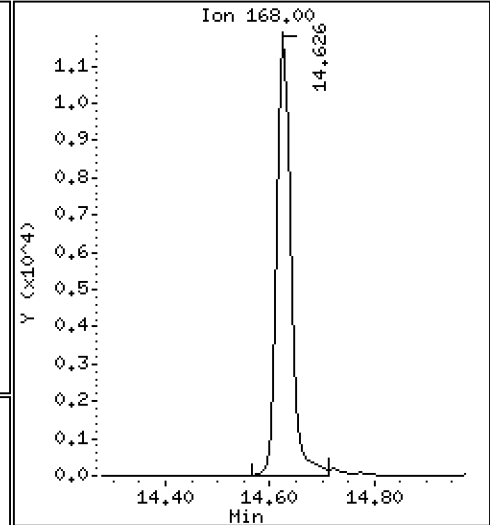
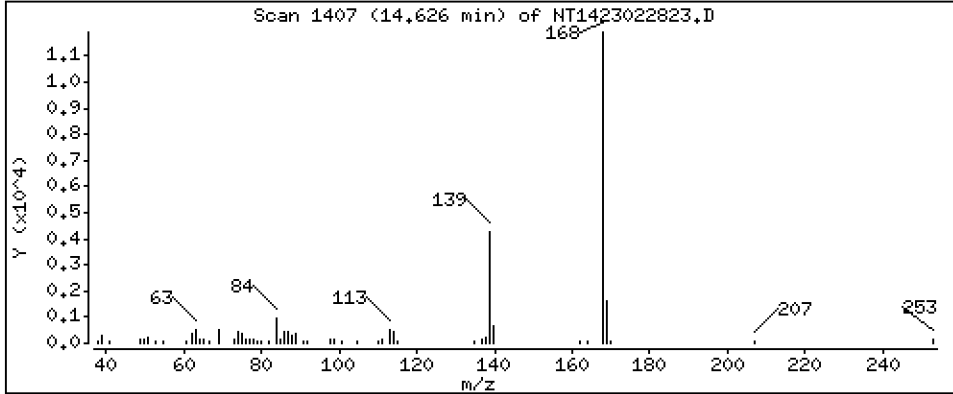
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 0,1984 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

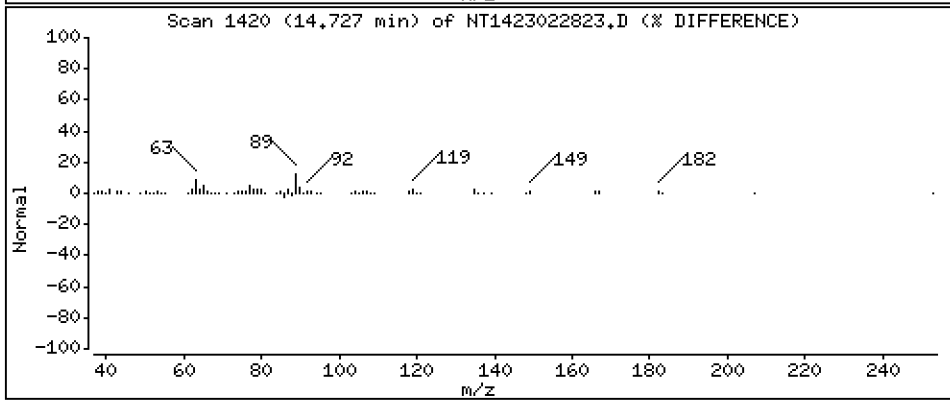
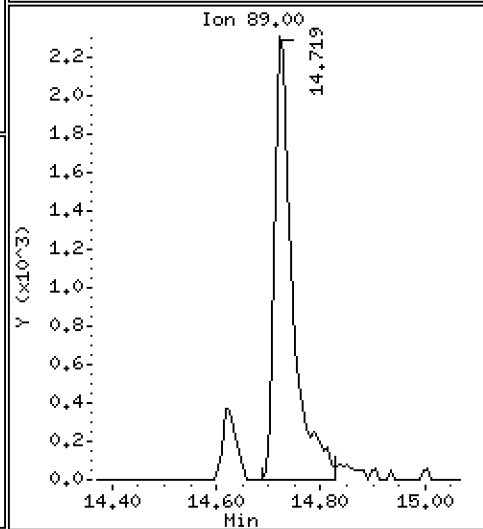
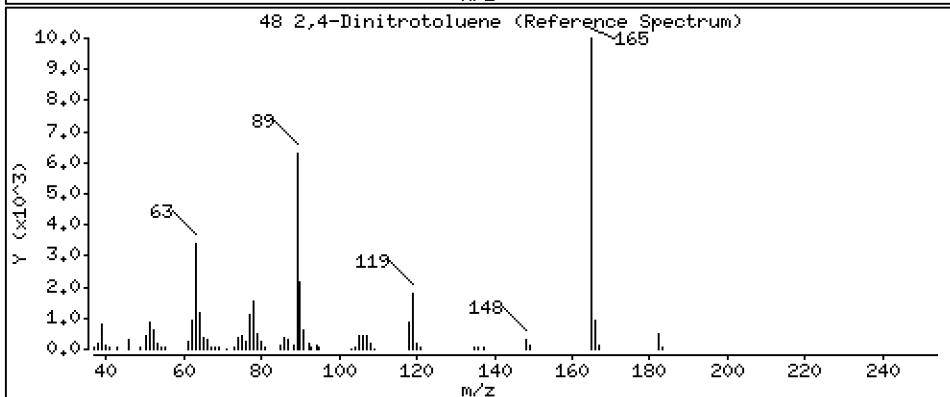
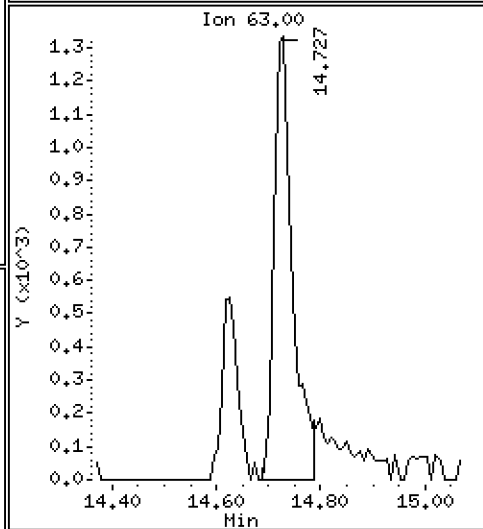
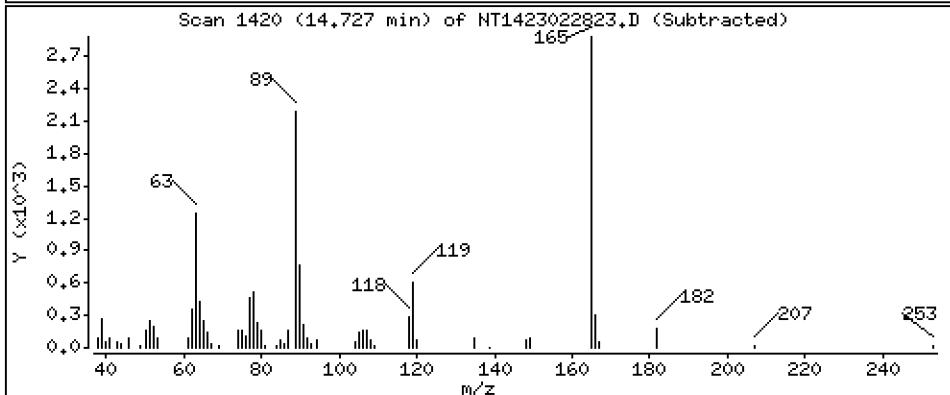
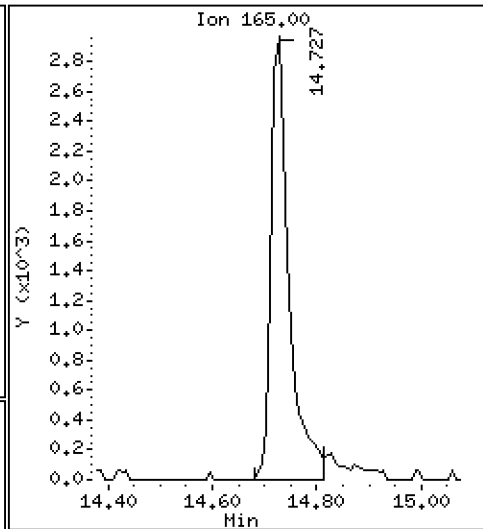
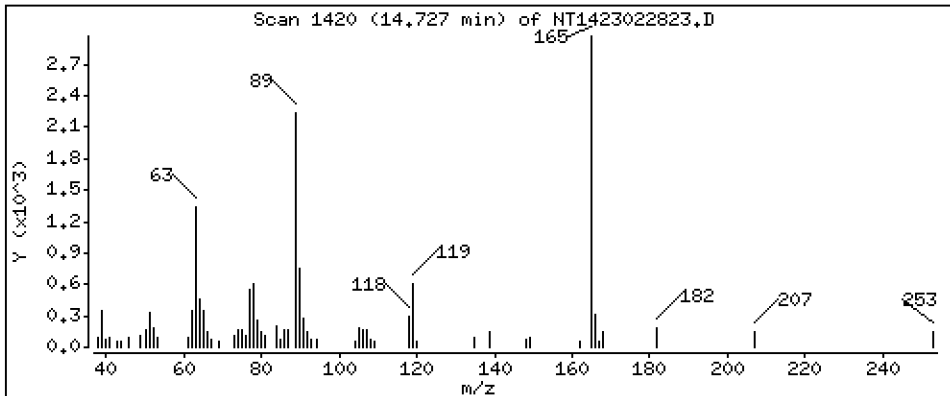
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

48 2,4-Dinitrotoluene

Concentration: 0.2795 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

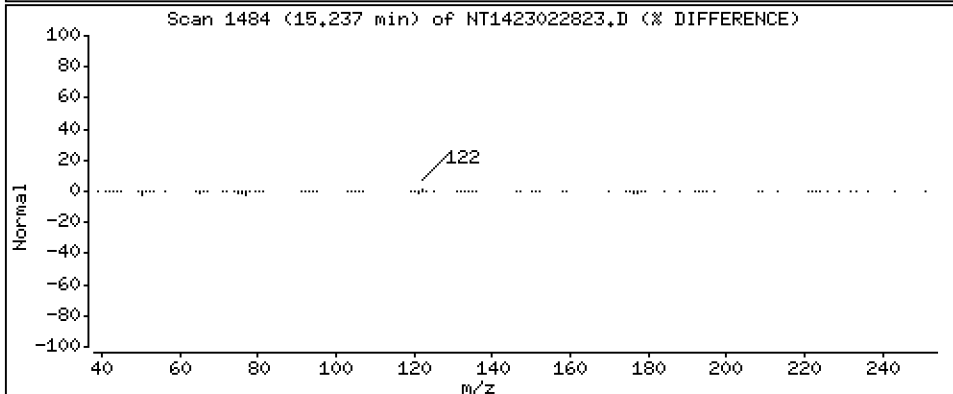
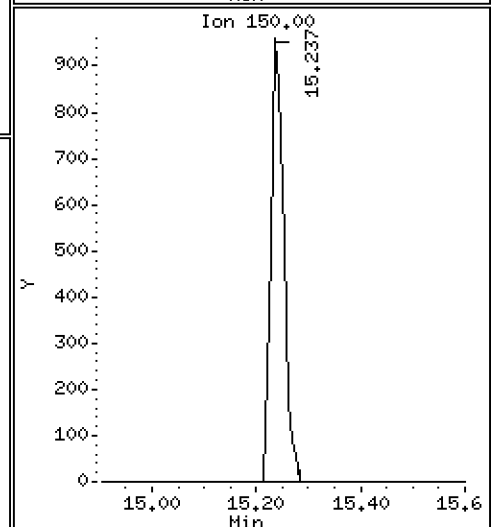
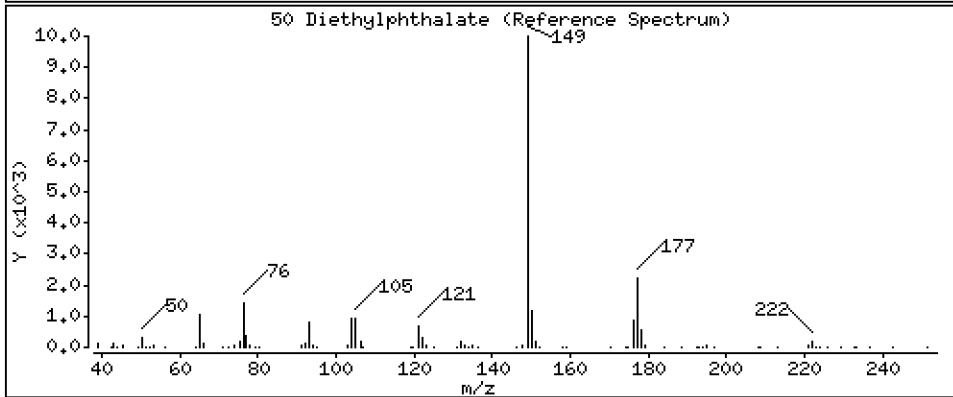
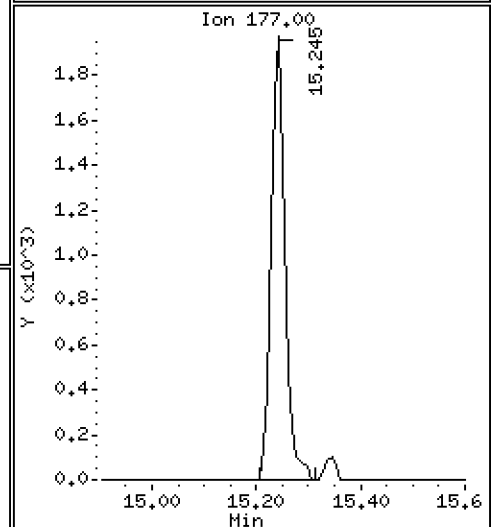
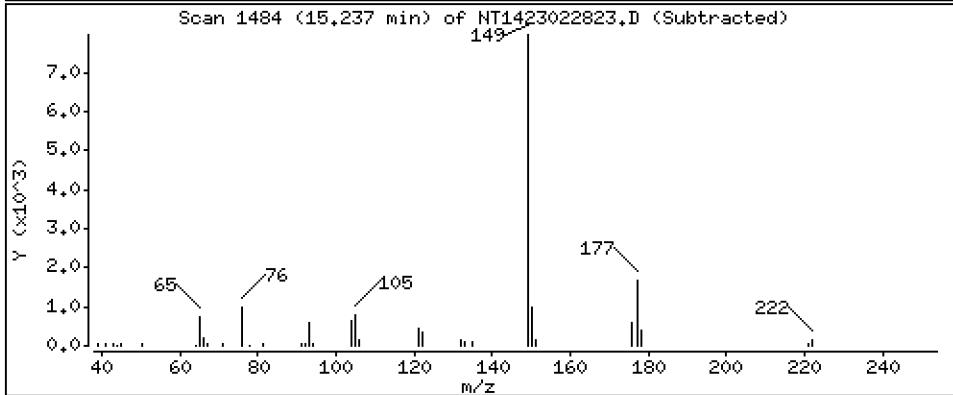
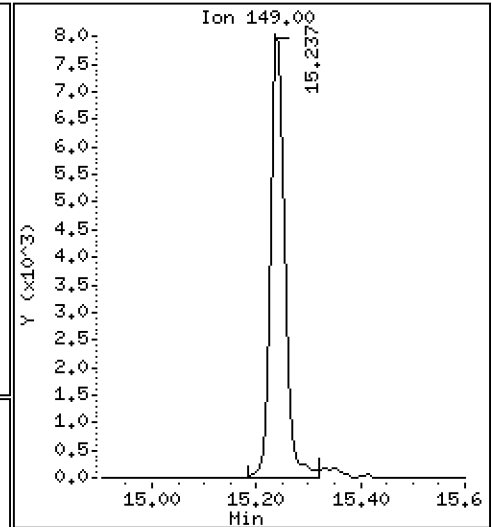
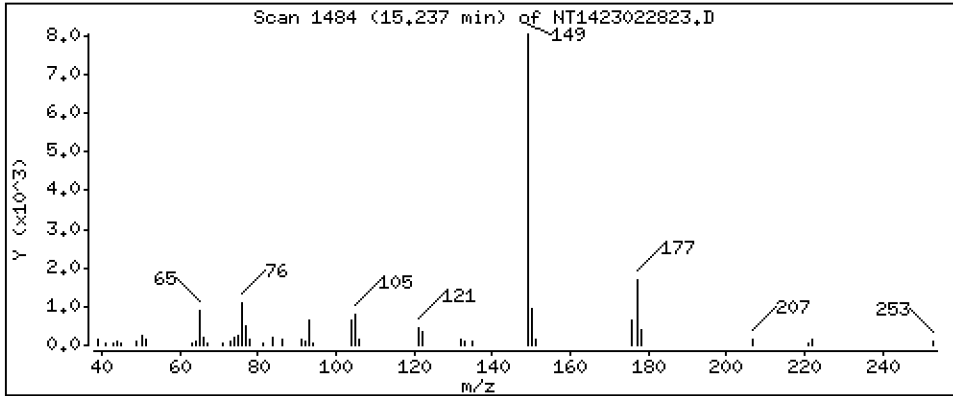
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 0,2149 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

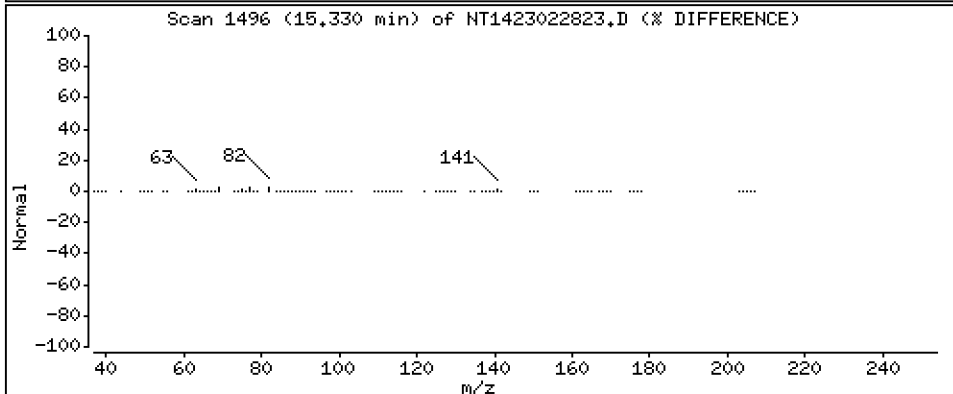
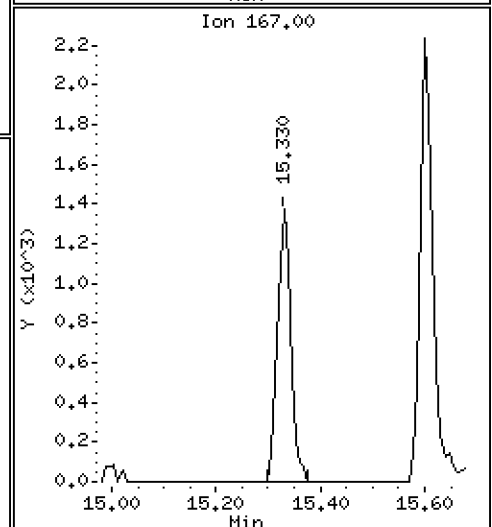
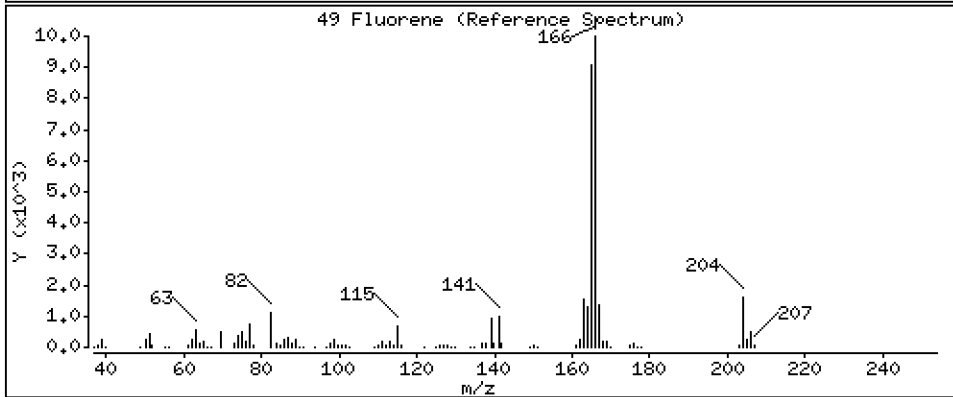
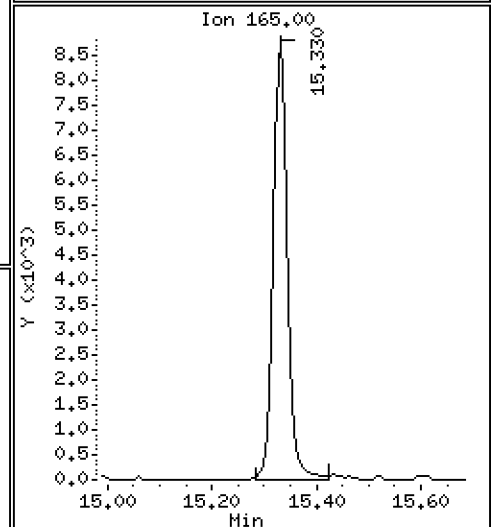
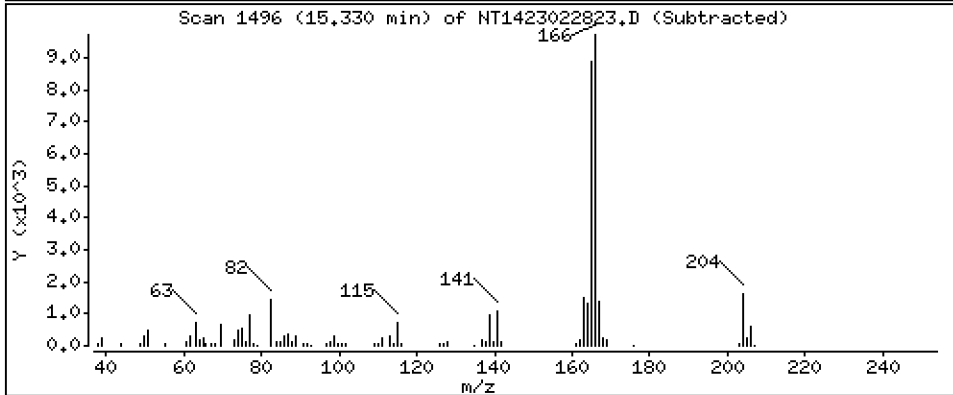
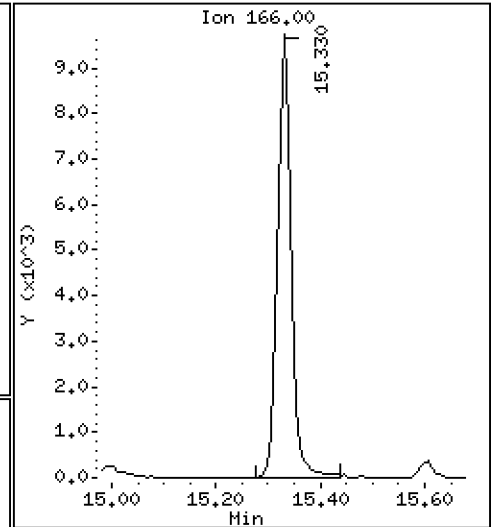
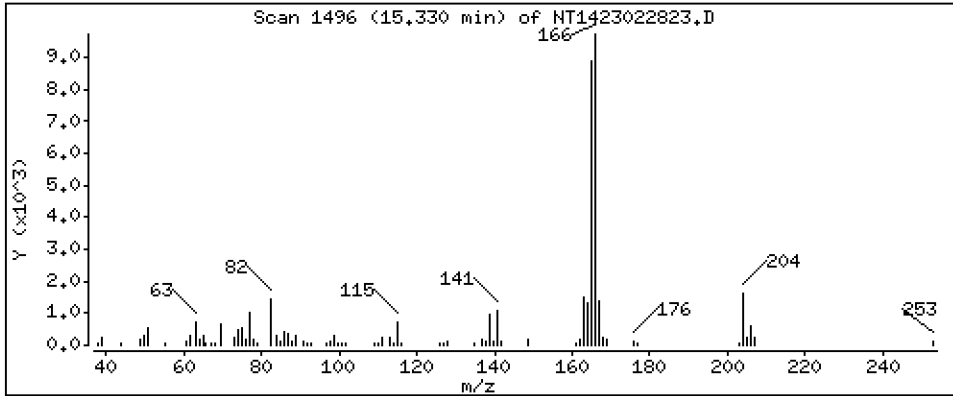
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 0,2100 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

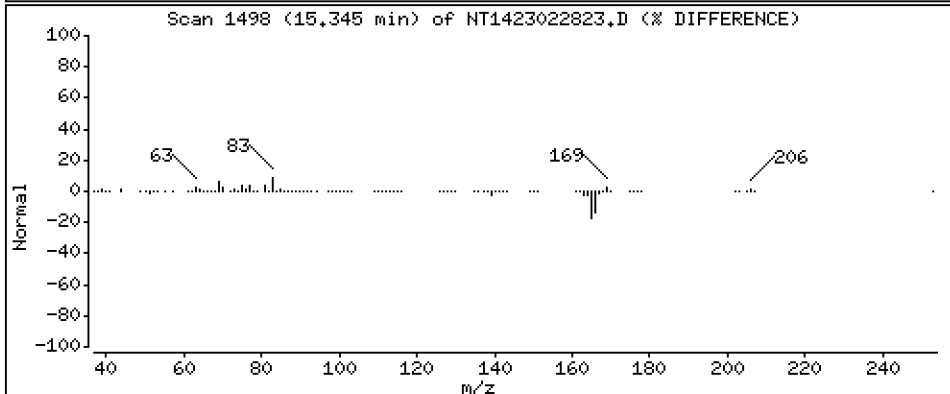
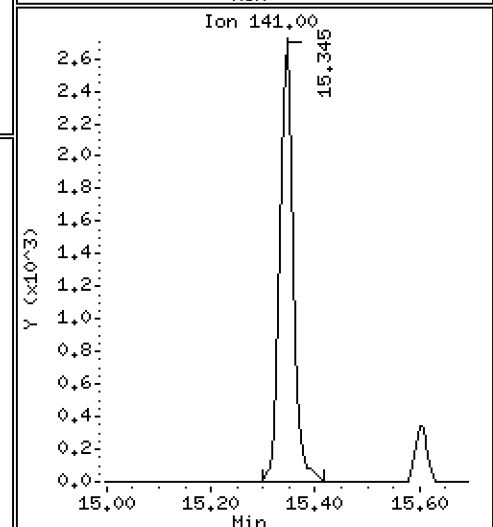
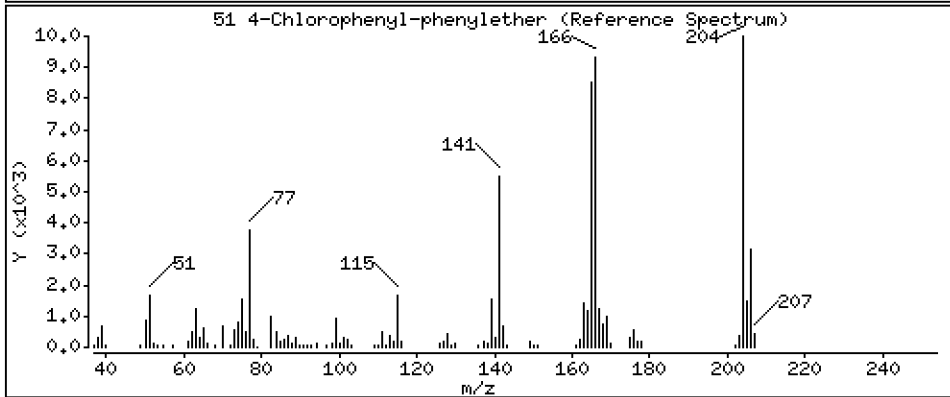
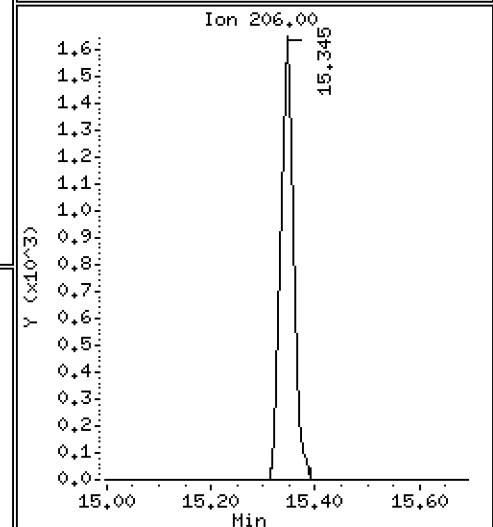
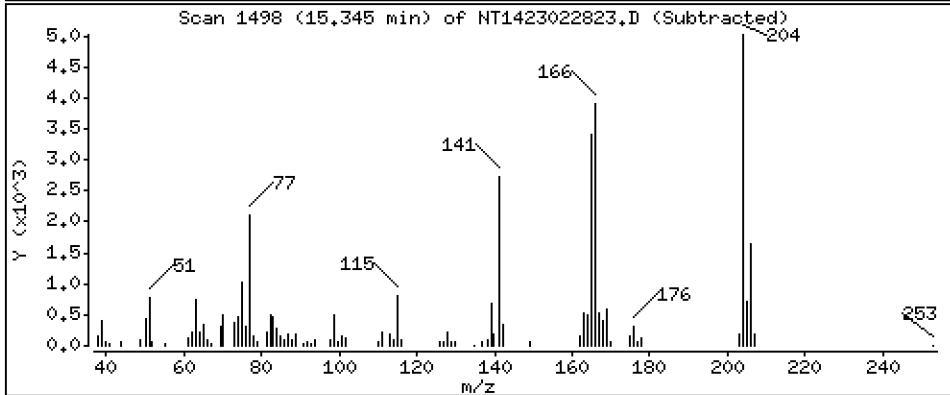
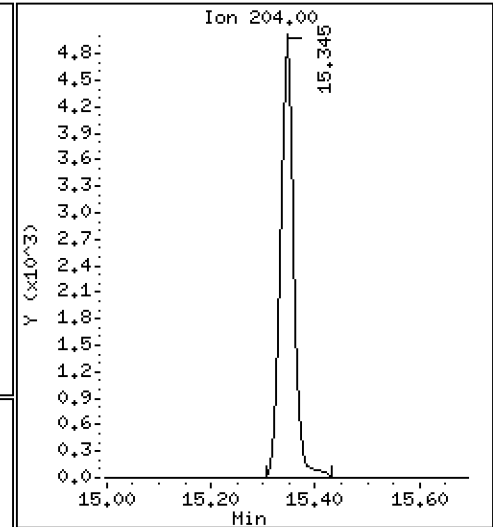
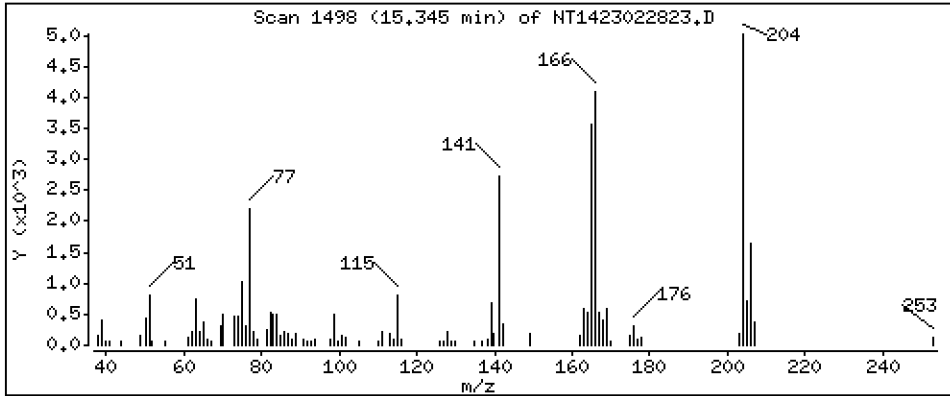
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 0,2012 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

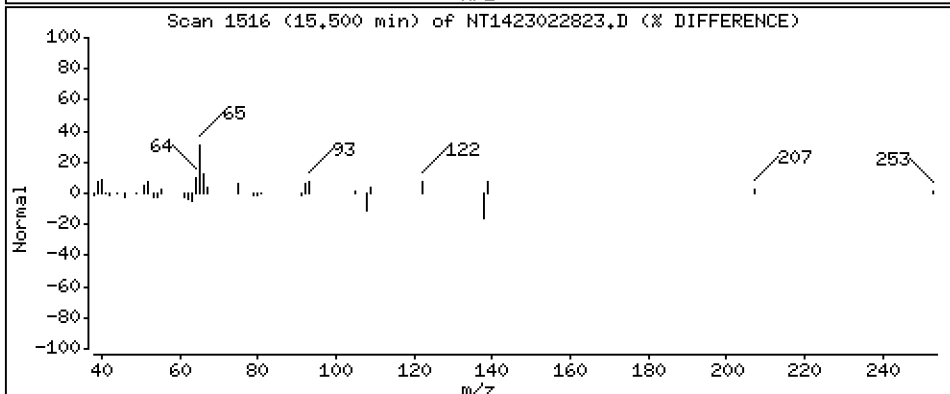
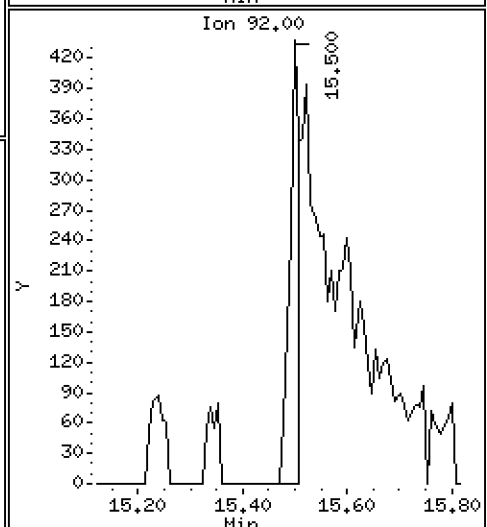
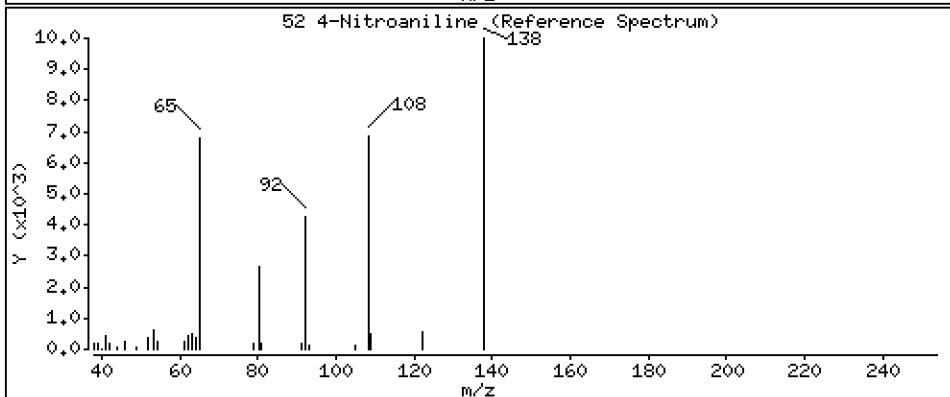
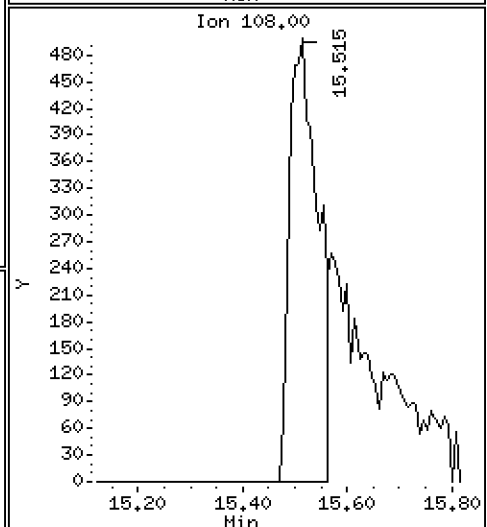
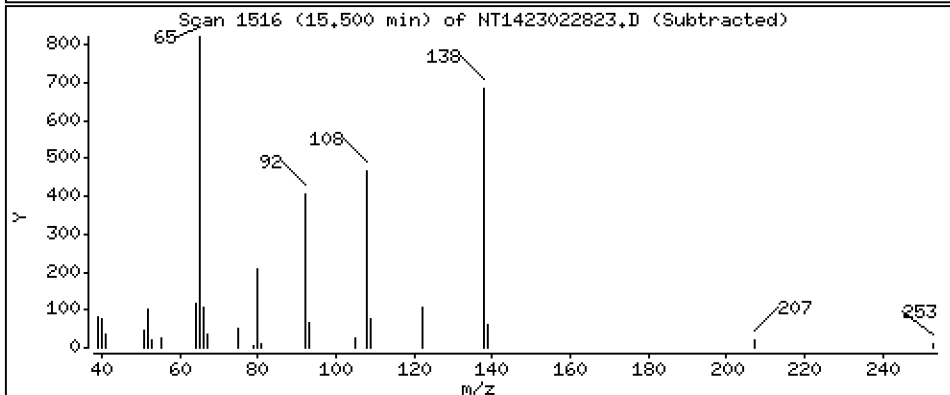
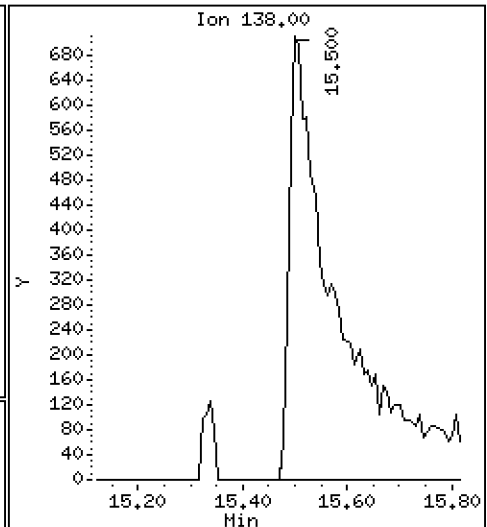
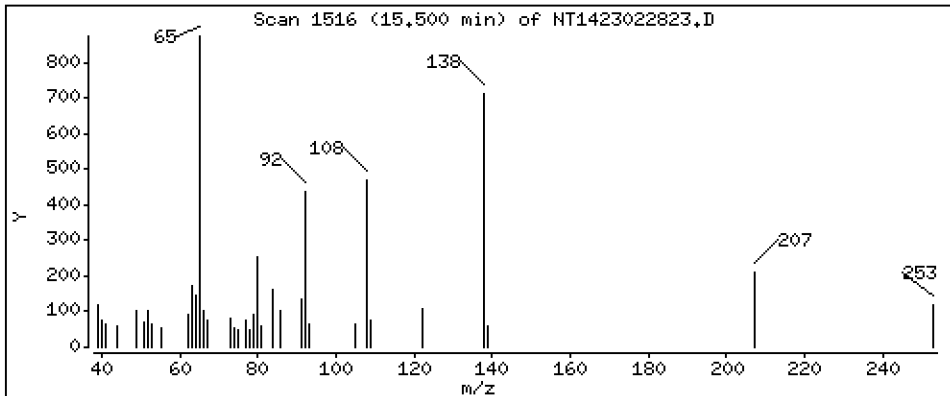
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

52 4-Nitroaniline

Concentration: 0,2714 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

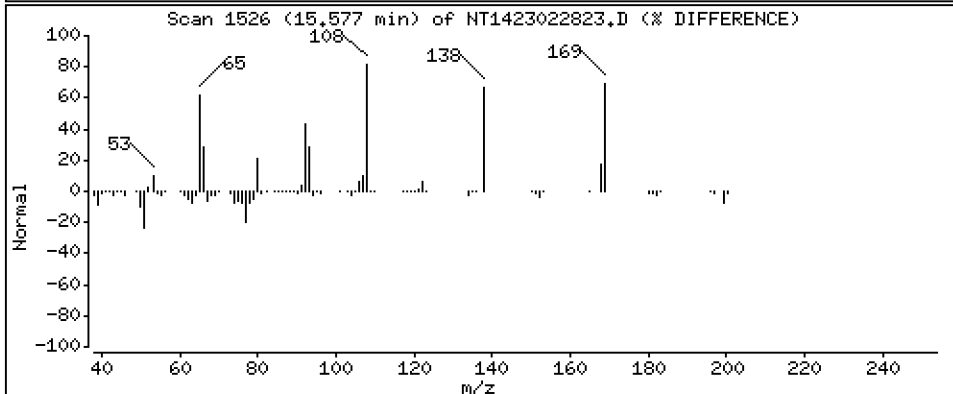
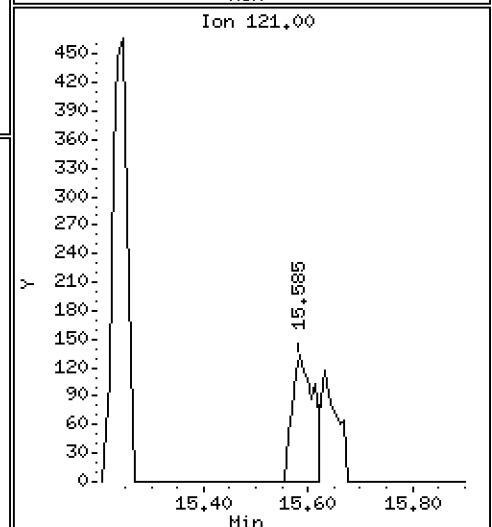
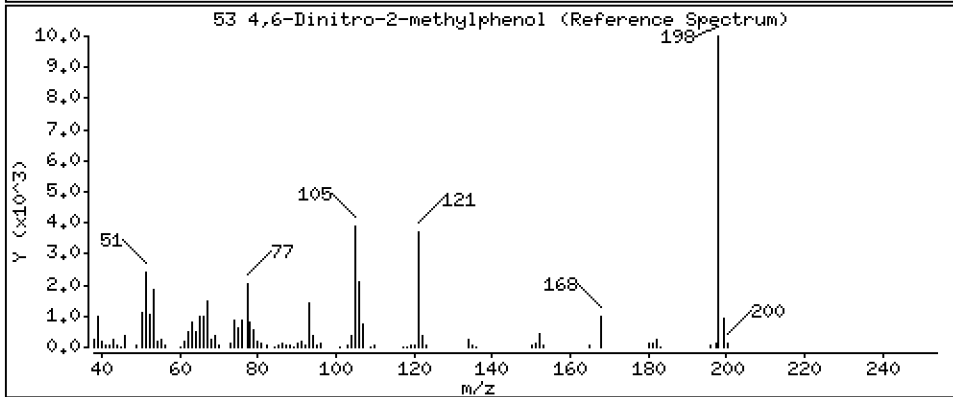
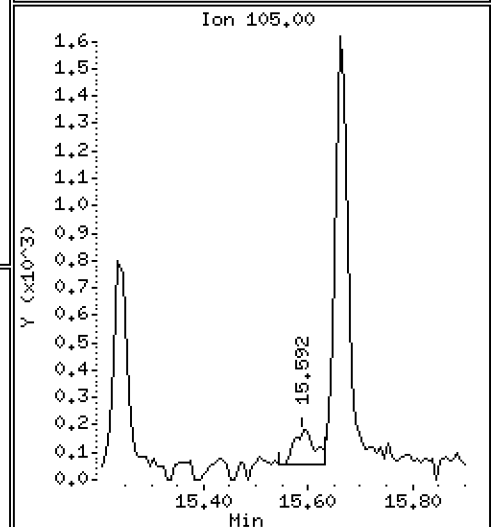
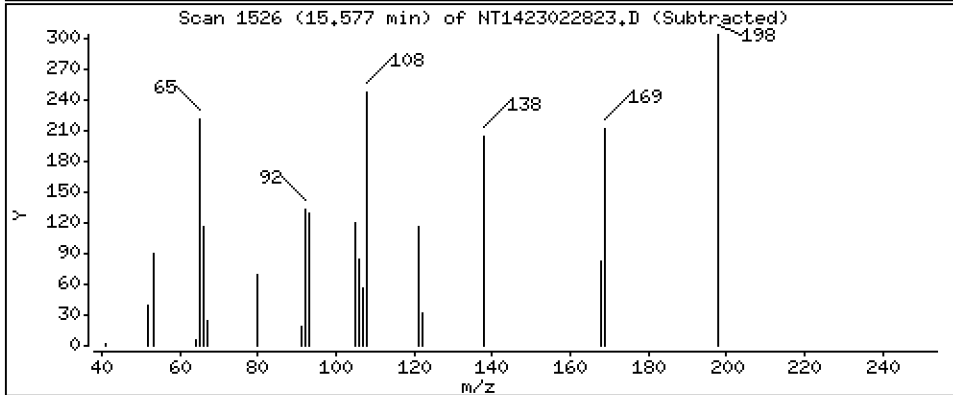
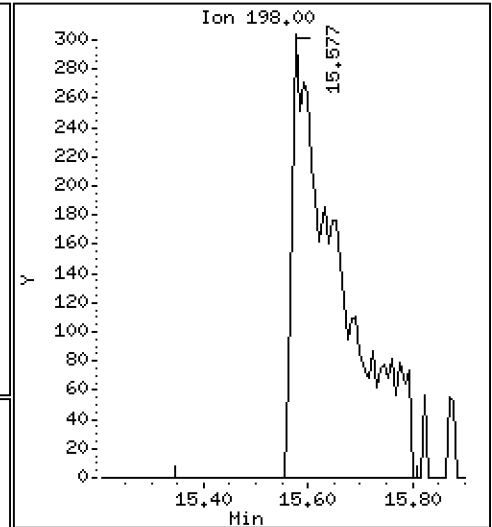
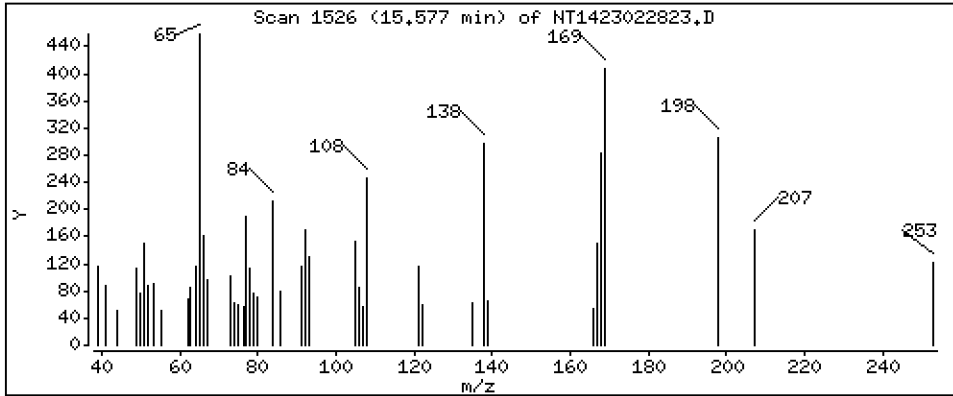
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

53 4,6-Dinitro-2-methylphenol

Concentration: 0,1376 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

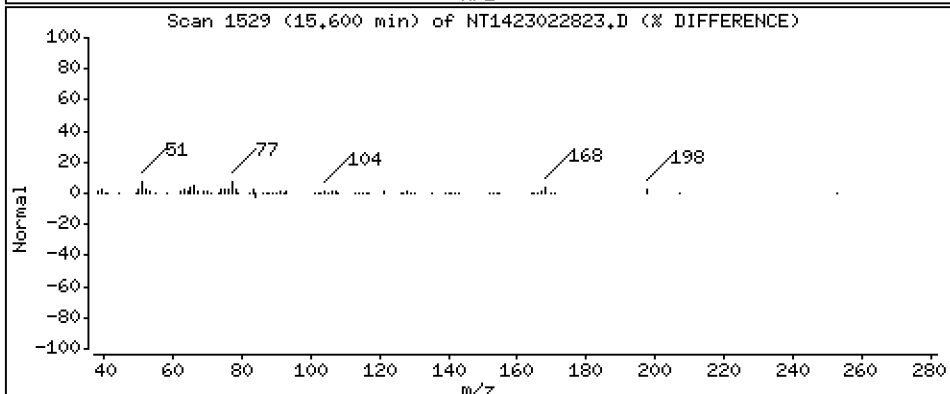
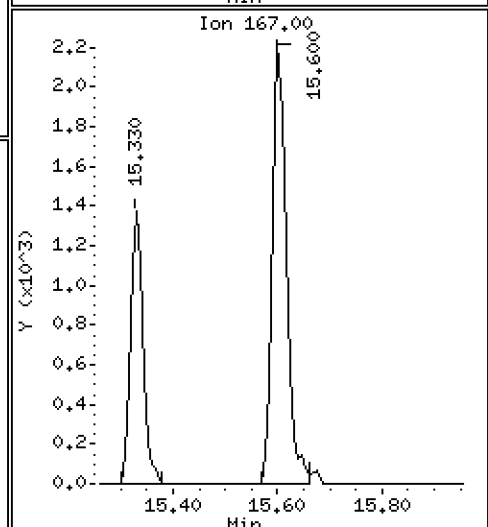
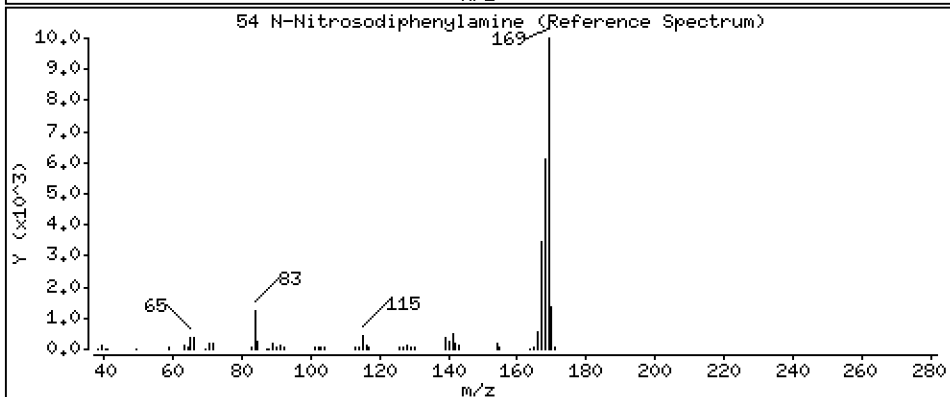
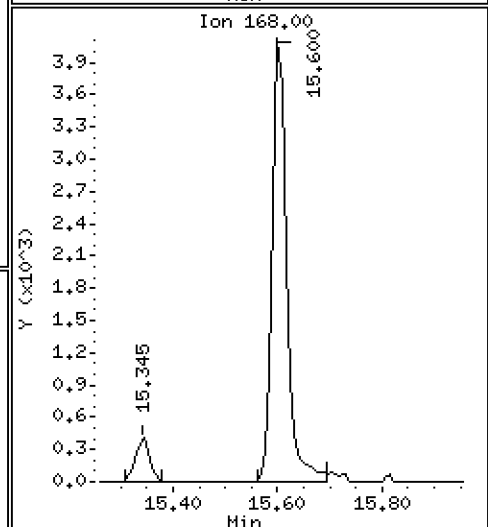
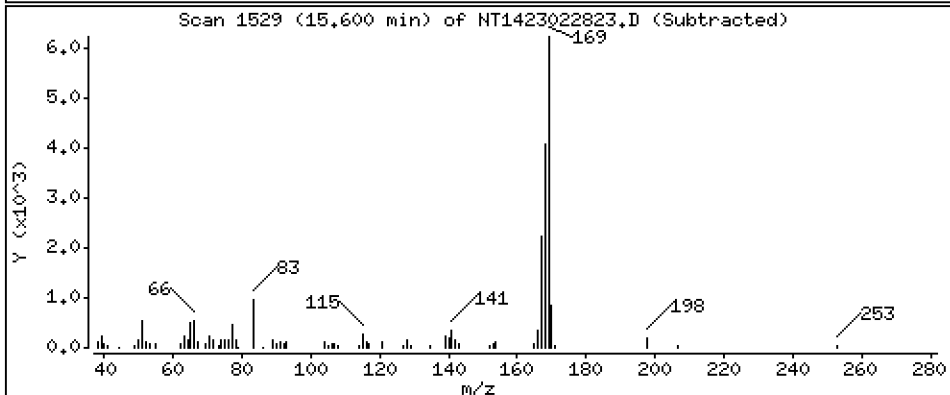
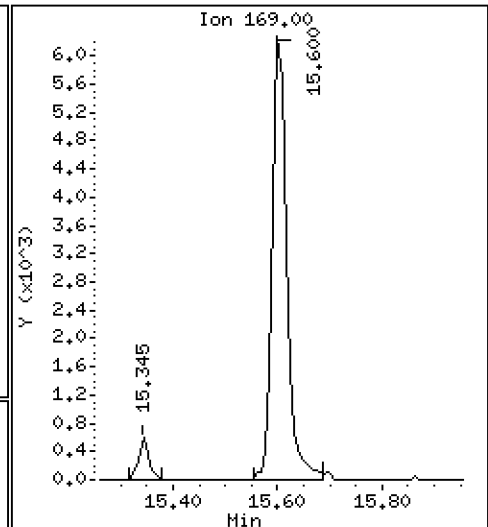
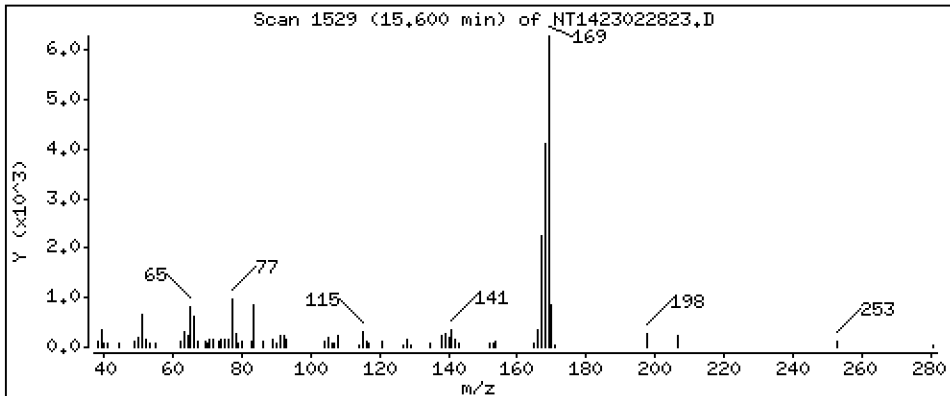
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

54 N-Nitrosodiphenylamine

Concentration: 0.2123 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

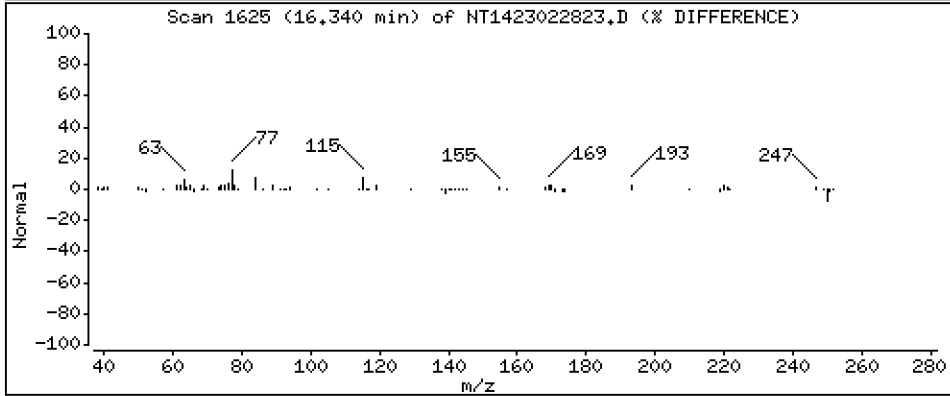
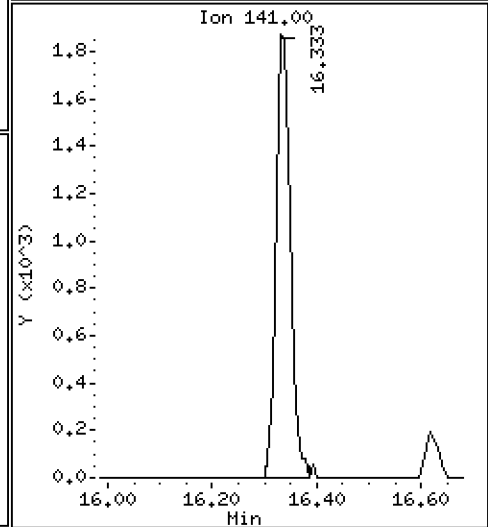
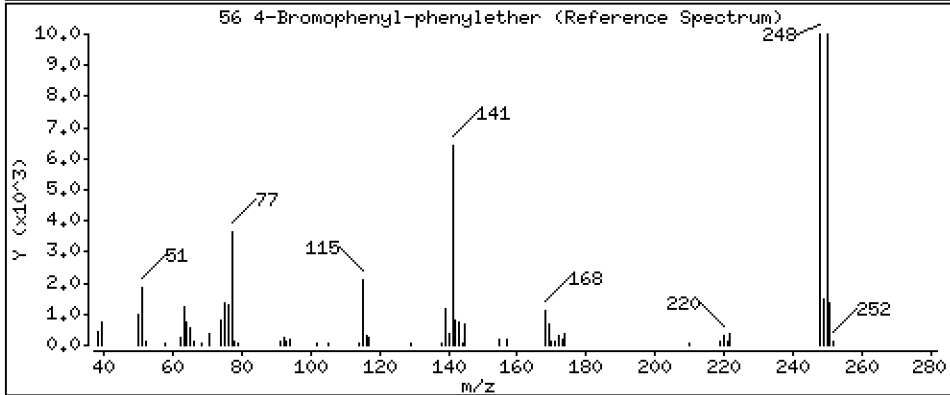
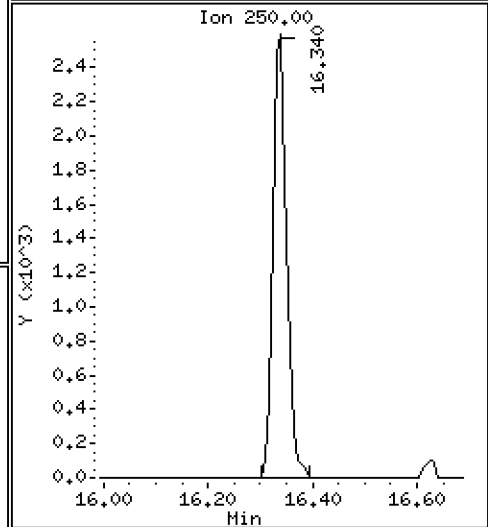
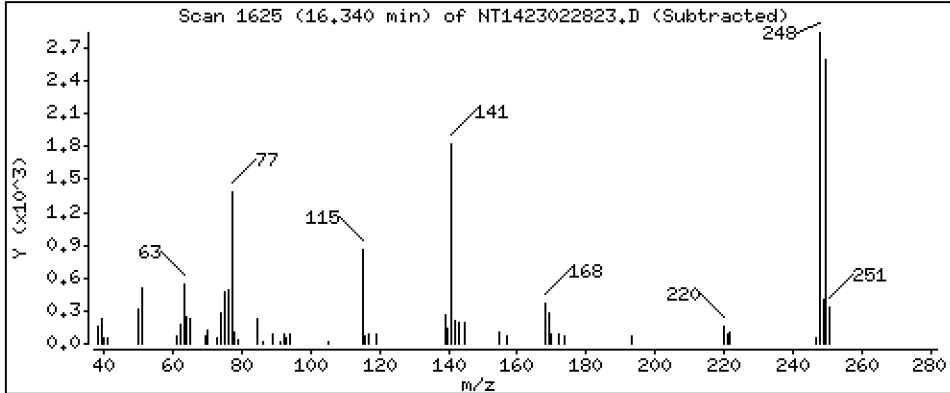
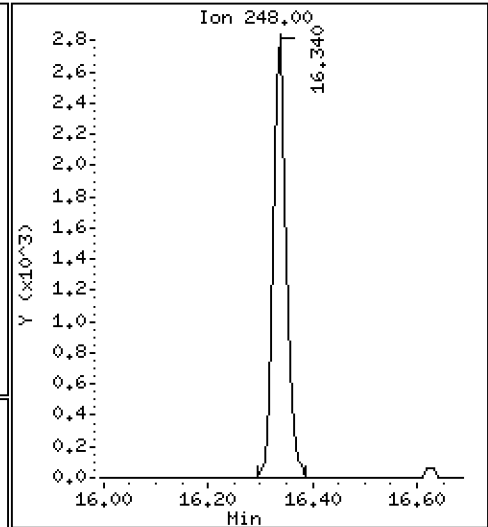
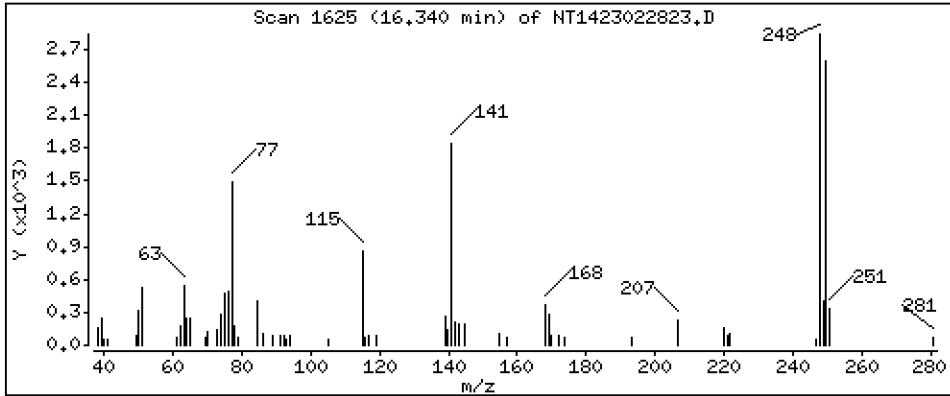
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

56 4-Bromophenyl-phenylether

Concentration: 0.2019 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

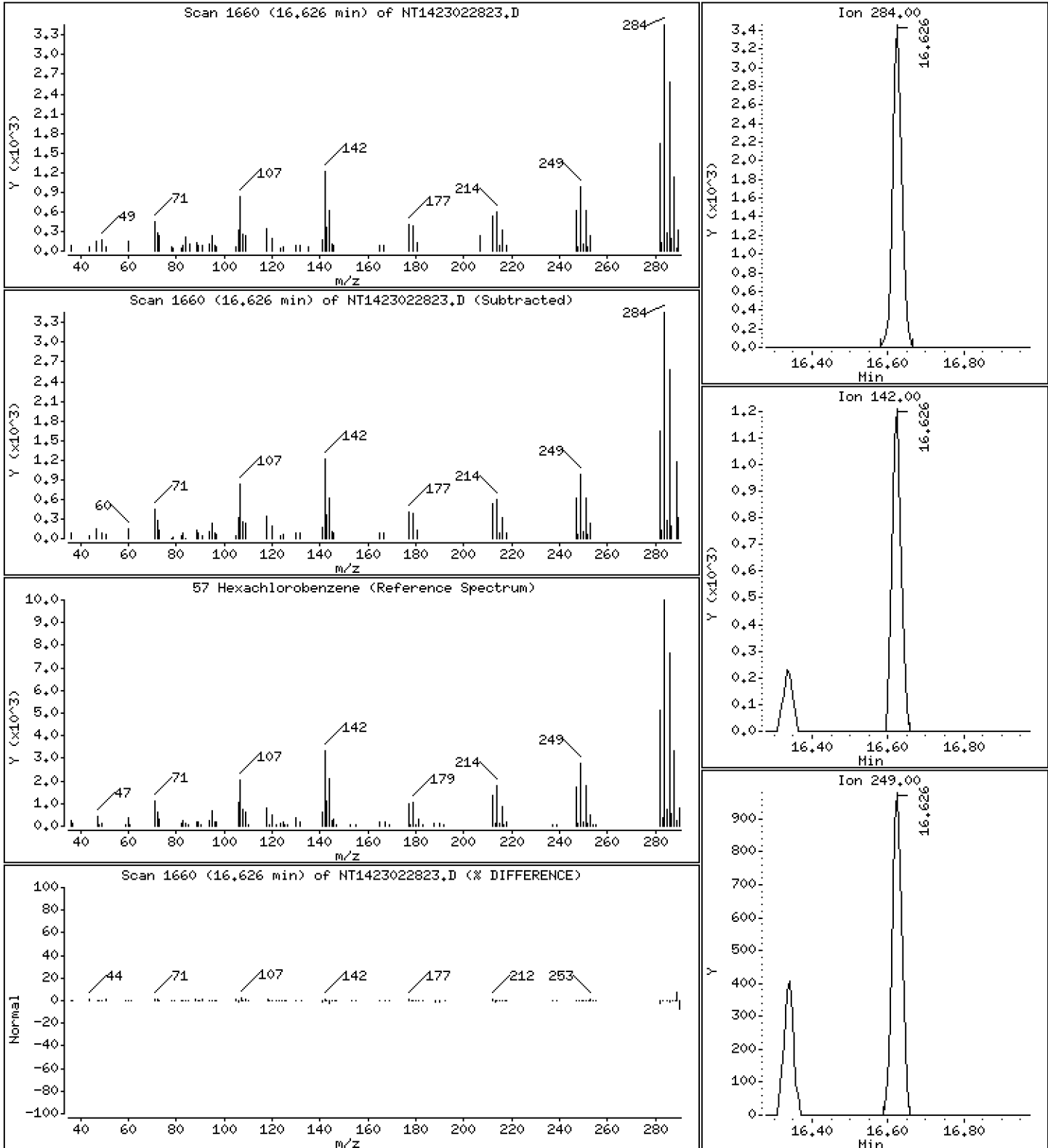
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

57 Hexachlorobenzene

Concentration: 0.2138 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

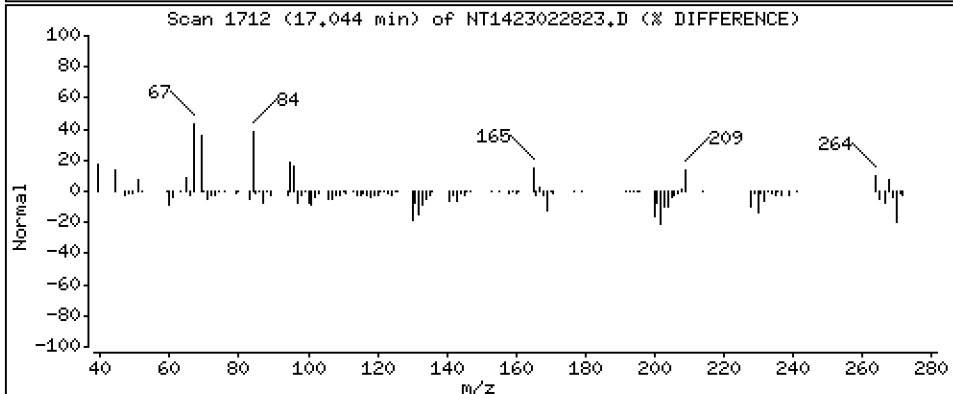
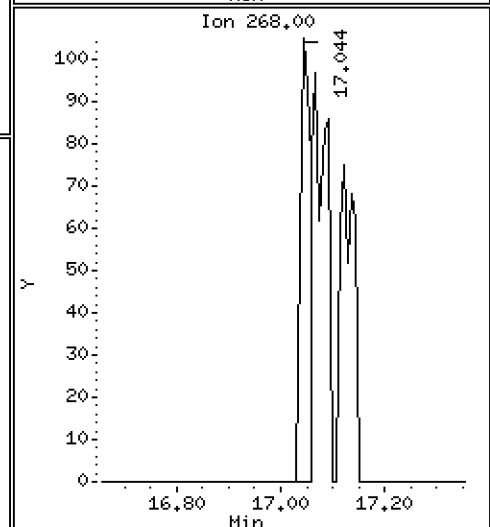
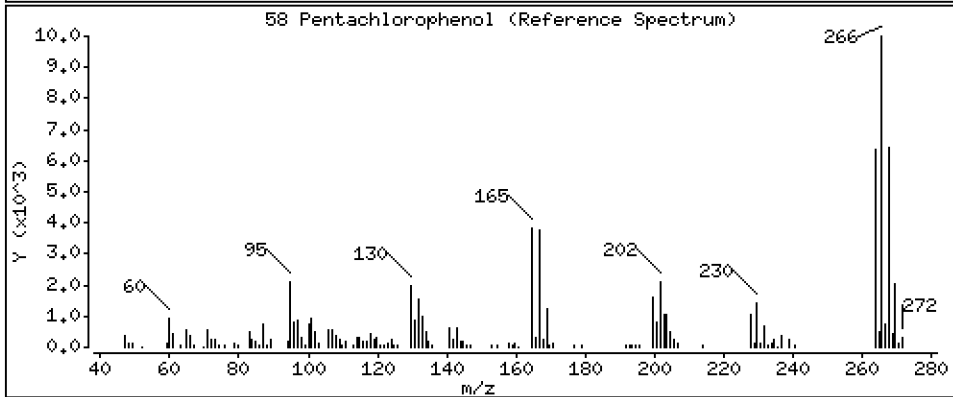
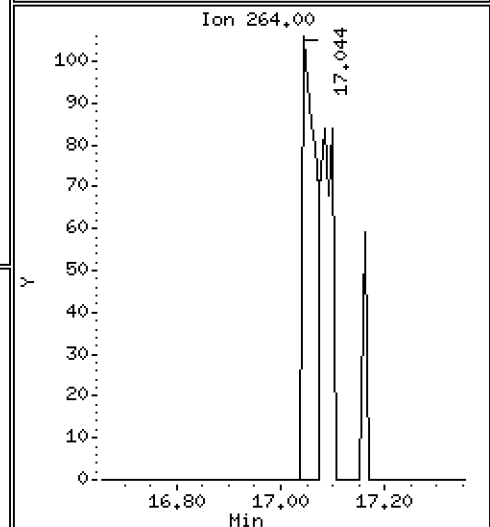
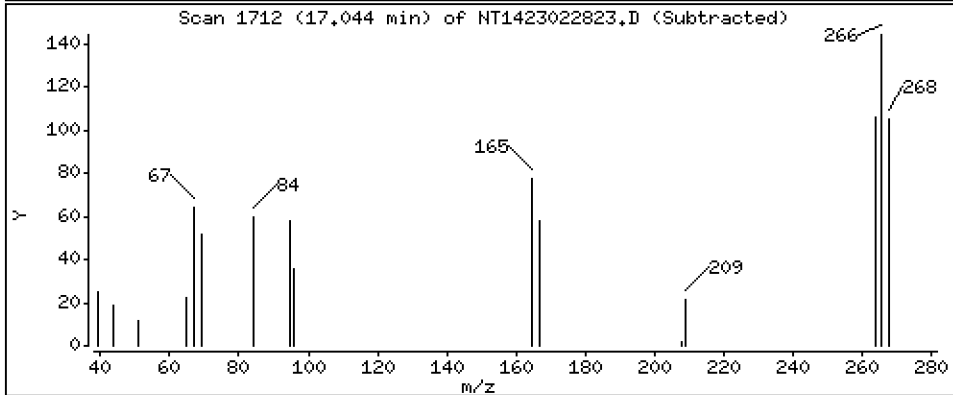
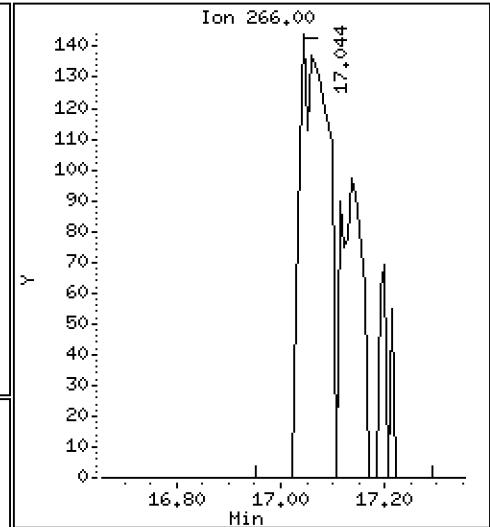
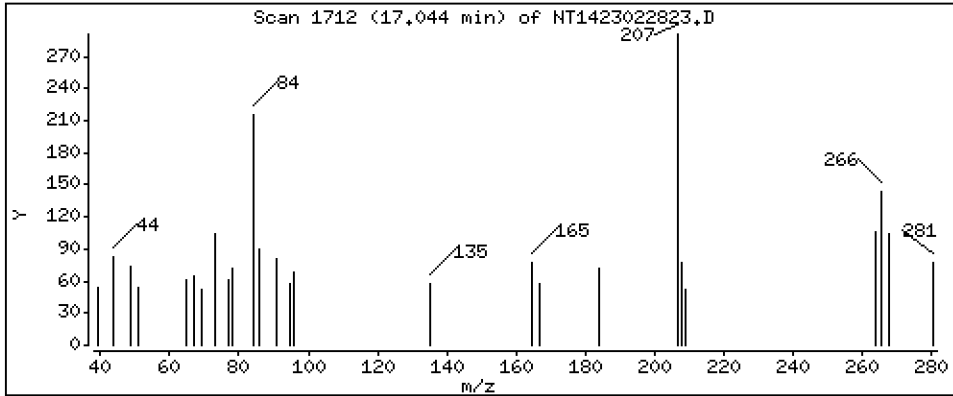
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 0,07199 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

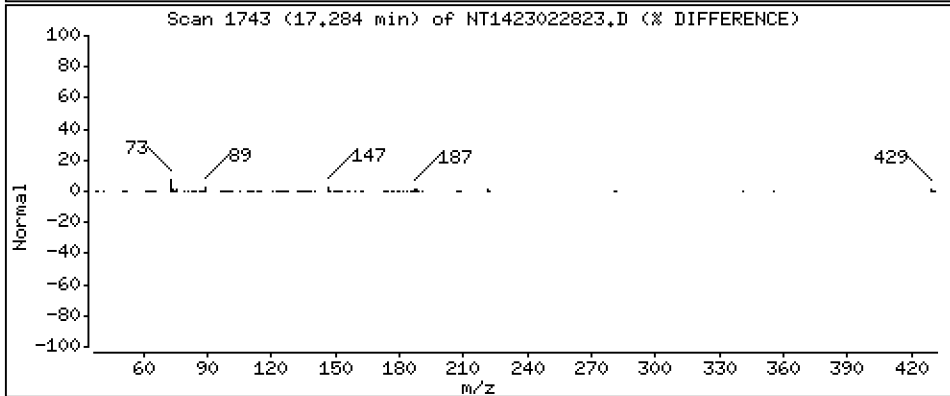
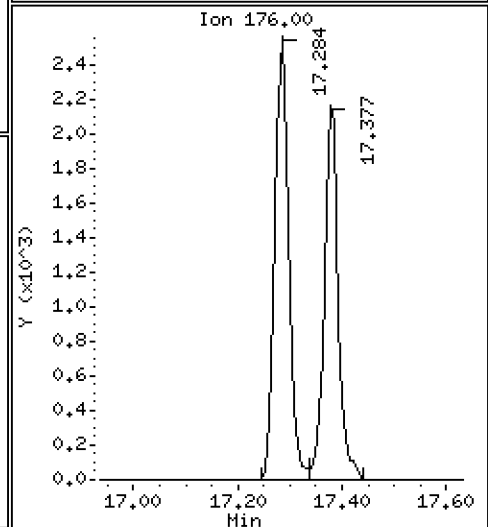
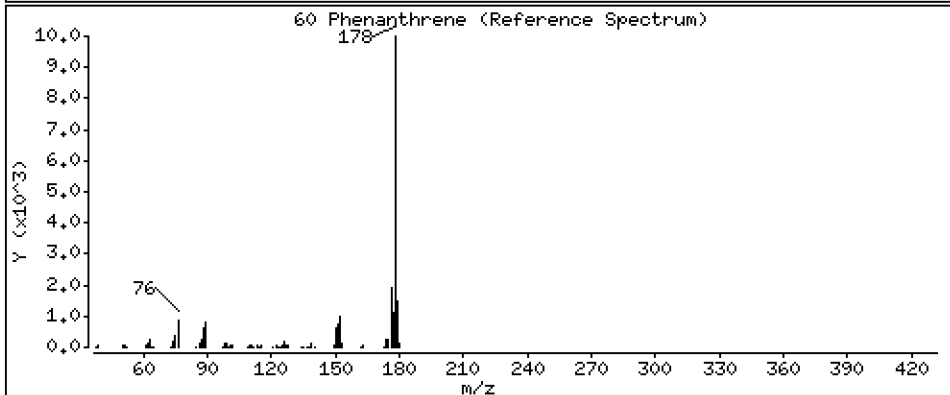
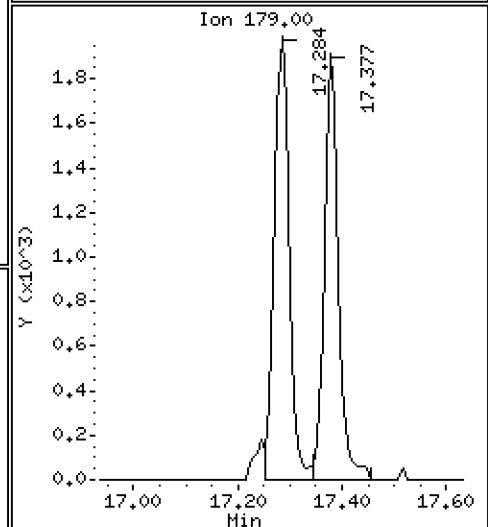
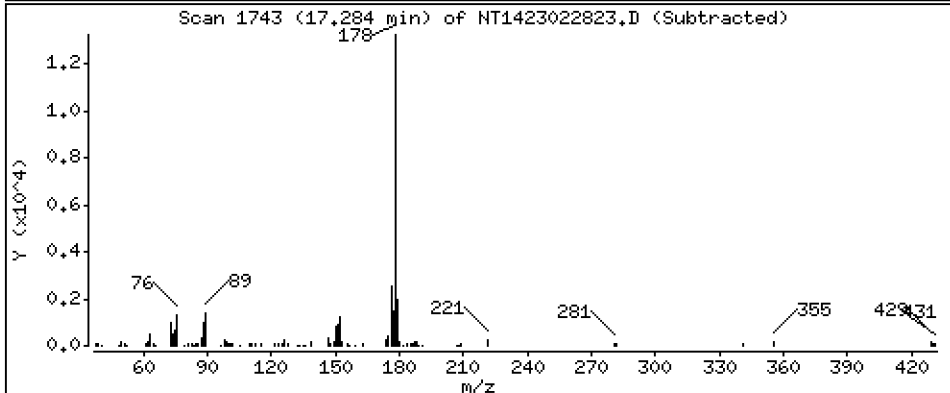
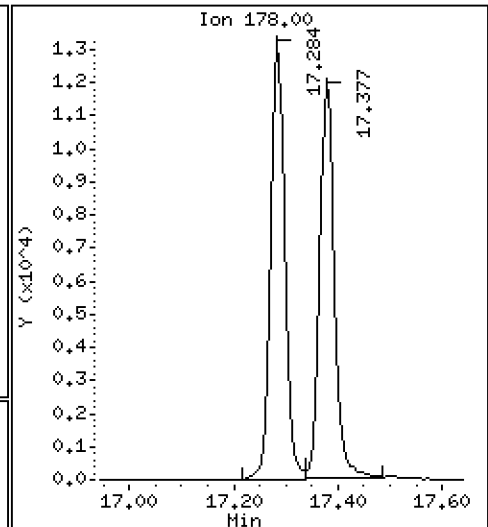
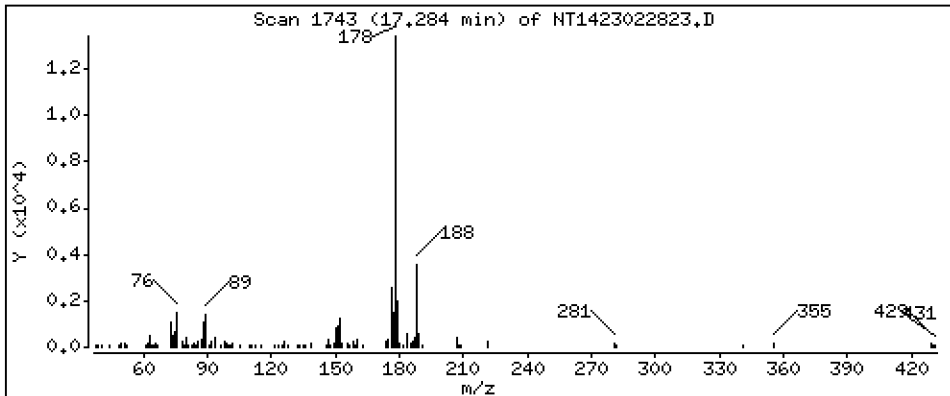
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

60 Phenanthrene

Concentration: 0.2061 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

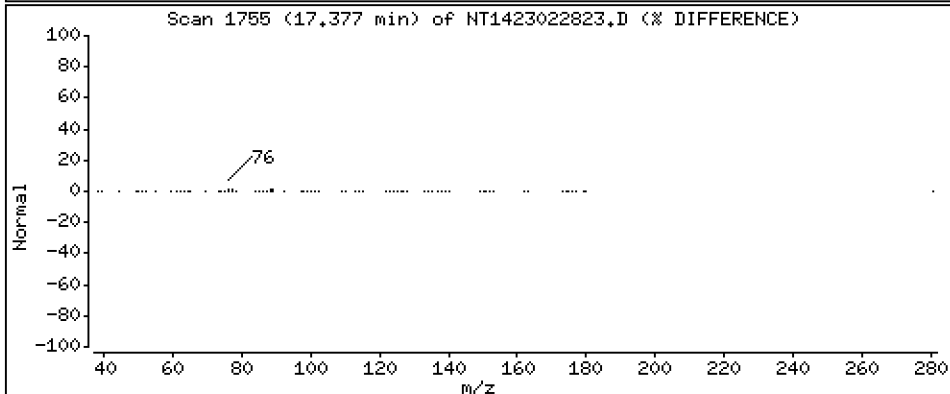
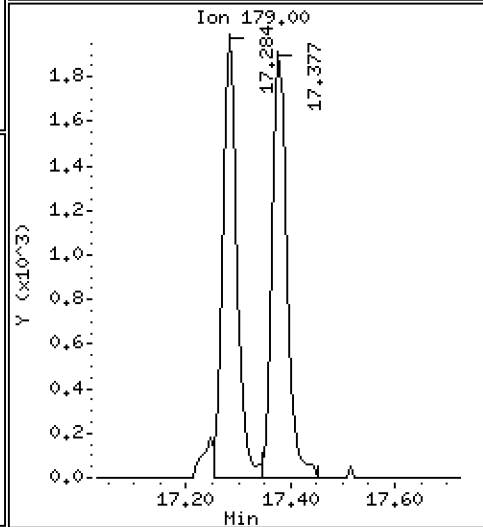
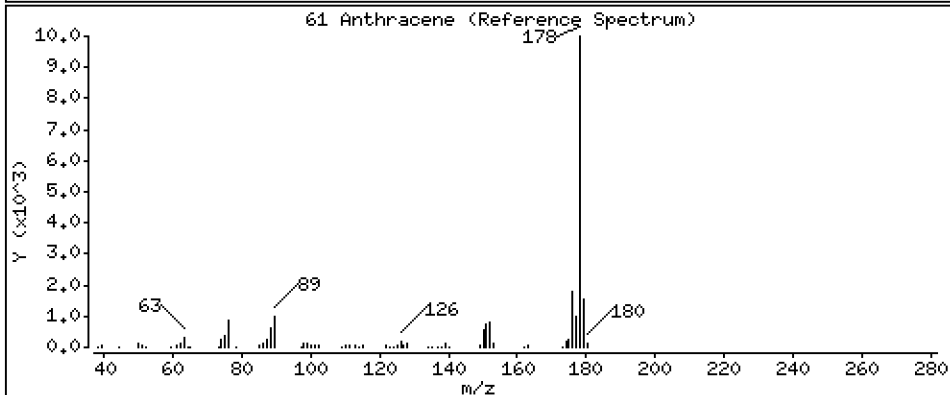
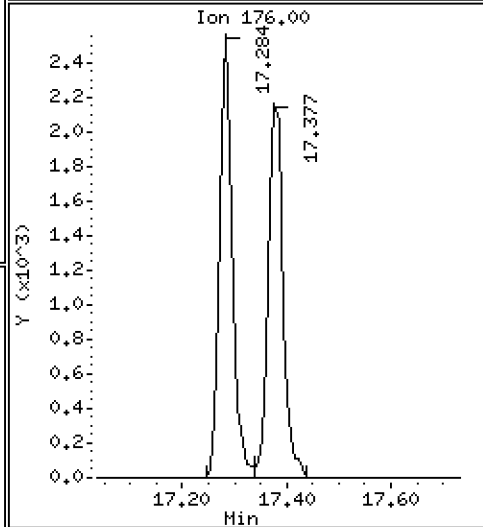
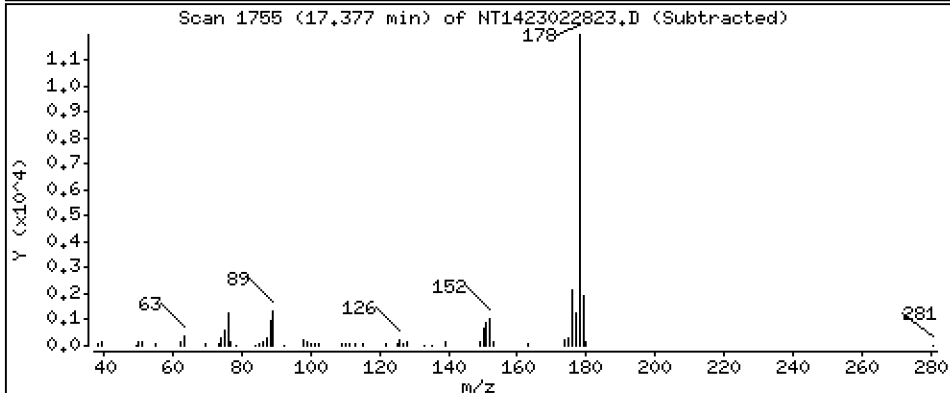
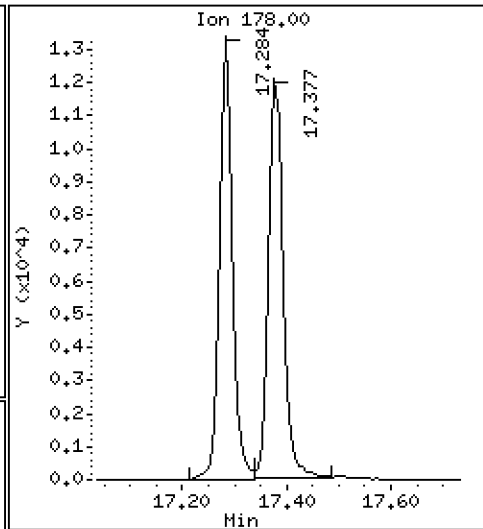
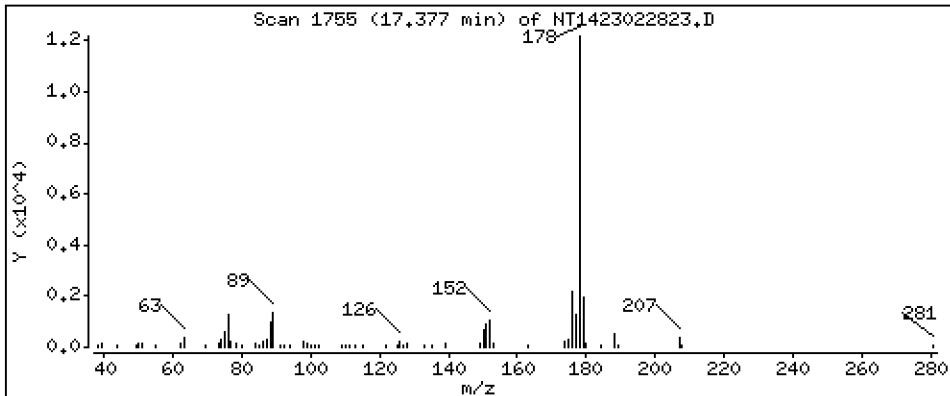
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 0,2046 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

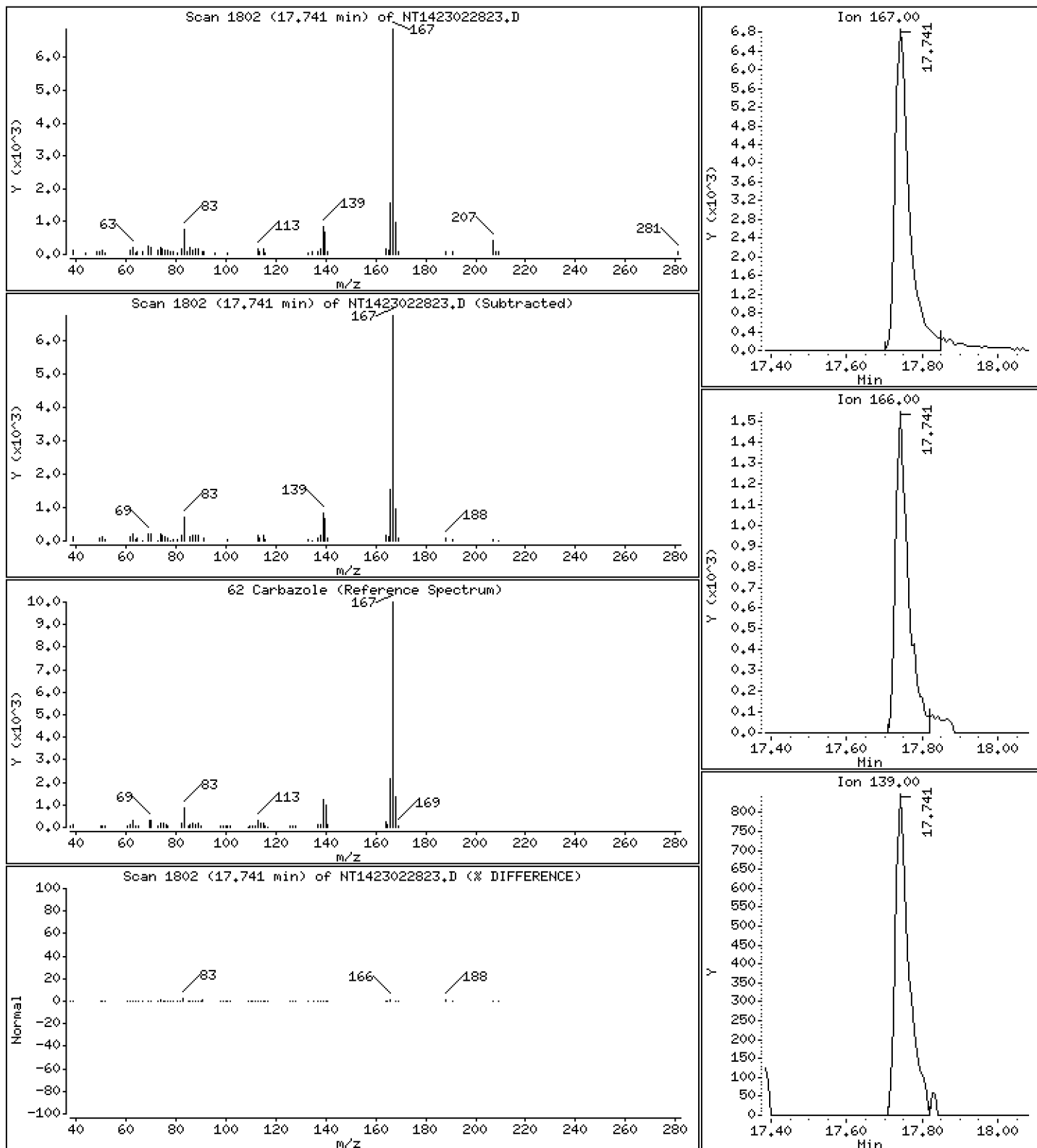
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 0,1855 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

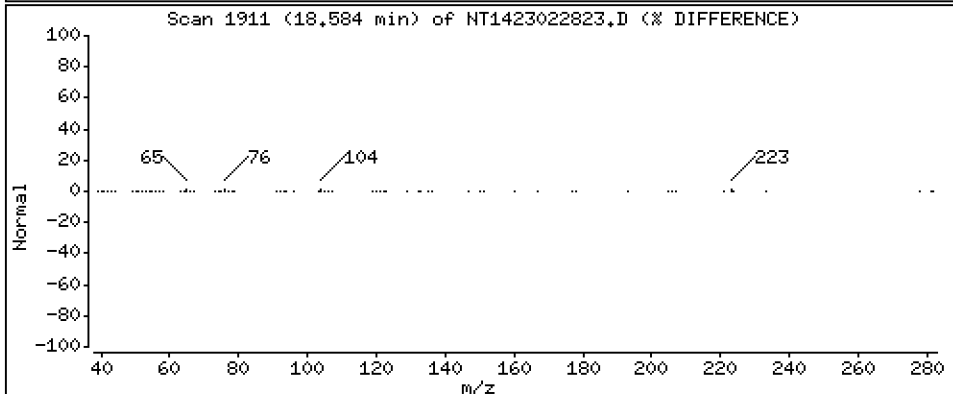
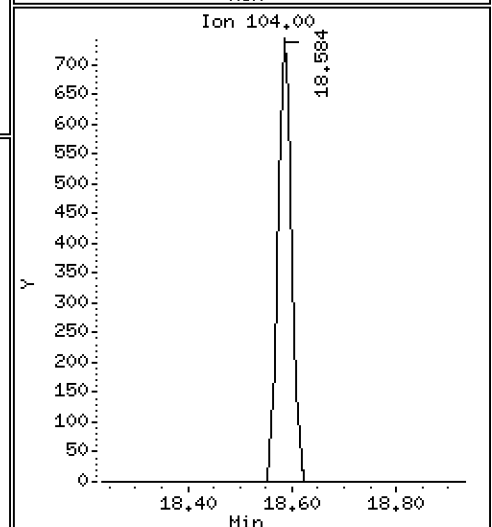
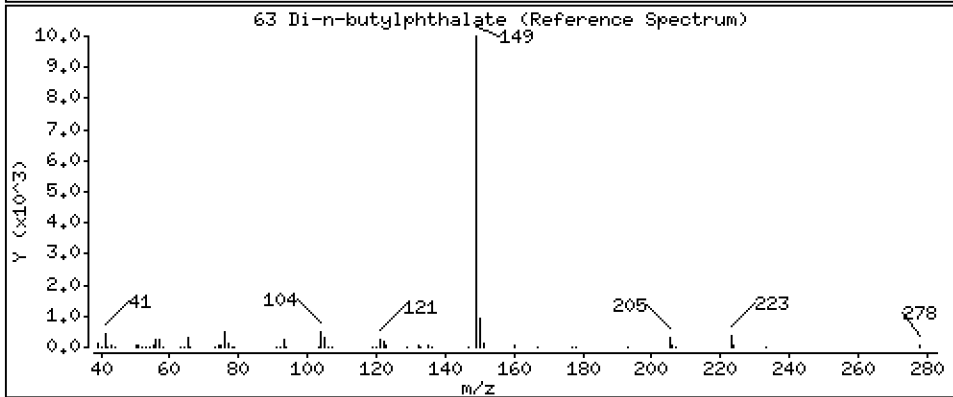
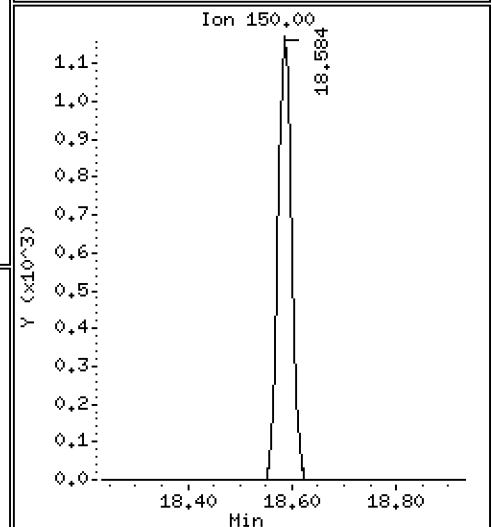
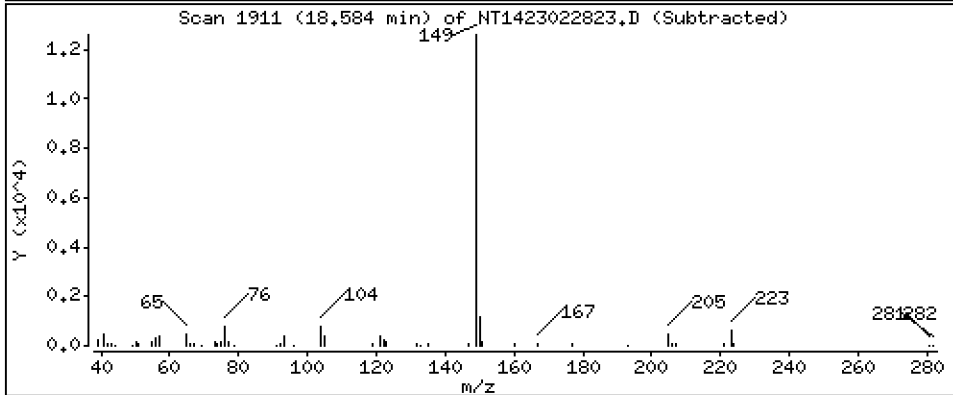
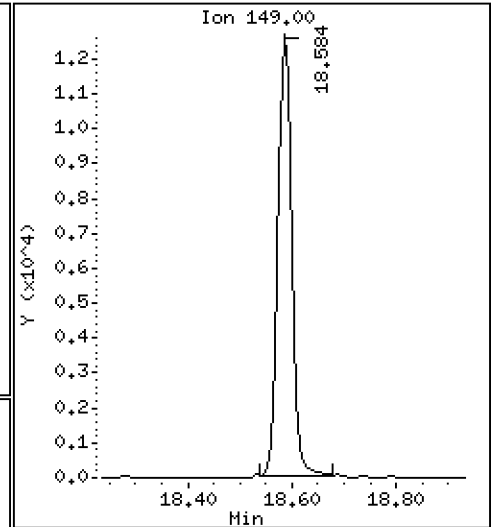
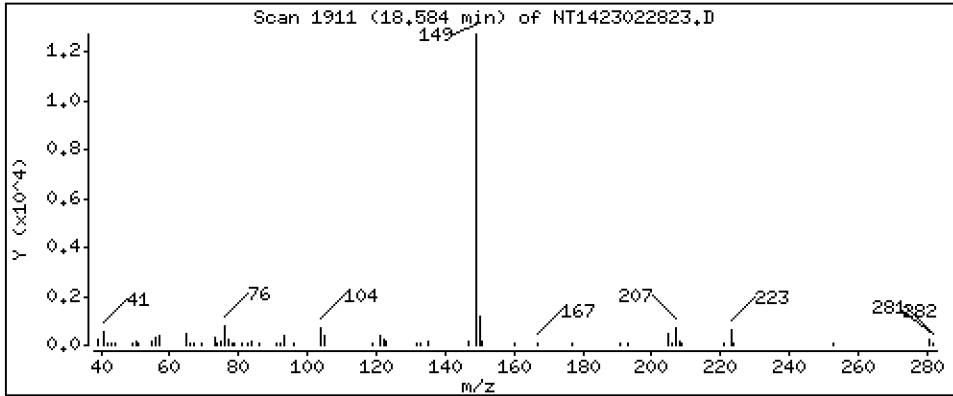
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 0,1791 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

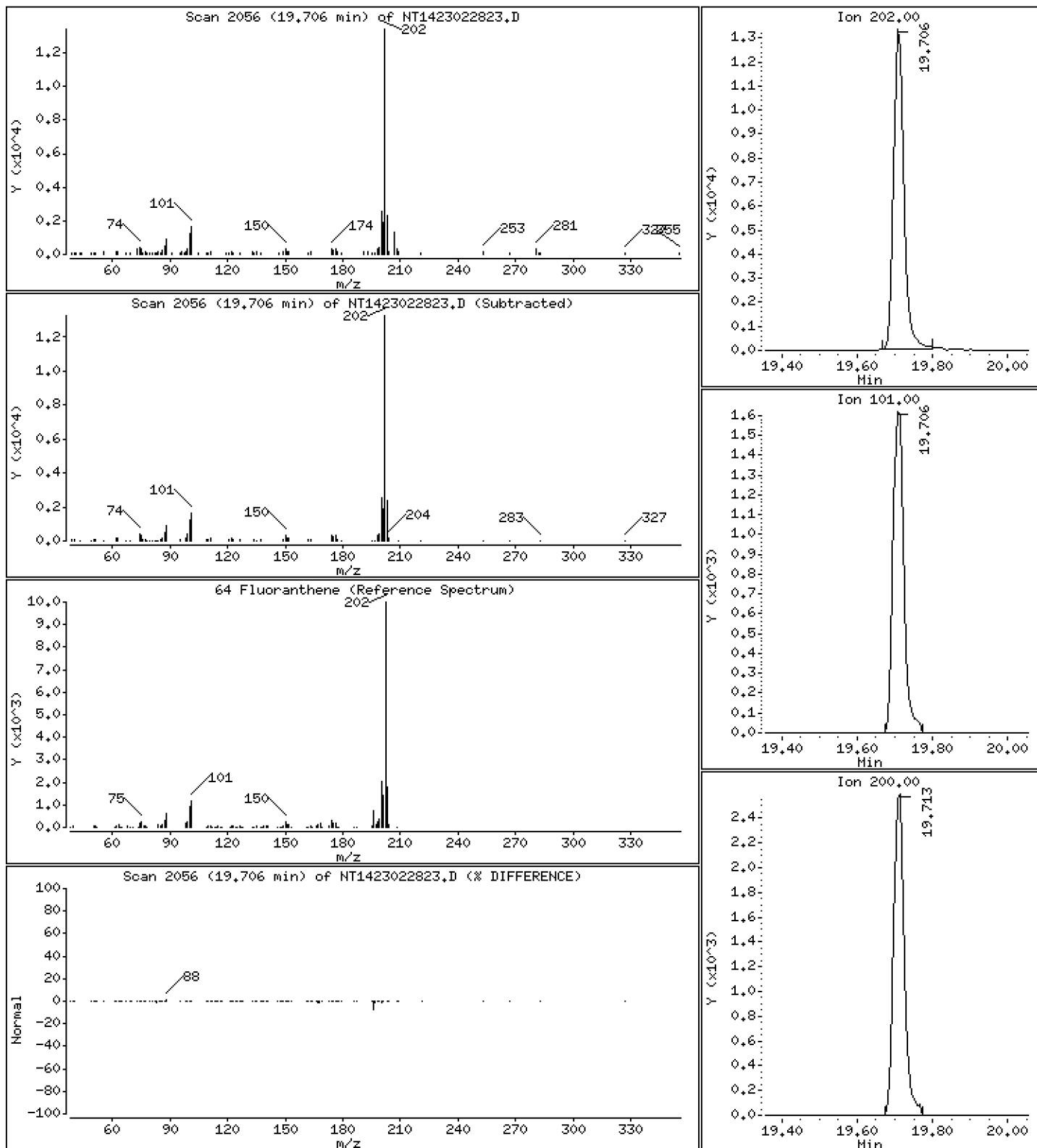
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 0,1972 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

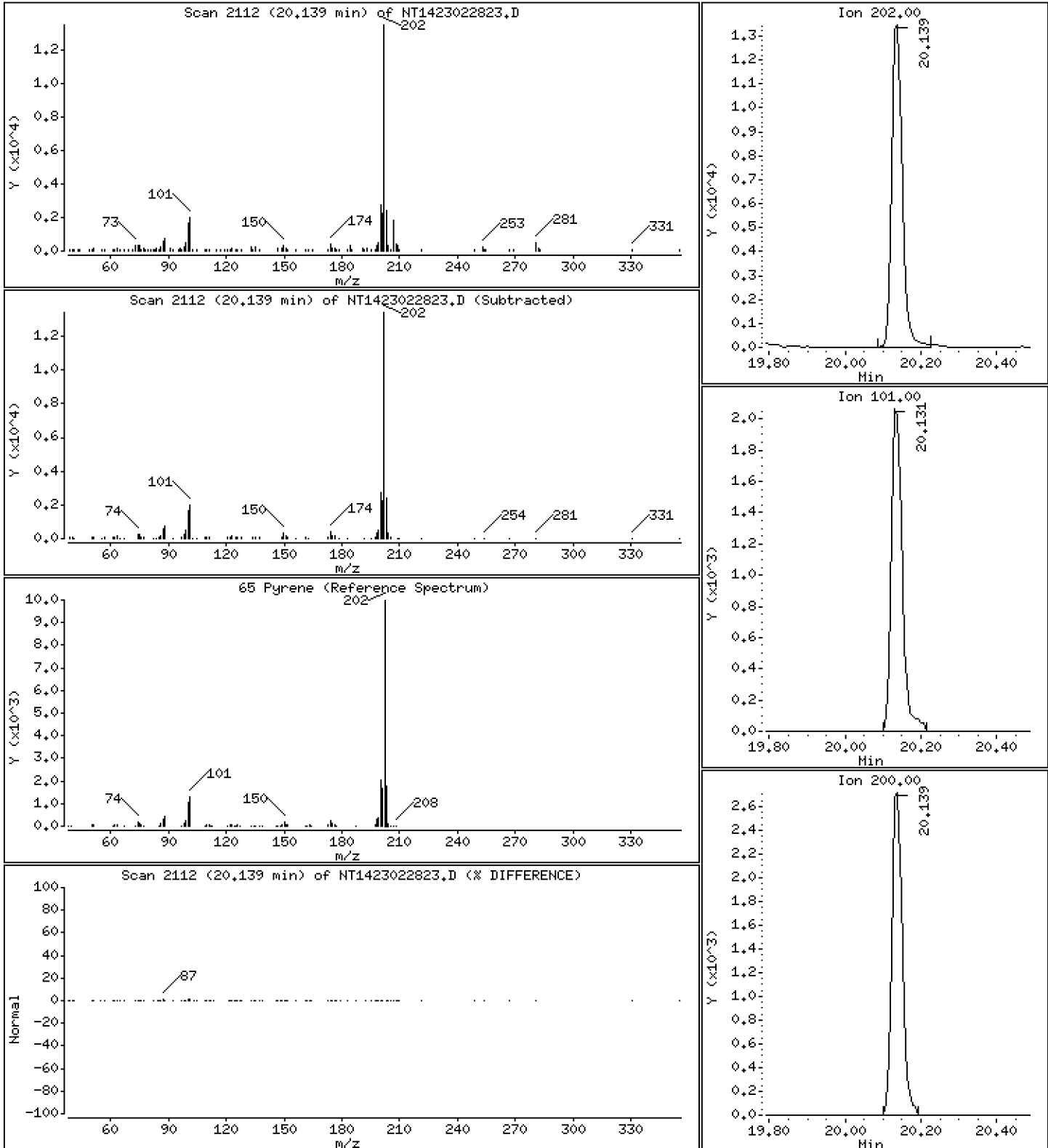
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 0,1944 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

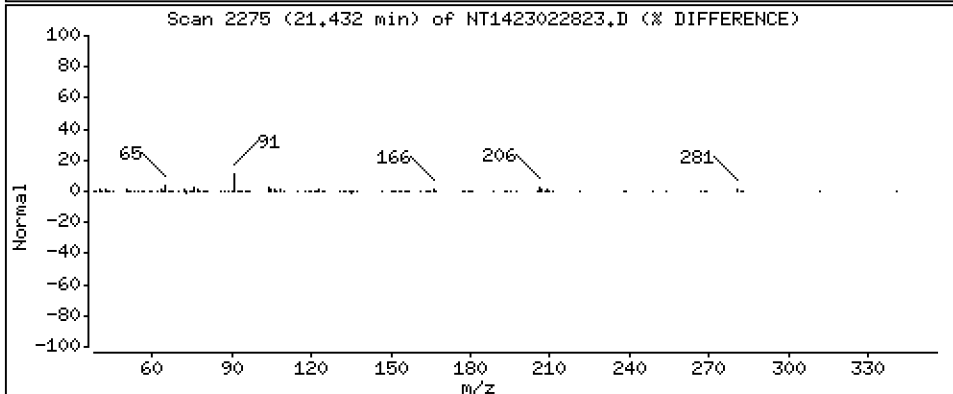
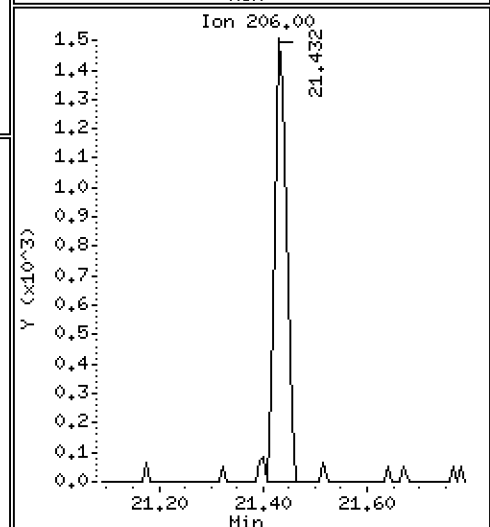
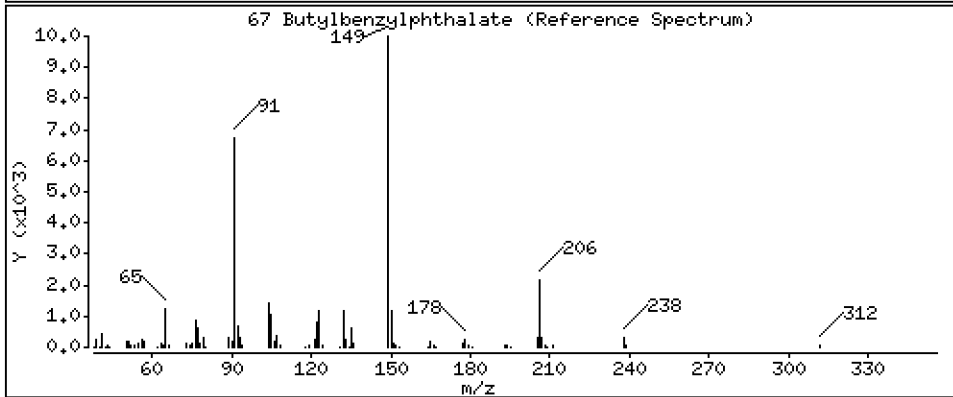
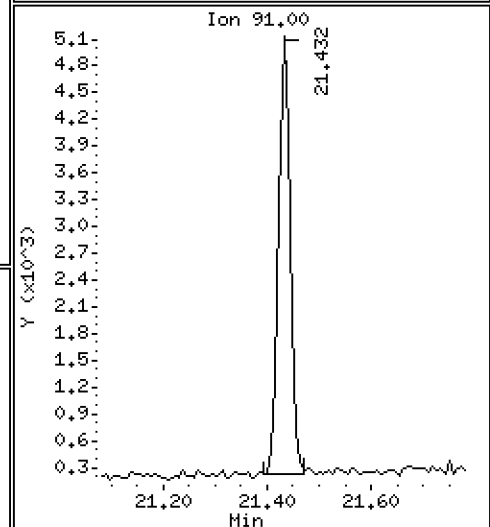
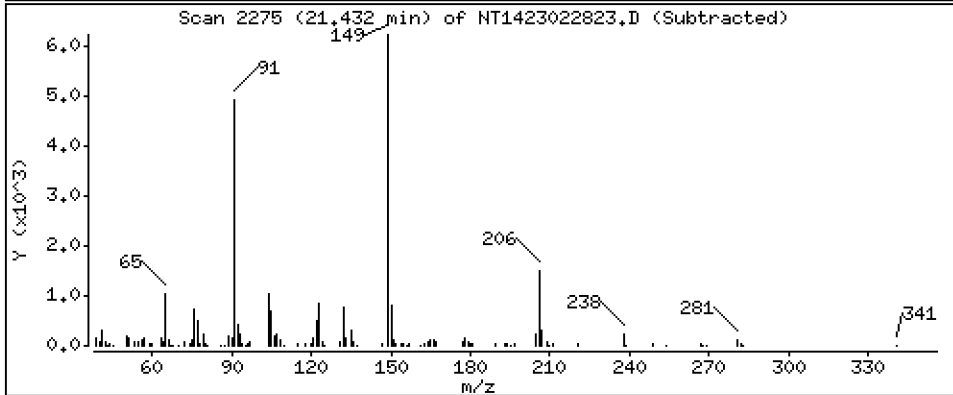
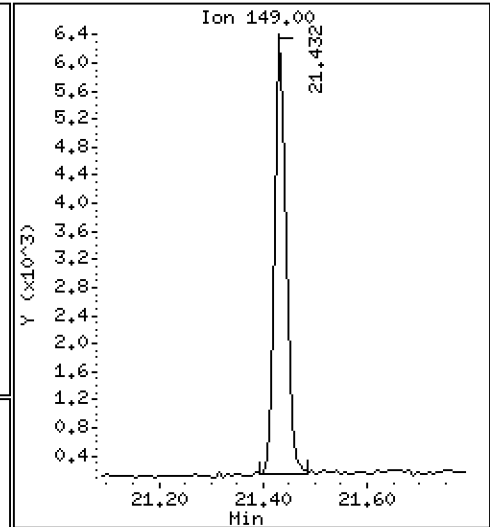
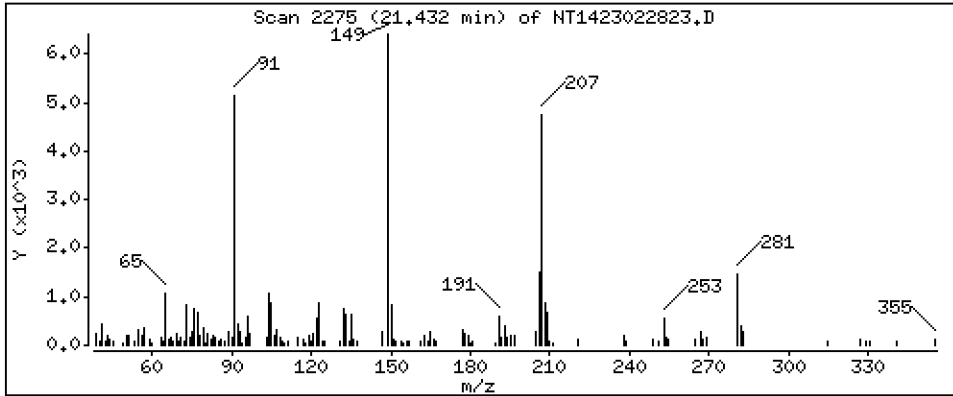
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 0,2043 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

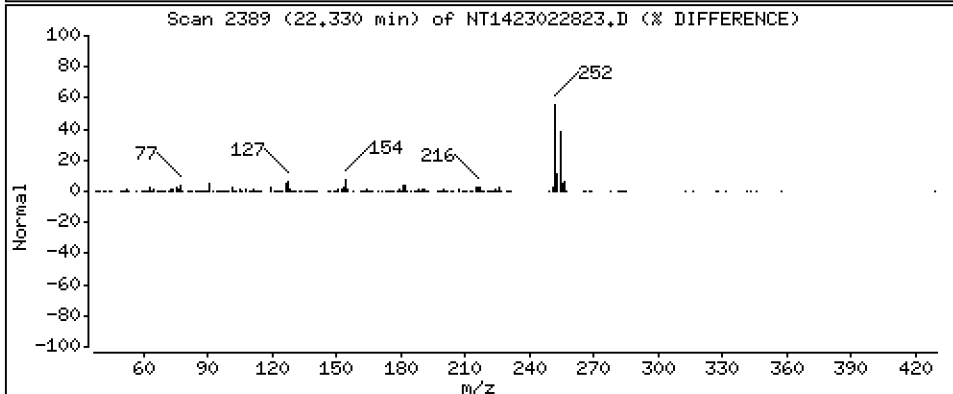
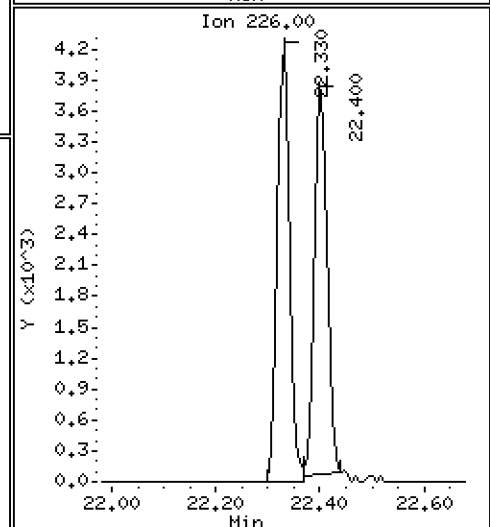
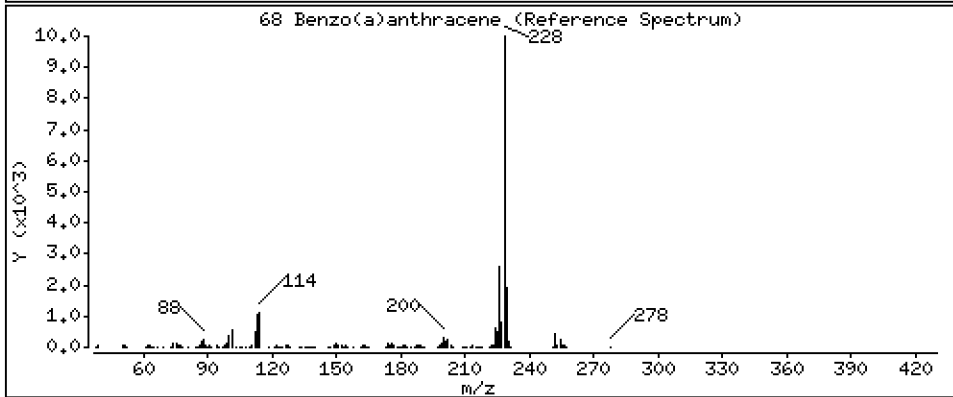
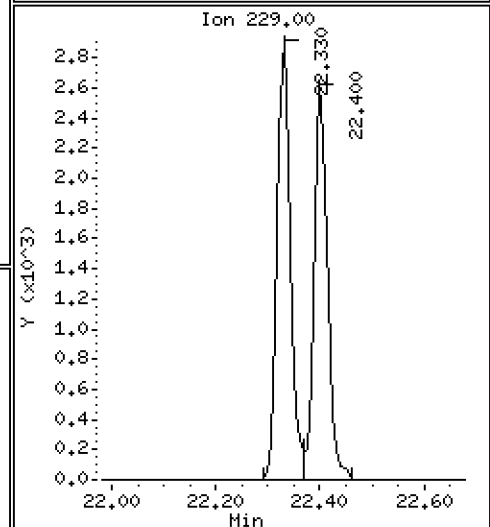
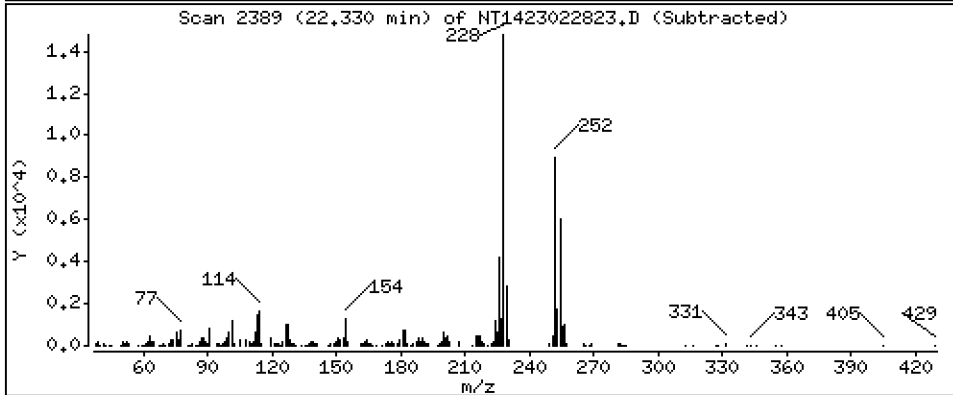
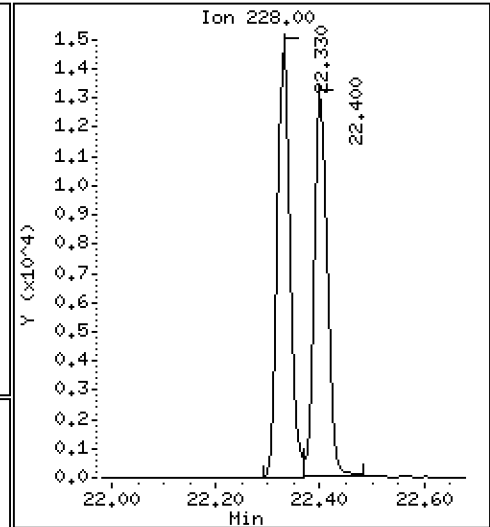
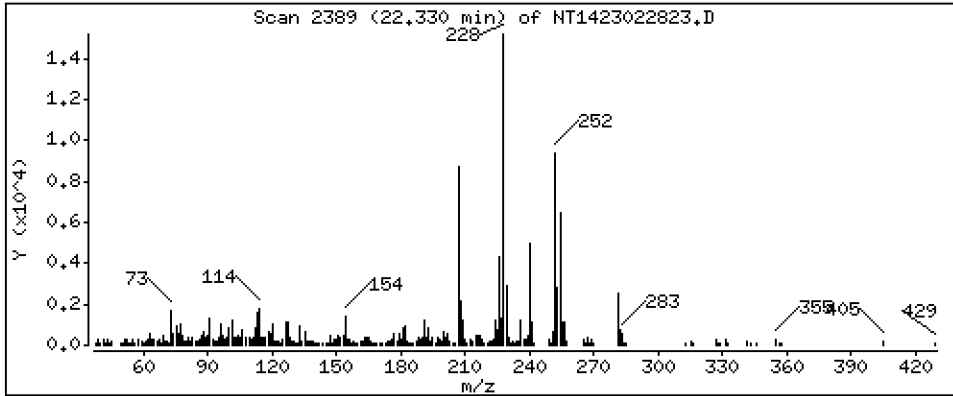
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 0,2215 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

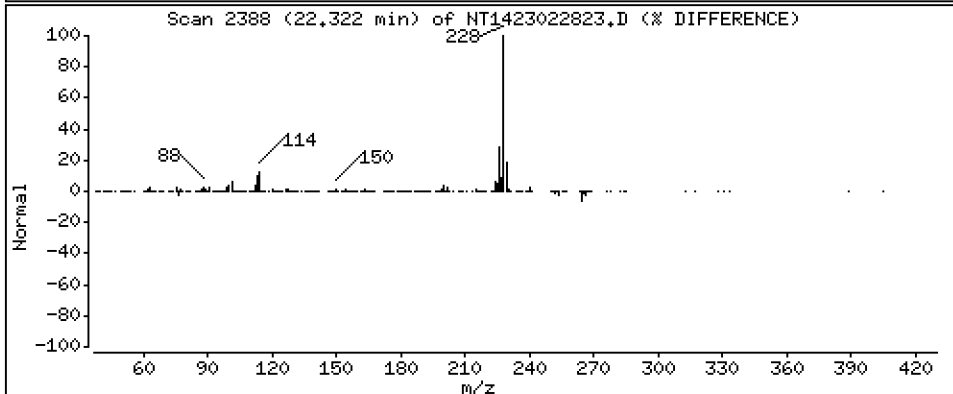
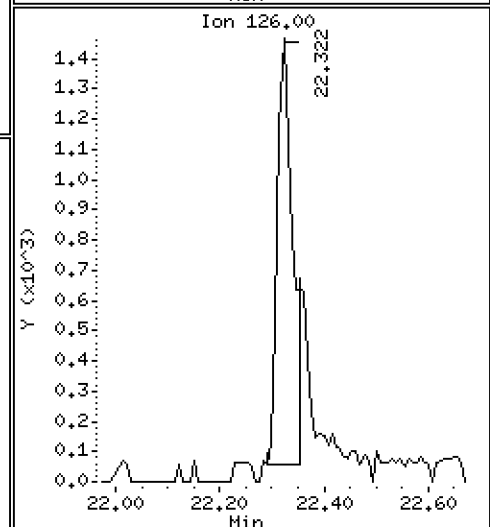
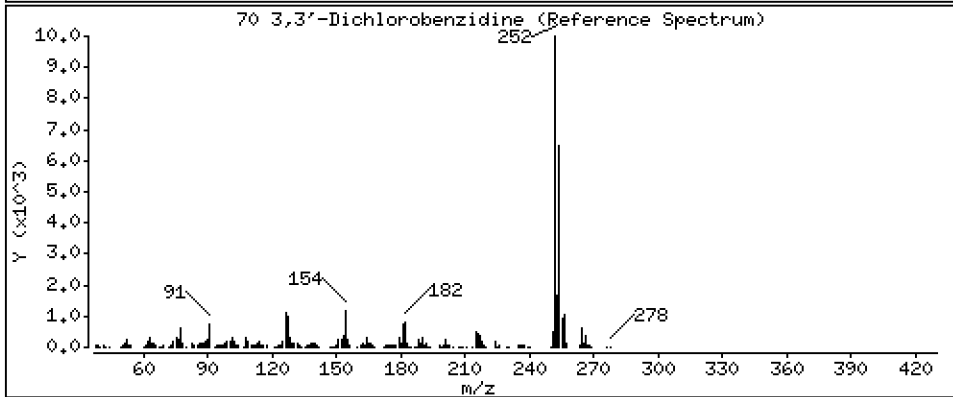
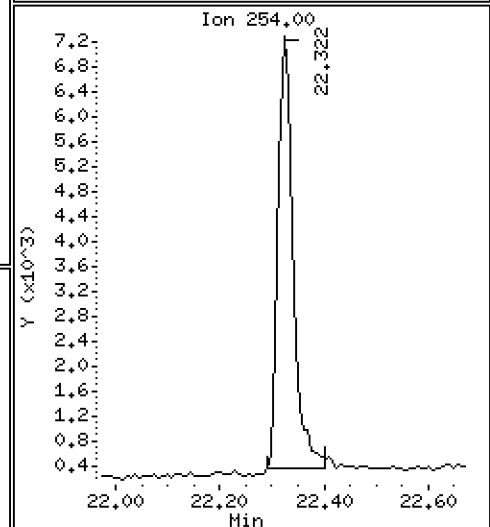
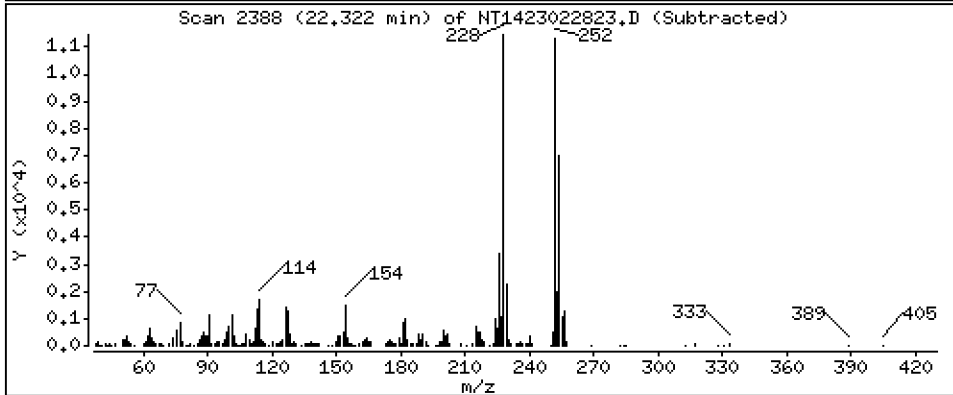
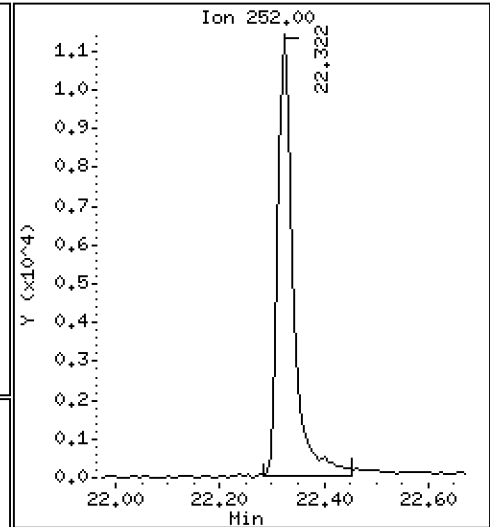
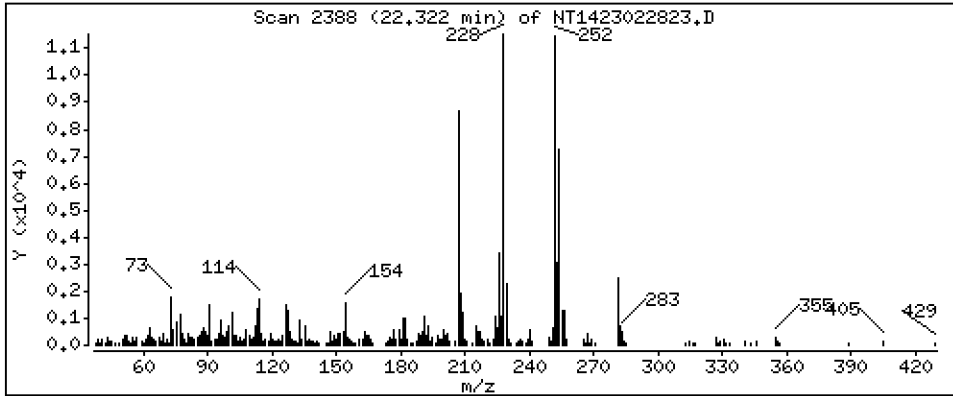
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

70 3,3'-Dichlorobenzidine

Concentration: 0,7330 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

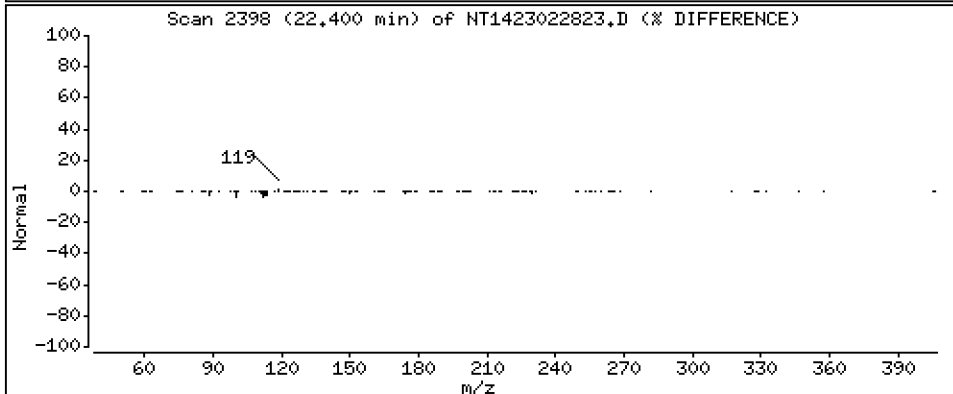
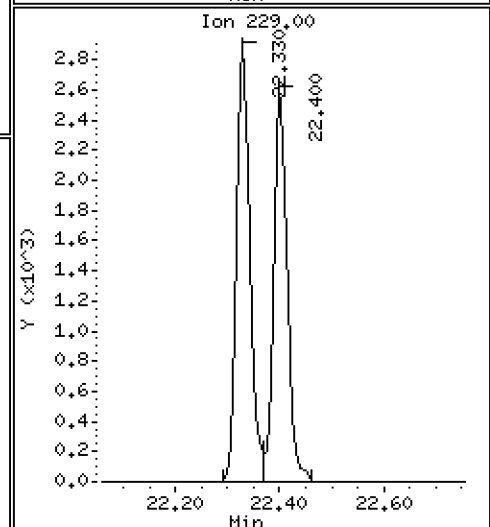
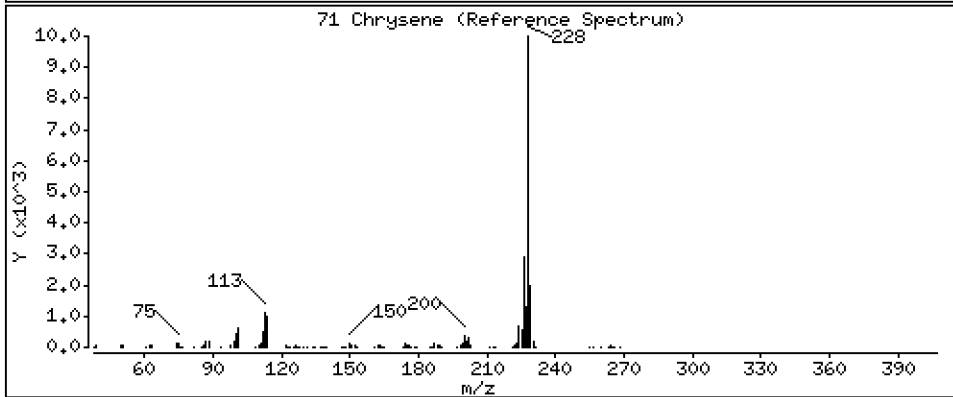
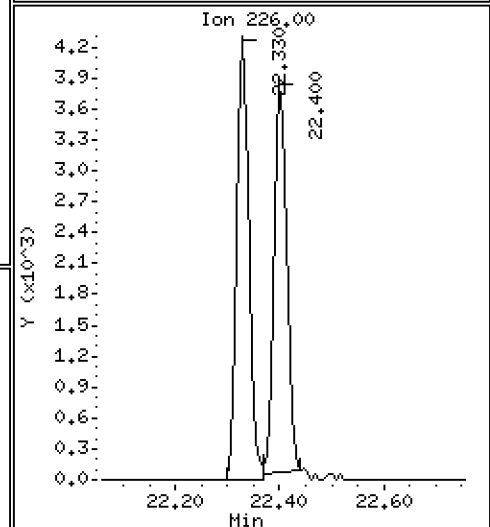
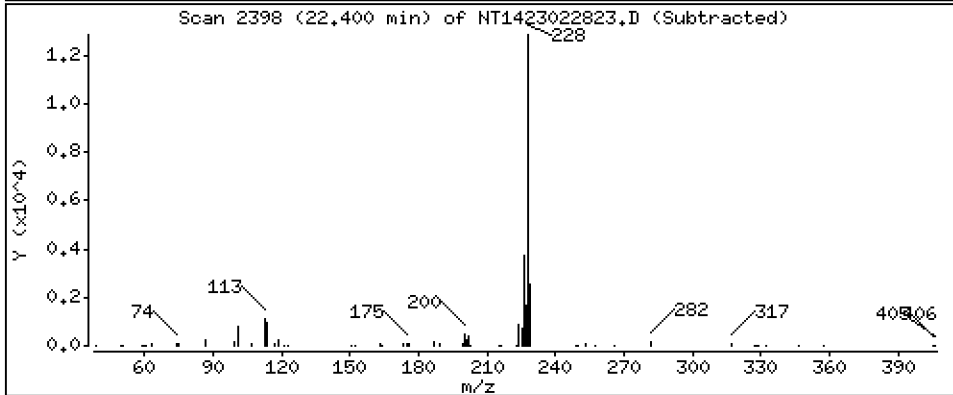
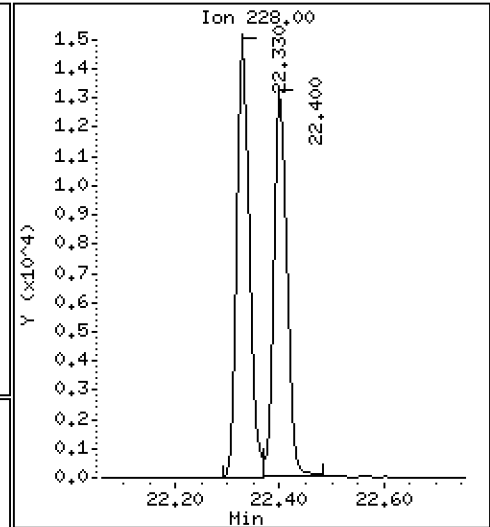
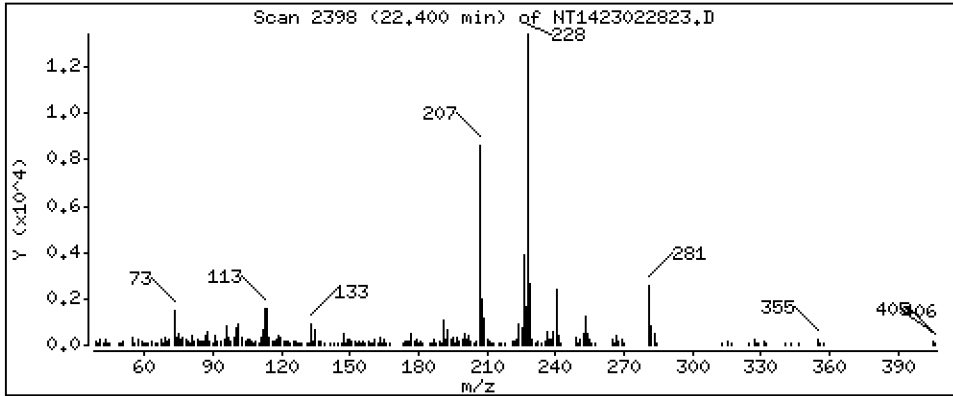
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 0,2153 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

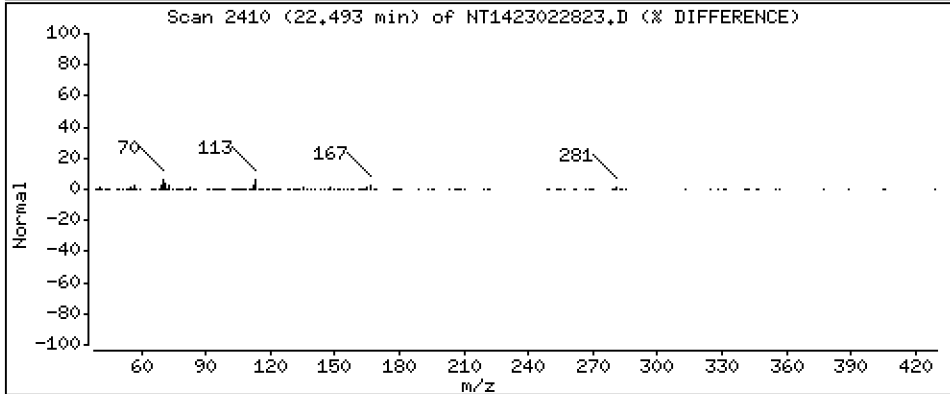
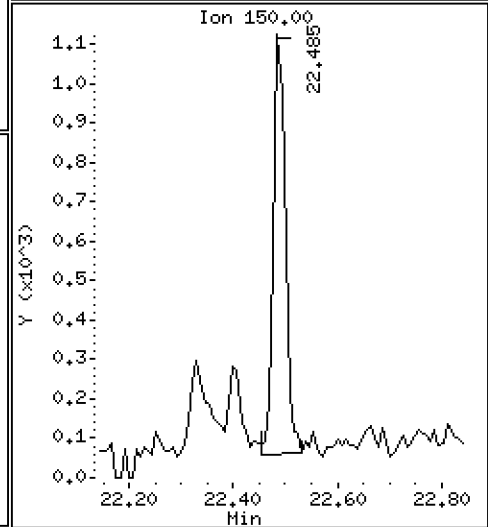
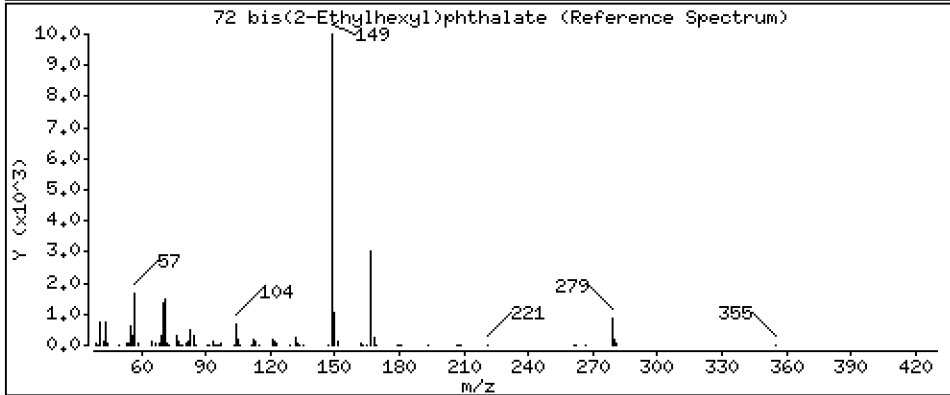
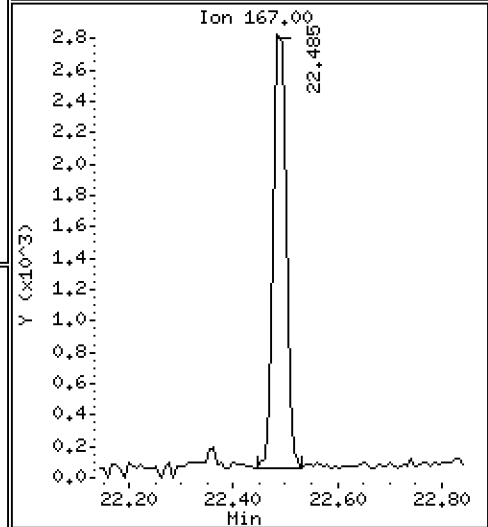
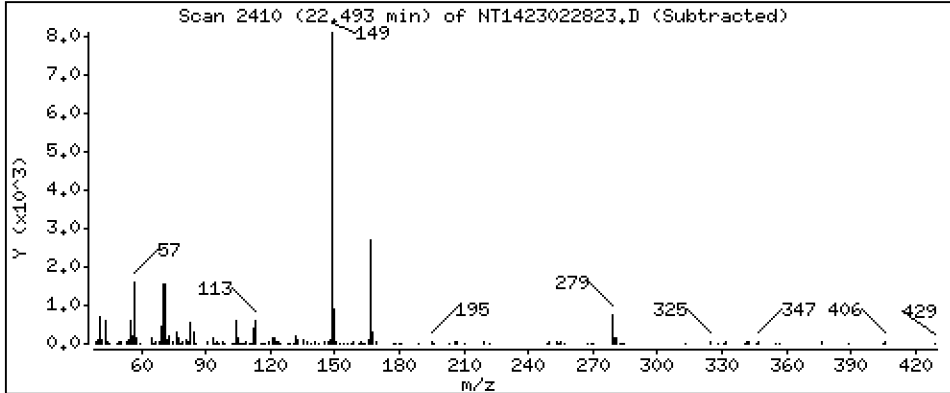
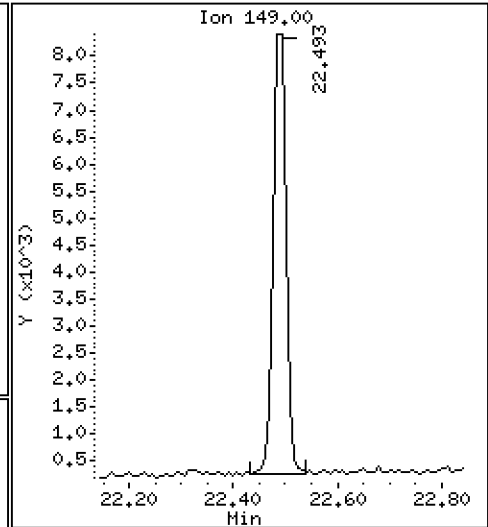
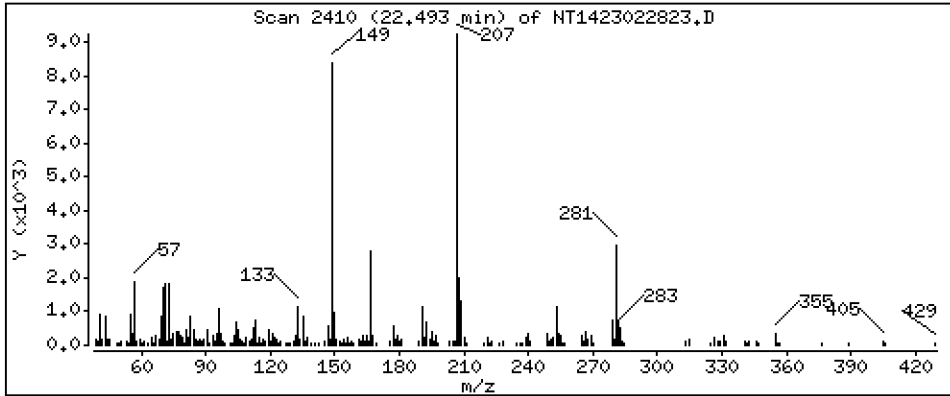
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 0,1802 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

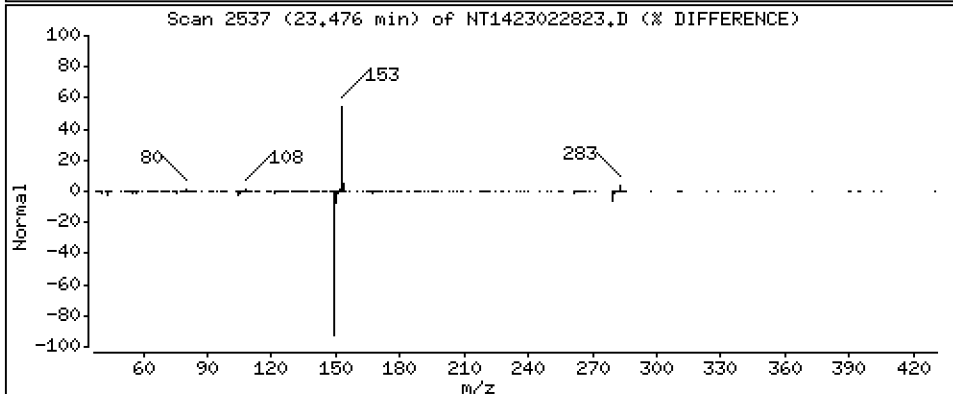
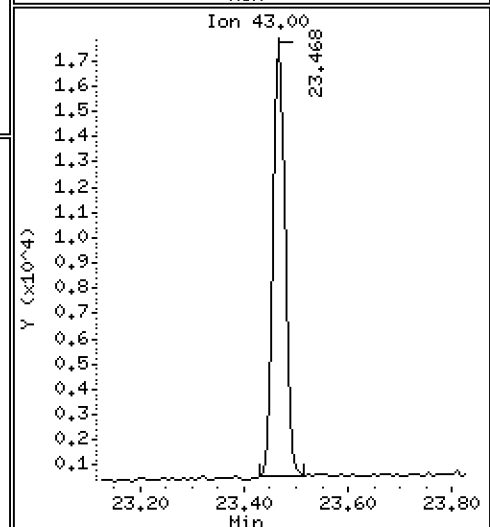
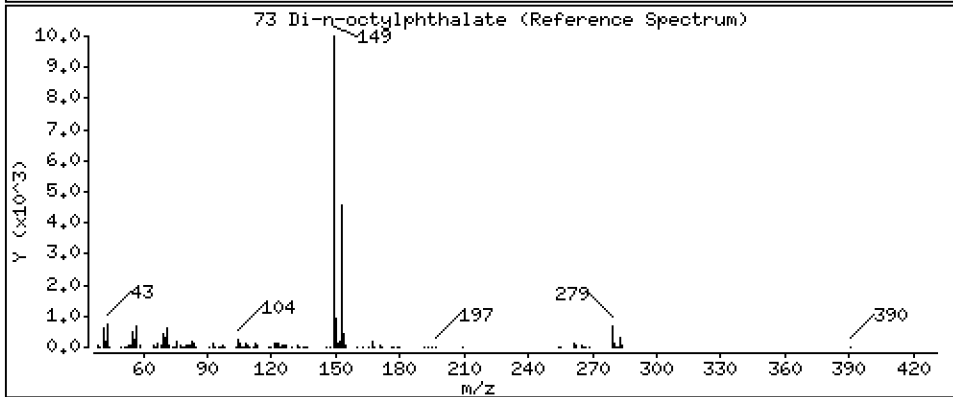
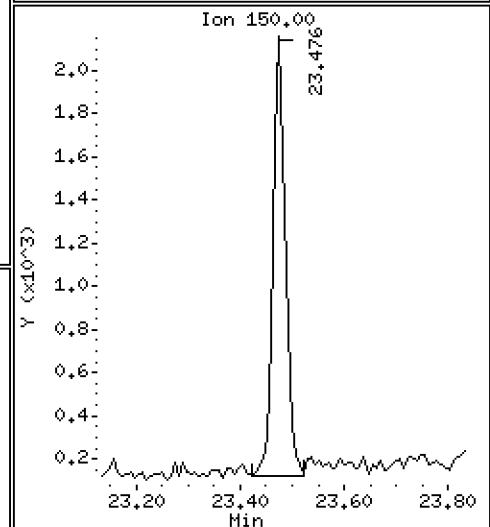
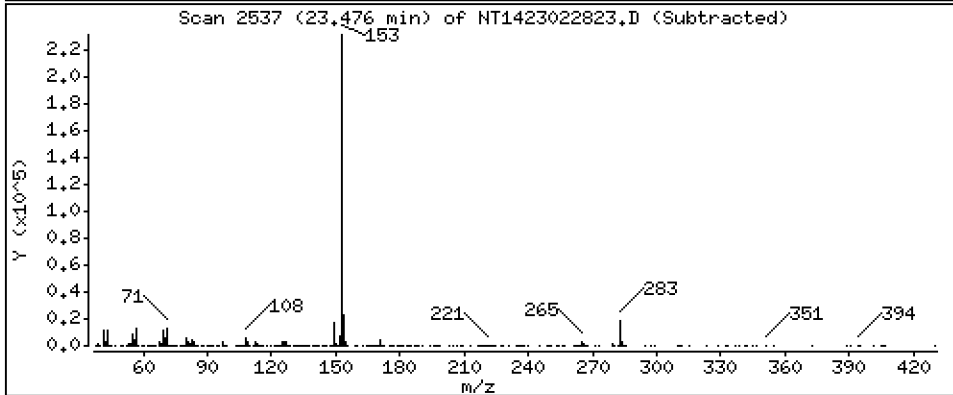
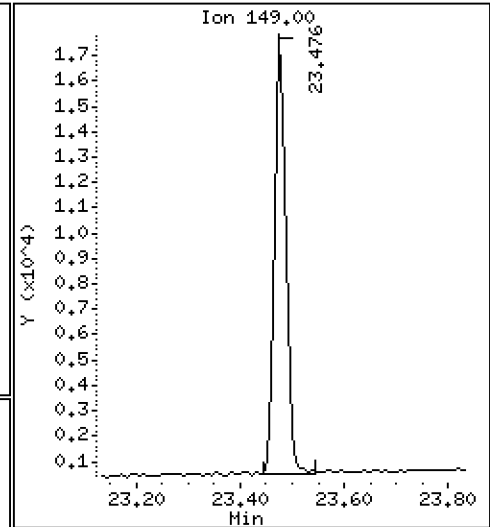
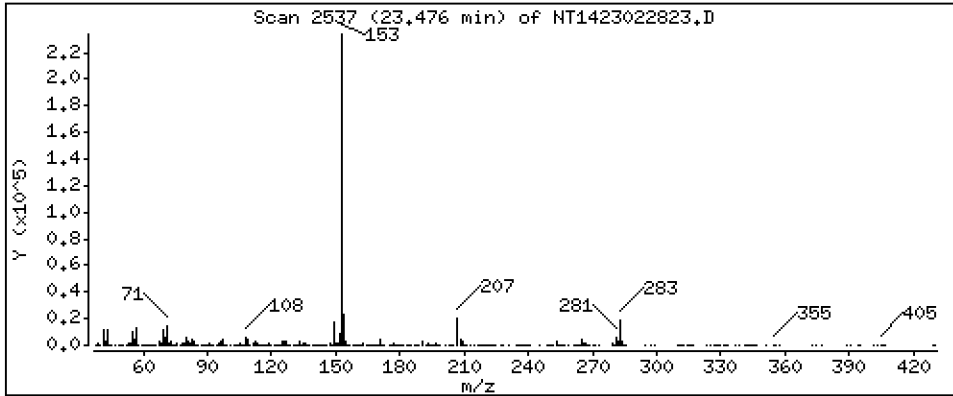
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 0,2023 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

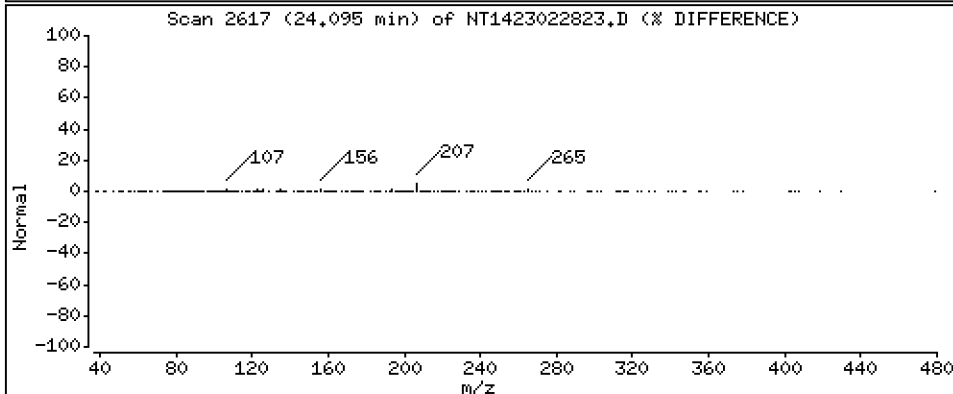
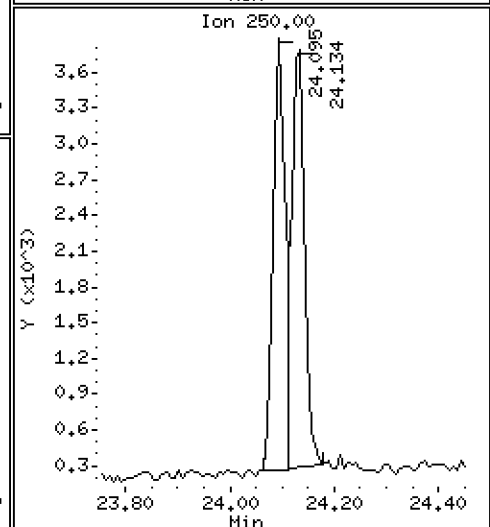
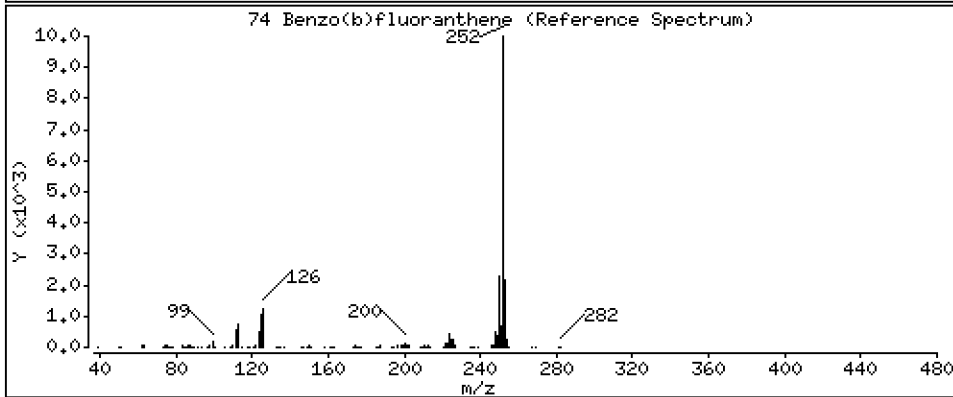
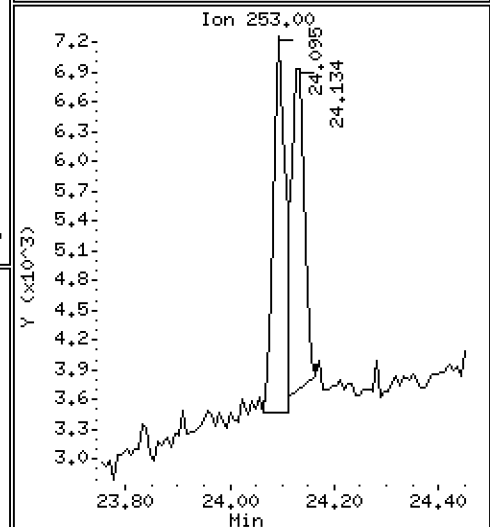
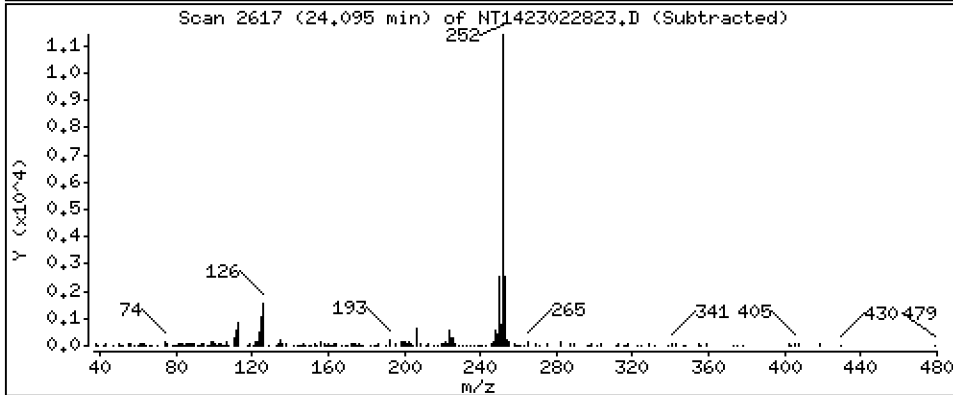
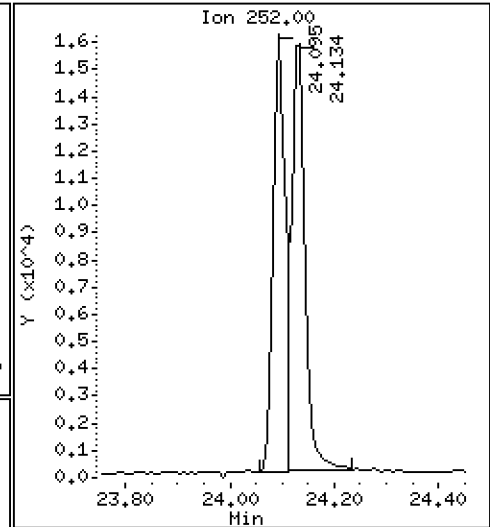
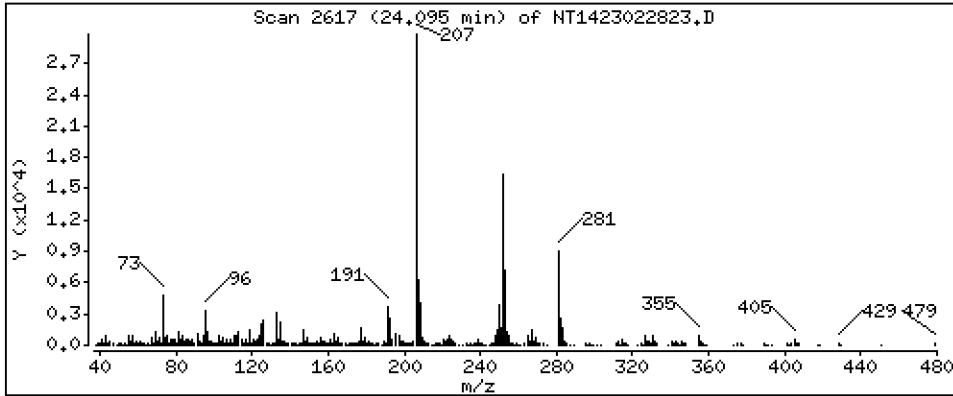
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 0,1956 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

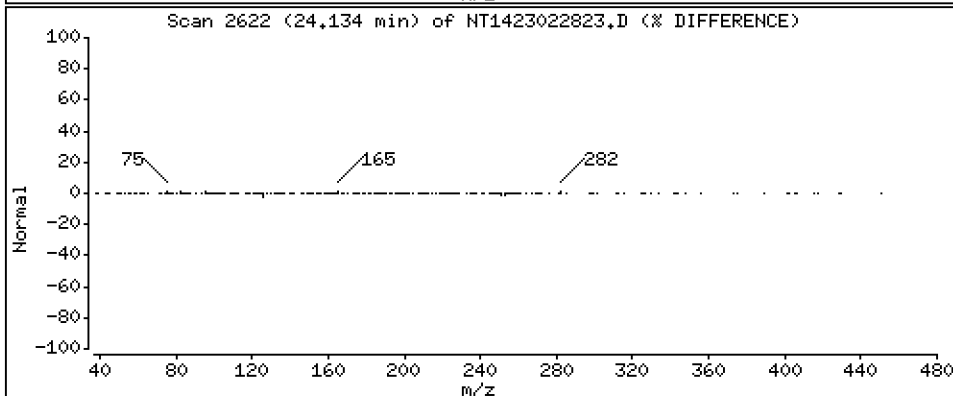
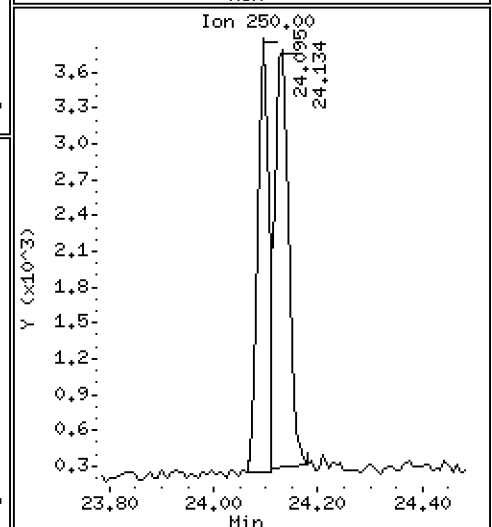
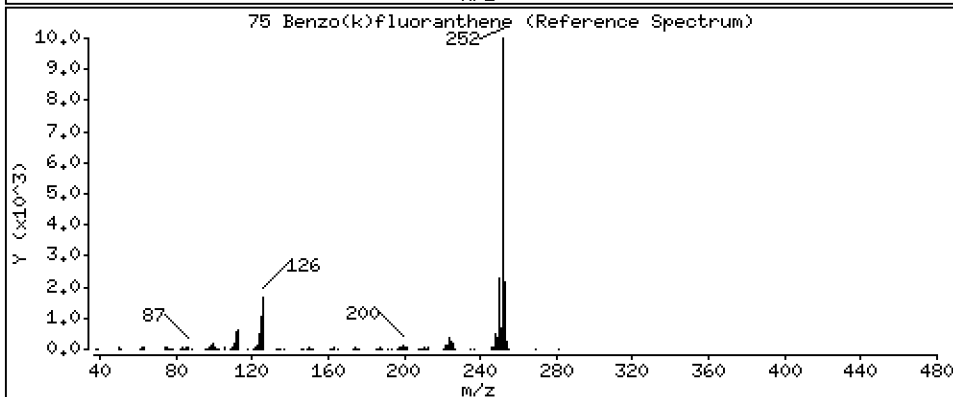
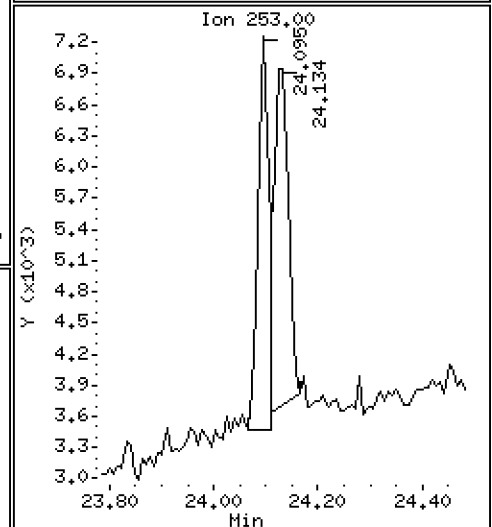
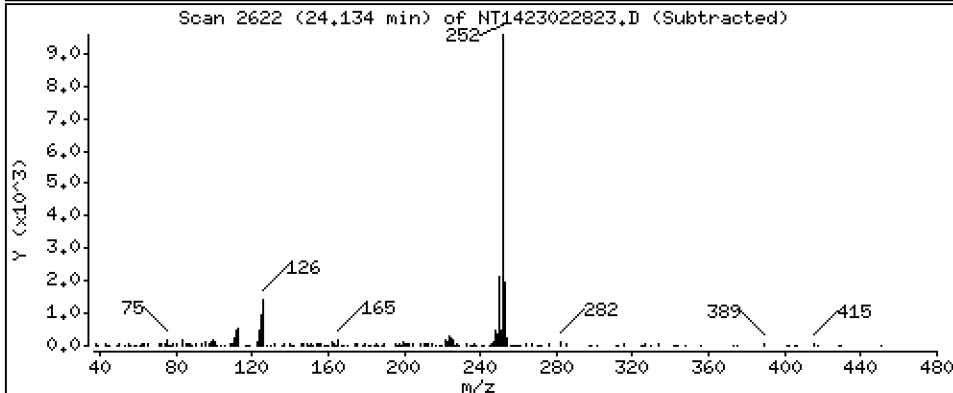
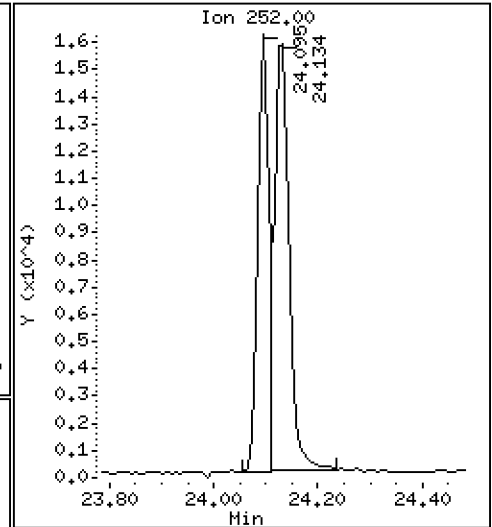
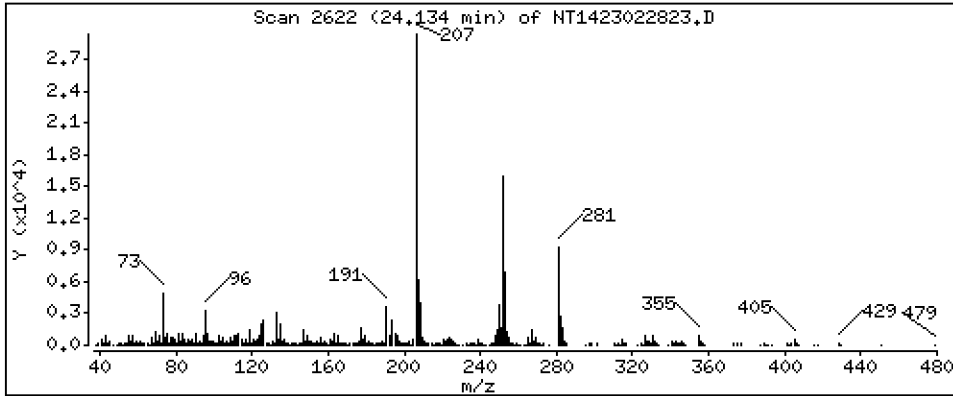
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 0,2209 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

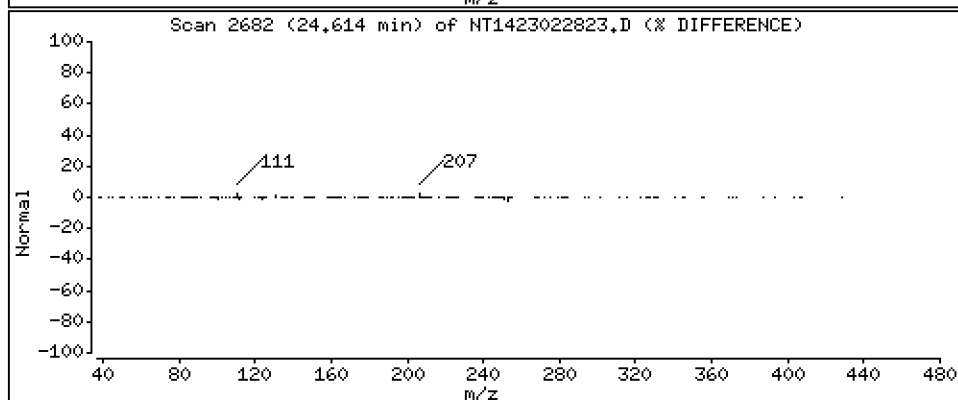
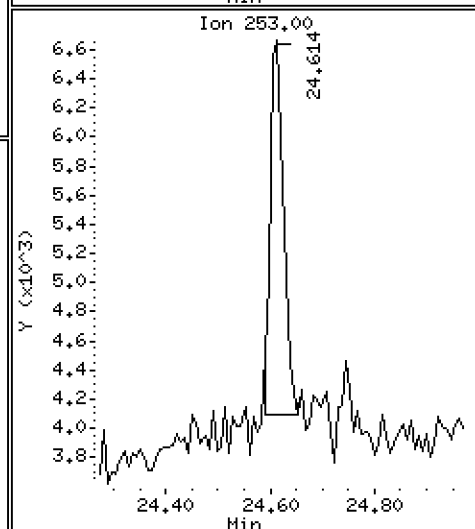
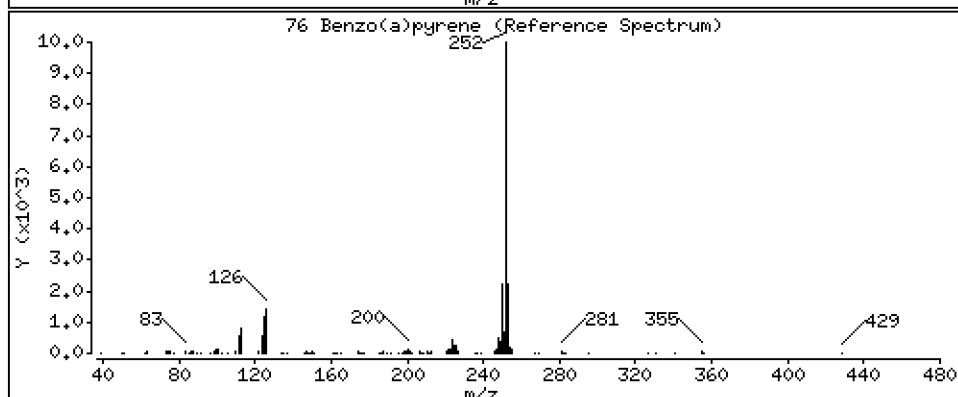
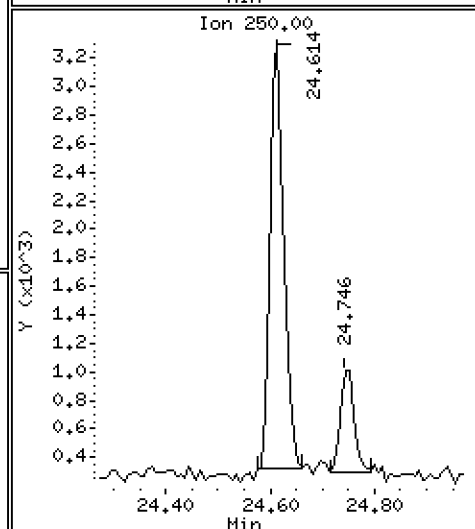
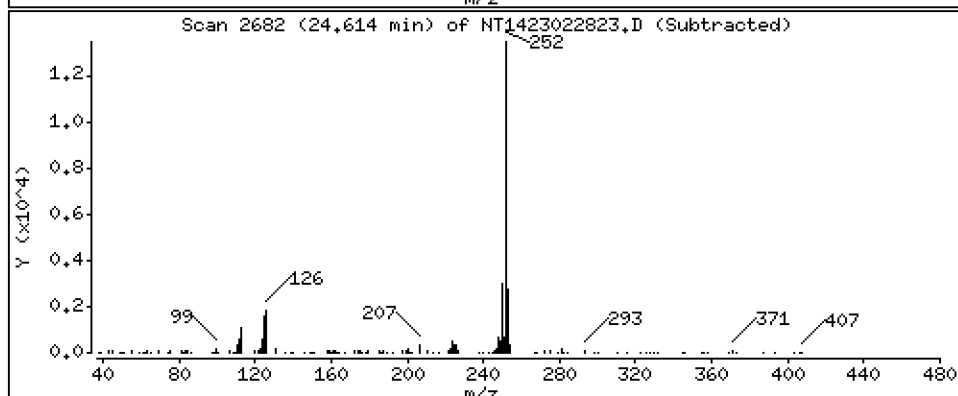
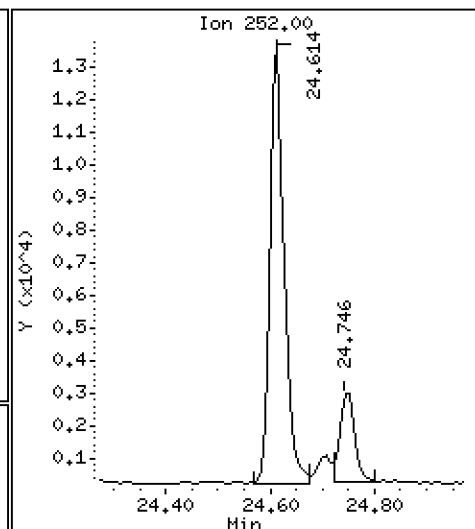
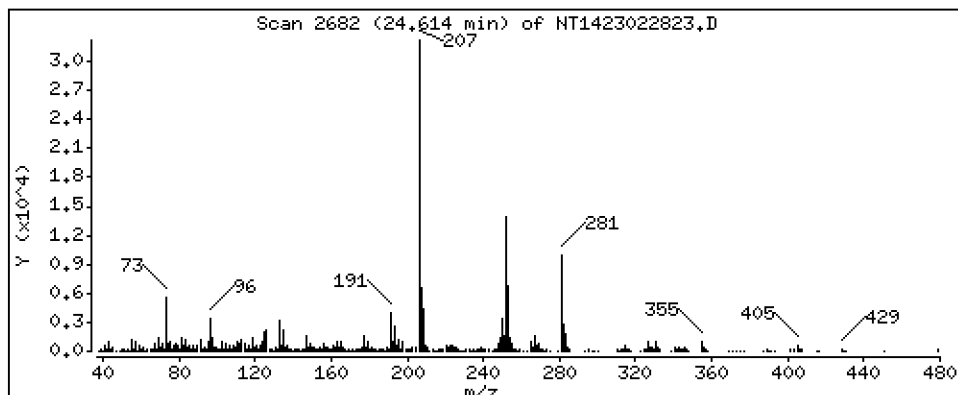
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 0,2207 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

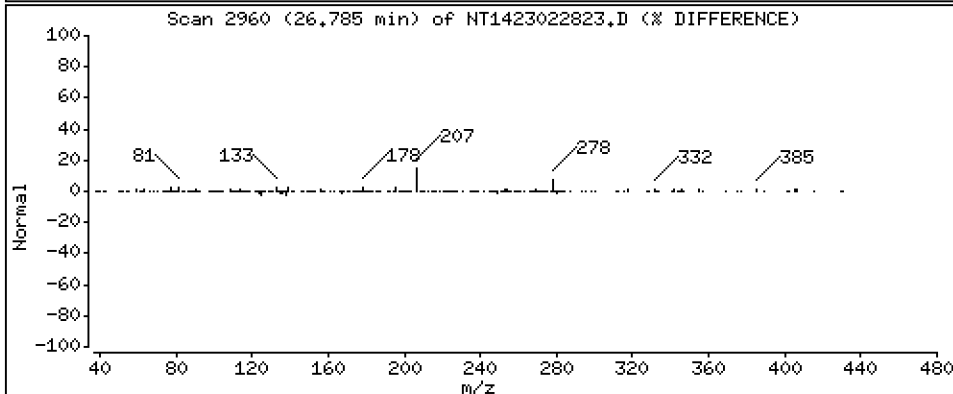
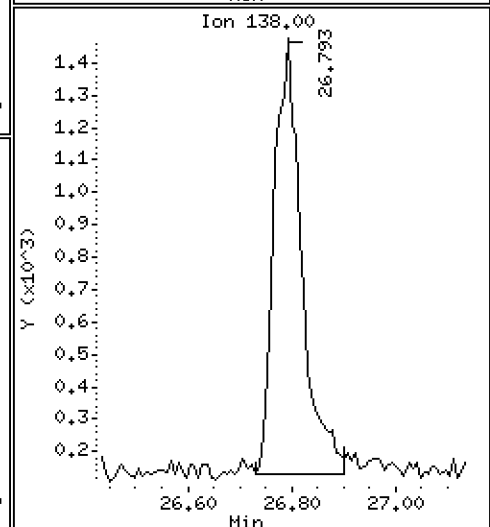
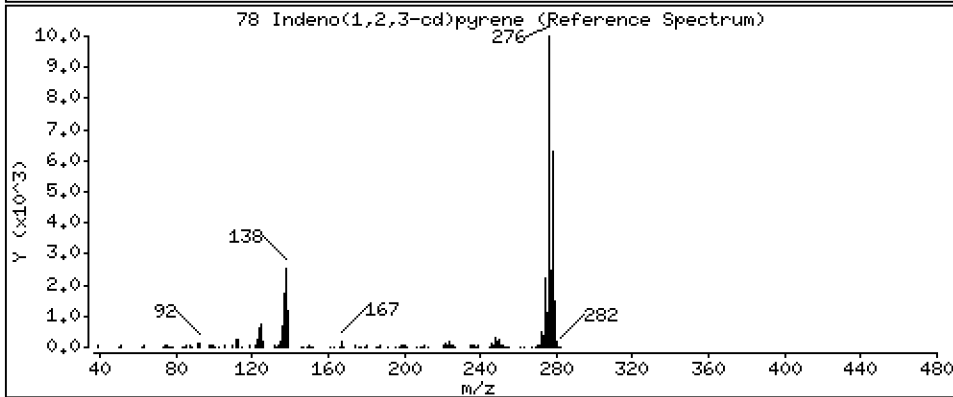
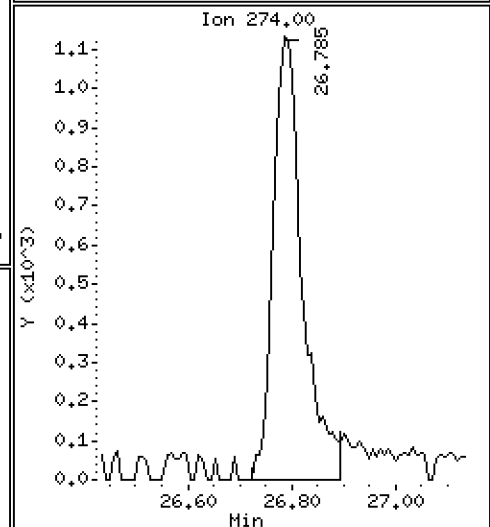
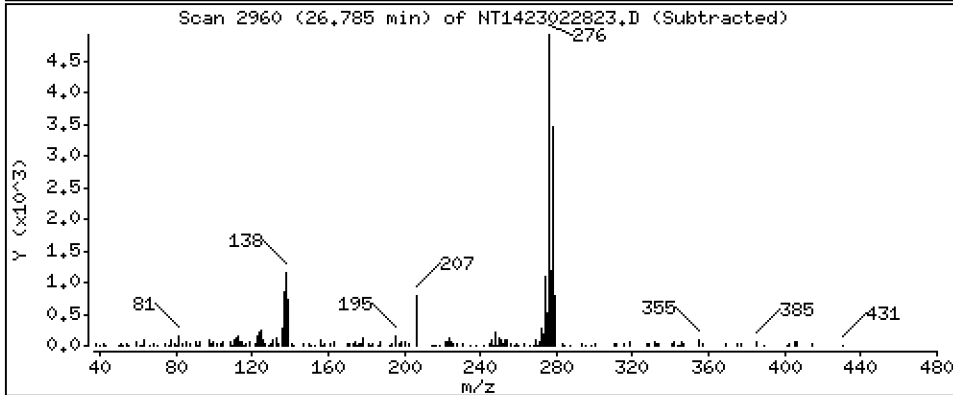
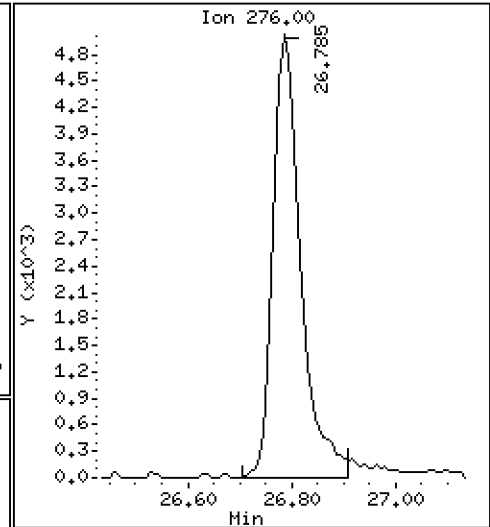
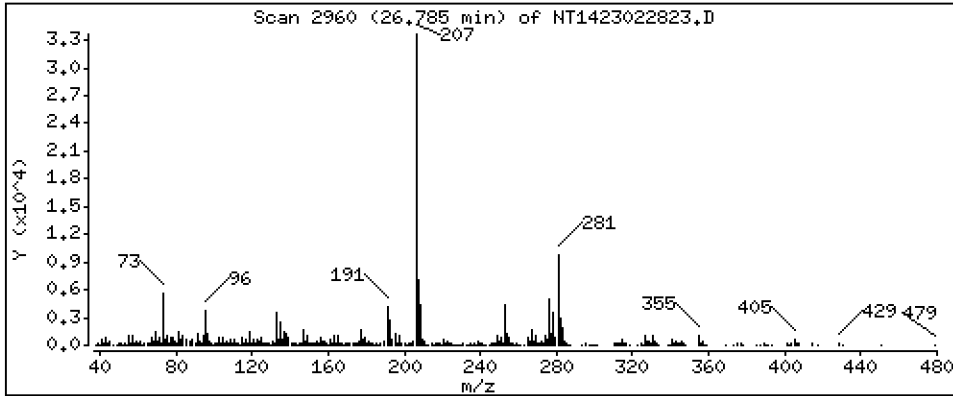
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 0,1309 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

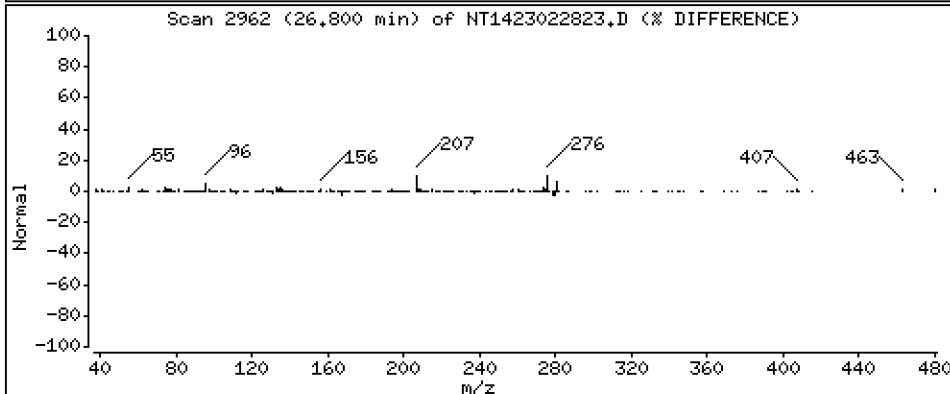
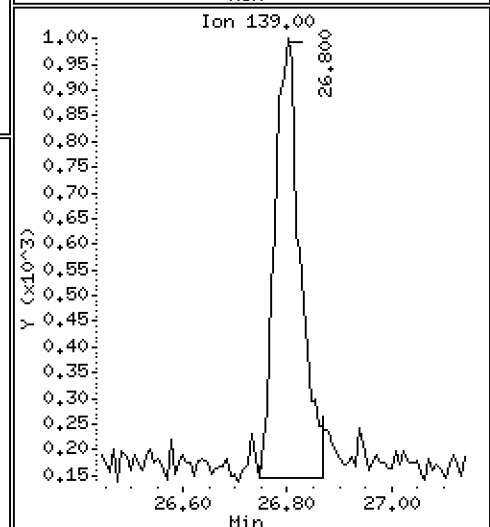
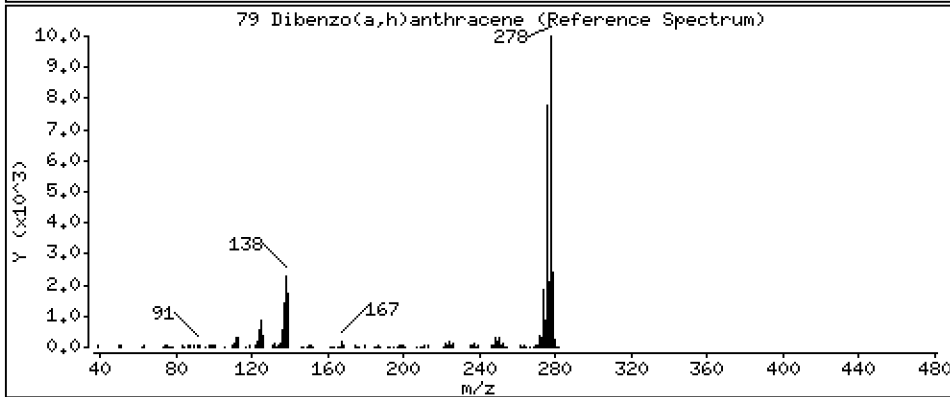
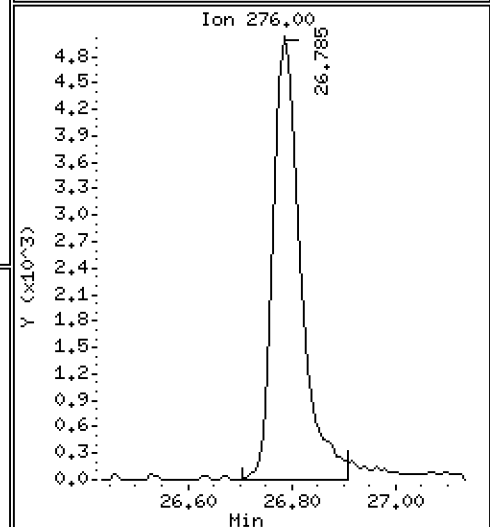
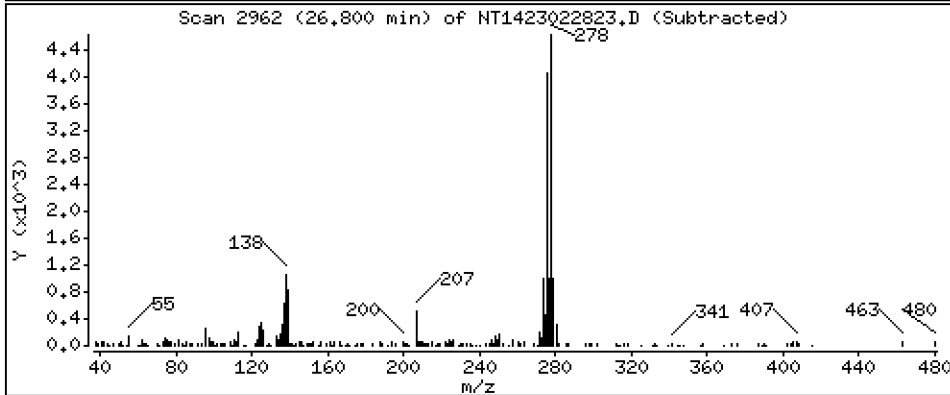
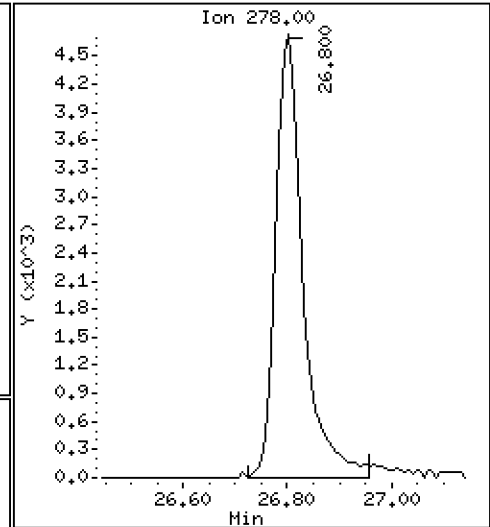
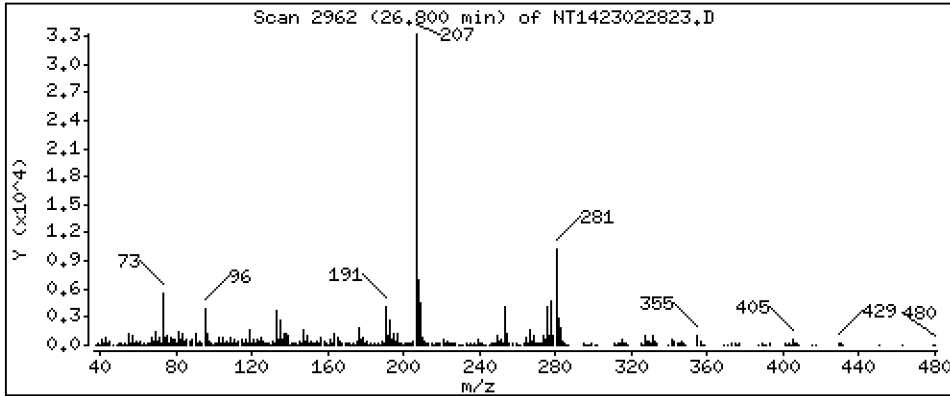
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 0,1429 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

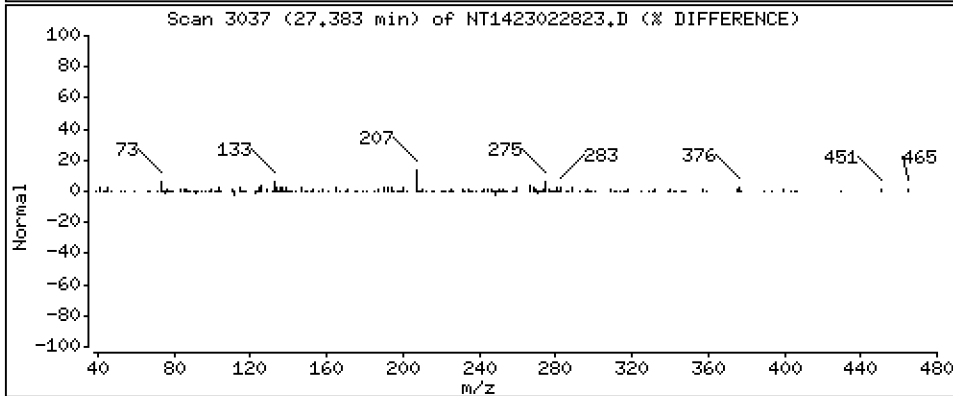
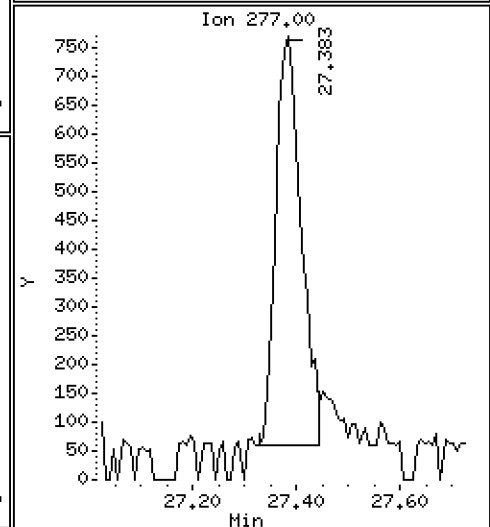
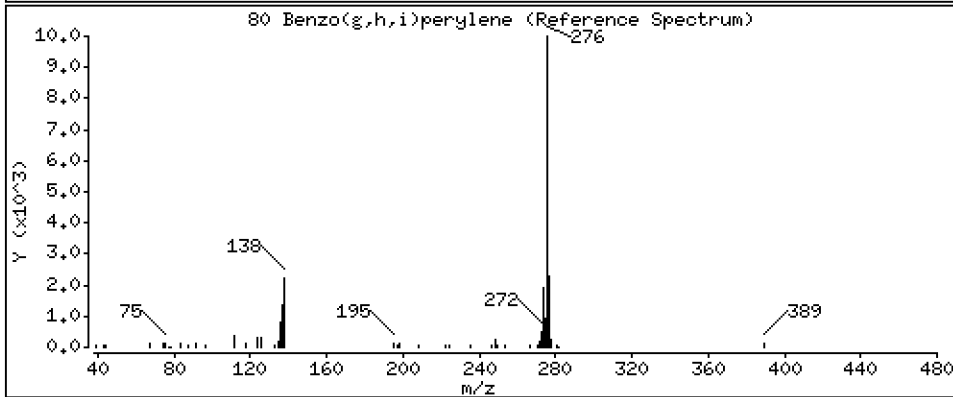
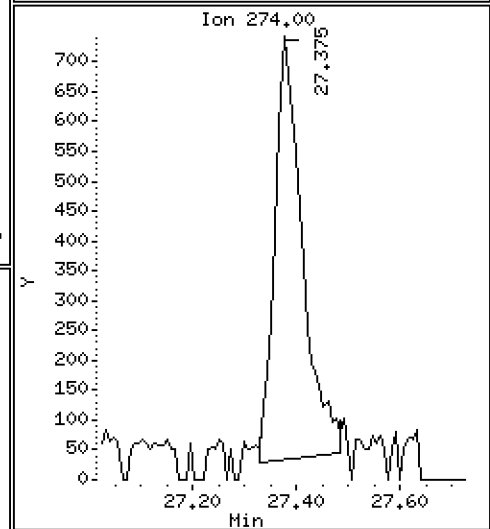
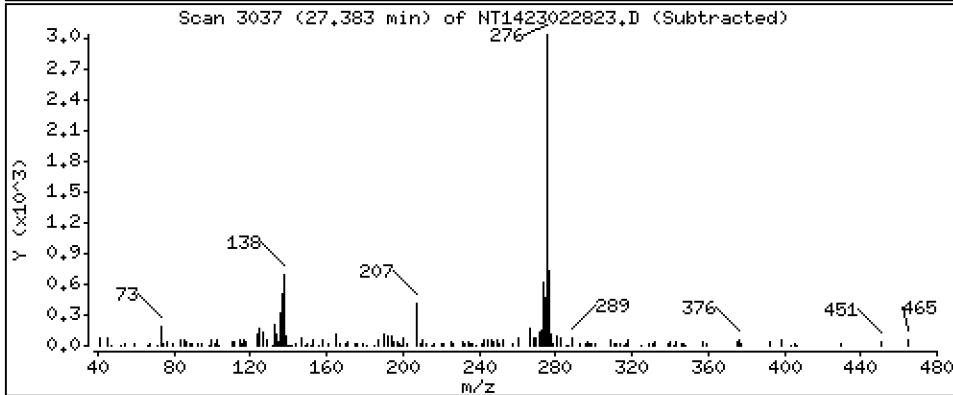
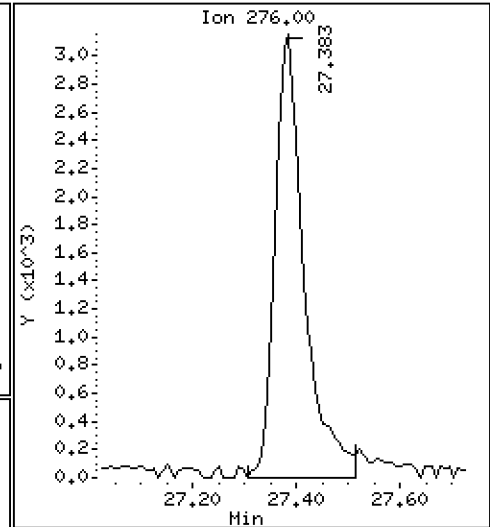
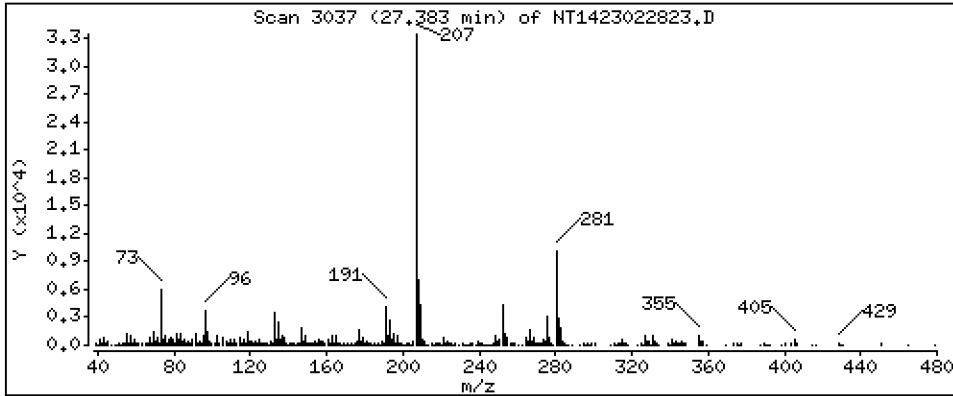
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 0,09952 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

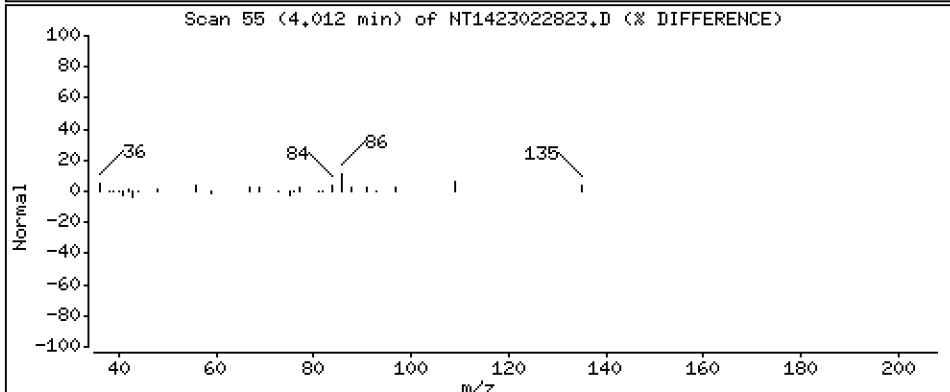
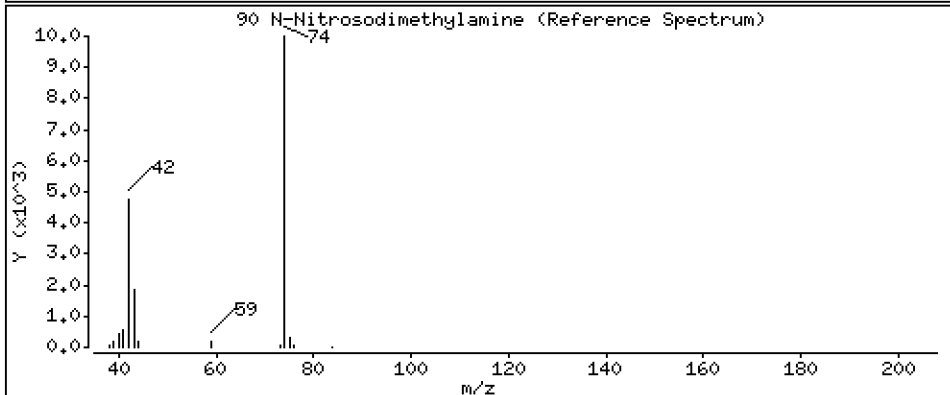
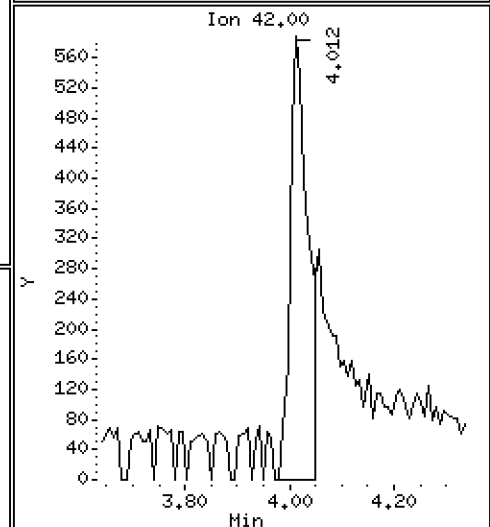
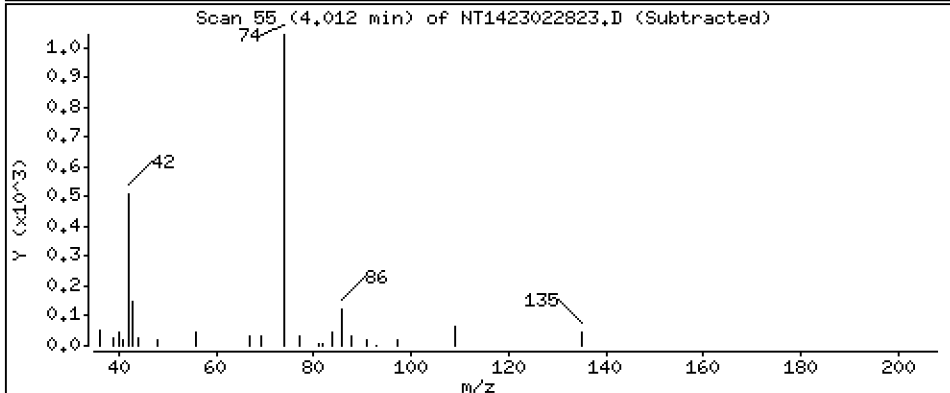
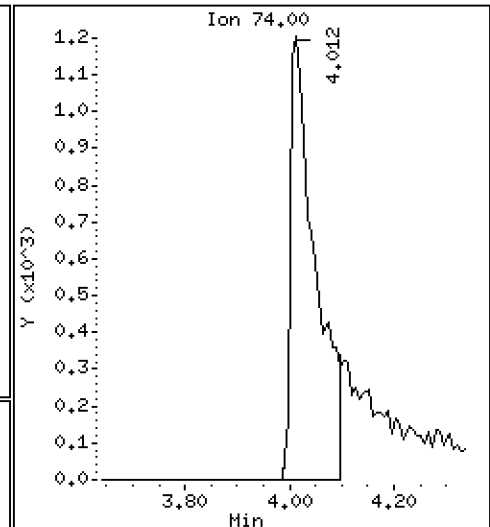
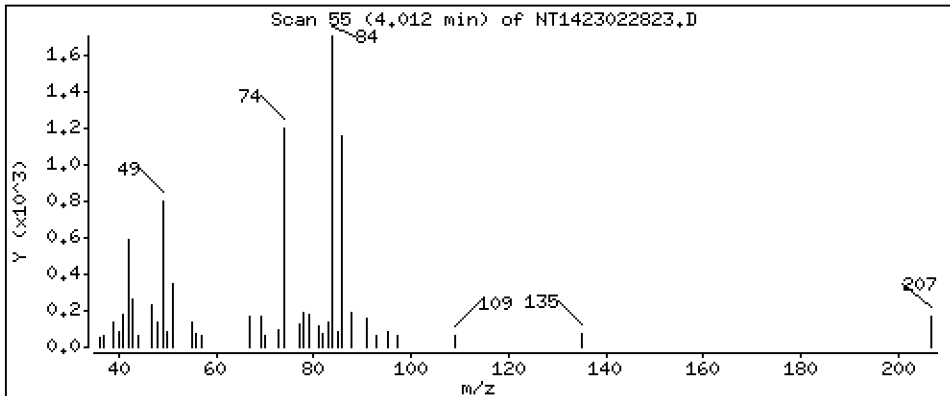
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

90 N-Nitrosodimethylamine

Concentration: 0,1735 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

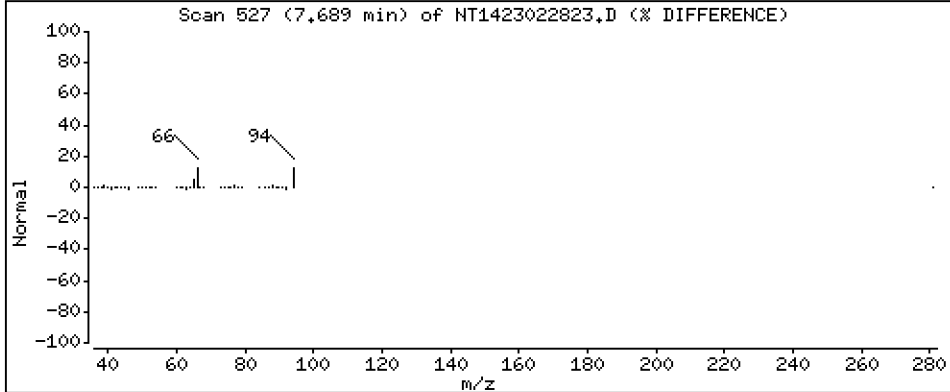
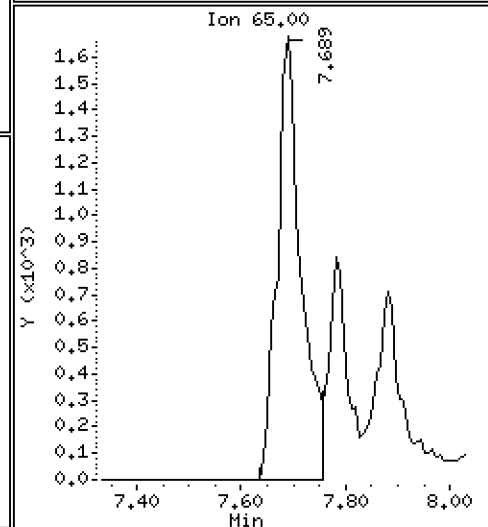
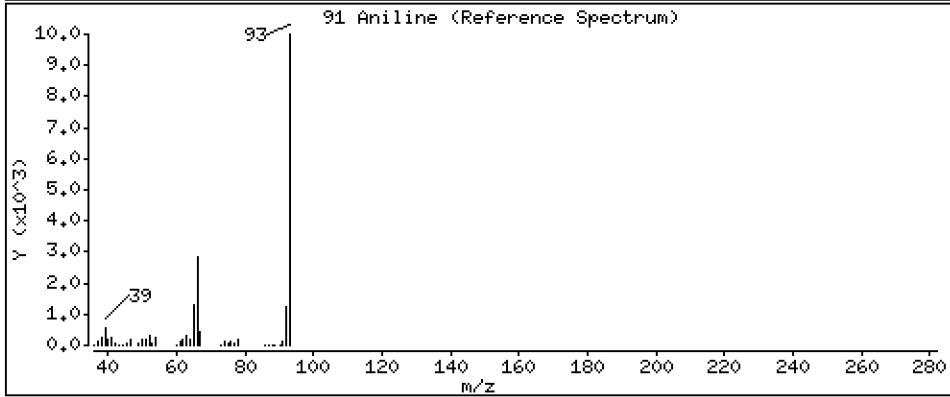
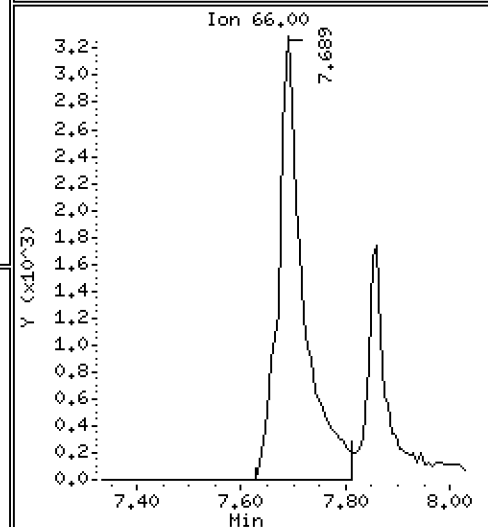
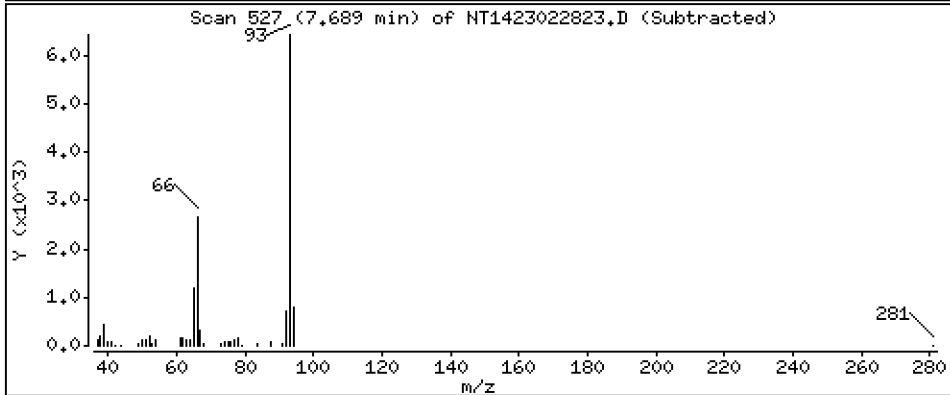
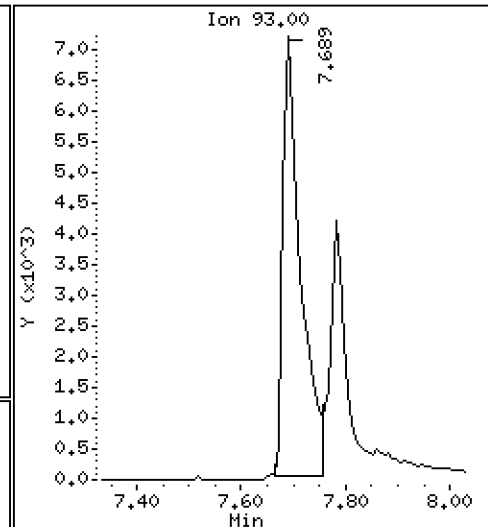
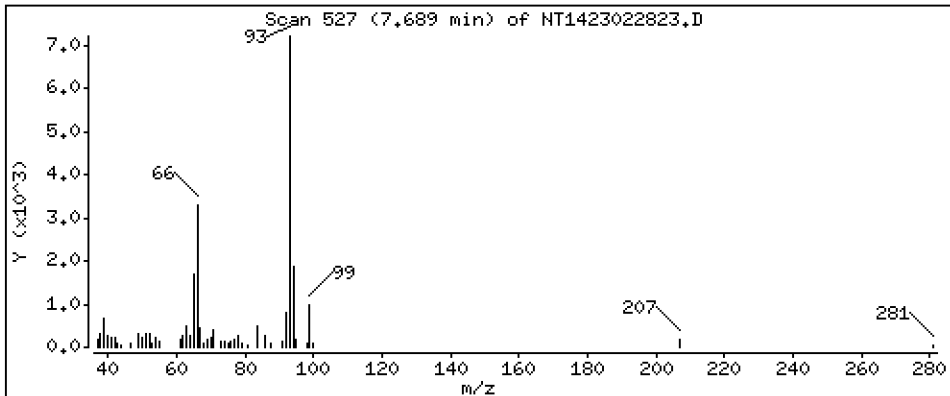
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

91 Aniline

Concentration: 0.3051 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

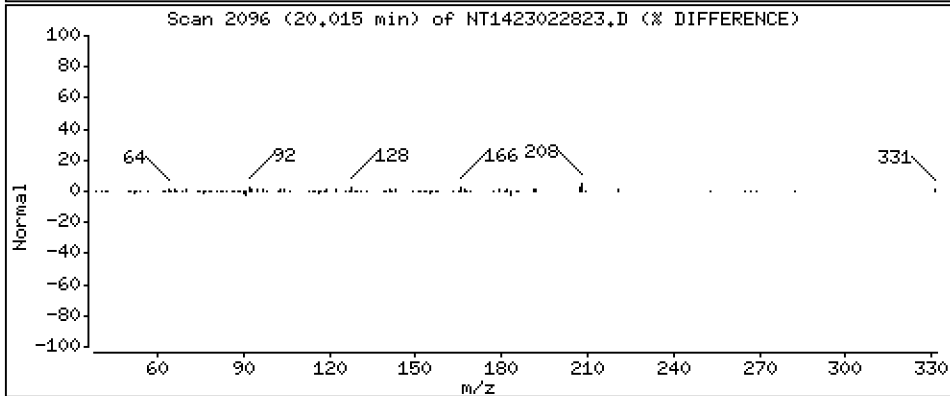
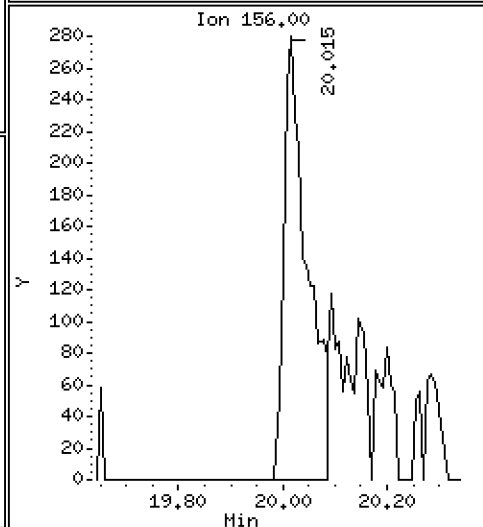
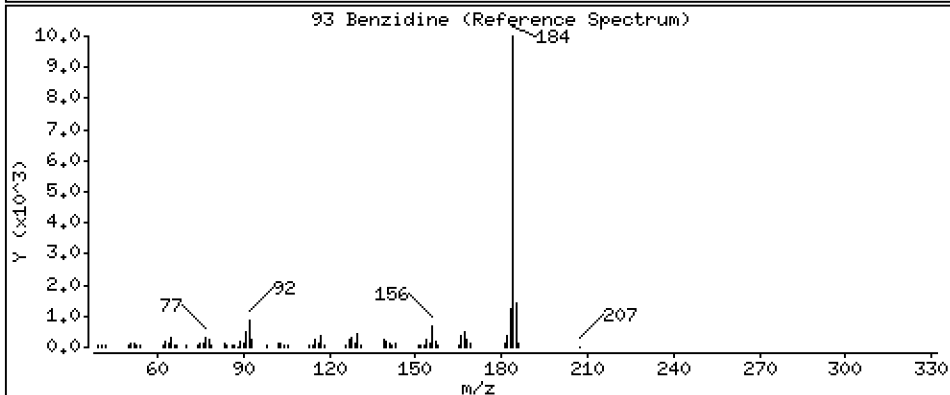
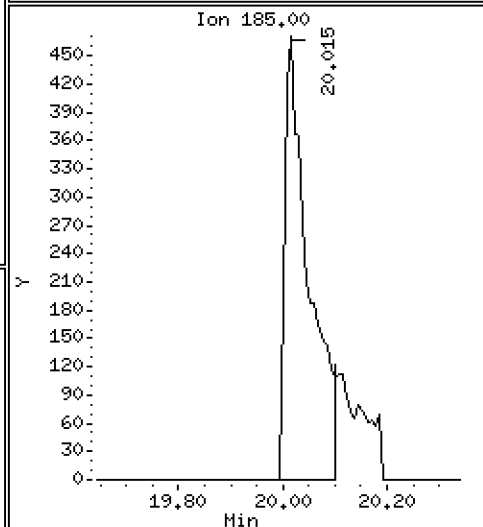
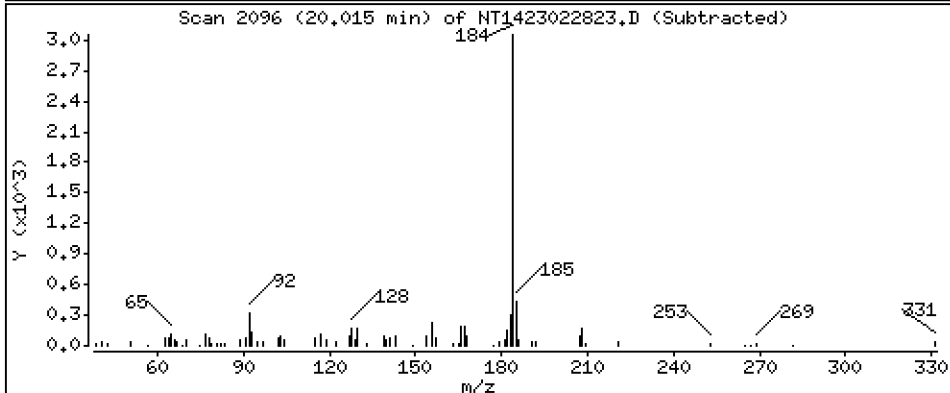
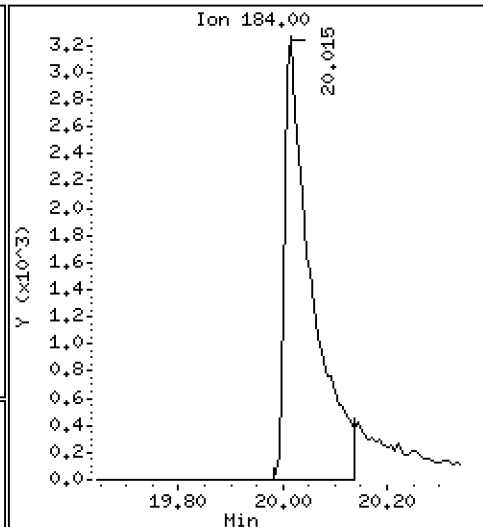
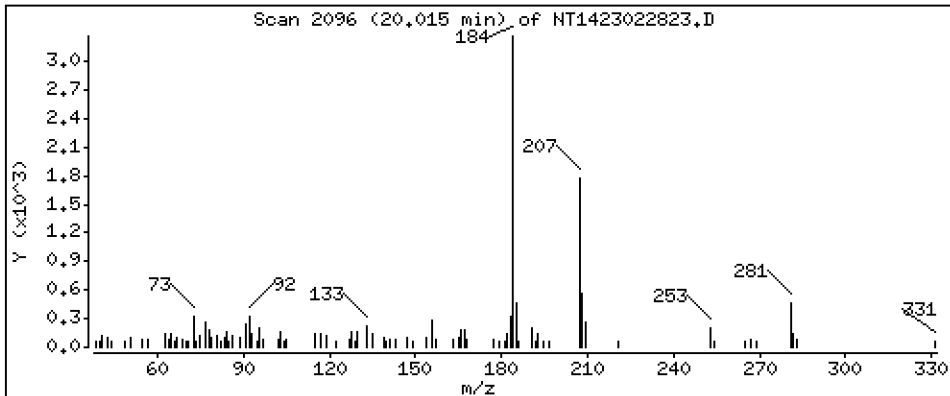
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

93 Benzidine

Concentration: 0,2301 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

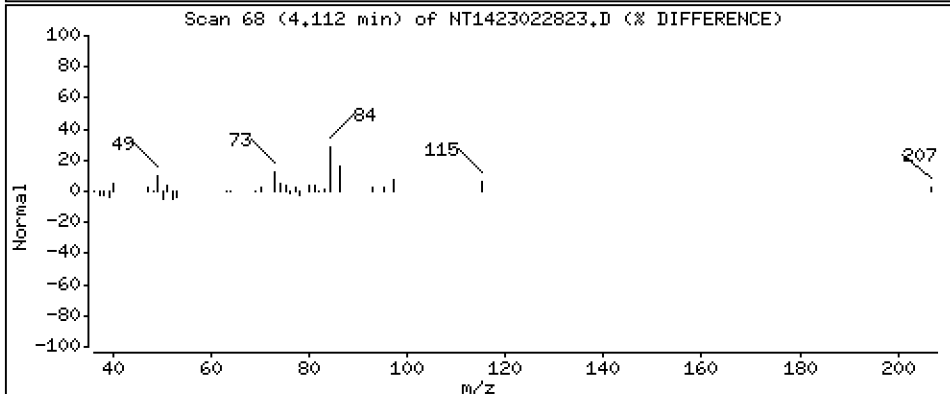
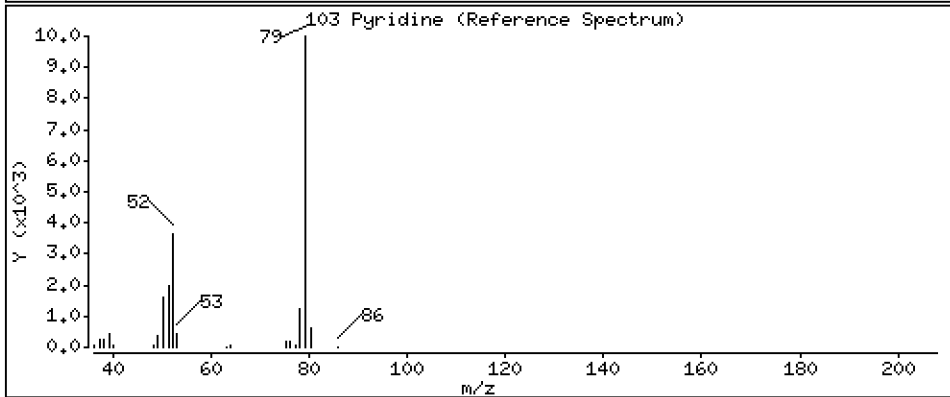
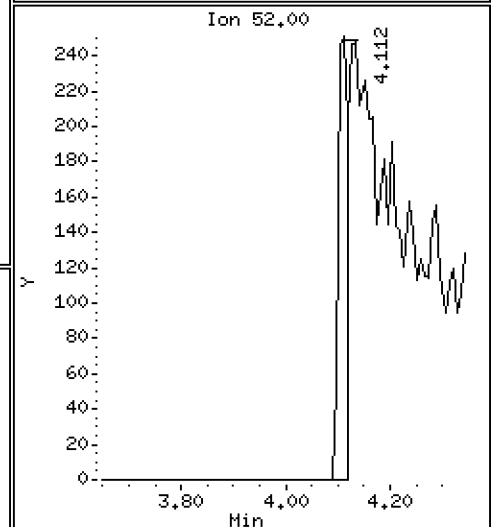
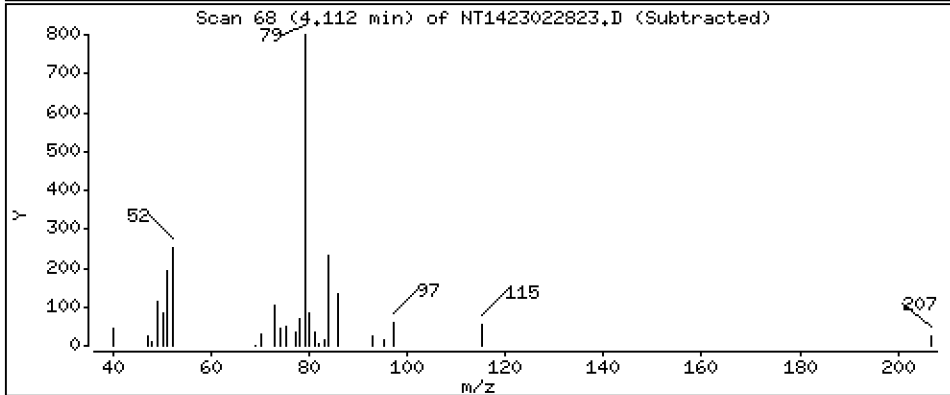
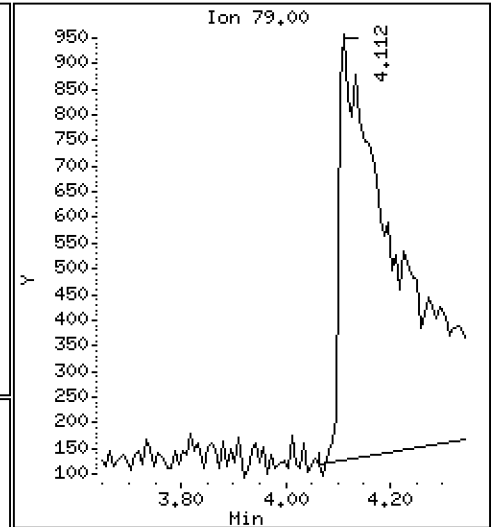
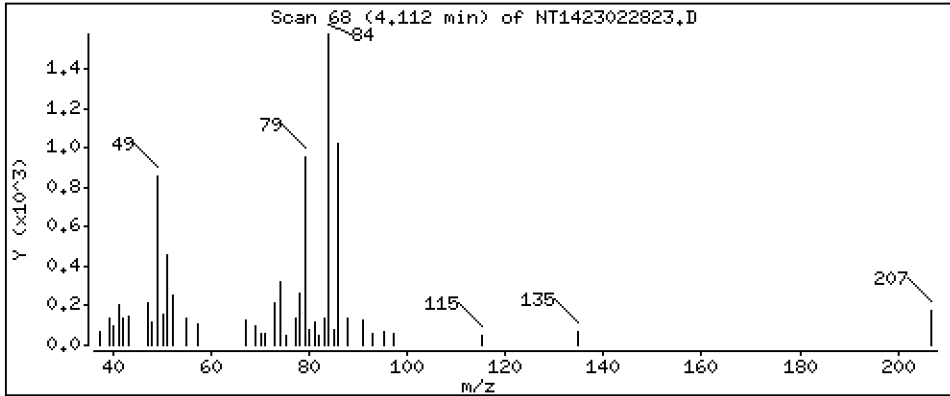
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

103 Pyridine

Concentration: 0,1253 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

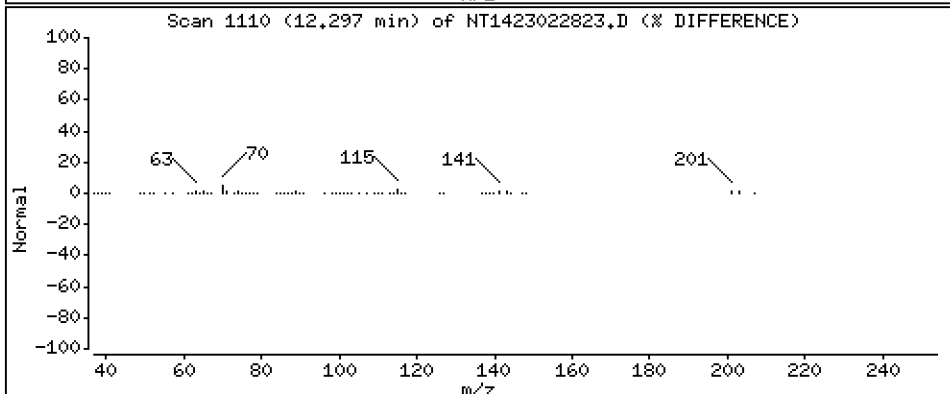
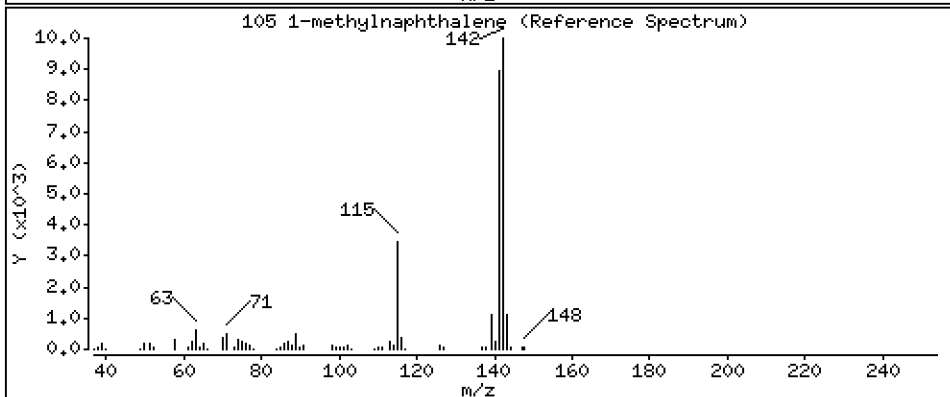
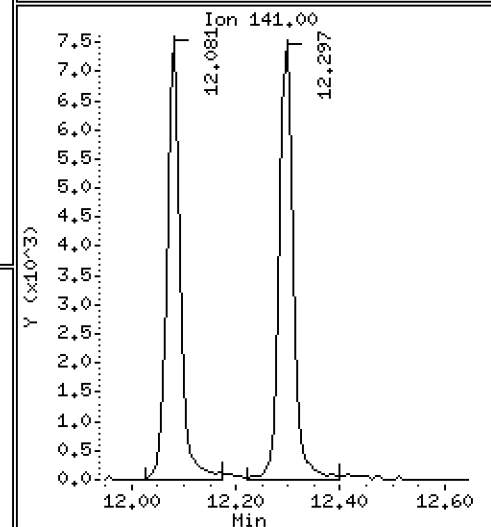
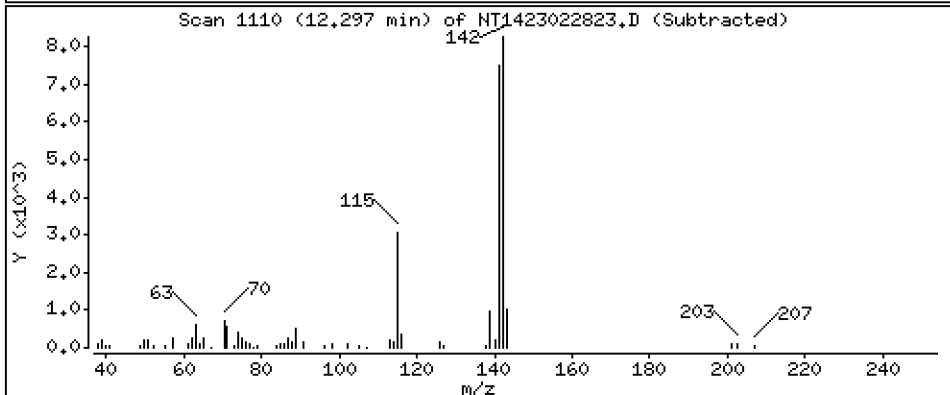
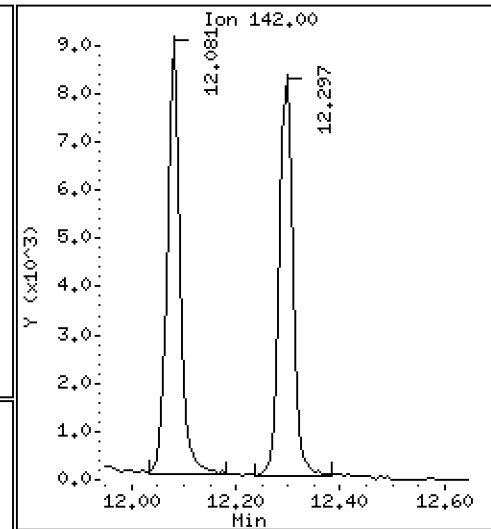
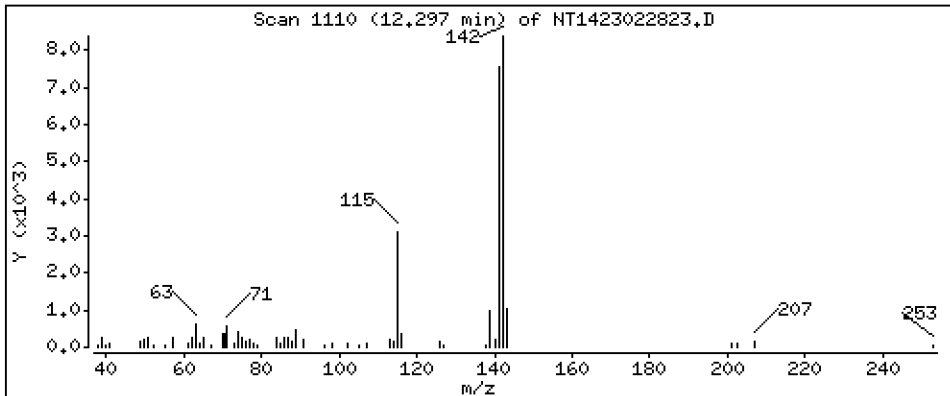
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 0,1951 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

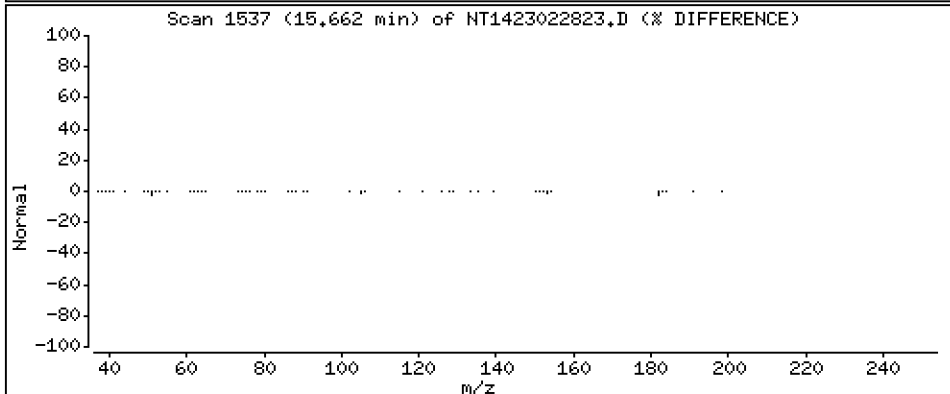
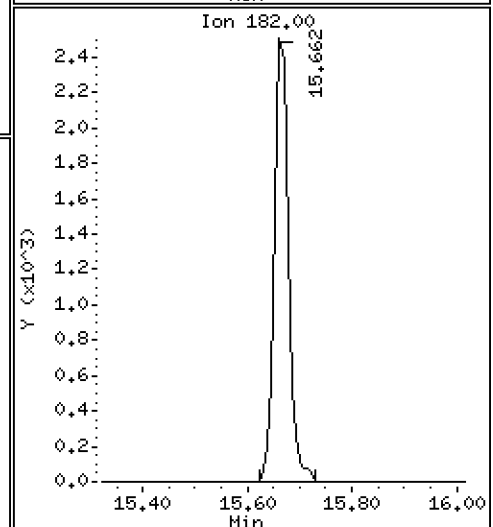
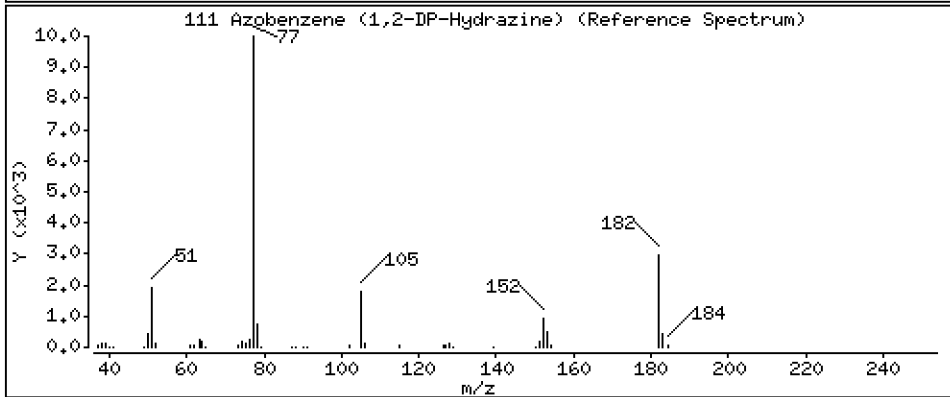
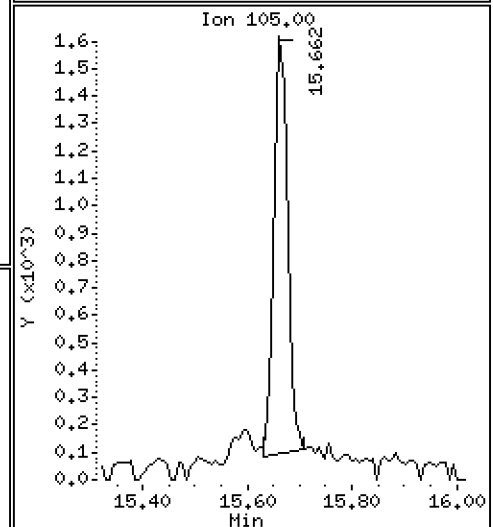
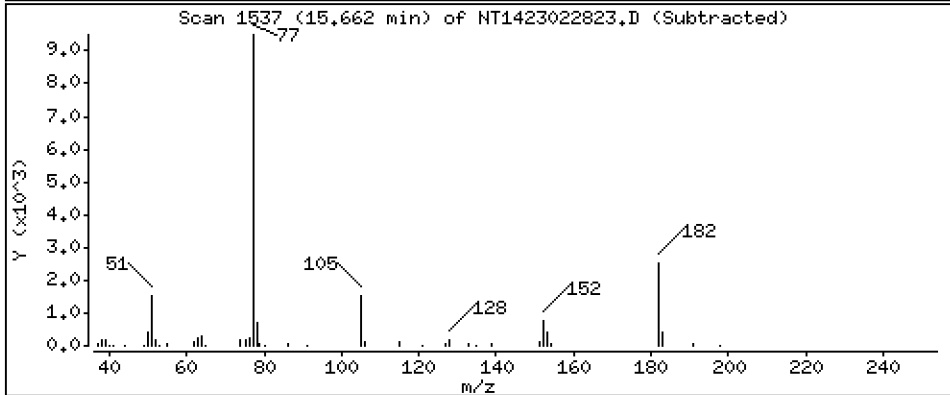
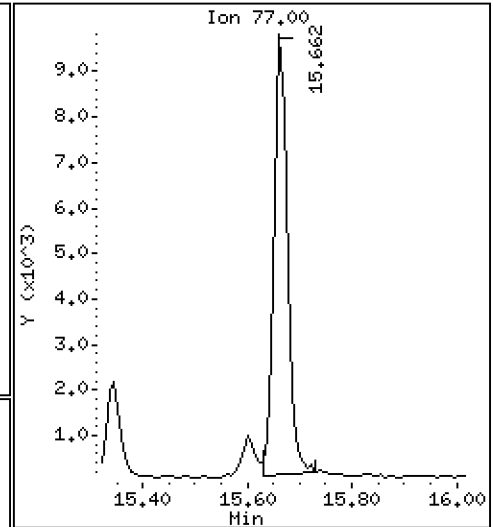
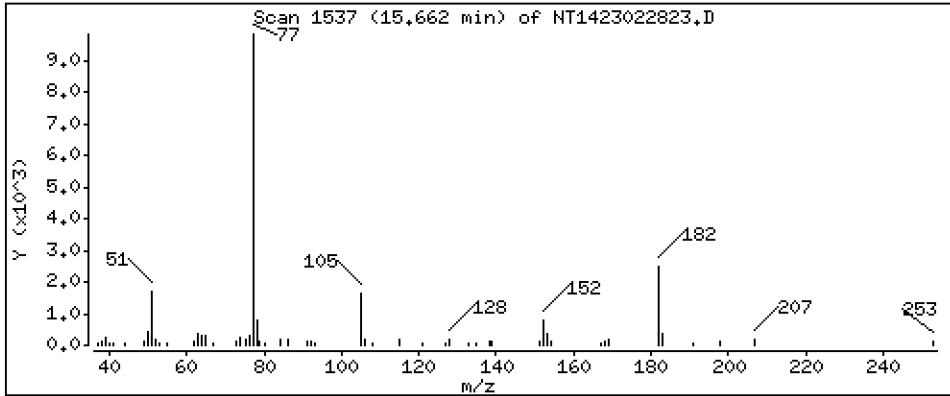
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 0,2082 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

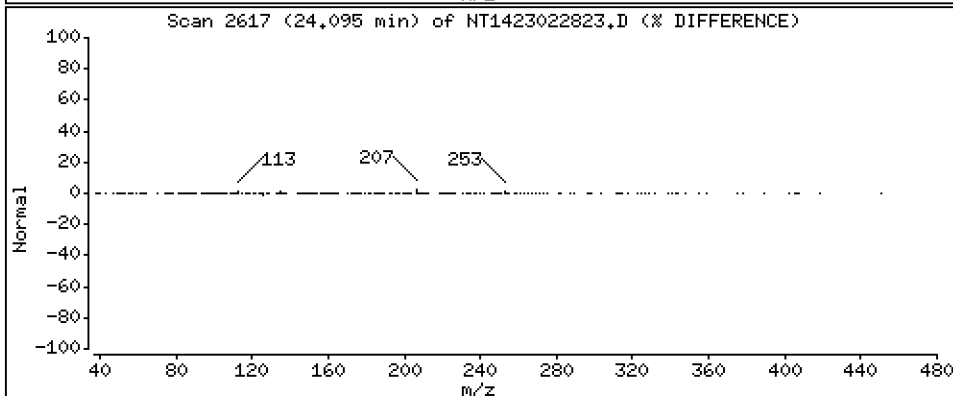
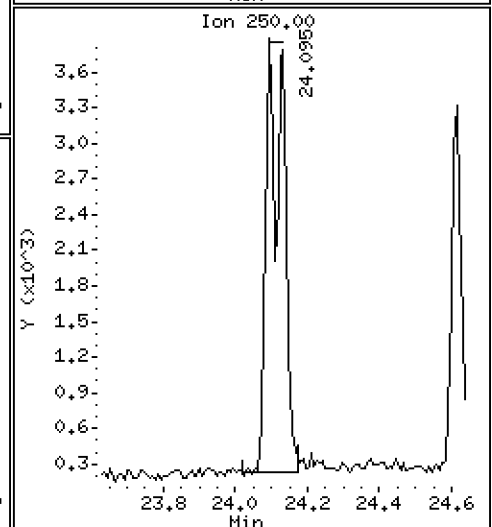
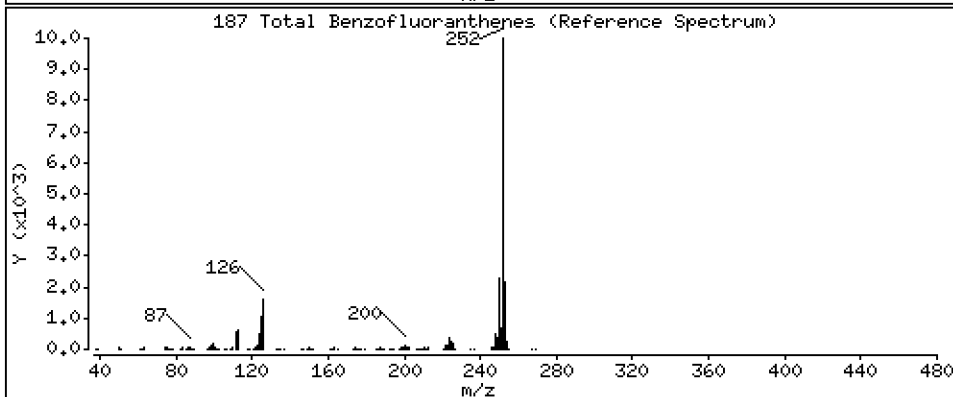
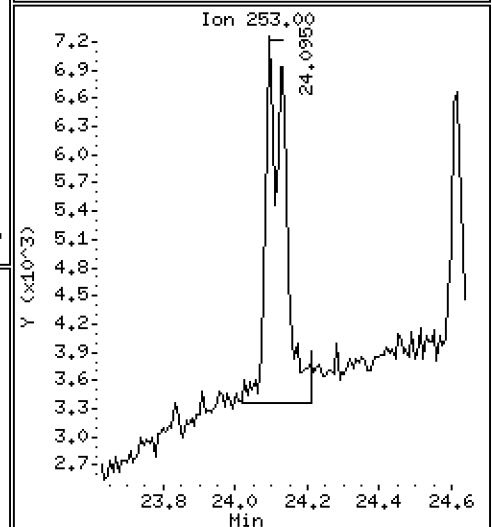
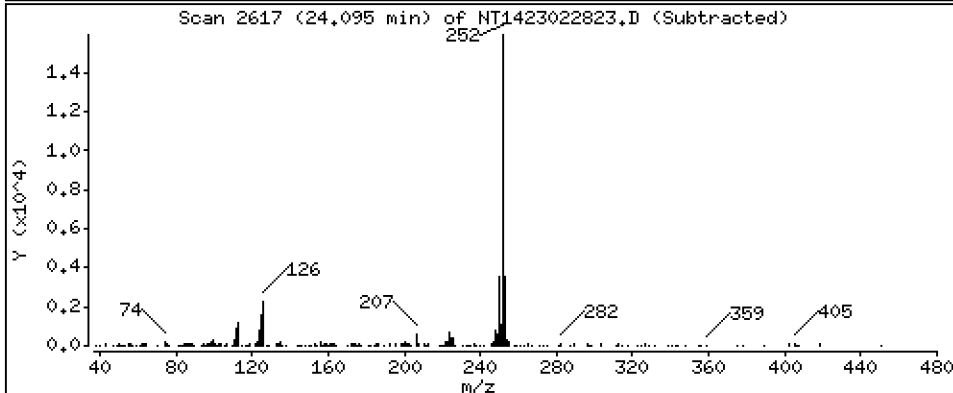
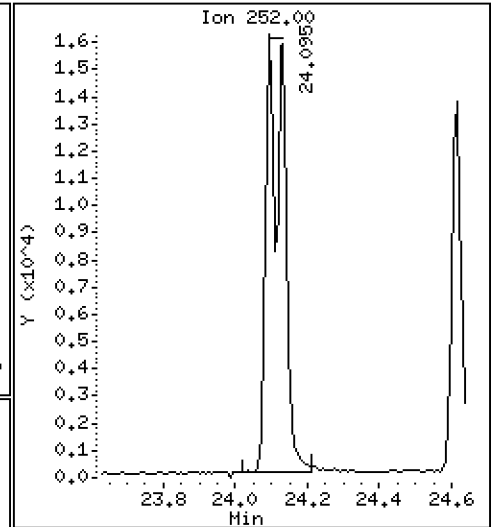
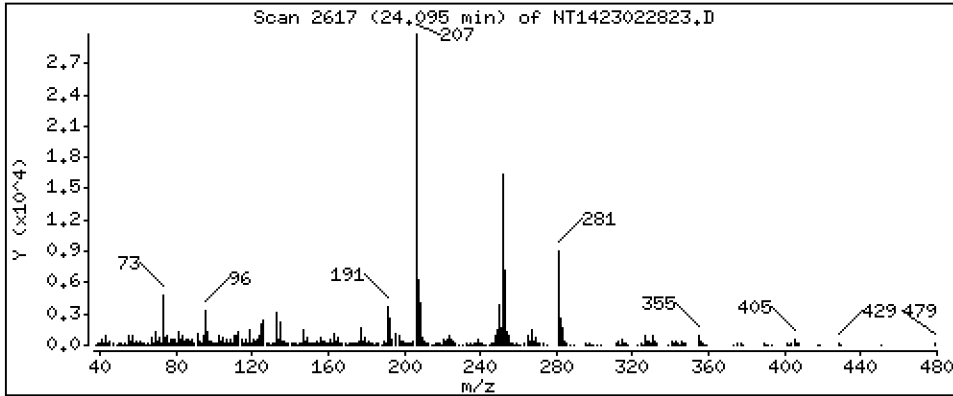
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 0,4192 ug/mL



Date : 01-MAR-2023 14:51

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV1

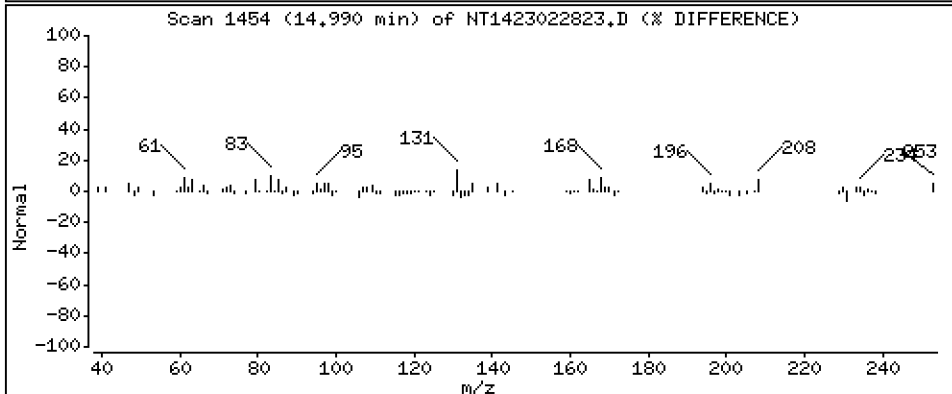
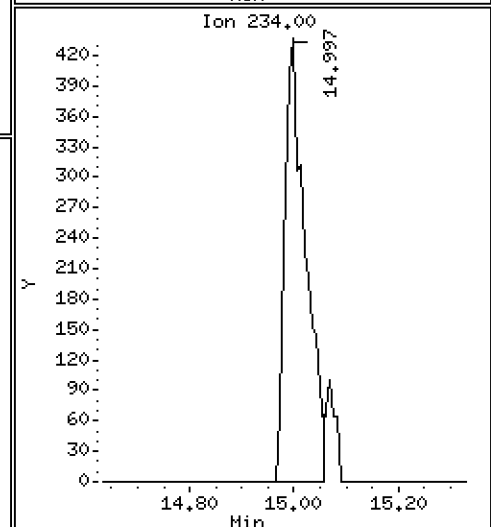
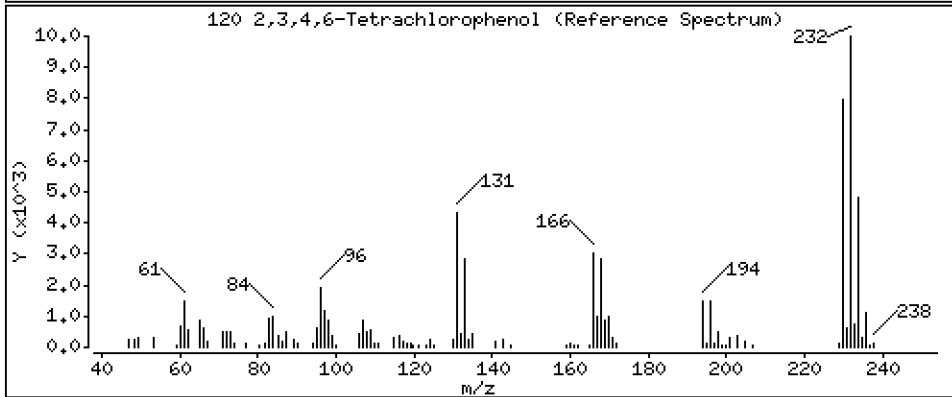
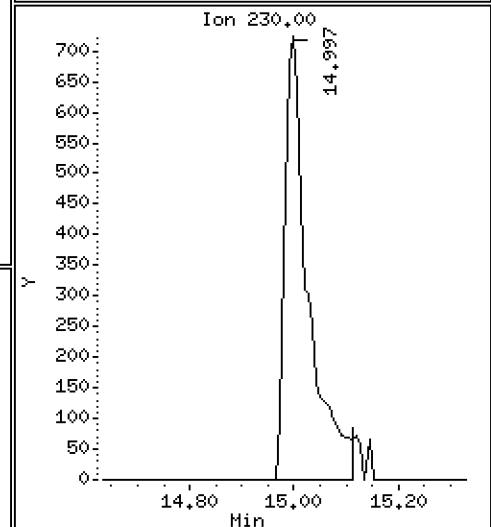
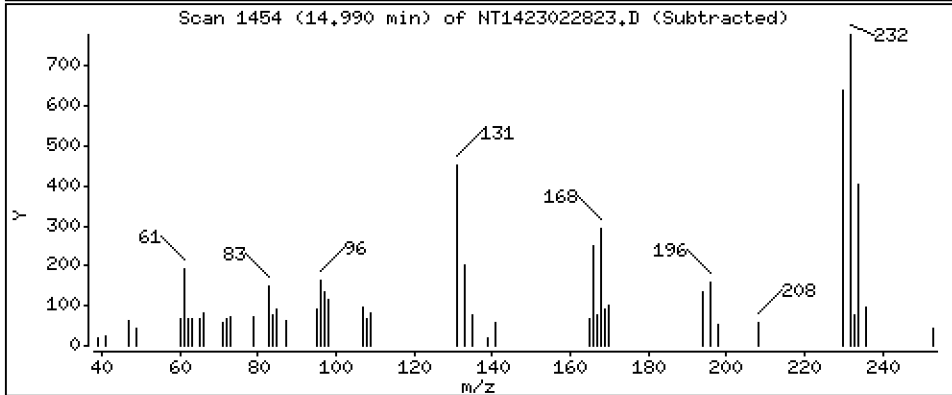
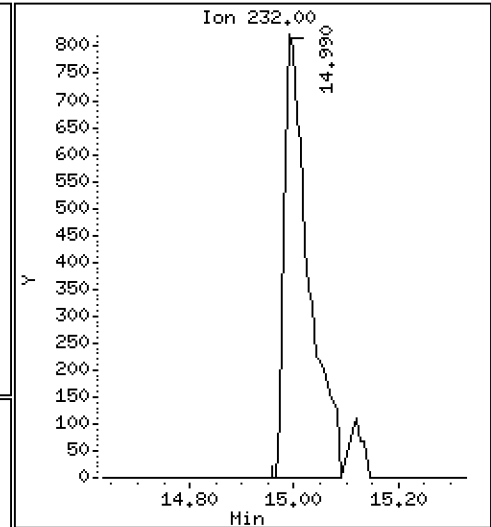
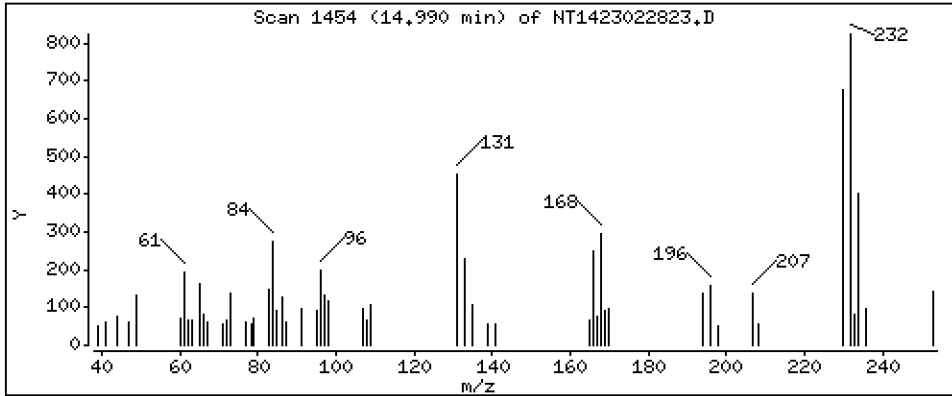
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

120 2,3,4,6-Tetrachlorophenol

Concentration: 0,1006 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230228.b\NT1423022823.D
 Lab Smp Id: SLB0374-LCV1
 Inj Date : 01-MAR-2023 14:51 MS Autotune Date: 17-MAY-2011 01:22
 Operator : JGR Inst ID: nt14.i
 Smp Info : SLB0374-LCV1
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt14.i\20230228.b\ABN.m
 Meth Date : 11-Mar-2023 09:11 van Quant Type: ISTD
 Cal Date : 28-FEB-2023 15:16 Cal File: NT1423022808.D
 Als bottle: 8
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: ICAL.sub
 Target Version: 4.14
 Processing Host: VANS-201906

| Compounds | QUANT | SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|---------------------------------|-------|-----|------------------------|--------|---------|----------|----------------|-------------|
| | | | | | | | ON-COLUMN | FINAL |
| | MASS | | | | | | (ug/mL) | (ug/mL) |
| \$ 1 2-Fluorophenol | 112 | | 6.066 | 6.050 | (0.741) | 6770 | 0.21764 | 0.2176 |
| \$ 2 Phenol-d5 | 99 | | 7.650 | 7.634 | (0.934) | 11118 | 0.25175 | 0.2517 |
| 3 Phenol | 94 | | 7.673 | 7.657 | (0.937) | 11406 | 0.21646 | 0.2165 (M) |
| \$ 5 2-Chlorophenol-d4 | 132 | | 7.858 | 7.850 | (0.959) | 10198 | 0.27157 | 0.2716 |
| 4 Bis(2-Chloroethyl)ether | 93 | | 7.781 | 7.781 | (0.950) | 7424 | 0.19947 | 0.1995 |
| 6 2-Chlorophenol | 128 | | 7.881 | 7.874 | (0.962) | 6882 | 0.17731 | 0.1773 |
| 7 1,3-Dichlorobenzene | 146 | | 8.129 | 8.129 | (0.992) | 9026 | 0.21101 | 0.2110 |
| * 8 1,4-Dichlorobenzene-d4 | 152 | | 8.191 | 8.191 | (1.000) | 114717 | 4.00000 | |
| 9 1,4-Dichlorobenzene | 146 | | 8.222 | 8.222 | (1.004) | 8579 | 0.20293 | 0.2029 |
| \$ 10 1,2-Dichlorobenzene-d4 | 152 | | 8.548 | 8.548 | (1.044) | 5531 | 0.19564 | 0.1956 |
| 12 1,2-Dichlorobenzene | 146 | | 8.571 | 8.571 | (1.046) | 8862 | 0.21862 | 0.2186 |
| 11 Benzyl alcohol | 108 | | 8.556 | 8.501 | (1.045) | 2291 | 0.09976 | 0.09976 (M) |
| 14 2,2'-oxybis(1-Chloropropane) | 121 | | 8.796 | 8.789 | (1.074) | 2337 | 0.21377 | 0.2138 (M) |
| 13 2-Methylphenol | 108 | | 8.758 | 8.742 | (1.069) | 5805 | 0.17438 | 0.1744 |
| 17 Hexachloroethane | 117 | | 9.146 | 9.146 | (1.117) | 2371 | 0.14934 | 0.1493 |
| 16 N-Nitroso-di-n-propylamine | 70 | | 9.045 | 9.053 | (1.104) | 5107 | 0.20149 | 0.2015 |
| 15 4-Methylphenol | 108 | | 9.037 | 9.014 | (1.103) | 5113 | 0.13179 | 0.1318 |
| \$ 18 Nitrobenzene-d5 | 82 | | 9.293 | 9.285 | (0.873) | 7875 | 0.19743 | 0.1974 |
| 19 Nitrobenzene | 77 | | 9.324 | 9.316 | (0.876) | 7056 | 0.18408 | 0.1841 |
| 20 Isophorone | 82 | | 9.774 | 9.774 | (0.918) | 10848 | 0.18106 | 0.1811 |
| 21 2-Nitrophenol | 139 | | 9.960 | 9.945 | (0.935) | 2738 | 0.13803 | 0.1380 (M) |
| 22 2,4-Dimethylphenol | 107 | | 10.046 | 10.038 | (0.943) | 14438 | 0.41318 | 0.4132 |
| 23 Bis(2-Chloroethoxy)methane | 93 | | 10.232 | 10.224 | (0.961) | 7543 | 0.19574 | 0.1957 |
| 24 Benzoic acid | 105 | | Compound Not Detected. | | | | | |
| 25 2,4-Dichlorophenol | 162 | | 10.425 | 10.402 | (0.979) | 10268 | 0.28957 | 0.2896 |
| 26 1,2,4-Trichlorobenzene | 180 | | 10.572 | 10.572 | (0.993) | 8038 | 0.20354 | 0.2035 |
| * 27 Naphthalene-d8 | 136 | | 10.649 | 10.649 | (1.000) | 407764 | 4.00000 | |
| 28 Naphthalene | 128 | | 10.688 | 10.688 | (1.004) | 23230 | 0.21358 | 0.2136 |
| 29 4-Chloroaniline | 127 | | 10.865 | 10.850 | (1.020) | 14621 | 0.31429 | 0.3143 |
| 30 Hexachlorobutadiene | 225 | | 11.066 | 11.066 | (1.039) | 4515 | 0.18736 | 0.1874 |
| 31 4-Chloro-3-methylphenol | 107 | | 11.863 | 11.840 | (1.114) | 9574 | 0.30438 | 0.3044 |
| 32 2-Methylnaphthalene | 142 | | 12.080 | 12.080 | (1.134) | 15634 | 0.19410 | 0.1941 |
| 33 Hexachlorocyclopentadiene | 237 | | Compound Not Detected. | | | | | |

| Compounds | QUANT | SIG | | | | | | CONCENTRATIONS | |
|-----------------------------------|-------|-----|------------------------|--------|---------|--------|----------|----------------------|------------------|
| | | | MASS | RT | EXP RT | REL RT | RESPONSE | ON-COLUMN (ug/mL) | FINAL (ug/mL) |
| 34 2,4,6-Trichlorophenol | 196 | | 12.722 | 12.715 | (0.894) | 7090 | 0.31265 | 0.3126 | |
| 35 2,4,5-Trichlorophenol | 196 | | 12.815 | 12.792 | (0.900) | 6778 | 0.27644 | 0.2764 | |
| § 36 2-Fluorobiphenyl | 172 | | 12.869 | 12.877 | (0.904) | 18685 | 0.20679 | 0.2068 | |
| 37 2-Chloronaphthalene | 162 | | 13.063 | 13.063 | (0.918) | 15044 | 0.20770 | 0.2077 | |
| 38 2-Nitroaniline | 65 | | 13.365 | 13.349 | (0.939) | 6287 | 0.33281 | 0.3328 | |
| 39 Dimethylphthalate | 163 | | 13.798 | 13.798 | (0.970) | 15532 | 0.21271 | 0.2127 | |
| 40 Acenaphthylene | 152 | | 13.914 | 13.922 | (0.978) | 23495 | 0.22106 | 0.2211 | |
| 41 2,6-Dinitrotoluene | 165 | | 13.922 | 13.922 | (0.978) | 6369 | 0.37221 | 0.3722 | |
| * 42 Acenaphthene-d10 | 164 | | 14.232 | 14.232 | (1.000) | 232149 | 4.00000 | | |
| 43 3-Nitroaniline | 138 | | 14.224 | 14.201 | (0.999) | 3874 | 0.22089 | 0.2209 | |
| 44 Acenaphthene | 153 | | 14.293 | 14.301 | (1.004) | 14297 | 0.21010 | 0.2101 | |
| 45 2,4-Dinitrophenol | 184 | | Compound Not Detected. | | | | | | |
| 46 Dibenzofuran | 168 | | 14.626 | 14.626 | (1.028) | 21483 | 0.19841 | 0.1984 | |
| 47 4-Nitrophenol | 109 | | Compound Not Detected. | | | | | | |
| 48 2,4-Dinitrotoluene | 165 | | 14.726 | 14.726 | (1.035) | 6886 | 0.27954 | 0.2795 | |
| 50 Diethylphthalate | 149 | | 15.237 | 15.252 | (1.071) | 14673 | 0.21488 | 0.2149 | |
| 49 Fluorene | 166 | | 15.329 | 15.330 | (1.077) | 19157 | 0.20999 | 0.2100 | |
| 51 4-Chlorophenyl-phenylether | 204 | | 15.345 | 15.345 | (1.078) | 9764 | 0.20115 | 0.2012 | |
| 52 4-Nitroaniline | 138 | | 15.499 | 15.469 | (1.089) | 4718 | 0.27139 | 0.2714 (M) | |
| 53 4,6-Dinitro-2-methylphenol | 198 | | 15.576 | 15.553 | (0.904) | 1986 | 0.13758 | 0.1376 (M) | |
| 54 N-Nitrosodiphenylamine | 169 | | 15.600 | 15.607 | (0.905) | 11588 | 0.21230 | 0.2123 | |
| § 55 2,4,6-Tribromophenol | 330 | | 15.877 | 15.870 | (1.116) | 2586 | 0.20743 | 0.2074 | |
| 56 4-Bromophenyl-phenylether | 248 | | 16.340 | 16.340 | (0.948) | 4846 | 0.20194 | 0.2019 | |
| 57 Hexachlorobenzene | 284 | | 16.626 | 16.626 | (0.965) | 5642 | 0.21385 | 0.2138 | |
| 58 Pentachlorophenol | 266 | | 17.044 | 17.005 | (0.989) | 893 | 0.07199 | 0.07199 (M) | |
| * 59 Phenanthrene-d10 | 188 | | 17.237 | 17.237 | (1.000) | 434349 | 4.00000 | | |
| 60 Phenanthrene | 178 | | 17.284 | 17.291 | (1.003) | 23812 | 0.20608 | 0.2061 | |
| 61 Anthracene | 178 | | 17.376 | 17.384 | (1.008) | 22351 | 0.20462 | 0.2046 | |
| 62 Carbazole | 167 | | 17.740 | 17.732 | (1.029) | 17760 | 0.18551 | 0.1855 | |
| 63 Di-n-butylphthalate | 149 | | 18.583 | 18.583 | (1.078) | 22145 | 0.17907 | 0.1791 | |
| 64 Fluoranthene | 202 | | 19.705 | 19.705 | (0.881) | 24042 | 0.19724 | 0.1972 | |
| 65 Pyrene | 202 | | 20.139 | 20.139 | (0.901) | 24983 | 0.19440 | 0.1944 | |
| § 66 Terphenyl-d14 | 244 | | 20.464 | 20.471 | (0.915) | 19653 | 0.19862 | 0.1986 | |
| 67 Butylbenzylphthalate | 149 | | 21.431 | 21.439 | (0.958) | 9295 | 0.20433 | 0.2043 | |
| 68 Benzo(a)anthracene | 228 | | 22.330 | 22.330 | (0.999) | 23837 | 0.22149 | 0.2215 | |
| * 69 Chrysene-d12 | 240 | | 22.361 | 22.361 | (1.000) | 321275 | 4.00000 | | |
| 70 3,3'-Dichlorobenzidine | 252 | | 22.322 | 22.322 | (0.998) | 22528 | 0.73301 | 0.7330 | |
| 71 Chrysene | 228 | | 22.399 | 22.407 | (1.002) | 22276 | 0.21535 | 0.2153 | |
| 72 bis(2-Ethylhexyl)phthalate | 149 | | 22.492 | 22.492 | (0.958) | 13193 | 0.18020 | 0.1802 | |
| * 134 Di-n-octylphthalate-d4 | 153 | | 23.468 | 23.468 | (1.000) | 479418 | 4.00000 | | |
| 73 Di-n-octylphthalate | 149 | | 23.475 | 23.483 | (1.000) | 25542 | 0.20235 | 0.2023 | |
| 74 Benzo(b)fluoranthene | 252 | | 24.095 | 24.103 | (0.975) | 25649 | 0.19560 | 0.1956 | |
| 75 Benzo(k)fluoranthene | 252 | | 24.133 | 24.134 | (0.977) | 31249 | 0.22089 | 0.2209 | |
| 76 Benzo(a)pyrene | 252 | | 24.614 | 24.621 | (0.996) | 24825 | 0.22067 | 0.2207 | |
| * 77 Perylene-d12 | 264 | | 24.706 | 24.707 | (1.000) | 396889 | 4.00000 | | |
| 78 Indeno(1,2,3-cd)pyrene | 276 | | 26.784 | 26.784 | (1.084) | 18541 | 0.13093 | 0.1309 | |
| 79 Dibenzo(a,h)anthracene | 278 | | 26.800 | 26.792 | (1.085) | 17192 | 0.14294 | 0.1429 | |
| 80 Benzo(g,h,i)perylene | 276 | | 27.382 | 27.375 | (1.108) | 12292 | 0.09952 | 0.09952 | |
| 90 N-Nitrosodimethylamine | 74 | | 4.011 | 3.988 | (0.490) | 4100 | 0.17348 | 0.1735 | |
| 91 Aniline | 93 | | 7.688 | 7.681 | (0.939) | 16619 | 0.30511 | 0.3051 | |
| 93 Benzidine | 184 | | 20.015 | 19.992 | (0.895) | 12002 | 0.23015 | 0.2301 | |
| 103 Pyridine | 79 | | 4.112 | 3.996 | (0.502) | 8733 | 0.12528 | 0.1253 (M) | |
| 105 1-methylnaphthalene | 142 | | 12.297 | 12.297 | (1.155) | 14470 | 0.19514 | 0.1951 | |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77 | | 15.661 | 15.669 | (1.100) | 16319 | 0.20817 | 0.2082 | |

| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|-------------------------------|-----------|--------|--------|---------|----------|----------------------|------------------|
| | | | | | | ON-COLUMN (ug/mL) | FINAL (ug/mL) |
| 187 Total Benzofluoranthenes | 252 | 24.095 | 24.134 | (0.975) | 53777 | 0.41924 | 0.4192 |
| 120 2,3,4,6-Tetrachlorophenol | 232 | 14.989 | 14.981 | (1.053) | 2627 | 0.10062 | 0.1006 (M) |

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 01-MAR-2023
 Lab File ID: NT1423022823.D Calibration Time: 13:39
 Lab Smp Id: SLB0374-LCV1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: JGR
 Method File: \\target\share\chem3\nt14.i\20230228.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|--------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 125853 | 62927 | 251706 | 114717 | -8.85 |
| 27 Naphthalene-d8 | 454961 | 227481 | 909922 | 407764 | -10.37 |
| 42 Acenaphthene-d10 | 273779 | 136890 | 547558 | 232149 | -15.21 |
| 59 Phenanthrene-d10 | 520384 | 260192 | 1040768 | 434349 | -16.53 |
| 69 Chrysene-d12 | 399183 | 199592 | 798366 | 321275 | -19.52 |
| 134 Di-n-octylphthala | 602810 | 301405 | 1205620 | 479418 | -20.47 |
| 77 Perylene-d12 | 478887 | 239444 | 957774 | 396889 | -17.12 |

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

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

REVIEW SUMMARY FOR FILE - NT1423022823.D

Lab ID: SLB0374-LCV1
nt14.i, ABN.m, 01-MAR-2023 14:51

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT | CCV RRT | DELTA | COMPOUND |
|-------|---------|--------|----------------|
| 1.045 | 1.038 | 0.0066 | Benzyl alcohol |
| 0.502 | 0.488 | 0.0141 | Pyridine |

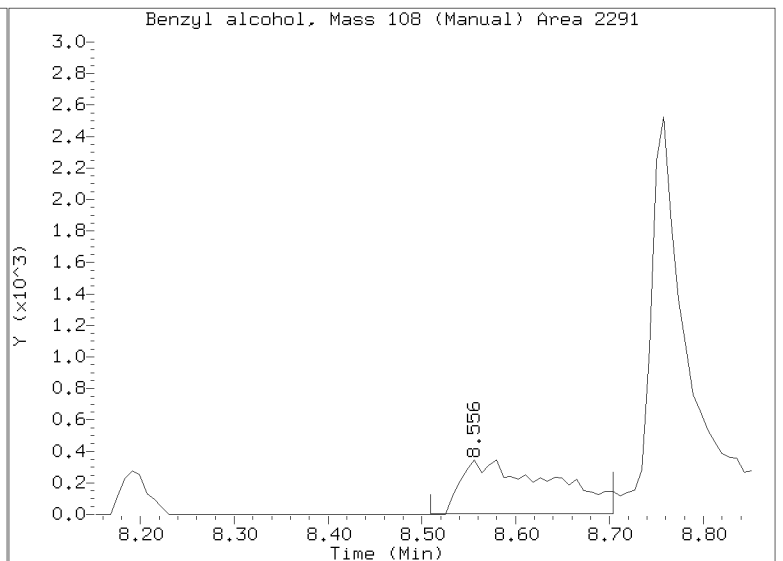
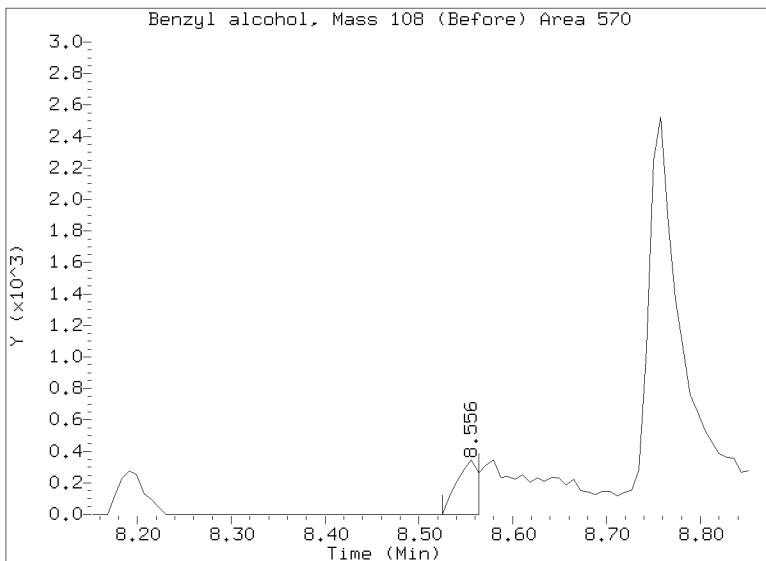
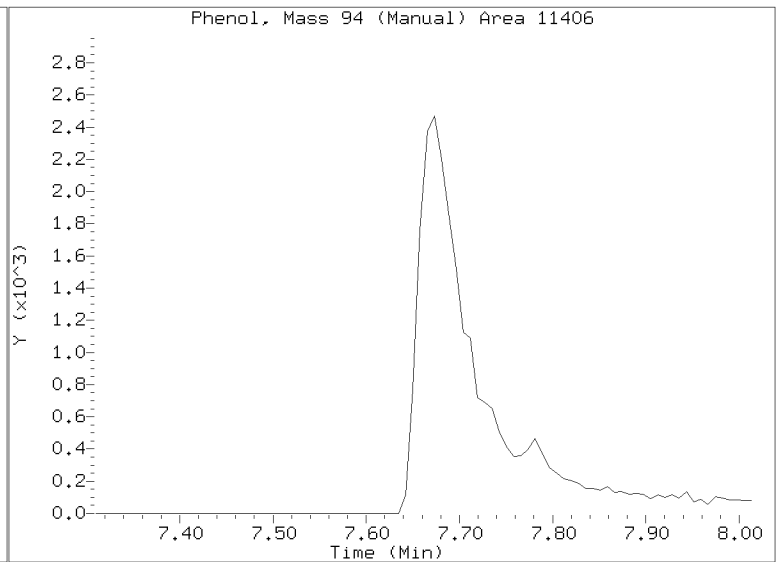
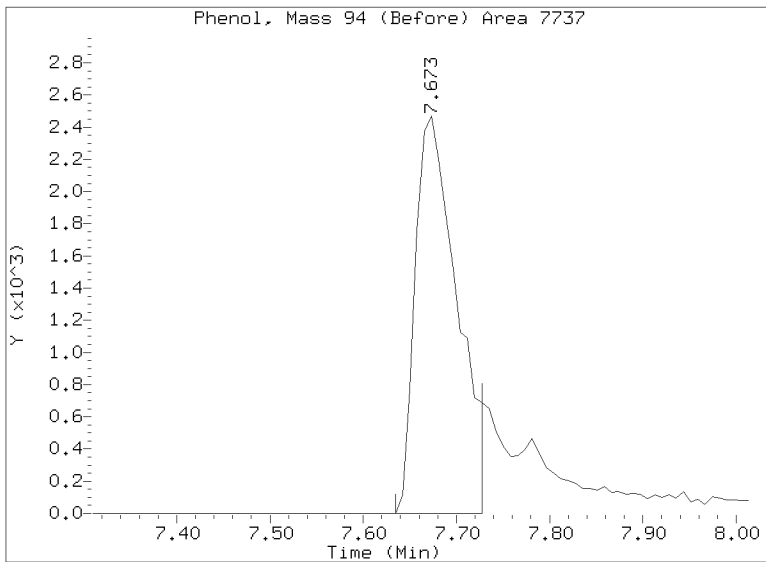
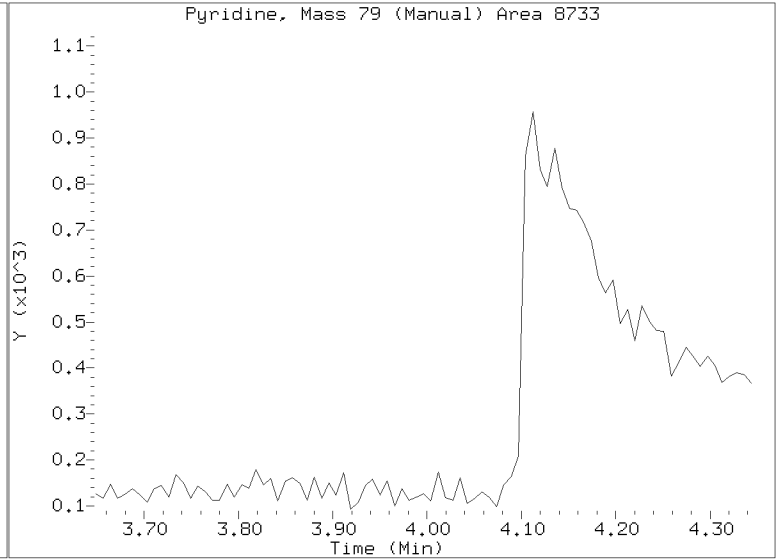
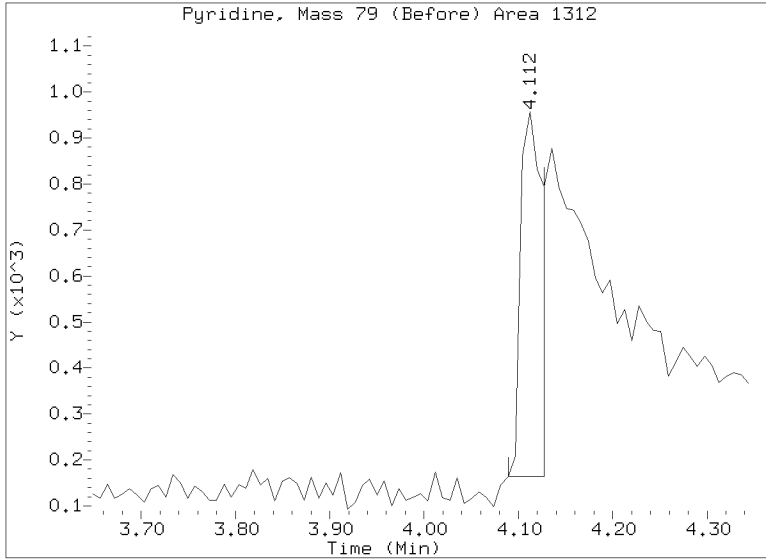
RRT check based on Ccal File: NT1423022821.D

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

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

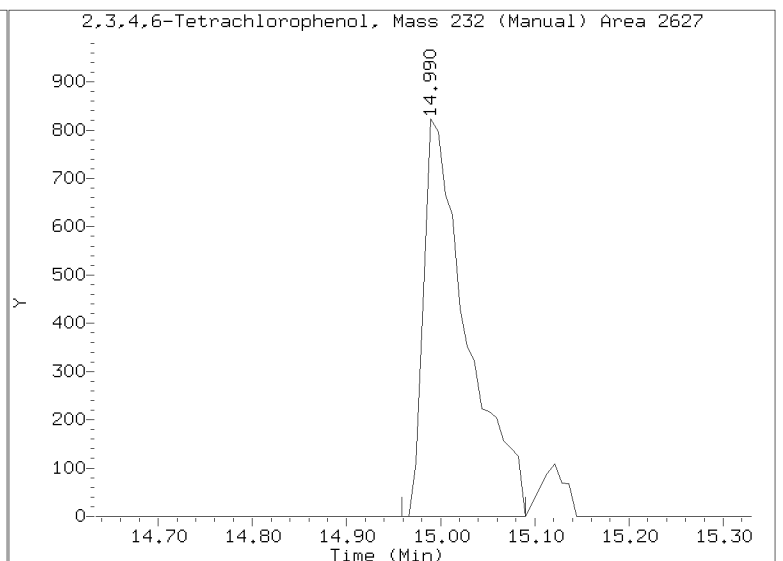
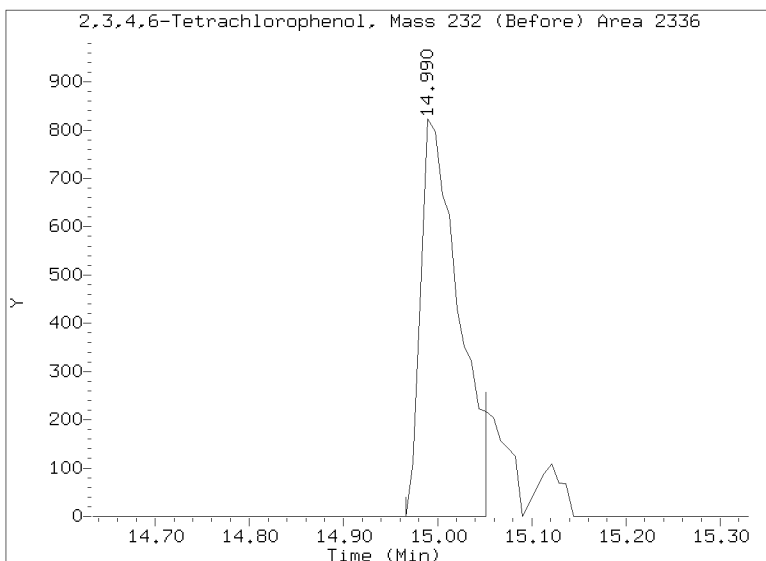
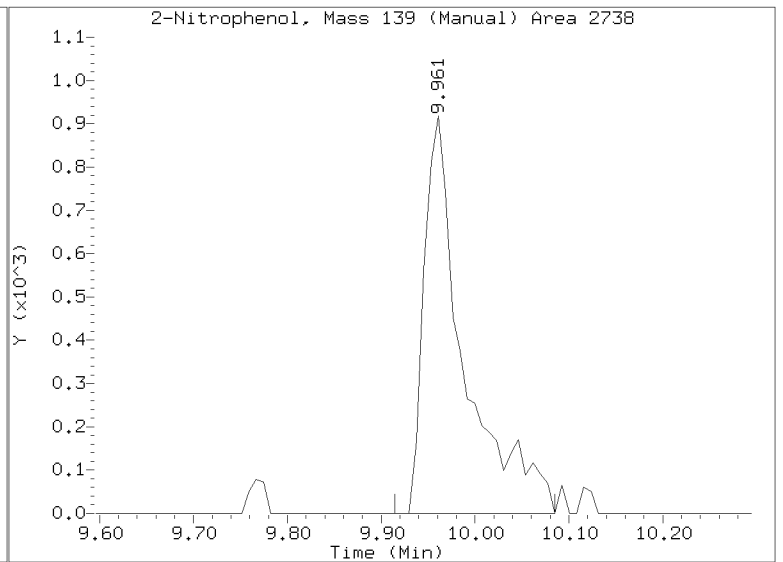
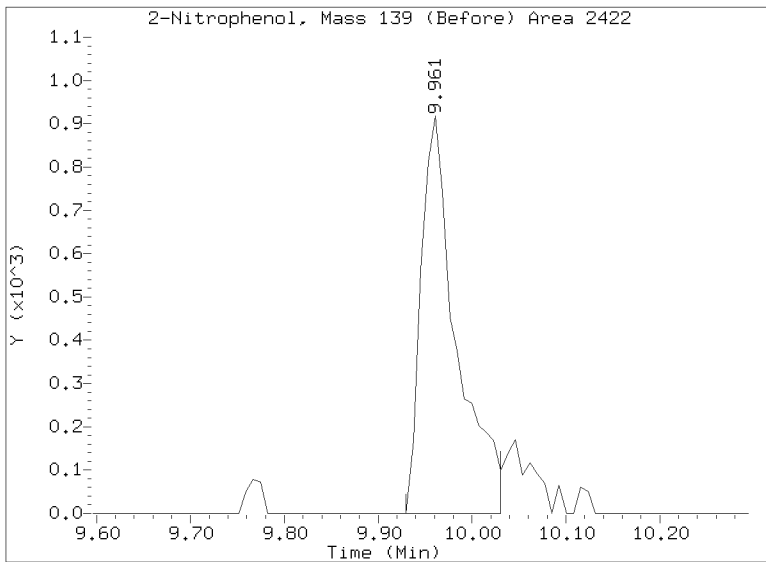
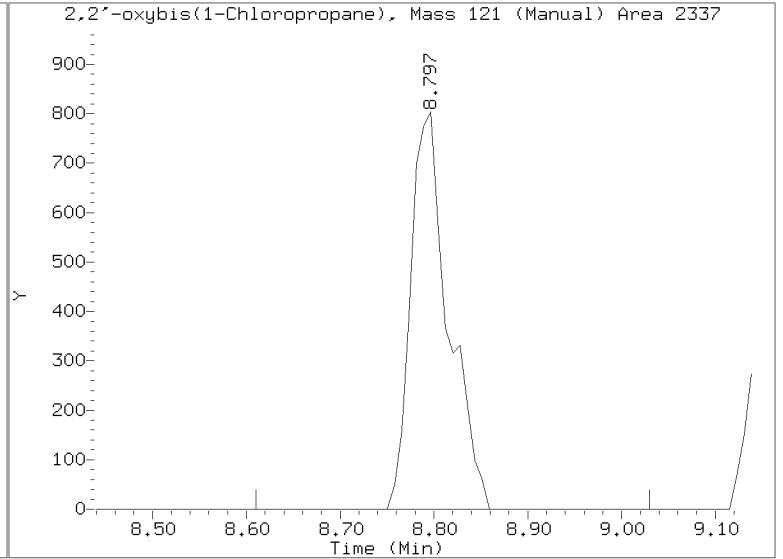
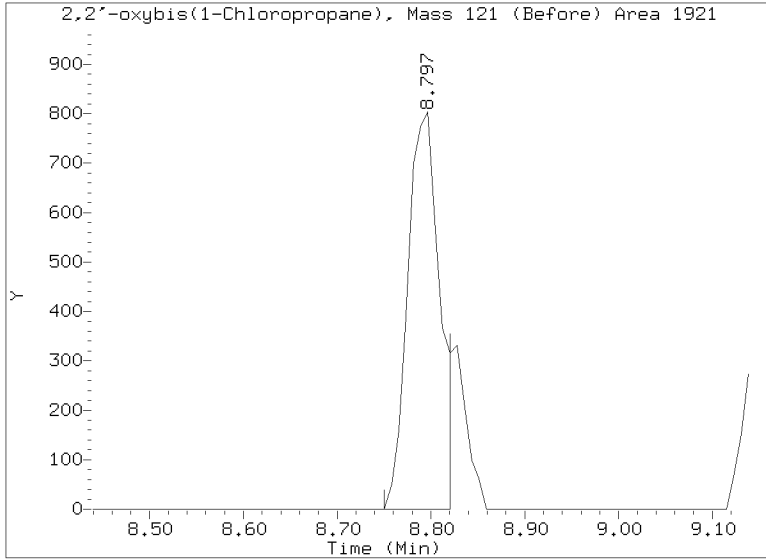
Quant Ion Manual Peak Adjustment Report

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Injection Date: 01-MAR-2023 14:51
Lab ID:SLB0374-LCV1 Client ID:
Report Date: 03/11/2023 09:11



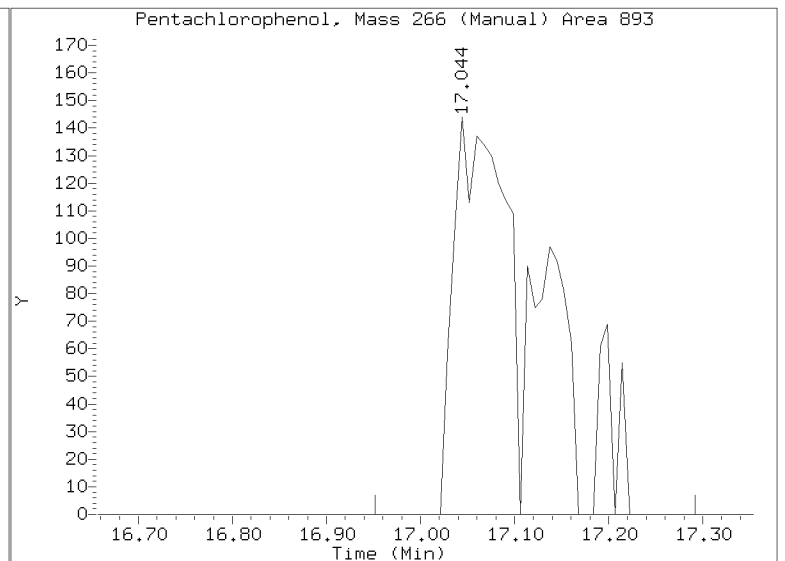
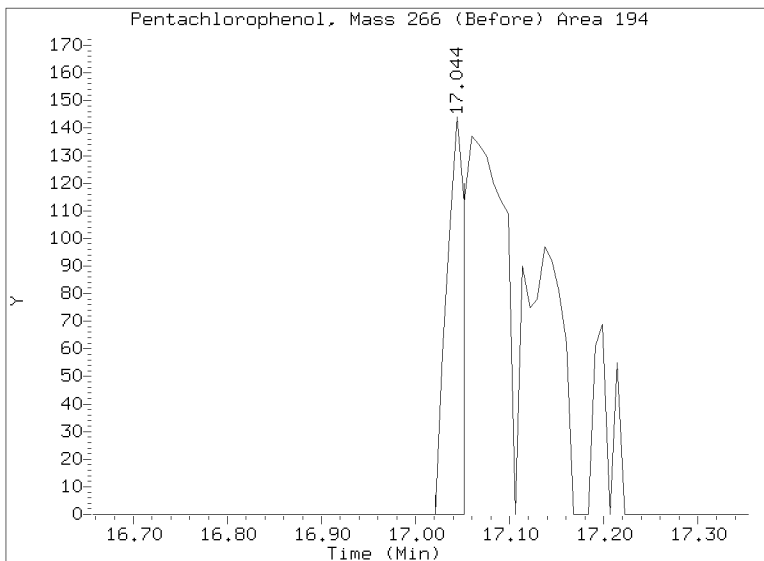
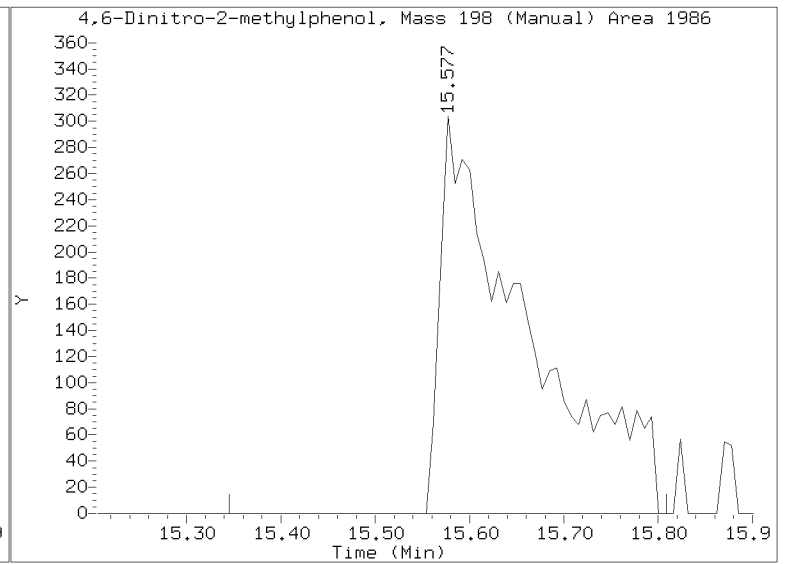
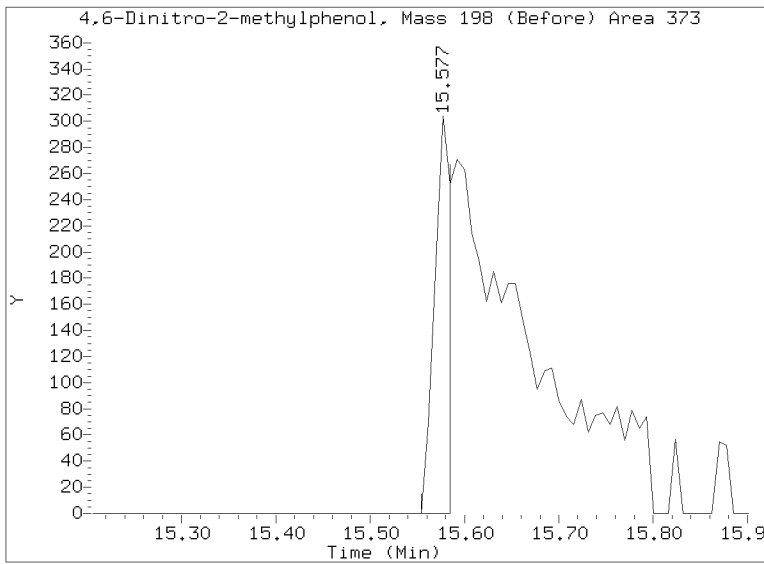
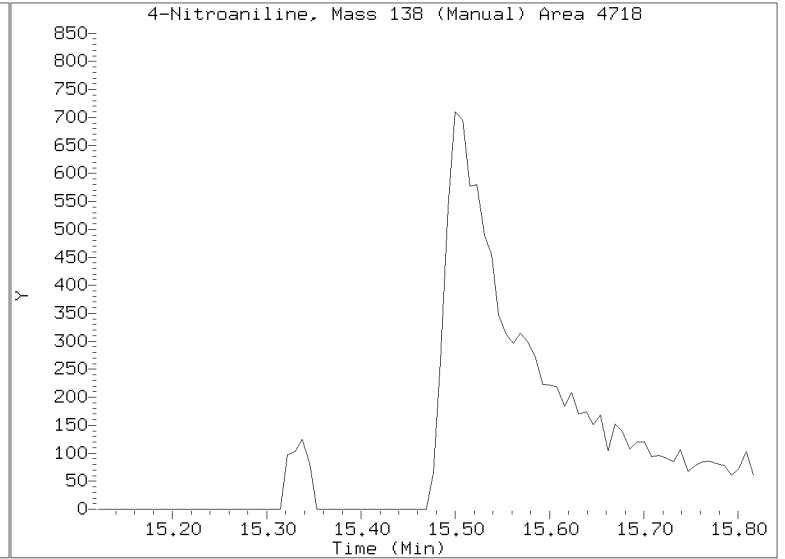
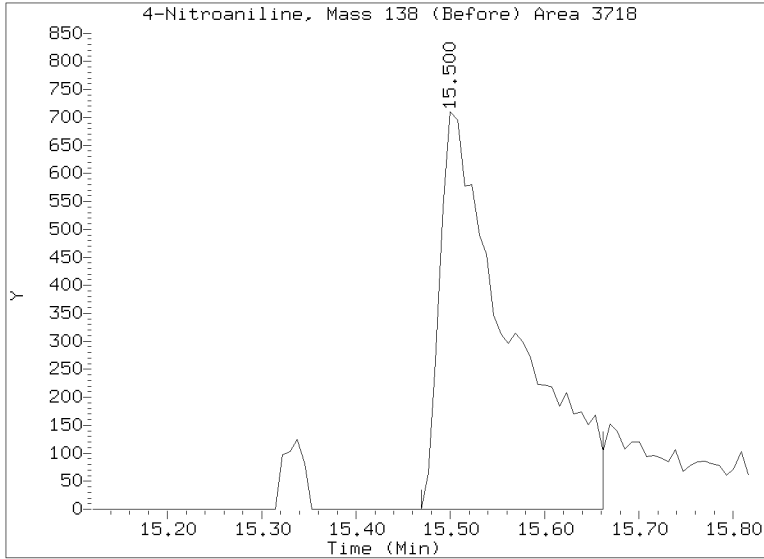
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230228.b/NT1423022823.D
Injection Date: 01-MAR-2023 14:51
Lab ID:SLB0374-LCV1 Client ID:
Report Date: 03/11/2023 09:11



Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230228.b/NT1423022823.D
Injection Date: 01-MAR-2023 14:51
Lab ID: SLB0374-LCV1 Client ID:
Report Date: 03/11/2023 09:11





**LOW-CONCENTRATION
CONTINUING CALIBRATION CHECK
EPA 8270E**

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: NT14

Calibration: GC00033

Lab File ID: NT1423022825.D

Calibration Date: 02/28/2023

Sequence: SLB0374

Injection Date: 03/01/23

Lab Sample ID: SLB0374-LCV2

Injection Time: 16:04

Sequence Name: ABN 0.5

| COMPOUND | TYPE | CONC. (ug/mL) | | RESPONSE FACTOR (RRF) | | | % DRIFT/DIFF | |
|------------------------------|------|---------------|------|-----------------------|-----------|-----|--------------|---------|
| | | STD | CCV | ICAL | CCV | MIN | CCV | LIMIT |
| Phenol | A | 0.50000 | 0.5 | 1.8373500 | 1.8348240 | | -0.1 | +/-50 |
| bis(2-chloroethyl) ether | A | 0.50000 | 0.5 | 1.5312550 | 1.3327710 | | 3.0 | +/-50 |
| 2-Chlorophenol | A | 0.50000 | 0.5 | 1.3533690 | 1.3119570 | | -3.1 | +/-50 |
| 1,3-Dichlorobenzene | A | 0.50000 | 0.5 | 1.4914740 | 1.5684780 | | 5.2 | +/-50 |
| 1,4-Dichlorobenzene | A | 0.50000 | 0.5 | 1.4740600 | 1.4895200 | | 1.0 | +/-50 |
| 1,2-Dichlorobenzene | A | 0.50000 | 0.5 | 1.4134490 | 1.4723900 | | 4.2 | +/-50 |
| Benzyl Alcohol | A | 0.50000 | 0.3 | 0.6439892 | 0.4611618 | | -42.4 | +/-50 |
| 2,2'-Oxybis(1-chloropropane) | A | 0.50000 | 0.5 | 0.3811859 | 0.3977989 | | 4.4 | +/-50 |
| 2-Methylphenol | A | 0.50000 | 0.5 | 1.1607310 | 1.1463040 | | -1.2 | +/-50 |
| Hexachloroethane | A | 0.50000 | 0.4 | 0.5535732 | 0.4649685 | | -16.0 | +/-50 |
| N-Nitroso-di-n-Propylamine | A | 0.50000 | 0.5 | 0.8837751 | 0.9689248 | | 9.6 | +/-50 |
| 4-Methylphenol | A | 0.50000 | 0.4 | 1.1353050 | 1.1399190 | | -15.6 | +/-50 |
| Nitrobenzene | A | 0.50000 | 0.6 | 0.3760061 | 0.4138800 | | 10.1 | +/-50 |
| Isophorone | A | 0.50000 | 0.4 | 0.4996273 | 0.5094310 | | -13.2 | +/-50 |
| 2-Nitrophenol | A | 0.50000 | 0.4 | 0.1467597 | 0.1453673 | | -25.3 | +/-50 |
| 2,4-Dimethylphenol | A | 1.0000 | 1.1 | 0.3427845 | 0.3755584 | | 9.6 | +/-50 |
| Bis(2-Chloroethoxy)methane | A | 0.50000 | 0.5 | 0.3780235 | 0.3764306 | | -0.4 | +/-50 |
| 2,4-Dichlorophenol | A | 1.0000 | 0.9 | 0.2946235 | 0.2978513 | | -14.1 | +/-50 |
| 1,2,4-Trichlorobenzene | A | 0.50000 | 0.5 | 0.3874001 | 0.3919546 | | 1.2 | +/-50 |
| Naphthalene | A | 0.50000 | 0.5 | 1.0669580 | 1.1306350 | | 6.0 | +/-50 |
| Benzoic acid | A | 2.0000 | 0.6 | 0.1358415 | 0.0385265 | | -71.6 | +/-50 * |
| 4-Chloroaniline | A | 1.0000 | 0.9 | 0.4563565 | 0.4319419 | | -5.4 | +/-50 |
| Hexachlorobutadiene | A | 0.50000 | 0.5 | 0.2363916 | 0.2597913 | | 9.9 | +/-50 |
| 4-Chloro-3-Methylphenol | A | 1.0000 | 1.0 | 0.3085482 | 0.3000055 | | -2.8 | +/-50 |
| 2-Methylnaphthalene | A | 0.50000 | 0.5 | 0.7901196 | 0.8011774 | | 1.4 | +/-50 |
| Hexachlorocyclopentadiene | A | 1.0000 | 0.03 | 0.3443795 | 0.0121975 | | -97.1 | +/-50 * |
| 2,4,6-Trichlorophenol | A | 1.0000 | 0.9 | 0.3907367 | 0.3646861 | | -6.7 | +/-50 |
| 2,4,5-Trichlorophenol | A | 1.0000 | 0.9 | 0.4224702 | 0.3705960 | | -12.3 | +/-50 |
| 2-Chloronaphthalene | A | 0.50000 | 0.5 | 1.2480280 | 1.2992850 | | 4.1 | +/-50 |
| 2-Nitroaniline | A | 1.0000 | 1.0 | 0.3254949 | 0.3411224 | | 4.8 | +/-50 |
| Acenaphthylene | A | 0.50000 | 0.6 | 1.8312950 | 2.0757850 | | 13.4 | +/-50 |
| Dimethylphthalate | A | 0.50000 | 0.5 | 1.2581570 | 1.3795140 | | 9.6 | +/-50 |
| 2,6-Dinitrotoluene | A | 1.0000 | 1.0 | 0.2948315 | 0.2931939 | | -0.6 | +/-50 |
| Acenaphthene | A | 0.50000 | 0.5 | 1.1724930 | 1.2219280 | | 4.2 | +/-50 |

* Values outside of QC limits



**LOW-CONCENTRATION
CONTINUING CALIBRATION CHECK
EPA 8270E**

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: NT14

Calibration: GC00033

Lab File ID: NT1423022825.D

Calibration Date: 02/28/2023

Sequence: SLB0374

Injection Date: 03/01/23

Lab Sample ID: SLB0374-LCV2

Injection Time: 16:04

Sequence Name: ABN 0.5

| COMPOUND | TYPE | CONC. (ug/mL) | | RESPONSE FACTOR (RRF) | | | % DRIFT/DIFF | |
|----------------------------|------|---------------|-------|-----------------------|-----------|-----|--------------|---------|
| | | STD | CCV | ICAL | CCV | MIN | CCV | LIMIT |
| 3-Nitroaniline | A | 1.0000 | 0.9 | 0.3021810 | 0.2753888 | | -8.9 | +/-50 |
| 2,4-Dinitrophenol | A | 2.0000 | 0.3 | 0.1437811 | 0.0310833 | | -83.3 | +/-50 * |
| Dibenzofuran | A | 0.50000 | 0.5 | 1.8656210 | 1.8958900 | | 1.6 | +/-50 |
| 4-Nitrophenol | A | 1.0000 | 0.7 | 0.1323756 | 0.1088557 | | -27.2 | +/-50 |
| 2,4-Dinitrotoluene | A | 1.0000 | 0.9 | 0.4244424 | 0.3660918 | | -13.7 | +/-50 |
| Fluorene | A | 0.50000 | 0.5 | 1.5719010 | 1.6831060 | | 7.1 | +/-50 |
| 4-Chlorophenylphenyl ether | A | 0.50000 | 0.5 | 0.8363665 | 0.8484455 | | 1.4 | +/-50 |
| Diethyl phthalate | A | 0.50000 | 0.5 | 1.1765440 | 1.2787290 | | 8.7 | +/-50 |
| 4-Nitroaniline | A | 1.0000 | 0.8 | 0.2995450 | 0.2417436 | | -19.3 | +/-50 |
| 4,6-Dinitro-2-methylphenol | A | 2.0000 | 0.8 | 0.0975169 | 0.0508922 | | -61.7 | +/-50 * |
| N-Nitrosodiphenylamine | A | 0.50000 | 0.6 | 0.5026629 | 0.5581809 | | 11.0 | +/-50 |
| 4-Bromophenyl phenyl ether | A | 0.50000 | 0.5 | 0.2209900 | 0.2269626 | | 2.7 | +/-50 |
| Hexachlorobenzene | A | 0.50000 | 0.5 | 0.2429692 | 0.2525975 | | 4.0 | +/-50 |
| Pentachlorophenol | A | 1.0000 | 0.4 | 0.0938263 | 0.0489652 | | -57.2 | +/-50 * |
| Phenanthrene | A | 0.50000 | 0.5 | 1.0640870 | 1.0907910 | | 2.5 | +/-50 |
| Anthracene | A | 0.50000 | 0.5 | 1.0059580 | 1.0440660 | | 3.8 | +/-50 |
| Carbazole | A | 0.50000 | 0.5 | 0.8816605 | 0.8729186 | | -1.0 | +/-50 |
| Di-n-Butylphthalate | A | 0.50000 | 0.5 | 0.9469101 | 1.0882950 | | -4.3 | +/-50 |
| Fluoranthene | A | 0.50000 | 0.5 | 1.5175930 | 1.5566980 | | 2.6 | +/-50 |
| Pyrene | A | 0.50000 | 0.5 | 1.6000330 | 1.6380530 | | 2.4 | +/-50 |
| Butylbenzylphthalate | A | 0.50000 | 0.5 | 0.4562763 | 0.5790723 | | 2.4 | +/-50 |
| Benzo(a)anthracene | A | 0.50000 | 0.5 | 1.3399020 | 1.4612620 | | 9.1 | +/-50 |
| 3,3'-Dichlorobenzidine | A | 1.5000 | 1.9 | 0.3826468 | 0.4729977 | | 23.6 | +/-50 |
| Chrysene | A | 0.50000 | 0.5 | 1.2879040 | 1.3717980 | | 6.5 | +/-50 |
| bis(2-Ethylhexyl)phthalate | A | 0.50000 | 0.5 | 0.5161185 | 0.5544199 | | -9.2 | +/-50 |
| Di-n-Octylphthalate | A | 0.50000 | 0.5 | 1.0531830 | 1.0539710 | | 0.07 | +/-50 |
| Benzofluoranthenes, Total | A | 1.0000 | 1.1 | 1.2927770 | 1.3633150 | | 5.5 | +/-50 |
| Benzo(a)pyrene | A | 0.50000 | 0.5 | 1.1338150 | 1.2403770 | | 9.4 | +/-50 |
| Indeno(1,2,3-cd)pyrene | A | 0.50000 | 0.3 | 1.4272450 | 0.9301030 | | -34.8 | +/-50 |
| Dibenzo(a,h)anthracene | A | 0.50000 | 0.4 | 1.2122070 | 0.8567772 | | -29.3 | +/-50 |
| Benzo(g,h,i)perylene | A | 0.50000 | 0.2 | 1.2448130 | 0.5807033 | | -53.4 | +/-50 * |
| 1-Methylnaphthalene | A | 0.50000 | 0.5 | 0.7274101 | 0.7436689 | | 2.2 | +/-50 |
| 2-Fluorophenol | A | 0.75000 | 0.690 | 1.0846110 | 0.9980480 | | -8.0 | +/-50 |
| Phenol-d5 | A | 0.75000 | 0.751 | 1.5399100 | 1.5410950 | | 0.08 | +/-50 |

* Values outside of QC limits



**LOW-CONCENTRATION
CONTINUING CALIBRATION CHECK
EPA 8270E**

| | | | |
|----------------|----------------------------------|-------------------|------------------------|
| Laboratory: | <u>Analytical Resources, LLC</u> | SDG: | <u>23A0180</u> |
| Client: | <u>Anchor QEA, LLC</u> | Project: | <u>AOC5 MR Phase 1</u> |
| Instrument ID: | <u>NT14</u> | Calibration: | <u>GC00033</u> |
| Lab File ID: | <u>NT1423022825.D</u> | Calibration Date: | <u>02/28/2023</u> |
| Sequence: | <u>SLB0374</u> | Injection Date: | <u>03/01/23</u> |
| Lab Sample ID: | <u>SLB0374-LCV2</u> | Injection Time: | <u>16:04</u> |
| Sequence Name: | <u>ABN 0.5</u> | | |

| COMPOUND | TYPE | CONC. (ug/mL) | | RESPONSE FACTOR (RRF) | | | % DRIFT/DIFF | |
|------------------------|------|---------------|-------|-----------------------|-----------|-----|--------------|-------|
| | | STD | CCV | ICAL | CCV | MIN | CCV | LIMIT |
| 2-Chlorophenol-d4 | A | 0.75000 | 0.753 | 1.3093910 | 1.3144530 | | 0.4 | +/-50 |
| 1,2-Dichlorobenzene-d4 | A | 0.50000 | 0.511 | 0.9857584 | 1.0066230 | | 2.1 | +/-50 |
| Nitrobenzene-d5 | A | 0.50000 | 0.540 | 0.3912861 | 0.4224444 | | 8.0 | +/-50 |
| 2-Fluorobiphenyl | A | 0.50000 | 0.523 | 1.5568580 | 1.6293890 | | 4.7 | +/-50 |
| 2,4,6-Tribromophenol | A | 0.75000 | 0.624 | 0.1850894 | 0.1788969 | | -16.9 | +/-50 |
| p-Terphenyl-d14 | A | 0.50000 | 0.515 | 1.2319340 | 1.2690590 | | 3.0 | +/-50 |

* Values outside of QC limits

* Values outside of QC limits

Data File: \\target\share\chem3\nt14,1\20230228,16\NT1423022825.D

Date: 01-MAR-2023 16:04

Client ID:

Sample Info: SLB0374-LCW2

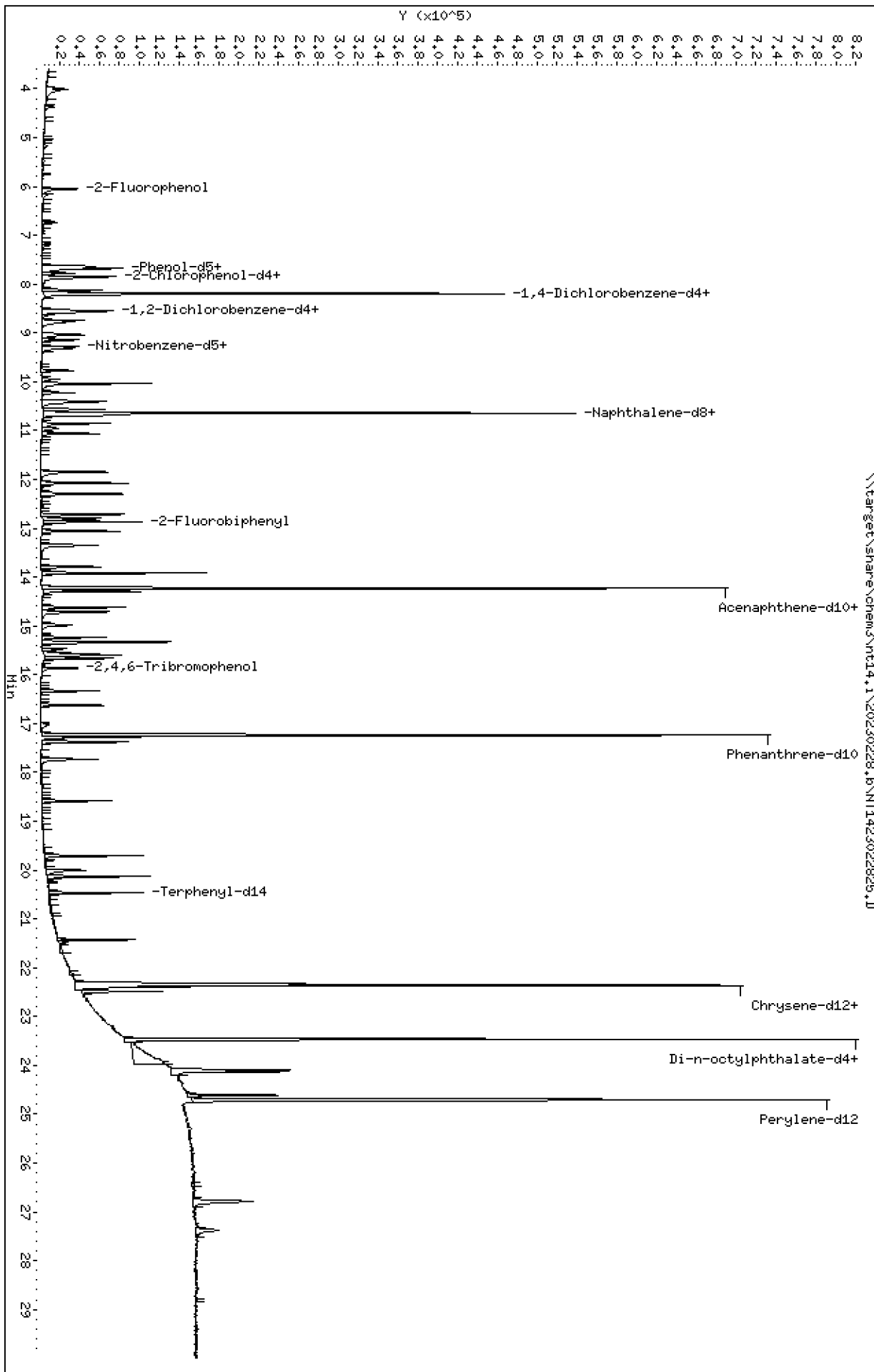
Column phase: ZB-5msi

Instrument: nt14,1

Operator: JGR

Column diameter: 0.25

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Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

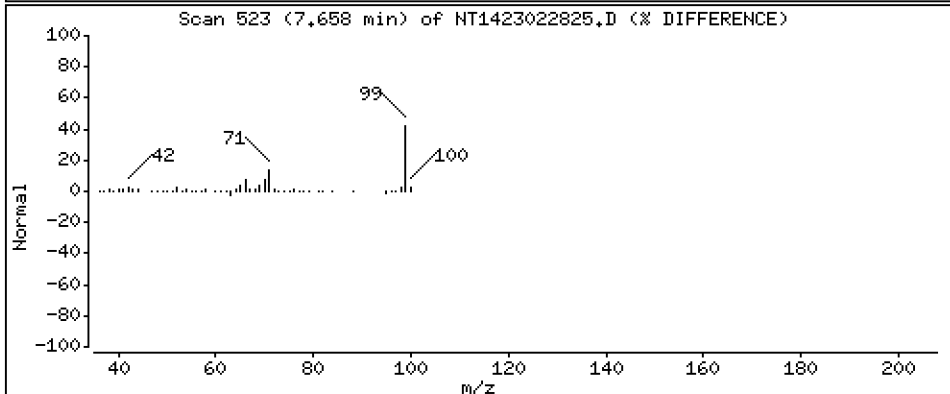
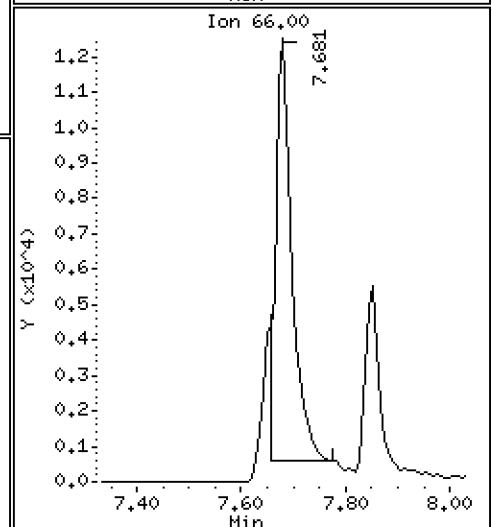
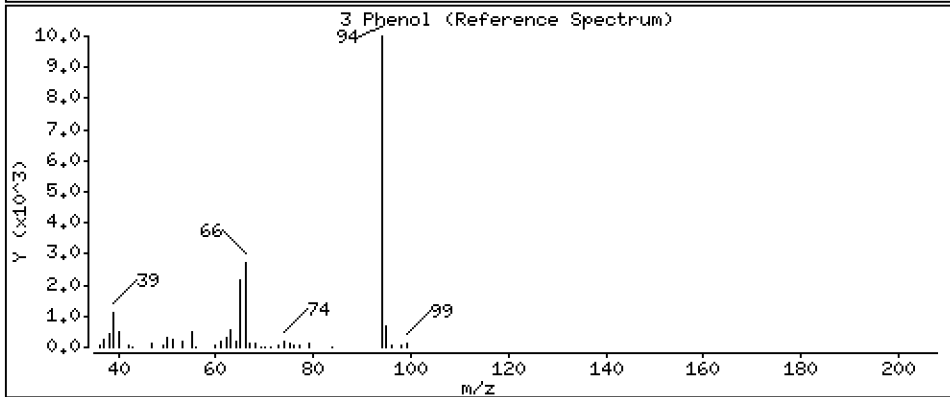
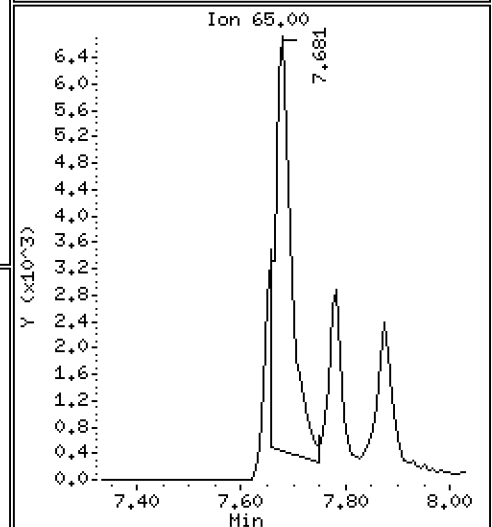
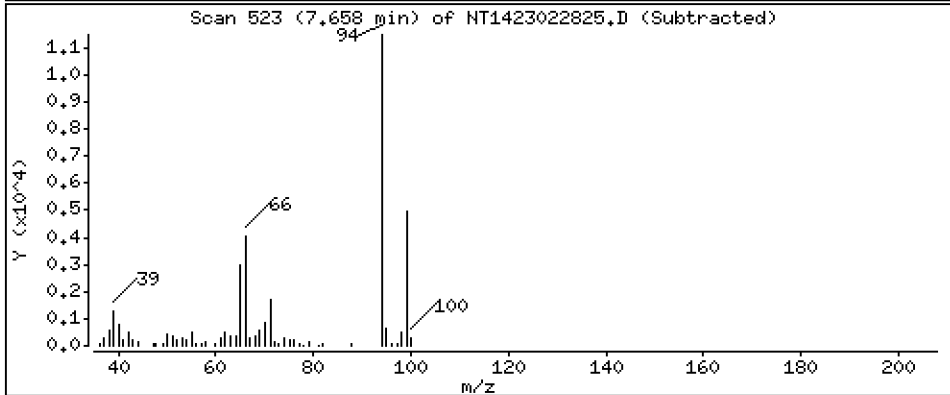
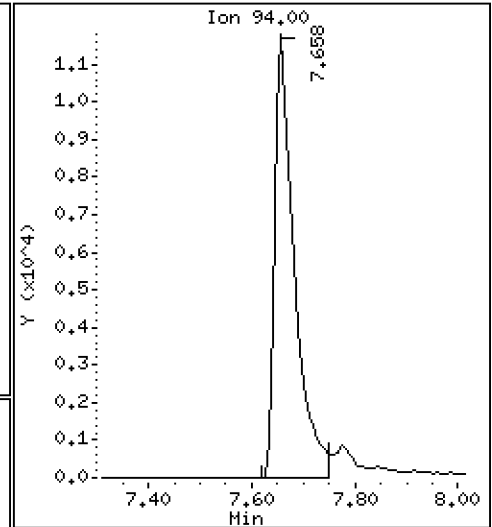
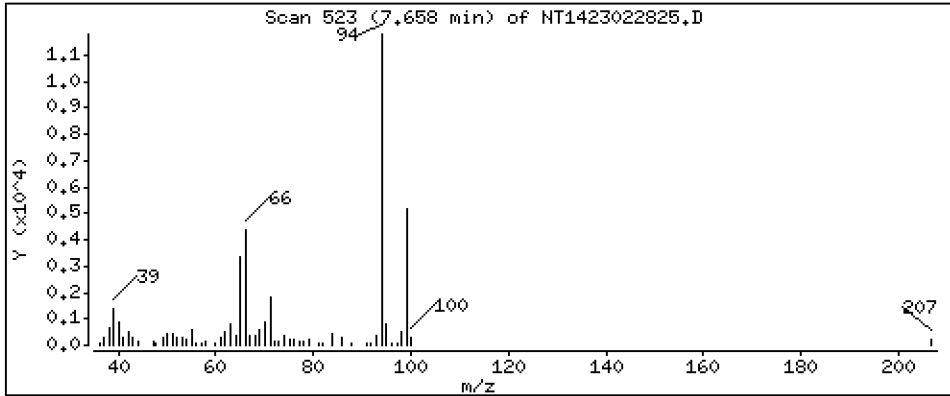
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

3 Phenol

Concentration: 0.4993 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

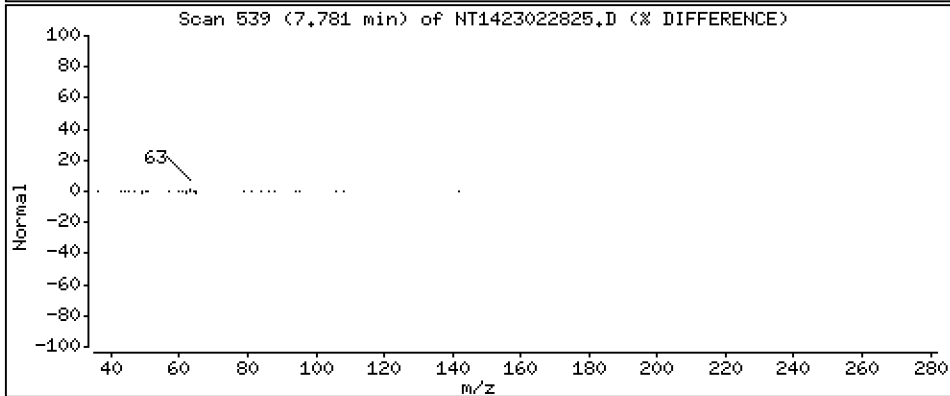
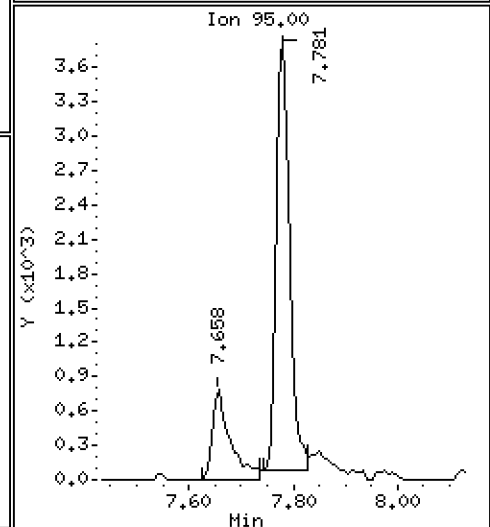
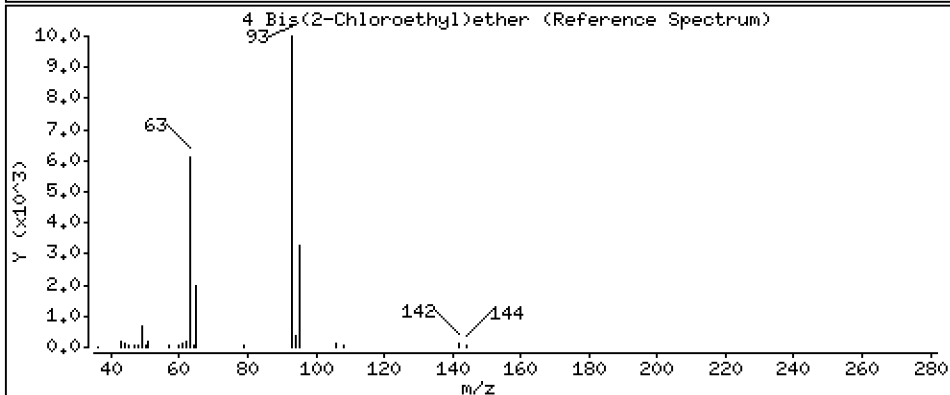
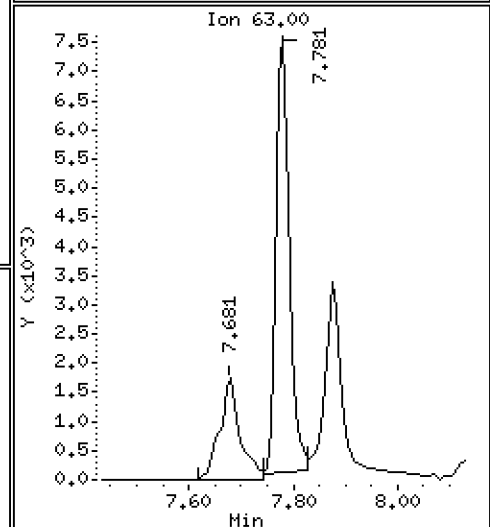
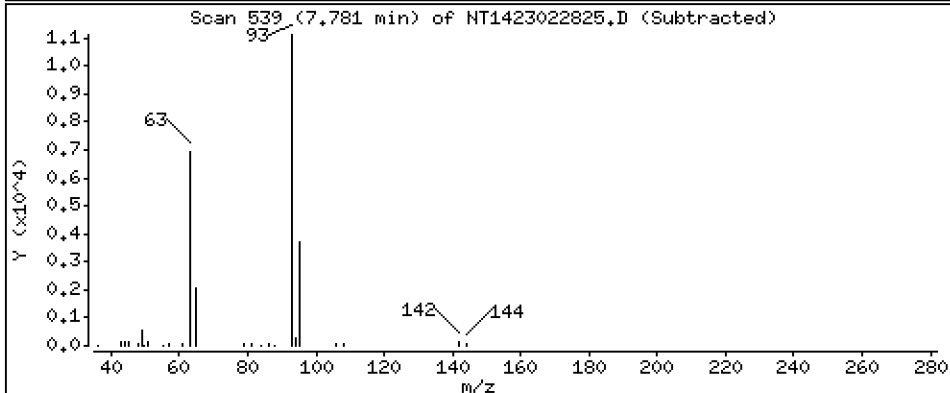
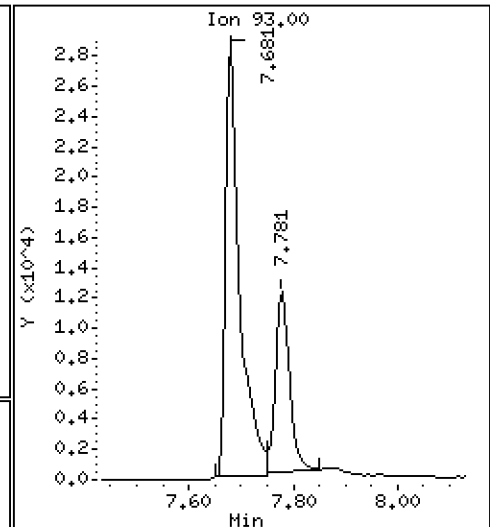
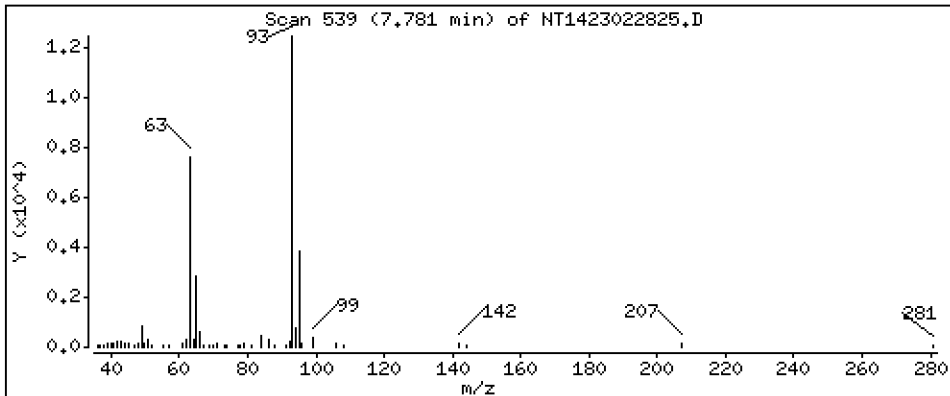
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

4 Bis(2-Chloroethyl)ether

Concentration: 0.5148 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

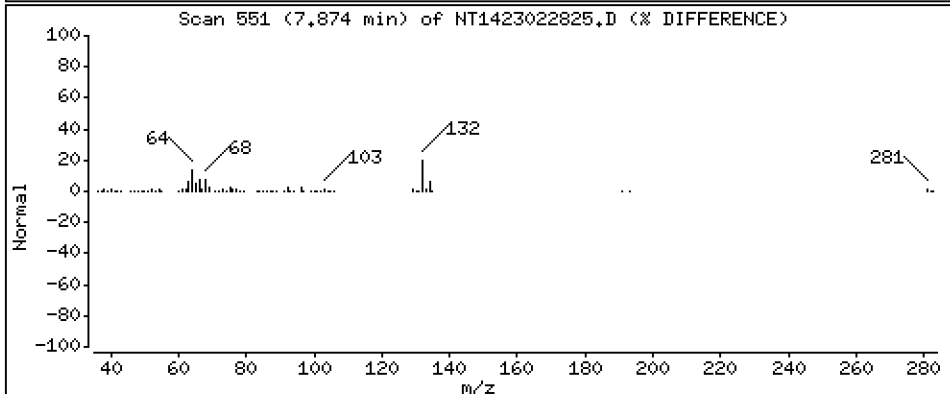
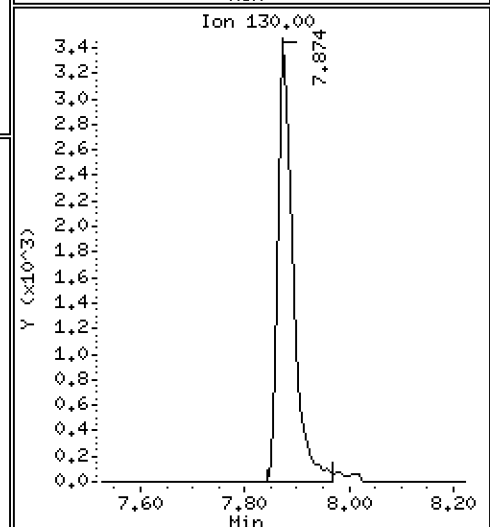
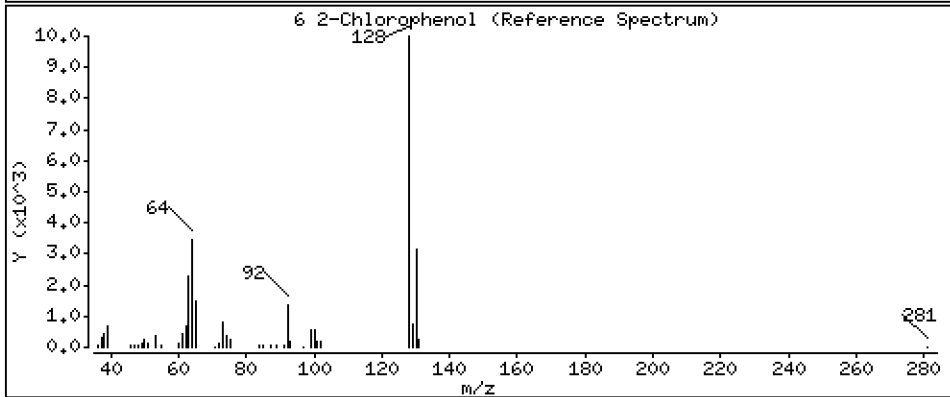
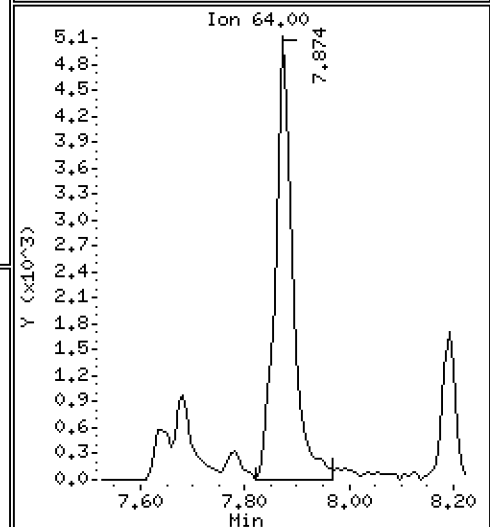
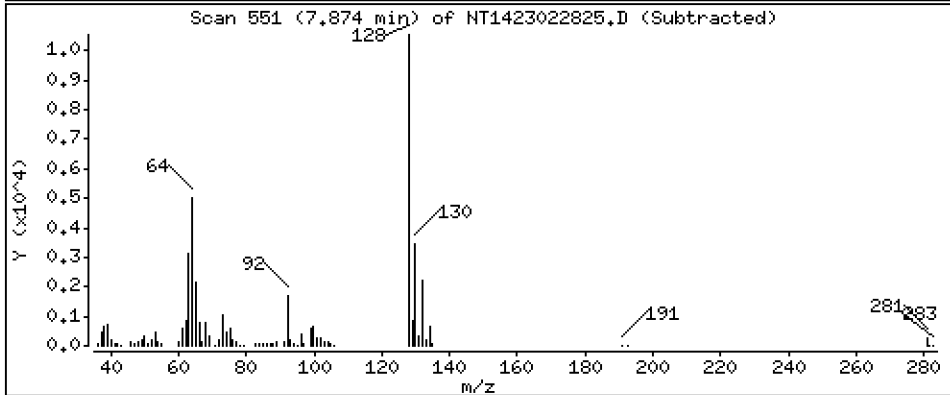
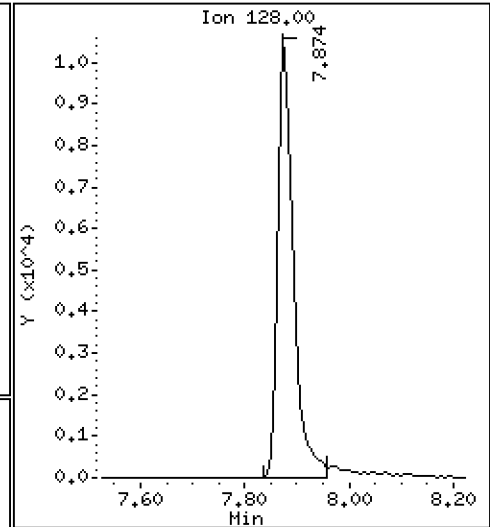
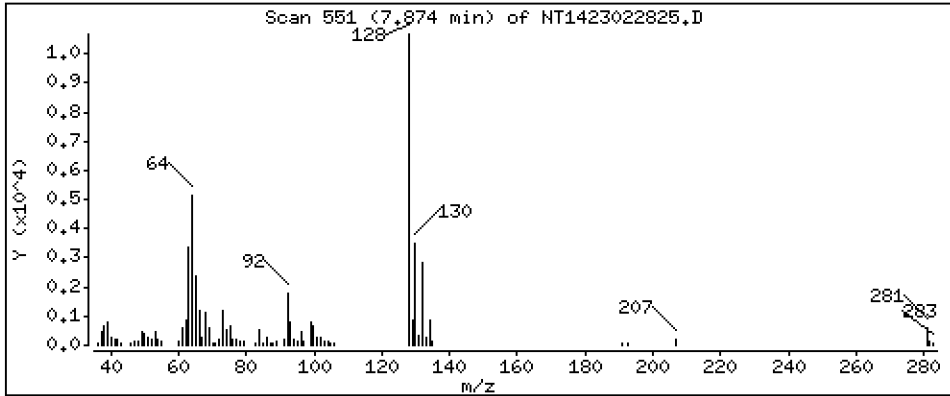
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 0,4847 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

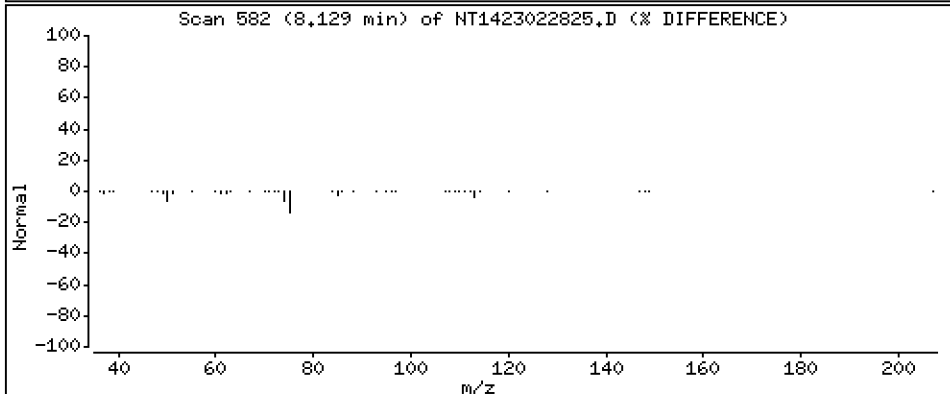
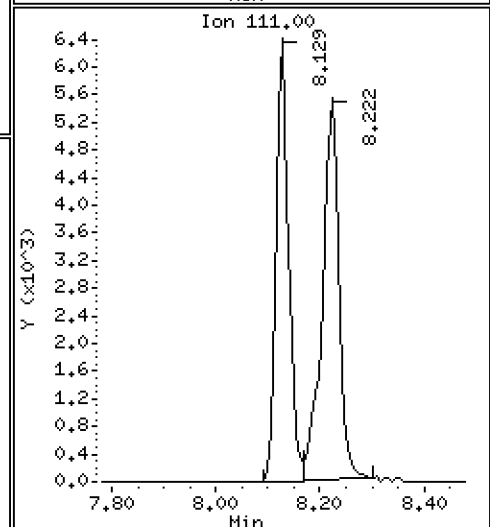
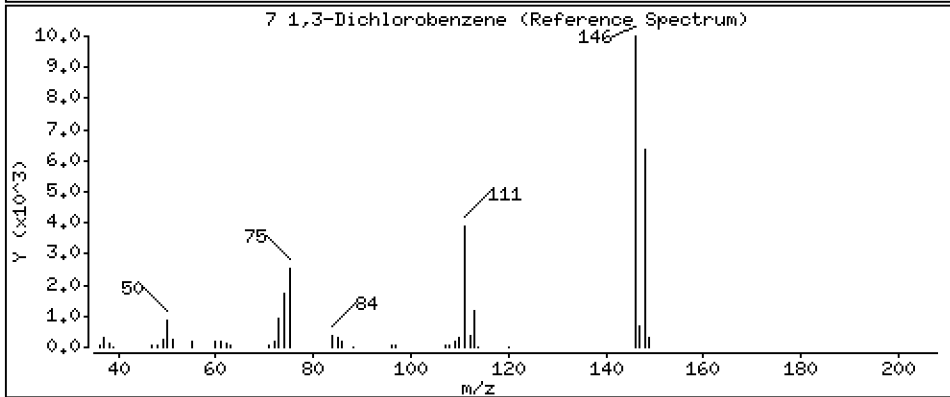
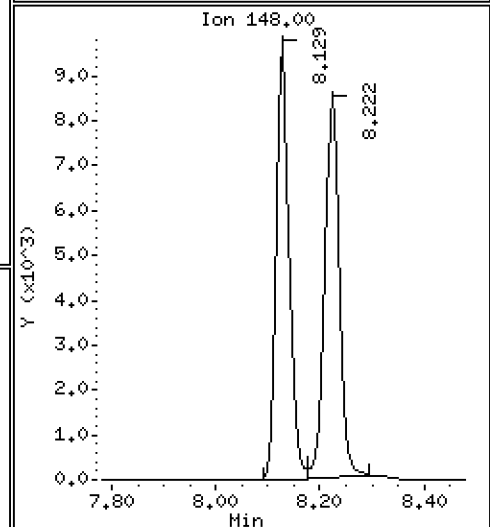
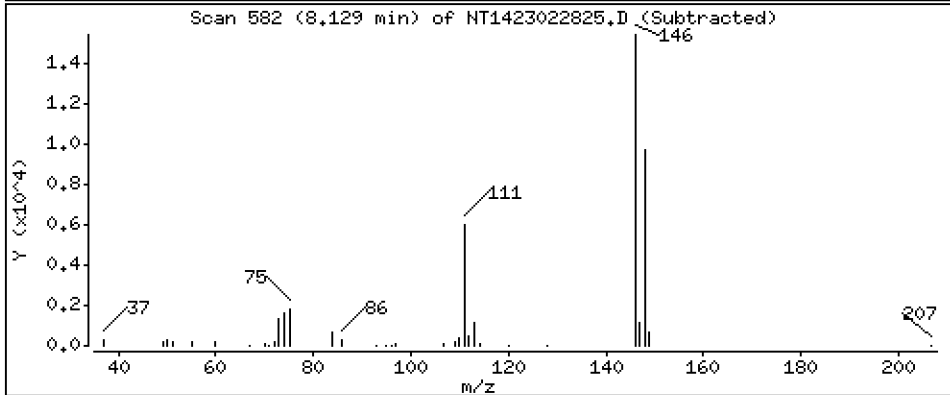
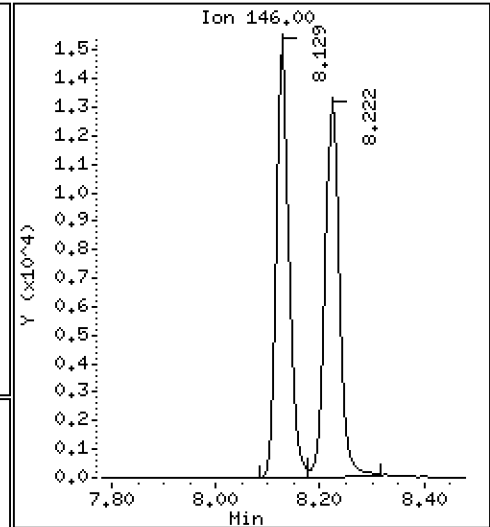
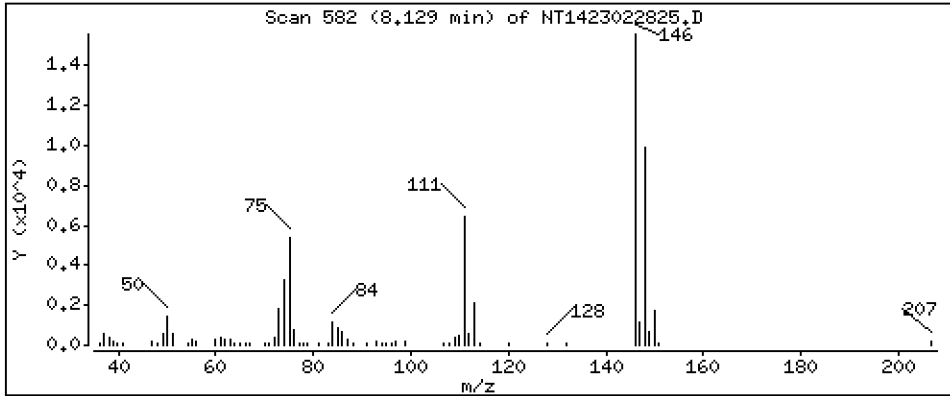
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

7 1,3-Dichlorobenzene

Concentration: 0,5258 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

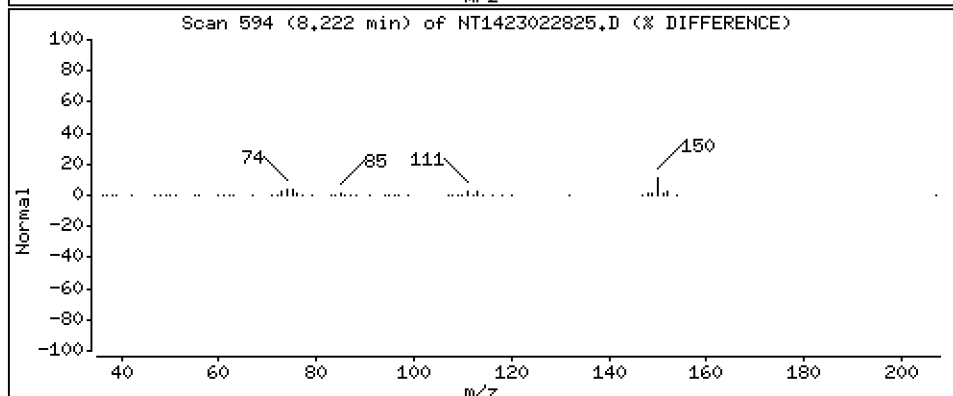
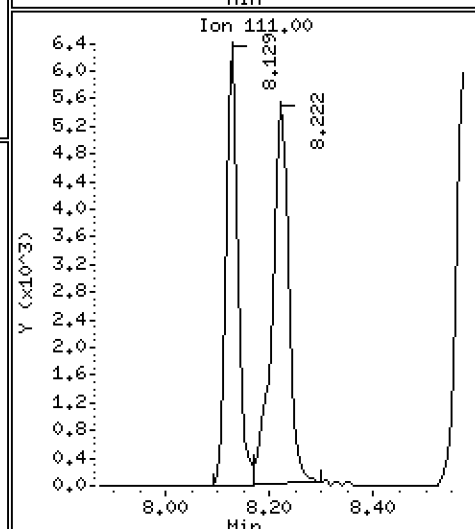
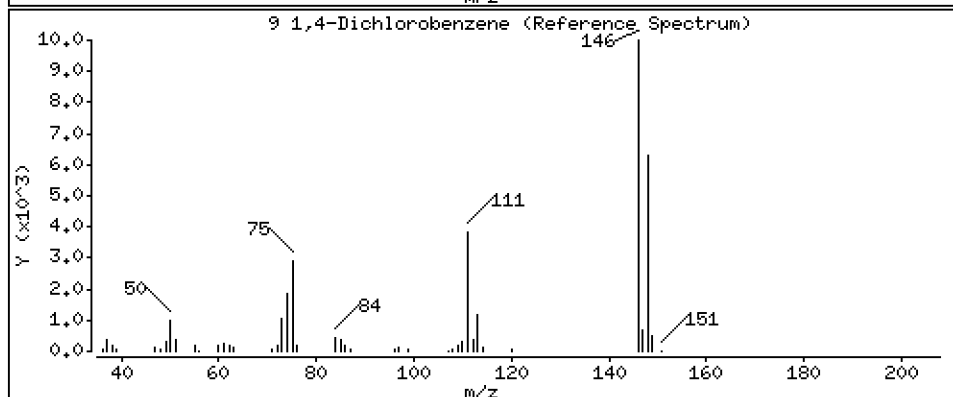
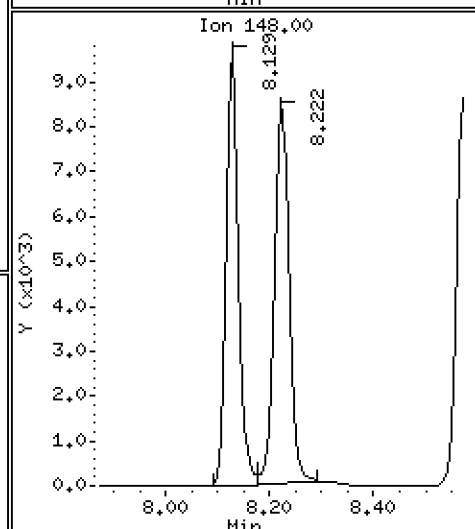
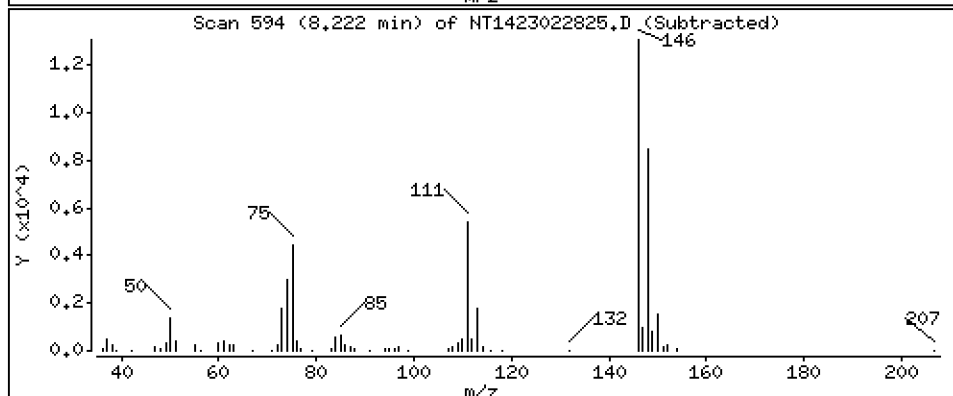
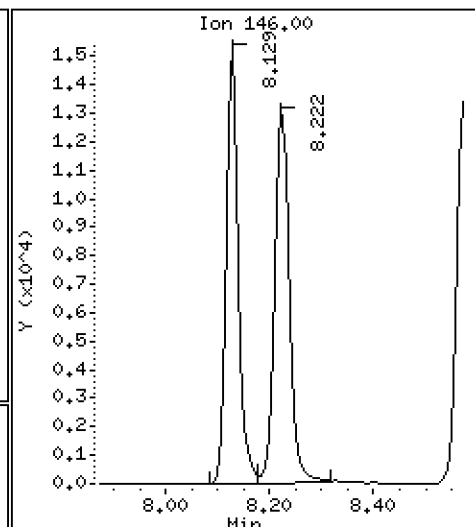
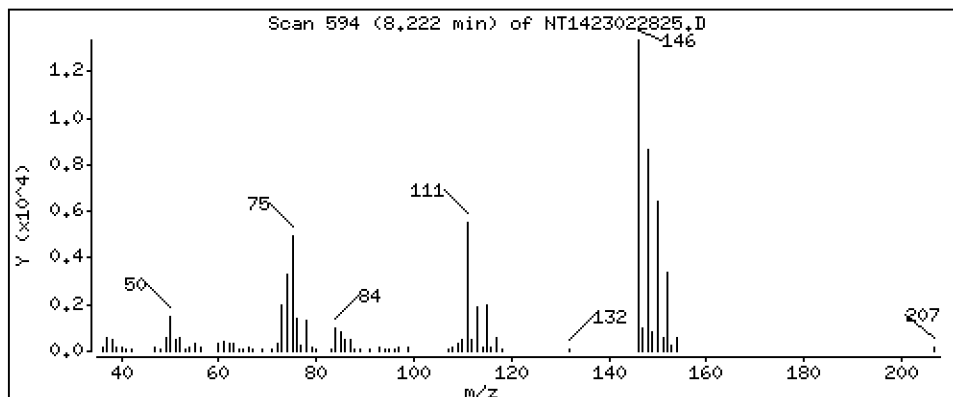
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 0,5052 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

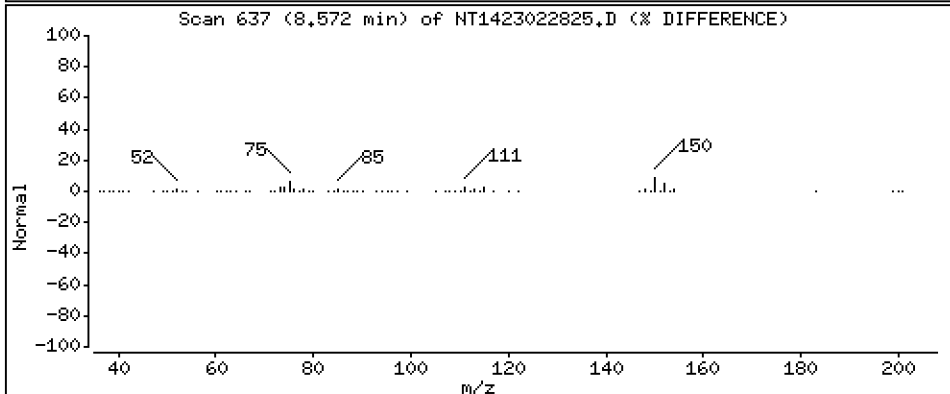
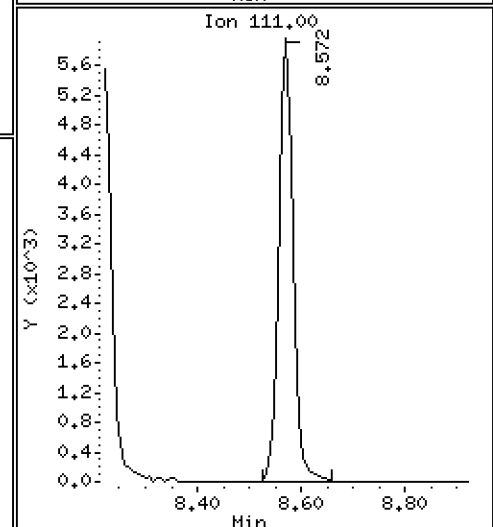
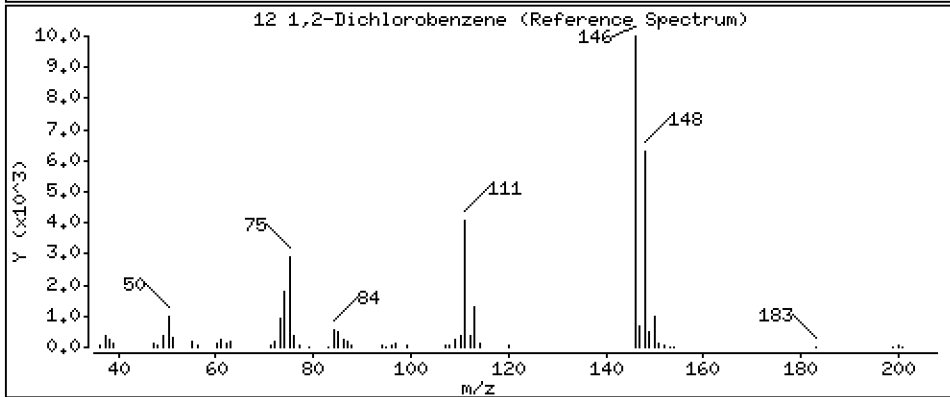
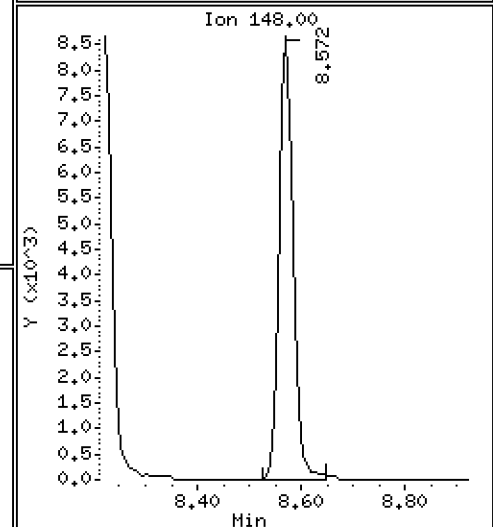
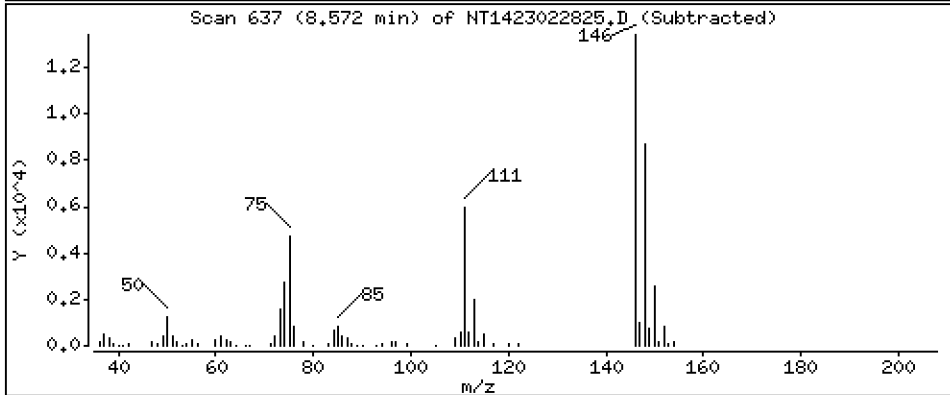
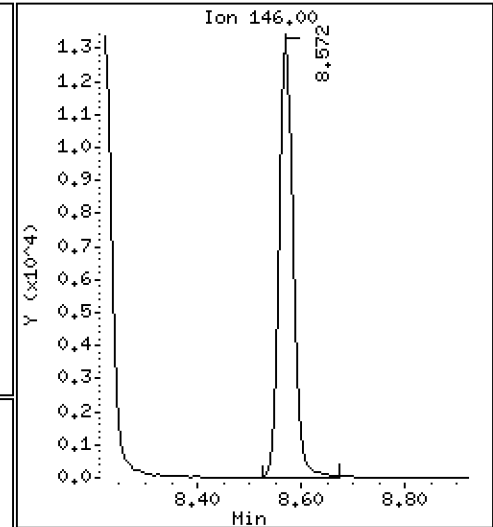
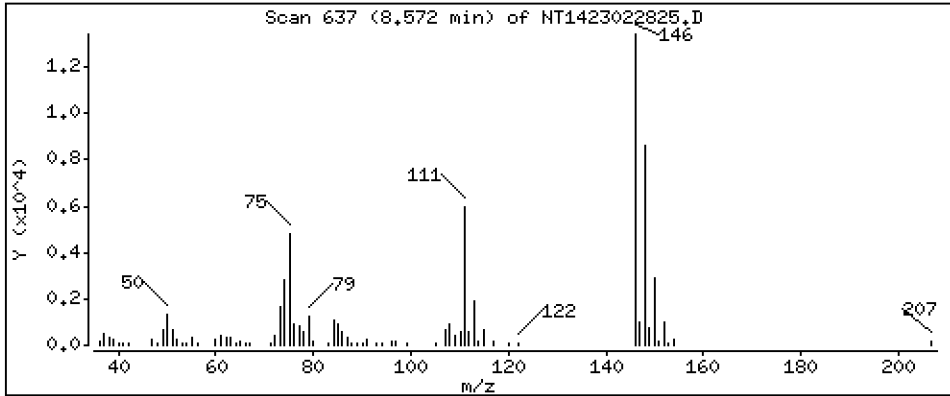
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

12 1,2-Dichlorobenzene

Concentration: 0.5209 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

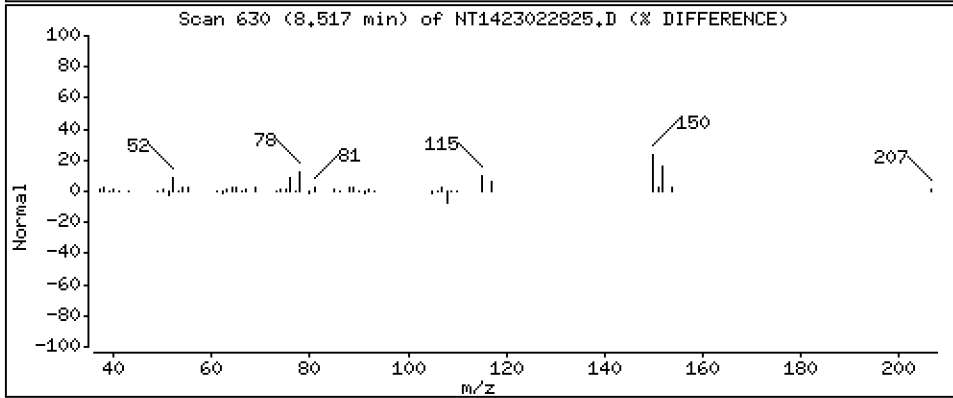
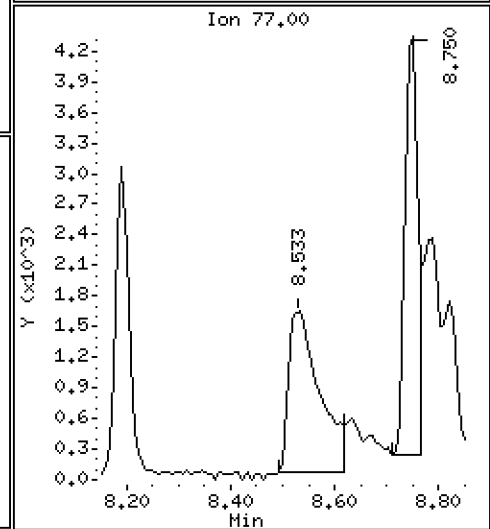
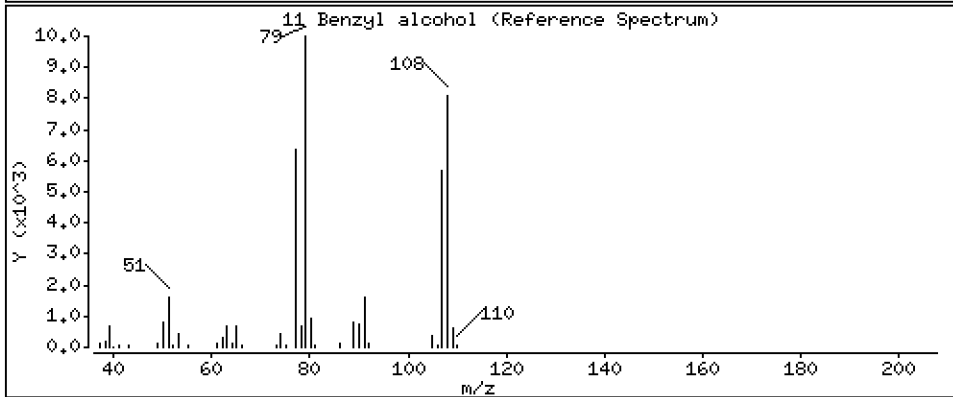
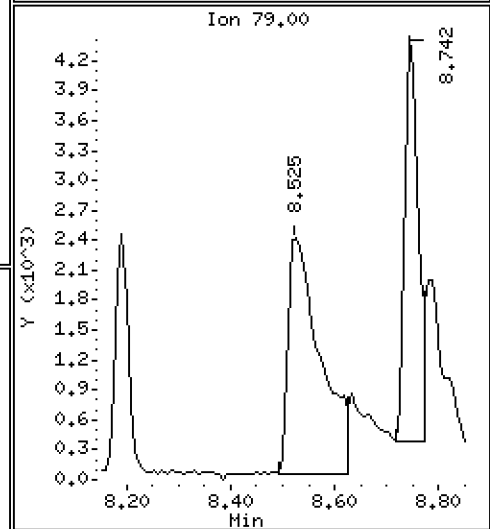
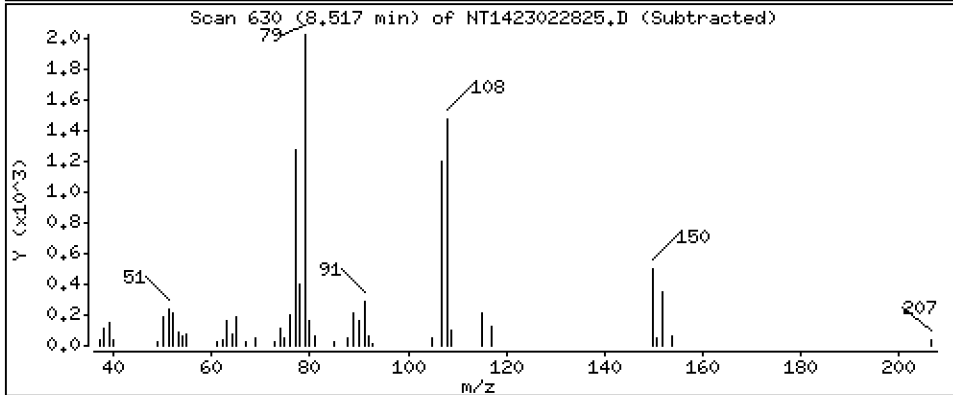
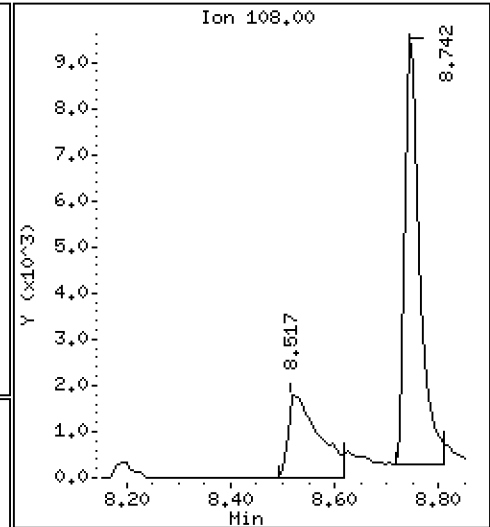
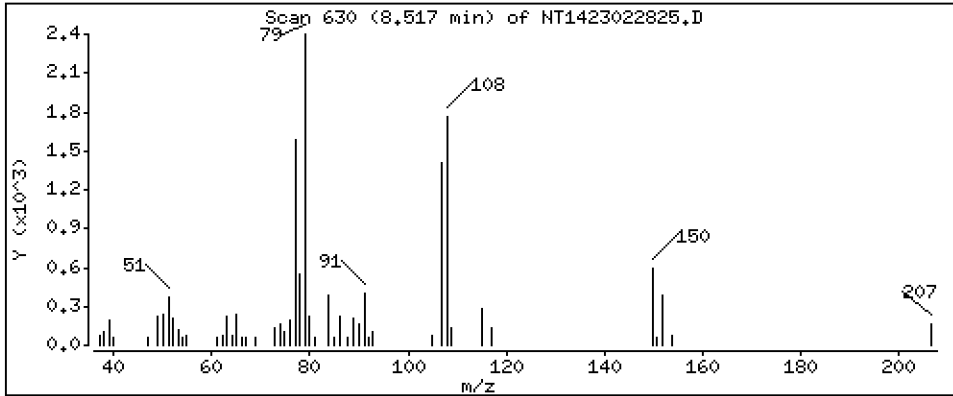
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 0.2878 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

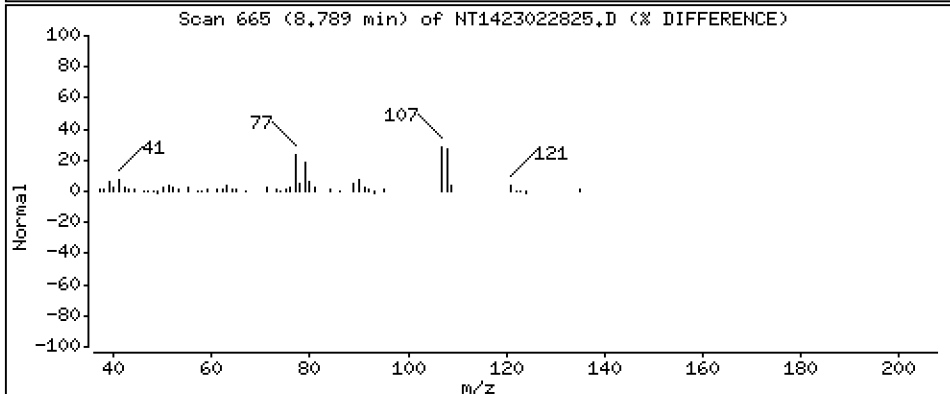
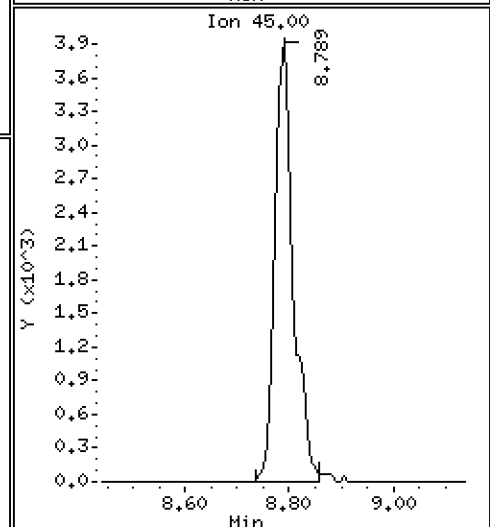
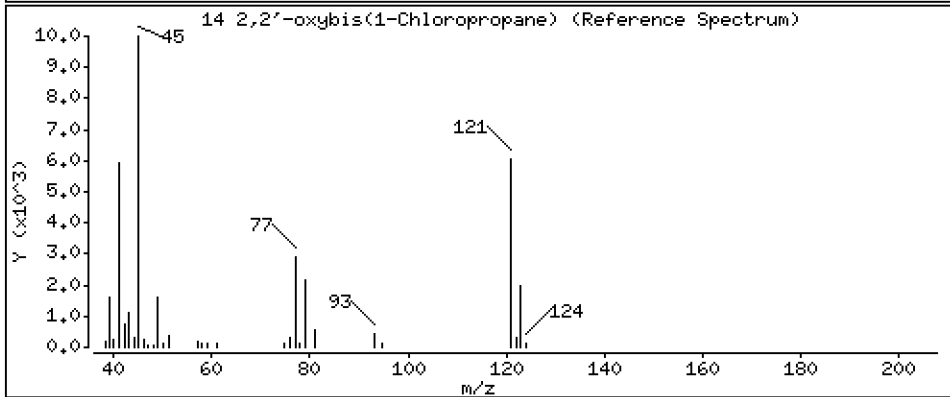
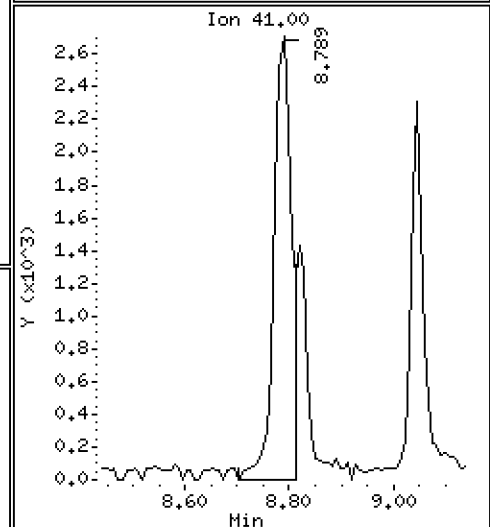
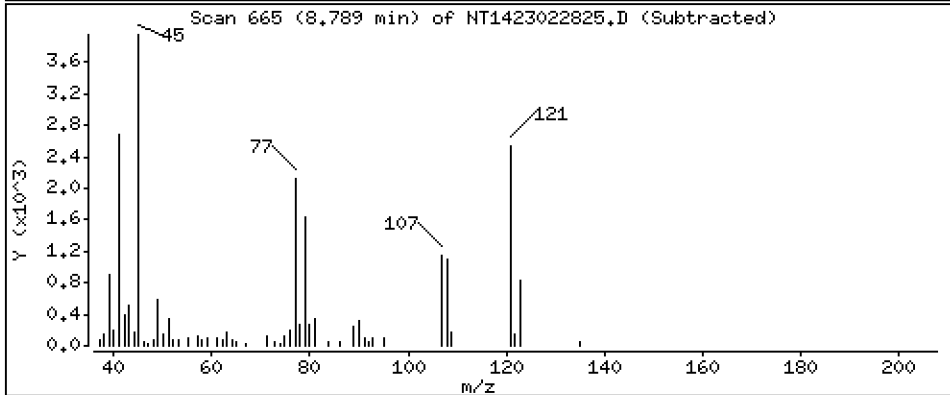
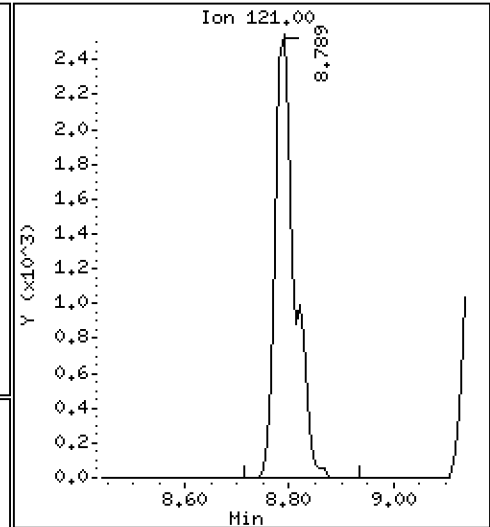
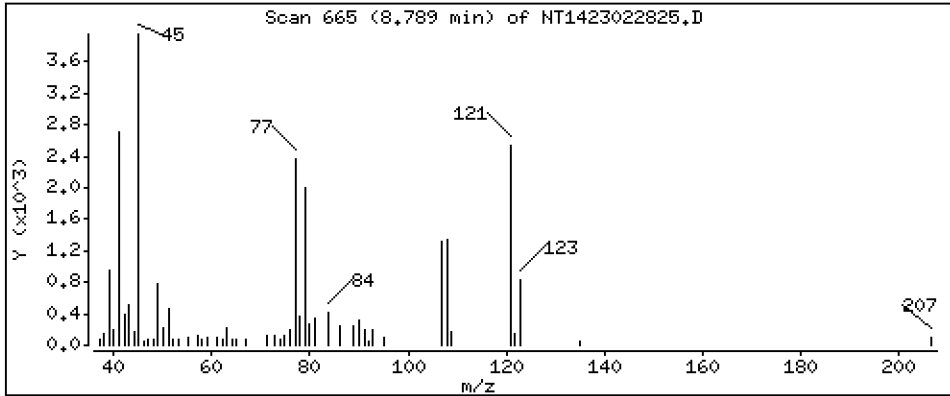
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 0,5218 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

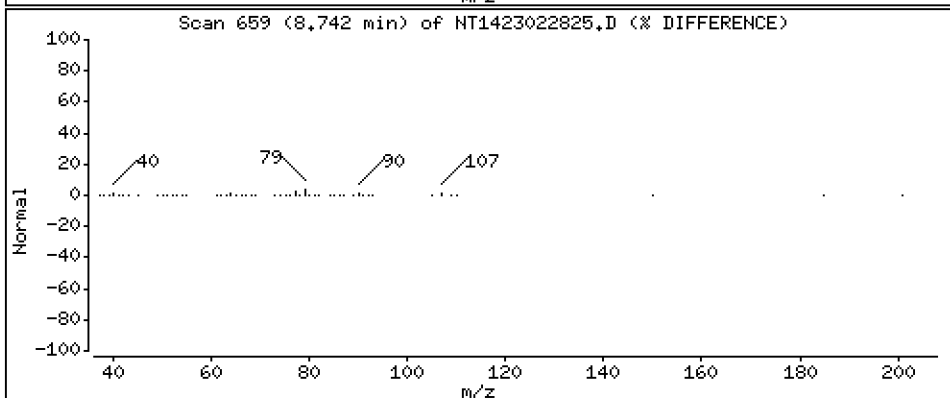
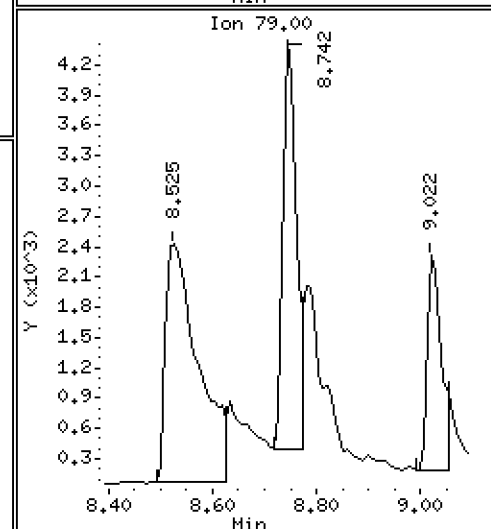
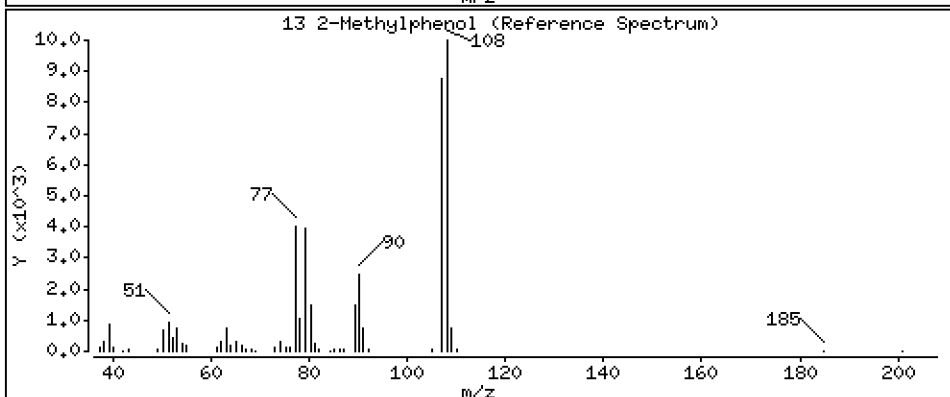
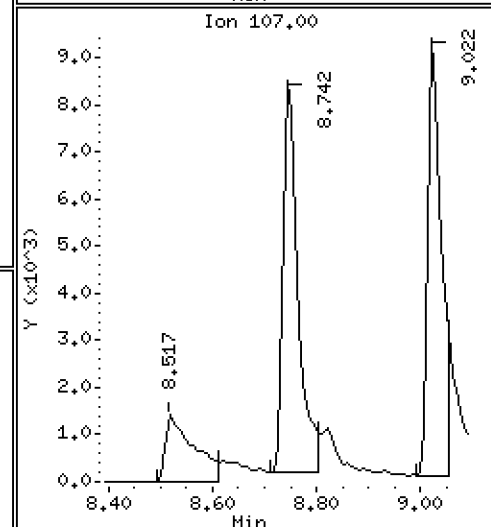
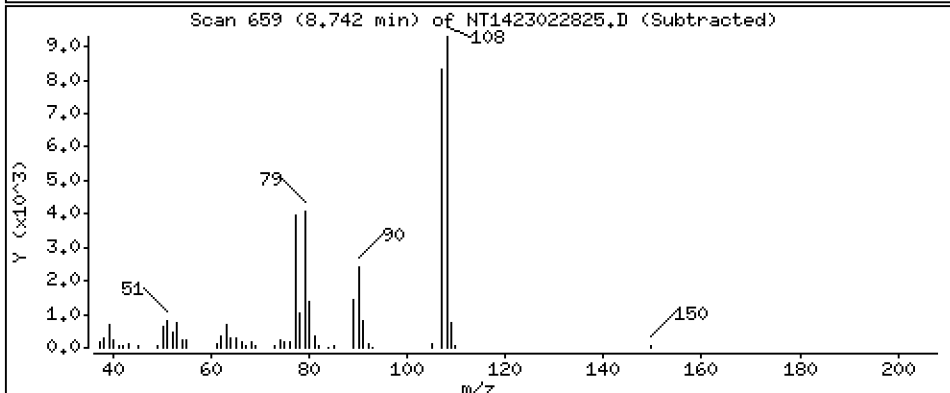
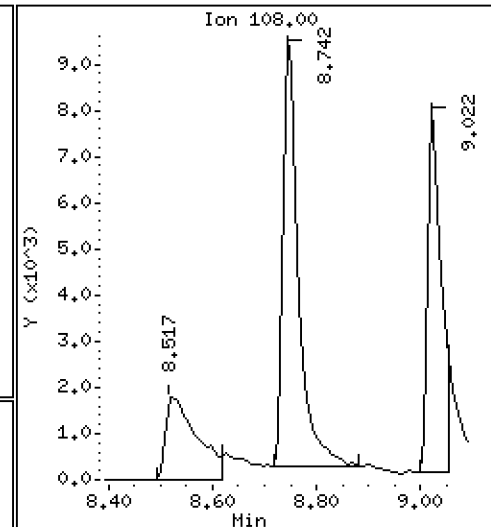
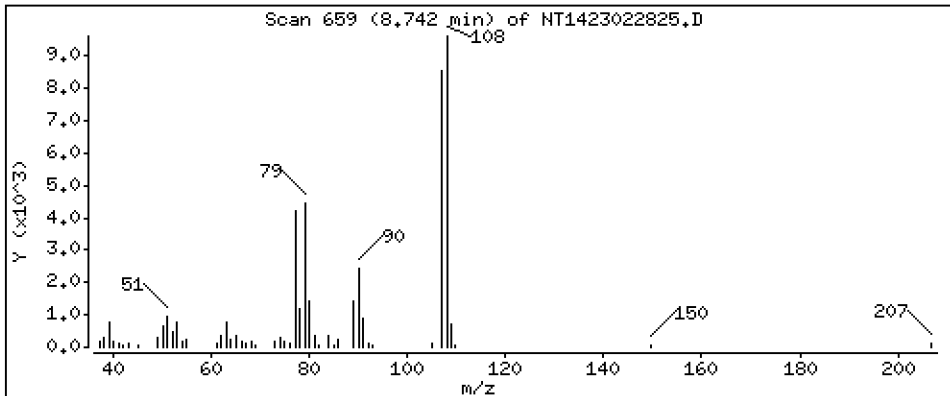
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

13 2-Methylphenol

Concentration: 0,4938 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

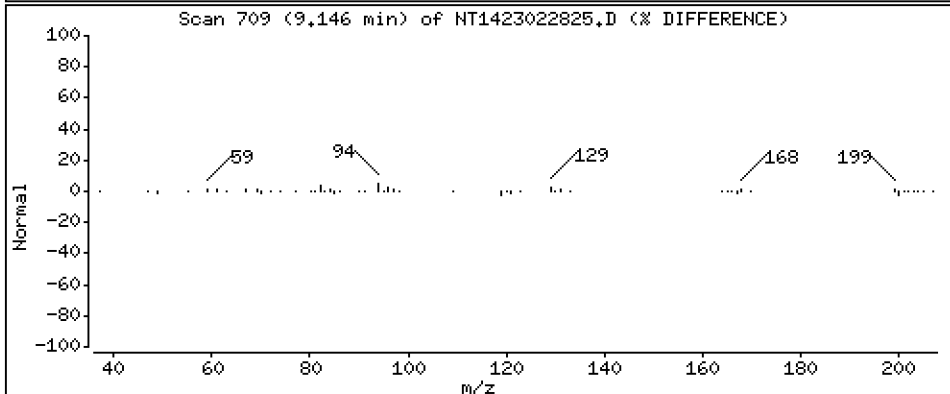
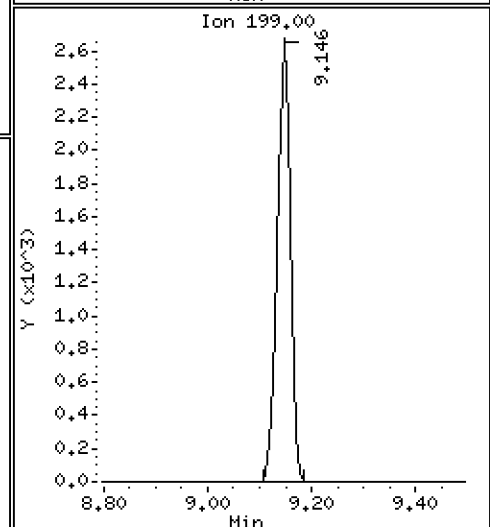
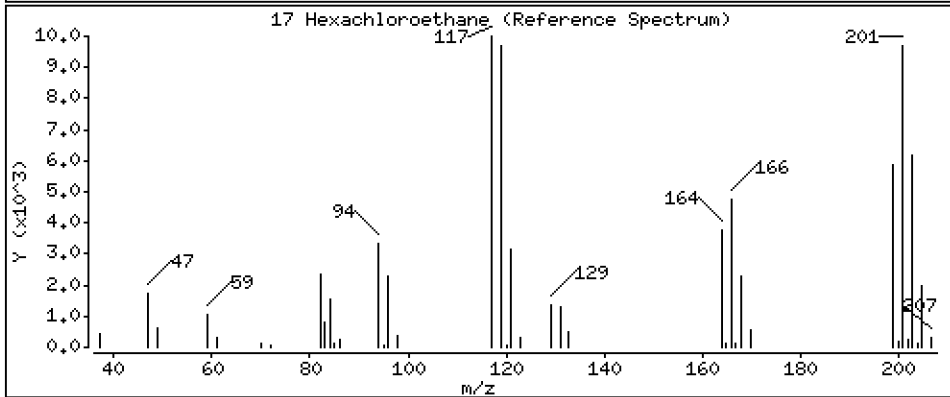
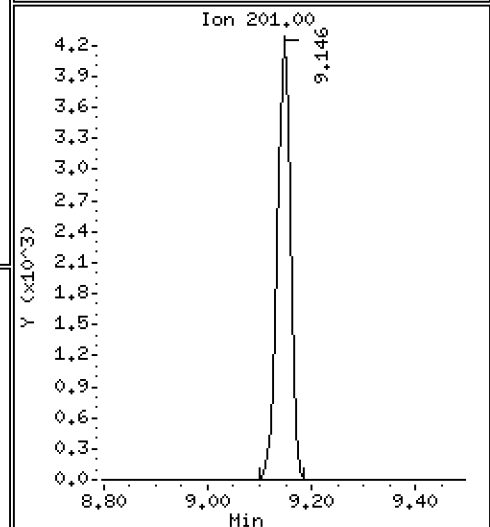
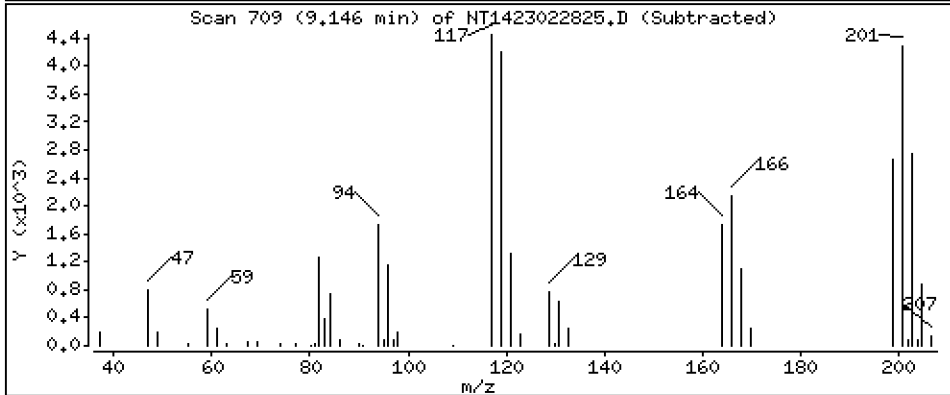
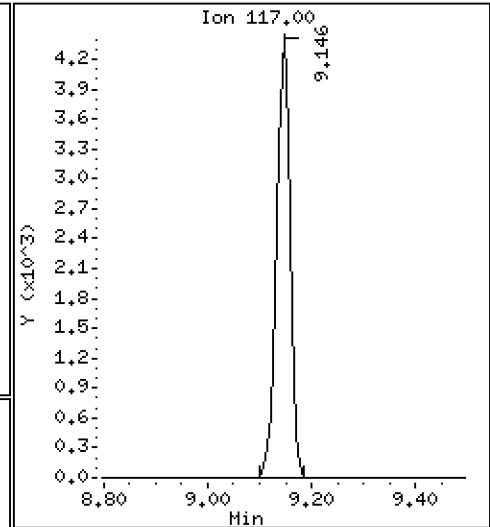
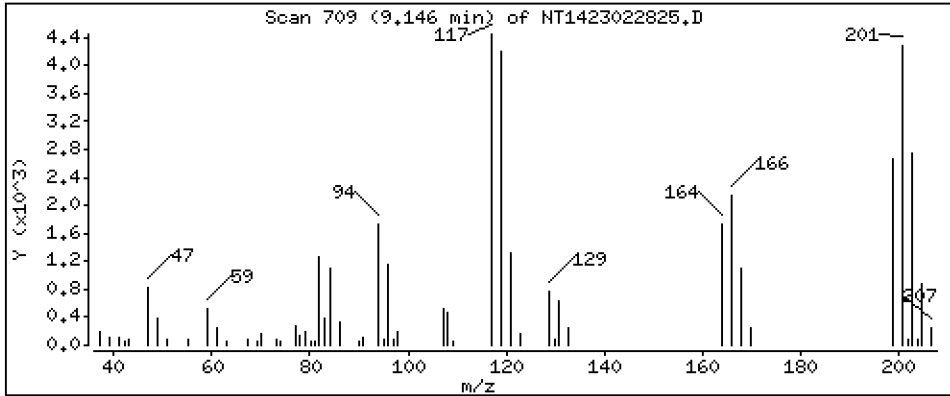
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

17 Hexachloroethane

Concentration: 0,4200 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

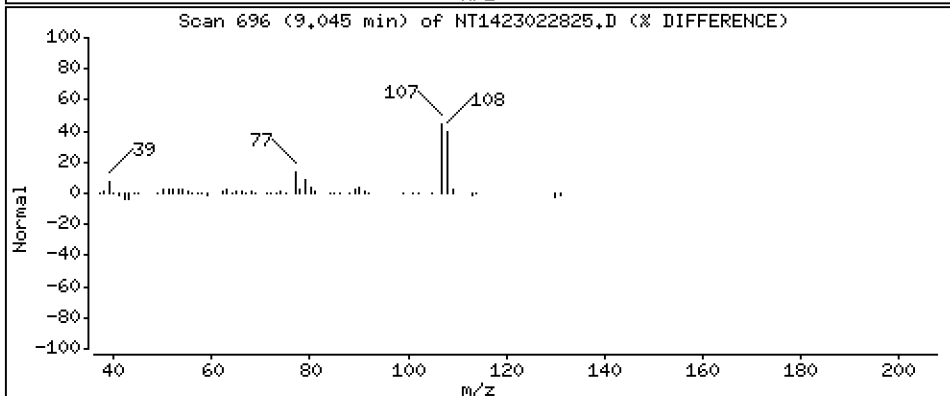
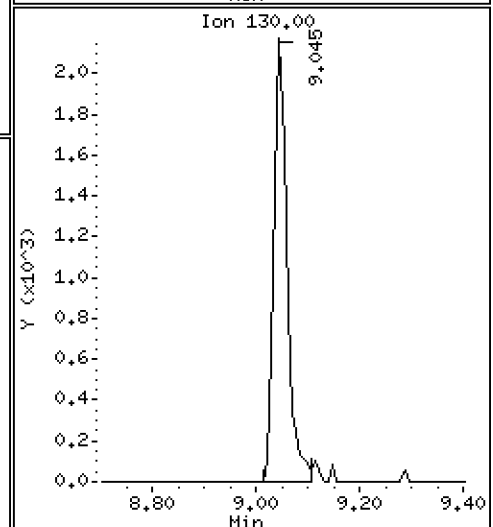
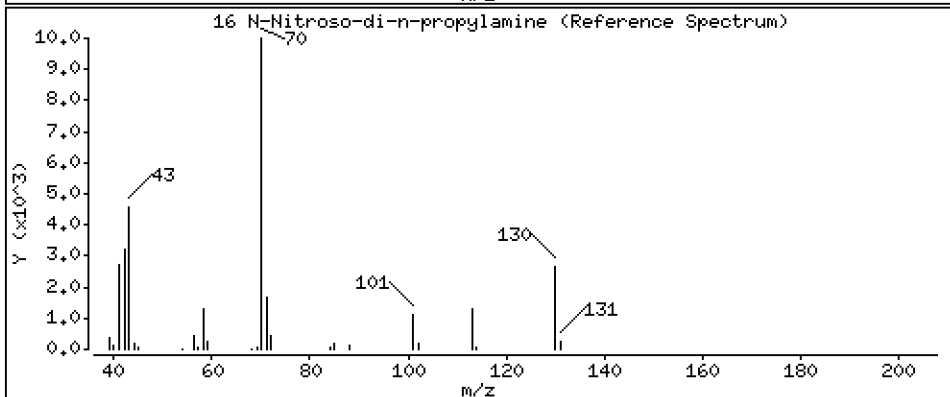
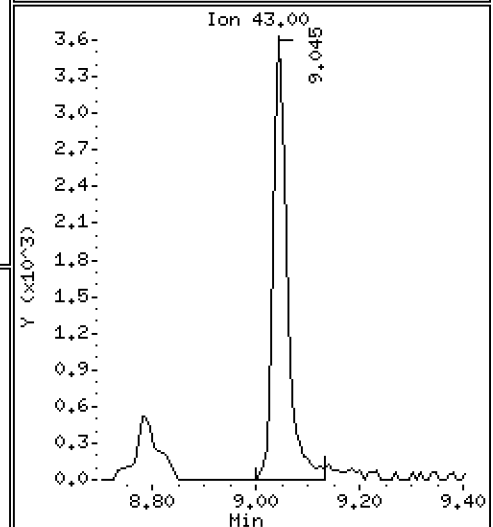
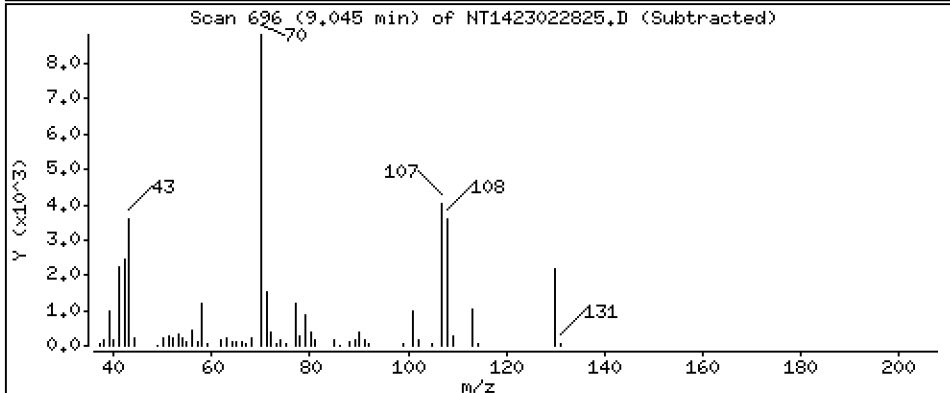
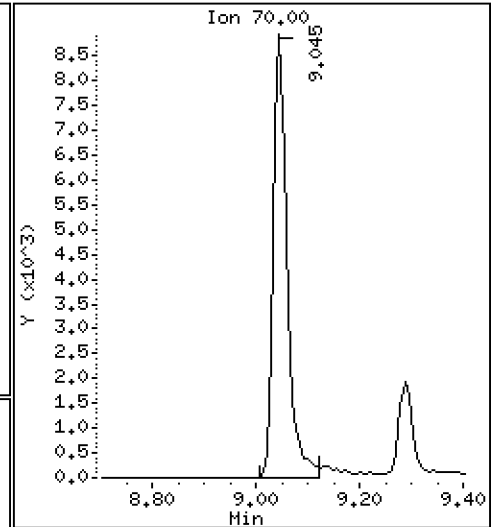
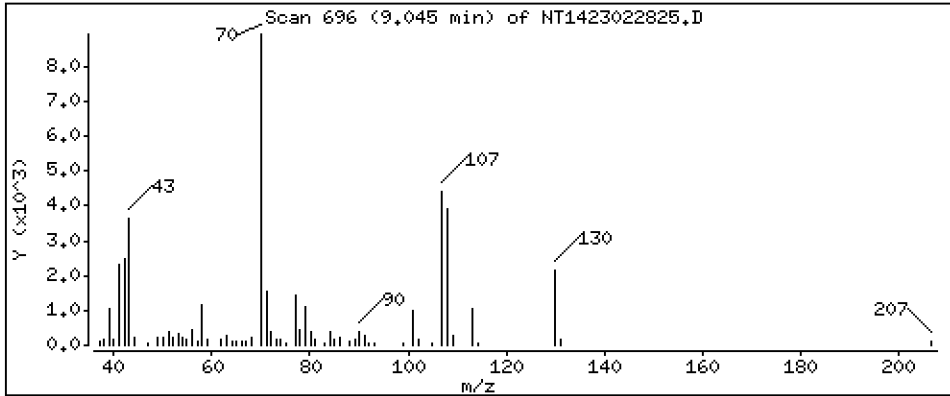
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

16 N-Nitroso-di-n-propylamine

Concentration: 0,5482 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

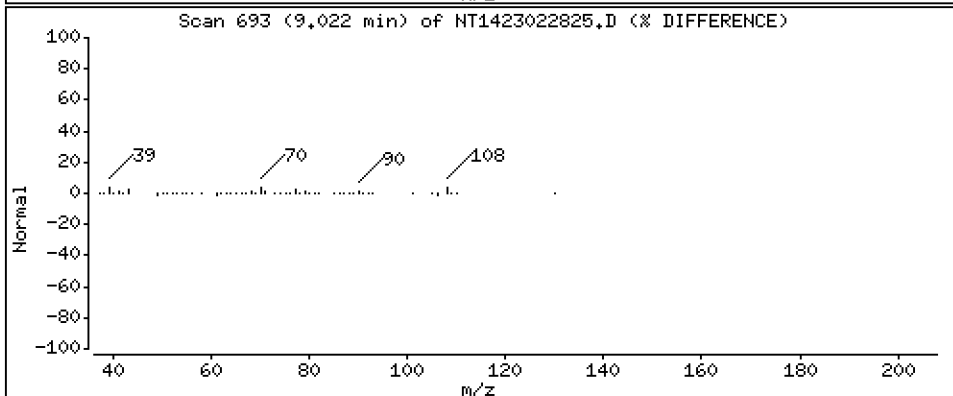
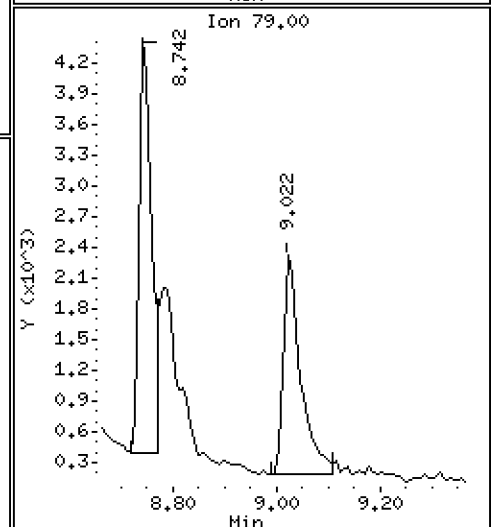
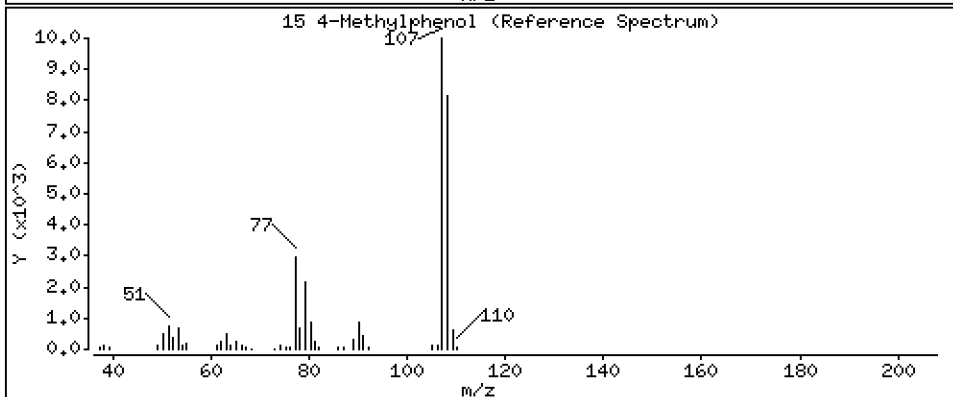
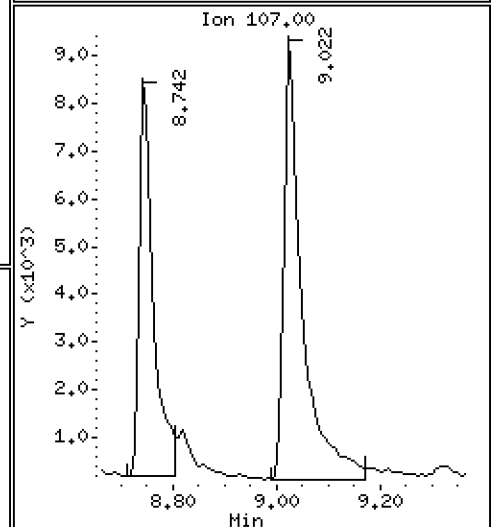
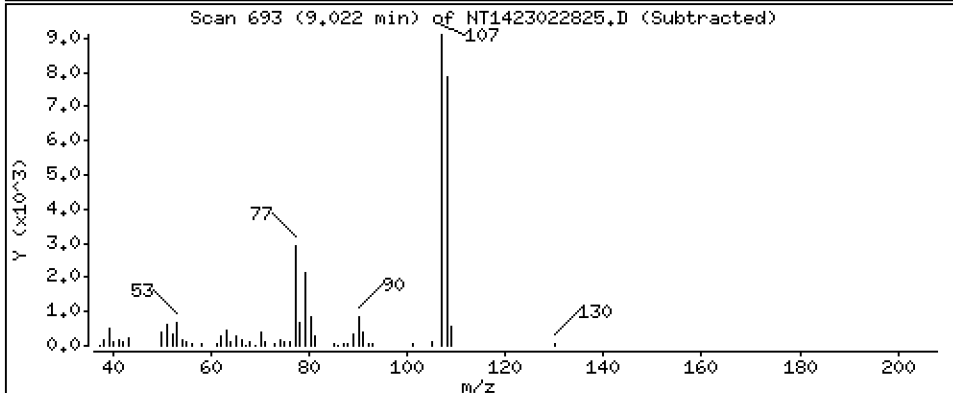
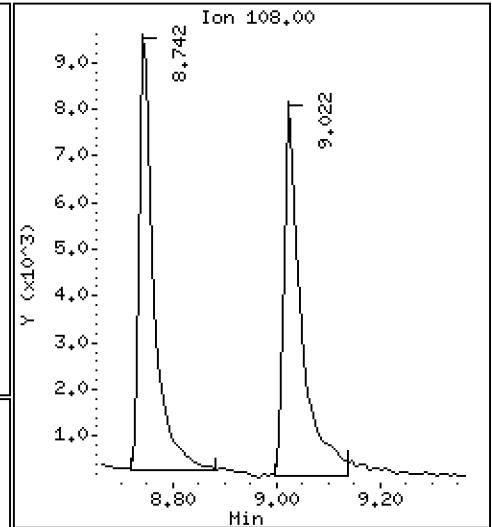
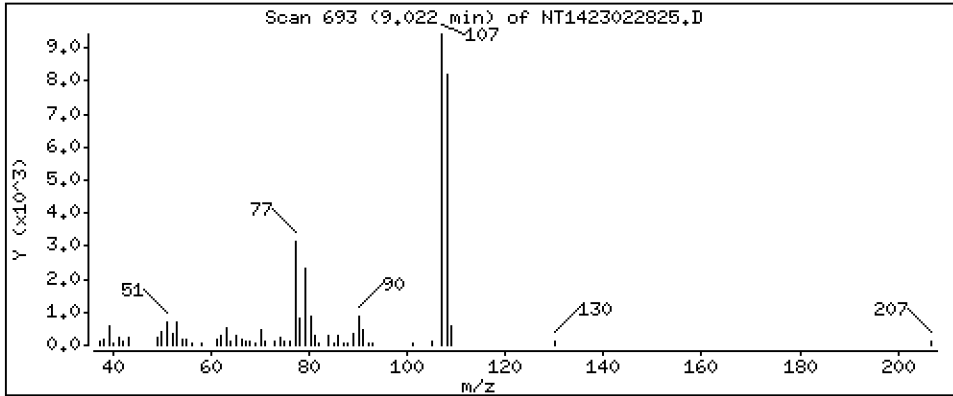
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 0.4219 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

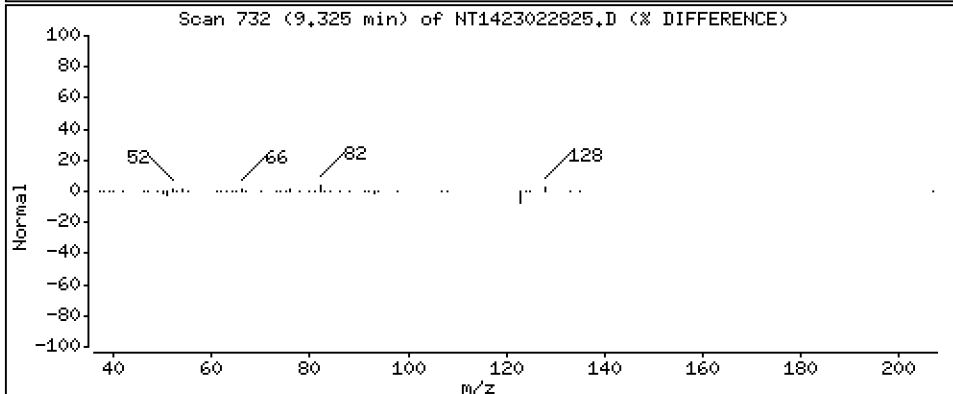
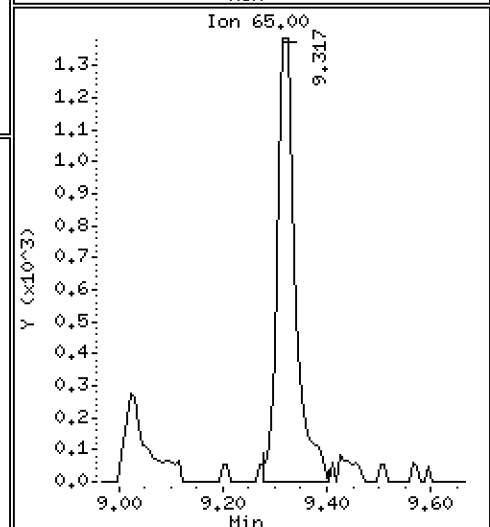
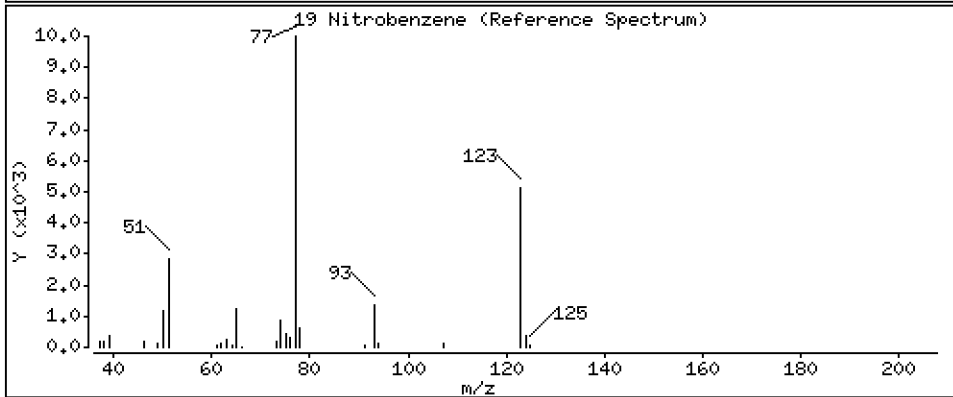
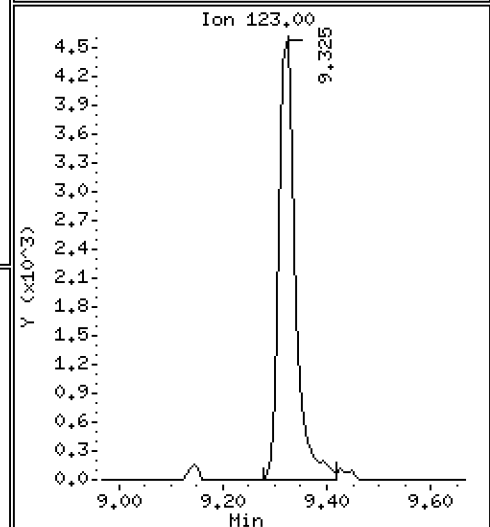
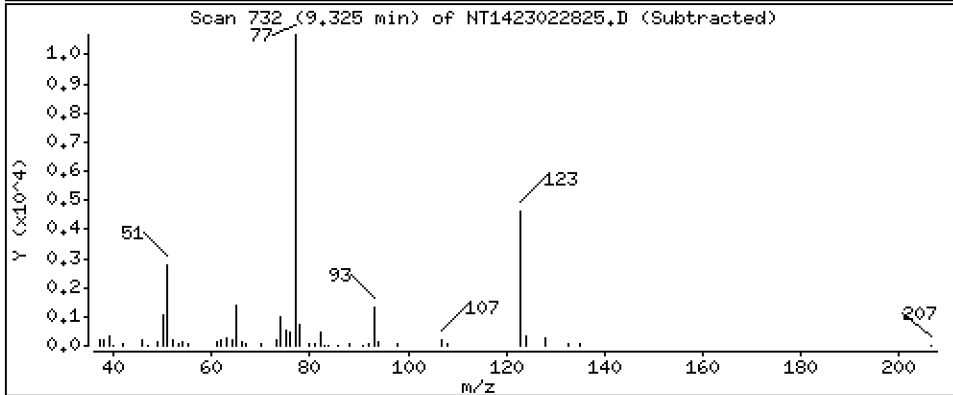
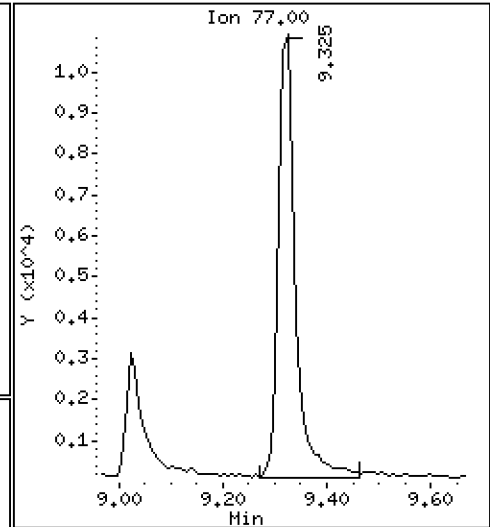
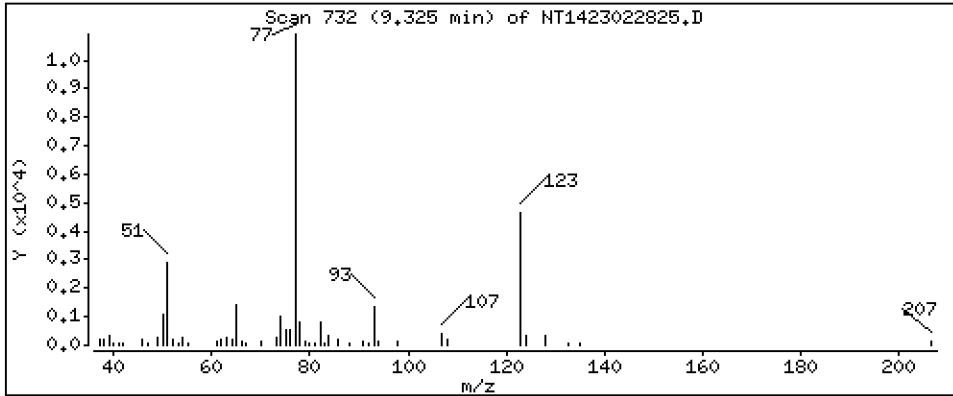
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

Concentration: 0,5504 ug/mL

19 Nitrobenzene



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

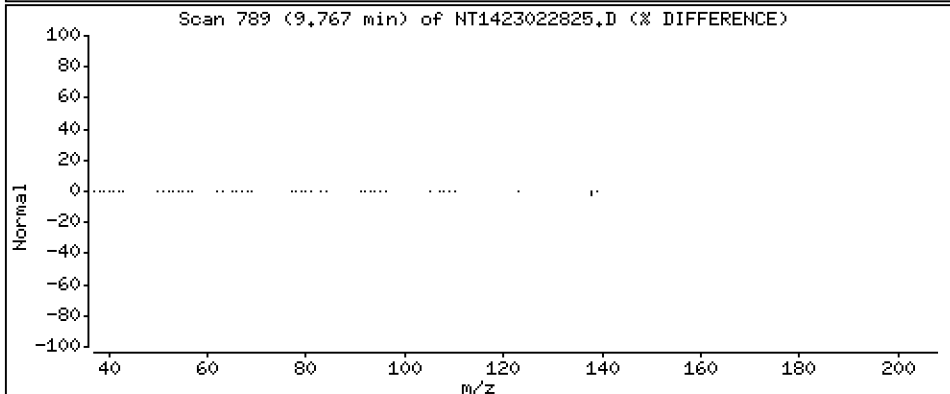
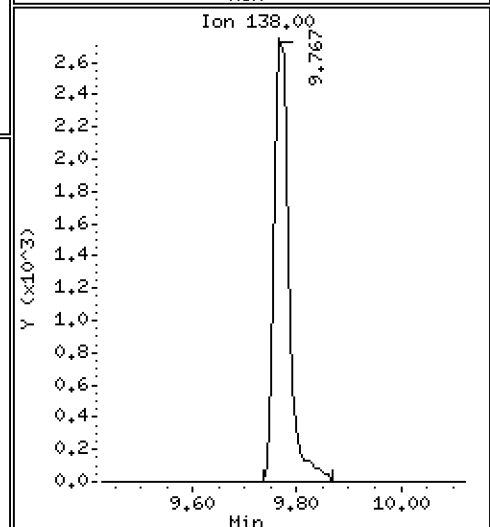
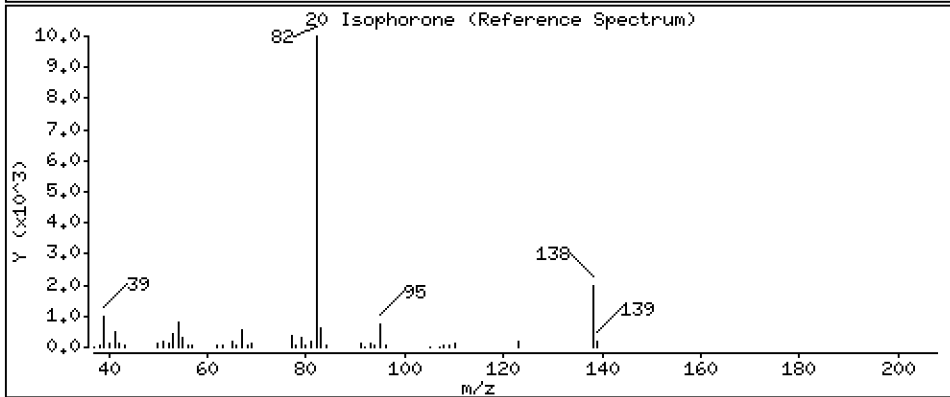
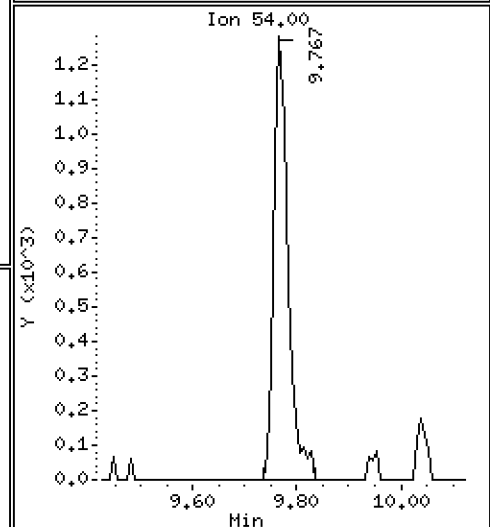
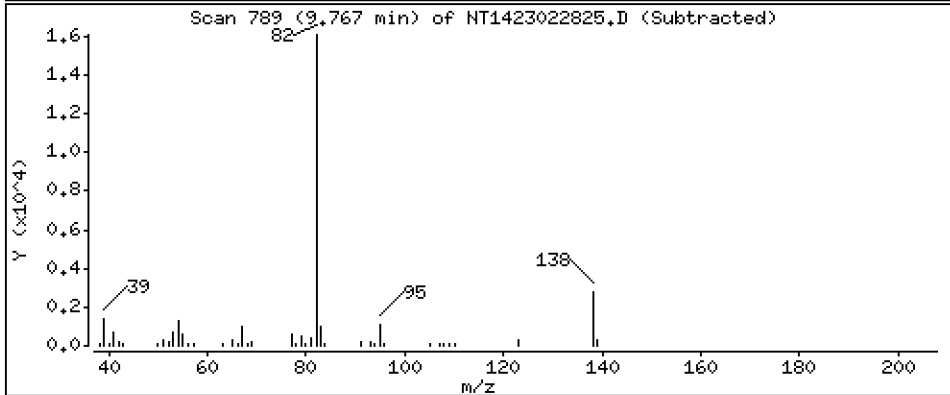
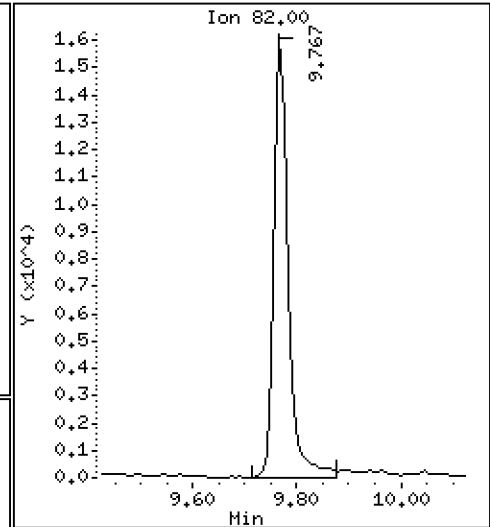
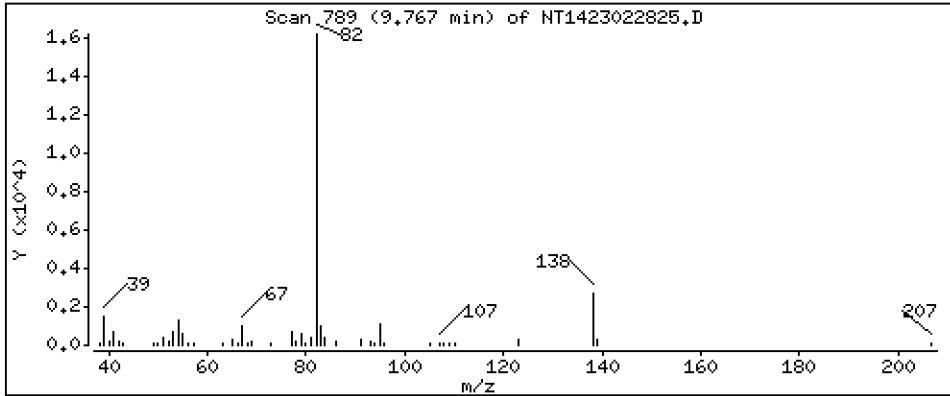
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

20 Isophorone

Concentration: 0.4338 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

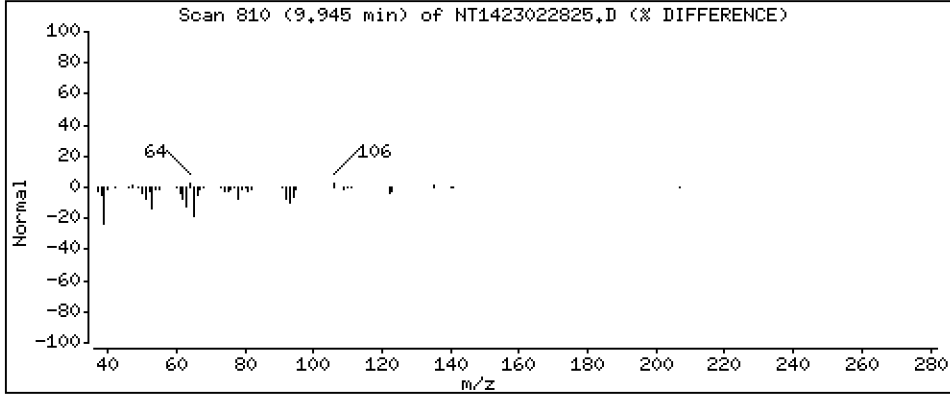
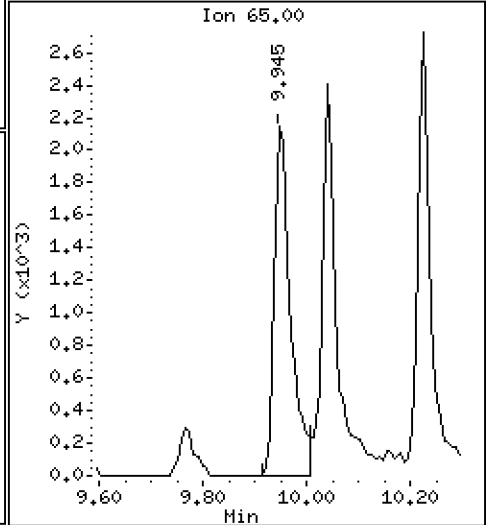
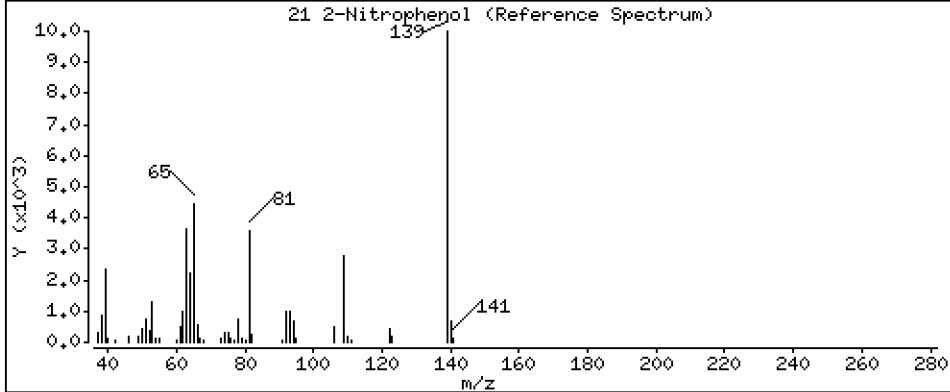
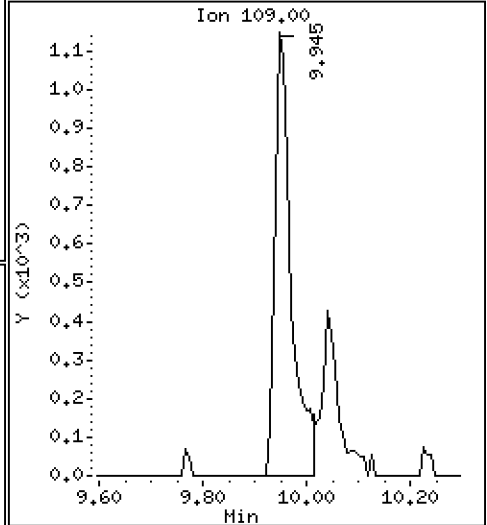
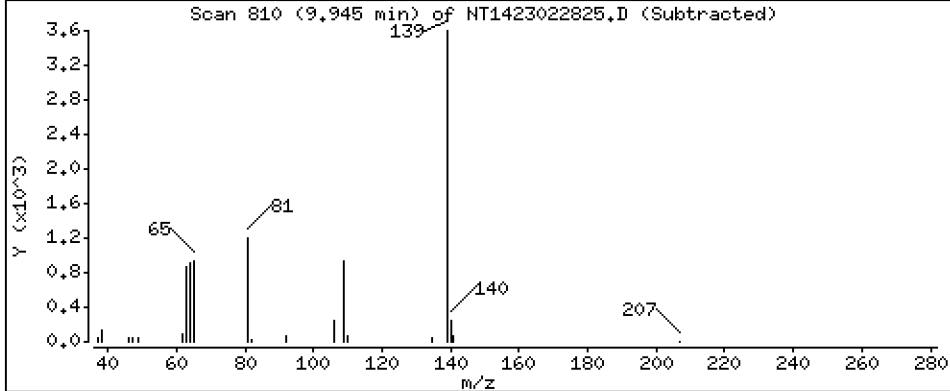
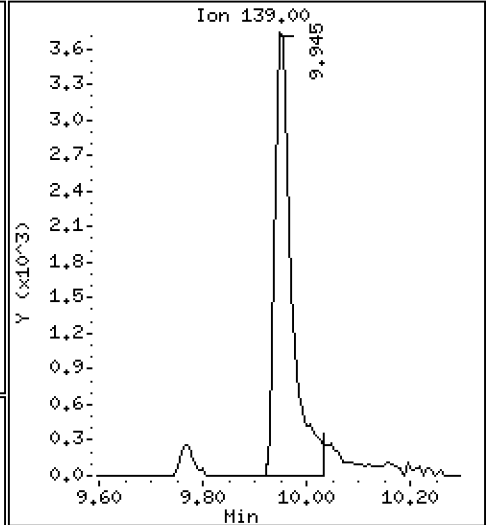
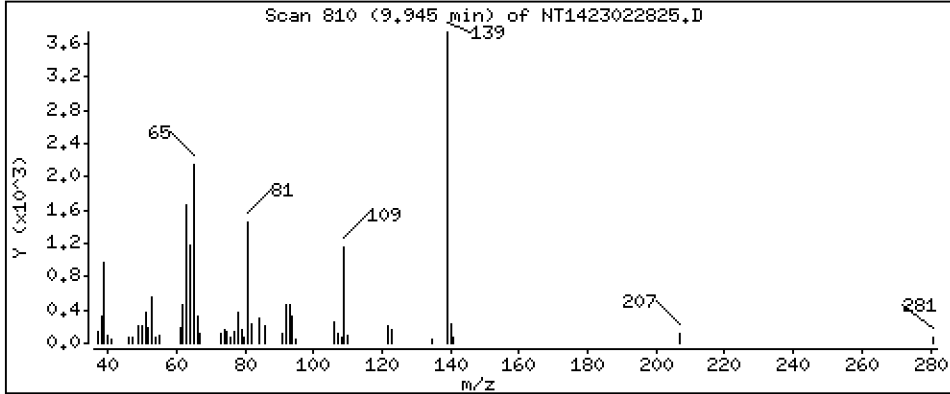
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

21 2-Nitrophenol

Concentration: 0,3734 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

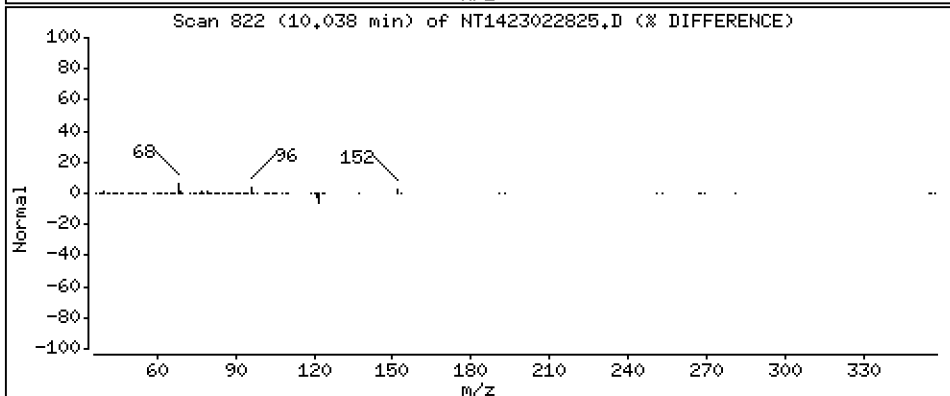
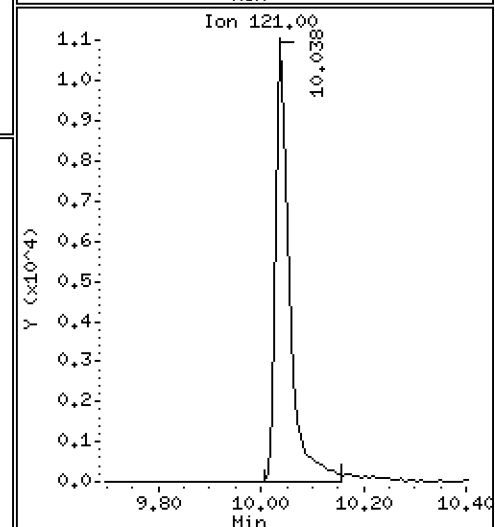
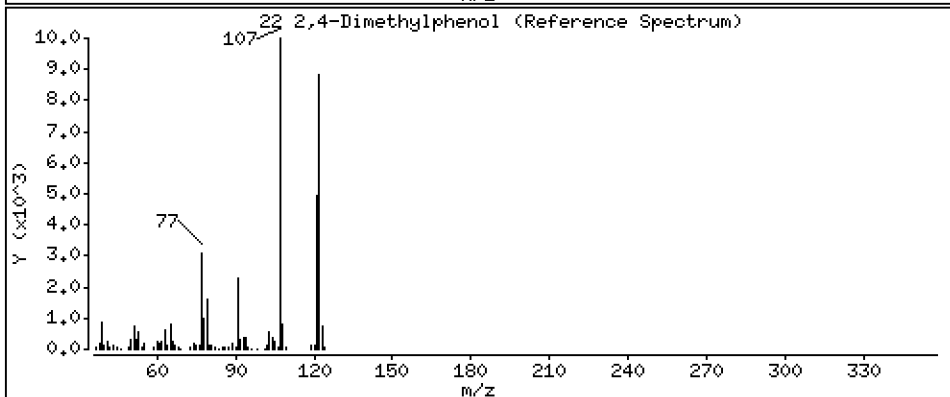
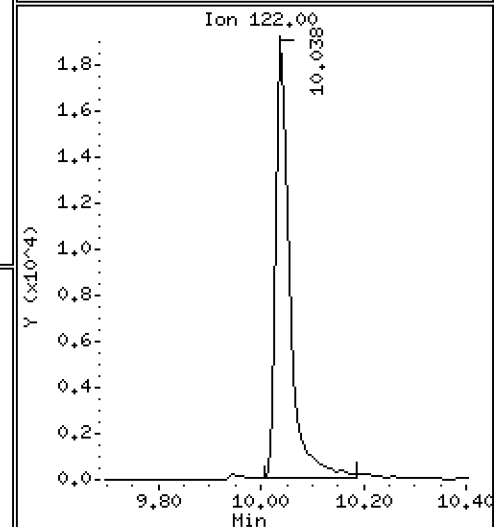
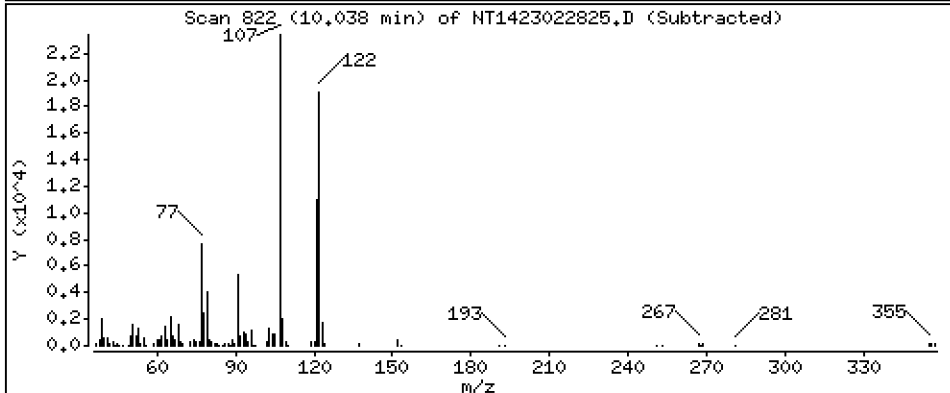
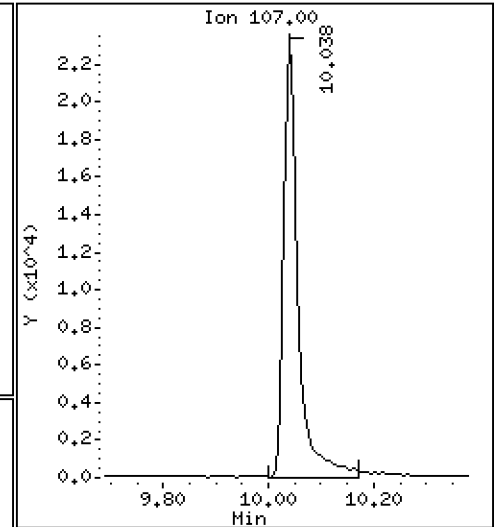
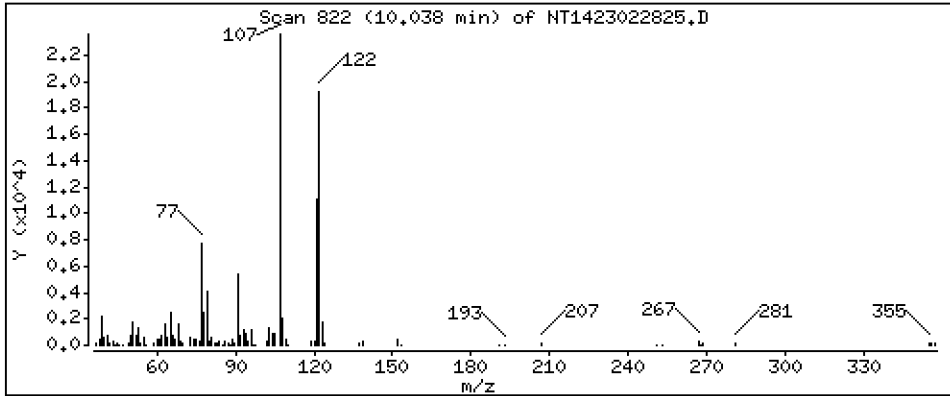
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 1,096 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

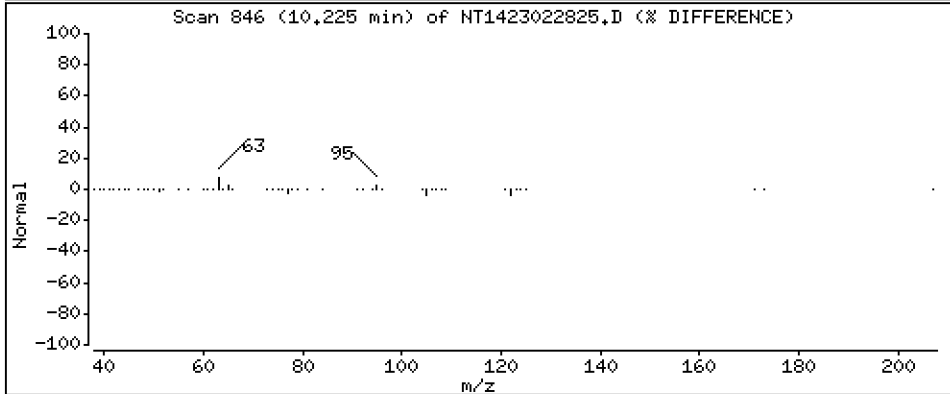
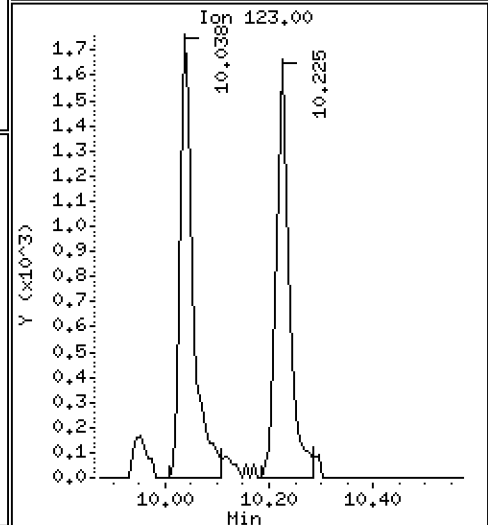
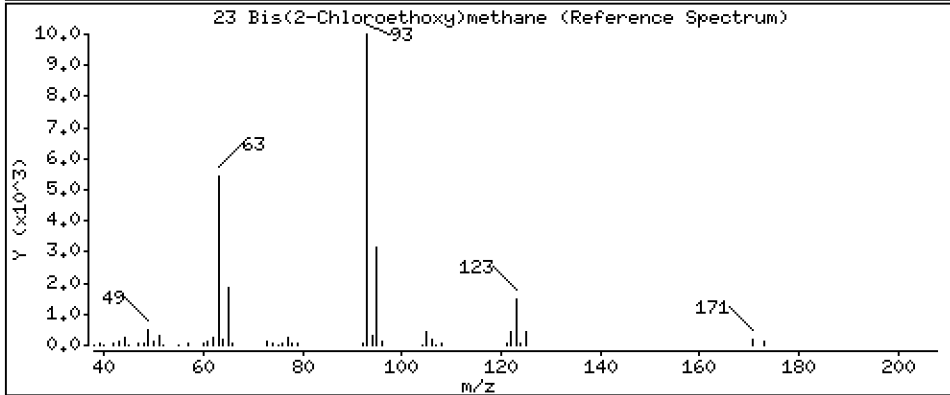
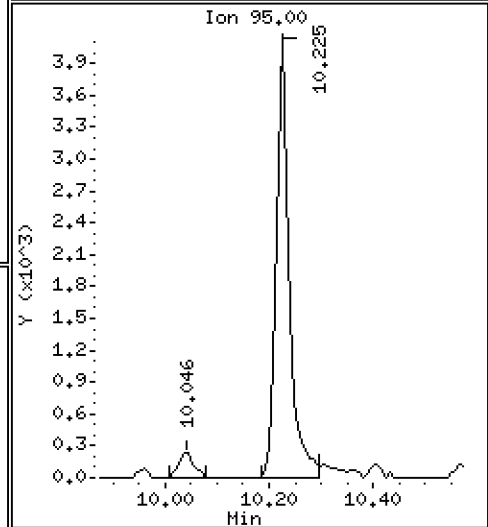
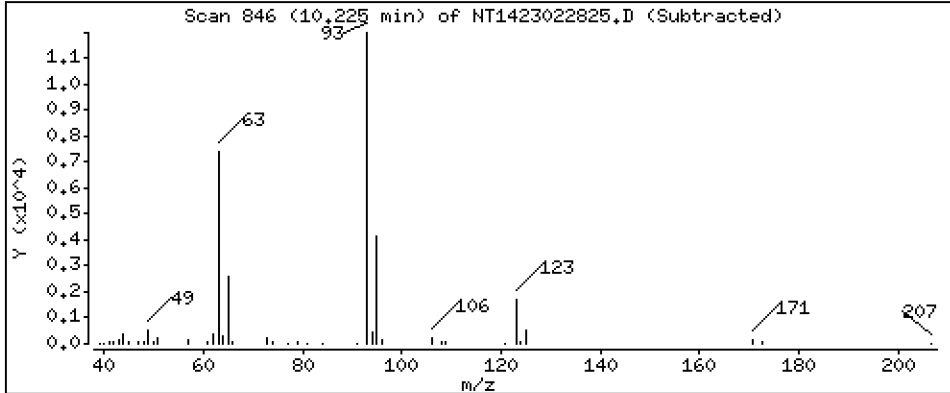
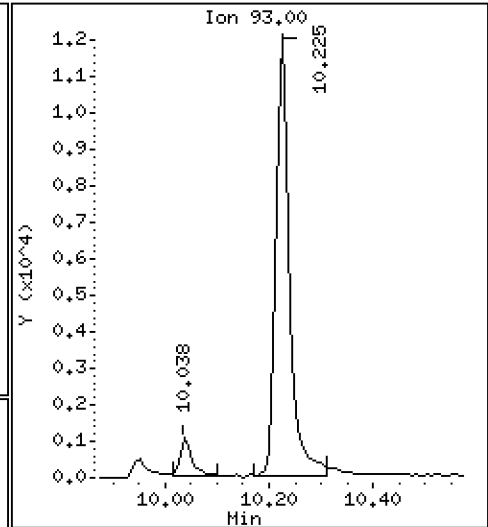
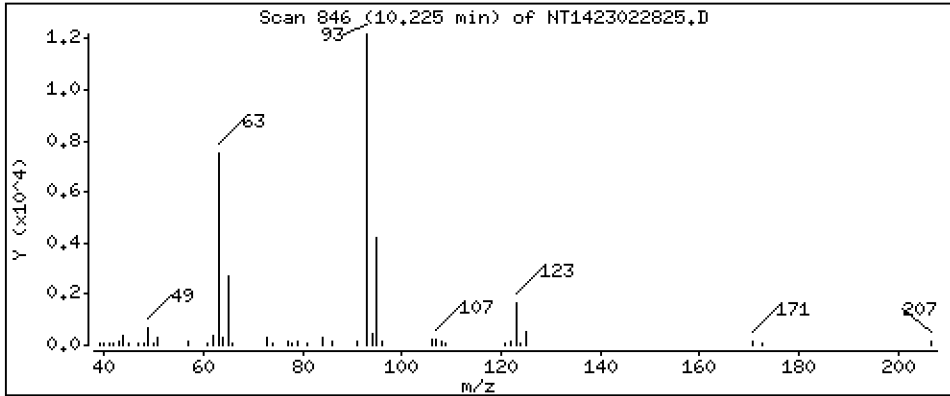
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

23 Bis(2-Chloroethoxy)methane

Concentration: 0.4979 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

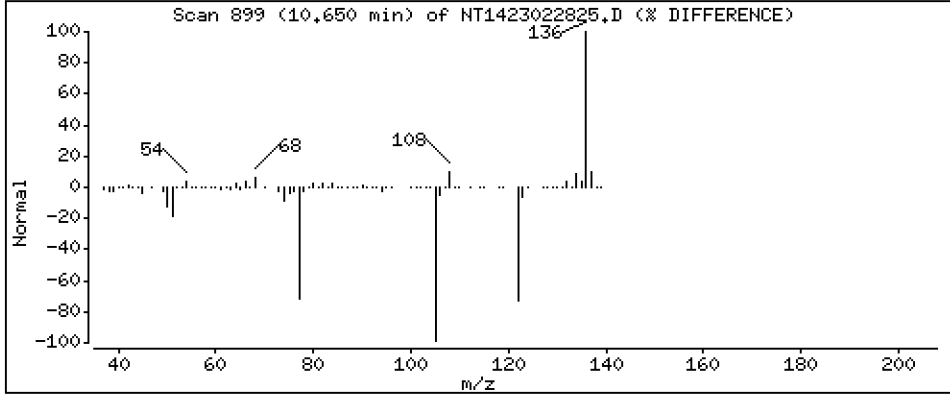
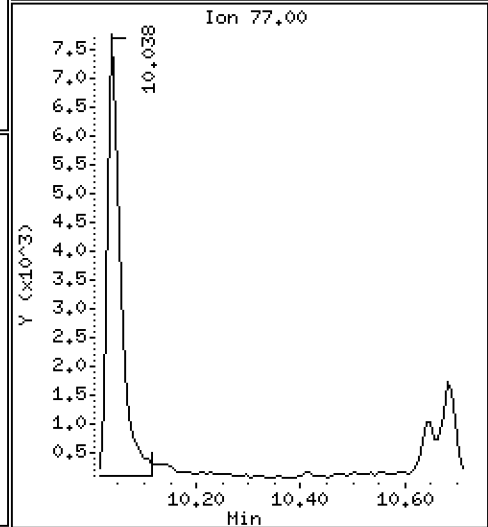
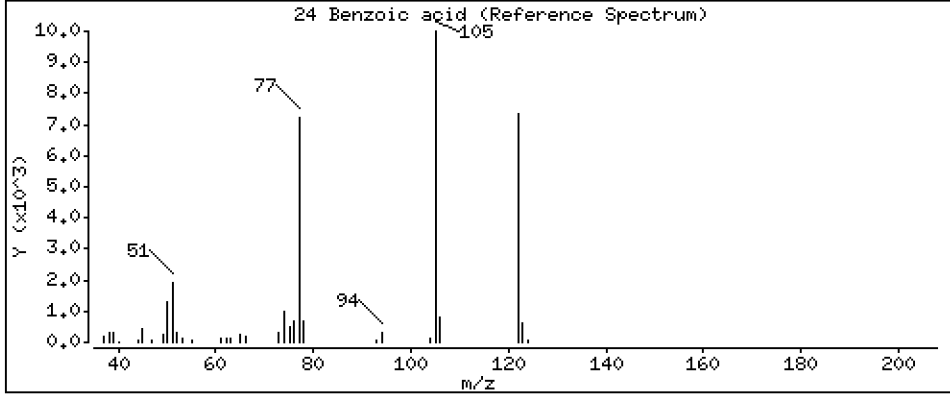
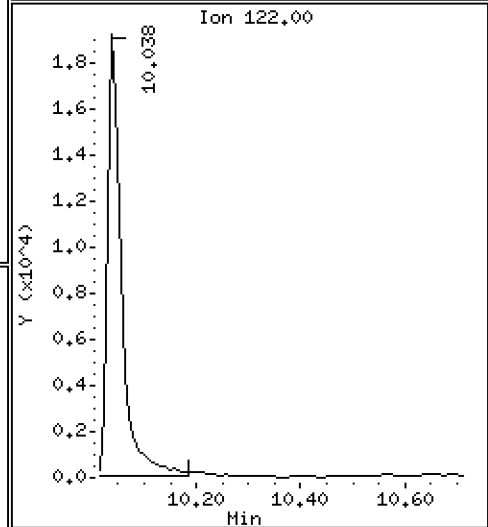
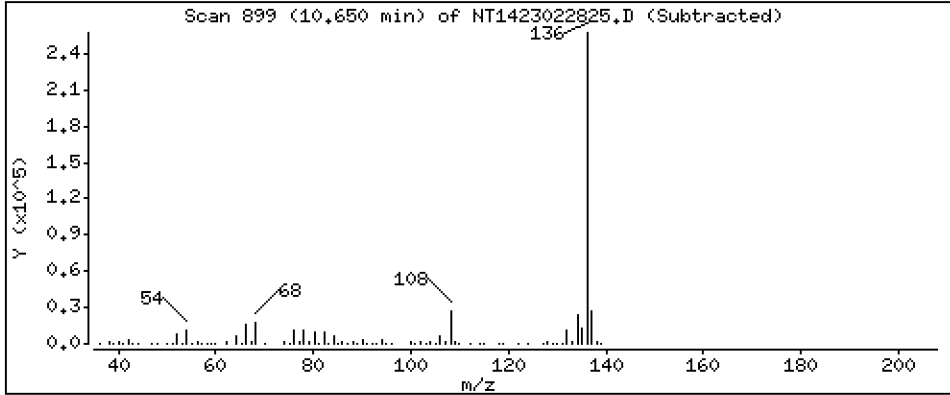
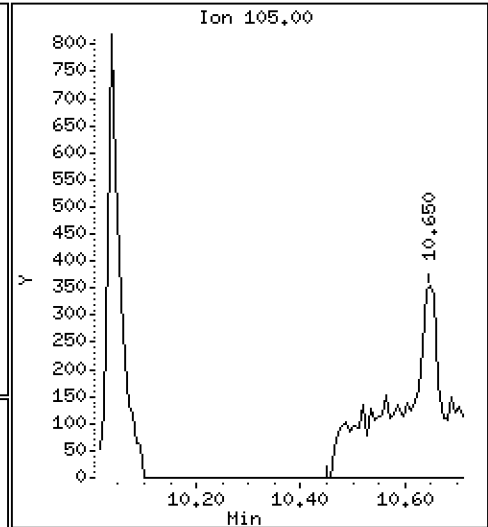
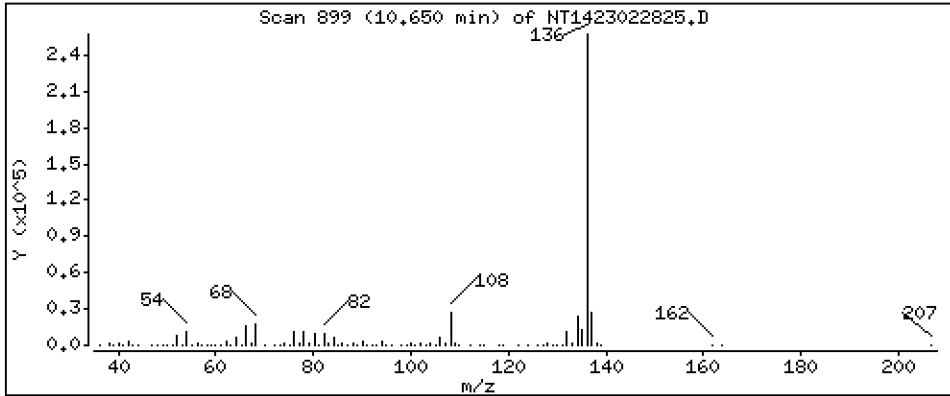
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

24 Benzoic acid

Concentration: 0,5672 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

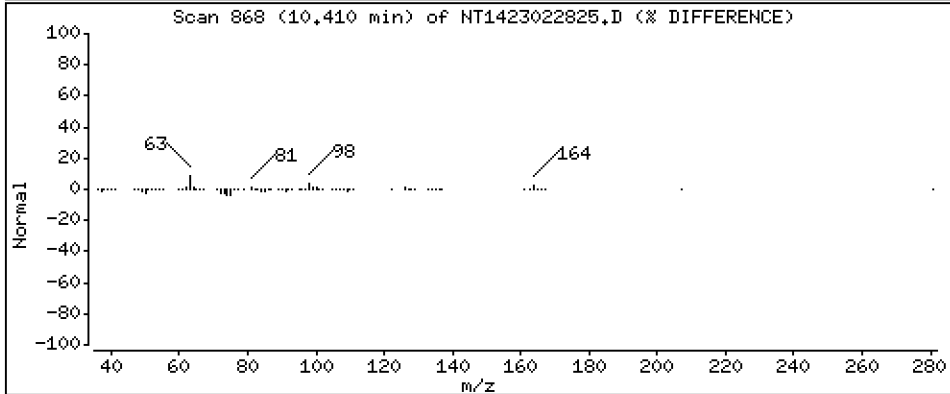
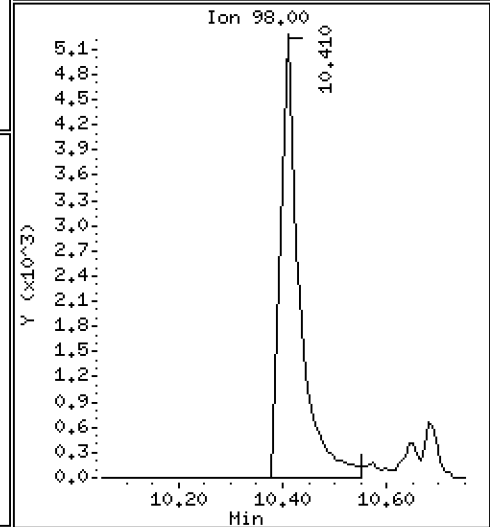
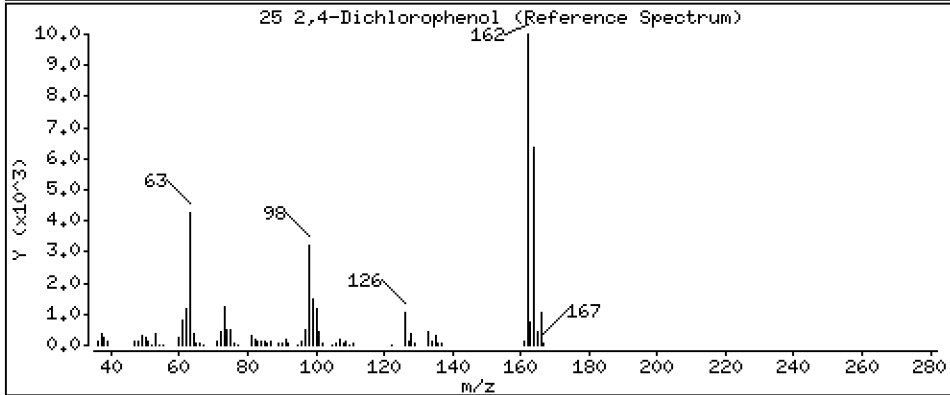
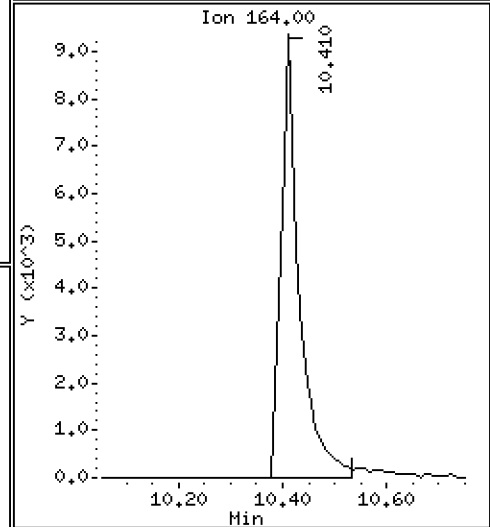
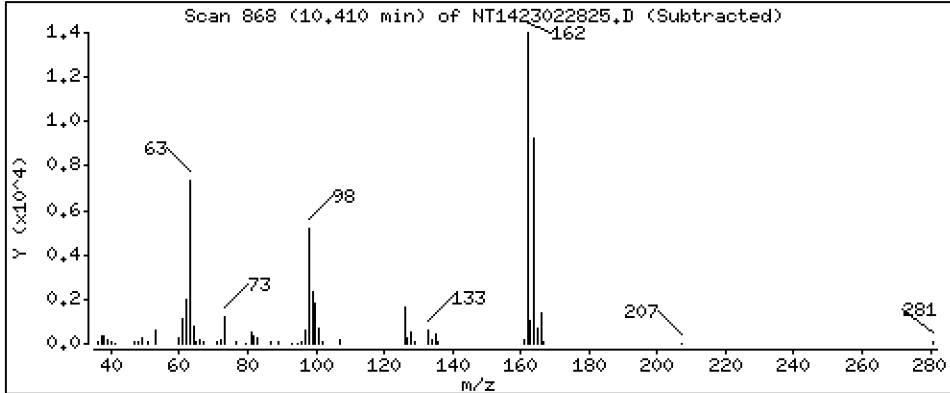
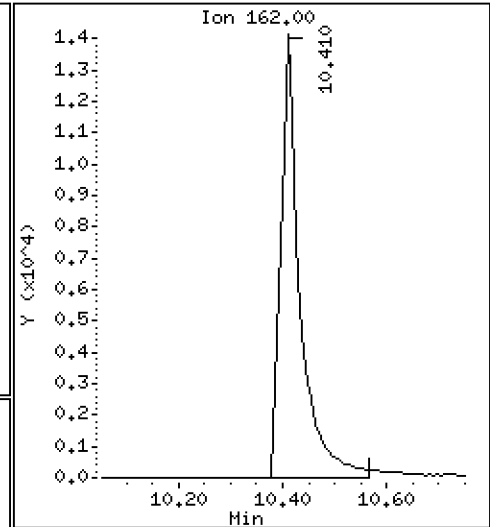
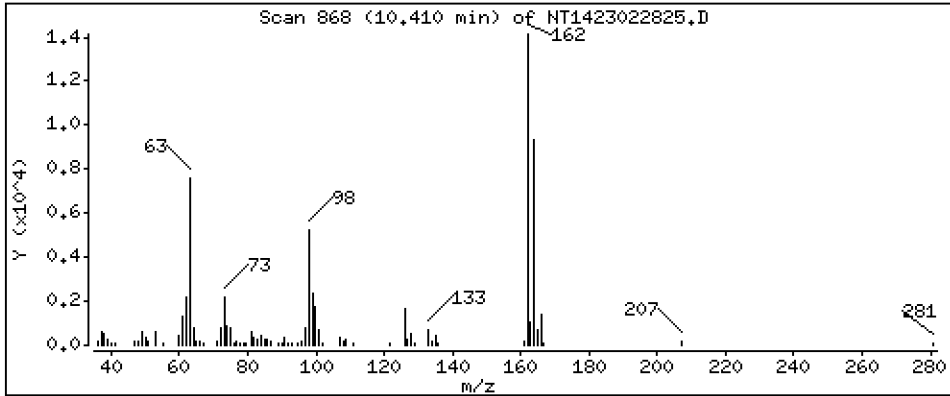
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 0,8589 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

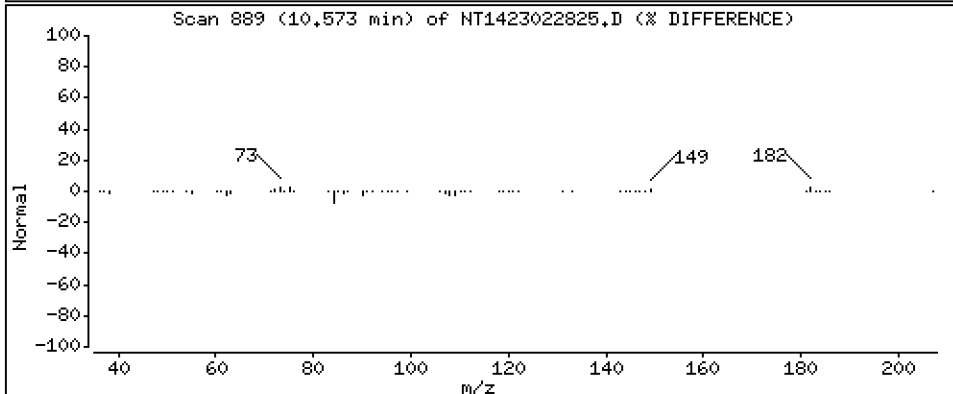
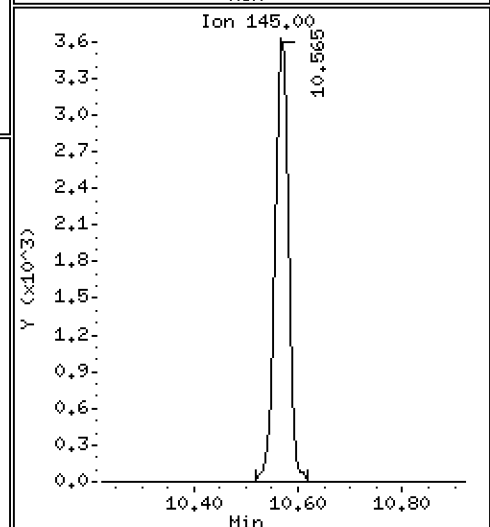
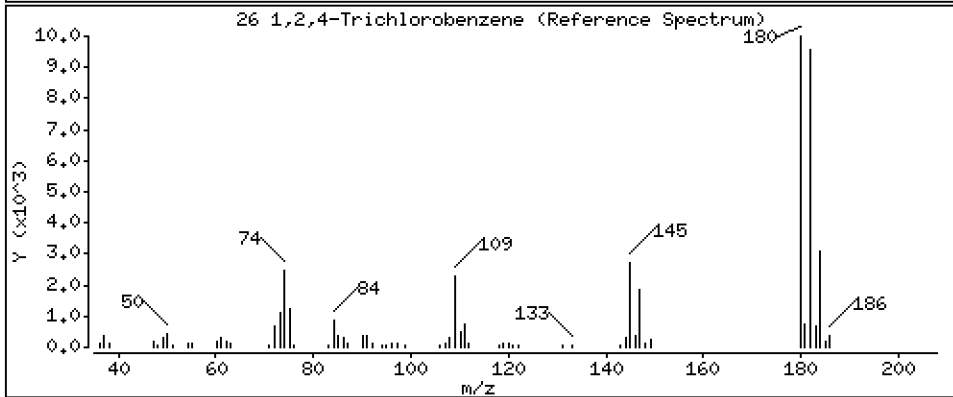
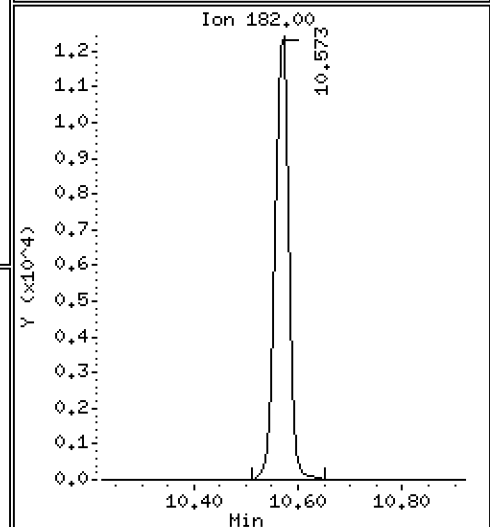
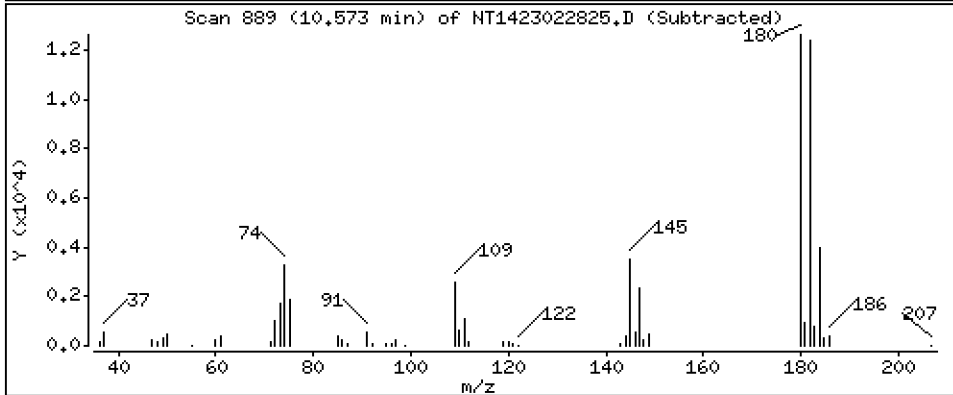
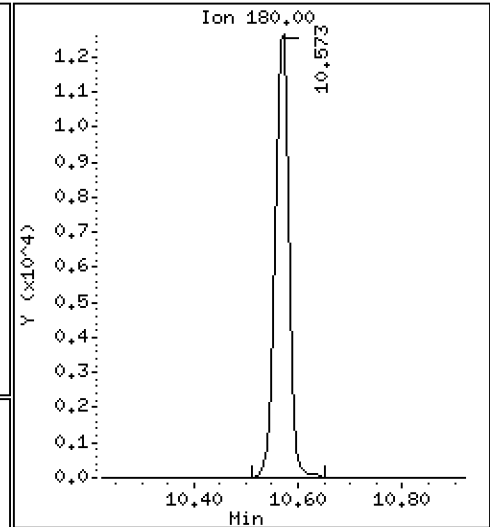
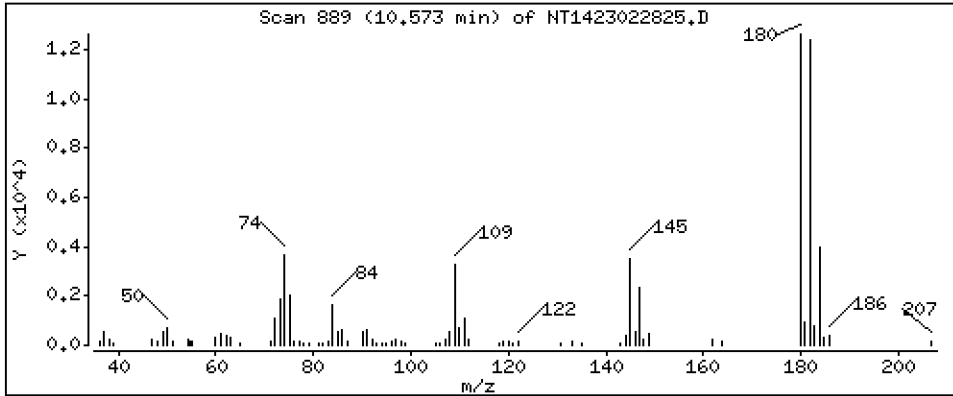
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 0,5059 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

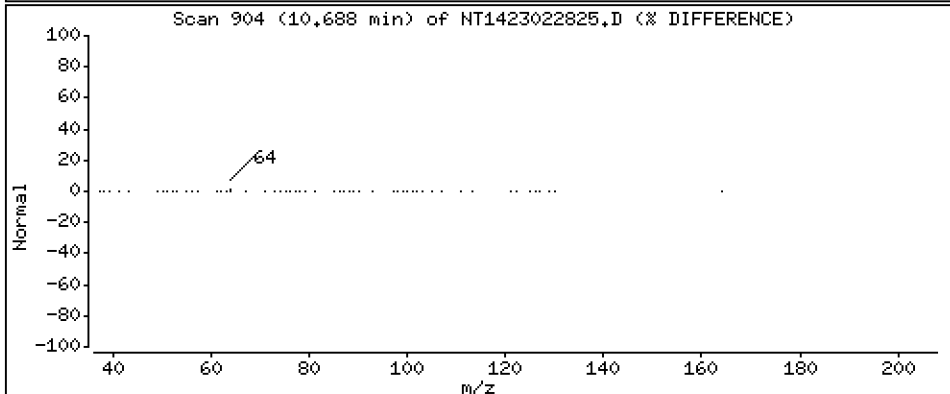
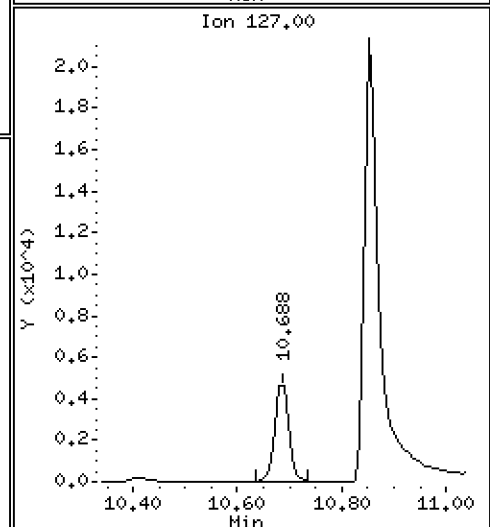
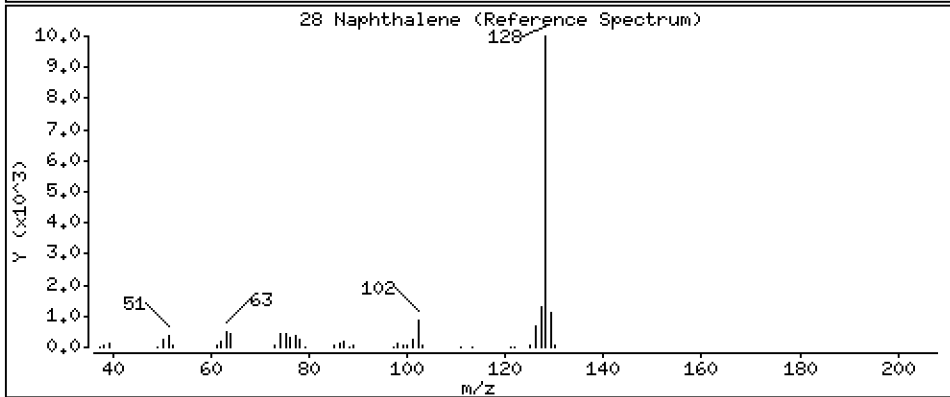
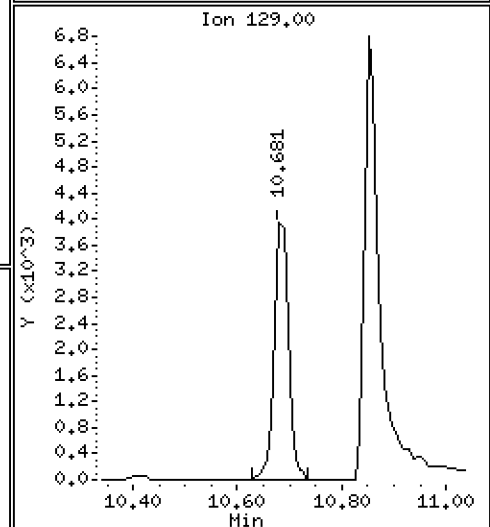
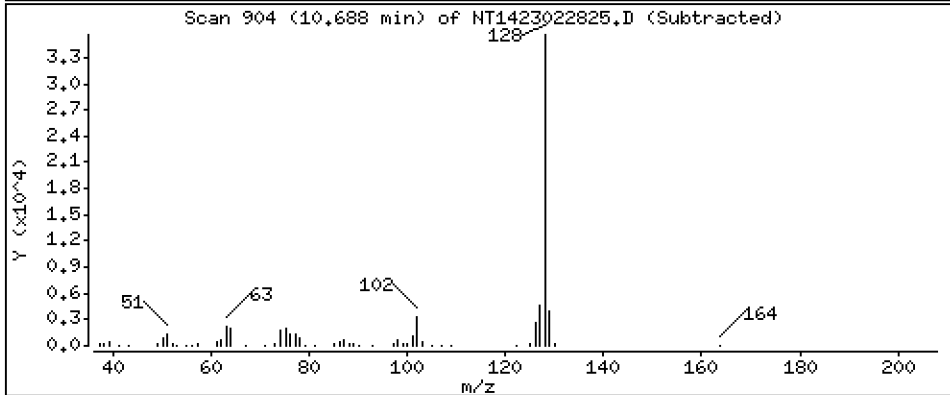
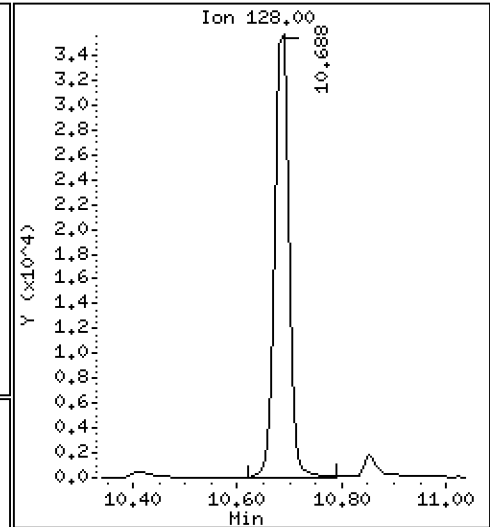
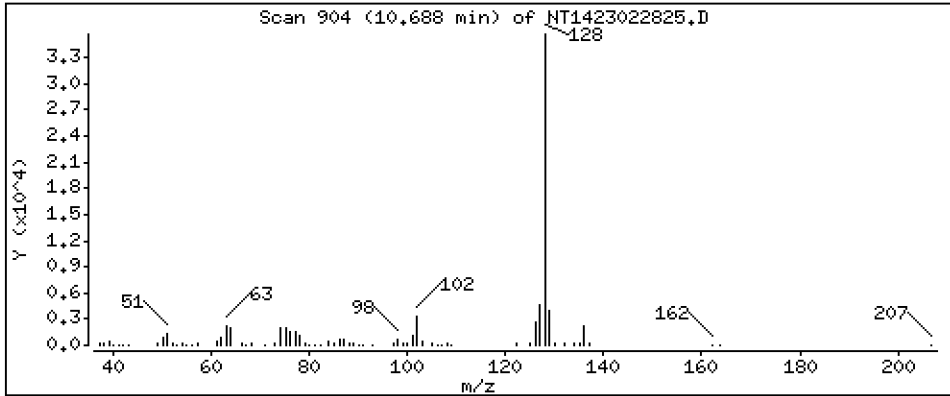
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 0,5298 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

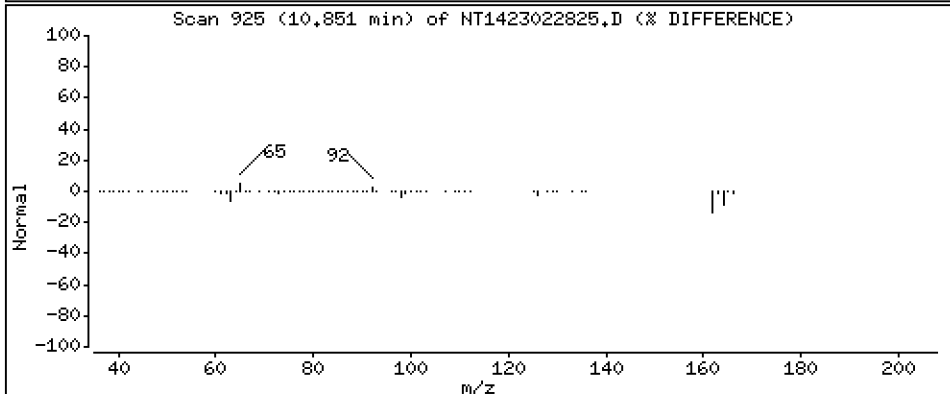
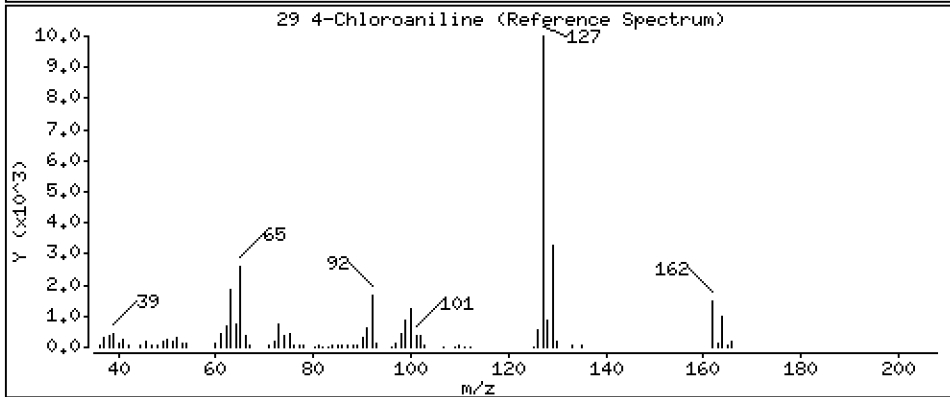
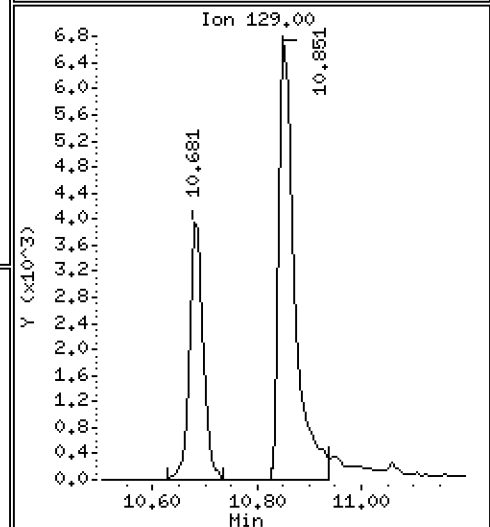
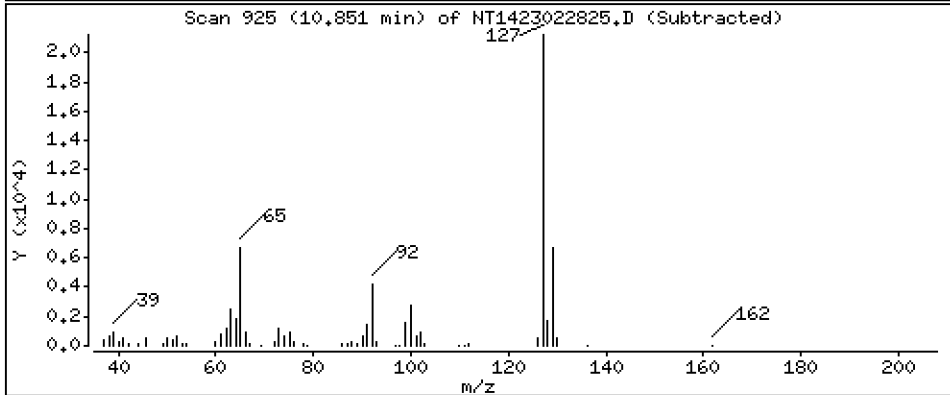
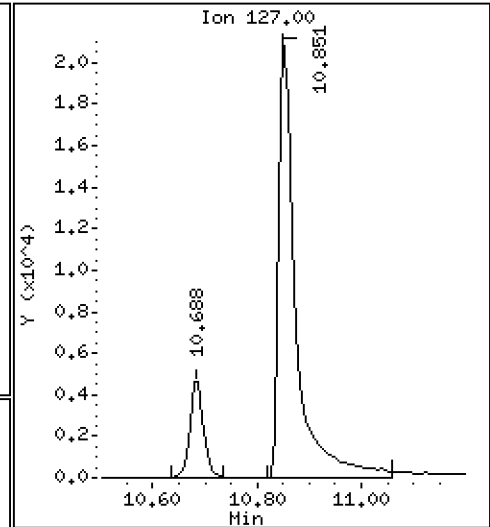
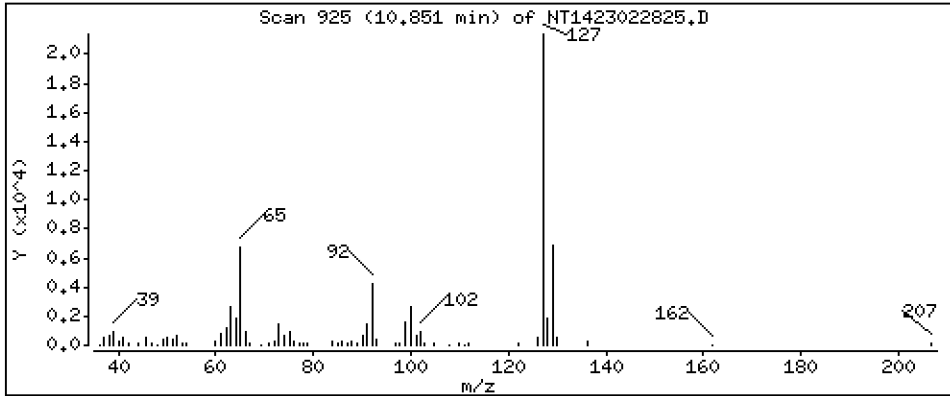
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

29 4-Chloroaniline

Concentration: 0,9465 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

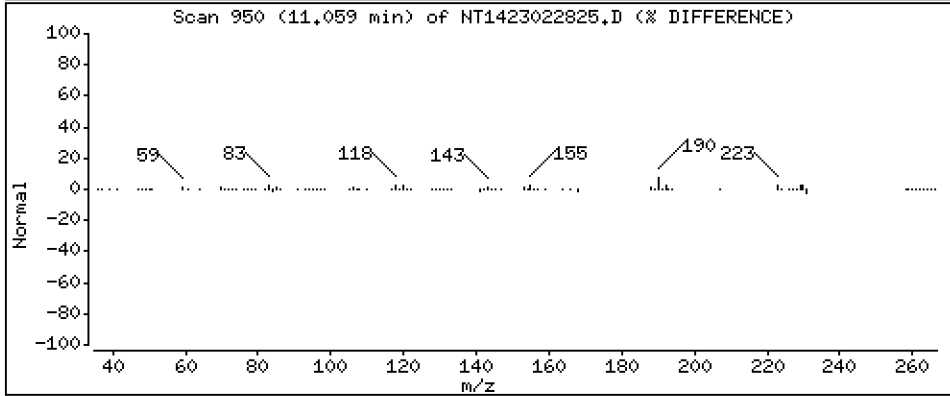
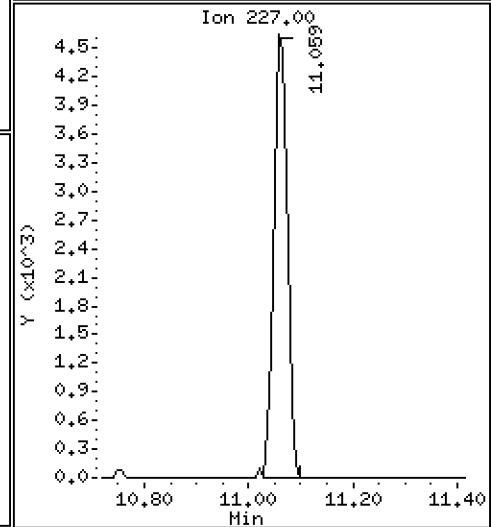
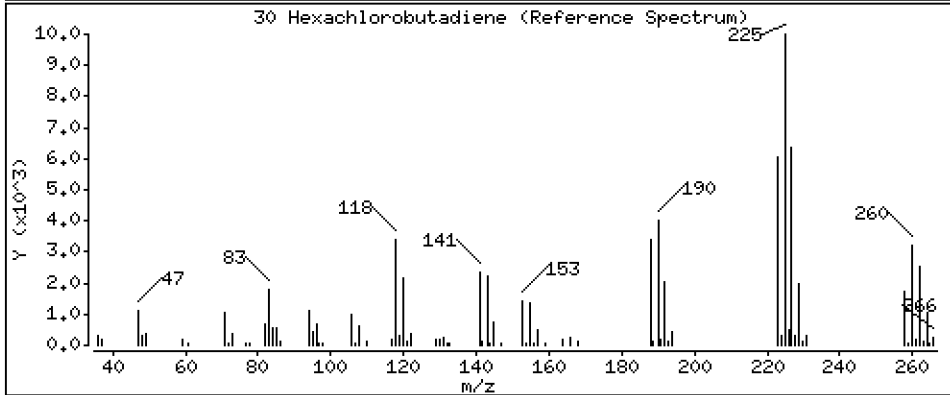
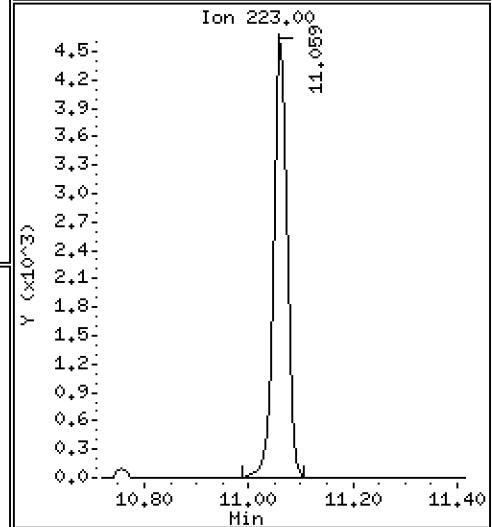
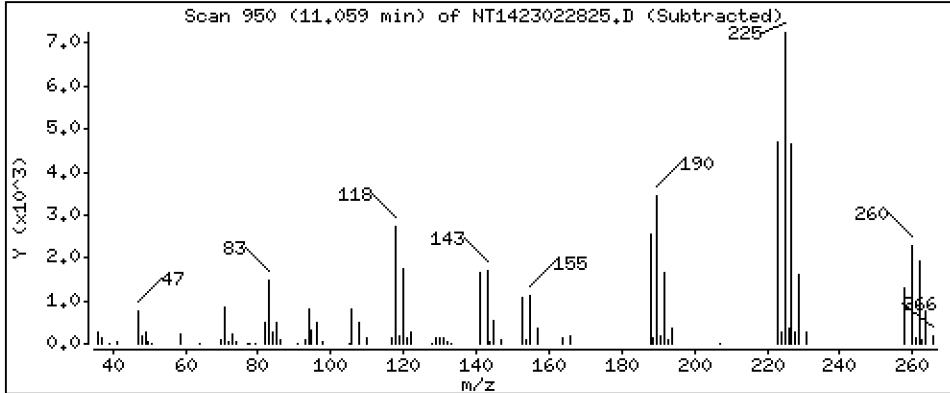
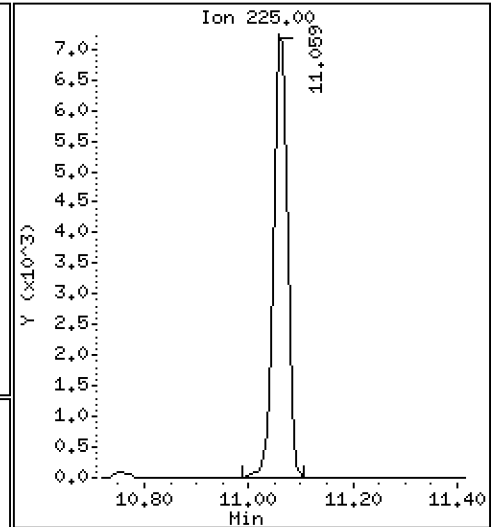
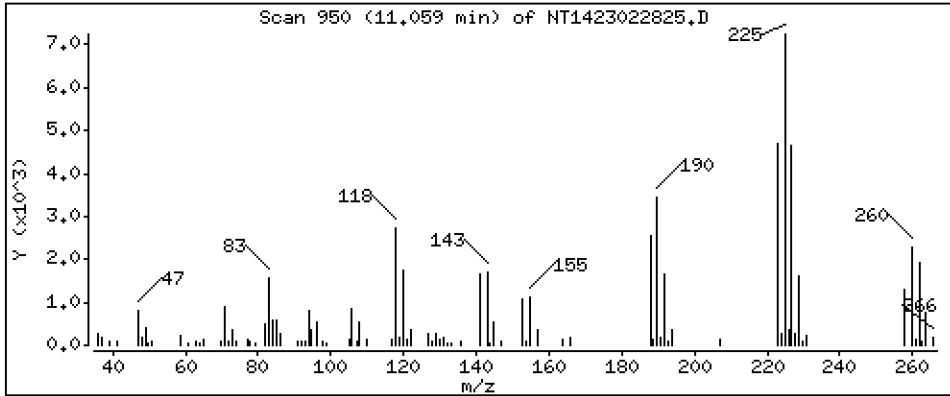
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 0,5495 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

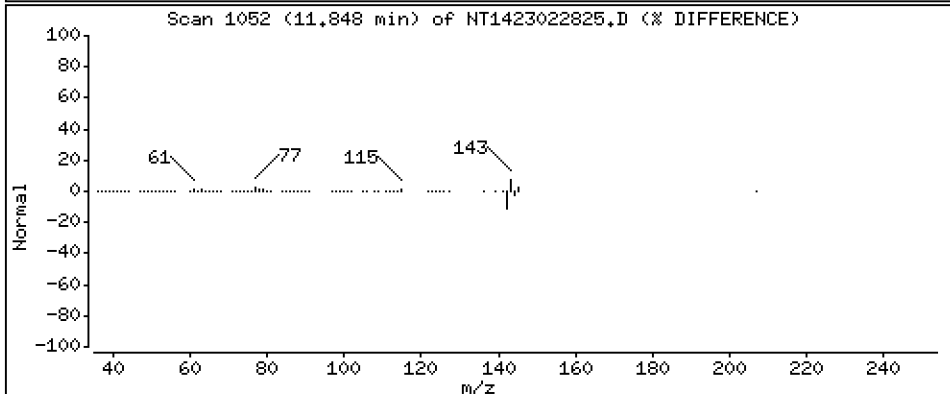
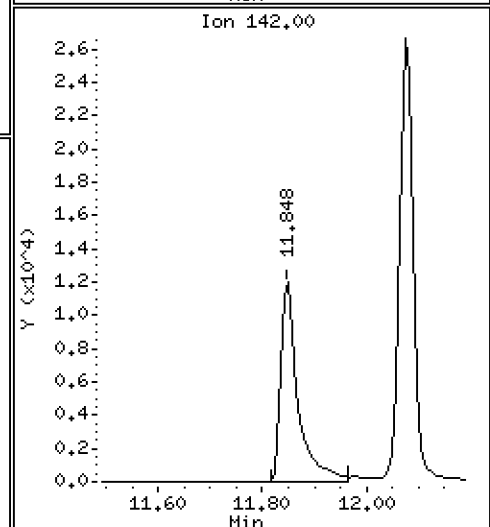
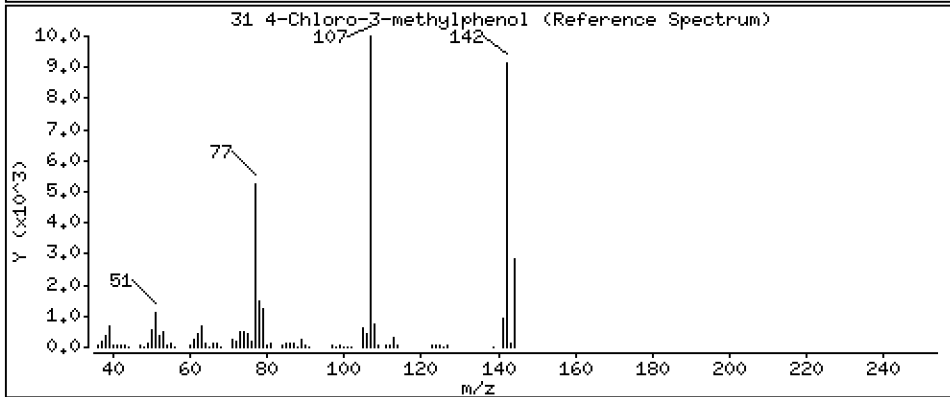
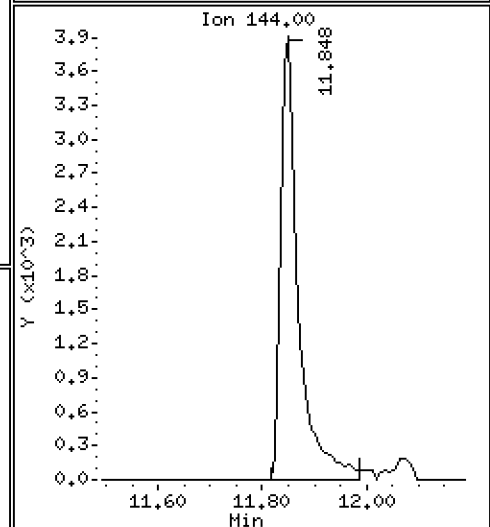
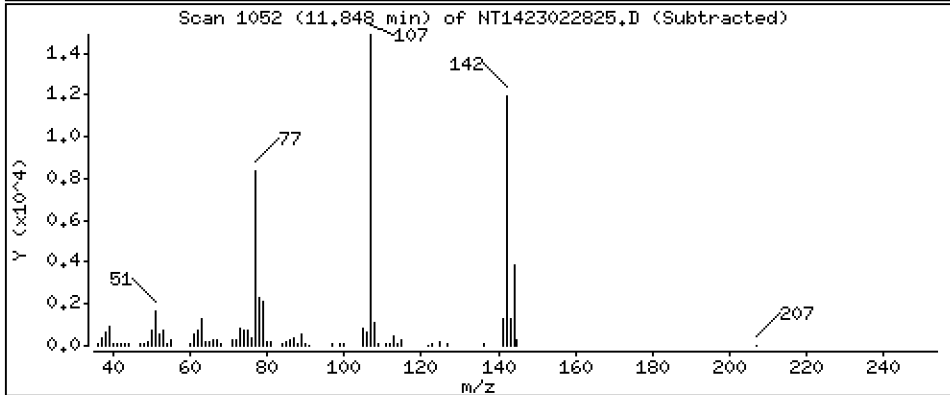
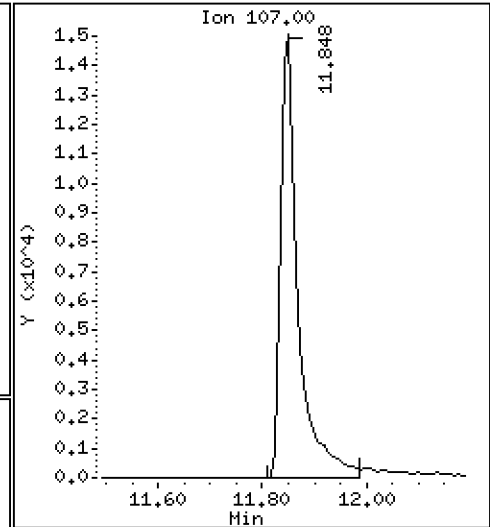
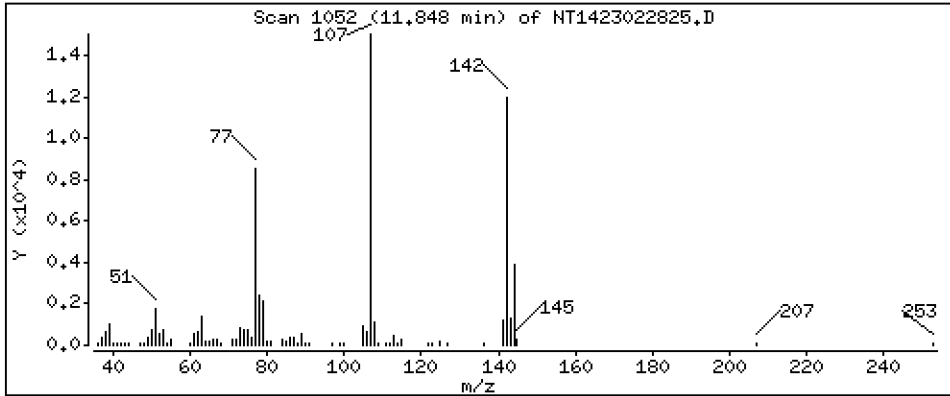
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

31 4-Chloro-3-methylphenol

Concentration: 0,9723 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

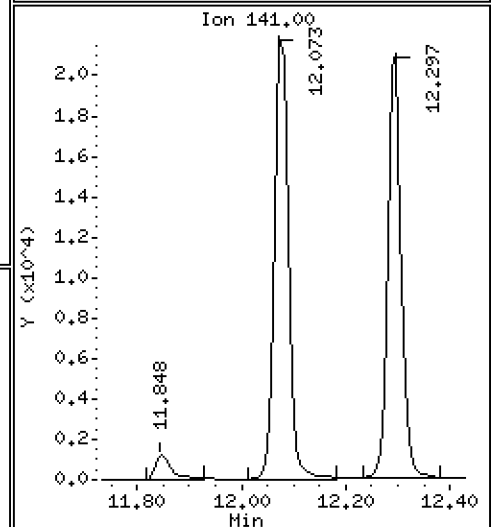
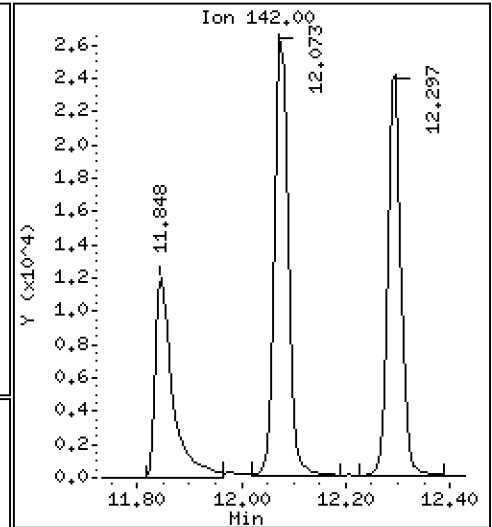
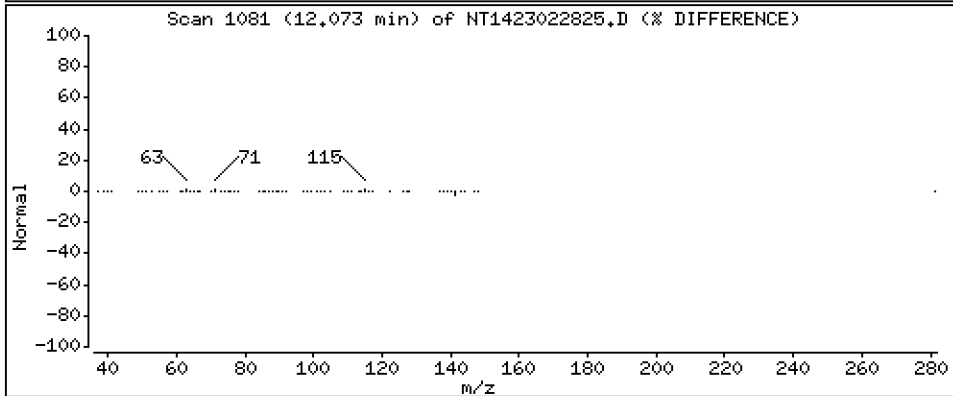
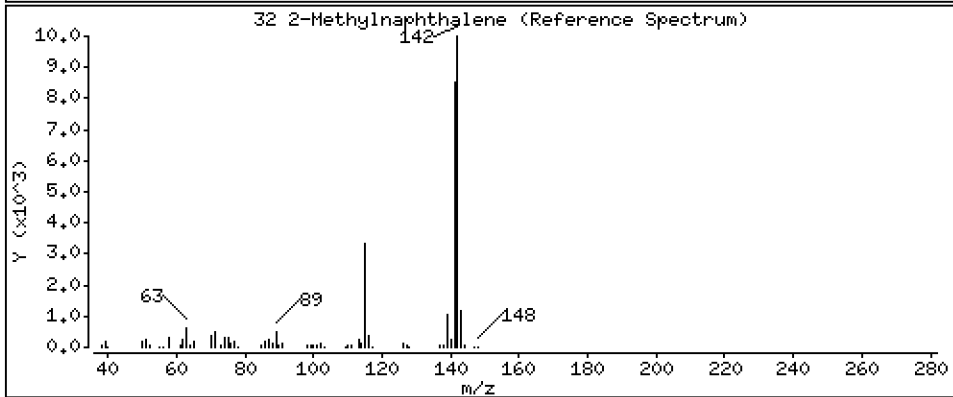
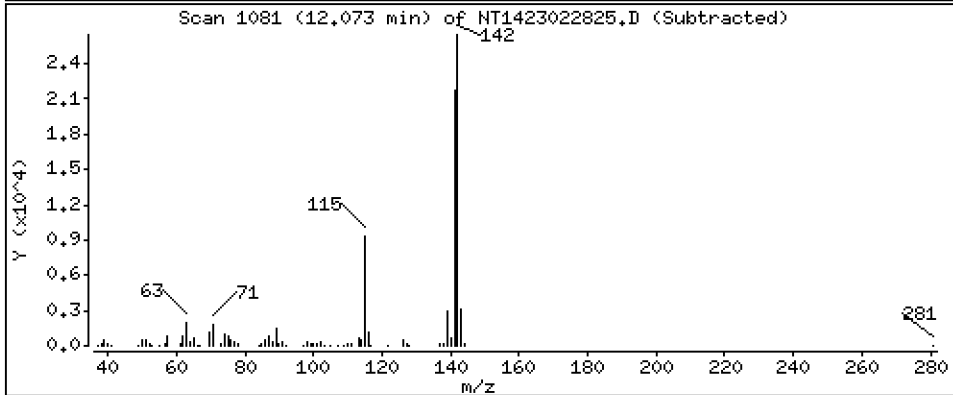
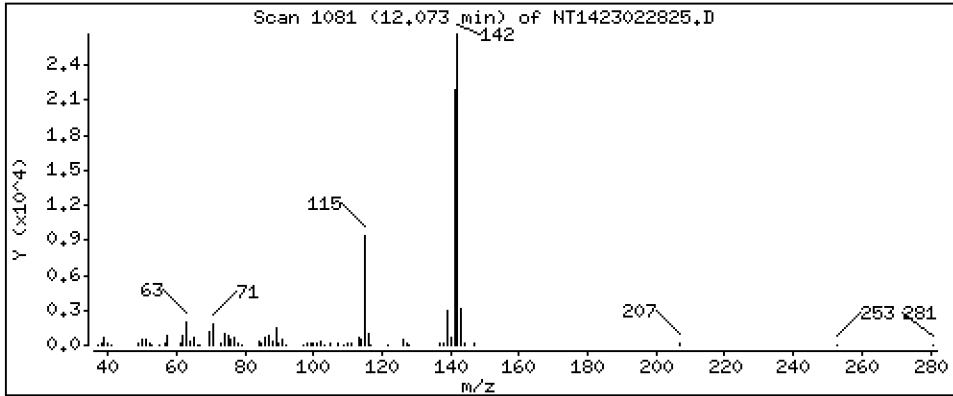
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 0,5070 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

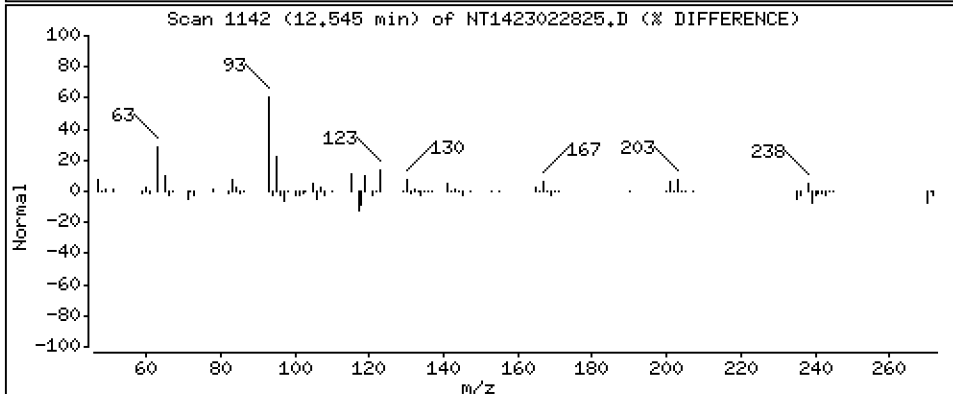
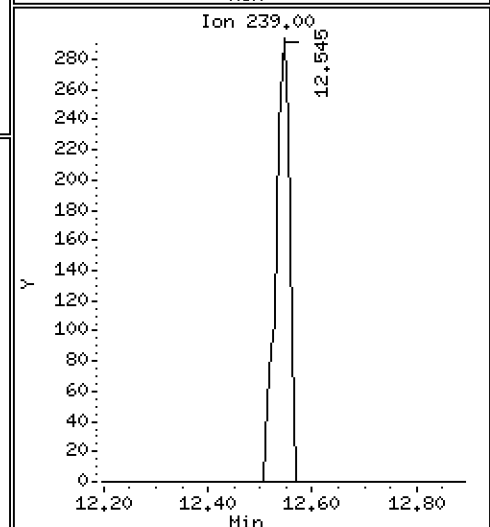
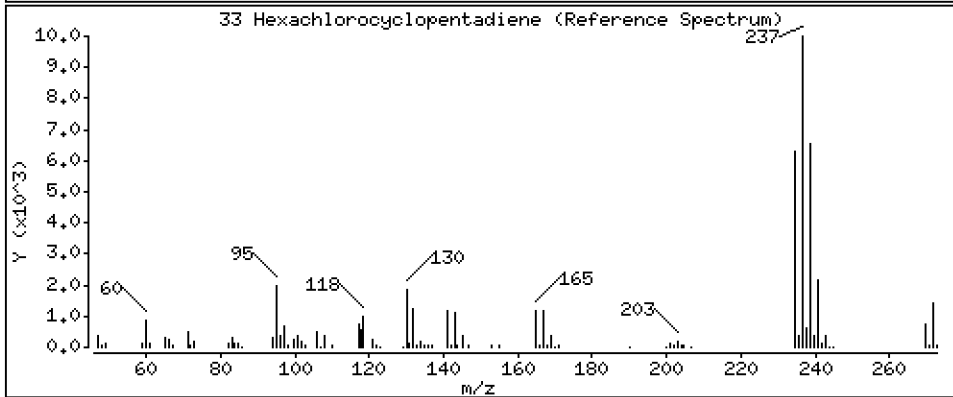
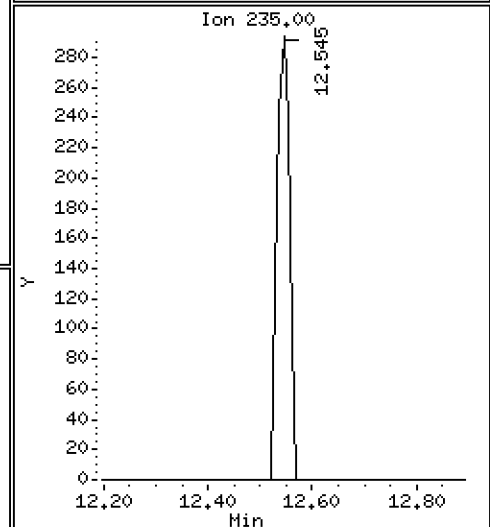
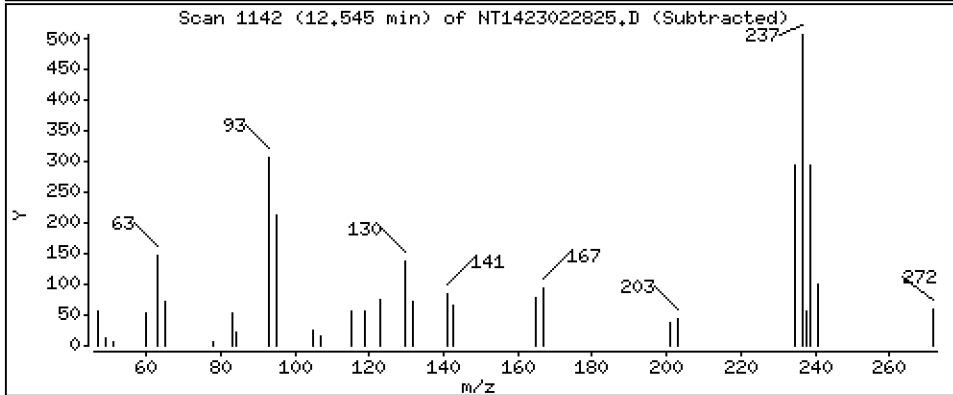
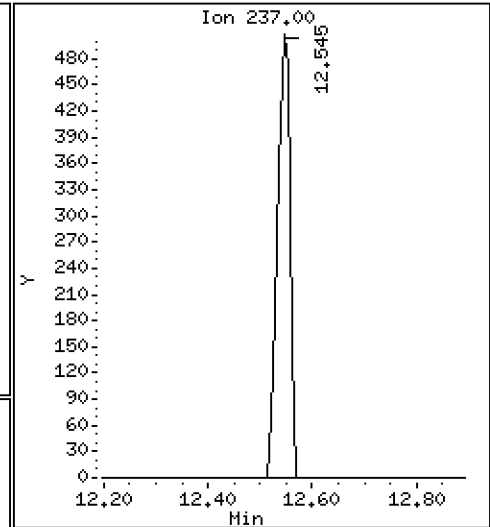
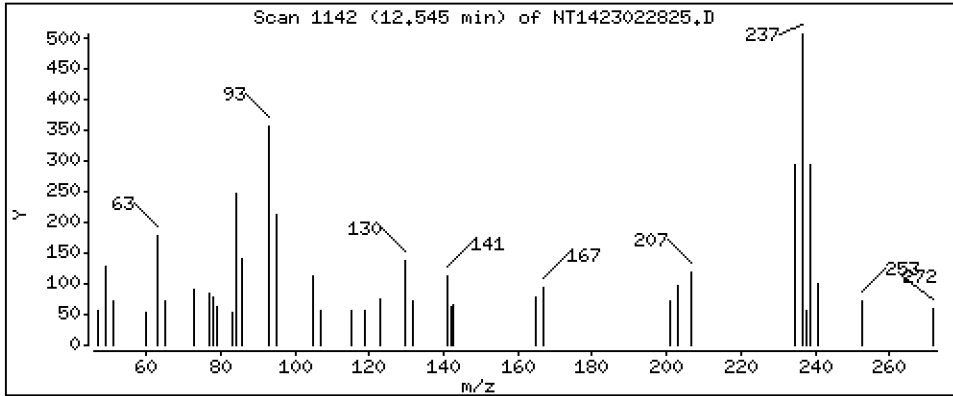
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

33 Hexachlorocyclopentadiene

Concentration: 0,02907 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

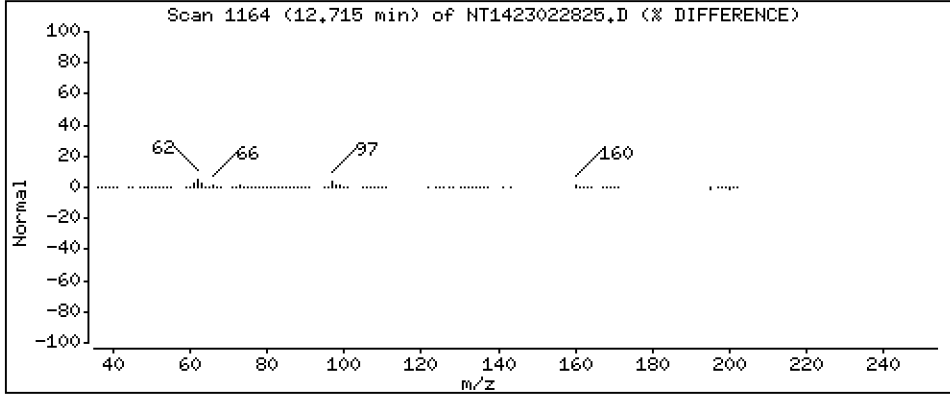
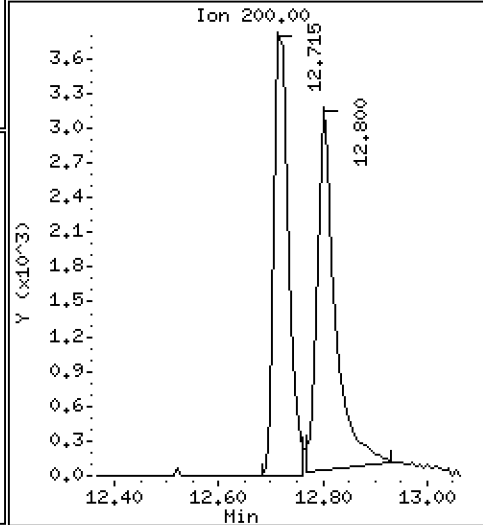
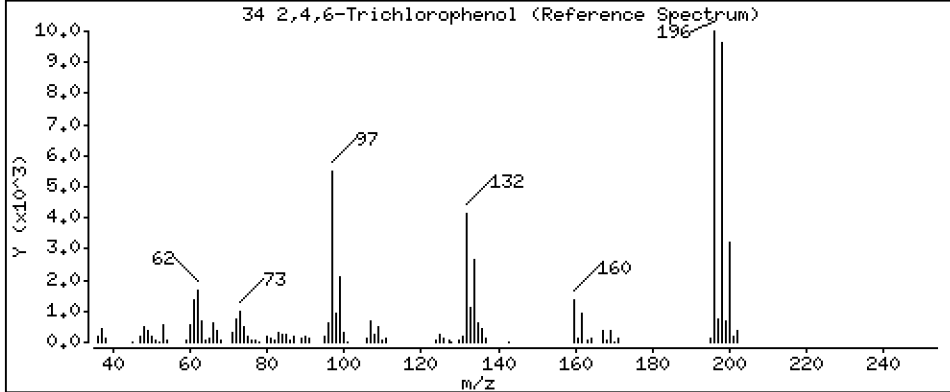
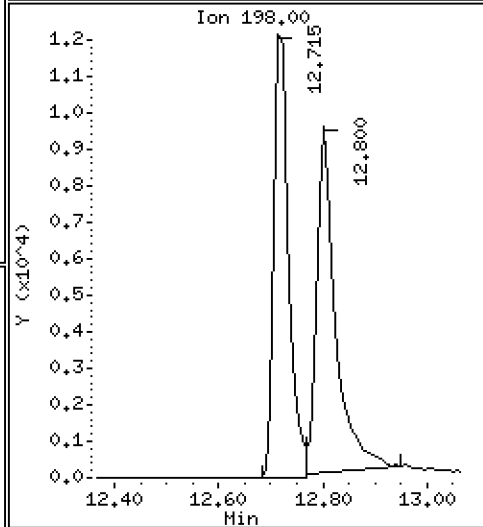
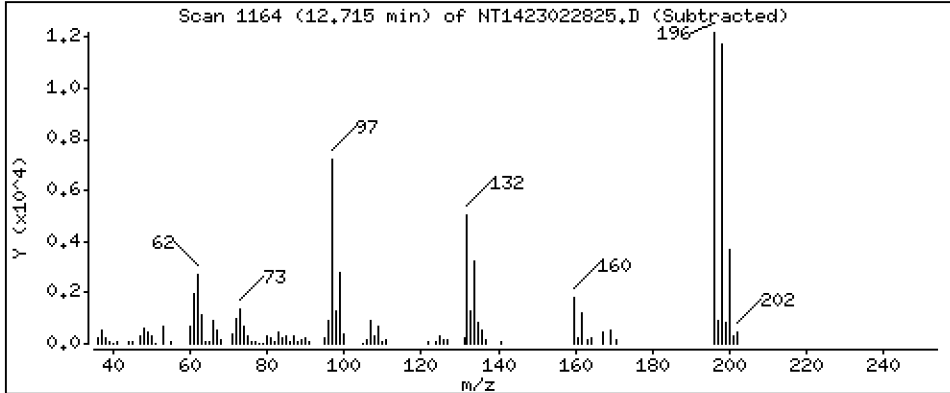
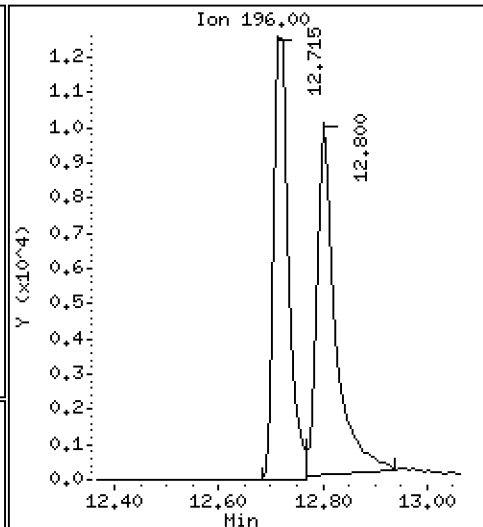
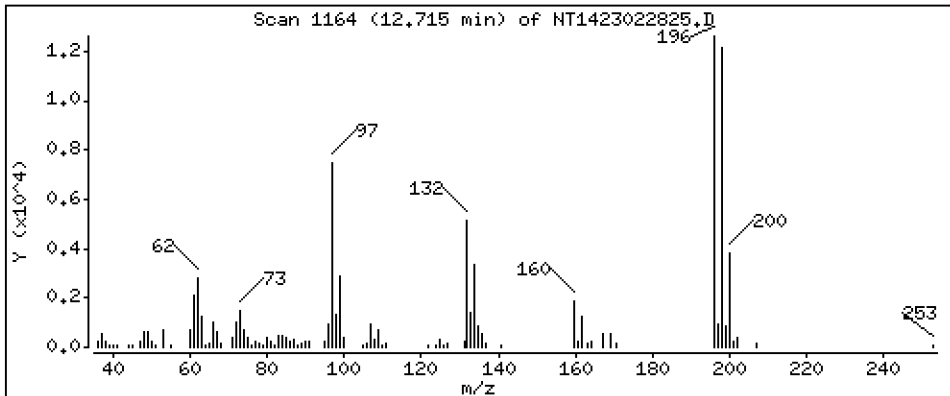
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

34 2,4,6-Trichlorophenol

Concentration: 0,9333 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

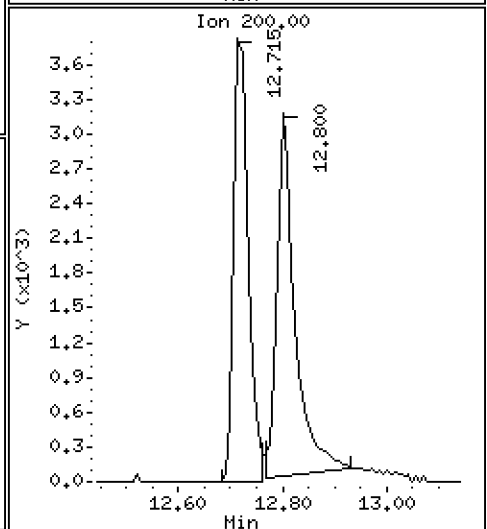
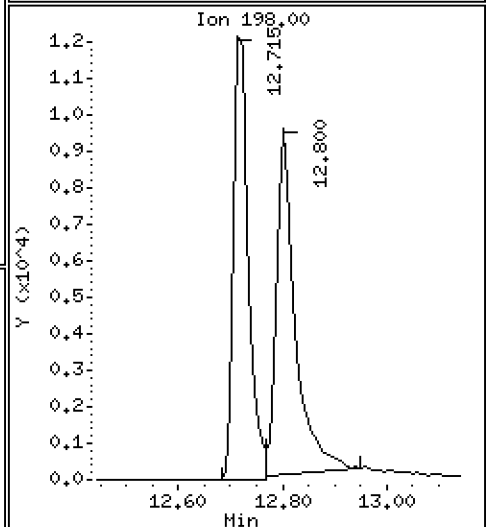
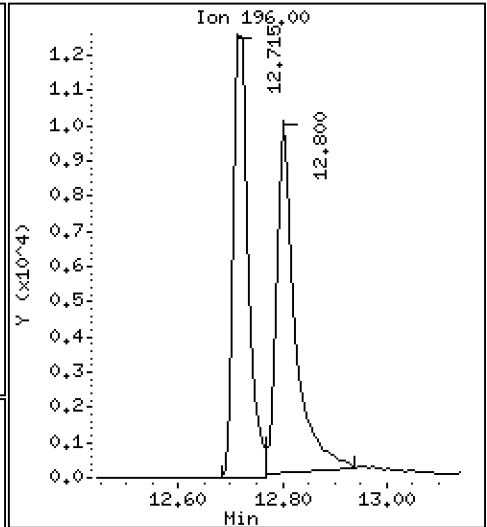
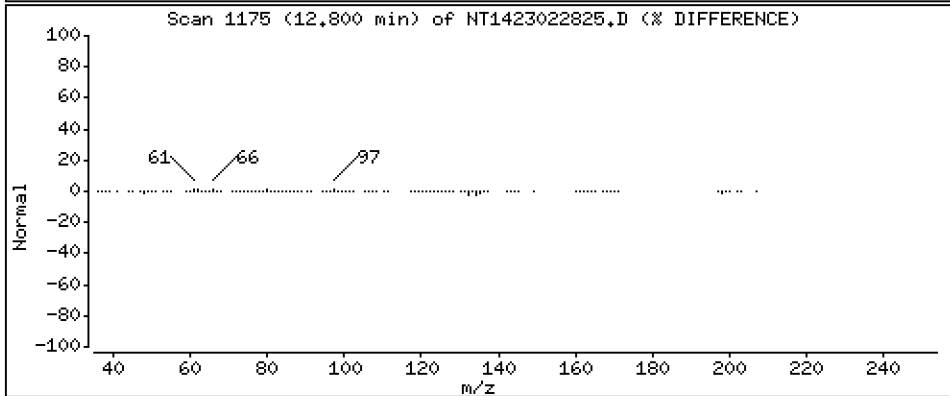
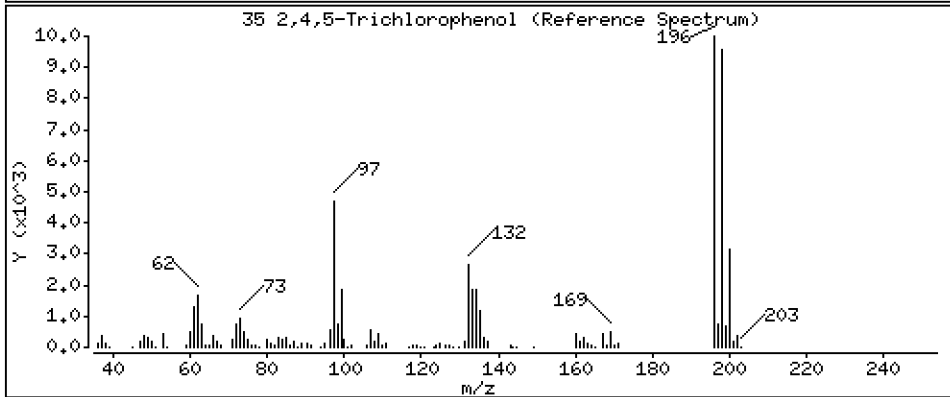
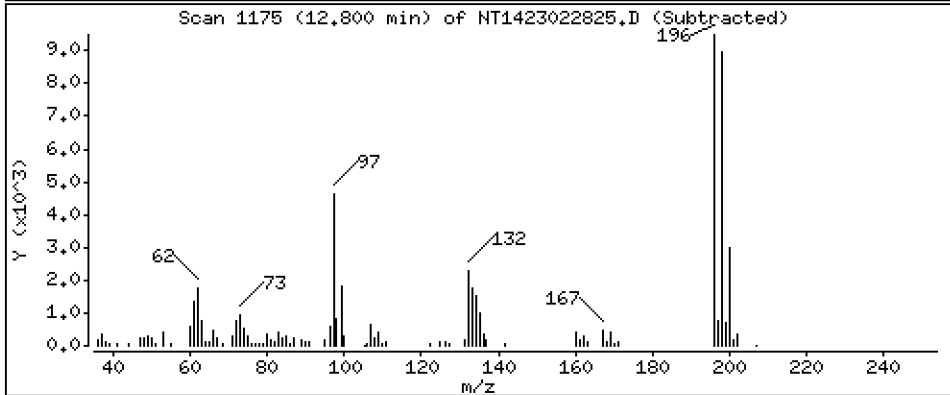
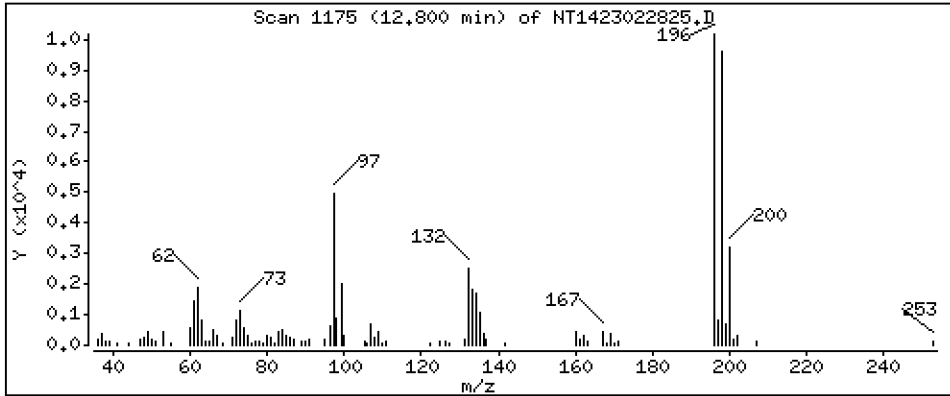
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

35 2,4,5-Trichlorophenol

Concentration: 0,8772 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

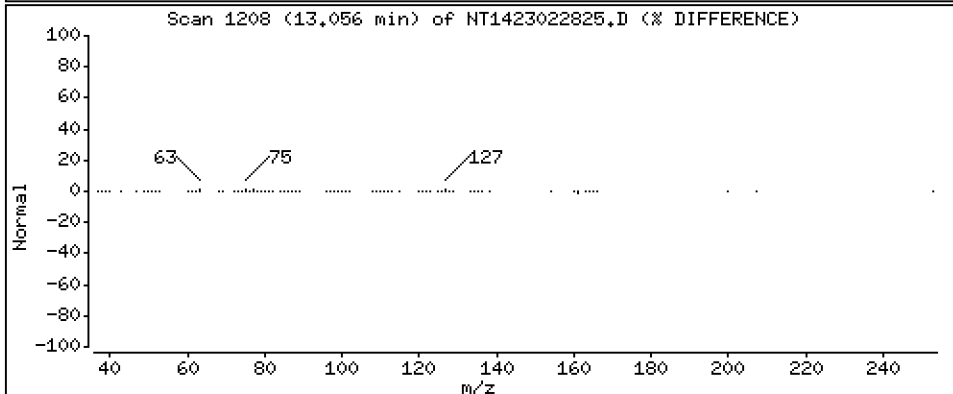
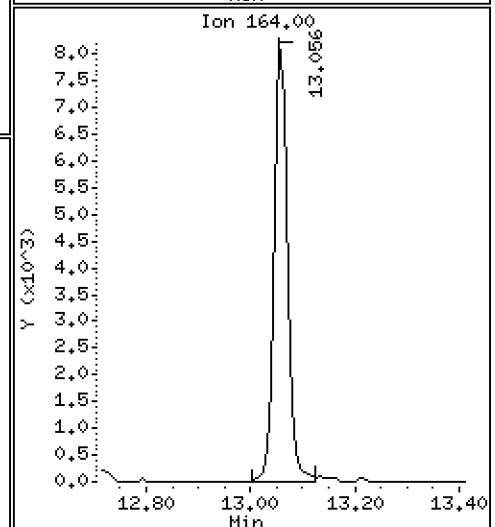
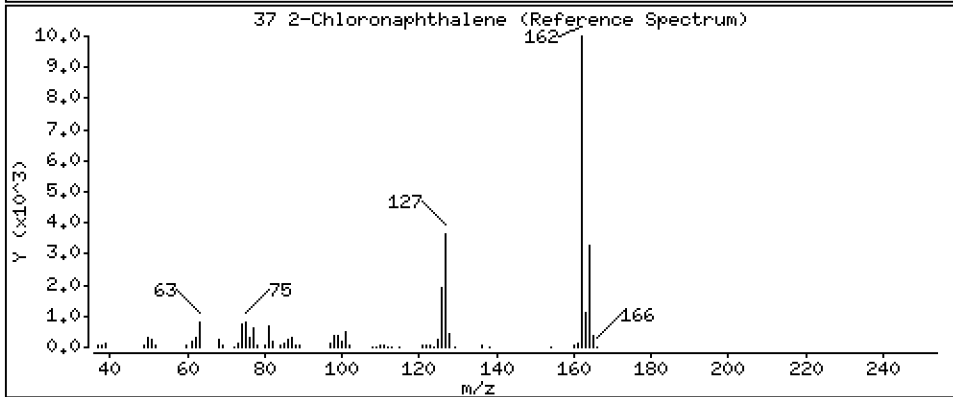
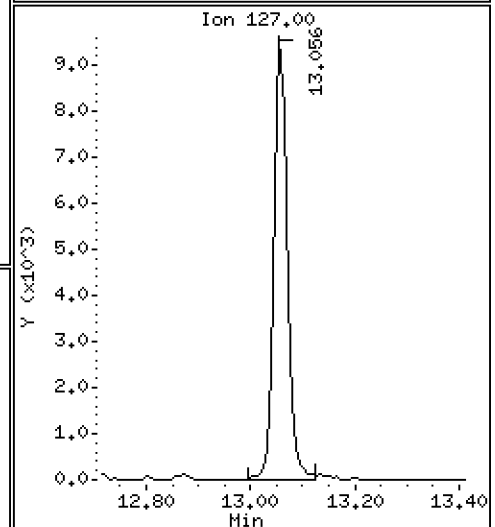
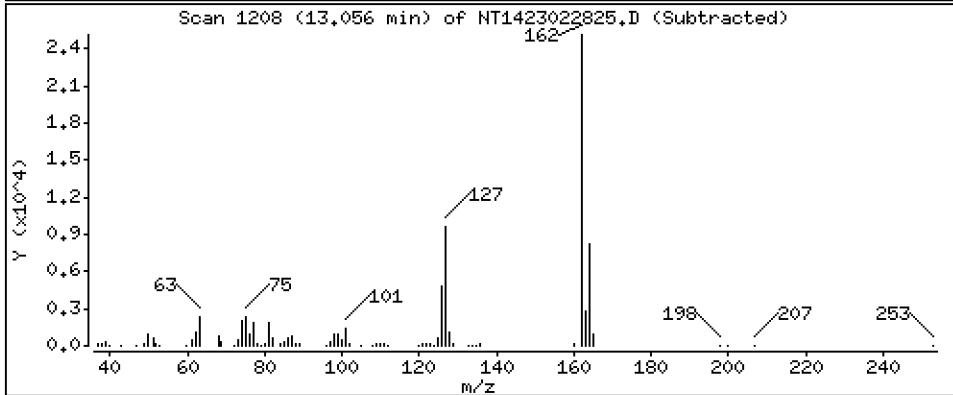
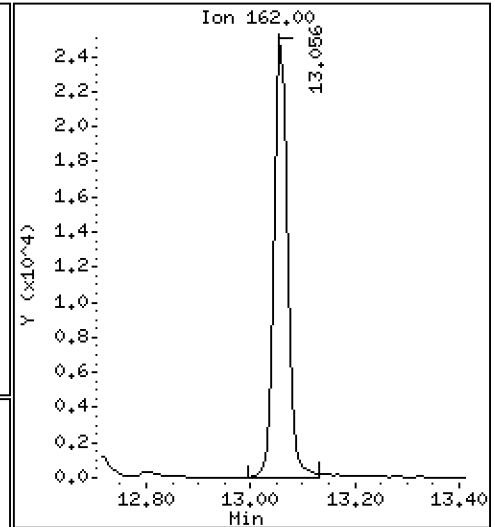
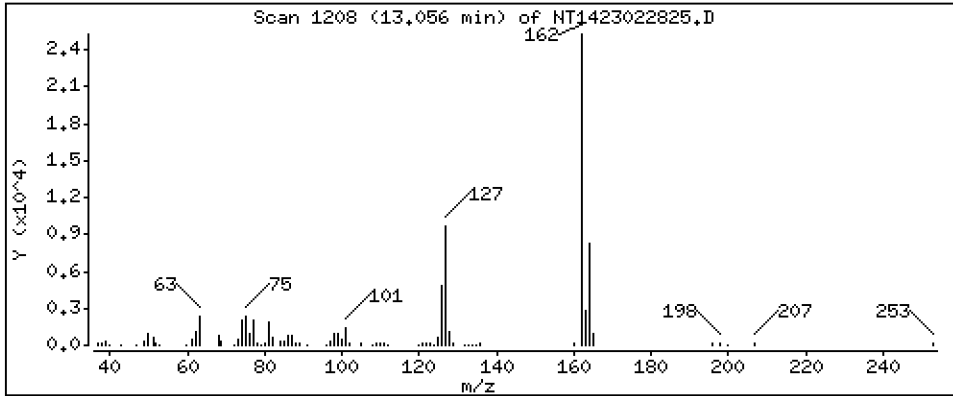
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

37 2-Chloronaphthalene

Concentration: 0,5205 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

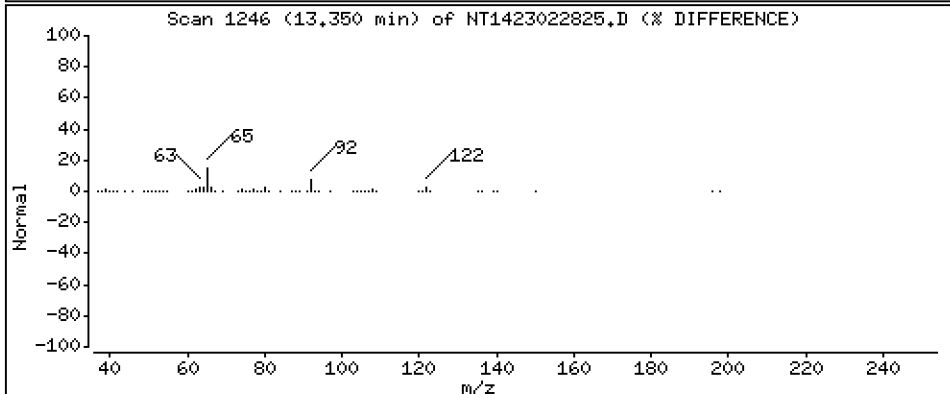
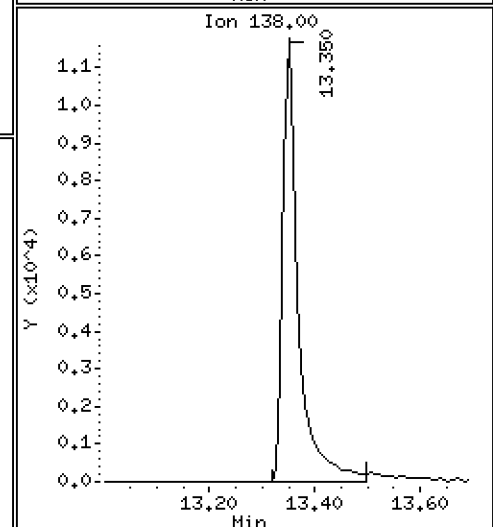
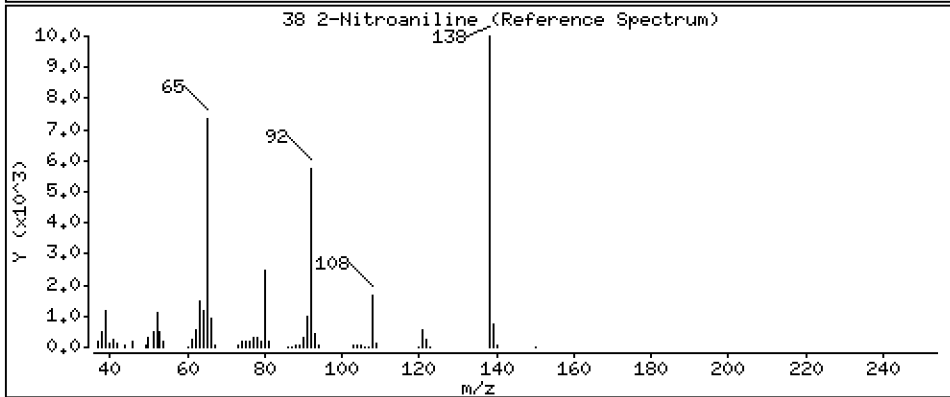
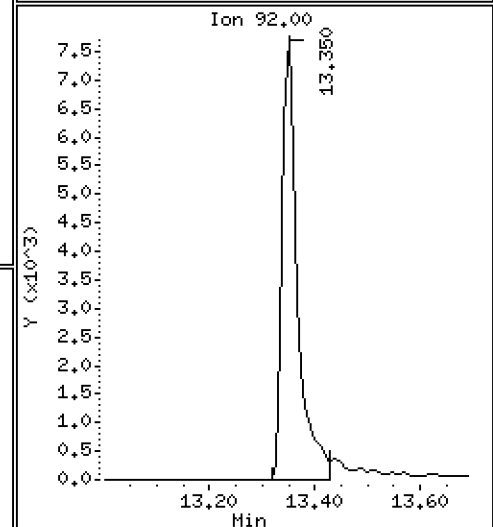
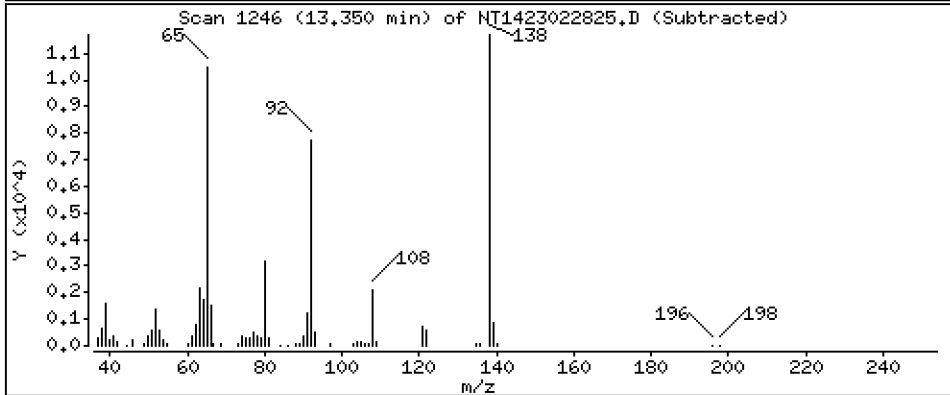
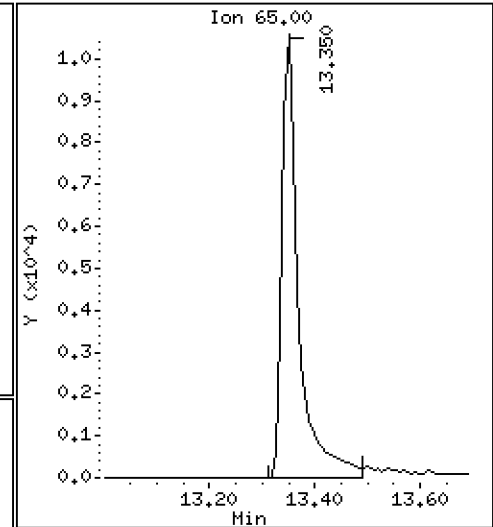
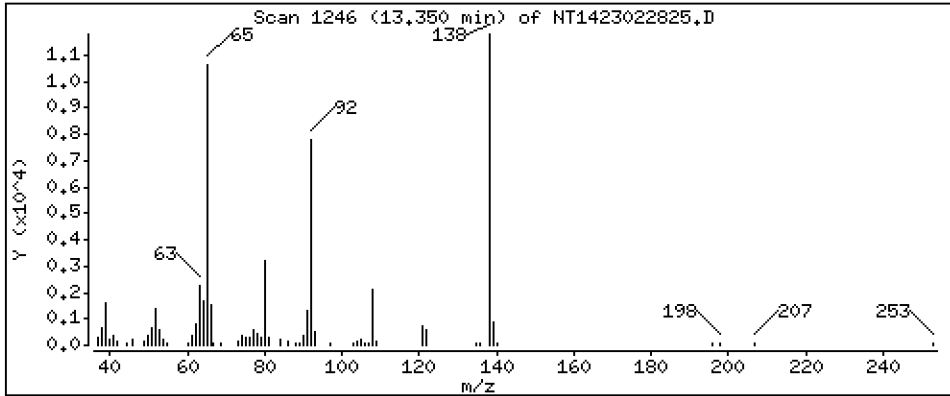
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

38 2-Nitroaniline

Concentration: 1,048 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

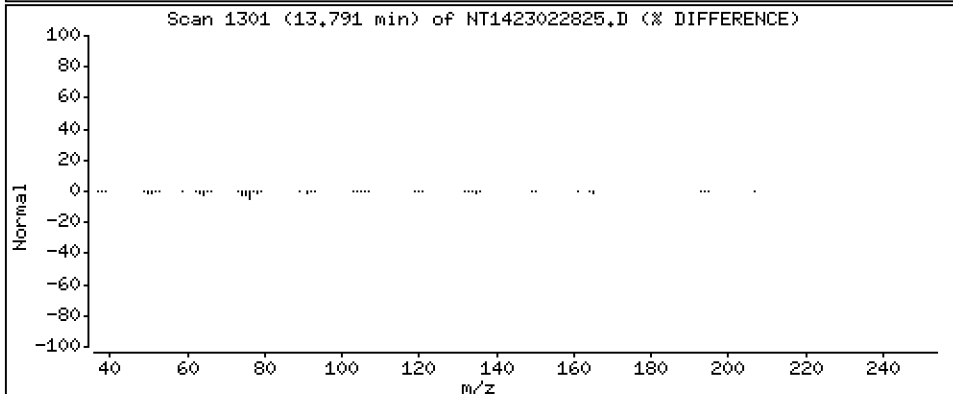
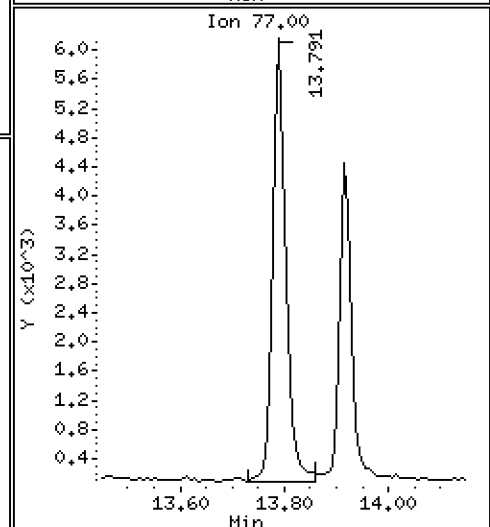
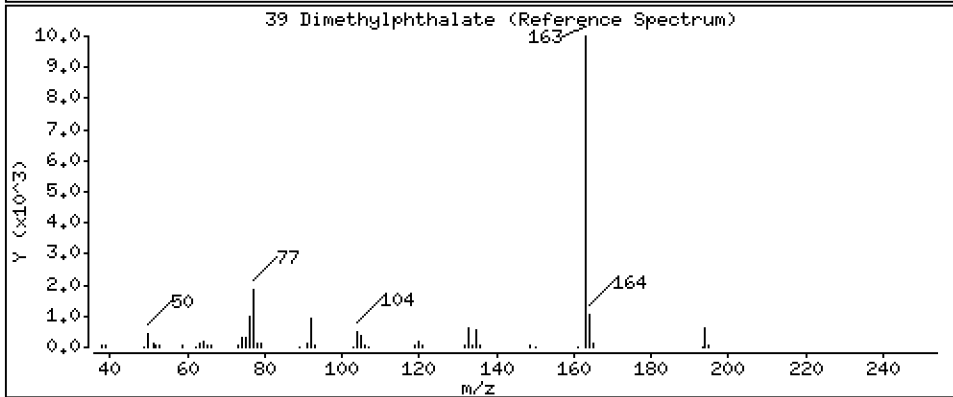
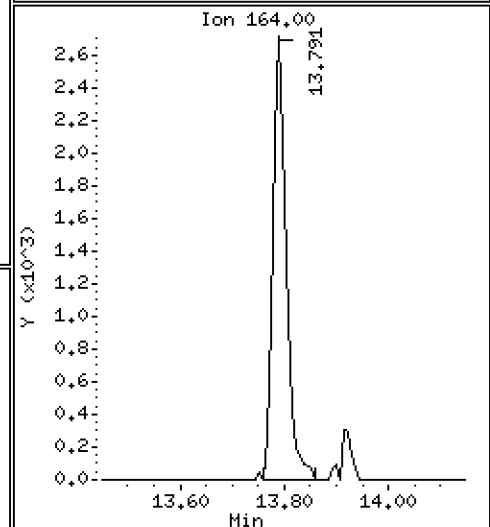
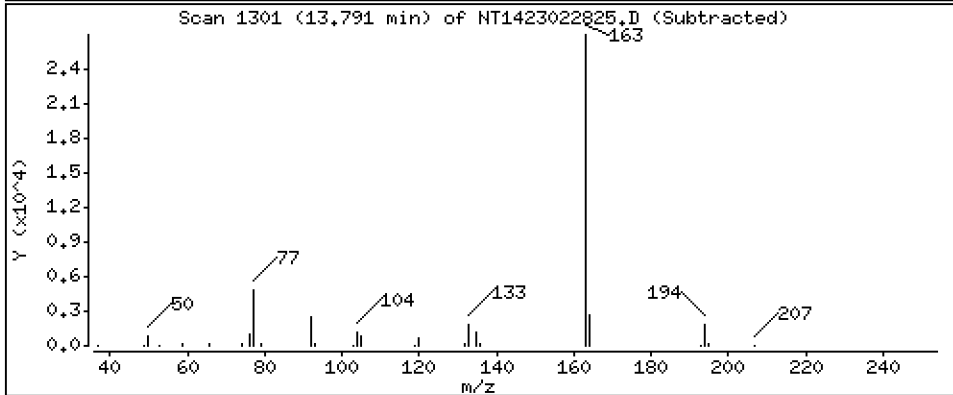
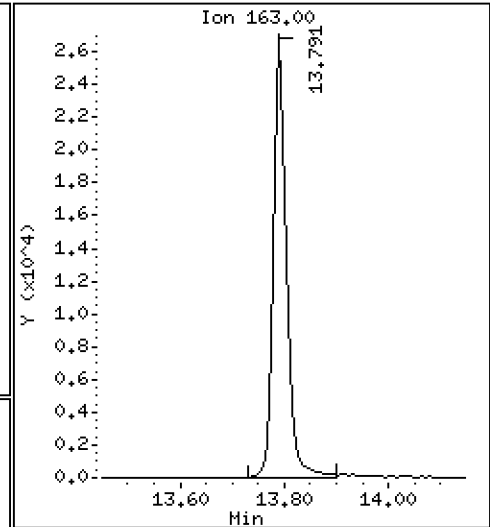
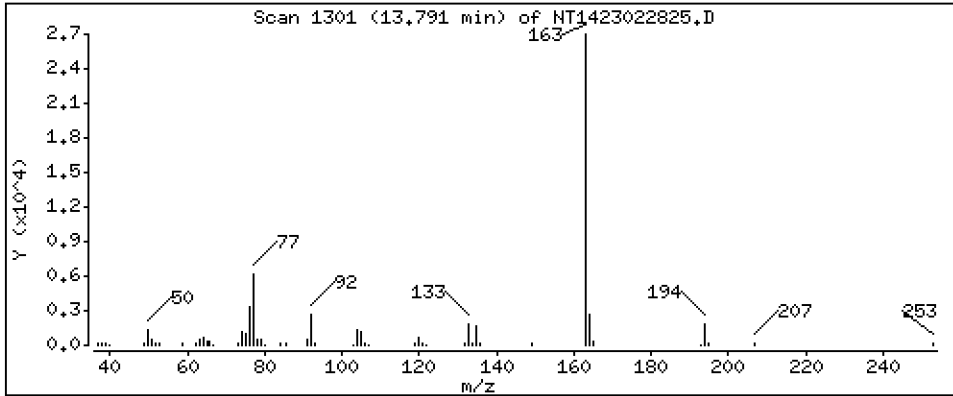
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 0,5482 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

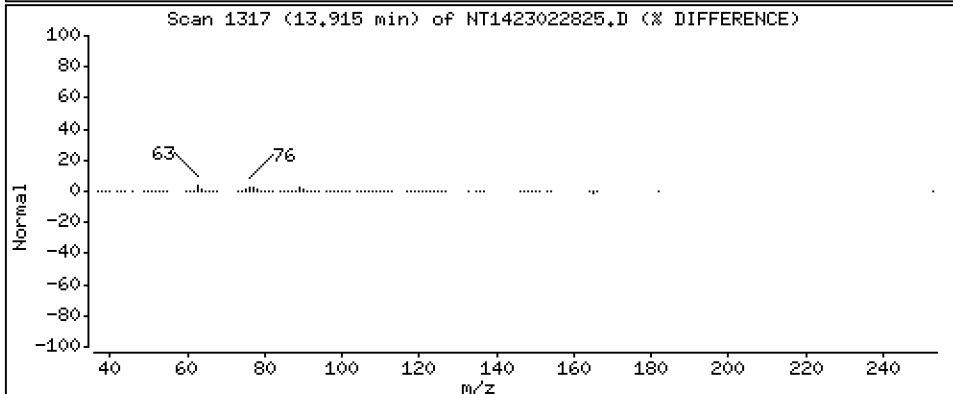
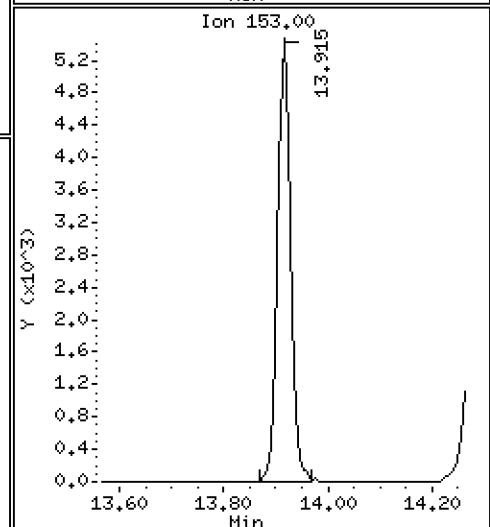
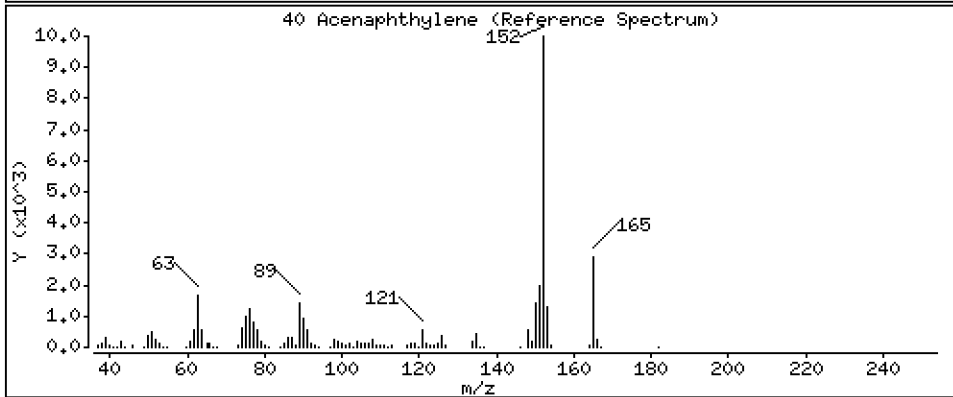
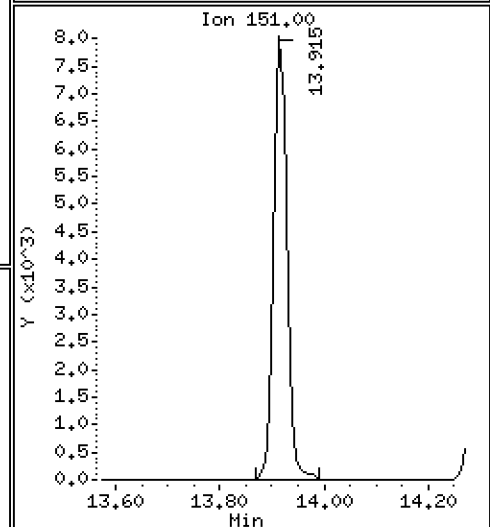
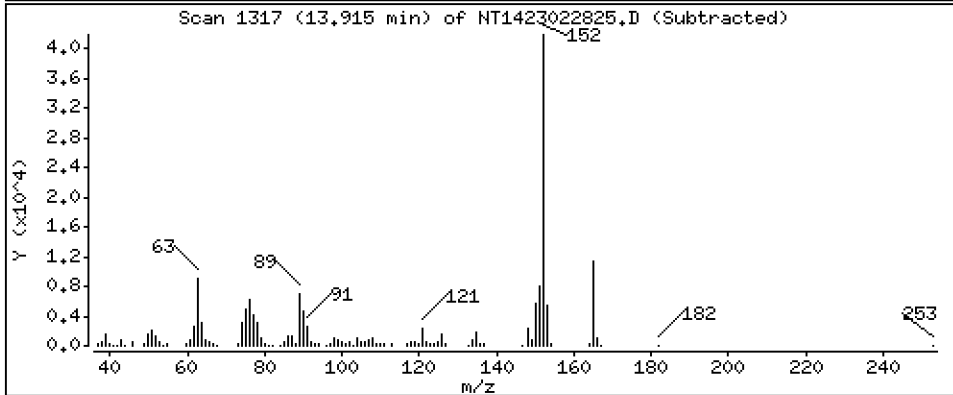
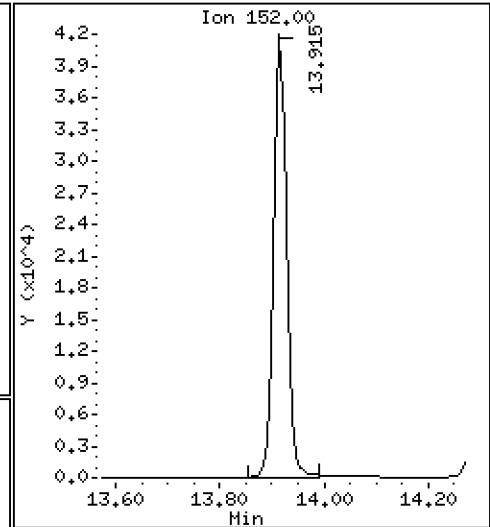
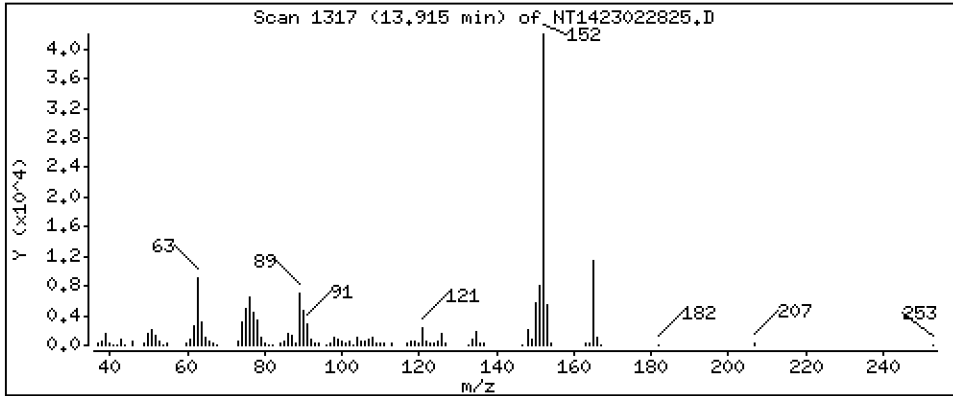
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 0,5668 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

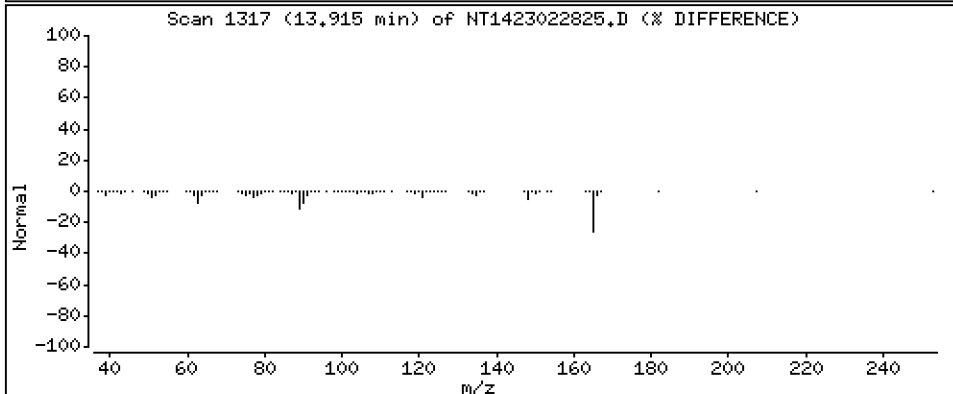
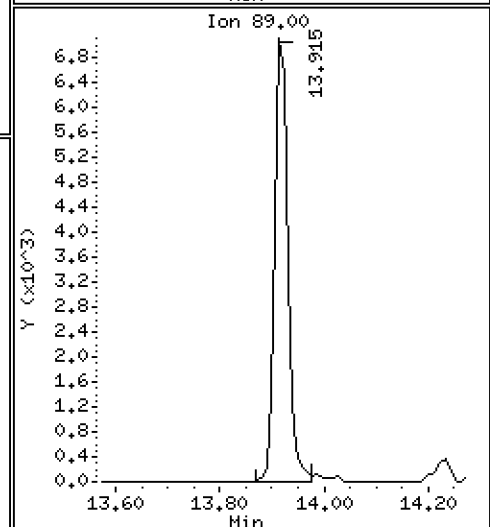
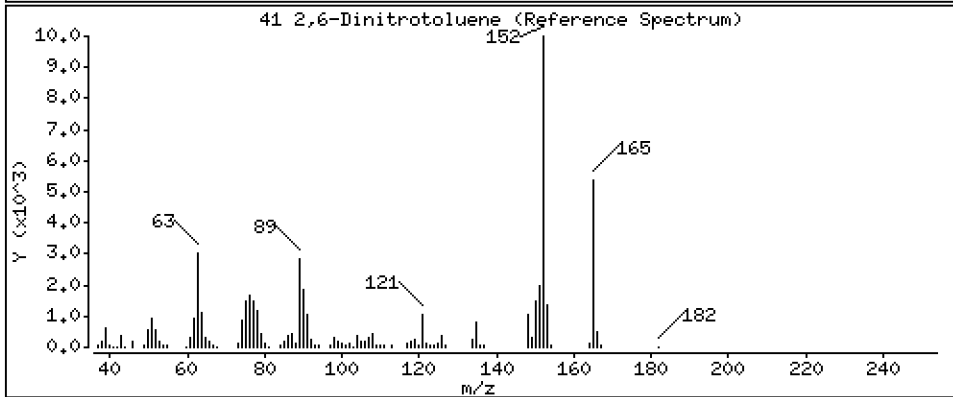
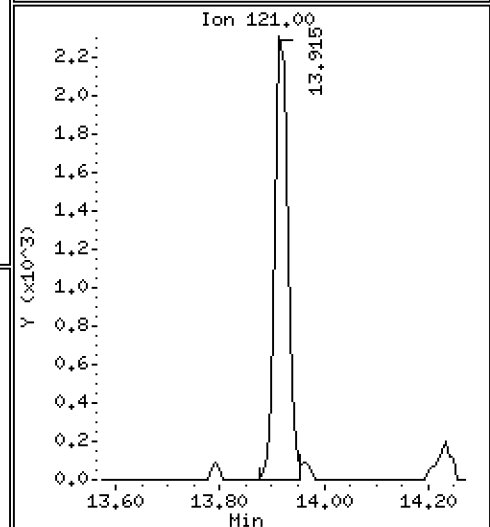
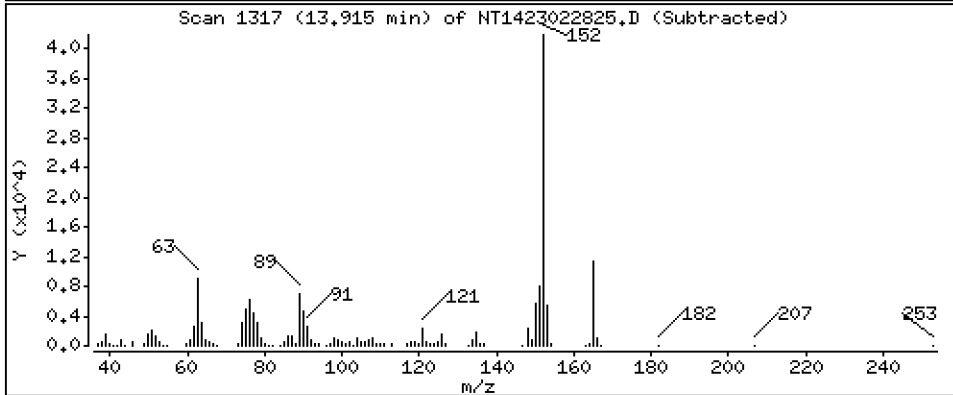
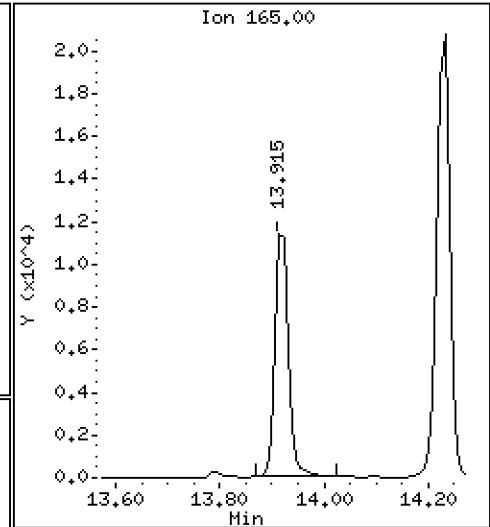
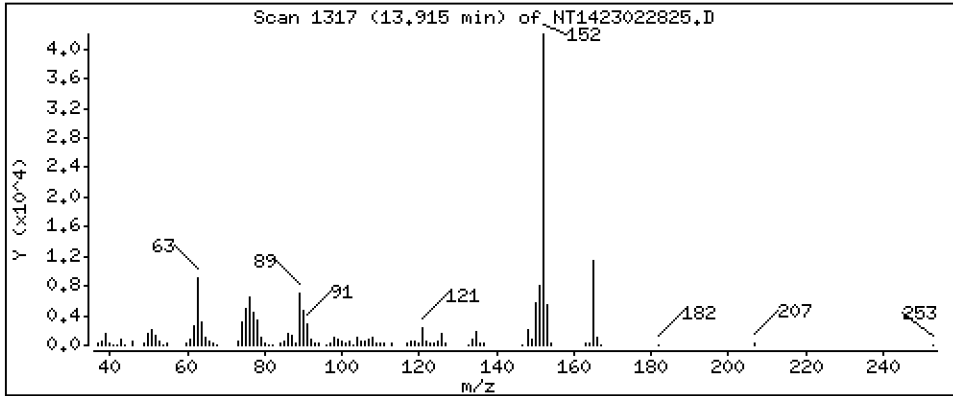
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

41 2,6-Dinitrotoluene

Concentration: 0.9944 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

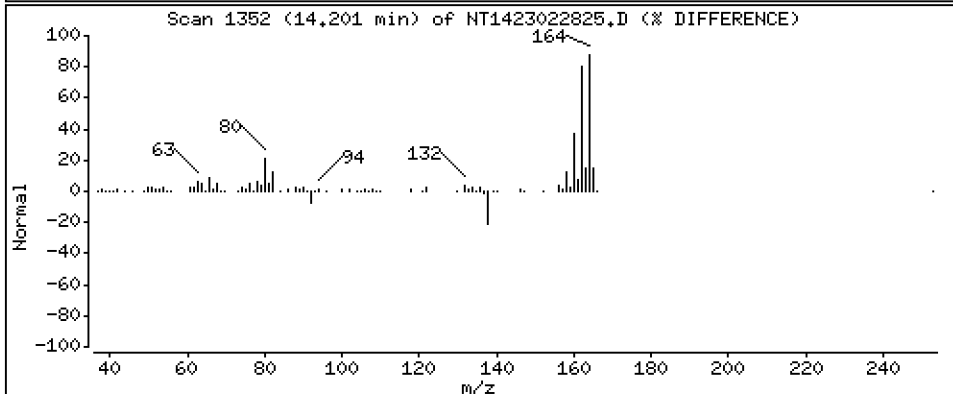
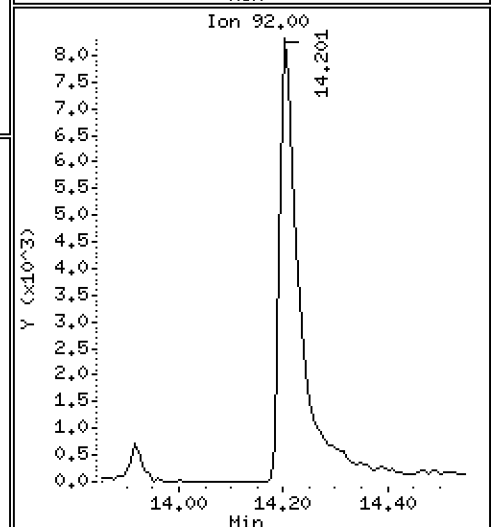
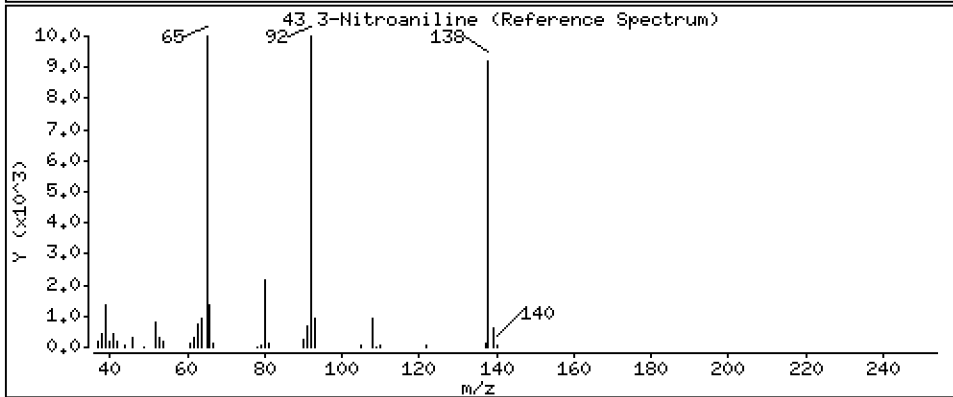
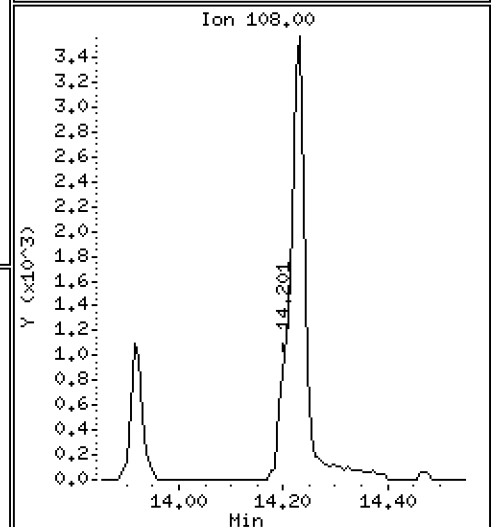
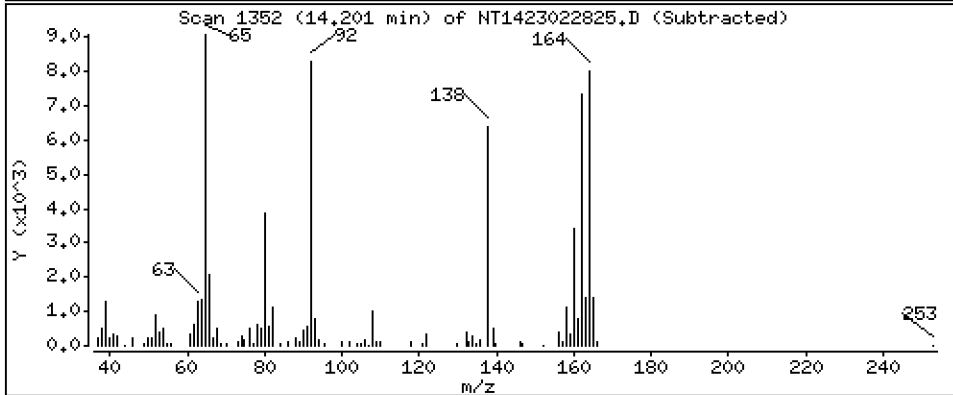
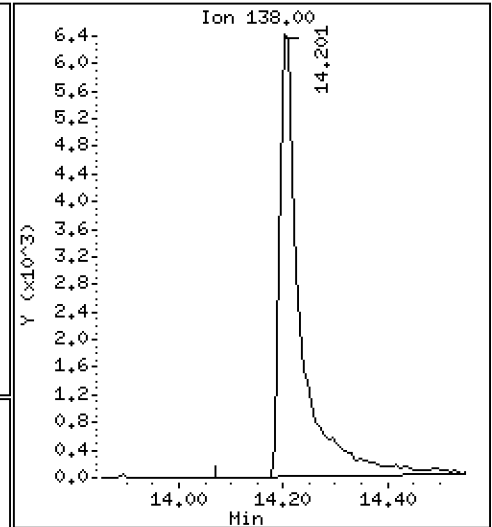
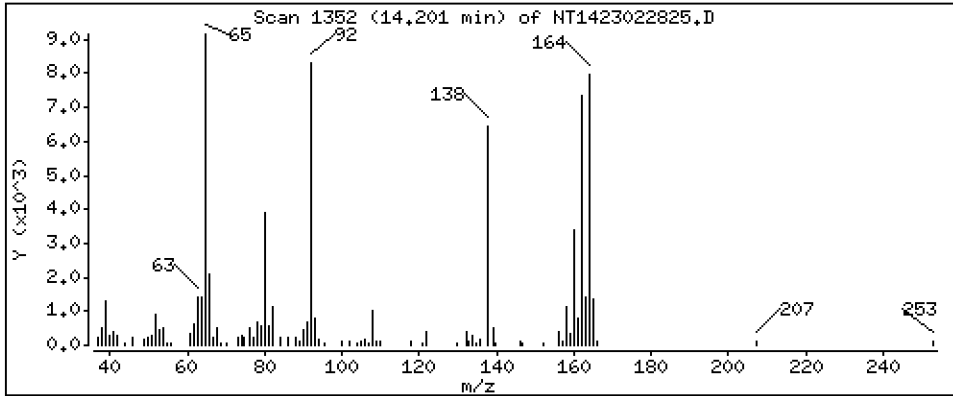
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

43 3-Nitroaniline

Concentration: 0,9113 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

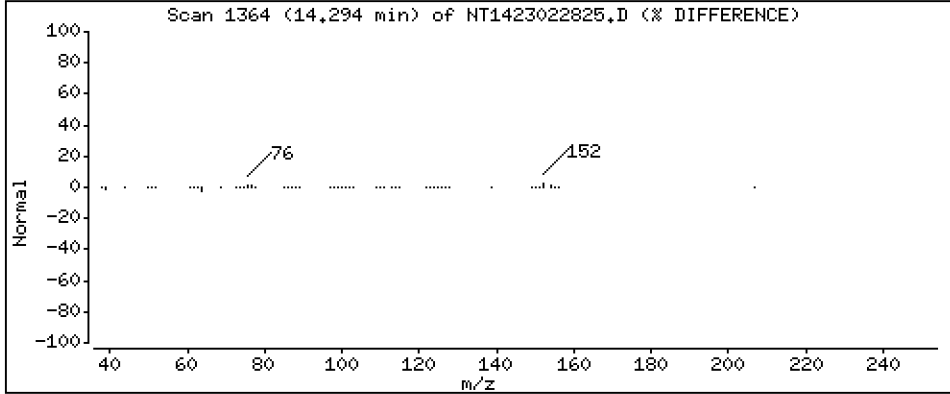
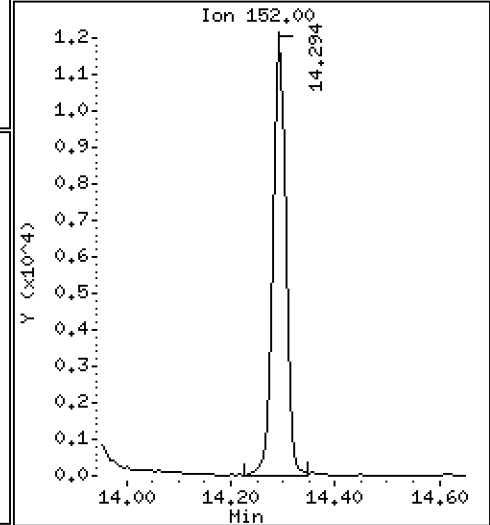
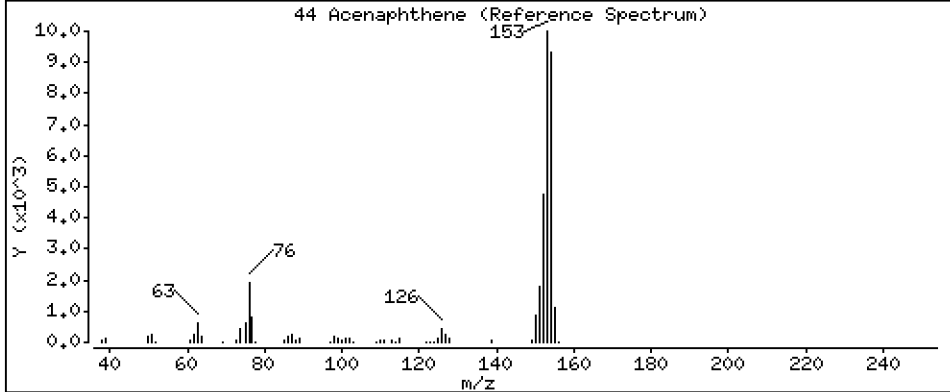
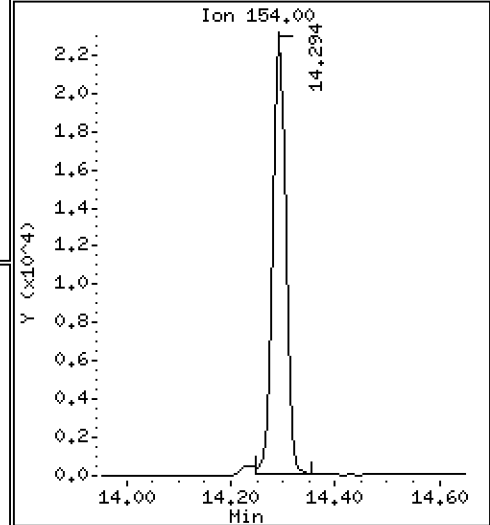
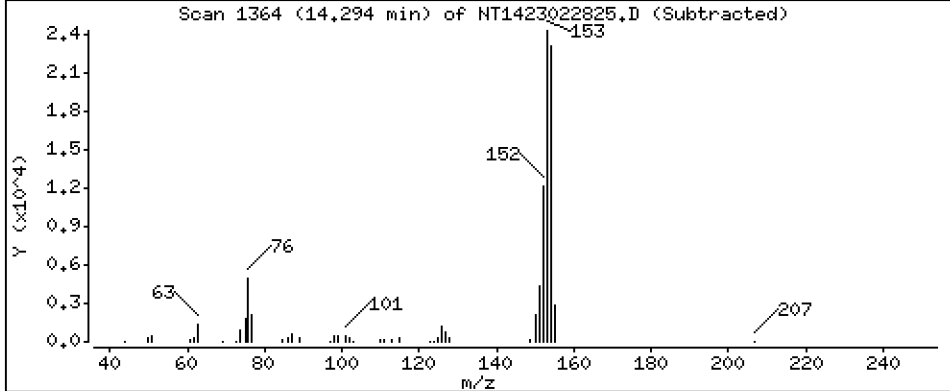
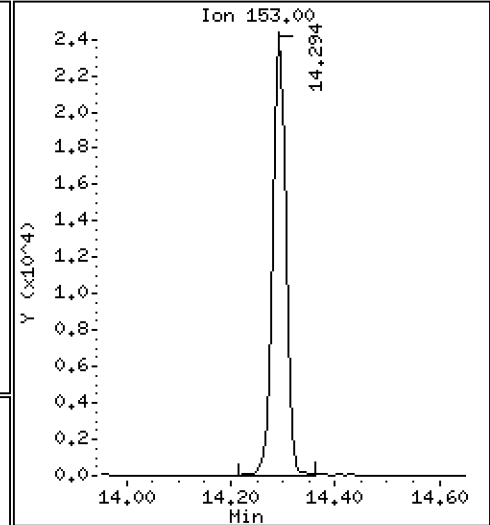
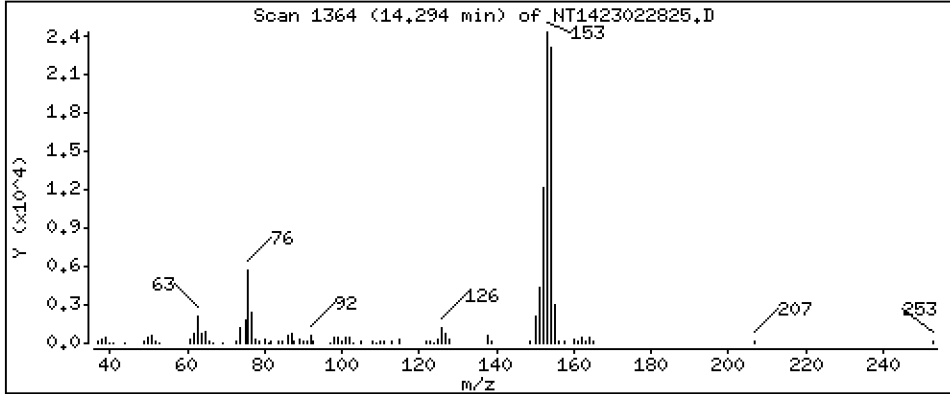
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 0,5211 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

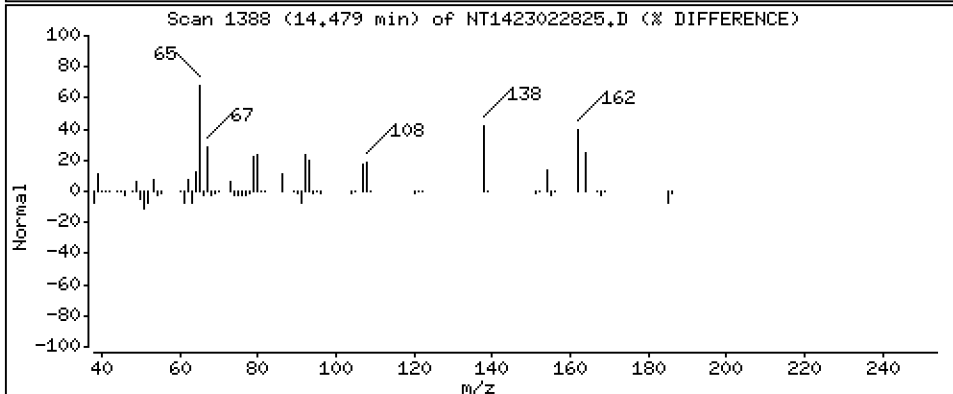
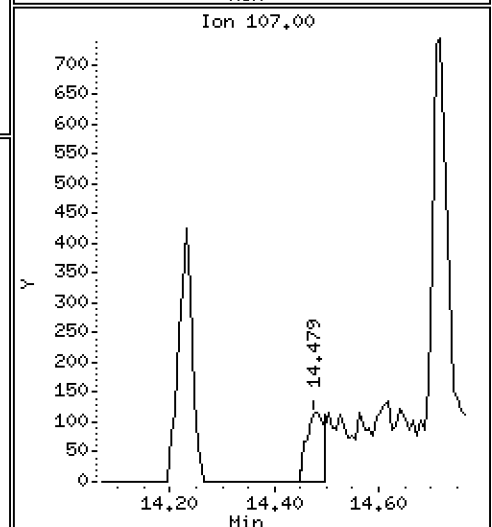
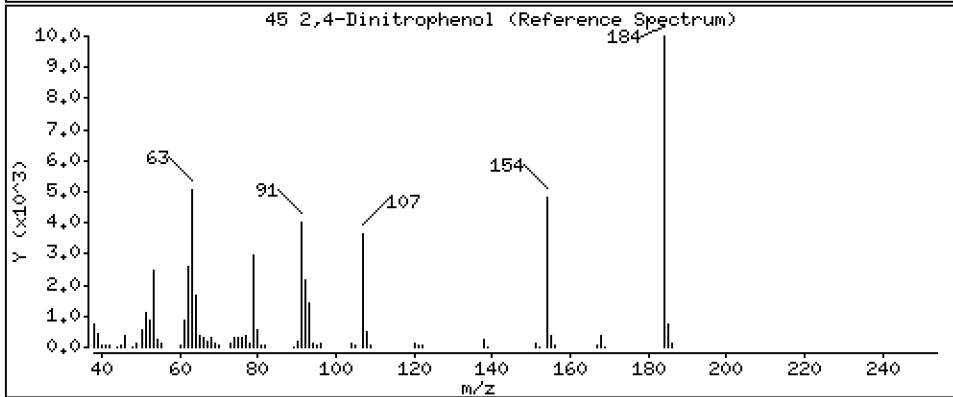
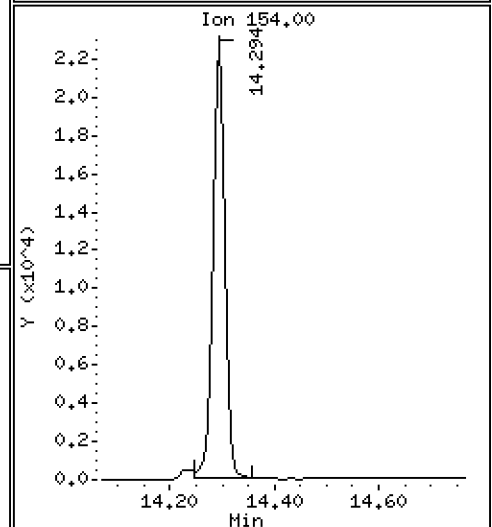
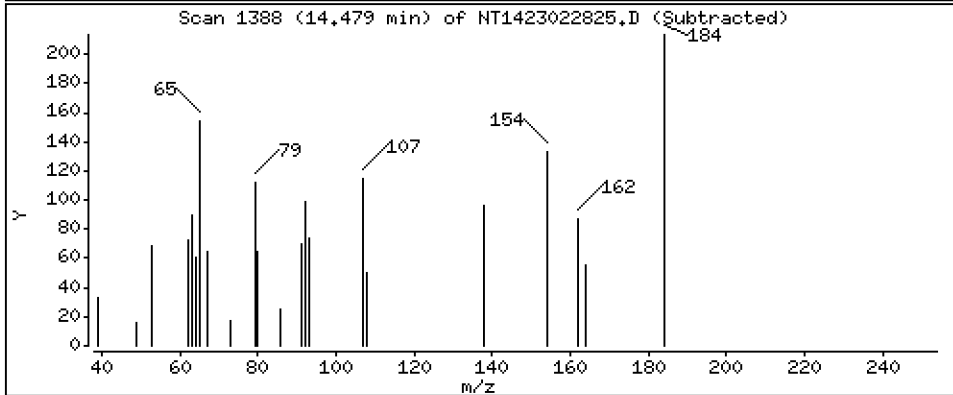
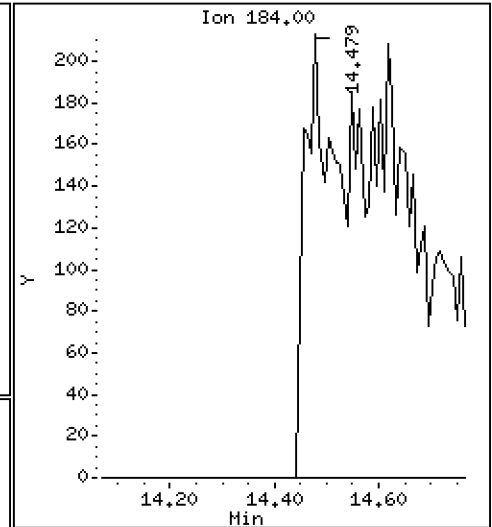
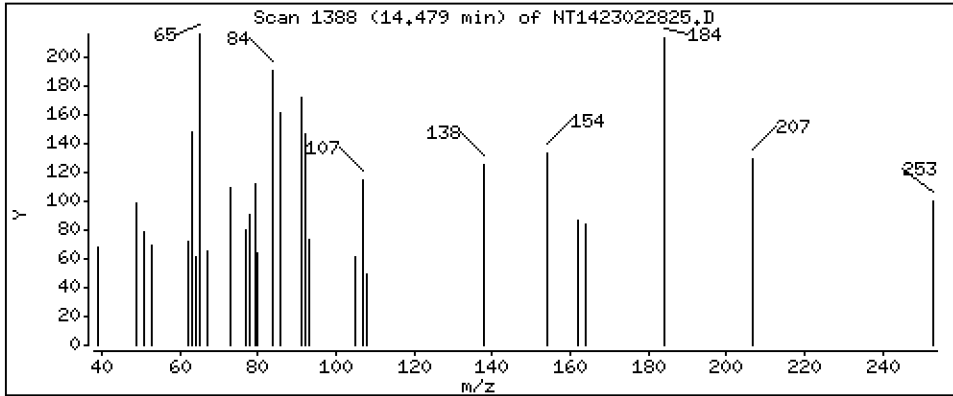
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

45 2,4-Dinitrophenol

Concentration: 0,3335 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

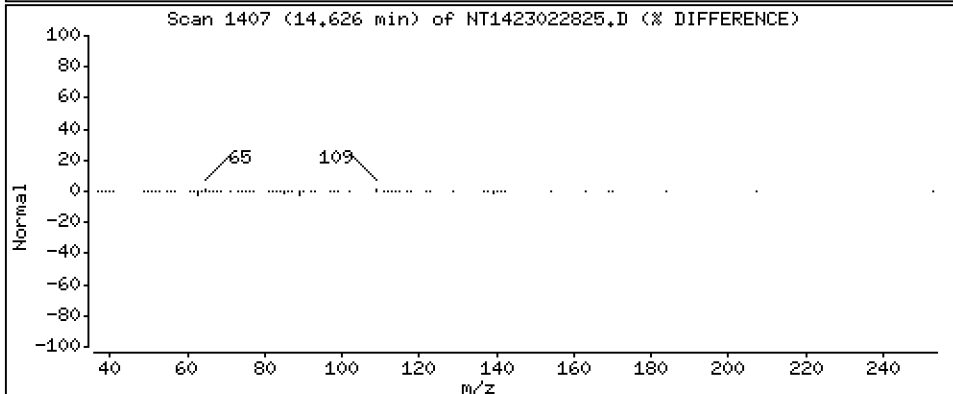
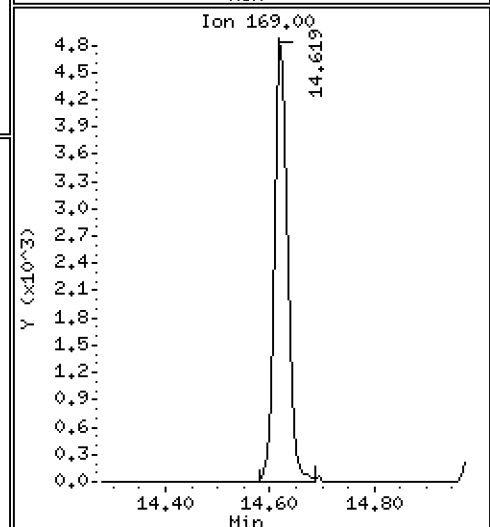
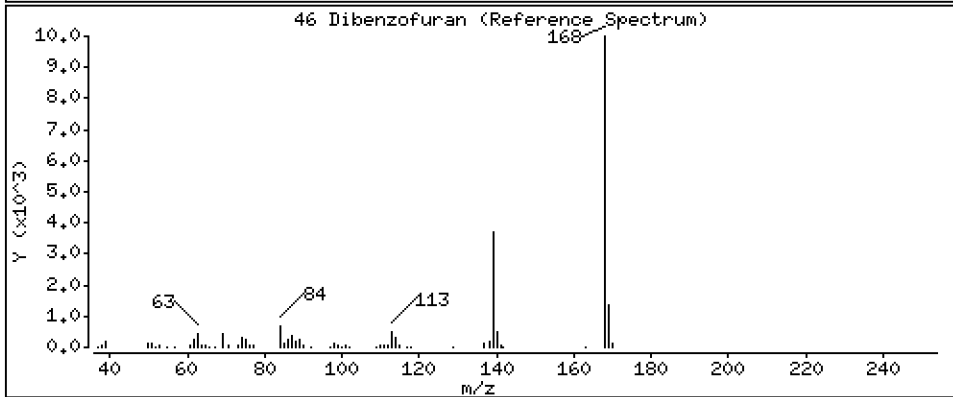
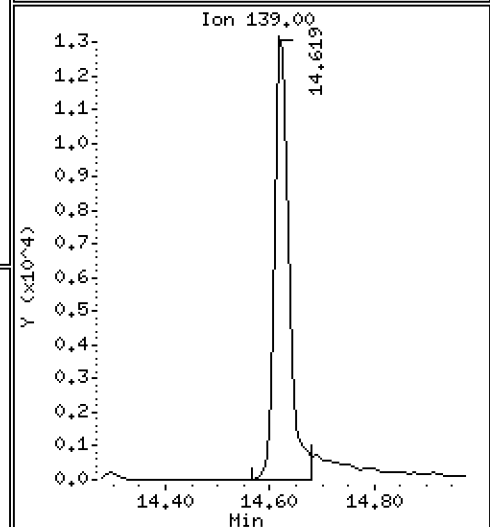
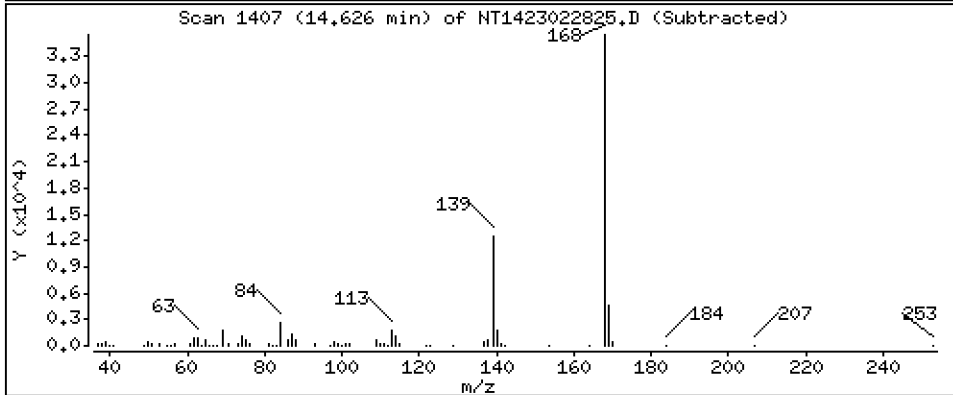
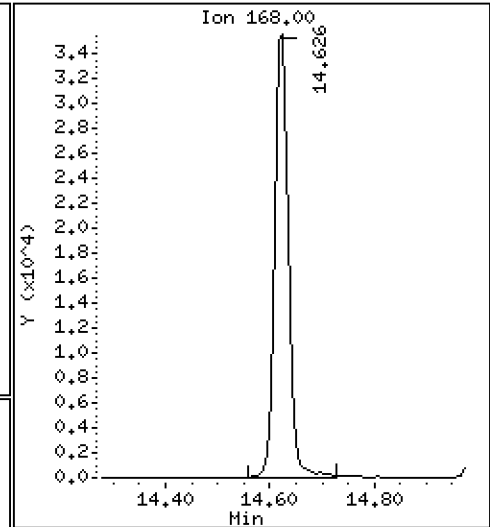
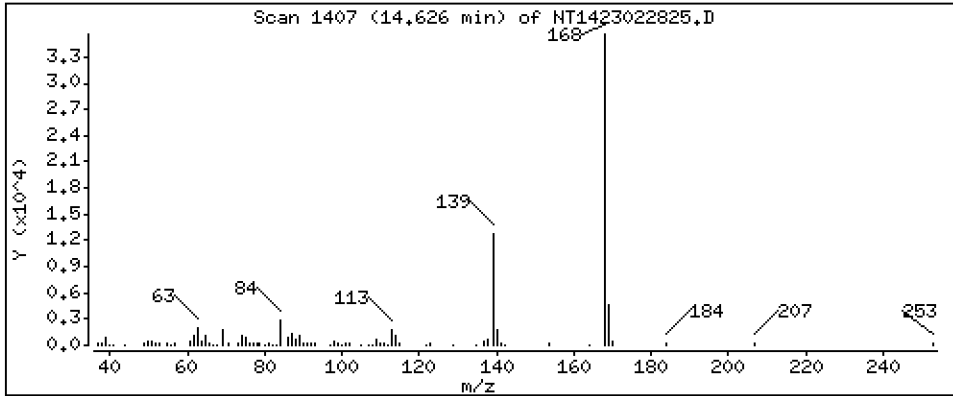
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 0,5081 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

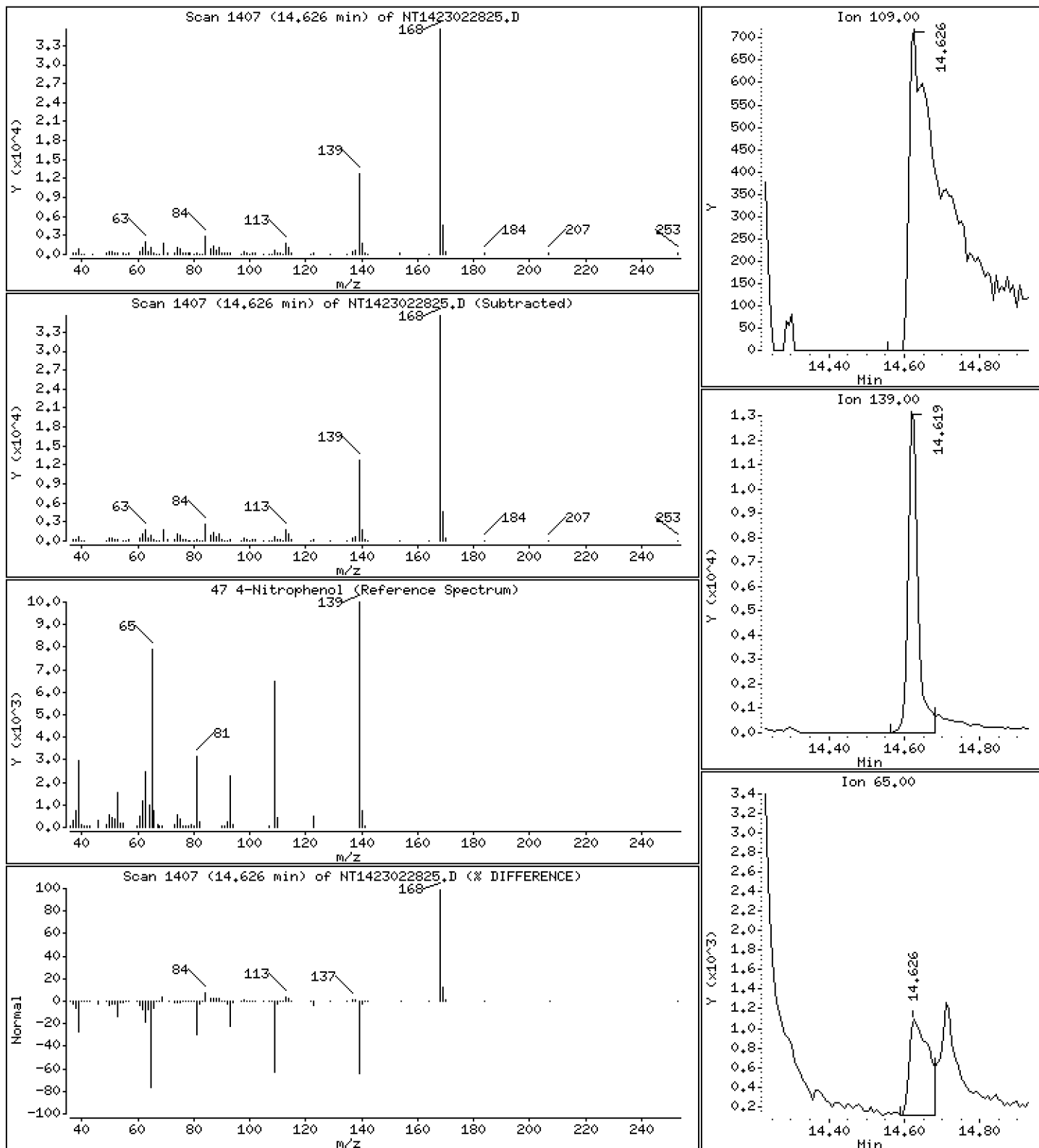
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

47 4-Nitrophenol

Concentration: 0,7283 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

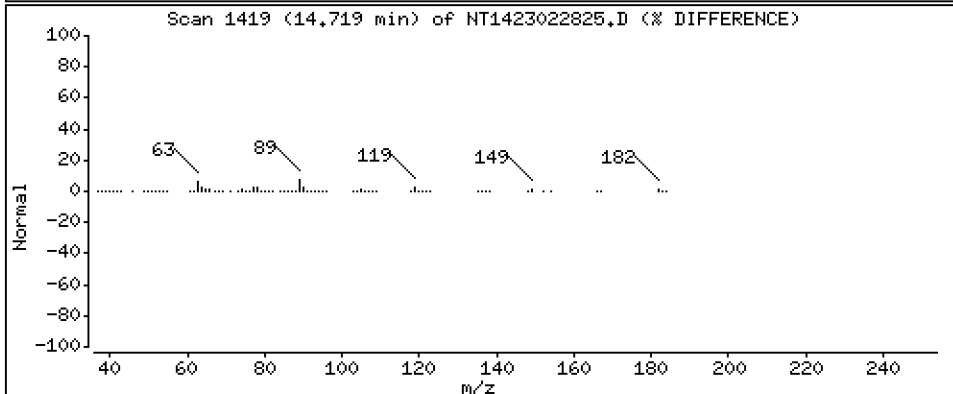
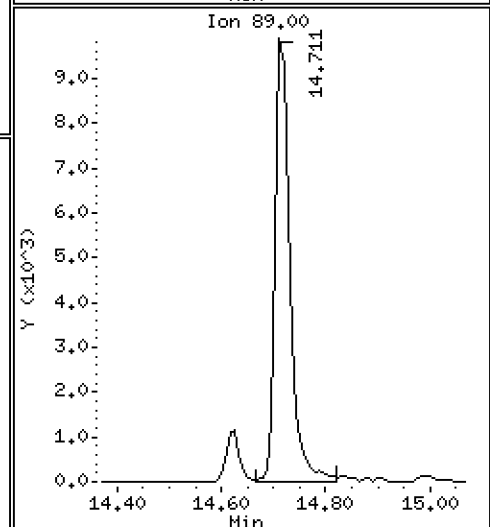
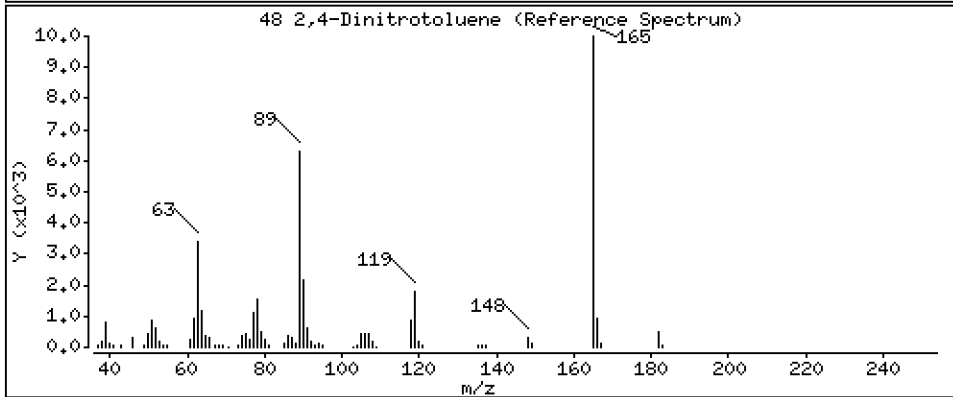
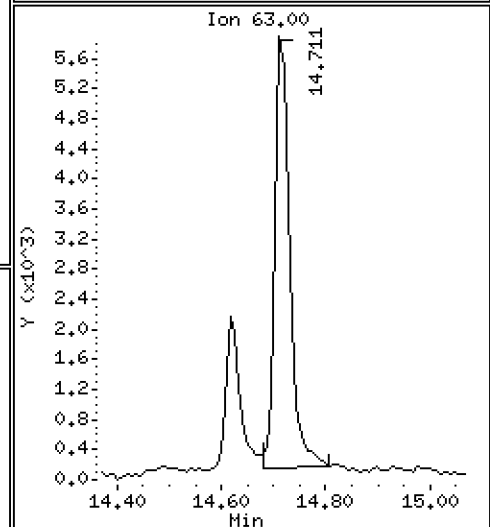
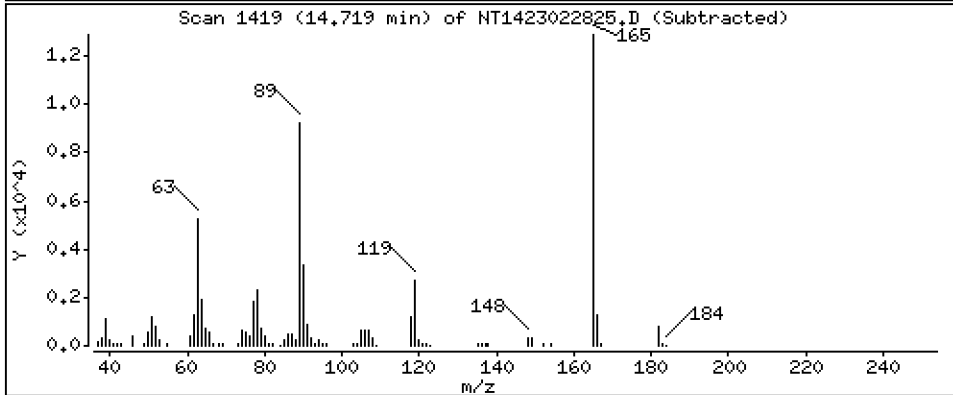
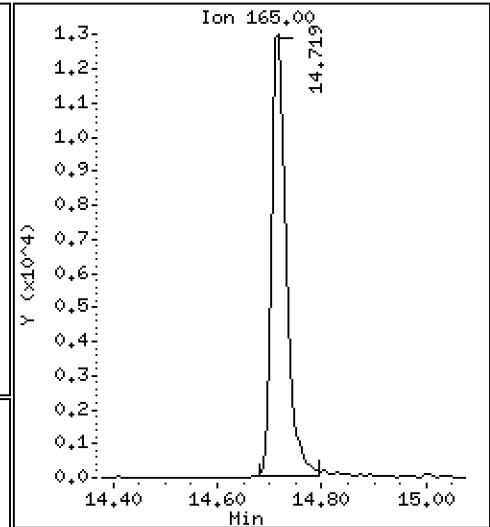
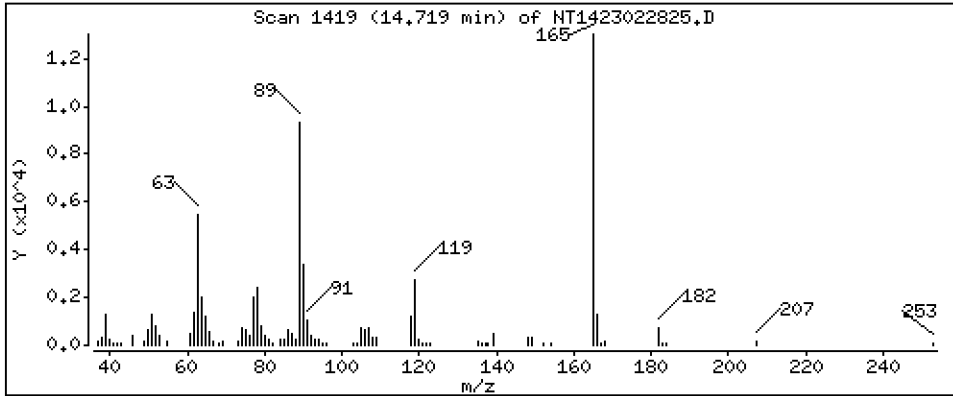
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

48 2,4-Dinitrotoluene

Concentration: 0.8625 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

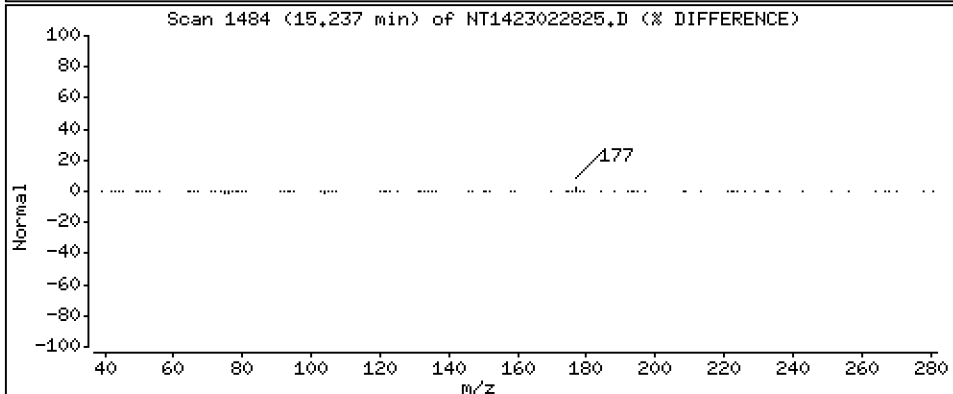
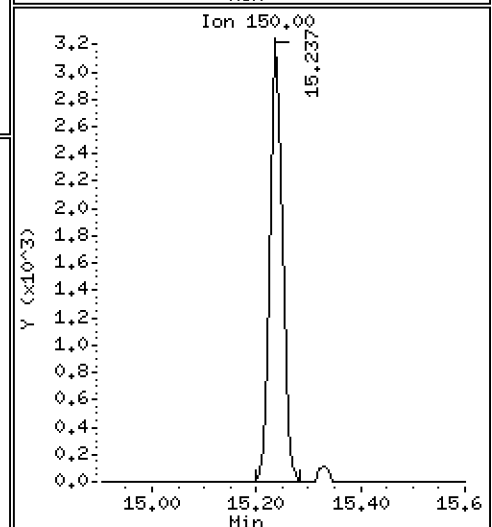
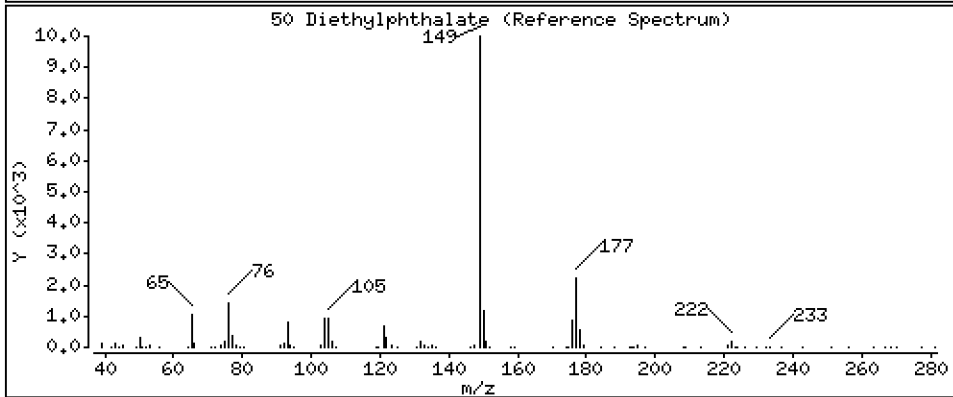
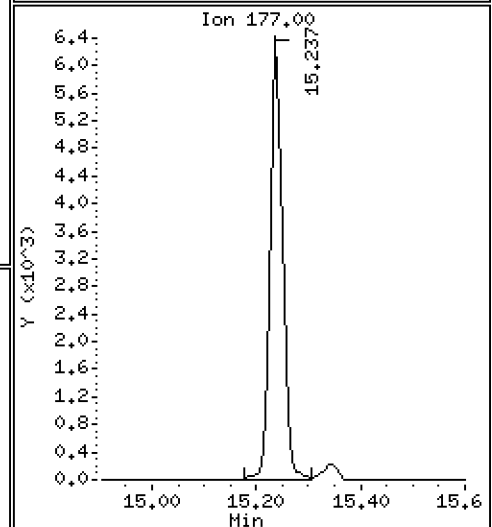
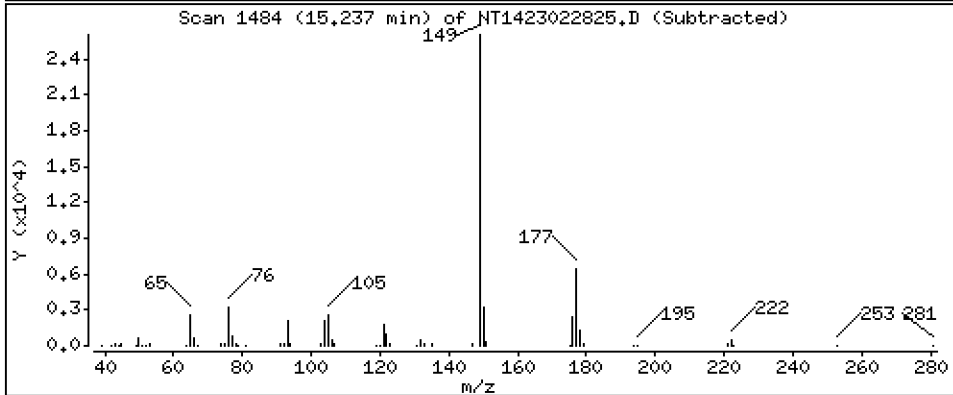
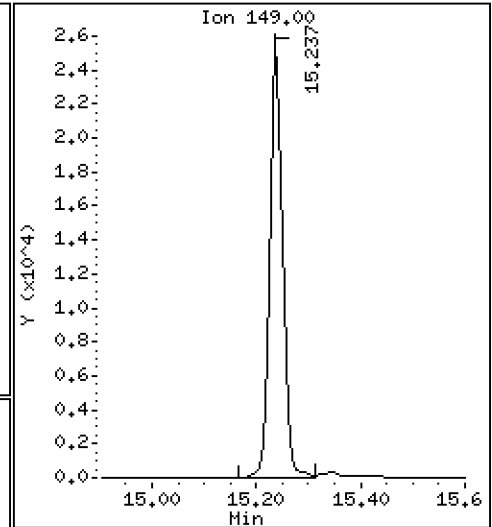
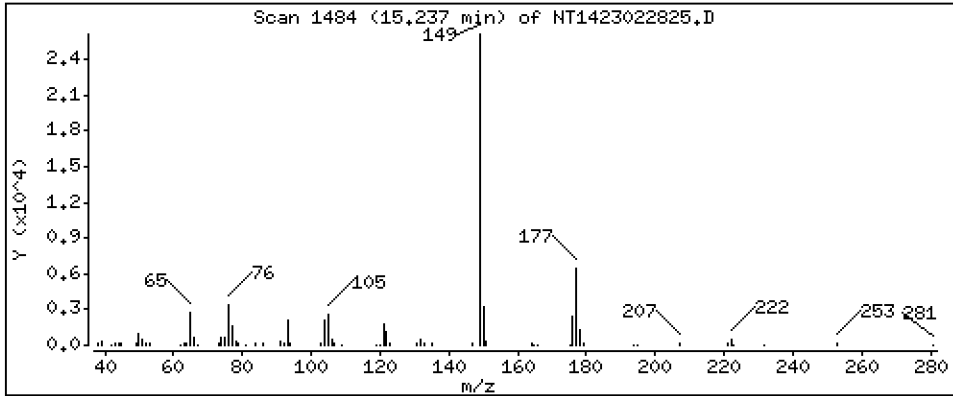
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 0,5434 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

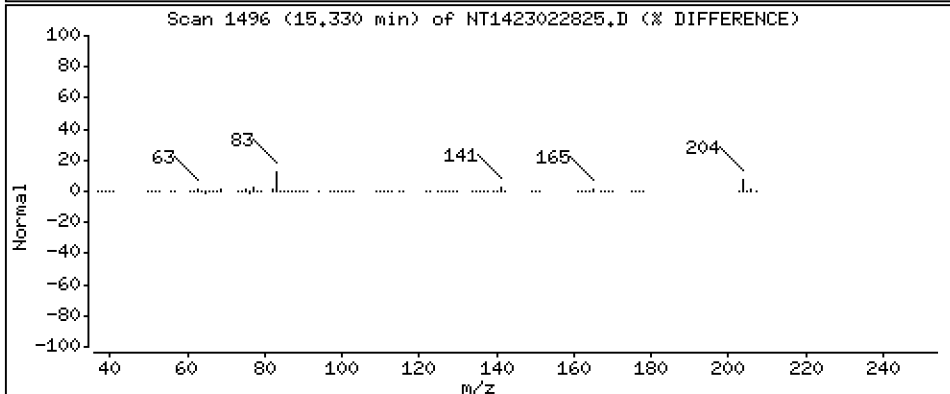
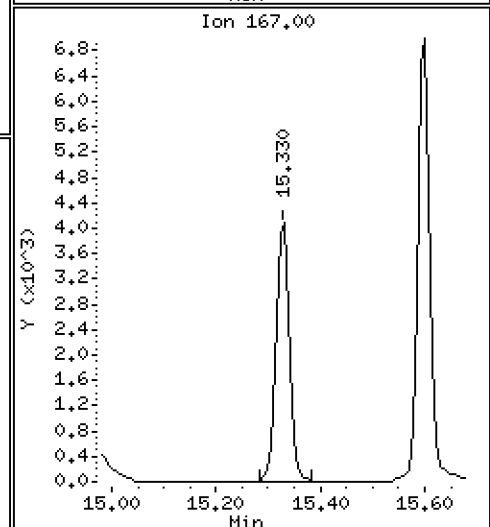
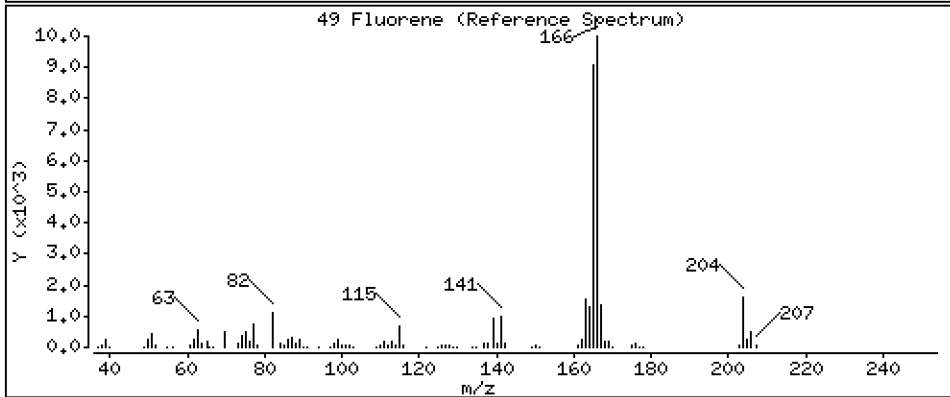
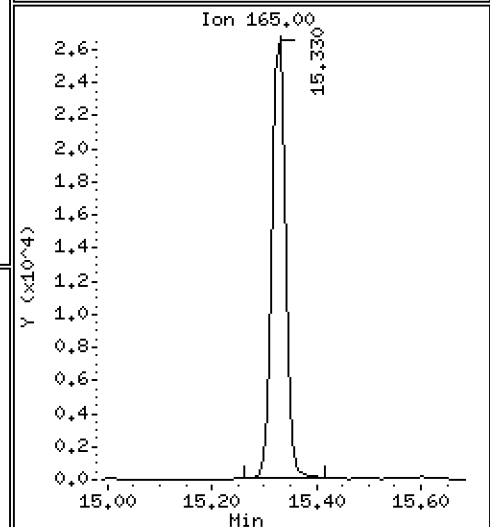
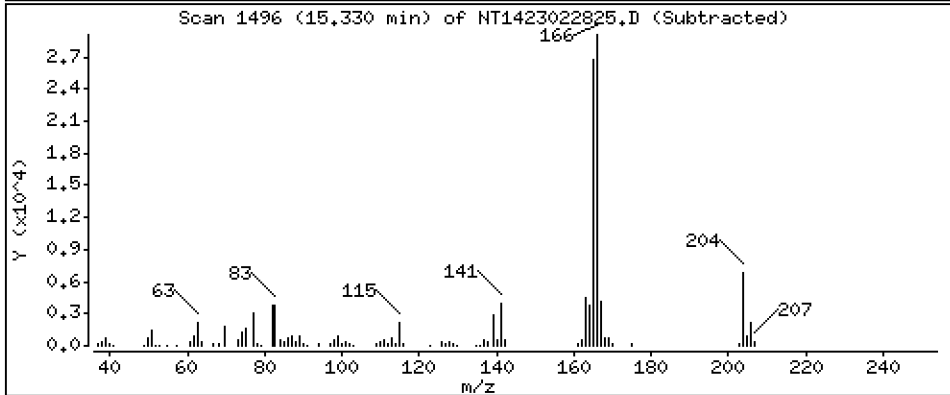
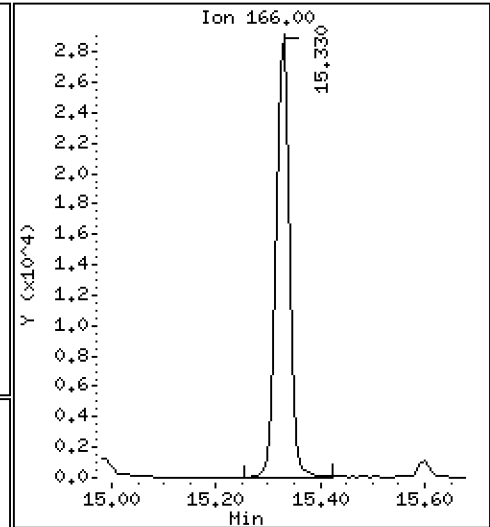
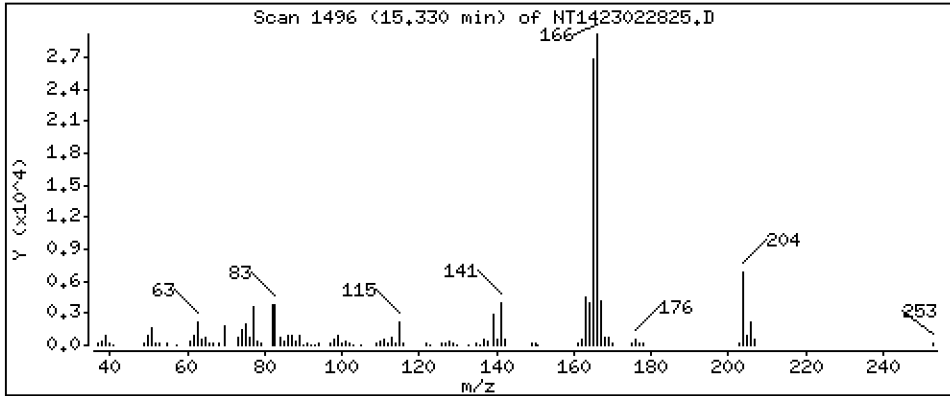
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 0,5354 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

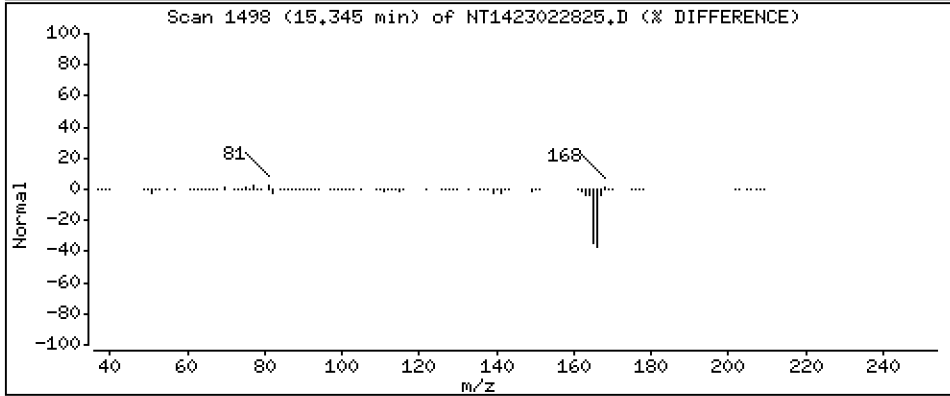
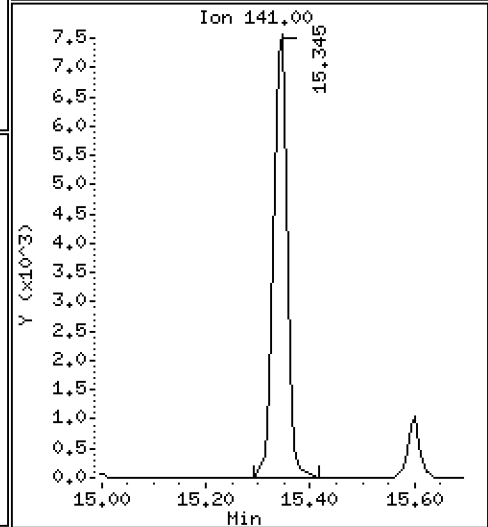
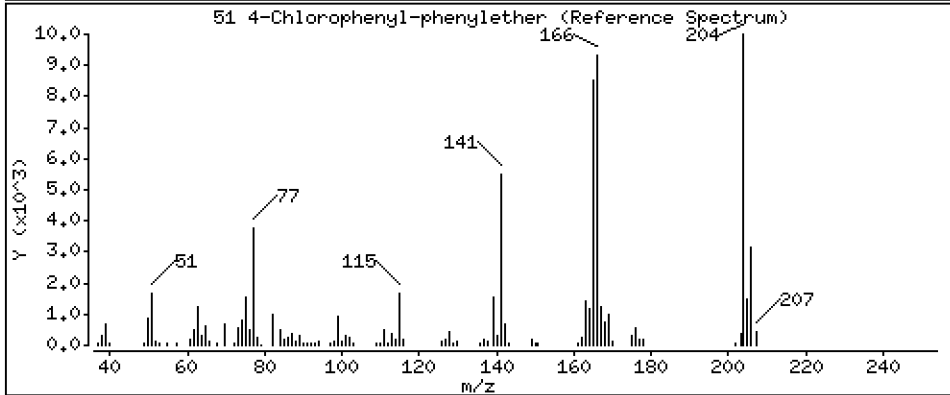
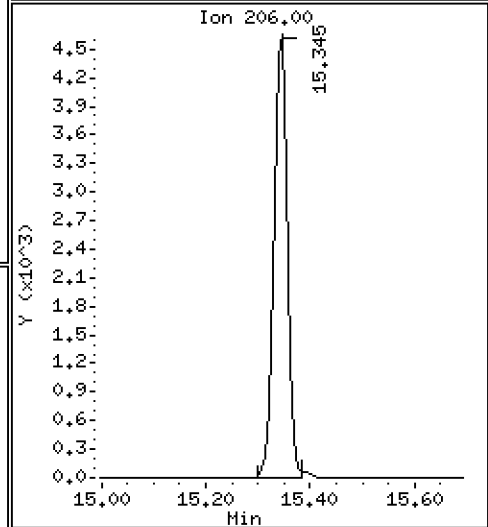
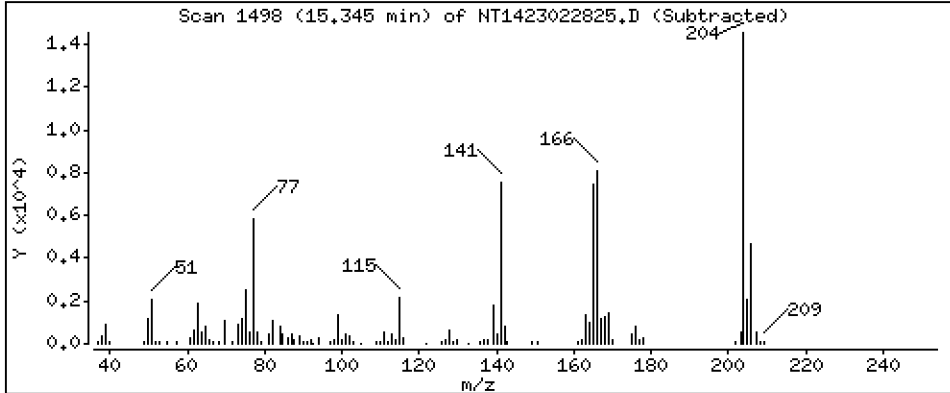
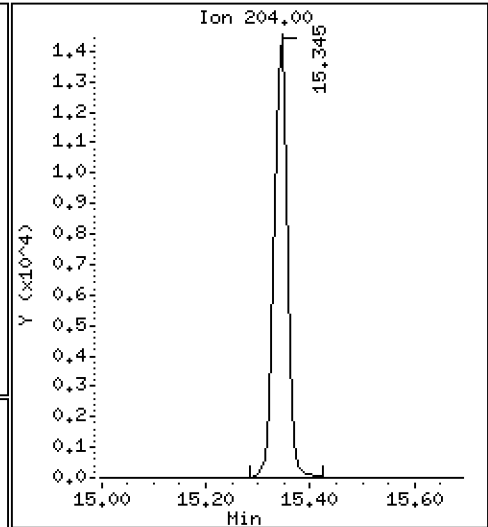
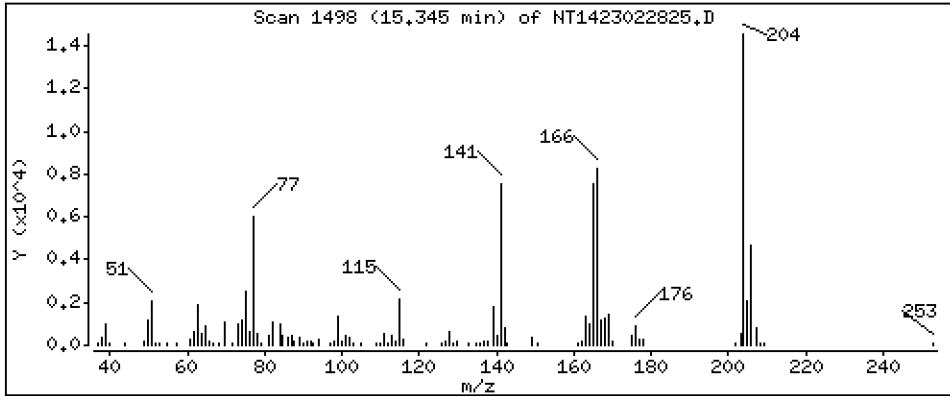
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 0,5072 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

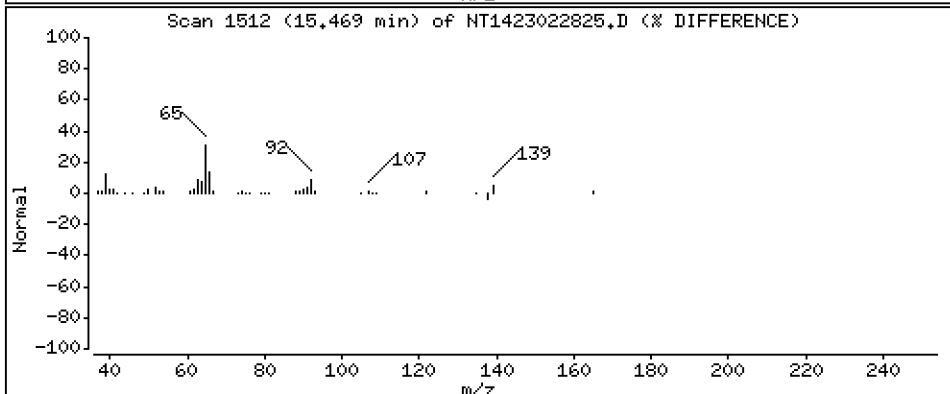
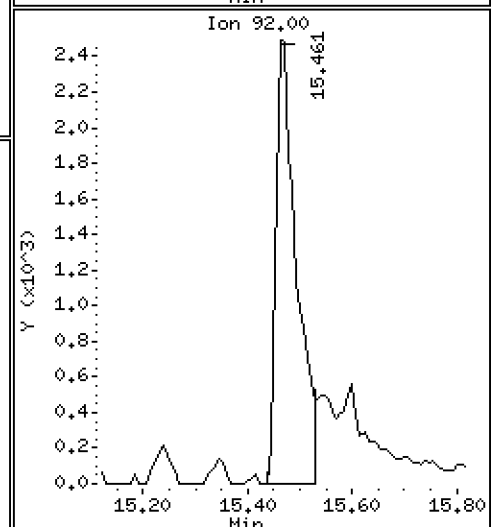
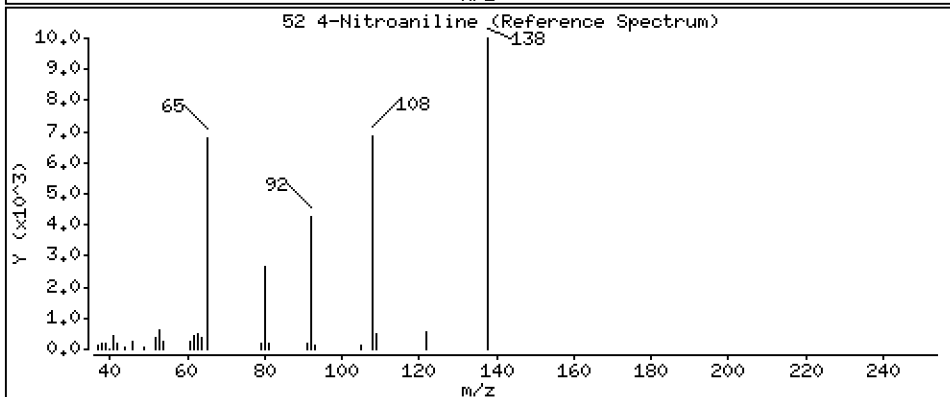
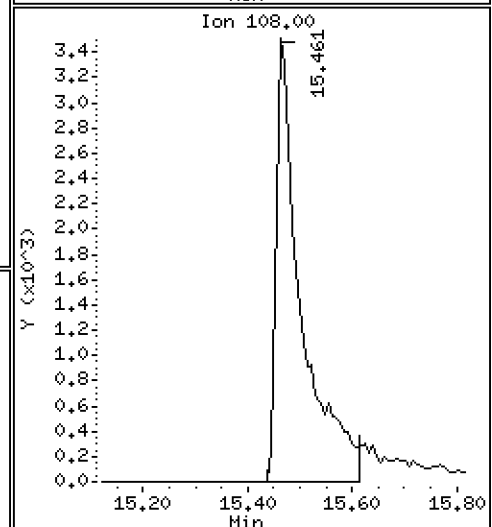
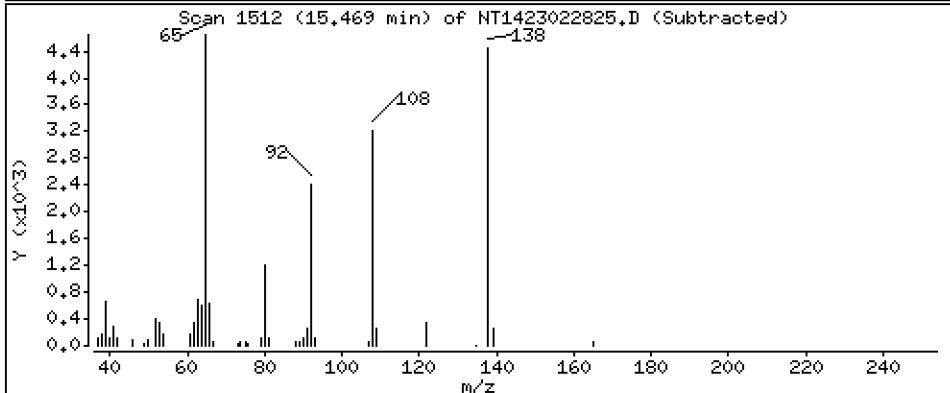
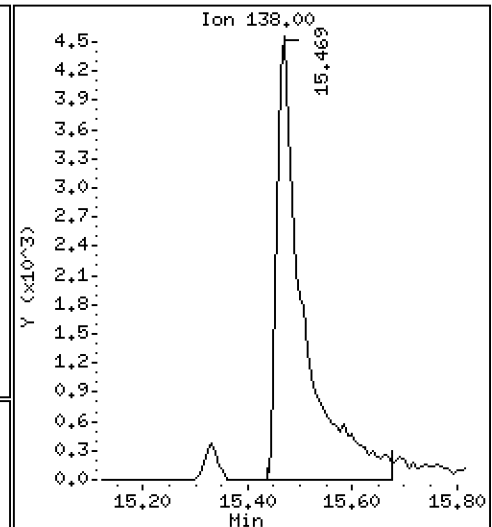
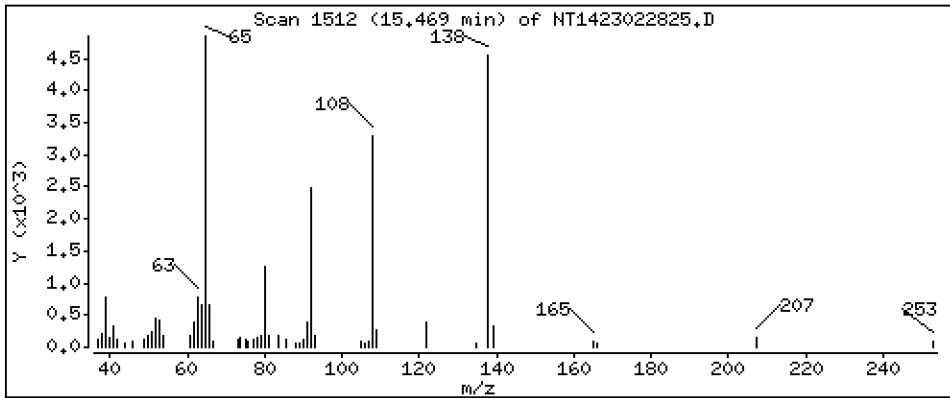
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

52 4-Nitroaniline

Concentration: 0,8070 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

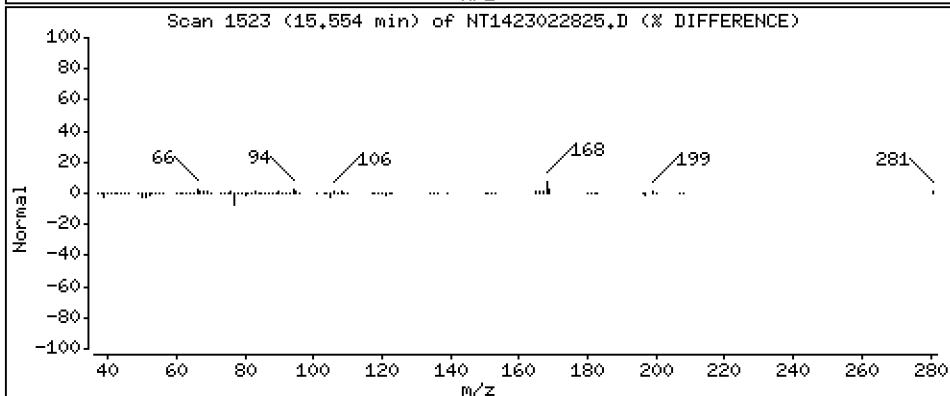
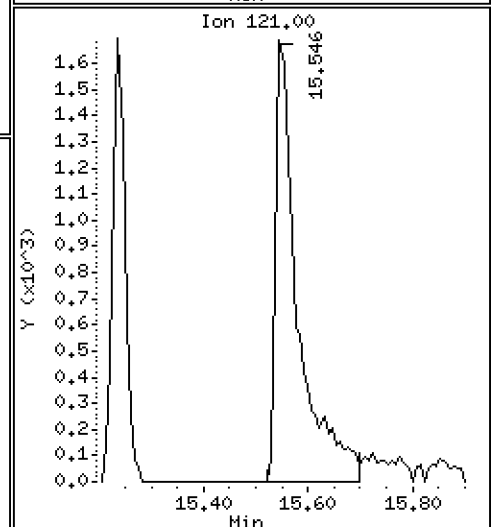
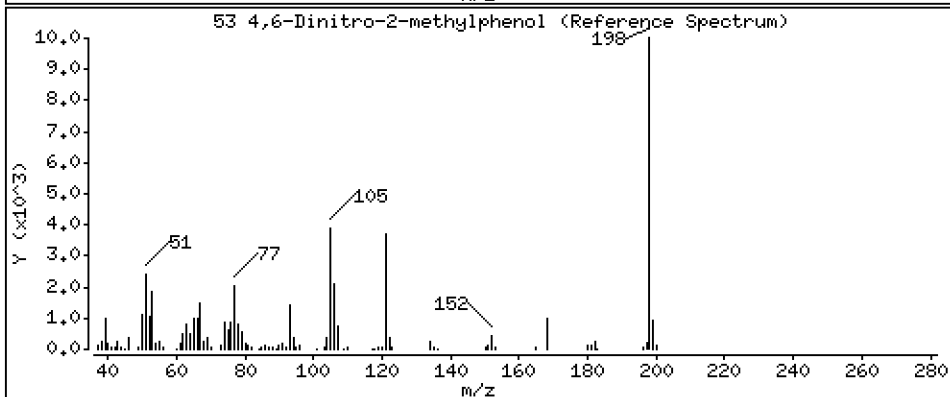
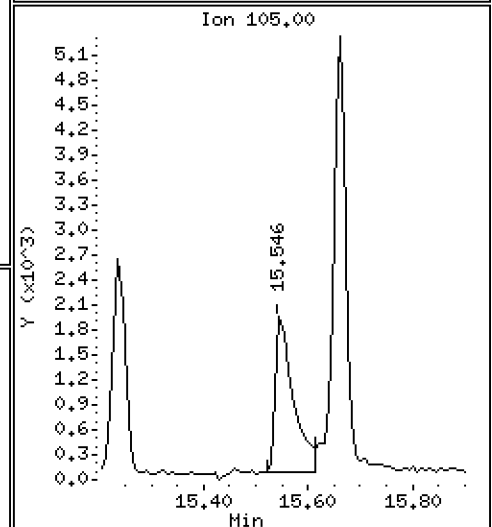
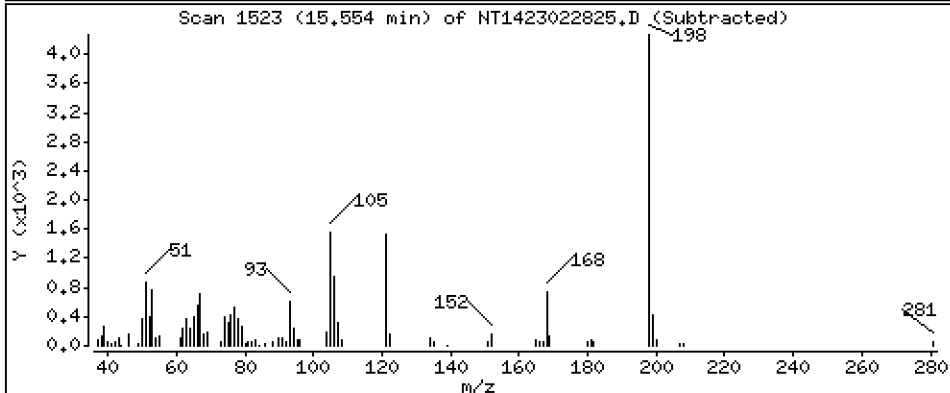
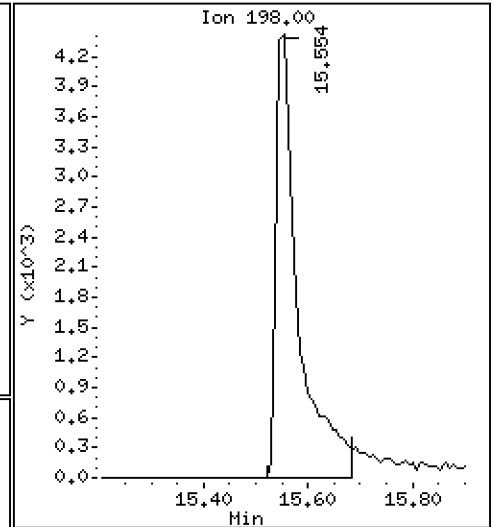
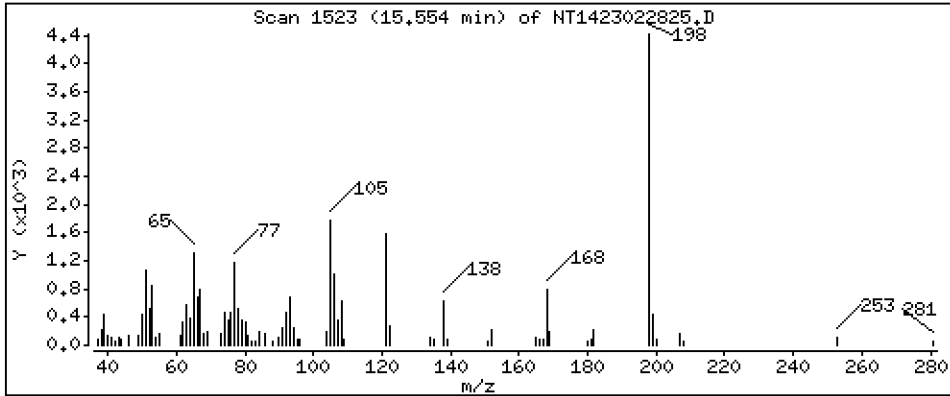
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

53 4,6-Dinitro-2-methylphenol

Concentration: 0,7654 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

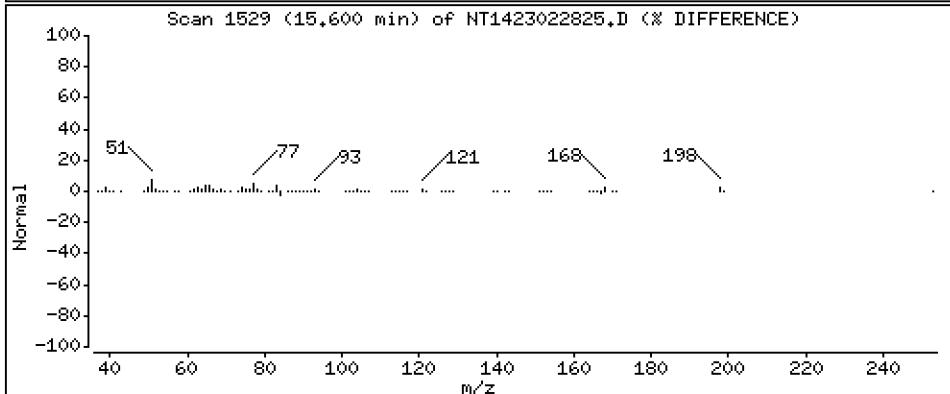
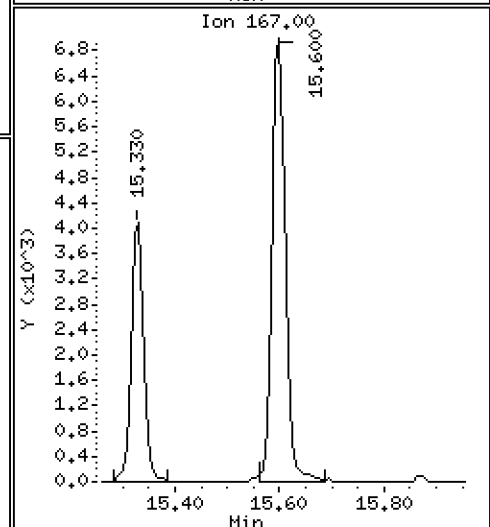
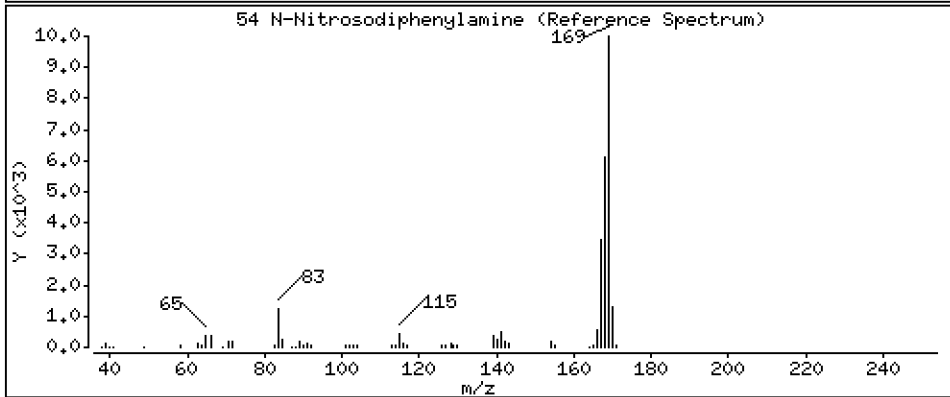
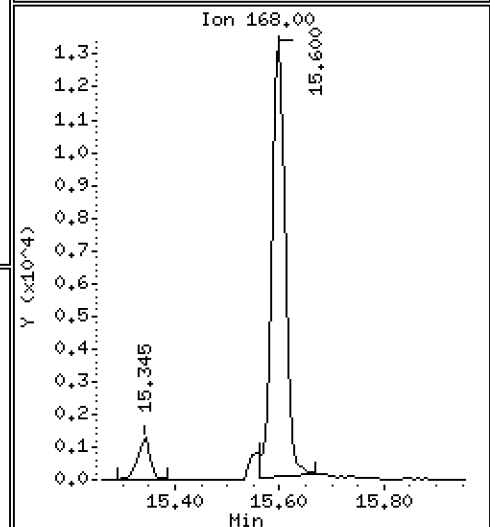
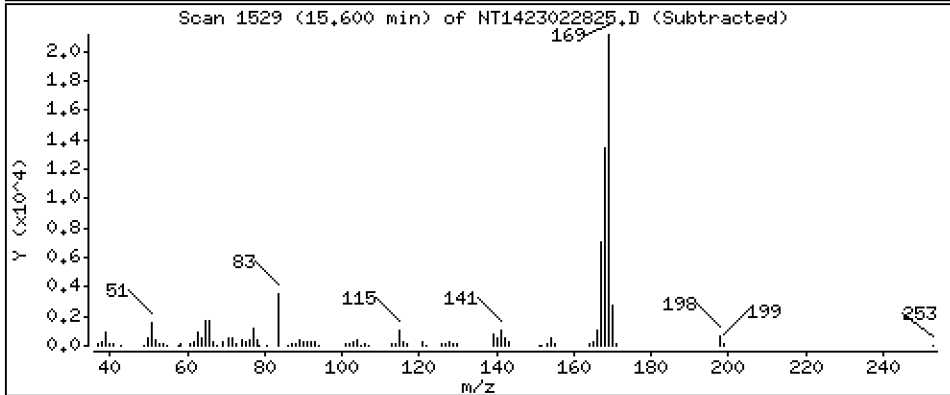
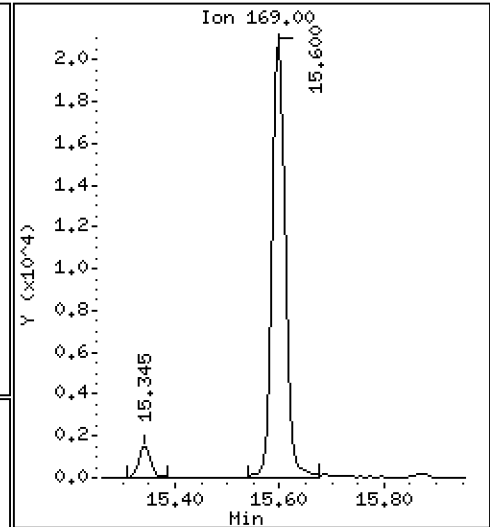
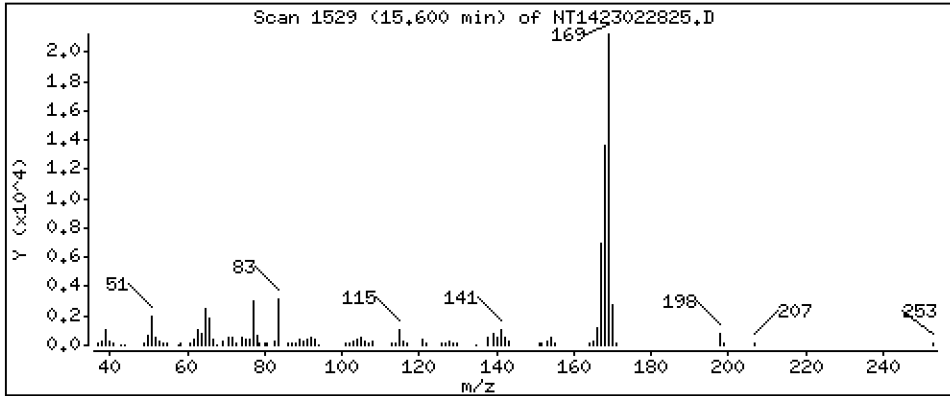
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

54 N-Nitrosodiphenylamine

Concentration: 0,5552 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

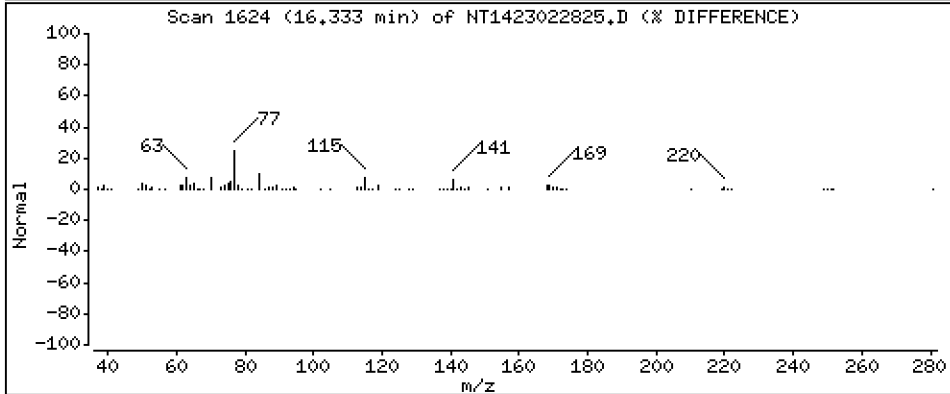
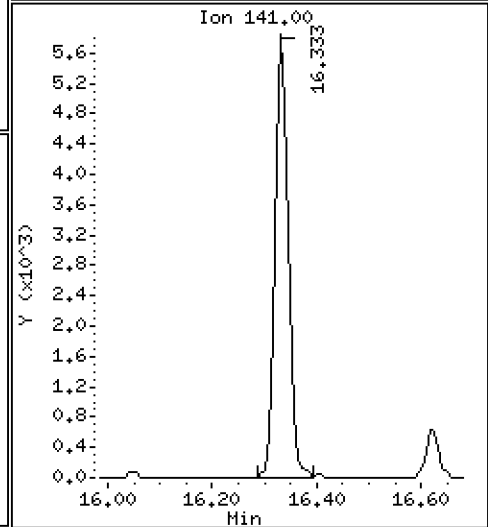
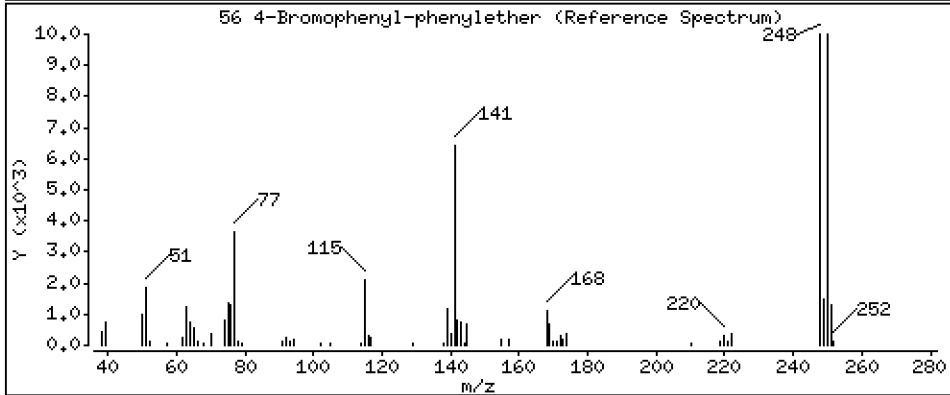
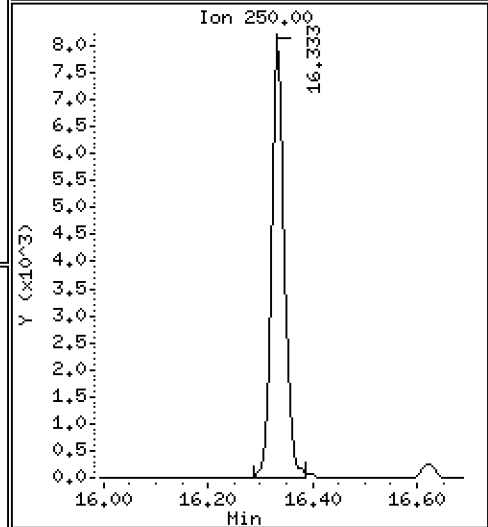
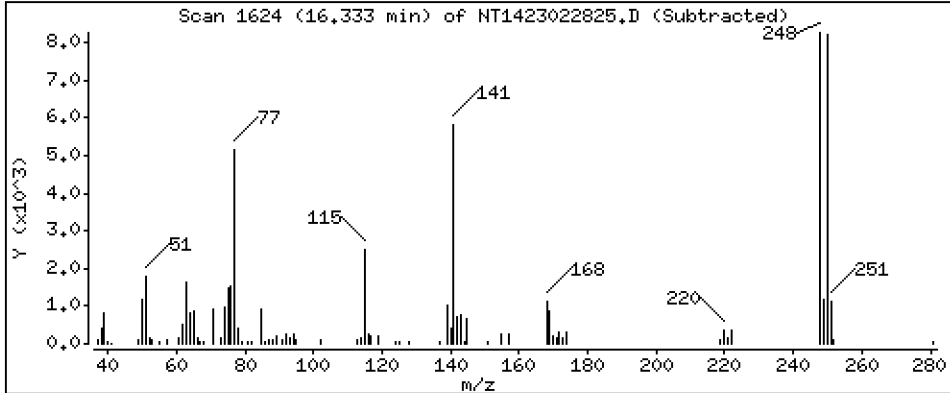
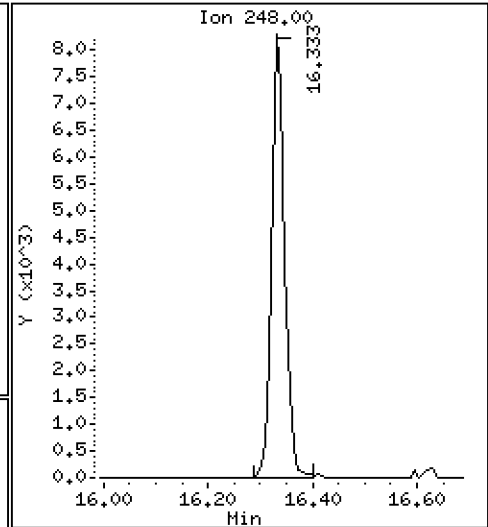
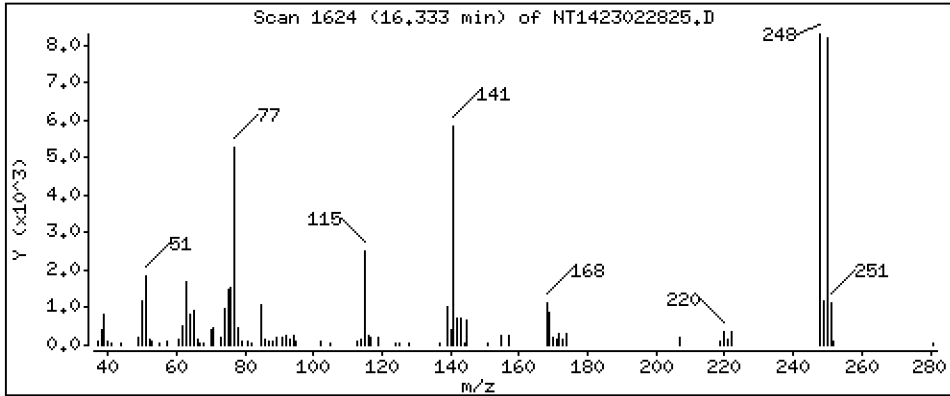
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 0,5135 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

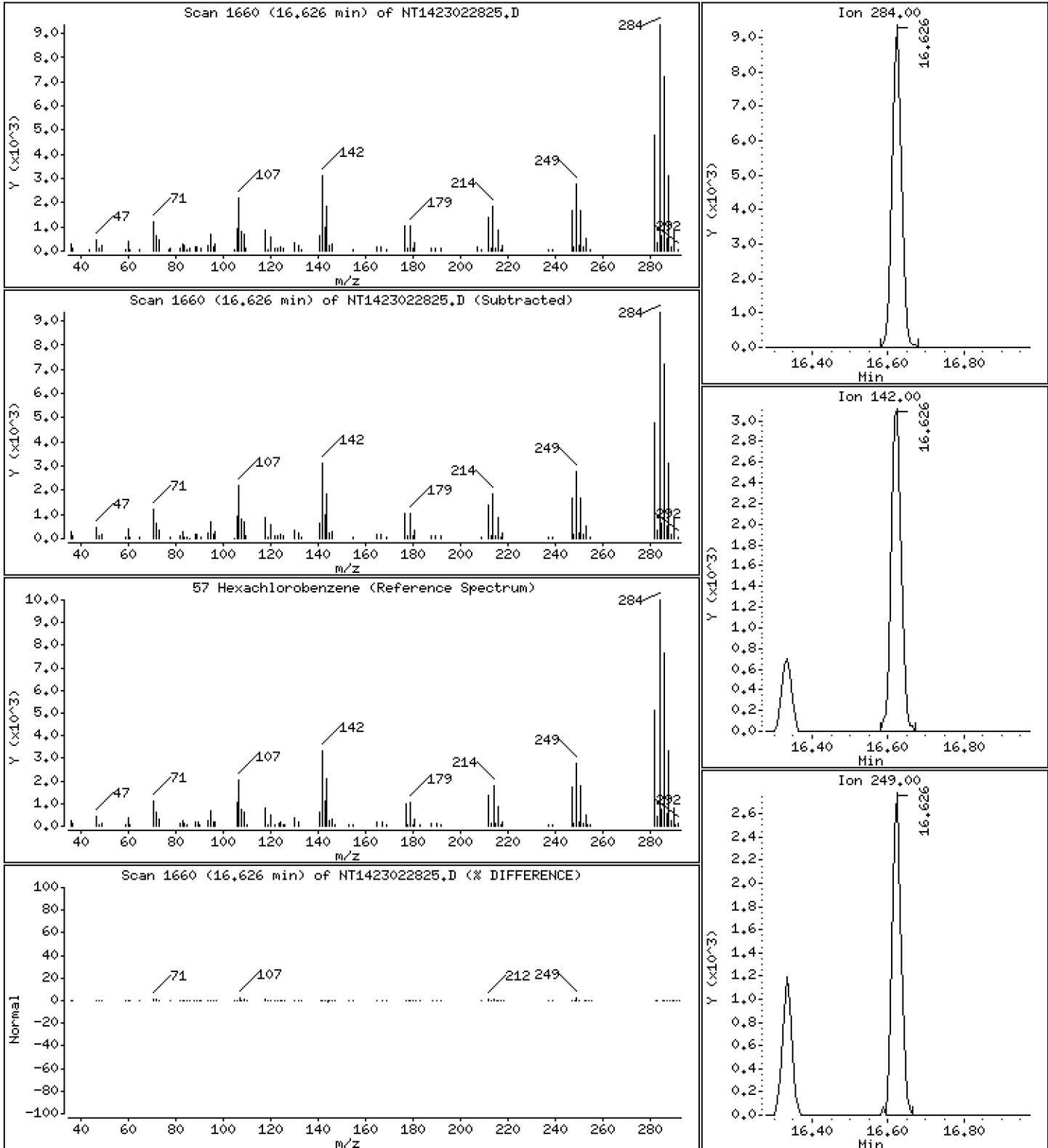
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

57 Hexachlorobenzene

Concentration: 0,5198 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

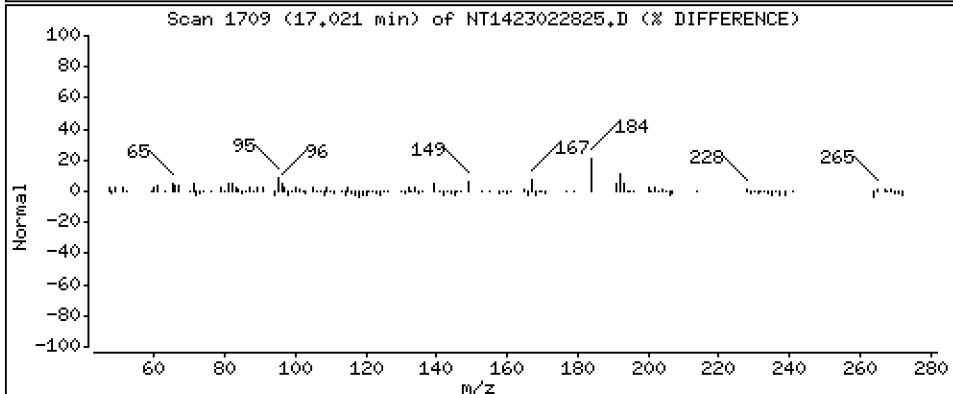
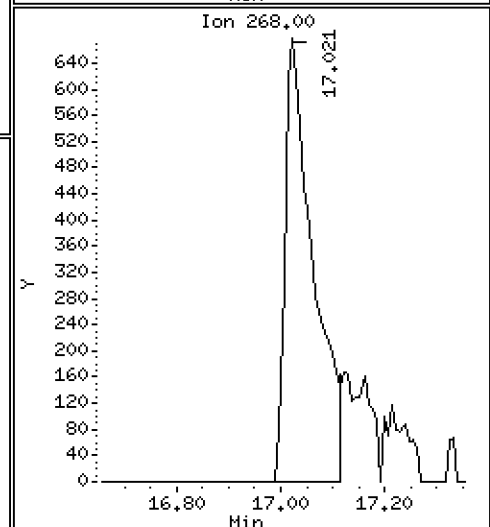
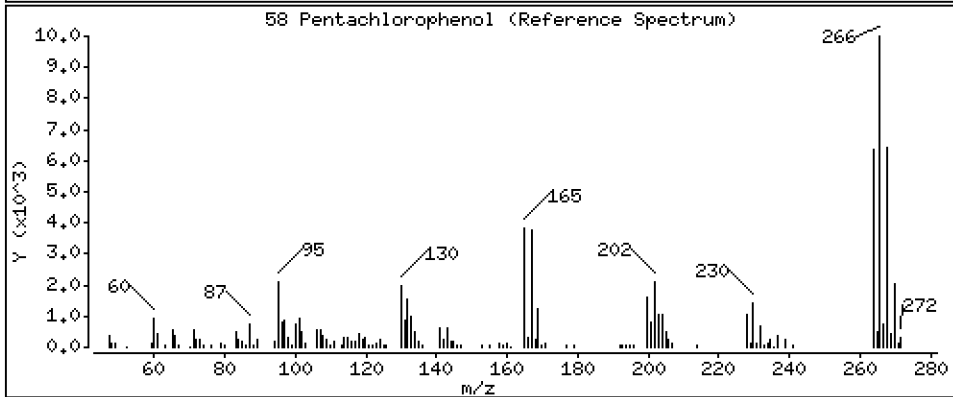
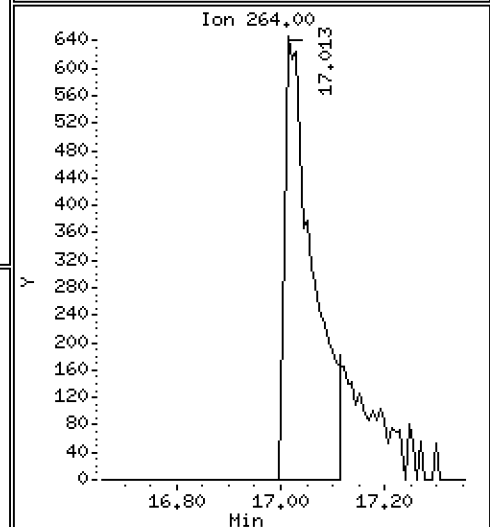
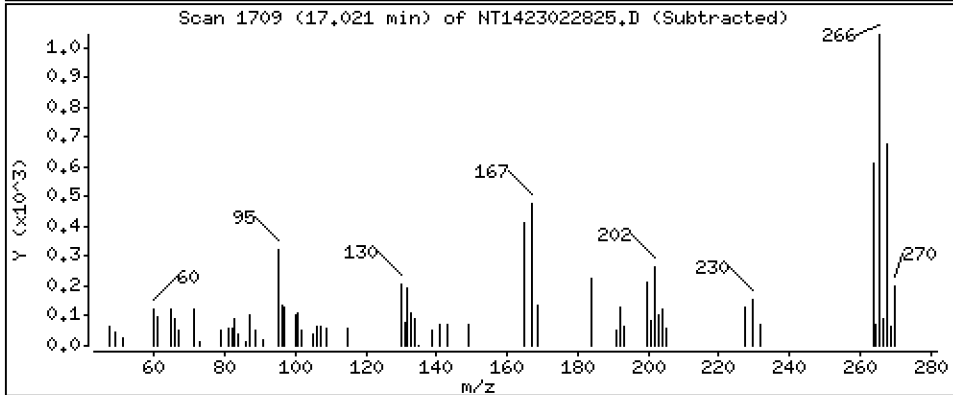
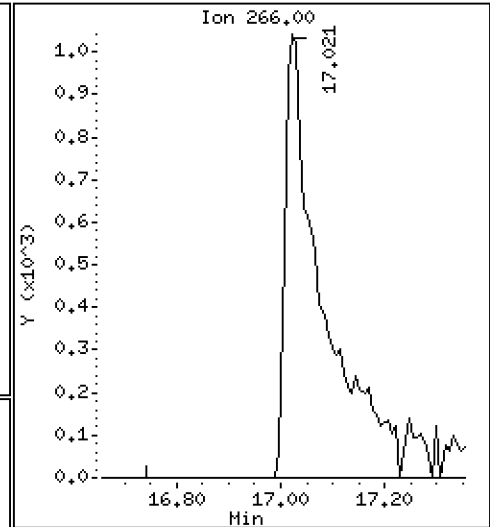
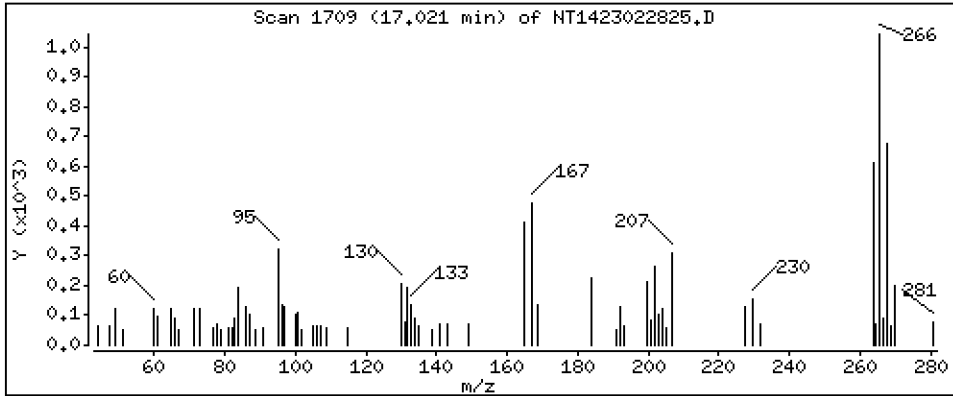
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 0,4279 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

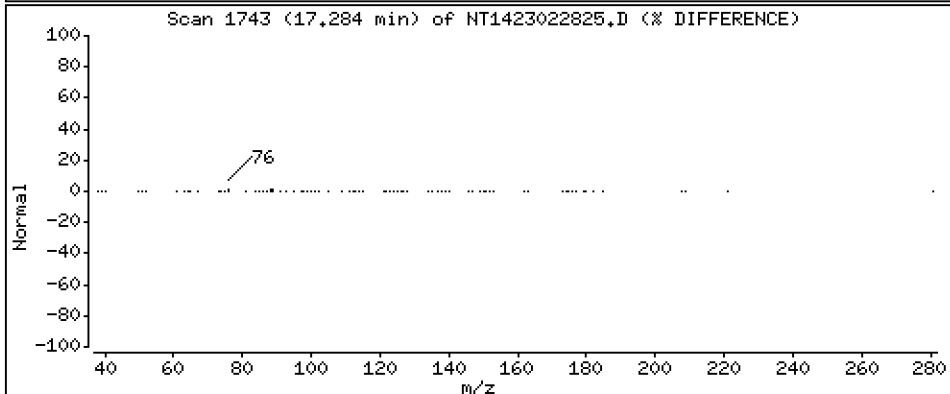
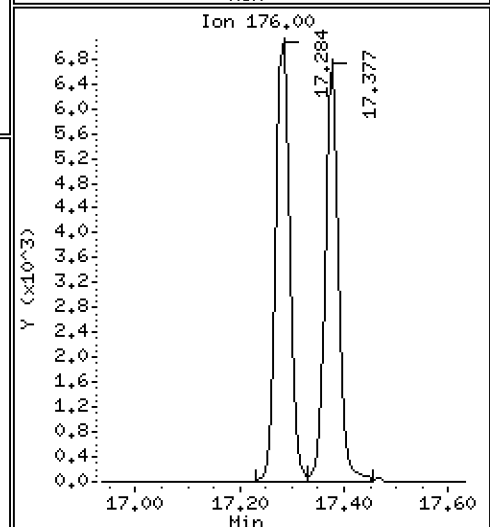
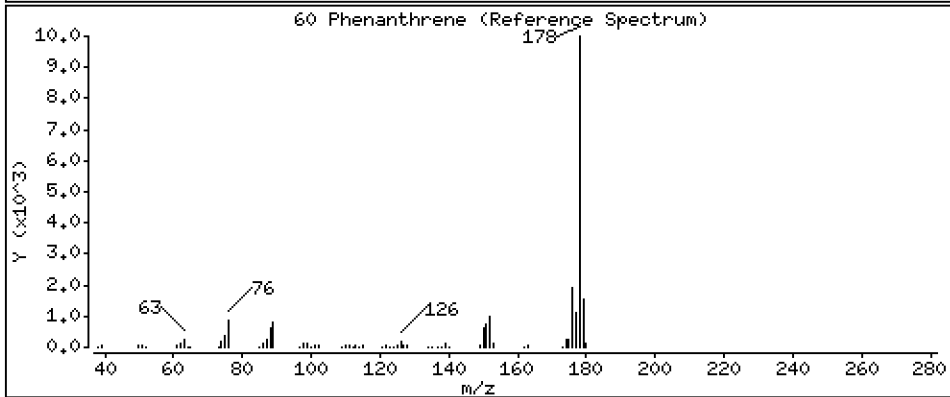
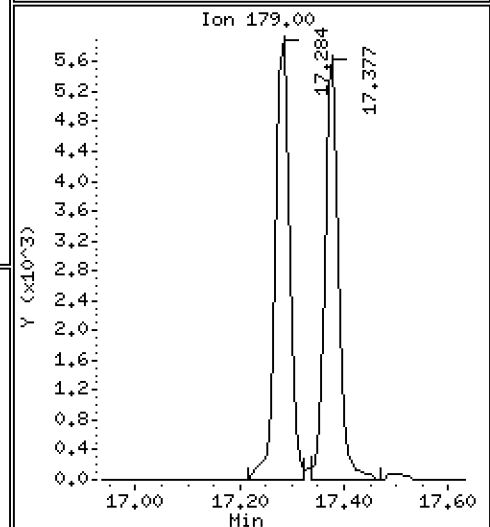
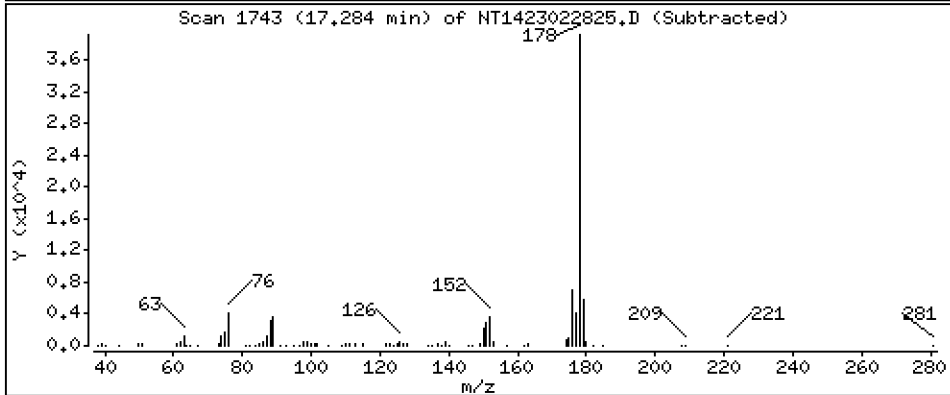
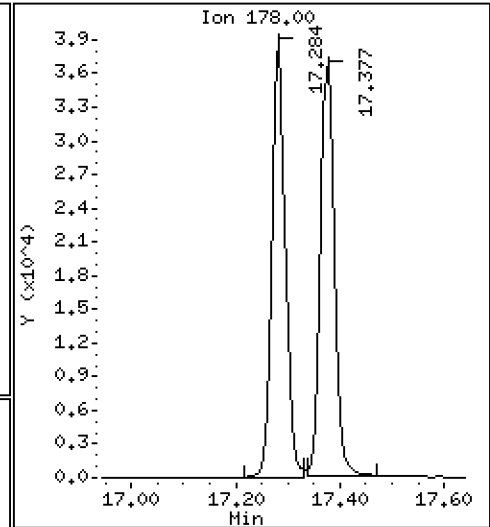
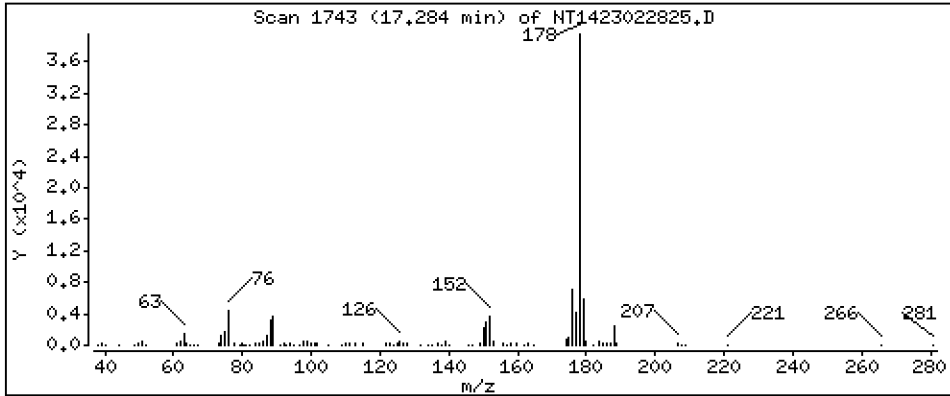
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 0,5125 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

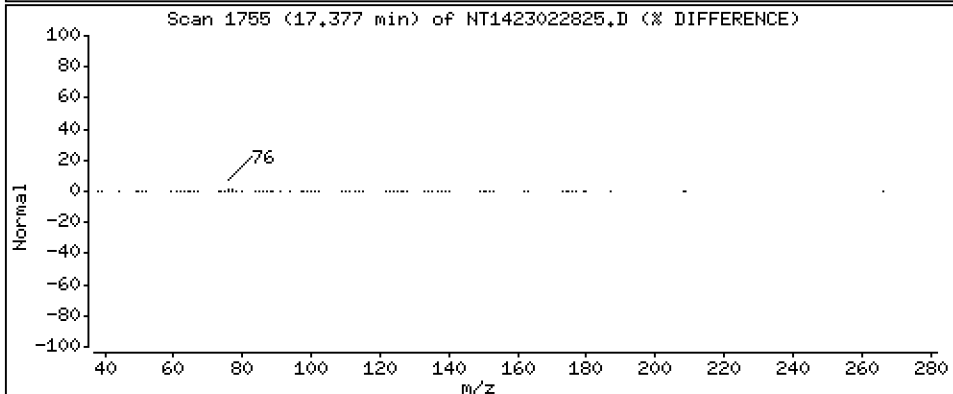
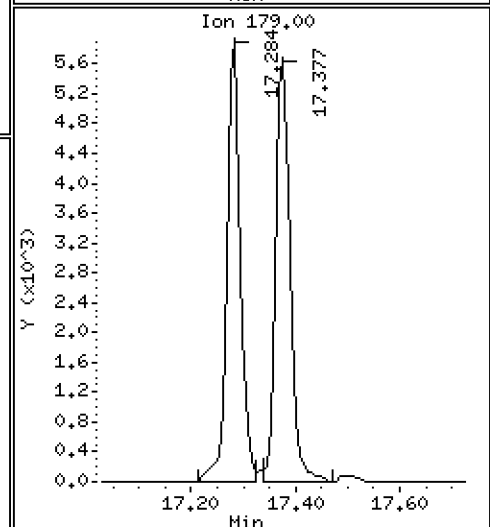
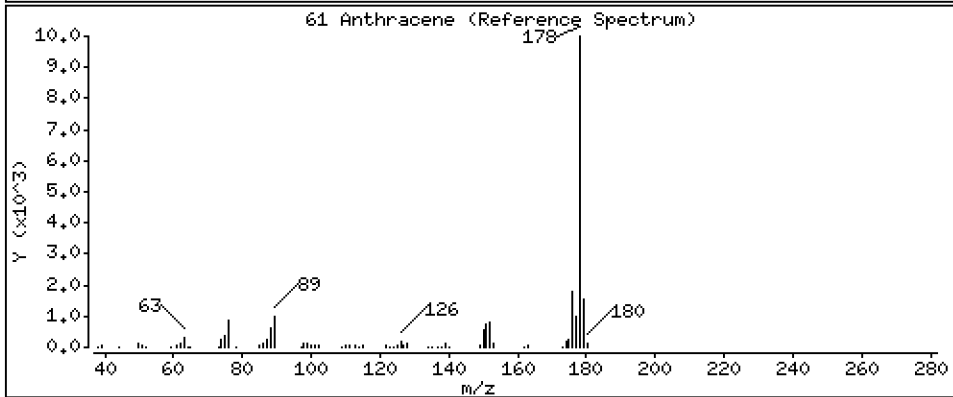
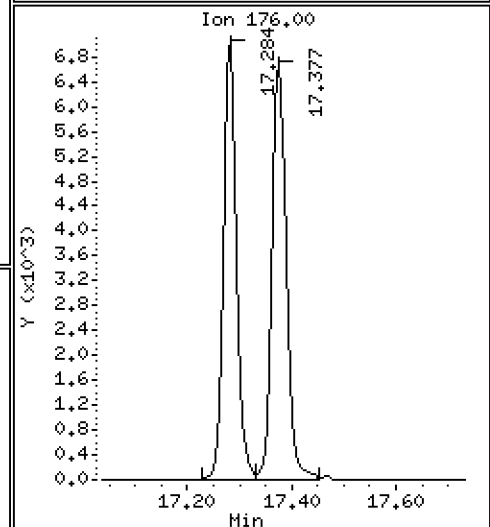
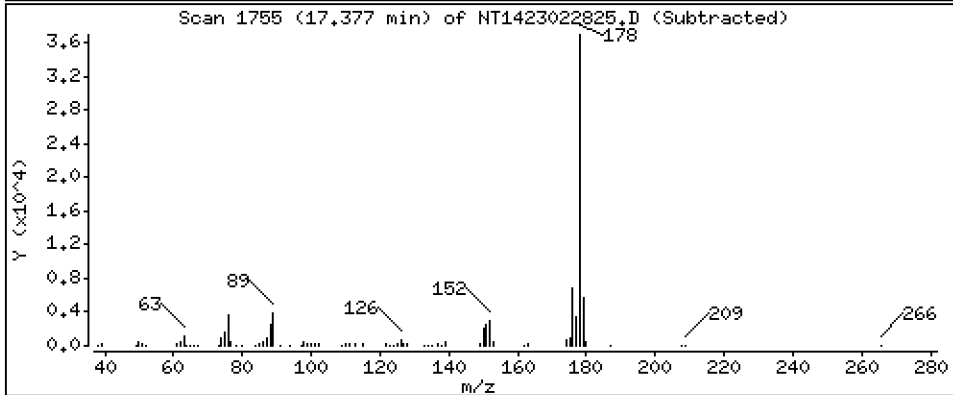
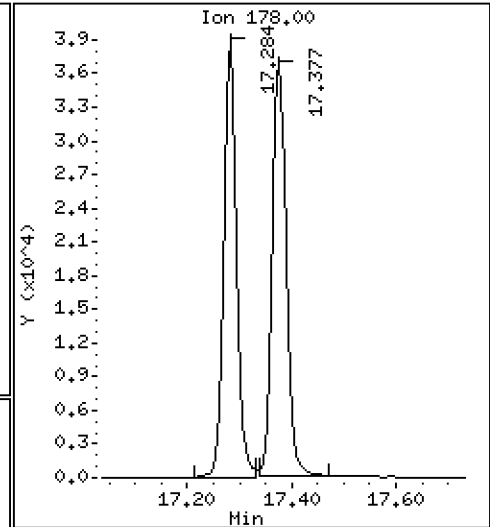
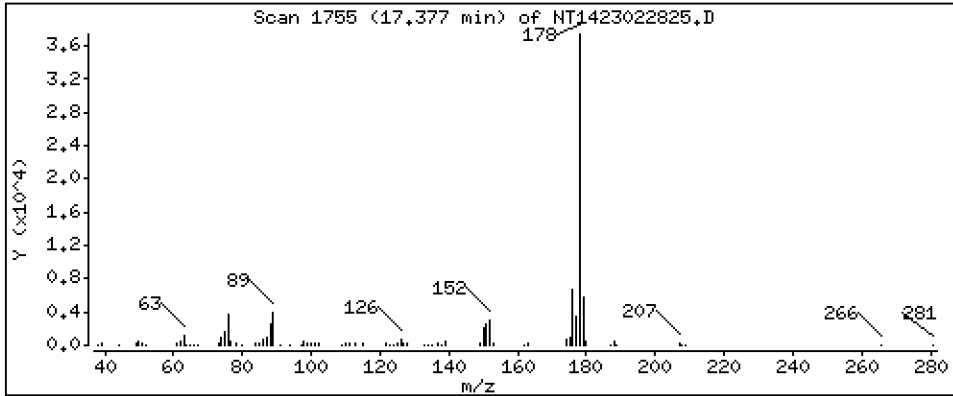
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 0,5189 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

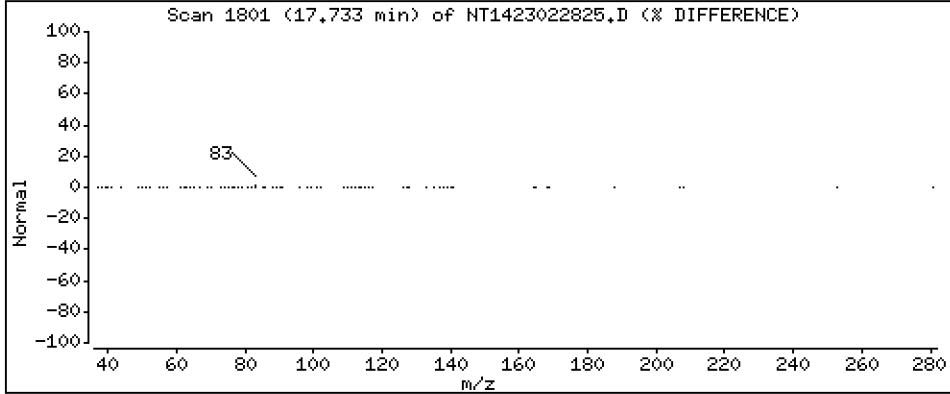
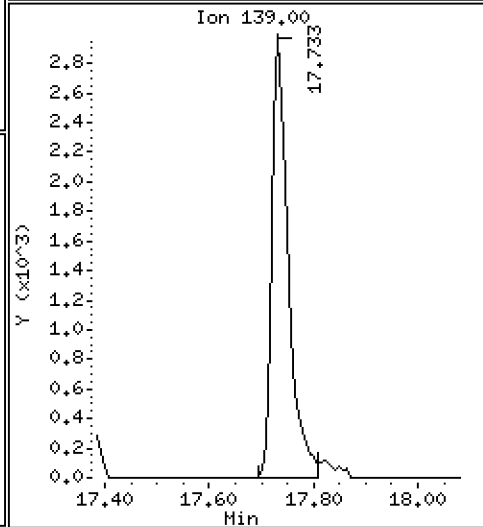
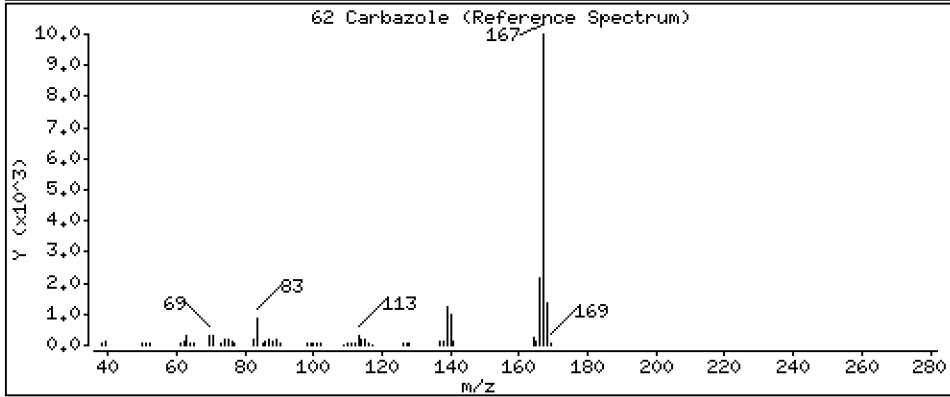
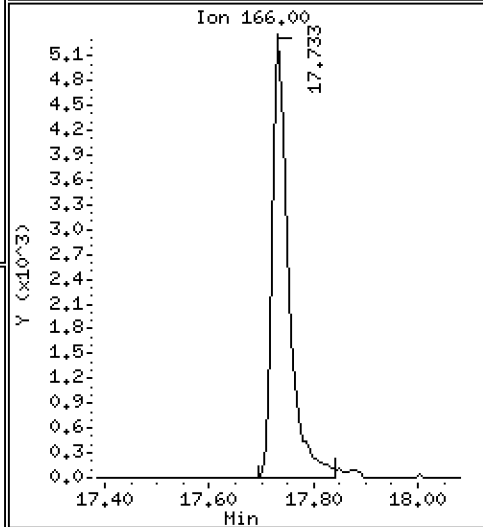
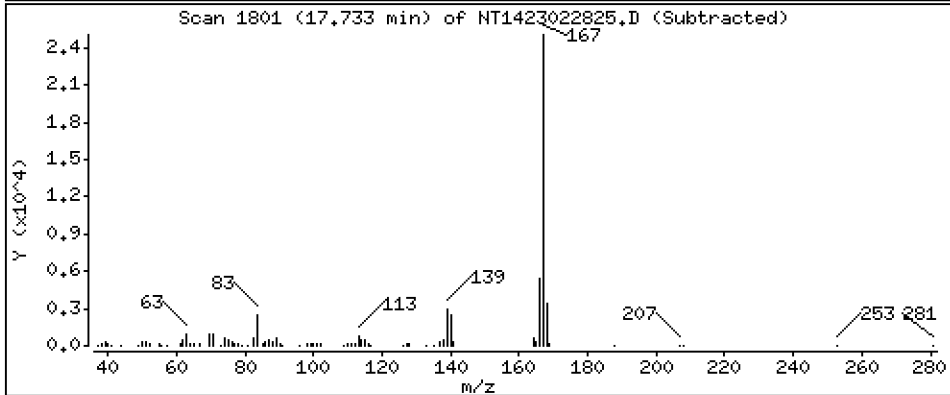
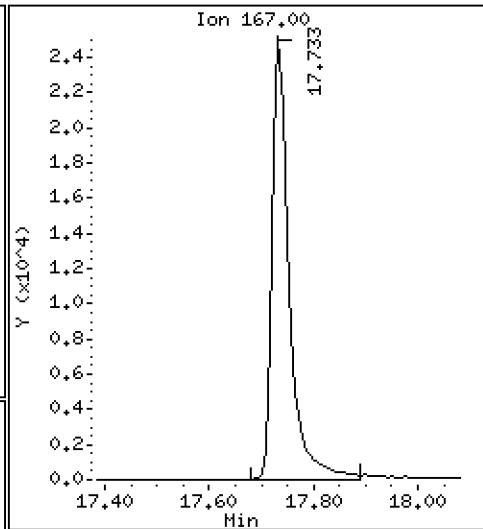
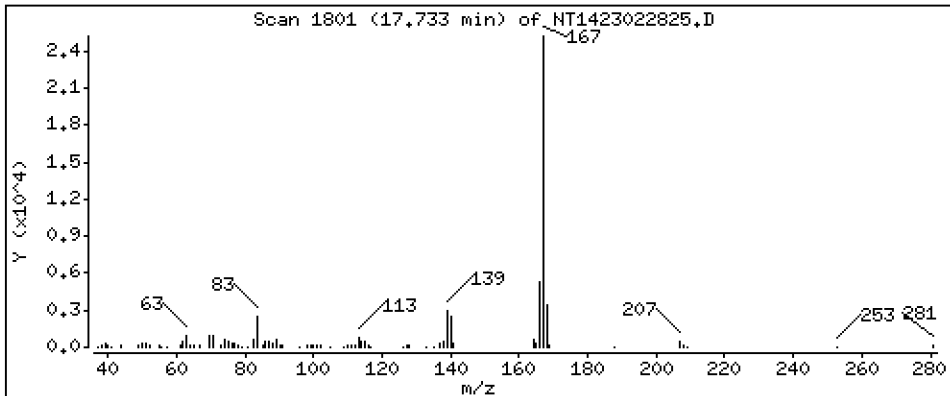
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 0,4950 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

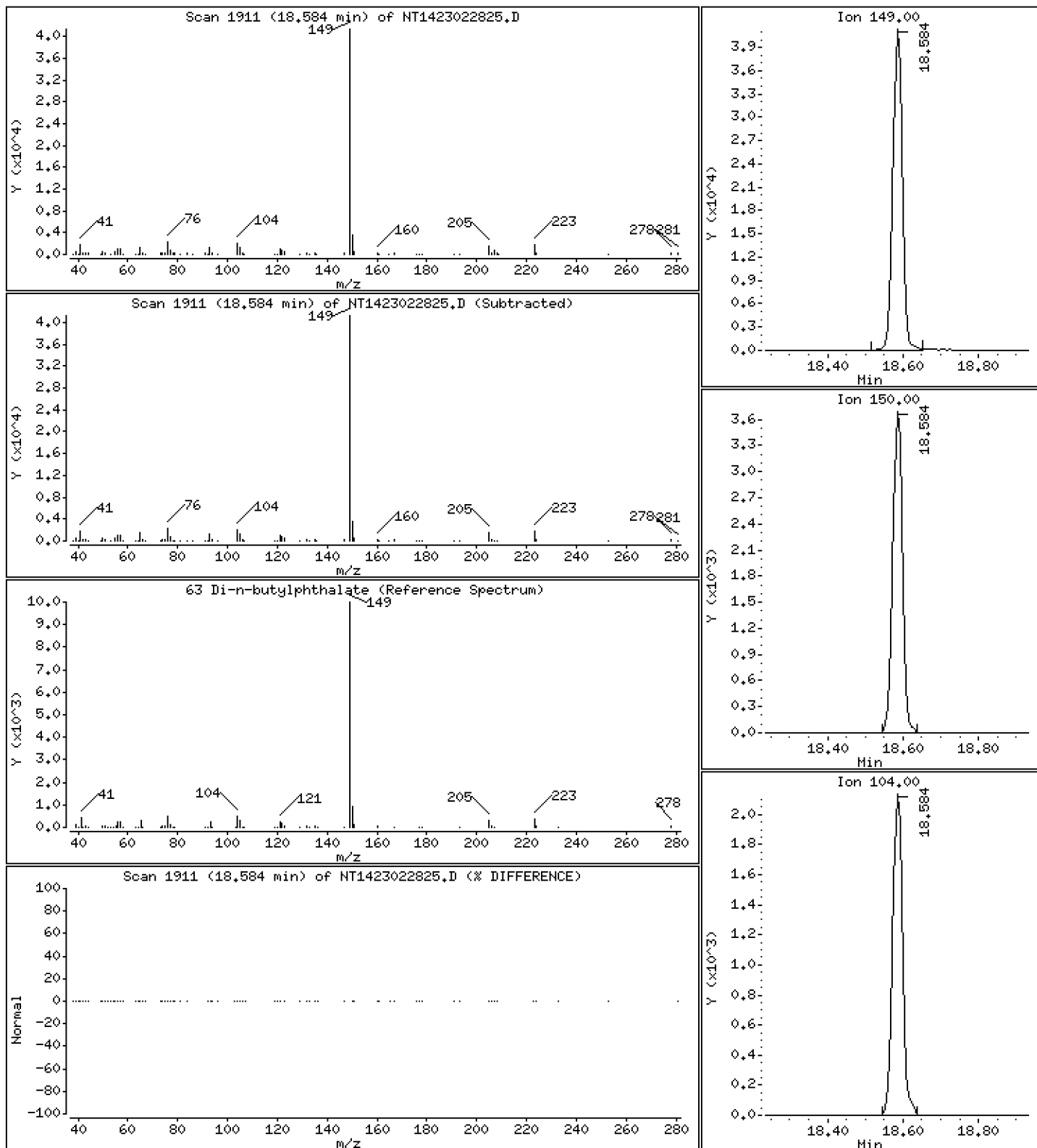
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 0,4784 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

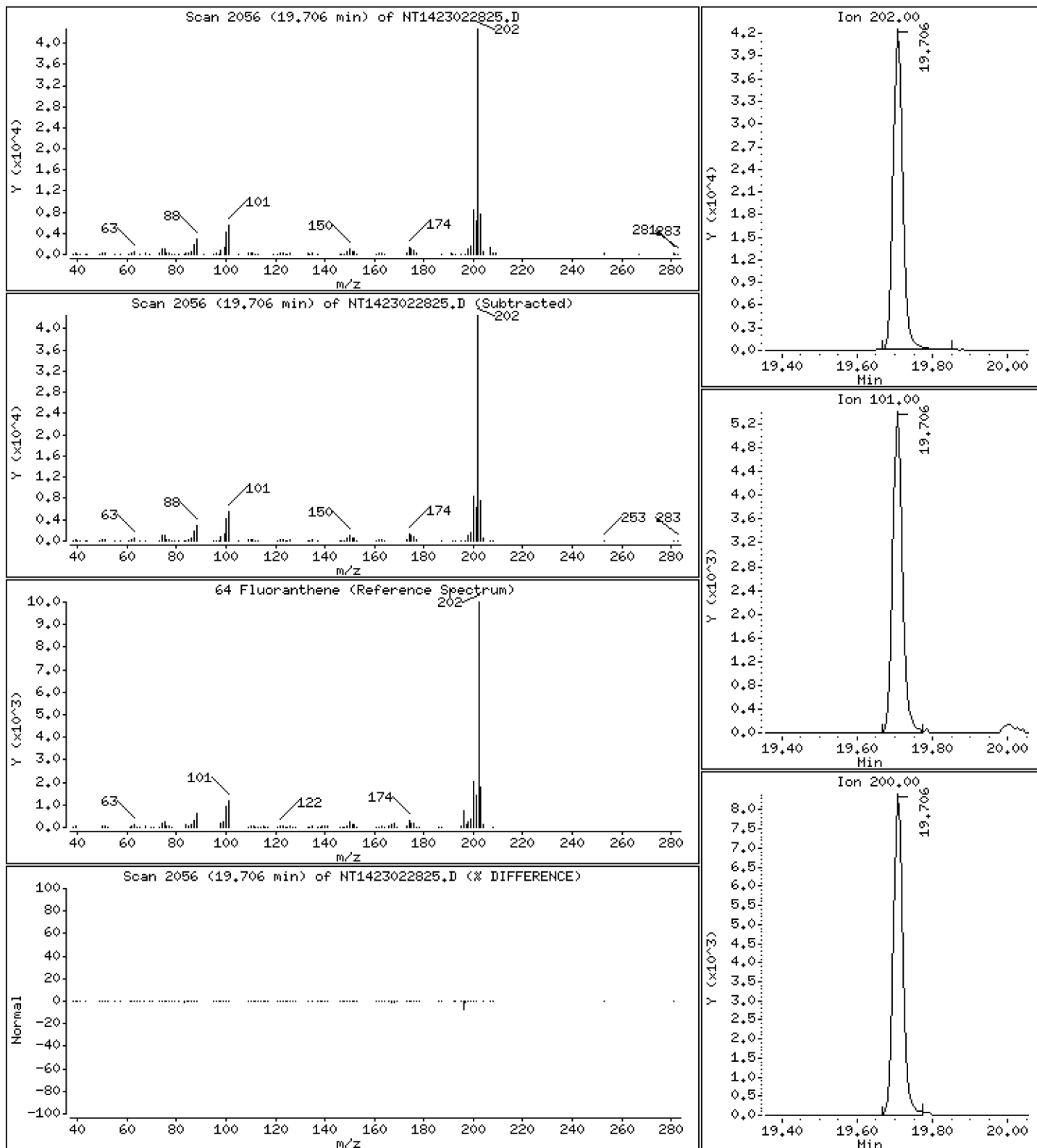
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 0,5129 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

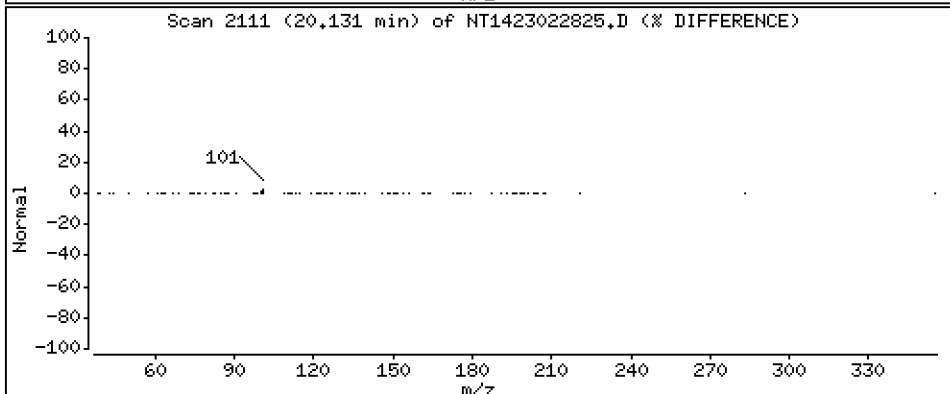
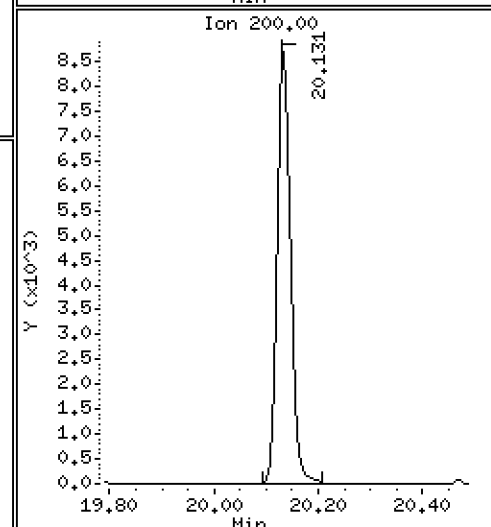
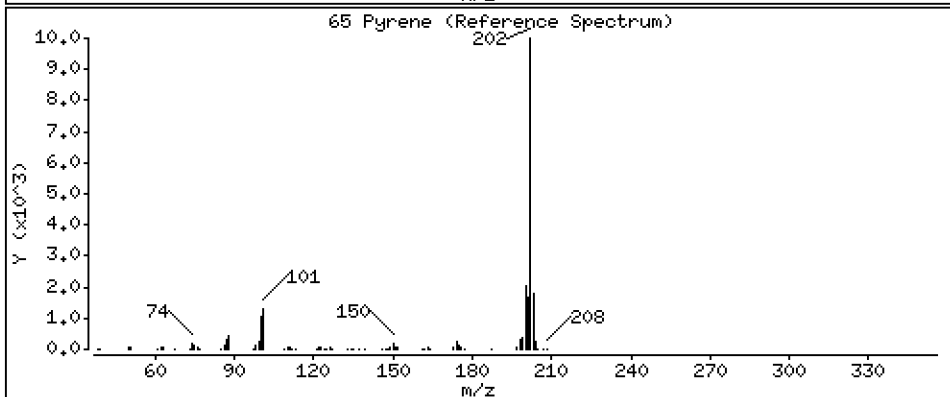
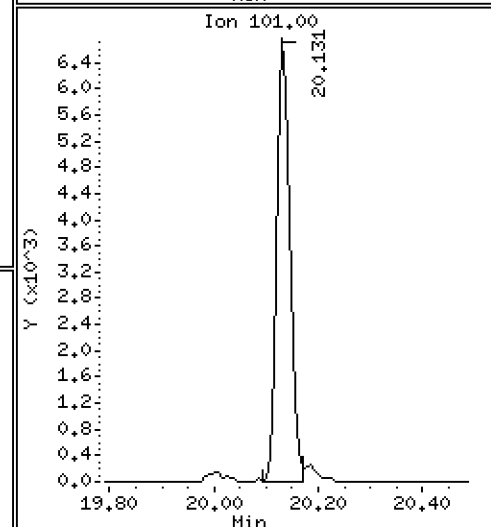
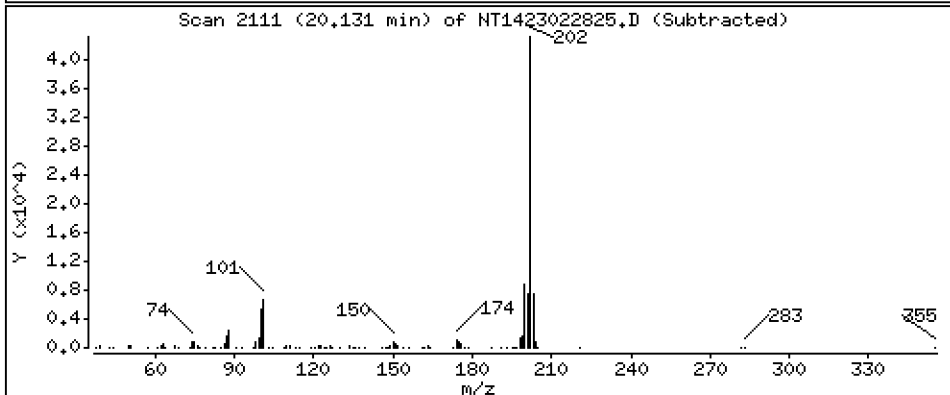
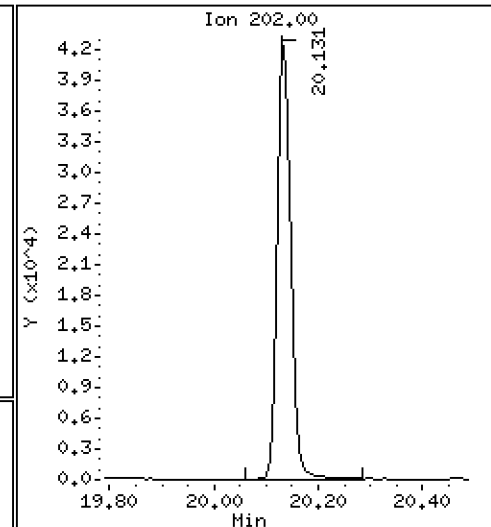
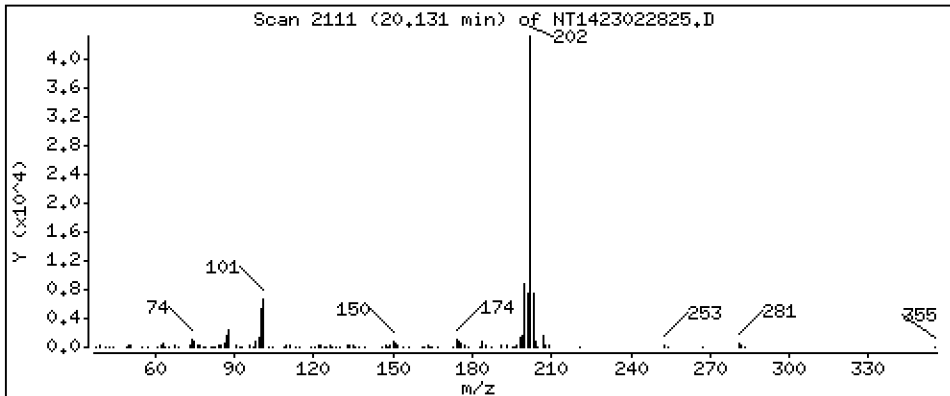
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 0,5119 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

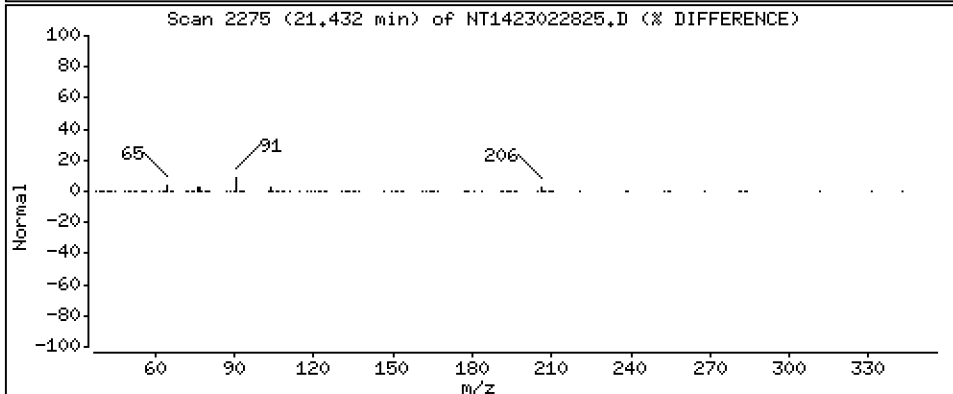
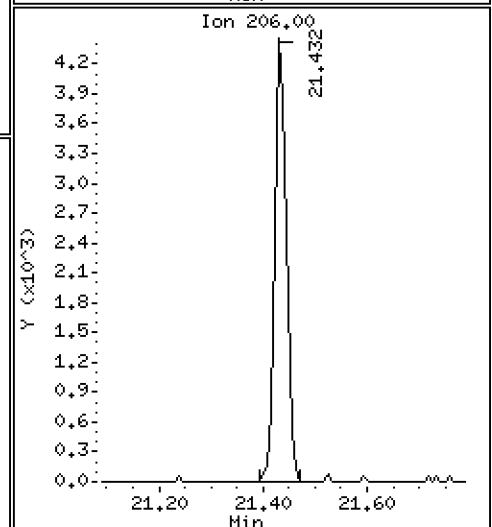
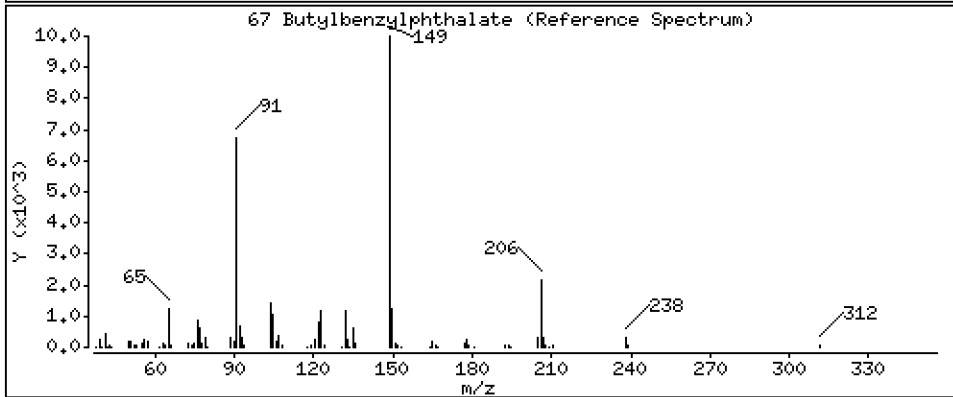
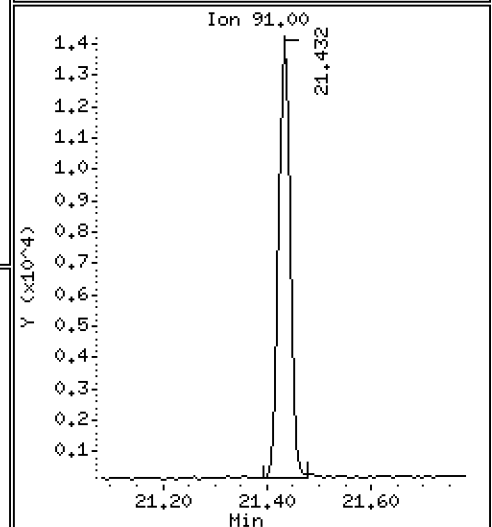
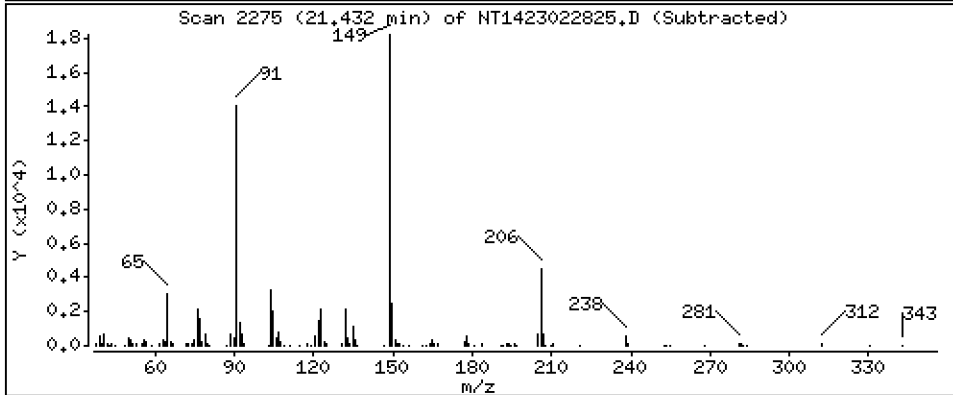
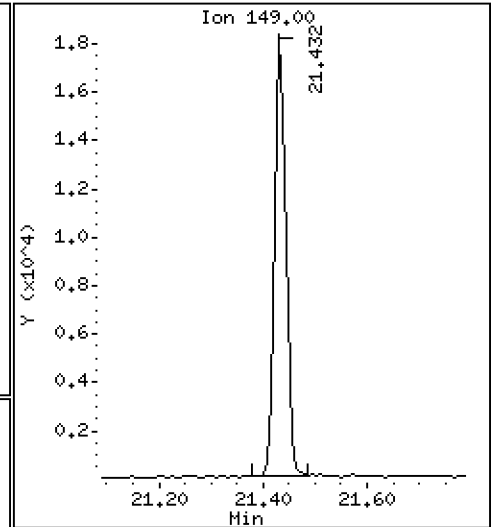
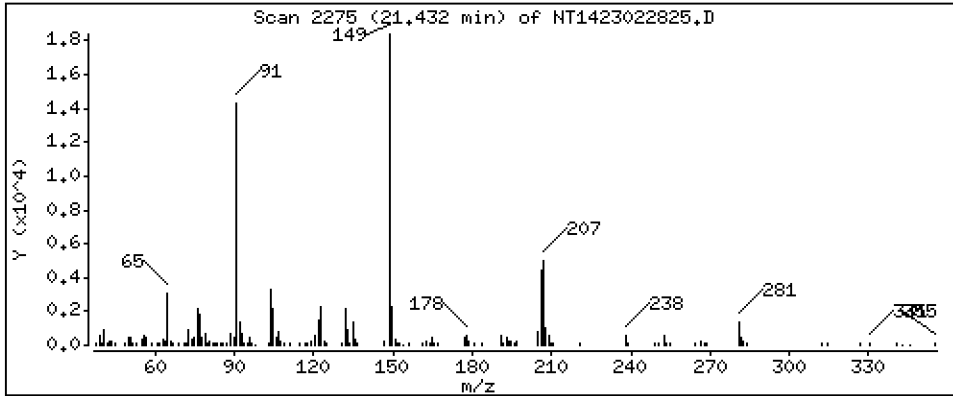
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 0,5119 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

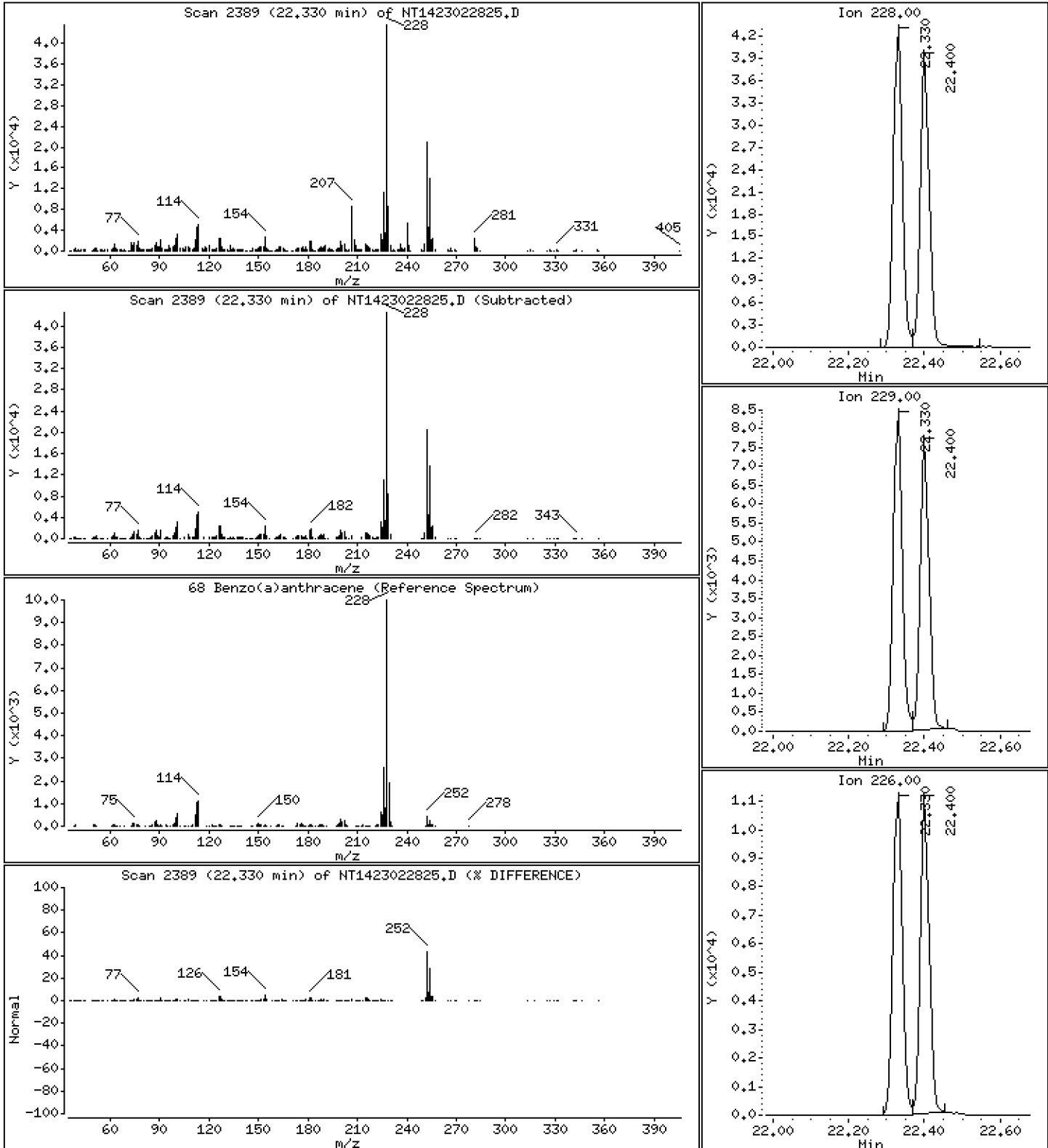
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 0,5453 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

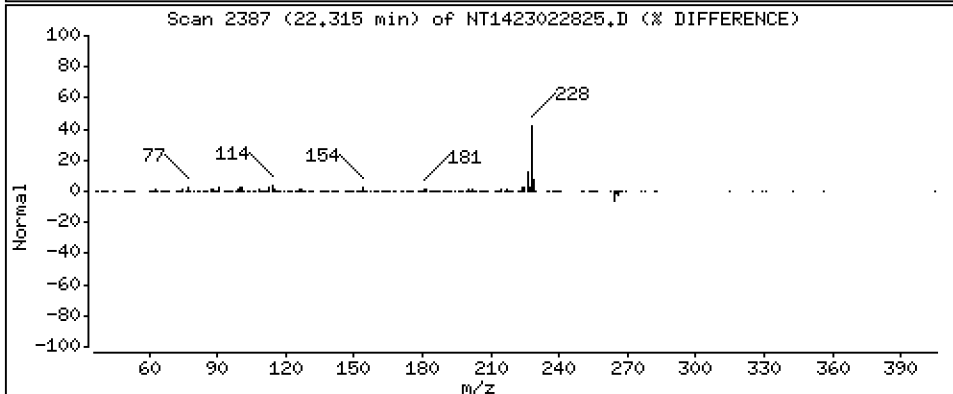
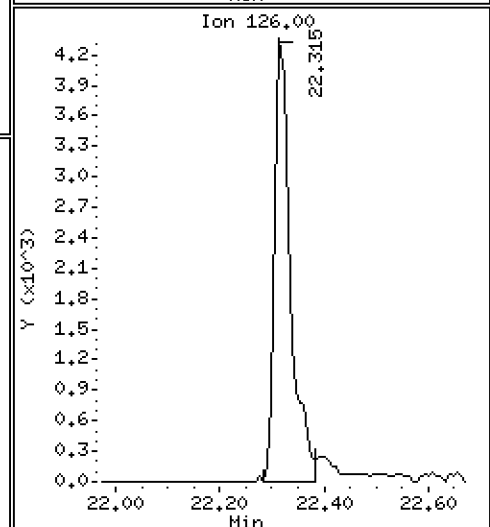
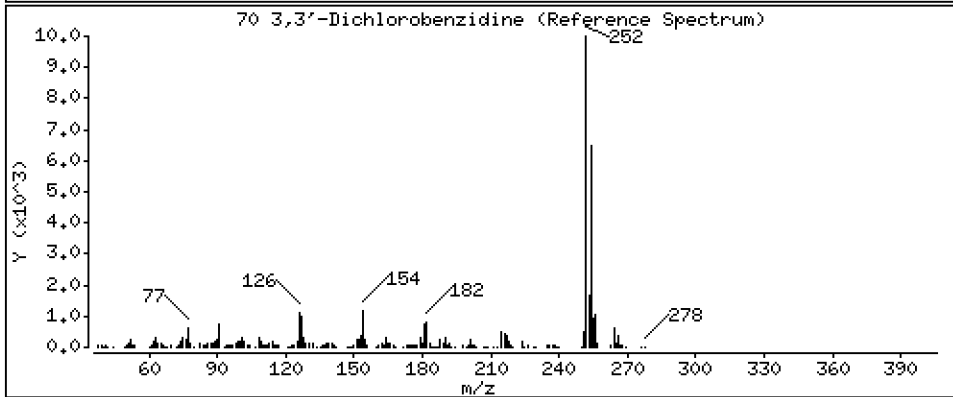
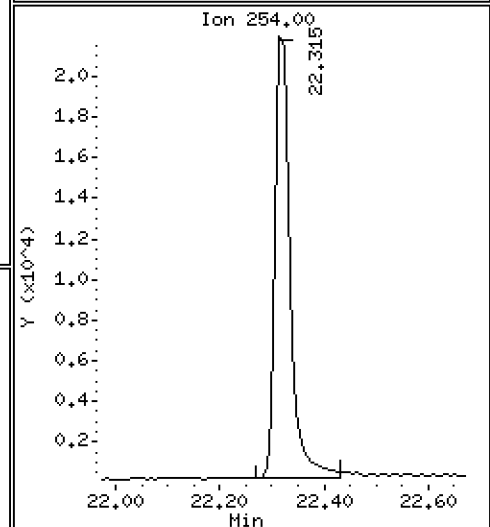
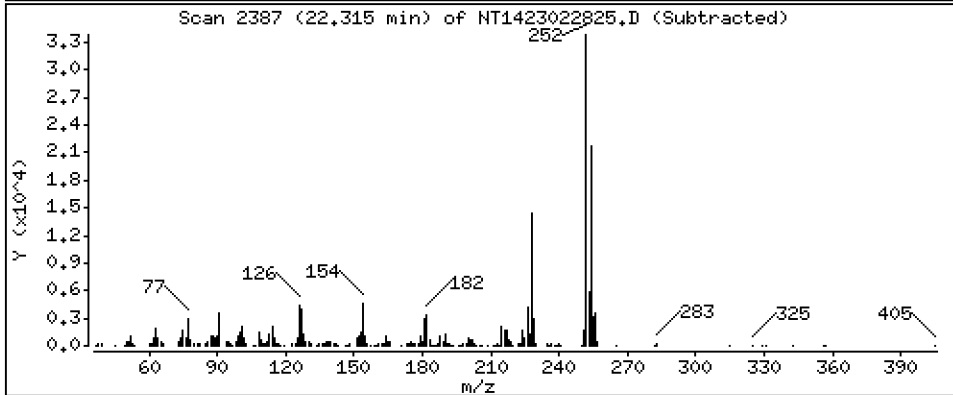
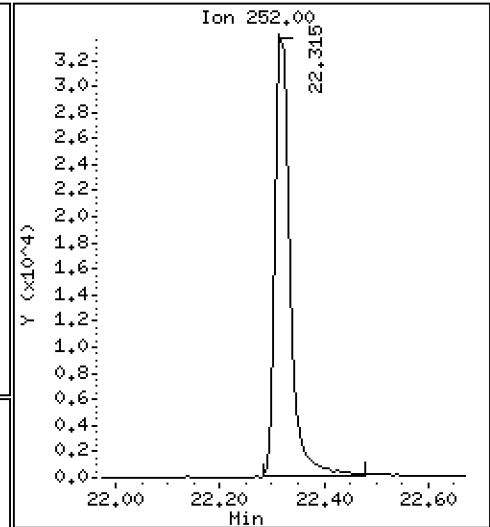
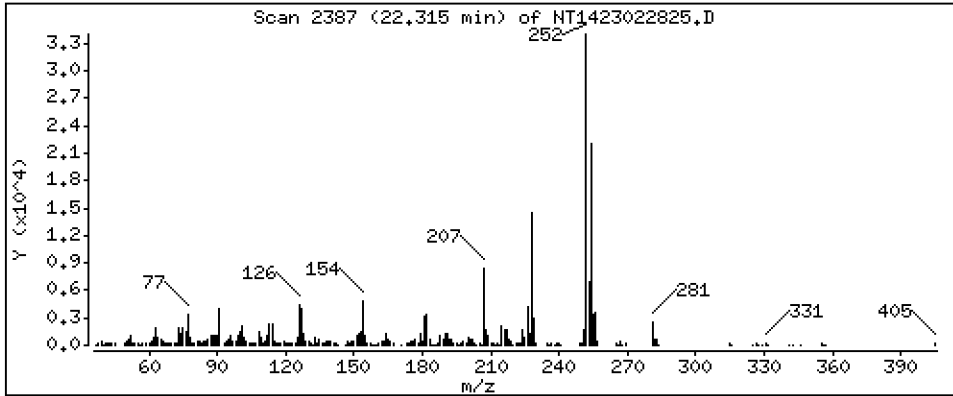
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

70 3,3'-Dichlorobenzidine

Concentration: 1,854 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

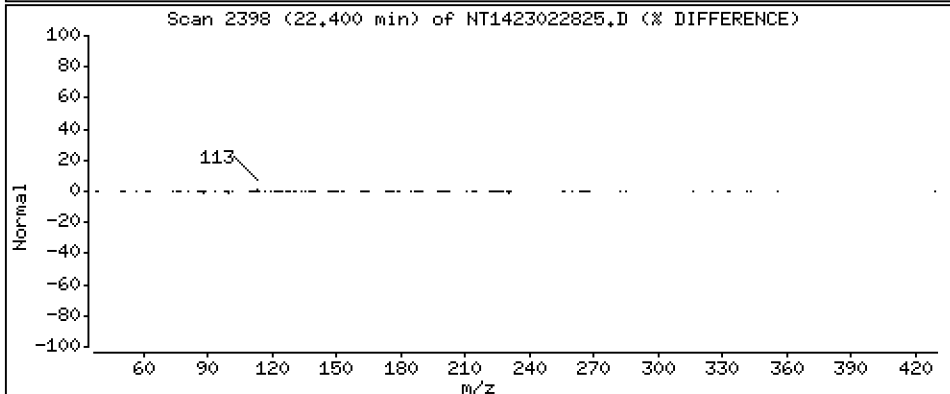
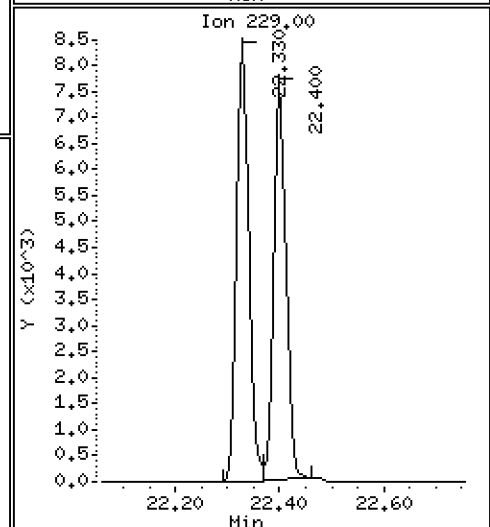
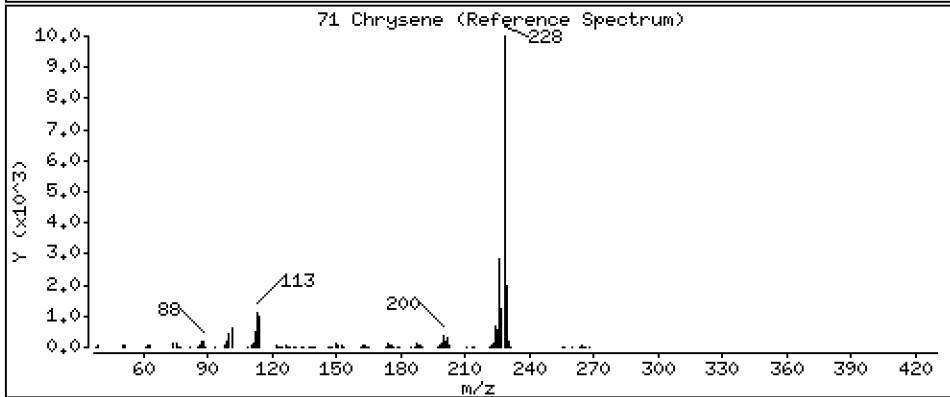
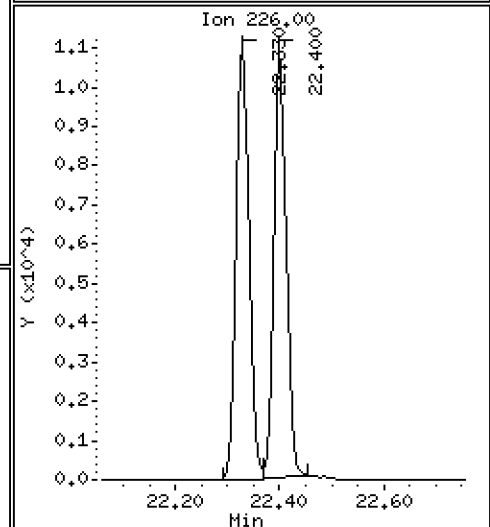
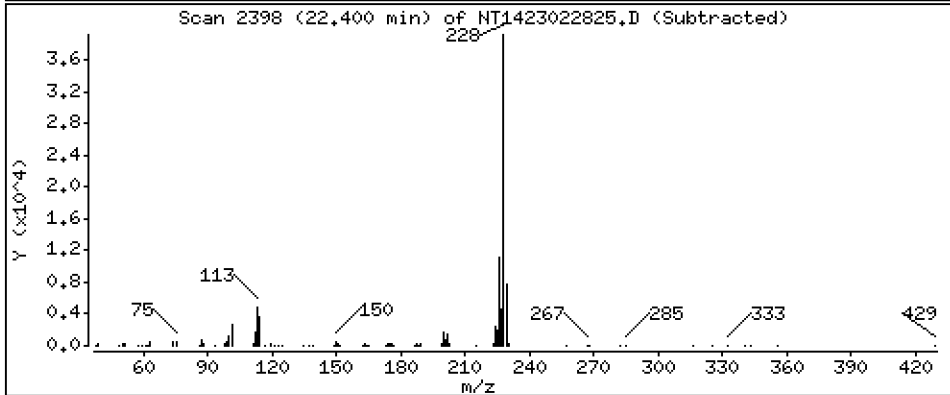
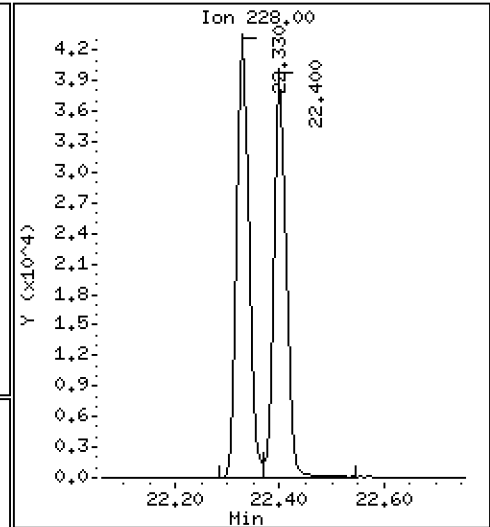
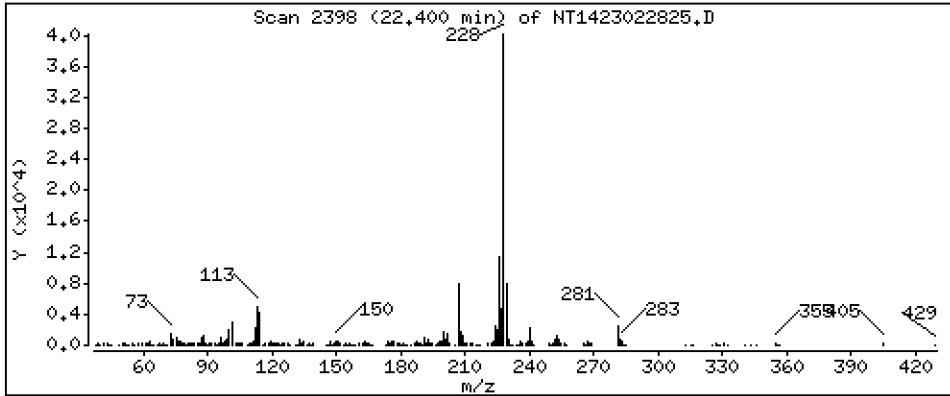
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 0,5326 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

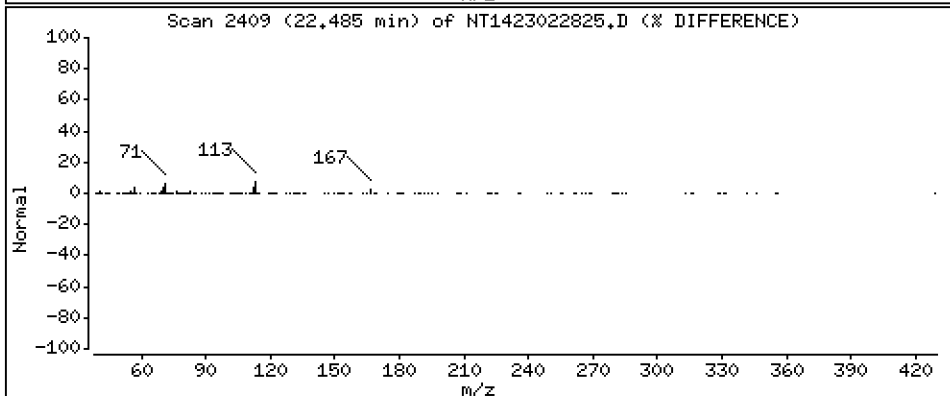
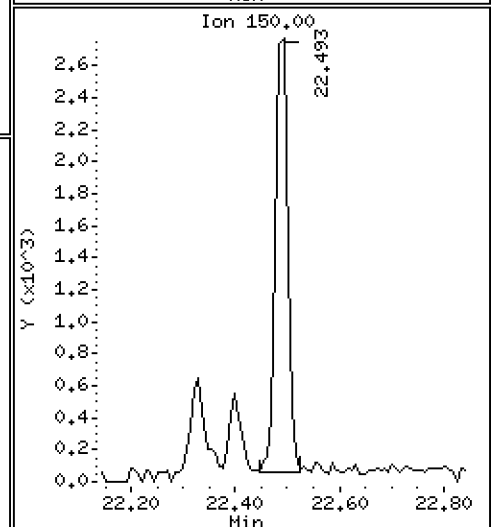
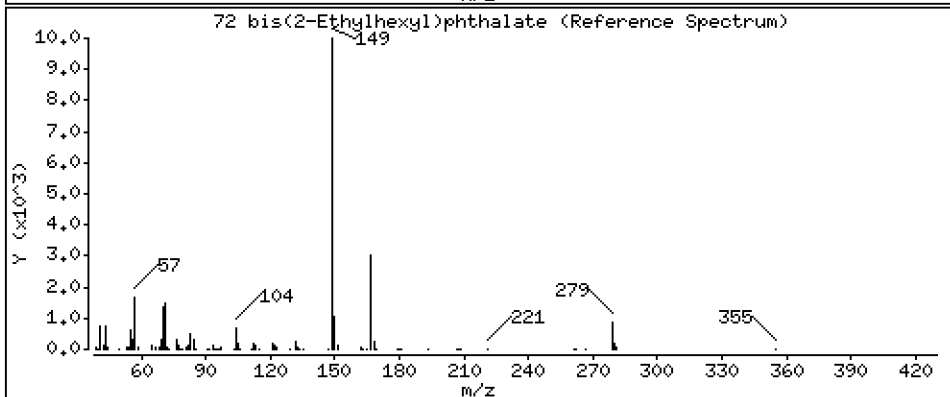
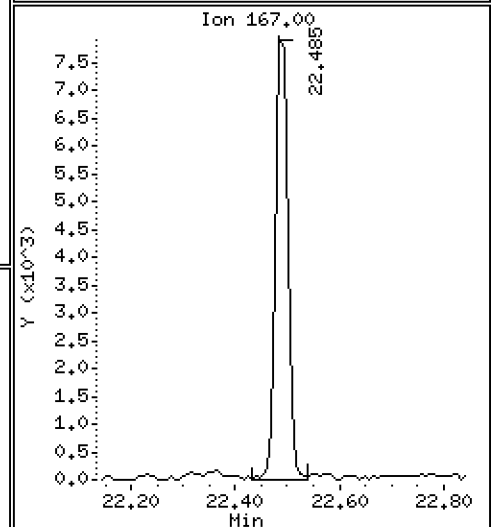
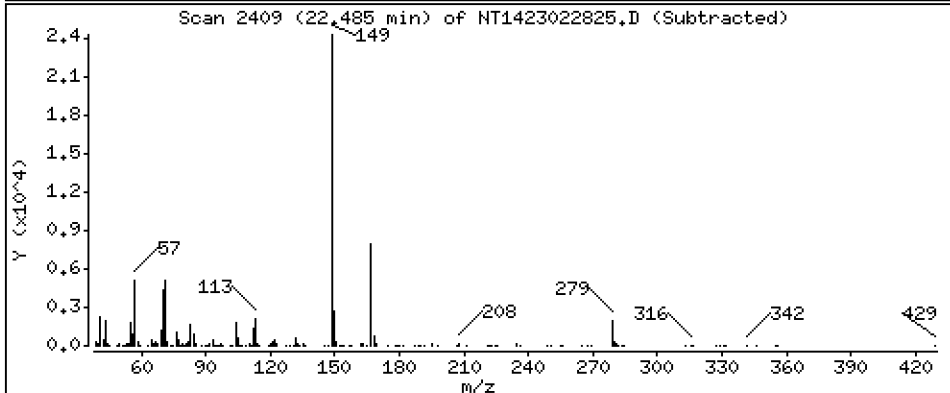
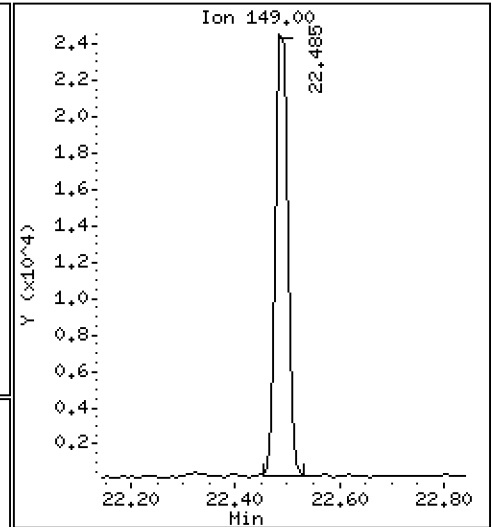
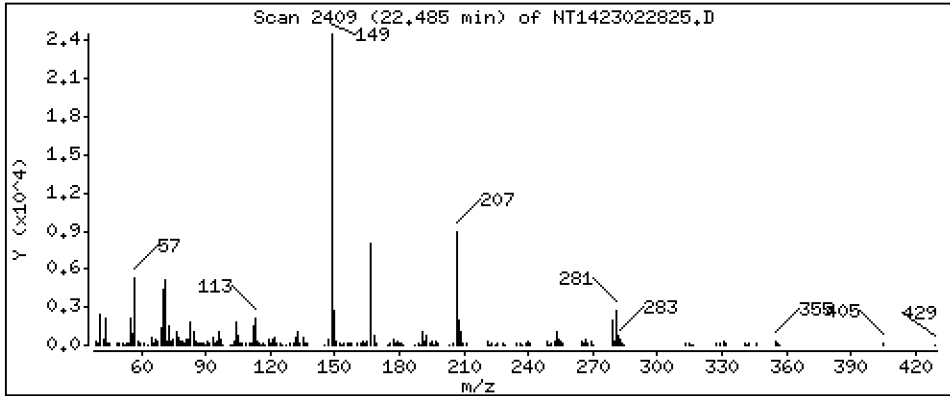
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 0,4540 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

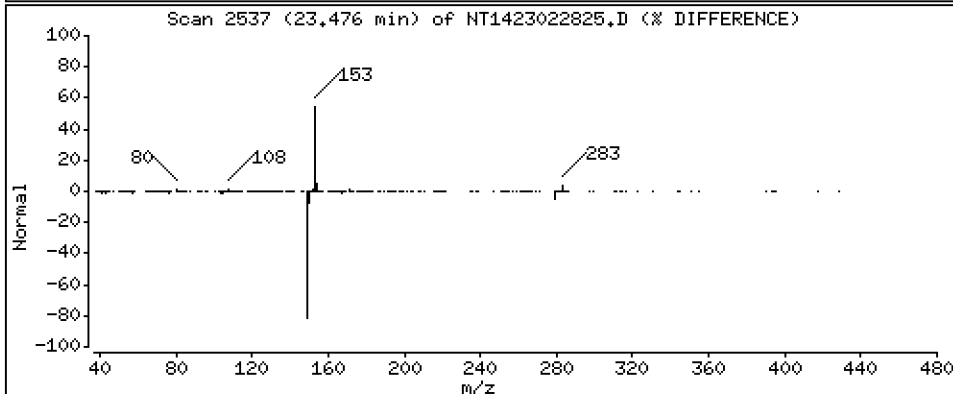
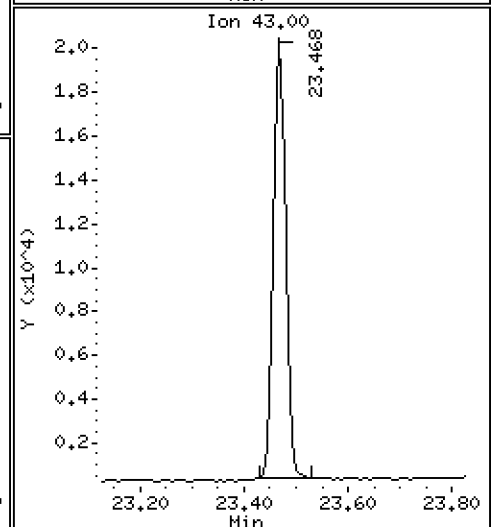
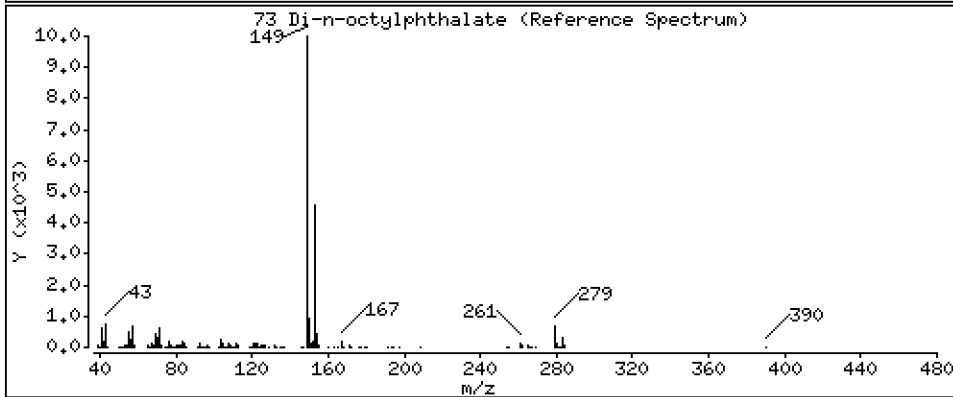
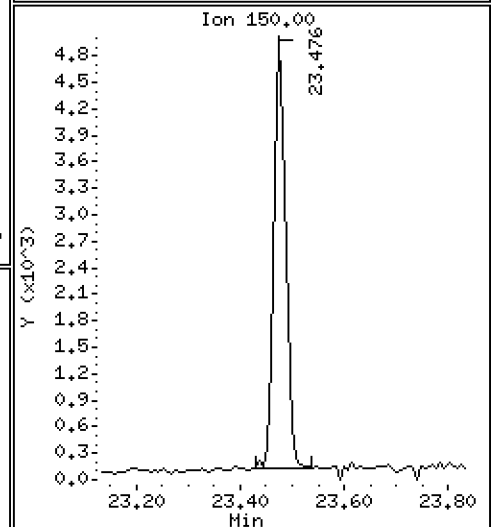
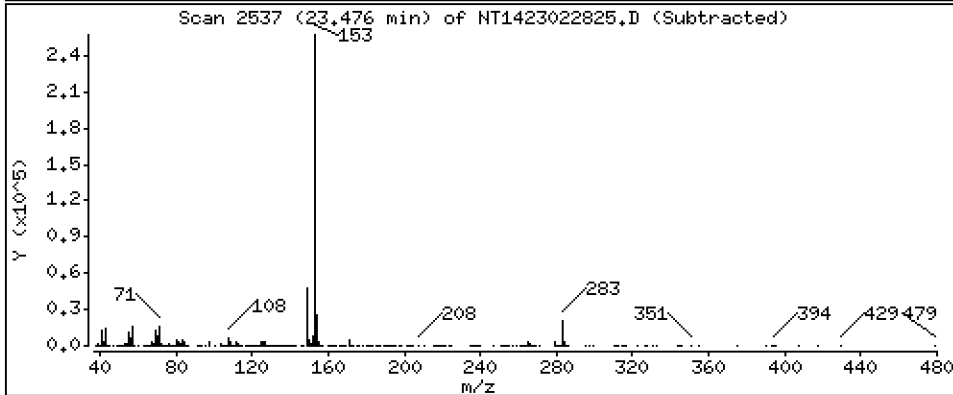
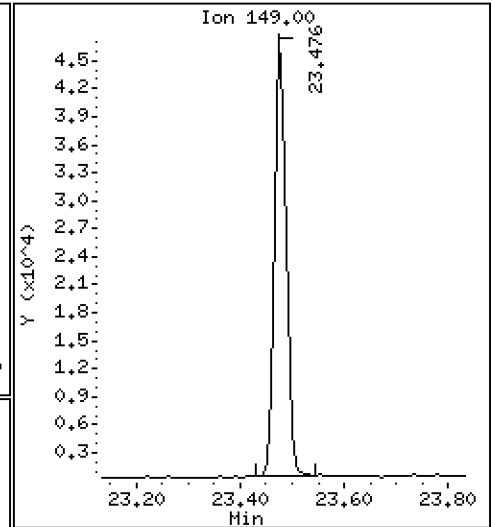
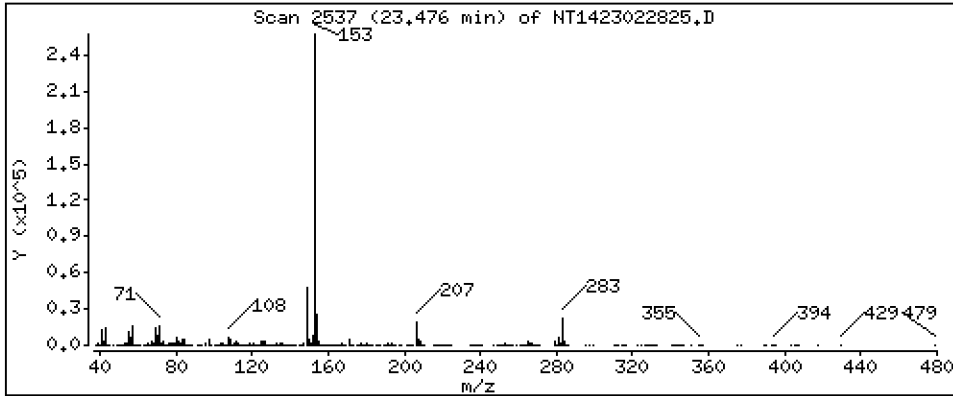
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 0,5004 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

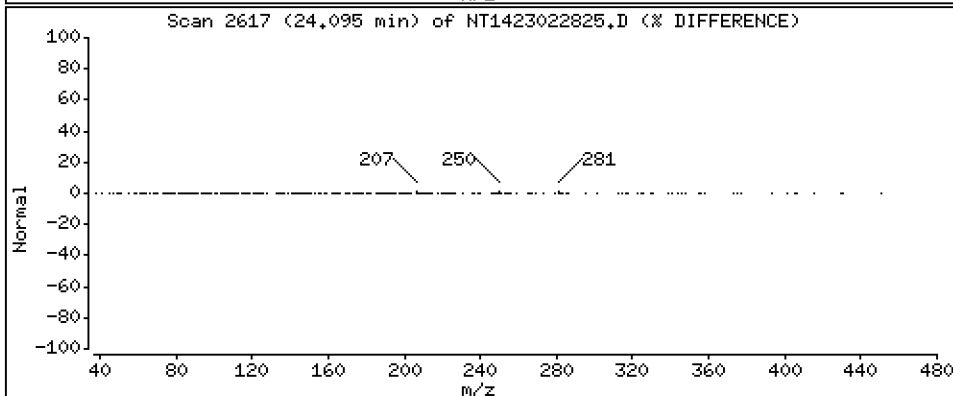
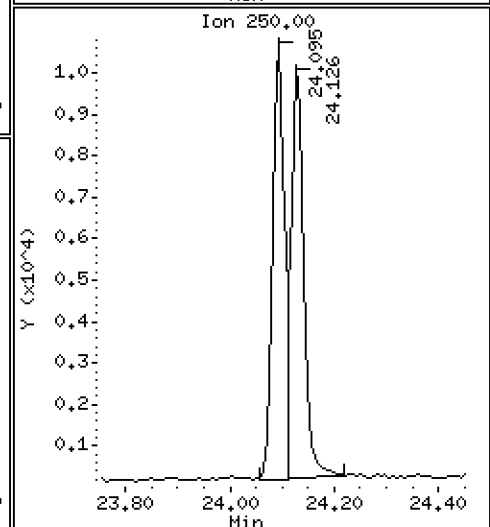
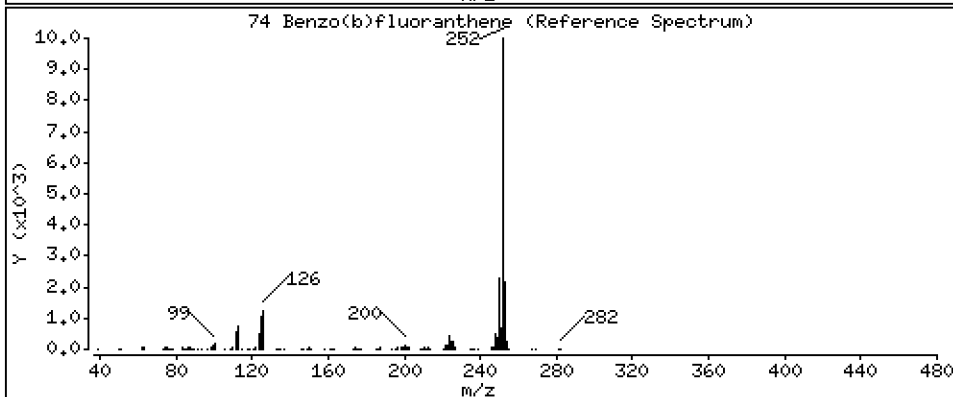
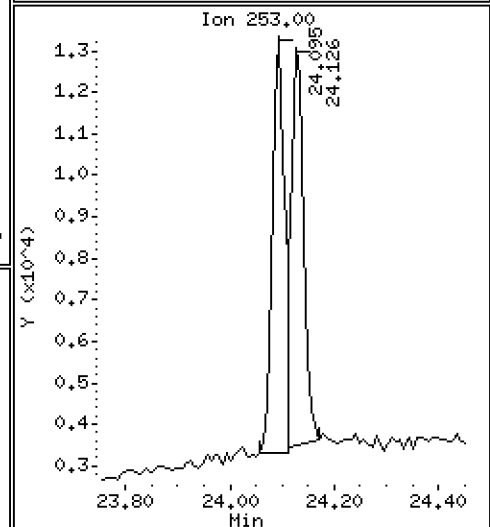
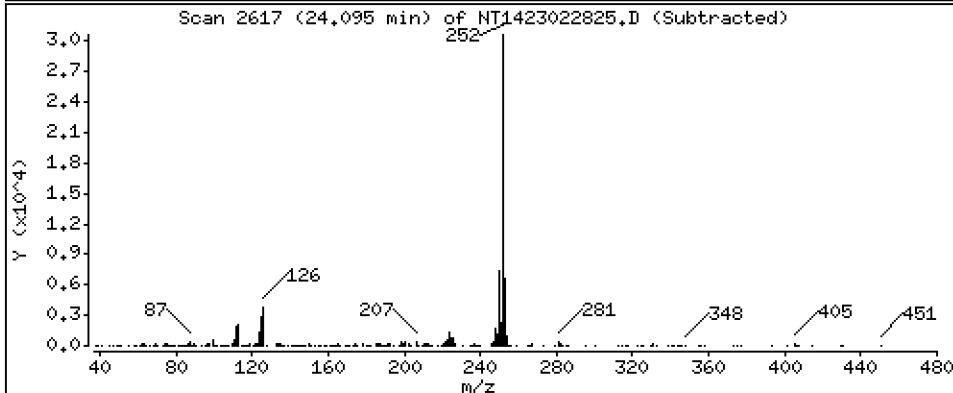
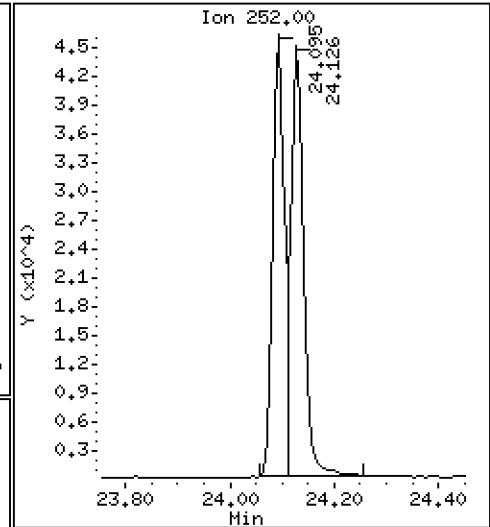
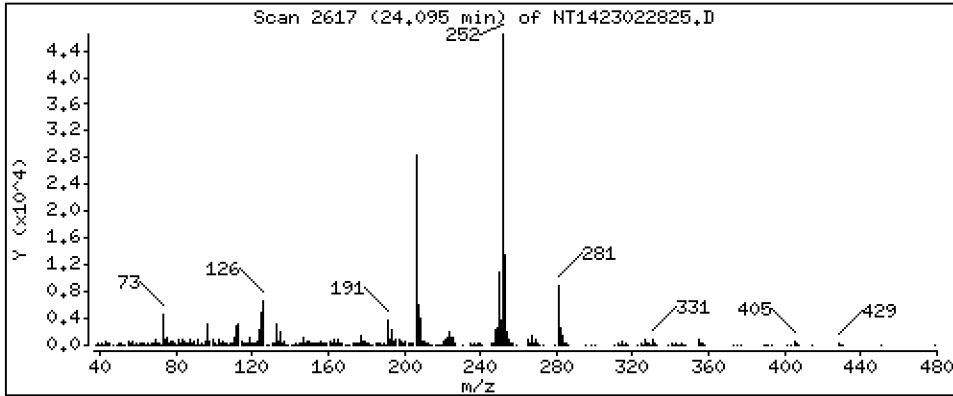
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 0,5153 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

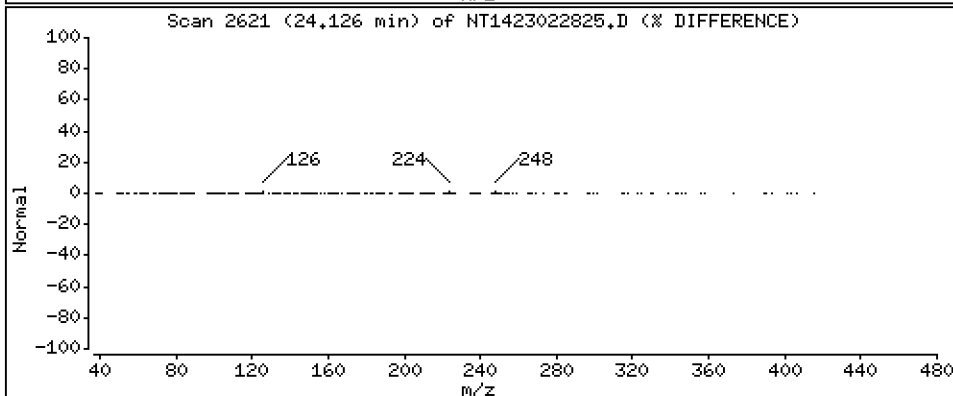
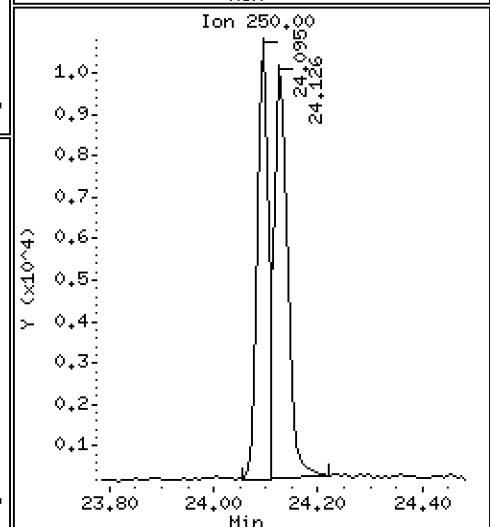
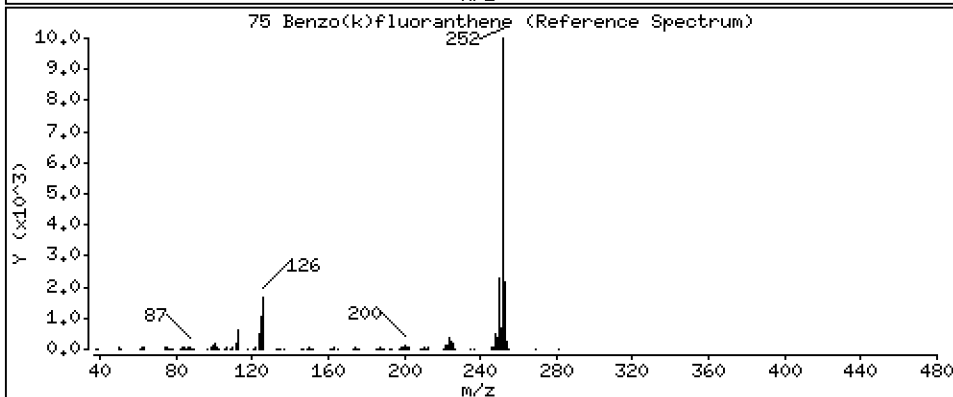
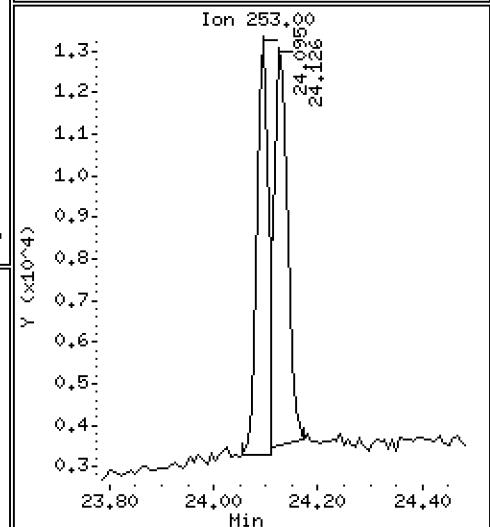
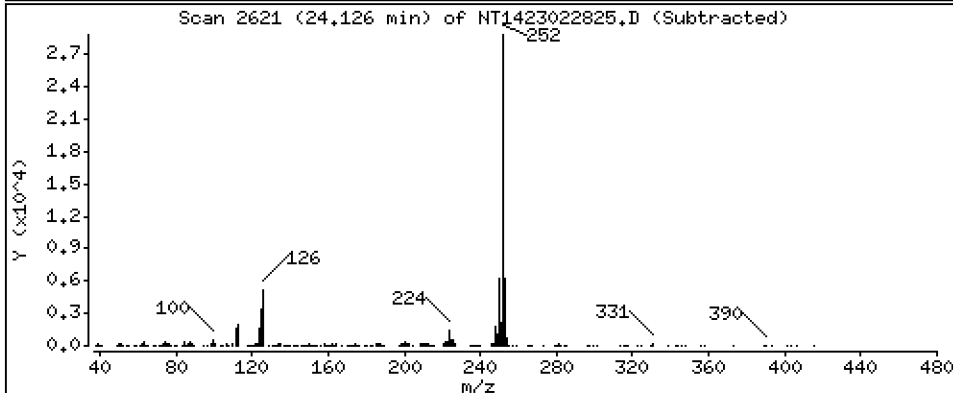
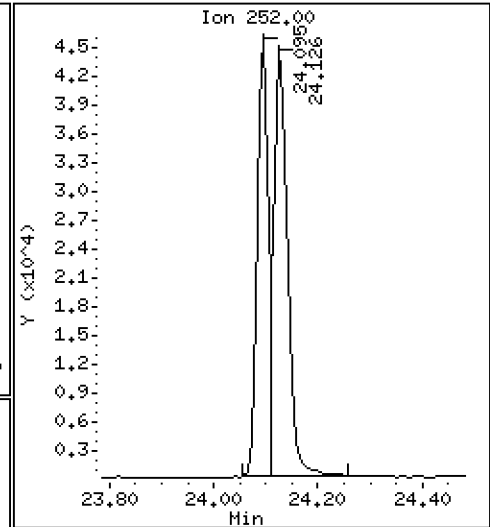
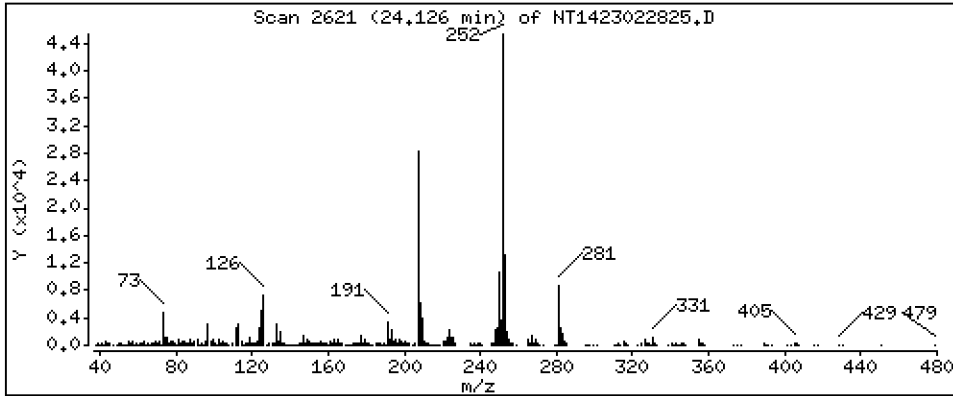
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 0,5325 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

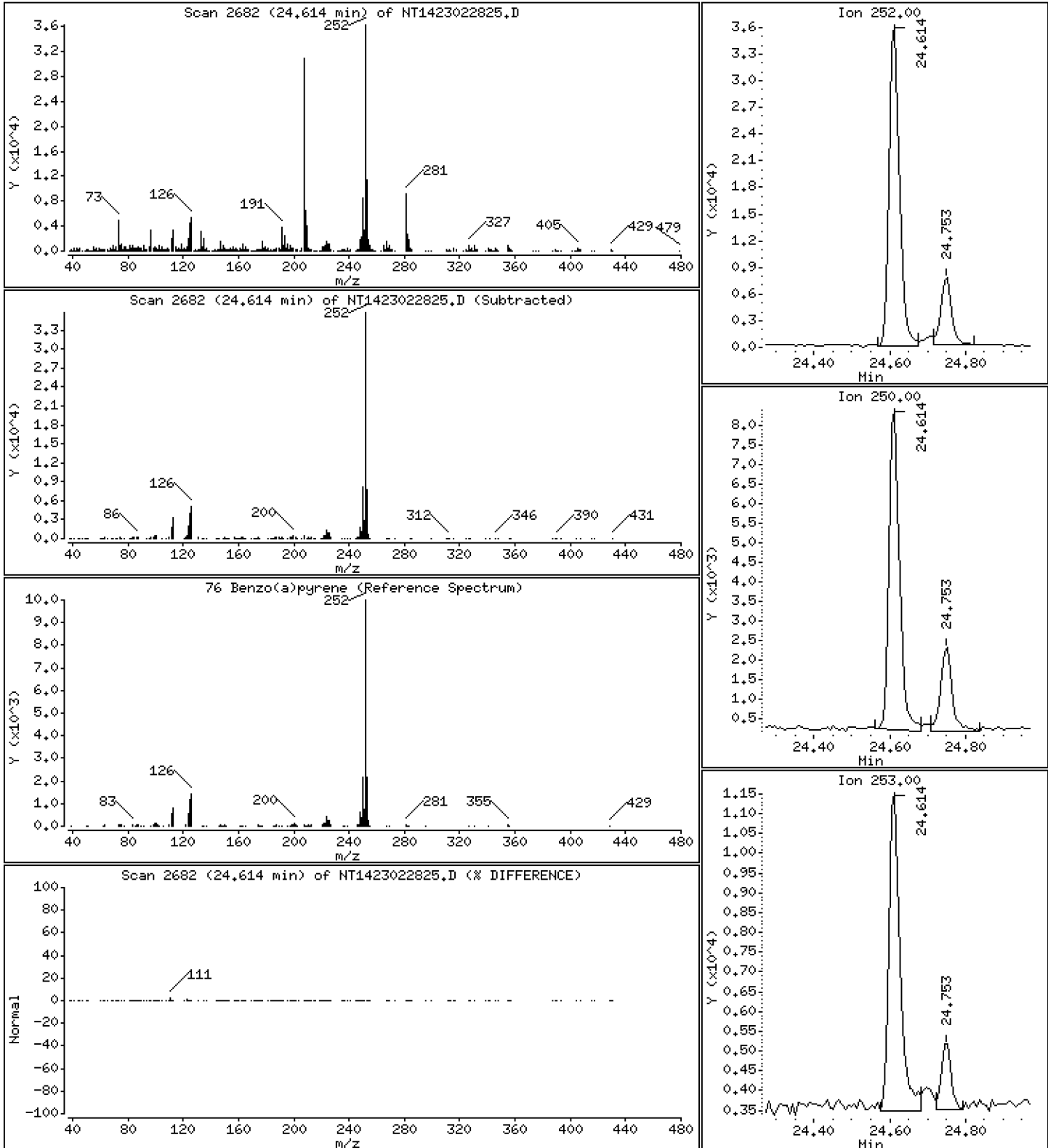
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 0,5470 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

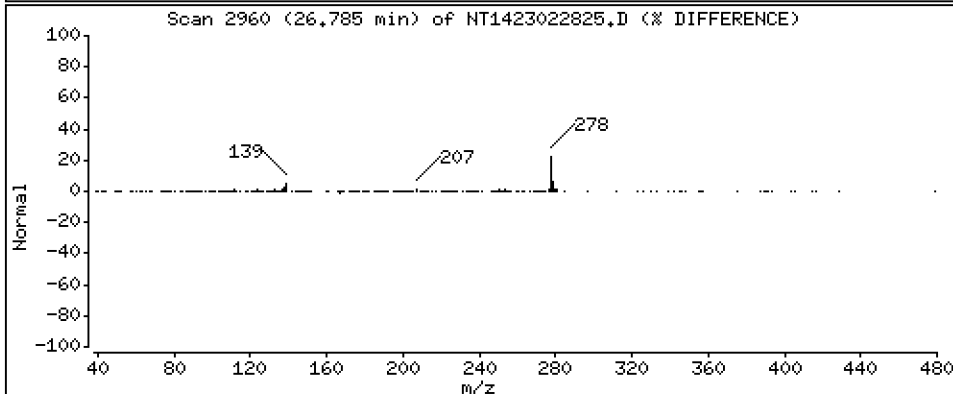
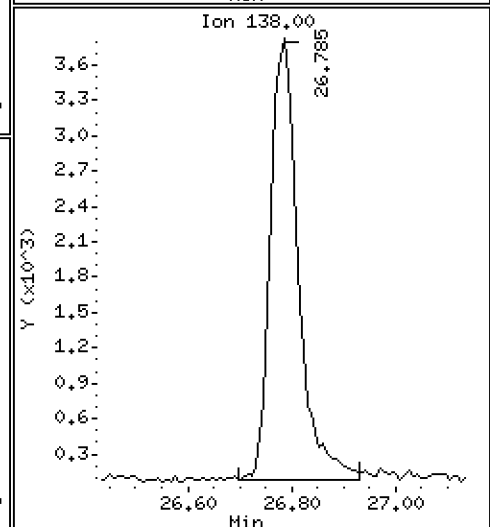
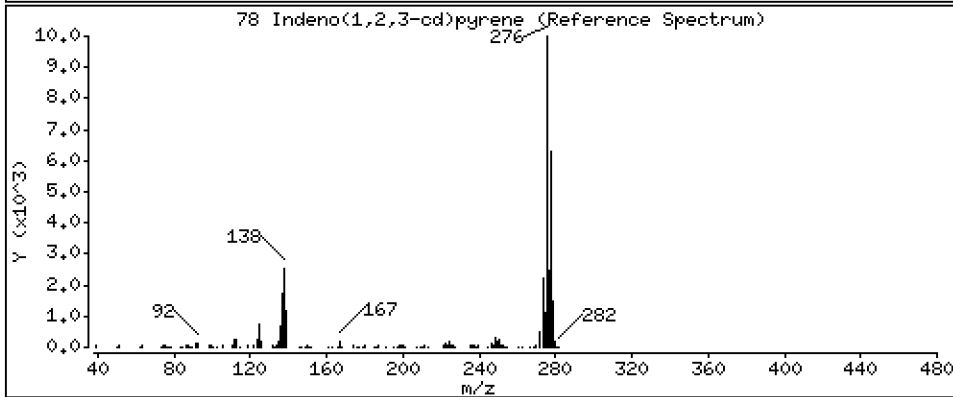
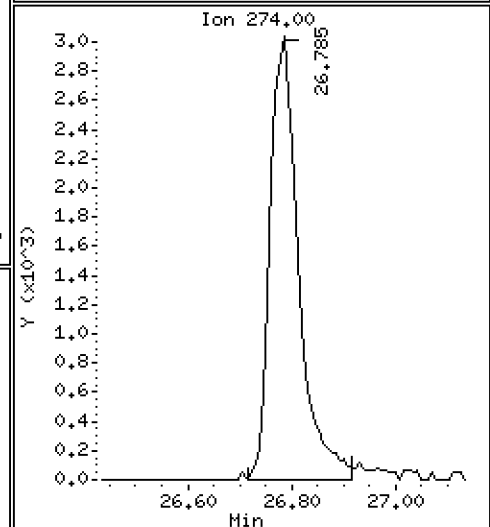
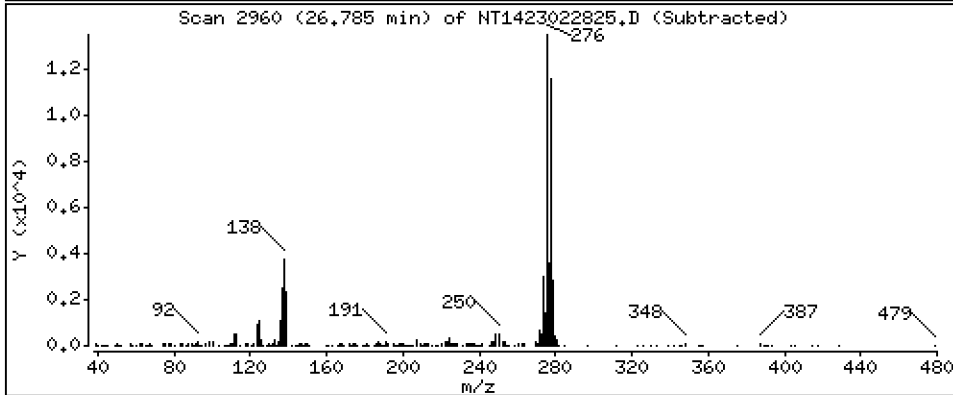
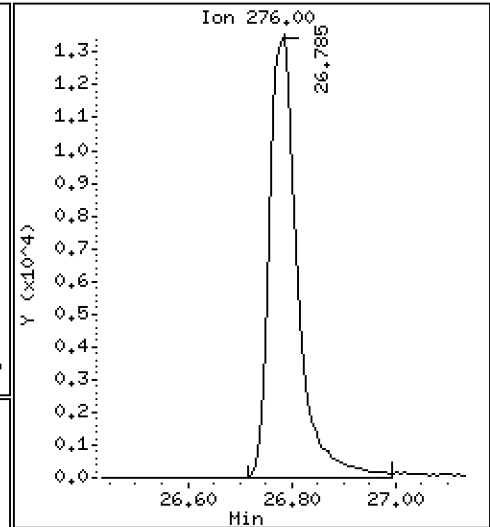
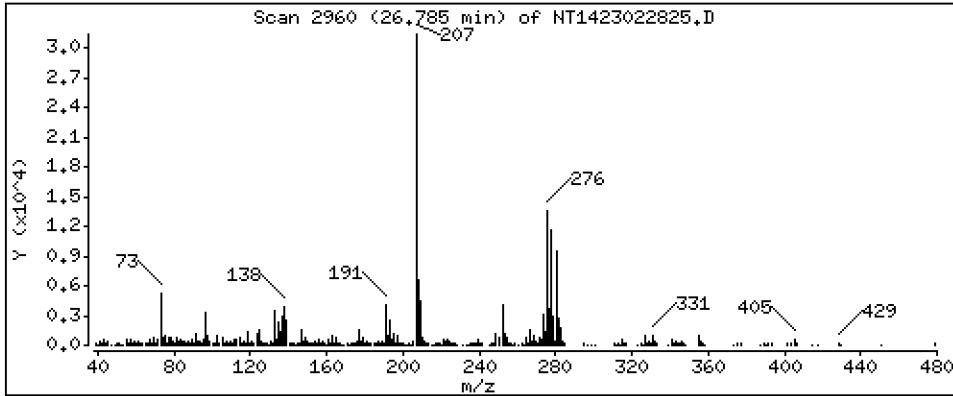
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 0,3258 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

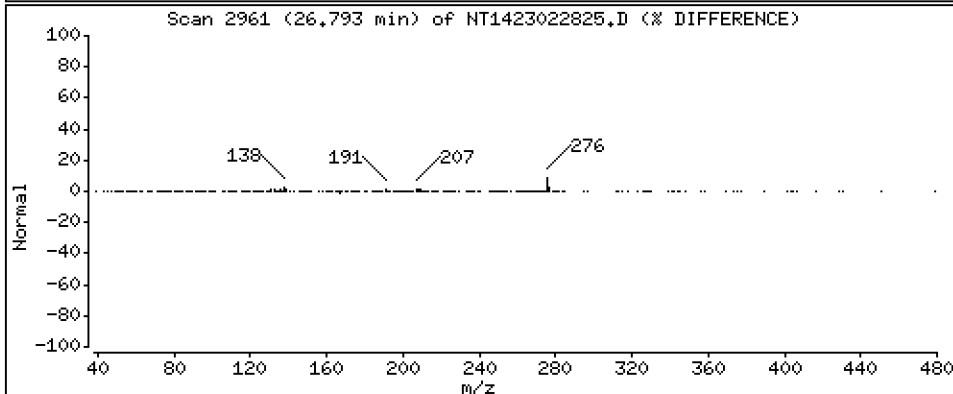
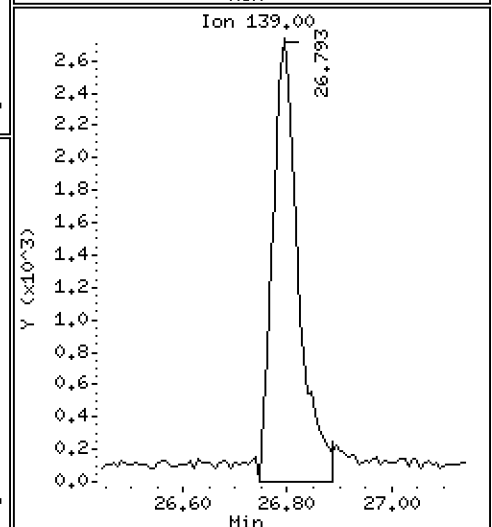
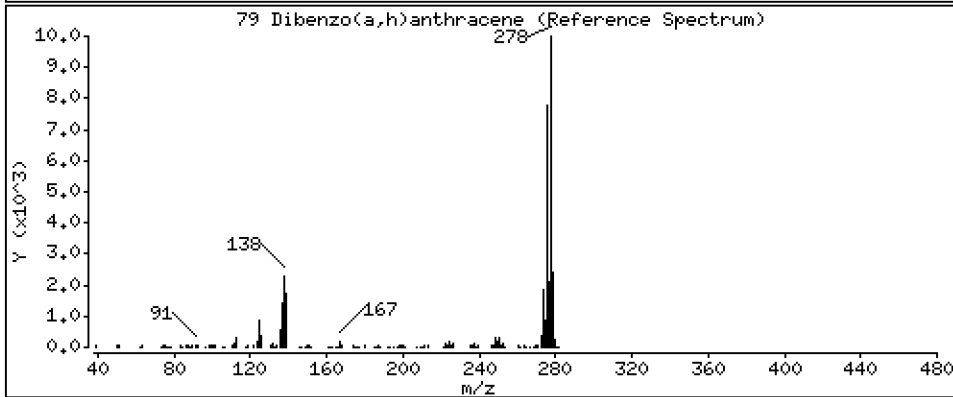
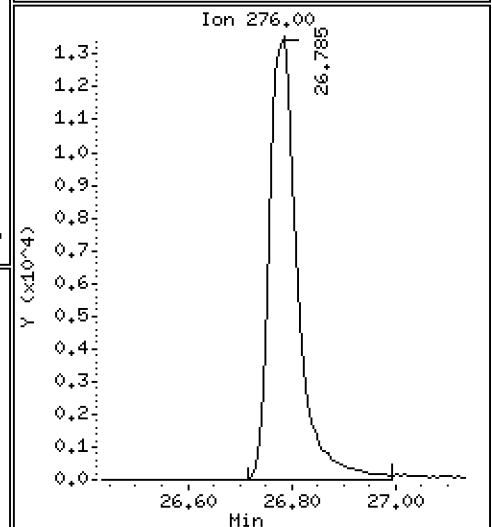
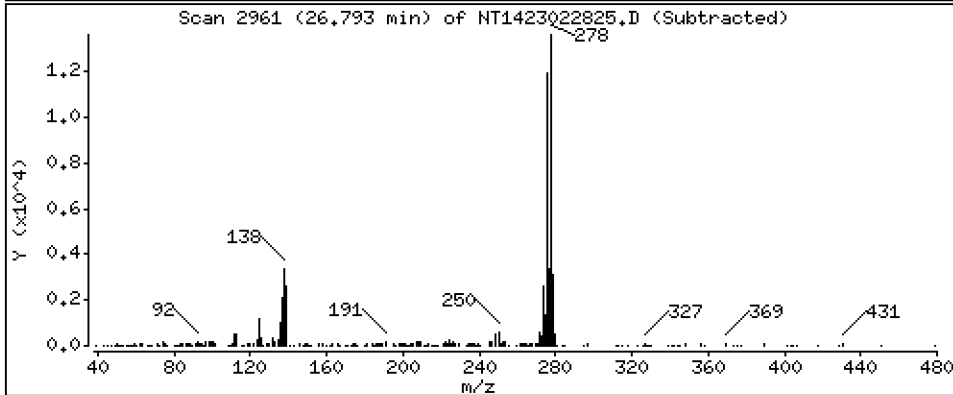
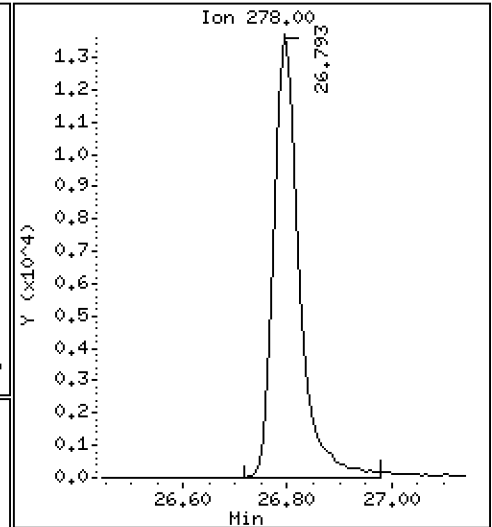
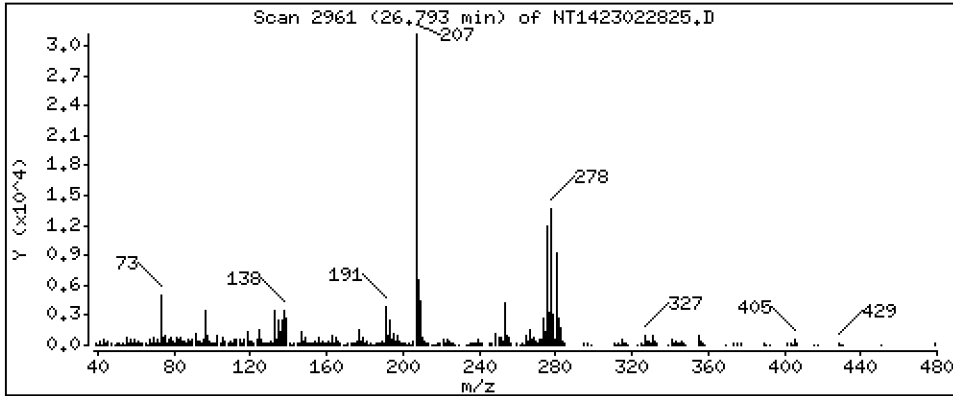
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 0,3534 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

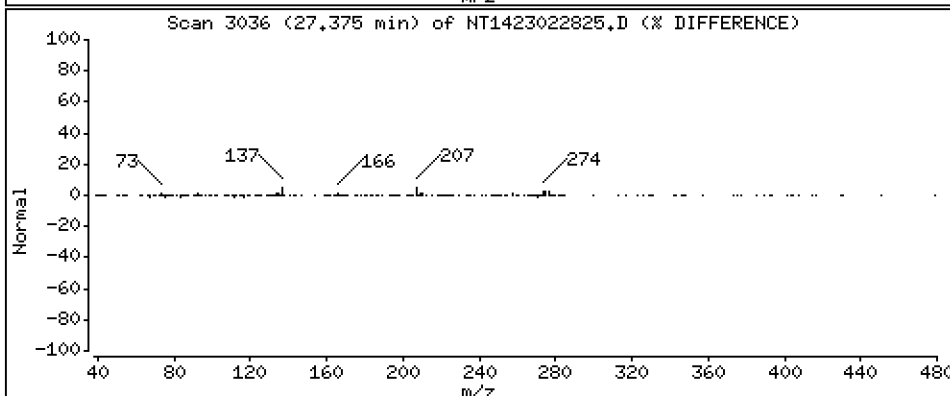
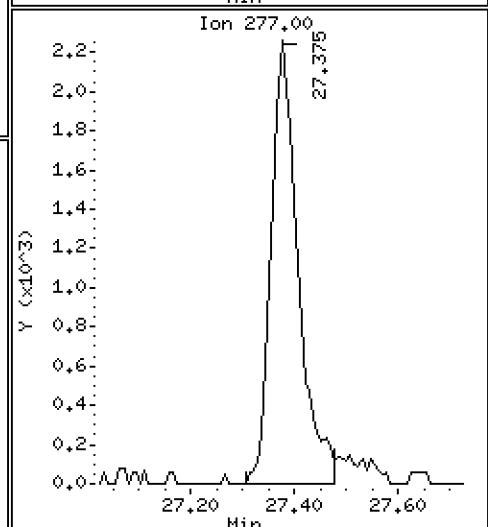
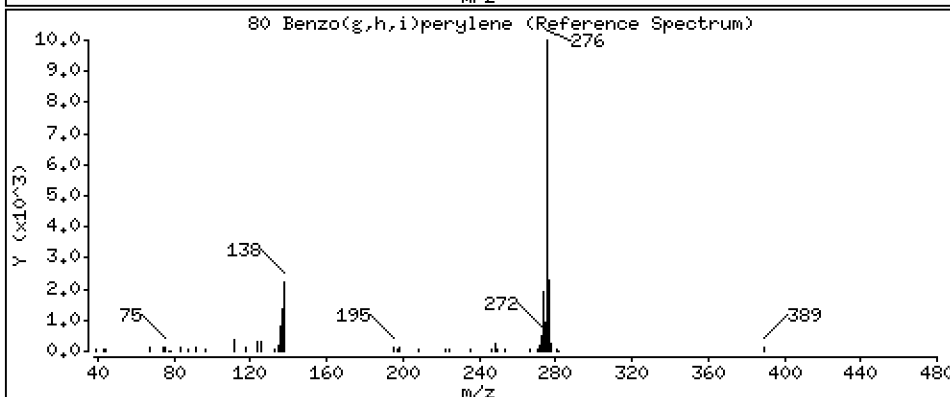
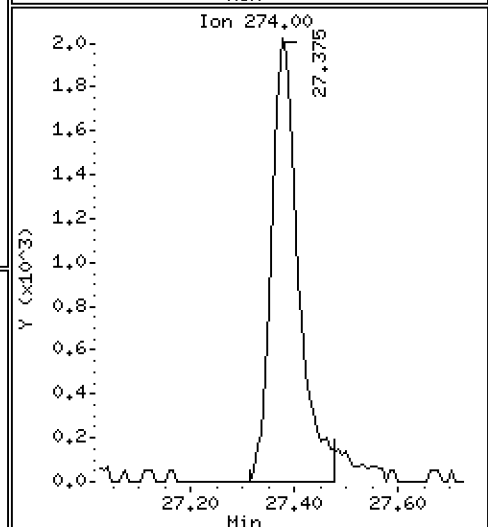
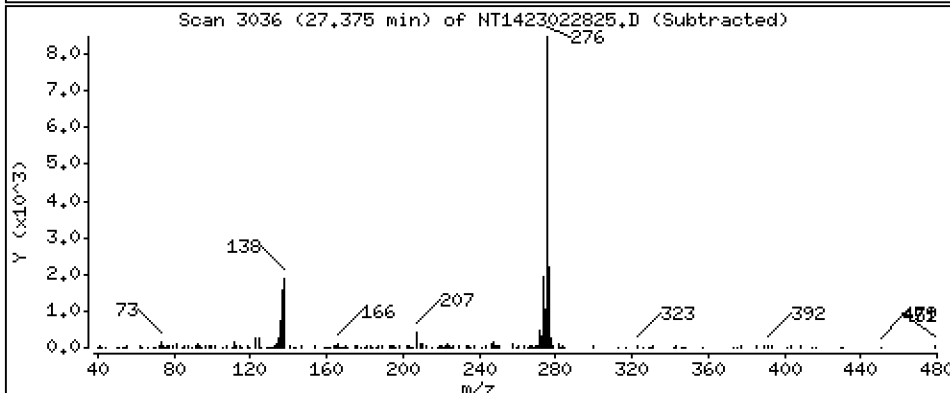
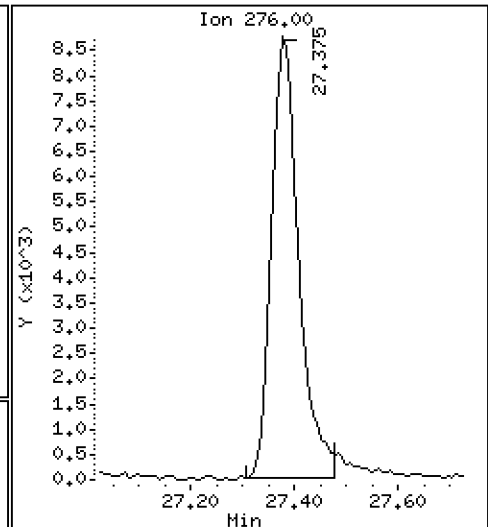
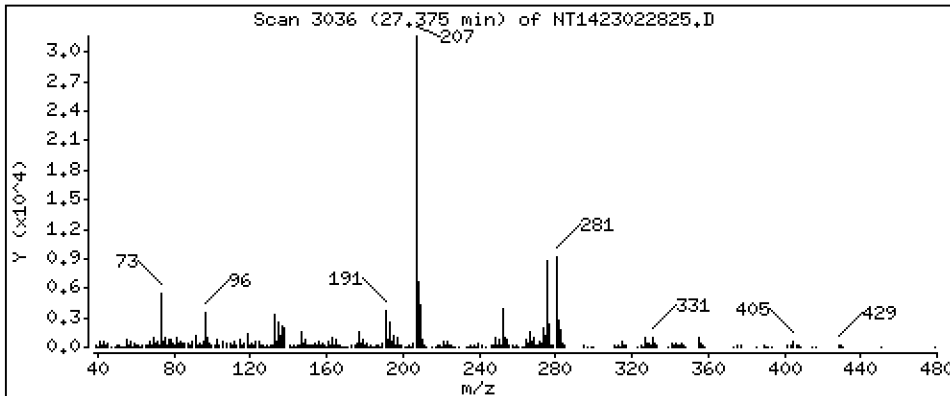
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 0,2332 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

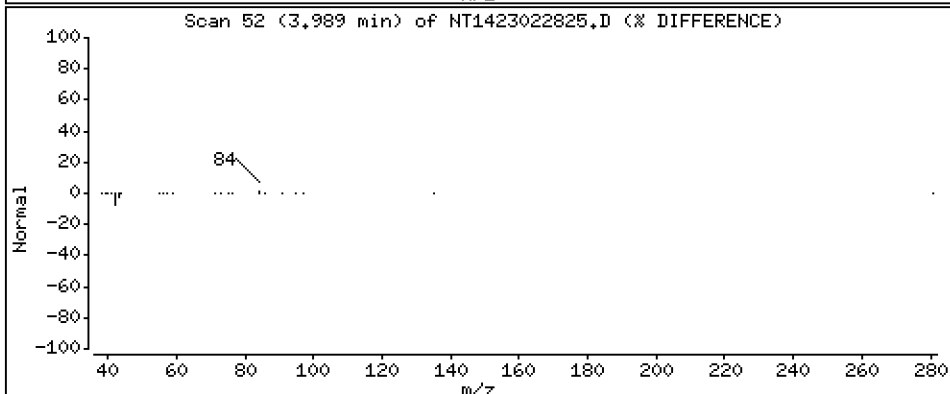
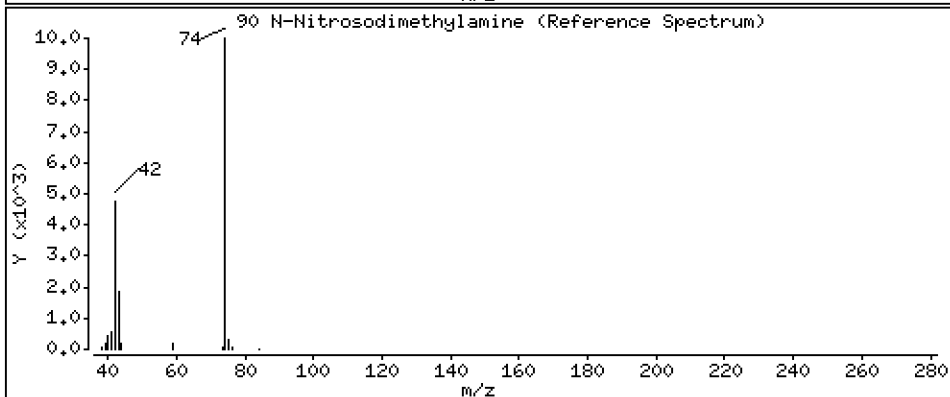
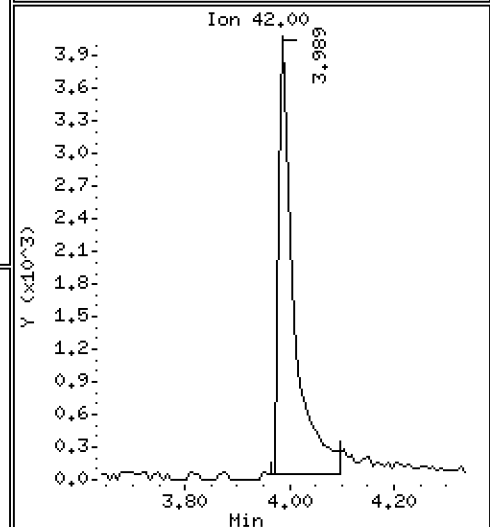
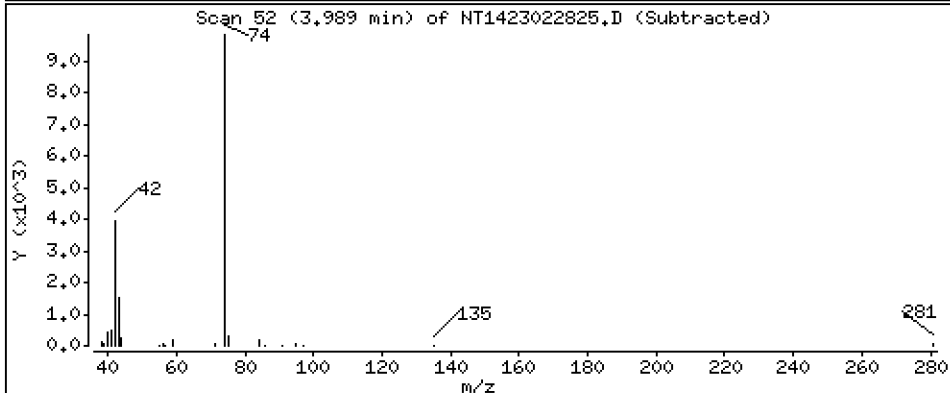
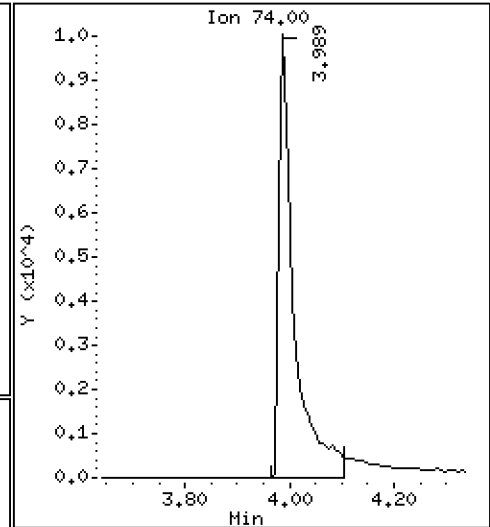
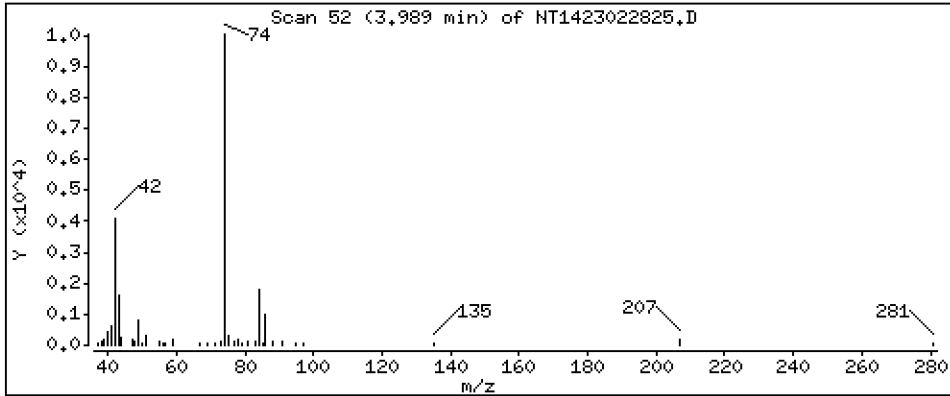
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

90 N-Nitrosodimethylamine

Concentration: 0,7333 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

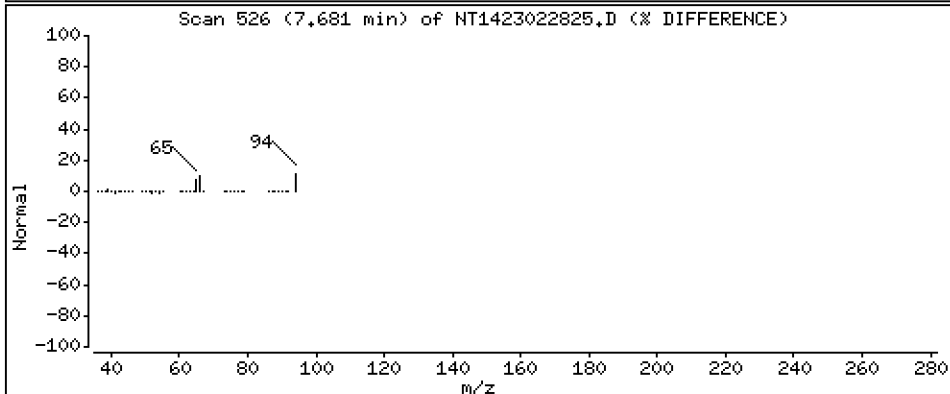
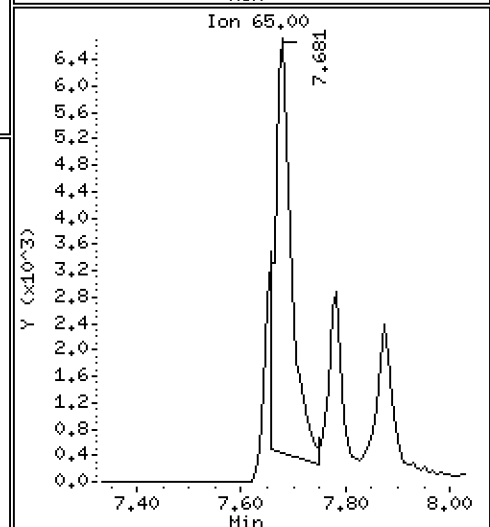
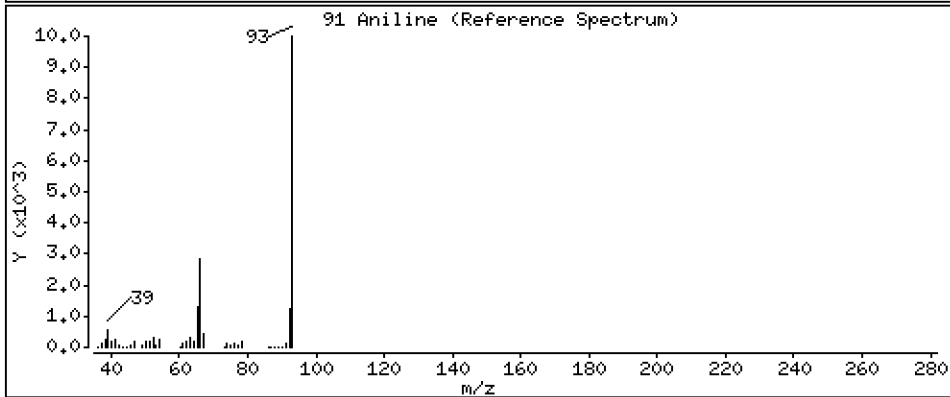
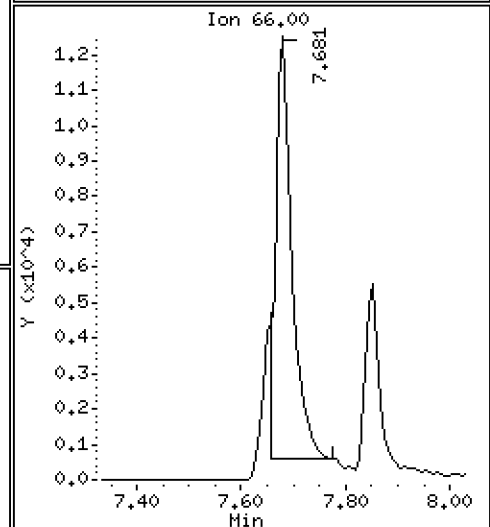
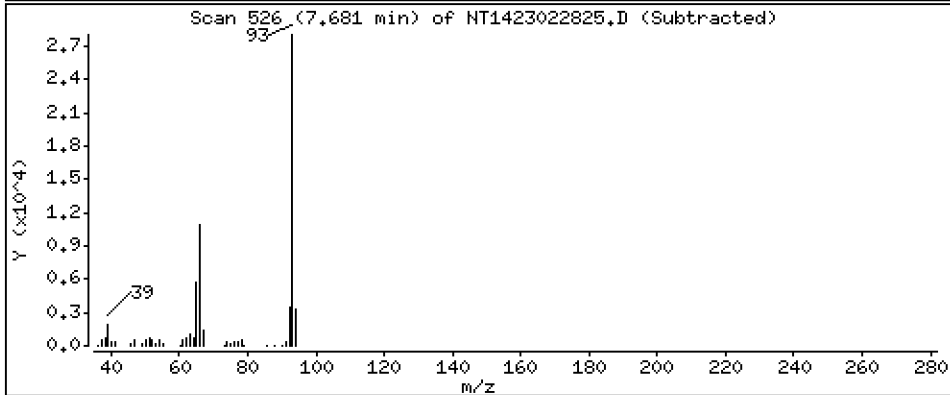
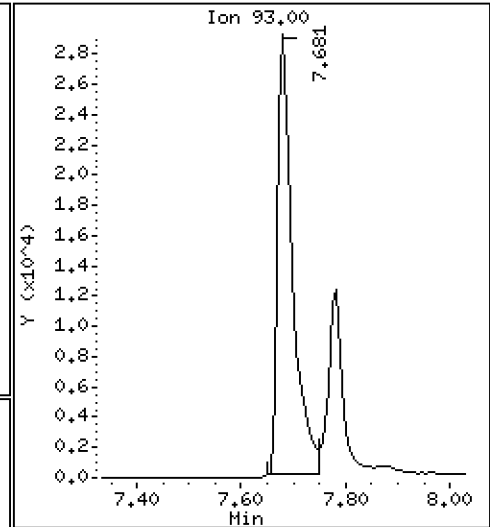
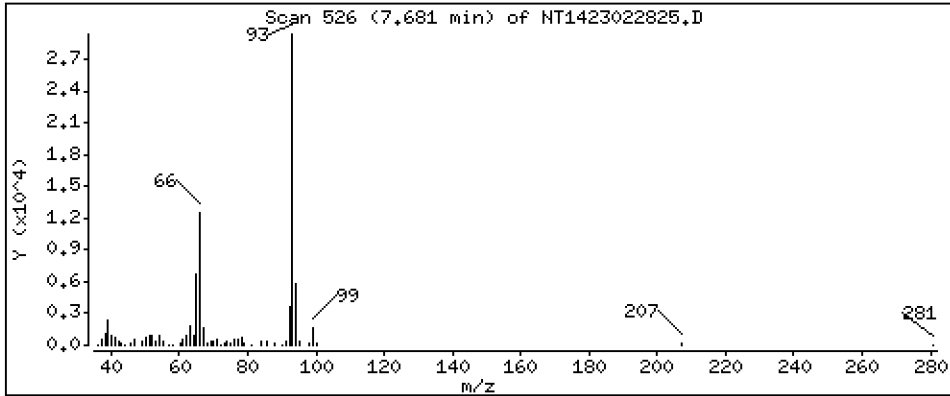
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

91 Aniline

Concentration: 0.9034 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

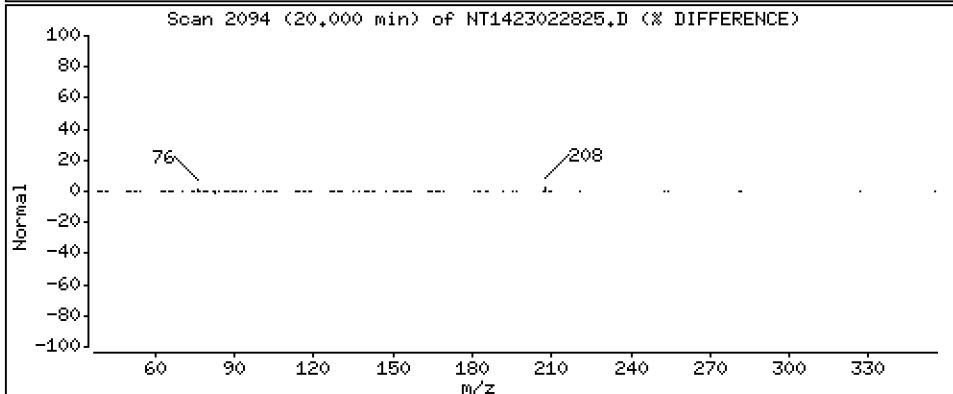
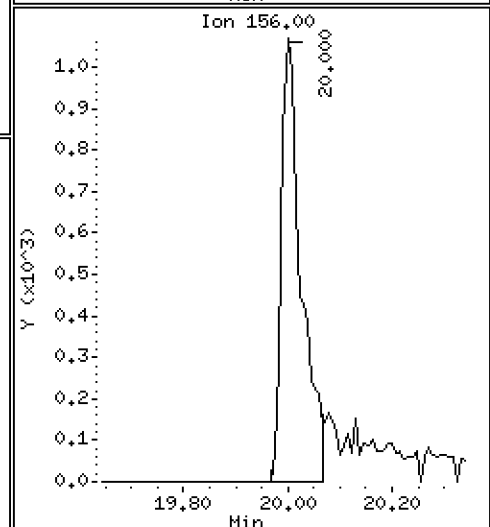
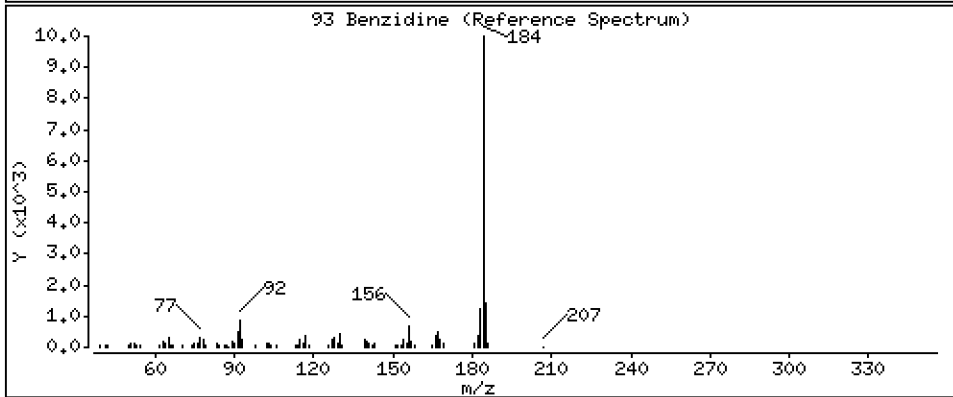
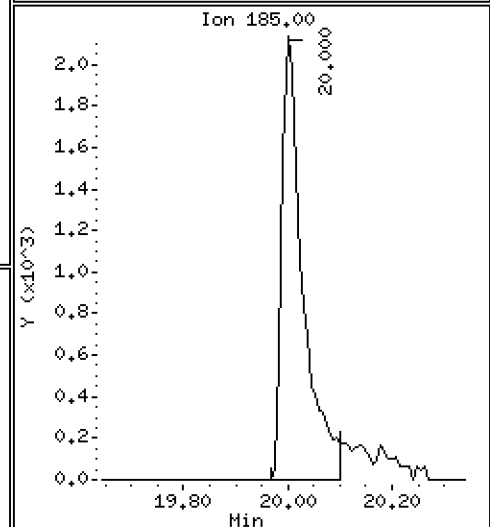
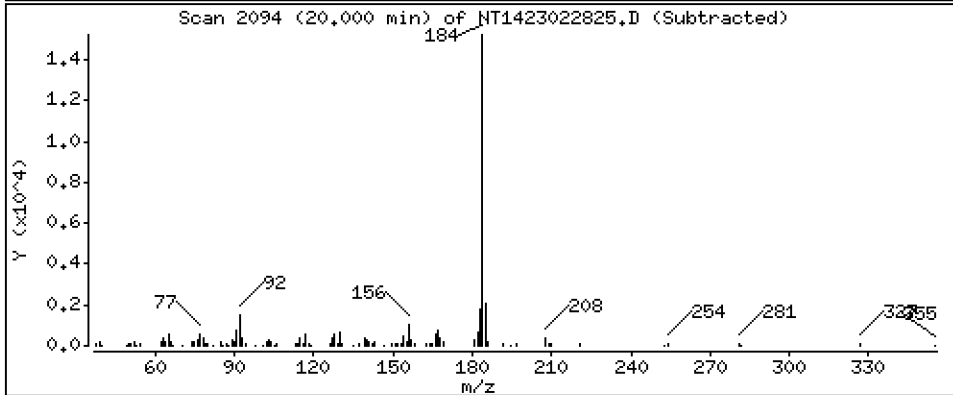
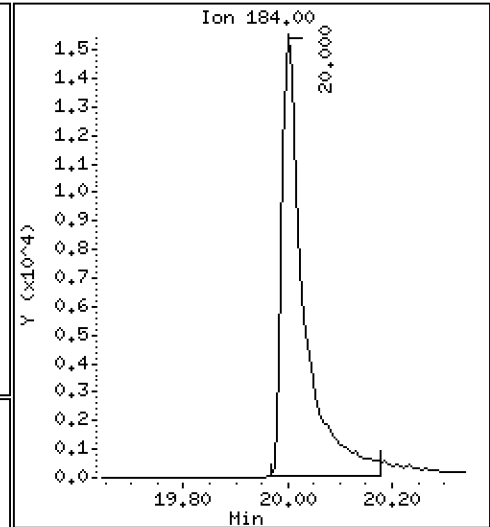
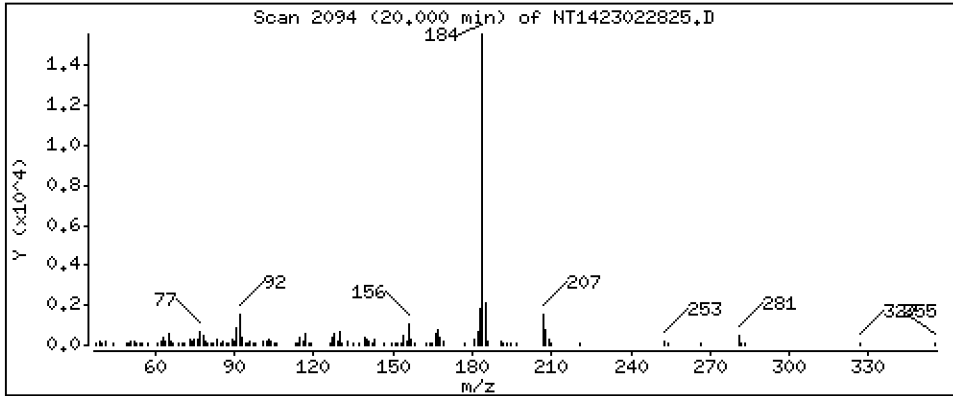
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

93 Benzidine

Concentration: 0,7531 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

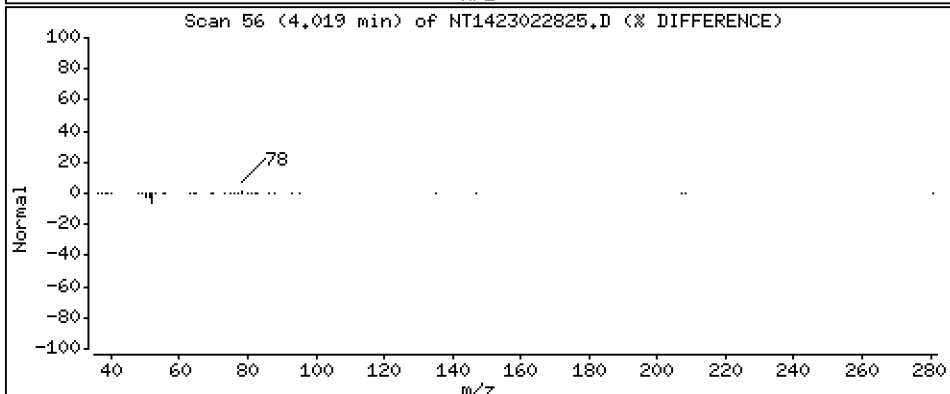
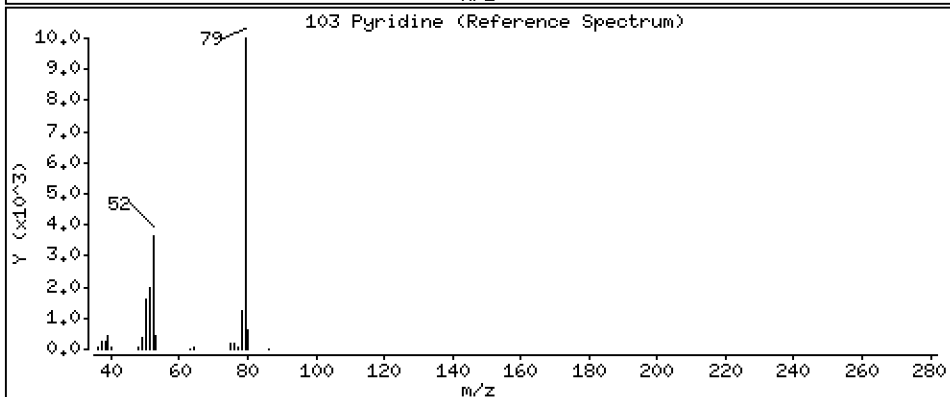
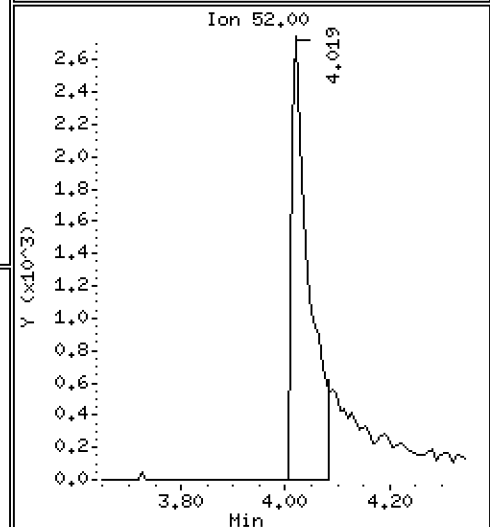
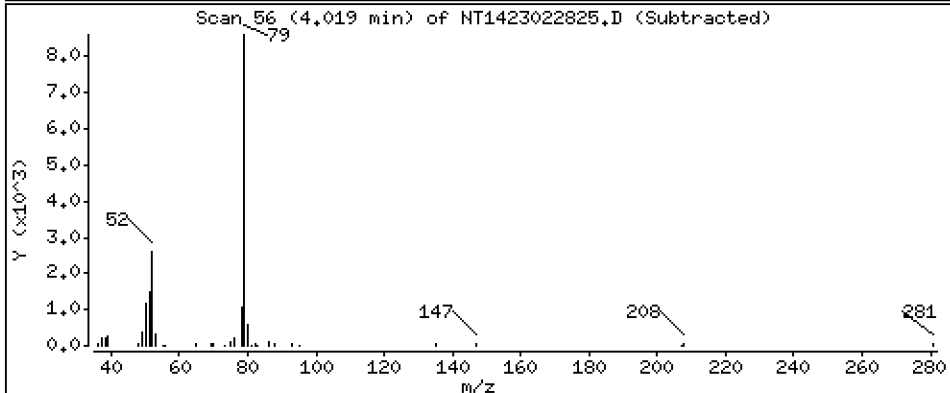
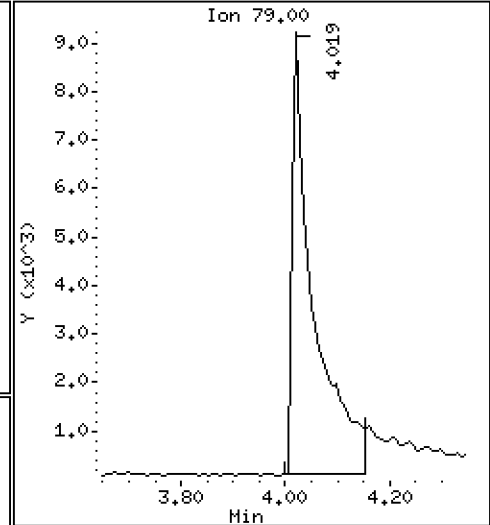
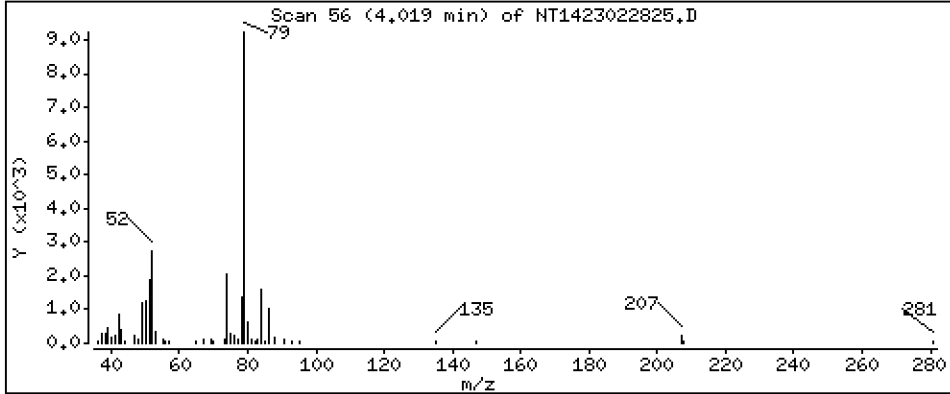
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

103 Pyridine

Concentration: 0,3342 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

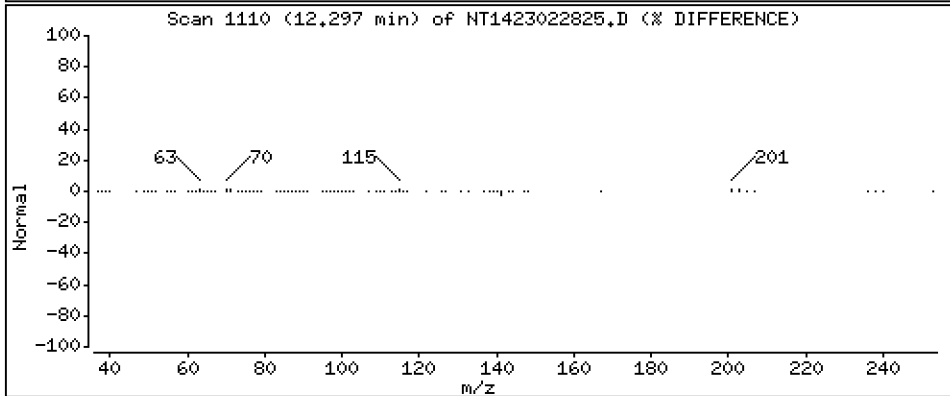
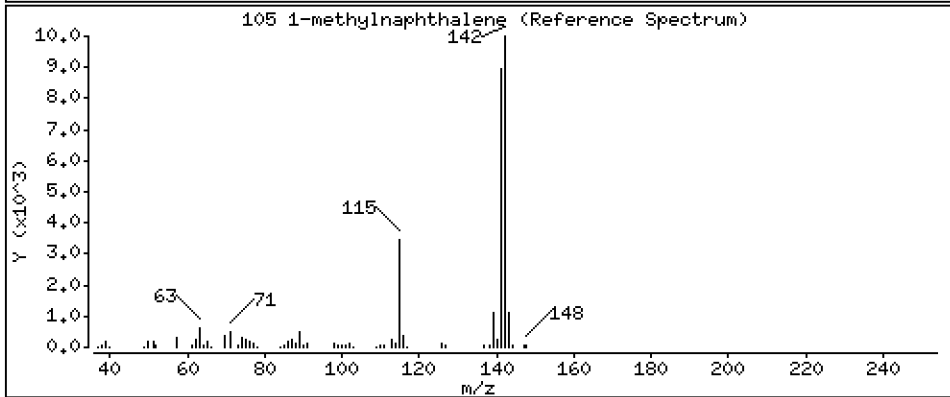
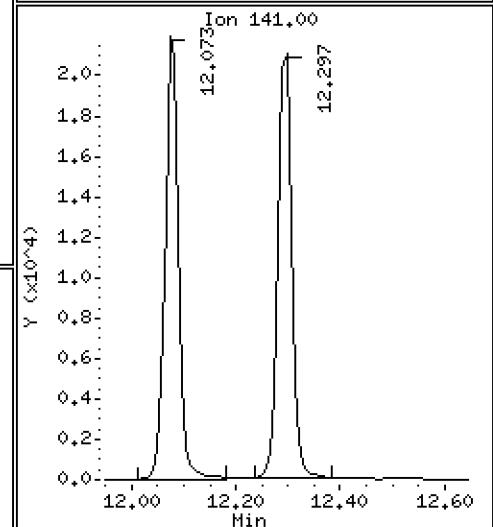
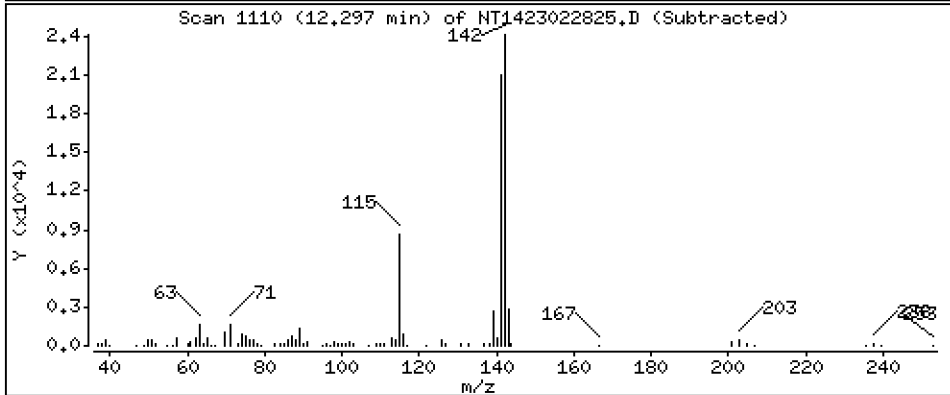
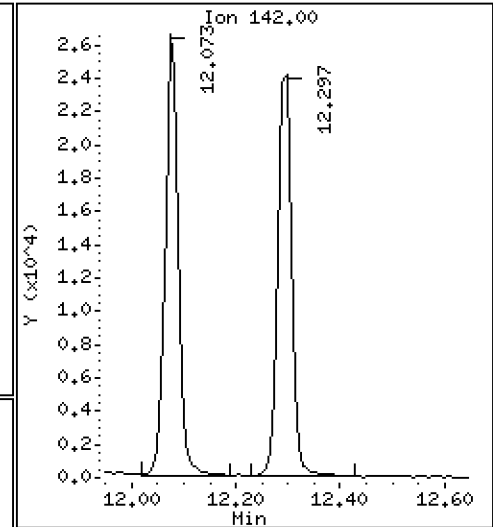
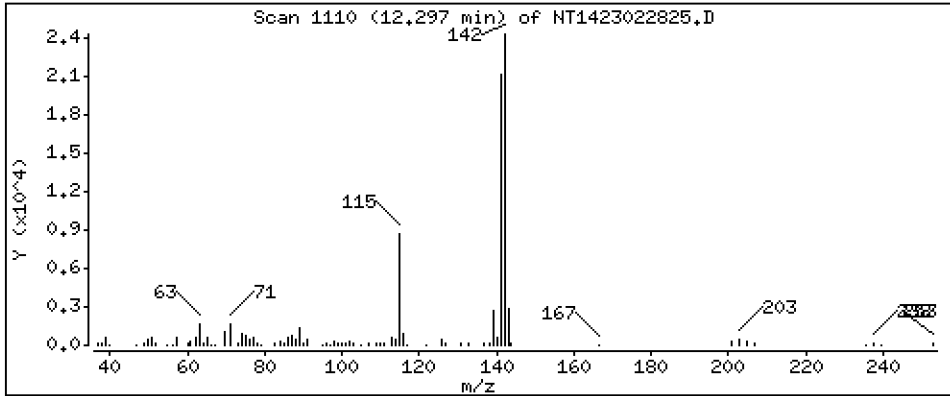
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 0,5112 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

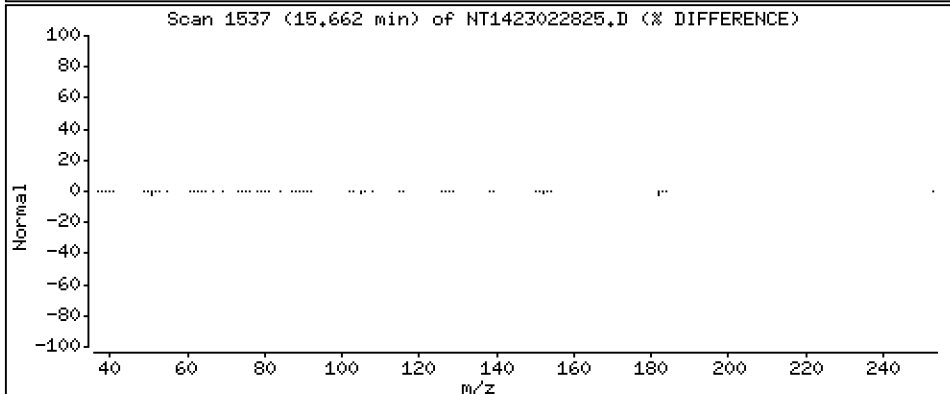
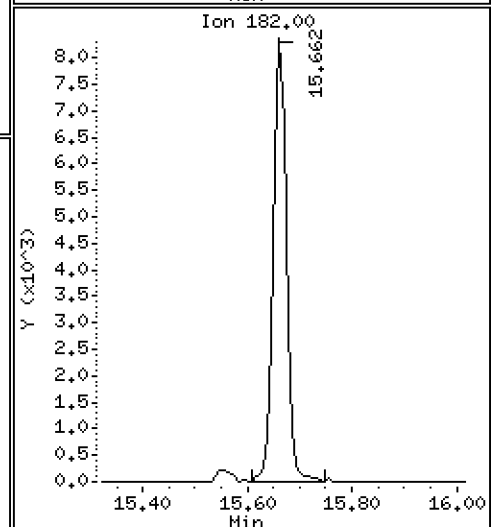
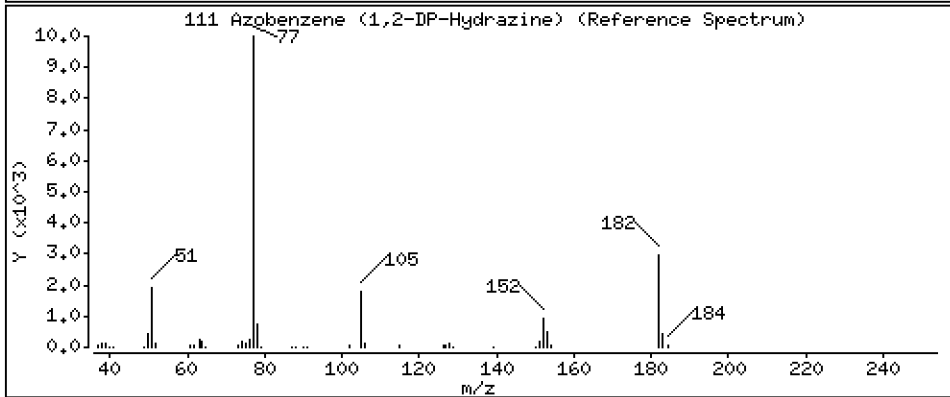
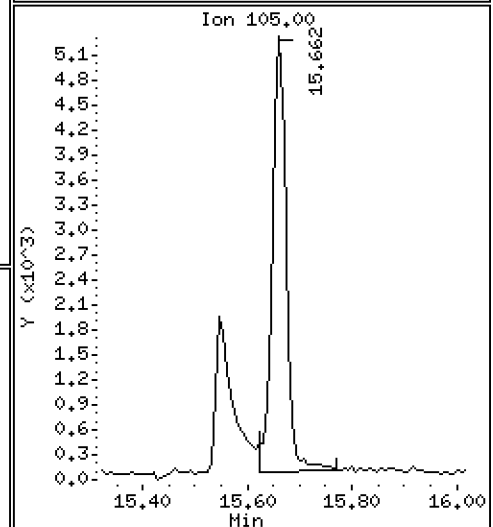
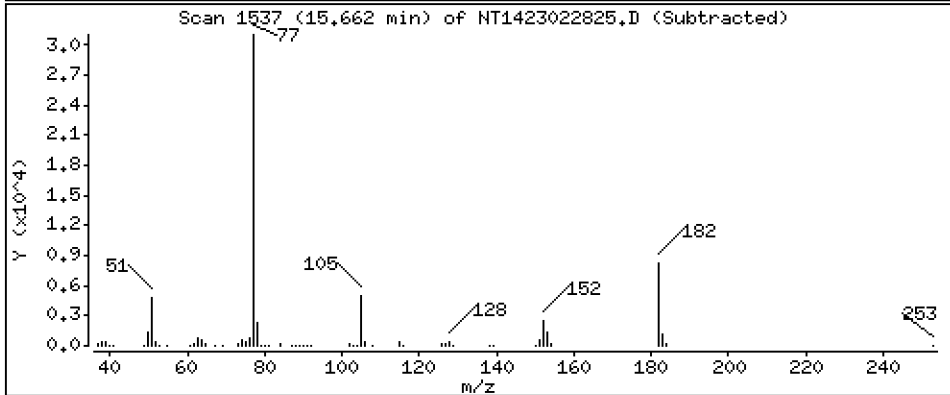
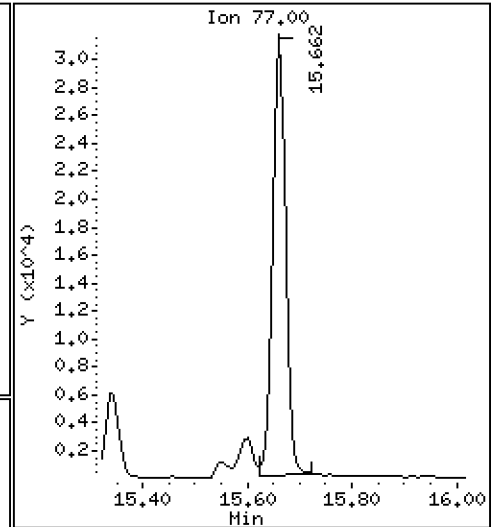
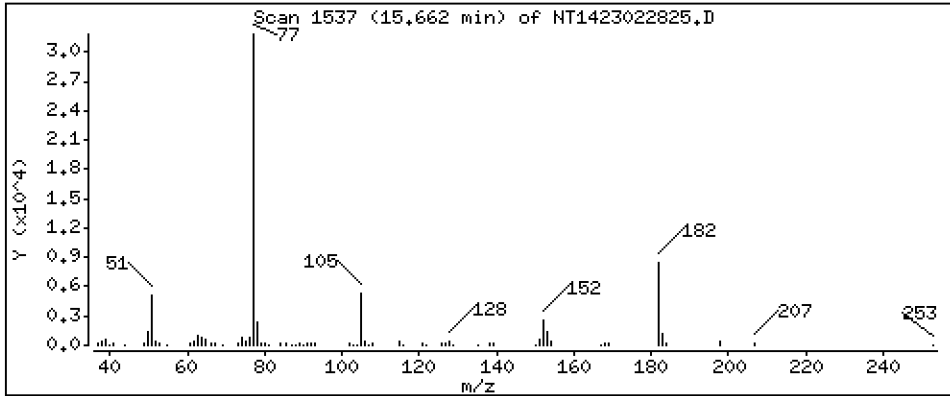
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 0,5712 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

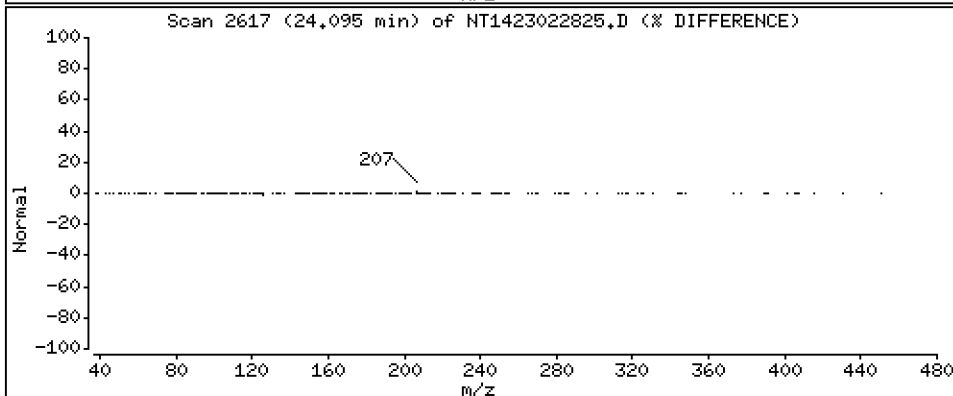
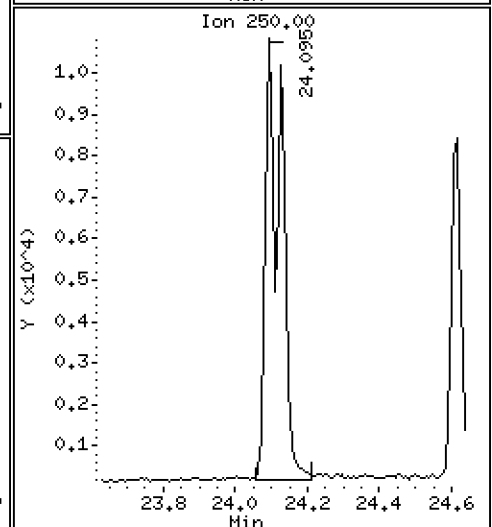
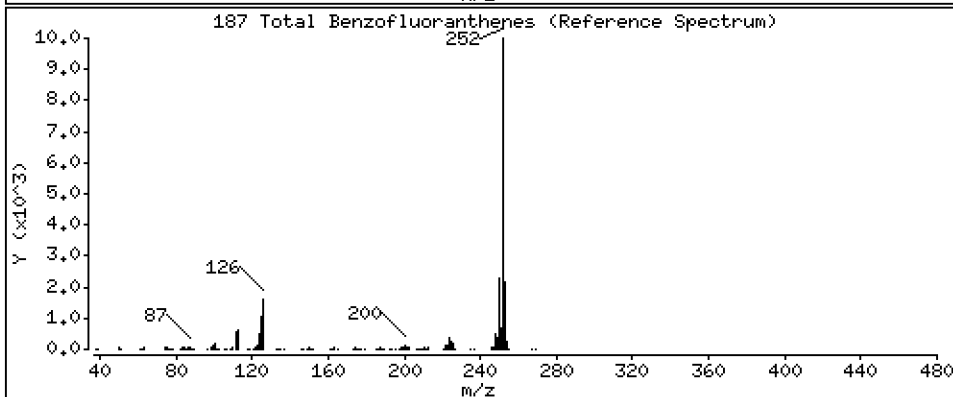
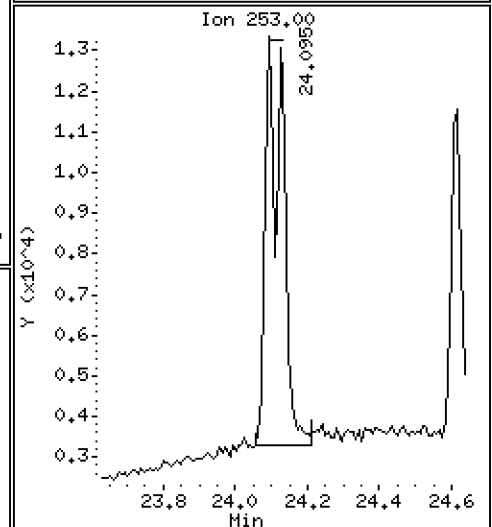
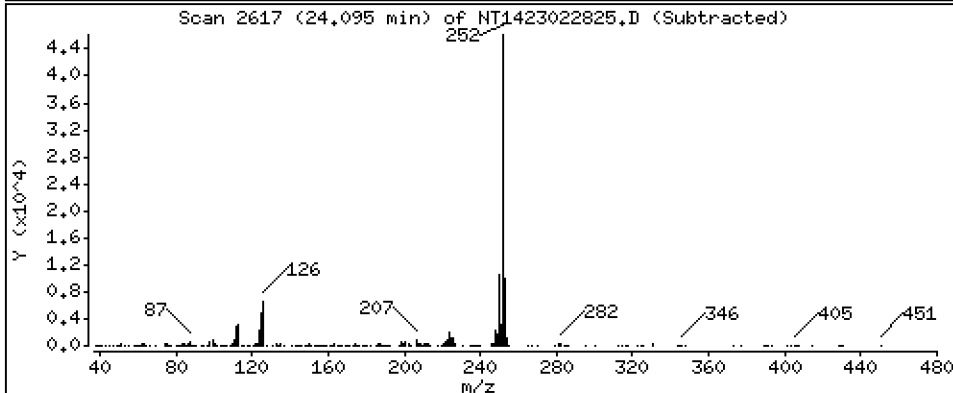
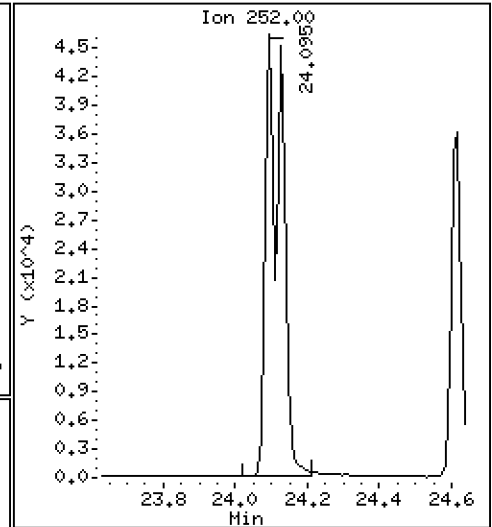
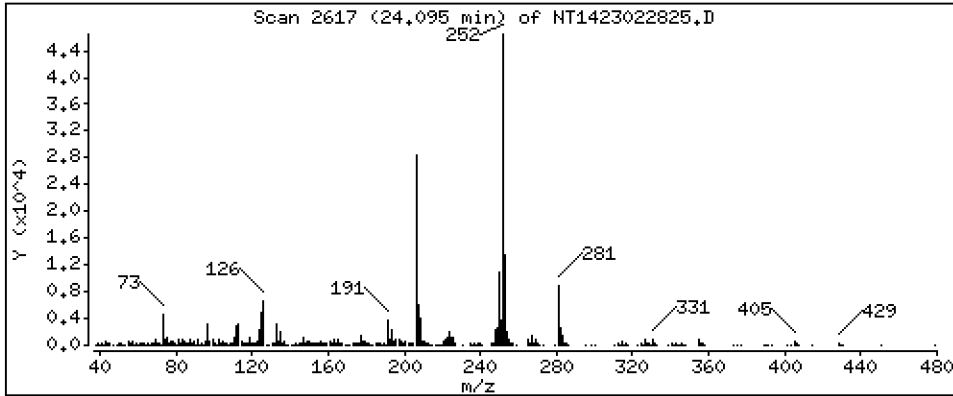
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 1,055 ug/mL



Date : 01-MAR-2023 16:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV2

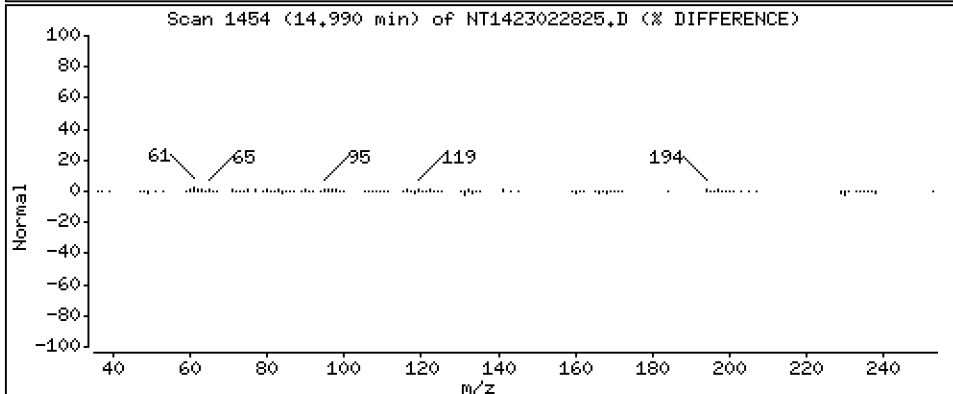
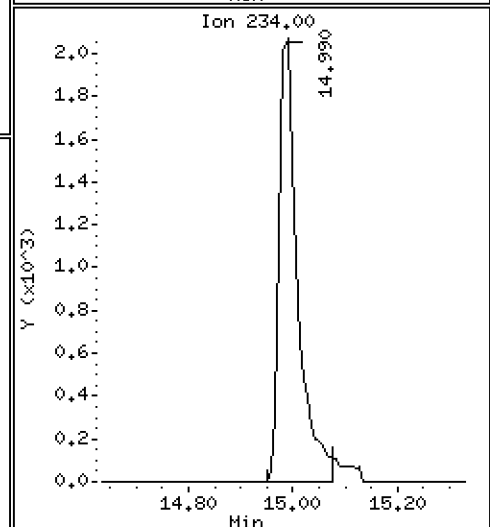
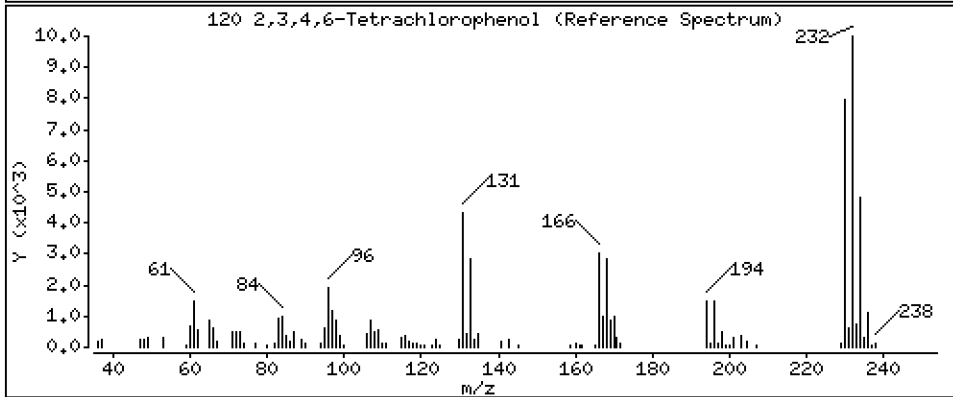
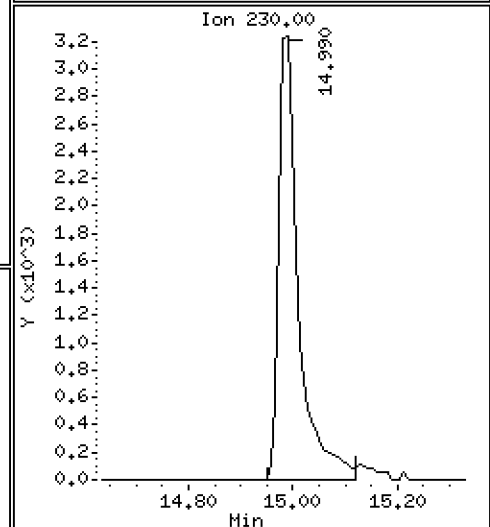
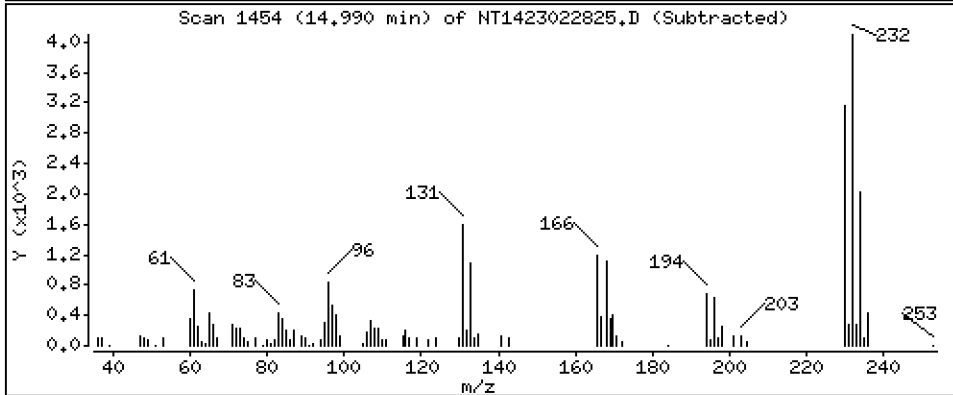
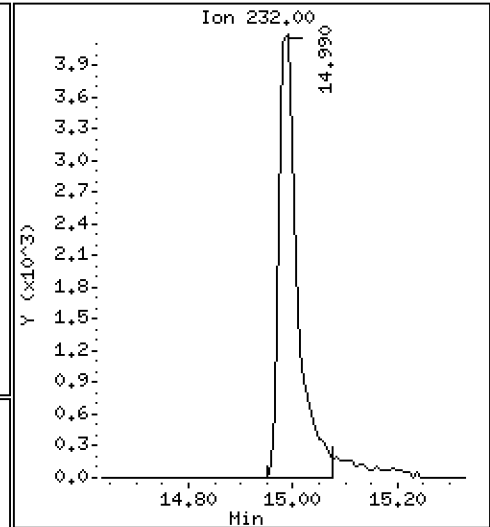
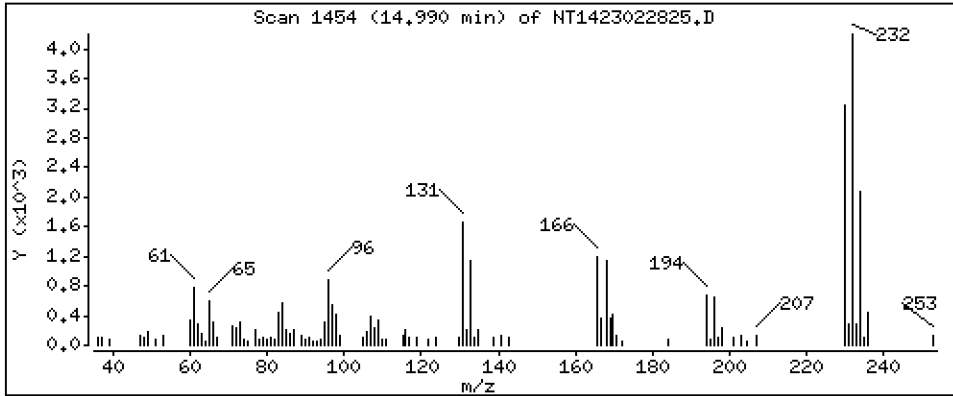
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

120 2,3,4,6-Tetrachlorophenol

Concentration: 0,3401 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230228.b\NT1423022825.D
 Lab Smp Id: SLB0374-LCV2
 Inj Date : 01-MAR-2023 16:04 MS Autotune Date: 17-MAY-2011 01:22
 Operator : JGR Inst ID: nt14.i
 Smp Info : SLB0374-LCV2
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt14.i\20230228.b\ABN.m
 Meth Date : 11-Mar-2023 09:11 van Quant Type: ISTD
 Cal Date : 28-FEB-2023 15:16 Cal File: NT1423022808.D
 Als bottle: 7
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: ICAL.sub
 Target Version: 4.14
 Processing Host: VANS-201906

| Compounds | QUANT | SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|---------------------------------|-------|-----|--------|--------|---------|----------|----------------|------------|
| | | | | | | | ON-COLUMN | FINAL |
| | MASS | | | | | | (ug/mL) | (ug/mL) |
| \$ 1 2-Fluorophenol | 112 | | 6.050 | 6.050 | (0.739) | 24383 | 0.69014 | 0.6901 |
| \$ 2 Phenol-d5 | 99 | | 7.634 | 7.634 | (0.932) | 37650 | 0.75058 | 0.7506 |
| 3 Phenol | 94 | | 7.657 | 7.657 | (0.935) | 29884 | 0.49931 | 0.4993 |
| \$ 5 2-Chlorophenol-d4 | 132 | | 7.850 | 7.850 | (0.958) | 32113 | 0.75290 | 0.7529 |
| 4 Bis(2-Chloroethyl)ether | 93 | | 7.781 | 7.781 | (0.950) | 21707 | 0.51480 | 0.5148 |
| 6 2-Chlorophenol | 128 | | 7.874 | 7.874 | (0.961) | 21368 | 0.48470 | 0.4847 |
| 7 1,3-Dichlorobenzene | 146 | | 8.129 | 8.129 | (0.992) | 25546 | 0.52581 | 0.5258 |
| * 8 1,4-Dichlorobenzene-d4 | 152 | | 8.191 | 8.191 | (1.000) | 130297 | 4.00000 | |
| 9 1,4-Dichlorobenzene | 146 | | 8.222 | 8.222 | (1.004) | 24260 | 0.50524 | 0.5052 |
| \$ 10 1,2-Dichlorobenzene-d4 | 152 | | 8.548 | 8.548 | (1.044) | 16395 | 0.51058 | 0.5106 |
| 12 1,2-Dichlorobenzene | 146 | | 8.571 | 8.571 | (1.046) | 23981 | 0.52085 | 0.5209 |
| 11 Benzyl alcohol | 108 | | 8.517 | 8.501 | (1.040) | 7511 | 0.28778 | 0.2878 |
| 14 2,2'-oxybis(1-Chloropropane) | 121 | | 8.789 | 8.789 | (1.073) | 6479 | 0.52179 | 0.5218 (M) |
| 13 2-Methylphenol | 108 | | 8.742 | 8.742 | (1.067) | 18670 | 0.49379 | 0.4938 |
| 17 Hexachloroethane | 117 | | 9.146 | 9.146 | (1.117) | 7573 | 0.41997 | 0.4200 |
| 16 N-Nitroso-di-n-propylamine | 70 | | 9.045 | 9.053 | (1.104) | 15781 | 0.54817 | 0.5482 |
| 15 4-Methylphenol | 108 | | 9.021 | 9.014 | (1.101) | 18566 | 0.42187 | 0.4219 |
| \$ 18 Nitrobenzene-d5 | 82 | | 9.285 | 9.285 | (0.873) | 24219 | 0.53982 | 0.5398 |
| 19 Nitrobenzene | 77 | | 9.324 | 9.316 | (0.876) | 23728 | 0.55036 | 0.5504 |
| 20 Isophorone | 82 | | 9.766 | 9.774 | (0.918) | 29206 | 0.43378 | 0.4338 |
| 21 2-Nitrophenol | 139 | | 9.945 | 9.945 | (0.935) | 8334 | 0.37342 | 0.3734 |
| 22 2,4-Dimethylphenol | 107 | | 10.038 | 10.038 | (0.943) | 43062 | 1.09561 | 1.096 |
| 23 Bis(2-Chloroethoxy)methane | 93 | | 10.224 | 10.224 | (0.961) | 21581 | 0.49789 | 0.4979 |
| 24 Benzoic acid | 105 | | 10.649 | 10.364 | (1.001) | 8835 | 0.56723 | 0.5672 (M) |
| 25 2,4-Dichlorophenol | 162 | | 10.410 | 10.402 | (0.978) | 34152 | 0.85893 | 0.8589 |
| 26 1,2,4-Trichlorobenzene | 180 | | 10.572 | 10.572 | (0.993) | 22471 | 0.50588 | 0.5059 |
| * 27 Naphthalene-d8 | 136 | | 10.642 | 10.649 | (1.000) | 458645 | 4.00000 | |
| 28 Naphthalene | 128 | | 10.688 | 10.688 | (1.004) | 64820 | 0.52984 | 0.5298 |
| 29 4-Chloroaniline | 127 | | 10.850 | 10.850 | (1.020) | 49527 | 0.94650 | 0.9465 |
| 30 Hexachlorobutadiene | 225 | | 11.059 | 11.066 | (1.039) | 14894 | 0.54949 | 0.5495 |
| 31 4-Chloro-3-methylphenol | 107 | | 11.848 | 11.840 | (1.113) | 34399 | 0.97231 | 0.9723 |
| 32 2-Methylnaphthalene | 142 | | 12.072 | 12.080 | (1.134) | 45932 | 0.50700 | 0.5070 |
| 33 Hexachlorocyclopentadiene | 237 | | 12.544 | 12.545 | (0.881) | 807 | 0.02907 | 0.02907 |

| Compounds | QUANT SIG | | | | | CONCENTRATIONS | |
|-----------------------------------|-----------|--------|--------|---------|----------|----------------------|------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | ON-COLUMN (ug/mL) | FINAL (ug/mL) |
| 34 2,4,6-Trichlorophenol | 196 | 12.715 | 12.715 | (0.893) | 24128 | 0.93333 | 0.9333 |
| 35 2,4,5-Trichlorophenol | 196 | 12.800 | 12.792 | (0.899) | 24519 | 0.87721 | 0.8772 |
| § 36 2-Fluorobiphenyl | 172 | 12.869 | 12.877 | (0.904) | 53901 | 0.52329 | 0.5233 |
| 37 2-Chloronaphthalene | 162 | 13.055 | 13.063 | (0.917) | 42981 | 0.52054 | 0.5205 |
| 38 2-Nitroaniline | 65 | 13.349 | 13.349 | (0.938) | 22569 | 1.04801 | 1.048 |
| 39 Dimethylphthalate | 163 | 13.790 | 13.798 | (0.969) | 45635 | 0.54823 | 0.5482 |
| 40 Acenaphthylene | 152 | 13.914 | 13.922 | (0.978) | 68668 | 0.56675 | 0.5668 |
| 41 2,6-Dinitrotoluene | 165 | 13.914 | 13.922 | (0.978) | 19398 | 0.99445 | 0.9944 |
| * 42 Acenaphthene-d10 | 164 | 14.232 | 14.232 | (1.000) | 264644 | 4.00000 | |
| 43 3-Nitroaniline | 138 | 14.201 | 14.201 | (0.998) | 18220 | 0.91134 | 0.9113 (M) |
| 44 Acenaphthene | 153 | 14.293 | 14.301 | (1.004) | 40422 | 0.52108 | 0.5211 |
| 45 2,4-Dinitrophenol | 184 | 14.479 | 14.417 | (1.017) | 4113 | 0.33346 | 0.3335 (M) |
| 46 Dibenzofuran | 168 | 14.626 | 14.626 | (1.028) | 62717 | 0.50811 | 0.5081 |
| 47 4-Nitrophenol | 109 | 14.626 | 14.579 | (1.028) | 7202 | 0.72835 | 0.7283 (M) |
| 48 2,4-Dinitrotoluene | 165 | 14.719 | 14.726 | (1.034) | 24221 | 0.86252 | 0.8625 |
| 50 Diethylphthalate | 149 | 15.237 | 15.252 | (1.071) | 42301 | 0.54343 | 0.5434 |
| 49 Fluorene | 166 | 15.329 | 15.330 | (1.077) | 55678 | 0.53537 | 0.5354 |
| 51 4-Chlorophenyl-phenylether | 204 | 15.345 | 15.345 | (1.078) | 28067 | 0.50722 | 0.5072 |
| 52 4-Nitroaniline | 138 | 15.469 | 15.469 | (1.087) | 15994 | 0.80704 | 0.8070 |
| 53 4,6-Dinitro-2-methylphenol | 198 | 15.553 | 15.553 | (0.902) | 12809 | 0.76541 | 0.7654 |
| 54 N-Nitrosodiphenylamine | 169 | 15.600 | 15.607 | (0.905) | 35122 | 0.55522 | 0.5552 |
| § 55 2,4,6-Tribromophenol | 330 | 15.869 | 15.870 | (1.115) | 8877 | 0.62352 | 0.6235 |
| 56 4-Bromophenyl-phenylether | 248 | 16.332 | 16.340 | (0.947) | 14281 | 0.51351 | 0.5135 |
| 57 Hexachlorobenzene | 284 | 16.626 | 16.626 | (0.965) | 15894 | 0.51981 | 0.5198 |
| 58 Pentachlorophenol | 266 | 17.021 | 17.005 | (0.987) | 6162 | 0.42793 | 0.4279 (M) |
| * 59 Phenanthrene-d10 | 188 | 17.237 | 17.237 | (1.000) | 503378 | 4.00000 | |
| 60 Phenanthrene | 178 | 17.284 | 17.291 | (1.003) | 68635 | 0.51255 | 0.5125 |
| 61 Anthracene | 178 | 17.376 | 17.384 | (1.008) | 65695 | 0.51894 | 0.5189 |
| 62 Carbazole | 167 | 17.732 | 17.732 | (1.029) | 54926 | 0.49504 | 0.4950 |
| 63 Di-n-butylphthalate | 149 | 18.583 | 18.583 | (1.078) | 68478 | 0.47836 | 0.4784 |
| 64 Fluoranthene | 202 | 19.705 | 19.705 | (0.881) | 71411 | 0.51288 | 0.5129 |
| 65 Pyrene | 202 | 20.131 | 20.139 | (0.900) | 75143 | 0.51188 | 0.5119 |
| § 66 Terphenyl-d14 | 244 | 20.464 | 20.471 | (0.915) | 58216 | 0.51507 | 0.5151 |
| 67 Butylbenzylphthalate | 149 | 21.431 | 21.439 | (0.958) | 26564 | 0.51187 | 0.5119 |
| 68 Benzo(a)anthracene | 228 | 22.330 | 22.330 | (0.999) | 67033 | 0.54529 | 0.5453 |
| * 69 Chrysene-d12 | 240 | 22.361 | 22.361 | (1.000) | 366987 | 4.00000 | |
| 70 3,3'-Dichlorobenzidine | 252 | 22.314 | 22.322 | (0.998) | 65094 | 1.85418 | 1.854 |
| 71 Chrysene | 228 | 22.399 | 22.407 | (1.002) | 62929 | 0.53257 | 0.5326 |
| 72 bis(2-Ethylhexyl)phthalate | 149 | 22.484 | 22.492 | (0.958) | 37013 | 0.45397 | 0.4540 |
| * 134 Di-n-octylphthalate-d4 | 153 | 23.468 | 23.468 | (1.000) | 534079 | 4.00000 | |
| 73 Di-n-octylphthalate | 149 | 23.475 | 23.483 | (1.000) | 70363 | 0.50037 | 0.5004 |
| 74 Benzo(b)fluoranthene | 252 | 24.095 | 24.103 | (0.975) | 73828 | 0.51526 | 0.5153 |
| 75 Benzo(k)fluoranthene | 252 | 24.126 | 24.134 | (0.976) | 82321 | 0.53255 | 0.5325 |
| 76 Benzo(a)pyrene | 252 | 24.614 | 24.621 | (0.996) | 67241 | 0.54699 | 0.5470 |
| * 77 Perylene-d12 | 264 | 24.706 | 24.707 | (1.000) | 433681 | 4.00000 | |
| 78 Indeno(1,2,3-cd)pyrene | 276 | 26.784 | 26.784 | (1.084) | 50421 | 0.32584 | 0.3258 |
| 79 Dibenzo(a,h)anthracene | 278 | 26.792 | 26.792 | (1.084) | 46446 | 0.35340 | 0.3534 |
| 80 Benzo(g,h,i)perylene | 276 | 27.375 | 27.375 | (1.108) | 31480 | 0.23325 | 0.2332 |
| 90 N-Nitrosodimethylamine | 74 | 3.988 | 3.988 | (0.487) | 19578 | 0.73328 | 0.7333 |
| 91 Aniline | 93 | 7.680 | 7.681 | (0.938) | 55676 | 0.90344 | 0.9034 |
| 93 Benzidine | 184 | 19.999 | 19.992 | (0.894) | 44776 | 0.75309 | 0.7531 |
| 103 Pyridine | 79 | 4.019 | 3.996 | (0.491) | 26398 | 0.33418 | 0.3342 |
| 105 1-methylnaphthalene | 142 | 12.297 | 12.297 | (1.156) | 42635 | 0.51118 | 0.5112 |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77 | 15.661 | 15.669 | (1.100) | 51044 | 0.57119 | 0.5712 |

| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|-------------------------------|-----------|--------|--------|---------|----------|----------------------|------------------|
| | | | | | | ON-COLUMN (ug/mL) | FINAL (ug/mL) |
| 187 Total Benzofluoranthenes | 252 | 24.095 | 24.134 | (0.975) | 147811 | 1.05456 | 1.055 |
| 120 2,3,4,6-Tetrachlorophenol | 232 | 14.989 | 14.981 | (1.053) | 10135 | 0.34010 | 0.3401 |

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 01-MAR-2023
 Lab File ID: NT1423022825.D Calibration Time: 13:39
 Lab Smp Id: SLB0374-LCV2
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: JGR
 Method File: \\target\share\chem3\nt14.i\20230228.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|--------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 125853 | 62927 | 251706 | 130297 | 3.53 |
| 27 Naphthalene-d8 | 454961 | 227481 | 909922 | 458645 | 0.81 |
| 42 Acenaphthene-d10 | 273779 | 136890 | 547558 | 264644 | -3.34 |
| 59 Phenanthrene-d10 | 520384 | 260192 | 1040768 | 503378 | -3.27 |
| 69 Chrysene-d12 | 399183 | 199592 | 798366 | 366987 | -8.07 |
| 134 Di-n-octylphthala | 602810 | 301405 | 1205620 | 534079 | -11.40 |
| 77 Perylene-d12 | 478887 | 239444 | 957774 | 433681 | -9.44 |

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

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

REVIEW SUMMARY FOR FILE - NT1423022825.D

Lab ID: SLB0374-LCV2
nt14.i, ABN.m, 01-MAR-2023 16:04

RT CO-ELUTION COMPOUNDS

13.915 Acenaphthylene and 2,6-Dinitrotoluene

Quant Method: ICAL

RRT CHECK

| RRT | CCV RRT | DELTA | COMPOUND |
|-------|---------|--------|--------------|
| 1.001 | 0.973 | 0.0276 | Benzoic acid |

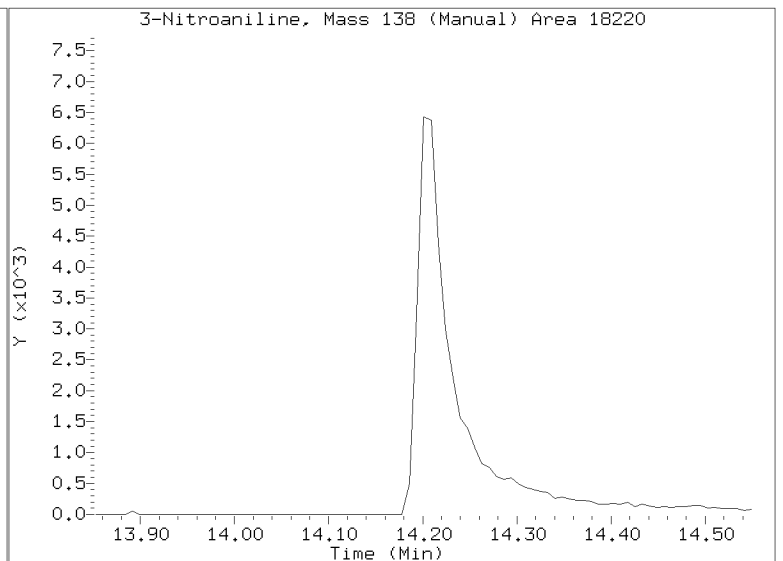
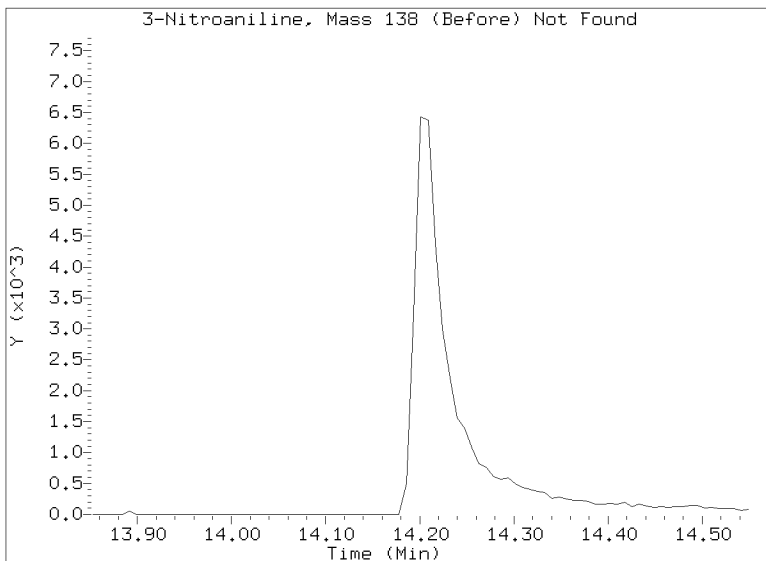
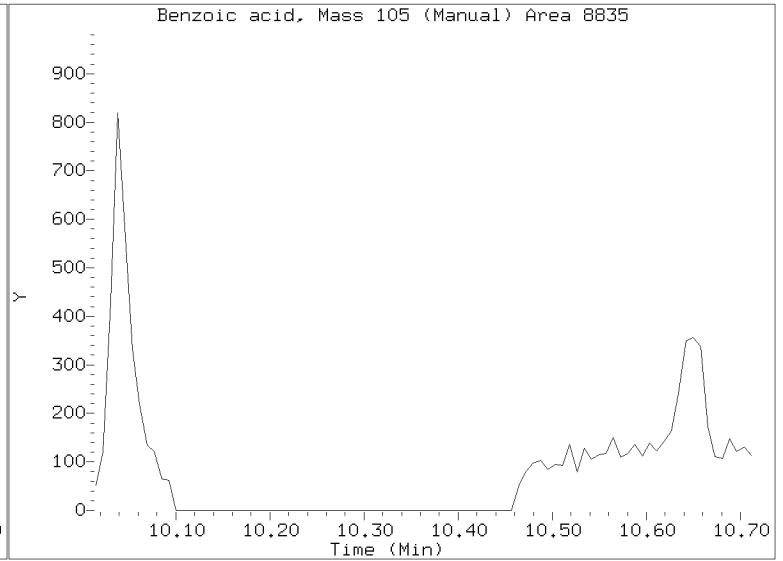
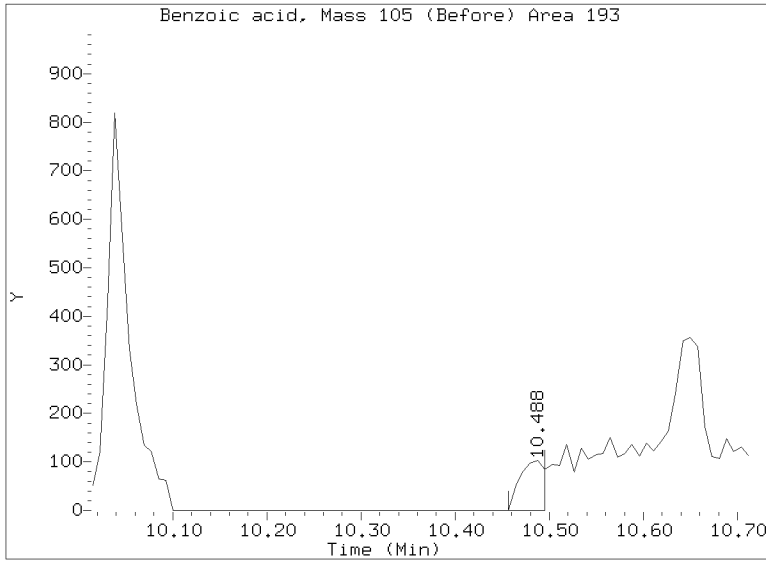
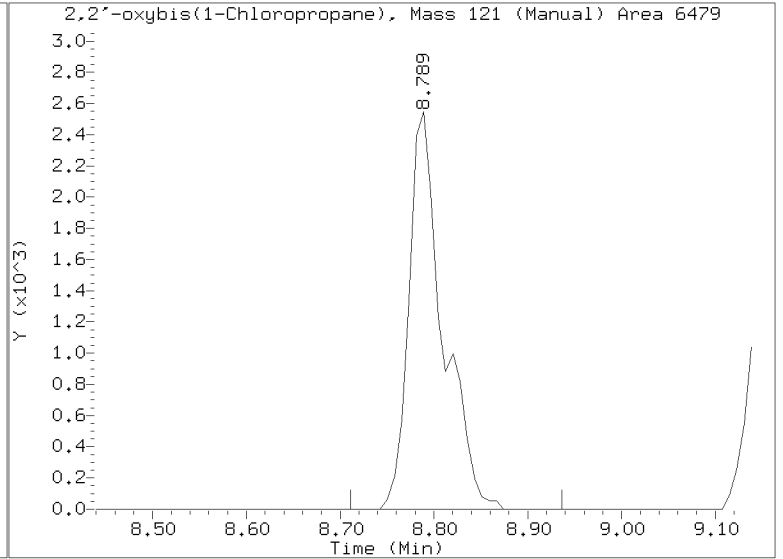
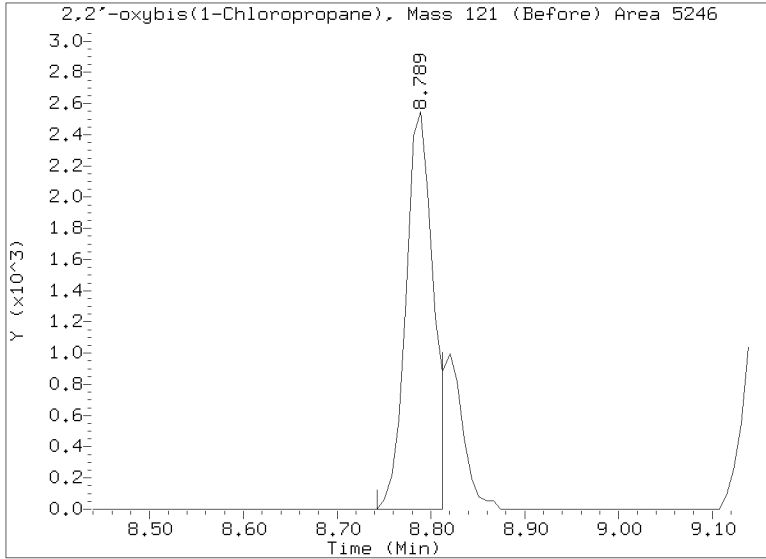
RRT check based on Ccal File: NT1423022821.D

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

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

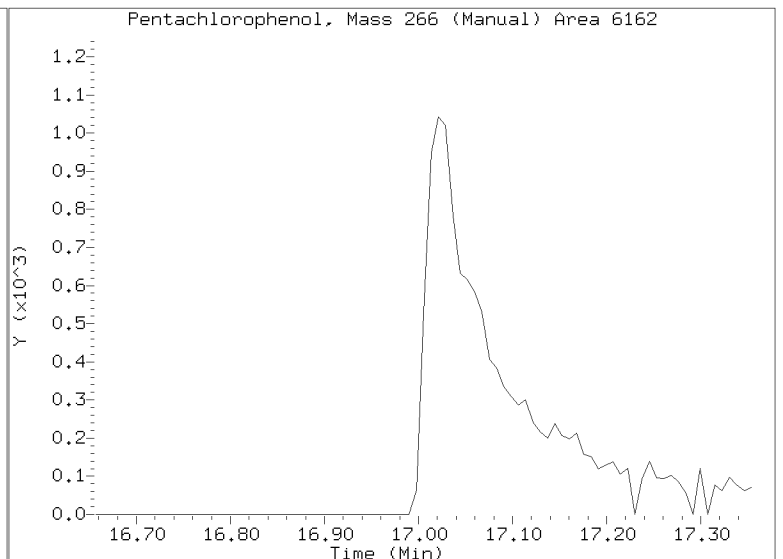
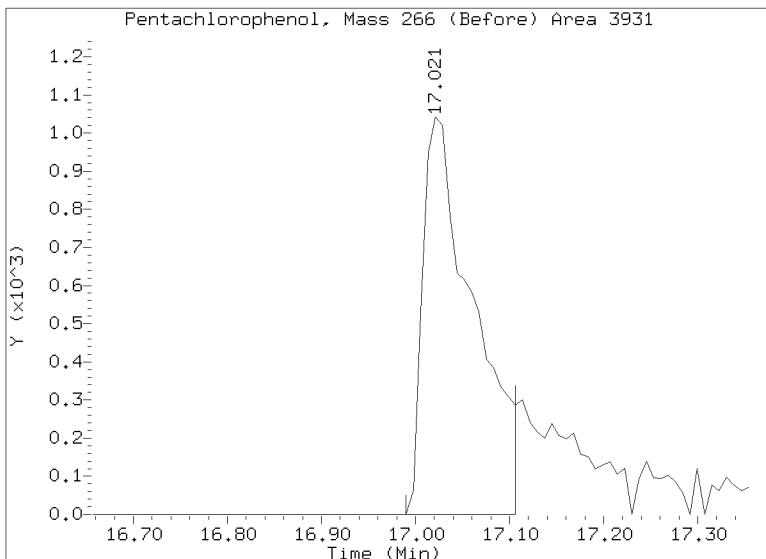
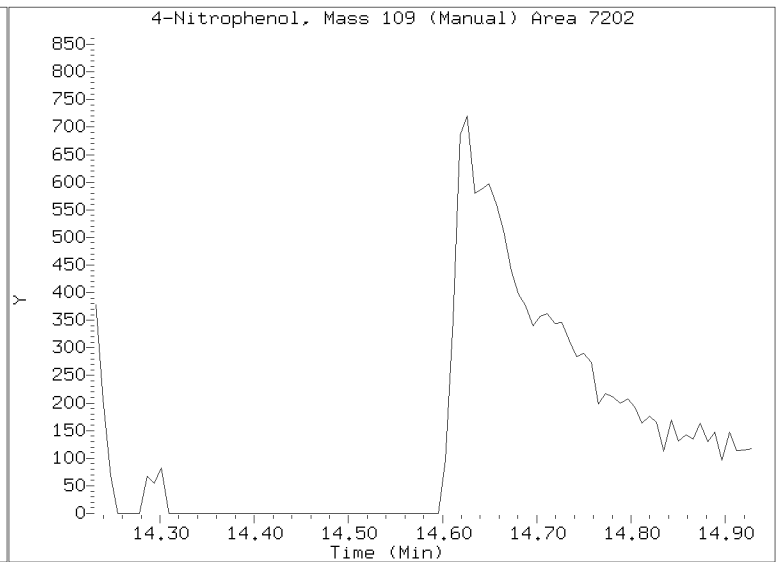
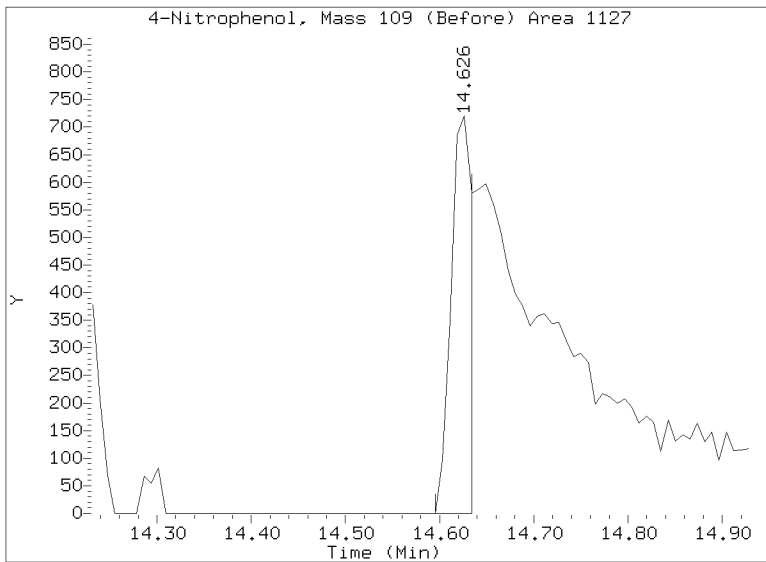
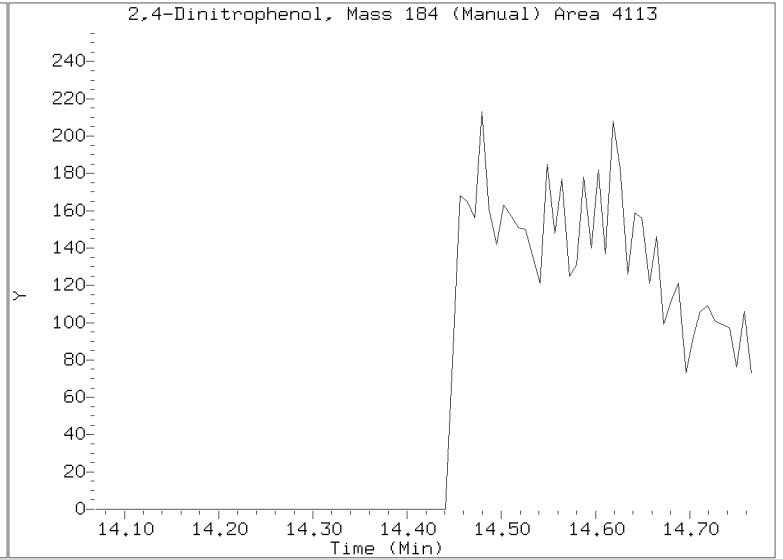
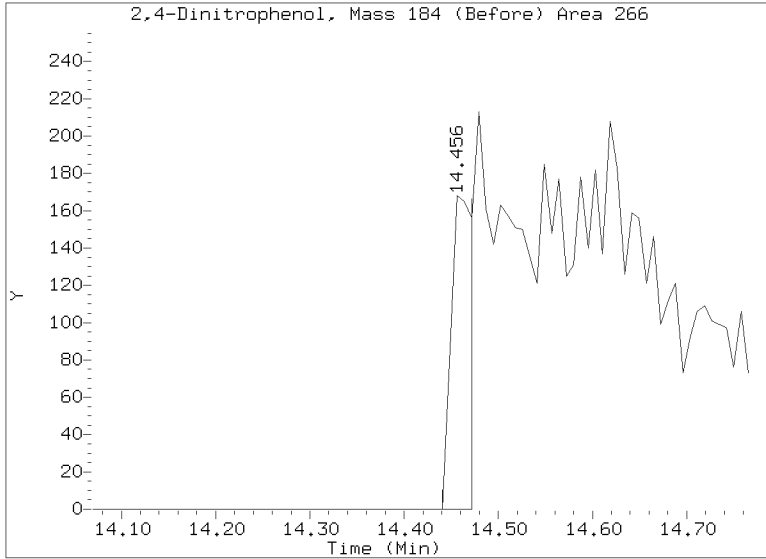
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230228.b/NT1423022825.D
Injection Date: 01-MAR-2023 16:04
Lab ID:SLB0374-LCV2 Client ID:
Report Date: 03/11/2023 09:11



Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230228.b/NT1423022825.D
Injection Date: 01-MAR-2023 16:04
Lab ID:SLB0374-LCV2 Client ID:
Report Date: 03/11/2023 09:11





**LOW-CONCENTRATION
CONTINUING CALIBRATION CHECK
EPA 8270E**

| | | | |
|----------------|----------------------------------|-------------------|------------------------|
| Laboratory: | <u>Analytical Resources, LLC</u> | SDG: | <u>23A0180</u> |
| Client: | <u>Anchor QEA, LLC</u> | Project: | <u>AOC5 MR Phase 1</u> |
| Instrument ID: | <u>NT14</u> | Calibration: | <u>GC00033</u> |
| Lab File ID: | <u>NT1423022838.D</u> | Calibration Date: | <u>02/28/2023</u> |
| Sequence: | <u>SLB0374</u> | Injection Date: | <u>03/01/23</u> |
| Lab Sample ID: | <u>SLB0374-LCV3</u> | Injection Time: | <u>23:52</u> |
| Sequence Name: | <u>ABN 0.2</u> | | |

| COMPOUND | TYPE | CONC. (ug/mL) | | RESPONSE FACTOR (RRF) | | | % DRIFT/DIFF | |
|------------------------------|------|---------------|-------|-----------------------|-----------|-----|--------------|---------|
| | | STD | CCV | ICAL | CCV | MIN | CCV | LIMIT |
| Phenol | A | 0.20000 | 0.2 | 1.8373500 | 2.1399280 | | 16.5 | +/-50 |
| bis(2-chloroethyl) ether | A | 0.20000 | 0.2 | 1.5312550 | 1.4461430 | | 11.5 | +/-50 |
| 2-Chlorophenol | A | 0.20000 | 0.2 | 1.3533690 | 1.2261880 | | -9.4 | +/-50 |
| 1,3-Dichlorobenzene | A | 0.20000 | 0.2 | 1.4914740 | 1.5610170 | | 4.7 | +/-50 |
| 1,4-Dichlorobenzene | A | 0.20000 | 0.2 | 1.4740600 | 1.5762280 | | 6.9 | +/-50 |
| 1,2-Dichlorobenzene | A | 0.20000 | 0.2 | 1.4134490 | 1.5055910 | | 6.5 | +/-50 |
| Benzyl Alcohol | A | 0.20000 | 0.09 | 0.6439892 | 0.3773156 | | -52.9 | +/-50 * |
| 2,2'-Oxybis(1-chloropropane) | A | 0.20000 | 0.2 | 0.3811859 | 0.4003951 | | 5.0 | +/-50 |
| 2-Methylphenol | A | 0.20000 | 0.2 | 1.1607310 | 0.9971413 | | -14.1 | +/-50 |
| Hexachloroethane | A | 0.20000 | 0.1 | 0.5535732 | 0.4072141 | | -26.4 | +/-50 |
| N-Nitroso-di-n-Propylamine | A | 0.20000 | 0.2 | 0.8837751 | 0.9209088 | | 4.2 | +/-50 |
| 4-Methylphenol | A | 0.20000 | 0.1 | 1.1353050 | 0.7569042 | | -44.1 | +/-50 |
| Nitrobenzene | A | 0.20000 | 0.2 | 0.3760061 | 0.3757856 | | -0.06 | +/-50 |
| Isophorone | A | 0.20000 | 0.2 | 0.4996273 | 0.4638919 | | -21.1 | +/-50 |
| 2-Nitrophenol | A | 0.20000 | 0.2 | 0.1467597 | 0.1504821 | | -22.7 | +/-50 |
| 2,4-Dimethylphenol | A | 0.40000 | 0.4 | 0.3427845 | 0.3450669 | | 0.7 | +/-50 |
| Bis(2-Chloroethoxy)methane | A | 0.20000 | 0.2 | 0.3780235 | 0.3464991 | | -8.3 | +/-50 |
| 2,4-Dichlorophenol | A | 0.40000 | 0.3 | 0.2946235 | 0.2777030 | | -20.2 | +/-50 |
| 1,2,4-Trichlorobenzene | A | 0.20000 | 0.2 | 0.3874001 | 0.3862062 | | -0.3 | +/-50 |
| Naphthalene | A | 0.20000 | 0.2 | 1.0669580 | 1.1499760 | | 7.8 | +/-50 |
| Benzoic acid | A | 0.80000 | 0.08 | 0.1358415 | 0.0138777 | | -89.8 | +/-50 * |
| 4-Chloroaniline | A | 0.40000 | 0.3 | 0.4563565 | 0.3966022 | | -13.1 | +/-50 |
| Hexachlorobutadiene | A | 0.20000 | 0.2 | 0.2363916 | 0.2101416 | | -11.1 | +/-50 |
| 4-Chloro-3-Methylphenol | A | 0.40000 | 0.3 | 0.3085482 | 0.2512563 | | -18.6 | +/-50 |
| 2-Methylnaphthalene | A | 0.20000 | 0.2 | 0.7901196 | 0.7605102 | | -3.7 | +/-50 |
| Hexachlorocyclopentadiene | A | 0.40000 | 0.003 | 0.3443795 | 0.0029889 | | -99.3 | +/-50 * |
| 2,4,6-Trichlorophenol | A | 0.40000 | 0.3 | 0.3907367 | 0.3087776 | | -21.0 | +/-50 |
| 2,4,5-Trichlorophenol | A | 0.40000 | 0.3 | 0.4224702 | 0.3656103 | | -13.5 | +/-50 |
| 2-Chloronaphthalene | A | 0.20000 | 0.2 | 1.2480280 | 1.2292210 | | -1.5 | +/-50 |
| 2-Nitroaniline | A | 0.40000 | 0.3 | 0.3254949 | 0.2691750 | | -17.3 | +/-50 |
| Acenaphthylene | A | 0.20000 | 0.2 | 1.8312950 | 2.0196040 | | 10.3 | +/-50 |
| Dimethylphthalate | A | 0.20000 | 0.2 | 1.2581570 | 1.3180960 | | 4.8 | +/-50 |
| 2,6-Dinitrotoluene | A | 0.40000 | 0.4 | 0.2948315 | 0.2675047 | | -9.3 | +/-50 |
| Acenaphthene | A | 0.20000 | 0.2 | 1.1724930 | 1.2451320 | | 6.2 | +/-50 |

* Values outside of QC limits



LOW-CONCENTRATION
CONTINUING CALIBRATION CHECK
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: NT14

Calibration: GC00033

Lab File ID: NT1423022838.D

Calibration Date: 02/28/2023

Sequence: SLB0374

Injection Date: 03/01/23

Lab Sample ID: SLB0374-LCV3

Injection Time: 23:52

Sequence Name: ABN 0.2

| COMPOUND | TYPE | CONC. (ug/mL) | | RESPONSE FACTOR (RRF) | | | % DRIFT/DIFF | |
|----------------------------|------|---------------|-------|-----------------------|-----------|-----|--------------|---------|
| | | STD | CCV | ICAL | CCV | MIN | CCV | LIMIT |
| 3-Nitroaniline | A | 0.40000 | 0.3 | 0.3021810 | 0.2213090 | | -26.8 | +/-50 |
| 2,4-Dinitrophenol | A | 0.80000 | 0.0 | 0.1437811 | | | | +/-50 * |
| Dibenzofuran | A | 0.20000 | 0.2 | 1.8656210 | 1.8476550 | | -1.0 | +/-50 |
| 4-Nitrophenol | A | 0.40000 | 0.2 | 0.1323756 | 0.0774911 | | -48.1 | +/-50 |
| 2,4-Dinitrotoluene | A | 0.40000 | 0.3 | 0.4244424 | 0.2823173 | | -33.5 | +/-50 |
| Fluorene | A | 0.20000 | 0.2 | 1.5719010 | 1.6724540 | | 6.4 | +/-50 |
| 4-Chlorophenylphenyl ether | A | 0.20000 | 0.2 | 0.8363665 | 0.8224693 | | -1.7 | +/-50 |
| Diethyl phthalate | A | 0.20000 | 0.2 | 1.1765440 | 1.2482970 | | 6.1 | +/-50 |
| 4-Nitroaniline | A | 0.40000 | 0.3 | 0.2995450 | 0.2020571 | | -32.5 | +/-50 |
| 4,6-Dinitro-2-methylphenol | A | 0.80000 | 0.1 | 0.0975169 | 0.0231627 | | -82.6 | +/-50 * |
| N-Nitrosodiphenylamine | A | 0.20000 | 0.2 | 0.5026629 | 0.5295633 | | 5.4 | +/-50 |
| 4-Bromophenyl phenyl ether | A | 0.20000 | 0.2 | 0.2209900 | 0.2150976 | | -2.7 | +/-50 |
| Hexachlorobenzene | A | 0.20000 | 0.2 | 0.2429692 | 0.2588081 | | 6.5 | +/-50 |
| Pentachlorophenol | A | 0.40000 | 0.1 | 0.0938263 | 0.0320751 | | -71.9 | +/-50 * |
| Phenanthrene | A | 0.20000 | 0.2 | 1.0640870 | 1.0663240 | | 0.2 | +/-50 |
| Anthracene | A | 0.20000 | 0.2 | 1.0059580 | 1.0114340 | | 0.5 | +/-50 |
| Carbazole | A | 0.20000 | 0.2 | 0.8816605 | 0.8089071 | | -8.3 | +/-50 |
| Di-n-Butylphthalate | A | 0.20000 | 0.2 | 0.9469101 | 1.0421890 | | -8.5 | +/-50 |
| Fluoranthene | A | 0.20000 | 0.2 | 1.5175930 | 1.3936650 | | -8.2 | +/-50 |
| Pyrene | A | 0.20000 | 0.2 | 1.6000330 | 1.4677550 | | -8.3 | +/-50 |
| Butylbenzylphthalate | A | 0.20000 | 0.2 | 0.4562763 | 0.5618340 | | -0.8 | +/-50 |
| Benzo(a)anthracene | A | 0.20000 | 0.2 | 1.3399020 | 1.4824900 | | 10.6 | +/-50 |
| 3,3'-Dichlorobenzidine | A | 0.60000 | 0.7 | 0.3826468 | 0.4588018 | | 19.9 | +/-50 |
| Chrysene | A | 0.20000 | 0.2 | 1.2879040 | 1.3845660 | | 7.5 | +/-50 |
| bis(2-Ethylhexyl)phthalate | A | 0.20000 | 0.2 | 0.5161185 | 0.5403132 | | -11.5 | +/-50 |
| Di-n-Octylphthalate | A | 0.20000 | 0.2 | 1.0531830 | 1.0682160 | | 1.4 | +/-50 |
| Benzofluoranthenes, Total | A | 0.40000 | 0.5 | 1.2927770 | 1.5233870 | | 17.8 | +/-50 |
| Benzo(a)pyrene | A | 0.20000 | 0.2 | 1.1338150 | 1.2063920 | | 6.4 | +/-50 |
| Indeno(1,2,3-cd)pyrene | A | 0.20000 | 0.09 | 1.4272450 | 0.6439370 | | -54.9 | +/-50 * |
| Dibenzo(a,h)anthracene | A | 0.20000 | 0.1 | 1.2122070 | 0.5971766 | | -50.7 | +/-50 * |
| Benzo(g,h,i)perylene | A | 0.20000 | 0.07 | 1.2448130 | 0.4444135 | | -64.3 | +/-50 * |
| 1-Methylnaphthalene | A | 0.20000 | 0.2 | 0.7274101 | 0.7078636 | | -2.7 | +/-50 |
| 2-Fluorophenol | A | 0.30000 | 0.307 | 1.0846110 | 1.1114320 | | 2.5 | +/-50 |
| Phenol-d5 | A | 0.30000 | 0.283 | 1.5399100 | 1.4533120 | | -5.6 | +/-50 |

* Values outside of QC limits



**LOW-CONCENTRATION
CONTINUING CALIBRATION CHECK
EPA 8270E**

| | | | |
|----------------|----------------------------------|-------------------|------------------------|
| Laboratory: | <u>Analytical Resources, LLC</u> | SDG: | <u>23A0180</u> |
| Client: | <u>Anchor QEA, LLC</u> | Project: | <u>AOC5 MR Phase 1</u> |
| Instrument ID: | <u>NT14</u> | Calibration: | <u>GC00033</u> |
| Lab File ID: | <u>NT1423022838.D</u> | Calibration Date: | <u>02/28/2023</u> |
| Sequence: | <u>SLB0374</u> | Injection Date: | <u>03/01/23</u> |
| Lab Sample ID: | <u>SLB0374-LCV3</u> | Injection Time: | <u>23:52</u> |
| Sequence Name: | <u>ABN 0.2</u> | | |

| COMPOUND | TYPE | CONC. (ug/mL) | | RESPONSE FACTOR (RRF) | | | % DRIFT/DIFF | |
|------------------------|------|---------------|-------|-----------------------|-----------|-----|--------------|-------|
| | | STD | CCV | ICAL | CCV | MIN | CCV | LIMIT |
| 2-Chlorophenol-d4 | A | 0.30000 | 0.279 | 1.3093910 | 1.2159890 | | -7.1 | +/-50 |
| 1,2-Dichlorobenzene-d4 | A | 0.20000 | 0.192 | 0.9857584 | 0.9455620 | | -4.1 | +/-50 |
| Nitrobenzene-d5 | A | 0.20000 | 0.195 | 0.3912861 | 0.3807243 | | -2.7 | +/-50 |
| 2-Fluorobiphenyl | A | 0.20000 | 0.207 | 1.5568580 | 1.6133800 | | 3.6 | +/-50 |
| 2,4,6-Tribromophenol | A | 0.30000 | 0.203 | 0.1850894 | 0.1455760 | | -32.2 | +/-50 |
| p-Terphenyl-d14 | A | 0.20000 | 0.181 | 1.2319340 | 1.1139230 | | -9.6 | +/-50 |

* Values outside of QC limits

* Values outside of QC limits

Data File: \\target\share\chem3\nt14,1\20230228,16\NT1423022838.D

Date : 01-MAR-2023 23:52

Client ID:

Sample Info: SLB0374-LCV3

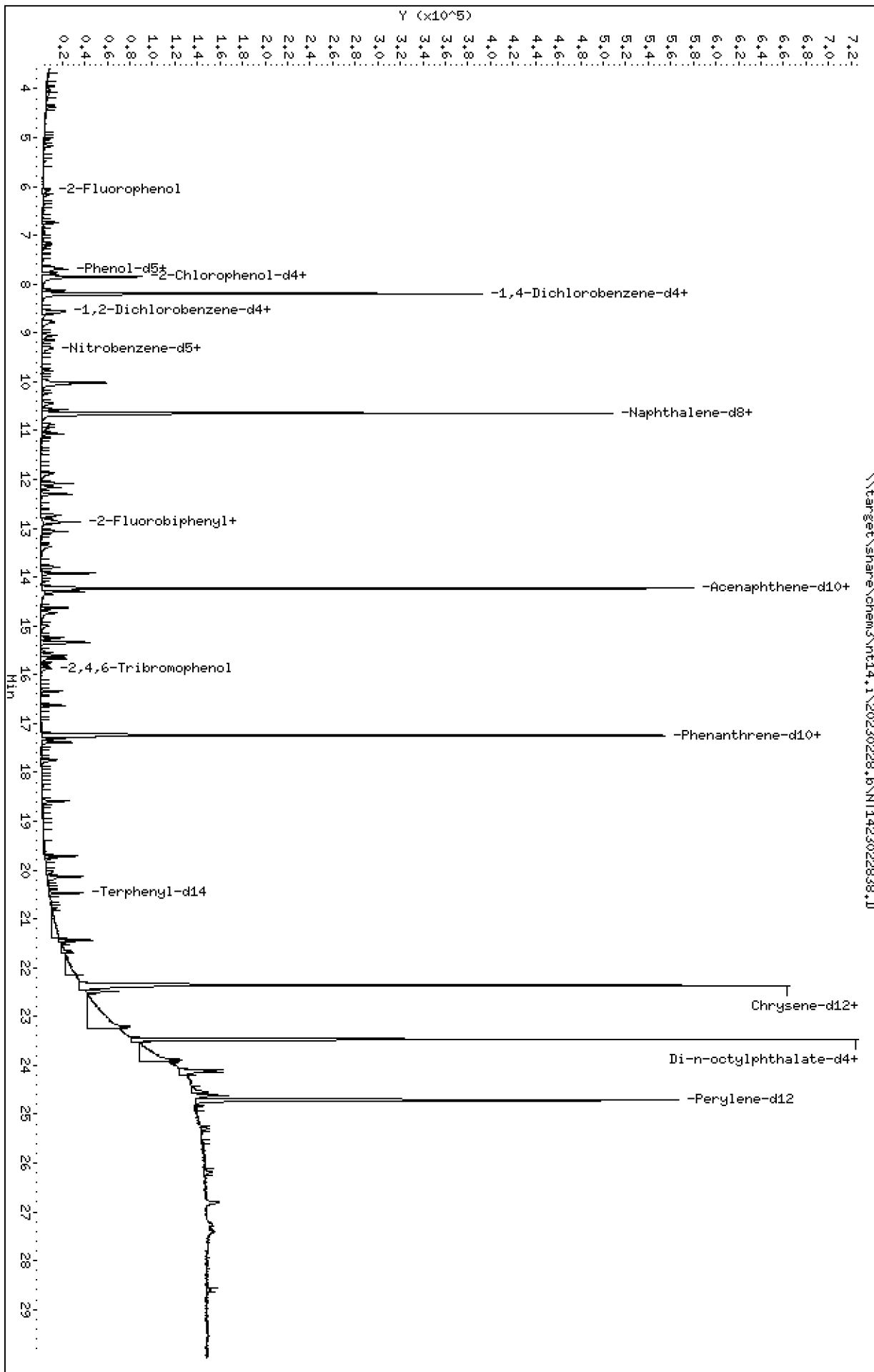
Column phase: ZB-5msi

Instrument: nt14,1

Operator: JGR

Column diameter: 0.25

\\target\share\chem3\nt14,1\20230228,16\NT1423022838.D



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

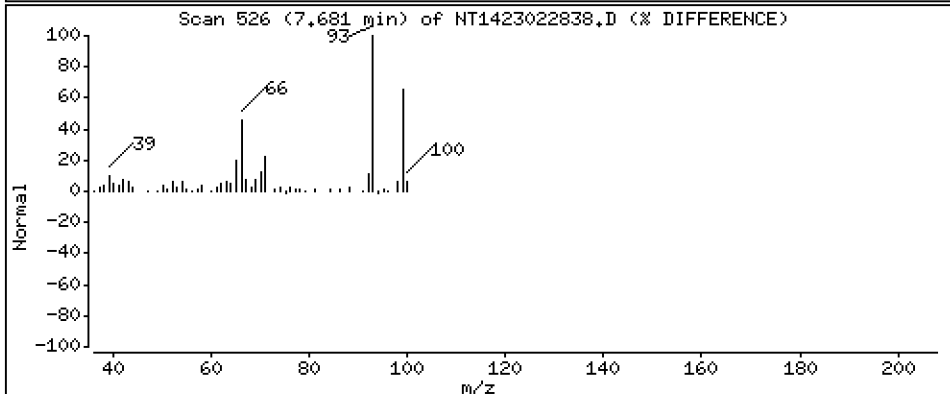
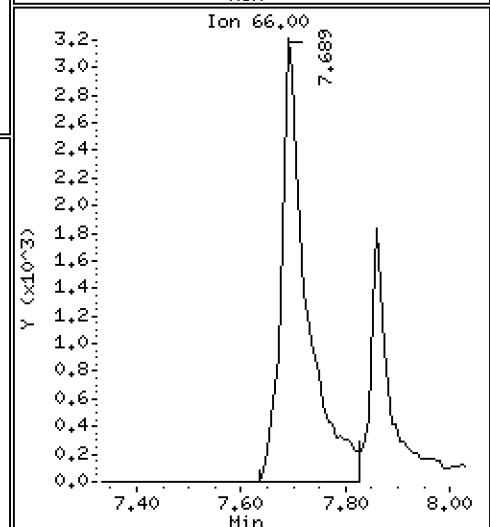
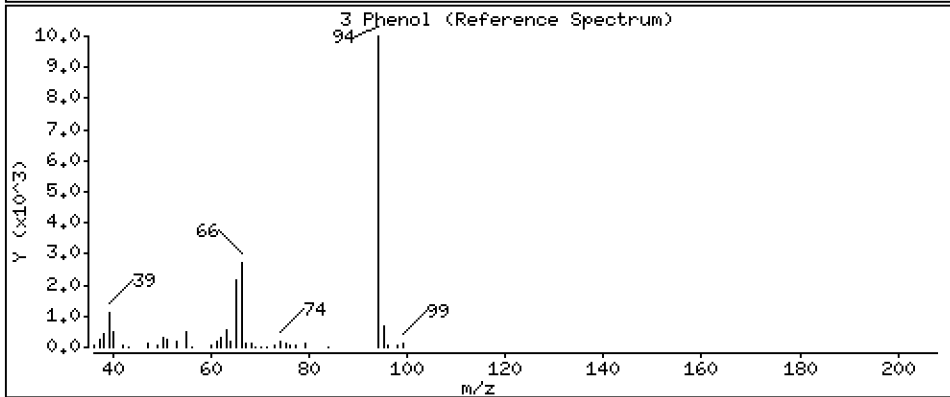
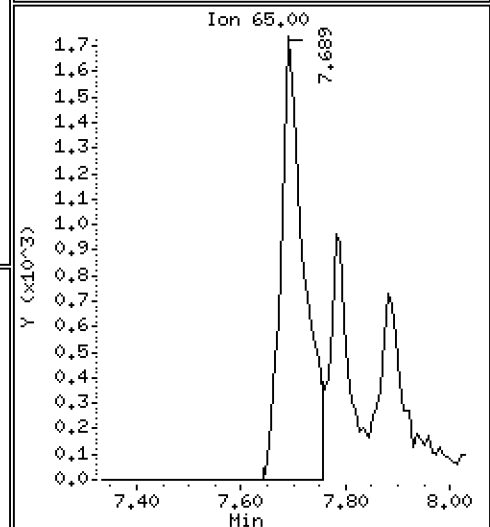
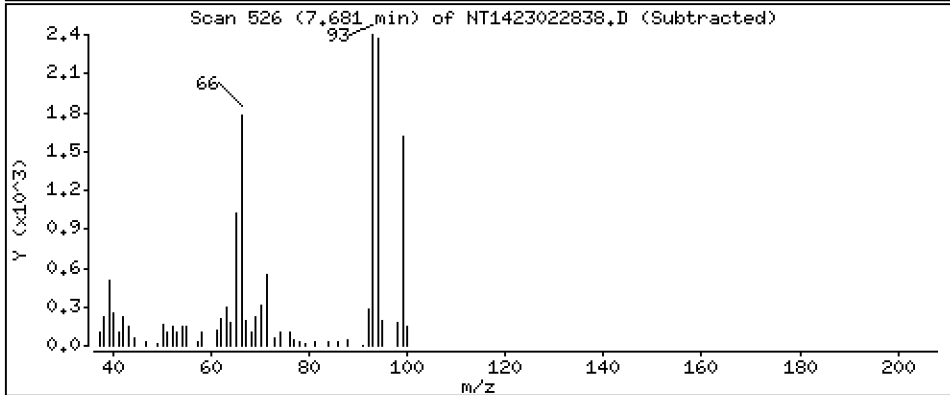
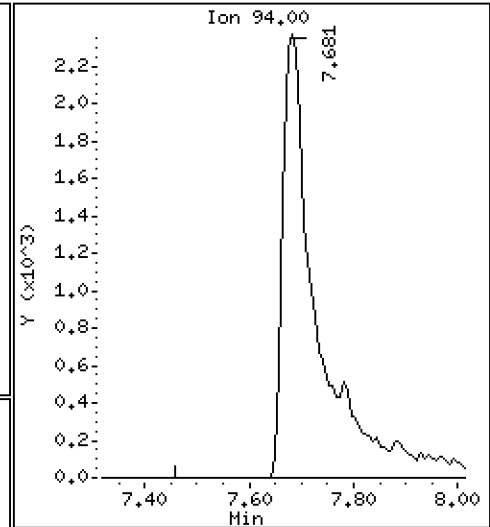
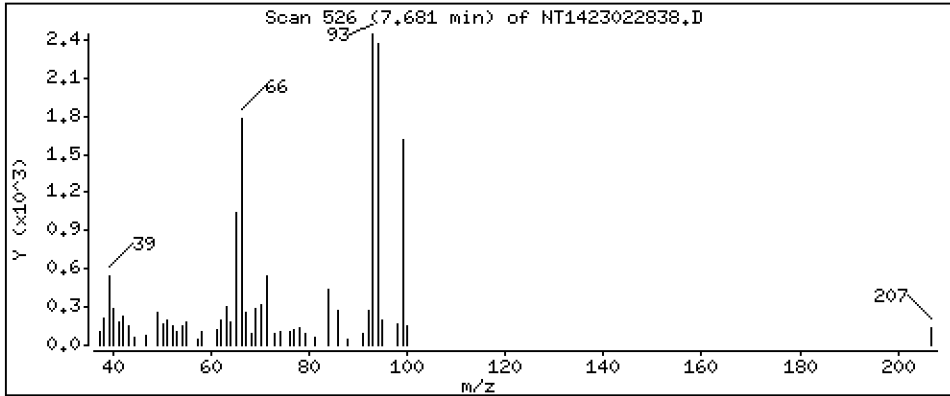
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 0,2329 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

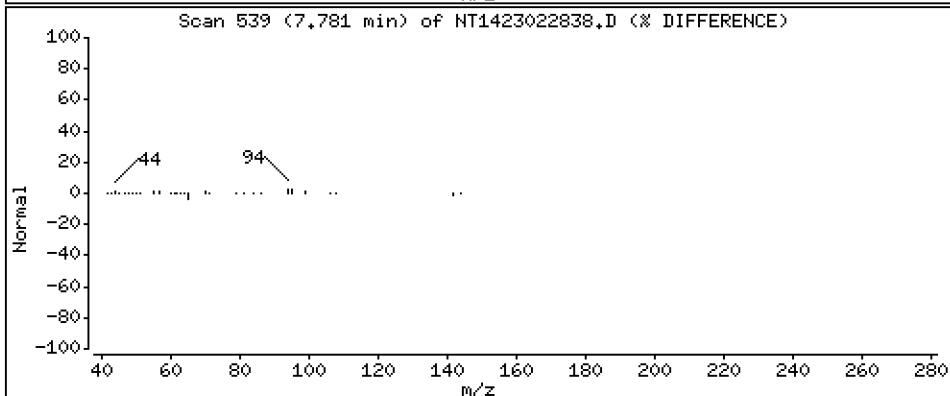
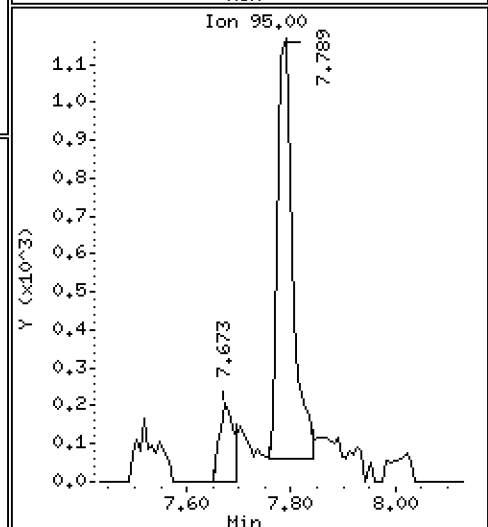
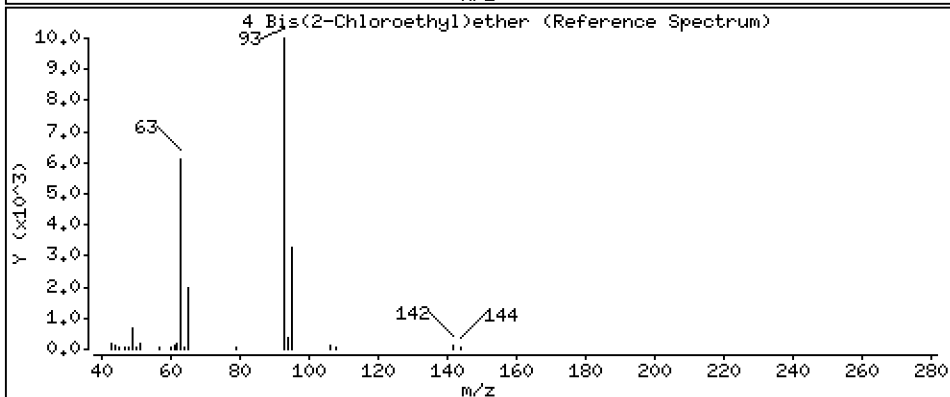
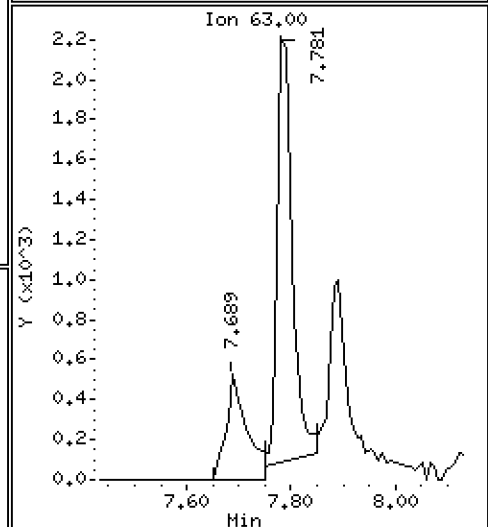
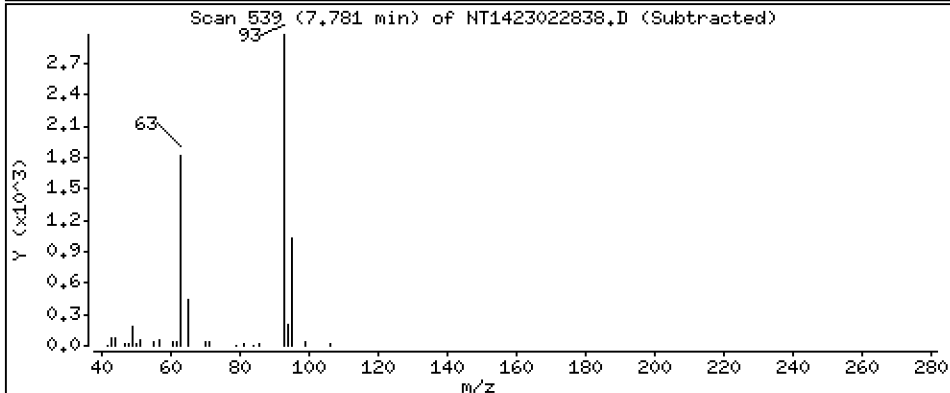
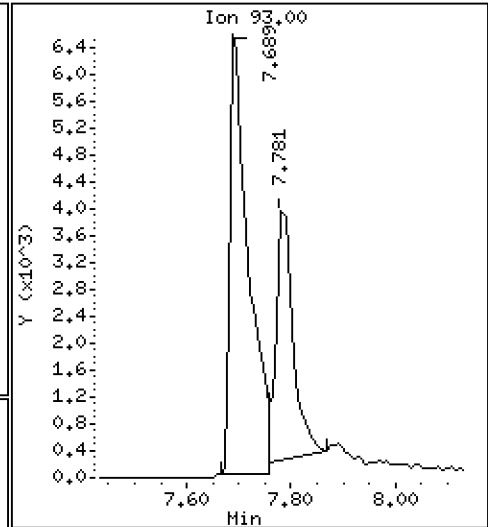
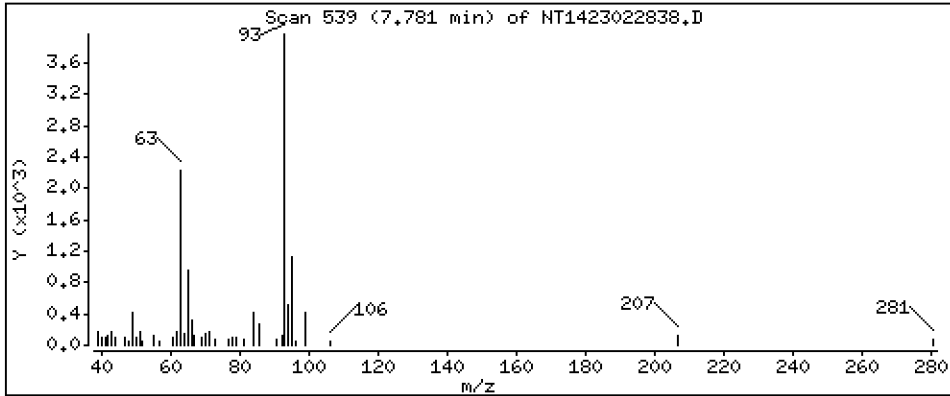
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

4 Bis(2-Chloroethyl)ether

Concentration: 0,2229 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

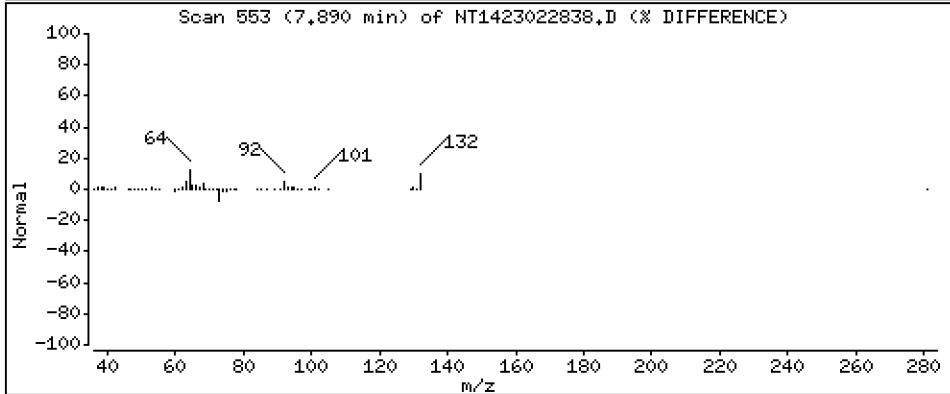
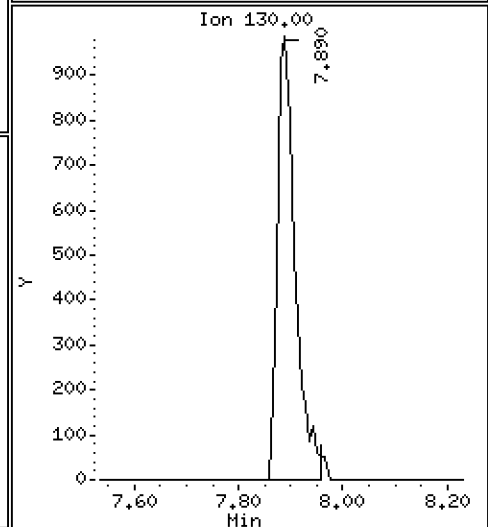
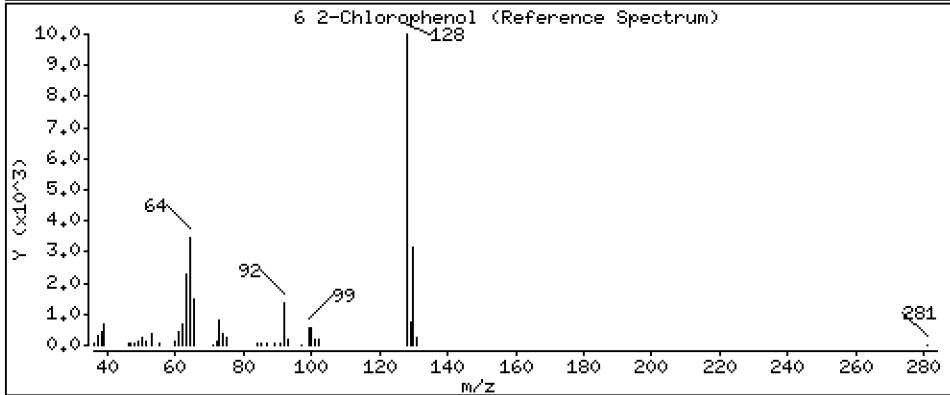
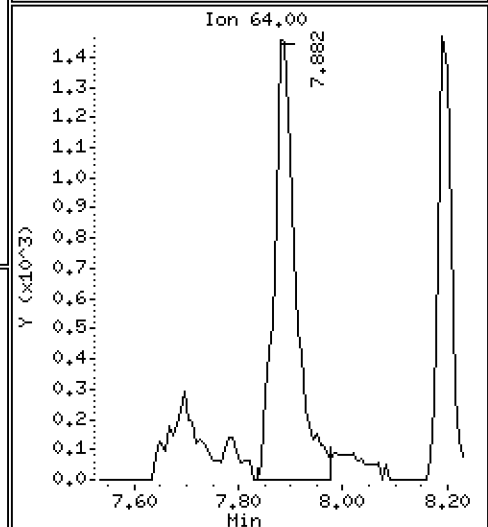
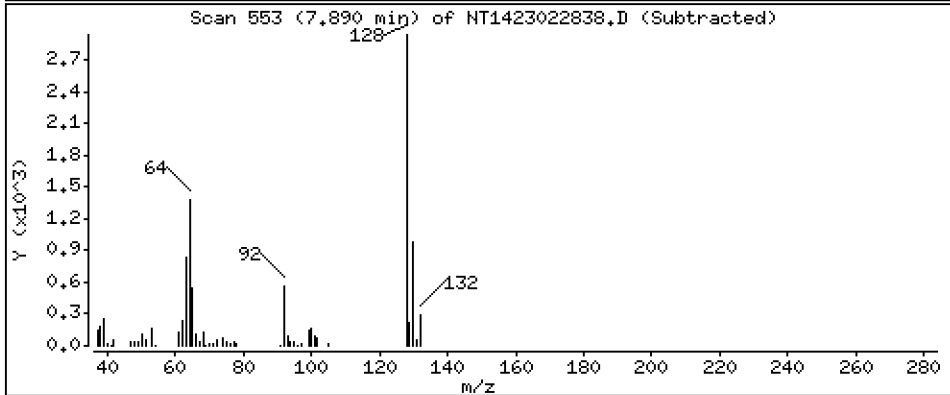
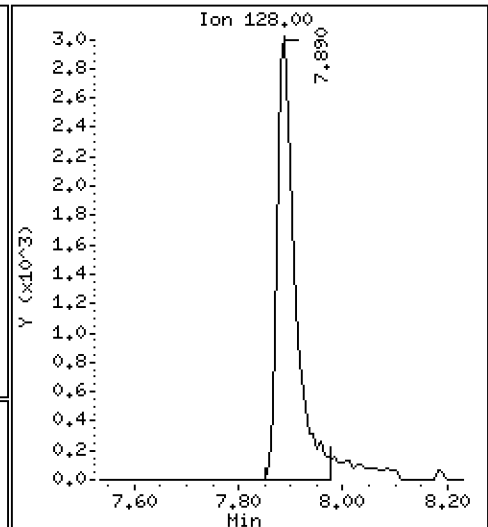
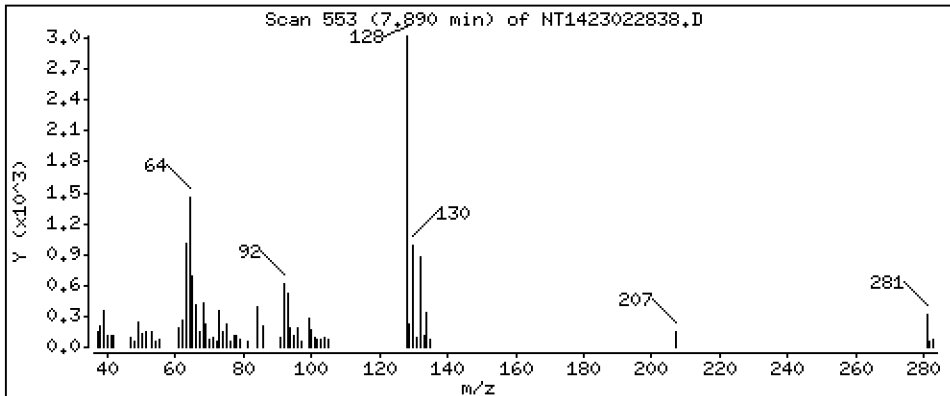
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 0,1812 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

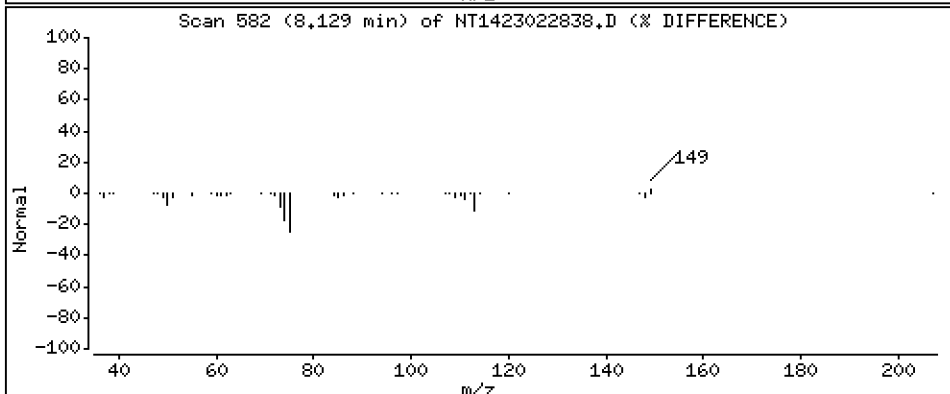
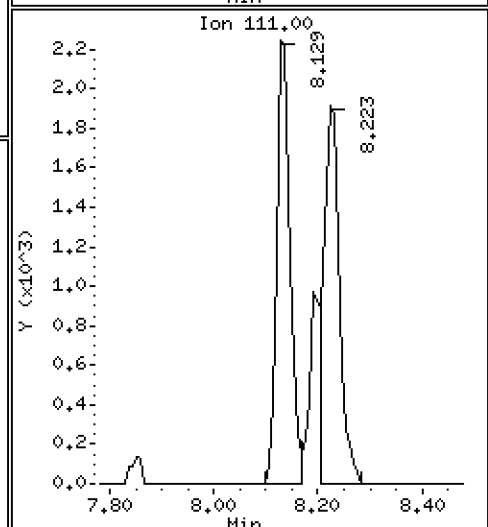
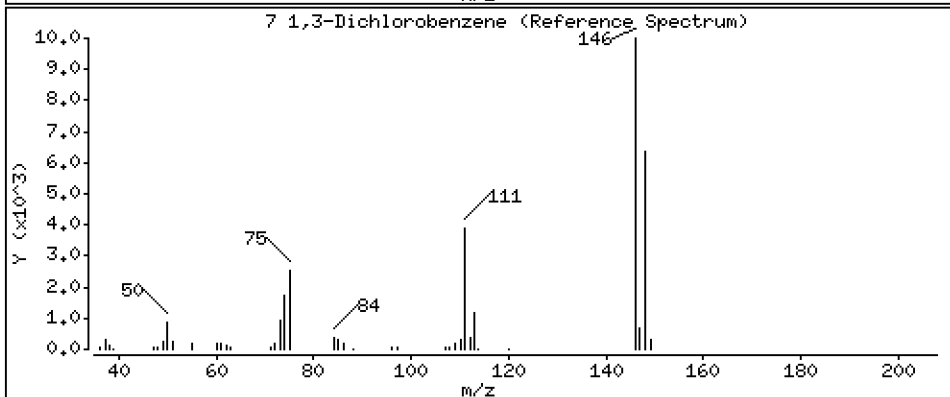
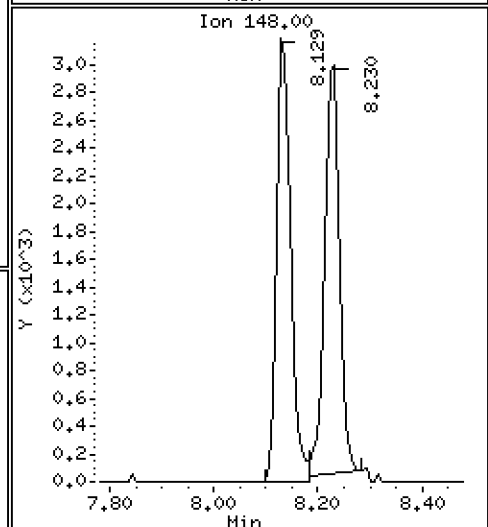
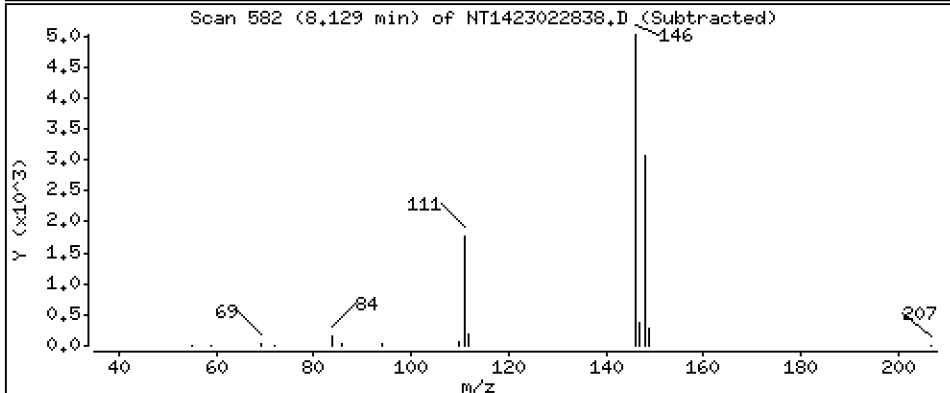
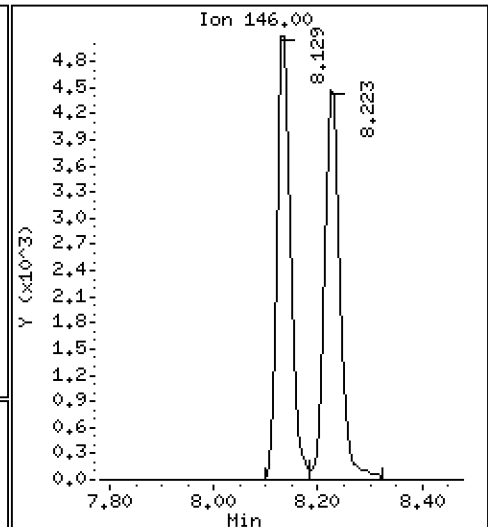
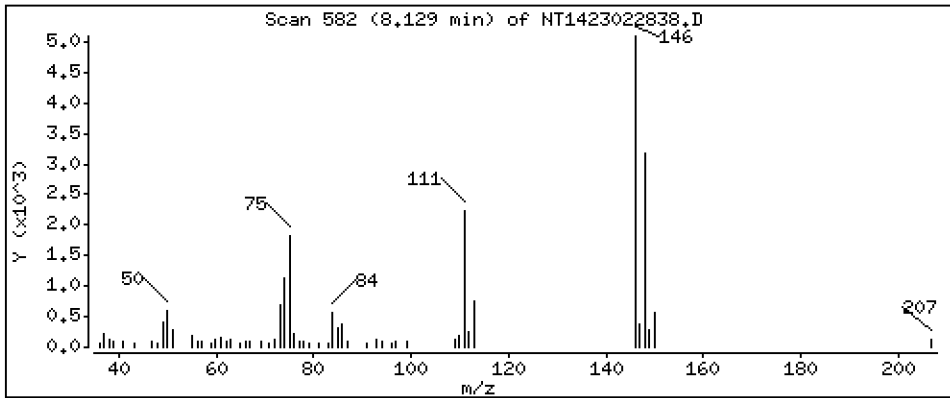
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

7 1,3-Dichlorobenzene

Concentration: 0,2093 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

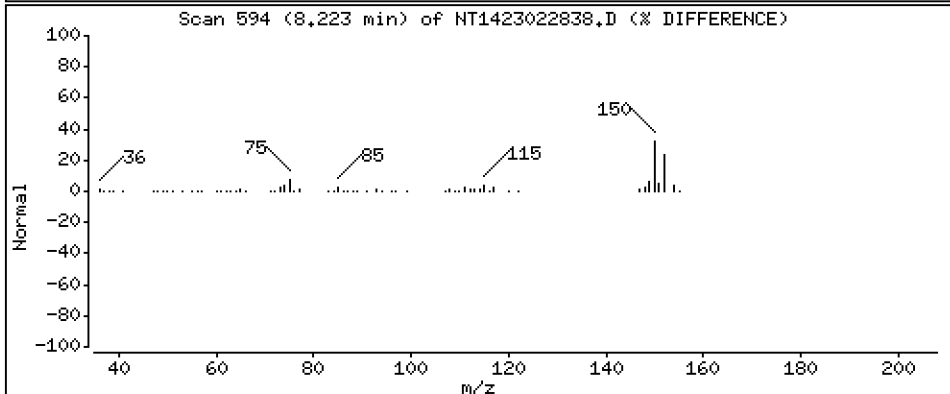
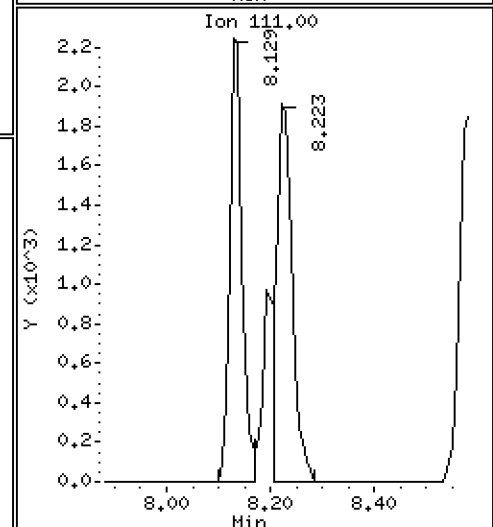
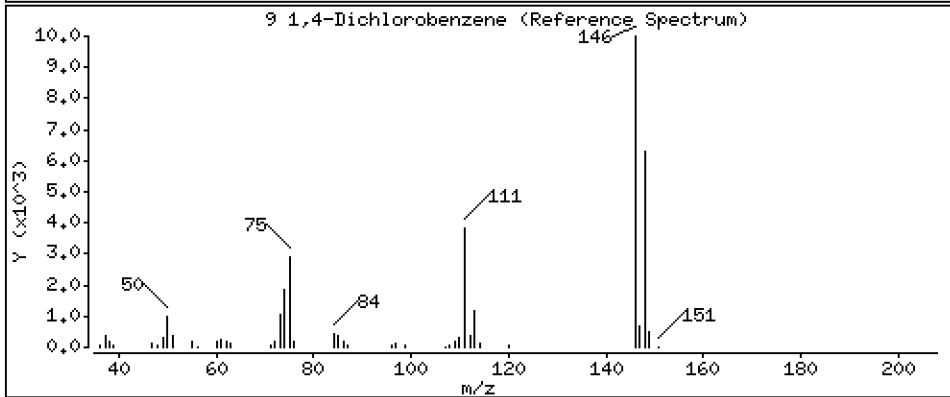
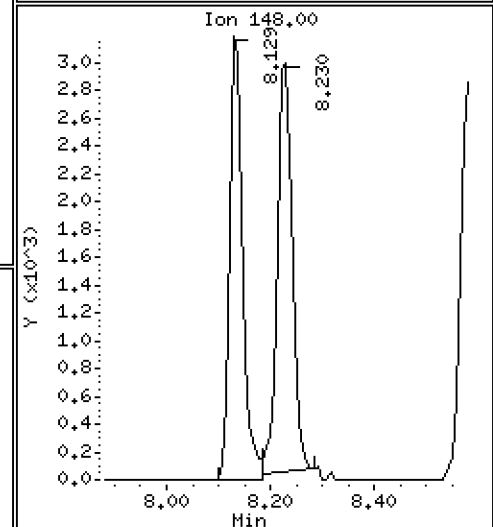
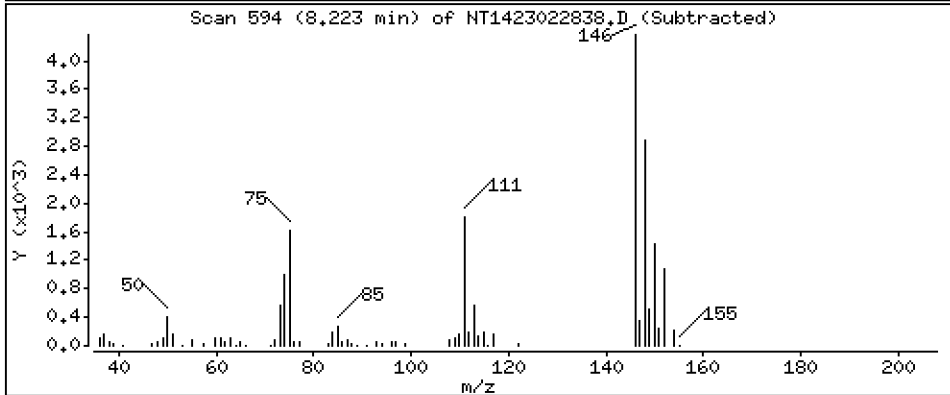
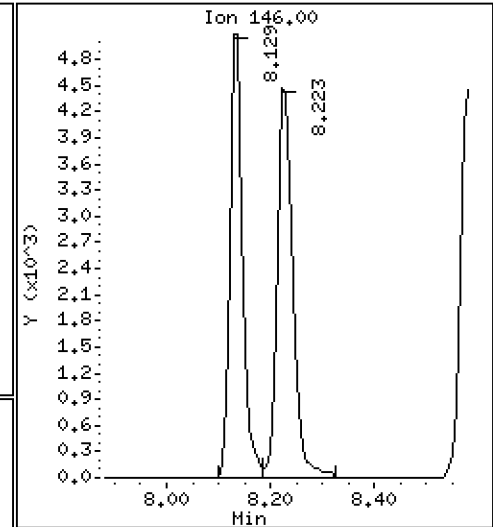
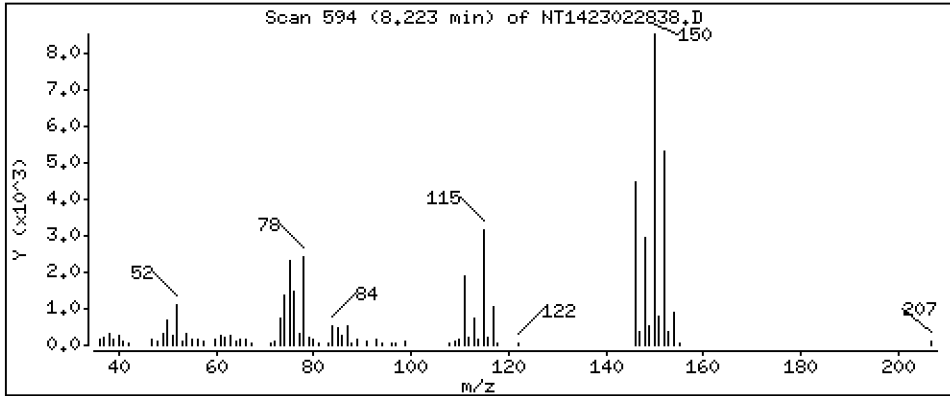
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 0,2139 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

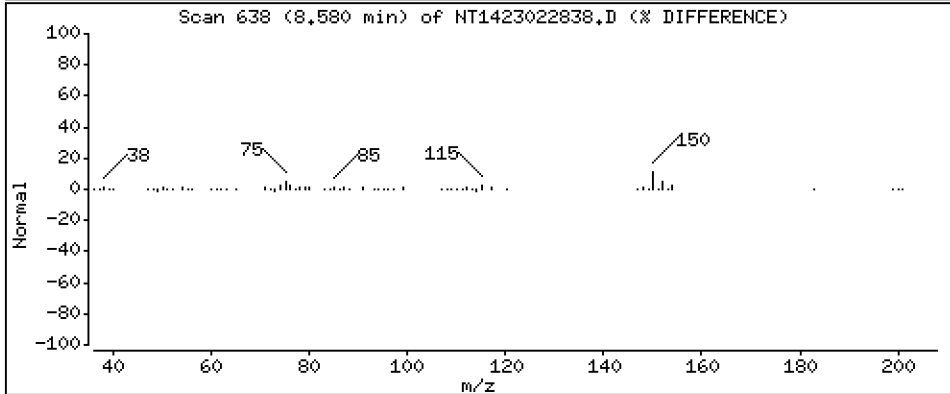
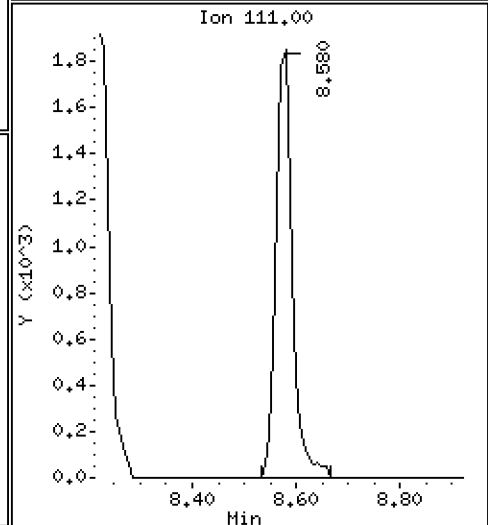
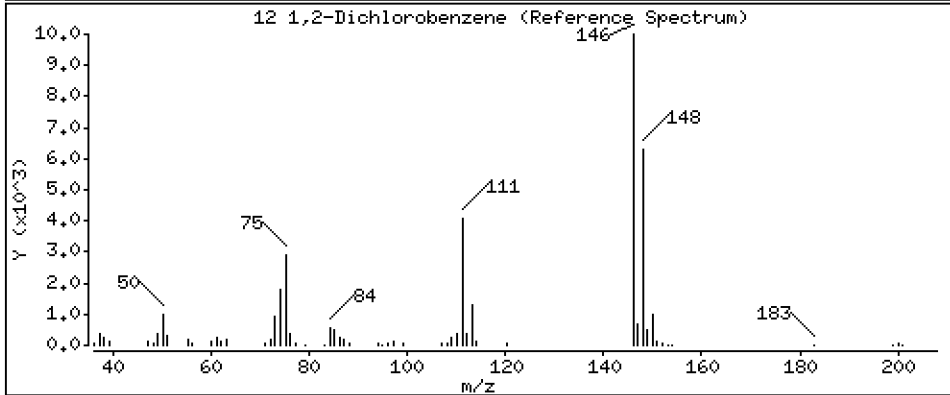
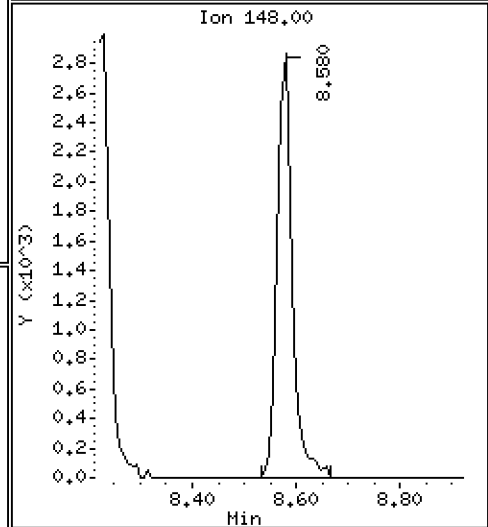
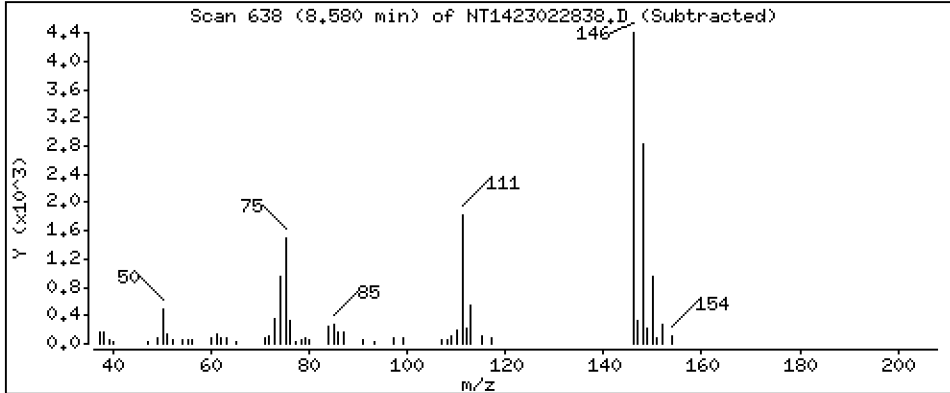
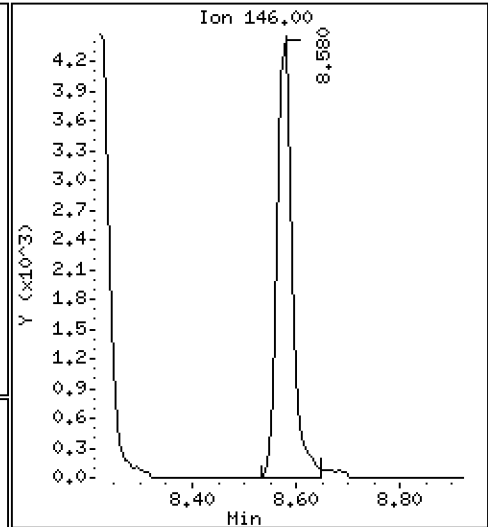
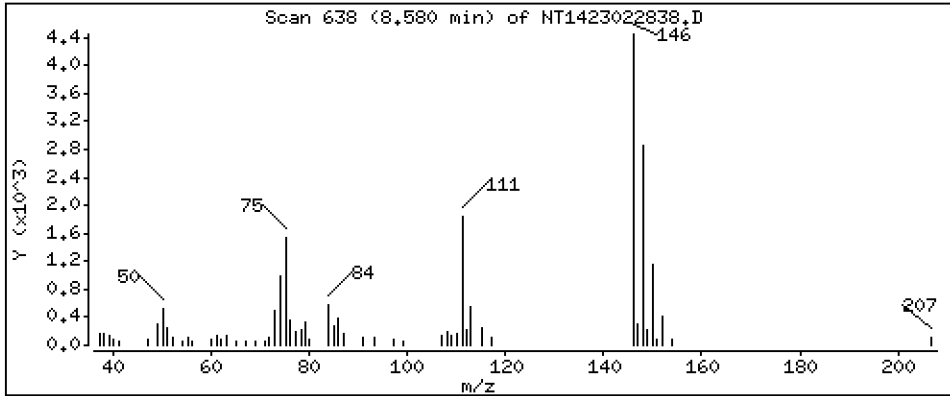
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

12 1,2-Dichlorobenzene

Concentration: 0,2130 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

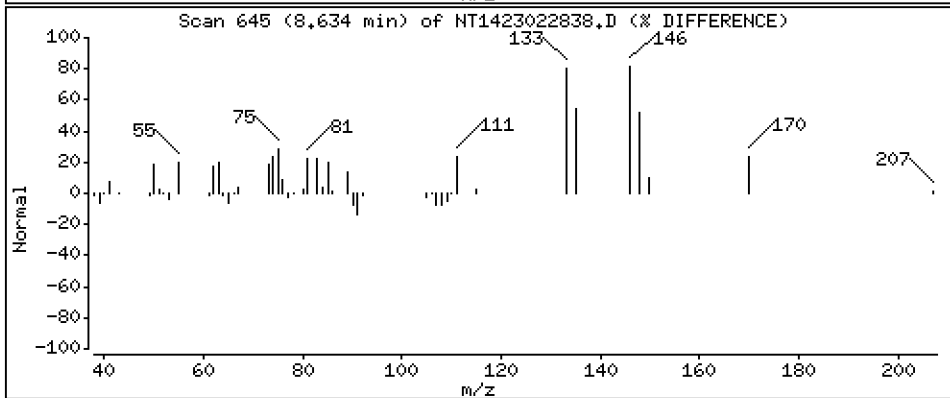
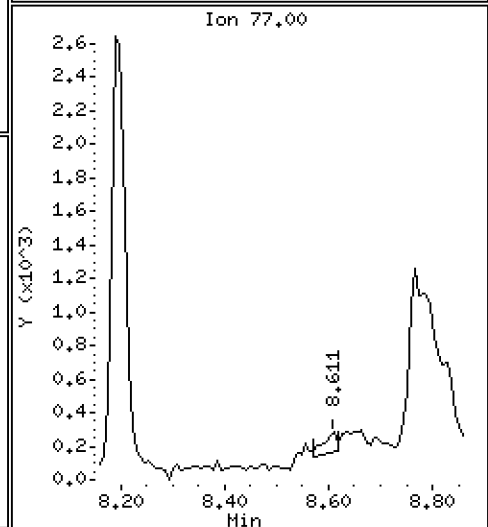
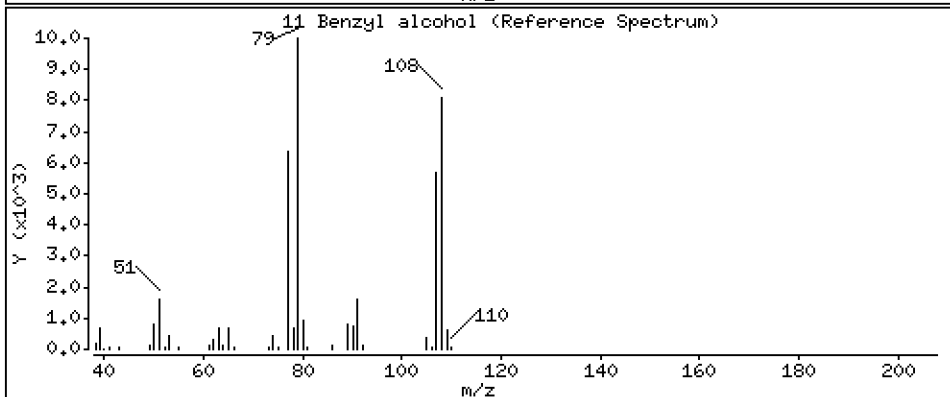
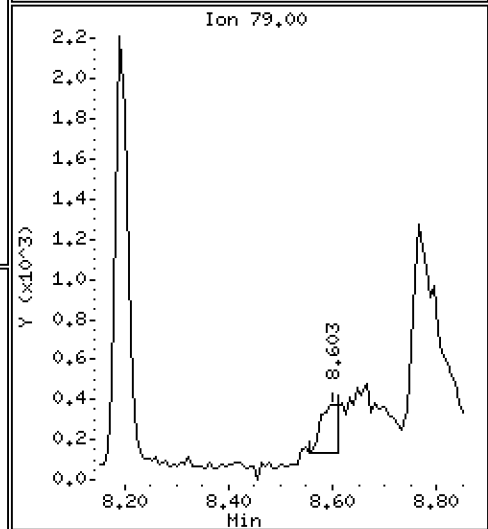
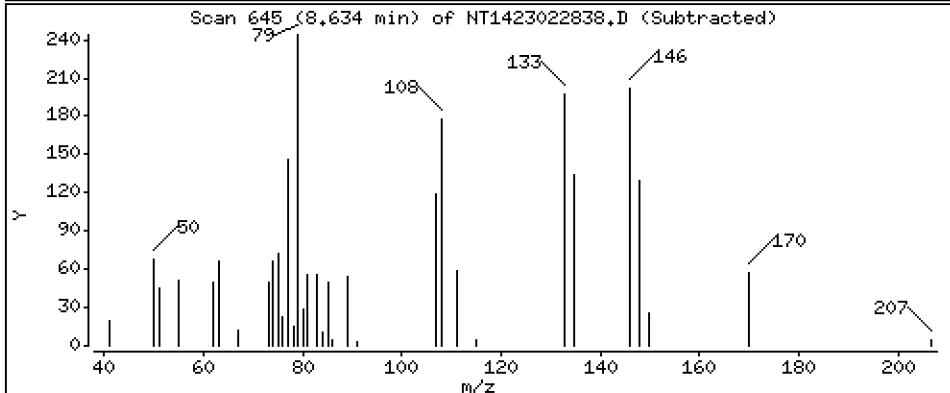
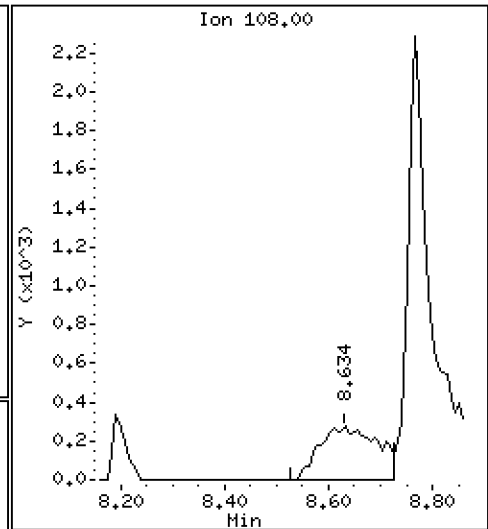
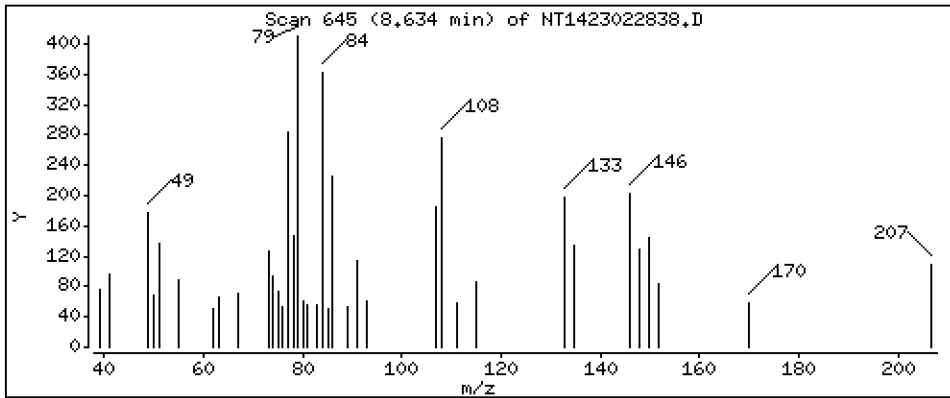
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 0.09424 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

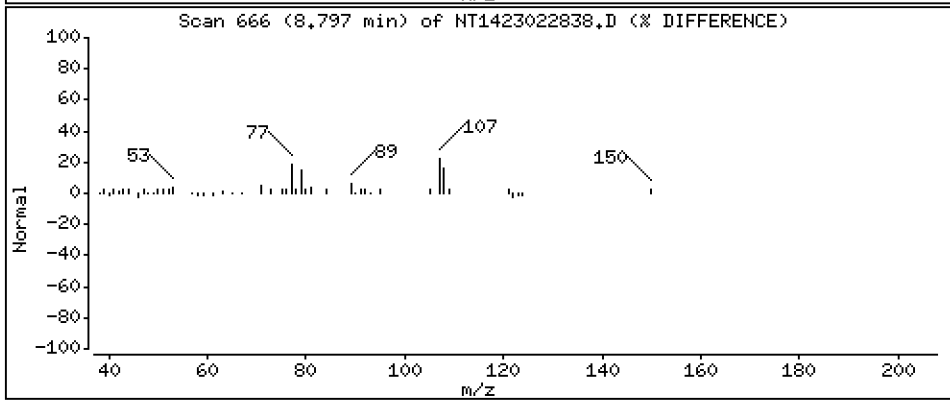
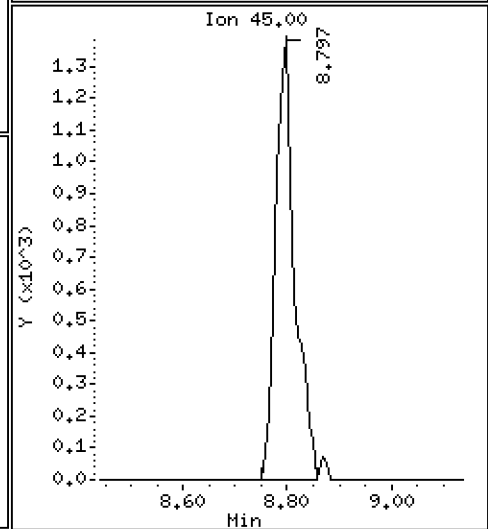
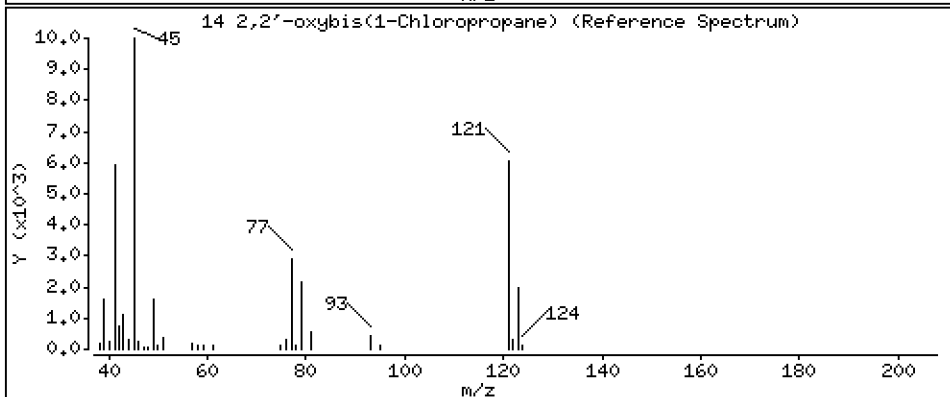
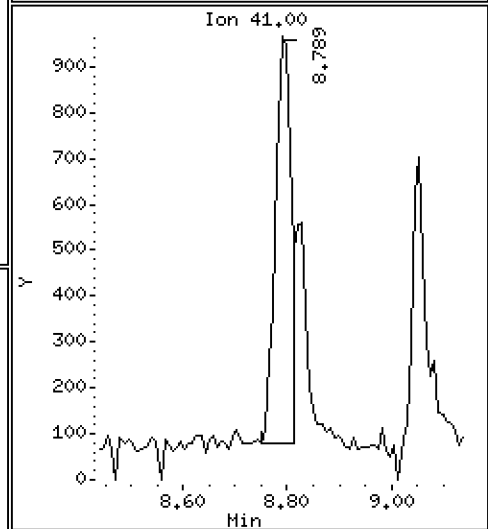
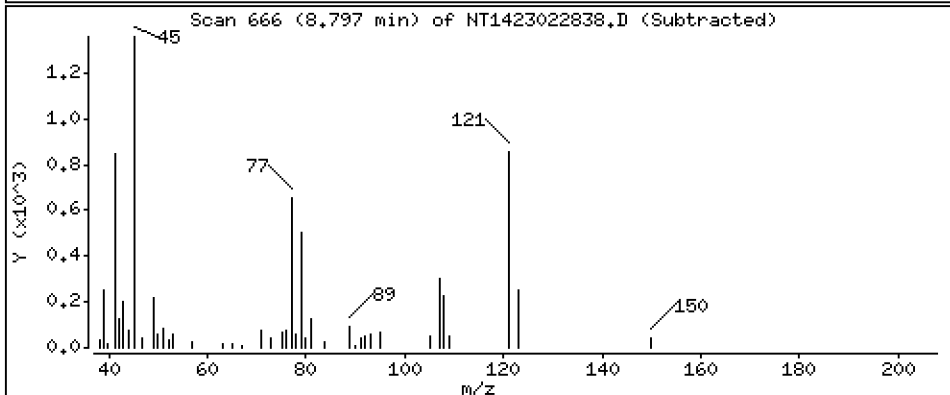
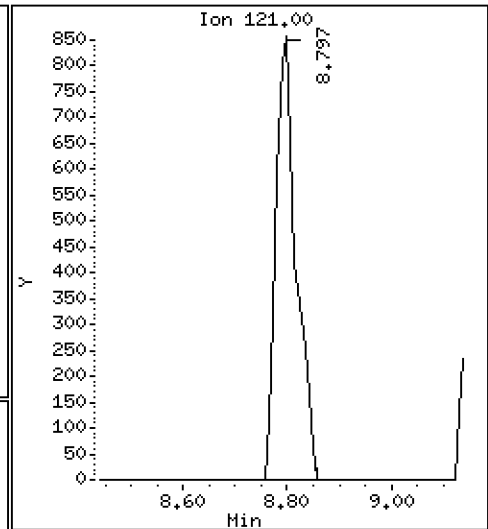
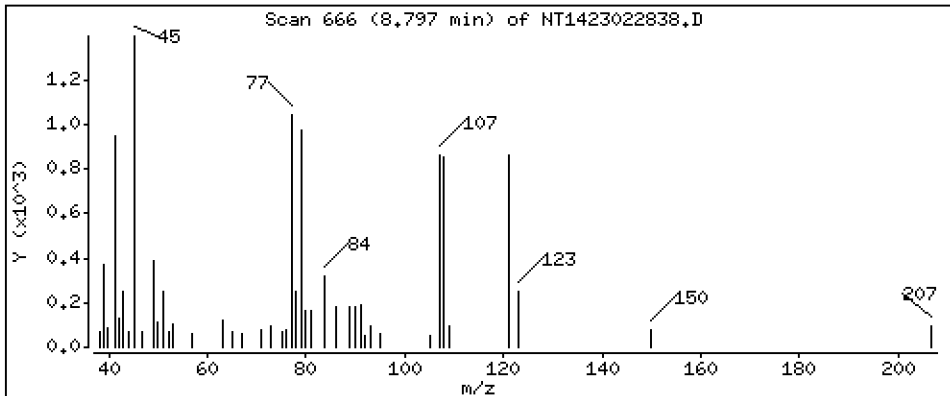
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 0,2101 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

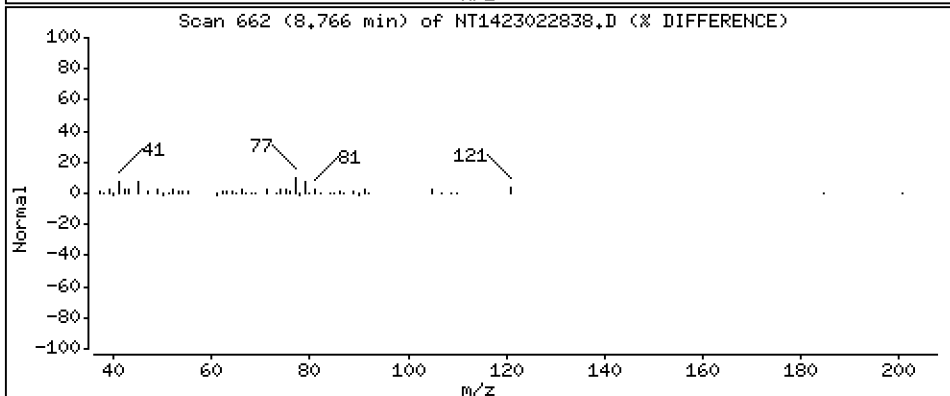
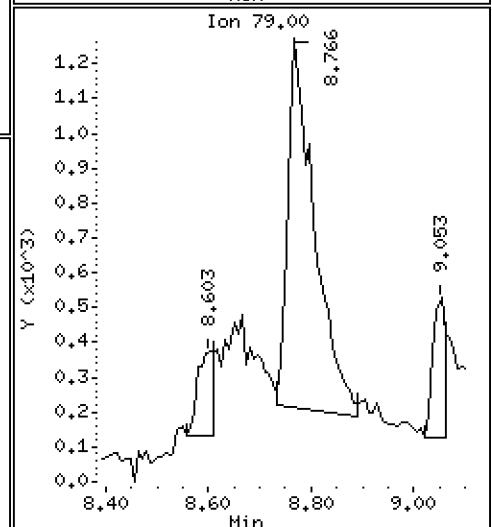
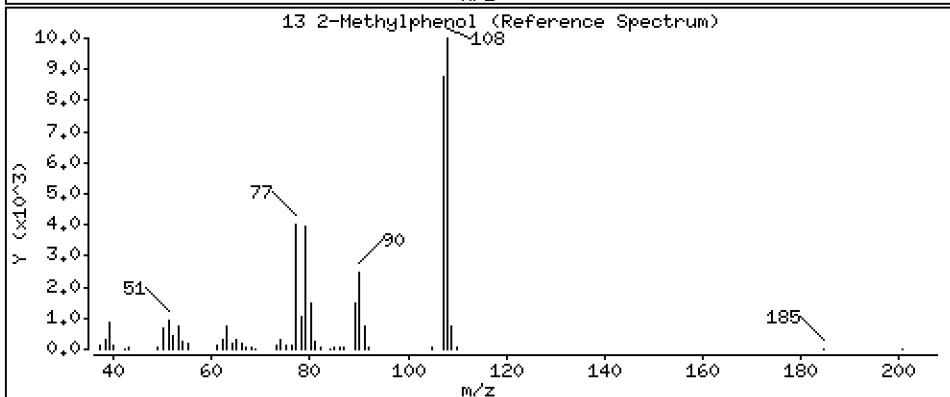
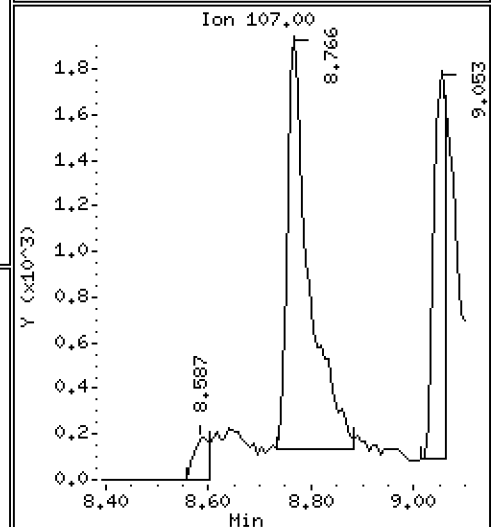
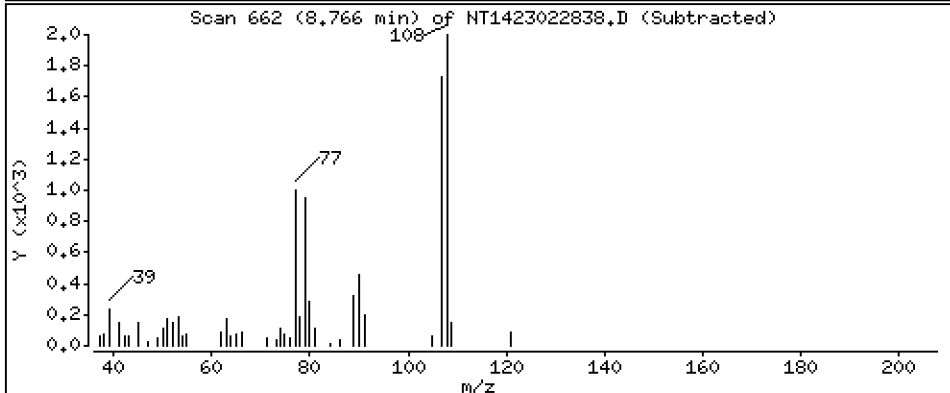
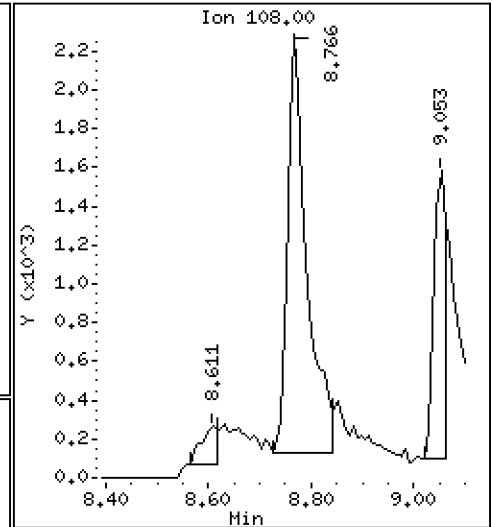
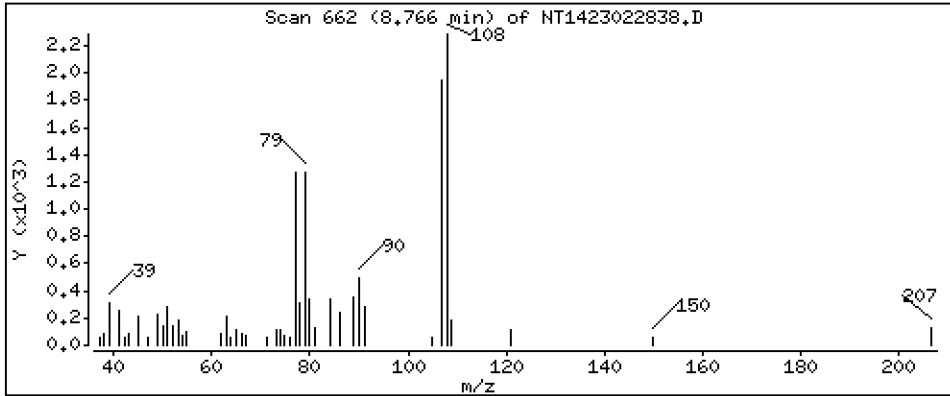
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

13 2-Methylphenol

Concentration: 0.1718 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

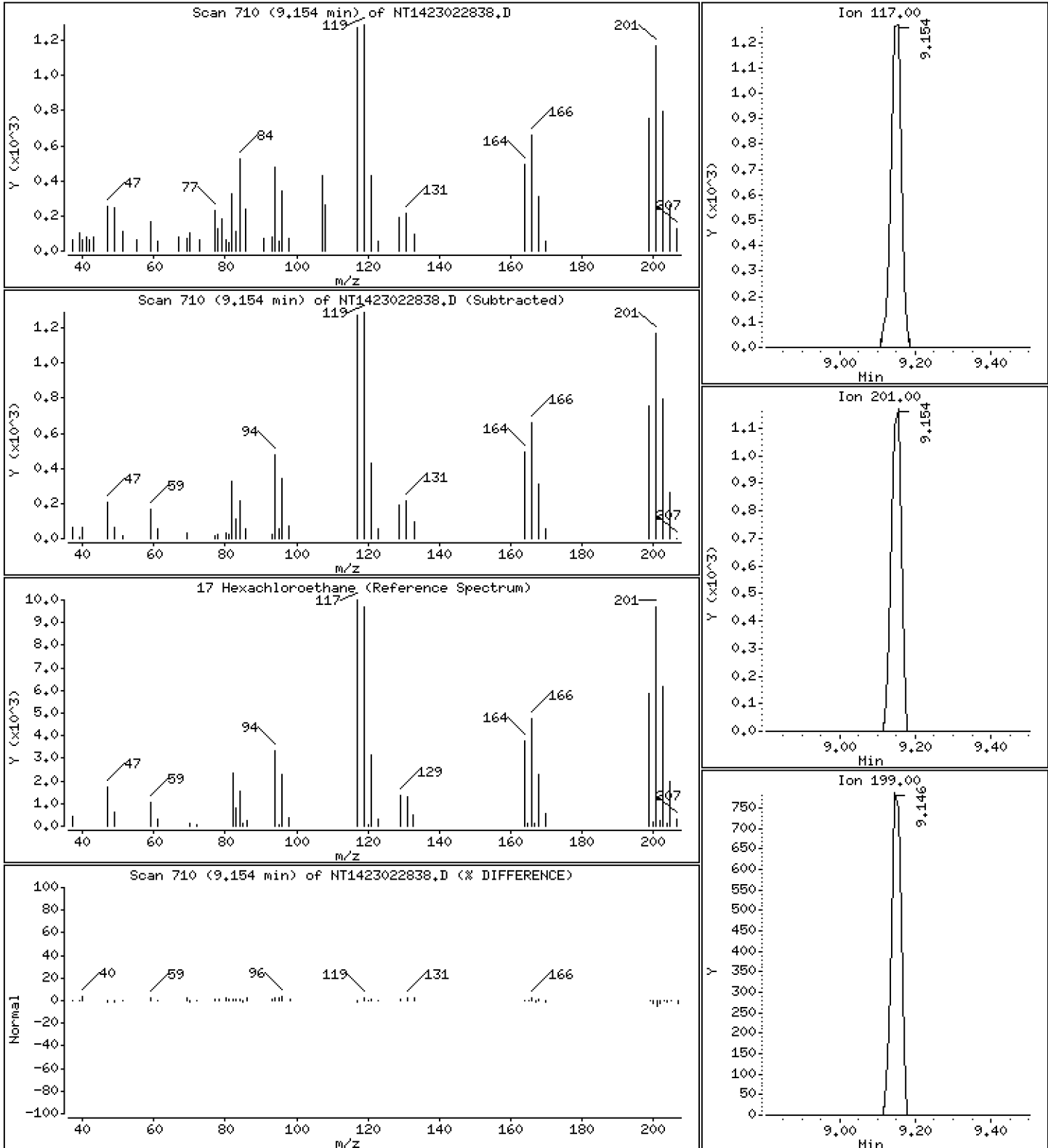
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

17 Hexachloroethane

Concentration: 0.1471 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

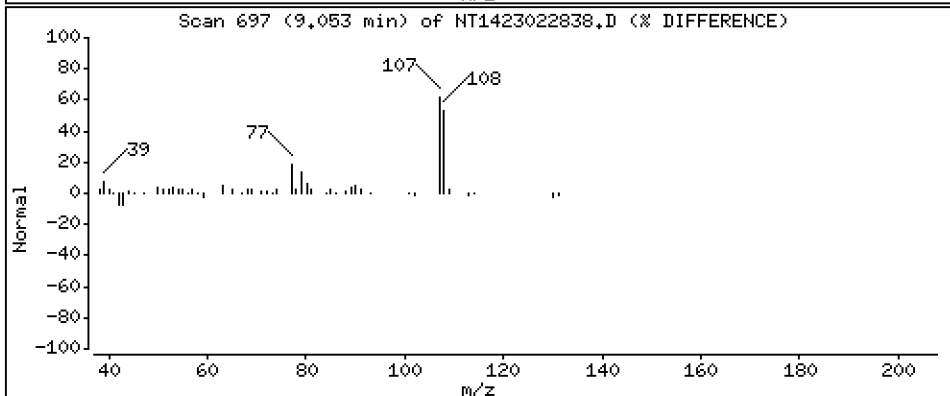
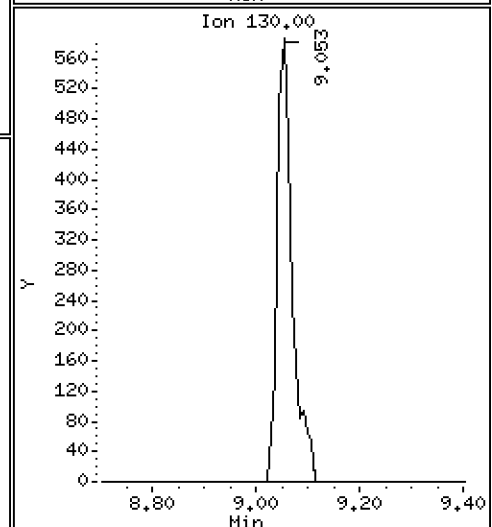
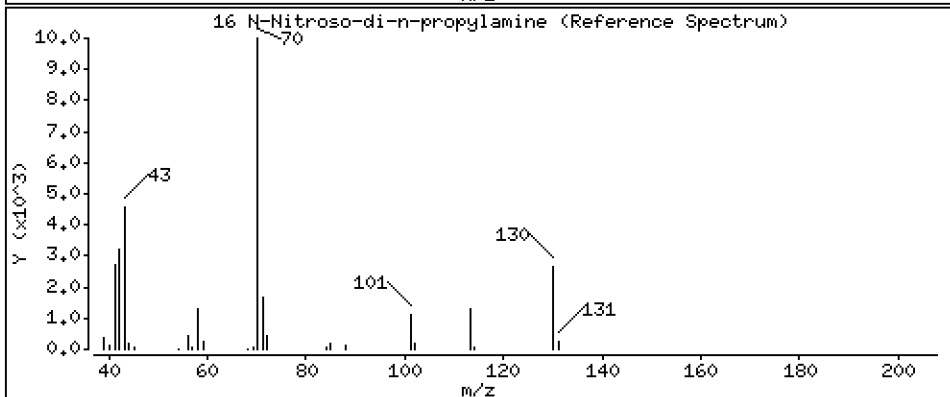
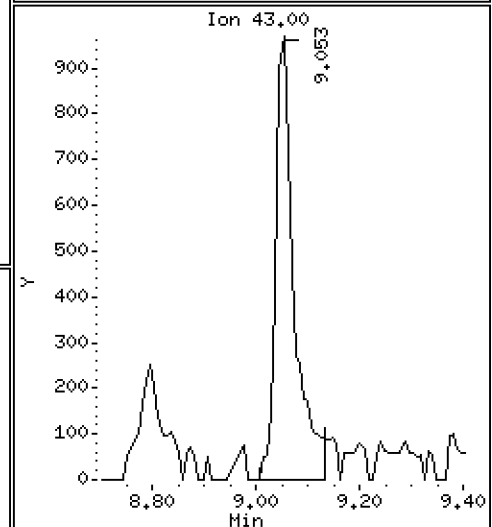
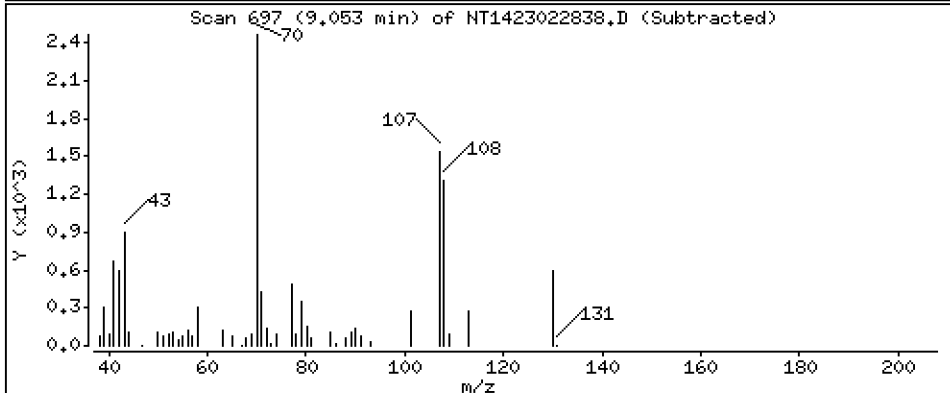
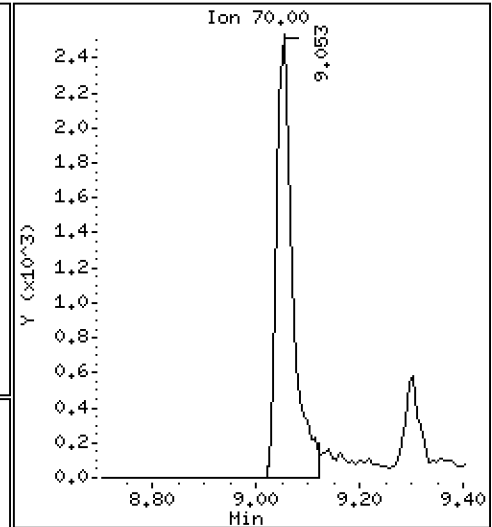
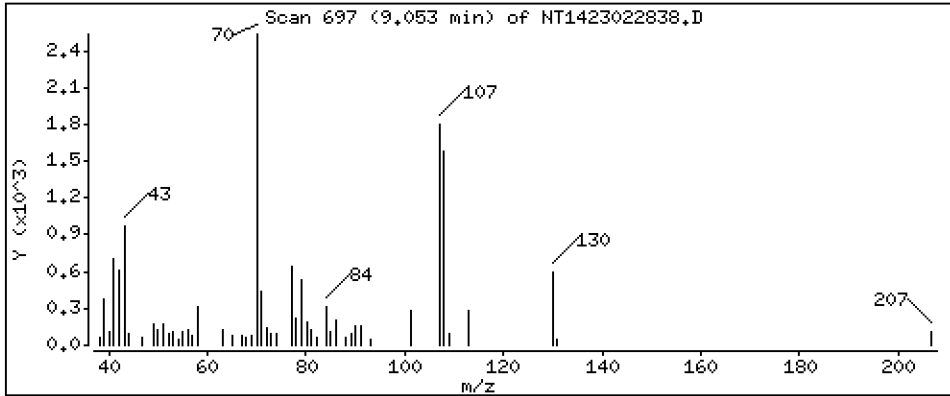
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

16 N-Nitroso-di-n-propylamine

Concentration: 0,2084 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

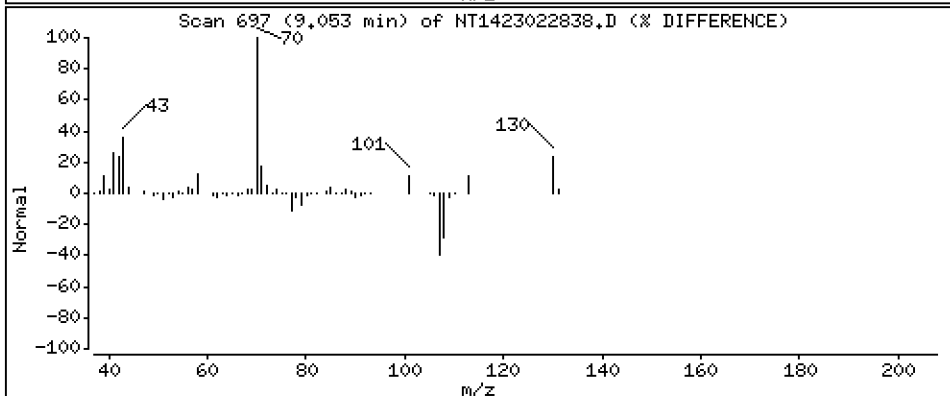
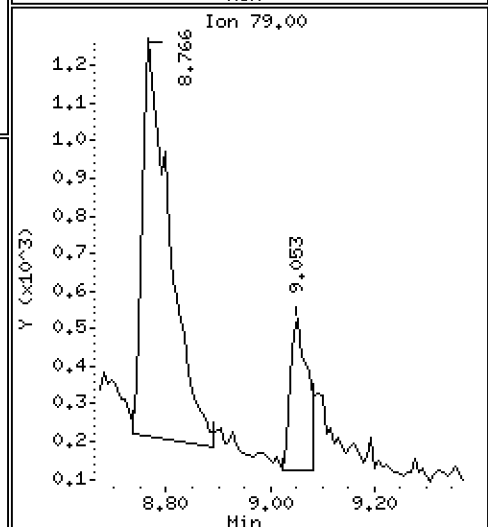
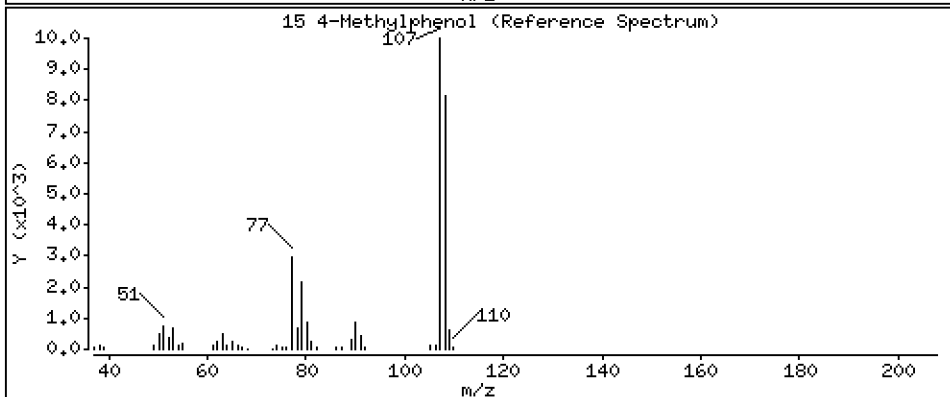
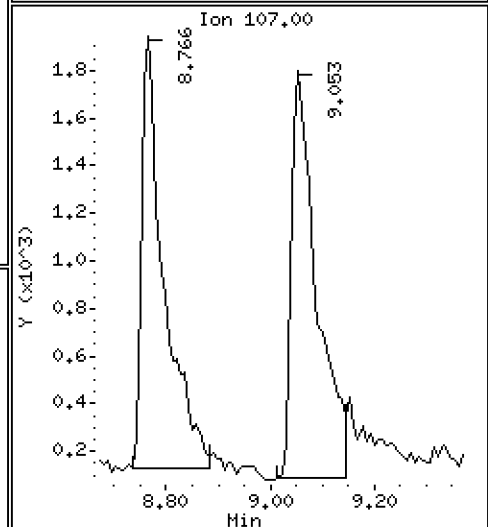
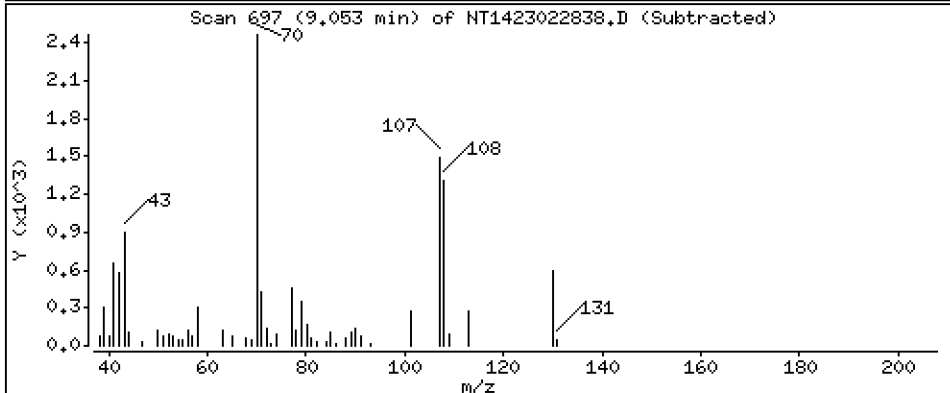
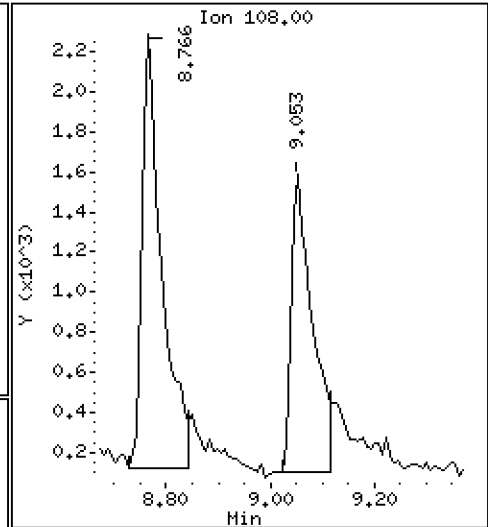
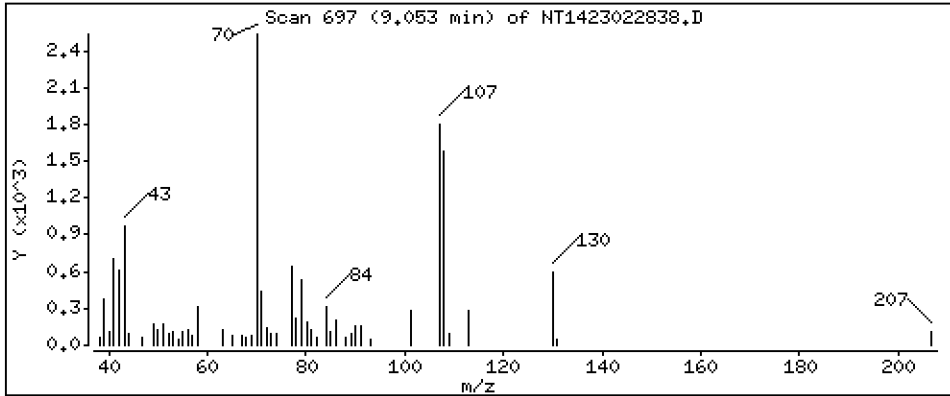
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

15 4-Methylphenol

Concentration: 0,1119 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

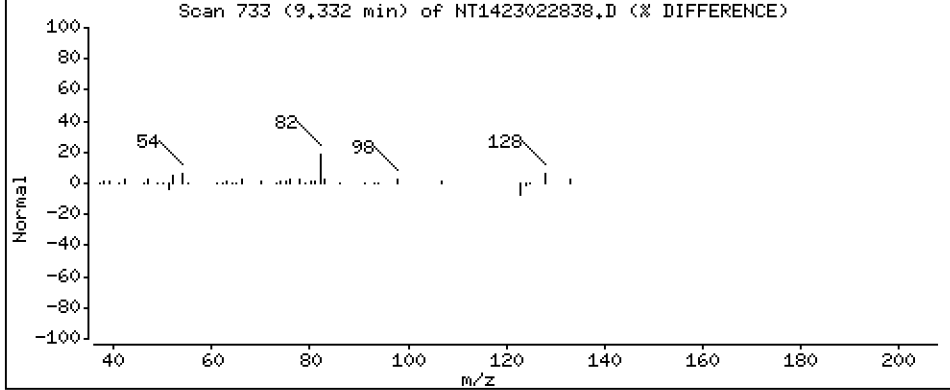
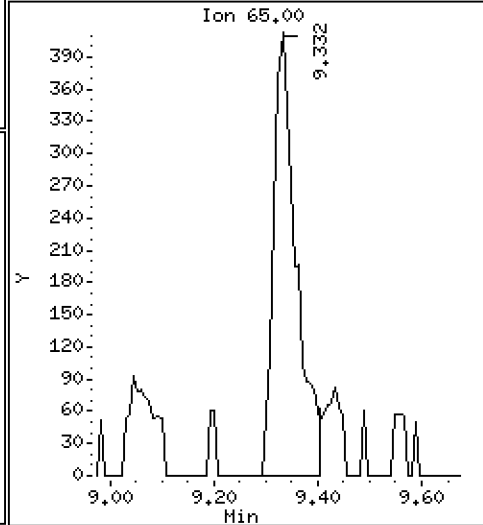
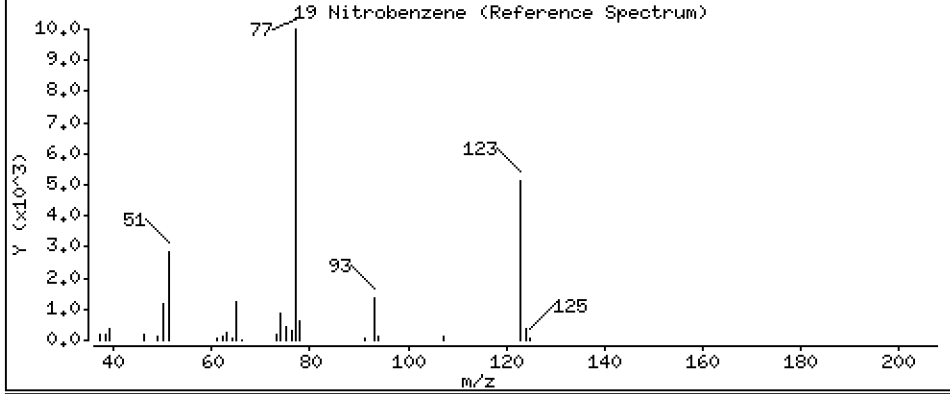
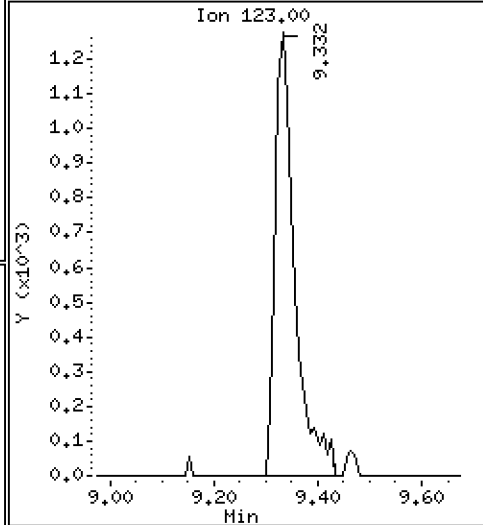
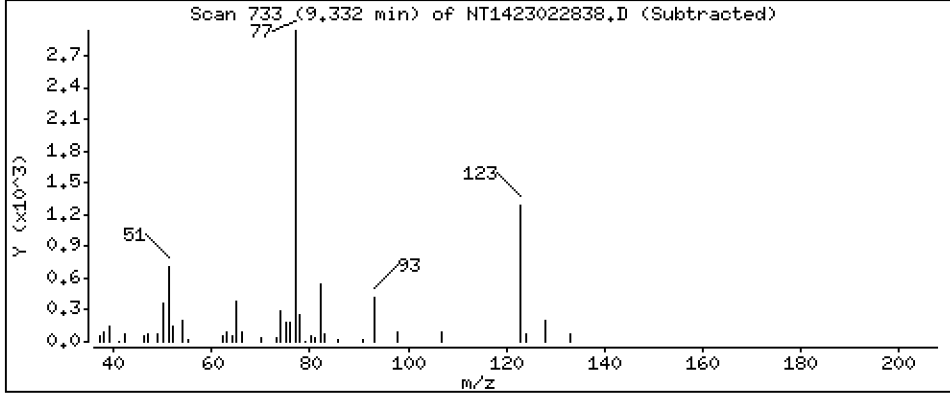
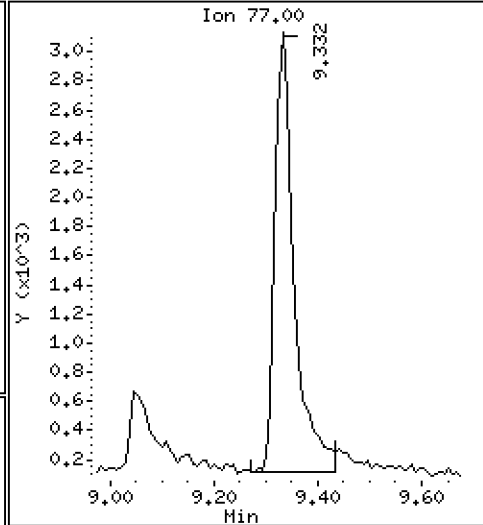
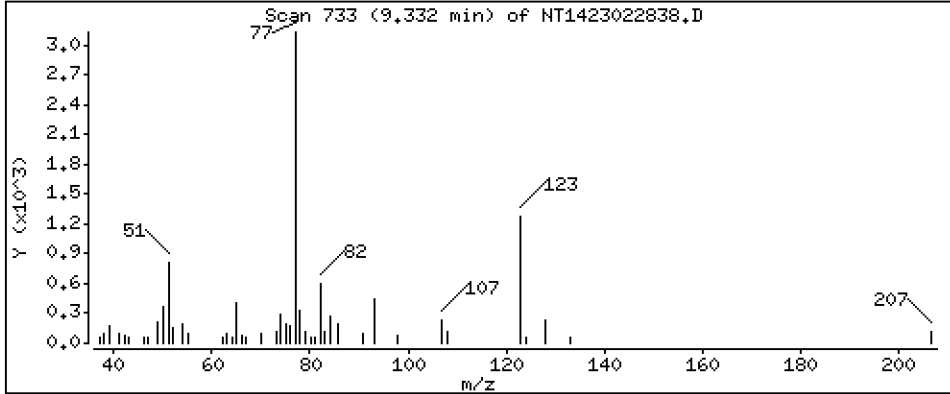
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

19 Nitrobenzene

Concentration: 0.1999 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

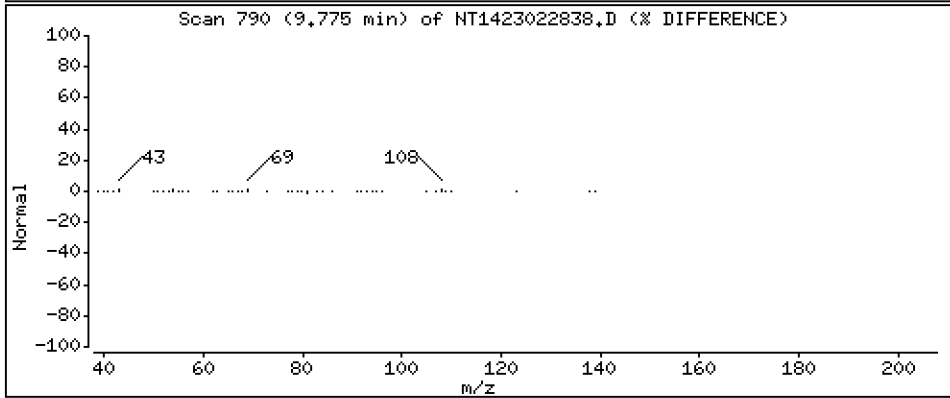
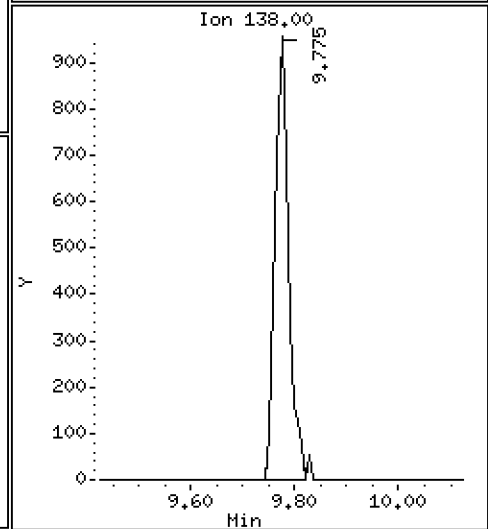
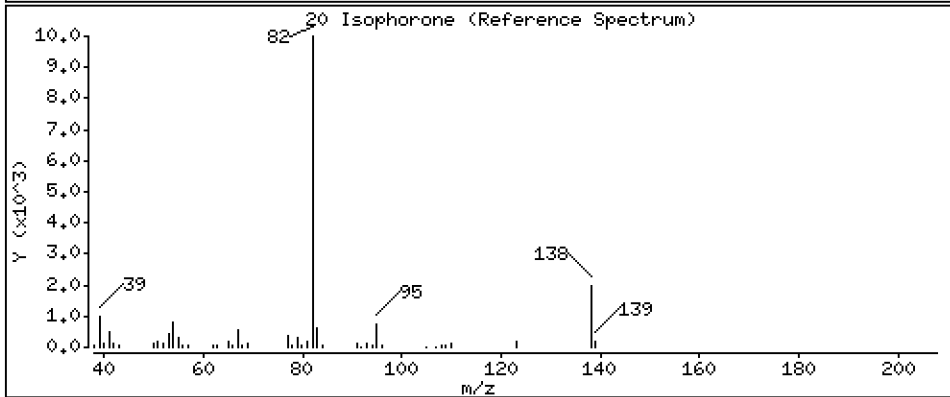
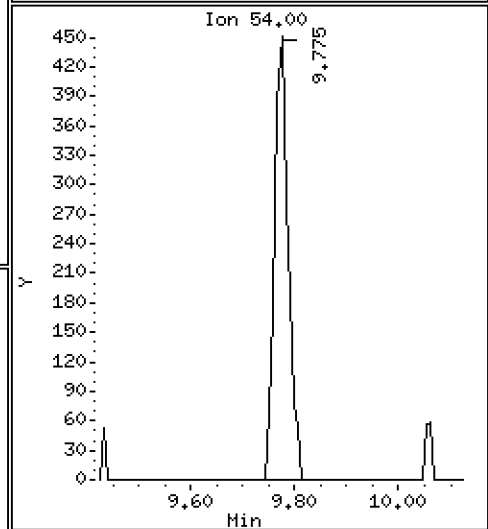
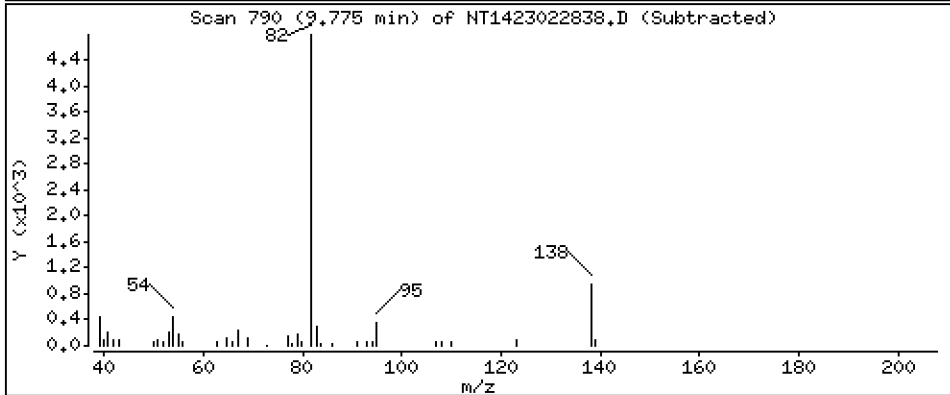
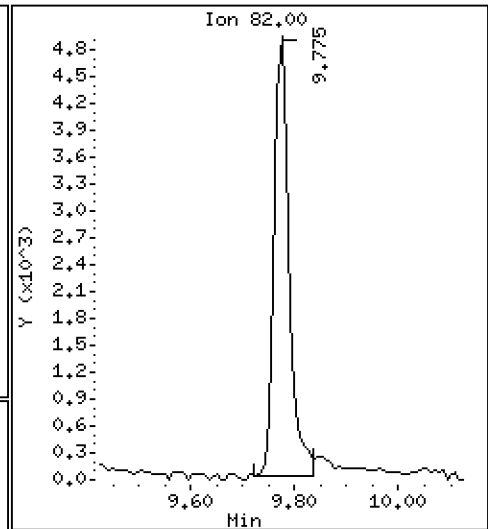
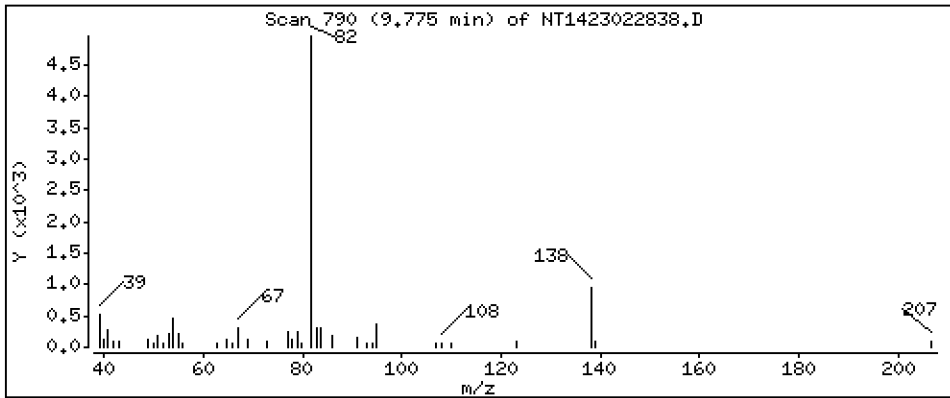
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

20 Isophorone

Concentration: 0,1578 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

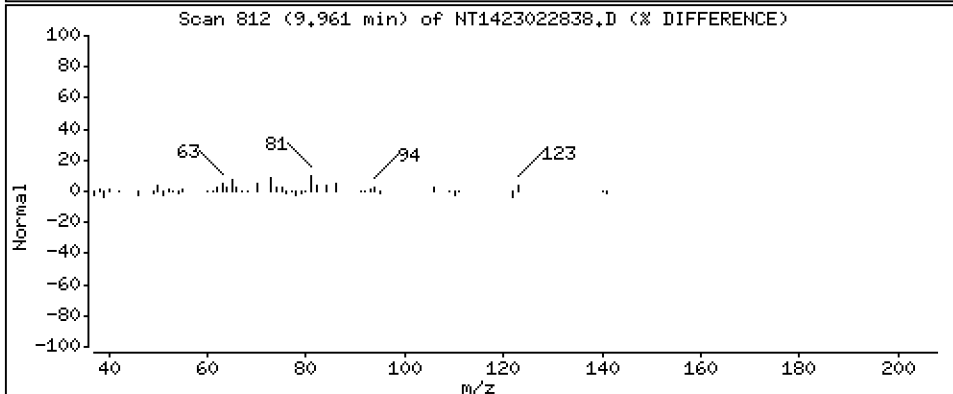
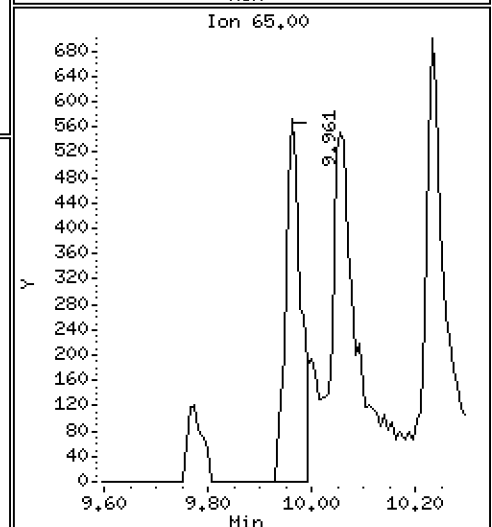
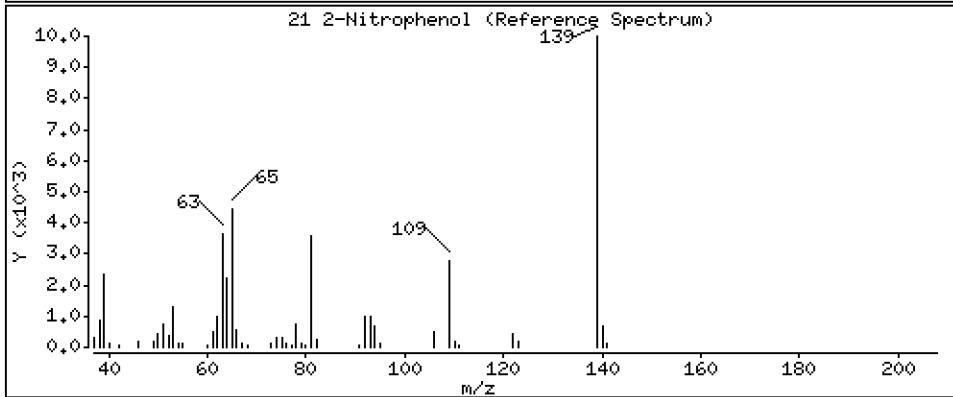
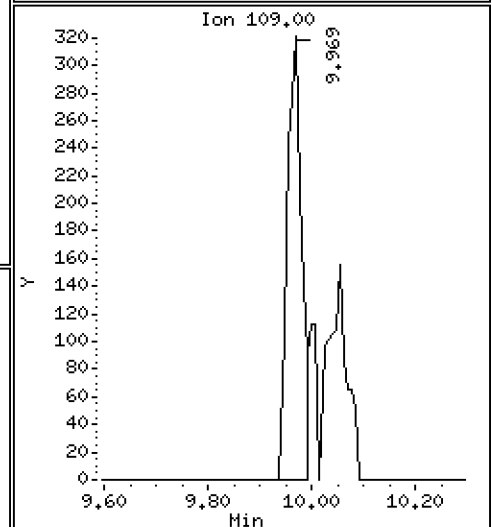
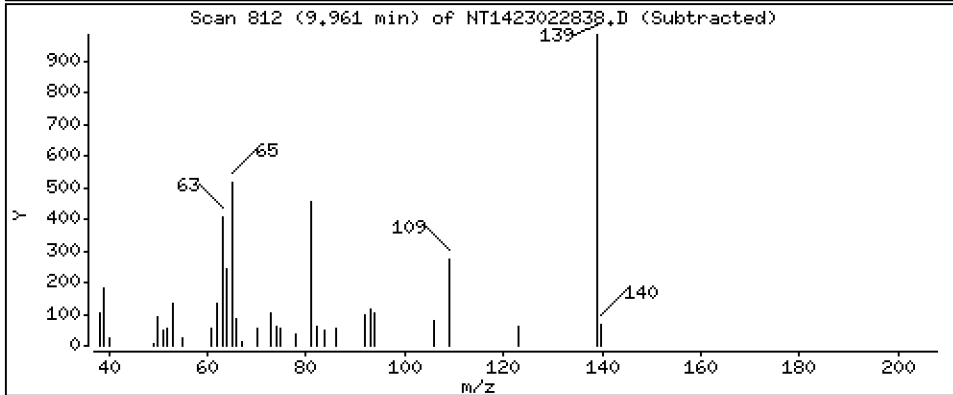
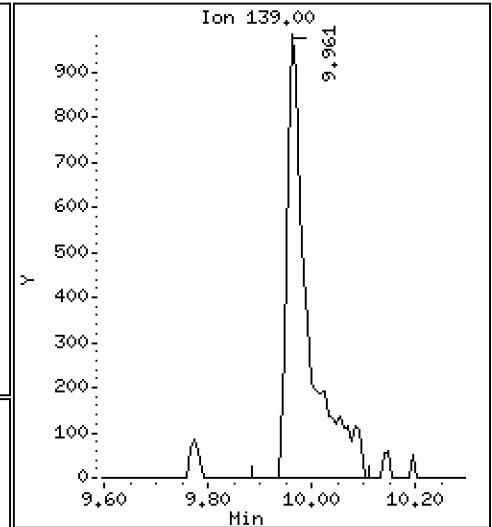
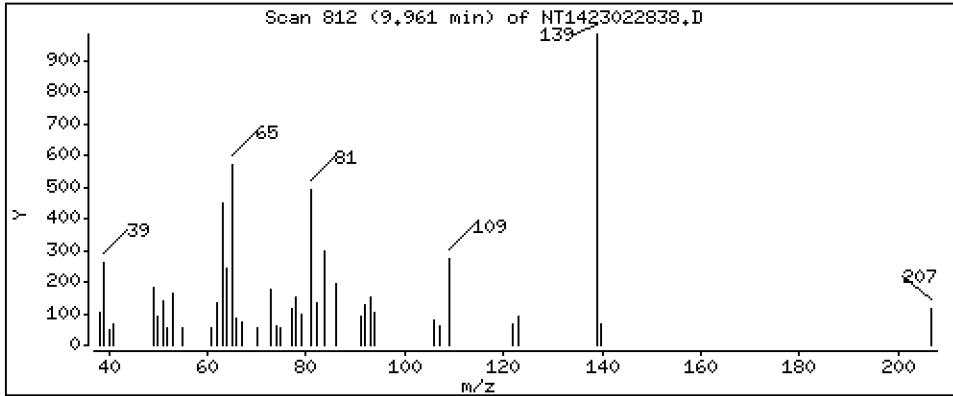
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

21 2-Nitrophenol

Concentration: 0,1547 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

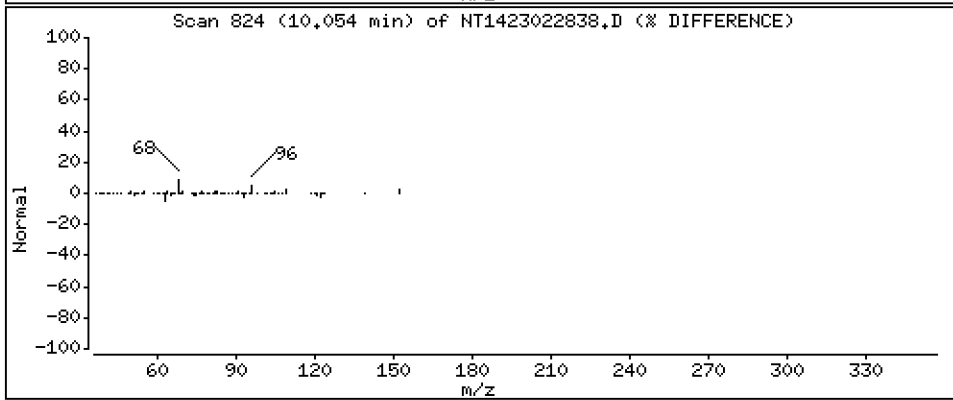
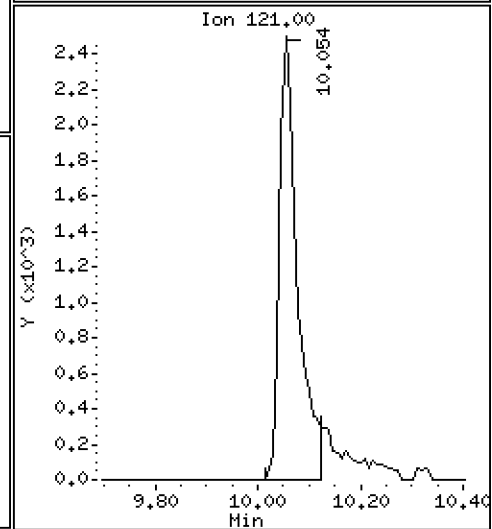
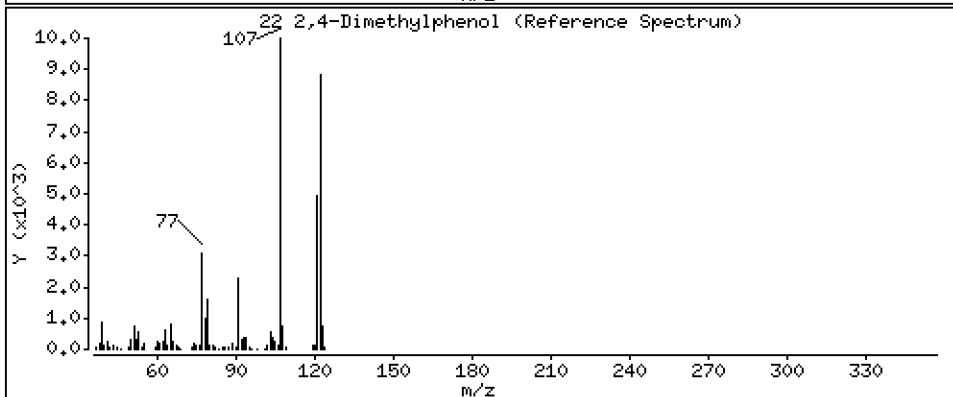
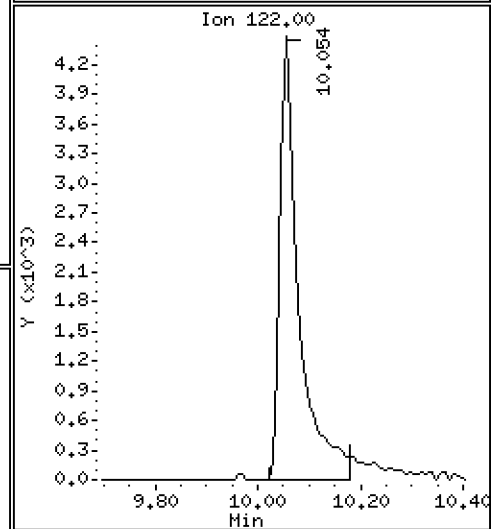
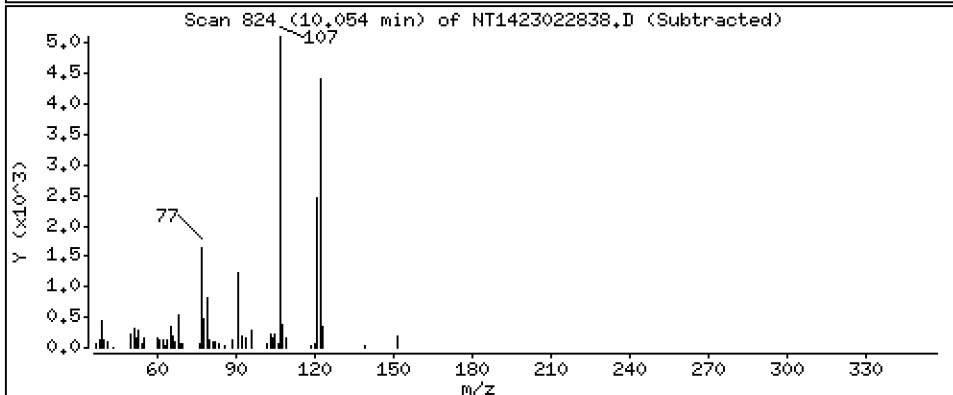
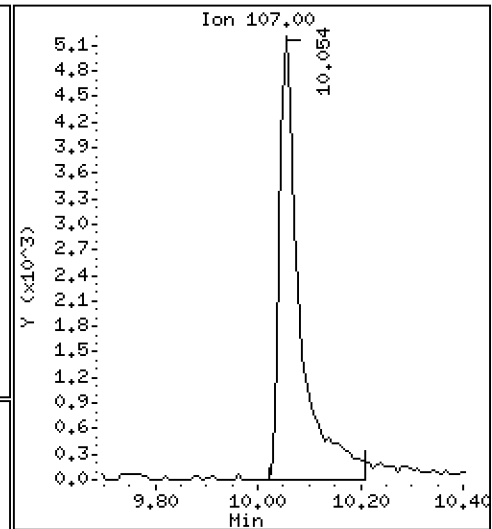
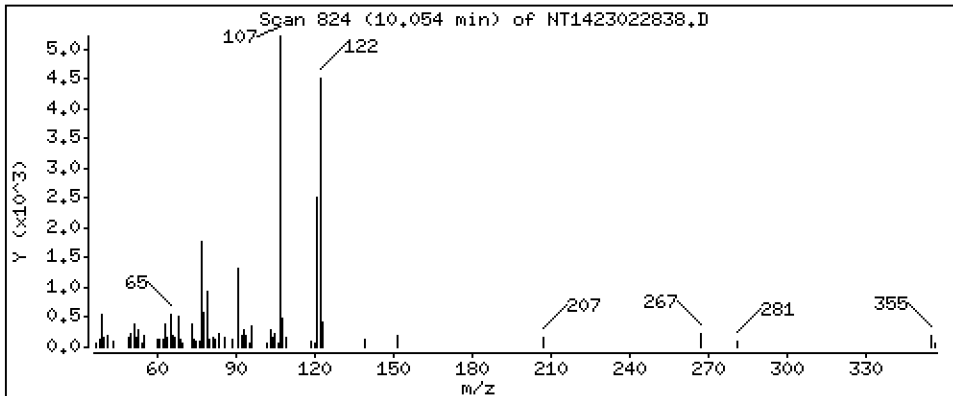
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 0,4027 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

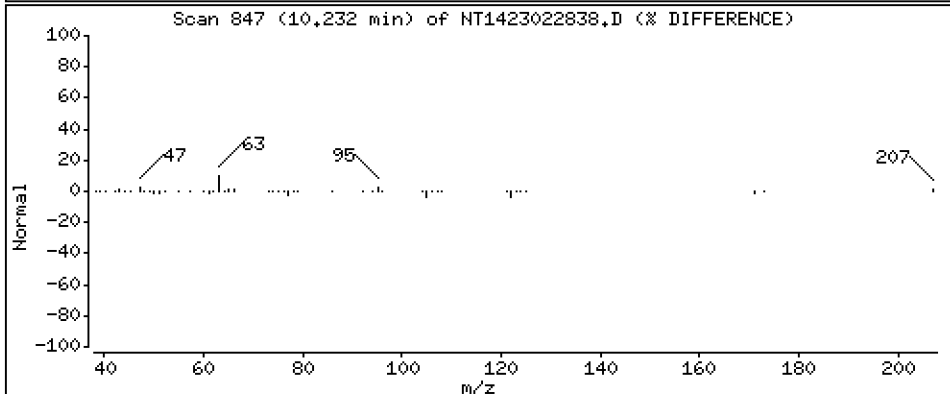
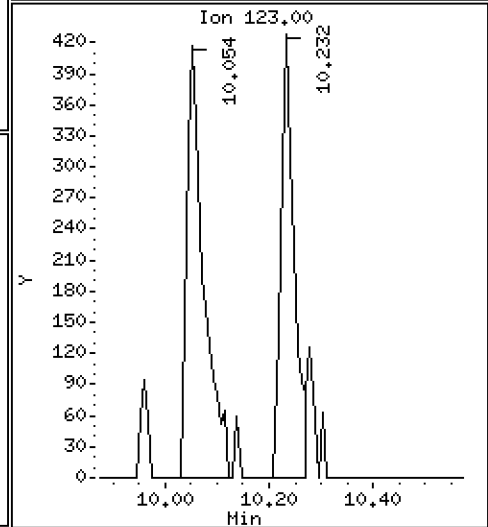
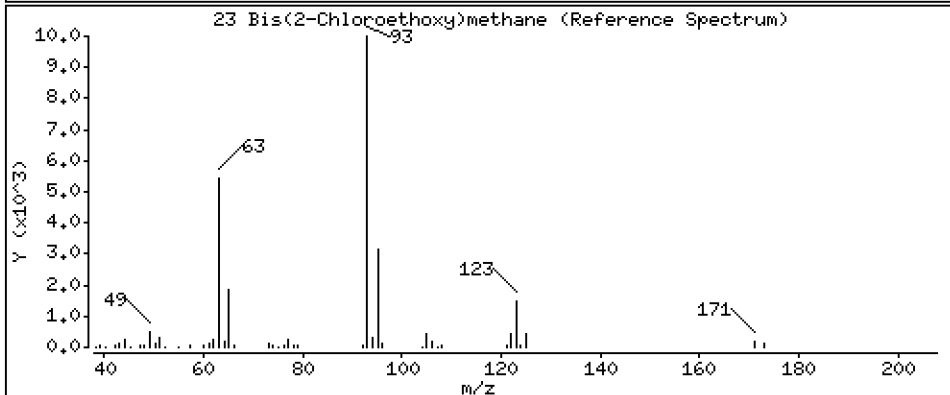
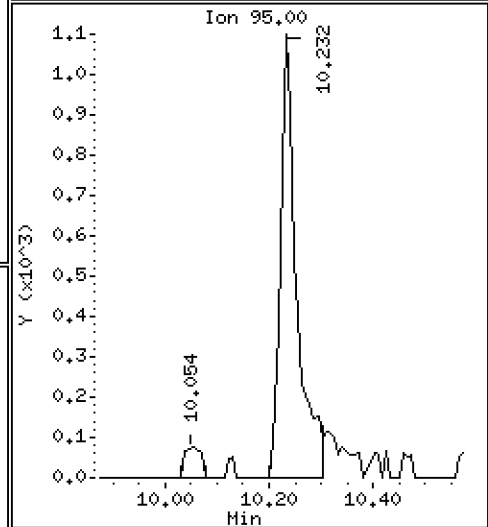
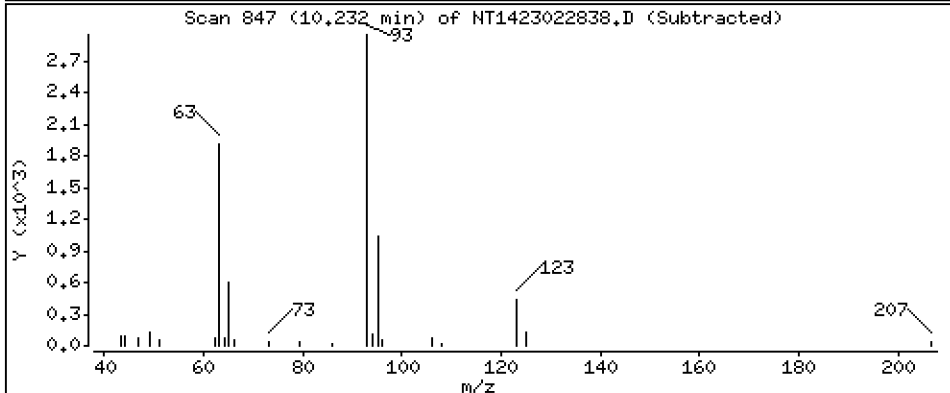
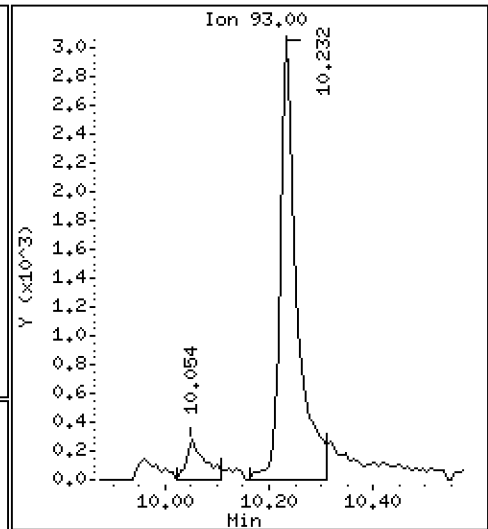
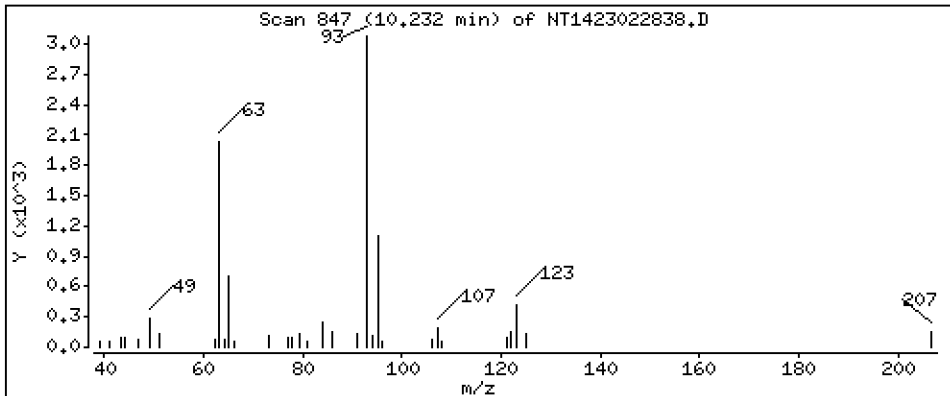
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

23 Bis(2-Chloroethoxy)methane

Concentration: 0.1833 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

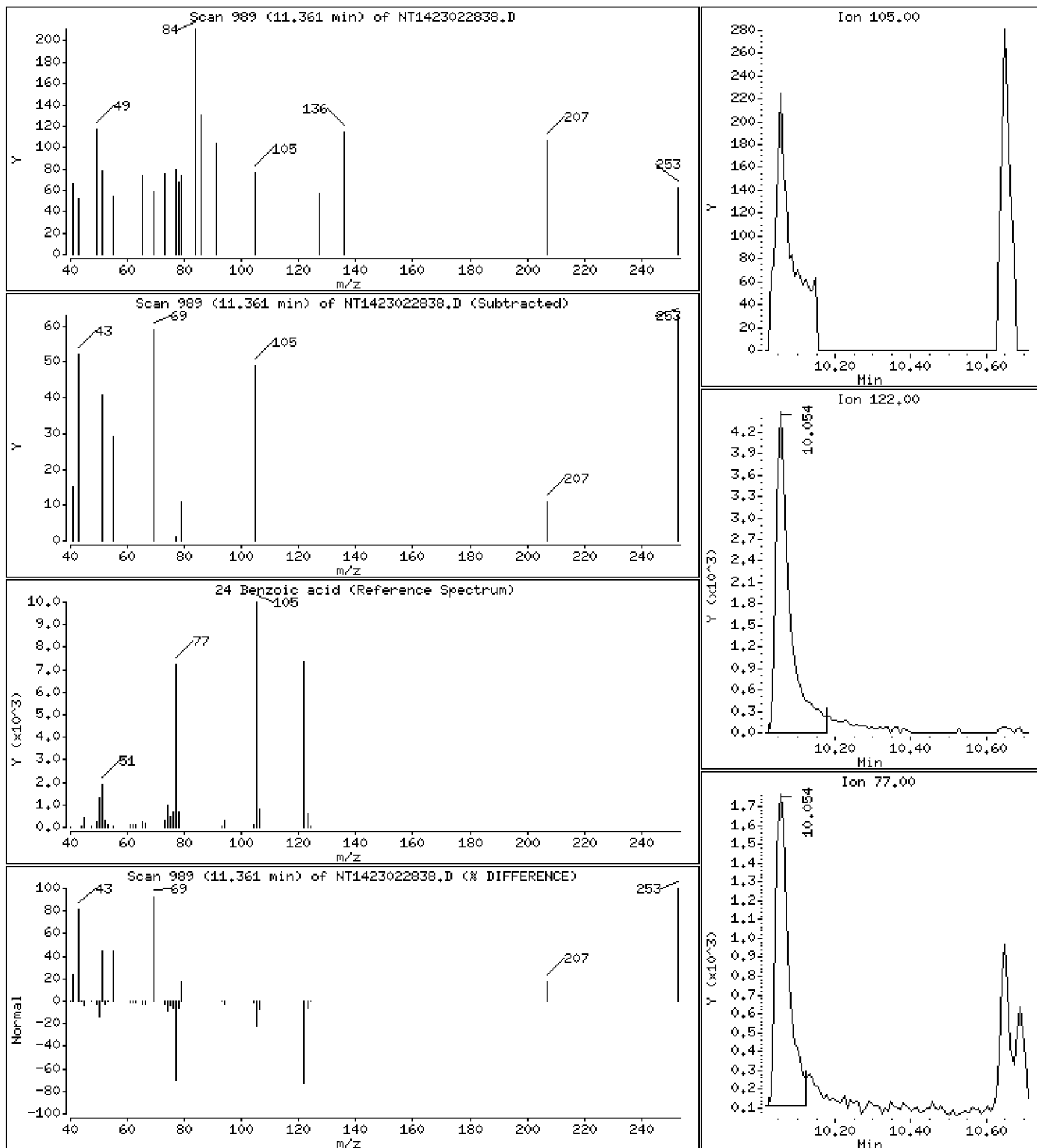
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

24 Benzoic acid

Concentration: 0.08173 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

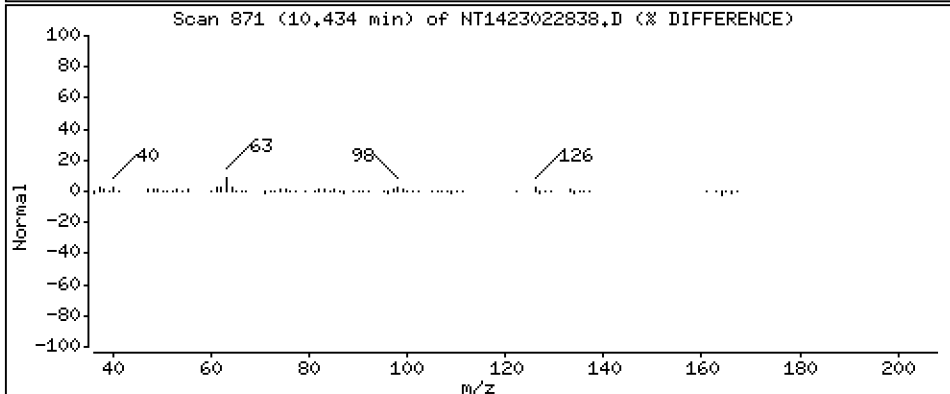
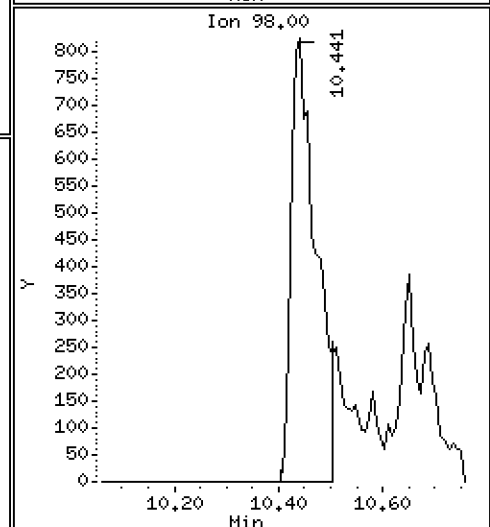
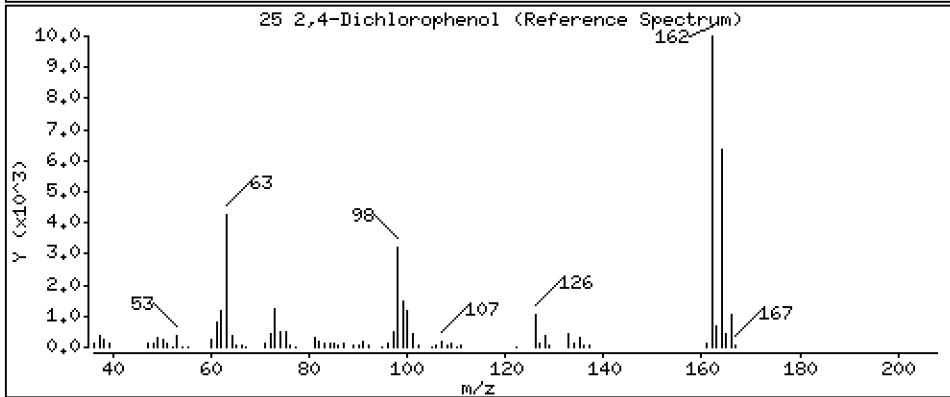
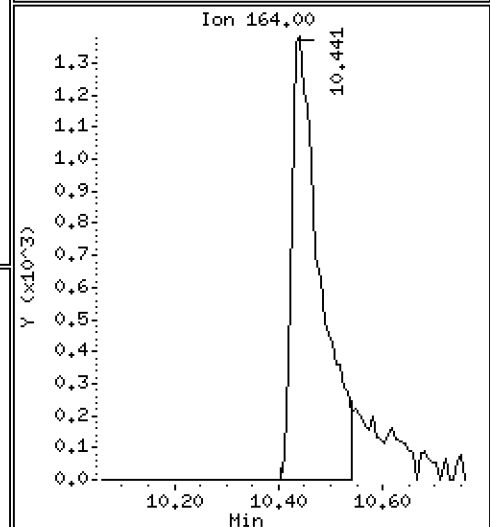
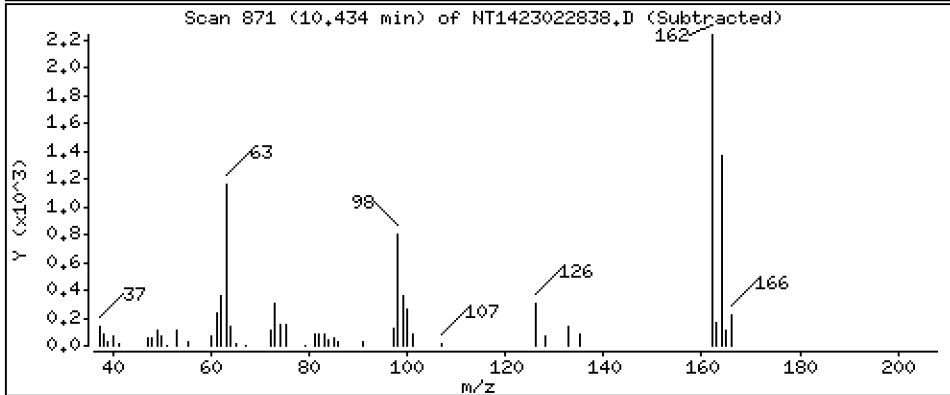
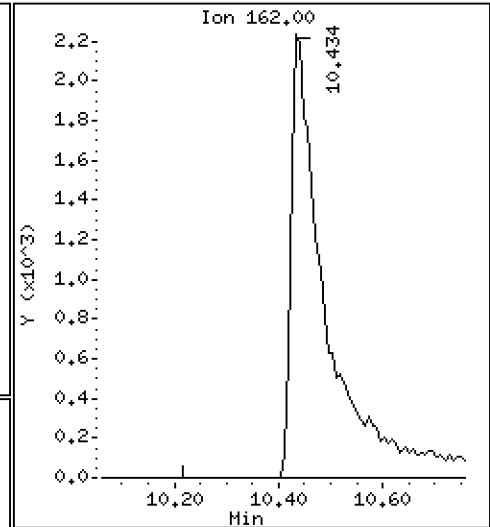
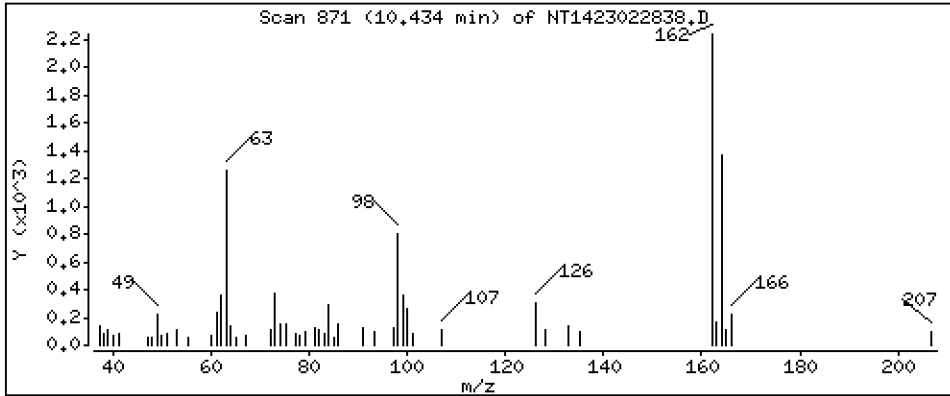
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 0,3194 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

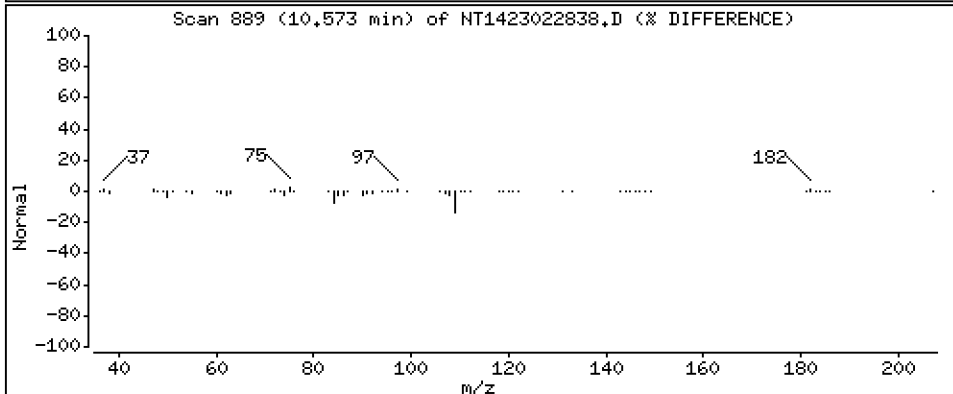
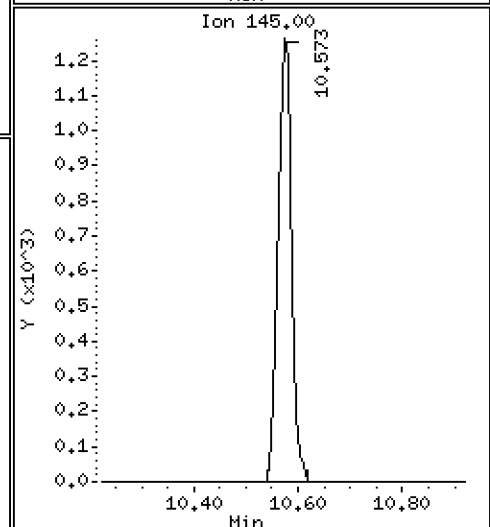
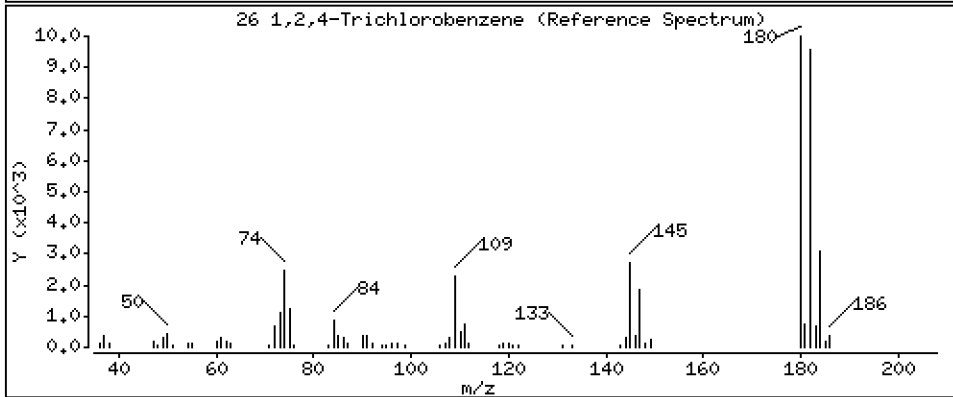
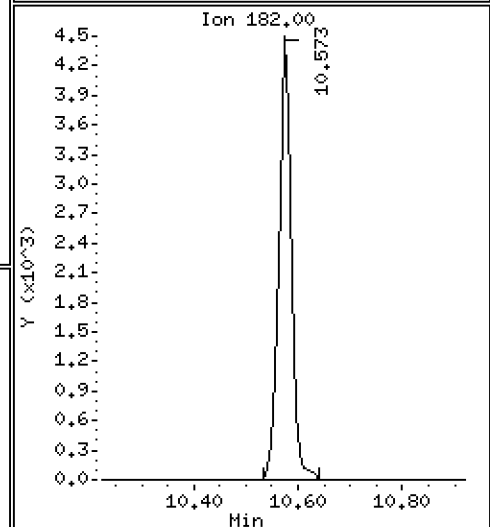
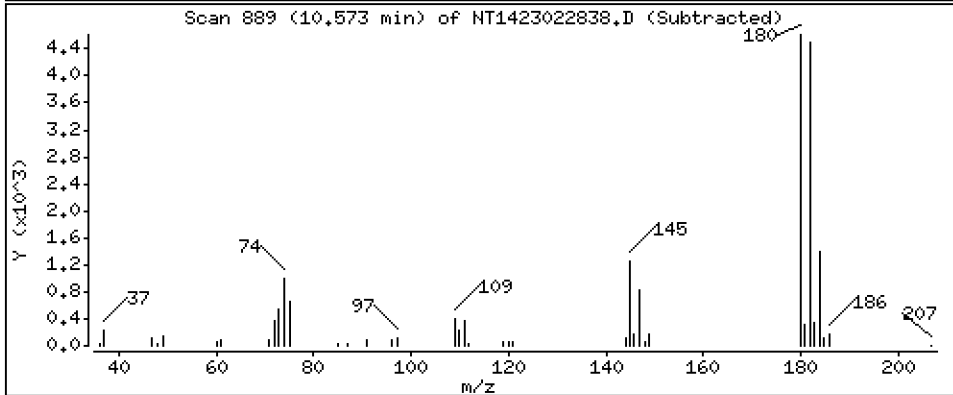
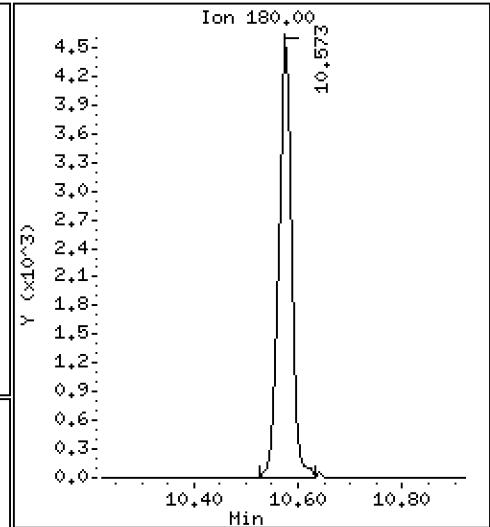
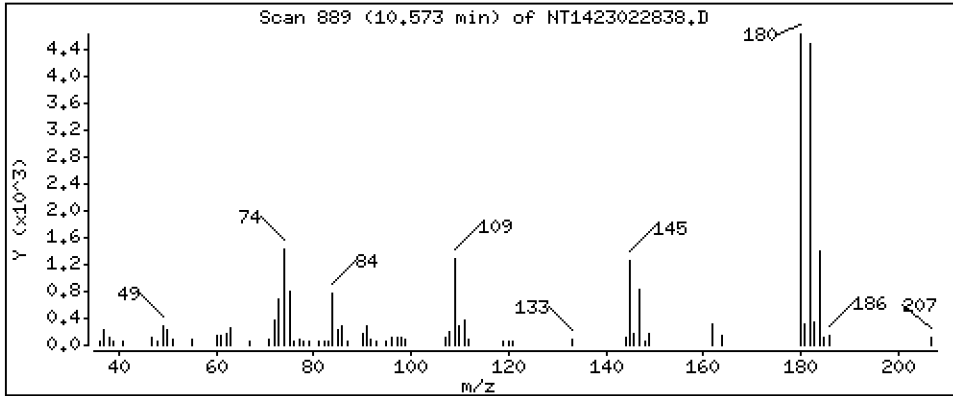
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 0,1994 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

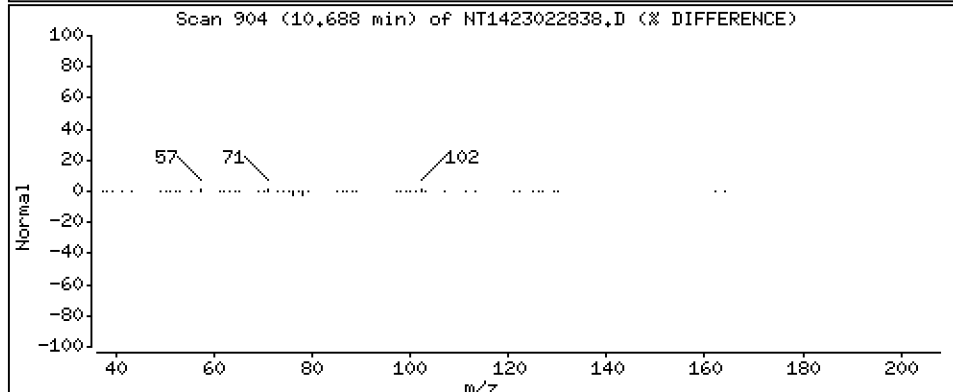
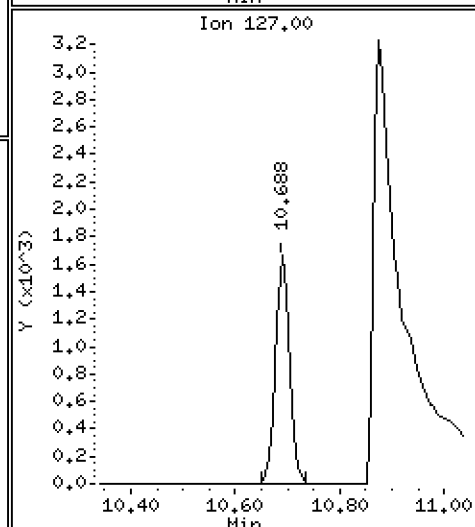
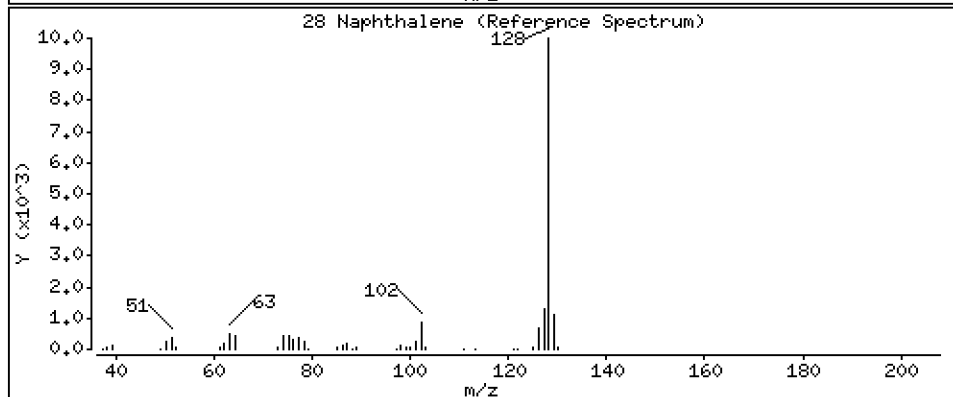
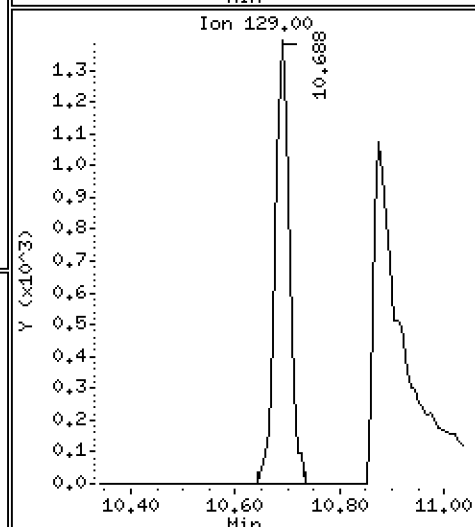
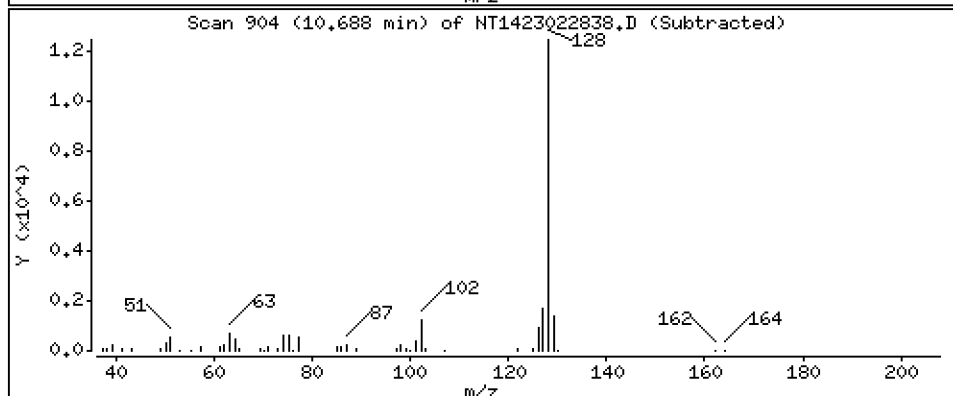
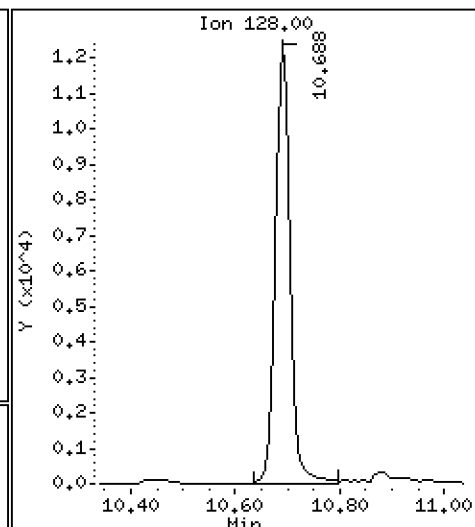
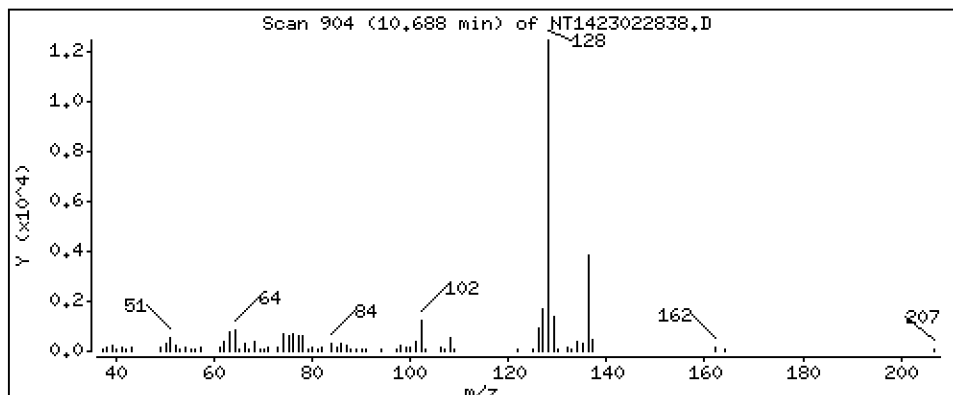
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 0,2156 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

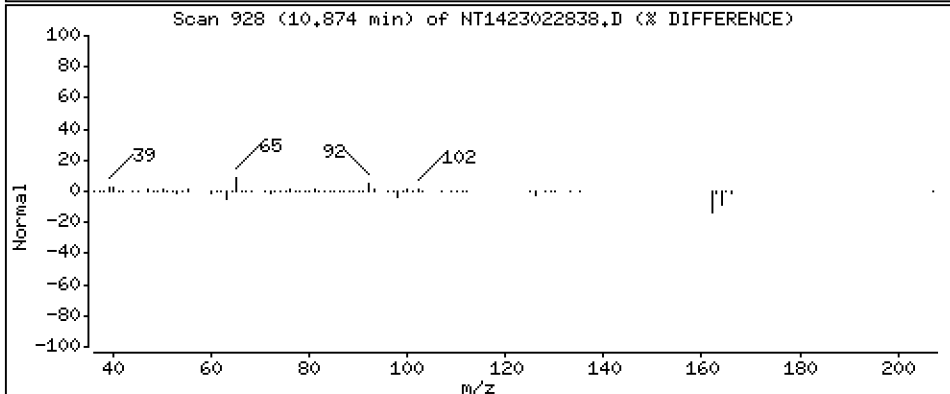
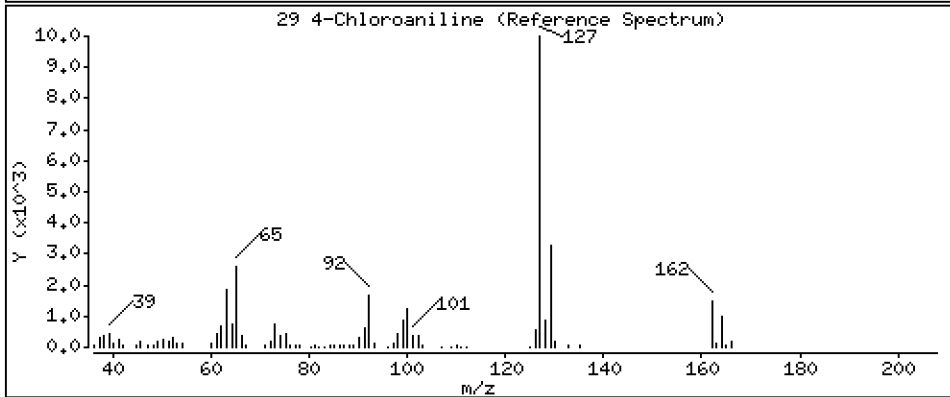
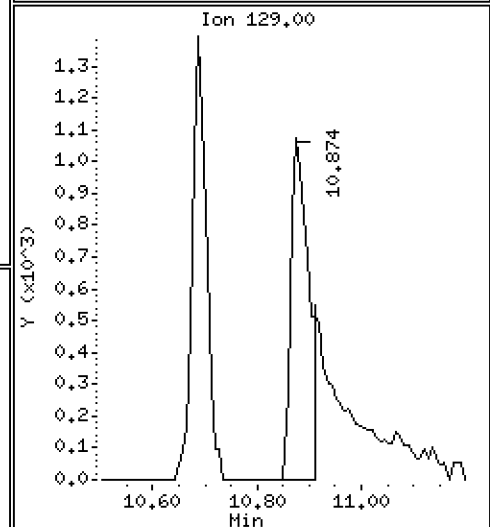
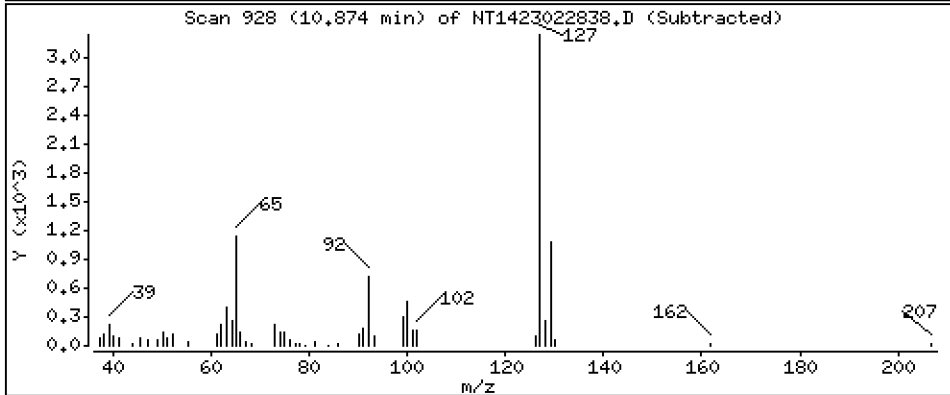
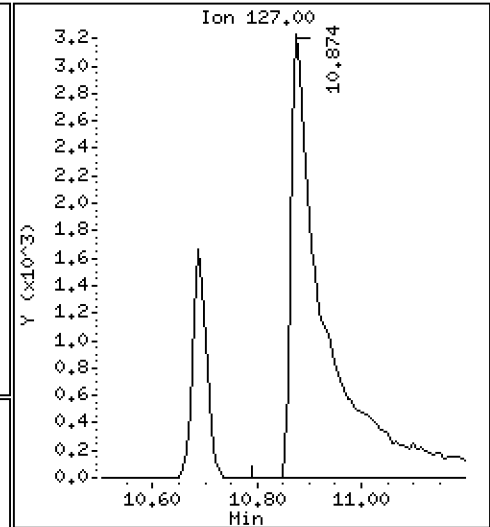
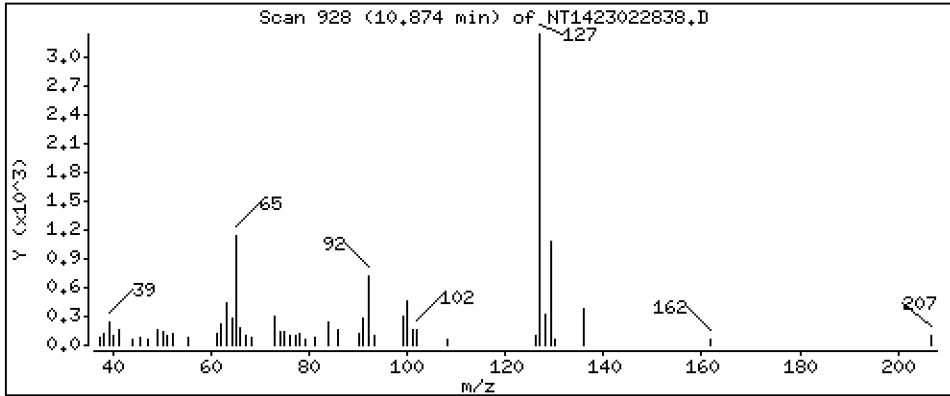
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

29 4-Chloroaniline

Concentration: 0,3476 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

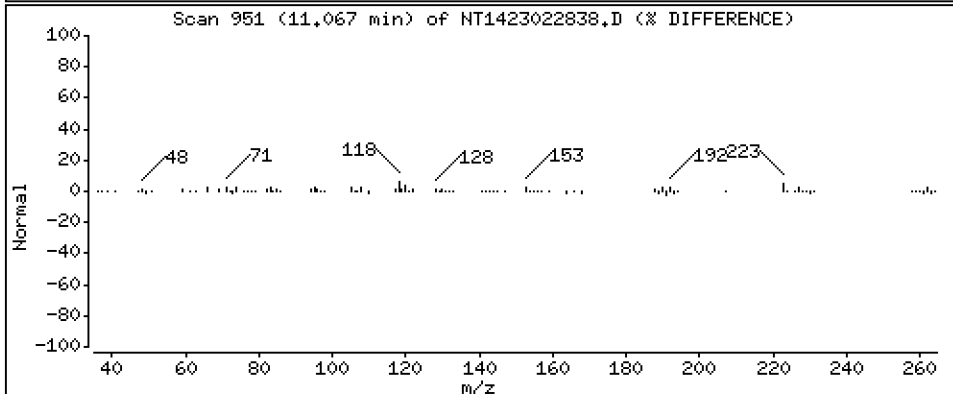
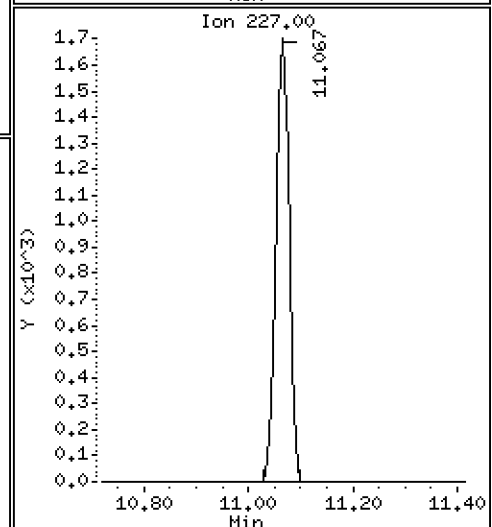
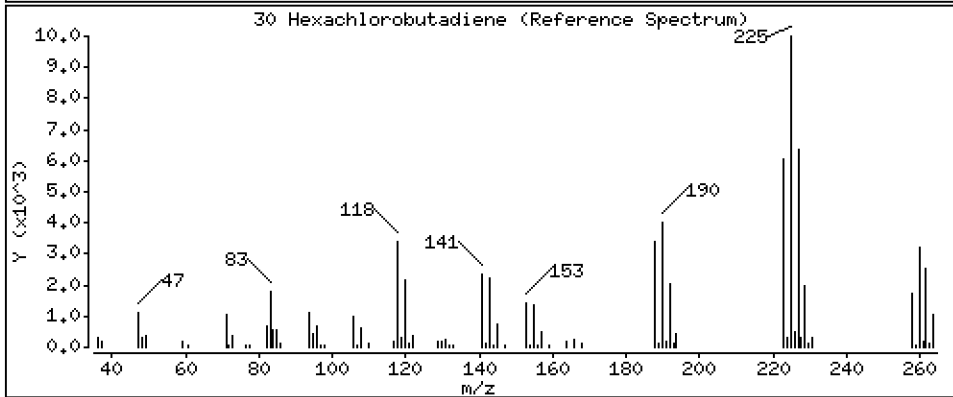
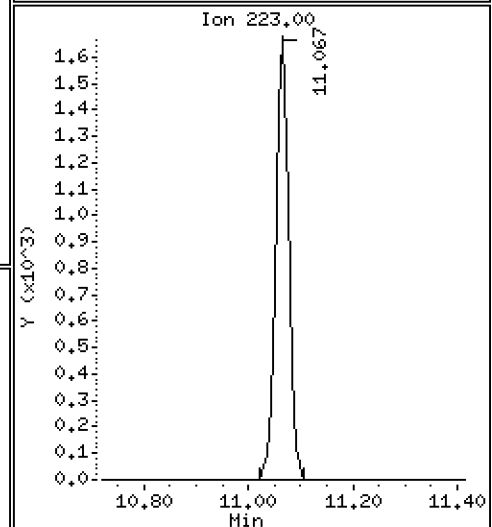
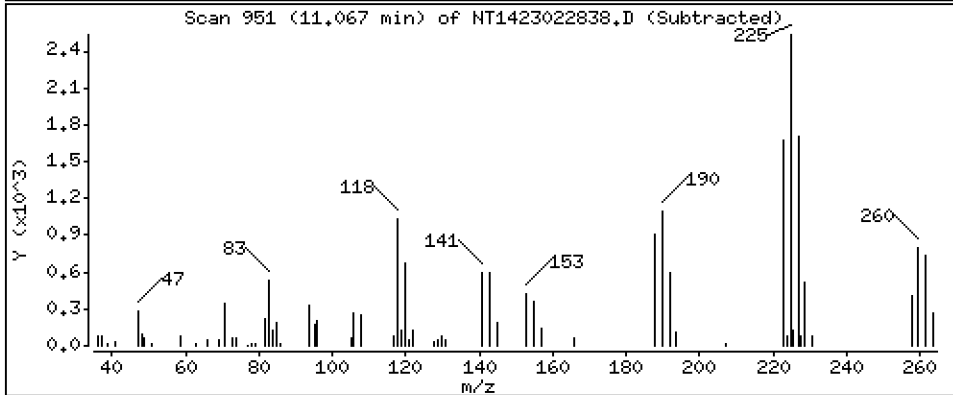
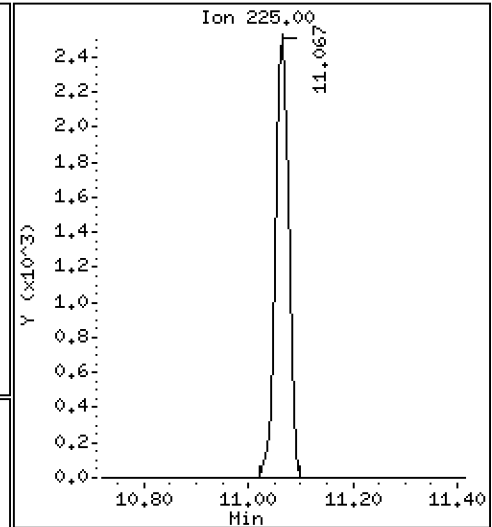
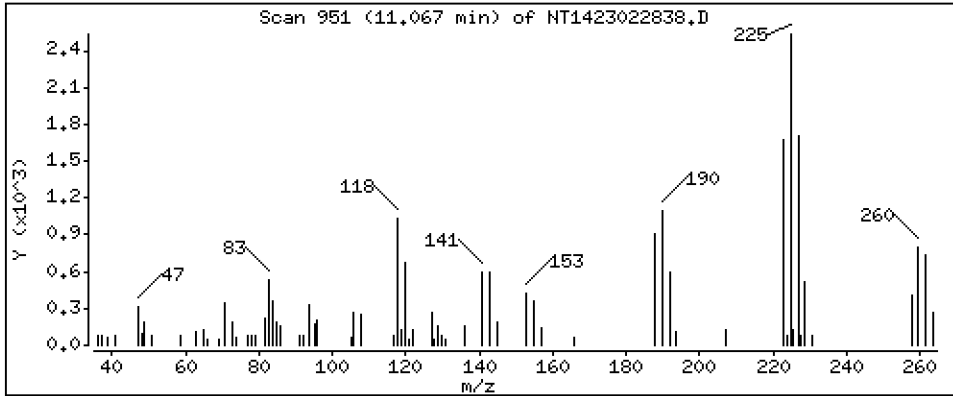
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

30 Hexachlorobutadiene

Concentration: 0.1778 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

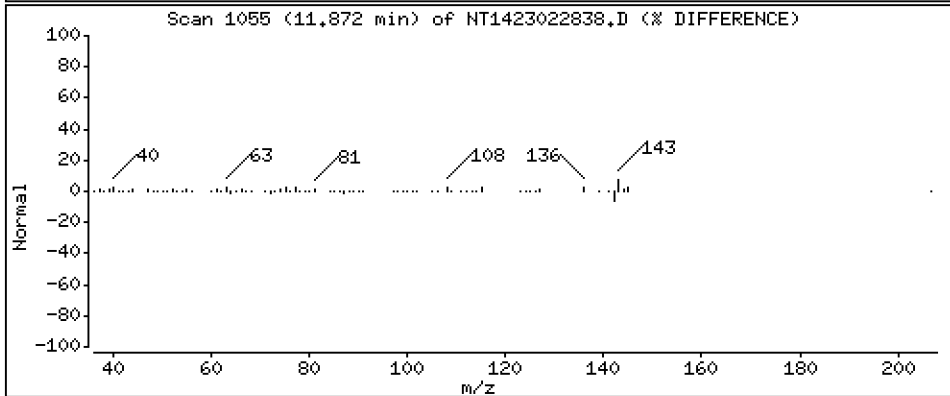
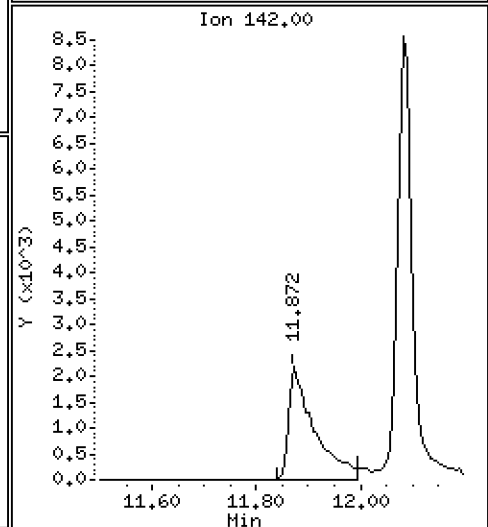
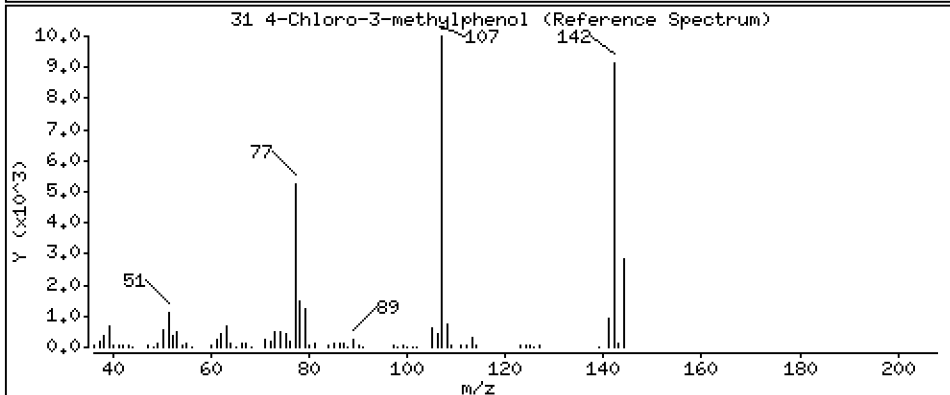
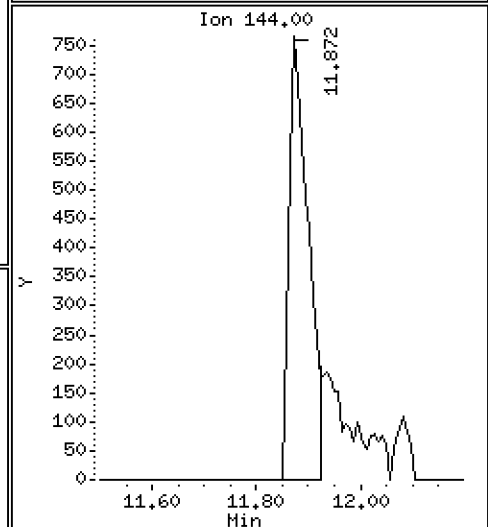
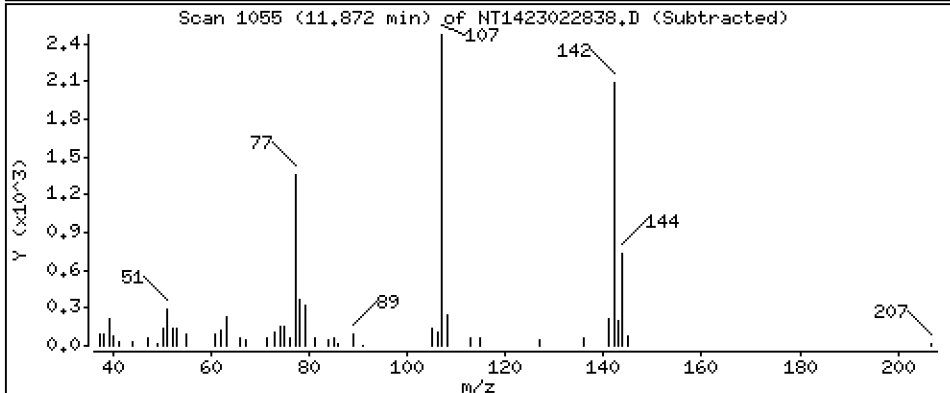
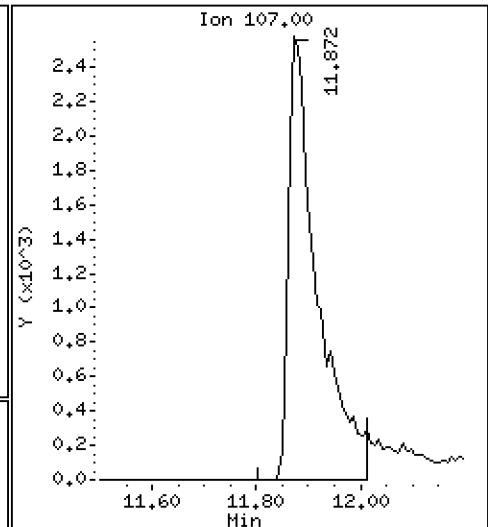
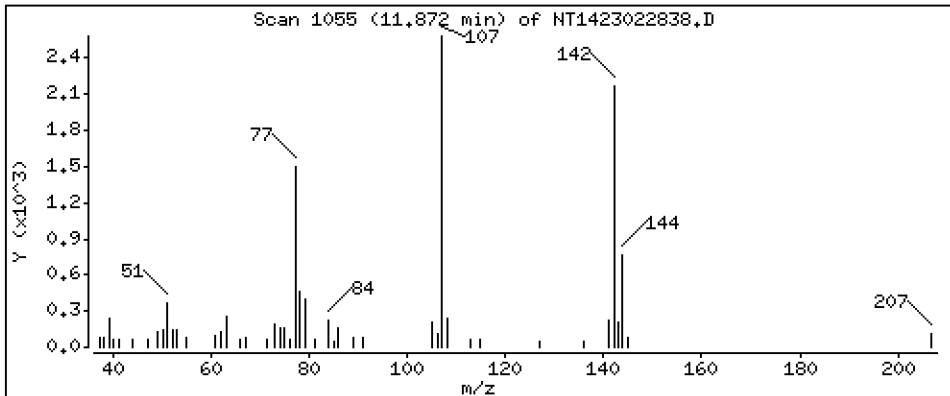
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

31 4-Chloro-3-methylphenol

Concentration: 0,3257 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

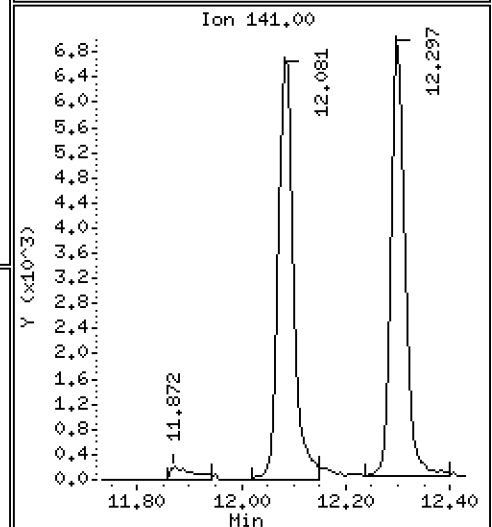
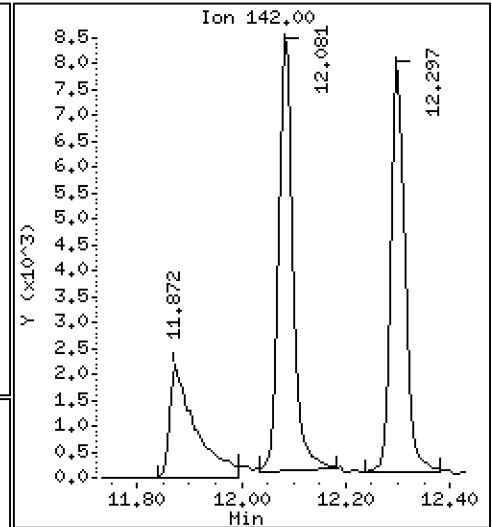
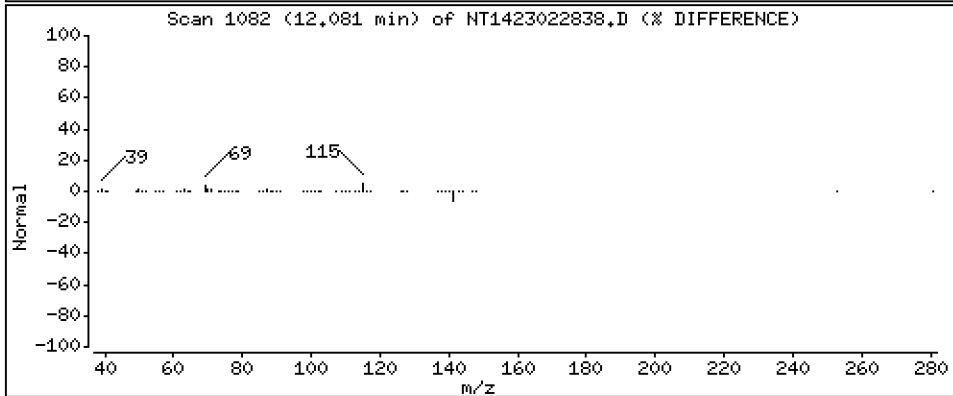
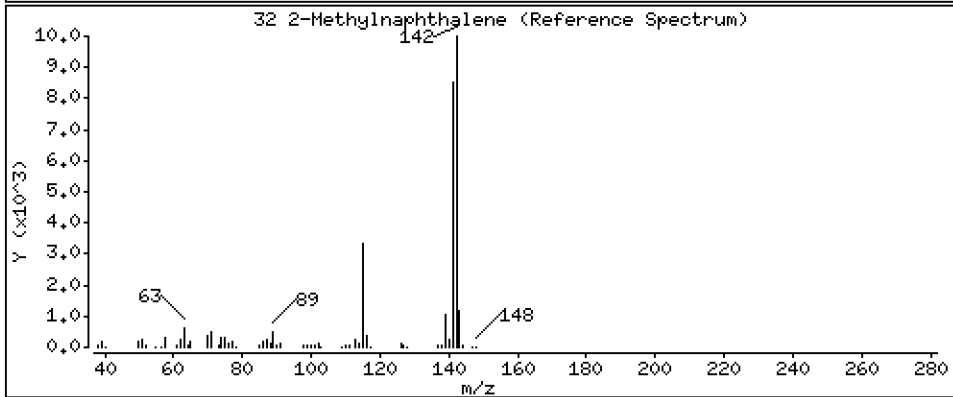
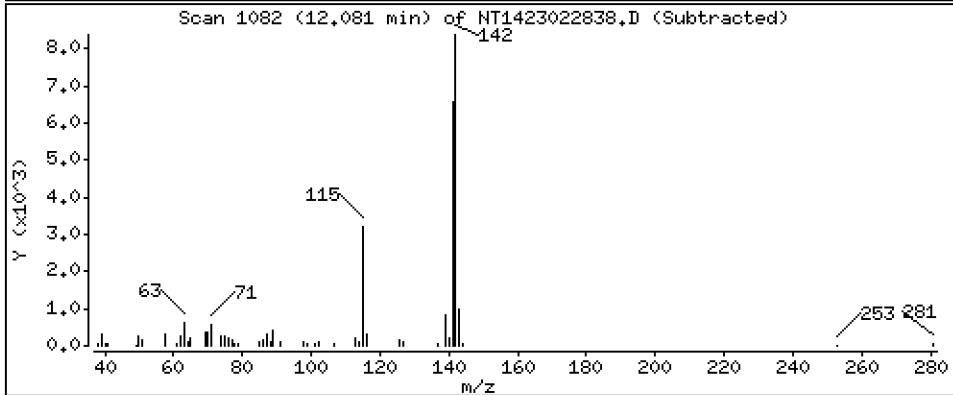
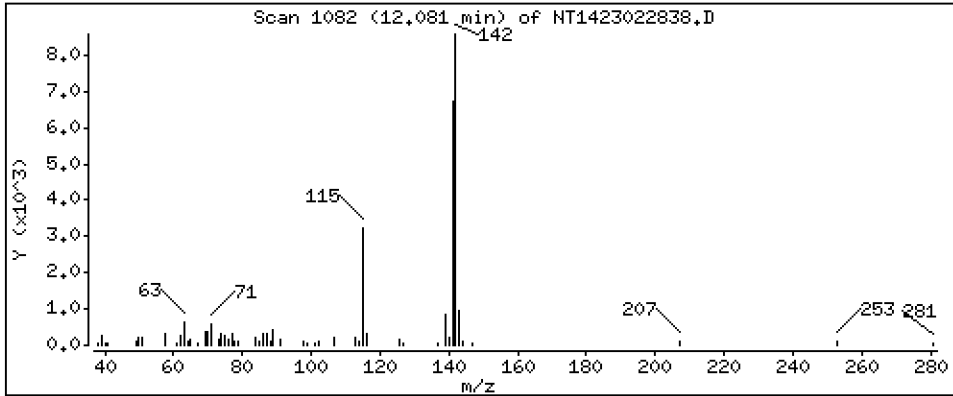
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 0,1925 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

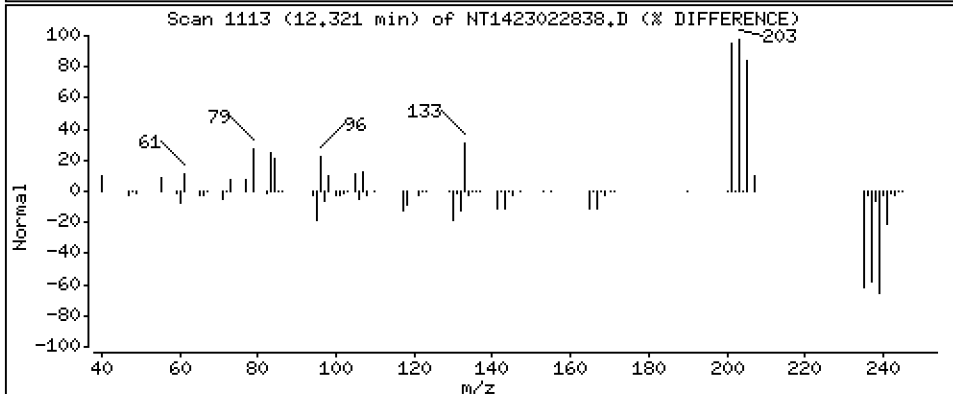
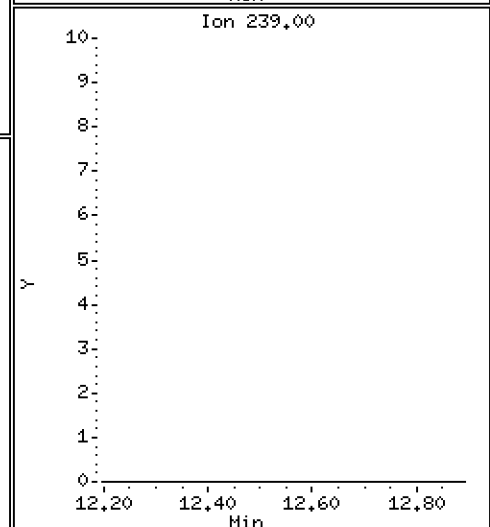
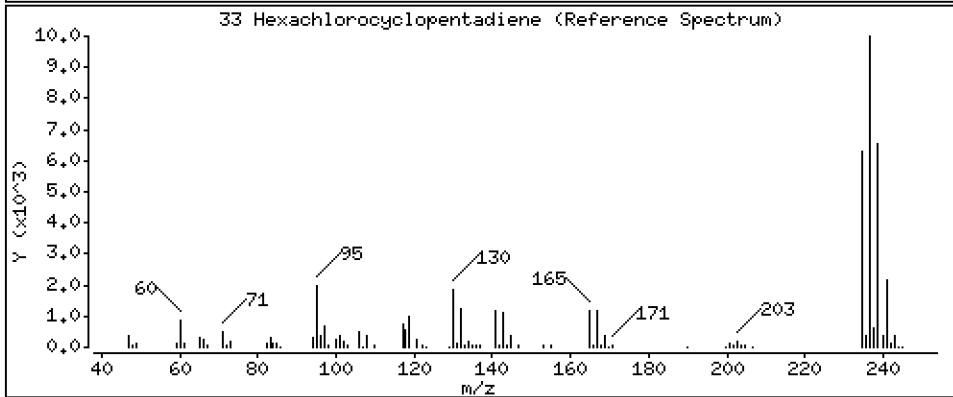
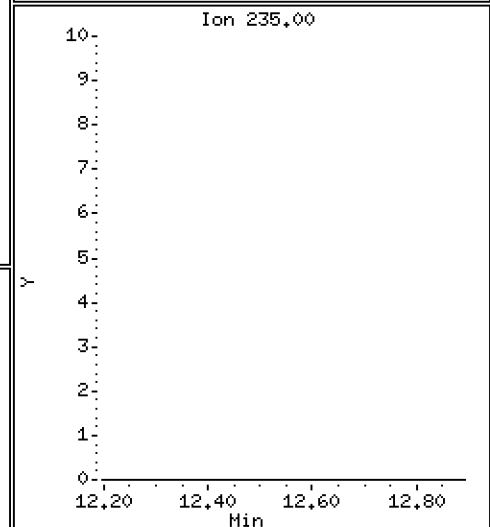
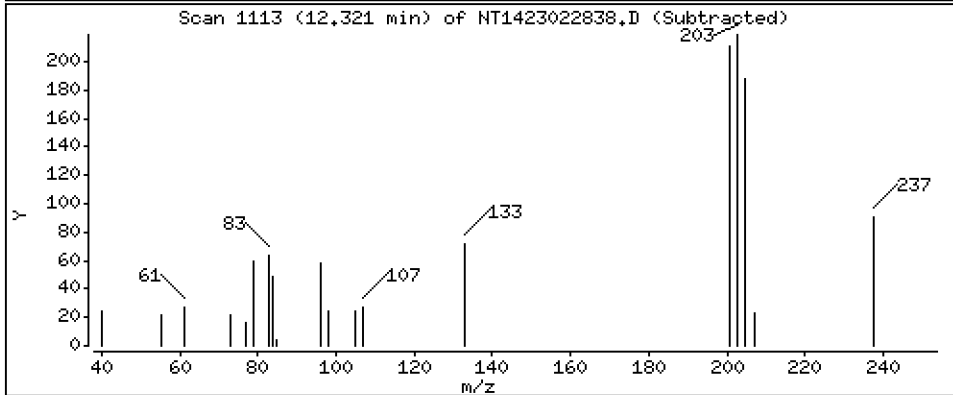
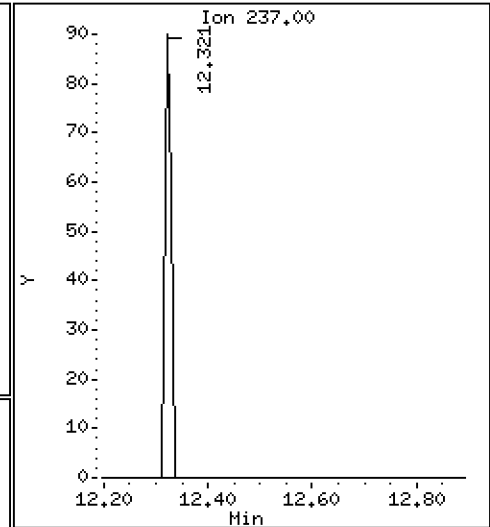
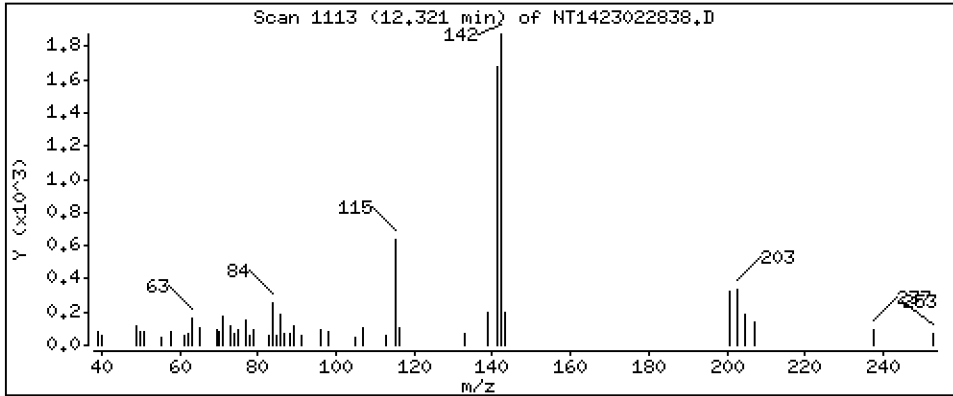
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

33 Hexachlorocyclopentadiene

Concentration: 0,002849 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

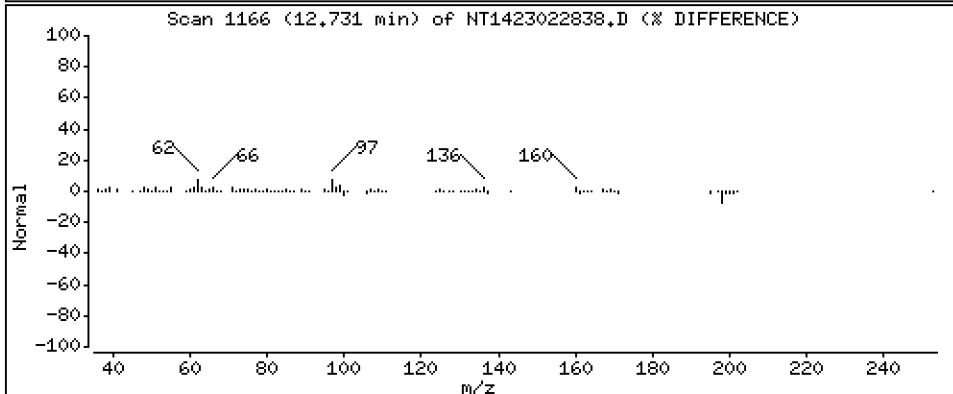
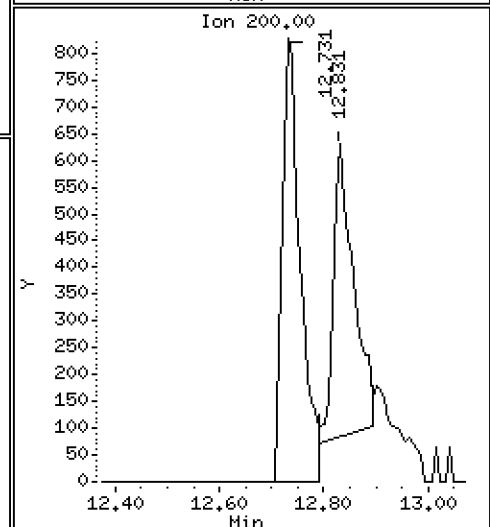
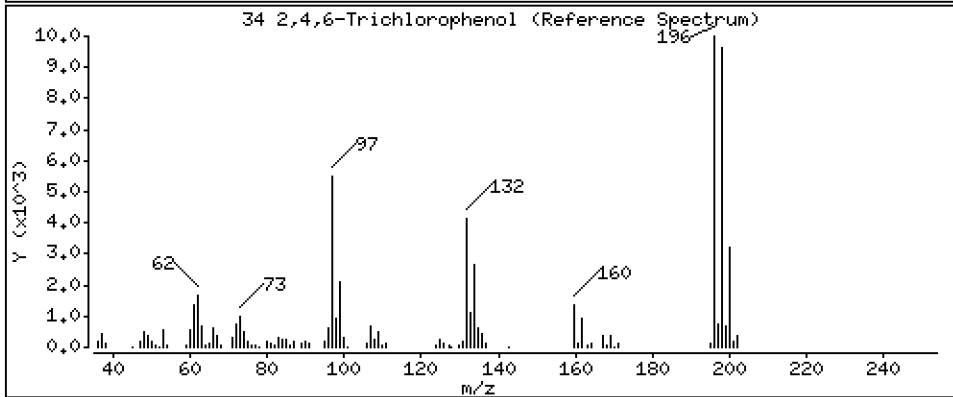
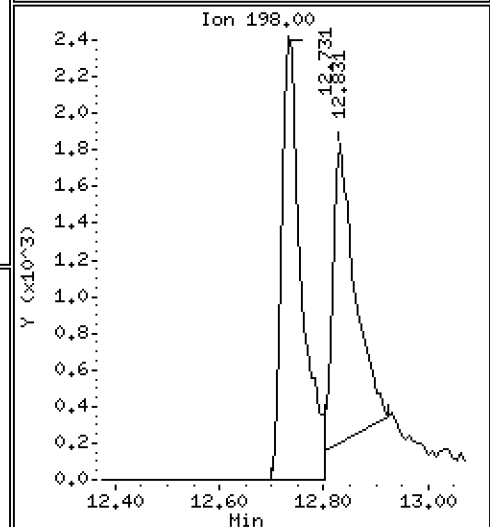
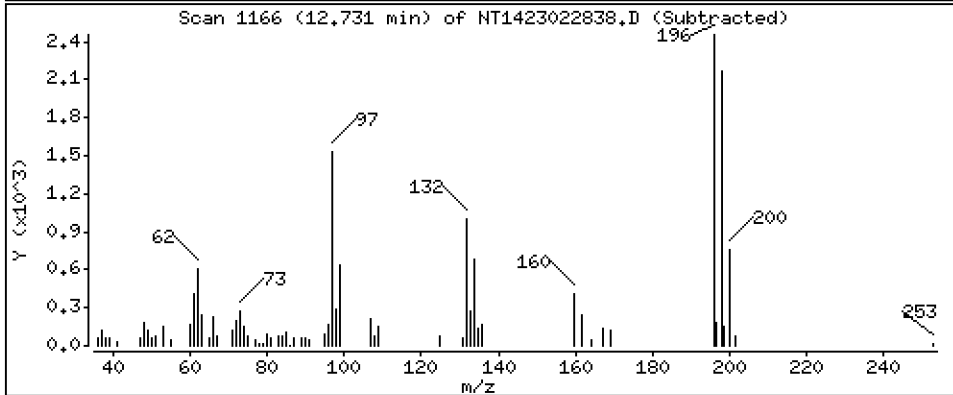
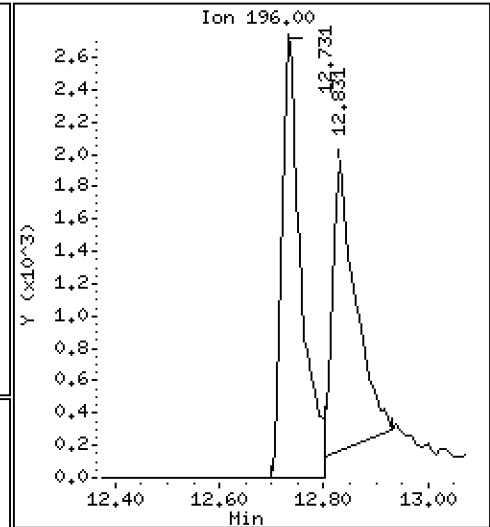
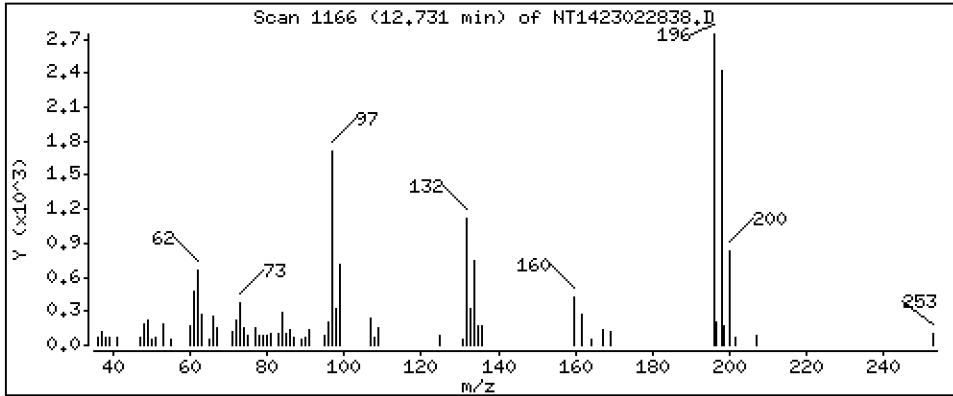
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

34 2,4,6-Trichlorophenol

Concentration: 0,3161 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

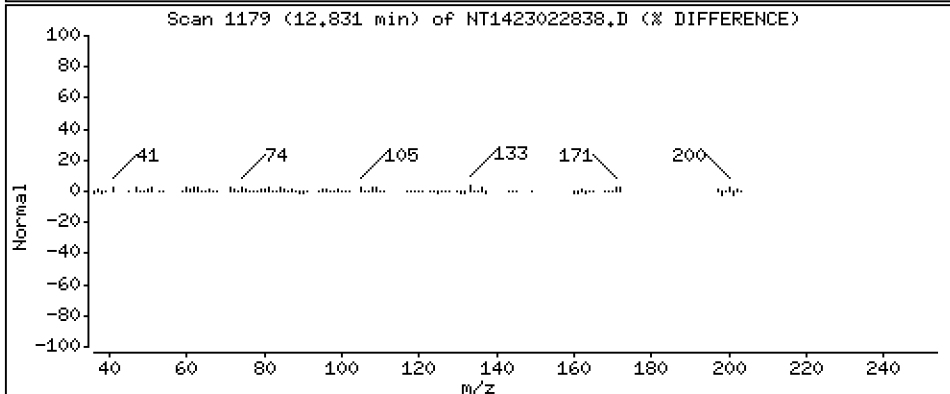
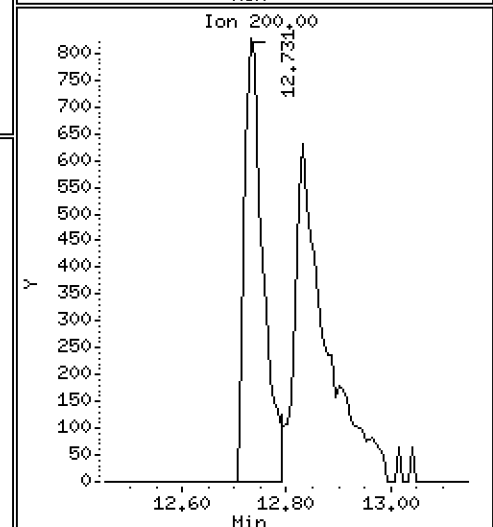
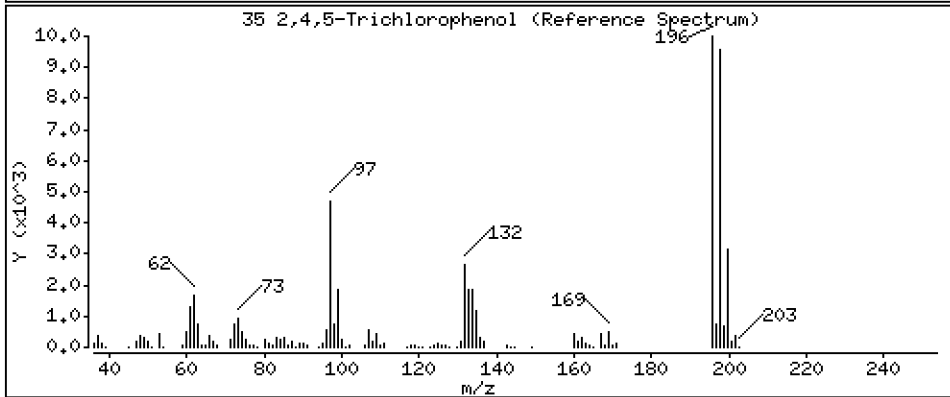
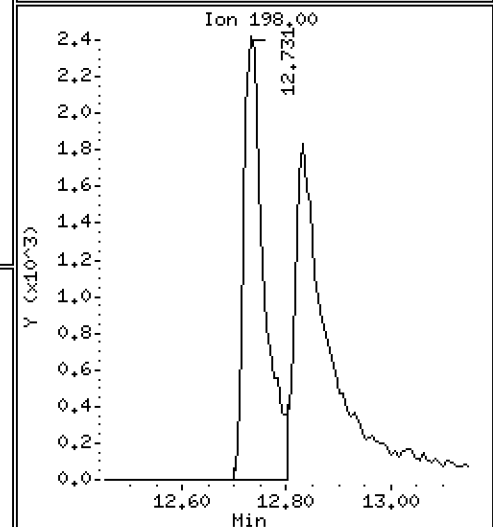
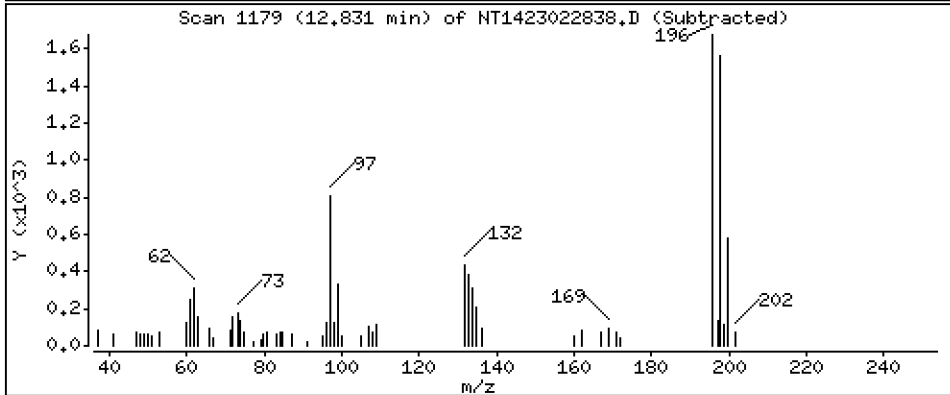
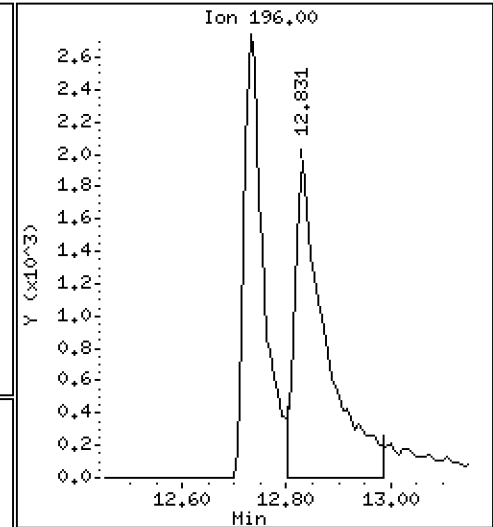
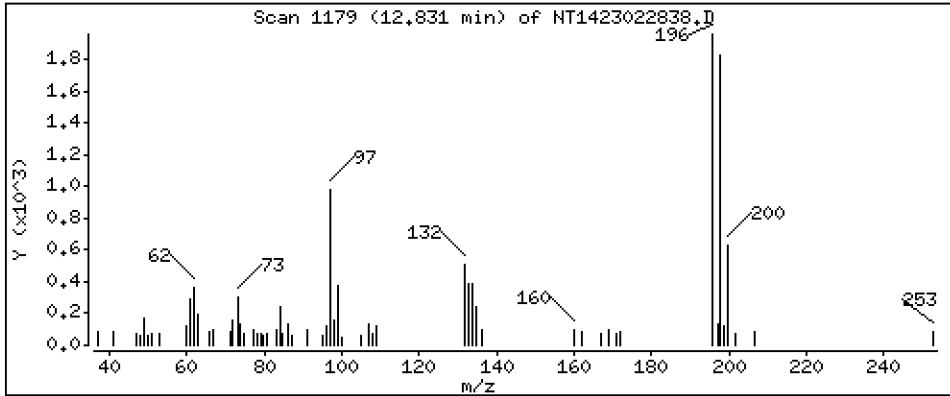
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

35 2,4,5-Trichlorophenol

Concentration: 0,3462 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

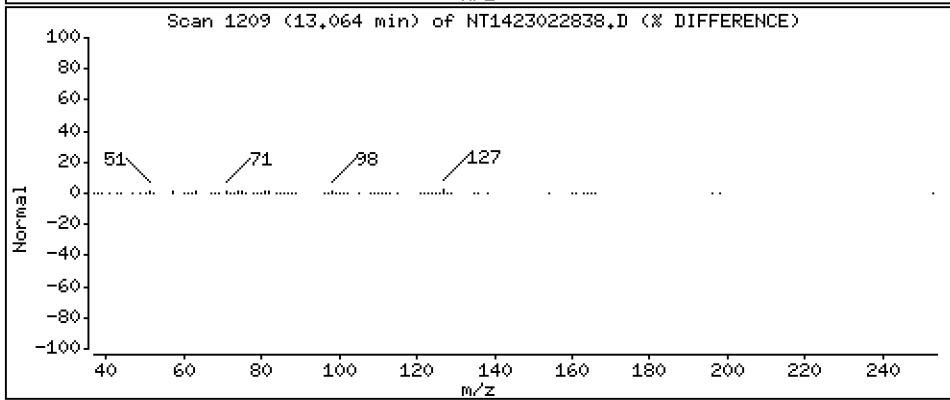
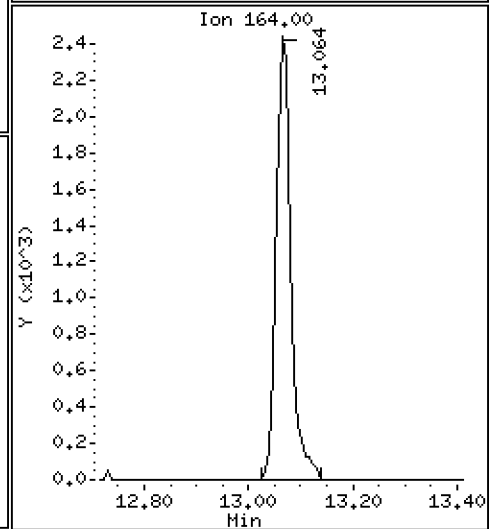
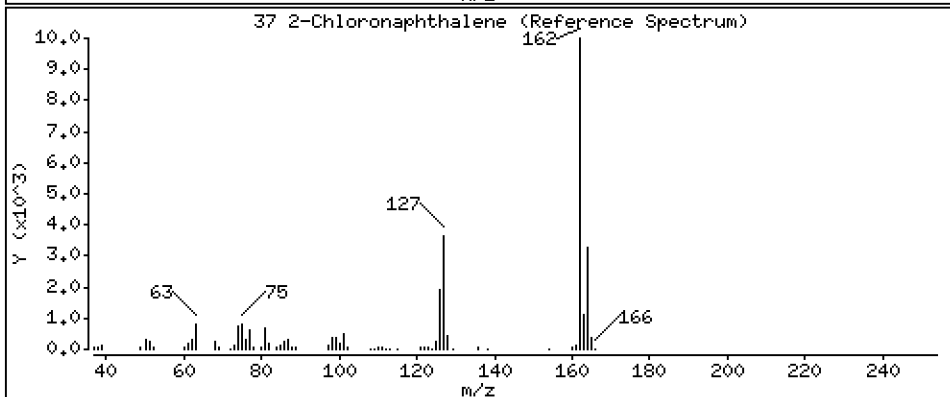
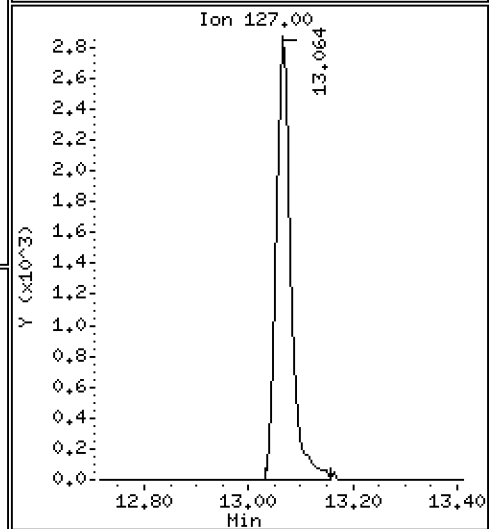
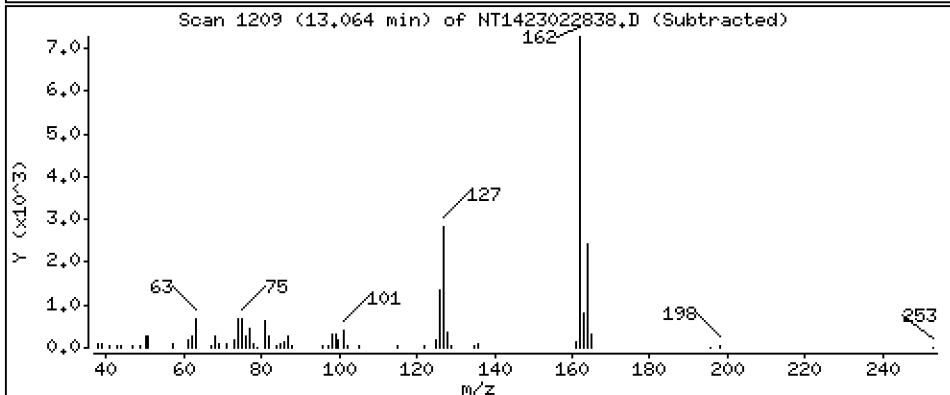
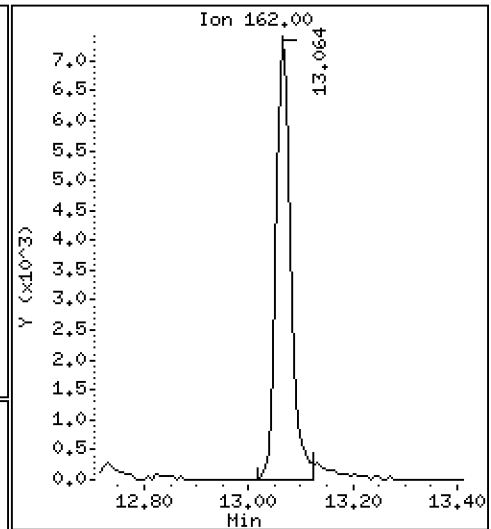
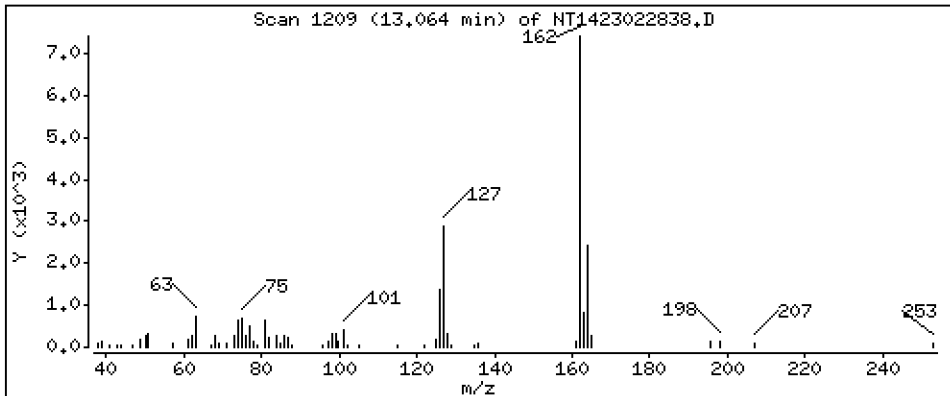
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

37 2-Chloronaphthalene

Concentration: 0,1970 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

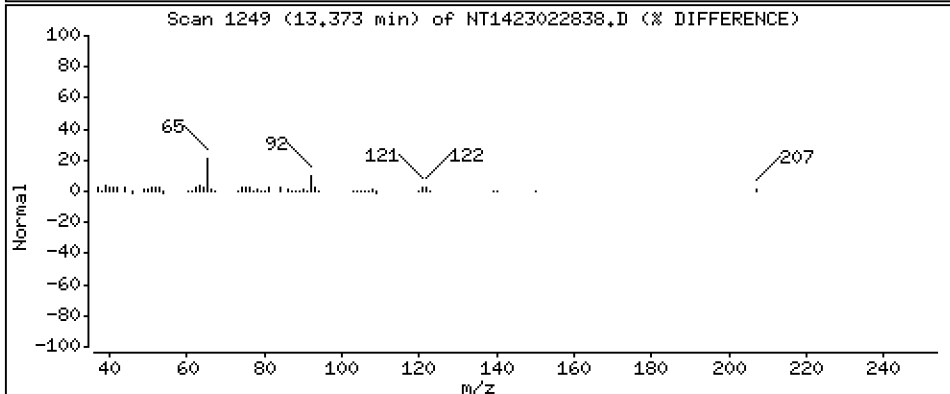
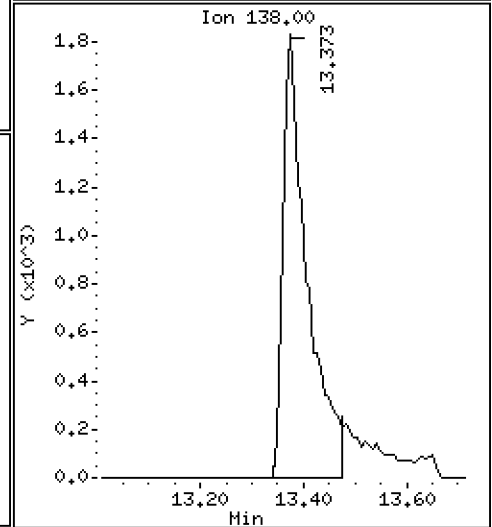
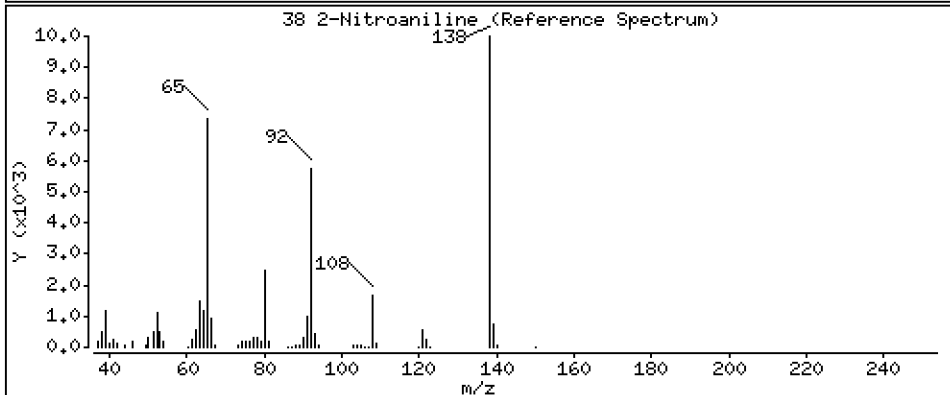
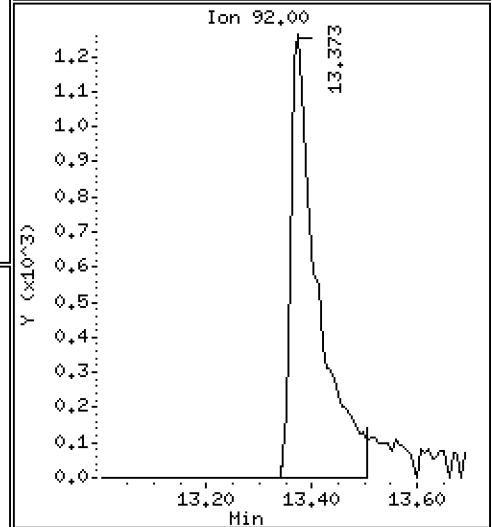
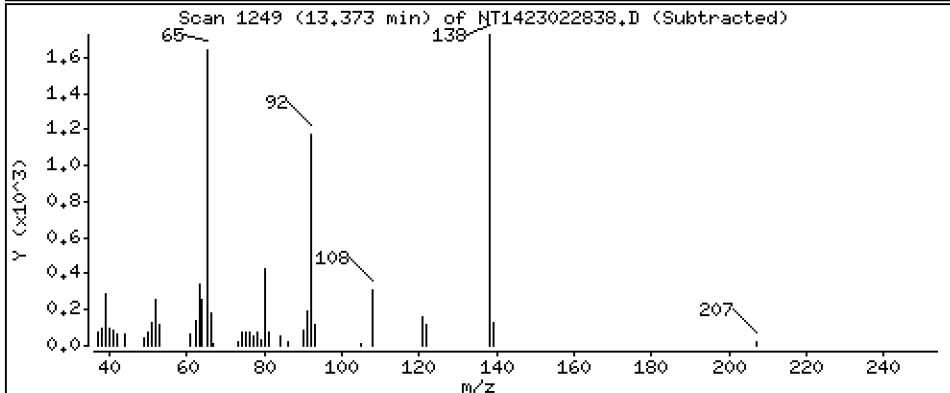
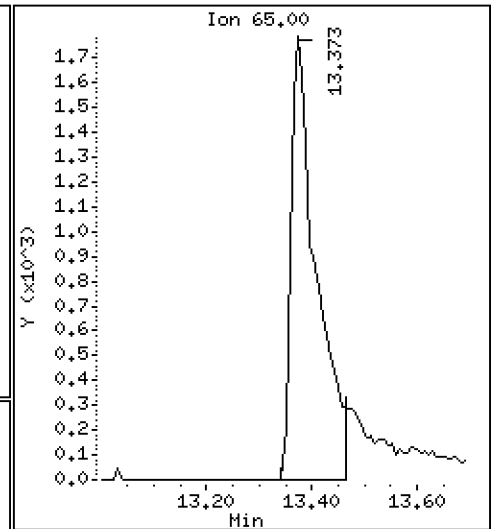
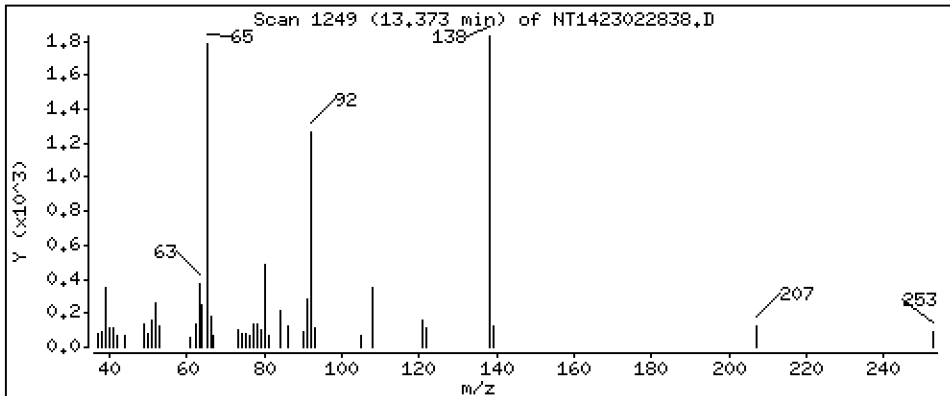
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

38 2-Nitroaniline

Concentration: 0,3308 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

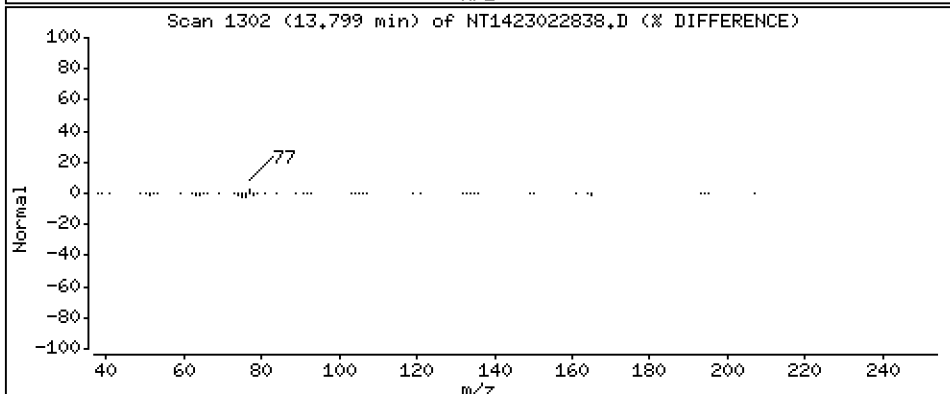
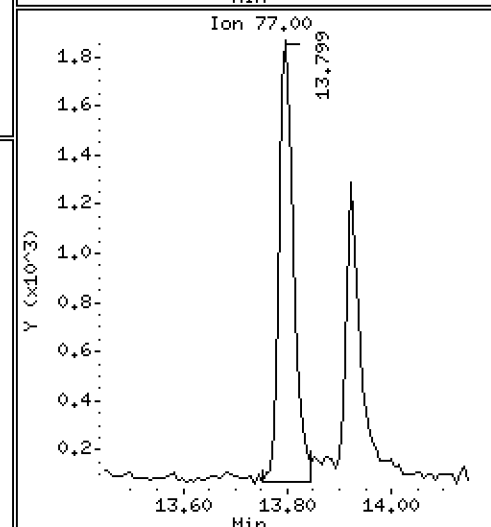
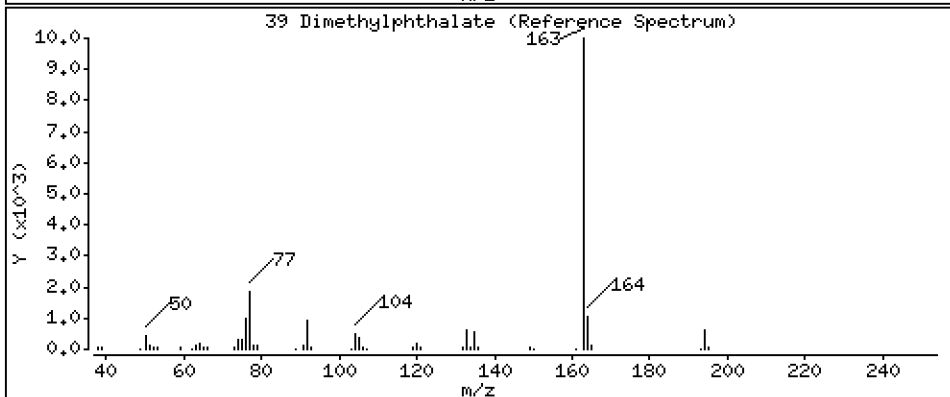
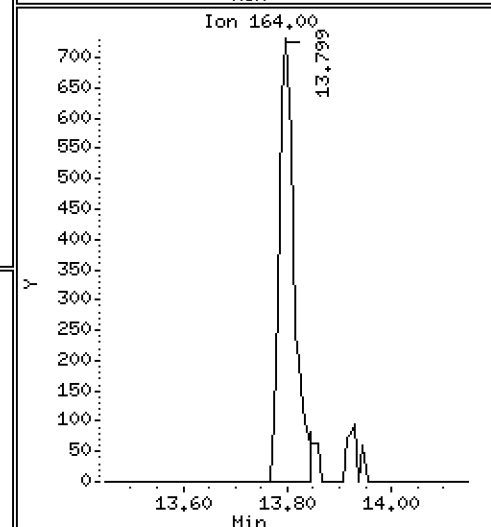
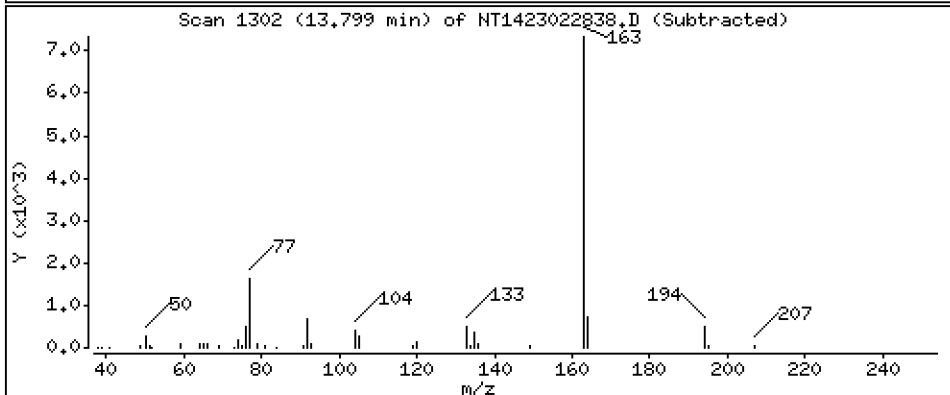
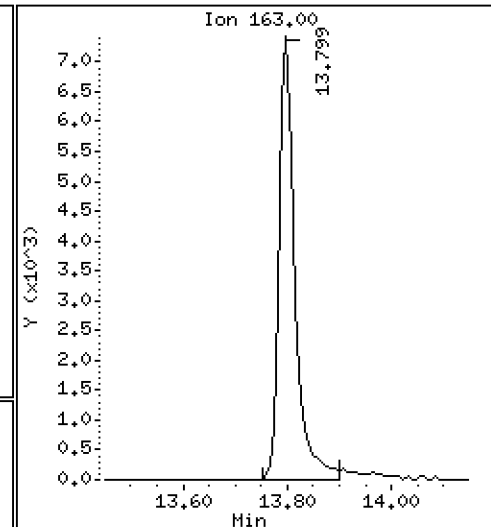
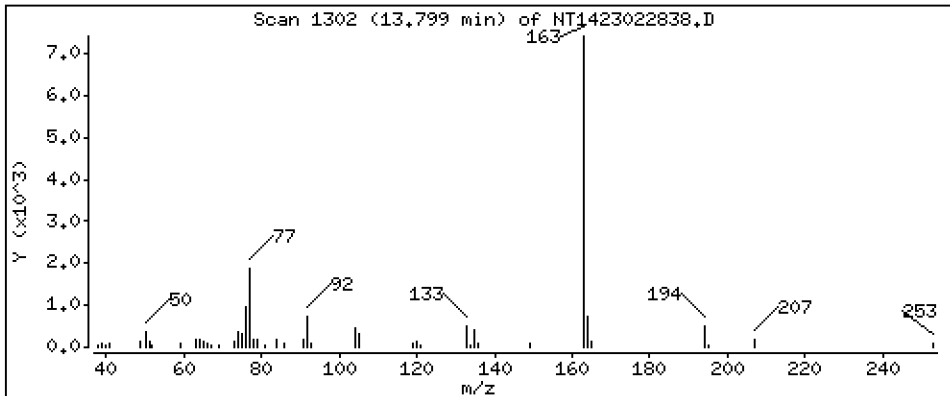
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 0,2095 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

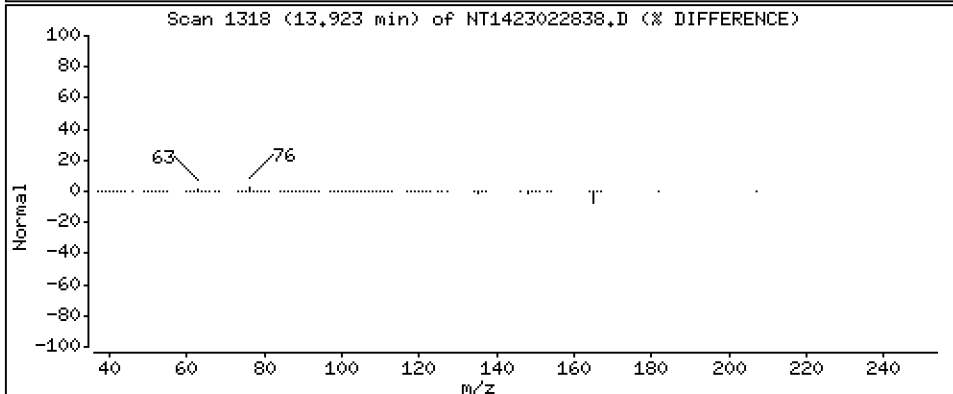
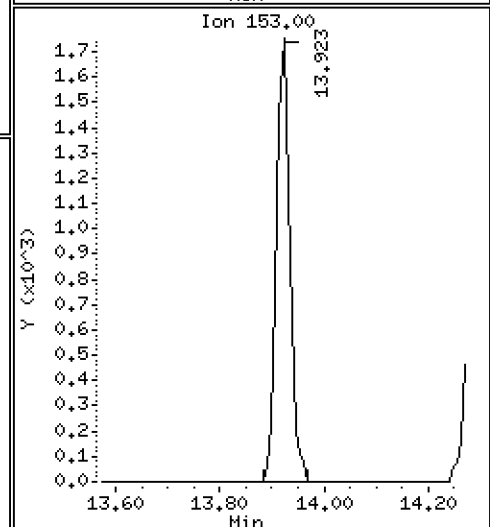
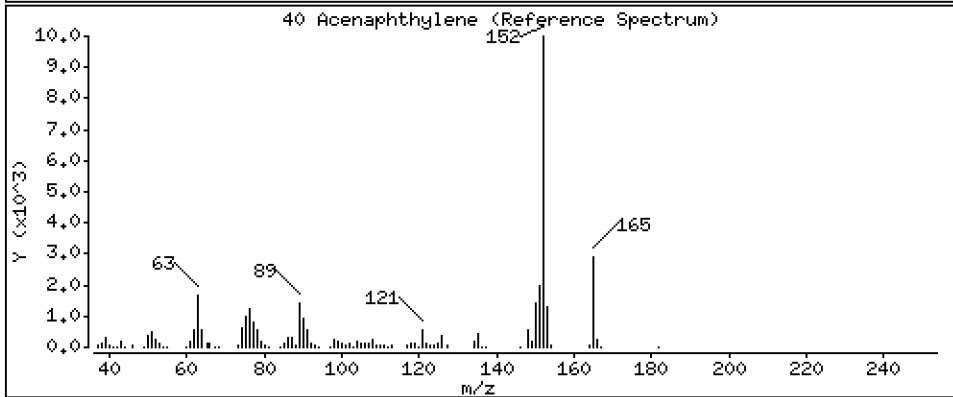
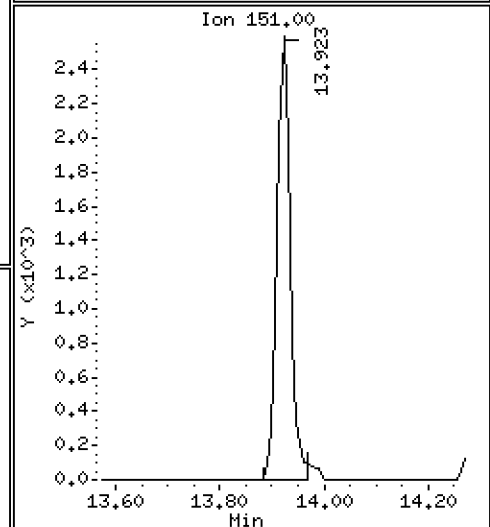
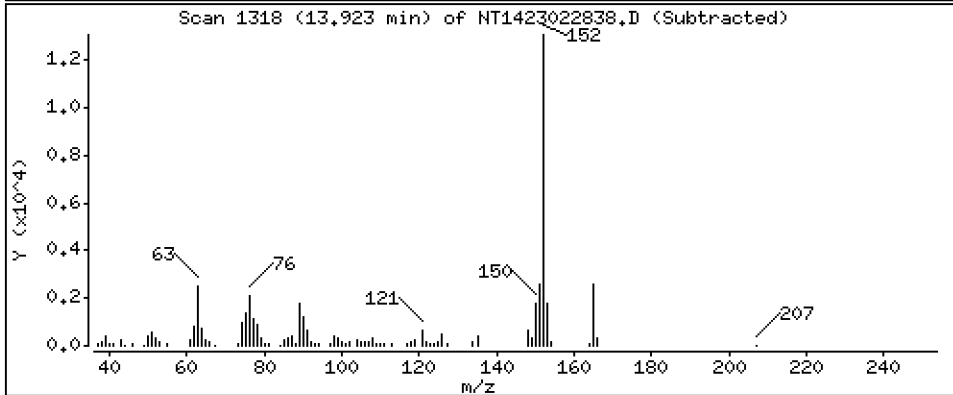
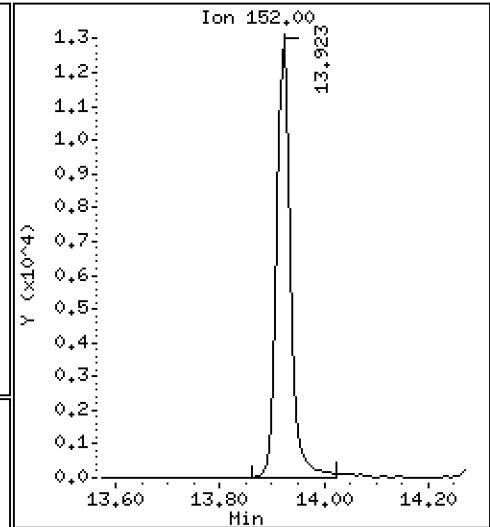
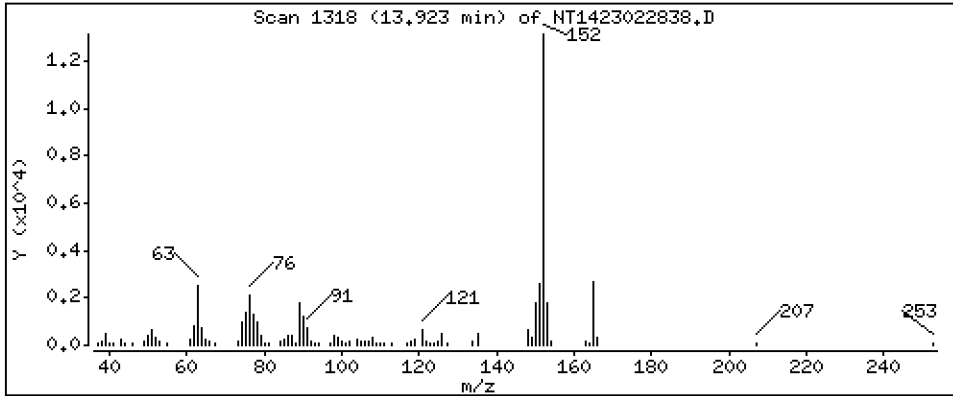
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 0,2206 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

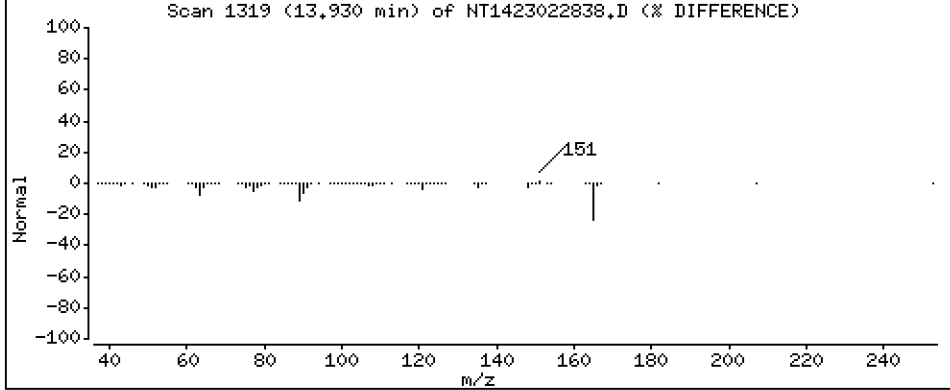
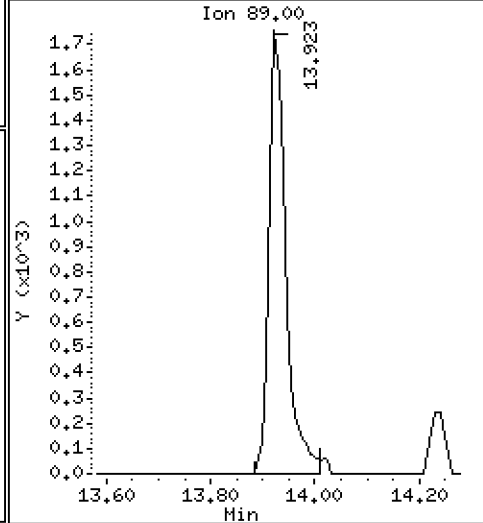
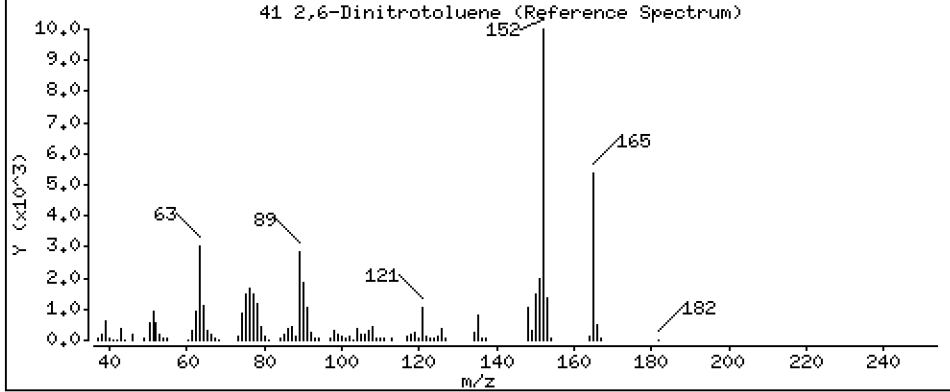
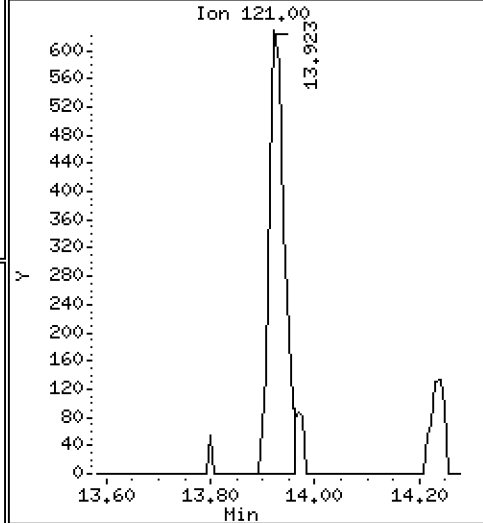
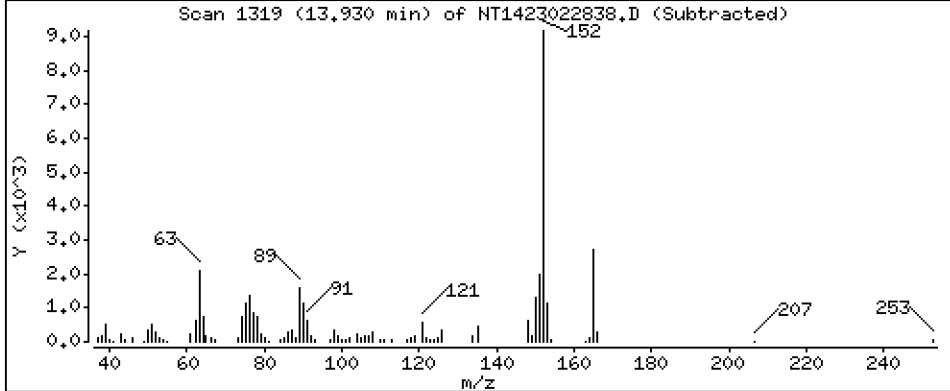
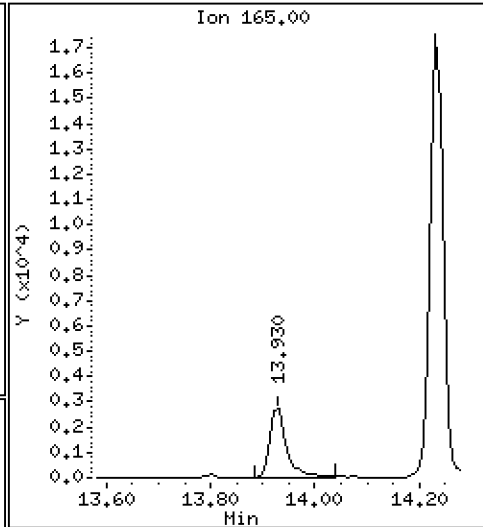
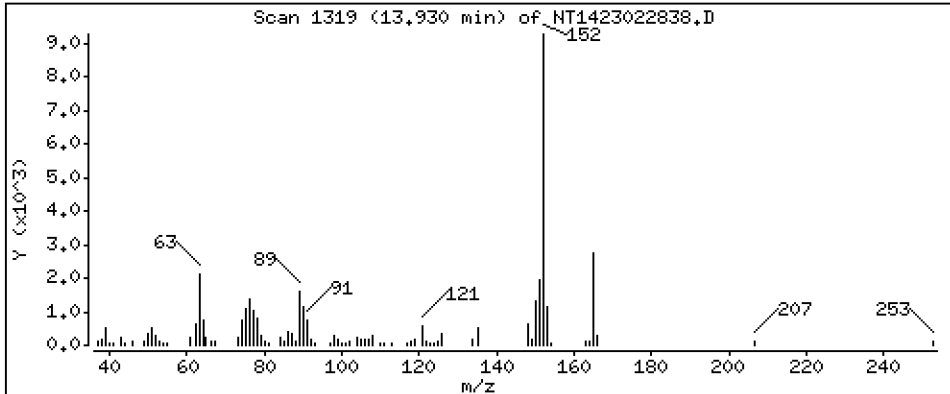
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

41 2,6-Dinitrotoluene

Concentration: 0.3629 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

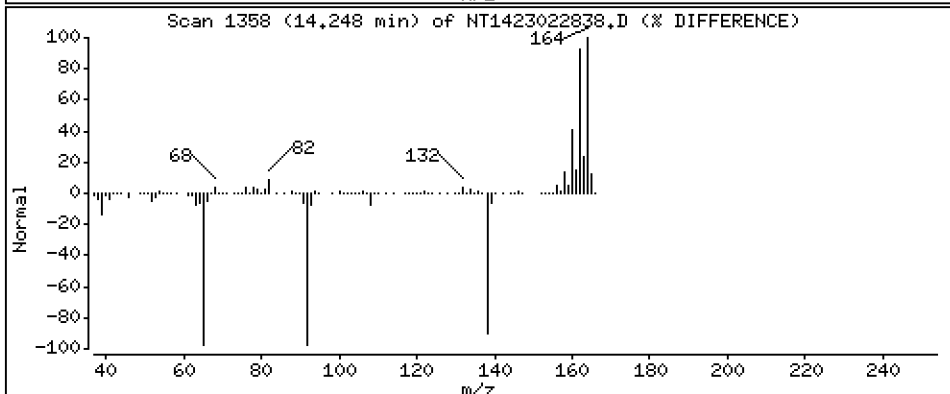
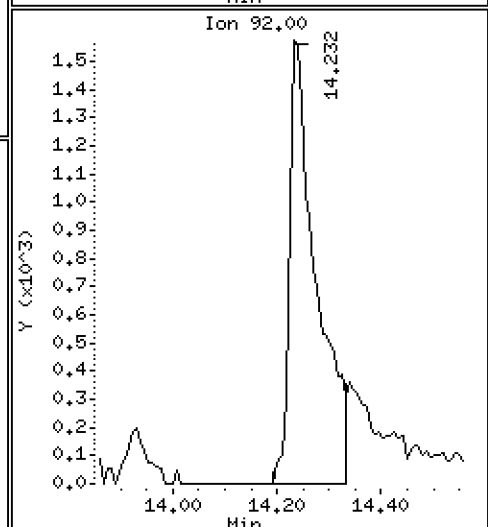
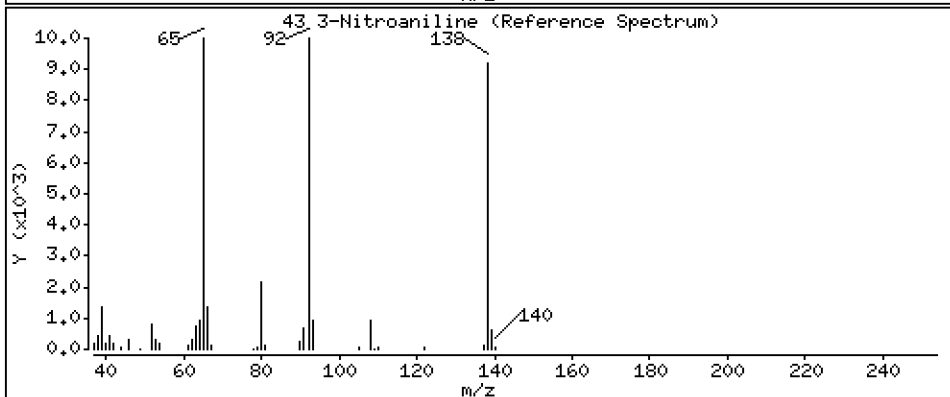
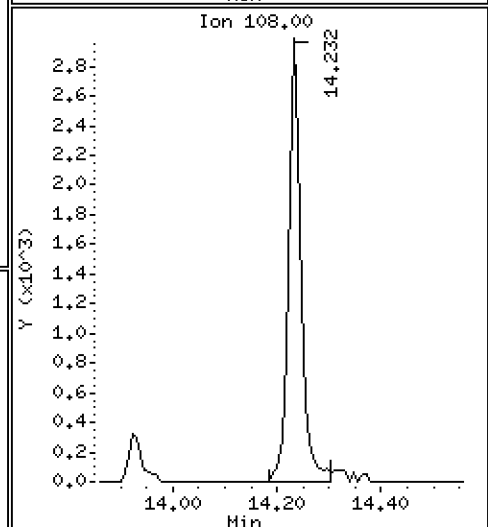
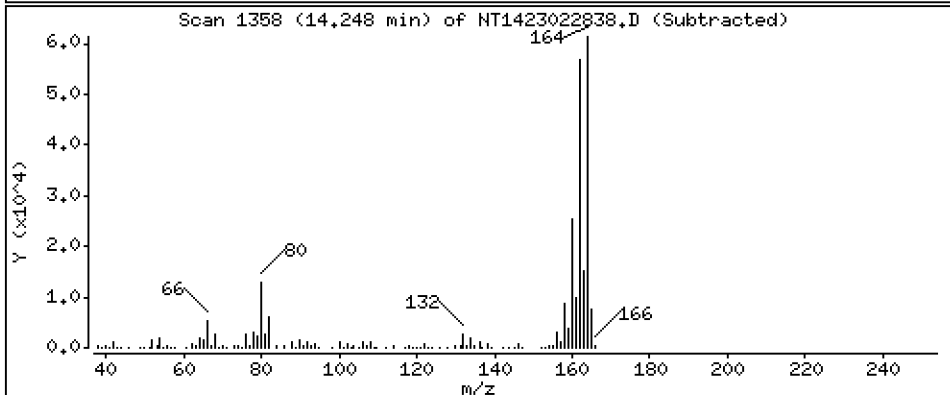
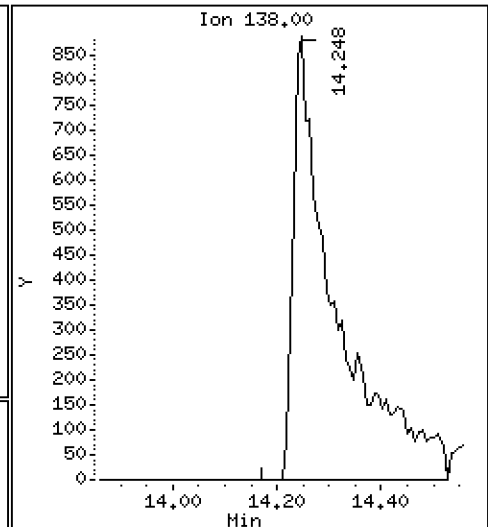
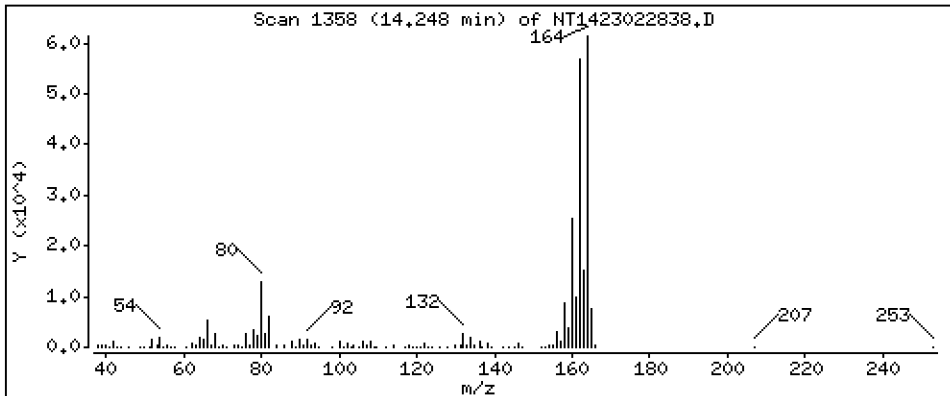
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

43 3-Nitroaniline

Concentration: 0,2929 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

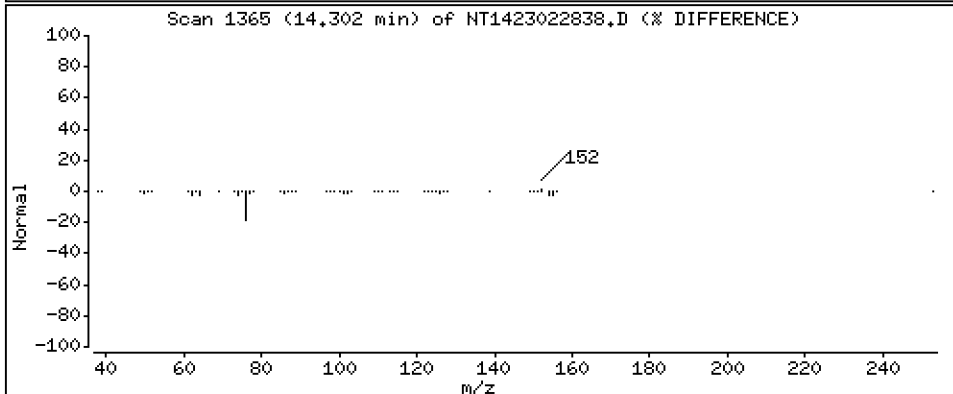
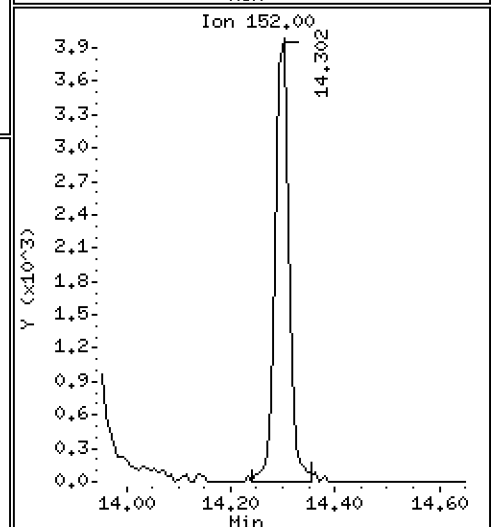
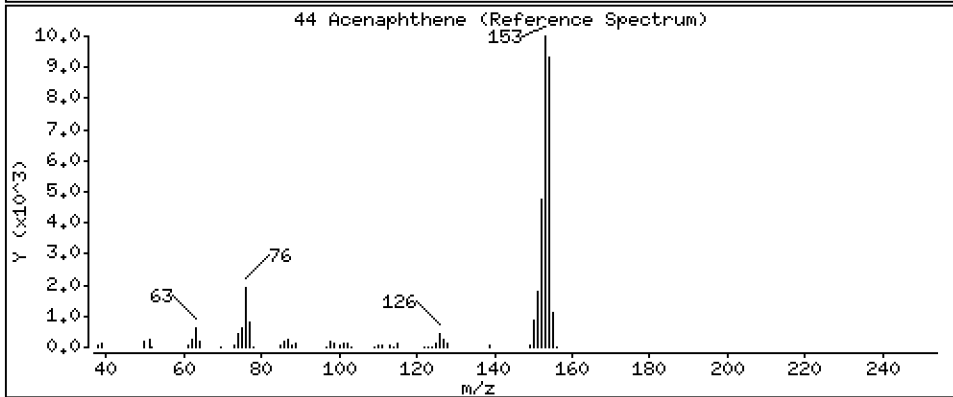
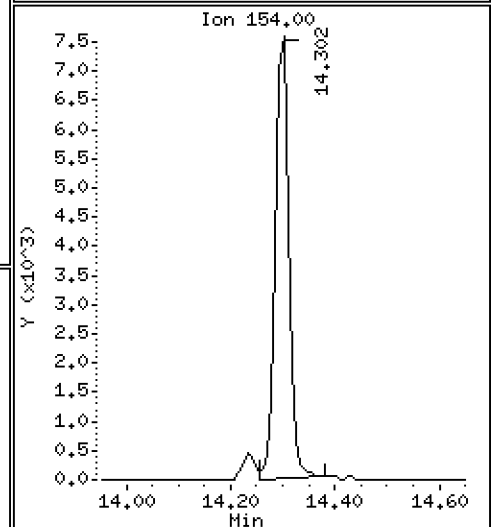
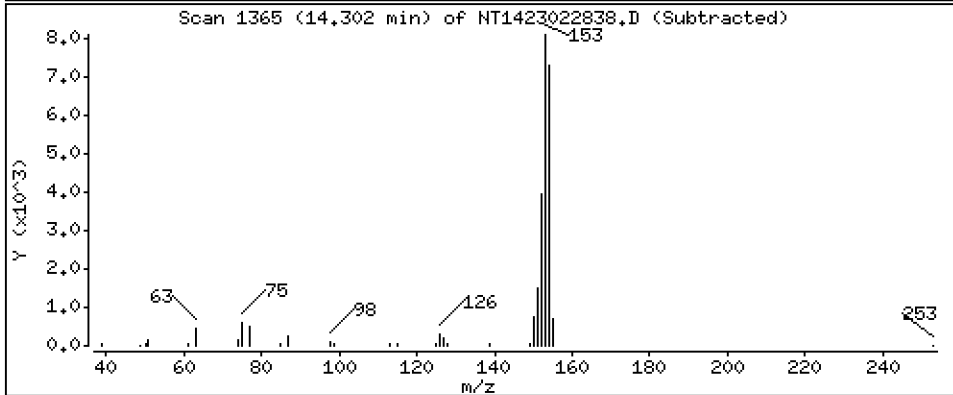
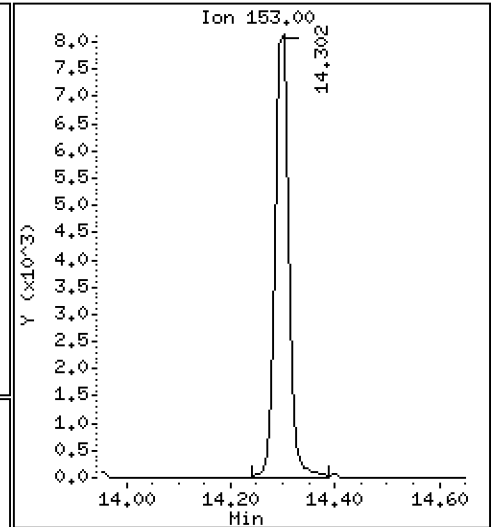
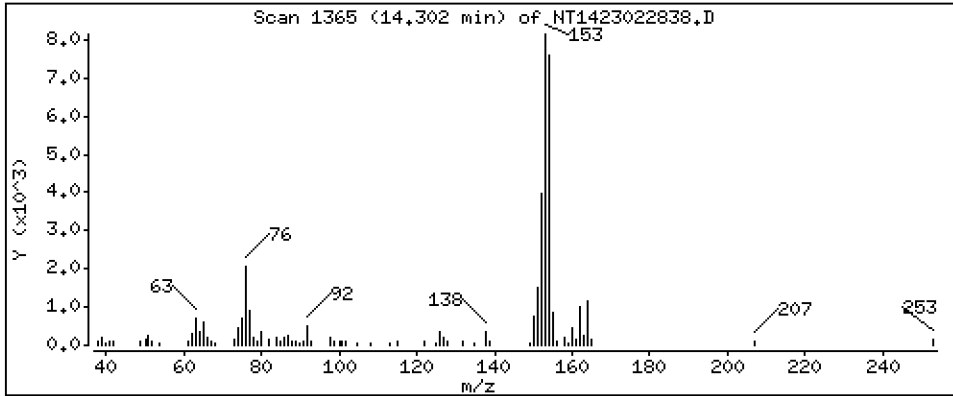
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 0,2124 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

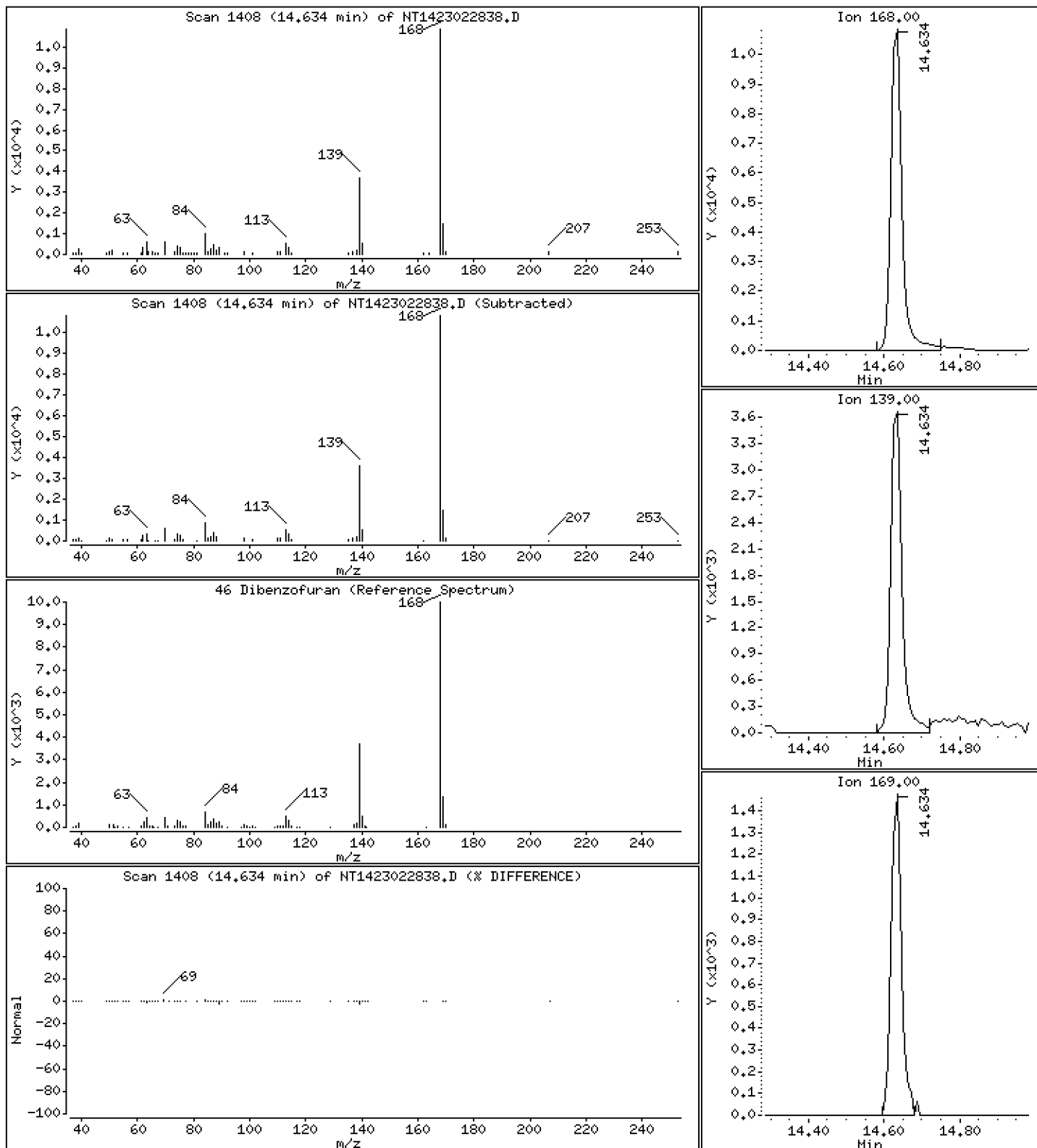
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 0,1981 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

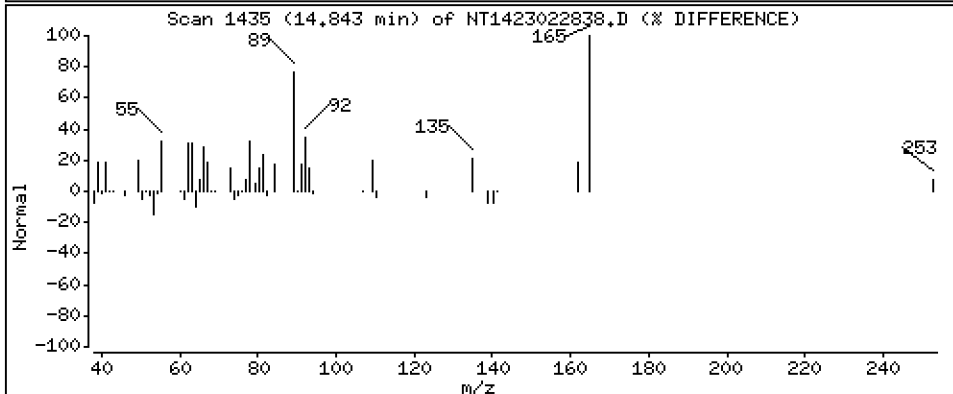
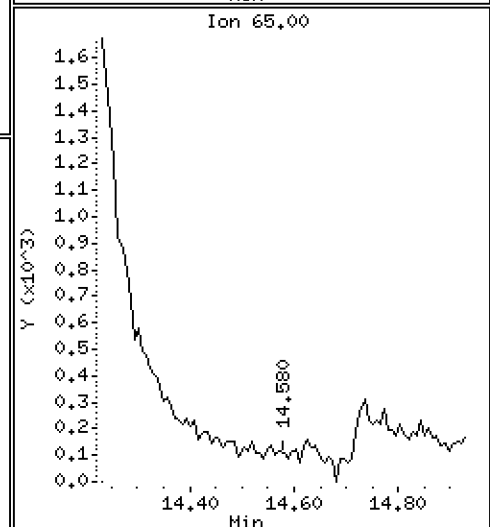
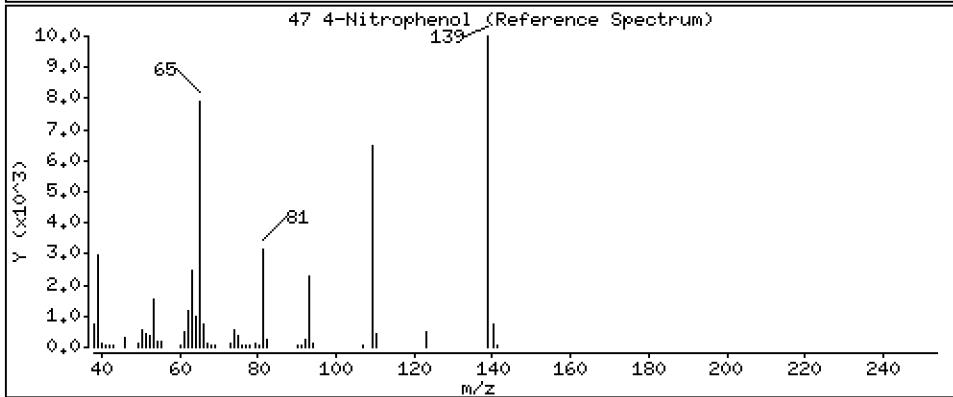
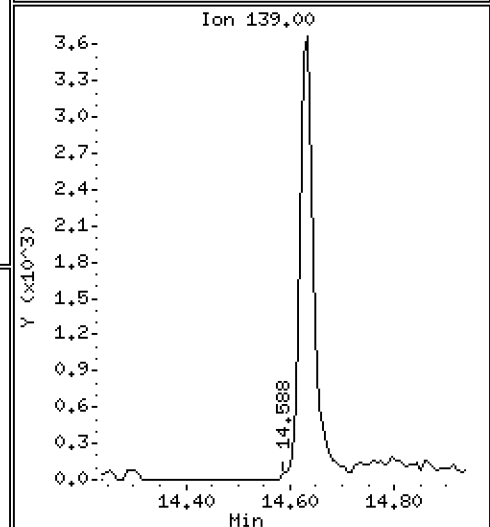
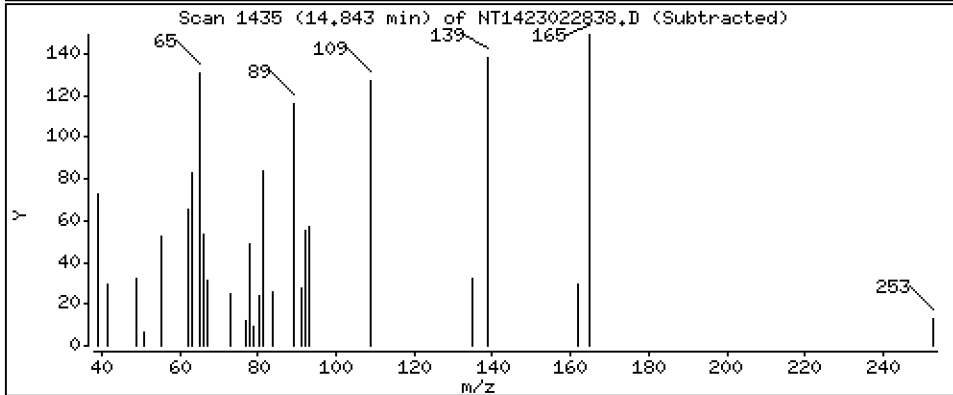
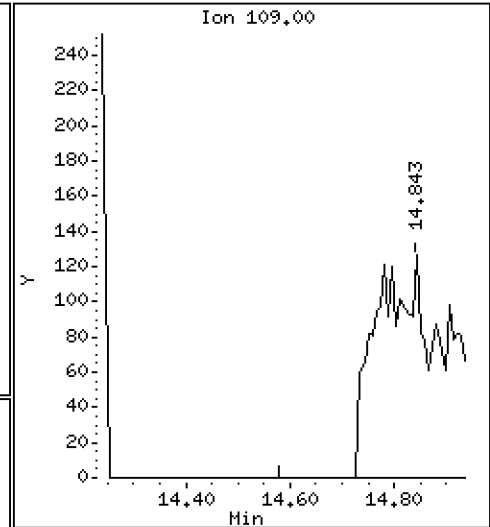
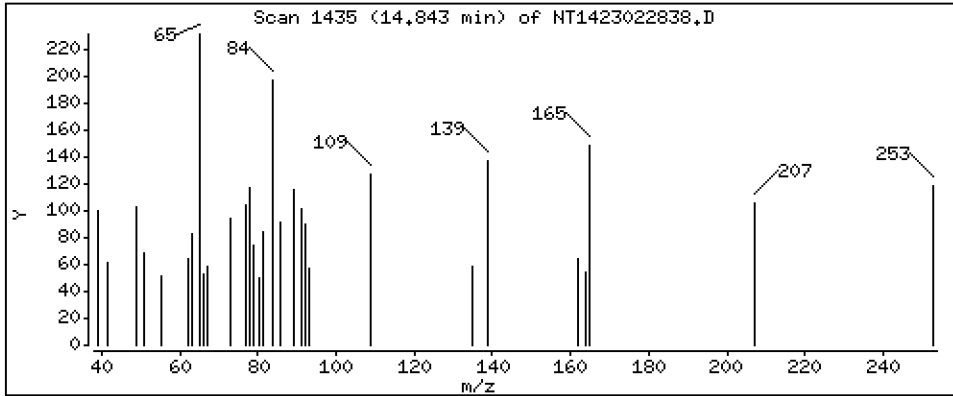
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

47 4-Nitrophenol

Concentration: 0.2077 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

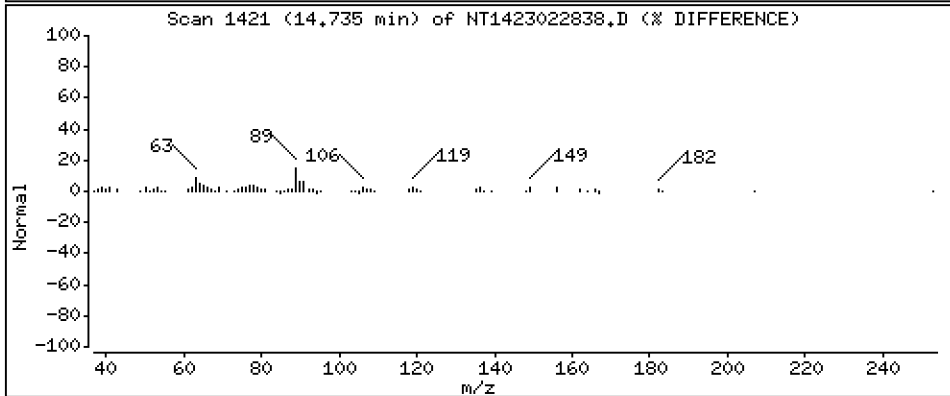
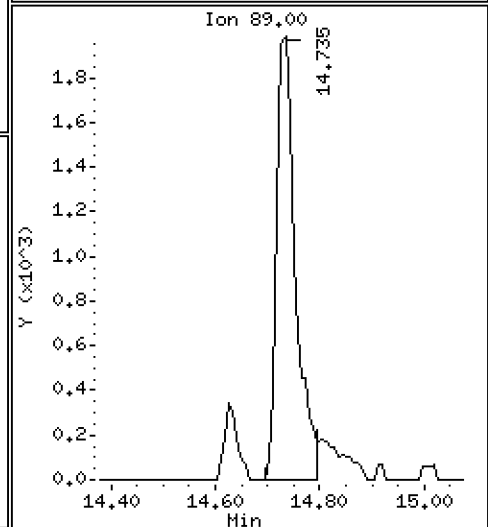
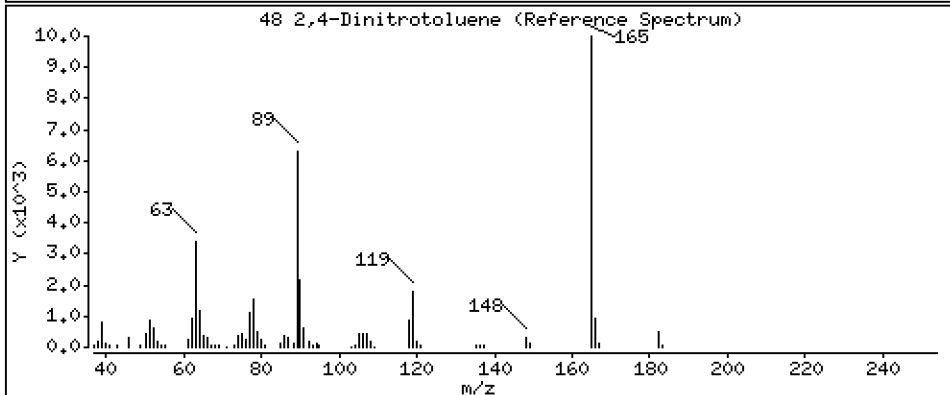
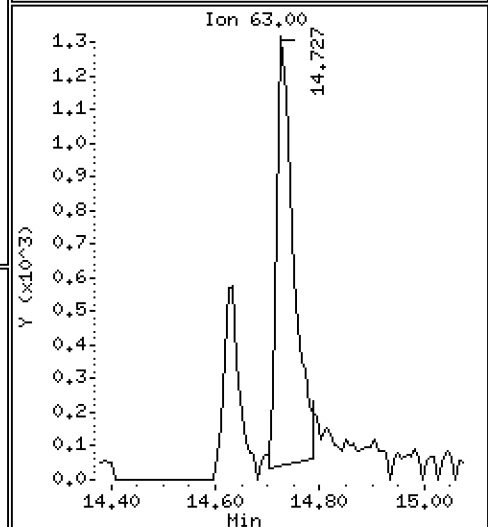
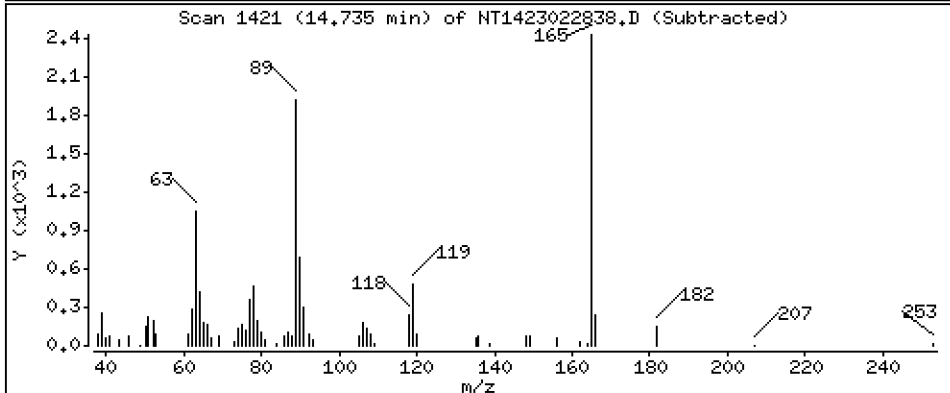
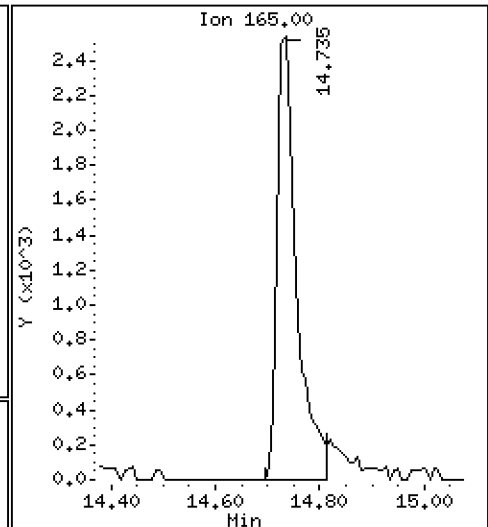
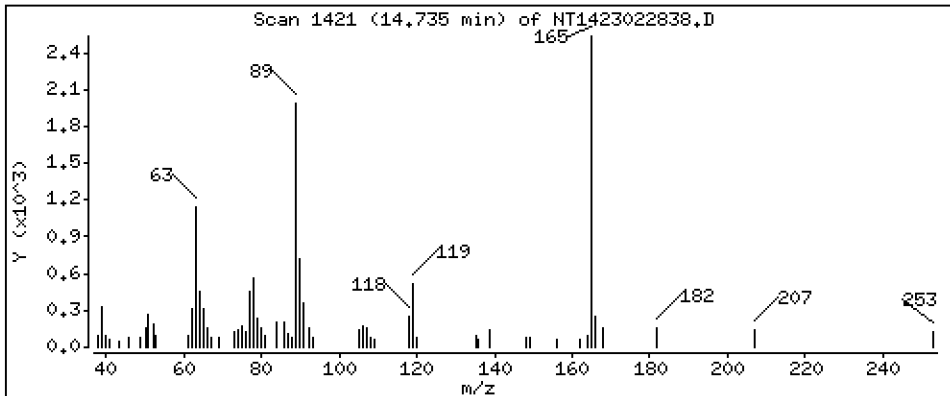
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

48 2,4-Dinitrotoluene

Concentration: 0.2661 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

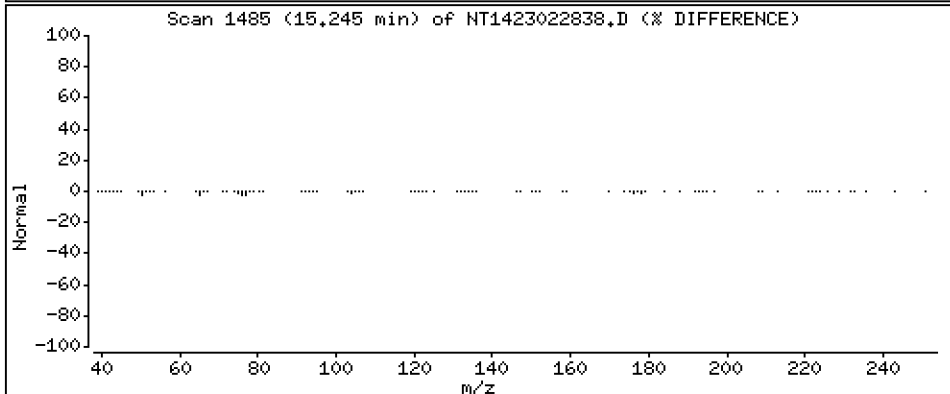
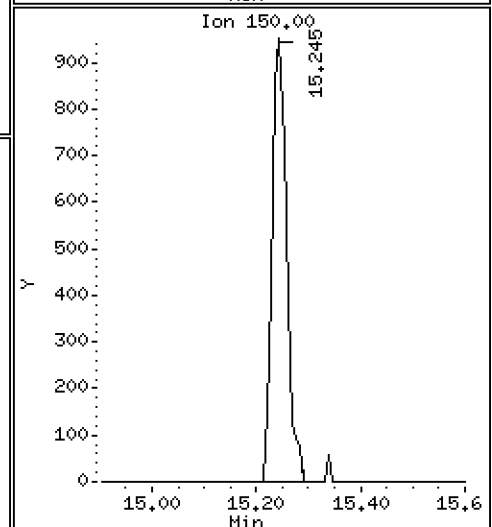
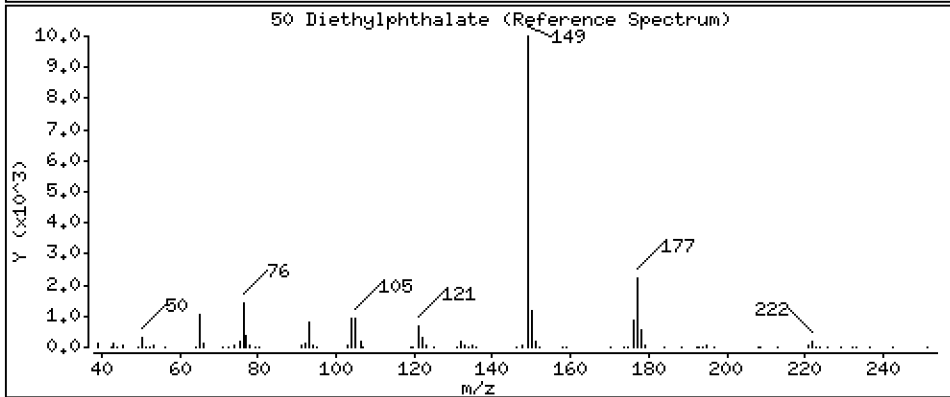
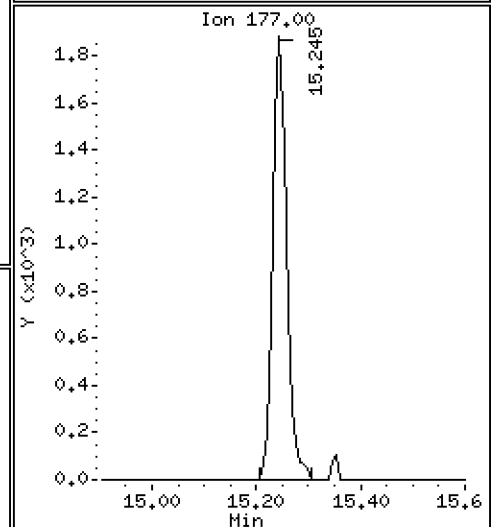
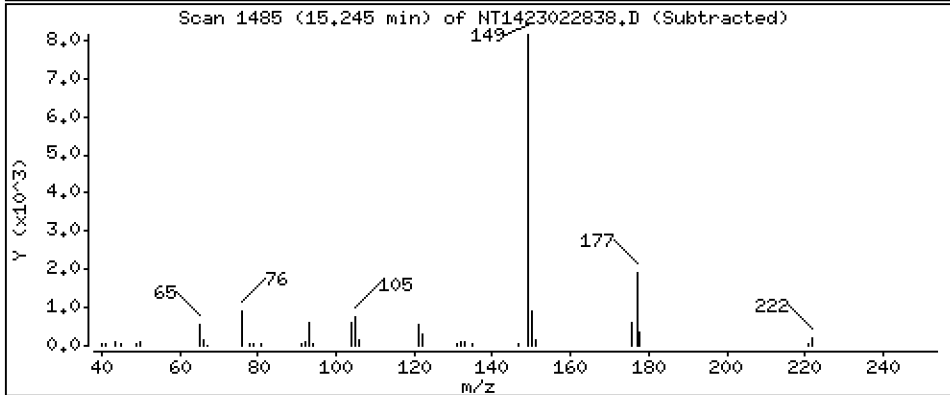
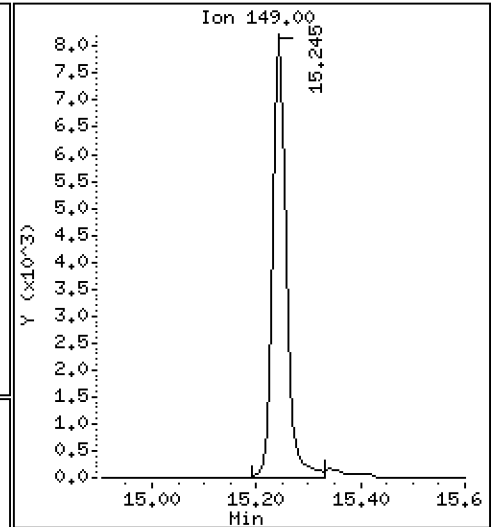
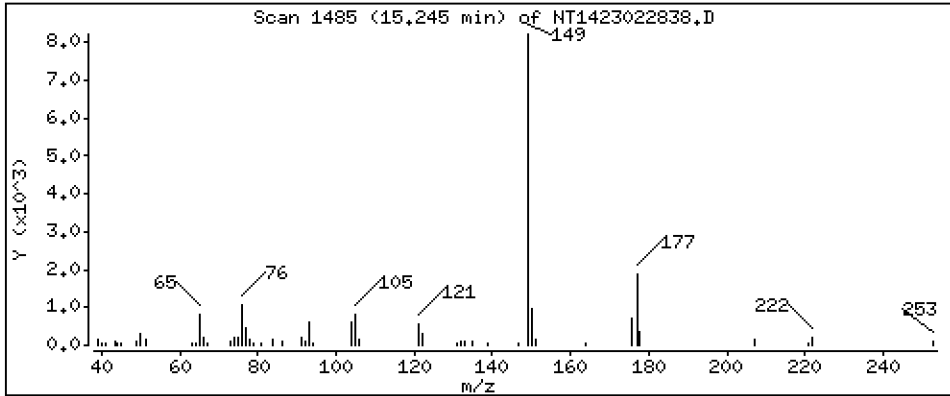
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 0,2122 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

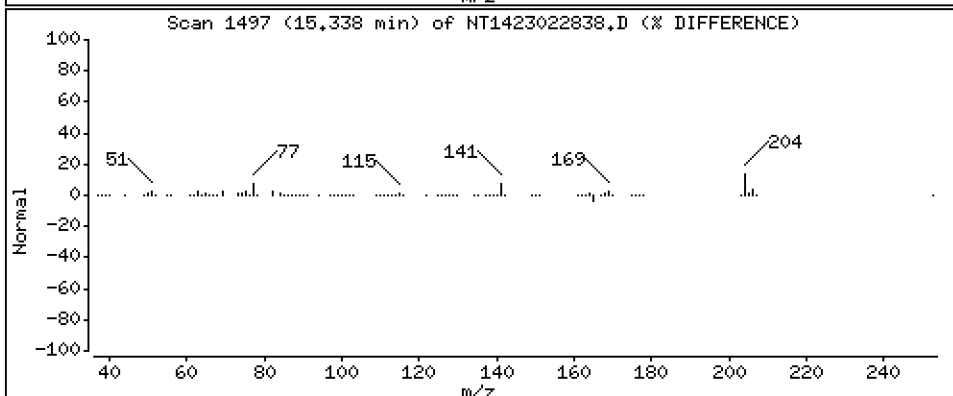
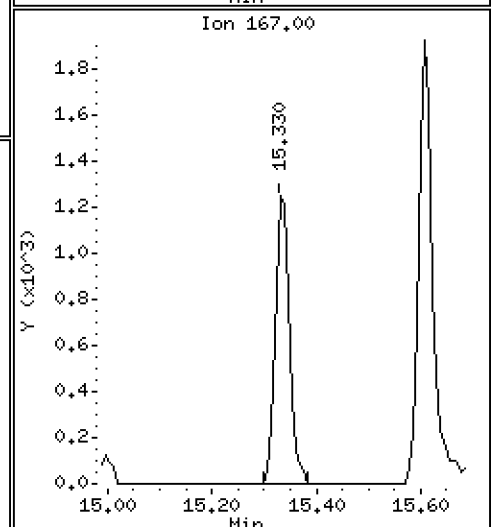
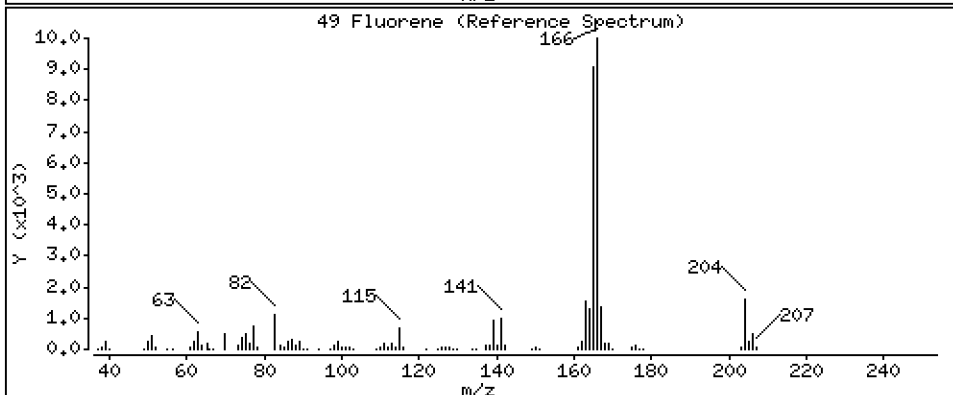
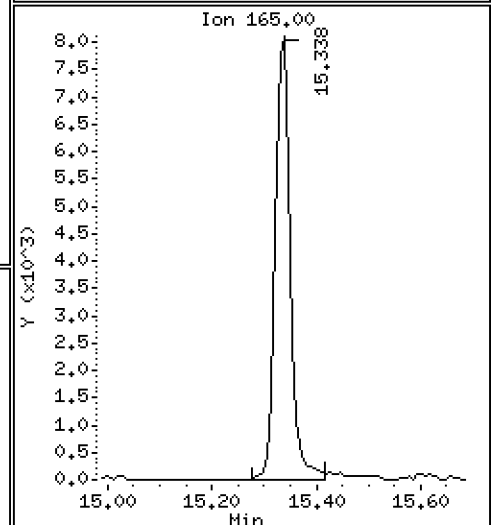
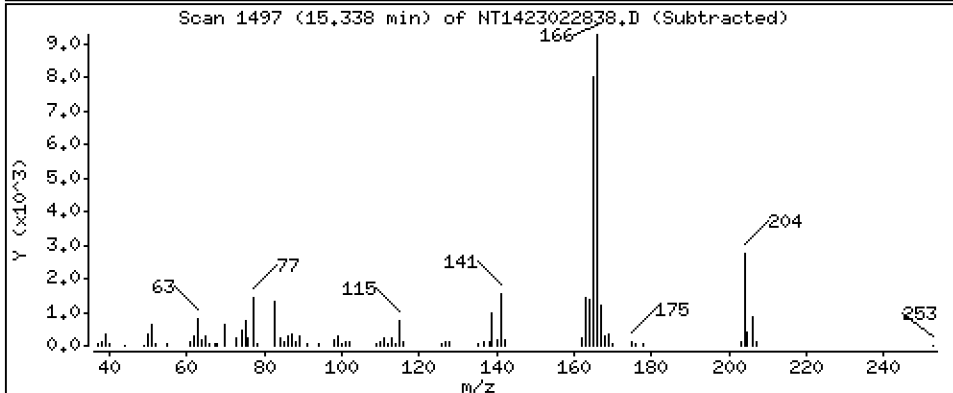
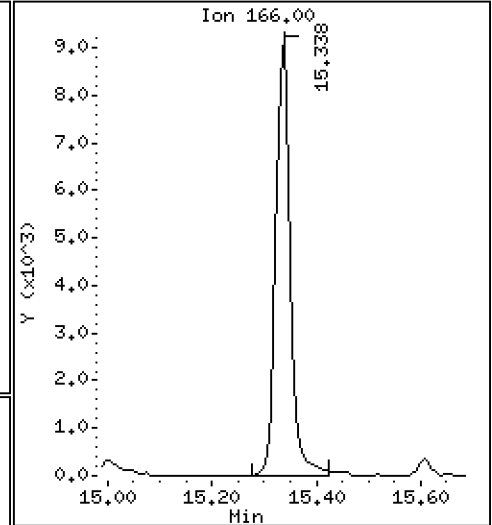
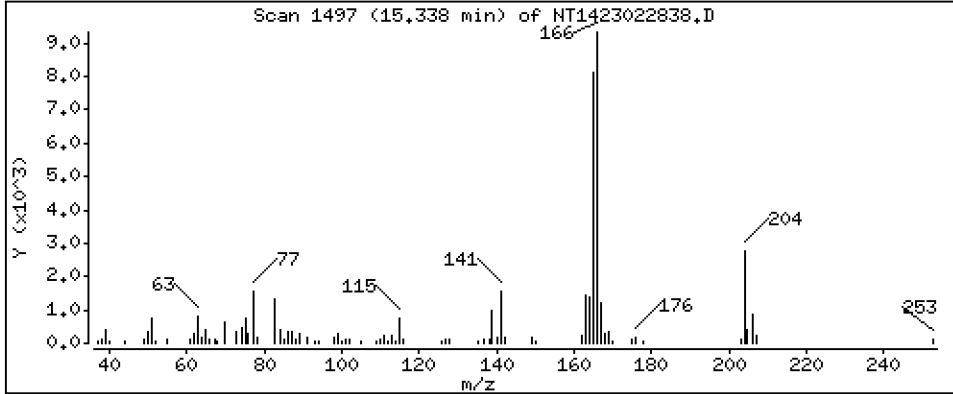
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 0,2128 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

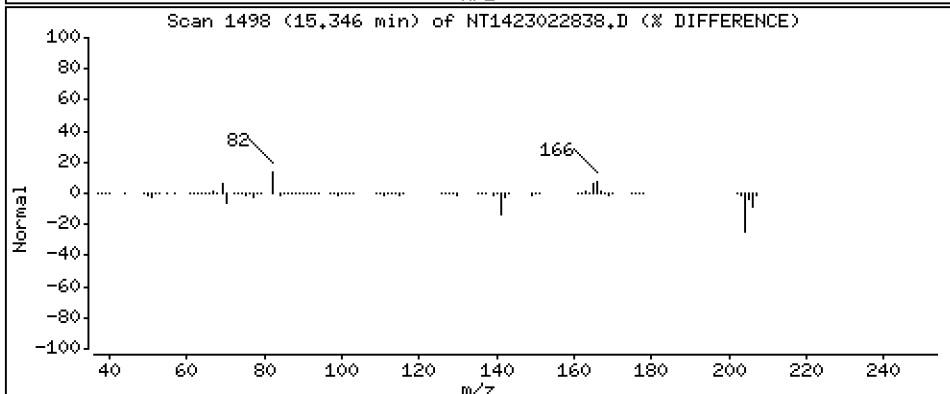
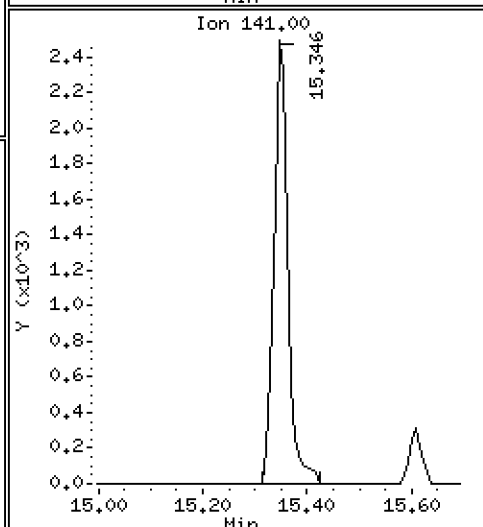
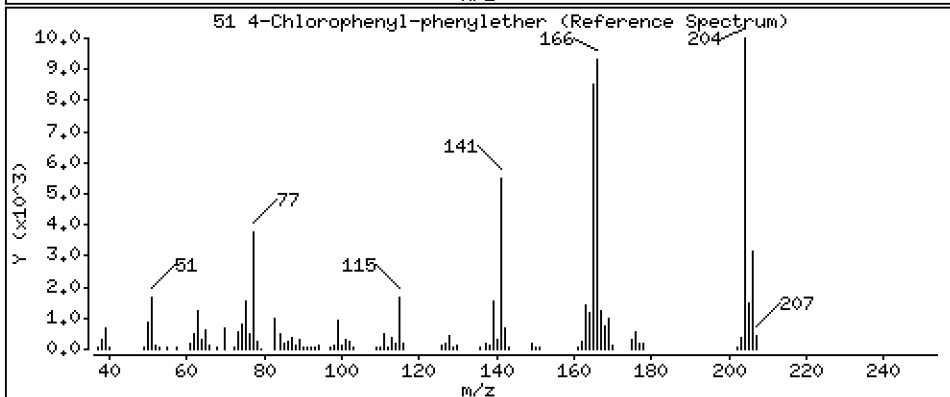
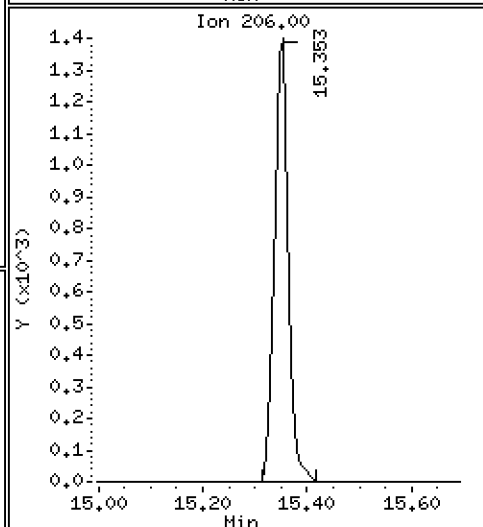
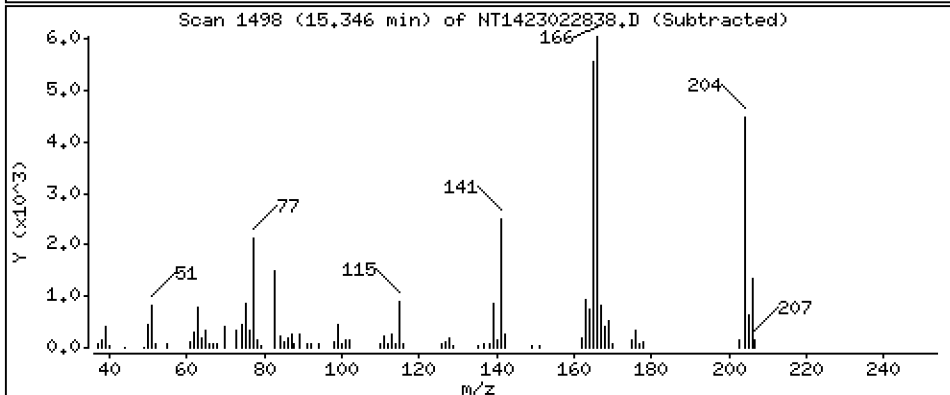
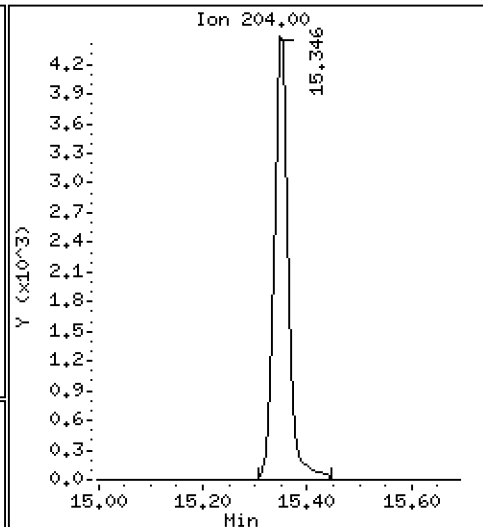
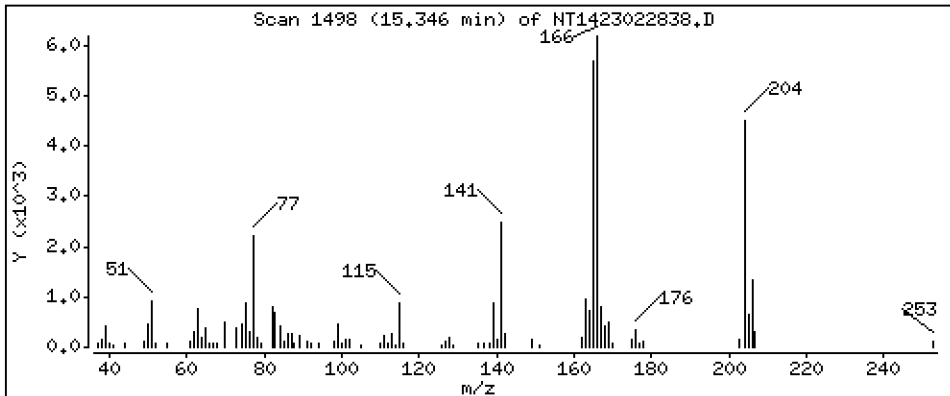
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 0,1967 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

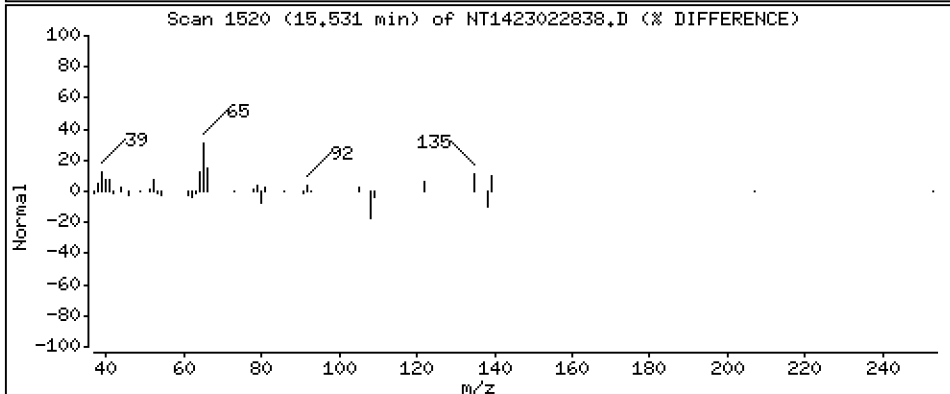
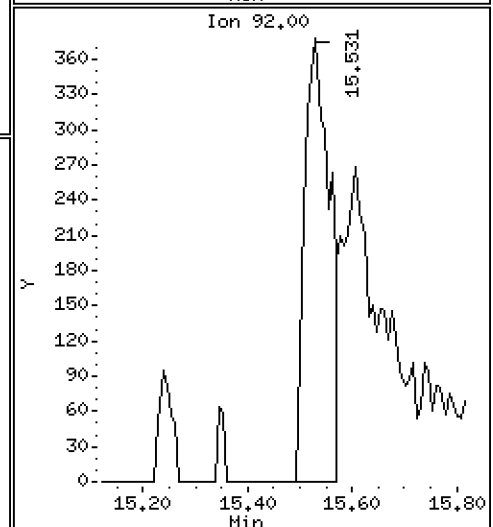
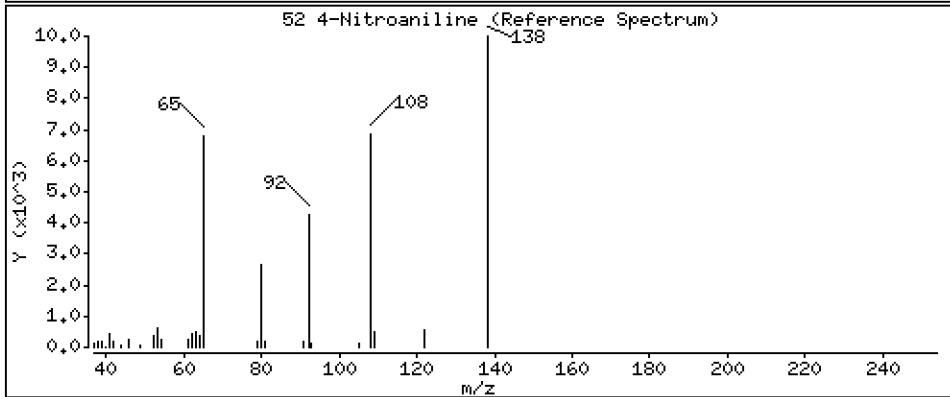
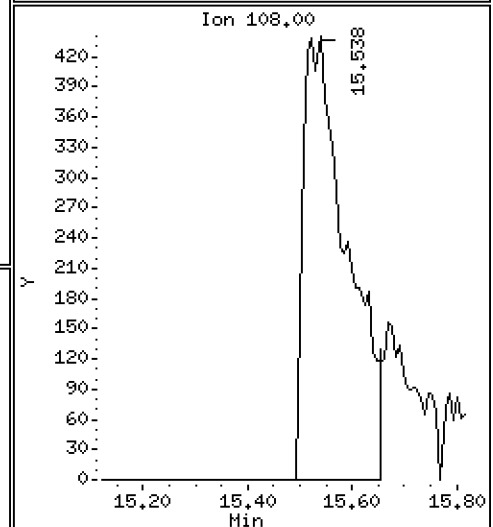
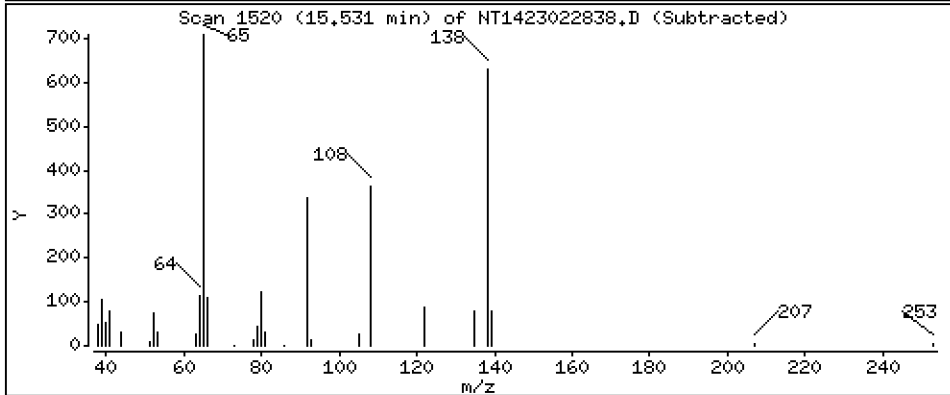
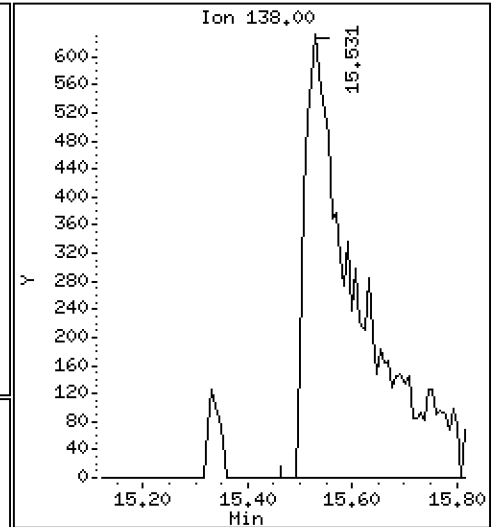
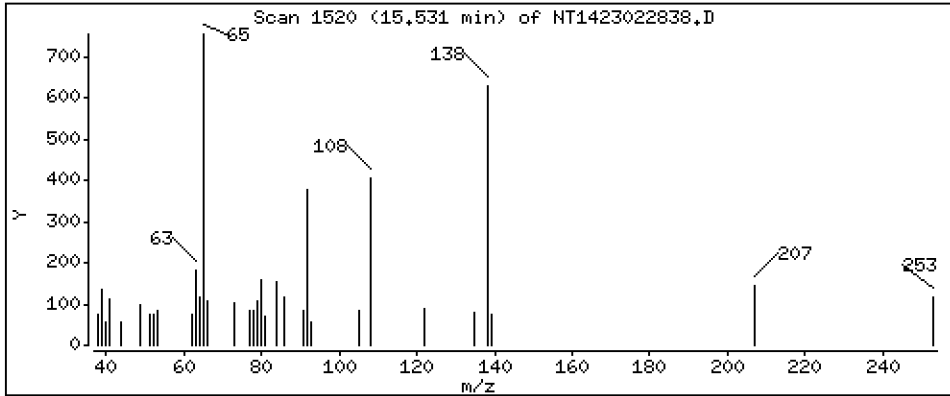
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

52 4-Nitroaniline

Concentration: 0,2698 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

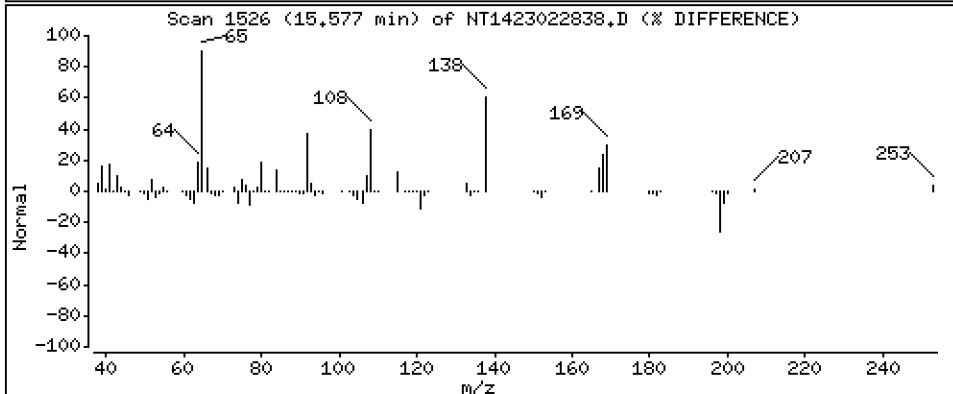
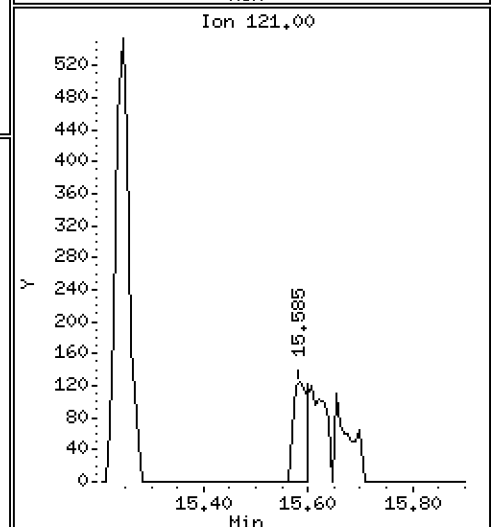
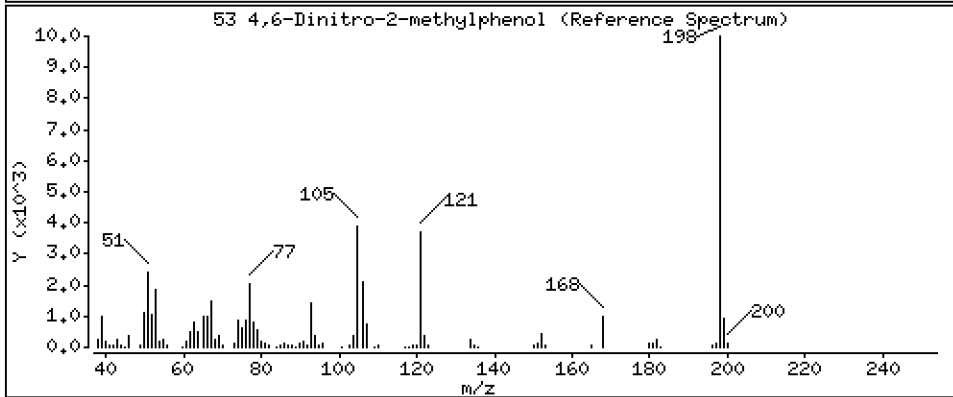
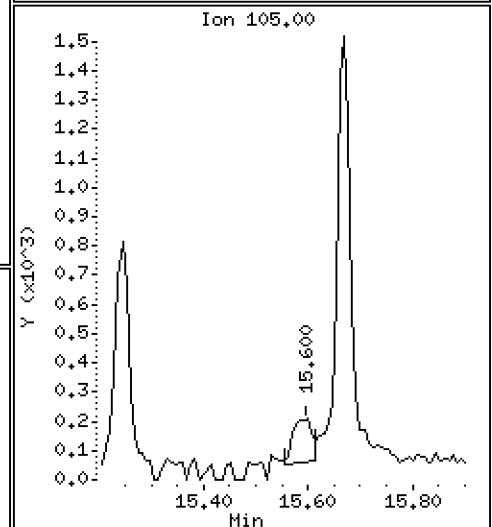
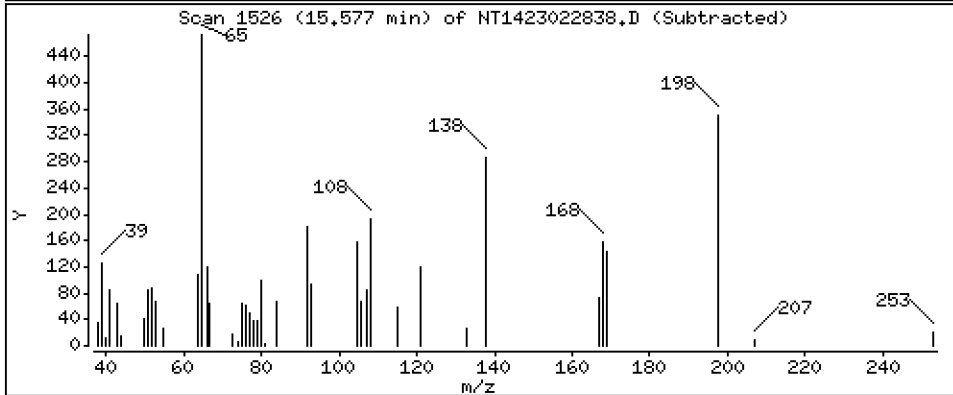
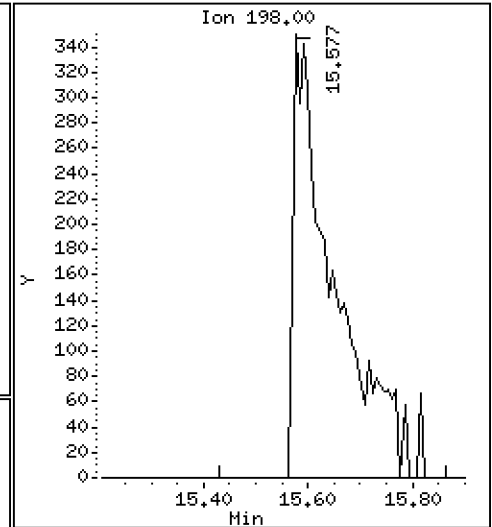
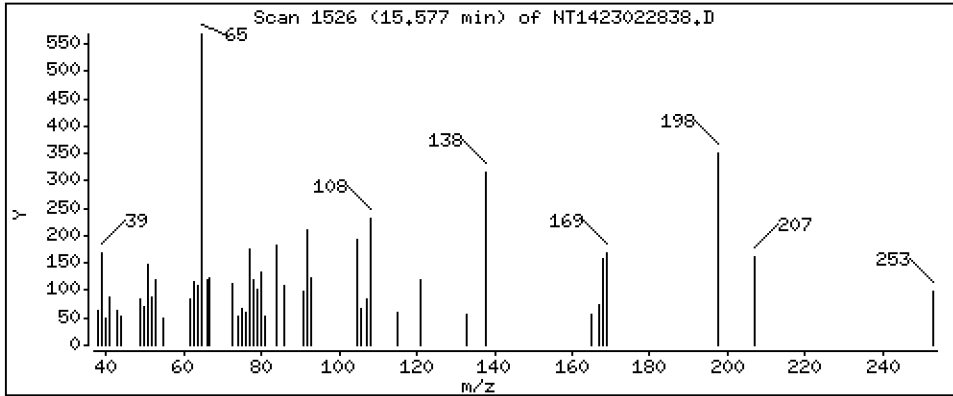
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

53 4,6-Dinitro-2-methylphenol

Concentration: 0,1394 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

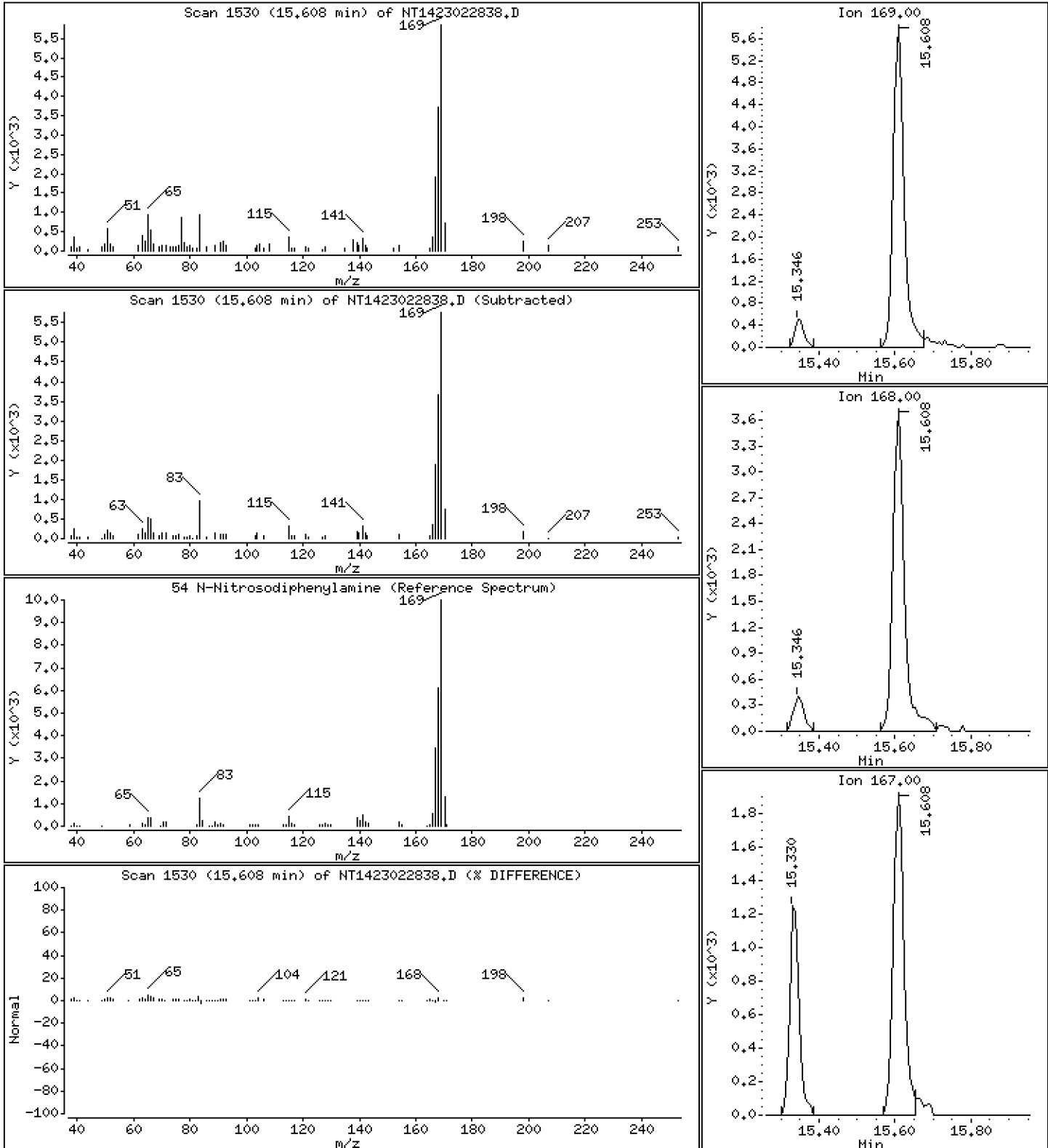
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

54 N-Nitrosodiphenylamine

Concentration: 0,2107 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

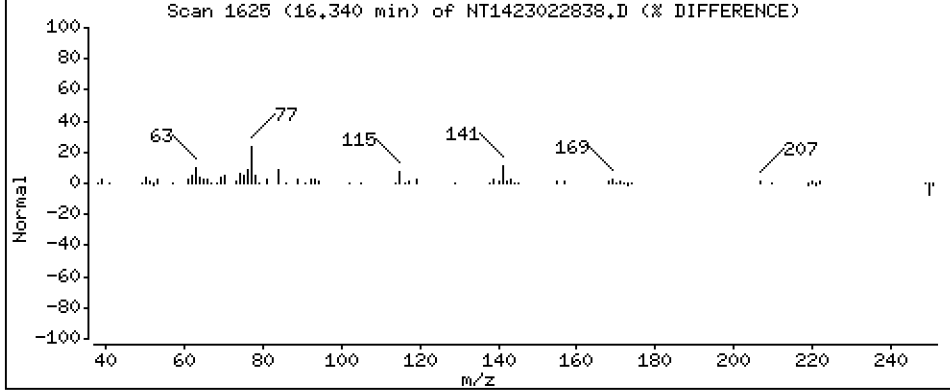
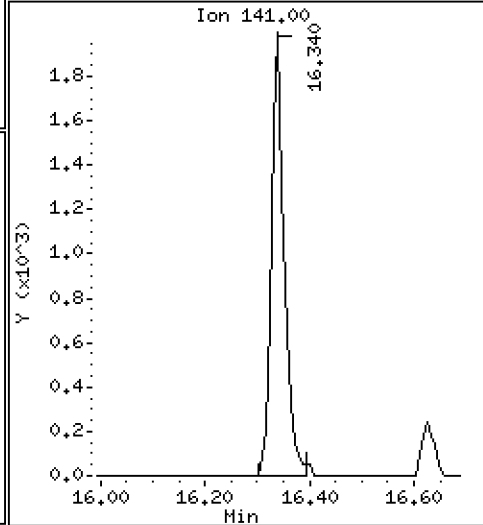
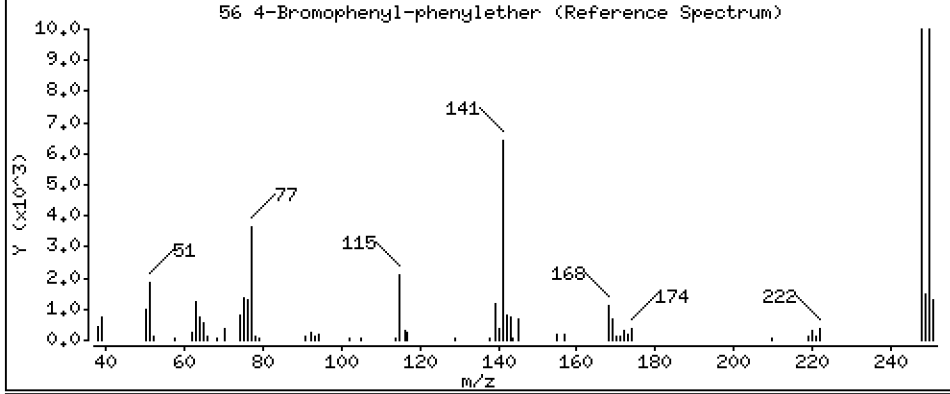
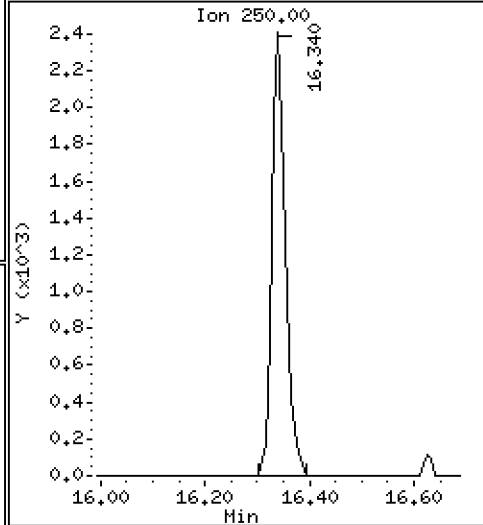
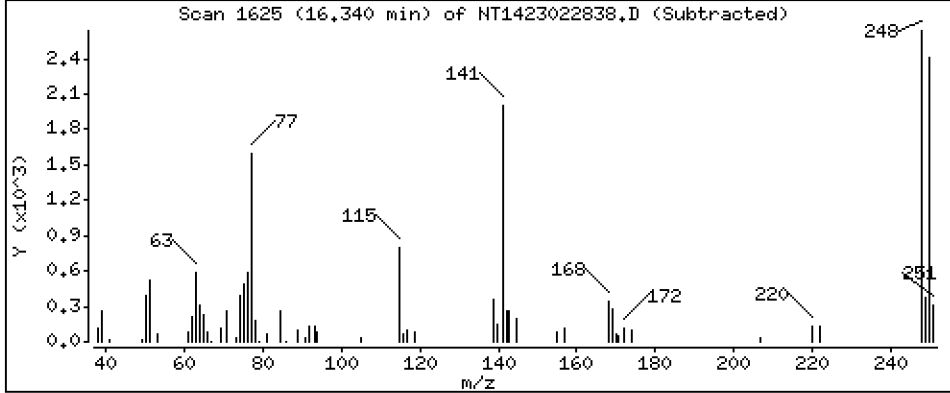
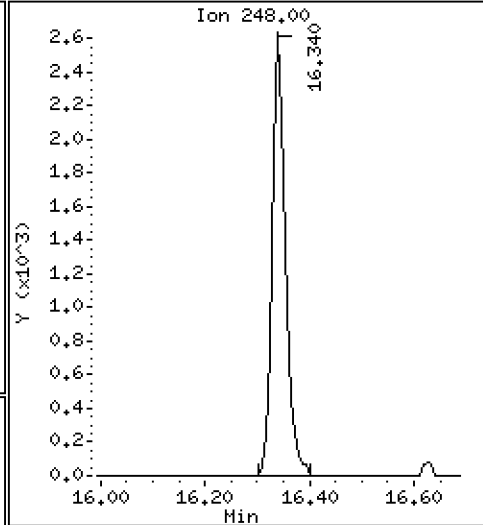
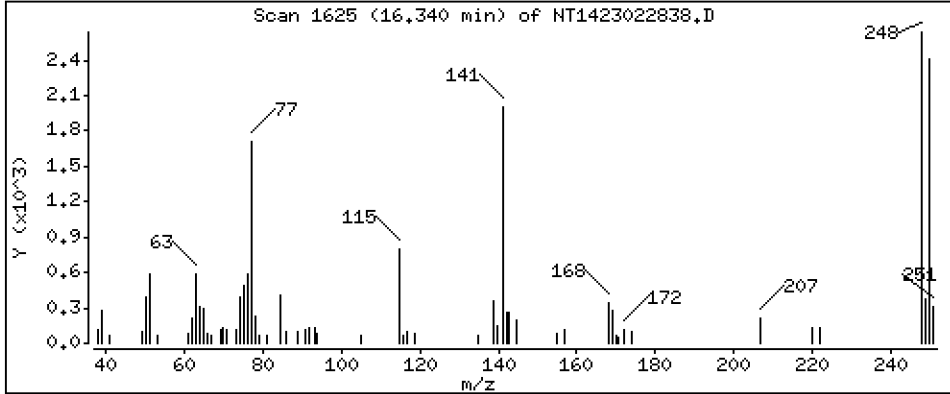
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 0,1947 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

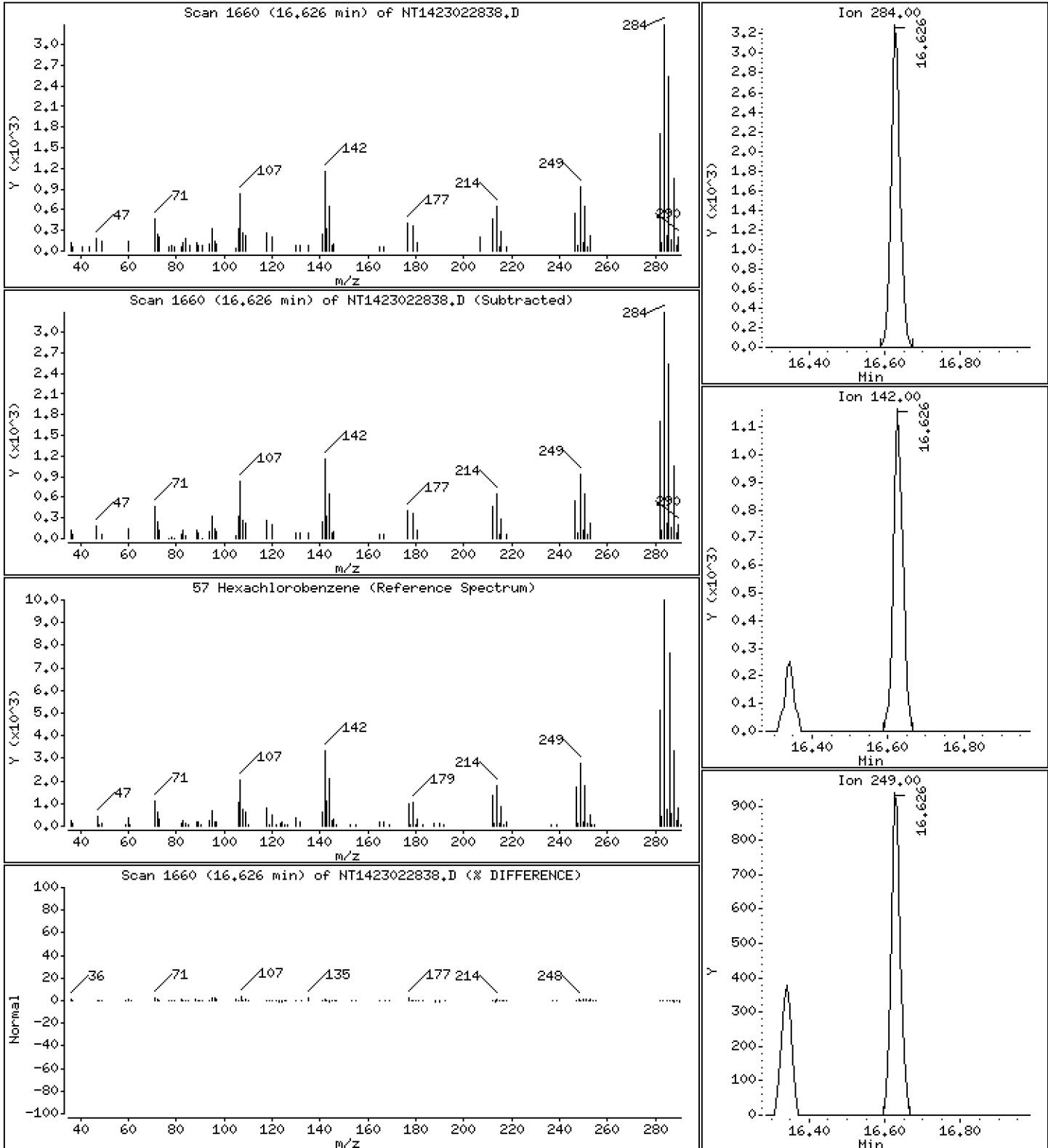
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

57 Hexachlorobenzene

Concentration: 0.2130 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

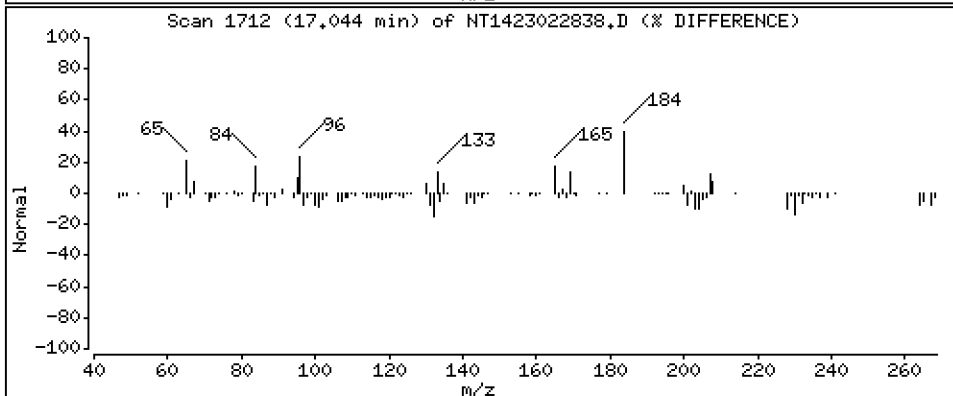
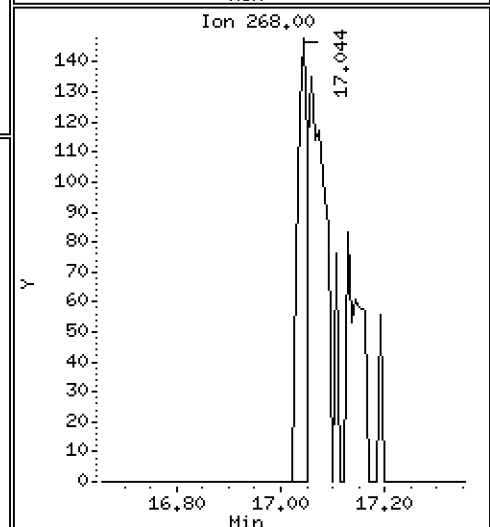
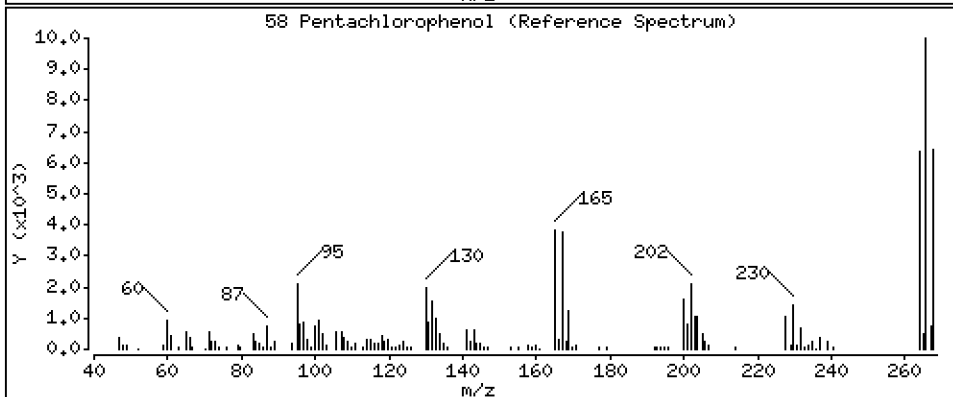
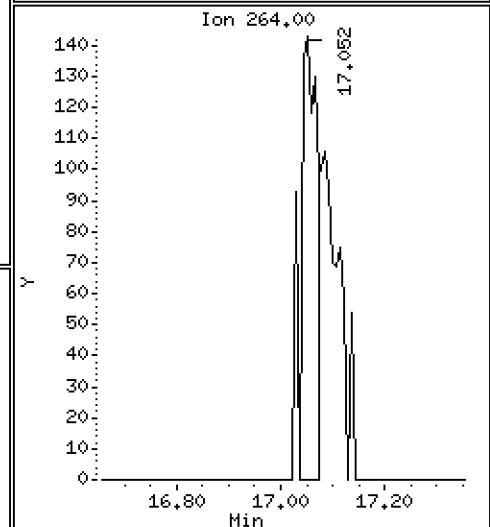
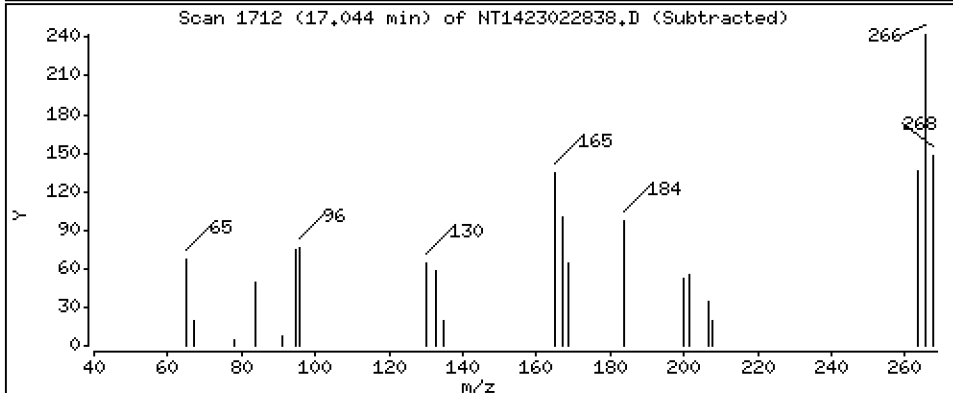
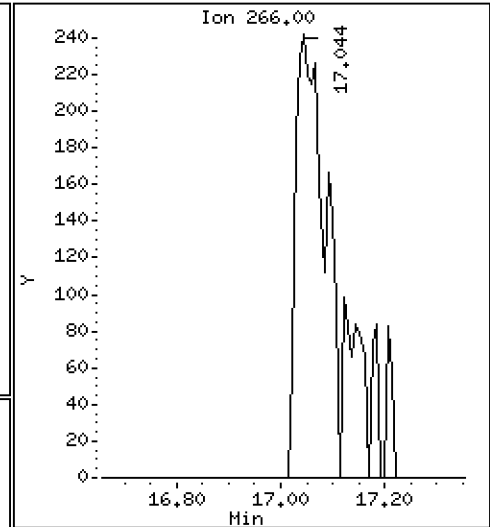
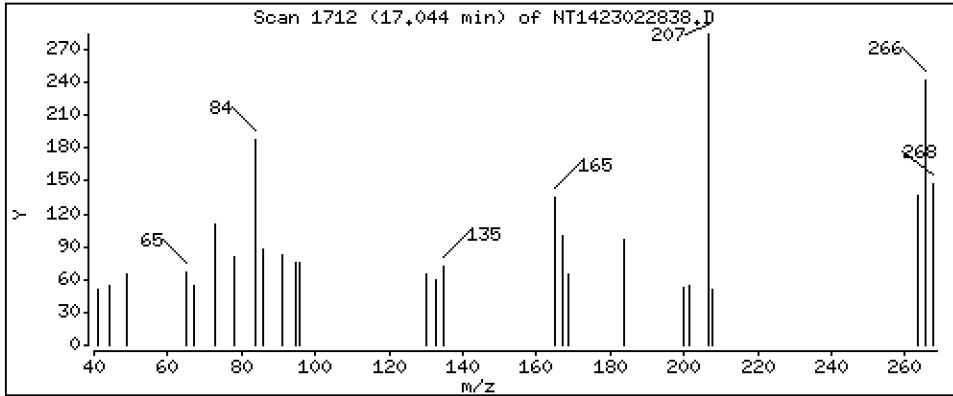
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 0,1123 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

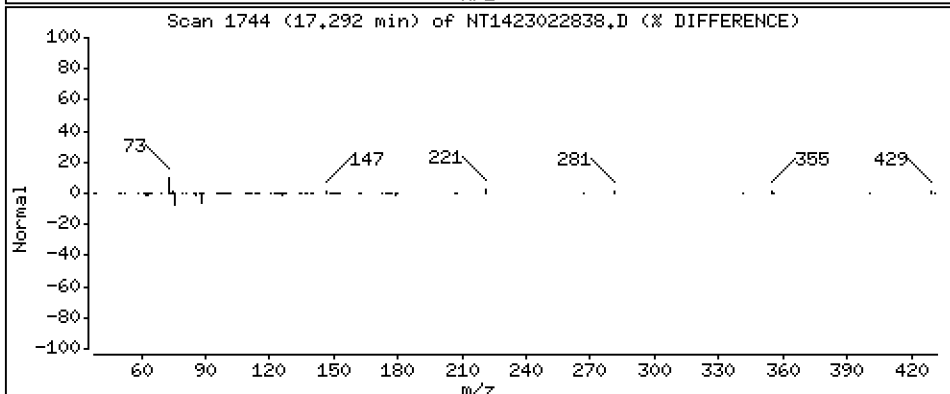
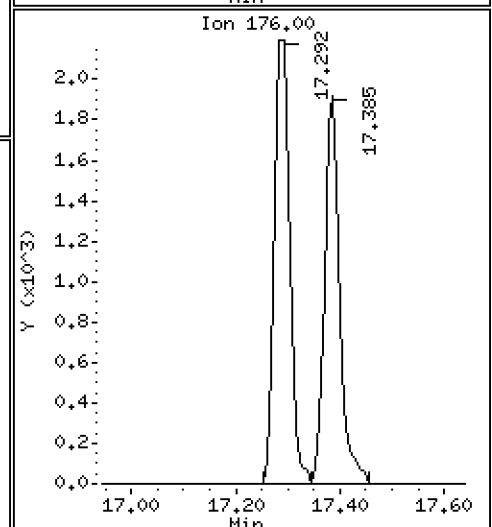
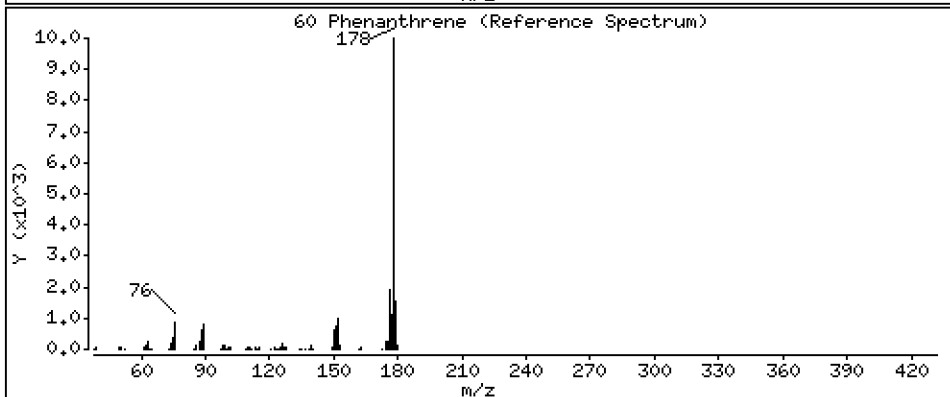
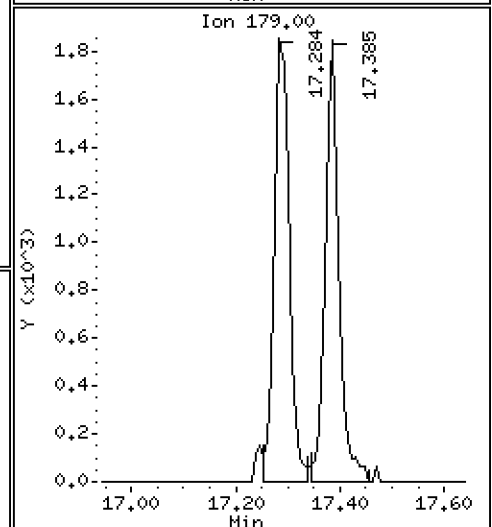
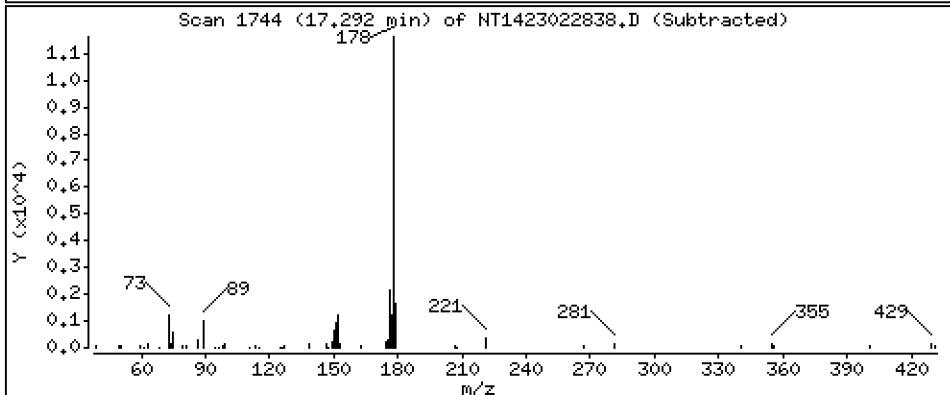
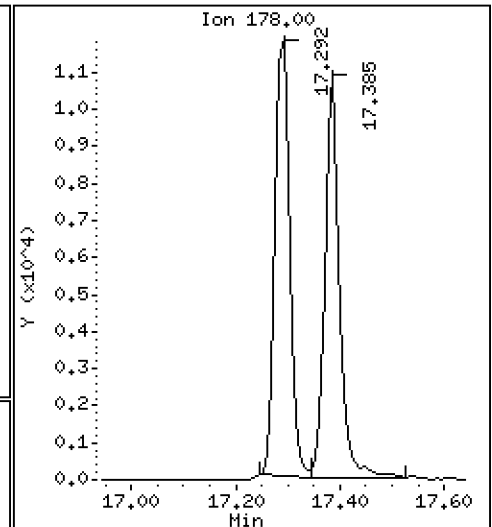
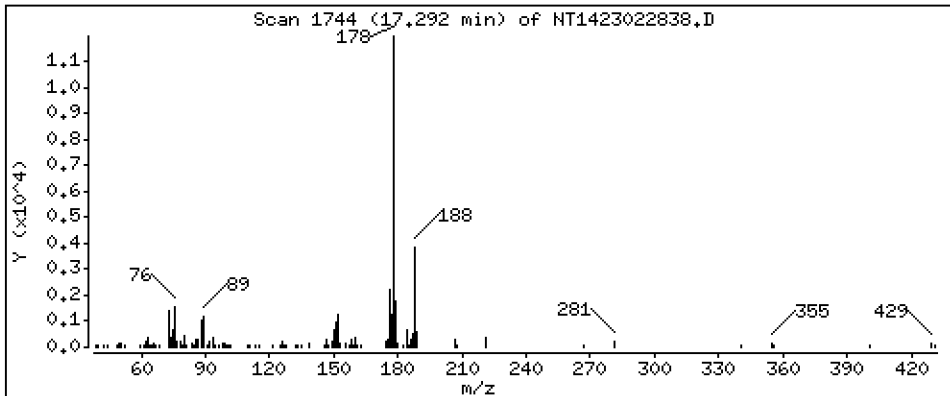
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 0,2004 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

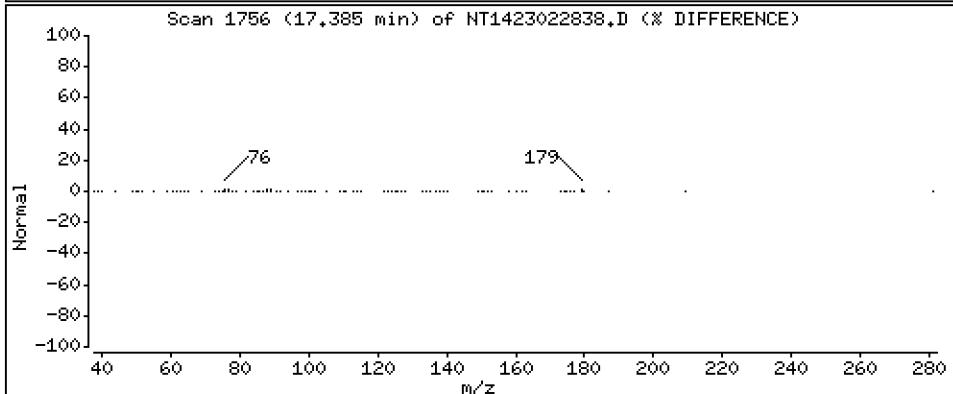
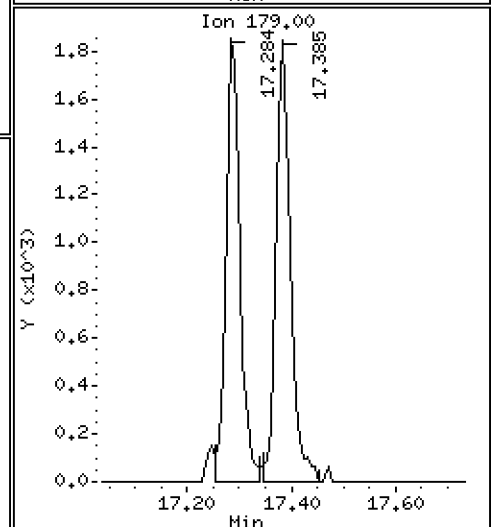
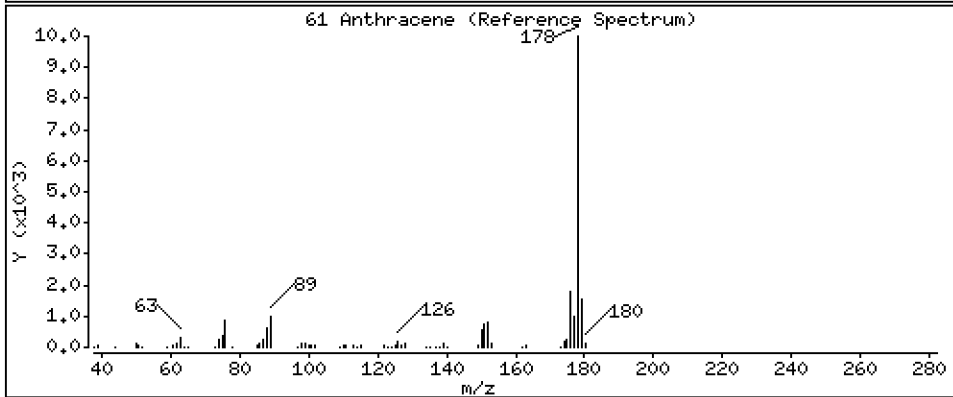
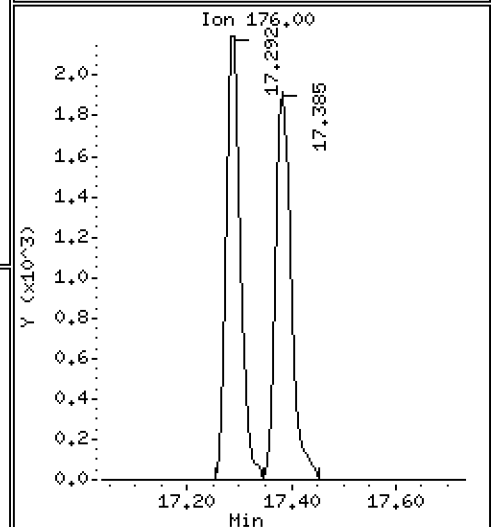
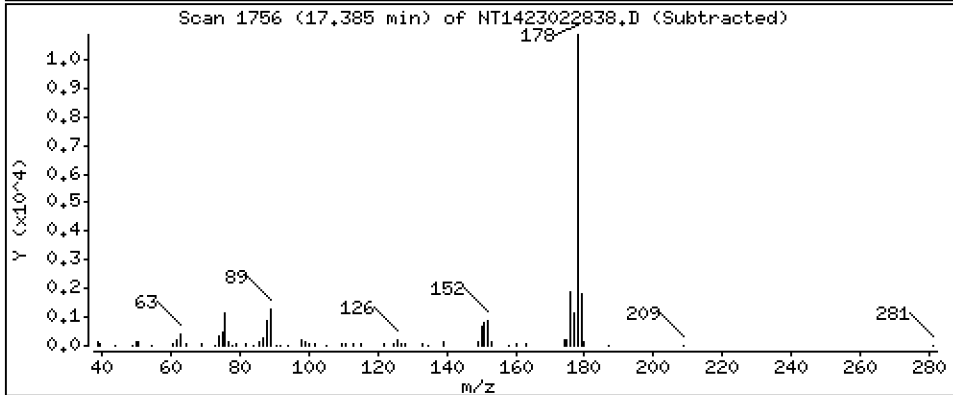
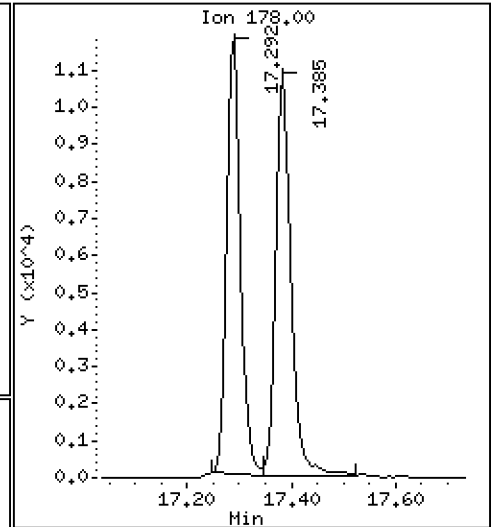
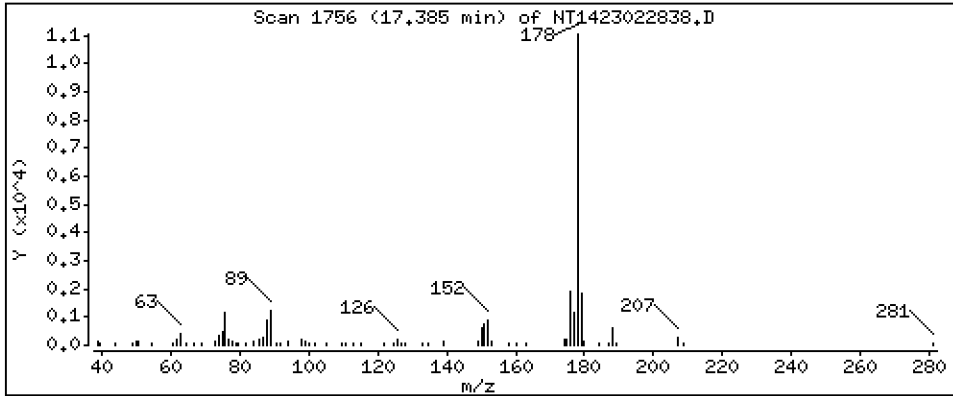
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 0,2011 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

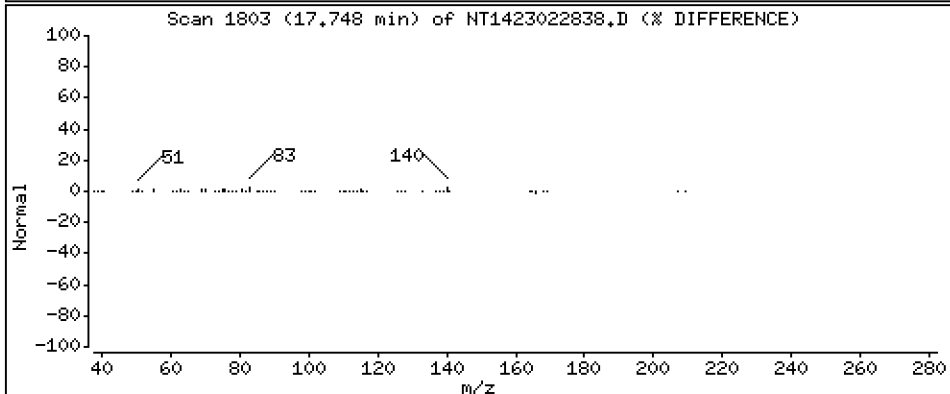
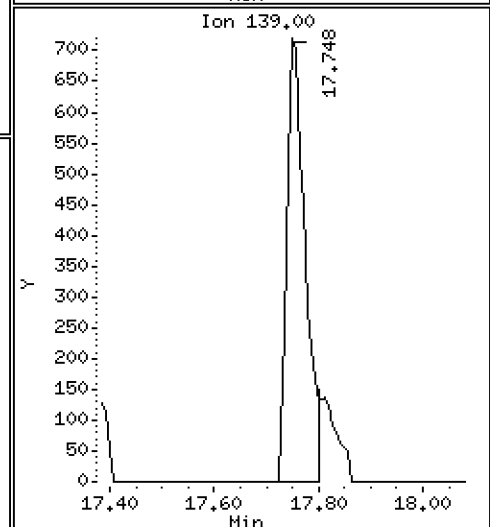
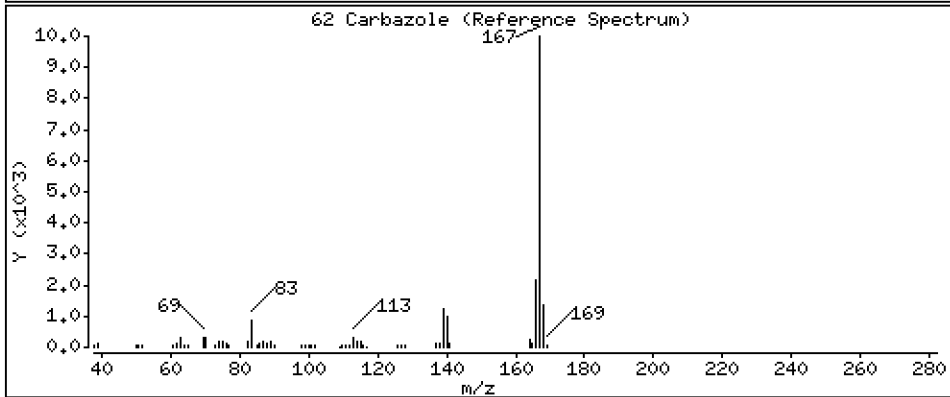
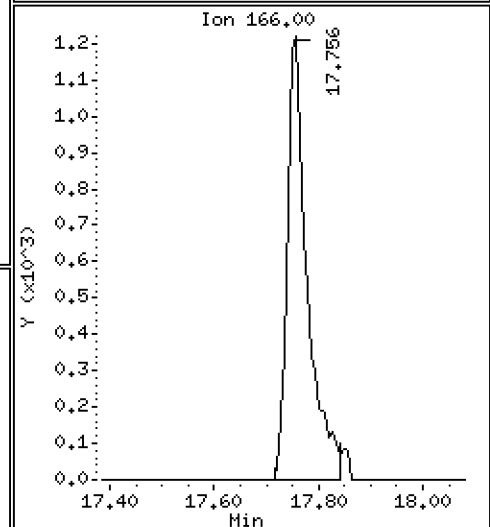
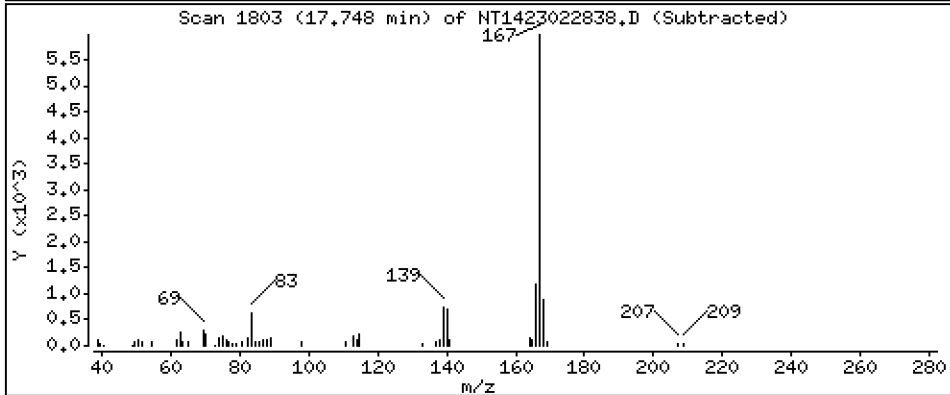
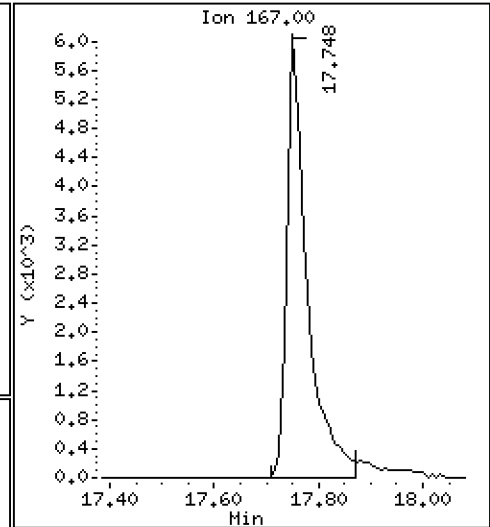
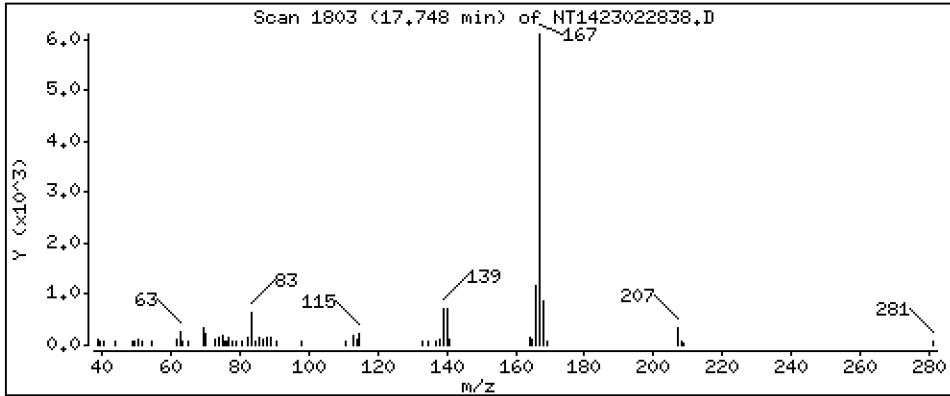
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 0,1835 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

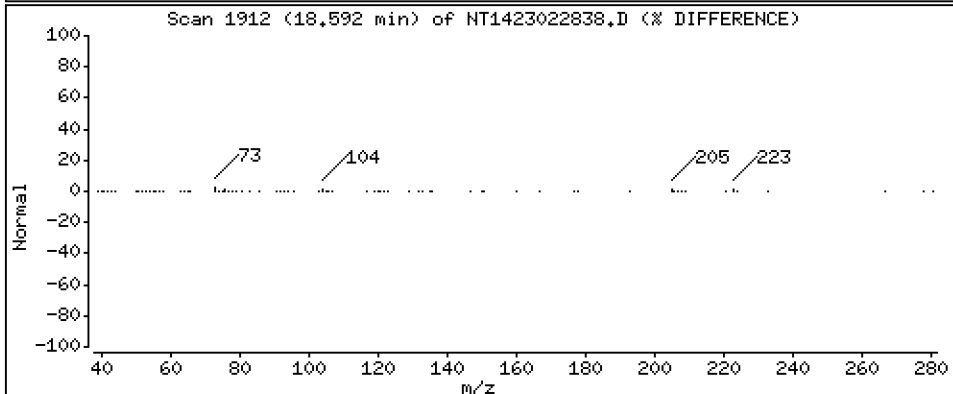
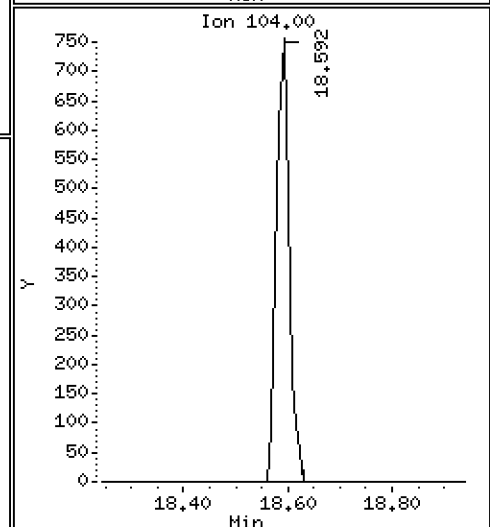
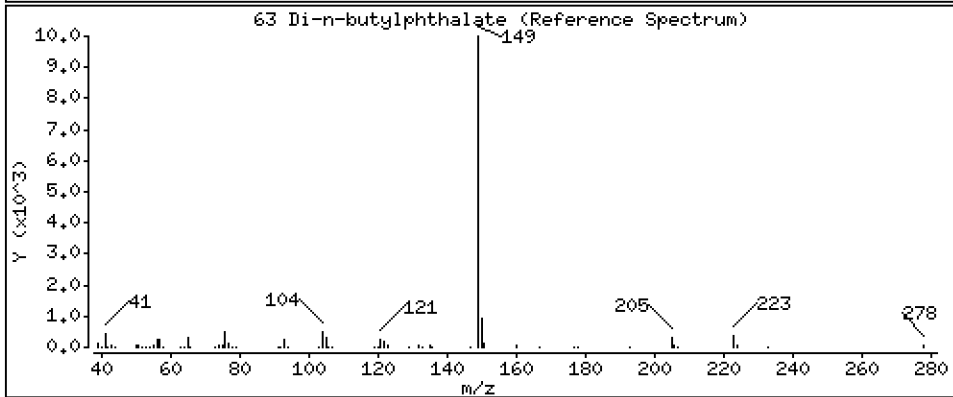
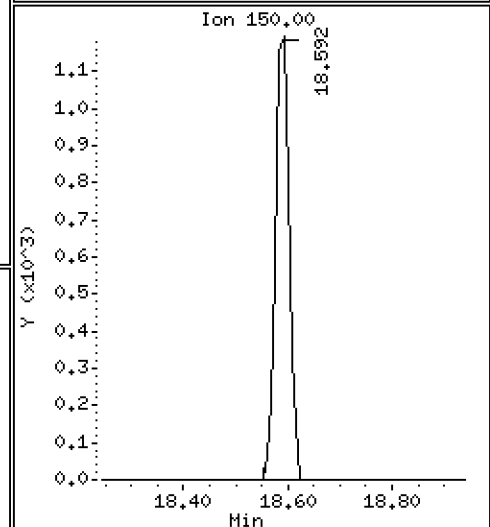
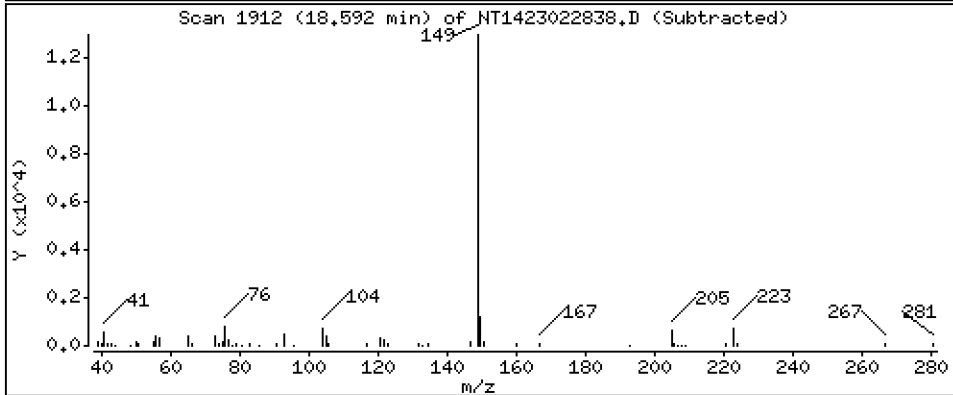
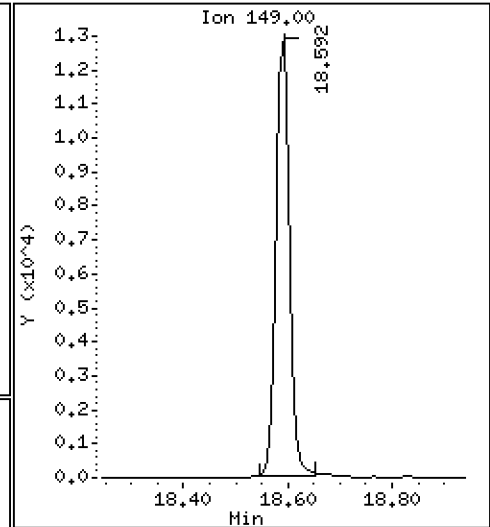
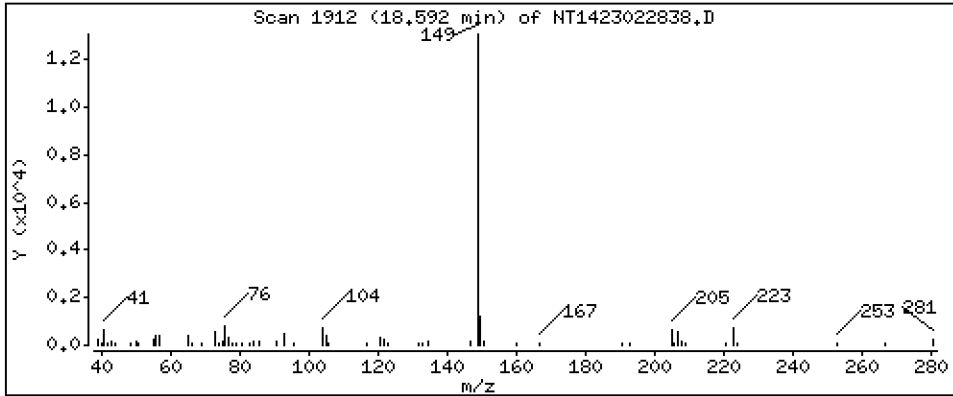
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

63 Di-n-butylphthalate

Concentration: 0.1830 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

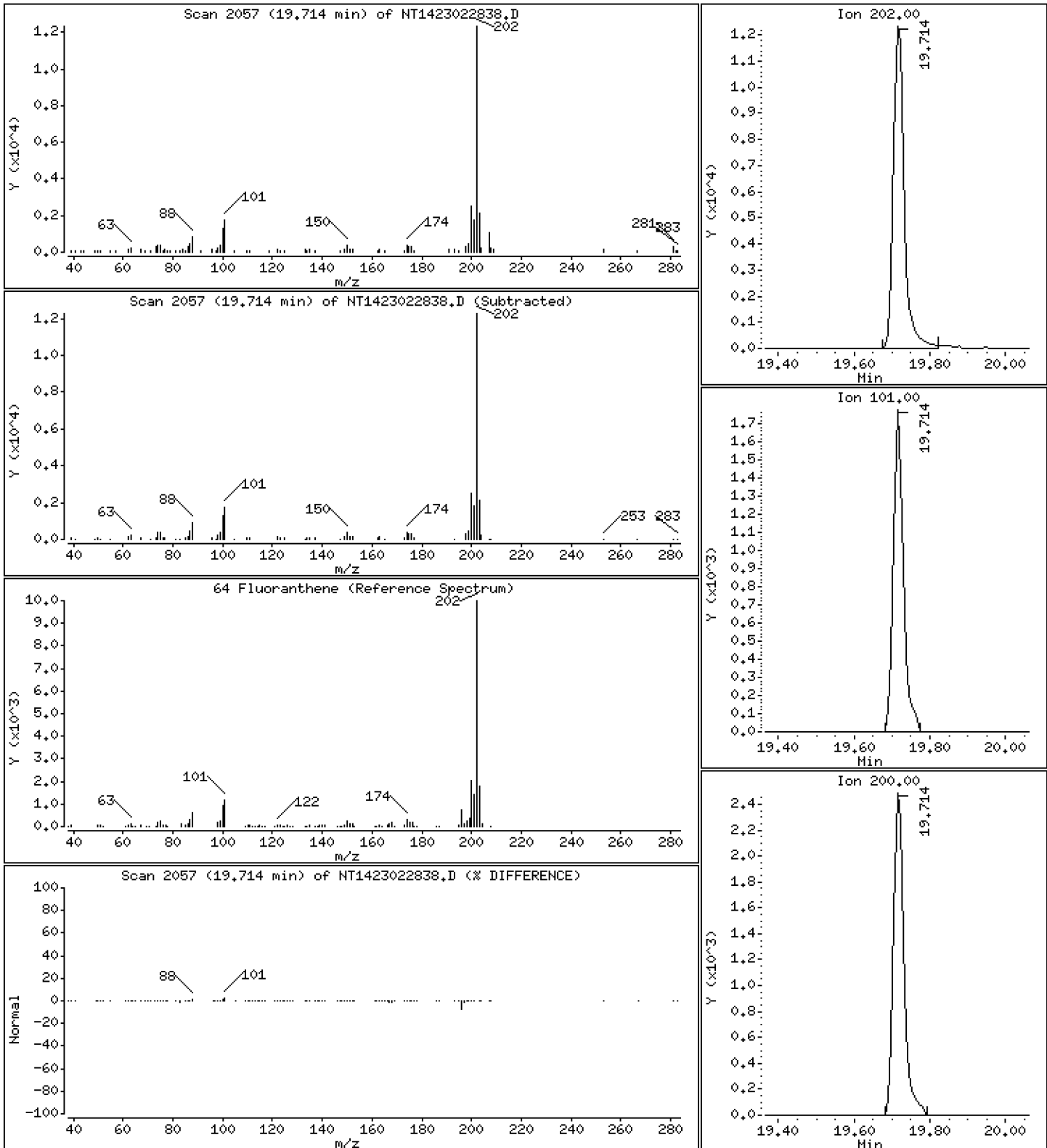
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 0,1837 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

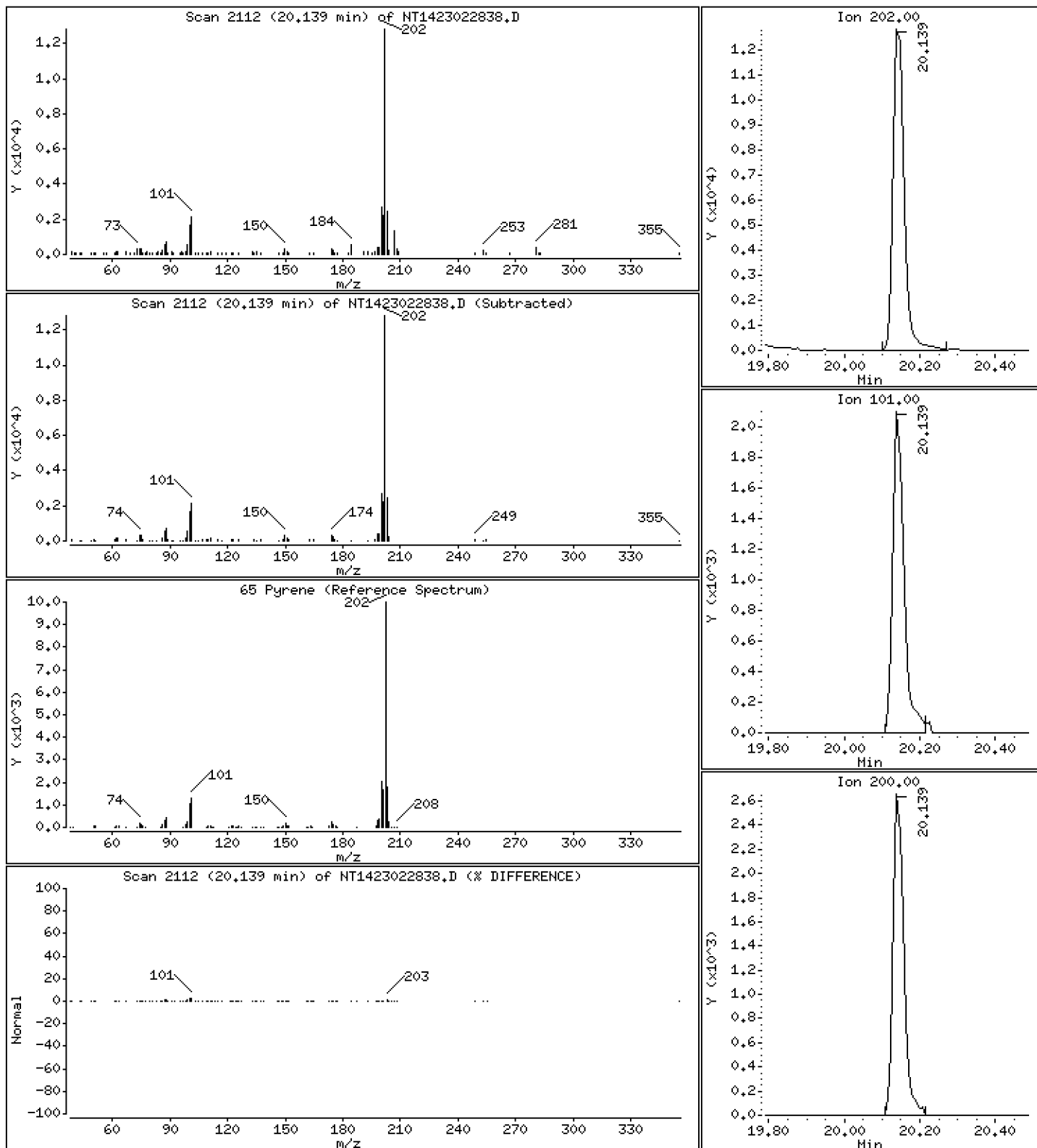
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 0,1835 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

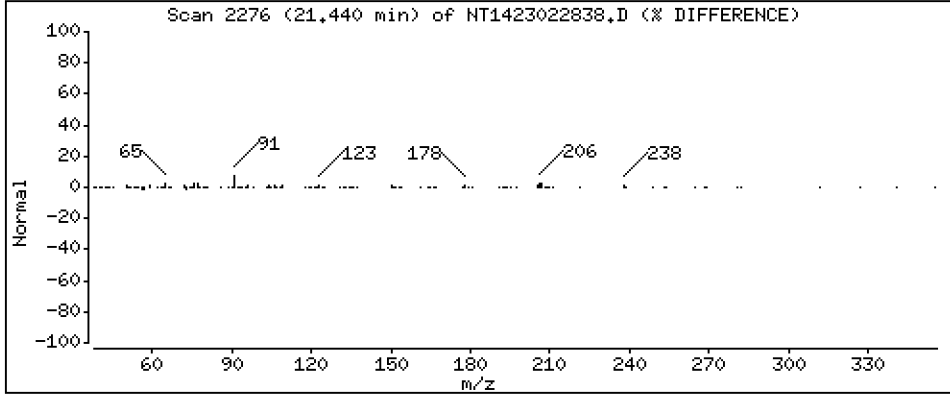
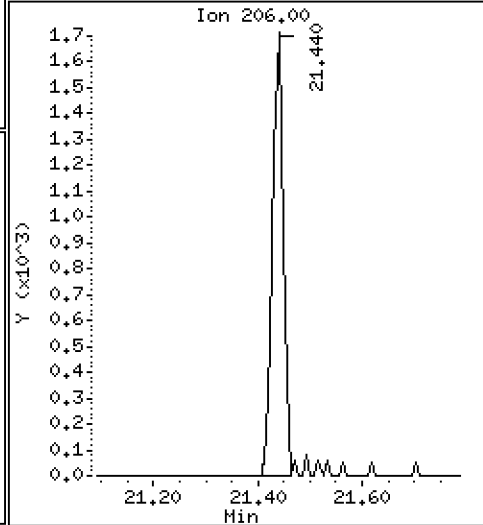
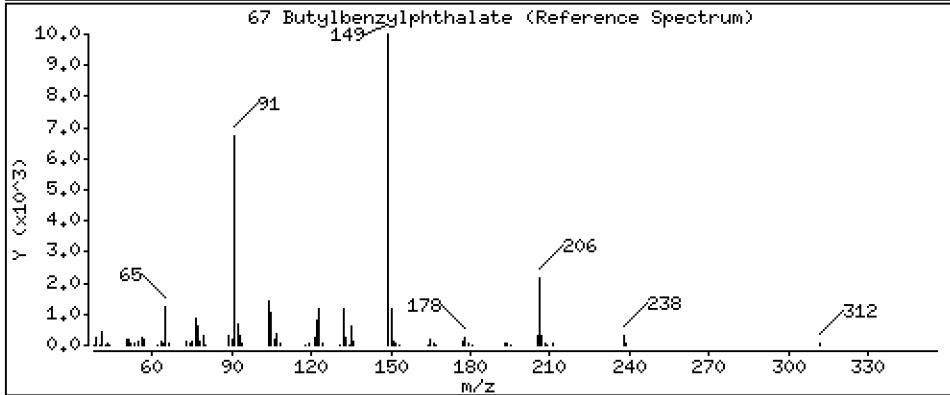
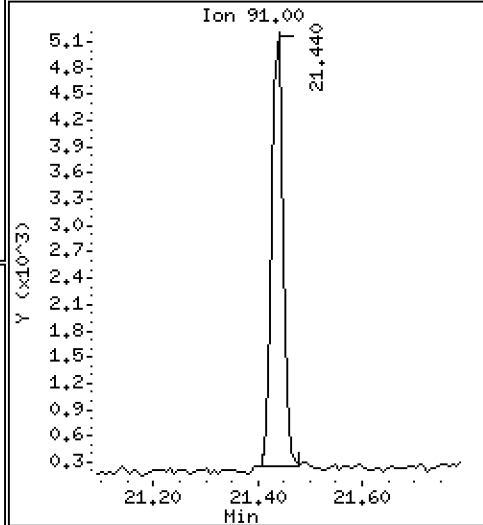
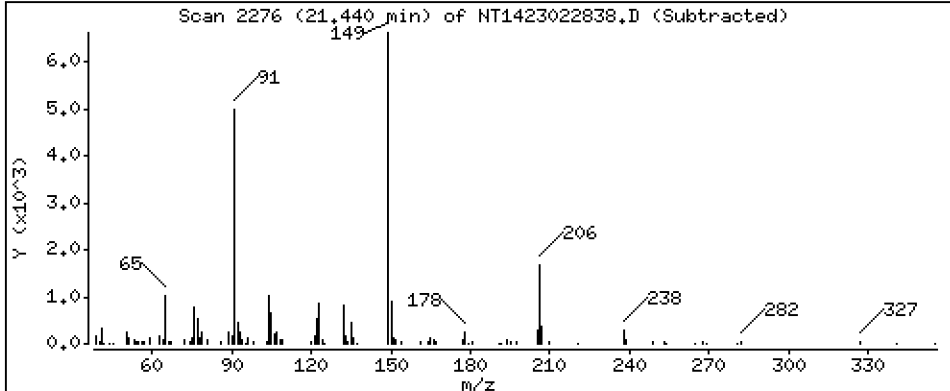
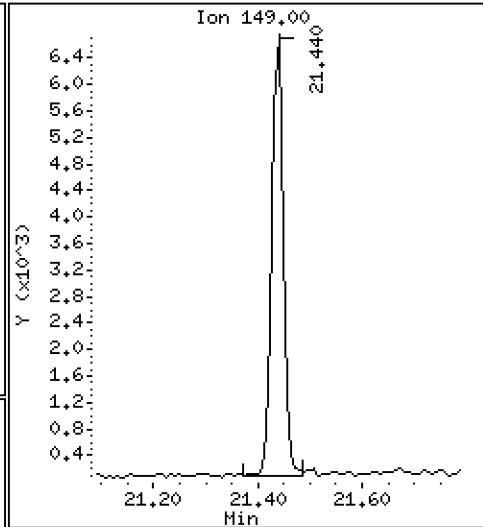
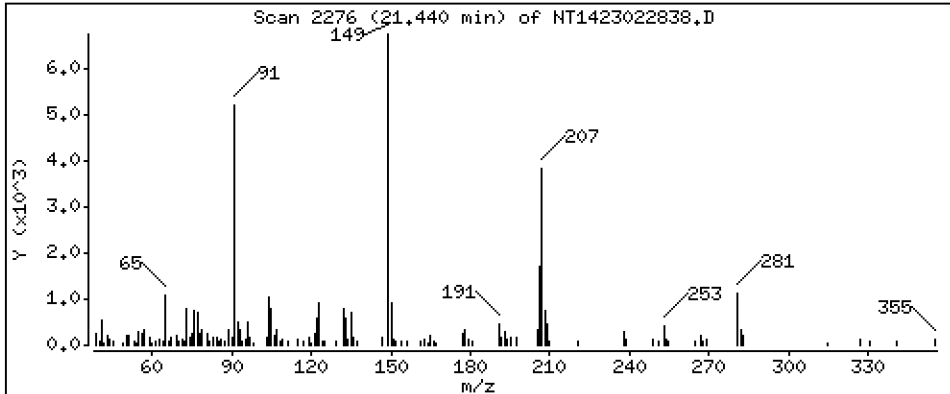
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 0,1984 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

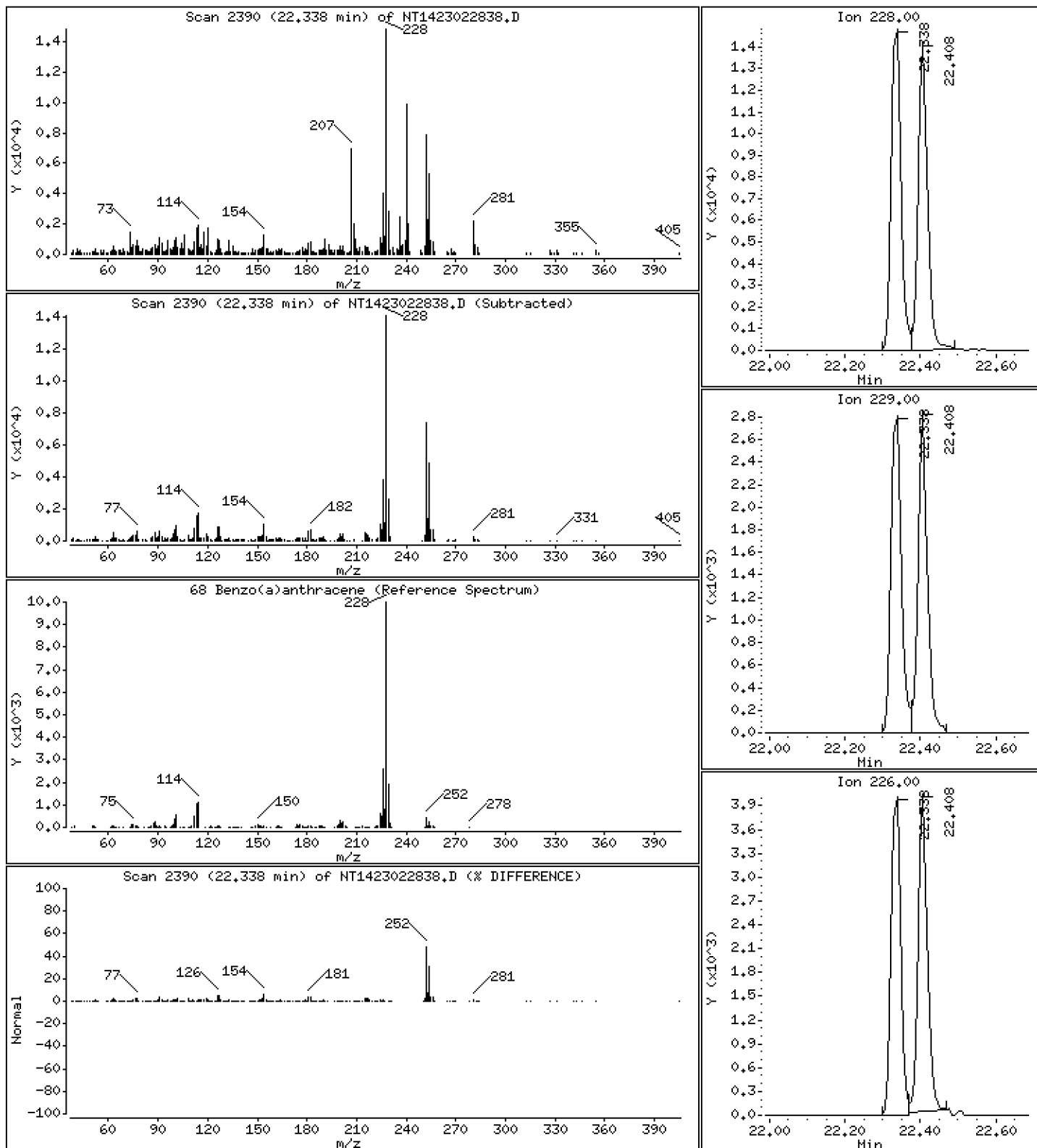
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 0,2213 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

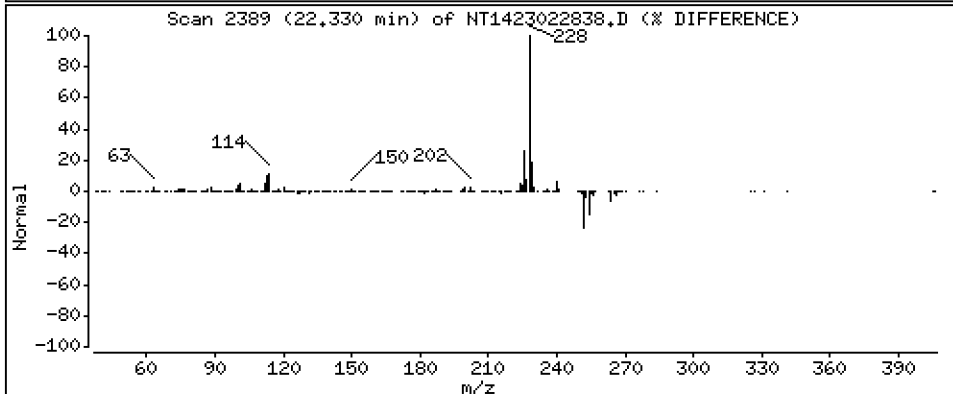
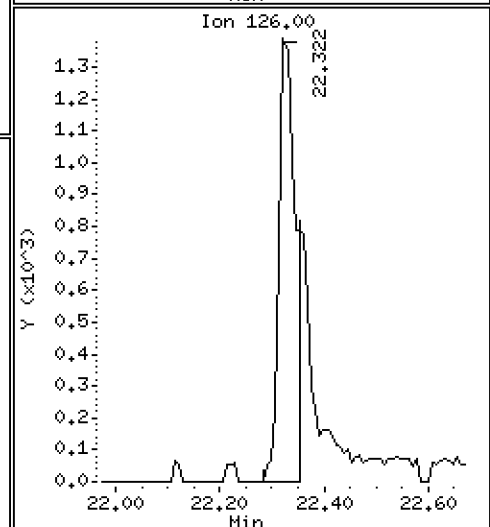
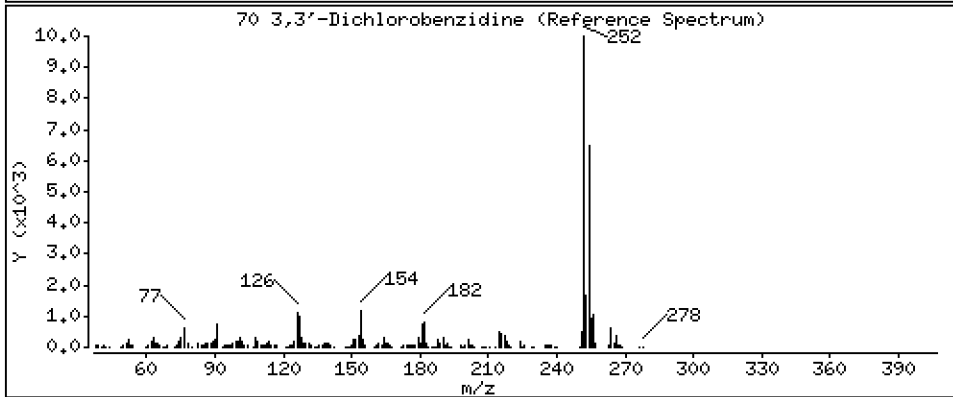
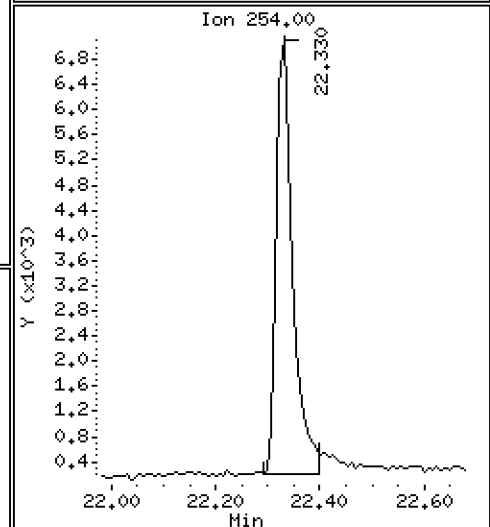
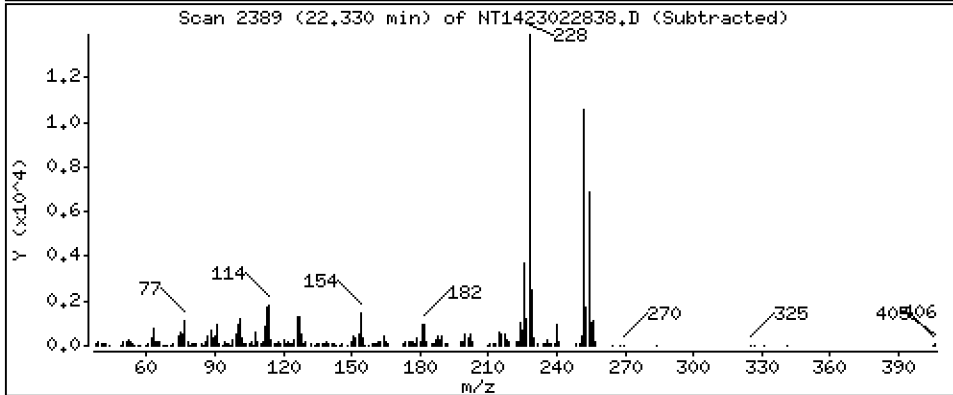
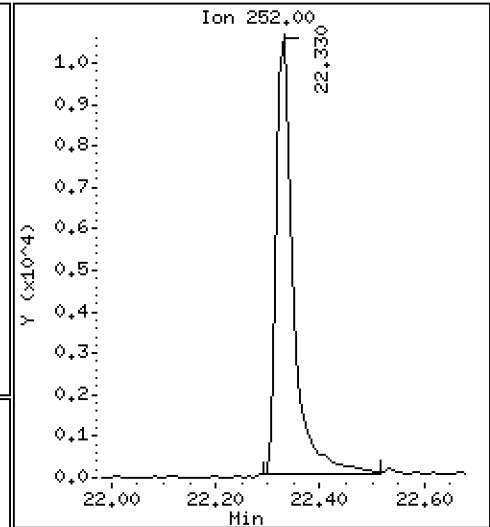
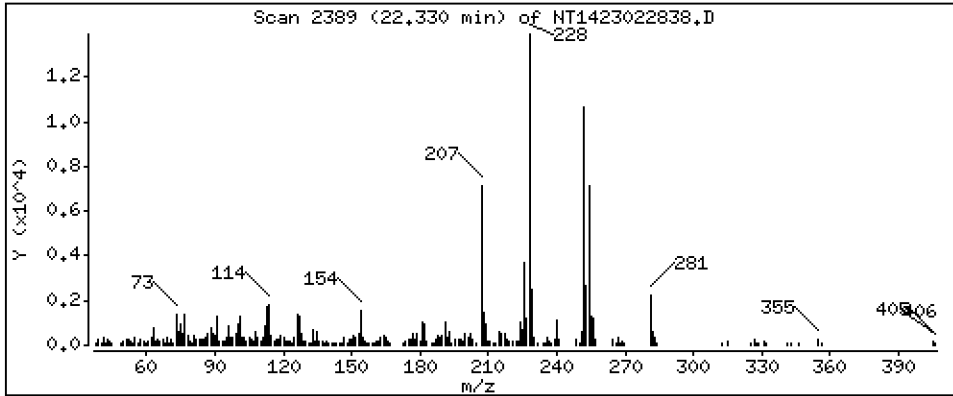
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

70 3,3'-Dichlorobenzidine

Concentration: 0,7194 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

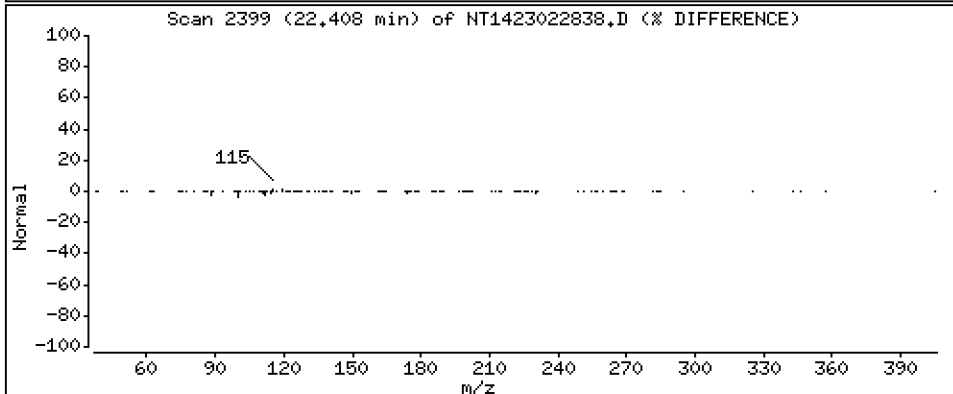
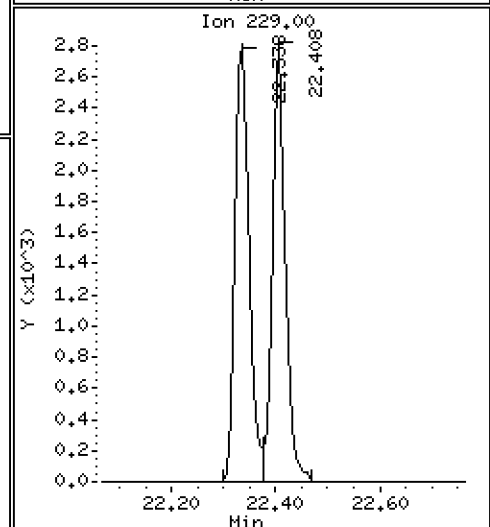
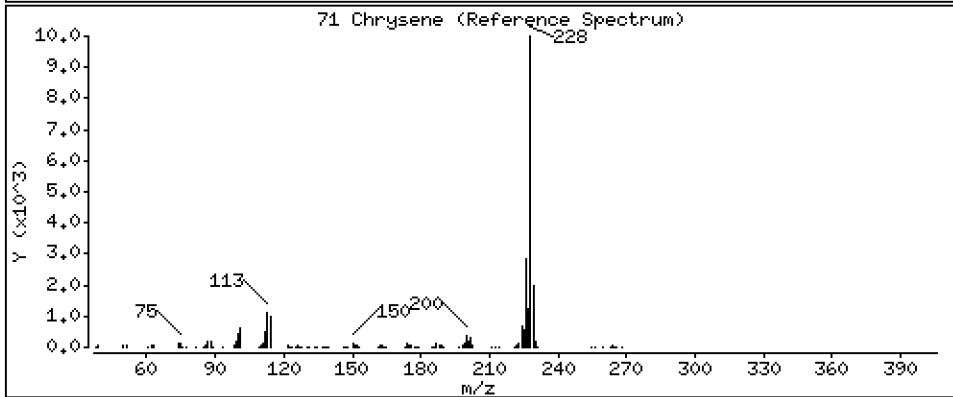
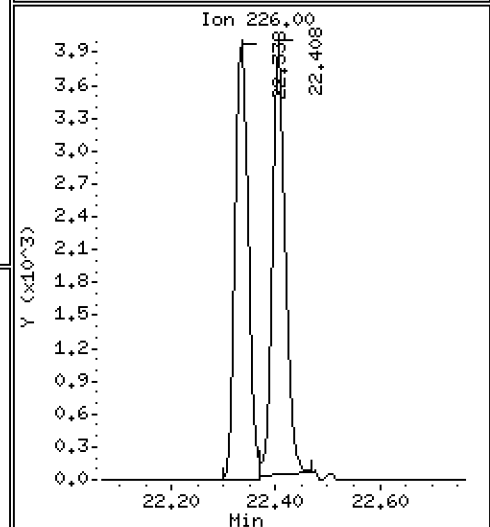
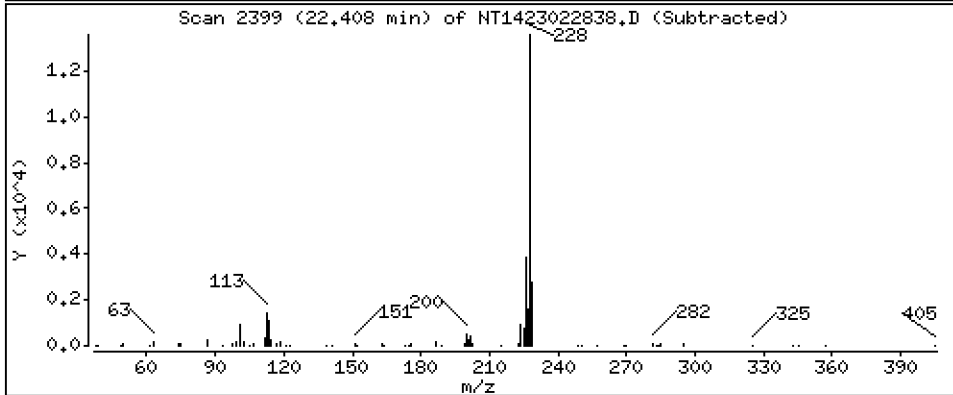
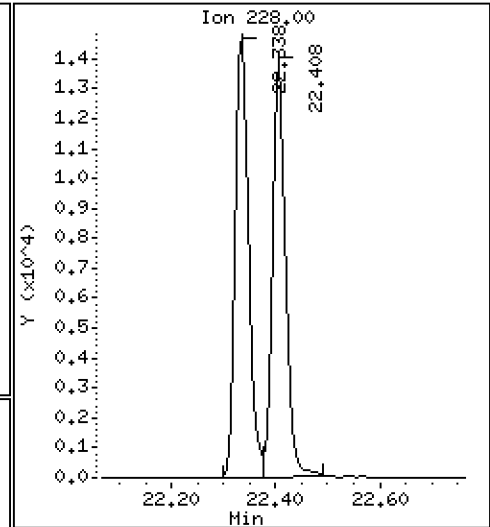
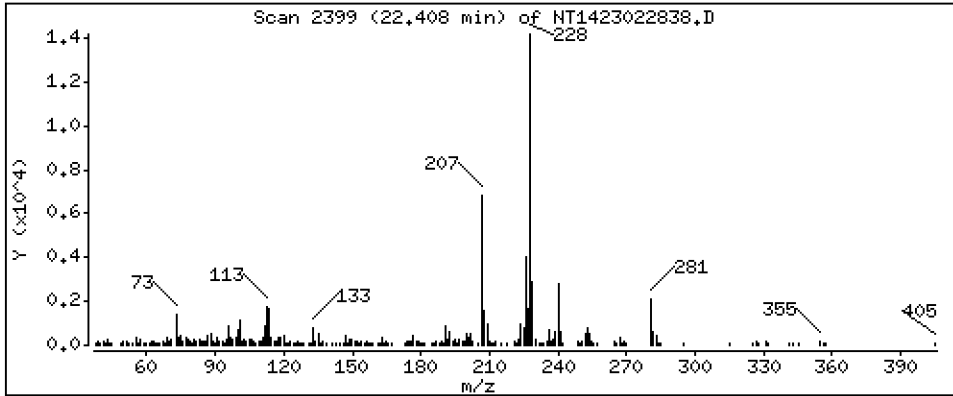
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 0,2150 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

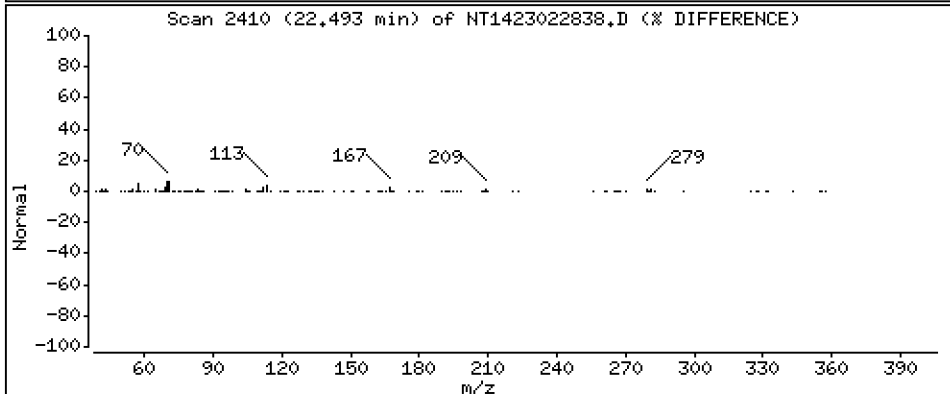
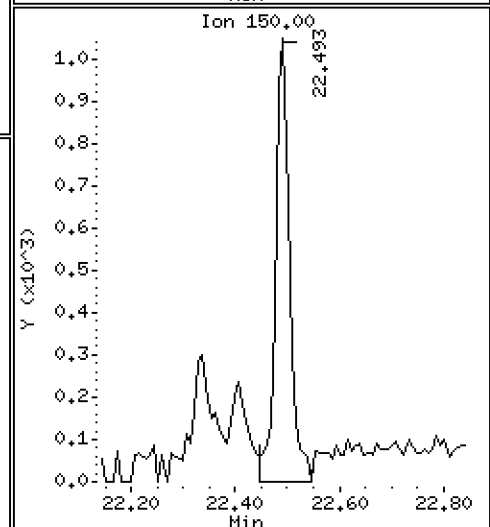
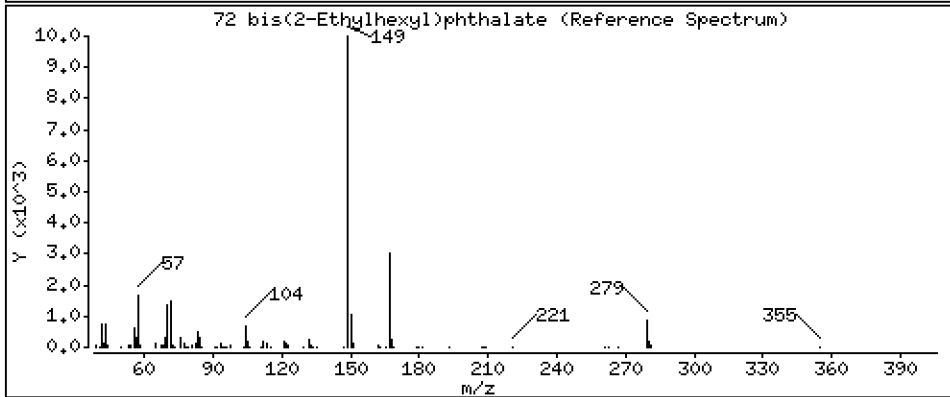
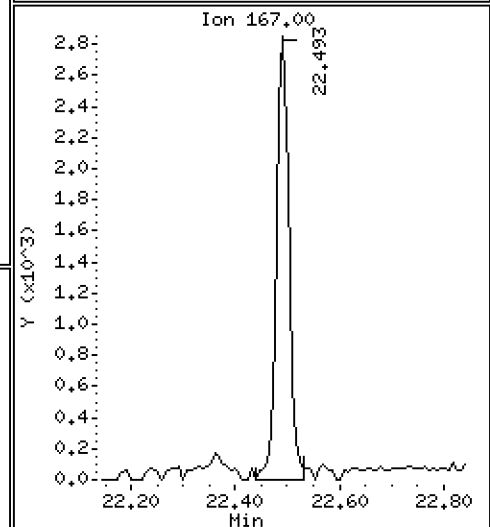
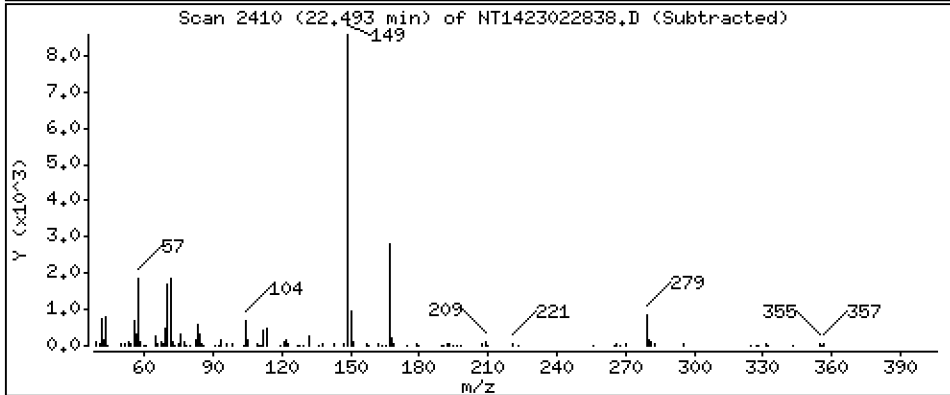
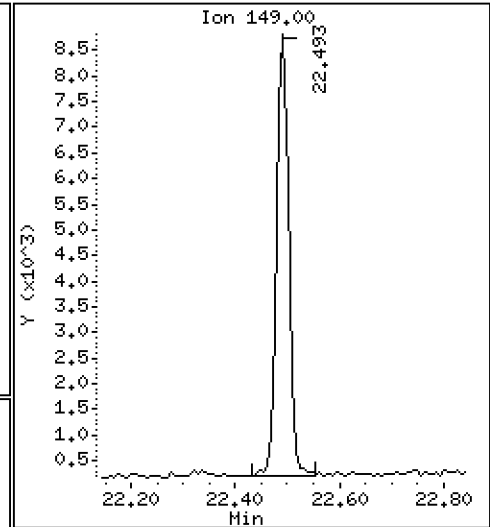
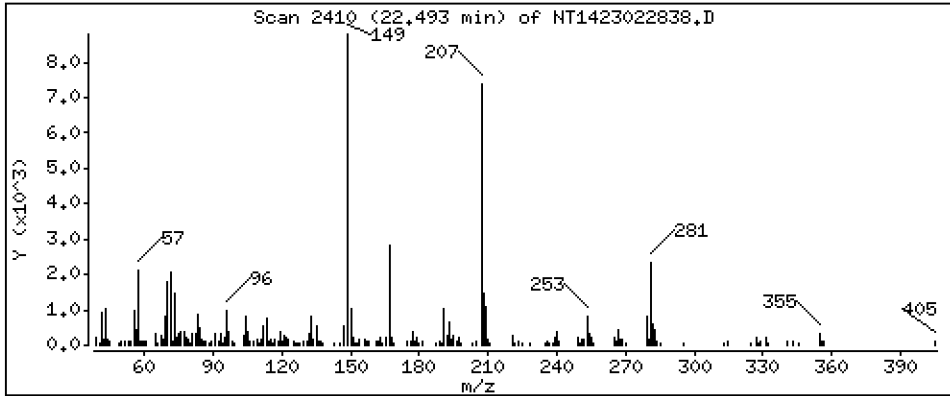
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 0,1769 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

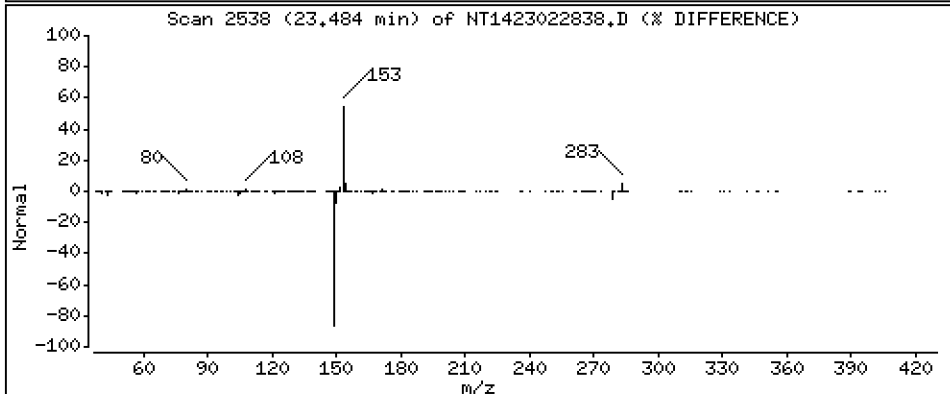
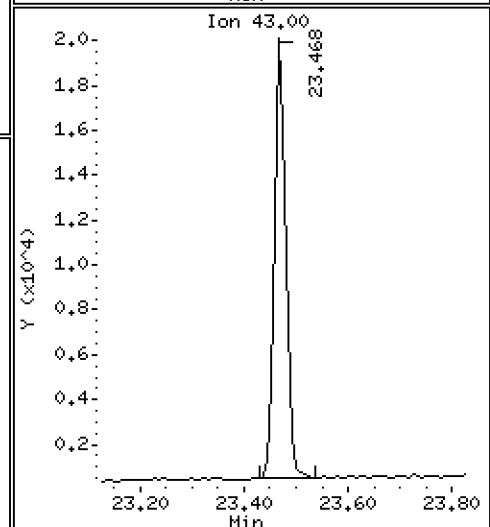
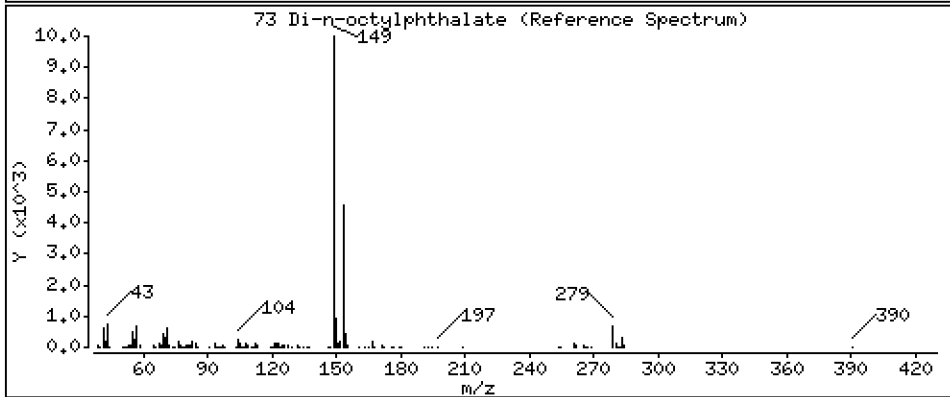
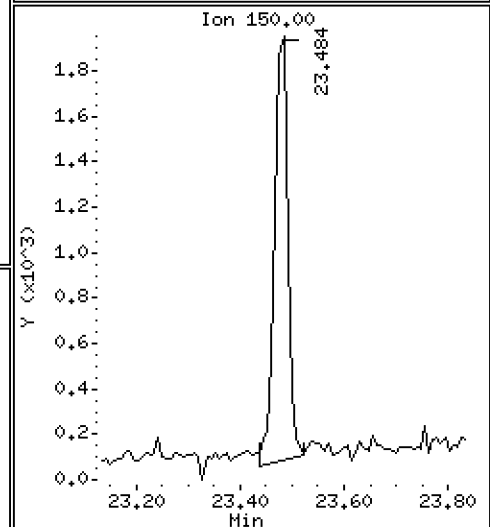
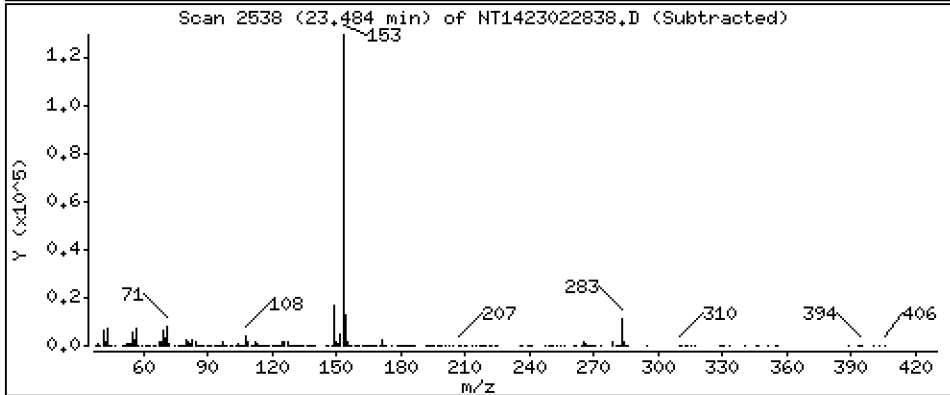
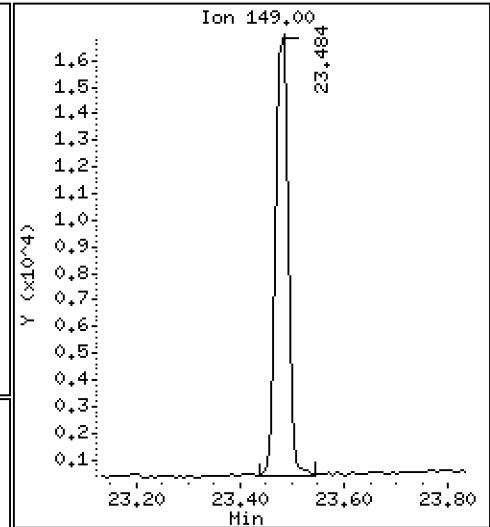
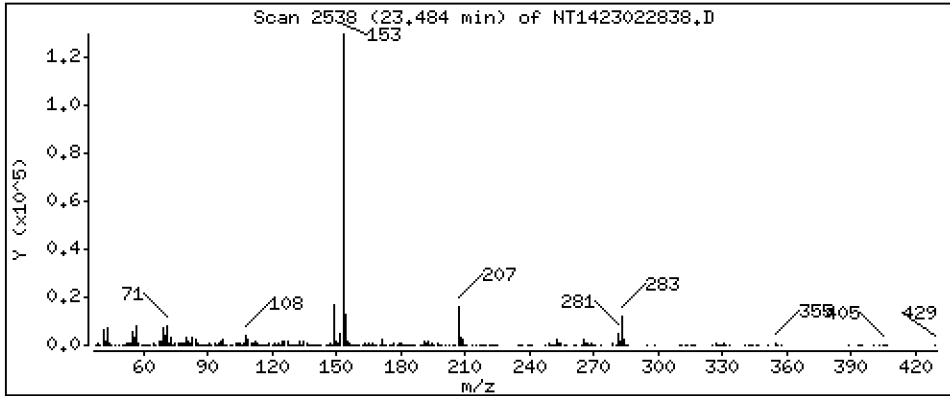
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 0,2029 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

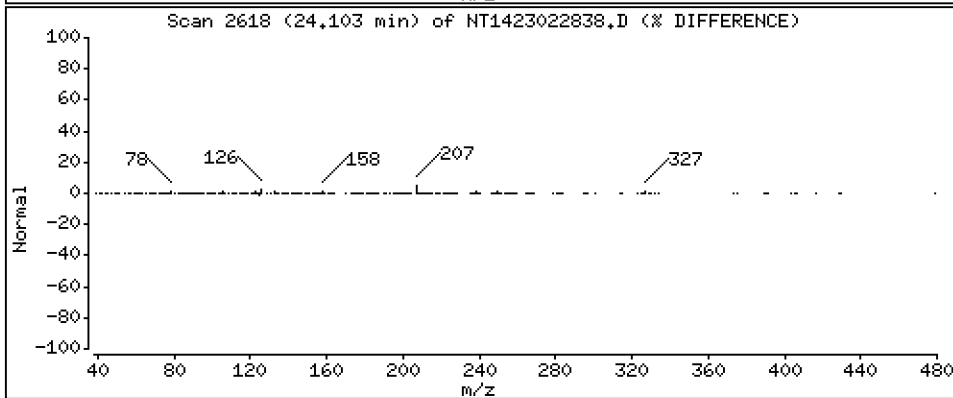
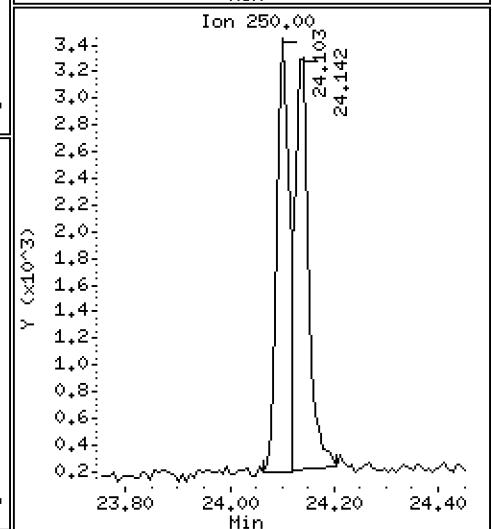
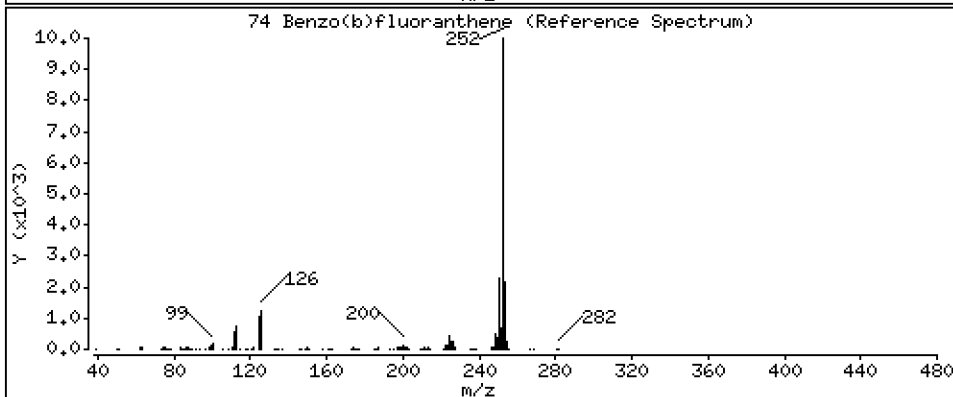
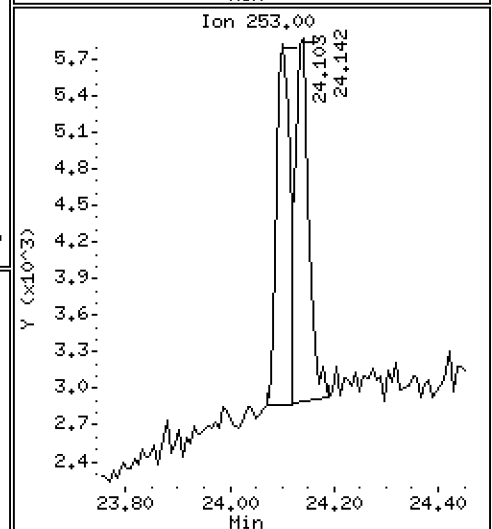
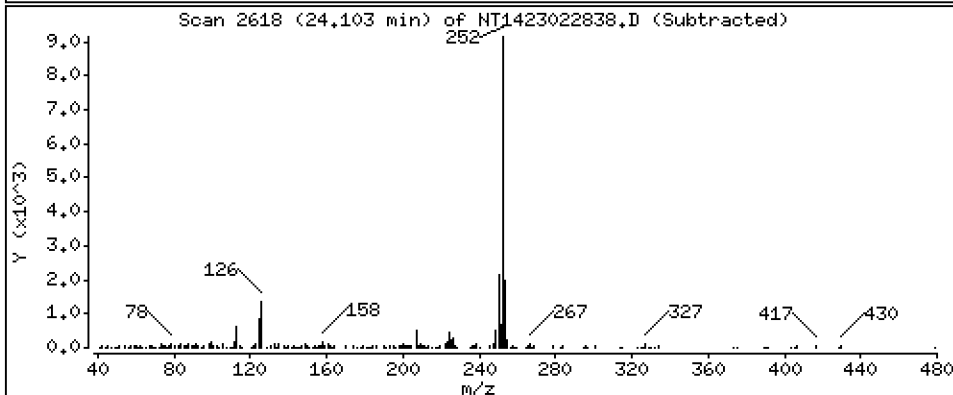
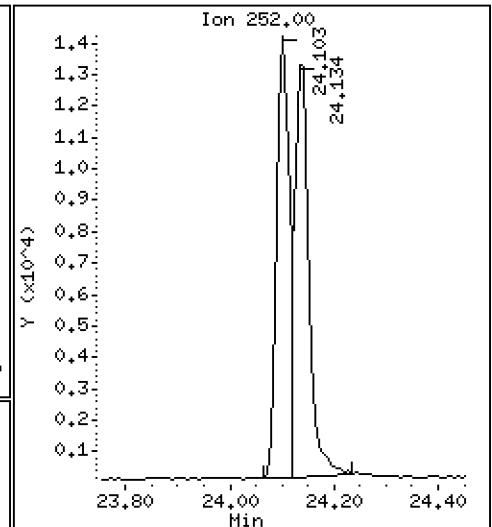
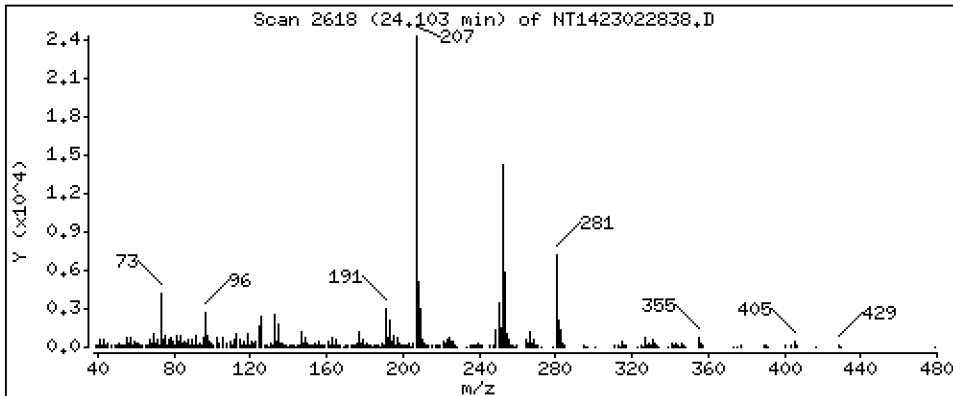
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 0,2228 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

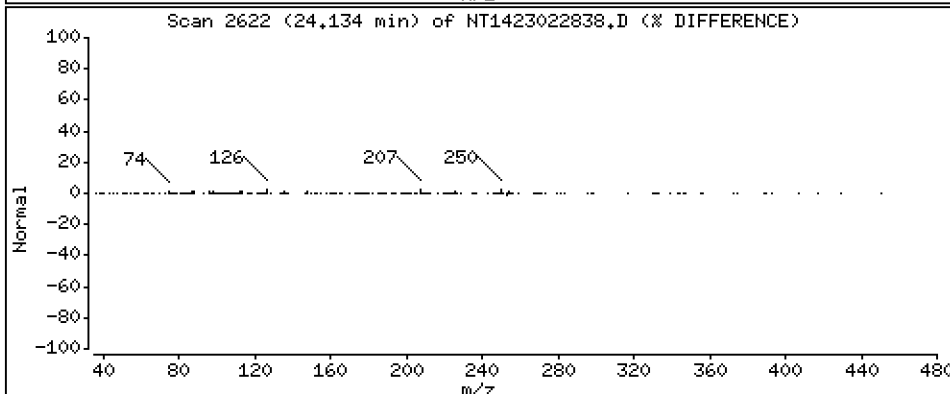
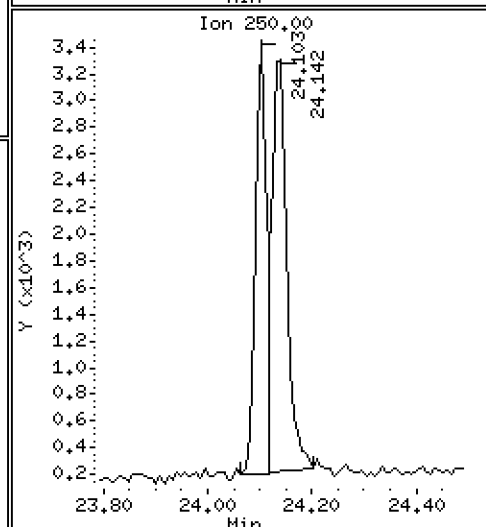
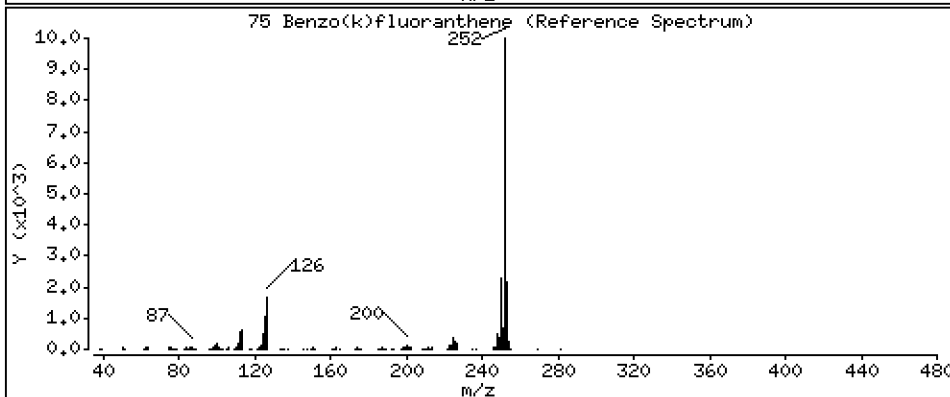
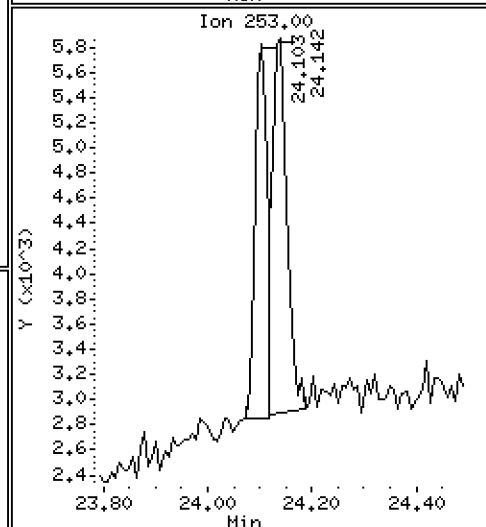
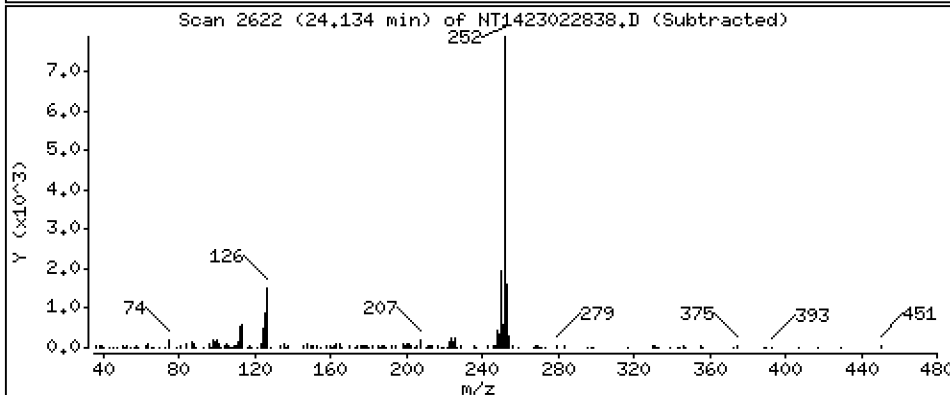
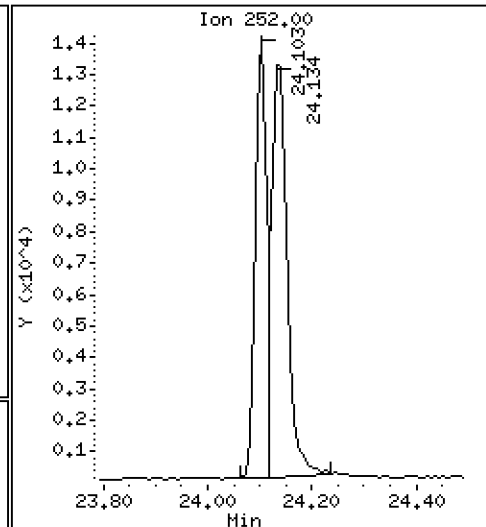
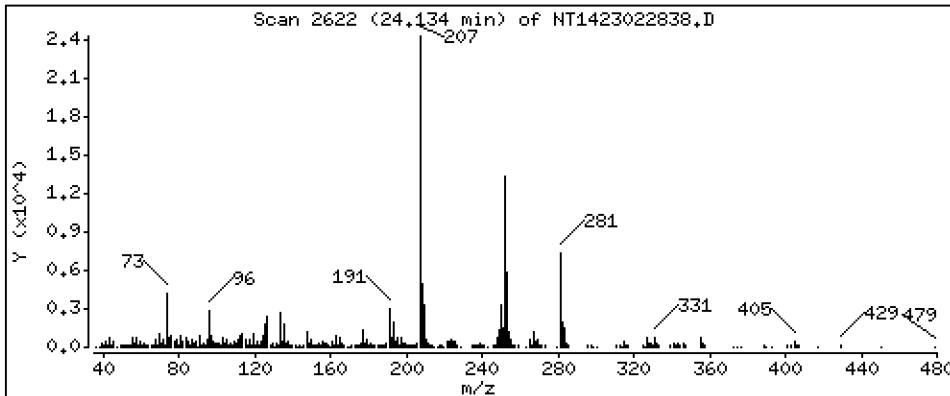
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 0,2464 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

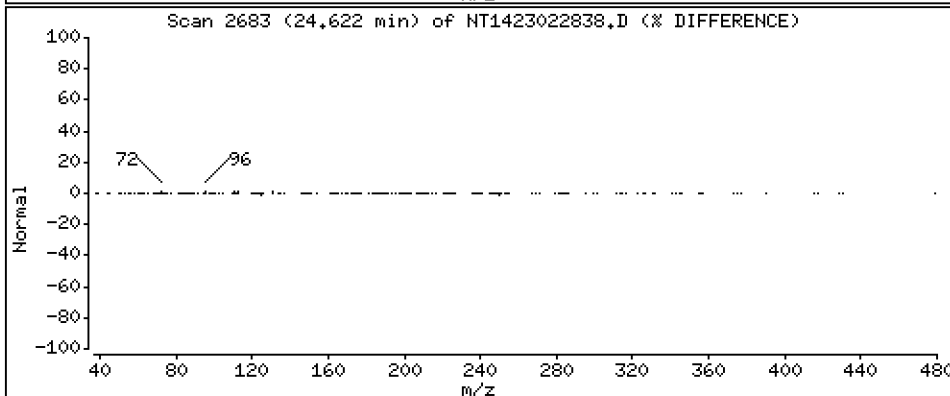
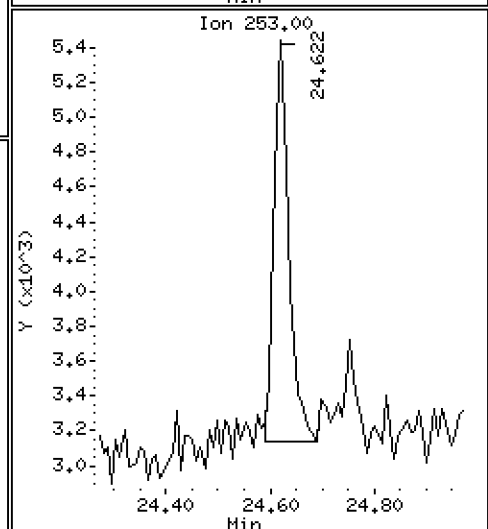
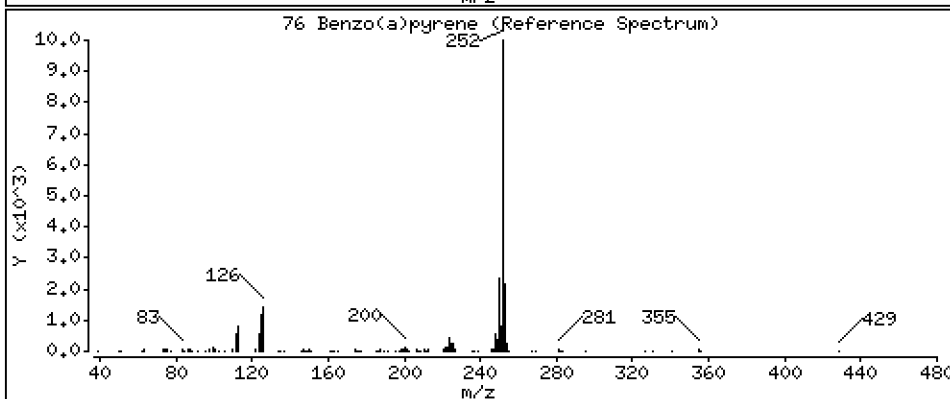
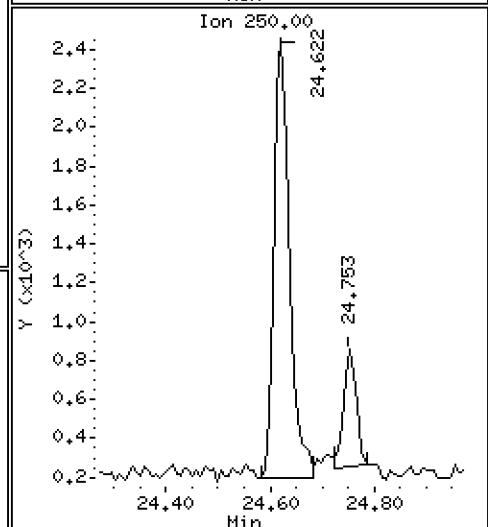
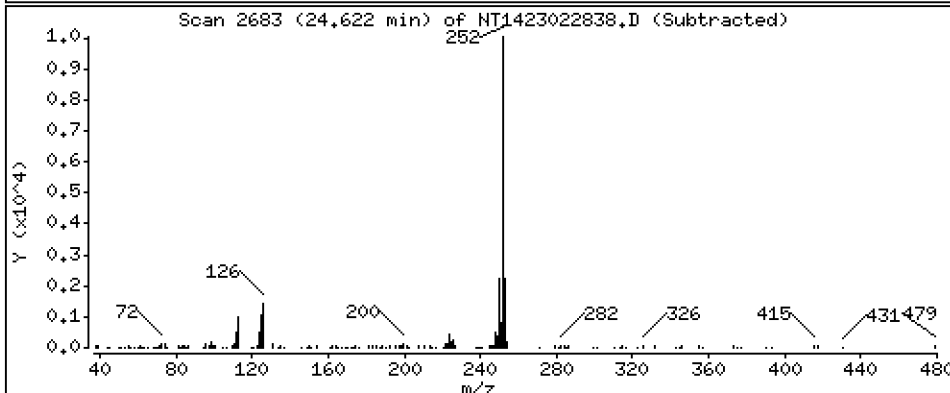
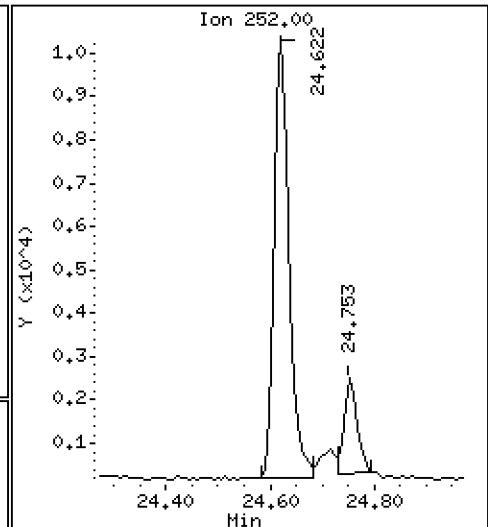
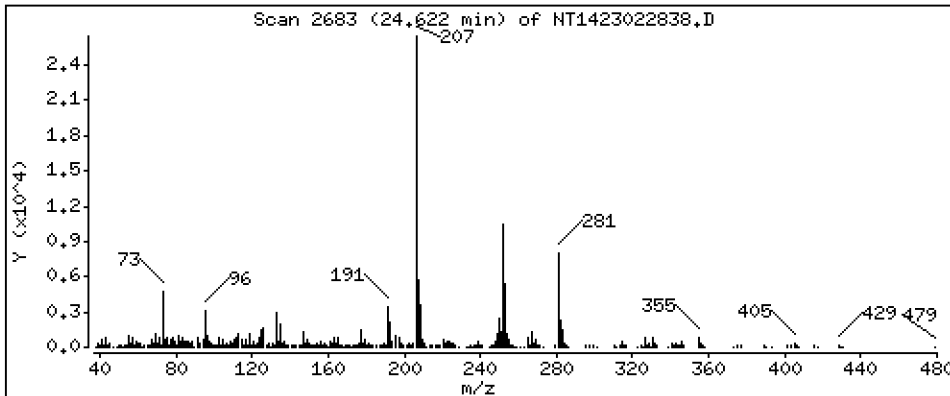
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 0,2128 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

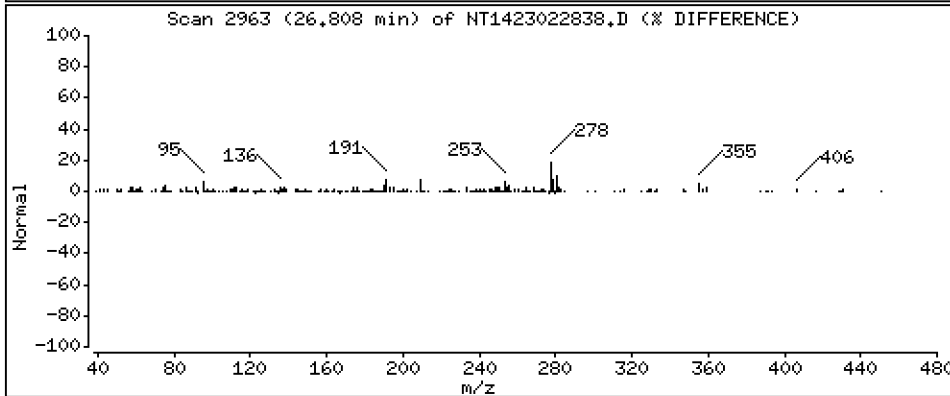
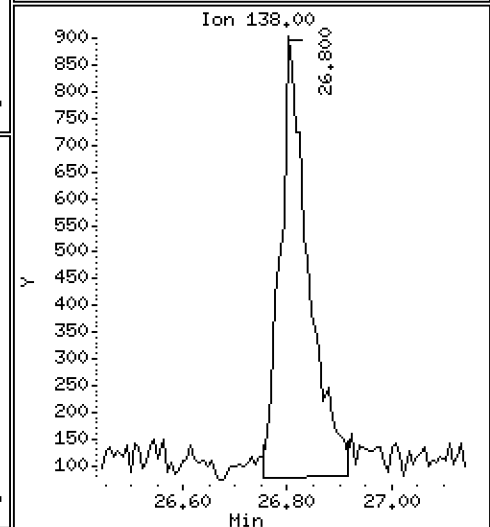
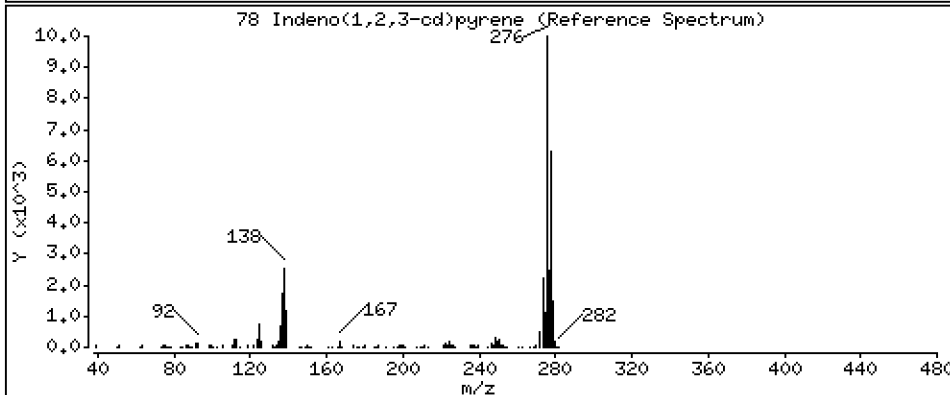
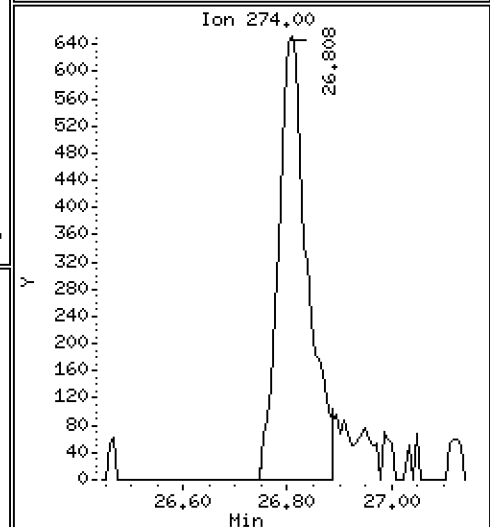
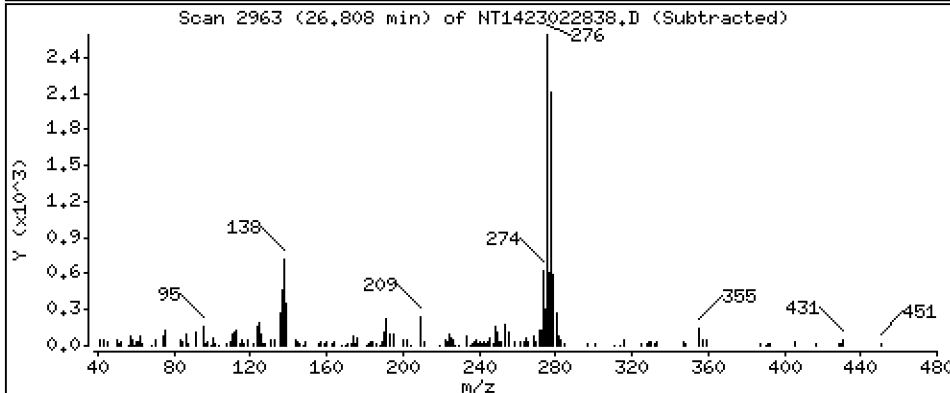
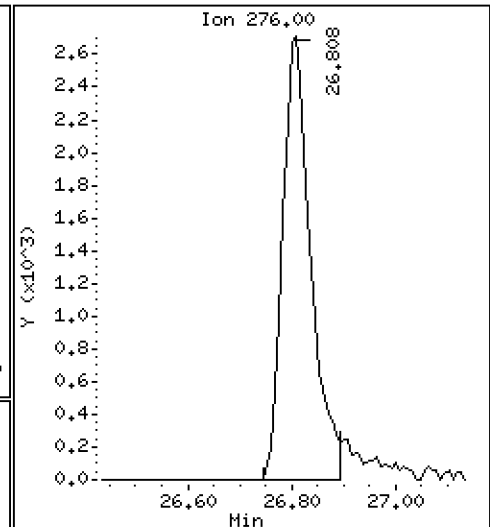
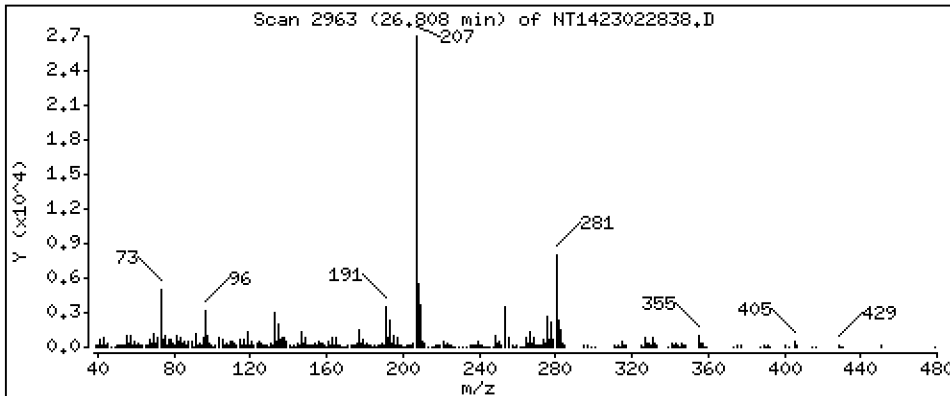
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 0,09023 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

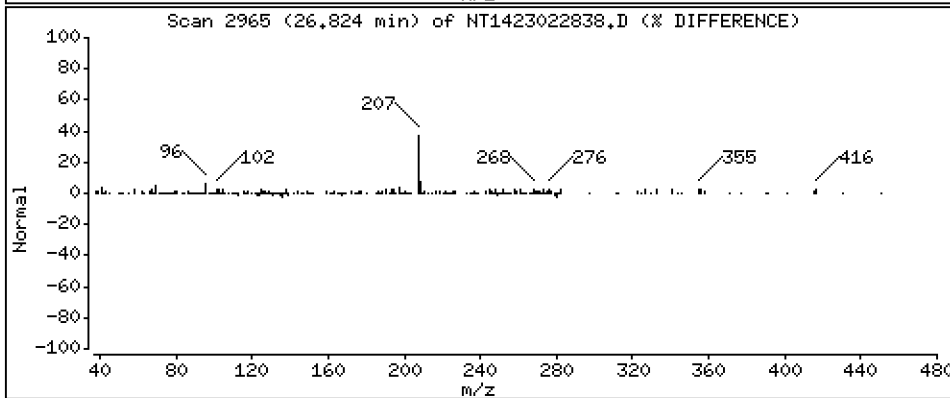
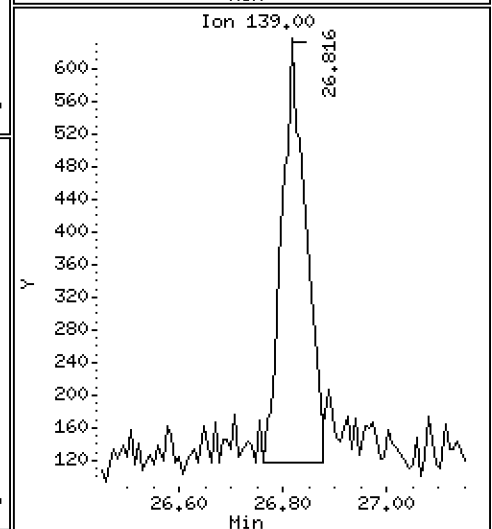
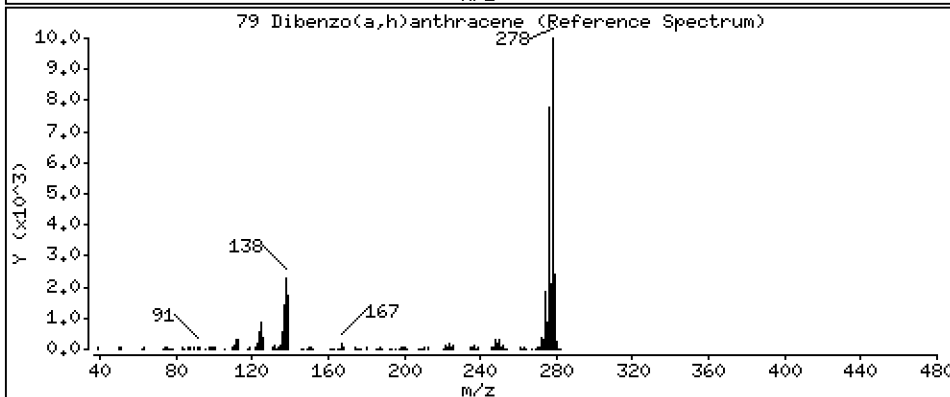
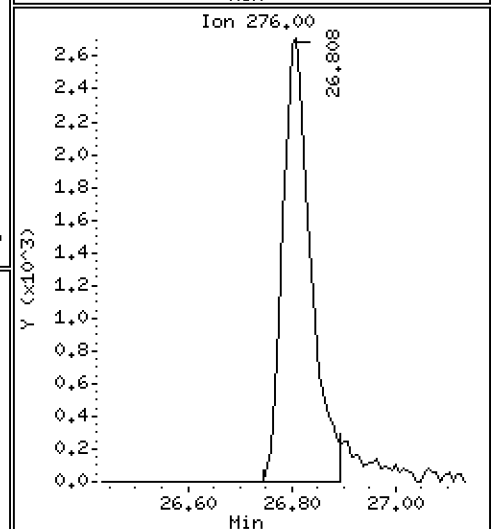
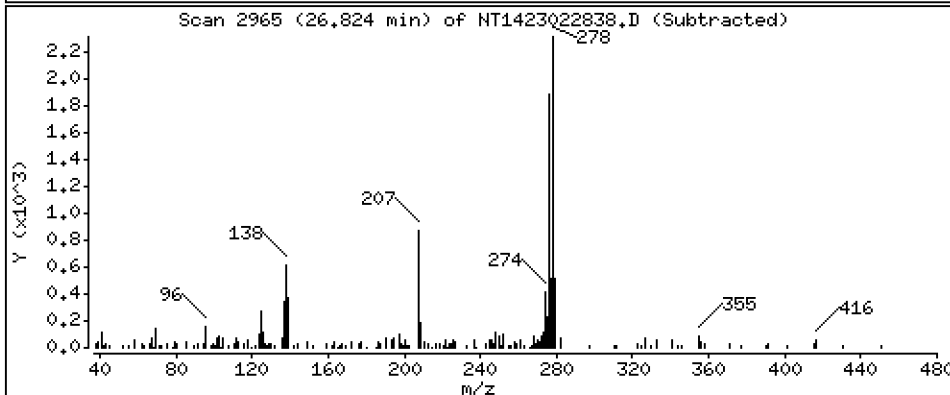
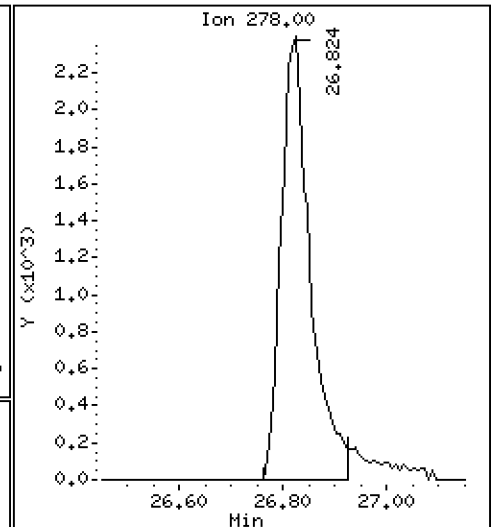
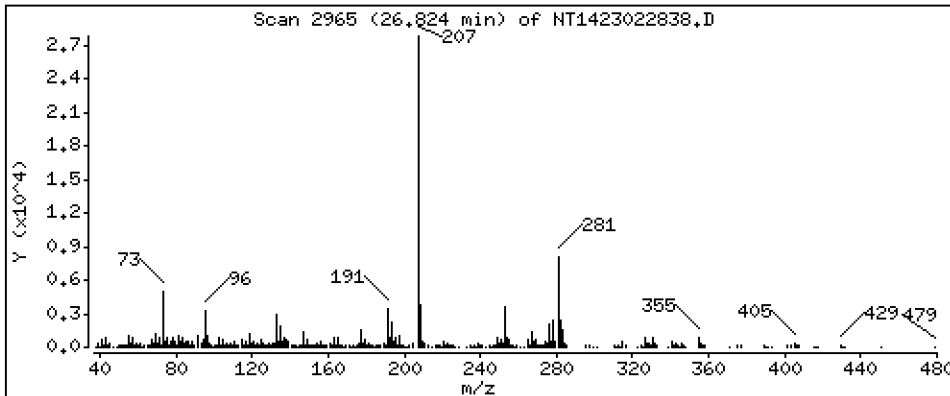
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 0,09853 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

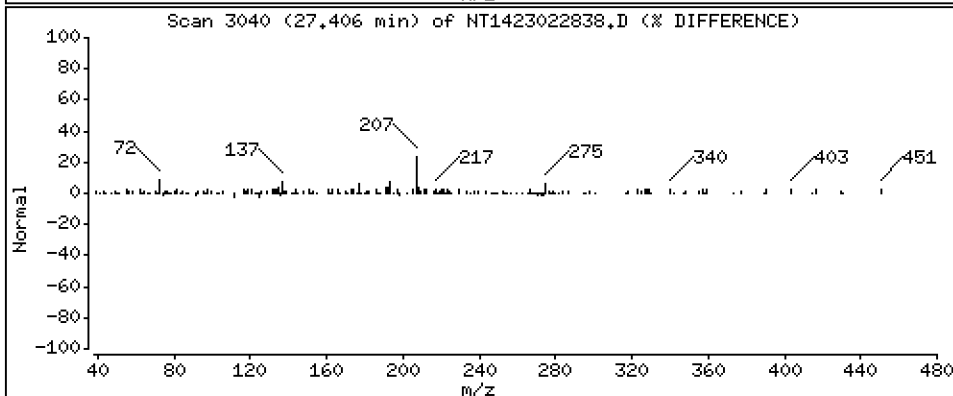
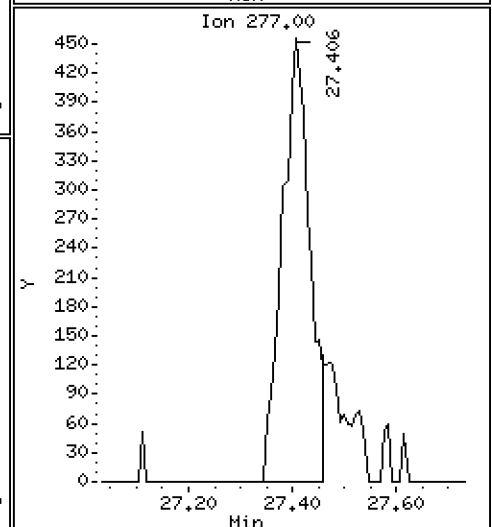
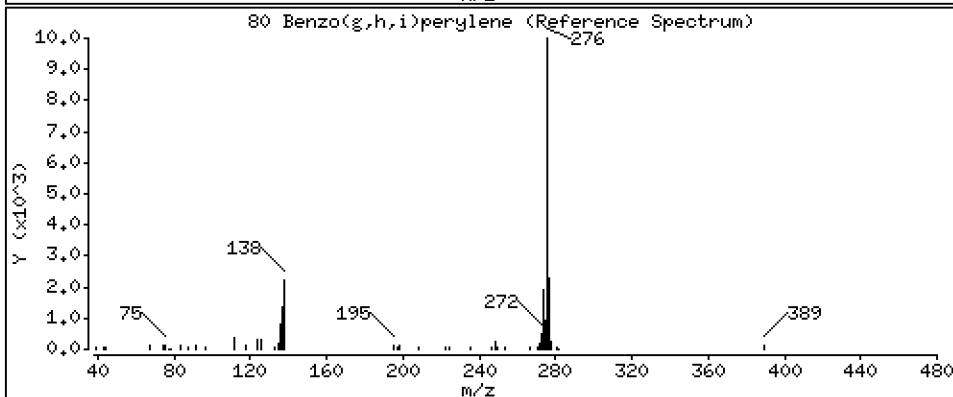
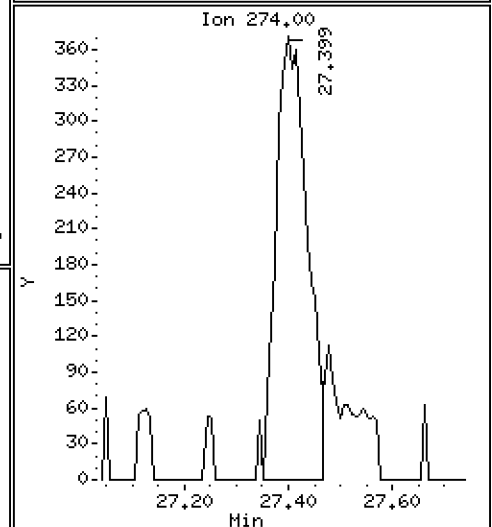
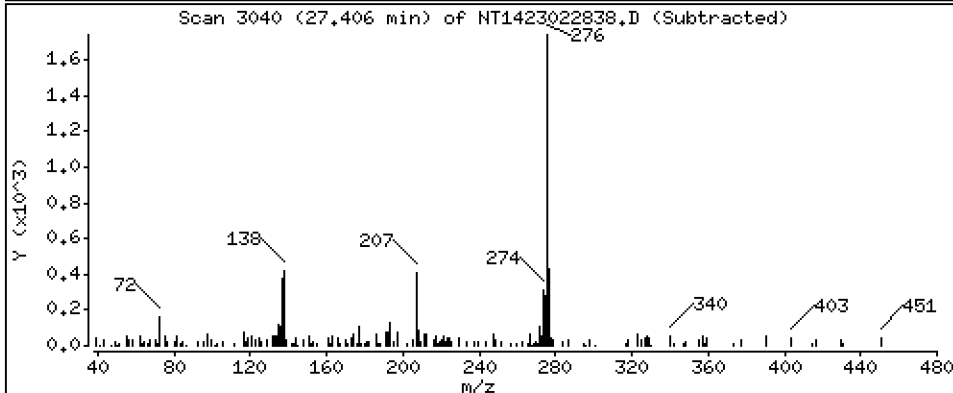
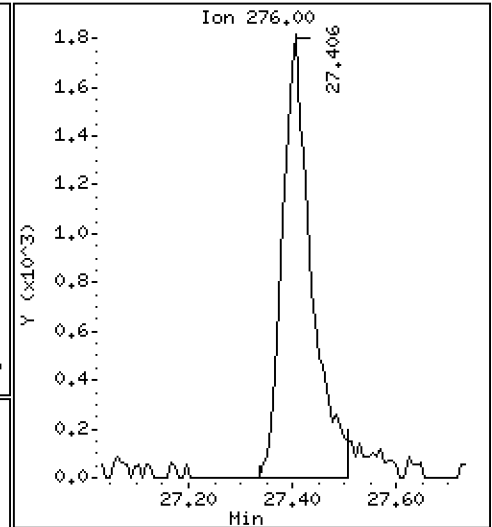
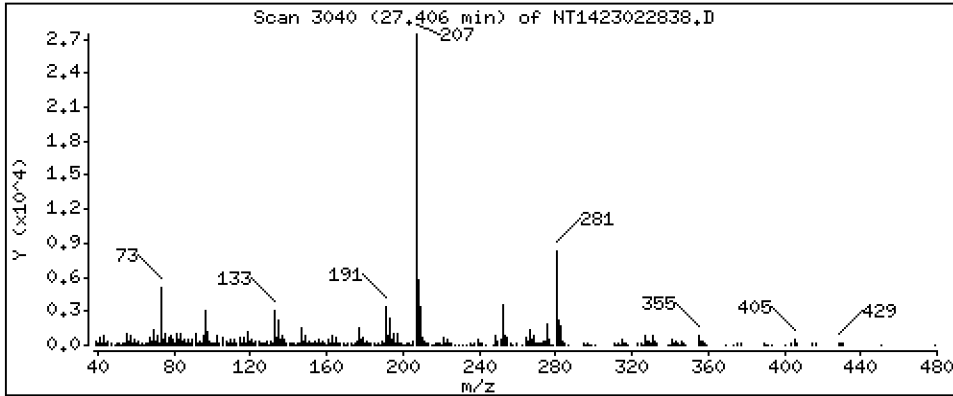
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 0,07140 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

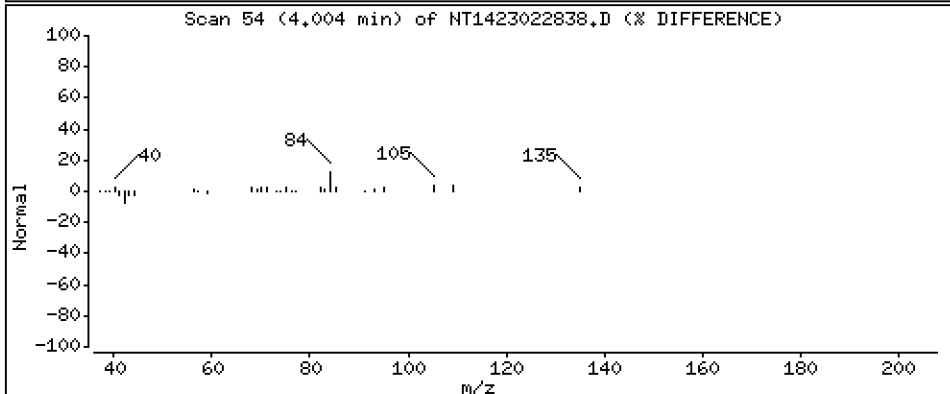
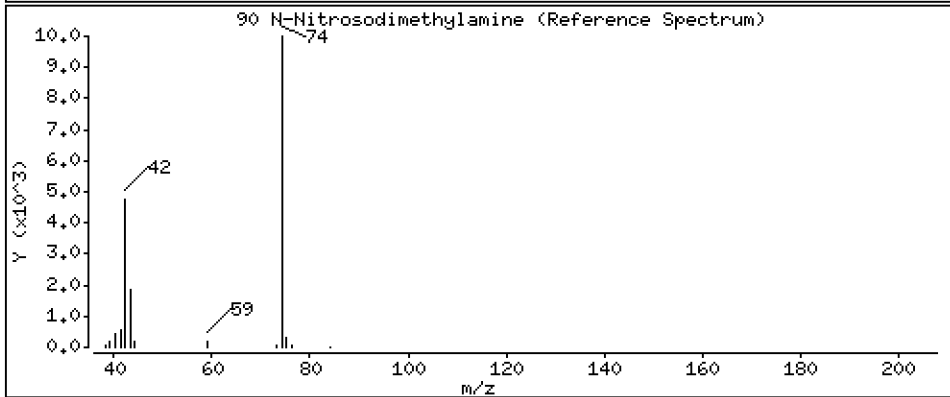
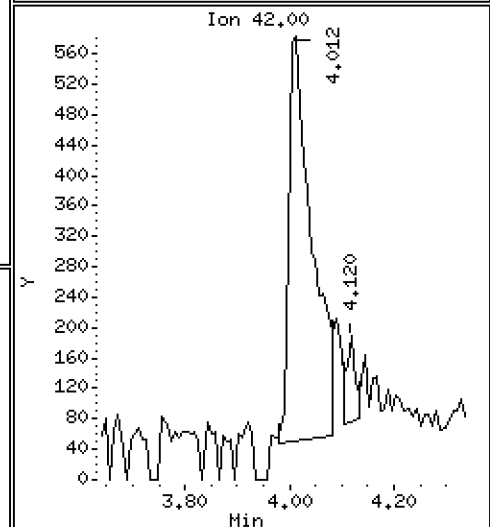
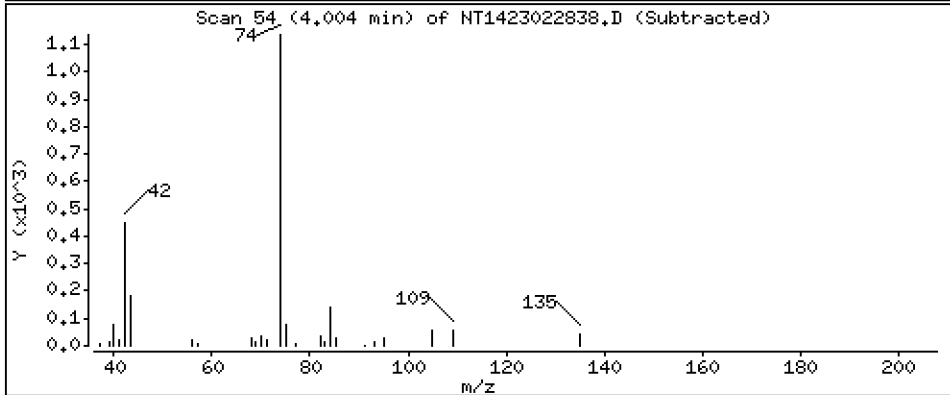
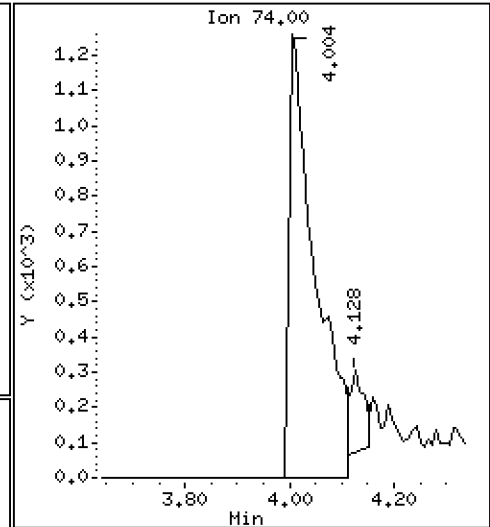
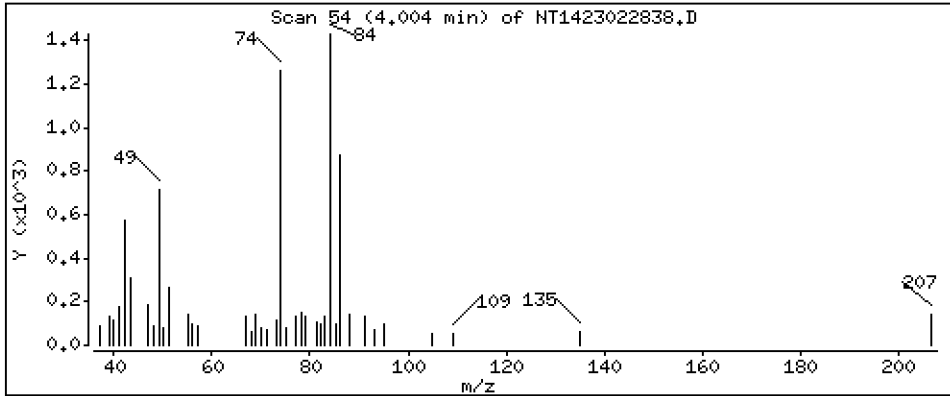
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

90 N-Nitrosodimethylamine

Concentration: 0,1925 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

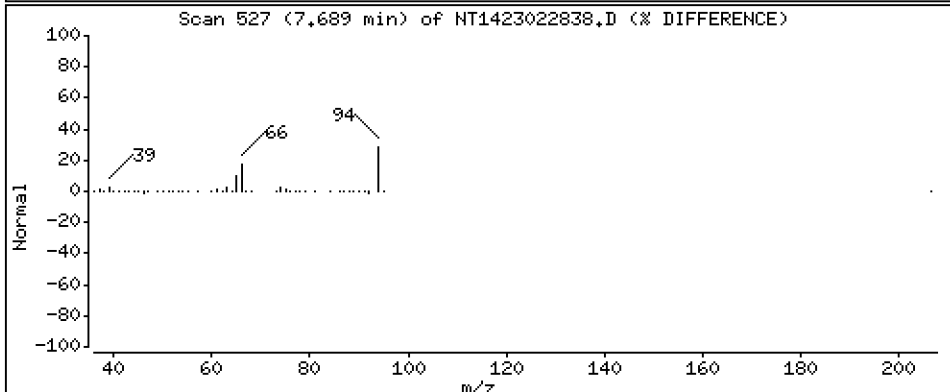
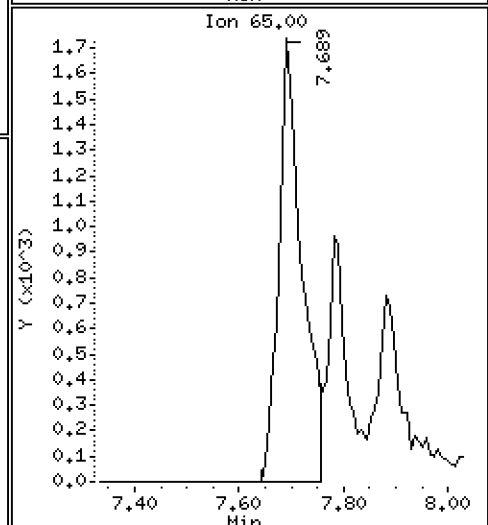
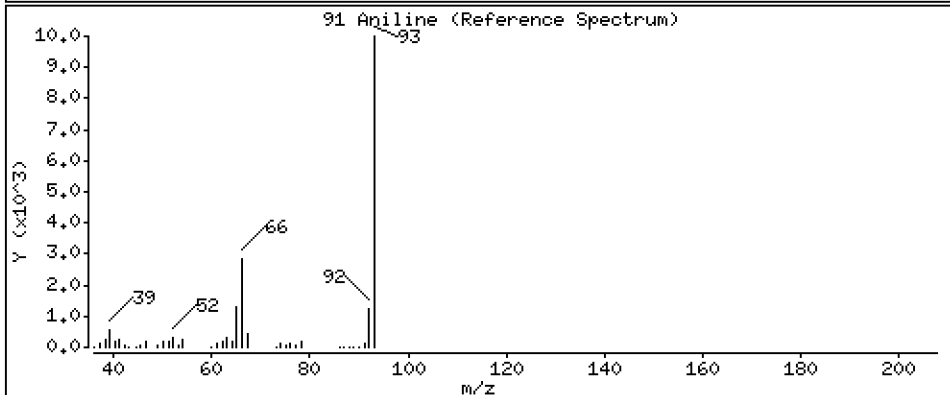
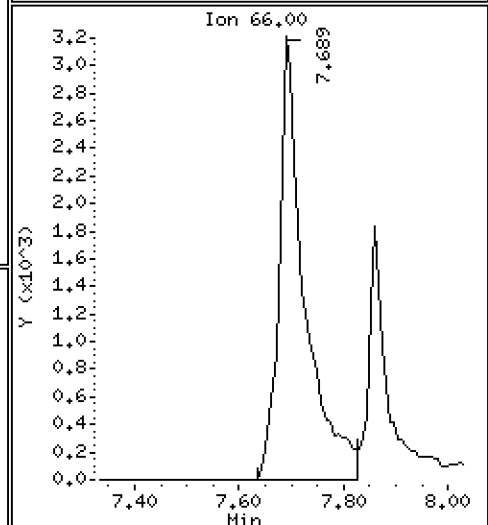
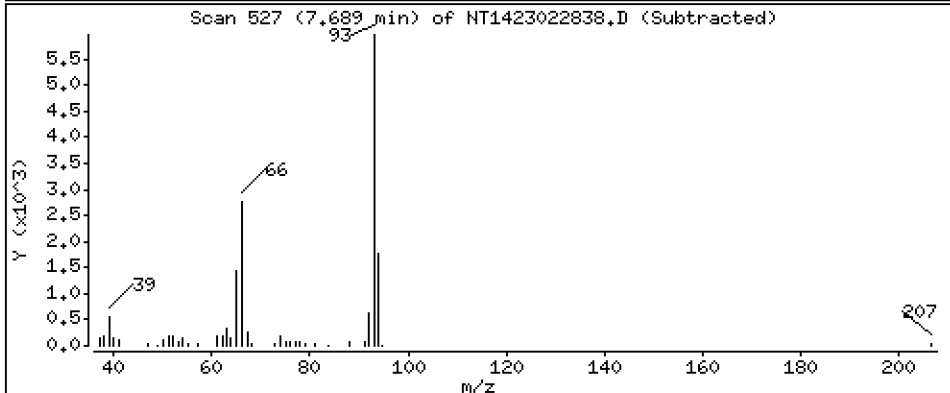
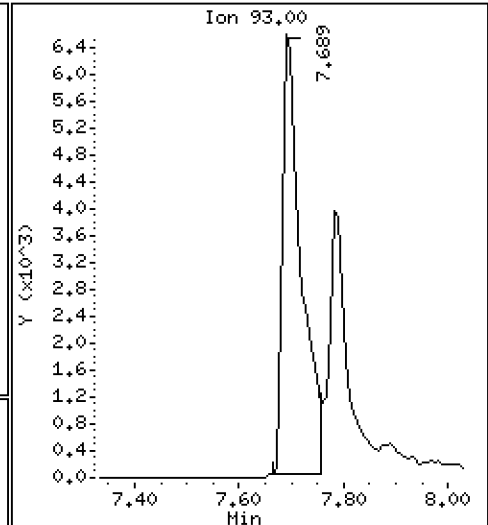
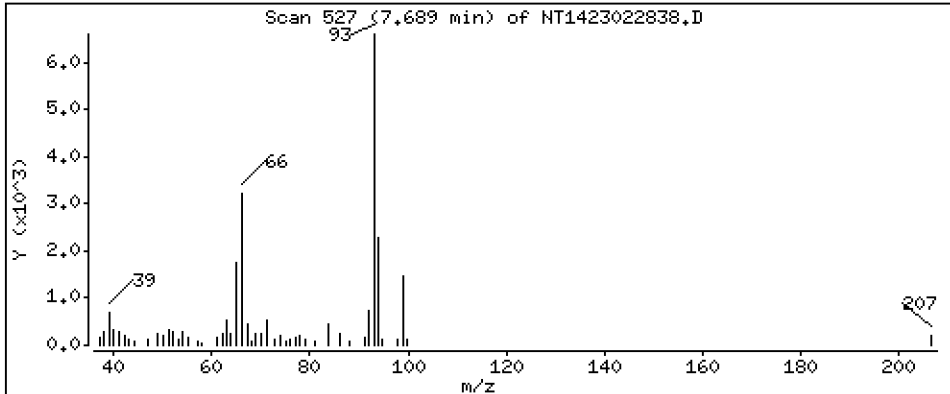
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

91 Aniline

Concentration: 0,3000 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

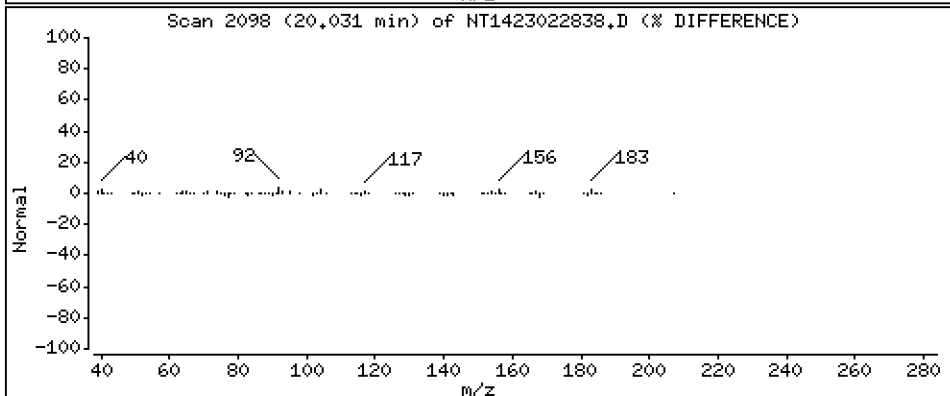
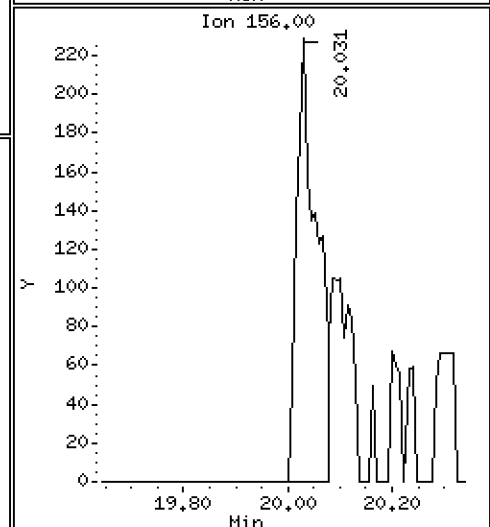
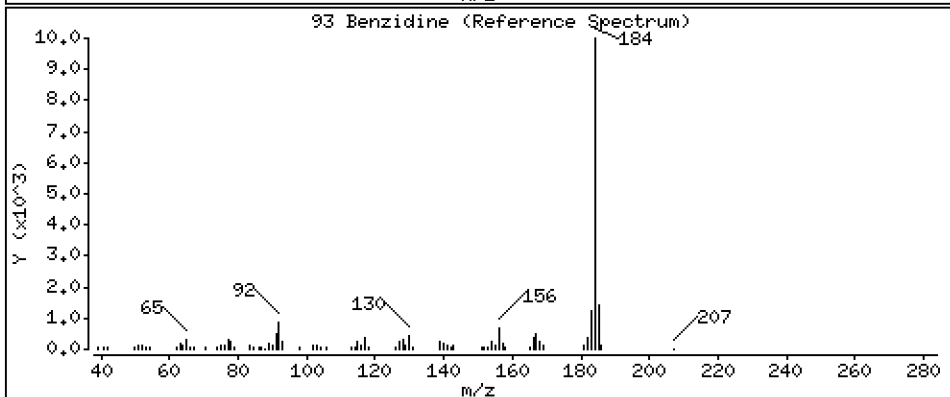
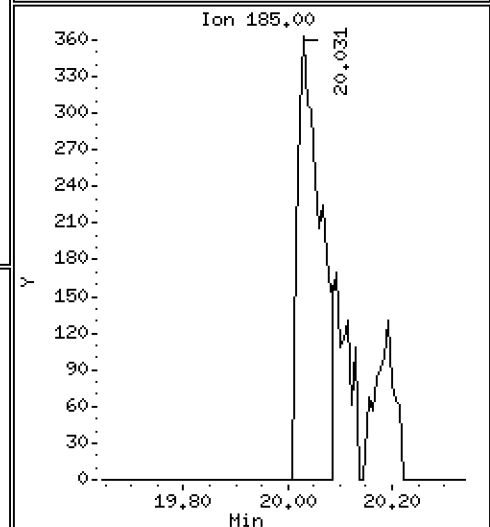
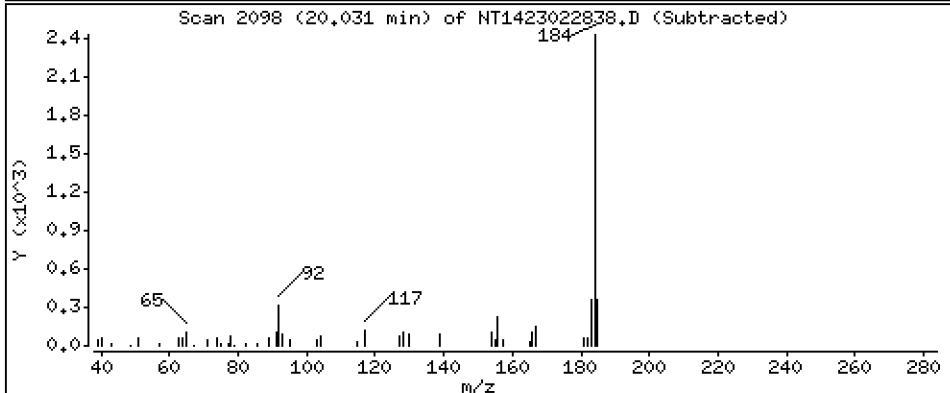
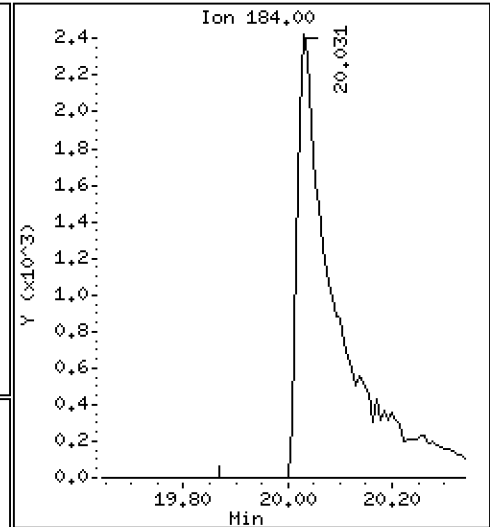
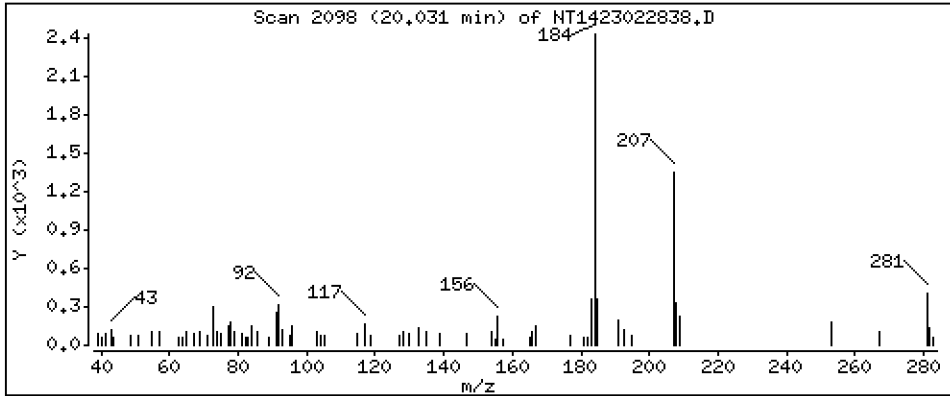
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

93 Benzidine

Concentration: 0,2721 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

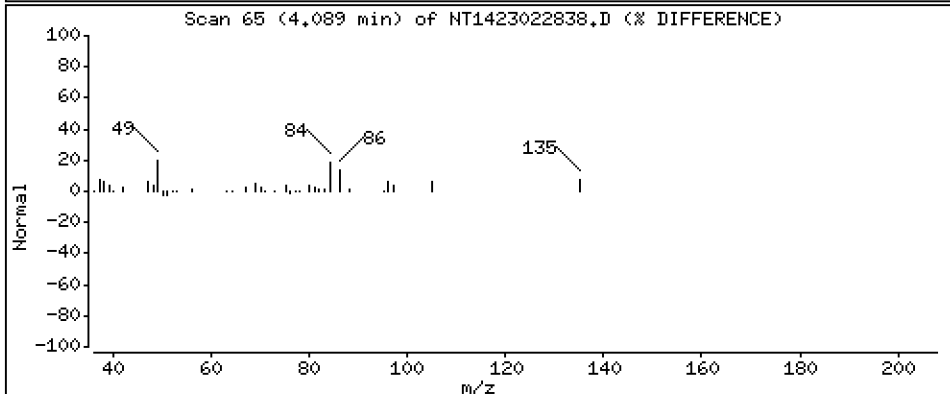
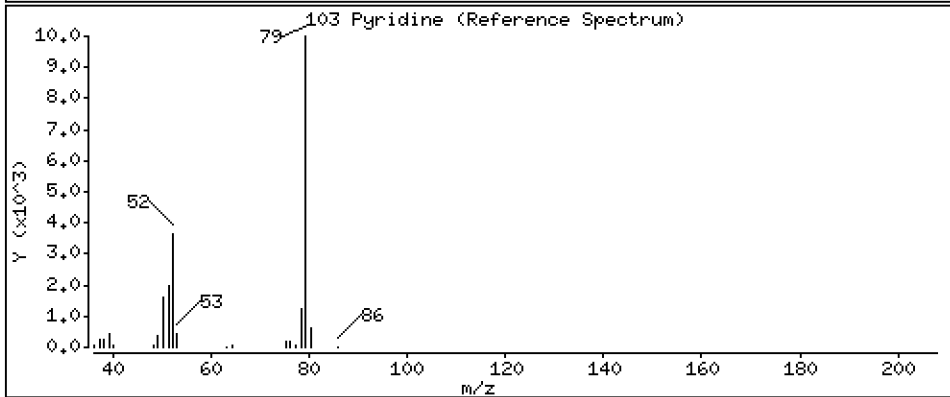
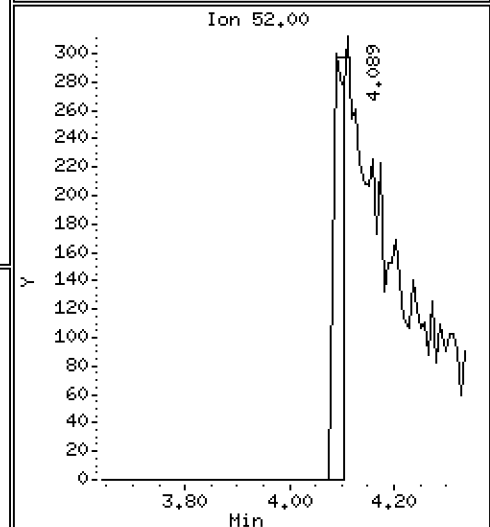
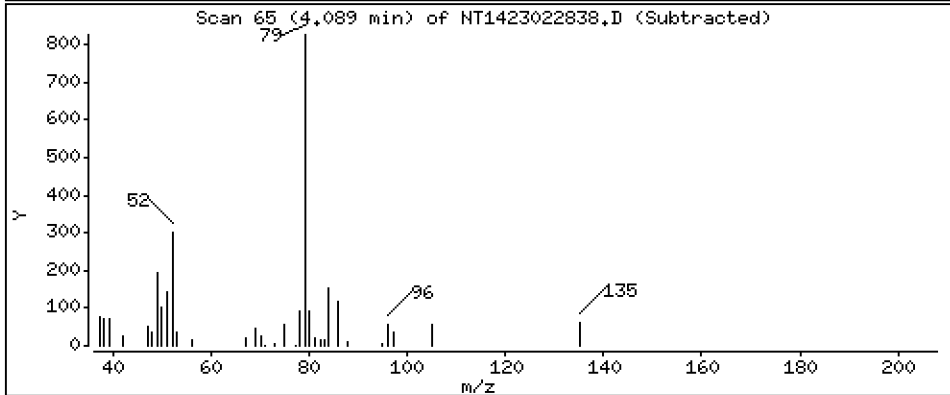
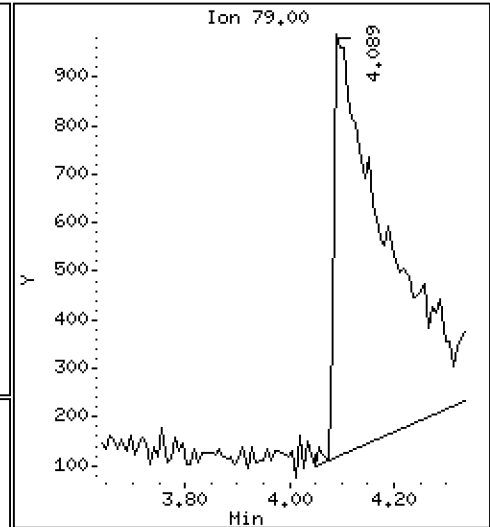
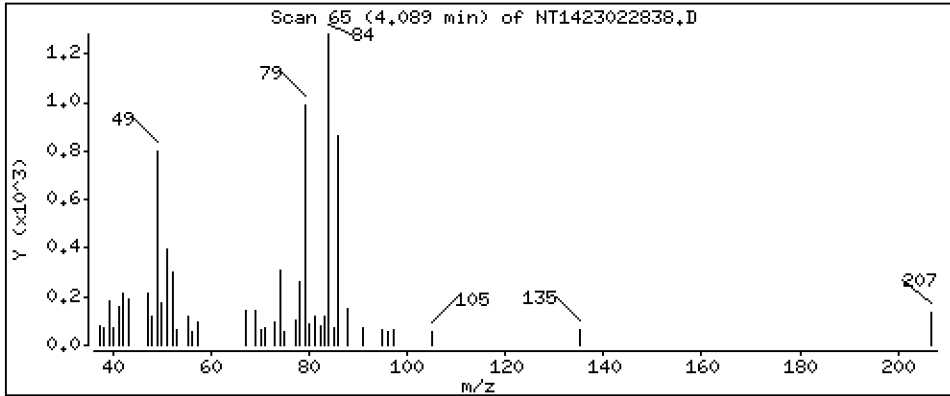
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

103 Pyridine

Concentration: 0,1132 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

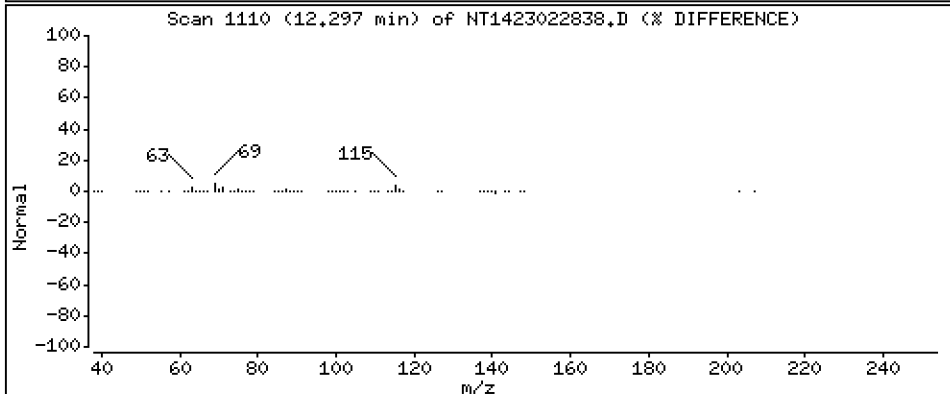
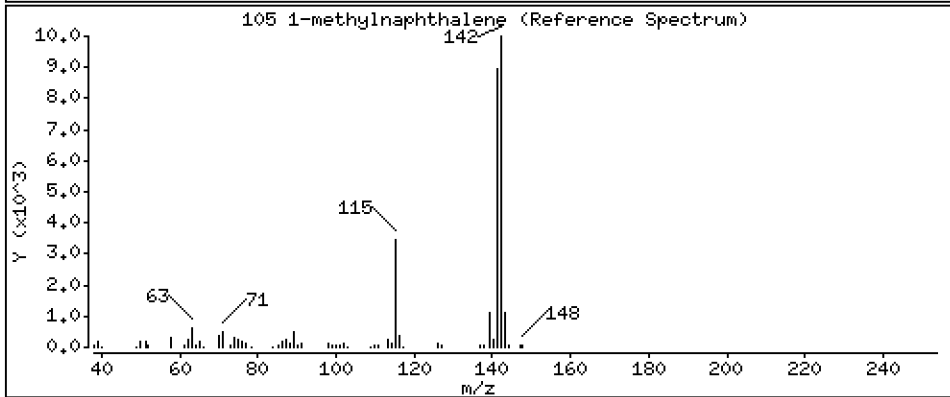
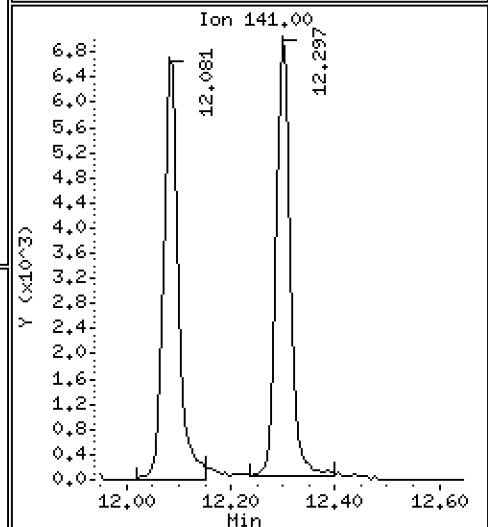
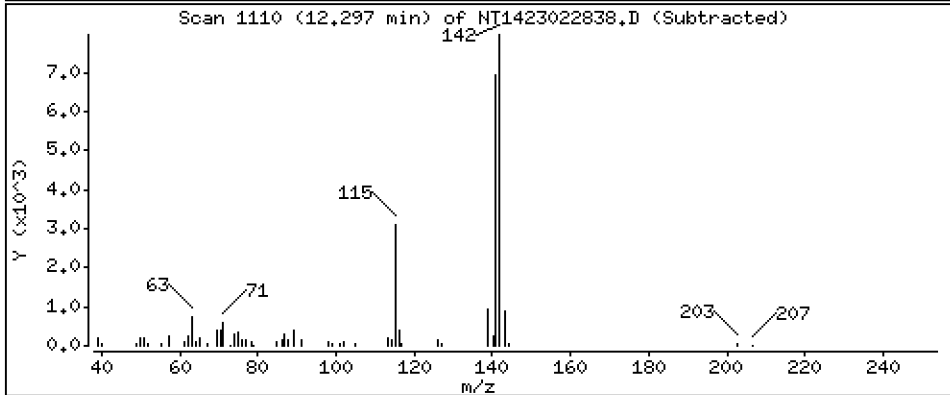
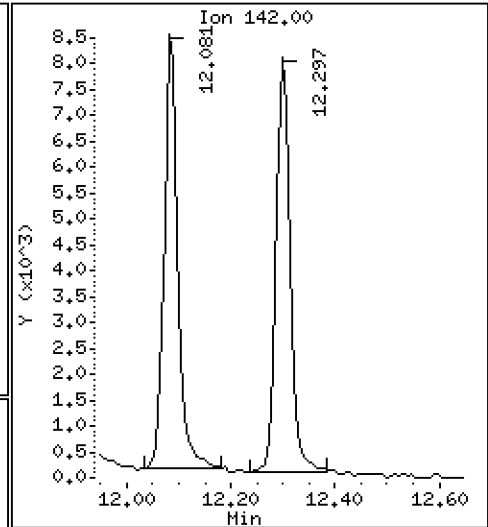
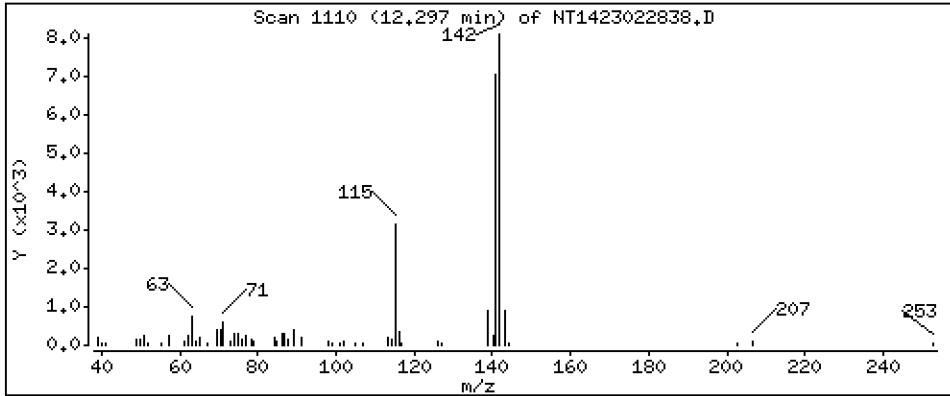
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 0,1946 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

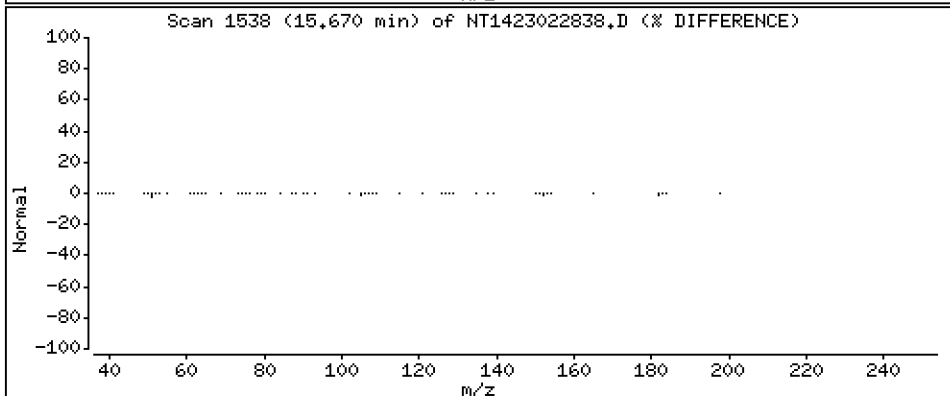
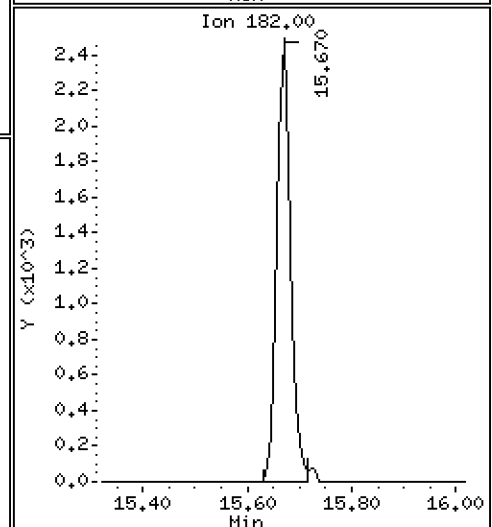
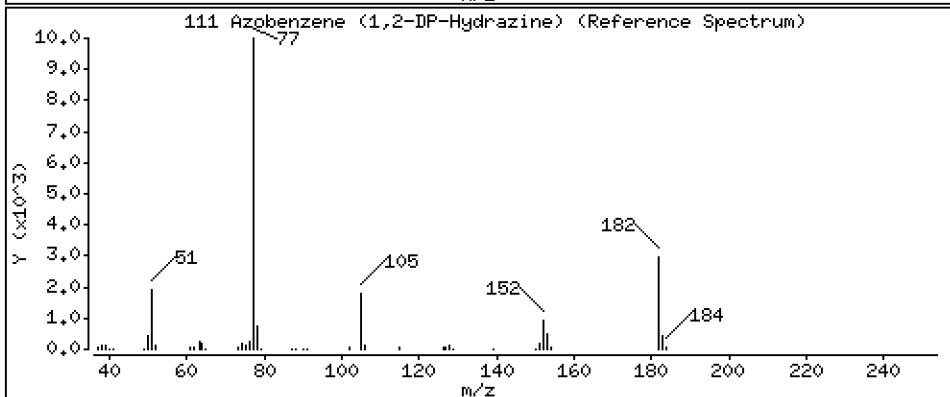
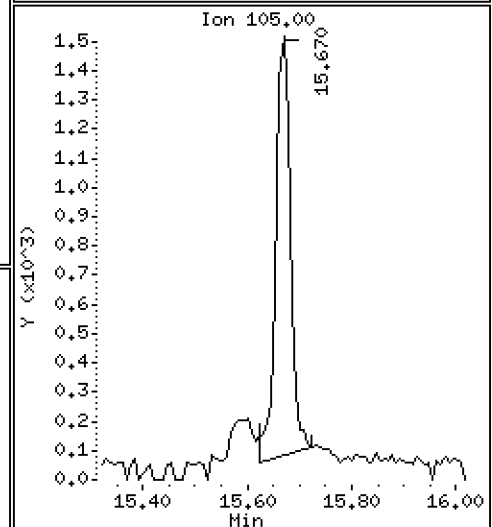
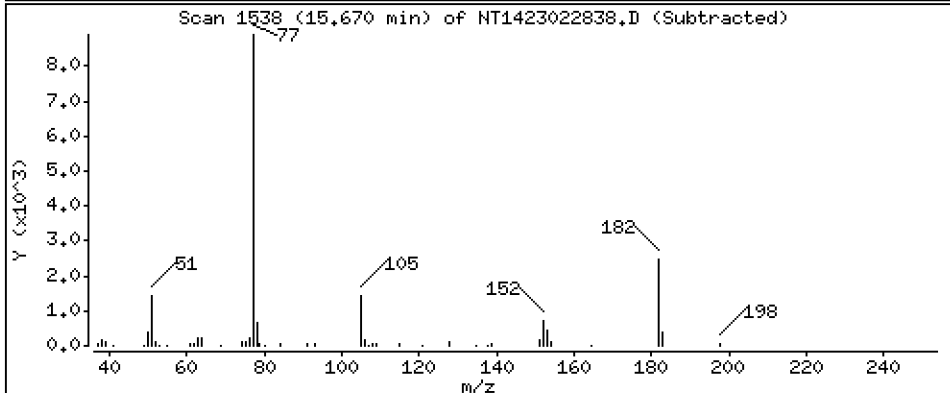
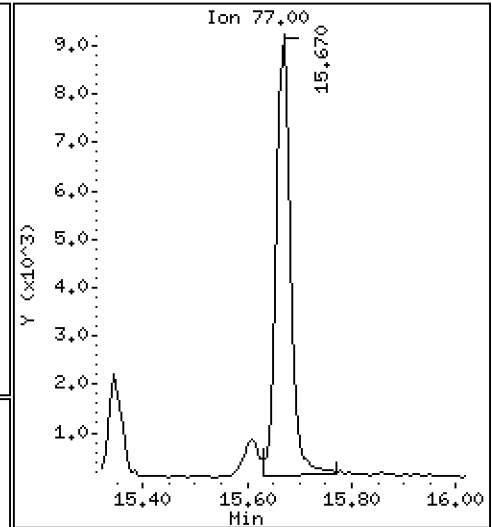
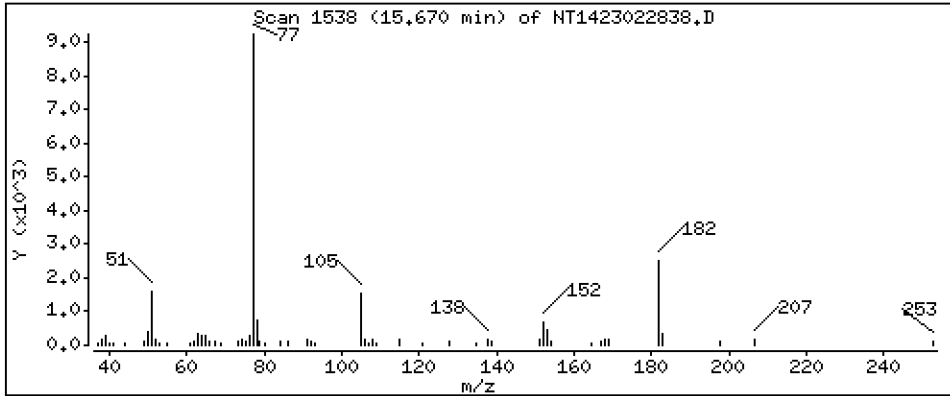
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 0,2134 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

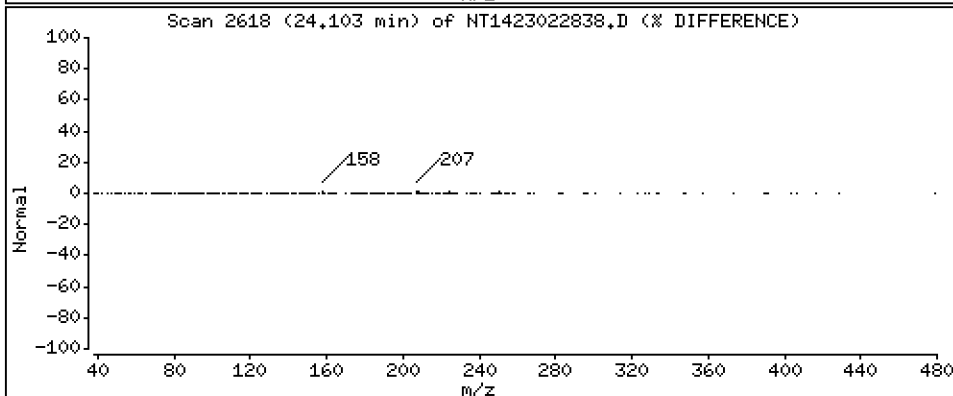
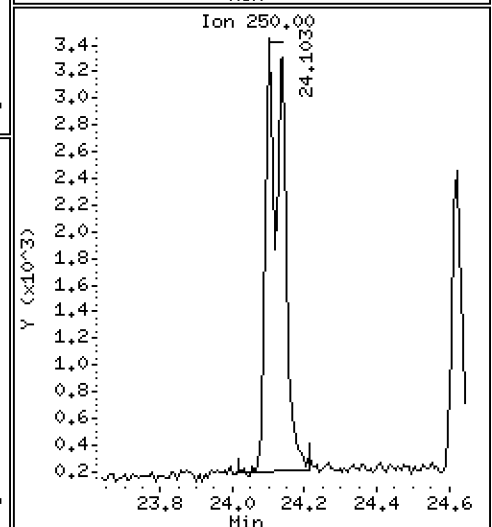
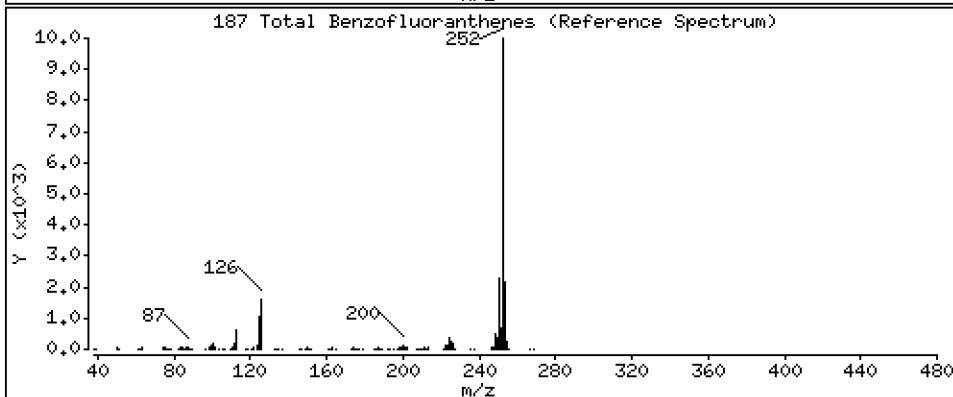
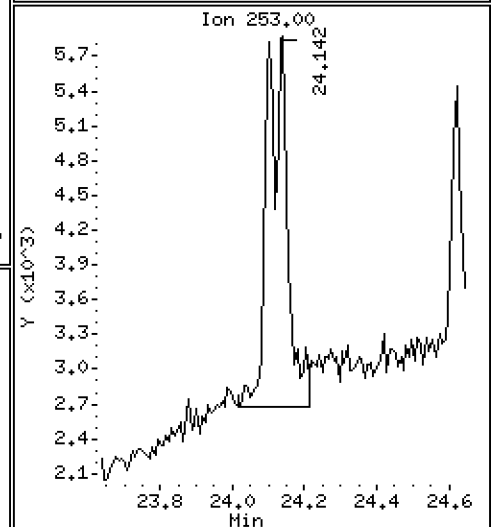
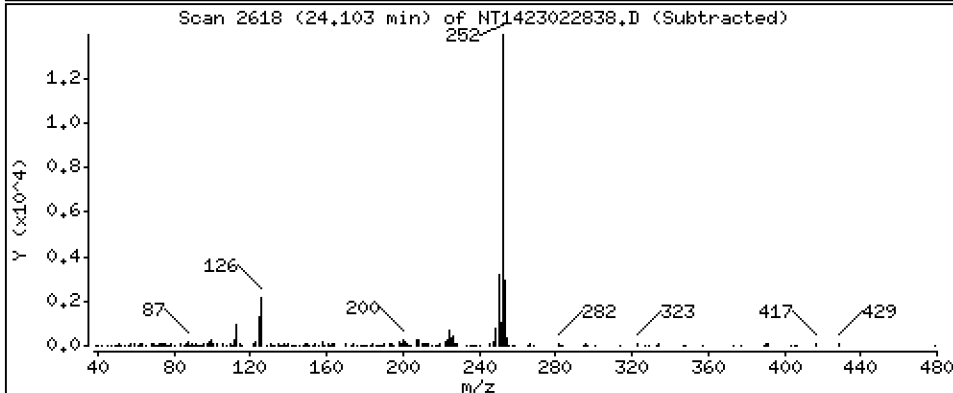
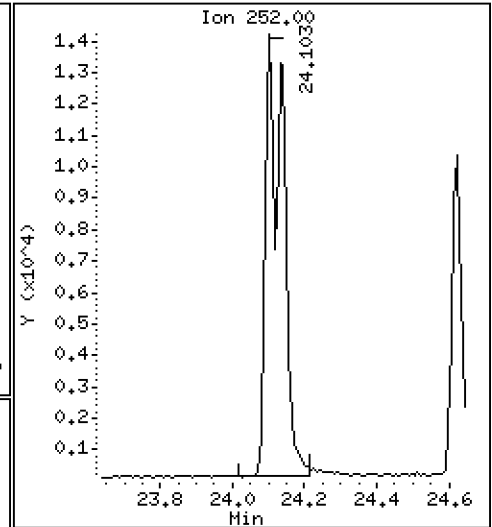
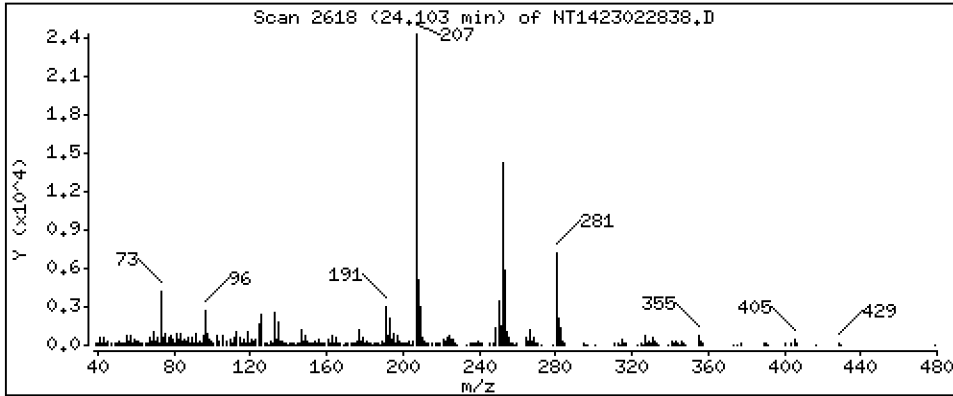
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 0,4714 ug/mL



Date : 01-MAR-2023 23:52

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV3

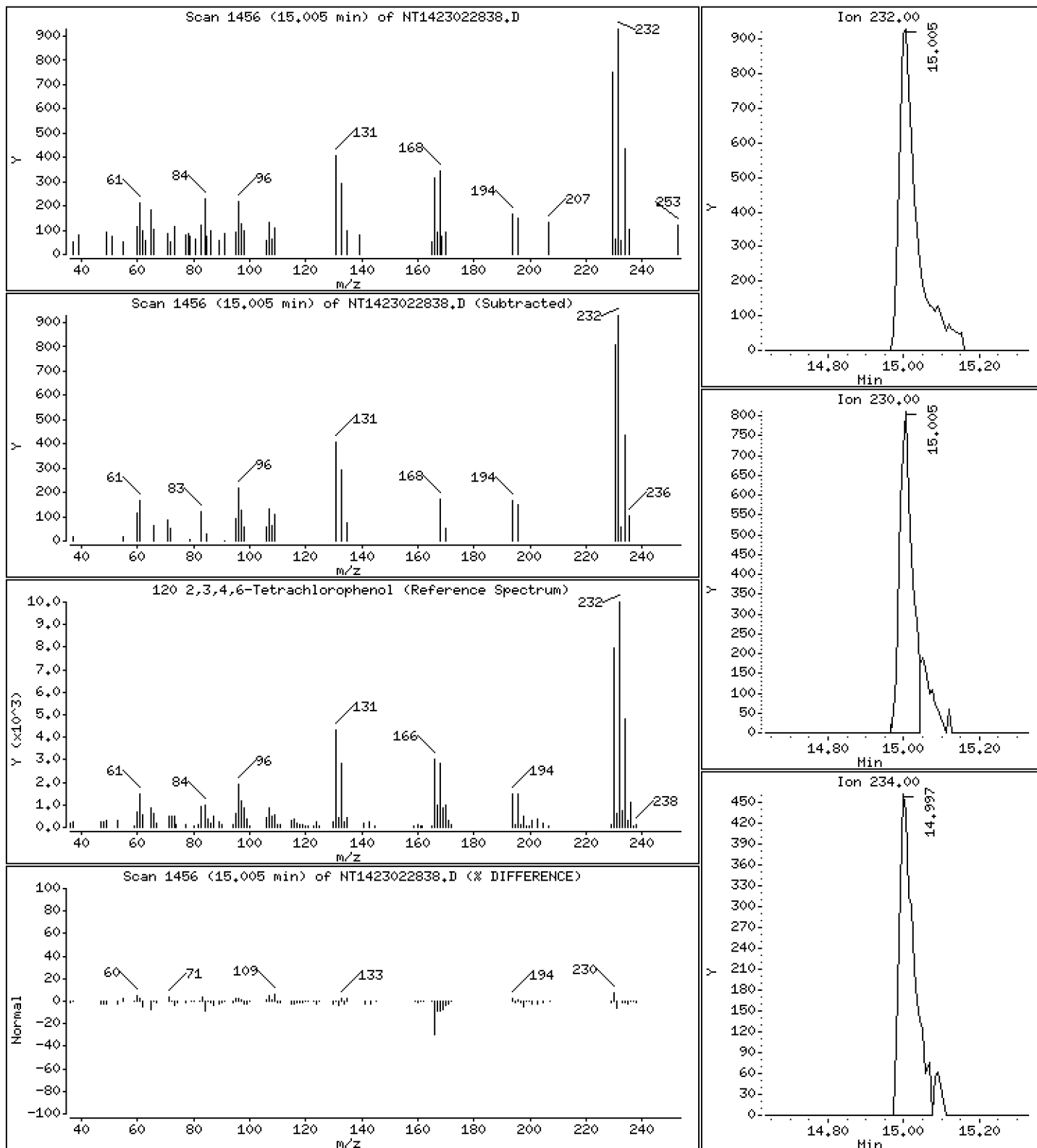
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

120 2,3,4,6-Tetrachlorophenol

Concentration: 0,1181 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230228.b\NT1423022838.D
 Lab Smp Id: SLB0374-LCV3
 Inj Date : 01-MAR-2023 23:52 MS Autotune Date: 17-MAY-2011 01:22
 Operator : JGR Inst ID: nt14.i
 Smp Info : SLB0374-LCV3
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt14.i\20230228.b\ABN.m
 Meth Date : 14-Mar-2023 08:52 van Quant Type: ISTD
 Cal Date : 28-FEB-2023 15:16 Cal File: NT1423022808.D
 Als bottle: 8
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: ICAL.sub
 Target Version: 4.14
 Processing Host: VANS-201906

| Compounds | QUANT | SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|---------------------------------|-------|-----|--------|--------|---------|----------|----------------|-------------|
| | | | | | | | ON-COLUMN | FINAL |
| | MASS | | | | | | (ug/mL) | (ug/mL) |
| \$ 1 2-Fluorophenol | 112 | | 6.073 | 6.050 | (0.741) | 9535 | 0.30742 | 0.3074 (M) |
| \$ 2 Phenol-d5 | 99 | | 7.657 | 7.642 | (0.934) | 12468 | 0.28313 | 0.2831 (M) |
| 3 Phenol | 94 | | 7.680 | 7.665 | (0.937) | 12239 | 0.23294 | 0.2329 (M) |
| \$ 5 2-Chlorophenol-d4 | 132 | | 7.858 | 7.850 | (0.958) | 10432 | 0.27860 | 0.2786 |
| 4 Bis(2-Chloroethyl)ether | 93 | | 7.781 | 7.781 | (0.949) | 8271 | 0.22291 | 0.2229 |
| 6 2-Chlorophenol | 128 | | 7.889 | 7.881 | (0.962) | 7013 | 0.18121 | 0.1812 |
| 7 1,3-Dichlorobenzene | 146 | | 8.129 | 8.129 | (0.991) | 8928 | 0.20933 | 0.2093 |
| * 8 1,4-Dichlorobenzene-d4 | 152 | | 8.199 | 8.199 | (1.000) | 114387 | 4.00000 | |
| 9 1,4-Dichlorobenzene | 146 | | 8.222 | 8.230 | (1.003) | 9015 | 0.21386 | 0.2139 |
| \$ 10 1,2-Dichlorobenzene-d4 | 152 | | 8.556 | 8.548 | (1.044) | 5408 | 0.19184 | 0.1918 |
| 12 1,2-Dichlorobenzene | 146 | | 8.579 | 8.571 | (1.046) | 8611 | 0.21304 | 0.2130 |
| 11 Benzyl alcohol | 108 | | 8.633 | 8.509 | (1.053) | 2158 | 0.09424 | 0.09424 (M) |
| 14 2,2'-oxybis(1-Chloropropane) | 121 | | 8.796 | 8.789 | (1.073) | 2290 | 0.21008 | 0.2101 |
| 13 2-Methylphenol | 108 | | 8.765 | 8.750 | (1.069) | 5703 | 0.17181 | 0.1718 |
| 17 Hexachloroethane | 117 | | 9.153 | 9.154 | (1.116) | 2329 | 0.14712 | 0.1471 |
| 16 N-Nitroso-di-n-propylamine | 70 | | 9.053 | 9.053 | (1.104) | 5267 | 0.20840 | 0.2084 |
| 15 4-Methylphenol | 108 | | 9.053 | 9.022 | (1.104) | 4329 | 0.11189 | 0.1119 |
| \$ 18 Nitrobenzene-d5 | 82 | | 9.293 | 9.285 | (0.873) | 7709 | 0.19460 | 0.1946 |
| 19 Nitrobenzene | 77 | | 9.332 | 9.324 | (0.876) | 7609 | 0.19988 | 0.1999 |
| 20 Isophorone | 82 | | 9.774 | 9.774 | (0.918) | 9393 | 0.15785 | 0.1578 |
| 21 2-Nitrophenol | 139 | | 9.960 | 9.945 | (0.935) | 3047 | 0.15467 | 0.1547 (M) |
| 22 2,4-Dimethylphenol | 107 | | 10.054 | 10.046 | (0.944) | 13974 | 0.40266 | 0.4027 |
| 23 Bis(2-Chloroethoxy)methane | 93 | | 10.232 | 10.224 | (0.961) | 7016 | 0.18332 | 0.1833 |
| 24 Benzoic acid | 105 | | 11.360 | 10.364 | (1.067) | 1124 | 0.08173 | 0.08173 (M) |
| 25 2,4-Dichlorophenol | 162 | | 10.433 | 10.410 | (0.980) | 11246 | 0.31939 | 0.3194 (M) |
| 26 1,2,4-Trichlorobenzene | 180 | | 10.572 | 10.572 | (0.993) | 7820 | 0.19938 | 0.1994 |
| * 27 Naphthalene-d8 | 136 | | 10.649 | 10.649 | (1.000) | 404965 | 4.00000 | |
| 28 Naphthalene | 128 | | 10.688 | 10.688 | (1.004) | 23285 | 0.21556 | 0.2156 |
| 29 4-Chloroaniline | 127 | | 10.873 | 10.850 | (1.021) | 16061 | 0.34762 | 0.3476 (M) |
| 30 Hexachlorobutadiene | 225 | | 11.066 | 11.066 | (1.039) | 4255 | 0.17779 | 0.1778 |
| 31 4-Chloro-3-methylphenol | 107 | | 11.871 | 11.848 | (1.115) | 10175 | 0.32573 | 0.3257 (M) |
| 32 2-Methylnaphthalene | 142 | | 12.080 | 12.080 | (1.134) | 15399 | 0.19251 | 0.1925 |
| 33 Hexachlorocyclopentadiene | 237 | | 12.320 | 12.545 | (0.866) | 68 | 0.00285 | 0.002849 |

| Compounds | QUANT SIG | | | | | CONCENTRATIONS | | |
|-----------------------------------|-----------|------------------------|--------|---------|----------|----------------------|------------------|--|
| | MASS | RT | EXP RT | REL RT | RESPONSE | ON-COLUMN (ug/mL) | FINAL (ug/mL) | |
| 34 2,4,6-Trichlorophenol | 196 | 12.730 | 12.723 | (0.895) | 7025 | 0.31610 | 0.3161 | |
| 35 2,4,5-Trichlorophenol | 196 | 12.831 | 12.800 | (0.902) | 8318 | 0.34616 | 0.3462 (M) | |
| § 36 2-Fluorobiphenyl | 172 | 12.877 | 12.877 | (0.905) | 18353 | 0.20726 | 0.2073 | |
| 37 2-Chloronaphthalene | 162 | 13.063 | 13.063 | (0.918) | 13983 | 0.19699 | 0.1970 | |
| 38 2-Nitroaniline | 65 | 13.373 | 13.349 | (0.940) | 6124 | 0.33079 | 0.3308 | |
| 39 Dimethylphthalate | 163 | 13.798 | 13.798 | (0.970) | 14994 | 0.20953 | 0.2095 | |
| 40 Acenaphthylene | 152 | 13.922 | 13.922 | (0.978) | 22974 | 0.22057 | 0.2206 | |
| 41 2,6-Dinitrotoluene | 165 | 13.930 | 13.930 | (0.979) | 6086 | 0.36293 | 0.3629 | |
| * 42 Acenaphthene-d10 | 164 | 14.232 | 14.239 | (1.000) | 227510 | 4.00000 | | |
| 43 3-Nitroaniline | 138 | 14.247 | 14.208 | (1.001) | 5035 | 0.29295 | 0.2929 (M) | |
| 44 Acenaphthene | 153 | 14.301 | 14.301 | (1.005) | 14164 | 0.21239 | 0.2124 | |
| 45 2,4-Dinitrophenol | 184 | Compound Not Detected. | | | | | | |
| 46 Dibenzofuran | 168 | 14.634 | 14.634 | (1.028) | 21018 | 0.19807 | 0.1981 | |
| 47 4-Nitrophenol | 109 | 14.842 | 14.587 | (1.043) | 1763 | 0.20771 | 0.2077 (M) | |
| 48 2,4-Dinitrotoluene | 165 | 14.734 | 14.726 | (1.035) | 6423 | 0.26606 | 0.2661 | |
| 50 Diethylphthalate | 149 | 15.244 | 15.252 | (1.071) | 14200 | 0.21220 | 0.2122 | |
| 49 Fluorene | 166 | 15.337 | 15.337 | (1.078) | 19025 | 0.21279 | 0.2128 | |
| 51 4-Chlorophenyl-phenylether | 204 | 15.345 | 15.345 | (1.078) | 9356 | 0.19668 | 0.1967 | |
| 52 4-Nitroaniline | 138 | 15.530 | 15.469 | (1.091) | 4597 | 0.26982 | 0.2698 (M) | |
| 53 4,6-Dinitro-2-methylphenol | 198 | 15.577 | 15.553 | (0.903) | 1931 | 0.13939 | 0.1394 (M) | |
| 54 N-Nitrosodiphenylamine | 169 | 15.607 | 15.607 | (0.905) | 11037 | 0.21070 | 0.2107 | |
| § 55 2,4,6-Tribromophenol | 330 | 15.877 | 15.870 | (1.116) | 2484 | 0.20332 | 0.2033 (M) | |
| 56 4-Bromophenyl-phenylether | 248 | 16.340 | 16.340 | (0.948) | 4483 | 0.19467 | 0.1947 | |
| 57 Hexachlorobenzene | 284 | 16.626 | 16.634 | (0.964) | 5394 | 0.21304 | 0.2130 | |
| 58 Pentachlorophenol | 266 | 17.044 | 17.005 | (0.988) | 1337 | 0.11229 | 0.1123 (M) | |
| * 59 Phenanthrene-d10 | 188 | 17.245 | 17.245 | (1.000) | 416834 | 4.00000 | | |
| 60 Phenanthrene | 178 | 17.291 | 17.291 | (1.003) | 22224 | 0.20042 | 0.2004 | |
| 61 Anthracene | 178 | 17.384 | 17.384 | (1.008) | 21080 | 0.20109 | 0.2011 | |
| 62 Carbazole | 167 | 17.748 | 17.732 | (1.029) | 16859 | 0.18350 | 0.1835 | |
| 63 Di-n-butylphthalate | 149 | 18.591 | 18.591 | (1.078) | 21721 | 0.18302 | 0.1830 | |
| 64 Fluoranthene | 202 | 19.713 | 19.713 | (0.882) | 23739 | 0.18367 | 0.1837 | |
| 65 Pyrene | 202 | 20.139 | 20.139 | (0.901) | 25001 | 0.18347 | 0.1835 | |
| § 66 Terphenyl-d14 | 244 | 20.471 | 20.471 | (0.916) | 18974 | 0.18084 | 0.1808 | |
| 67 Butylbenzylphthalate | 149 | 21.439 | 21.439 | (0.959) | 9570 | 0.19839 | 0.1984 | |
| 68 Benzo(a)anthracene | 228 | 22.337 | 22.337 | (0.999) | 25252 | 0.22128 | 0.2213 | |
| * 69 Chrysene-d12 | 240 | 22.361 | 22.368 | (1.000) | 340670 | 4.00000 | | |
| 70 3,3'-Dichlorobenzidine | 252 | 22.330 | 22.330 | (0.999) | 23445 | 0.71941 | 0.7194 | |
| 71 Chrysene | 228 | 22.407 | 22.415 | (1.002) | 23584 | 0.21501 | 0.2150 | |
| 72 bis(2-Ethylhexyl)phthalate | 149 | 22.492 | 22.492 | (0.958) | 13105 | 0.17691 | 0.1769 | |
| * 134 Di-n-octylphthalate-d4 | 153 | 23.468 | 23.476 | (1.000) | 485089 | 4.00000 | | |
| 73 Di-n-octylphthalate | 149 | 23.483 | 23.483 | (1.001) | 25909 | 0.20285 | 0.2029 | |
| 74 Benzo(b)fluoranthene | 252 | 24.103 | 24.103 | (0.976) | 23233 | 0.22278 | 0.2228 | |
| 75 Benzo(k)fluoranthene | 252 | 24.134 | 24.141 | (0.977) | 27728 | 0.24645 | 0.2464 | |
| 76 Benzo(a)pyrene | 252 | 24.621 | 24.621 | (0.997) | 19040 | 0.21280 | 0.2128 | |
| * 77 Perylene-d12 | 264 | 24.707 | 24.714 | (1.000) | 315652 | 4.00000 | | |
| 78 Indeno(1,2,3-cd)pyrene | 276 | 26.808 | 26.784 | (1.085) | 10163 | 0.09023 | 0.09023 | |
| 79 Dibenzo(a,h)anthracene | 278 | 26.823 | 26.800 | (1.086) | 9425 | 0.09853 | 0.09853 | |
| 80 Benzo(g,h,i)perylene | 276 | 27.406 | 27.383 | (1.109) | 7014 | 0.07140 | 0.07140 | |
| 90 N-Nitrosodimethylamine | 74 | 4.004 | 3.988 | (0.488) | 4536 | 0.19252 | 0.1925 | |
| 91 Aniline | 93 | 7.688 | 7.681 | (0.938) | 16293 | 0.29998 | 0.3000 | |
| 93 Benzidine | 184 | 20.030 | 19.992 | (0.896) | 15043 | 0.27208 | 0.2721 (M) | |
| 103 Pyridine | 79 | 4.089 | 3.988 | (0.499) | 7869 | 0.11320 | 0.1132 (M) | |
| 105 1-methylnaphthalene | 142 | 12.297 | 12.297 | (1.155) | 14333 | 0.19463 | 0.1946 | |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77 | 15.669 | 15.669 | (1.101) | 16398 | 0.21345 | 0.2134 | |

| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|-------------------------------|-----------|--------|--------|---------|----------|----------------------|------------------|
| | | | | | | ON-COLUMN (ug/mL) | FINAL (ug/mL) |
| 187 Total Benzofluoranthenes | 252 | 24.103 | 24.141 | (0.976) | 48086 | 0.47135 | 0.4714 |
| 120 2,3,4,6-Tetrachlorophenol | 232 | 15.005 | 14.981 | (1.054) | 3021 | 0.11806 | 0.1181 (M) |

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 01-MAR-2023
 Lab File ID: NT1423022838.D Calibration Time: 22:40
 Lab Smp Id: SLB0374-LCV3
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: JGR
 Method File: \\target\share\chem3\nt14.i\20230228.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|--------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 115350 | 57675 | 230700 | 114387 | -0.83 |
| 27 Naphthalene-d8 | 415895 | 207948 | 831790 | 404965 | -2.63 |
| 42 Acenaphthene-d10 | 246020 | 123010 | 492040 | 227510 | -7.52 |
| 59 Phenanthrene-d10 | 448598 | 224299 | 897196 | 416834 | -7.08 |
| 69 Chrysene-d12 | 373978 | 186989 | 747956 | 340670 | -8.91 |
| 134 Di-n-octylphthala | 541572 | 270786 | 1083144 | 485089 | -10.43 |
| 77 Perylene-d12 | 357819 | 178910 | 715638 | 315652 | -11.78 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 8.20 | 7.70 | 8.70 | 8.20 | -0.00 |
| 27 Naphthalene-d8 | 10.65 | 10.15 | 11.15 | 10.65 | -0.00 |
| 42 Acenaphthene-d10 | 14.24 | 13.74 | 14.74 | 14.23 | -0.05 |
| 59 Phenanthrene-d10 | 17.25 | 16.75 | 17.75 | 17.25 | -0.00 |
| 69 Chrysene-d12 | 22.37 | 21.87 | 22.87 | 22.36 | -0.03 |
| 134 Di-n-octylphthala | 23.48 | 22.98 | 23.98 | 23.47 | -0.03 |
| 77 Perylene-d12 | 24.71 | 24.21 | 25.21 | 24.71 | -0.03 |

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

REVIEW SUMMARY FOR FILE - NT1423022838.D

Lab ID: SLB0374-LCV3
nt14.i, ABN.m, 01-MAR-2023 23:52

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT | CCV RRT | DELTA | COMPOUND |
|-------|---------|---------|---------------------------|
| 1.053 | 1.038 | 0.0151 | Benzyl alcohol |
| 1.067 | 0.973 | 0.0936 | Benzoic acid |
| 0.866 | 0.881 | -0.0153 | Hexachlorocyclopentadiene |
| 1.043 | 1.024 | 0.0185 | 4-Nitrophenol |
| 0.499 | 0.486 | 0.0122 | Pyridine |

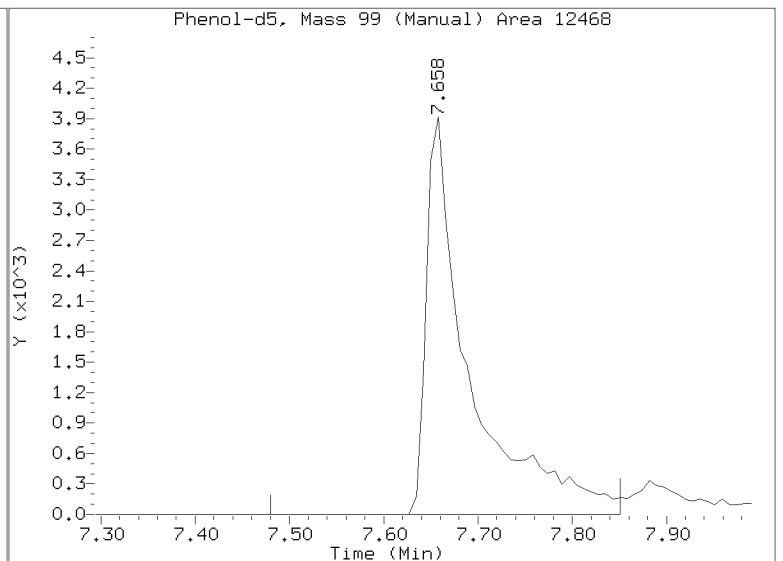
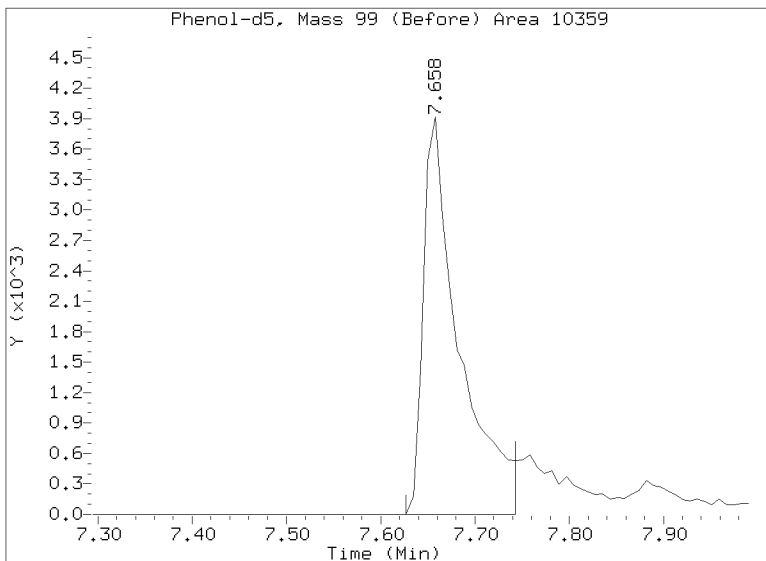
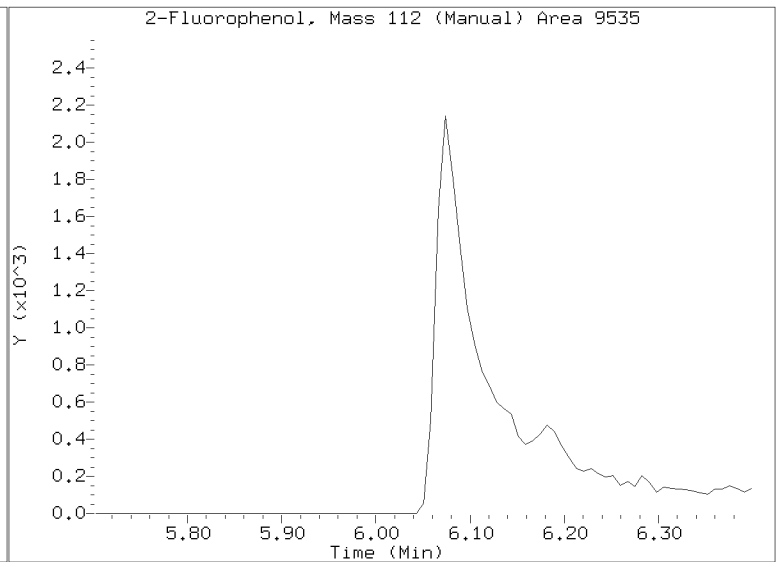
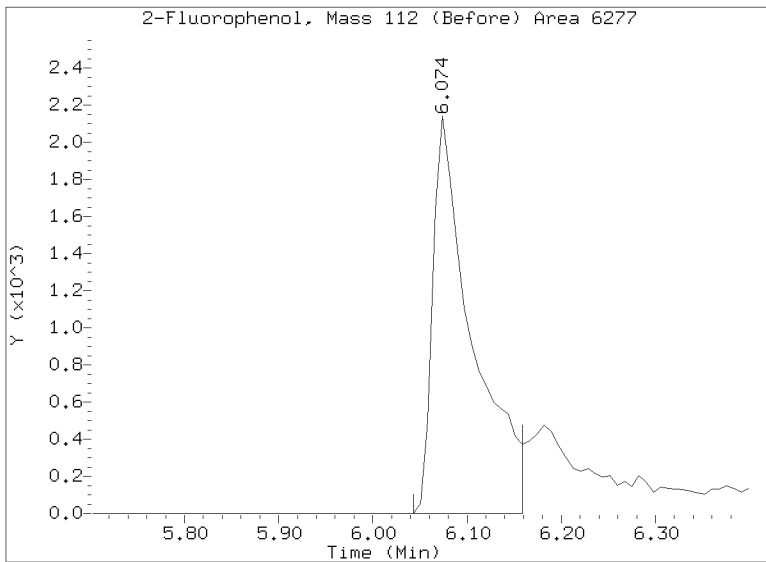
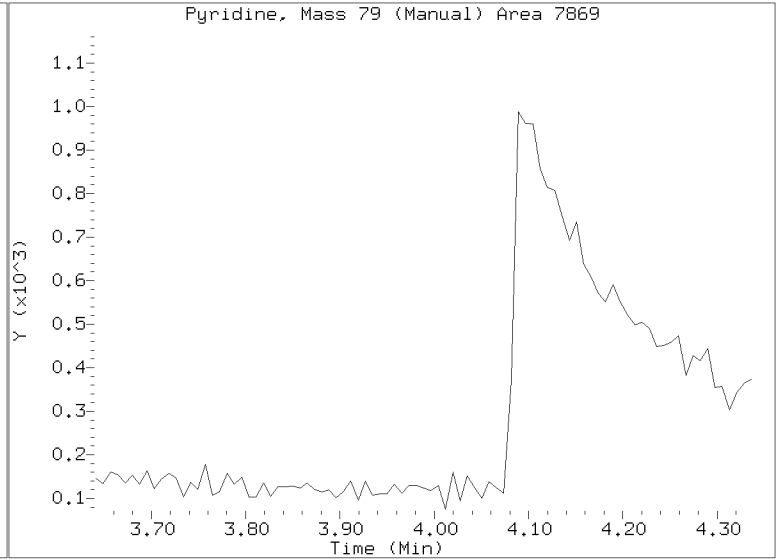
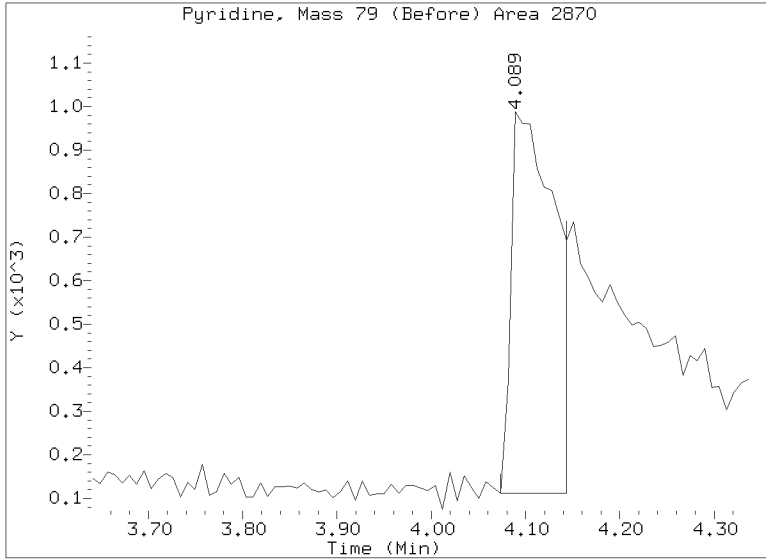
RRT check based on Ccal File: NT1423022836.D

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

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

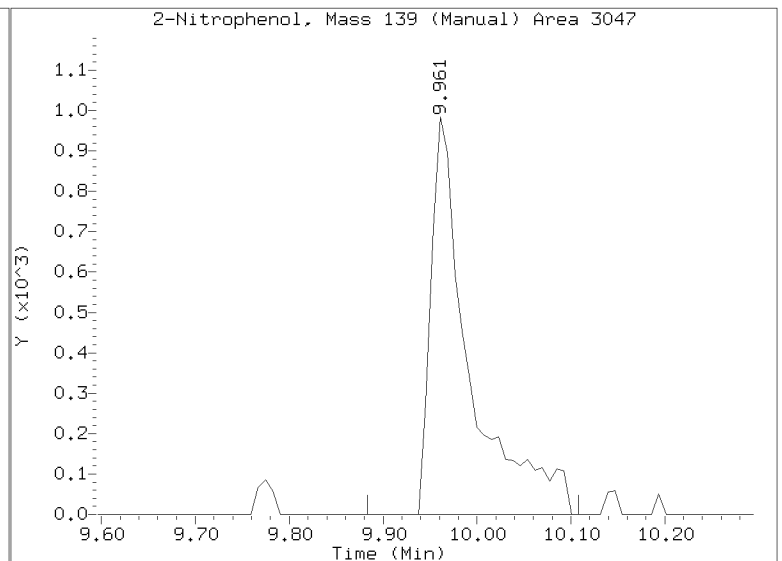
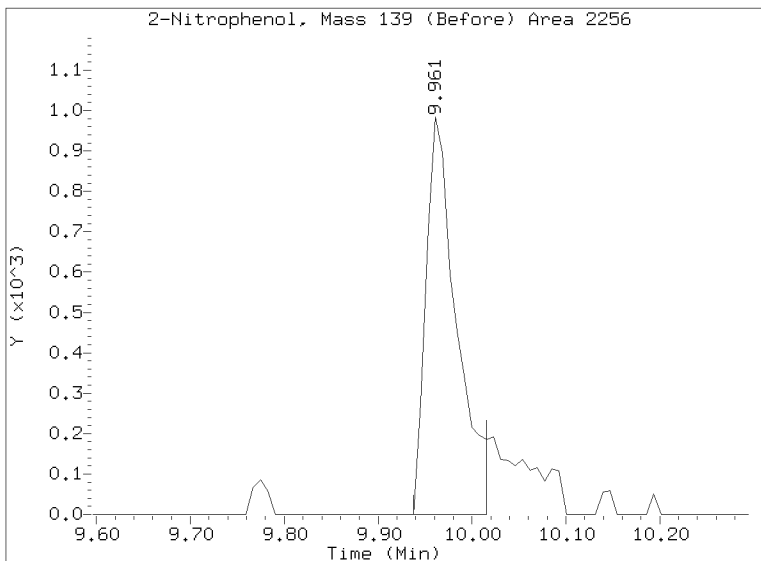
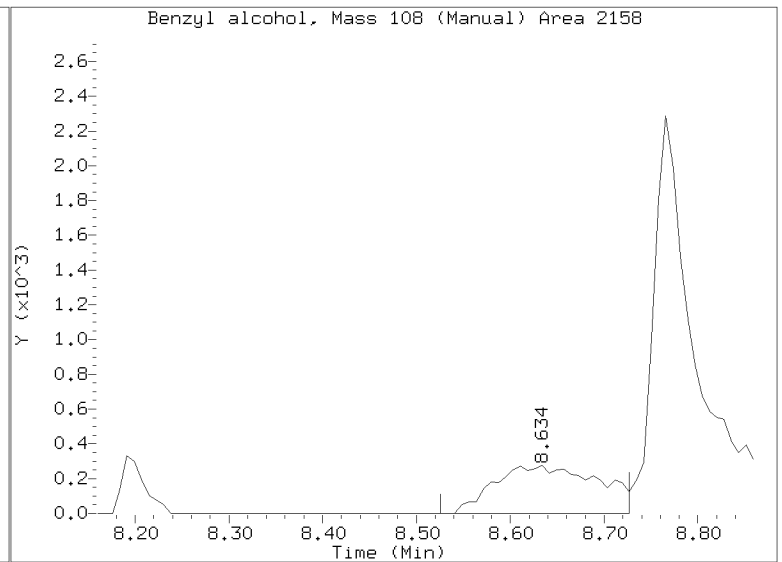
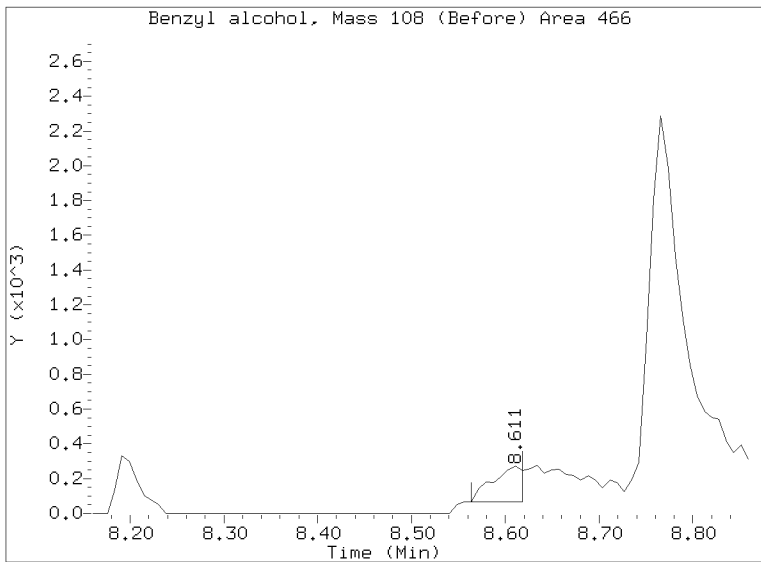
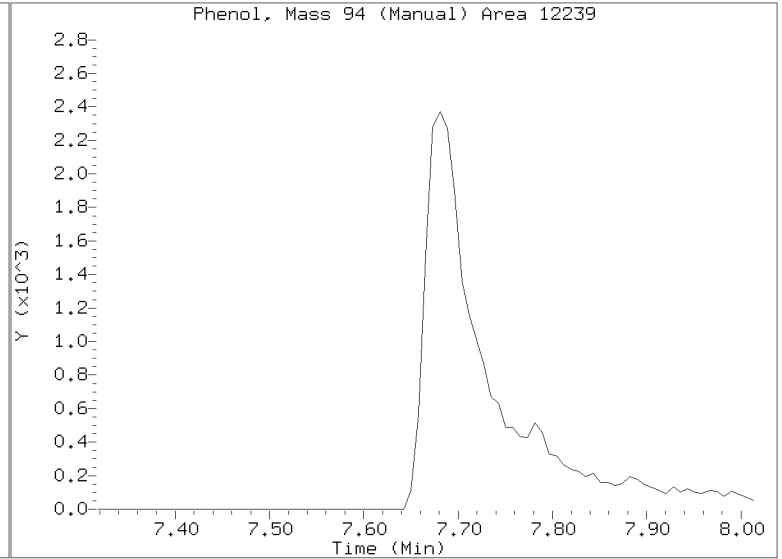
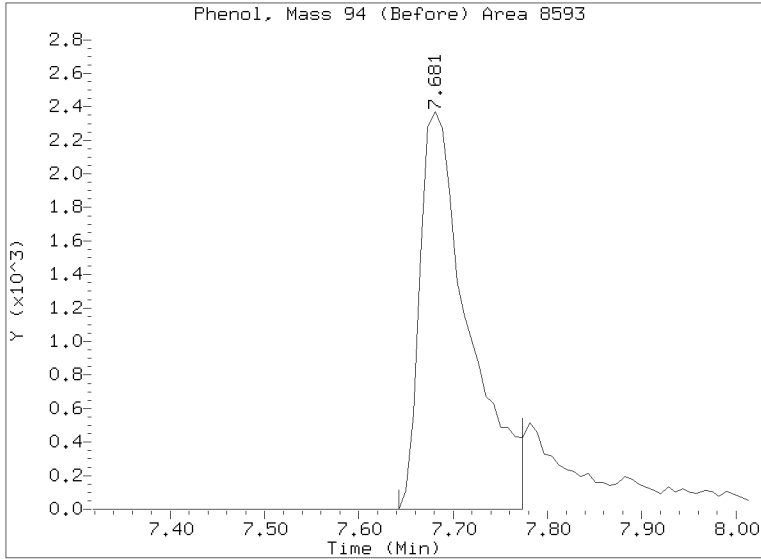
Quant Ion Manual Peak Adjustment Report

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Injection Date: 01-MAR-2023 23:52
Lab ID:SLB0374-LCV3 Client ID:
Report Date: 03/14/2023 08:52



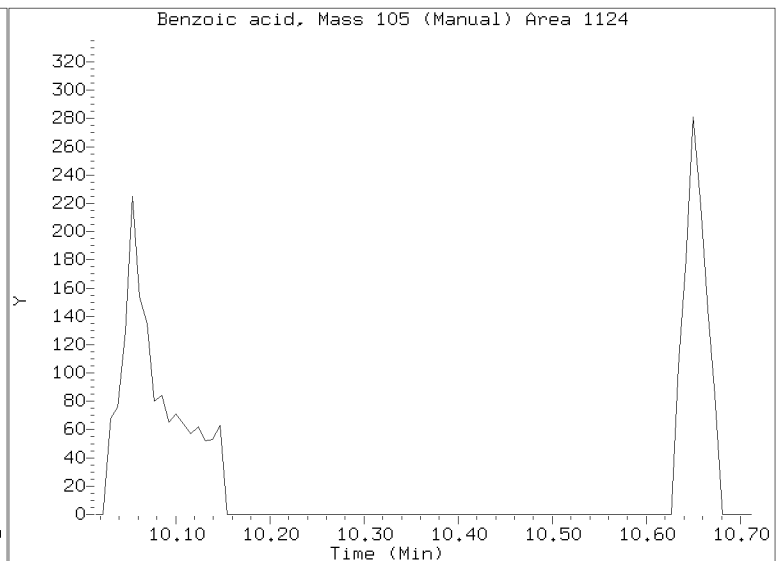
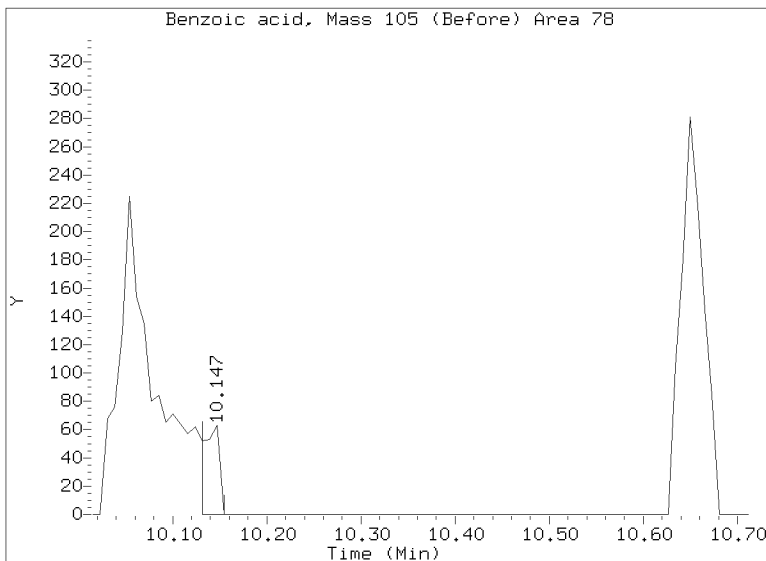
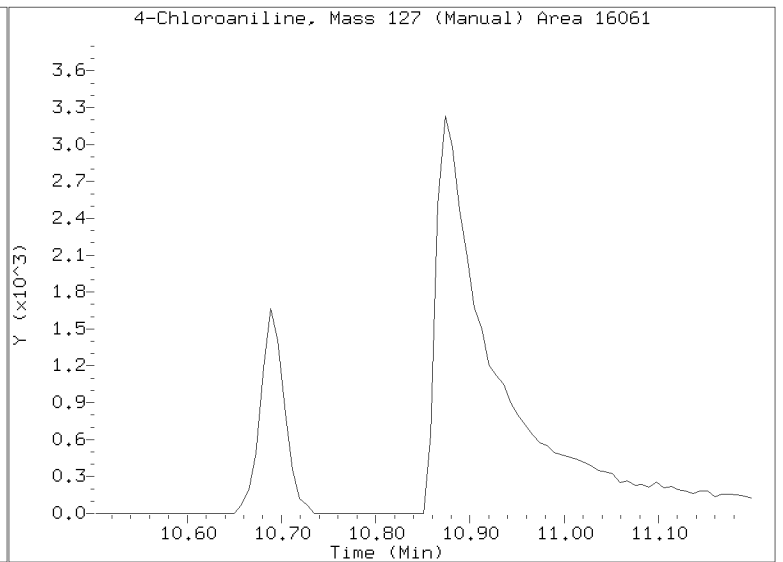
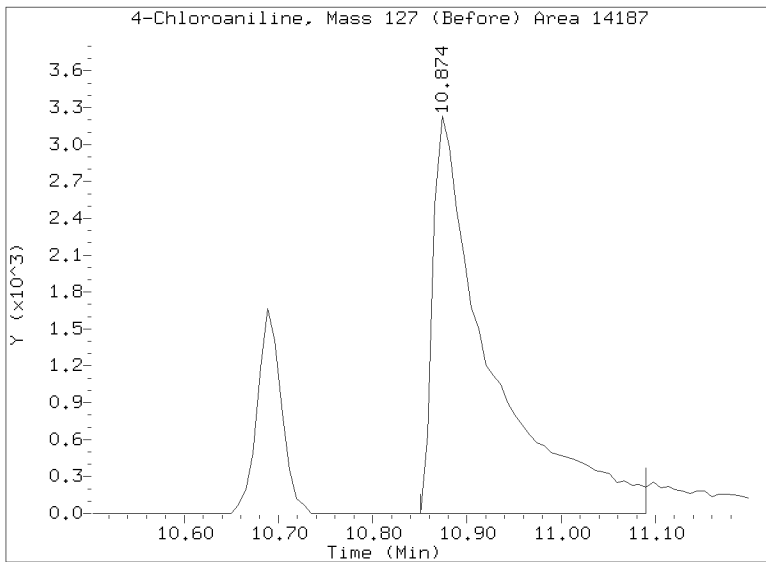
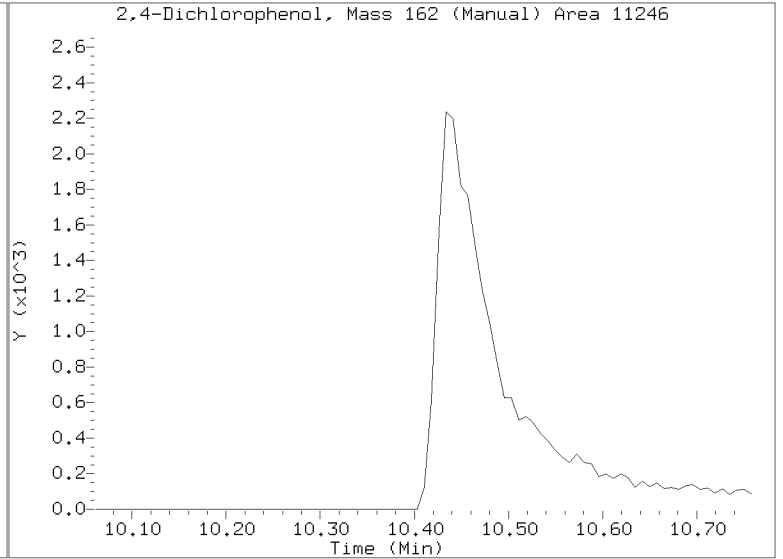
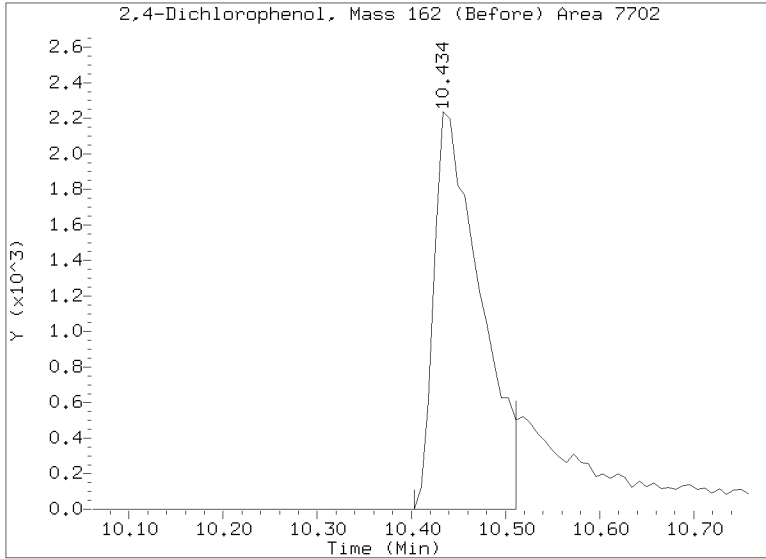
Quant Ion Manual Peak Adjustment Report

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Injection Date: 01-MAR-2023 23:52
Lab ID:SLB0374-LCV3 Client ID:
Report Date: 03/14/2023 08:52



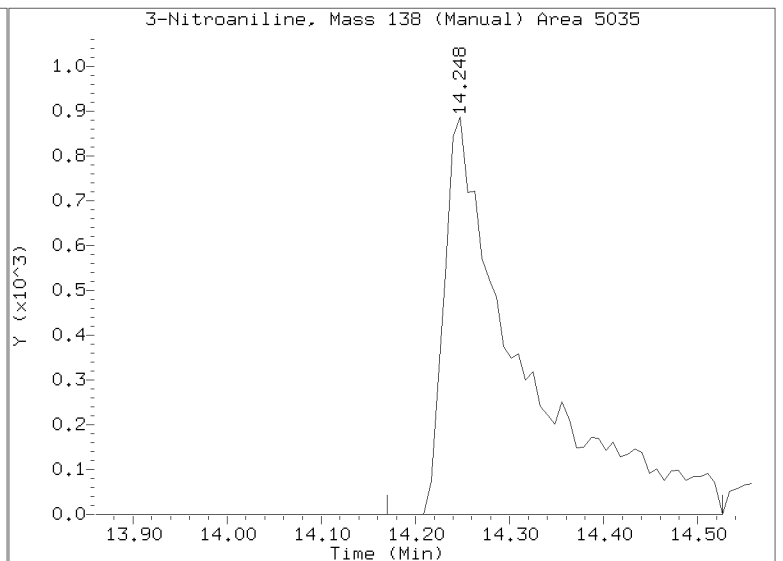
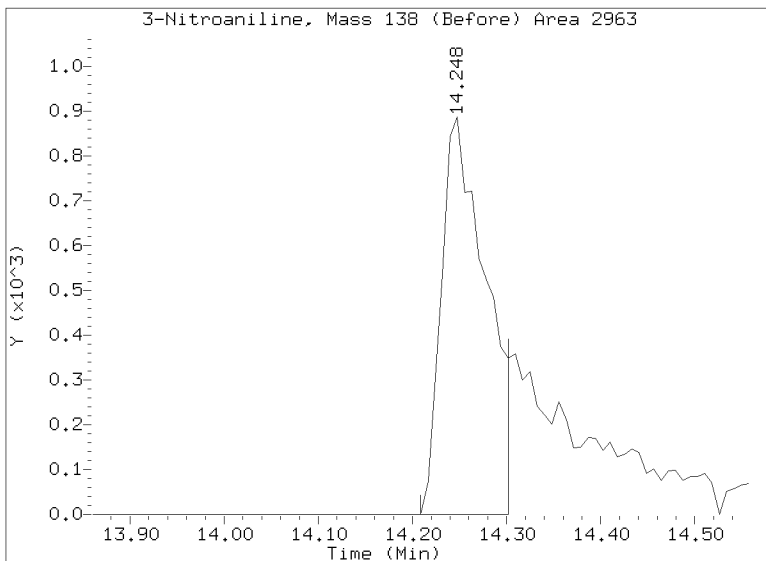
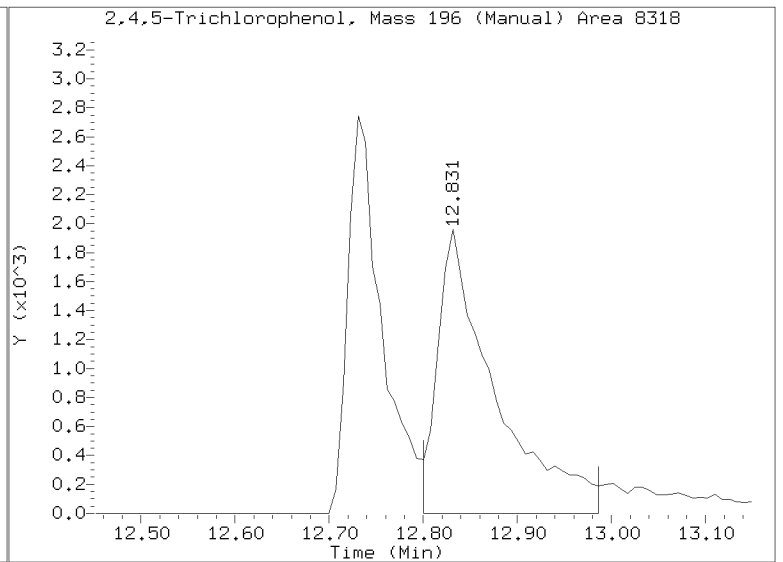
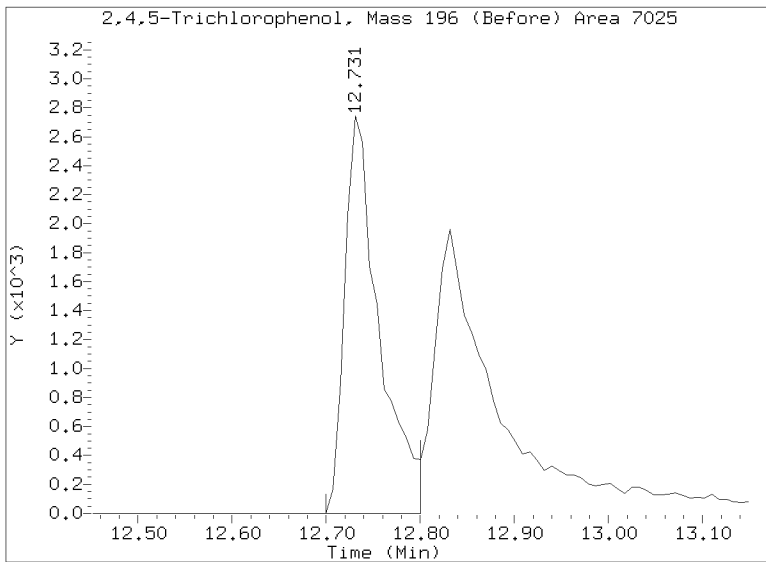
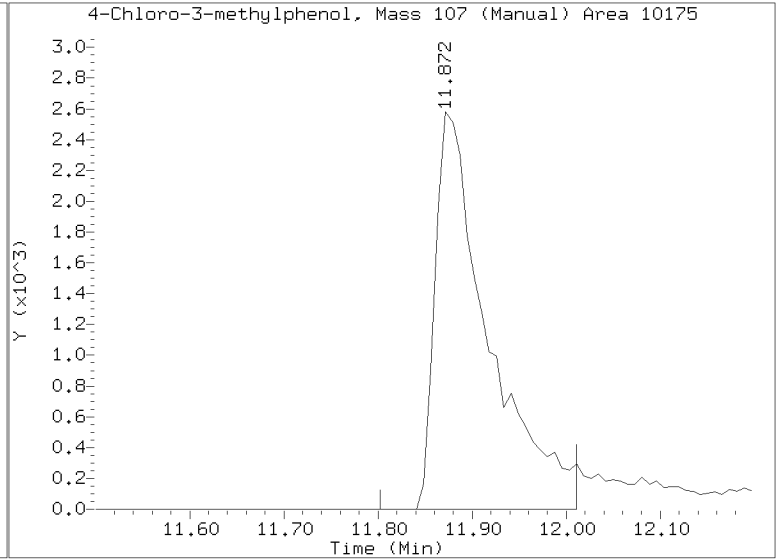
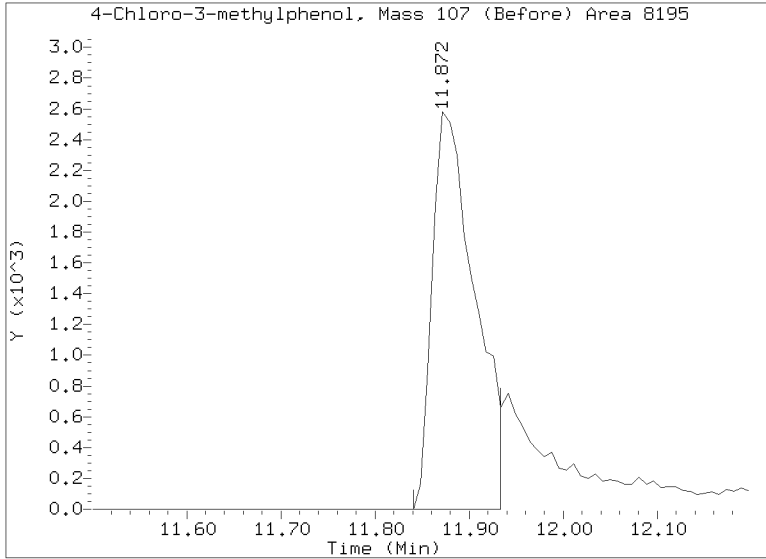
Quant Ion Manual Peak Adjustment Report

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Injection Date: 01-MAR-2023 23:52
Lab ID:SLB0374-LCV3 Client ID:
Report Date: 03/14/2023 08:52



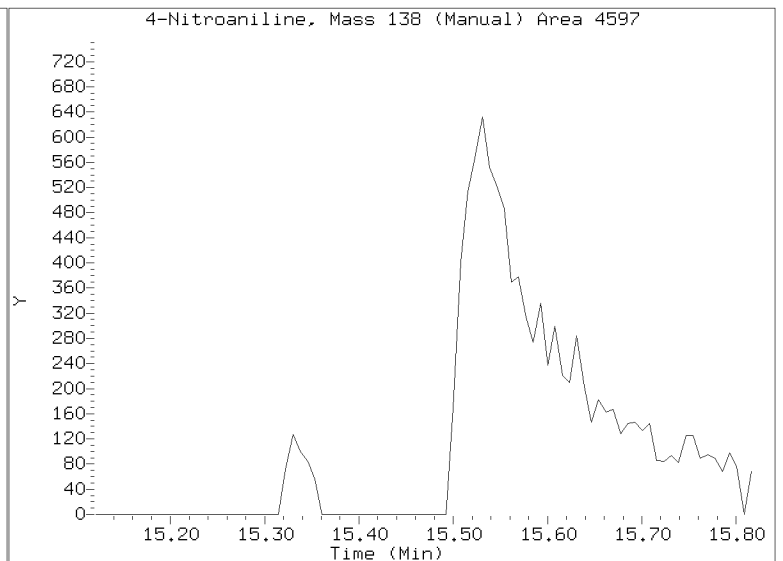
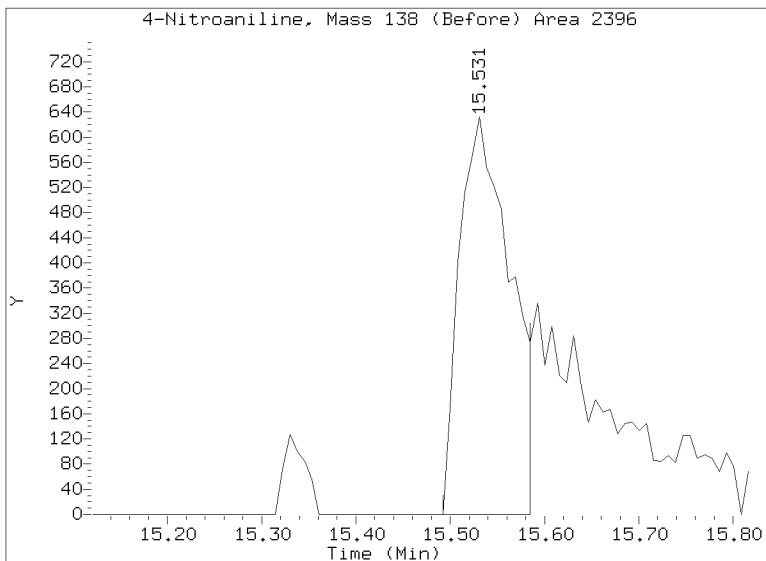
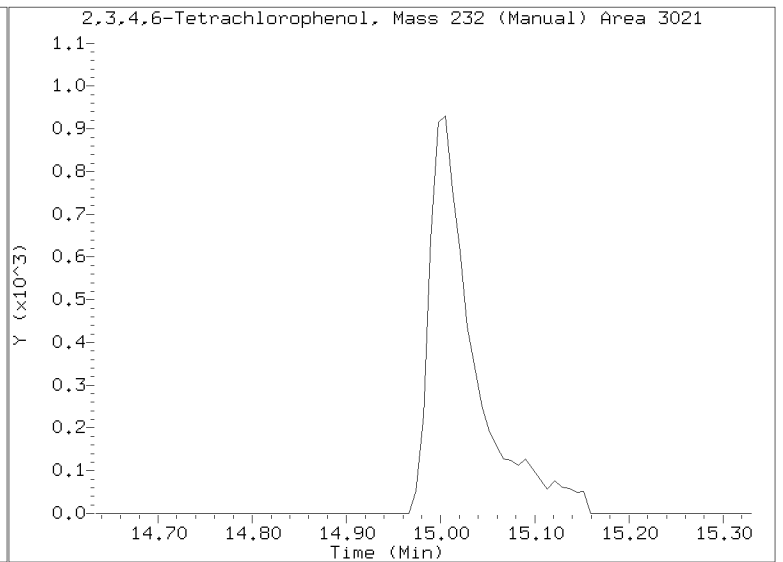
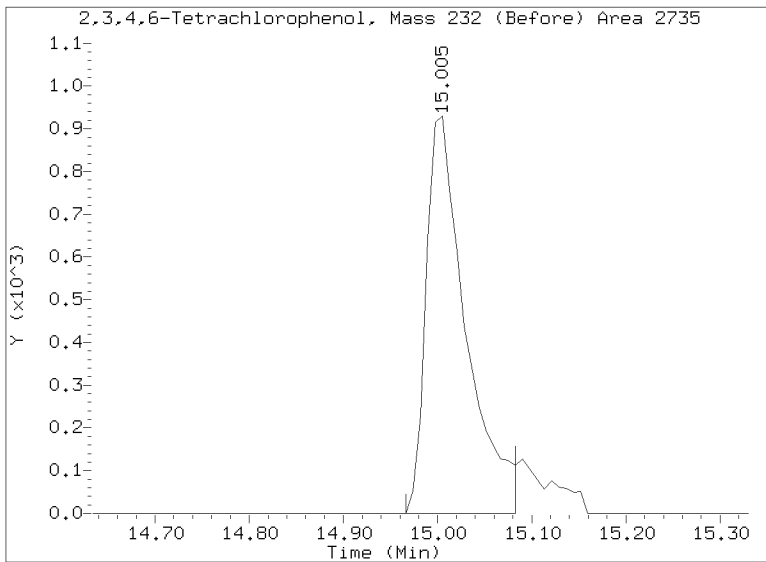
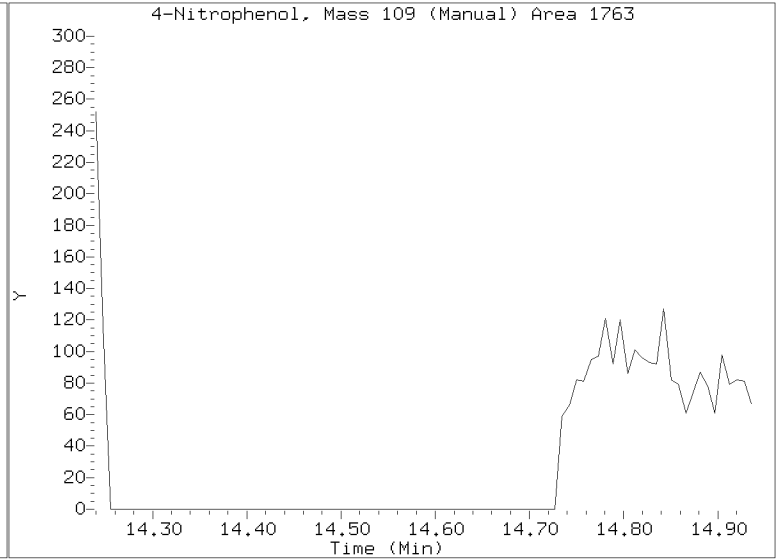
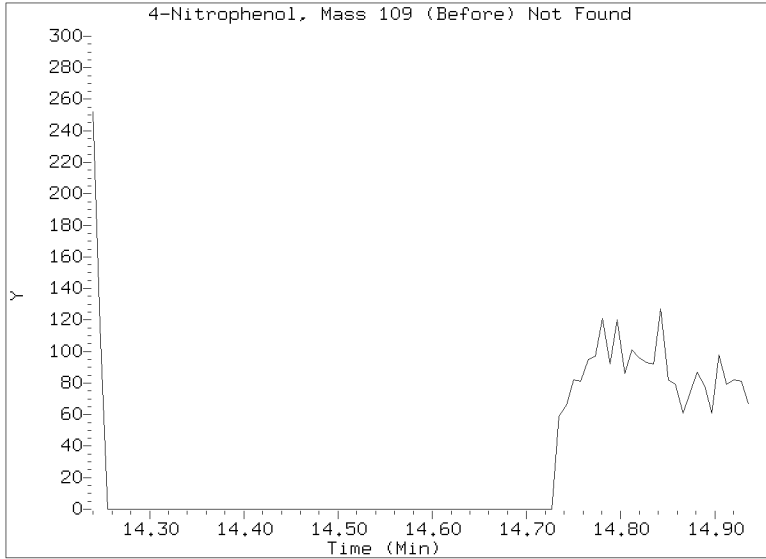
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Lab ID:SLB0374-LCV3 Client ID:
Report Date: 03/14/2023 08:52



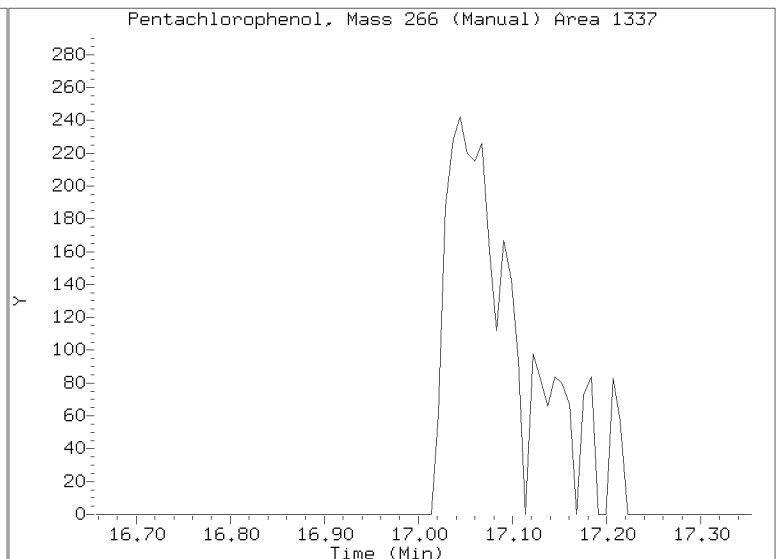
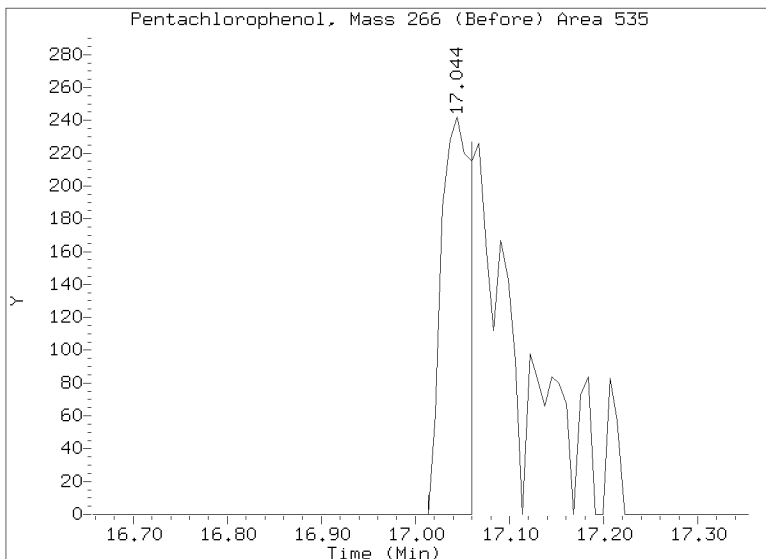
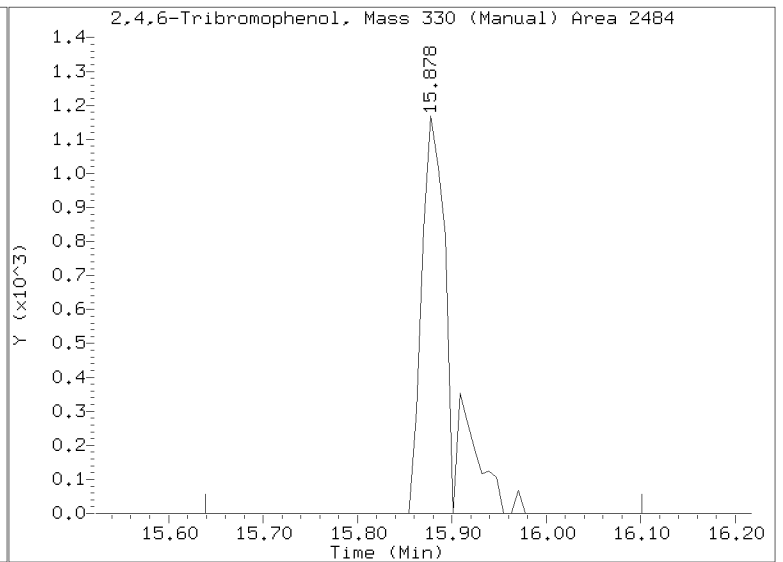
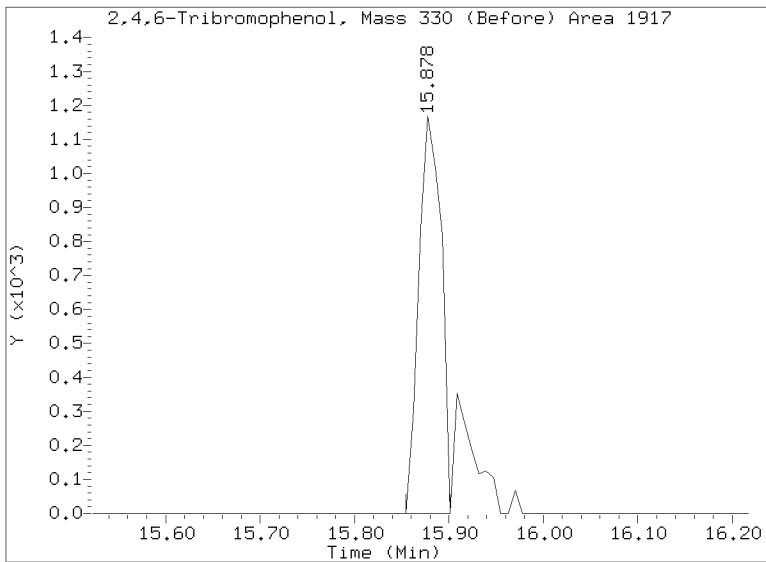
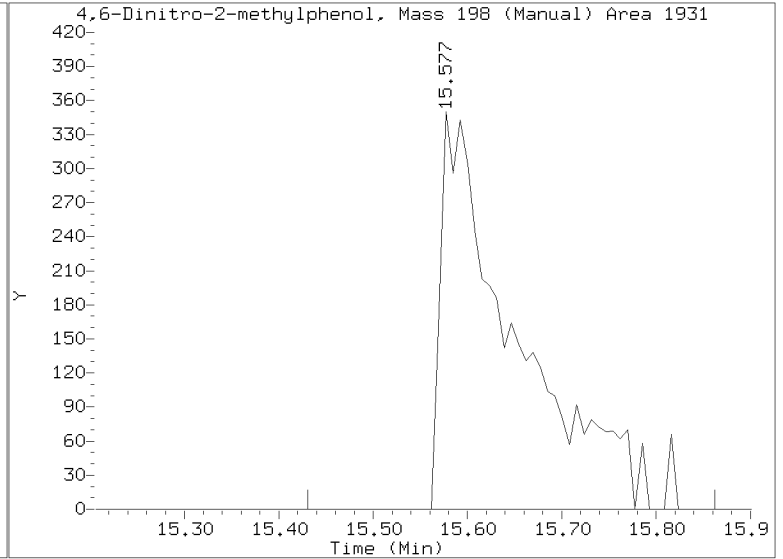
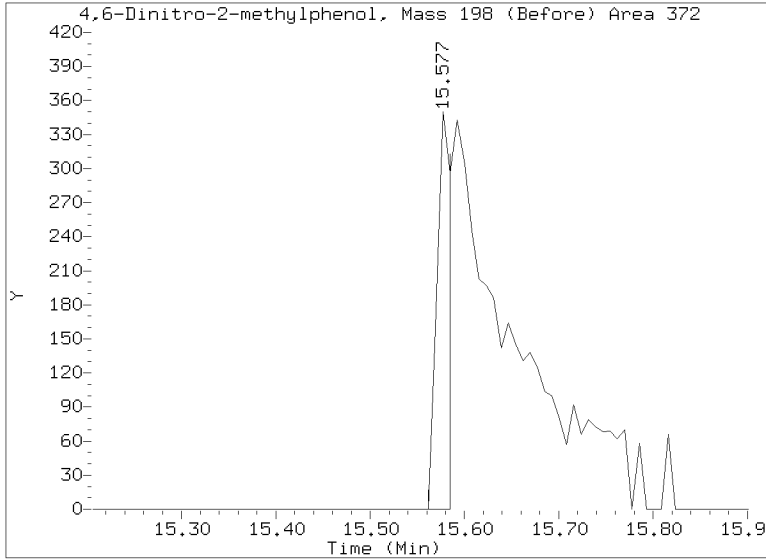
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230228.b/NT1423022838.D
Injection Date: 01-MAR-2023 23:52
Lab ID:SLB0374-LCV3 Client ID:
Report Date: 03/14/2023 08:52



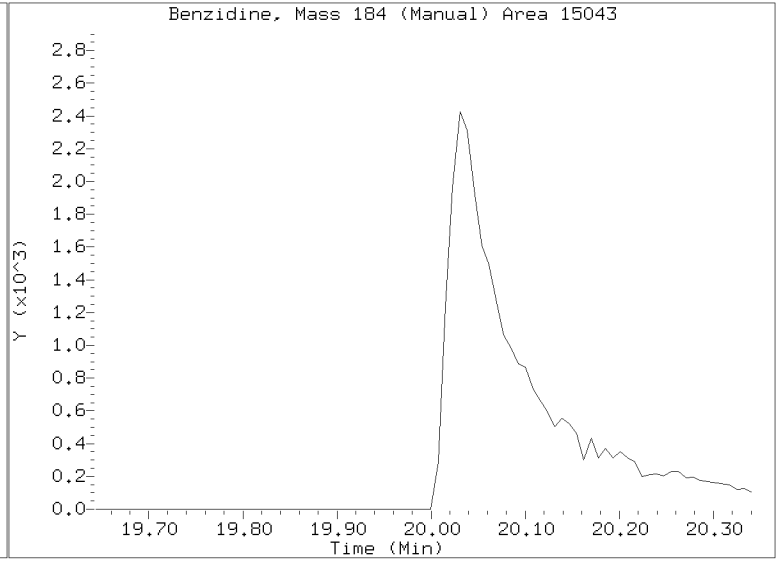
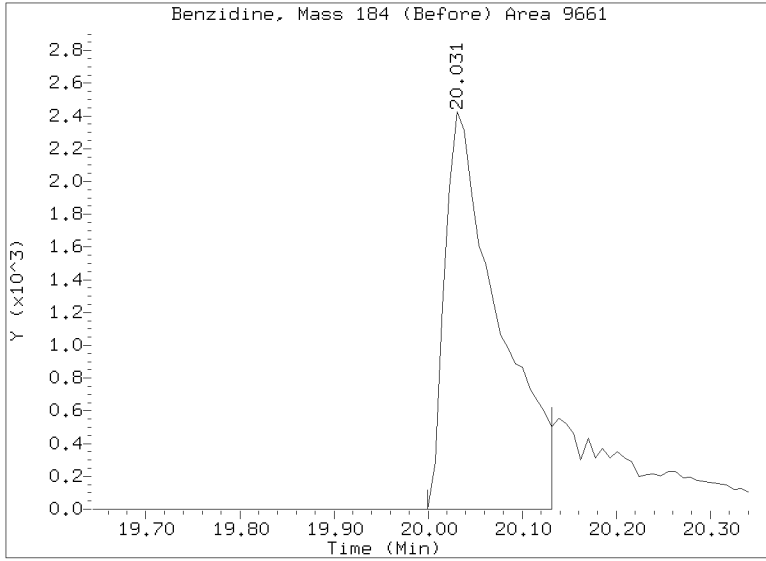
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230228.b/NT1423022838.D
Injection Date: 01-MAR-2023 23:52
Lab ID:SLB0374-LCV3 Client ID:
Report Date: 03/14/2023 08:52



Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230228.b/NT1423022838.D
Injection Date: 01-MAR-2023 23:52
Lab ID:SLB0374-LCV3 Client ID:
Report Date: 03/14/2023 08:52





LOW-CONCENTRATION CONTINUING CALIBRATION CHECK EPA 8270E

| | | | |
|----------------|----------------------------------|-------------------|------------------------|
| Laboratory: | <u>Analytical Resources, LLC</u> | SDG: | <u>23A0180</u> |
| Client: | <u>Anchor QEA, LLC</u> | Project: | <u>AOC5 MR Phase 1</u> |
| Instrument ID: | <u>NT14</u> | Calibration: | <u>GC00033</u> |
| Lab File ID: | <u>NT1423022839.D</u> | Calibration Date: | <u>02/28/2023</u> |
| Sequence: | <u>SLB0374</u> | Injection Date: | <u>03/02/23</u> |
| Lab Sample ID: | <u>SLB0374-LCV4</u> | Injection Time: | <u>00:28</u> |
| Sequence Name: | <u>ABN 0.5</u> | | |

| COMPOUND | TYPE | CONC. (ug/mL) | | RESPONSE FACTOR (RRF) | | | % DRIFT/DIFF | |
|------------------------------|------|---------------|------|-----------------------|-----------|-----|--------------|---------|
| | | STD | CCV | ICAL | CCV | MIN | CCV | LIMIT |
| Phenol | A | 0.50000 | 0.5 | 1.8373500 | 1.8097760 | | -1.5 | +/-50 |
| bis(2-chloroethyl) ether | A | 0.50000 | 0.5 | 1.5312550 | 1.3179000 | | 1.8 | +/-50 |
| 2-Chlorophenol | A | 0.50000 | 0.5 | 1.3533690 | 1.2787660 | | -5.5 | +/-50 |
| 1,3-Dichlorobenzene | A | 0.50000 | 0.5 | 1.4914740 | 1.5495410 | | 3.9 | +/-50 |
| 1,4-Dichlorobenzene | A | 0.50000 | 0.5 | 1.4740600 | 1.4766830 | | 0.2 | +/-50 |
| 1,2-Dichlorobenzene | A | 0.50000 | 0.5 | 1.4134490 | 1.4983230 | | 6.0 | +/-50 |
| Benzyl Alcohol | A | 0.50000 | 0.3 | 0.6439892 | 0.5336097 | | -33.4 | +/-50 |
| 2,2'-Oxybis(1-chloropropane) | A | 0.50000 | 0.5 | 0.3811859 | 0.3982225 | | 4.5 | +/-50 |
| 2-Methylphenol | A | 0.50000 | 0.6 | 1.1607310 | 1.3735440 | | 18.3 | +/-50 |
| Hexachloroethane | A | 0.50000 | 0.4 | 0.5535732 | 0.4382695 | | -20.8 | +/-50 |
| N-Nitroso-di-n-Propylamine | A | 0.50000 | 0.6 | 0.8837751 | 0.9885304 | | 11.9 | +/-50 |
| 4-Methylphenol | A | 0.50000 | 0.4 | 1.1353050 | 1.0937070 | | -19.1 | +/-50 |
| Nitrobenzene | A | 0.50000 | 0.5 | 0.3760061 | 0.4026481 | | 7.1 | +/-50 |
| Isophorone | A | 0.50000 | 0.4 | 0.4996273 | 0.5204050 | | -11.4 | +/-50 |
| 2-Nitrophenol | A | 0.50000 | 0.4 | 0.1467597 | 0.1498054 | | -23.0 | +/-50 |
| 2,4-Dimethylphenol | A | 1.0000 | 1.0 | 0.3427845 | 0.3512590 | | 2.5 | +/-50 |
| Bis(2-Chloroethoxy)methane | A | 0.50000 | 0.5 | 0.3780235 | 0.4005966 | | 6.0 | +/-50 |
| 2,4-Dichlorophenol | A | 1.0000 | 0.9 | 0.2946235 | 0.3030667 | | -12.6 | +/-50 |
| 1,2,4-Trichlorobenzene | A | 0.50000 | 0.5 | 0.3874001 | 0.3848810 | | -0.7 | +/-50 |
| Naphthalene | A | 0.50000 | 0.5 | 1.0669580 | 1.1218970 | | 5.2 | +/-50 |
| Benzoic acid | A | 2.0000 | 0.9 | 0.1358415 | 0.0617566 | | -54.5 | +/-50 * |
| 4-Chloroaniline | A | 1.0000 | 0.9 | 0.4563565 | 0.4092311 | | -10.3 | +/-50 |
| Hexachlorobutadiene | A | 0.50000 | 0.5 | 0.2363916 | 0.2181251 | | -7.7 | +/-50 |
| 4-Chloro-3-Methylphenol | A | 1.0000 | 1.0 | 0.3085482 | 0.3073192 | | -0.4 | +/-50 |
| 2-Methylnaphthalene | A | 0.50000 | 0.5 | 0.7901196 | 0.8125664 | | 2.8 | +/-50 |
| Hexachlorocyclopentadiene | A | 1.0000 | 0.01 | 0.3443795 | 0.0047913 | | -98.9 | +/-50 * |
| 2,4,6-Trichlorophenol | A | 1.0000 | 0.9 | 0.3907367 | 0.3476657 | | -11.0 | +/-50 |
| 2,4,5-Trichlorophenol | A | 1.0000 | 0.8 | 0.4224702 | 0.3477864 | | -17.7 | +/-50 |
| 2-Chloronaphthalene | A | 0.50000 | 0.5 | 1.2480280 | 1.2780150 | | 2.4 | +/-50 |
| 2-Nitroaniline | A | 1.0000 | 1.1 | 0.3254949 | 0.3484241 | | 7.0 | +/-50 |
| Acenaphthylene | A | 0.50000 | 0.6 | 1.8312950 | 2.0563160 | | 12.3 | +/-50 |
| Dimethylphthalate | A | 0.50000 | 0.6 | 1.2581570 | 1.3918690 | | 10.6 | +/-50 |
| 2,6-Dinitrotoluene | A | 1.0000 | 1.0 | 0.2948315 | 0.2959088 | | 0.4 | +/-50 |
| Acenaphthene | A | 0.50000 | 0.5 | 1.1724930 | 1.2187950 | | 4.0 | +/-50 |

* Values outside of QC limits



**LOW-CONCENTRATION
CONTINUING CALIBRATION CHECK
EPA 8270E**

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: NT14

Calibration: GC00033

Lab File ID: NT1423022839.D

Calibration Date: 02/28/2023

Sequence: SLB0374

Injection Date: 03/02/23

Lab Sample ID: SLB0374-LCV4

Injection Time: 00:28

Sequence Name: ABN 0.5

| COMPOUND | TYPE | CONC. (ug/mL) | | RESPONSE FACTOR (RRF) | | | % DRIFT/DIFF | |
|----------------------------|------|---------------|-------|-----------------------|-----------|-----|--------------|---------|
| | | STD | CCV | ICAL | CCV | MIN | CCV | LIMIT |
| 3-Nitroaniline | A | 1.0000 | 0.8 | 0.3021810 | 0.2305190 | | -23.7 | +/-50 |
| 2,4-Dinitrophenol | A | 2.0000 | 0.3 | 0.1437811 | 0.0309283 | | -83.4 | +/-50 * |
| Dibenzofuran | A | 0.50000 | 0.5 | 1.8656210 | 1.8752780 | | 0.5 | +/-50 |
| 4-Nitrophenol | A | 1.0000 | 0.8 | 0.1323756 | 0.1156818 | | -22.6 | +/-50 |
| 2,4-Dinitrotoluene | A | 1.0000 | 0.9 | 0.4244424 | 0.3725876 | | -12.2 | +/-50 |
| Fluorene | A | 0.50000 | 0.5 | 1.5719010 | 1.6370900 | | 4.1 | +/-50 |
| 4-Chlorophenylphenyl ether | A | 0.50000 | 0.5 | 0.8363665 | 0.8271452 | | -1.1 | +/-50 |
| Diethyl phthalate | A | 0.50000 | 0.6 | 1.1765440 | 1.2958010 | | 10.1 | +/-50 |
| 4-Nitroaniline | A | 1.0000 | 0.7 | 0.2995450 | 0.2143870 | | -28.4 | +/-50 |
| 4,6-Dinitro-2-methylphenol | A | 2.0000 | 0.8 | 0.0975169 | 0.0505395 | | -62.0 | +/-50 * |
| N-Nitrosodiphenylamine | A | 0.50000 | 0.6 | 0.5026629 | 0.5673248 | | 12.9 | +/-50 |
| 4-Bromophenyl phenyl ether | A | 0.50000 | 0.5 | 0.2209900 | 0.2241227 | | 1.4 | +/-50 |
| Hexachlorobenzene | A | 0.50000 | 0.5 | 0.2429692 | 0.2552487 | | 5.1 | +/-50 |
| Pentachlorophenol | A | 1.0000 | 0.5 | 0.0938263 | 0.0575007 | | -49.8 | +/-50 |
| Phenanthrene | A | 0.50000 | 0.5 | 1.0640870 | 1.0964860 | | 3.0 | +/-50 |
| Anthracene | A | 0.50000 | 0.5 | 1.0059580 | 1.0694760 | | 6.3 | +/-50 |
| Carbazole | A | 0.50000 | 0.5 | 0.8816605 | 0.8660286 | | -1.8 | +/-50 |
| Di-n-Butylphthalate | A | 0.50000 | 0.5 | 0.9469101 | 1.1275940 | | -0.9 | +/-50 |
| Fluoranthene | A | 0.50000 | 0.5 | 1.5175930 | 1.4198450 | | -6.4 | +/-50 |
| Pyrene | A | 0.50000 | 0.5 | 1.6000330 | 1.5175590 | | -5.2 | +/-50 |
| Butylbenzylphthalate | A | 0.50000 | 0.5 | 0.4562763 | 0.5695220 | | 0.7 | +/-50 |
| Benzo(a)anthracene | A | 0.50000 | 0.5 | 1.3399020 | 1.4649550 | | 9.3 | +/-50 |
| 3,3'-Dichlorobenzidine | A | 1.5000 | 1.9 | 0.3826468 | 0.4837237 | | 26.4 | +/-50 |
| Chrysene | A | 0.50000 | 0.5 | 1.2879040 | 1.3531260 | | 5.1 | +/-50 |
| bis(2-Ethylhexyl)phthalate | A | 0.50000 | 0.5 | 0.5161185 | 0.5596532 | | -8.3 | +/-50 |
| Di-n-Octylphthalate | A | 0.50000 | 0.5 | 1.0531830 | 1.0610900 | | 0.8 | +/-50 |
| Benzofluoranthenes, Total | A | 1.0000 | 1.2 | 1.2927770 | 1.5088970 | | 16.7 | +/-50 |
| Benzo(a)pyrene | A | 0.50000 | 0.5 | 1.1338150 | 1.2328670 | | 8.7 | +/-50 |
| Indeno(1,2,3-cd)pyrene | A | 0.50000 | 0.3 | 1.4272450 | 0.7193540 | | -49.6 | +/-50 |
| Dibenzo(a,h)anthracene | A | 0.50000 | 0.3 | 1.2122070 | 0.6818961 | | -43.7 | +/-50 |
| Benzo(g,h,i)perylene | A | 0.50000 | 0.2 | 1.2448130 | 0.4944038 | | -60.3 | +/-50 * |
| 1-Methylnaphthalene | A | 0.50000 | 0.5 | 0.7274101 | 0.7398647 | | 1.7 | +/-50 |
| 2-Fluorophenol | A | 0.75000 | 0.681 | 1.0846110 | 0.9855327 | | -9.1 | +/-50 |
| Phenol-d5 | A | 0.75000 | 0.720 | 1.5399100 | 1.4782290 | | -4.0 | +/-50 |

* Values outside of QC limits



**LOW-CONCENTRATION
CONTINUING CALIBRATION CHECK
EPA 8270E**

| | | | |
|----------------|----------------------------------|-------------------|------------------------|
| Laboratory: | <u>Analytical Resources, LLC</u> | SDG: | <u>23A0180</u> |
| Client: | <u>Anchor QEA, LLC</u> | Project: | <u>AOC5 MR Phase 1</u> |
| Instrument ID: | <u>NT14</u> | Calibration: | <u>GC00033</u> |
| Lab File ID: | <u>NT1423022839.D</u> | Calibration Date: | <u>02/28/2023</u> |
| Sequence: | <u>SLB0374</u> | Injection Date: | <u>03/02/23</u> |
| Lab Sample ID: | <u>SLB0374-LCV4</u> | Injection Time: | <u>00:28</u> |
| Sequence Name: | <u>ABN 0.5</u> | | |

| COMPOUND | TYPE | CONC. (ug/mL) | | RESPONSE FACTOR (RRF) | | | % DRIFT/DIFF | |
|------------------------|------|---------------|-------|-----------------------|-----------|-----|--------------|-------|
| | | STD | CCV | ICAL | CCV | MIN | CCV | LIMIT |
| 2-Chlorophenol-d4 | A | 0.75000 | 0.758 | 1.3093910 | 1.3231930 | | 1.1 | +/-50 |
| 1,2-Dichlorobenzene-d4 | A | 0.50000 | 0.499 | 0.9857584 | 0.9831205 | | -0.3 | +/-50 |
| Nitrobenzene-d5 | A | 0.50000 | 0.551 | 0.3912861 | 0.4312906 | | 10.2 | +/-50 |
| 2-Fluorobiphenyl | A | 0.50000 | 0.519 | 1.5568580 | 1.6170970 | | 3.9 | +/-50 |
| 2,4,6-Tribromophenol | A | 0.75000 | 0.542 | 0.1850894 | 0.1555752 | | -27.7 | +/-50 |
| p-Terphenyl-d14 | A | 0.50000 | 0.466 | 1.2319340 | 1.1472240 | | -6.9 | +/-50 |

* Values outside of QC limits

* Values outside of QC limits

Data File: \\target\share\chem3\nt14,1\20230228,16\NT1423022839.D

Date: 02-MAR-2023 00:28

Client ID:

Sample Info: SLB0374-LCV4

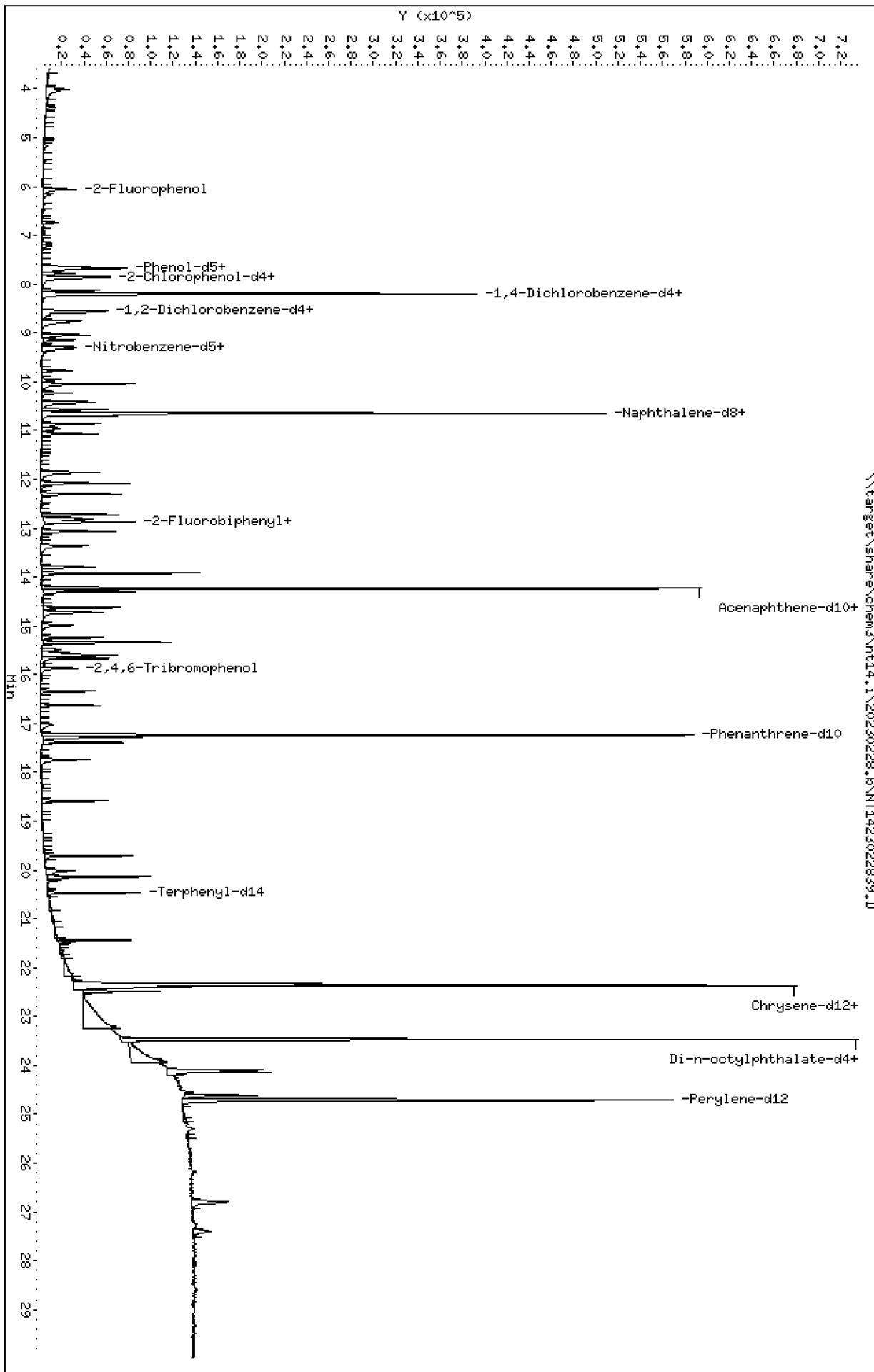
Column phase: ZB-5msi

Instrument: nt14,1

Operator: JGR

Column diameter: 0.25

Page 1



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

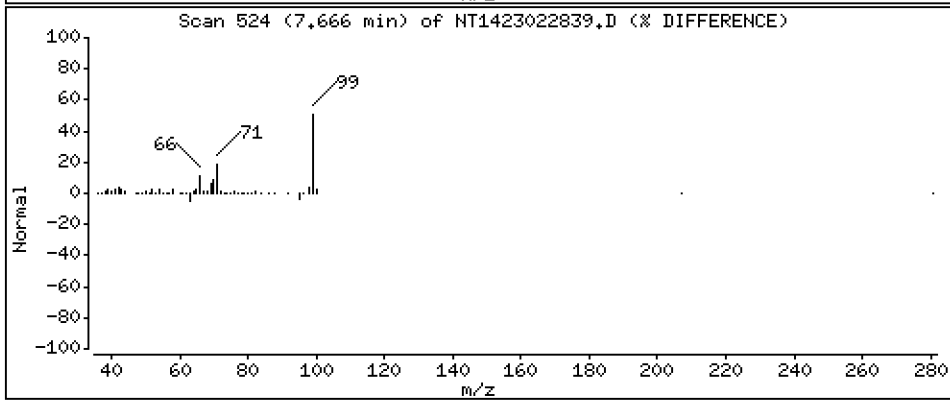
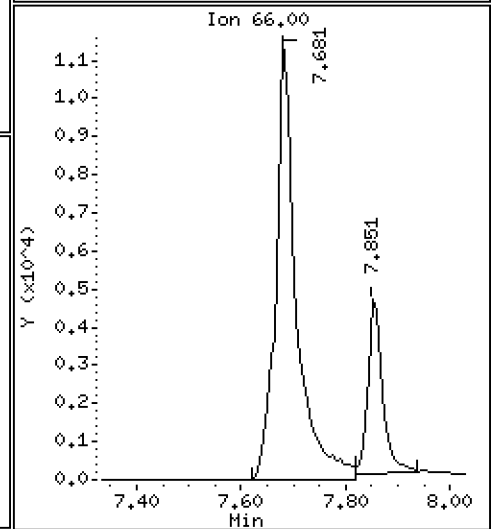
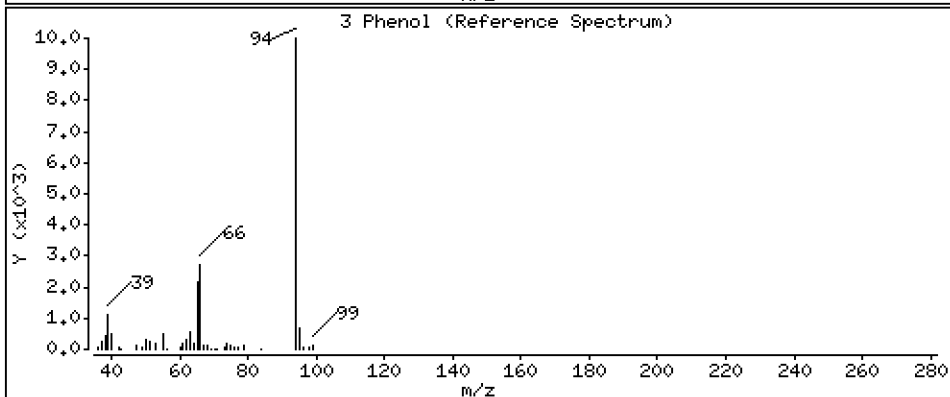
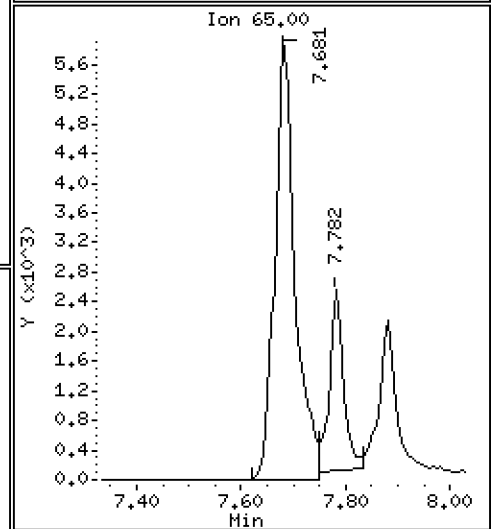
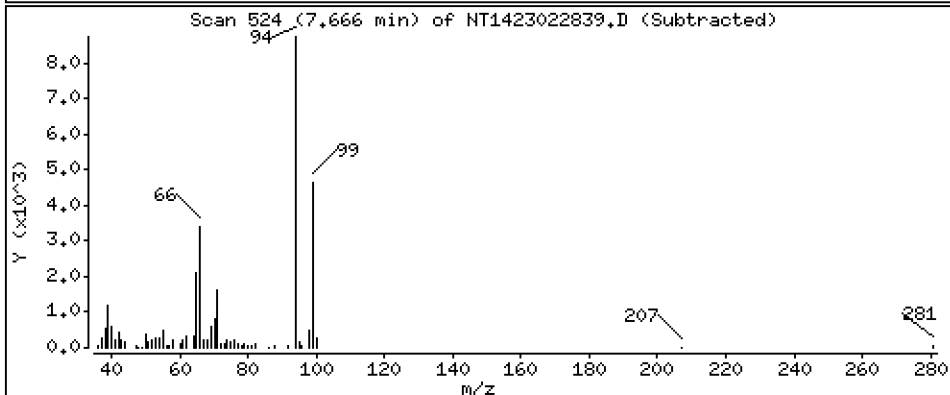
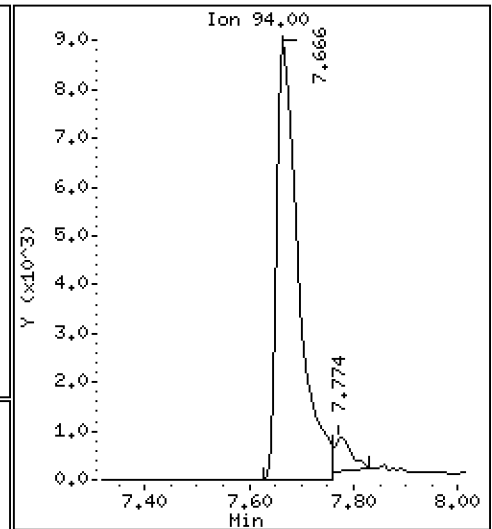
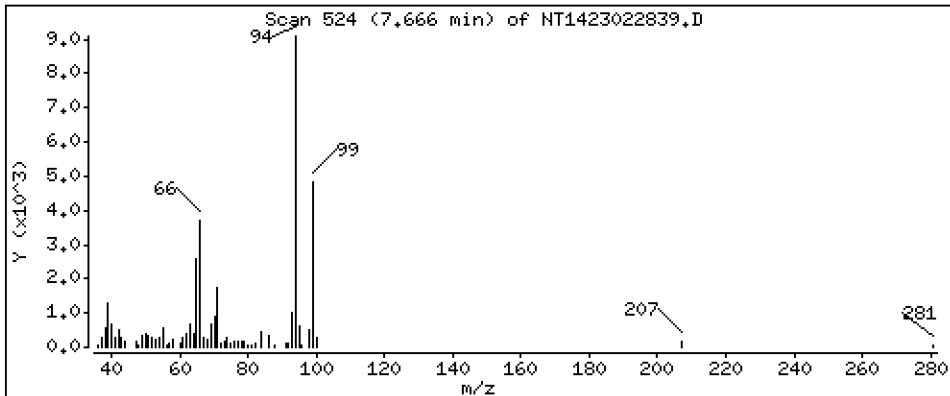
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 0,4925 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

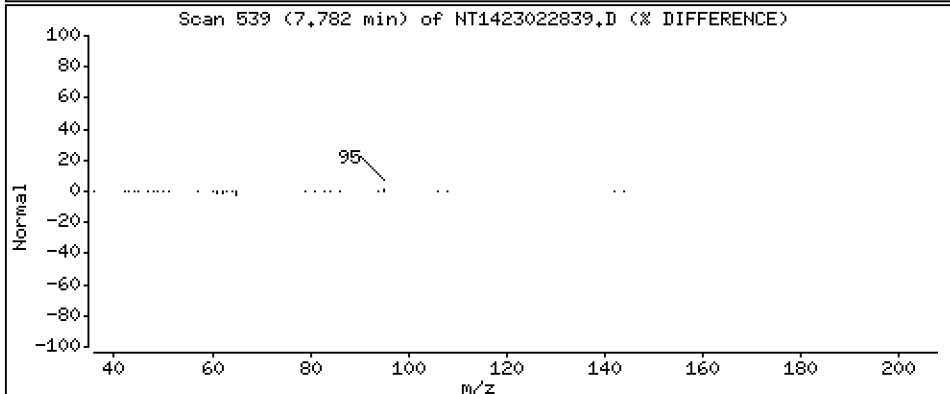
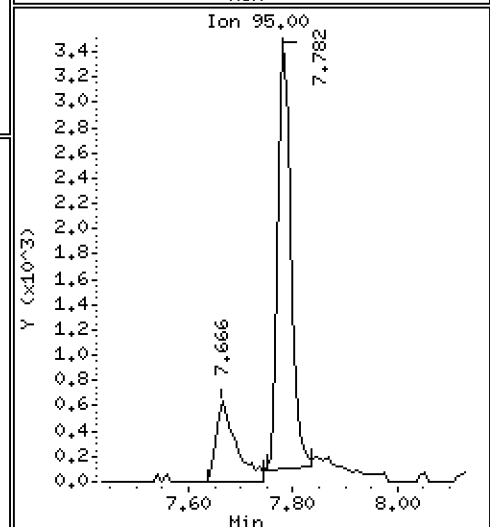
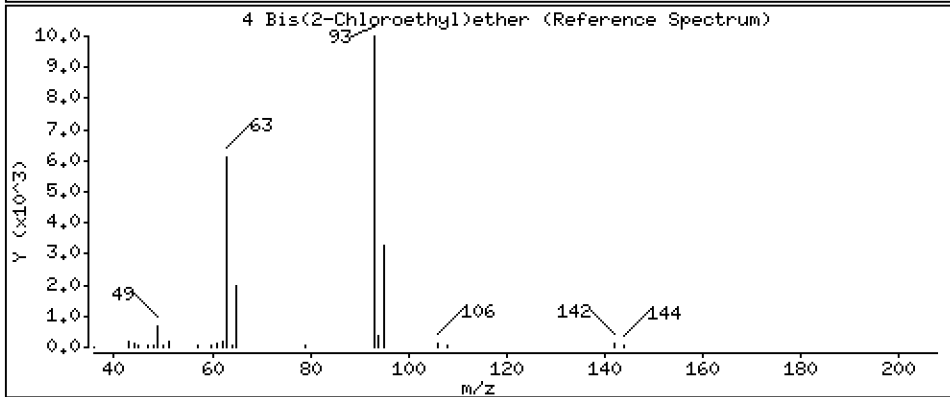
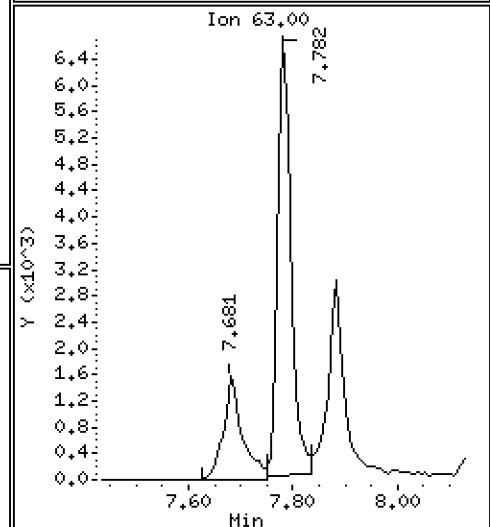
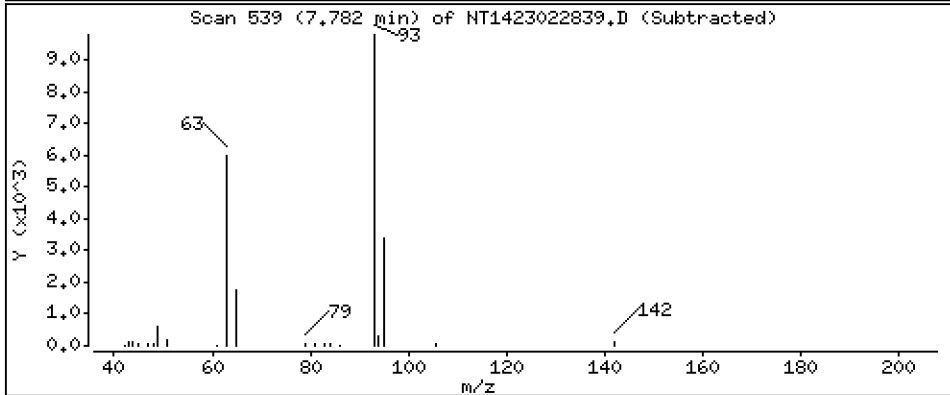
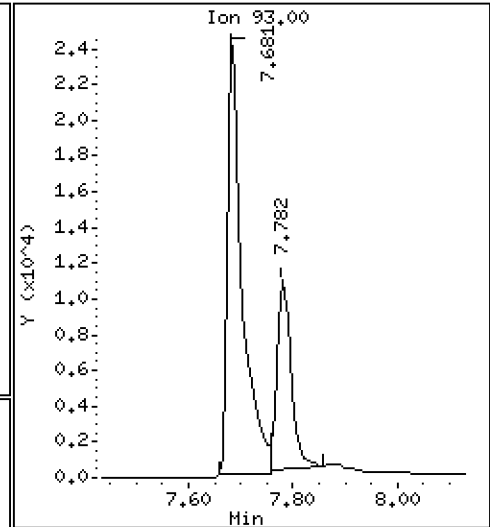
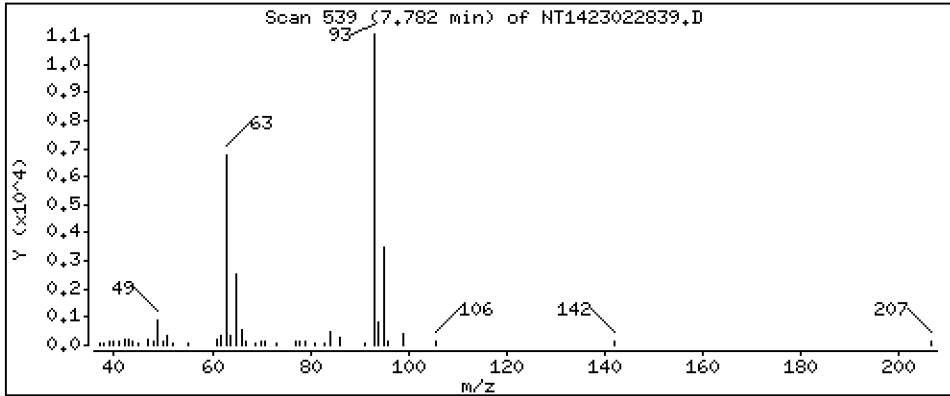
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

4 Bis(2-Chloroethyl)ether

Concentration: 0,5090 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

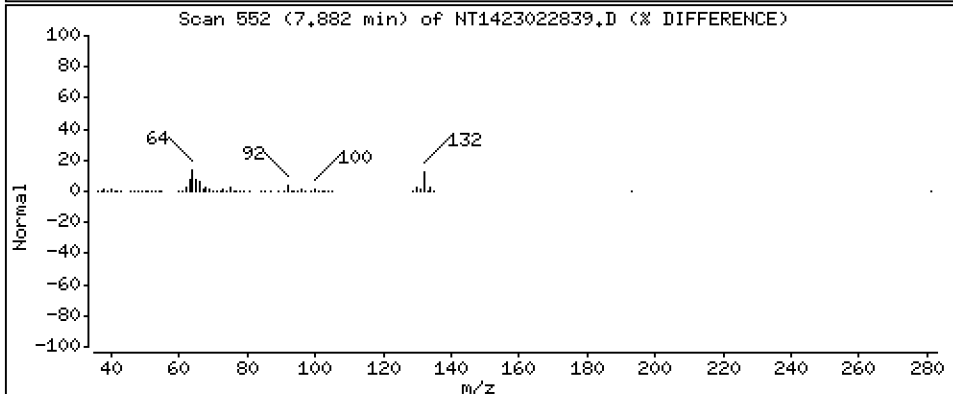
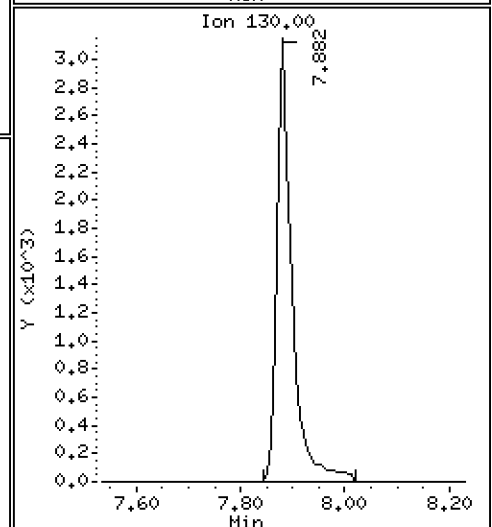
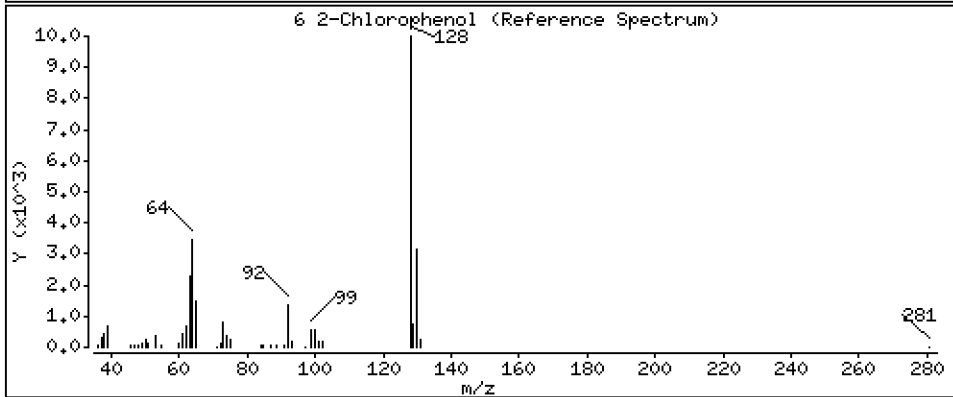
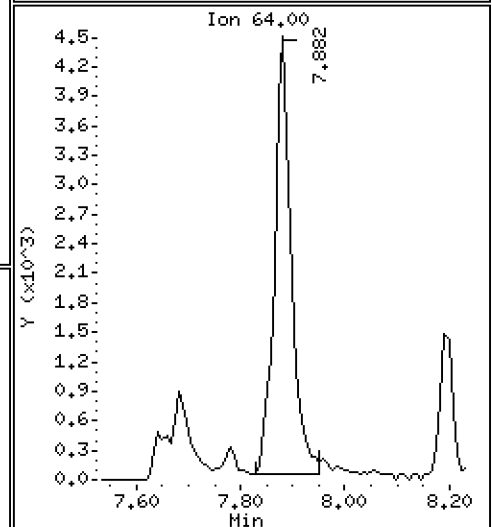
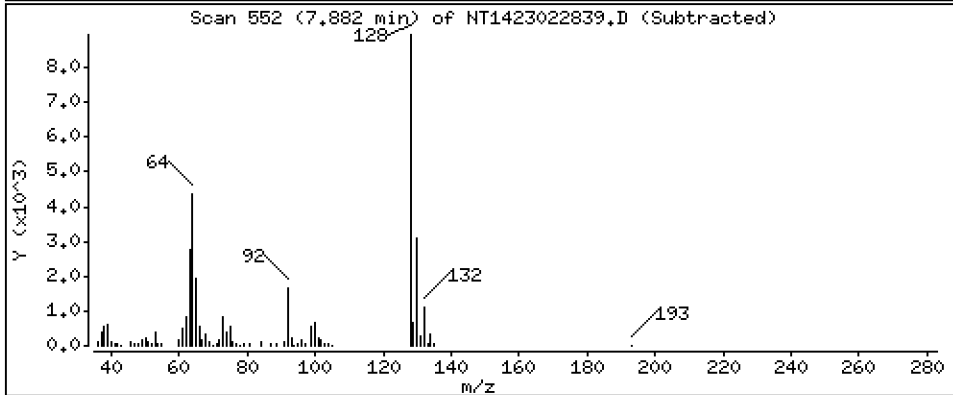
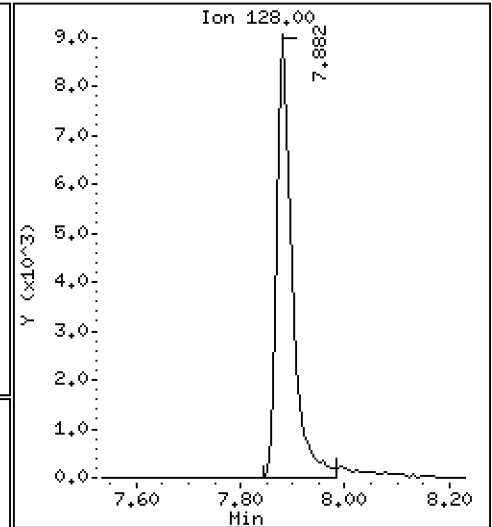
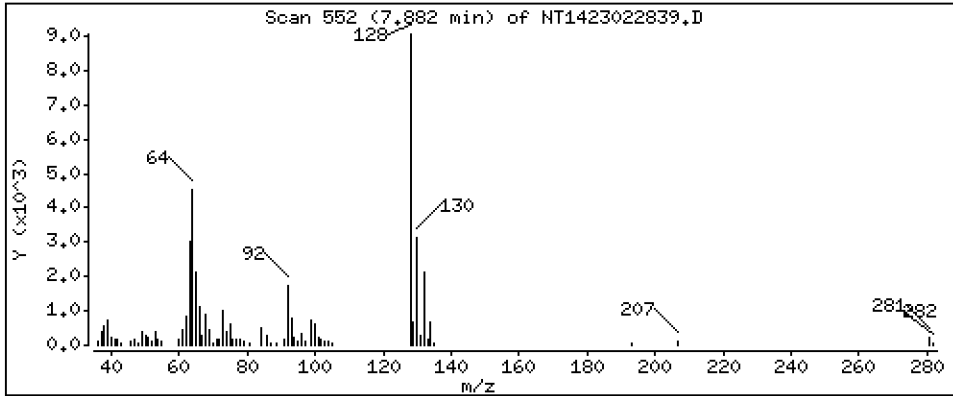
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 0,4724 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

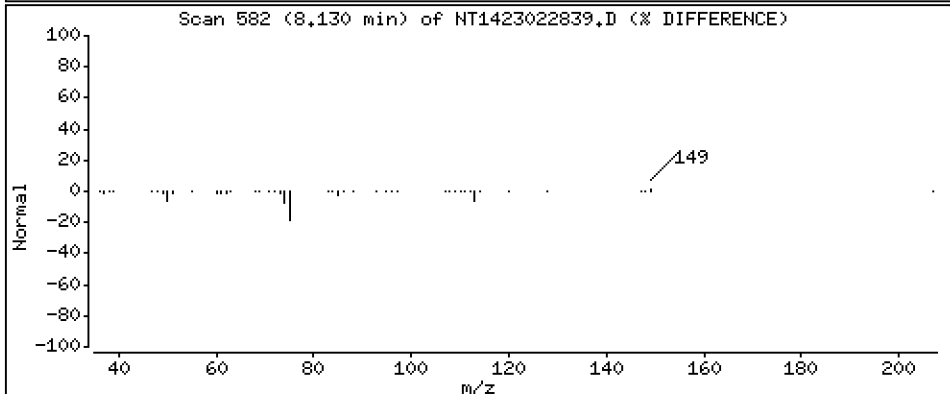
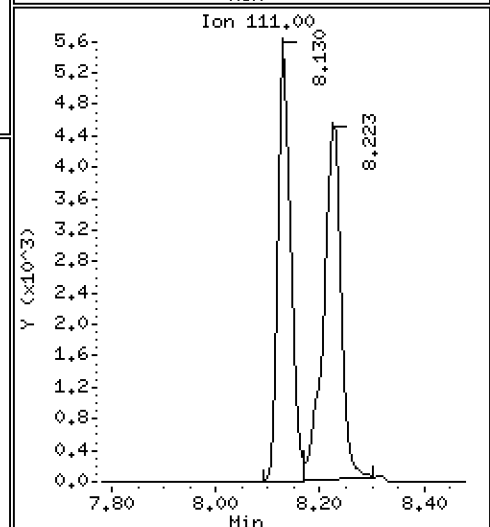
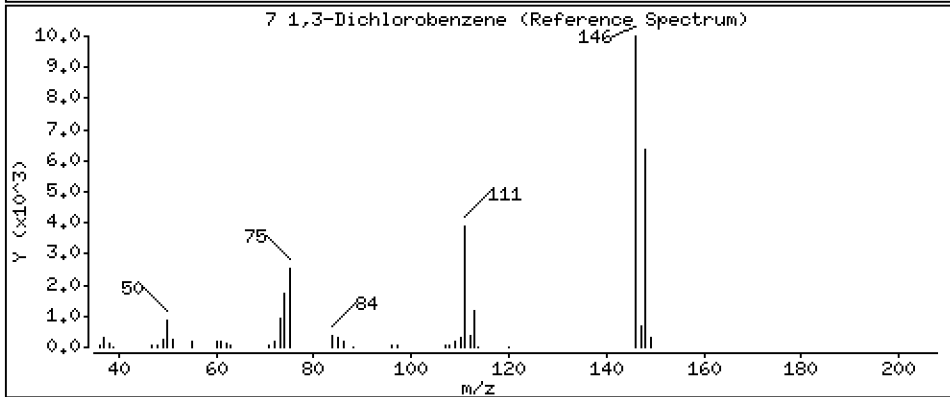
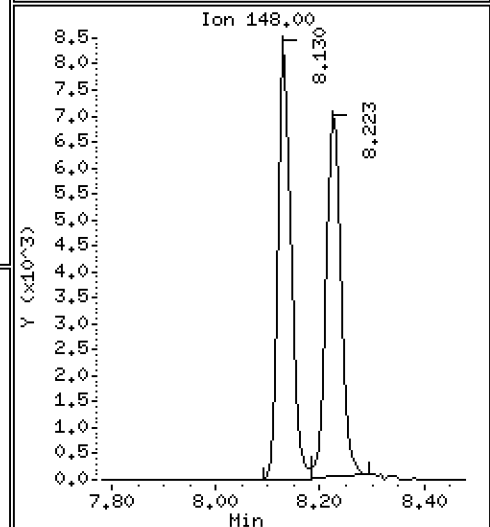
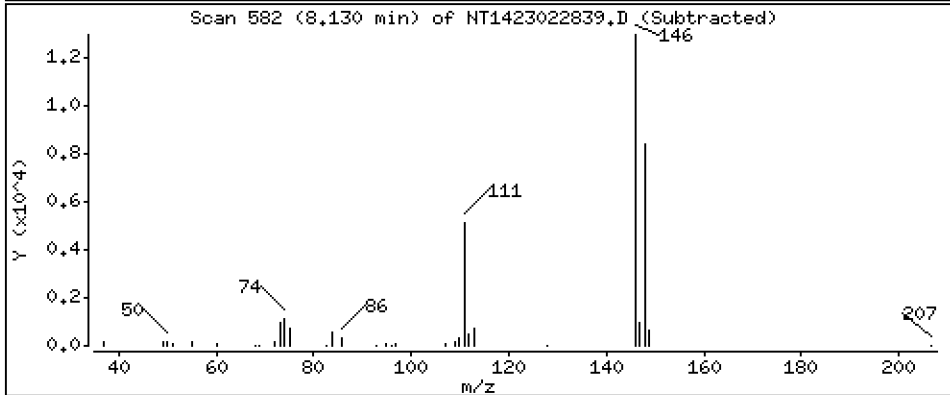
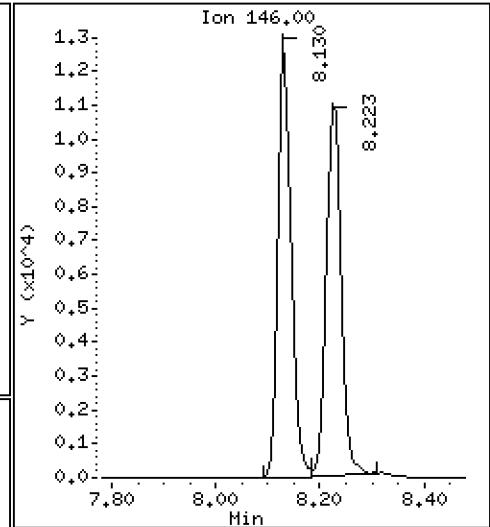
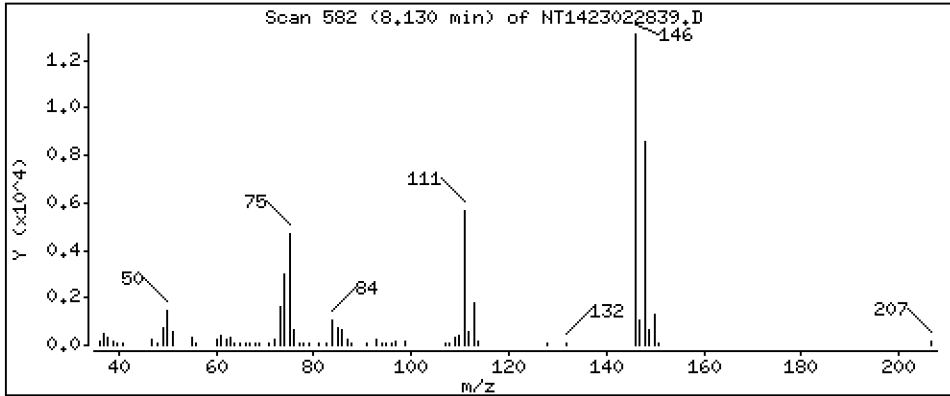
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

7 1,3-Dichlorobenzene

Concentration: 0,5195 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

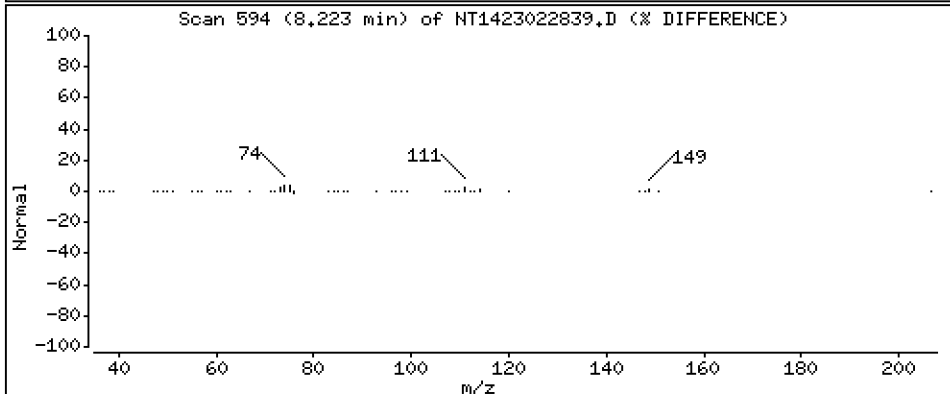
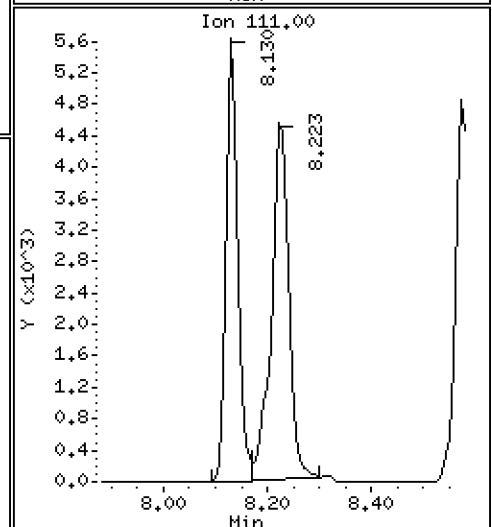
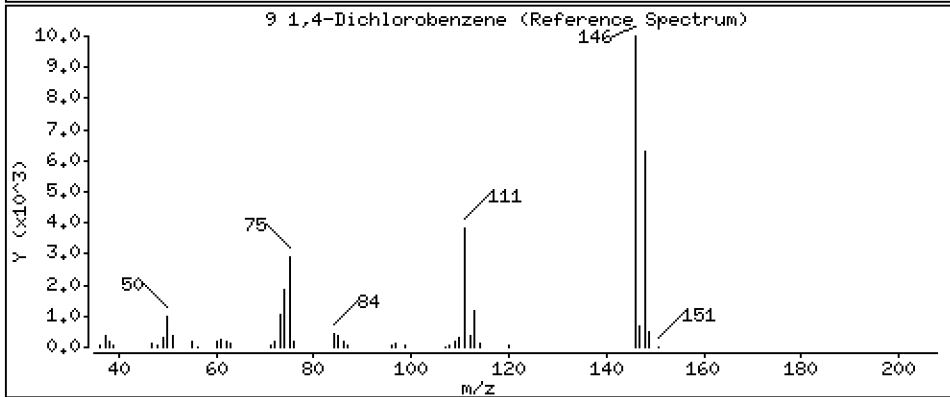
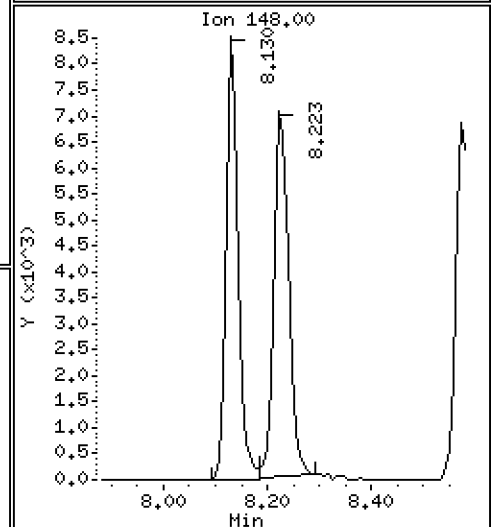
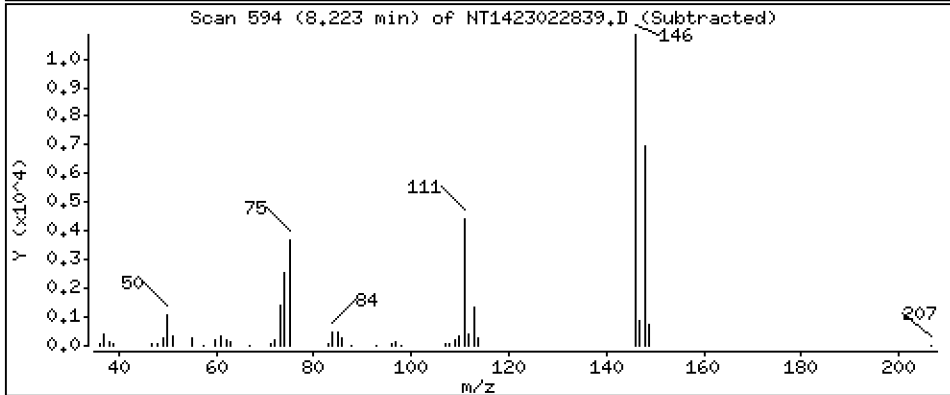
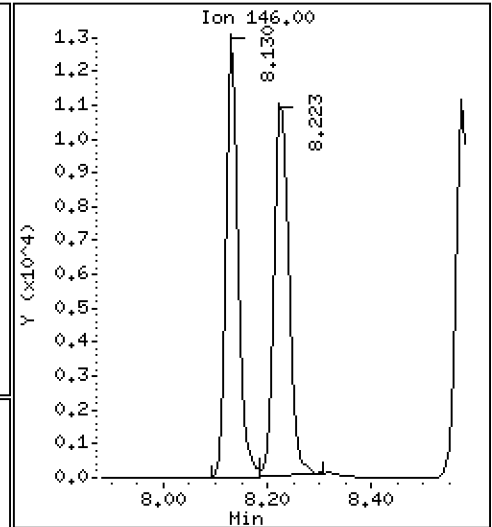
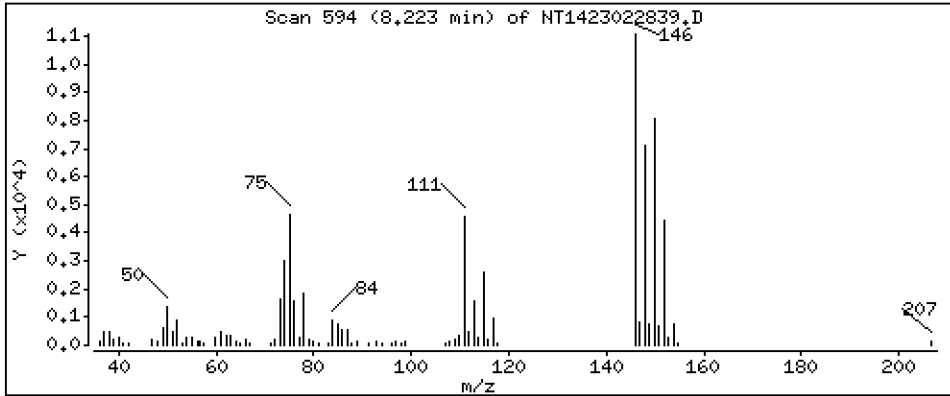
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 0,5009 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

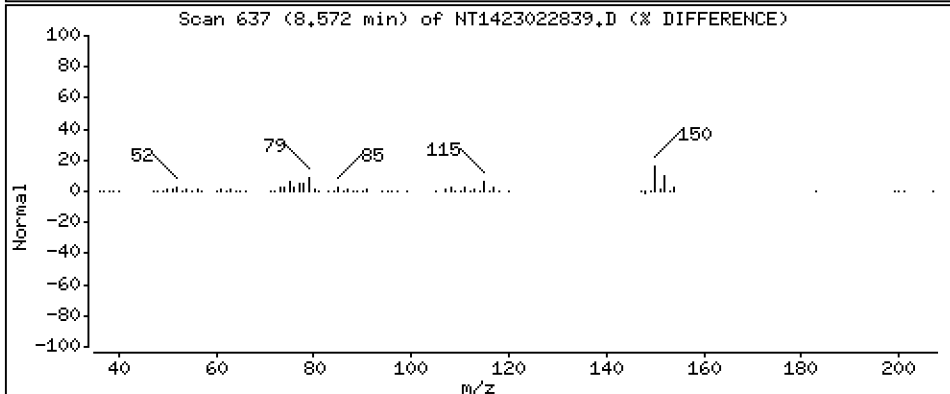
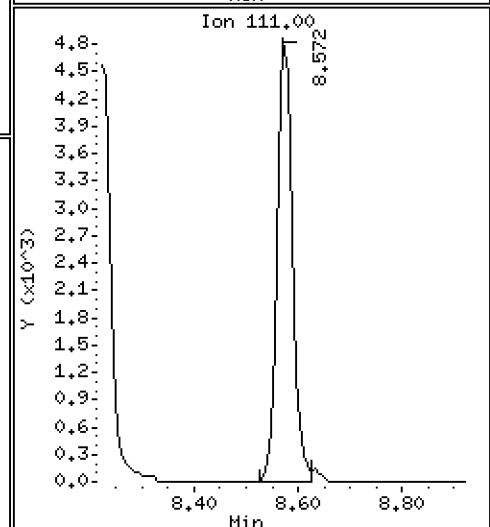
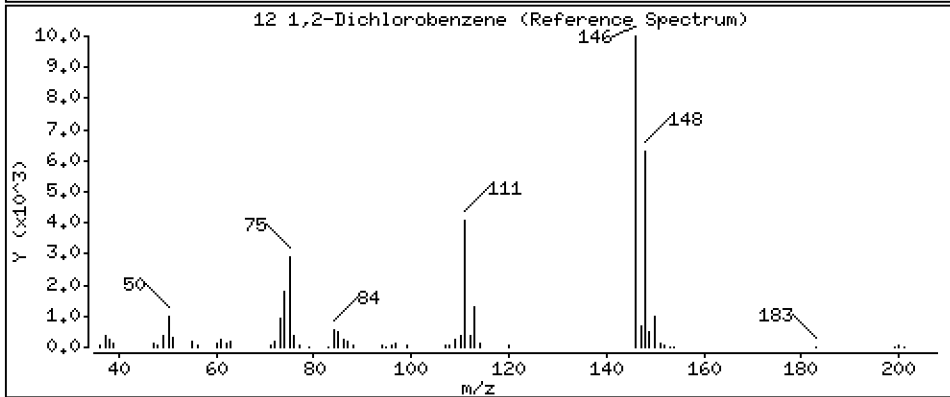
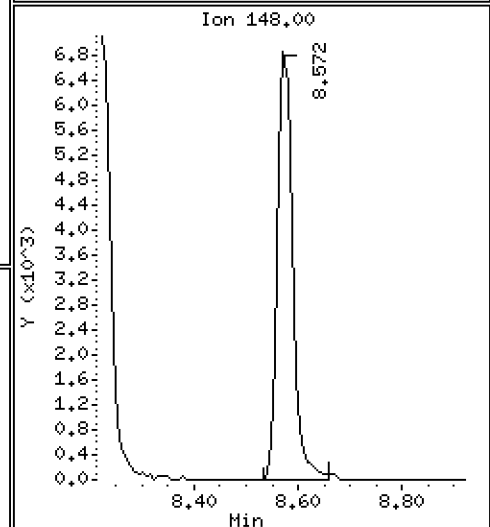
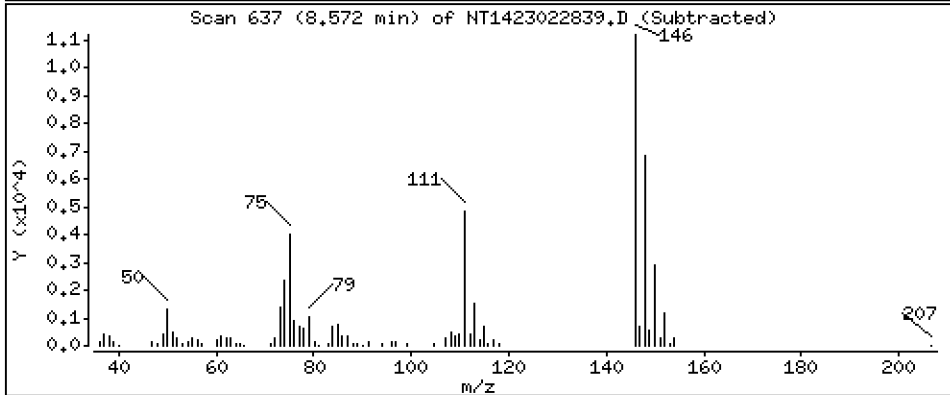
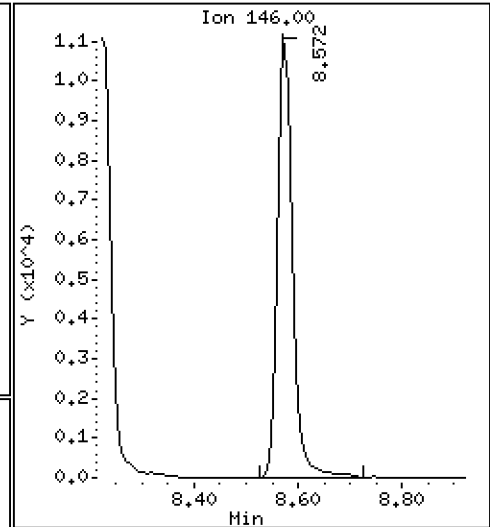
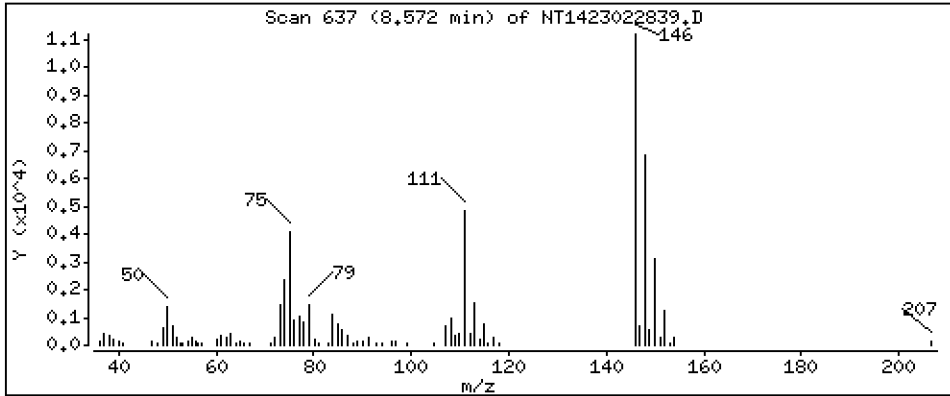
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

12 1,2-Dichlorobenzene

Concentration: 0,5300 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

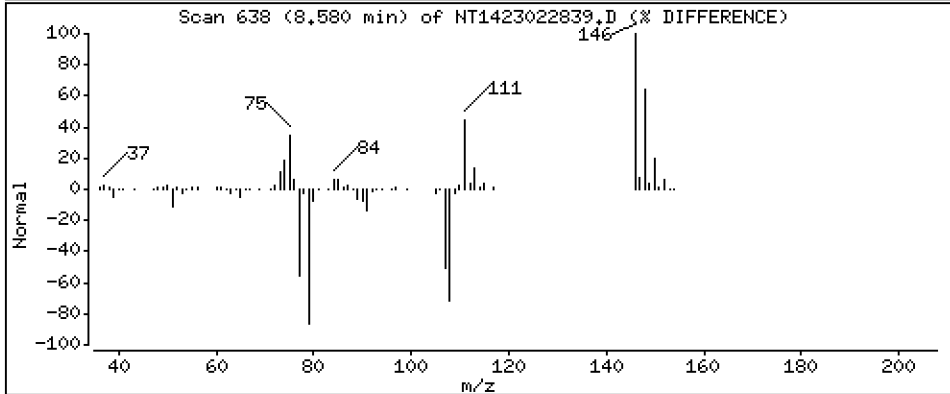
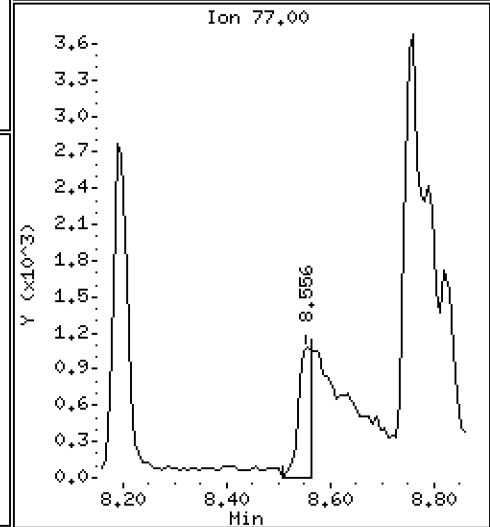
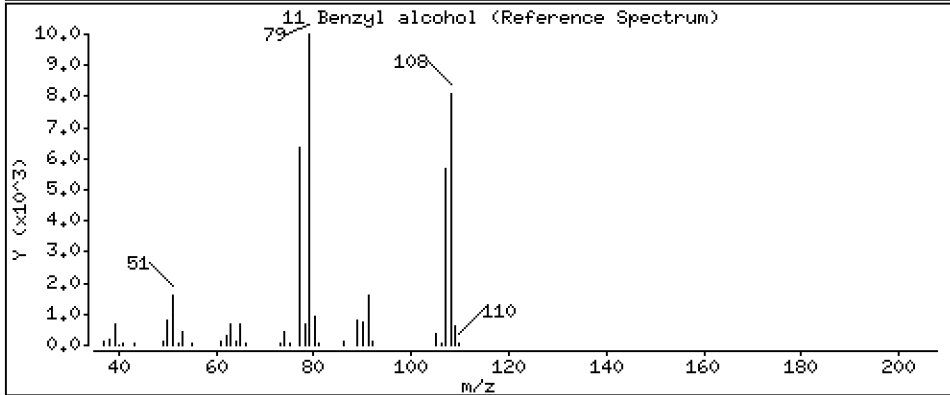
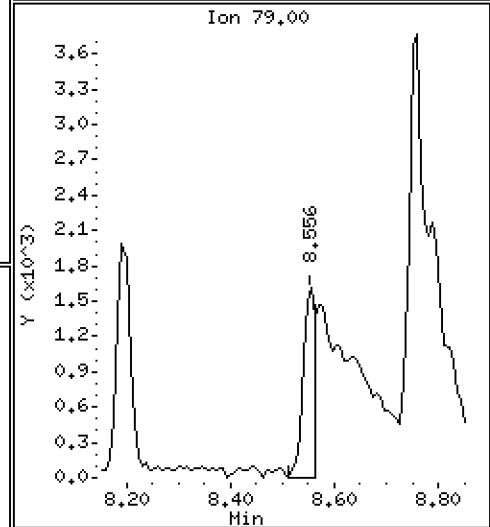
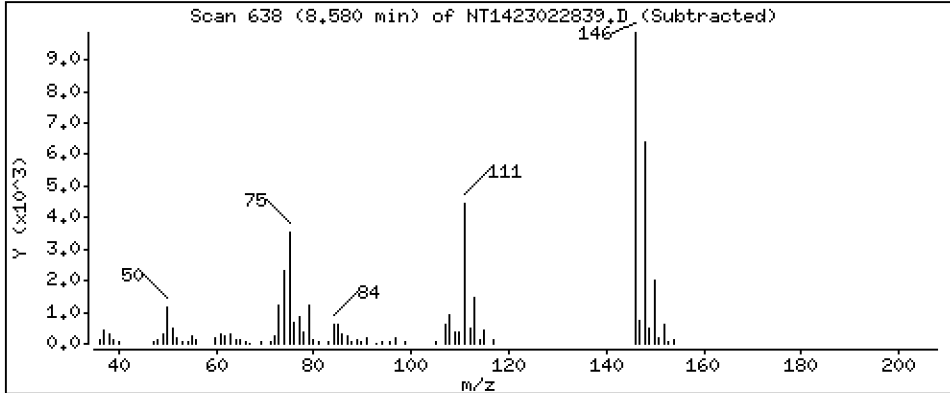
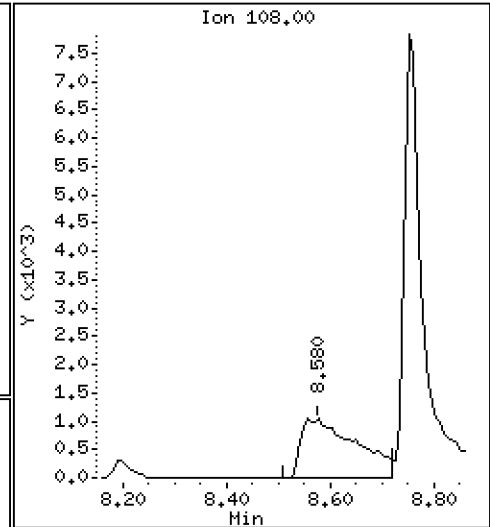
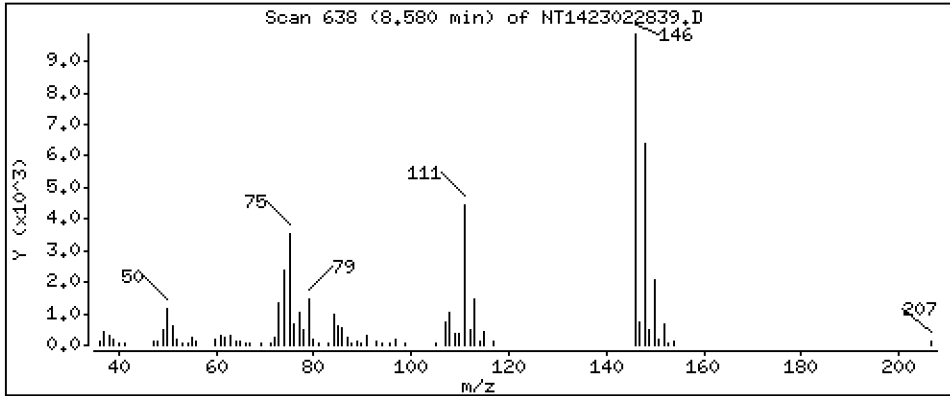
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 0.3329 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

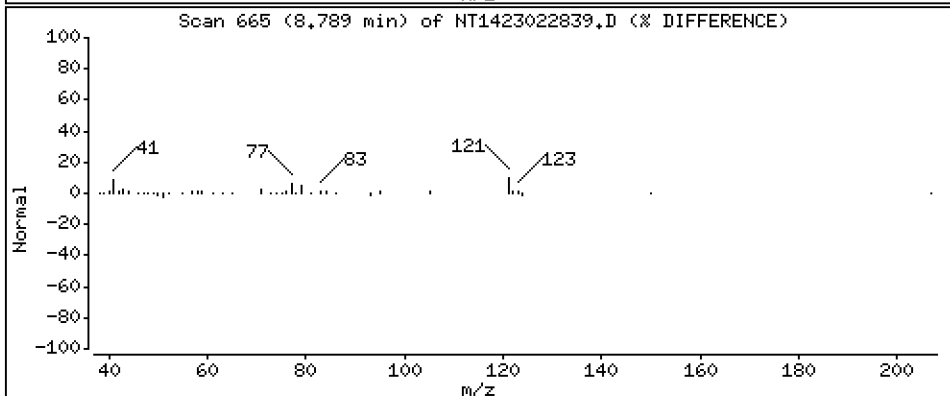
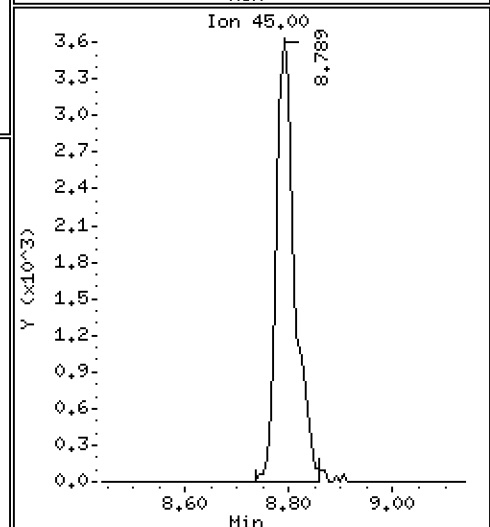
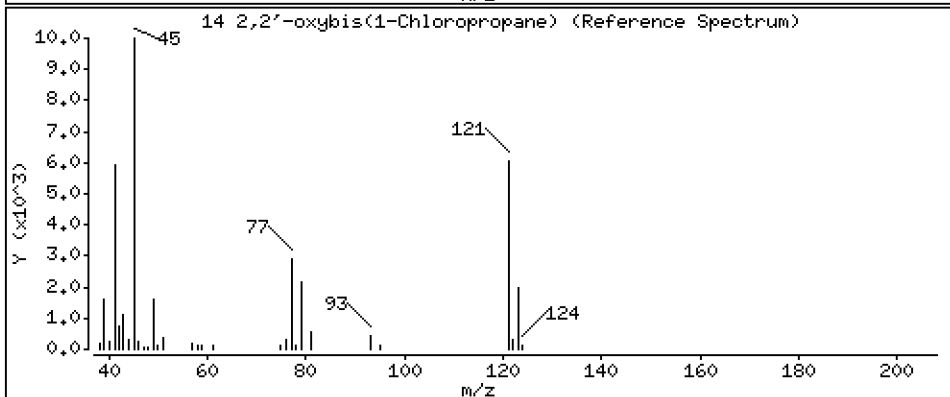
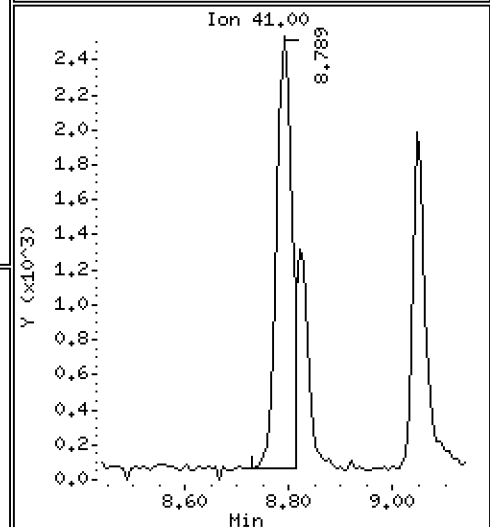
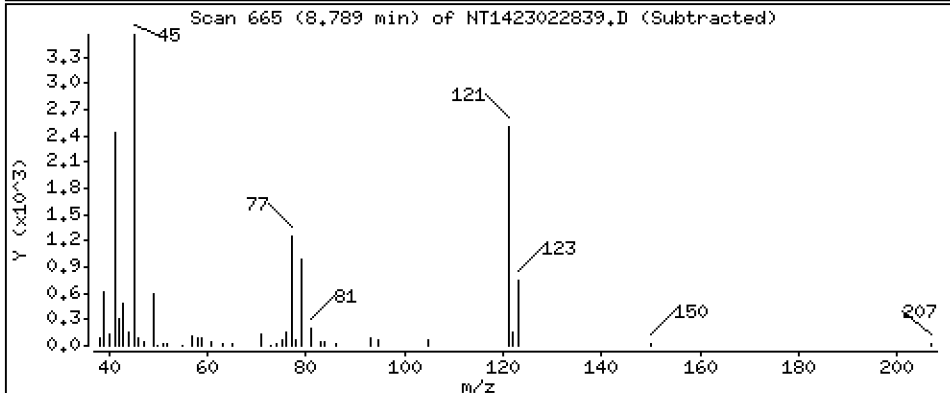
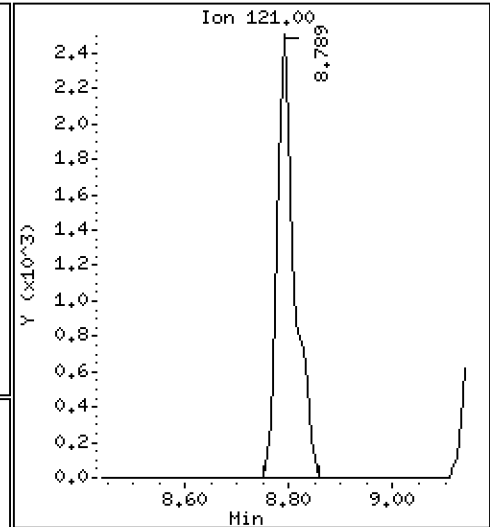
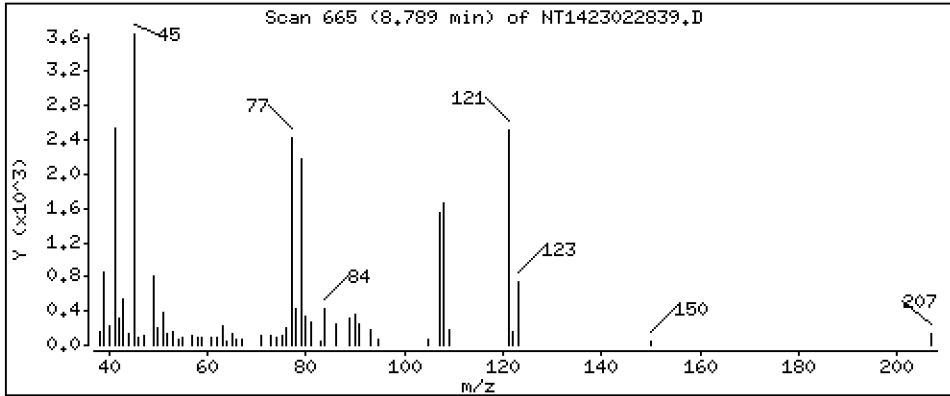
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 0,5223 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

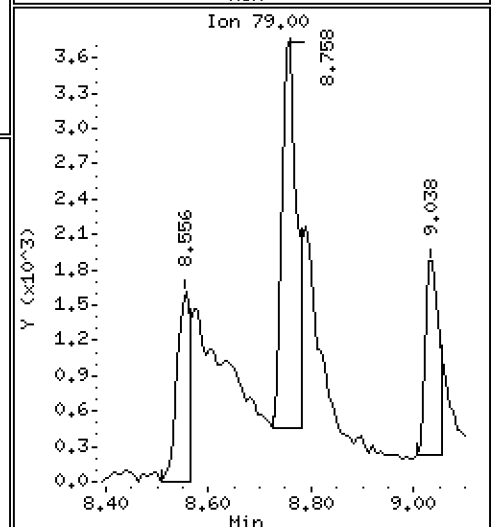
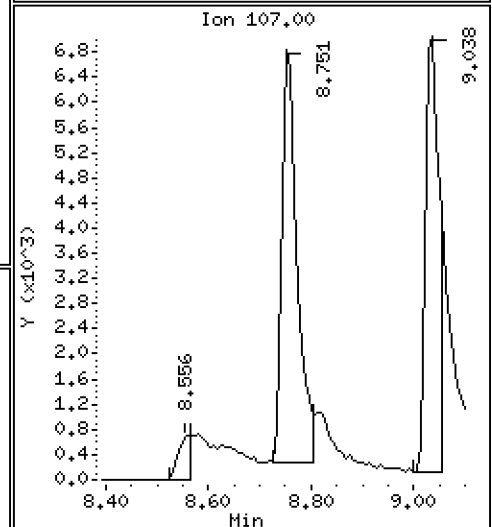
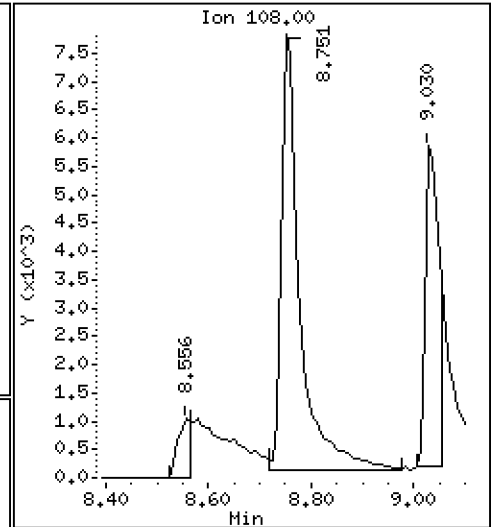
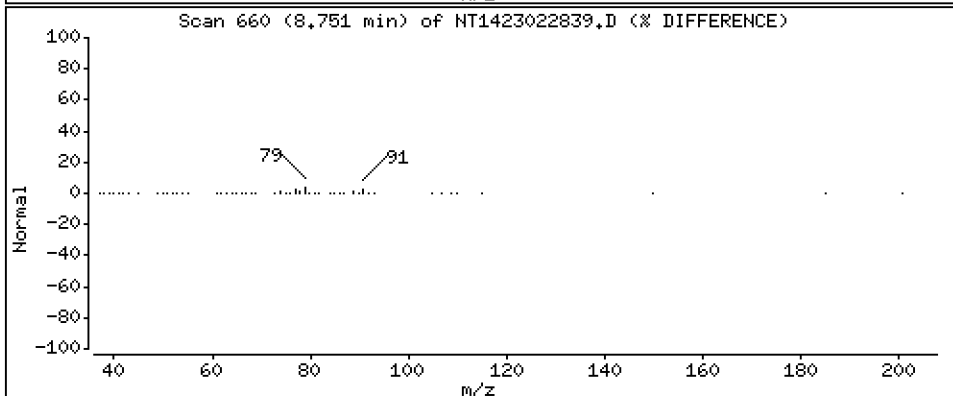
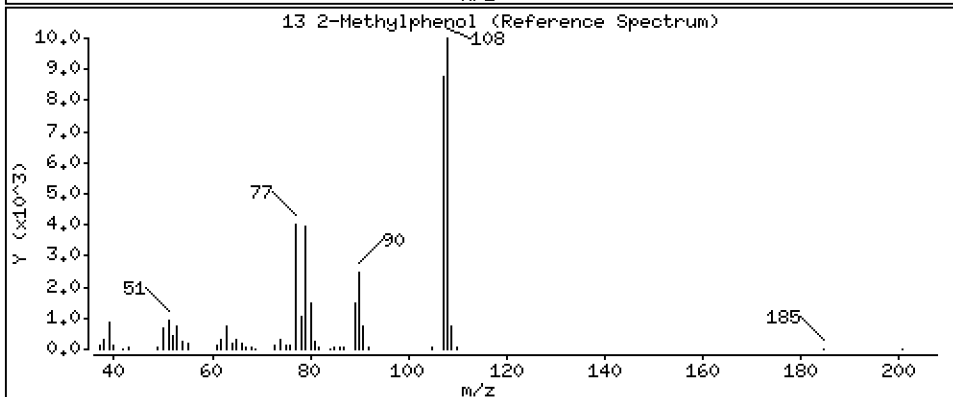
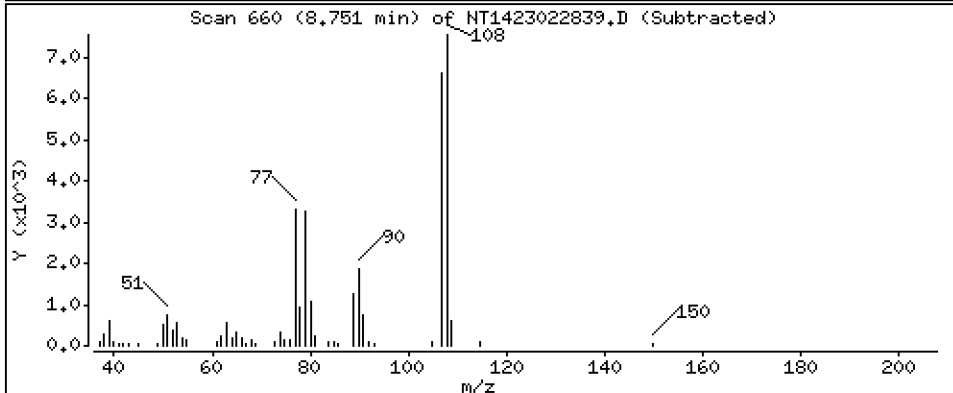
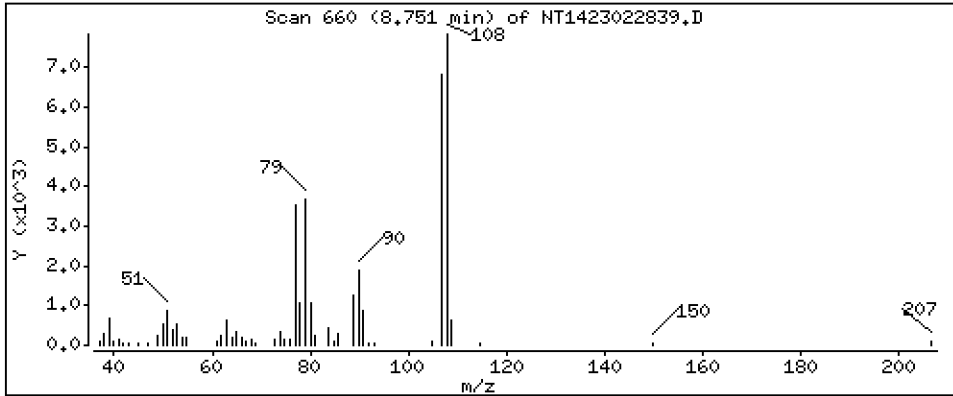
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

Concentration: 0.5917 ug/mL

13 2-Methylphenol



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

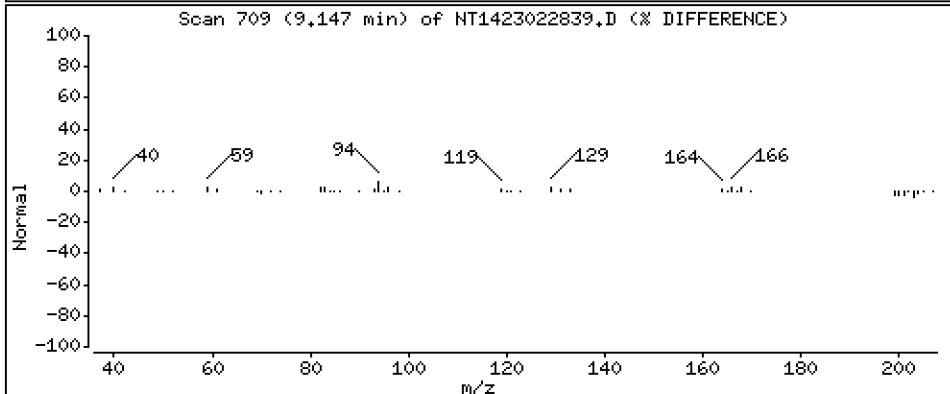
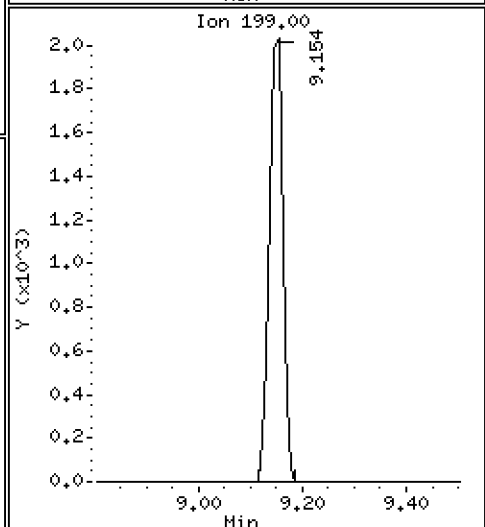
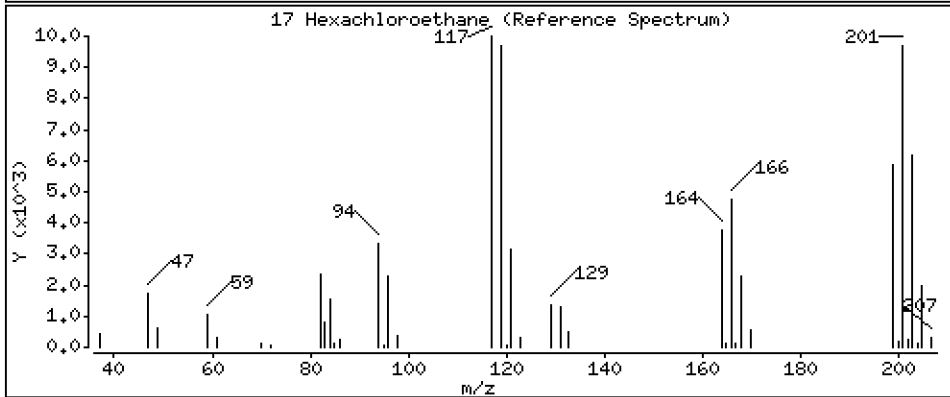
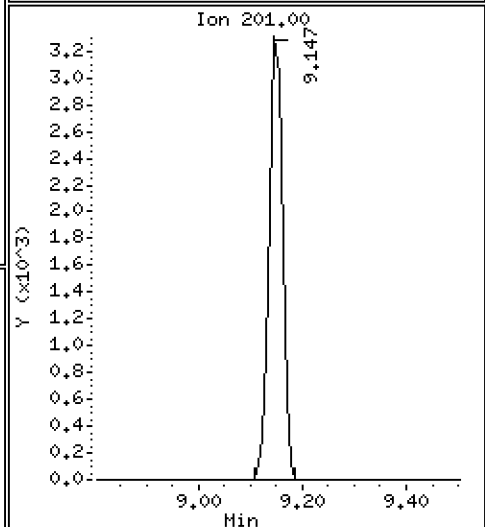
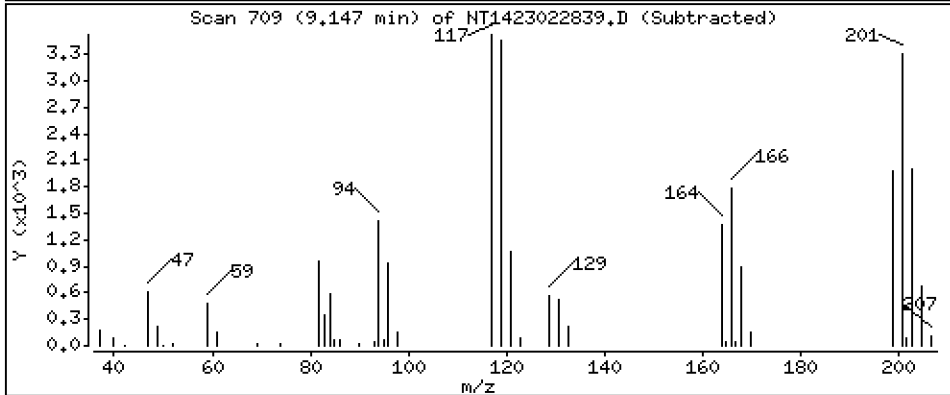
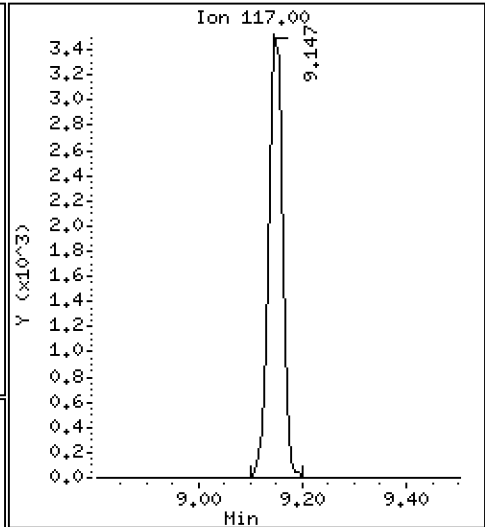
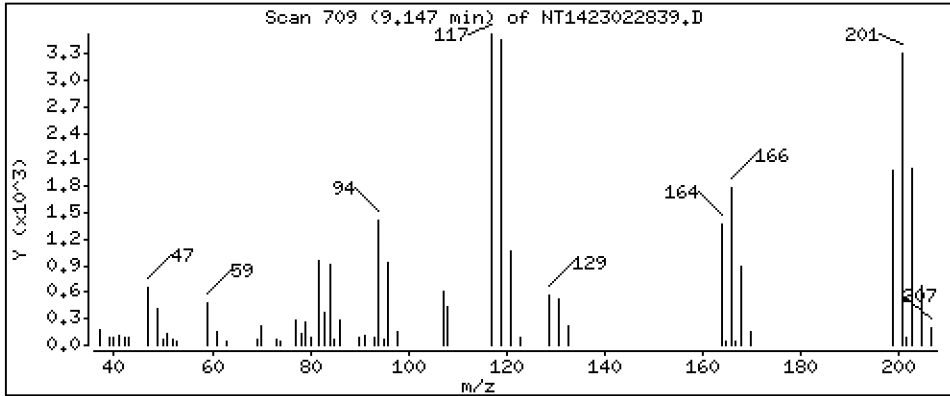
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

17 Hexachloroethane

Concentration: 0.3959 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

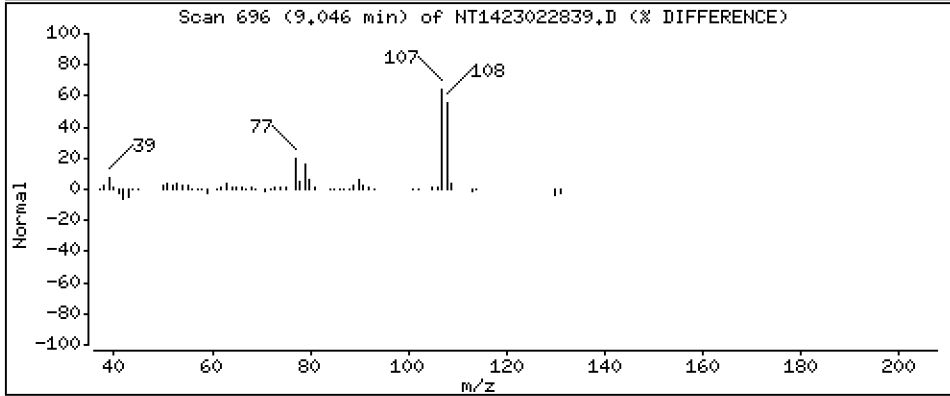
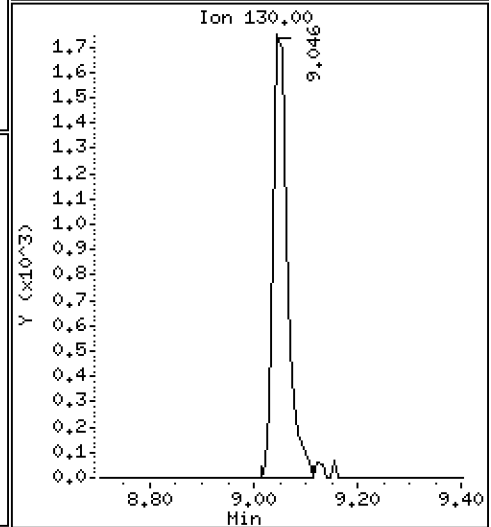
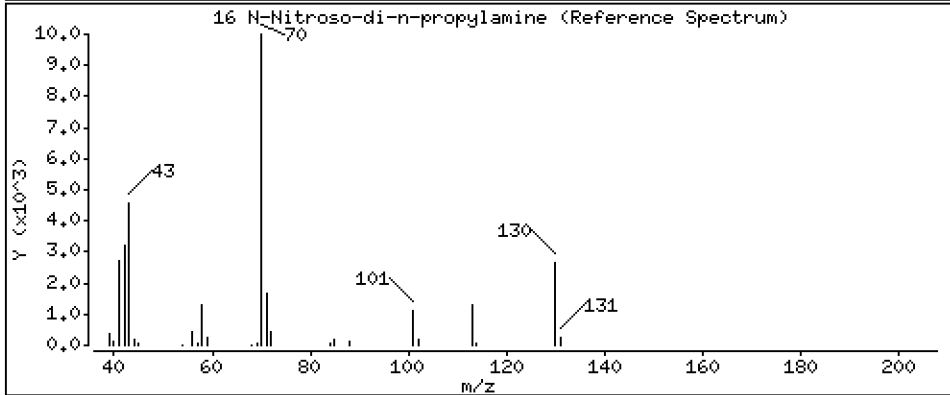
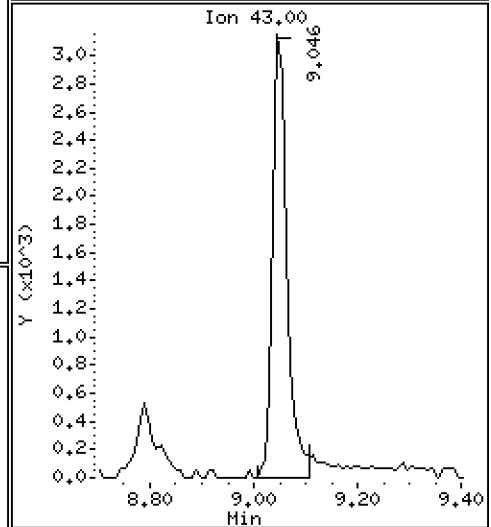
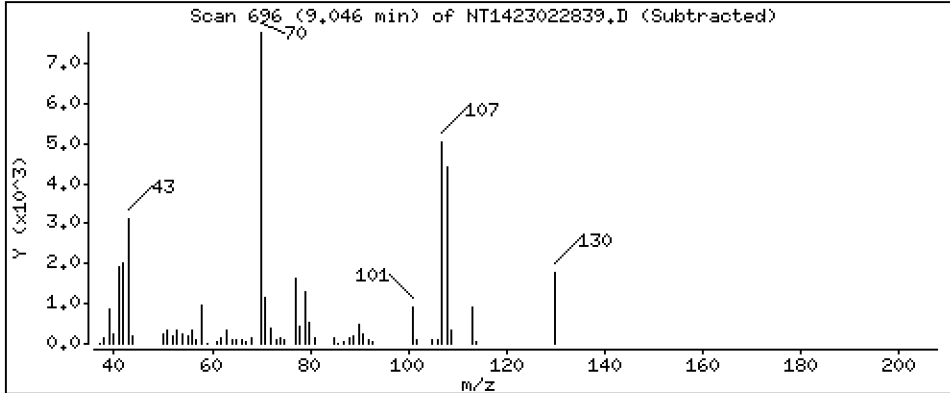
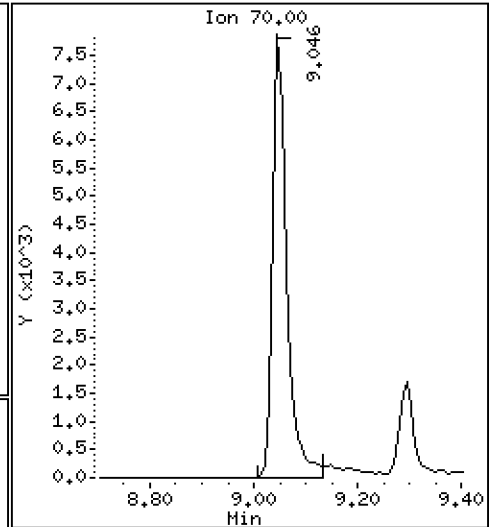
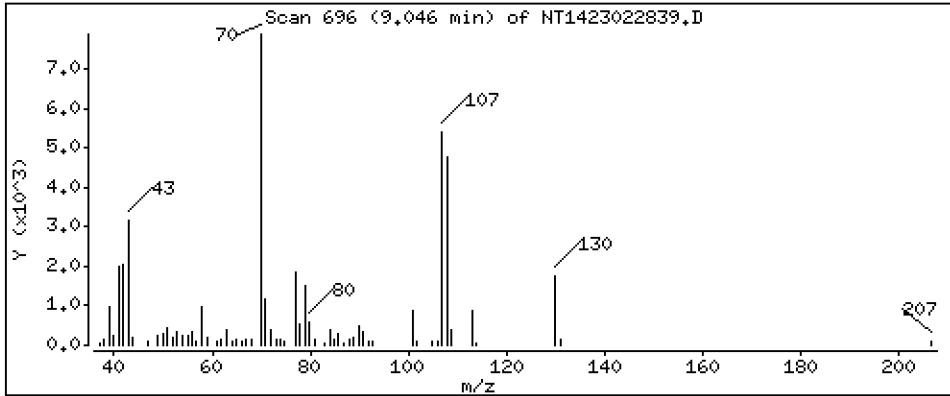
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

16 N-Nitroso-di-n-propylamine

Concentration: 0.5593 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

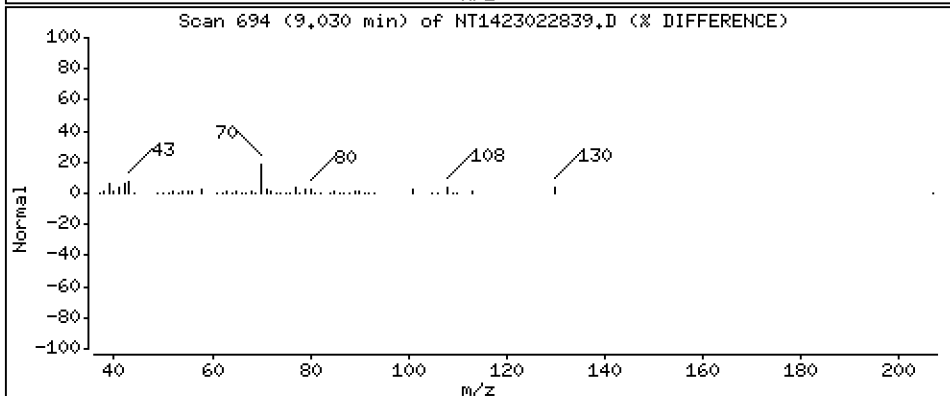
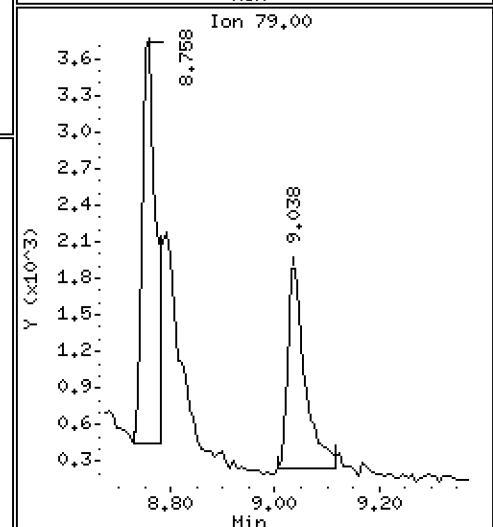
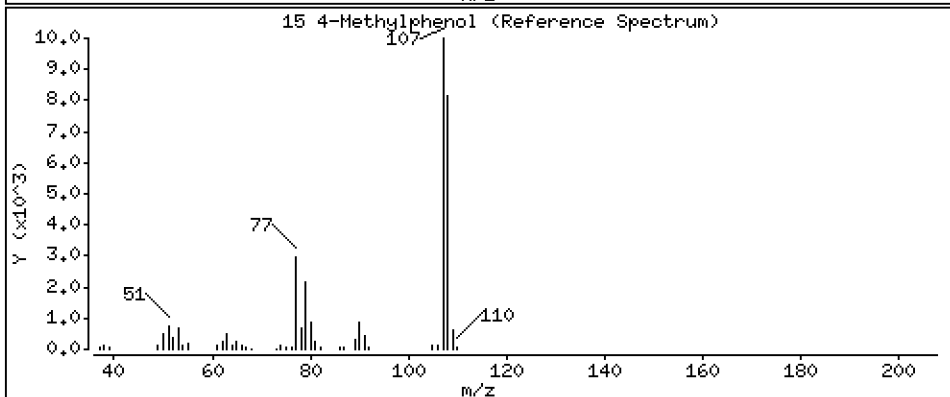
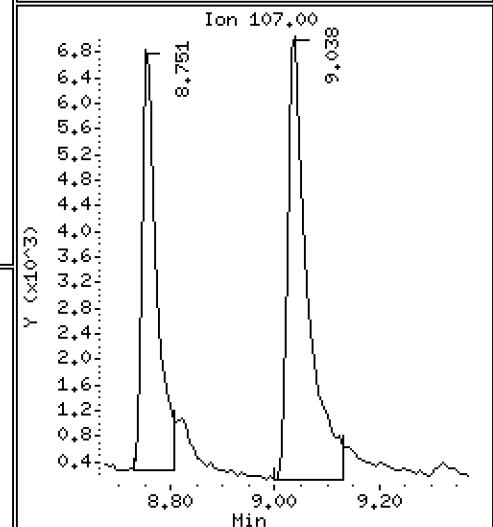
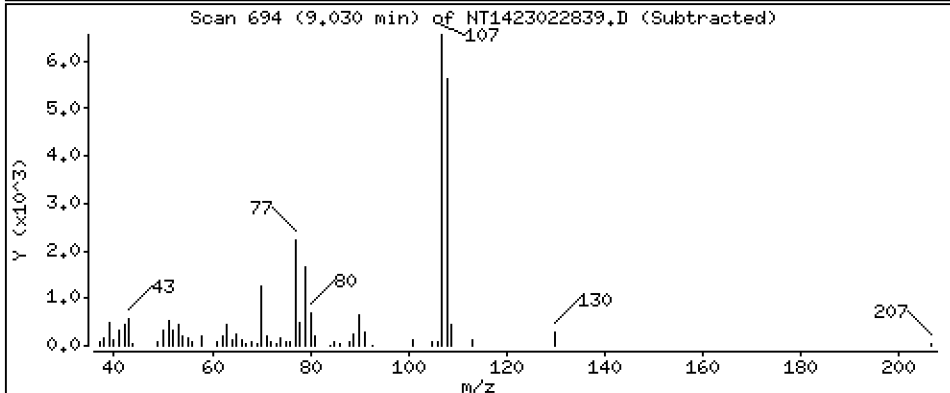
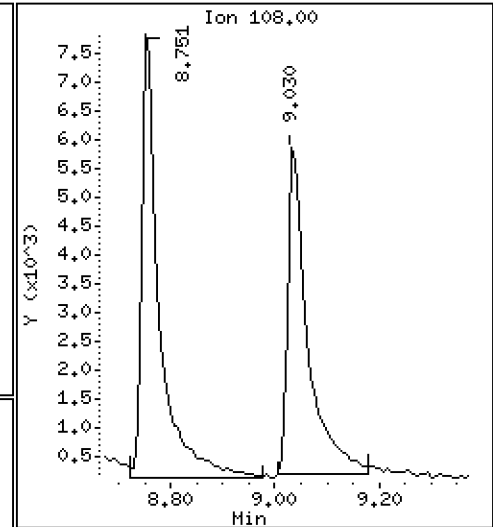
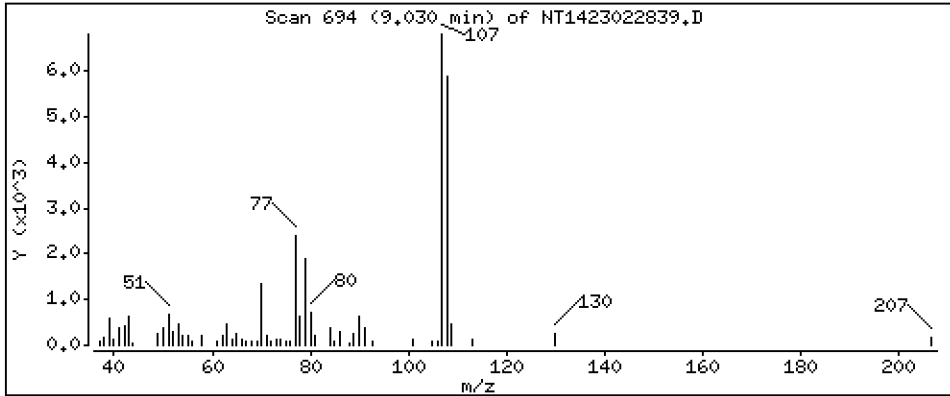
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 0.4047 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

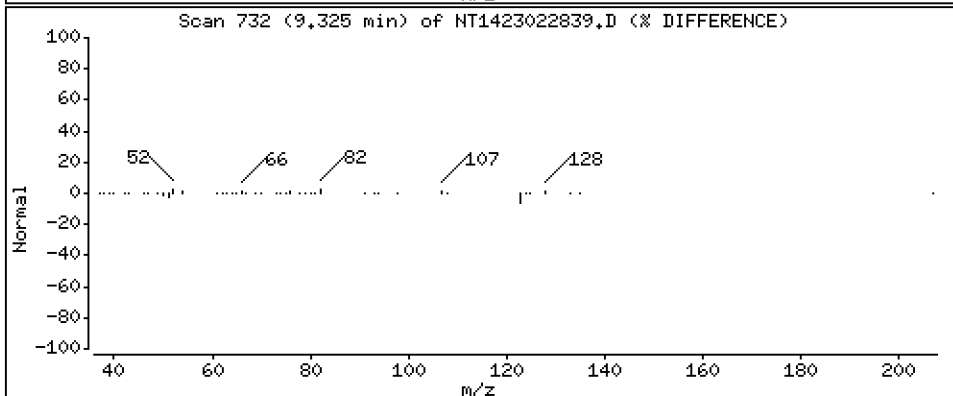
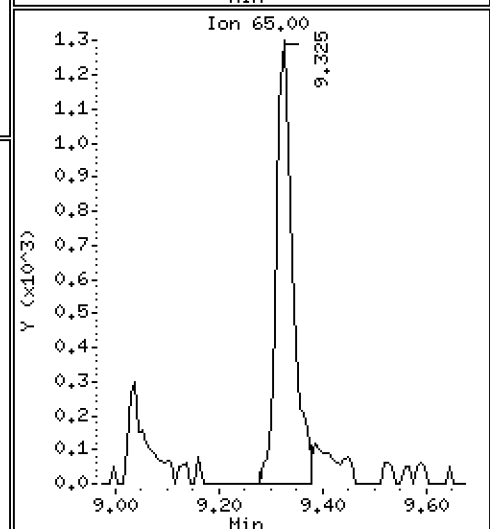
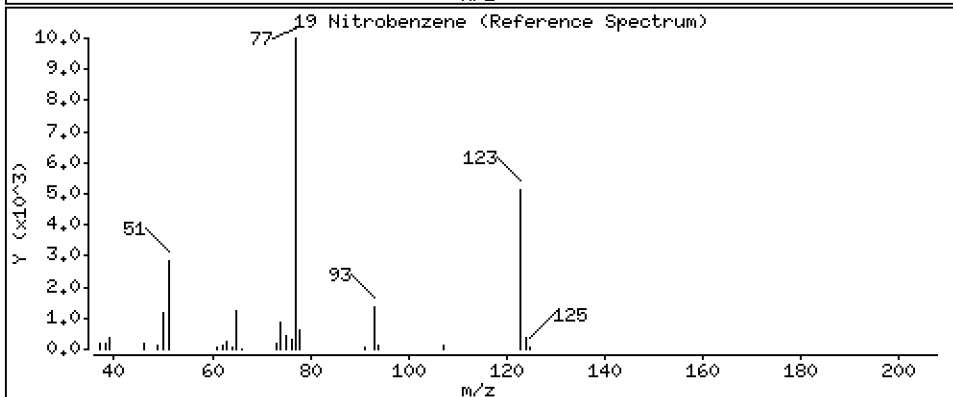
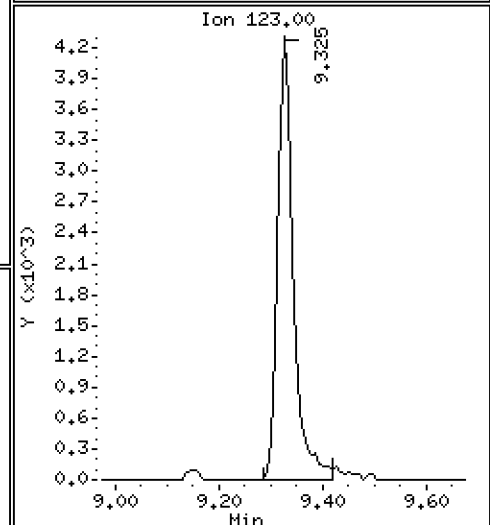
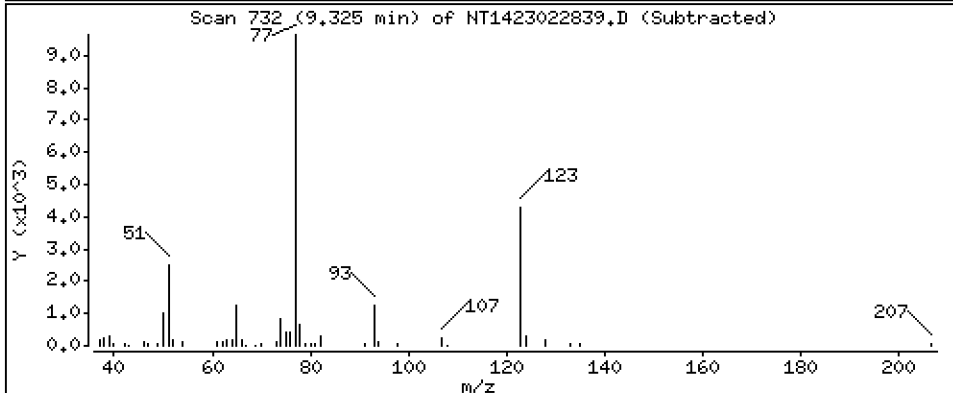
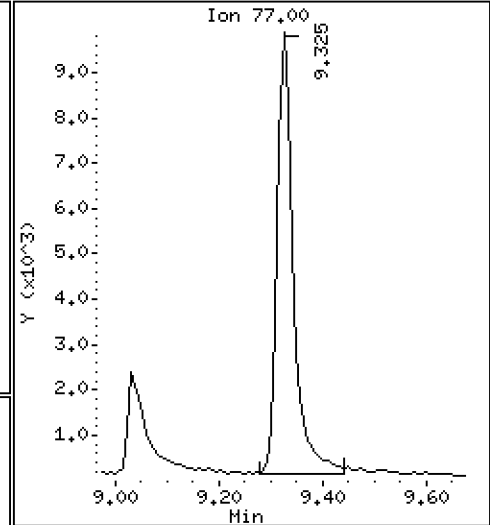
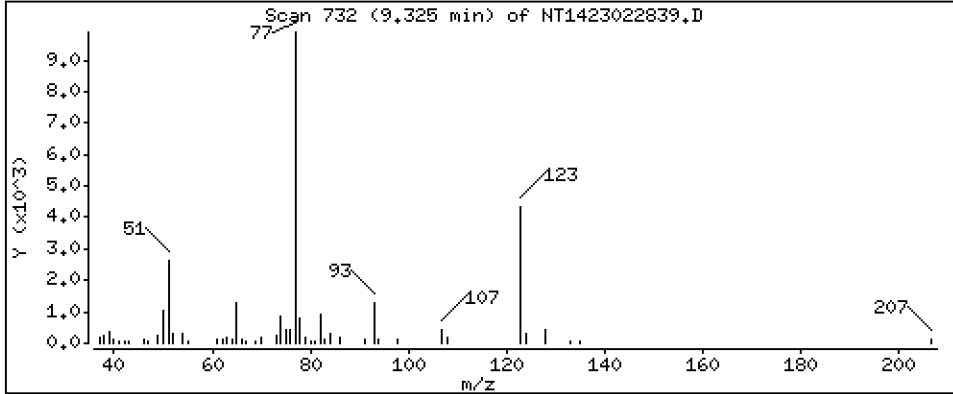
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

Concentration: 0,5354 ug/mL

19 Nitrobenzene



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

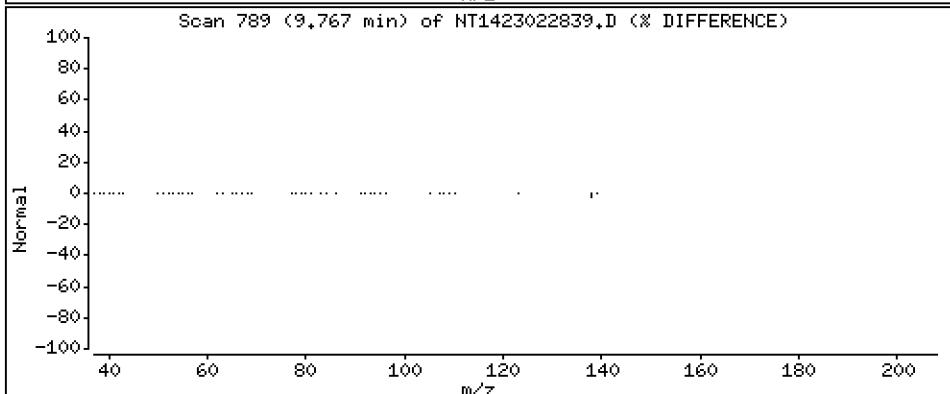
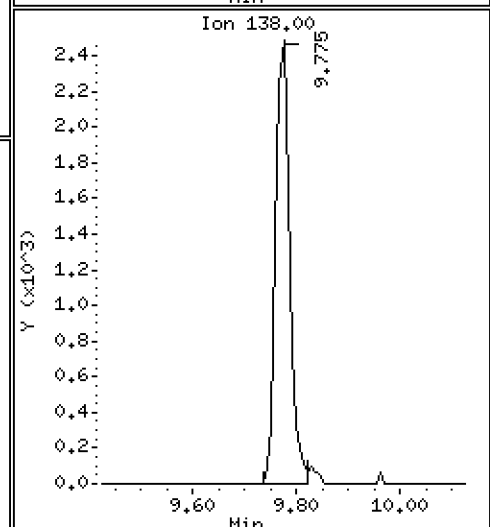
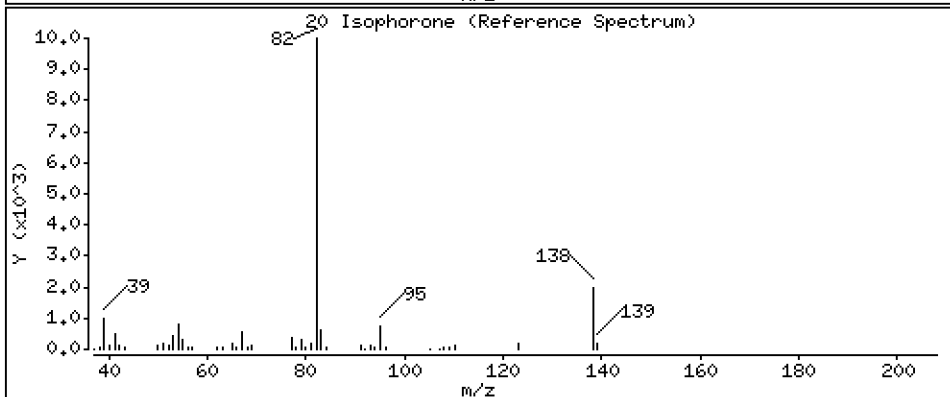
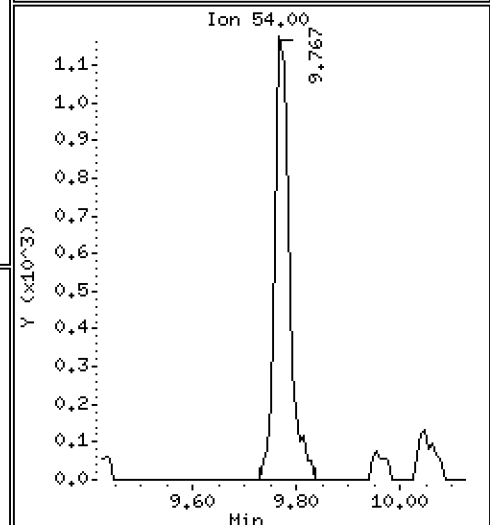
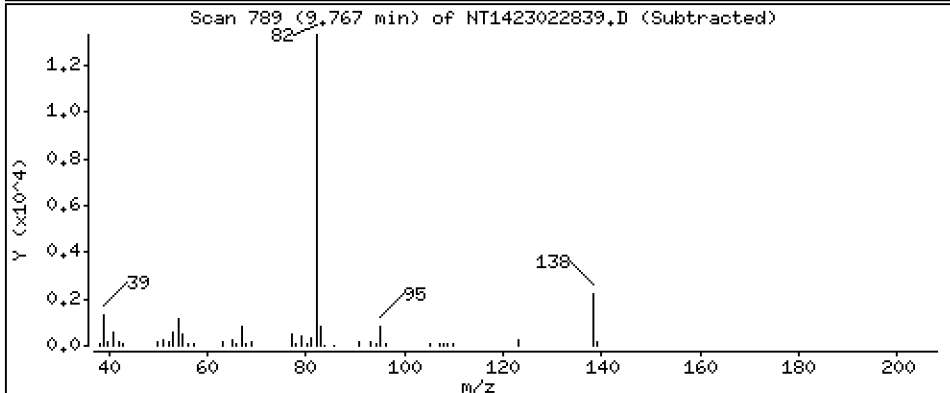
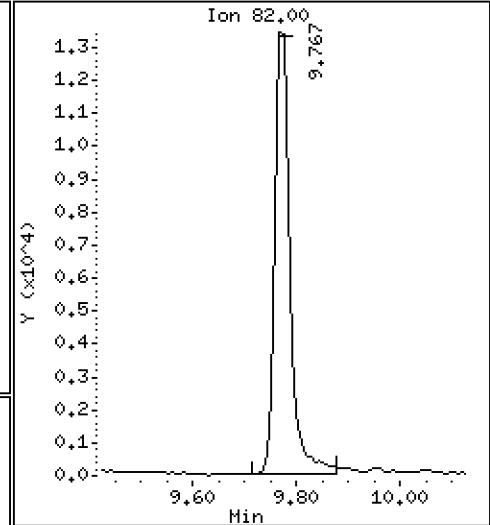
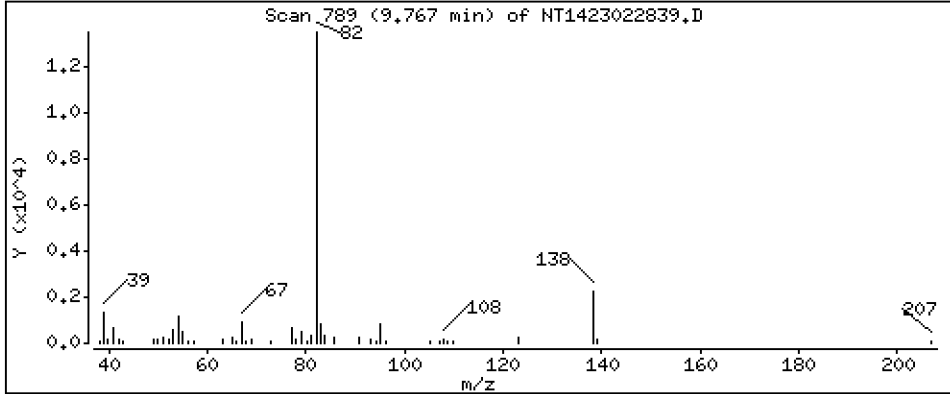
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

20 Isophorone

Concentration: 0.4431 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

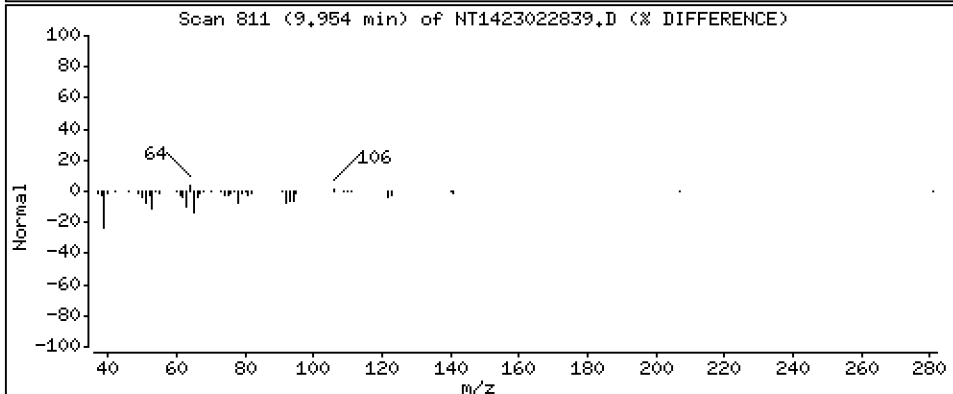
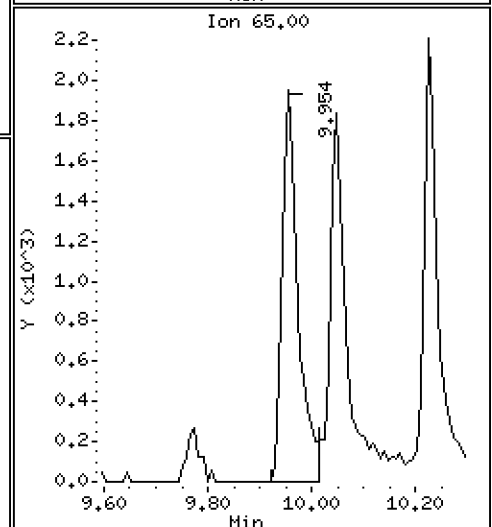
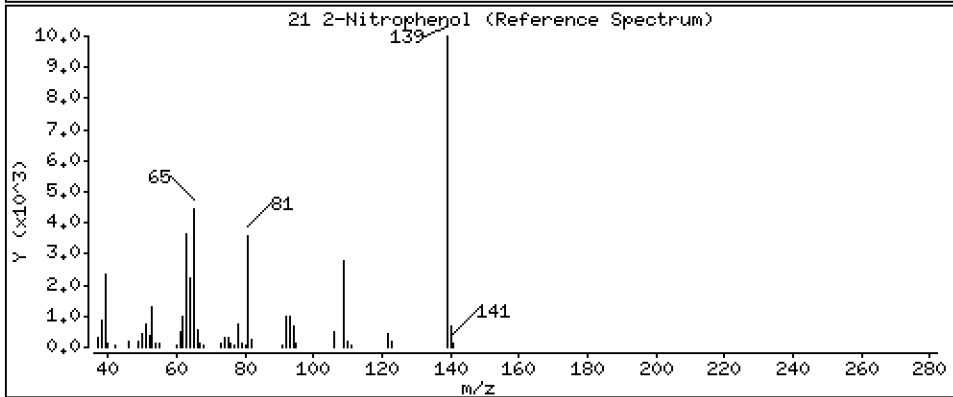
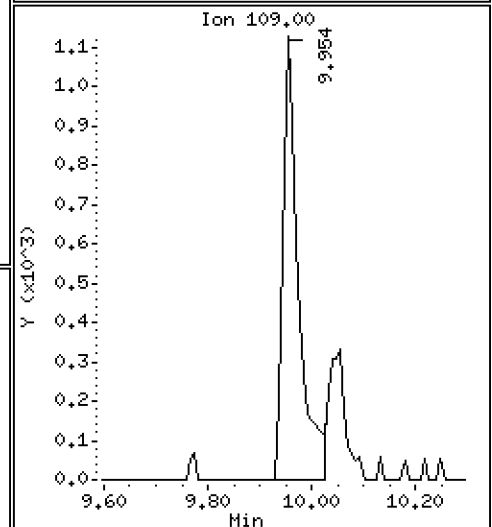
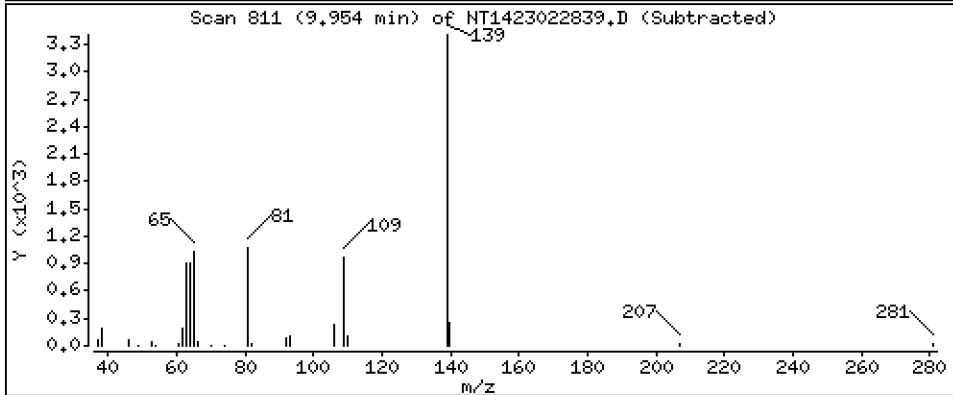
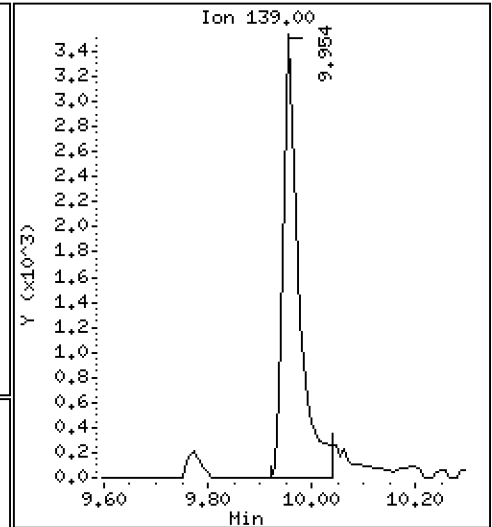
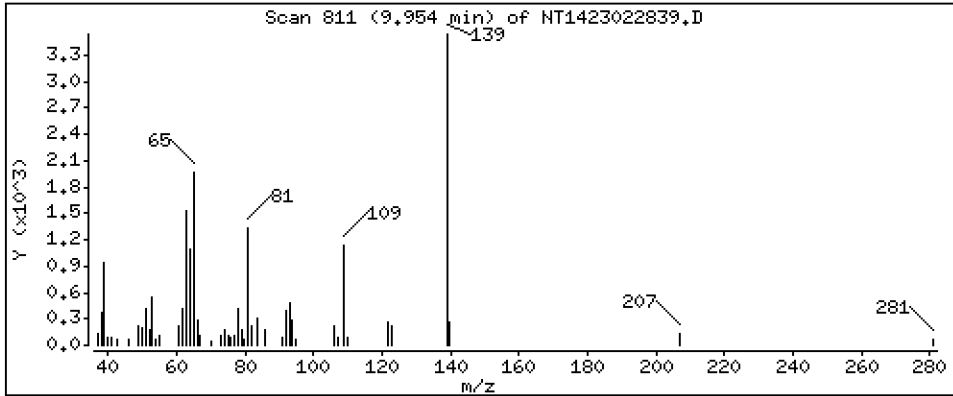
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

21 2-Nitrophenol

Concentration: 0.3848 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

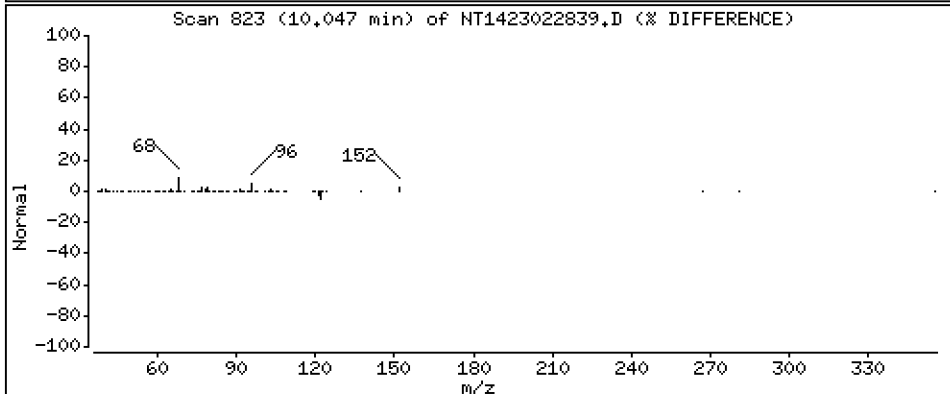
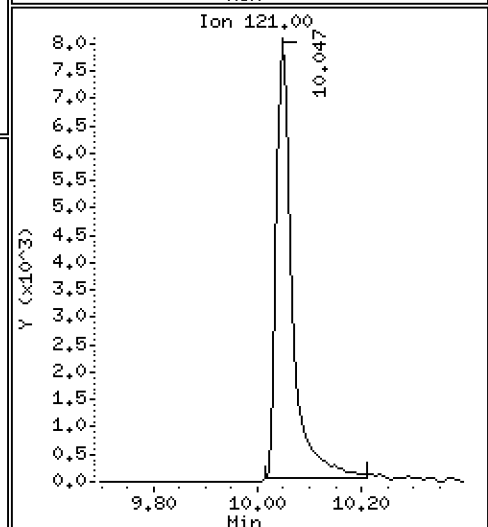
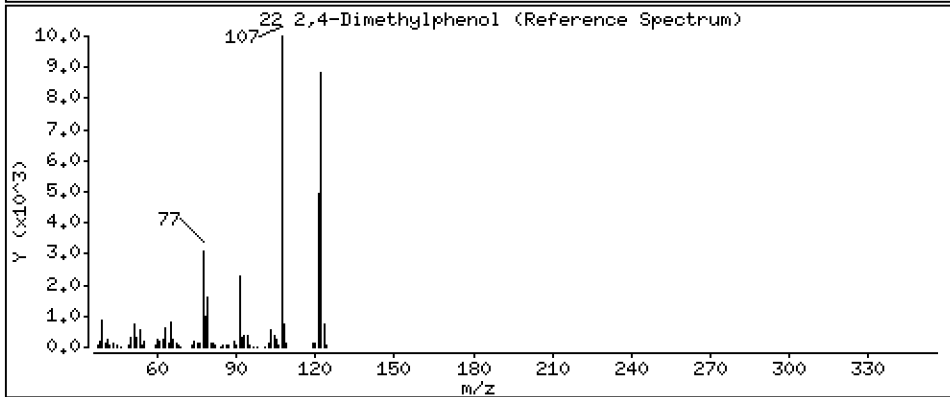
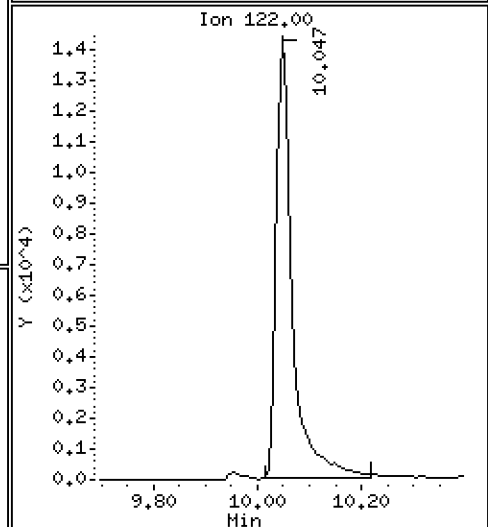
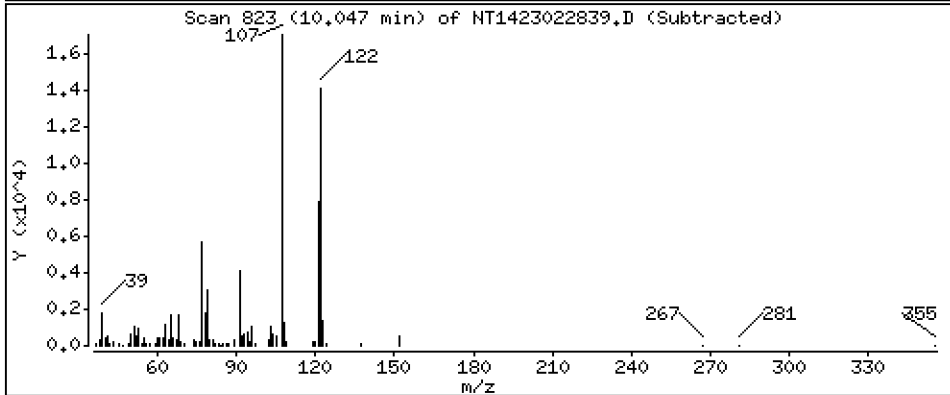
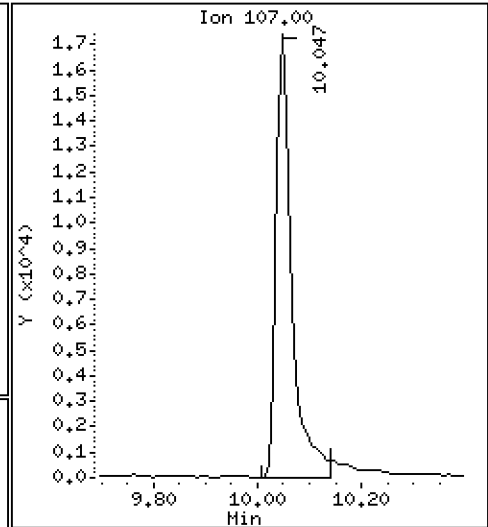
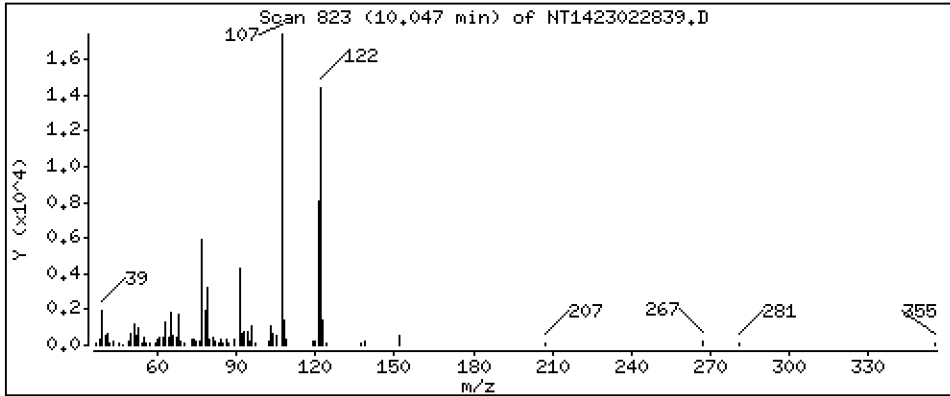
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 1,025 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

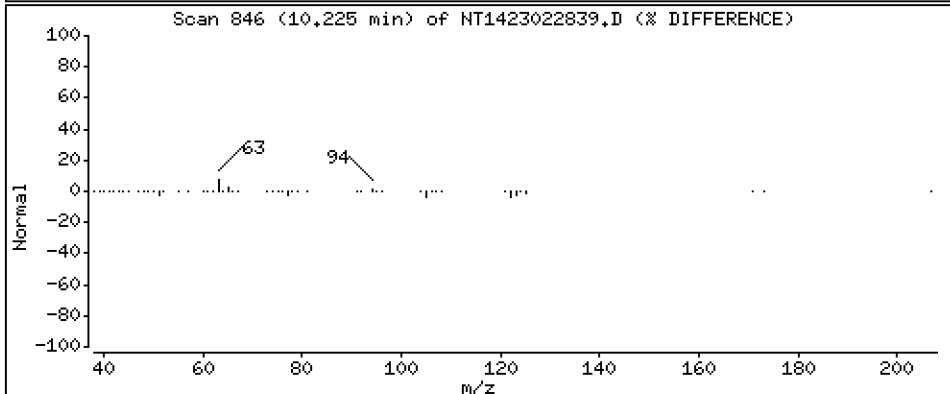
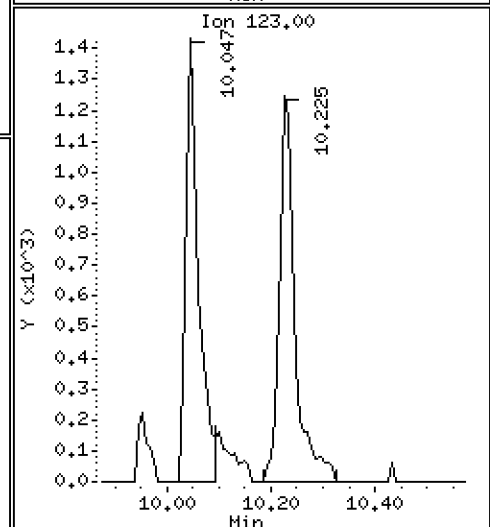
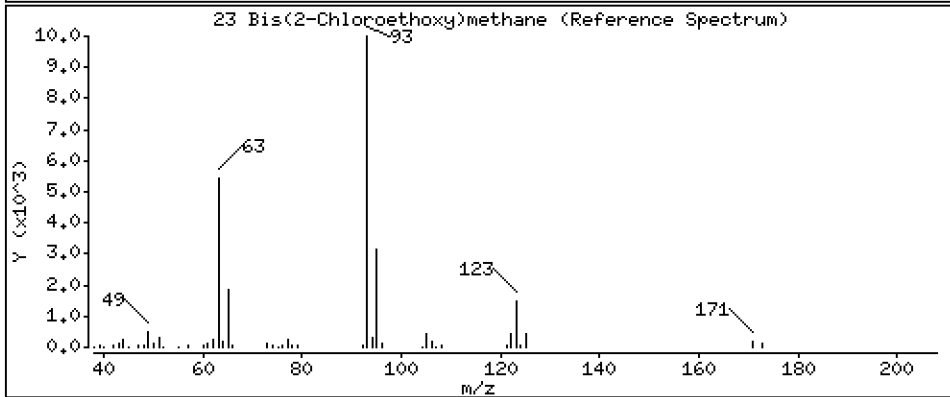
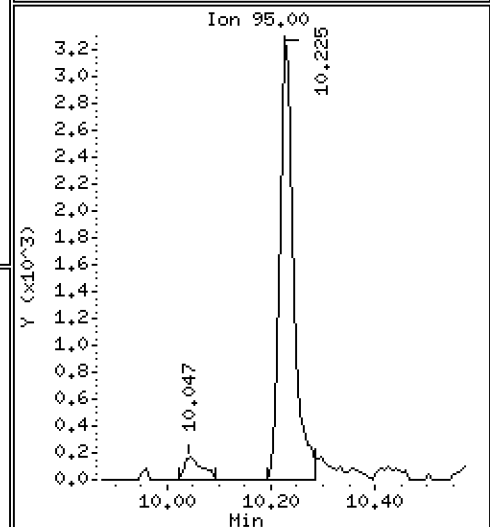
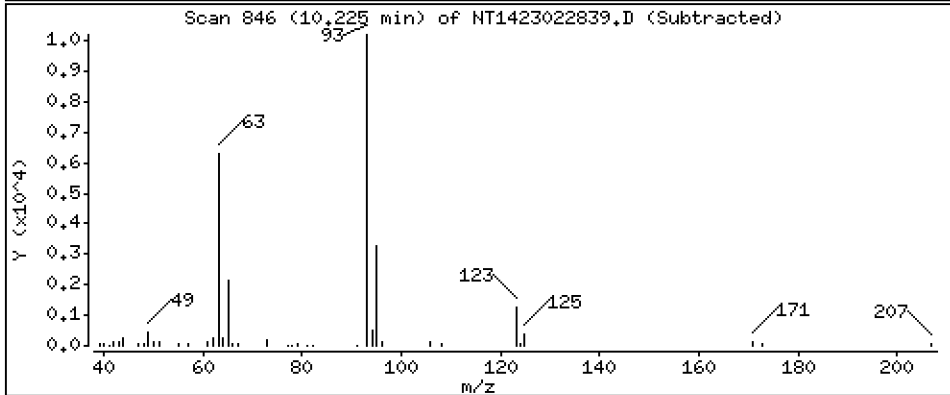
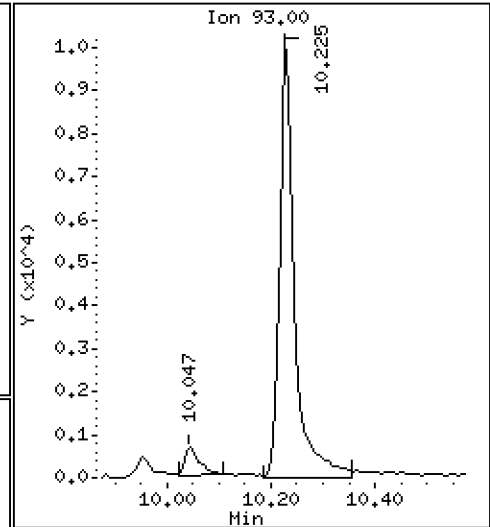
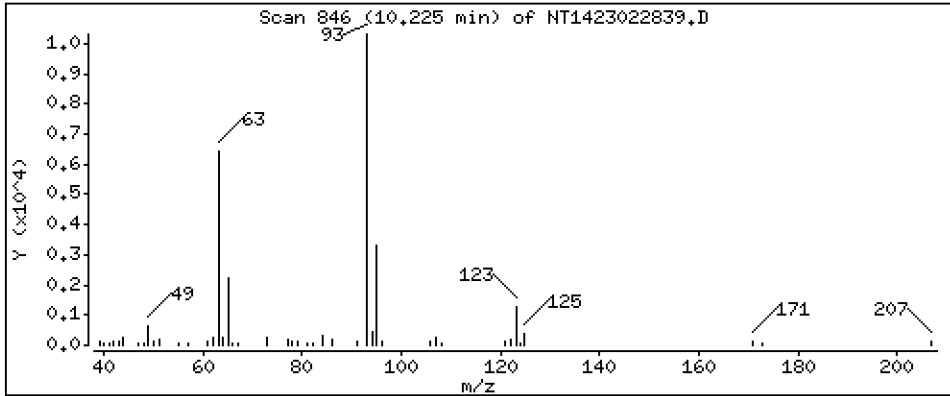
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

23 Bis(2-Chloroethoxy)methane

Concentration: 0.5299 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

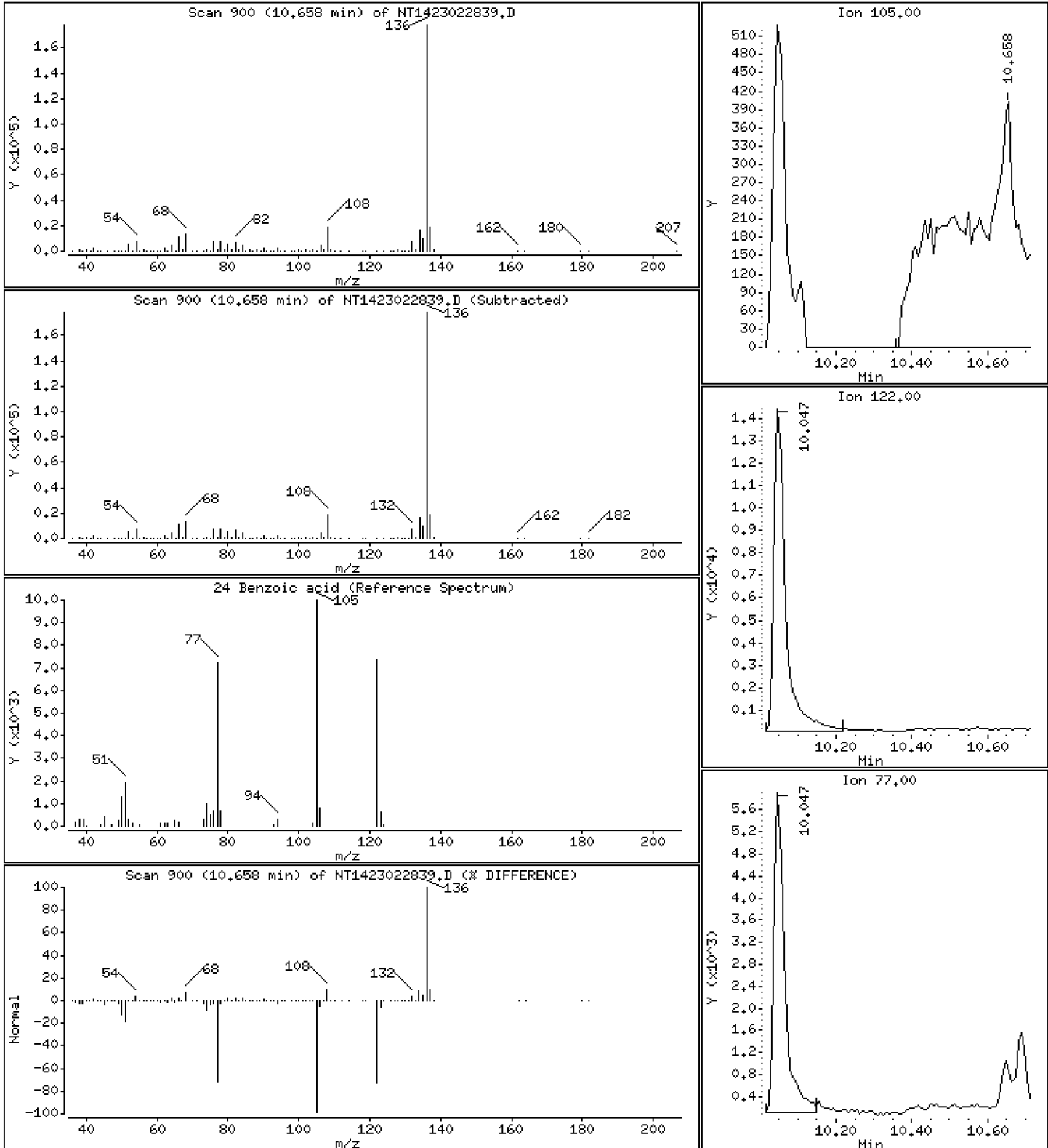
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

24 Benzoic acid

Concentration: 0,9092 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

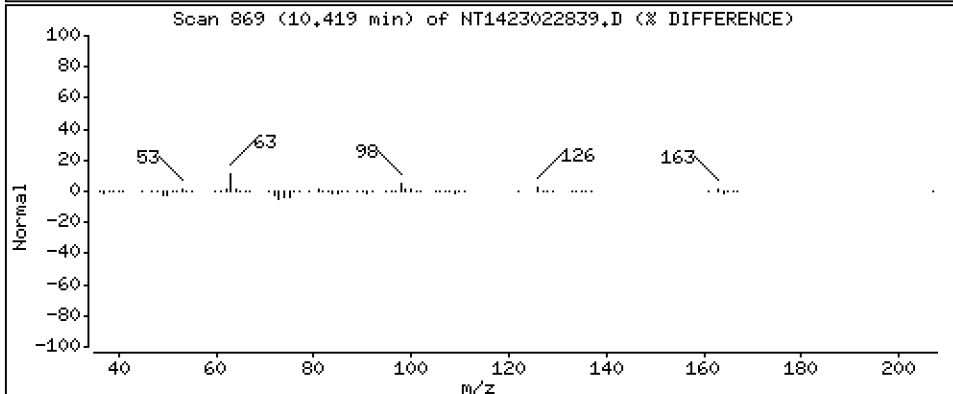
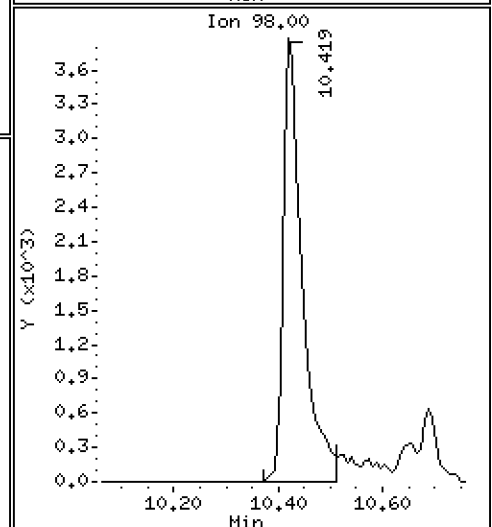
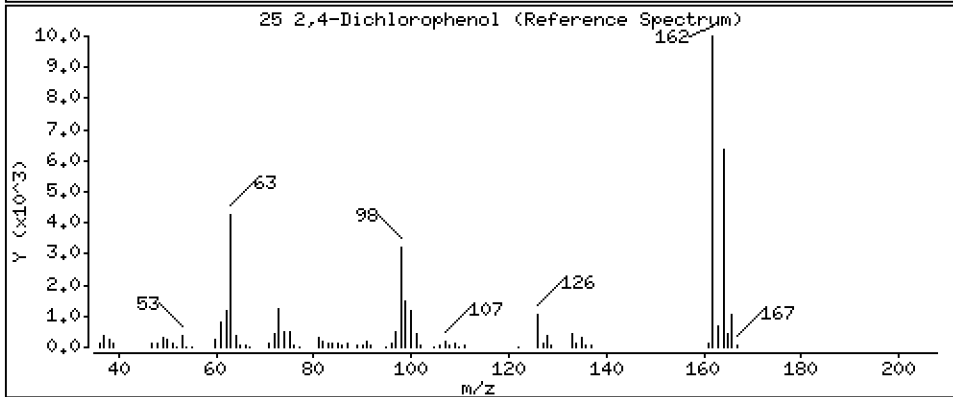
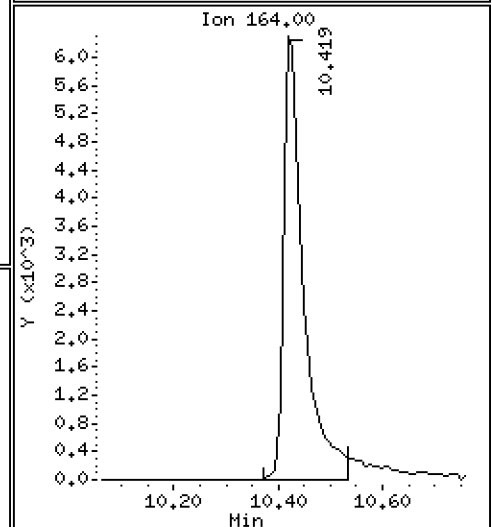
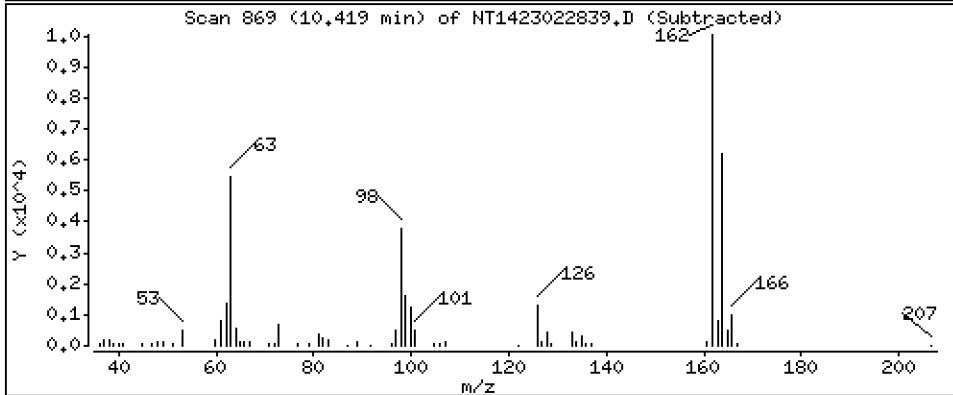
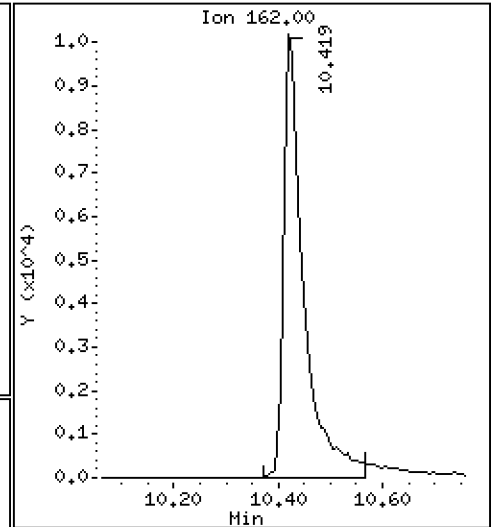
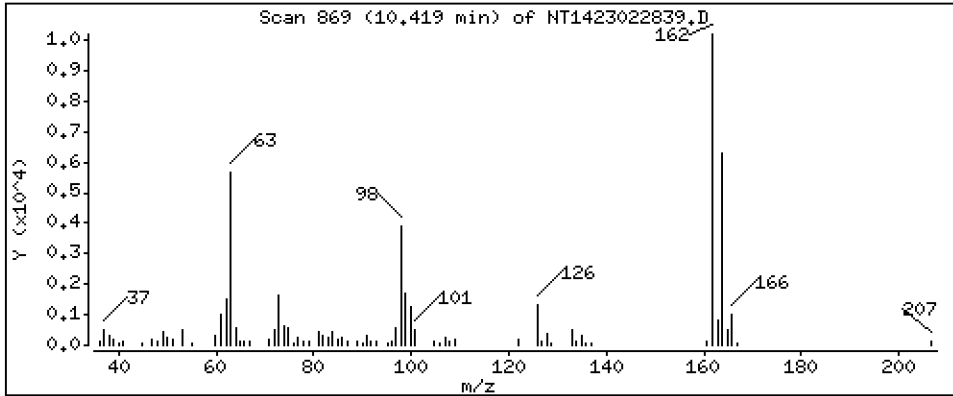
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 0,8740 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

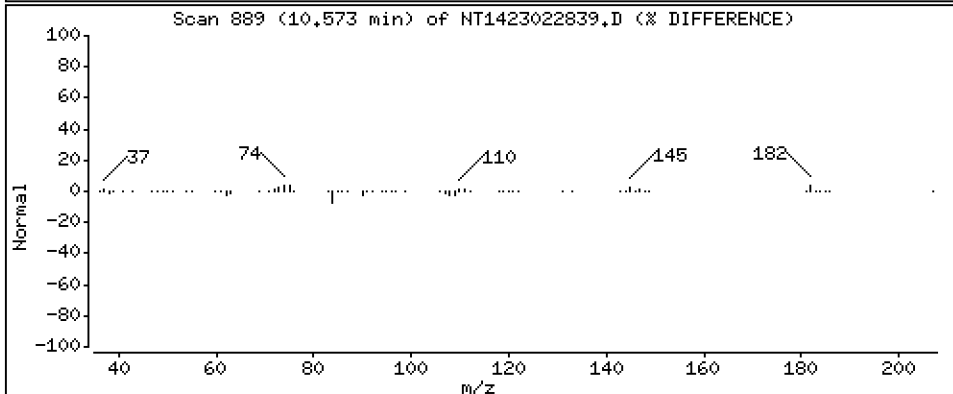
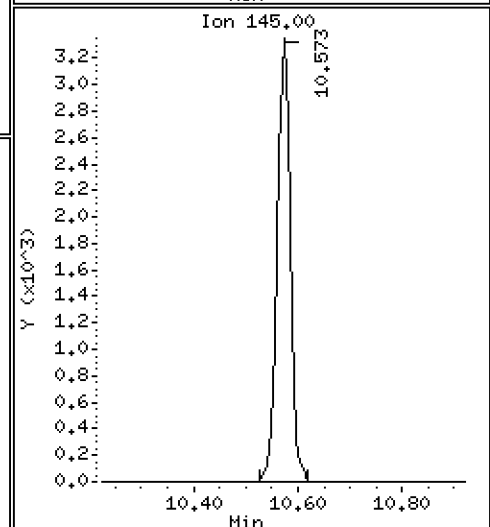
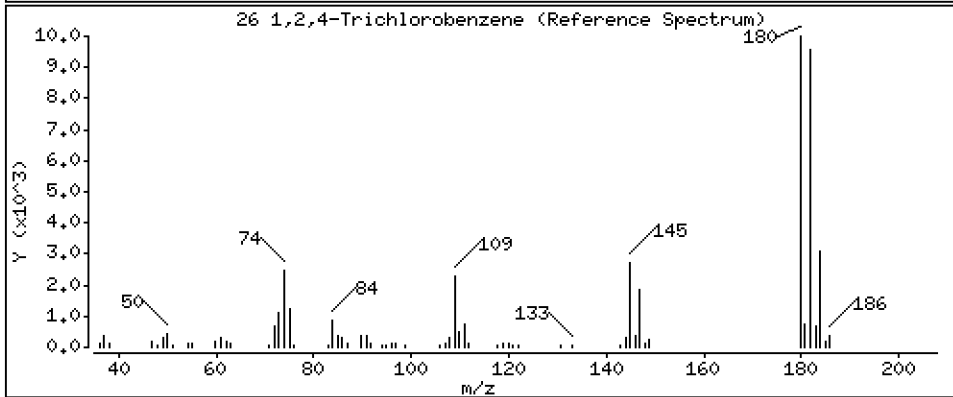
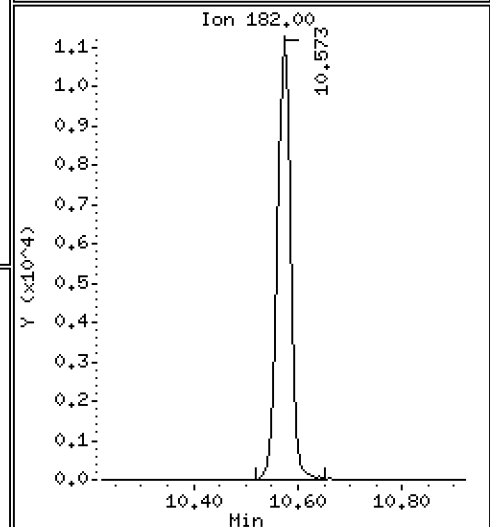
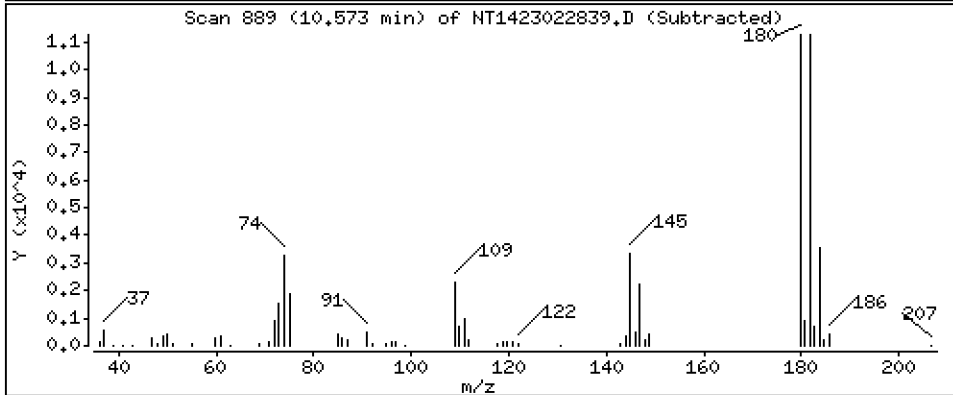
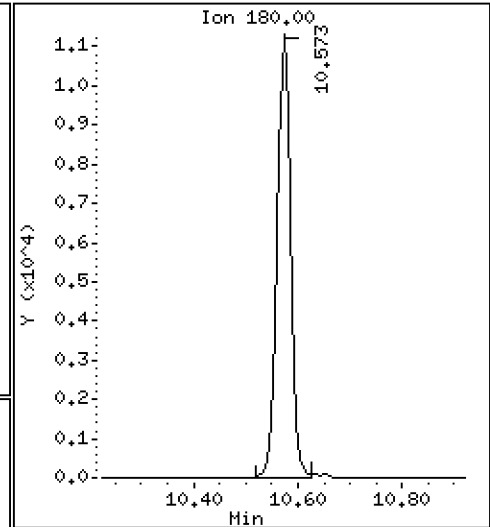
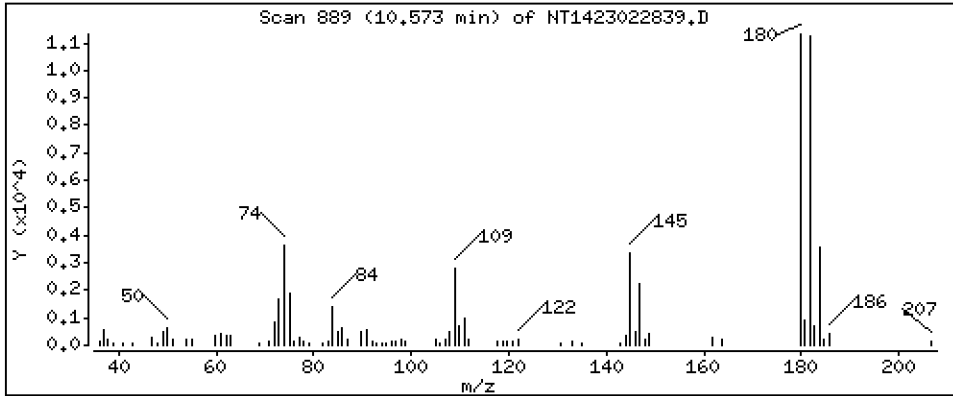
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 0,4967 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

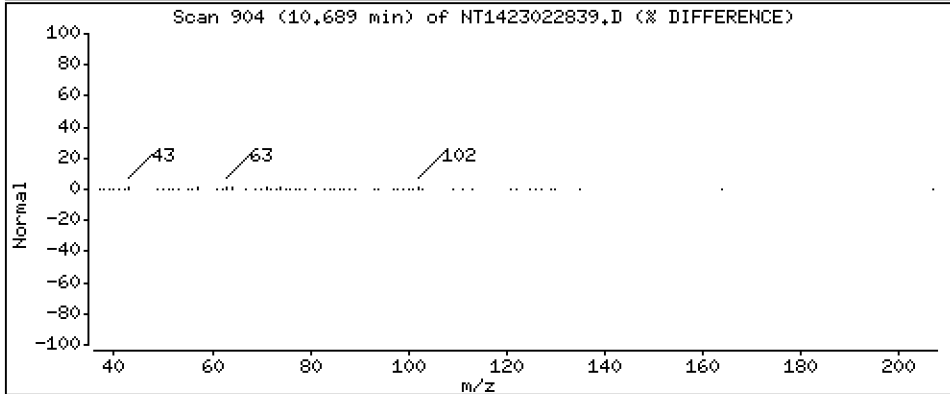
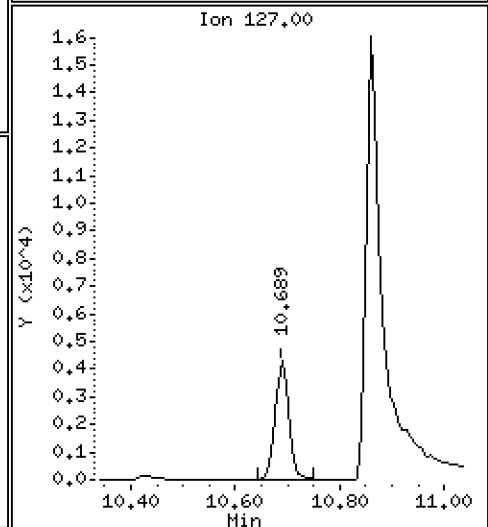
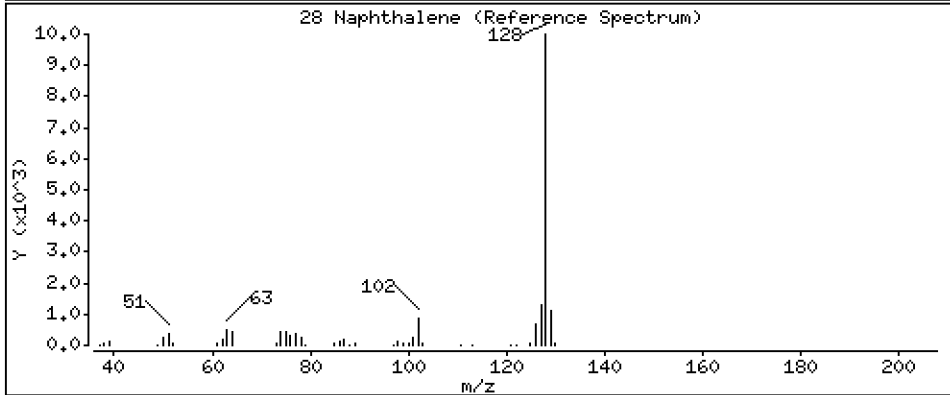
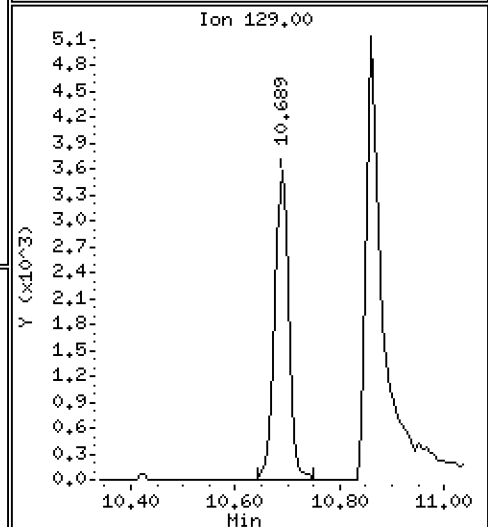
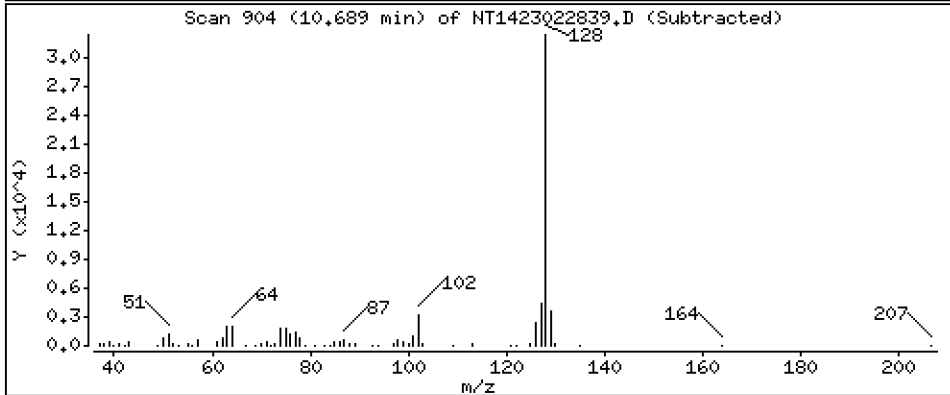
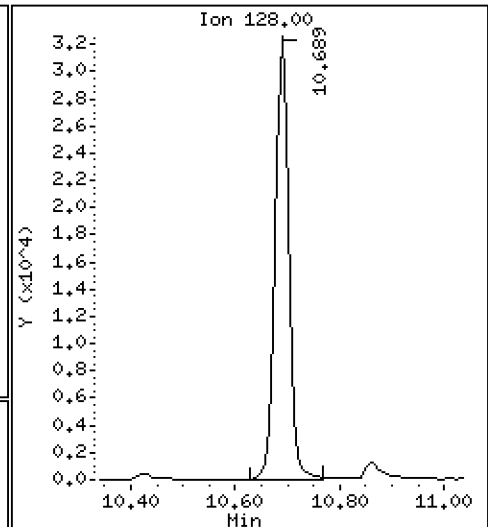
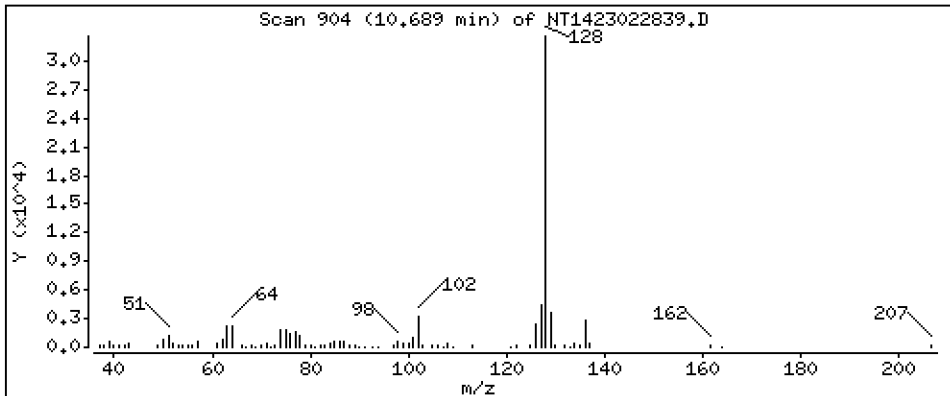
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 0,5257 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

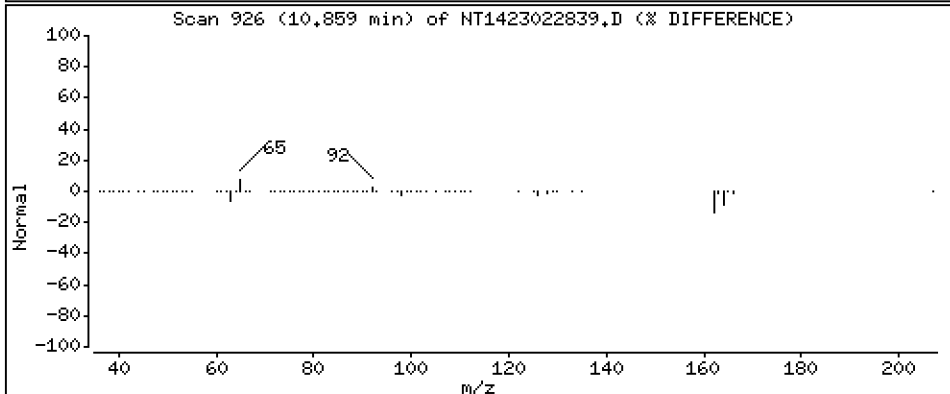
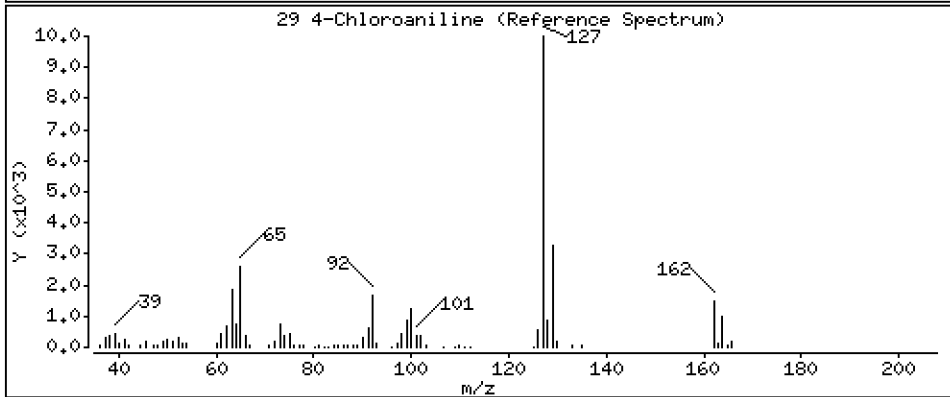
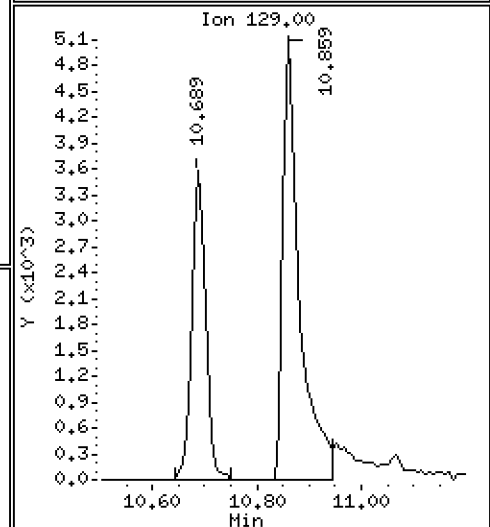
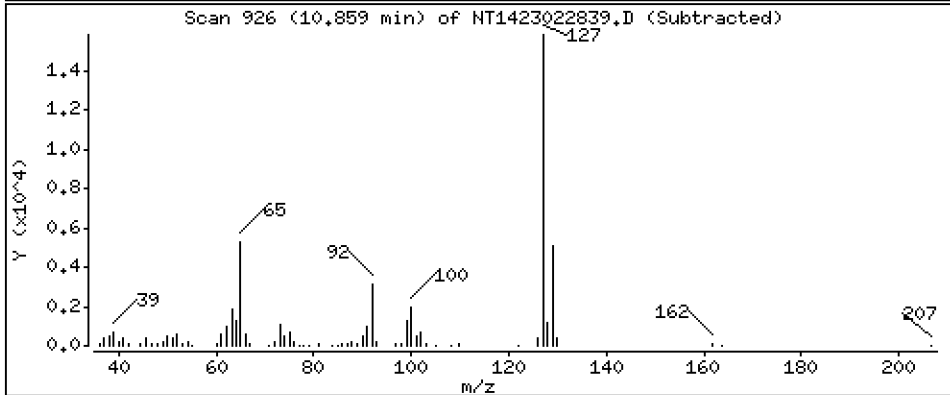
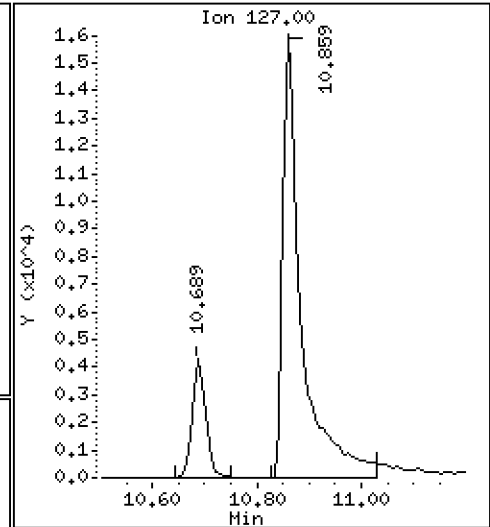
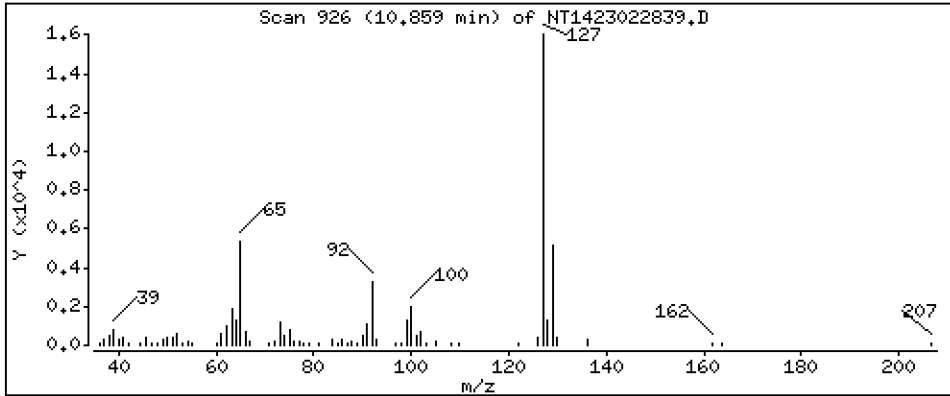
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

29 4-Chloroaniline

Concentration: 0,8967 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

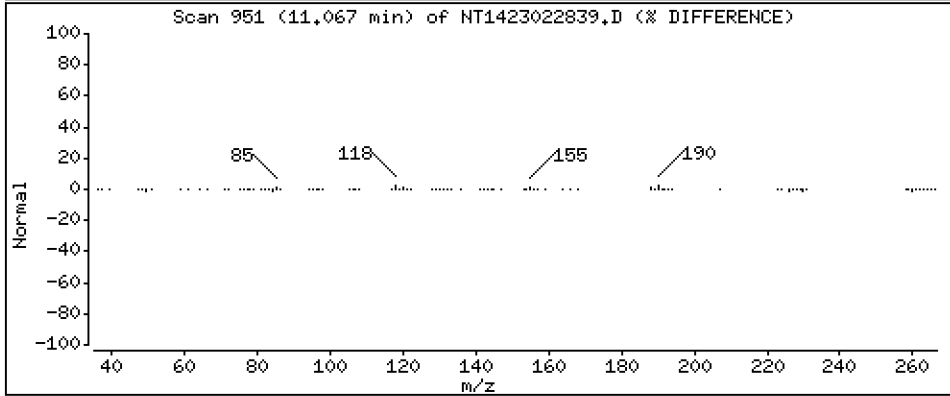
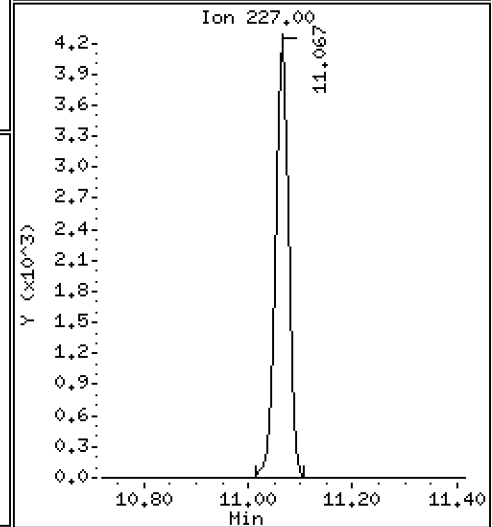
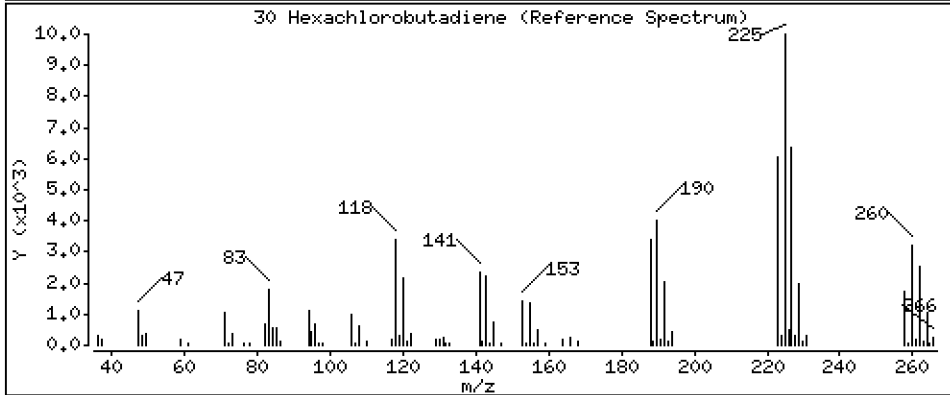
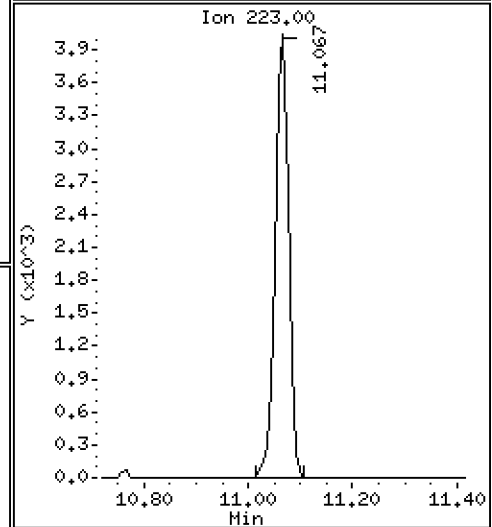
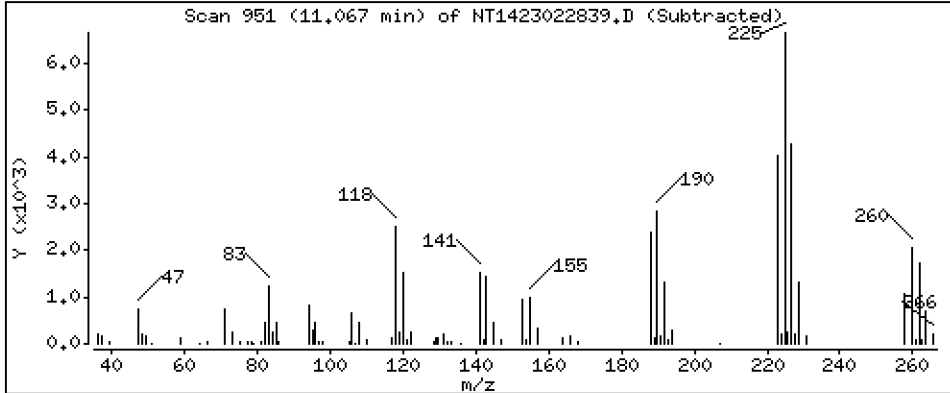
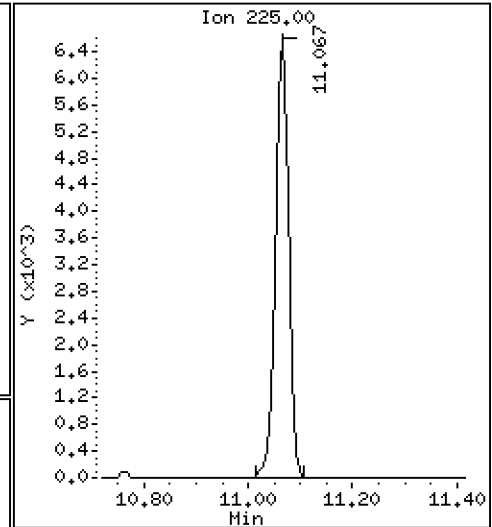
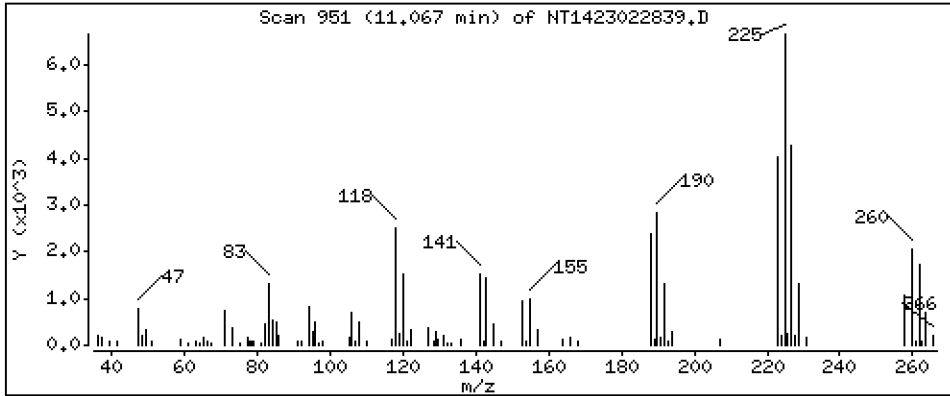
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 0,4614 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

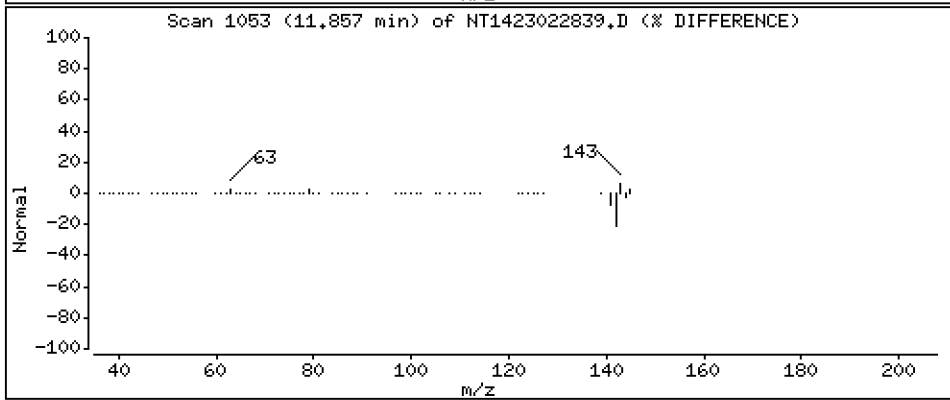
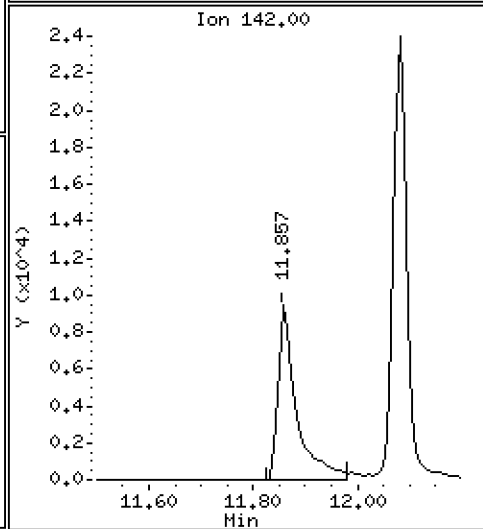
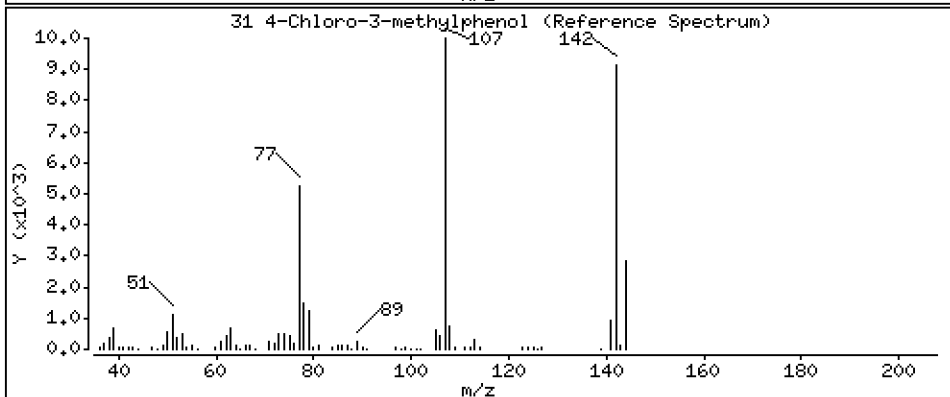
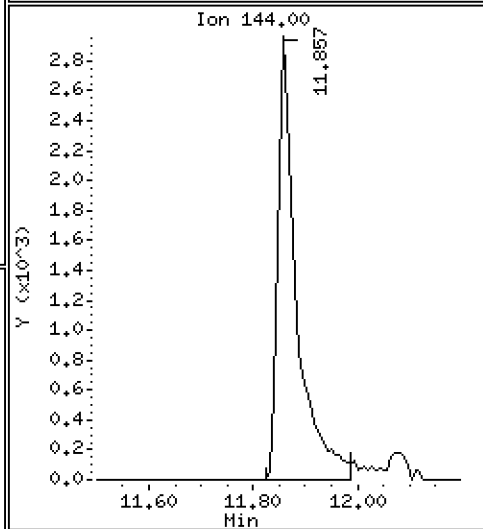
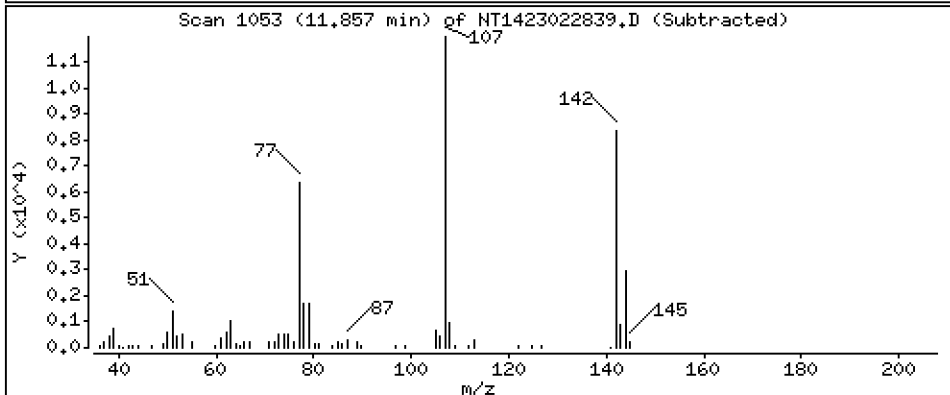
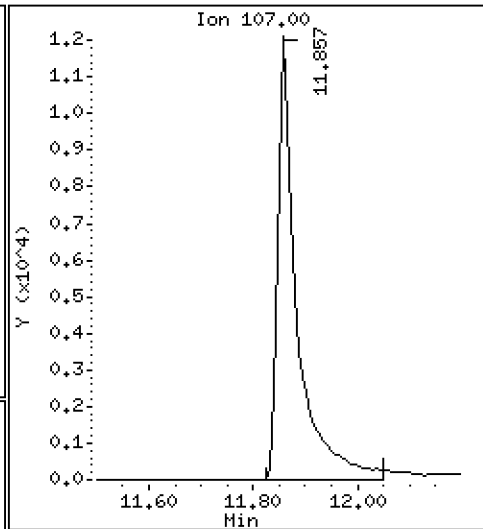
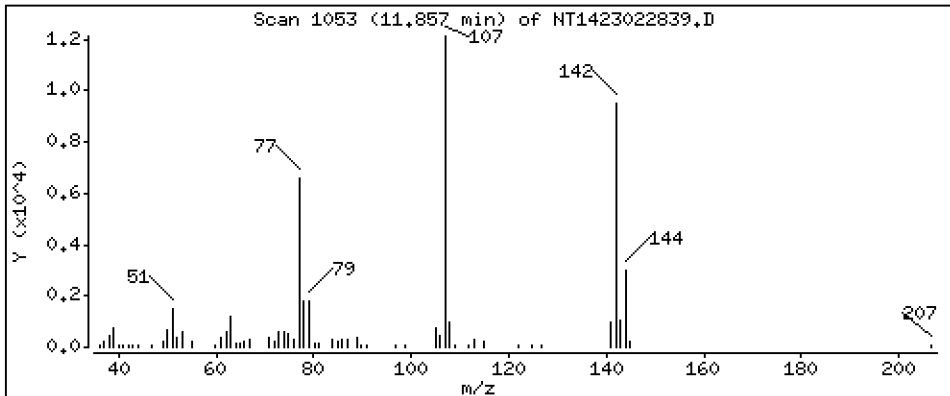
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

31 4-Chloro-3-methylphenol

Concentration: 0.9960 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

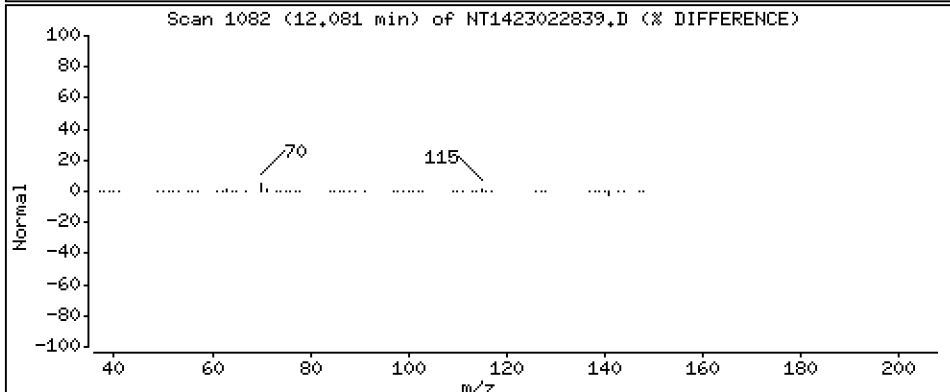
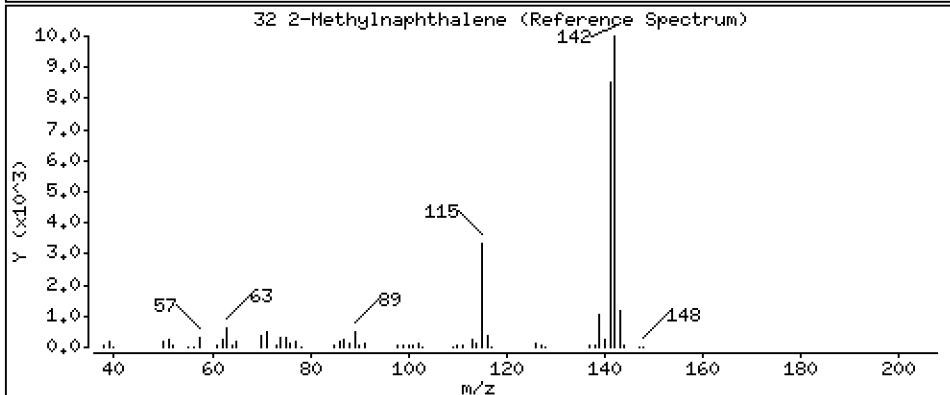
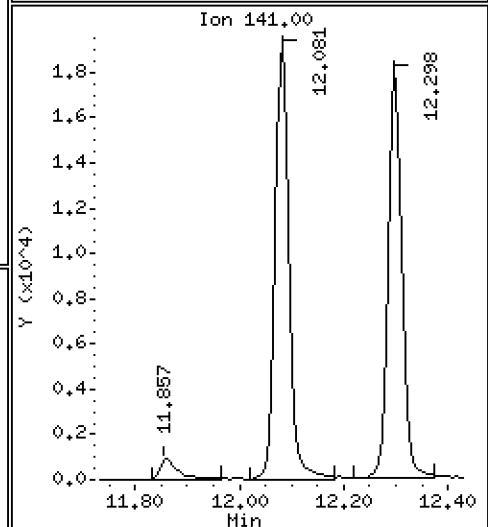
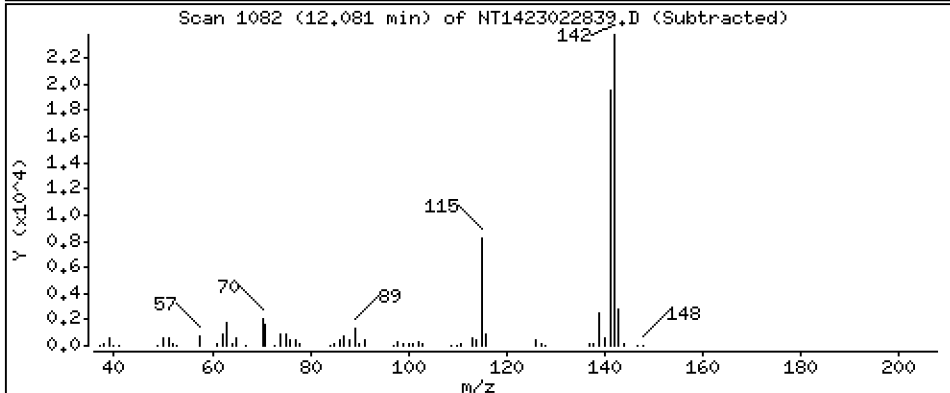
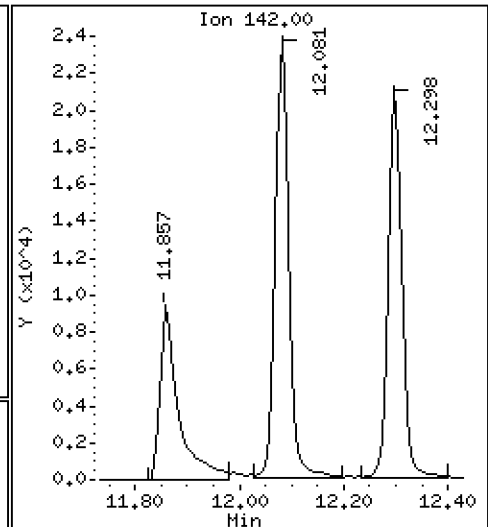
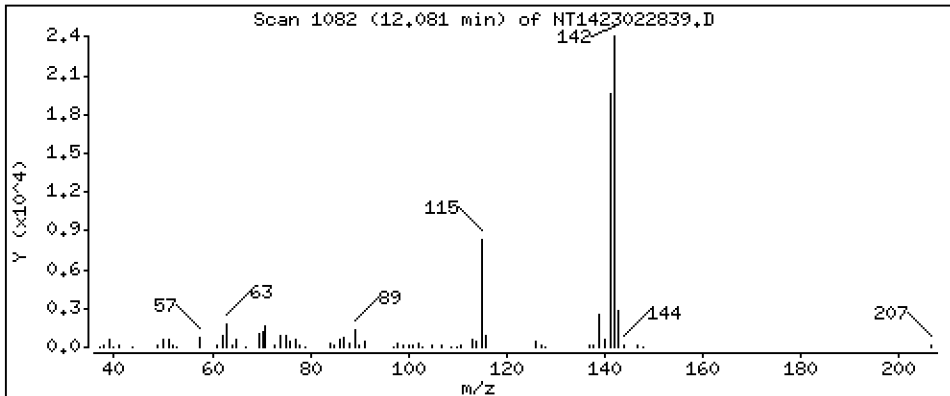
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 0,5142 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

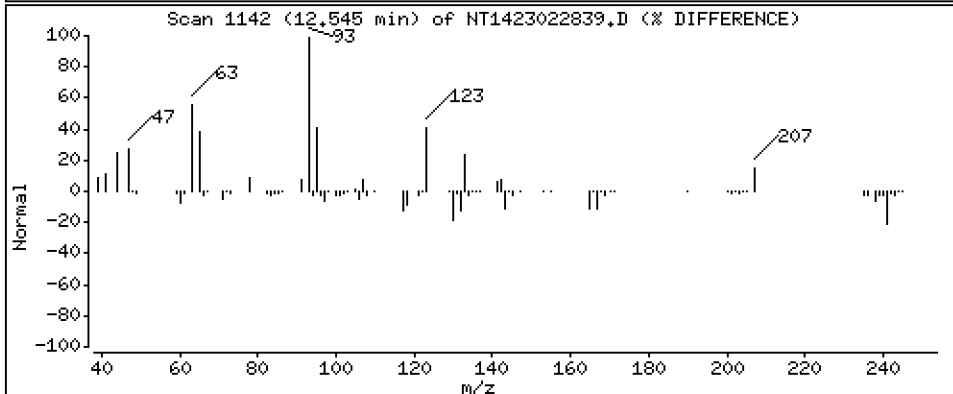
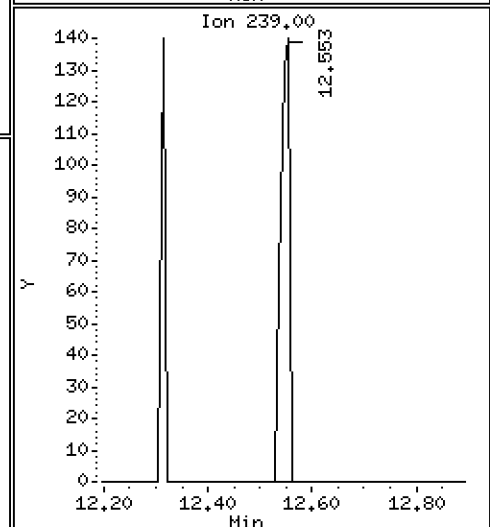
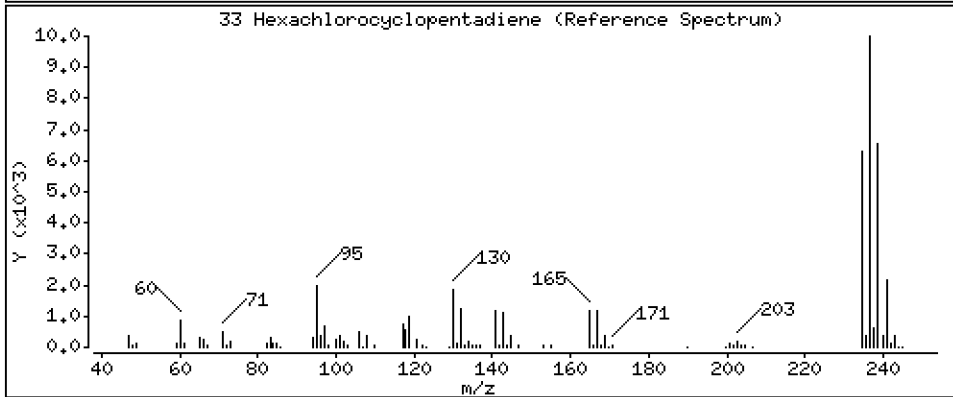
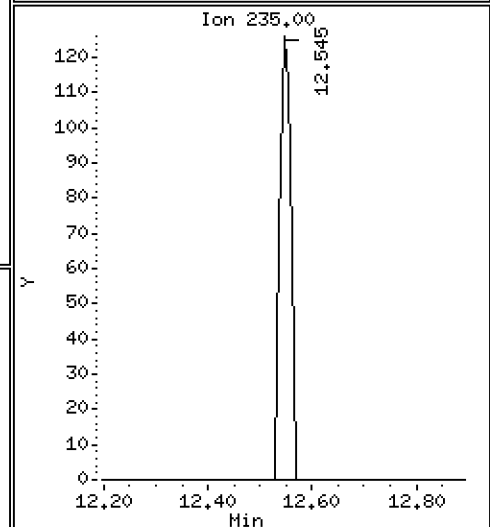
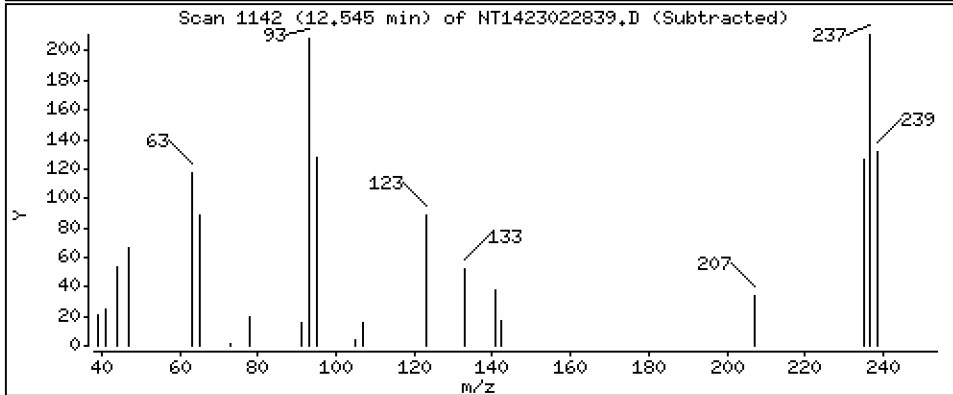
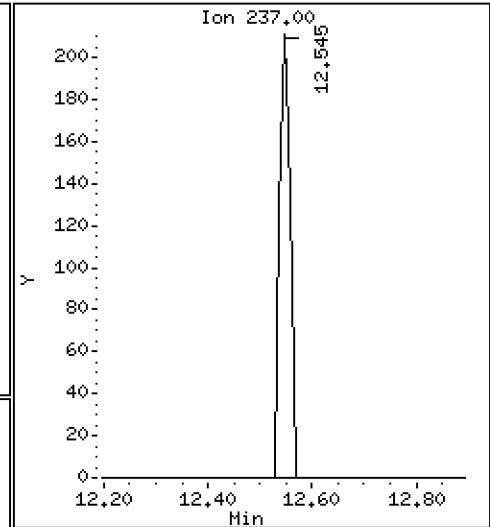
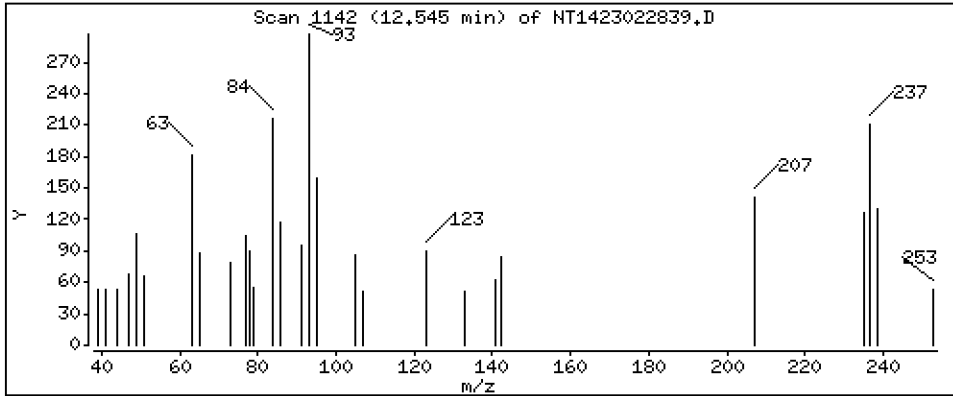
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

33 Hexachlorocyclopentadiene

Concentration: 0,01142 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

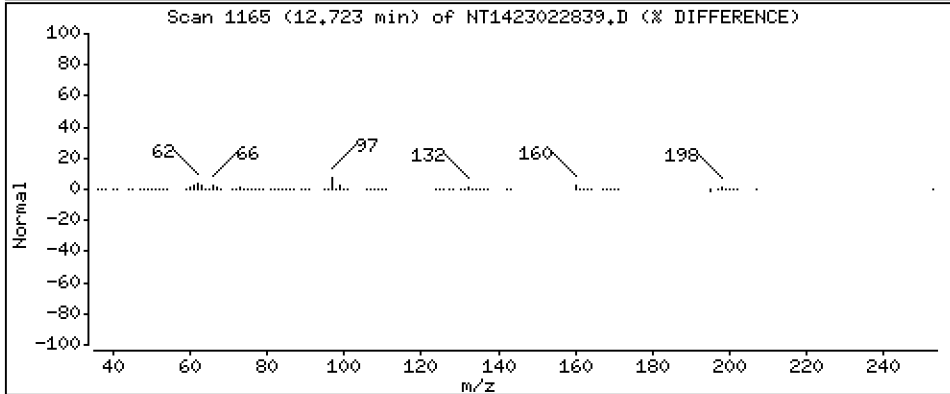
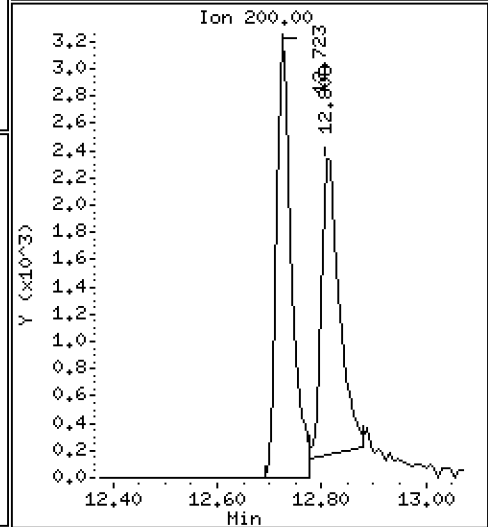
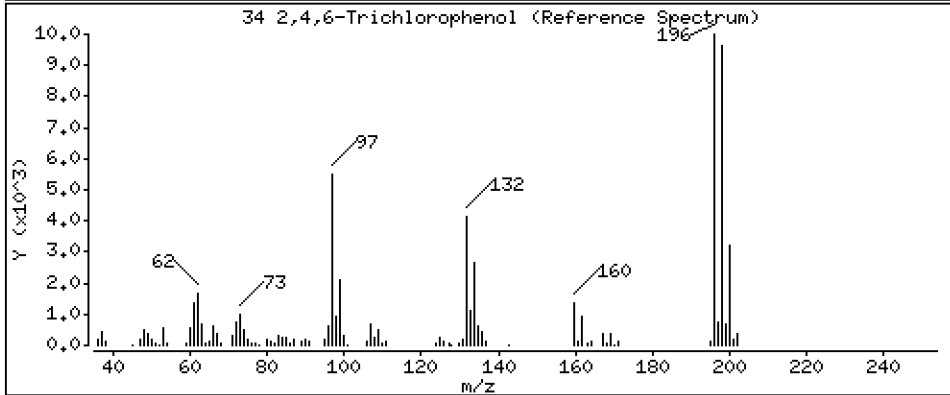
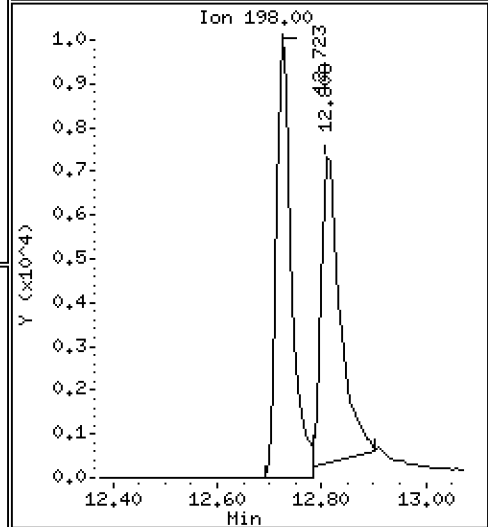
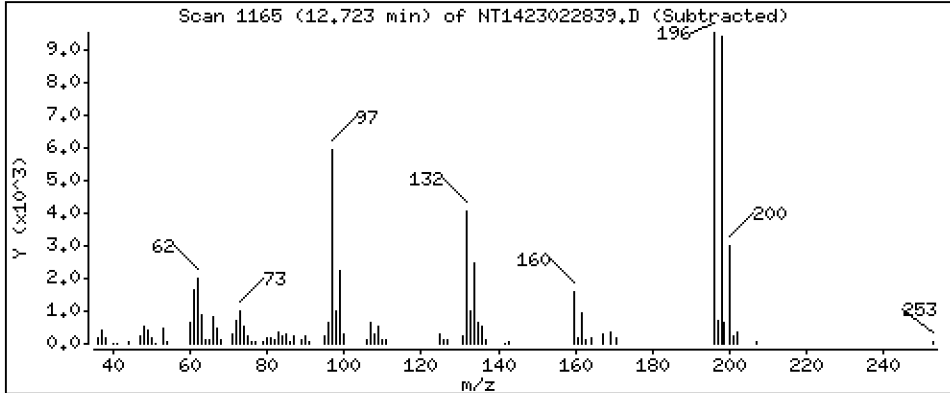
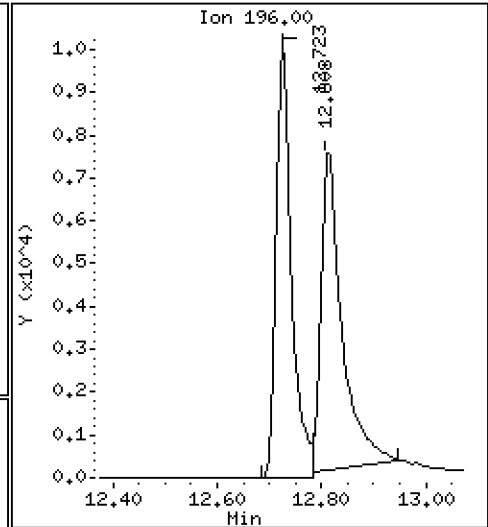
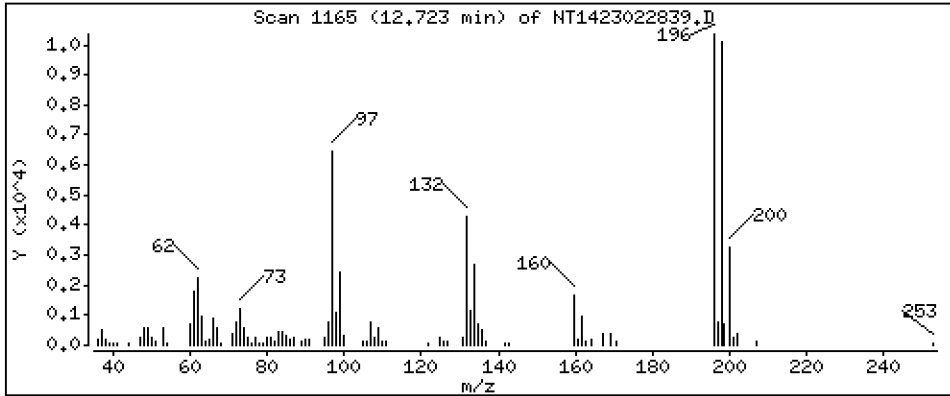
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

34 2,4,6-Trichlorophenol

Concentration: 0,8898 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

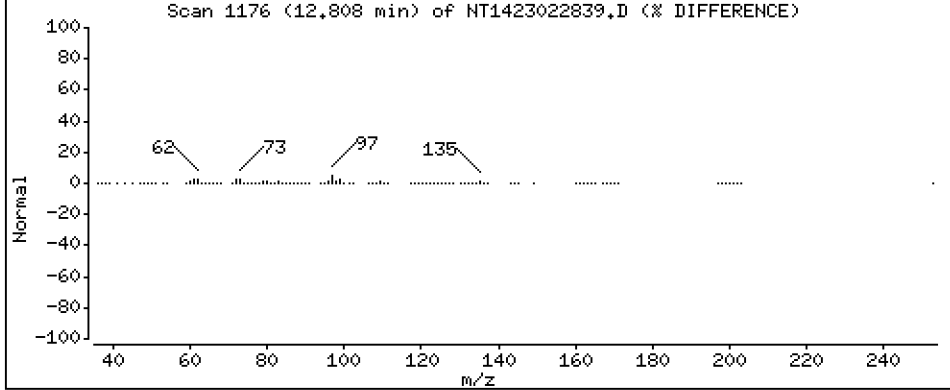
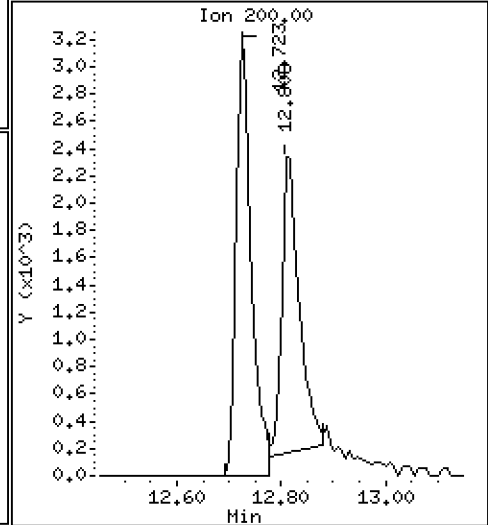
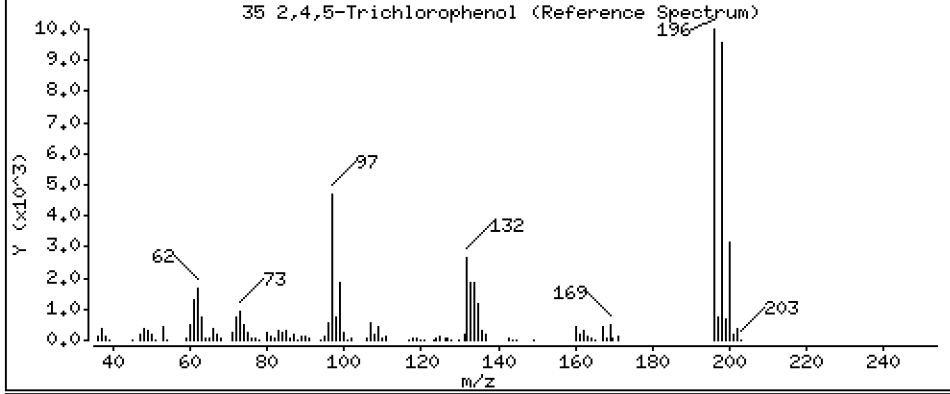
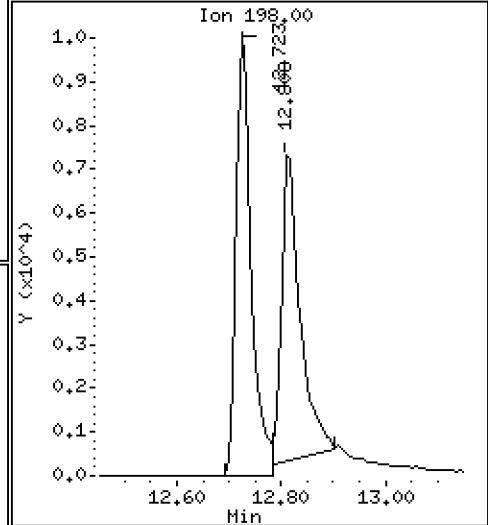
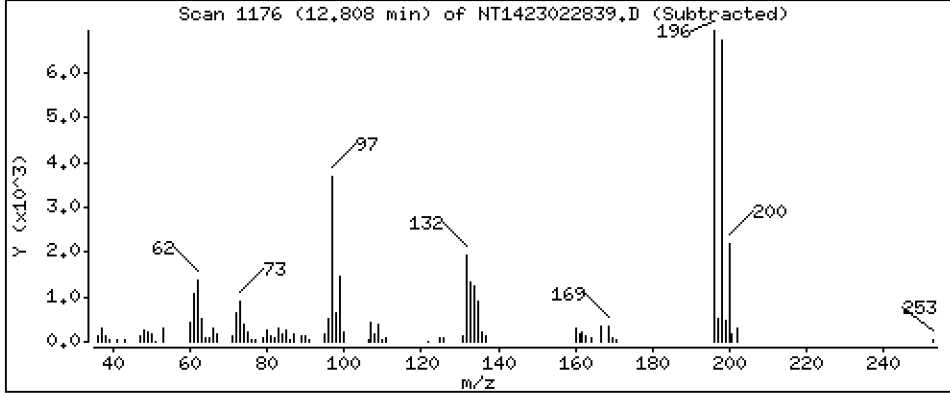
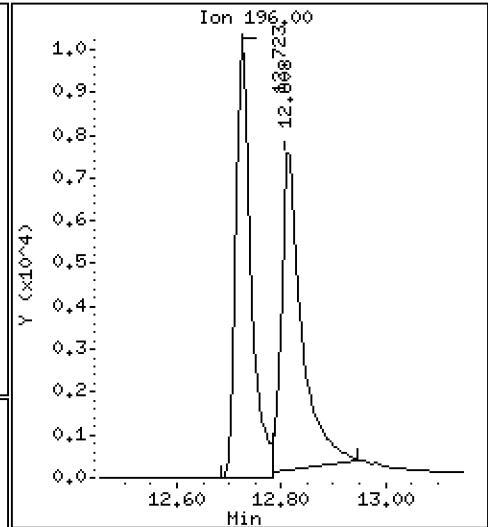
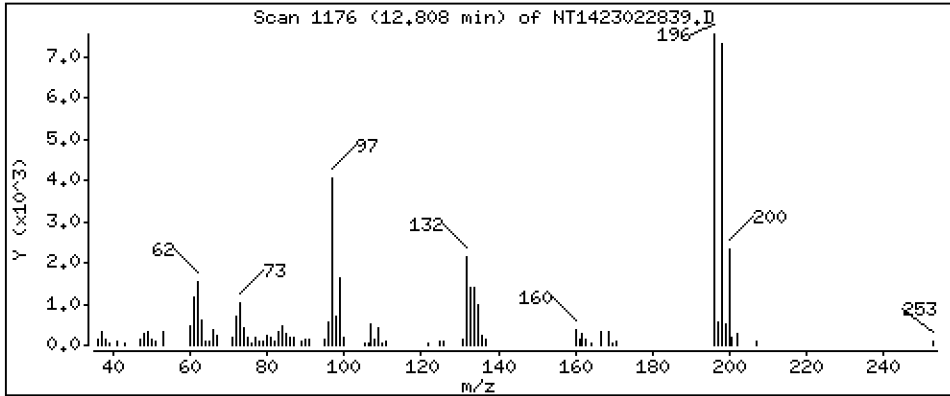
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

35 2,4,5-Trichlorophenol

Concentration: 0,8232 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

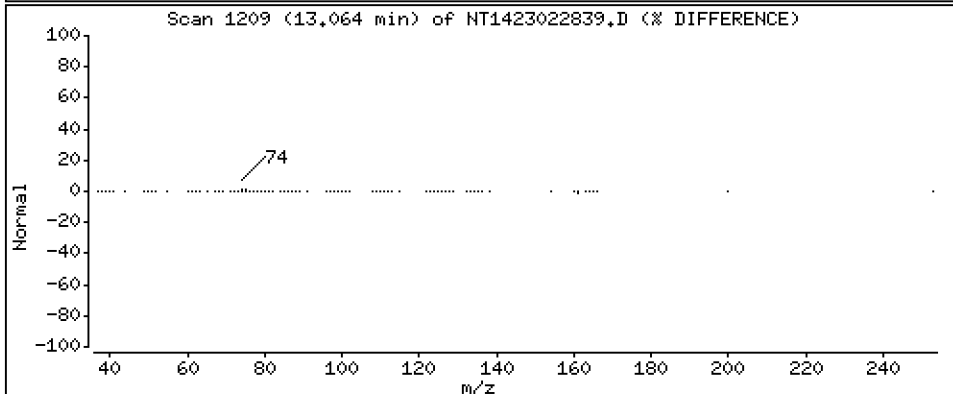
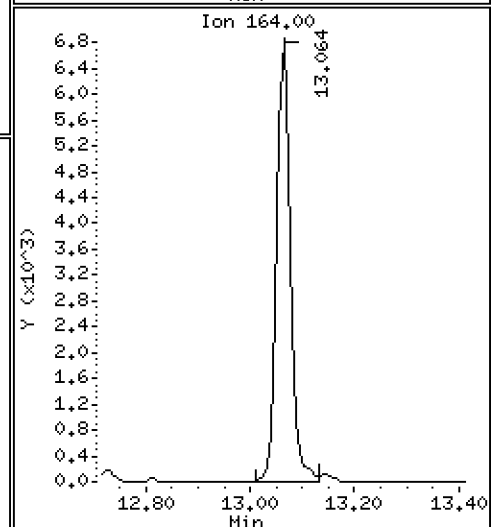
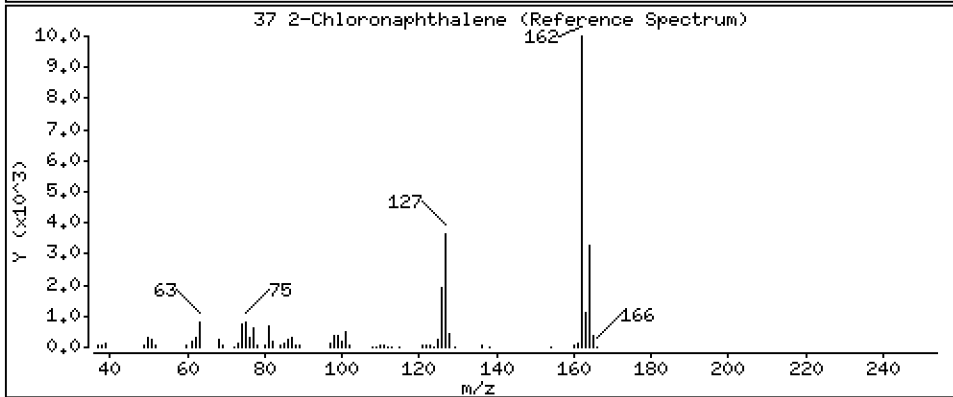
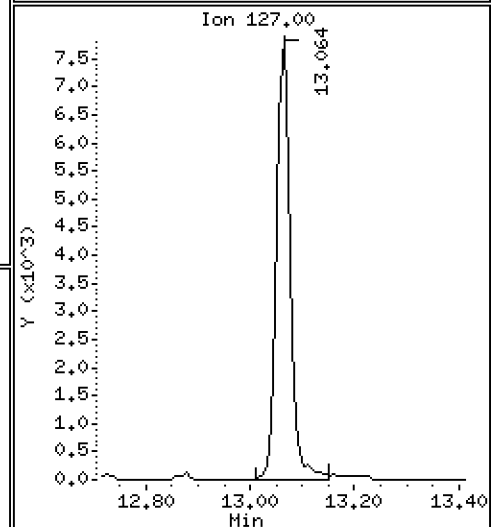
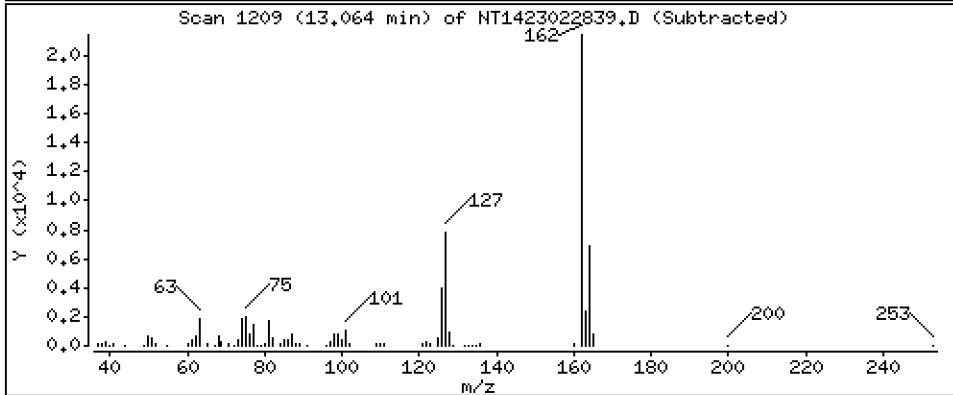
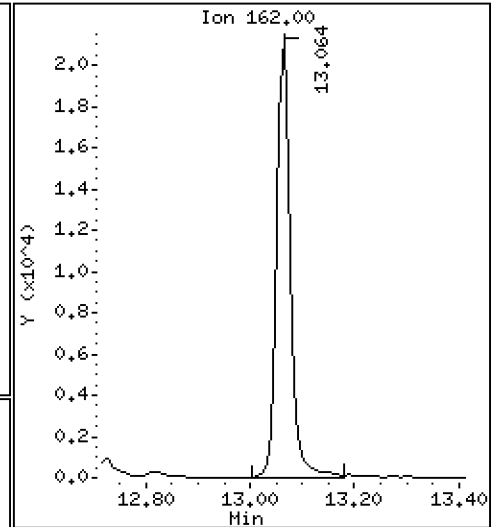
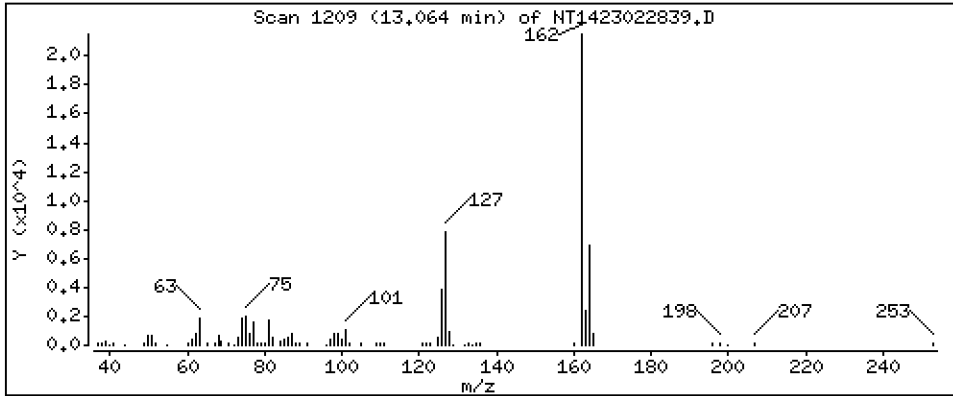
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

37 2-Chloronaphthalene

Concentration: 0,5120 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

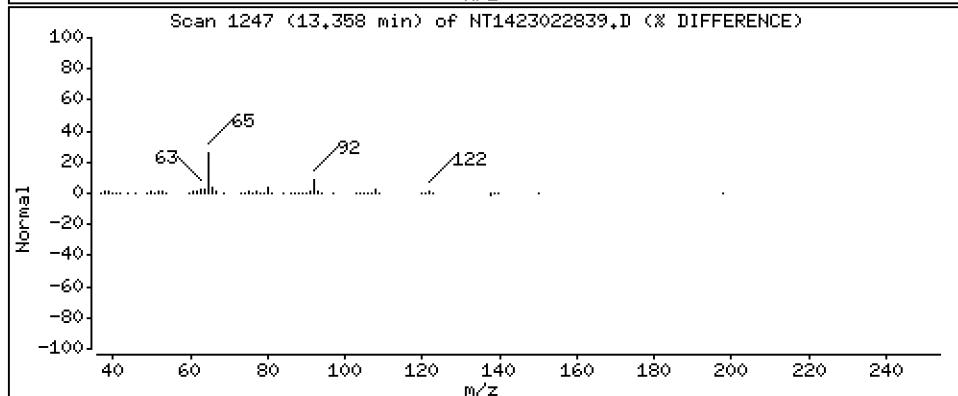
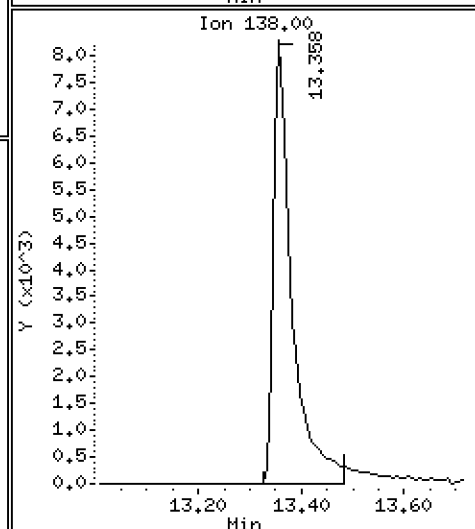
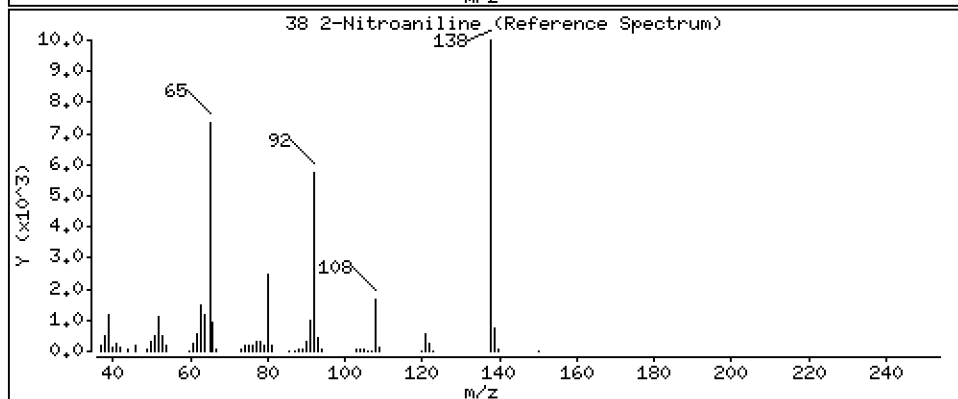
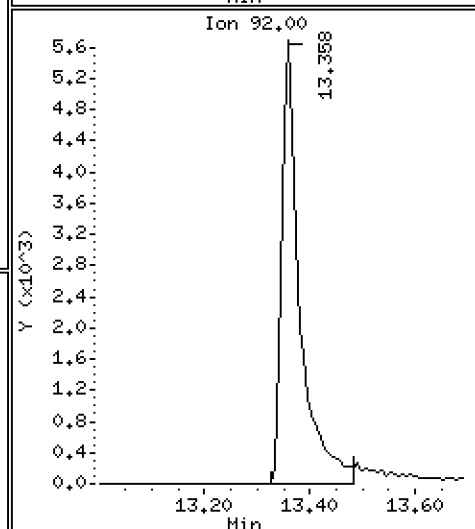
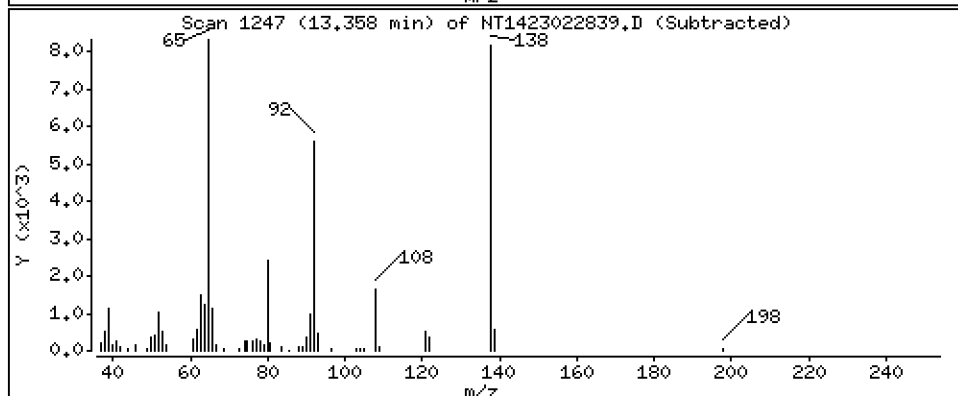
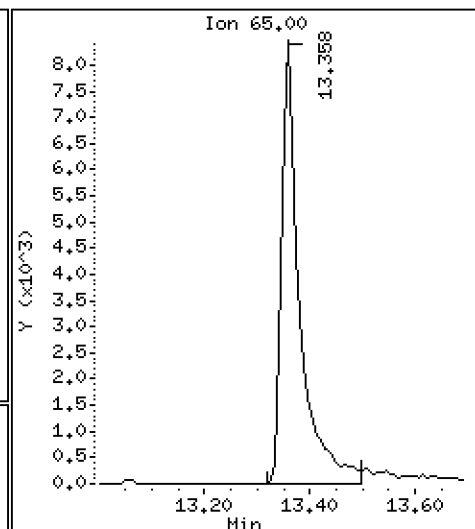
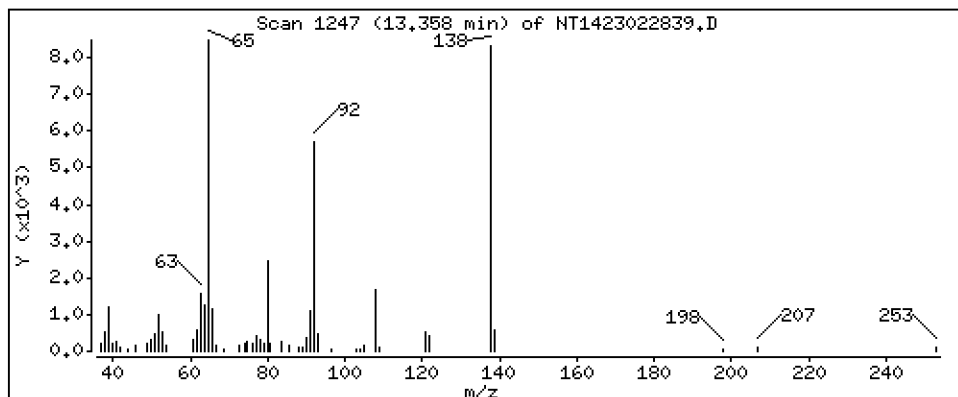
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

38 2-Nitroaniline

Concentration: 1,070 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

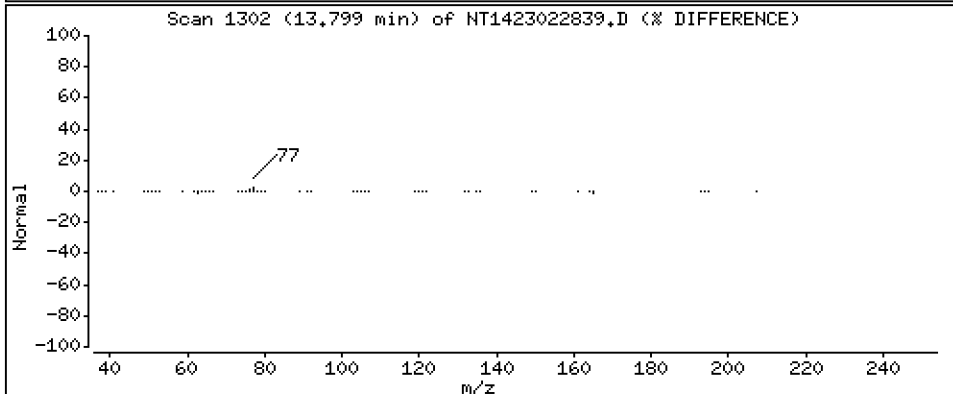
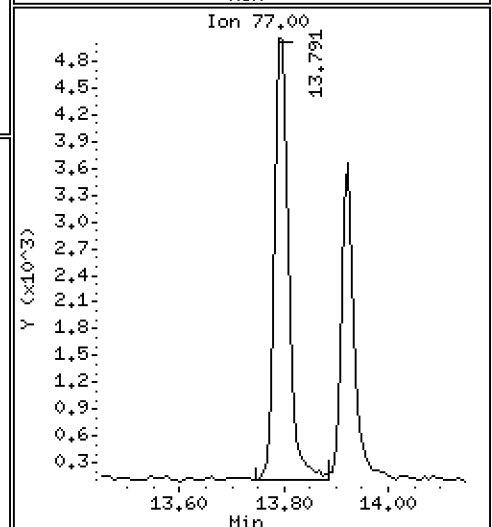
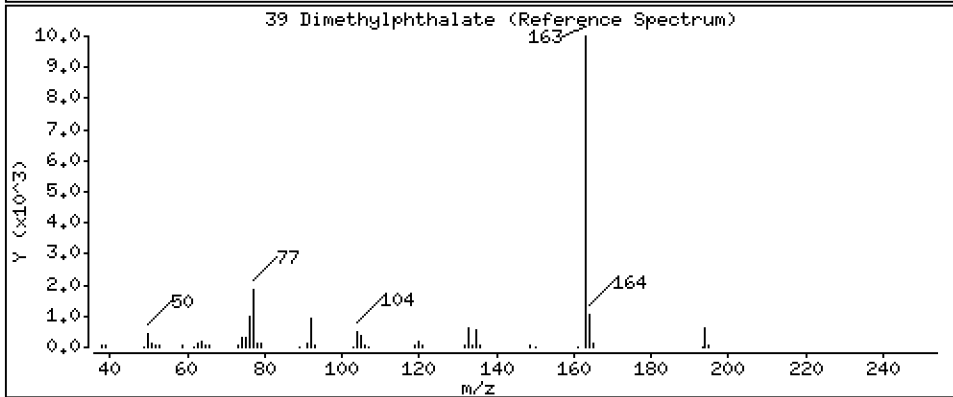
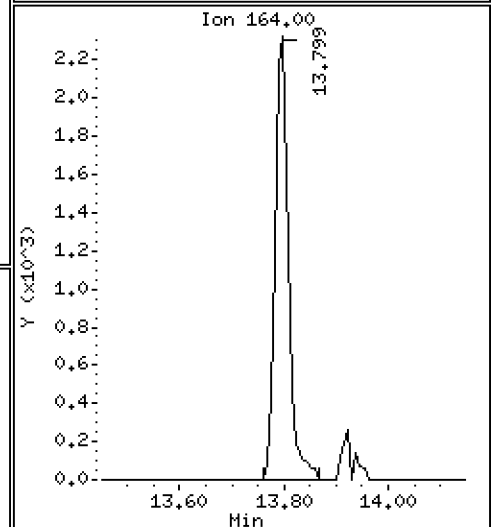
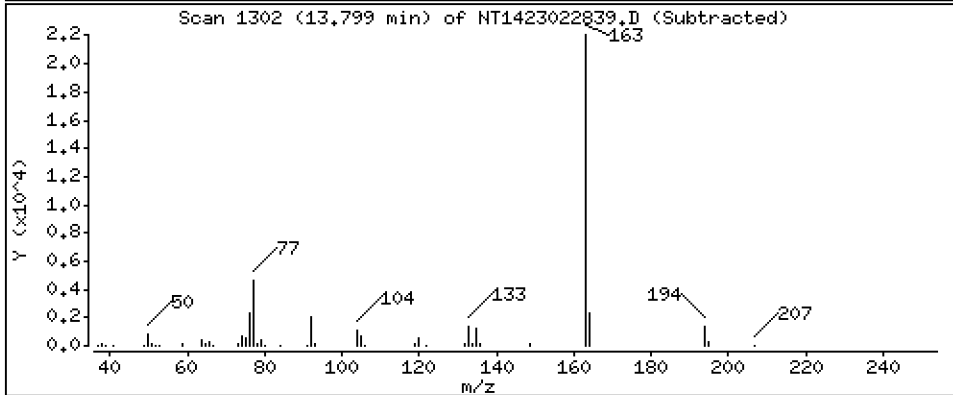
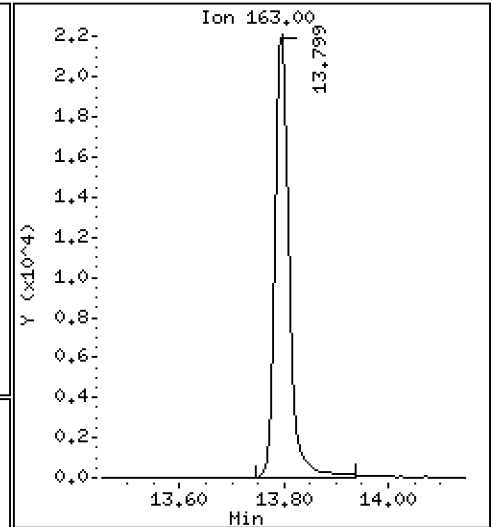
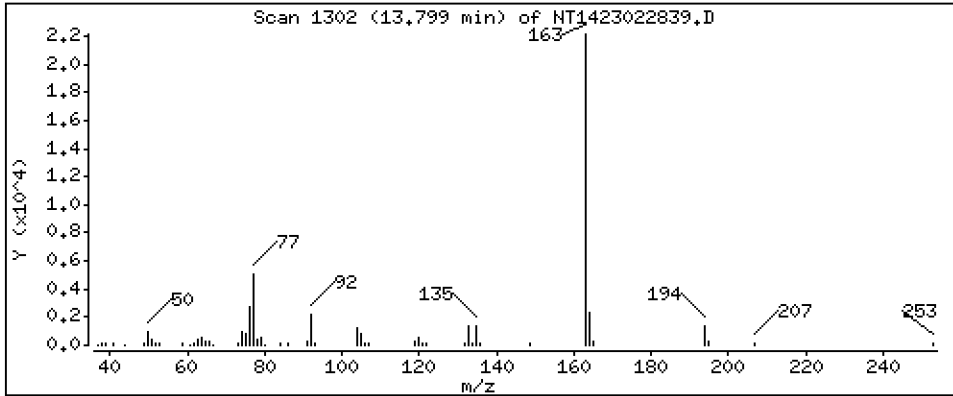
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 0,5531 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

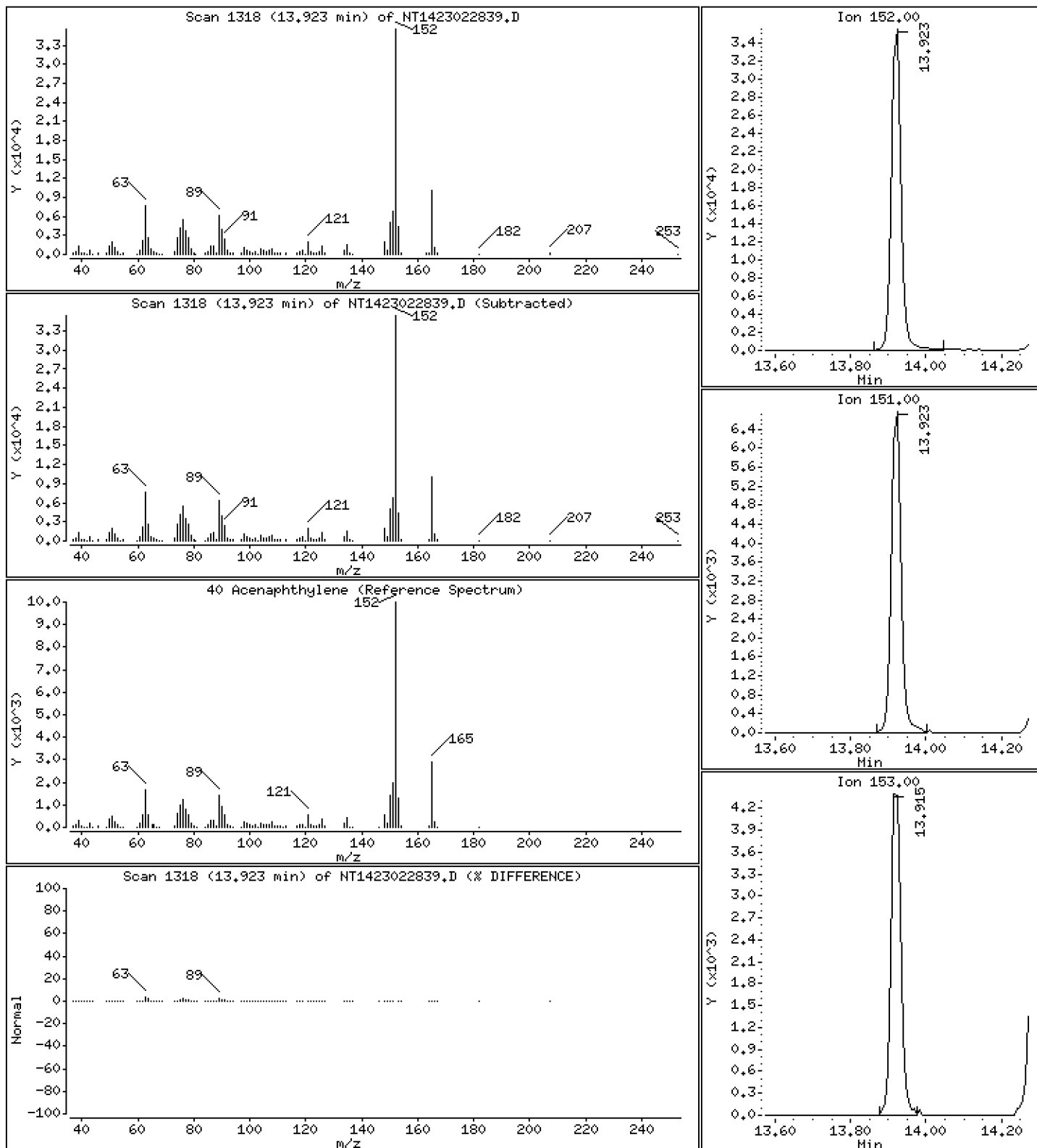
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 0,5614 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

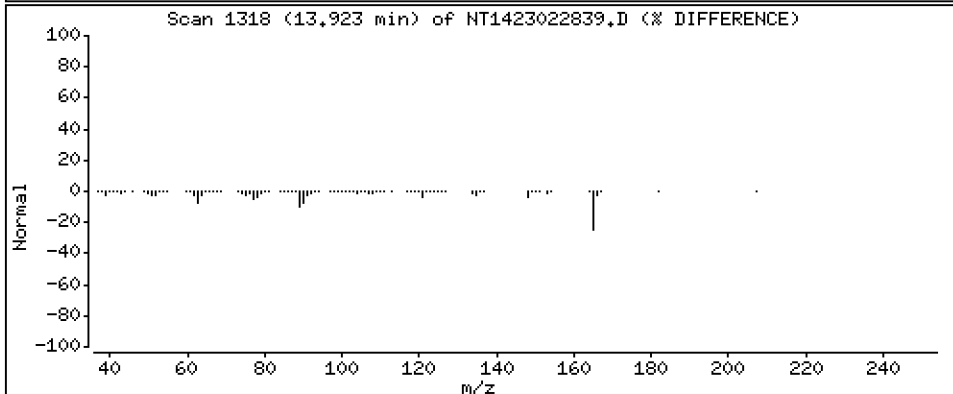
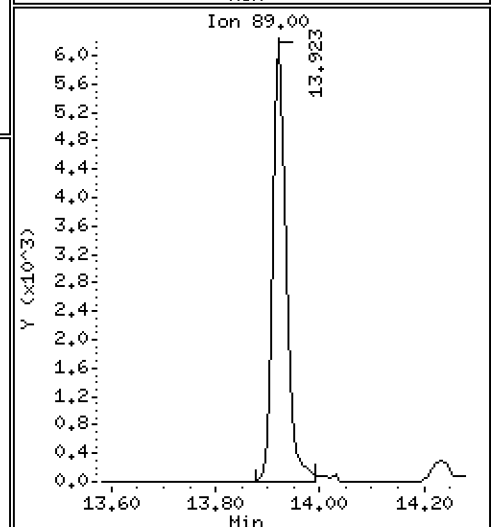
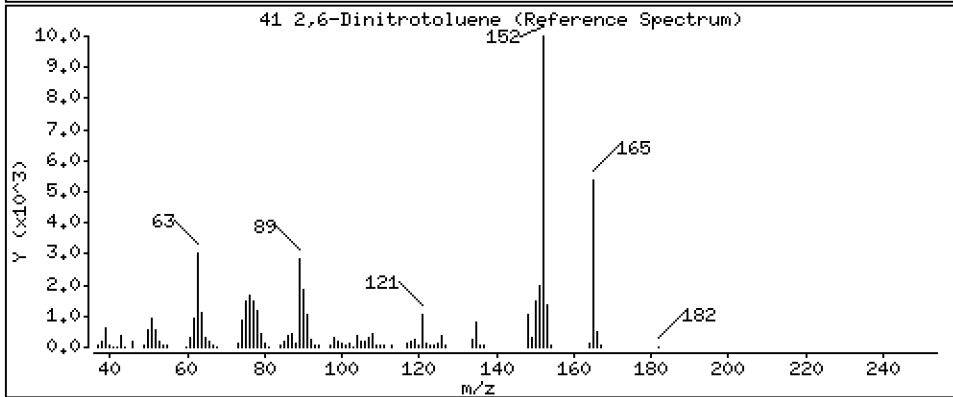
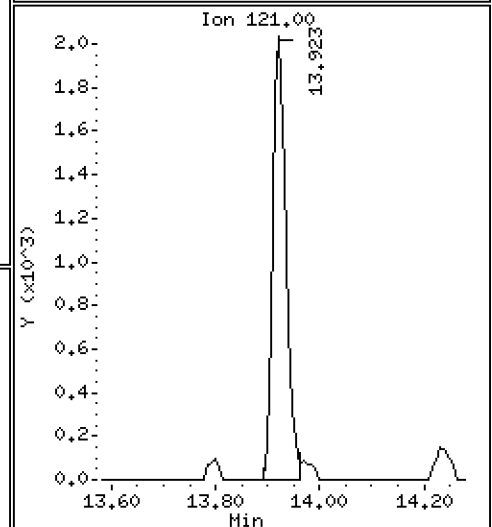
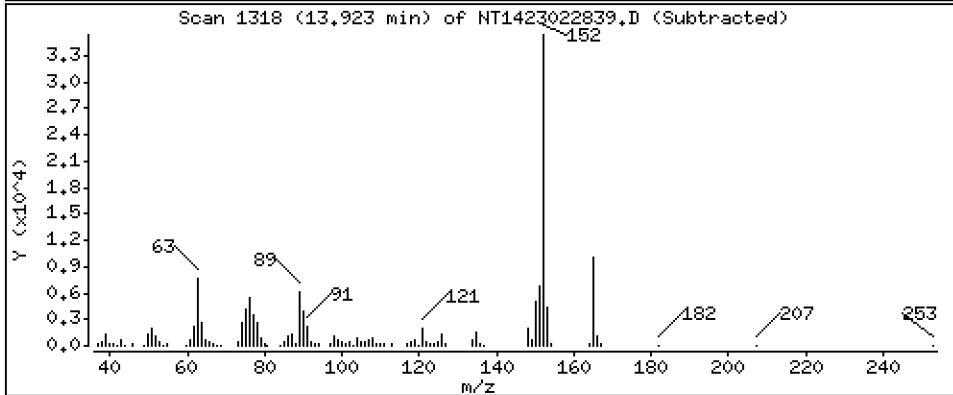
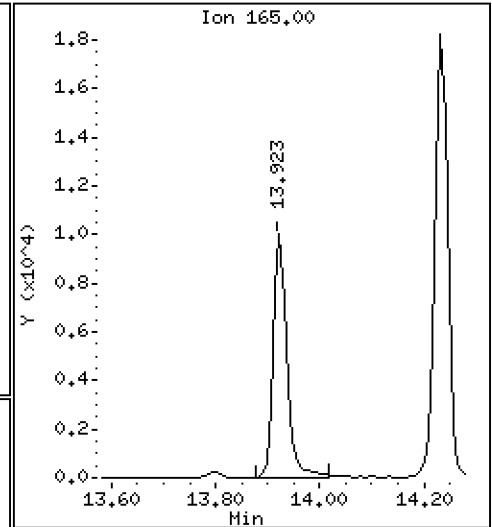
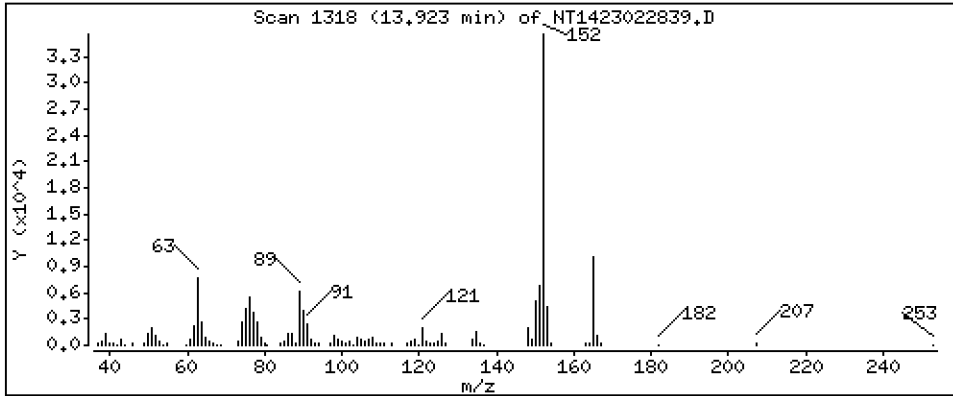
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

41 2,6-Dinitrotoluene

Concentration: 1.004 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

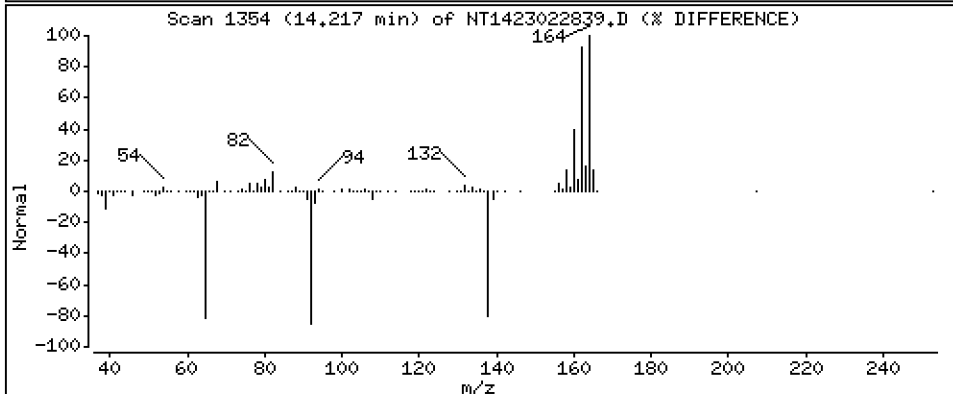
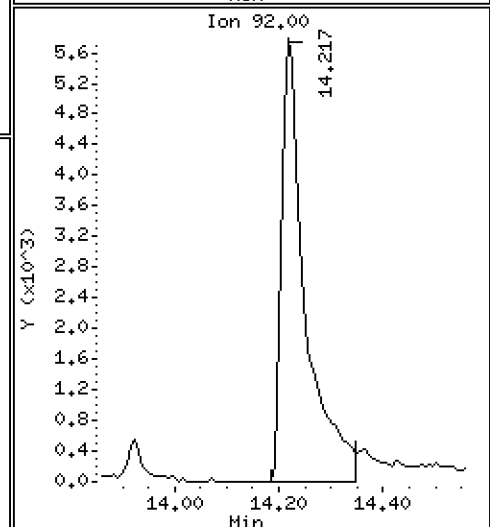
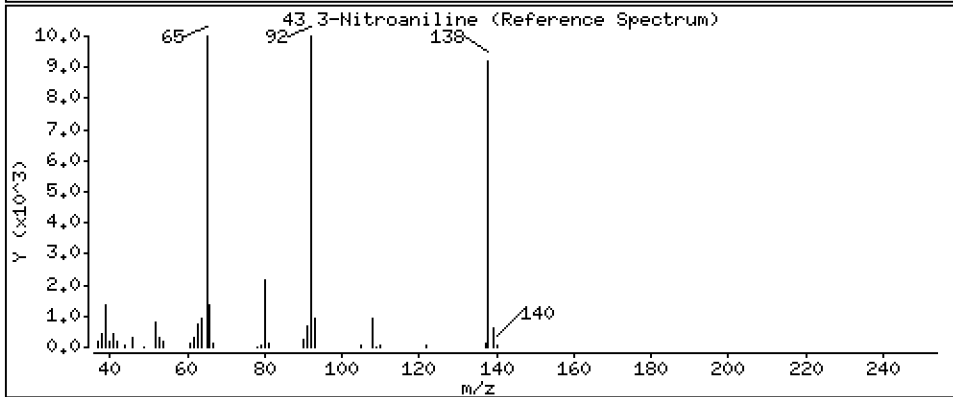
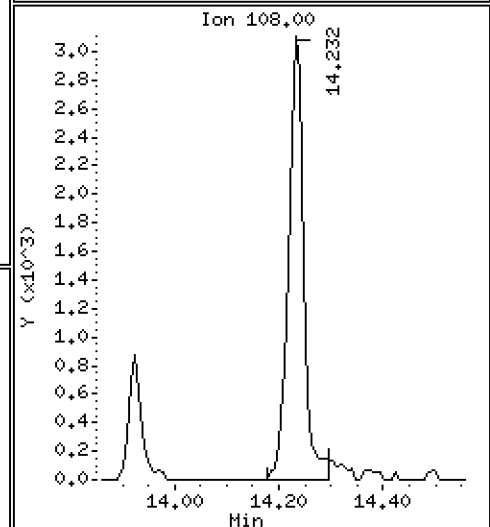
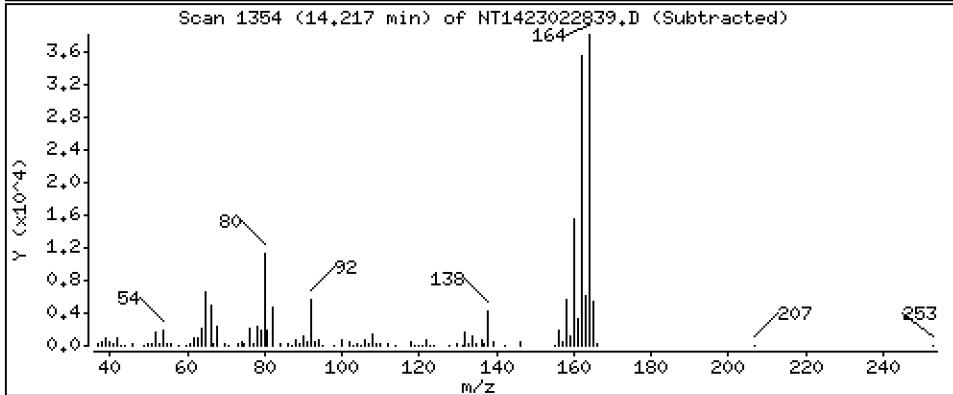
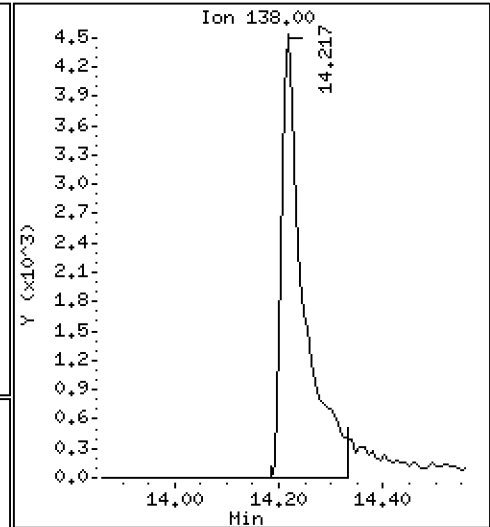
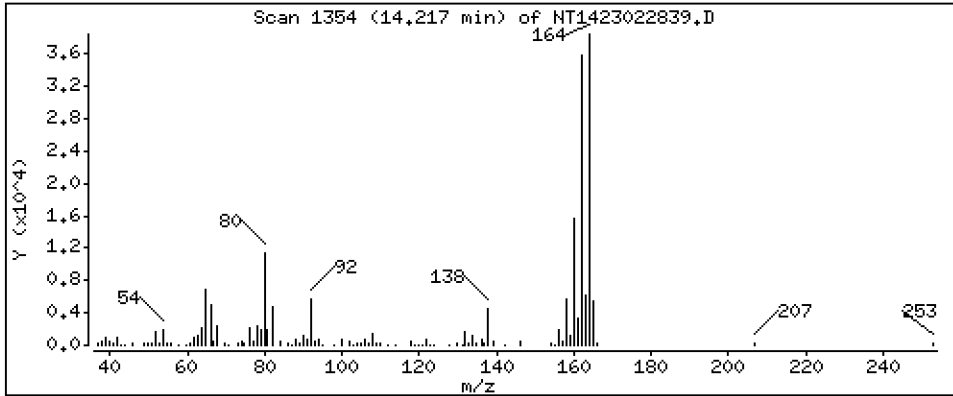
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

43 3-Nitroaniline

Concentration: 0,7629 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

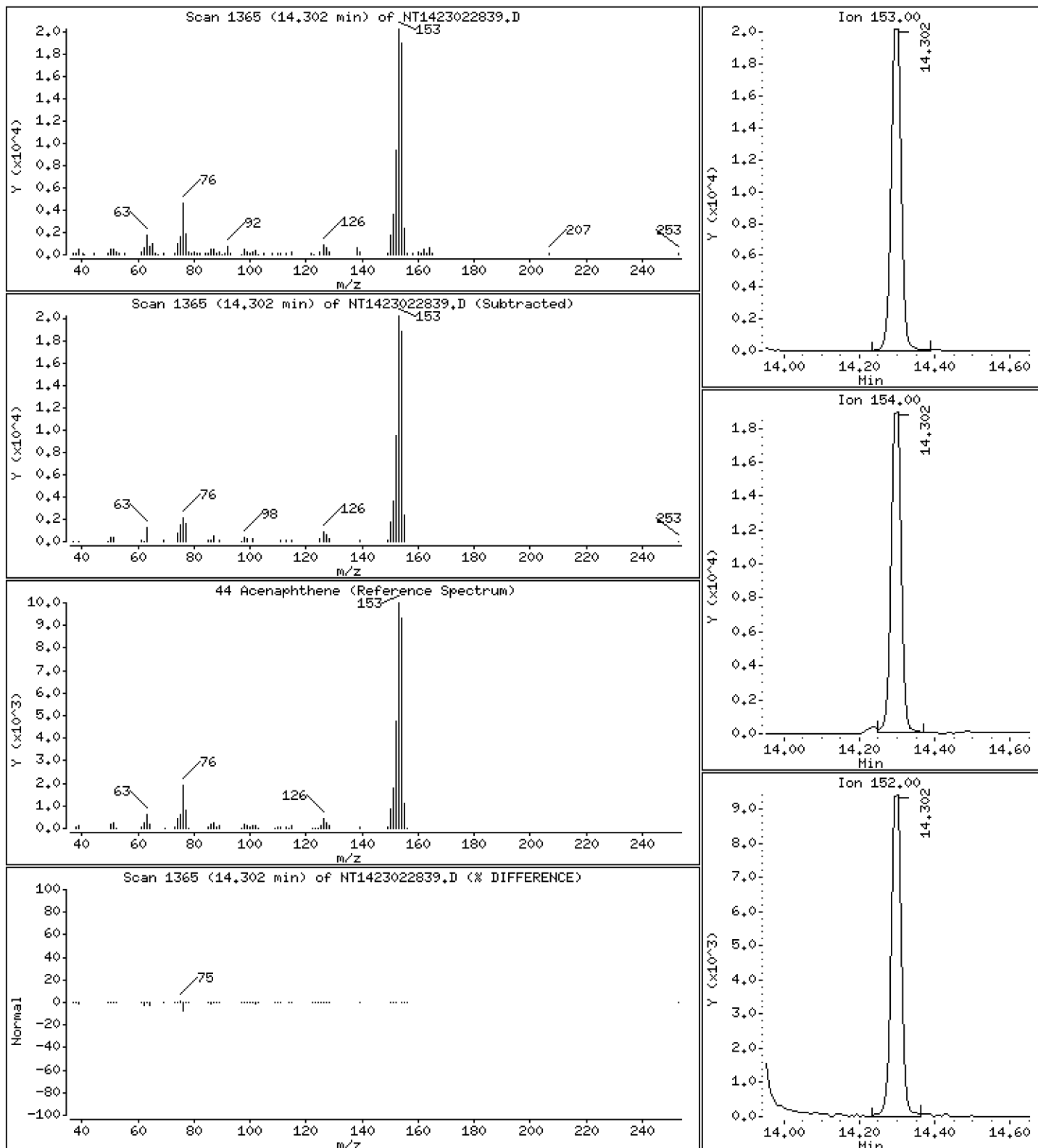
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 0,5197 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

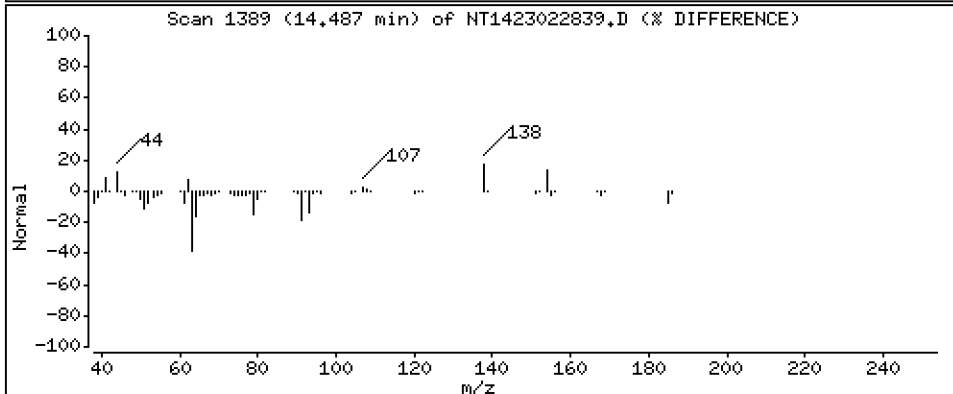
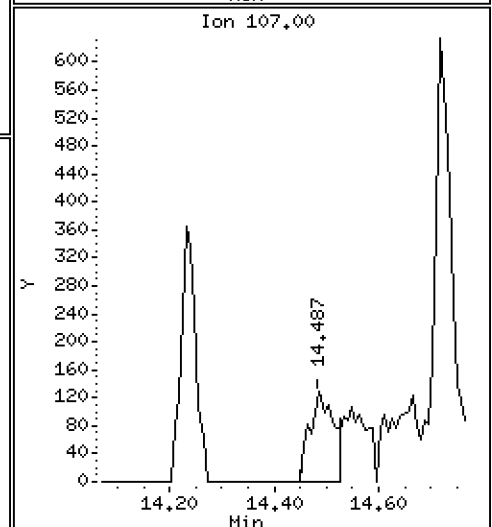
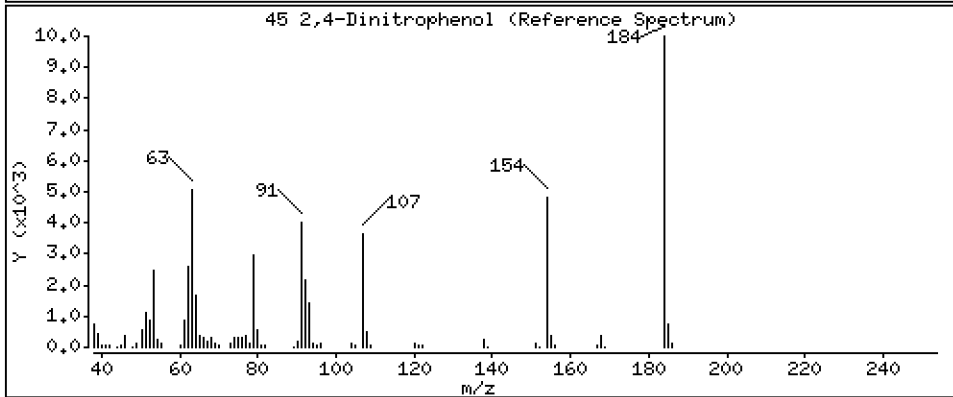
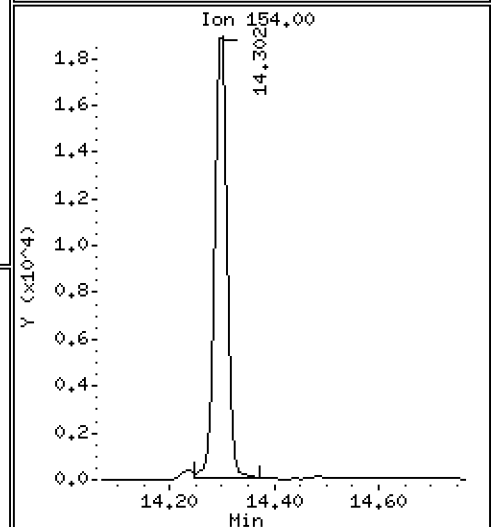
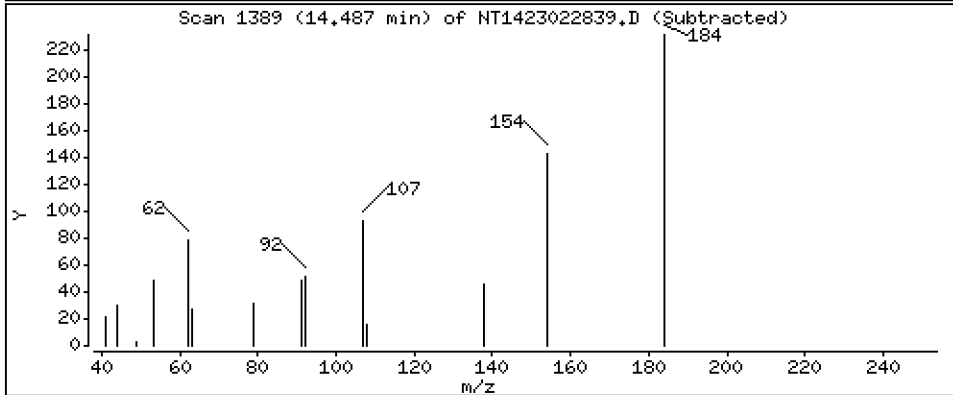
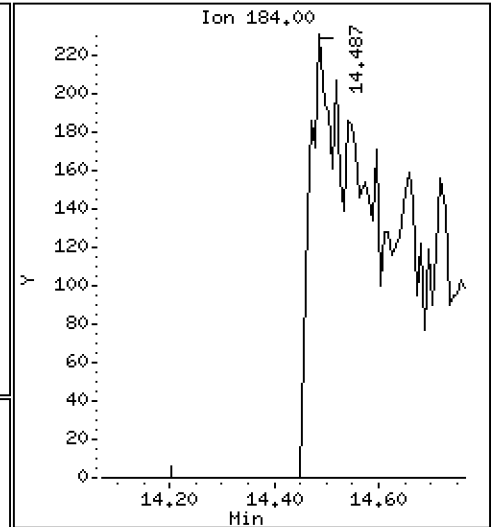
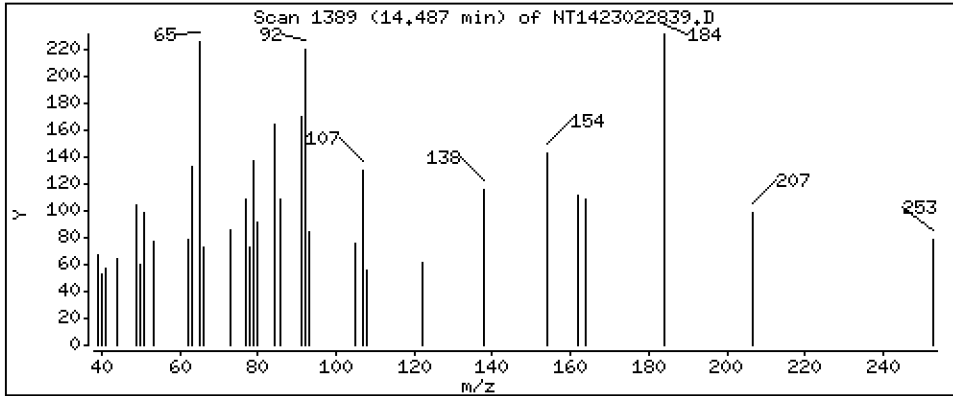
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

45 2,4-Dinitrophenol

Concentration: 0,3318 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

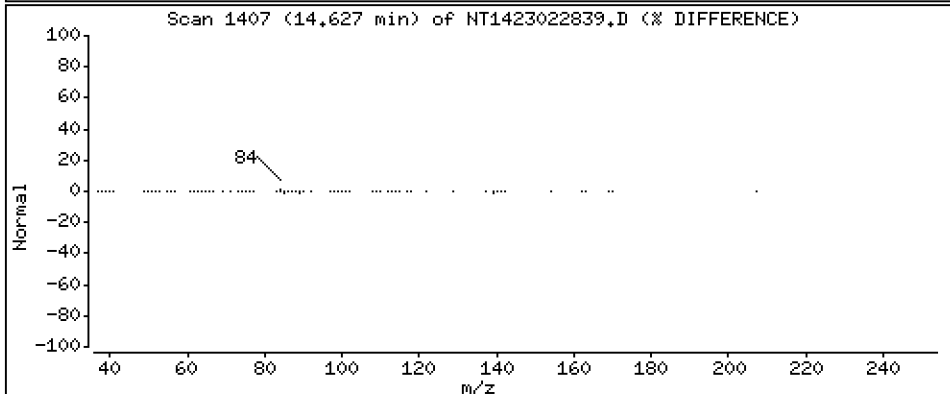
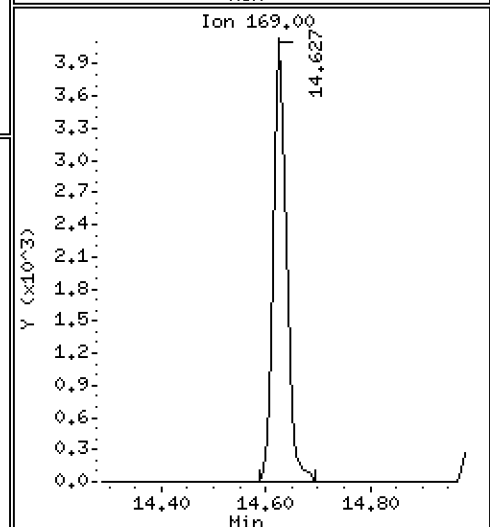
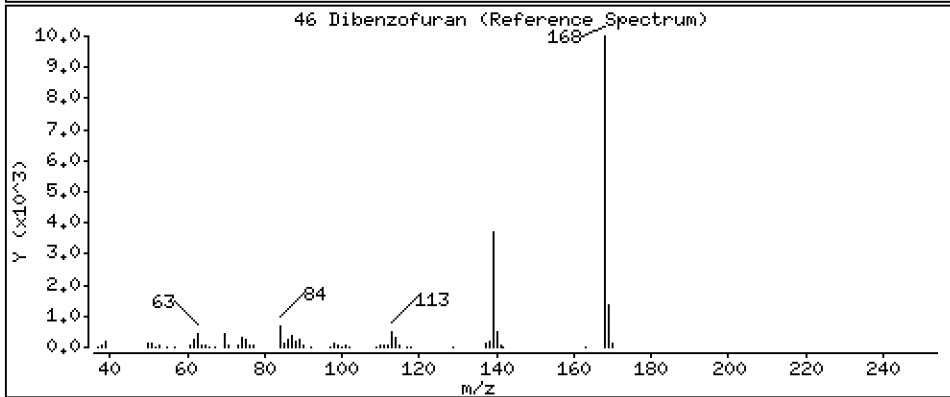
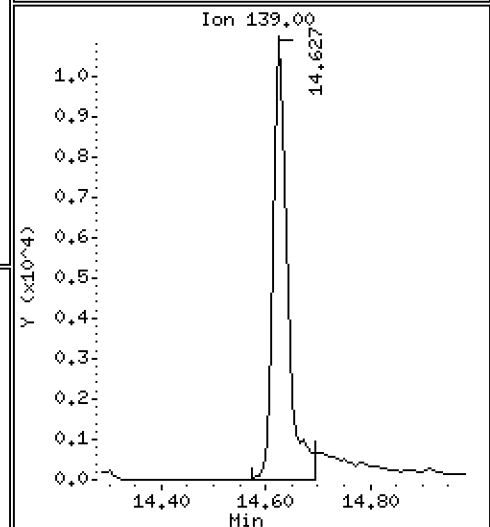
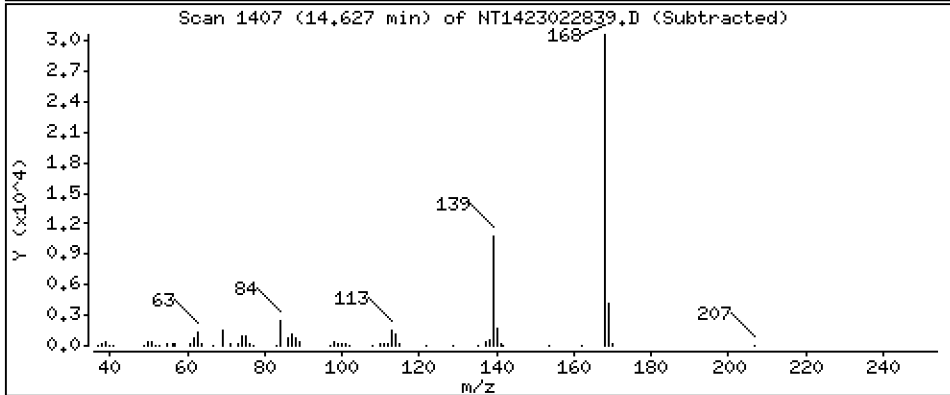
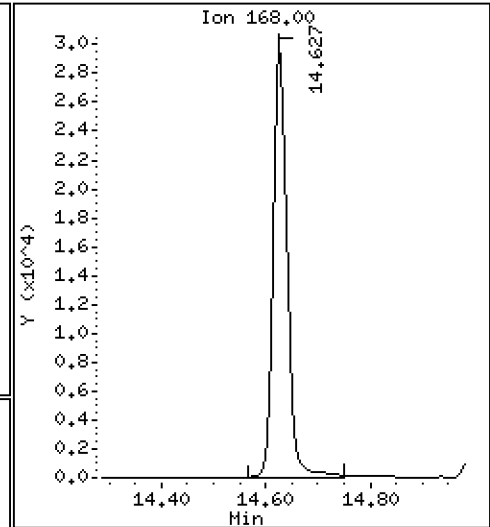
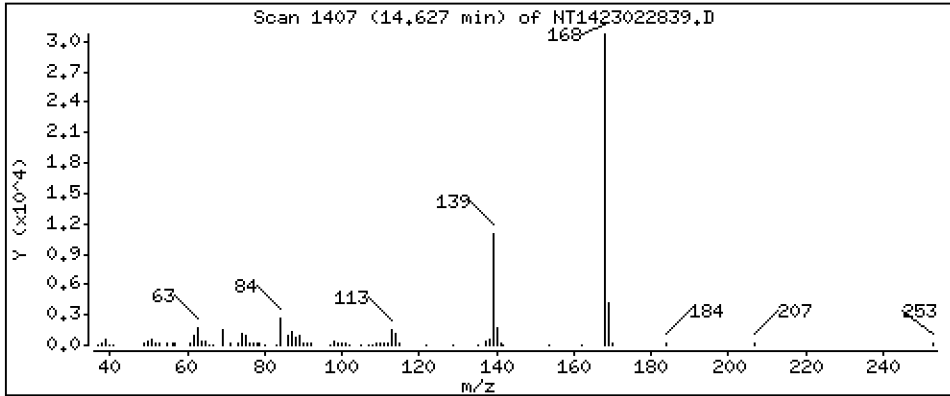
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 0,5026 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

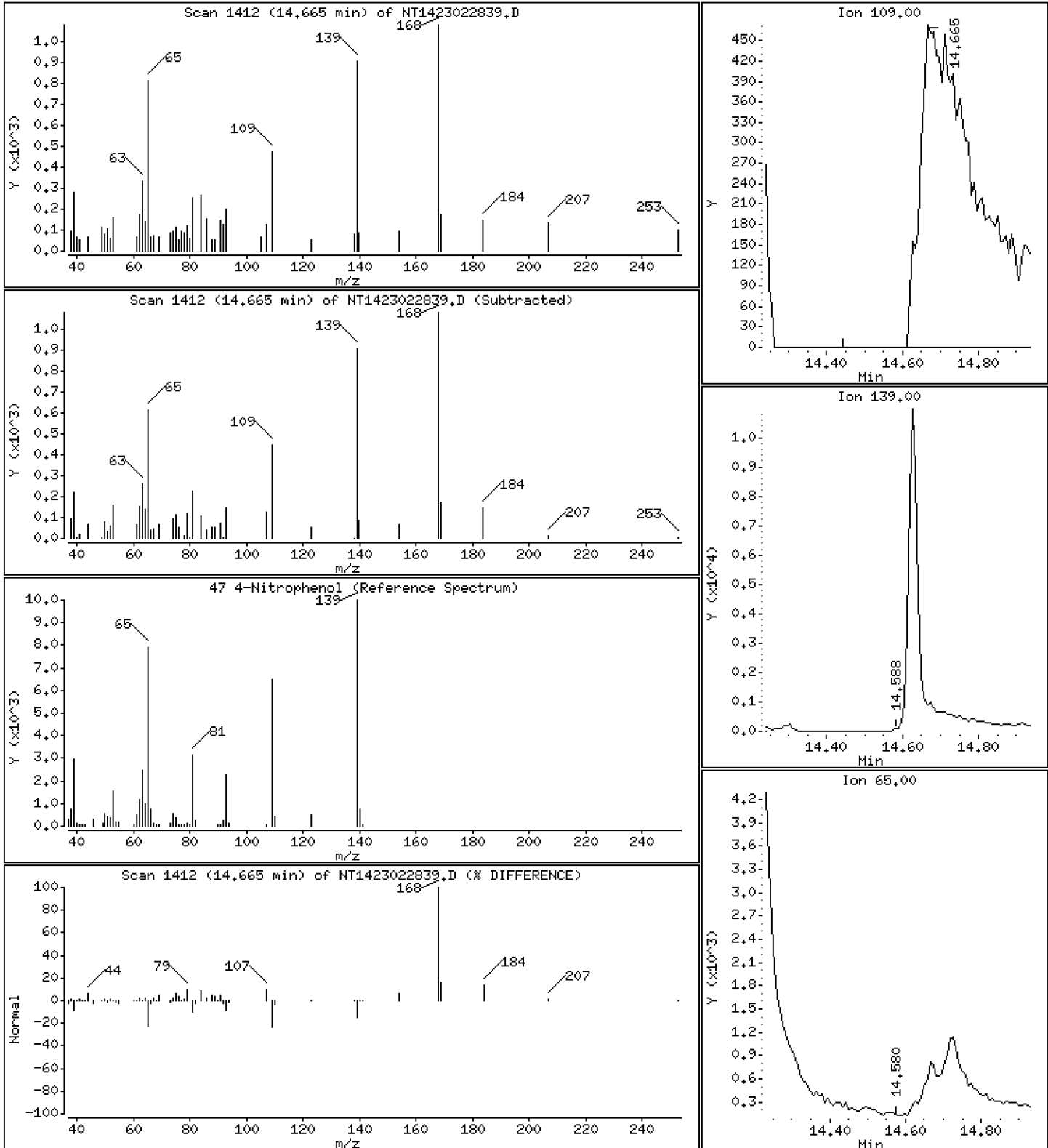
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

47 4-Nitrophenol

Concentration: 0,7739 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

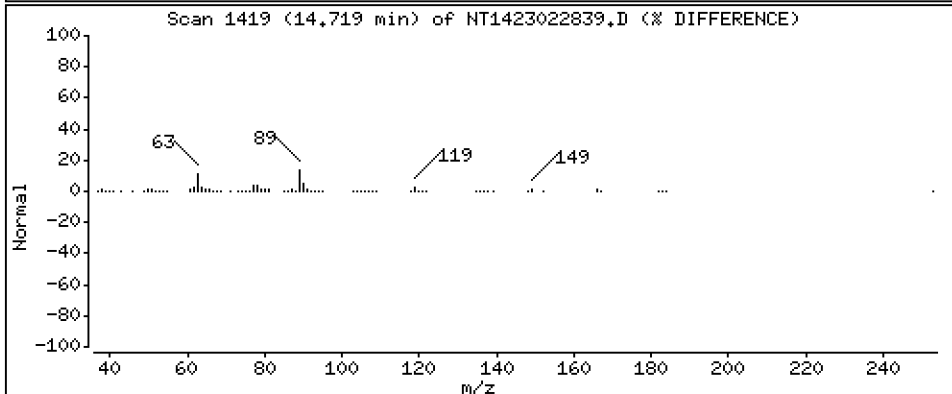
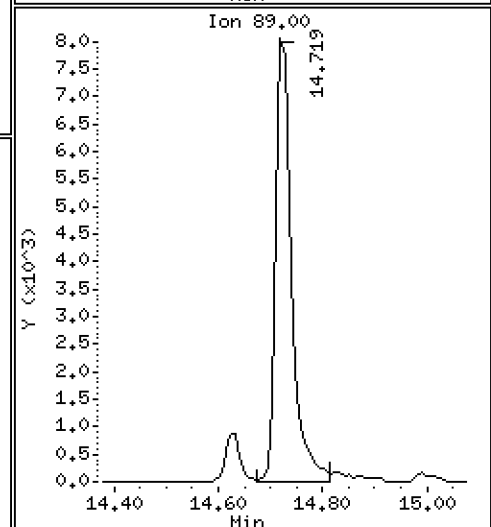
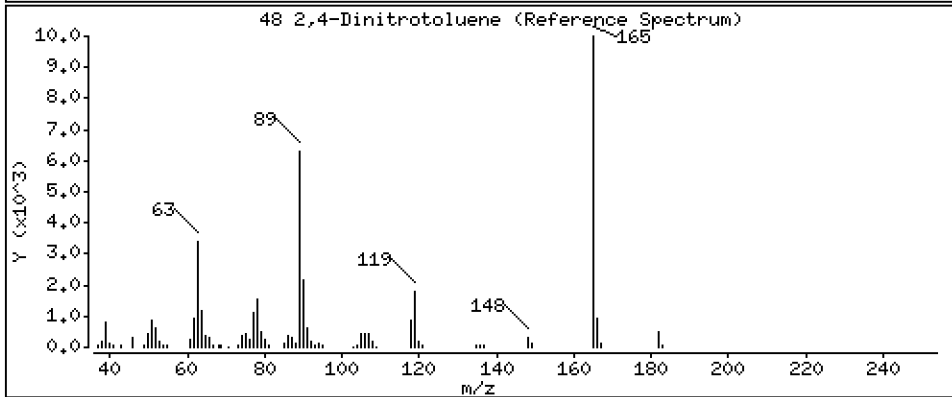
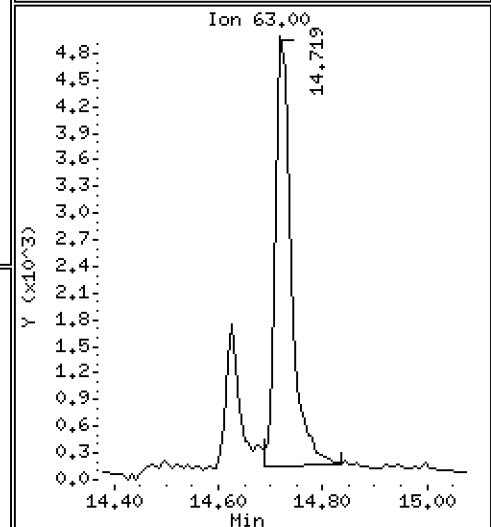
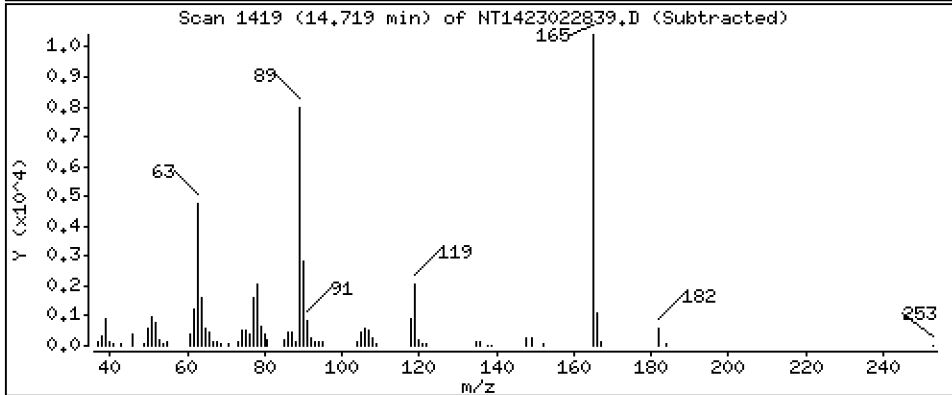
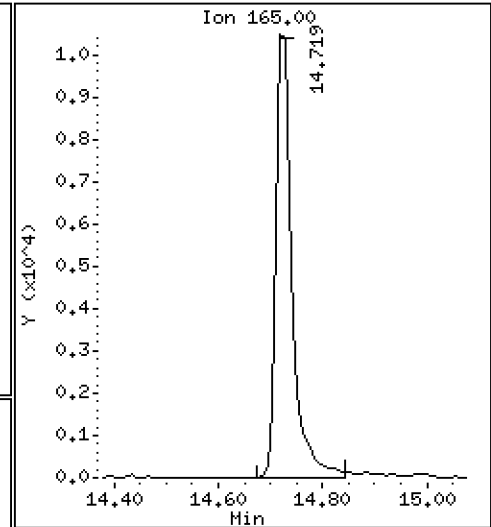
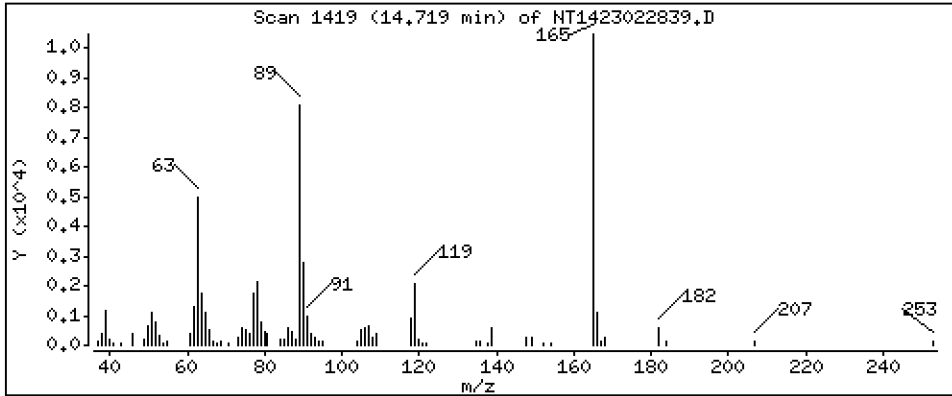
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

48 2,4-Dinitrotoluene

Concentration: 0.8778 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

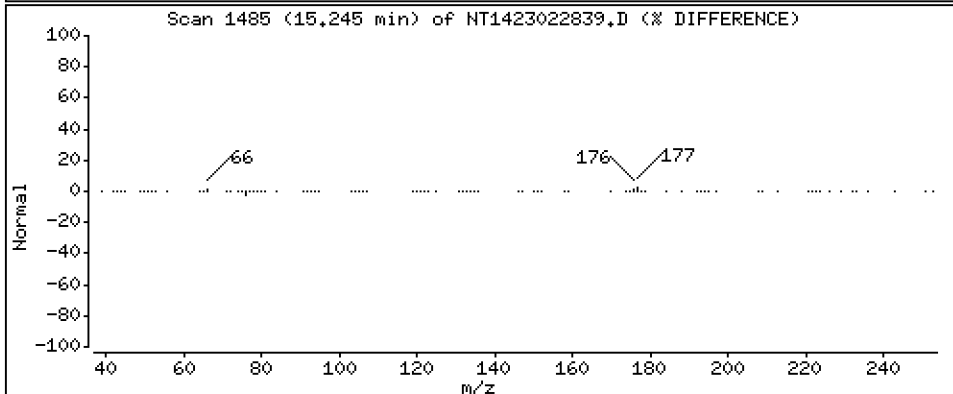
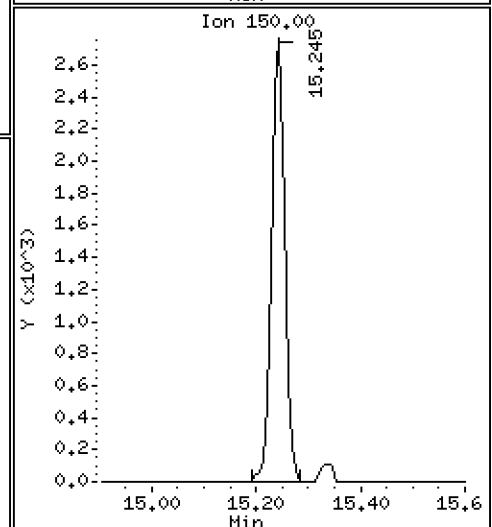
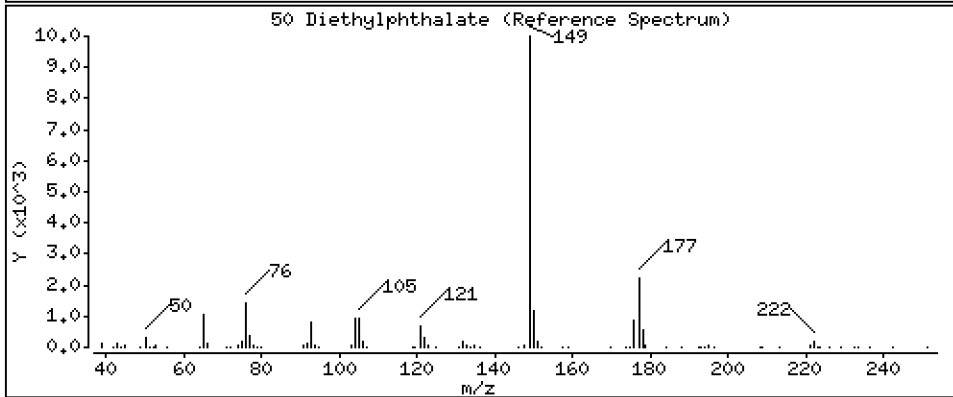
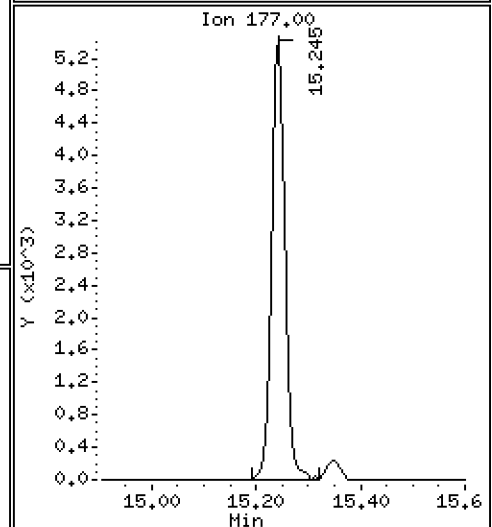
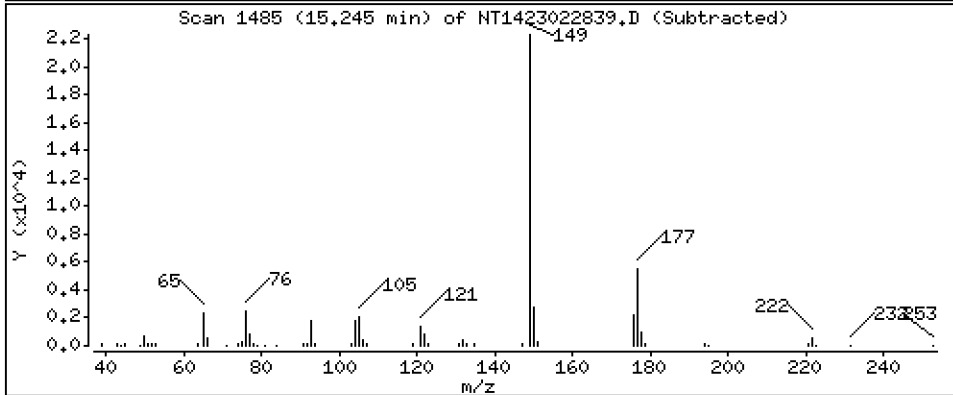
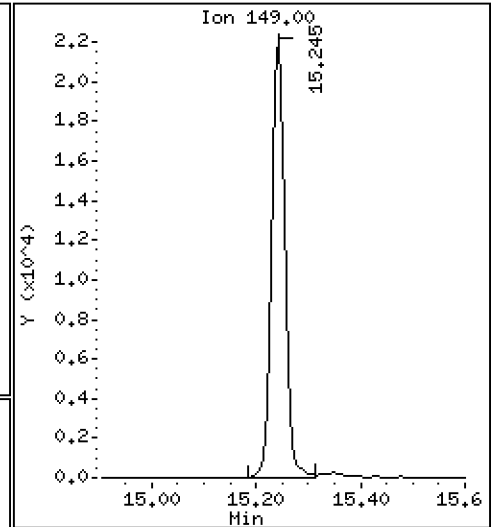
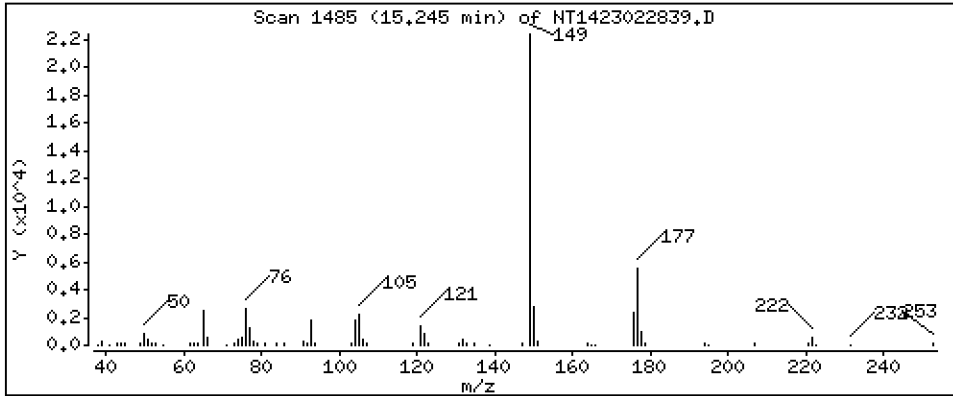
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 0,5507 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

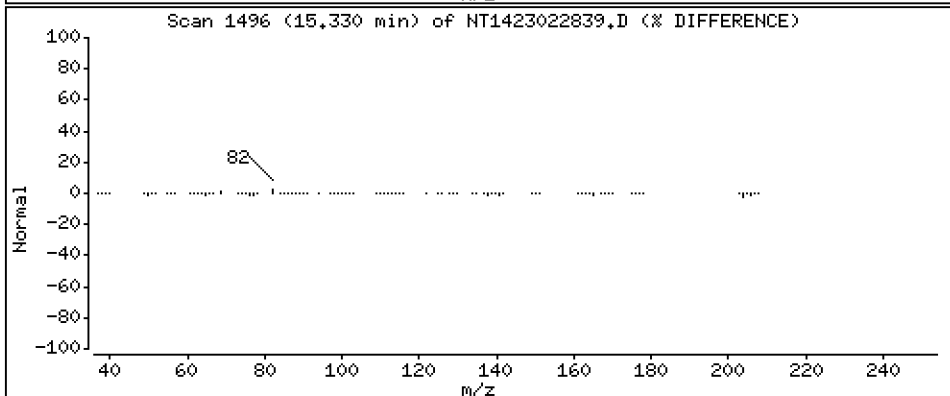
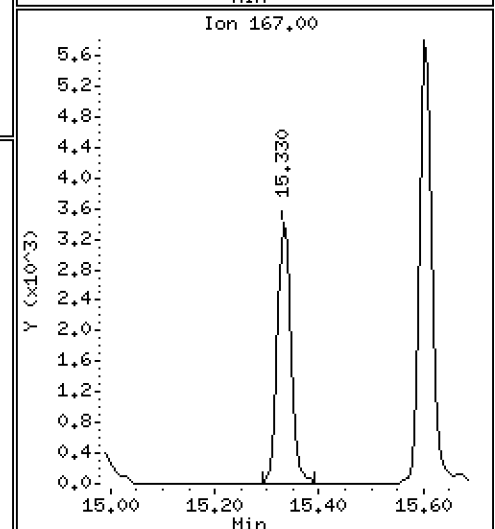
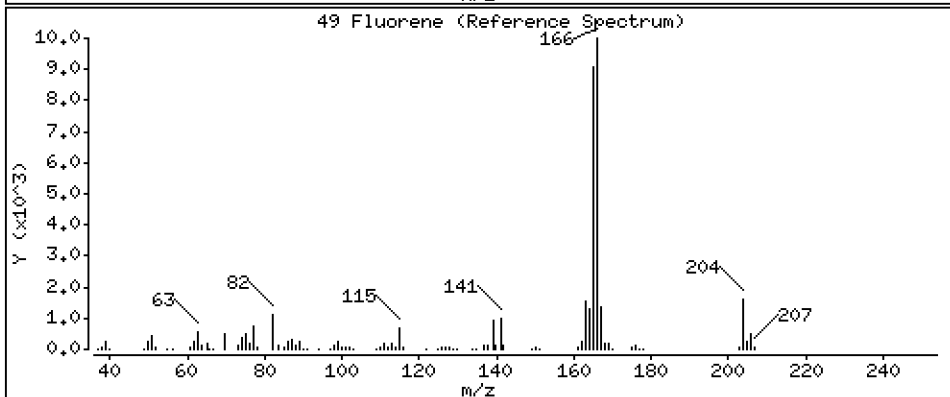
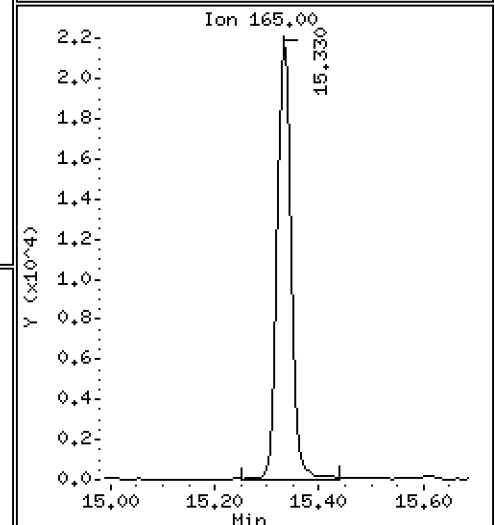
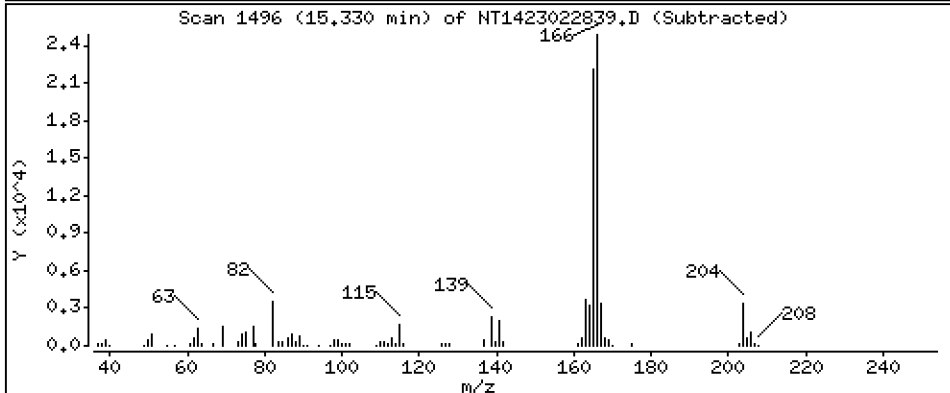
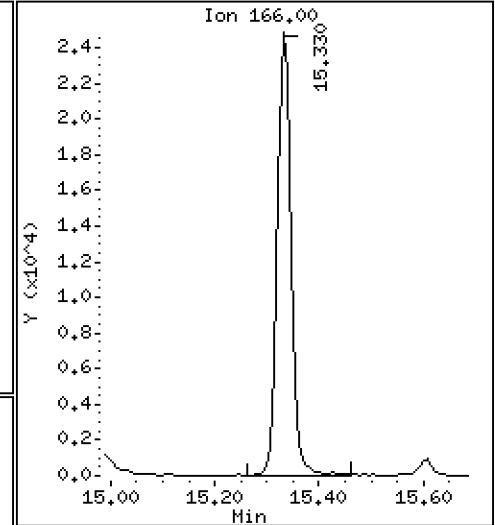
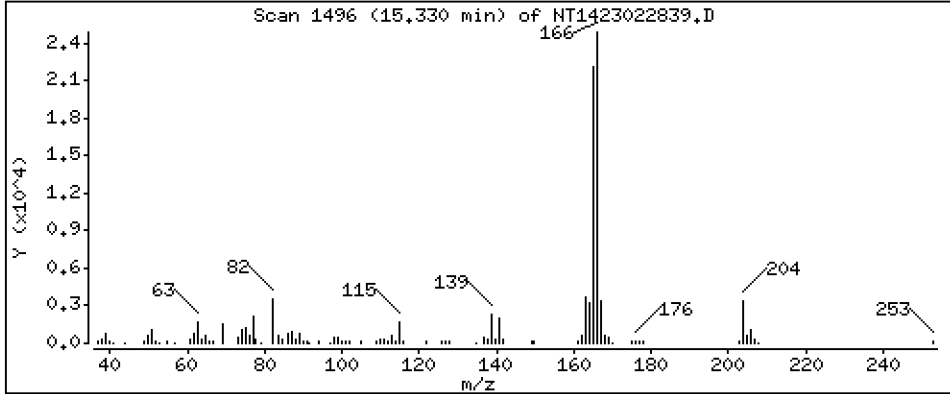
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 0,5207 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

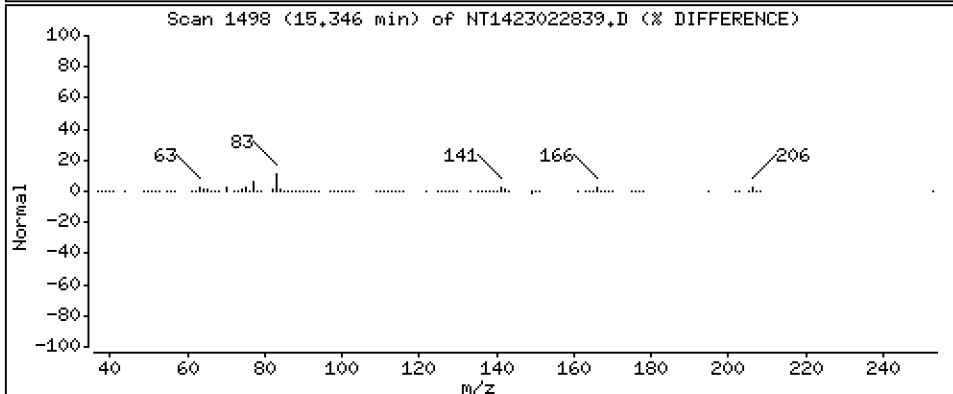
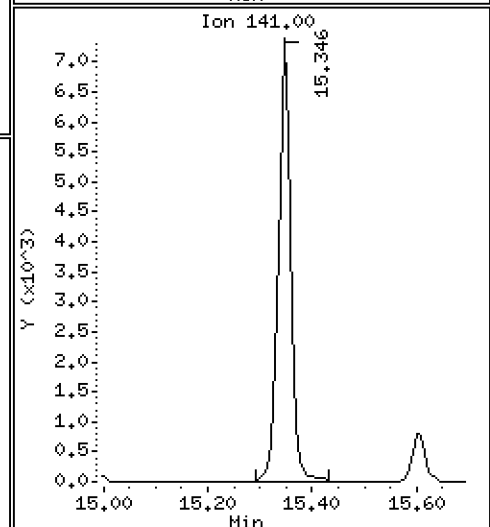
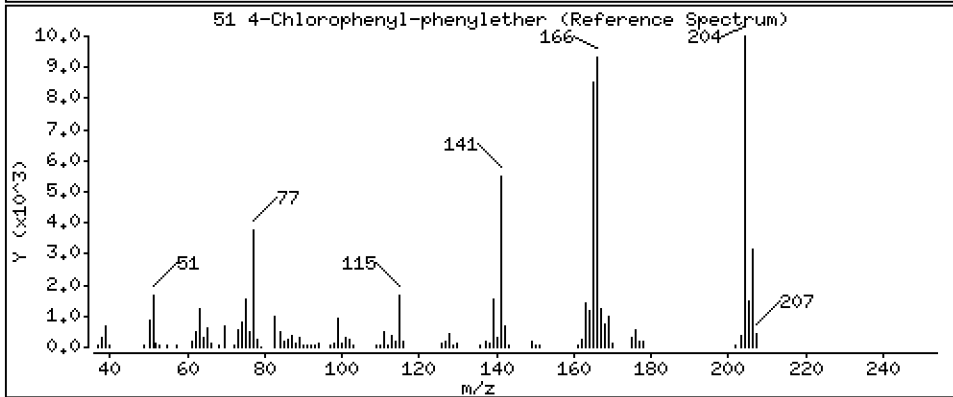
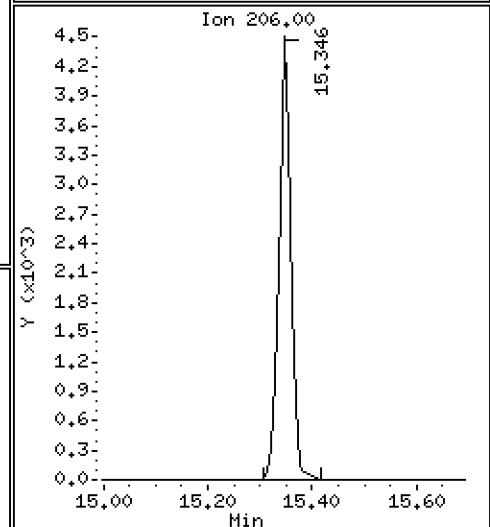
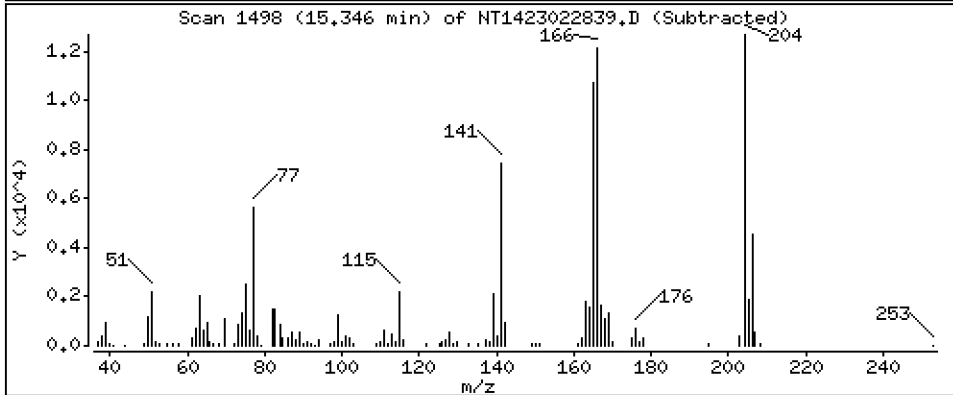
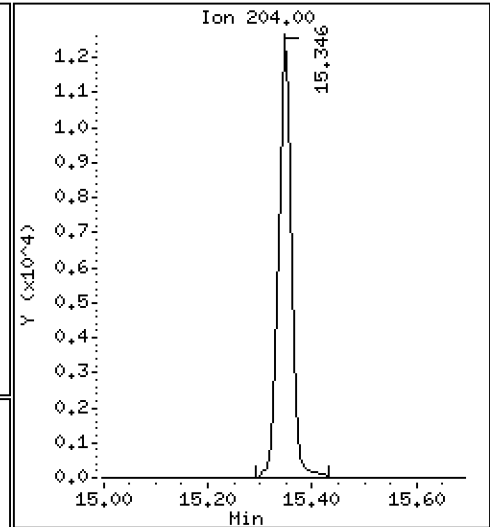
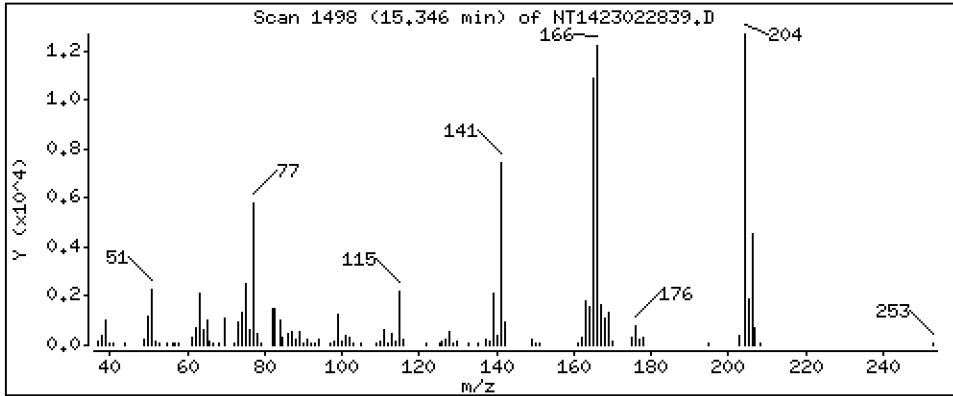
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 0,4945 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

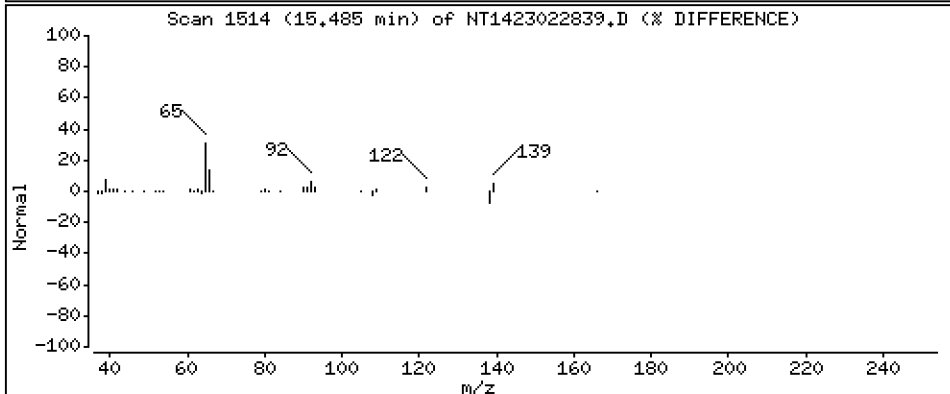
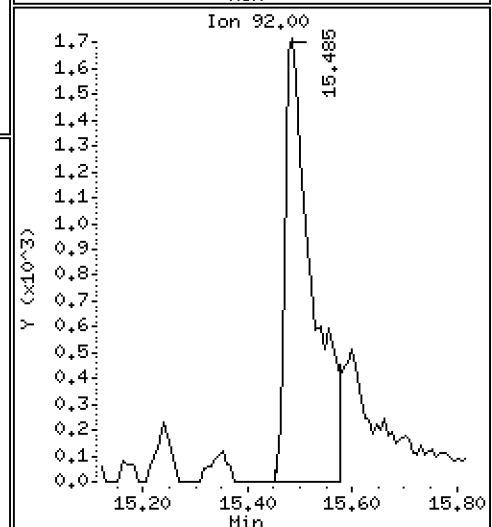
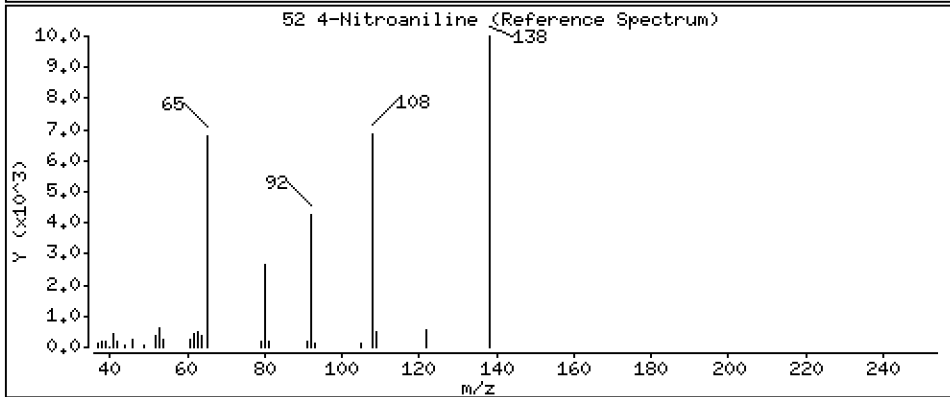
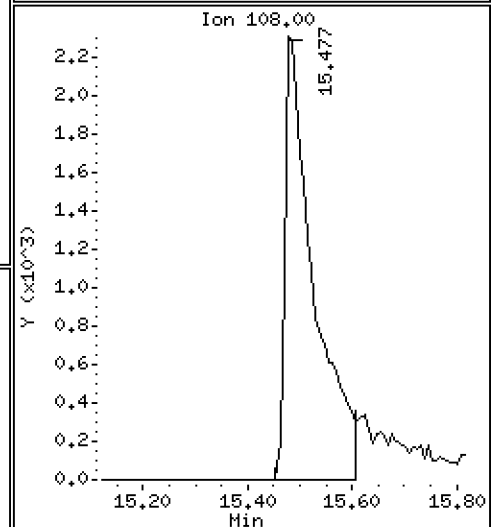
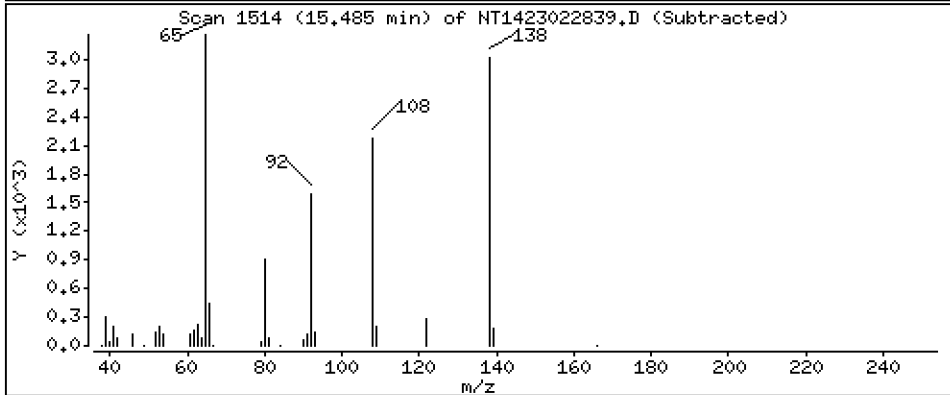
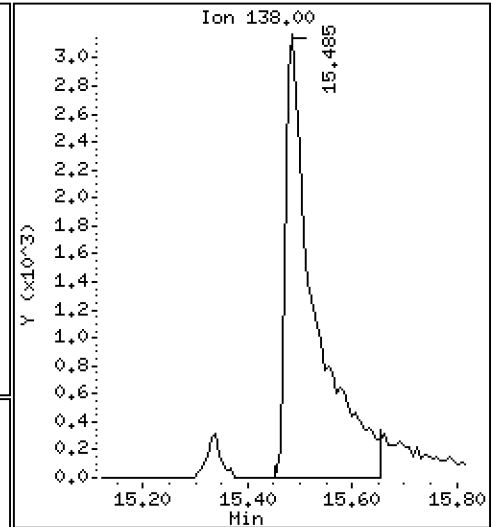
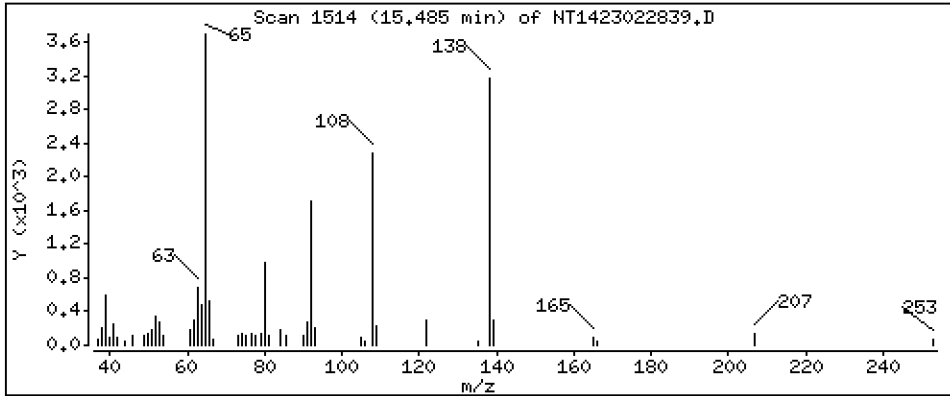
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

52 4-Nitroaniline

Concentration: 0,7157 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

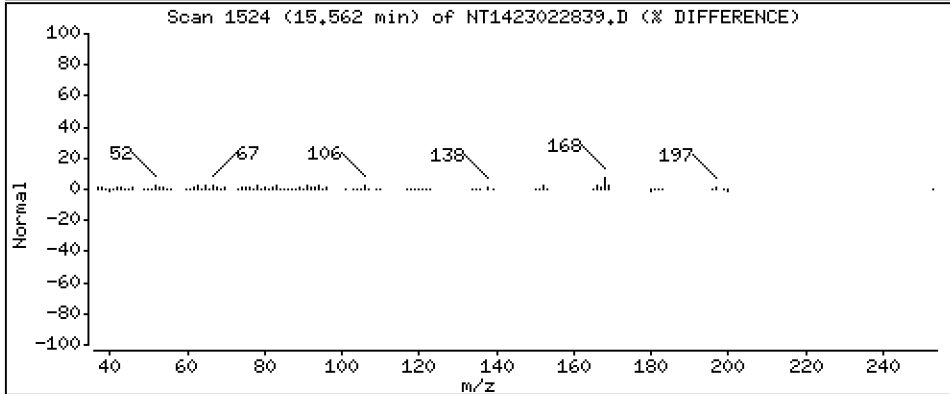
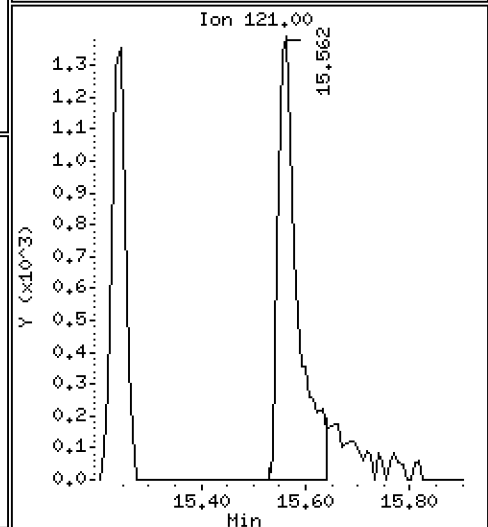
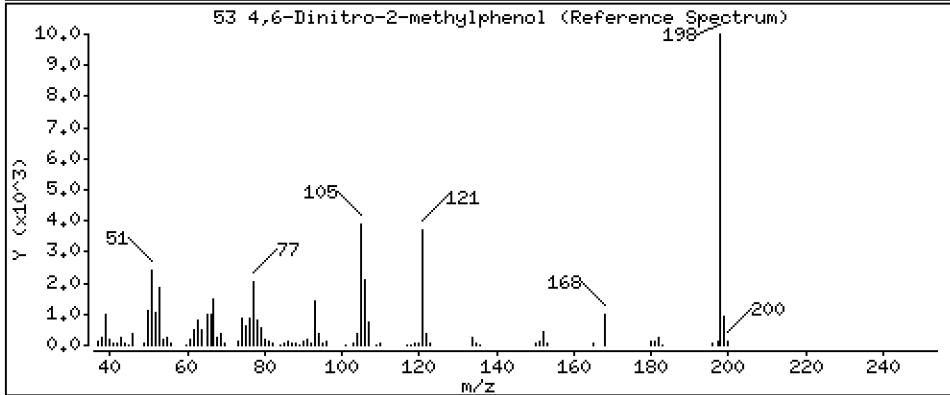
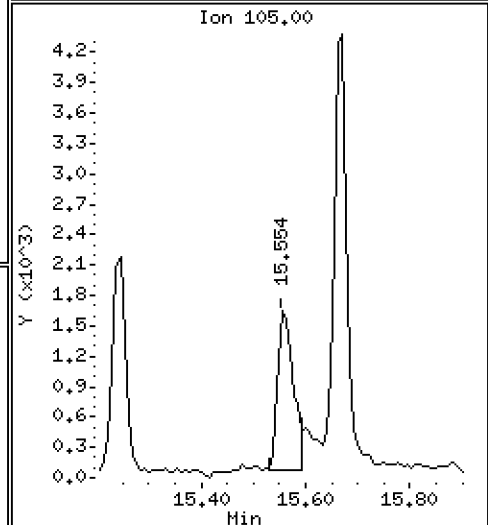
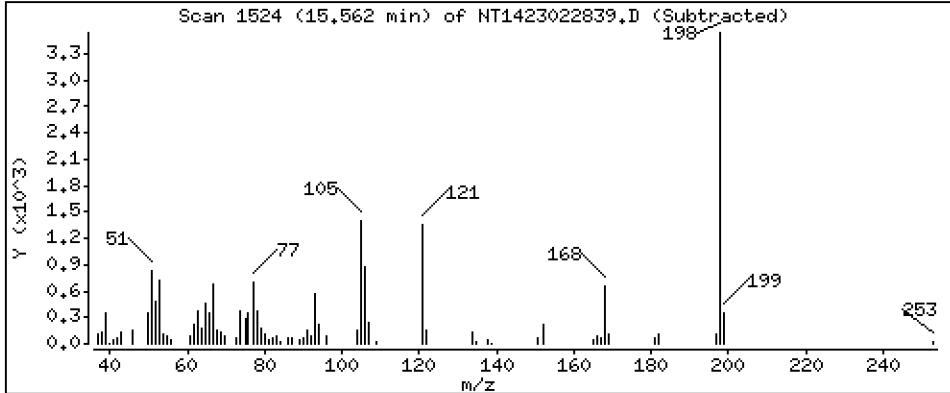
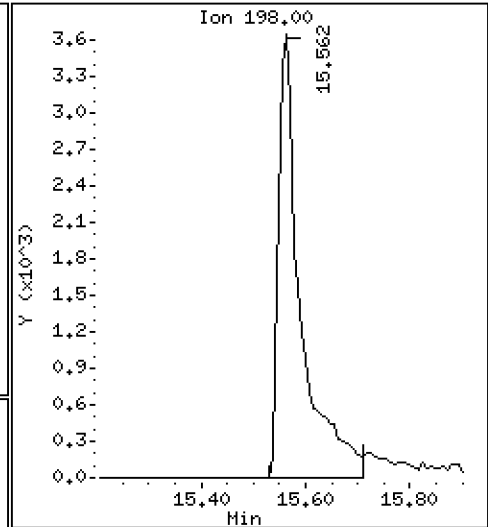
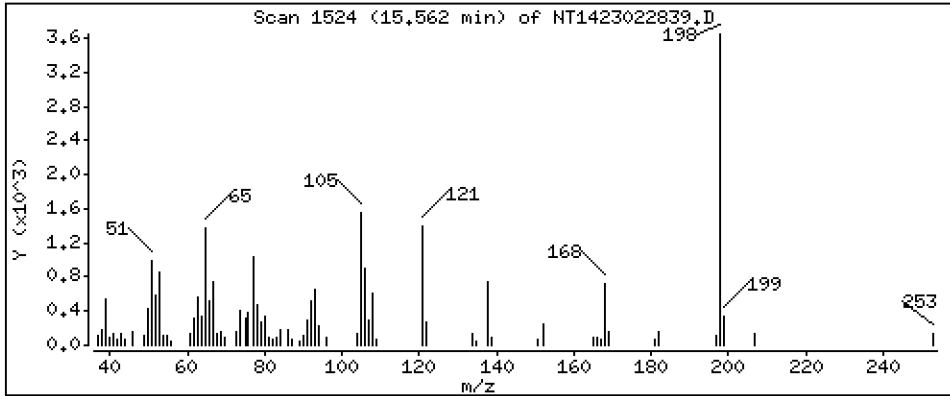
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

53 4,6-Dinitro-2-methylphenol

Concentration: 0,7601 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

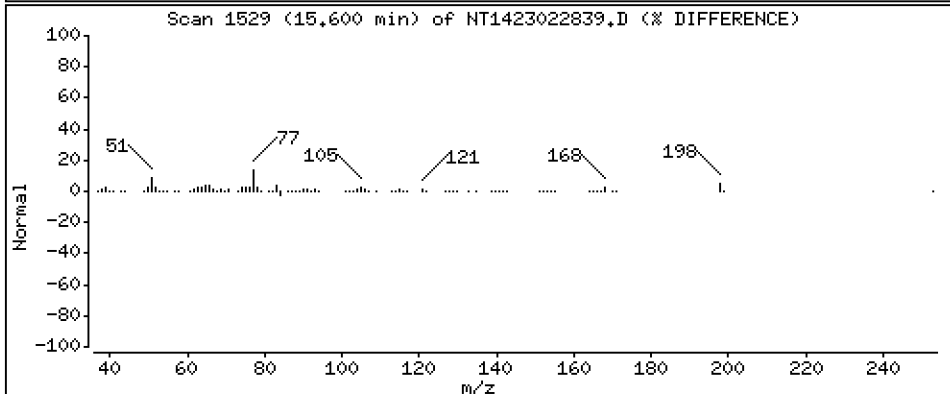
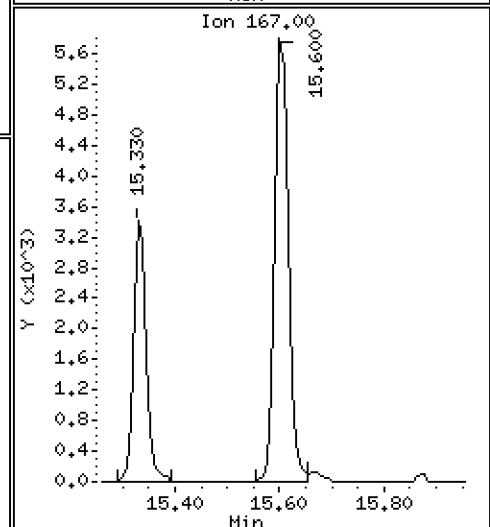
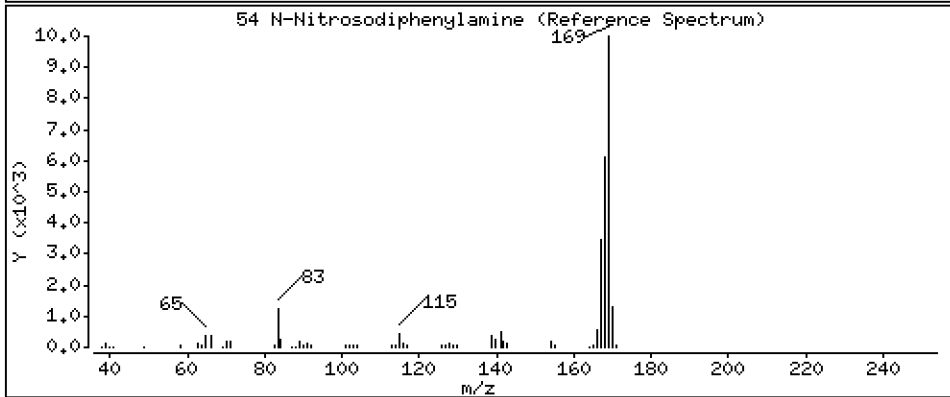
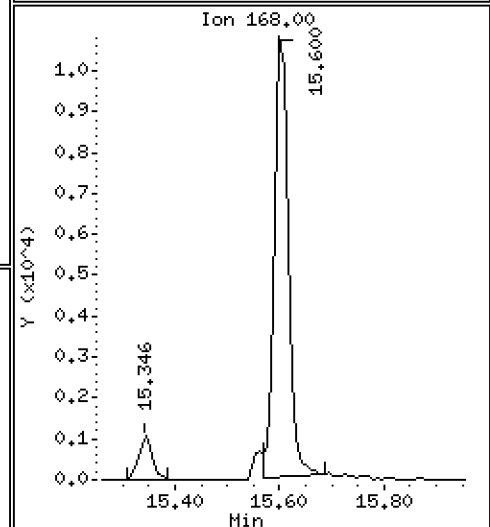
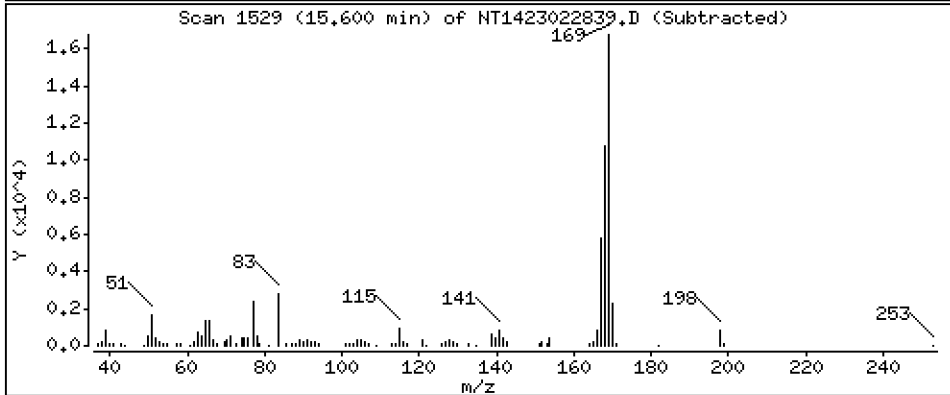
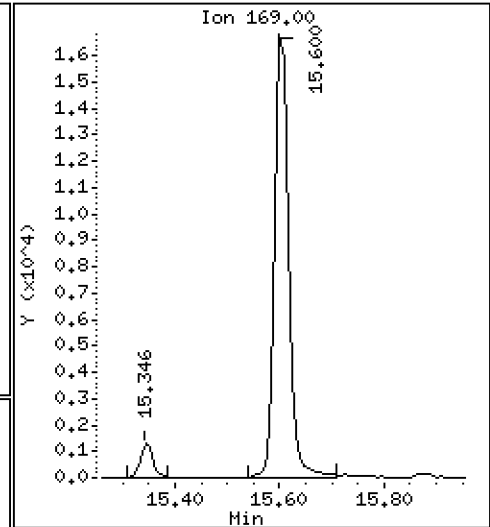
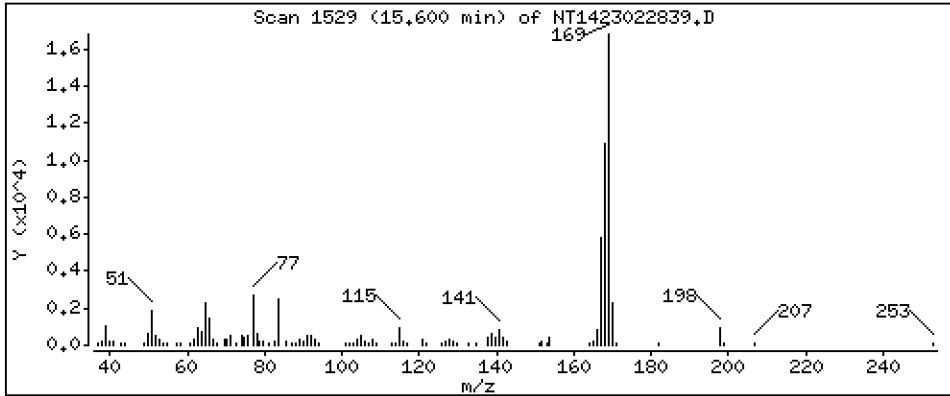
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

54 N-Nitrosodiphenylamine

Concentration: 0,5643 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

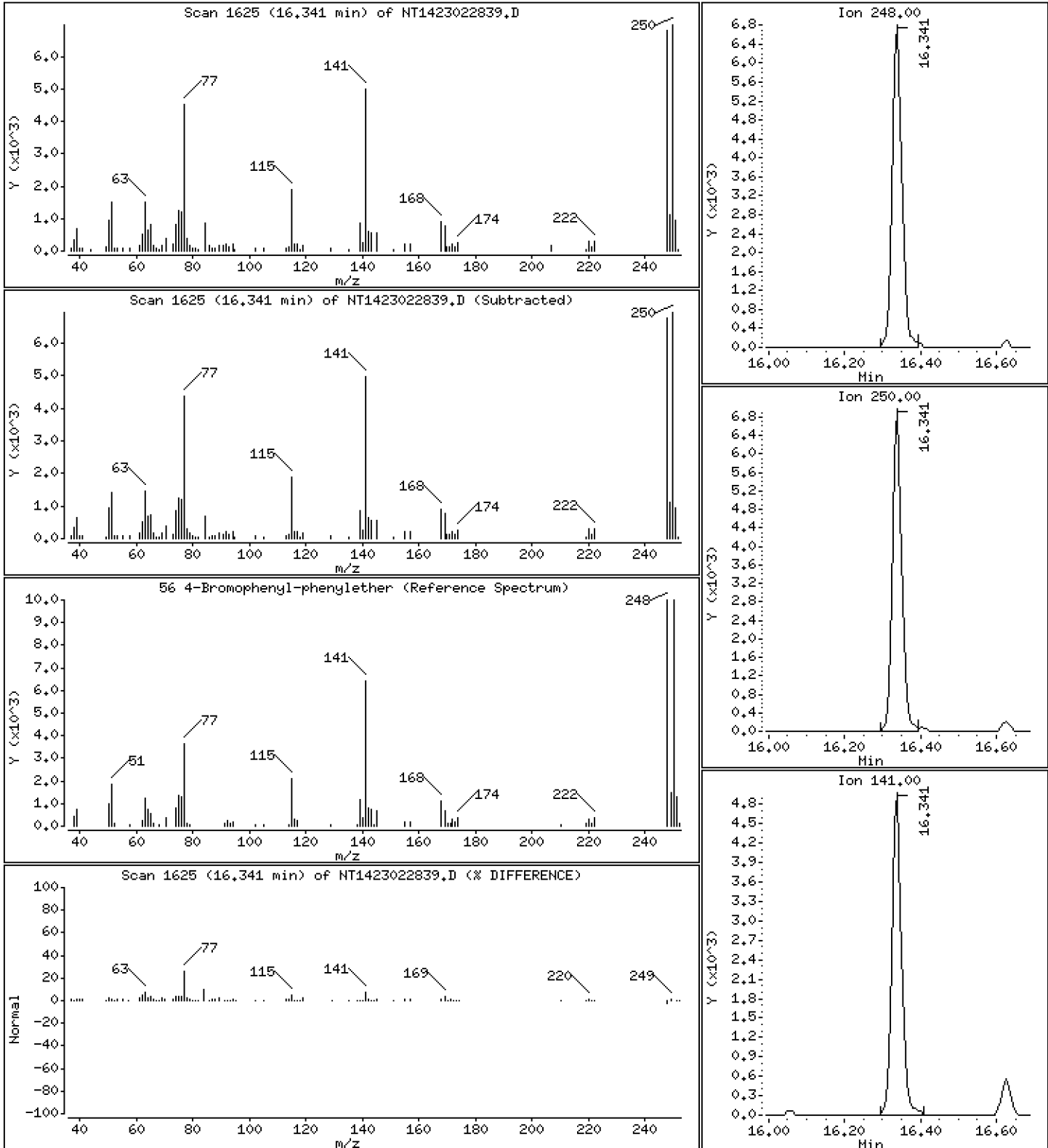
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 0,5071 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

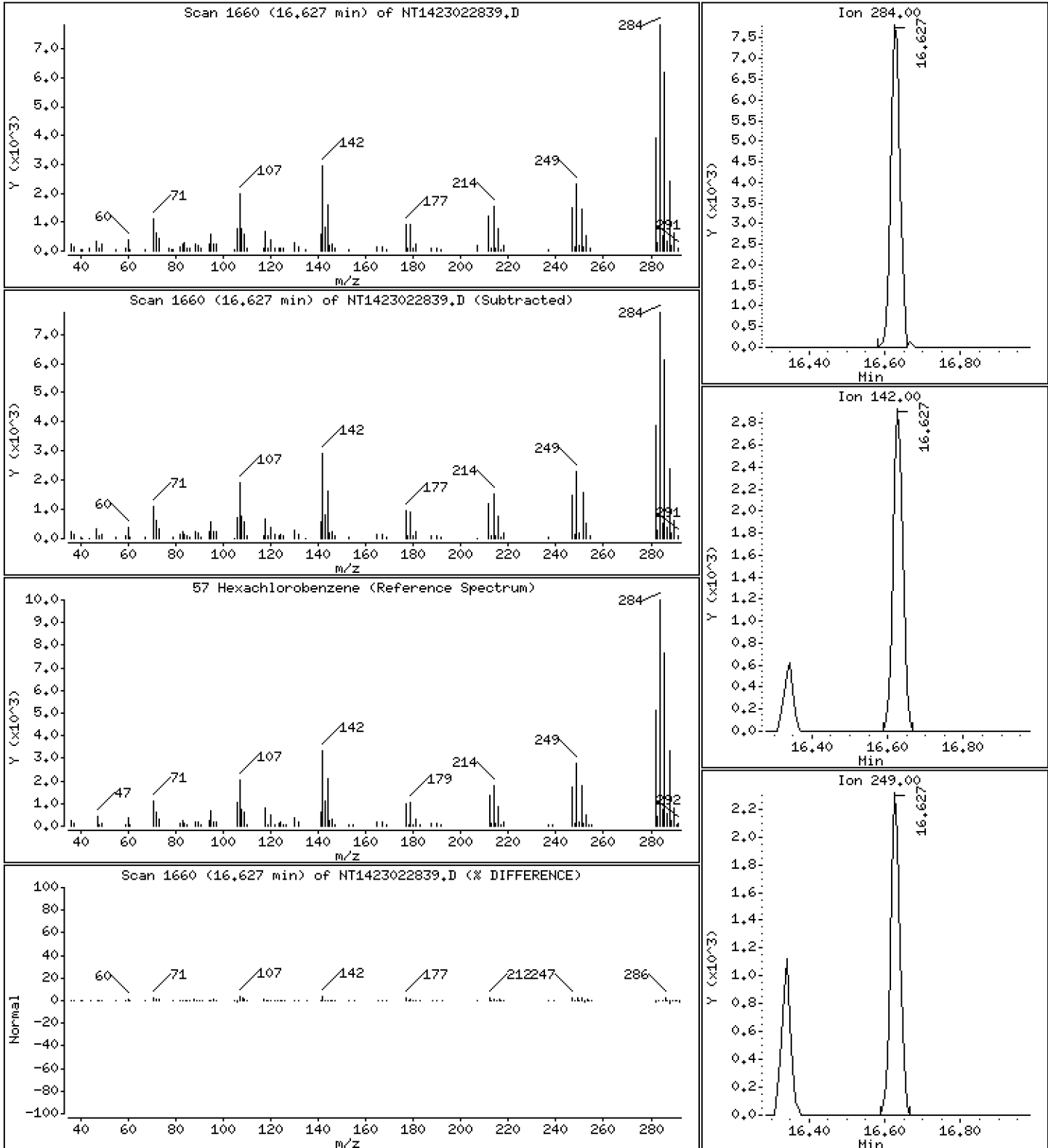
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

57 Hexachlorobenzene

Concentration: 0.5253 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

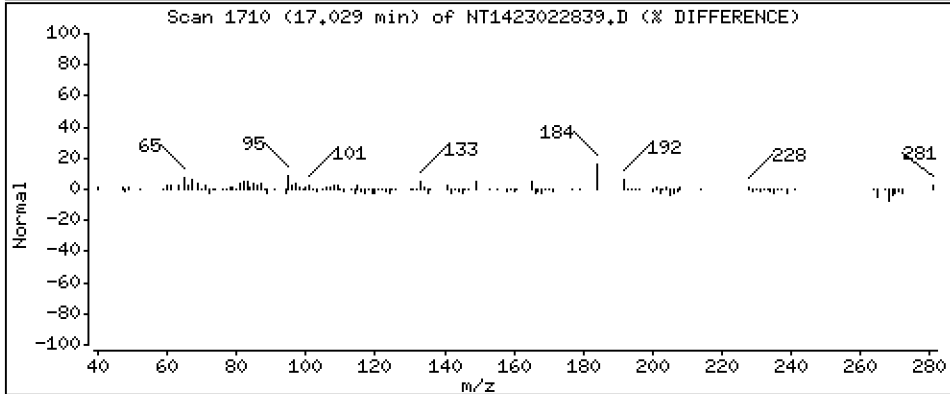
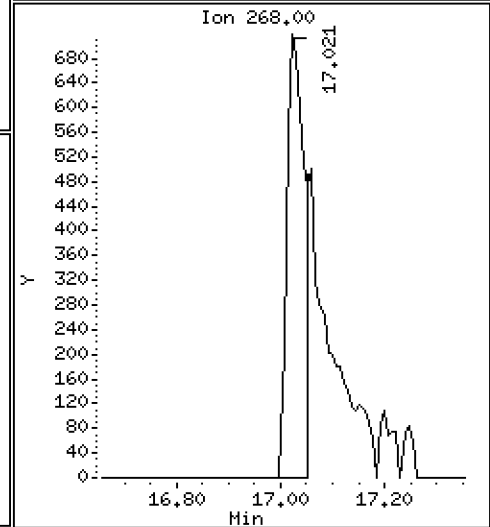
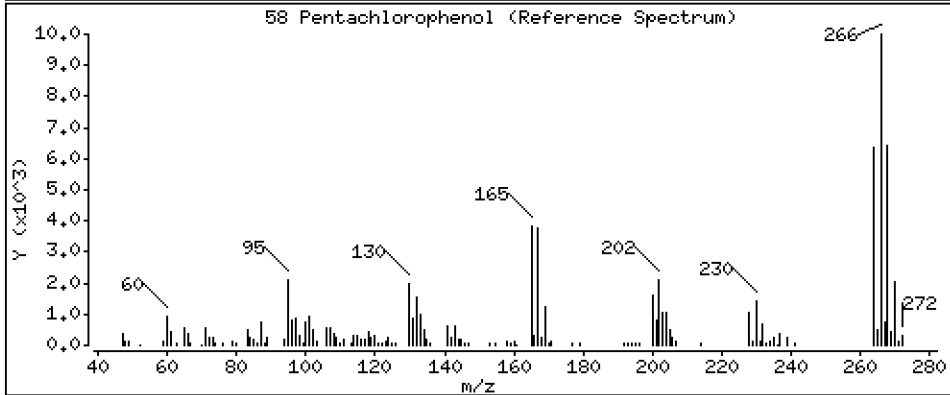
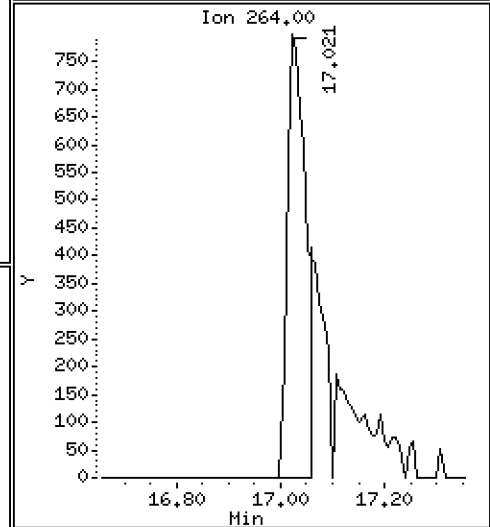
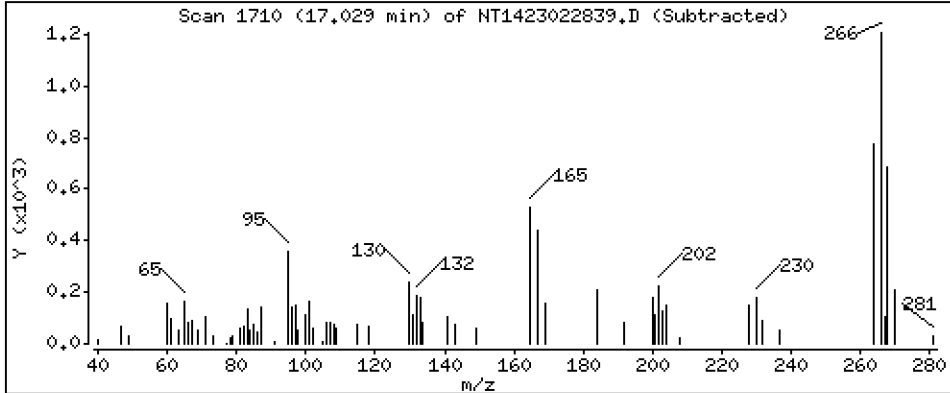
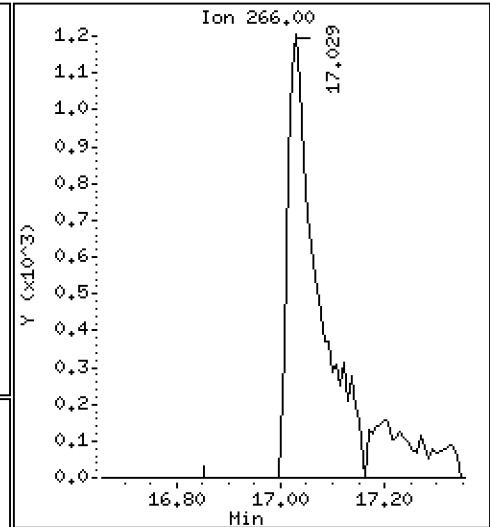
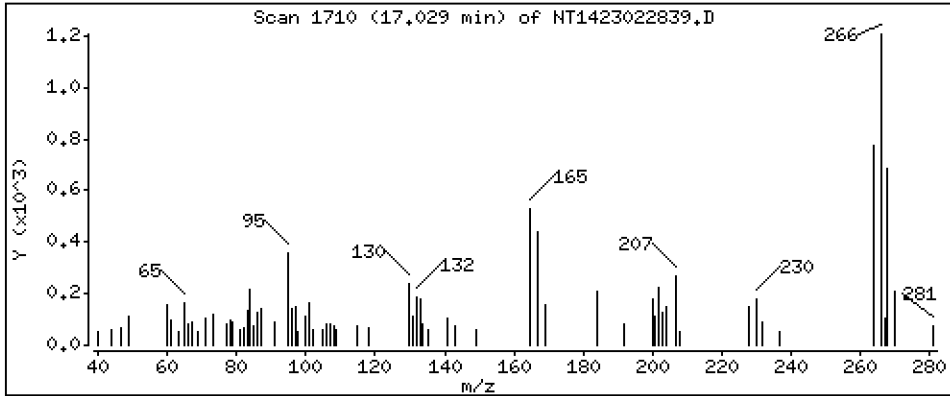
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

58 Pentachlorophenol

Concentration: 0.5024 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

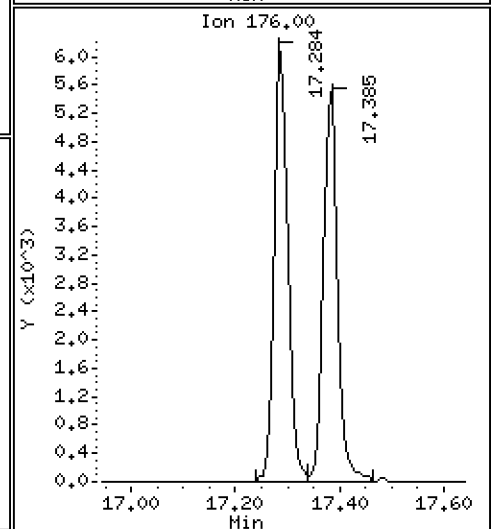
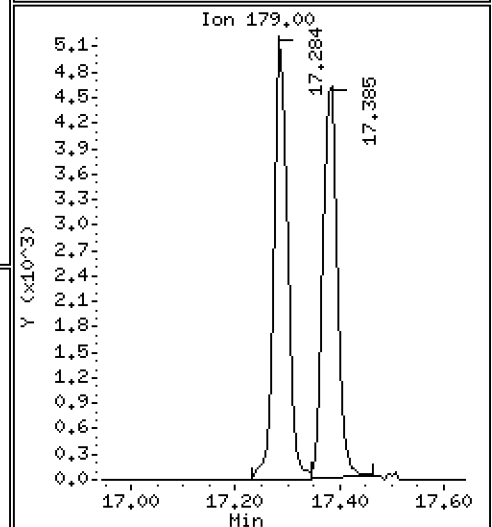
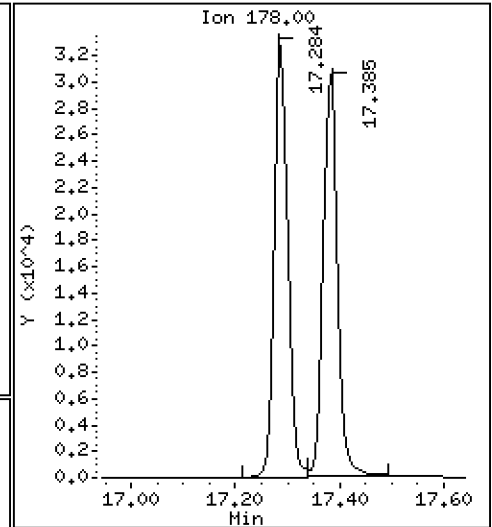
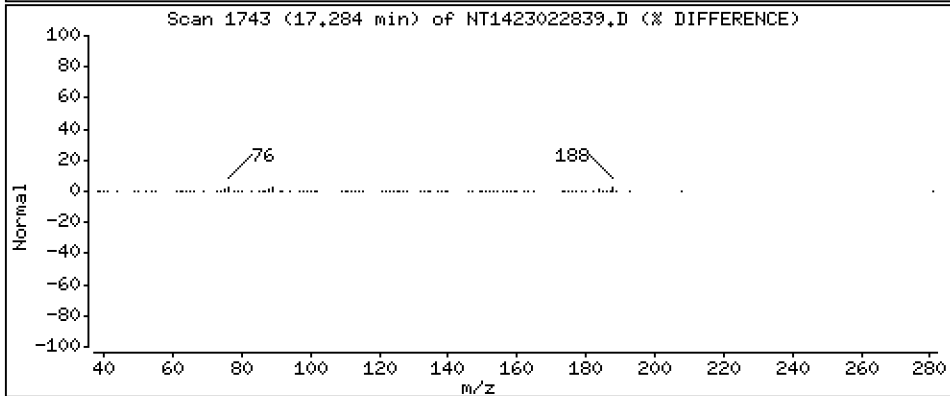
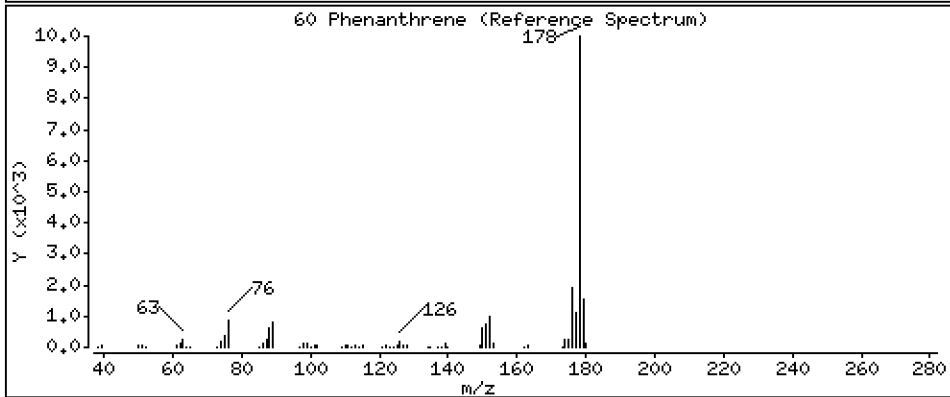
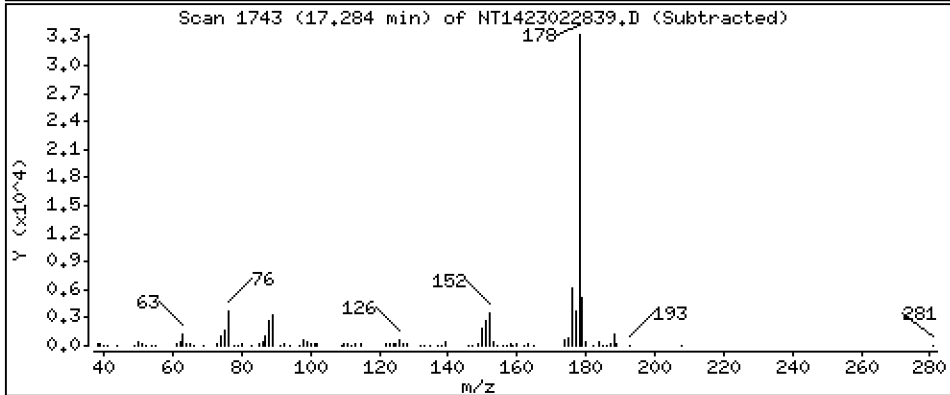
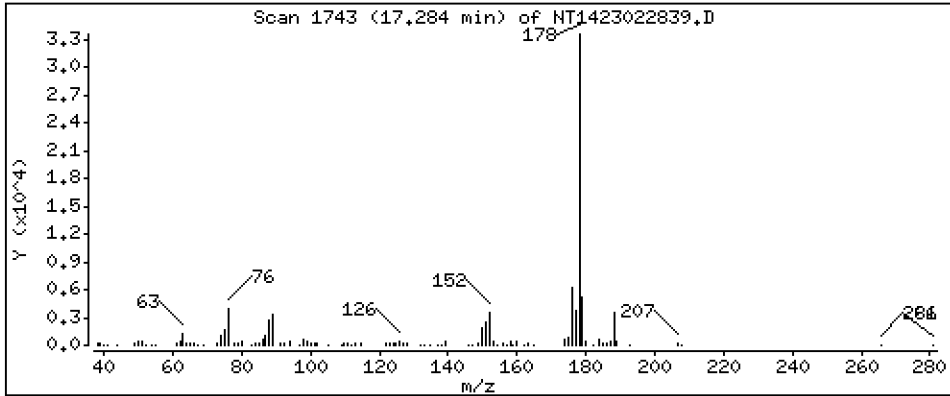
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 0,5152 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

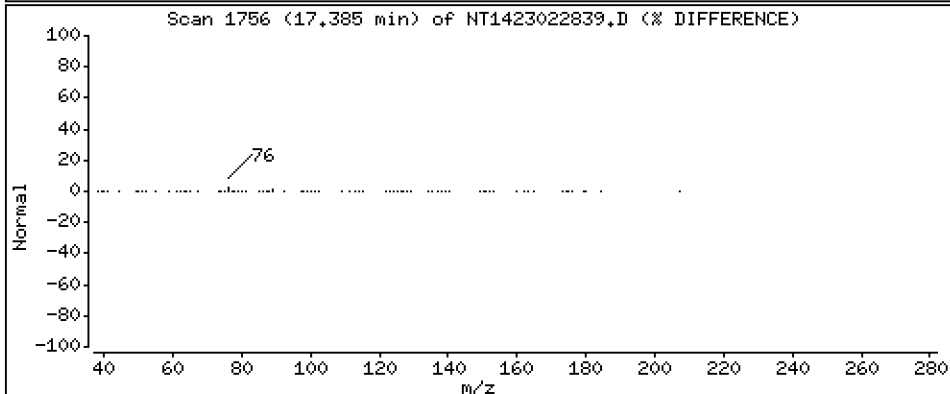
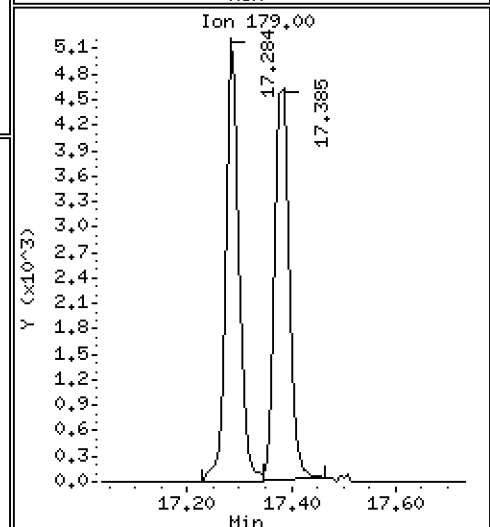
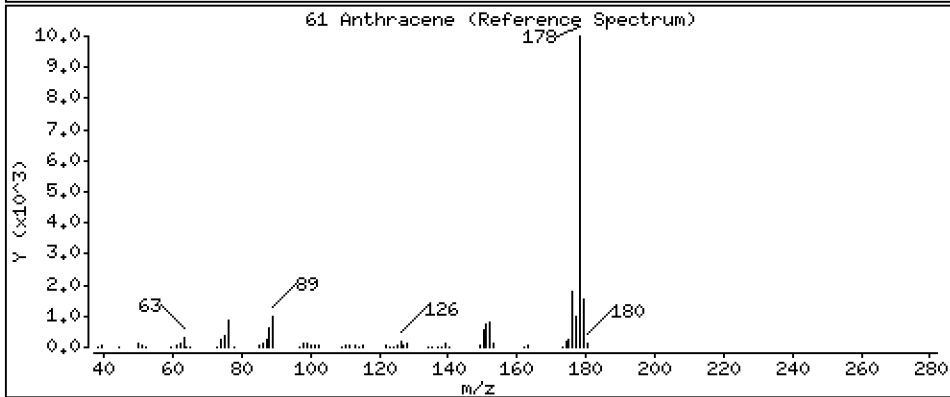
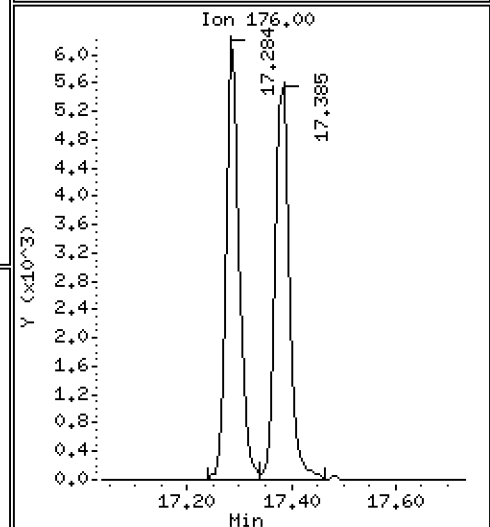
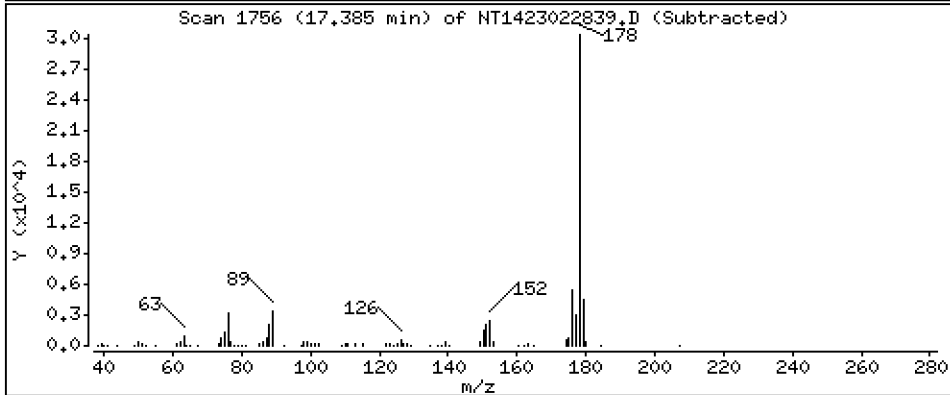
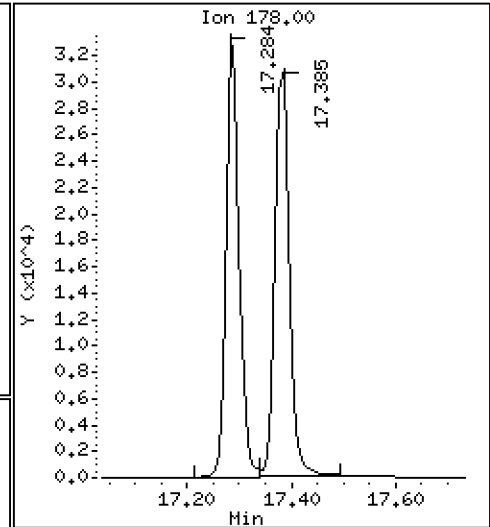
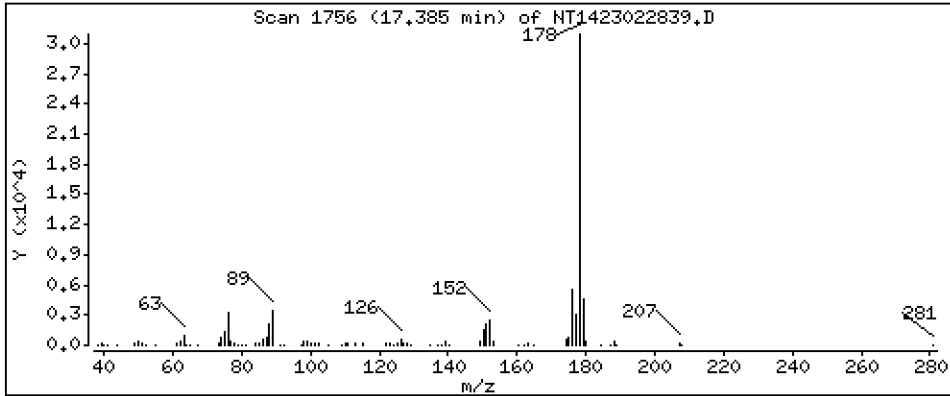
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 0,5316 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

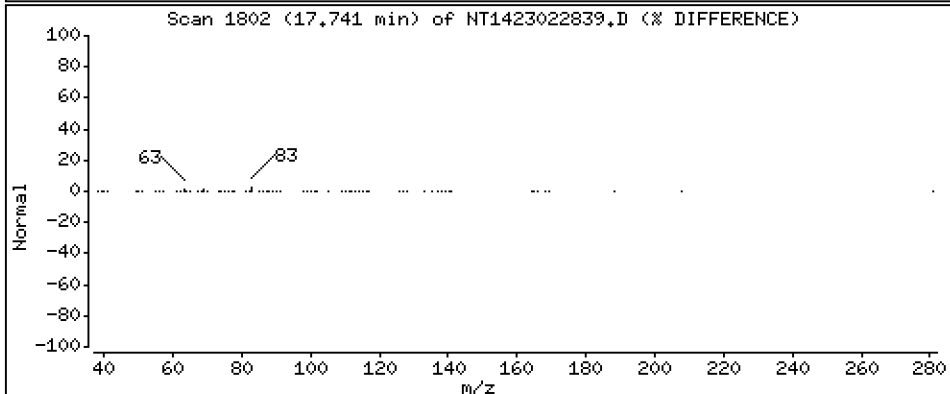
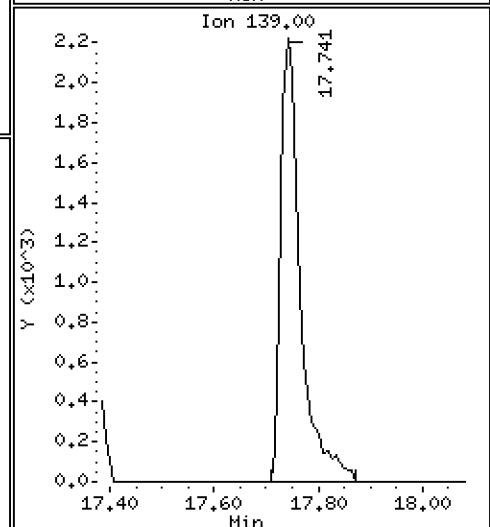
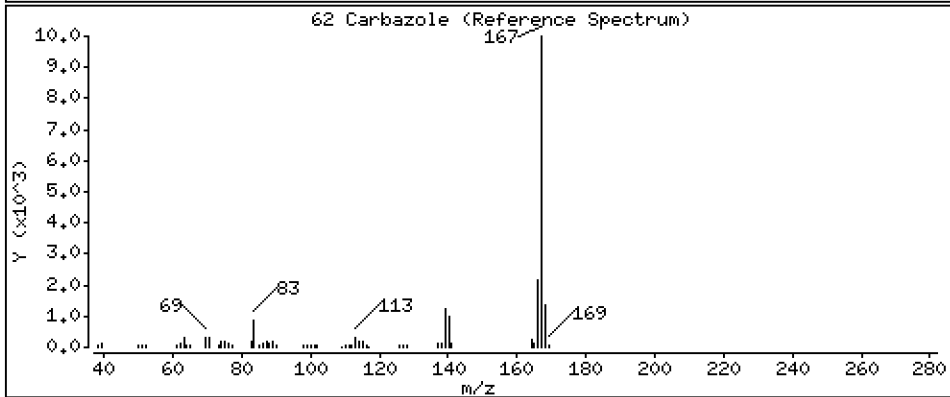
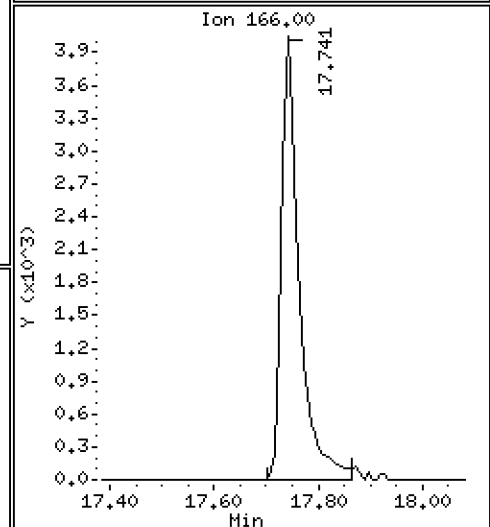
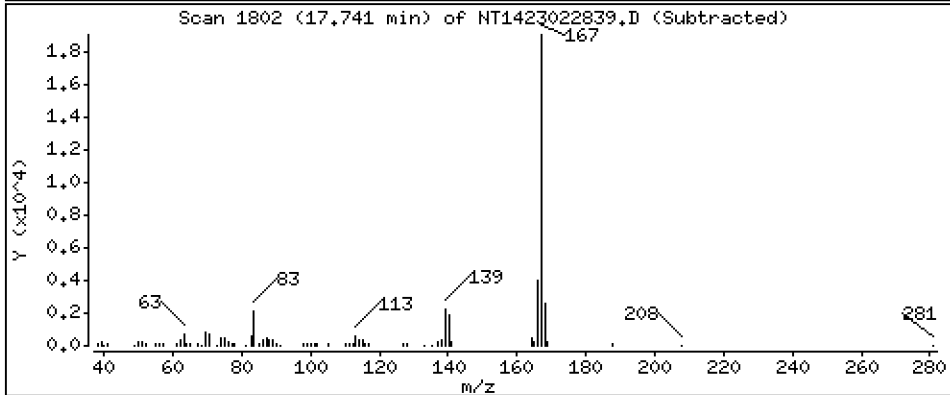
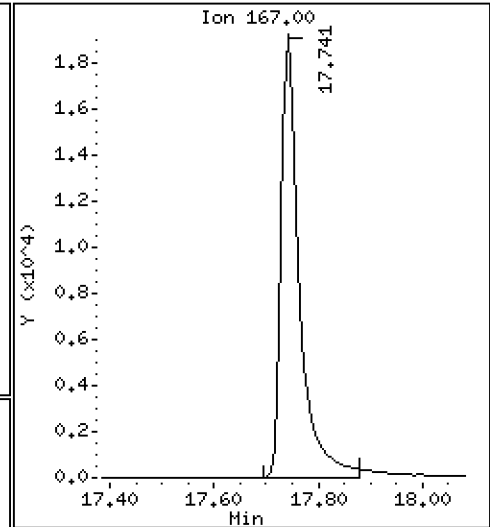
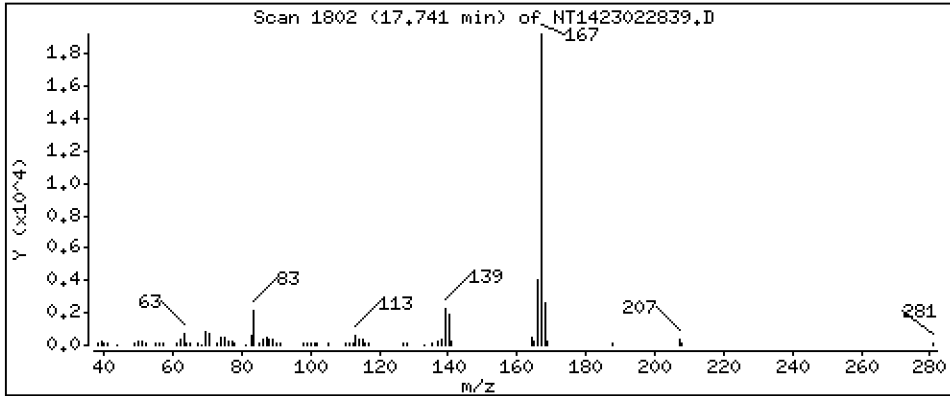
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 0,4911 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

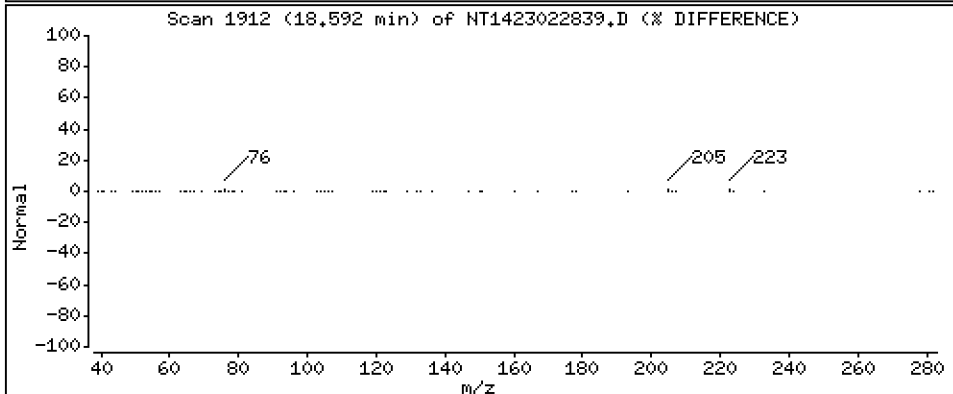
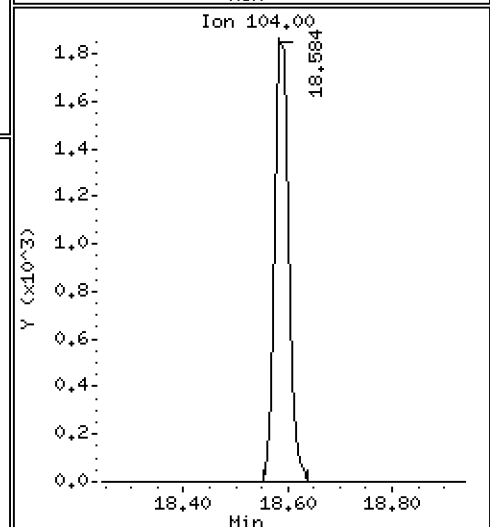
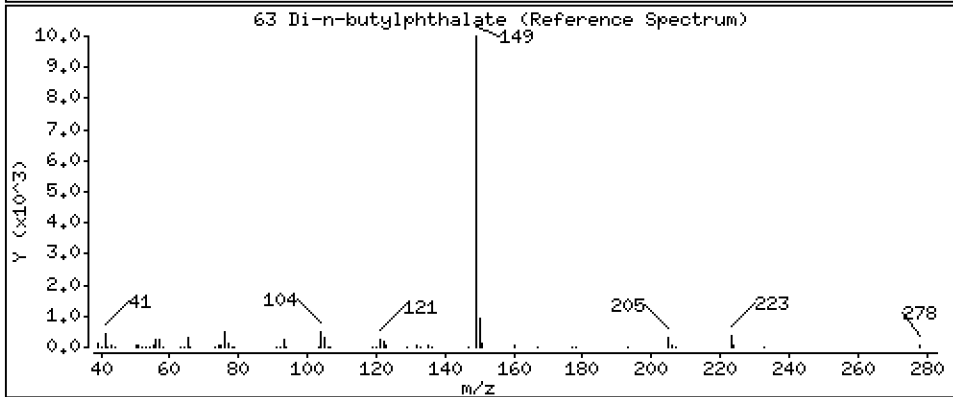
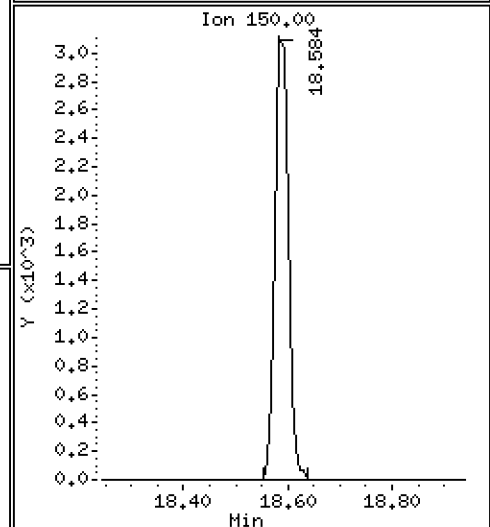
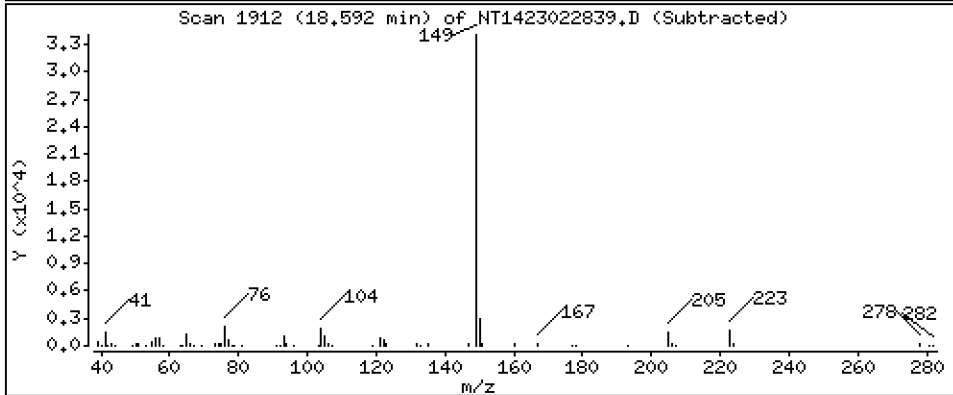
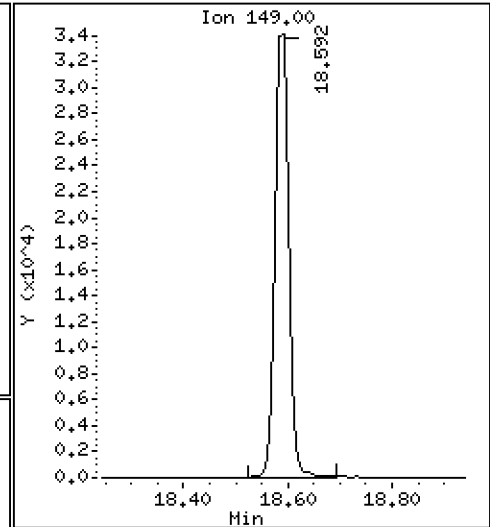
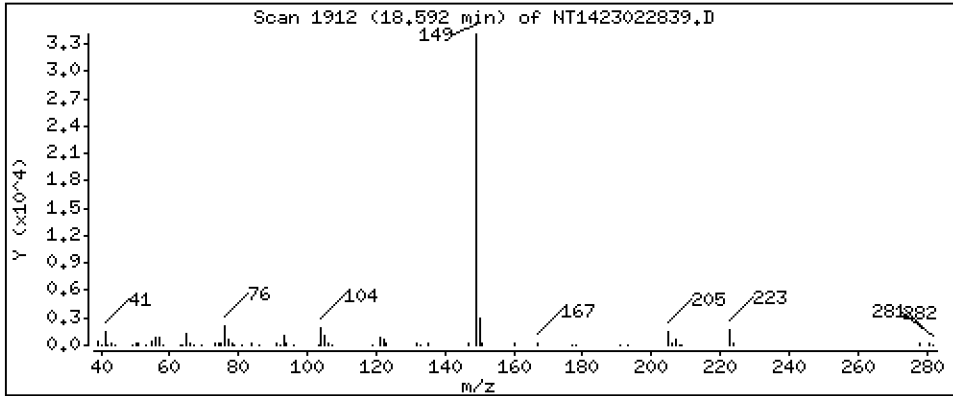
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 0,4957 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

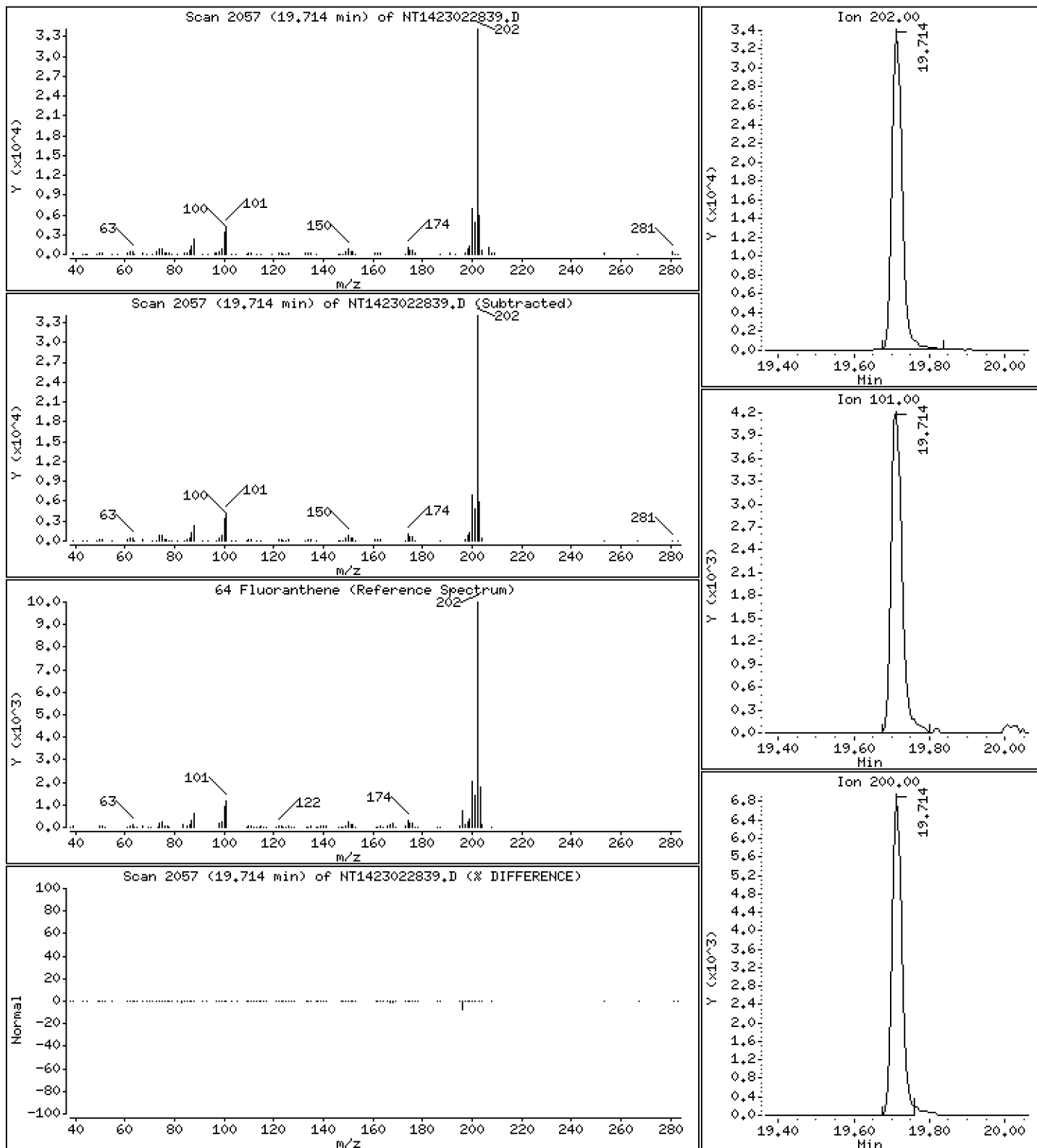
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 0,4678 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

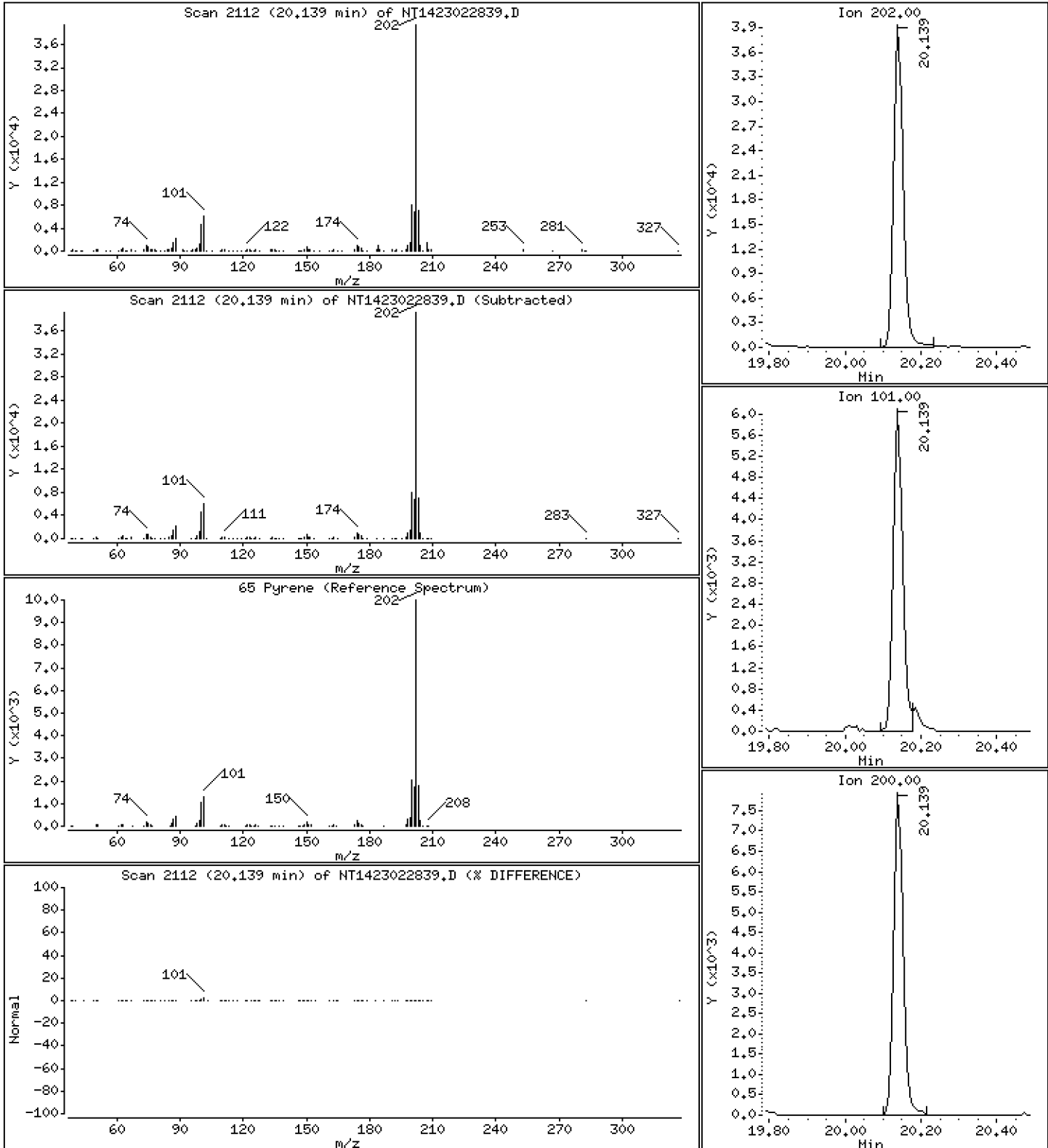
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 0,4742 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

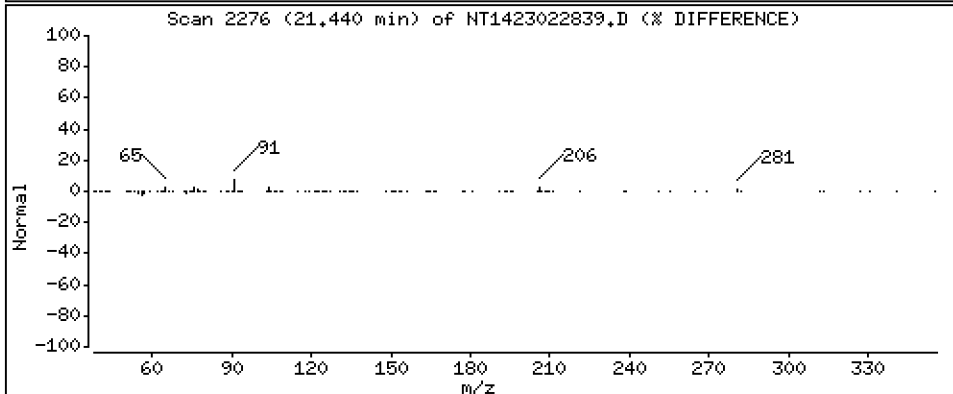
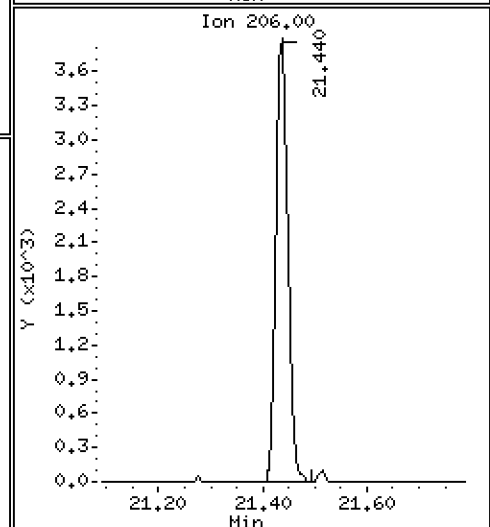
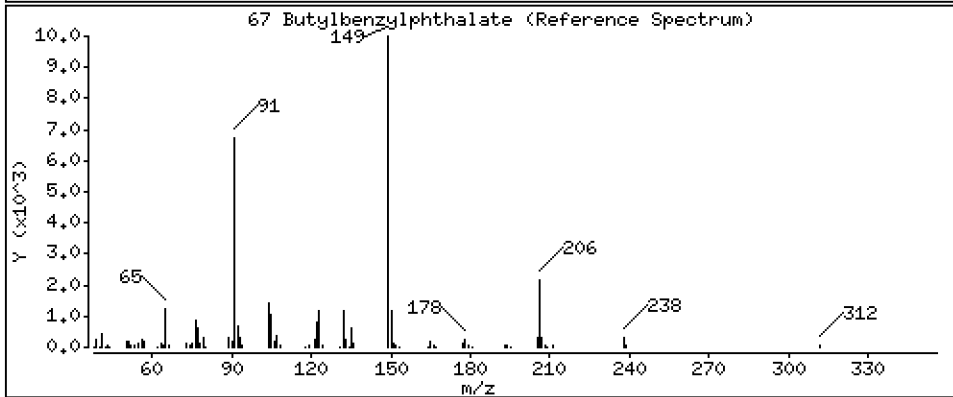
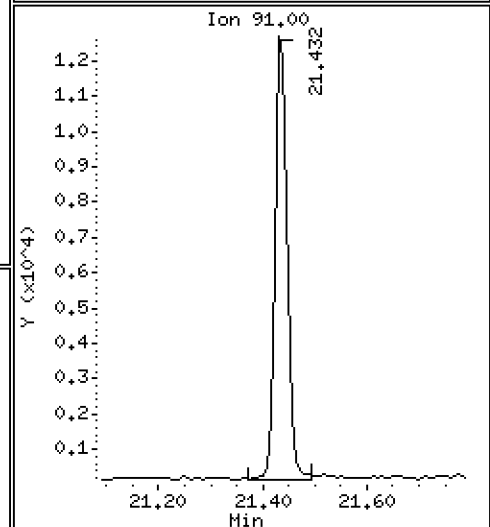
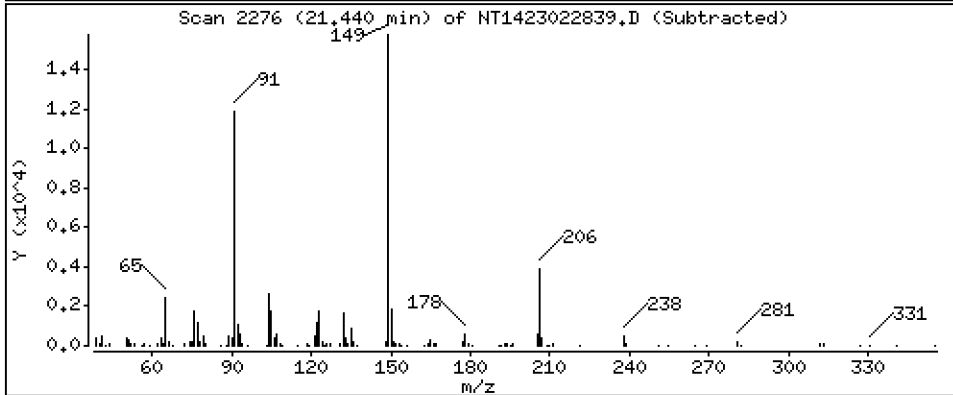
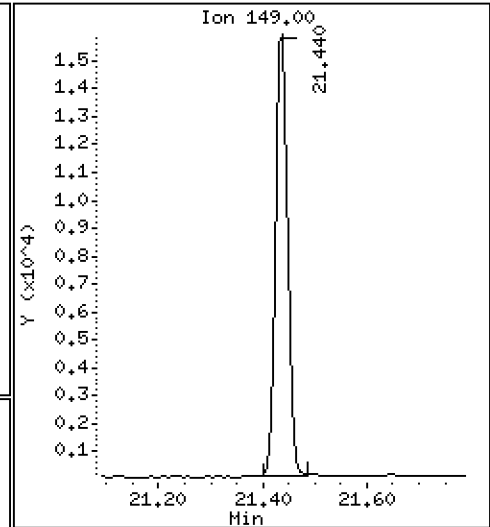
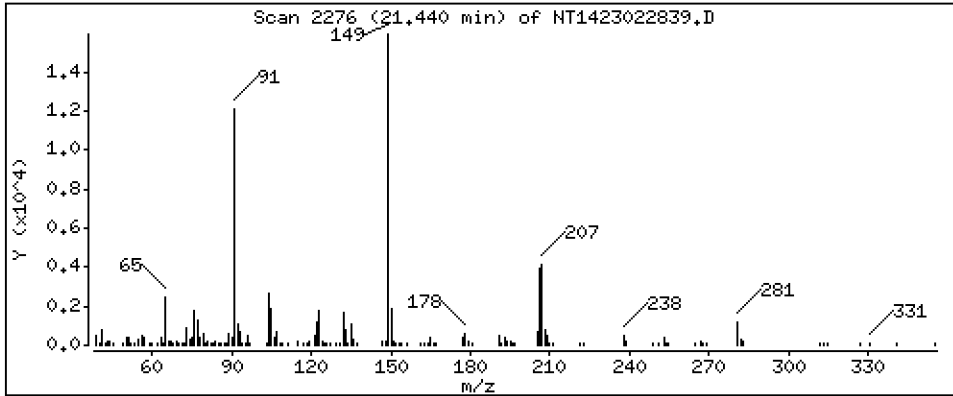
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 0,5034 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

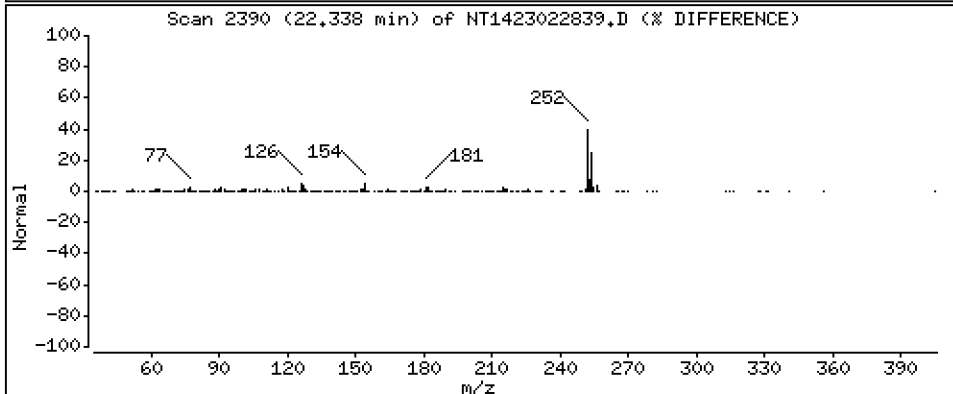
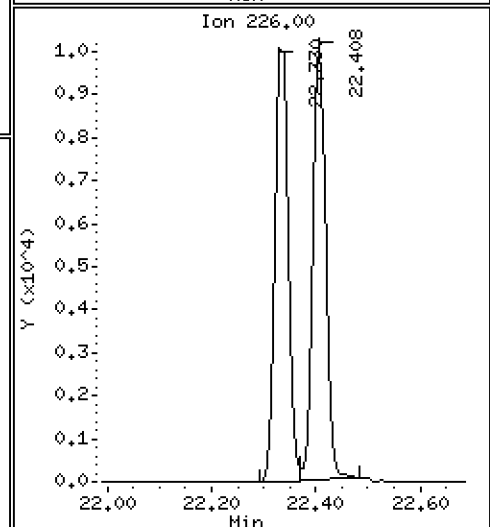
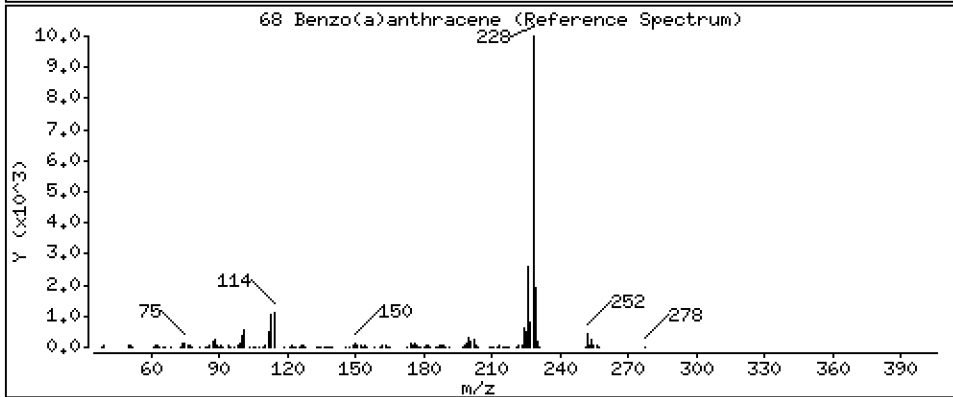
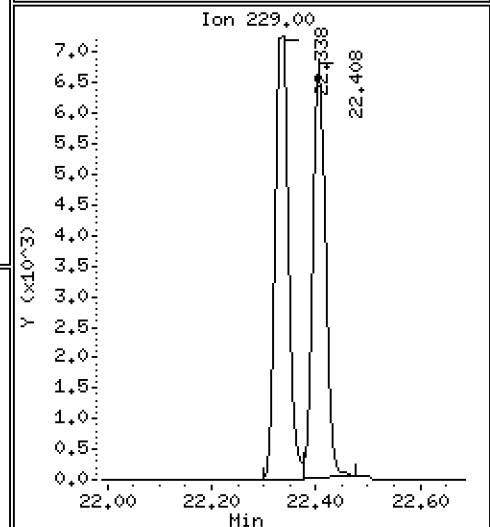
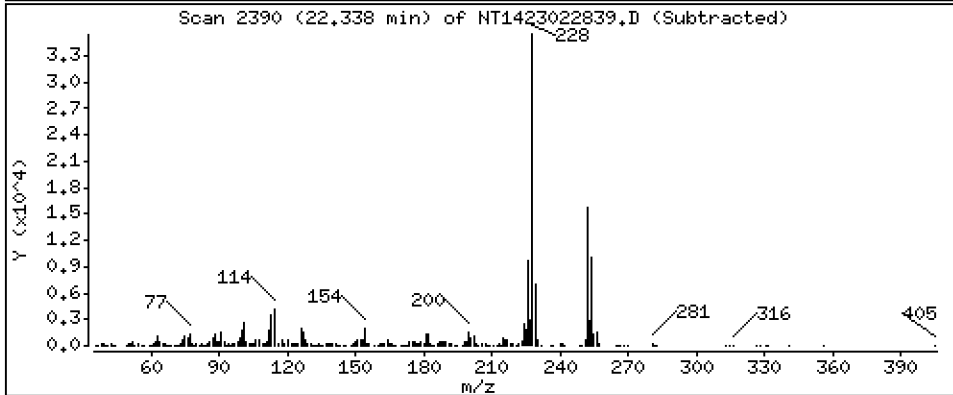
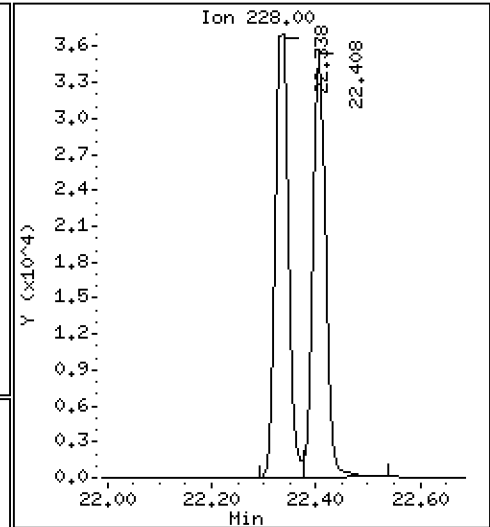
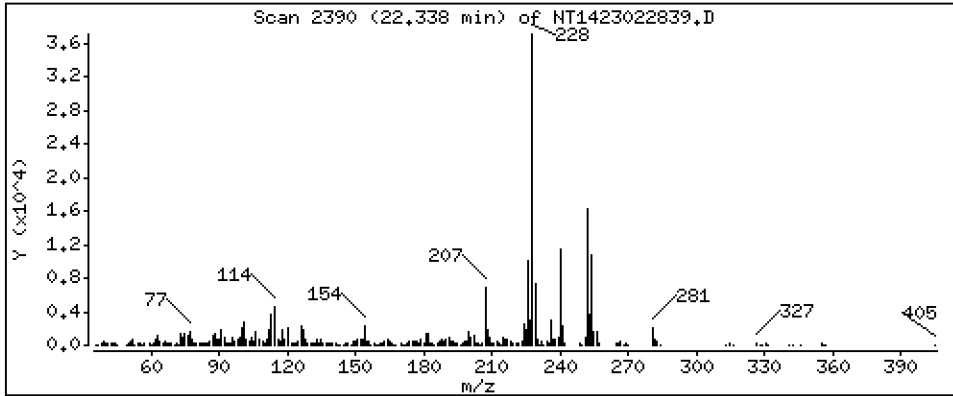
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 0,5467 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

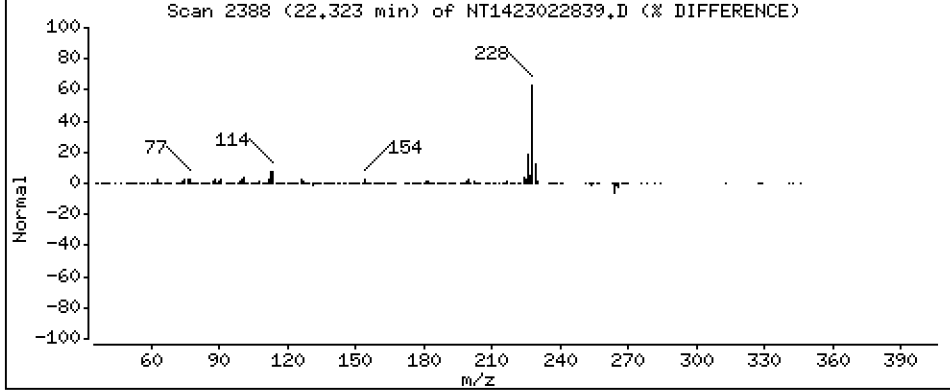
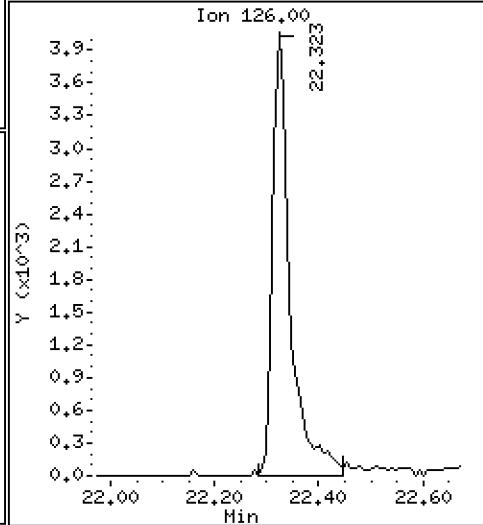
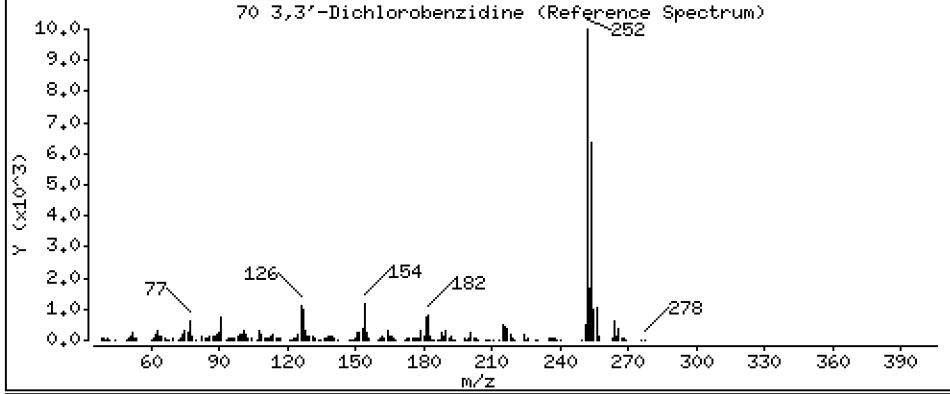
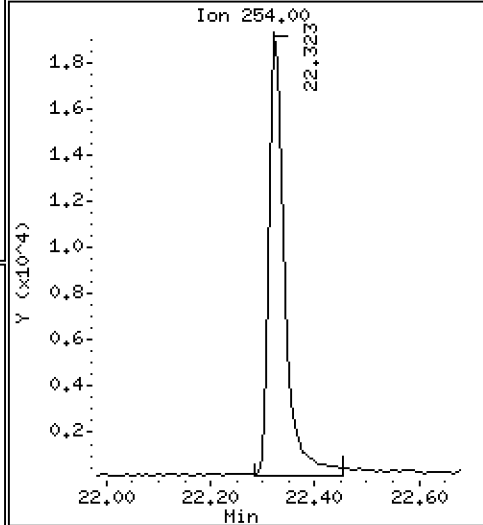
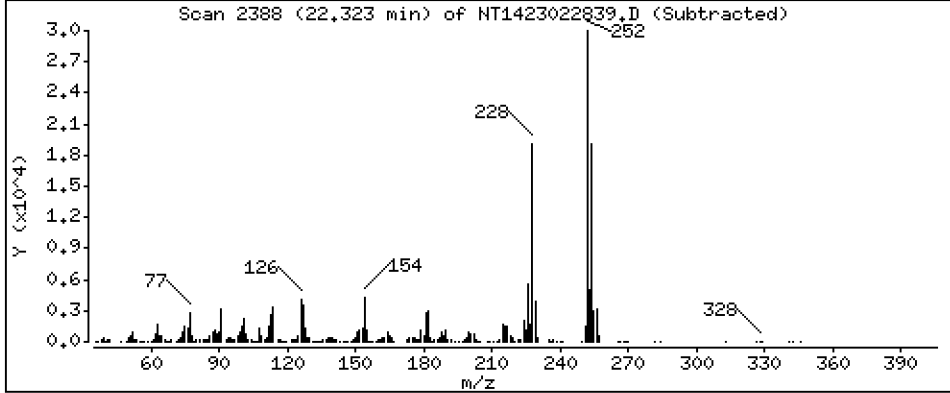
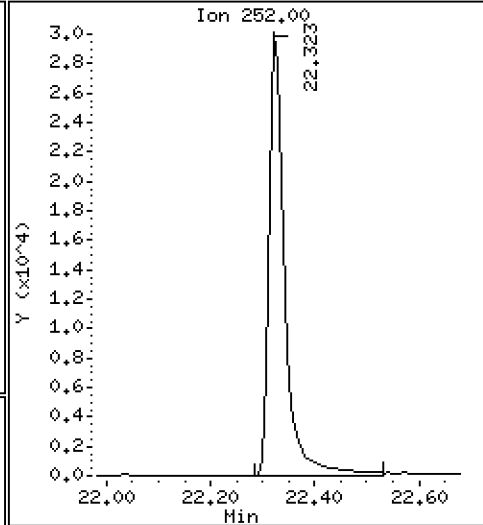
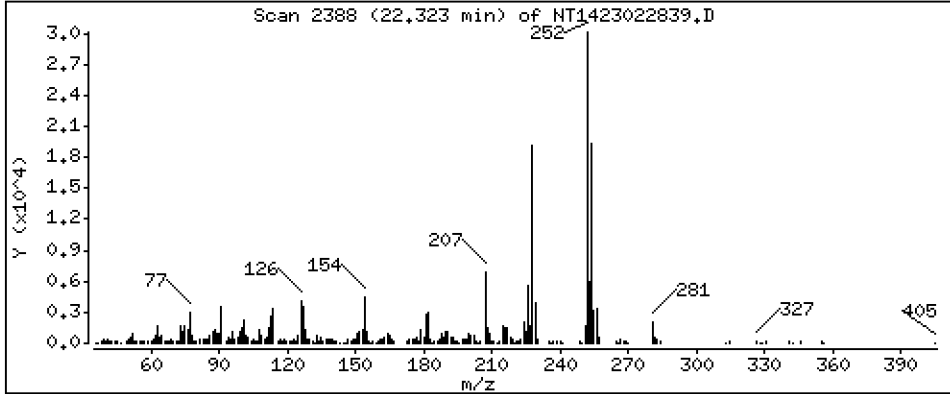
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

70 3,3'-Dichlorobenzidine

Concentration: 1,896 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

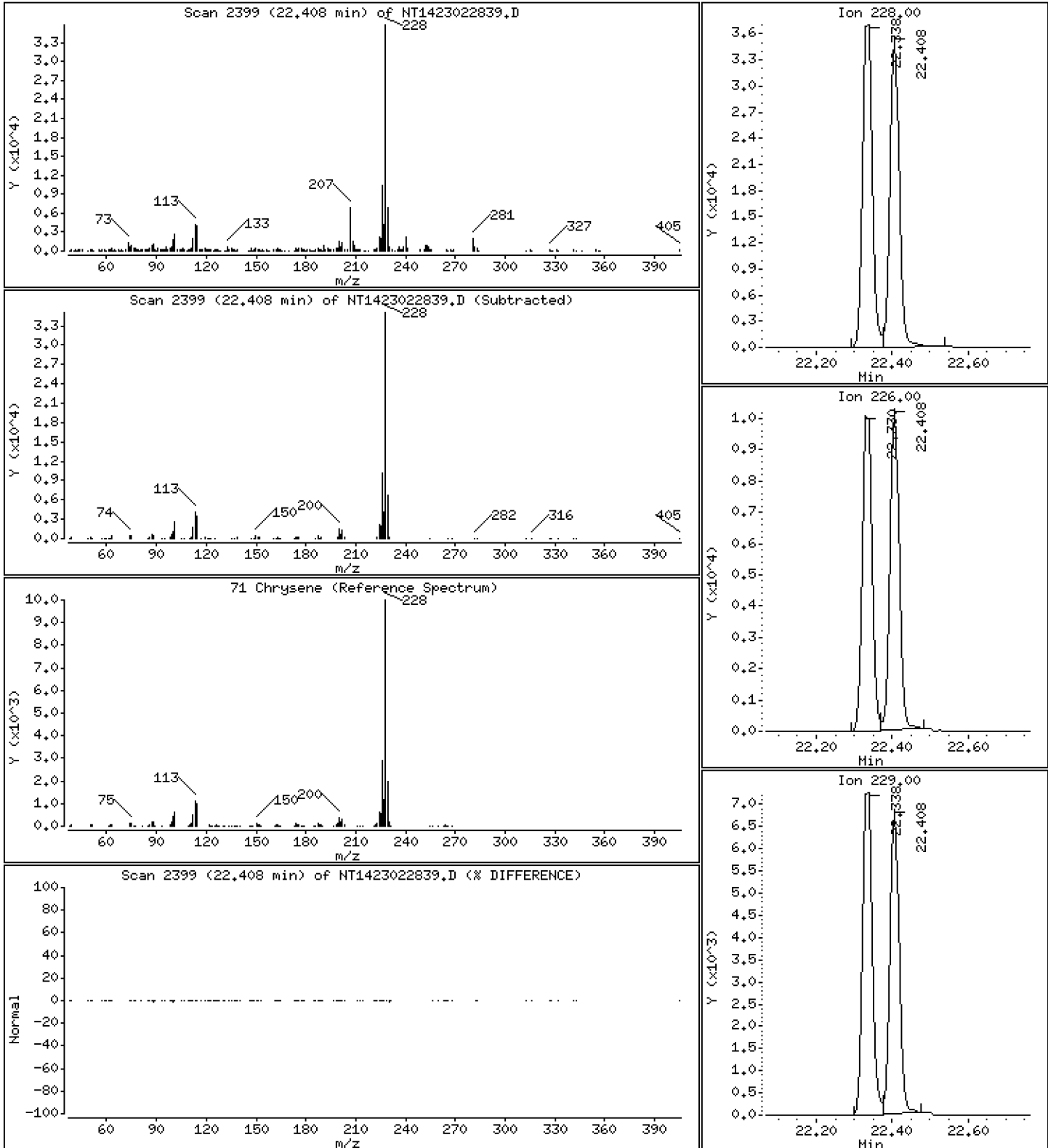
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 0,5253 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

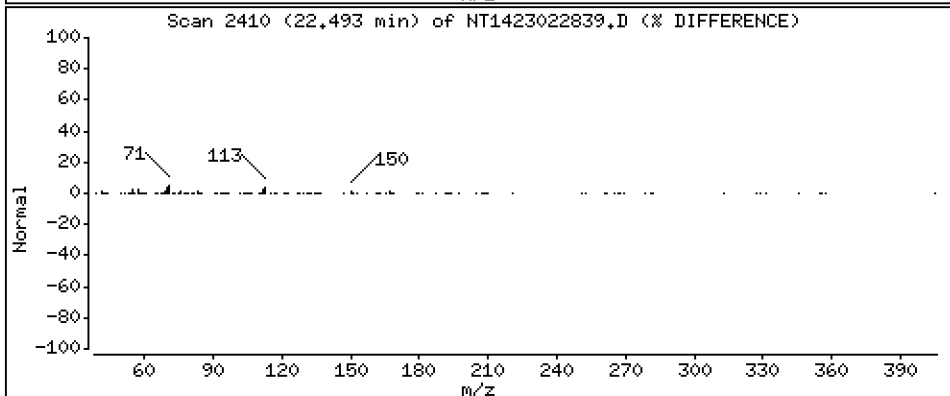
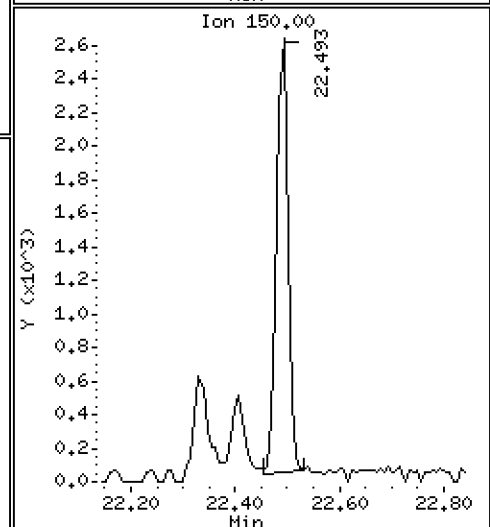
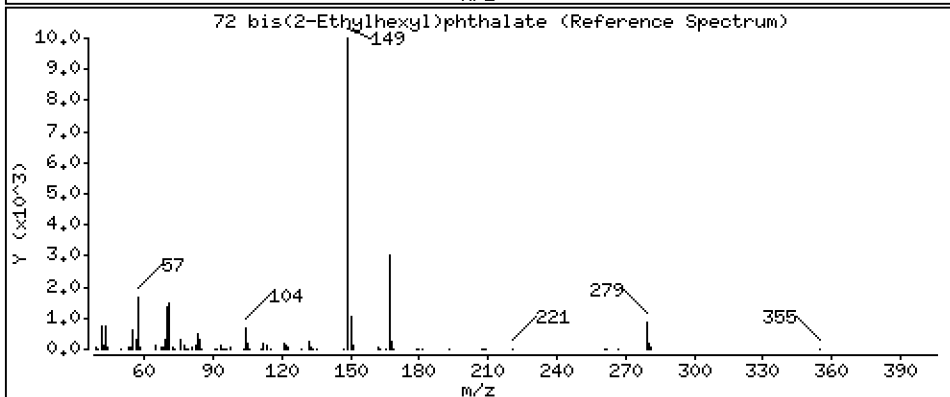
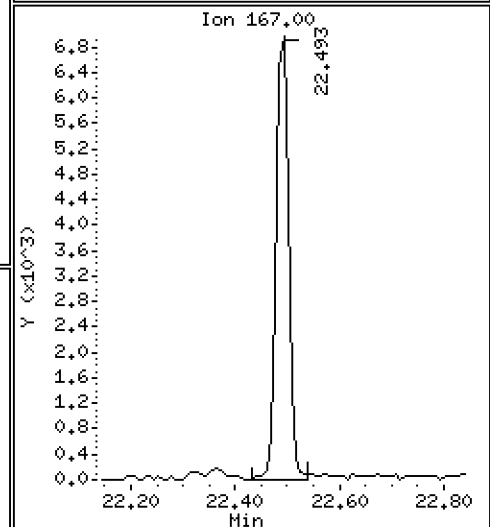
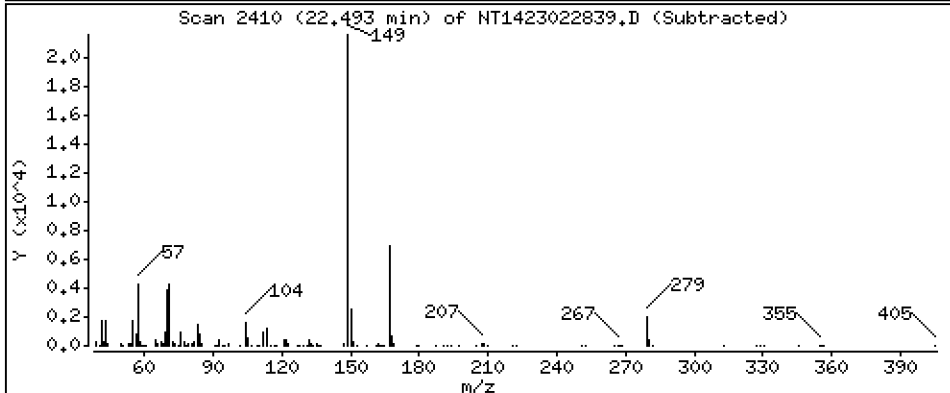
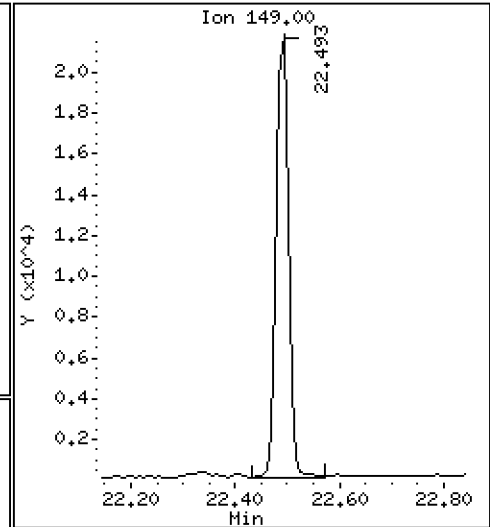
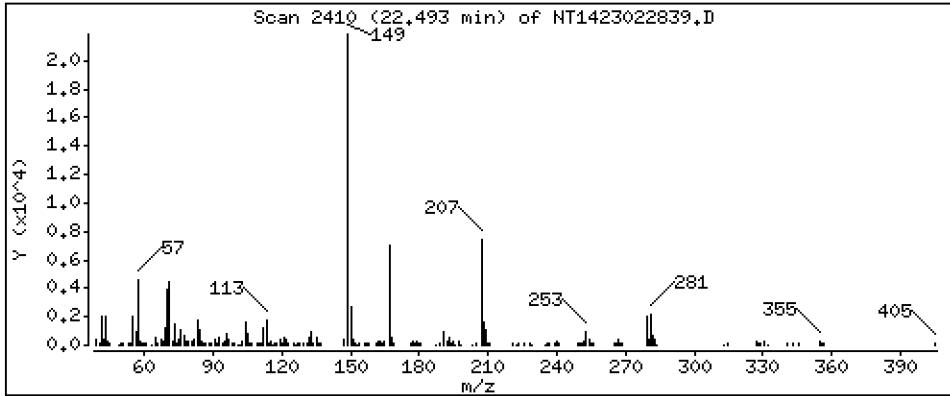
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 0,4583 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

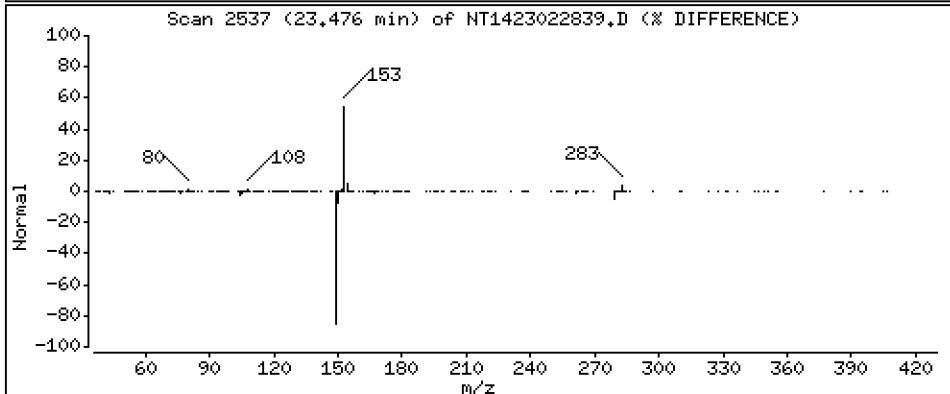
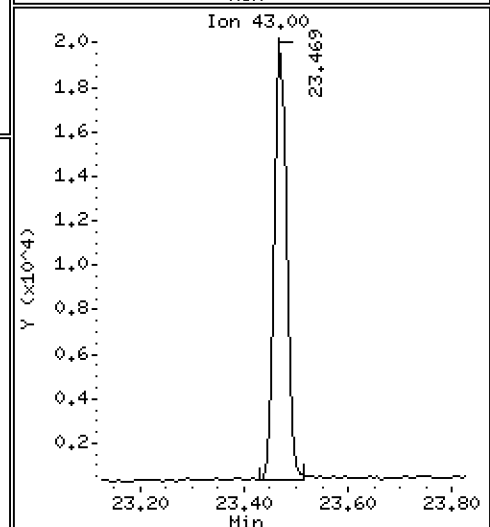
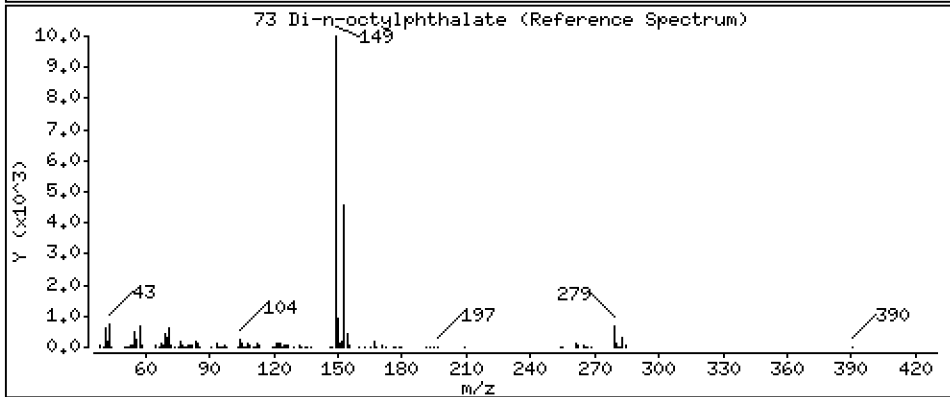
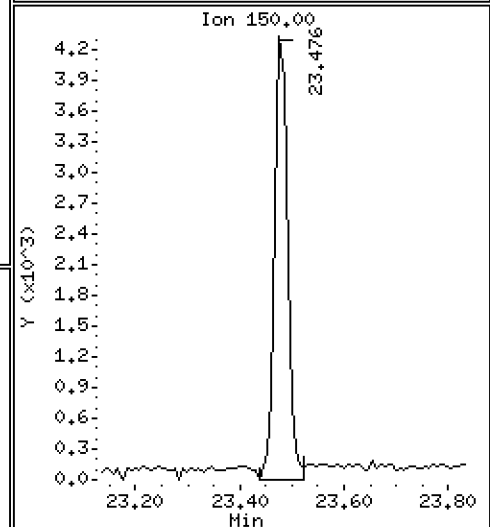
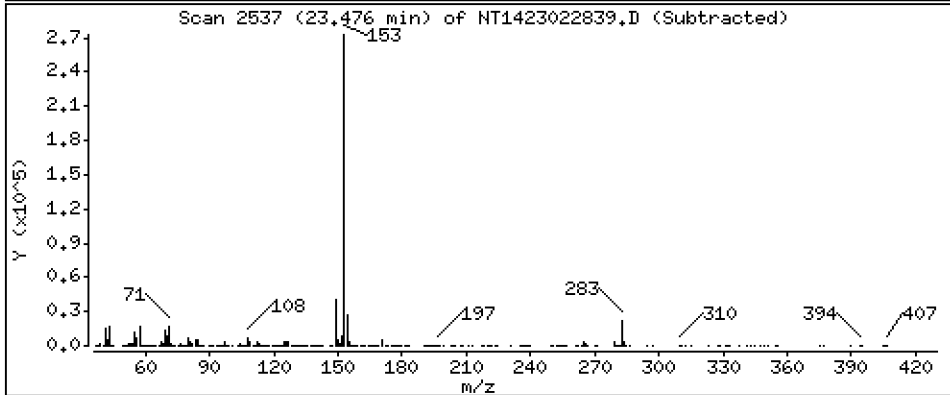
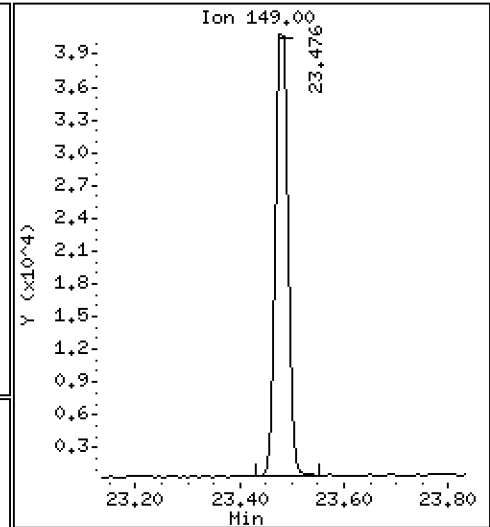
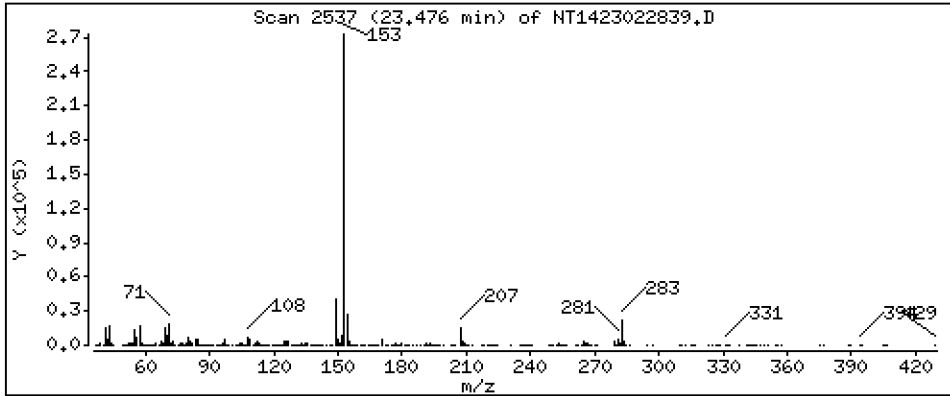
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 0,5038 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

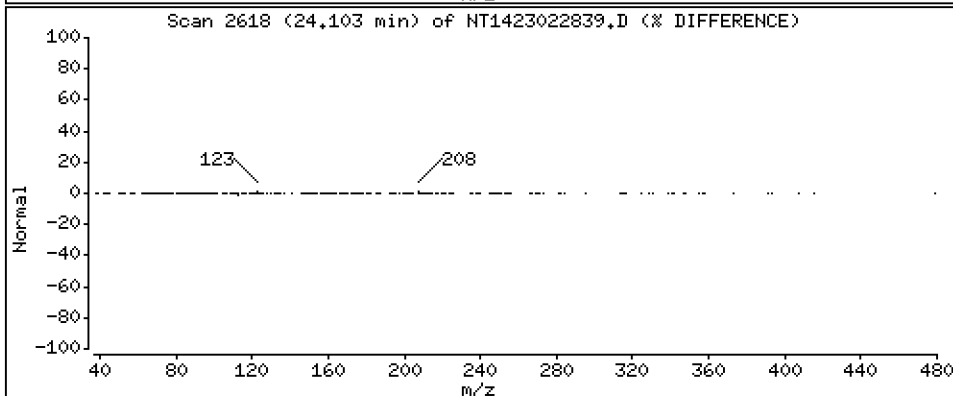
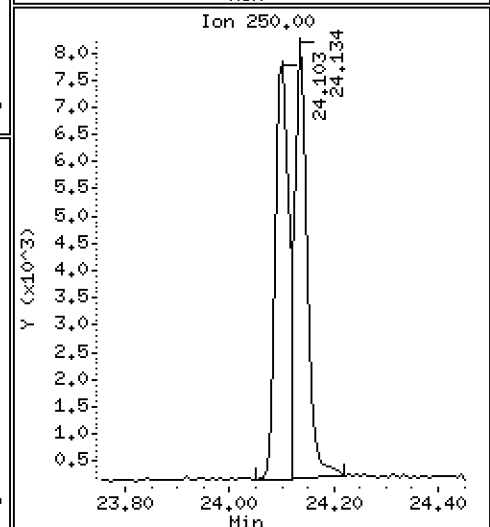
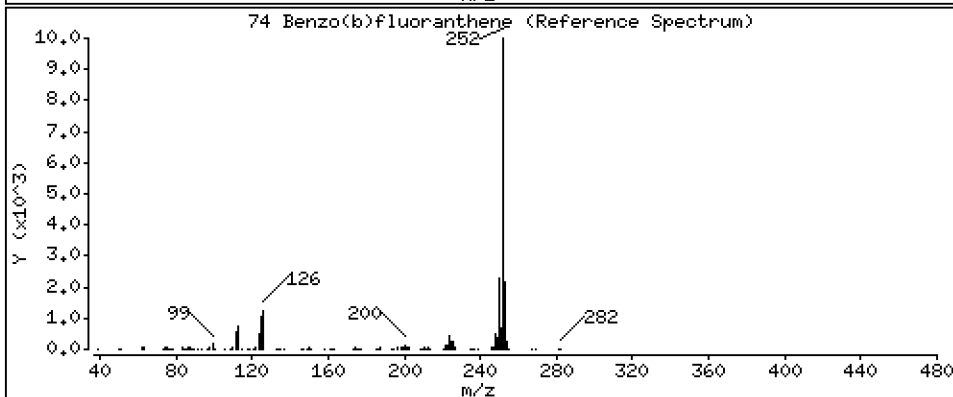
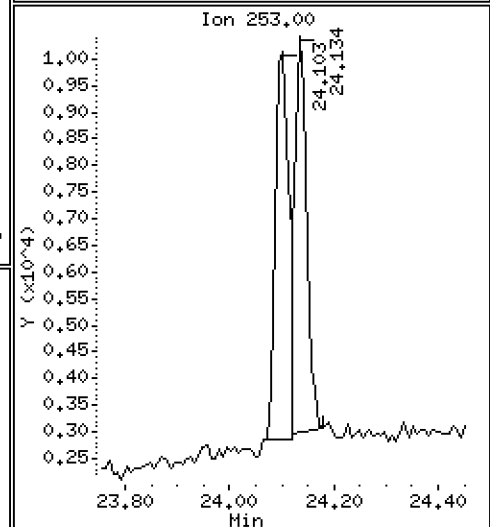
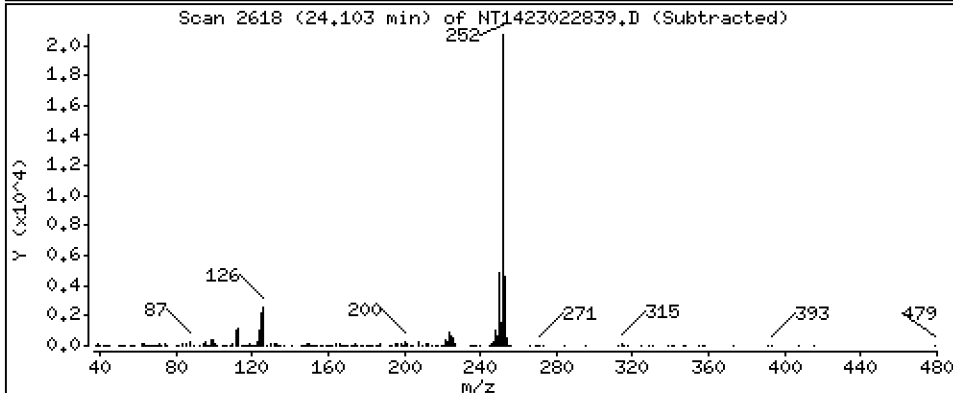
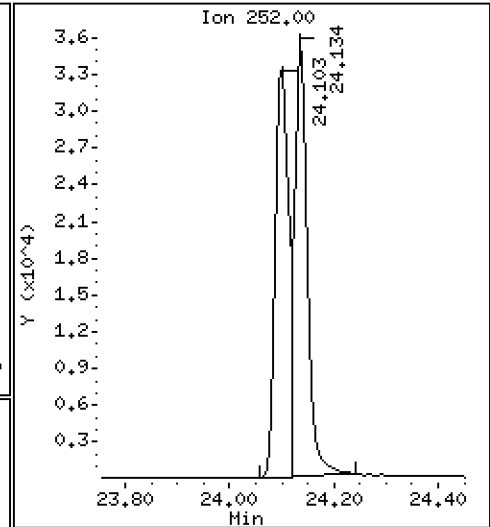
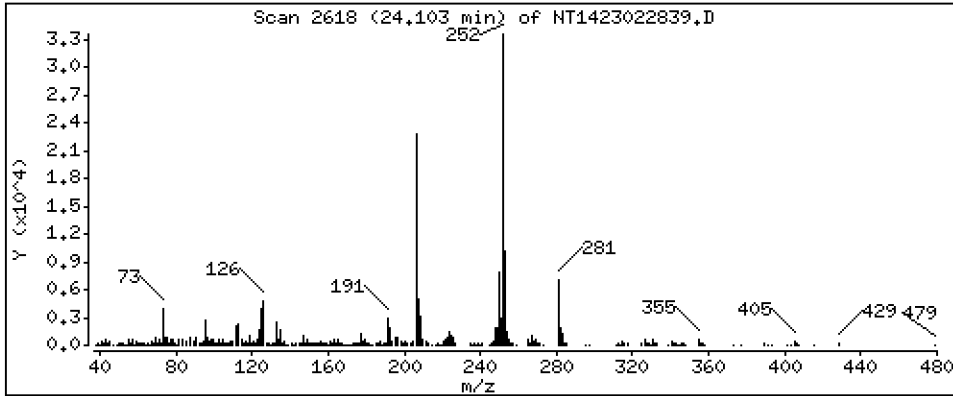
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 0,5748 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

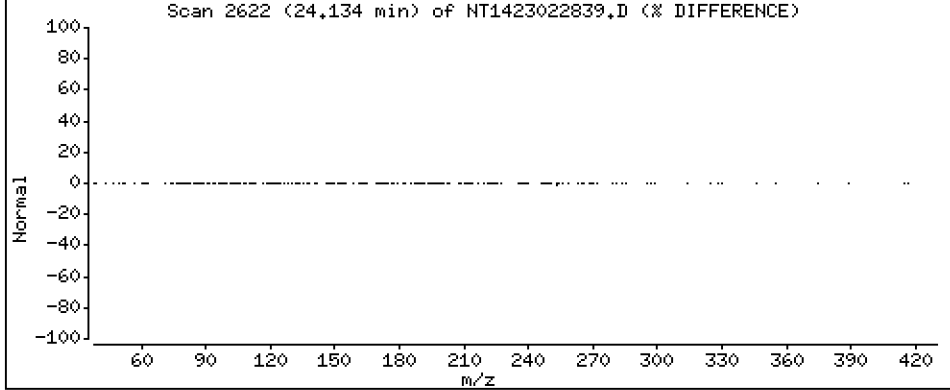
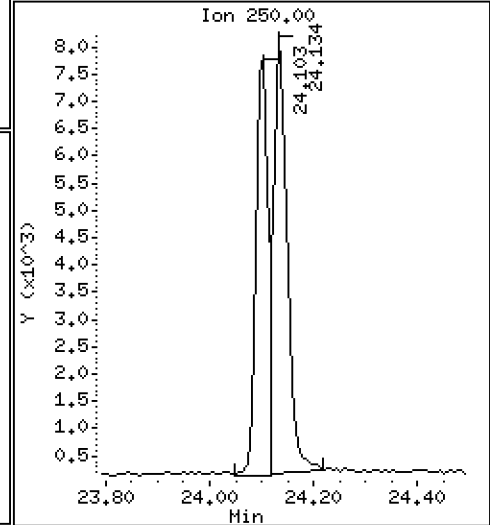
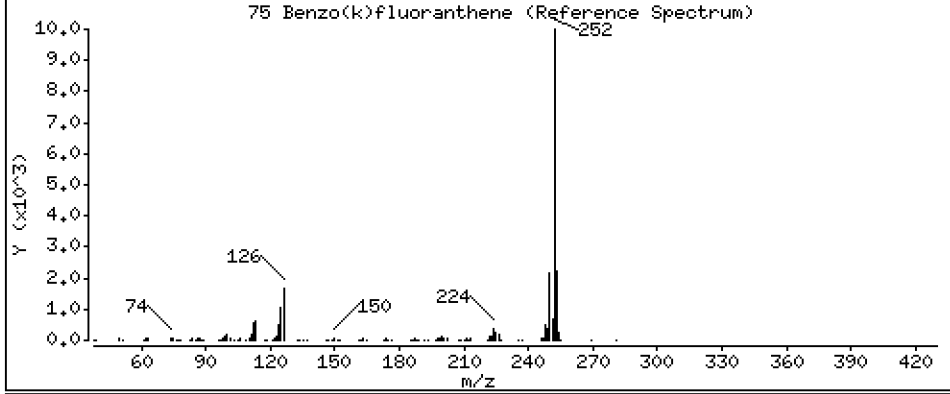
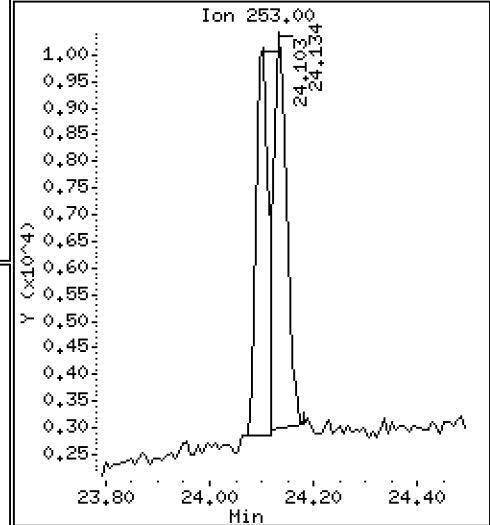
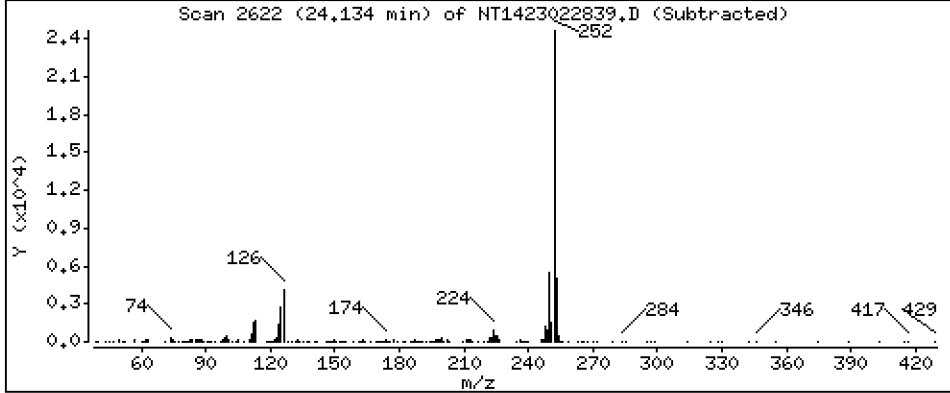
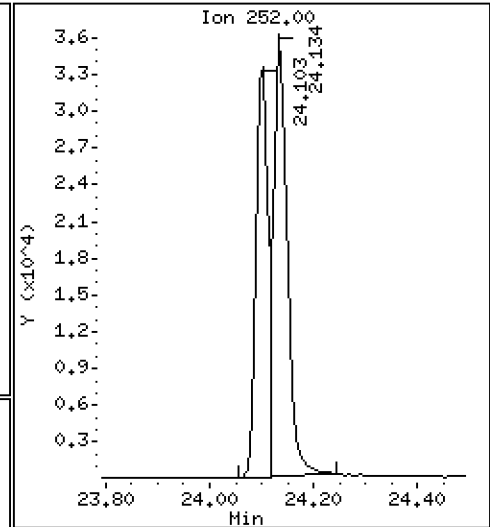
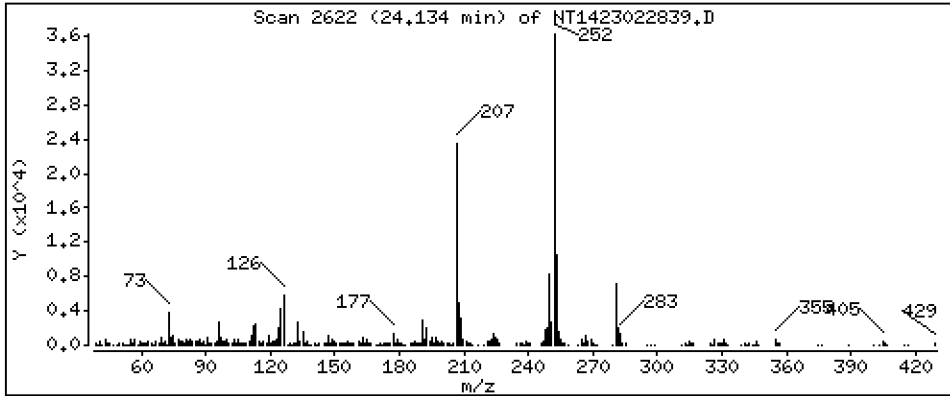
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 0,5863 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

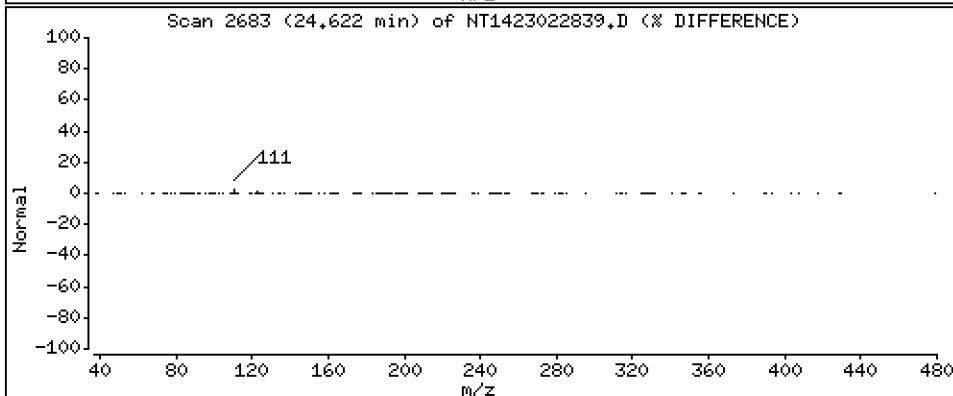
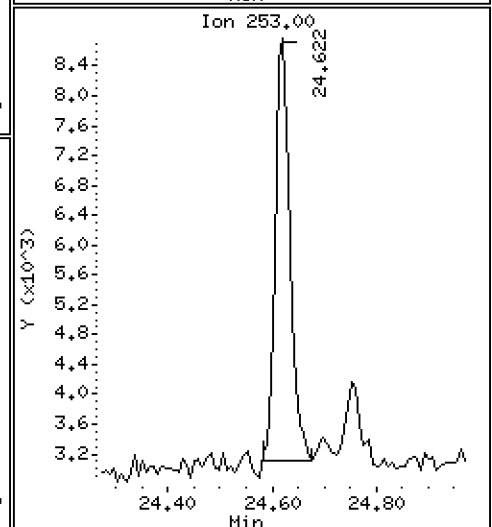
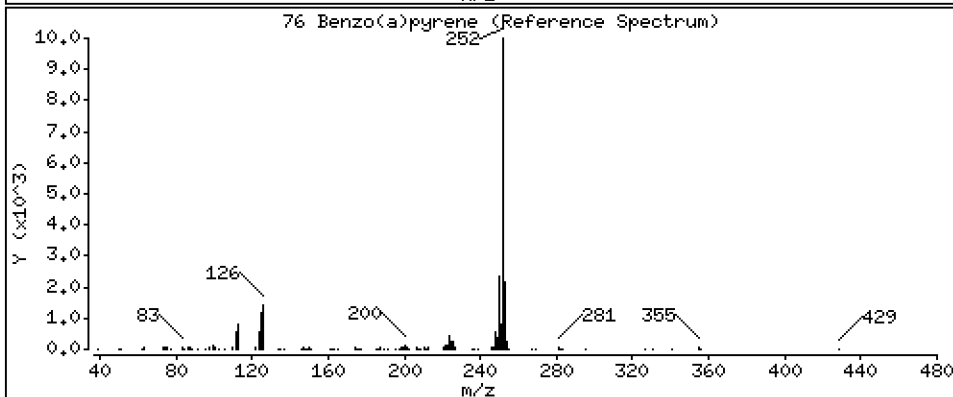
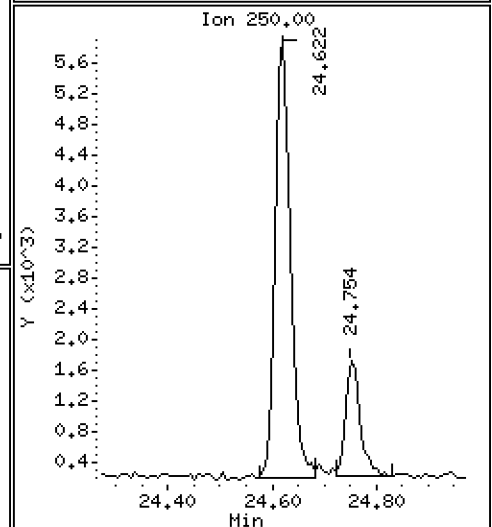
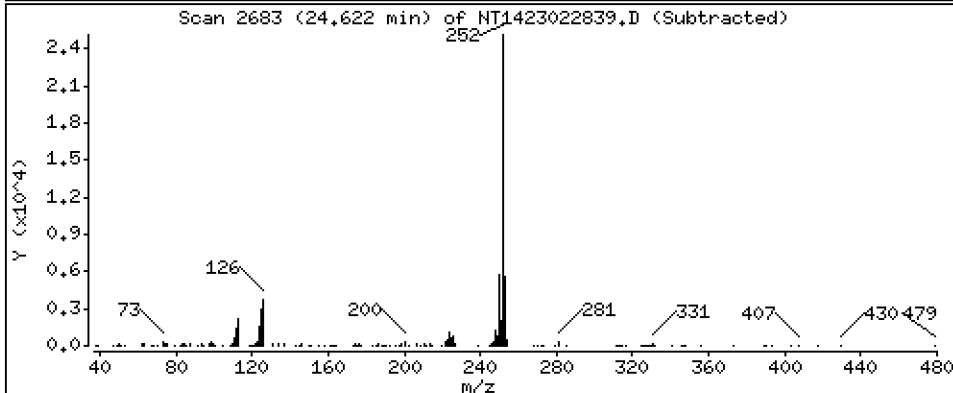
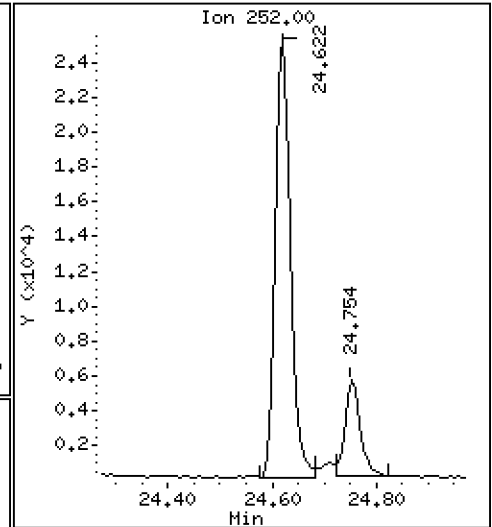
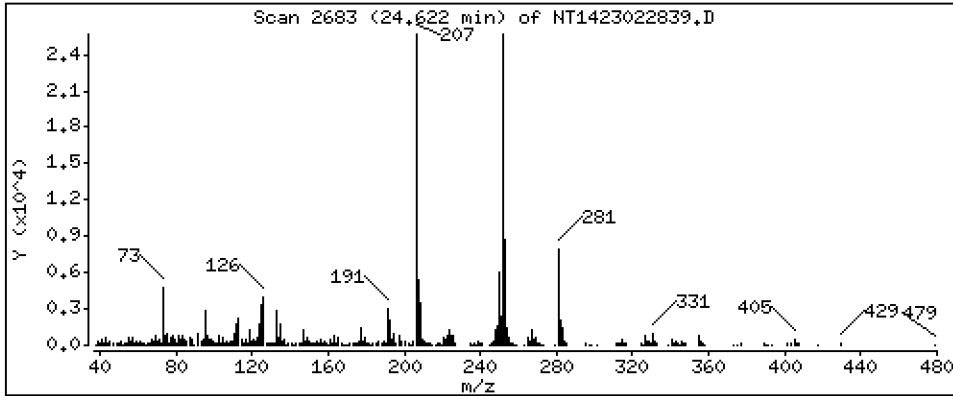
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 0,5437 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

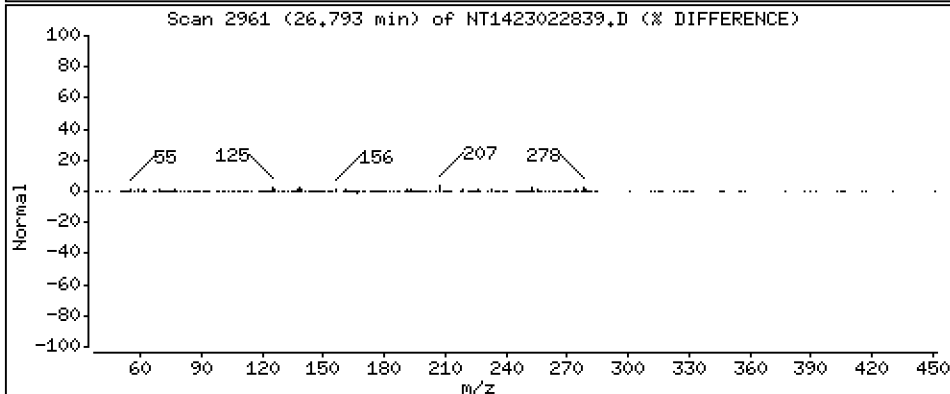
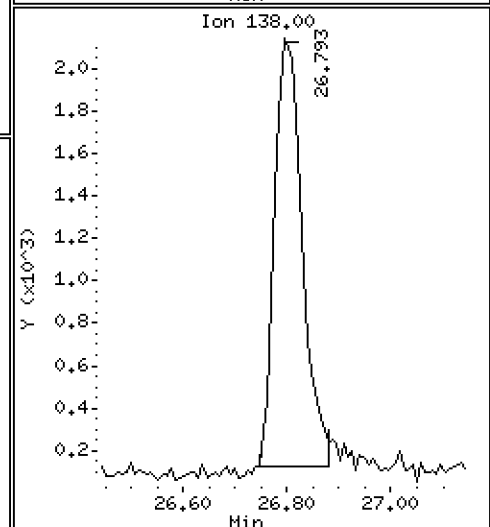
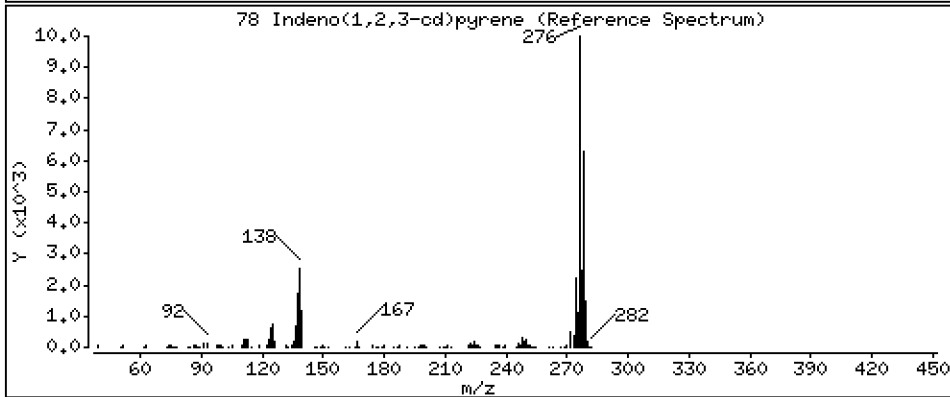
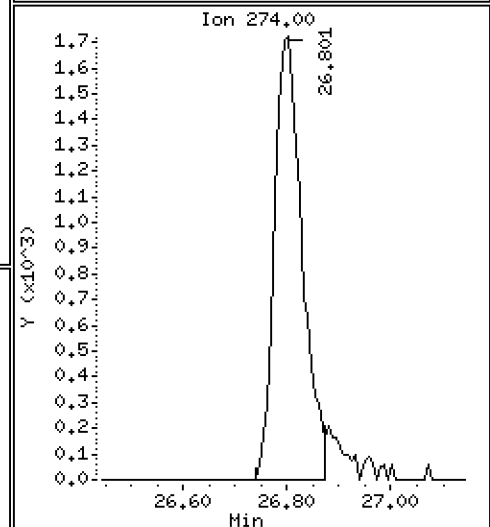
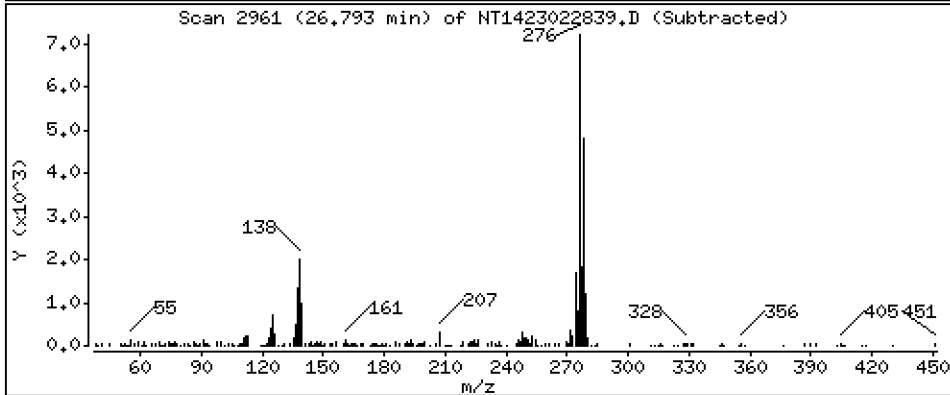
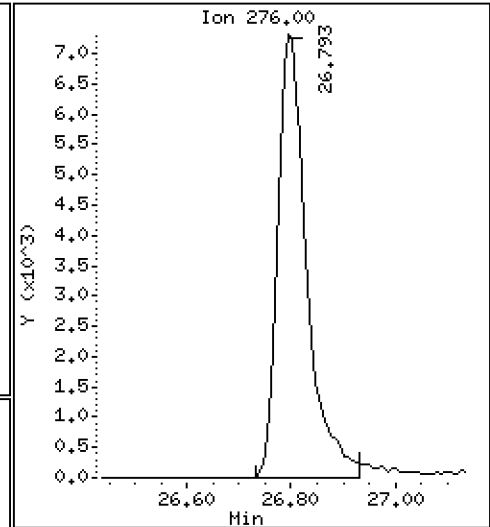
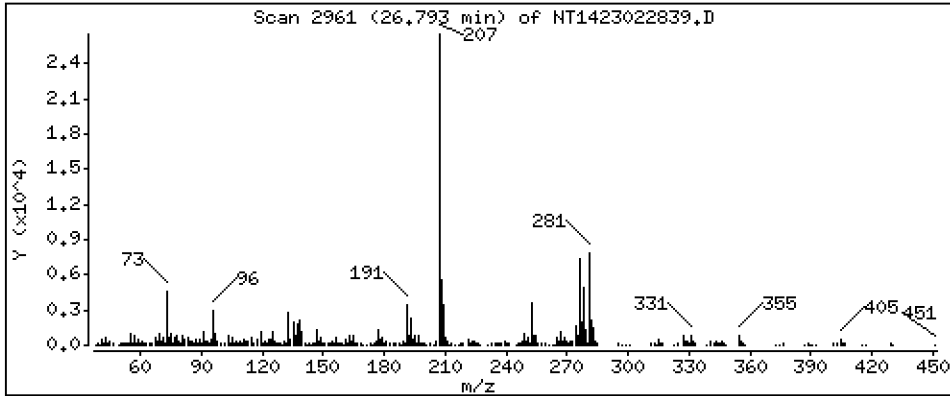
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 0,2520 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

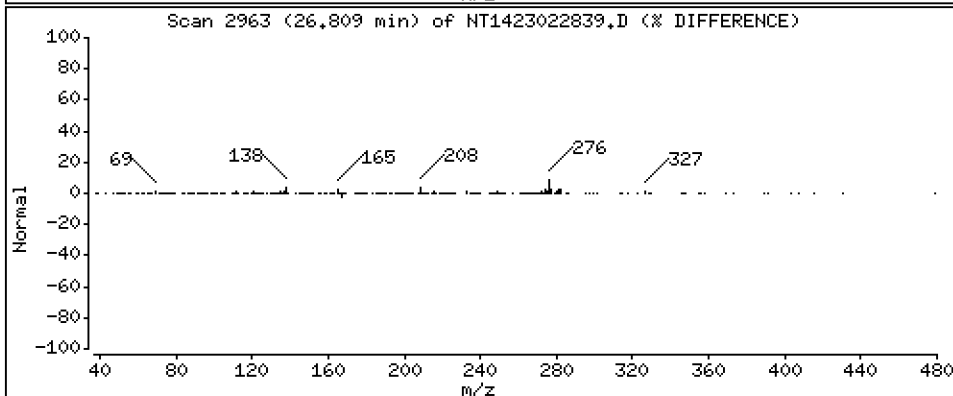
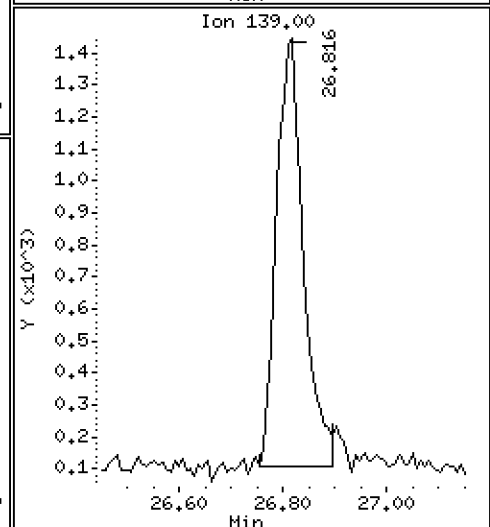
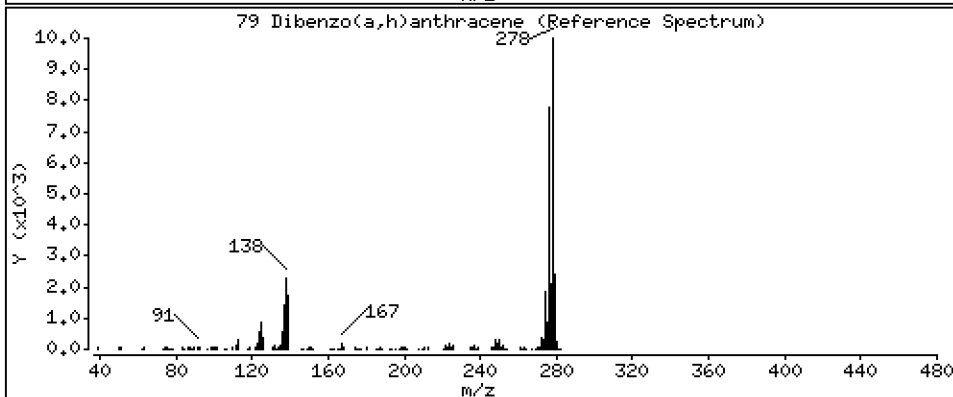
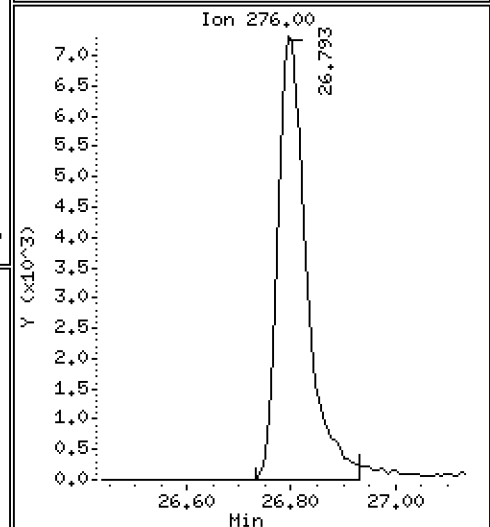
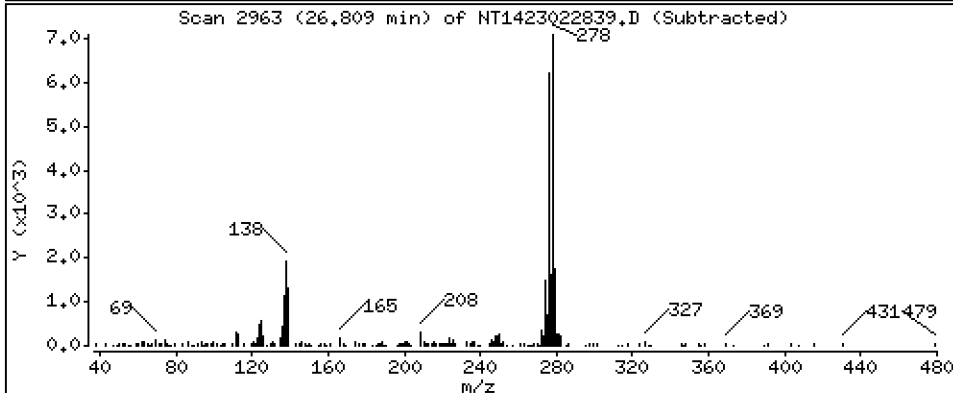
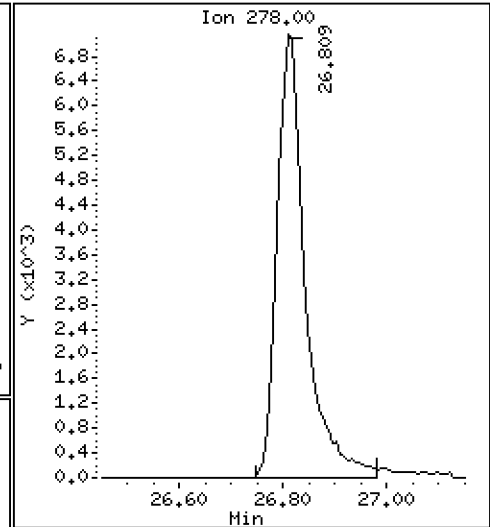
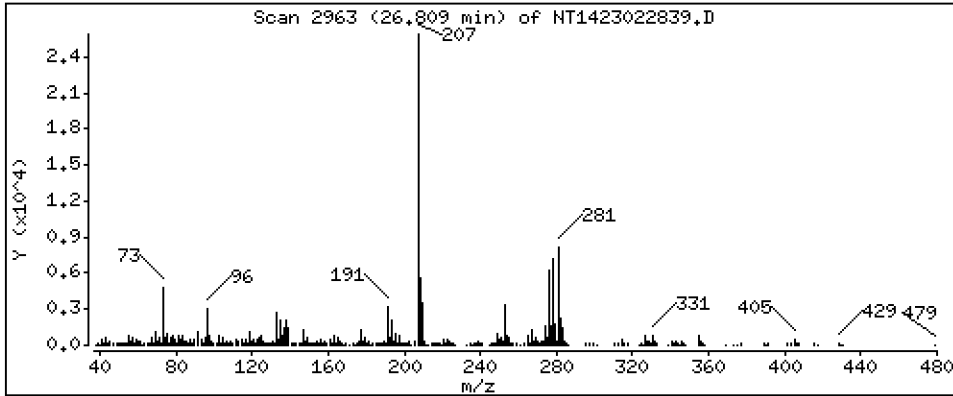
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 0,2813 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

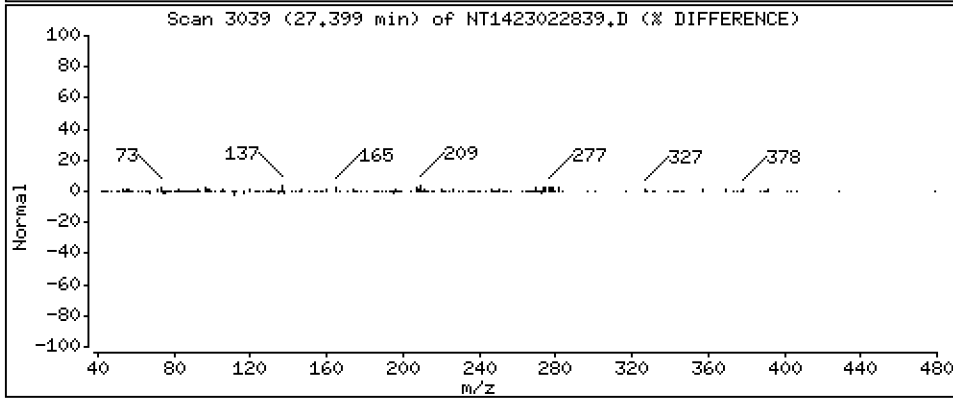
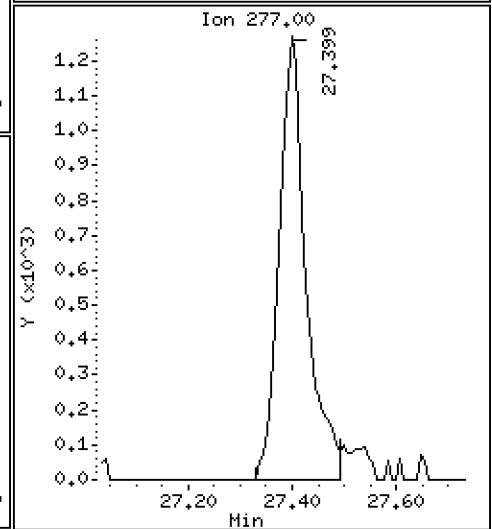
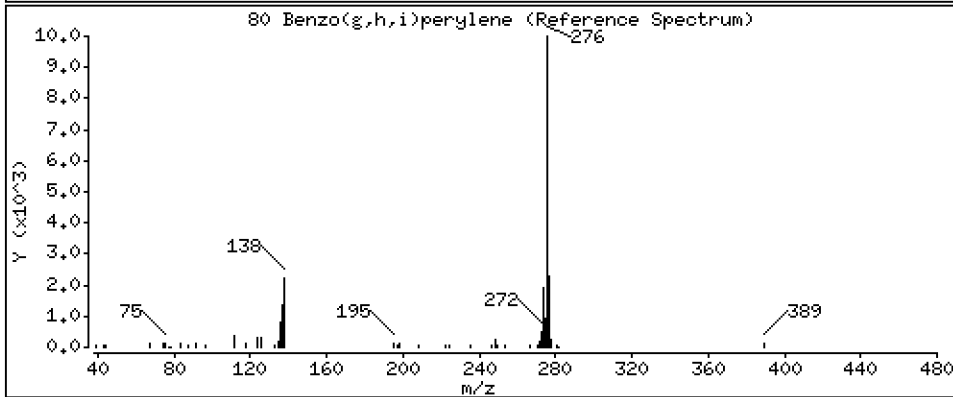
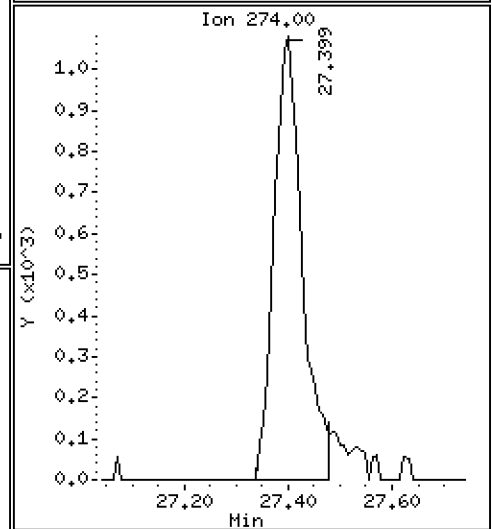
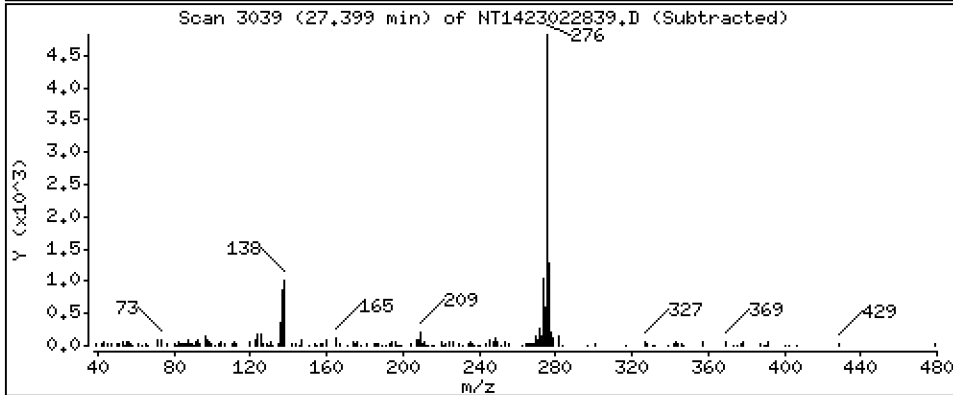
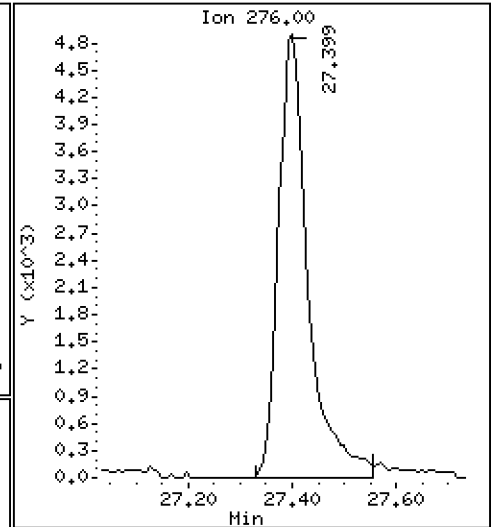
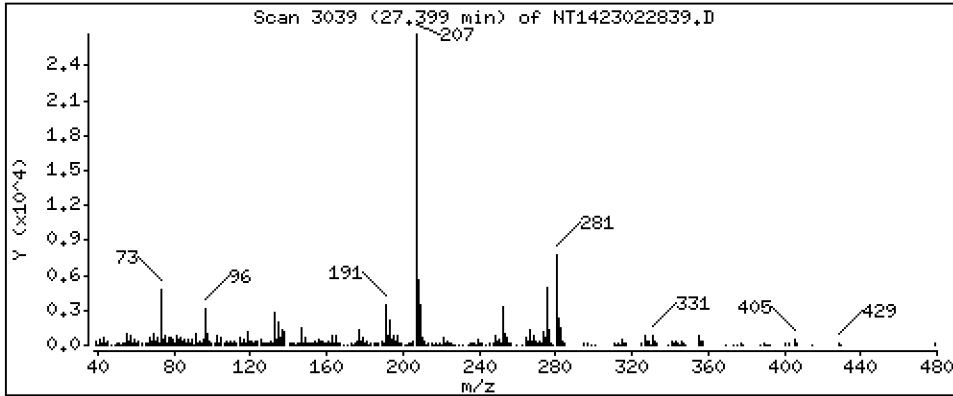
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 0,1986 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

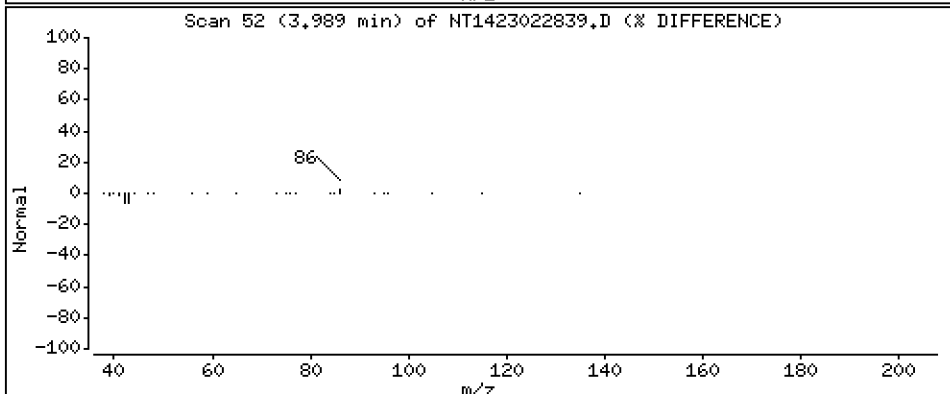
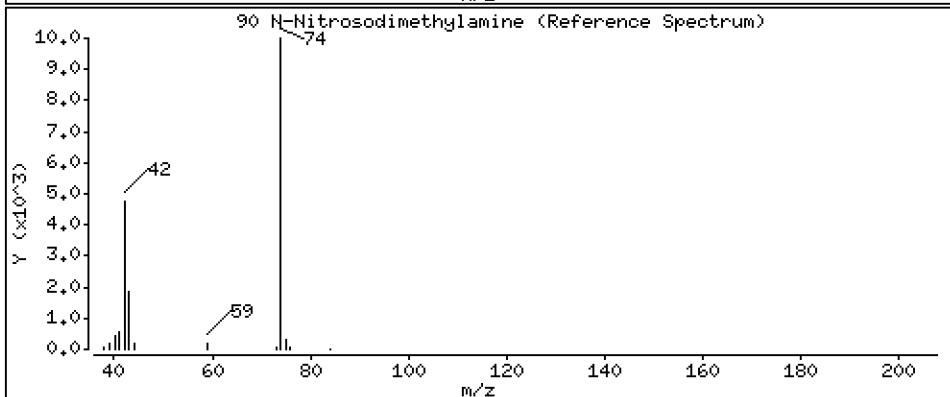
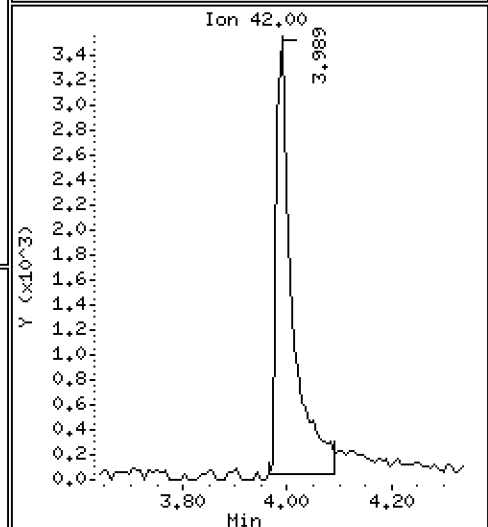
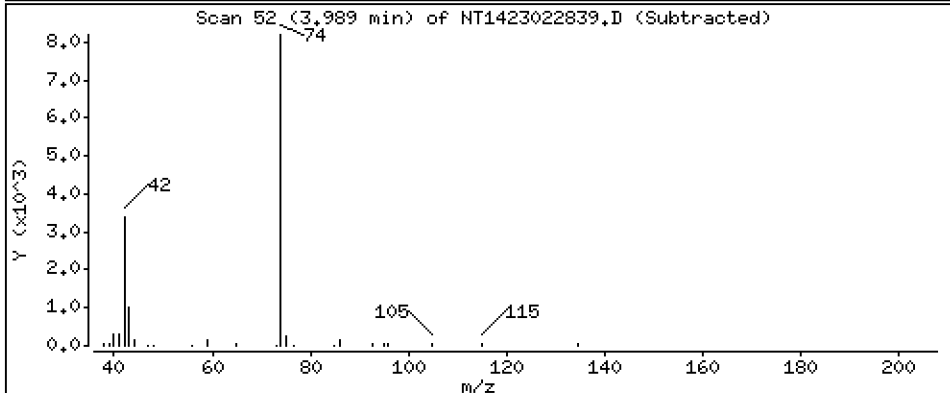
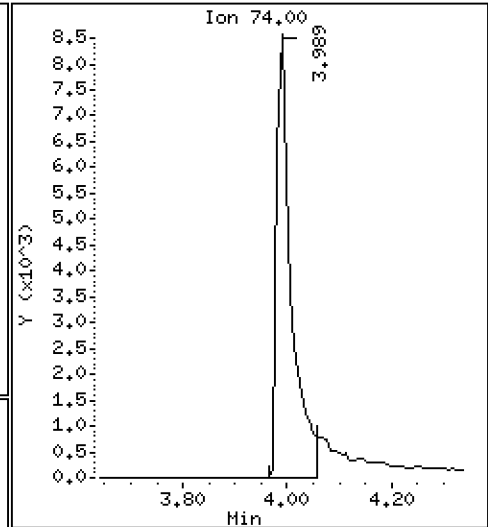
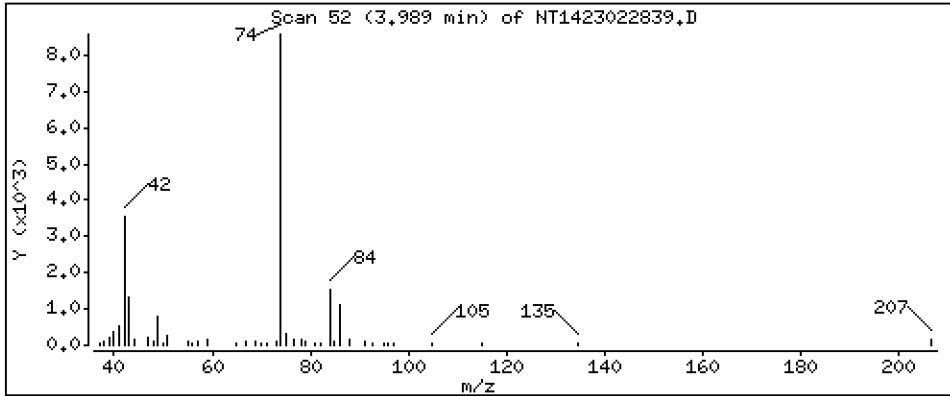
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

90 N-Nitrosodimethylamine

Concentration: 0,6900 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

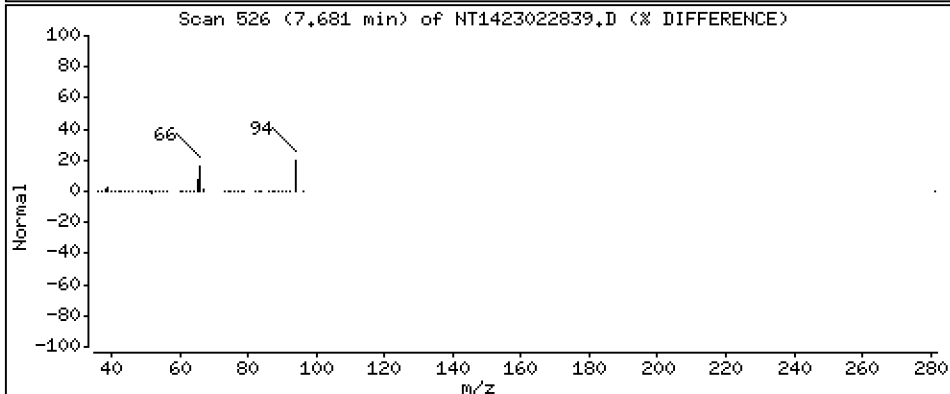
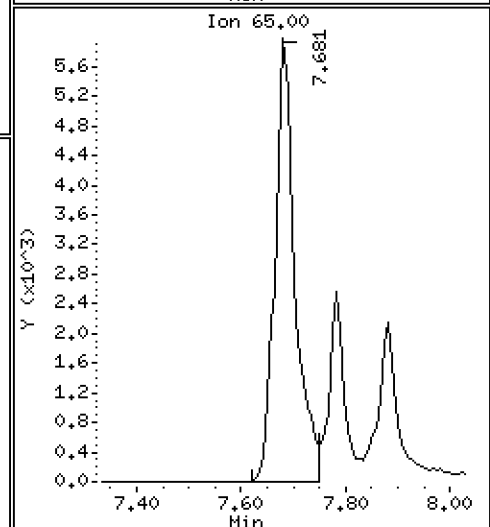
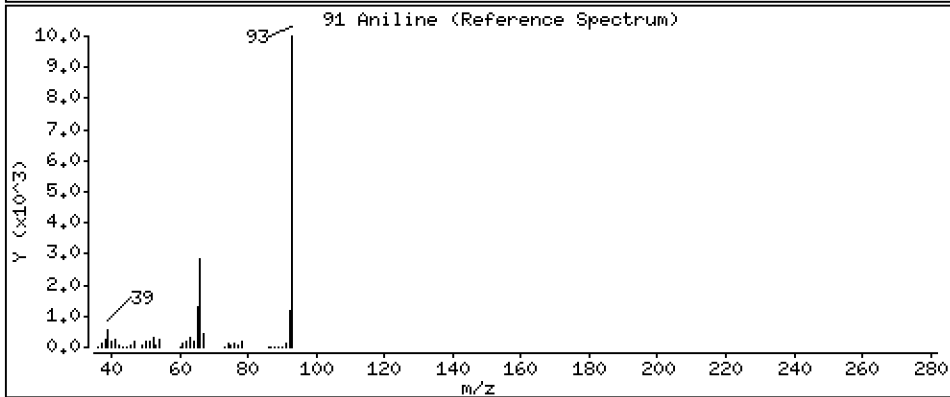
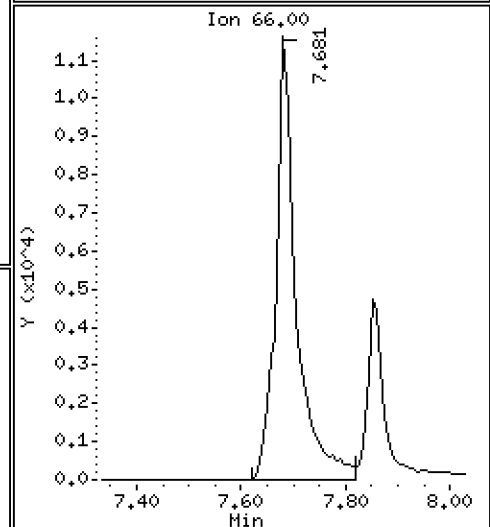
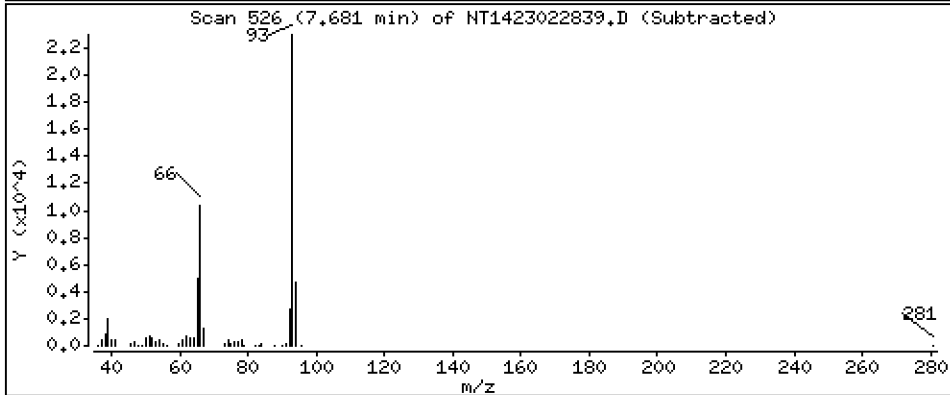
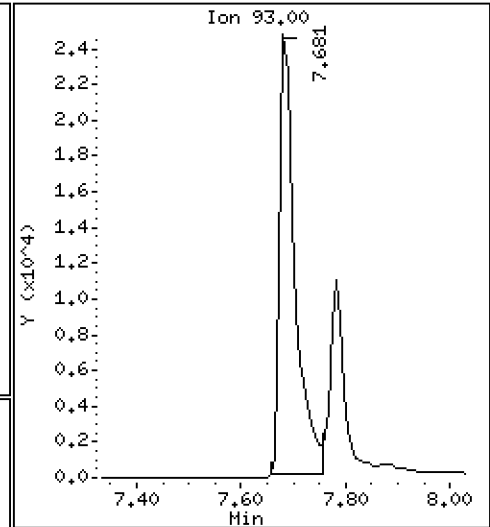
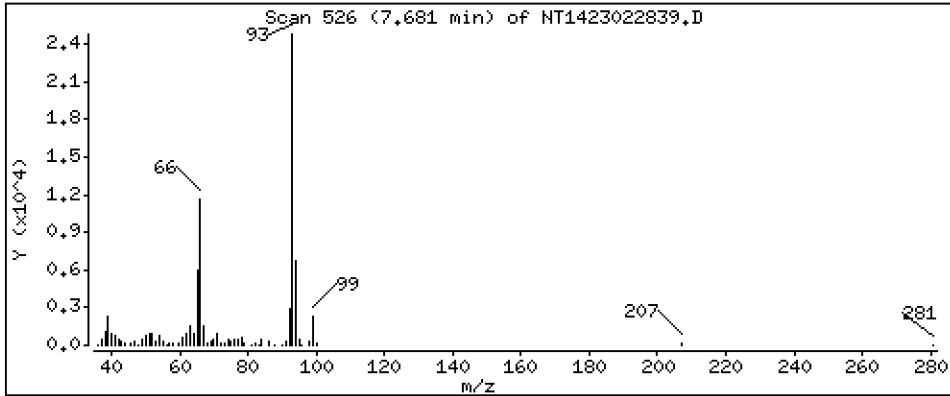
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

91 Aniline

Concentration: 0,9125 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

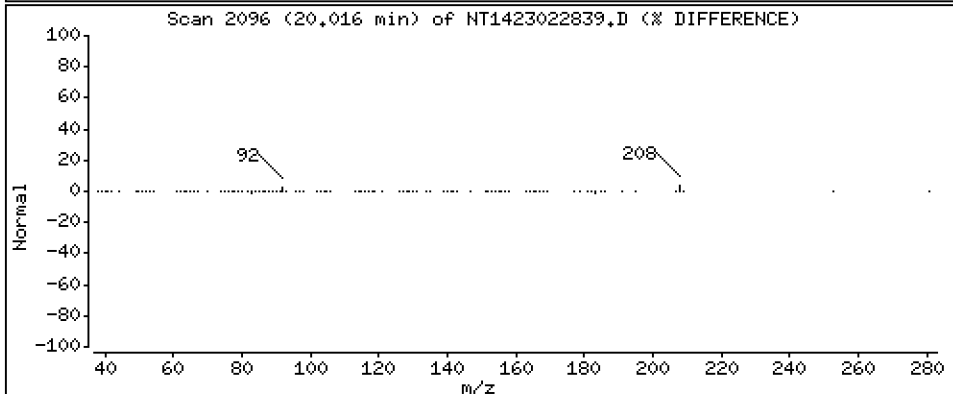
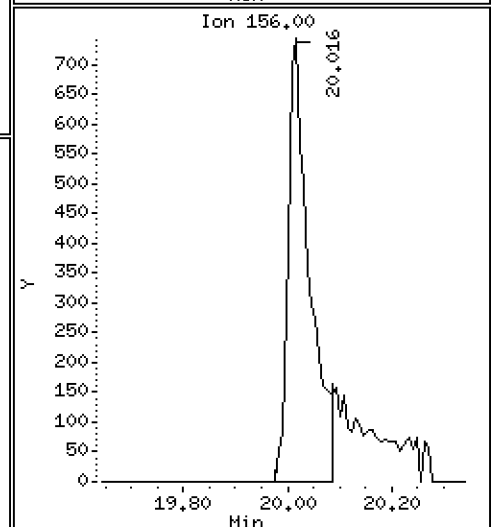
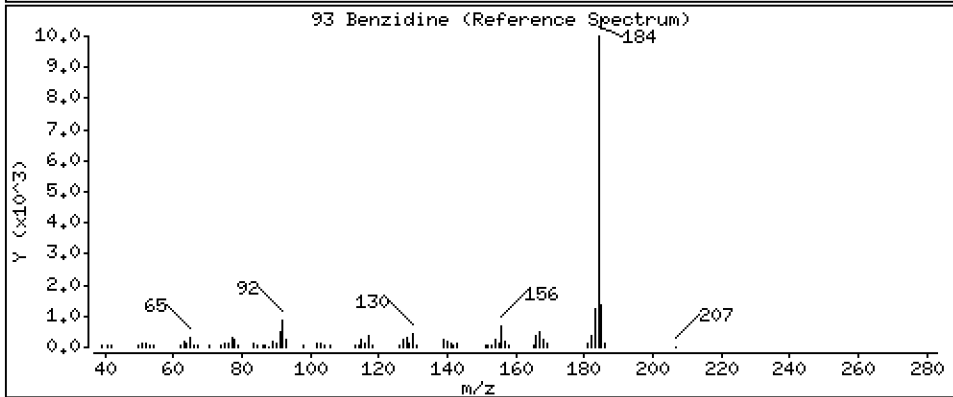
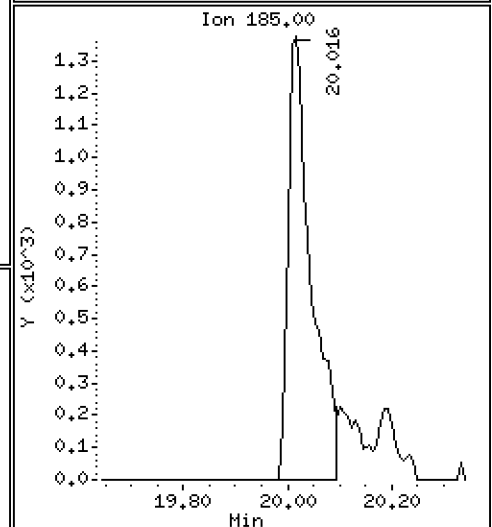
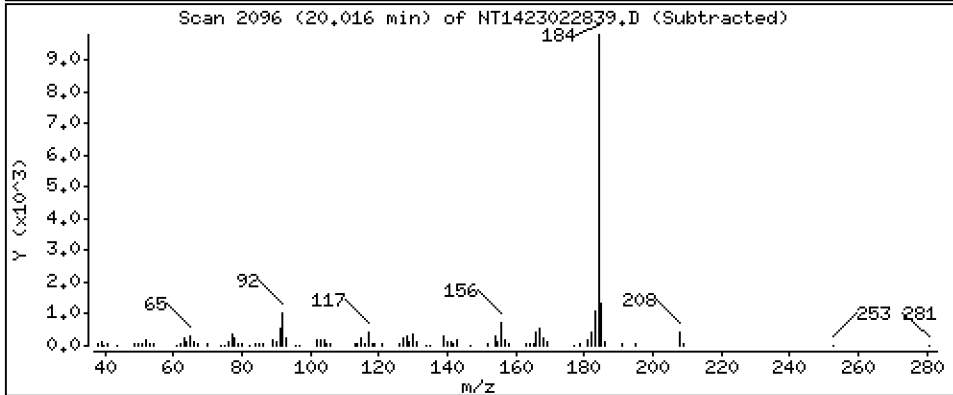
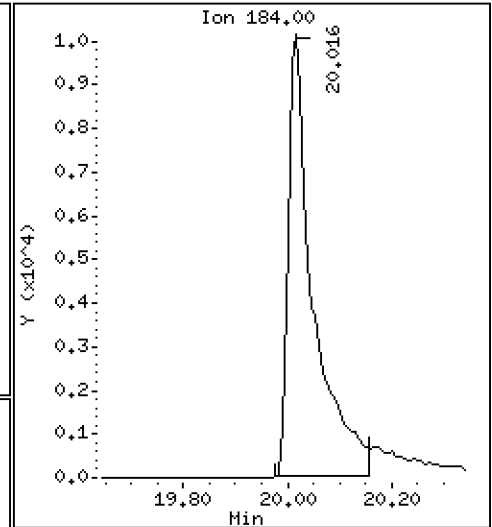
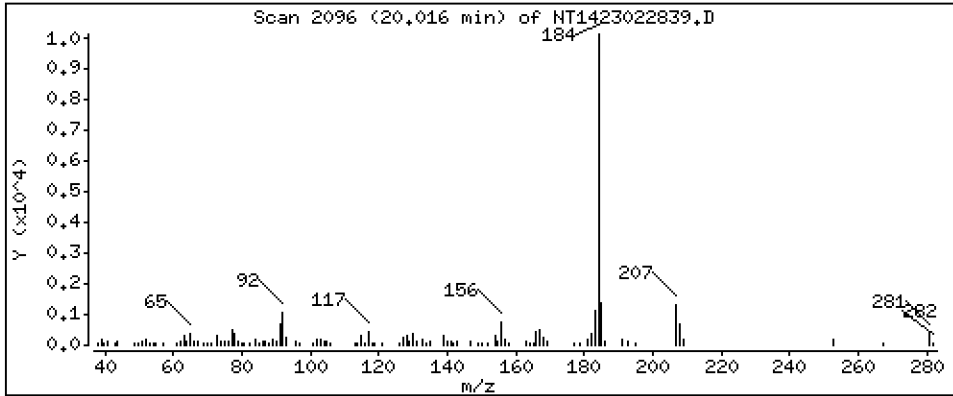
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

93 Benzidine

Concentration: 0,6124 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

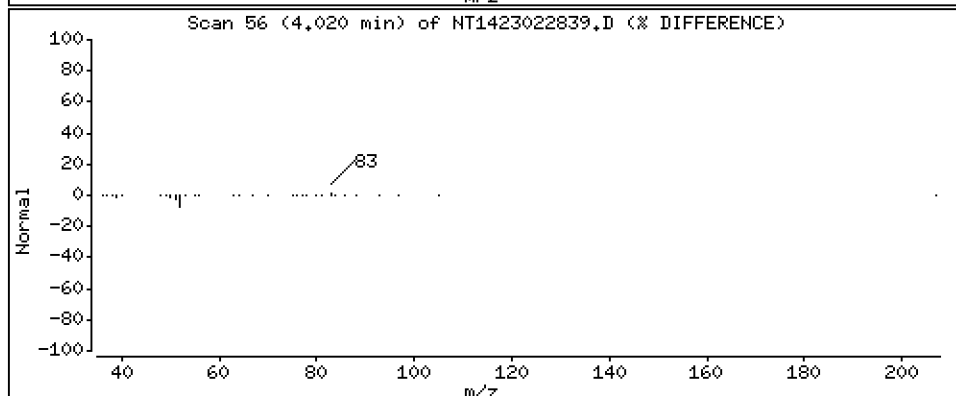
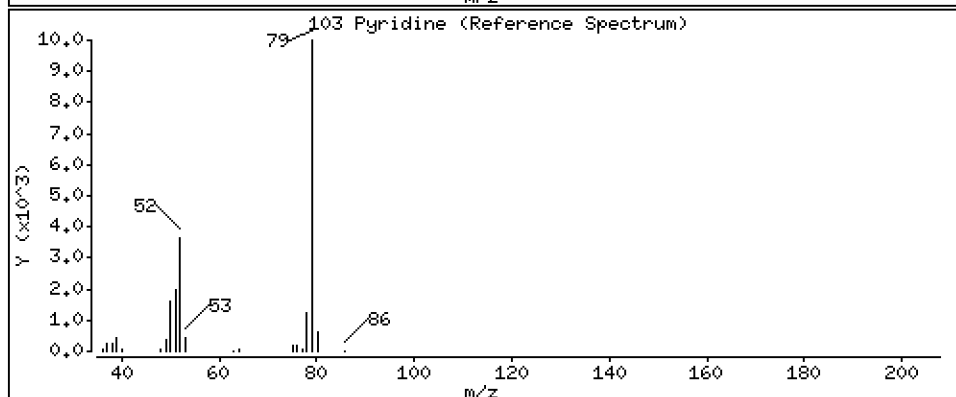
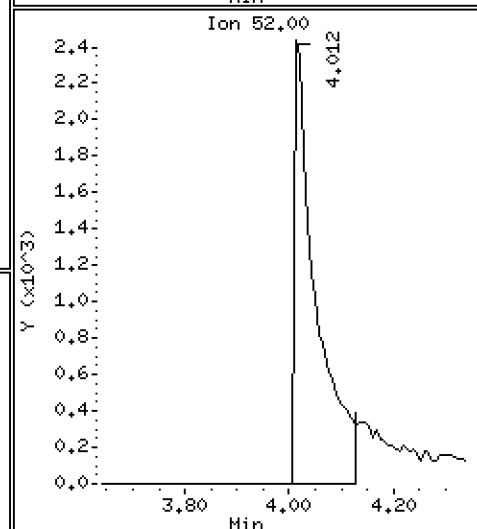
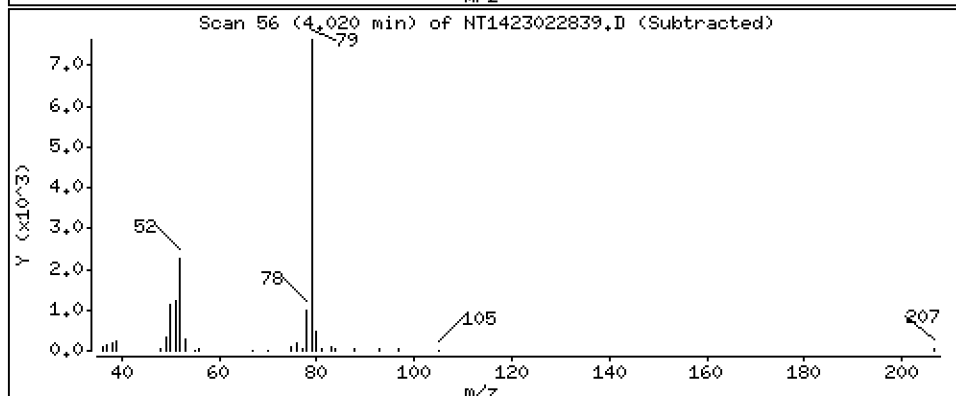
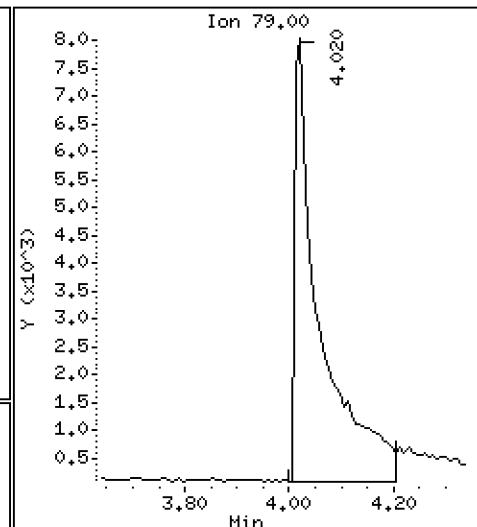
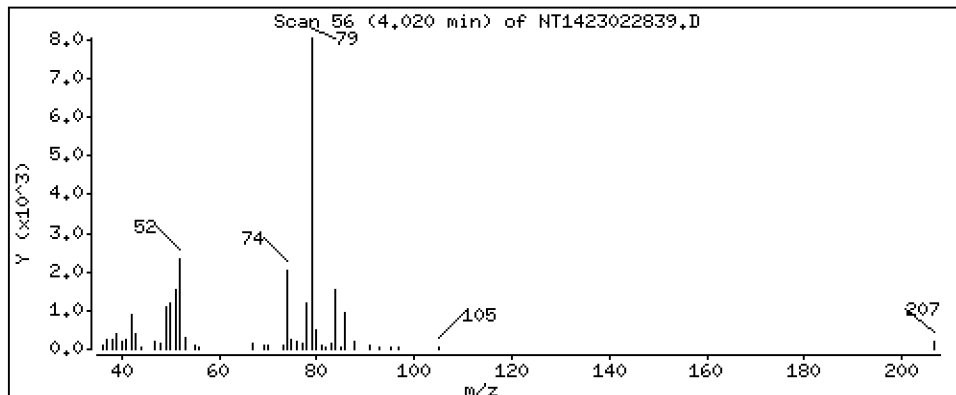
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

103 Pyridine

Concentration: 0,3914 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

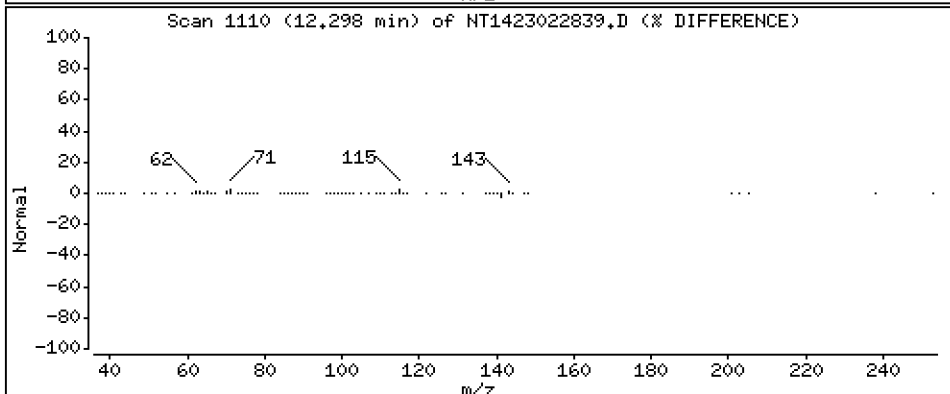
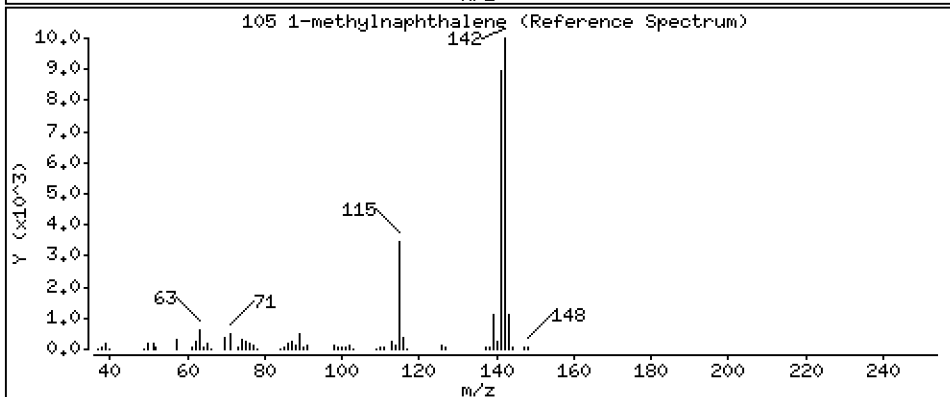
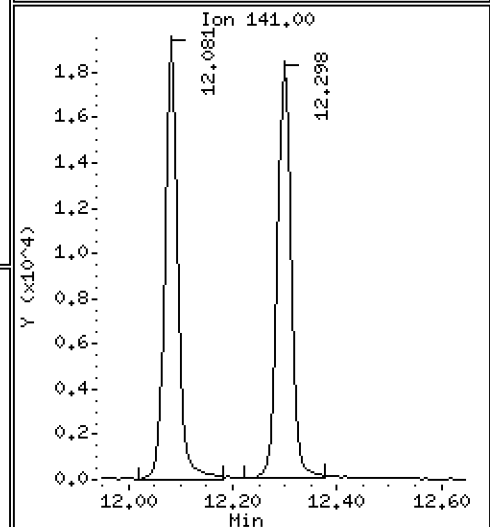
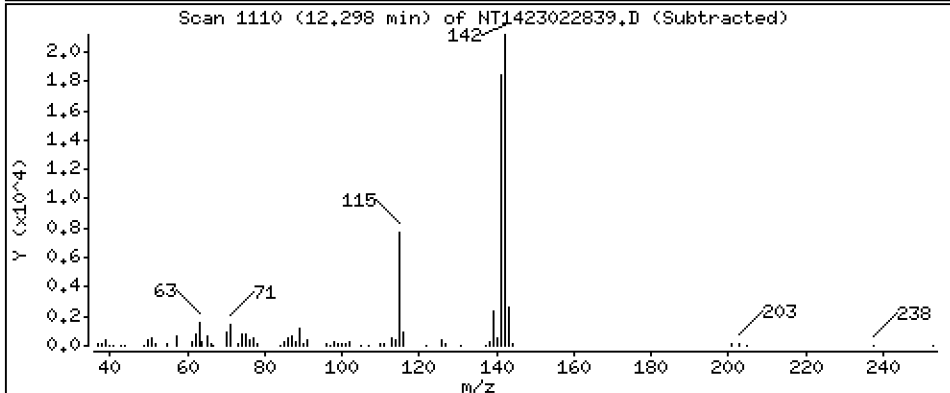
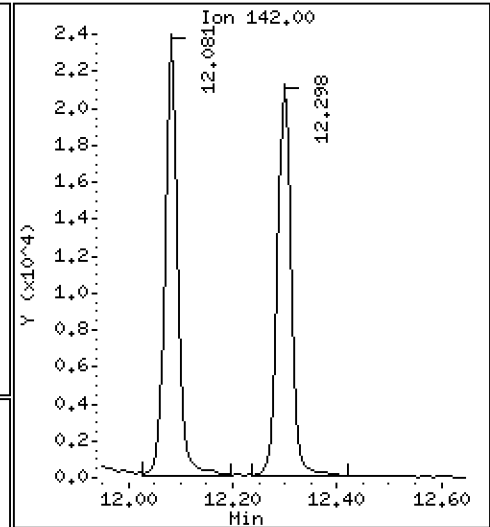
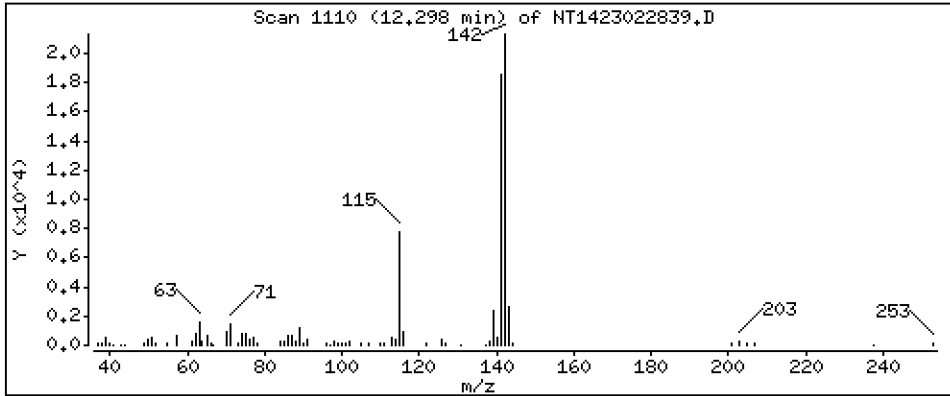
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 0,5086 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

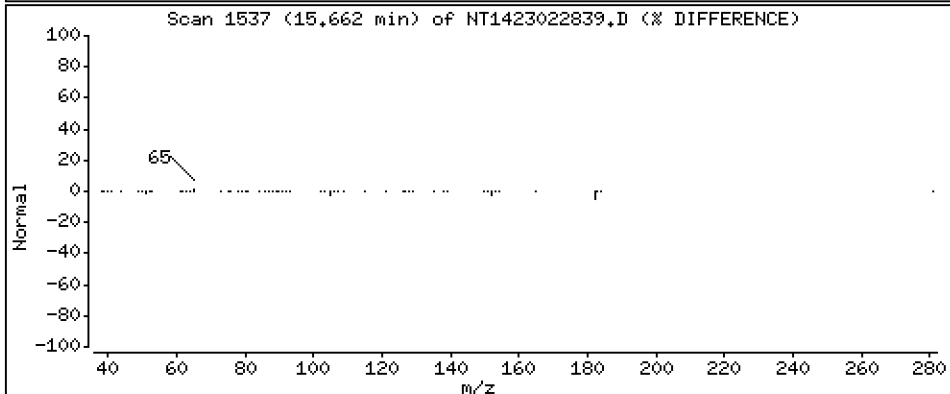
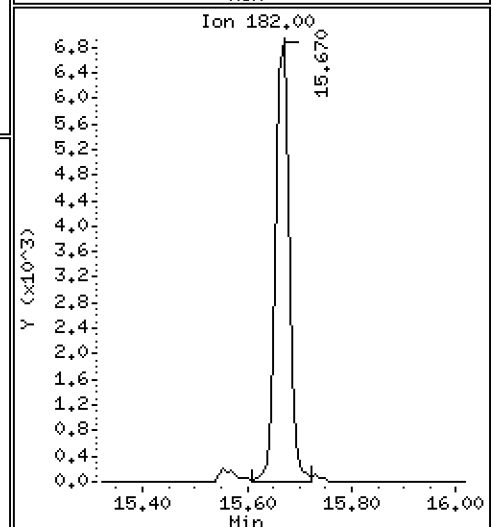
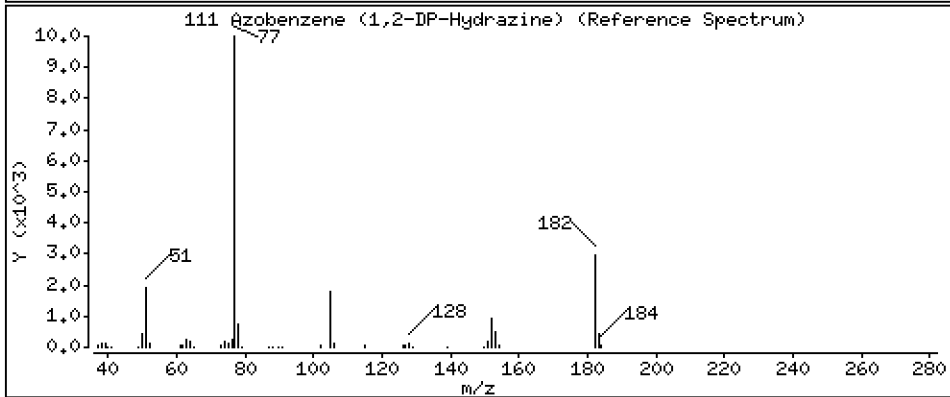
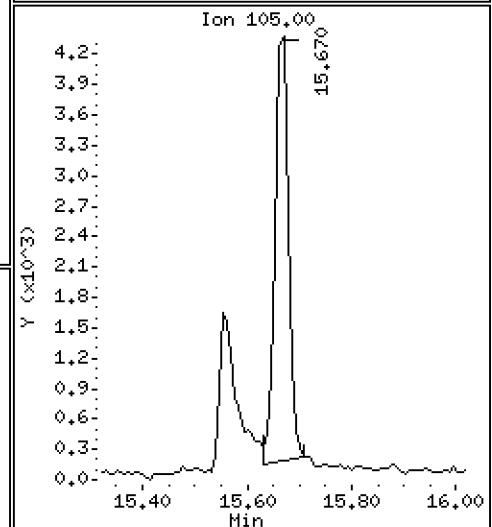
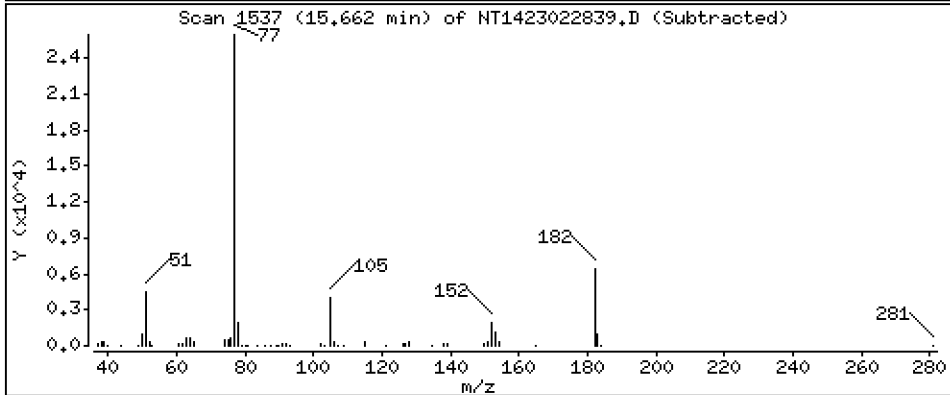
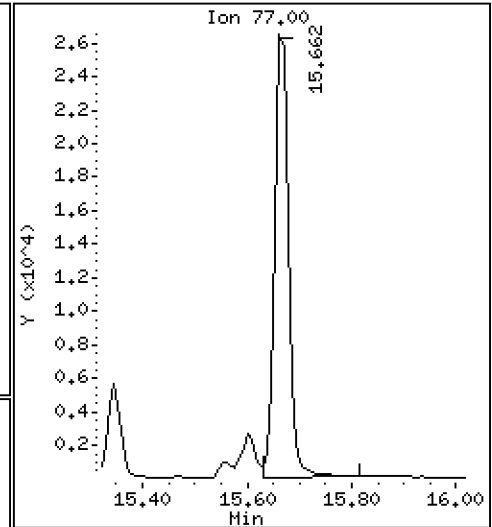
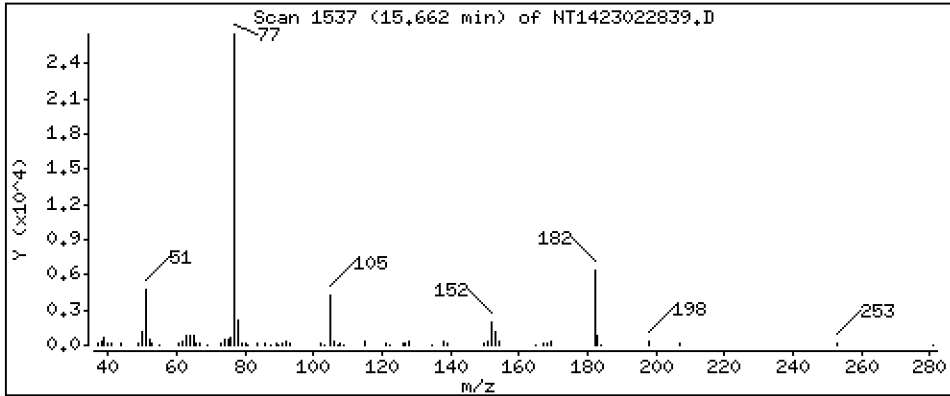
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 0,5890 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

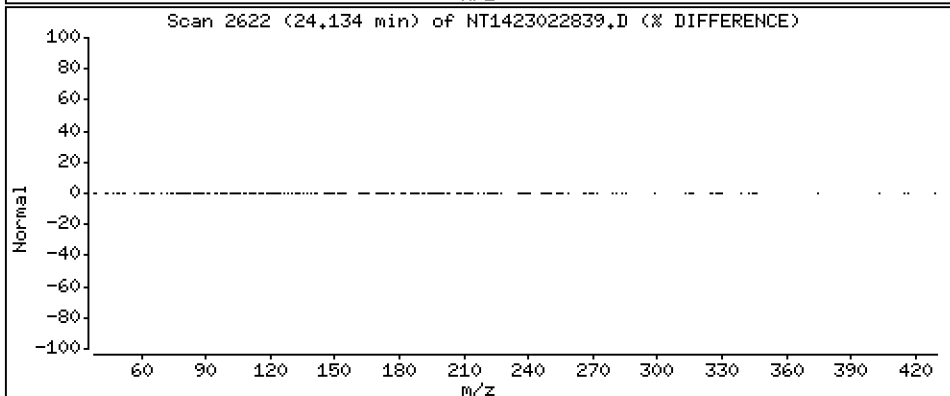
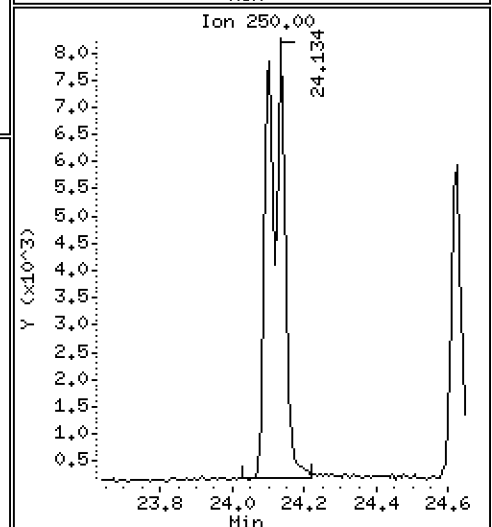
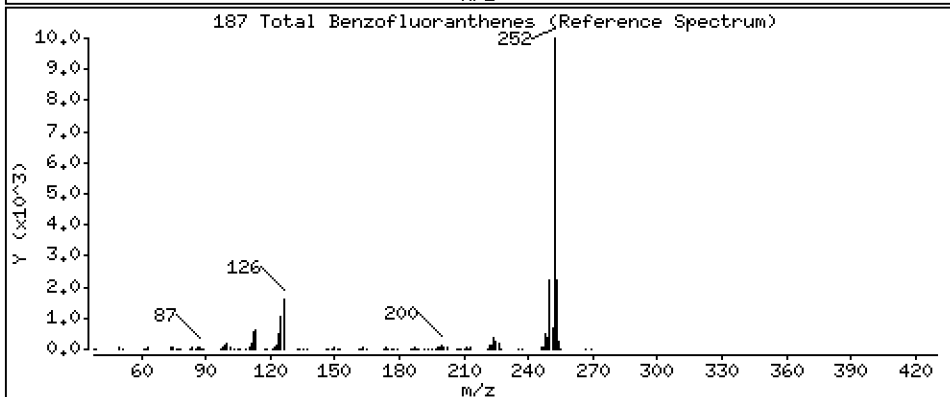
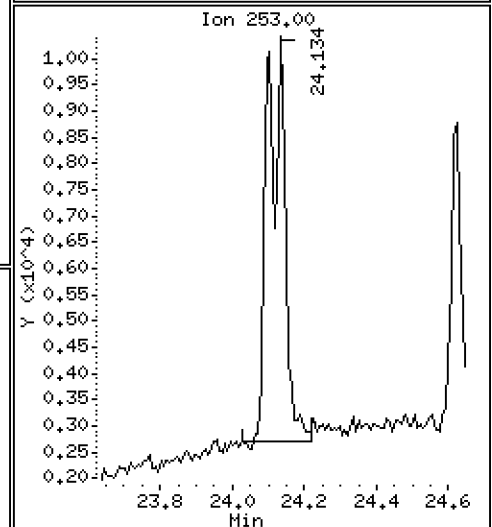
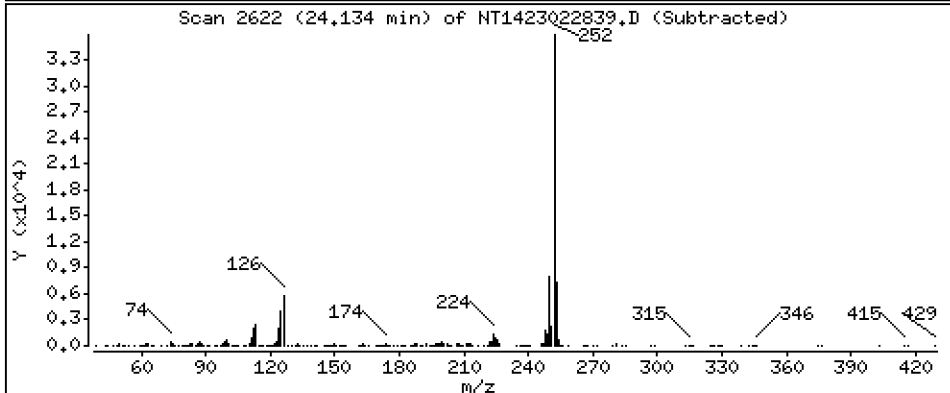
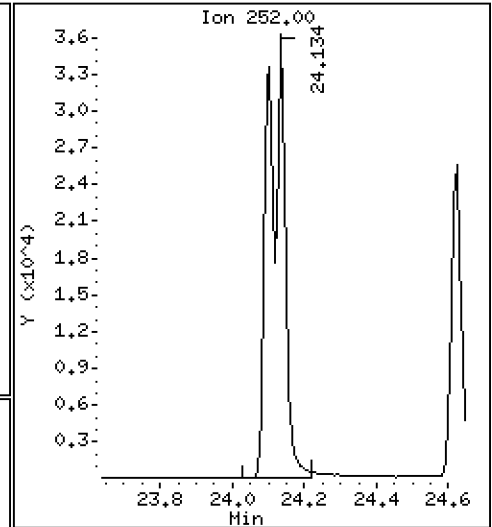
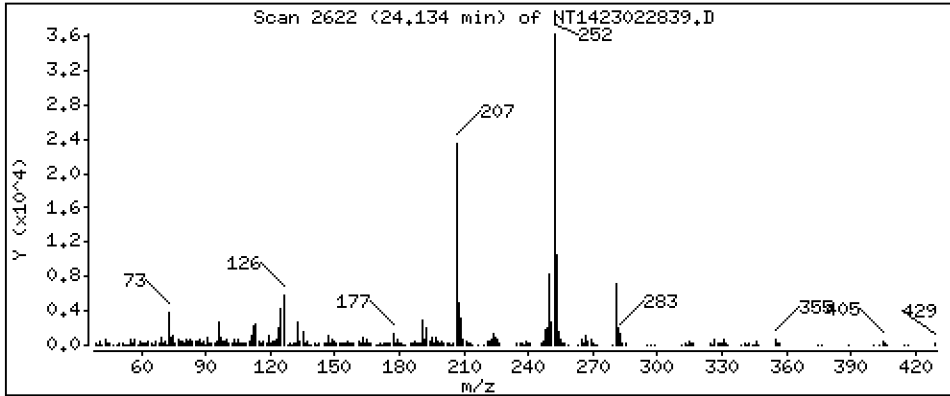
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 1,167 ug/mL



Date : 02-MAR-2023 00:28

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV4

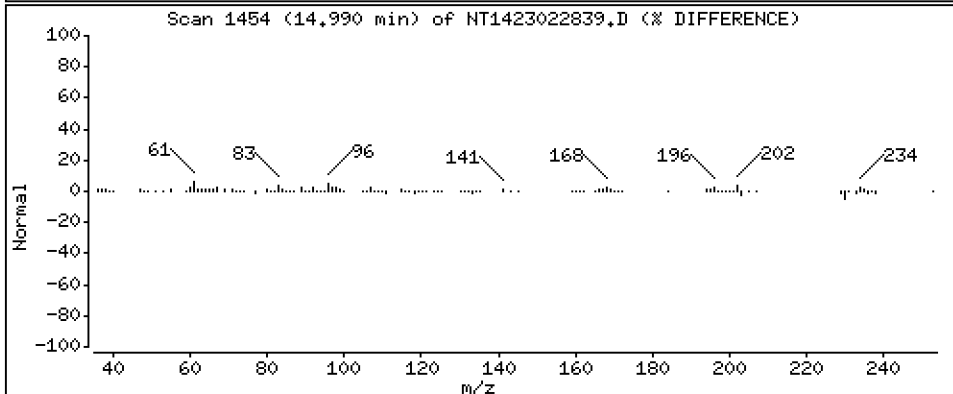
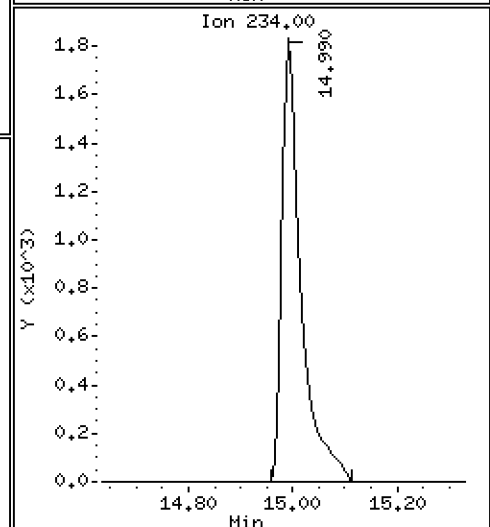
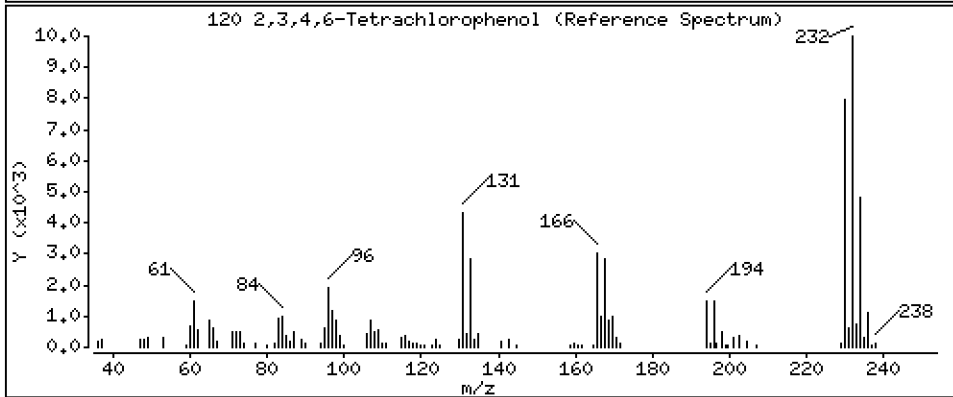
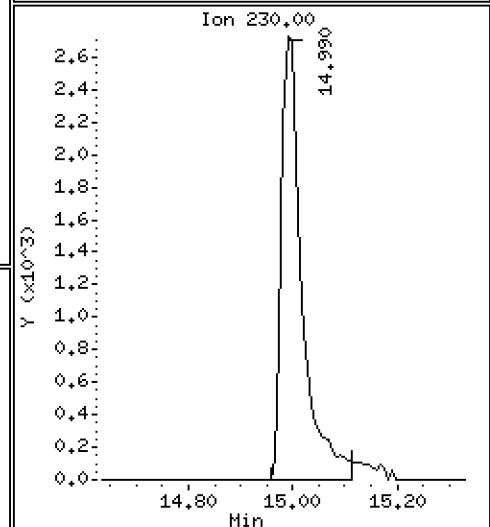
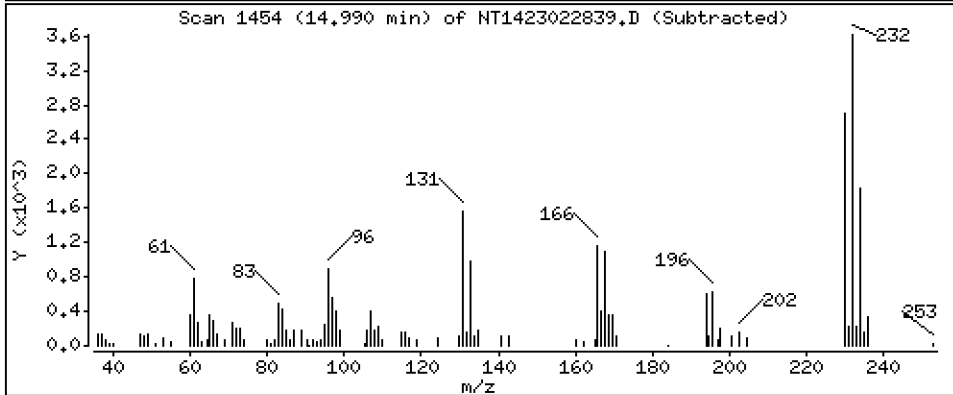
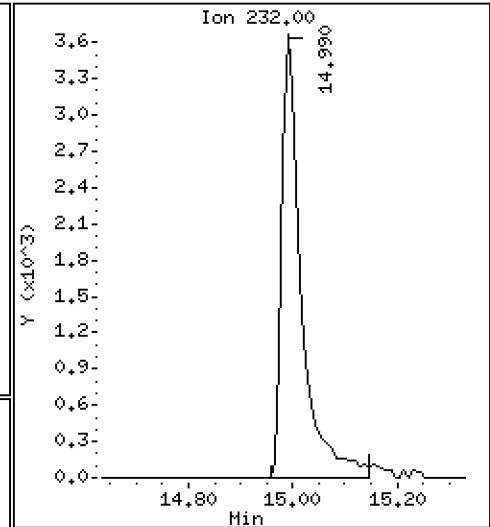
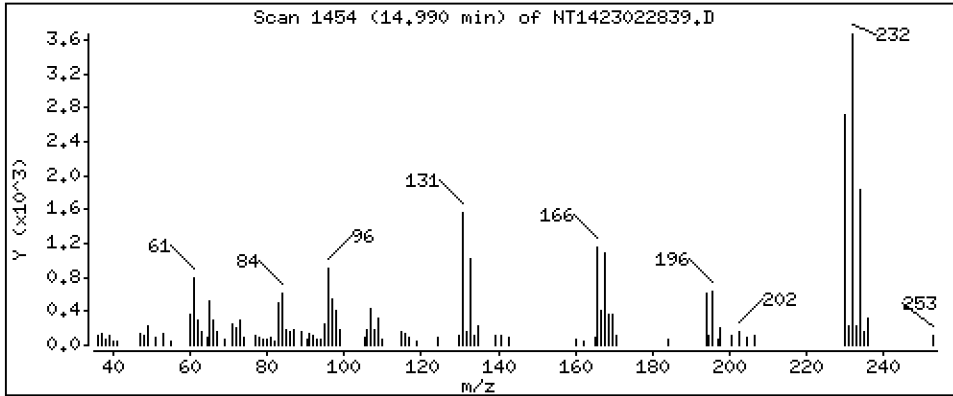
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

120 2,3,4,6-Tetrachlorophenol

Concentration: 0,3850 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230228.b\NT1423022839.D
 Lab Smp Id: SLB0374-LCV4
 Inj Date : 02-MAR-2023 00:28 MS Autotune Date: 17-MAY-2011 01:22
 Operator : JGR Inst ID: nt14.i
 Smp Info : SLB0374-LCV4
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt14.i\20230228.b\ABN.m
 Meth Date : 14-Mar-2023 08:52 van Quant Type: ISTD
 Cal Date : 28-FEB-2023 15:16 Cal File: NT1423022808.D
 Als bottle: 7
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: ICAL.sub
 Target Version: 4.14
 Processing Host: VANS-201906

| Compounds | QUANT | SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|---------------------------------|-------|-----|--------|--------|---------|----------|----------------|------------|
| | | | | | | | ON-COLUMN | FINAL |
| | MASS | | | | | | (ug/mL) | (ug/mL) |
| \$ 1 2-Fluorophenol | 112 | | 6.058 | 6.050 | (0.740) | 21041 | 0.68149 | 0.6815 |
| \$ 2 Phenol-d5 | 99 | | 7.642 | 7.642 | (0.933) | 31560 | 0.71996 | 0.7200 |
| 3 Phenol | 94 | | 7.665 | 7.665 | (0.936) | 25759 | 0.49250 | 0.4925 |
| \$ 5 2-Chlorophenol-d4 | 132 | | 7.858 | 7.850 | (0.959) | 28250 | 0.75791 | 0.7579 |
| 4 Bis(2-Chloroethyl)ether | 93 | | 7.781 | 7.781 | (0.950) | 18758 | 0.50903 | 0.5090 |
| 6 2-Chlorophenol | 128 | | 7.882 | 7.881 | (0.962) | 18201 | 0.47244 | 0.4724 |
| 7 1,3-Dichlorobenzene | 146 | | 8.129 | 8.129 | (0.992) | 22055 | 0.51947 | 0.5195 |
| * 8 1,4-Dichlorobenzene-d4 | 152 | | 8.191 | 8.199 | (1.000) | 113866 | 4.00000 | |
| 9 1,4-Dichlorobenzene | 146 | | 8.222 | 8.230 | (1.004) | 21018 | 0.50089 | 0.5009 |
| \$ 10 1,2-Dichlorobenzene-d4 | 152 | | 8.548 | 8.548 | (1.044) | 13993 | 0.49866 | 0.4987 |
| 12 1,2-Dichlorobenzene | 146 | | 8.572 | 8.571 | (1.046) | 21326 | 0.53002 | 0.5300 |
| 11 Benzyl alcohol | 108 | | 8.579 | 8.509 | (1.047) | 7595 | 0.33294 | 0.3329 (M) |
| 14 2,2'-oxybis(1-Chloropropane) | 121 | | 8.789 | 8.789 | (1.073) | 5668 | 0.52235 | 0.5223 |
| 13 2-Methylphenol | 108 | | 8.750 | 8.750 | (1.068) | 19550 | 0.59167 | 0.5917 |
| 17 Hexachloroethane | 117 | | 9.146 | 9.154 | (1.117) | 6238 | 0.39586 | 0.3959 |
| 16 N-Nitroso-di-n-propylamine | 70 | | 9.045 | 9.053 | (1.104) | 14070 | 0.55927 | 0.5593 |
| 15 4-Methylphenol | 108 | | 9.030 | 9.022 | (1.102) | 15567 | 0.40474 | 0.4047 |
| \$ 18 Nitrobenzene-d5 | 82 | | 9.293 | 9.285 | (0.873) | 21653 | 0.55112 | 0.5511 |
| 19 Nitrobenzene | 77 | | 9.325 | 9.324 | (0.876) | 20215 | 0.53543 | 0.5354 |
| 20 Isophorone | 82 | | 9.767 | 9.774 | (0.917) | 26127 | 0.44314 | 0.4431 |
| 21 2-Nitrophenol | 139 | | 9.953 | 9.945 | (0.935) | 7521 | 0.38482 | 0.3848 |
| 22 2,4-Dimethylphenol | 107 | | 10.046 | 10.046 | (0.943) | 35270 | 1.02472 | 1.025 |
| 23 Bis(2-Chloroethoxy)methane | 93 | | 10.224 | 10.224 | (0.960) | 20112 | 0.52986 | 0.5299 |
| 24 Benzoic acid | 105 | | 10.657 | 10.364 | (1.001) | 12402 | 0.90925 | 0.9092 (M) |
| 25 2,4-Dichlorophenol | 162 | | 10.418 | 10.410 | (0.978) | 30431 | 0.87404 | 0.8740 |
| 26 1,2,4-Trichlorobenzene | 180 | | 10.572 | 10.572 | (0.993) | 19323 | 0.49675 | 0.4967 |
| * 27 Naphthalene-d8 | 136 | | 10.650 | 10.649 | (1.000) | 401641 | 4.00000 | |
| 28 Naphthalene | 128 | | 10.688 | 10.688 | (1.004) | 56325 | 0.52575 | 0.5257 |
| 29 4-Chloroaniline | 127 | | 10.858 | 10.850 | (1.020) | 41091 | 0.89674 | 0.8967 |
| 30 Hexachlorobutadiene | 225 | | 11.067 | 11.066 | (1.039) | 10951 | 0.46136 | 0.4614 |
| 31 4-Chloro-3-methylphenol | 107 | | 11.856 | 11.848 | (1.113) | 30858 | 0.99602 | 0.9960 |
| 32 2-Methylnaphthalene | 142 | | 12.080 | 12.080 | (1.134) | 40795 | 0.51420 | 0.5142 |
| 33 Hexachlorocyclopentadiene | 237 | | 12.545 | 12.545 | (0.881) | 278 | 0.01142 | 0.01142 |

| Compounds | QUANT SIG | | | | | CONCENTRATIONS | |
|-----------------------------------|-----------|--------|--------|---------|----------|----------------------|------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | ON-COLUMN (ug/mL) | FINAL (ug/mL) |
| 34 2,4,6-Trichlorophenol | 196 | 12.723 | 12.723 | (0.894) | 20172 | 0.88977 | 0.8898 |
| 35 2,4,5-Trichlorophenol | 196 | 12.808 | 12.800 | (0.900) | 20179 | 0.82322 | 0.8232 |
| § 36 2-Fluorobiphenyl | 172 | 12.878 | 12.877 | (0.905) | 46913 | 0.51935 | 0.5193 |
| 37 2-Chloronaphthalene | 162 | 13.063 | 13.063 | (0.918) | 37076 | 0.51201 | 0.5120 |
| 38 2-Nitroaniline | 65 | 13.357 | 13.349 | (0.939) | 20216 | 1.07044 | 1.070 |
| 39 Dimethylphthalate | 163 | 13.799 | 13.798 | (0.970) | 40379 | 0.55314 | 0.5531 |
| 40 Acenaphthylene | 152 | 13.922 | 13.922 | (0.978) | 59655 | 0.56144 | 0.5614 |
| 41 2,6-Dinitrotoluene | 165 | 13.922 | 13.930 | (0.978) | 17169 | 1.00365 | 1.004 |
| * 42 Acenaphthene-d10 | 164 | 14.232 | 14.239 | (1.000) | 232085 | 4.00000 | |
| 43 3-Nitroaniline | 138 | 14.216 | 14.208 | (0.999) | 13375 | 0.76285 | 0.7629 |
| 44 Acenaphthene | 153 | 14.301 | 14.301 | (1.005) | 35358 | 0.51975 | 0.5197 |
| 45 2,4-Dinitrophenol | 184 | 14.487 | 14.417 | (1.018) | 3589 | 0.33180 | 0.3318 (M) |
| 46 Dibenzofuran | 168 | 14.626 | 14.634 | (1.028) | 54403 | 0.50259 | 0.5026 |
| 47 4-Nitrophenol | 109 | 14.665 | 14.587 | (1.030) | 6712 | 0.77392 | 0.7739 (M) |
| 48 2,4-Dinitrotoluene | 165 | 14.719 | 14.726 | (1.034) | 21618 | 0.87783 | 0.8778 |
| 50 Diethylphthalate | 149 | 15.245 | 15.252 | (1.071) | 37592 | 0.55068 | 0.5507 |
| 49 Fluorene | 166 | 15.330 | 15.337 | (1.077) | 47493 | 0.52074 | 0.5207 |
| 51 4-Chlorophenyl-phenylether | 204 | 15.345 | 15.345 | (1.078) | 23996 | 0.49449 | 0.4945 |
| 52 4-Nitroaniline | 138 | 15.484 | 15.469 | (1.088) | 12439 | 0.71571 | 0.7157 |
| 53 4,6-Dinitro-2-methylphenol | 198 | 15.561 | 15.553 | (0.903) | 10658 | 0.76010 | 0.7601 |
| 54 N-Nitrosodiphenylamine | 169 | 15.600 | 15.607 | (0.905) | 29910 | 0.56432 | 0.5643 |
| § 55 2,4,6-Tribromophenol | 330 | 15.870 | 15.870 | (1.115) | 6770 | 0.54242 | 0.5424 |
| 56 4-Bromophenyl-phenylether | 248 | 16.340 | 16.340 | (0.948) | 11816 | 0.50709 | 0.5071 |
| 57 Hexachlorobenzene | 284 | 16.626 | 16.634 | (0.965) | 13457 | 0.52527 | 0.5253 |
| 58 Pentachlorophenol | 266 | 17.029 | 17.005 | (0.988) | 6063 | 0.50236 | 0.5024 (M) |
| * 59 Phenanthrene-d10 | 188 | 17.238 | 17.245 | (1.000) | 421769 | 4.00000 | |
| 60 Phenanthrene | 178 | 17.284 | 17.291 | (1.003) | 57808 | 0.51522 | 0.5152 |
| 61 Anthracene | 178 | 17.385 | 17.384 | (1.009) | 56384 | 0.53157 | 0.5316 |
| 62 Carbazole | 167 | 17.740 | 17.732 | (1.029) | 45658 | 0.49113 | 0.4911 |
| 63 Di-n-butylphthalate | 149 | 18.591 | 18.591 | (1.079) | 59448 | 0.49567 | 0.4957 |
| 64 Fluoranthene | 202 | 19.713 | 19.713 | (0.882) | 60055 | 0.46780 | 0.4678 |
| 65 Pyrene | 202 | 20.139 | 20.139 | (0.901) | 64188 | 0.47423 | 0.4742 |
| § 66 Terphenyl-d14 | 244 | 20.472 | 20.471 | (0.916) | 48524 | 0.46562 | 0.4656 |
| 67 Butylbenzylphthalate | 149 | 21.439 | 21.439 | (0.959) | 24089 | 0.50341 | 0.5034 |
| 68 Benzo(a)anthracene | 228 | 22.338 | 22.337 | (0.999) | 61963 | 0.54666 | 0.5467 |
| * 69 Chrysene-d12 | 240 | 22.361 | 22.368 | (1.000) | 338375 | 4.00000 | |
| 70 3,3'-Dichlorobenzidine | 252 | 22.322 | 22.330 | (0.998) | 61380 | 1.89623 | 1.896 |
| 71 Chrysene | 228 | 22.407 | 22.415 | (1.002) | 57233 | 0.52532 | 0.5253 |
| 72 bis(2-Ethylhexyl)phthalate | 149 | 22.493 | 22.492 | (0.958) | 33483 | 0.45826 | 0.4583 |
| * 134 Di-n-octylphthalate-d4 | 153 | 23.468 | 23.476 | (1.000) | 478625 | 4.00000 | |
| 73 Di-n-octylphthalate | 149 | 23.476 | 23.483 | (1.000) | 63483 | 0.50375 | 0.5038 |
| 74 Benzo(b)fluoranthene | 252 | 24.103 | 24.103 | (0.975) | 59947 | 0.57480 | 0.5748 |
| 75 Benzo(k)fluoranthene | 252 | 24.134 | 24.141 | (0.977) | 65965 | 0.58629 | 0.5863 |
| 76 Benzo(a)pyrene | 252 | 24.622 | 24.621 | (0.996) | 48646 | 0.54368 | 0.5437 |
| * 77 Perylene-d12 | 264 | 24.715 | 24.714 | (1.000) | 315661 | 4.00000 | |
| 78 Indeno(1,2,3-cd)pyrene | 276 | 26.792 | 26.784 | (1.084) | 28384 | 0.25201 | 0.2520 |
| 79 Dibenzo(a,h)anthracene | 278 | 26.808 | 26.800 | (1.085) | 26906 | 0.28126 | 0.2813 |
| 80 Benzo(g,h,i)perylene | 276 | 27.398 | 27.383 | (1.109) | 19508 | 0.19859 | 0.1986 |
| 90 N-Nitrosodimethylamine | 74 | 3.988 | 3.988 | (0.487) | 16106 | 0.69000 | 0.6900 |
| 91 Aniline | 93 | 7.681 | 7.681 | (0.938) | 49138 | 0.91246 | 0.9125 |
| 93 Benzidine | 184 | 20.015 | 19.992 | (0.895) | 33592 | 0.61245 | 0.6124 |
| 103 Pyridine | 79 | 4.019 | 3.988 | (0.491) | 27003 | 0.39141 | 0.3914 |
| 105 1-methylnaphthalene | 142 | 12.297 | 12.297 | (1.155) | 37145 | 0.50856 | 0.5086 |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77 | 15.662 | 15.669 | (1.100) | 46156 | 0.58895 | 0.5890 |

| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|-------------------------------|-----------|--------|--------|---------|----------|----------------------|------------------|
| | | | | | | ON-COLUMN (ug/mL) | FINAL (ug/mL) |
| 187 Total Benzofluoranthenes | 252 | 24.134 | 24.141 | (0.977) | 119075 | 1.16718 | 1.167 |
| 120 2,3,4,6-Tetrachlorophenol | 232 | 14.989 | 14.981 | (1.053) | 10064 | 0.38501 | 0.3850 |

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 01-MAR-2023
 Lab File ID: NT1423022839.D Calibration Time: 22:40
 Lab Smp Id: SLB0374-LCV4
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: JGR
 Method File: \\target\share\chem3\nt14.i\20230228.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|--------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 115350 | 57675 | 230700 | 113866 | -1.29 |
| 27 Naphthalene-d8 | 415895 | 207948 | 831790 | 401641 | -3.43 |
| 42 Acenaphthene-d10 | 246020 | 123010 | 492040 | 232085 | -5.66 |
| 59 Phenanthrene-d10 | 448598 | 224299 | 897196 | 421769 | -5.98 |
| 69 Chrysene-d12 | 373978 | 186989 | 747956 | 338375 | -9.52 |
| 134 Di-n-octylphthala | 541572 | 270786 | 1083144 | 478625 | -11.62 |
| 77 Perylene-d12 | 357819 | 178910 | 715638 | 315661 | -11.78 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 8.20 | 7.70 | 8.70 | 8.19 | -0.09 |
| 27 Naphthalene-d8 | 10.65 | 10.15 | 11.15 | 10.65 | 0.00 |
| 42 Acenaphthene-d10 | 14.24 | 13.74 | 14.74 | 14.23 | -0.05 |
| 59 Phenanthrene-d10 | 17.25 | 16.75 | 17.75 | 17.24 | -0.04 |
| 69 Chrysene-d12 | 22.37 | 21.87 | 22.87 | 22.36 | -0.03 |
| 134 Di-n-octylphthala | 23.48 | 22.98 | 23.98 | 23.47 | -0.03 |
| 77 Perylene-d12 | 24.71 | 24.21 | 25.21 | 24.72 | 0.00 |

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

REVIEW SUMMARY FOR FILE - NT1423022839.D

Lab ID: SLB0374-LCV4
nt14.i, ABN.m, 02-MAR-2023 00:28

RT CO-ELUTION COMPOUNDS

13.923 Acenaphthylene and 2,6-Dinitrotoluene

Quant Method: ICAL

RRT CHECK

| RRT | CCV RRT | DELTA | COMPOUND |
|-------|---------|--------|-------------------|
| 1.047 | 1.038 | 0.0095 | Benzyl alcohol |
| 1.001 | 0.973 | 0.0276 | Benzoic acid |
| 1.018 | 1.012 | 0.0054 | 2,4-Dinitrophenol |
| 1.030 | 1.024 | 0.0060 | 4-Nitrophenol |

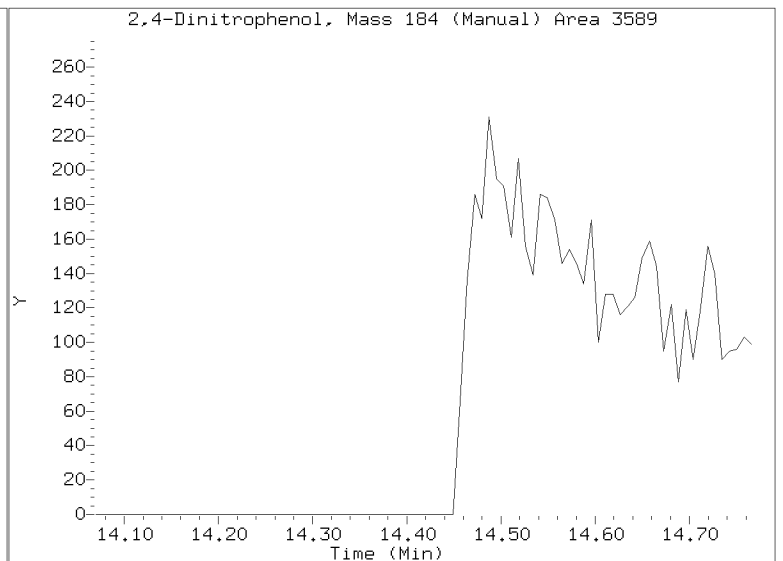
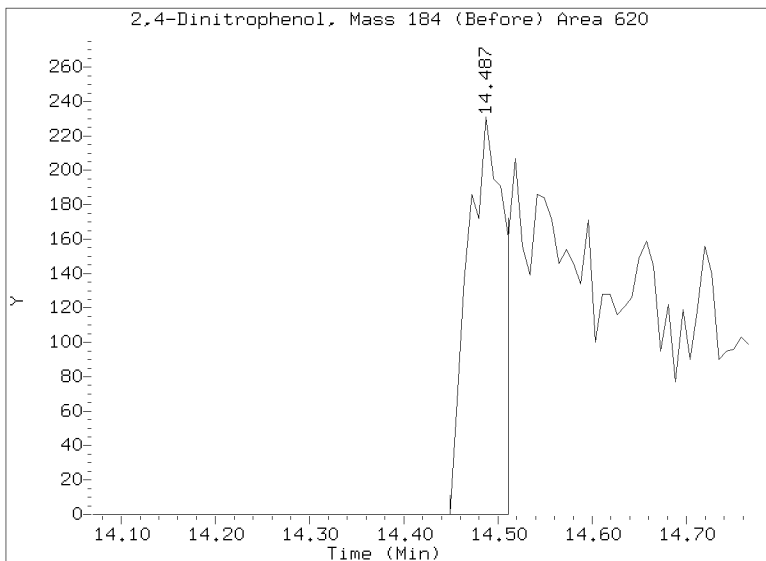
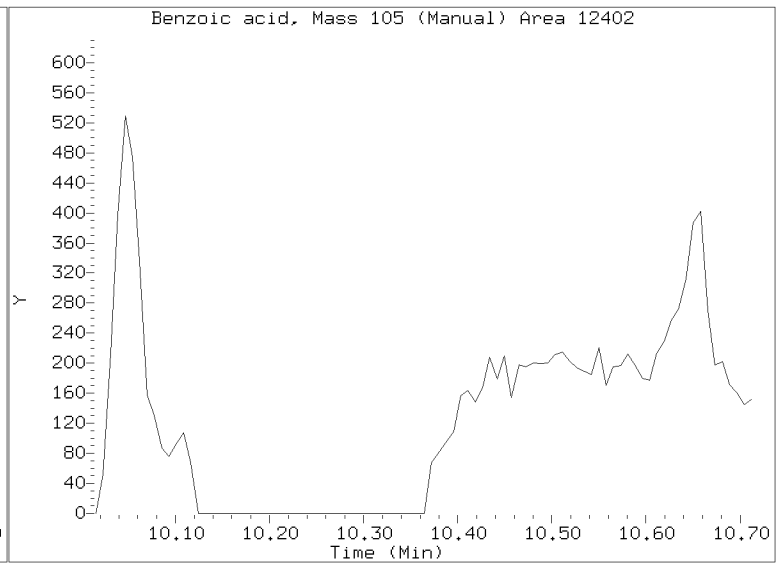
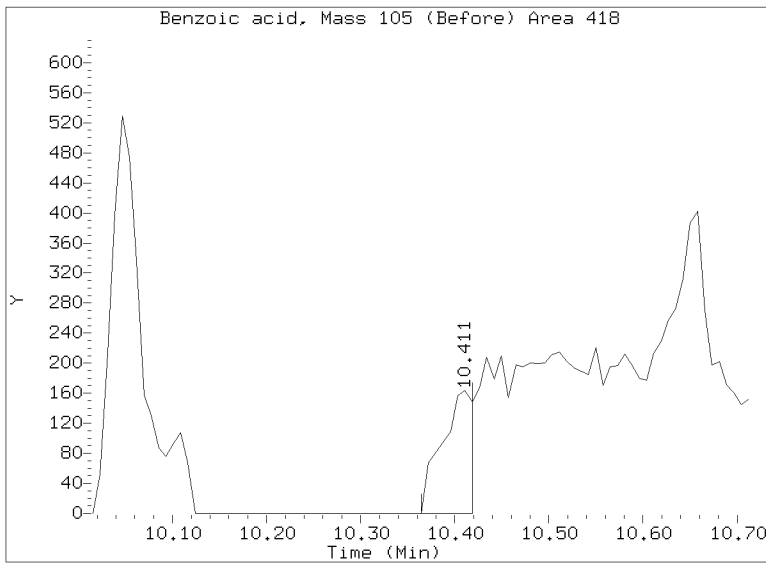
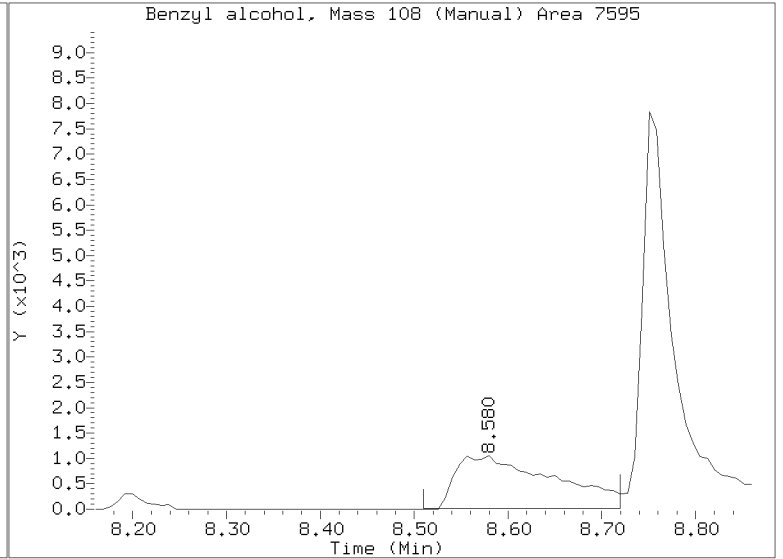
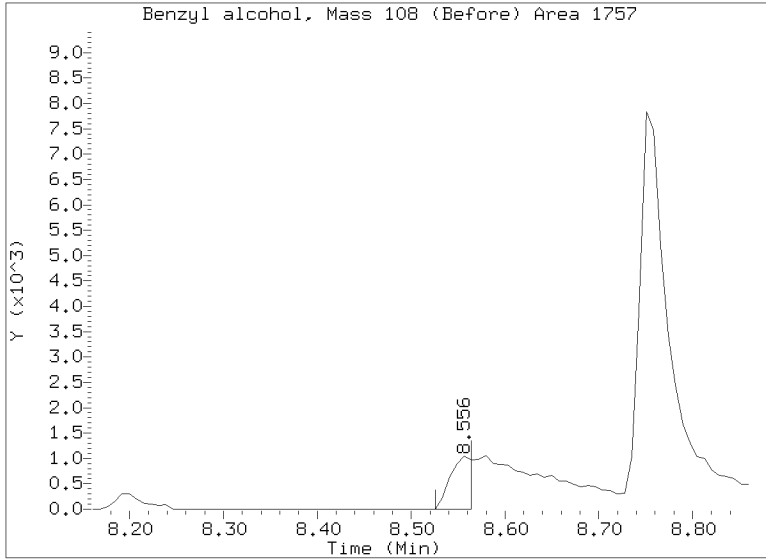
RRT check based on Ccal File: NT1423022836.D

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

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

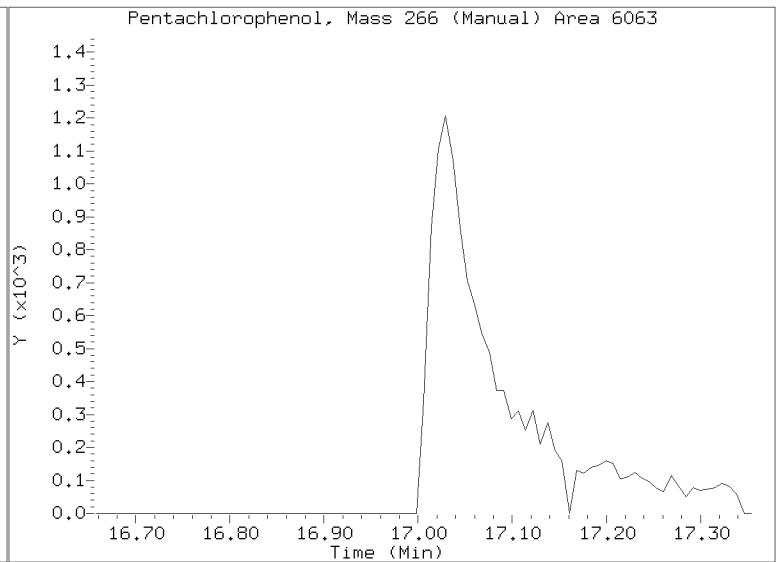
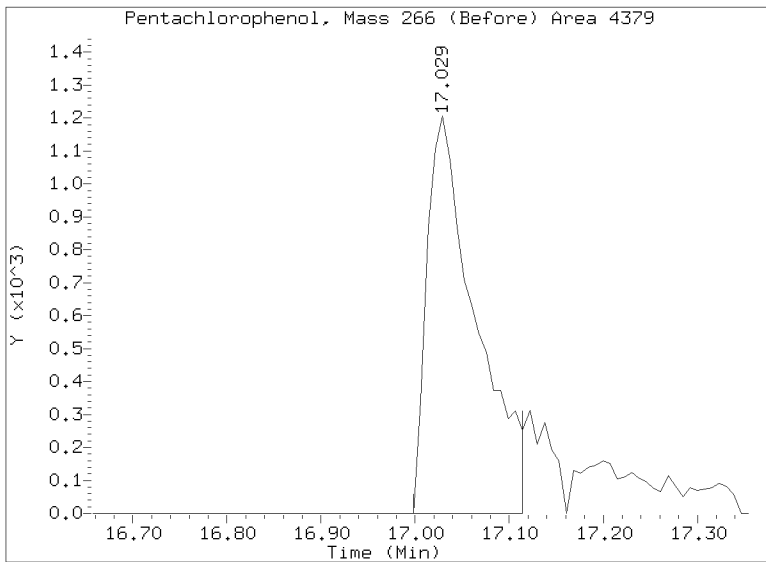
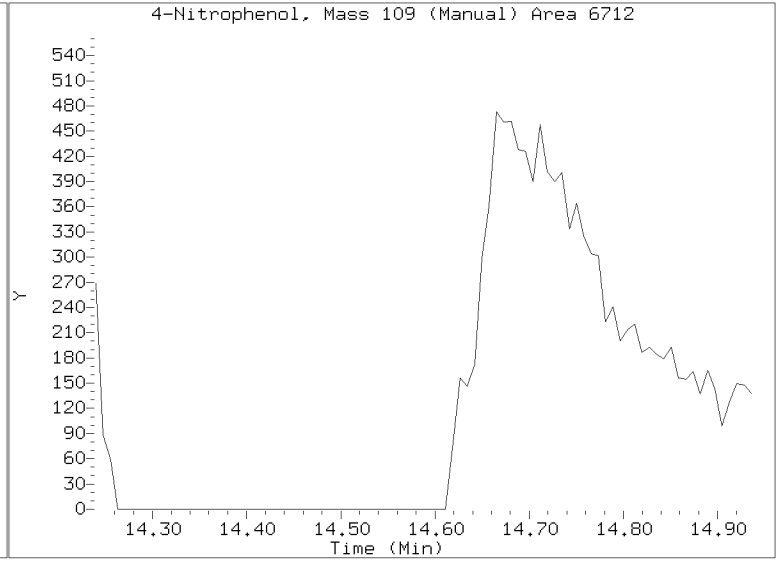
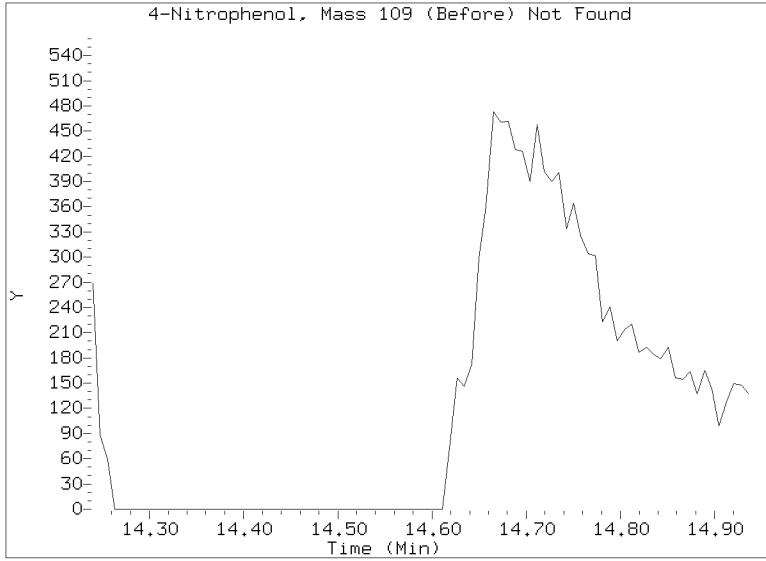
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230228.b/NT1423022839.D
Injection Date: 02-MAR-2023 00:28
Lab ID:SLB0374-LCV4 Client ID:
Report Date: 03/14/2023 08:53



Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230228.b/NT1423022839.D
Injection Date: 02-MAR-2023 00:28
Lab ID:SLB0374-LCV4 Client ID:
Report Date: 03/14/2023 08:53





LOW-CONCENTRATION
CONTINUING CALIBRATION CHECK
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: NT14

Calibration: GC00033

Lab File ID: NT1423022850.D

Calibration Date: 02/28/2023

Sequence: SLB0374

Injection Date: 03/02/23

Lab Sample ID: SLB0374-LCV5

Injection Time: 07:04

Sequence Name: ABN 0.2

| COMPOUND | TYPE | CONC. (ug/mL) | | RESPONSE FACTOR (RRF) | | | % DRIFT/DIFF | |
|------------------------------|------|---------------|------|-----------------------|-----------|-----|--------------|---------|
| | | STD | CCV | ICAL | CCV | MIN | CCV | LIMIT |
| Phenol | A | 0.20000 | 0.2 | 1.8373500 | 1.5293740 | | -16.8 | +/-50 |
| bis(2-chloroethyl) ether | A | 0.20000 | 0.2 | 1.5312550 | 1.5345710 | | 18.3 | +/-50 |
| 2-Chlorophenol | A | 0.20000 | 0.2 | 1.3533690 | 1.4084650 | | 4.1 | +/-50 |
| 1,3-Dichlorobenzene | A | 0.20000 | 0.2 | 1.4914740 | 1.5967570 | | 7.1 | +/-50 |
| 1,4-Dichlorobenzene | A | 0.20000 | 0.2 | 1.4740600 | 1.5326650 | | 4.0 | +/-50 |
| 1,2-Dichlorobenzene | A | 0.20000 | 0.2 | 1.4134490 | 1.4903990 | | 5.4 | +/-50 |
| Benzyl Alcohol | A | 0.20000 | 0.08 | 0.6439892 | 0.3284283 | | -59.0 | +/-50 * |
| 2,2'-Oxybis(1-chloropropane) | A | 0.20000 | 0.2 | 0.3811859 | 0.3855914 | | 1.2 | +/-50 |
| 2-Methylphenol | A | 0.20000 | 0.2 | 1.1607310 | 1.0084970 | | -13.1 | +/-50 |
| Hexachloroethane | A | 0.20000 | 0.2 | 0.5535732 | 0.4176374 | | -24.6 | +/-50 |
| N-Nitroso-di-n-Propylamine | A | 0.20000 | 0.2 | 0.8837751 | 0.9371292 | | 6.0 | +/-50 |
| 4-Methylphenol | A | 0.20000 | 0.1 | 1.1353050 | 0.9459635 | | -30.1 | +/-50 |
| Nitrobenzene | A | 0.20000 | 0.2 | 0.3760061 | 0.3850423 | | 2.4 | +/-50 |
| Isophorone | A | 0.20000 | 0.2 | 0.4996273 | 0.4820958 | | -18.0 | +/-50 |
| 2-Nitrophenol | A | 0.20000 | 0.1 | 0.1467597 | 0.1272089 | | -34.6 | +/-50 |
| 2,4-Dimethylphenol | A | 0.40000 | 0.4 | 0.3427845 | 0.3484948 | | 1.7 | +/-50 |
| Bis(2-Chloroethoxy)methane | A | 0.20000 | 0.2 | 0.3780235 | 0.3433713 | | -9.2 | +/-50 |
| 2,4-Dichlorophenol | A | 0.40000 | 0.3 | 0.2946235 | 0.2863298 | | -17.7 | +/-50 |
| 1,2,4-Trichlorobenzene | A | 0.20000 | 0.2 | 0.3874001 | 0.3786990 | | -2.2 | +/-50 |
| Naphthalene | A | 0.20000 | 0.2 | 1.0669580 | 1.1638130 | | 9.1 | +/-50 |
| Benzoic acid | A | 0.80000 | 0.0 | 0.1358415 | | | | +/-50 * |
| 4-Chloroaniline | A | 0.40000 | 0.3 | 0.4563565 | 0.3908734 | | -14.4 | +/-50 |
| Hexachlorobutadiene | A | 0.20000 | 0.2 | 0.2363916 | 0.2141618 | | -9.4 | +/-50 |
| 4-Chloro-3-Methylphenol | A | 0.40000 | 0.3 | 0.3085482 | 0.2646648 | | -14.2 | +/-50 |
| 2-Methylnaphthalene | A | 0.20000 | 0.2 | 0.7901196 | 0.7290968 | | -7.7 | +/-50 |
| Hexachlorocyclopentadiene | A | 0.40000 | 0.0 | 0.3443795 | | | | +/-50 * |
| 2,4,6-Trichlorophenol | A | 0.40000 | 0.3 | 0.3907367 | 0.3166354 | | -19.0 | +/-50 |
| 2,4,5-Trichlorophenol | A | 0.40000 | 0.4 | 0.4224702 | 0.4424994 | | 4.7 | +/-50 |
| 2-Chloronaphthalene | A | 0.20000 | 0.2 | 1.2480280 | 1.3002330 | | 4.2 | +/-50 |
| 2-Nitroaniline | A | 0.40000 | 0.4 | 0.3254949 | 0.2989650 | | -8.2 | +/-50 |
| Acenaphthylene | A | 0.20000 | 0.2 | 1.8312950 | 1.9995830 | | 9.2 | +/-50 |
| Dimethylphthalate | A | 0.20000 | 0.2 | 1.2581570 | 1.3187280 | | 4.8 | +/-50 |
| 2,6-Dinitrotoluene | A | 0.40000 | 0.4 | 0.2948315 | 0.2686603 | | -8.9 | +/-50 |
| Acenaphthene | A | 0.20000 | 0.2 | 1.1724930 | 1.2341530 | | 5.3 | +/-50 |

* Values outside of QC limits



LOW-CONCENTRATION
CONTINUING CALIBRATION CHECK
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: NT14

Calibration: GC00033

Lab File ID: NT1423022850.D

Calibration Date: 02/28/2023

Sequence: SLB0374

Injection Date: 03/02/23

Lab Sample ID: SLB0374-LCV5

Injection Time: 07:04

Sequence Name: ABN 0.2

| COMPOUND | TYPE | CONC. (ug/mL) | | RESPONSE FACTOR (RRF) | | | % DRIFT/DIFF | |
|----------------------------|------|---------------|-------|-----------------------|-----------|-----|--------------|---------|
| | | STD | CCV | ICAL | CCV | MIN | CCV | LIMIT |
| 3-Nitroaniline | A | 0.40000 | 0.3 | 0.3021810 | 0.2331024 | | -22.9 | +/-50 |
| 2,4-Dinitrophenol | A | 0.80000 | 0.0 | 0.1437811 | | | | +/-50 * |
| Dibenzofuran | A | 0.20000 | 0.2 | 1.8656210 | 1.8669030 | | 0.07 | +/-50 |
| 4-Nitrophenol | A | 0.40000 | 0.0 | 0.1323756 | | | | +/-50 * |
| 2,4-Dinitrotoluene | A | 0.40000 | 0.3 | 0.4244424 | 0.3121635 | | -26.5 | +/-50 |
| Fluorene | A | 0.20000 | 0.2 | 1.5719010 | 1.6668400 | | 6.0 | +/-50 |
| 4-Chlorophenylphenyl ether | A | 0.20000 | 0.2 | 0.8363665 | 0.8199611 | | -2.0 | +/-50 |
| Diethyl phthalate | A | 0.20000 | 0.2 | 1.1765440 | 1.2753990 | | 8.4 | +/-50 |
| 4-Nitroaniline | A | 0.40000 | 0.3 | 0.2995450 | 0.2182106 | | -27.2 | +/-50 |
| 4,6-Dinitro-2-methylphenol | A | 0.80000 | 0.2 | 0.0975169 | 0.0273845 | | -79.4 | +/-50 * |
| N-Nitrosodiphenylamine | A | 0.20000 | 0.2 | 0.5026629 | 0.5441959 | | 8.3 | +/-50 |
| 4-Bromophenyl phenyl ether | A | 0.20000 | 0.2 | 0.2209900 | 0.2127568 | | -3.7 | +/-50 |
| Hexachlorobenzene | A | 0.20000 | 0.2 | 0.2429692 | 0.2446895 | | 0.7 | +/-50 |
| Pentachlorophenol | A | 0.40000 | 0.1 | 0.0938263 | 0.0414359 | | -63.7 | +/-50 * |
| Phenanthrene | A | 0.20000 | 0.2 | 1.0640870 | 1.1192230 | | 5.2 | +/-50 |
| Anthracene | A | 0.20000 | 0.2 | 1.0059580 | 1.0296970 | | 2.4 | +/-50 |
| Carbazole | A | 0.20000 | 0.2 | 0.8816605 | 0.8270896 | | -6.2 | +/-50 |
| Di-n-Butylphthalate | A | 0.20000 | 0.2 | 0.9469101 | 1.1009830 | | -3.3 | +/-50 |
| Fluoranthene | A | 0.20000 | 0.2 | 1.5175930 | 1.3378110 | | -11.8 | +/-50 |
| Pyrene | A | 0.20000 | 0.2 | 1.6000330 | 1.4700560 | | -8.1 | +/-50 |
| Butylbenzylphthalate | A | 0.20000 | 0.2 | 0.4562763 | 0.5661650 | | -0.04 | +/-50 |
| Benzo(a)anthracene | A | 0.20000 | 0.2 | 1.3399020 | 1.4779360 | | 10.3 | +/-50 |
| 3,3'-Dichlorobenzidine | A | 0.60000 | 0.7 | 0.3826468 | 0.4574063 | | 19.5 | +/-50 |
| Chrysene | A | 0.20000 | 0.2 | 1.2879040 | 1.3681940 | | 6.2 | +/-50 |
| bis(2-Ethylhexyl)phthalate | A | 0.20000 | 0.2 | 0.5161185 | 0.5533322 | | -9.4 | +/-50 |
| Di-n-Octylphthalate | A | 0.20000 | 0.2 | 1.0531830 | 1.0842520 | | 3.0 | +/-50 |
| Benzofluoranthenes, Total | A | 0.40000 | 0.5 | 1.2927770 | 1.6825760 | | 30.2 | +/-50 |
| Benzo(a)pyrene | A | 0.20000 | 0.2 | 1.1338150 | 1.2383290 | | 9.2 | +/-50 |
| Indeno(1,2,3-cd)pyrene | A | 0.20000 | 0.09 | 1.4272450 | 0.6443019 | | -54.9 | +/-50 * |
| Dibenzo(a,h)anthracene | A | 0.20000 | 0.09 | 1.2122070 | 0.5531058 | | -54.4 | +/-50 * |
| Benzo(g,h,i)perylene | A | 0.20000 | 0.07 | 1.2448130 | 0.4485477 | | -64.0 | +/-50 * |
| 1-Methylnaphthalene | A | 0.20000 | 0.2 | 0.7274101 | 0.7061143 | | -2.9 | +/-50 |
| 2-Fluorophenol | A | 0.30000 | 0.216 | 1.0846110 | 0.7806523 | | -28.0 | +/-50 |
| Phenol-d5 | A | 0.30000 | 0.236 | 1.5399100 | 1.2138220 | | -21.2 | +/-50 |

* Values outside of QC limits



**LOW-CONCENTRATION
CONTINUING CALIBRATION CHECK
EPA 8270E**

| | | | |
|----------------|----------------------------------|-------------------|------------------------|
| Laboratory: | <u>Analytical Resources, LLC</u> | SDG: | <u>23A0180</u> |
| Client: | <u>Anchor QEA, LLC</u> | Project: | <u>AOC5 MR Phase 1</u> |
| Instrument ID: | <u>NT14</u> | Calibration: | <u>GC00033</u> |
| Lab File ID: | <u>NT1423022850.D</u> | Calibration Date: | <u>02/28/2023</u> |
| Sequence: | <u>SLB0374</u> | Injection Date: | <u>03/02/23</u> |
| Lab Sample ID: | <u>SLB0374-LCV5</u> | Injection Time: | <u>07:04</u> |
| Sequence Name: | <u>ABN 0.2</u> | | |

| COMPOUND | TYPE | CONC. (ug/mL) | | RESPONSE FACTOR (RRF) | | | % DRIFT/DIFF | |
|------------------------|------|---------------|-------|-----------------------|-----------|-----|--------------|-------|
| | | STD | CCV | ICAL | CCV | MIN | CCV | LIMIT |
| 2-Chlorophenol-d4 | A | 0.30000 | 0.281 | 1.3093910 | 1.2282570 | | -6.2 | +/-50 |
| 1,2-Dichlorobenzene-d4 | A | 0.20000 | 0.194 | 0.9857584 | 0.9553175 | | -3.1 | +/-50 |
| Nitrobenzene-d5 | A | 0.20000 | 0.205 | 0.3912861 | 0.4006080 | | 2.4 | +/-50 |
| 2-Fluorobiphenyl | A | 0.20000 | 0.208 | 1.5568580 | 1.6189090 | | 4.0 | +/-50 |
| 2,4,6-Tribromophenol | A | 0.30000 | 0.225 | 0.1850894 | 0.1608141 | | -25.1 | +/-50 |
| p-Terphenyl-d14 | A | 0.20000 | 0.180 | 1.2319340 | 1.1057450 | | -10.2 | +/-50 |

* Values outside of QC limits

* Values outside of QC limits

Data File: \\target\share\chem3\nt14,1\20230228 JB\NT1423022850.D

Date: 02-MAR-2023 07:04

Client ID:

Sample Info: SLB0374-LCWS

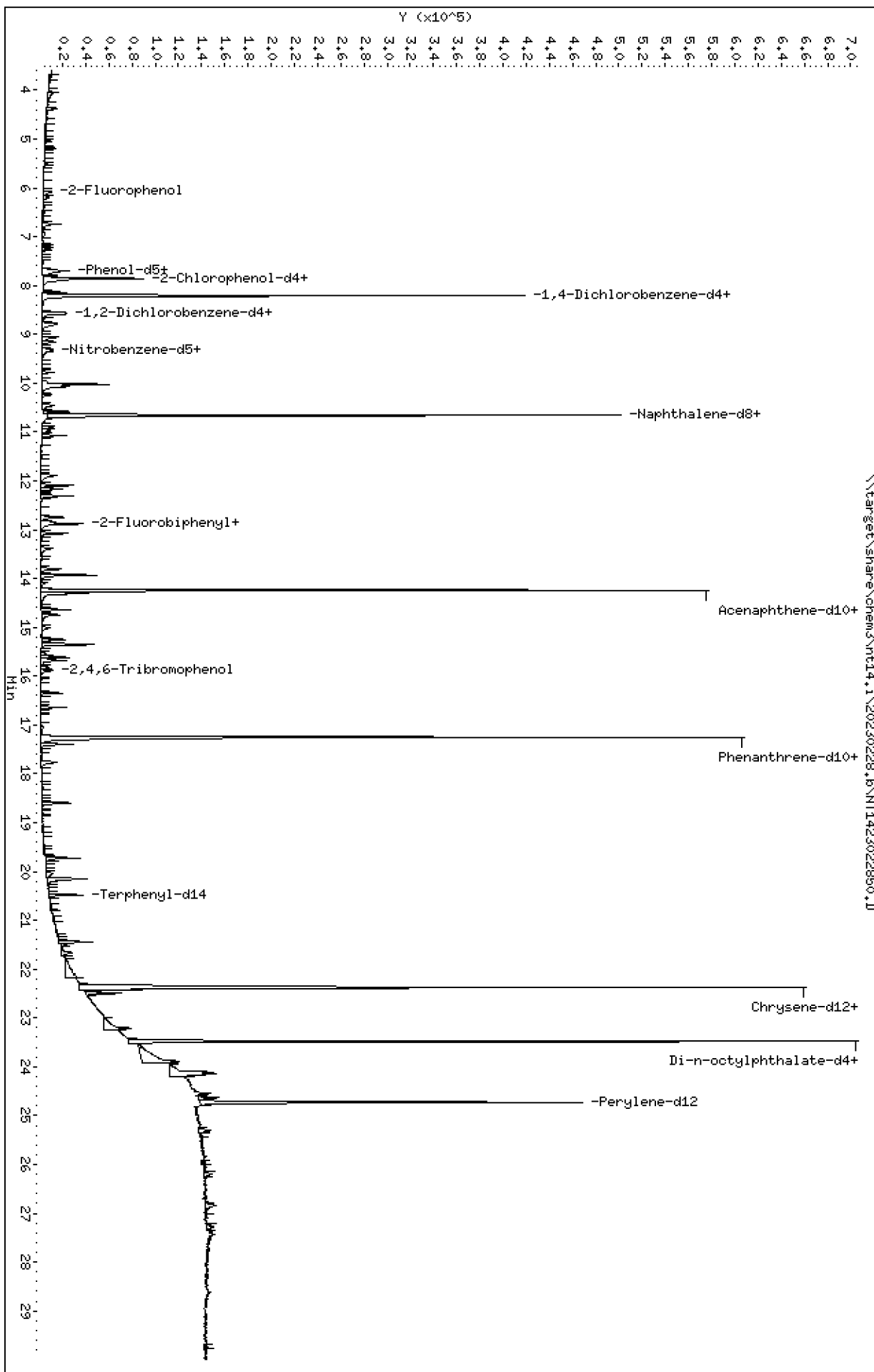
Column phase: ZB-5msi

Instrument: nt14,1

Operator: JGR

Column diameter: 0.25

Page 1



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

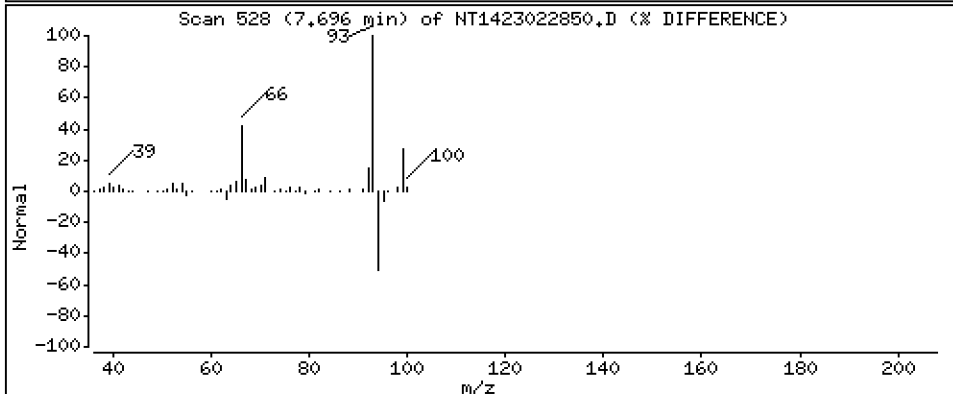
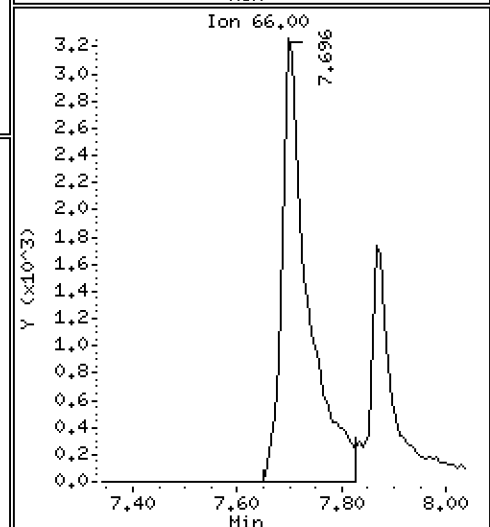
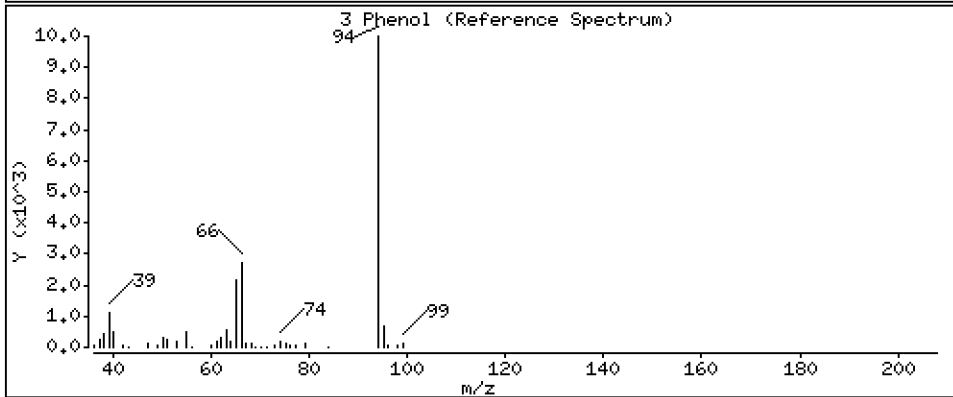
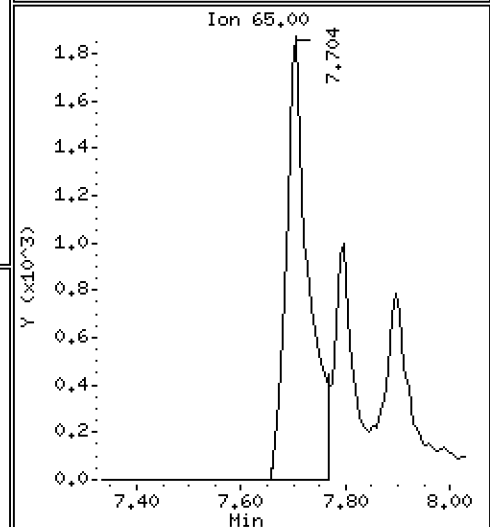
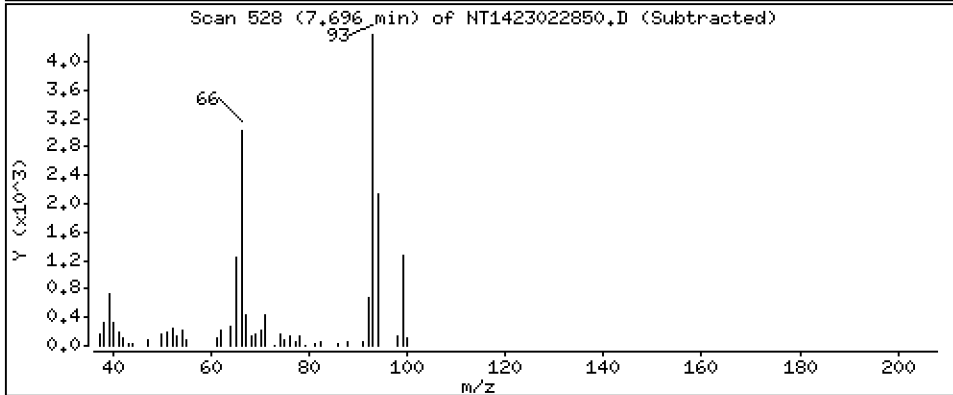
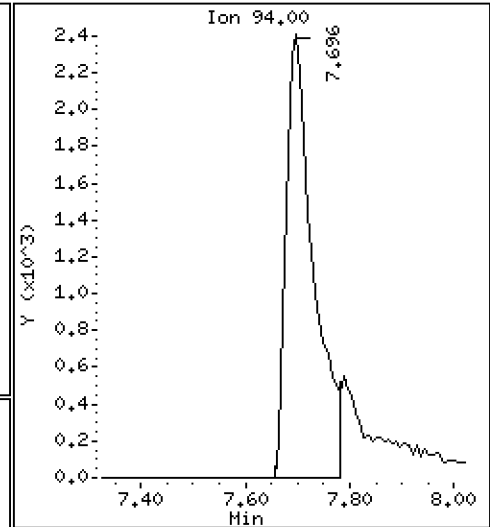
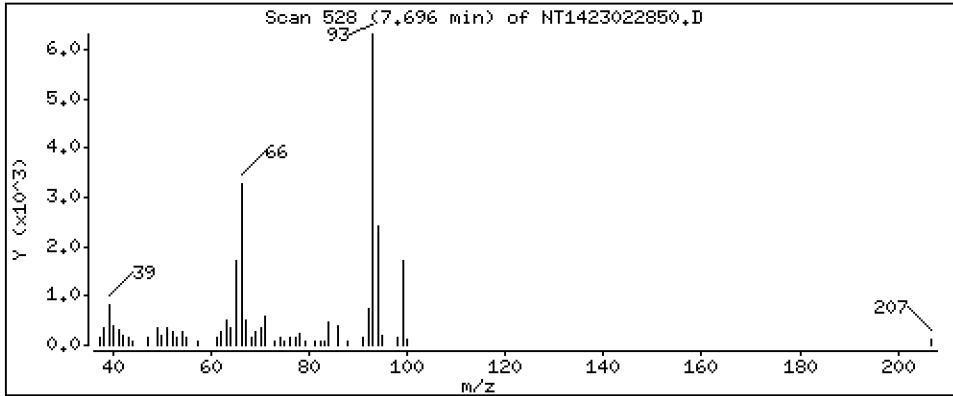
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 0,1665 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

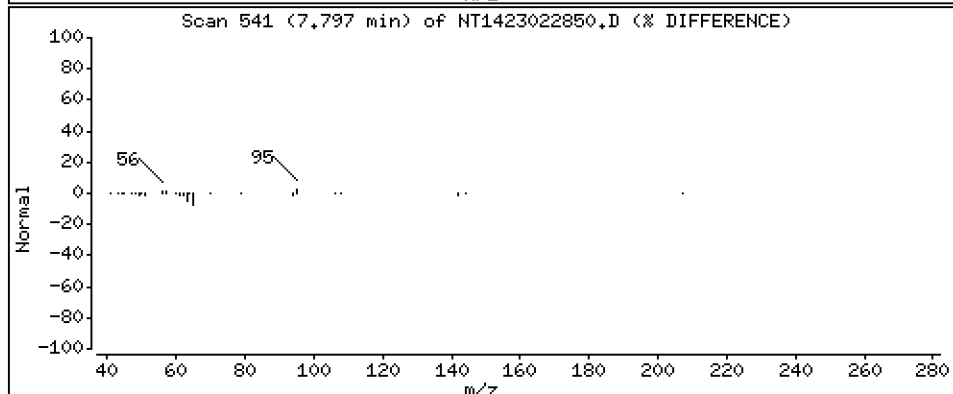
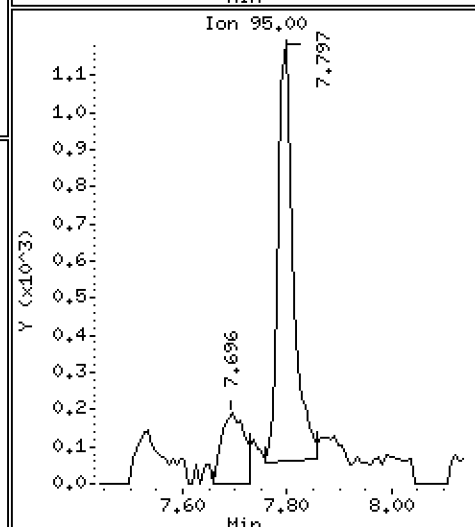
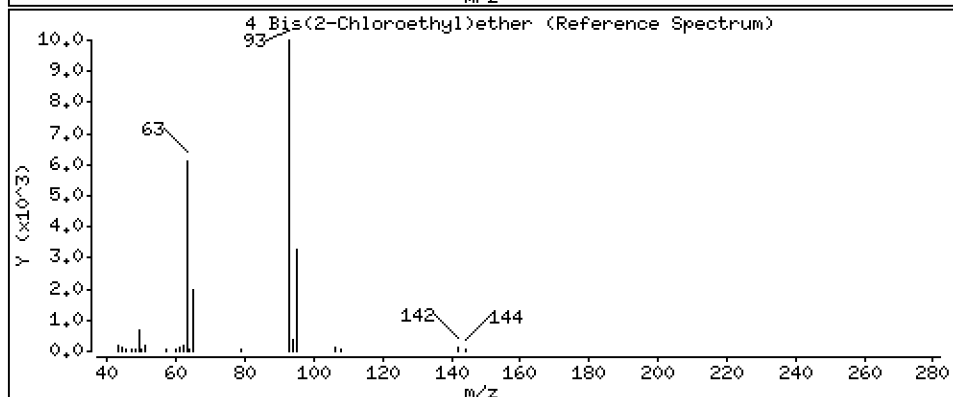
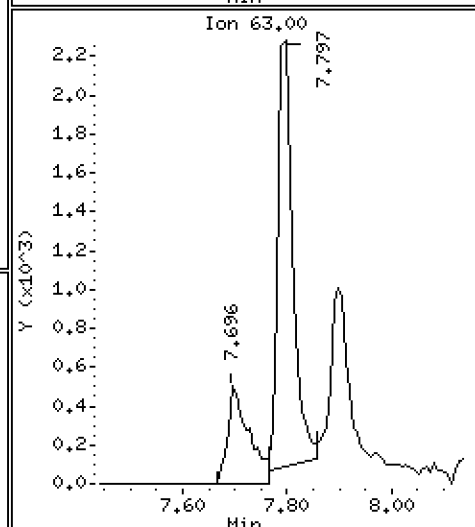
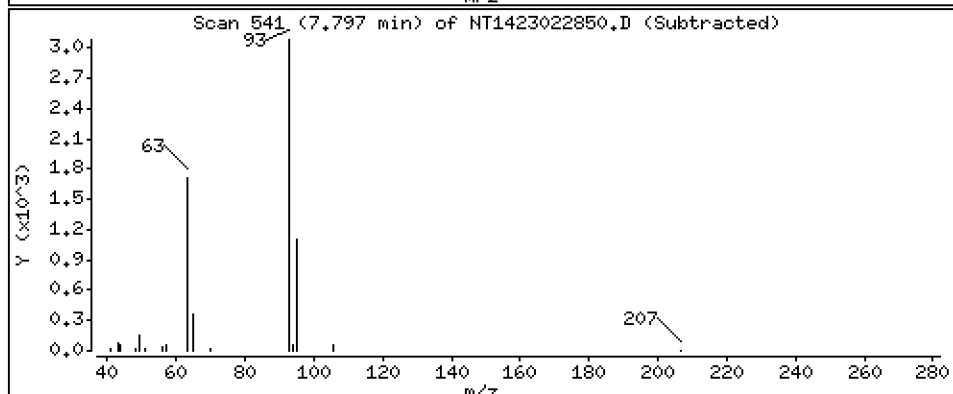
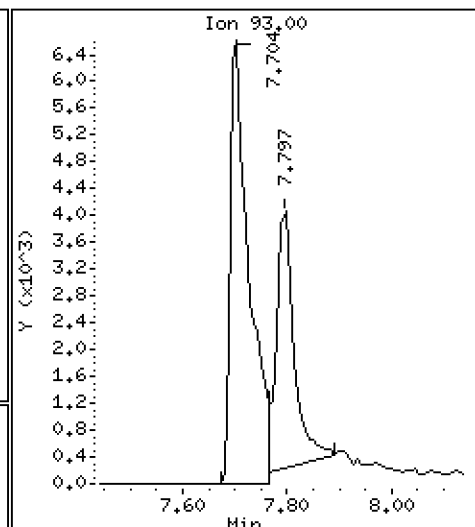
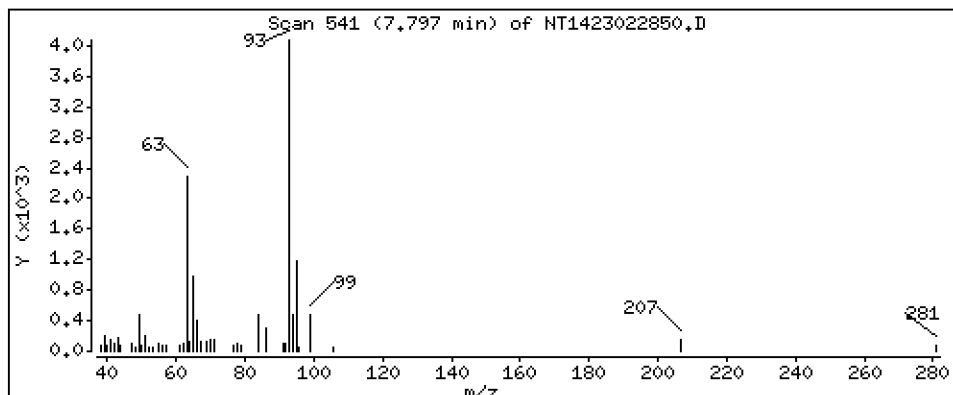
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

4 Bis(2-Chloroethyl)ether

Concentration: 0,2366 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

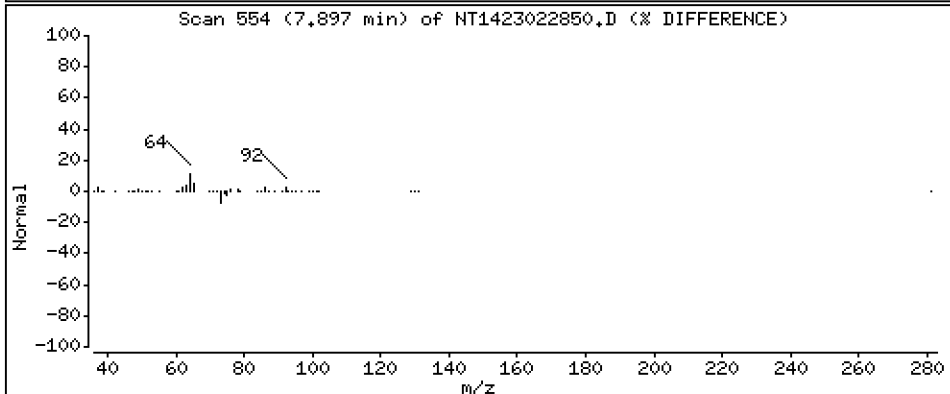
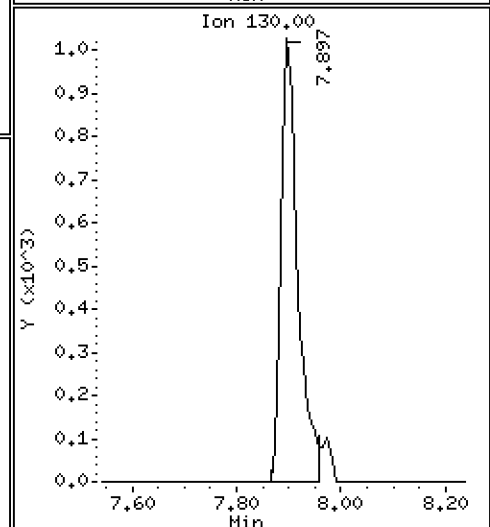
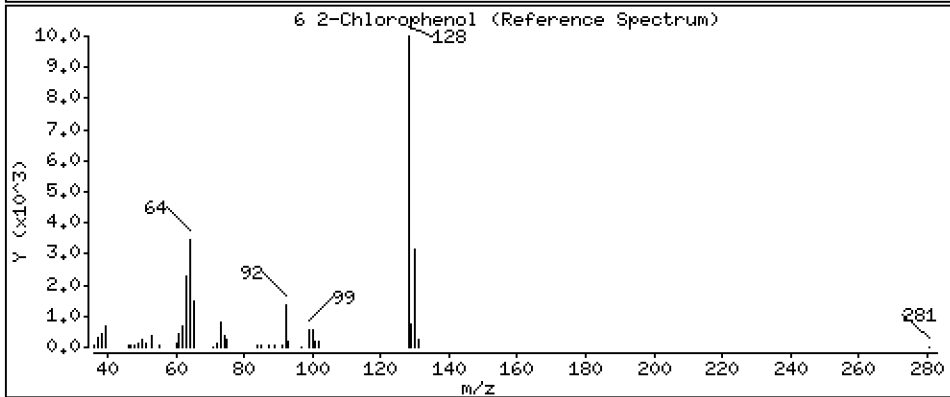
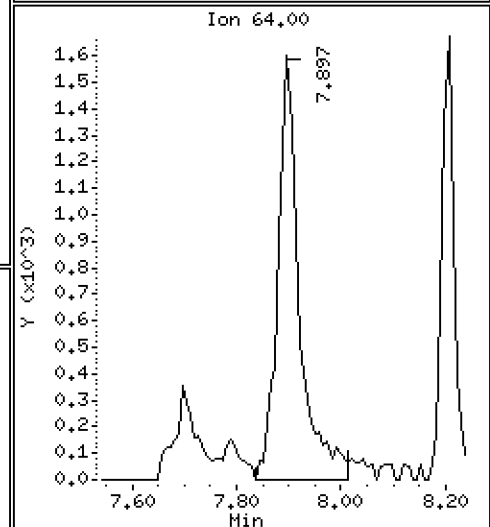
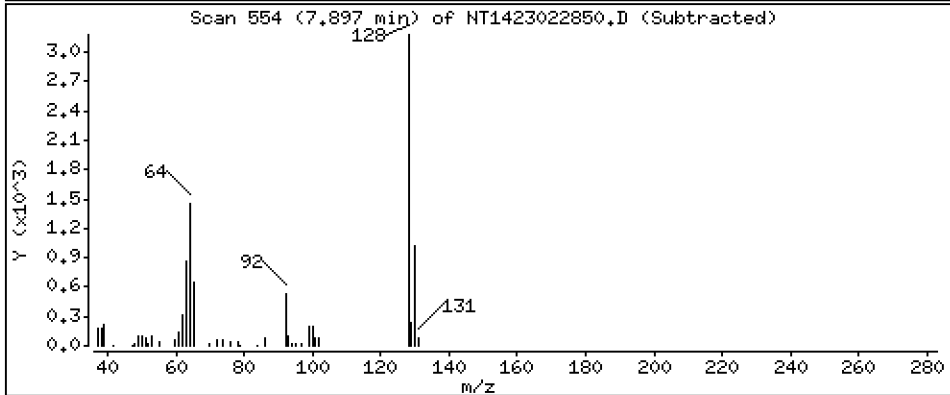
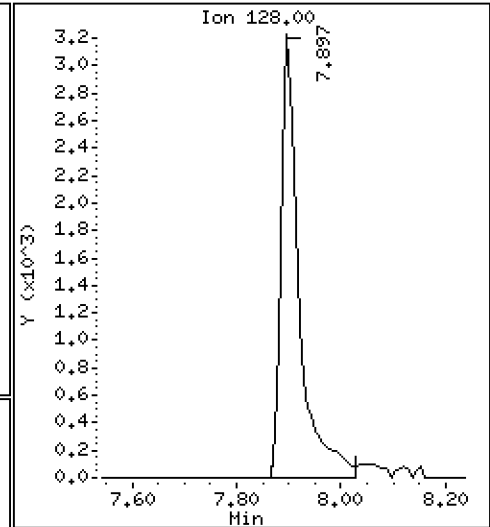
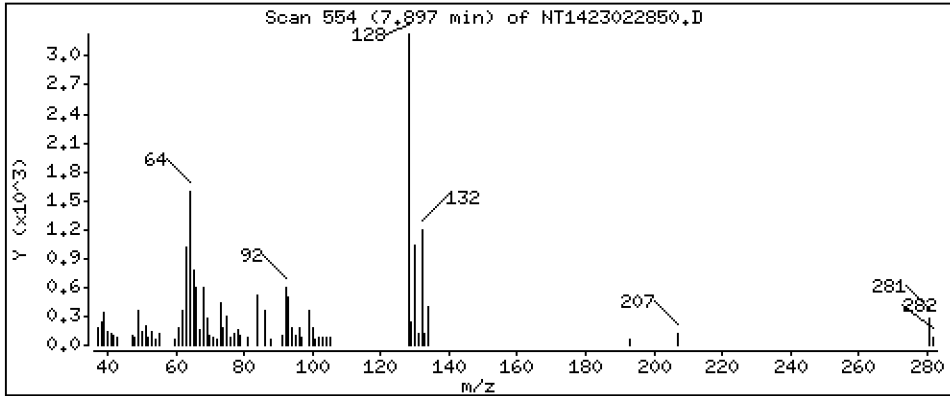
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 0,2081 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

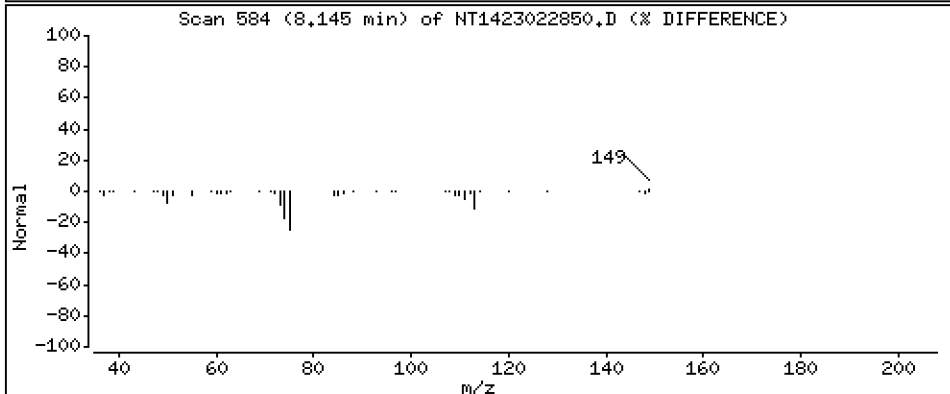
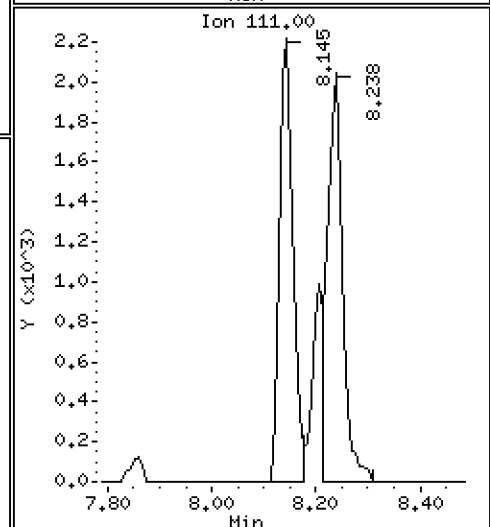
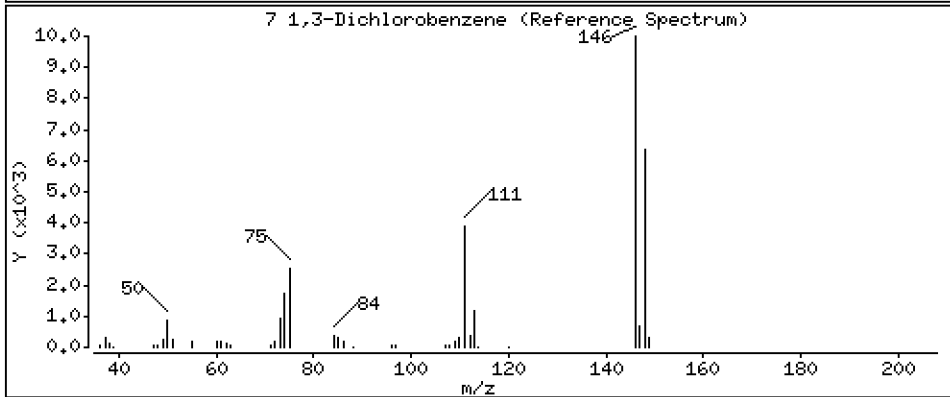
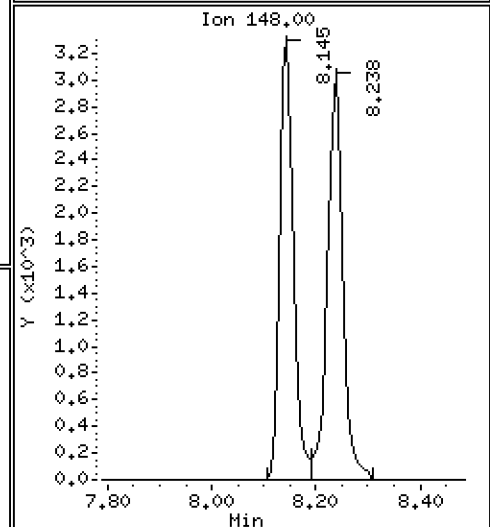
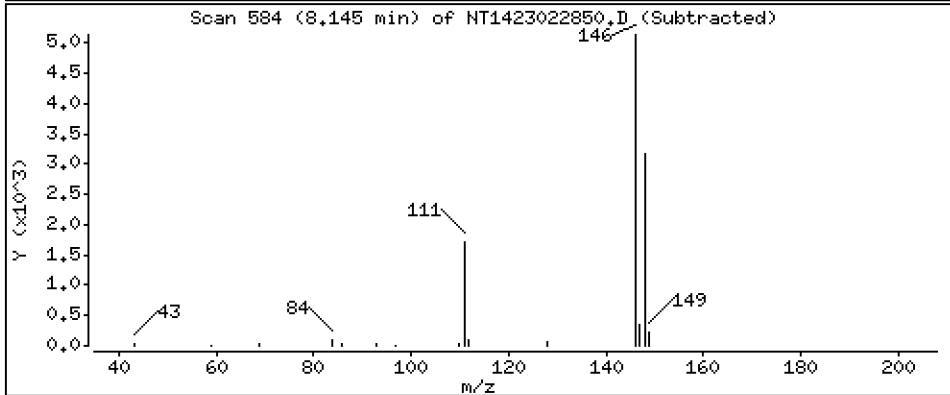
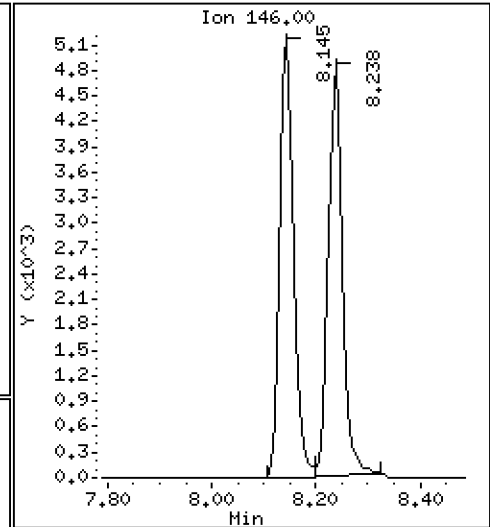
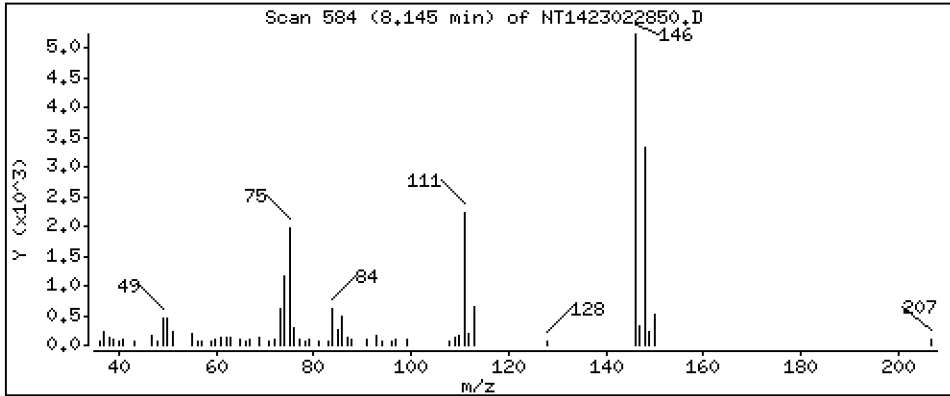
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

7 1,3-Dichlorobenzene

Concentration: 0.2141 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

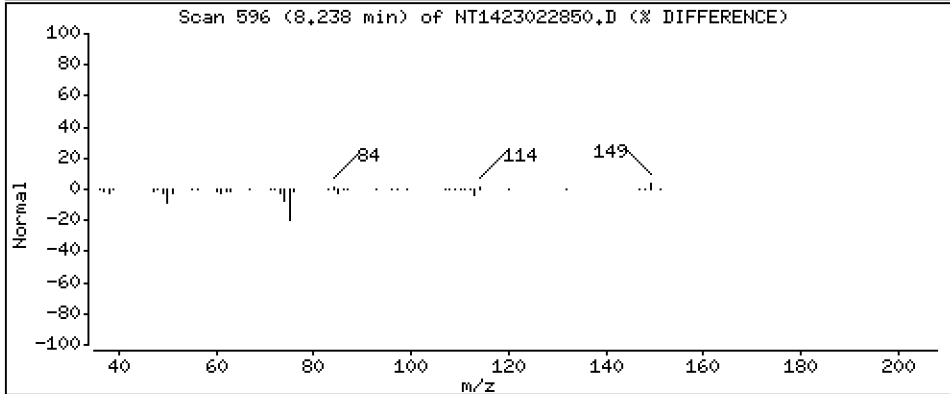
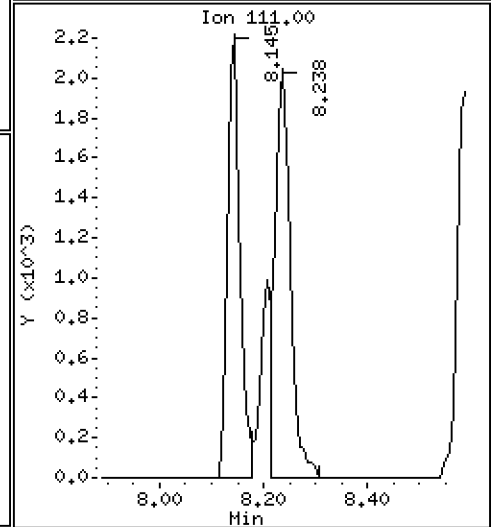
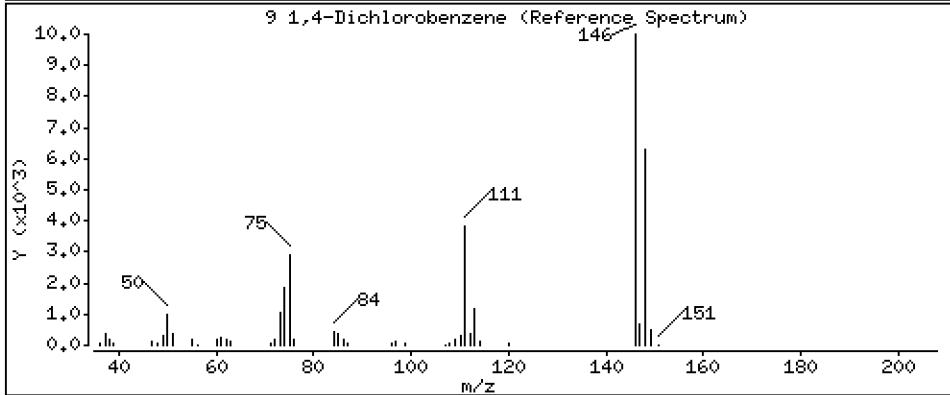
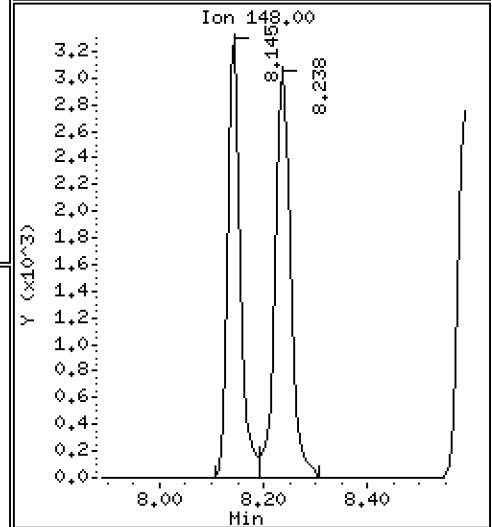
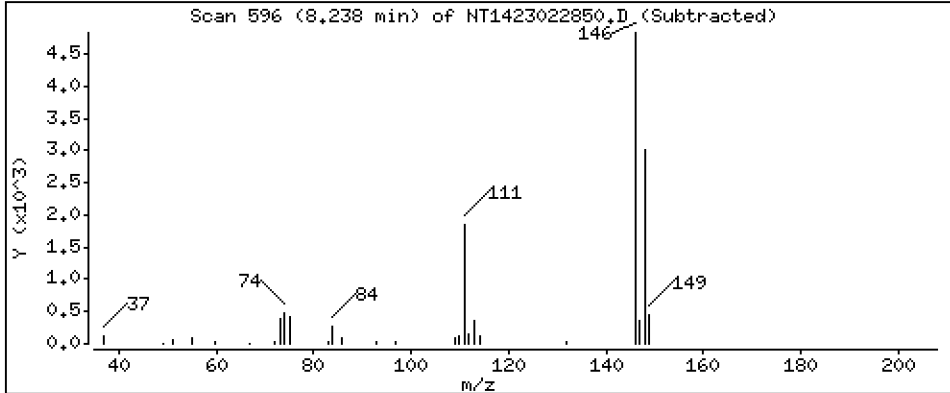
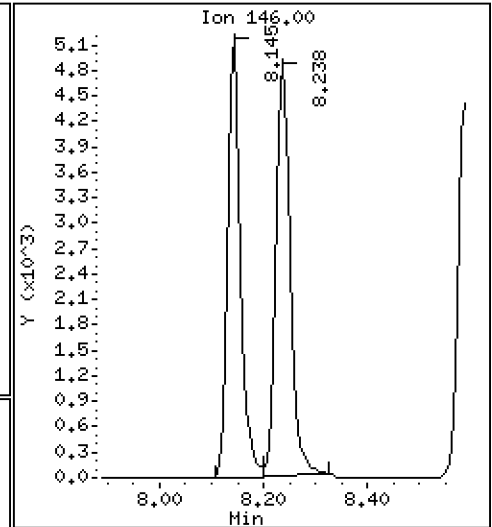
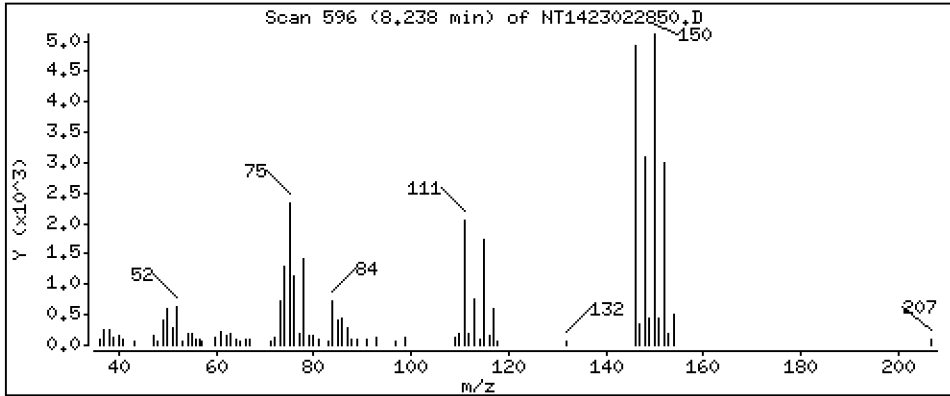
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

9 1,4-Dichlorobenzene

Concentration: 0.2080 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

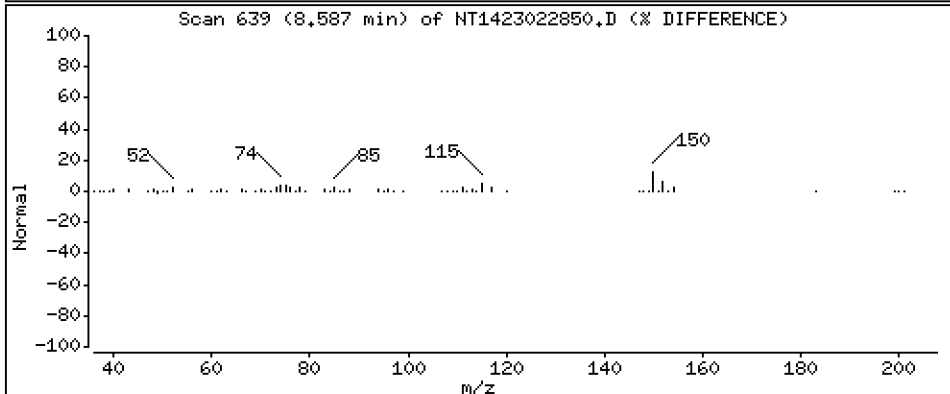
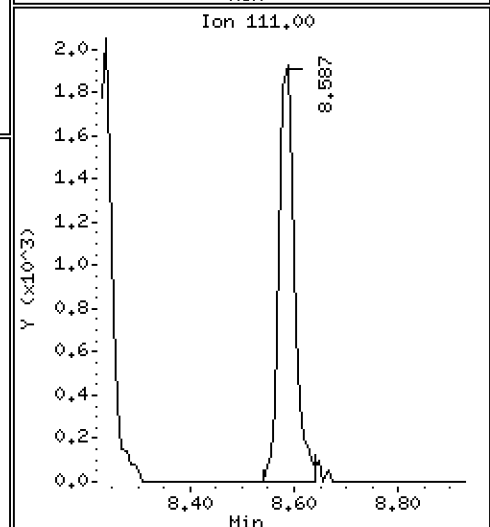
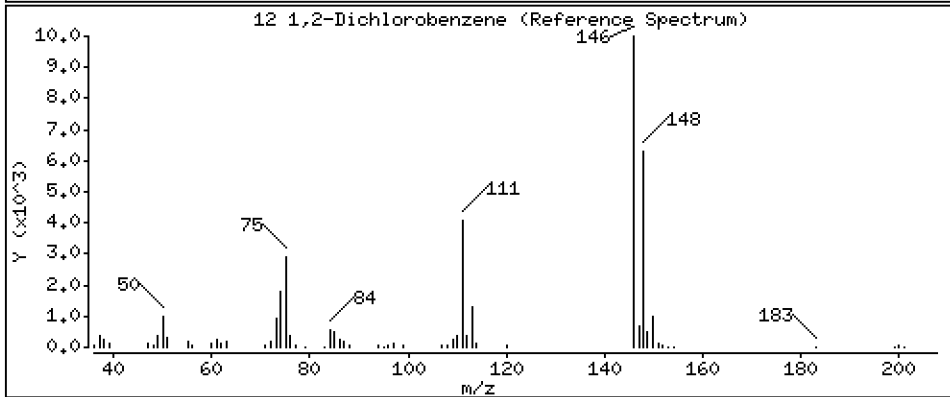
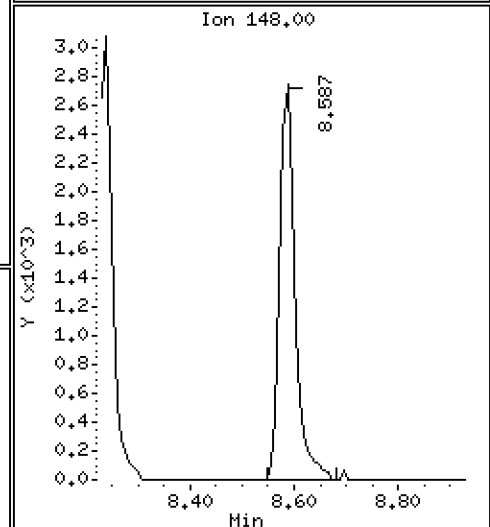
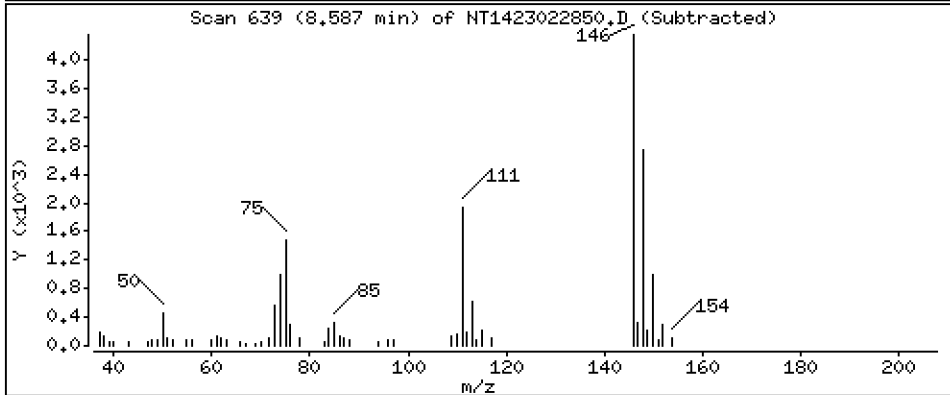
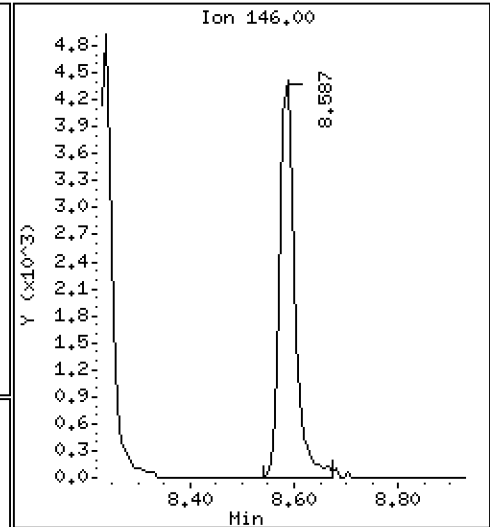
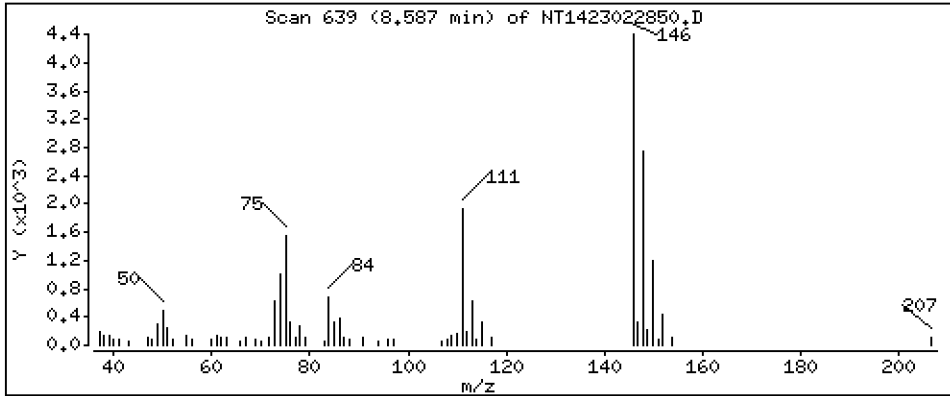
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

12 1,2-Dichlorobenzene

Concentration: 0,2109 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

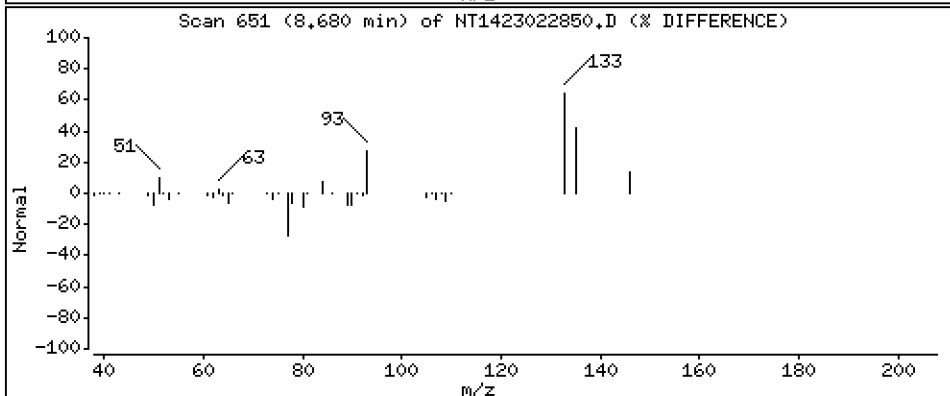
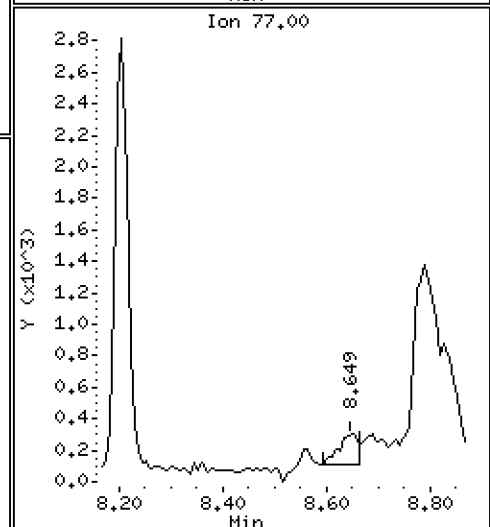
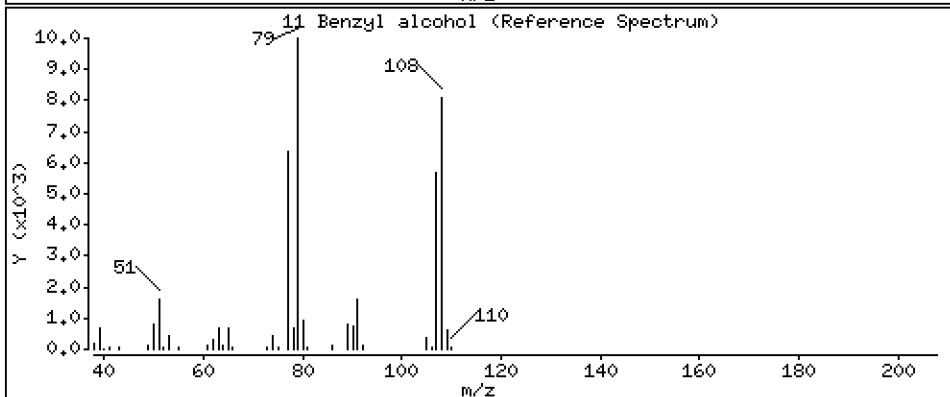
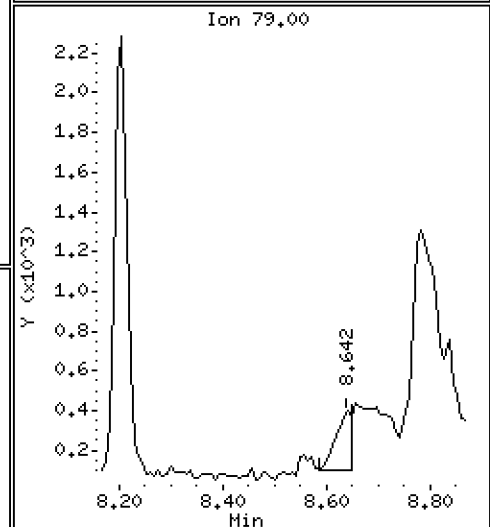
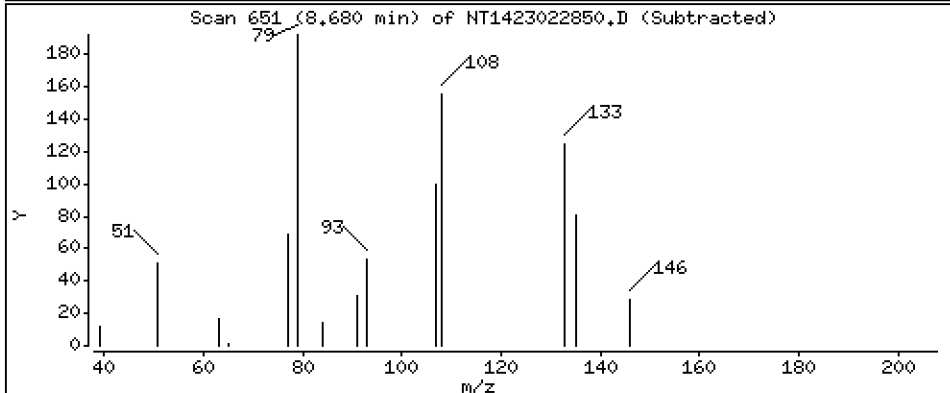
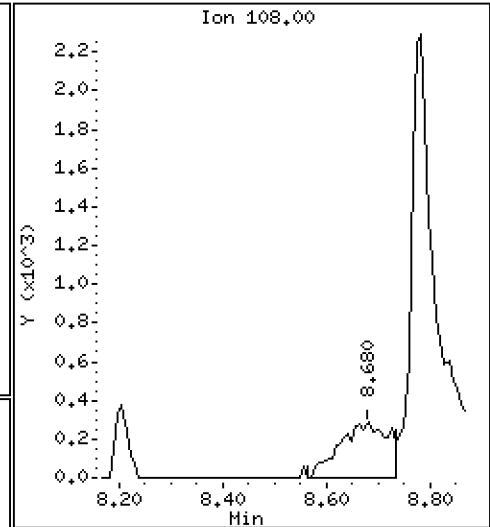
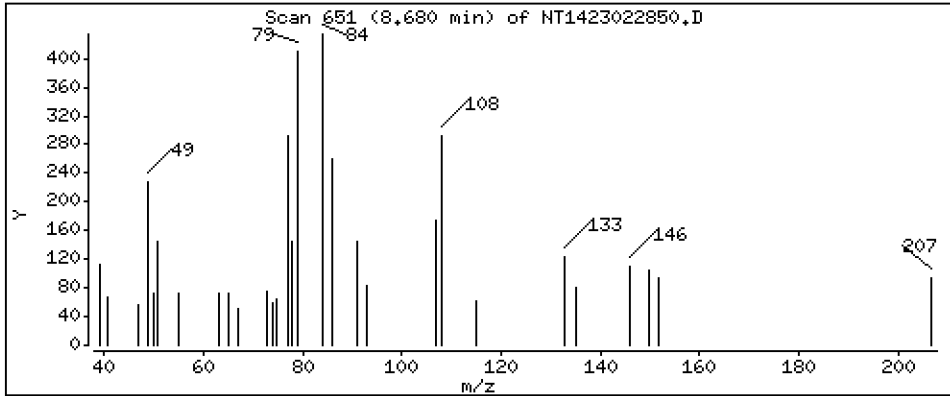
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

11 Benzyl alcohol

Concentration: 0,08203 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

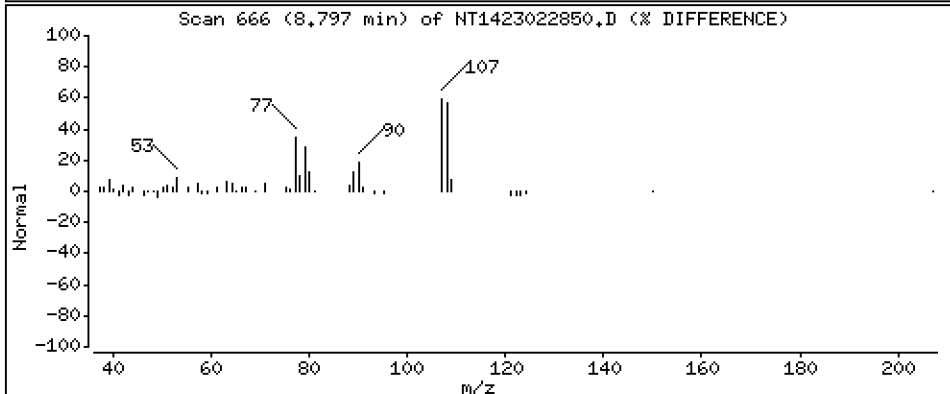
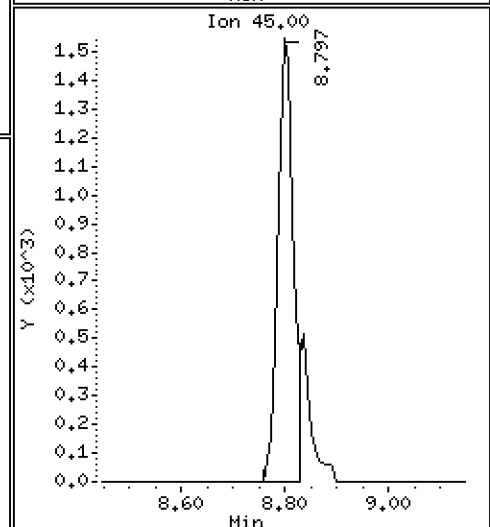
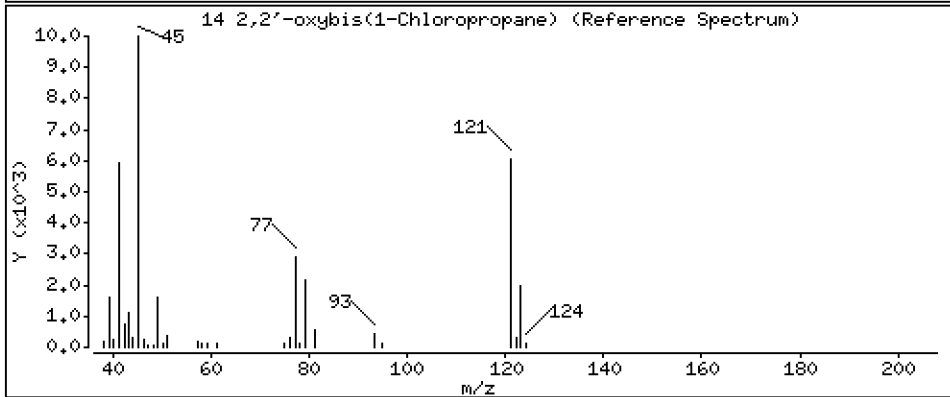
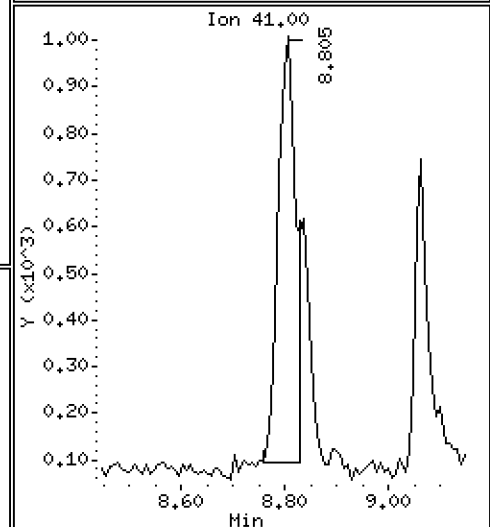
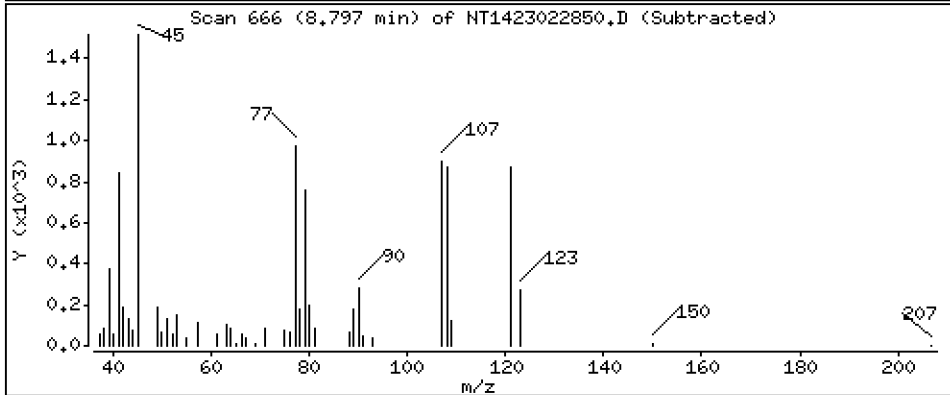
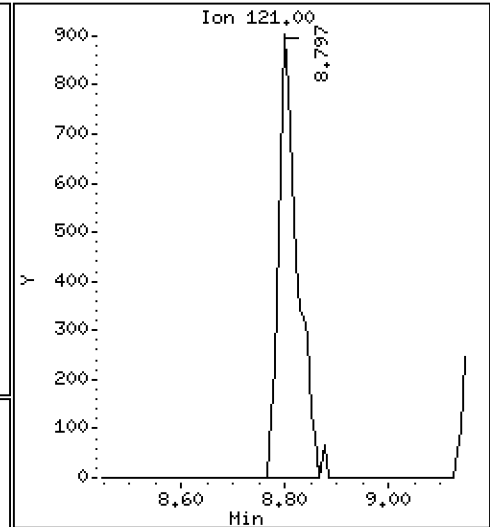
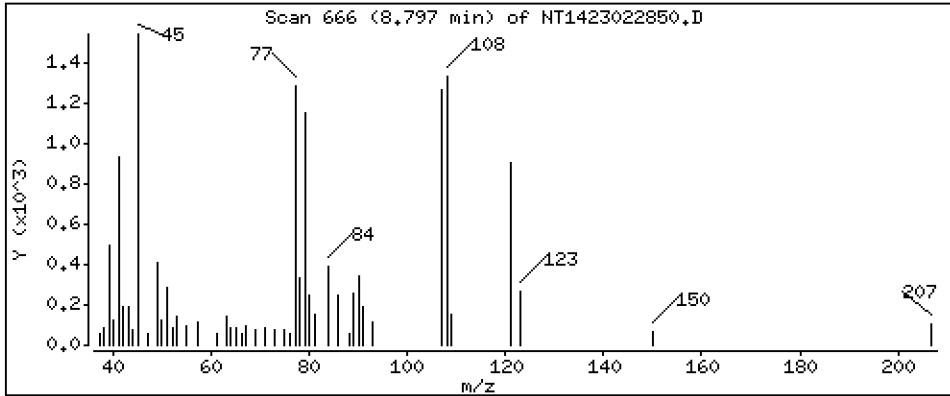
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 0,2023 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

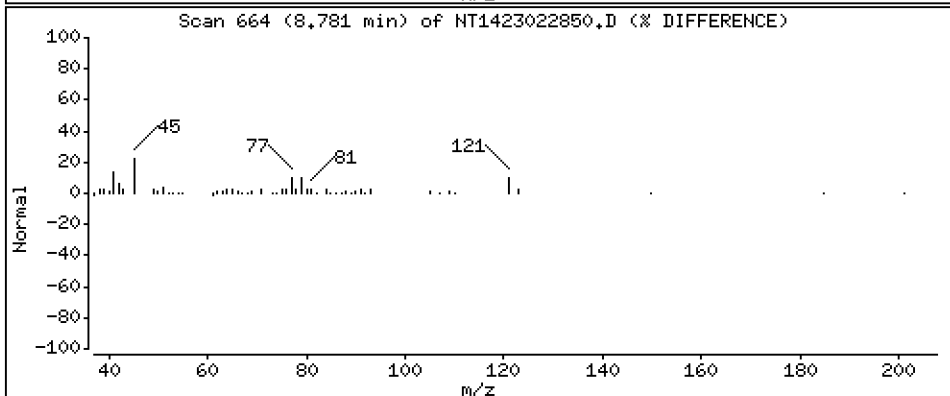
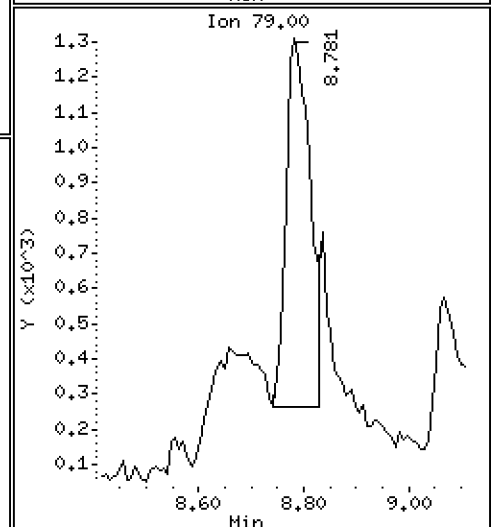
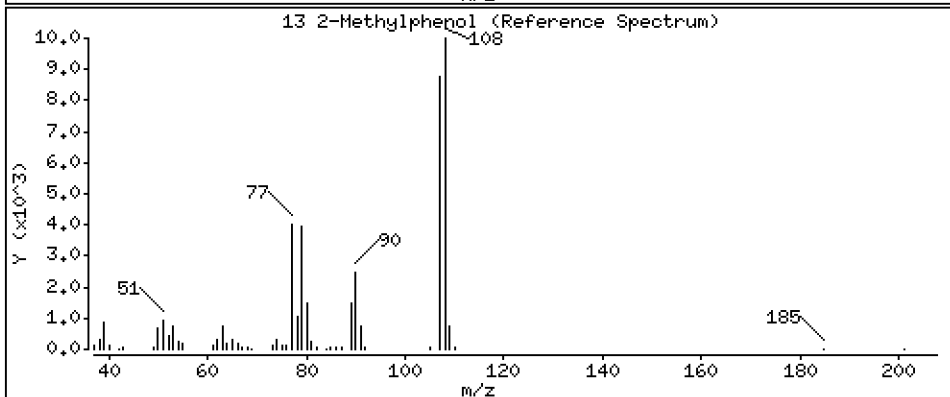
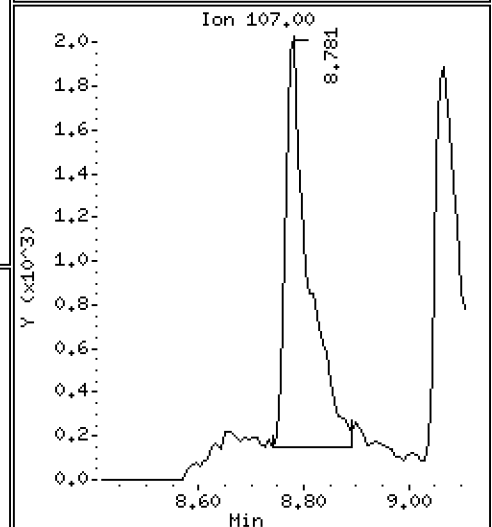
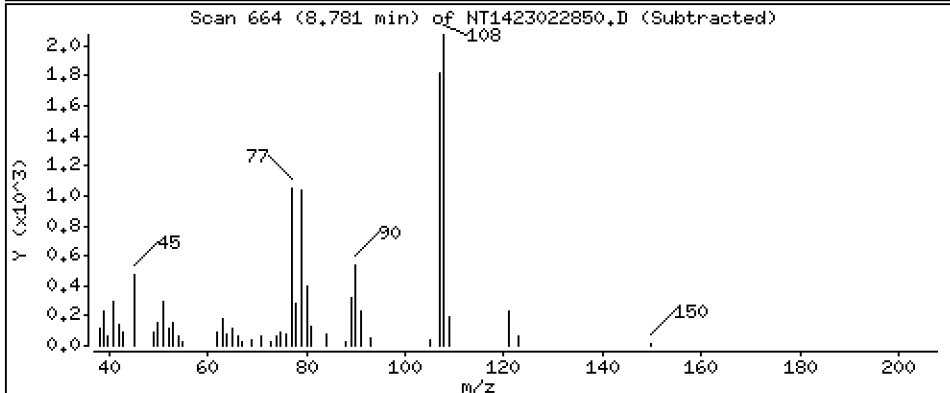
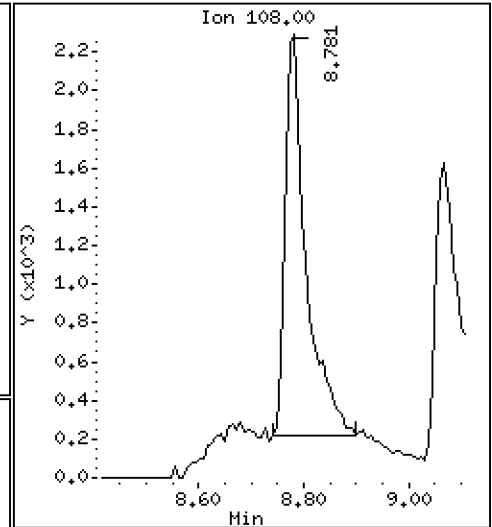
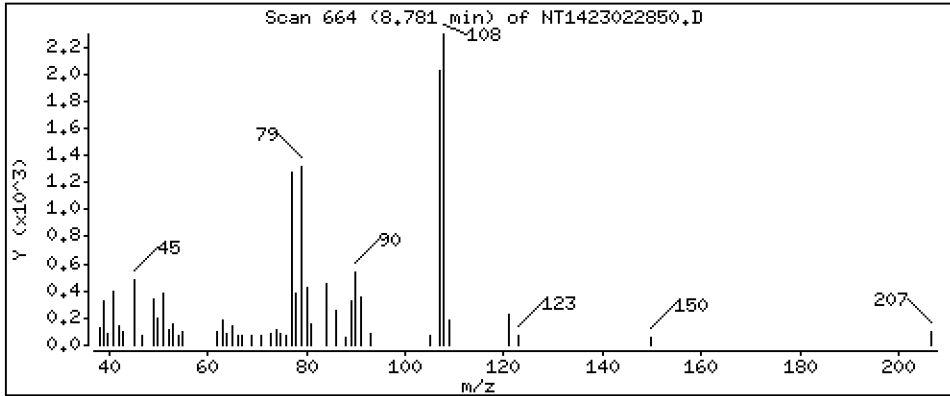
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

13 2-Methylphenol

Concentration: 0.1738 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

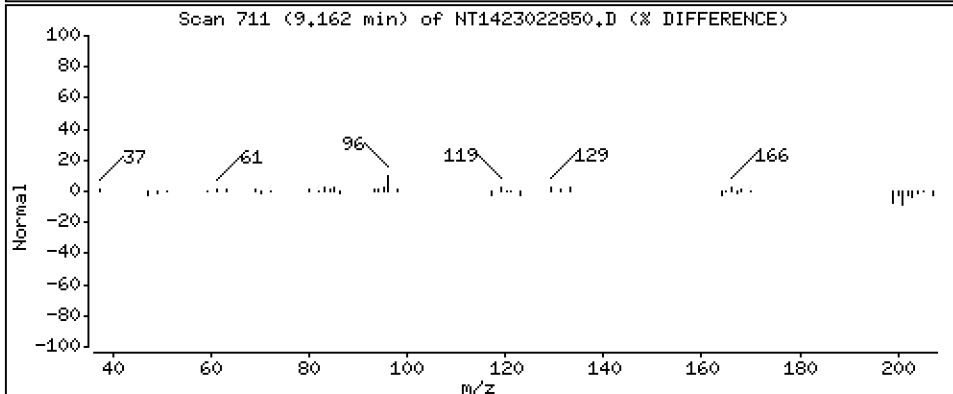
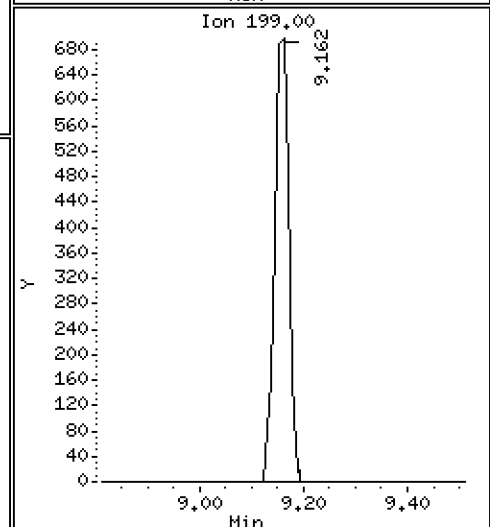
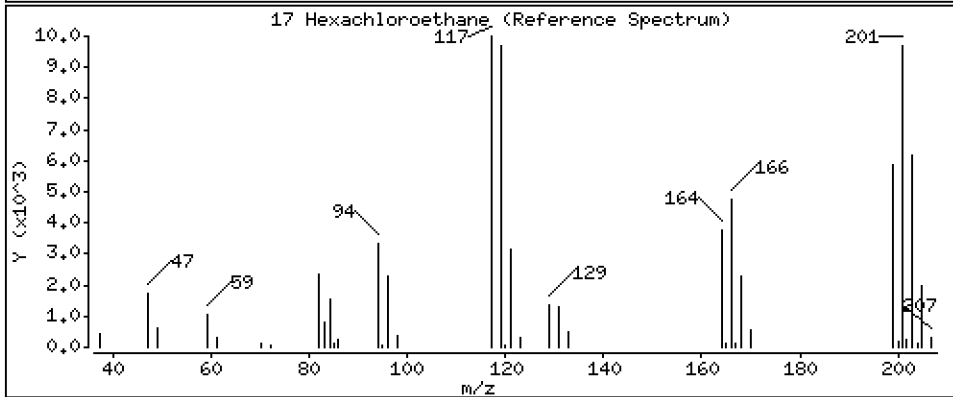
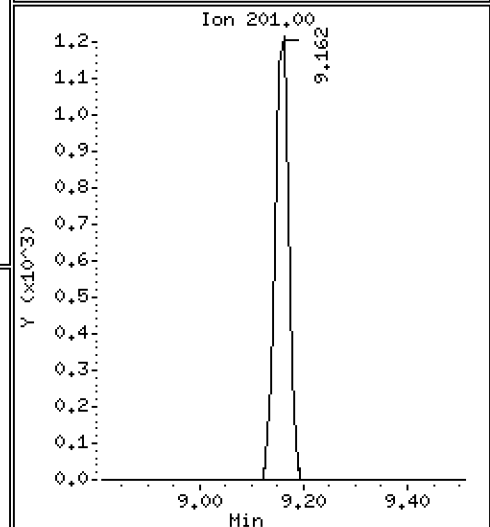
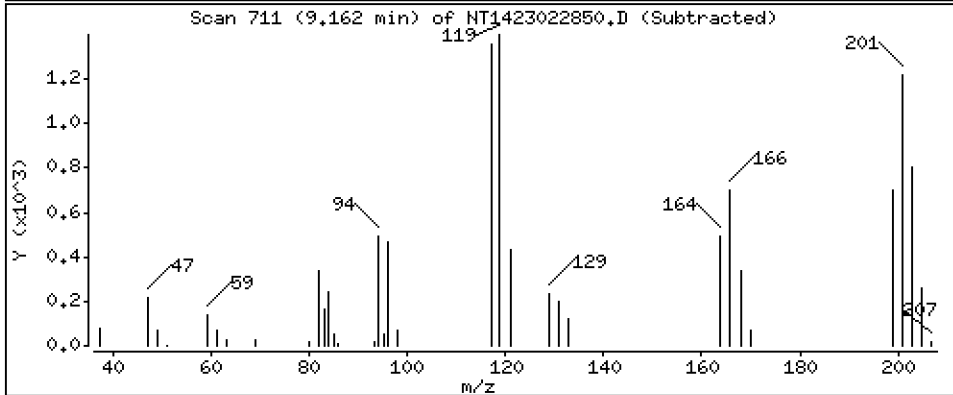
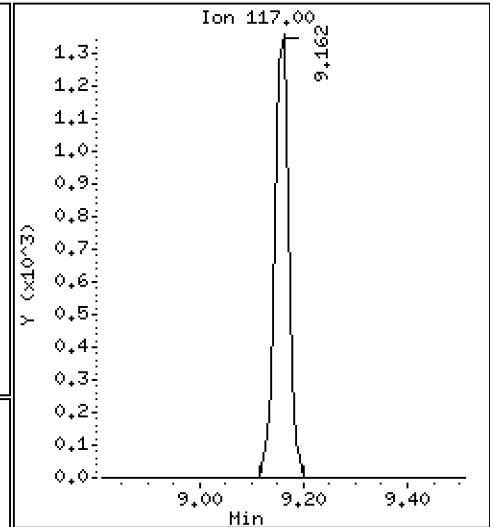
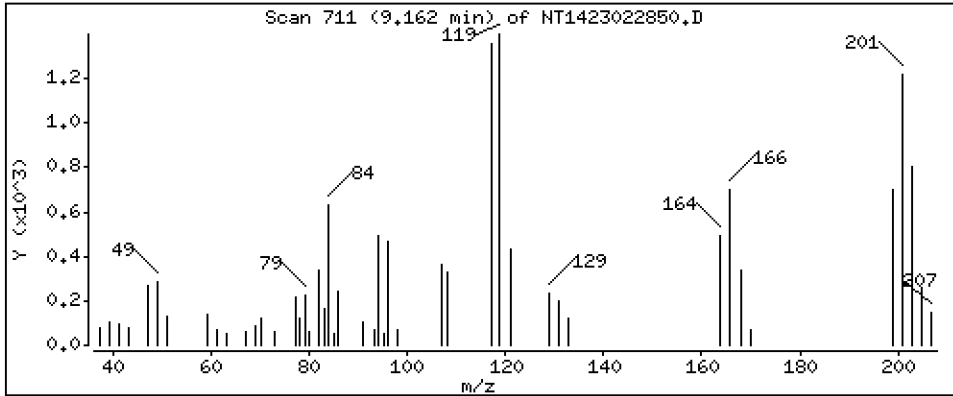
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

17 Hexachloroethane

Concentration: 0.1509 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

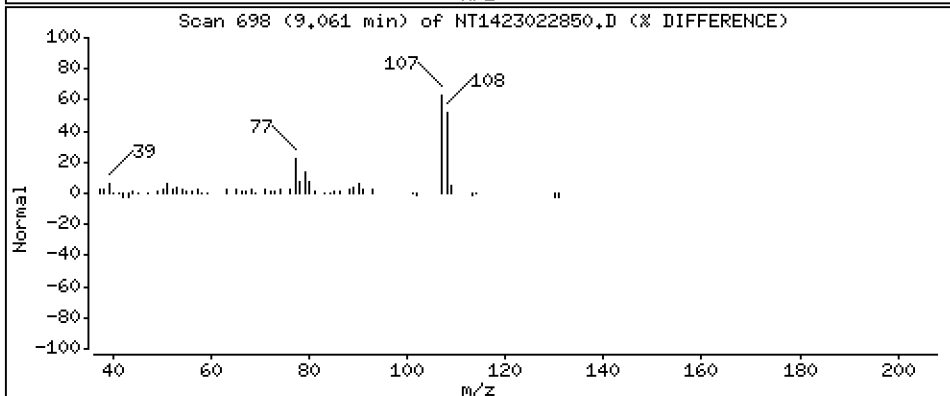
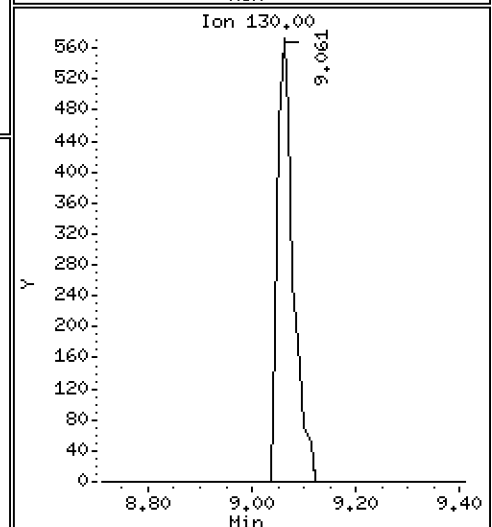
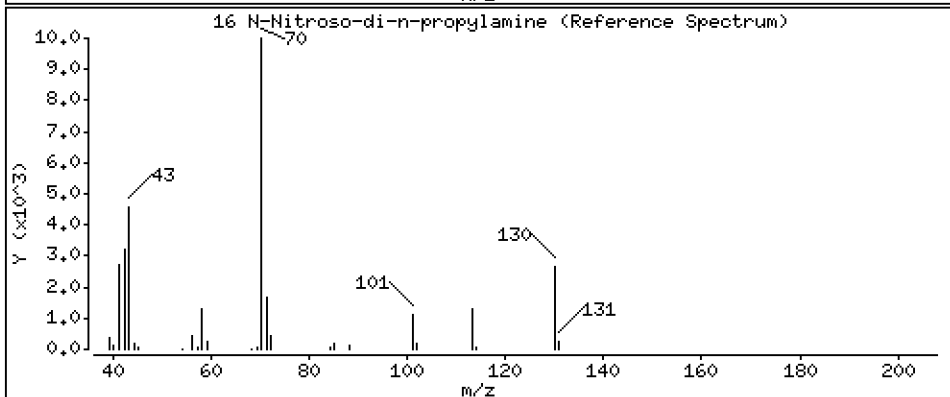
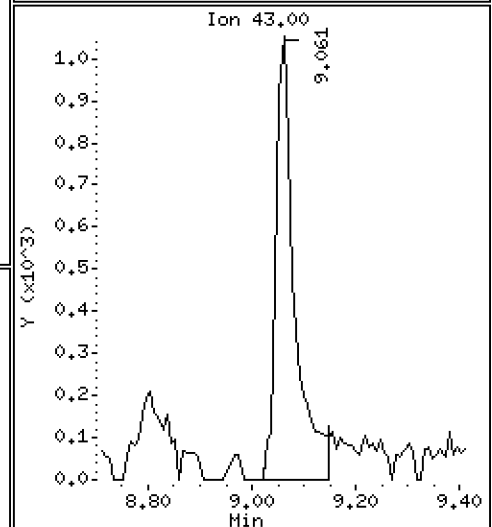
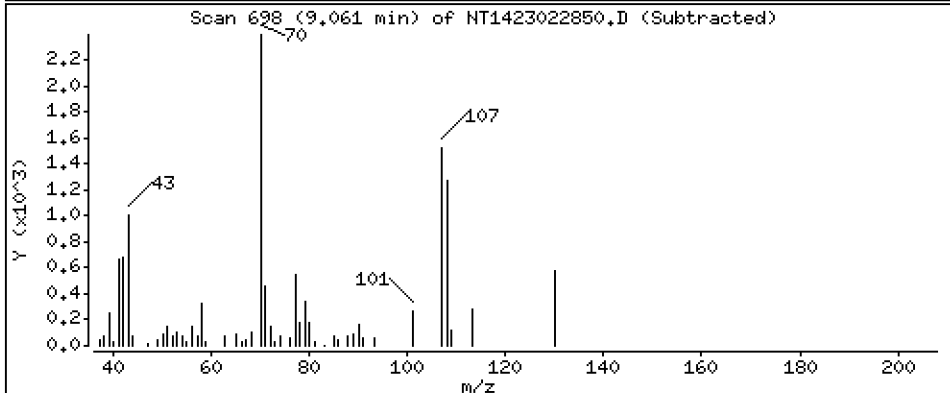
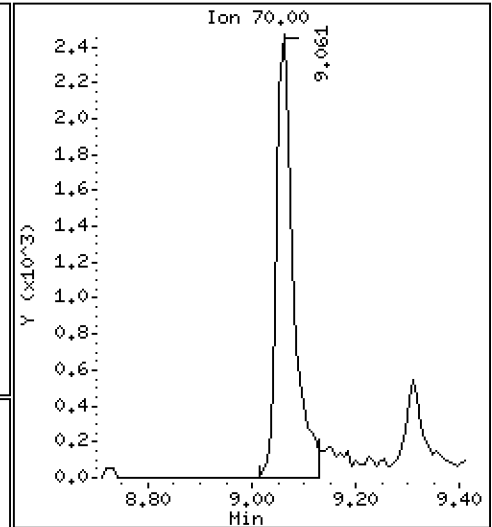
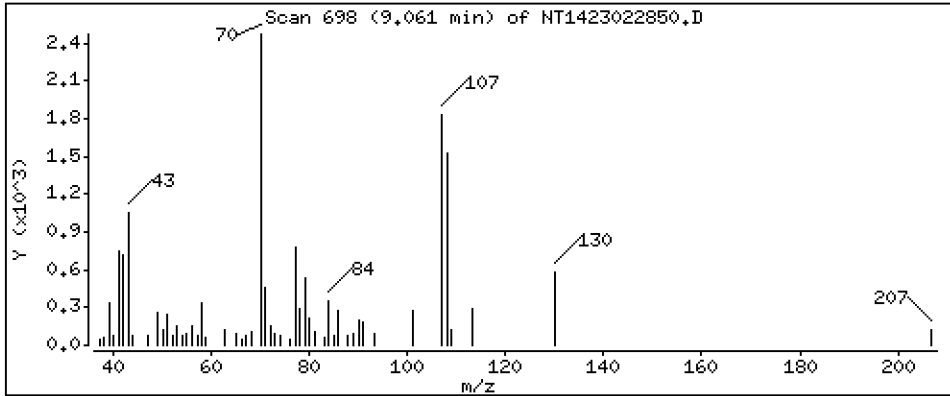
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

16 N-Nitroso-di-n-propylamine

Concentration: 0.2121 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

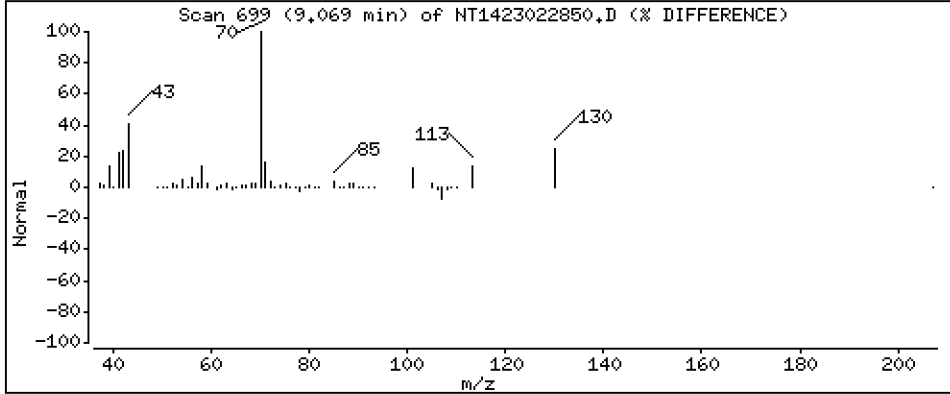
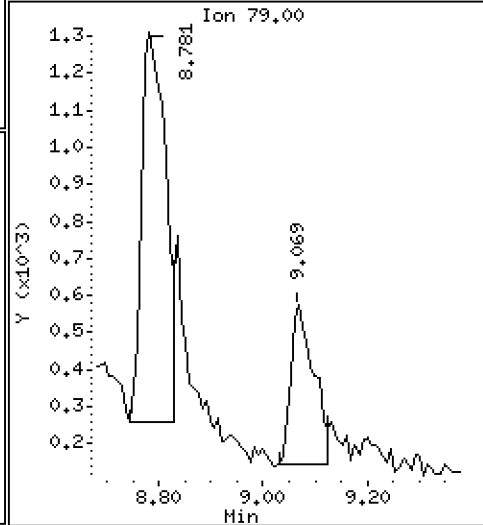
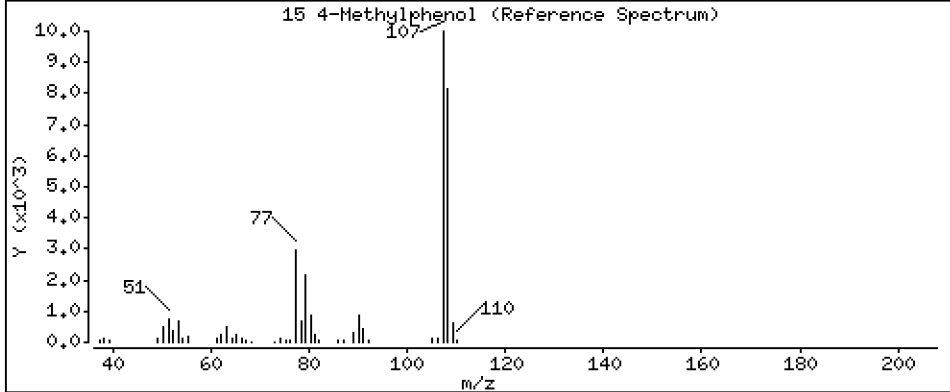
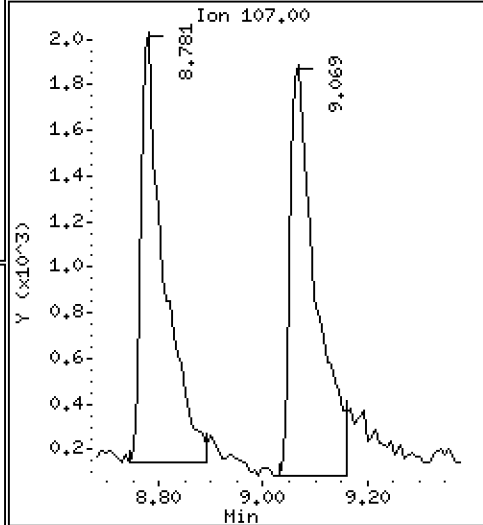
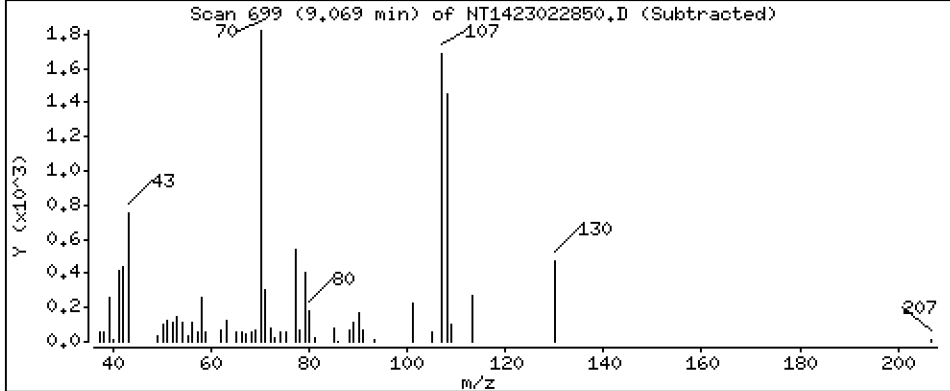
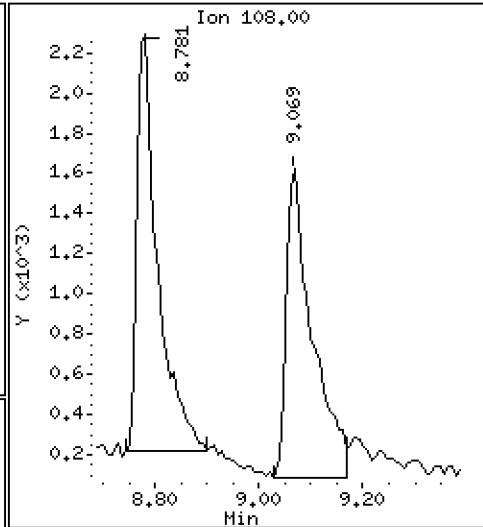
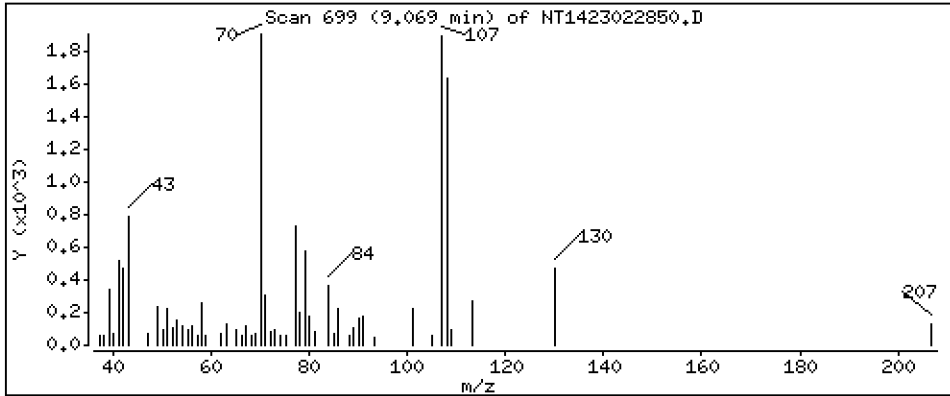
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 0.1399 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

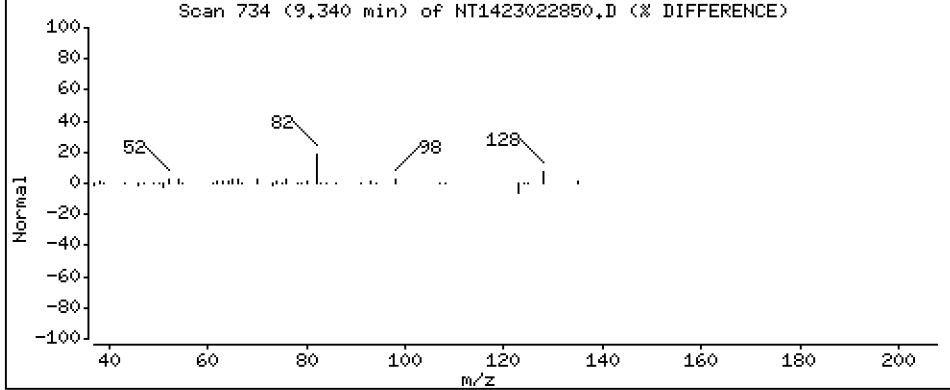
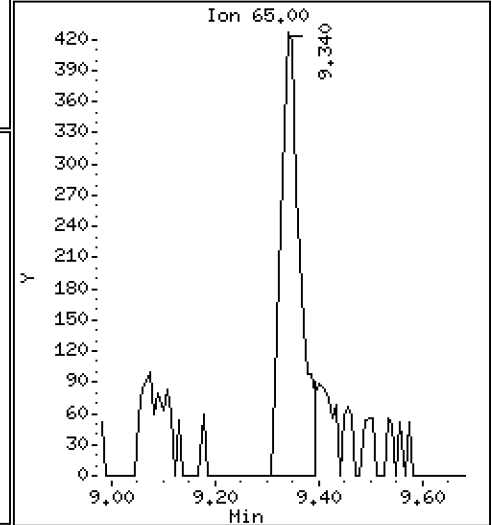
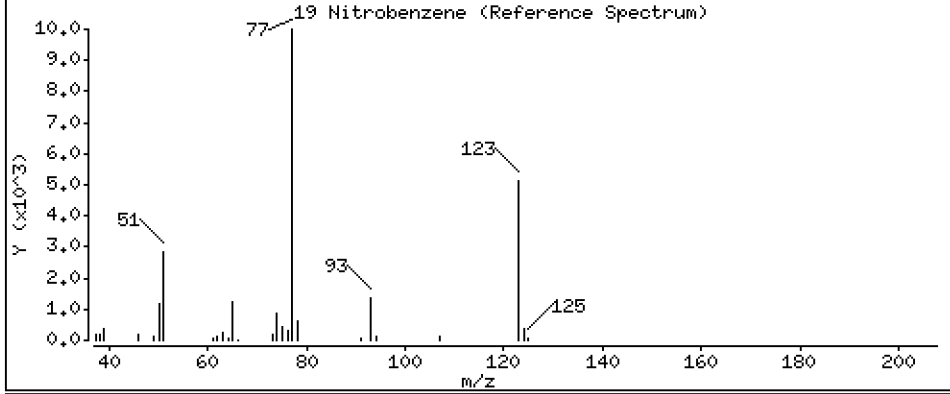
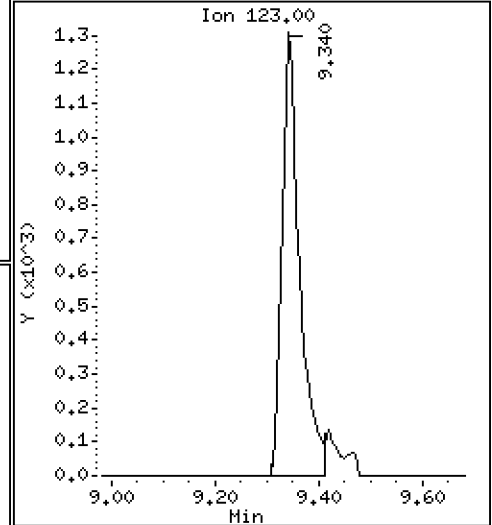
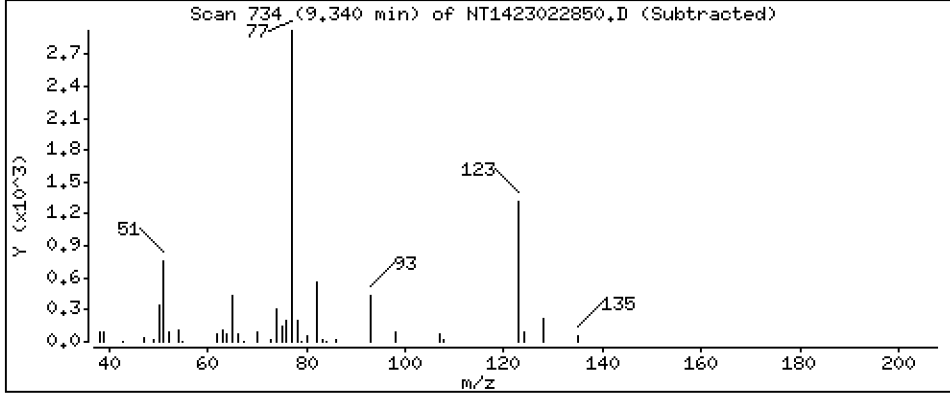
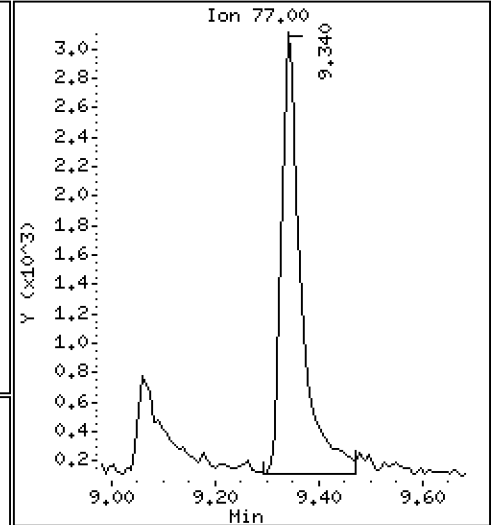
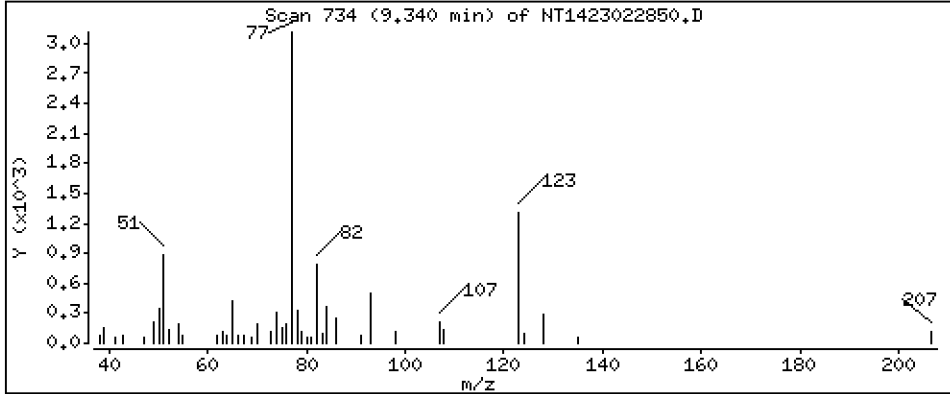
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

19 Nitrobenzene

Concentration: 0.2048 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

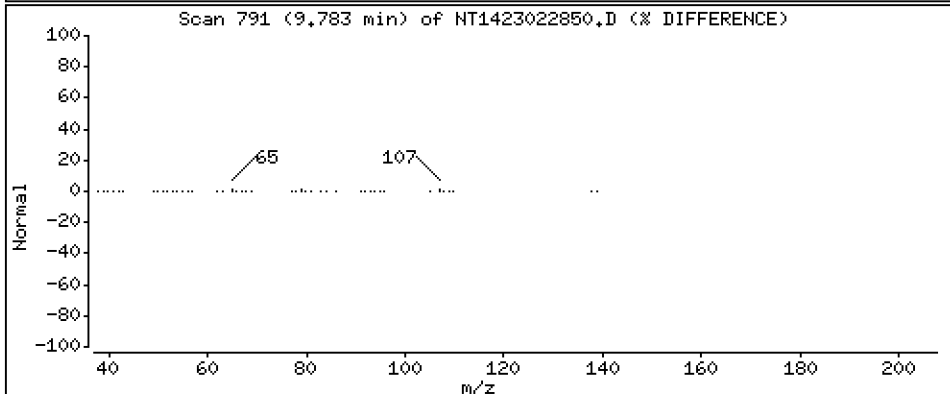
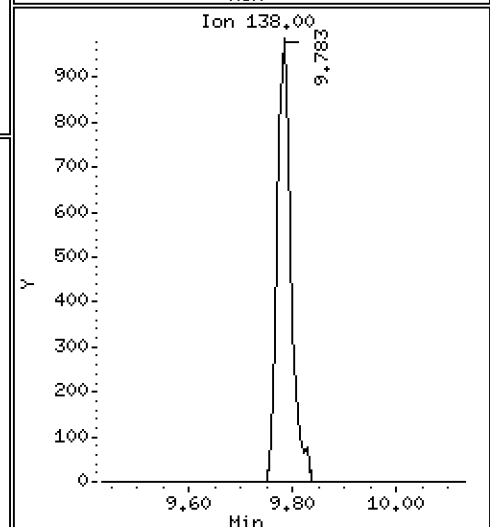
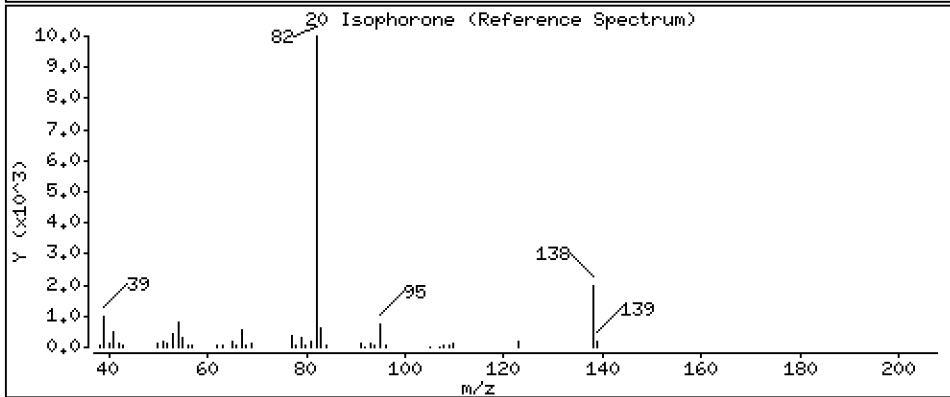
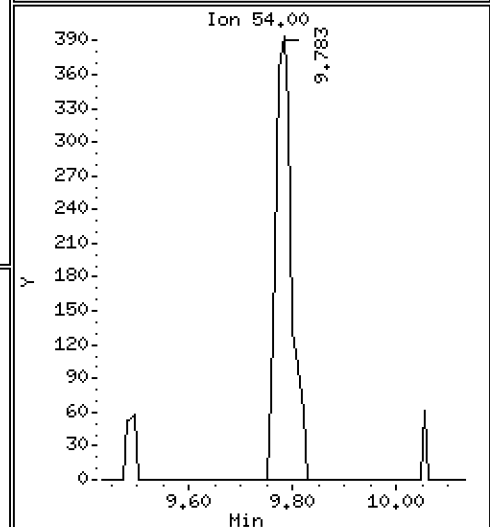
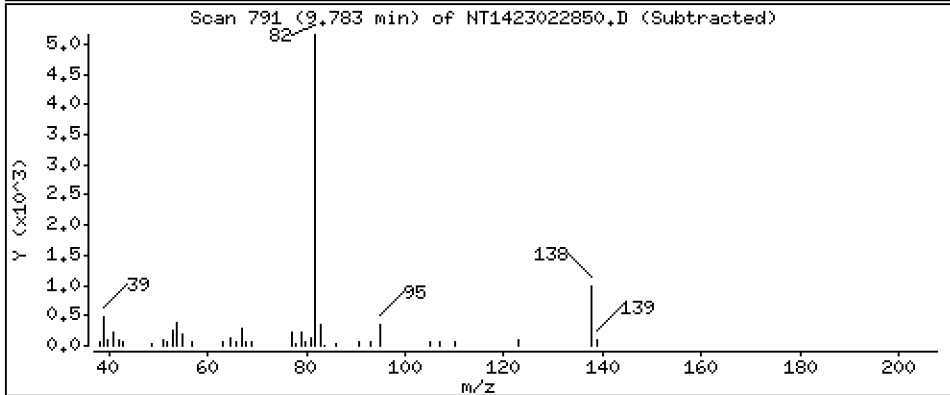
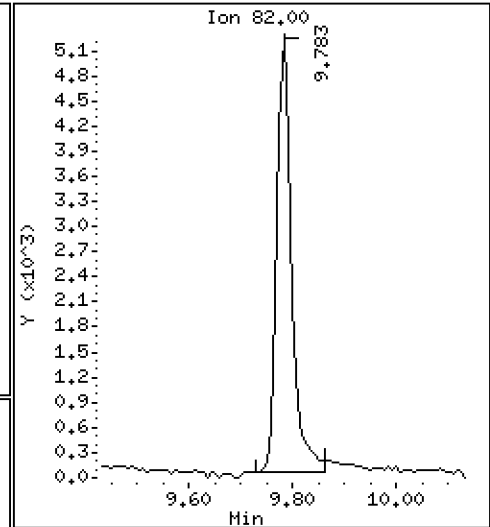
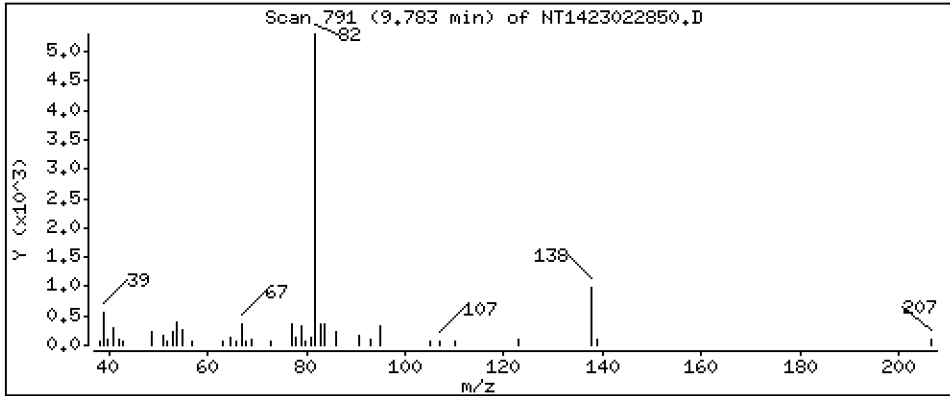
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

20 Isophorone

Concentration: 0.1640 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

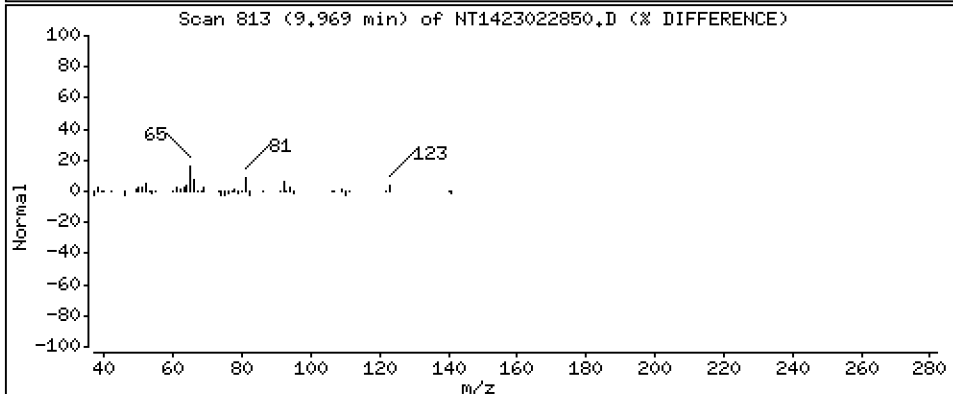
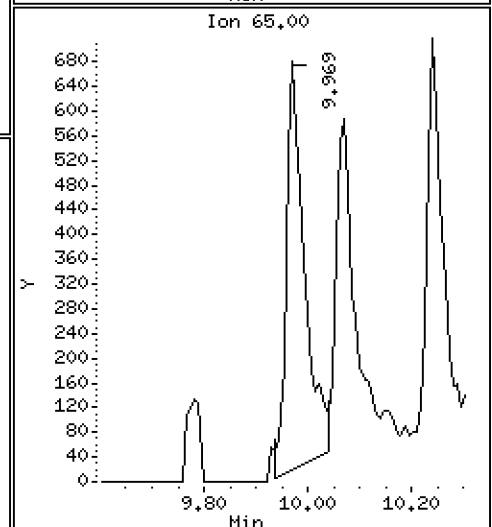
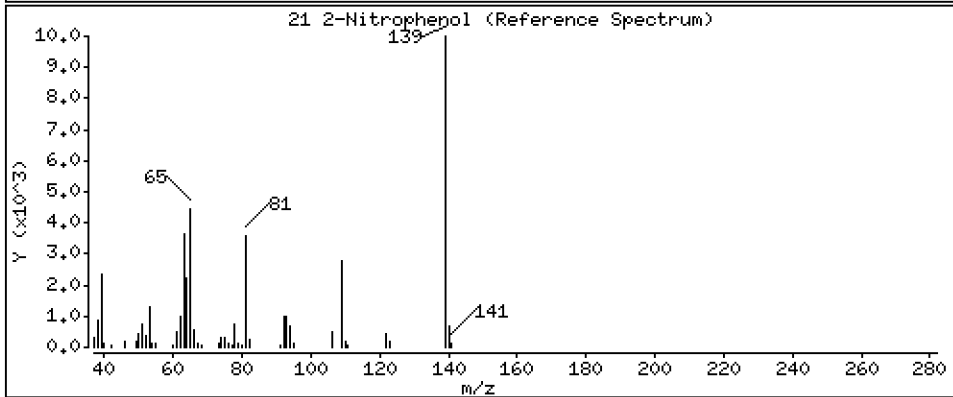
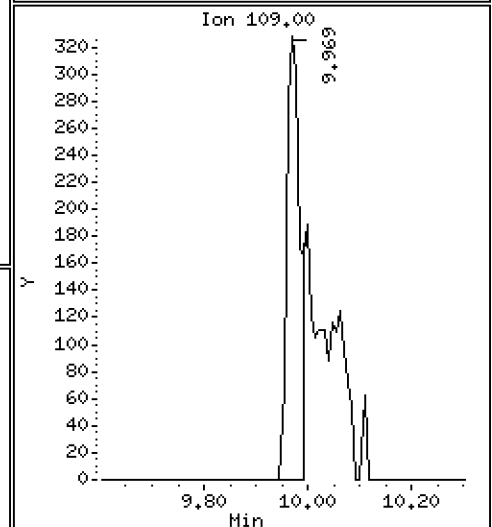
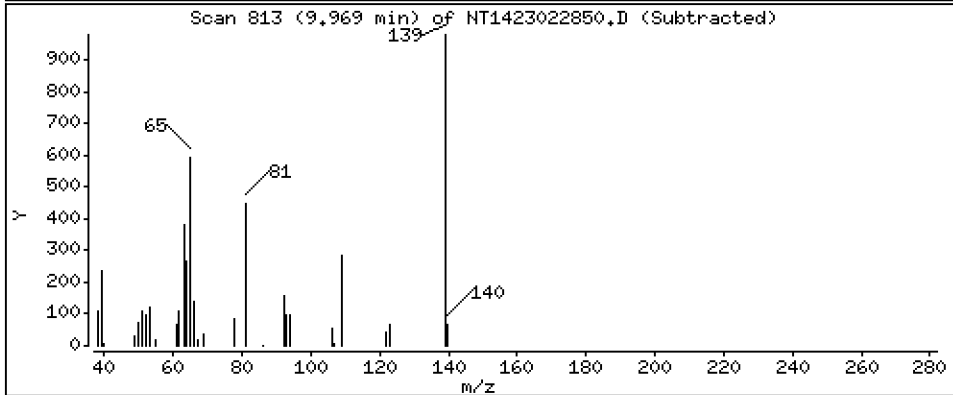
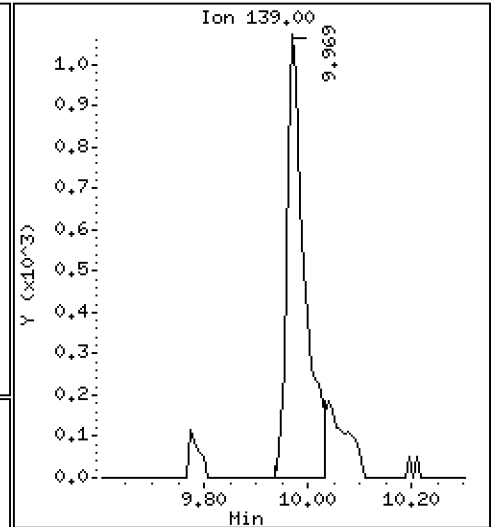
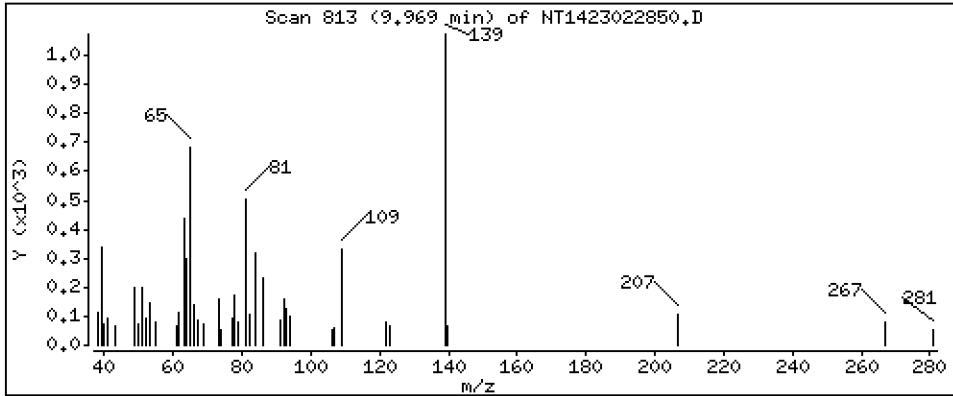
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

21 2-Nitrophenol

Concentration: 0,1308 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

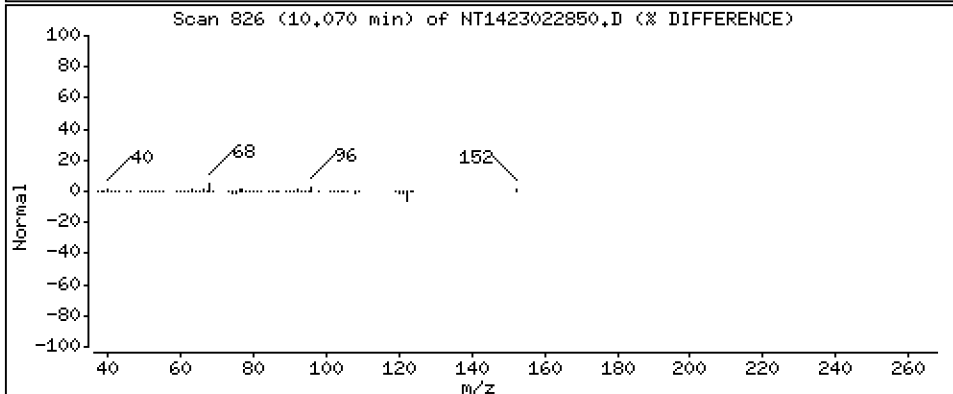
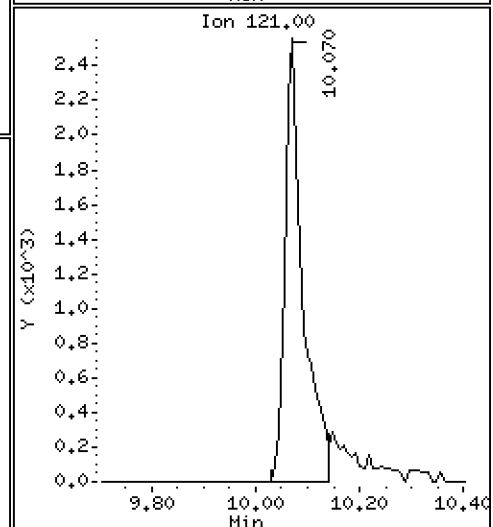
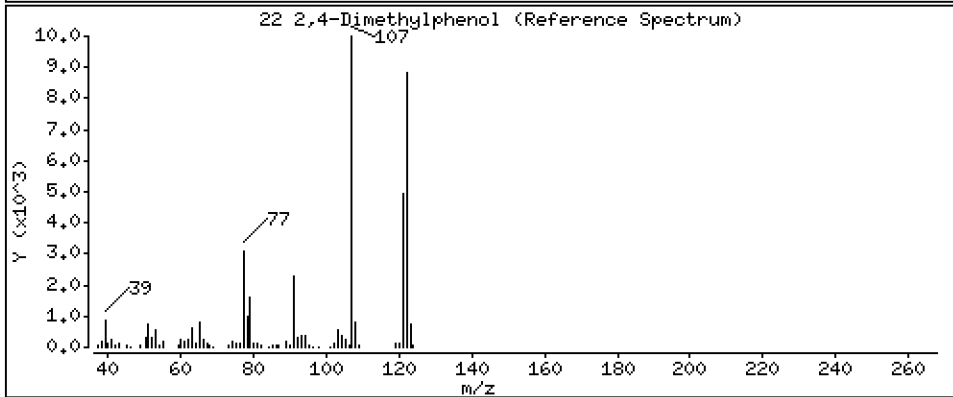
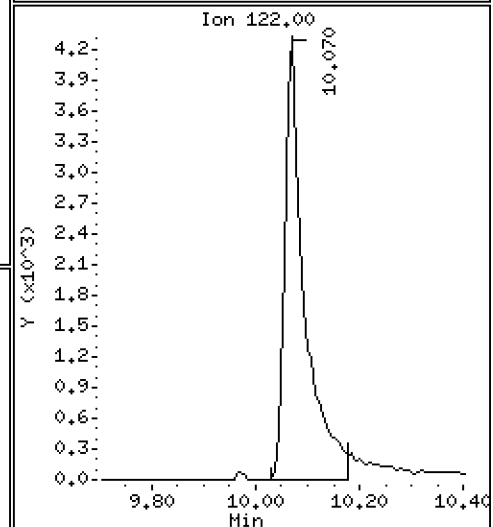
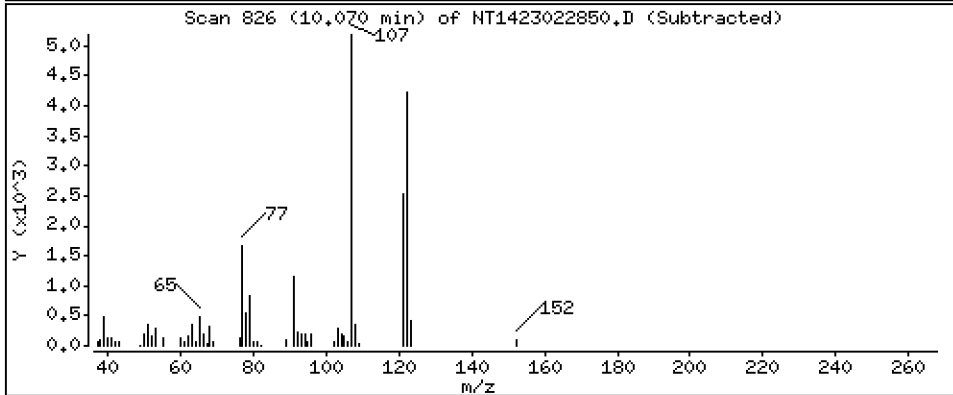
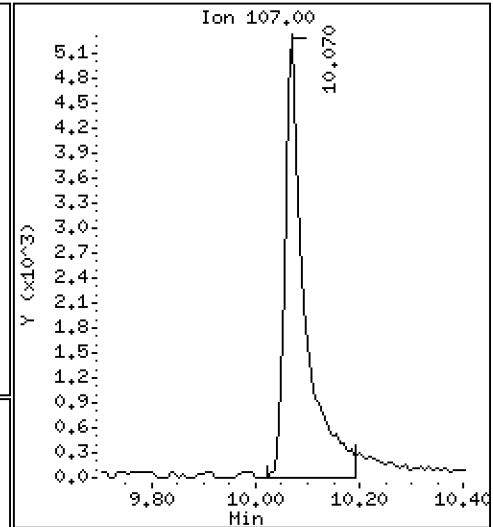
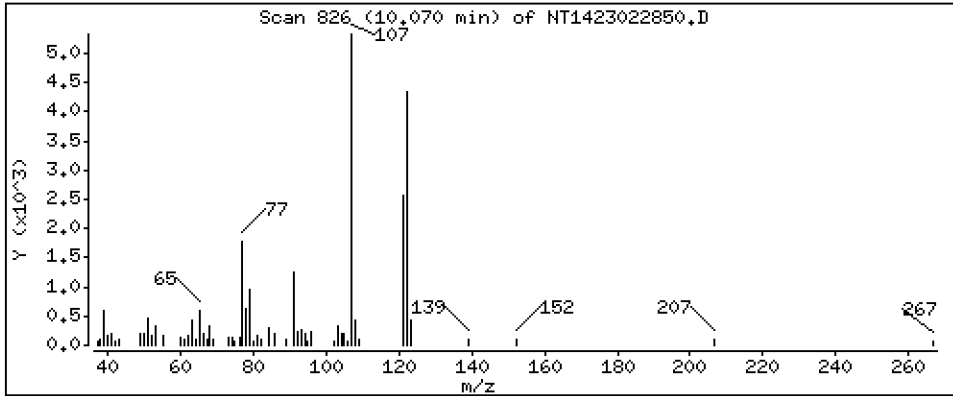
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 0,4067 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

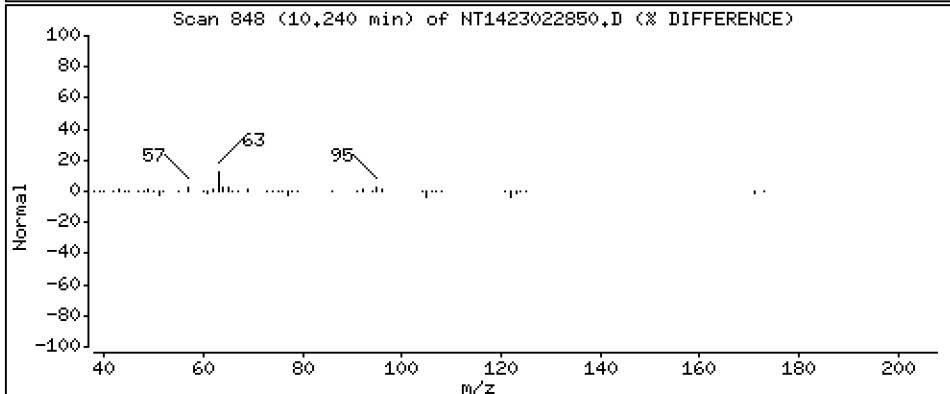
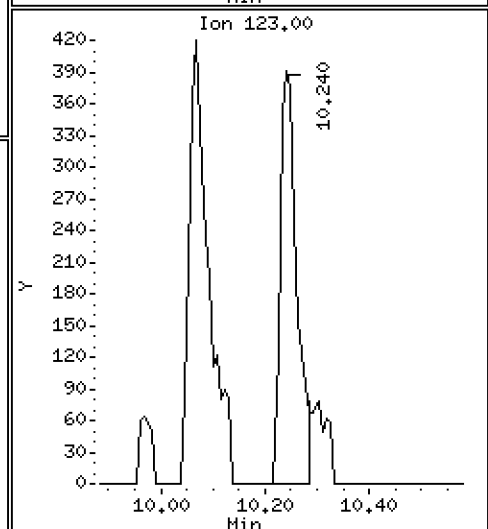
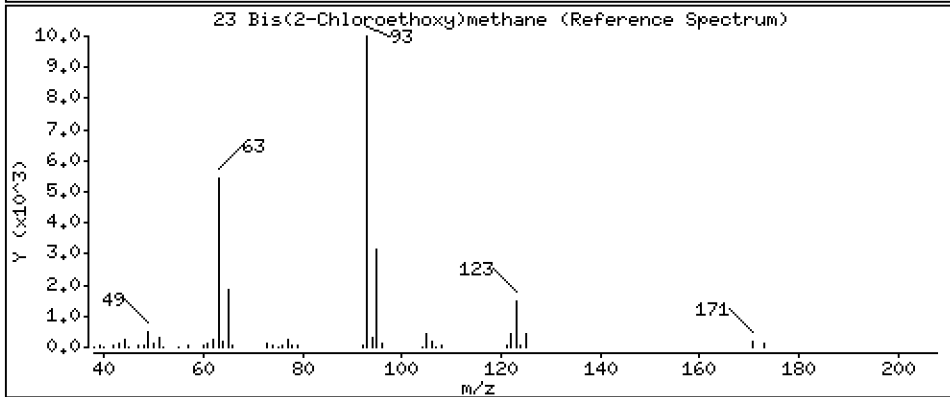
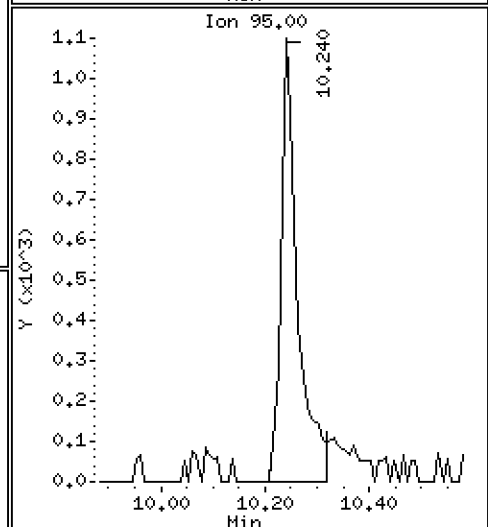
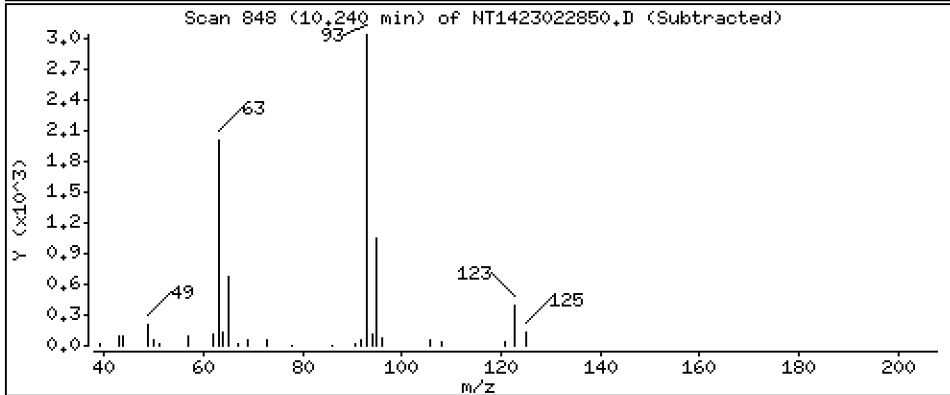
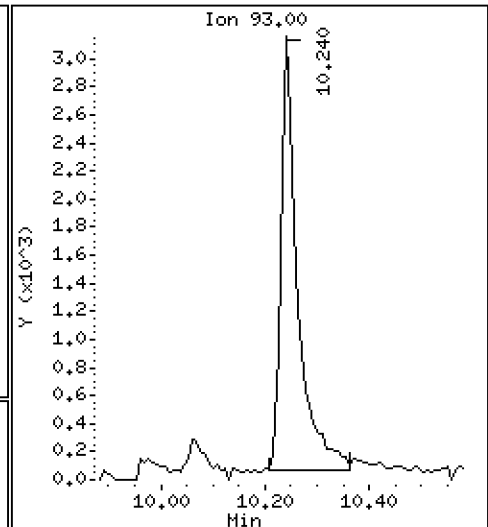
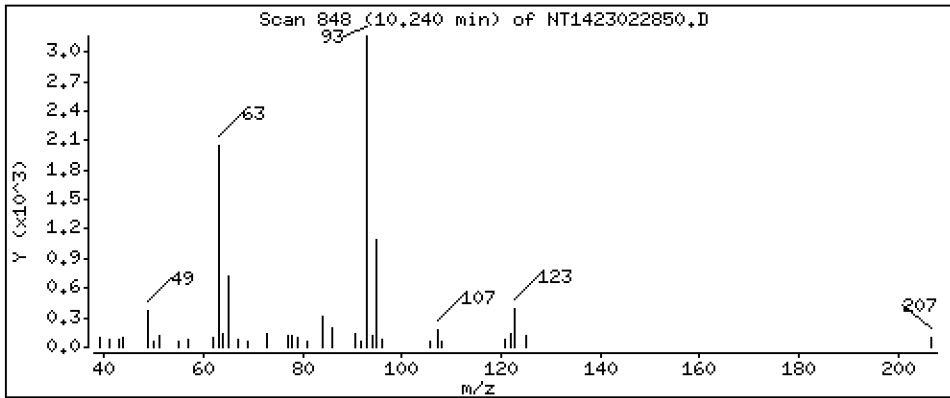
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

23 Bis(2-Chloroethoxy)methane

Concentration: 0,1817 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

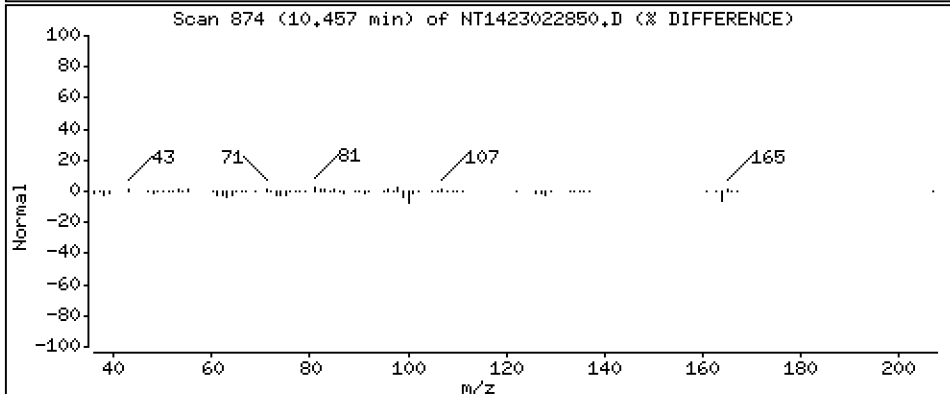
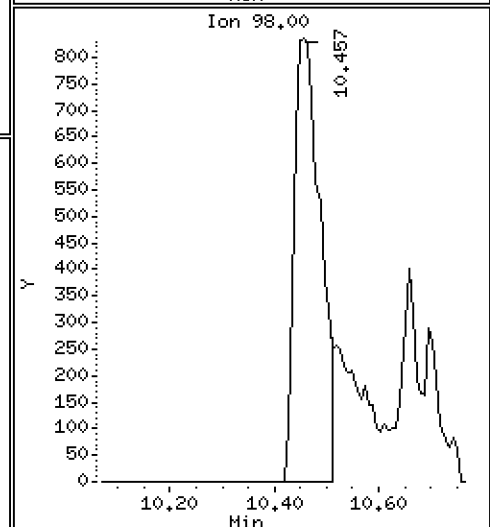
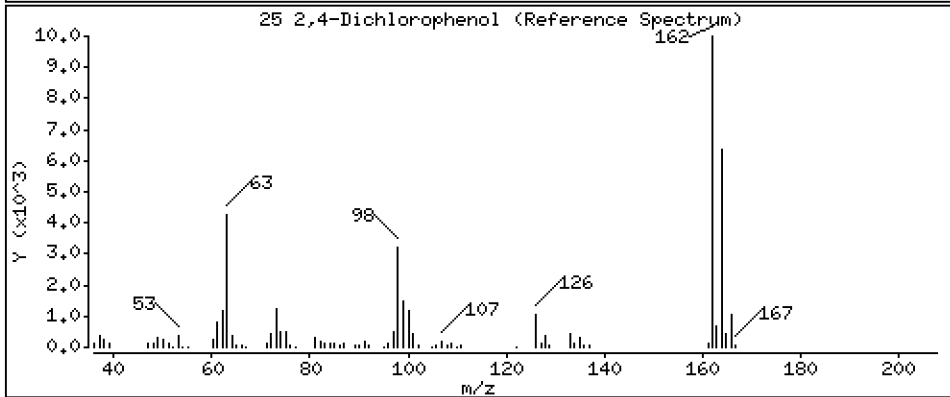
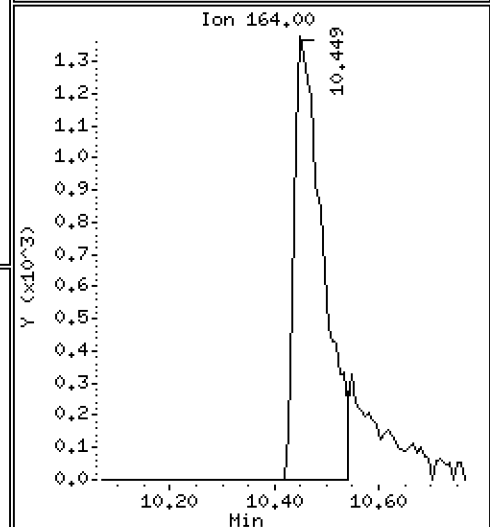
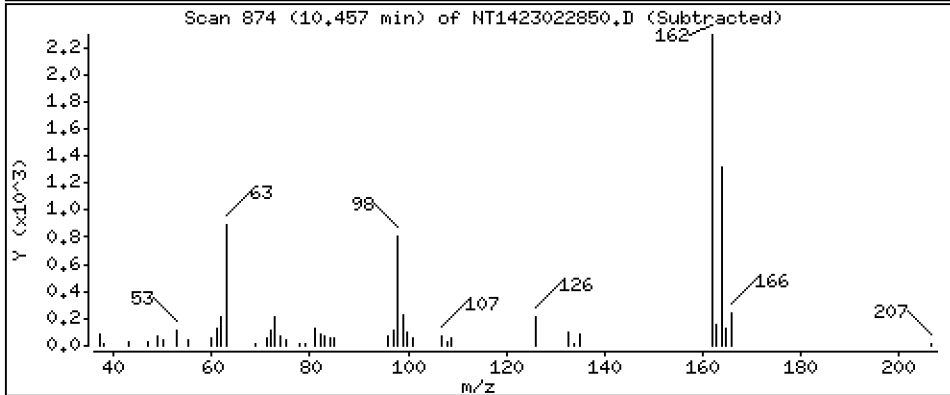
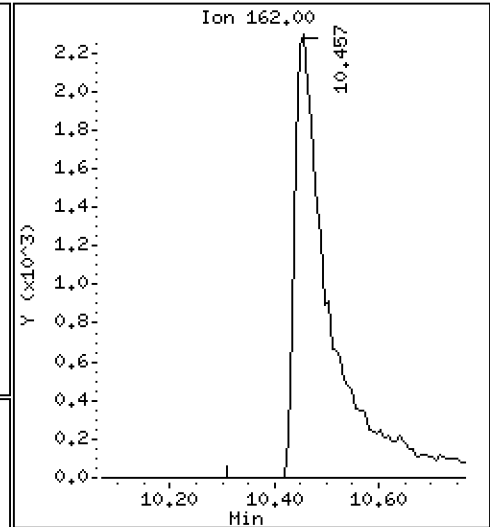
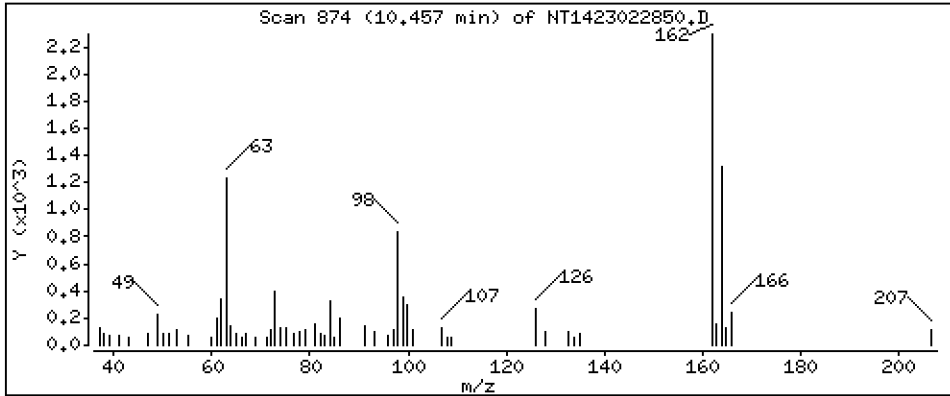
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 0,3293 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

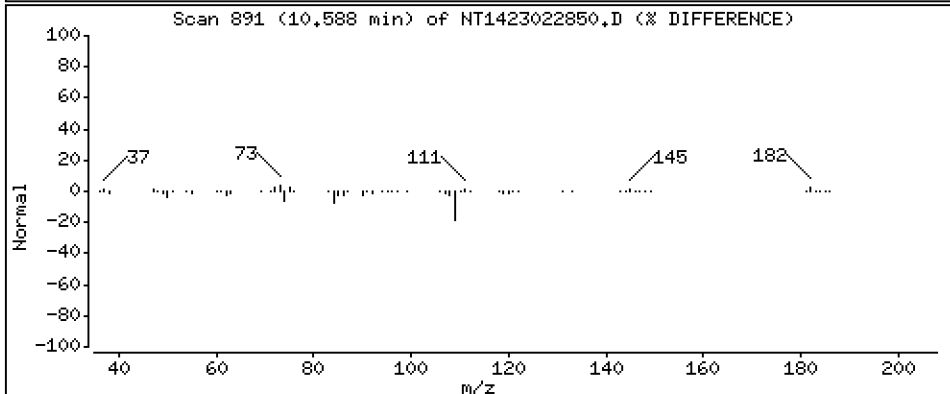
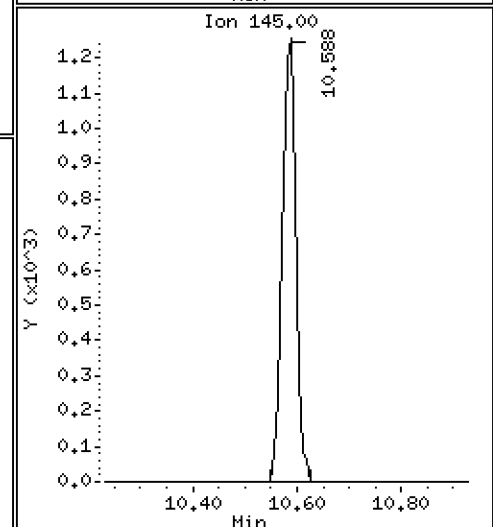
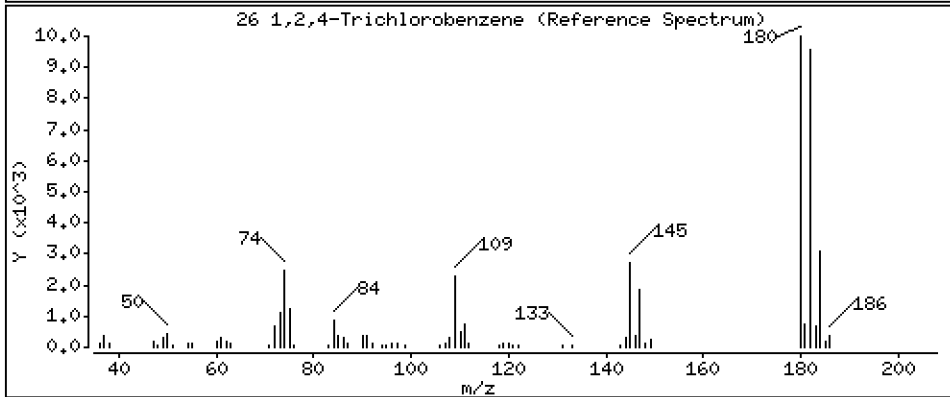
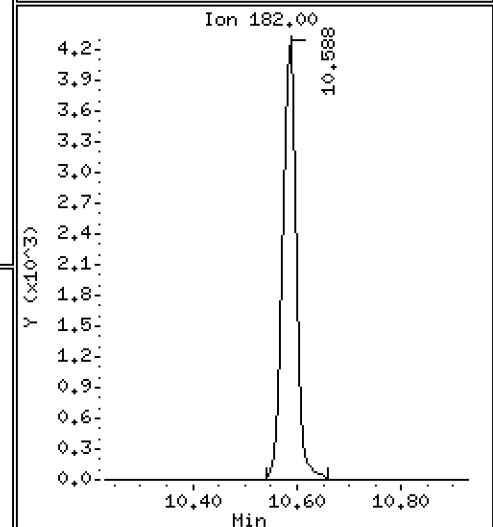
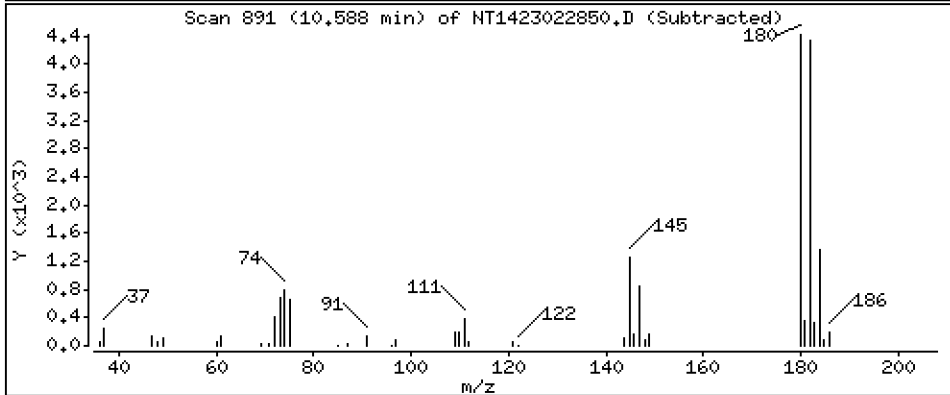
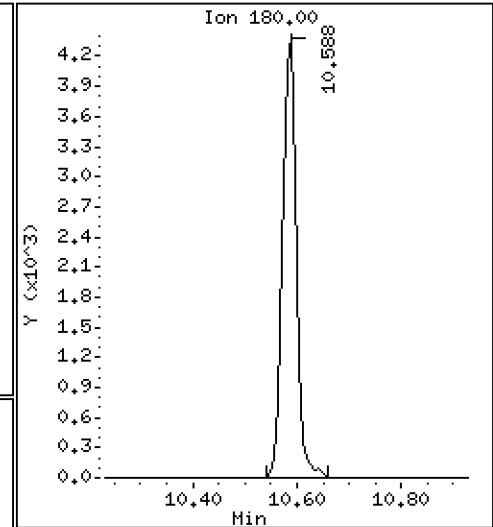
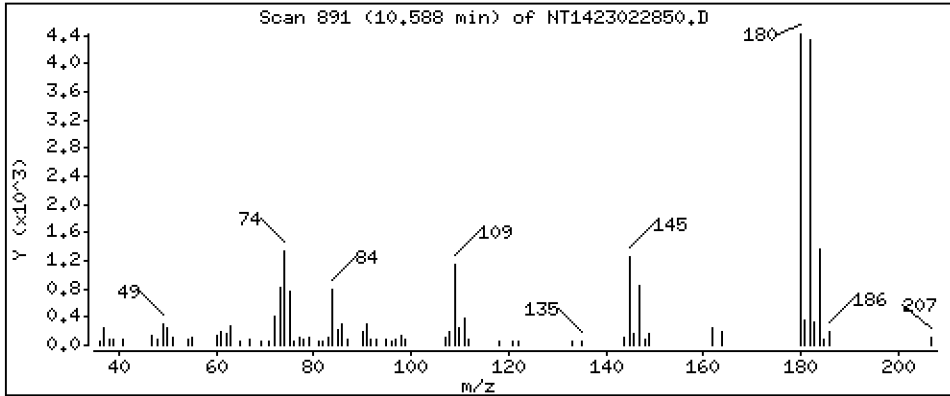
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 0,1955 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

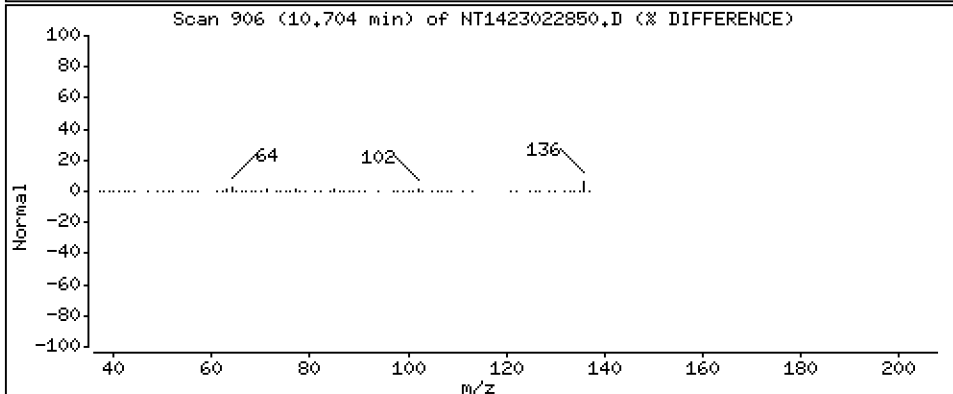
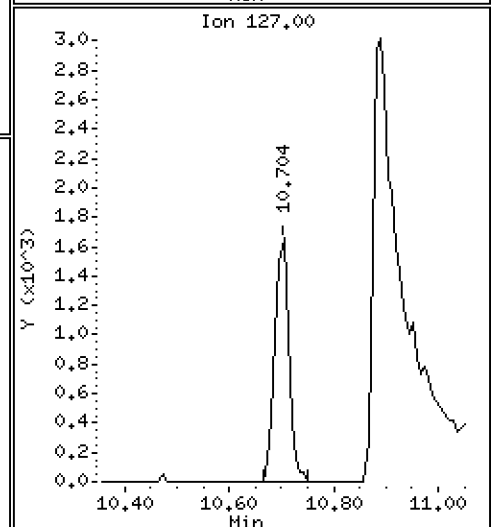
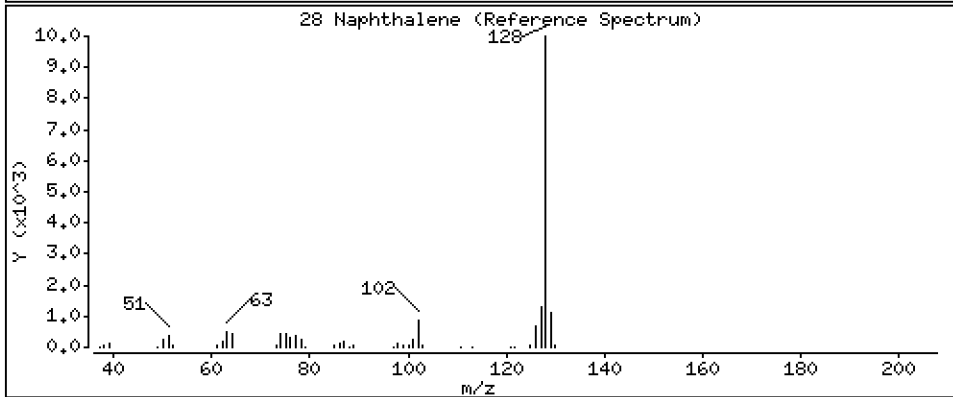
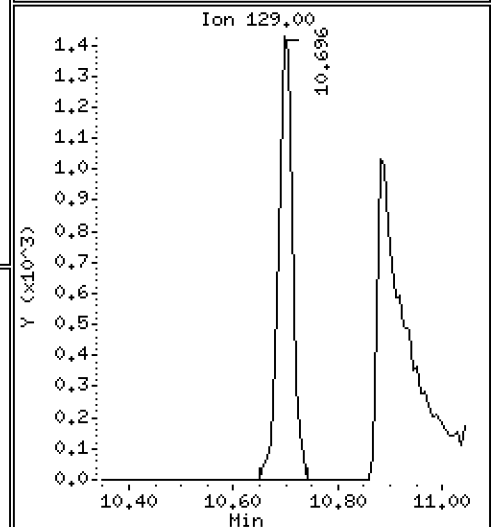
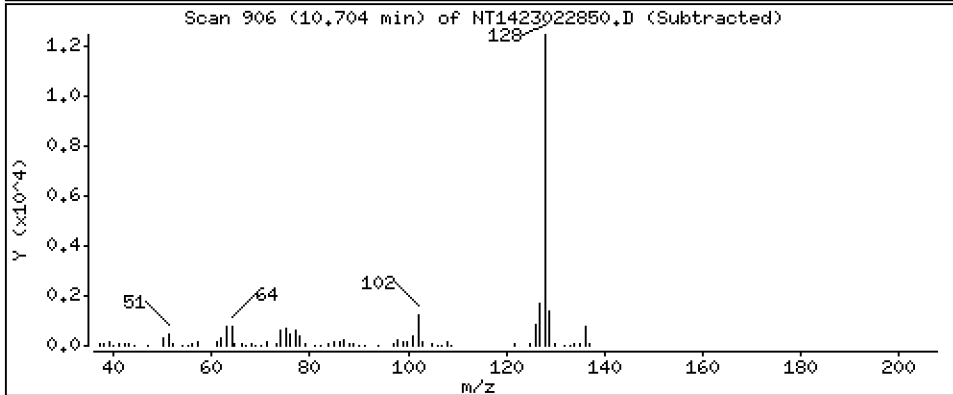
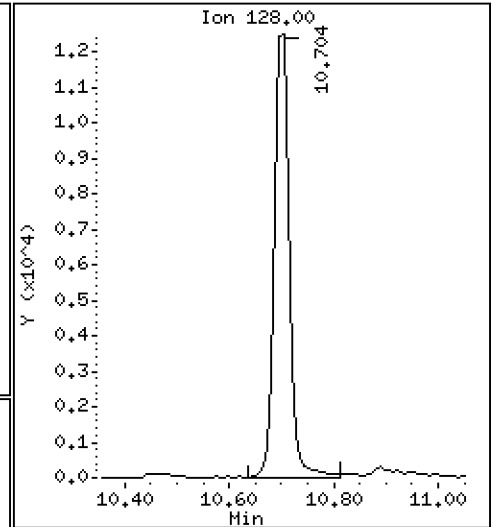
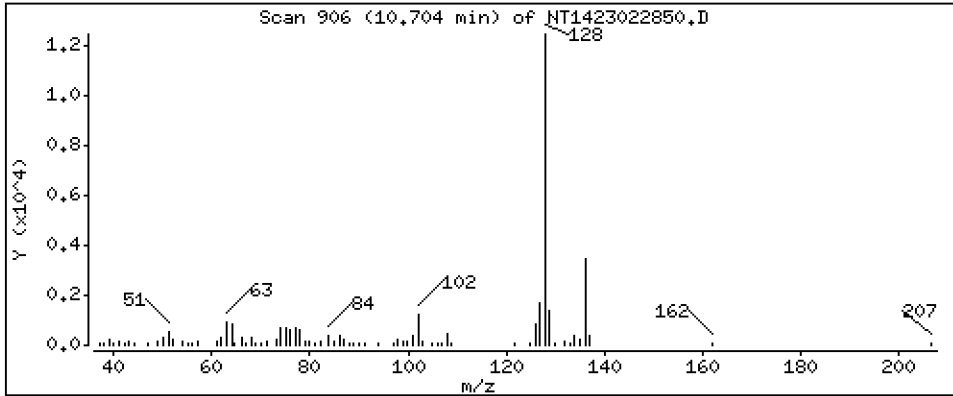
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 0,2182 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

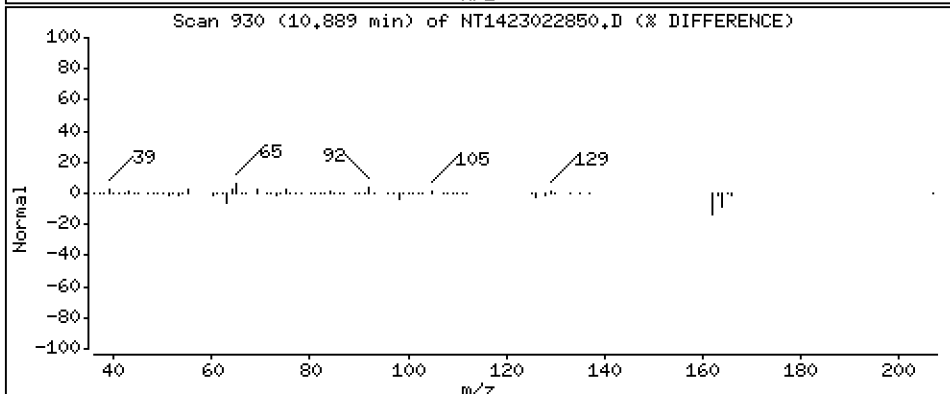
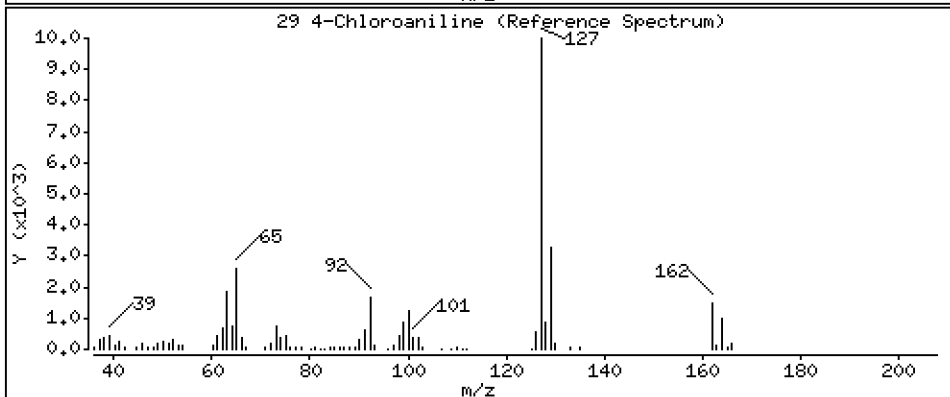
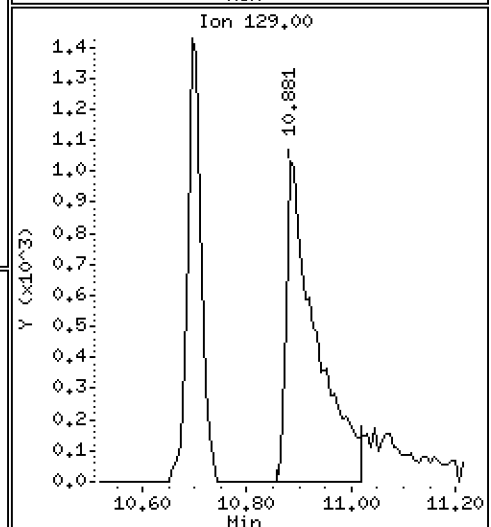
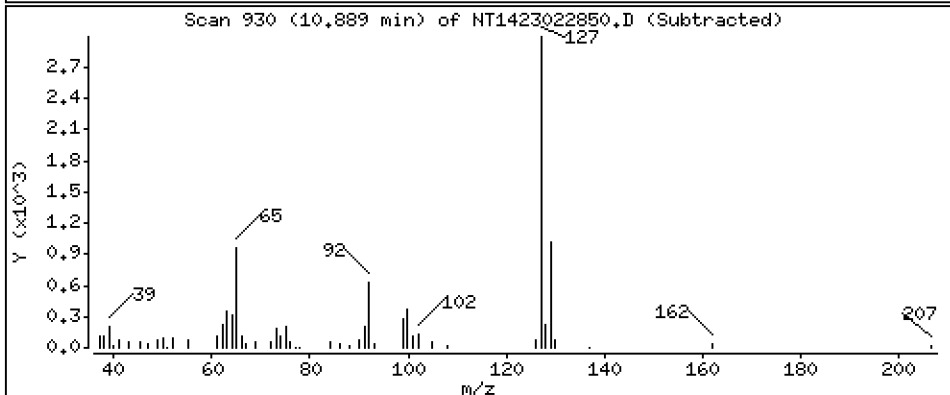
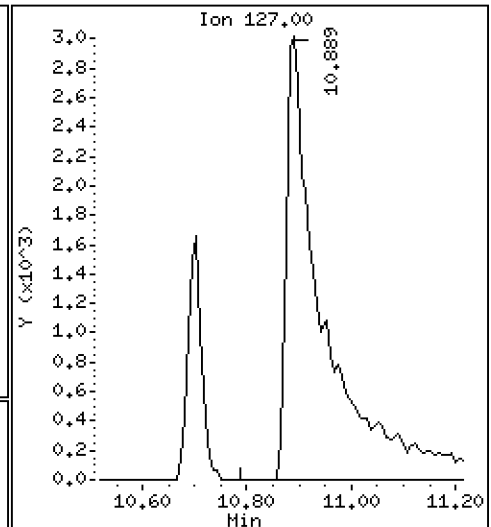
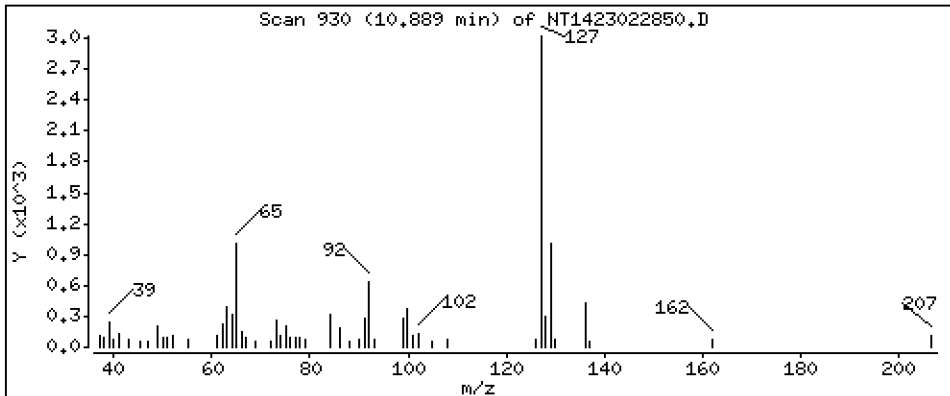
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

29 4-Chloroaniline

Concentration: 0,3426 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

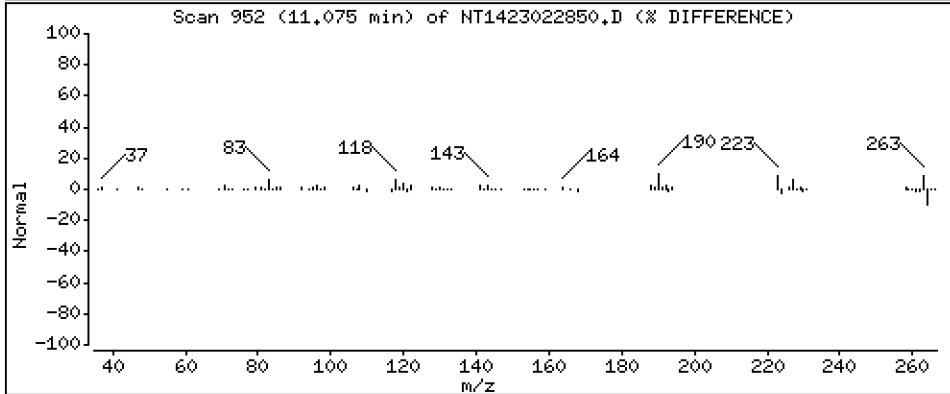
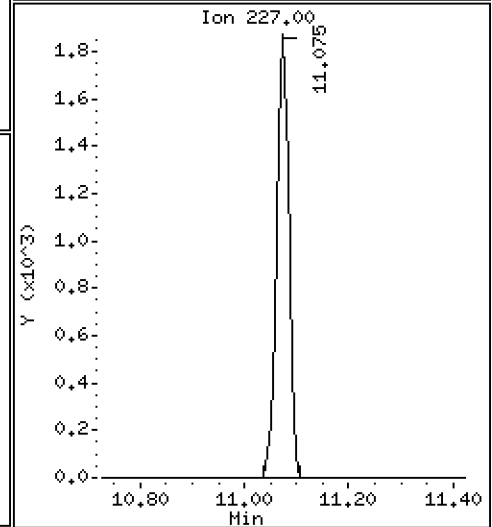
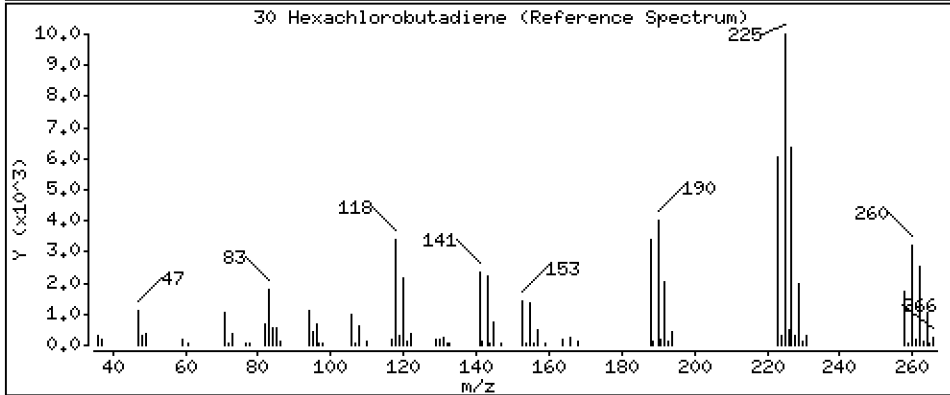
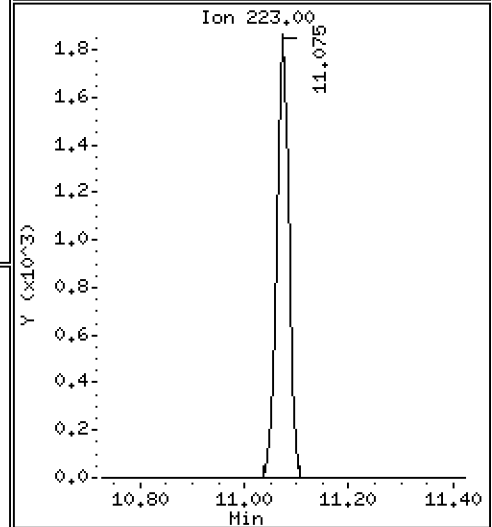
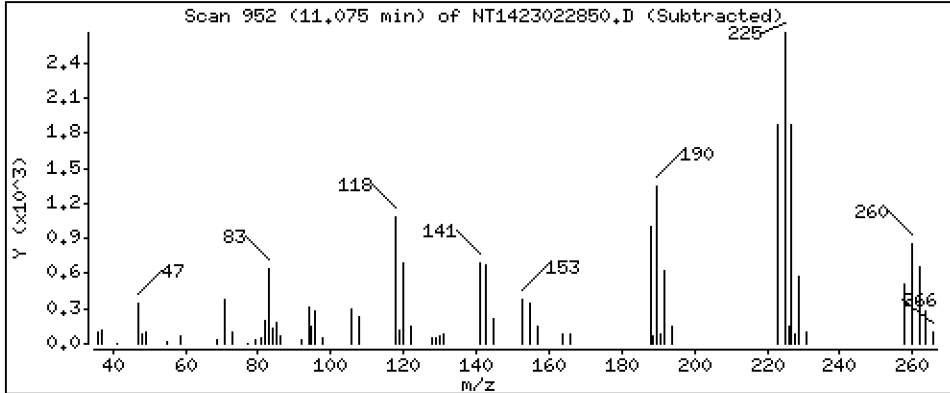
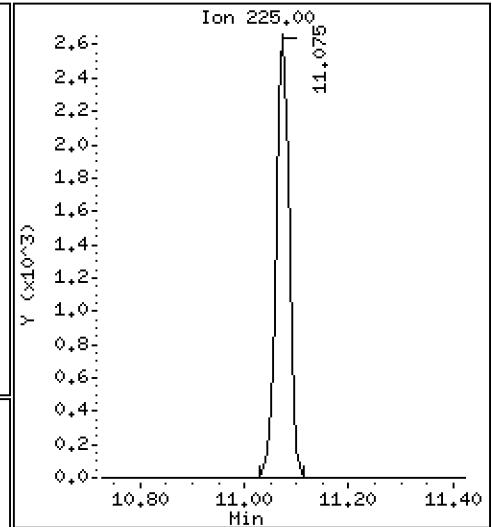
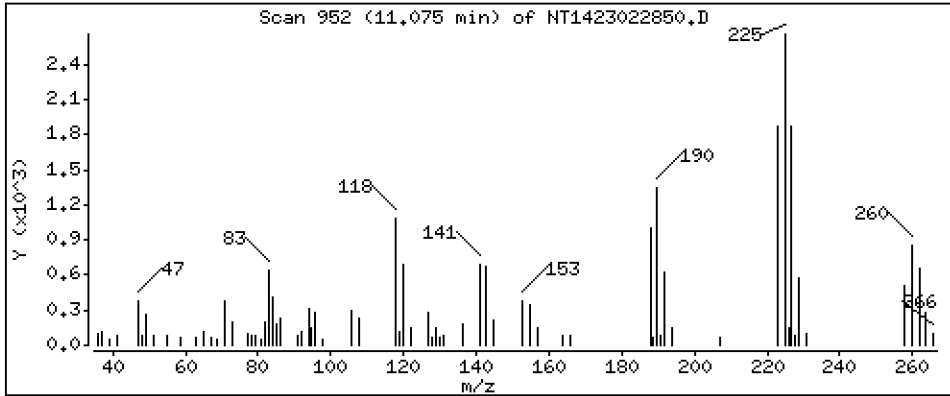
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 0,1812 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

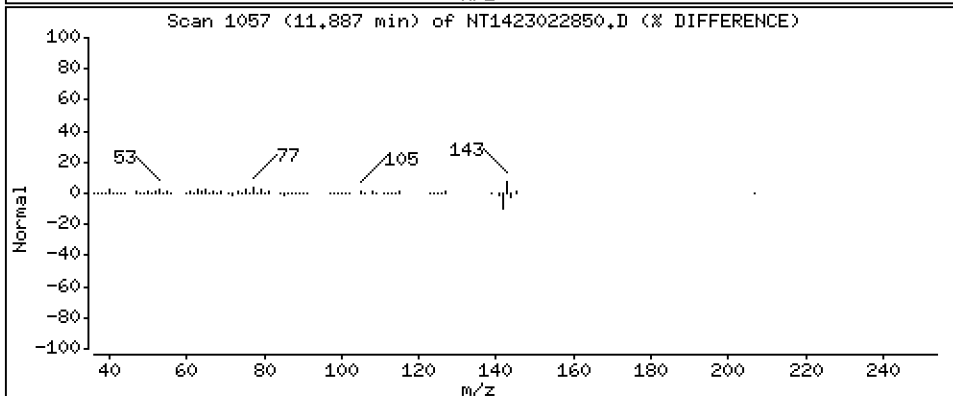
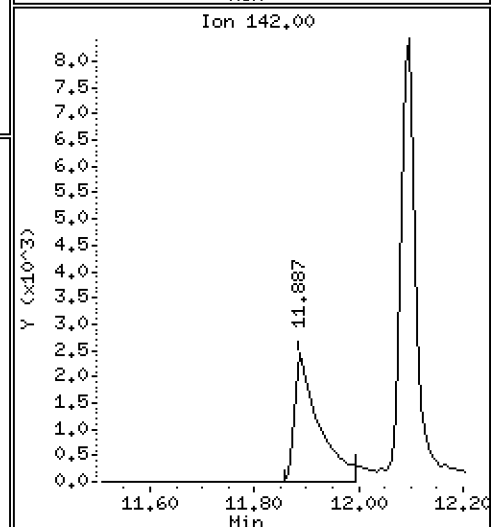
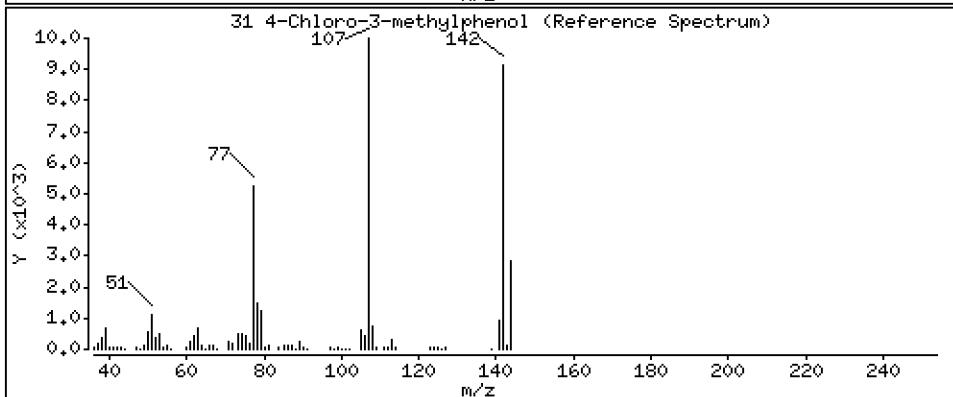
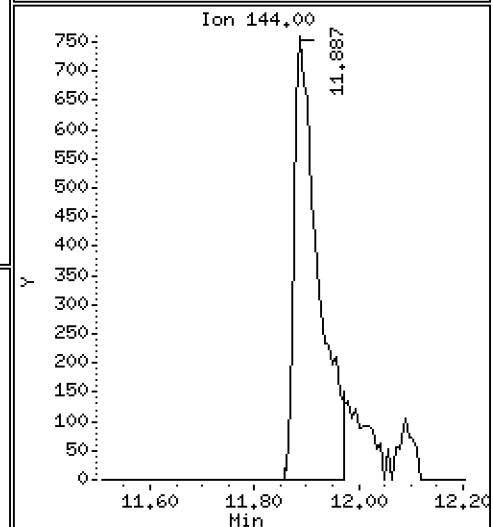
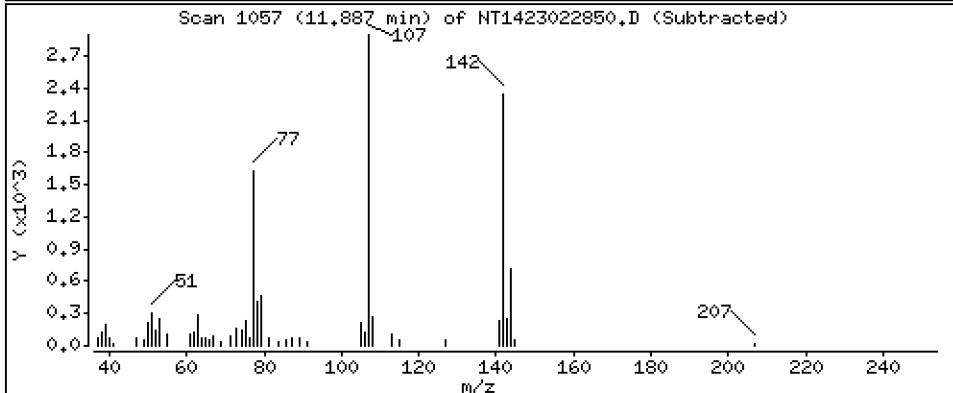
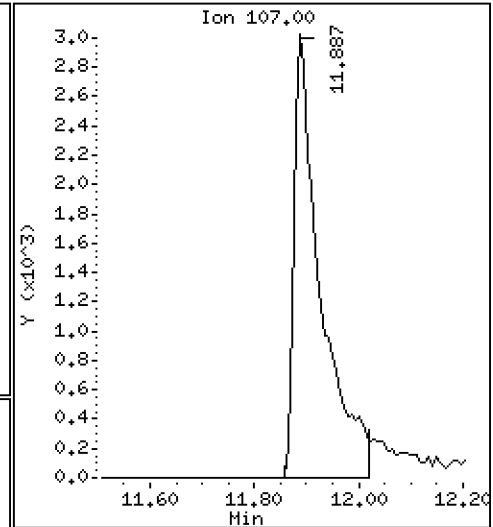
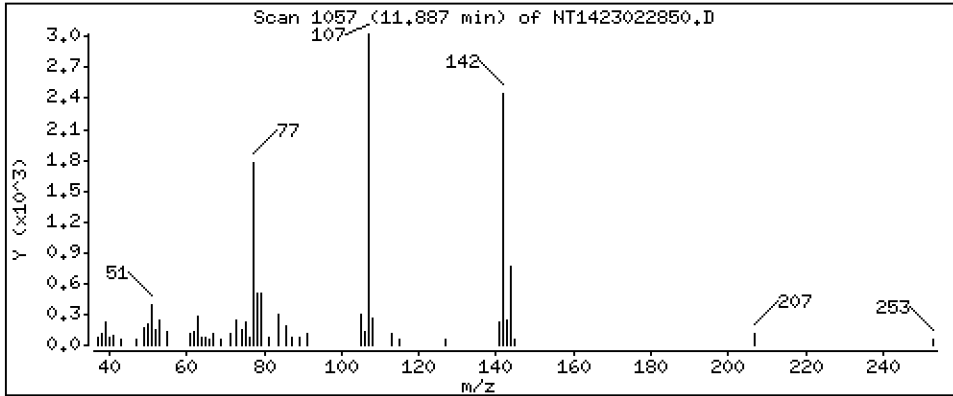
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

31 4-Chloro-3-methylphenol

Concentration: 0,3431 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

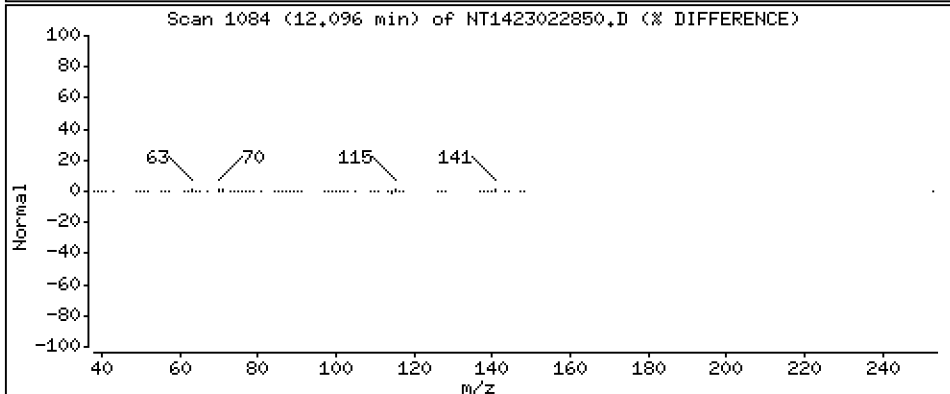
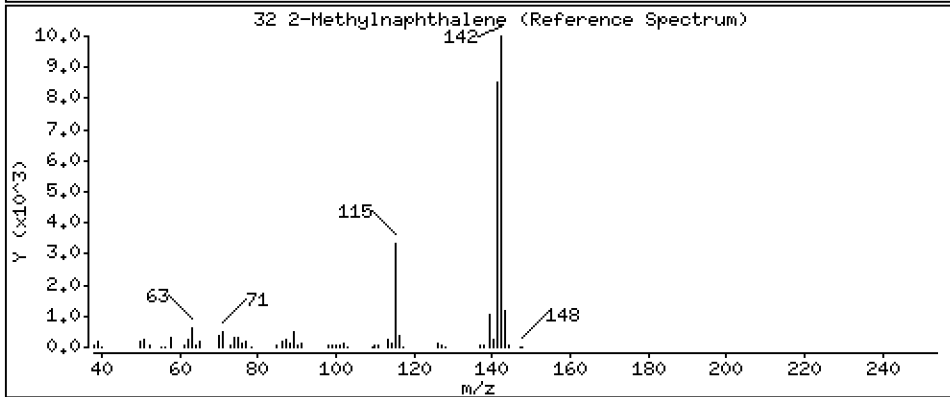
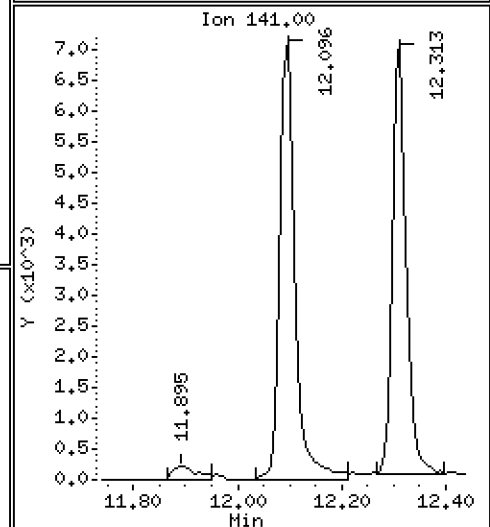
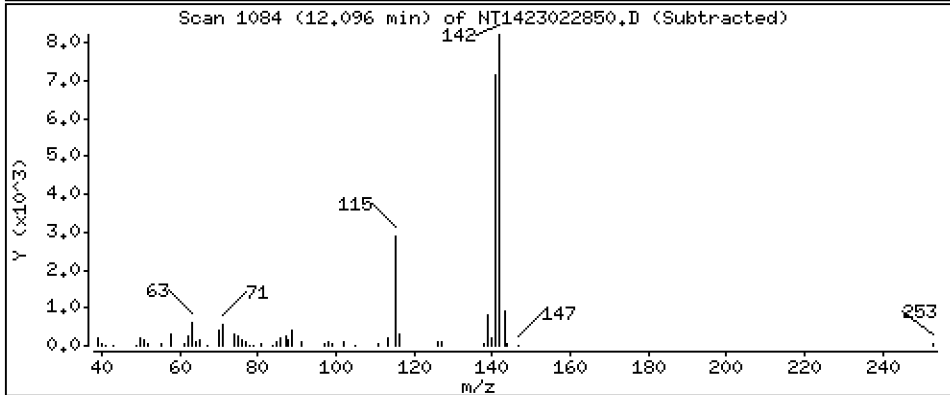
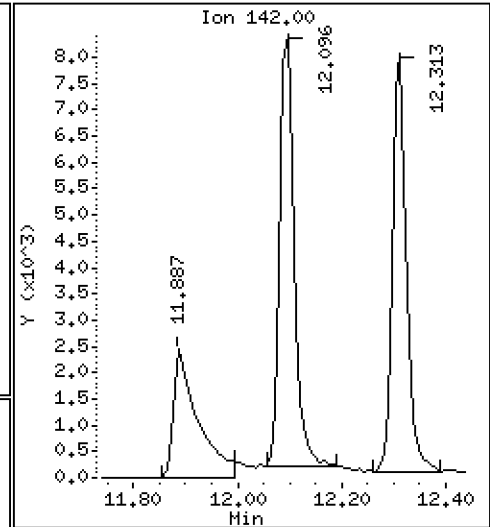
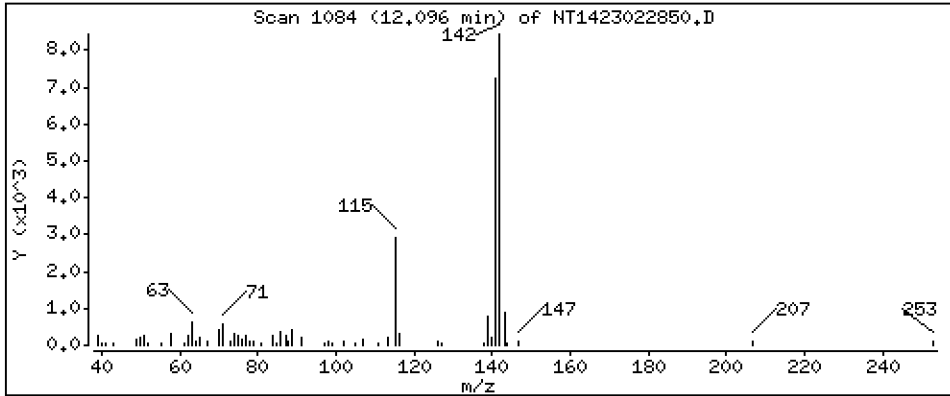
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 0,1846 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

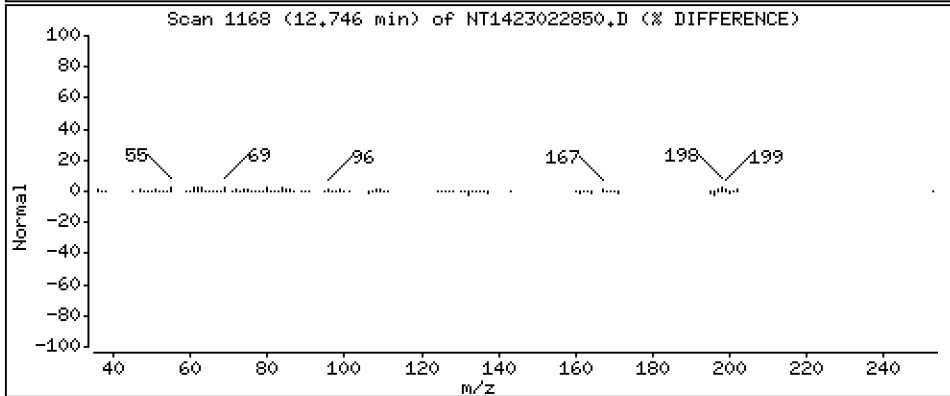
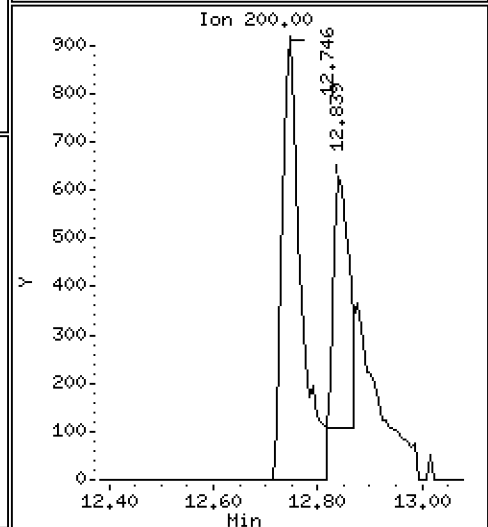
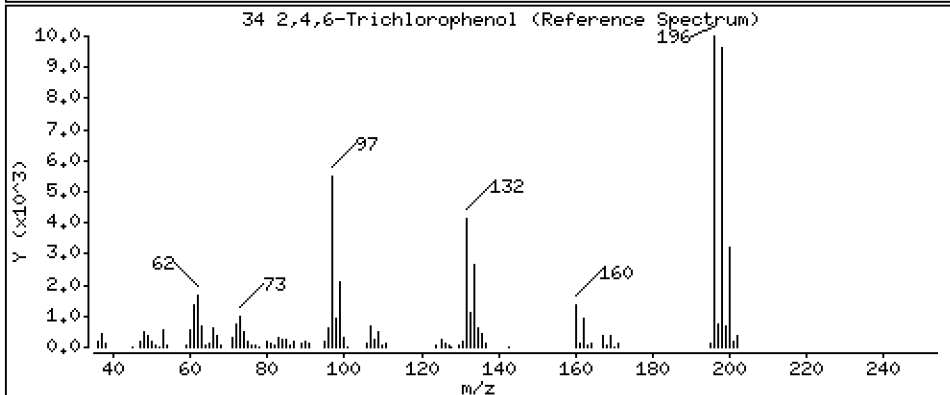
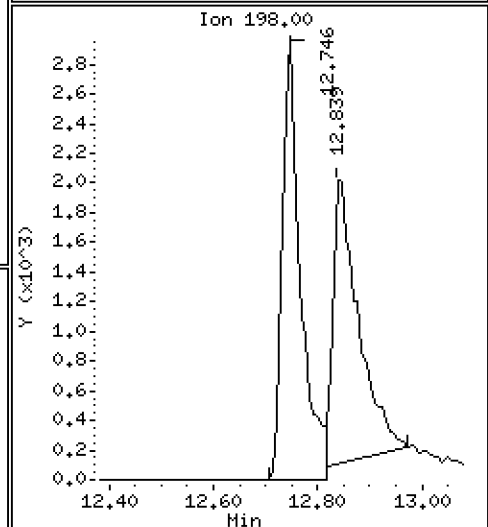
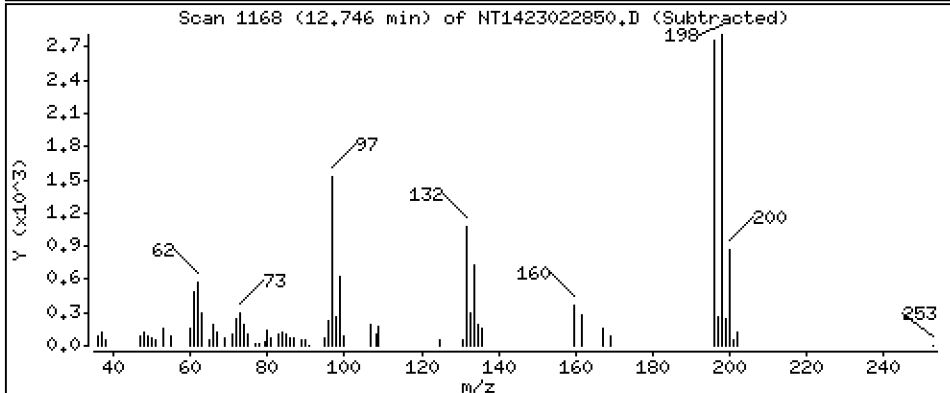
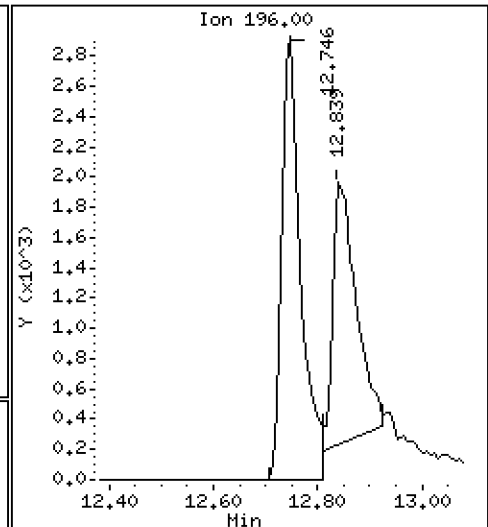
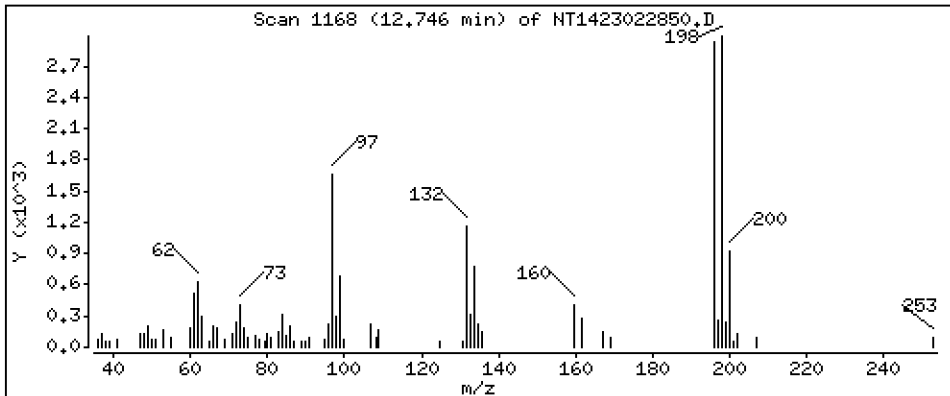
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

34 2,4,6-Trichlorophenol

Concentration: 0.3241 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

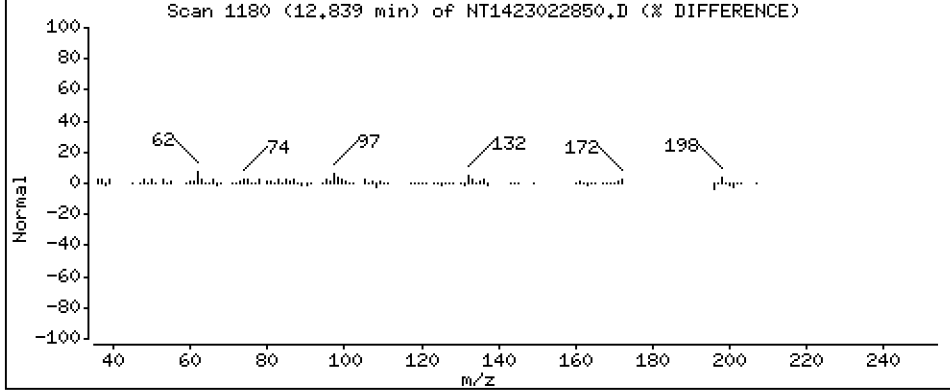
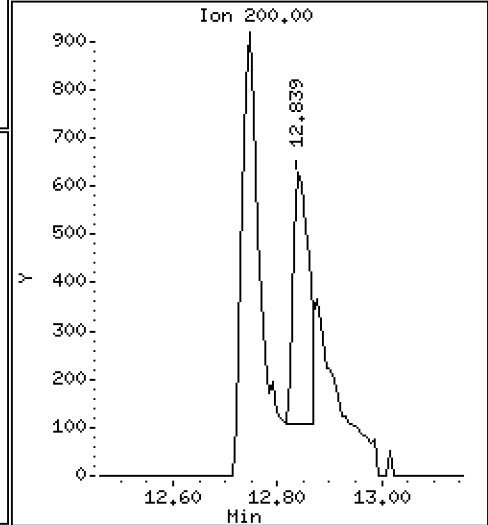
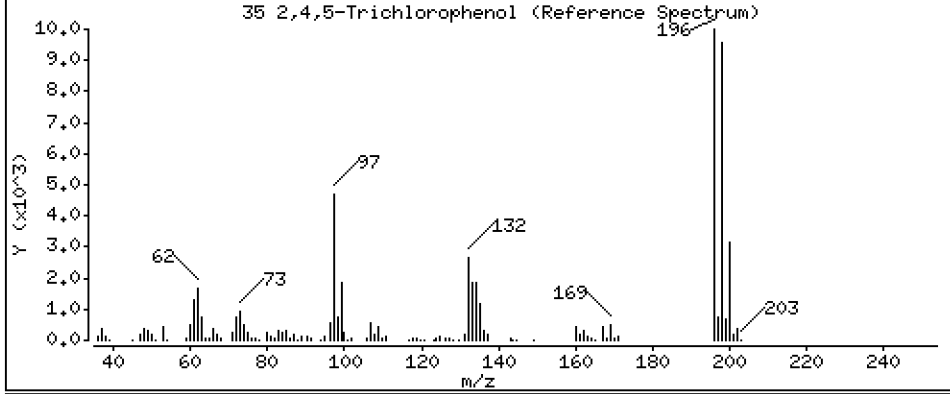
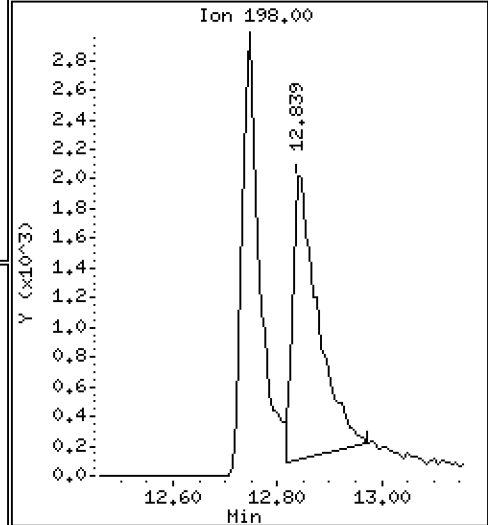
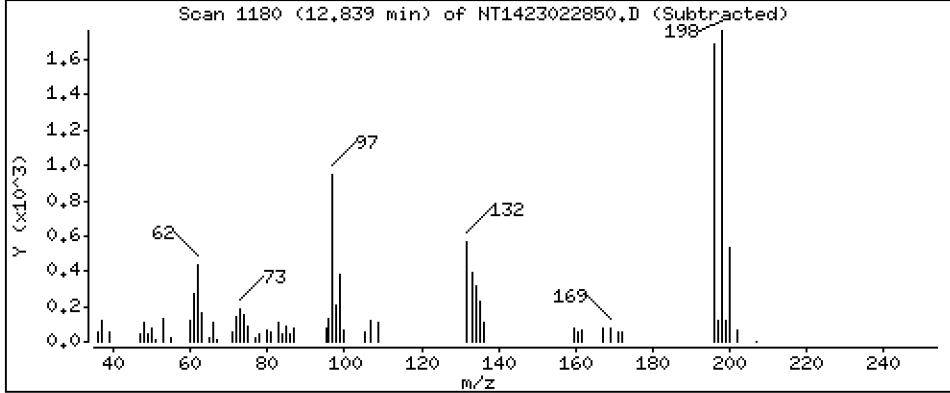
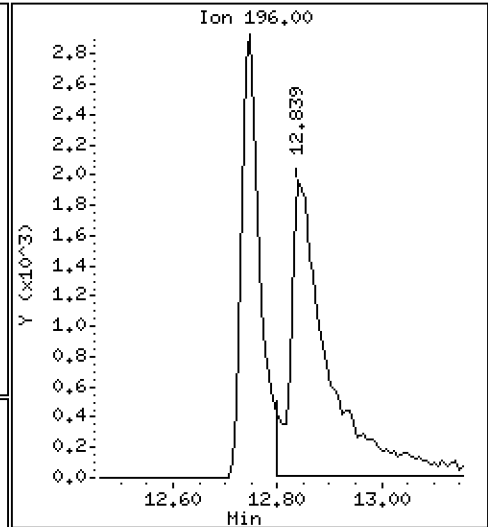
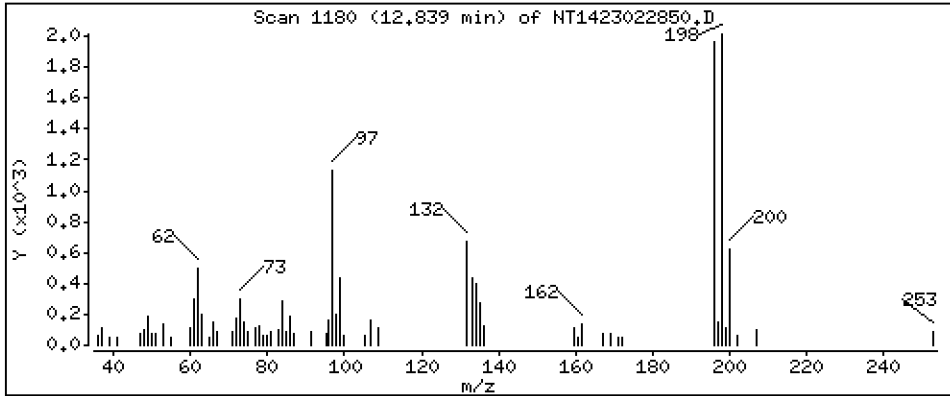
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

35 2,4,5-Trichlorophenol

Concentration: 0.4190 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

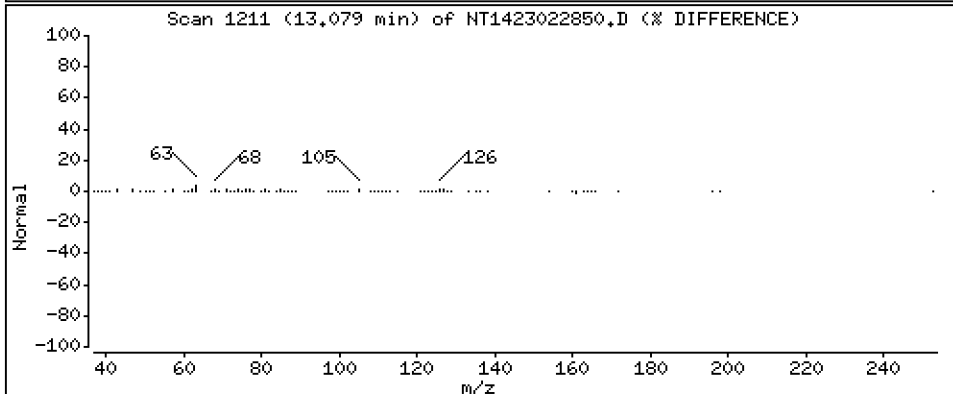
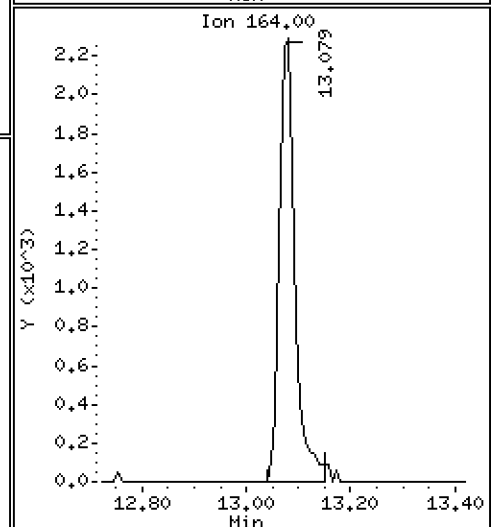
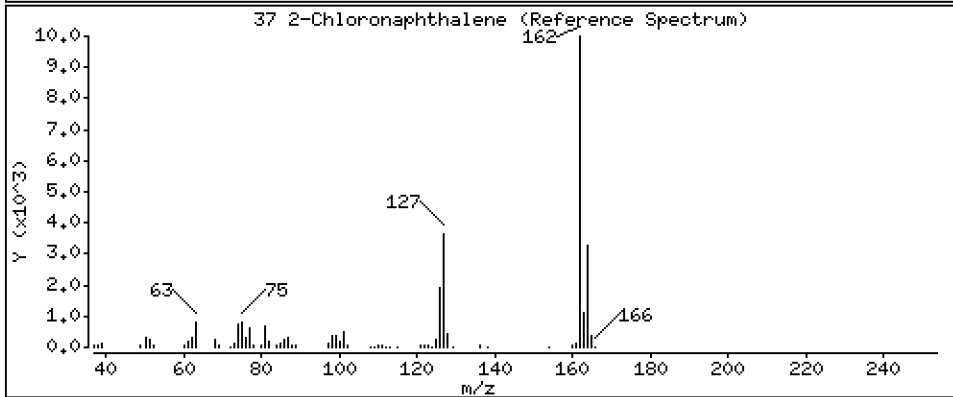
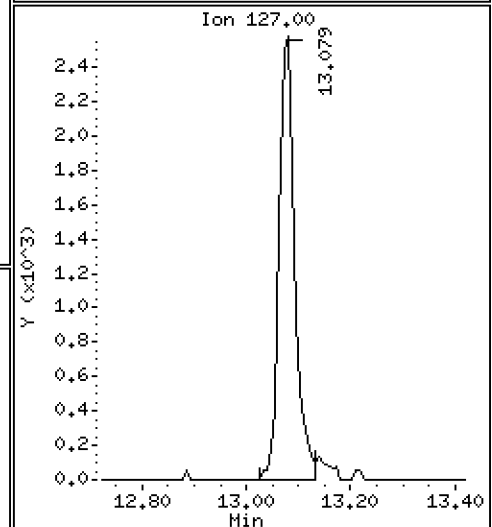
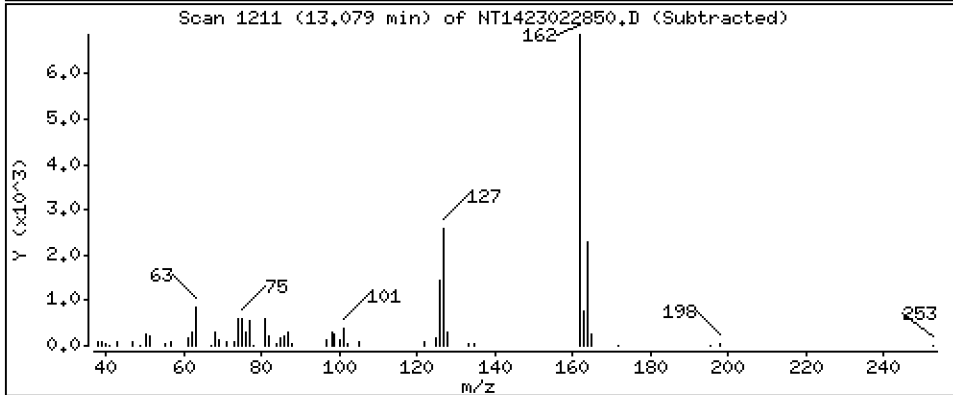
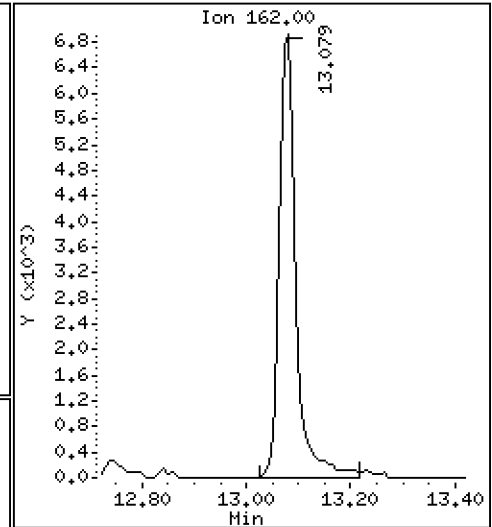
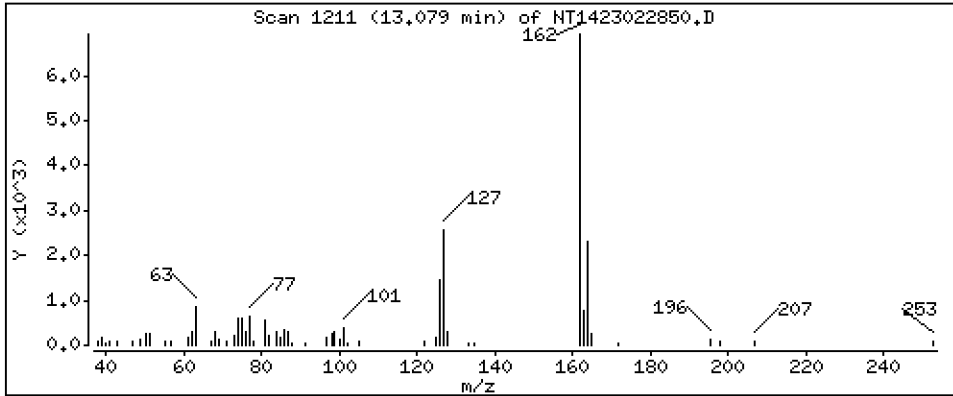
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

37 2-Chloronaphthalene

Concentration: 0,2084 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

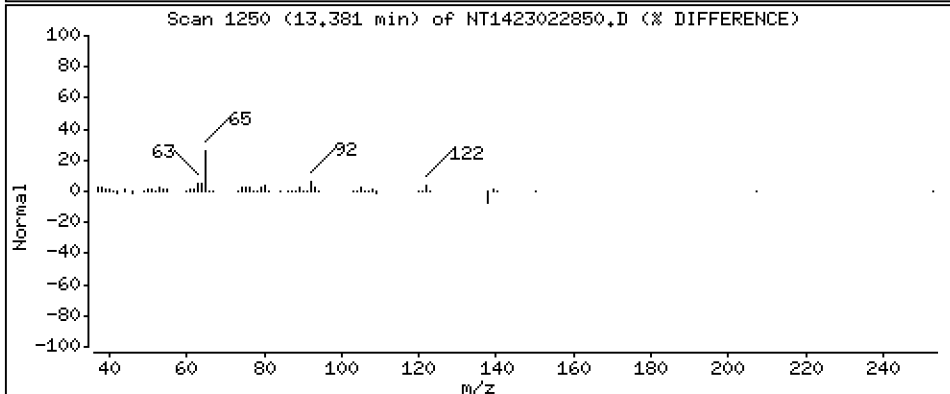
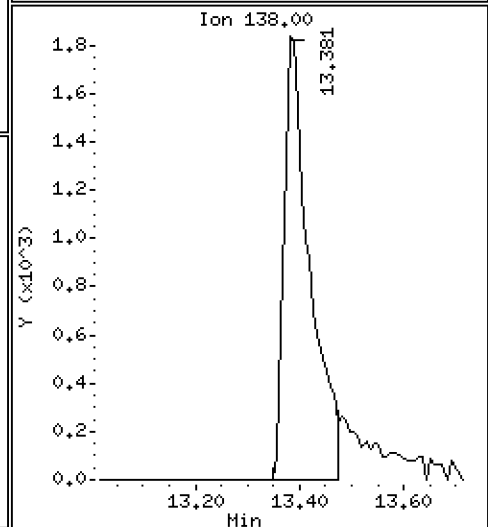
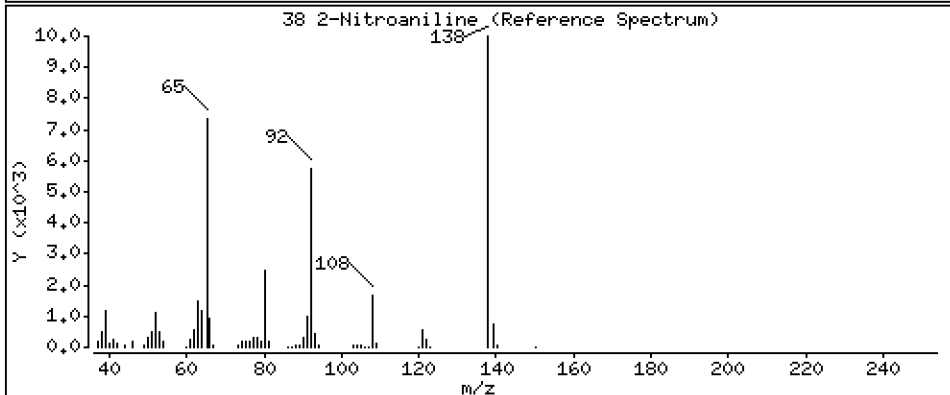
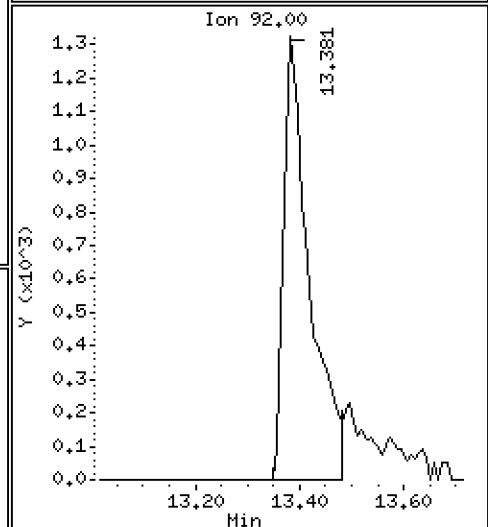
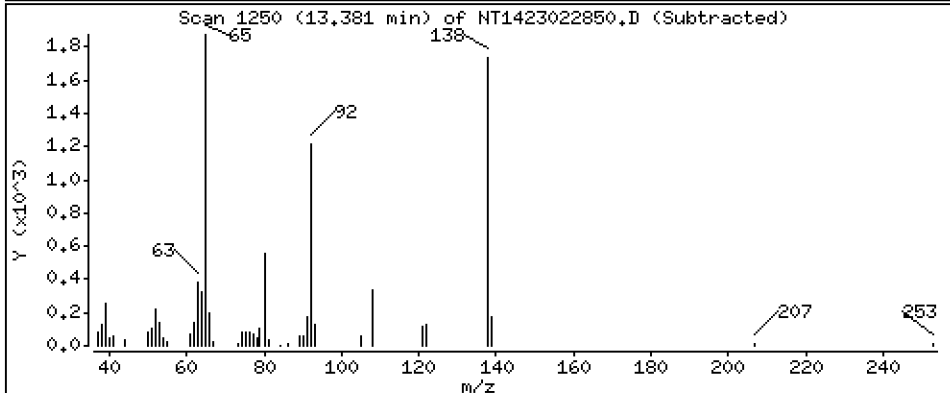
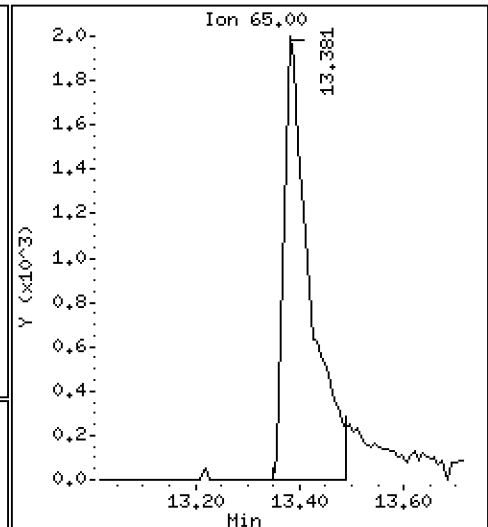
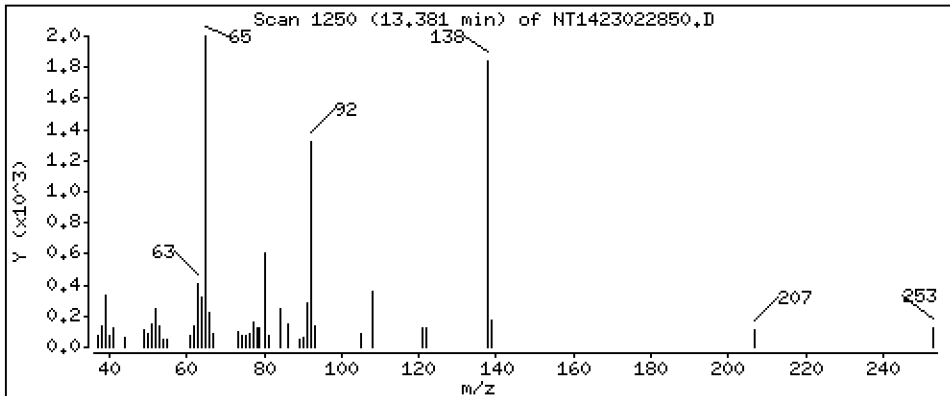
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

38 2-Nitroaniline

Concentration: 0,3674 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

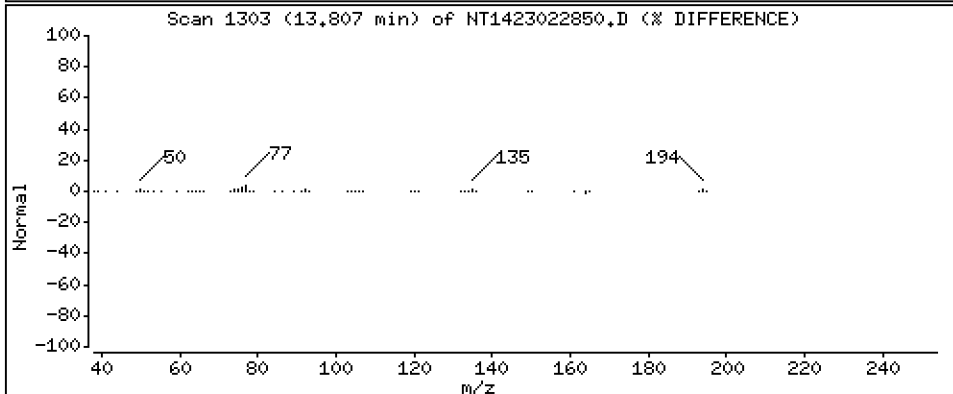
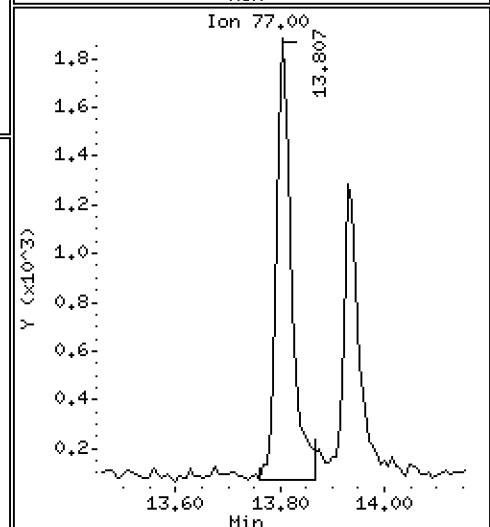
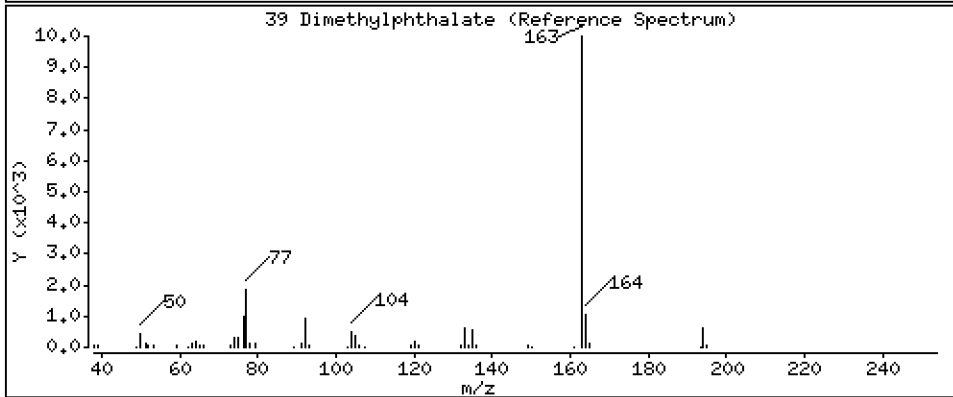
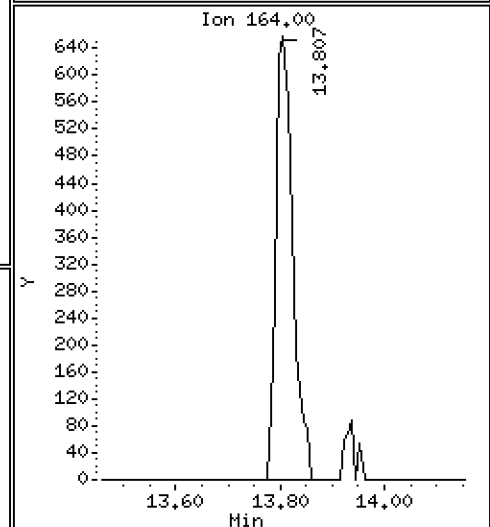
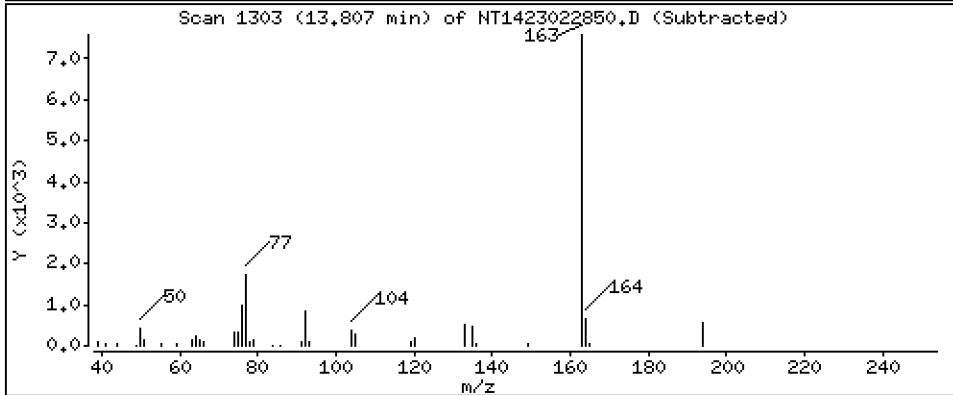
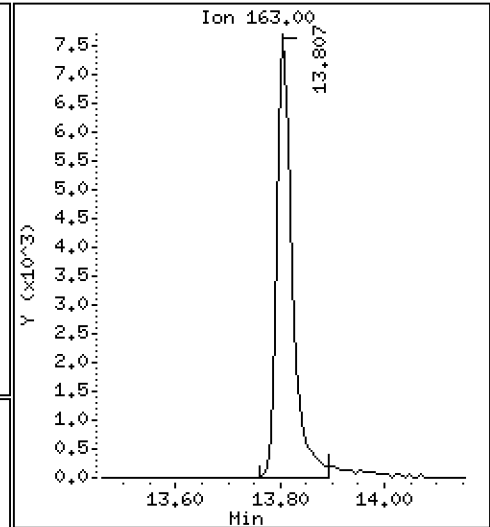
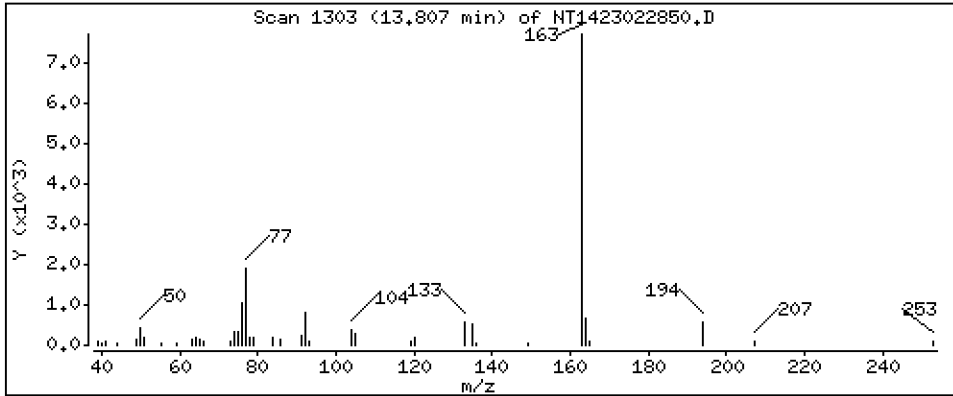
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 0,2096 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

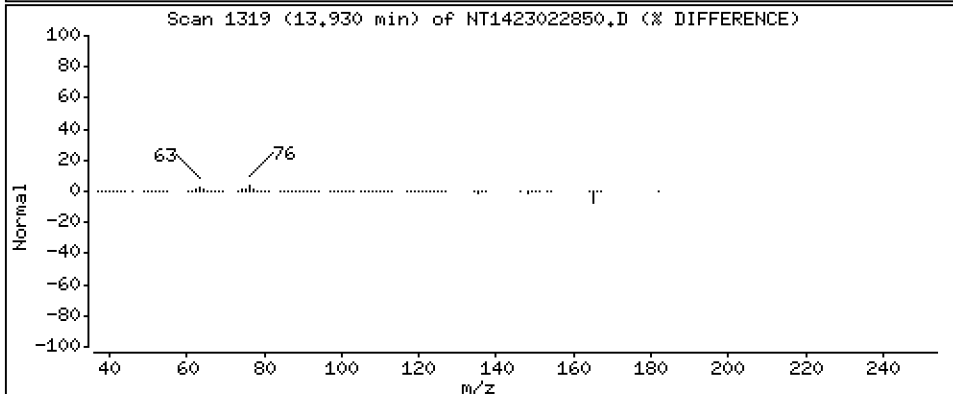
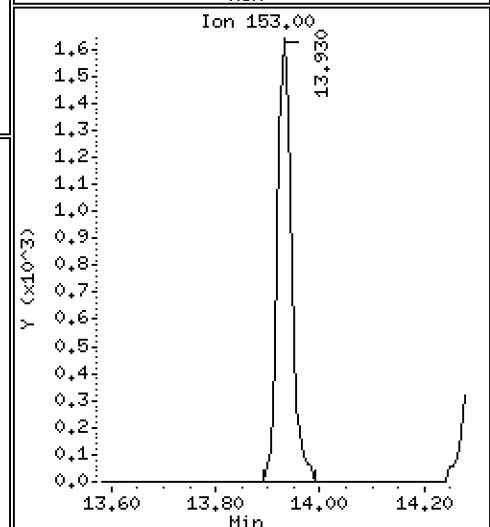
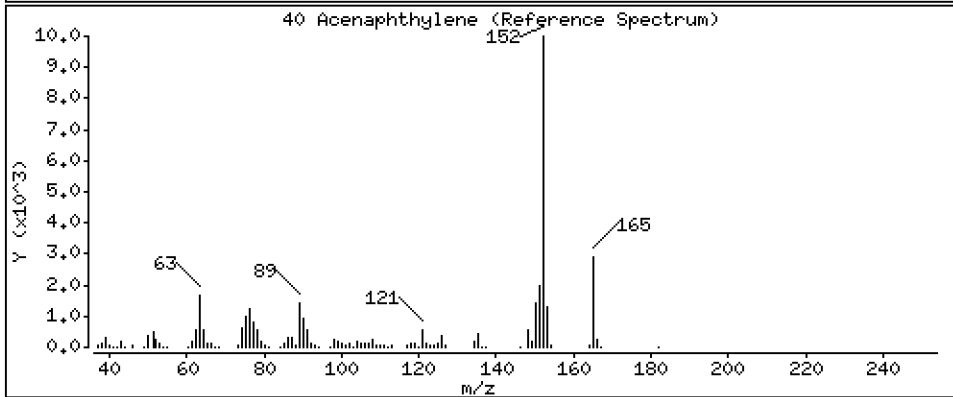
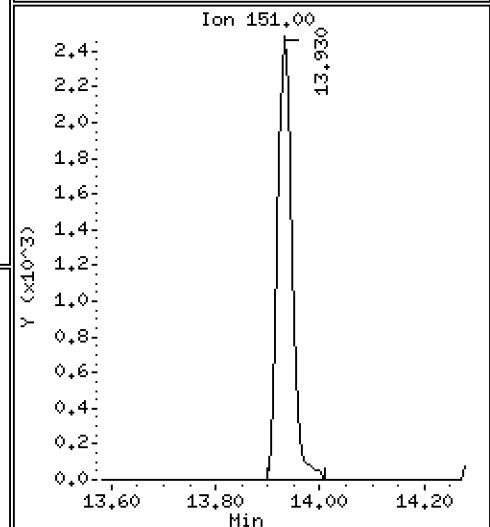
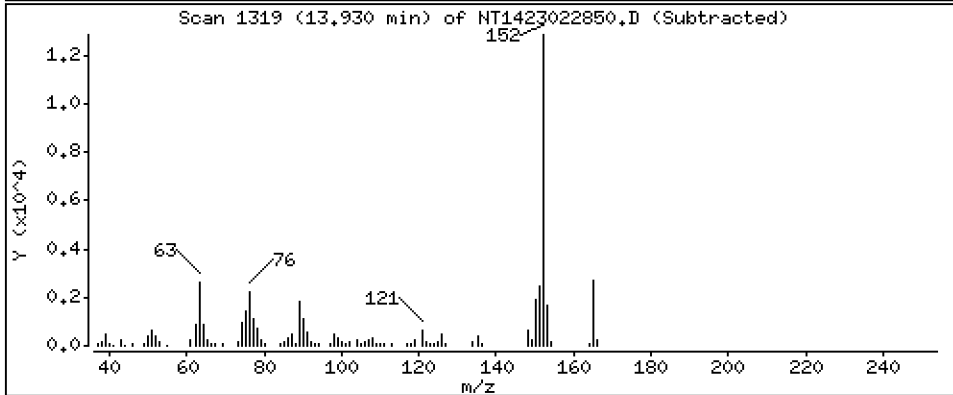
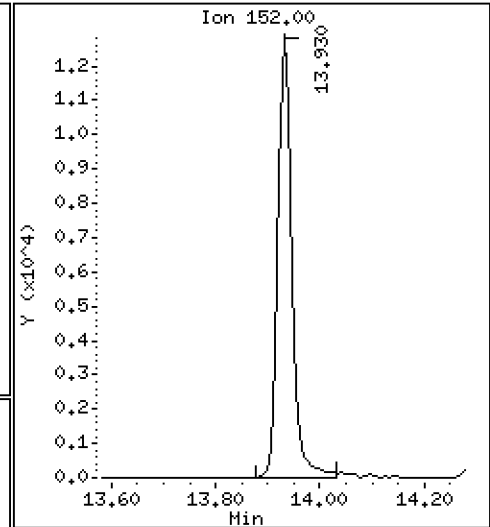
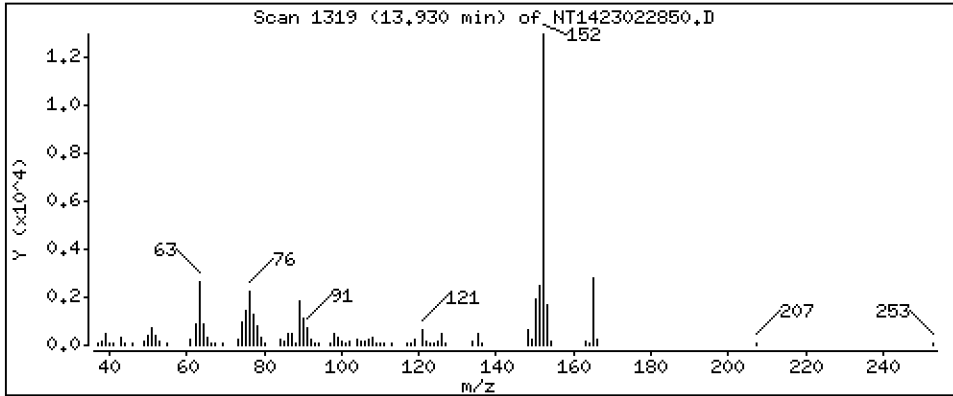
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 0,2184 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

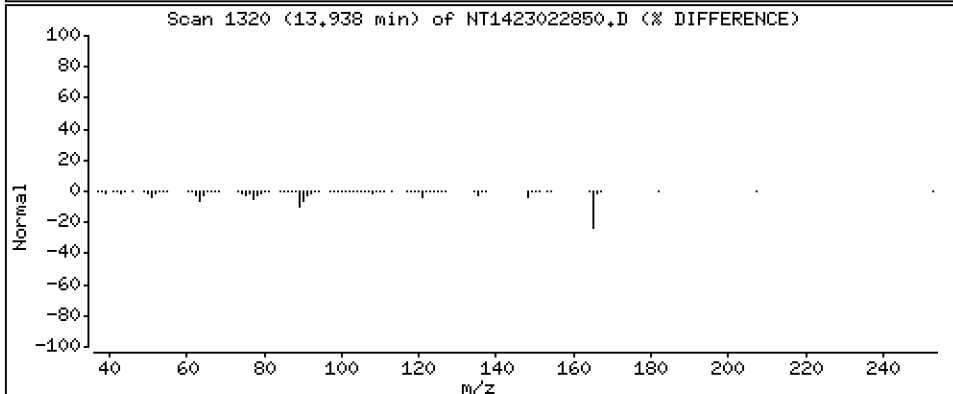
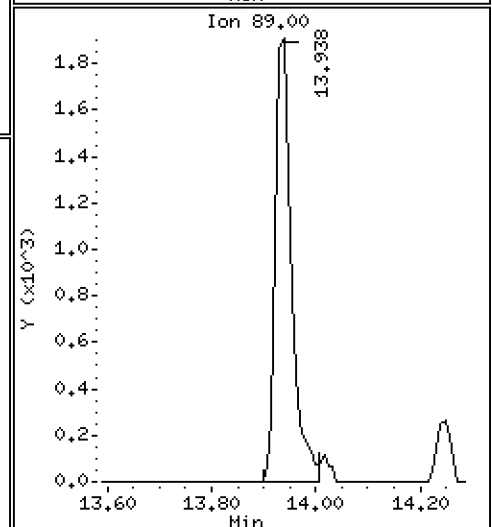
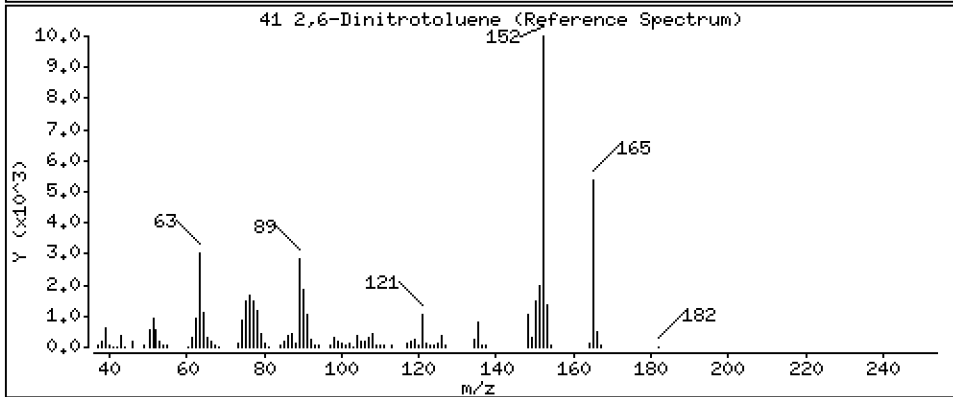
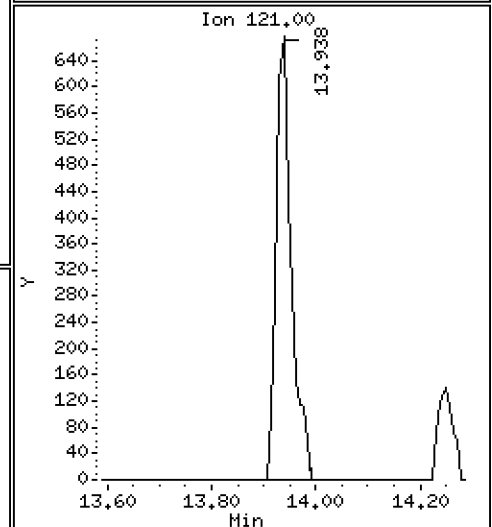
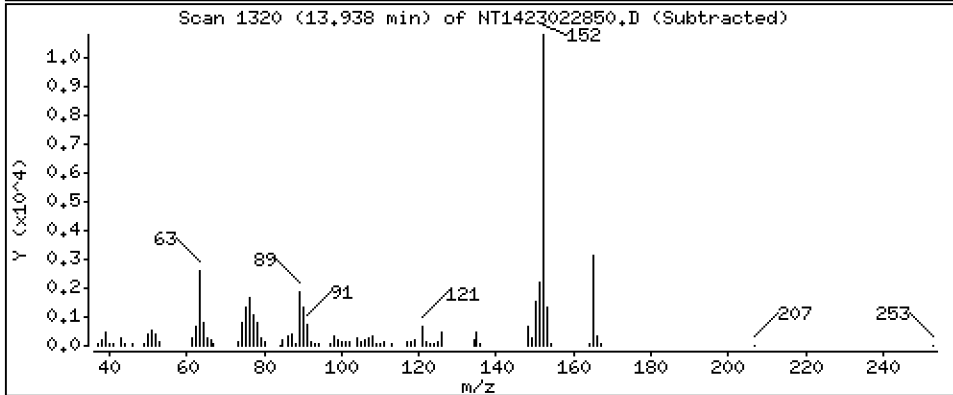
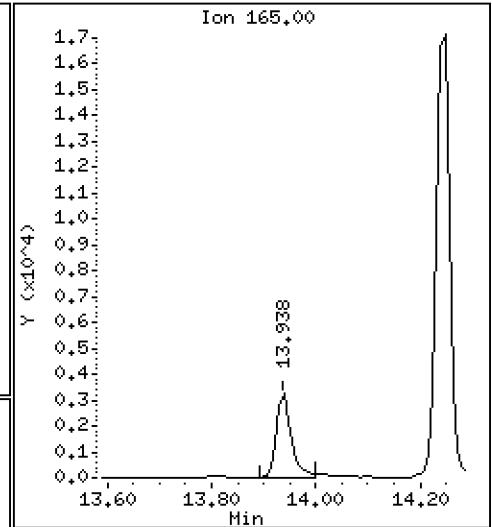
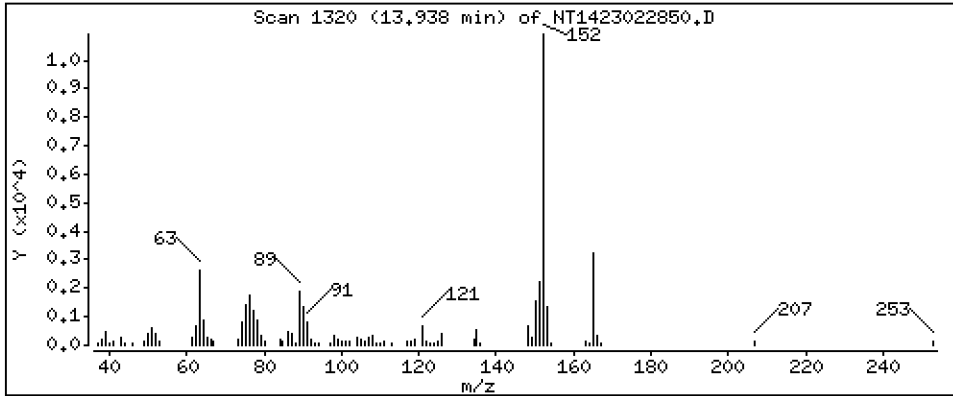
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

41 2,6-Dinitrotoluene

Concentration: 0,3645 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

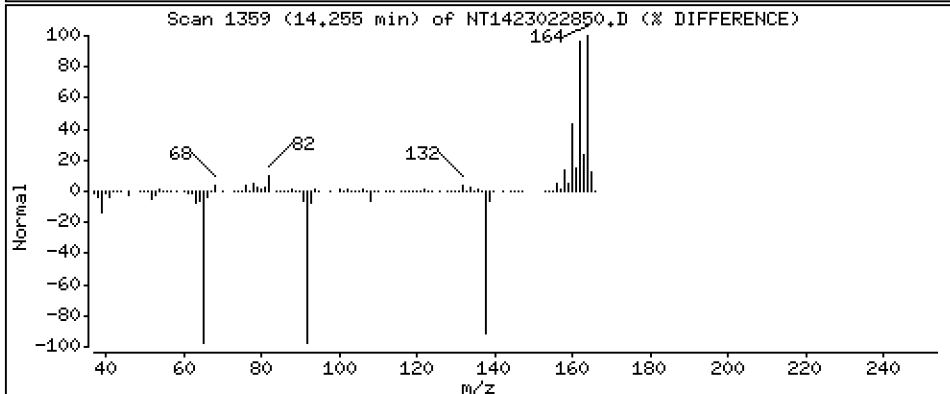
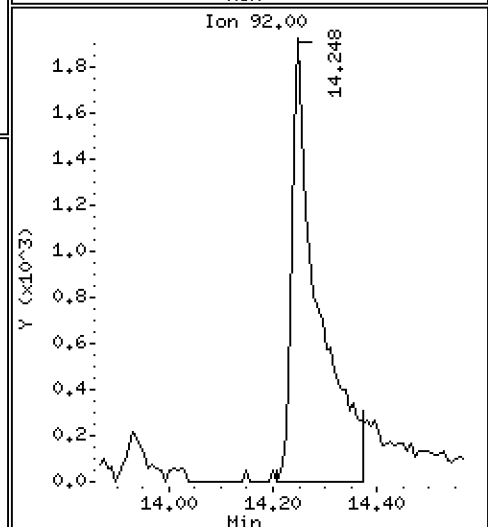
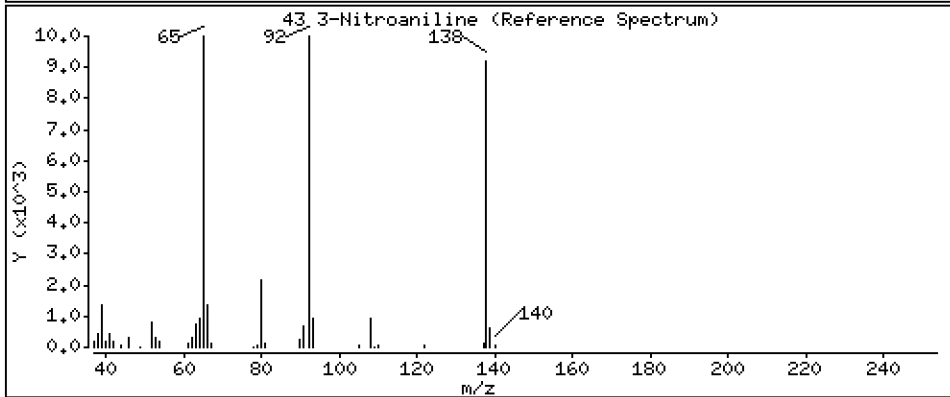
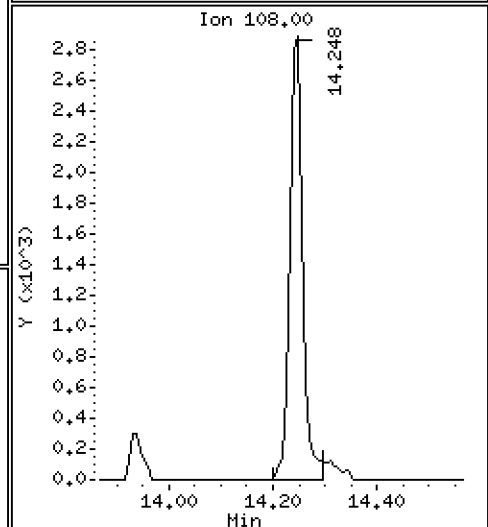
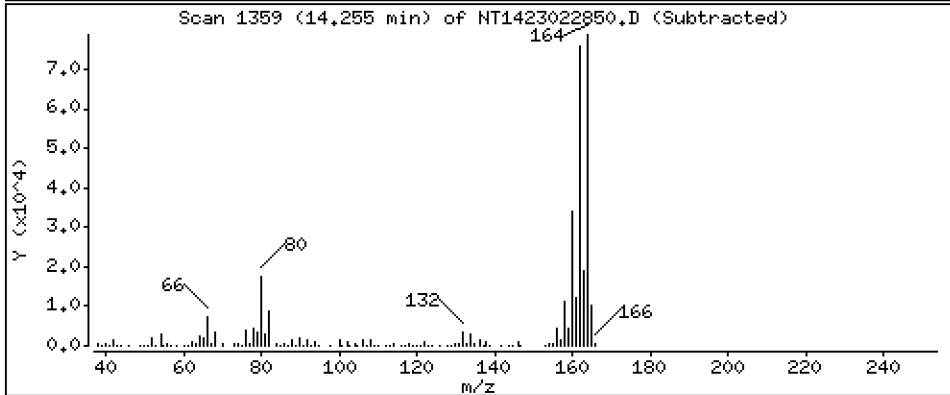
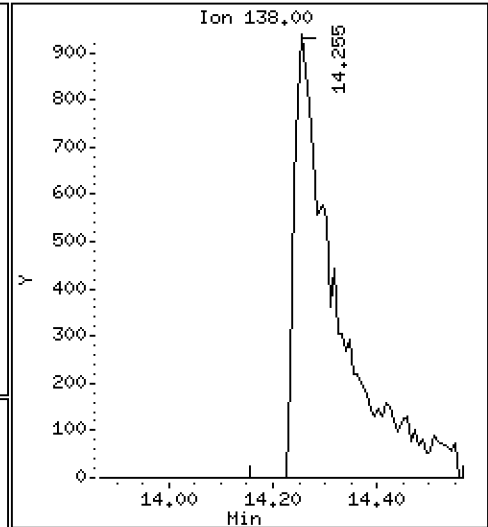
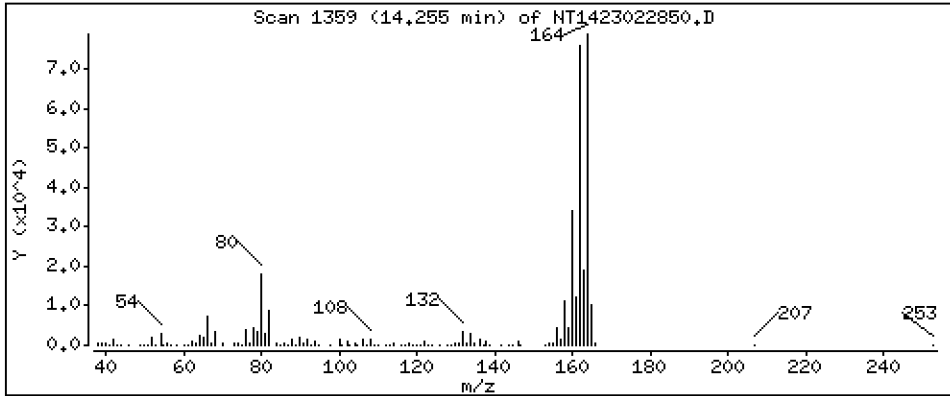
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

43 3-Nitroaniline

Concentration: 0,3086 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

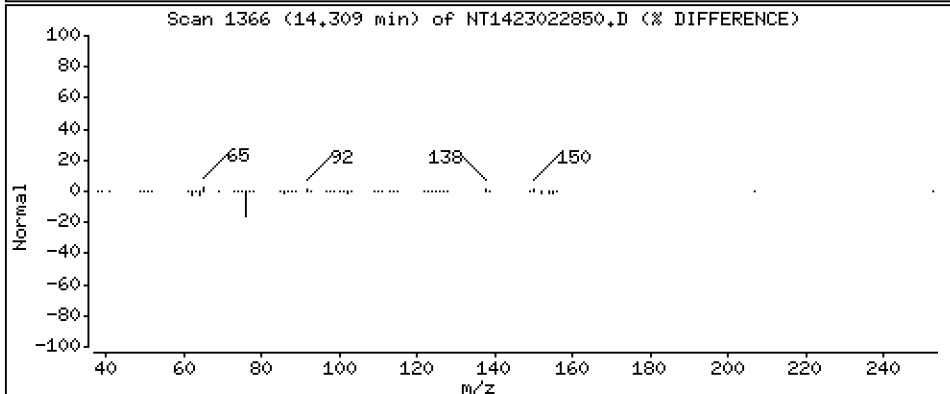
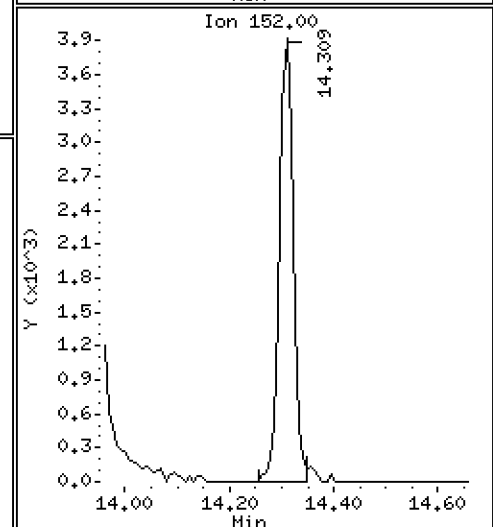
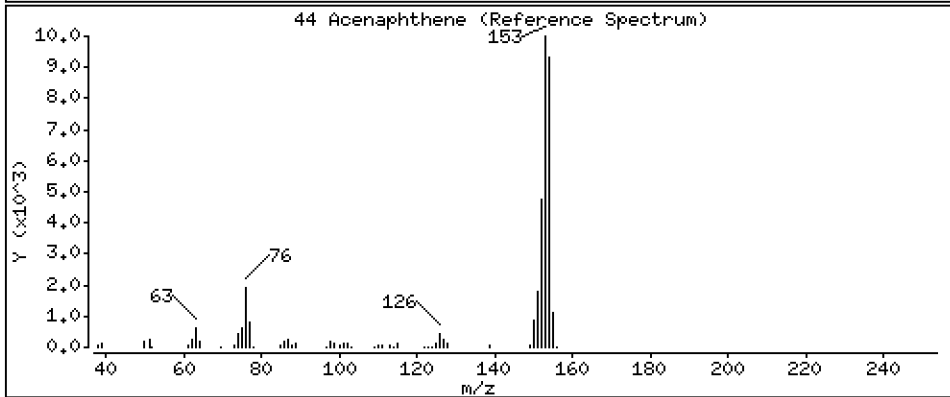
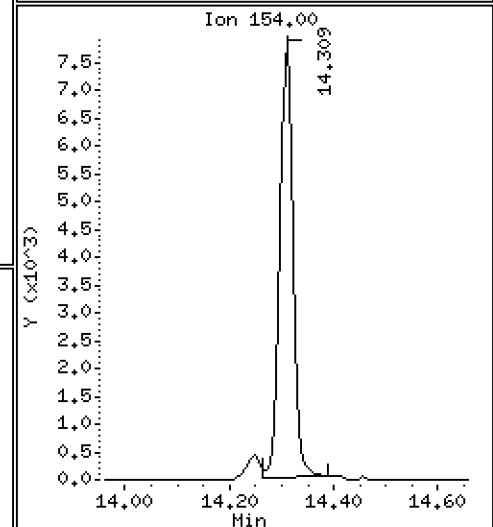
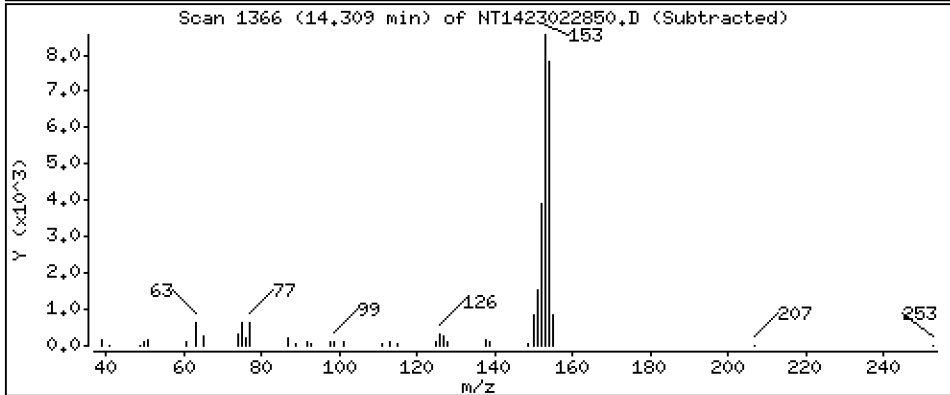
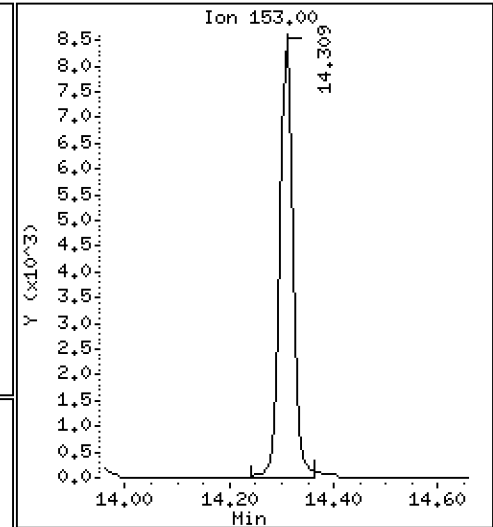
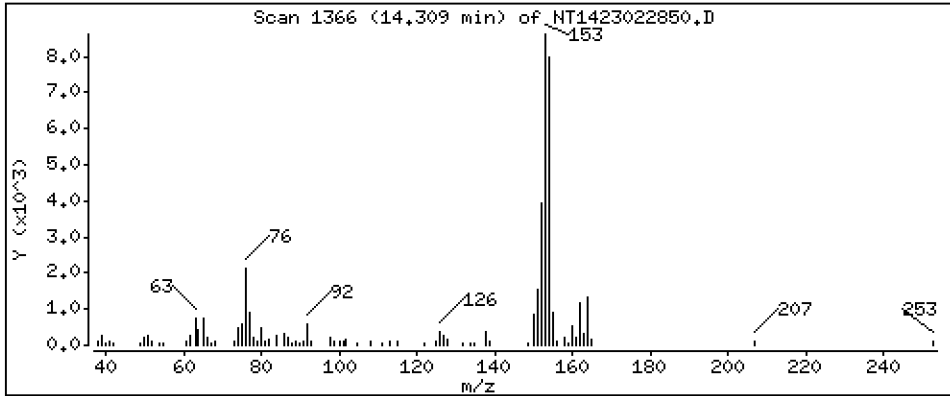
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 0,2105 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

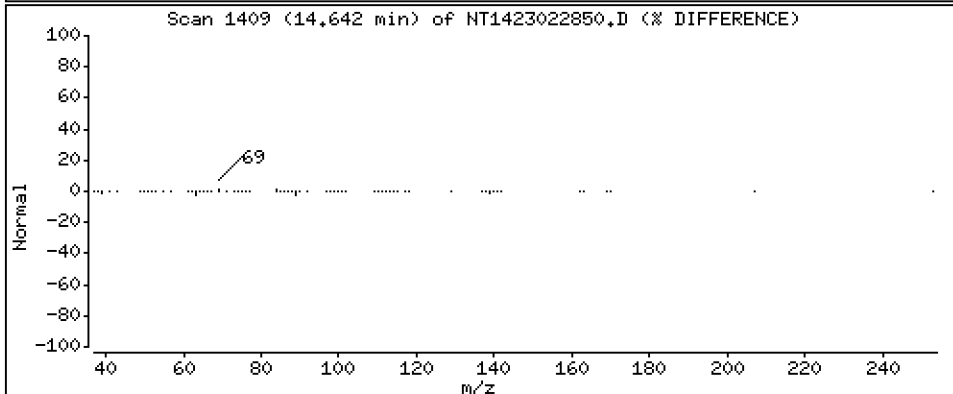
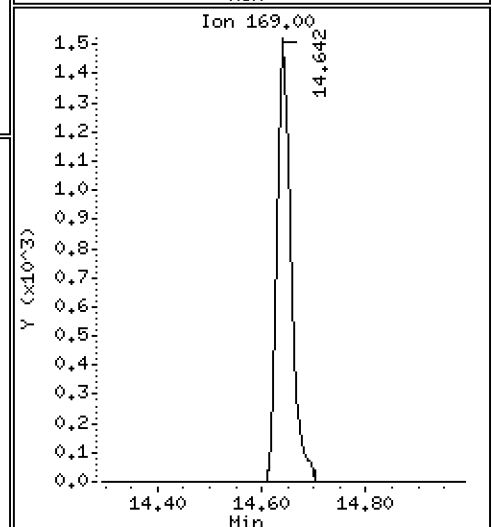
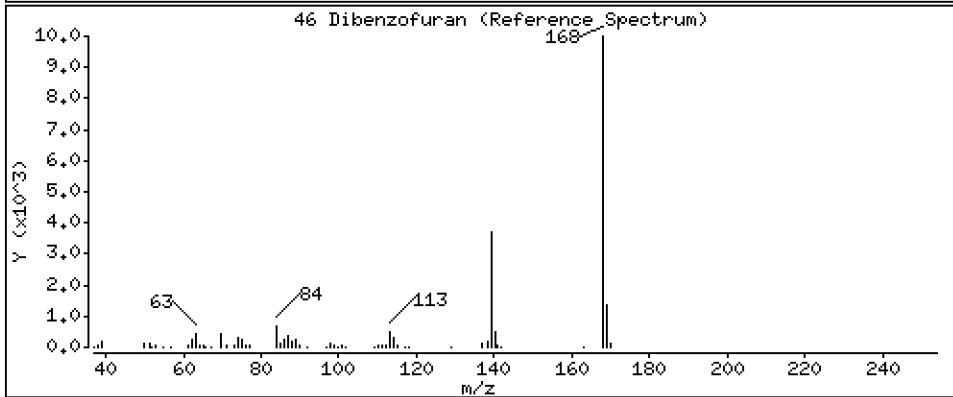
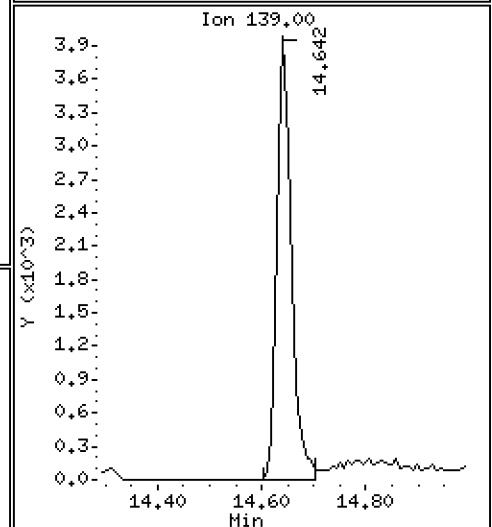
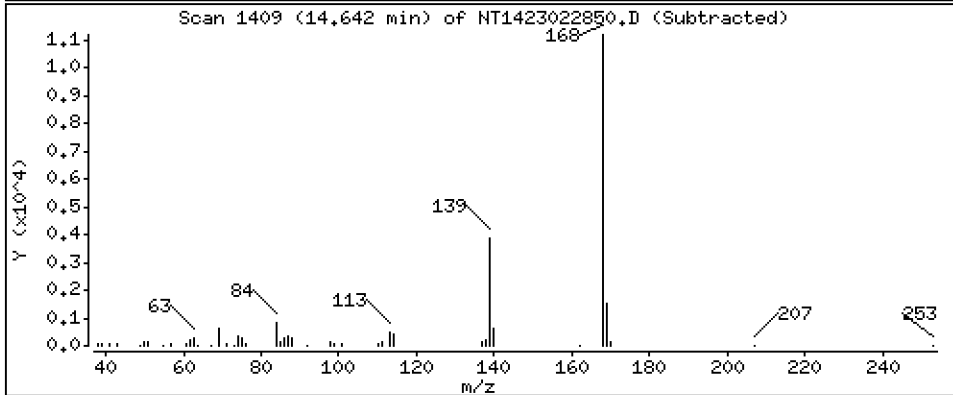
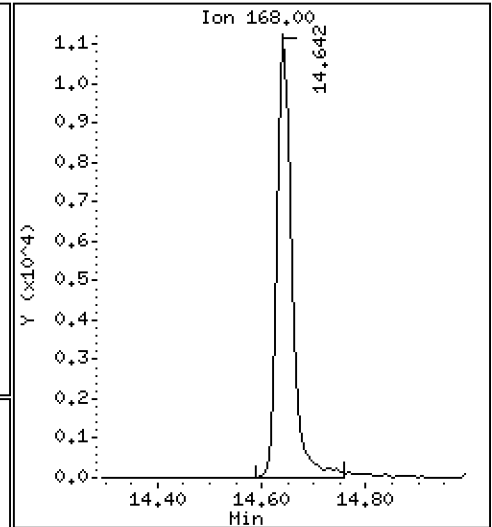
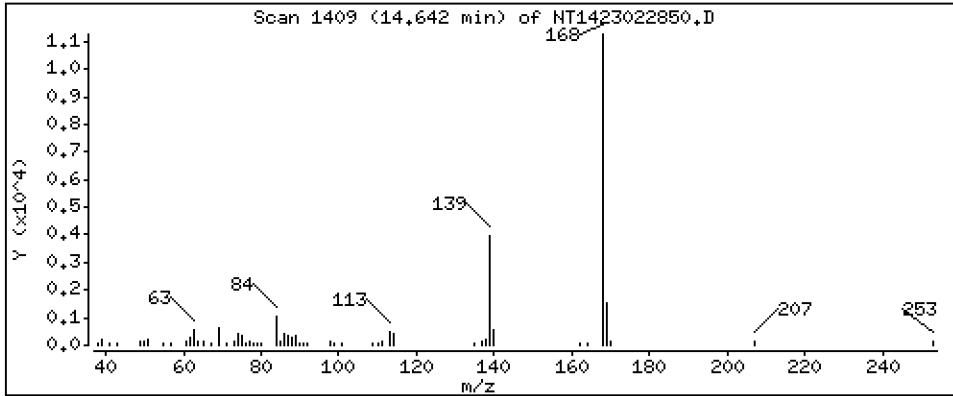
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 0,2001 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

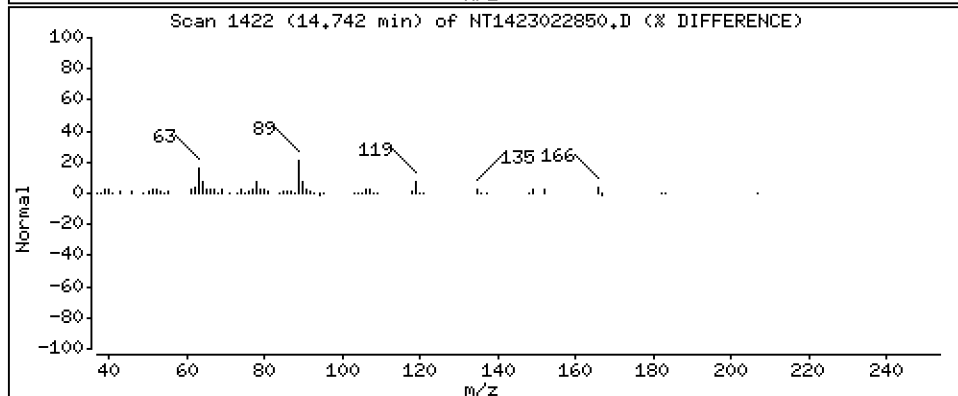
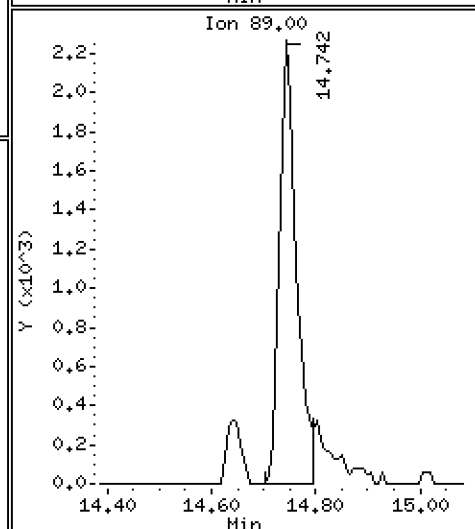
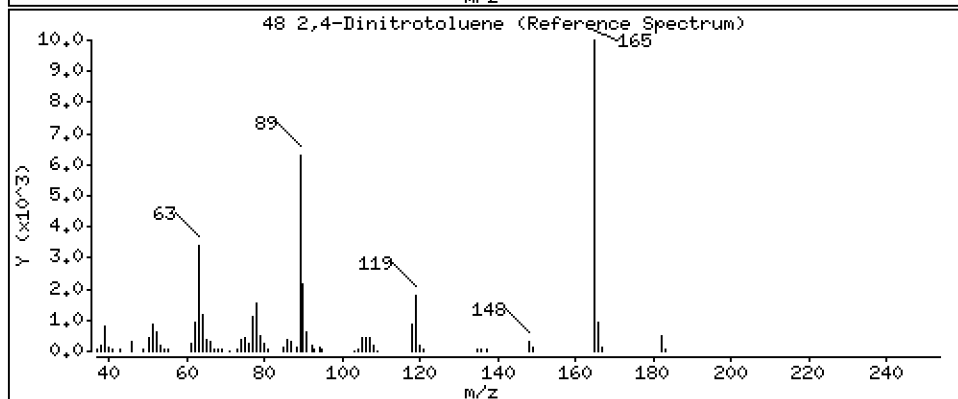
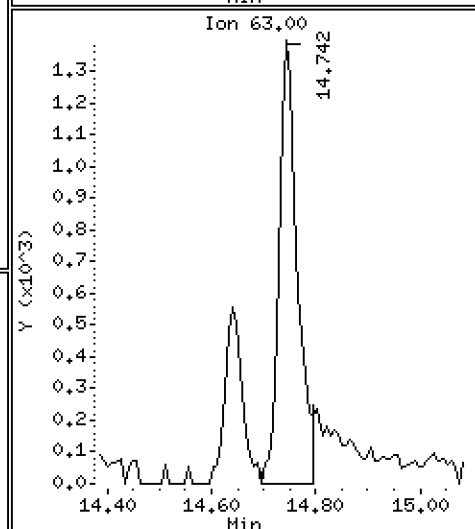
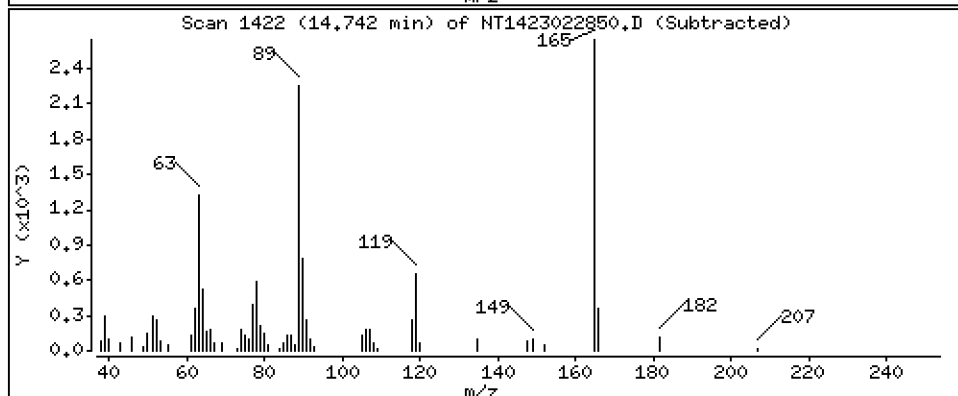
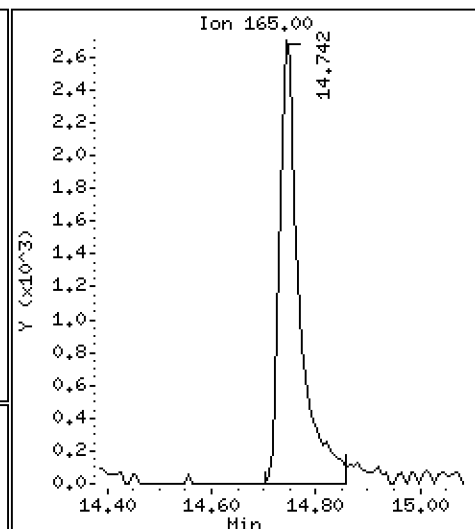
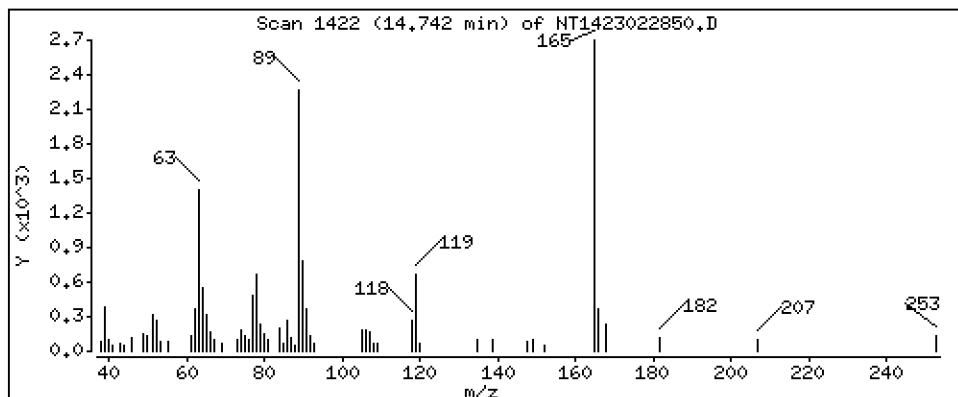
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

48 2,4-Dinitrotoluene

Concentration: 0.2942 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

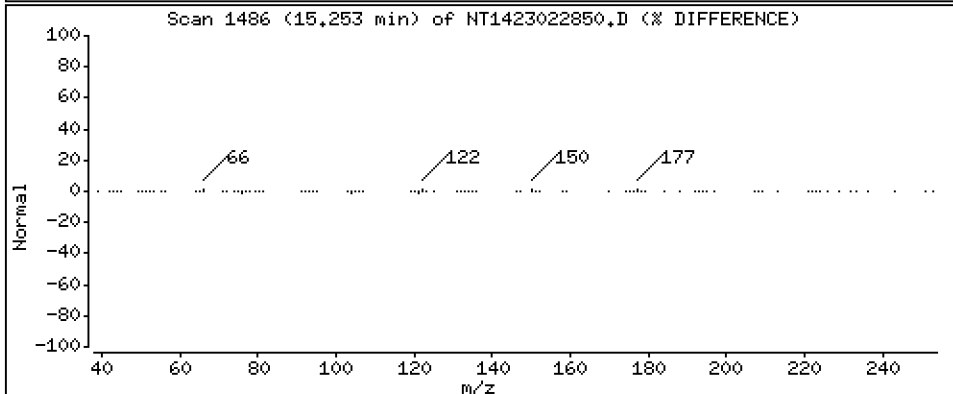
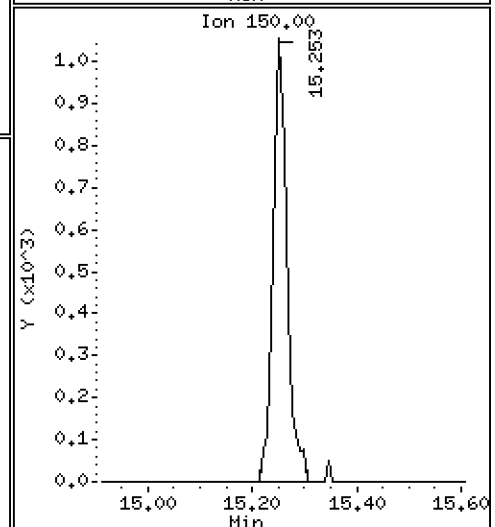
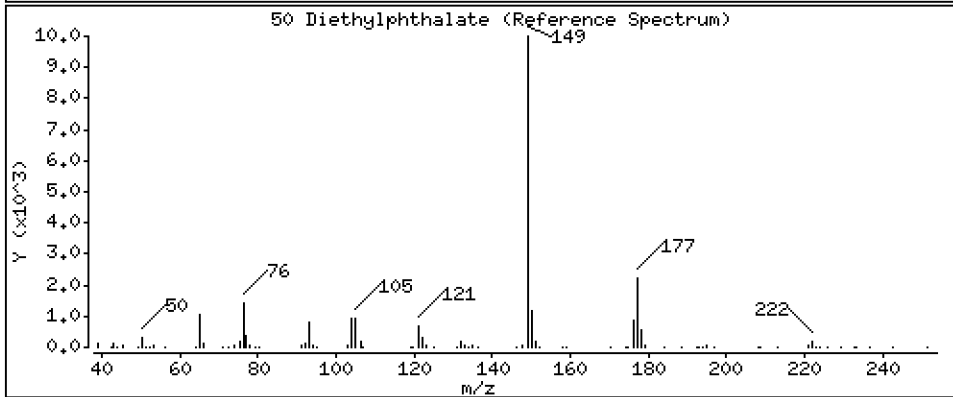
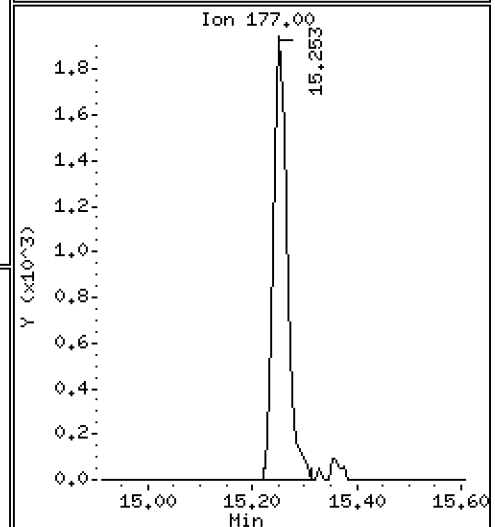
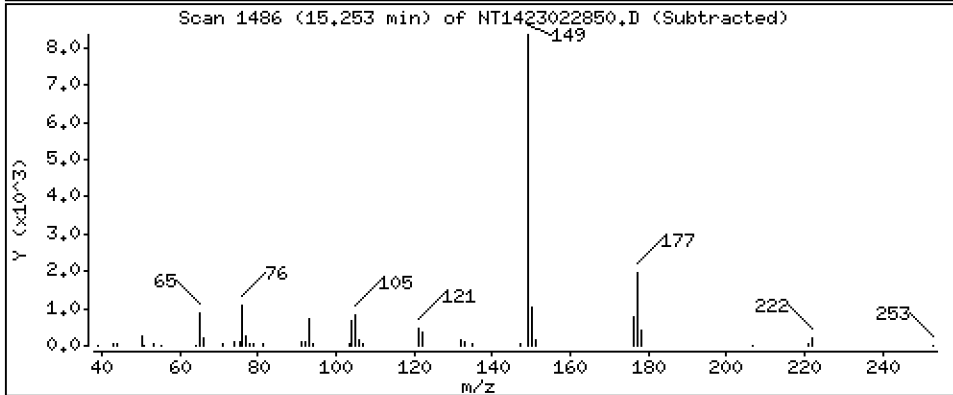
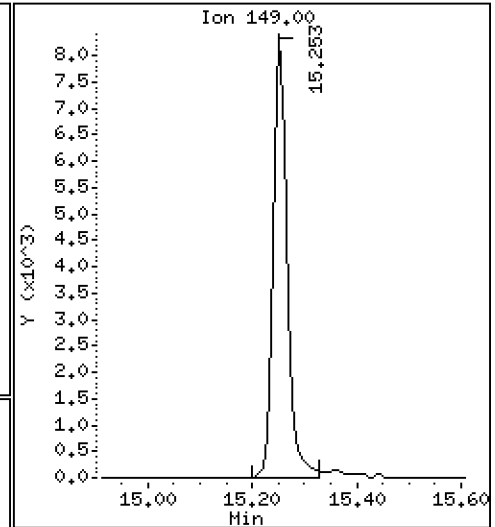
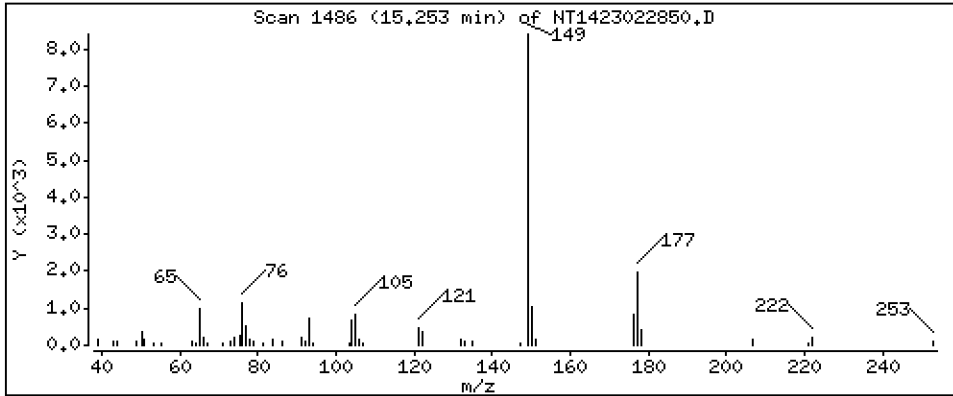
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 0,2168 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

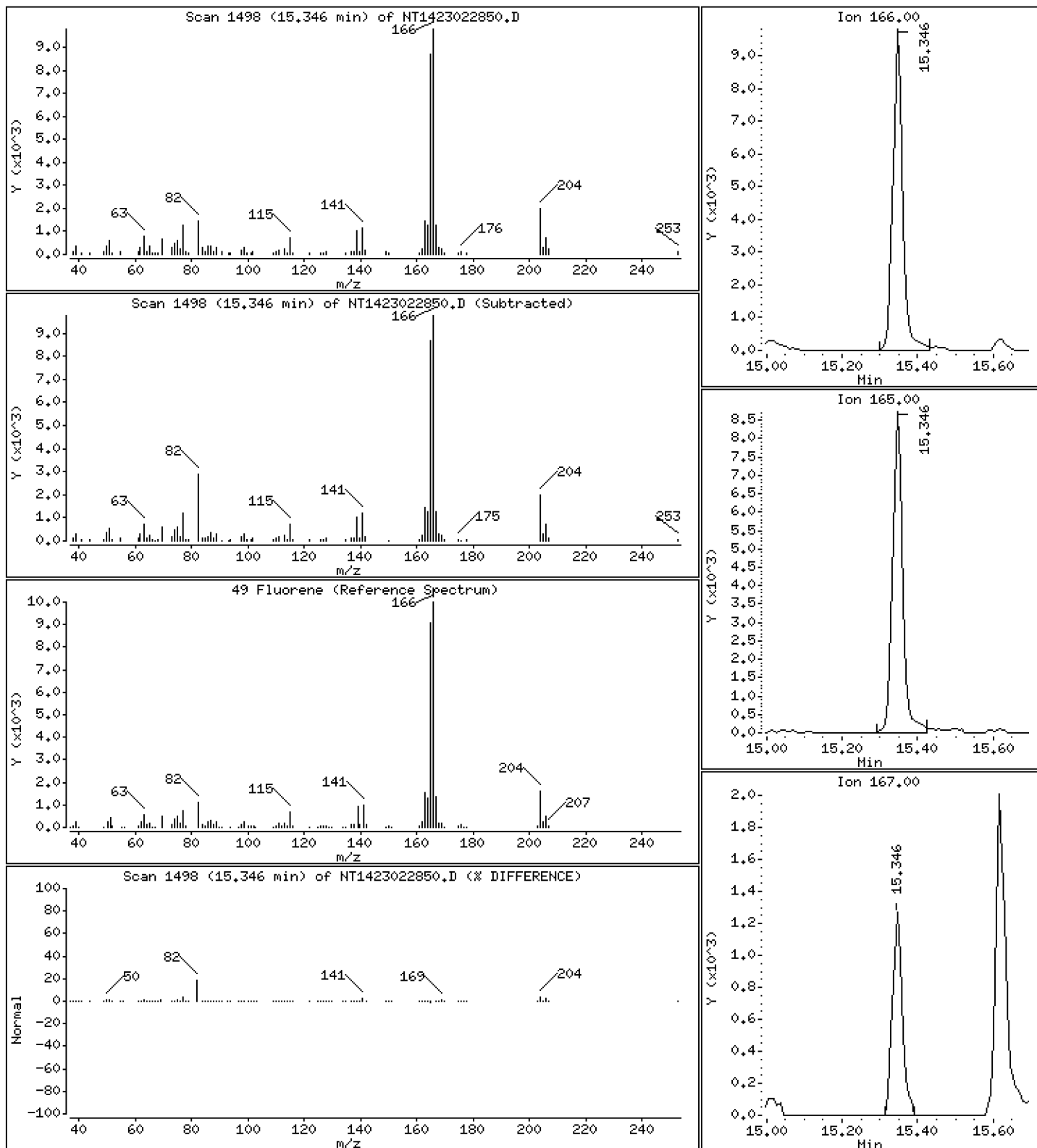
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 0,2121 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

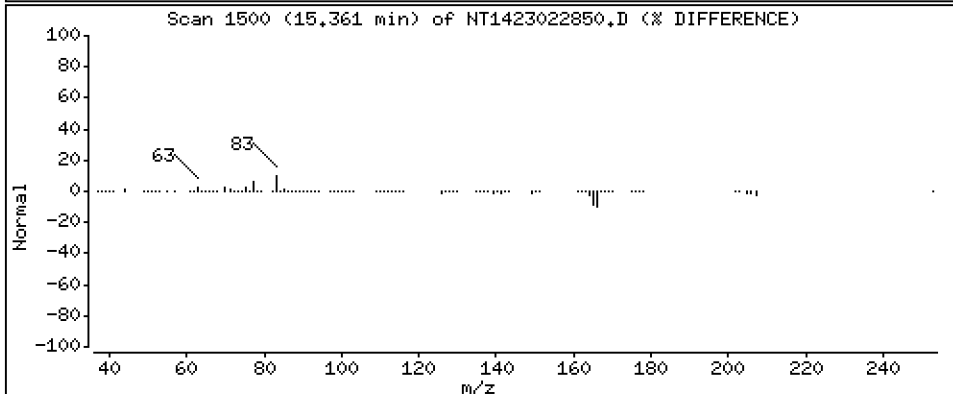
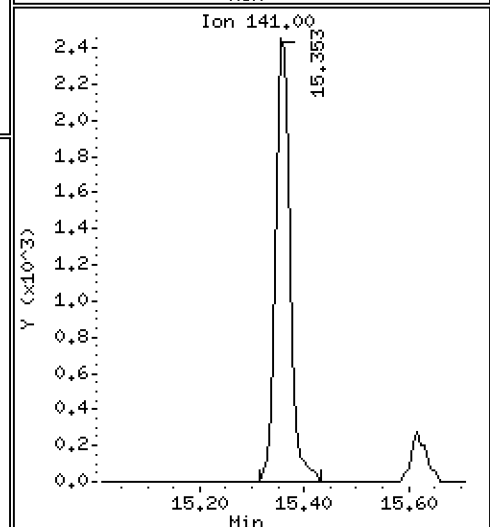
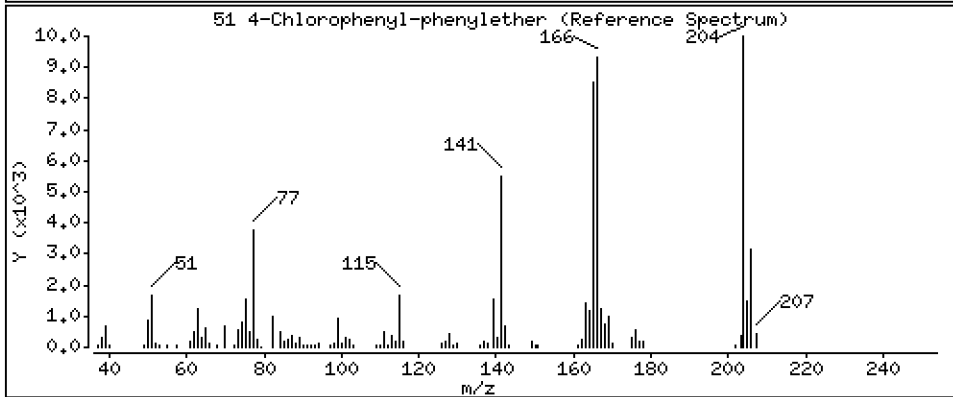
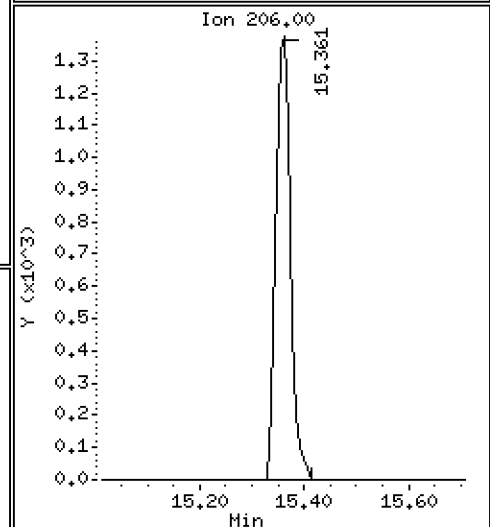
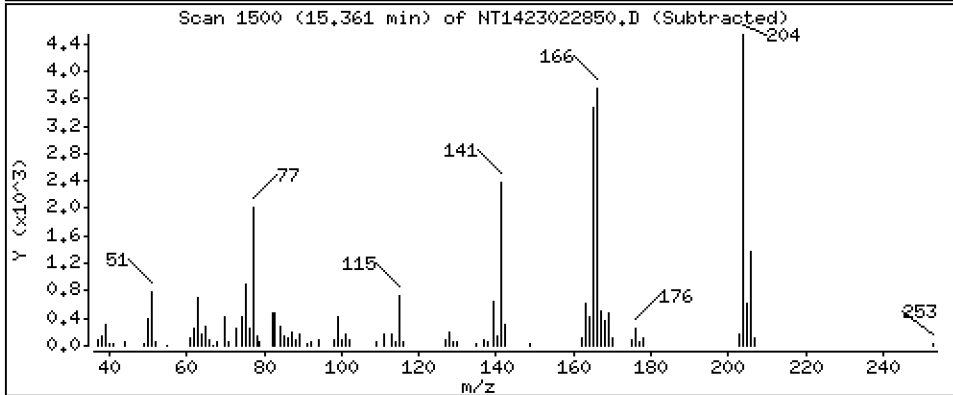
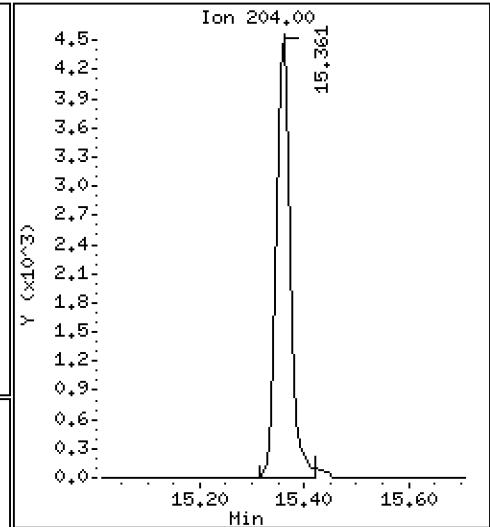
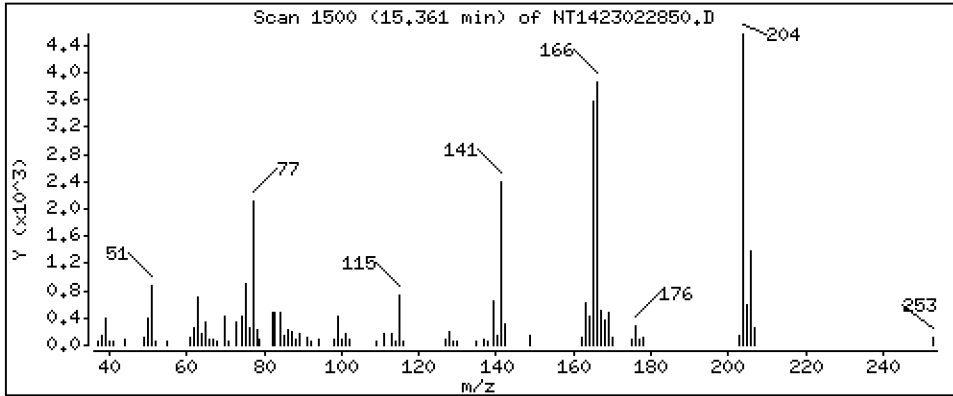
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 0,1961 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

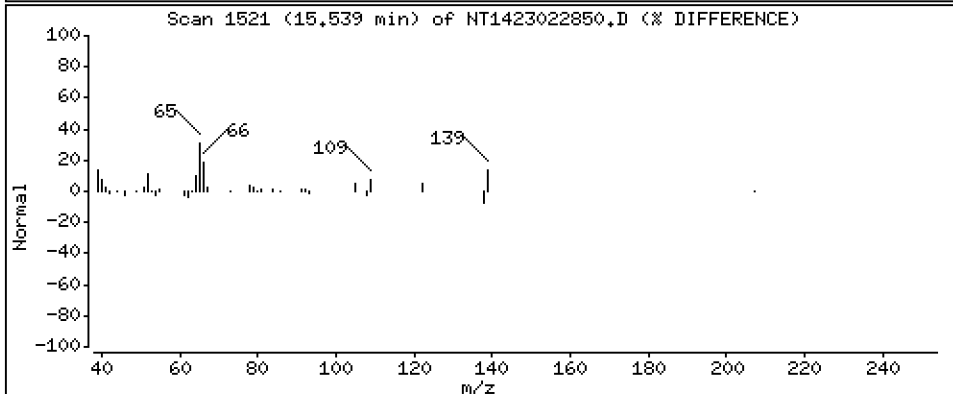
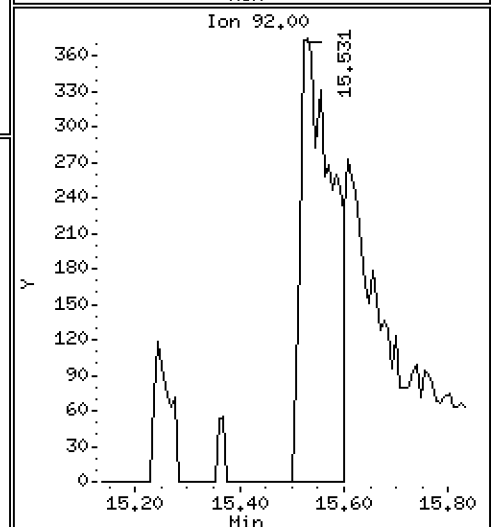
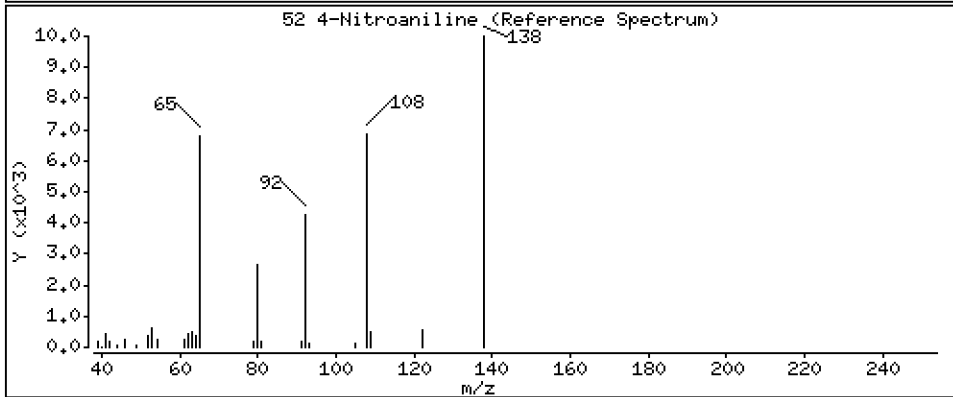
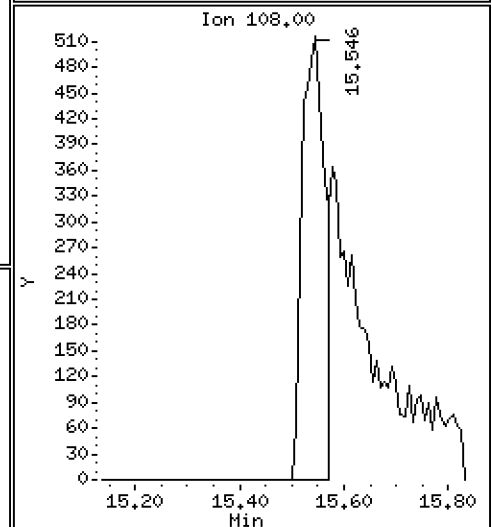
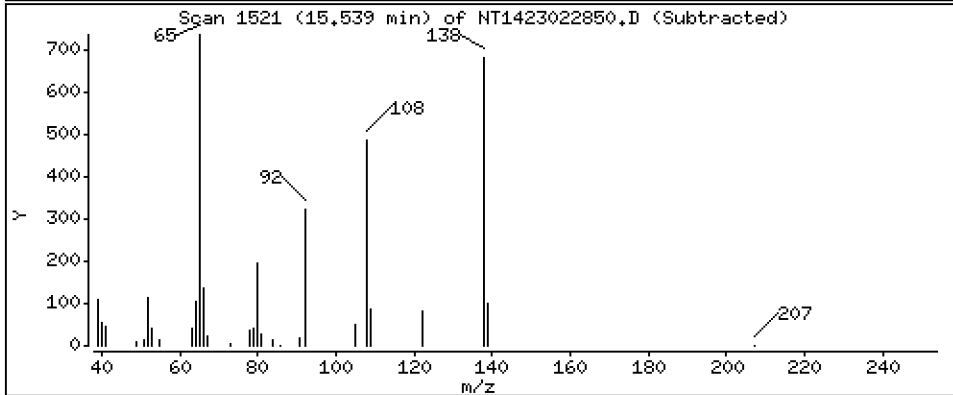
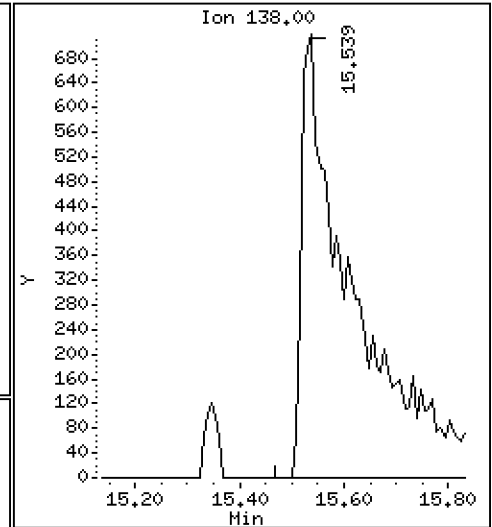
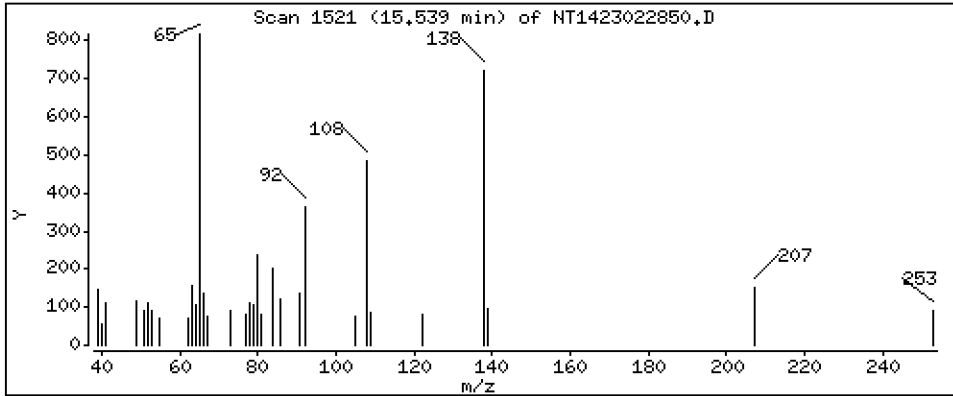
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

Concentration: 0,2914 ug/mL

52 4-Nitroaniline



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

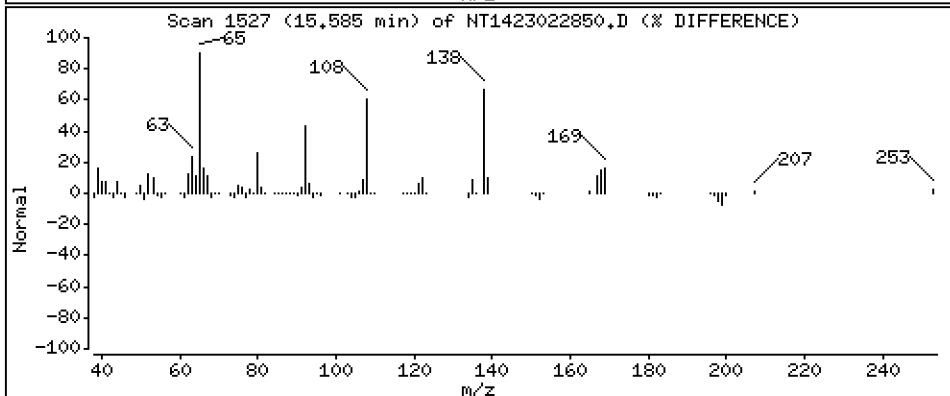
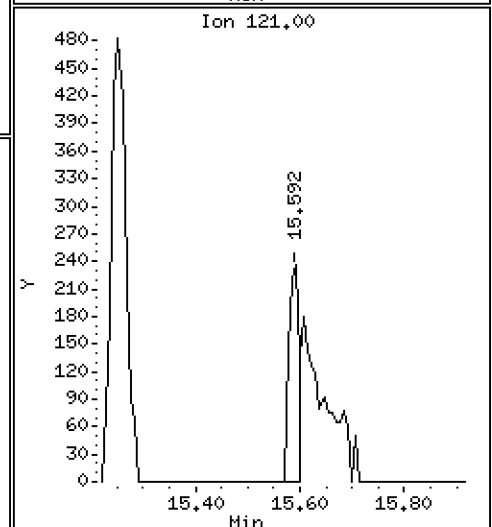
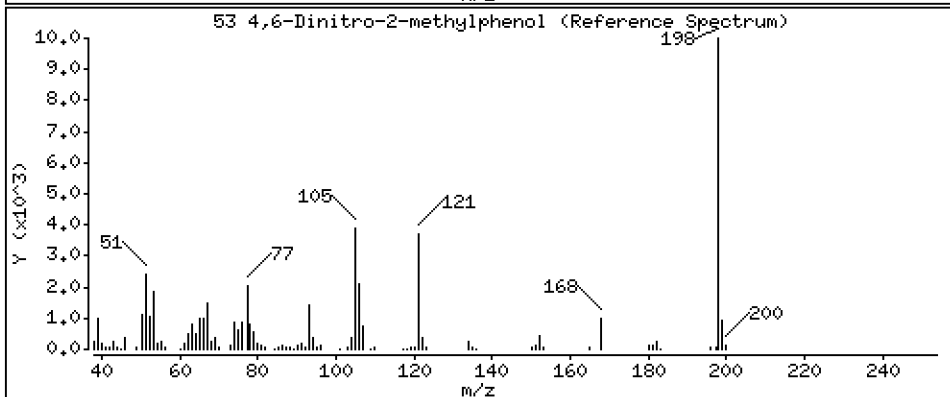
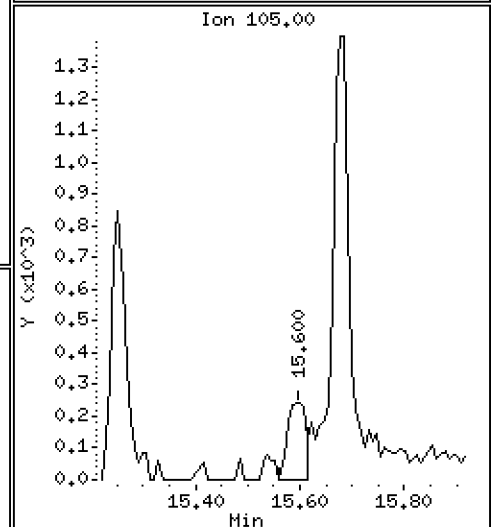
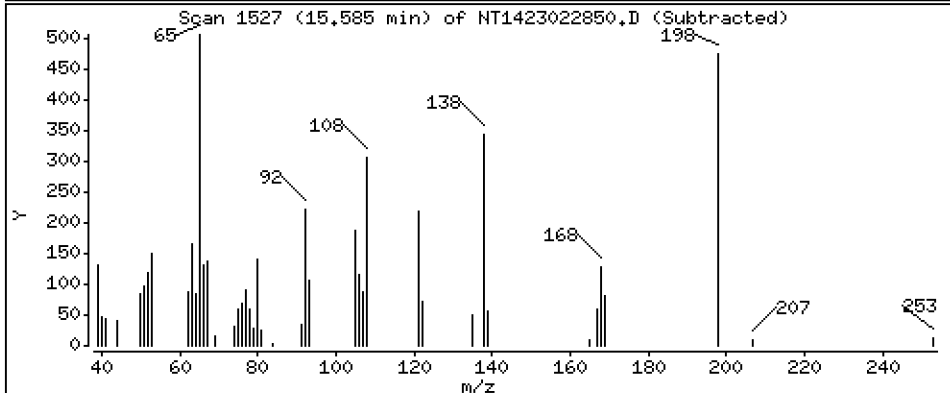
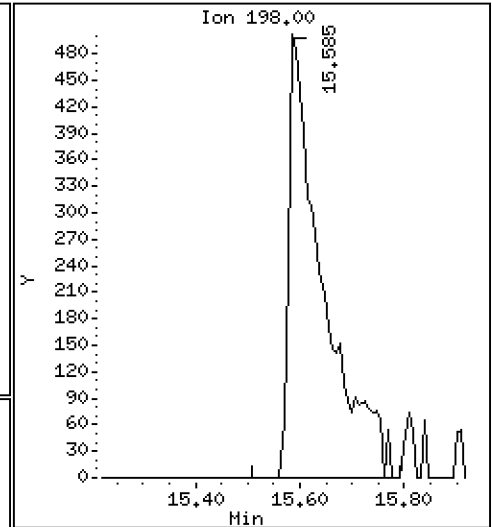
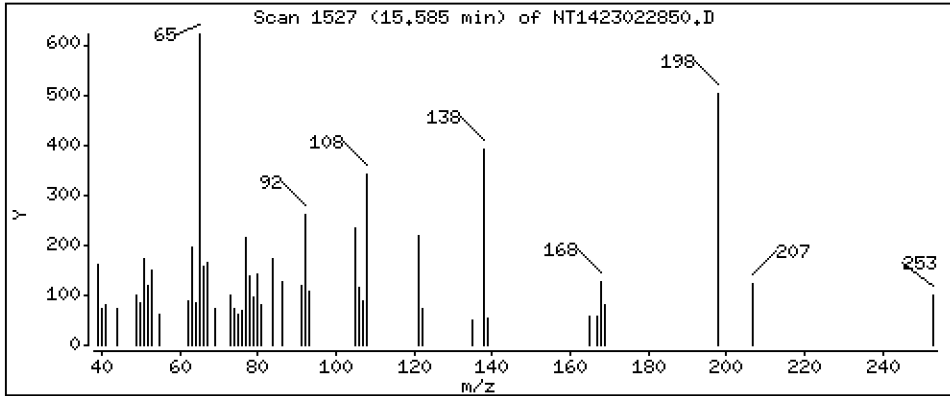
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

53 4,6-Dinitro-2-methylphenol

Concentration: 0.1648 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

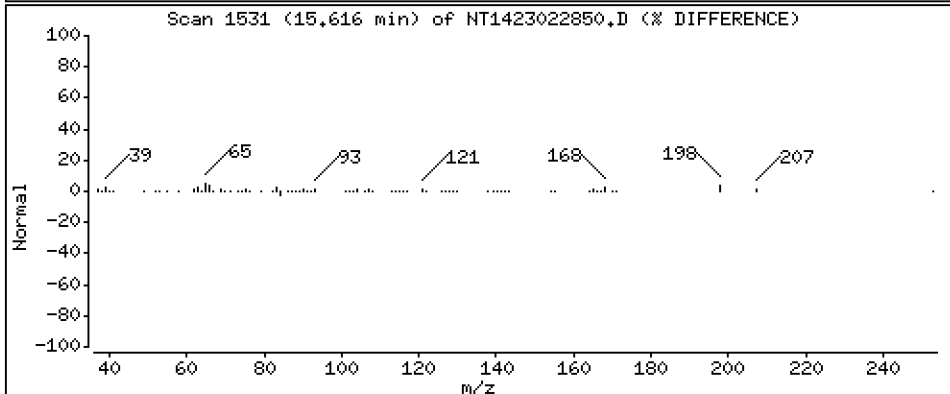
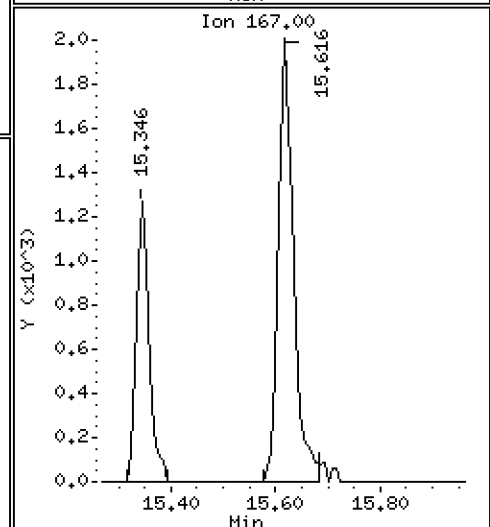
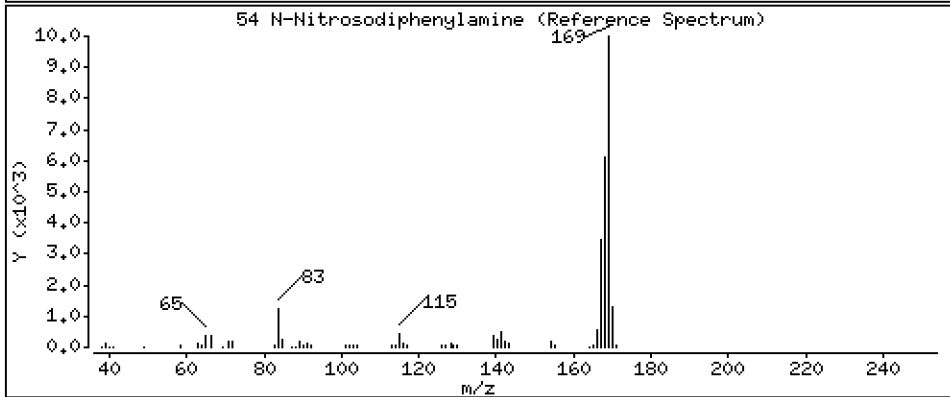
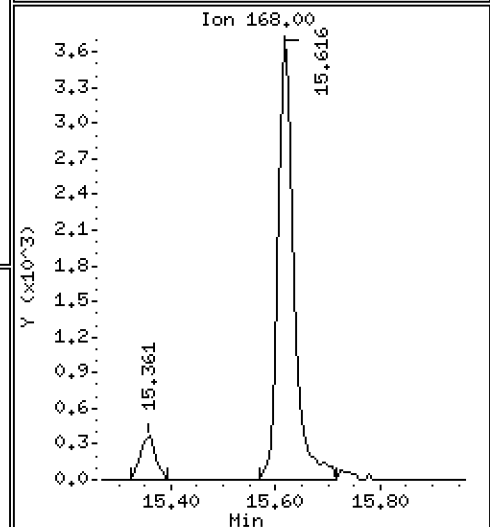
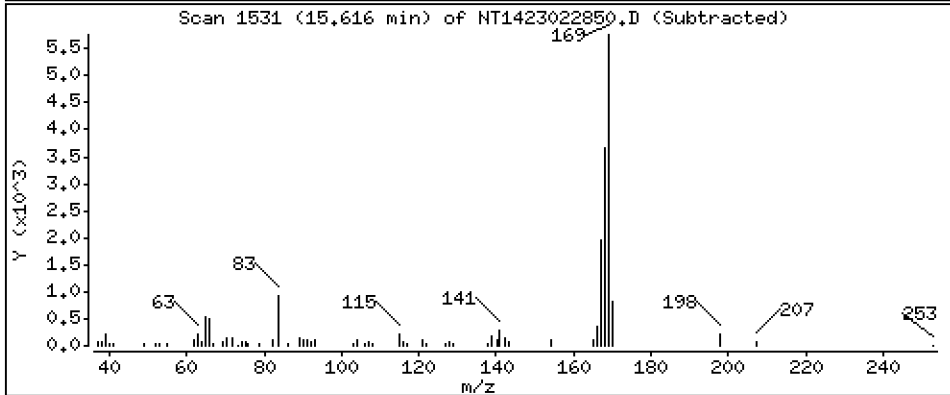
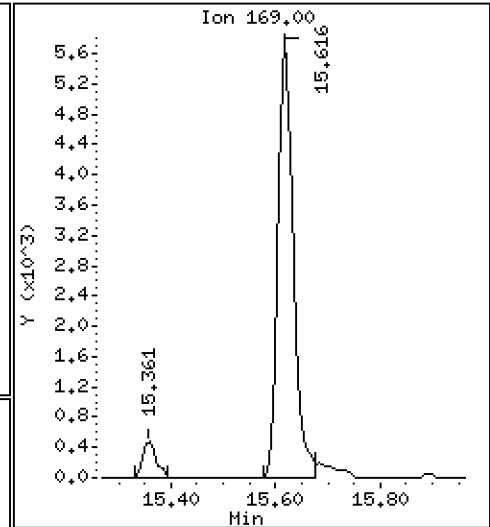
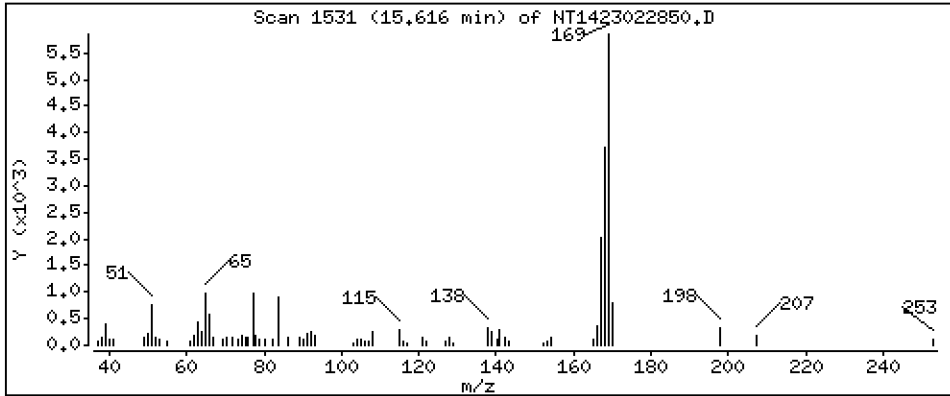
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

54 N-Nitrosodiphenylamine

Concentration: 0,2165 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

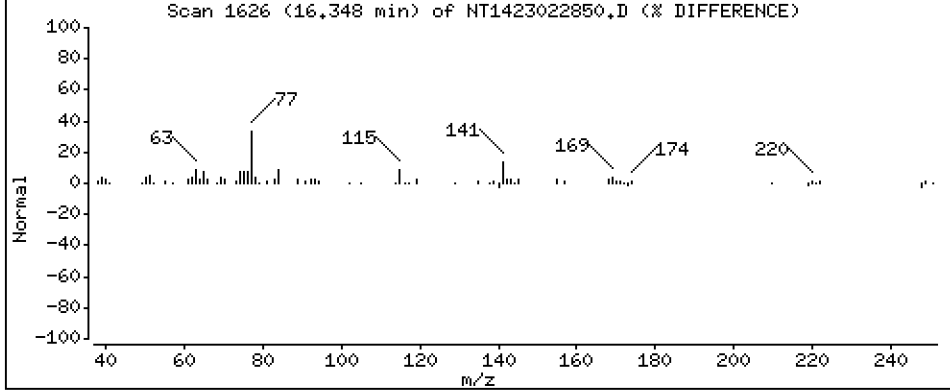
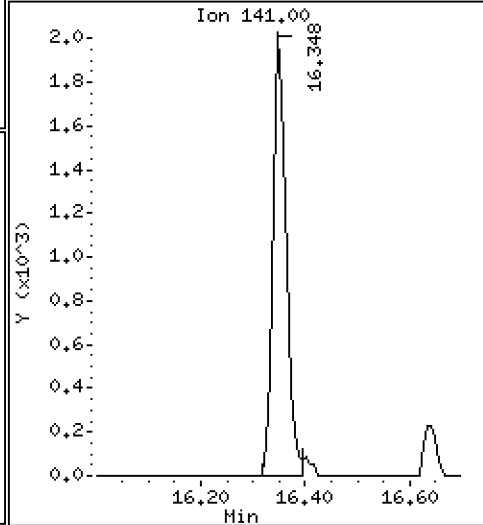
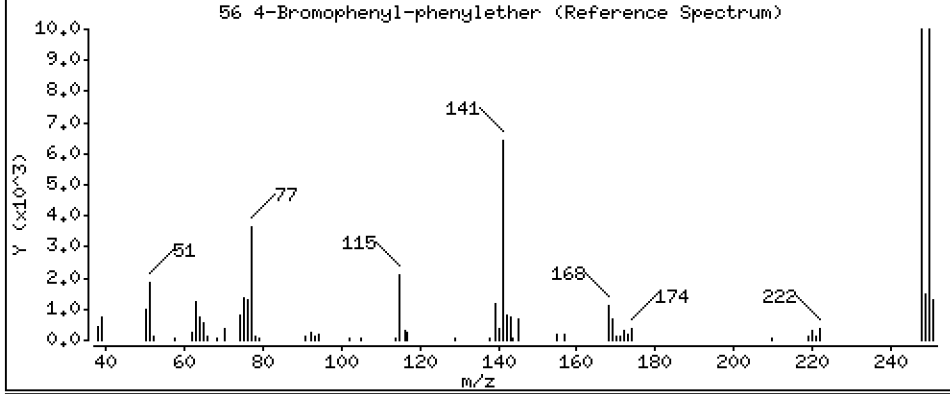
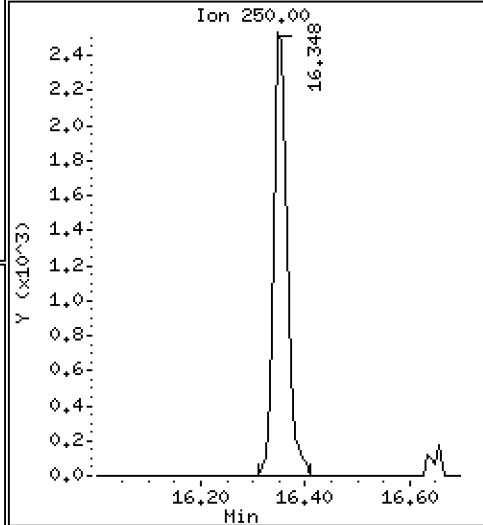
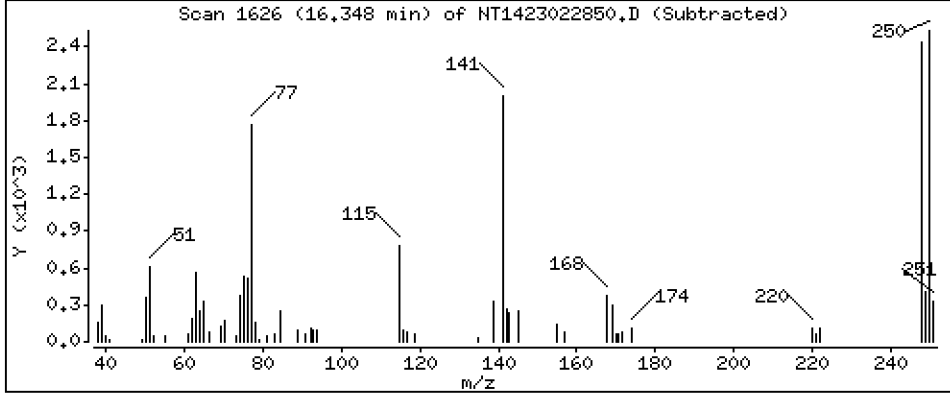
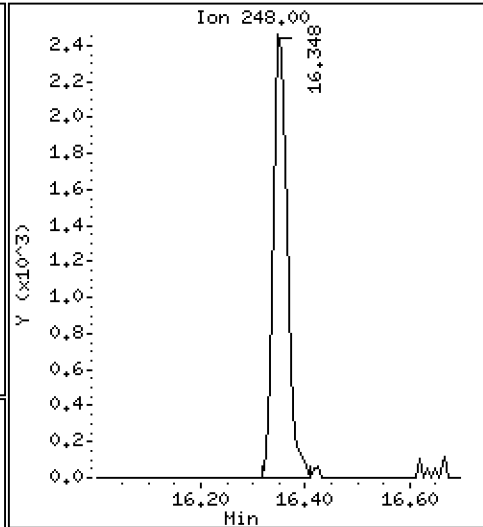
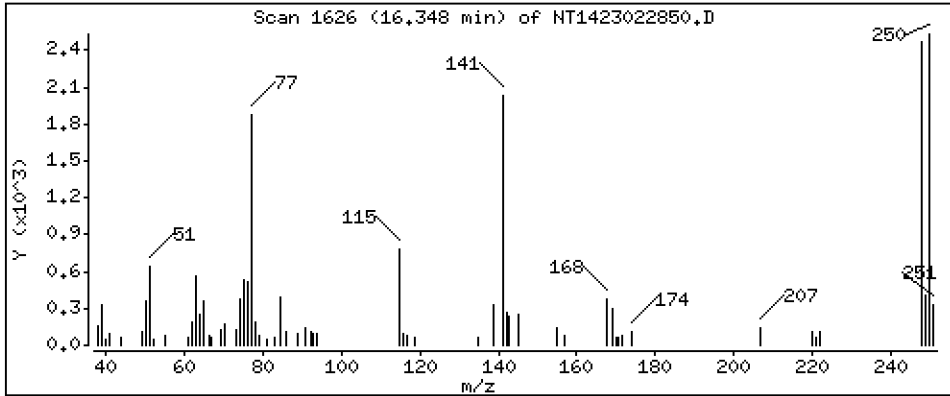
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 0,1925 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

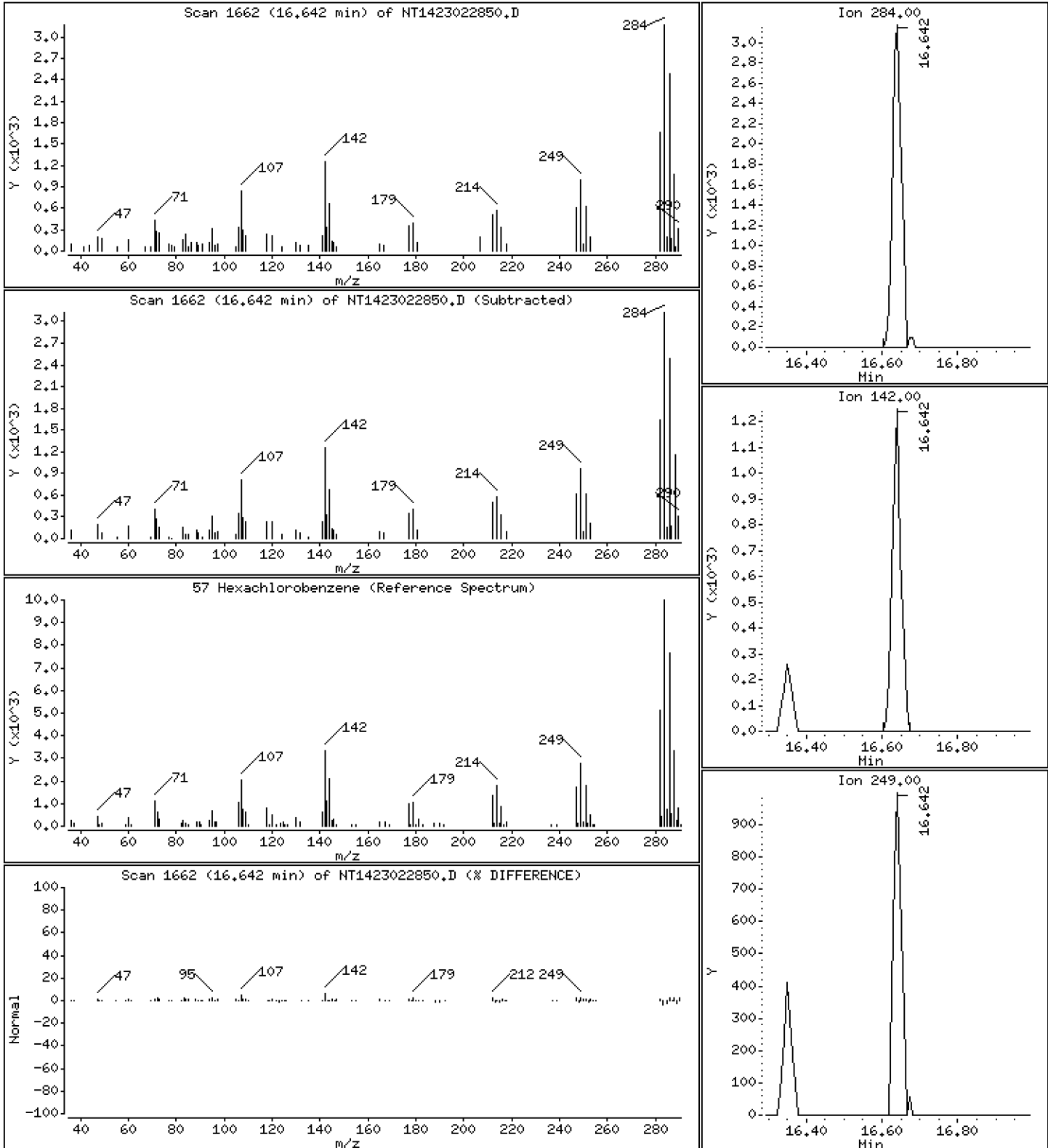
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

57 Hexachlorobenzene

Concentration: 0.2014 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

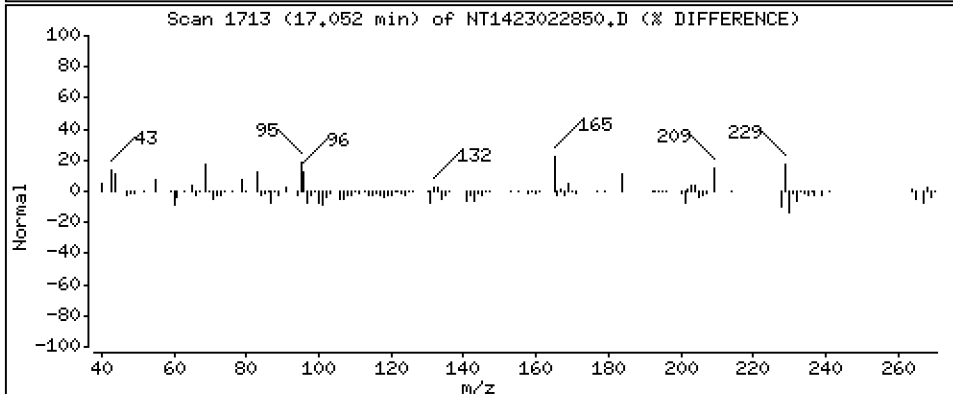
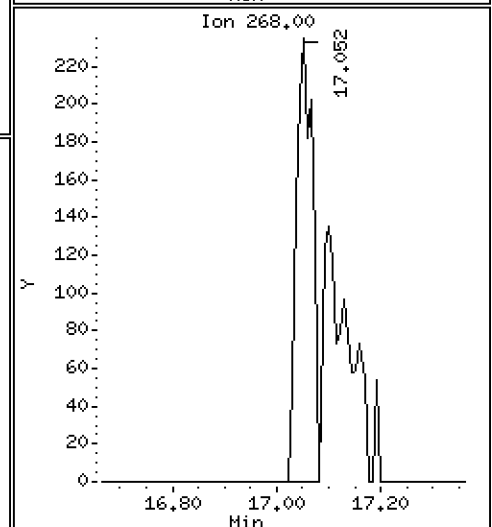
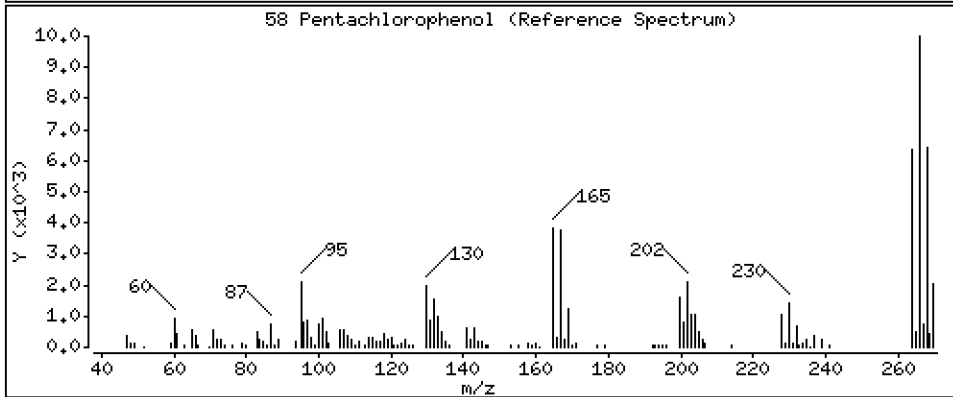
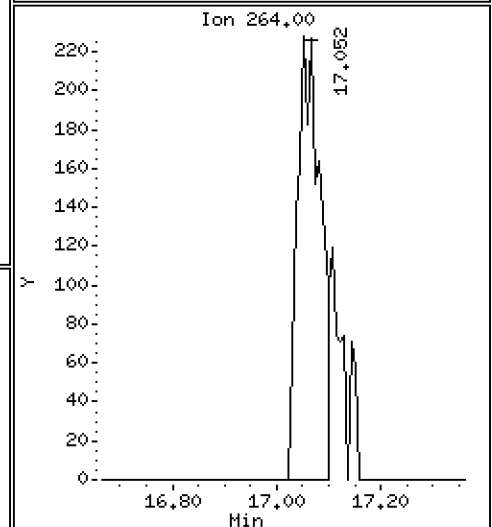
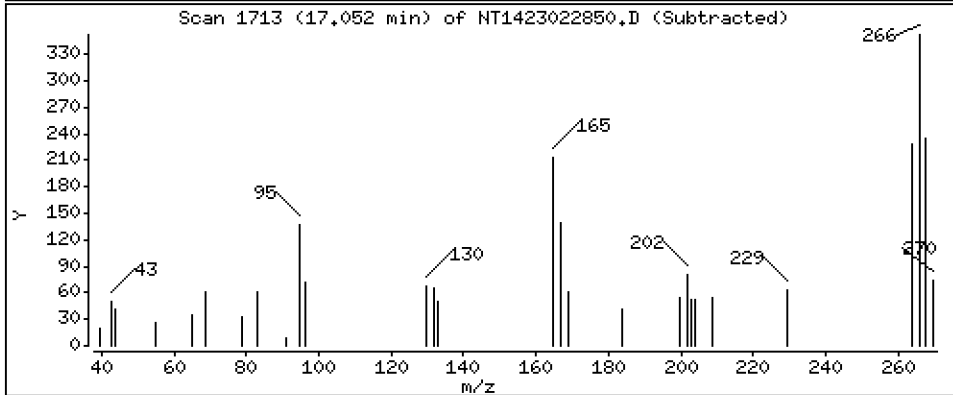
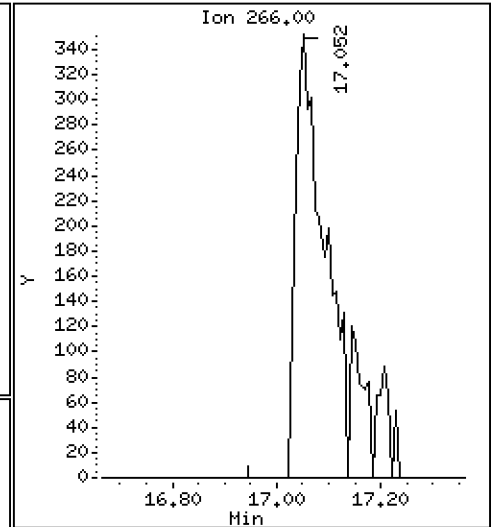
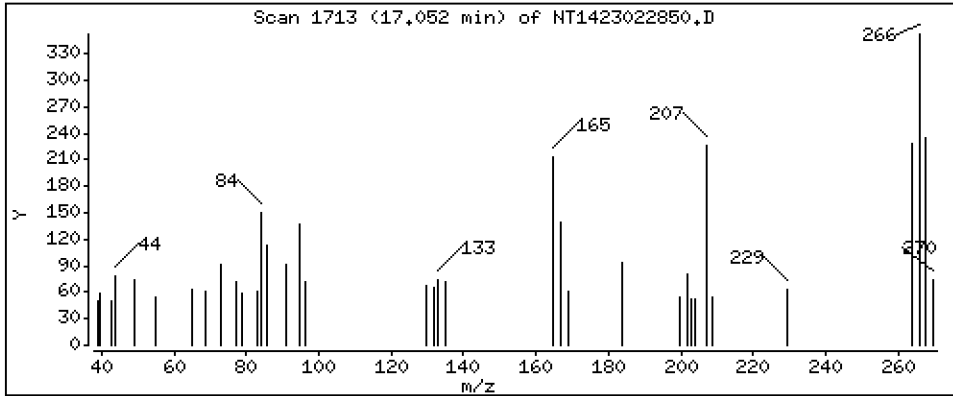
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 0,1450 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

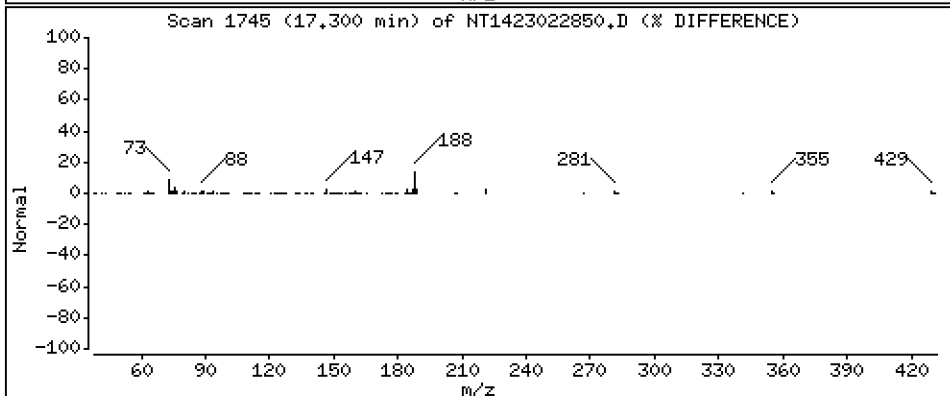
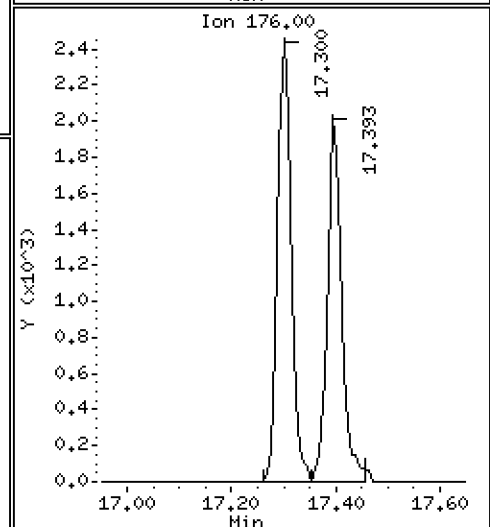
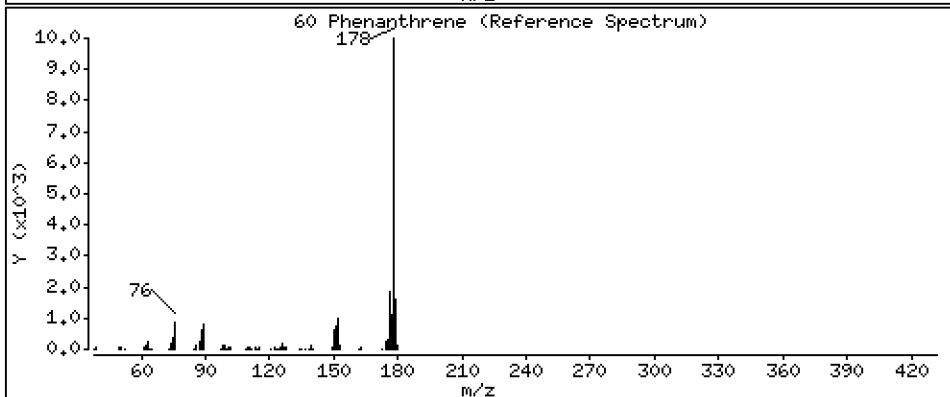
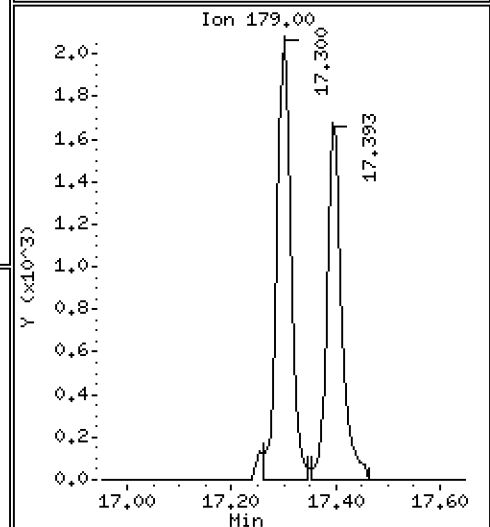
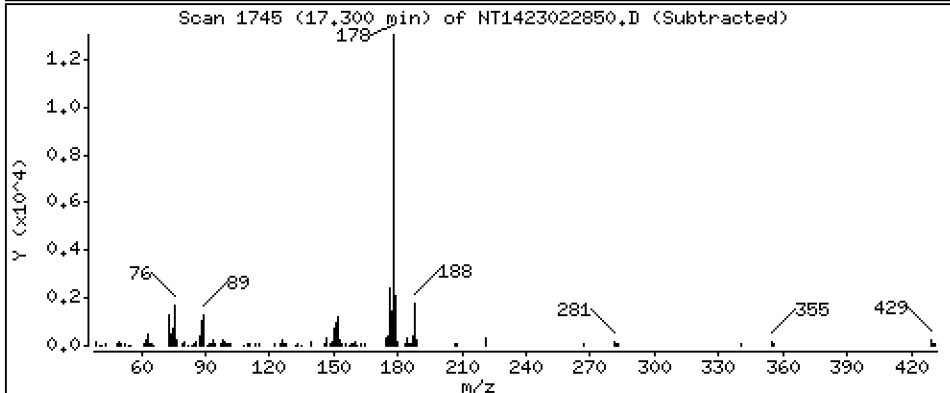
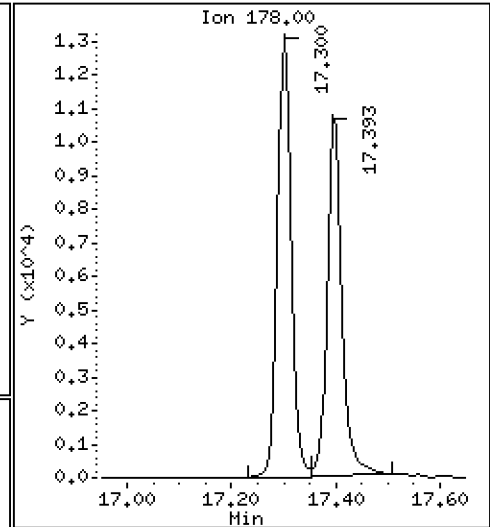
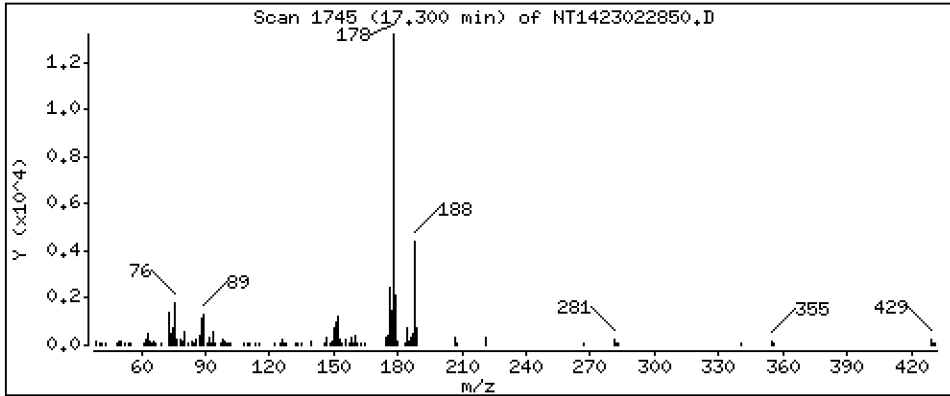
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 0,2104 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

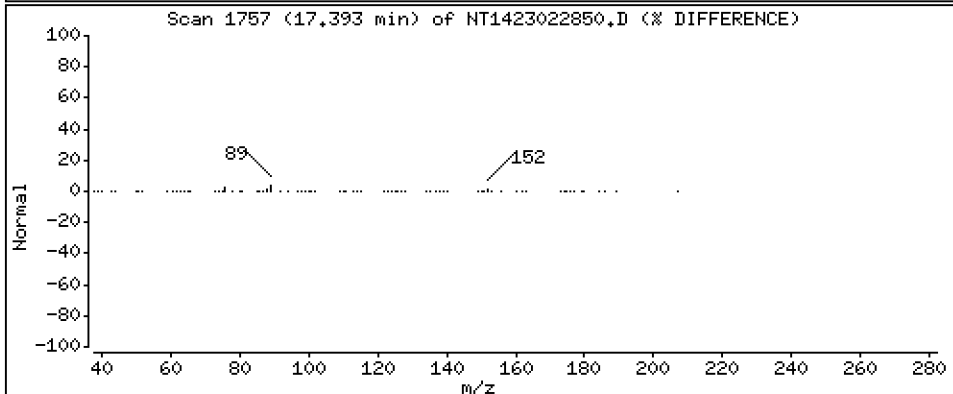
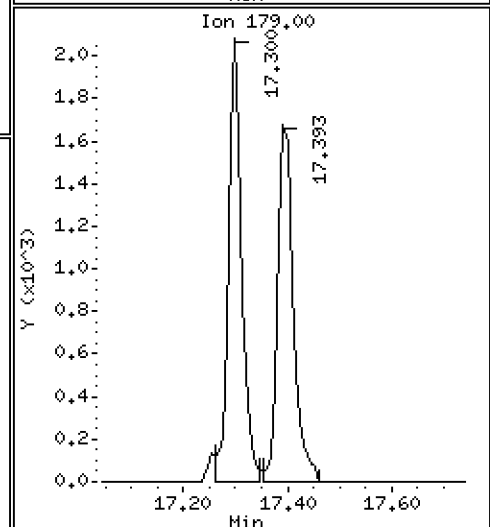
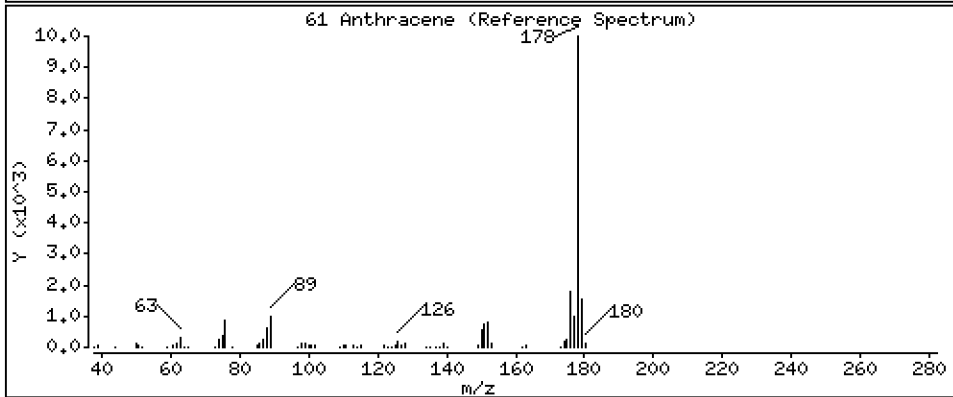
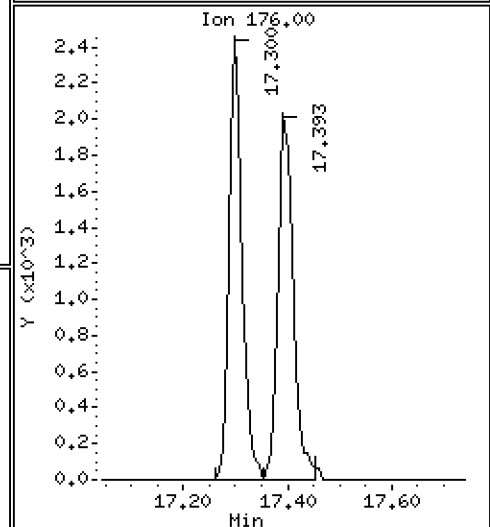
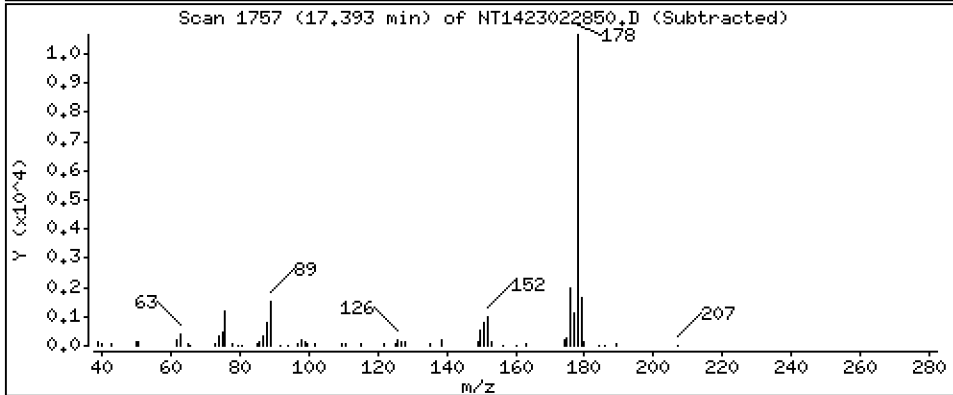
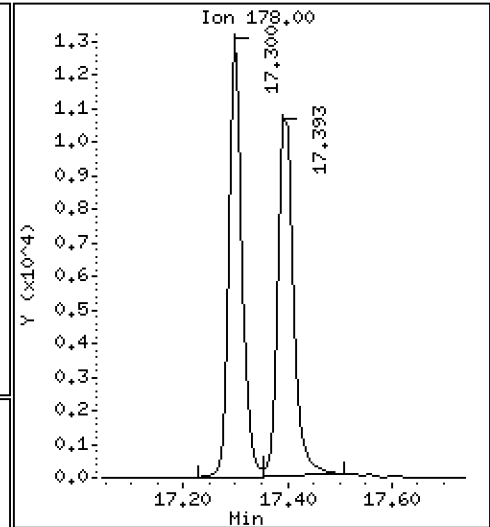
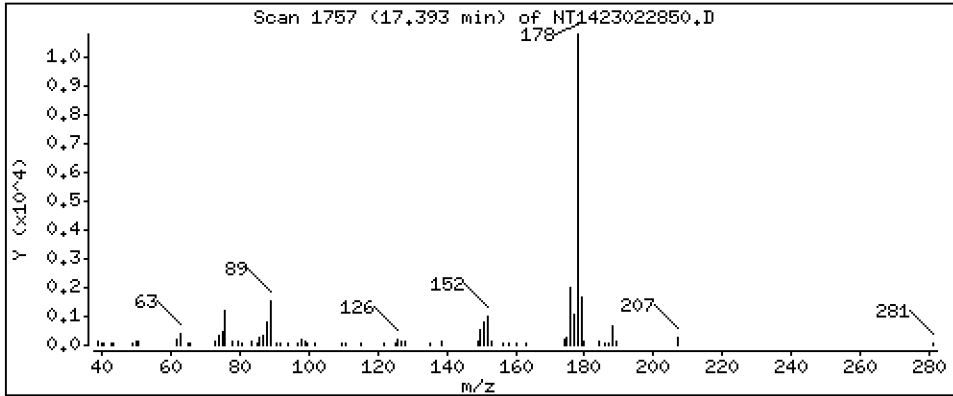
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 0,2047 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

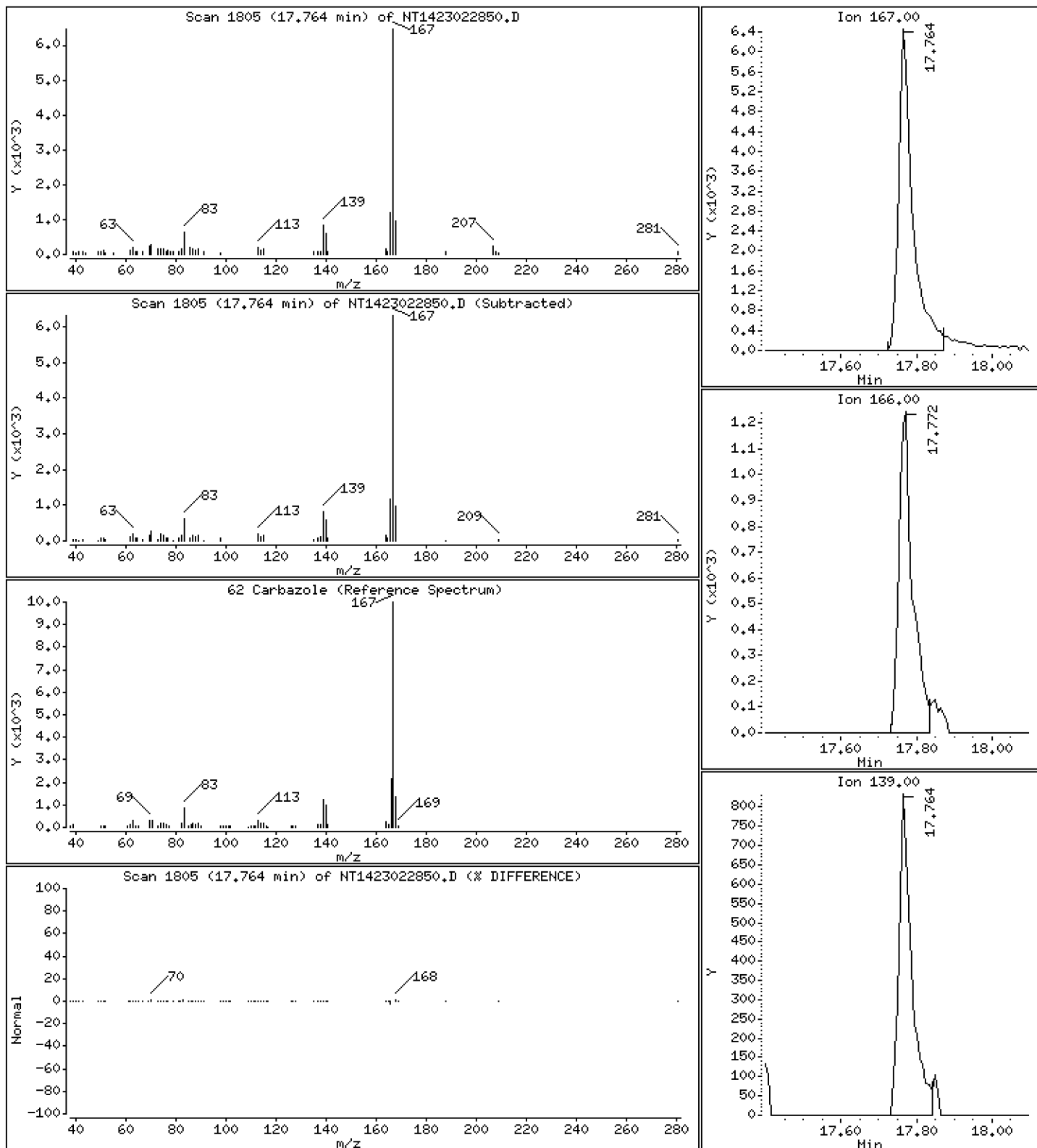
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 0,1876 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

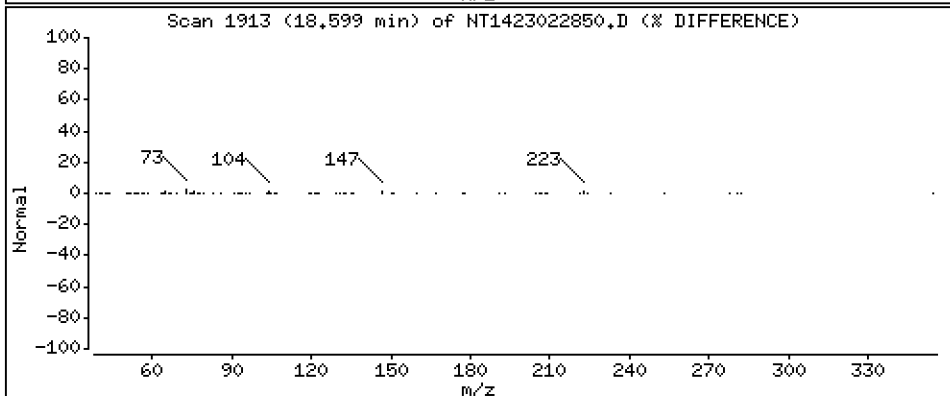
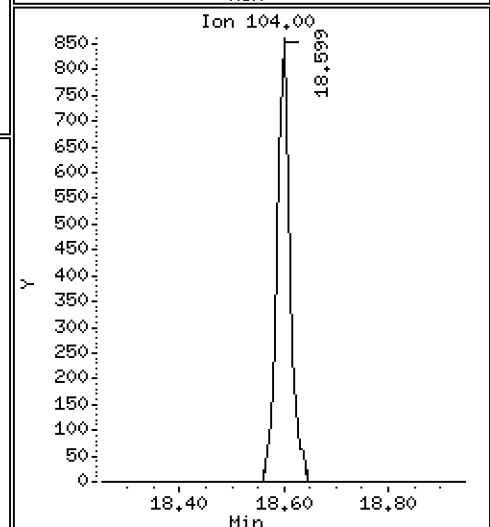
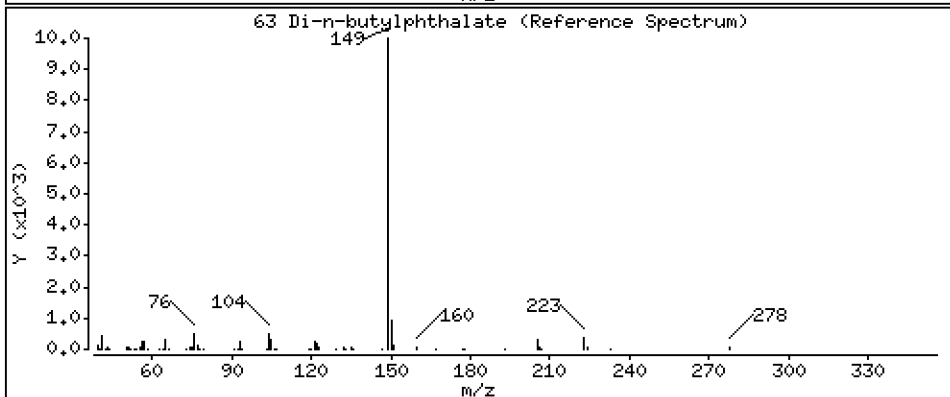
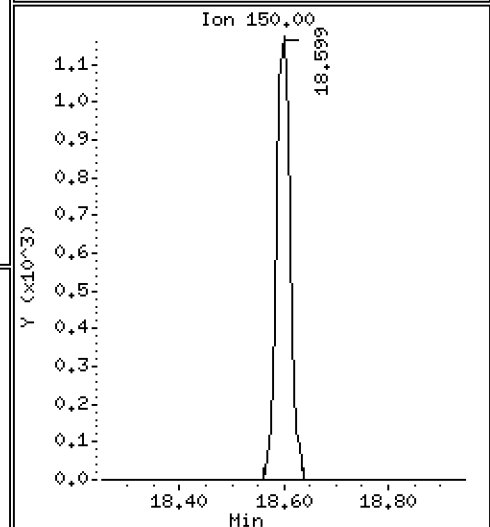
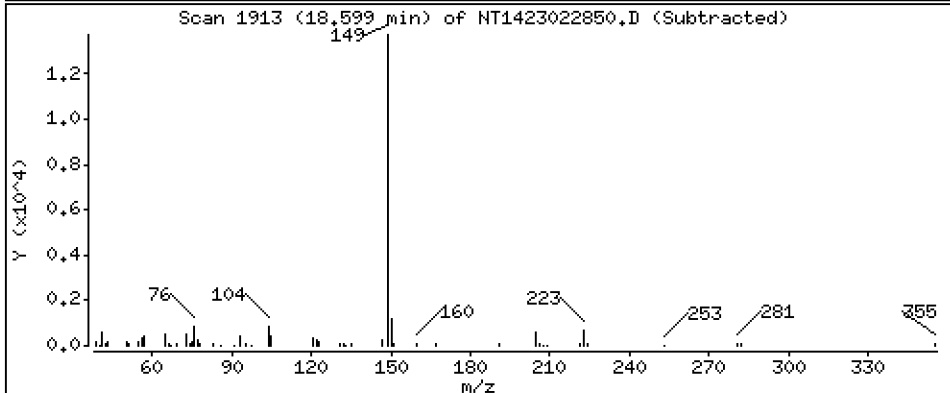
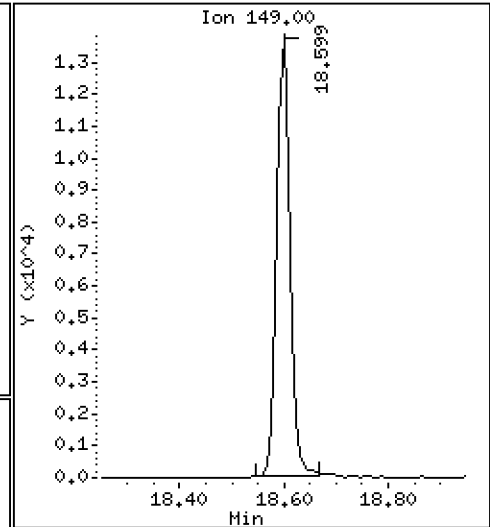
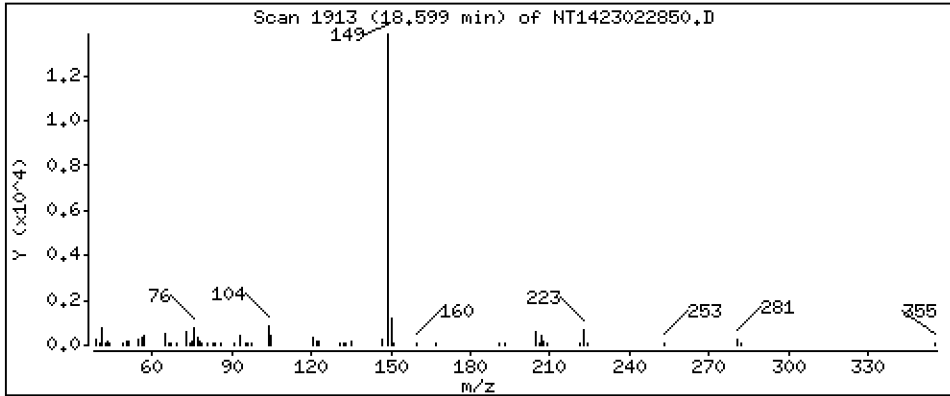
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 0,1934 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

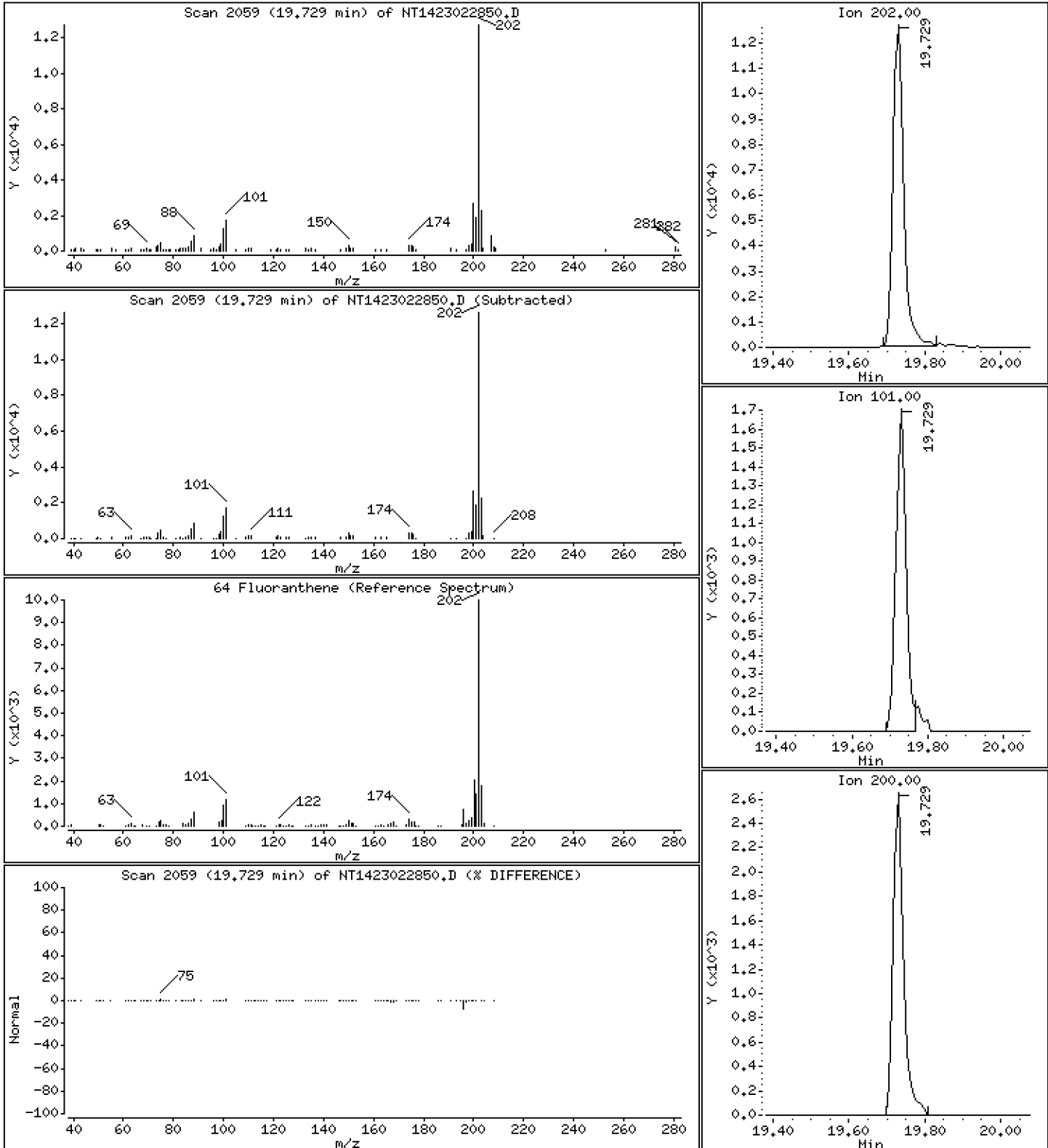
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 0,1763 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

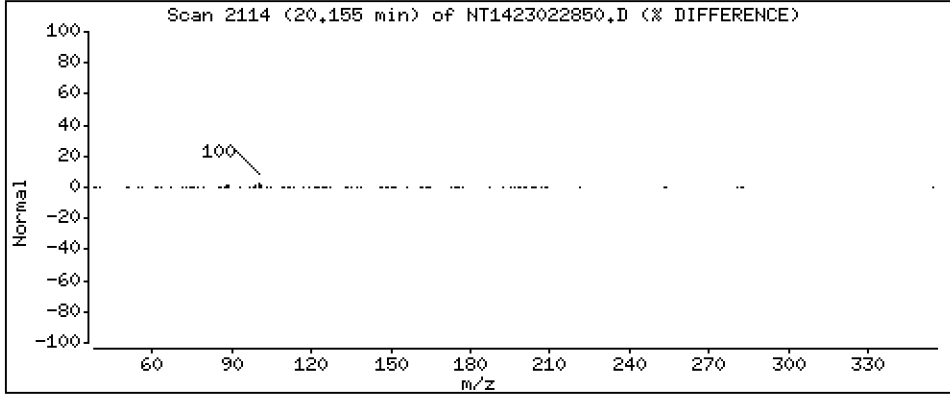
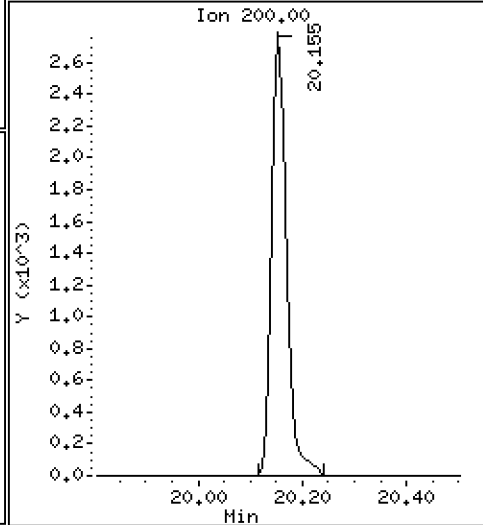
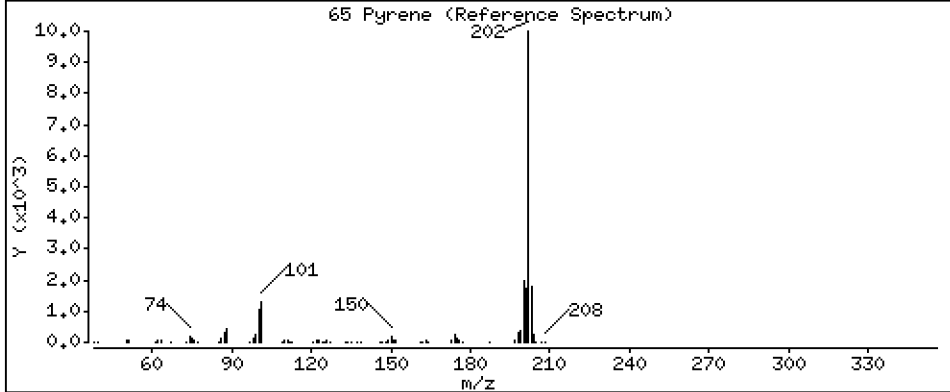
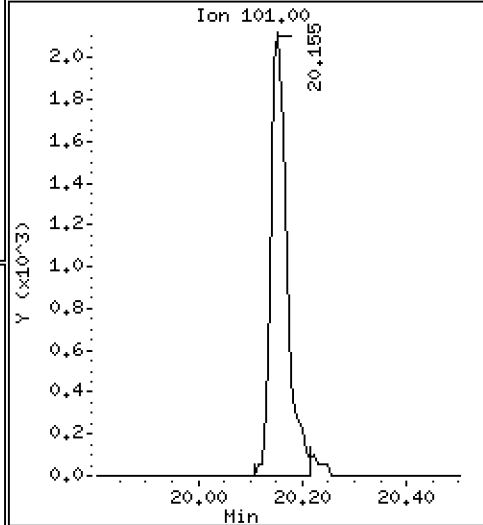
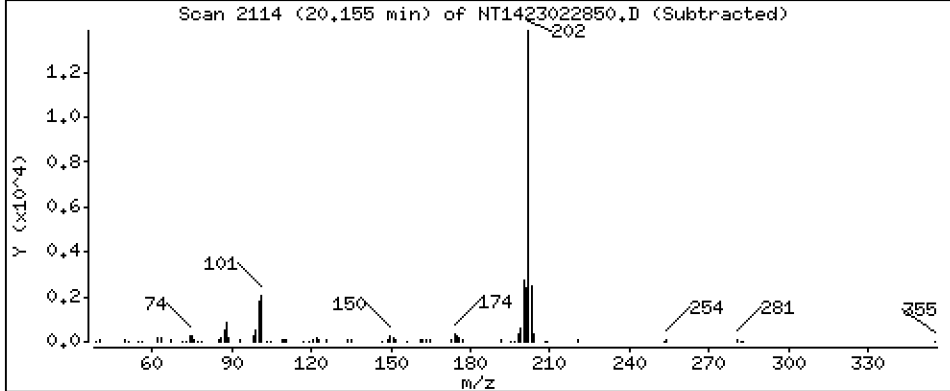
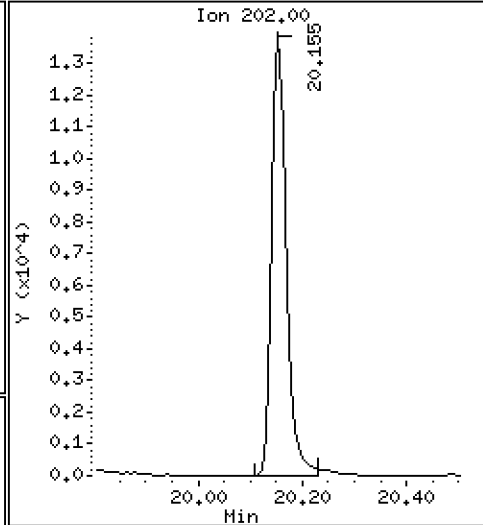
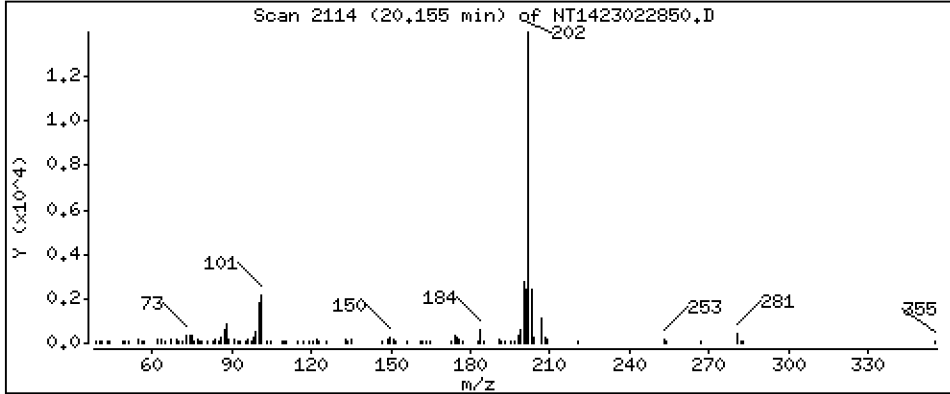
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 0,1838 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

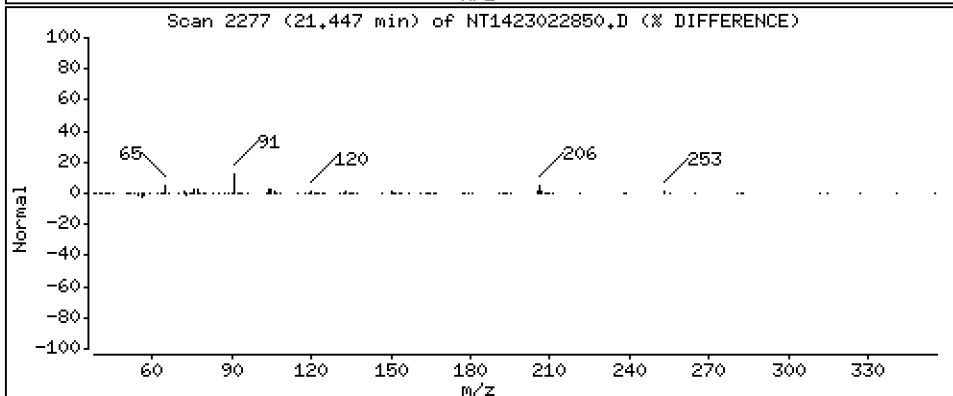
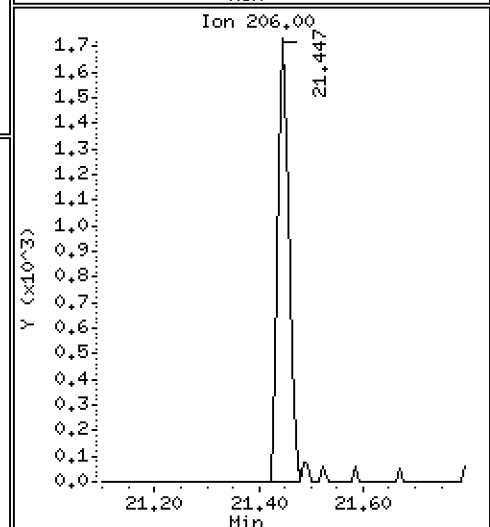
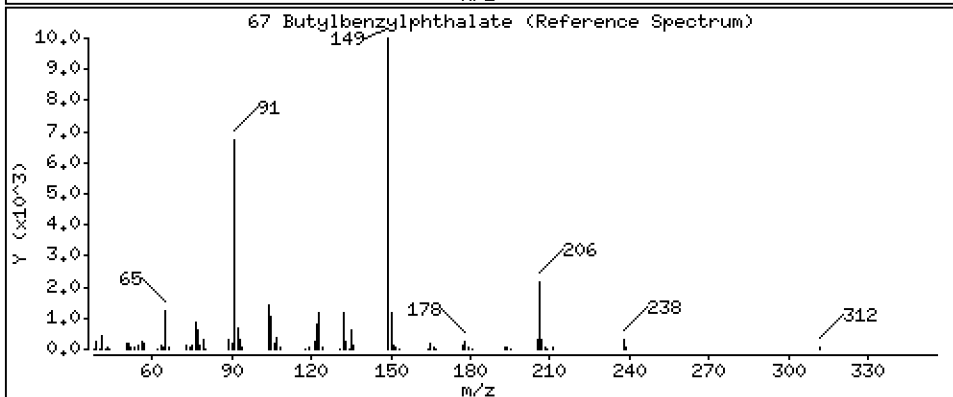
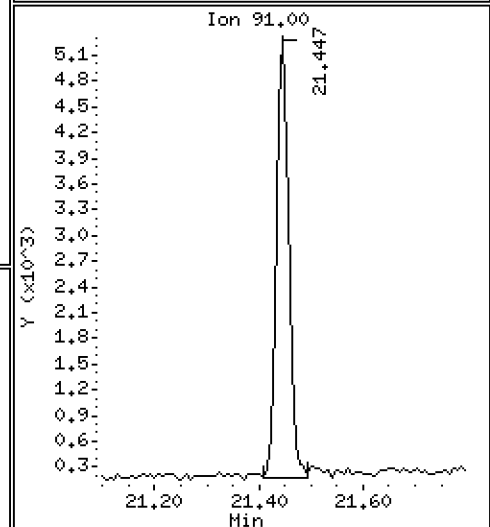
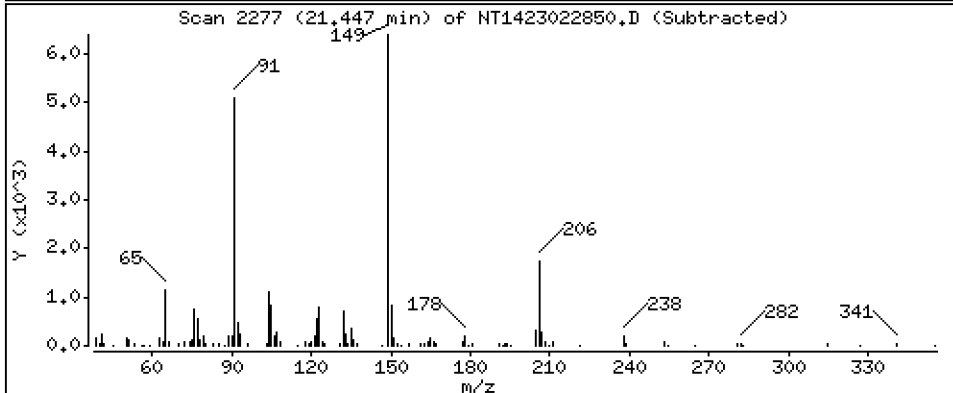
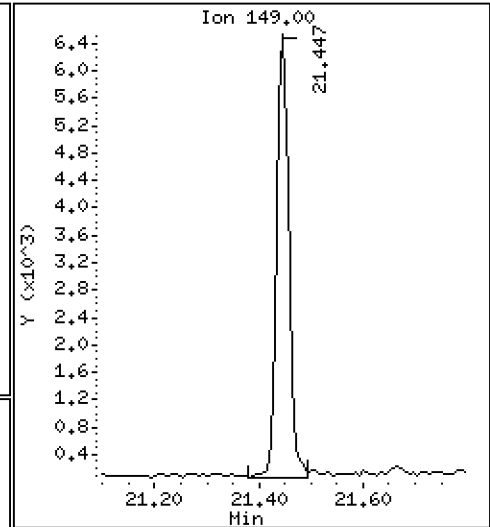
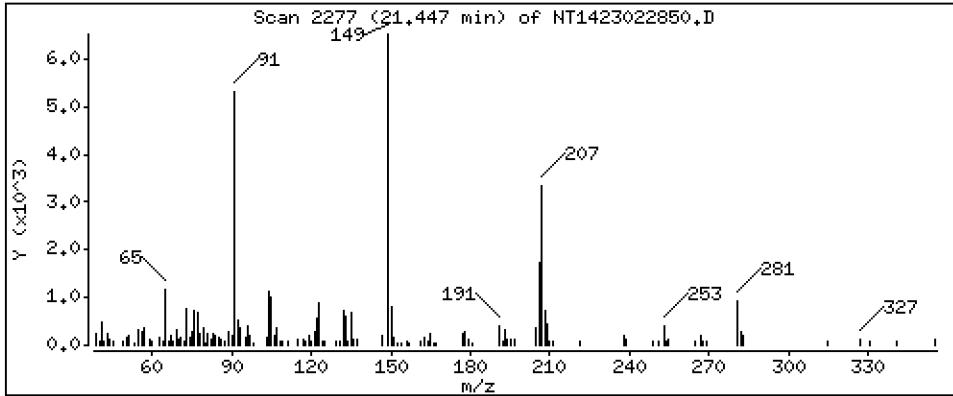
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

67 Butylbenzylphthalate

Concentration: 0.1999 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

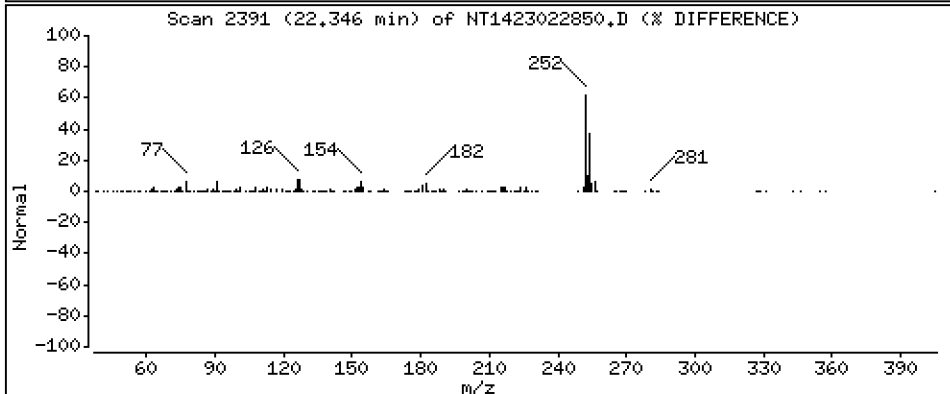
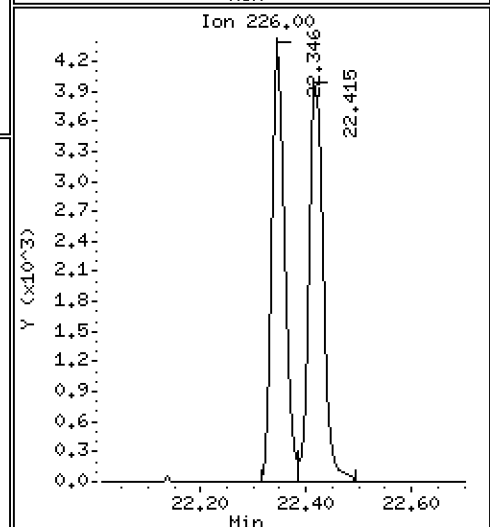
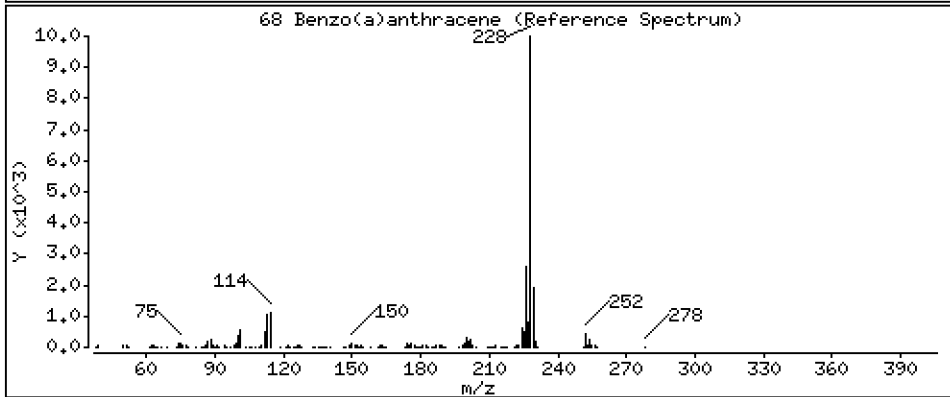
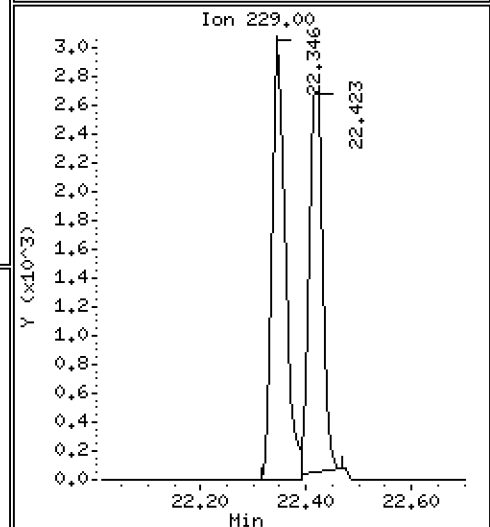
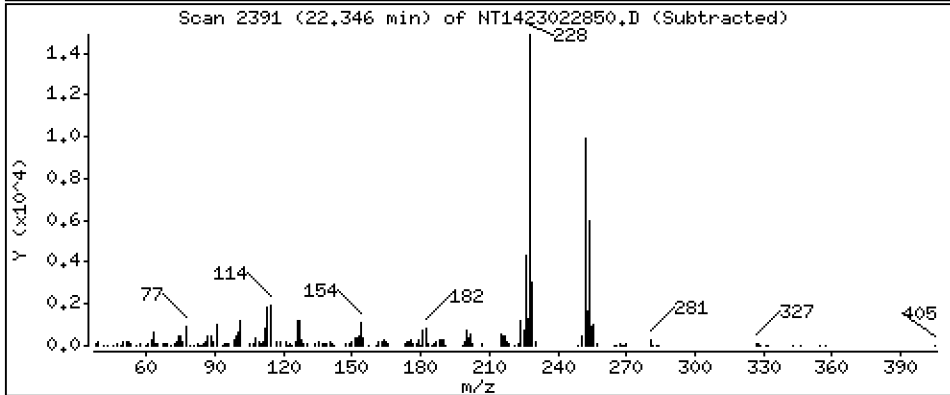
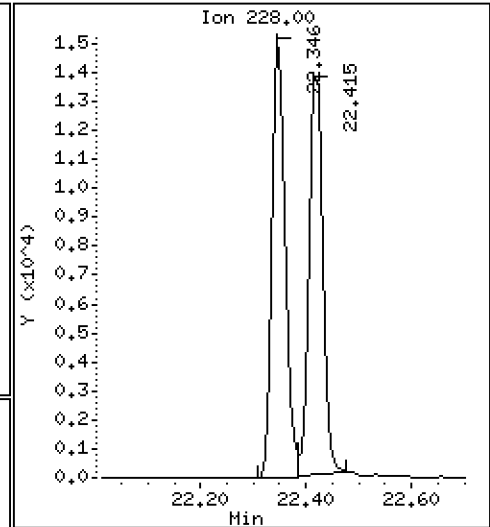
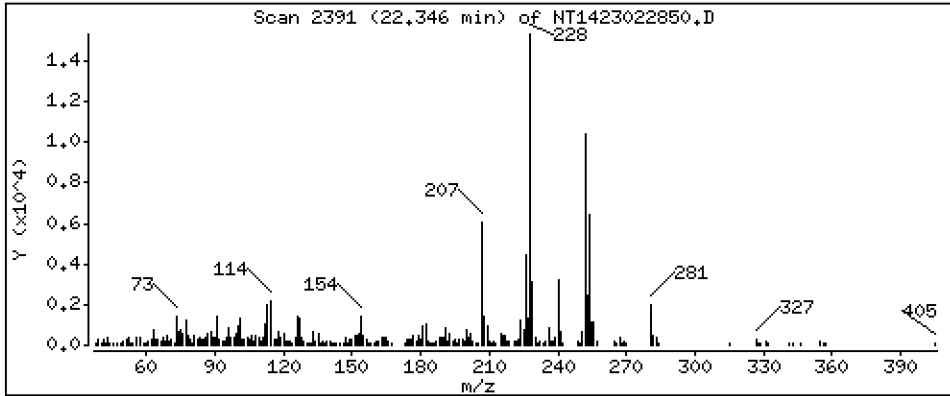
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 0,2206 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

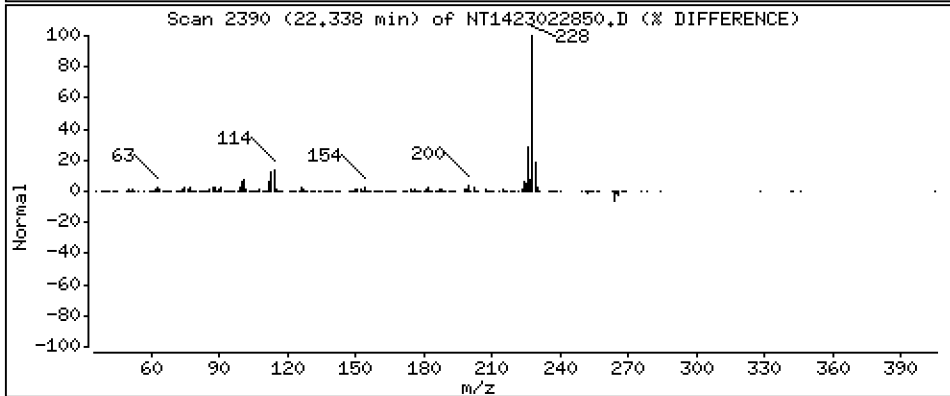
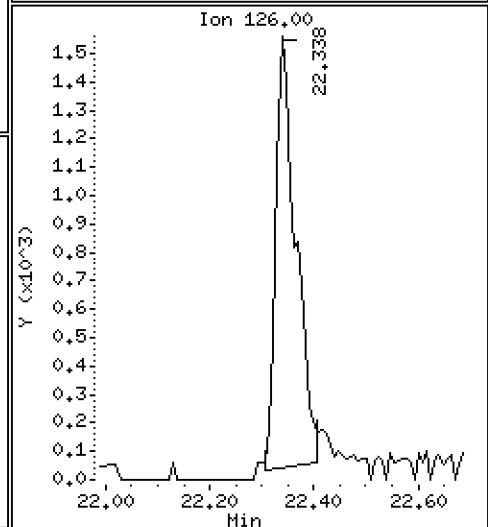
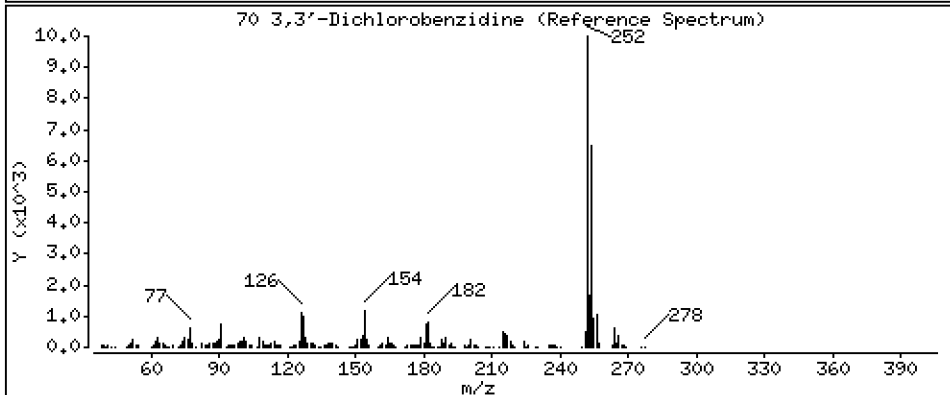
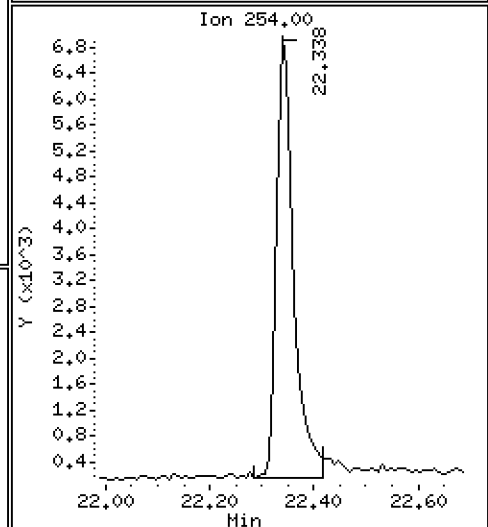
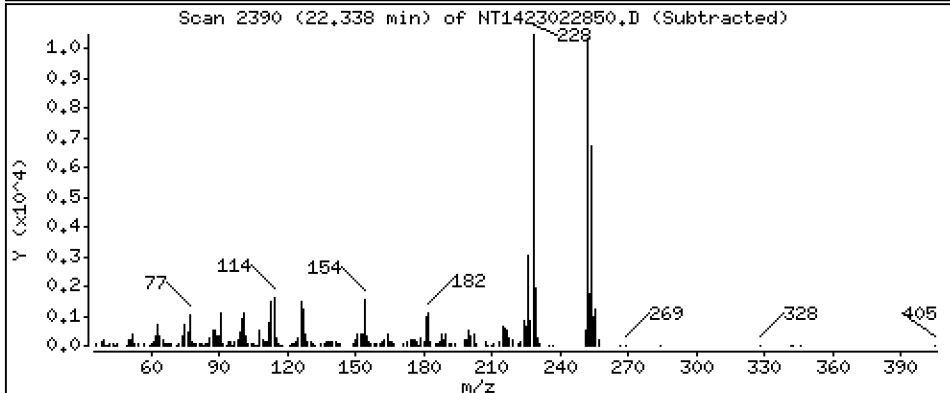
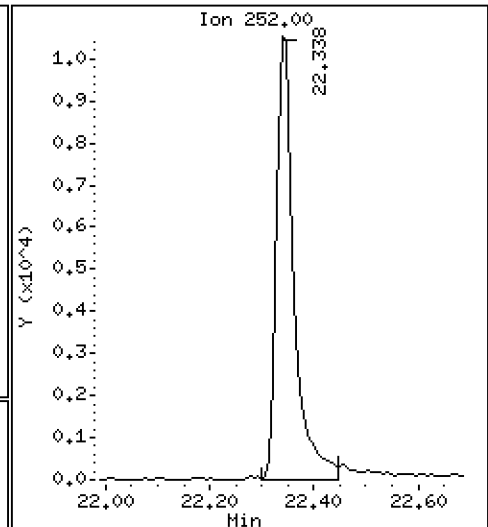
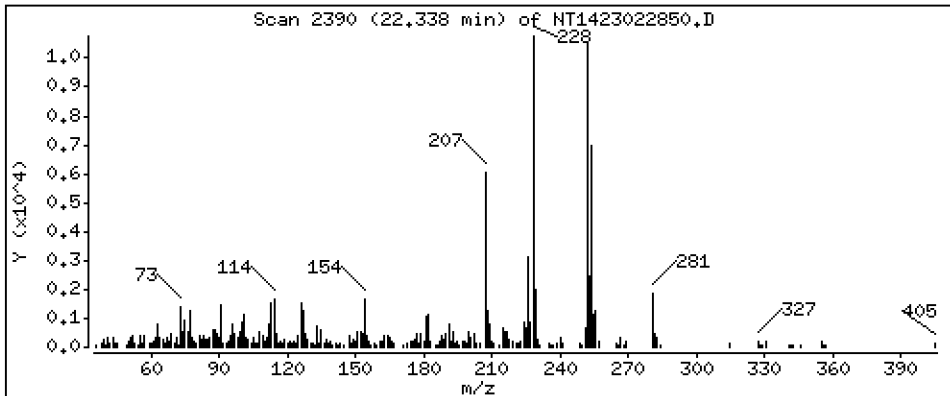
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

70 3,3'-Dichlorobenzidine

Concentration: 0,7172 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

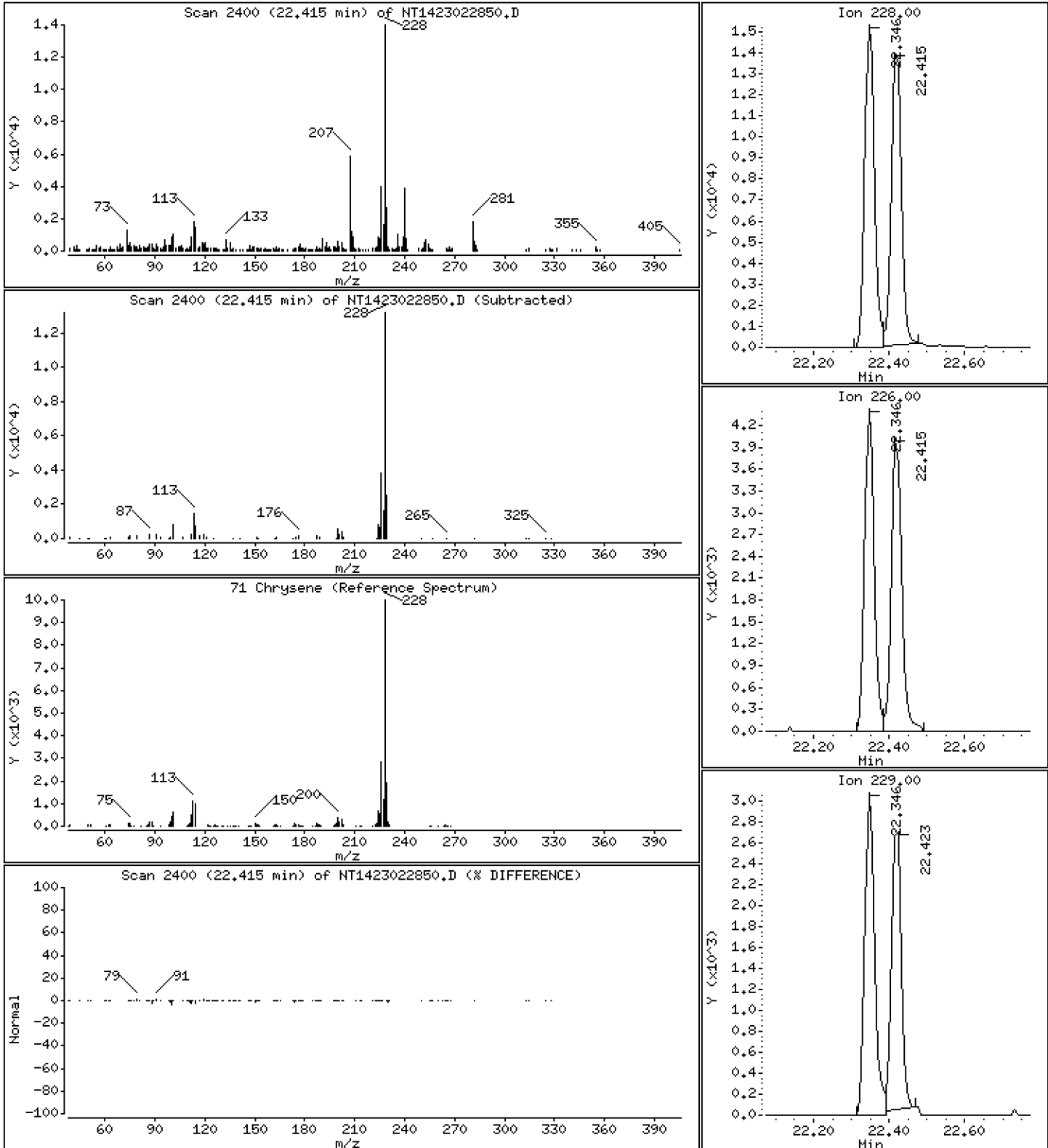
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 0,2125 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

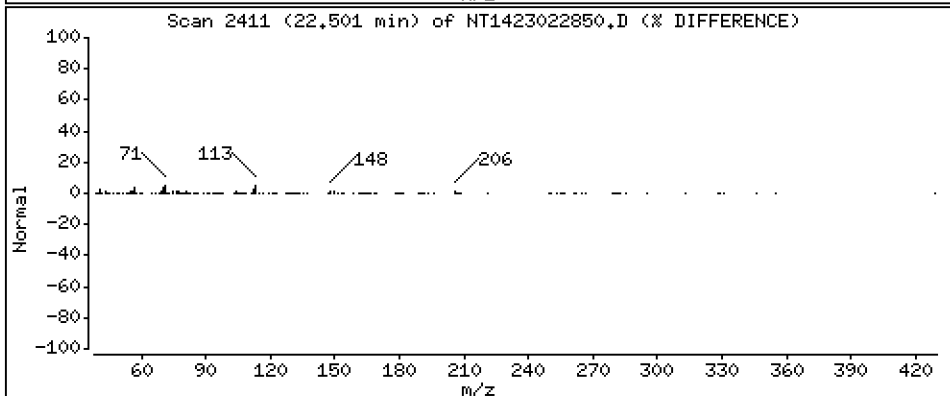
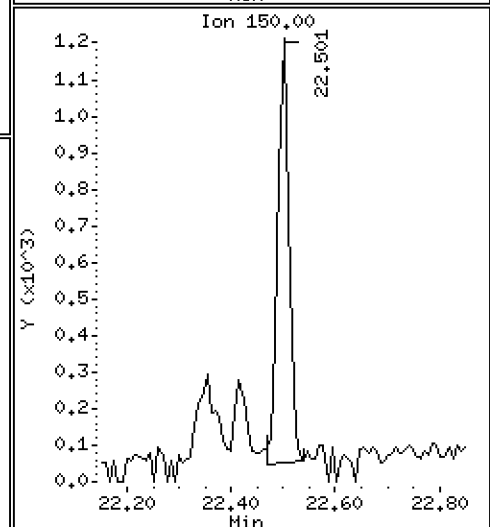
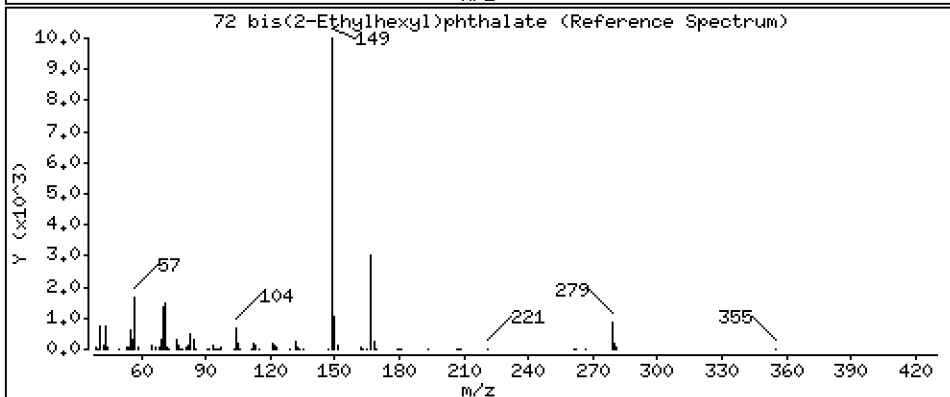
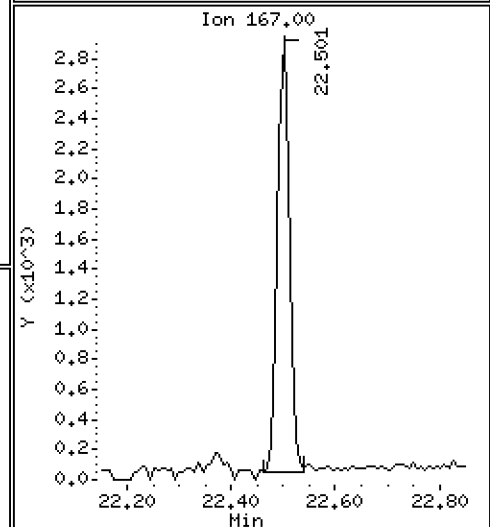
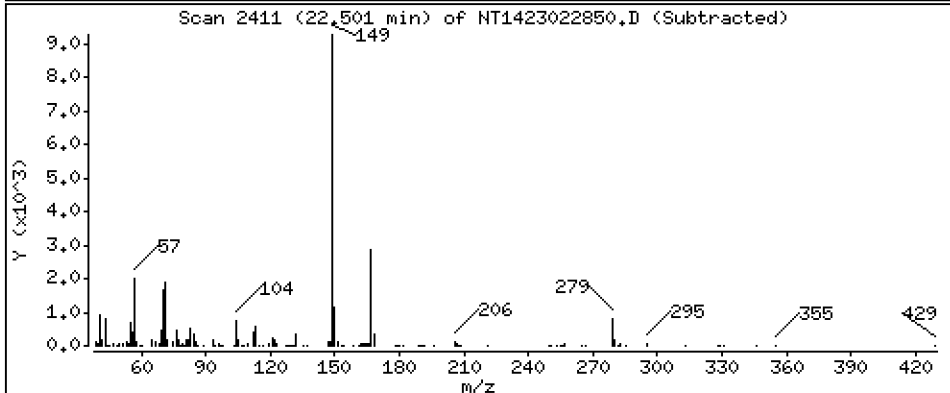
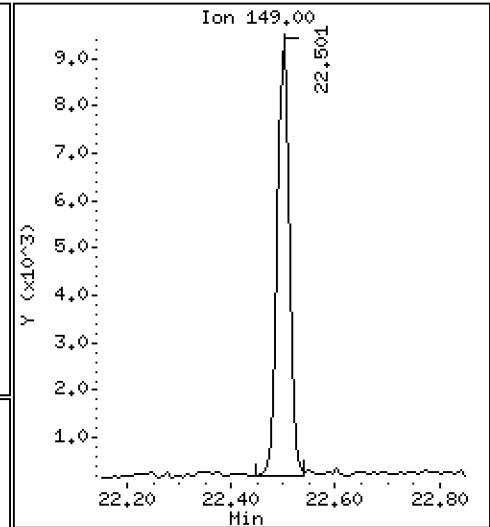
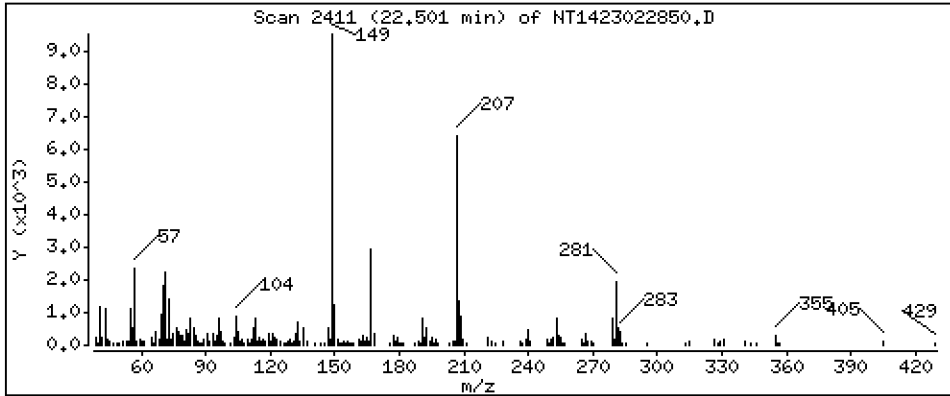
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 0,1812 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

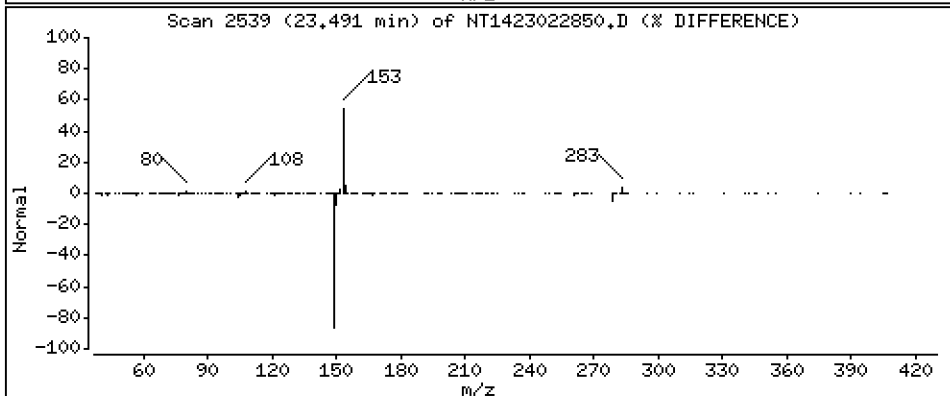
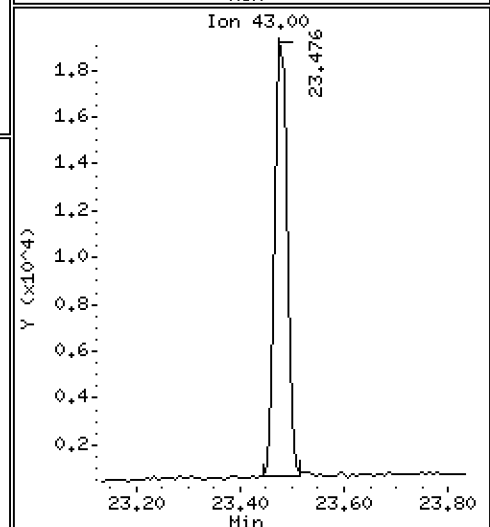
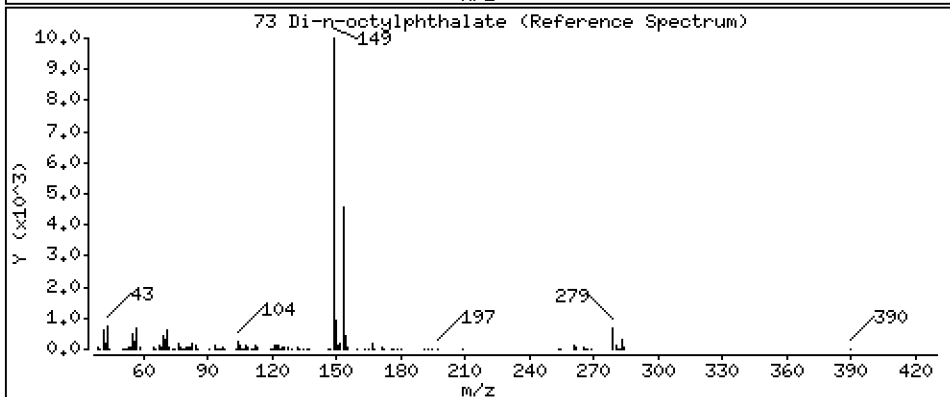
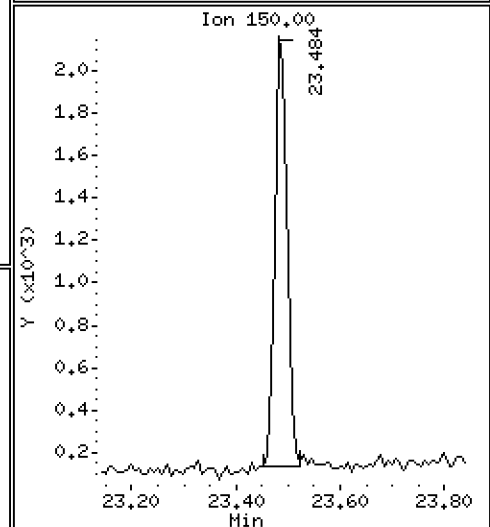
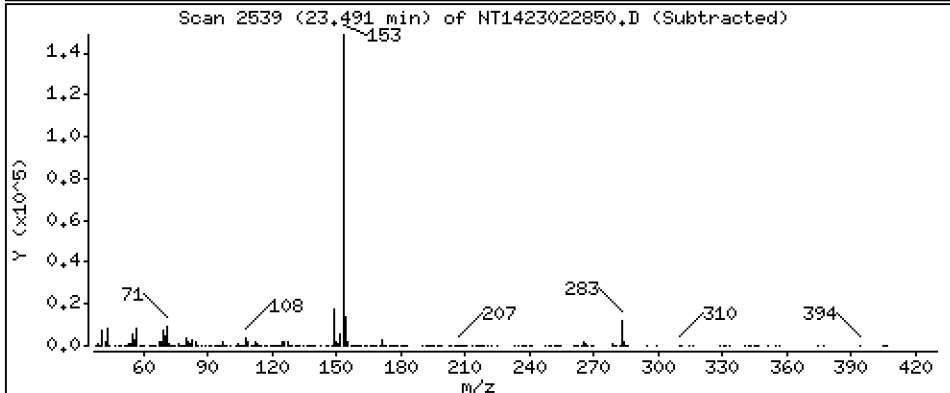
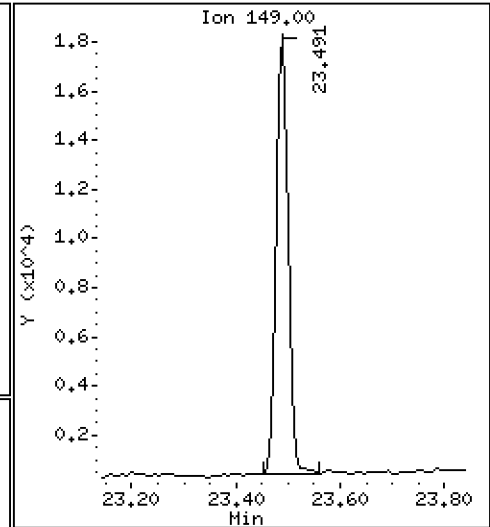
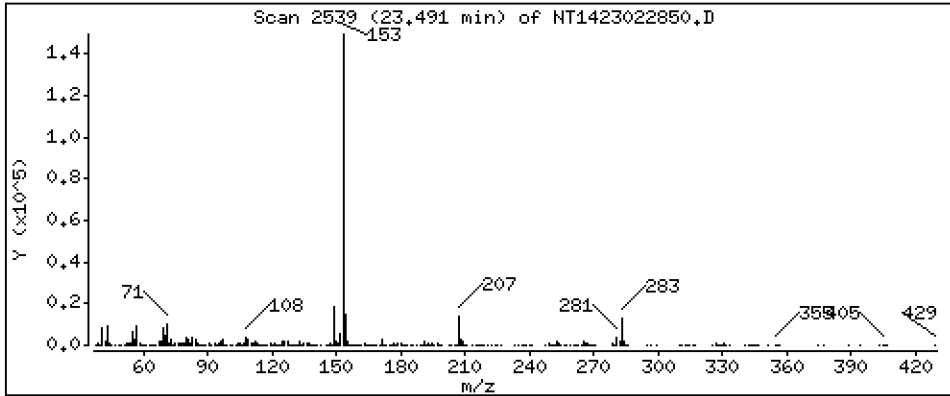
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 0,2059 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

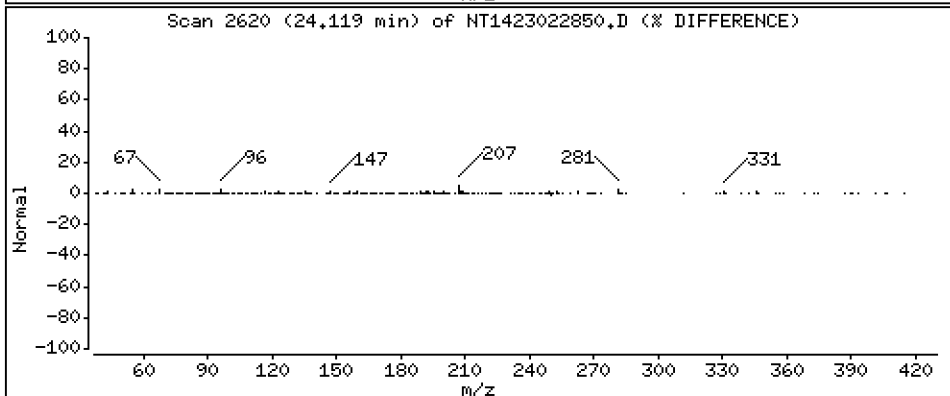
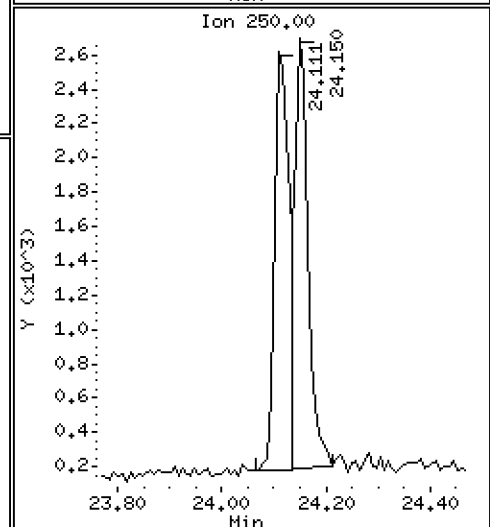
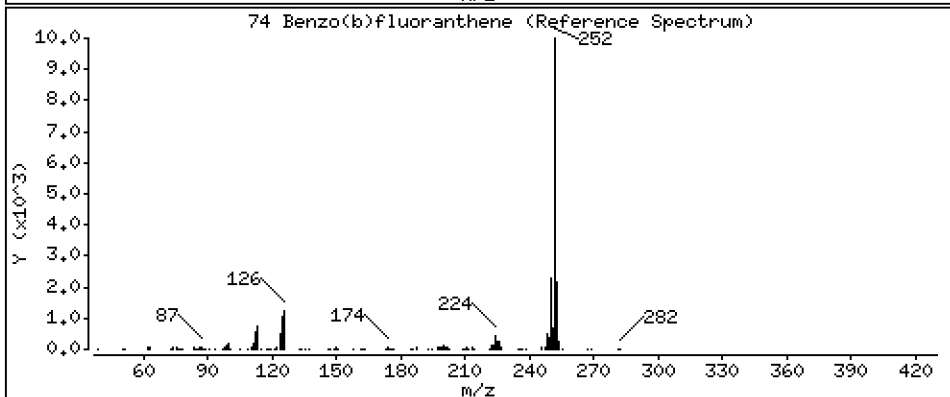
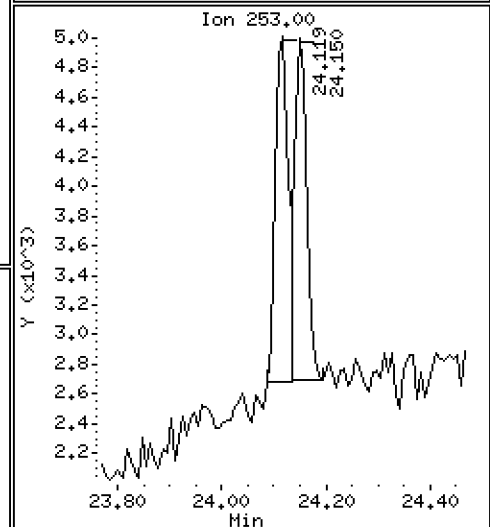
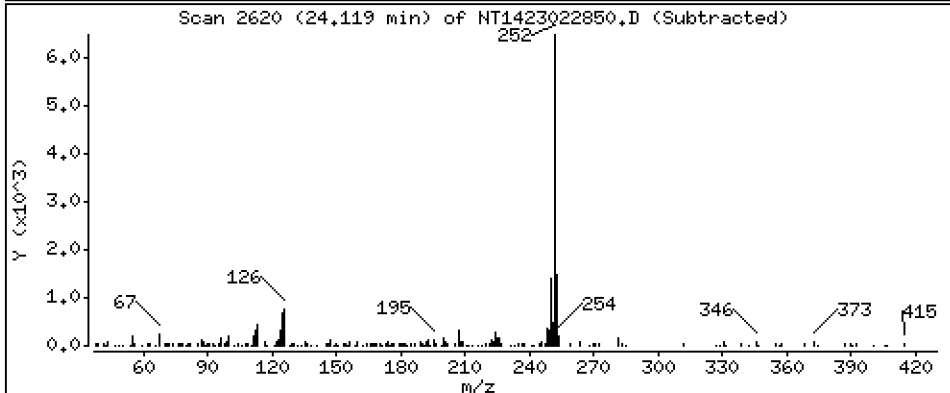
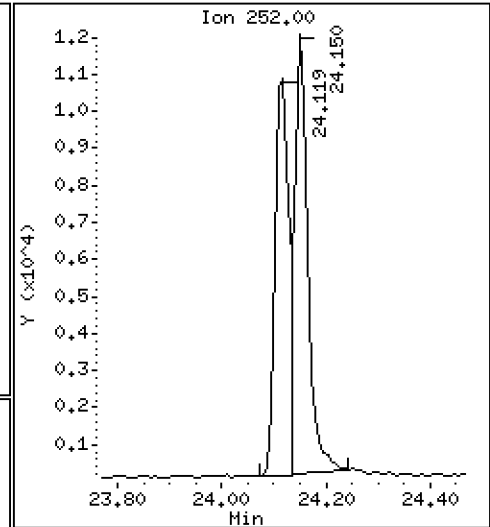
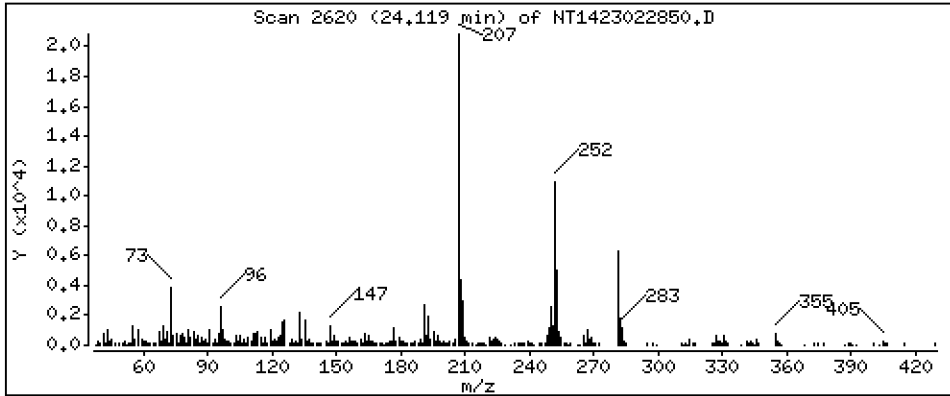
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 0,2502 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

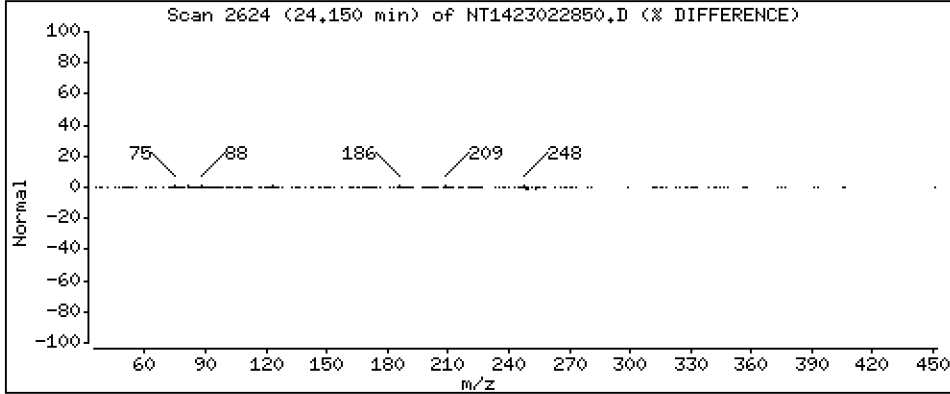
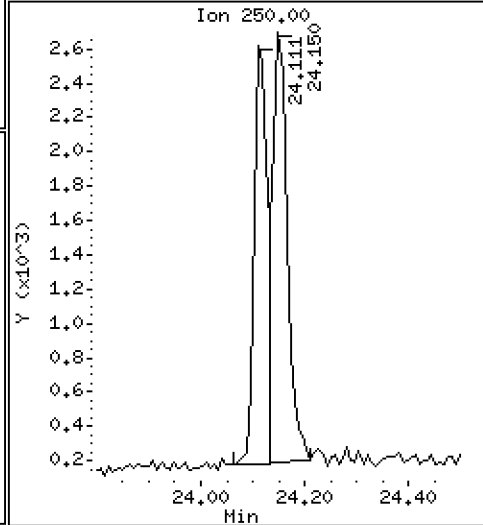
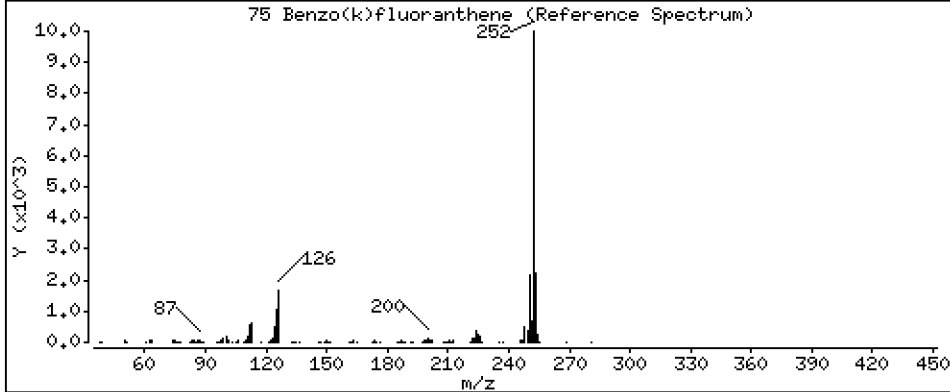
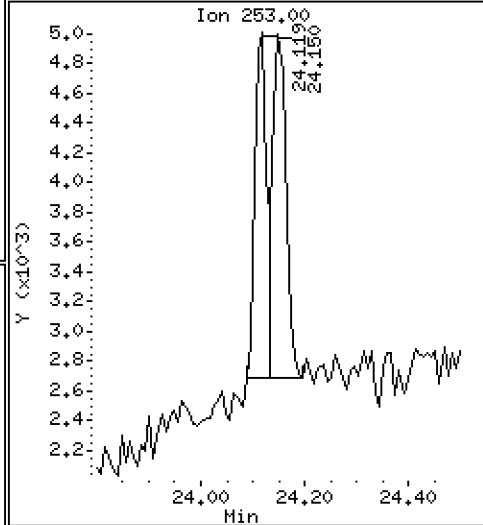
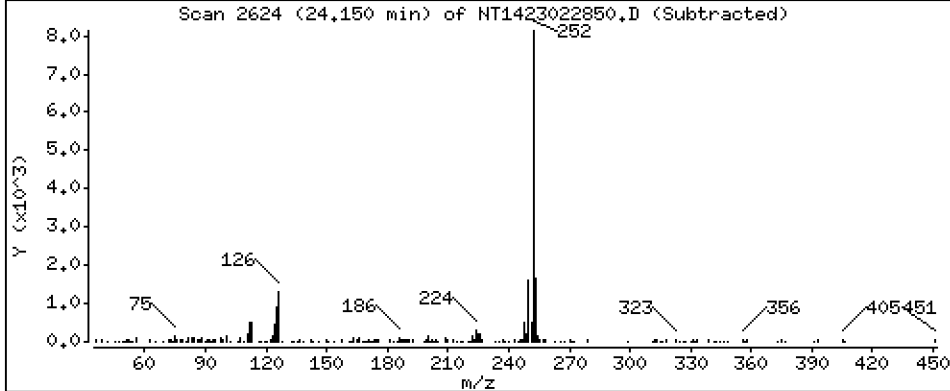
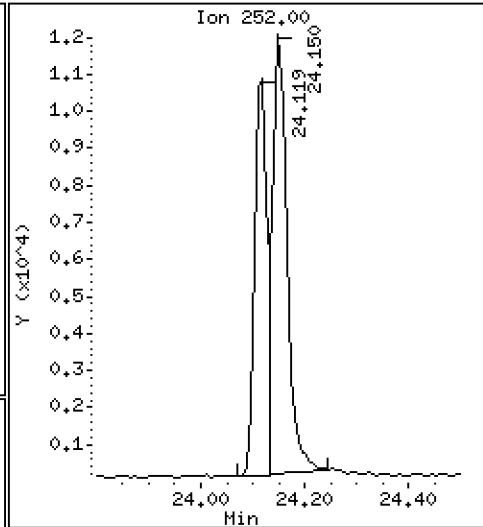
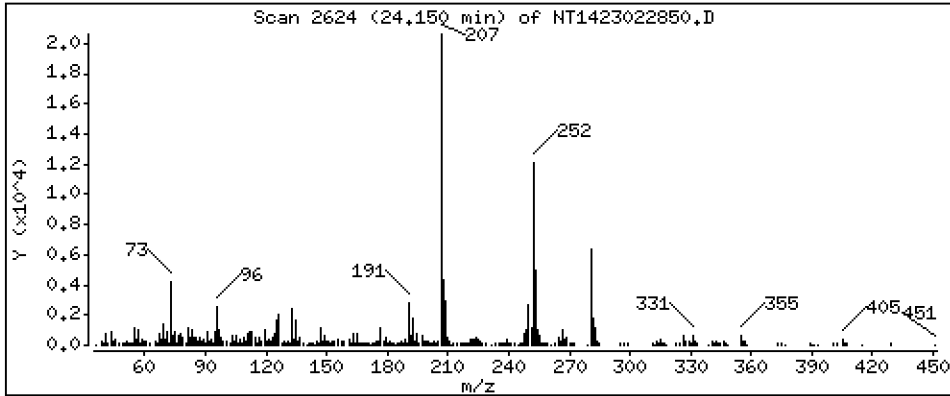
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 0,2656 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

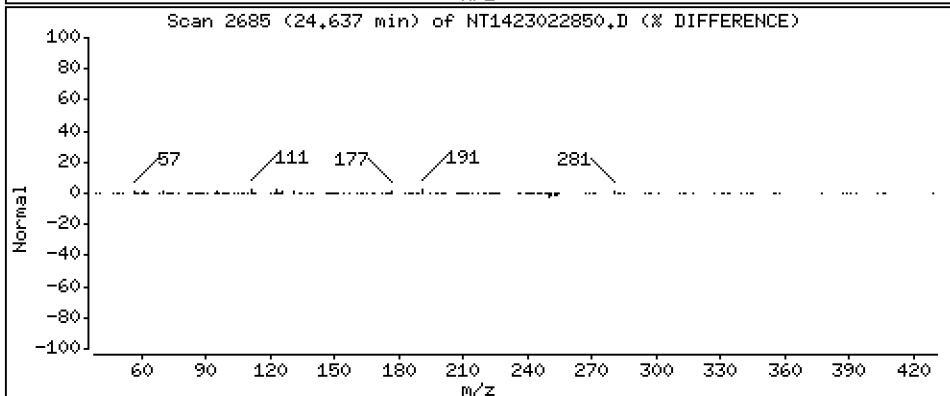
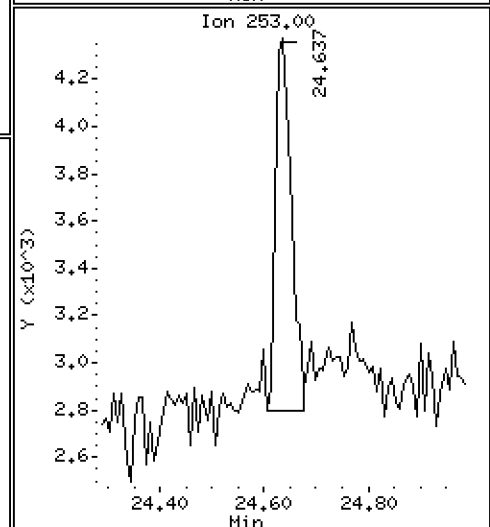
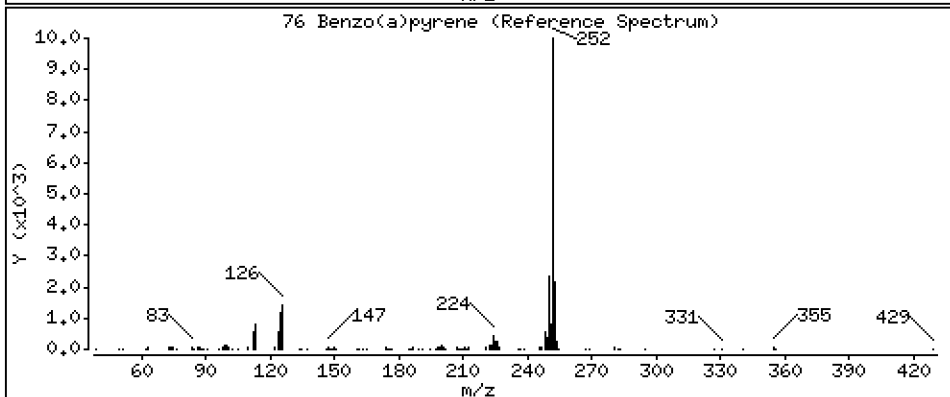
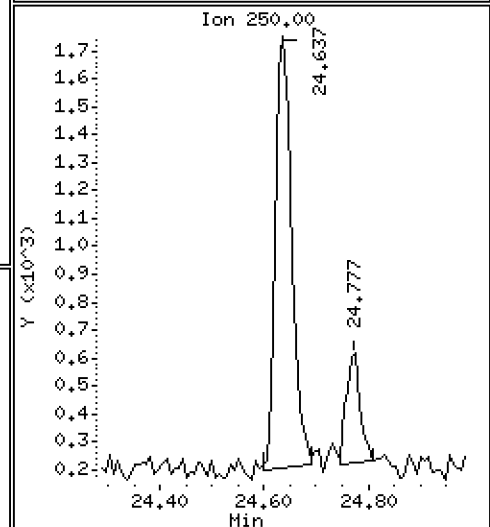
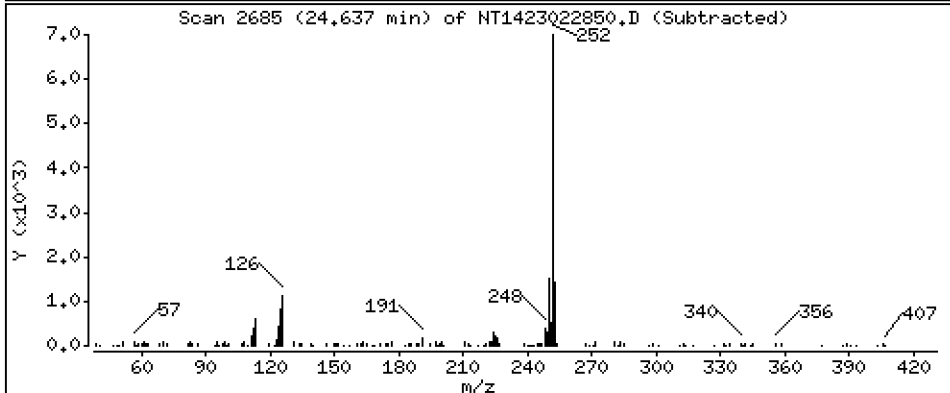
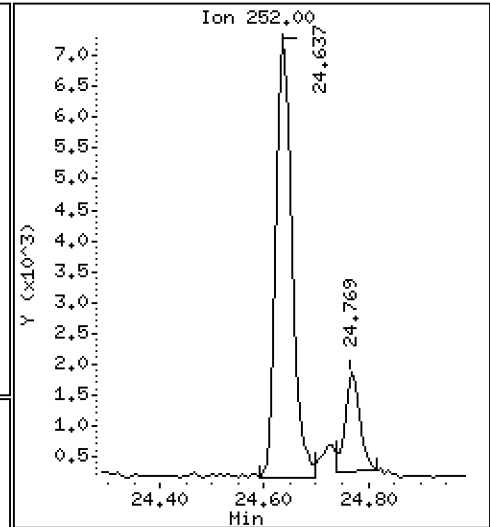
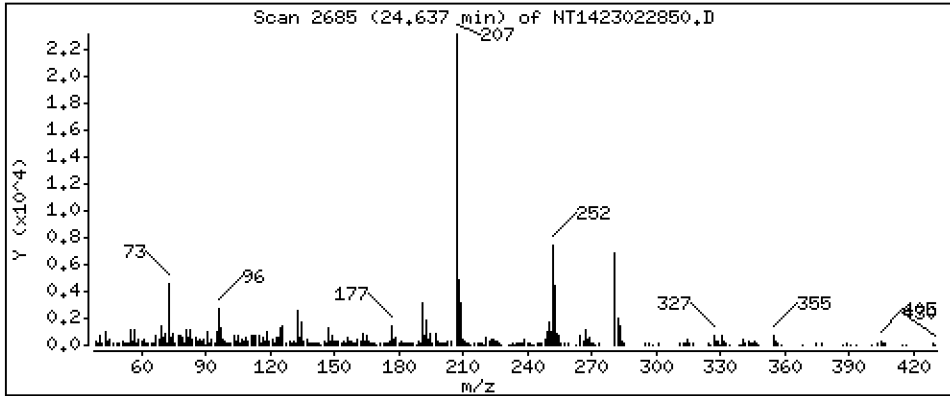
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 0,2184 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

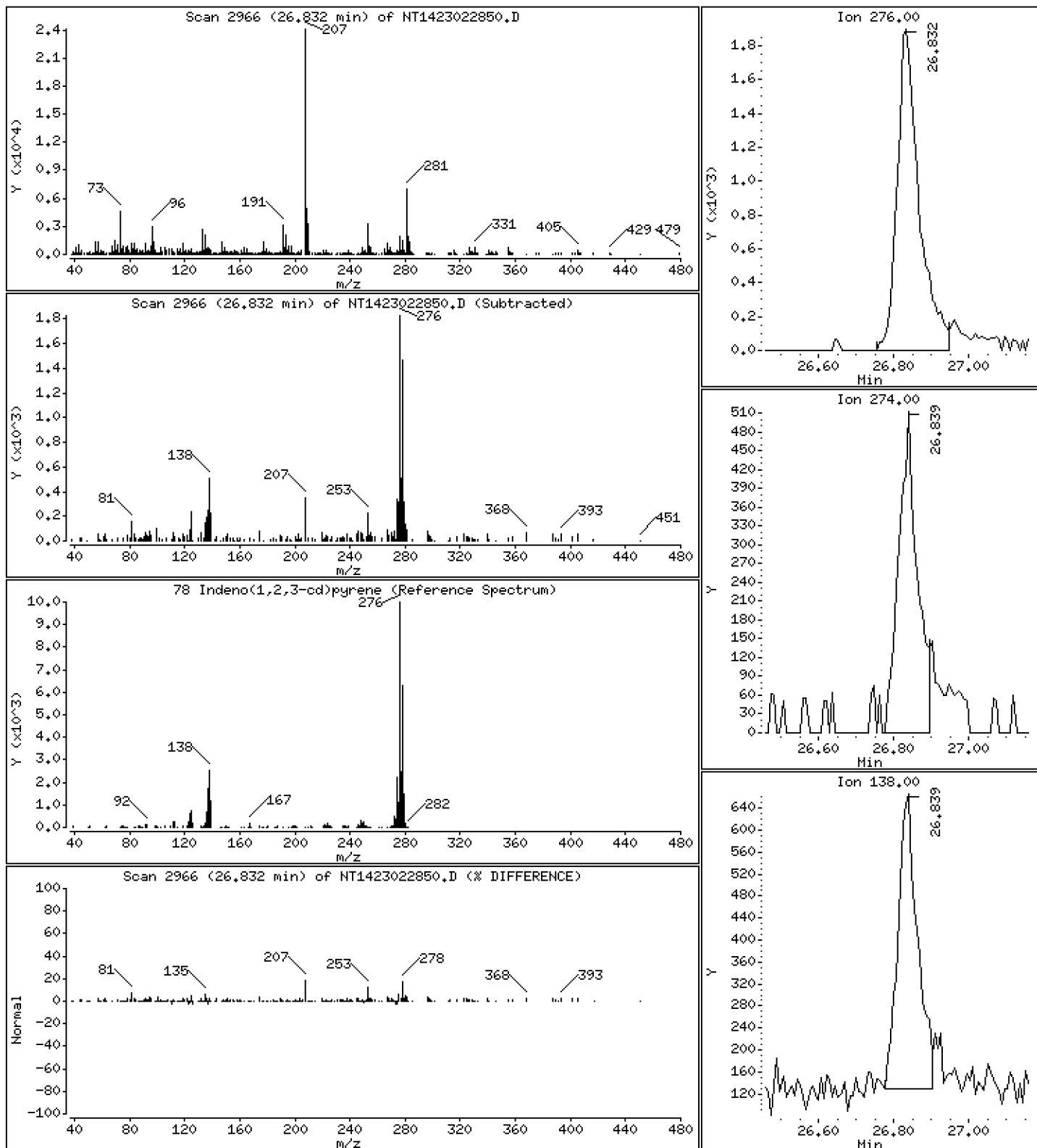
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 0,09029 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

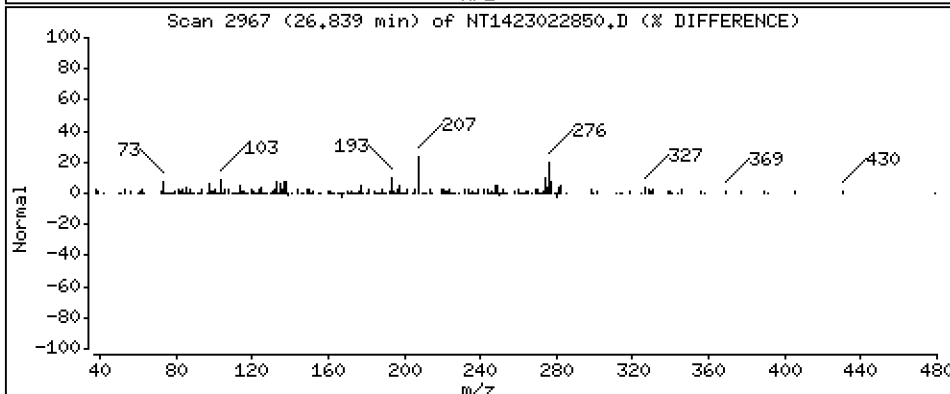
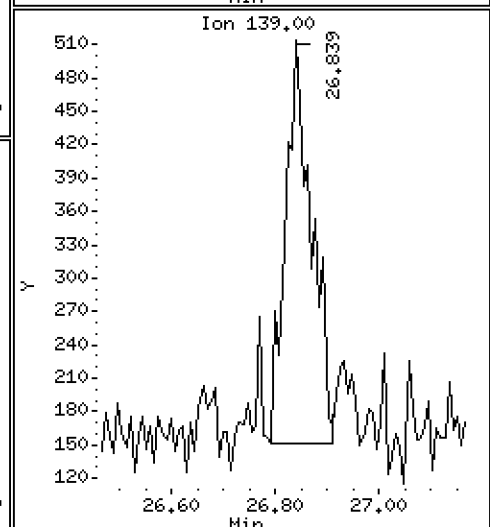
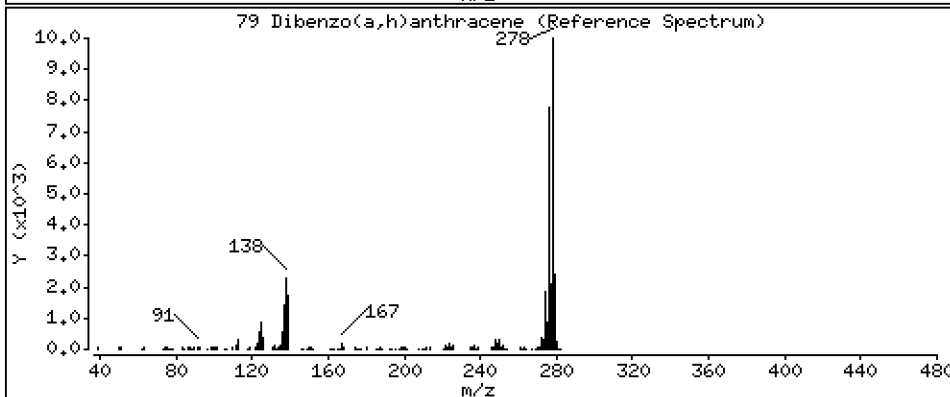
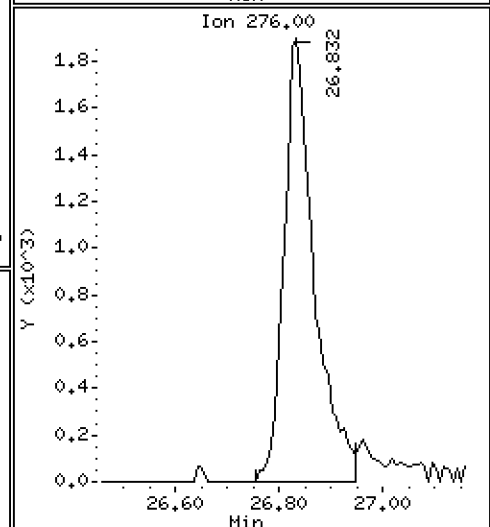
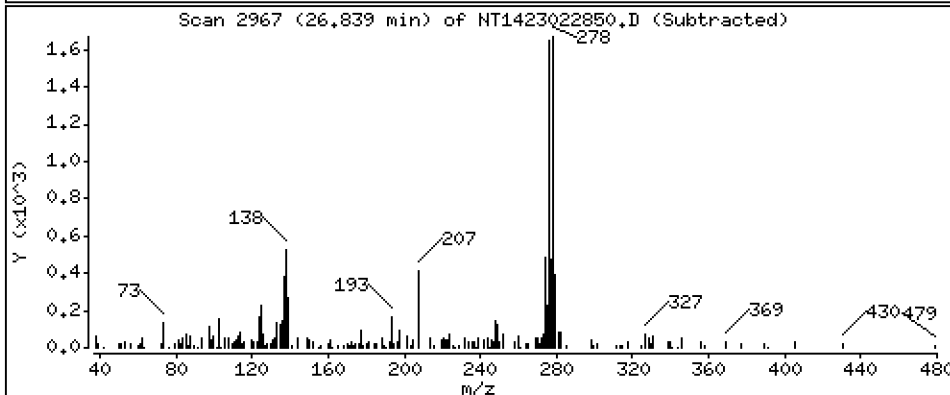
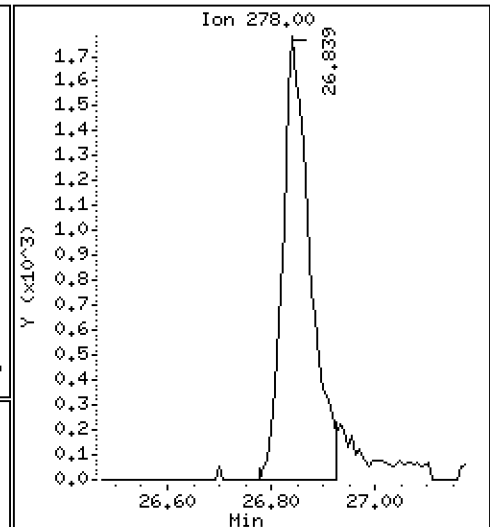
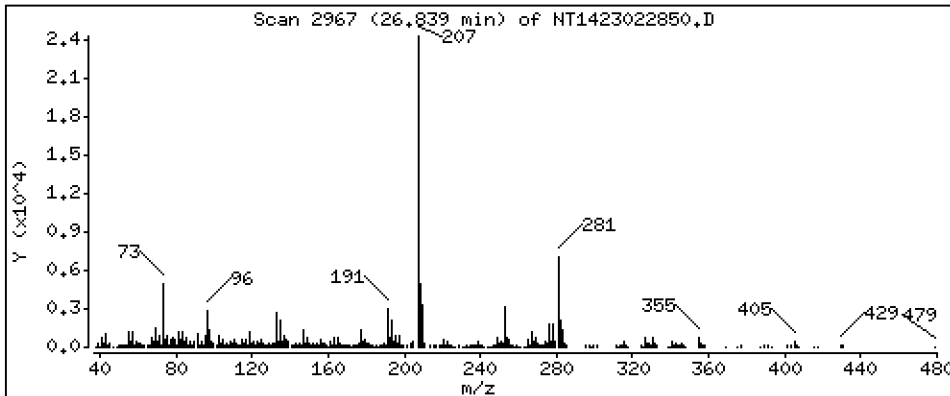
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

79 Dibenzo(a,h)anthracene

Concentration: 0.09126 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

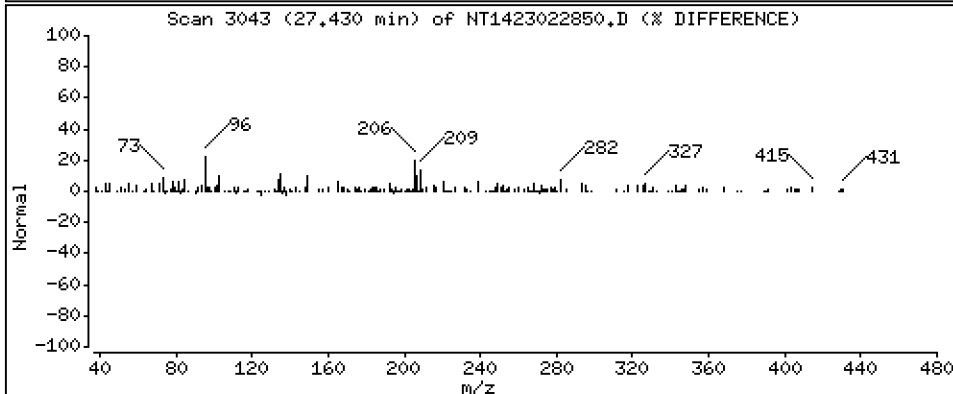
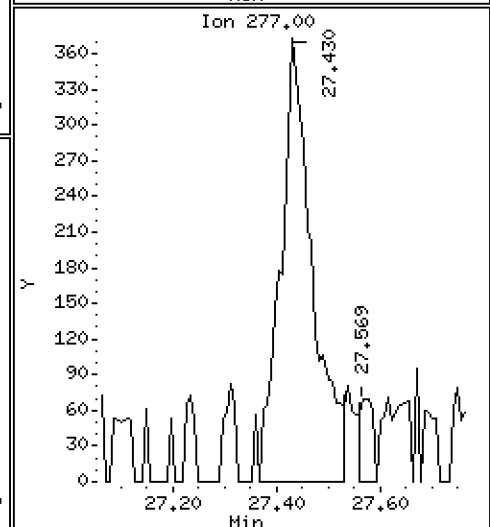
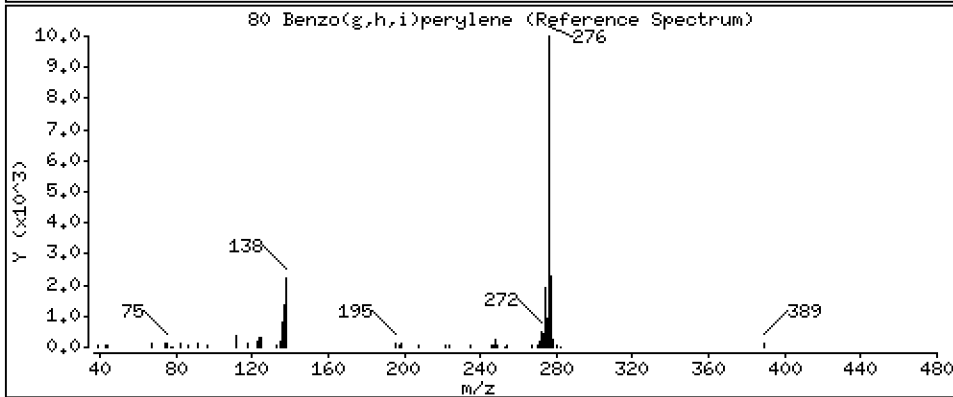
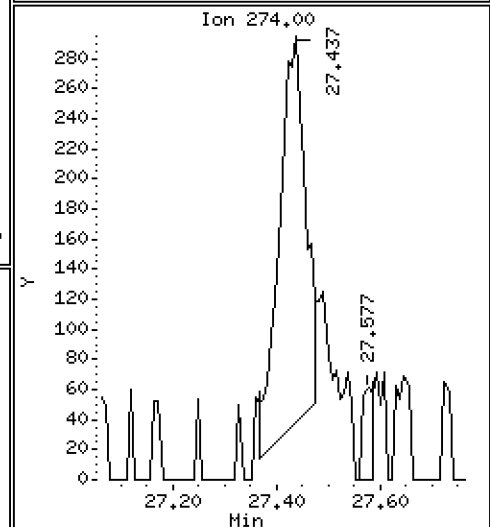
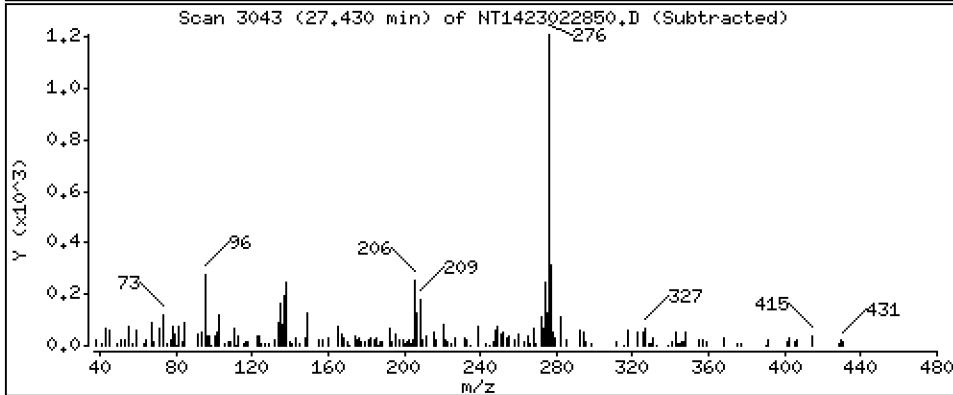
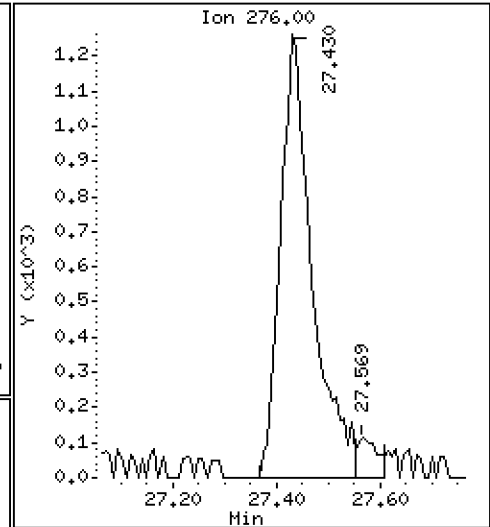
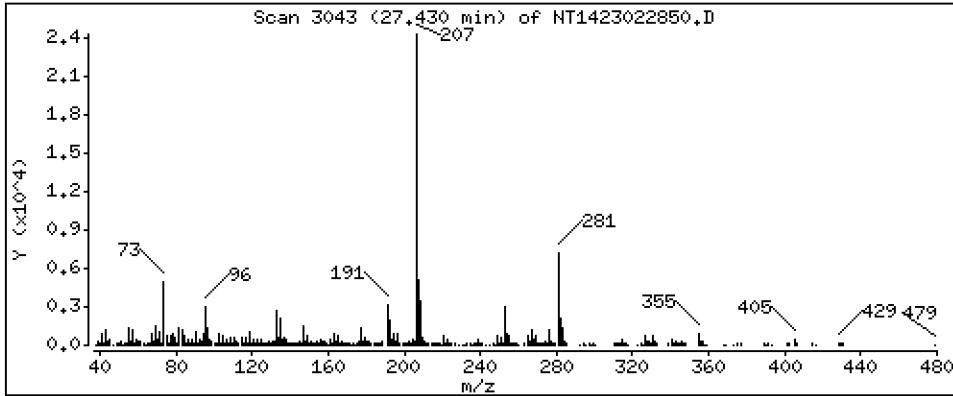
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 0,07207 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

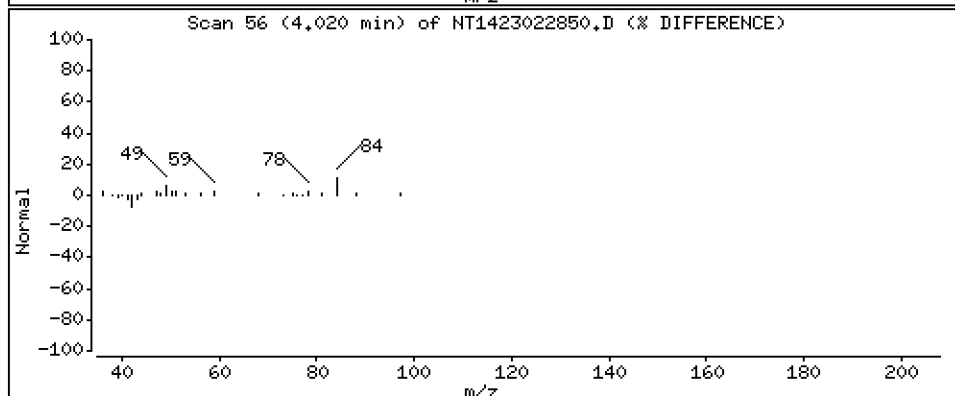
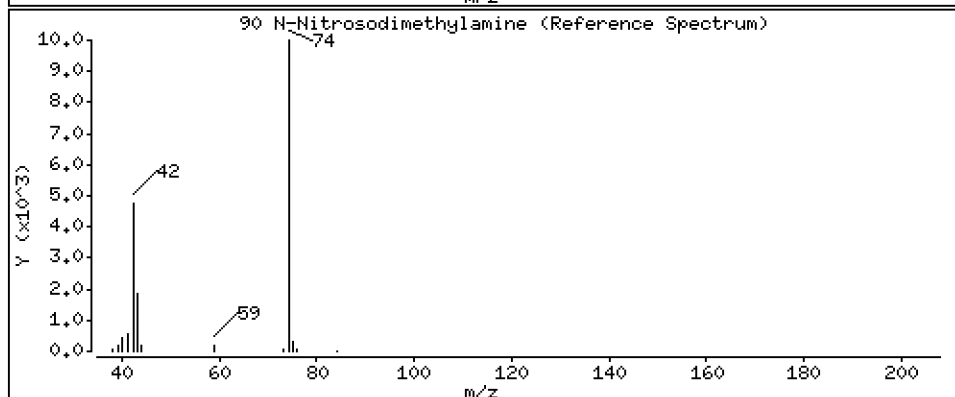
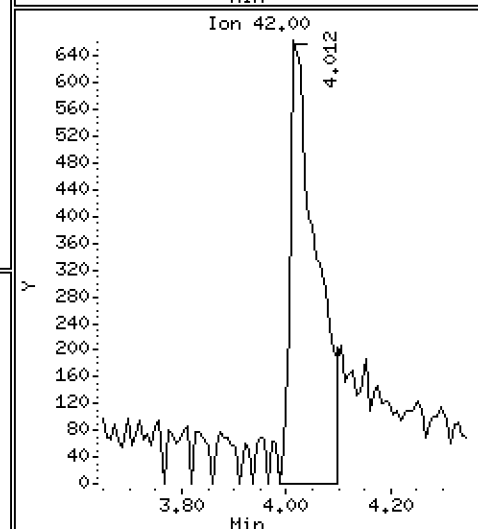
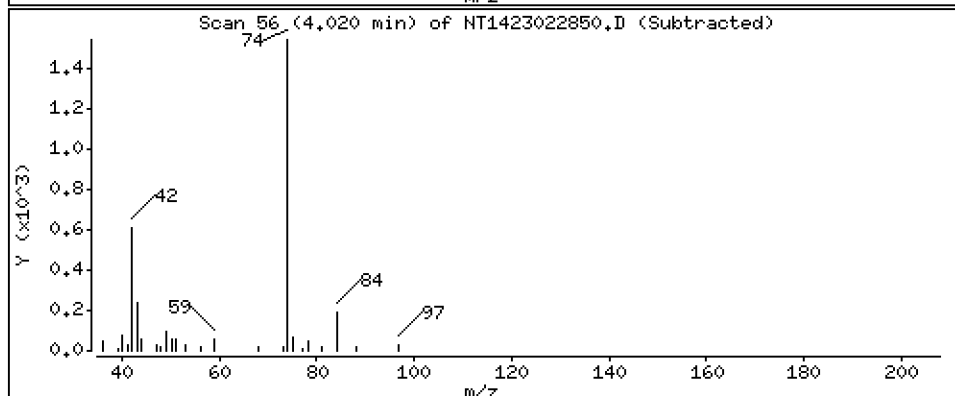
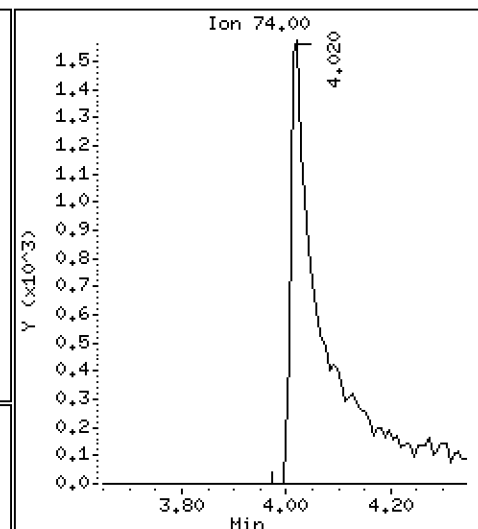
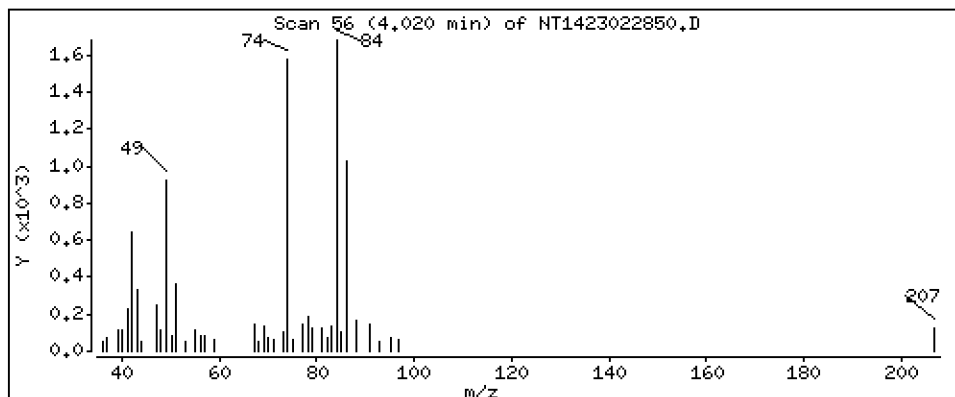
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

90 N-Nitrosodimethylamine

Concentration: 0,3584 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

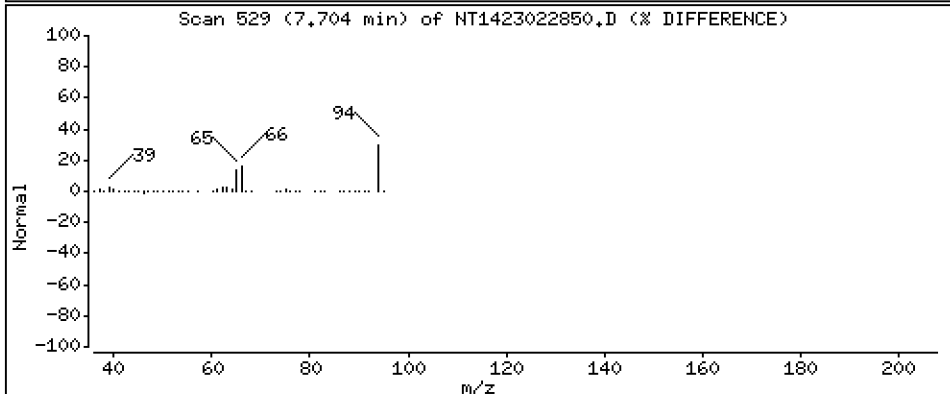
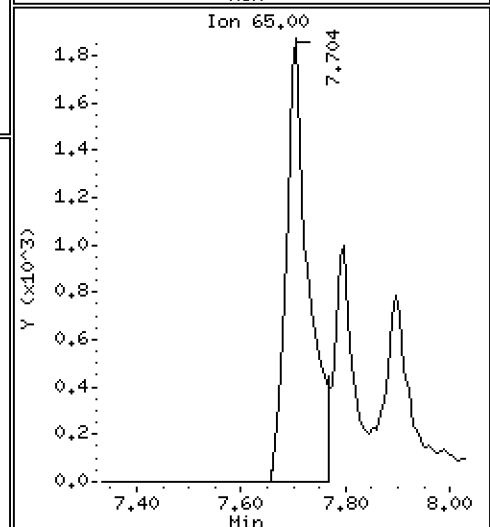
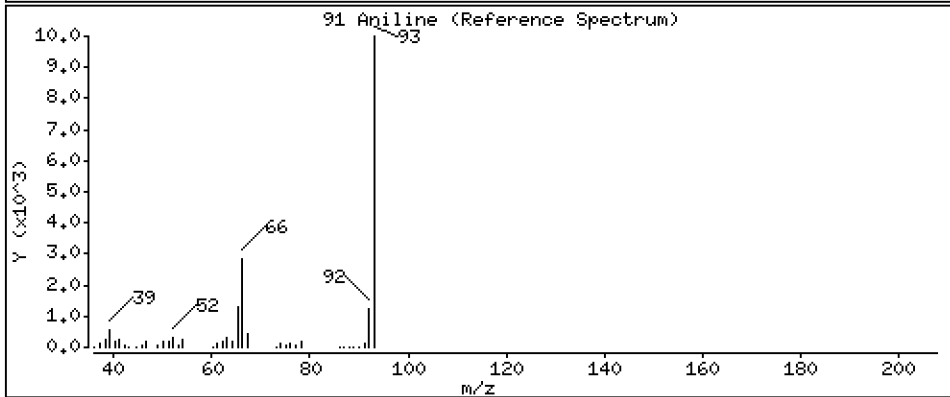
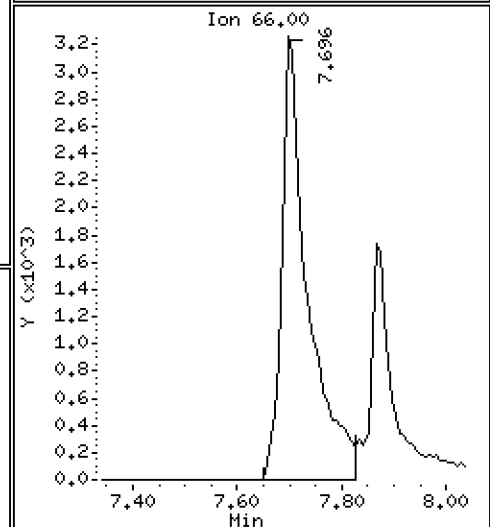
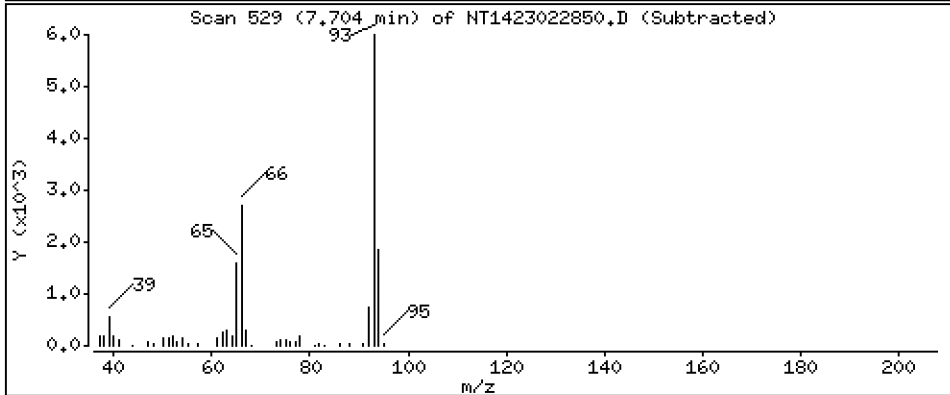
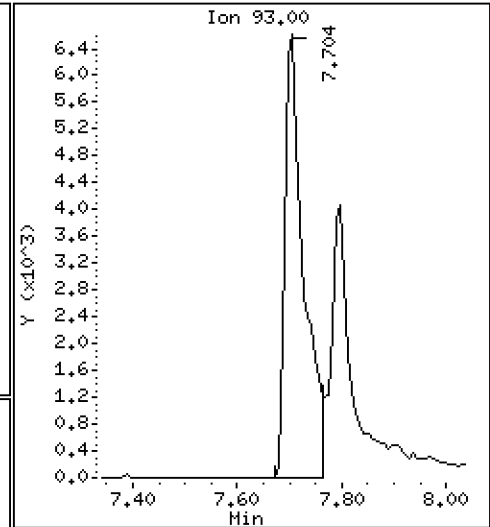
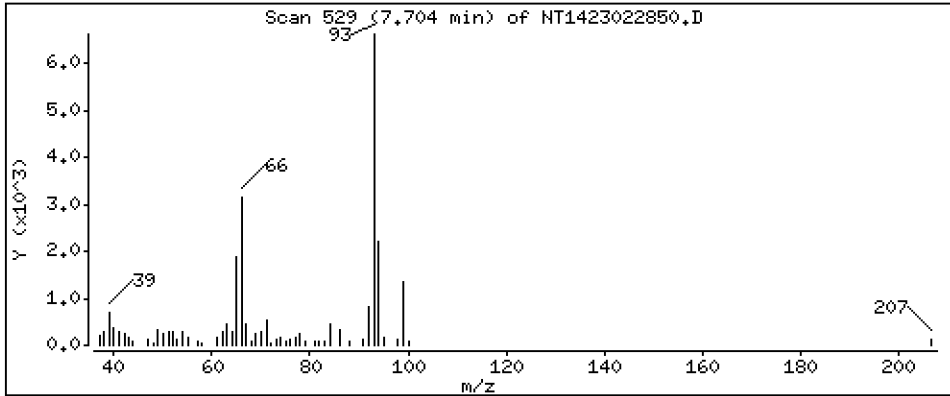
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

91 Aniline

Concentration: 0.3036 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

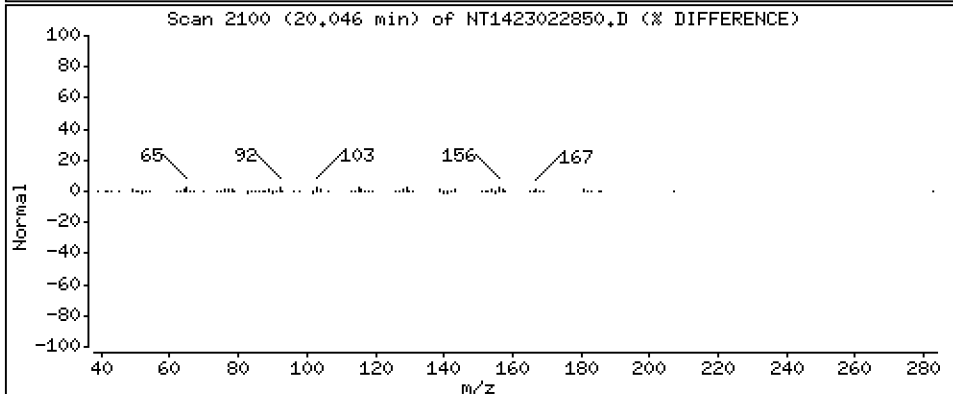
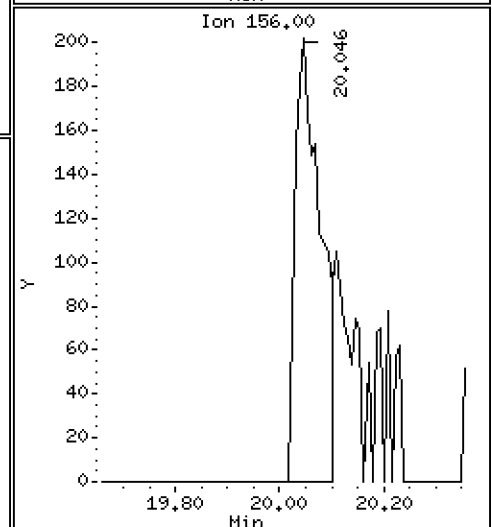
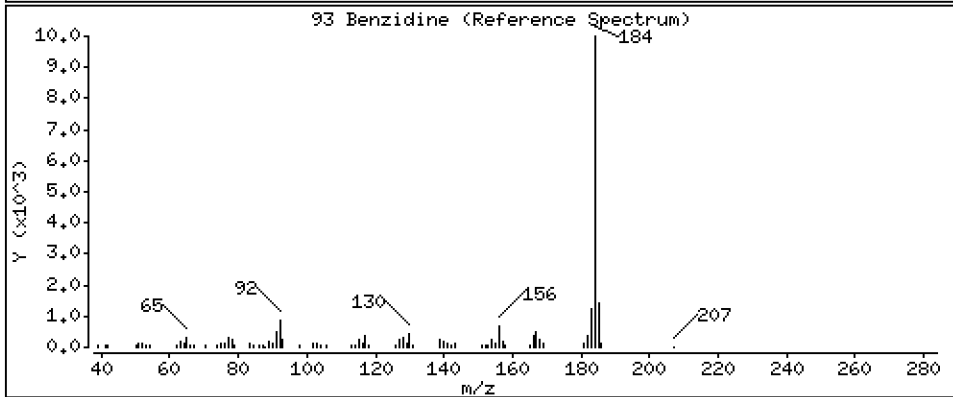
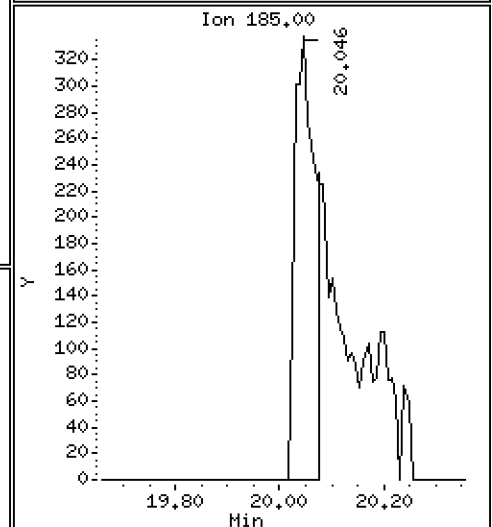
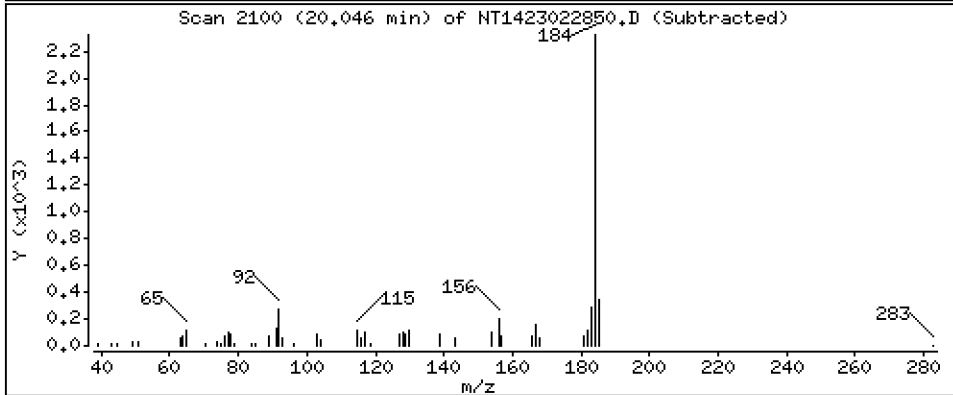
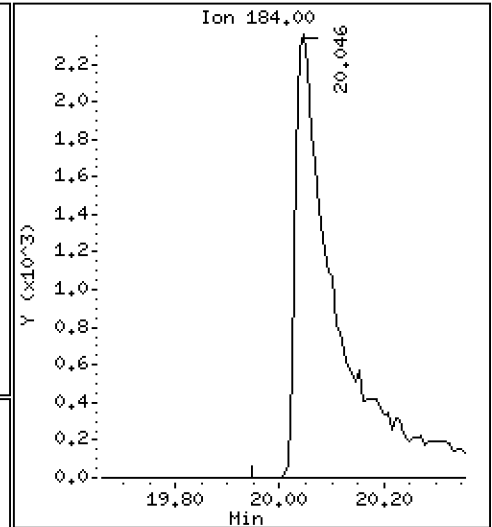
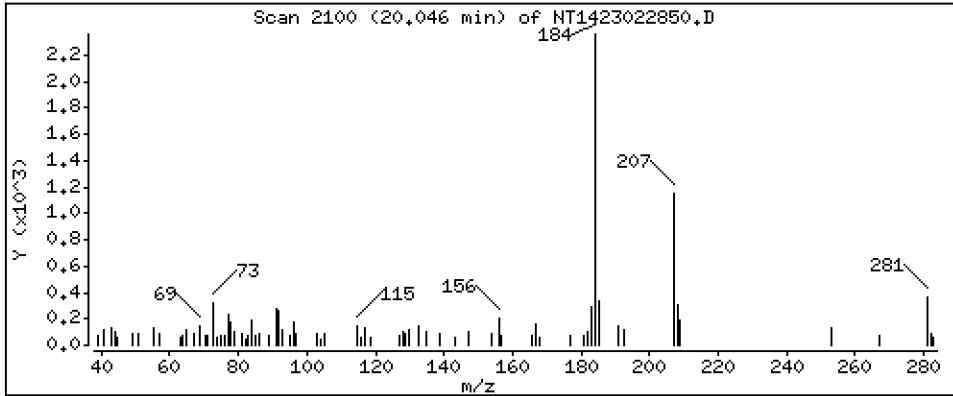
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

93 Benzidine

Concentration: 0,2674 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

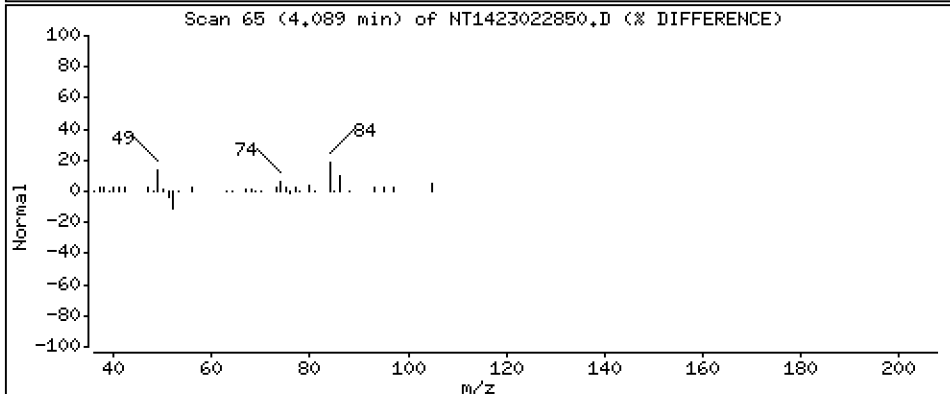
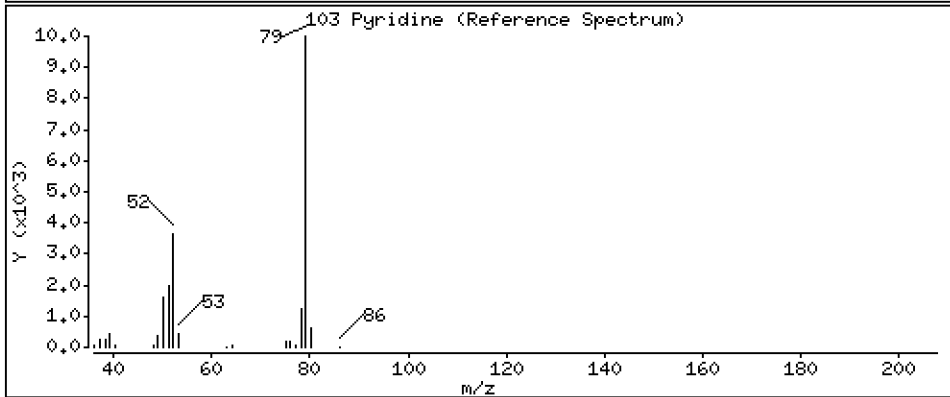
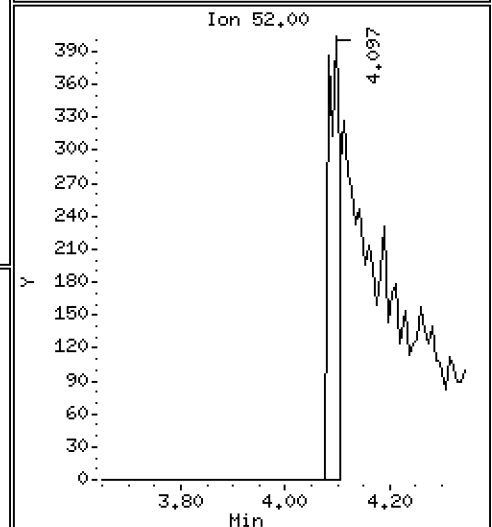
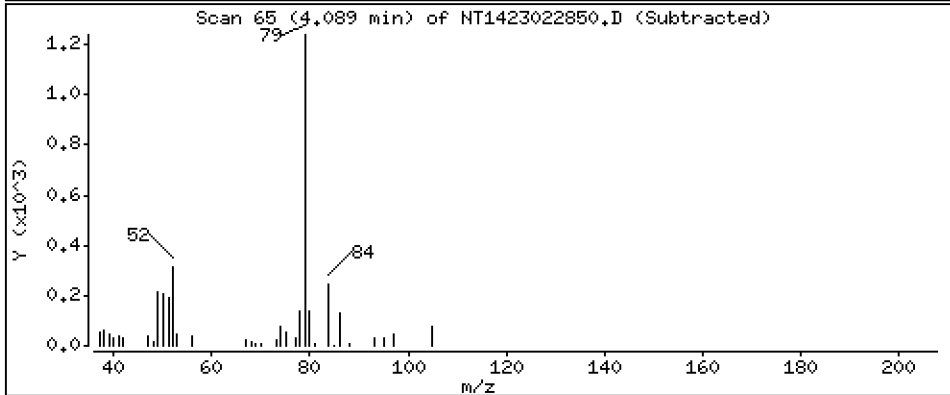
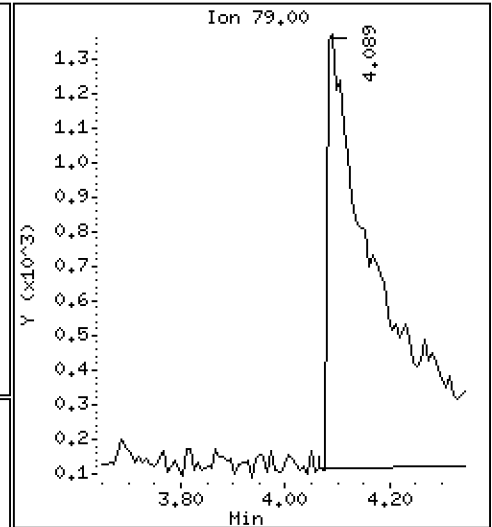
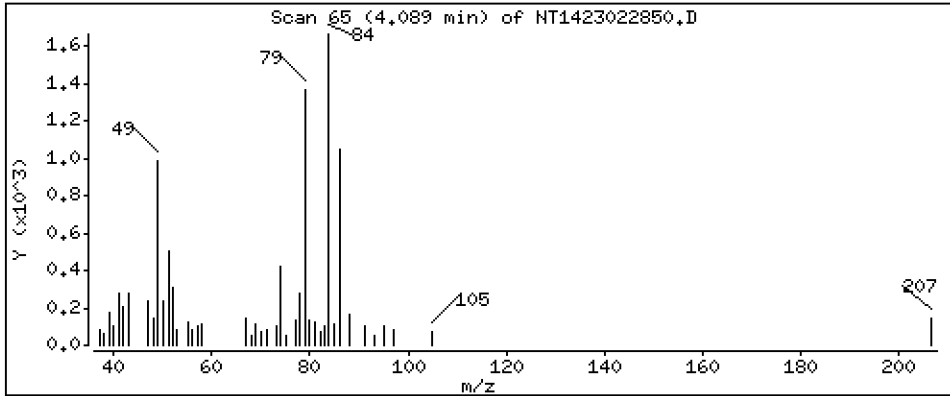
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

103 Pyridine

Concentration: 0.1595 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

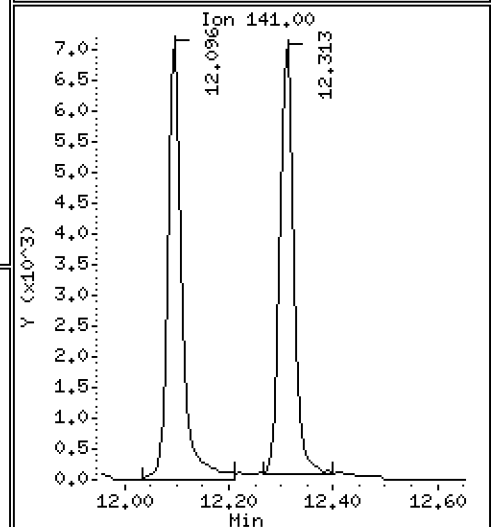
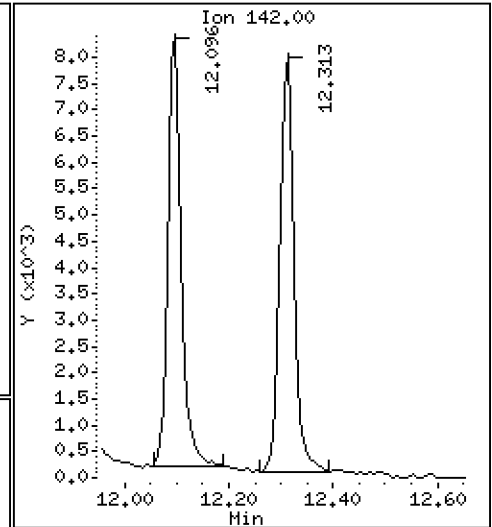
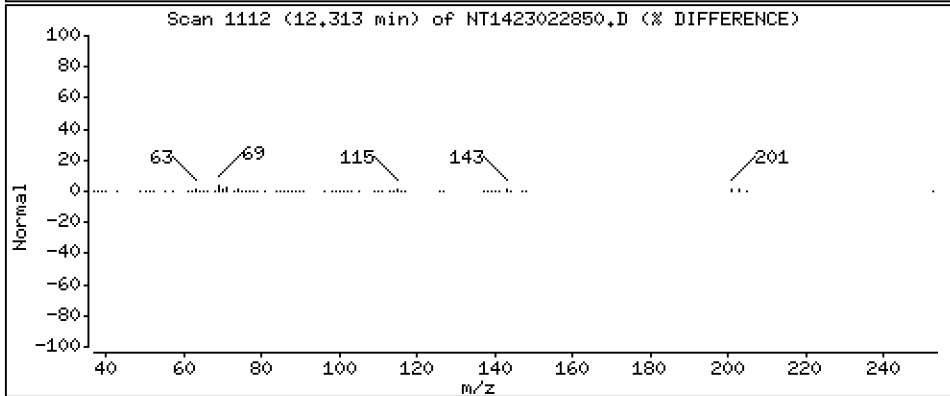
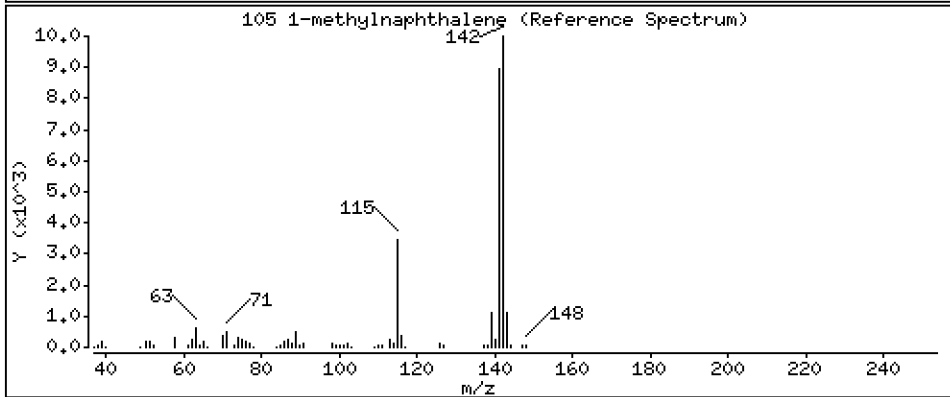
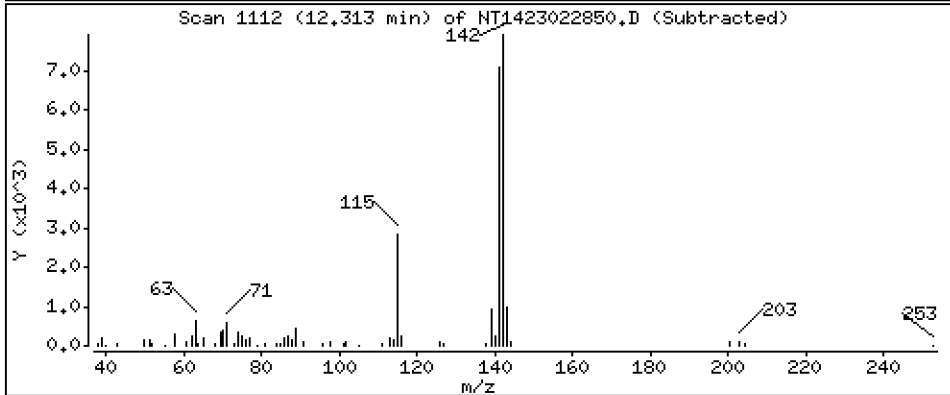
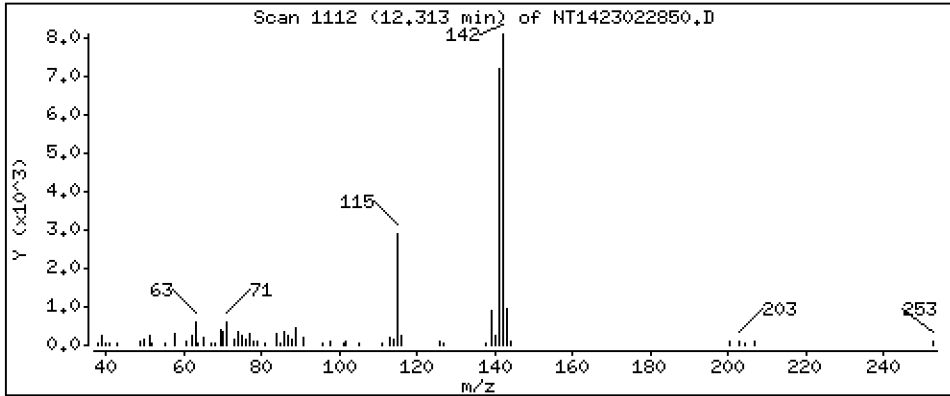
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 0,1941 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

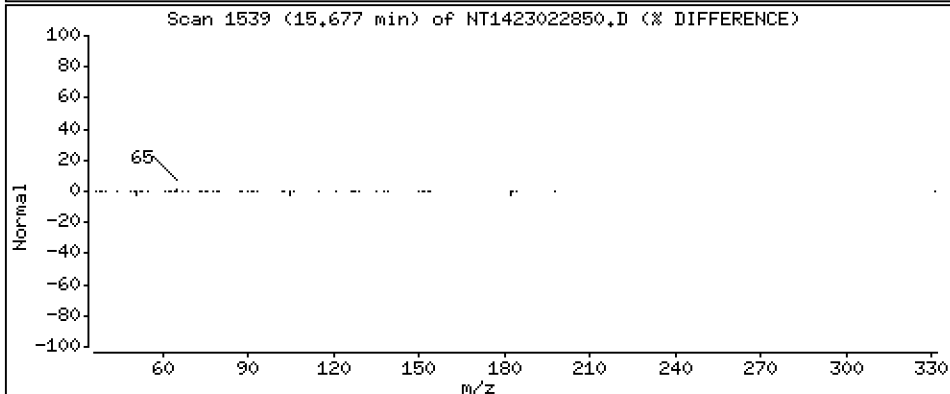
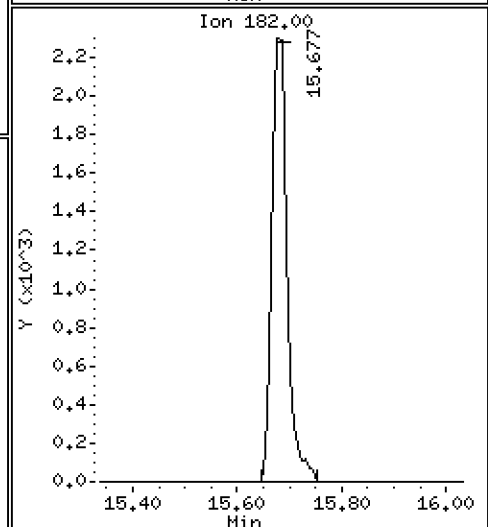
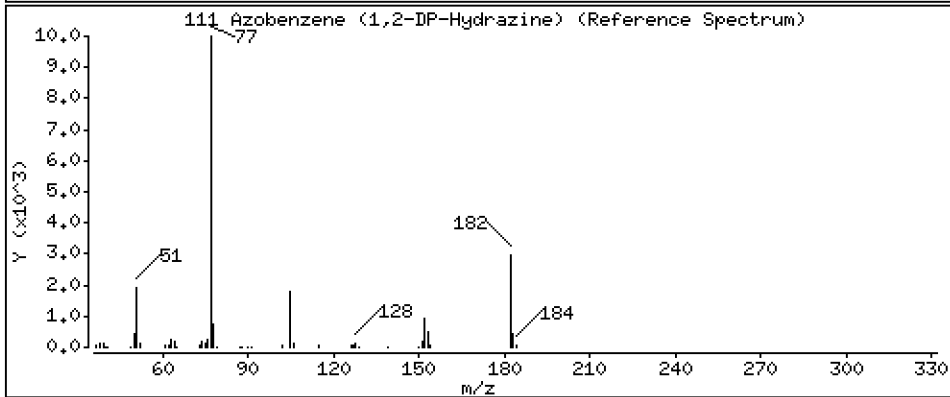
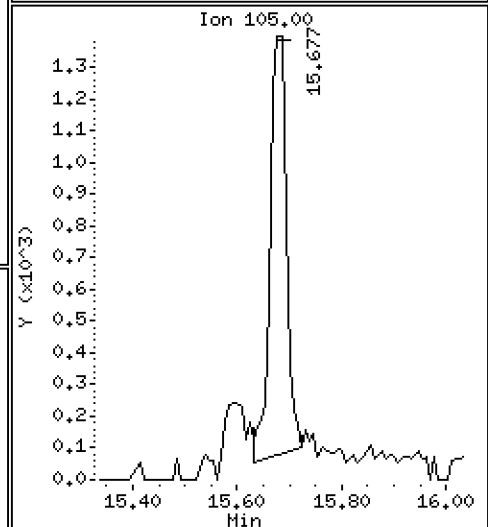
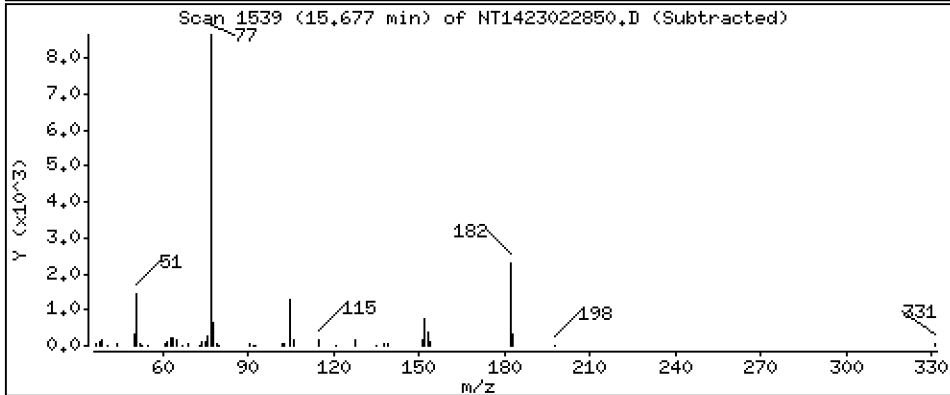
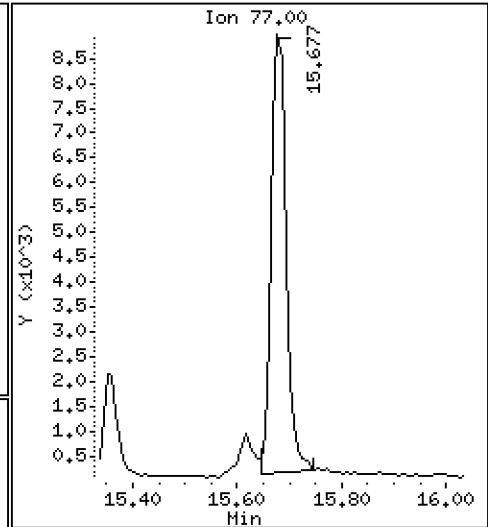
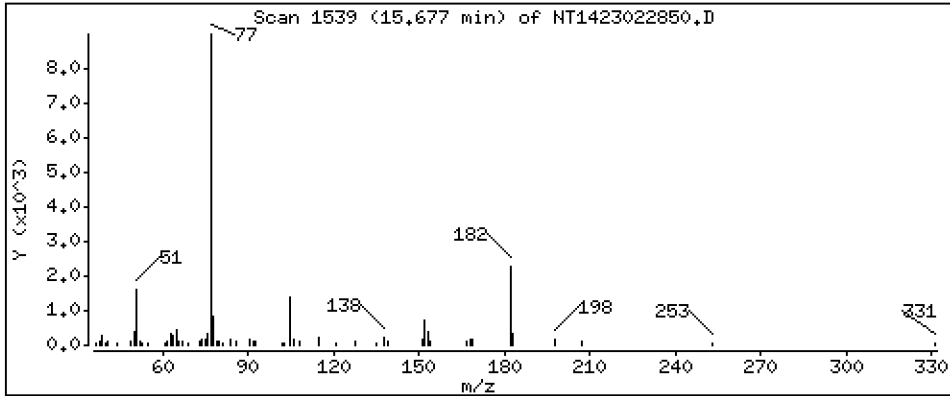
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 0,2145 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

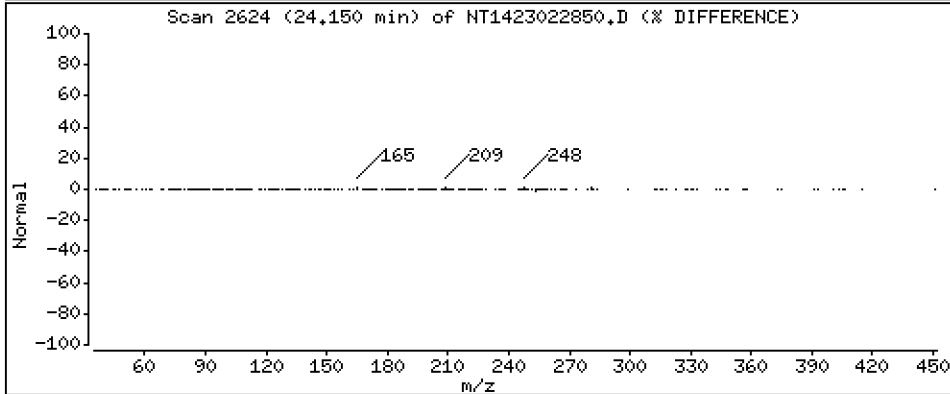
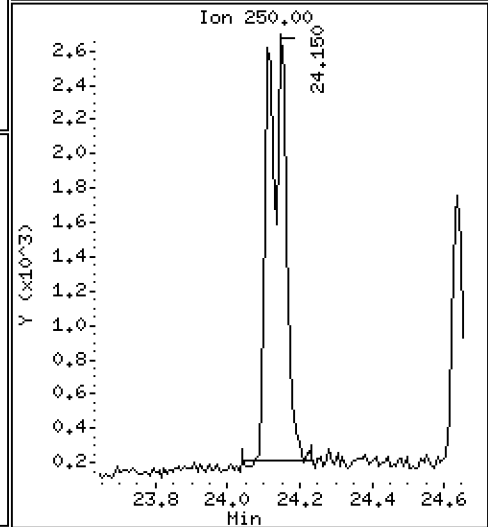
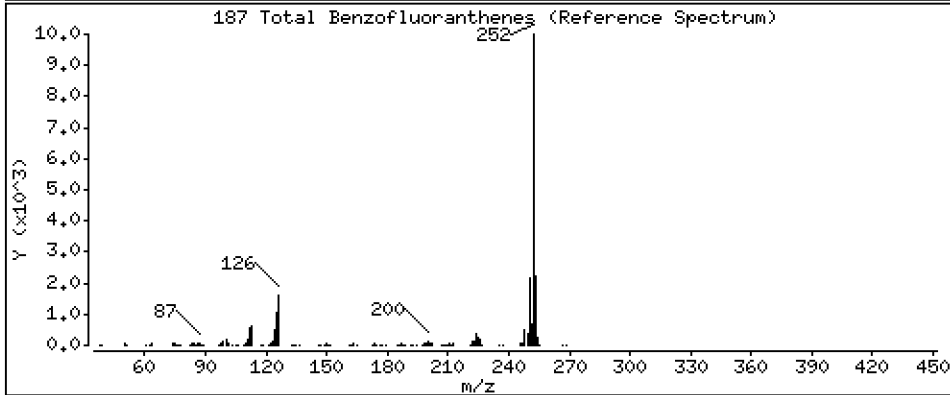
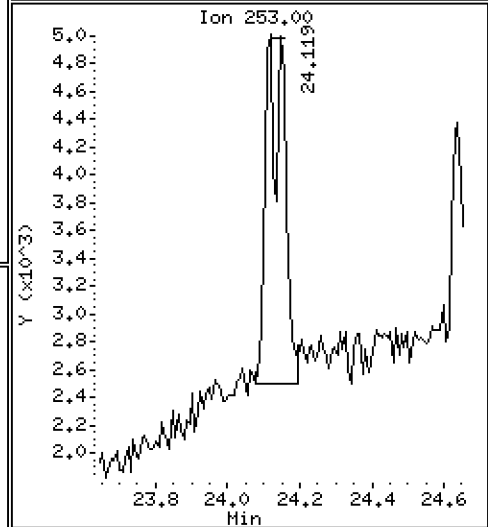
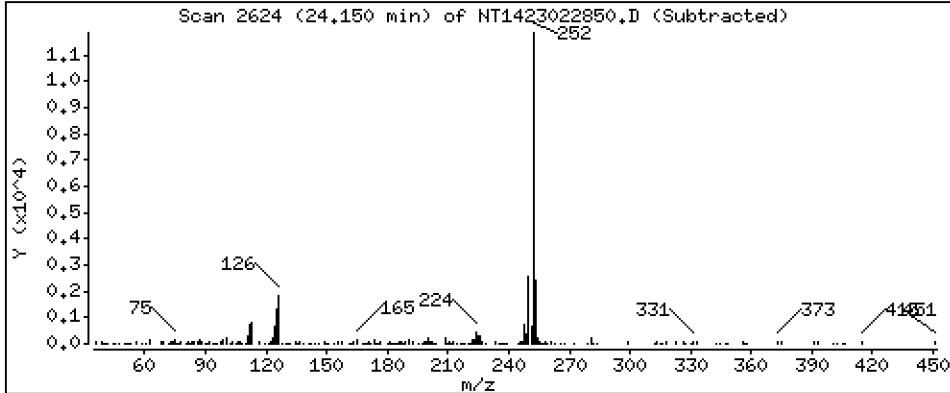
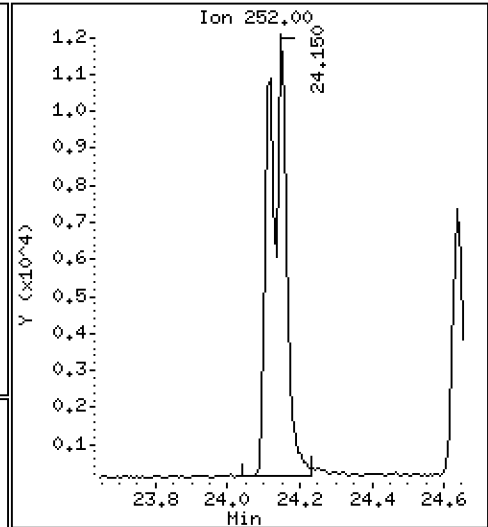
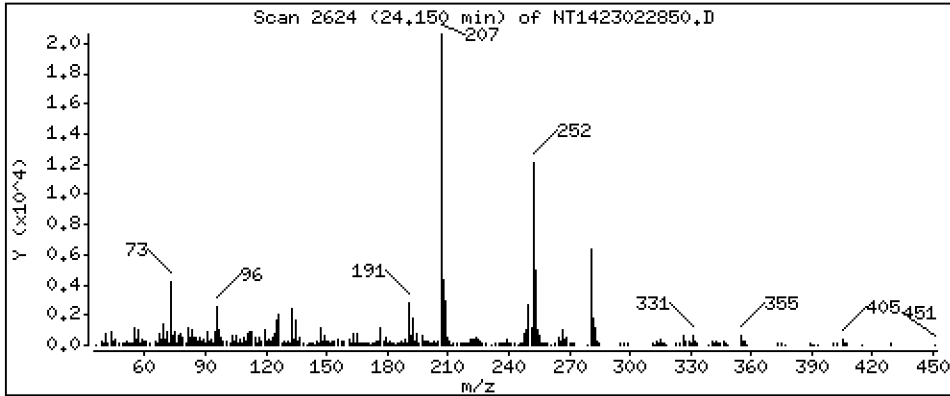
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 0,5206 ug/mL



Date : 02-MAR-2023 07:04

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV5

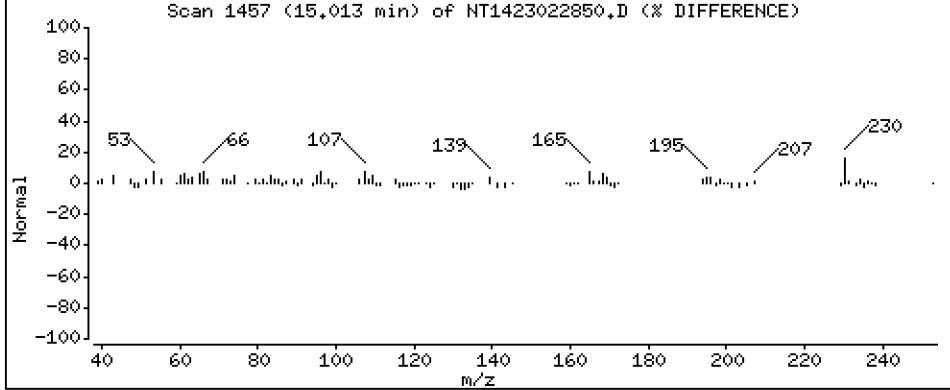
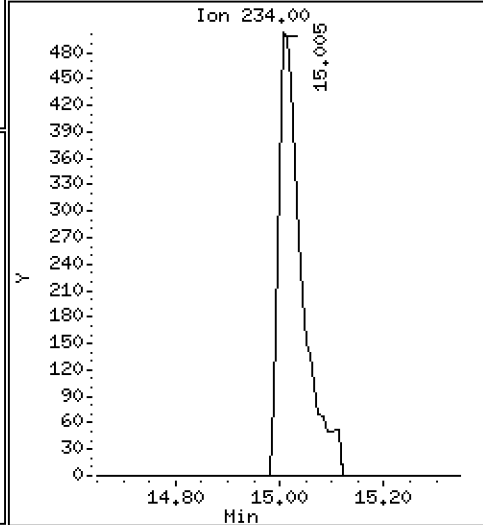
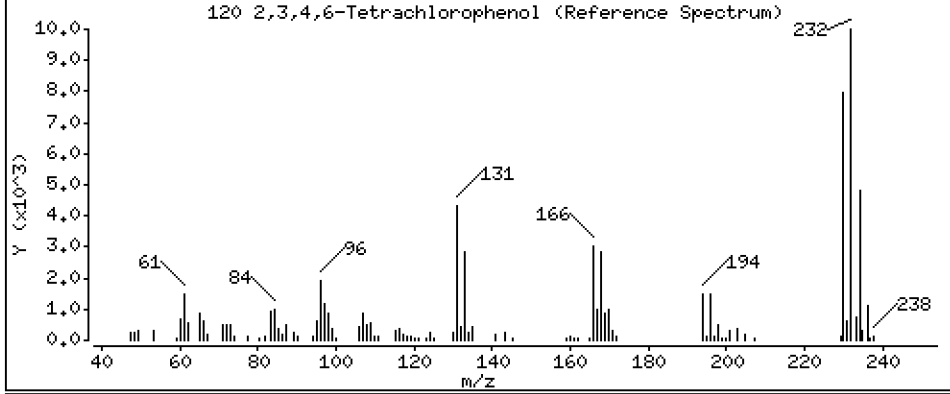
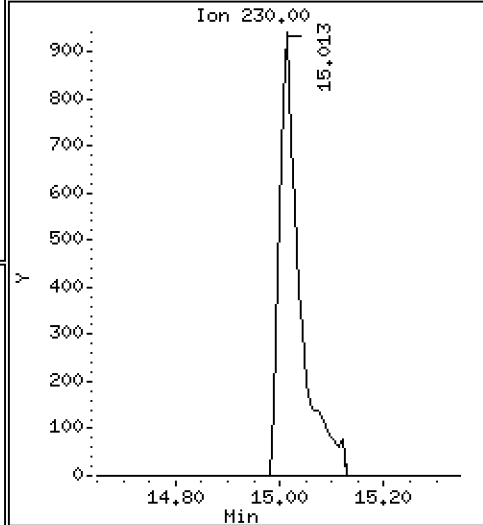
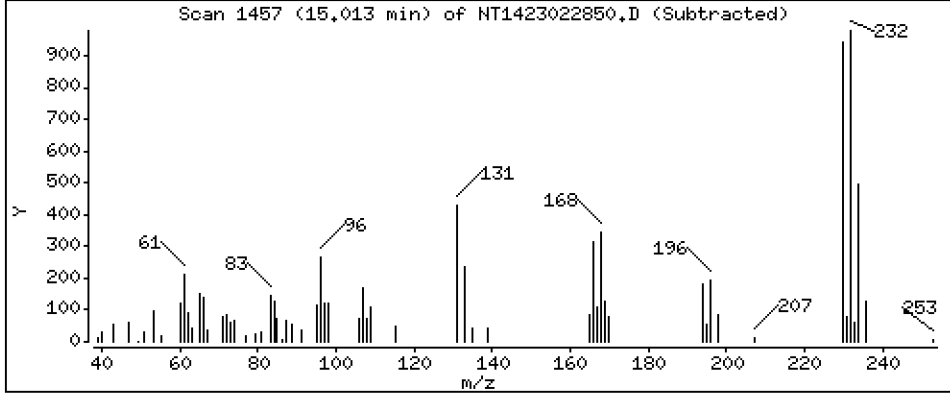
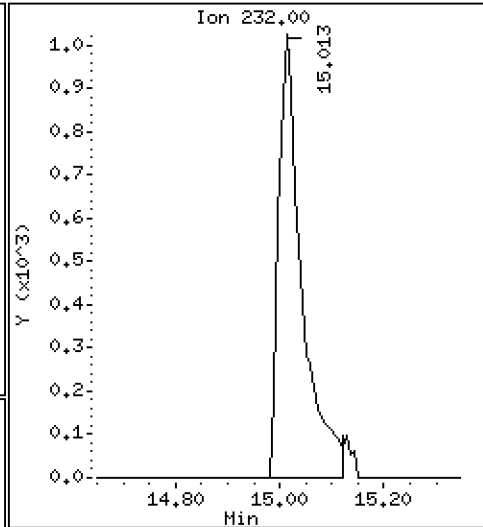
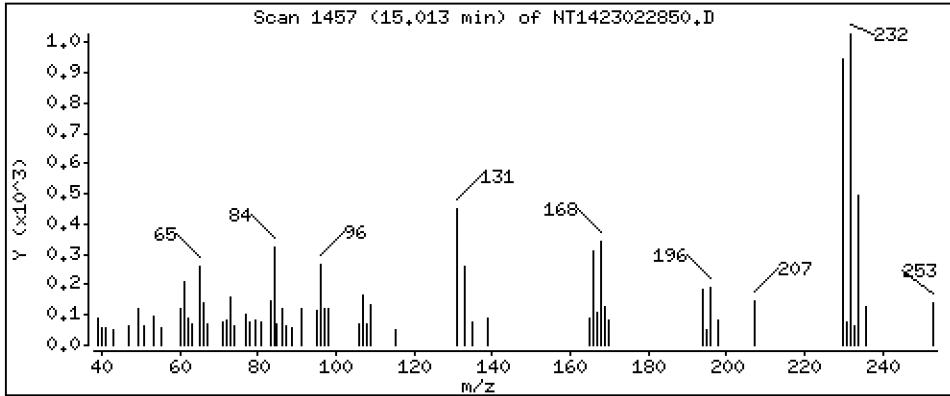
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

120 2,3,4,6-Tetrachlorophenol

Concentration: 0,1313 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230228.b\NT1423022850.D
 Lab Smp Id: SLB0374-LCV5
 Inj Date : 02-MAR-2023 07:04 MS Autotune Date: 17-MAY-2011 01:22
 Operator : JGR Inst ID: nt14.i
 Smp Info : SLB0374-LCV5
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt14.i\20230228.b\ABN.m
 Meth Date : 11-Mar-2023 13:20 van Quant Type: ISTD
 Cal Date : 28-FEB-2023 15:16 Cal File: NT1423022808.D
 Als bottle: 8
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: ICAL.sub
 Target Version: 4.14
 Processing Host: VANS-201906

| Compounds | QUANT | SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|---------------------------------|-------|-----|------------------------|--------|---------|----------|----------------|-------------|
| | | | | | | | ON-COLUMN | FINAL |
| | MASS | | | | | | (ug/mL) | (ug/mL) |
| \$ 1 2-Fluorophenol | 112 | | 6.081 | 6.066 | (0.741) | 6760 | 0.21593 | 0.2159 |
| \$ 2 Phenol-d5 | 99 | | 7.665 | 7.650 | (0.934) | 10511 | 0.23647 | 0.2365 |
| 3 Phenol | 94 | | 7.696 | 7.673 | (0.938) | 8829 | 0.16648 | 0.1665 |
| \$ 5 2-Chlorophenol-d4 | 132 | | 7.874 | 7.858 | (0.959) | 10636 | 0.28141 | 0.2814 |
| 4 Bis(2-Chloroethyl)ether | 93 | | 7.796 | 7.789 | (0.950) | 8859 | 0.23657 | 0.2366 |
| 6 2-Chlorophenol | 128 | | 7.897 | 7.889 | (0.962) | 8131 | 0.20814 | 0.2081 |
| 7 1,3-Dichlorobenzene | 146 | | 8.145 | 8.137 | (0.992) | 9218 | 0.21412 | 0.2141 |
| * 8 1,4-Dichlorobenzene-d4 | 152 | | 8.207 | 8.207 | (1.000) | 115459 | 4.00000 | |
| 9 1,4-Dichlorobenzene | 146 | | 8.238 | 8.238 | (1.004) | 8848 | 0.20795 | 0.2080 |
| \$ 10 1,2-Dichlorobenzene-d4 | 152 | | 8.564 | 8.556 | (1.043) | 5515 | 0.19382 | 0.1938 |
| 12 1,2-Dichlorobenzene | 146 | | 8.587 | 8.579 | (1.046) | 8604 | 0.21089 | 0.2109 |
| 11 Benzyl alcohol | 108 | | 8.680 | 8.517 | (1.058) | 1896 | 0.08203 | 0.08203 (M) |
| 14 2,2'-oxybis(1-Chloropropane) | 121 | | 8.796 | 8.797 | (1.072) | 2226 | 0.20231 | 0.2023 |
| 13 2-Methylphenol | 108 | | 8.781 | 8.758 | (1.070) | 5822 | 0.17377 | 0.1738 |
| 17 Hexachloroethane | 117 | | 9.161 | 9.162 | (1.116) | 2411 | 0.15089 | 0.1509 |
| 16 N-Nitroso-di-n-propylamine | 70 | | 9.060 | 9.061 | (1.104) | 5410 | 0.21207 | 0.2121 |
| 15 4-Methylphenol | 108 | | 9.068 | 9.037 | (1.105) | 5461 | 0.13986 | 0.1399 |
| \$ 18 Nitrobenzene-d5 | 82 | | 9.309 | 9.293 | (0.873) | 8210 | 0.20476 | 0.2048 |
| 19 Nitrobenzene | 77 | | 9.340 | 9.332 | (0.876) | 7891 | 0.20481 | 0.2048 |
| 20 Isophorone | 82 | | 9.782 | 9.782 | (0.918) | 9880 | 0.16404 | 0.1640 |
| 21 2-Nitrophenol | 139 | | 9.968 | 9.953 | (0.935) | 2607 | 0.13075 | 0.1308 |
| 22 2,4-Dimethylphenol | 107 | | 10.069 | 10.054 | (0.945) | 14284 | 0.40666 | 0.4067 |
| 23 Bis(2-Chloroethoxy)methane | 93 | | 10.240 | 10.232 | (0.961) | 7037 | 0.18167 | 0.1817 |
| 24 Benzoic acid | 105 | | Compound Not Detected. | | | | | |
| 25 2,4-Dichlorophenol | 162 | | 10.456 | 10.418 | (0.981) | 11736 | 0.32933 | 0.3293 (M) |
| 26 1,2,4-Trichlorobenzene | 180 | | 10.588 | 10.580 | (0.993) | 7761 | 0.19551 | 0.1955 |
| * 27 Naphthalene-d8 | 136 | | 10.657 | 10.665 | (1.000) | 409877 | 4.00000 | |
| 28 Naphthalene | 128 | | 10.703 | 10.704 | (1.004) | 23851 | 0.21816 | 0.2182 |
| 29 4-Chloroaniline | 127 | | 10.889 | 10.866 | (1.022) | 16021 | 0.34260 | 0.3426 (M) |
| 30 Hexachlorobutadiene | 225 | | 11.074 | 11.074 | (1.039) | 4389 | 0.18119 | 0.1812 |
| 31 4-Chloro-3-methylphenol | 107 | | 11.887 | 11.856 | (1.115) | 10848 | 0.34311 | 0.3431 |
| 32 2-Methylnaphthalene | 142 | | 12.096 | 12.088 | (1.135) | 14942 | 0.18455 | 0.1846 |
| 33 Hexachlorocyclopentadiene | 237 | | Compound Not Detected. | | | | | |

| Compounds | QUANT SIG | | | | | CONCENTRATIONS | | |
|-----------------------------------|-----------|------------------------|--------|---------|----------|----------------------|------------------|--|
| | MASS | RT | EXP RT | REL RT | RESPONSE | ON-COLUMN (ug/mL) | FINAL (ug/mL) | |
| 34 2,4,6-Trichlorophenol | 196 | 12.746 | 12.731 | (0.895) | 7293 | 0.32414 | 0.3241 | |
| 35 2,4,5-Trichlorophenol | 196 | 12.839 | 12.808 | (0.901) | 10192 | 0.41896 | 0.4190 (M) | |
| § 36 2-Fluorobiphenyl | 172 | 12.885 | 12.885 | (0.904) | 18644 | 0.20797 | 0.2080 | |
| 37 2-Chloronaphthalene | 162 | 13.079 | 13.071 | (0.918) | 14974 | 0.20837 | 0.2084 | |
| 38 2-Nitroaniline | 65 | 13.380 | 13.365 | (0.939) | 6886 | 0.36740 | 0.3674 | |
| 39 Dimethylphthalate | 163 | 13.806 | 13.806 | (0.969) | 15187 | 0.20963 | 0.2096 | |
| 40 Acenaphthylene | 152 | 13.930 | 13.930 | (0.978) | 23028 | 0.21838 | 0.2184 | |
| 41 2,6-Dinitrotoluene | 165 | 13.938 | 13.938 | (0.978) | 6188 | 0.36449 | 0.3645 | |
| * 42 Acenaphthene-d10 | 164 | 14.247 | 14.247 | (1.000) | 230328 | 4.00000 | | |
| 43 3-Nitroaniline | 138 | 14.255 | 14.216 | (1.001) | 5369 | 0.30856 | 0.3086 (M) | |
| 44 Acenaphthene | 153 | 14.309 | 14.309 | (1.004) | 14213 | 0.21052 | 0.2105 | |
| 45 2,4-Dinitrophenol | 184 | Compound Not Detected. | | | | | | |
| 46 Dibenzofuran | 168 | 14.641 | 14.642 | (1.028) | 21500 | 0.20014 | 0.2001 | |
| 47 4-Nitrophenol | 109 | Compound Not Detected. | | | | | | |
| 48 2,4-Dinitrotoluene | 165 | 14.742 | 14.734 | (1.035) | 7190 | 0.29419 | 0.2942 | |
| 50 Diethylphthalate | 149 | 15.252 | 15.260 | (1.071) | 14688 | 0.21680 | 0.2168 | |
| 49 Fluorene | 166 | 15.345 | 15.345 | (1.077) | 19196 | 0.21208 | 0.2121 | |
| 51 4-Chlorophenyl-phenylether | 204 | 15.361 | 15.361 | (1.078) | 9443 | 0.19608 | 0.1961 | |
| 52 4-Nitroaniline | 138 | 15.538 | 15.484 | (1.091) | 5026 | 0.29139 | 0.2914 (M) | |
| 53 4,6-Dinitro-2-methylphenol | 198 | 15.584 | 15.569 | (0.903) | 2288 | 0.16480 | 0.1648 (M) | |
| 54 N-Nitrosodiphenylamine | 169 | 15.615 | 15.615 | (0.905) | 11367 | 0.21653 | 0.2165 | |
| § 55 2,4,6-Tribromophenol | 330 | 15.893 | 15.885 | (1.116) | 2778 | 0.22458 | 0.2246 | |
| 56 4-Bromophenyl-phenylether | 248 | 16.348 | 16.348 | (0.948) | 4444 | 0.19255 | 0.1925 | |
| 57 Hexachlorobenzene | 284 | 16.641 | 16.642 | (0.965) | 5111 | 0.20142 | 0.2014 | |
| 58 Pentachlorophenol | 266 | 17.052 | 17.013 | (0.988) | 1731 | 0.14503 | 0.1450 (M) | |
| * 59 Phenanthrene-d10 | 188 | 17.253 | 17.253 | (1.000) | 417754 | 4.00000 | | |
| 60 Phenanthrene | 178 | 17.299 | 17.299 | (1.003) | 23378 | 0.21036 | 0.2104 | |
| 61 Anthracene | 178 | 17.392 | 17.392 | (1.008) | 21508 | 0.20472 | 0.2047 | |
| 62 Carbazole | 167 | 17.763 | 17.748 | (1.030) | 17276 | 0.18762 | 0.1876 | |
| 63 Di-n-butylphthalate | 149 | 18.599 | 18.599 | (1.078) | 22997 | 0.19336 | 0.1934 | |
| 64 Fluoranthene | 202 | 19.729 | 19.729 | (0.882) | 23601 | 0.17631 | 0.1763 | |
| 65 Pyrene | 202 | 20.154 | 20.154 | (0.901) | 25934 | 0.18375 | 0.1838 | |
| § 66 Terphenyl-d14 | 244 | 20.487 | 20.479 | (0.916) | 19507 | 0.17951 | 0.1795 | |
| 67 Butylbenzylphthalate | 149 | 21.447 | 21.447 | (0.958) | 9988 | 0.19992 | 0.1999 | |
| 68 Benzo(a)anthracene | 228 | 22.345 | 22.353 | (0.999) | 26073 | 0.22060 | 0.2206 | |
| * 69 Chrysene-d12 | 240 | 22.376 | 22.376 | (1.000) | 352830 | 4.00000 | | |
| 70 3,3'-Dichlorobenzidine | 252 | 22.337 | 22.338 | (0.998) | 24208 | 0.71722 | 0.7172 | |
| 71 Chrysene | 228 | 22.415 | 22.423 | (1.002) | 24137 | 0.21247 | 0.2125 | |
| 72 bis(2-Ethylhexyl)phthalate | 149 | 22.500 | 22.500 | (0.958) | 13826 | 0.18117 | 0.1812 | |
| * 134 Di-n-octylphthalate-d4 | 153 | 23.483 | 23.483 | (1.000) | 499736 | 4.00000 | | |
| 73 Di-n-octylphthalate | 149 | 23.491 | 23.491 | (1.000) | 27092 | 0.20590 | 0.2059 | |
| 74 Benzo(b)fluoranthene | 252 | 24.118 | 24.118 | (0.975) | 19800 | 0.25024 | 0.2502 | |
| 75 Benzo(k)fluoranthene | 252 | 24.149 | 24.149 | (0.977) | 22676 | 0.26565 | 0.2656 | |
| 76 Benzo(a)pyrene | 252 | 24.637 | 24.637 | (0.996) | 14828 | 0.21844 | 0.2184 | |
| * 77 Perylene-d12 | 264 | 24.730 | 24.730 | (1.000) | 239484 | 4.00000 | | |
| 78 Indeno(1,2,3-cd)pyrene | 276 | 26.831 | 26.808 | (1.085) | 7715 | 0.09029 | 0.09029 | |
| 79 Dibenzo(a,h)anthracene | 278 | 26.839 | 26.824 | (1.085) | 6623 | 0.09126 | 0.09126 | |
| 80 Benzo(g,h,i)perylene | 276 | 27.429 | 27.414 | (1.109) | 5371 | 0.07207 | 0.07207 | |
| 90 N-Nitrosodimethylamine | 74 | 4.019 | 3.996 | (0.490) | 8510 | 0.35840 | 0.3584 (M) | |
| 91 Aniline | 93 | 7.704 | 7.689 | (0.939) | 16641 | 0.30355 | 0.3036 | |
| 93 Benzidine | 184 | 20.046 | 20.007 | (0.896) | 15312 | 0.26739 | 0.2674 (M) | |
| 103 Pyridine | 79 | 4.089 | 3.996 | (0.498) | 11188 | 0.15953 | 0.1595 (M) | |
| 105 1-methylnaphthalene | 142 | 12.312 | 12.305 | (1.155) | 14471 | 0.19414 | 0.1941 | |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77 | 15.677 | 15.685 | (1.100) | 16686 | 0.21454 | 0.2145 | |

| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|-------------------------------|-----------|--------|--------|---------|----------|----------------------|------------------|
| | | | | | | ON-COLUMN (ug/mL) | FINAL (ug/mL) |
| 187 Total Benzofluoranthenes | 252 | 24.149 | 24.149 | (0.977) | 40295 | 0.52061 | 0.5206 |
| 120 2,3,4,6-Tetrachlorophenol | 232 | 15.012 | 14.997 | (1.054) | 3401 | 0.13127 | 0.1313 |

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 02-MAR-2023
 Lab File ID: NT1423022850.D Calibration Time: 05:52
 Lab Smp Id: SLB0374-LCV5
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: JGR
 Method File: \\target\share\chem3\nt14.i\20230228.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|--------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 116519 | 58260 | 233038 | 115459 | -0.91 |
| 27 Naphthalene-d8 | 429090 | 214545 | 858180 | 409877 | -4.48 |
| 42 Acenaphthene-d10 | 250637 | 125319 | 501274 | 230328 | -8.10 |
| 59 Phenanthrene-d10 | 458117 | 229059 | 916234 | 417754 | -8.81 |
| 69 Chrysene-d12 | 393468 | 196734 | 786936 | 352830 | -10.33 |
| 134 Di-n-octylphthala | 572636 | 286318 | 1145272 | 499736 | -12.73 |
| 77 Perylene-d12 | 283320 | 141660 | 566640 | 239484 | -15.47 |

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

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

REVIEW SUMMARY FOR FILE - NT1423022850.D

Lab ID: SLB0374-LCV5
nt14.i, ABN.m, 02-MAR-2023 07:04

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT | CCV RRT | DELTA | COMPOUND |
|-------|---------|--------|----------------|
| 1.058 | 1.038 | 0.0199 | Benzyl alcohol |
| 0.498 | 0.487 | 0.0113 | Pyridine |

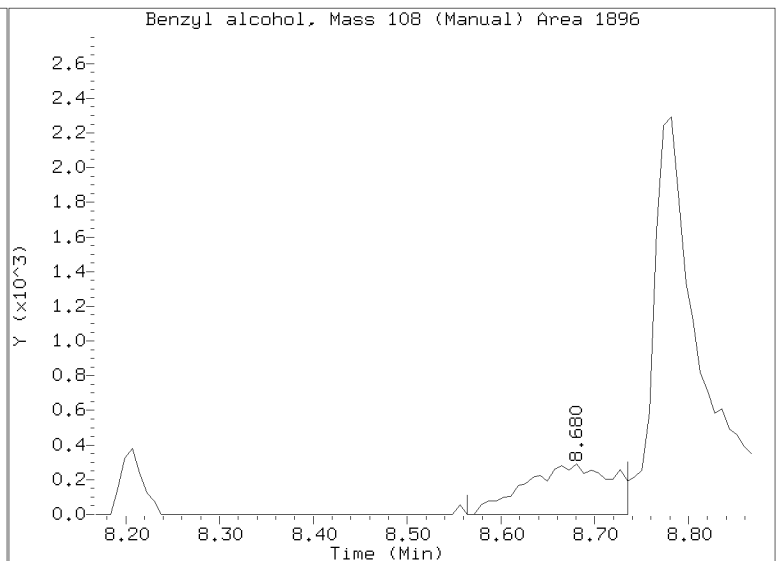
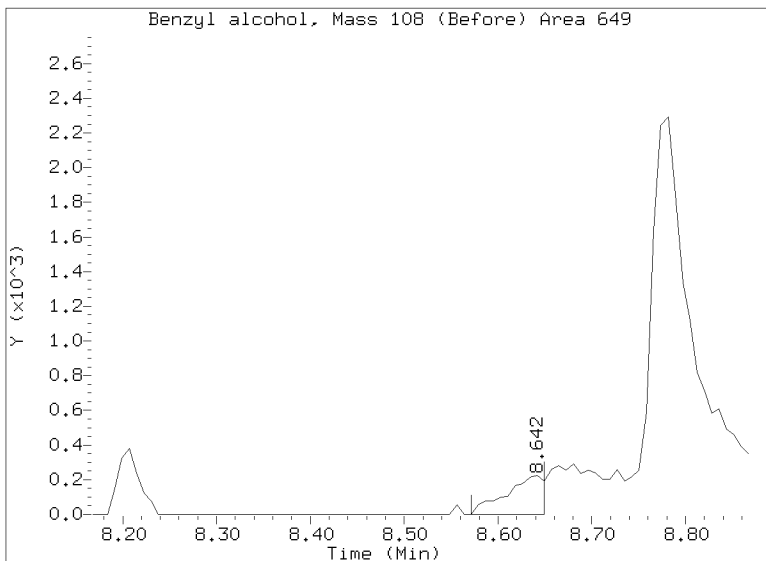
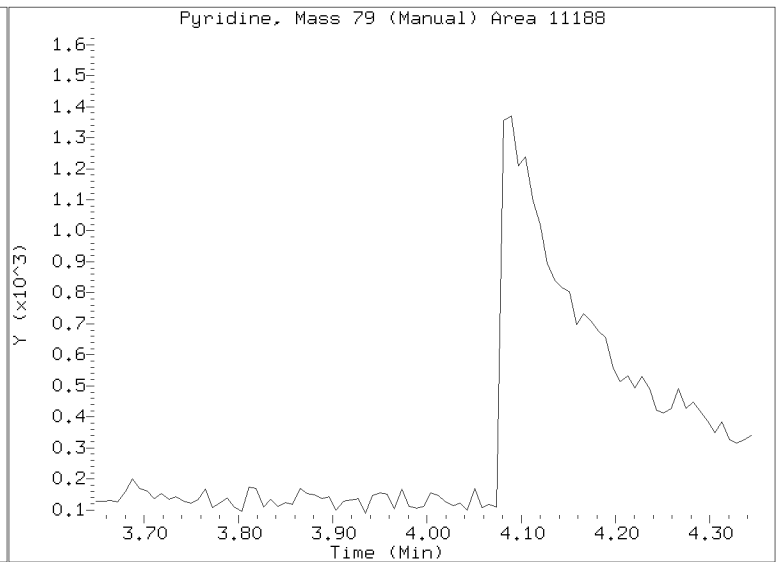
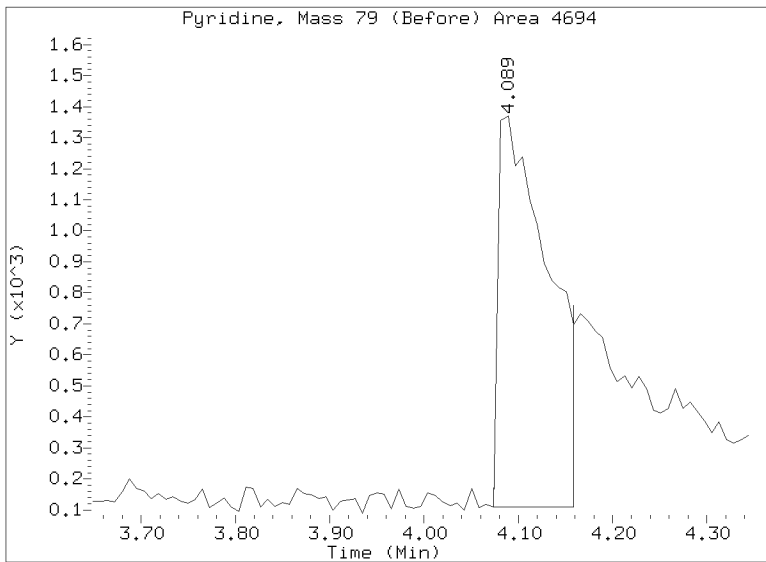
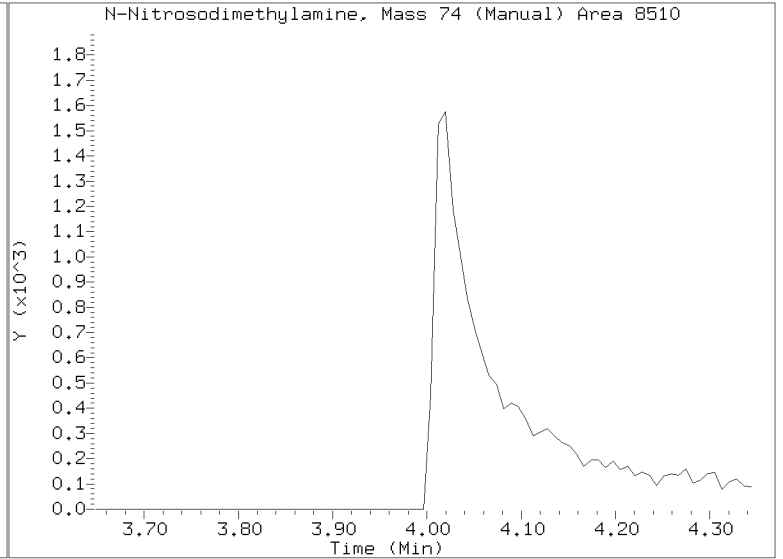
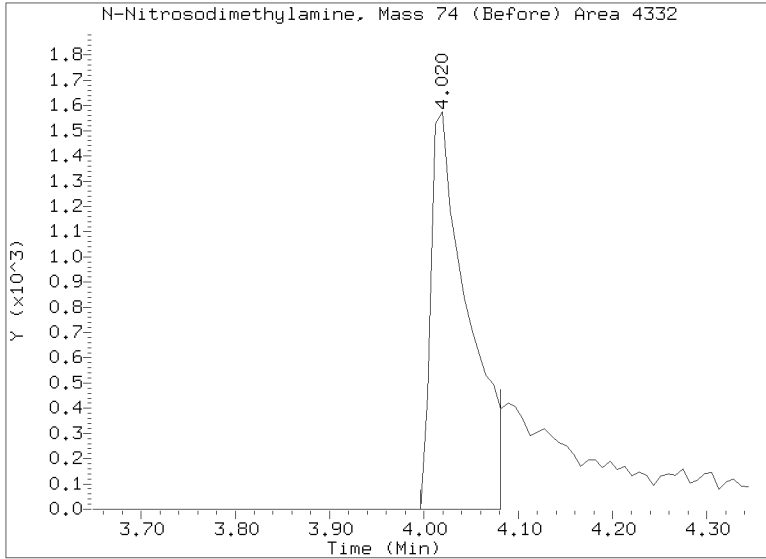
RRT check based on Ccal File: NT1423022848.D

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

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

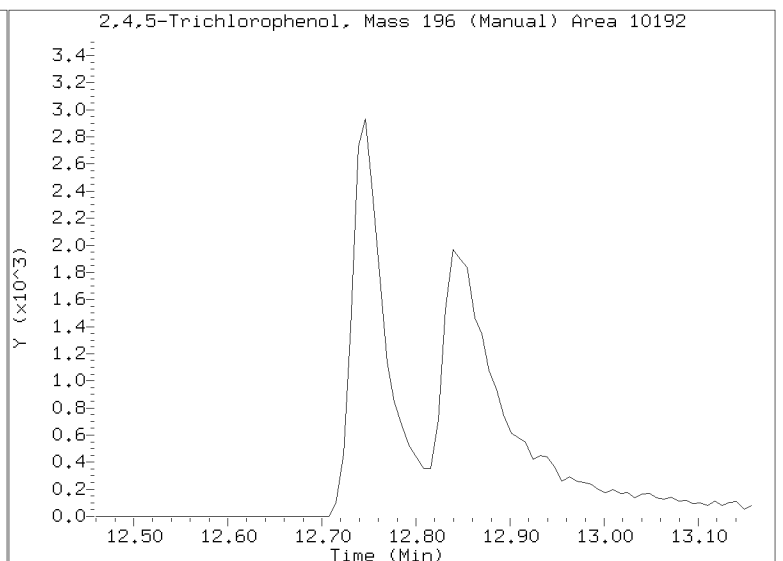
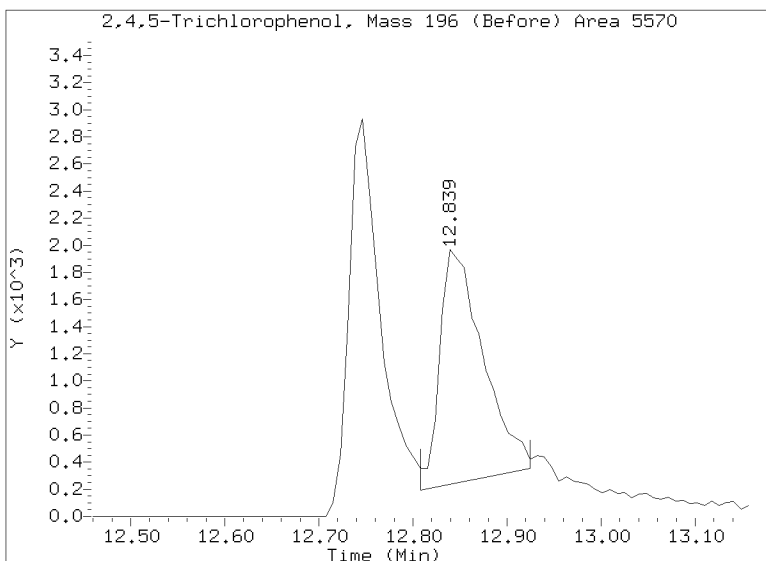
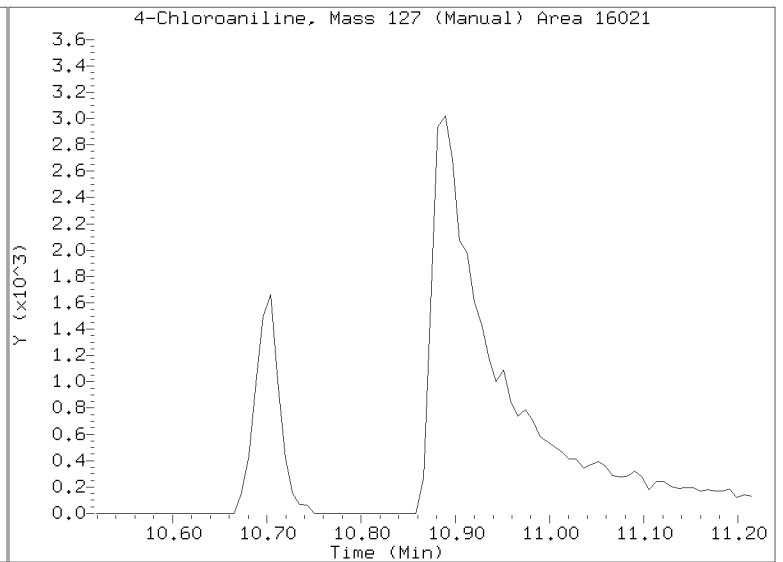
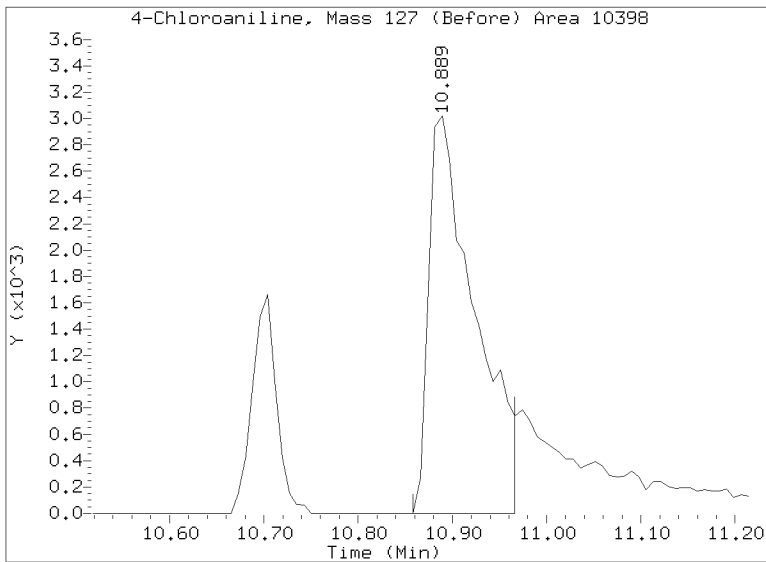
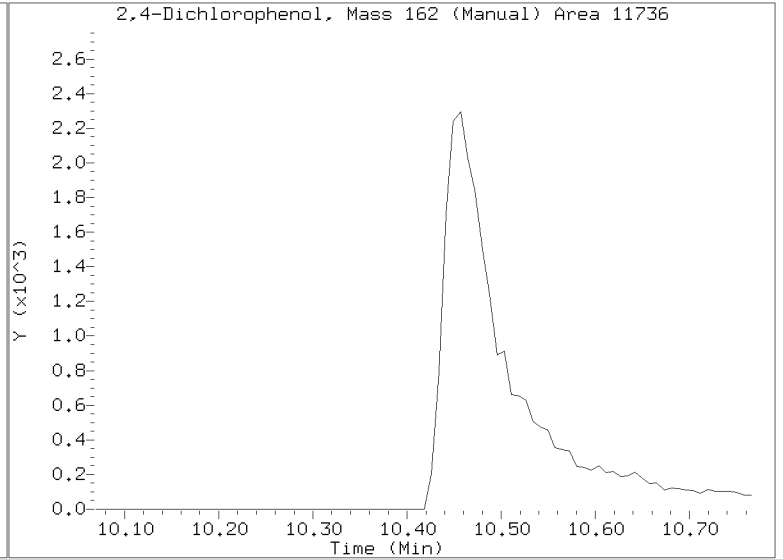
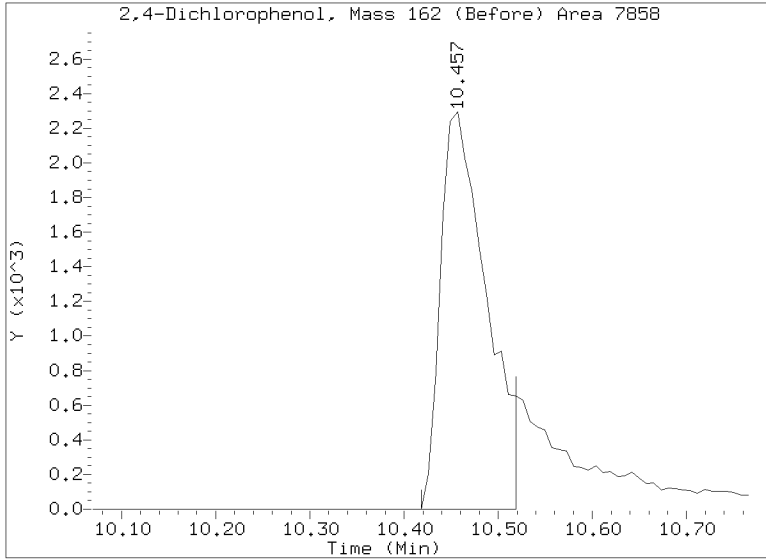
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230228.b/NT1423022850.D
Injection Date: 02-MAR-2023 07:04
Lab ID:SLB0374-LCV5 Client ID:
Report Date: 03/14/2023 08:43



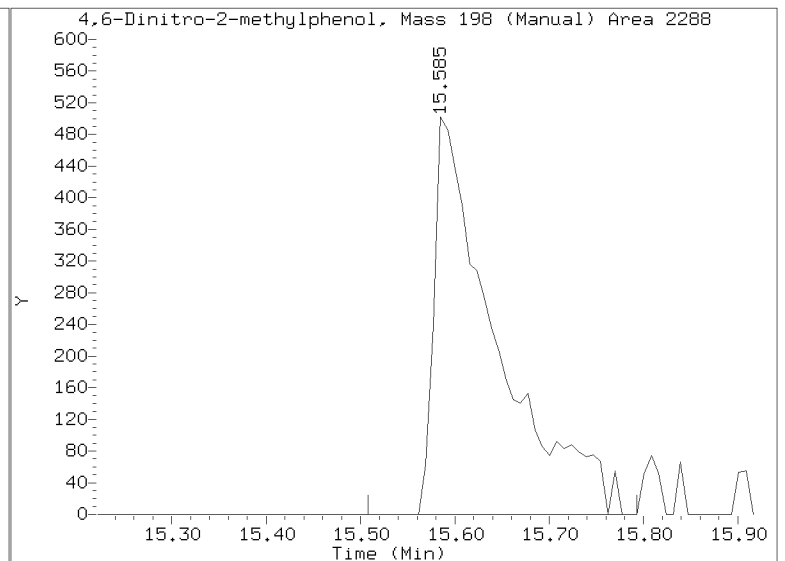
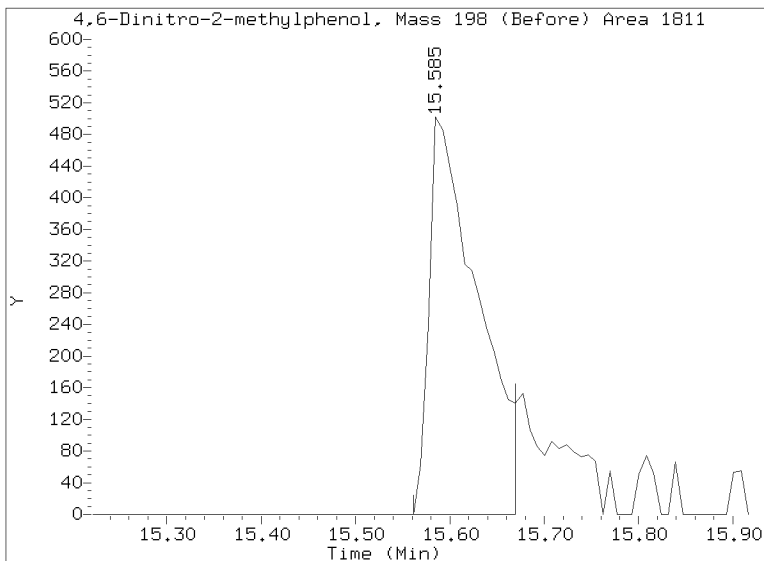
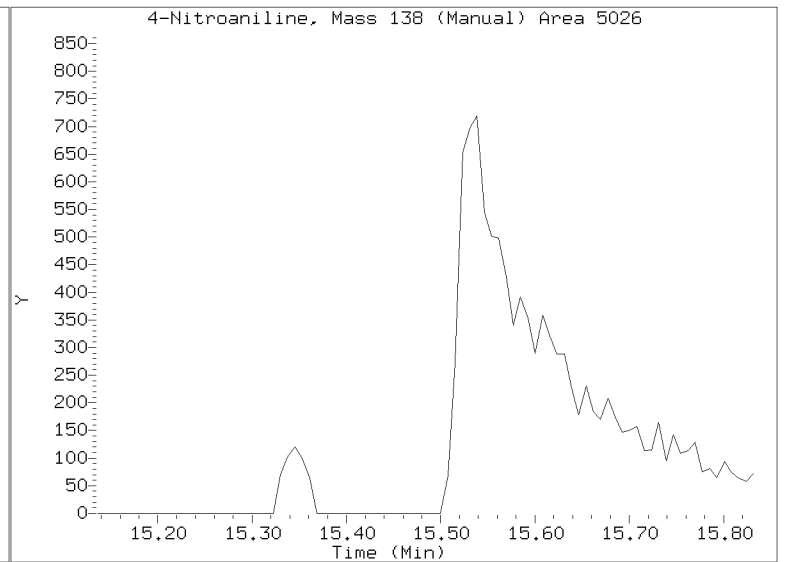
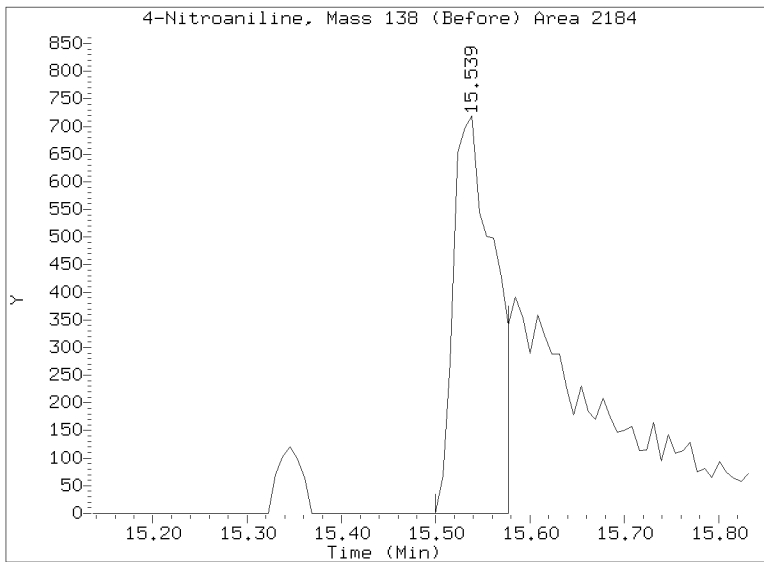
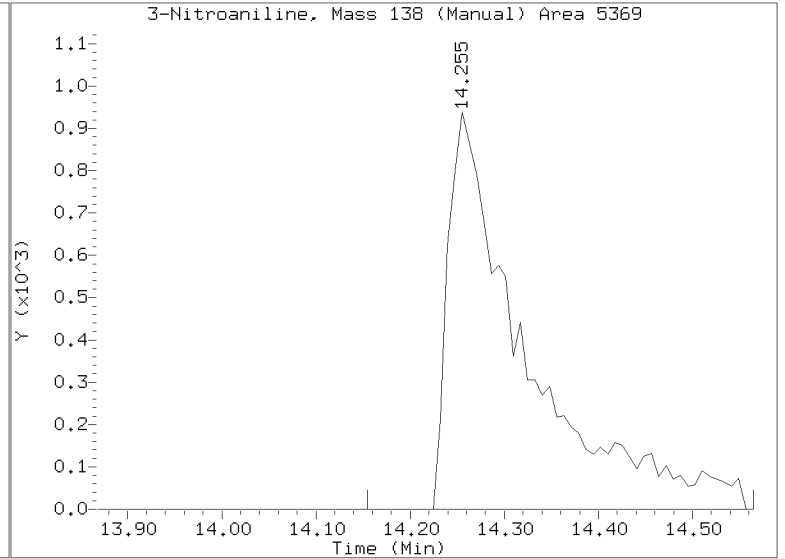
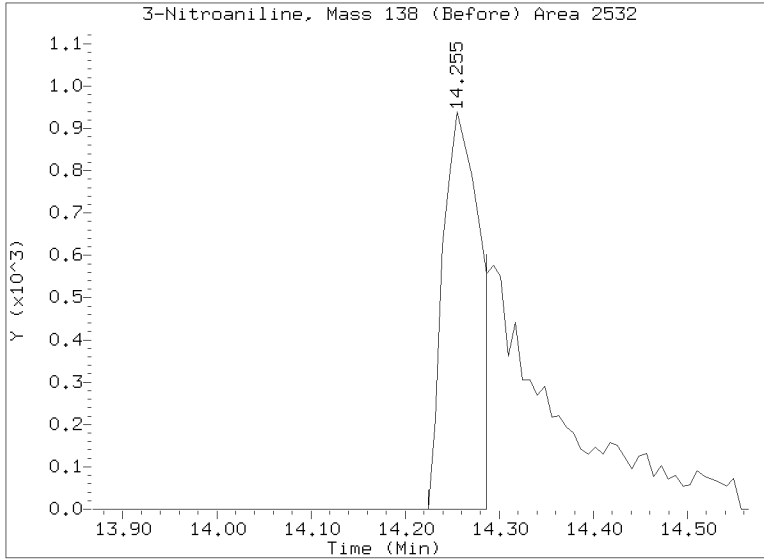
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230228.b/NT1423022850.D
Injection Date: 02-MAR-2023 07:04
Lab ID:SLB0374-LCV5 Client ID:
Report Date: 03/14/2023 08:43



Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230228.b/NT1423022850.D
Injection Date: 02-MAR-2023 07:04
Lab ID: SLB0374-LCV5 Client ID:
Report Date: 03/14/2023 08:43



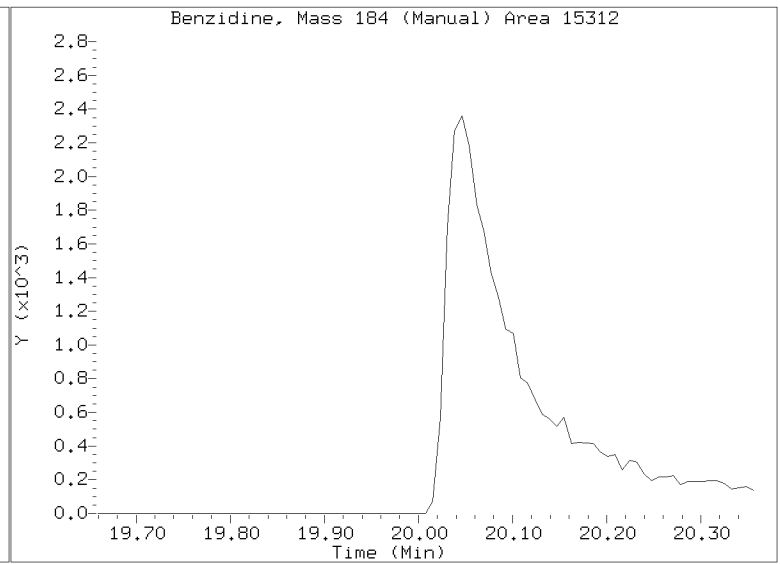
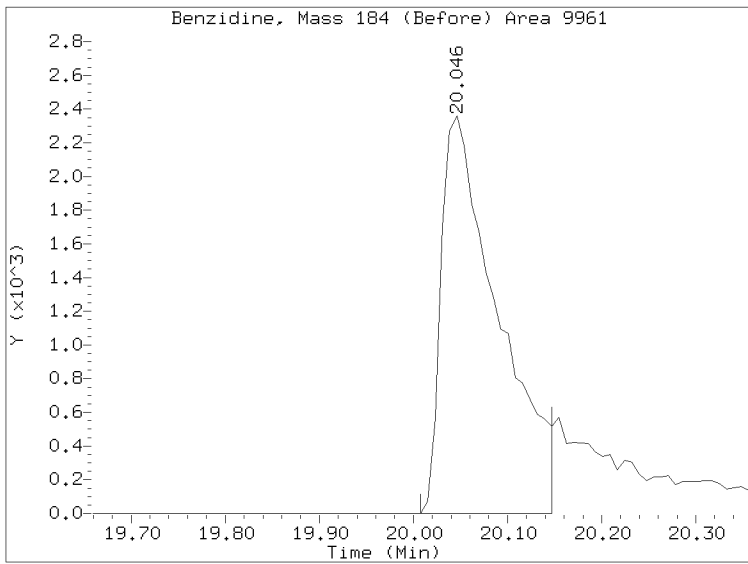
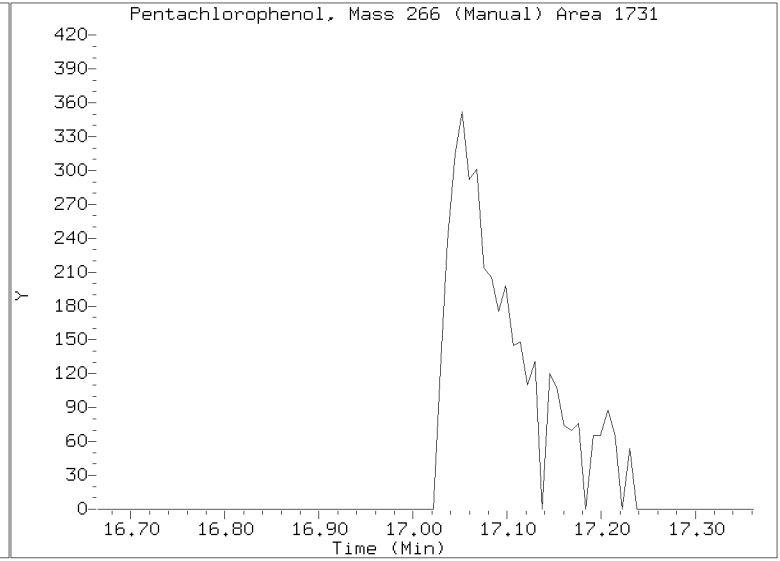
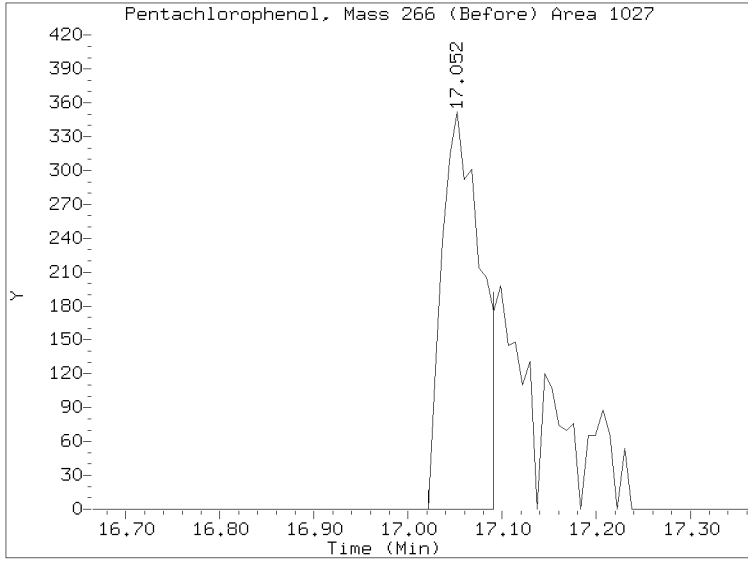
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230228.b/NT1423022850.D

Injection Date: 02-MAR-2023 07:04

Lab ID:SLB0374-LCV5 Client ID:

Report Date: 03/14/2023 08:43





**LOW-CONCENTRATION
CONTINUING CALIBRATION CHECK
EPA 8270E**

| | |
|--|-------------------------------------|
| Laboratory: <u>Analytical Resources, LLC</u> | SDG: <u>23A0180</u> |
| Client: <u>Anchor QEA, LLC</u> | Project: <u>AOC5 MR Phase 1</u> |
| Instrument ID: <u>NT14</u> | Calibration: <u>GC00033</u> |
| Lab File ID: <u>NT1423022851.D</u> | Calibration Date: <u>02/28/2023</u> |
| Sequence: <u>SLB0374</u> | Injection Date: <u>03/02/23</u> |
| Lab Sample ID: <u>SLB0374-LCV6</u> | Injection Time: <u>07:40</u> |
| Sequence Name: <u>ABN 0.5</u> | |

| COMPOUND | TYPE | CONC. (ug/mL) | | RESPONSE FACTOR (RRF) | | | % DRIFT/DIFF | |
|------------------------------|------|---------------|-------|-----------------------|-----------|-----|--------------|---------|
| | | STD | CCV | ICAL | CCV | MIN | CCV | LIMIT |
| Phenol | A | 0.50000 | 0.5 | 1.8373500 | 1.8337760 | | -0.2 | +/-50 |
| bis(2-chloroethyl) ether | A | 0.50000 | 0.5 | 1.5312550 | 1.4047530 | | 8.5 | +/-50 |
| 2-Chlorophenol | A | 0.50000 | 0.6 | 1.3533690 | 1.4922090 | | 10.3 | +/-50 |
| 1,3-Dichlorobenzene | A | 0.50000 | 0.5 | 1.4914740 | 1.5978320 | | 7.1 | +/-50 |
| 1,4-Dichlorobenzene | A | 0.50000 | 0.5 | 1.4740600 | 1.5697570 | | 6.5 | +/-50 |
| 1,2-Dichlorobenzene | A | 0.50000 | 0.5 | 1.4134490 | 1.4850290 | | 5.1 | +/-50 |
| Benzyl Alcohol | A | 0.50000 | 0.3 | 0.6439892 | 0.4448194 | | -44.5 | +/-50 |
| 2,2'-Oxybis(1-chloropropane) | A | 0.50000 | 0.5 | 0.3811859 | 0.4096360 | | 7.5 | +/-50 |
| 2-Methylphenol | A | 0.50000 | 0.5 | 1.1607310 | 1.1869750 | | 2.3 | +/-50 |
| Hexachloroethane | A | 0.50000 | 0.4 | 0.5535732 | 0.4317513 | | -22.0 | +/-50 |
| N-Nitroso-di-n-Propylamine | A | 0.50000 | 0.6 | 0.8837751 | 1.0829320 | | 22.5 | +/-50 |
| 4-Methylphenol | A | 0.50000 | 0.4 | 1.1353050 | 1.1111510 | | -17.8 | +/-50 |
| Nitrobenzene | A | 0.50000 | 0.5 | 0.3760061 | 0.4080835 | | 8.5 | +/-50 |
| Isophorone | A | 0.50000 | 0.5 | 0.4996273 | 0.5858380 | | -0.2 | +/-50 |
| 2-Nitrophenol | A | 0.50000 | 0.5 | 0.1467597 | 0.1824149 | | -6.3 | +/-50 |
| 2,4-Dimethylphenol | A | 1.0000 | 1.0 | 0.3427845 | 0.3540214 | | 3.3 | +/-50 |
| Bis(2-Chloroethoxy)methane | A | 0.50000 | 0.5 | 0.3780235 | 0.3791288 | | 0.3 | +/-50 |
| 2,4-Dichlorophenol | A | 1.0000 | 0.8 | 0.2946235 | 0.2691007 | | -22.4 | +/-50 |
| 1,2,4-Trichlorobenzene | A | 0.50000 | 0.5 | 0.3874001 | 0.3788908 | | -2.2 | +/-50 |
| Naphthalene | A | 0.50000 | 0.5 | 1.0669580 | 1.1301670 | | 5.9 | +/-50 |
| Benzoic acid | A | 2.0000 | 1.1 | 0.1358415 | 0.0738594 | | -45.6 | +/-50 |
| 4-Chloroaniline | A | 1.0000 | 0.9 | 0.4563565 | 0.3938937 | | -13.7 | +/-50 |
| Hexachlorobutadiene | A | 0.50000 | 0.4 | 0.2363916 | 0.2075818 | | -12.2 | +/-50 |
| 4-Chloro-3-Methylphenol | A | 1.0000 | 1.0 | 0.3085482 | 0.3055520 | | -1.0 | +/-50 |
| 2-Methylnaphthalene | A | 0.50000 | 0.5 | 0.7901196 | 0.7838012 | | -0.8 | +/-50 |
| Hexachlorocyclopentadiene | A | 1.0000 | 0.006 | 0.3443795 | 0.0025649 | | -99.4 | +/-50 * |
| 2,4,6-Trichlorophenol | A | 1.0000 | 0.9 | 0.3907367 | 0.3596869 | | -7.9 | +/-50 |
| 2,4,5-Trichlorophenol | A | 1.0000 | 0.9 | 0.4224702 | 0.3939681 | | -6.7 | +/-50 |
| 2-Chloronaphthalene | A | 0.50000 | 0.5 | 1.2480280 | 1.2998890 | | 4.2 | +/-50 |
| 2-Nitroaniline | A | 1.0000 | 1.1 | 0.3254949 | 0.3564675 | | 9.5 | +/-50 |
| Acenaphthylene | A | 0.50000 | 0.6 | 1.8312950 | 2.0733560 | | 13.2 | +/-50 |
| Dimethylphthalate | A | 0.50000 | 0.6 | 1.2581570 | 1.3999730 | | 11.3 | +/-50 |
| 2,6-Dinitrotoluene | A | 1.0000 | 1.0 | 0.2948315 | 0.3047981 | | 3.4 | +/-50 |
| Acenaphthene | A | 0.50000 | 0.5 | 1.1724930 | 1.2427900 | | 6.0 | +/-50 |

* Values outside of QC limits



LOW-CONCENTRATION
CONTINUING CALIBRATION CHECK
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: NT14

Calibration: GC00033

Lab File ID: NT1423022851.D

Calibration Date: 02/28/2023

Sequence: SLB0374

Injection Date: 03/02/23

Lab Sample ID: SLB0374-LCV6

Injection Time: 07:40

Sequence Name: ABN 0.5

| COMPOUND | TYPE | CONC. (ug/mL) | | RESPONSE FACTOR (RRF) | | | % DRIFT/DIFF | |
|----------------------------|------|---------------|-------|-----------------------|-----------|-----|--------------|---------|
| | | STD | CCV | ICAL | CCV | MIN | CCV | LIMIT |
| 3-Nitroaniline | A | 1.0000 | 0.8 | 0.3021810 | 0.2348384 | | -22.3 | +/-50 |
| 2,4-Dinitrophenol | A | 2.0000 | 0.4 | 0.1437811 | 0.0338566 | | -81.8 | +/-50 * |
| Dibenzofuran | A | 0.50000 | 0.5 | 1.8656210 | 1.8775390 | | 0.6 | +/-50 |
| 4-Nitrophenol | A | 1.0000 | 0.8 | 0.1323756 | 0.1239110 | | -17.1 | +/-50 |
| 2,4-Dinitrotoluene | A | 1.0000 | 0.9 | 0.4244424 | 0.3834078 | | -9.7 | +/-50 |
| Fluorene | A | 0.50000 | 0.5 | 1.5719010 | 1.7056030 | | 8.5 | +/-50 |
| 4-Chlorophenylphenyl ether | A | 0.50000 | 0.5 | 0.8363665 | 0.8377836 | | 0.2 | +/-50 |
| Diethyl phthalate | A | 0.50000 | 0.6 | 1.1765440 | 1.3235570 | | 12.5 | +/-50 |
| 4-Nitroaniline | A | 1.0000 | 0.7 | 0.2995450 | 0.2208641 | | -26.3 | +/-50 |
| 4,6-Dinitro-2-methylphenol | A | 2.0000 | 0.7 | 0.0975169 | 0.0452423 | | -66.0 | +/-50 * |
| N-Nitrosodiphenylamine | A | 0.50000 | 0.6 | 0.5026629 | 0.5697412 | | 13.3 | +/-50 |
| 4-Bromophenyl phenyl ether | A | 0.50000 | 0.5 | 0.2209900 | 0.2235454 | | 1.2 | +/-50 |
| Hexachlorobenzene | A | 0.50000 | 0.5 | 0.2429692 | 0.2511384 | | 3.4 | +/-50 |
| Pentachlorophenol | A | 1.0000 | 0.6 | 0.0938263 | 0.0632808 | | -44.7 | +/-50 |
| Phenanthrene | A | 0.50000 | 0.5 | 1.0640870 | 1.1010310 | | 3.5 | +/-50 |
| Anthracene | A | 0.50000 | 0.5 | 1.0059580 | 1.0597000 | | 5.3 | +/-50 |
| Carbazole | A | 0.50000 | 0.5 | 0.8816605 | 0.8830512 | | 0.2 | +/-50 |
| Di-n-Butylphthalate | A | 0.50000 | 0.5 | 0.9469101 | 1.1709480 | | 3.0 | +/-50 |
| Fluoranthene | A | 0.50000 | 0.5 | 1.5175930 | 1.4144580 | | -6.8 | +/-50 |
| Pyrene | A | 0.50000 | 0.5 | 1.6000330 | 1.4916770 | | -6.8 | +/-50 |
| Butylbenzylphthalate | A | 0.50000 | 0.5 | 0.4562763 | 0.5834320 | | 3.1 | +/-50 |
| Benzo(a)anthracene | A | 0.50000 | 0.5 | 1.3399020 | 1.4721900 | | 9.9 | +/-50 |
| 3,3'-Dichlorobenzidine | A | 1.5000 | 1.8 | 0.3826468 | 0.4682657 | | 22.4 | +/-50 |
| Chrysene | A | 0.50000 | 0.5 | 1.2879040 | 1.3863210 | | 7.6 | +/-50 |
| bis(2-Ethylhexyl)phthalate | A | 0.50000 | 0.5 | 0.5161185 | 0.5544285 | | -9.2 | +/-50 |
| Di-n-Octylphthalate | A | 0.50000 | 0.5 | 1.0531830 | 1.0547270 | | 0.1 | +/-50 |
| Benzofluoranthenes, Total | A | 1.0000 | 1.3 | 1.2927770 | 1.6366130 | | 26.6 | +/-50 |
| Benzo(a)pyrene | A | 0.50000 | 0.5 | 1.1338150 | 1.2274190 | | 8.3 | +/-50 |
| Indeno(1,2,3-cd)pyrene | A | 0.50000 | 0.2 | 1.4272450 | 0.6517237 | | -54.3 | +/-50 * |
| Dibenzo(a,h)anthracene | A | 0.50000 | 0.3 | 1.2122070 | 0.6063056 | | -50.0 | +/-50 |
| Benzo(g,h,i)perylene | A | 0.50000 | 0.2 | 1.2448130 | 0.4543474 | | -63.5 | +/-50 * |
| 1-Methylnaphthalene | A | 0.50000 | 0.5 | 0.7274101 | 0.7111763 | | -2.2 | +/-50 |
| 2-Fluorophenol | A | 0.75000 | 0.695 | 1.0846110 | 1.0044760 | | -7.4 | +/-50 |
| Phenol-d5 | A | 0.75000 | 0.802 | 1.5399100 | 1.6462030 | | 6.9 | +/-50 |

* Values outside of QC limits



**LOW-CONCENTRATION
CONTINUING CALIBRATION CHECK
EPA 8270E**

| | | | |
|----------------|----------------------------------|-------------------|------------------------|
| Laboratory: | <u>Analytical Resources, LLC</u> | SDG: | <u>23A0180</u> |
| Client: | <u>Anchor QEA, LLC</u> | Project: | <u>AOC5 MR Phase 1</u> |
| Instrument ID: | <u>NT14</u> | Calibration: | <u>GC00033</u> |
| Lab File ID: | <u>NT1423022851.D</u> | Calibration Date: | <u>02/28/2023</u> |
| Sequence: | <u>SLB0374</u> | Injection Date: | <u>03/02/23</u> |
| Lab Sample ID: | <u>SLB0374-LCV6</u> | Injection Time: | <u>07:40</u> |
| Sequence Name: | <u>ABN 0.5</u> | | |

| COMPOUND | TYPE | CONC. (ug/mL) | | RESPONSE FACTOR (RRF) | | | % DRIFT/DIFF | |
|------------------------|------|---------------|-------|-----------------------|-----------|-----|--------------|-------|
| | | STD | CCV | ICAL | CCV | MIN | CCV | LIMIT |
| 2-Chlorophenol-d4 | A | 0.75000 | 0.851 | 1.3093910 | 1.4849810 | | 13.4 | +/-50 |
| 1,2-Dichlorobenzene-d4 | A | 0.50000 | 0.509 | 0.9857584 | 1.0039490 | | 1.8 | +/-50 |
| Nitrobenzene-d5 | A | 0.50000 | 0.552 | 0.3912861 | 0.4321596 | | 10.4 | +/-50 |
| 2-Fluorobiphenyl | A | 0.50000 | 0.524 | 1.5568580 | 1.6327600 | | 4.9 | +/-50 |
| 2,4,6-Tribromophenol | A | 0.75000 | 0.580 | 0.1850894 | 0.1664175 | | -22.6 | +/-50 |
| p-Terphenyl-d14 | A | 0.50000 | 0.462 | 1.2319340 | 1.1381390 | | -7.6 | +/-50 |

* Values outside of QC limits

* Values outside of QC limits

Data File: \\target\share\chem3\nt14,1\20230228,16\NT1423022851.D

Date: 02-MAR-2023 07:40

Client ID:

Sample Info: SLB0374-LCW6

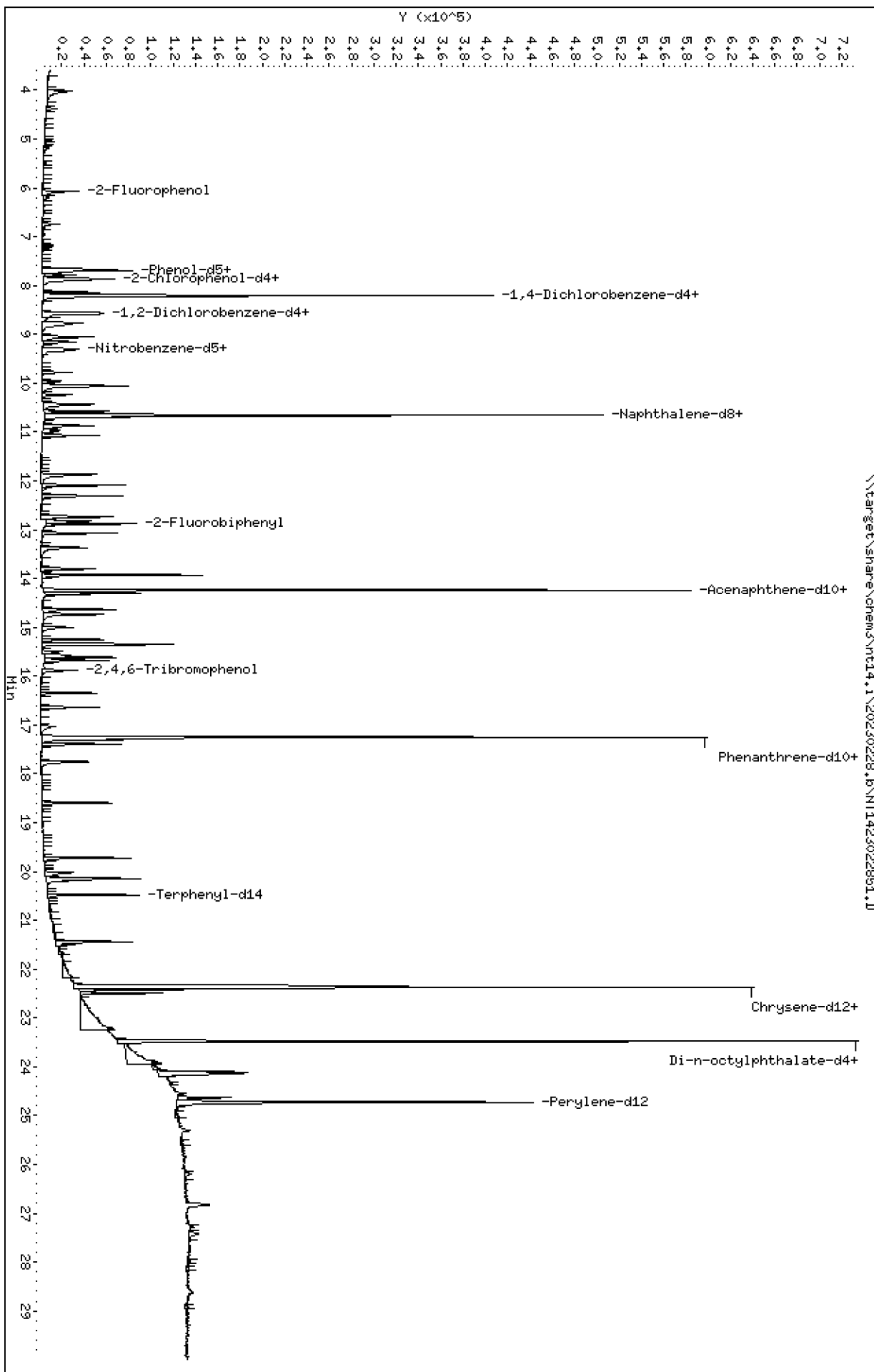
Column phase: ZB-5msi

Instrument: nt14,1

Operator: JGR

Column diameter: 0.25

Page 1



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

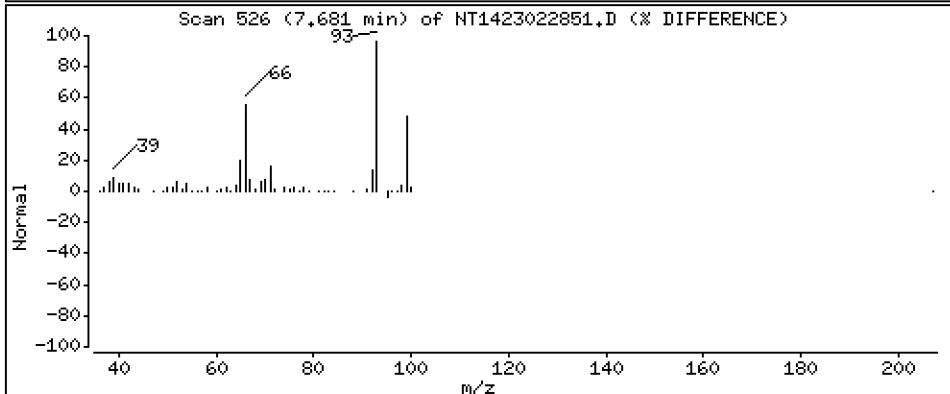
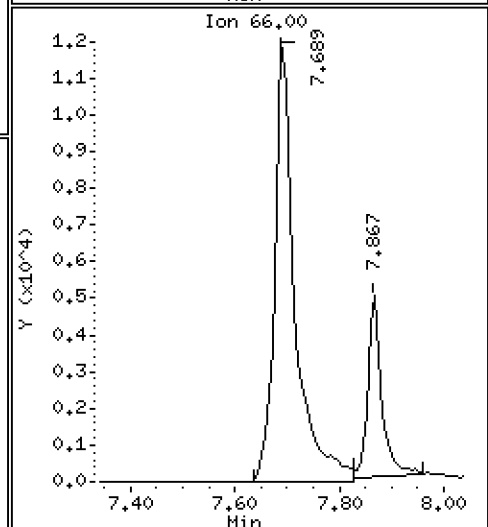
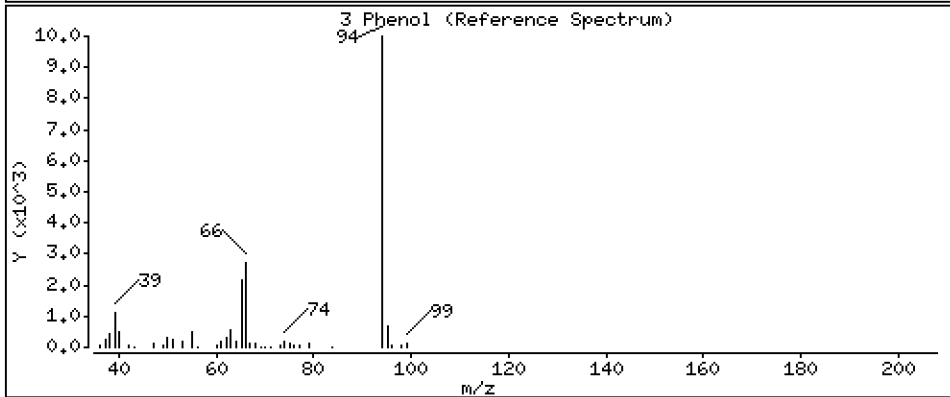
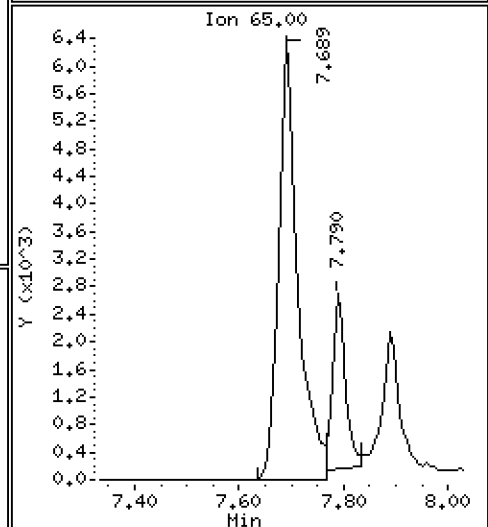
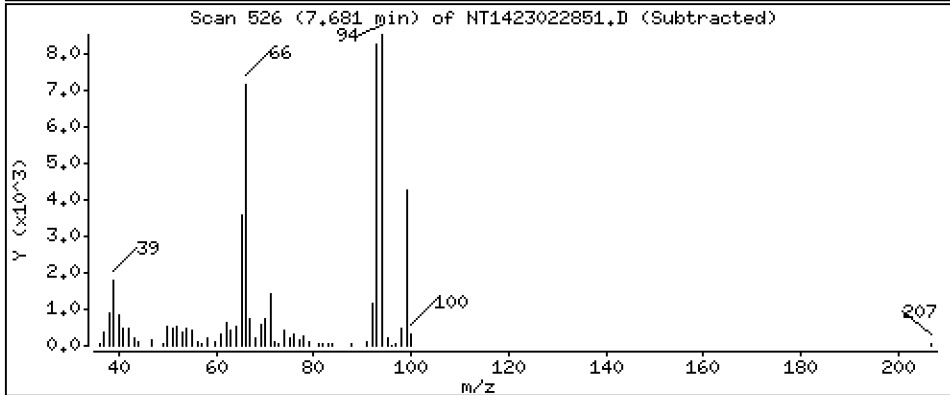
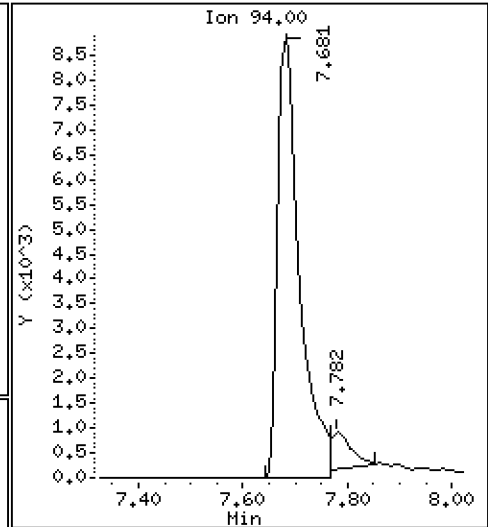
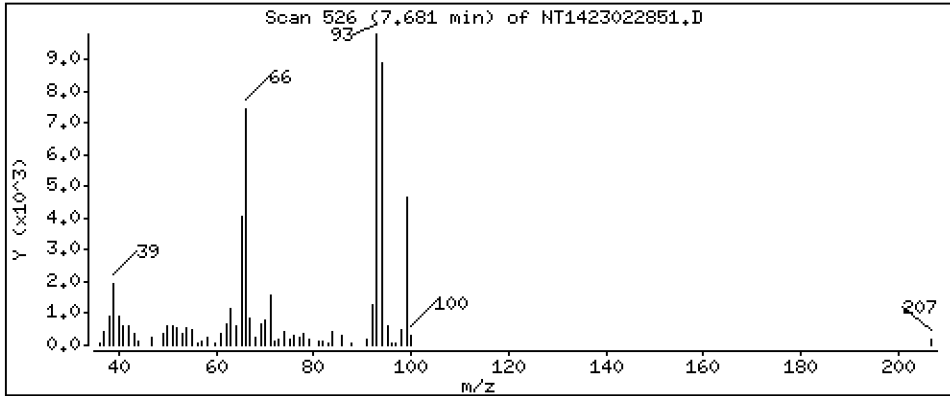
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

3 Phenol

Concentration: 0.4990 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

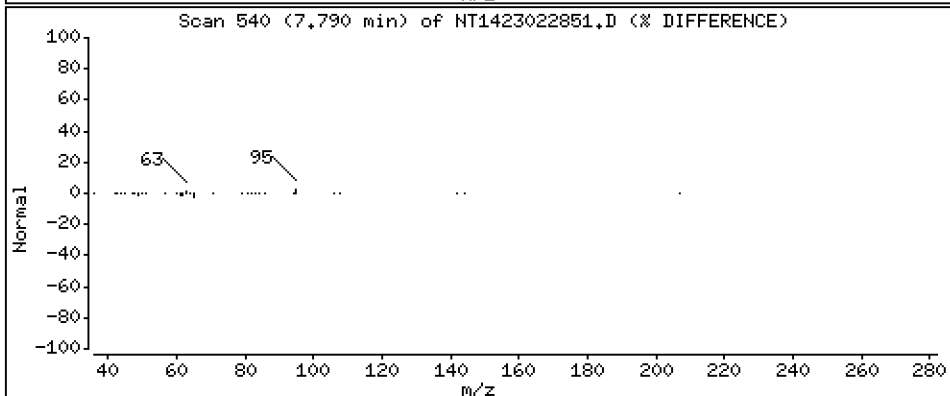
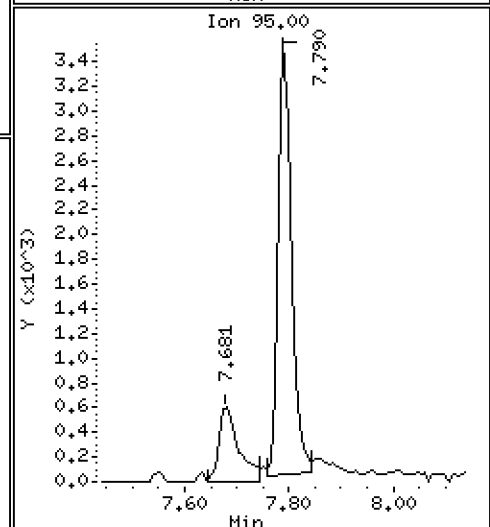
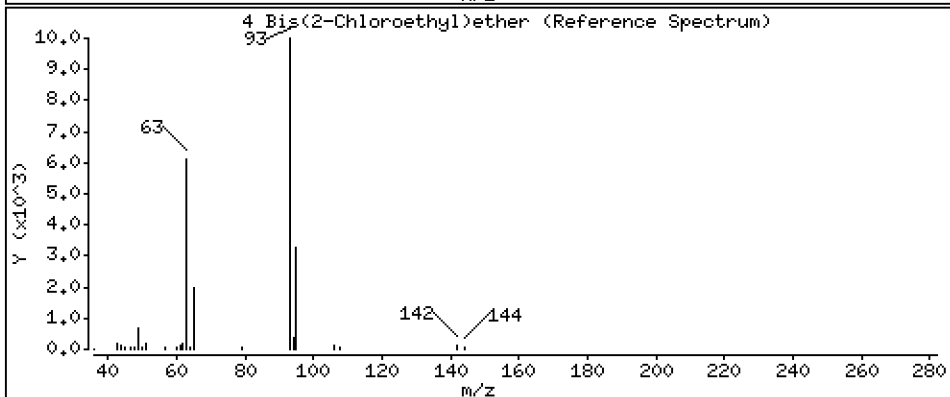
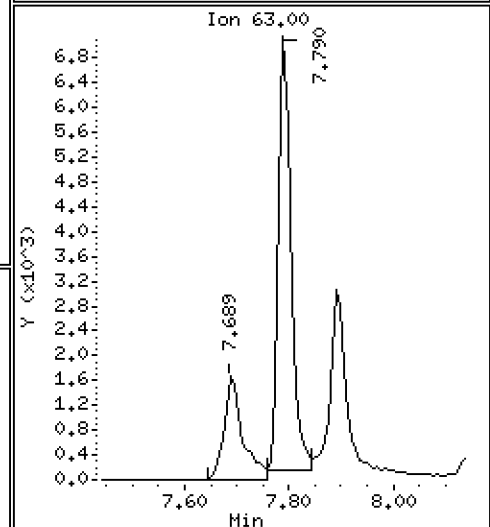
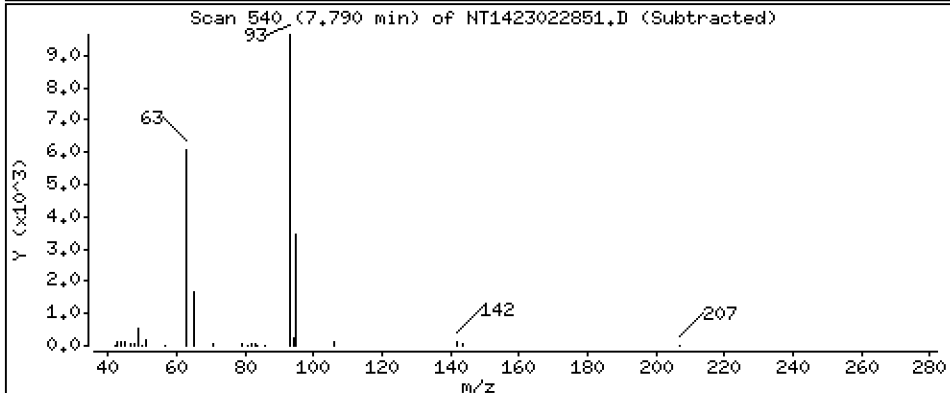
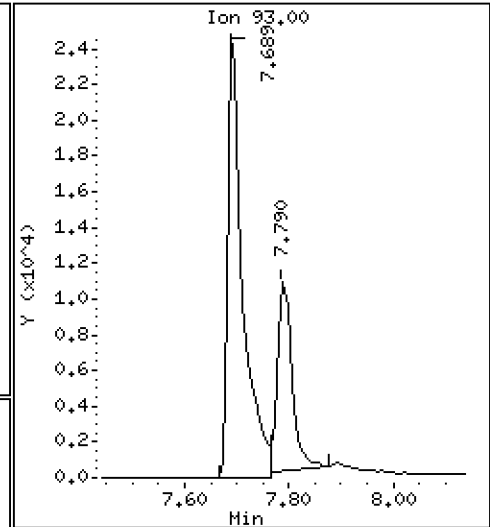
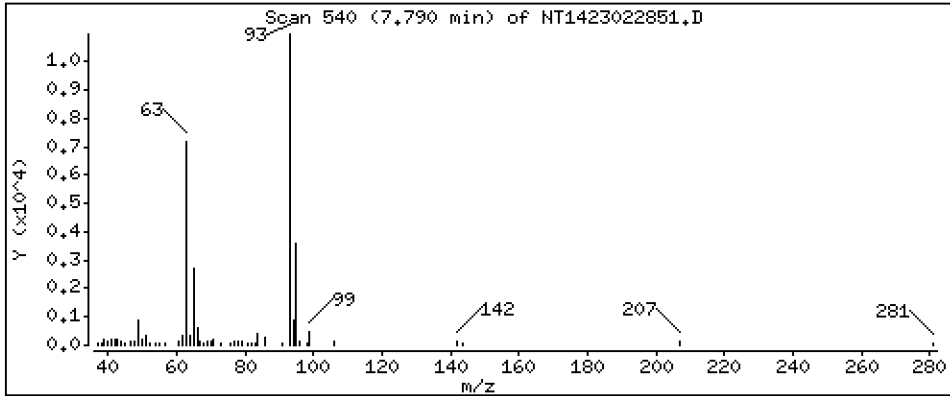
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

4 Bis(2-Chloroethyl)ether

Concentration: 0,5427 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

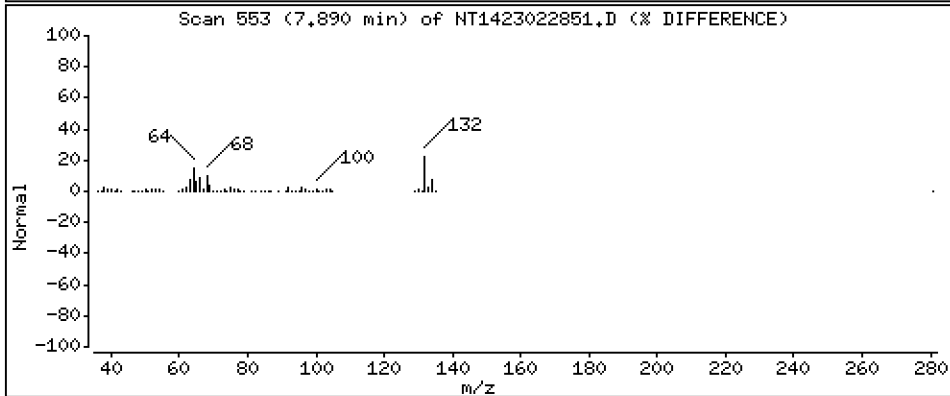
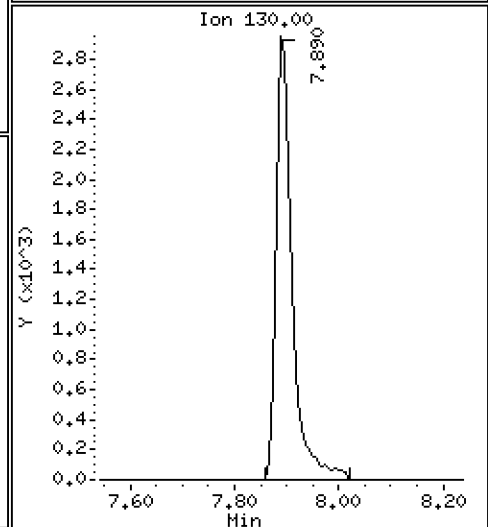
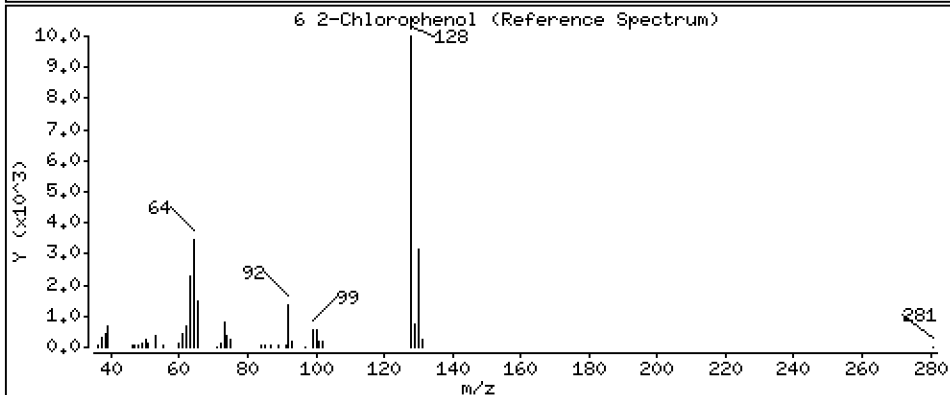
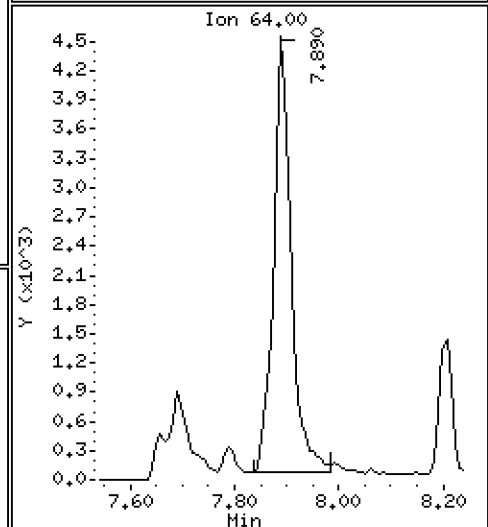
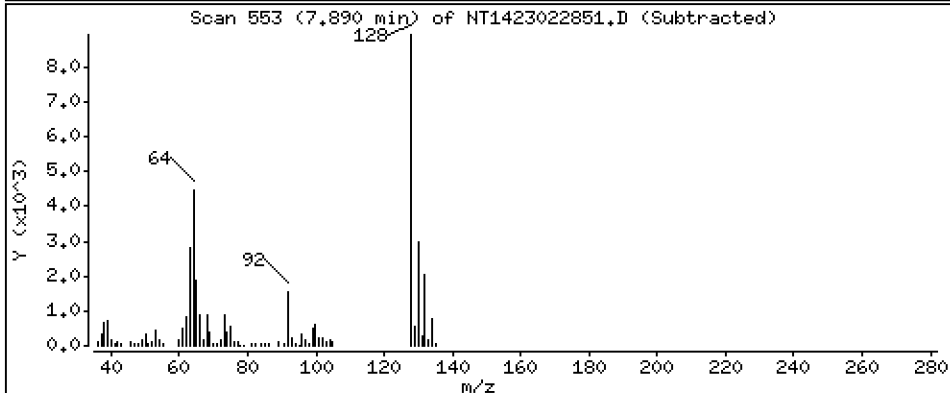
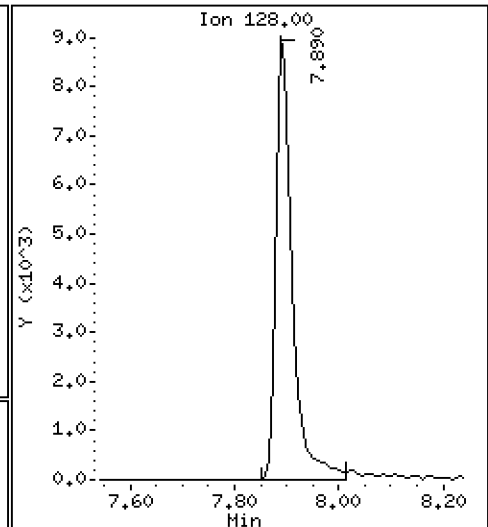
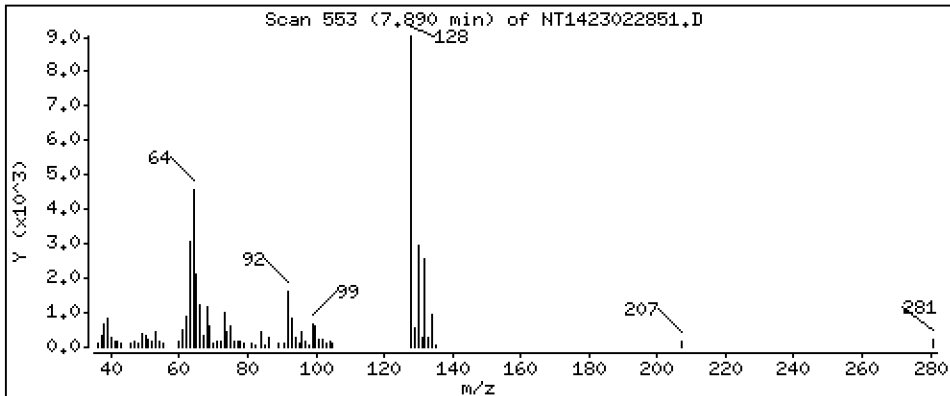
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 0,5513 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

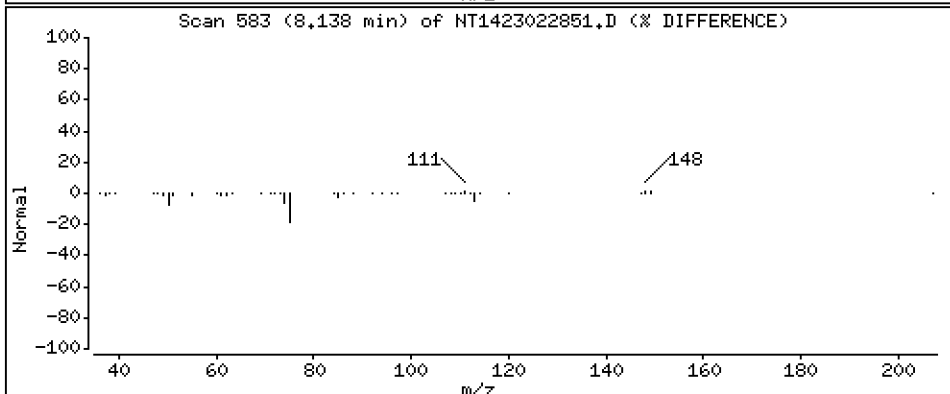
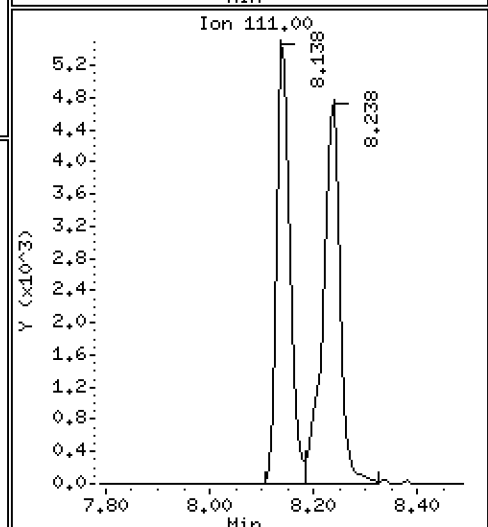
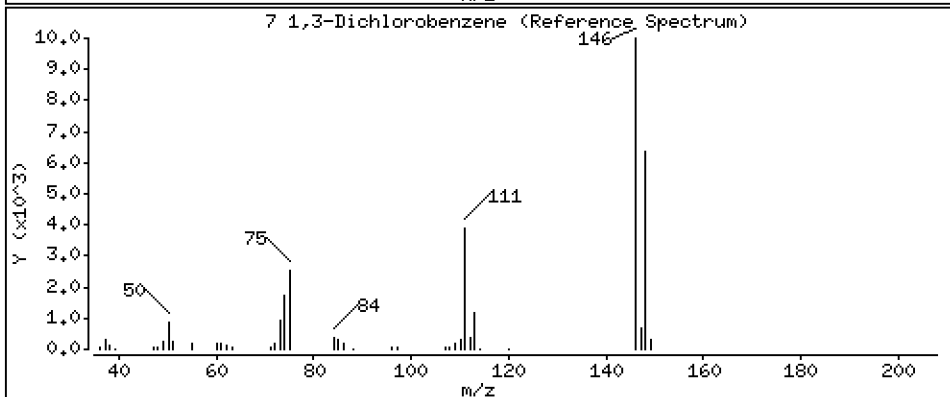
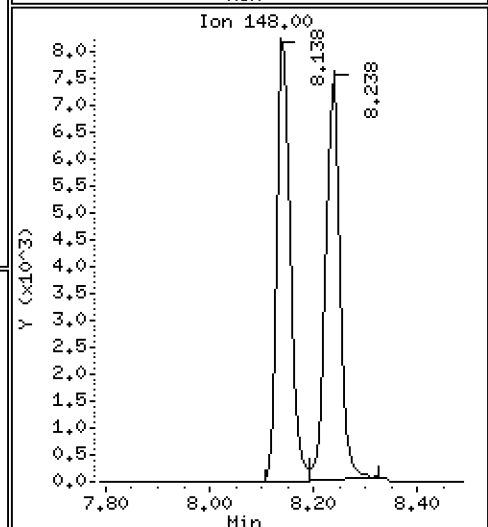
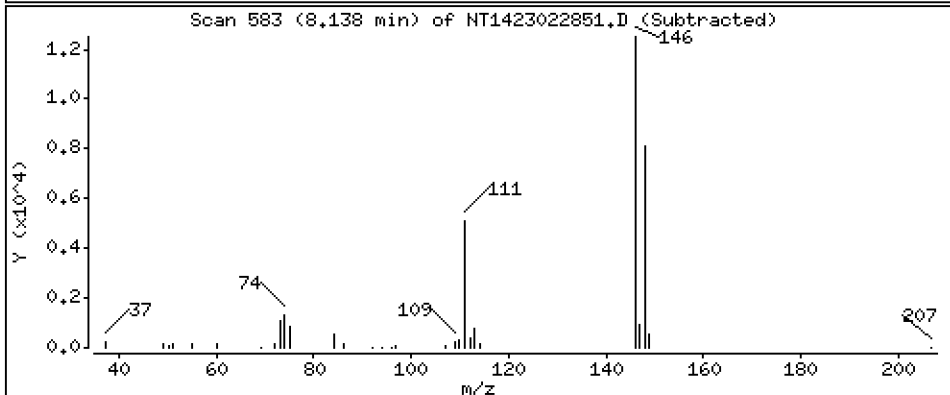
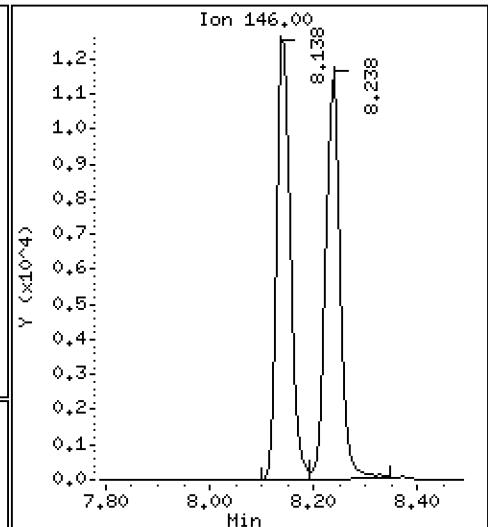
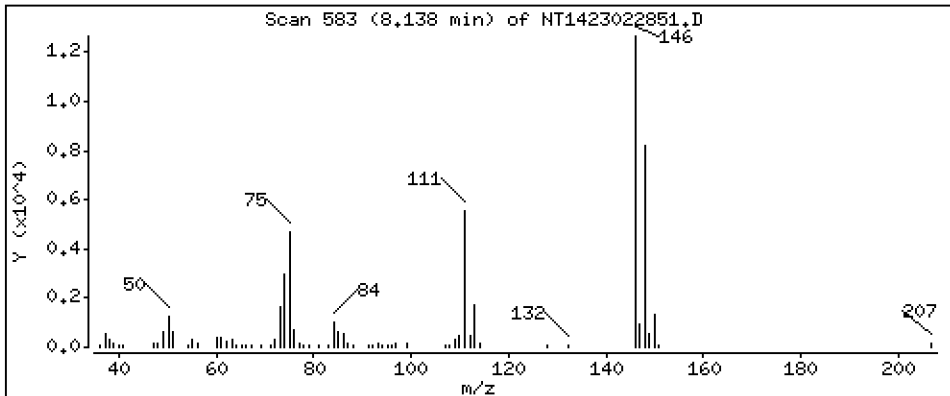
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

7 1,3-Dichlorobenzene

Concentration: 0.5357 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

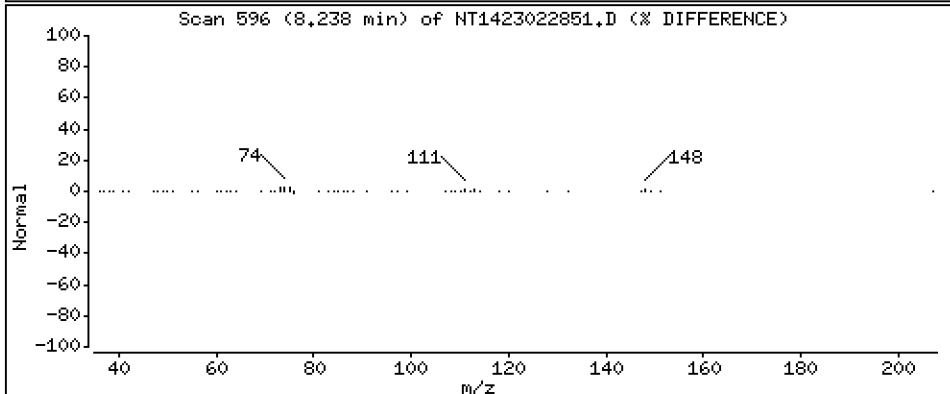
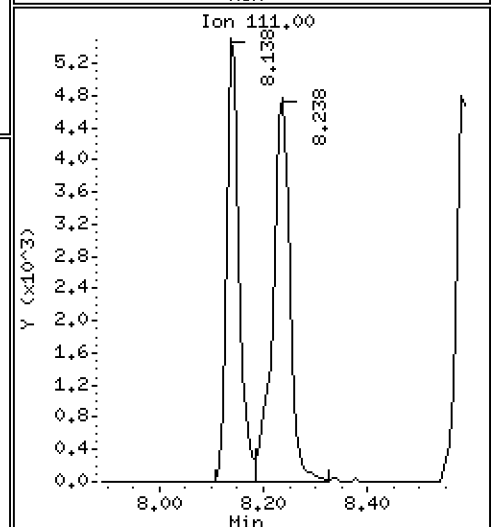
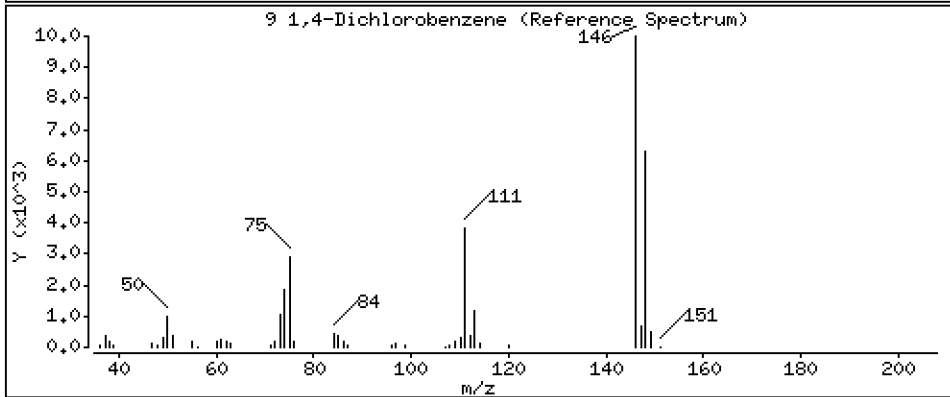
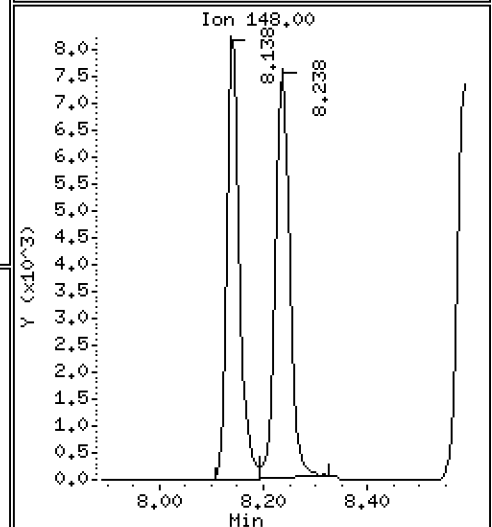
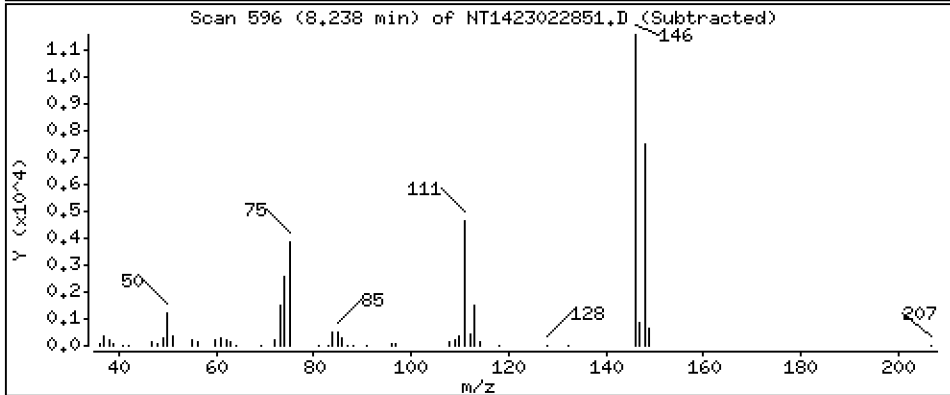
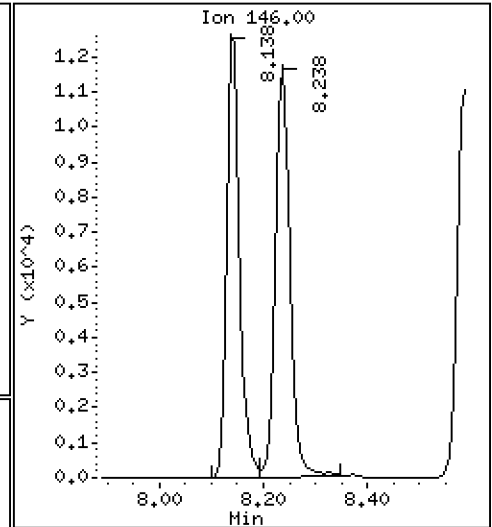
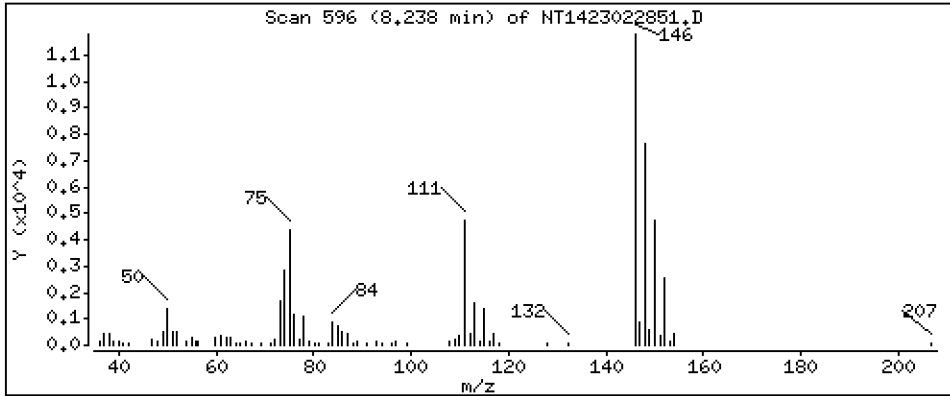
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

9 1,4-Dichlorobenzene

Concentration: 0.5325 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

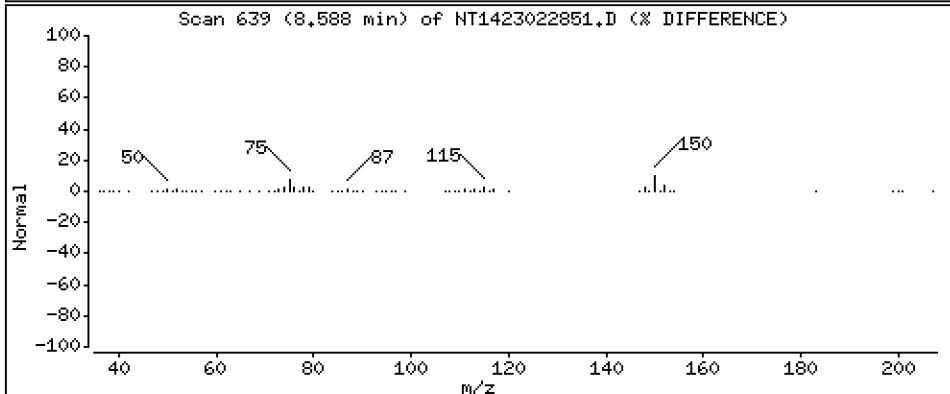
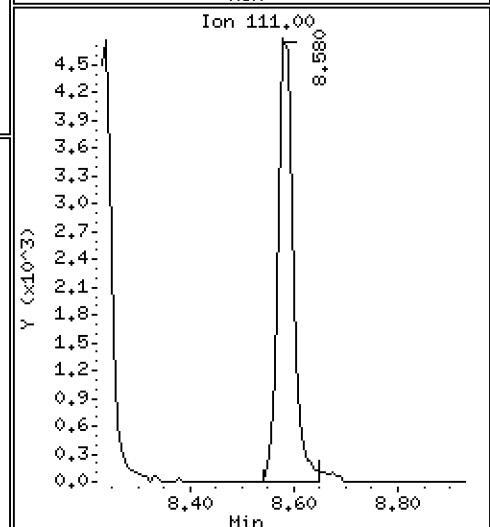
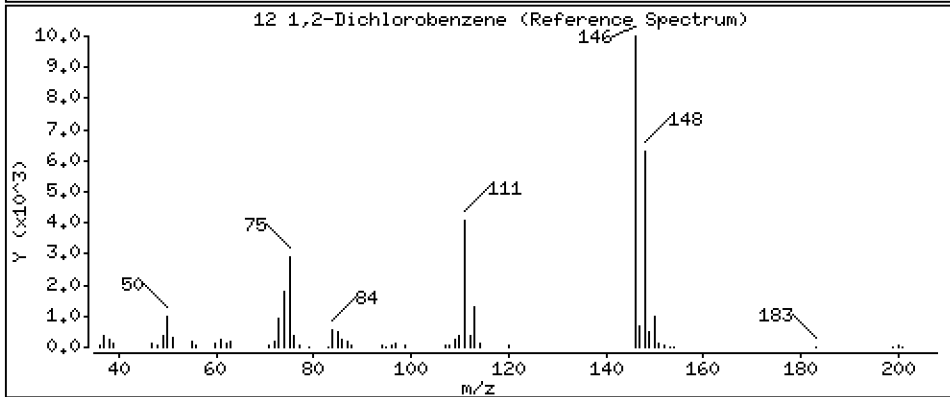
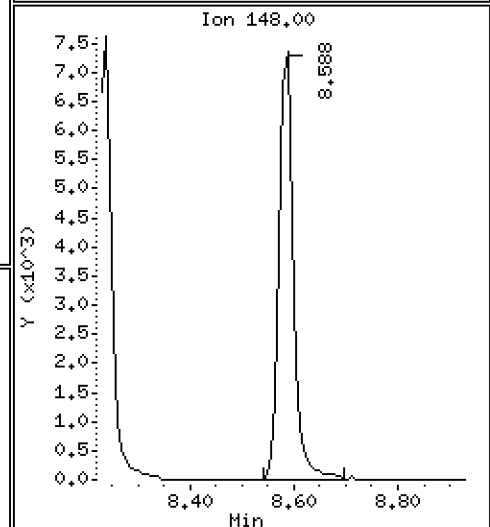
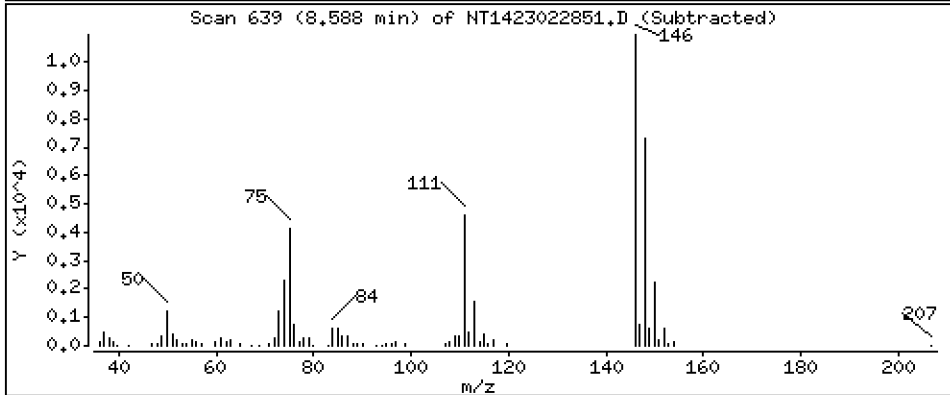
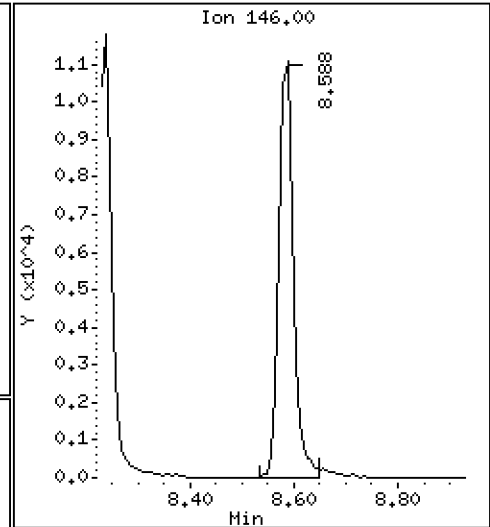
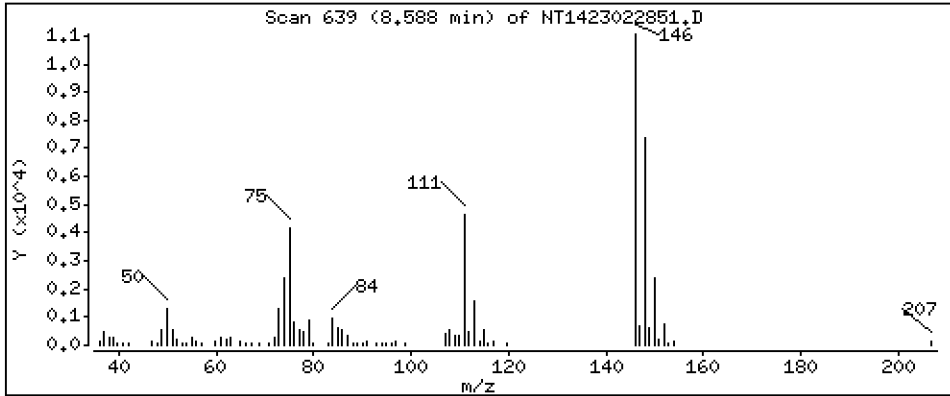
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

12 1,2-Dichlorobenzene

Concentration: 0.5253 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

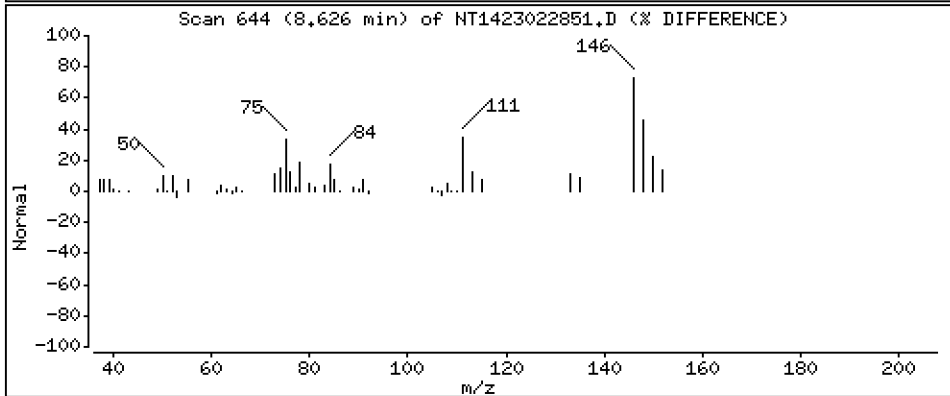
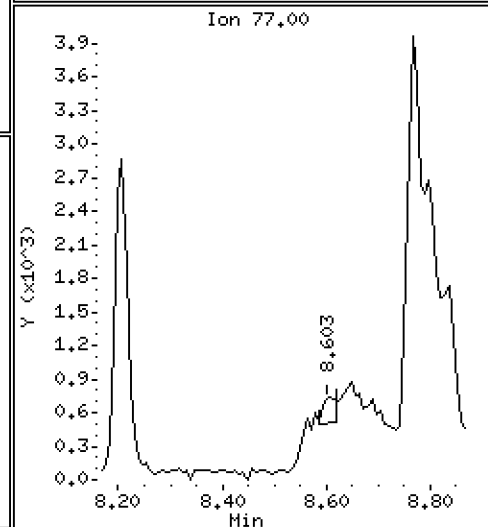
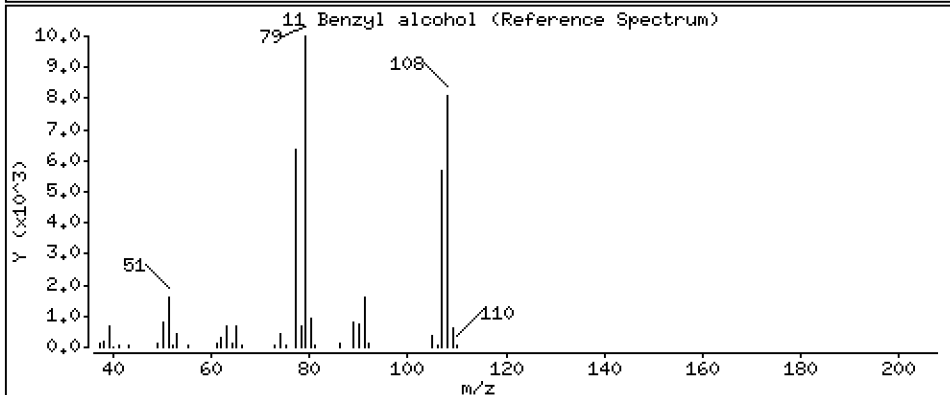
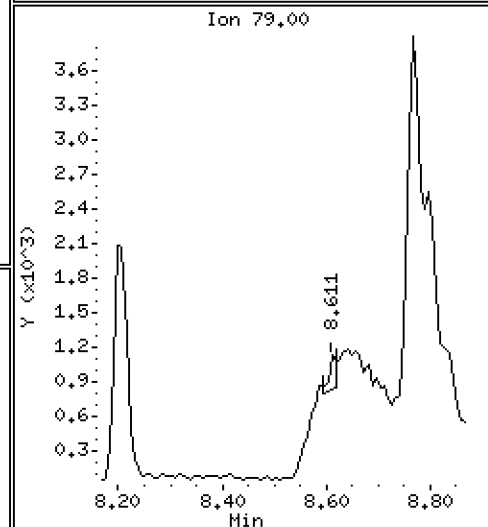
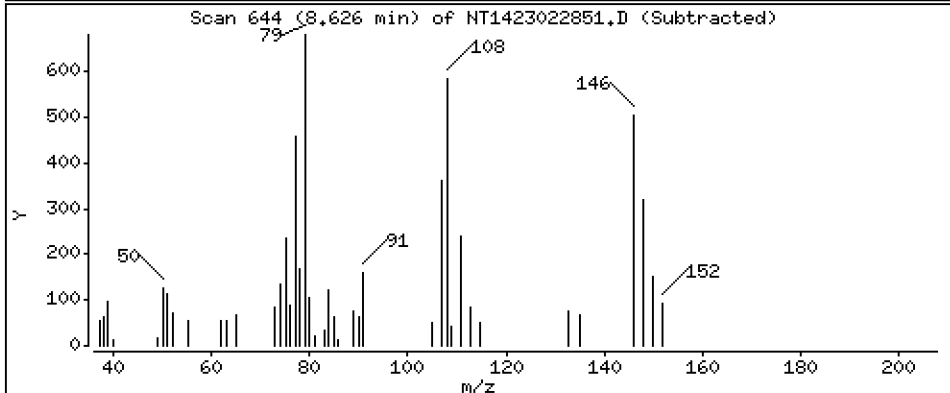
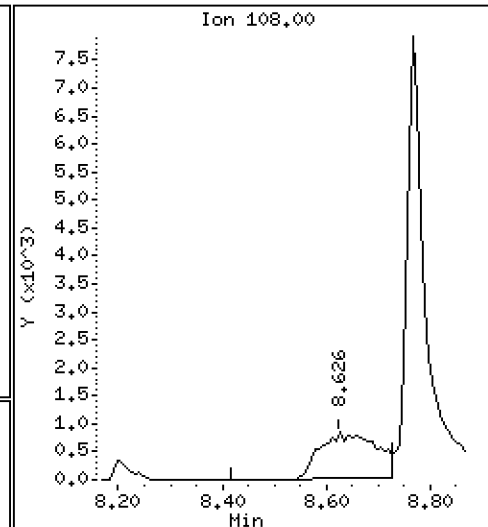
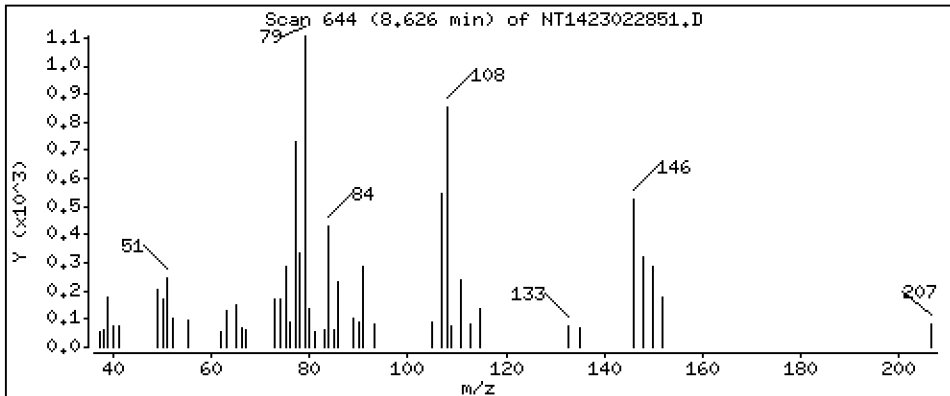
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

11 Benzyl alcohol

Concentration: 0,2776 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

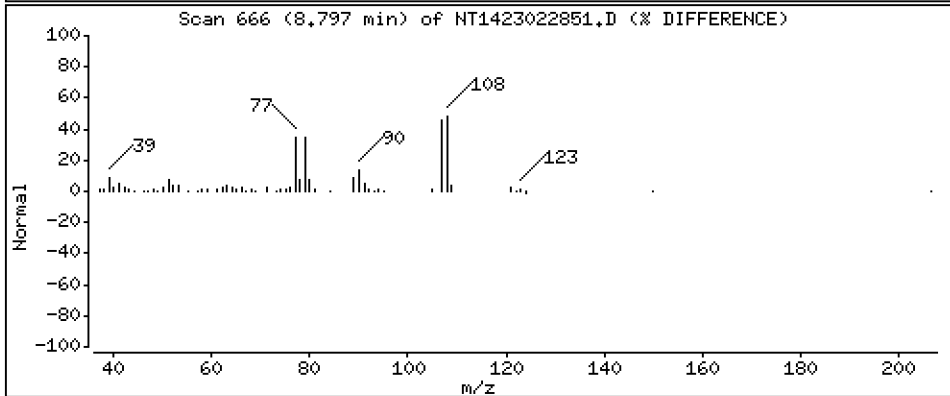
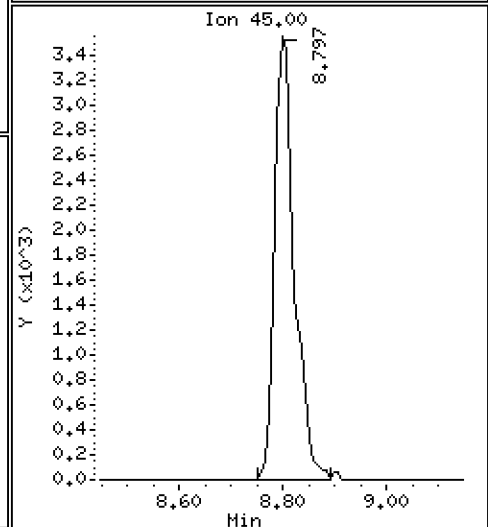
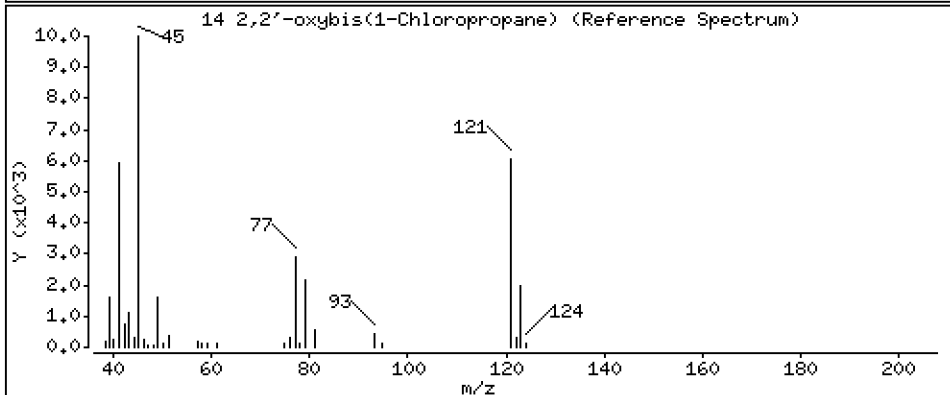
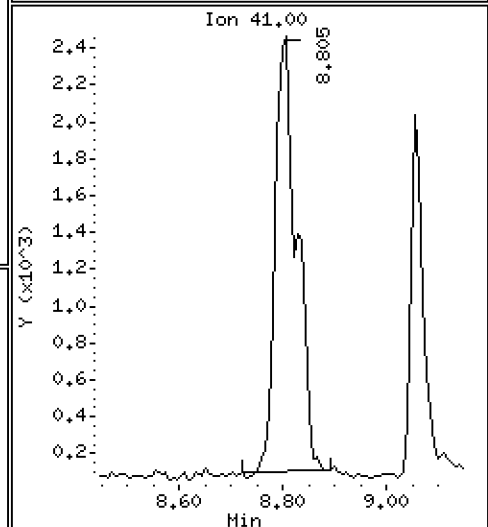
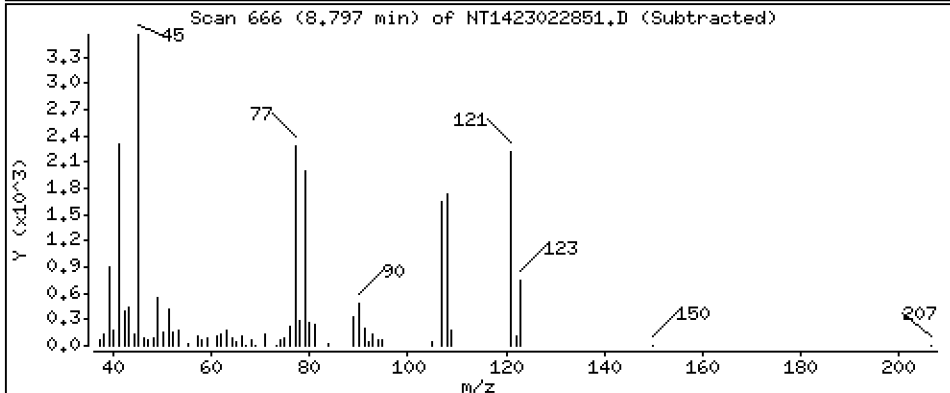
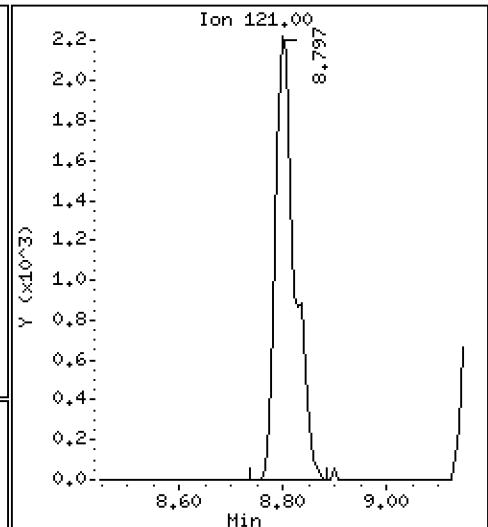
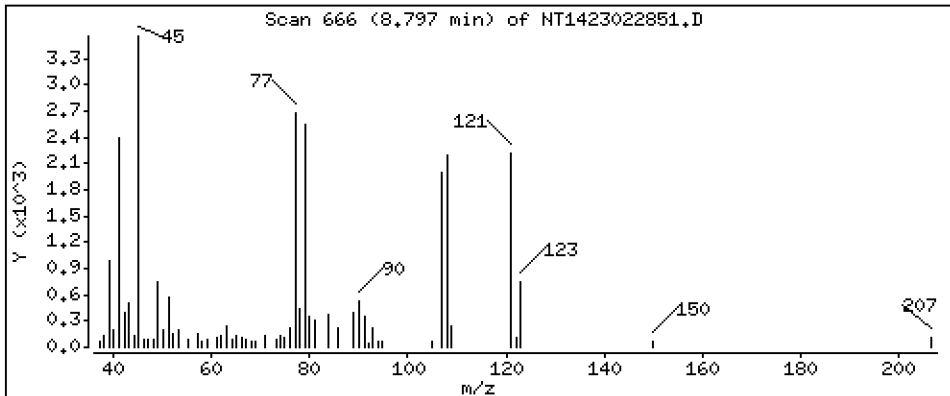
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 0,5373 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

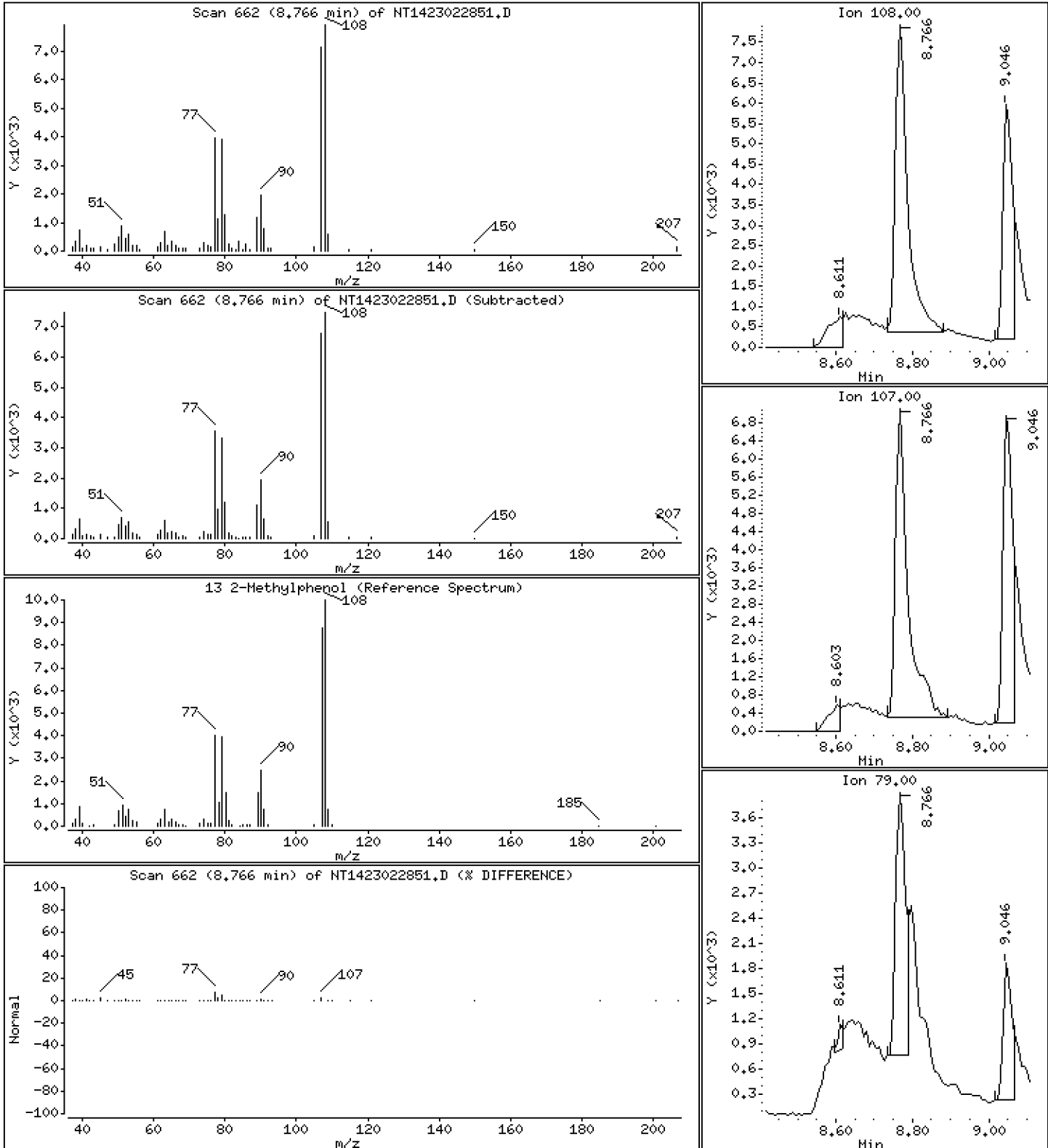
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

13 2-Methylphenol

Concentration: 0.5113 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

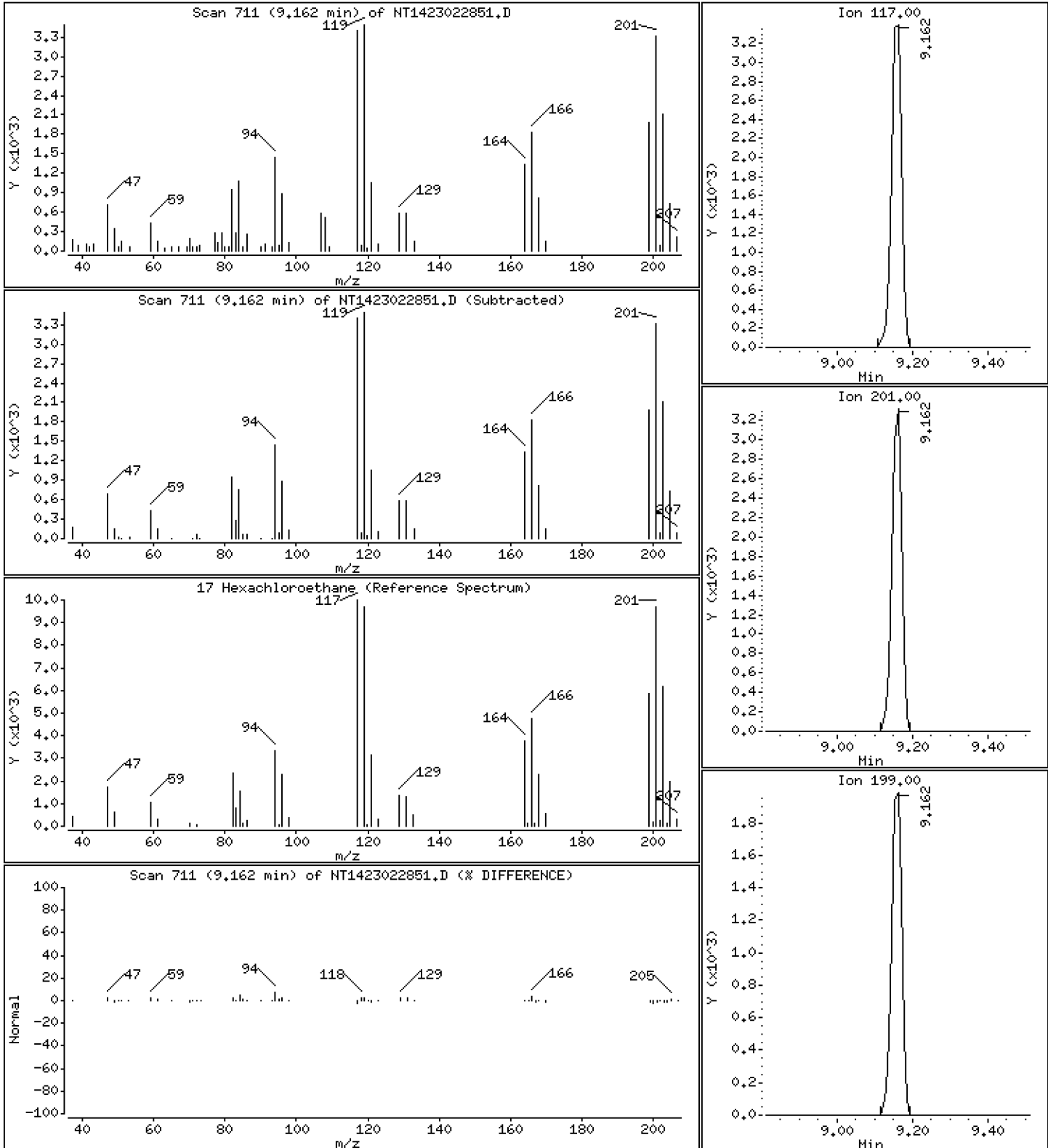
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

17 Hexachloroethane

Concentration: 0.3900 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

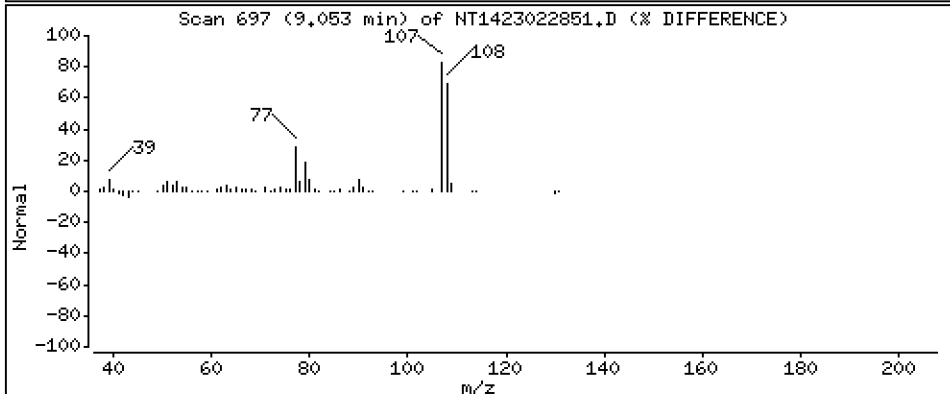
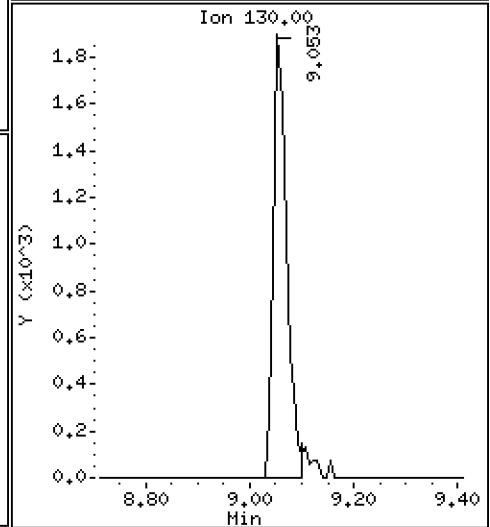
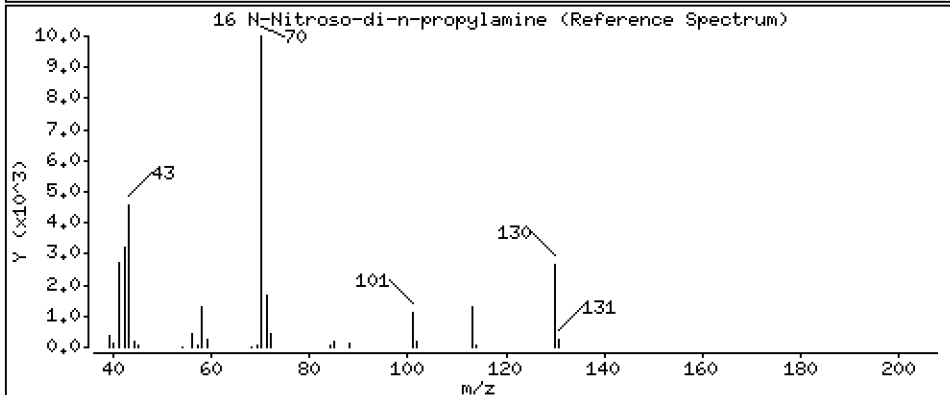
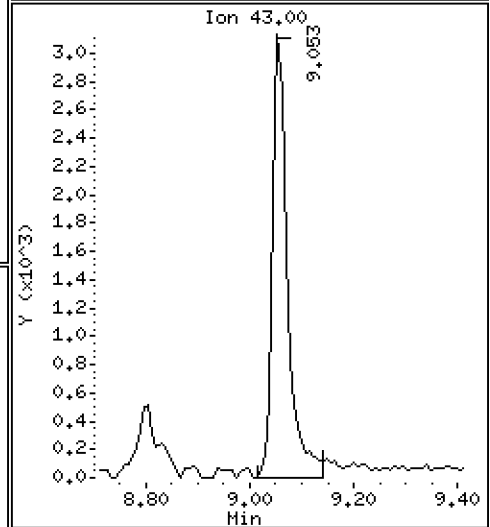
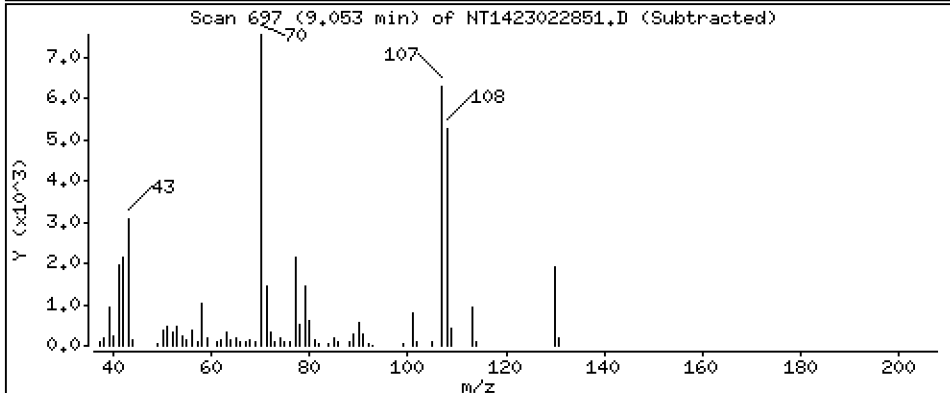
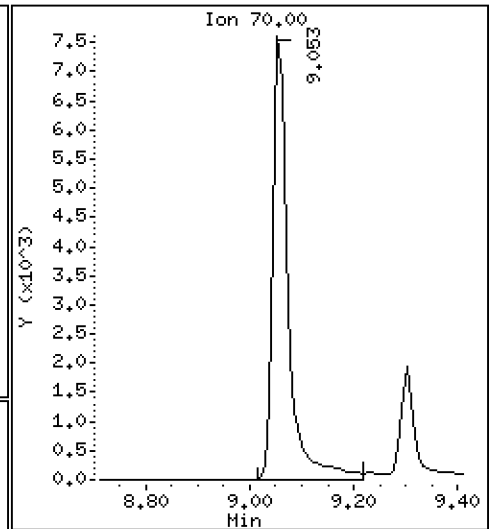
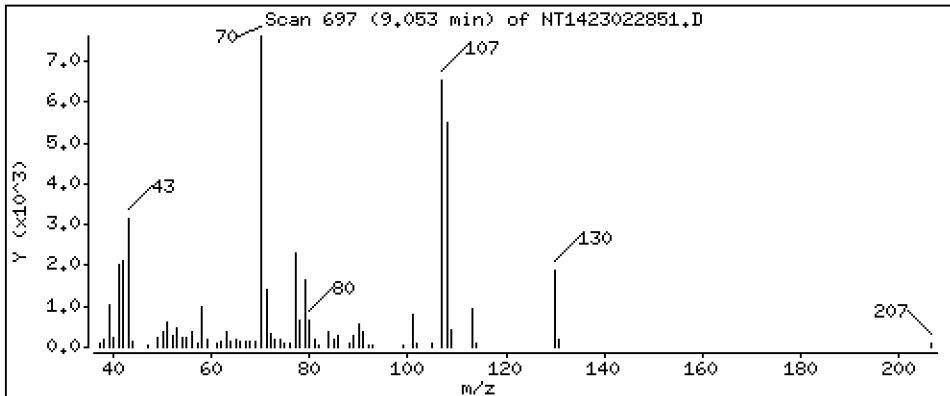
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

16 N-Nitroso-di-n-propylamine

Concentration: 0.6127 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

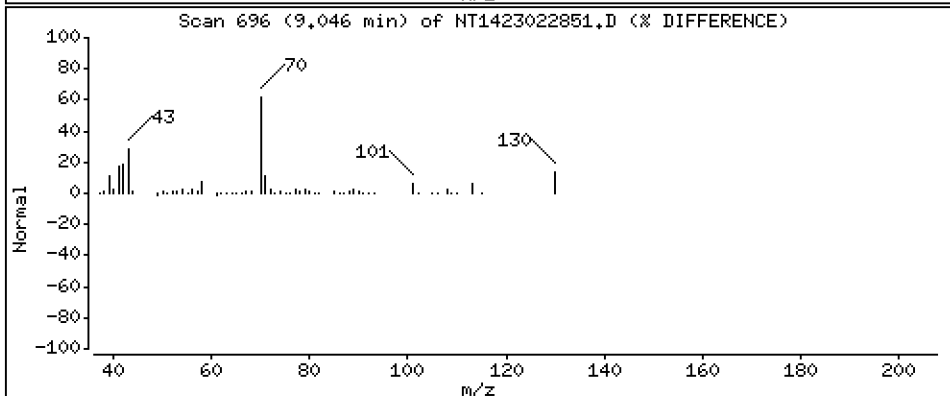
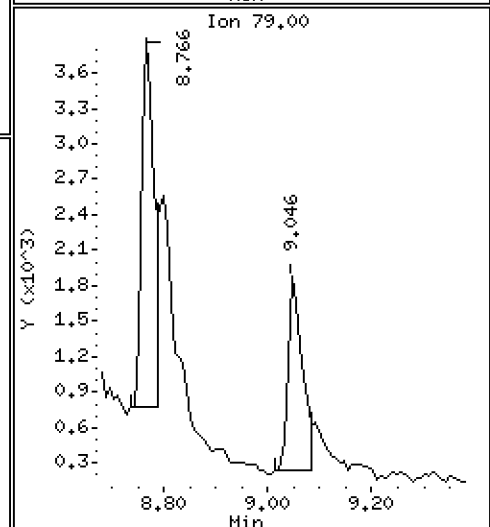
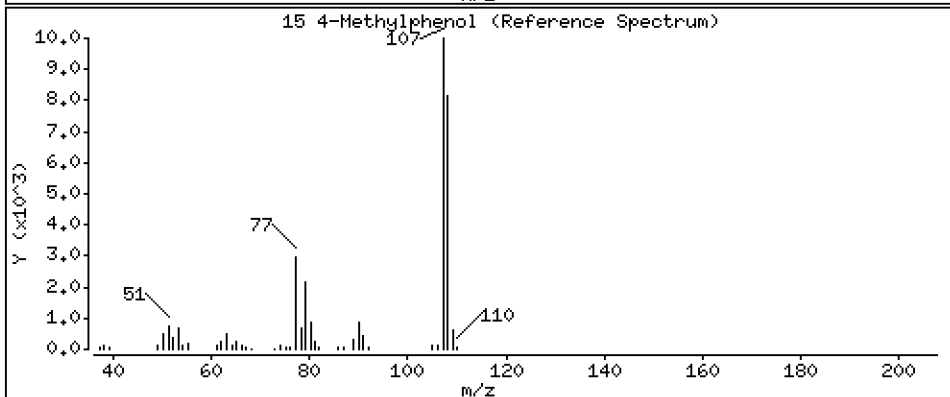
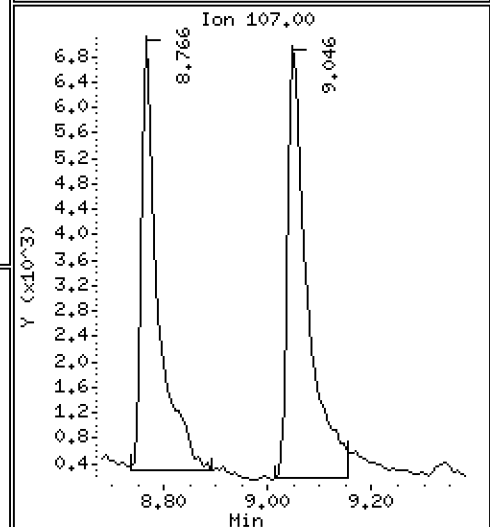
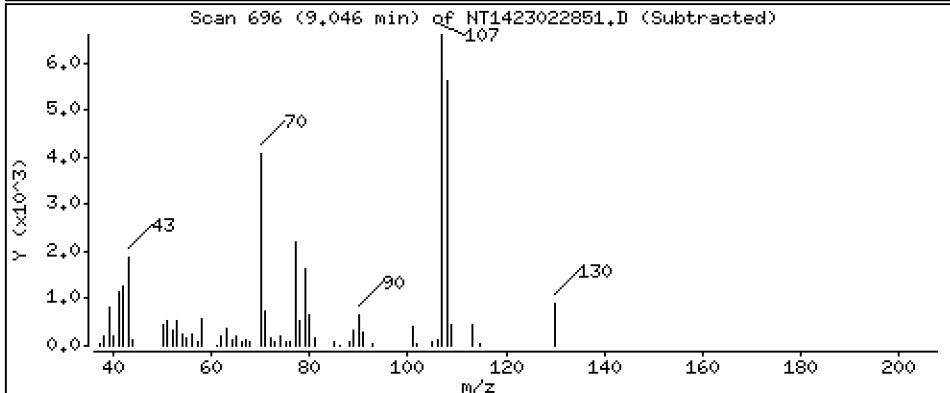
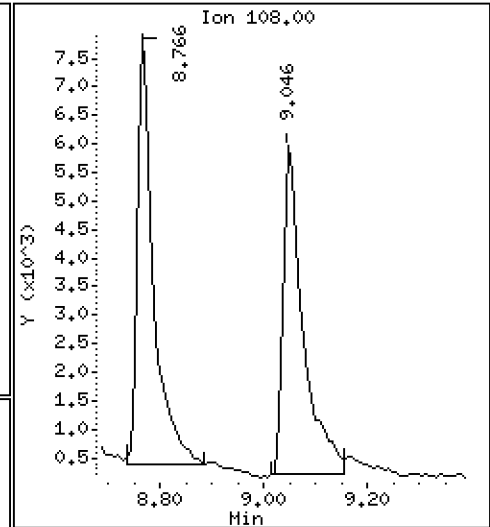
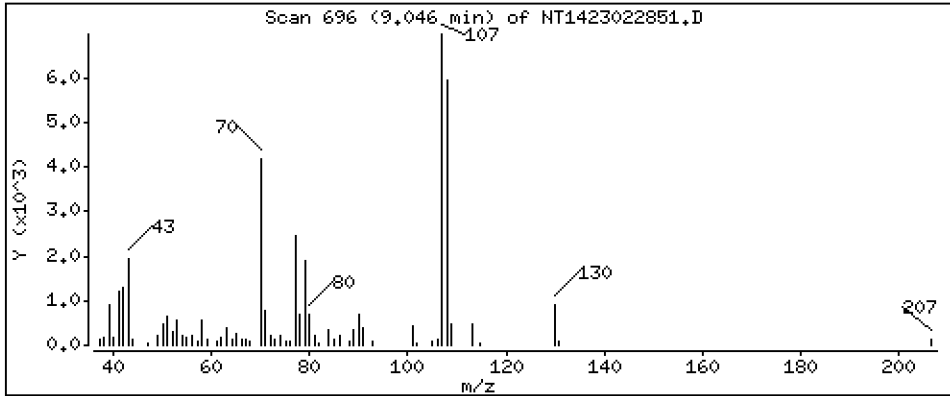
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

15 4-Methylphenol

Concentration: 0,4112 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

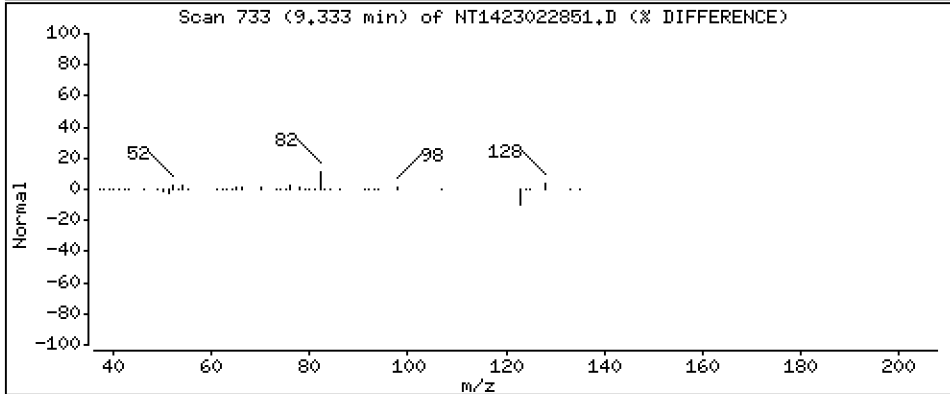
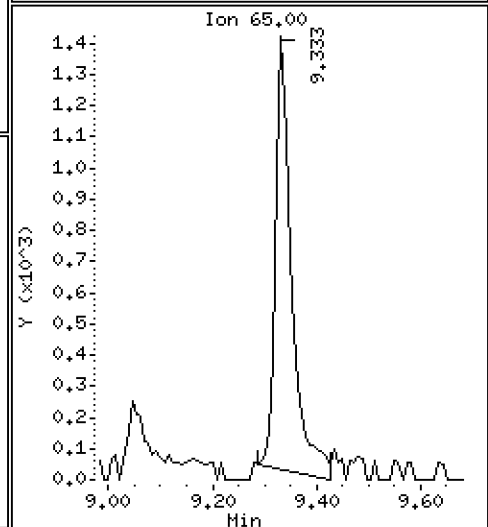
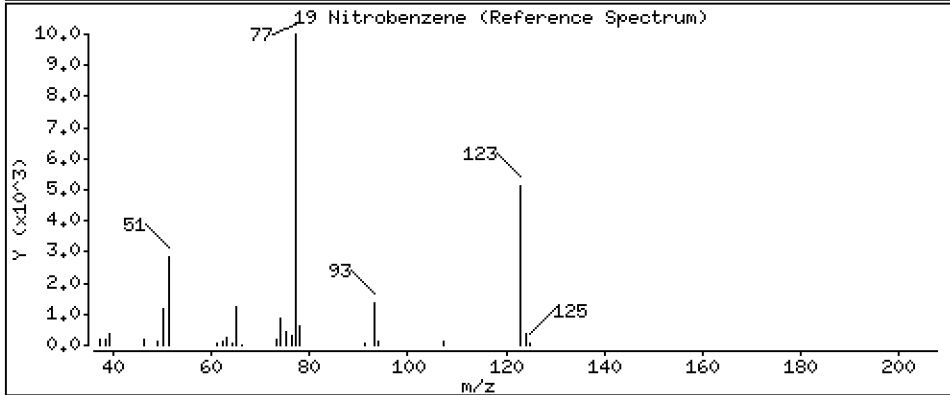
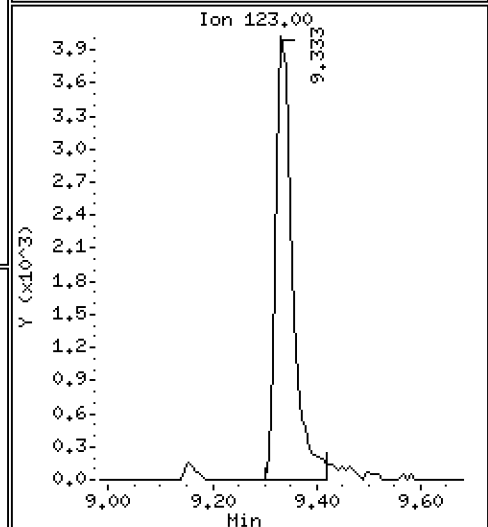
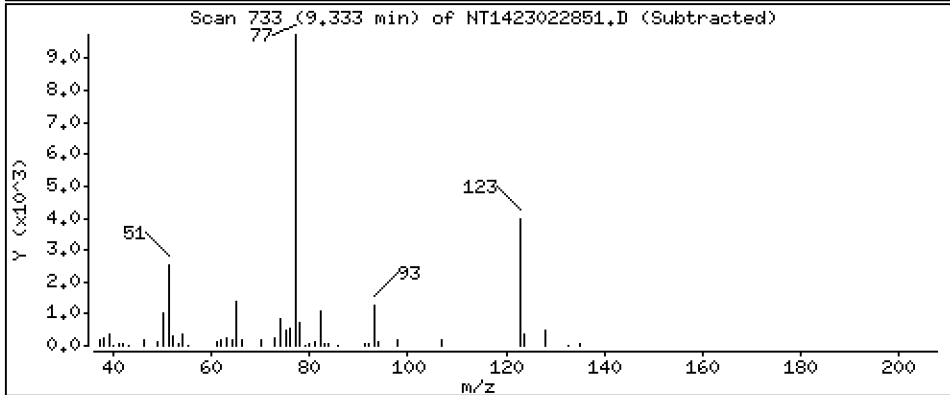
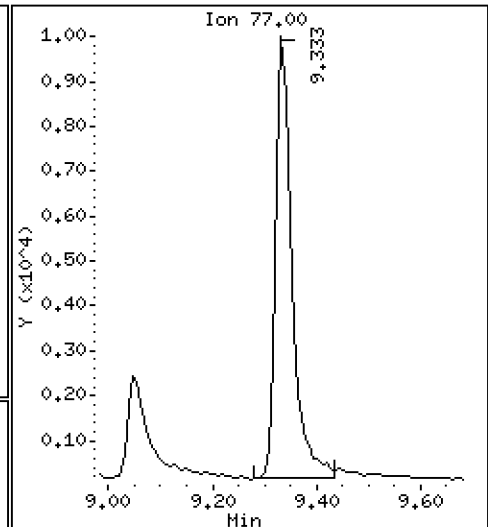
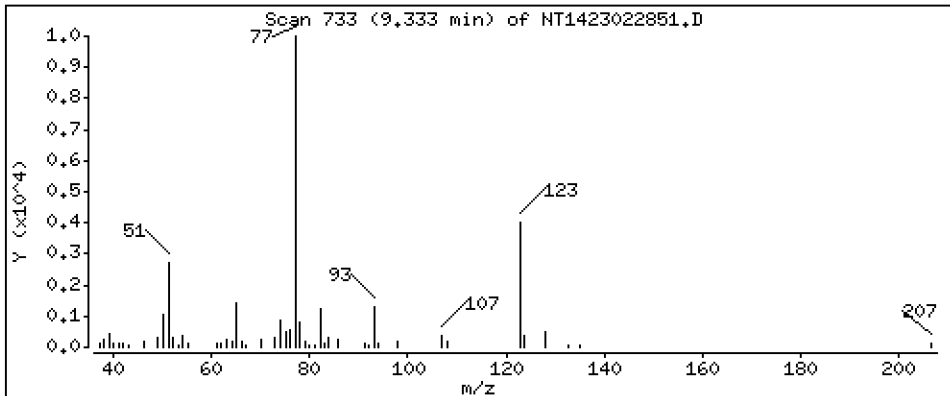
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

19 Nitrobenzene

Concentration: 0,5427 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

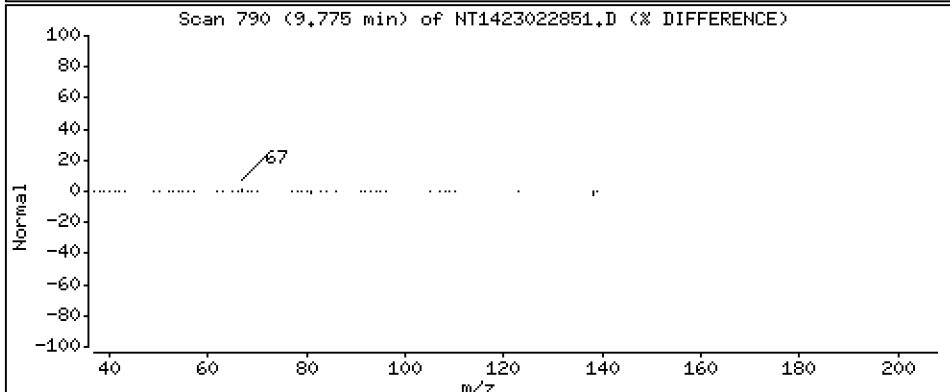
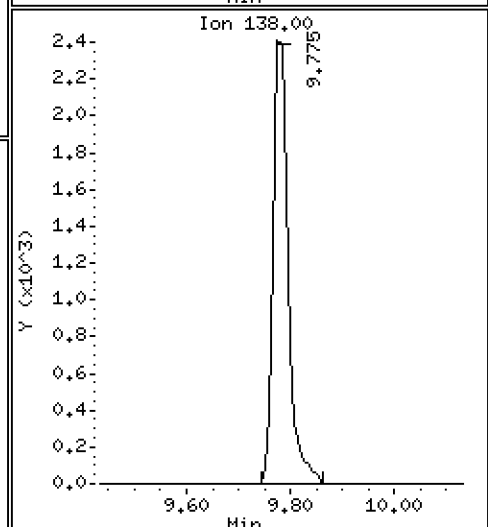
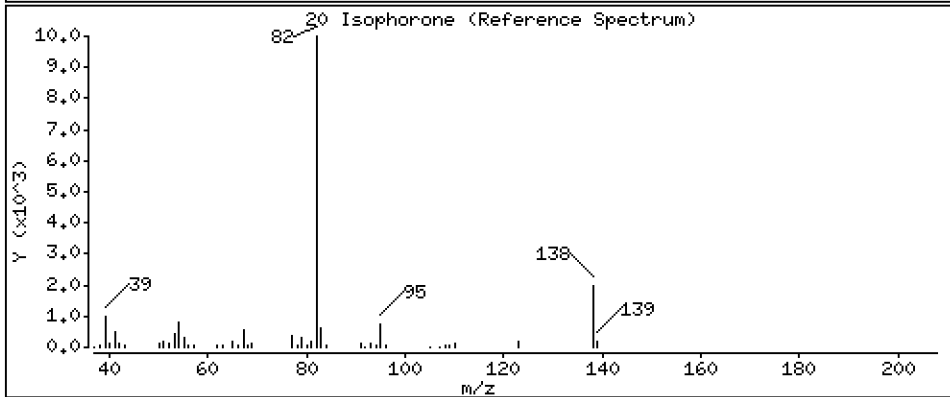
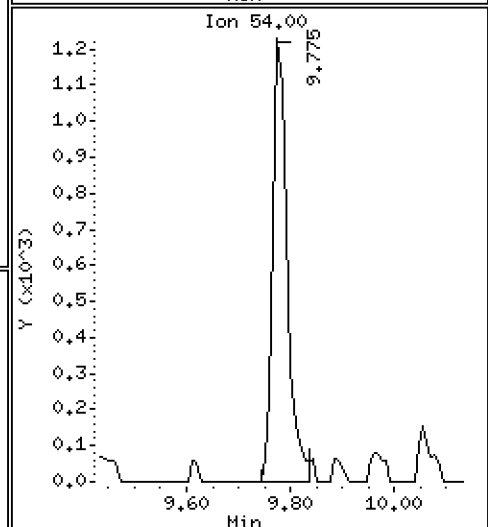
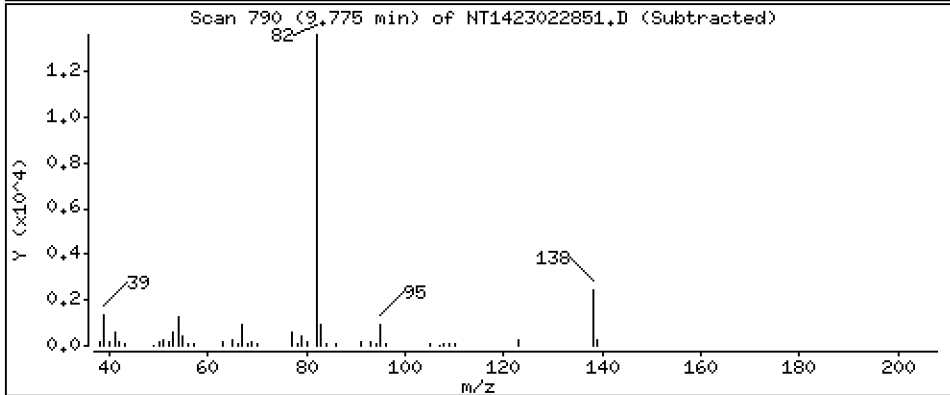
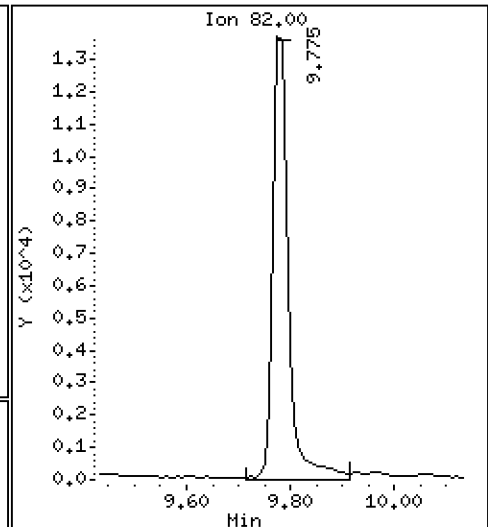
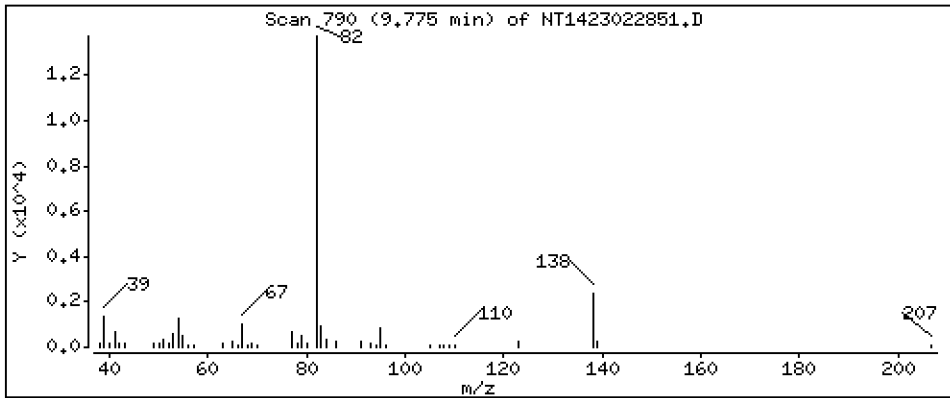
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

20 Isophorone

Concentration: 0.4990 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

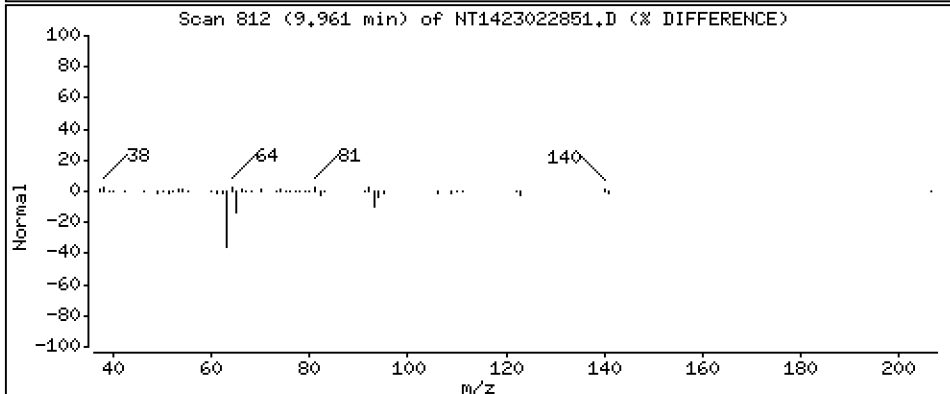
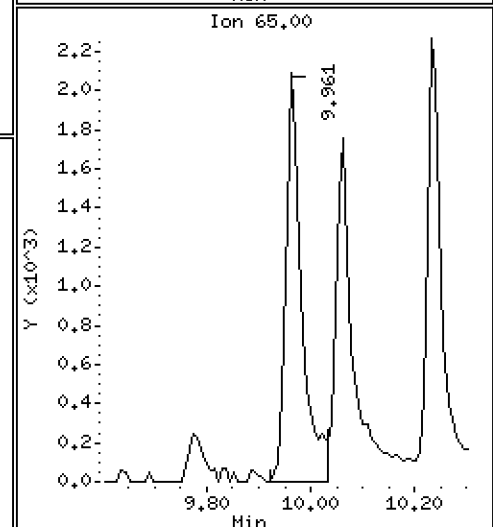
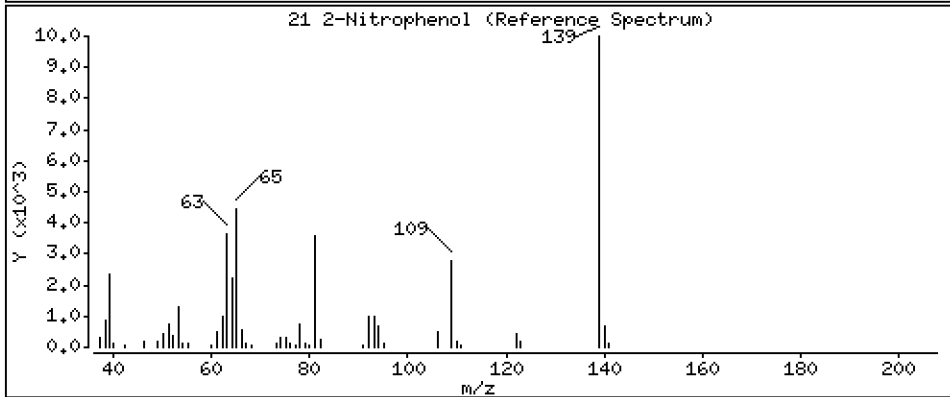
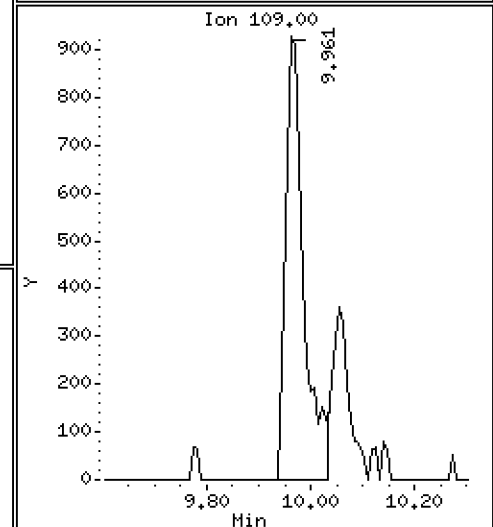
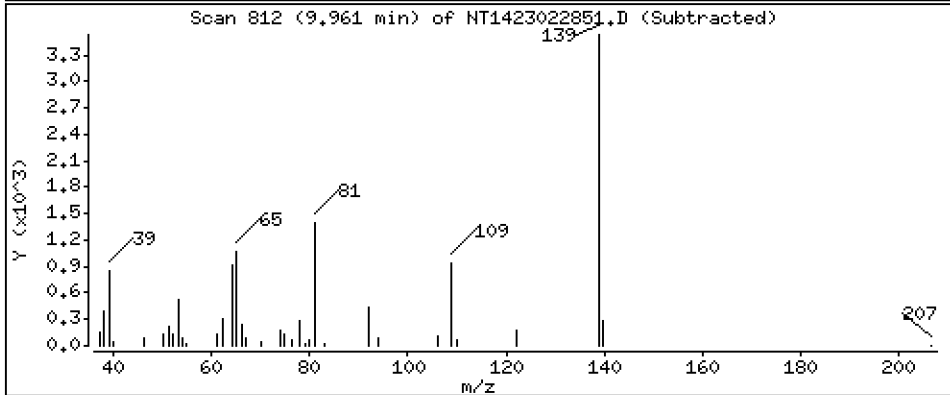
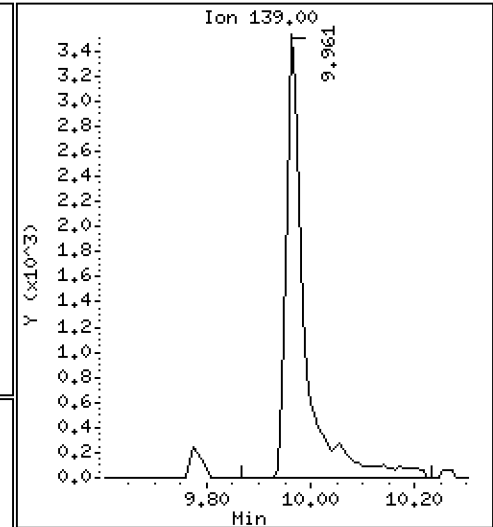
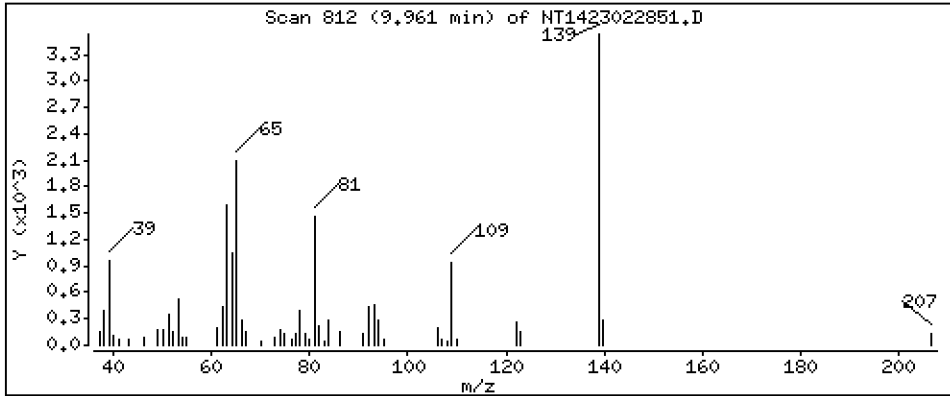
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

21 2-Nitrophenol

Concentration: 0.4685 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

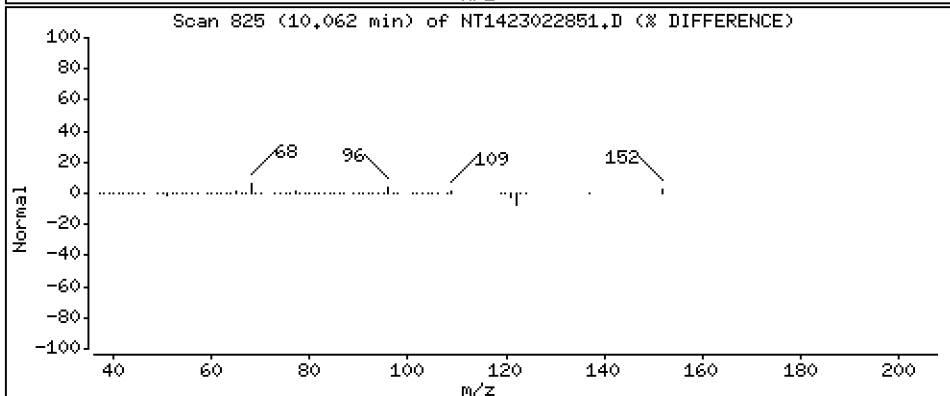
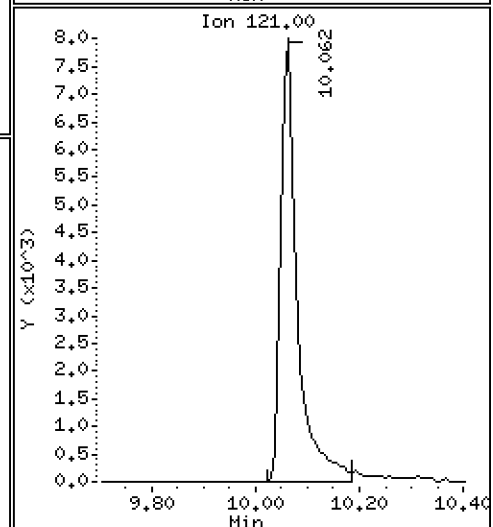
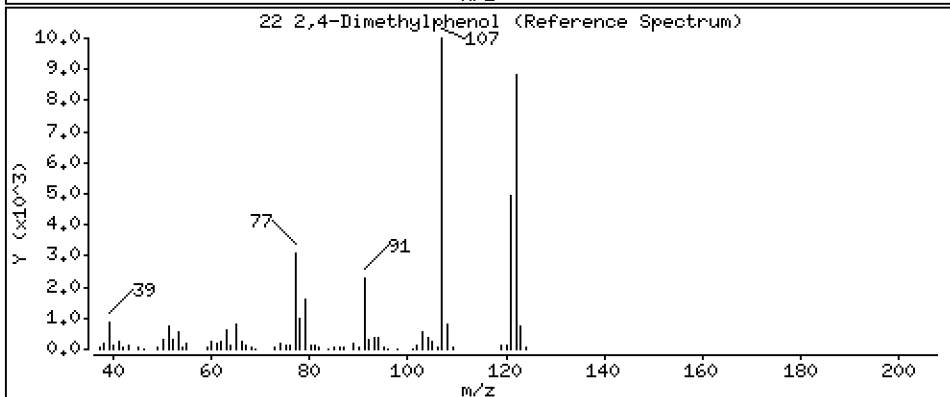
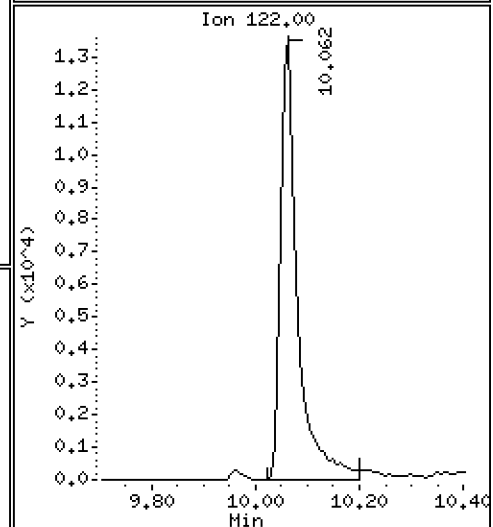
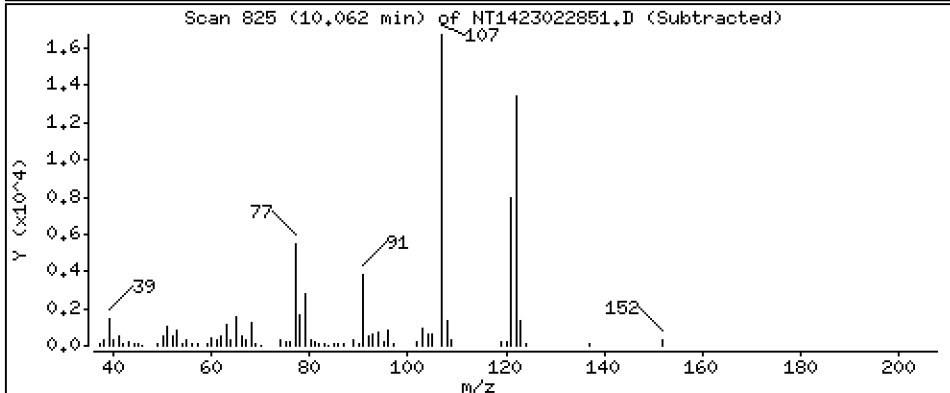
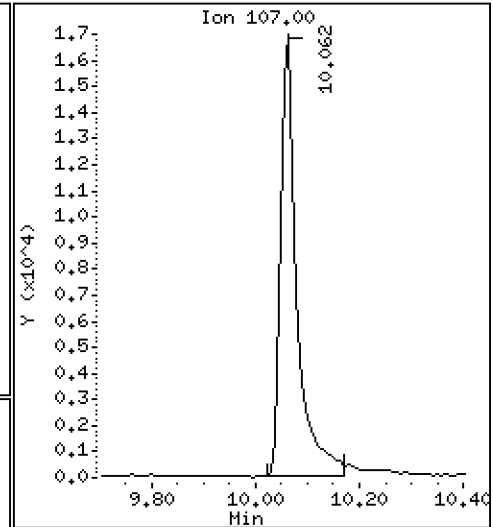
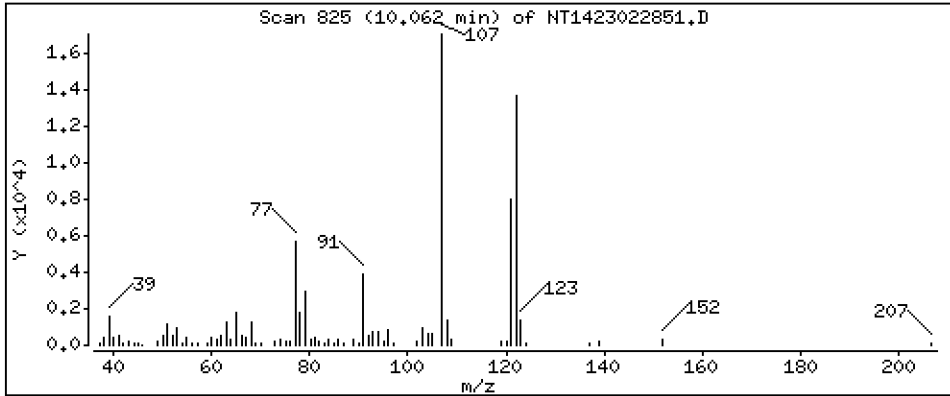
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 1,033 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

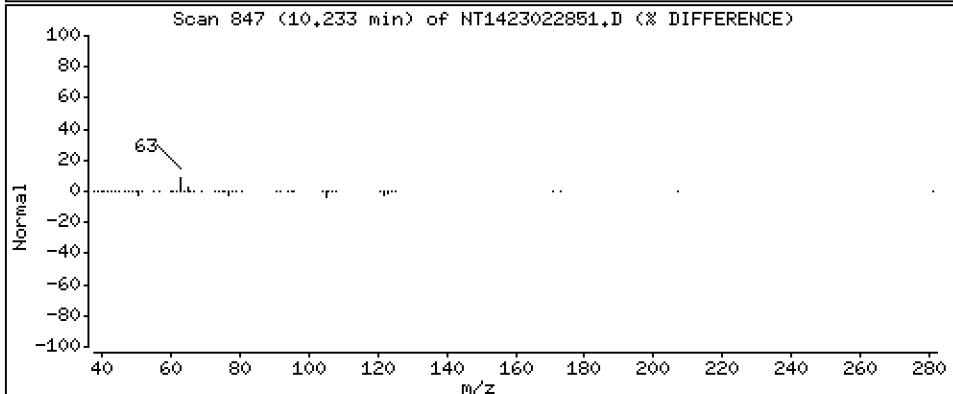
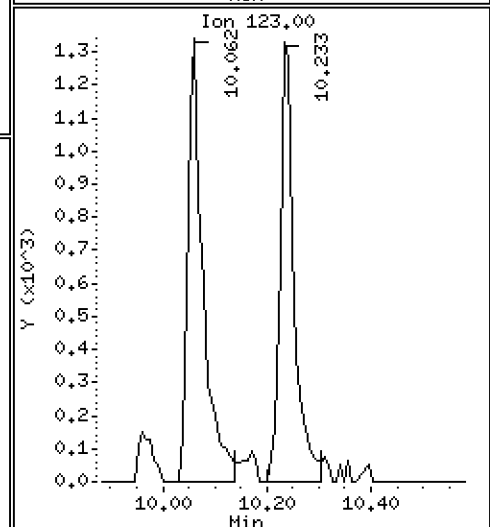
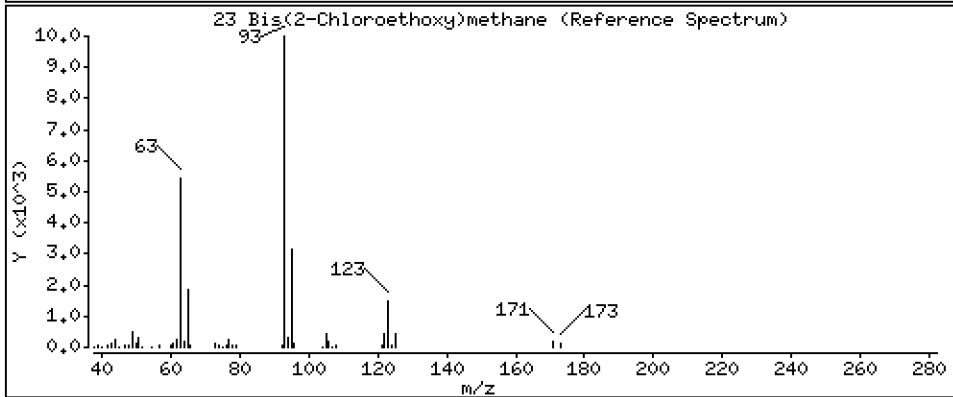
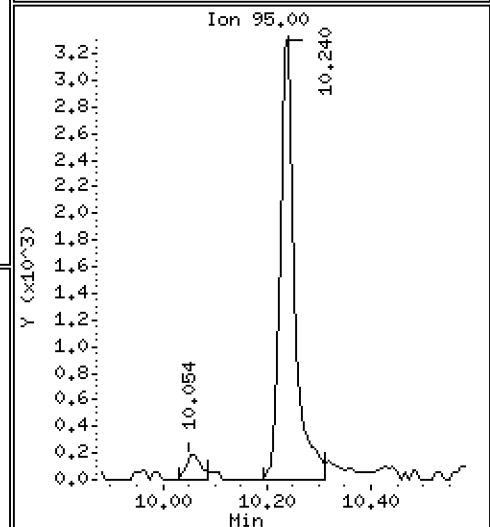
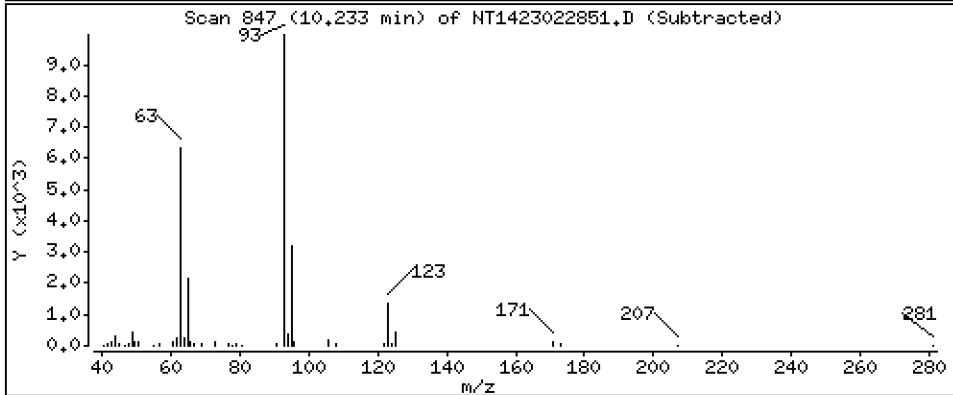
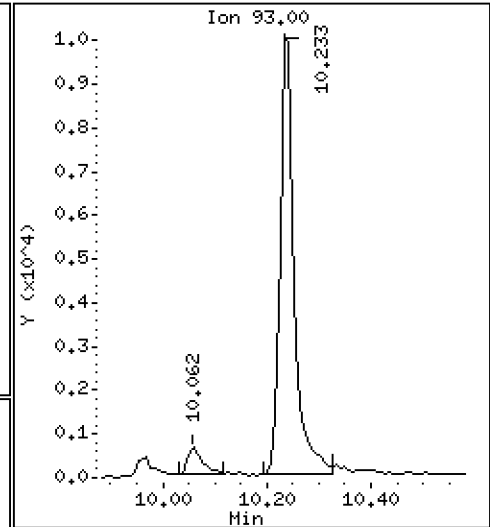
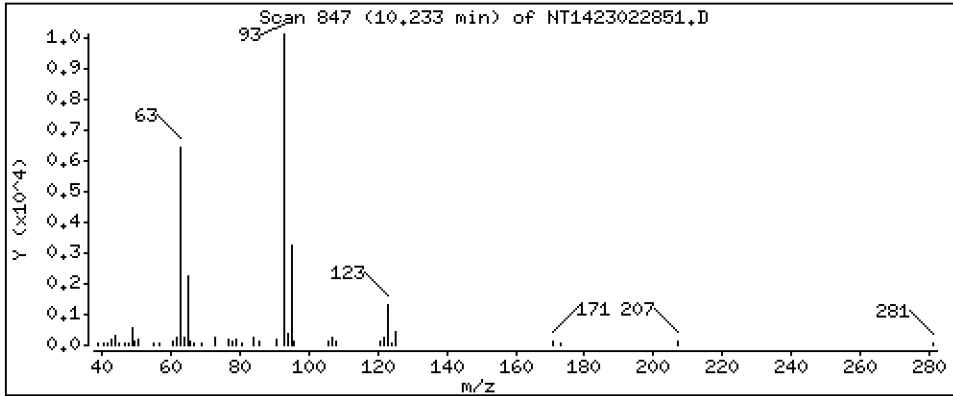
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

23 Bis(2-Chloroethoxy)methane

Concentration: 0,5015 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

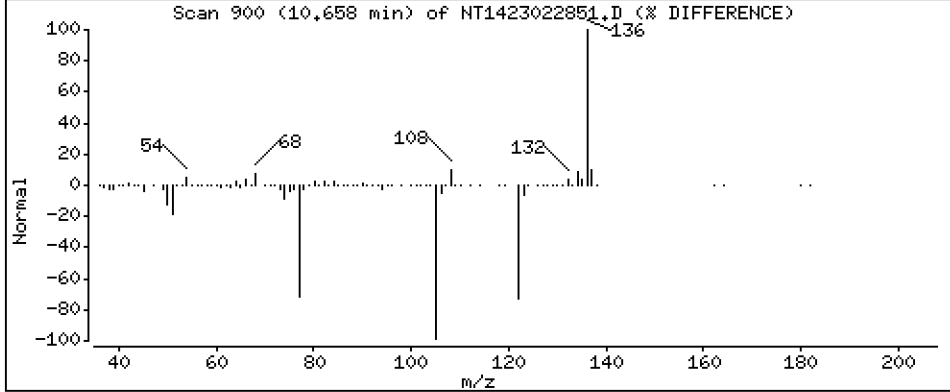
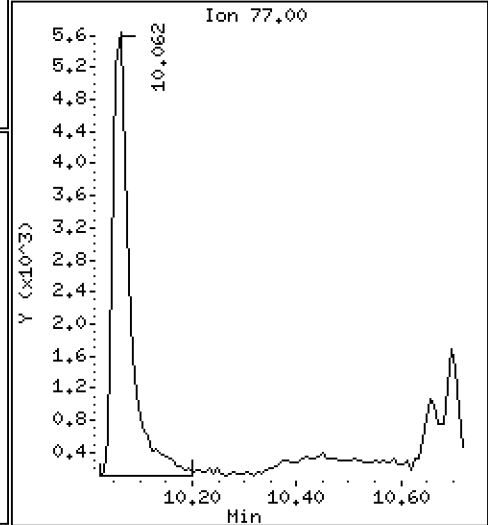
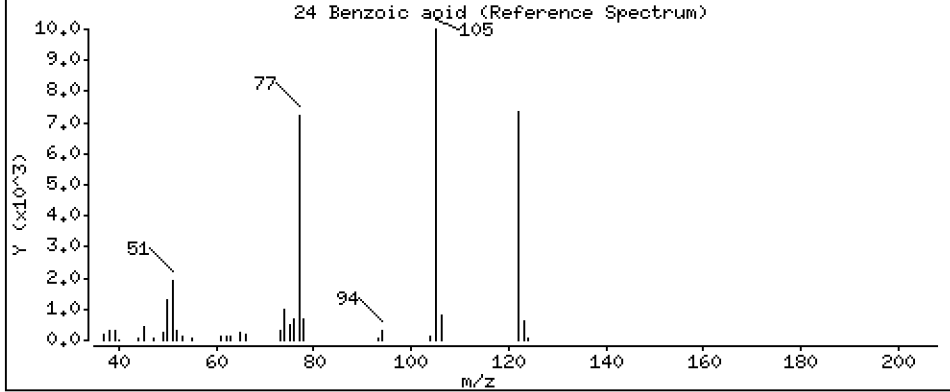
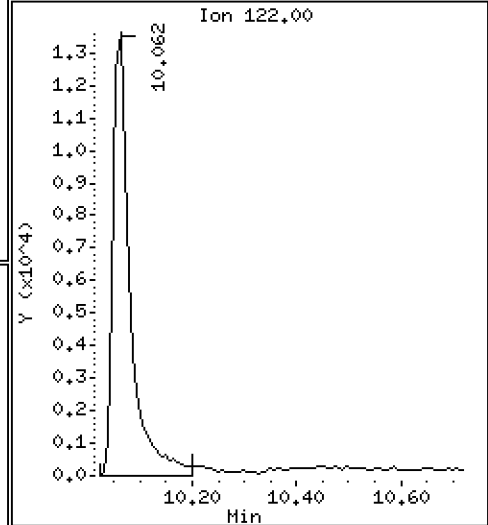
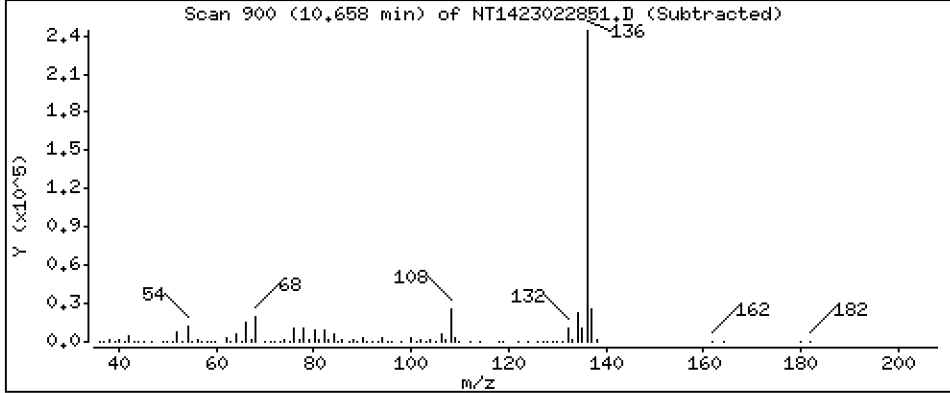
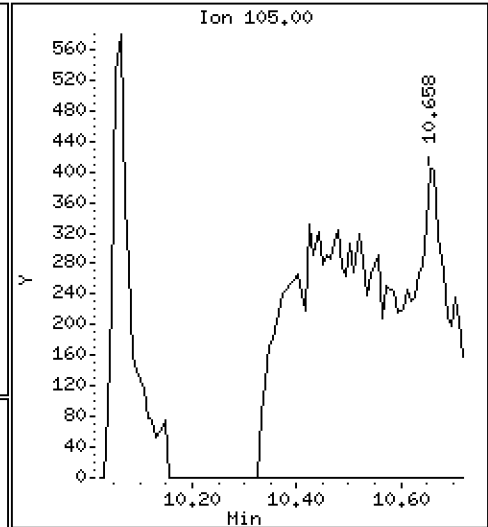
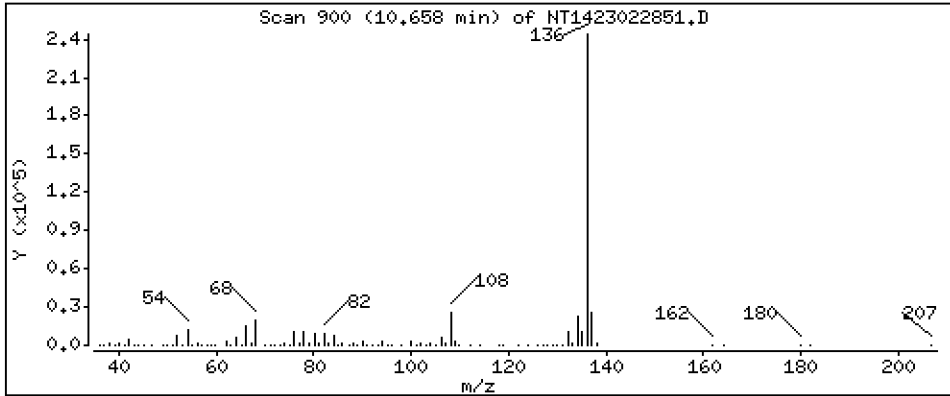
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

24 Benzoic acid

Concentration: 1,087 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

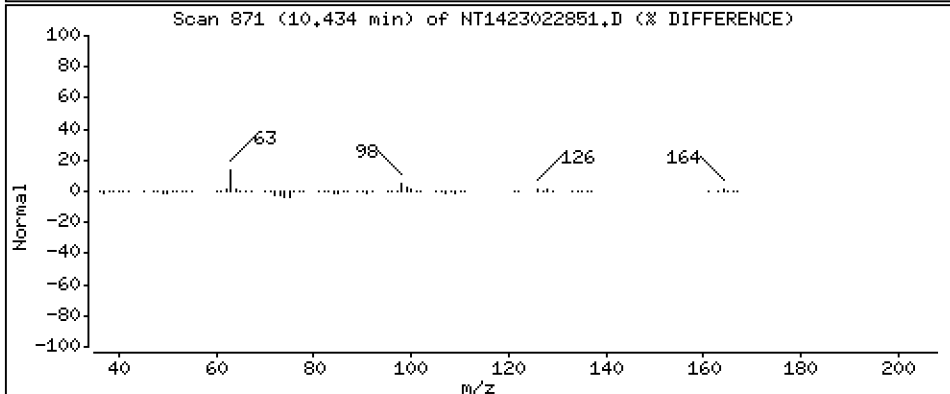
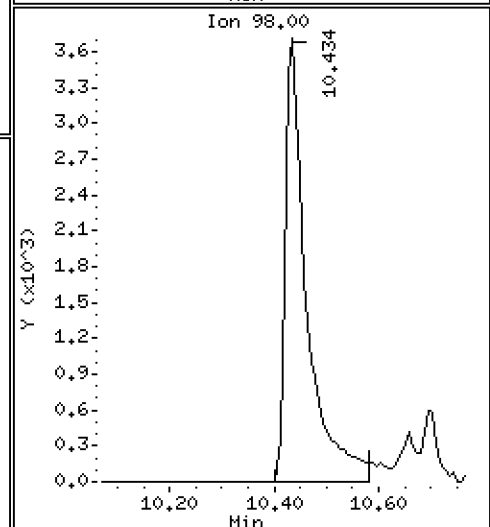
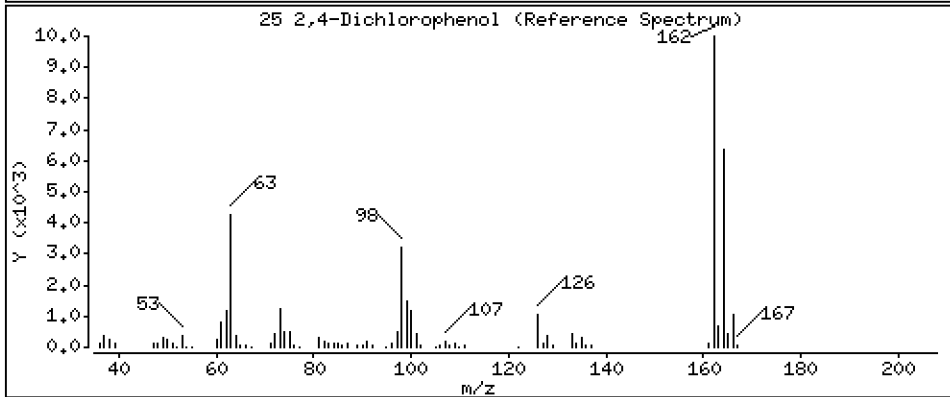
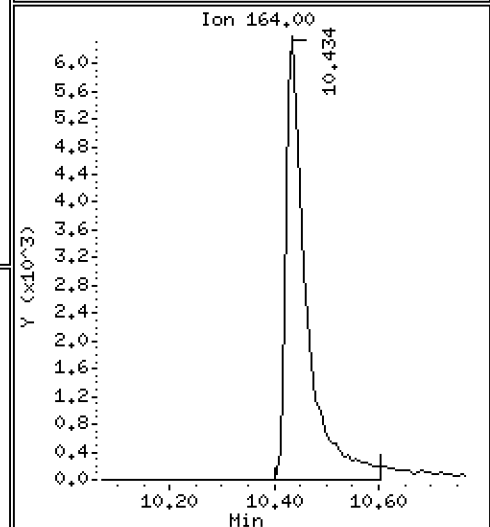
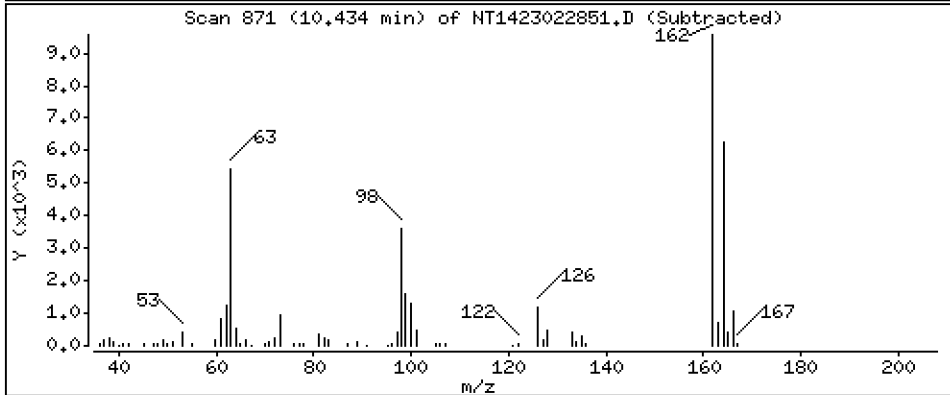
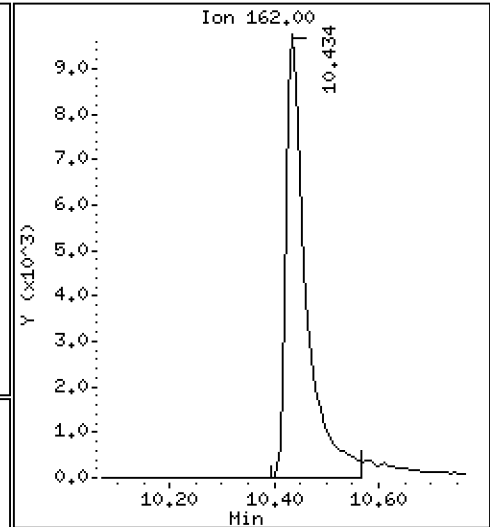
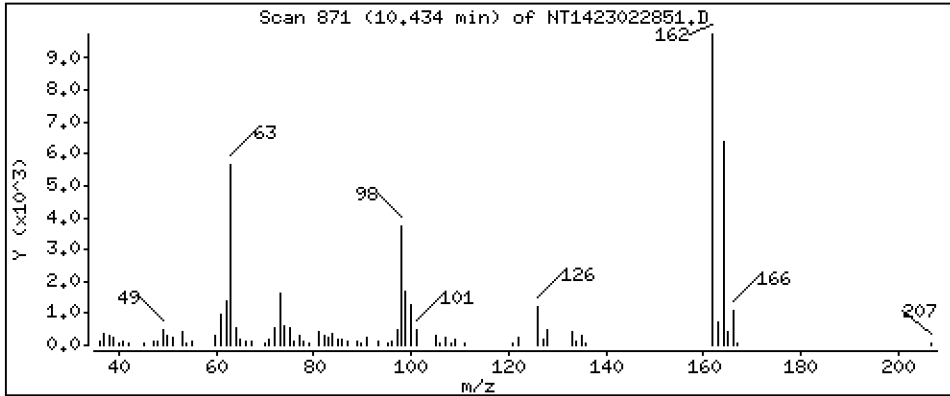
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 0,7757 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

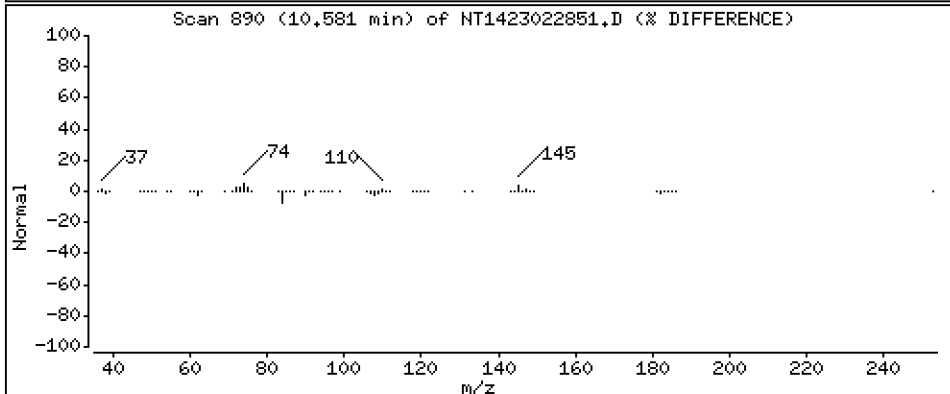
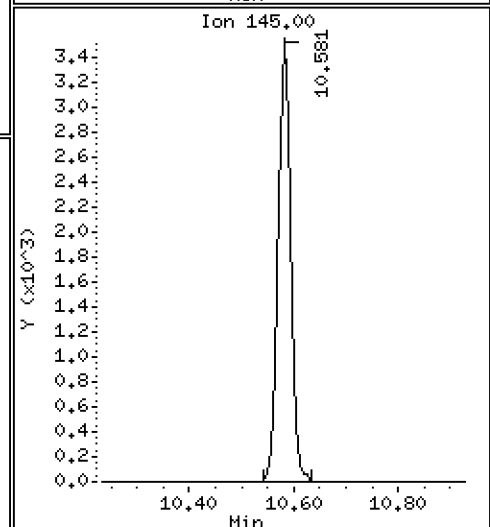
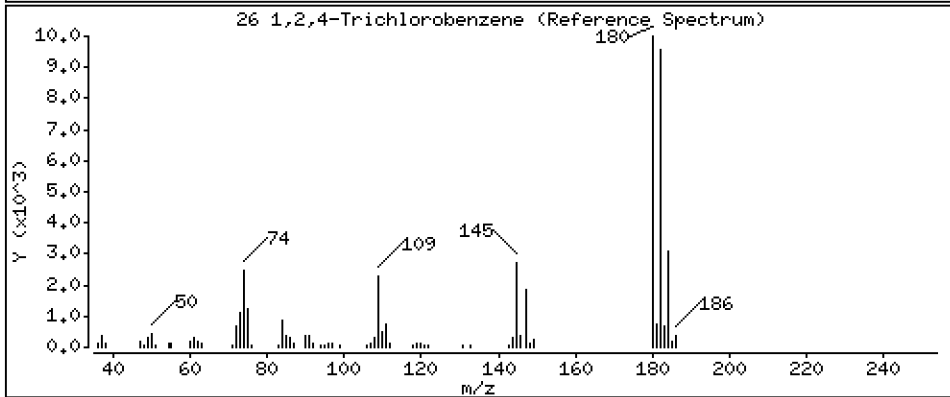
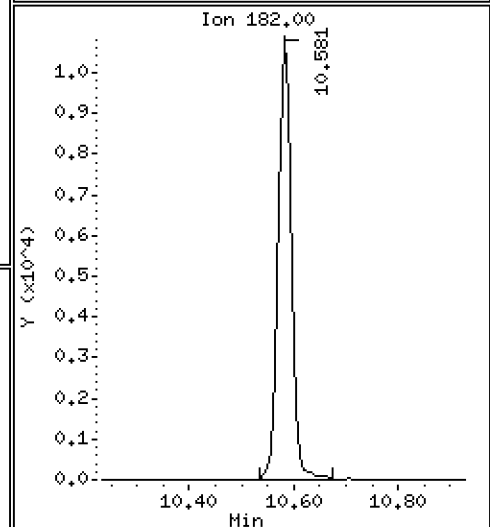
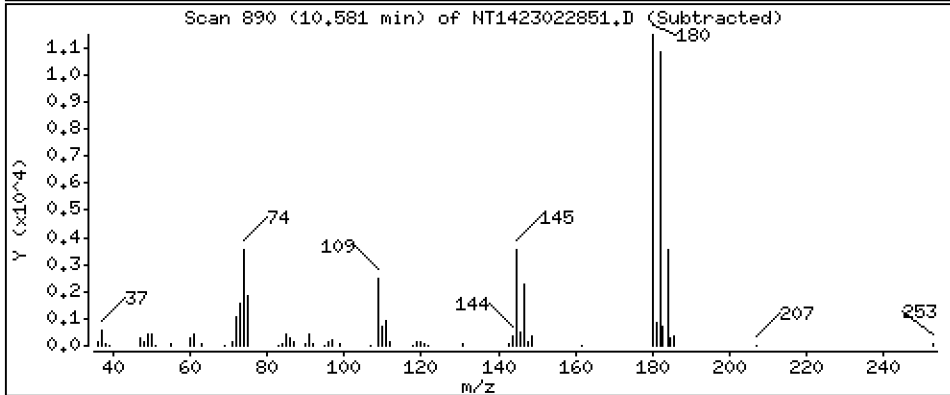
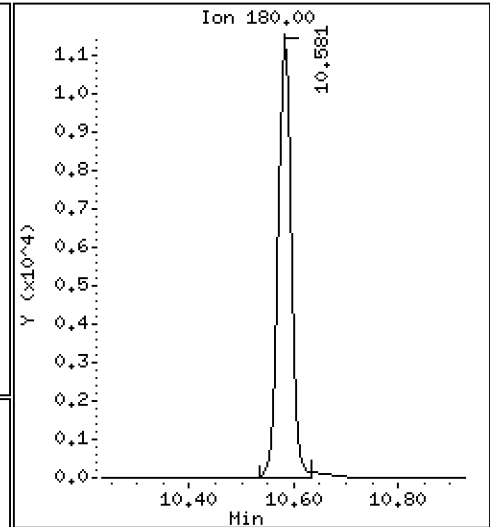
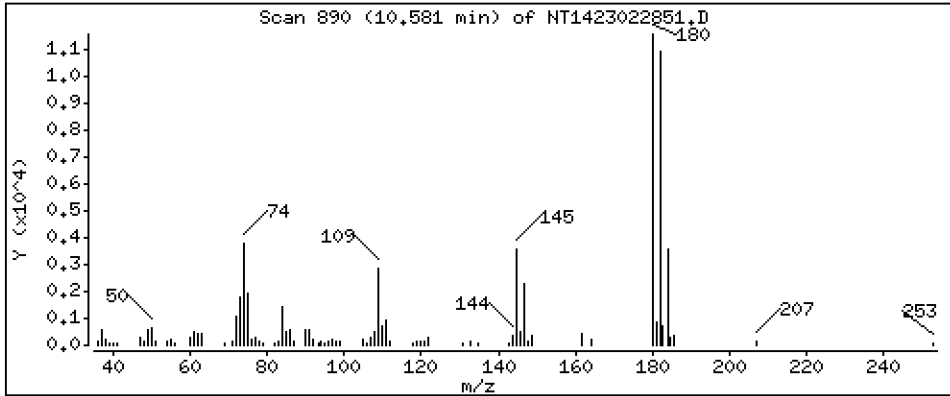
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 0,4890 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

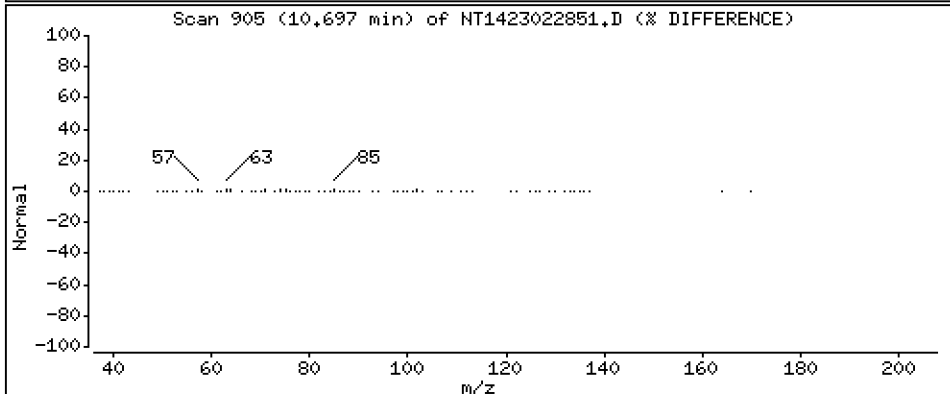
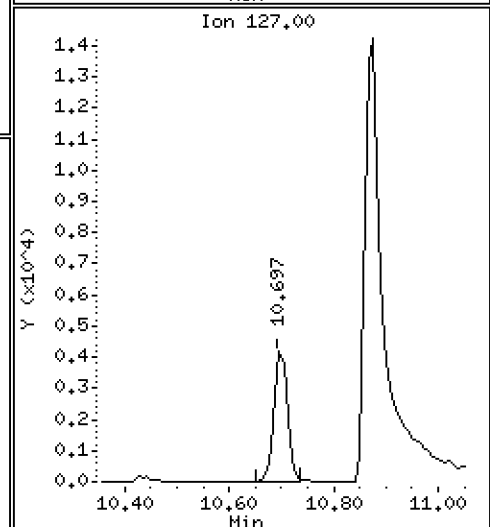
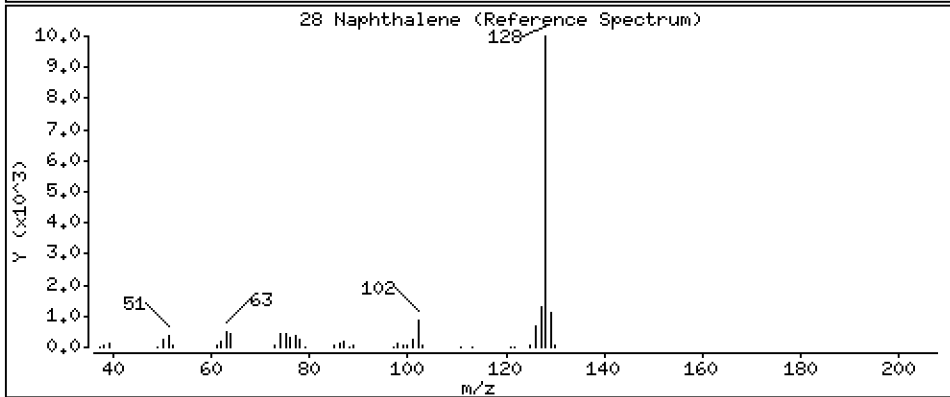
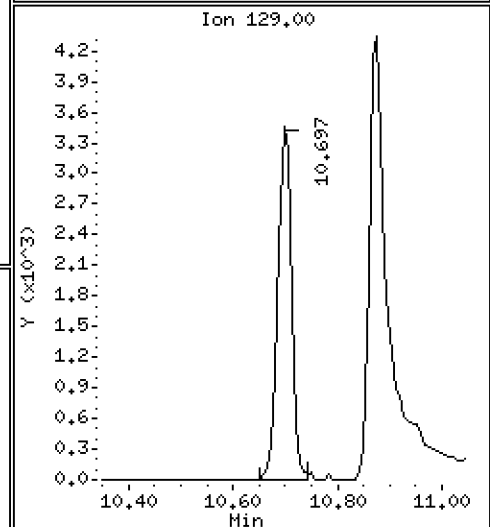
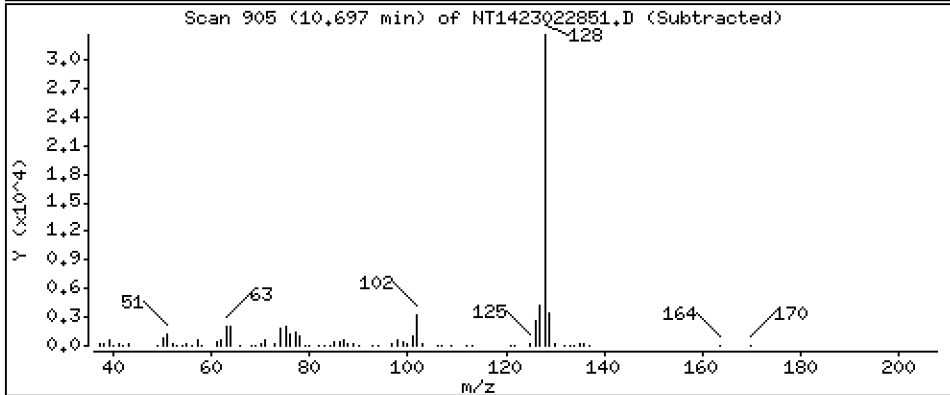
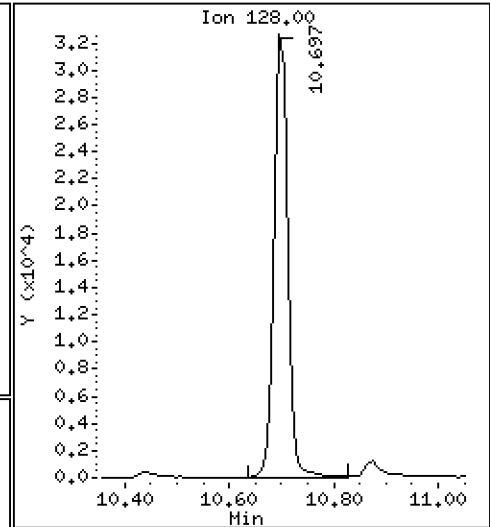
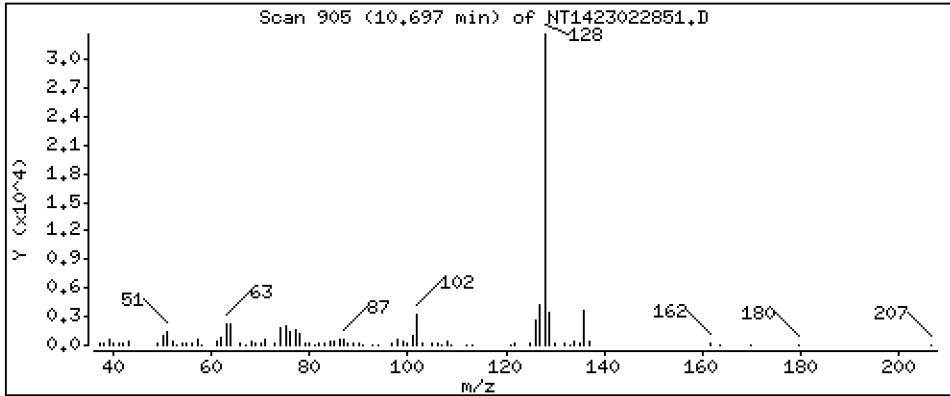
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 0,5296 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

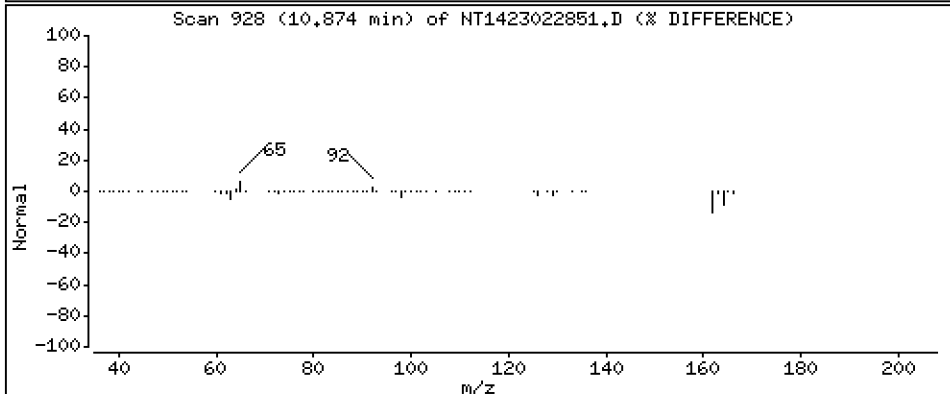
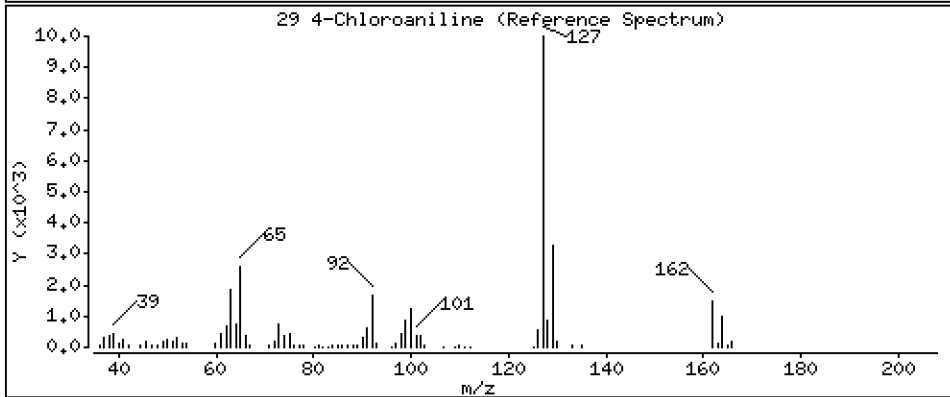
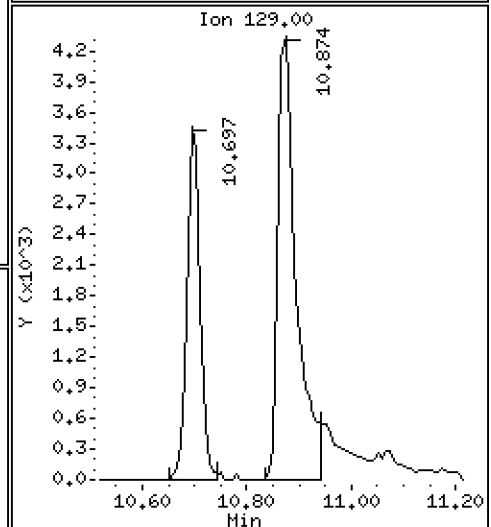
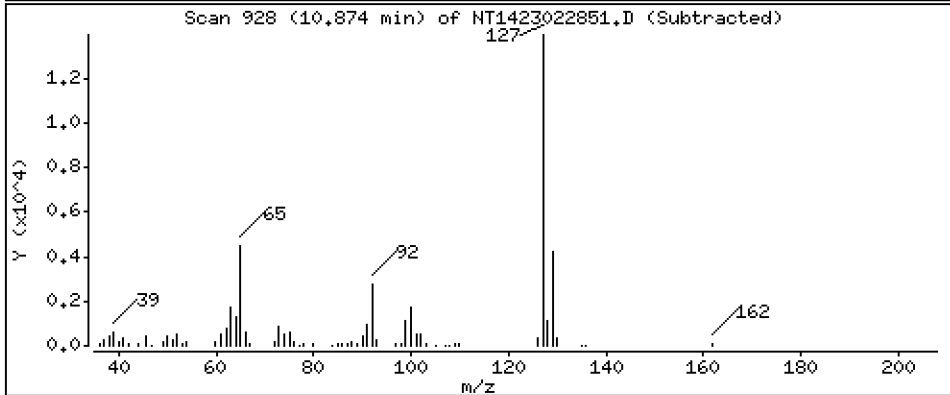
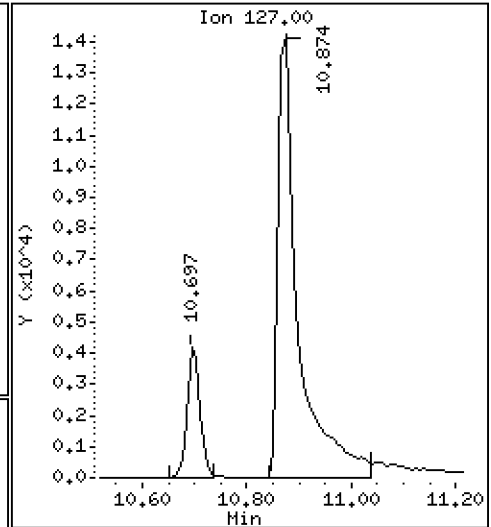
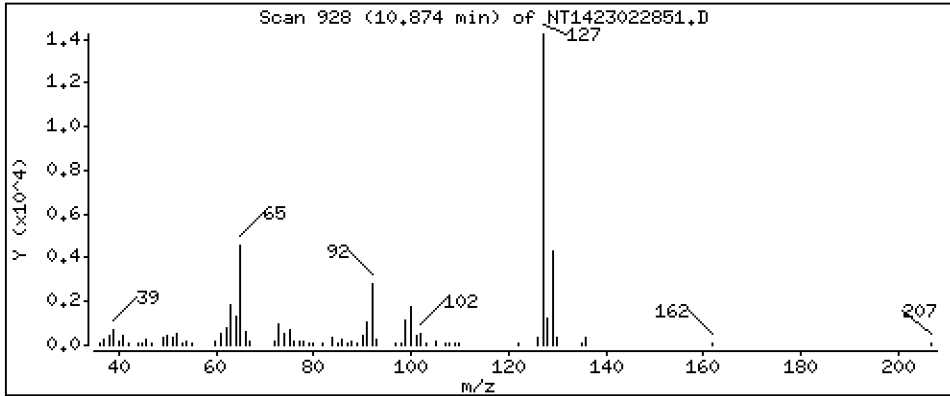
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

29 4-Chloroaniline

Concentration: 0,8631 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

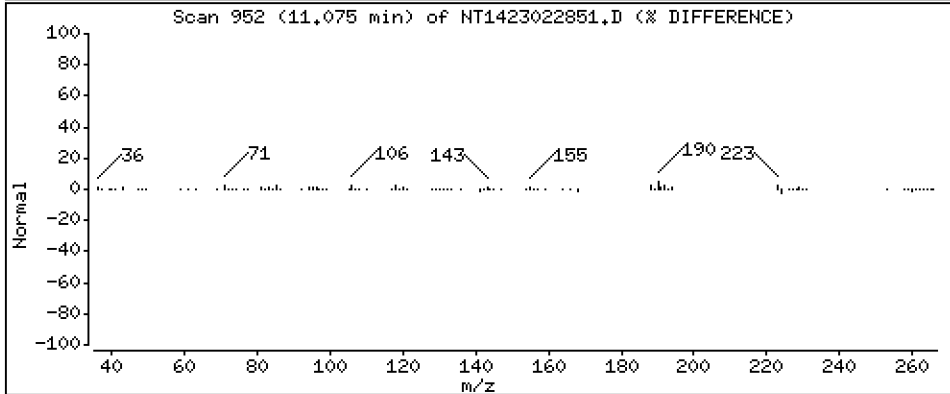
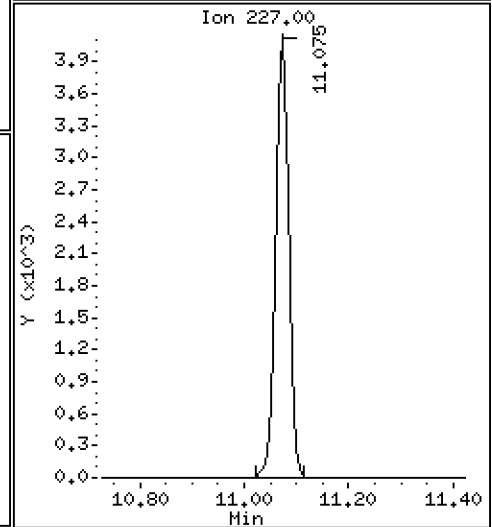
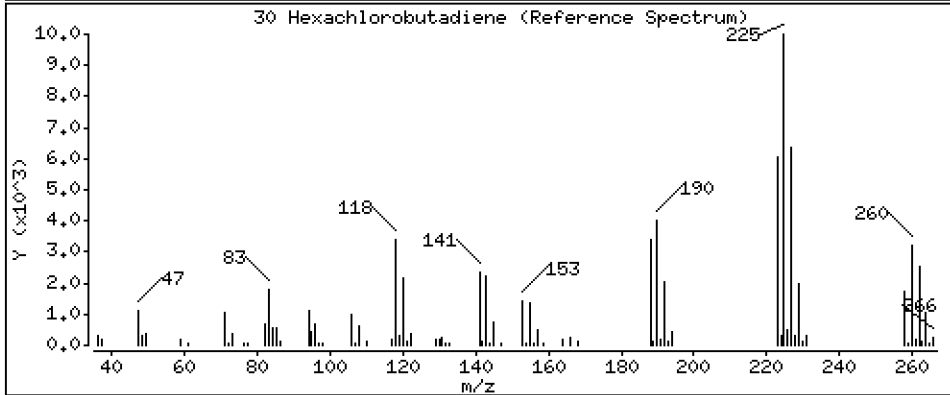
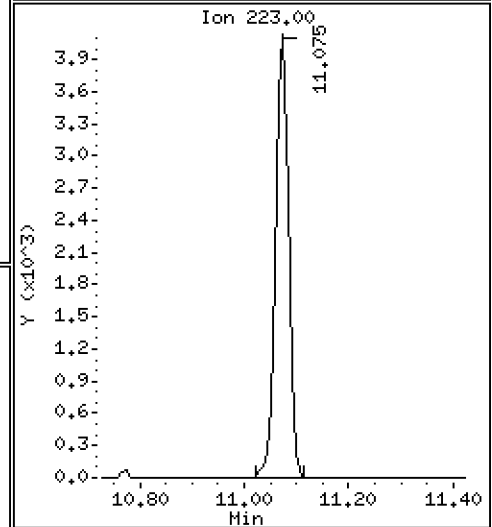
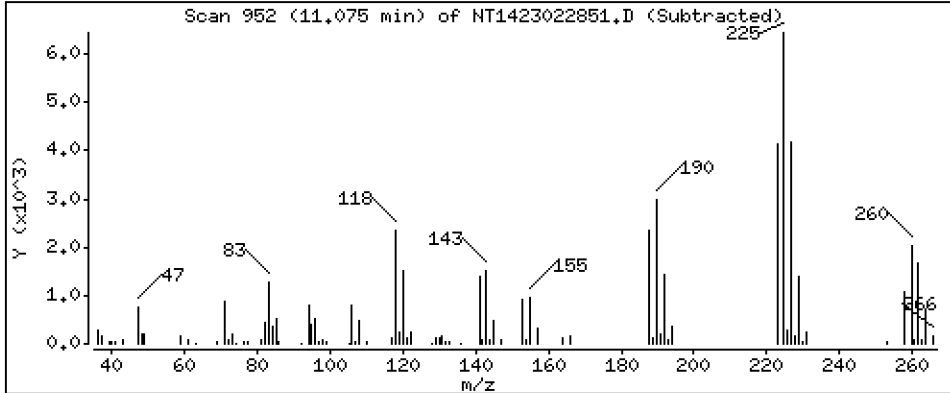
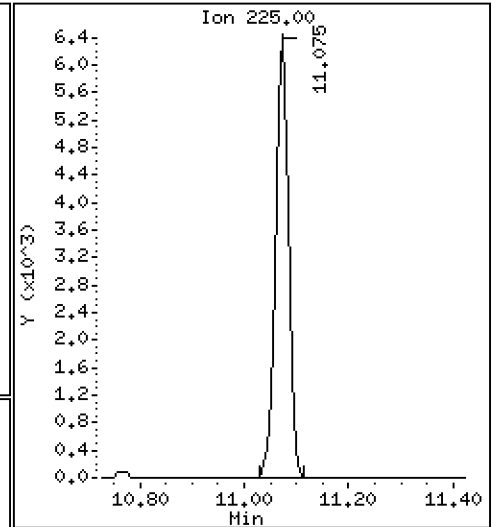
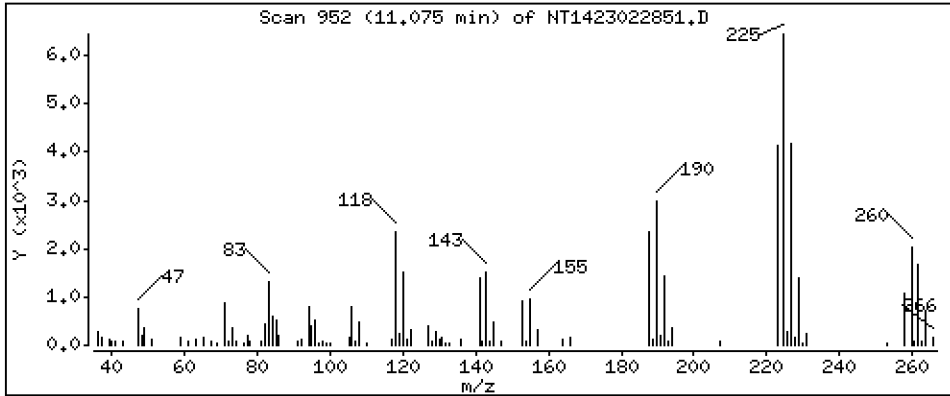
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 0,4391 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

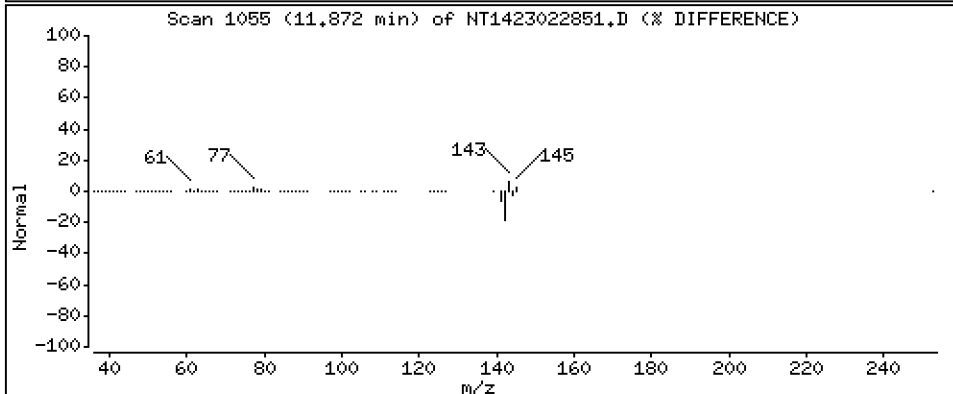
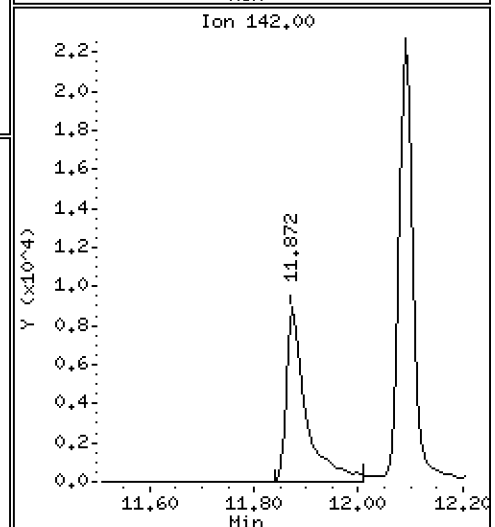
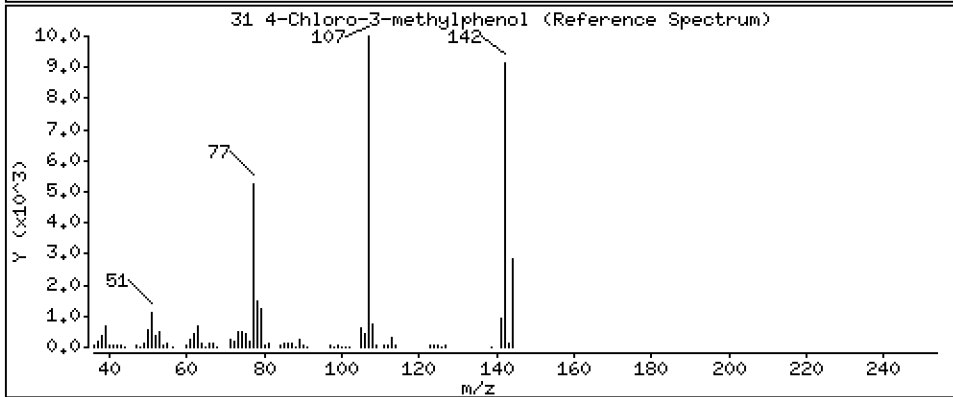
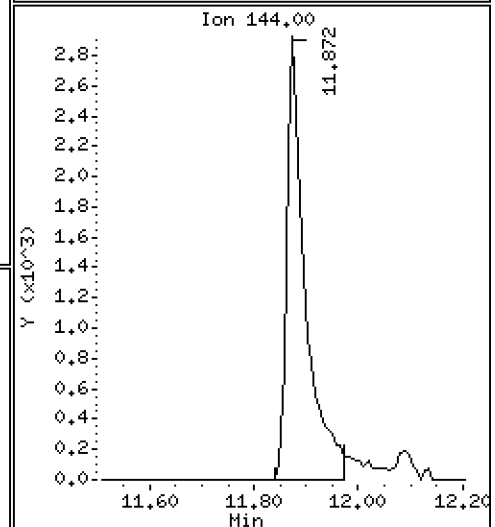
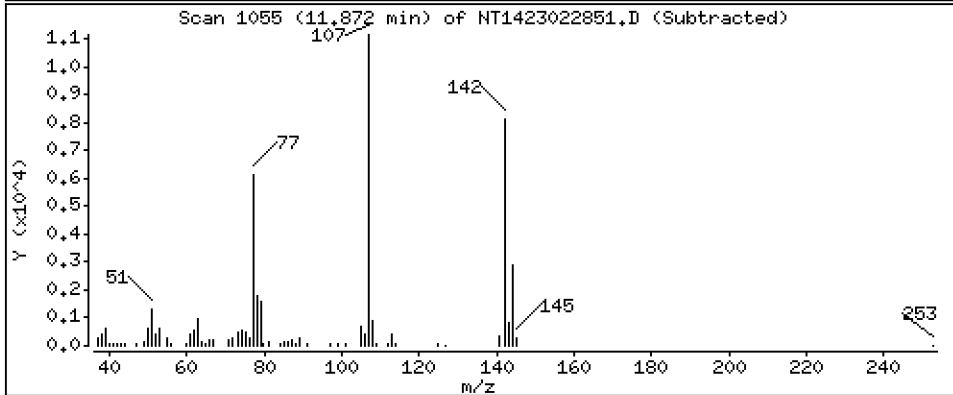
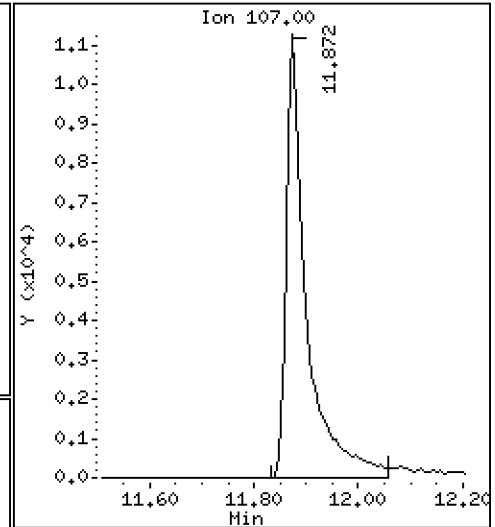
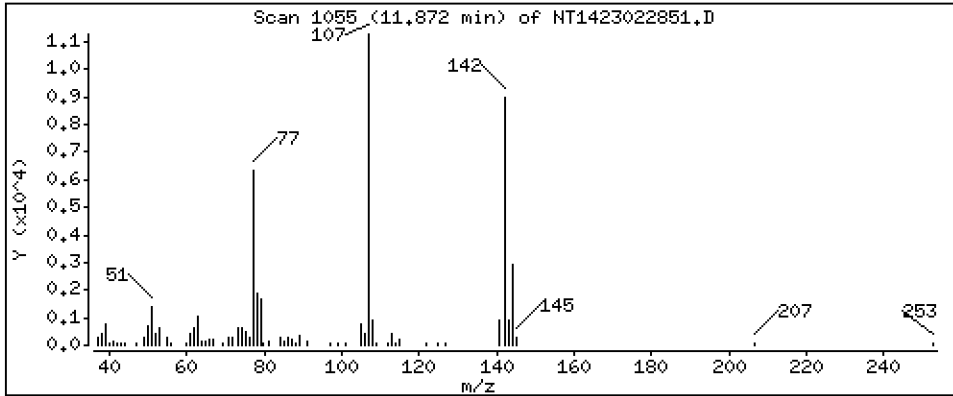
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

31 4-Chloro-3-methylphenol

Concentration: 0,9903 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

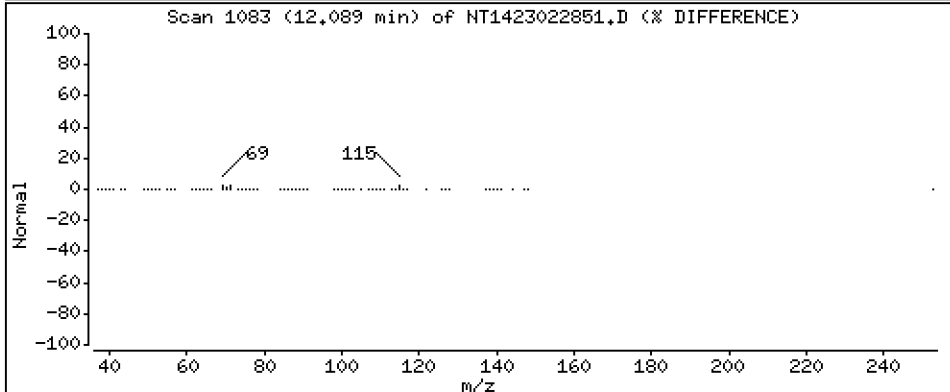
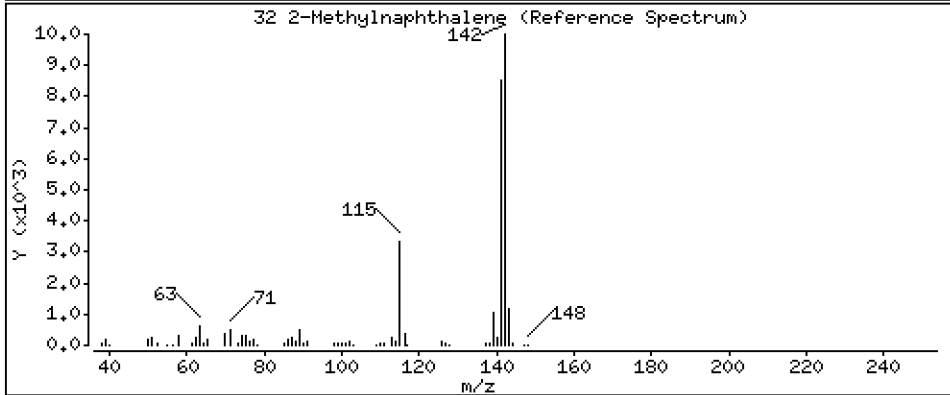
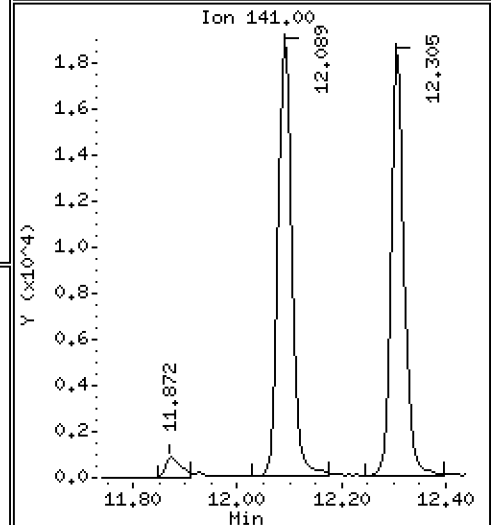
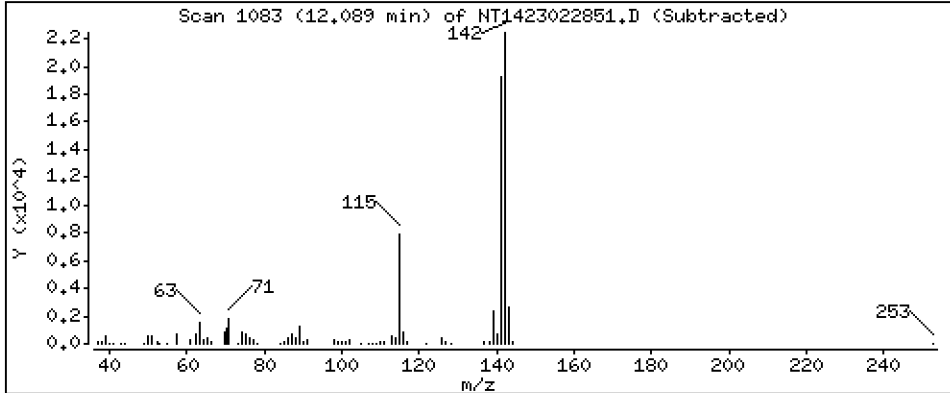
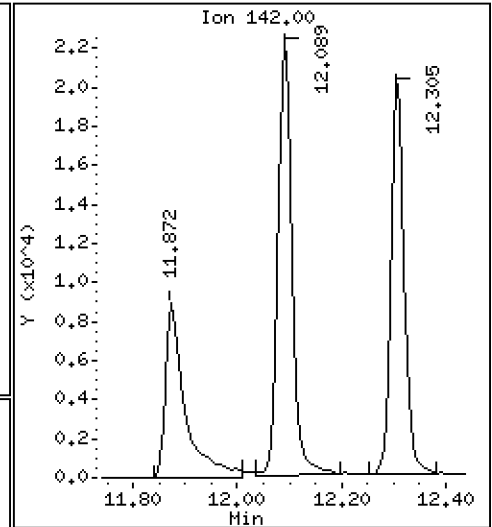
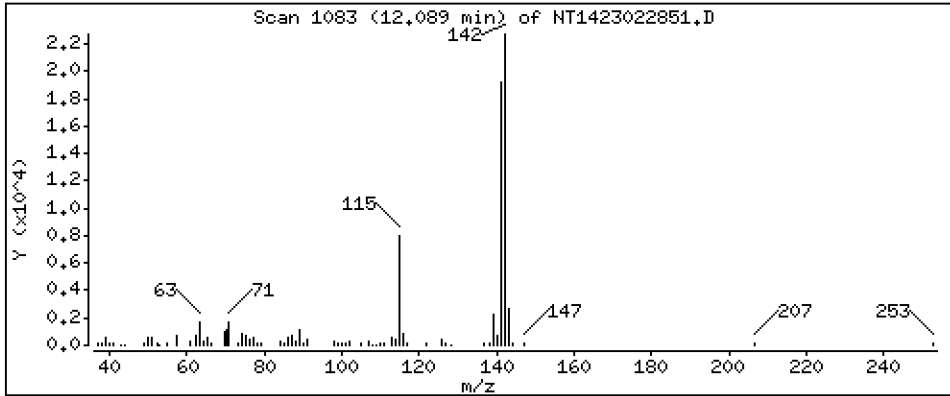
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 0,4960 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

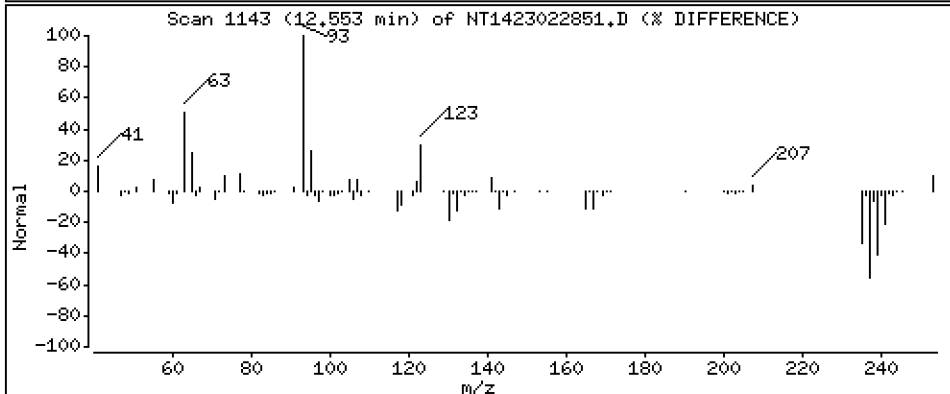
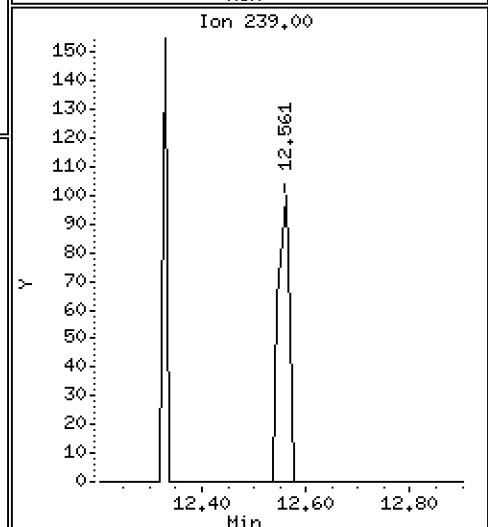
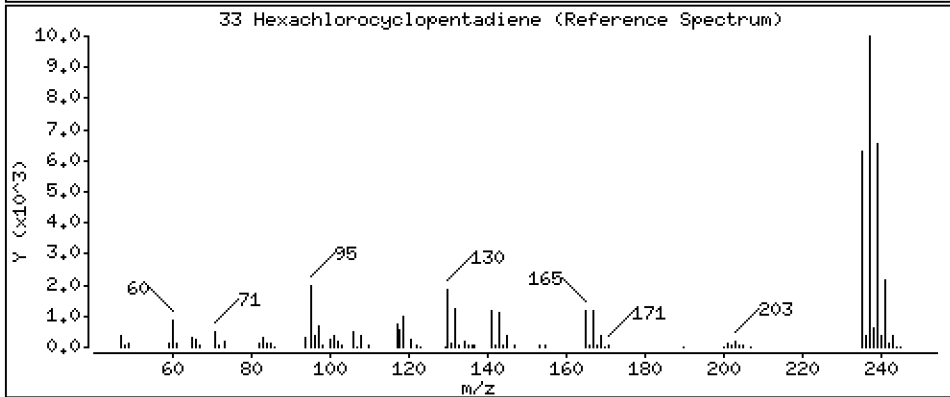
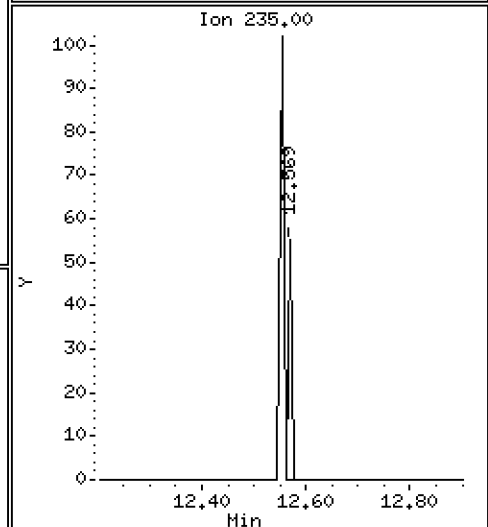
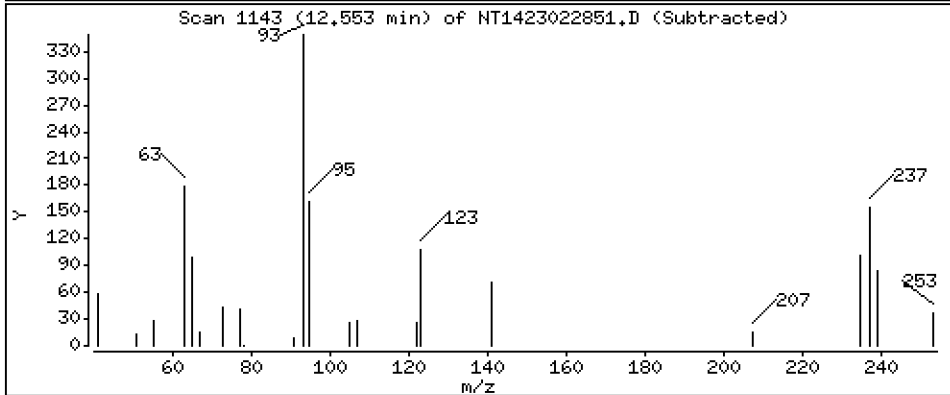
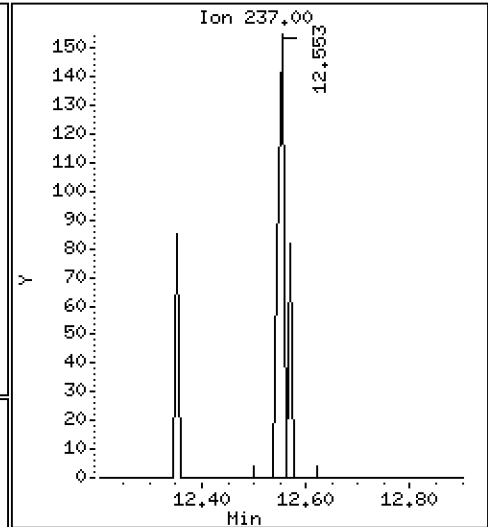
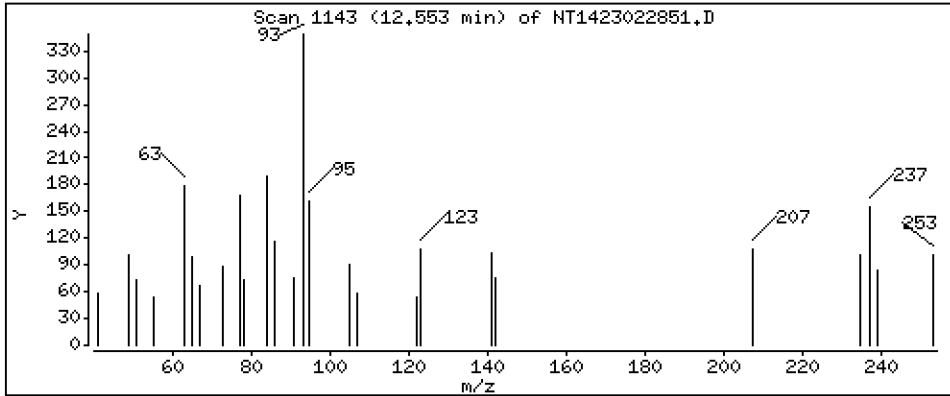
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

33 Hexachlorocyclopentadiene

Concentration: 0,006113 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

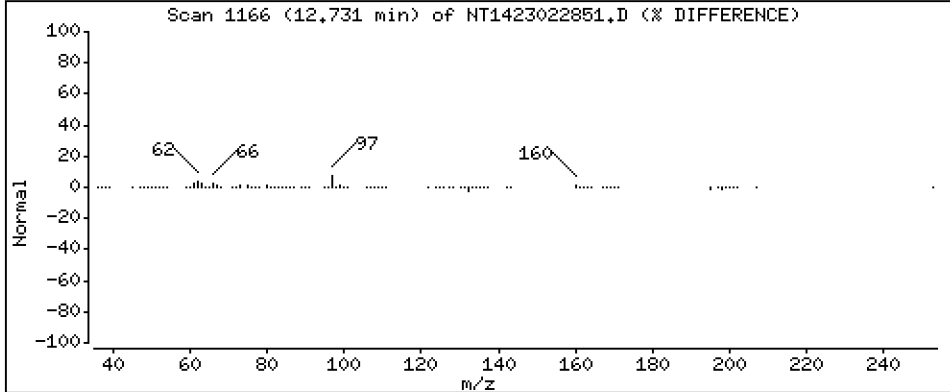
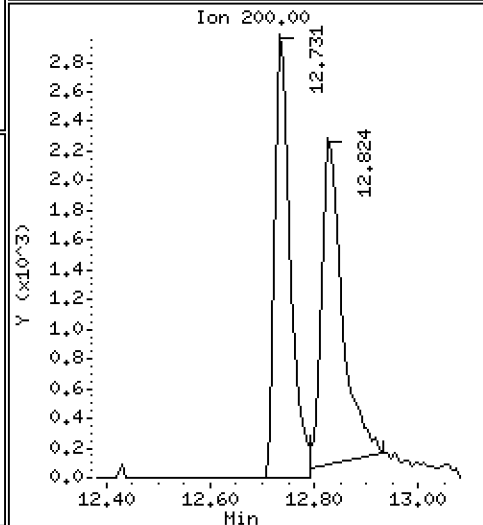
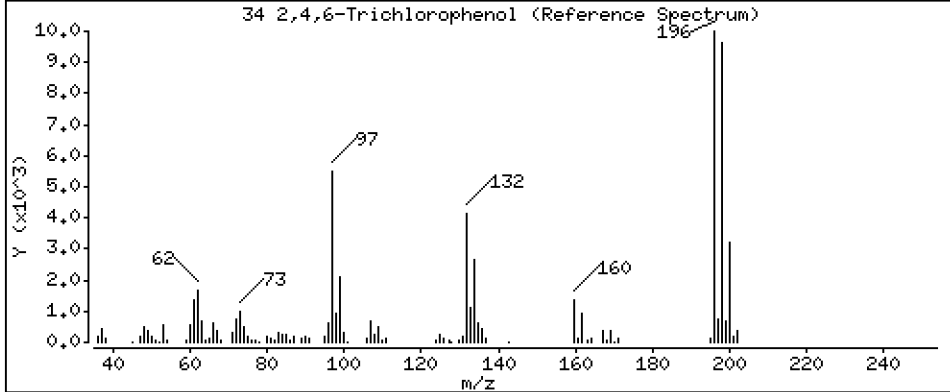
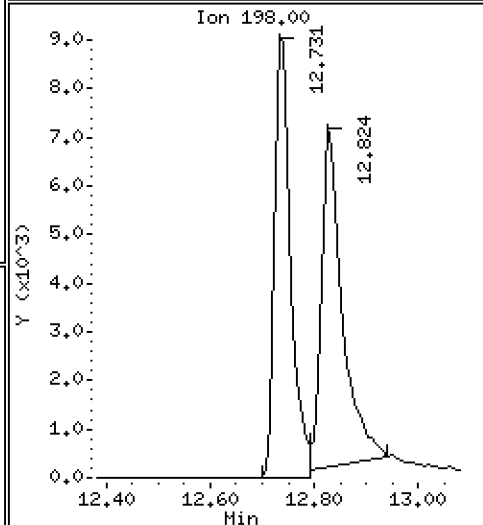
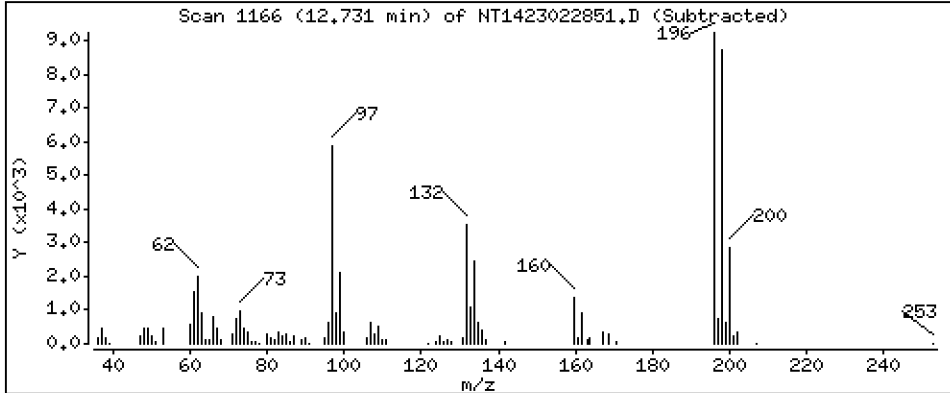
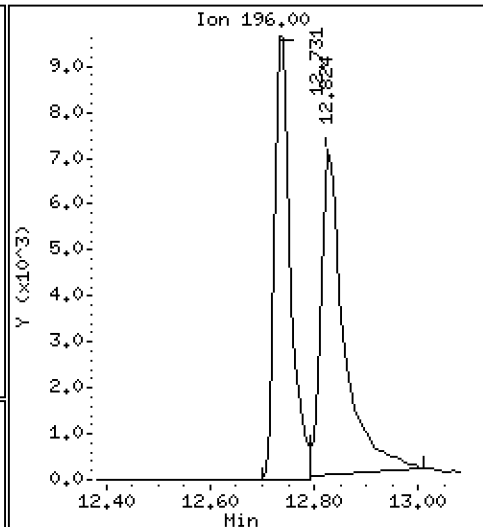
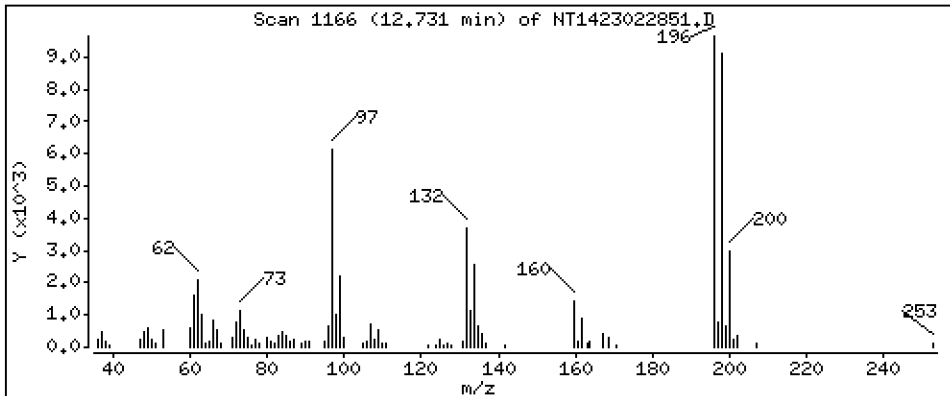
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

34 2,4,6-Trichlorophenol

Concentration: 0,9205 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

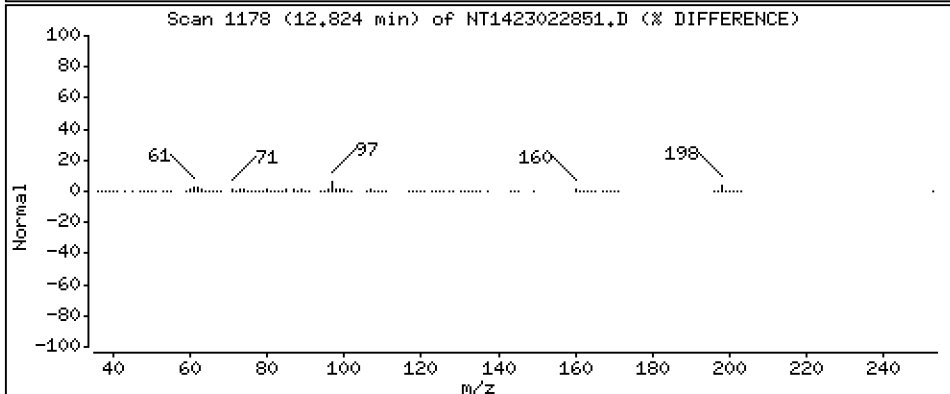
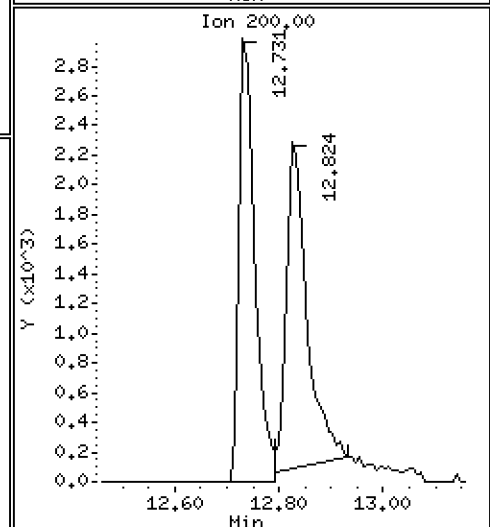
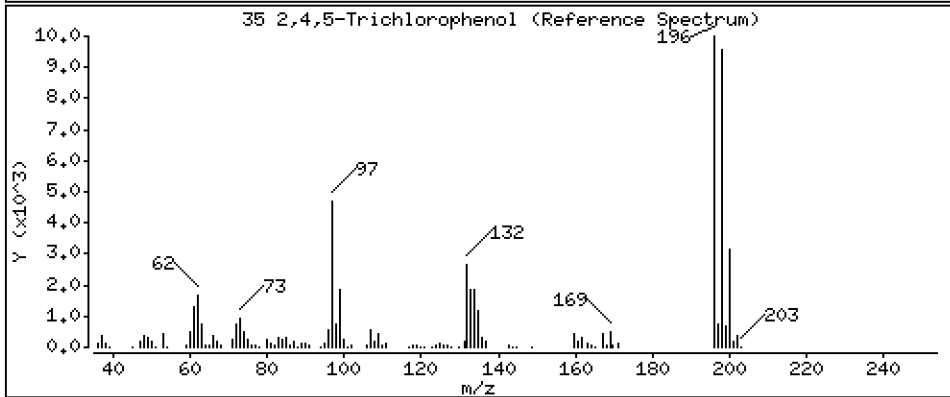
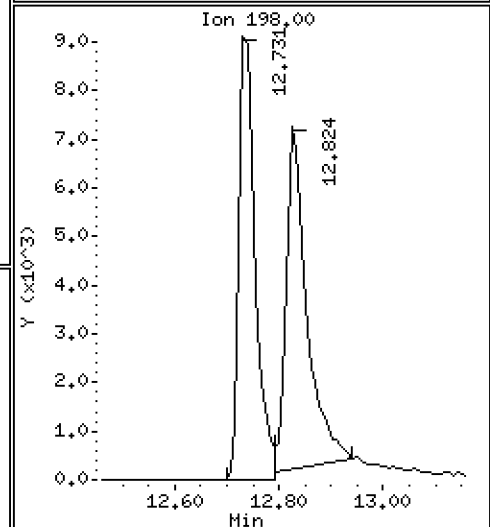
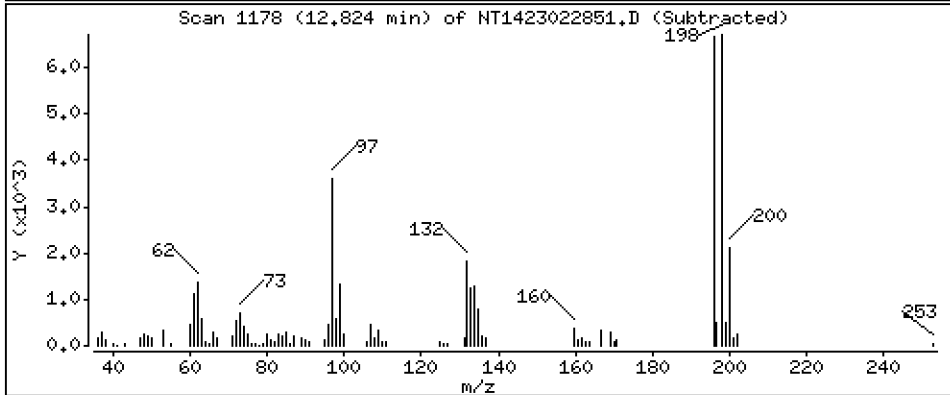
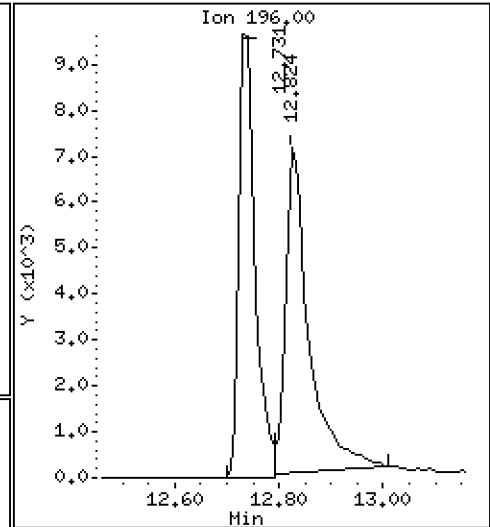
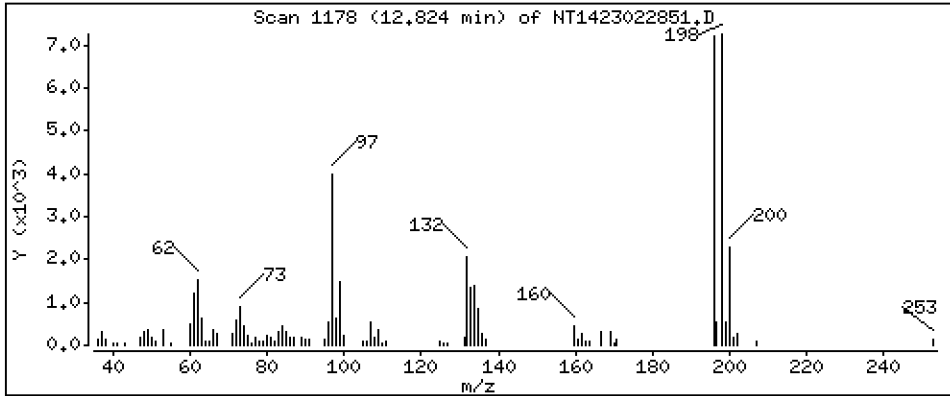
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

35 2,4,5-Trichlorophenol

Concentration: 0,9325 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

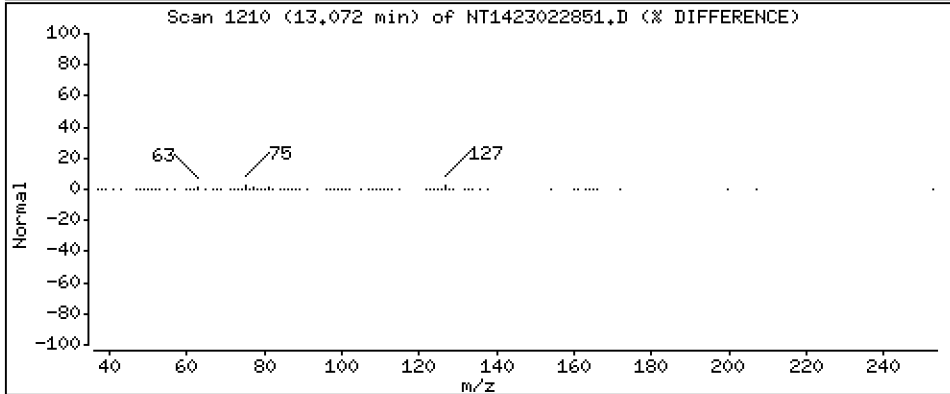
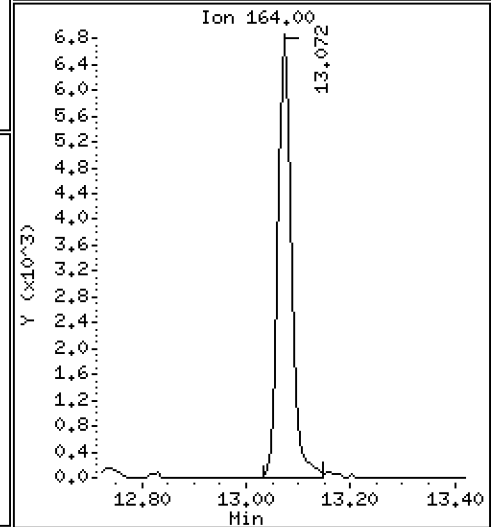
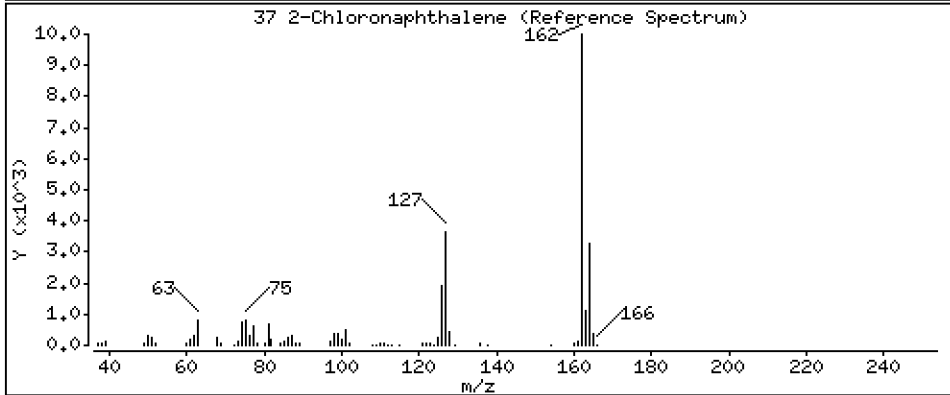
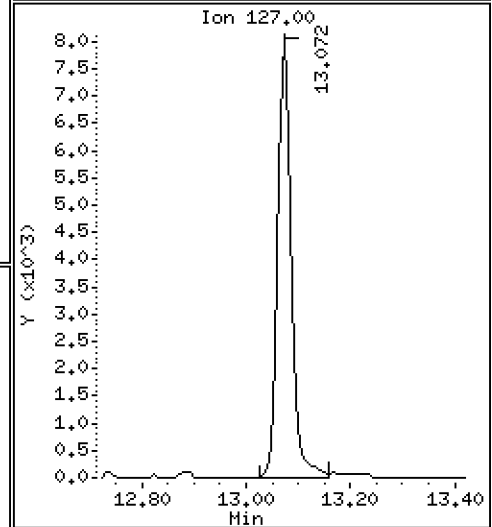
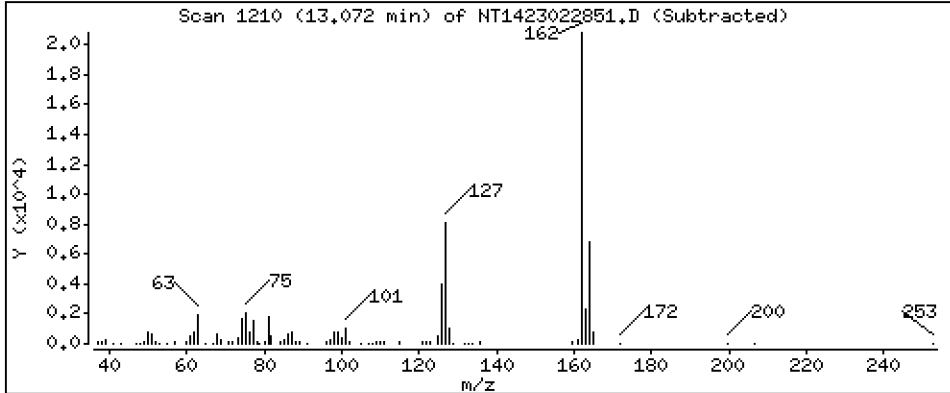
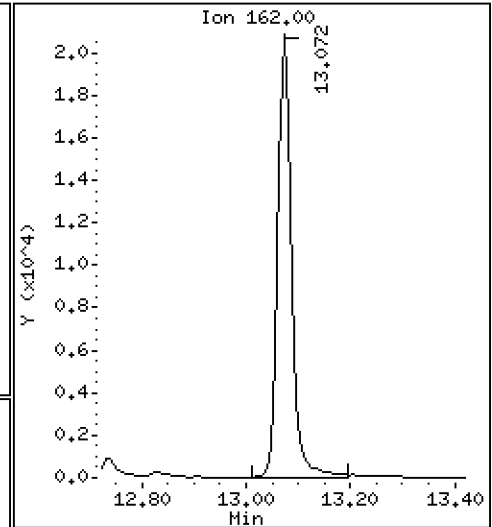
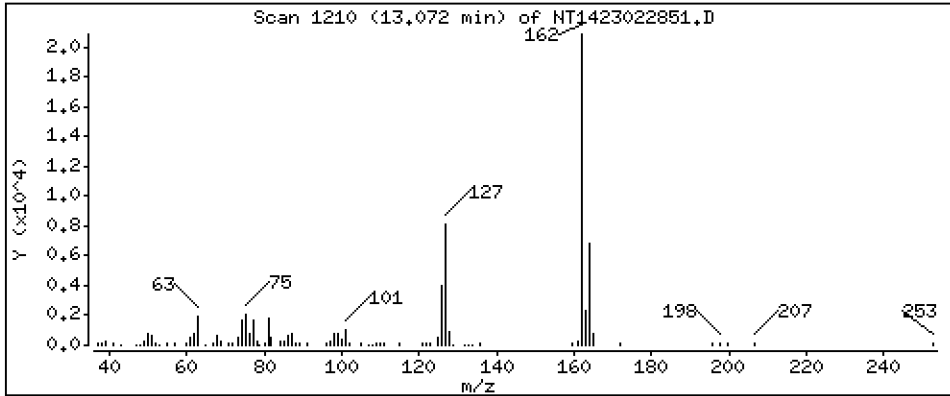
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

37 2-Chloronaphthalene

Concentration: 0,5208 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

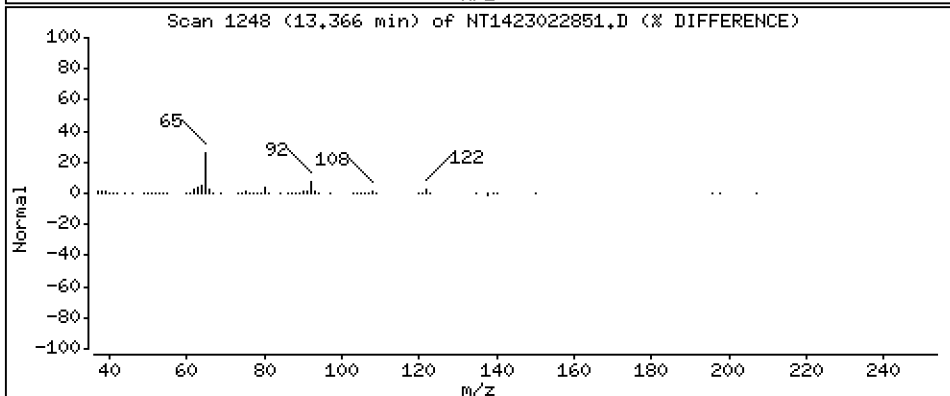
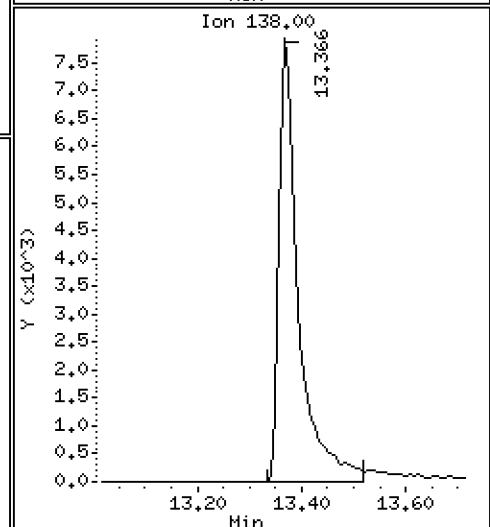
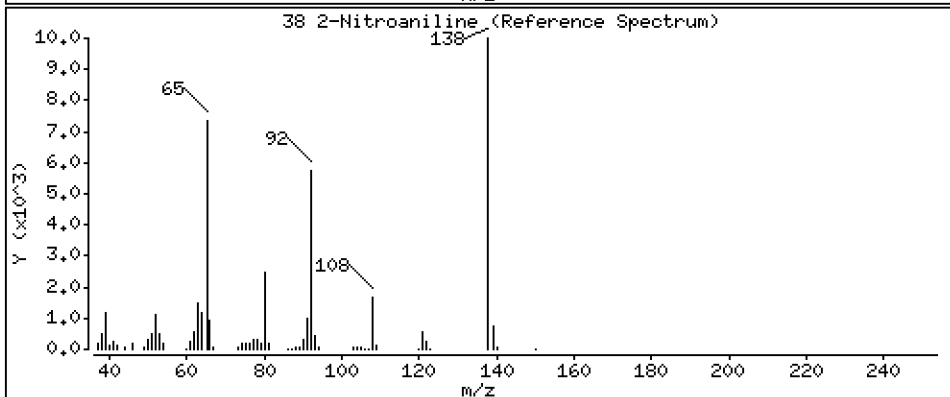
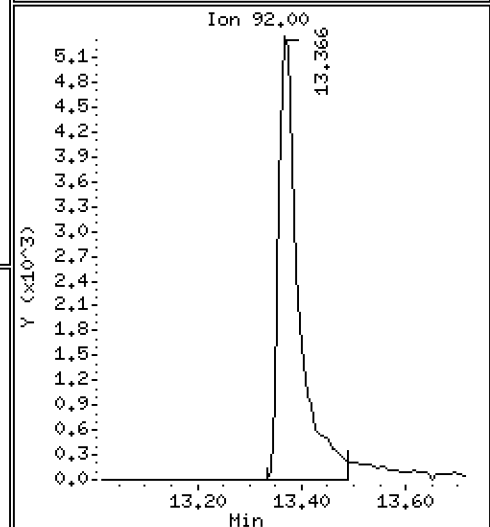
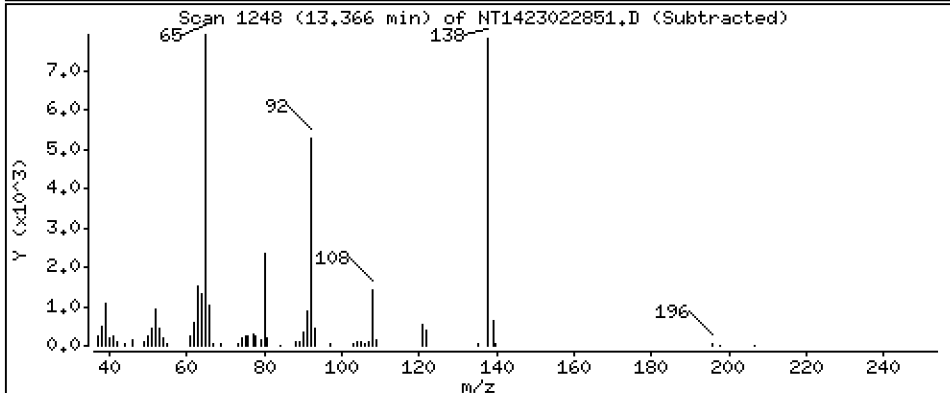
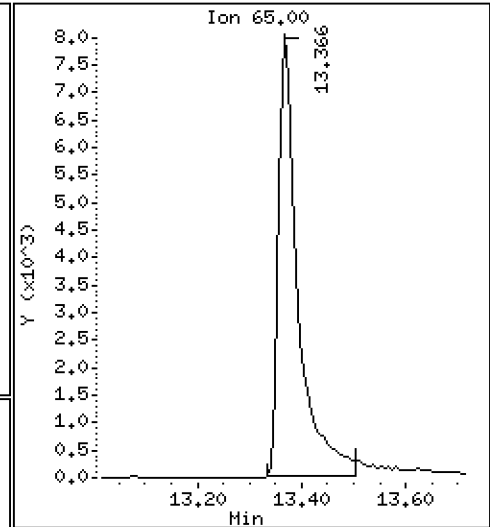
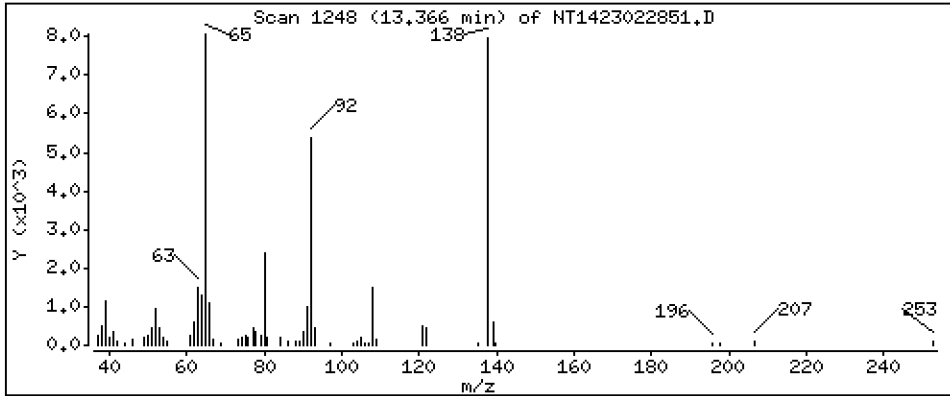
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

38 2-Nitroaniline

Concentration: 1,095 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

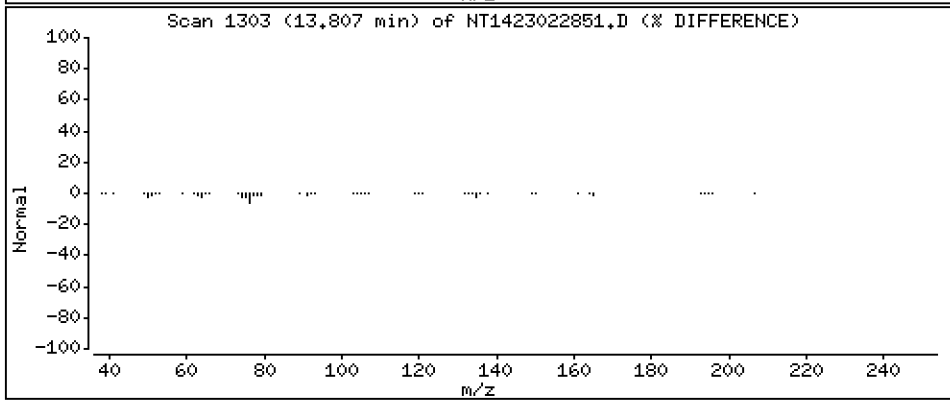
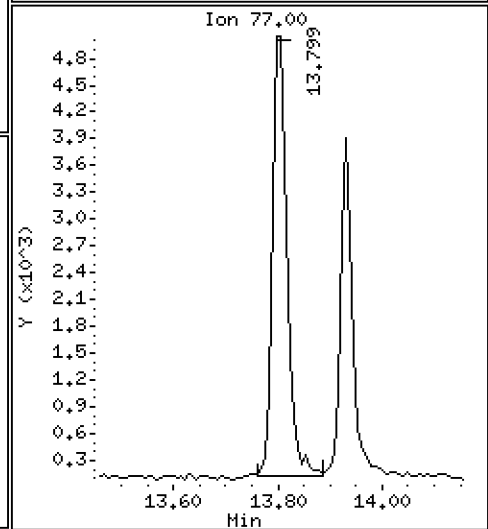
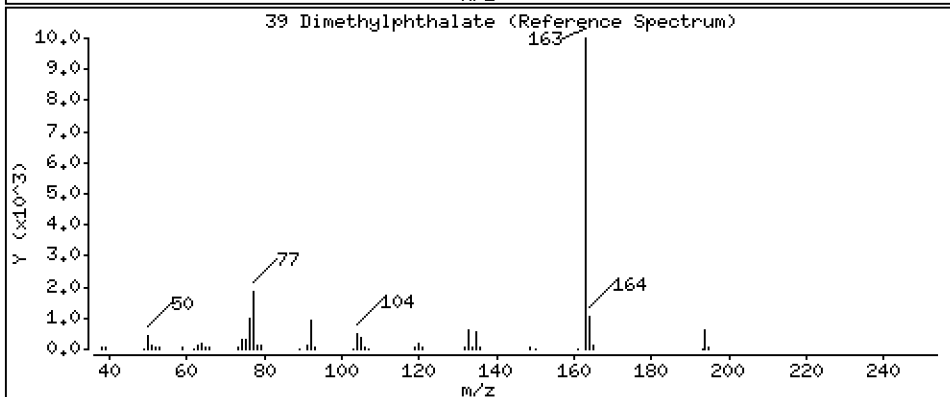
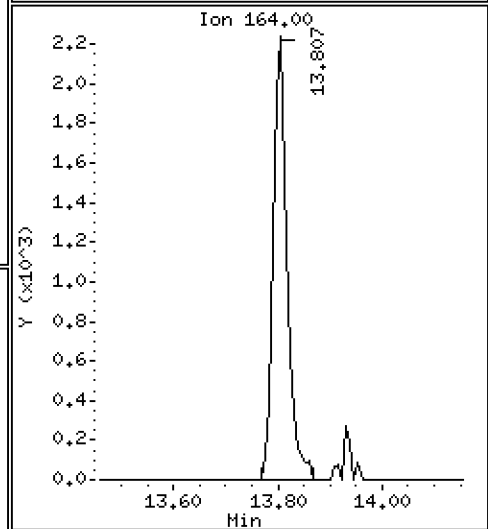
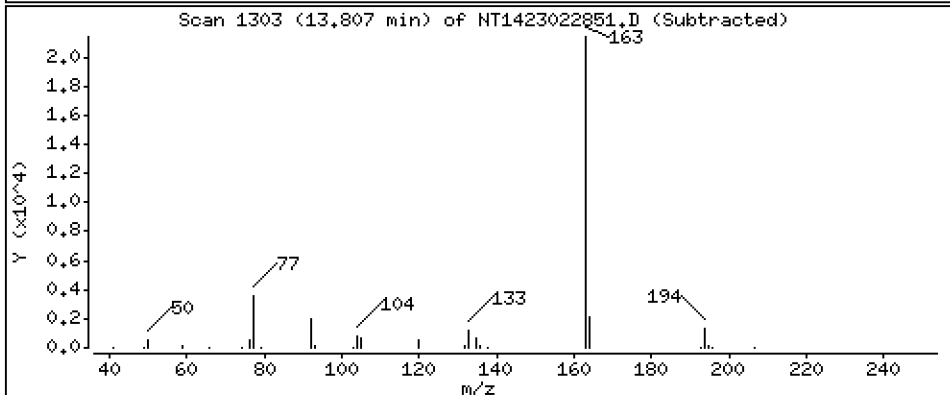
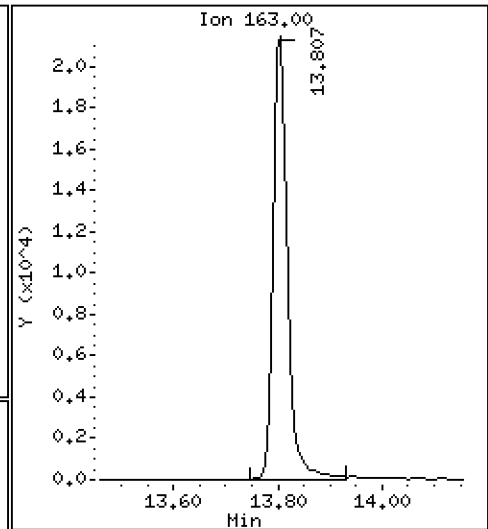
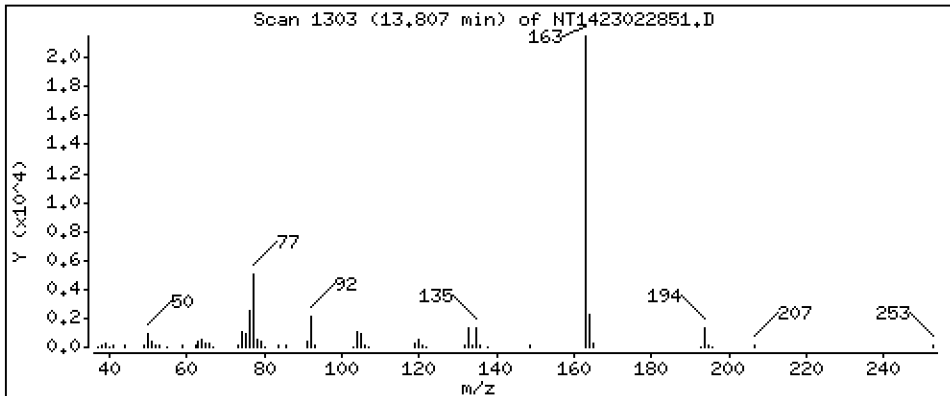
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

39 Dimethylphthalate

Concentration: 0.5564 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

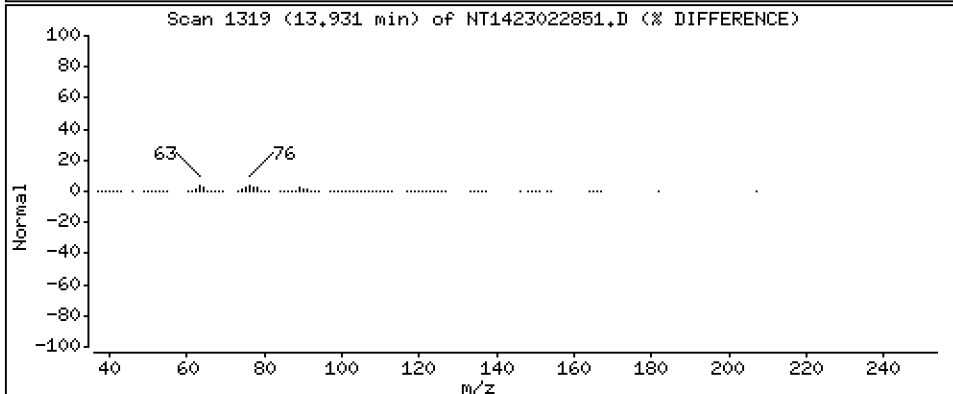
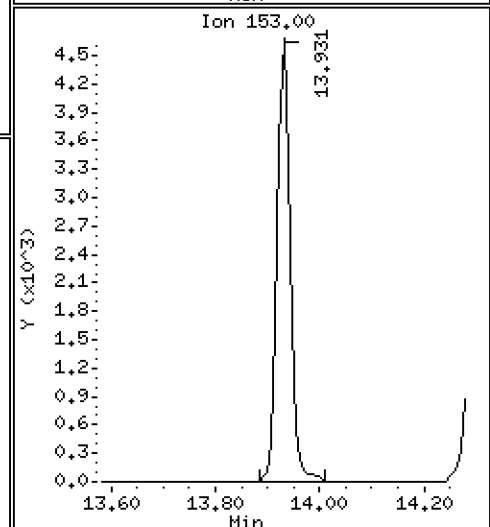
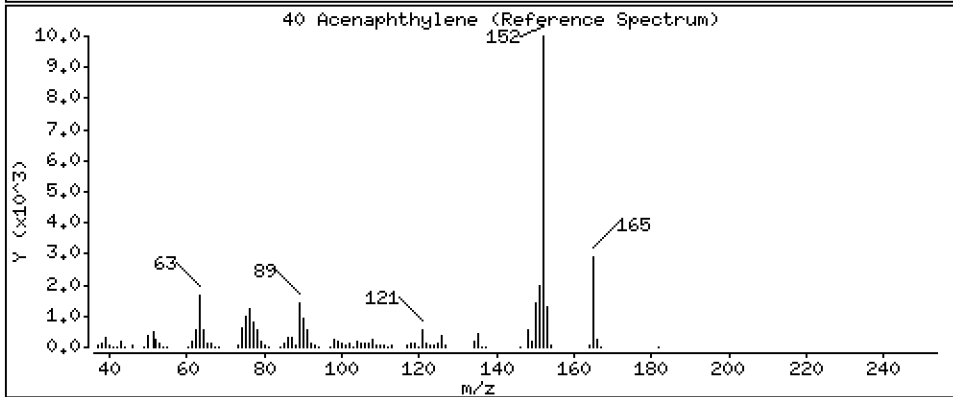
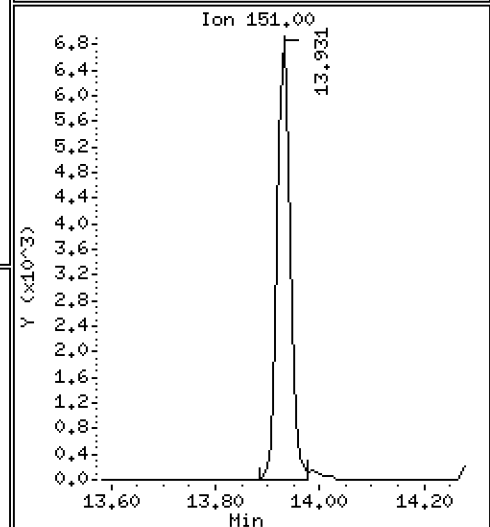
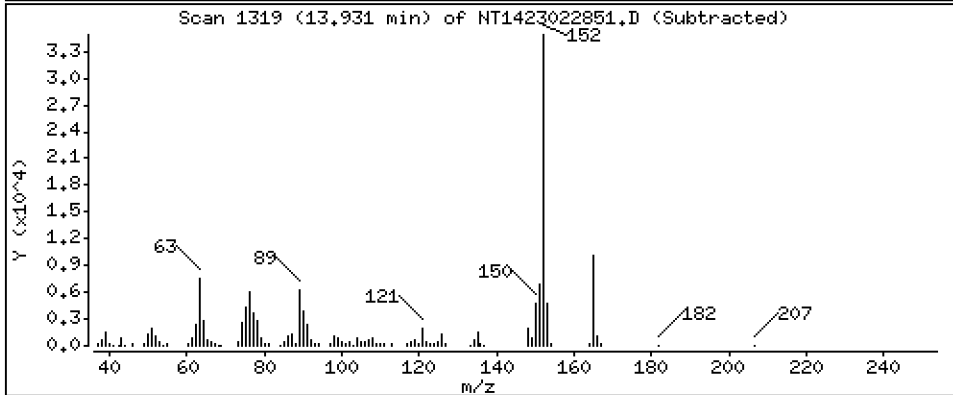
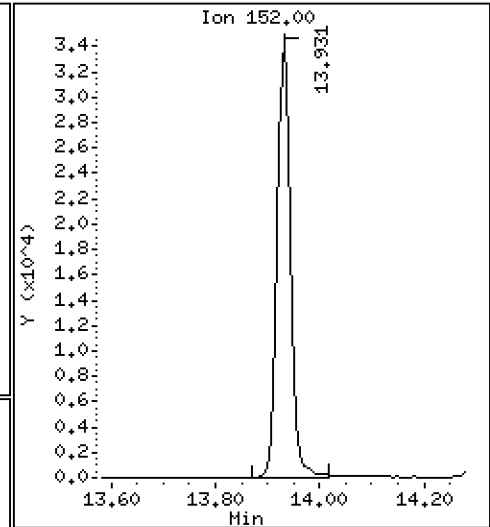
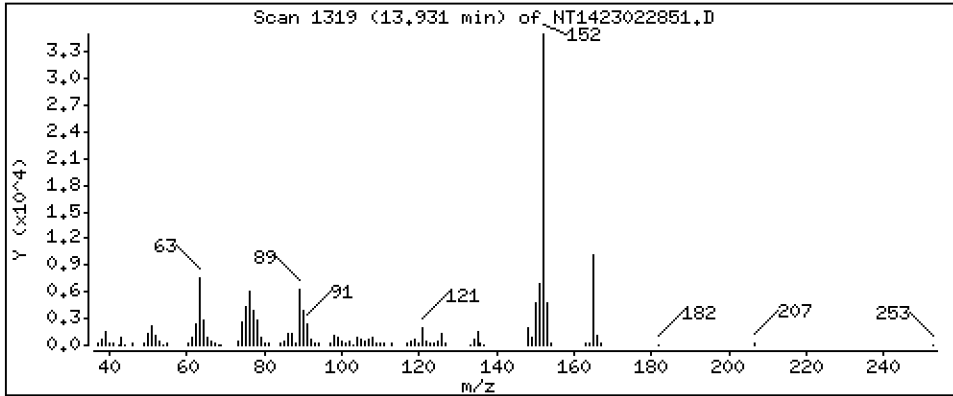
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 0,5661 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

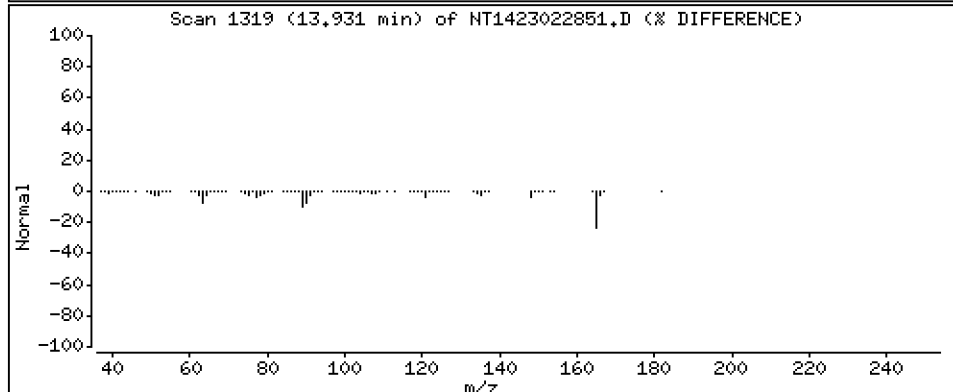
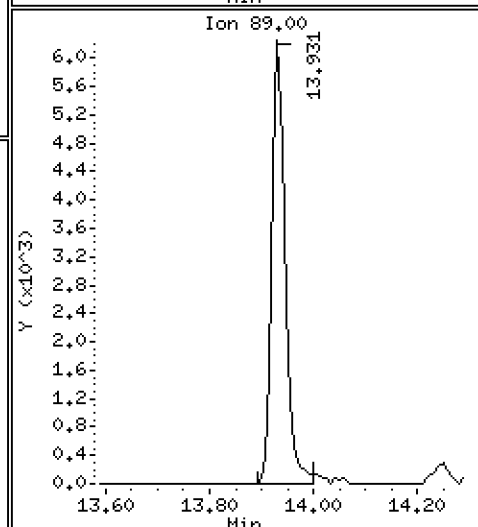
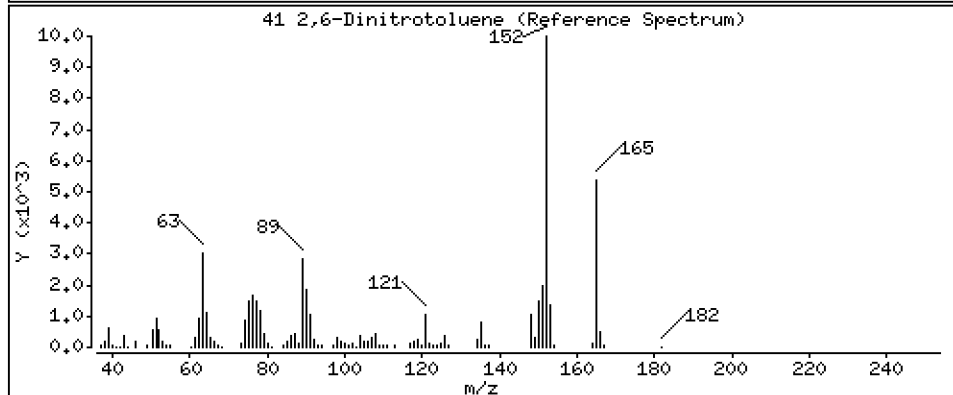
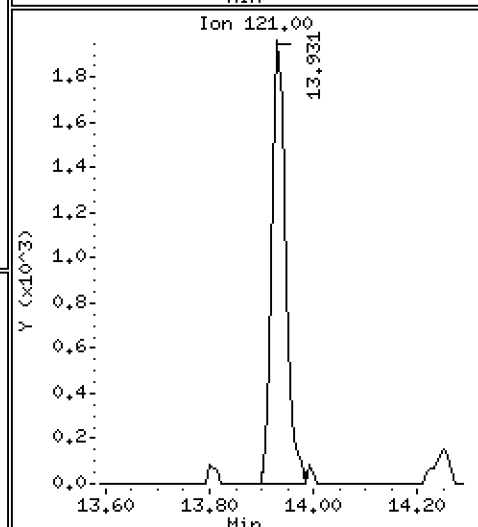
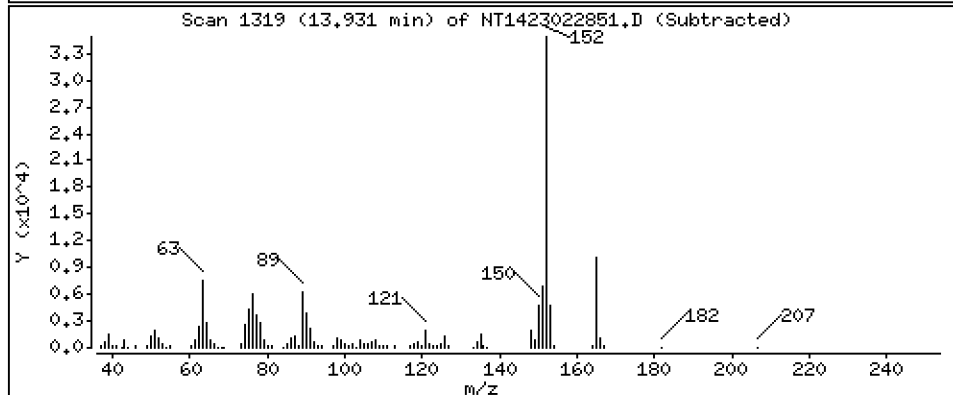
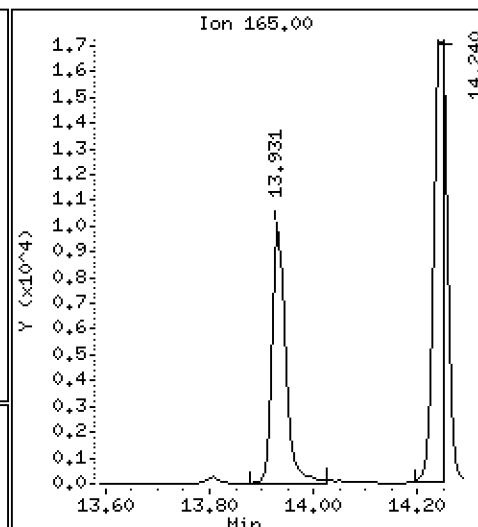
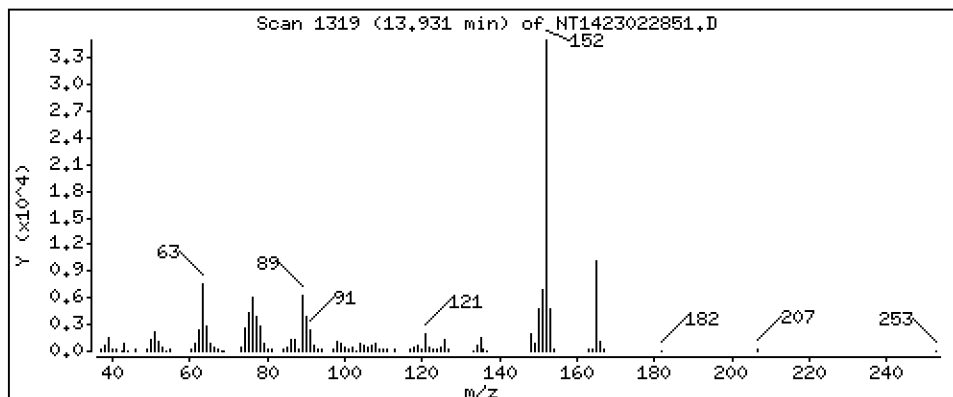
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

41 2,6-Dinitrotoluene

Concentration: 1.034 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

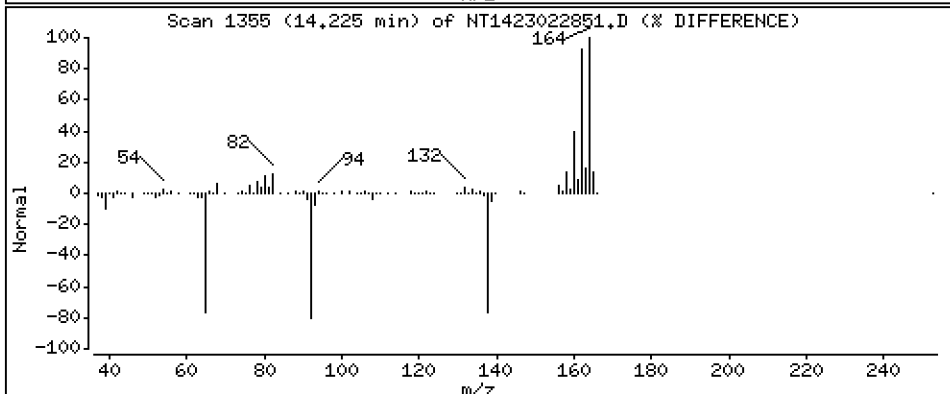
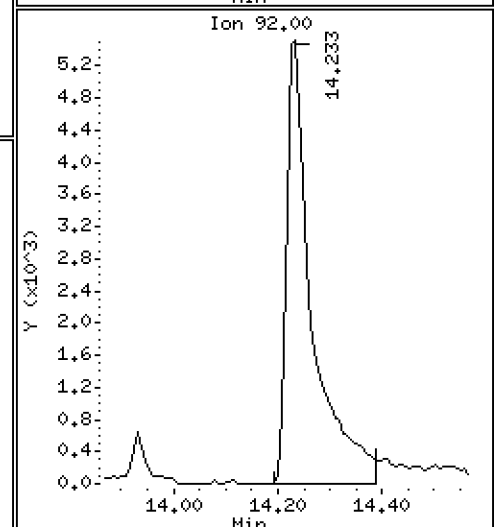
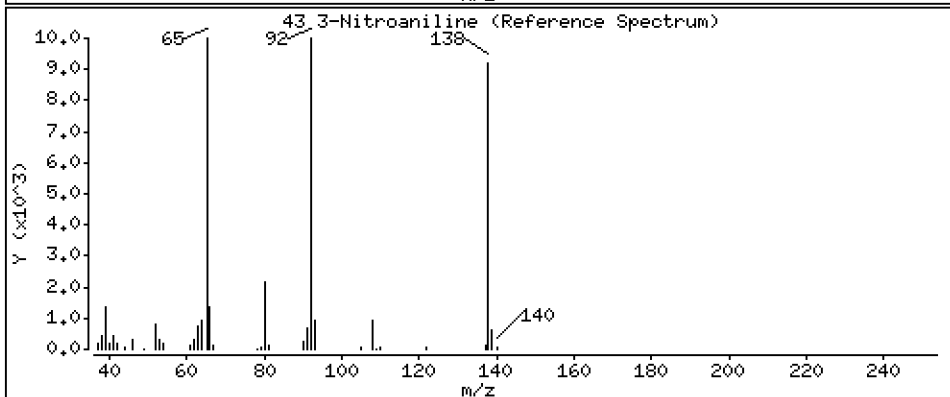
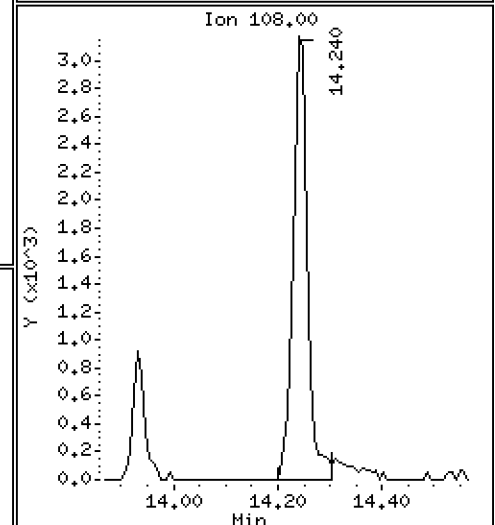
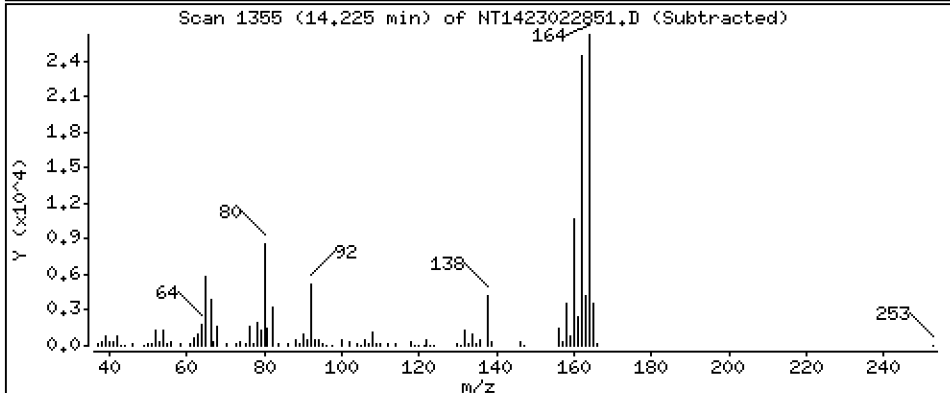
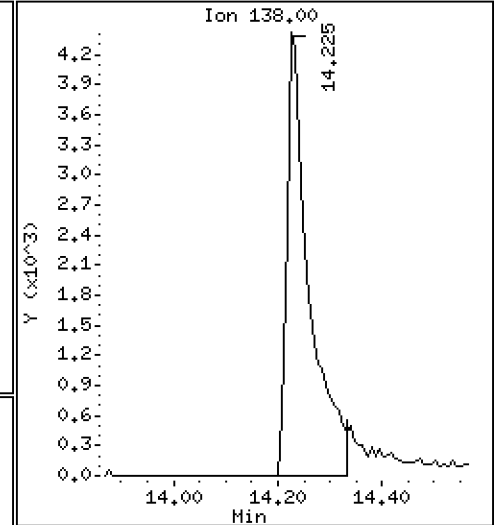
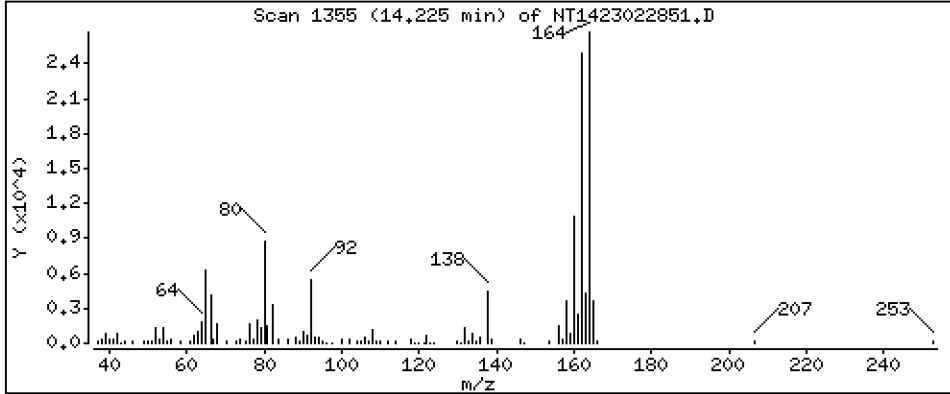
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

43 3-Nitroaniline

Concentration: 0,7771 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

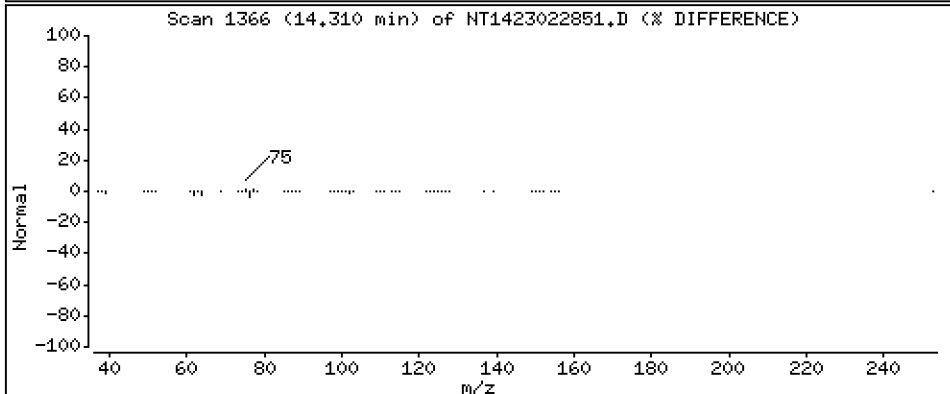
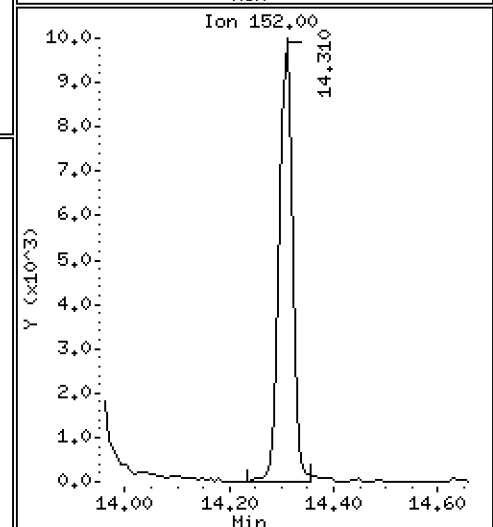
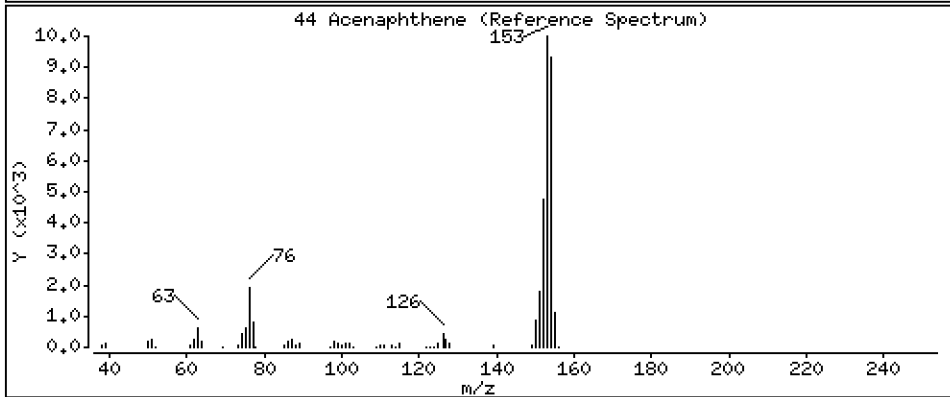
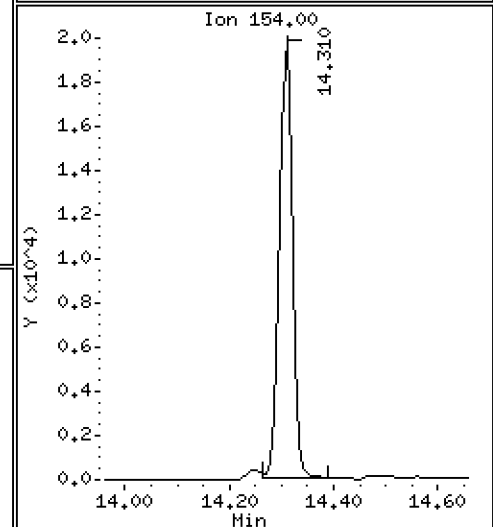
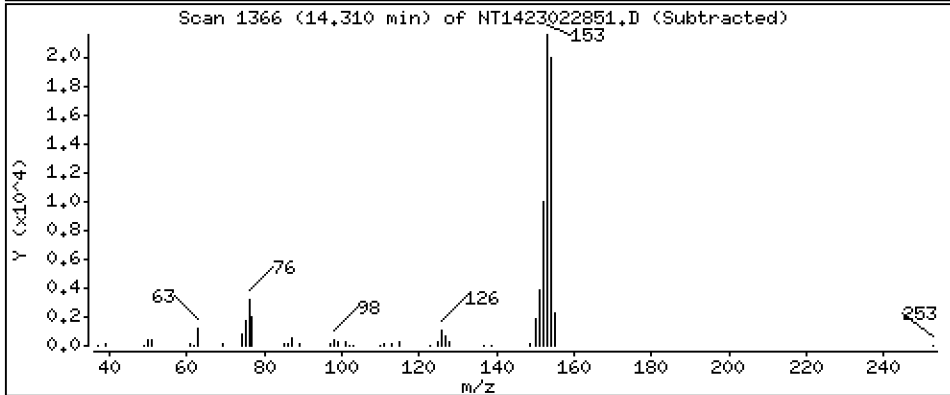
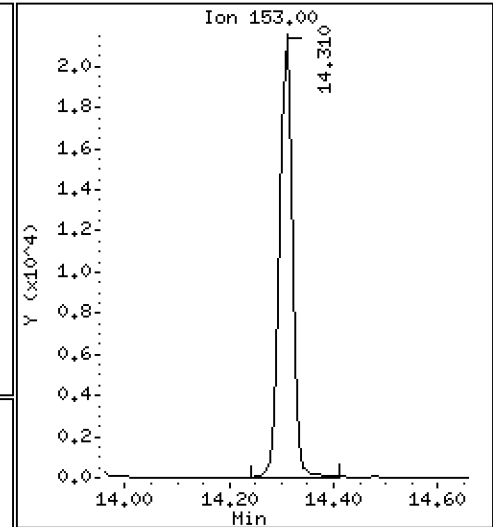
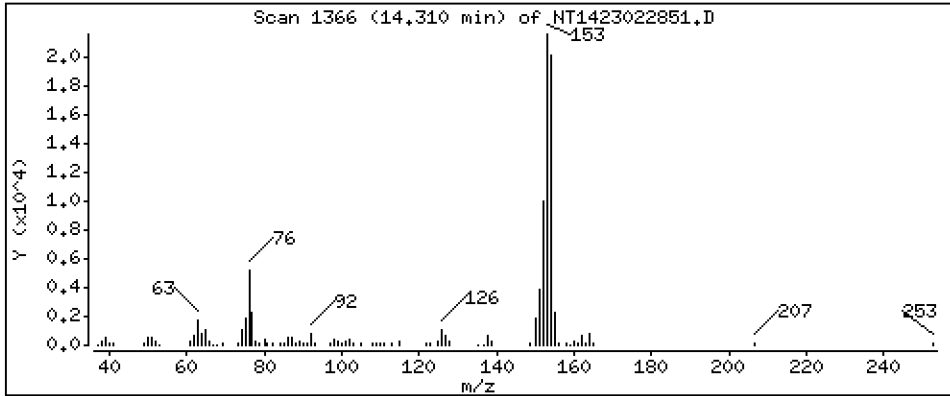
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 0,5300 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

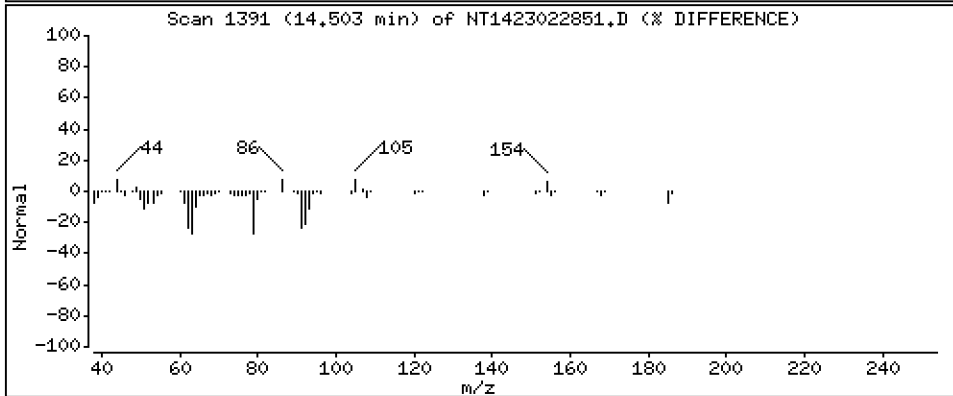
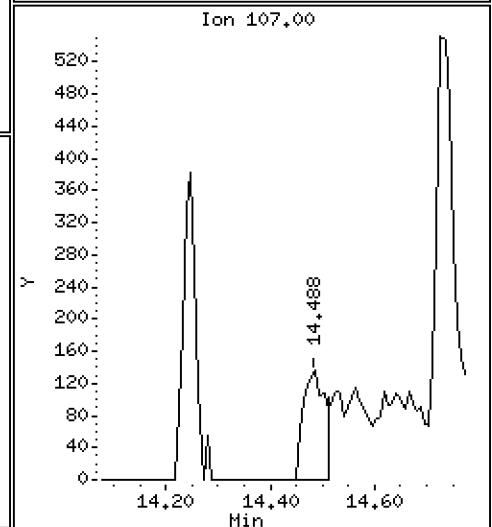
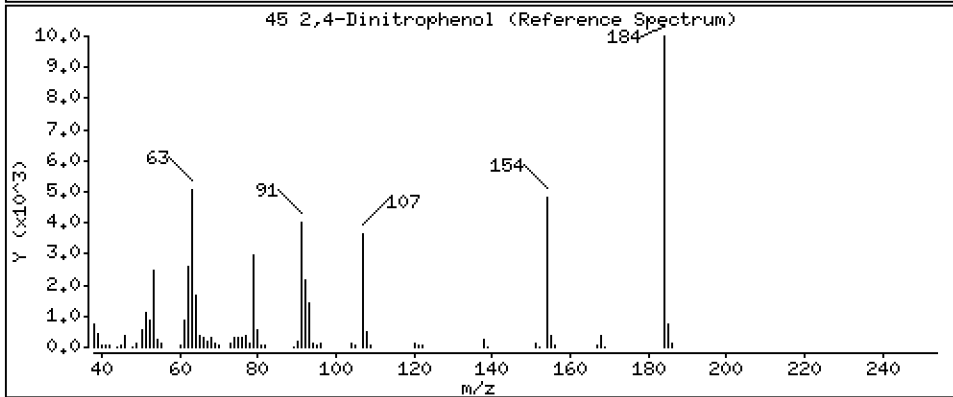
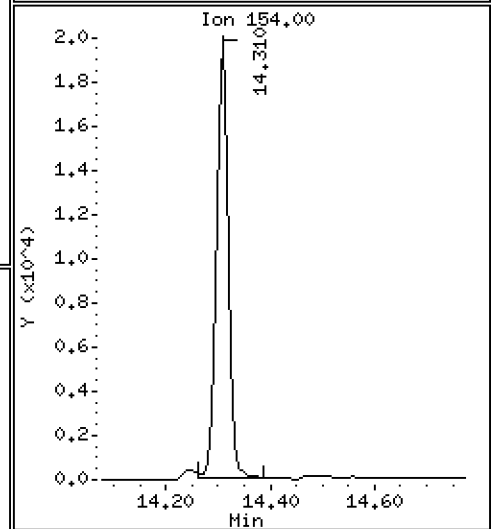
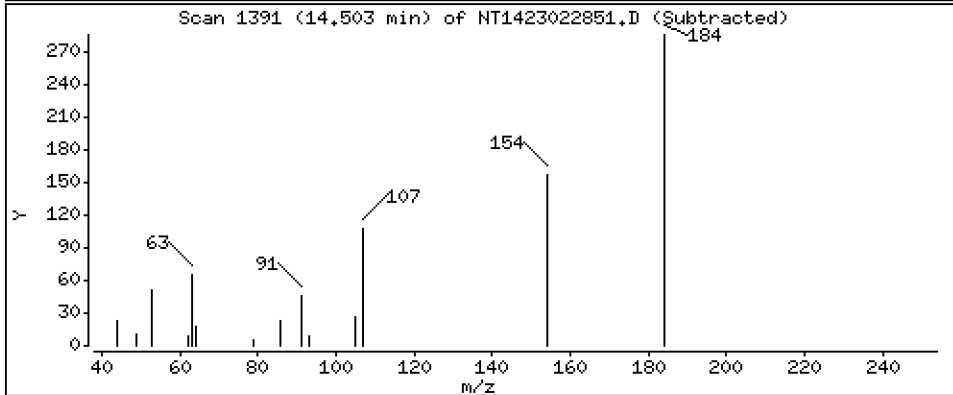
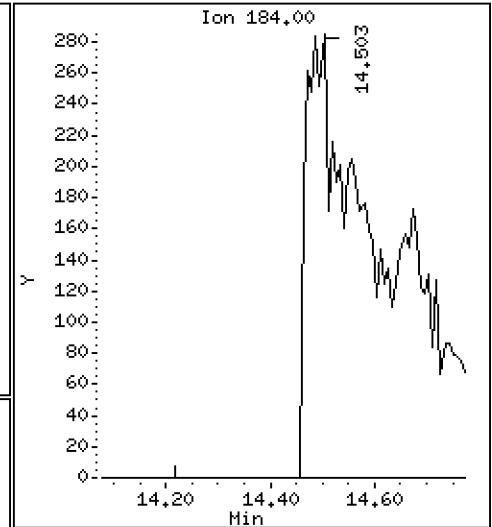
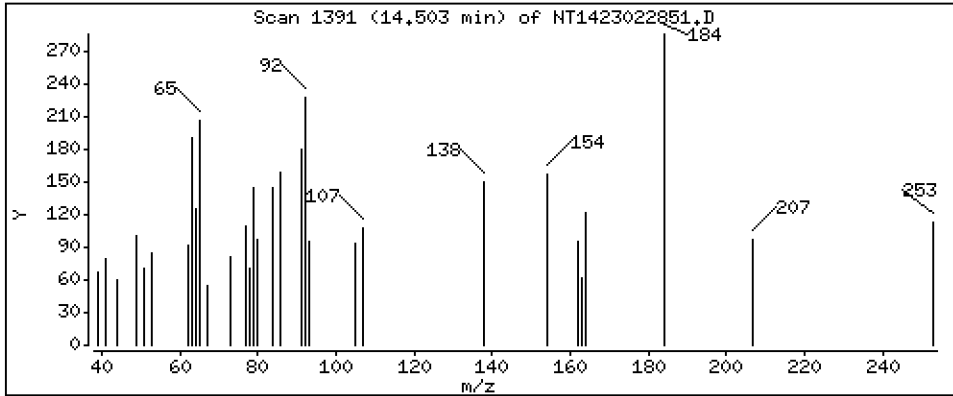
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

45 2,4-Dinitrophenol

Concentration: 0,3632 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

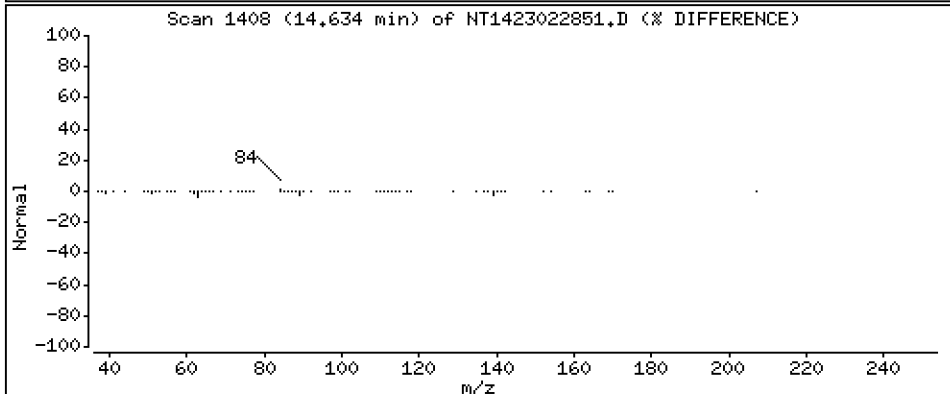
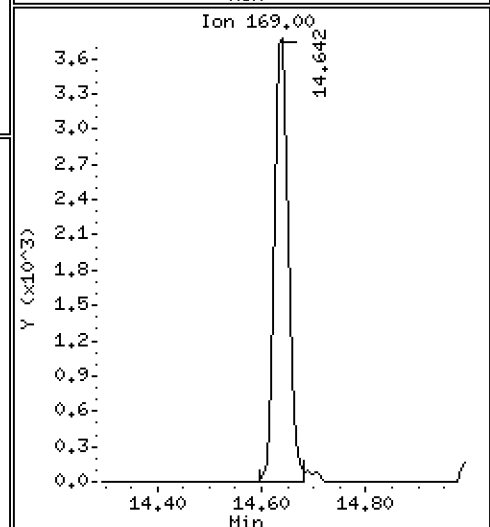
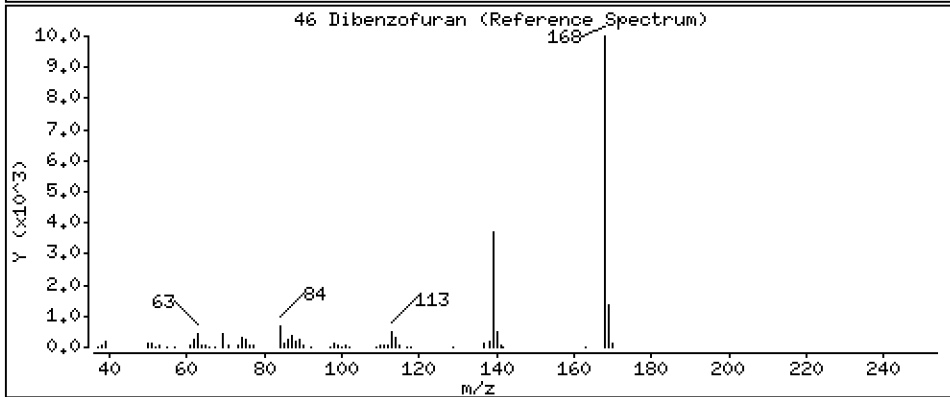
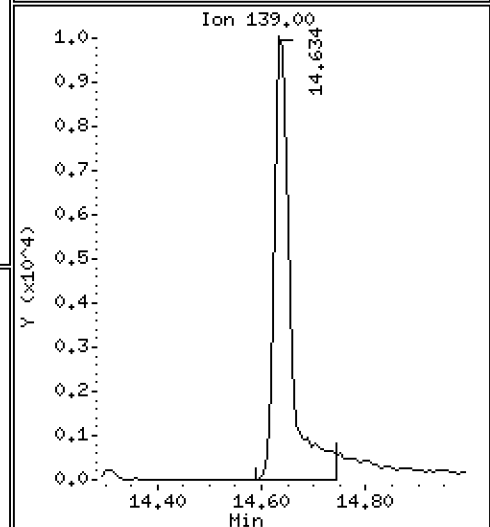
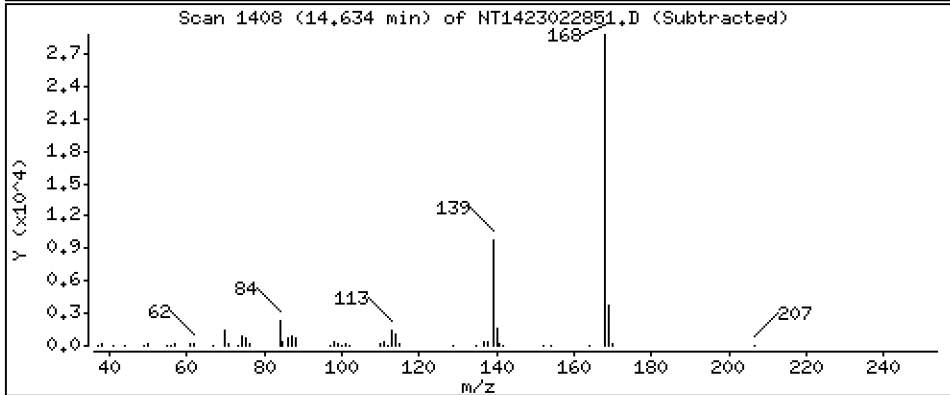
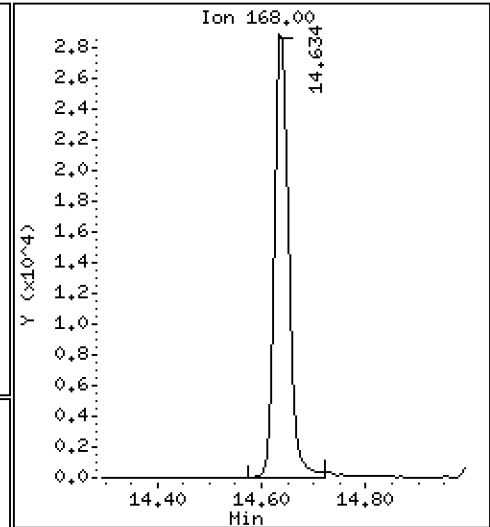
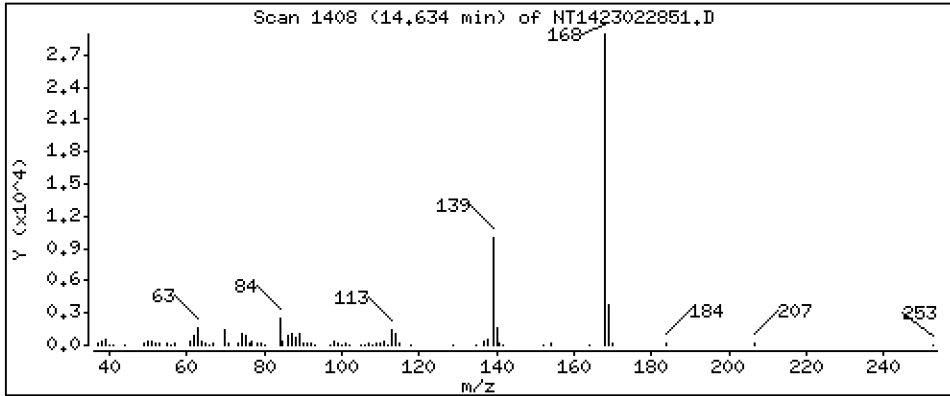
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 0,5032 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

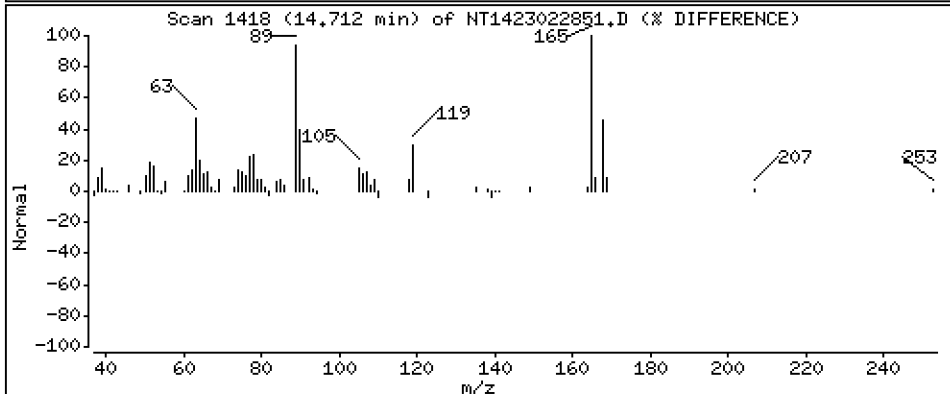
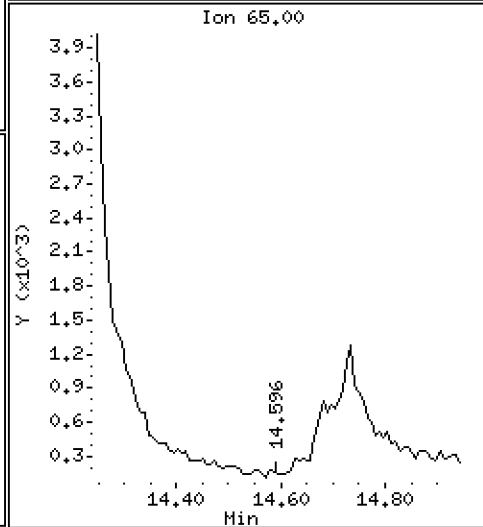
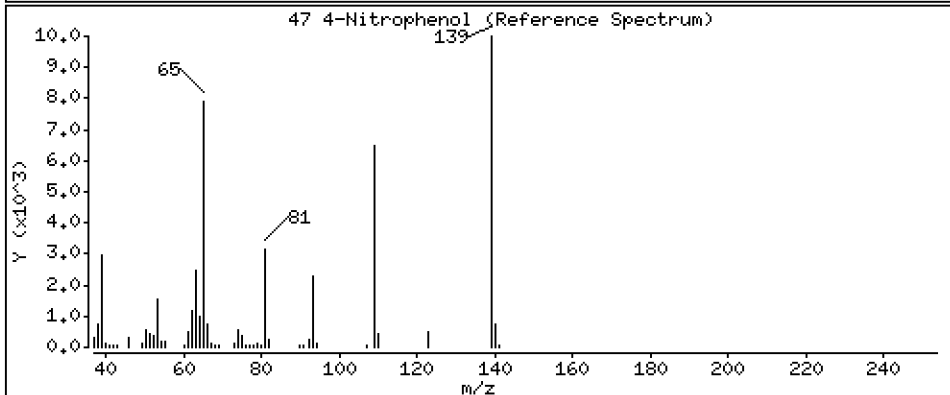
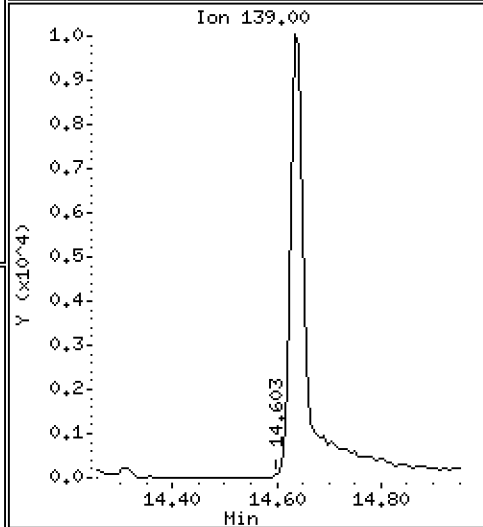
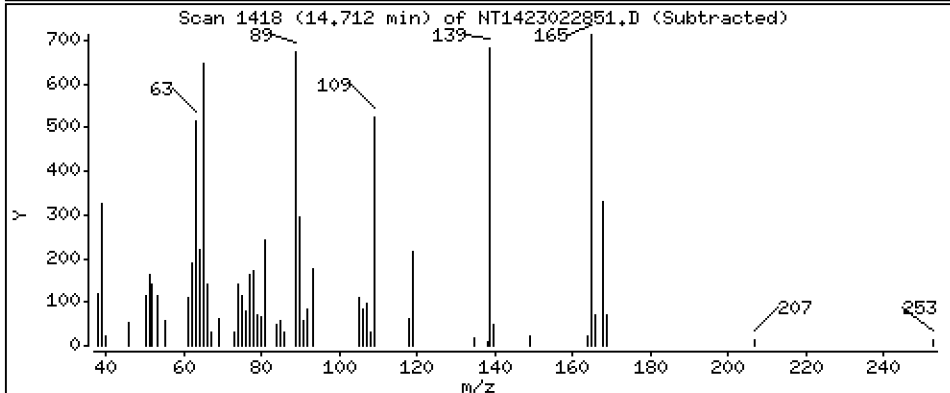
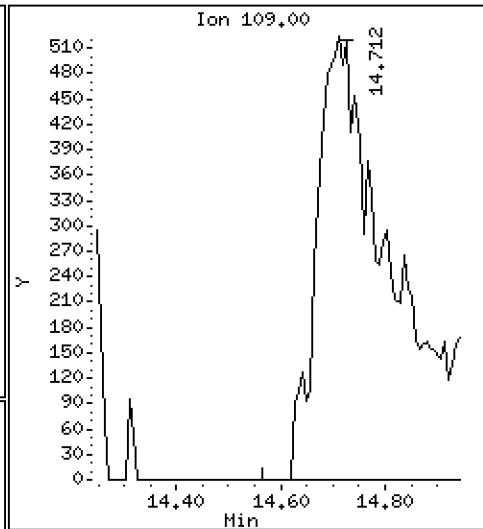
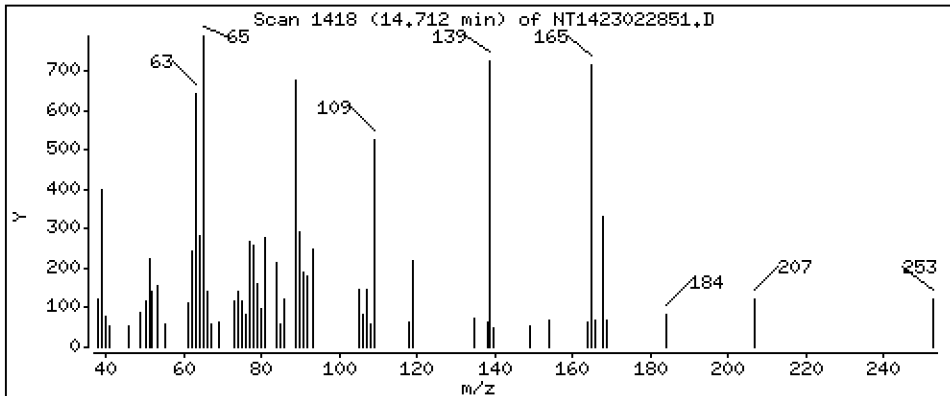
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

47 4-Nitrophenol

Concentration: 0,8288 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

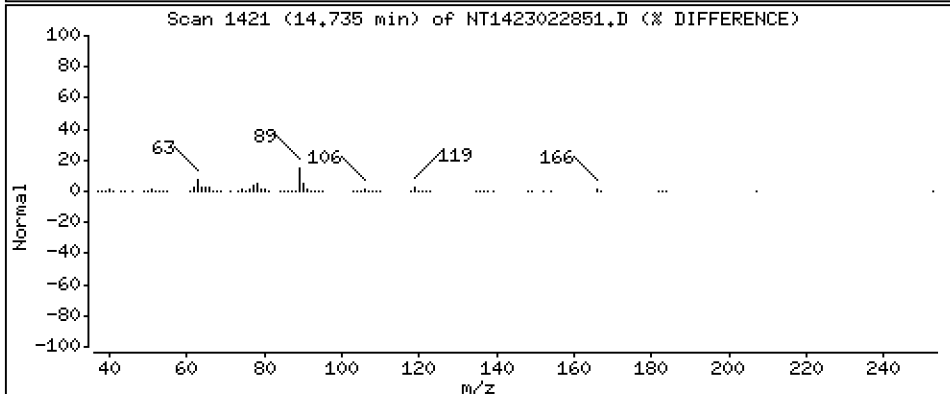
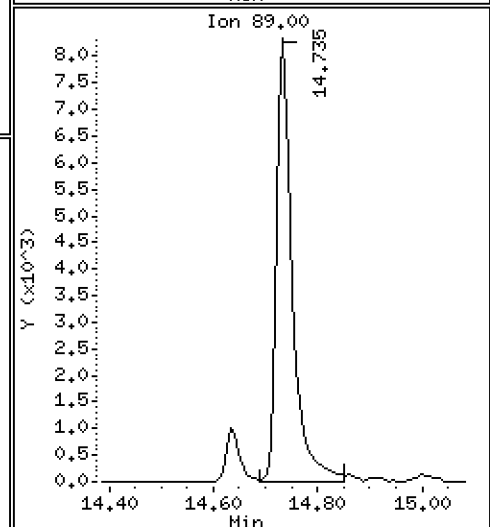
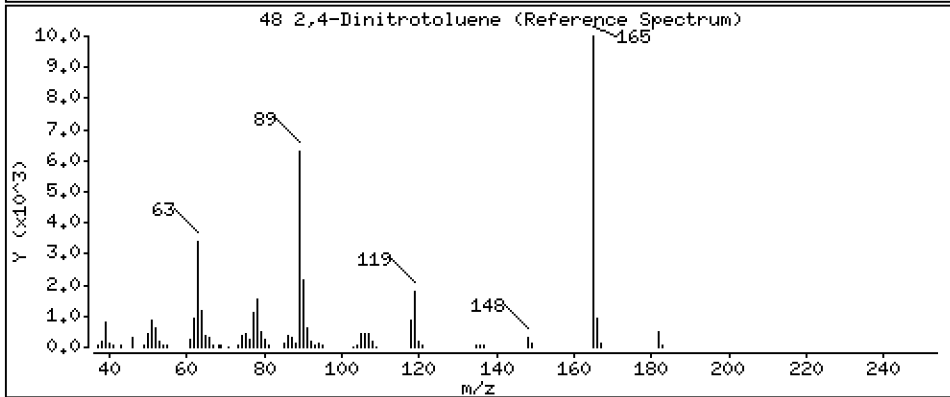
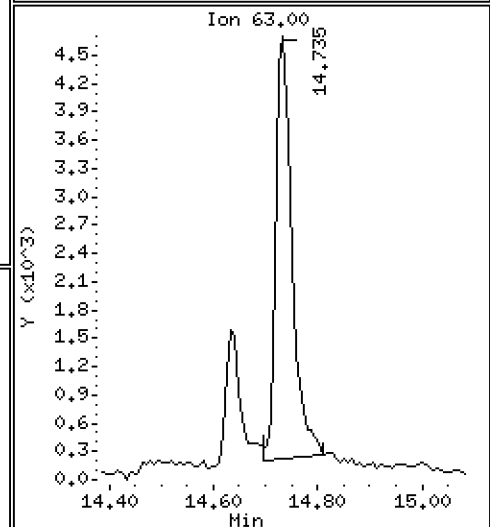
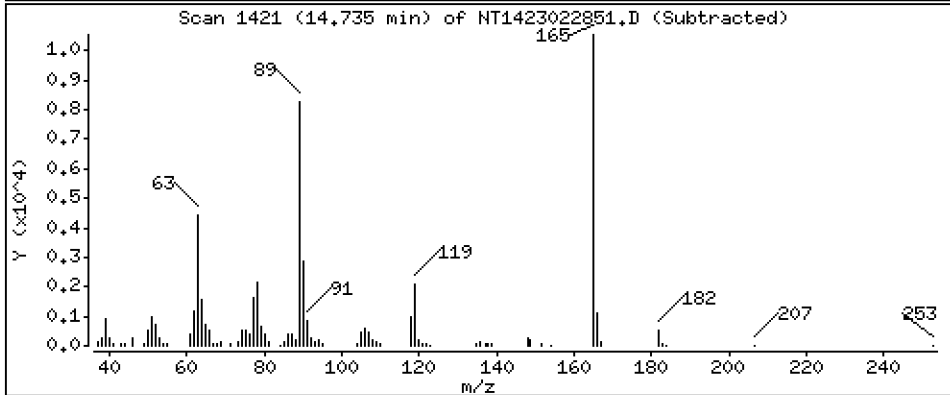
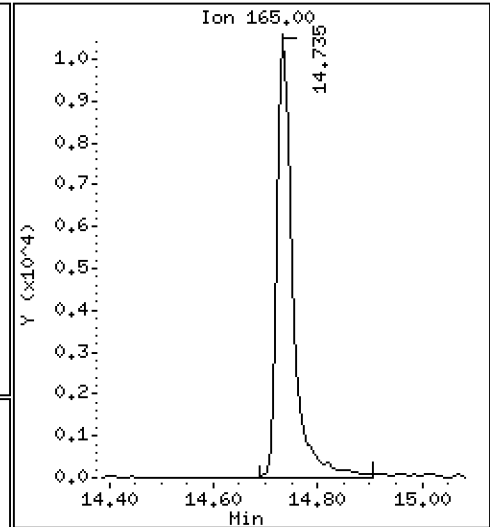
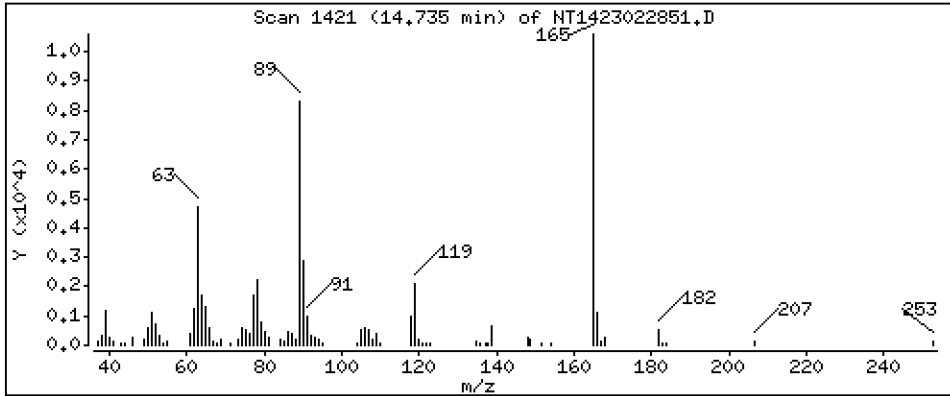
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

48 2,4-Dinitrotoluene

Concentration: 0.9033 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

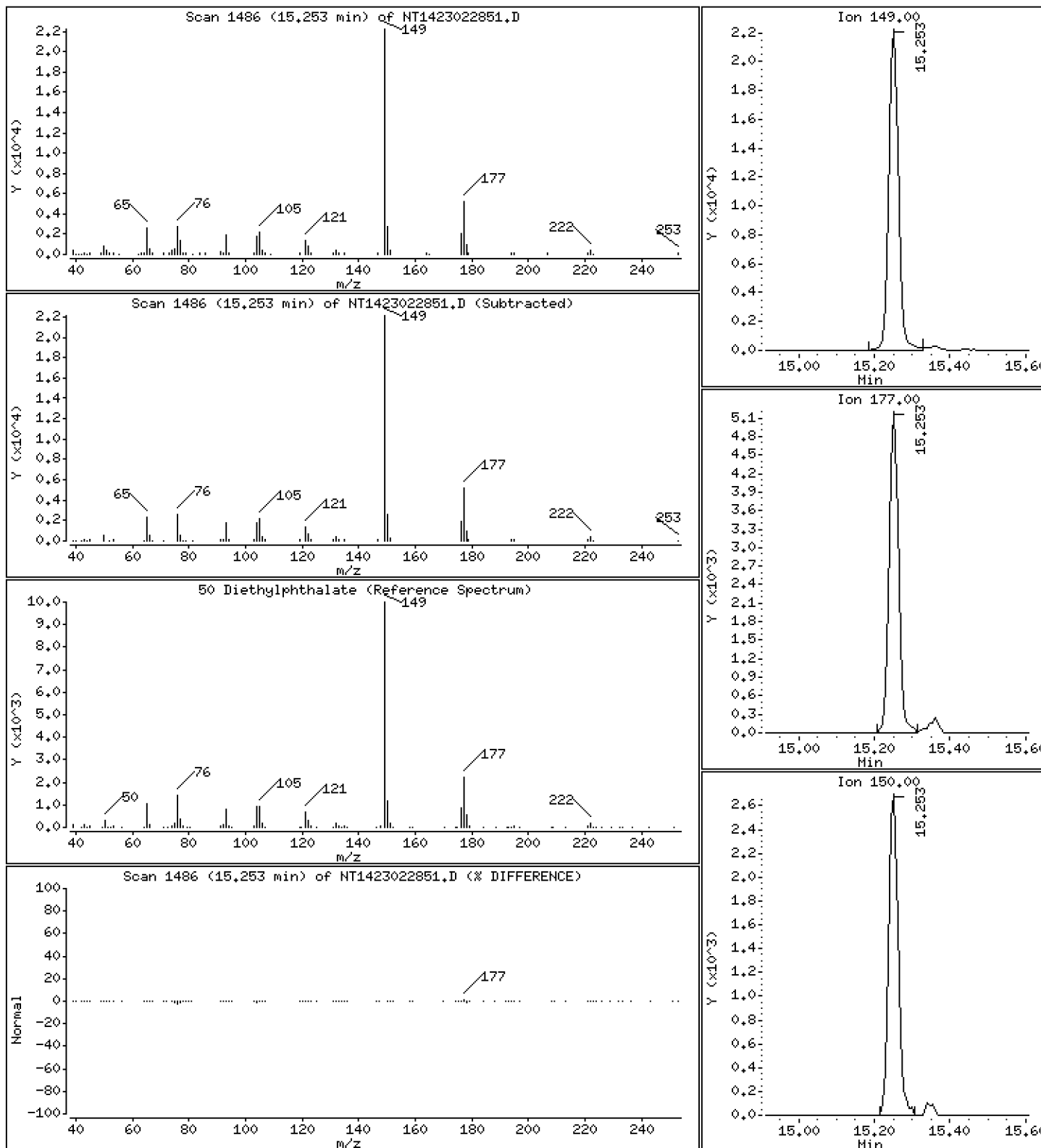
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 0,5625 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

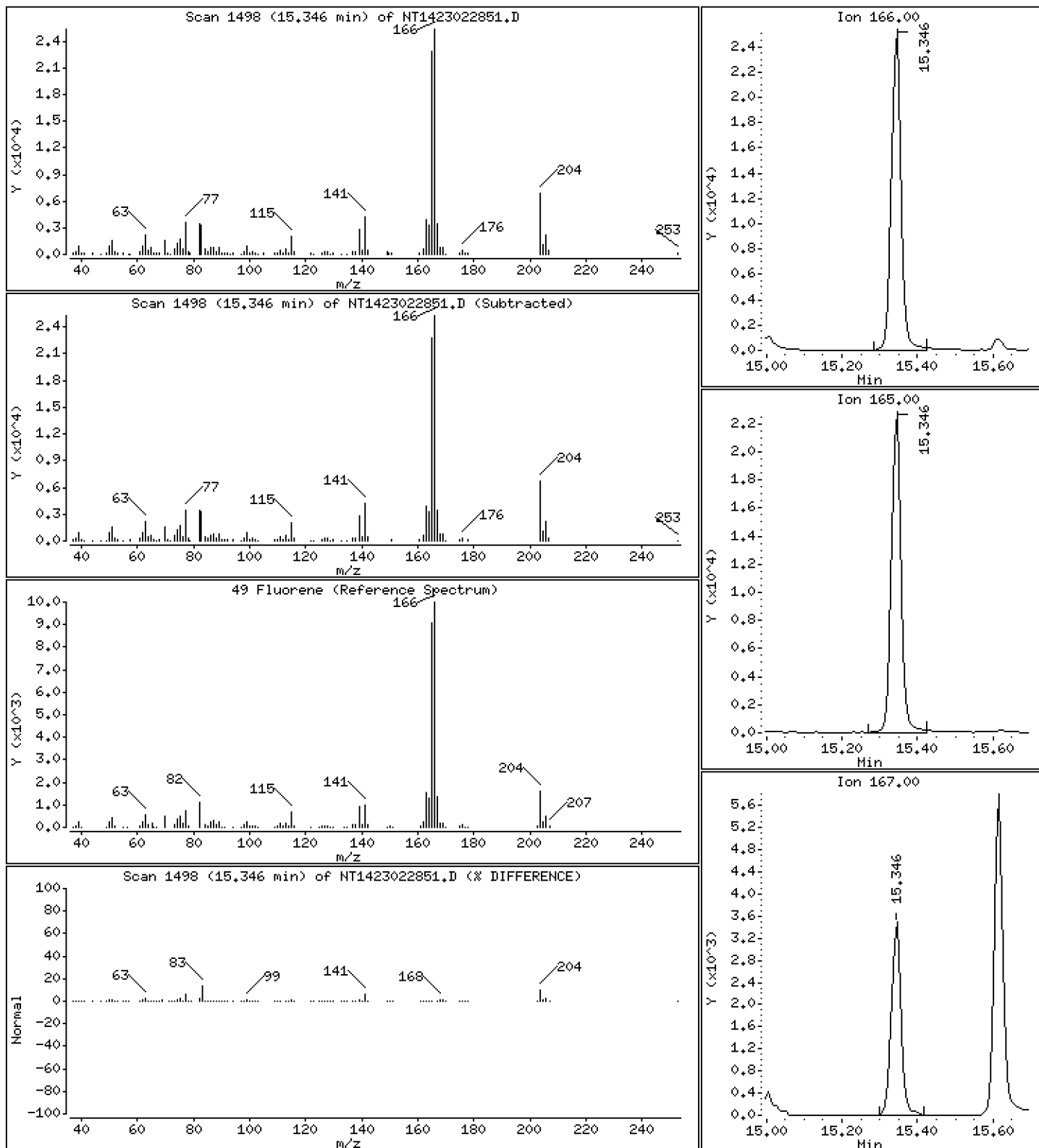
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 0,5425 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

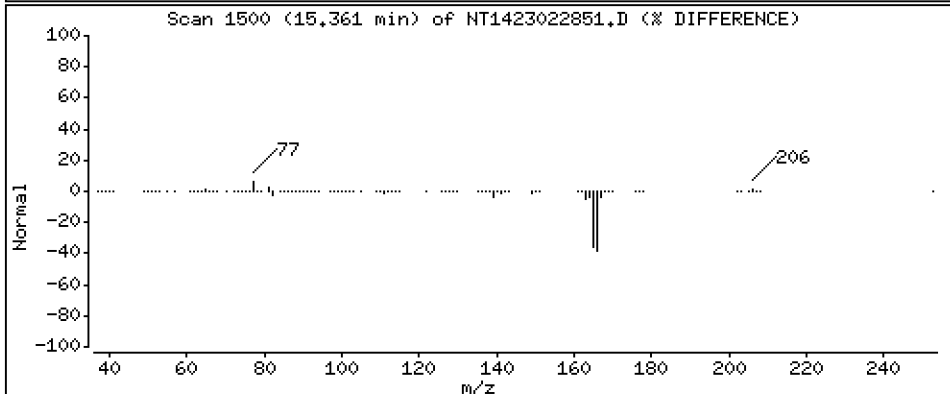
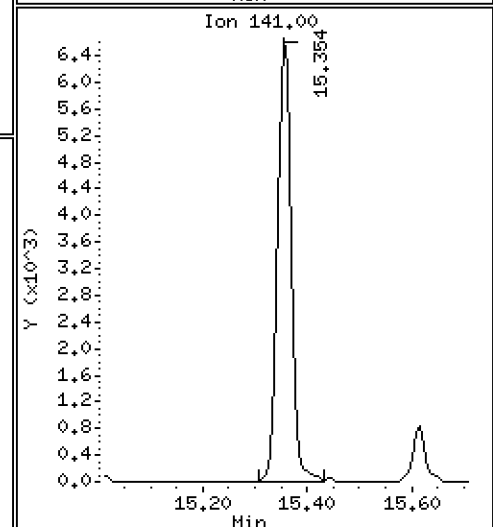
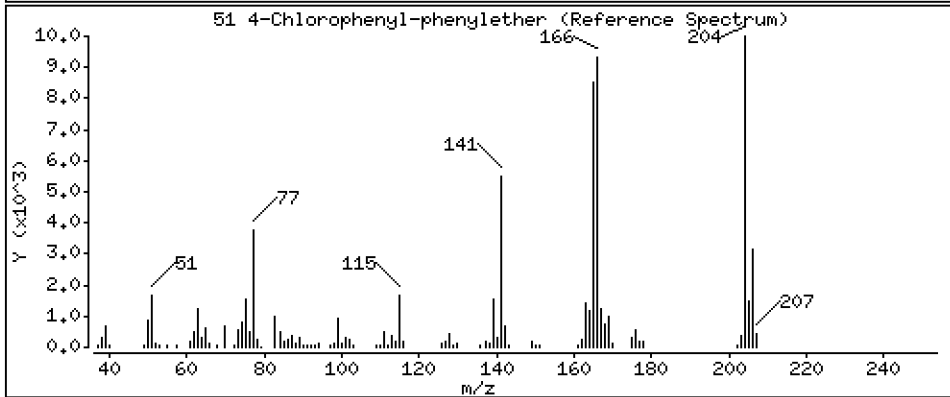
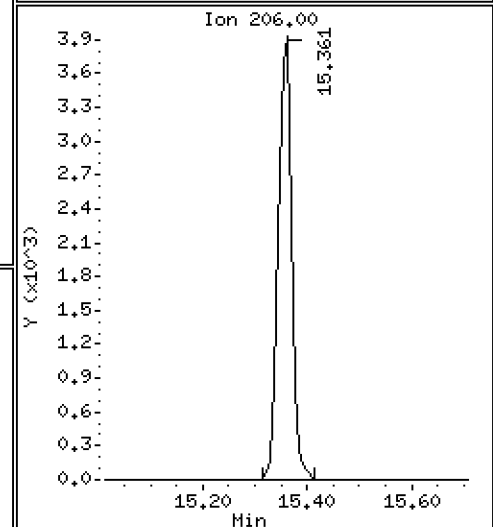
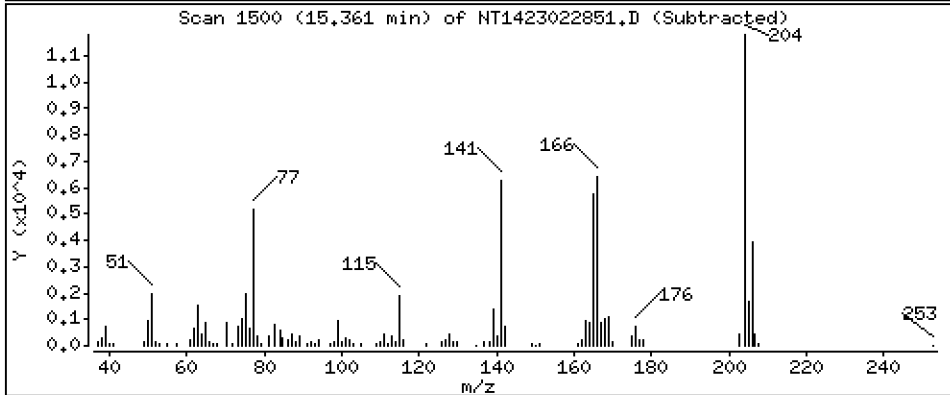
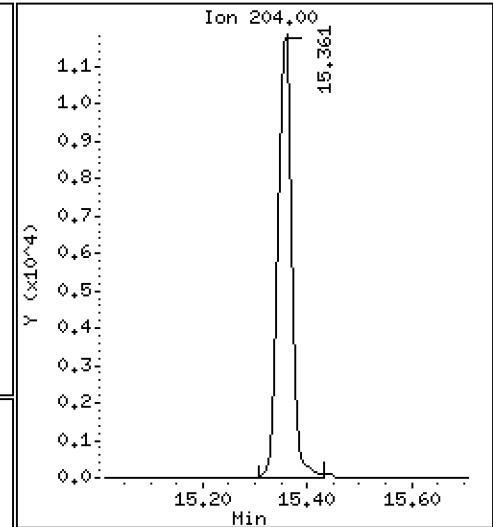
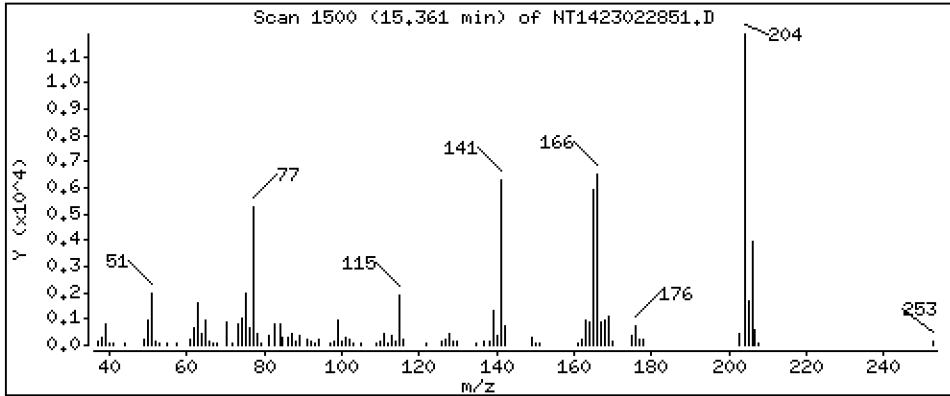
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 0,5008 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

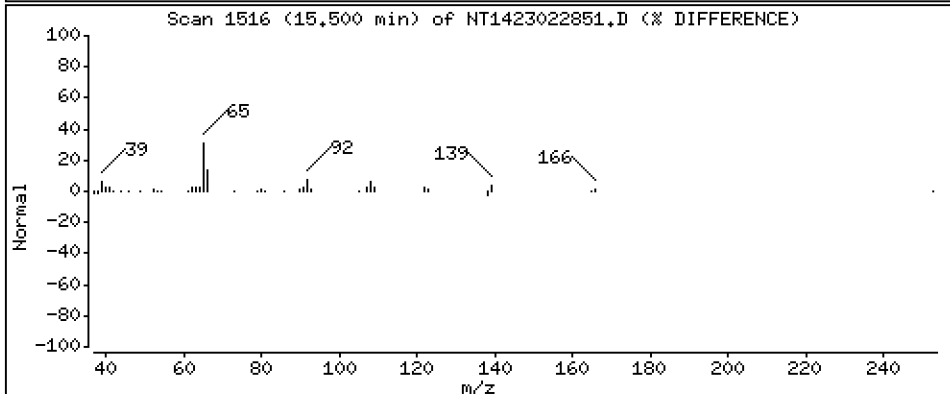
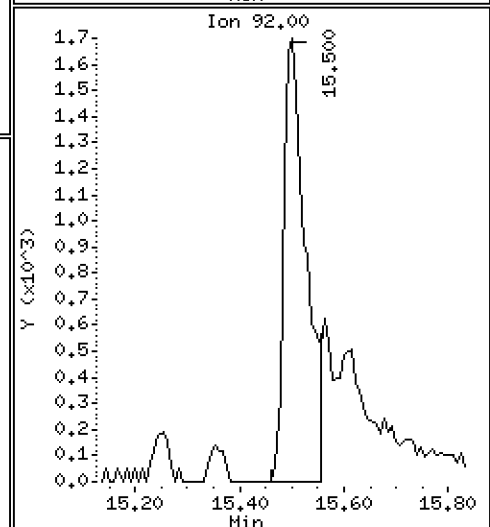
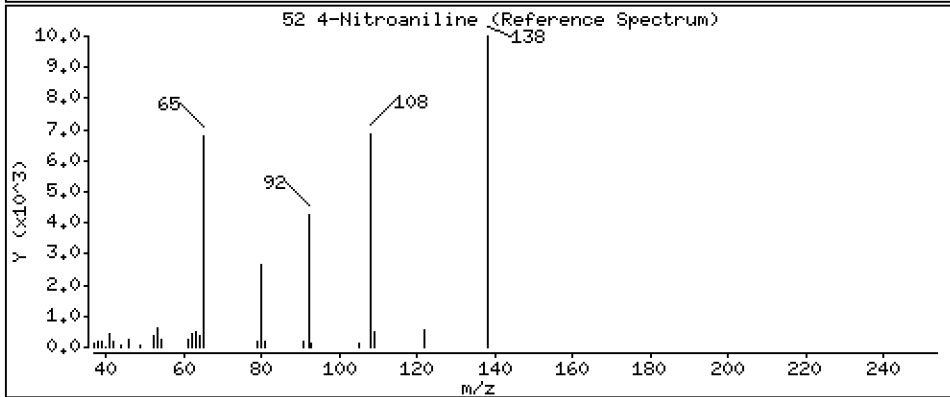
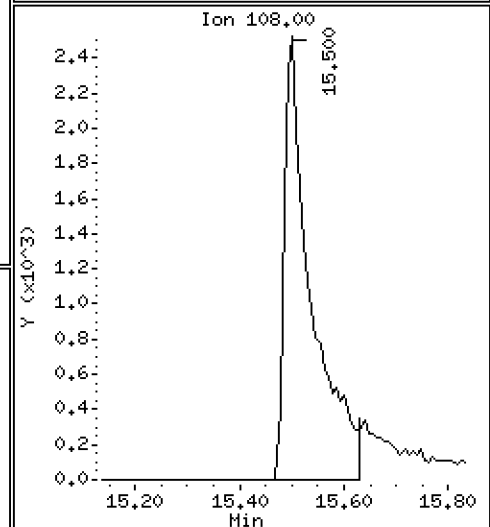
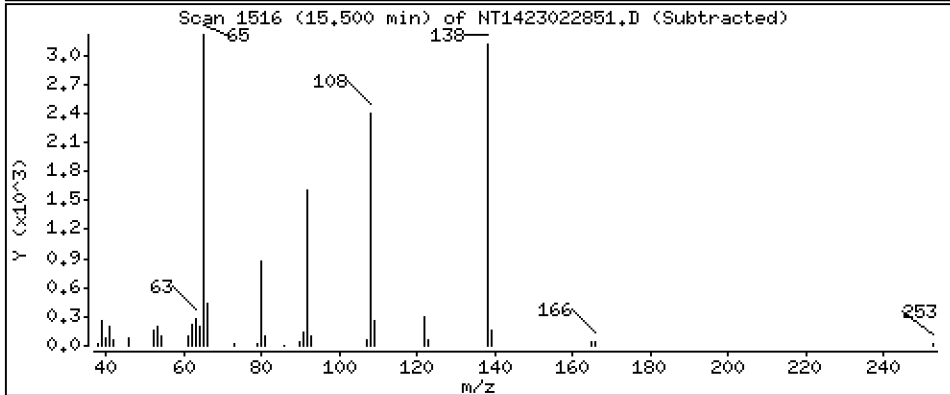
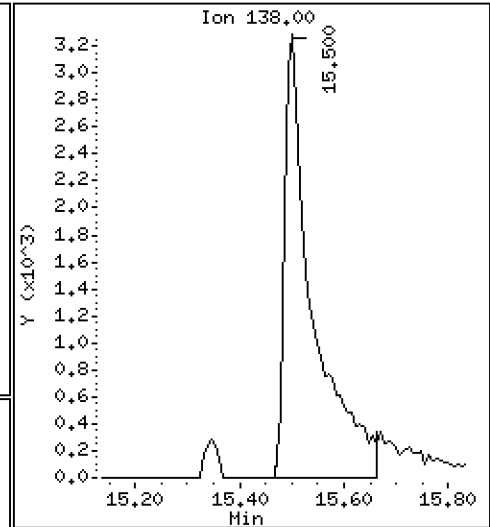
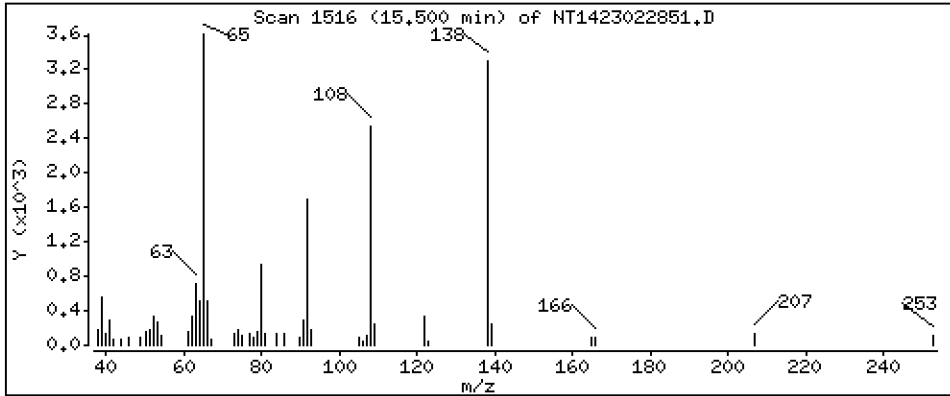
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

52 4-Nitroaniline

Concentration: 0,7373 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

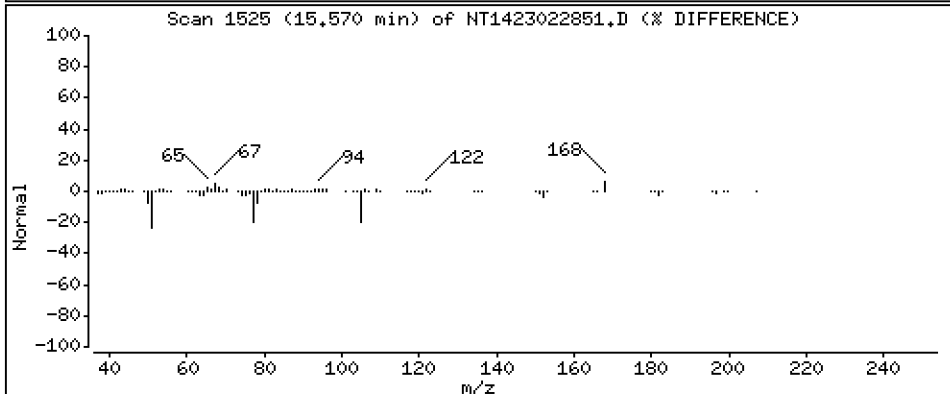
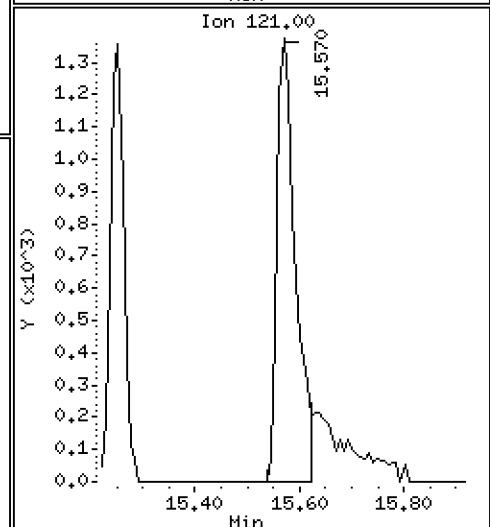
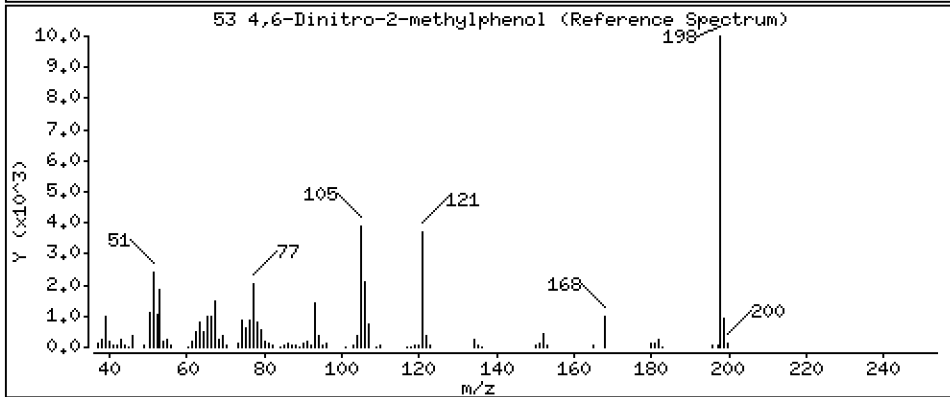
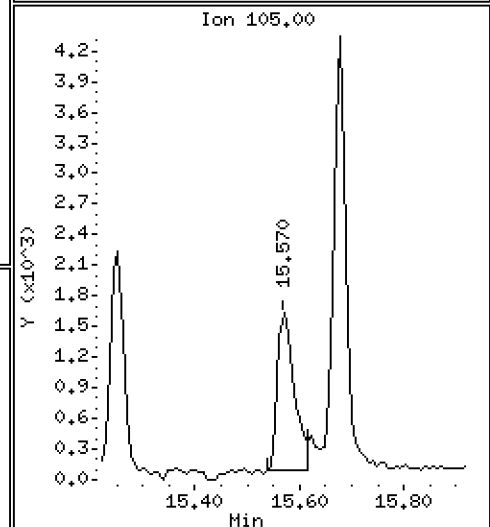
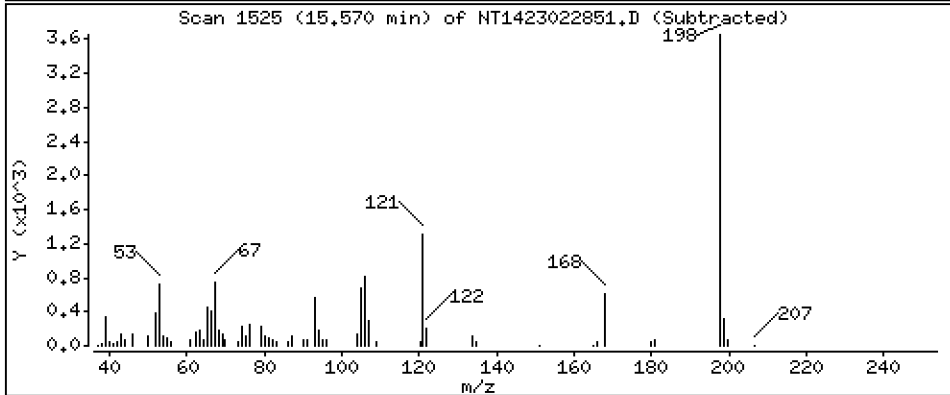
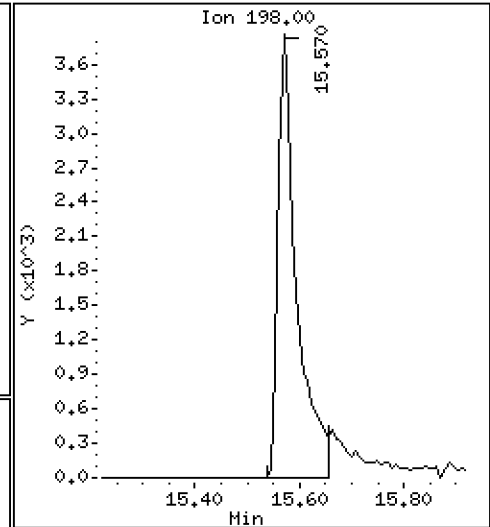
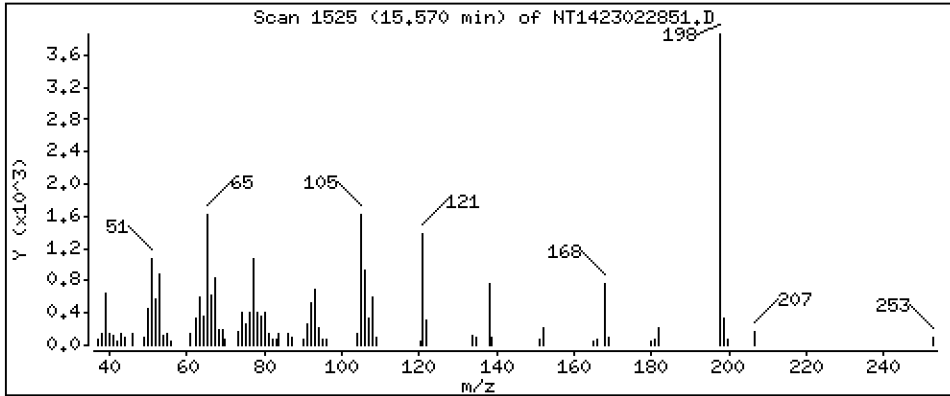
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

53 4,6-Dinitro-2-methylphenol

Concentration: 0.6805 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

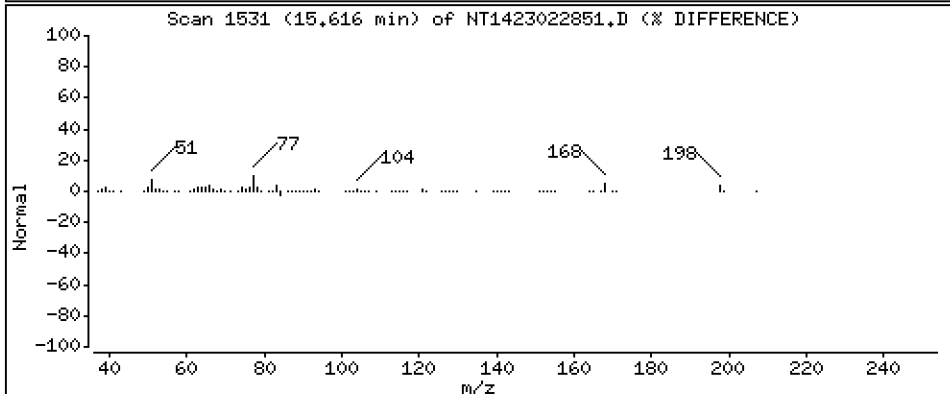
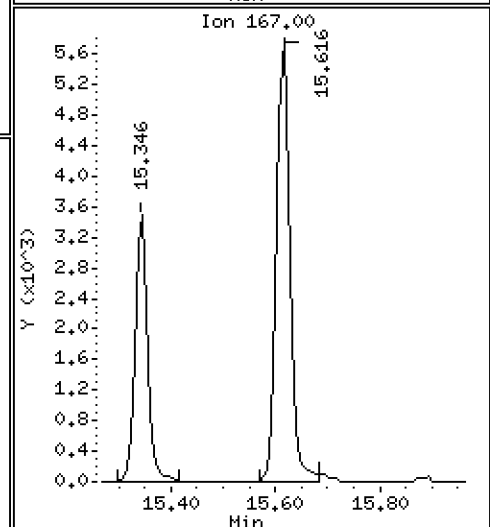
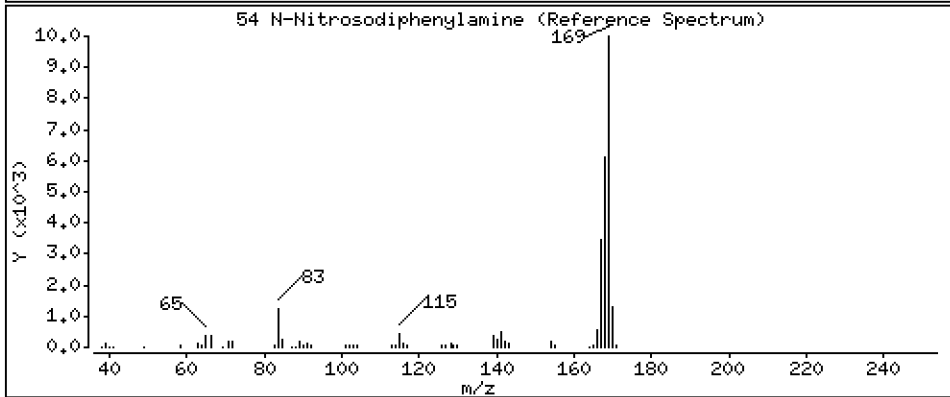
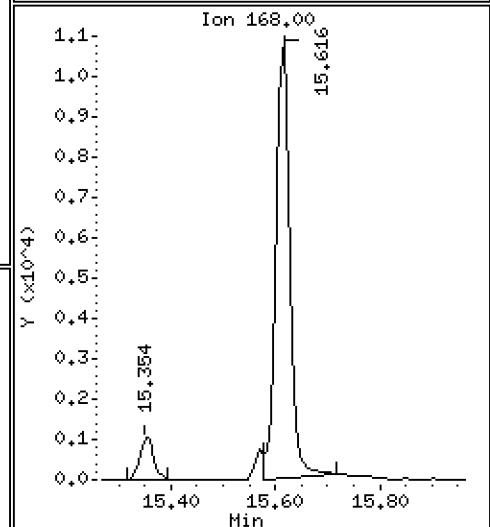
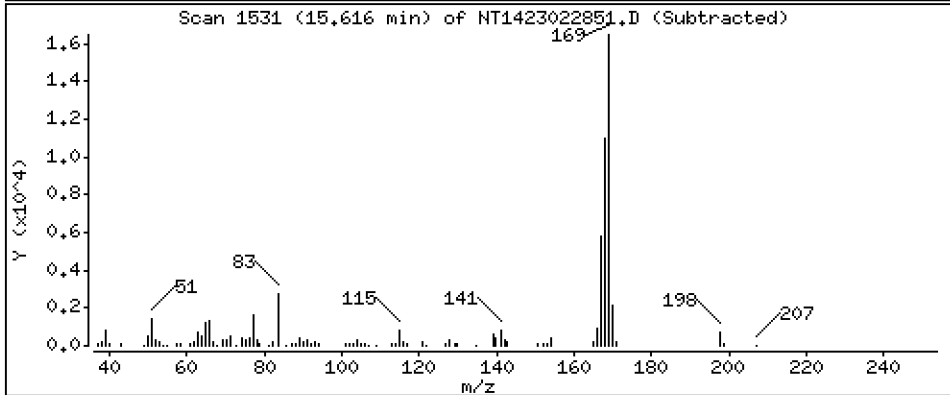
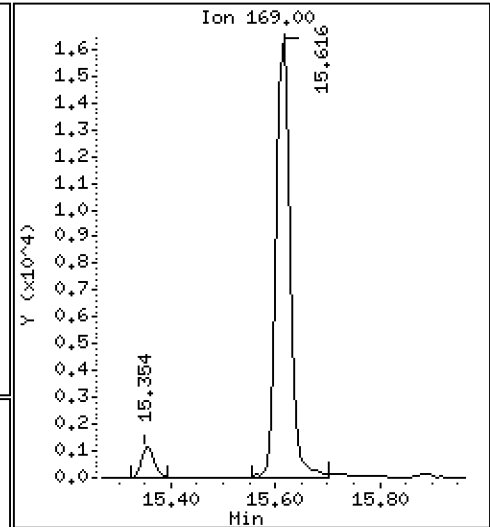
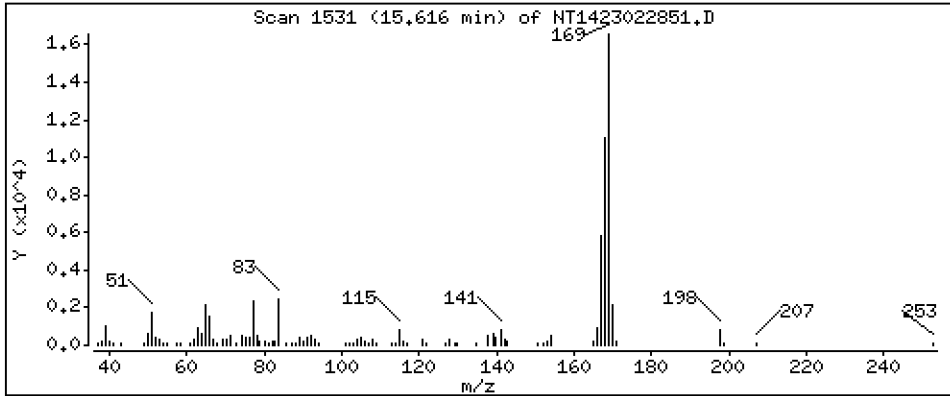
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

54 N-Nitrosodiphenylamine

Concentration: 0,5667 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

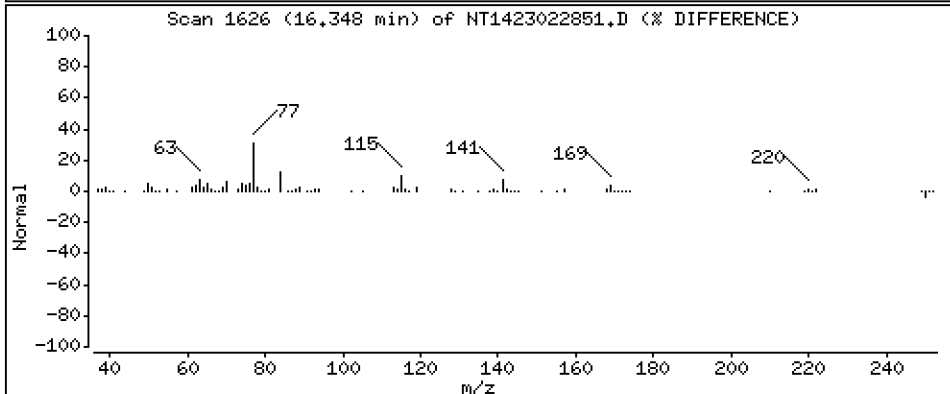
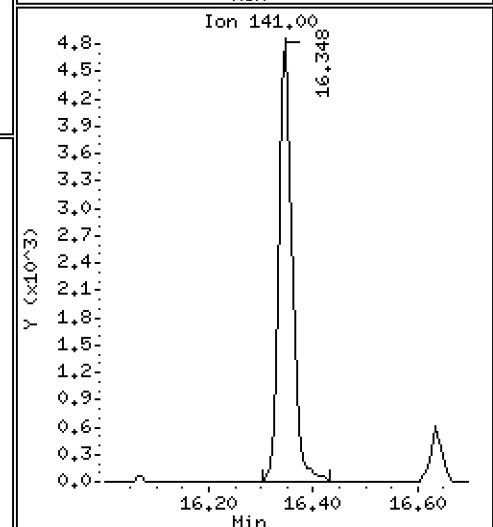
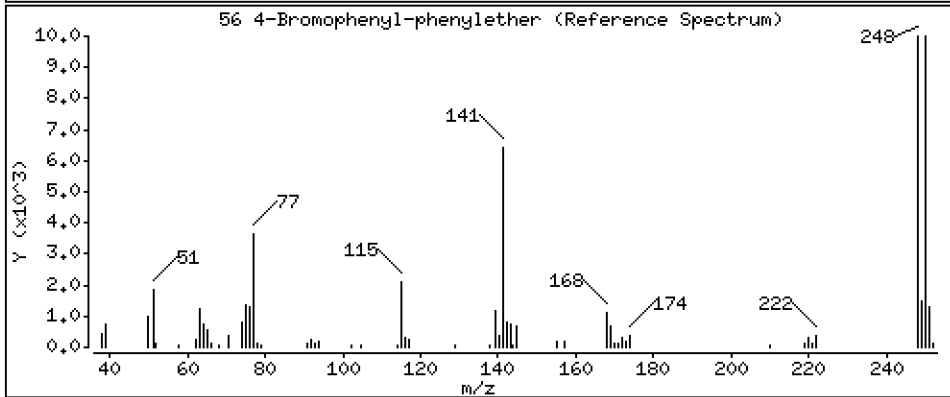
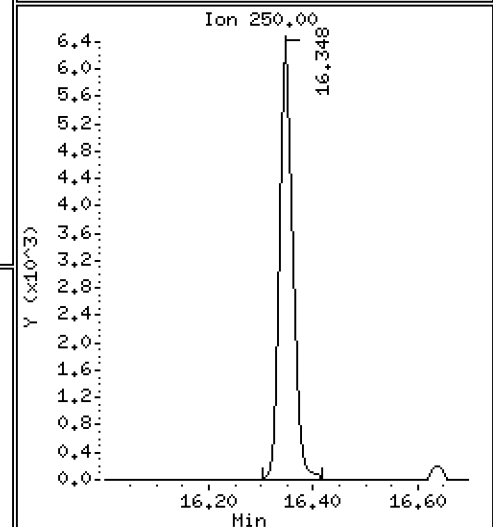
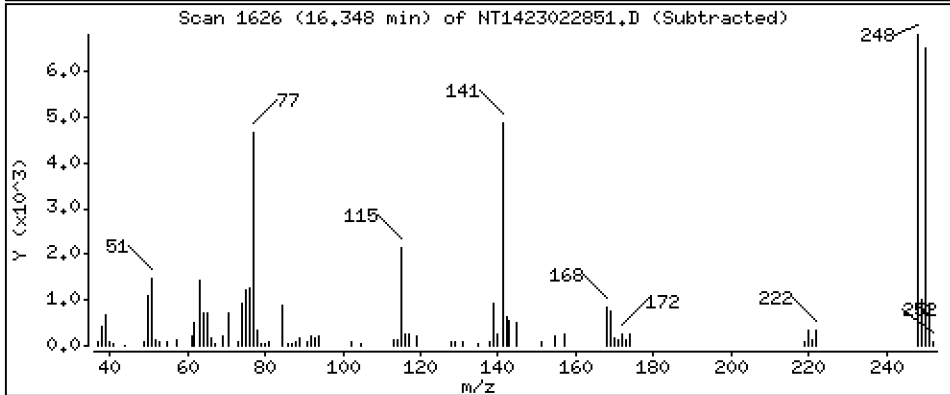
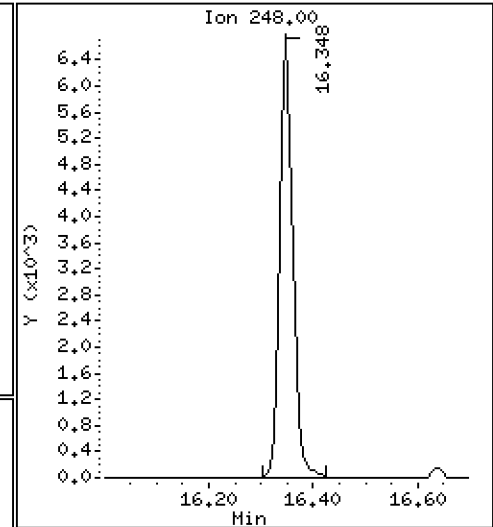
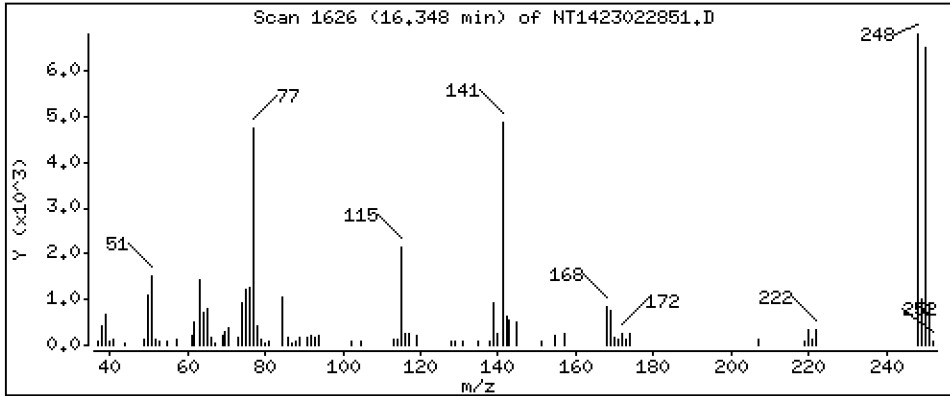
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

56 4-Bromophenyl-phenylether

Concentration: 0.5058 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

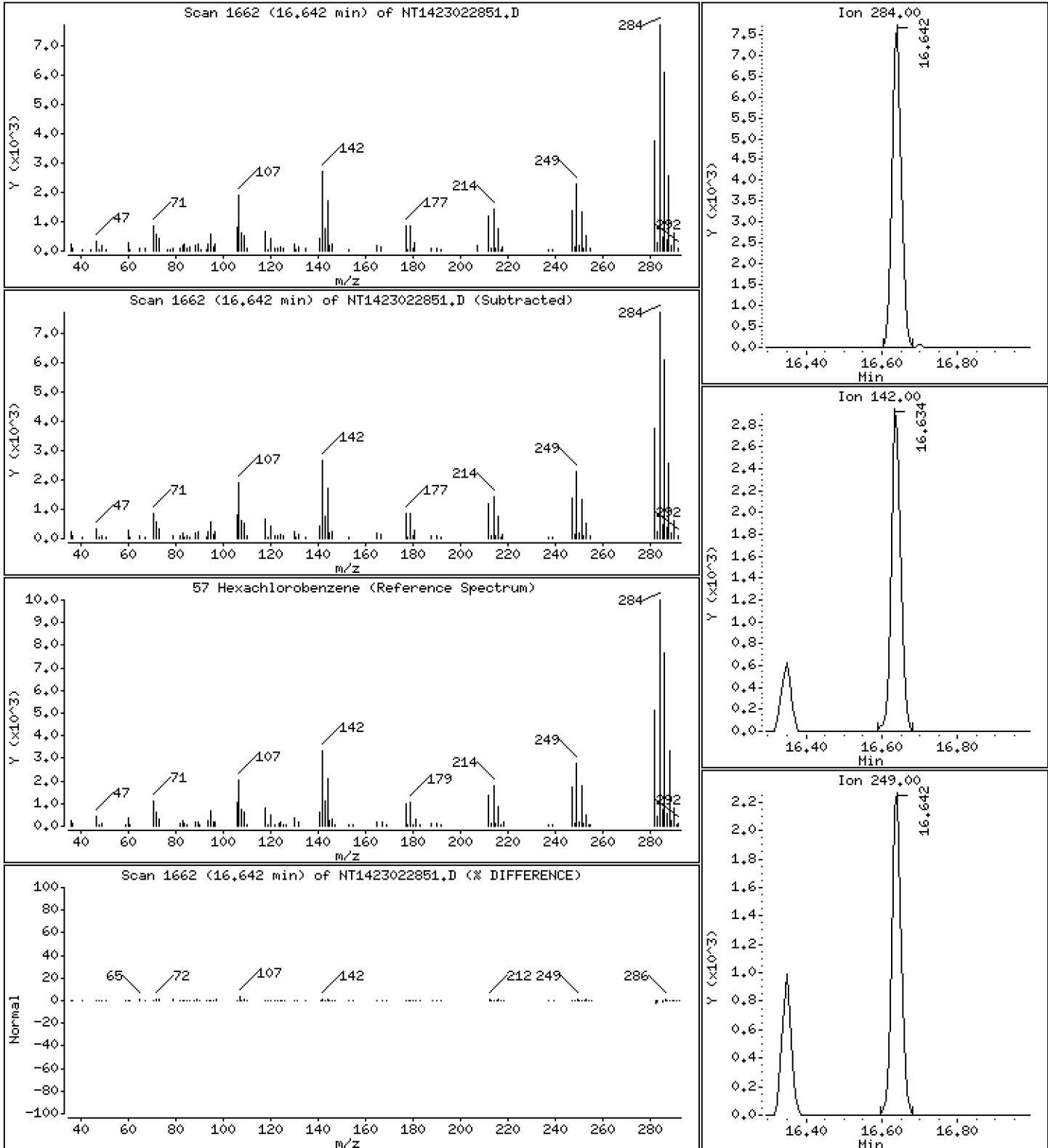
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

57 Hexachlorobenzene

Concentration: 0,5168 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

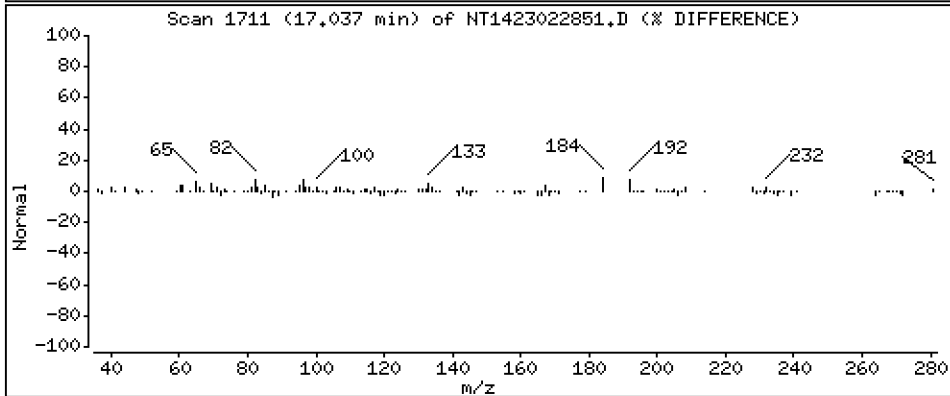
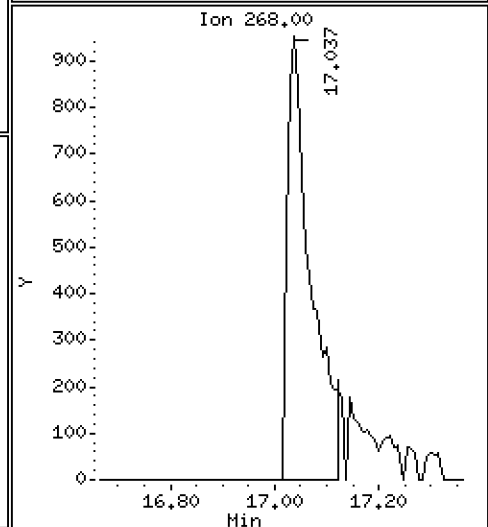
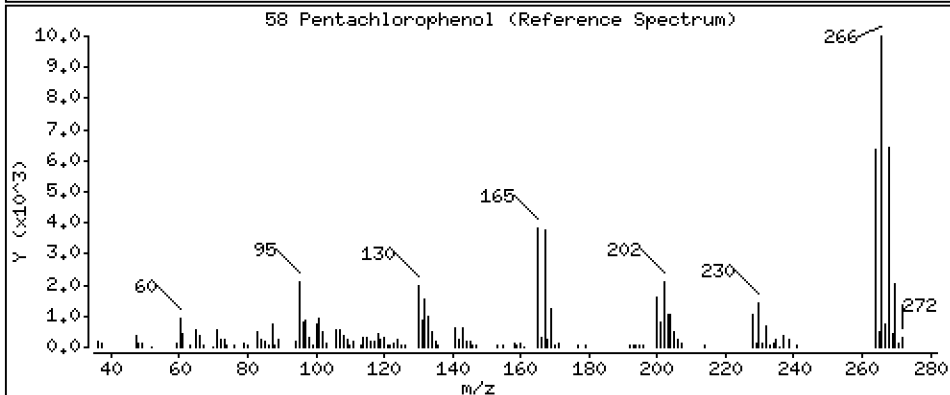
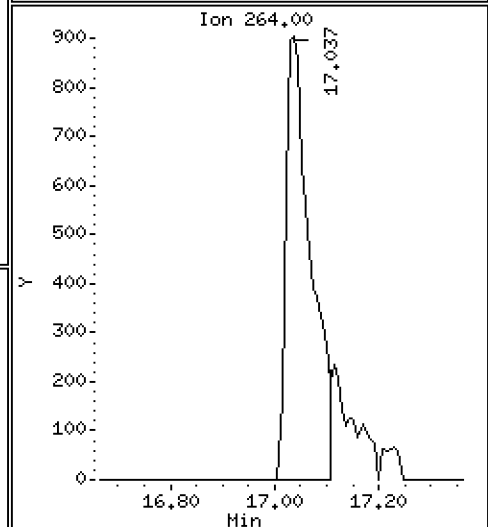
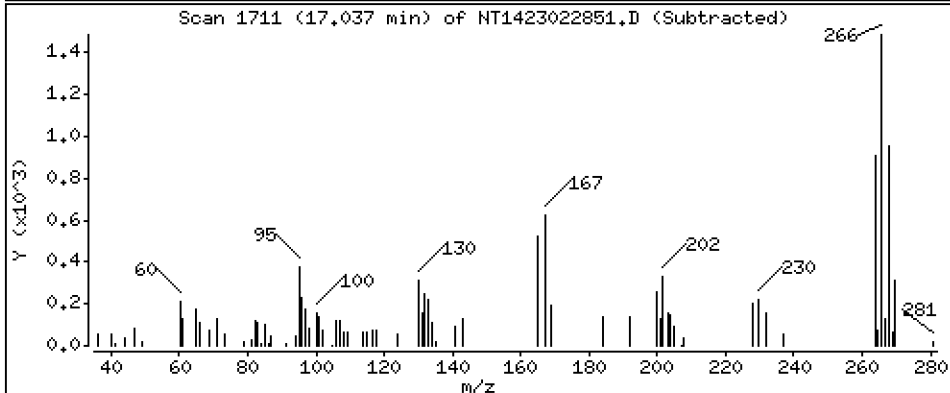
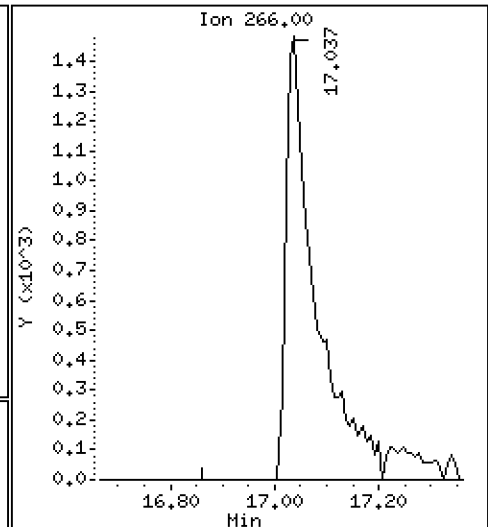
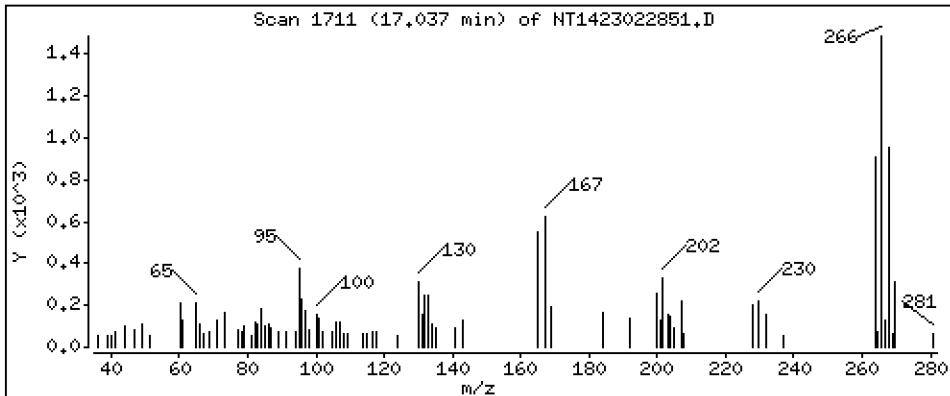
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 0,5527 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

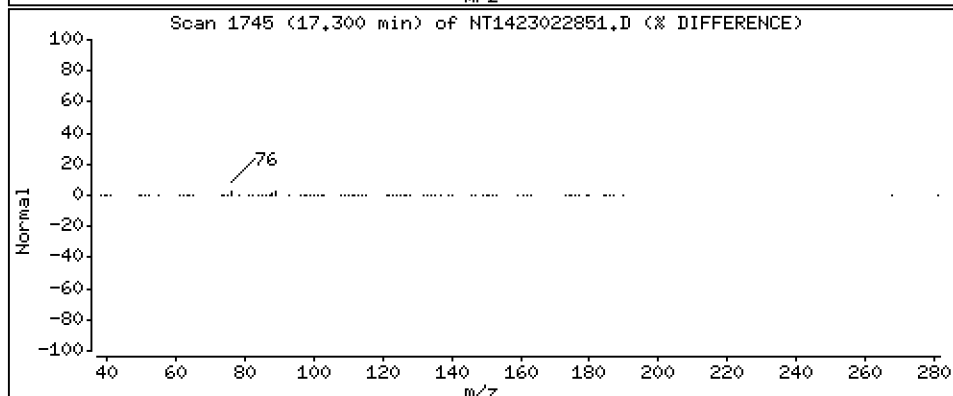
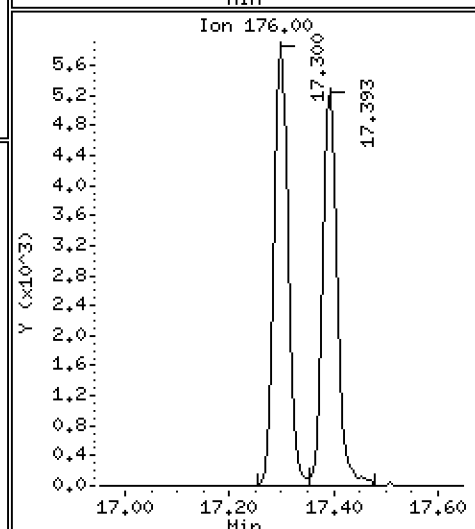
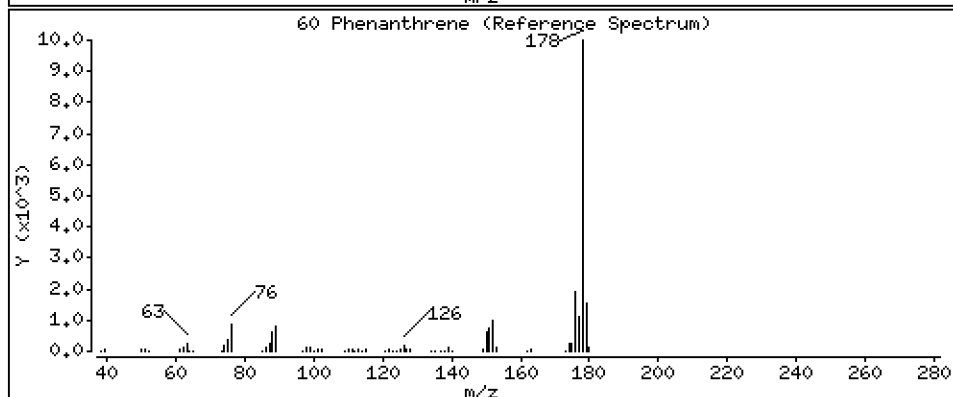
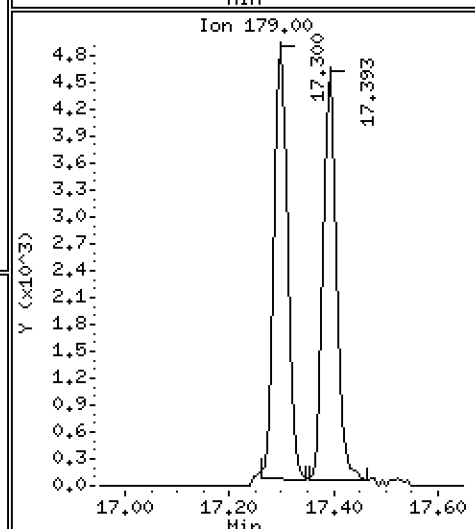
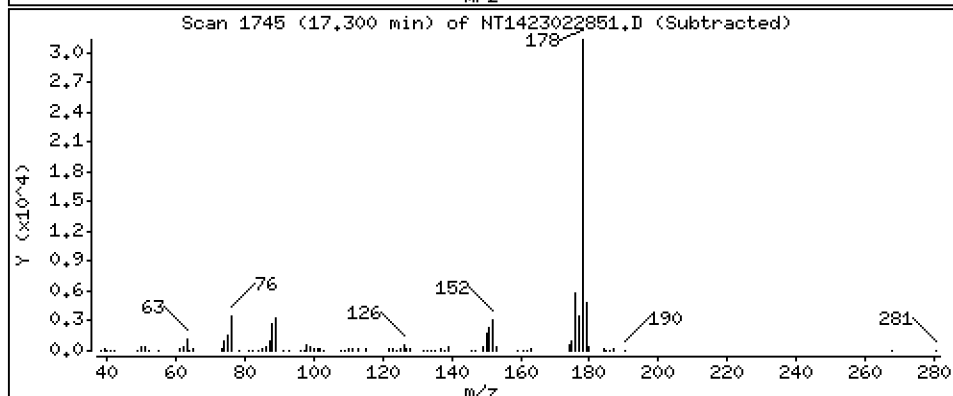
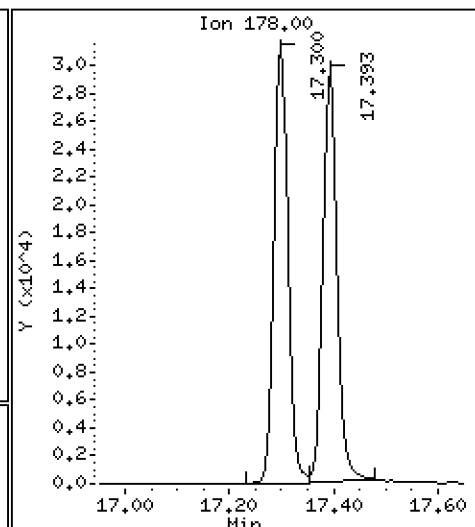
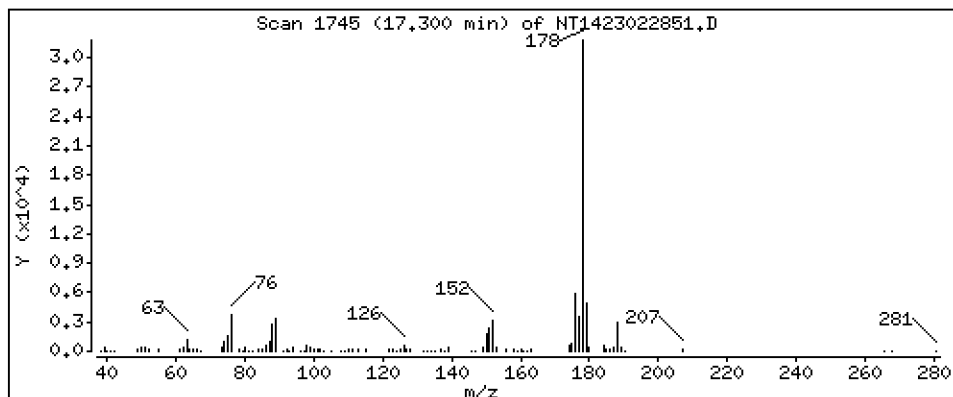
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 0,5174 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

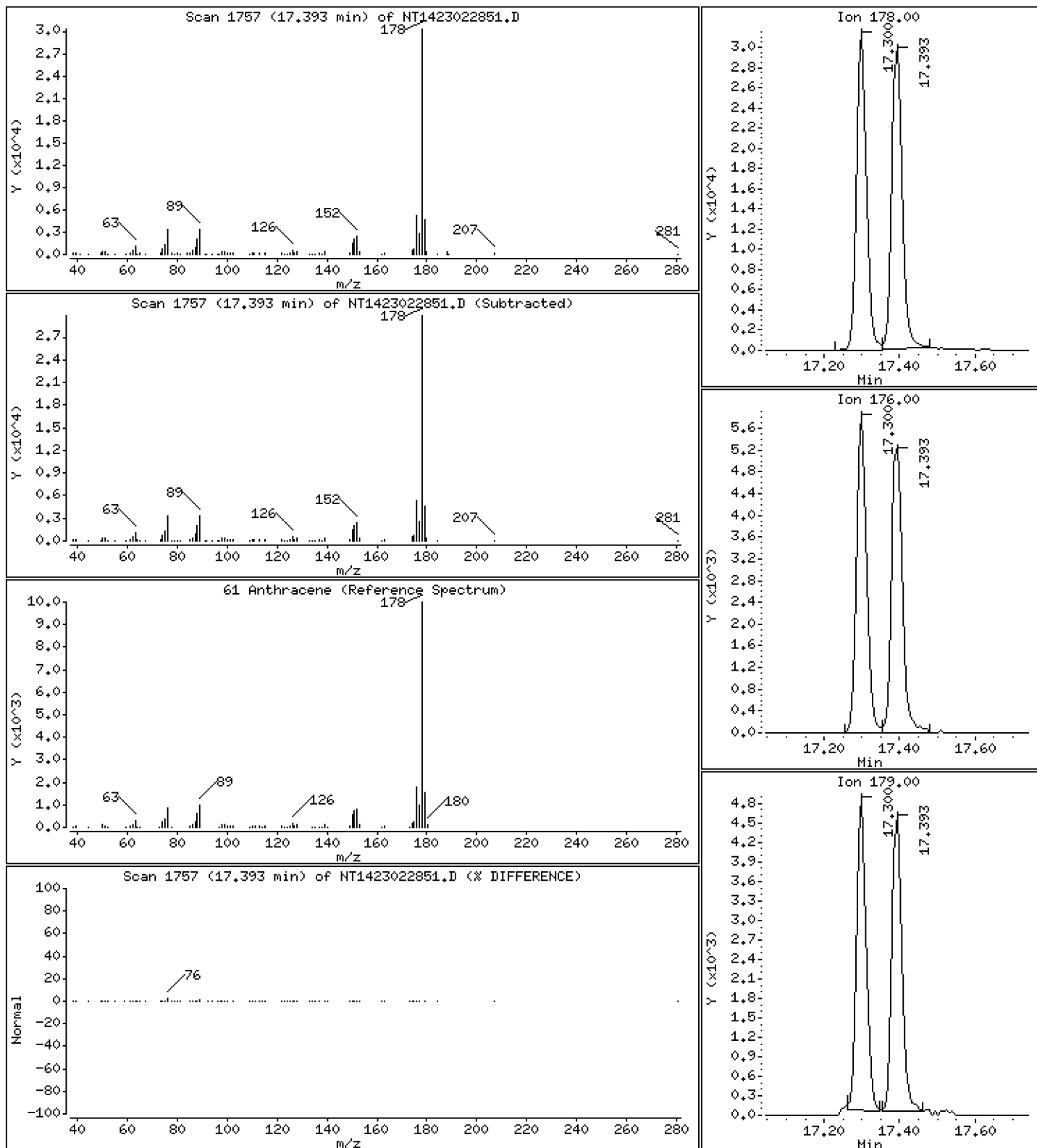
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 0,5267 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

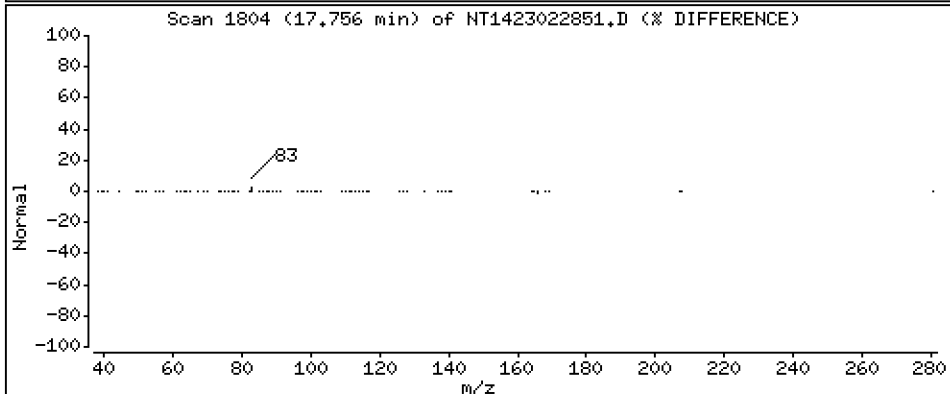
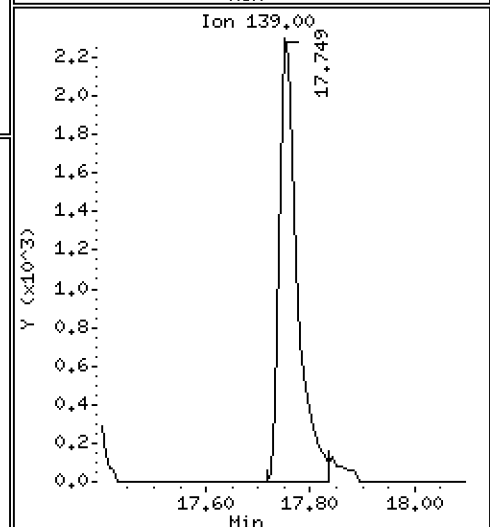
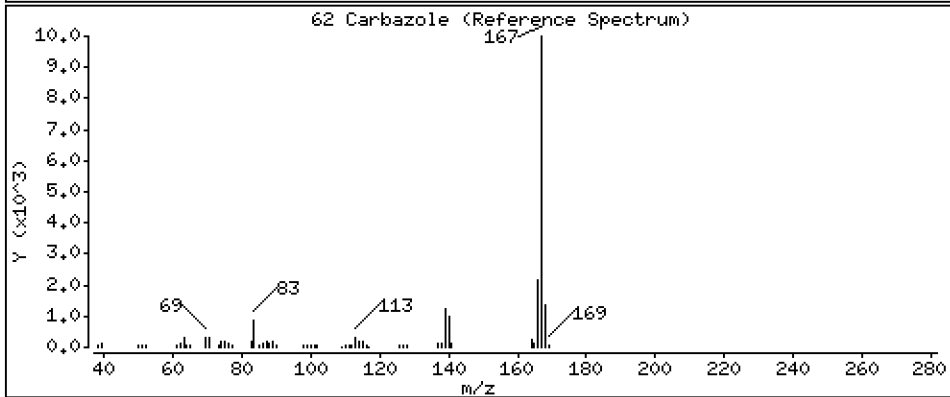
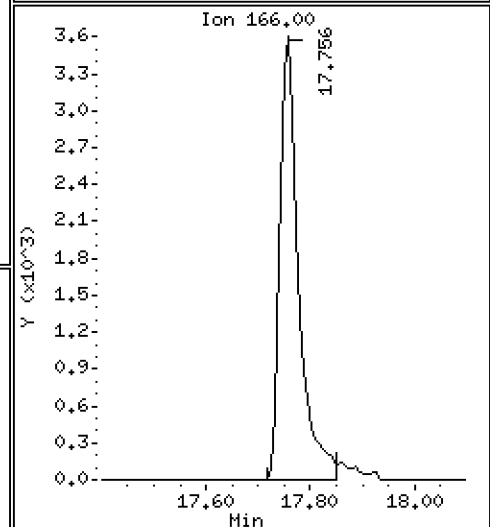
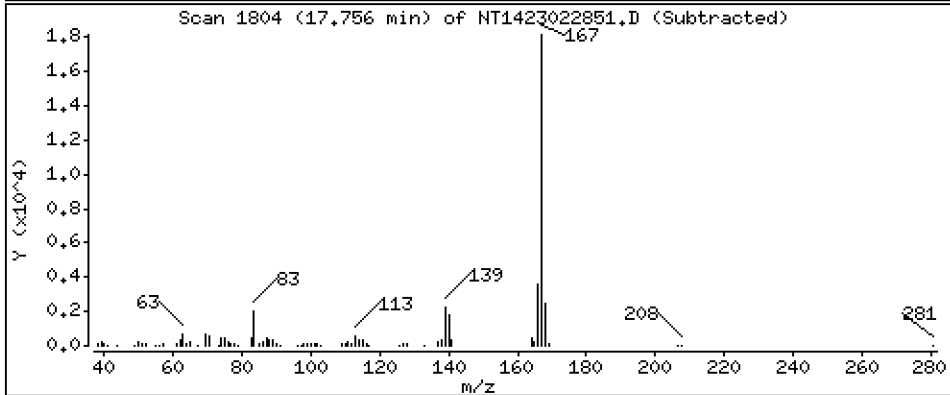
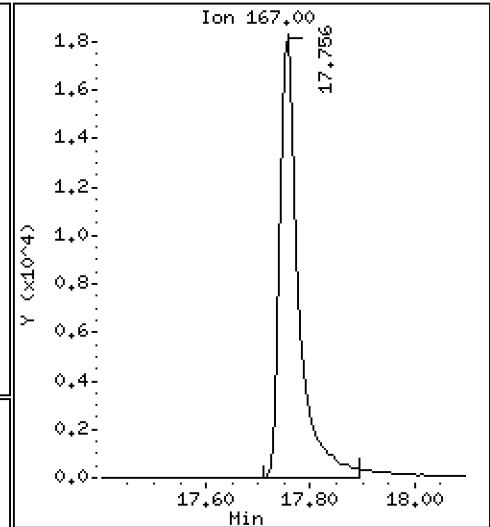
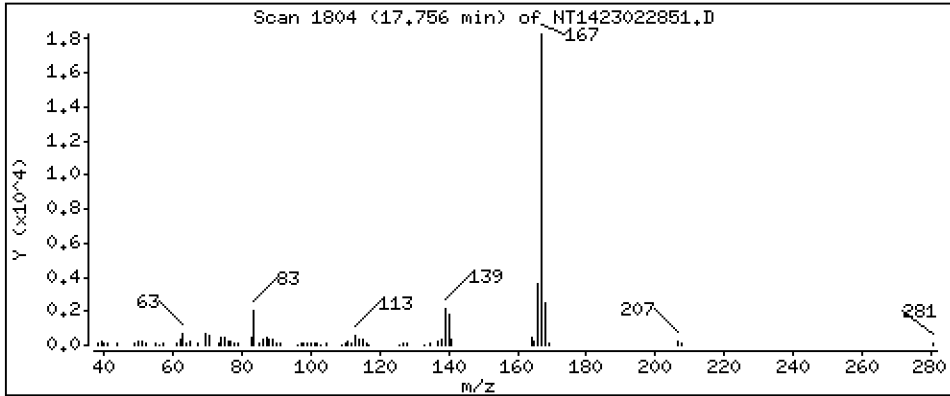
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 0,5008 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

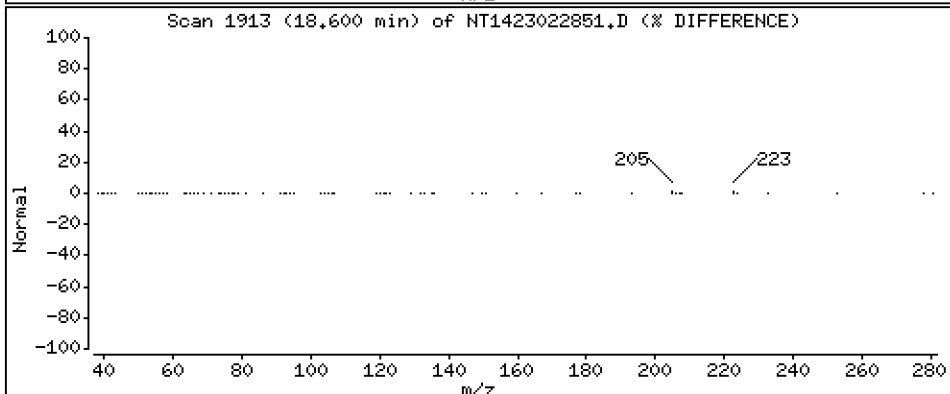
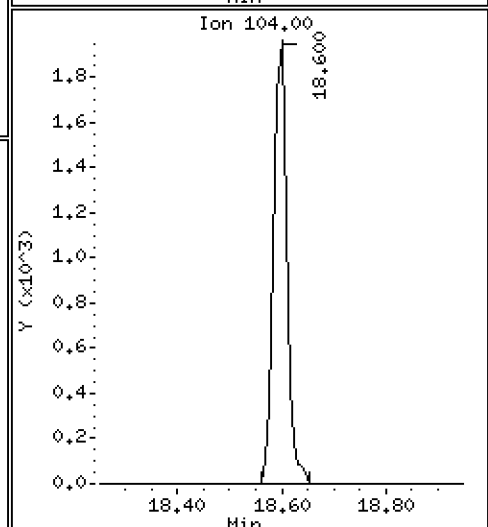
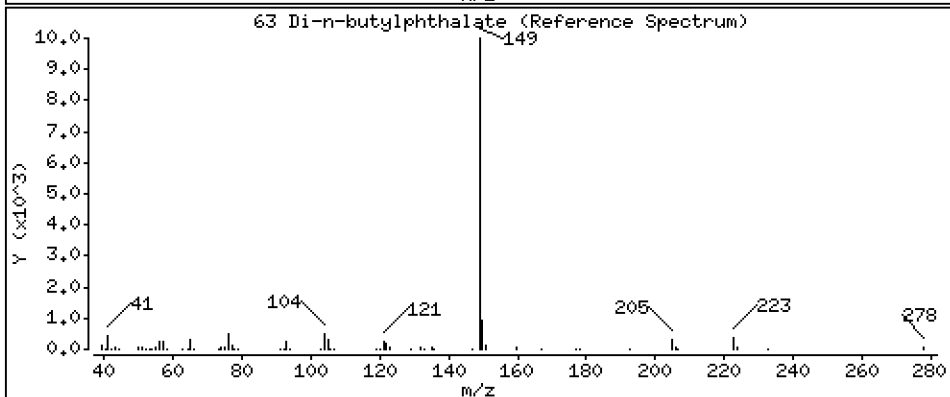
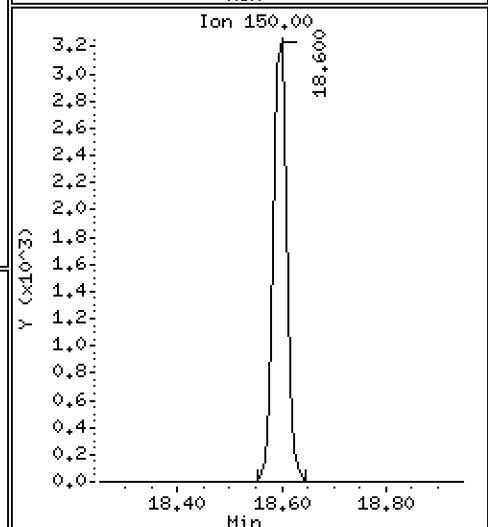
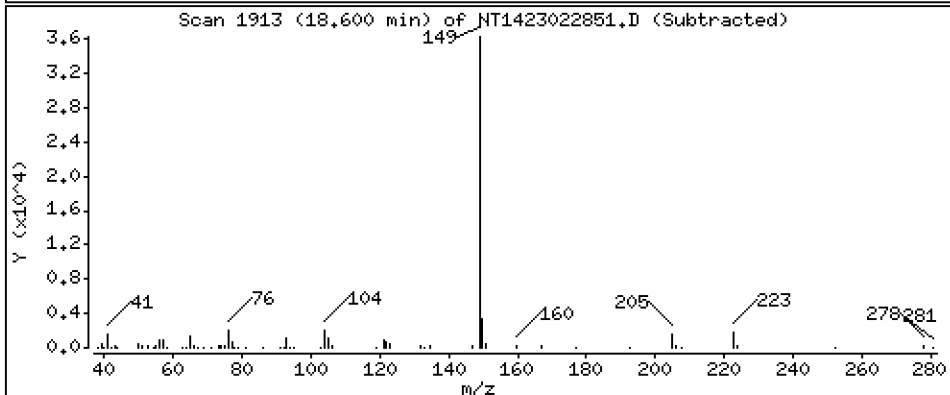
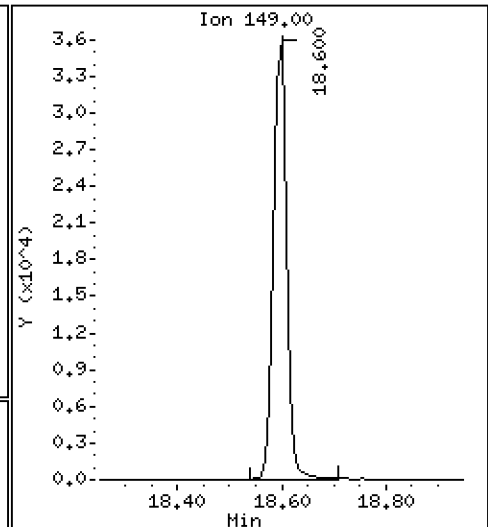
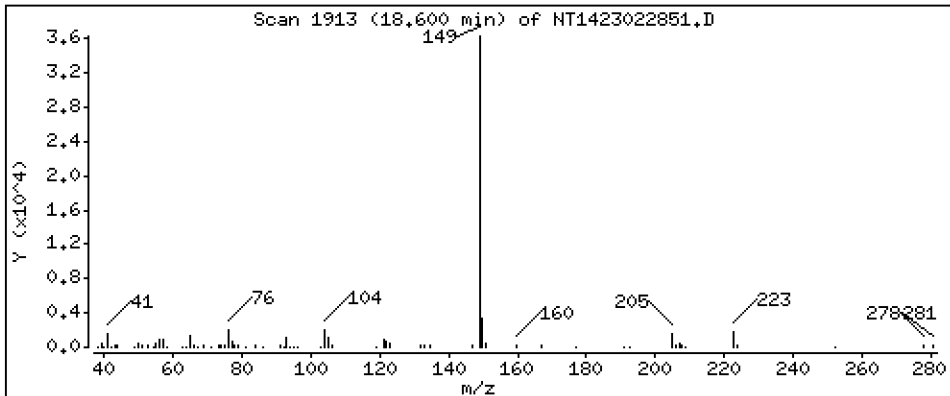
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 0,5148 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

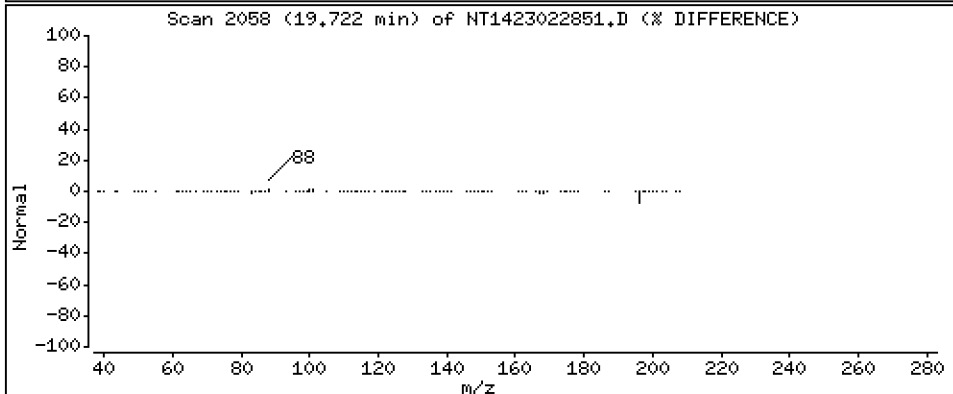
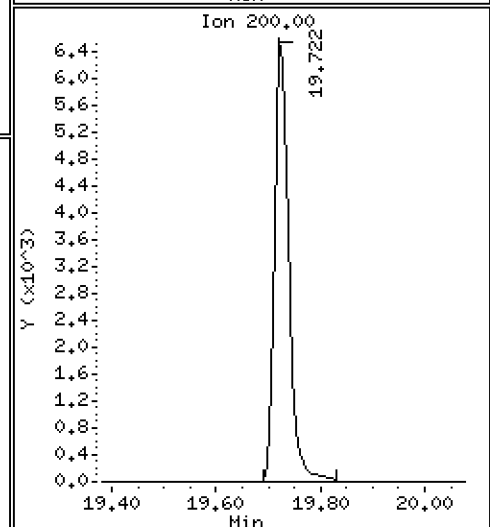
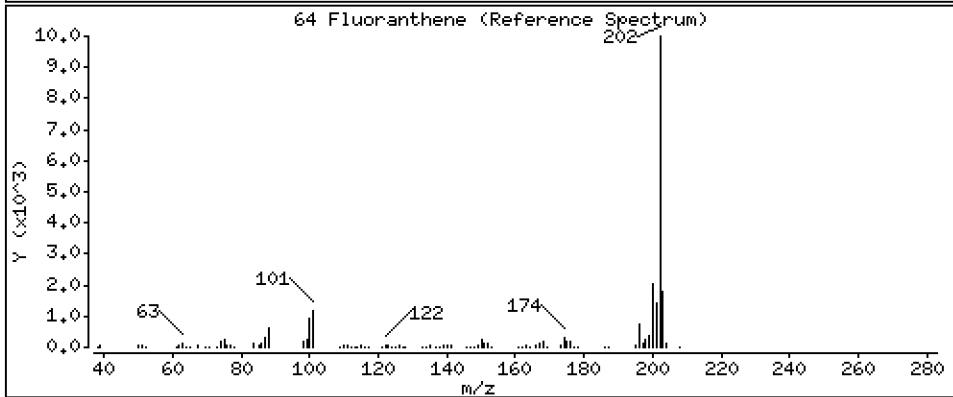
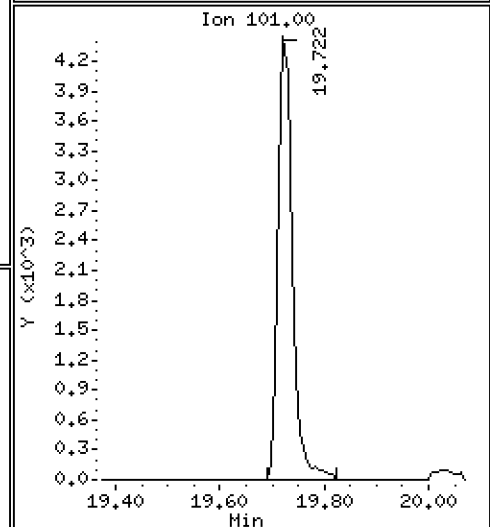
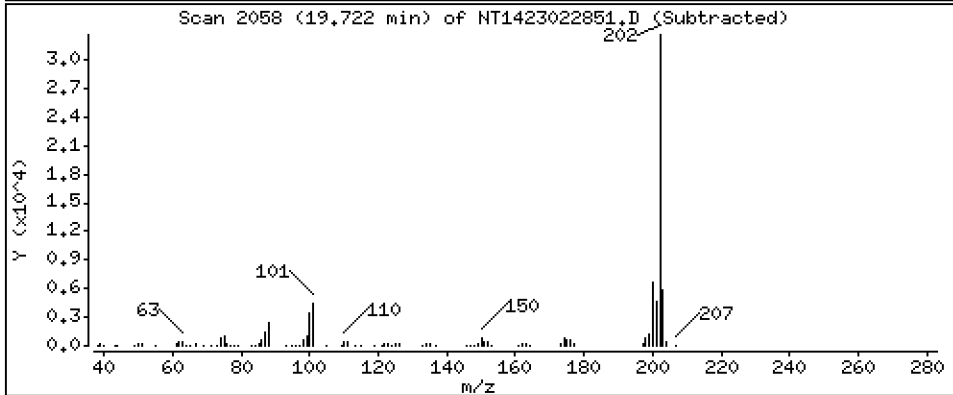
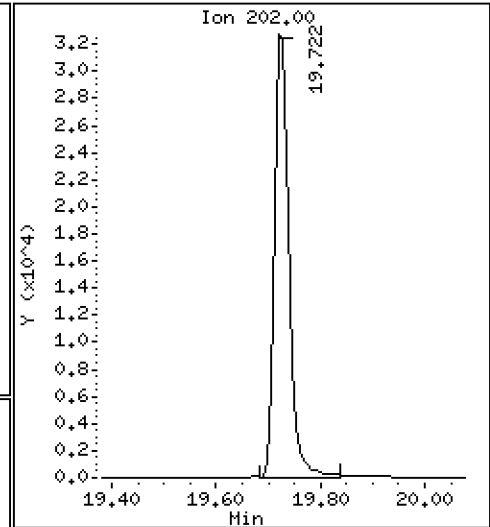
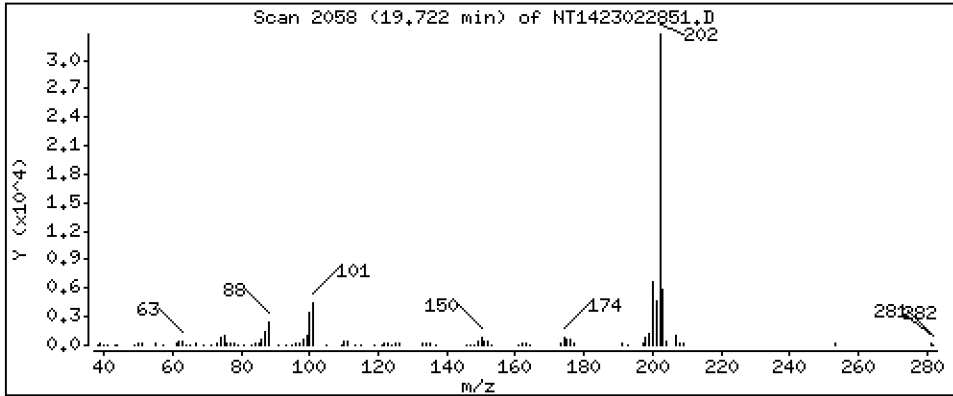
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 0,4660 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

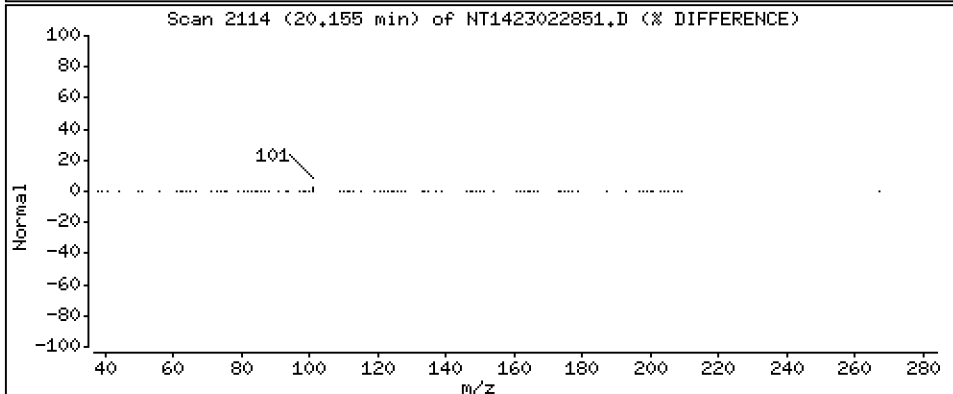
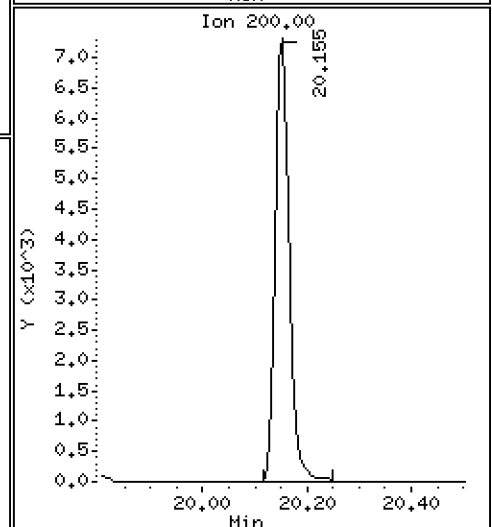
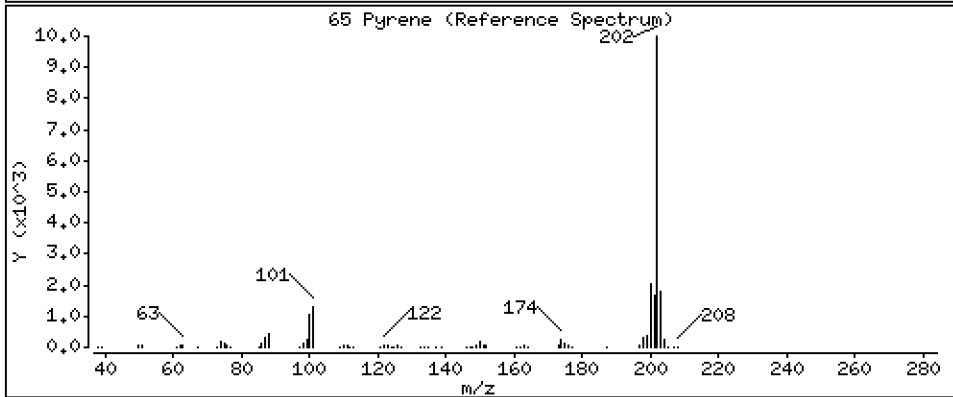
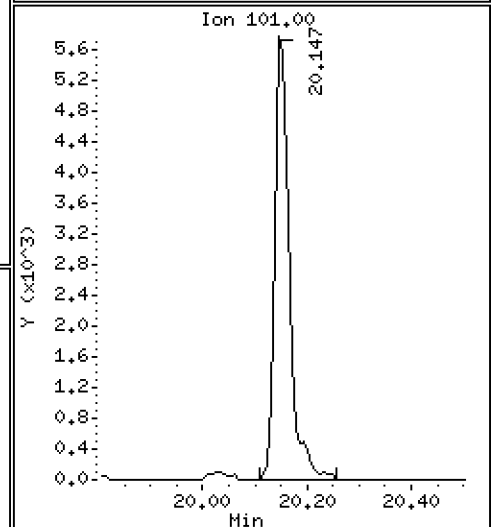
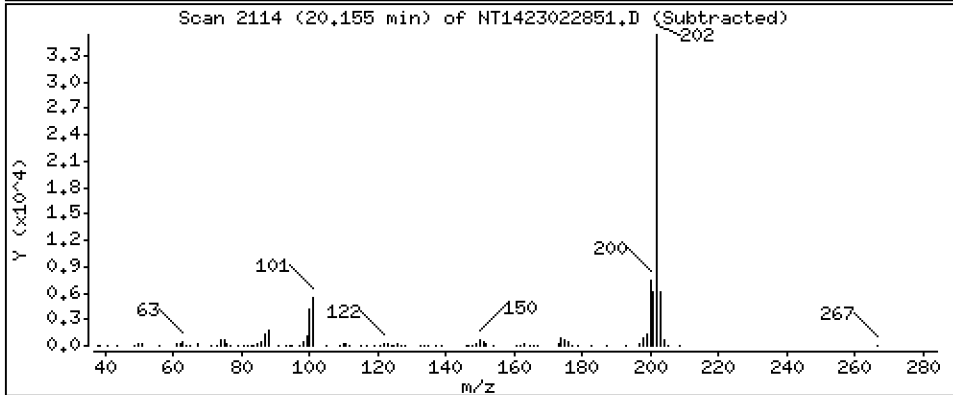
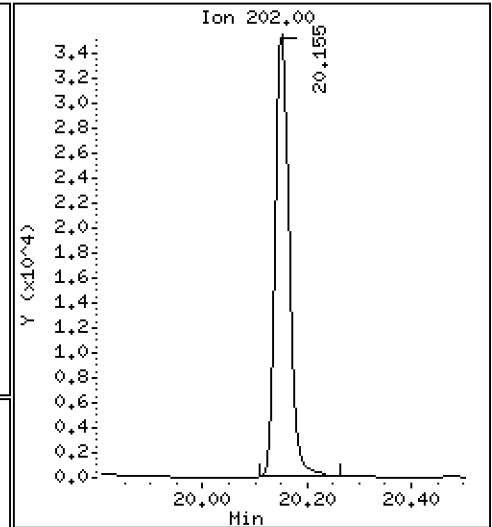
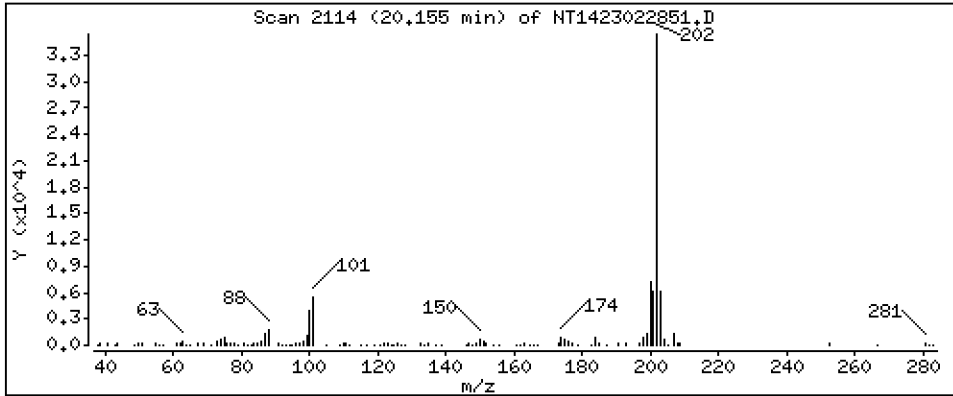
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 0,4661 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

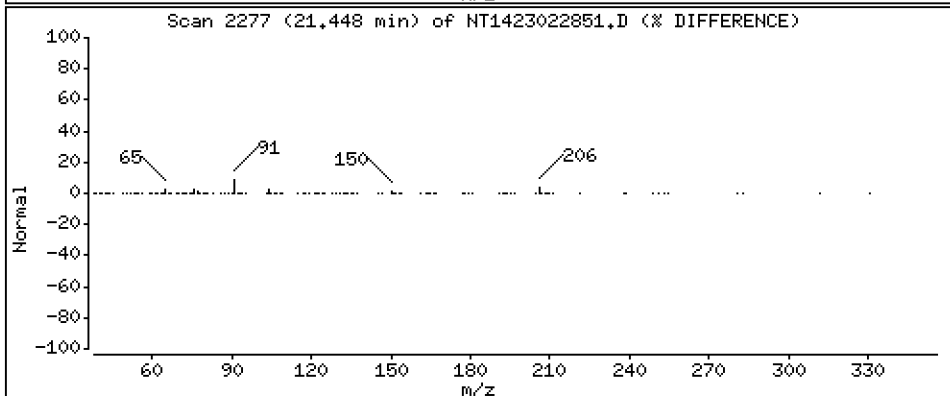
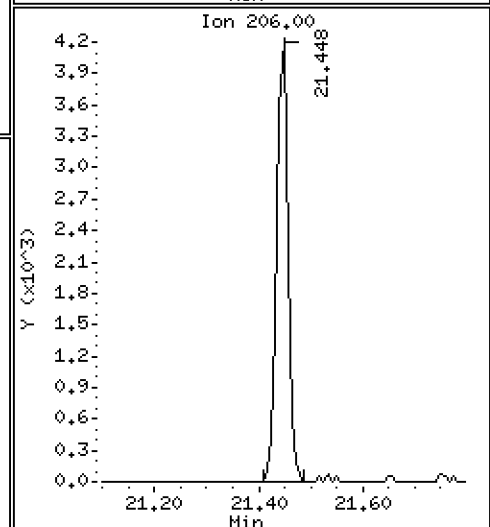
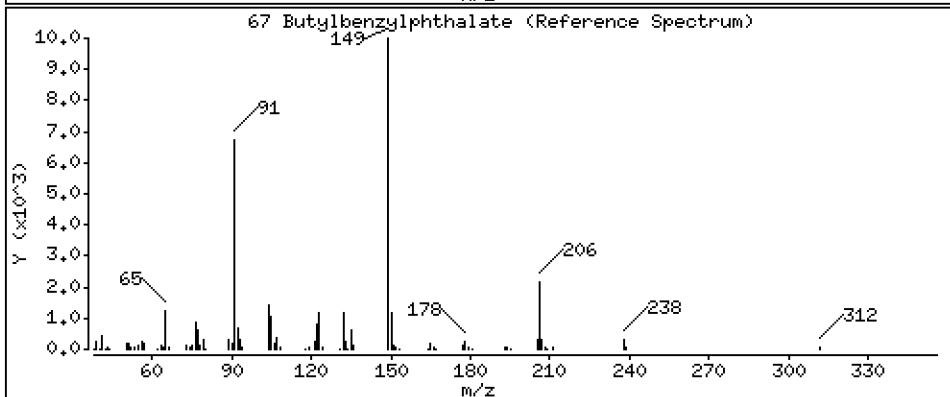
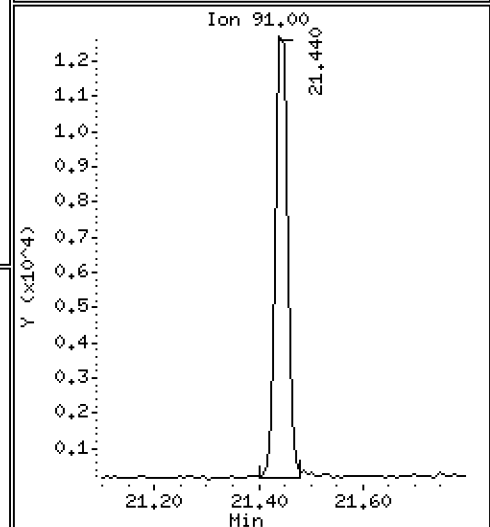
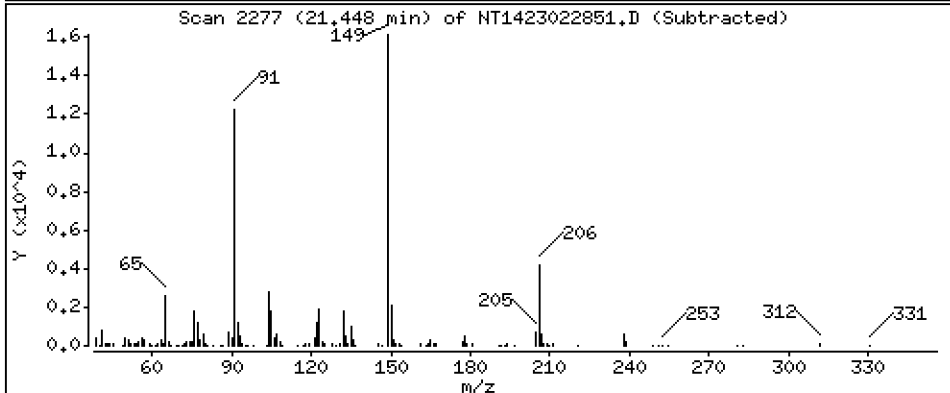
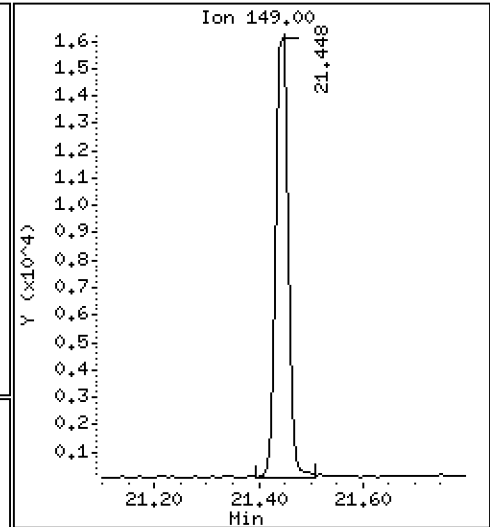
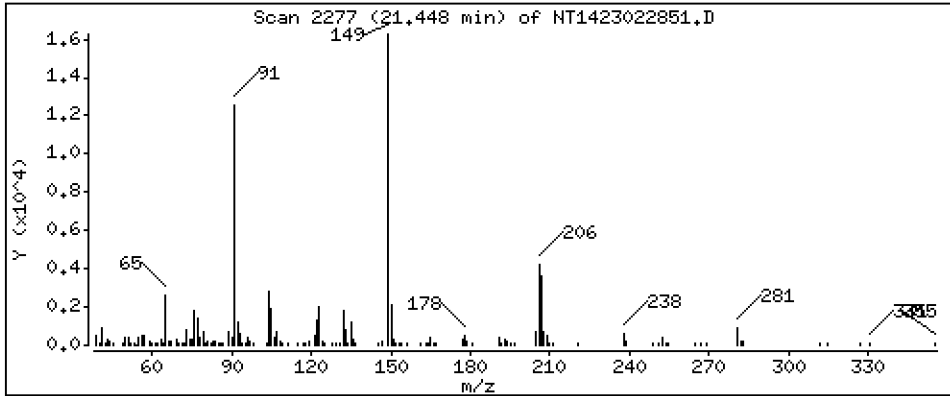
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 0,5157 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

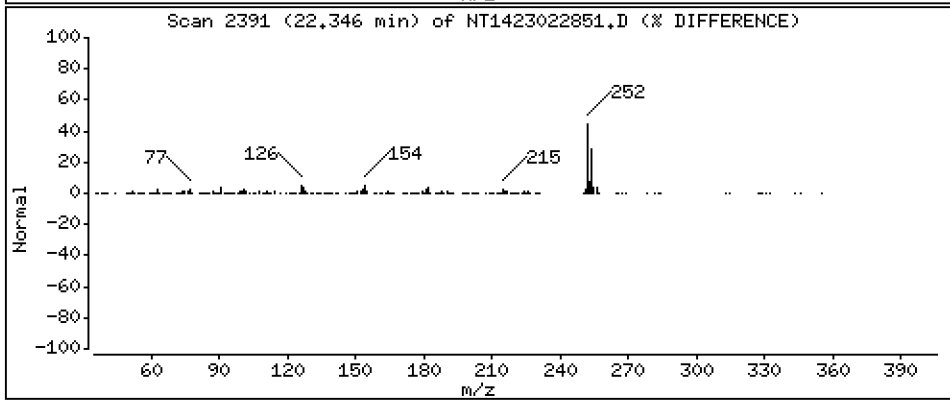
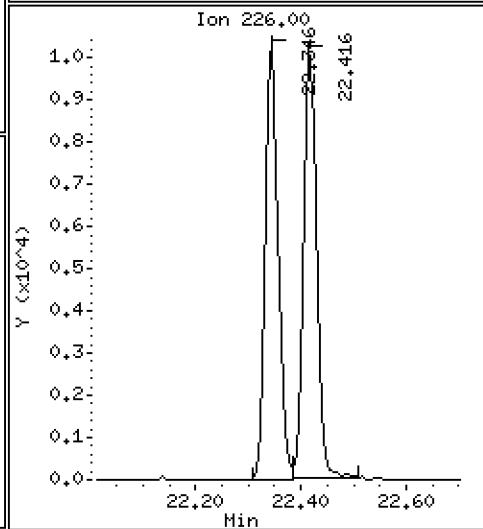
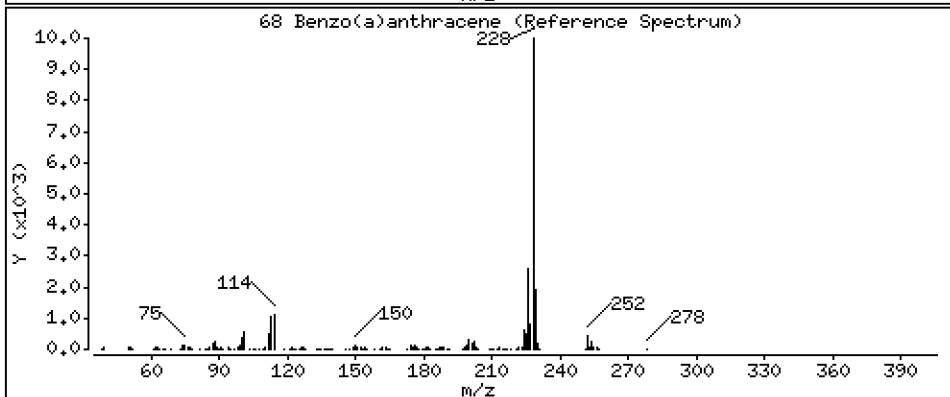
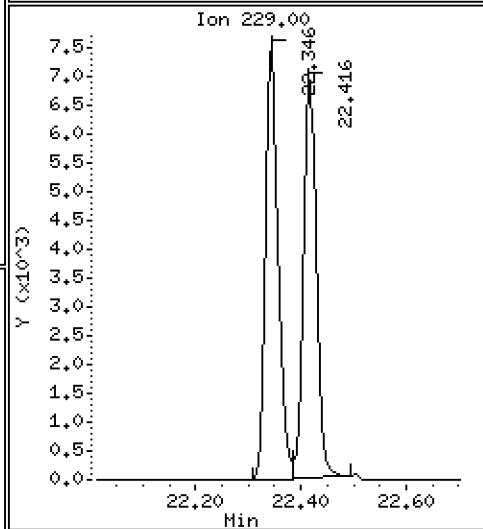
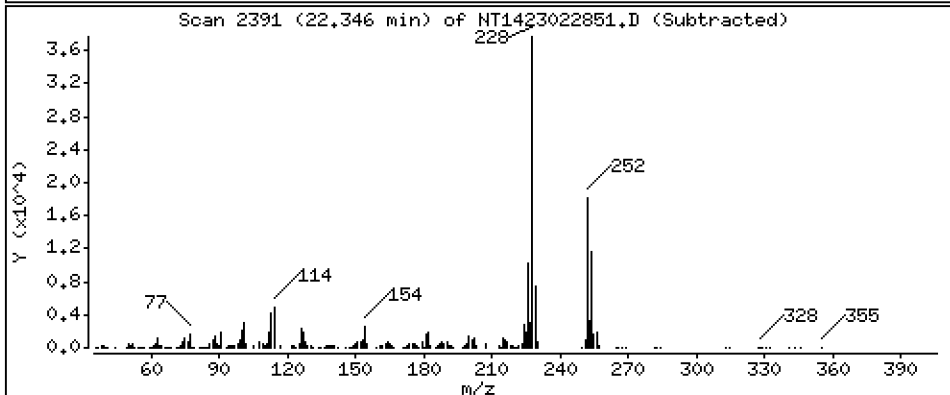
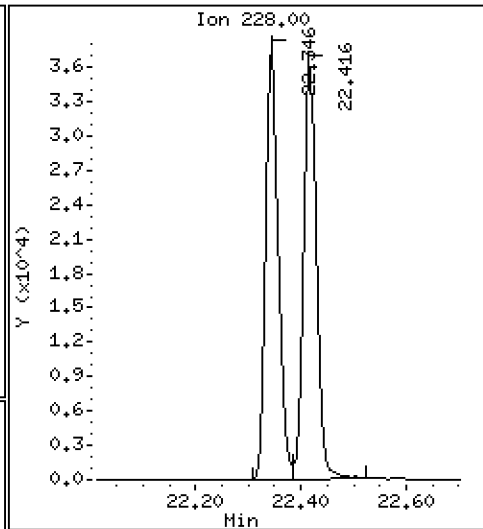
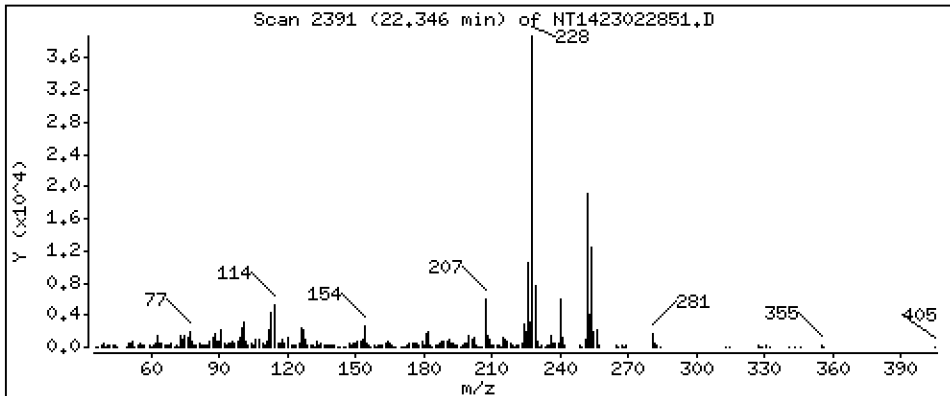
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 0,5494 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

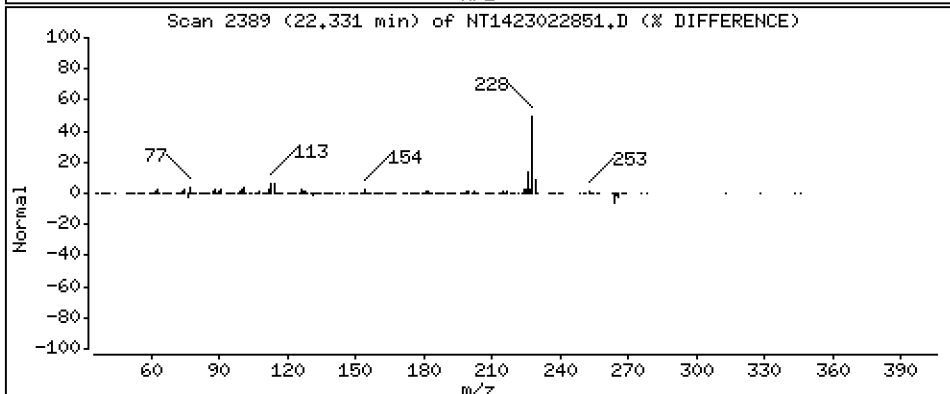
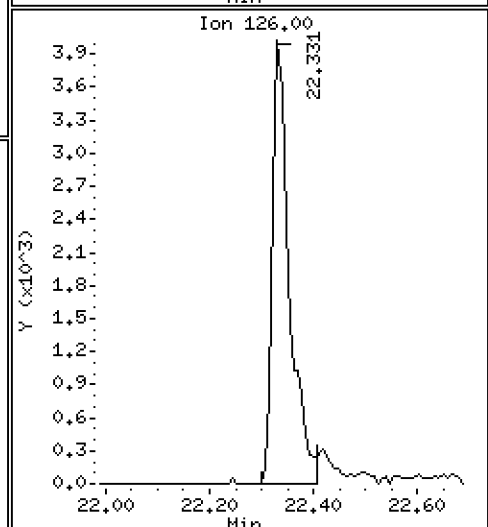
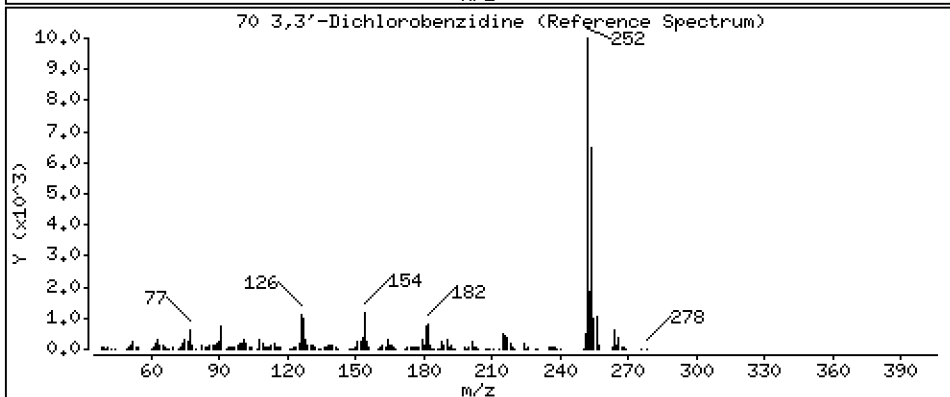
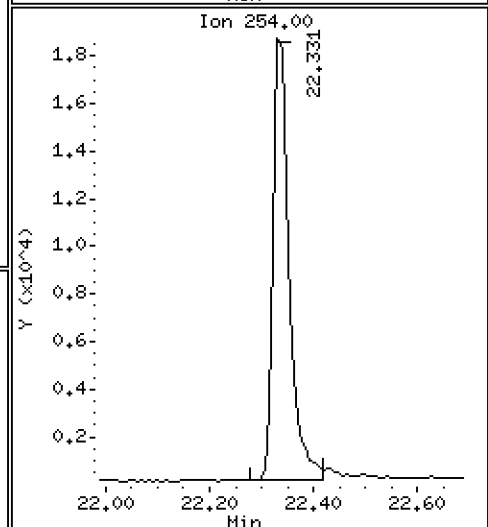
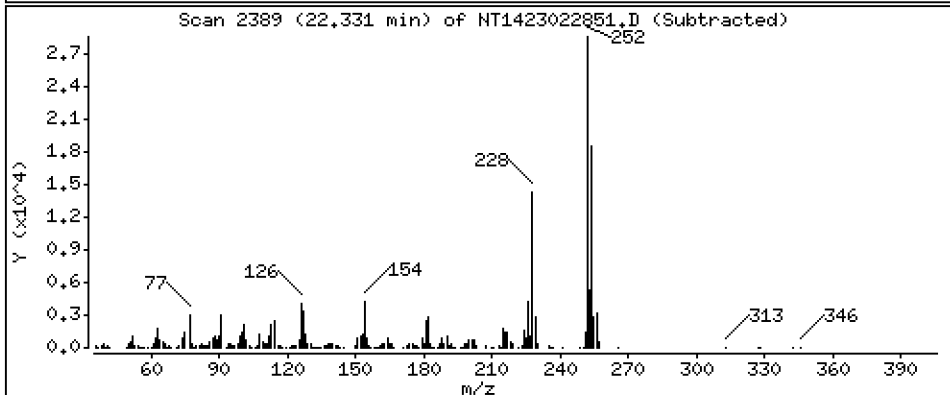
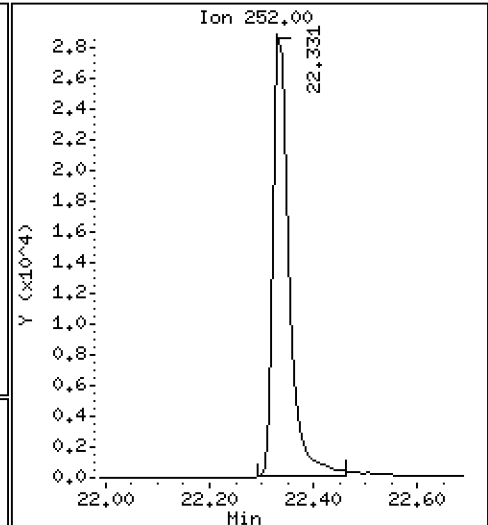
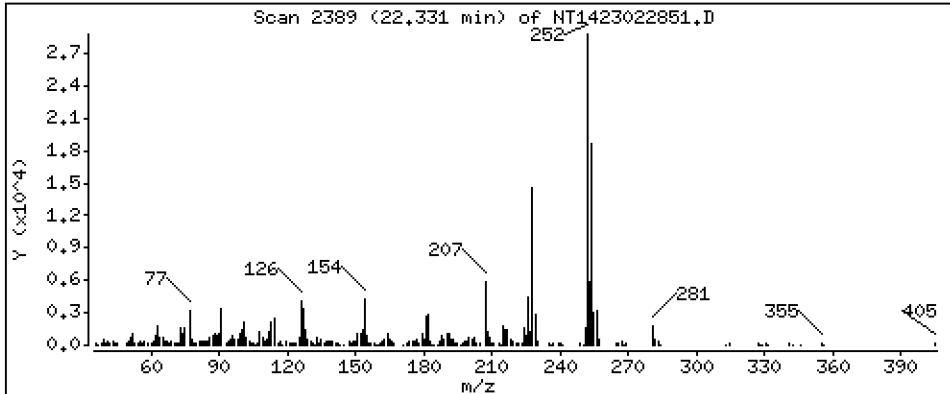
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

70 3,3'-Dichlorobenzidine

Concentration: 1,836 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

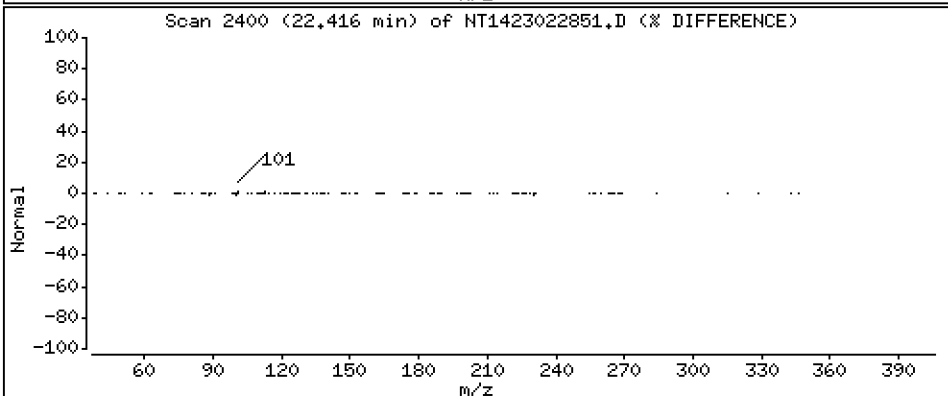
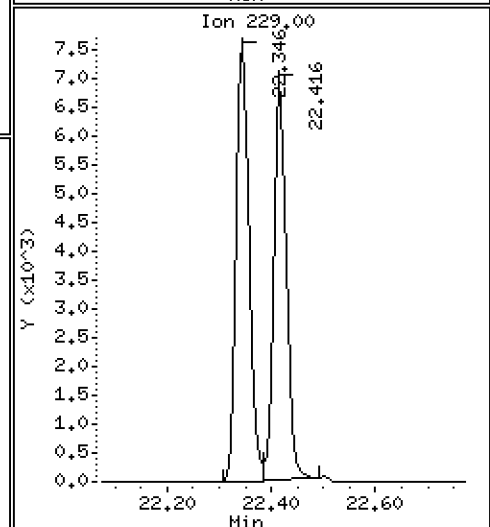
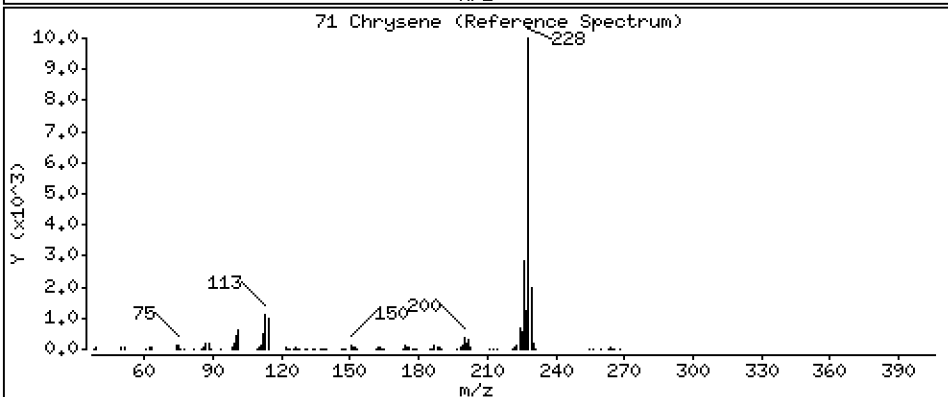
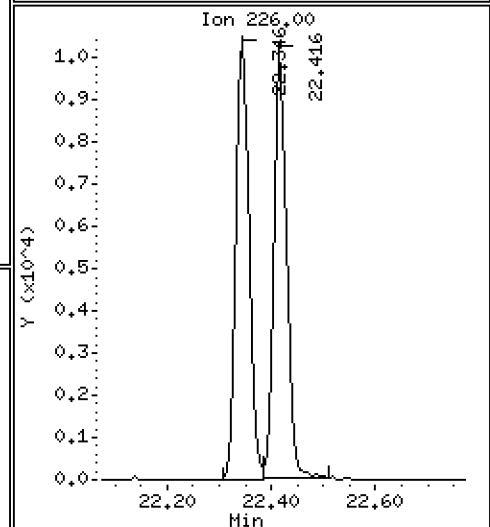
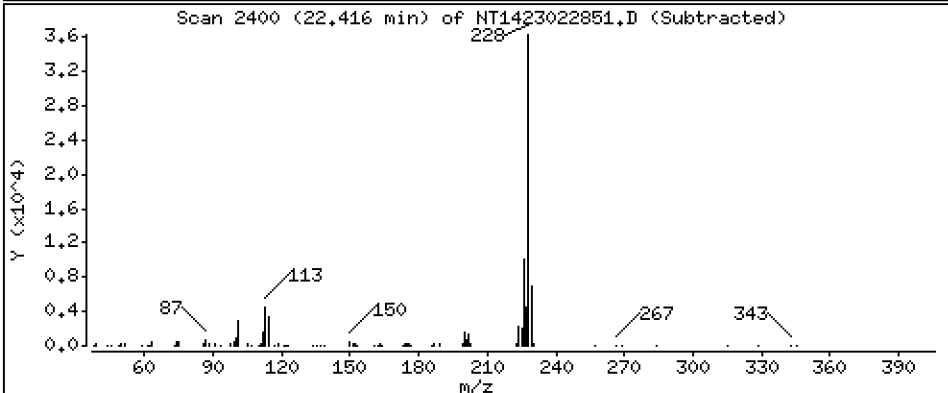
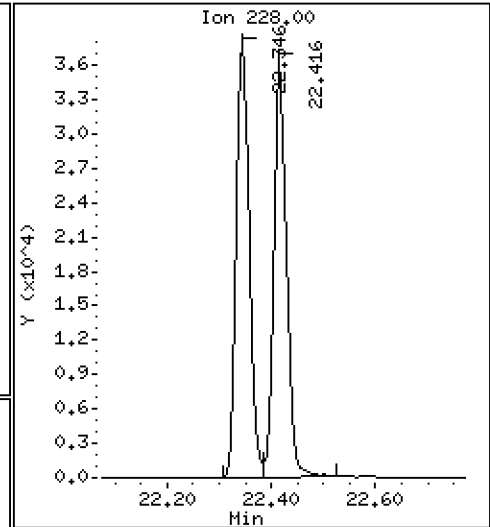
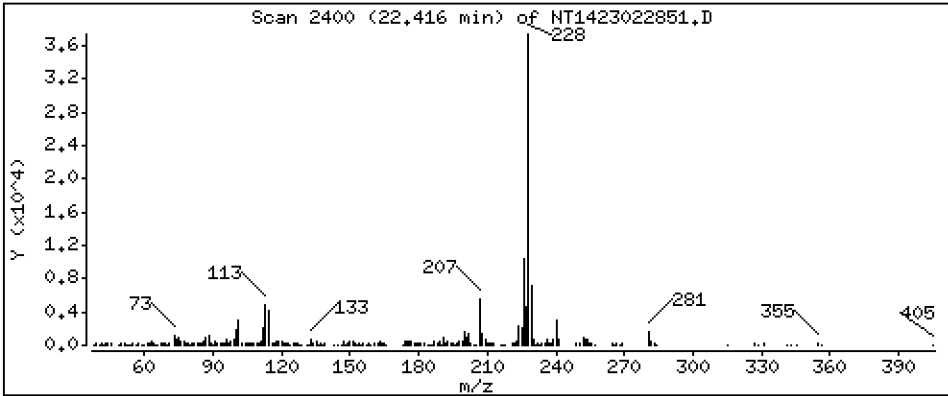
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 0,5382 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

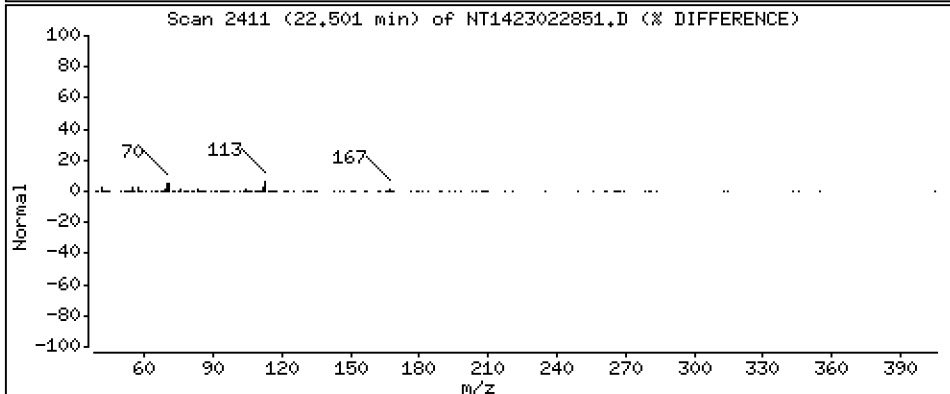
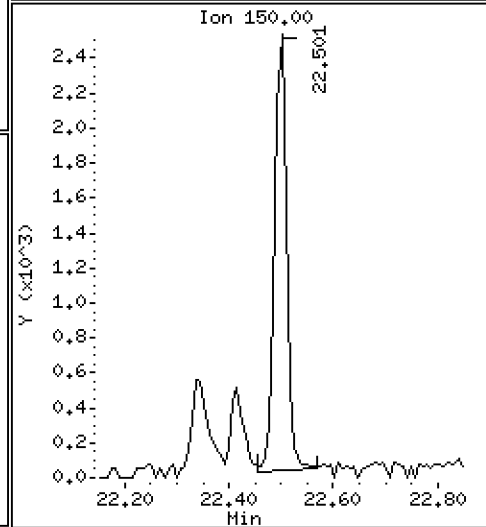
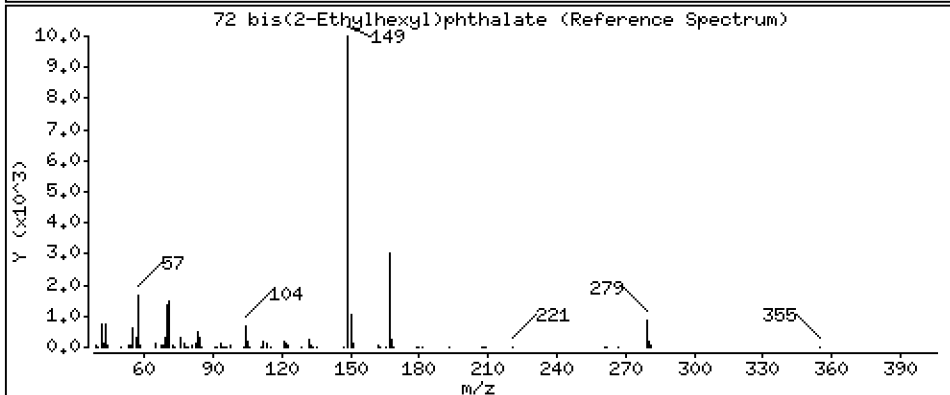
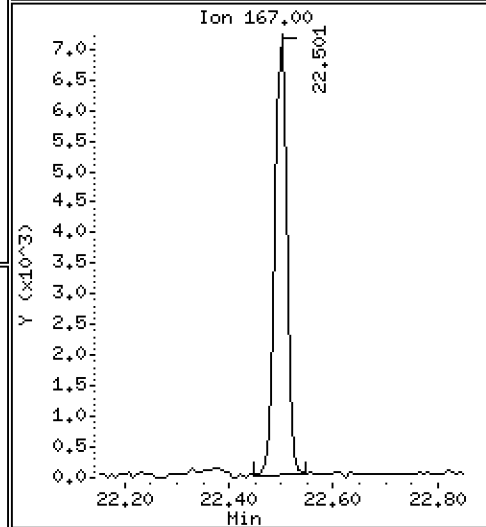
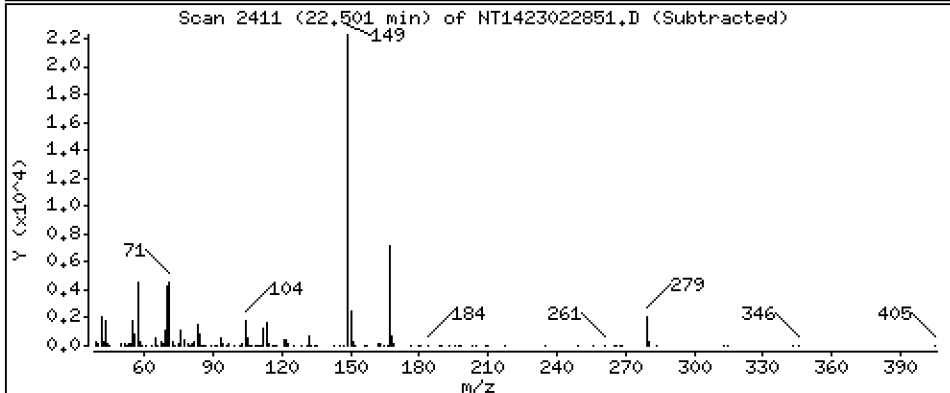
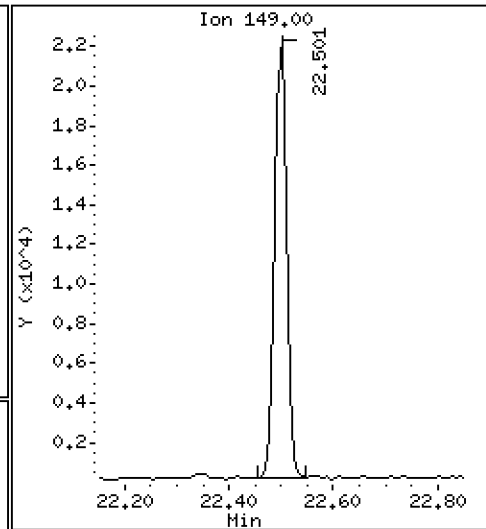
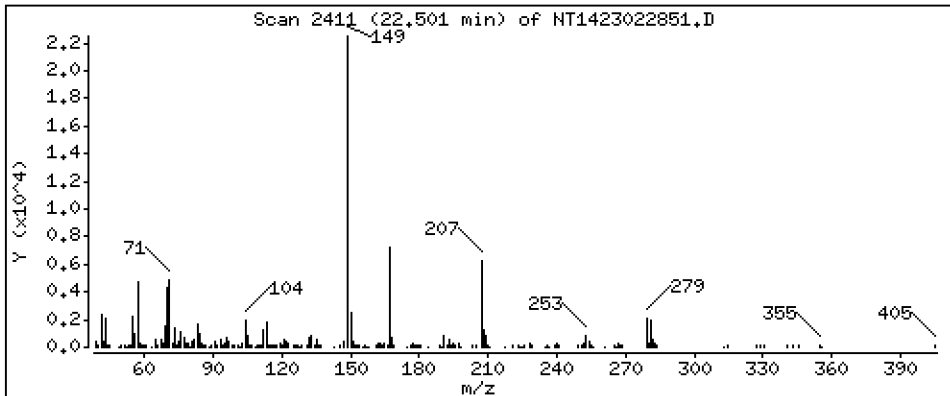
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 0,4540 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

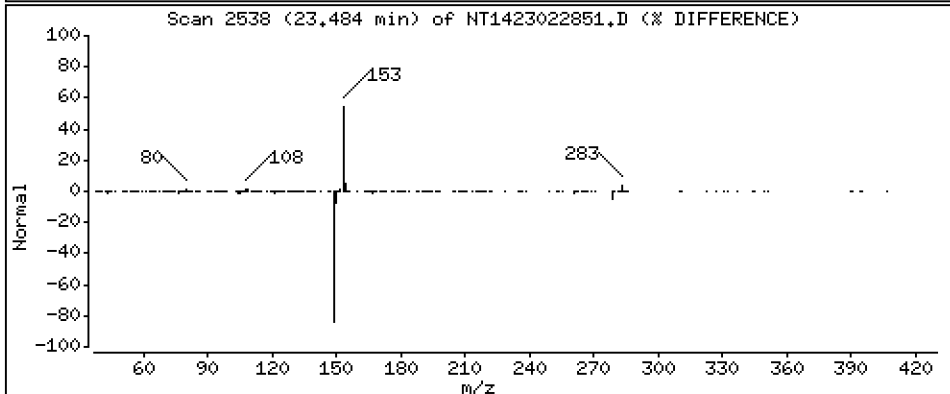
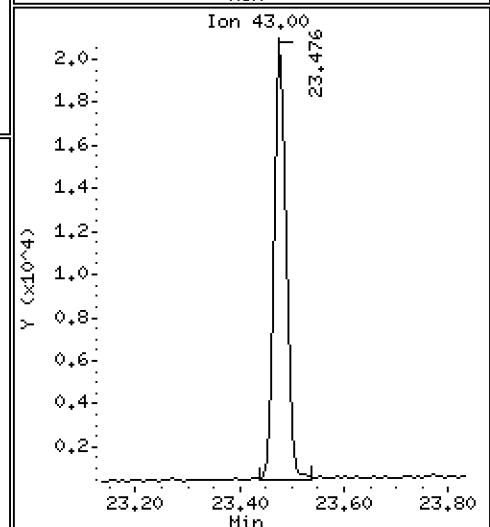
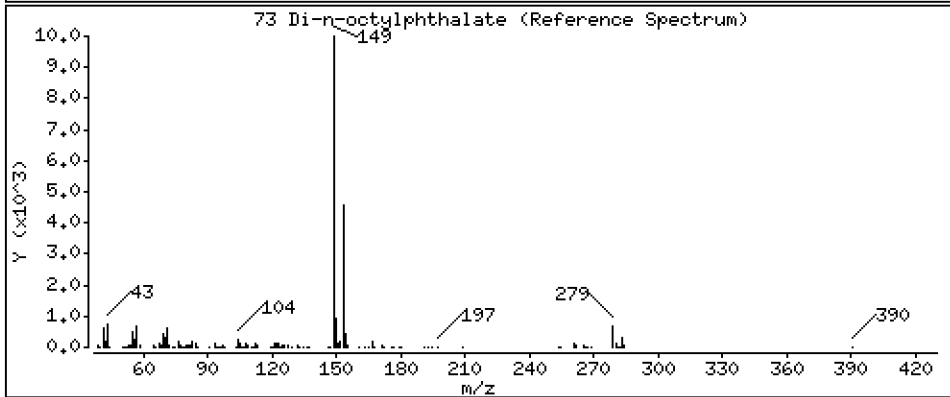
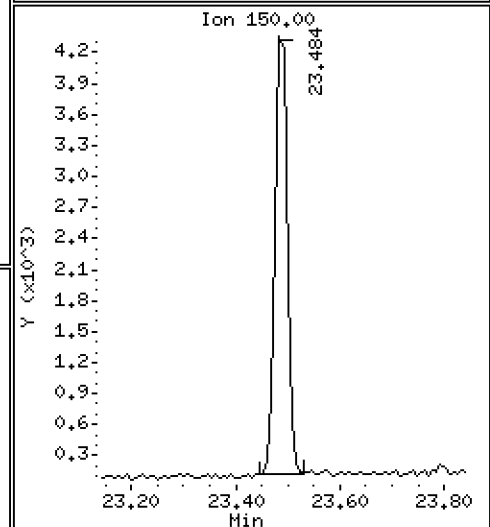
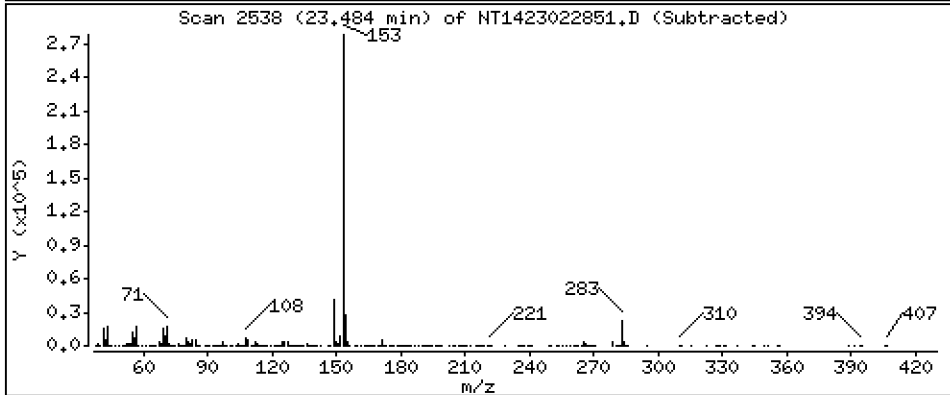
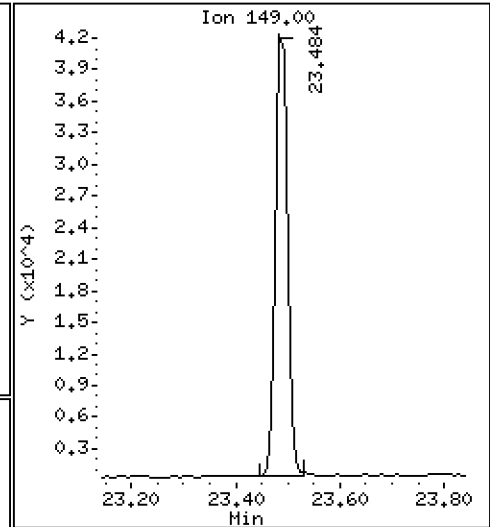
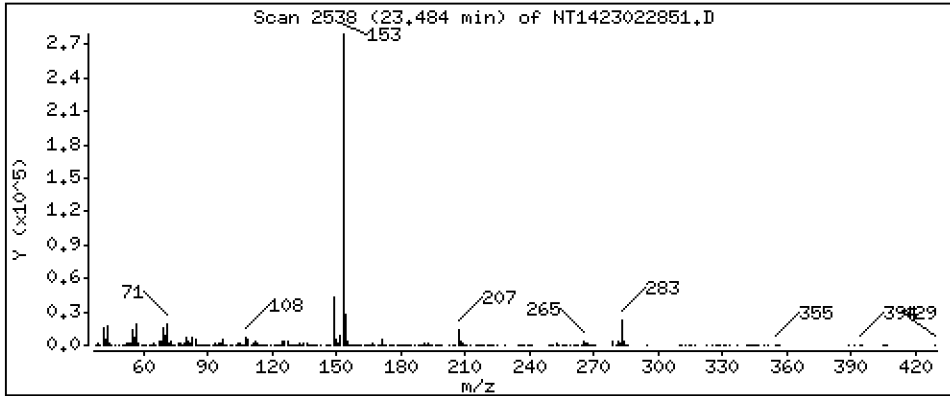
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 0,5007 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

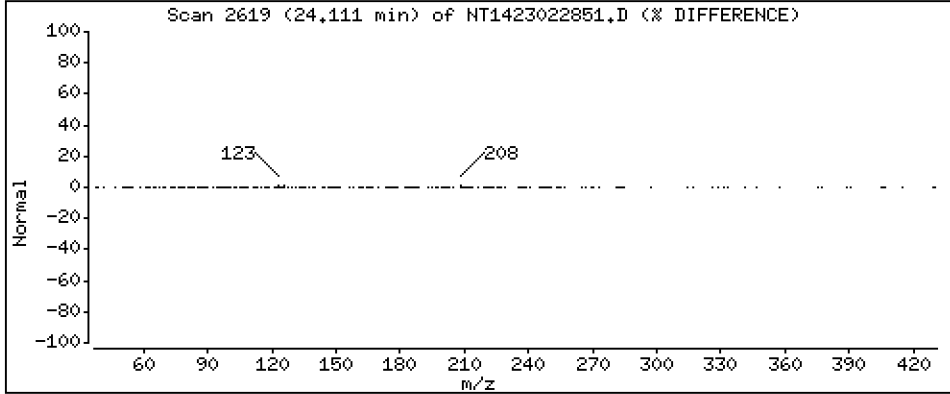
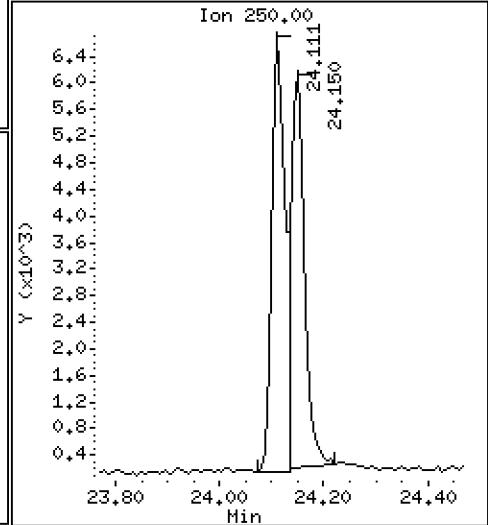
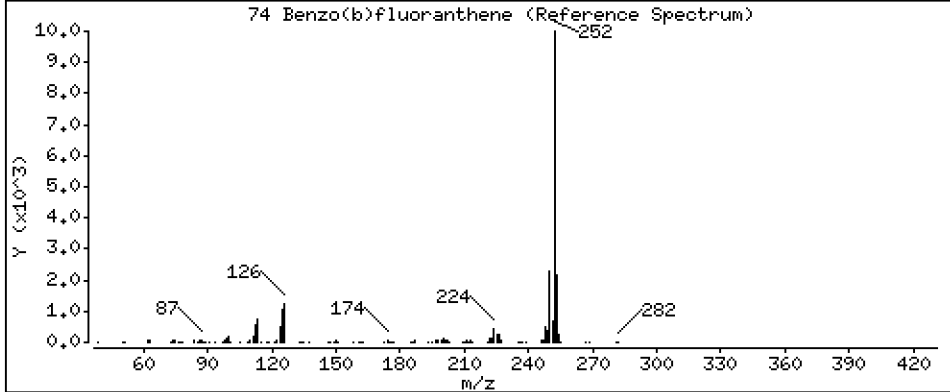
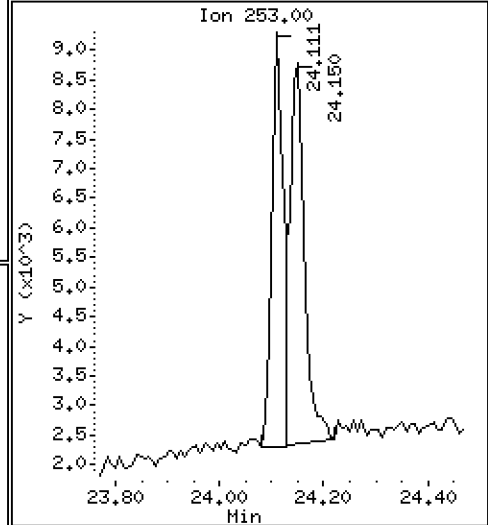
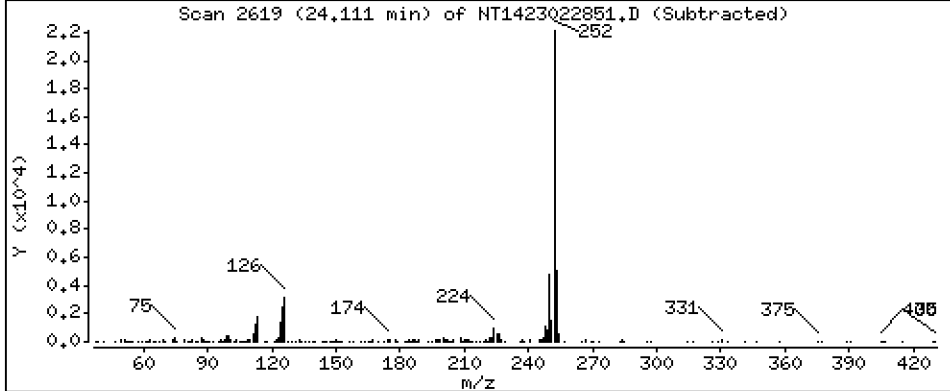
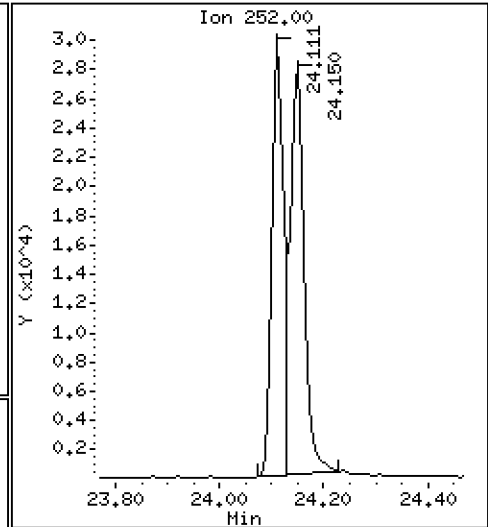
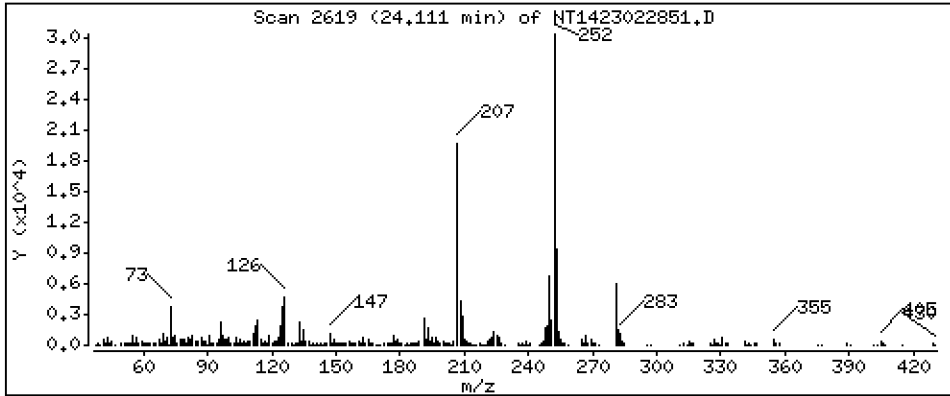
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 0,5764 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

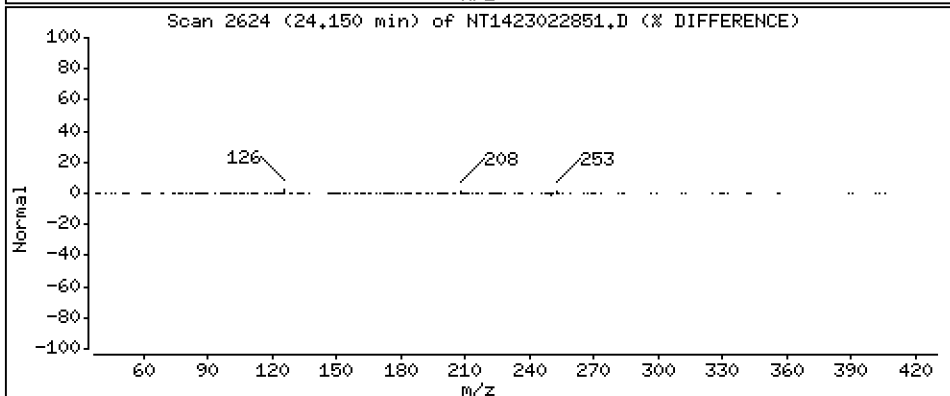
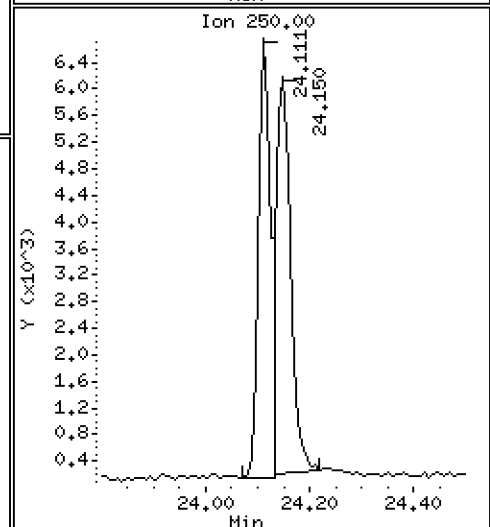
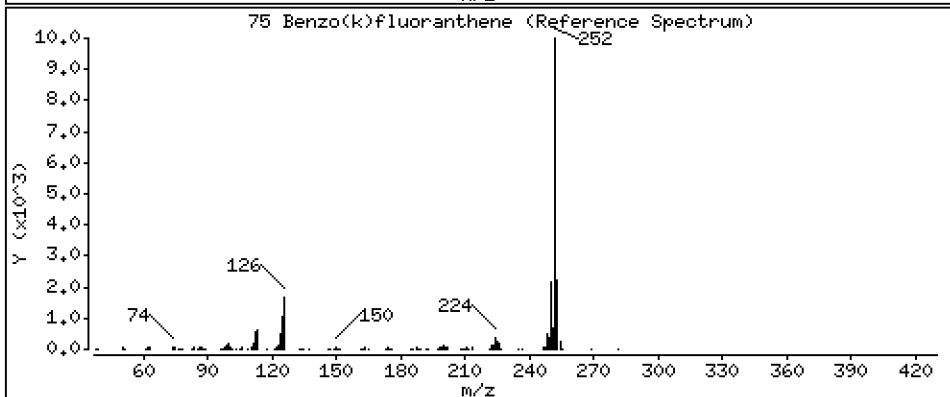
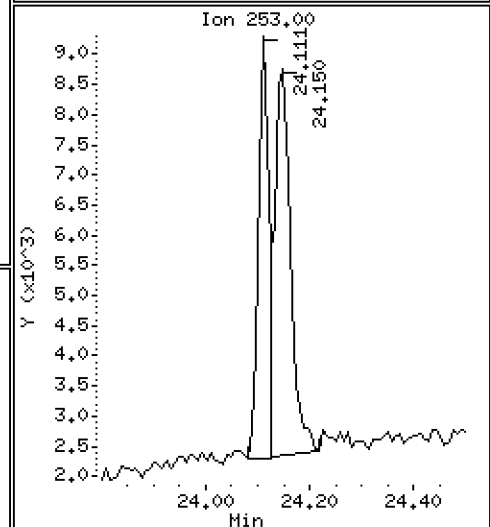
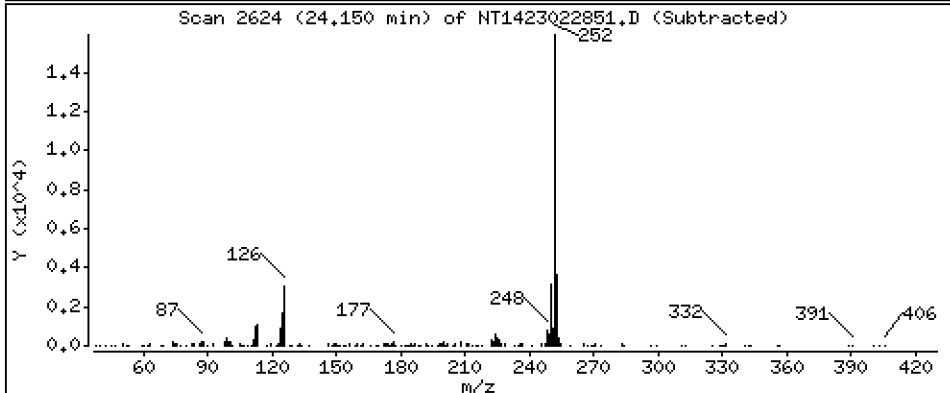
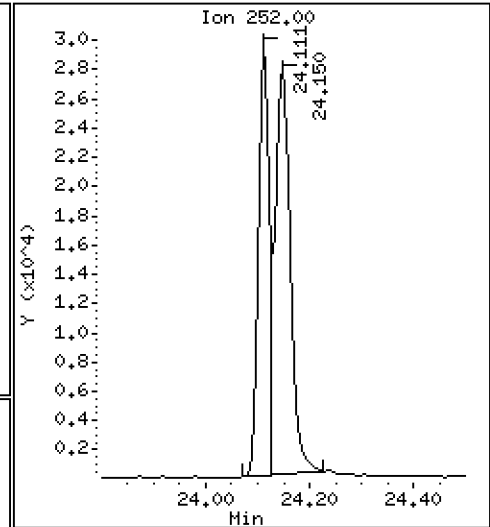
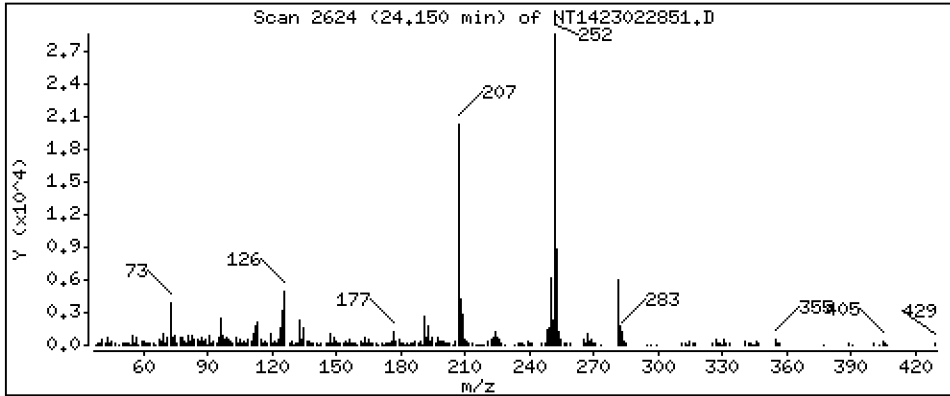
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 0,6743 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

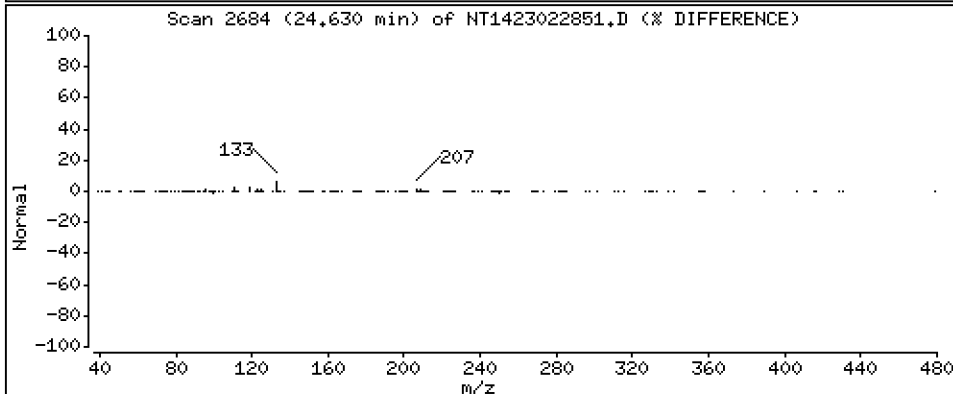
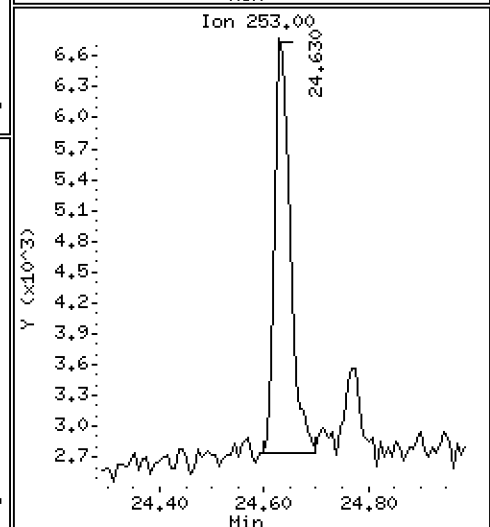
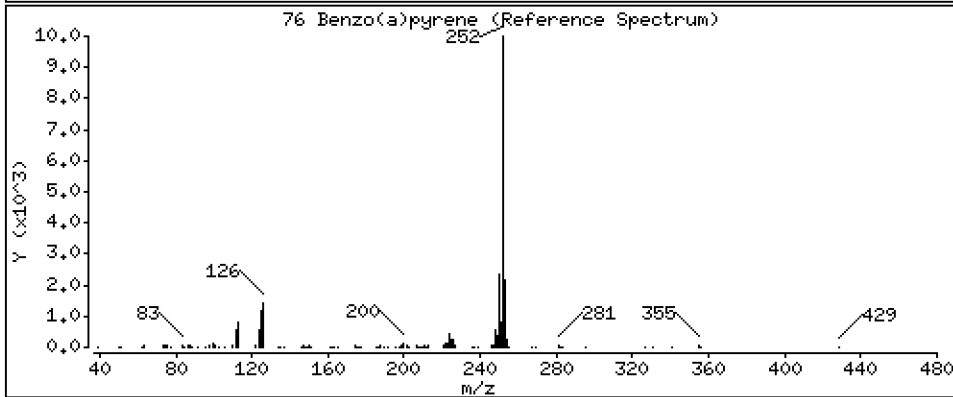
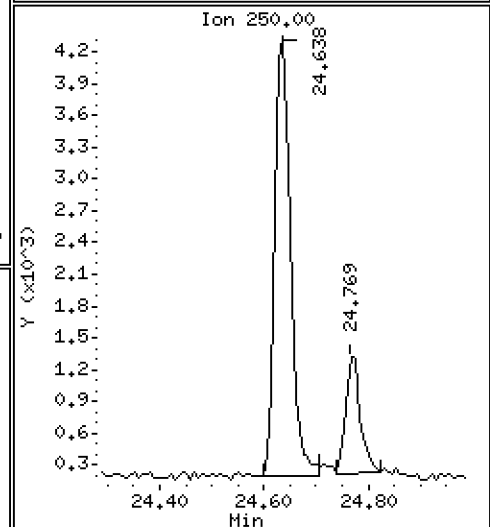
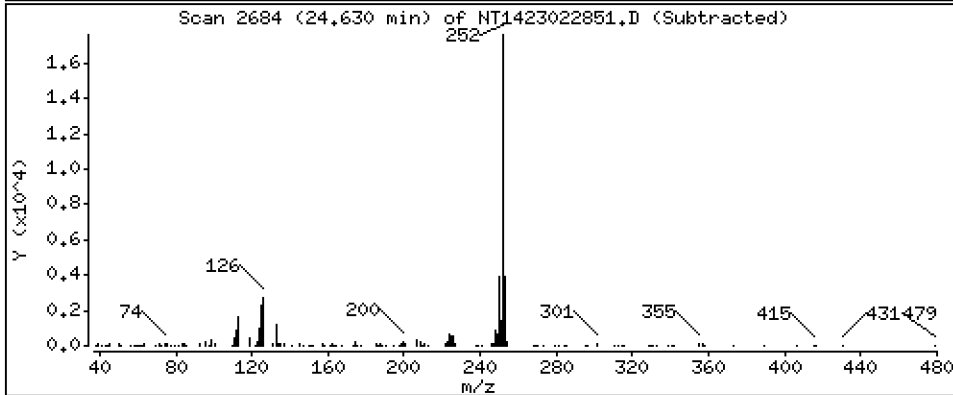
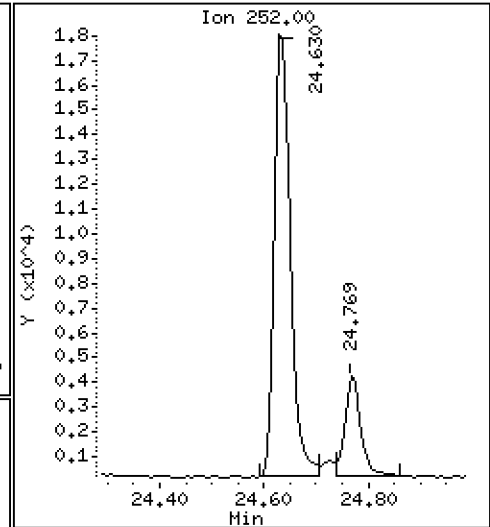
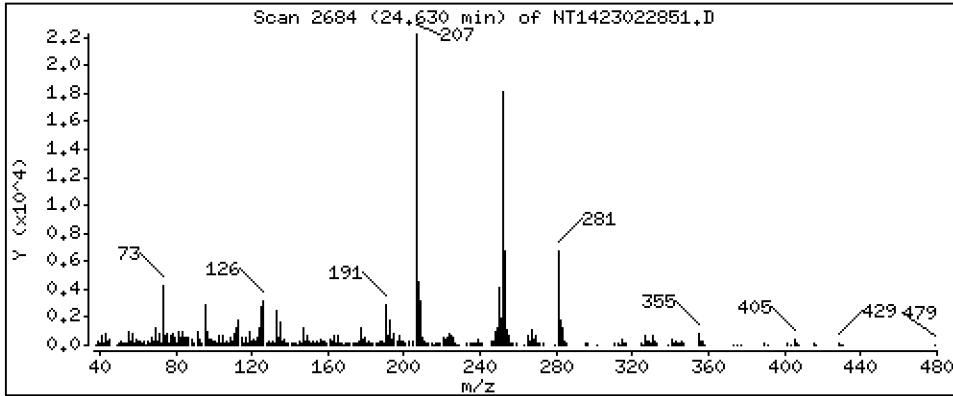
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 0,5413 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

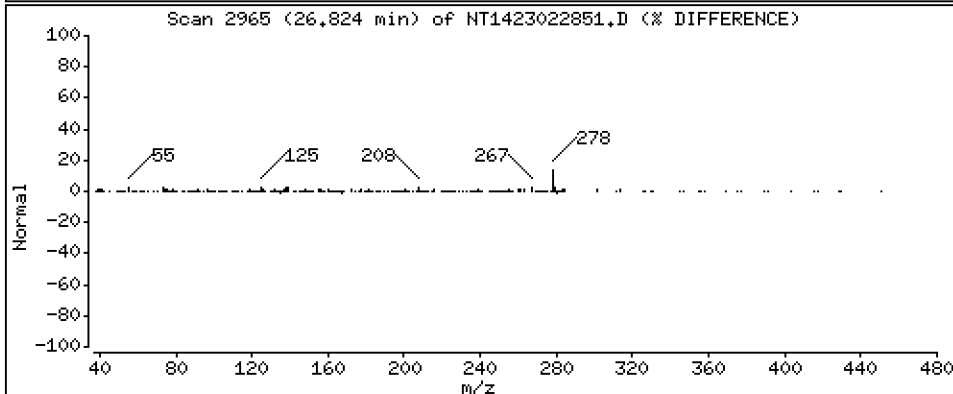
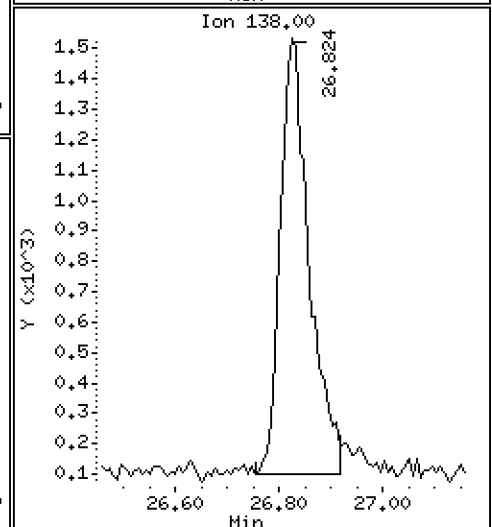
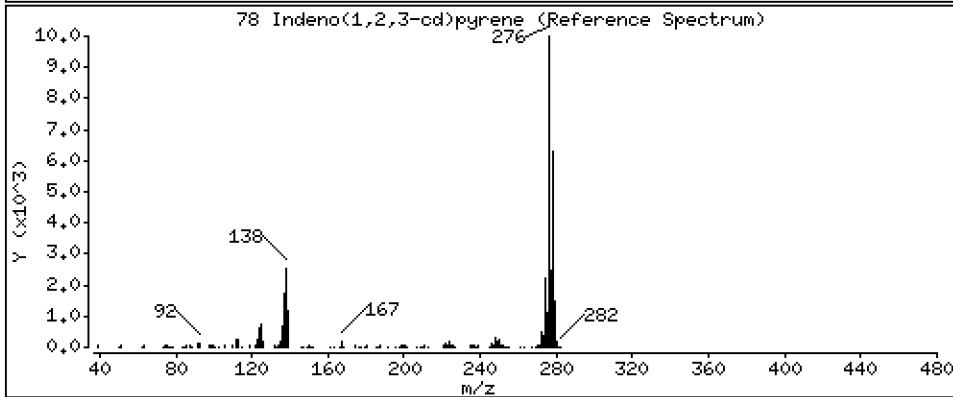
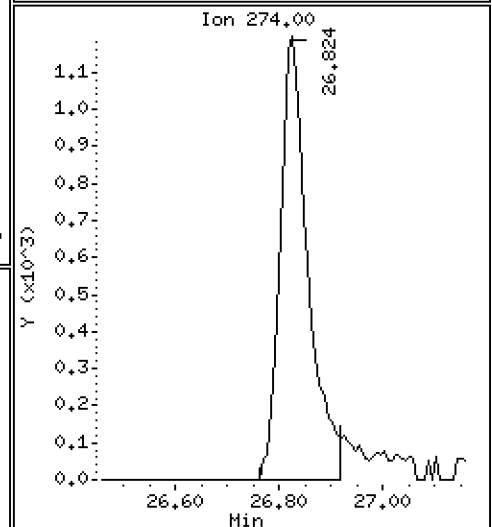
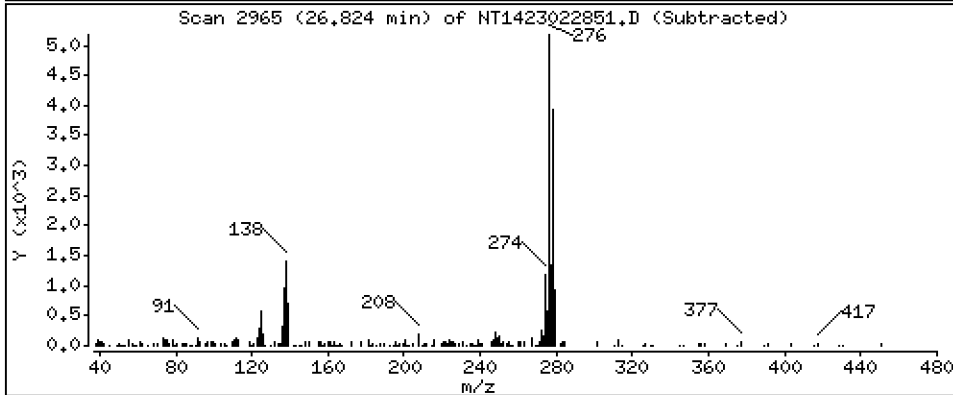
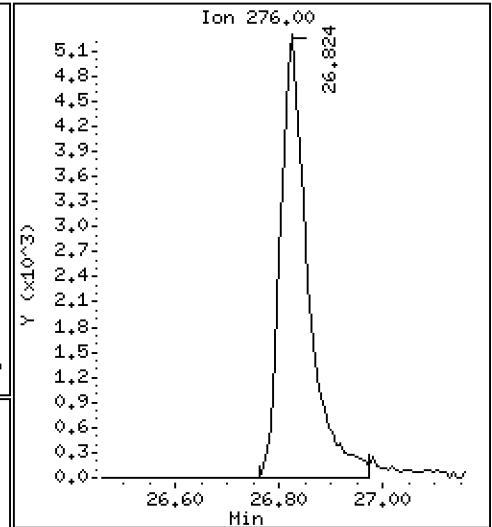
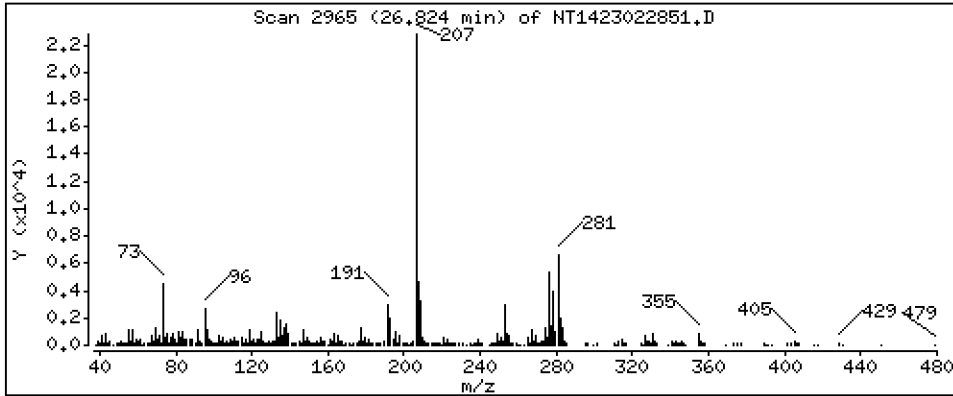
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 0,2283 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

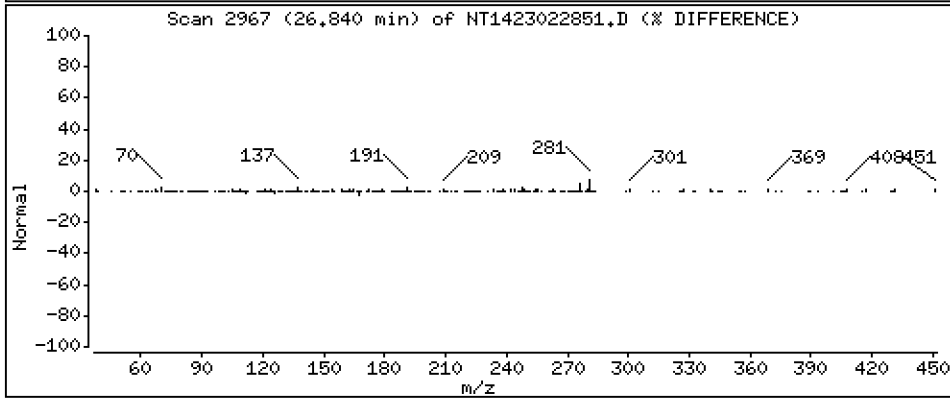
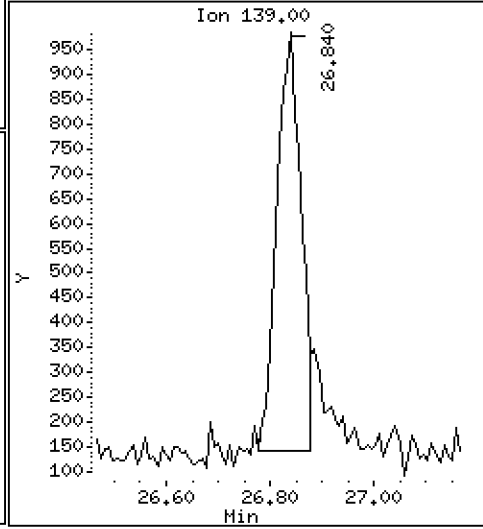
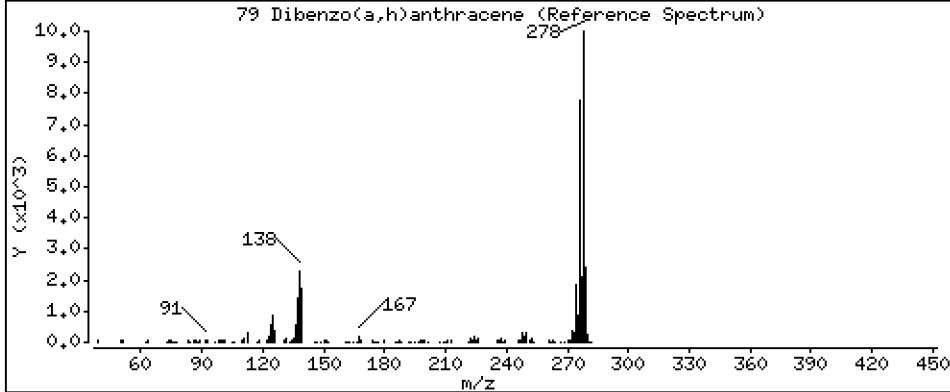
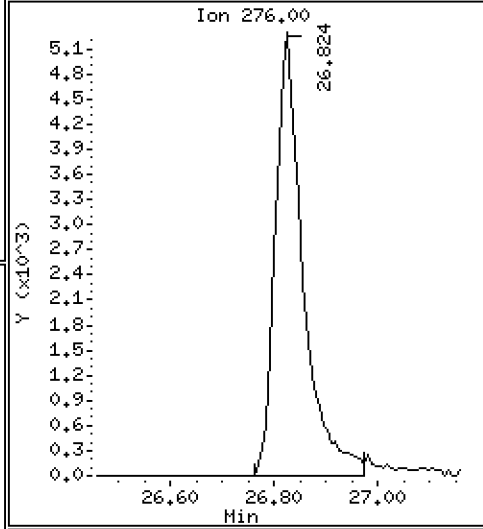
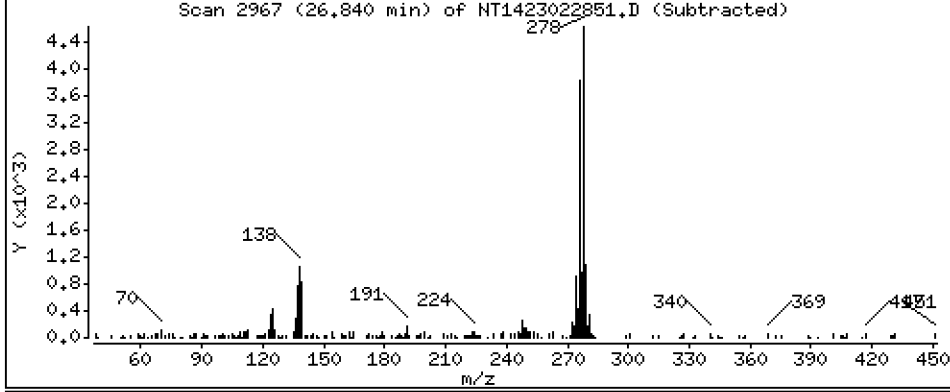
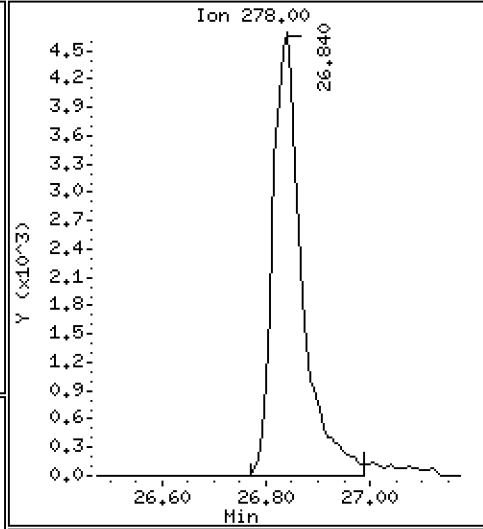
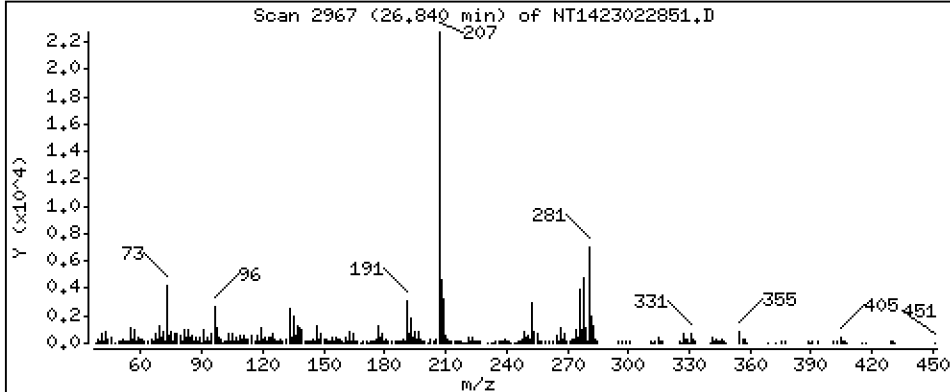
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 0,2501 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

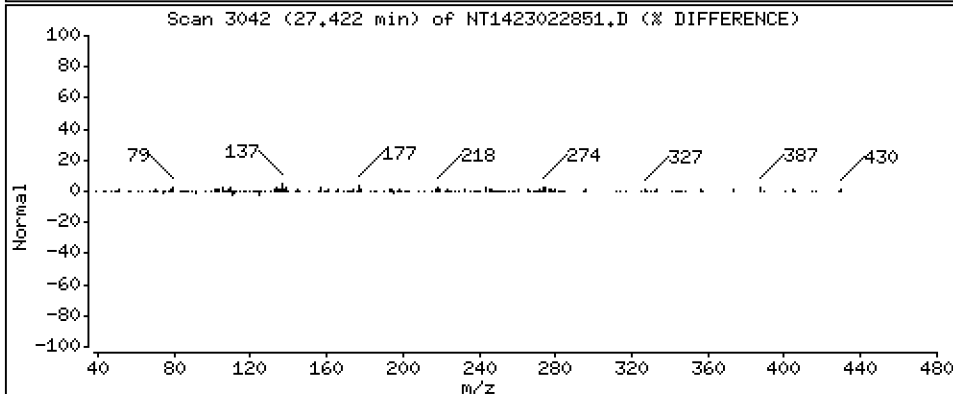
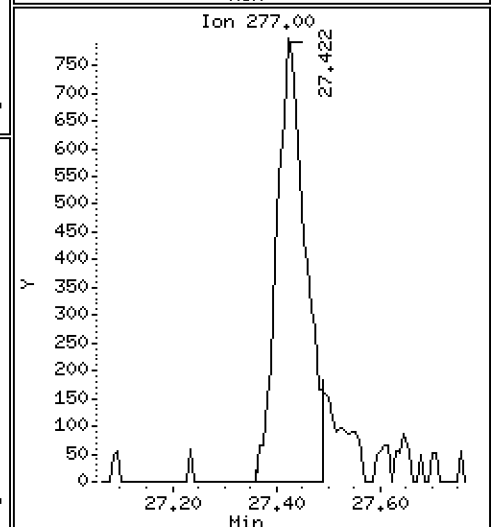
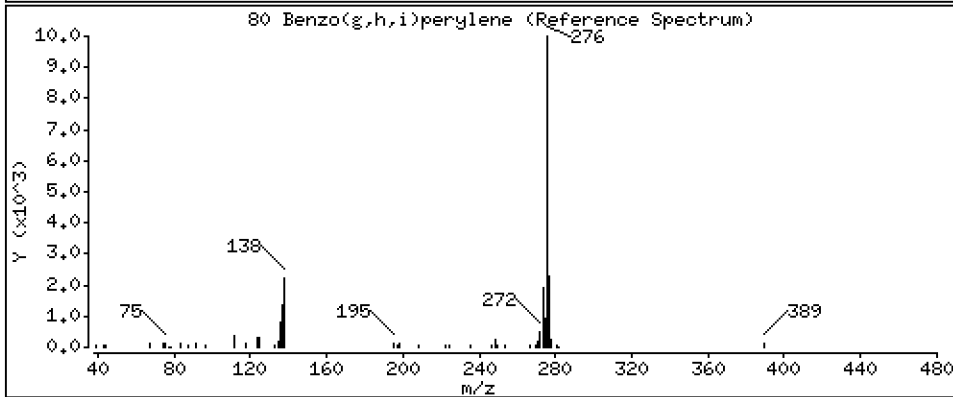
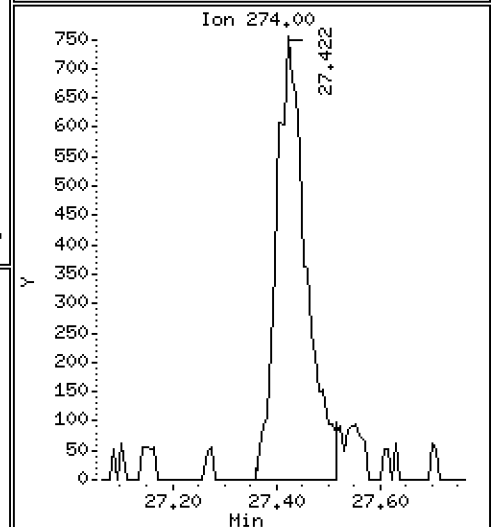
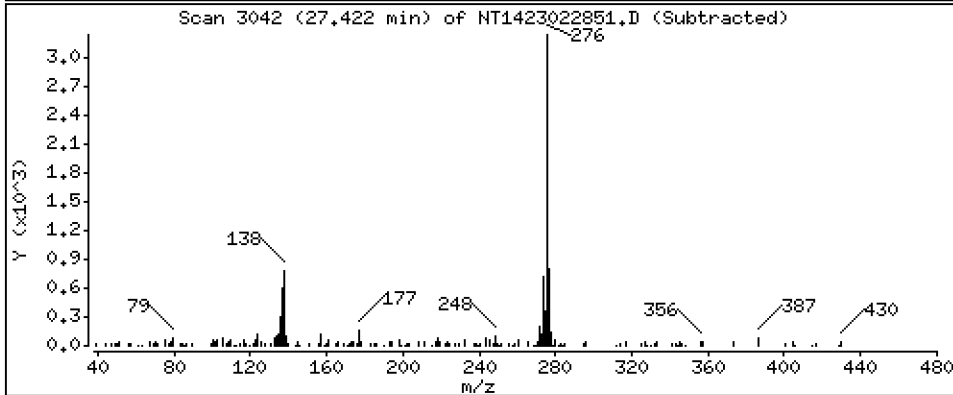
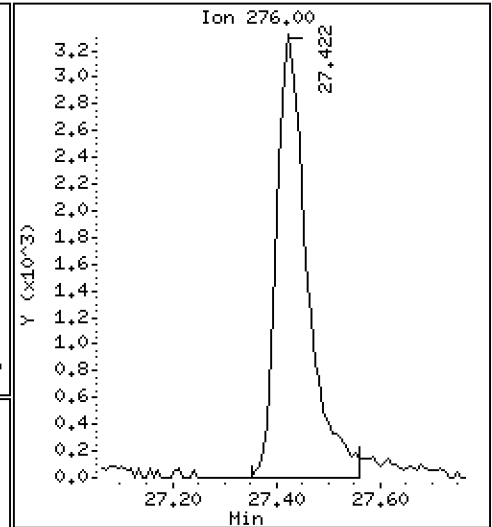
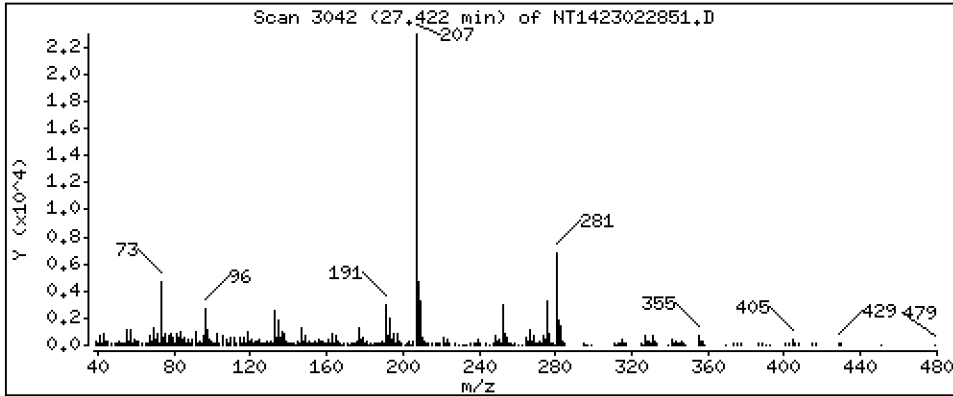
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 0,1825 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

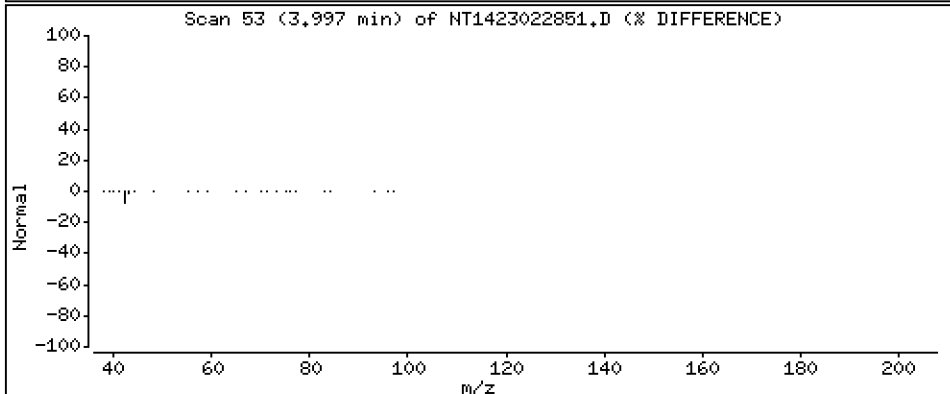
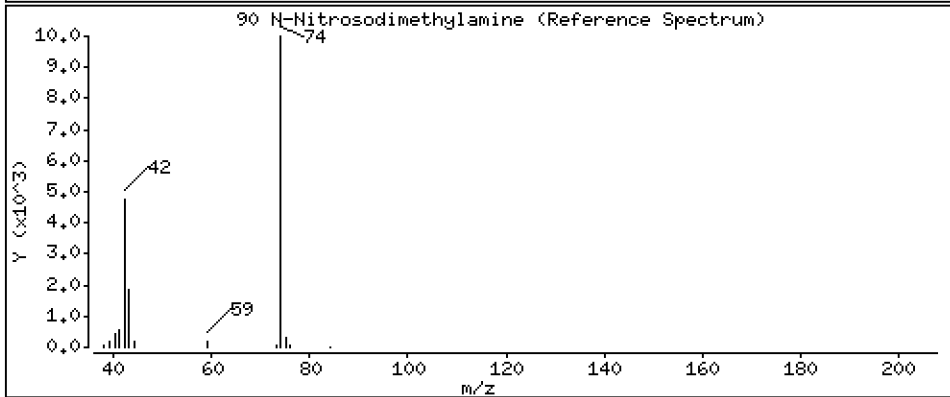
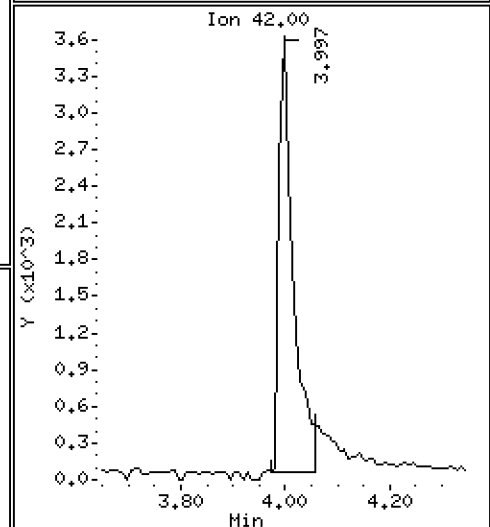
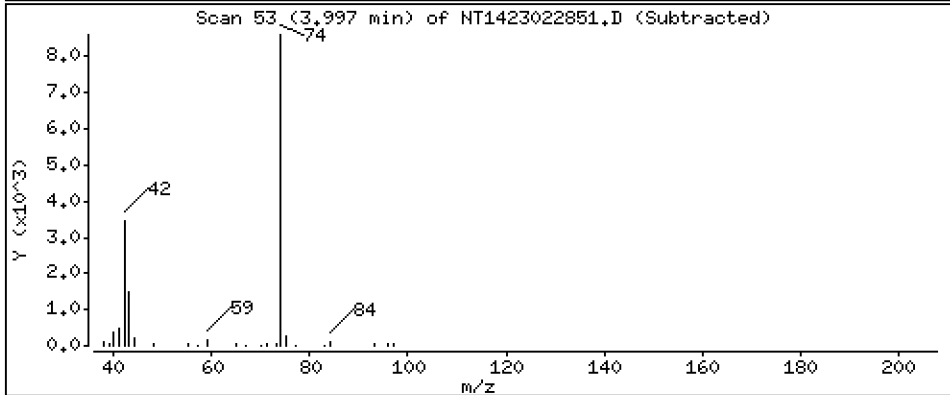
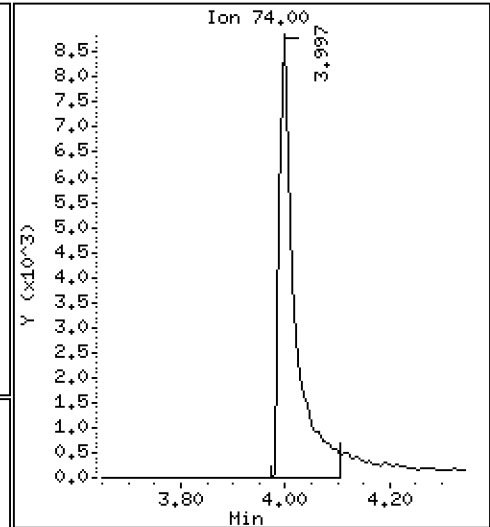
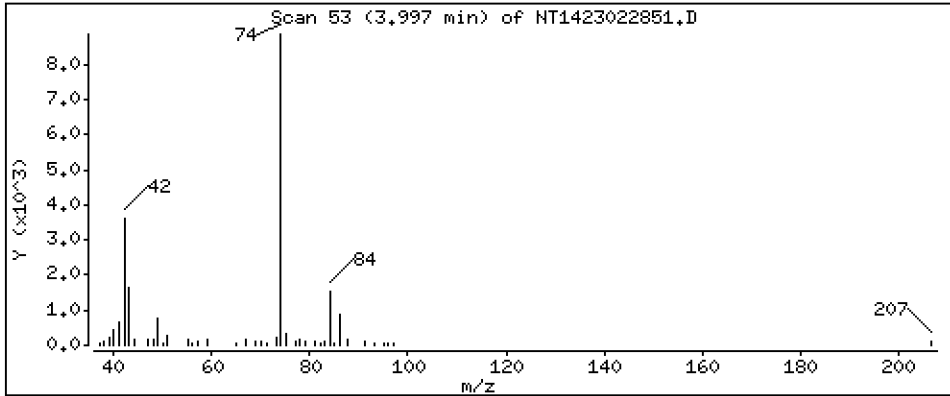
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

90 N-Nitrosodimethylamine

Concentration: 0.7828 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

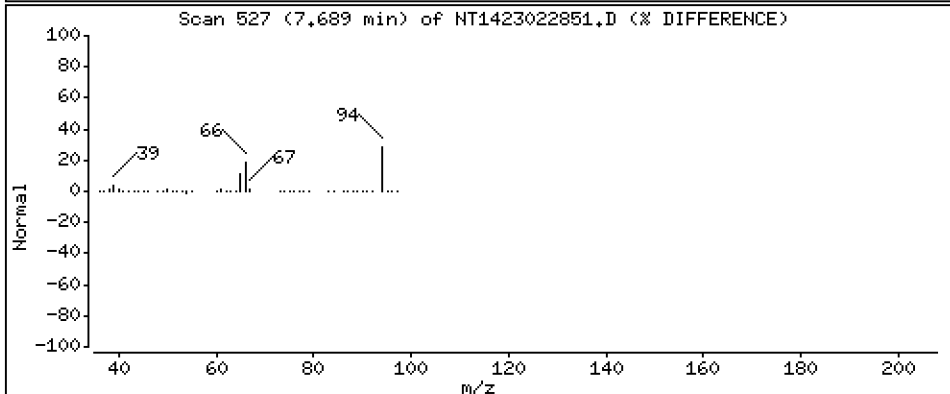
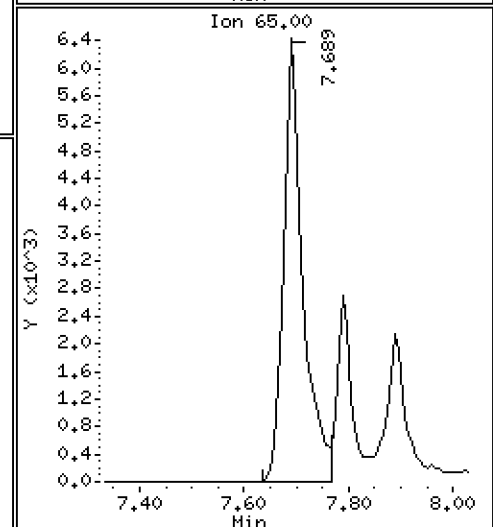
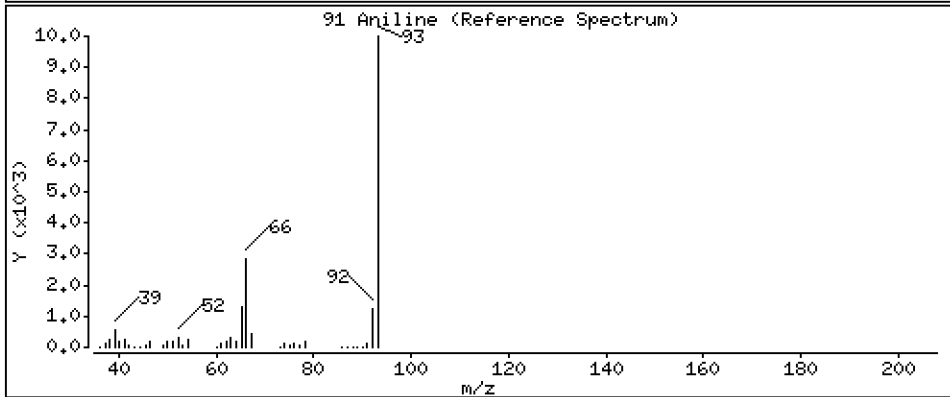
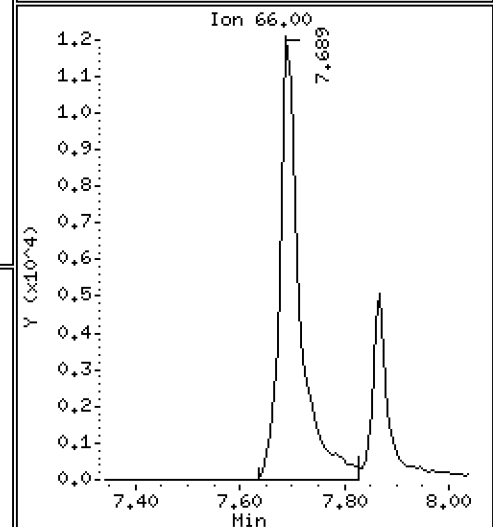
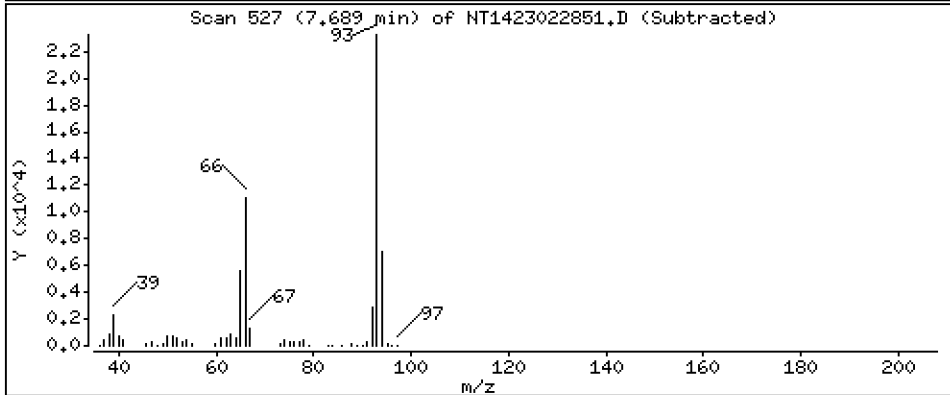
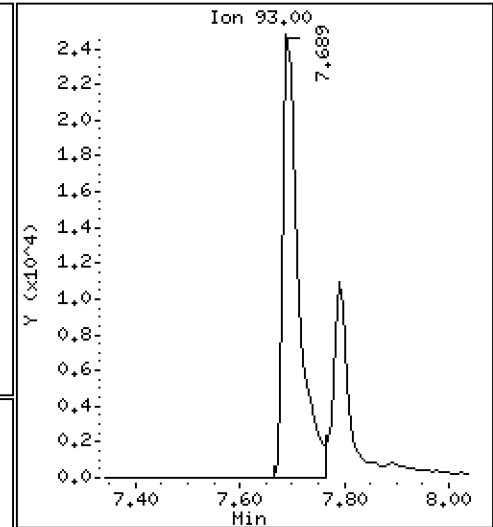
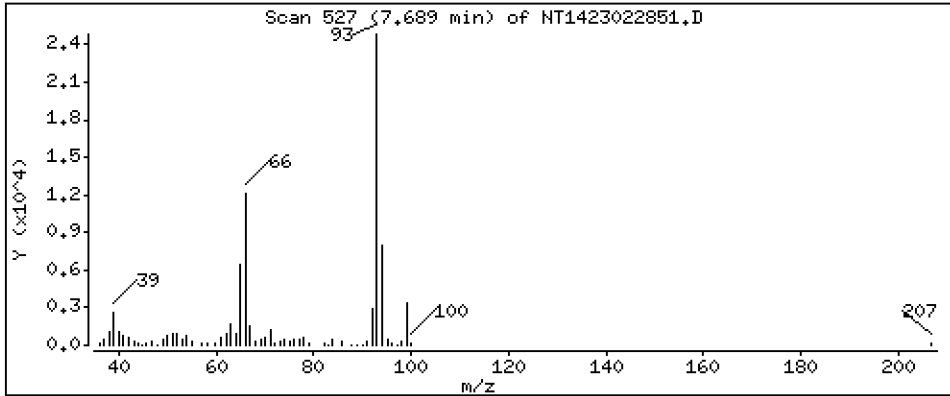
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

91 Aniline

Concentration: 0.9602 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

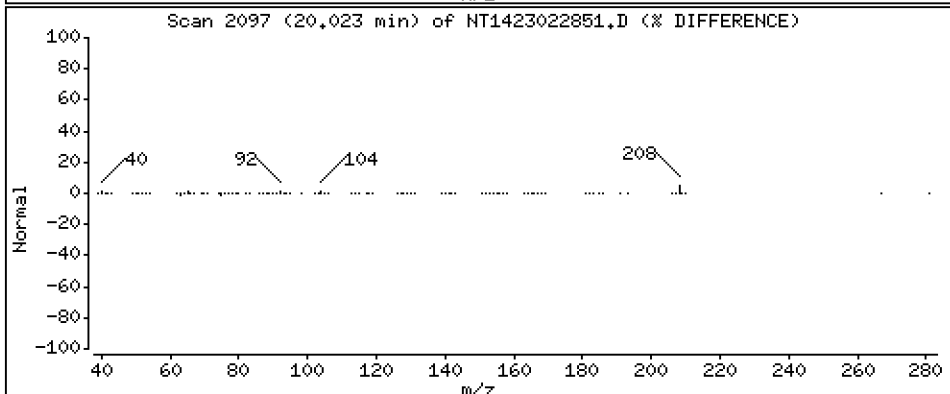
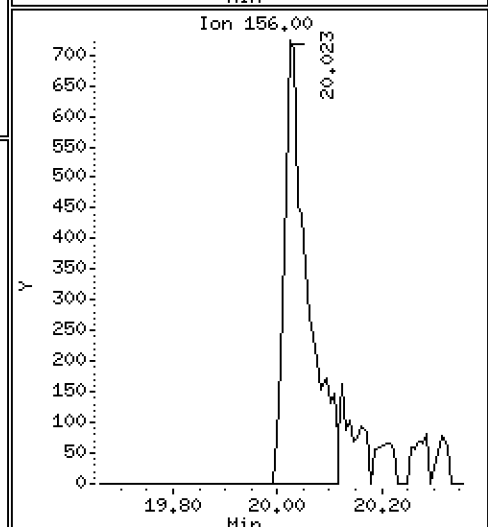
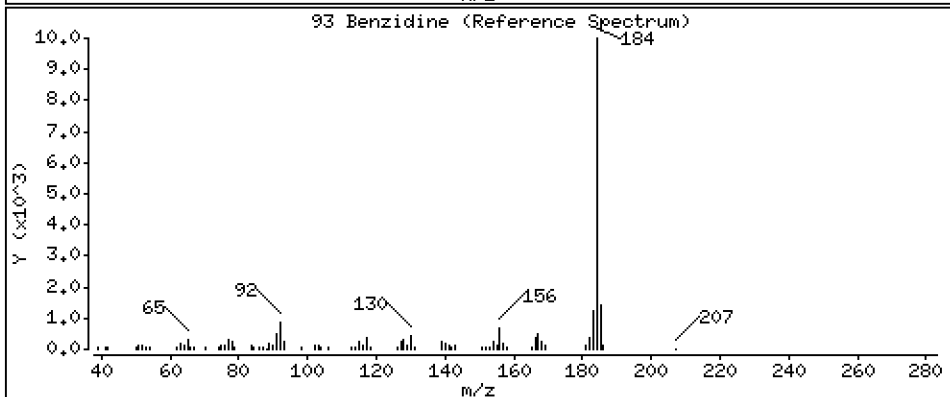
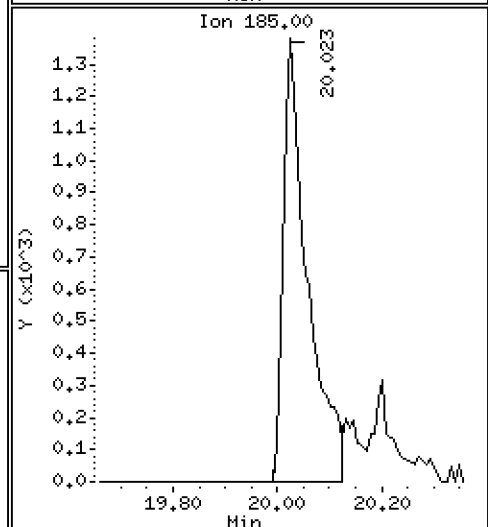
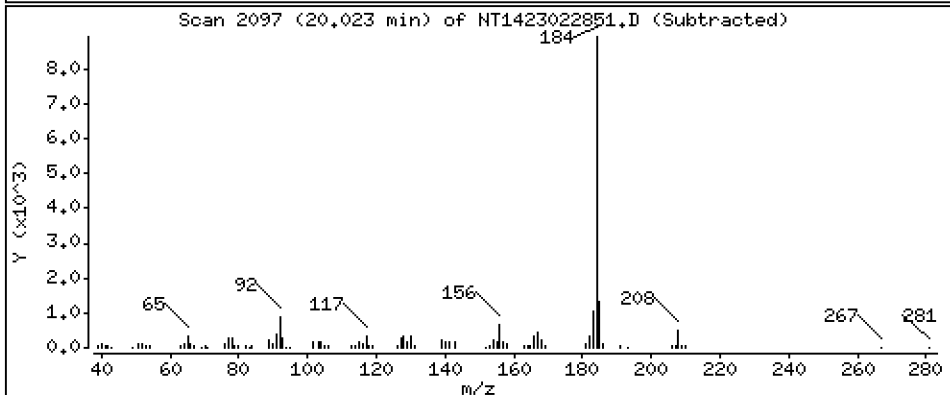
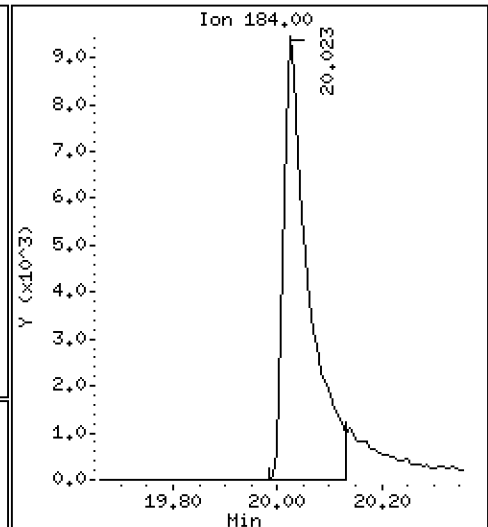
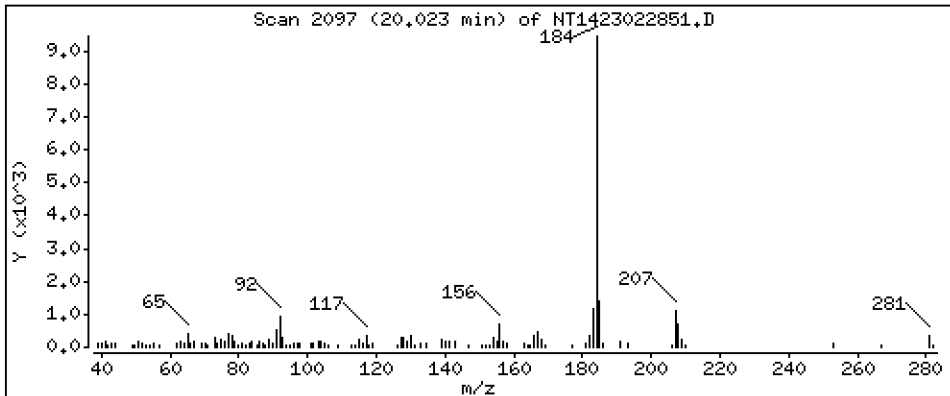
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

93 Benzidine

Concentration: 0.5720 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

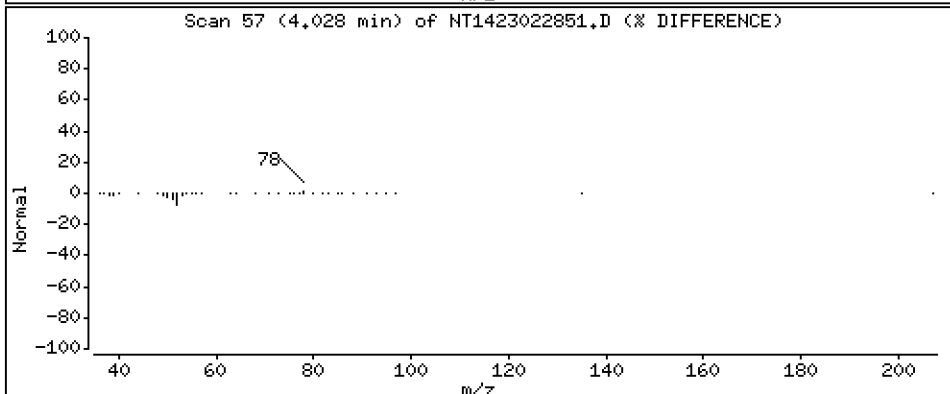
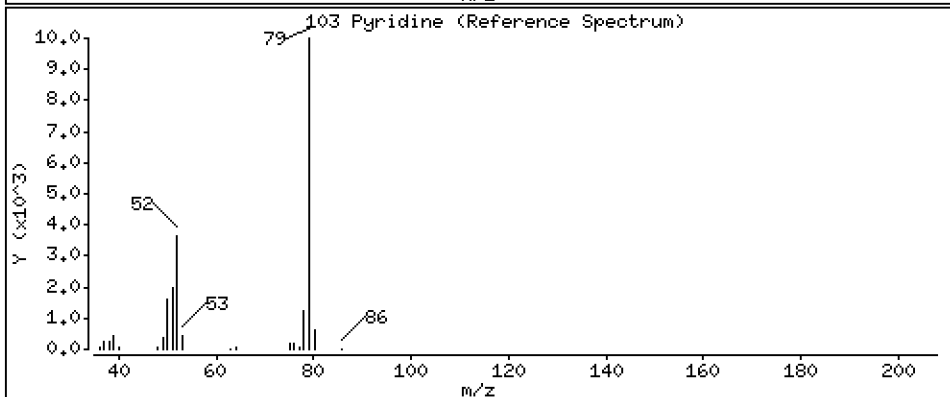
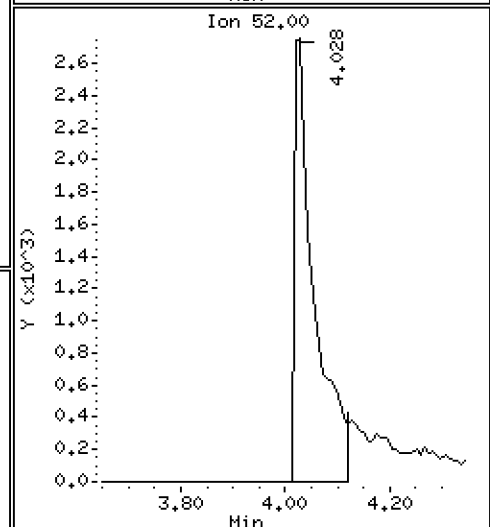
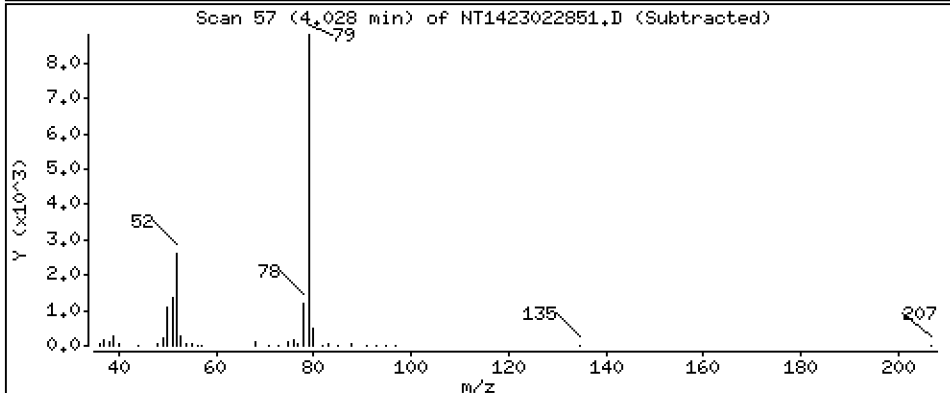
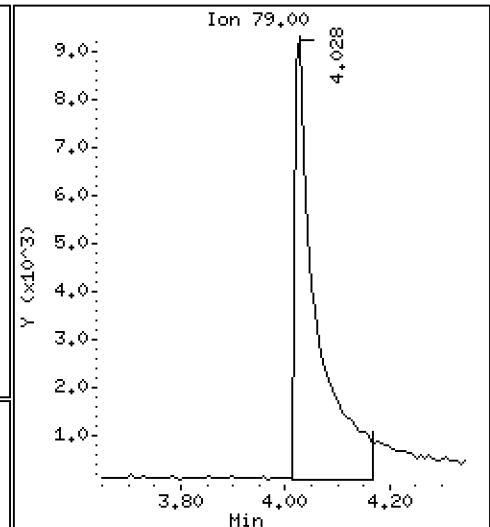
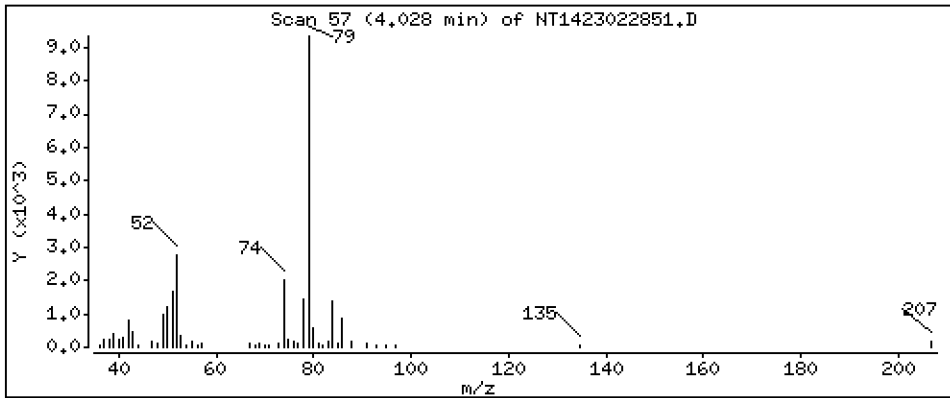
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

103 Pyridine

Concentration: 0,3993 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

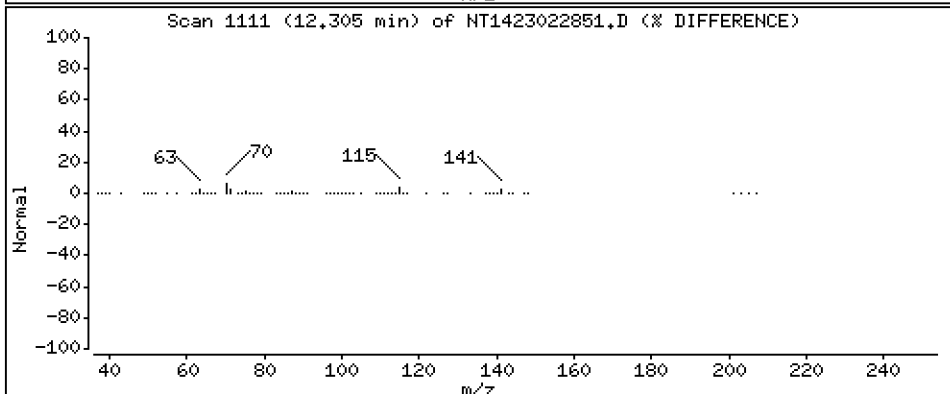
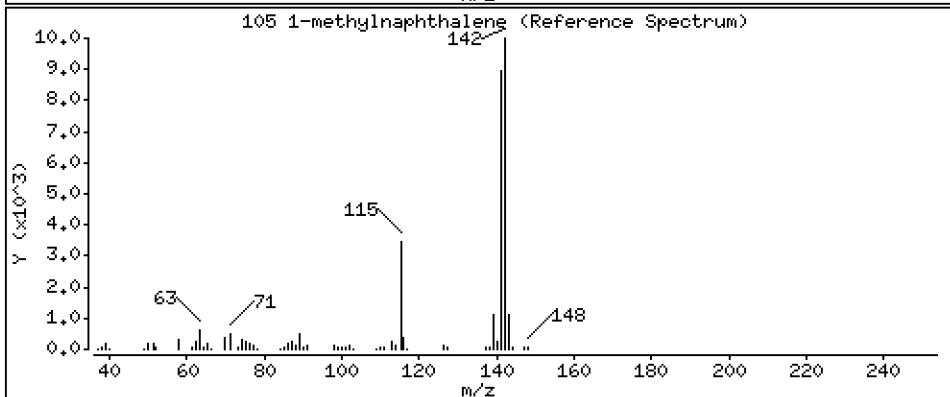
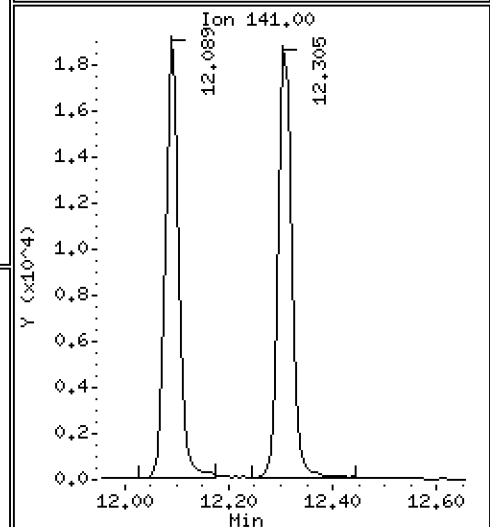
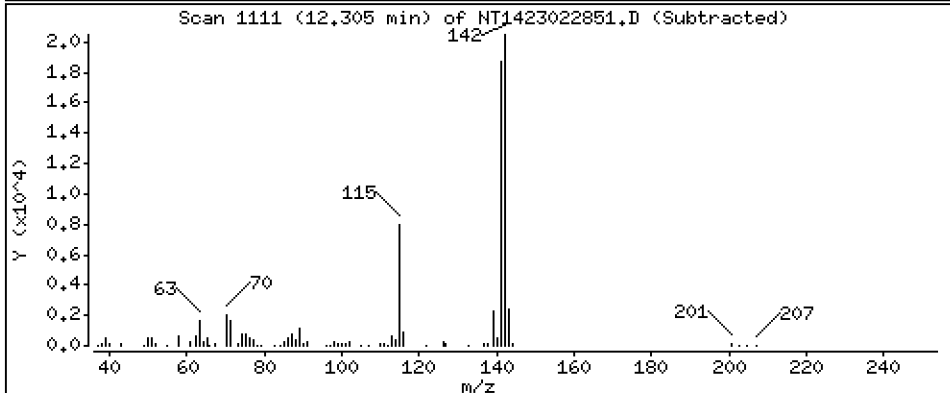
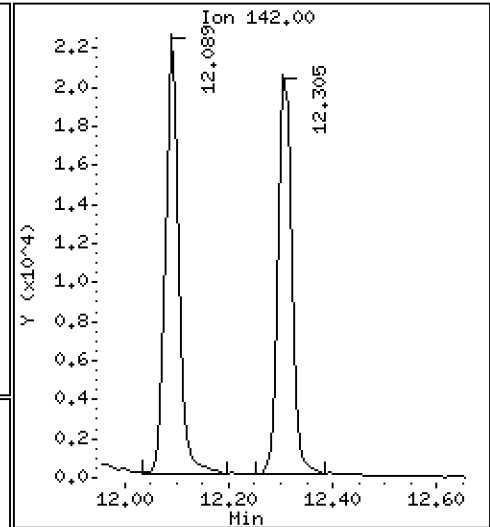
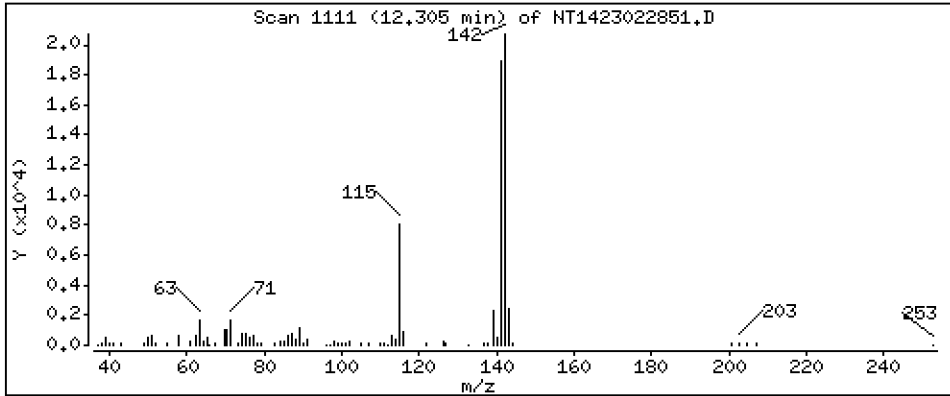
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 0,4888 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

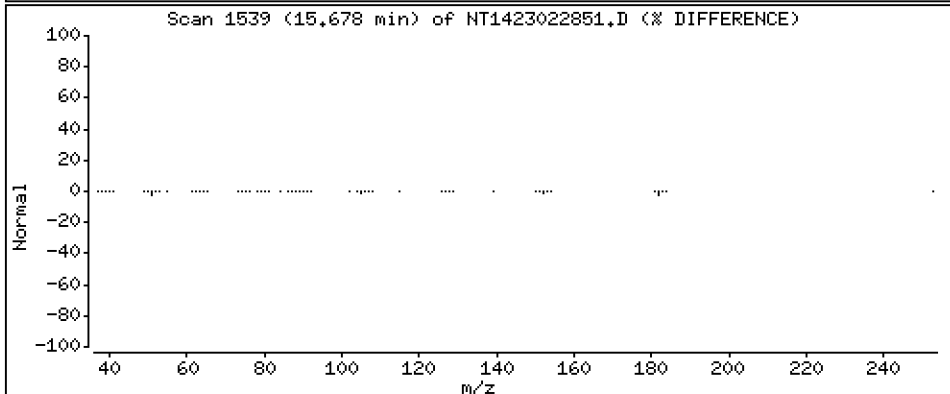
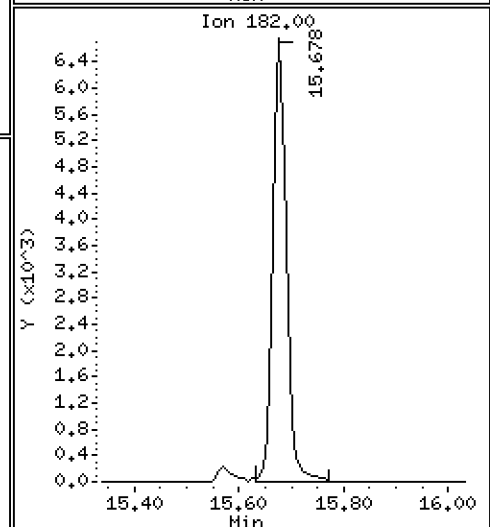
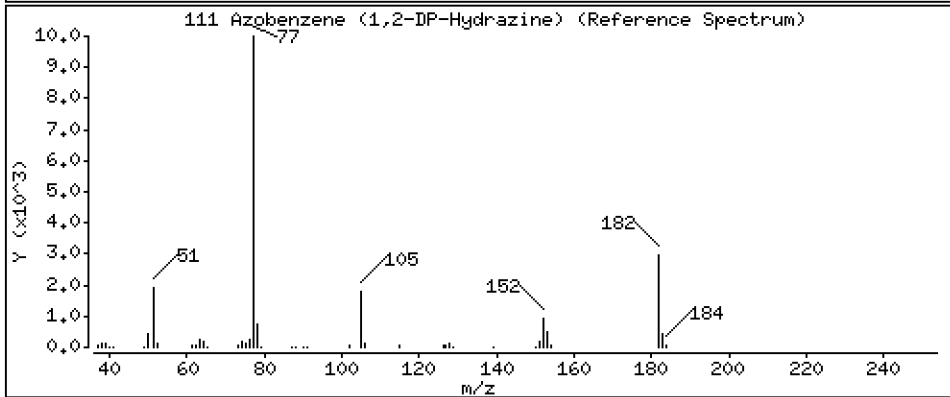
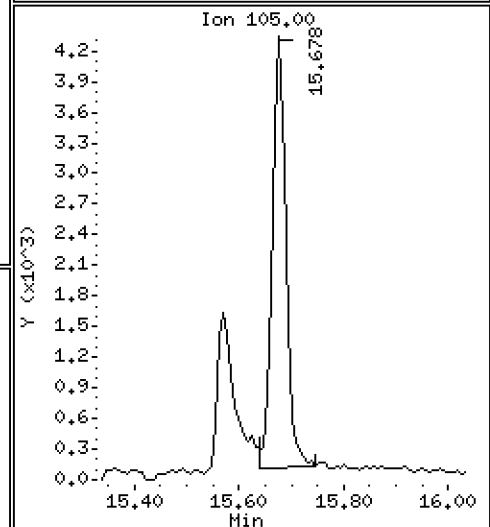
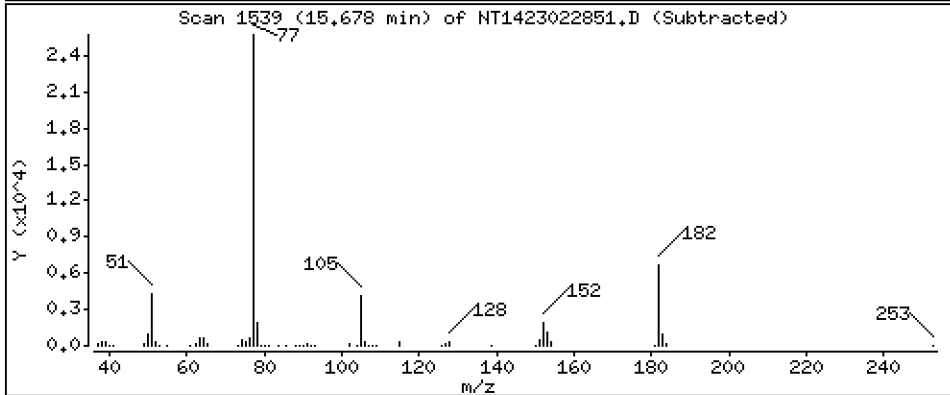
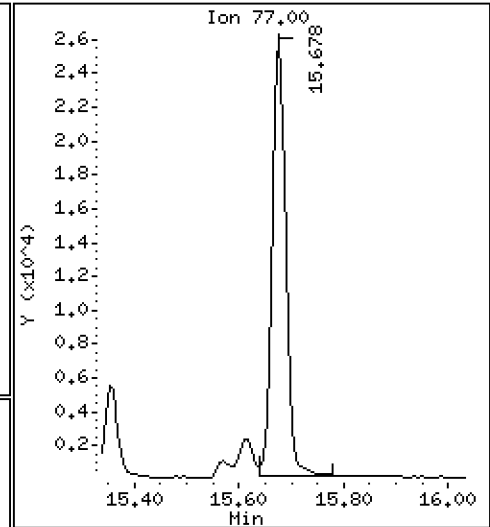
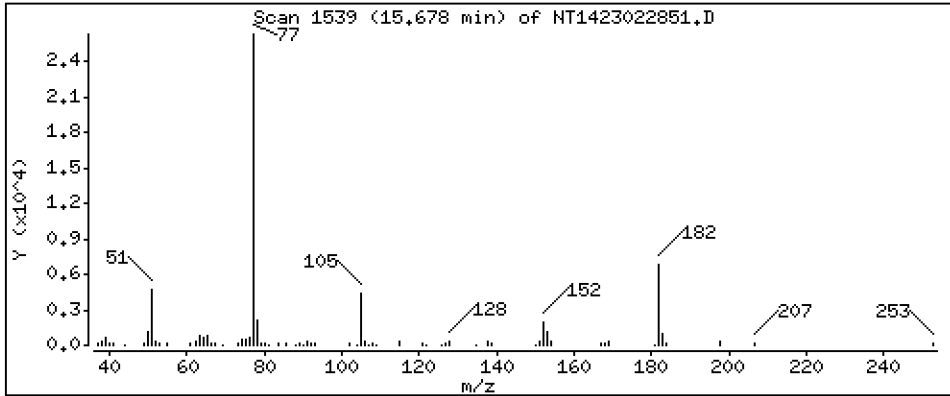
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 0,5802 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

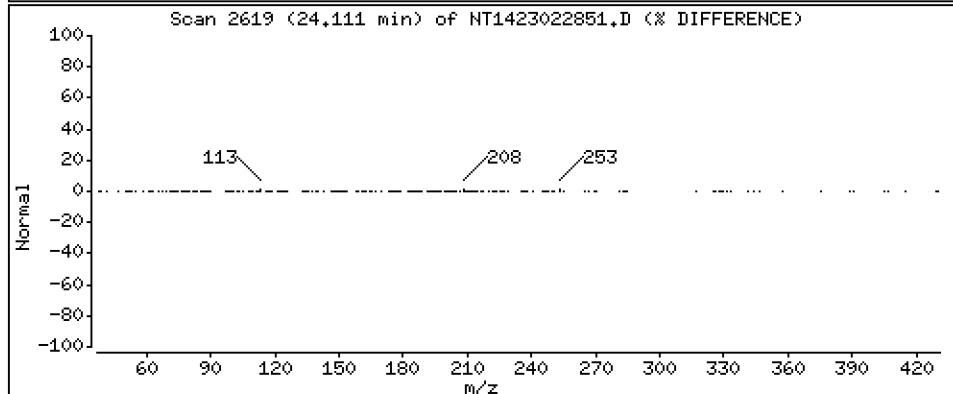
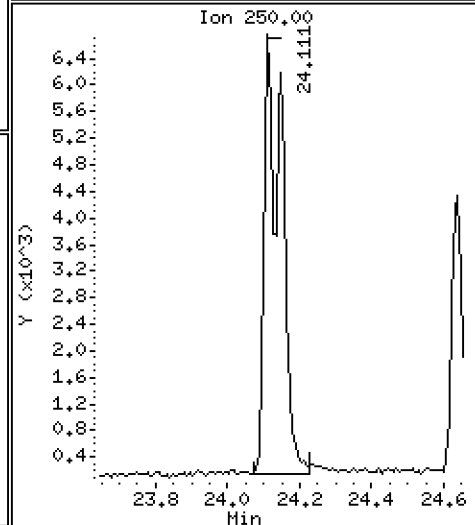
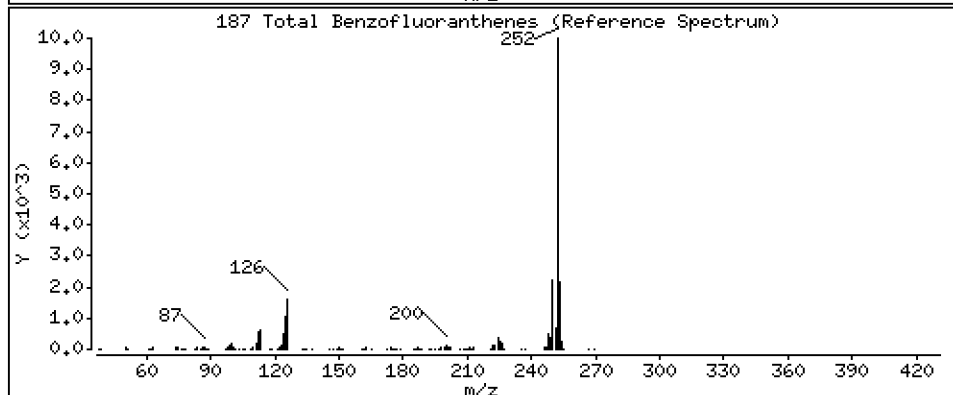
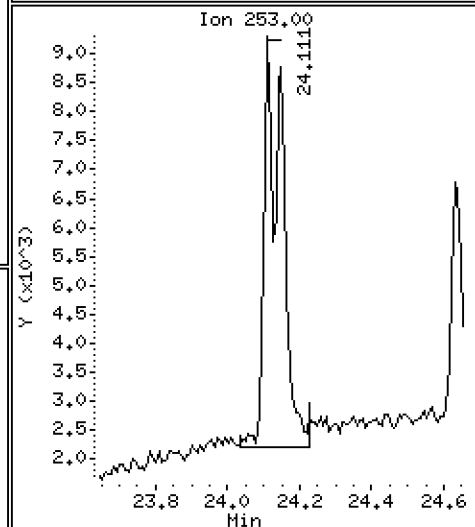
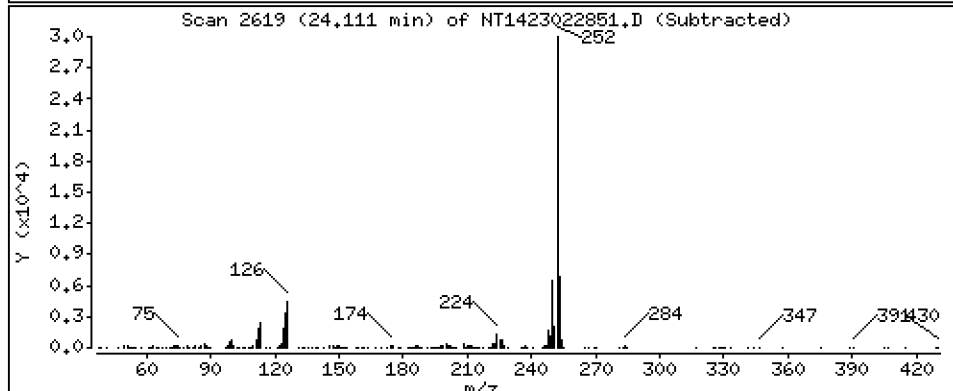
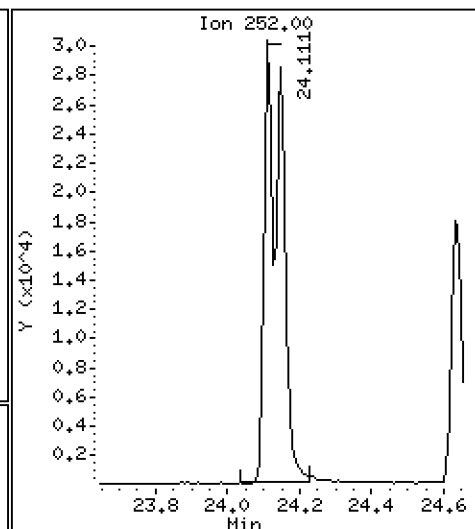
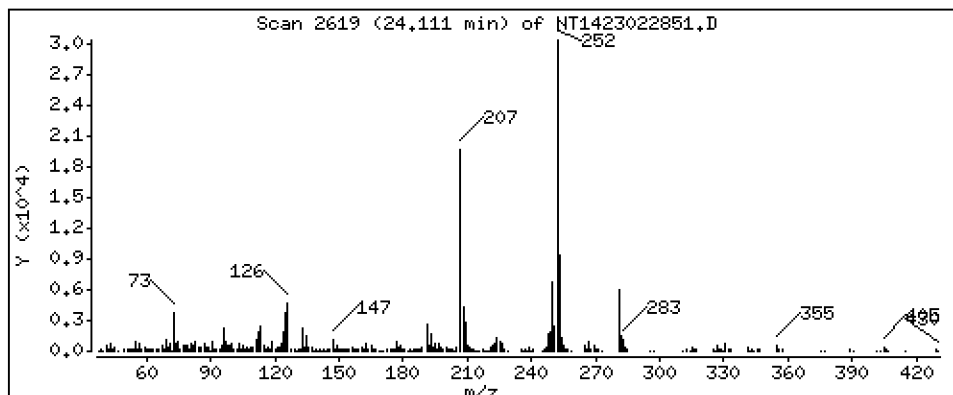
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 1,266 ug/mL



Date : 02-MAR-2023 07:40

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-LCV6

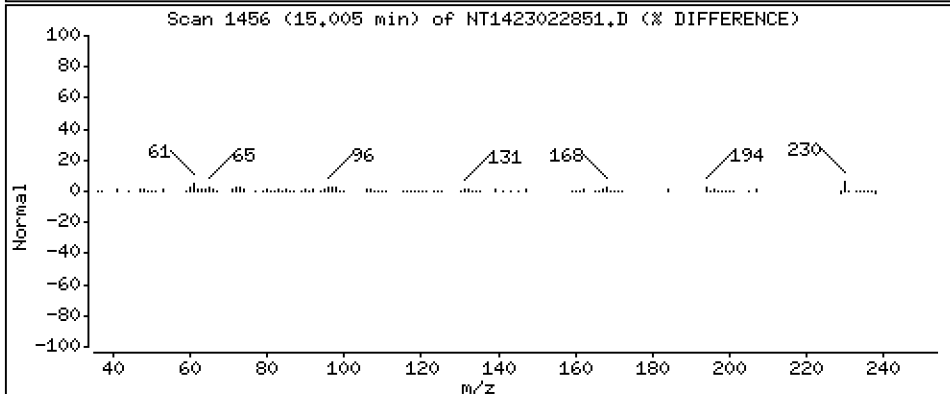
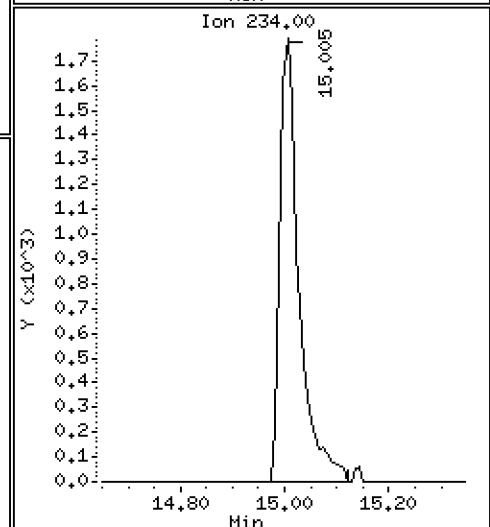
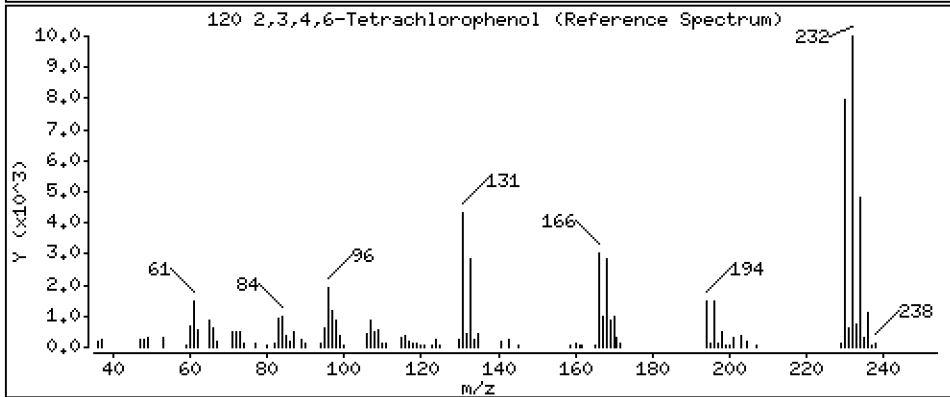
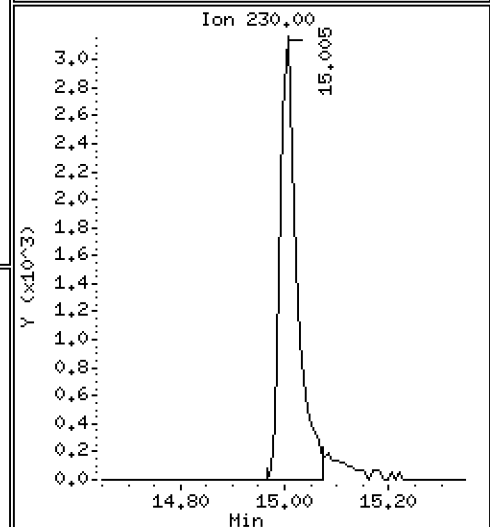
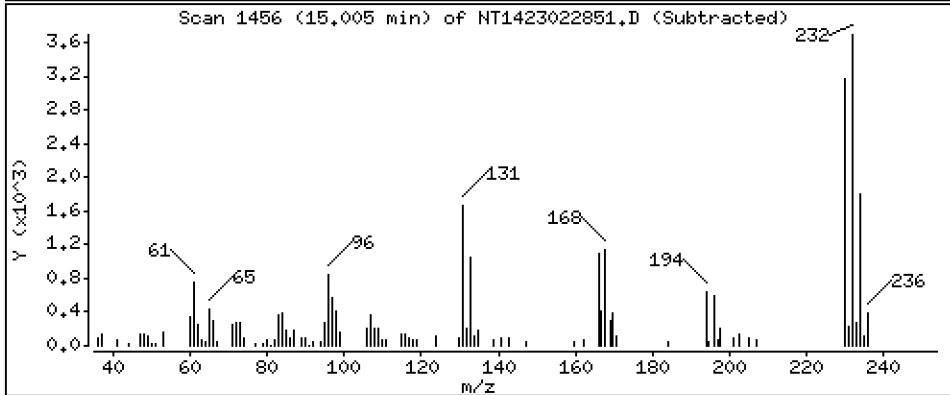
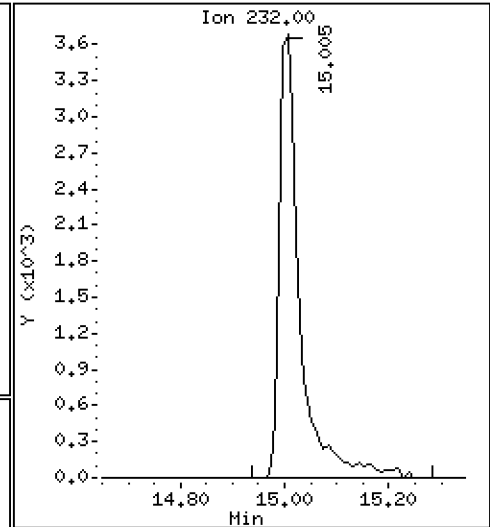
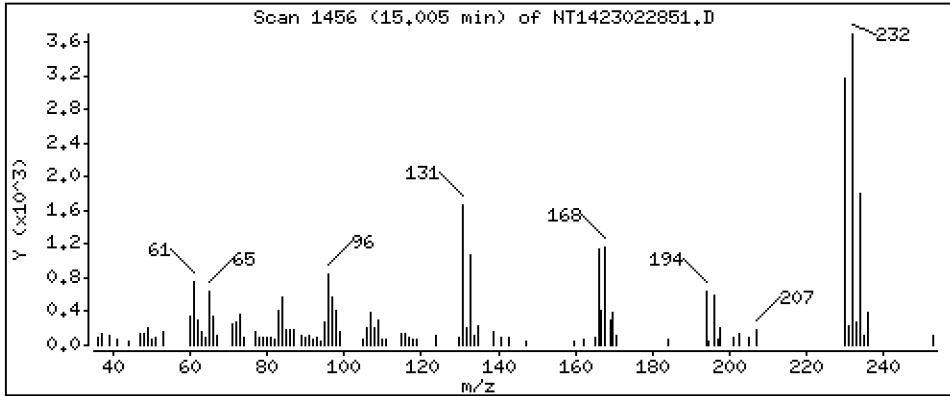
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

120 2,3,4,6-Tetrachlorophenol

Concentration: 0,3973 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230228.b\NT1423022851.D
 Lab Smp Id: SLB0374-LCV6
 Inj Date : 02-MAR-2023 07:40 MS Autotune Date: 17-MAY-2011 01:22
 Operator : JGR Inst ID: nt14.i
 Smp Info : SLB0374-LCV6
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt14.i\20230228.b\ABN.m
 Meth Date : 11-Mar-2023 13:20 van Quant Type: ISTD
 Cal Date : 28-FEB-2023 15:16 Cal File: NT1423022808.D
 Als bottle: 7
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: ICAL.sub
 Target Version: 4.14
 Processing Host: VANS-201906

| Compounds | QUANT | SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|---------------------------------|-------|-----|--------|--------|---------|----------|----------------|--------------|
| | | | | | | | ON-COLUMN | FINAL |
| | MASS | | | | | | (ug/mL) | (ug/mL) |
| \$ 1 2-Fluorophenol | 112 | | 6.074 | 6.066 | (0.740) | 20984 | 0.69459 | 0.6946 |
| \$ 2 Phenol-d5 | 99 | | 7.658 | 7.650 | (0.933) | 34390 | 0.80177 | 0.8018 |
| 3 Phenol | 94 | | 7.681 | 7.673 | (0.936) | 25539 | 0.49903 | 0.4990 |
| \$ 5 2-Chlorophenol-d4 | 132 | | 7.866 | 7.858 | (0.958) | 31022 | 0.85058 | 0.8506 |
| 4 Bis(2-Chloroethyl)ether | 93 | | 7.789 | 7.789 | (0.949) | 19564 | 0.54272 | 0.5427 |
| 6 2-Chlorophenol | 128 | | 7.889 | 7.889 | (0.961) | 20782 | 0.55129 | 0.5513 |
| 7 1,3-Dichlorobenzene | 146 | | 8.137 | 8.137 | (0.991) | 22253 | 0.53566 | 0.5357 |
| * 8 1,4-Dichlorobenzene-d4 | 152 | | 8.207 | 8.207 | (1.000) | 111416 | 4.00000 | |
| 9 1,4-Dichlorobenzene | 146 | | 8.238 | 8.238 | (1.004) | 21862 | 0.53246 | 0.5325 |
| \$ 10 1,2-Dichlorobenzene-d4 | 152 | | 8.556 | 8.556 | (1.043) | 13982 | 0.50923 | 0.5092 |
| 12 1,2-Dichlorobenzene | 146 | | 8.587 | 8.579 | (1.046) | 20682 | 0.52532 | 0.5253 |
| 11 Benzyl alcohol | 108 | | 8.626 | 8.517 | (1.051) | 6195 | 0.27759 | 0.2776 (M) |
| 14 2,2'-oxybis(1-Chloropropane) | 121 | | 8.797 | 8.797 | (1.072) | 5705 | 0.53732 | 0.5373 (M) |
| 13 2-Methylphenol | 108 | | 8.766 | 8.758 | (1.068) | 16531 | 0.51131 | 0.5113 |
| 17 Hexachloroethane | 117 | | 9.162 | 9.162 | (1.116) | 6013 | 0.38997 | 0.3900 |
| 16 N-Nitroso-di-n-propylamine | 70 | | 9.053 | 9.061 | (1.103) | 15082 | 0.61267 | 0.6127 |
| 15 4-Methylphenol | 108 | | 9.045 | 9.037 | (1.102) | 15475 | 0.41121 | 0.4112 |
| \$ 18 Nitrobenzene-d5 | 82 | | 9.301 | 9.293 | (0.873) | 21791 | 0.55223 | 0.5522 |
| 19 Nitrobenzene | 77 | | 9.332 | 9.332 | (0.876) | 20577 | 0.54266 | 0.5427 |
| 20 Isophorone | 82 | | 9.775 | 9.782 | (0.917) | 29540 | 0.49896 | 0.4990 |
| 21 2-Nitrophenol | 139 | | 9.961 | 9.953 | (0.935) | 9198 | 0.46853 | 0.4685 (M) |
| 22 2,4-Dimethylphenol | 107 | | 10.062 | 10.054 | (0.944) | 35702 | 1.03278 | 1.033 |
| 23 Bis(2-Chloroethoxy)methane | 93 | | 10.232 | 10.232 | (0.960) | 19117 | 0.50146 | 0.5015 |
| 24 Benzoic acid | 105 | | 10.657 | 10.372 | (1.000) | 14897 | 1.08744 | 1.087 (M) |
| 25 2,4-Dichlorophenol | 162 | | 10.434 | 10.418 | (0.979) | 27138 | 0.77567 | 0.7757 |
| 26 1,2,4-Trichlorobenzene | 180 | | 10.580 | 10.580 | (0.993) | 19105 | 0.48902 | 0.4890 |
| * 27 Naphthalene-d8 | 136 | | 10.657 | 10.665 | (1.000) | 403388 | 4.00000 | |
| 28 Naphthalene | 128 | | 10.696 | 10.704 | (1.004) | 56987 | 0.52962 | 0.5296 |
| 29 4-Chloroaniline | 127 | | 10.874 | 10.866 | (1.020) | 39723 | 0.86313 | 0.8631 |
| 30 Hexachlorobutadiene | 225 | | 11.074 | 11.074 | (1.039) | 10467 | 0.43906 | 0.4391 |
| 31 4-Chloro-3-methylphenol | 107 | | 11.872 | 11.856 | (1.114) | 30814 | 0.99029 | 0.9903 |
| 32 2-Methylnaphthalene | 142 | | 12.088 | 12.088 | (1.134) | 39522 | 0.49600 | 0.4960 |
| 33 Hexachlorocyclopentadiene | 237 | | 12.553 | 12.553 | (0.881) | 145 | 0.00611 | 0.006113 (M) |

| Compounds | QUANT | SIG | | | | | | CONCENTRATIONS | |
|-----------------------------------|-------|-----|--------|--------|---------|--------|----------|----------------------|------------------|
| | | | MASS | RT | EXP RT | REL RT | RESPONSE | ON-COLUMN (ug/mL) | FINAL (ug/mL) |
| 34 2,4,6-Trichlorophenol | 196 | | 12.731 | 12.731 | (0.894) | 20334 | 0.92054 | 0.9205 | |
| 35 2,4,5-Trichlorophenol | 196 | | 12.823 | 12.808 | (0.900) | 22272 | 0.93253 | 0.9325 | |
| § 36 2-Fluorobiphenyl | 172 | | 12.885 | 12.885 | (0.904) | 46152 | 0.52438 | 0.5244 | |
| 37 2-Chloronaphthalene | 162 | | 13.071 | 13.071 | (0.917) | 36743 | 0.52078 | 0.5208 | |
| 38 2-Nitroaniline | 65 | | 13.365 | 13.365 | (0.938) | 20152 | 1.09516 | 1.095 | |
| 39 Dimethylphthalate | 163 | | 13.806 | 13.806 | (0.969) | 39572 | 0.55636 | 0.5564 | |
| 40 Acenaphthylene | 152 | | 13.930 | 13.930 | (0.978) | 58606 | 0.56609 | 0.5661 | |
| 41 2,6-Dinitrotoluene | 165 | | 13.930 | 13.938 | (0.978) | 17231 | 1.03380 | 1.034 | |
| * 42 Acenaphthene-d10 | 164 | | 14.247 | 14.247 | (1.000) | 226130 | 4.00000 | | |
| 43 3-Nitroaniline | 138 | | 14.224 | 14.216 | (0.998) | 13276 | 0.77714 | 0.7771 | |
| 44 Acenaphthene | 153 | | 14.309 | 14.309 | (1.004) | 35129 | 0.52998 | 0.5300 | |
| 45 2,4-Dinitrophenol | 184 | | 14.503 | 14.425 | (1.018) | 3828 | 0.36319 | 0.3632 (M) | |
| 46 Dibenzofuran | 168 | | 14.634 | 14.642 | (1.027) | 53071 | 0.50319 | 0.5032 | |
| 47 4-Nitrophenol | 109 | | 14.711 | 14.595 | (1.033) | 7005 | 0.82883 | 0.8288 (M) | |
| 48 2,4-Dinitrotoluene | 165 | | 14.734 | 14.734 | (1.034) | 21675 | 0.90332 | 0.9033 | |
| 50 Diethylphthalate | 149 | | 15.253 | 15.260 | (1.071) | 37412 | 0.56248 | 0.5625 | |
| 49 Fluorene | 166 | | 15.345 | 15.345 | (1.077) | 48211 | 0.54253 | 0.5425 | |
| 51 4-Chlorophenyl-phenylether | 204 | | 15.361 | 15.361 | (1.078) | 23681 | 0.50085 | 0.5008 | |
| 52 4-Nitroaniline | 138 | | 15.500 | 15.484 | (1.088) | 12486 | 0.73733 | 0.7373 | |
| 53 4,6-Dinitro-2-methylphenol | 198 | | 15.569 | 15.569 | (0.902) | 9300 | 0.68046 | 0.6805 | |
| 54 N-Nitrosodiphenylamine | 169 | | 15.615 | 15.615 | (0.905) | 29279 | 0.56672 | 0.5667 | |
| § 55 2,4,6-Tribromophenol | 330 | | 15.885 | 15.885 | (1.115) | 7056 | 0.58013 | 0.5801 | |
| 56 4-Bromophenyl-phenylether | 248 | | 16.348 | 16.348 | (0.948) | 11488 | 0.50578 | 0.5058 | |
| 57 Hexachlorobenzene | 284 | | 16.642 | 16.642 | (0.965) | 12906 | 0.51681 | 0.5168 | |
| 58 Pentachlorophenol | 266 | | 17.036 | 17.013 | (0.987) | 6504 | 0.55274 | 0.5527 (M) | |
| * 59 Phenanthrene-d10 | 188 | | 17.253 | 17.253 | (1.000) | 411120 | 4.00000 | | |
| 60 Phenanthrene | 178 | | 17.300 | 17.299 | (1.003) | 56582 | 0.51736 | 0.5174 | |
| 61 Anthracene | 178 | | 17.392 | 17.392 | (1.008) | 54458 | 0.52671 | 0.5267 | |
| 62 Carbazole | 167 | | 17.756 | 17.748 | (1.029) | 45380 | 0.50079 | 0.5008 | |
| 63 Di-n-butylphthalate | 149 | | 18.599 | 18.599 | (1.078) | 60175 | 0.51476 | 0.5148 | |
| 64 Fluoranthene | 202 | | 19.721 | 19.729 | (0.882) | 60173 | 0.46602 | 0.4660 | |
| 65 Pyrene | 202 | | 20.154 | 20.154 | (0.901) | 63458 | 0.46614 | 0.4661 | |
| § 66 Terphenyl-d14 | 244 | | 20.479 | 20.479 | (0.916) | 48418 | 0.46193 | 0.4619 | |
| 67 Butylbenzylphthalate | 149 | | 21.447 | 21.447 | (0.959) | 24820 | 0.51573 | 0.5157 | |
| 68 Benzo(a)anthracene | 228 | | 22.346 | 22.353 | (0.999) | 62629 | 0.54936 | 0.5494 | |
| * 69 Chrysene-d12 | 240 | | 22.369 | 22.376 | (1.000) | 340331 | 4.00000 | | |
| 70 3,3'-Dichlorobenzidine | 252 | | 22.330 | 22.338 | (0.998) | 59762 | 1.83563 | 1.836 | |
| 71 Chrysene | 228 | | 22.415 | 22.423 | (1.002) | 58976 | 0.53821 | 0.5382 | |
| 72 bis(2-Ethylhexyl)phthalate | 149 | | 22.500 | 22.500 | (0.958) | 33247 | 0.45398 | 0.4540 | |
| * 134 Di-n-octylphthalate-d4 | 153 | | 23.476 | 23.483 | (1.000) | 479730 | 4.00000 | | |
| 73 Di-n-octylphthalate | 149 | | 23.484 | 23.491 | (1.000) | 63248 | 0.50073 | 0.5007 | |
| 74 Benzo(b)fluoranthene | 252 | | 24.111 | 24.118 | (0.975) | 45890 | 0.57643 | 0.5764 | |
| 75 Benzo(k)fluoranthene | 252 | | 24.149 | 24.149 | (0.977) | 57910 | 0.67426 | 0.6743 | |
| 76 Benzo(a)pyrene | 252 | | 24.629 | 24.637 | (0.996) | 36970 | 0.54128 | 0.5413 | |
| * 77 Perylene-d12 | 264 | | 24.722 | 24.730 | (1.000) | 240961 | 4.00000 | | |
| 78 Indeno(1,2,3-cd)pyrene | 276 | | 26.824 | 26.808 | (1.085) | 19630 | 0.22832 | 0.2283 | |
| 79 Dibenzo(a,h)anthracene | 278 | | 26.839 | 26.824 | (1.086) | 18262 | 0.25008 | 0.2501 | |
| 80 Benzo(g,h,i)perylene | 276 | | 27.422 | 27.414 | (1.109) | 13685 | 0.18250 | 0.1825 | |
| 90 N-Nitrosodimethylamine | 74 | | 3.996 | 3.996 | (0.487) | 17862 | 0.78275 | 0.7828 | |
| 91 Aniline | 93 | | 7.689 | 7.689 | (0.937) | 50583 | 0.96024 | 0.9602 | |
| 93 Benzidine | 184 | | 20.023 | 20.007 | (0.895) | 31561 | 0.57203 | 0.5720 | |
| 103 Pyridine | 79 | | 4.027 | 3.996 | (0.491) | 26951 | 0.39928 | 0.3993 | |
| 105 1-methylnaphthalene | 142 | | 12.305 | 12.305 | (1.155) | 35860 | 0.48884 | 0.4888 | |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77 | | 15.677 | 15.685 | (1.100) | 44301 | 0.58017 | 0.5802 | |

| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|-------------------------------|-----------|--------|--------|---------|----------|----------------------|------------------|
| | | | | | | ON-COLUMN (ug/mL) | FINAL (ug/mL) |
| 187 Total Benzofluoranthenes | 252 | 24.111 | 24.149 | (0.975) | 98590 | 1.26597 | 1.266 |
| 120 2,3,4,6-Tetrachlorophenol | 232 | 15.005 | 14.997 | (1.053) | 10119 | 0.39729 | 0.3973 (M) |

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 02-MAR-2023
 Lab File ID: NT1423022851.D Calibration Time: 05:52
 Lab Smp Id: SLB0374-LCV6
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: JGR
 Method File: \\target\share\chem3\nt14.i\20230228.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|--------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 116519 | 58260 | 233038 | 111416 | -4.38 |
| 27 Naphthalene-d8 | 429090 | 214545 | 858180 | 403388 | -5.99 |
| 42 Acenaphthene-d10 | 250637 | 125319 | 501274 | 226130 | -9.78 |
| 59 Phenanthrene-d10 | 458117 | 229059 | 916234 | 411120 | -10.26 |
| 69 Chrysene-d12 | 393468 | 196734 | 786936 | 340331 | -13.50 |
| 134 Di-n-octylphthala | 572636 | 286318 | 1145272 | 479730 | -16.22 |
| 77 Perylene-d12 | 283320 | 141660 | 566640 | 240961 | -14.95 |

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

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

REVIEW SUMMARY FOR FILE - NT1423022851.D

Lab ID: SLB0374-LCV6
nt14.i, ABN.m, 02-MAR-2023 07:40

RT CO-ELUTION COMPOUNDS

13.931 Acenaphthylene and 2,6-Dinitrotoluene

Quant Method: ICAL

RRT CHECK

| RRT | CCV RRT | DELTA | COMPOUND |
|-------|---------|--------|-------------------|
| 1.051 | 1.038 | 0.0132 | Benzyl alcohol |
| 1.000 | 0.972 | 0.0275 | Benzoic acid |
| 1.018 | 1.012 | 0.0054 | 2,4-Dinitrophenol |
| 1.033 | 1.024 | 0.0082 | 4-Nitrophenol |

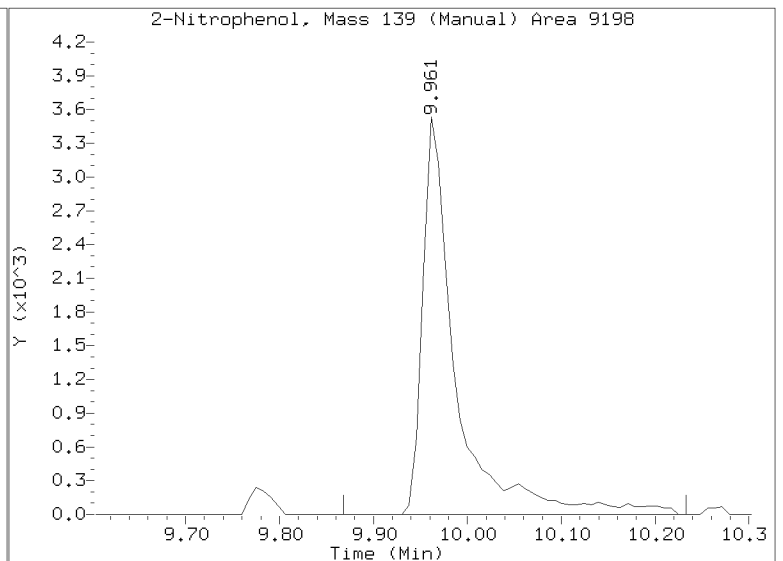
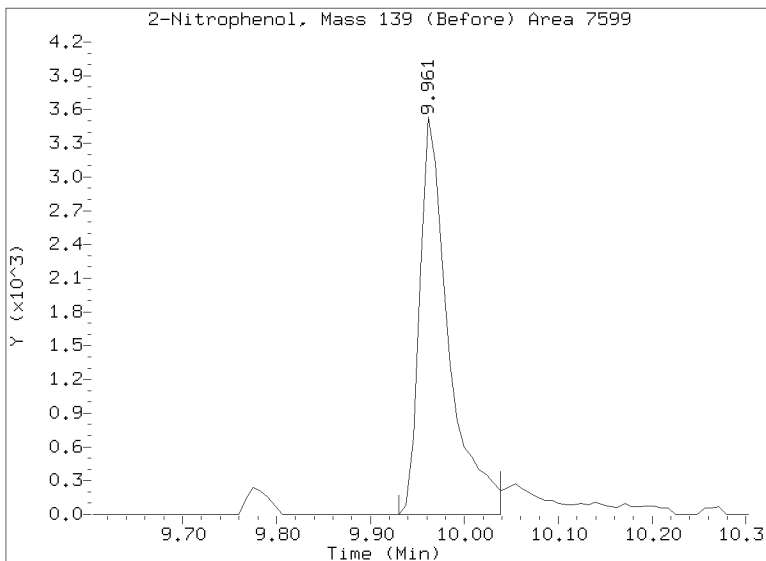
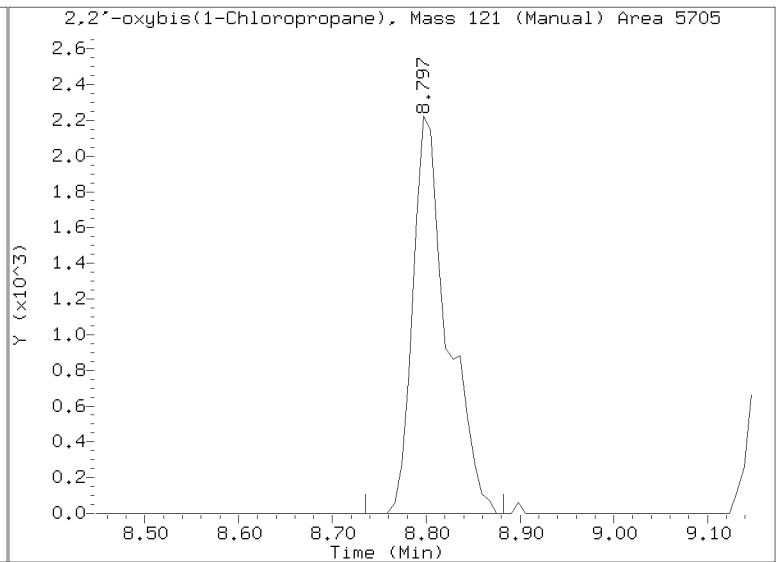
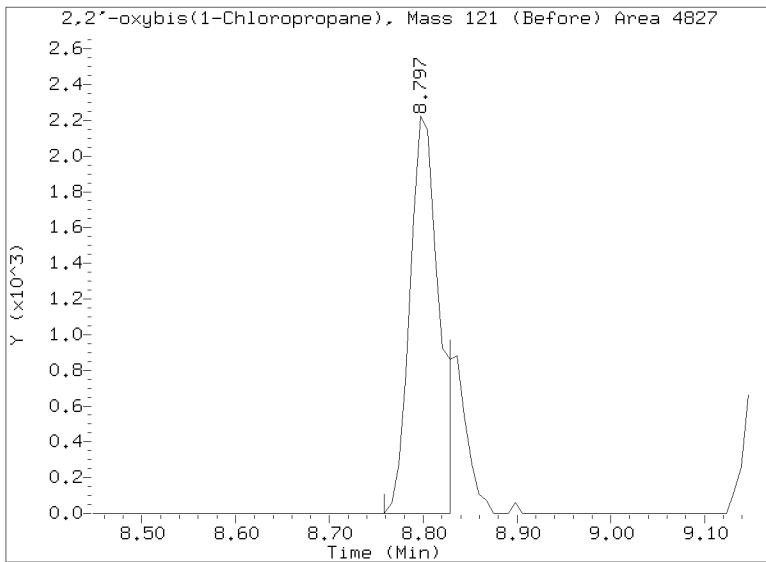
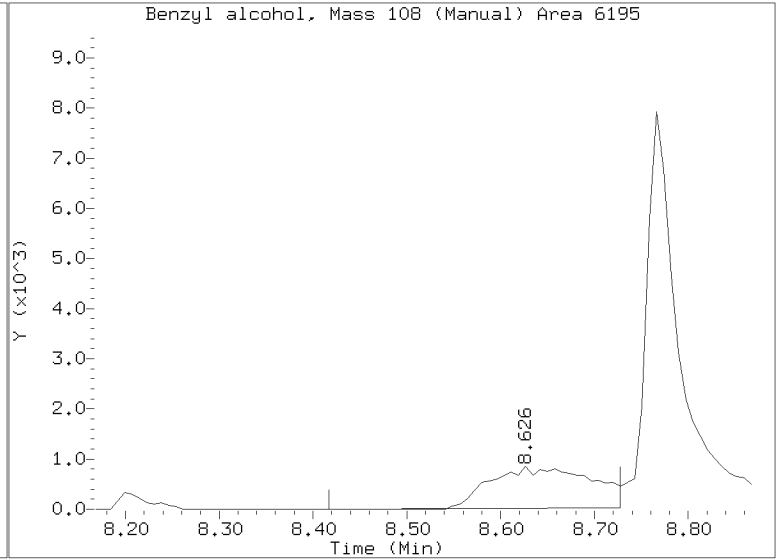
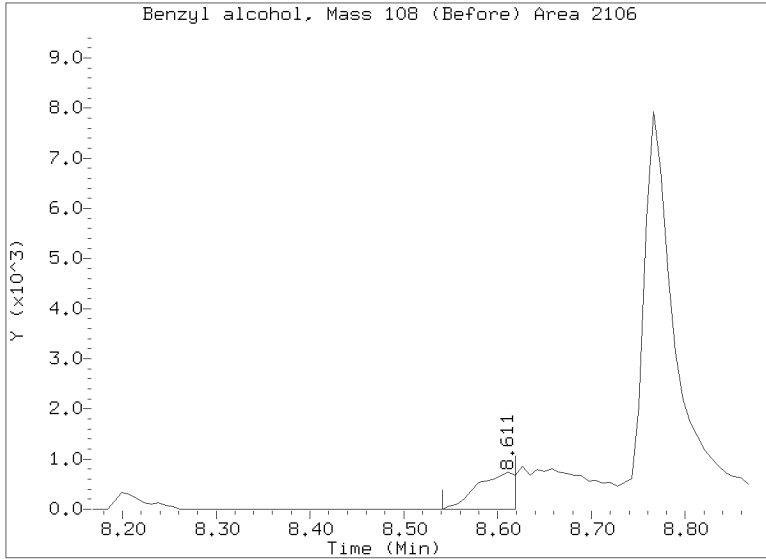
RRT check based on Ccal File: NT1423022848.D

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

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

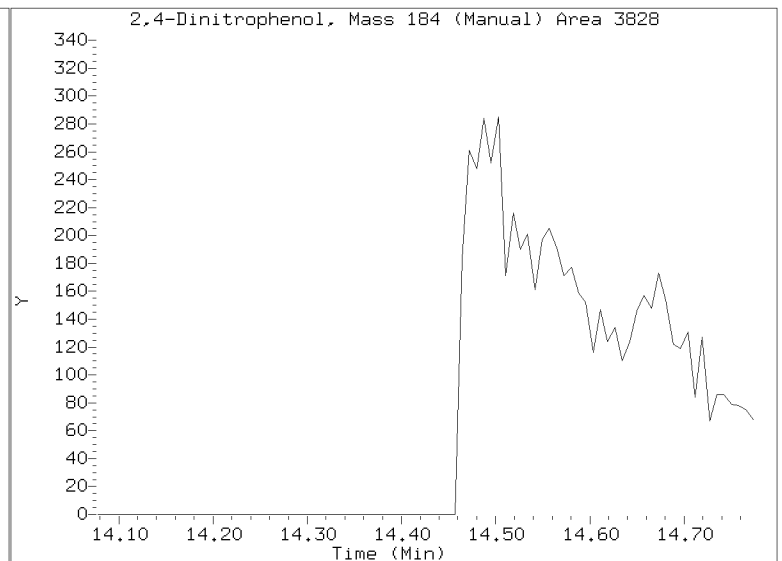
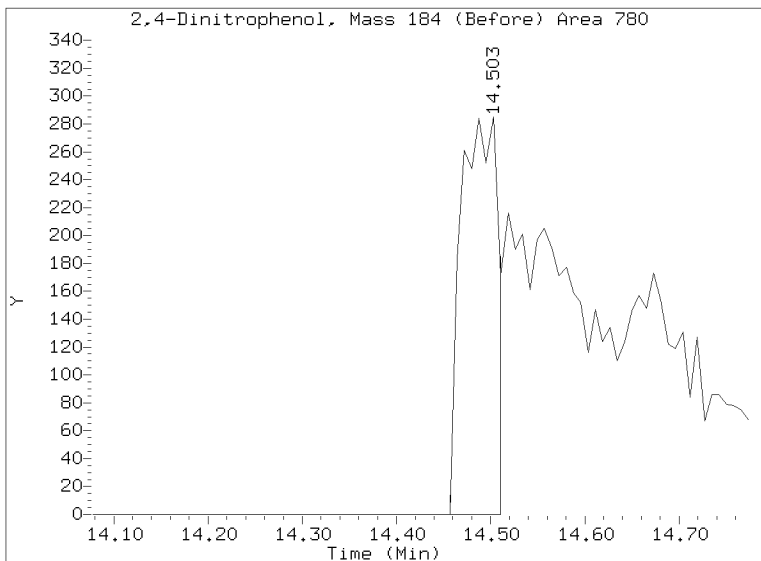
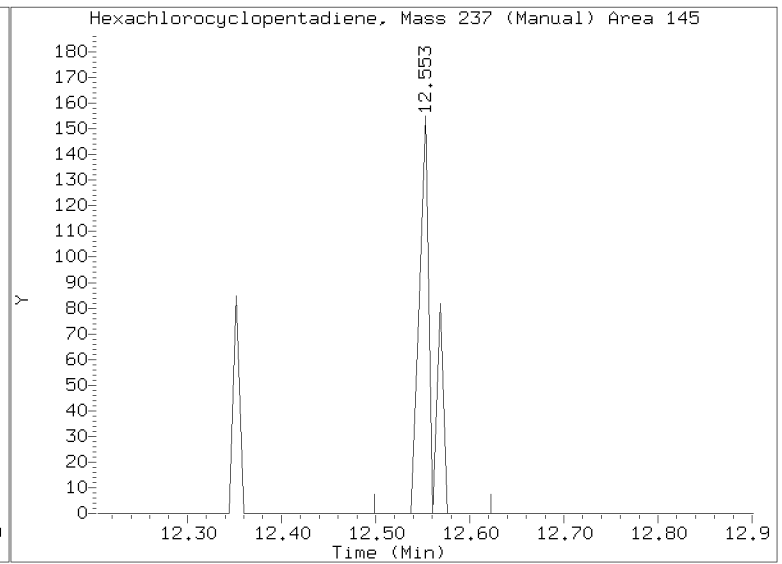
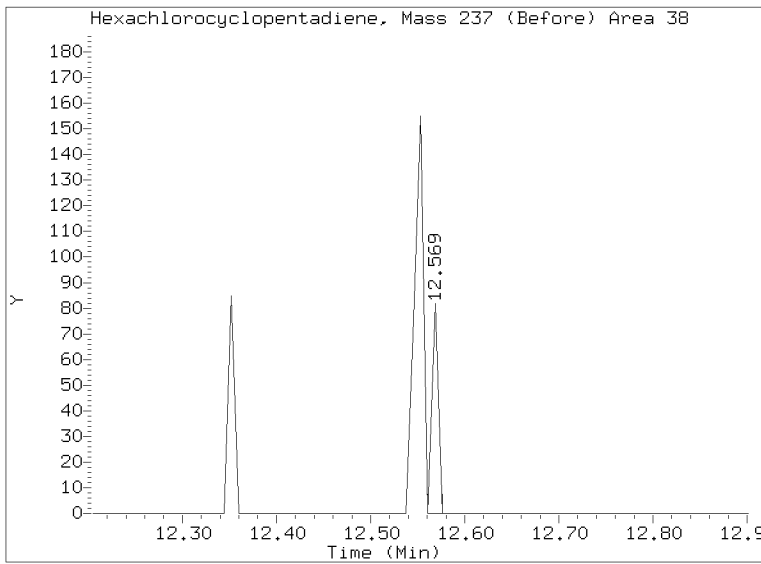
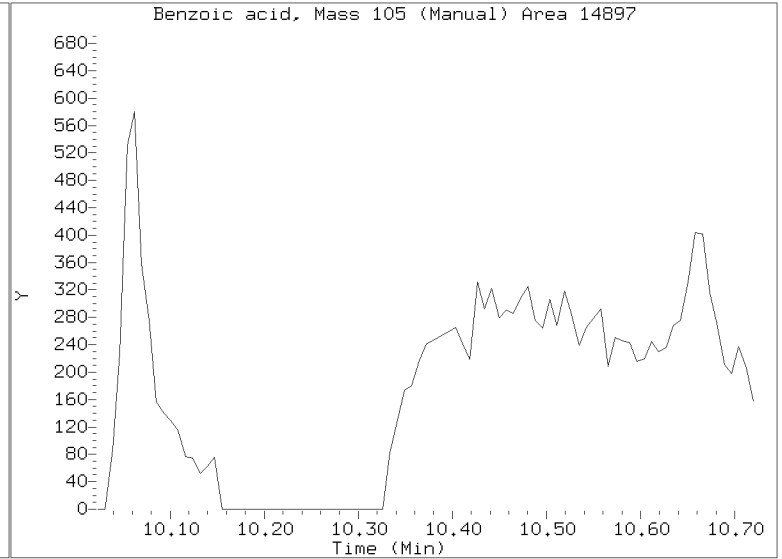
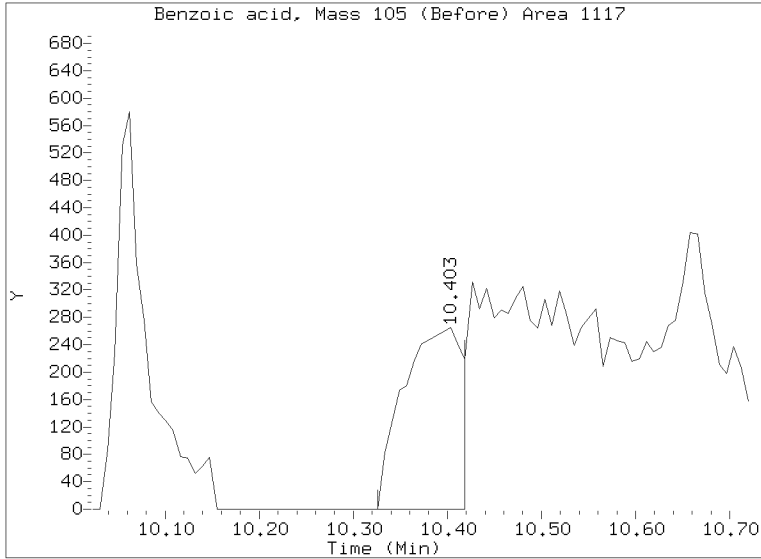
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230228.b/NT1423022851.D
Injection Date: 02-MAR-2023 07:40
Lab ID:SLB0374-LCV6 Client ID:
Report Date: 03/14/2023 08:43



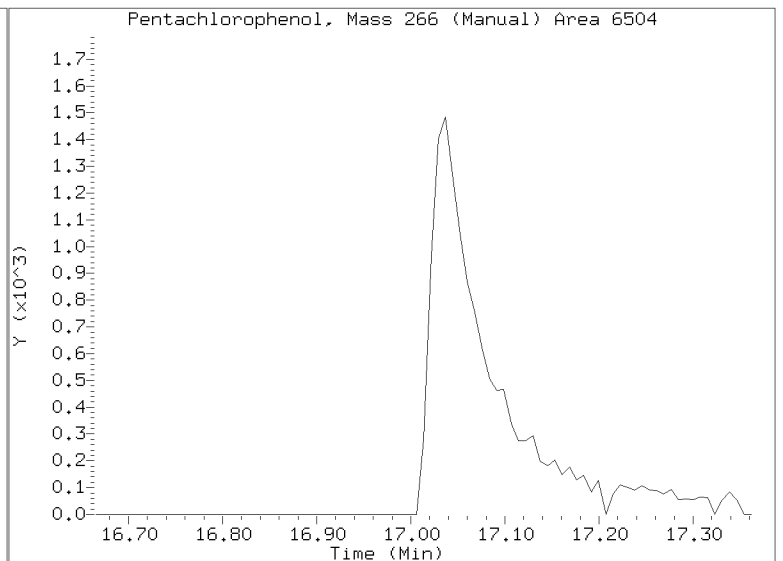
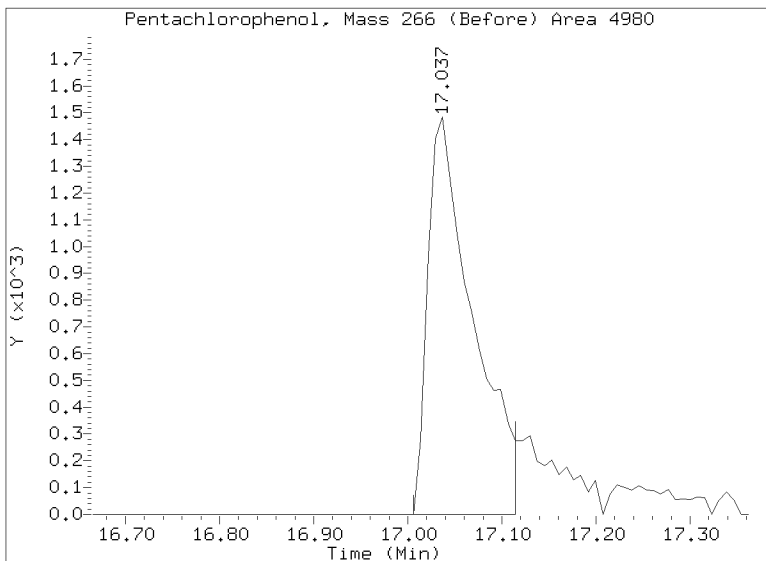
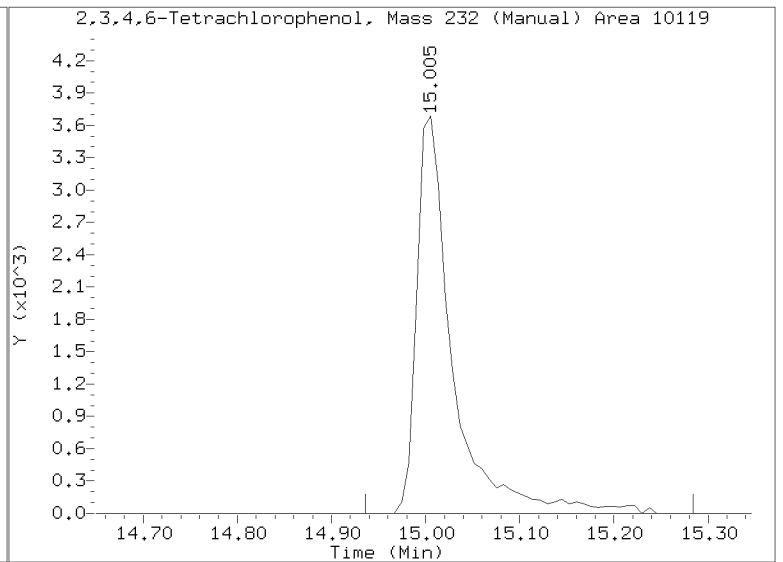
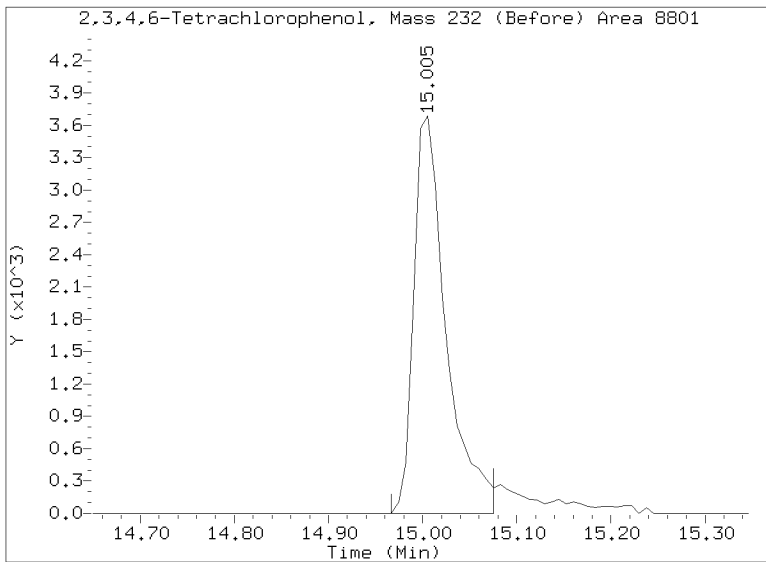
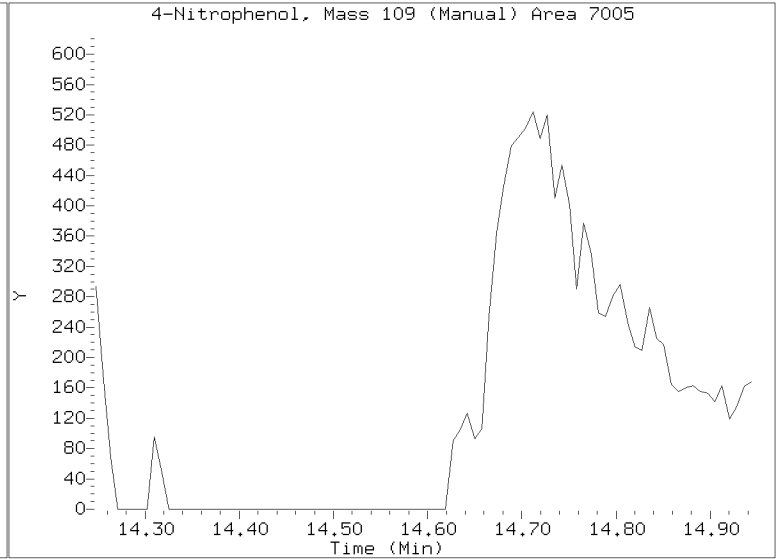
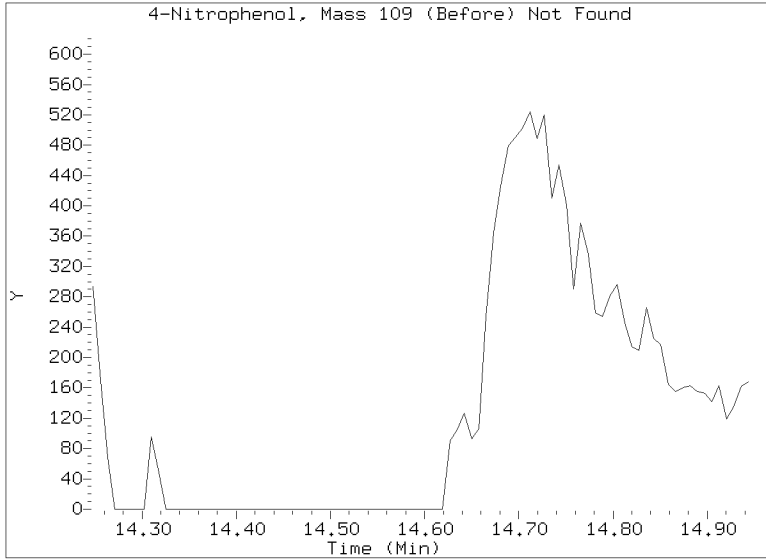
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230228.b/NT1423022851.D
Injection Date: 02-MAR-2023 07:40
Lab ID:SLB0374-LCV6 Client ID:
Report Date: 03/14/2023 08:43



Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230228.b/NT1423022851.D
Injection Date: 02-MAR-2023 07:40
Lab ID: SLB0374-LCV6 Client ID:
Report Date: 03/14/2023 08:43





SECOND-SOURCE
CONTINUING CALIBRATION CHECK
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: NT14

Calibration: GC00033

Lab File ID: NT1423022812.D

Calibration Date: 02/28/2023

Sequence: SLB0374

Injection Date: 02/28/23

Lab Sample ID: SLB0374-SCV1

Injection Time: 17:41

Sequence Name: SCV 5.0

| COMPOUND | TYPE | CONC. (ug/mL) | | RESPONSE FACTOR (RRF) | | | % DRIFT/DIFF | |
|------------------------------|------|---------------|-----|-----------------------|-----------|-----|--------------|---------|
| | | STD | CCV | ICAL | CCV | MIN | CCV | LIMIT |
| Phenol | A | 5.0000 | 3.9 | 1.8373500 | 1.4459250 | | -21.3 | +/-20 * |
| bis(2-chloroethyl) ether | A | 5.0000 | 5.2 | 1.5312550 | 1.3047970 | | 4.7 | +/-20 |
| 2-Chlorophenol | A | 5.0000 | 4.6 | 1.3533690 | 1.2538550 | | -7.4 | +/-20 |
| 1,3-Dichlorobenzene | A | 5.0000 | 4.8 | 1.4914740 | 1.4302950 | | -4.1 | +/-20 |
| 1,4-Dichlorobenzene | A | 5.0000 | 4.8 | 1.4740600 | 1.4151500 | | -4.0 | +/-20 |
| 1,2-Dichlorobenzene | A | 5.0000 | 4.8 | 1.4134490 | 1.3588290 | | -3.9 | +/-20 |
| Benzyl Alcohol | A | 5.0000 | 4.3 | 0.6439892 | 0.6983891 | | -13.9 | +/-20 |
| 2,2'-Oxybis(1-chloropropane) | A | 5.0000 | 5.5 | 0.3811859 | 0.4200502 | | 10.2 | +/-20 |
| 2-Methylphenol | A | 5.0000 | 4.4 | 1.1607310 | 1.0230260 | | -11.9 | +/-20 |
| Hexachloroethane | A | 5.0000 | 5.1 | 0.5535732 | 0.5634585 | | 1.8 | +/-20 |
| N-Nitroso-di-n-Propylamine | A | 5.0000 | 5.1 | 0.8837751 | 0.9082400 | | 2.8 | +/-20 |
| 4-Methylphenol | A | 5.0000 | 4.2 | 1.1353050 | 1.1211440 | | -15.6 | +/-20 |
| Nitrobenzene | A | 5.0000 | 5.1 | 0.3760061 | 0.3804653 | | 1.2 | +/-20 |
| Isophorone | A | 5.0000 | 6.4 | 0.4996273 | 0.7373638 | | 28.2 | +/-20 * |
| 2-Nitrophenol | A | 5.0000 | 4.1 | 0.1467597 | 0.1614526 | | -17.5 | +/-20 |
| 2,4-Dimethylphenol | A | 5.0000 | 3.9 | 0.3427845 | 0.2666948 | | -22.2 | +/-20 * |
| Bis(2-Chloroethoxy)methane | A | 5.0000 | 5.8 | 0.3780235 | 0.4358111 | | 15.3 | +/-20 |
| 2,4-Dichlorophenol | A | 5.0000 | 4.8 | 0.2946235 | 0.3249276 | | -4.3 | +/-20 |
| 1,2,4-Trichlorobenzene | A | 5.0000 | 4.8 | 0.3874001 | 0.3710765 | | -4.2 | +/-20 |
| Naphthalene | A | 5.0000 | 4.8 | 1.0669580 | 1.0170510 | | -4.7 | +/-20 |
| Benzoic acid | A | 10.0000 | 4.1 | 0.1358415 | 0.0553068 | | -59.3 | +/-20 * |
| 4-Chloroaniline | A | 5.0000 | 3.9 | 0.4563565 | 0.3555087 | | -22.1 | +/-20 * |
| Hexachlorobutadiene | A | 5.0000 | 4.8 | 0.2363916 | 0.2270940 | | -3.9 | +/-20 |
| 4-Chloro-3-Methylphenol | A | 5.0000 | 4.9 | 0.3085482 | 0.2999183 | | -2.8 | +/-20 |
| 2-Methylnaphthalene | A | 5.0000 | 4.6 | 0.7901196 | 0.7308895 | | -7.5 | +/-20 |
| Hexachlorocyclopentadiene | A | 5.0000 | 4.5 | 0.3443795 | 0.3818016 | | -9.3 | +/-20 |
| 2,4,6-Trichlorophenol | A | 5.0000 | 4.8 | 0.3907367 | 0.3741828 | | -4.2 | +/-20 |
| 2,4,5-Trichlorophenol | A | 5.0000 | 4.7 | 0.4224702 | 0.3945367 | | -6.6 | +/-20 |
| 2-Chloronaphthalene | A | 5.0000 | 4.9 | 1.2480280 | 1.2257100 | | -1.8 | +/-20 |
| 2-Nitroaniline | A | 5.0000 | 5.0 | 0.3254949 | 0.3241728 | | -0.4 | +/-20 |
| Acenaphthylene | A | 5.0000 | 5.0 | 1.8312950 | 1.8221570 | | -0.5 | +/-20 |
| Dimethylphthalate | A | 5.0000 | 5.2 | 1.2581570 | 1.3099120 | | 4.1 | +/-20 |
| 2,6-Dinitrotoluene | A | 5.0000 | 5.2 | 0.2948315 | 0.3081993 | | 4.5 | +/-20 |
| Acenaphthene | A | 5.0000 | 4.8 | 1.1724930 | 1.1178170 | | -4.7 | +/-20 |

* Values outside of QC limits



**SECOND-SOURCE
CONTINUING CALIBRATION CHECK
EPA 8270E**

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: NT14

Calibration: GC00033

Lab File ID: NT1423022812.D

Calibration Date: 02/28/2023

Sequence: SLB0374

Injection Date: 02/28/23

Lab Sample ID: SLB0374-SCV1

Injection Time: 17:41

Sequence Name: SCV 5.0

| COMPOUND | TYPE | CONC. (ug/mL) | | RESPONSE FACTOR (RRF) | | | % DRIFT/DIFF | |
|-----------------------------|------|---------------|------|-----------------------|-----------|-----|--------------|---------|
| | | STD | CCV | ICAL | CCV | MIN | CCV | LIMIT |
| 3-Nitroaniline | A | 5.0000 | 4.9 | 0.3021810 | 0.2942529 | | -2.6 | +/-20 |
| 2,4-Dinitrophenol | A | 5.0000 | 1.0 | 0.1437811 | 0.0366189 | | -80.4 | +/-20 * |
| Dibenzofuran | A | 5.0000 | 4.7 | 1.8656210 | 1.7603770 | | -5.6 | +/-20 |
| 4-Nitrophenol | A | 5.0000 | 3.9 | 0.1323756 | 0.1187216 | | -21.3 | +/-20 * |
| 2,4-Dinitrotoluene | A | 5.0000 | 4.9 | 0.4244424 | 0.4194757 | | -1.2 | +/-20 |
| Fluorene | A | 5.0000 | 4.8 | 1.5719010 | 1.5068770 | | -4.1 | +/-20 |
| 4-Chlorophenylphenyl ether | A | 5.0000 | 4.9 | 0.8363665 | 0.8170425 | | -2.3 | +/-20 |
| Diethyl phthalate | A | 5.0000 | 5.4 | 1.1765440 | 1.2754070 | | 8.4 | +/-20 |
| 4-Nitroaniline | A | 5.0000 | 4.6 | 0.2995450 | 0.2731840 | | -8.8 | +/-20 |
| 4,6-Dinitro-2-methylphenol | A | 5.0000 | 3.2 | 0.0975169 | 0.0861175 | | -35.3 | +/-20 * |
| N-Nitrosodiphenylamine | A | 5.0000 | 5.0 | 0.5026629 | 0.5006023 | | -0.4 | +/-20 |
| 4-Bromophenyl phenyl ether | A | 5.0000 | 5.2 | 0.2209900 | 0.2276960 | | 3.0 | +/-20 |
| Hexachlorobenzene | A | 5.0000 | 4.8 | 0.2429692 | 0.2327533 | | -4.2 | +/-20 |
| Pentachlorophenol | A | 5.0000 | 3.5 | 0.0938263 | 0.0817779 | | -29.5 | +/-20 * |
| Phenanthrene | A | 5.0000 | 4.6 | 1.0640870 | 0.9821820 | | -7.7 | +/-20 |
| Anthracene | A | 5.0000 | 4.2 | 1.0059580 | 0.8499270 | | -15.5 | +/-20 |
| Carbazole | A | 5.0000 | 4.8 | 0.8816605 | 0.8421437 | | -4.5 | +/-20 |
| Di-n-Butylphthalate | A | 5.0000 | 4.8 | 0.9469101 | 1.0782390 | | -3.6 | +/-20 |
| Fluoranthene | A | 5.0000 | 5.1 | 1.5175930 | 1.5490870 | | 2.1 | +/-20 |
| Pyrene | A | 5.0000 | 5.0 | 1.6000330 | 1.5864090 | | -0.9 | +/-20 |
| Butylbenzylphthalate | A | 5.0000 | 5.0 | 0.4562763 | 0.5515788 | | -0.7 | +/-20 |
| Benzo(a)anthracene | A | 5.0000 | 4.9 | 1.3399020 | 1.3175480 | | -1.7 | +/-20 |
| 3,3'-Dichlorobenzidine | A | 10.000 | 10.3 | 0.3826468 | 0.3937657 | | 2.9 | +/-20 |
| Chrysene | A | 5.0000 | 4.6 | 1.2879040 | 1.1735600 | | -8.9 | +/-20 |
| bis(2-Ethylhexyl)phthalate | A | 5.0000 | 5.3 | 0.5161185 | 0.6406338 | | 5.5 | +/-20 |
| Di-n-Octylphthalate | A | 5.0000 | 5.2 | 1.0531830 | 1.0916890 | | 3.7 | +/-20 |
| Benzo(a)fluoranthene, Total | A | 10.000 | 9.6 | 1.2927770 | 1.2361330 | | -4.4 | +/-20 |
| Benzo(a)pyrene | A | 5.0000 | 4.9 | 1.1338150 | 1.1080230 | | -2.3 | +/-20 |
| Indeno(1,2,3-cd)pyrene | A | 5.0000 | 4.9 | 1.4272450 | 1.3963220 | | -2.2 | +/-20 |
| Dibenzo(a,h)anthracene | A | 5.0000 | 4.9 | 1.2122070 | 1.1896140 | | -1.9 | +/-20 |
| Benzo(g,h,i)perylene | A | 5.0000 | 4.9 | 1.2448130 | 1.2095830 | | -2.8 | +/-20 |
| 1-Methylnaphthalene | A | 5.0000 | 4.9 | 0.7274101 | 0.7085858 | | -2.6 | +/-20 |

* Values outside of QC limits

Data File: \\target\share\chem3\nt14,1\20230228,16\NT1423022812.D

Date: 28-FEB-2023 17:41

Client ID:

Sample Info: SLB0374-SCV1

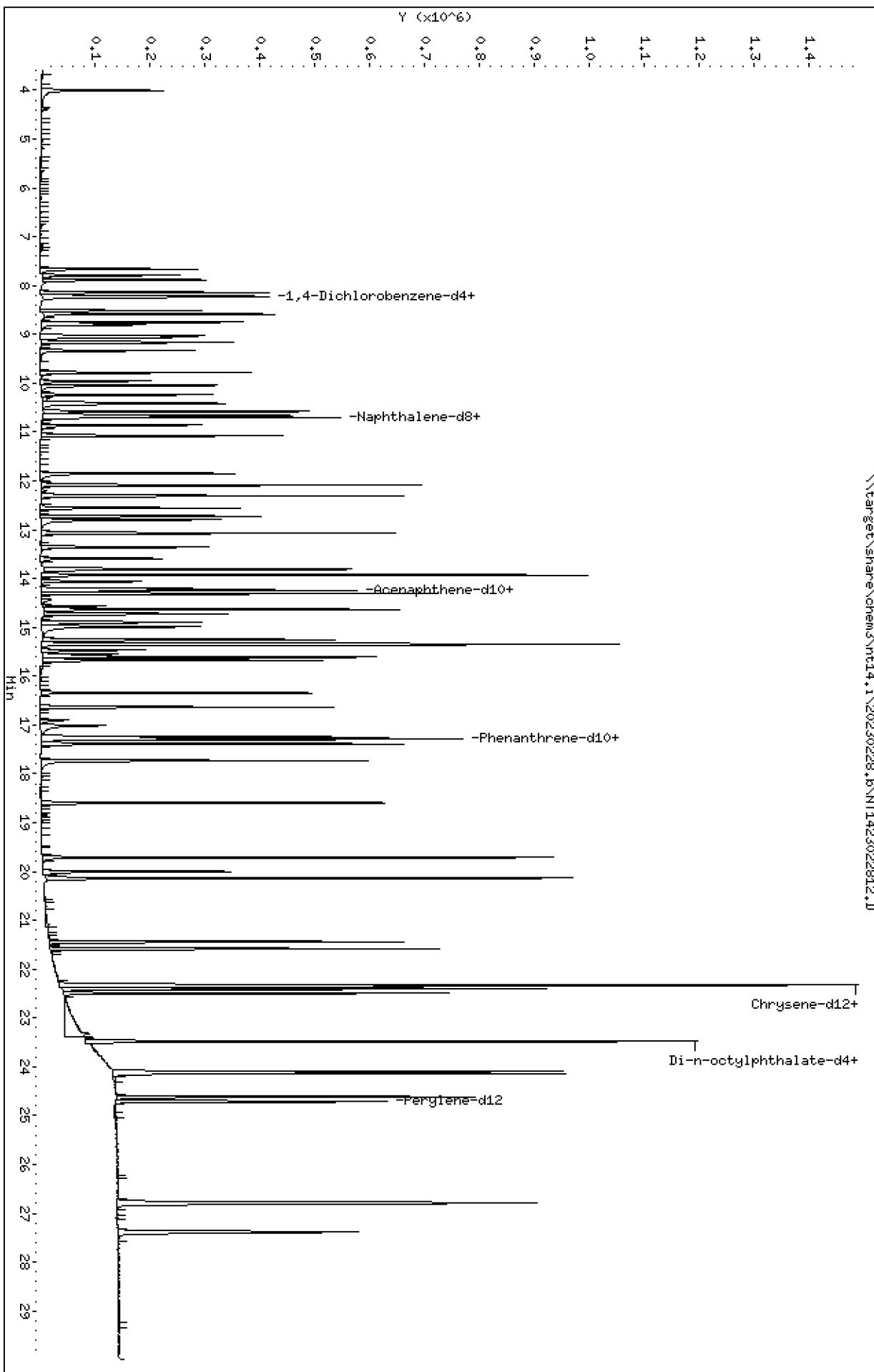
Column phase: ZB-5msi

Instrument: nt14,1

Operator: JGR

Column diameter: 0.25

\\target\share\chem3\nt14,1\20230228,16\NT1423022812.D



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

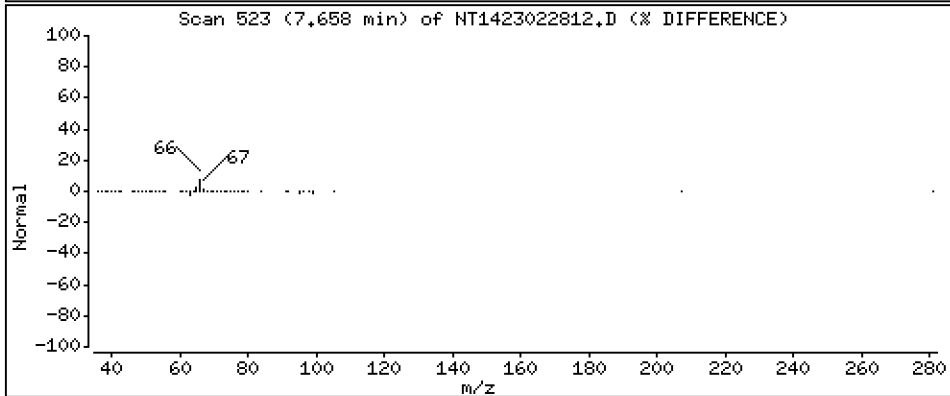
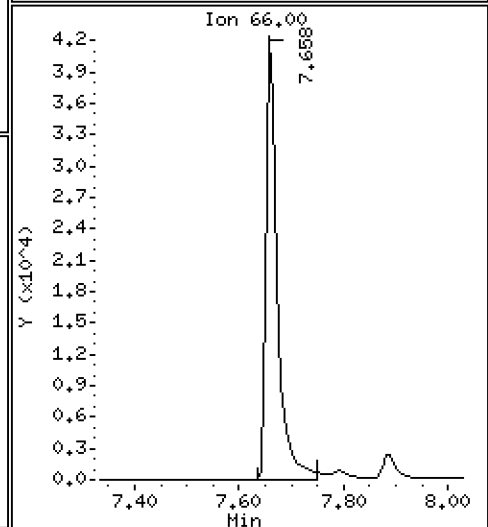
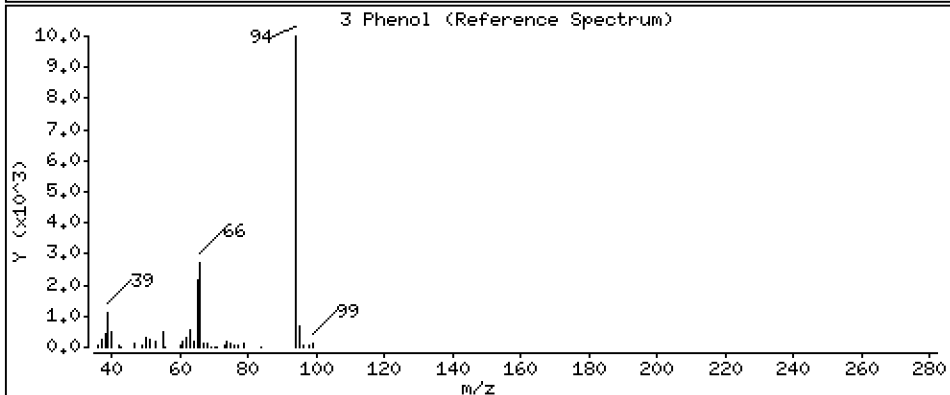
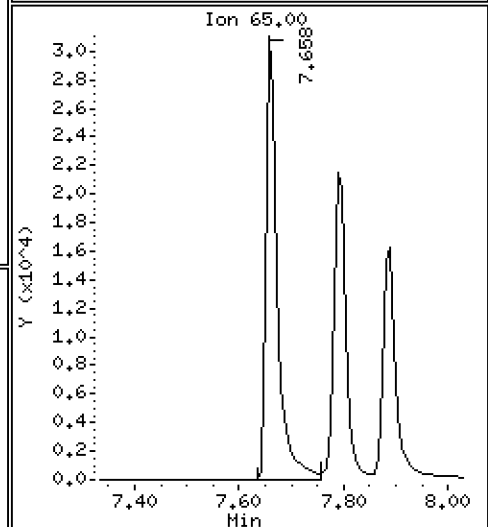
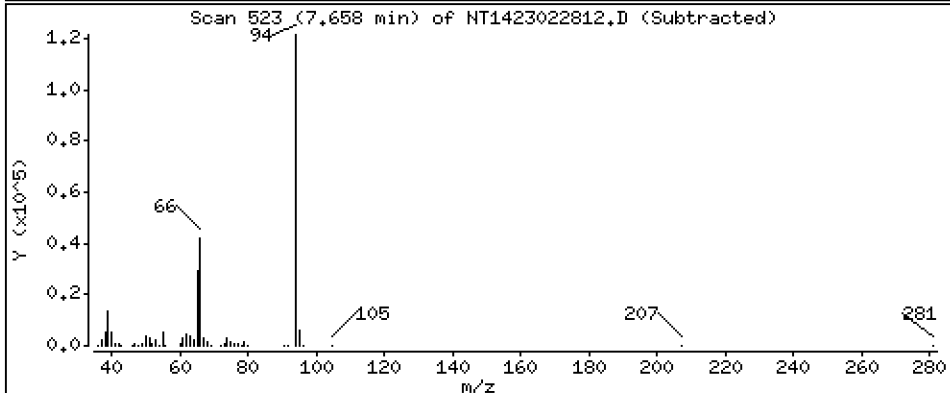
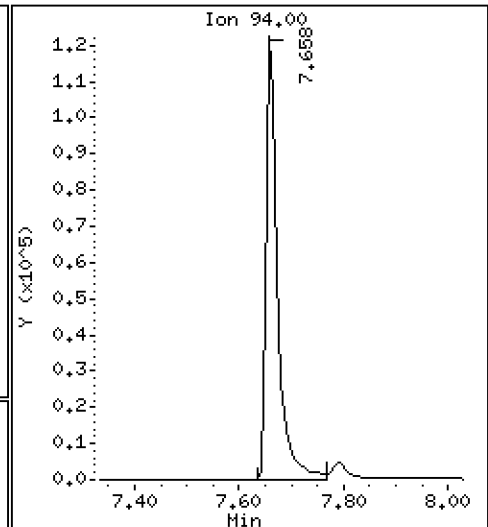
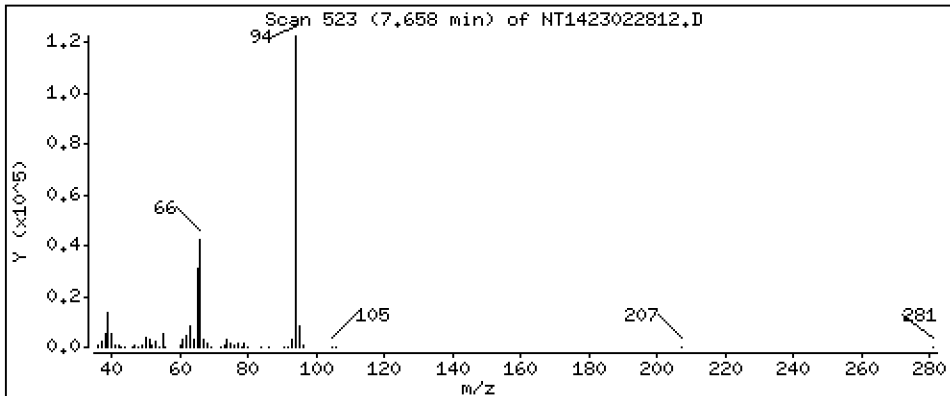
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

3 Phenol

Concentration: 3.935 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

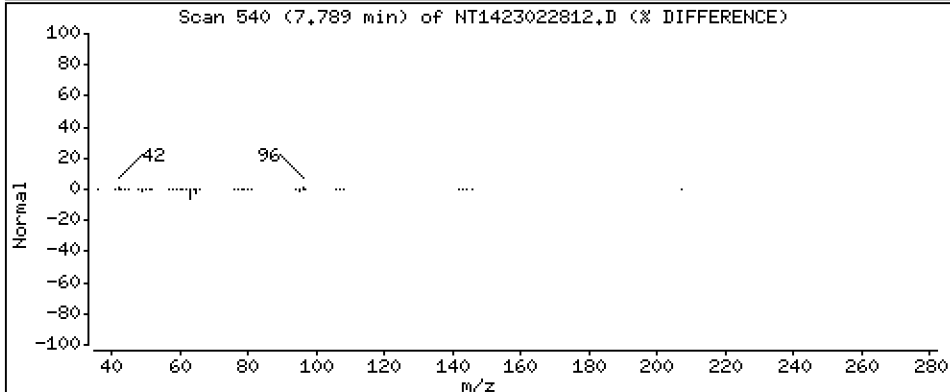
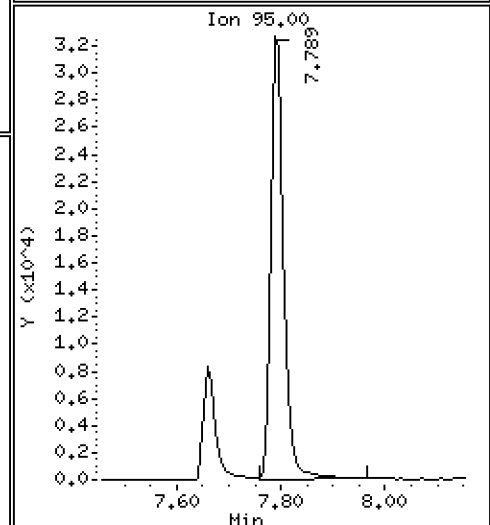
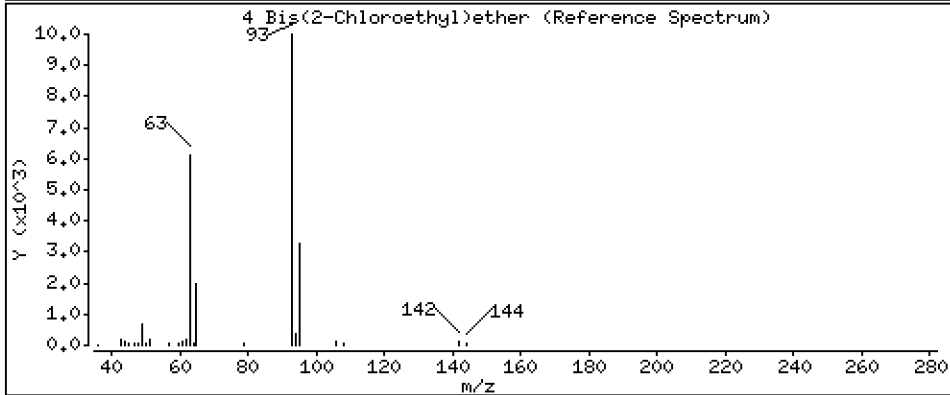
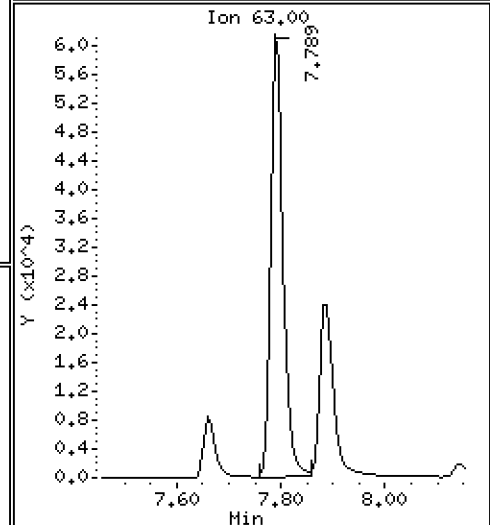
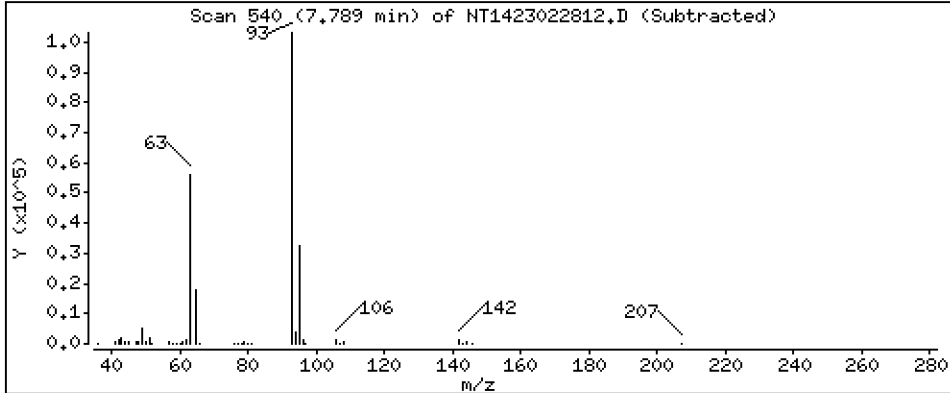
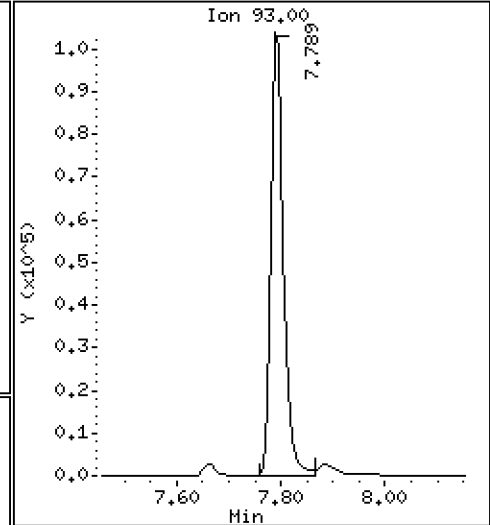
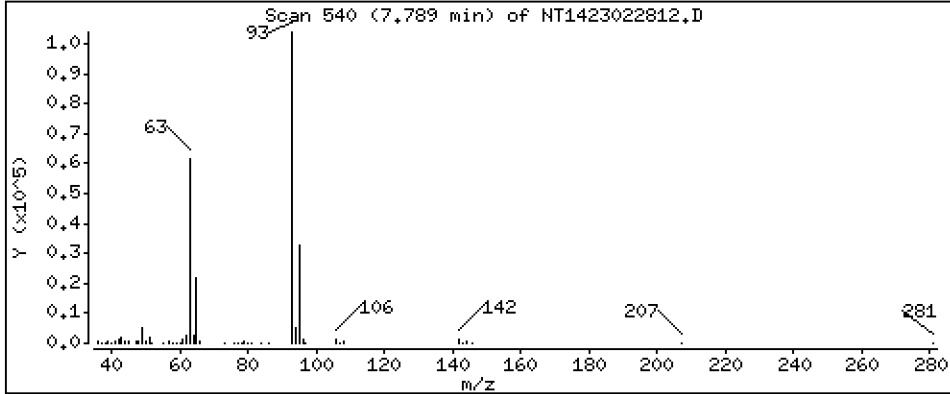
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

4 Bis(2-Chloroethyl)ether

Concentration: 5.224 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

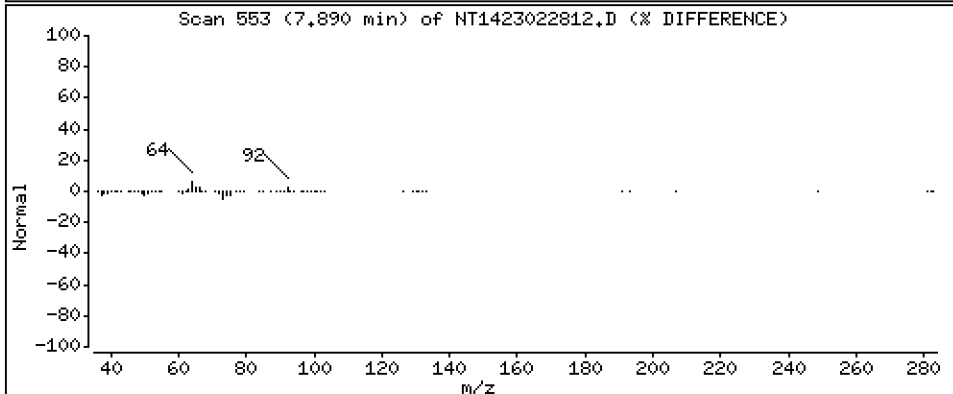
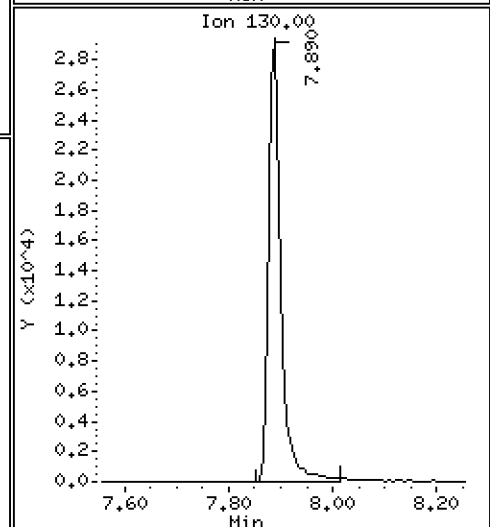
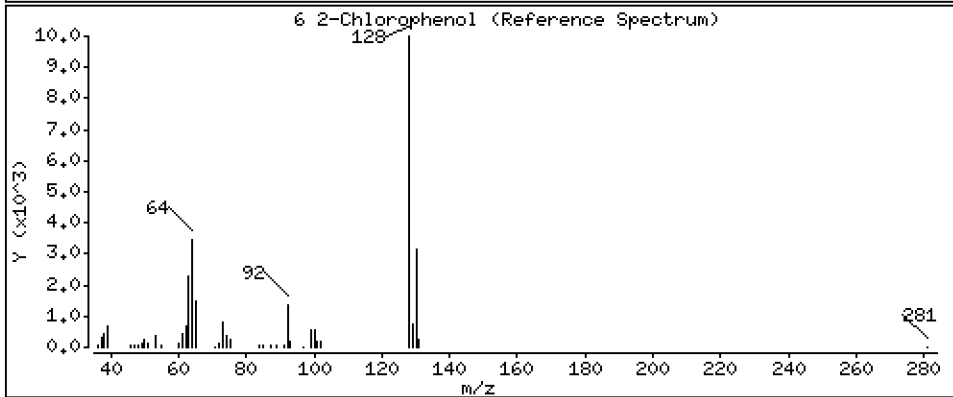
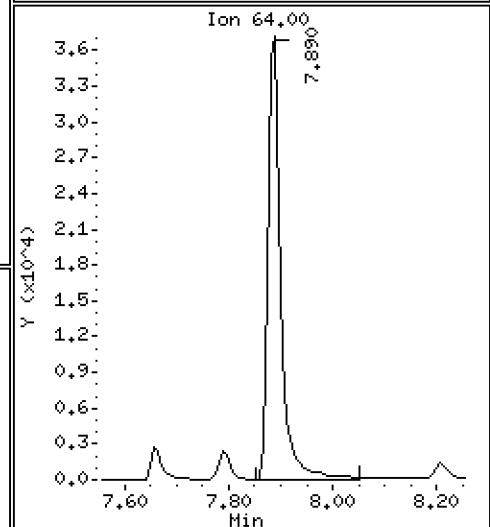
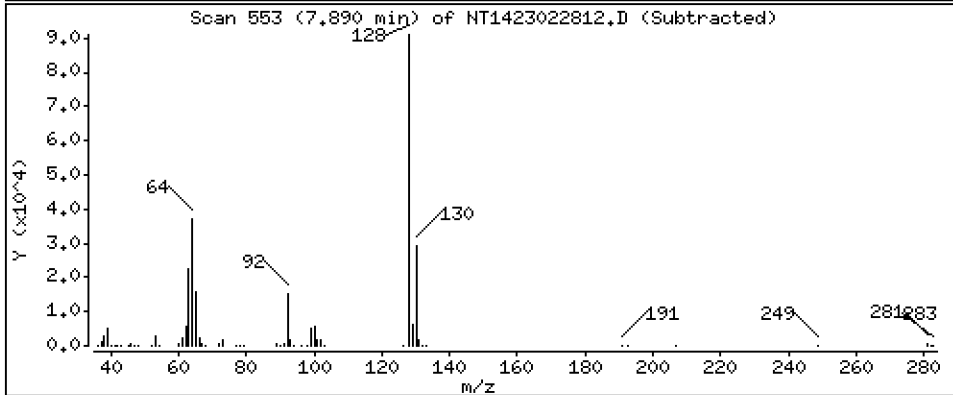
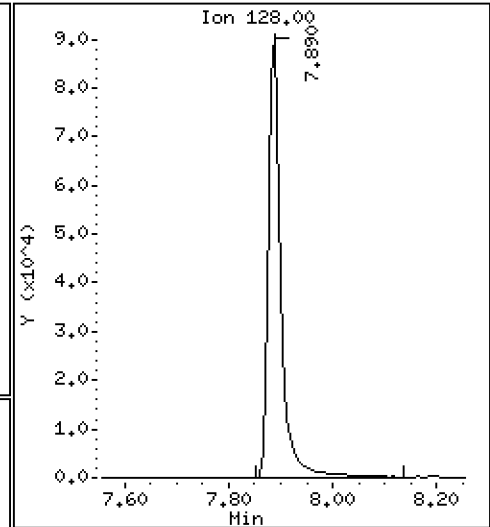
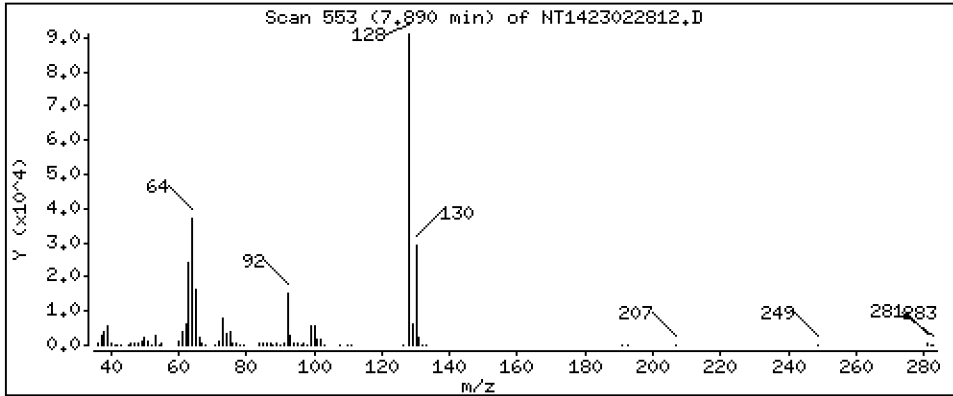
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 4,632 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

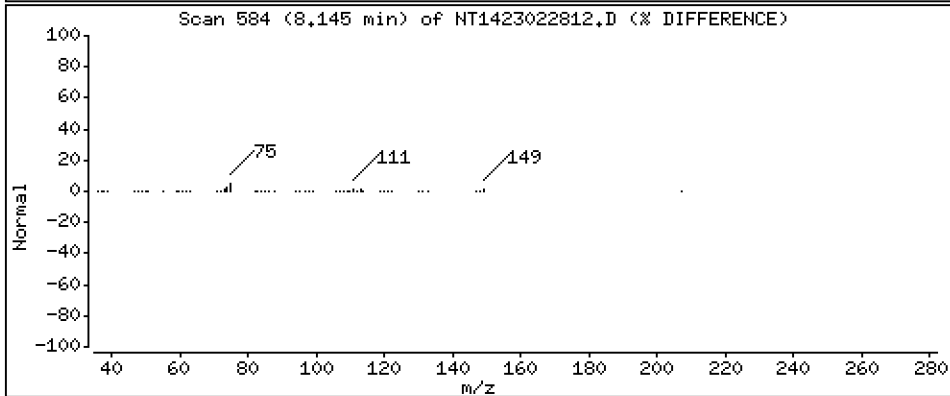
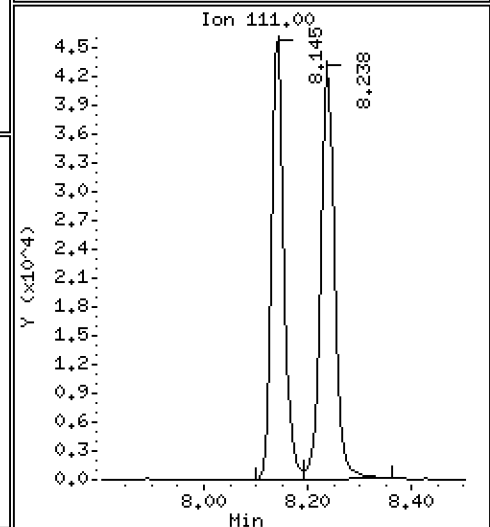
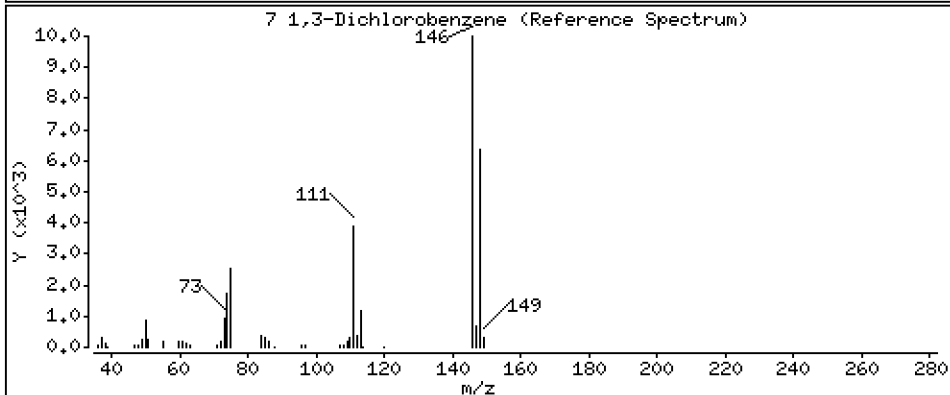
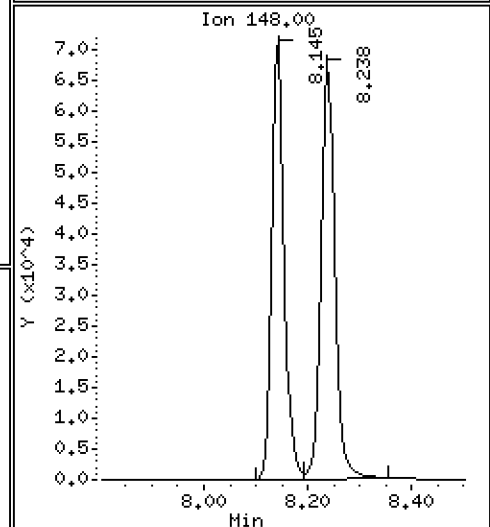
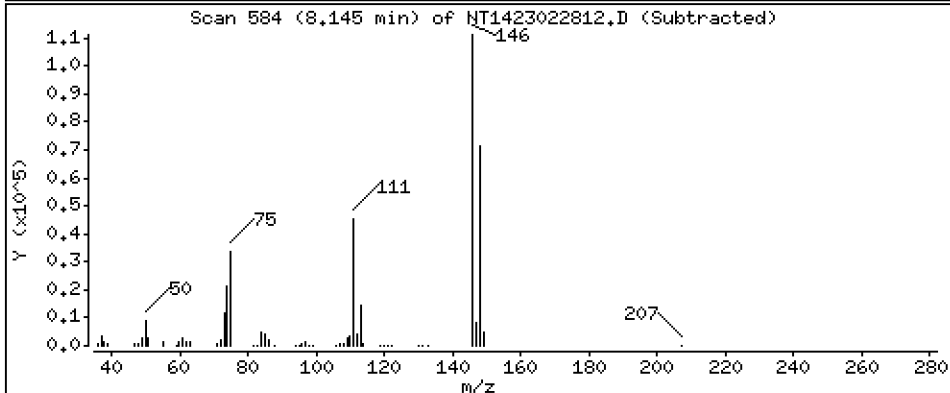
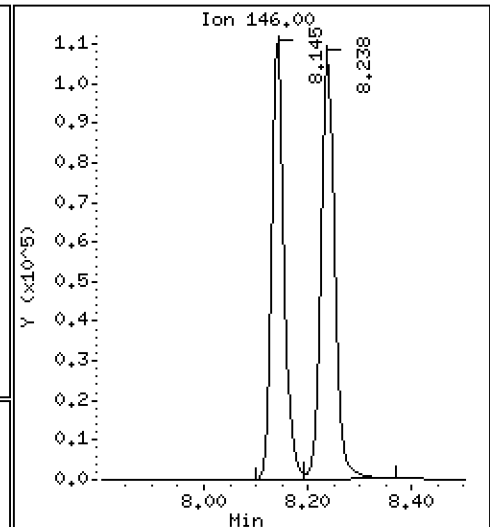
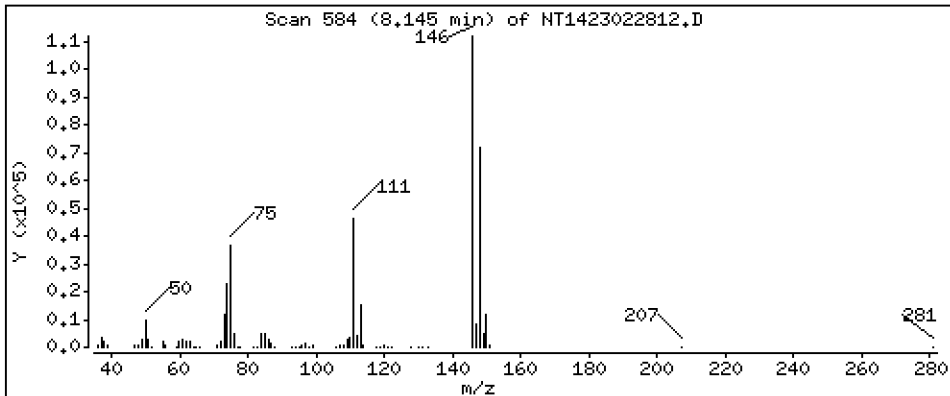
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

7 1,3-Dichlorobenzene

Concentration: 4,795 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

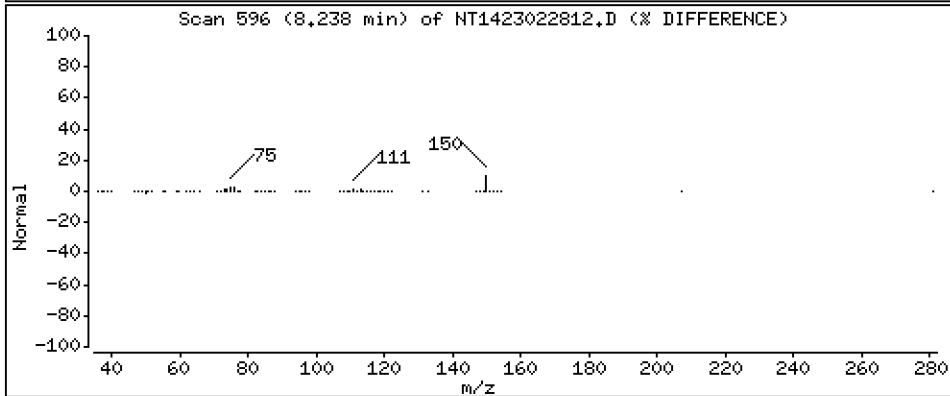
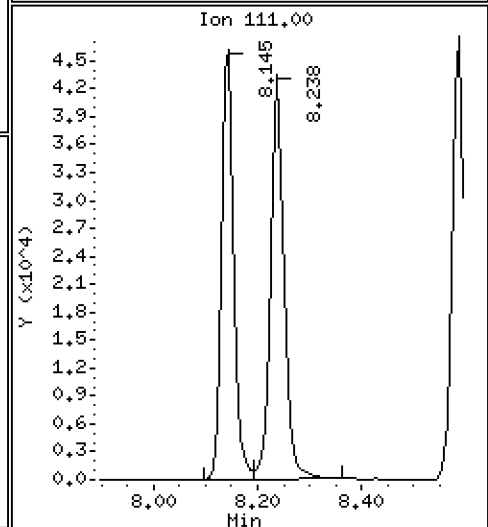
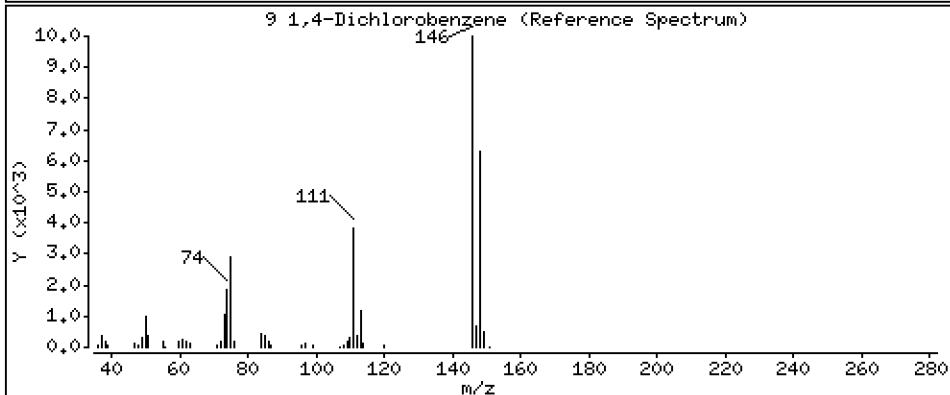
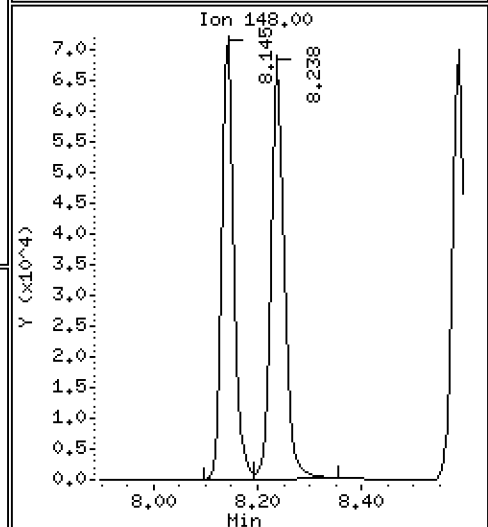
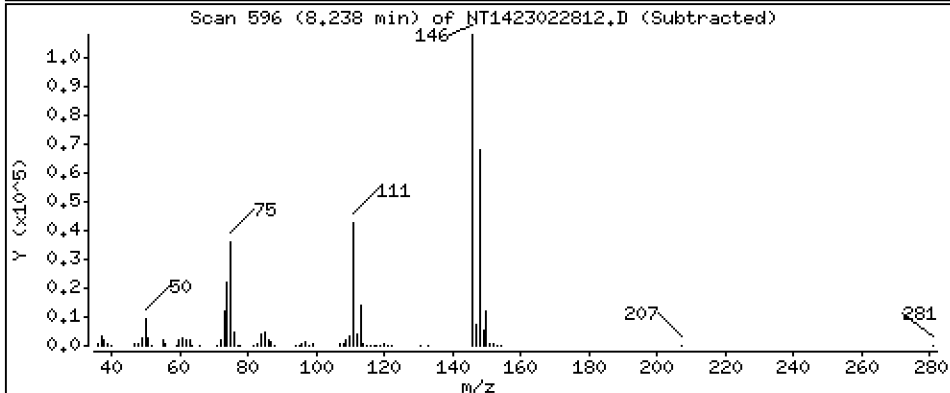
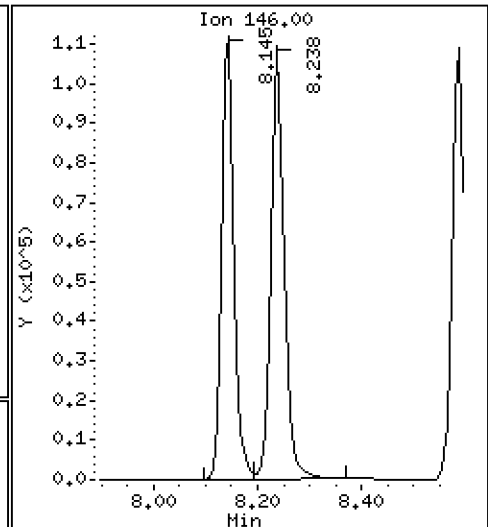
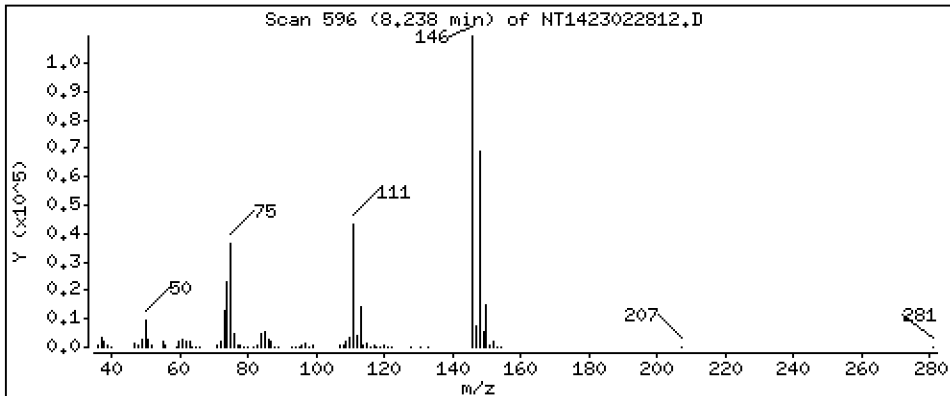
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 4,800 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

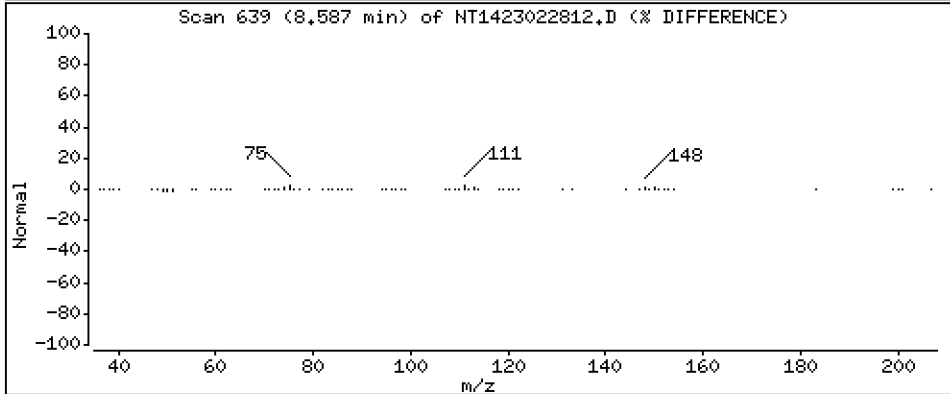
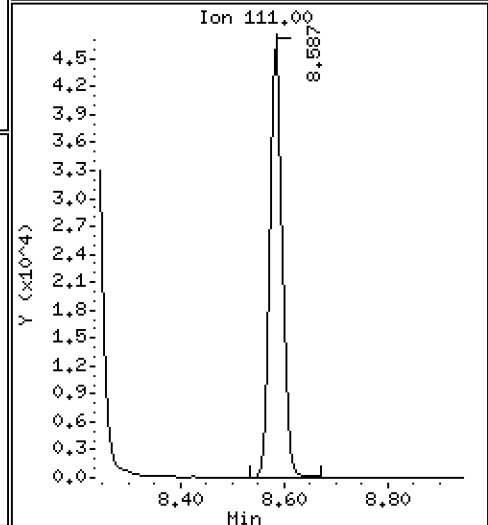
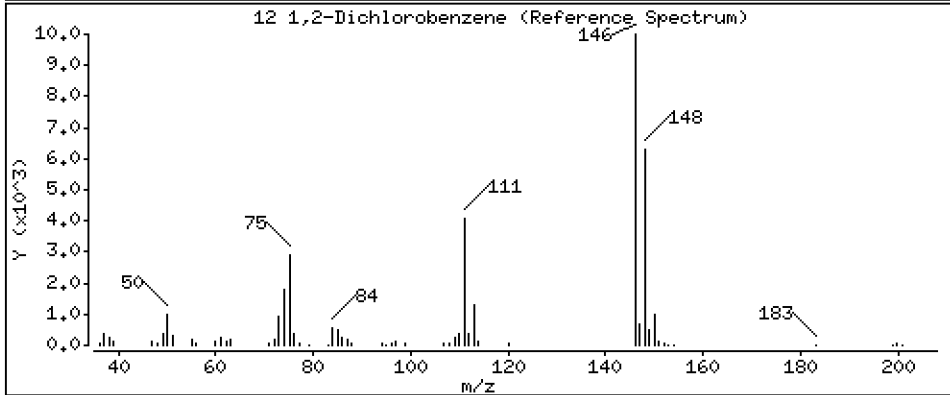
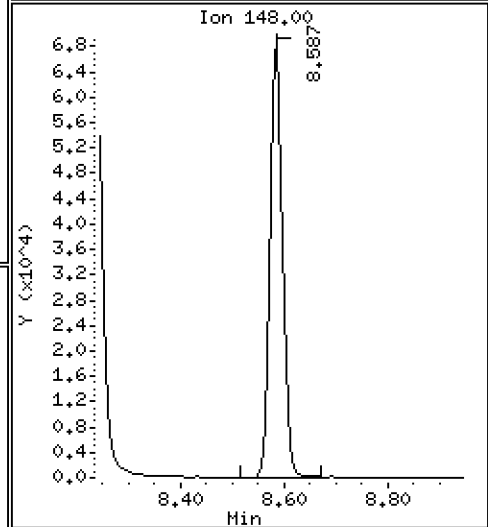
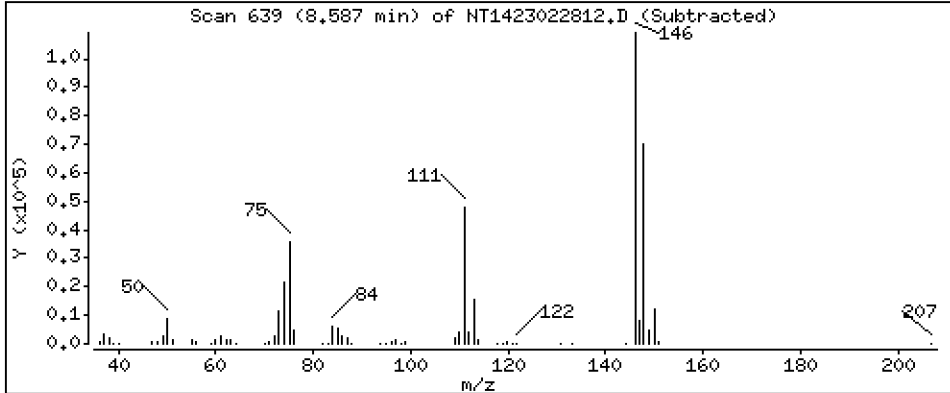
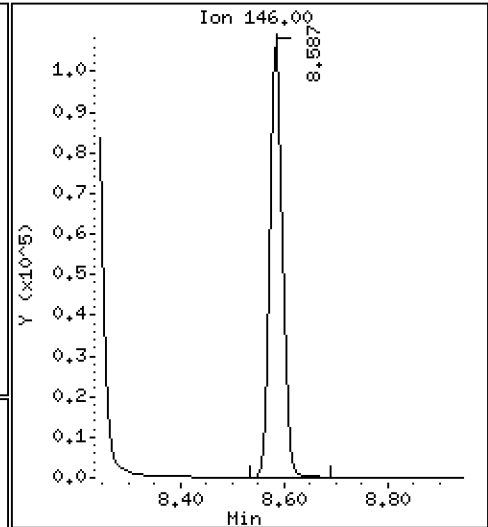
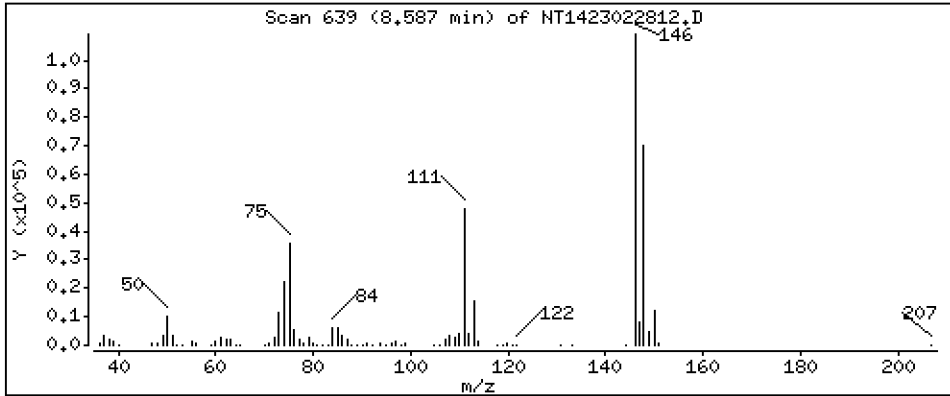
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

12 1,2-Dichlorobenzene

Concentration: 4.807 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

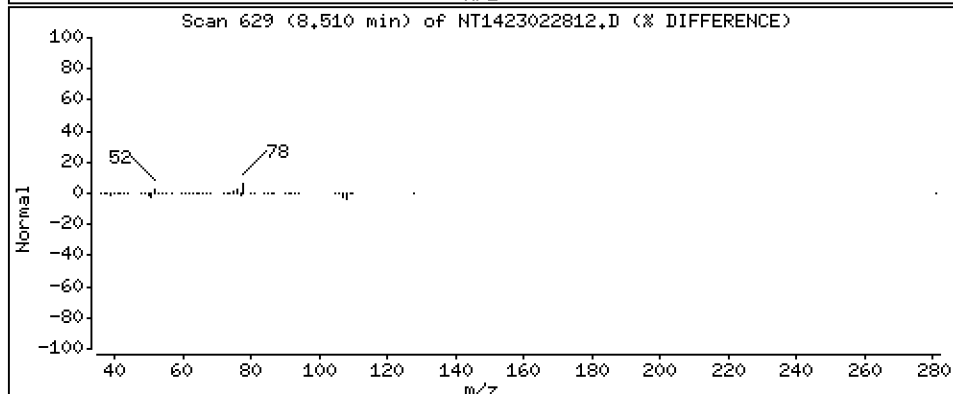
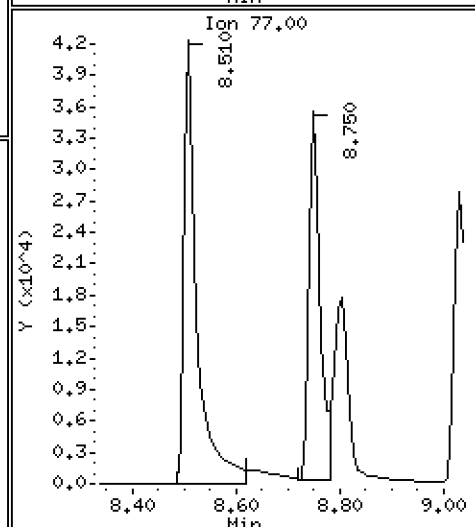
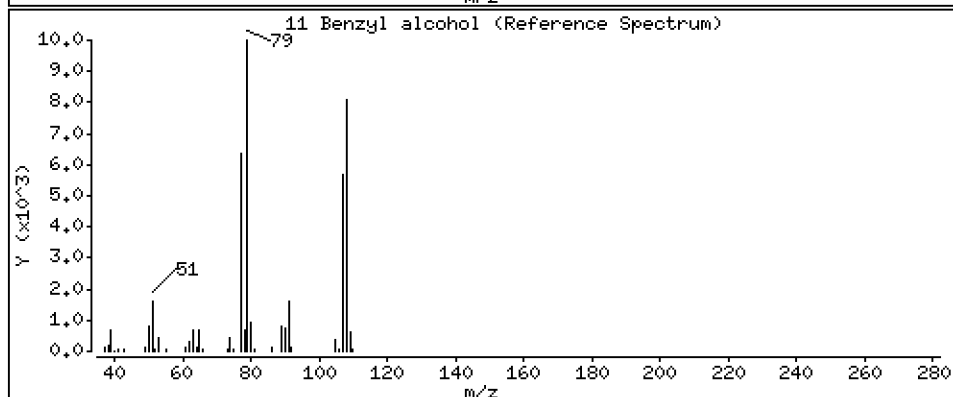
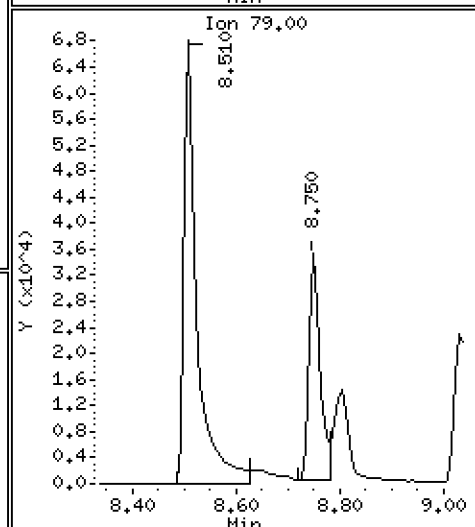
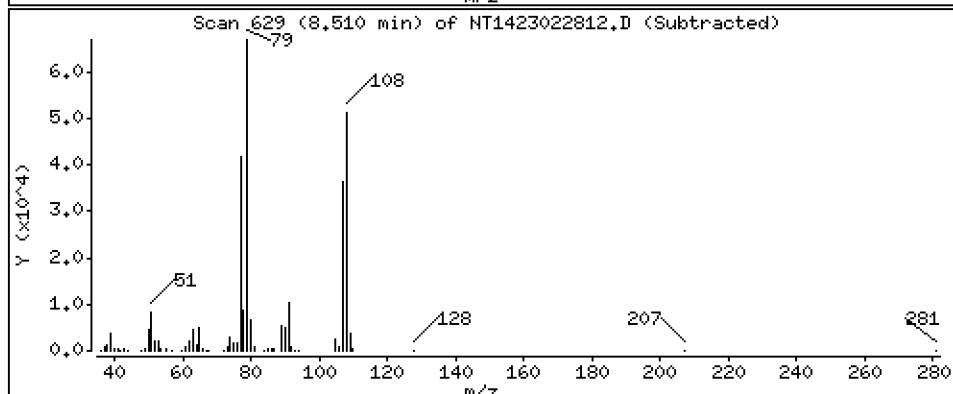
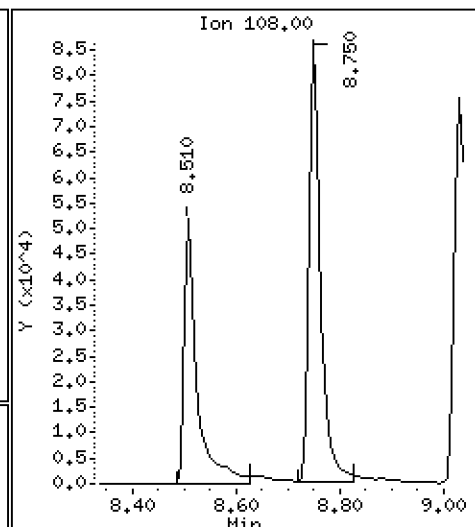
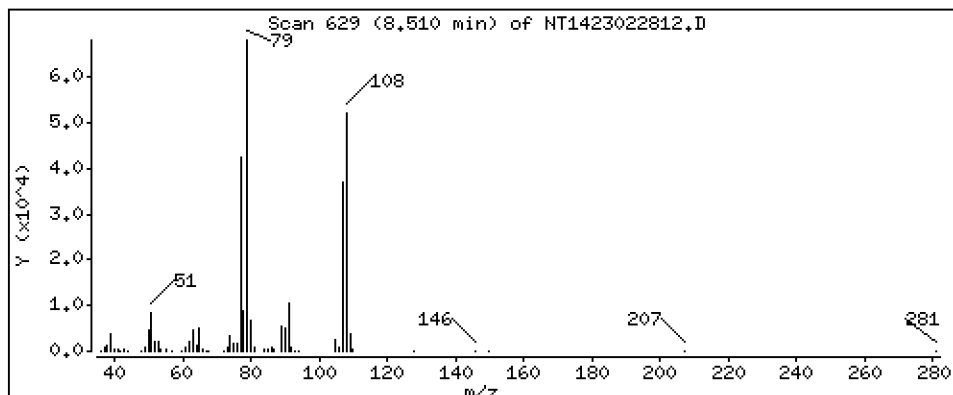
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 4.304 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

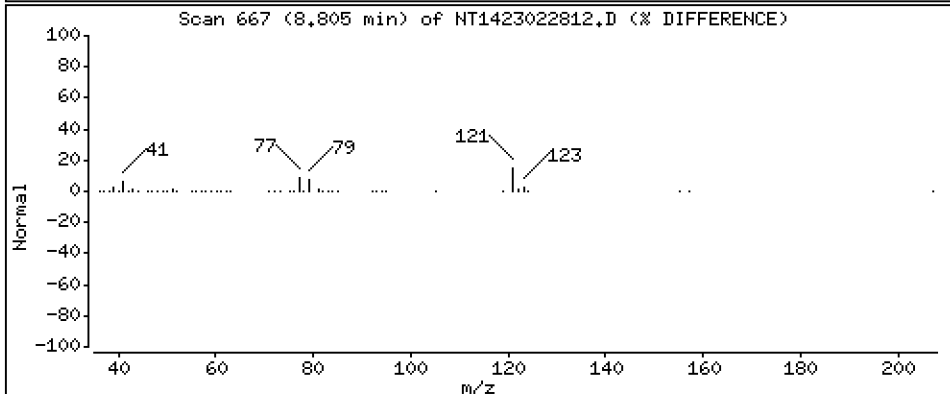
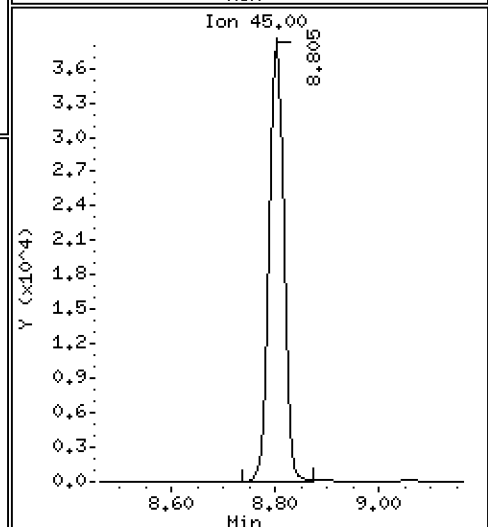
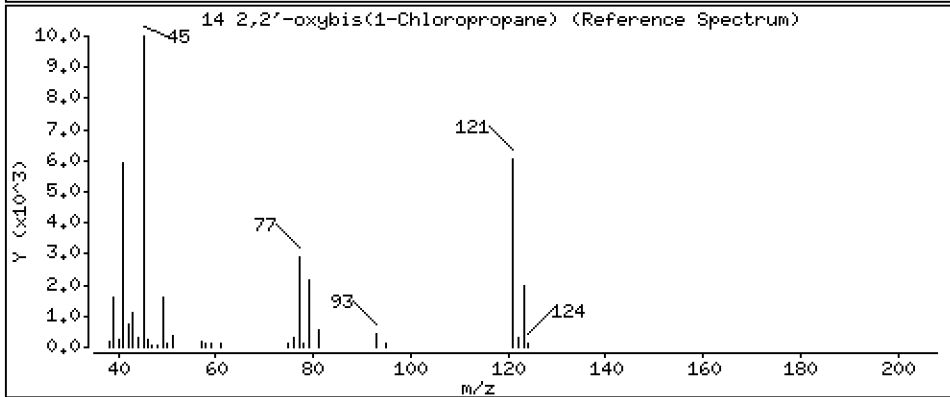
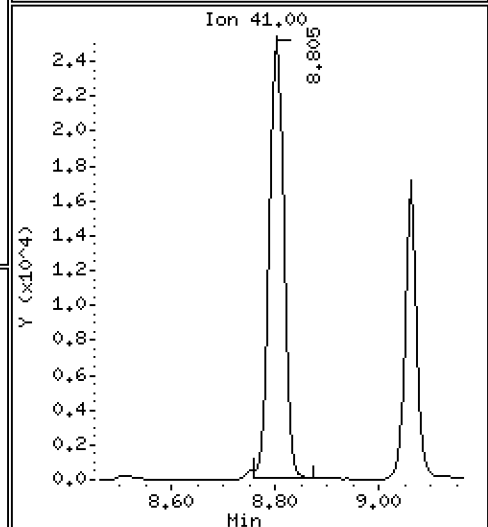
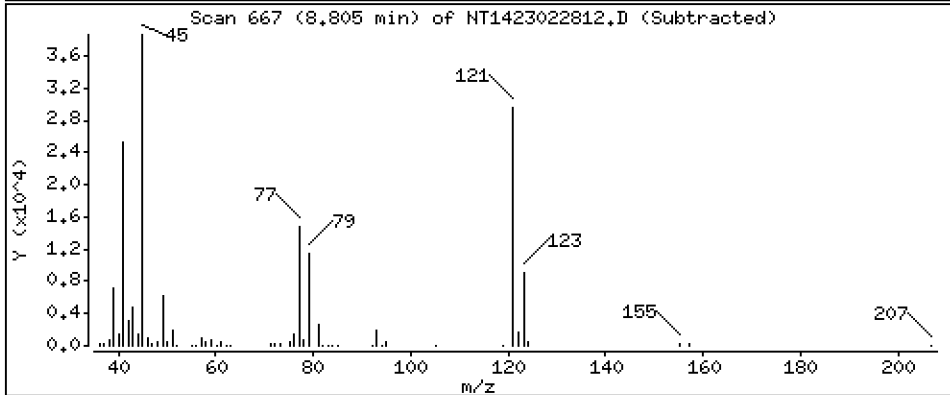
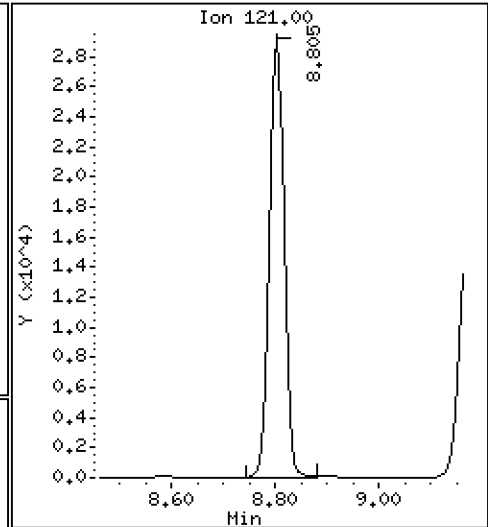
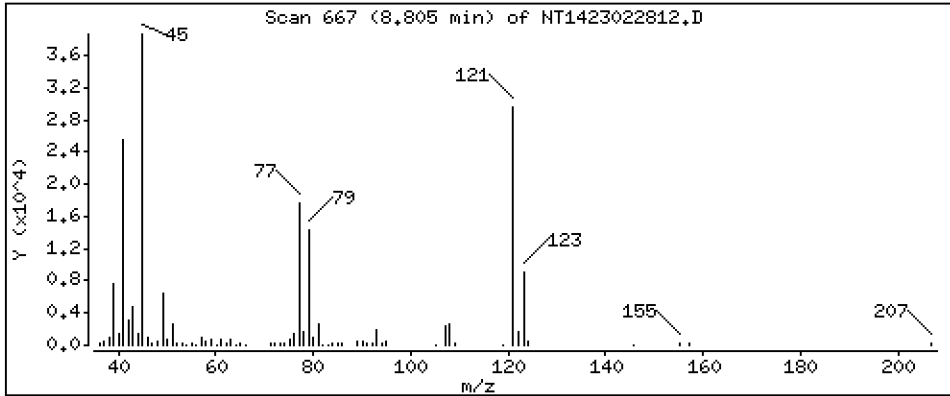
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 5,510 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

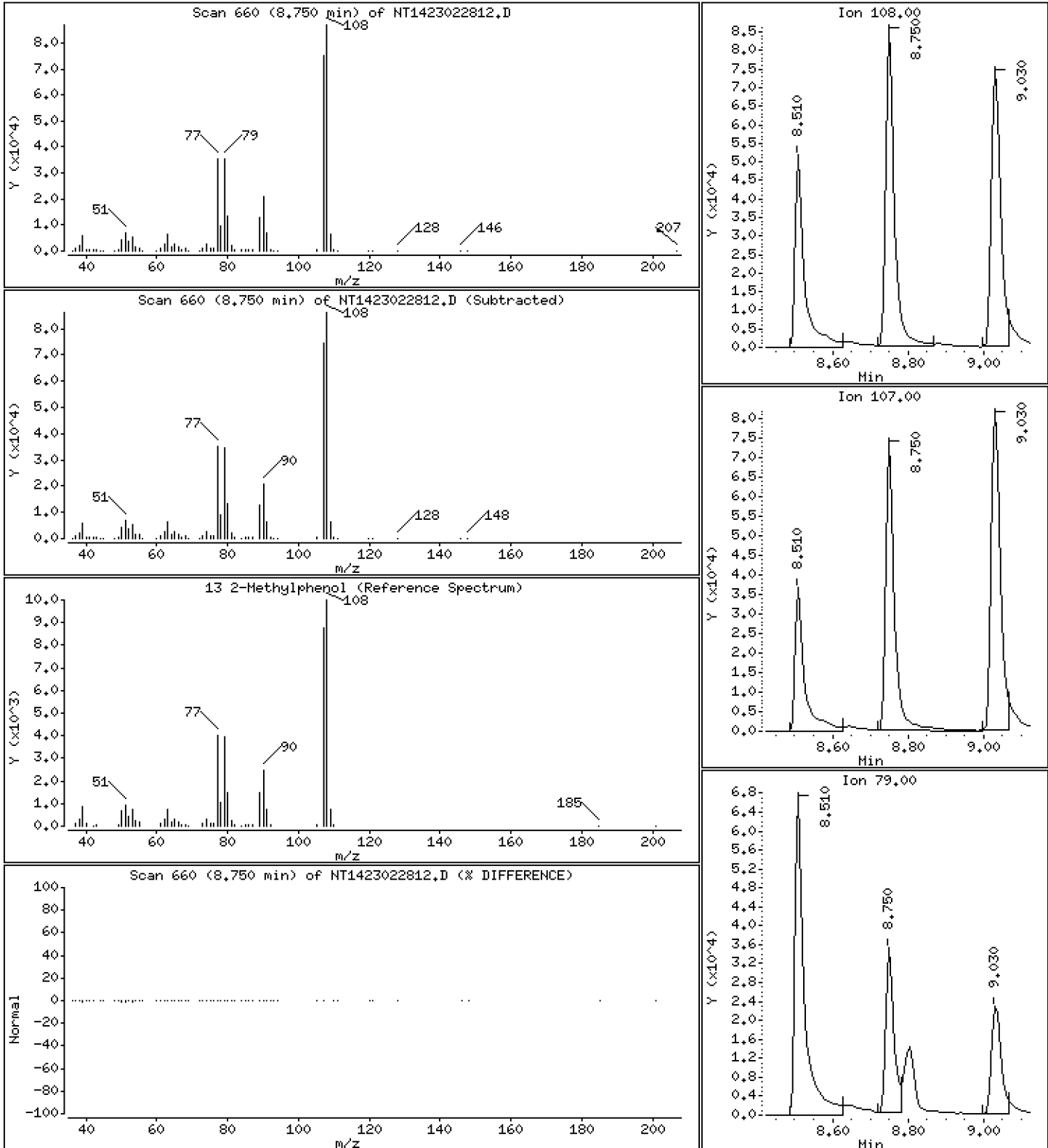
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

13 2-Methylphenol

Concentration: 4.407 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

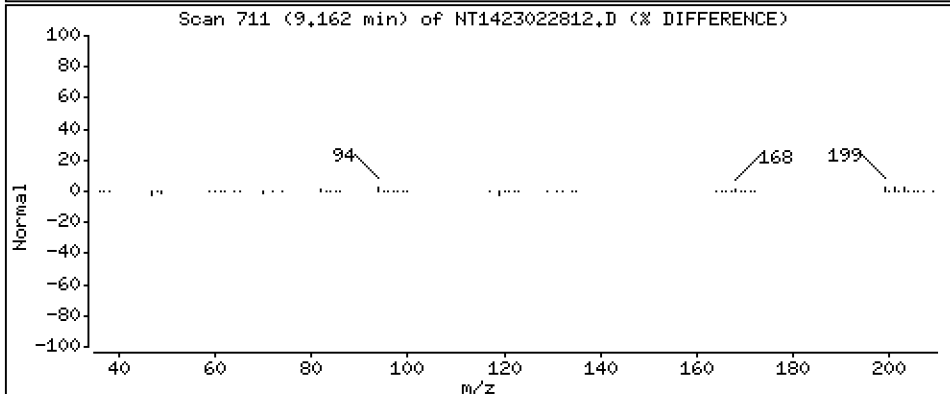
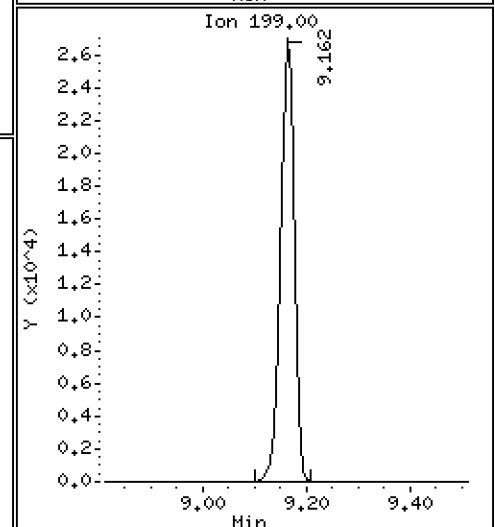
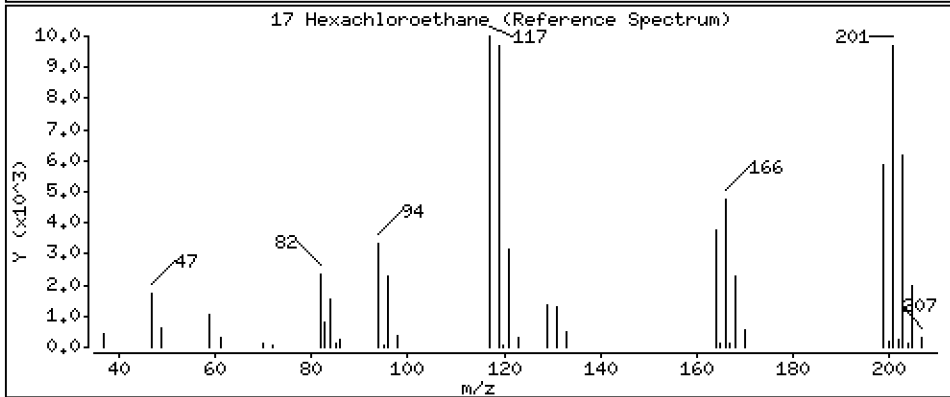
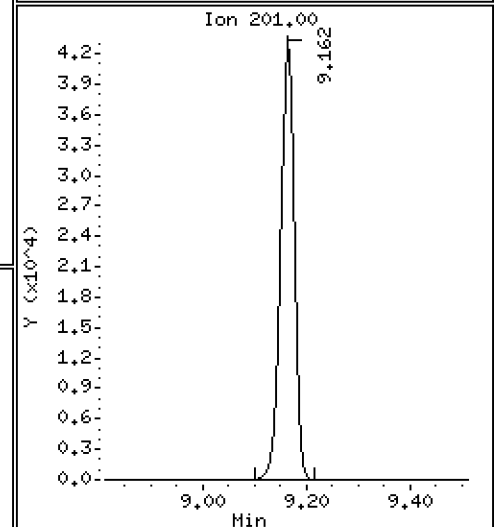
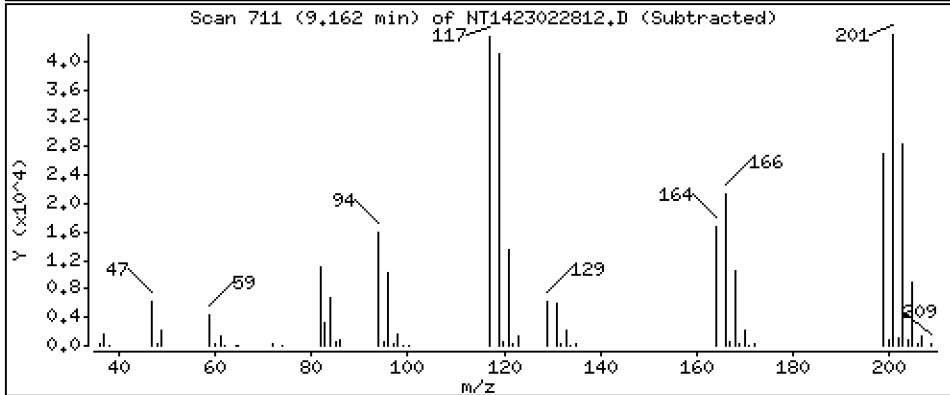
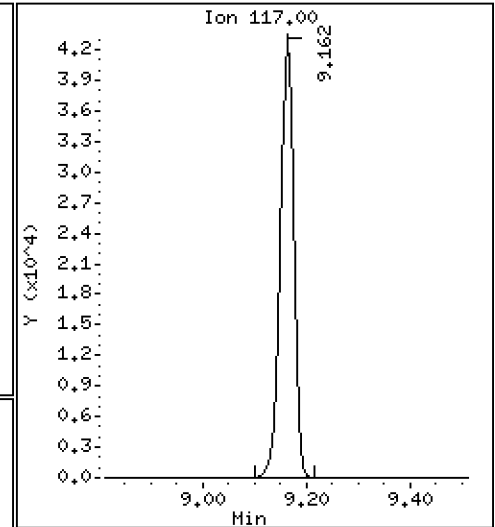
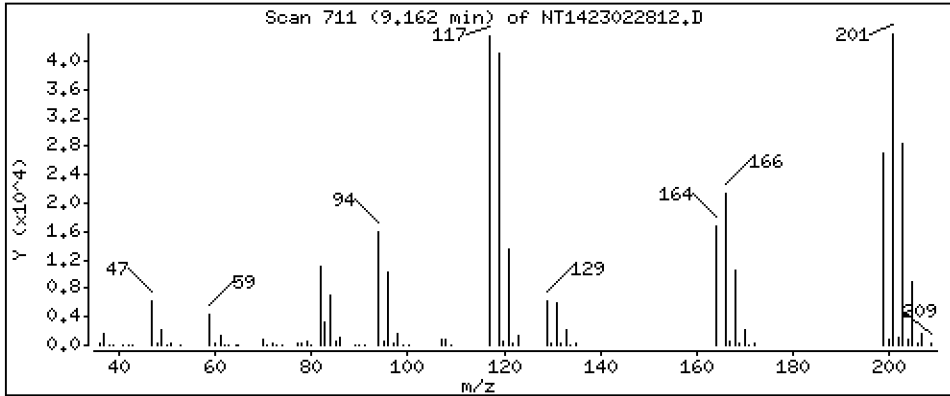
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

17 Hexachloroethane

Concentration: 5.089 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

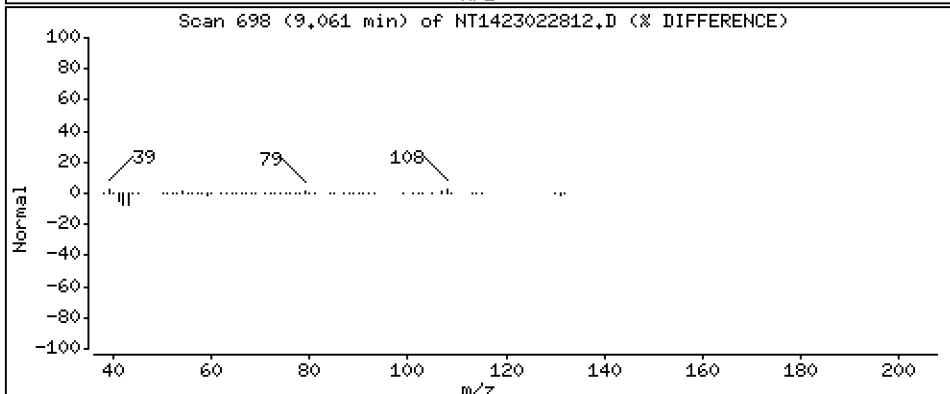
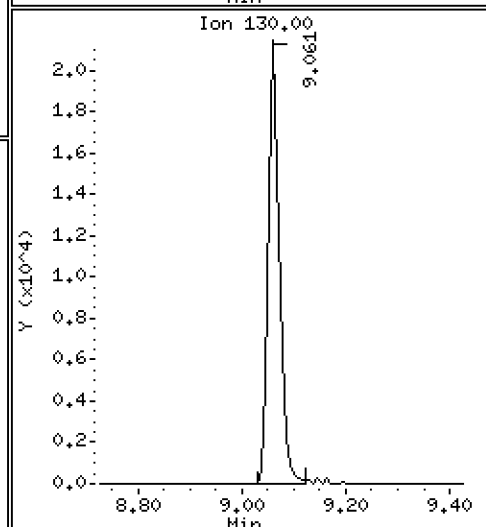
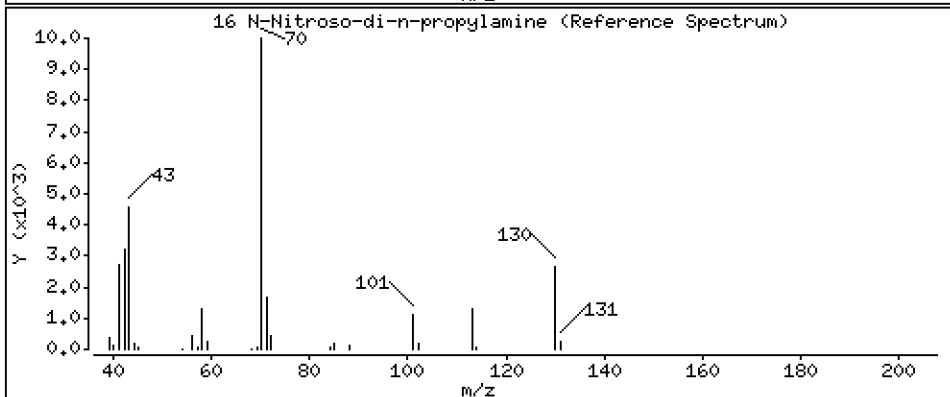
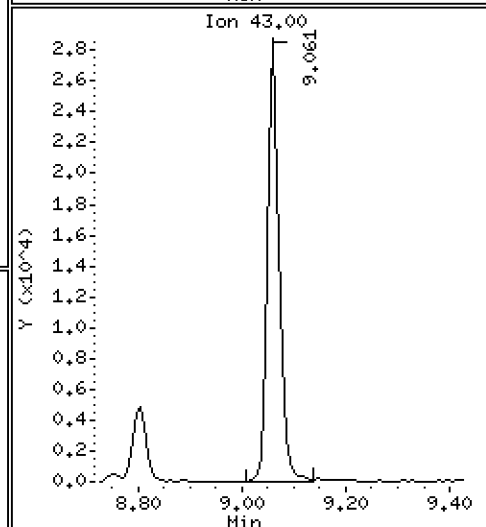
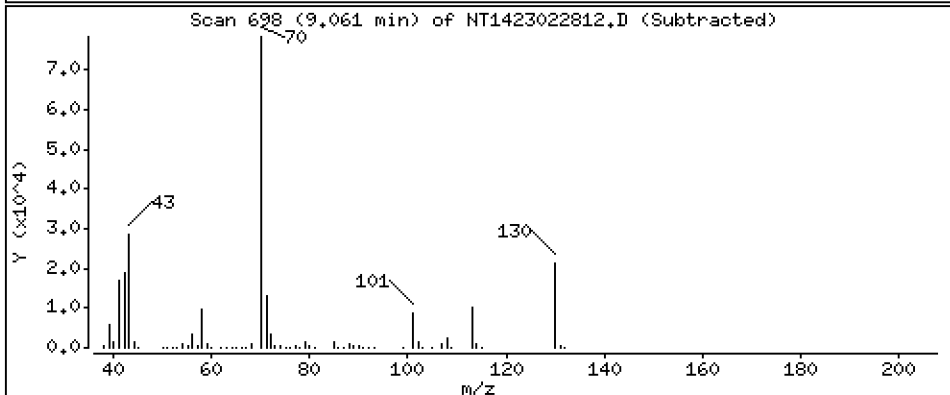
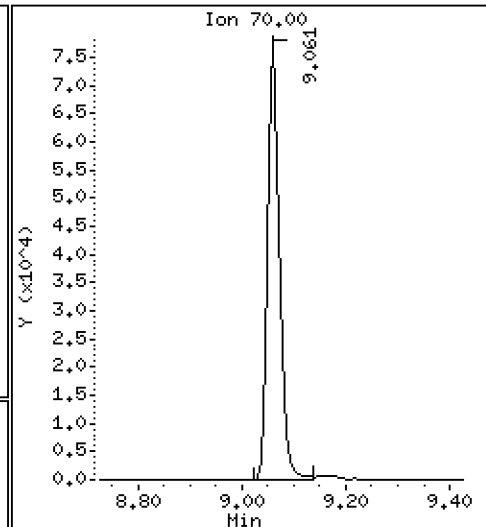
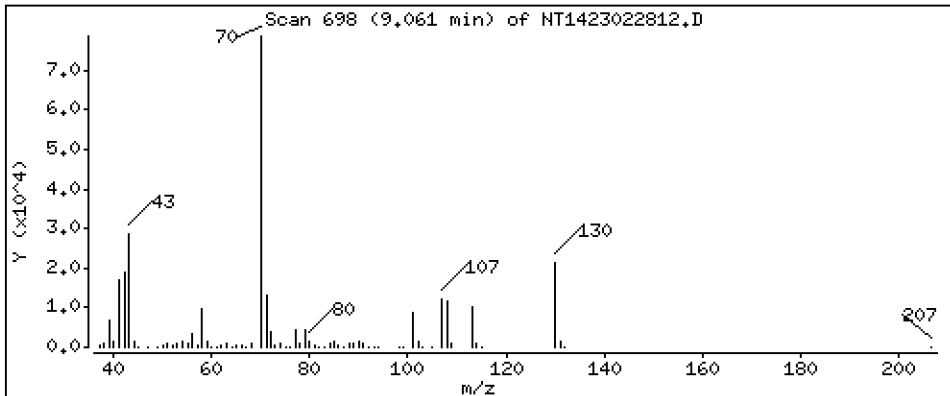
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

16 N-Nitroso-di-n-propylamine

Concentration: 5.138 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

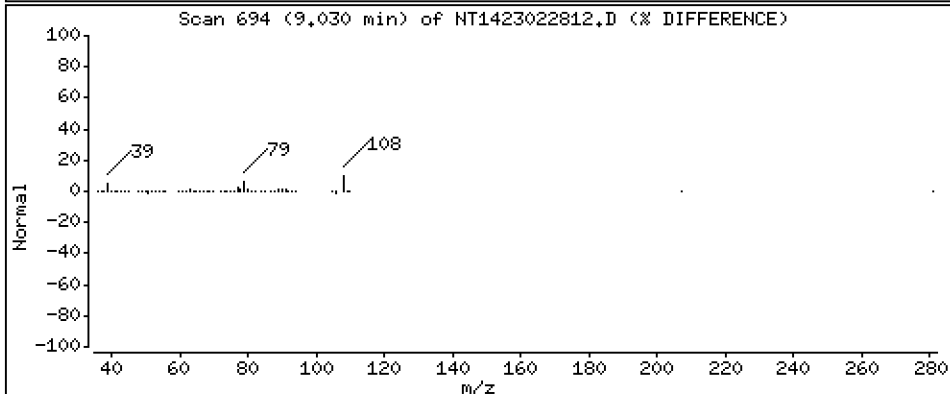
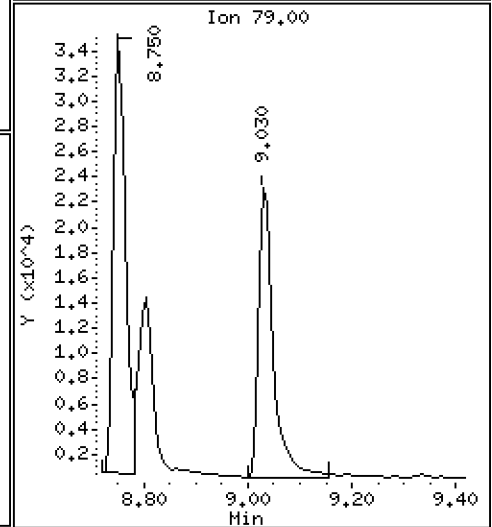
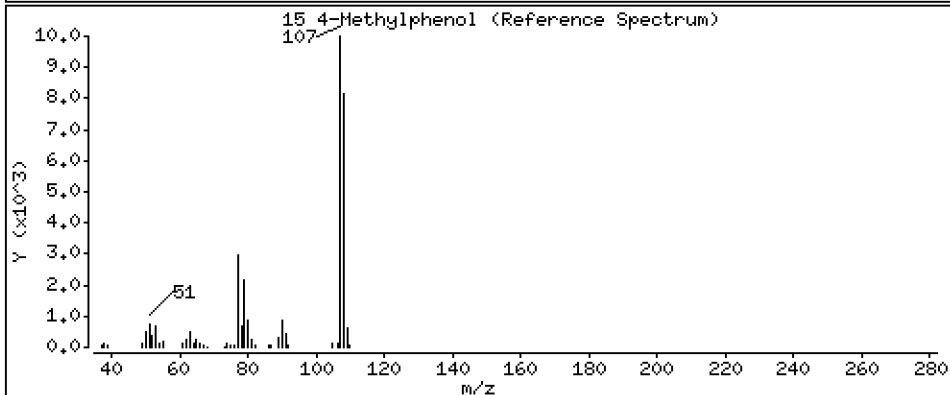
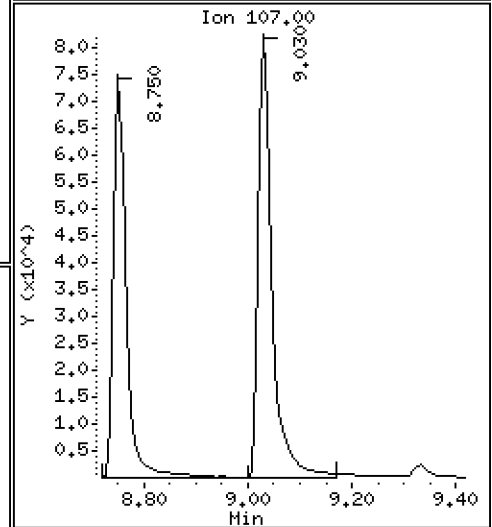
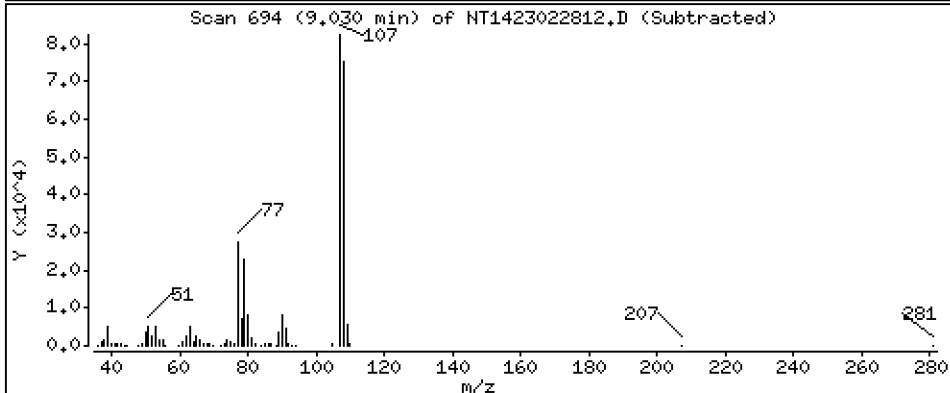
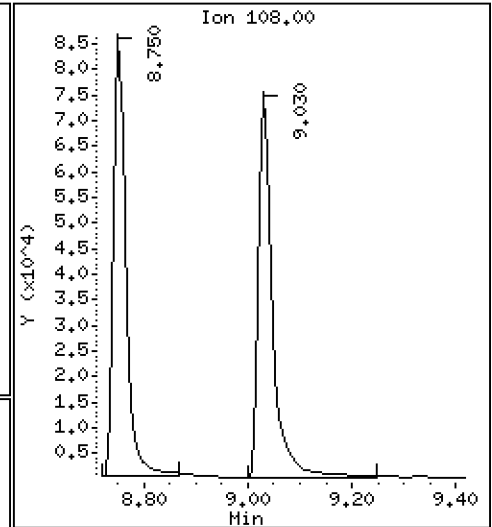
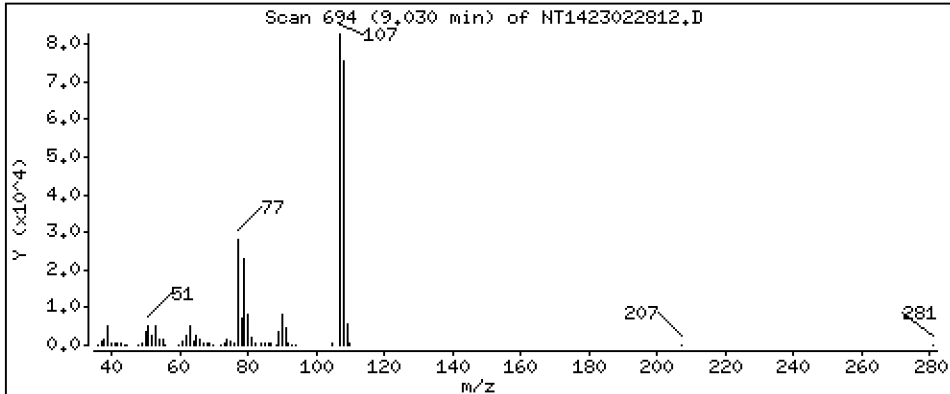
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 4.218 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

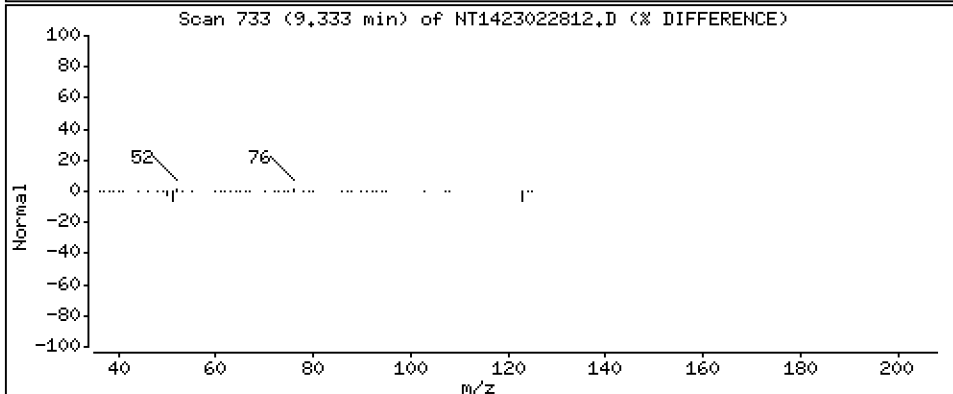
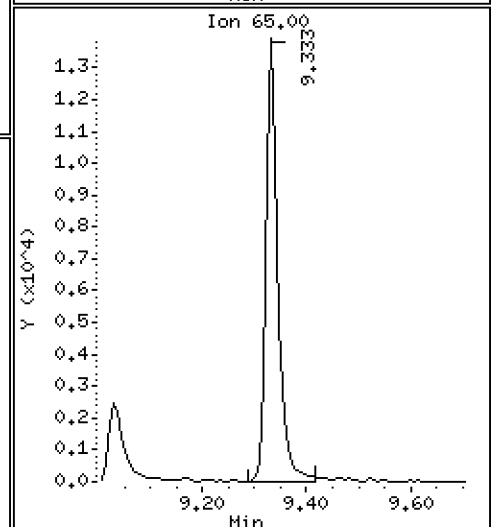
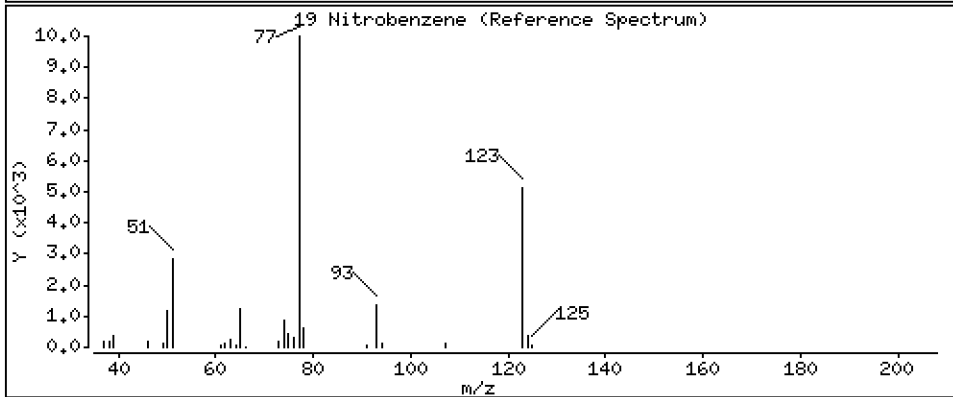
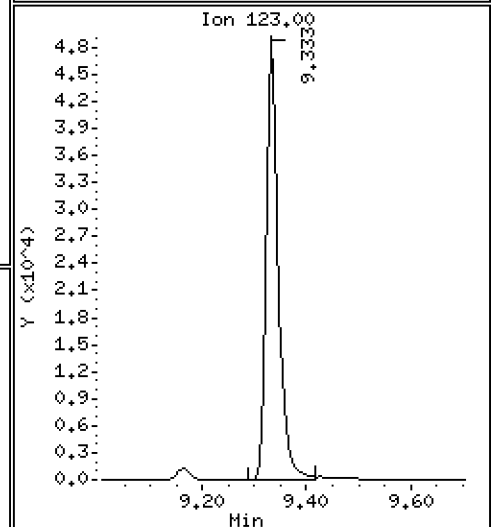
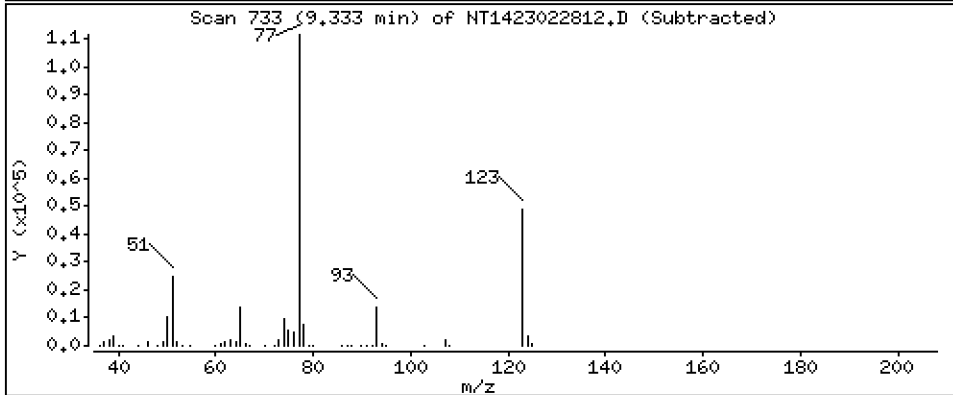
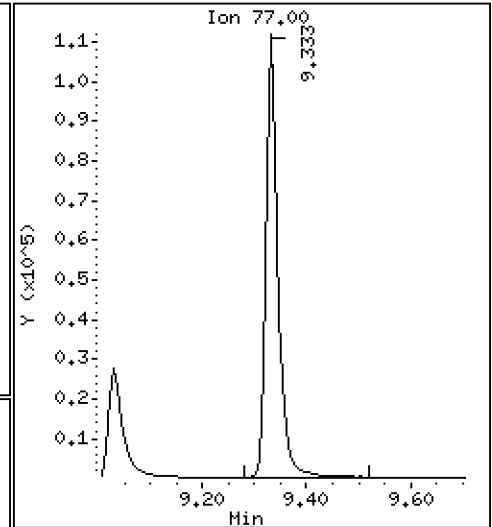
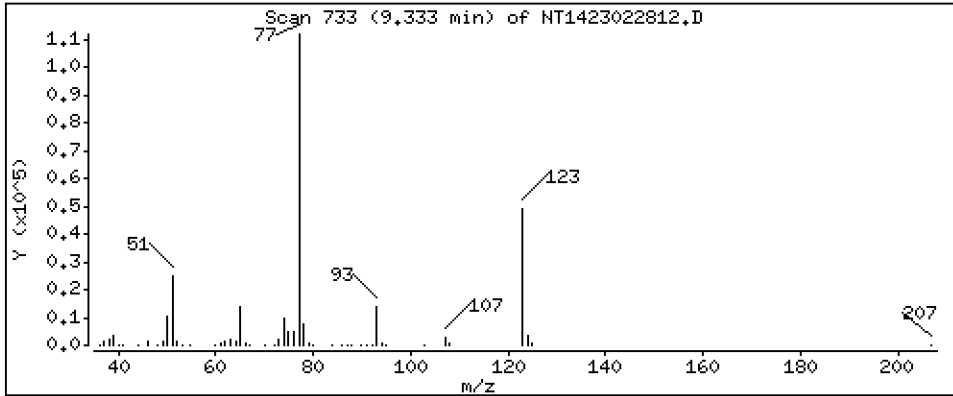
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

Concentration: 5,059 ug/mL

19 Nitrobenzene



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

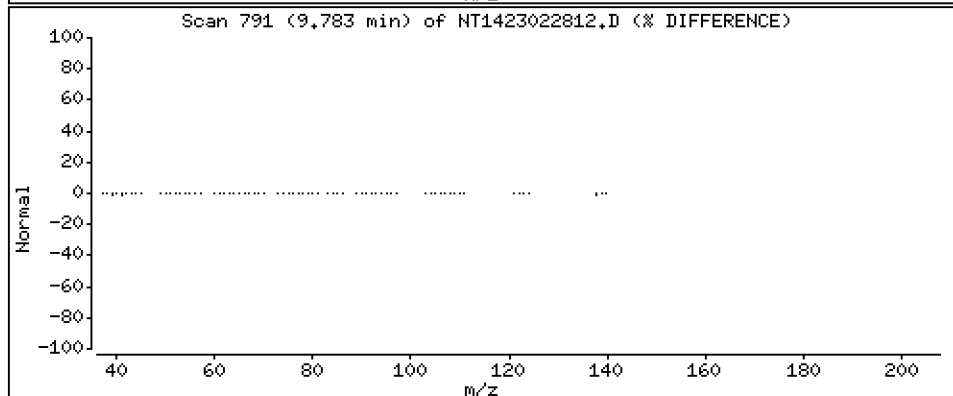
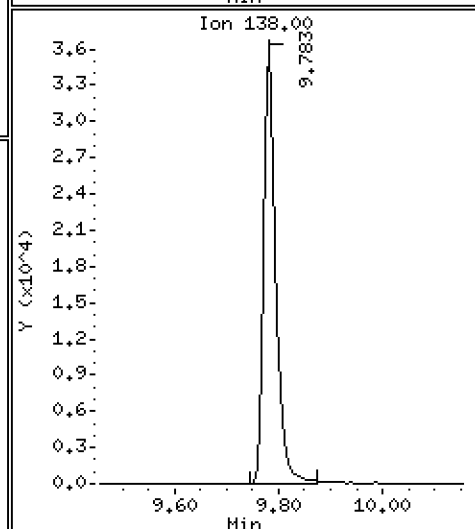
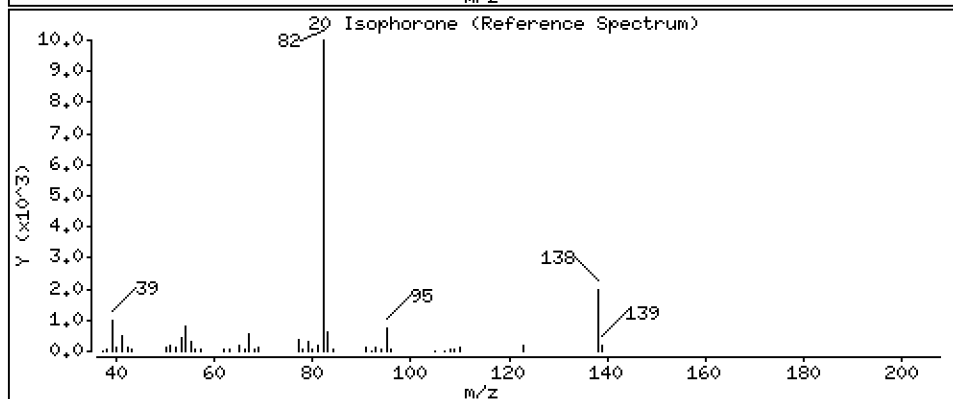
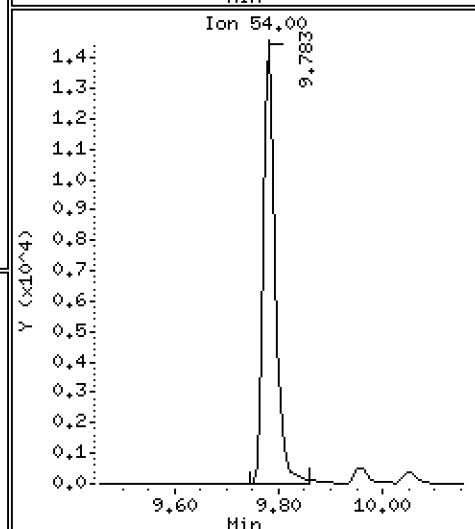
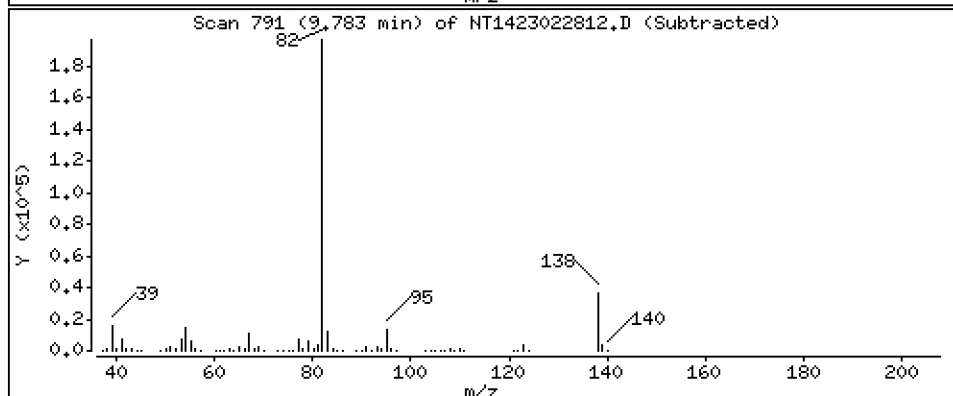
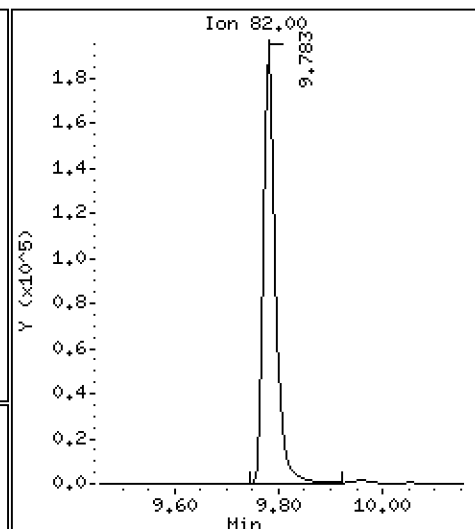
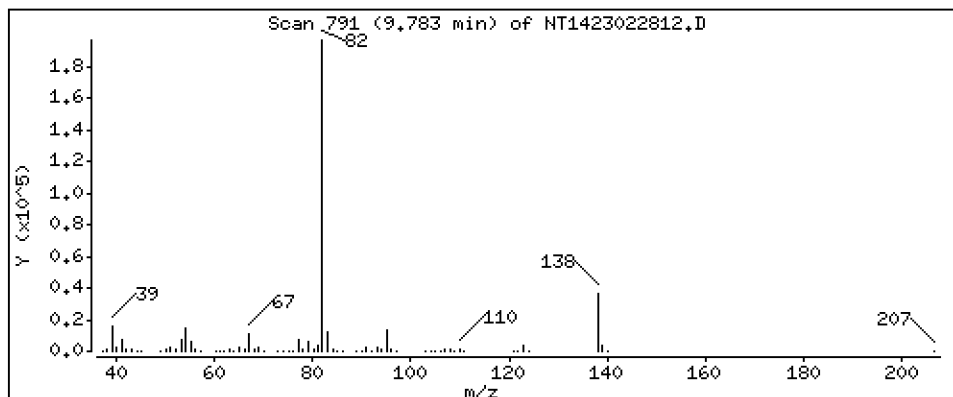
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

20 Isophorone

Concentration: 6.410 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

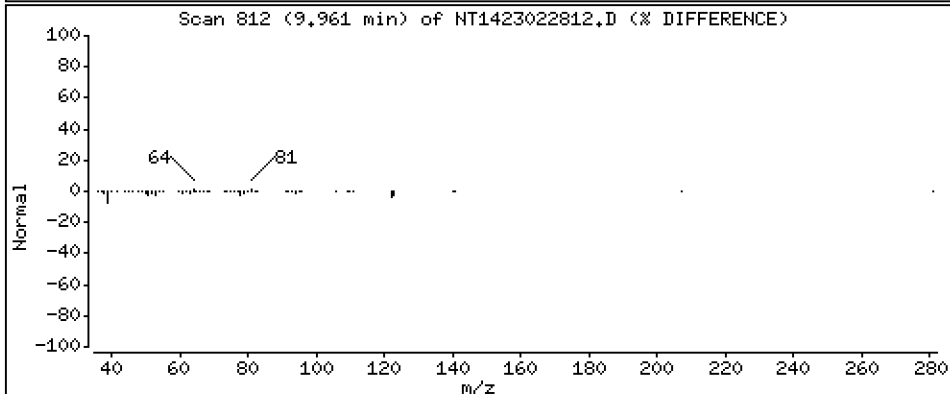
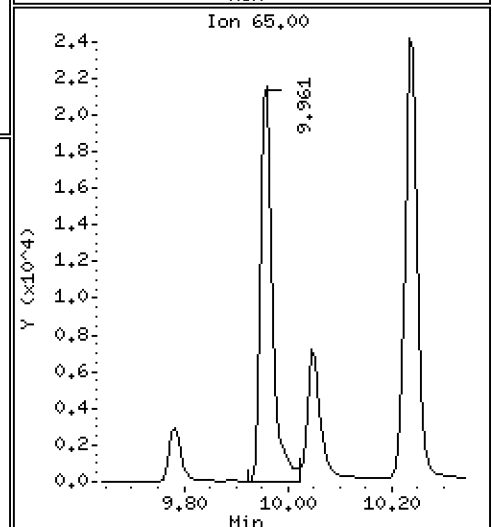
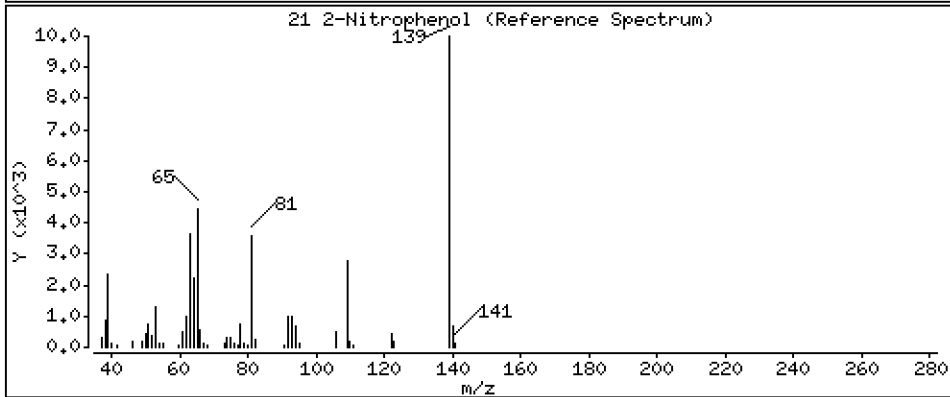
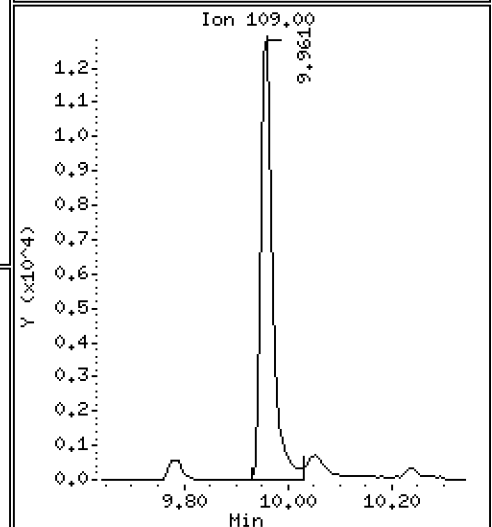
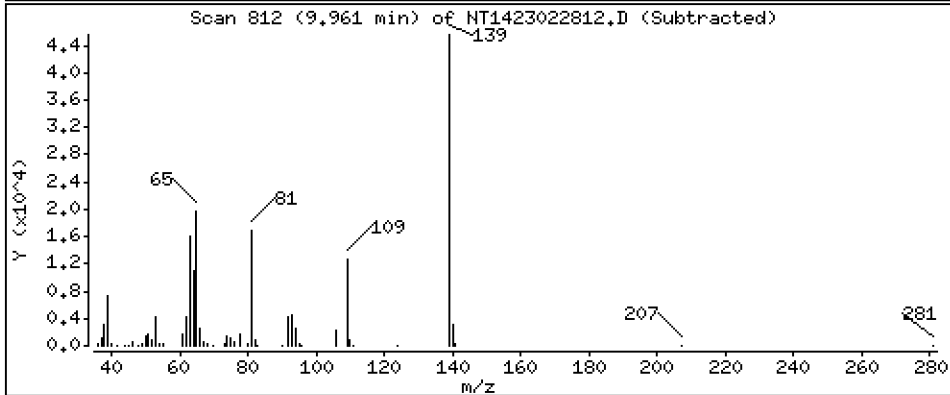
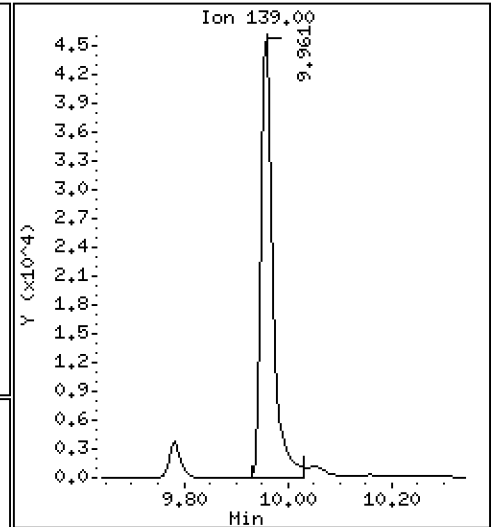
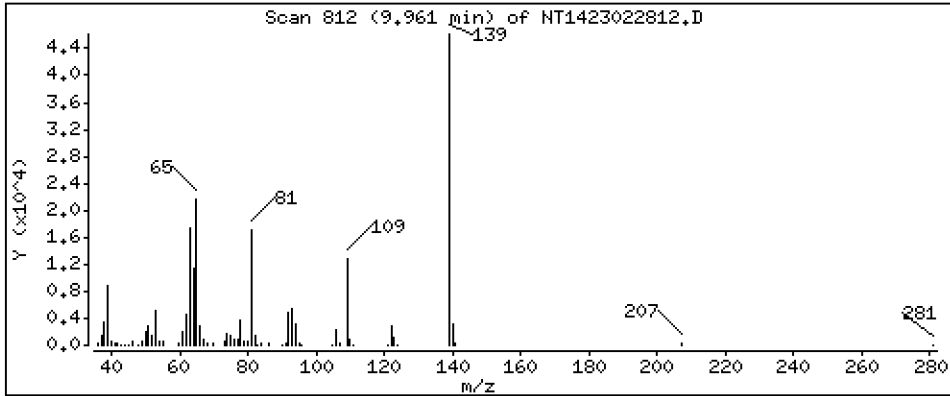
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

21 2-Nitrophenol

Concentration: 4,126 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

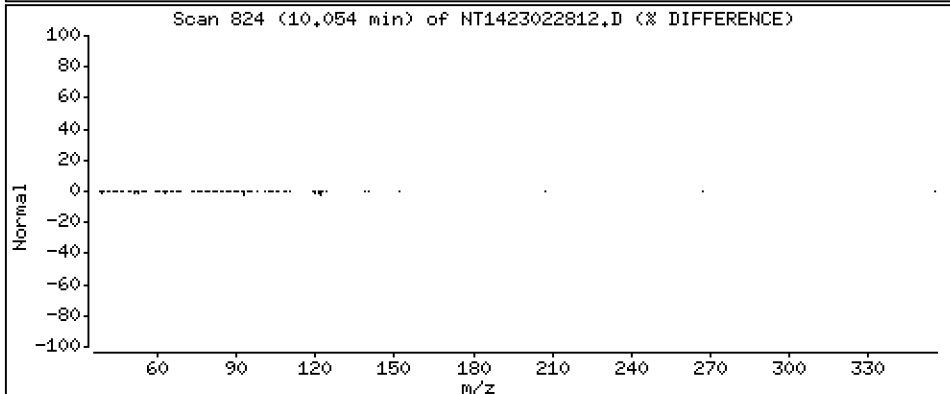
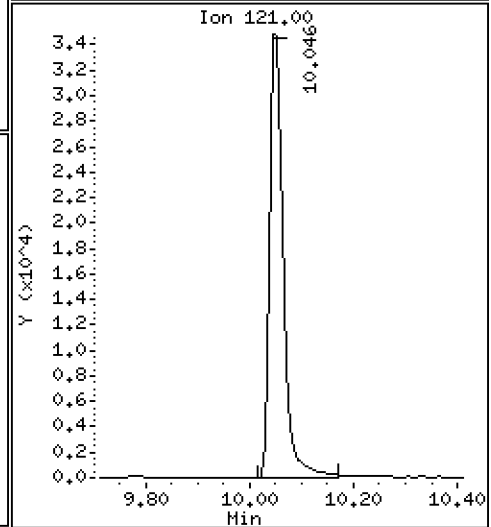
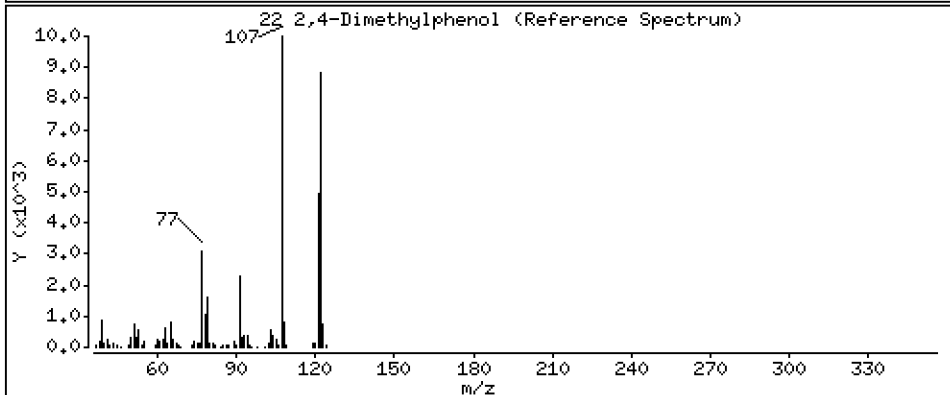
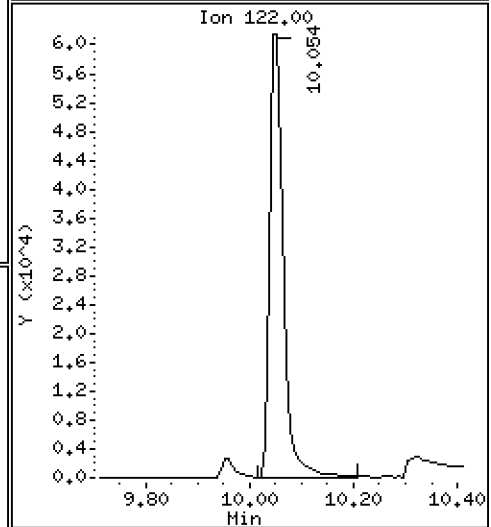
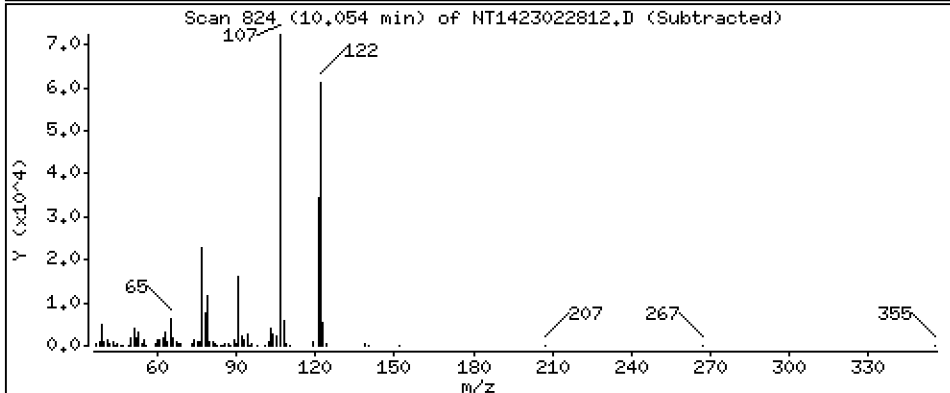
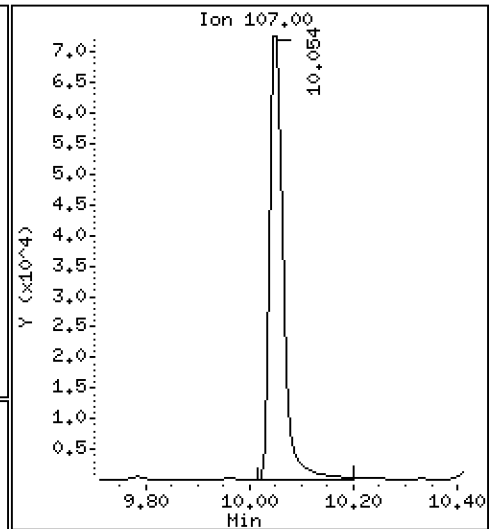
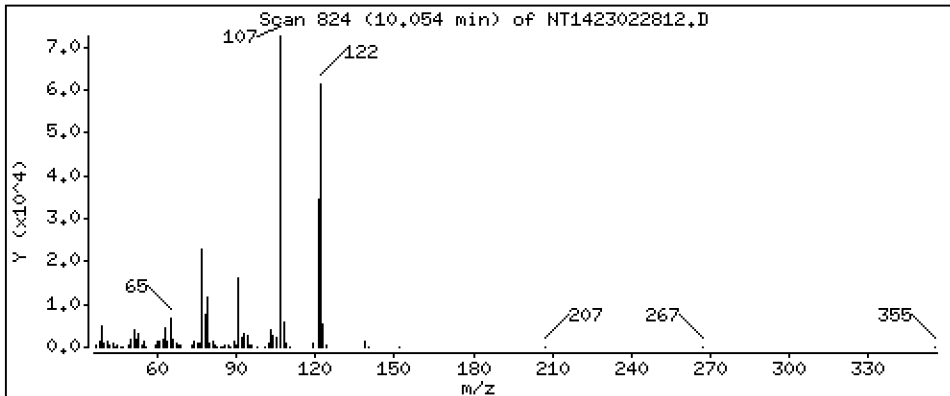
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 3,890 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

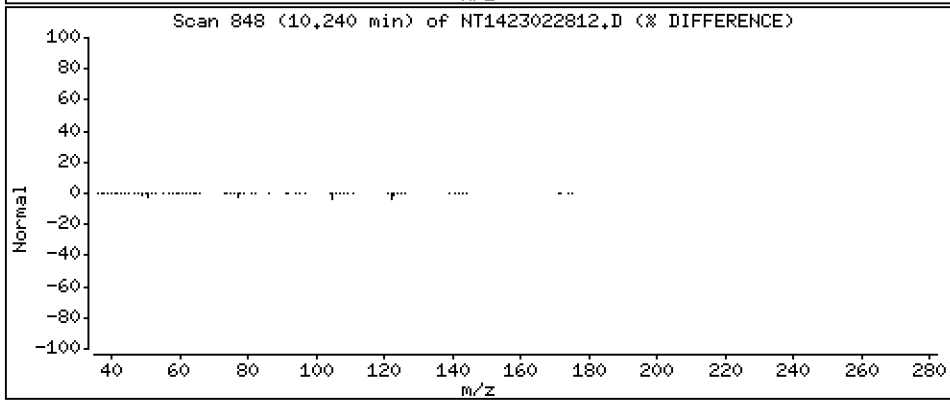
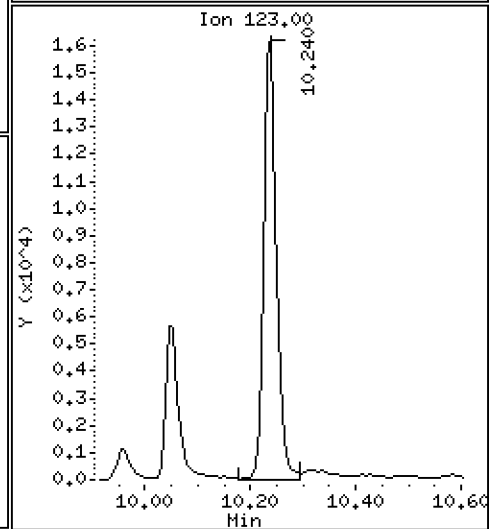
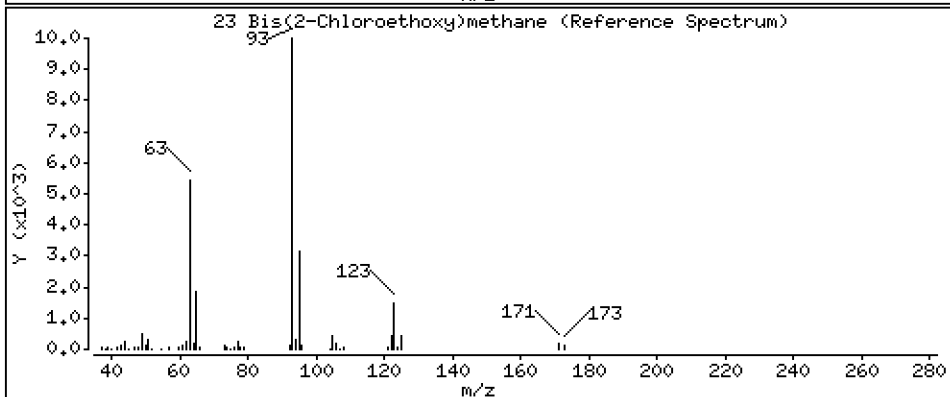
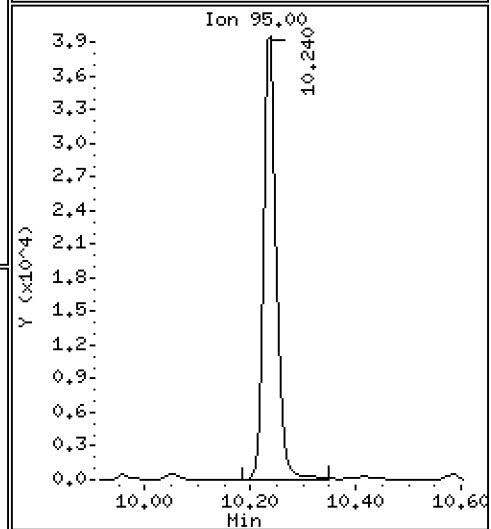
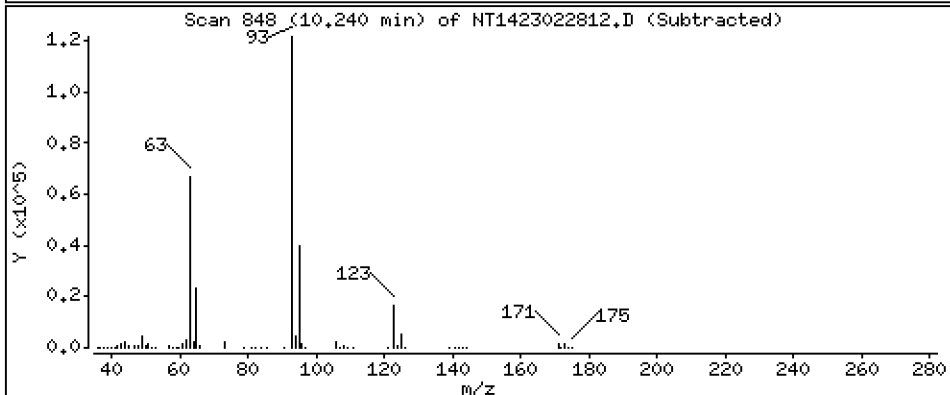
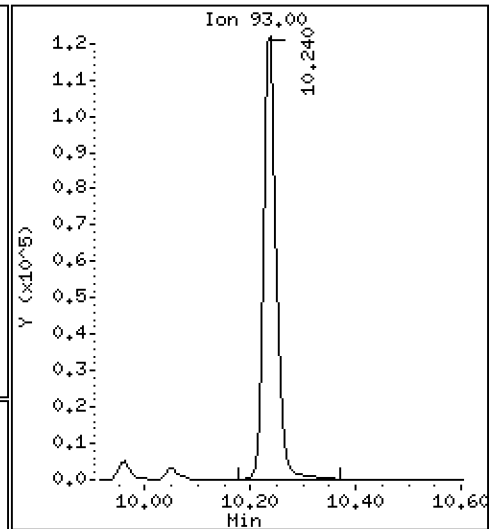
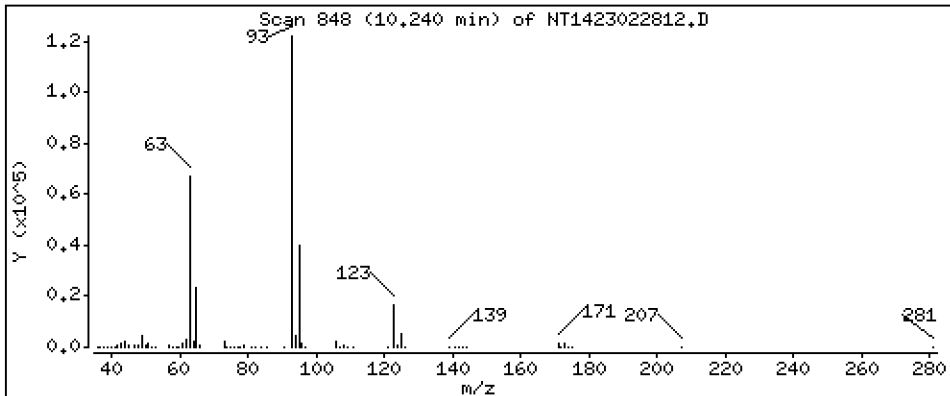
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

23 Bis(2-Chloroethoxy)methane

Concentration: 5.764 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

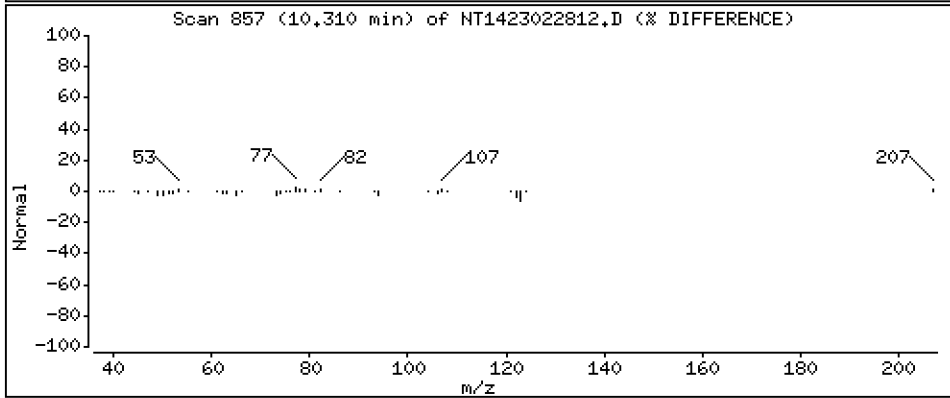
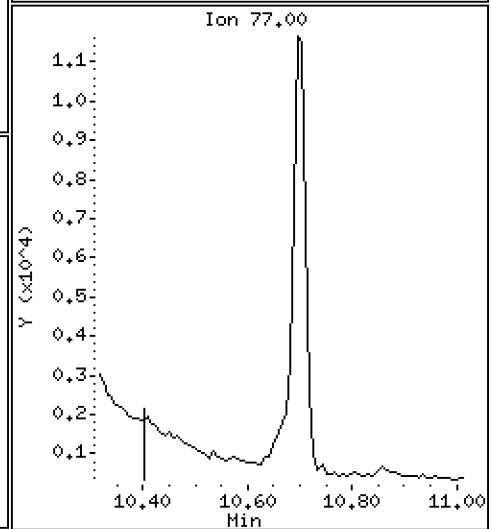
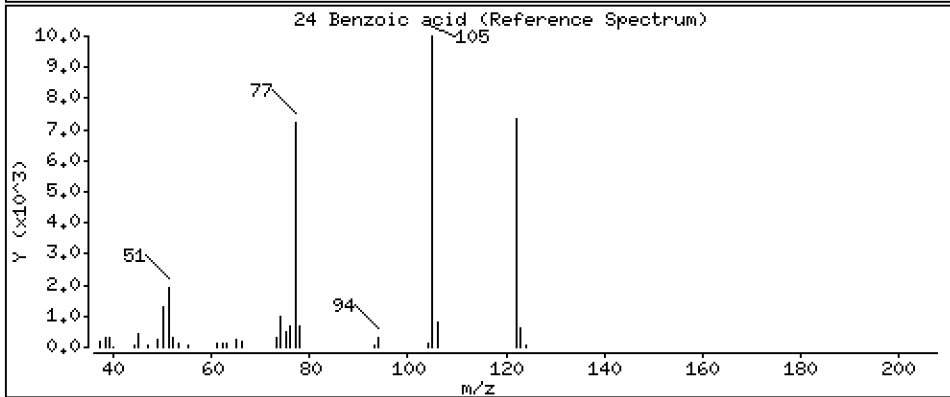
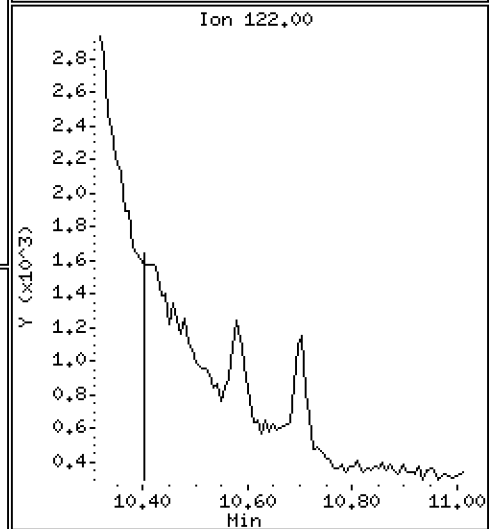
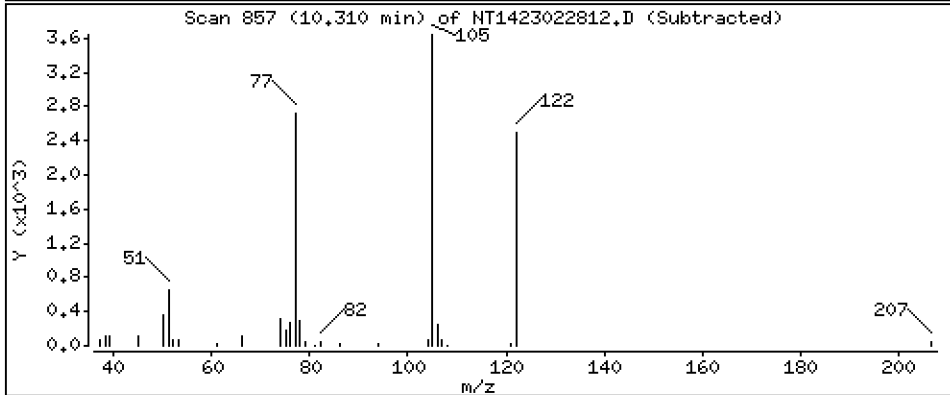
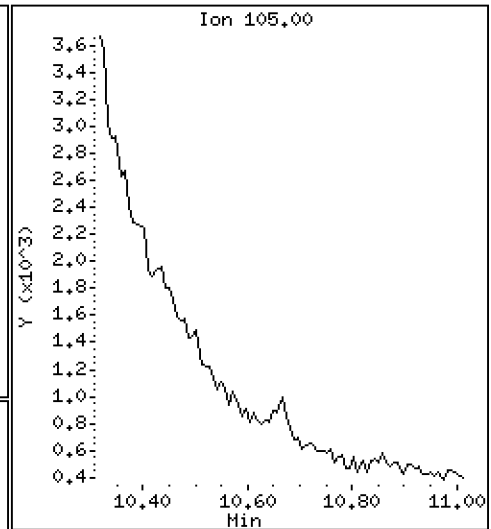
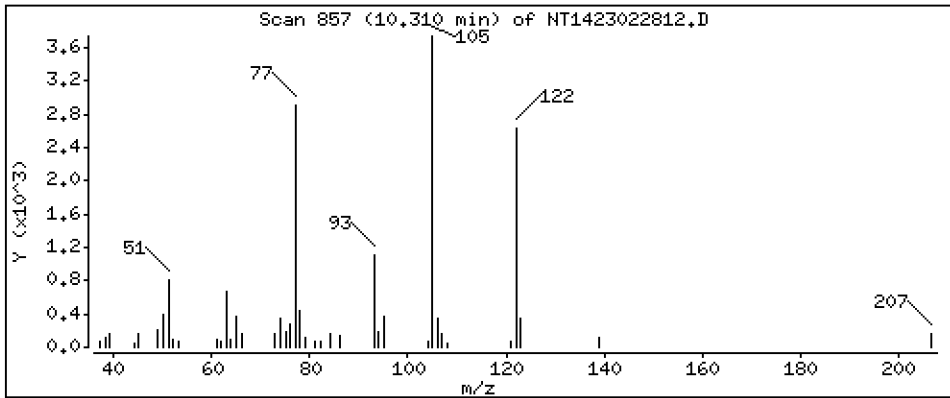
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

24 Benzoic acid

Concentration: 4.071 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

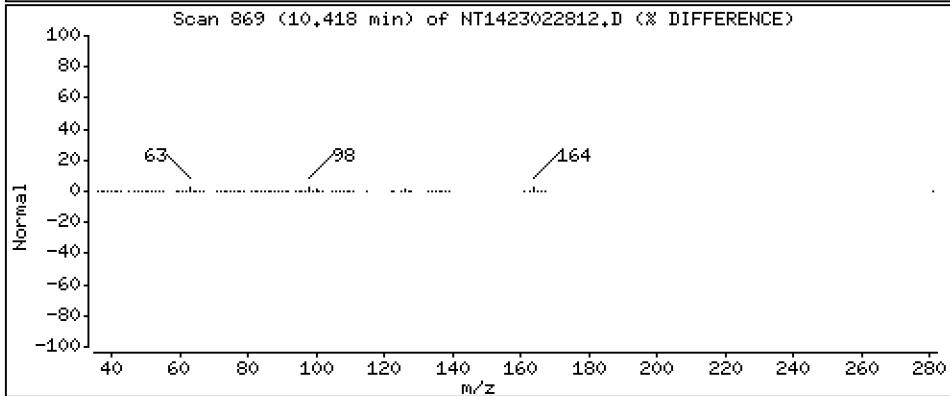
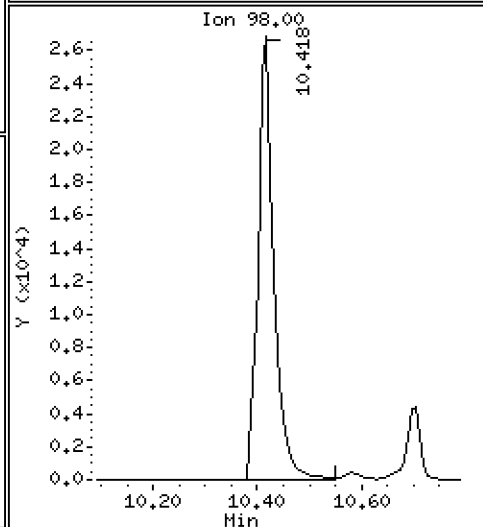
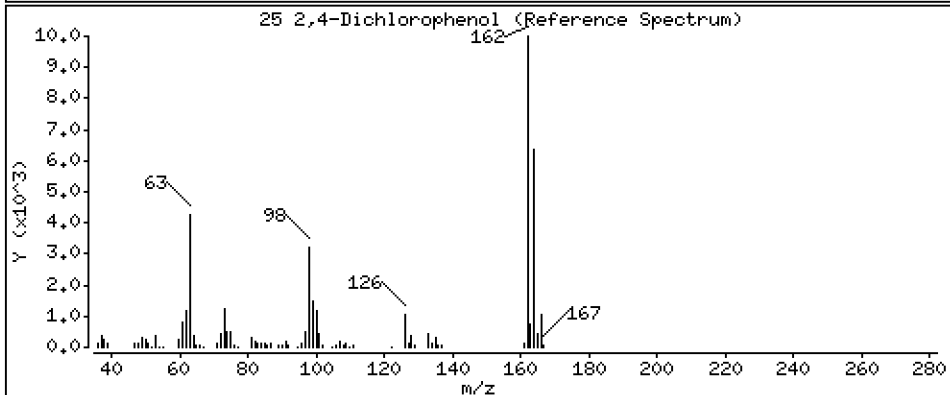
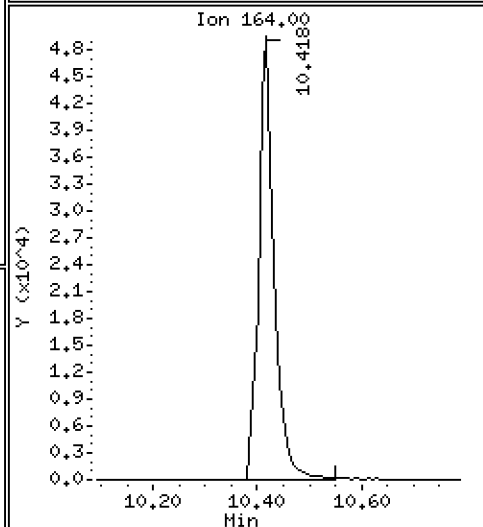
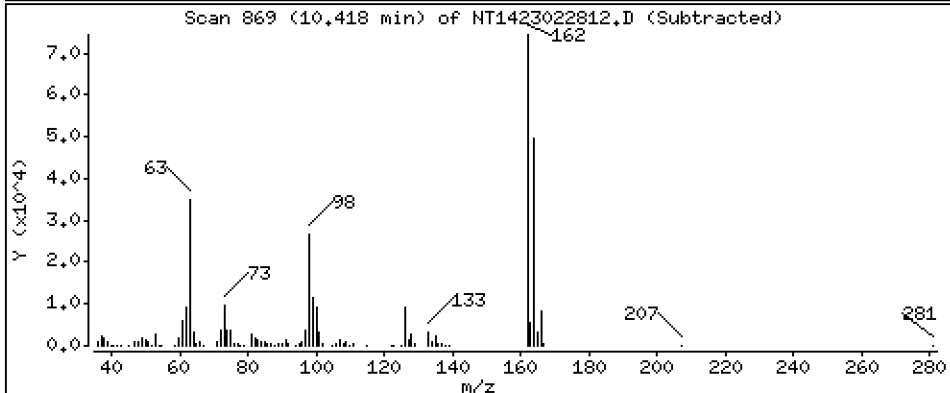
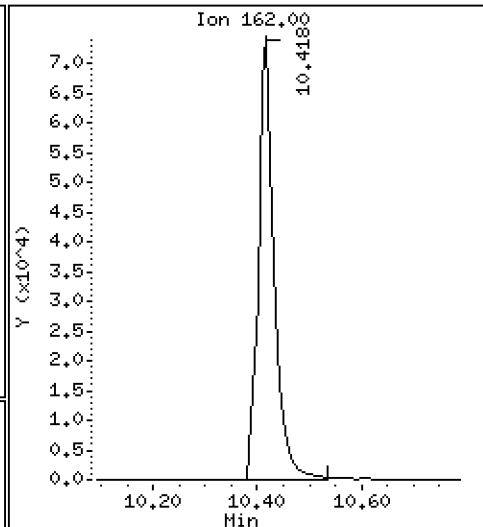
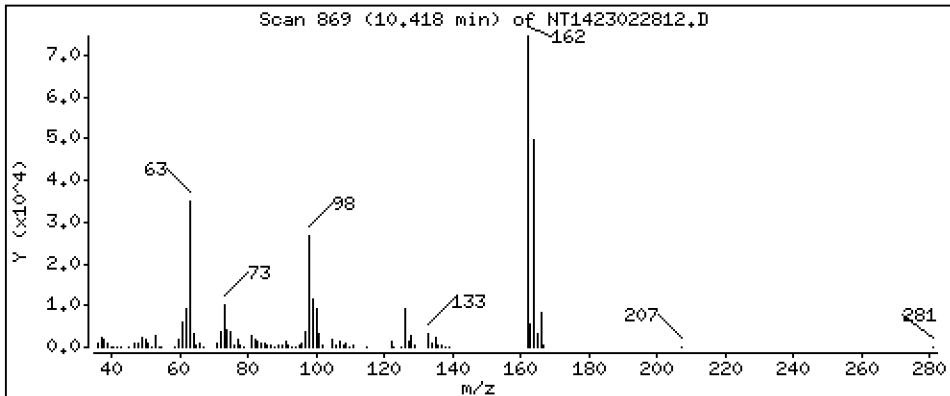
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 4,783 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

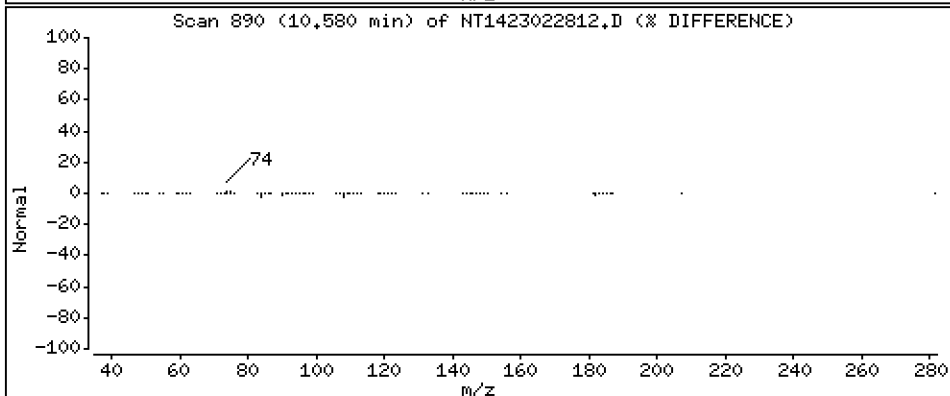
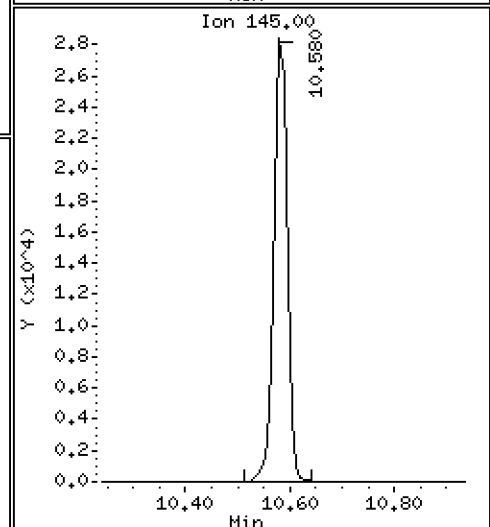
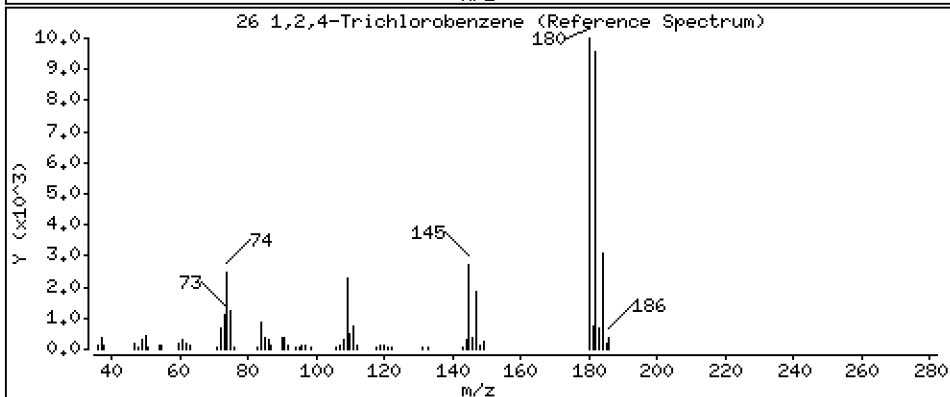
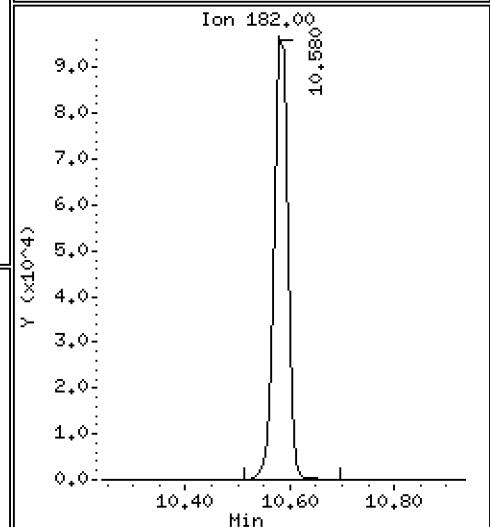
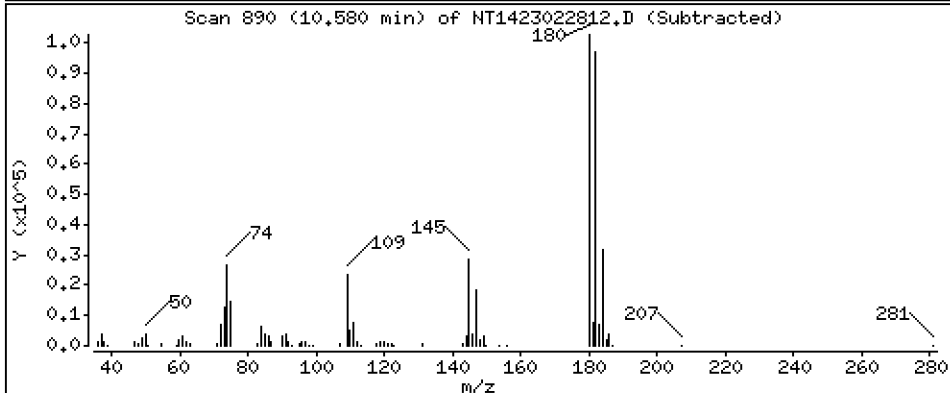
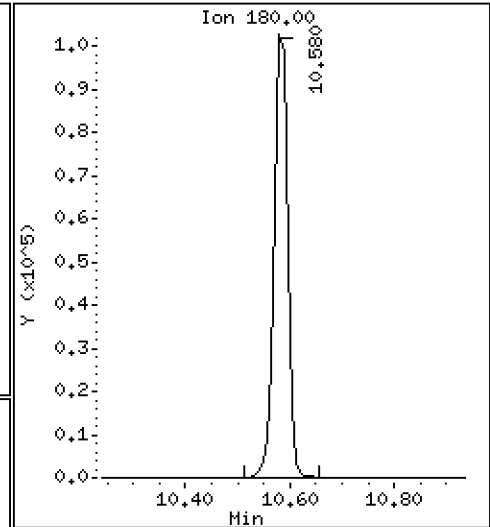
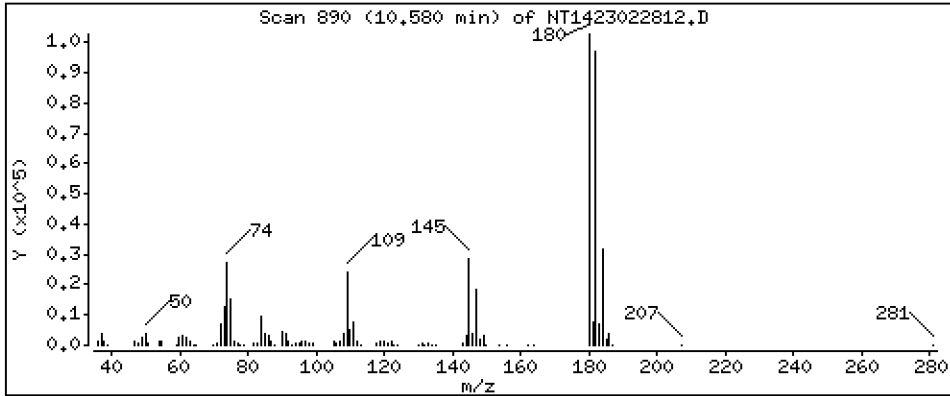
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 4,789 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

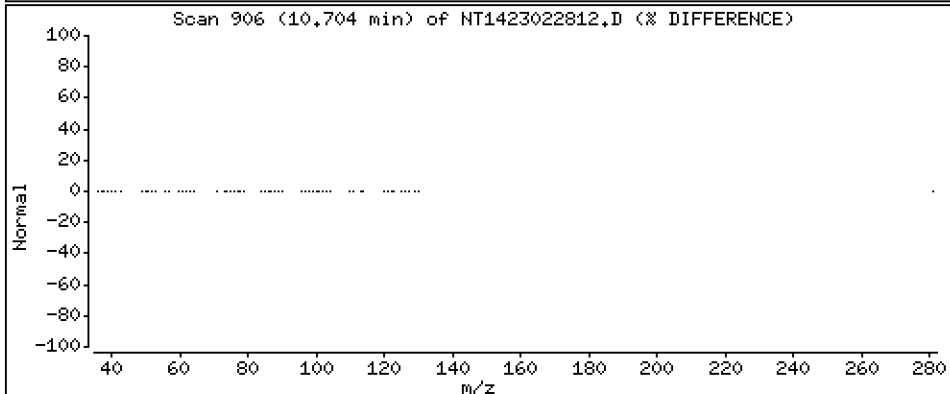
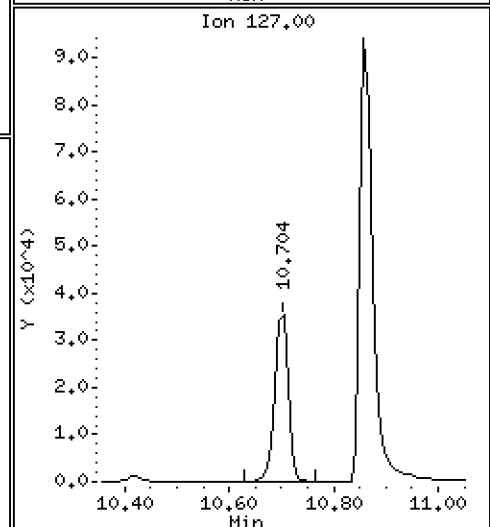
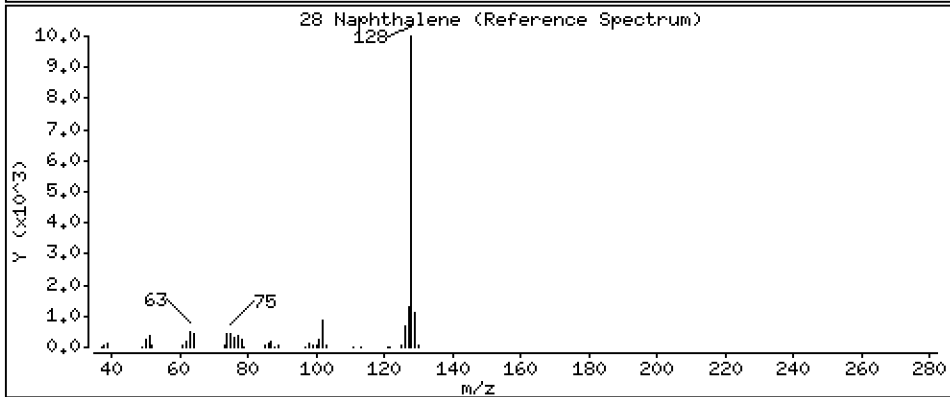
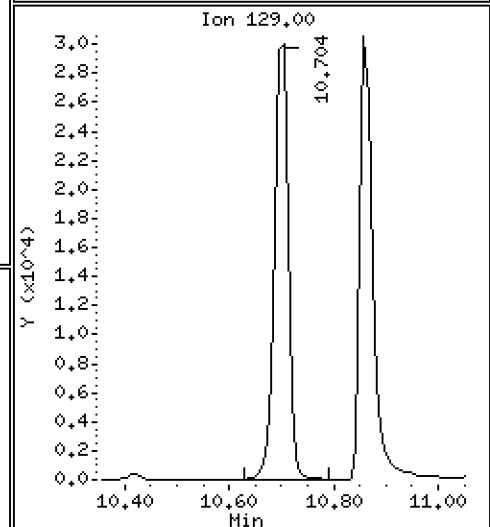
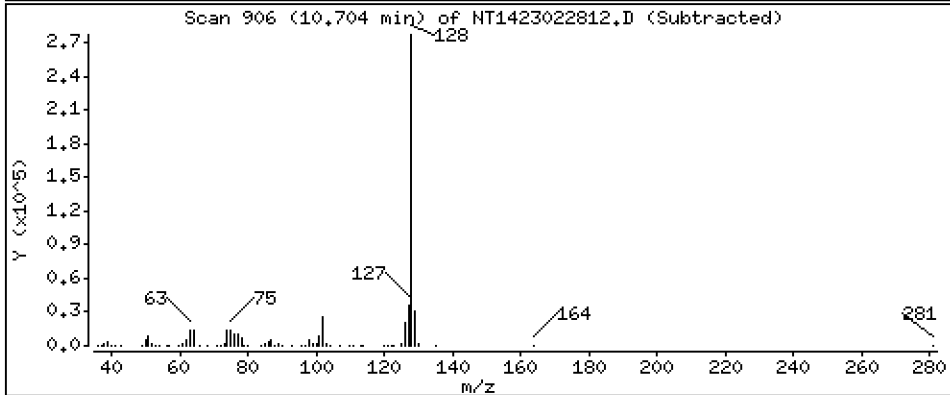
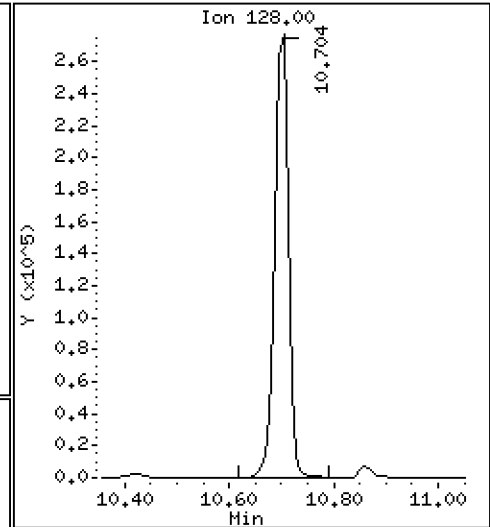
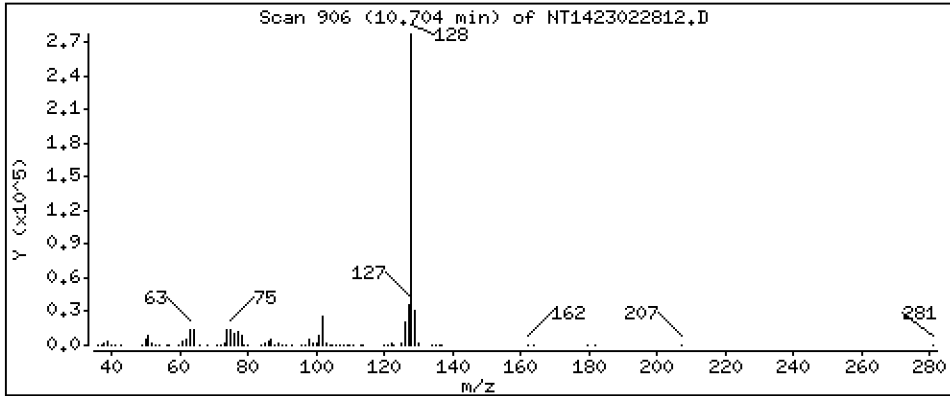
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 4,766 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

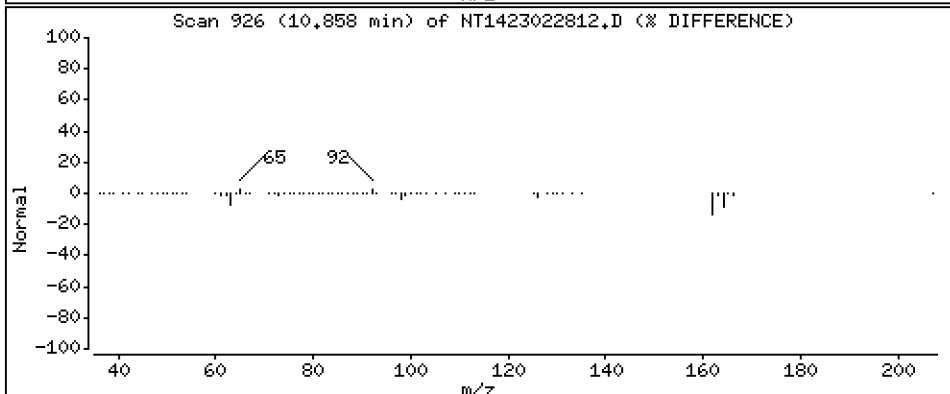
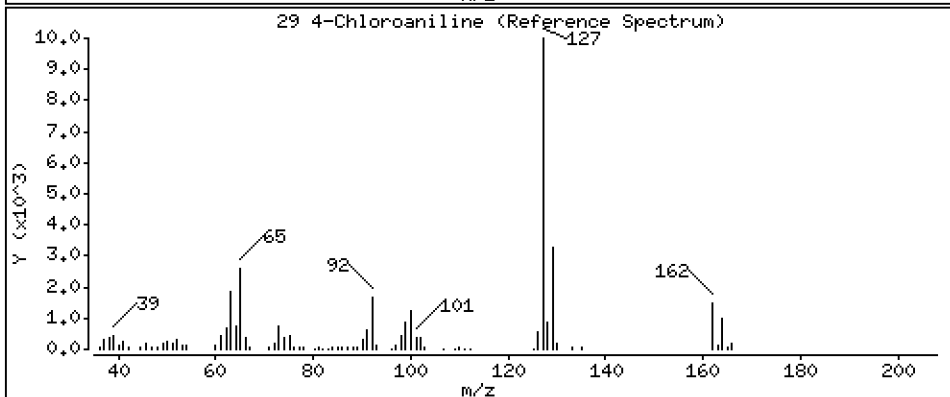
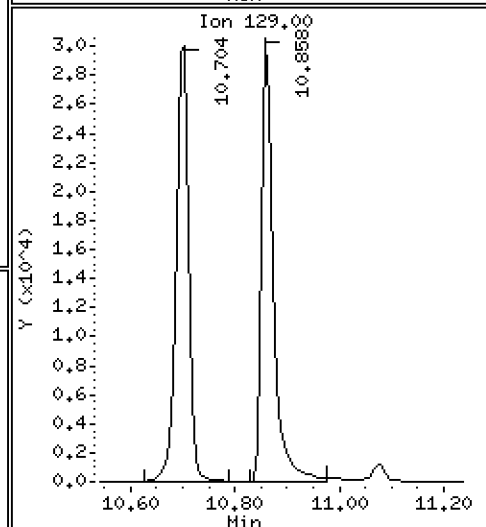
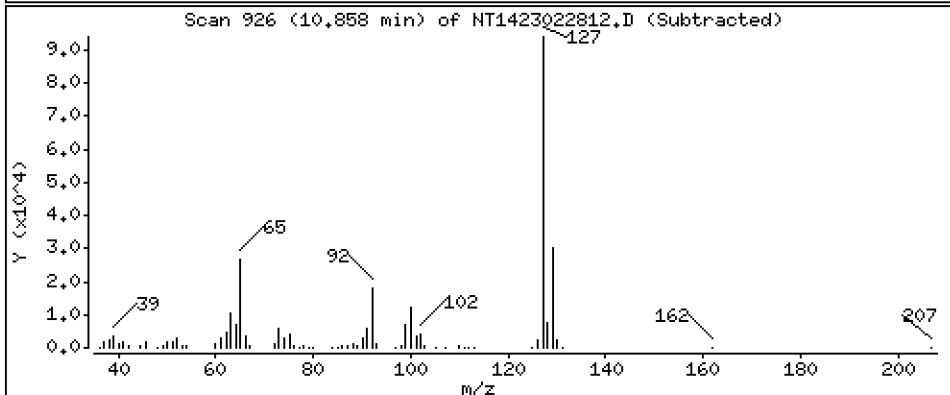
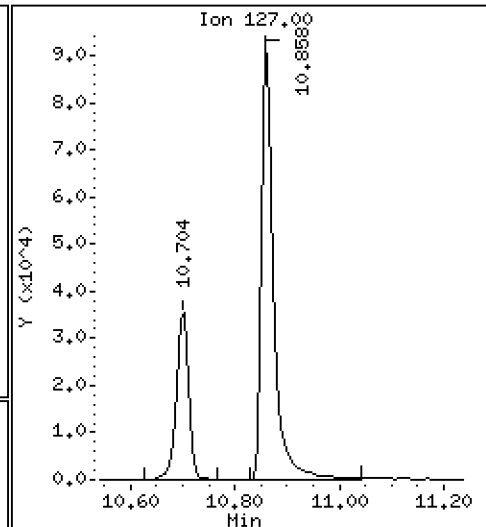
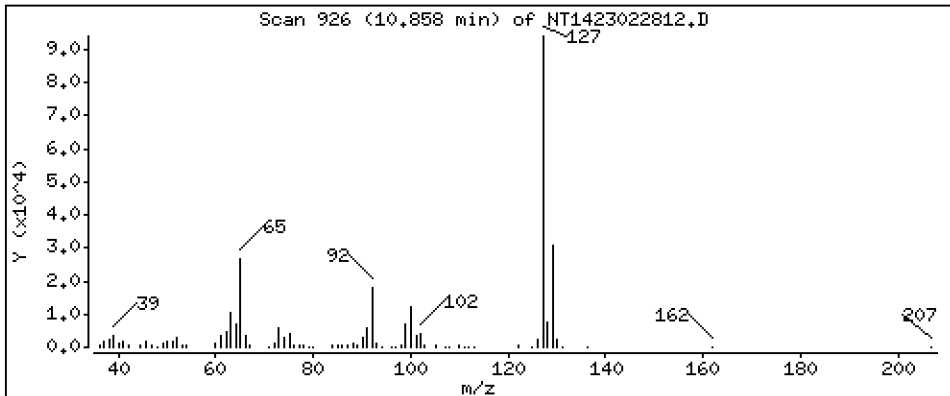
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

29 4-Chloroaniline

Concentration: 3,895 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

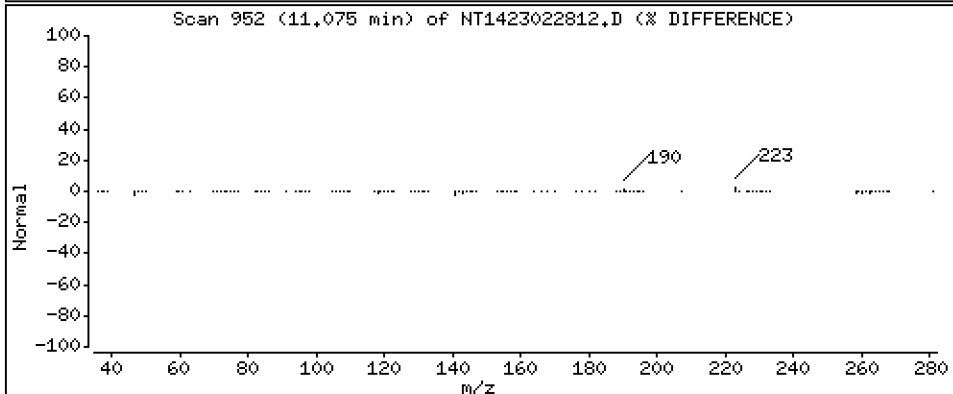
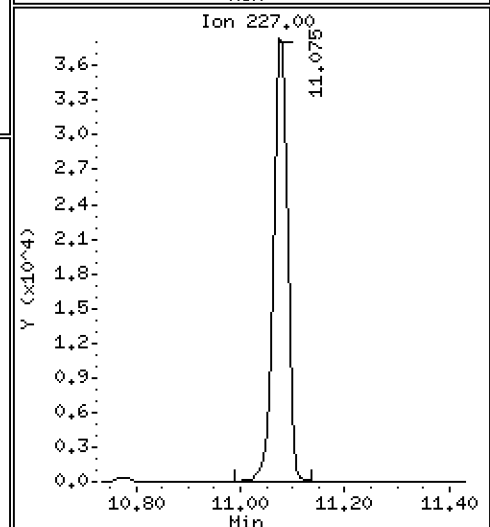
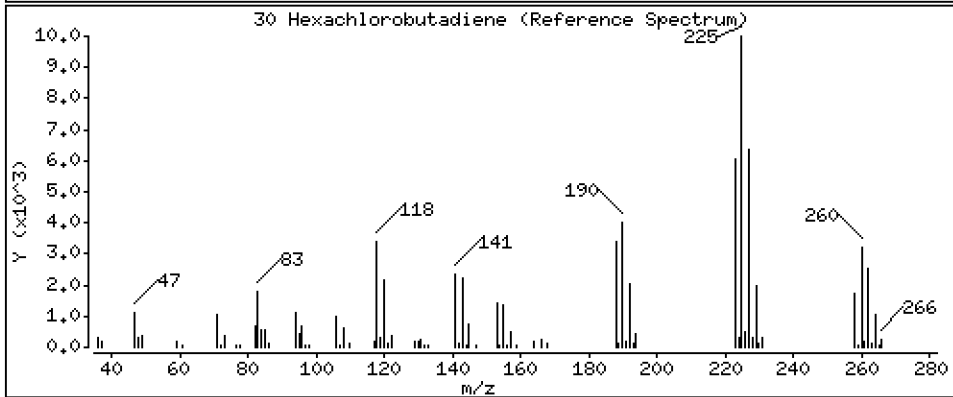
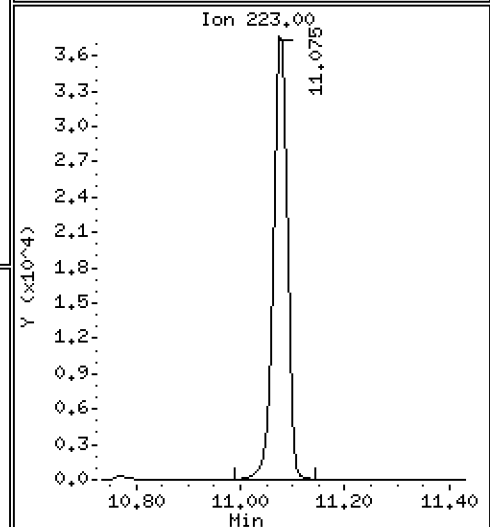
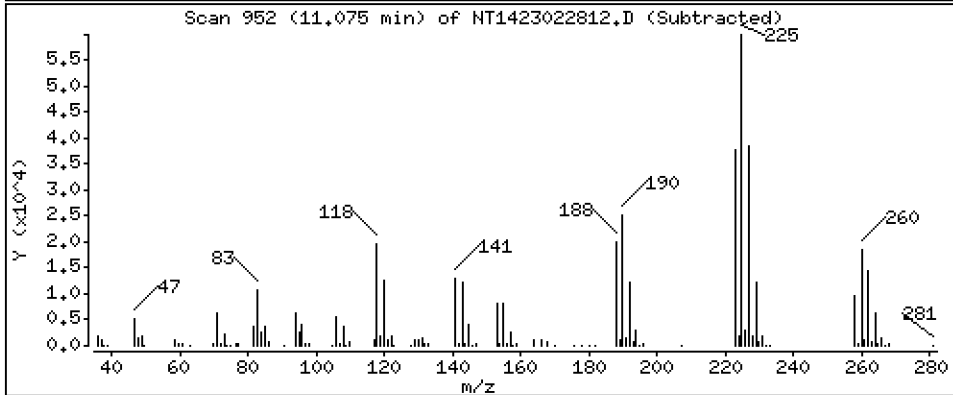
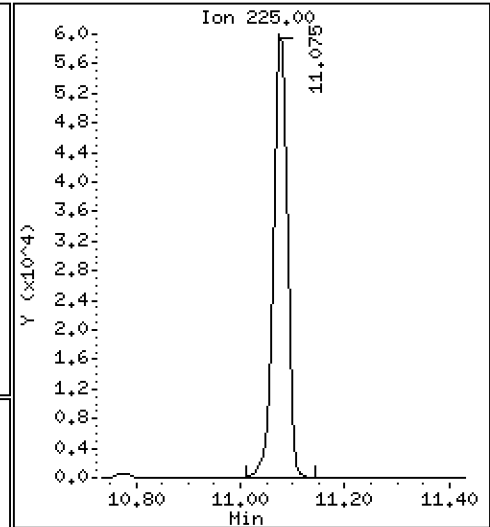
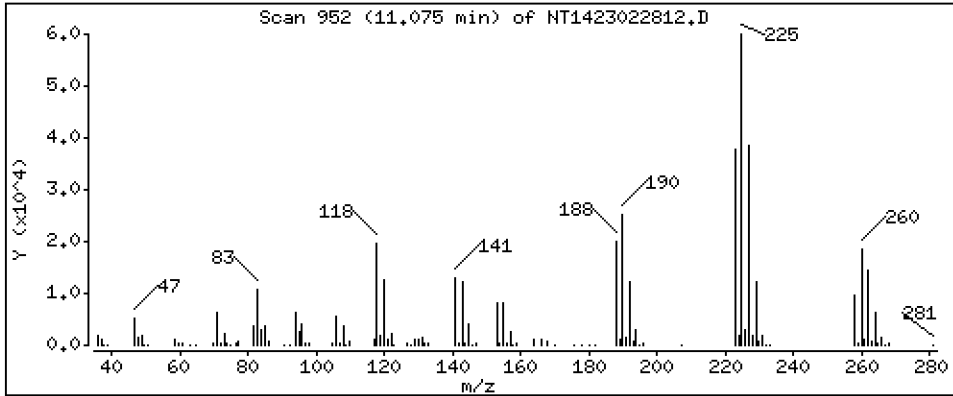
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 4,803 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

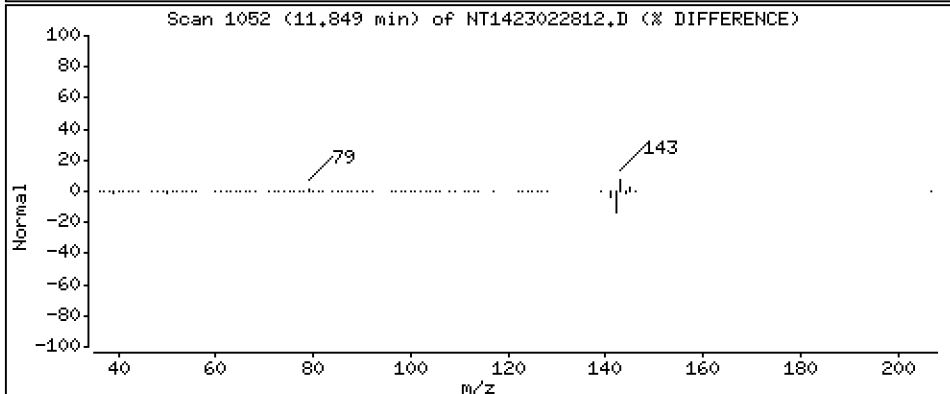
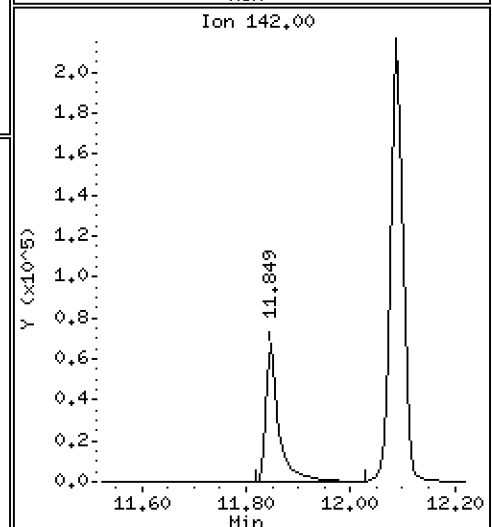
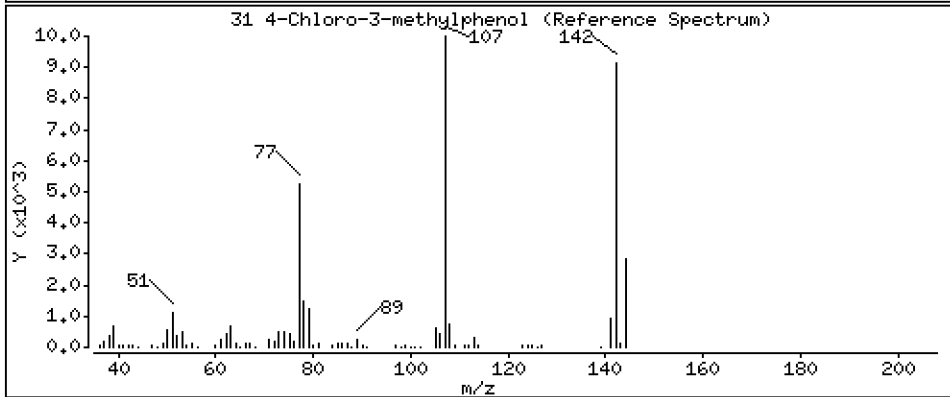
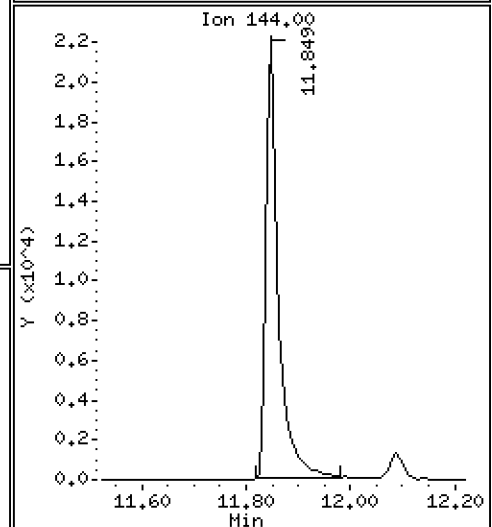
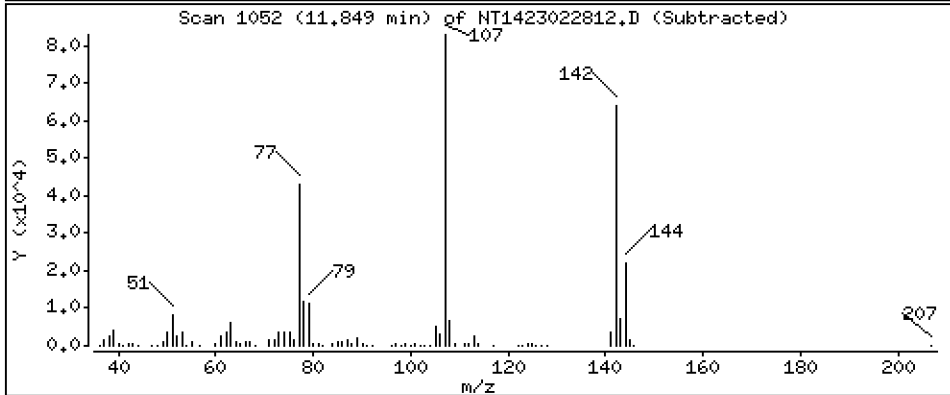
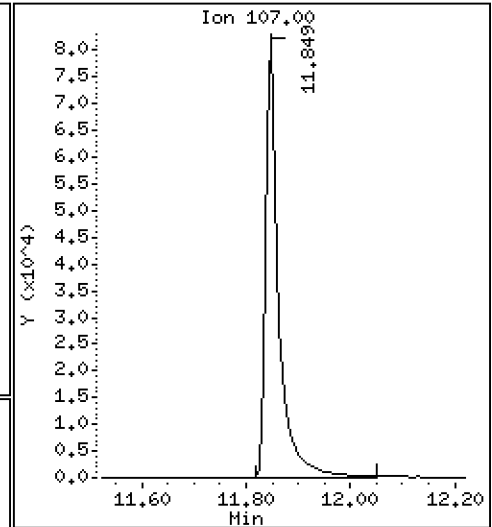
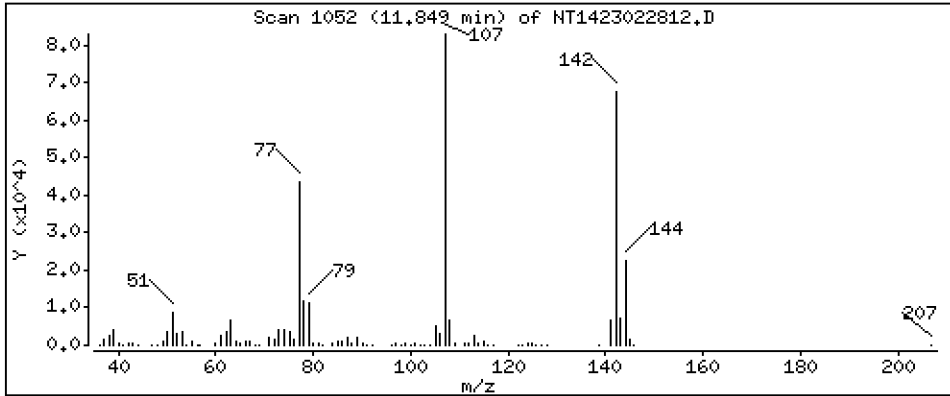
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

31 4-Chloro-3-methylphenol

Concentration: 4.860 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

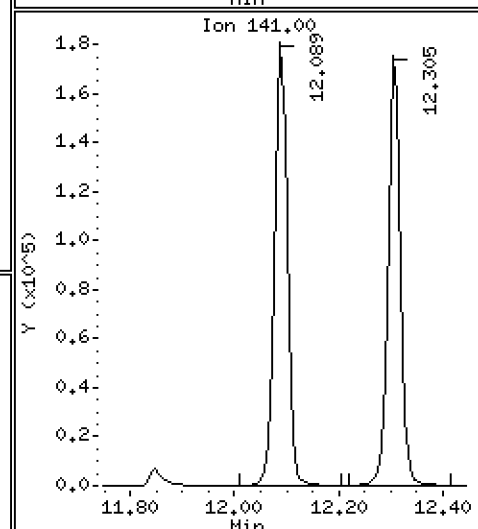
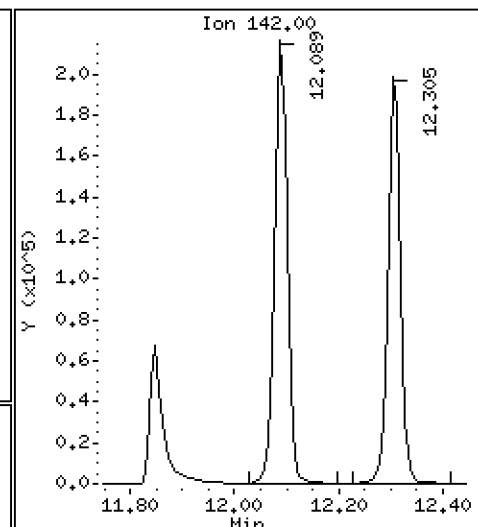
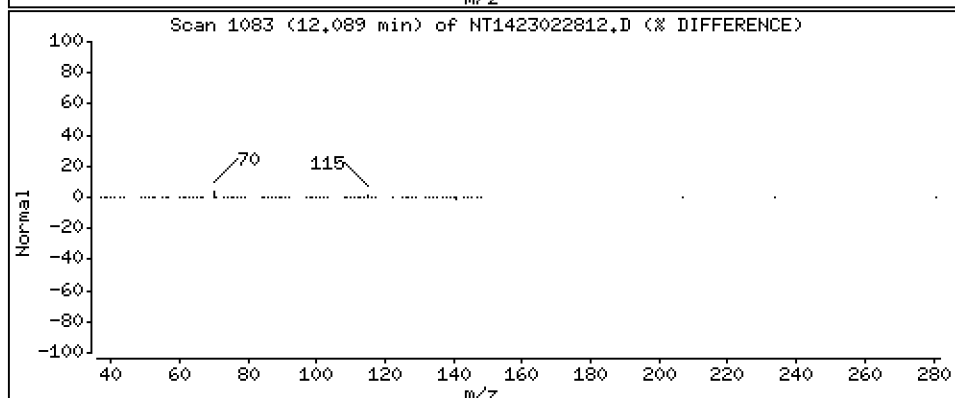
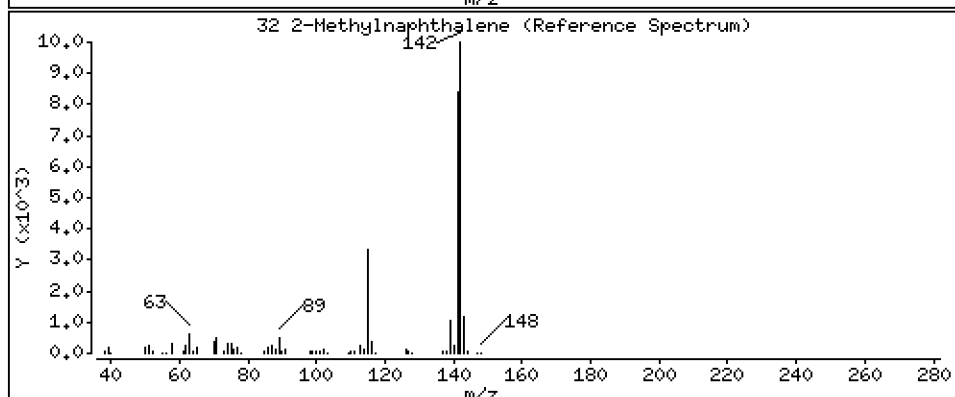
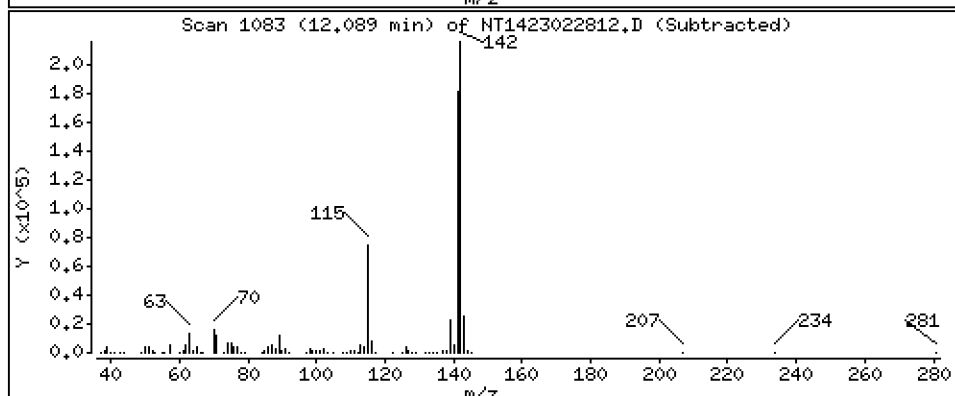
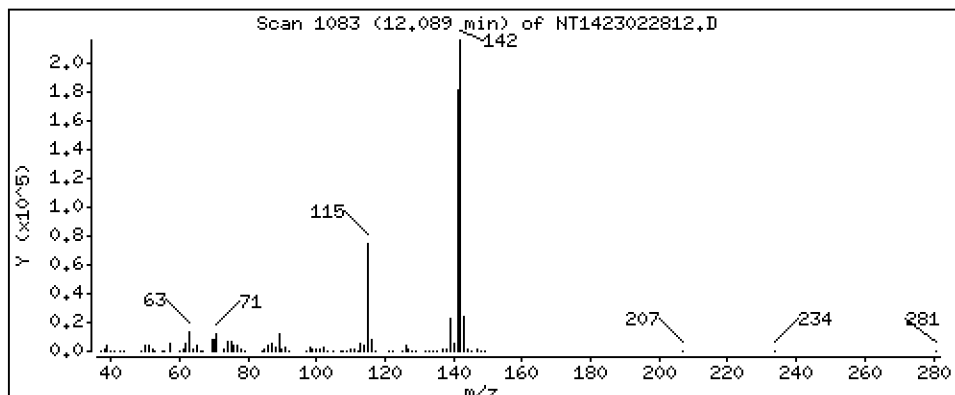
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 4,625 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

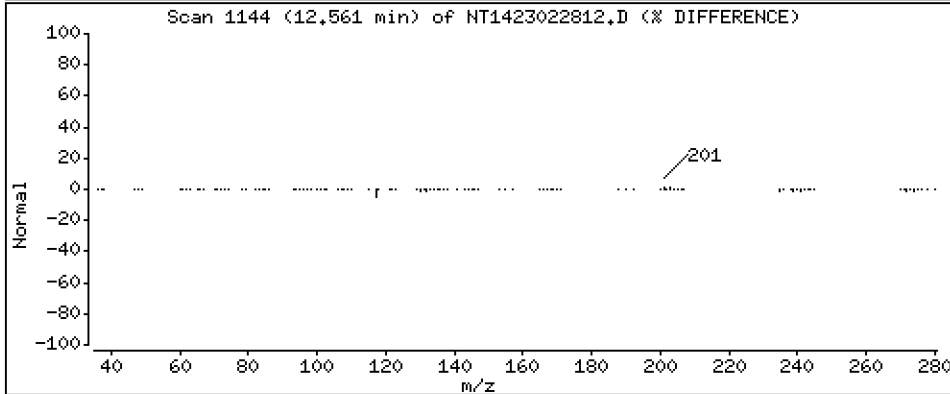
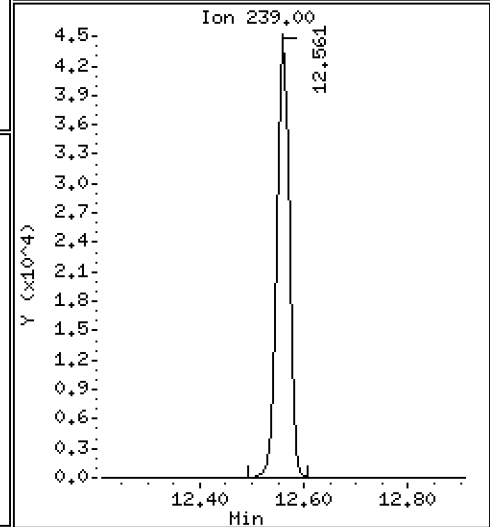
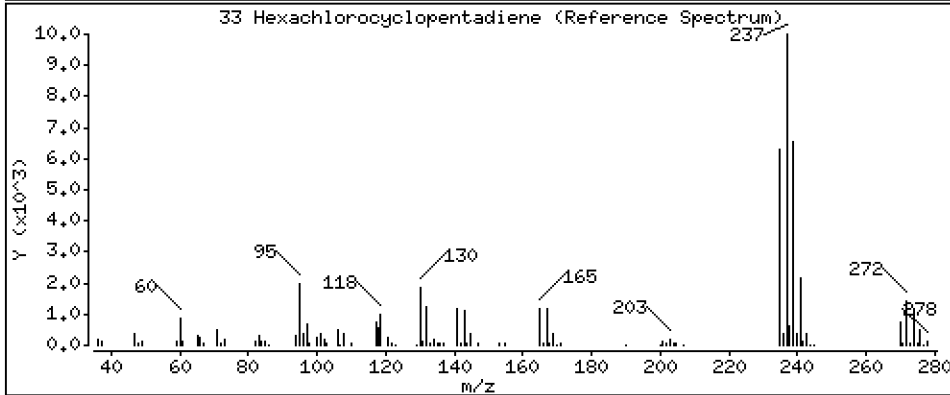
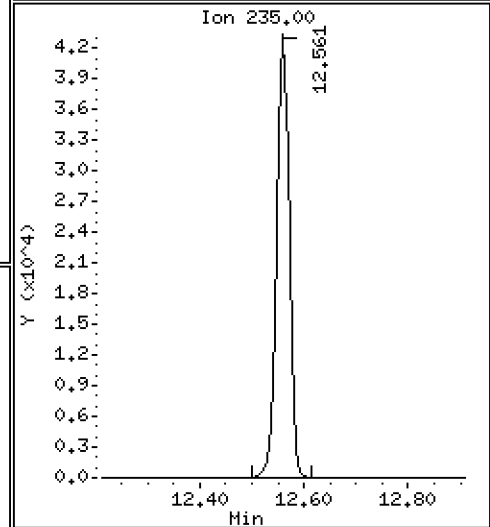
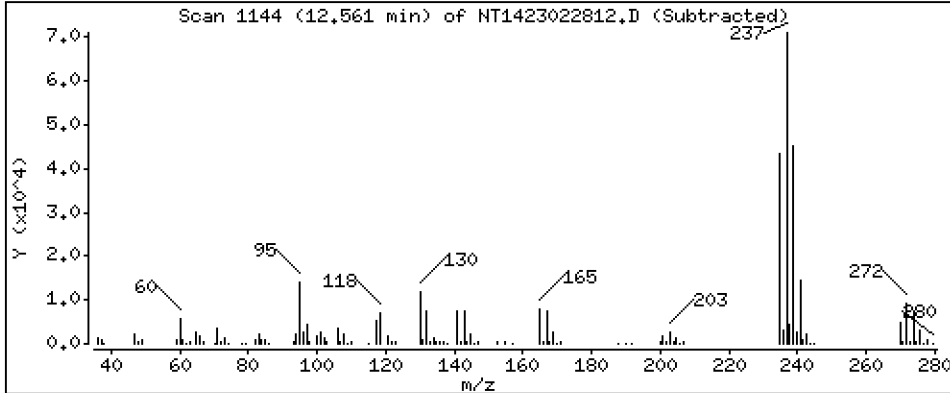
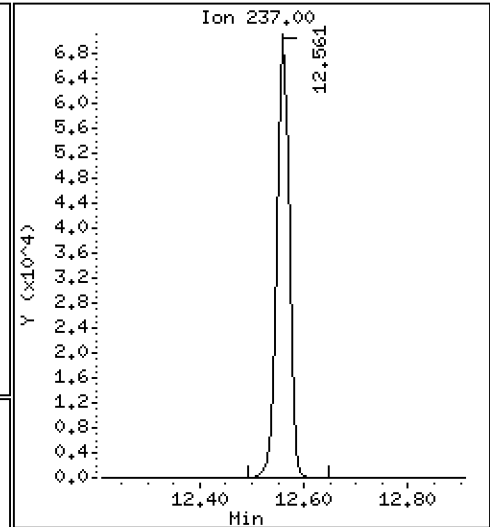
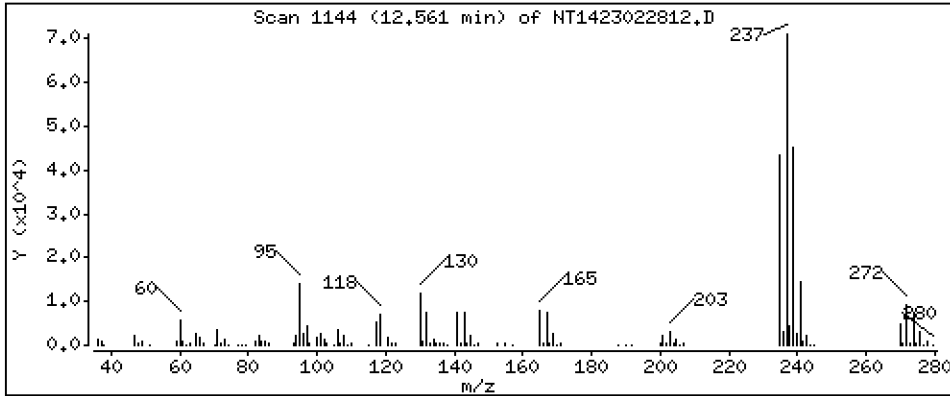
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

33 Hexachlorocyclopentadiene

Concentration: 4,533 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

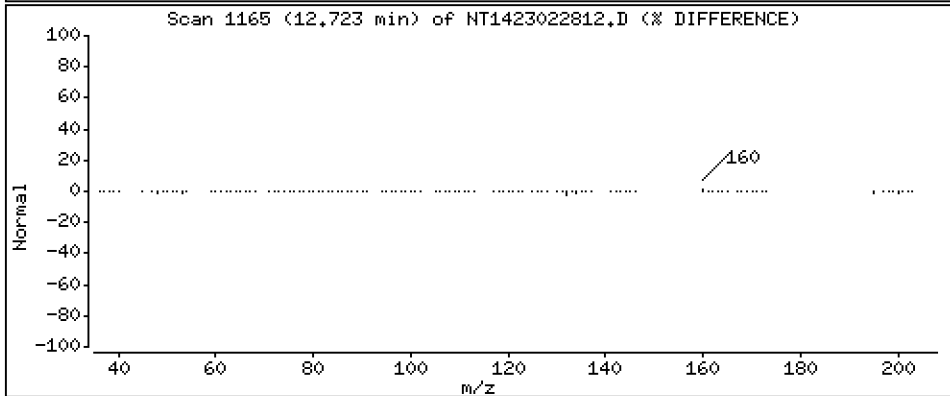
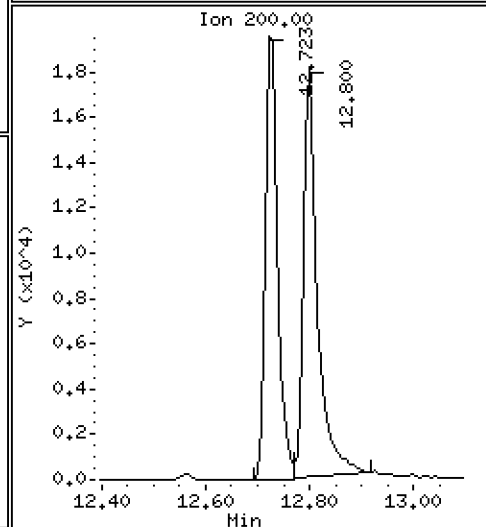
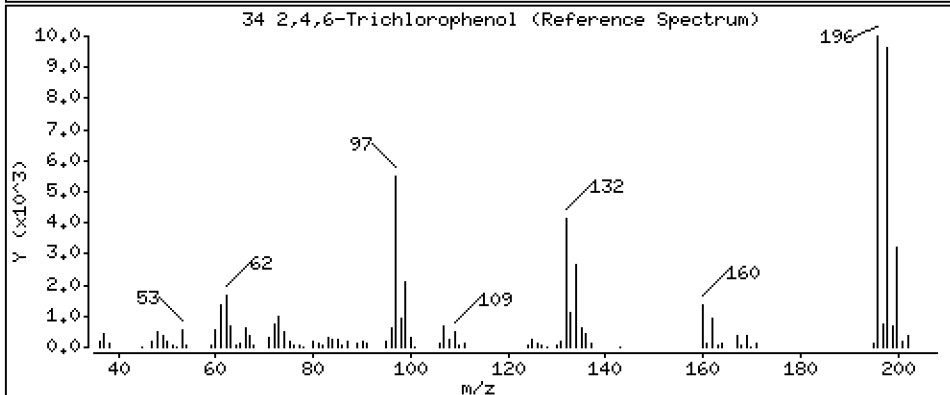
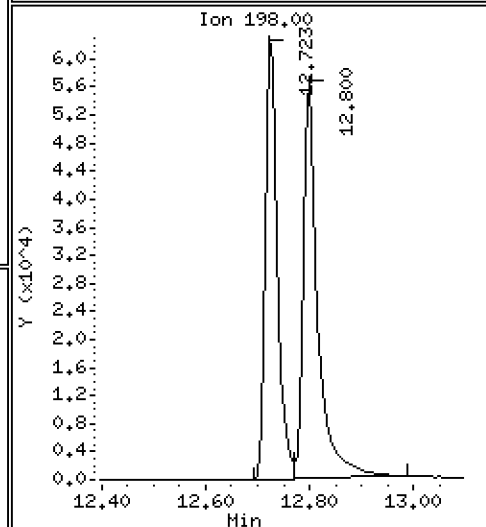
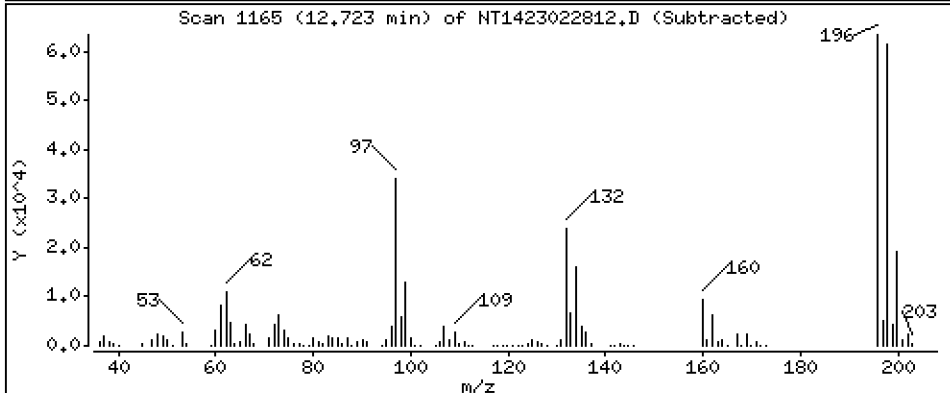
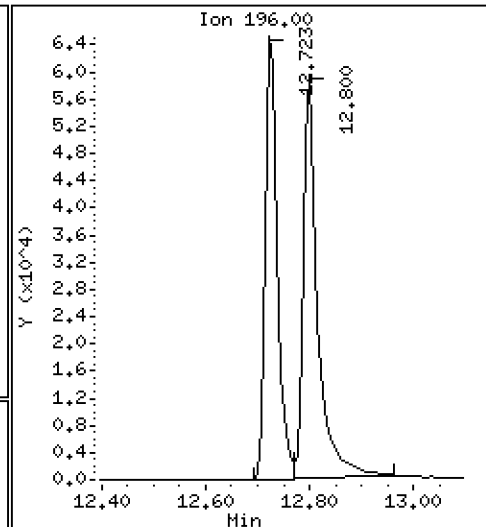
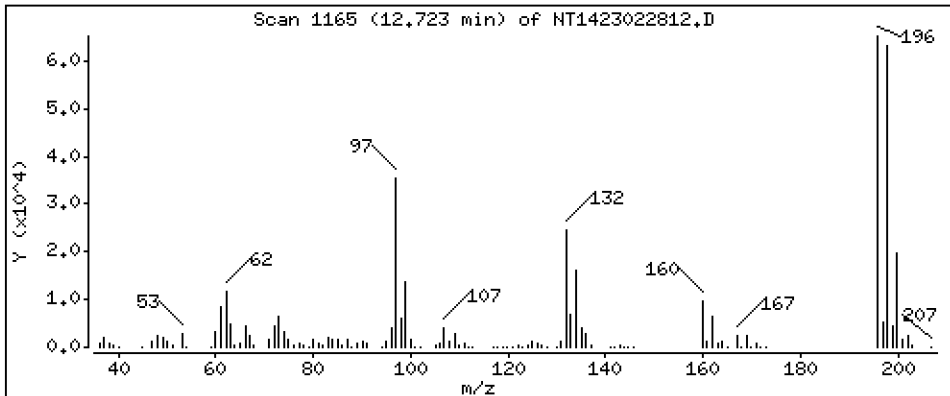
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

34 2,4,6-Trichlorophenol

Concentration: 4,788 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

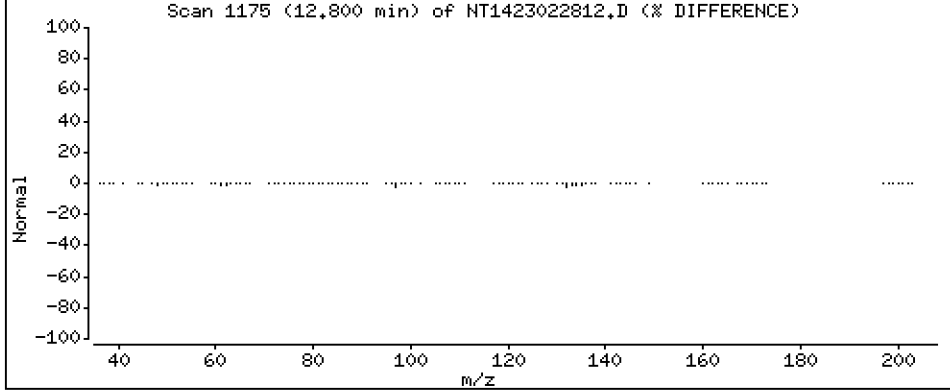
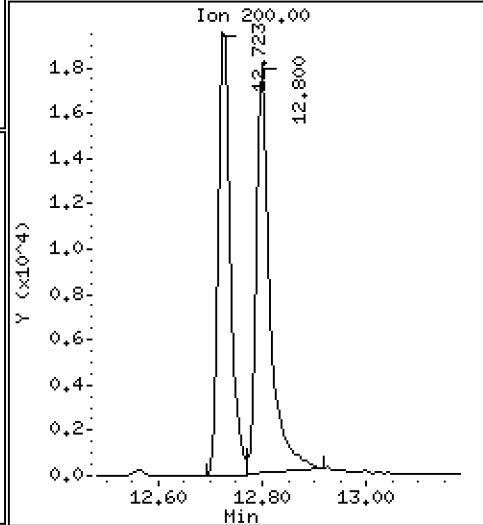
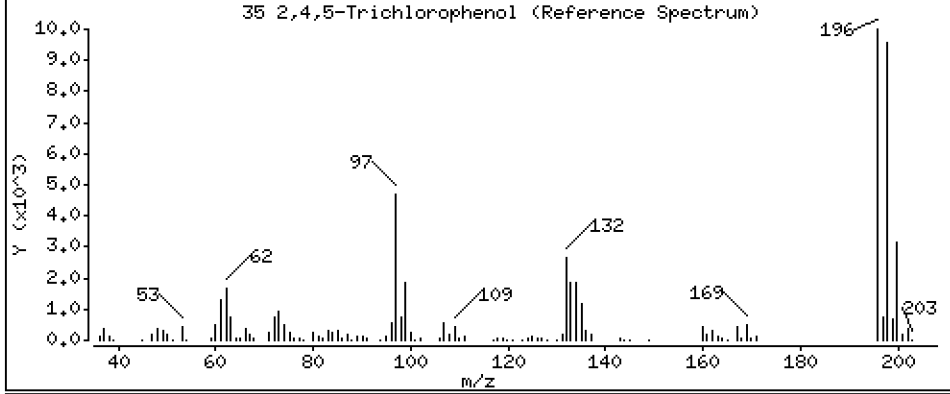
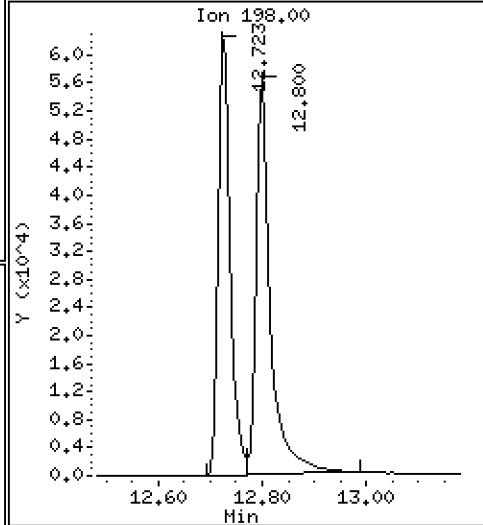
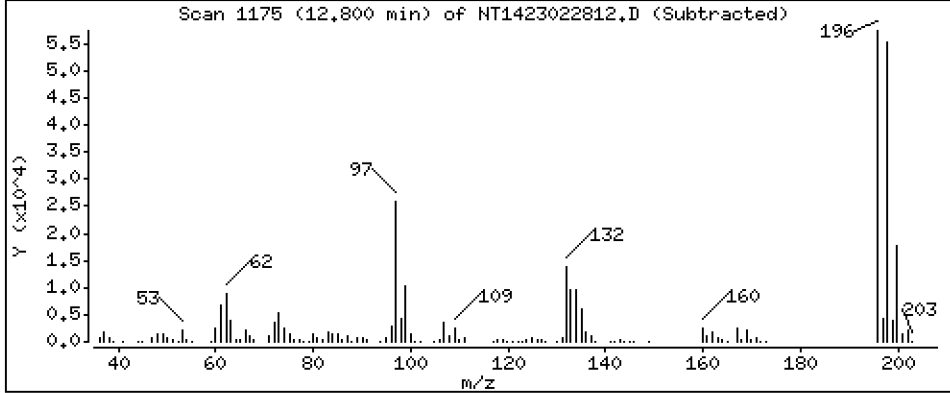
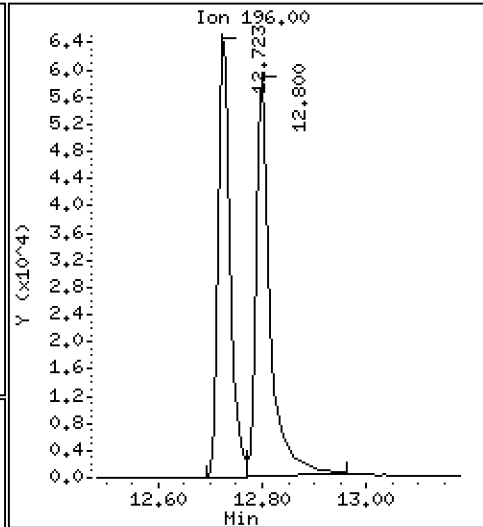
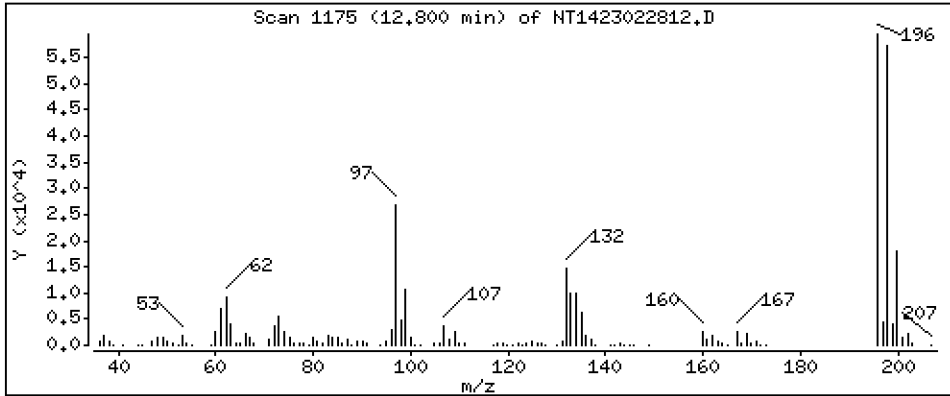
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

35 2,4,5-Trichlorophenol

Concentration: 4.669 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

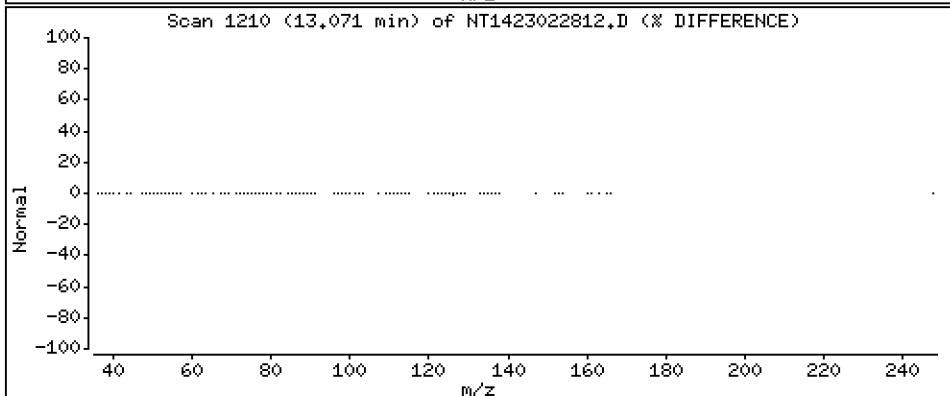
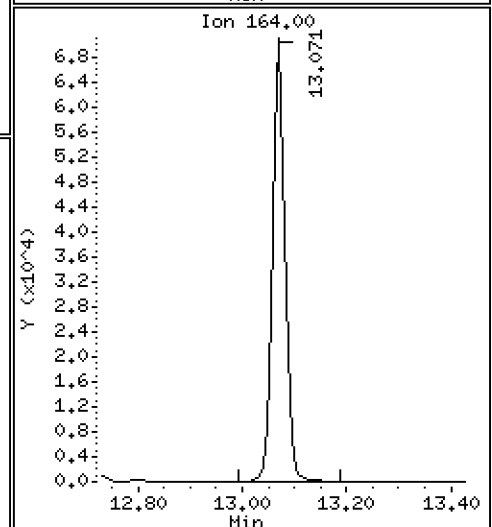
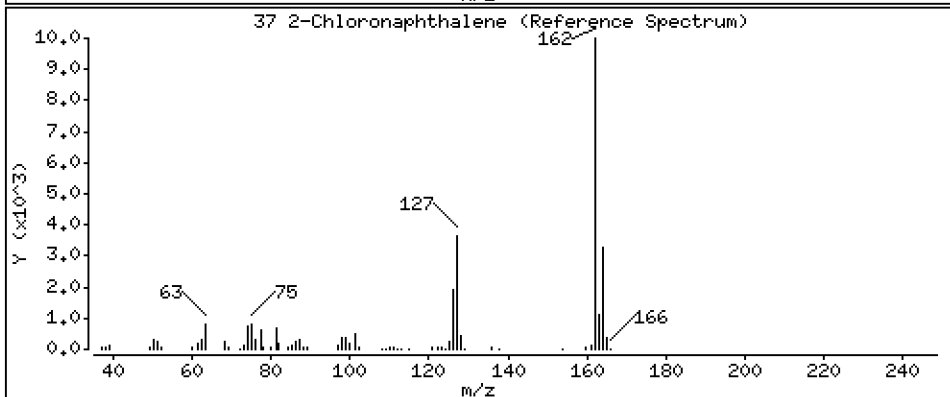
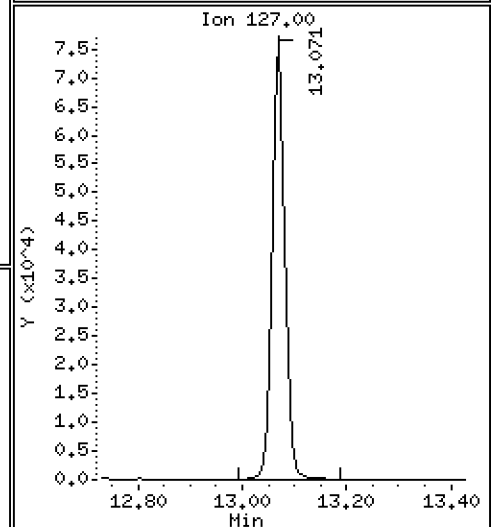
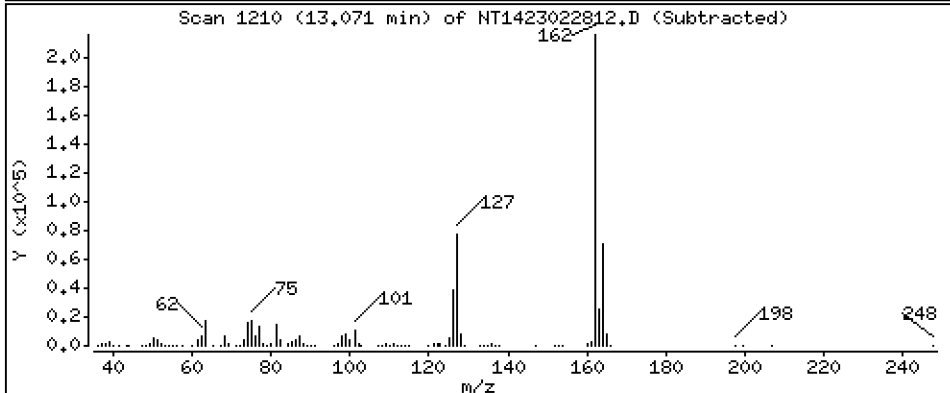
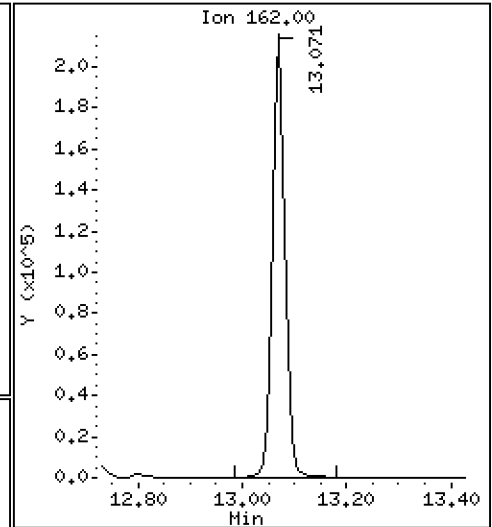
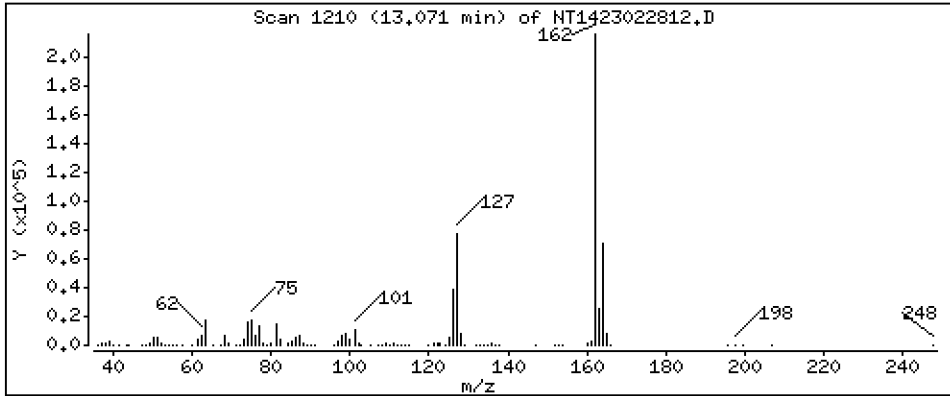
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

37 2-Chloronaphthalene

Concentration: 4,911 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

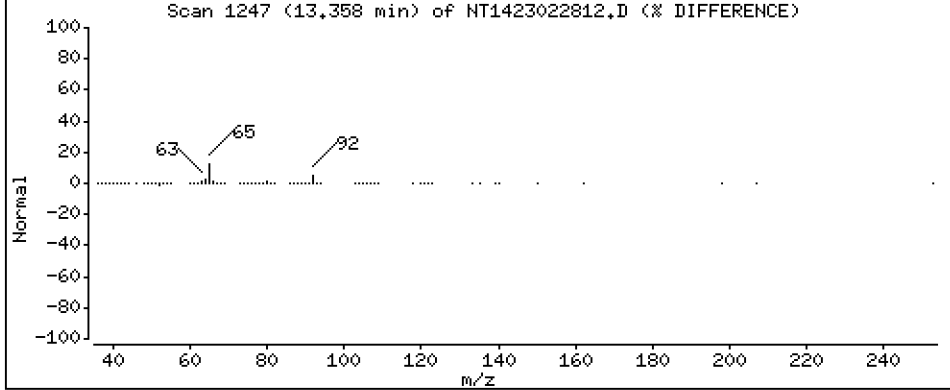
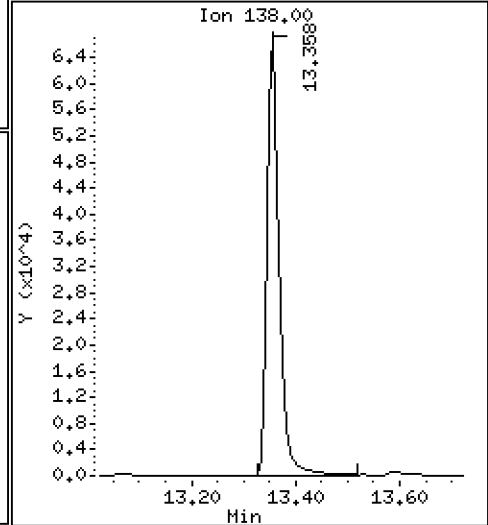
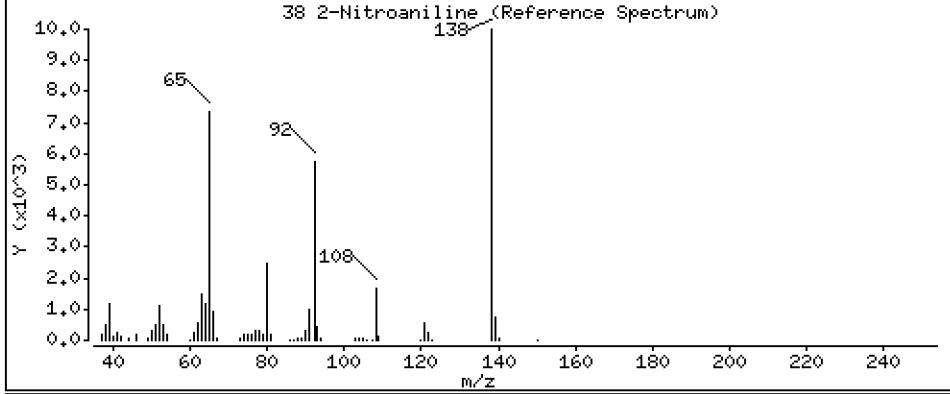
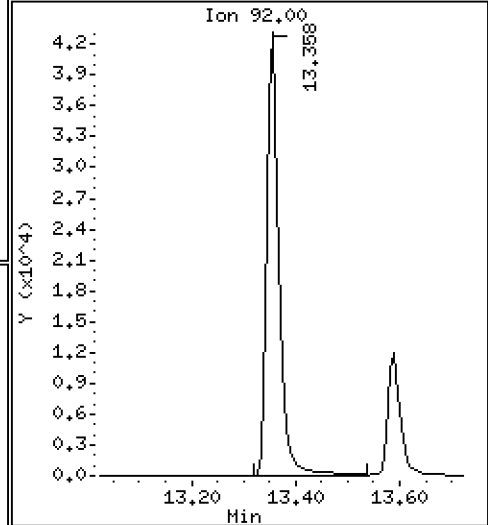
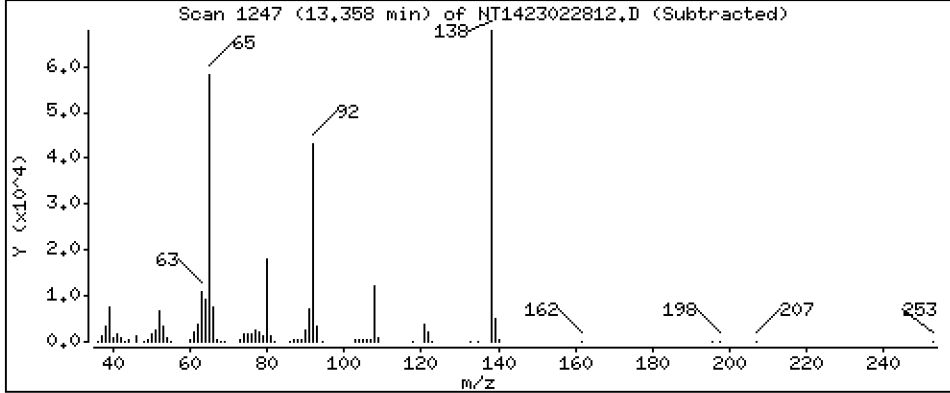
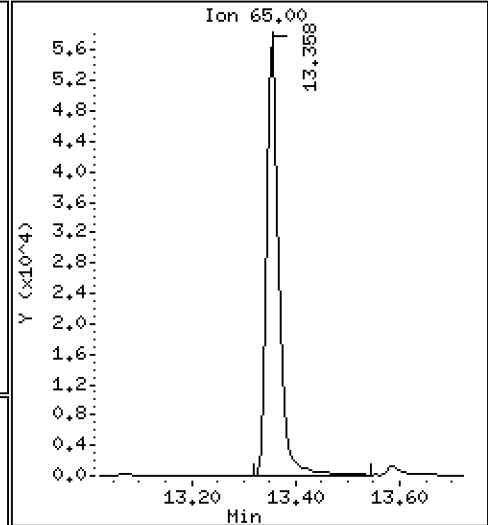
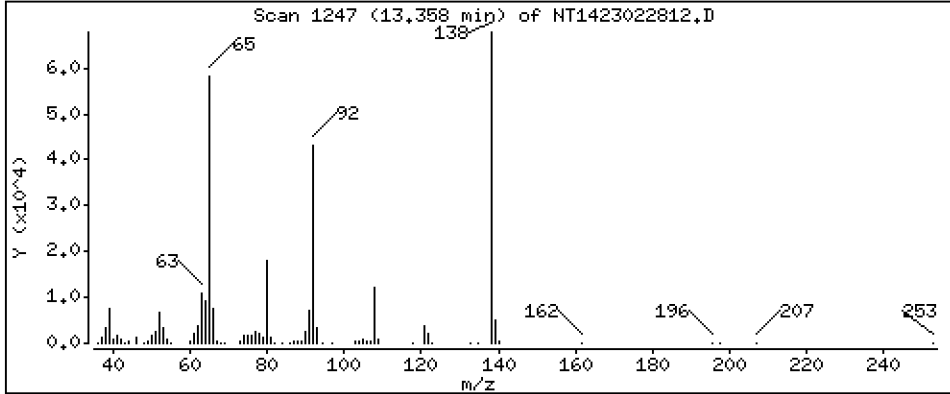
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

38 2-Nitroaniline

Concentration: 4,980 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

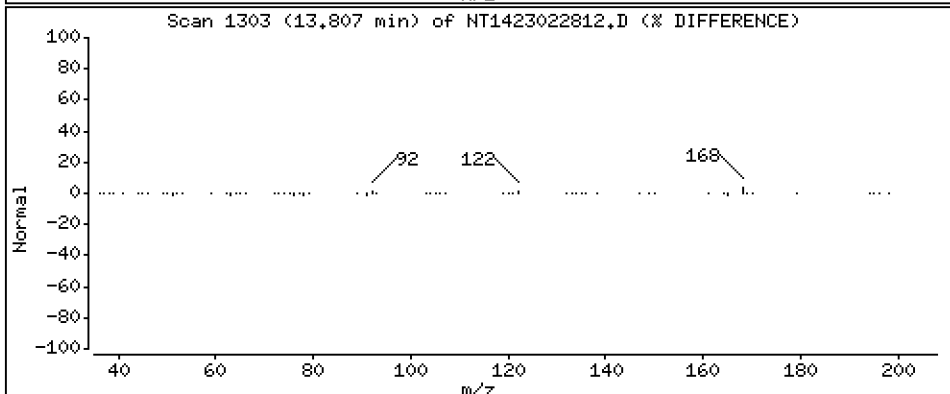
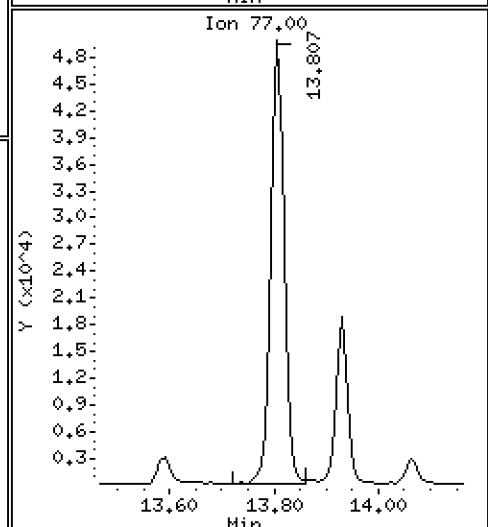
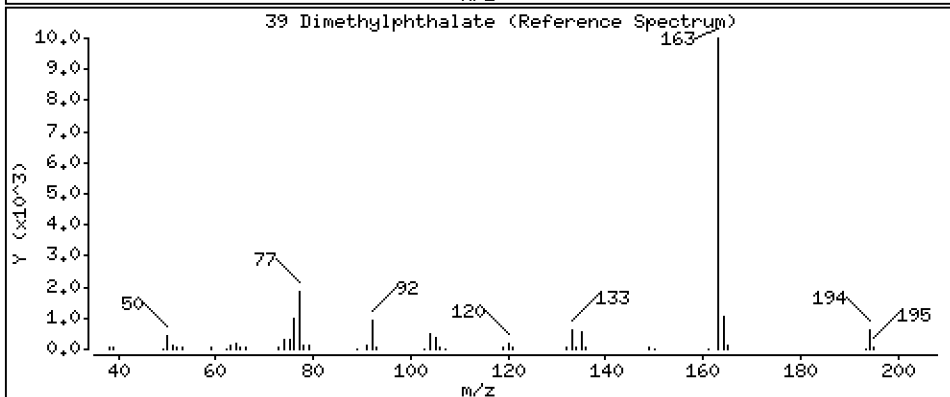
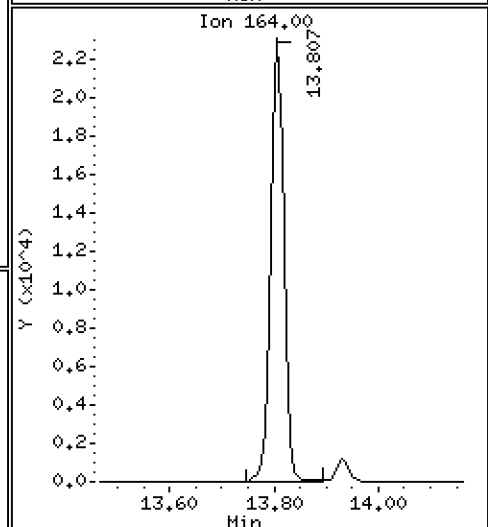
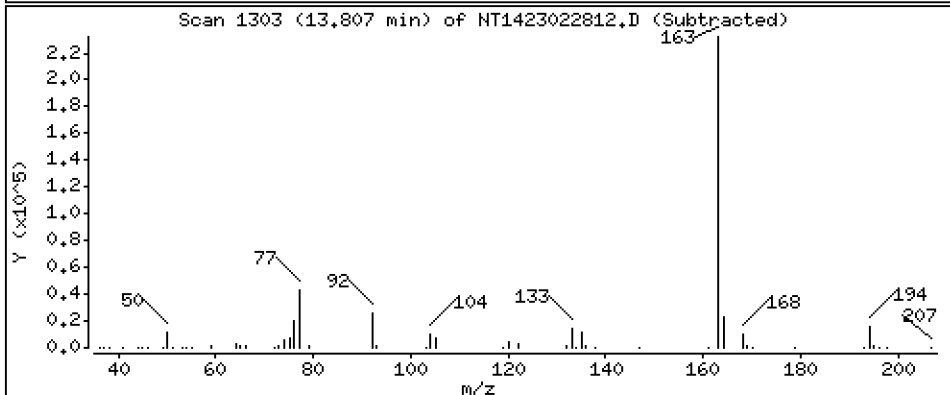
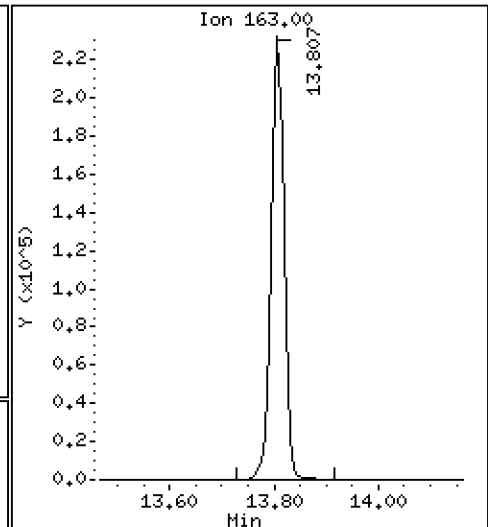
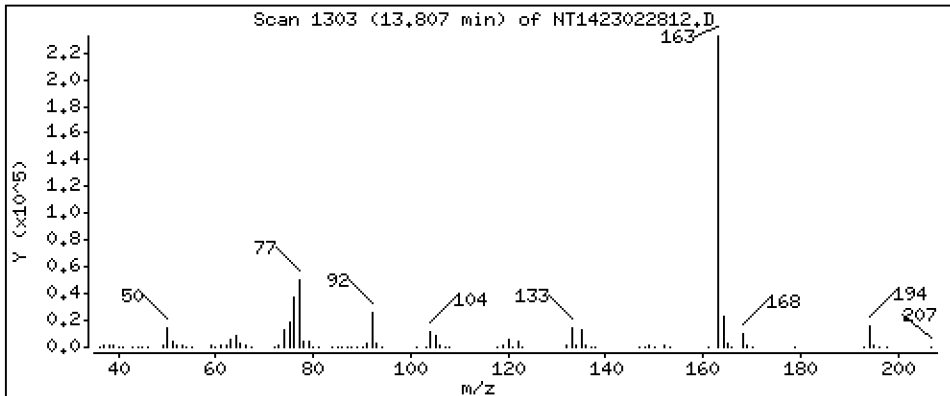
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 5,206 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

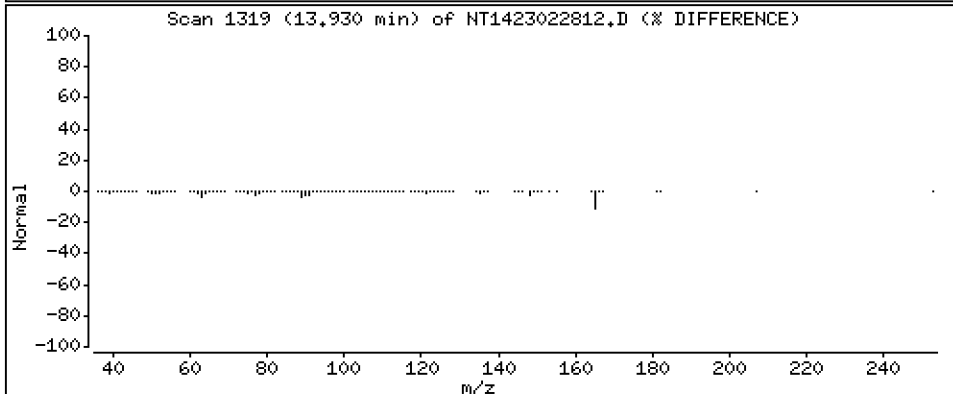
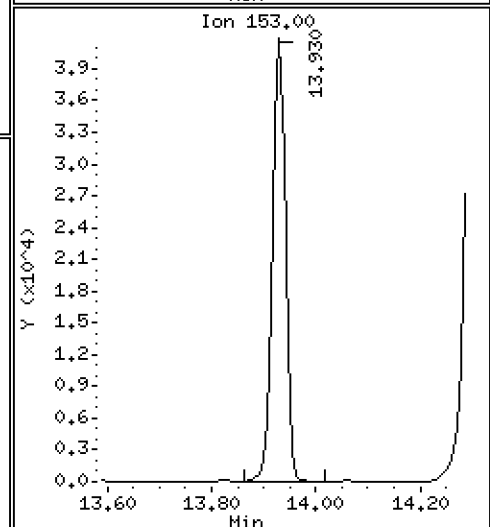
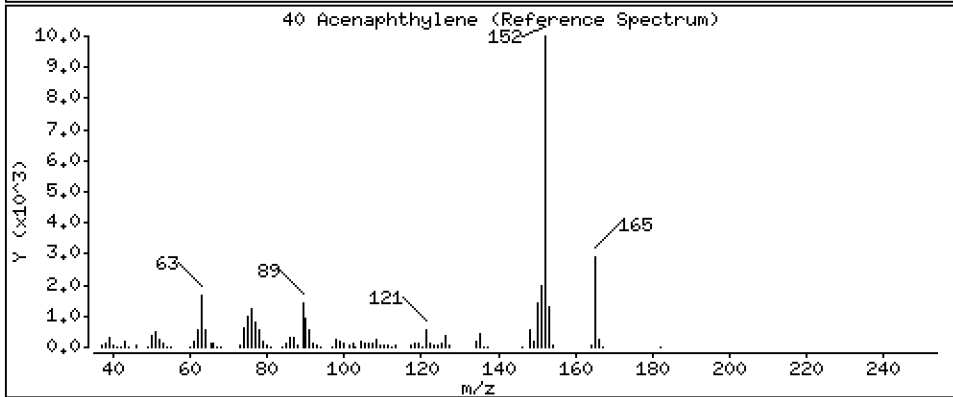
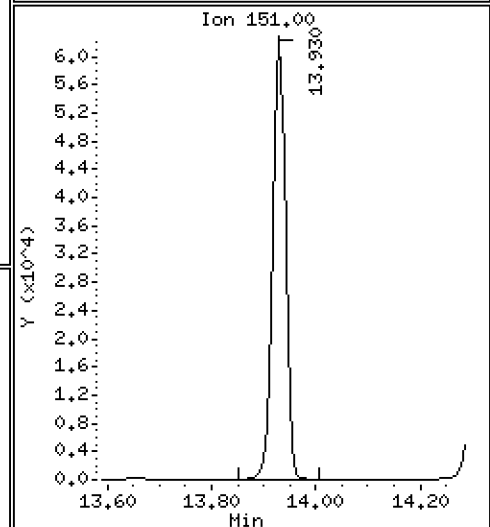
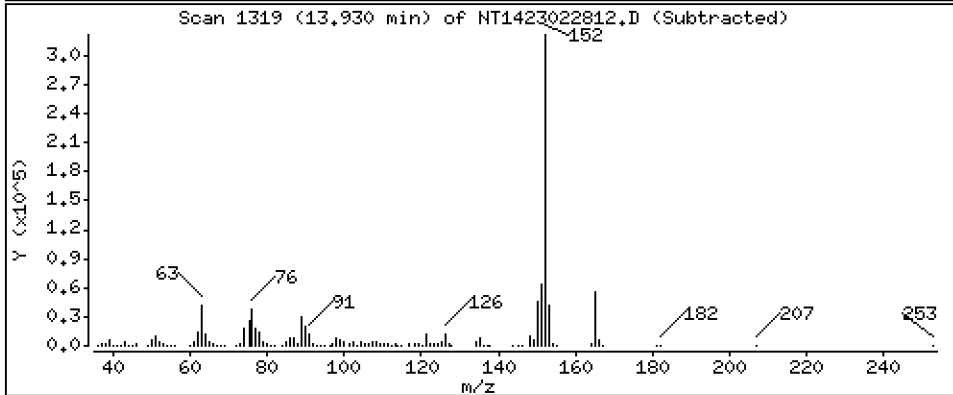
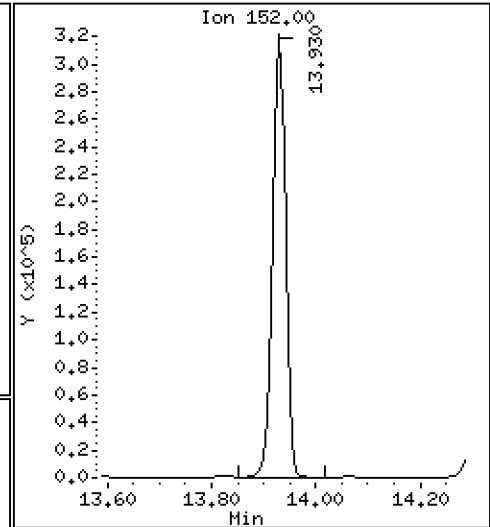
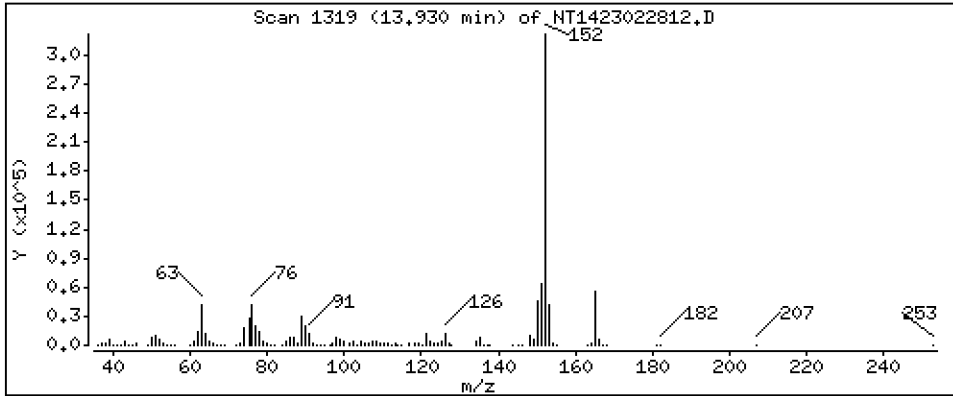
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 4,975 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

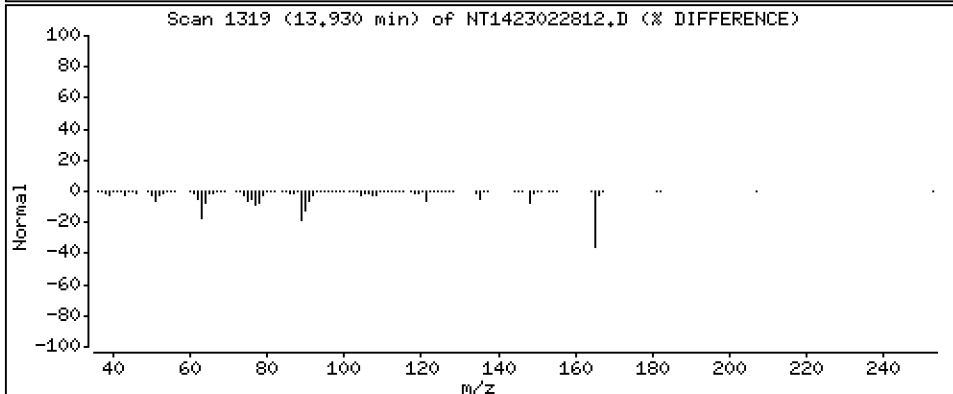
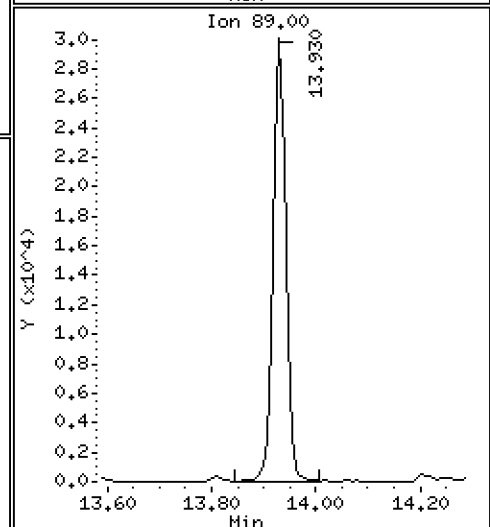
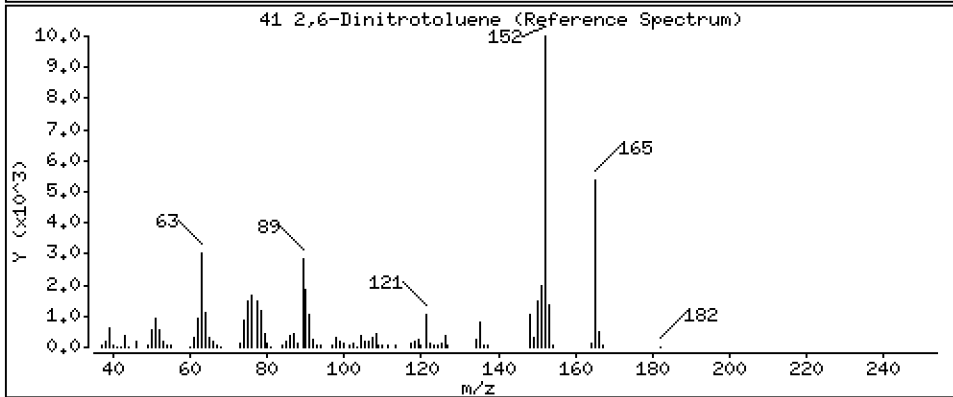
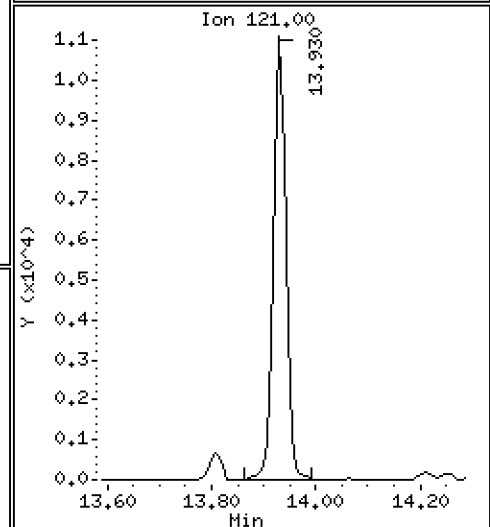
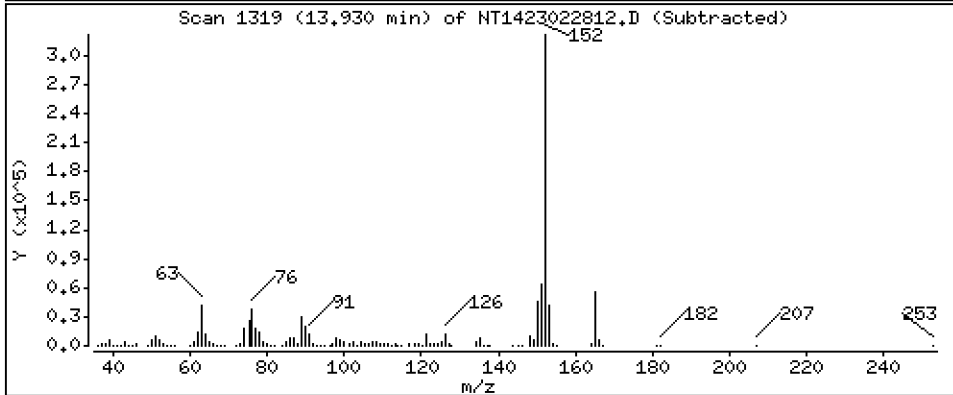
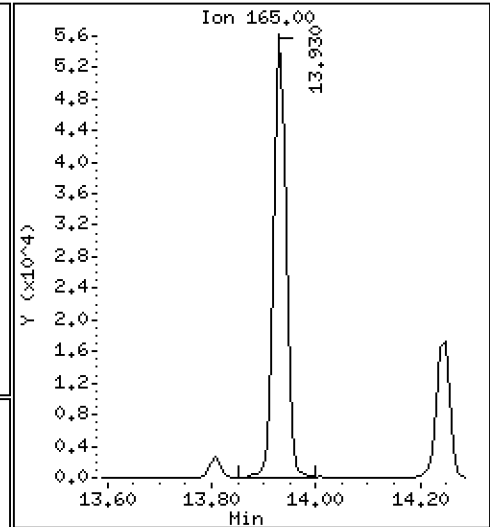
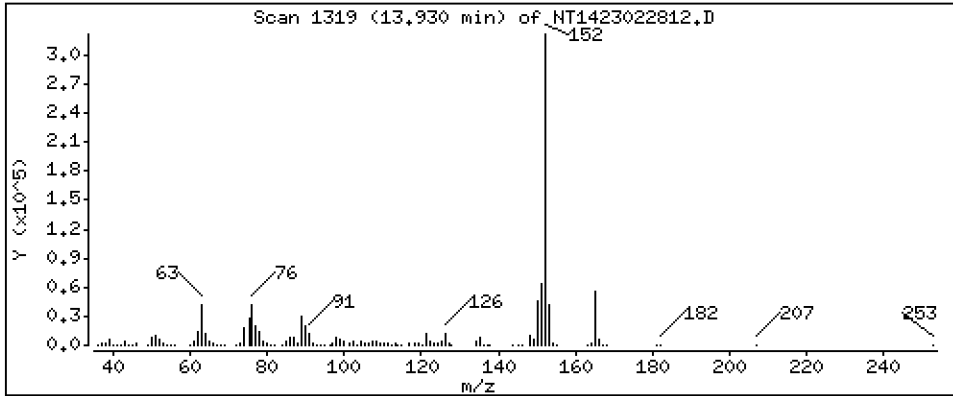
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

41 2,6-Dinitrotoluene

Concentration: 5,227 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

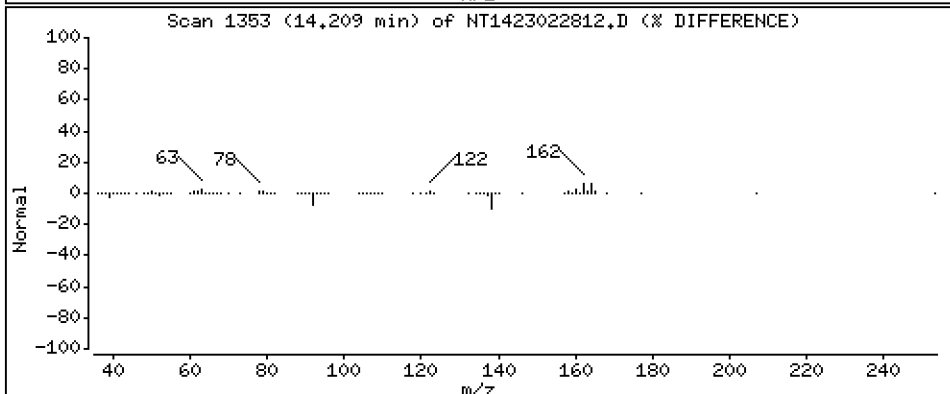
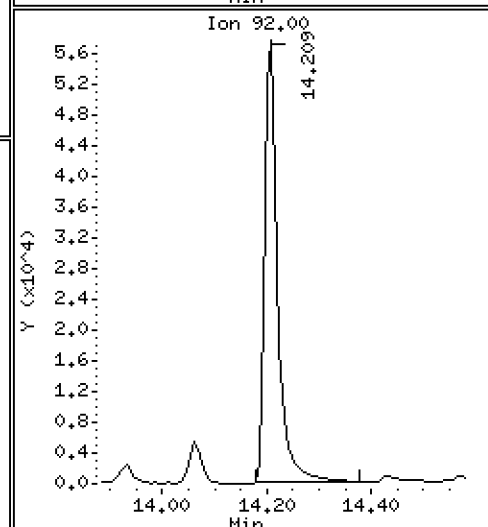
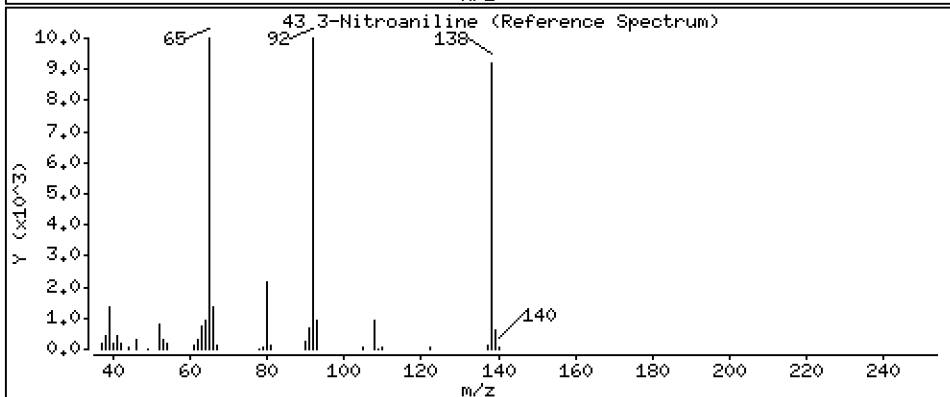
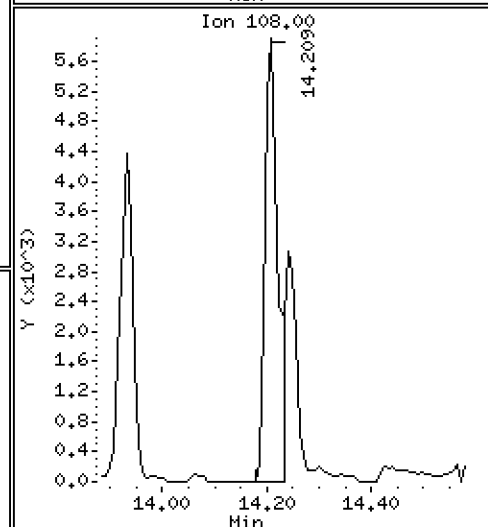
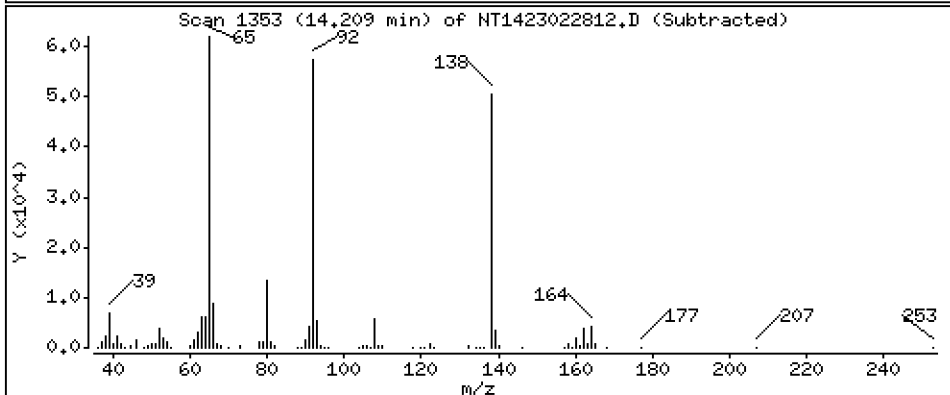
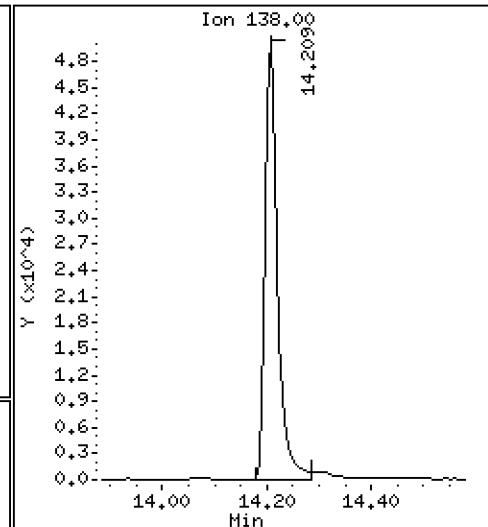
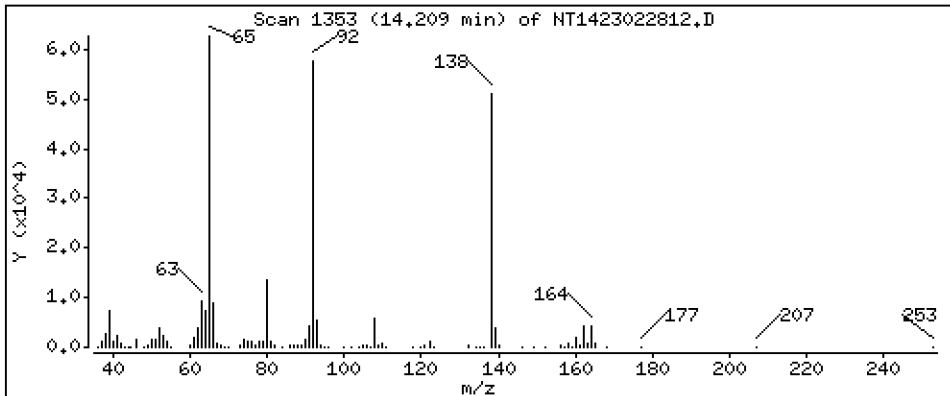
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

43 3-Nitroaniline

Concentration: 4,869 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

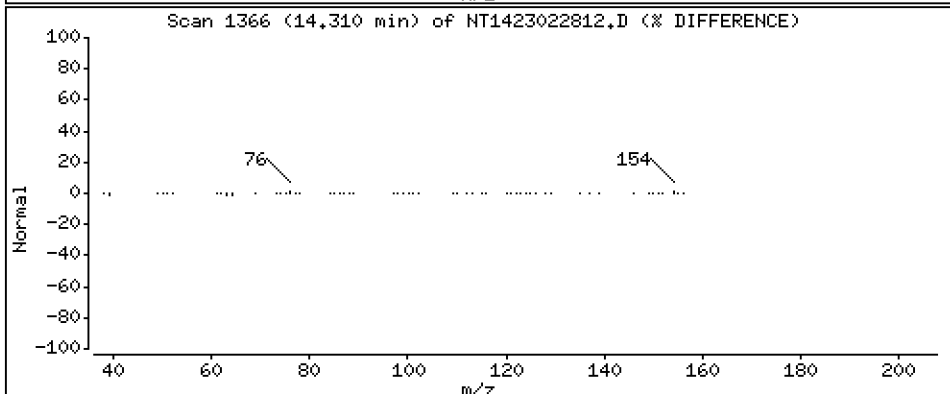
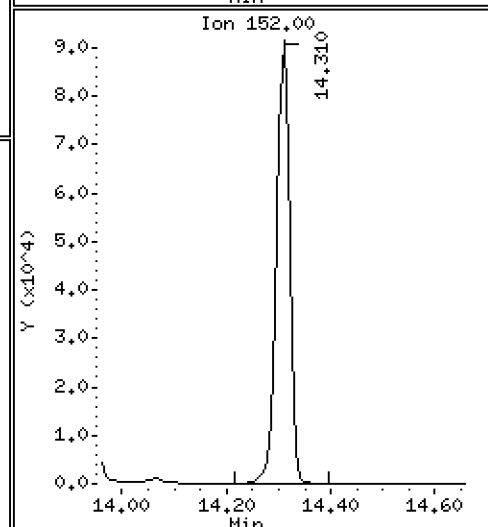
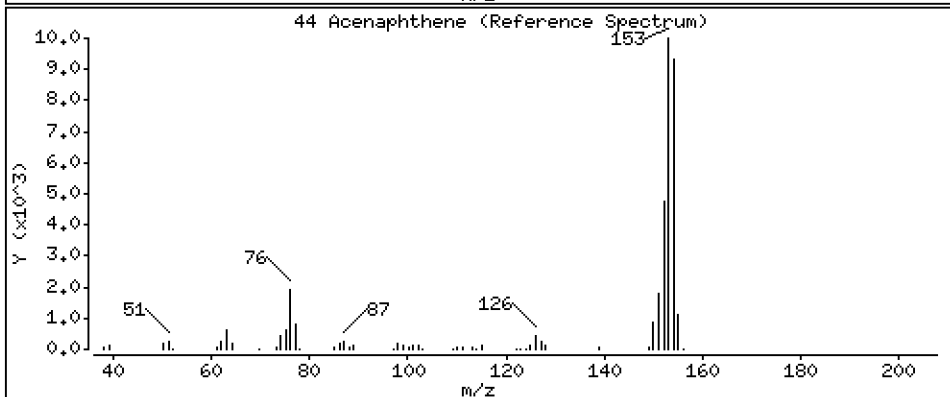
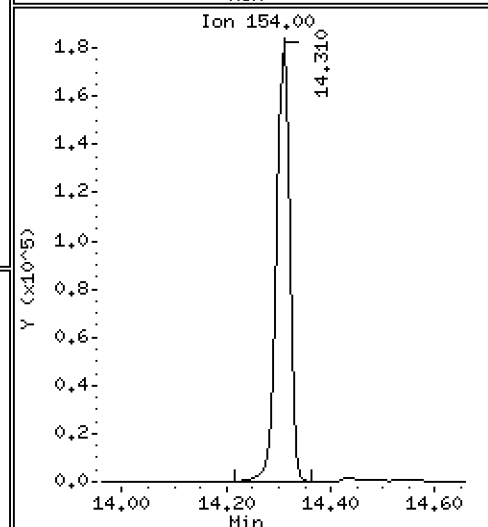
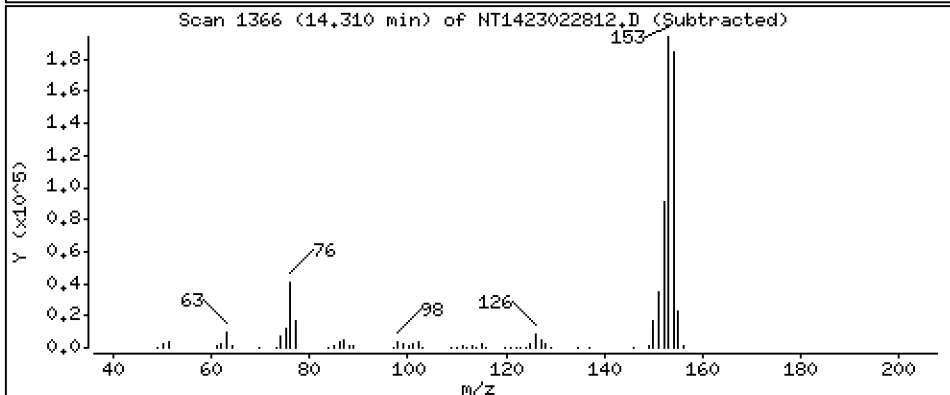
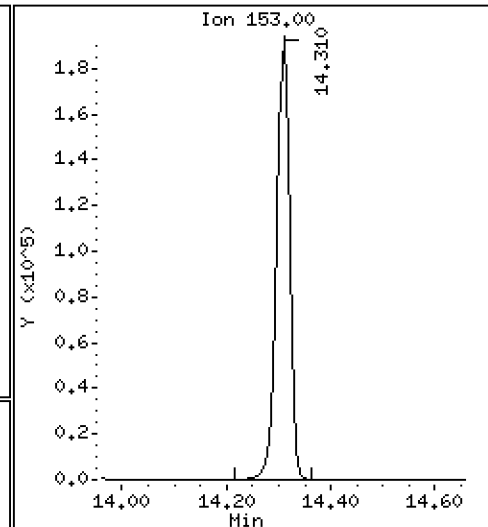
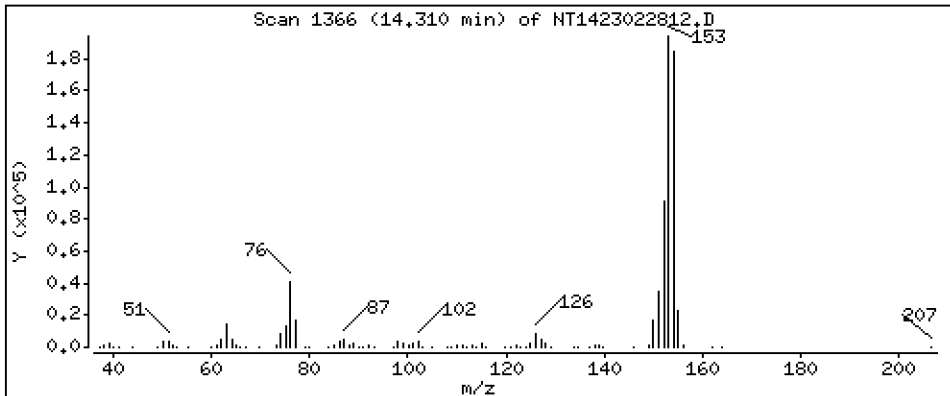
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

44 Acenaphthene

Concentration: 4.767 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

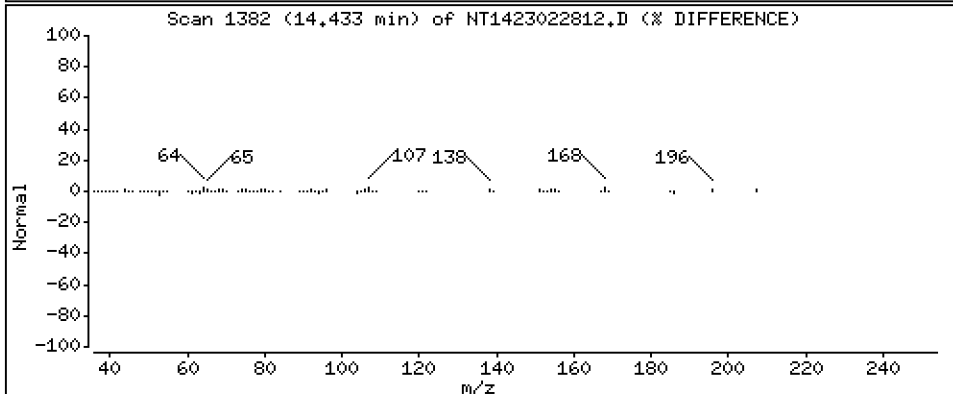
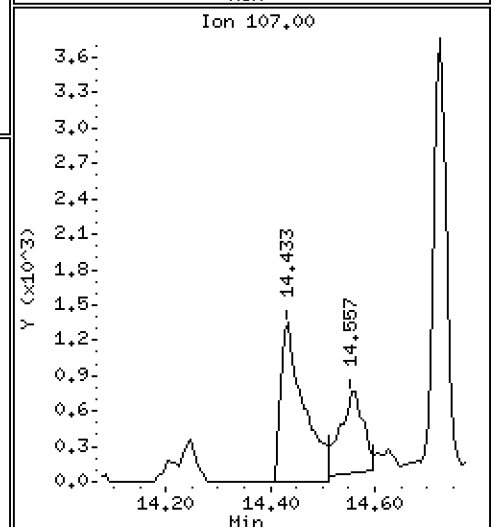
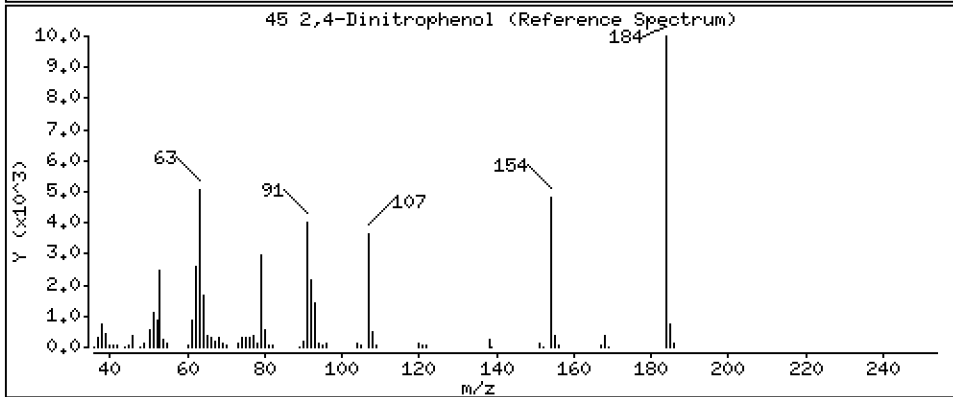
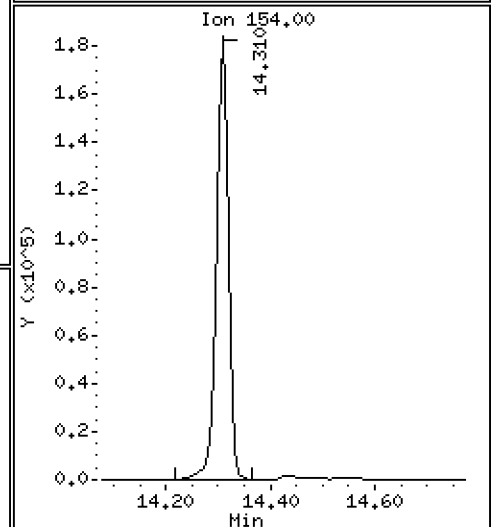
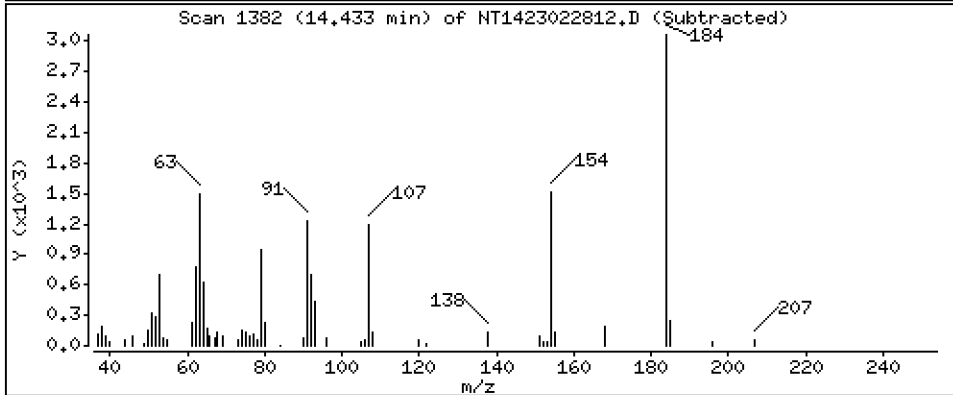
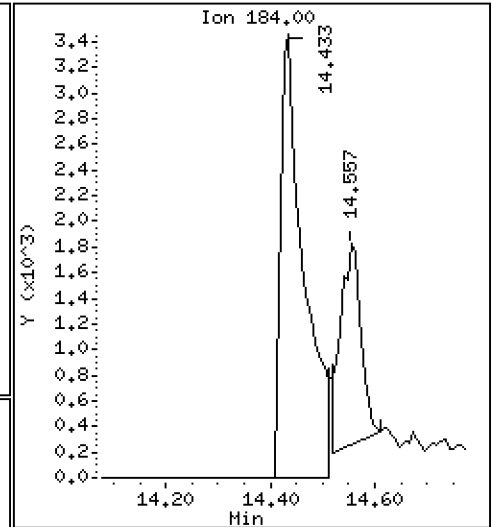
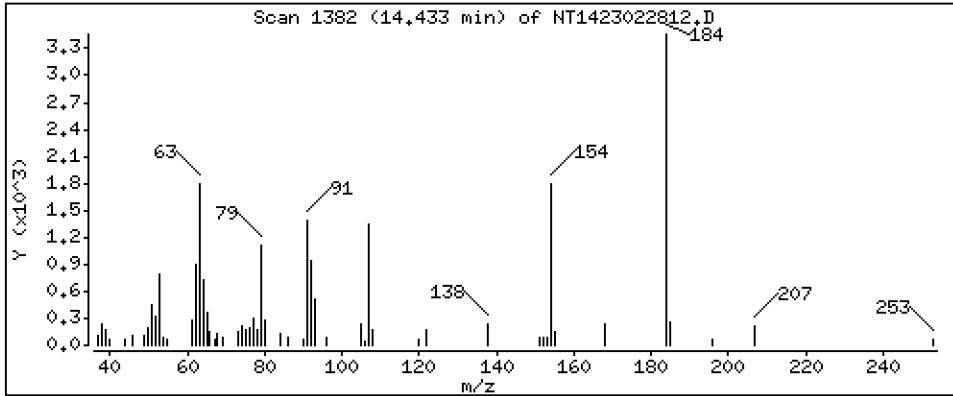
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

45 2,4-Dinitrophenol

Concentration: 0.9807 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

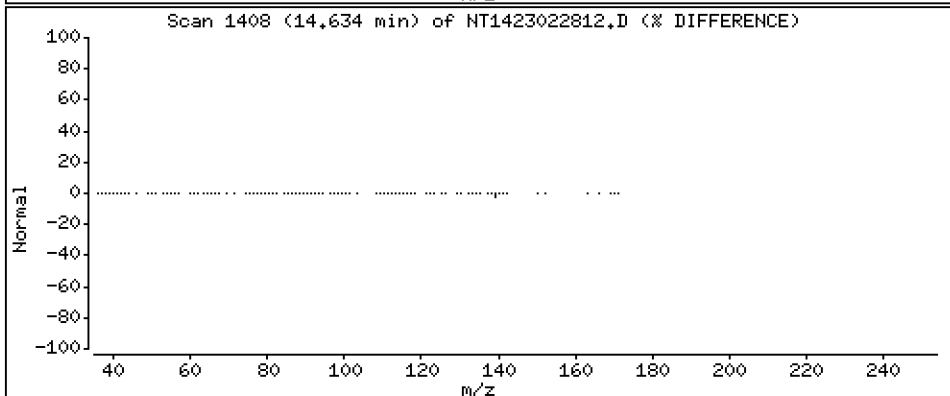
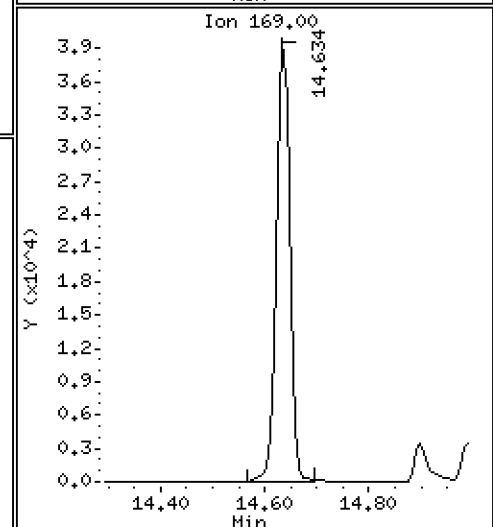
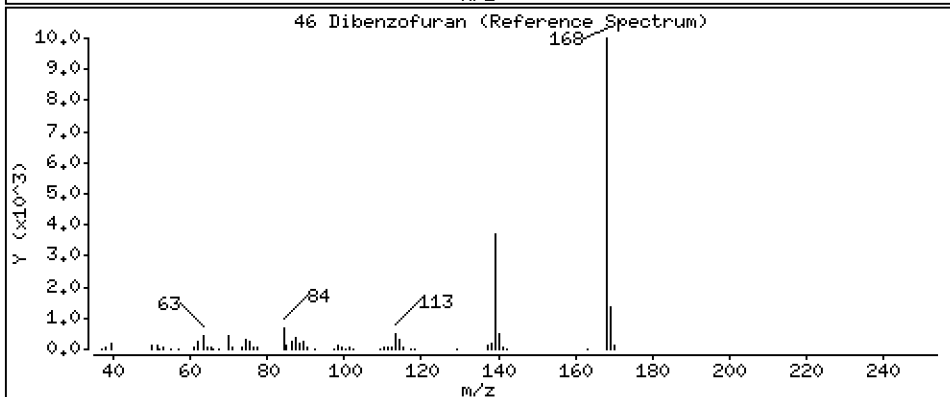
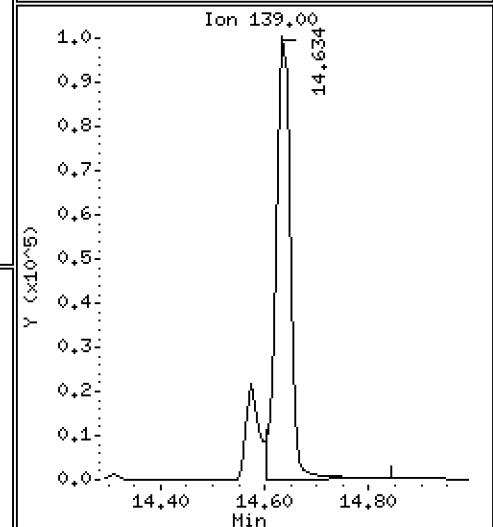
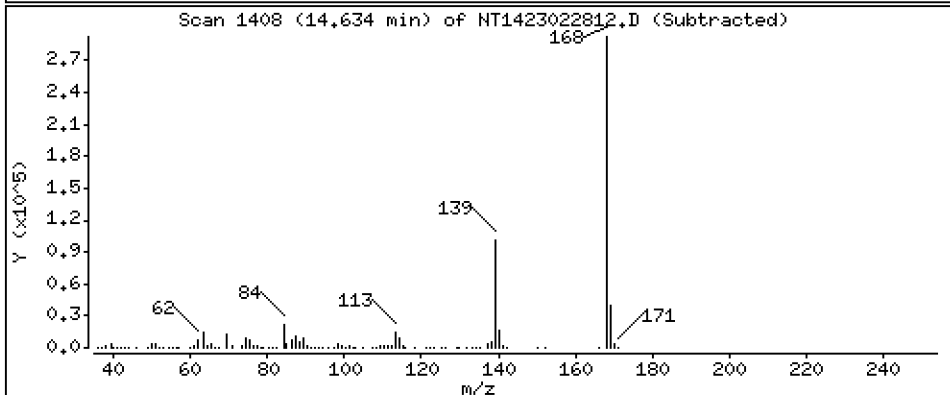
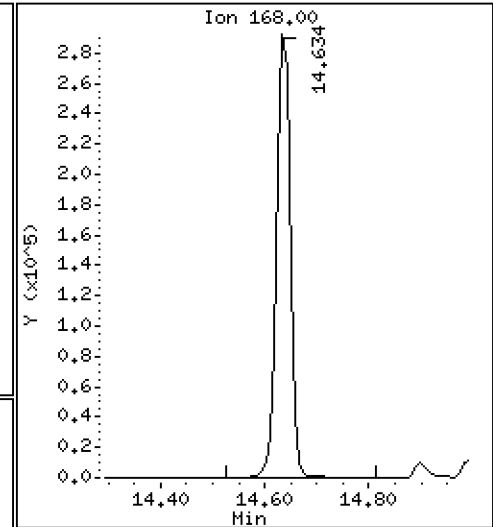
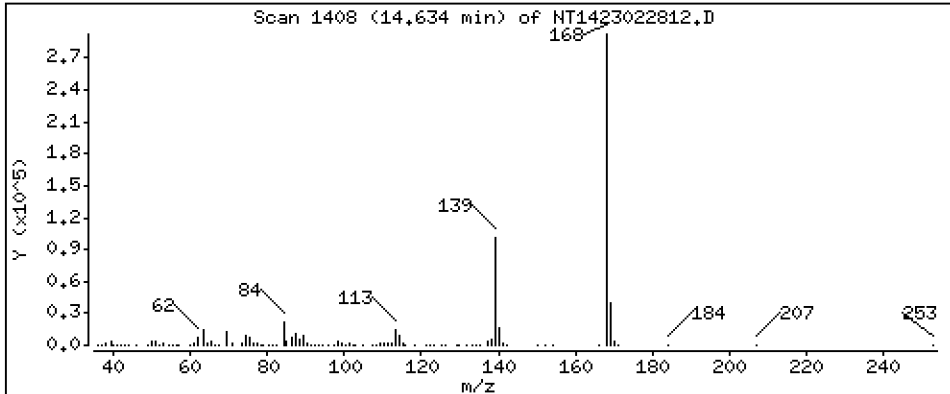
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 4,718 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

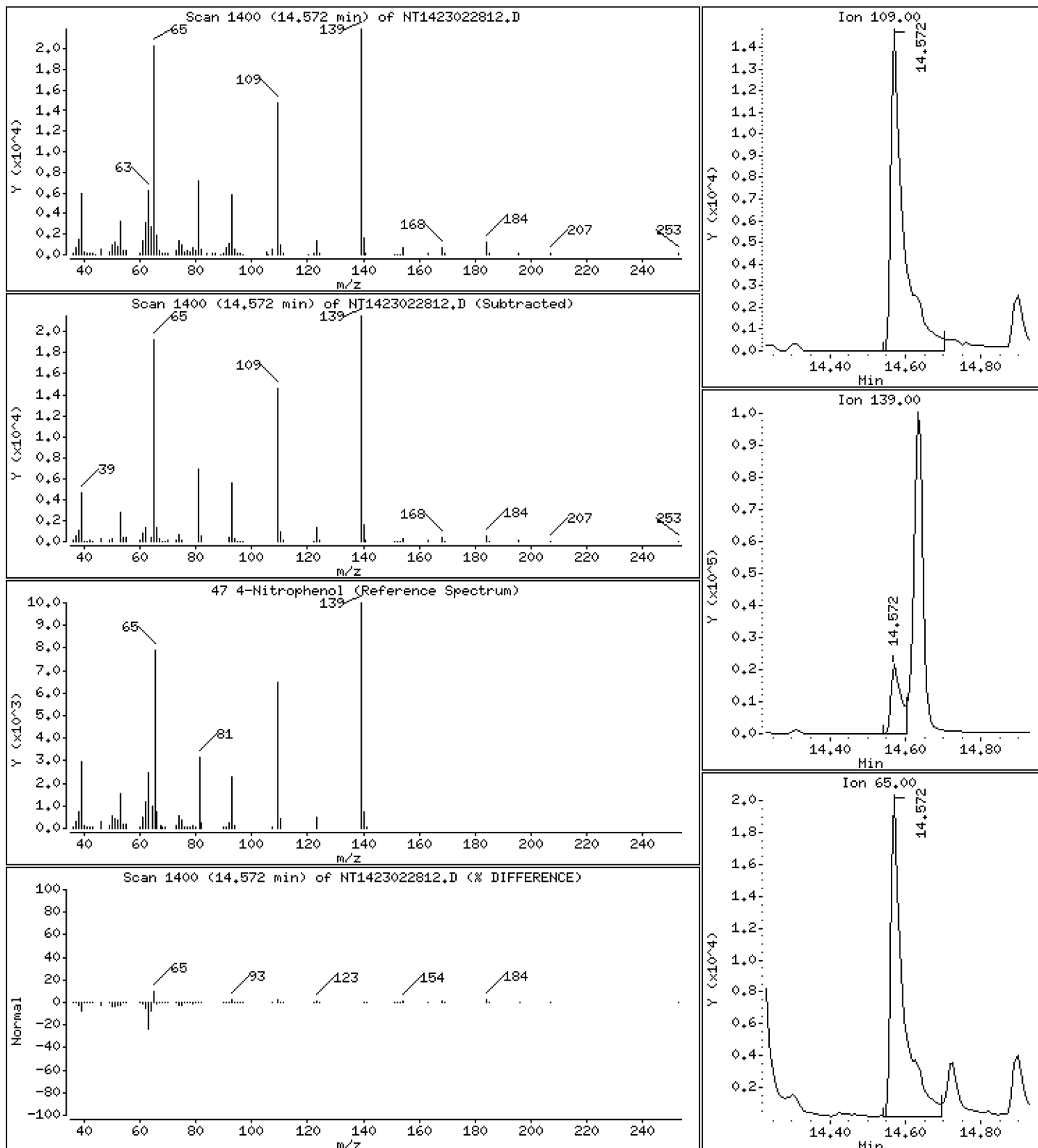
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

47 4-Nitrophenol

Concentration: 3,934 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

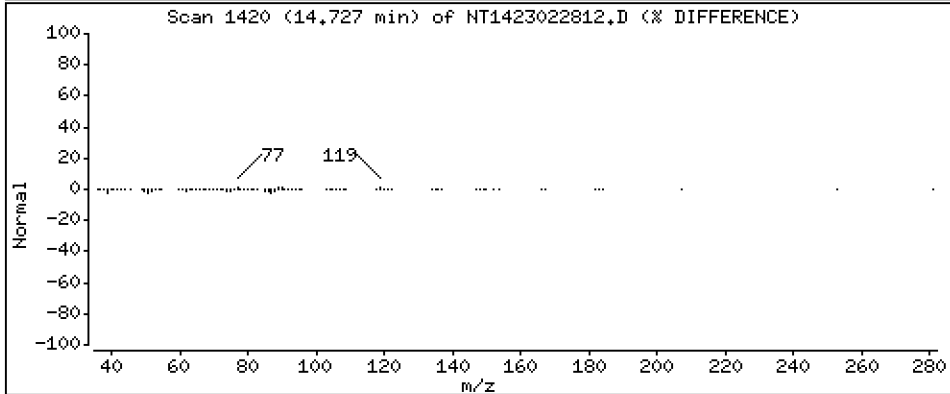
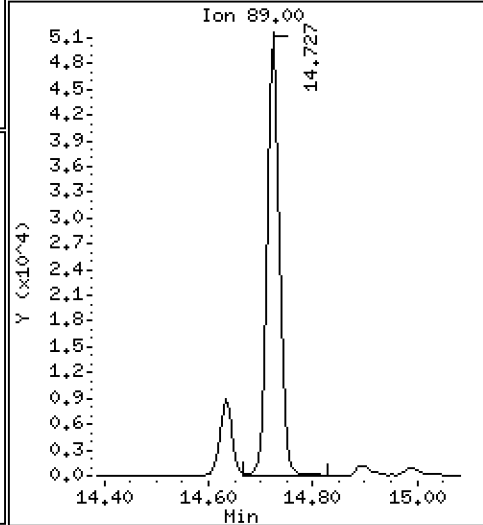
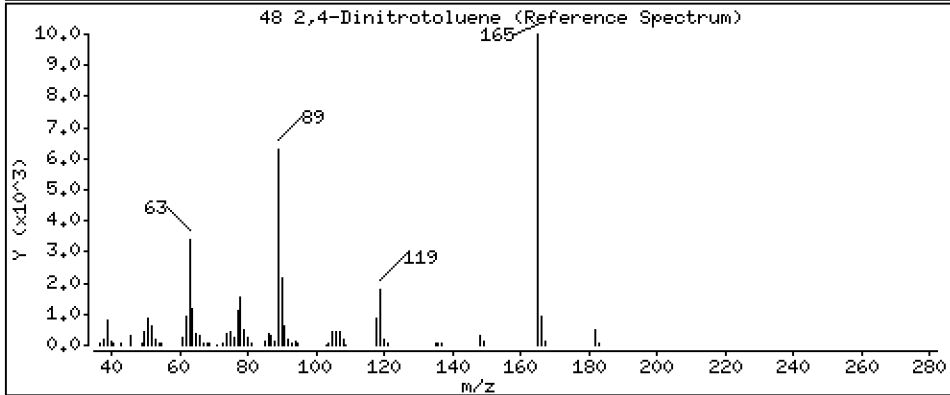
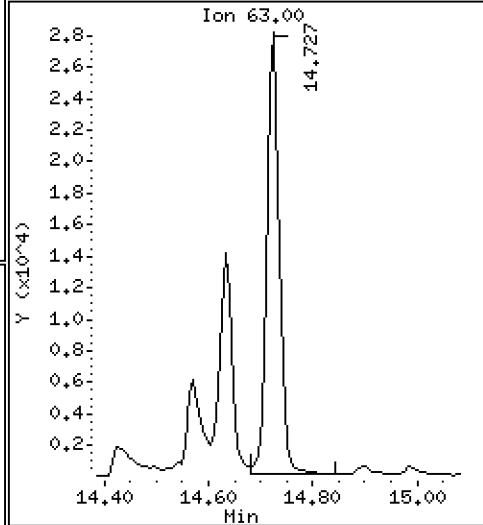
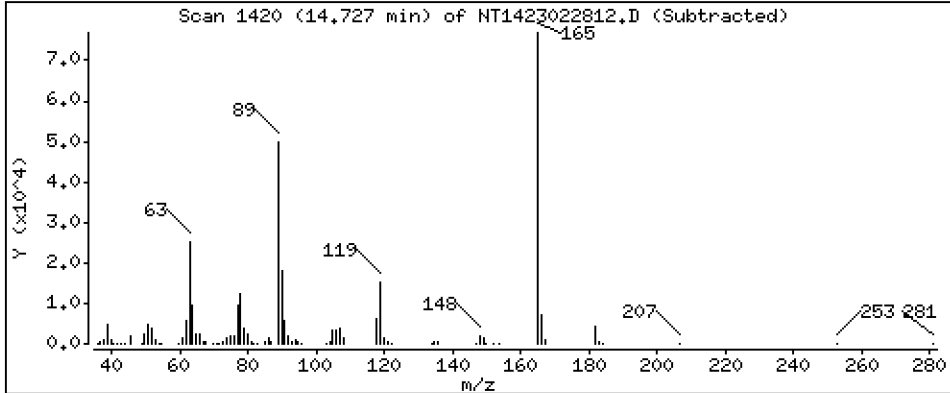
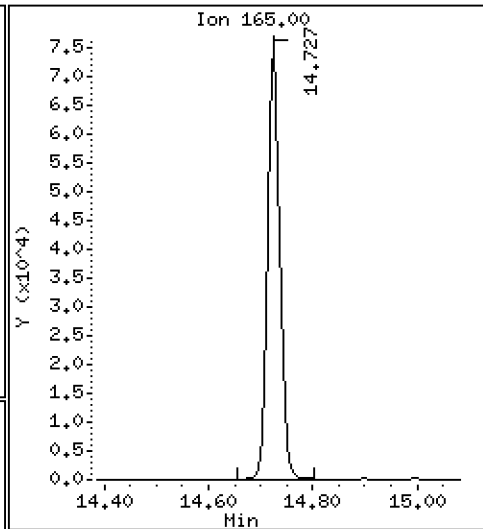
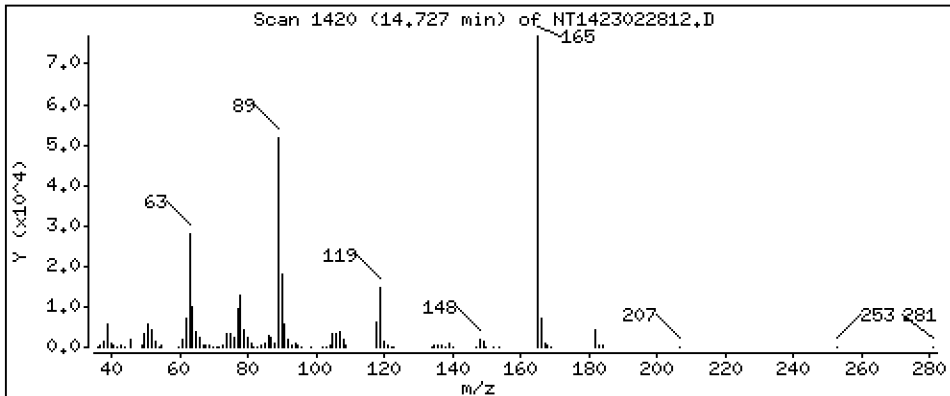
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

48 2,4-Dinitrotoluene

Concentration: 4,941 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

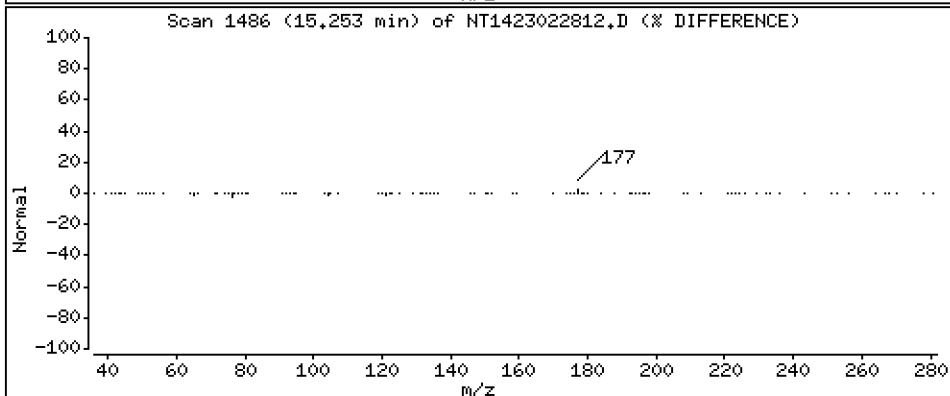
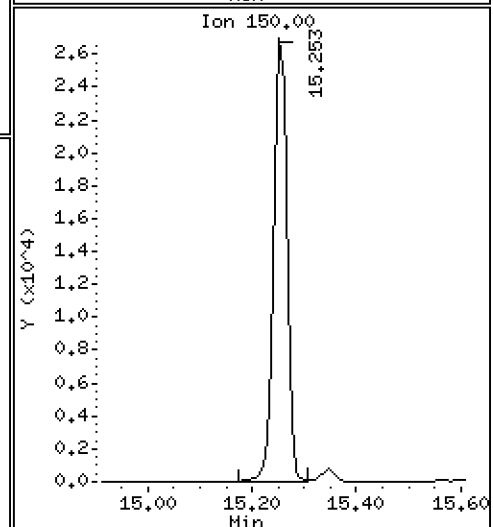
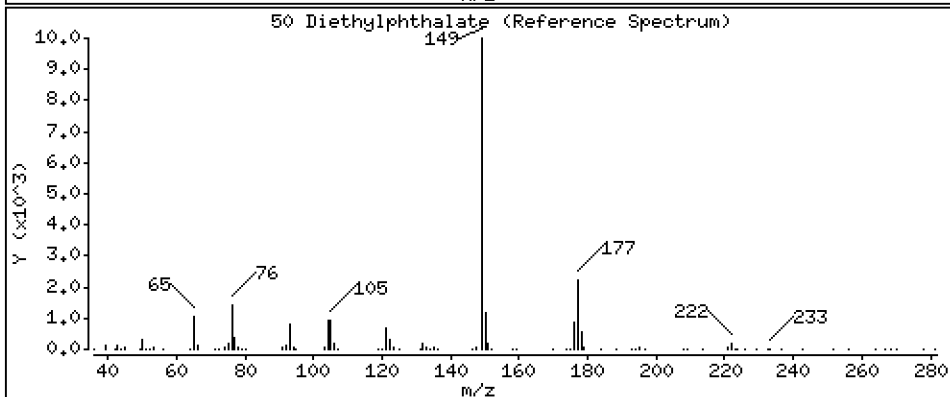
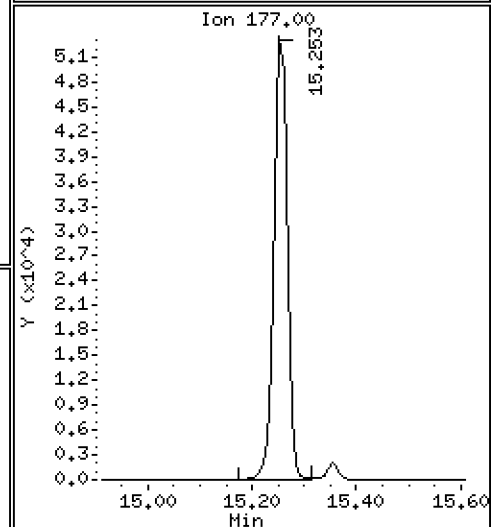
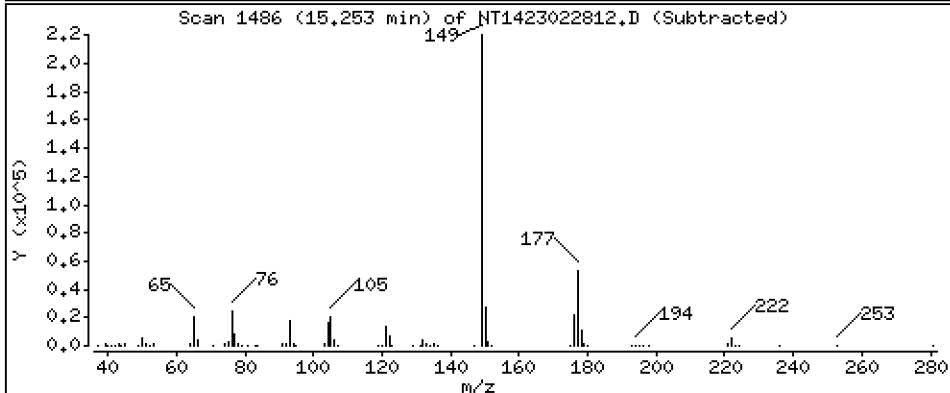
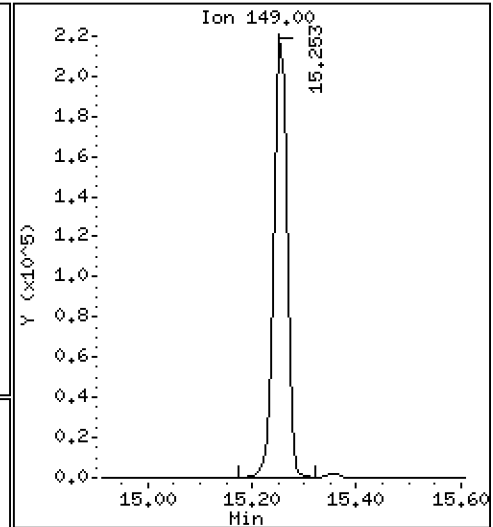
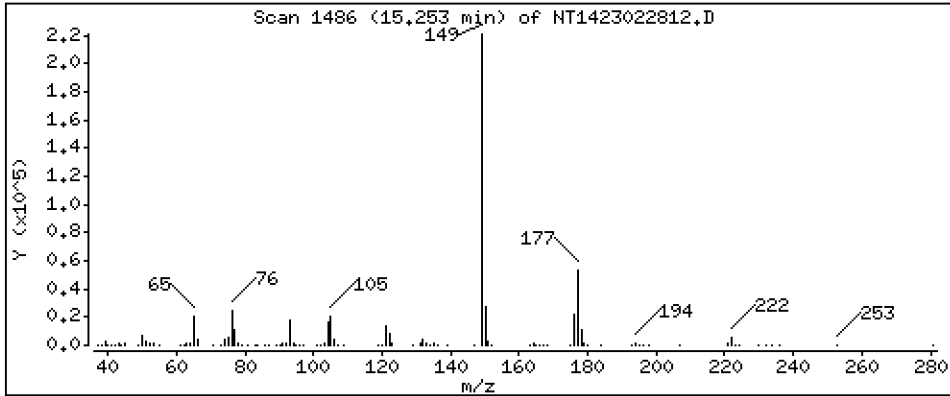
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

50 Diethylphthalate

Concentration: 5.420 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

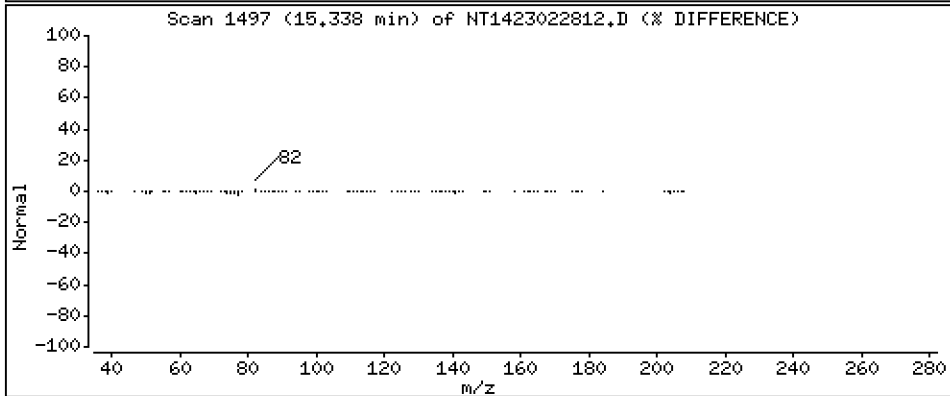
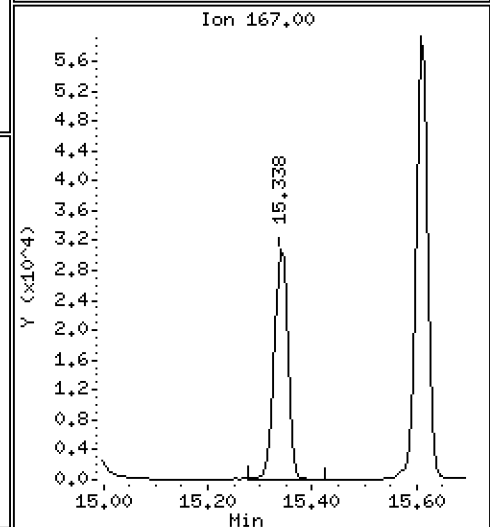
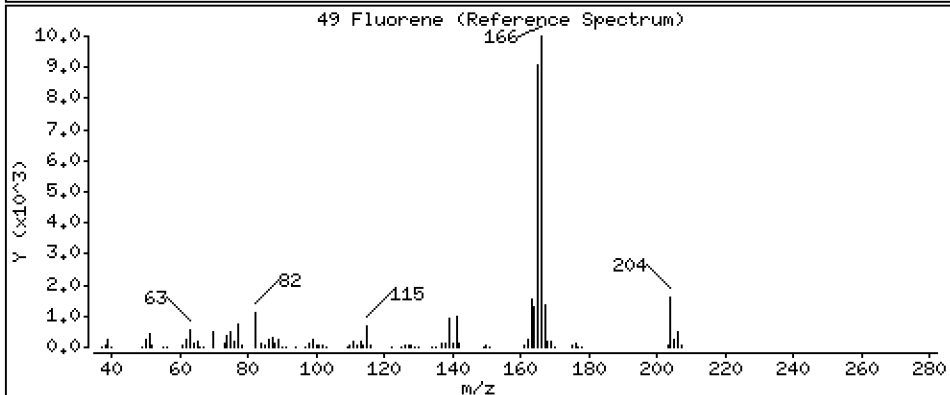
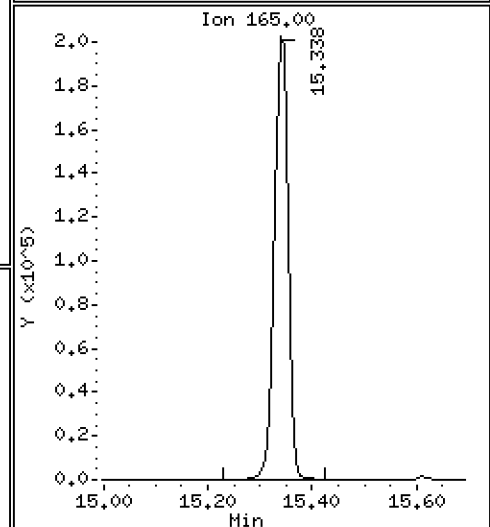
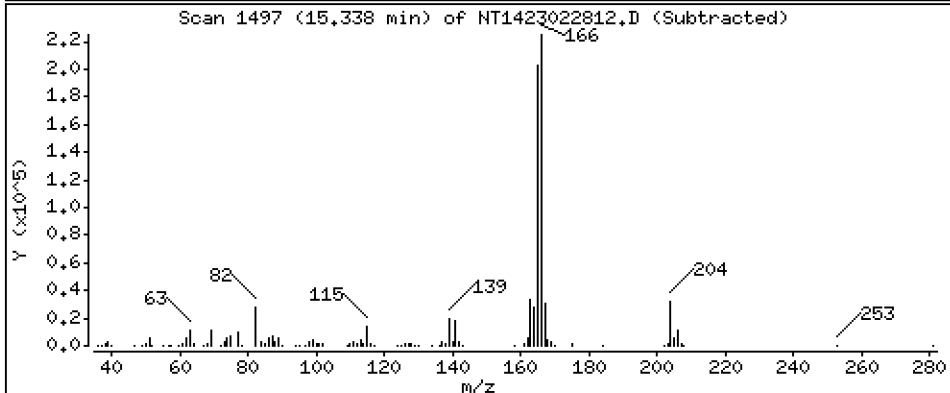
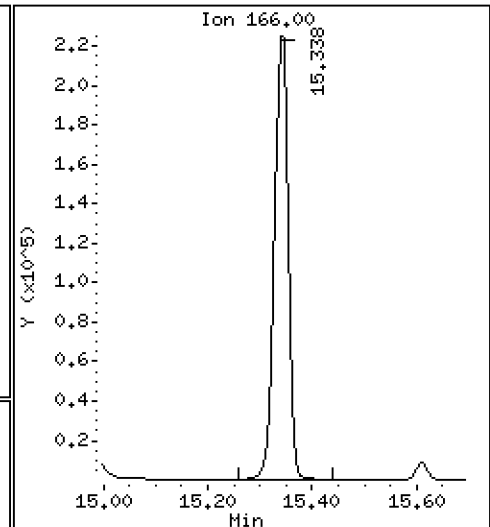
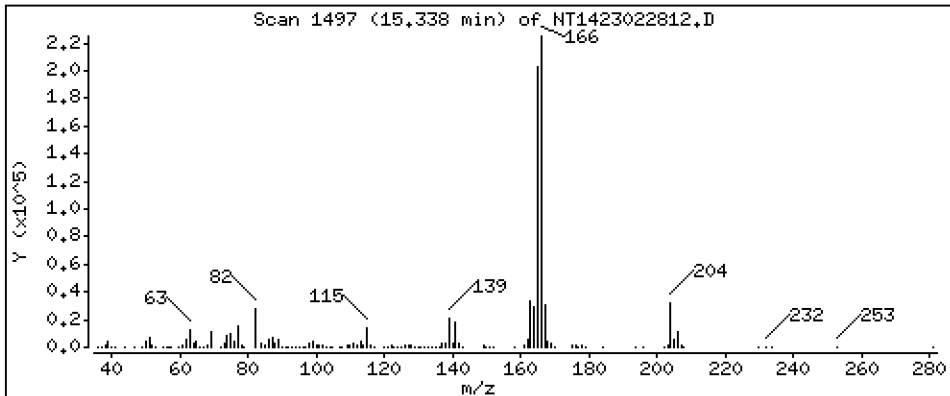
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 4,793 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

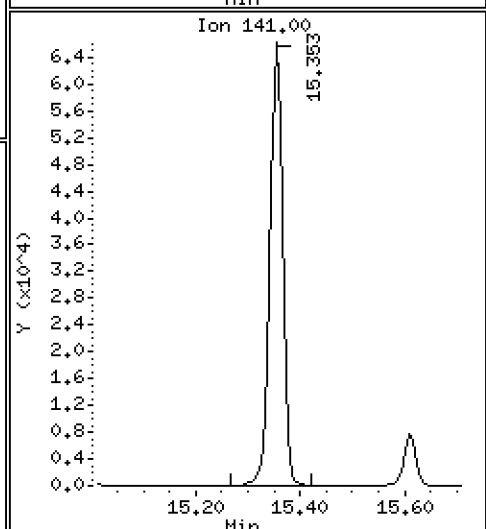
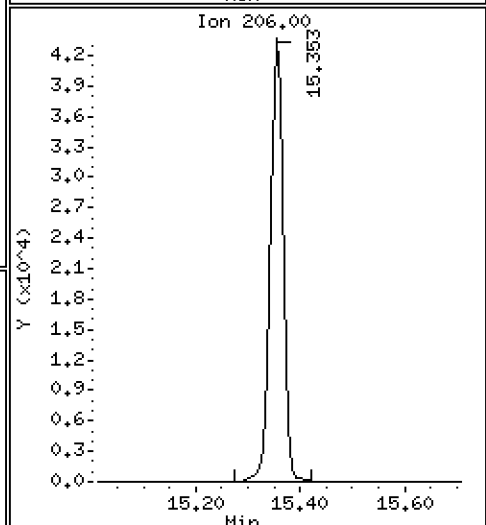
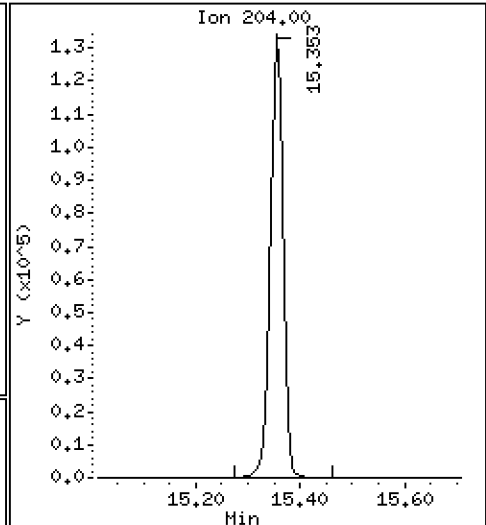
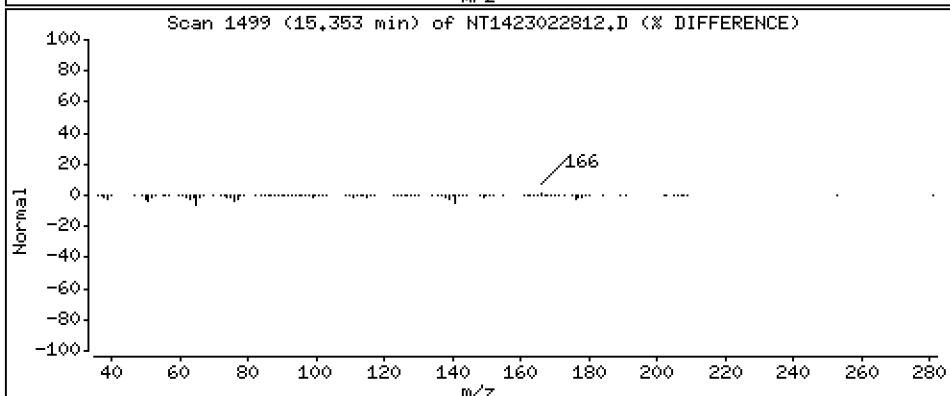
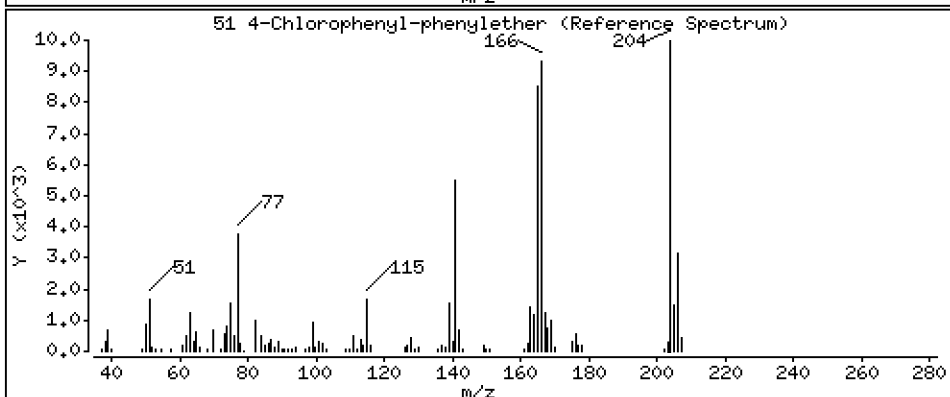
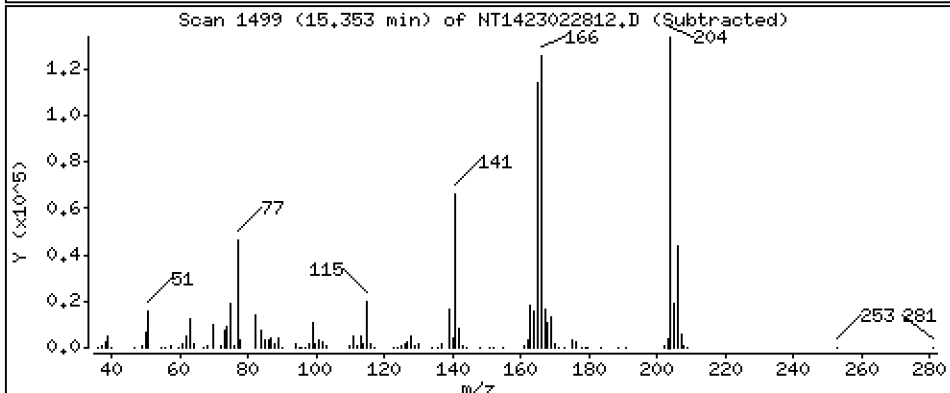
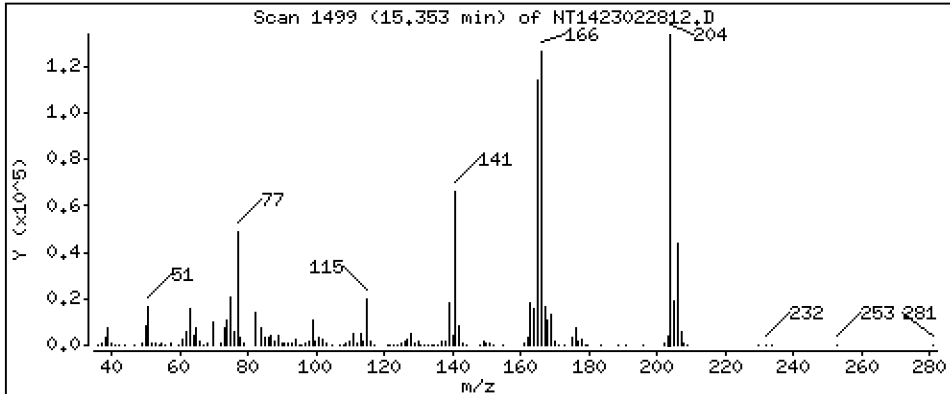
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 4,884 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

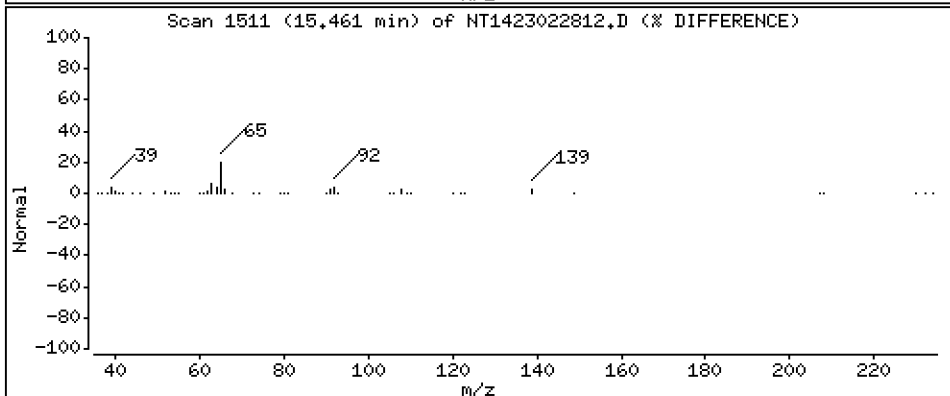
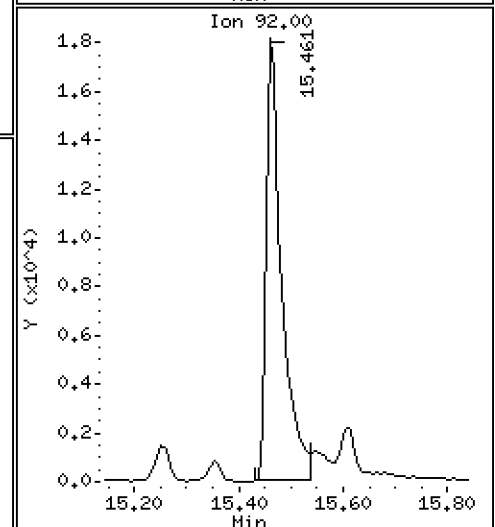
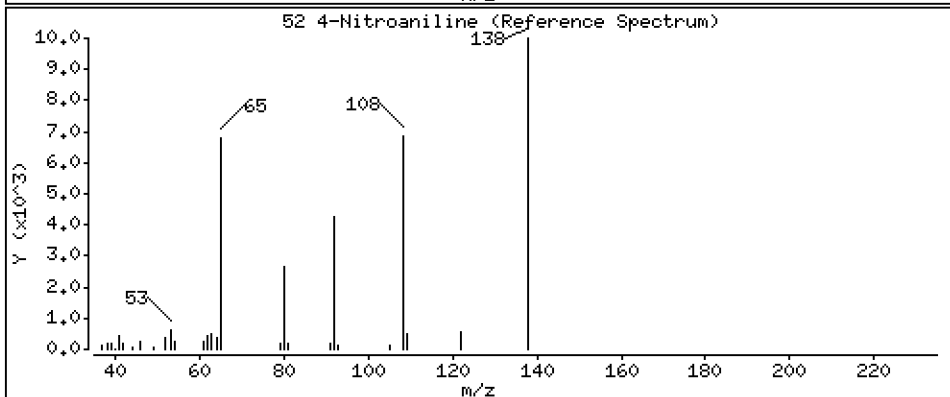
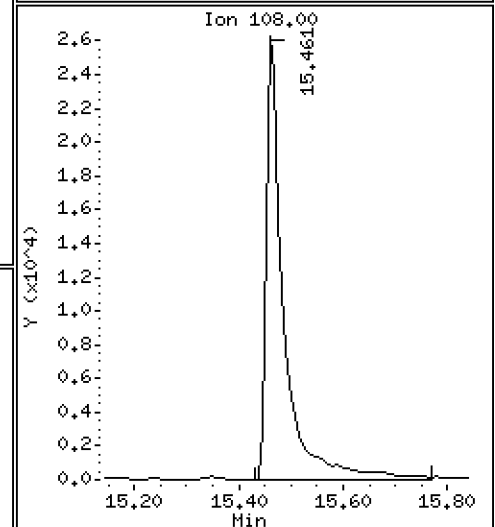
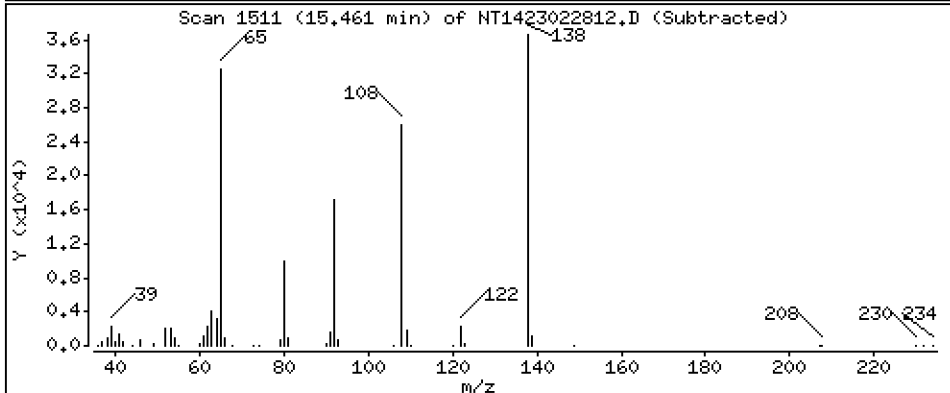
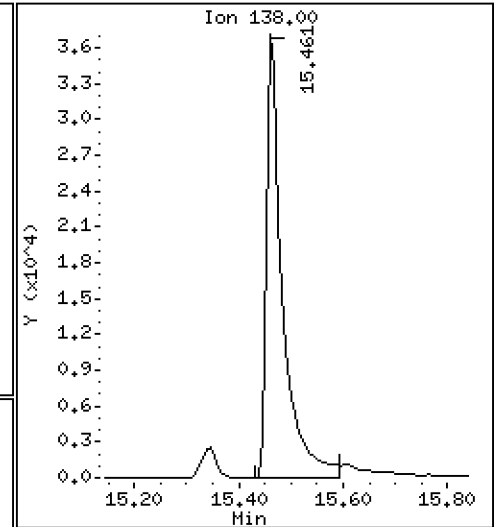
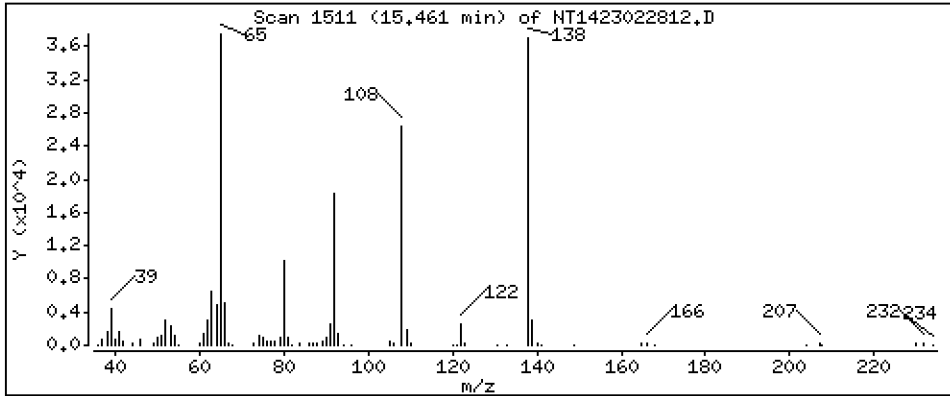
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

52 4-Nitroaniline

Concentration: 4,560 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

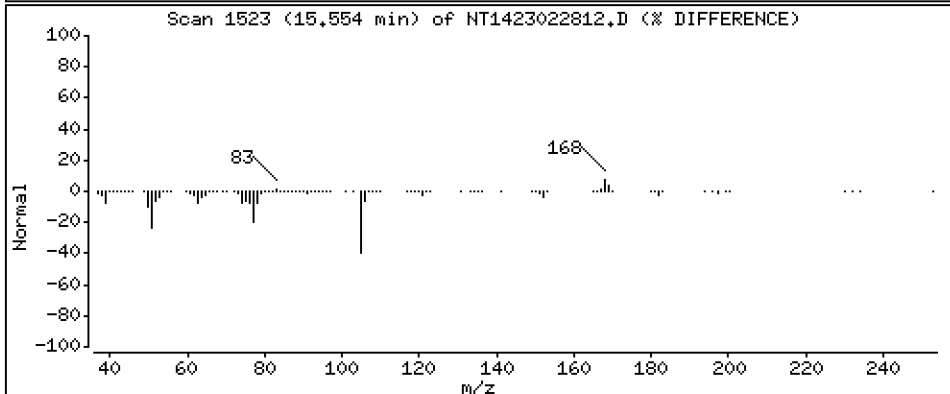
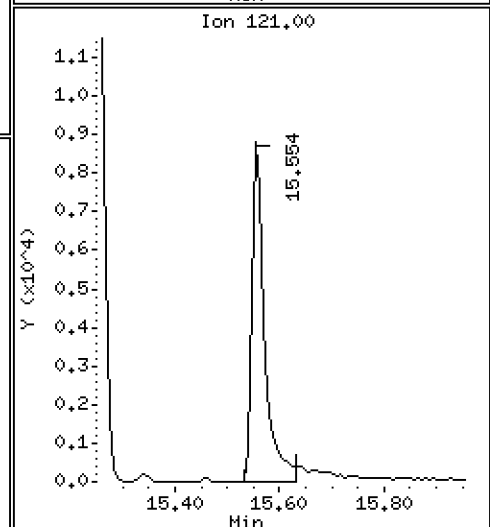
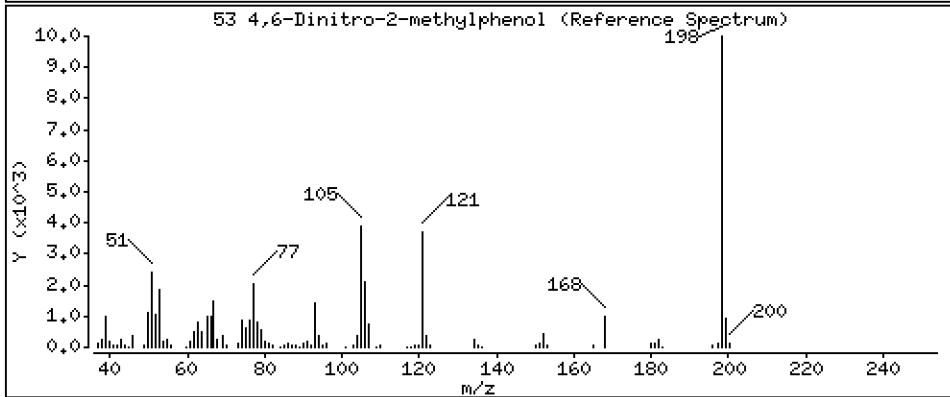
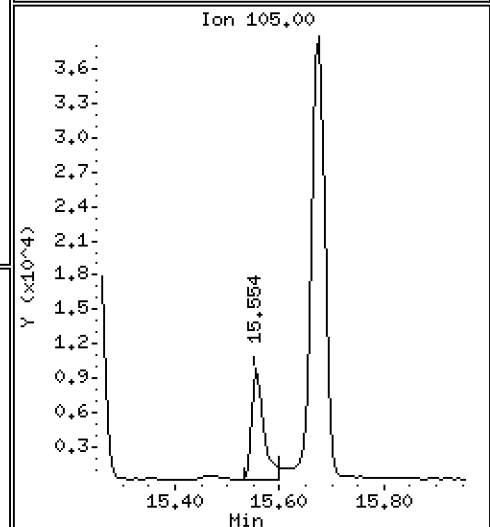
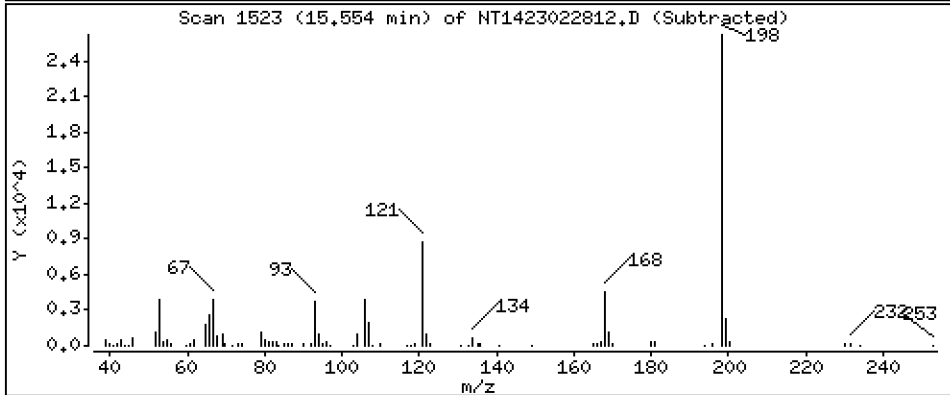
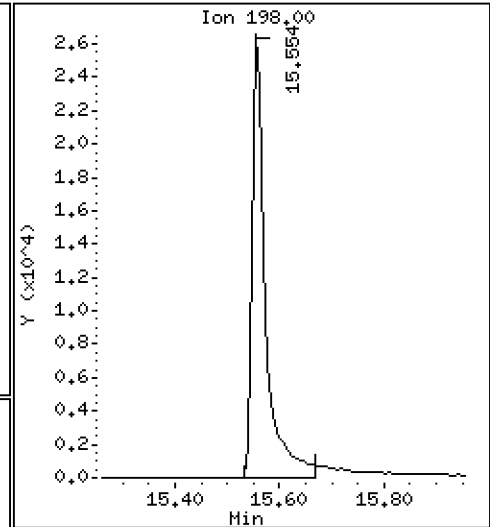
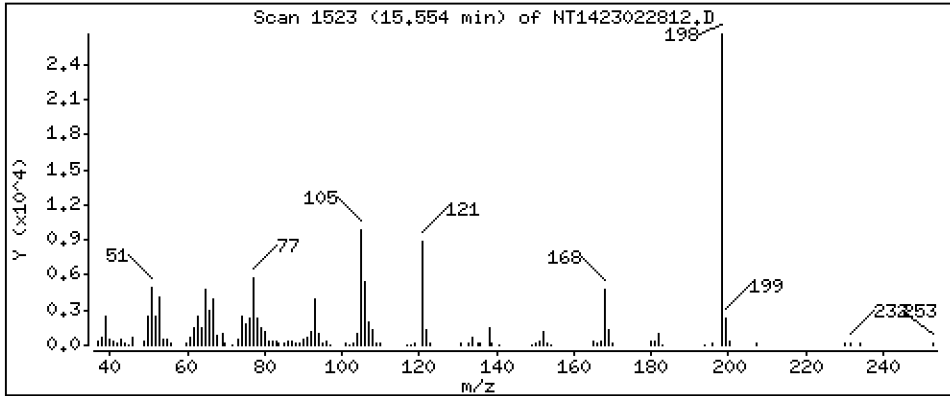
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

53 4,6-Dinitro-2-methylphenol

Concentration: 3,234 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

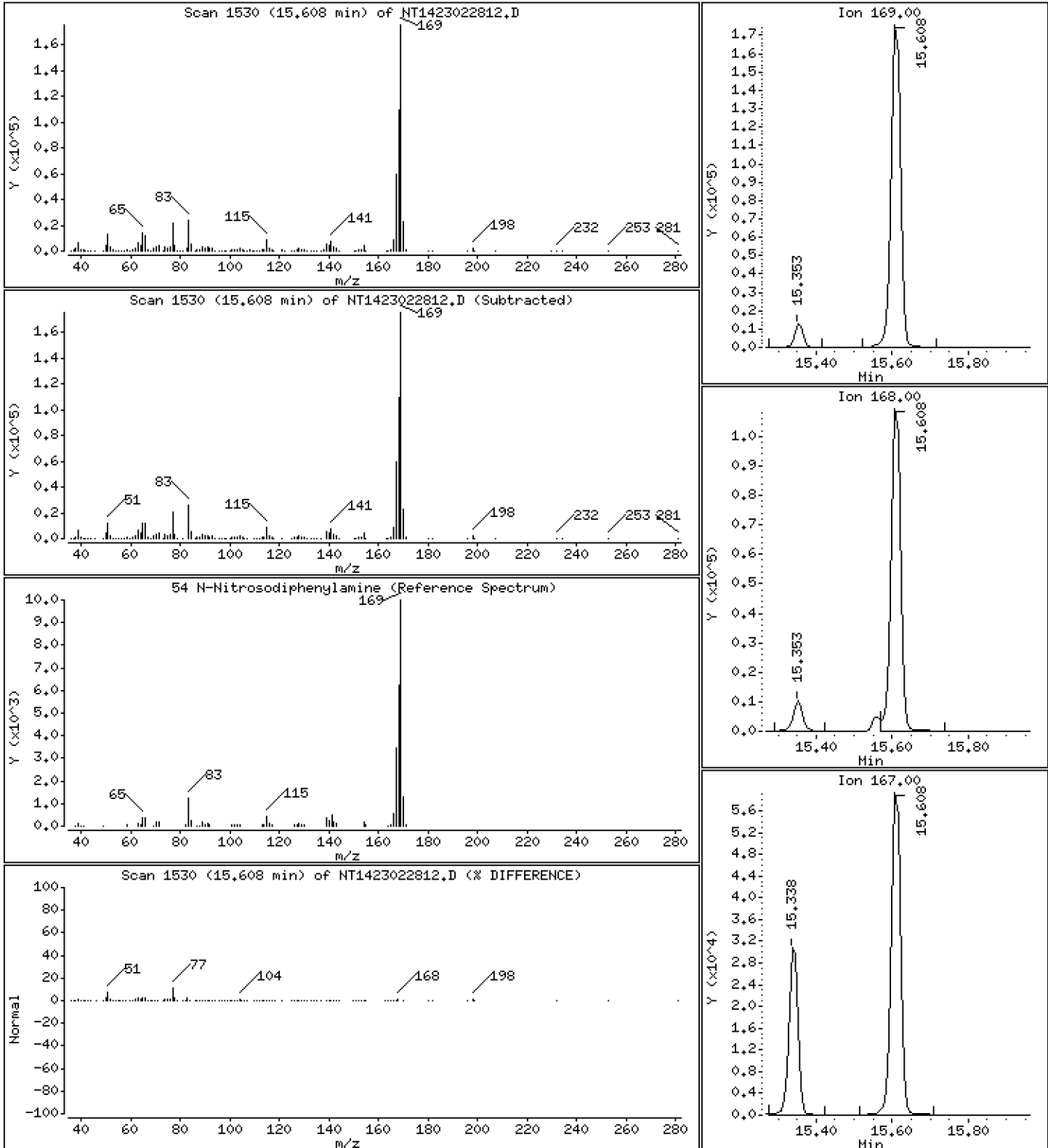
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

54 N-Nitrosodiphenylamine

Concentration: 4,980 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

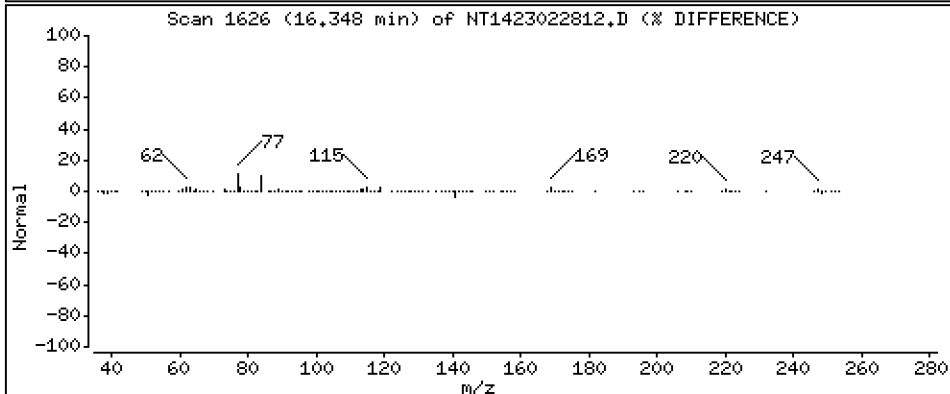
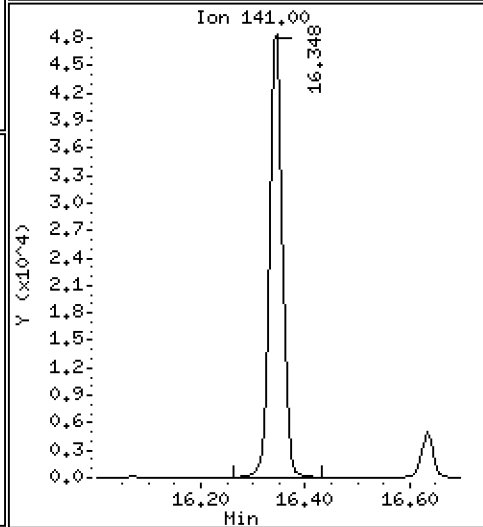
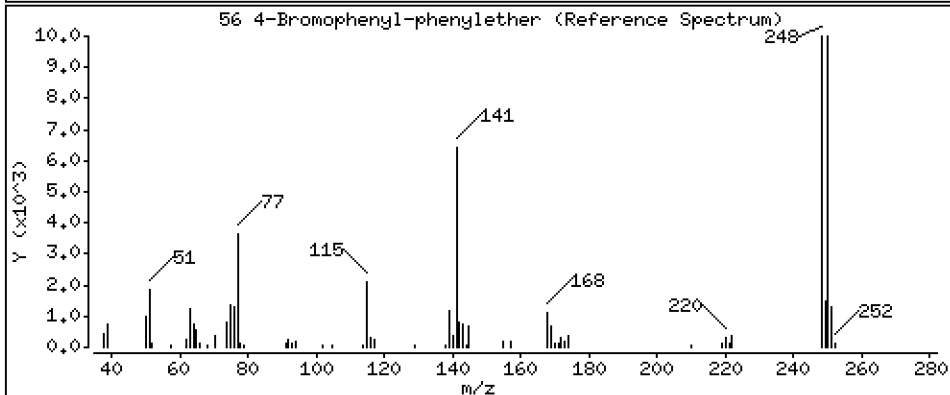
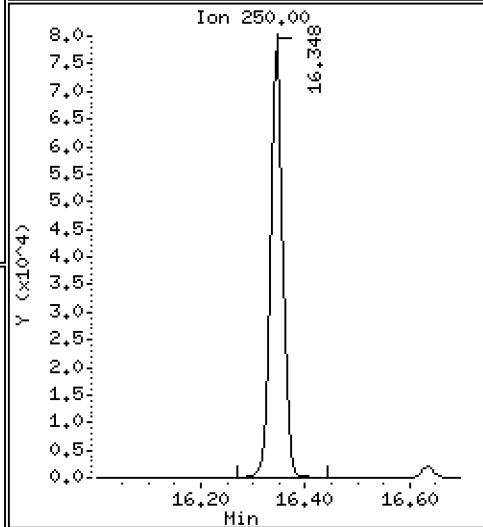
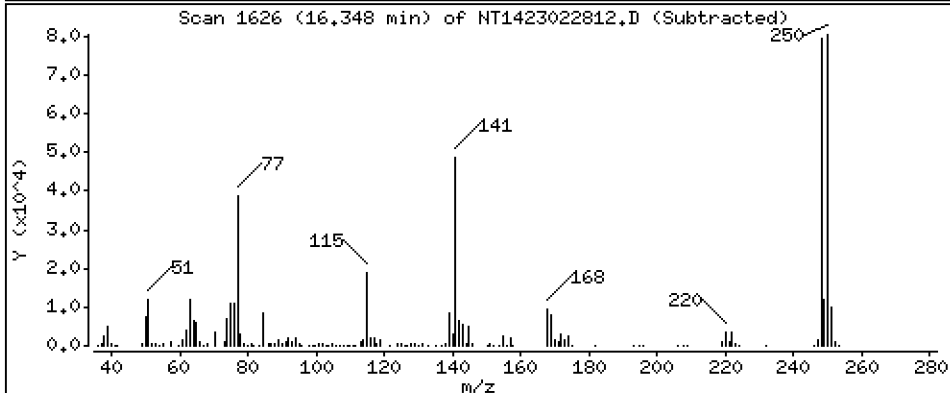
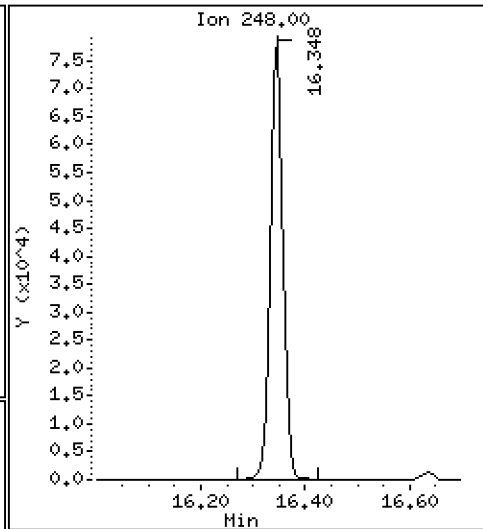
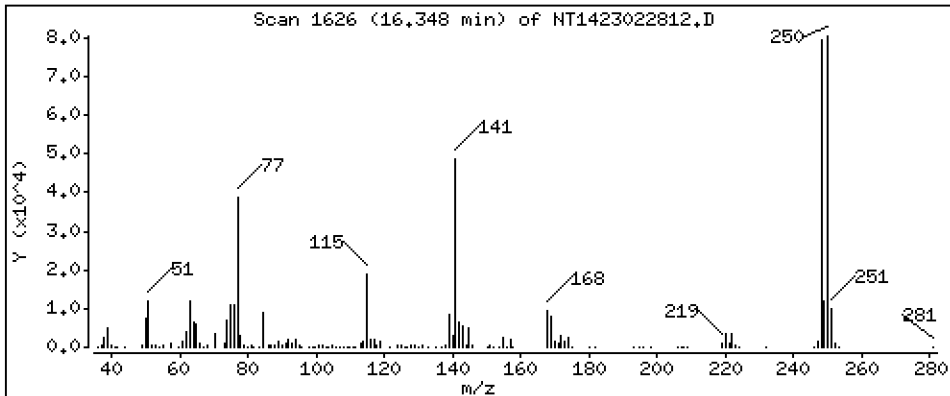
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 5,152 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

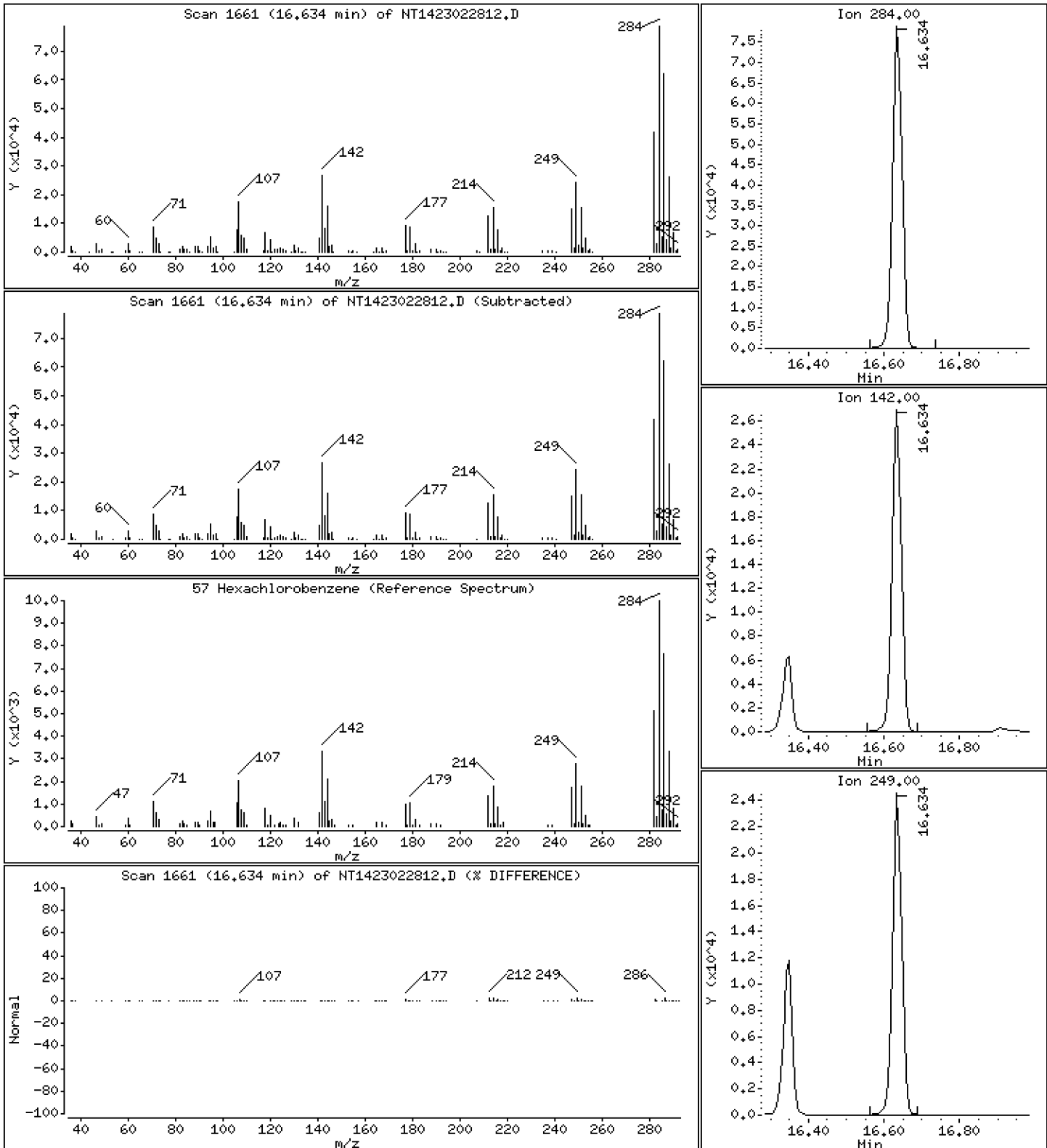
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

57 Hexachlorobenzene

Concentration: 4.790 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

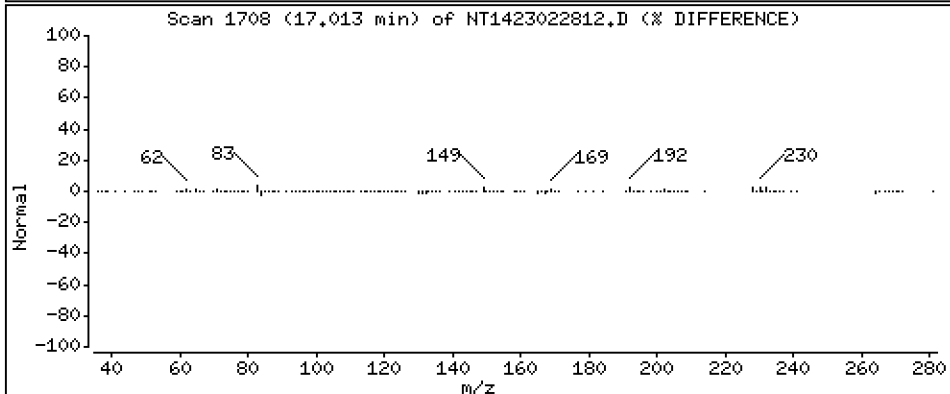
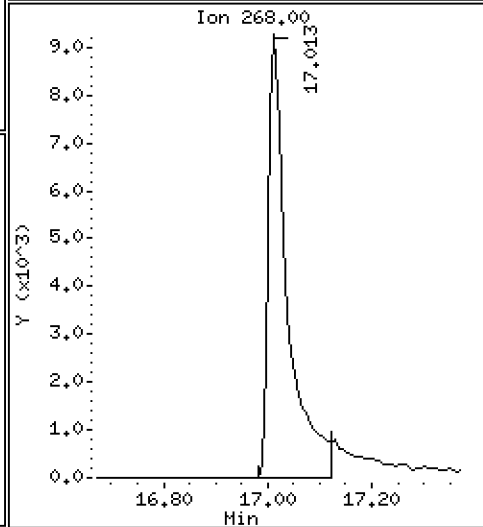
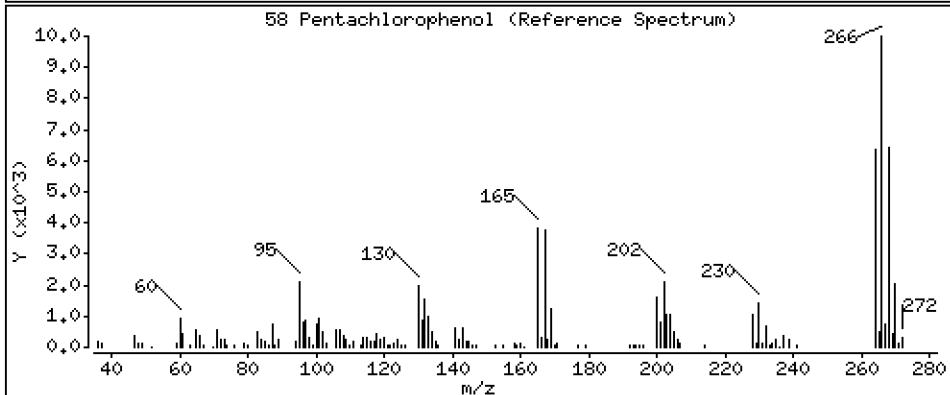
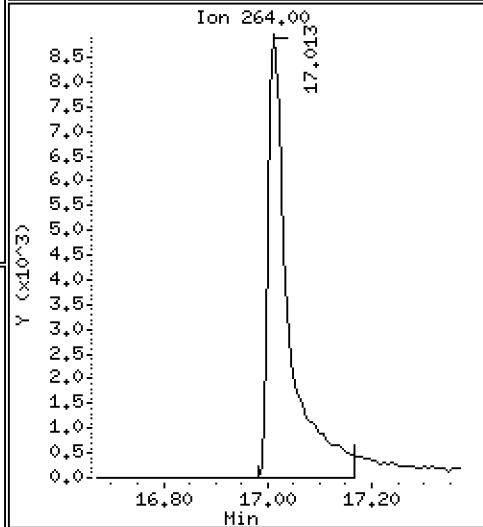
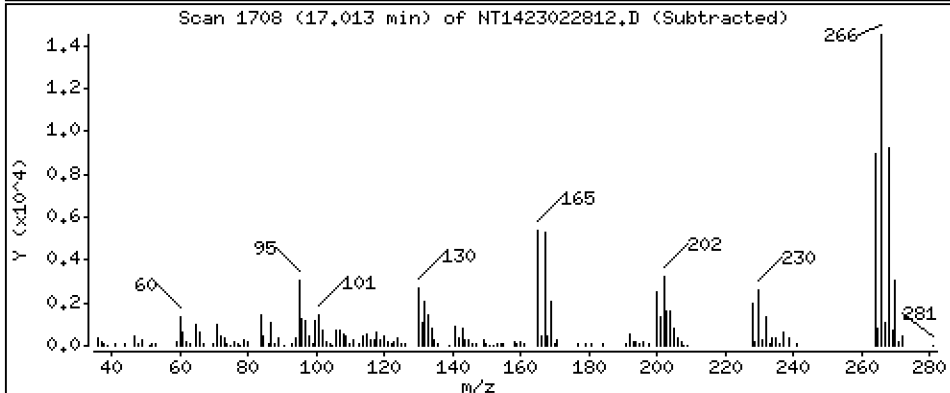
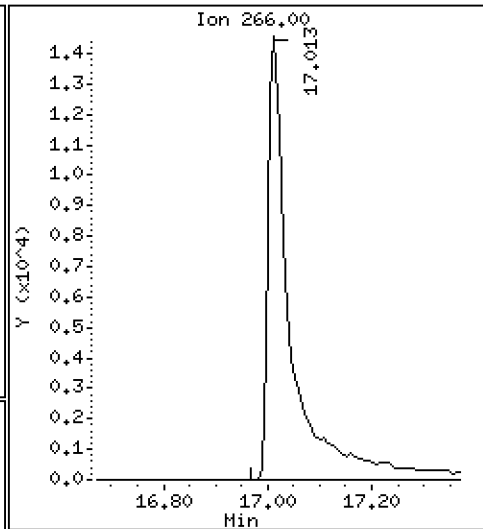
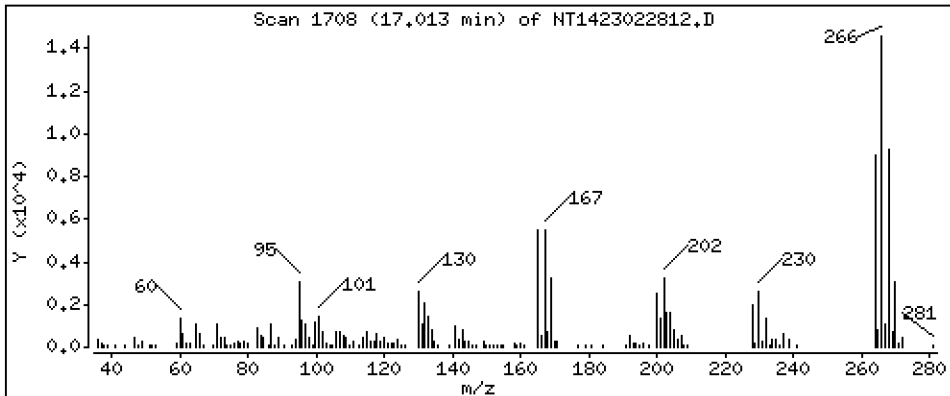
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 3,524 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

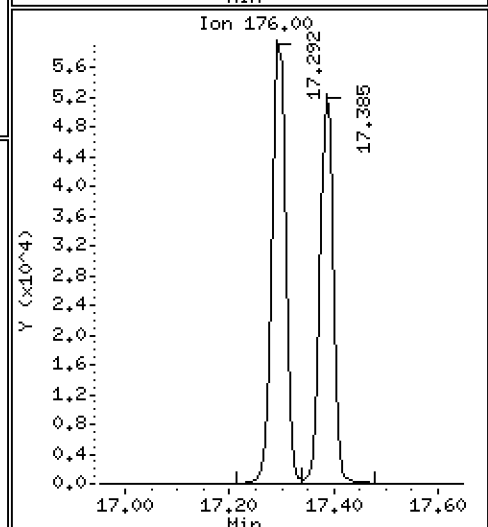
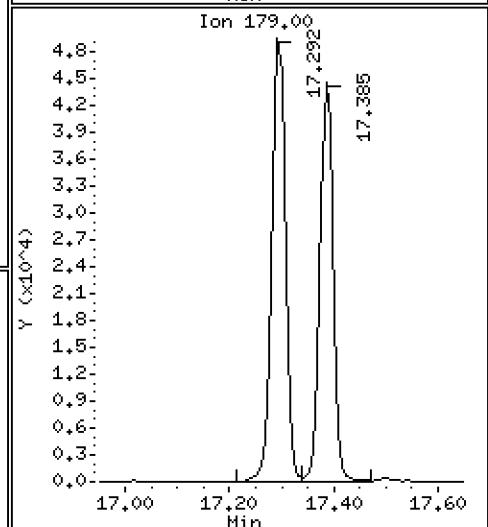
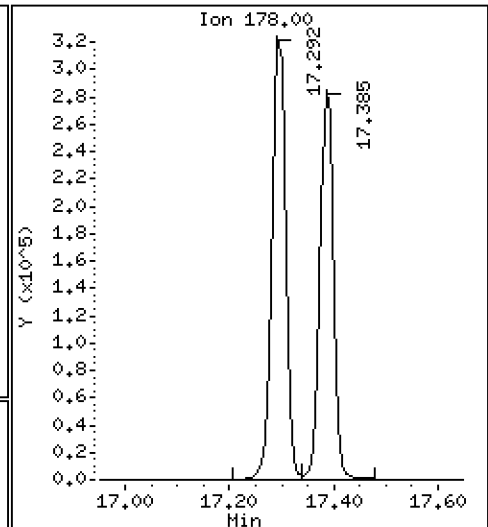
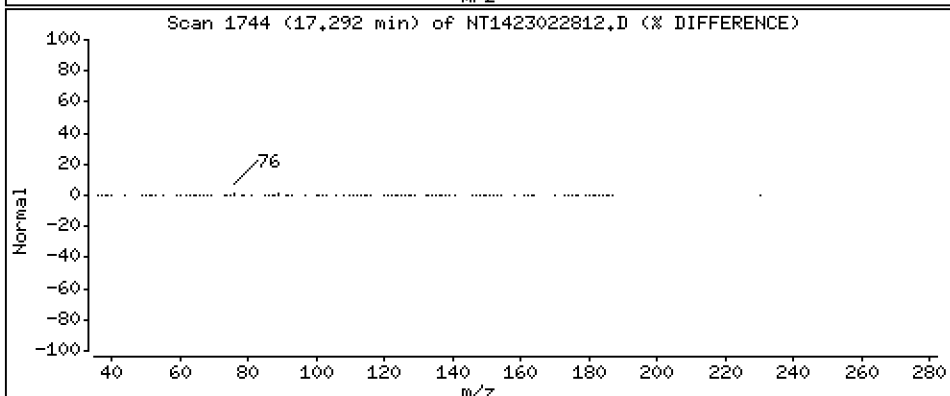
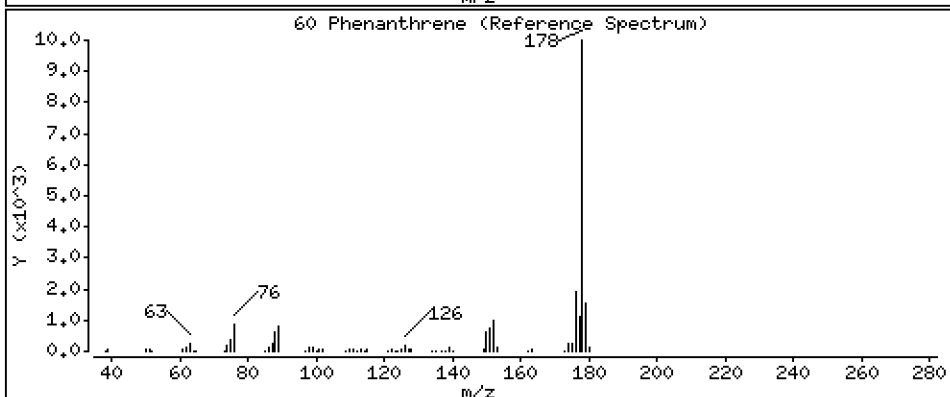
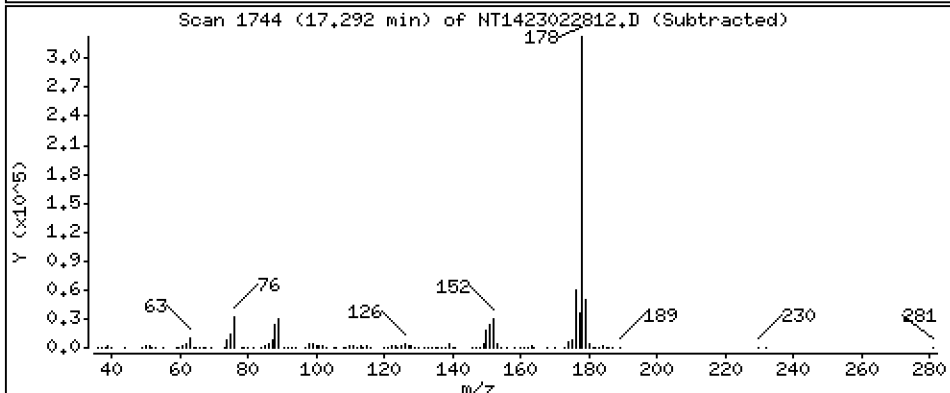
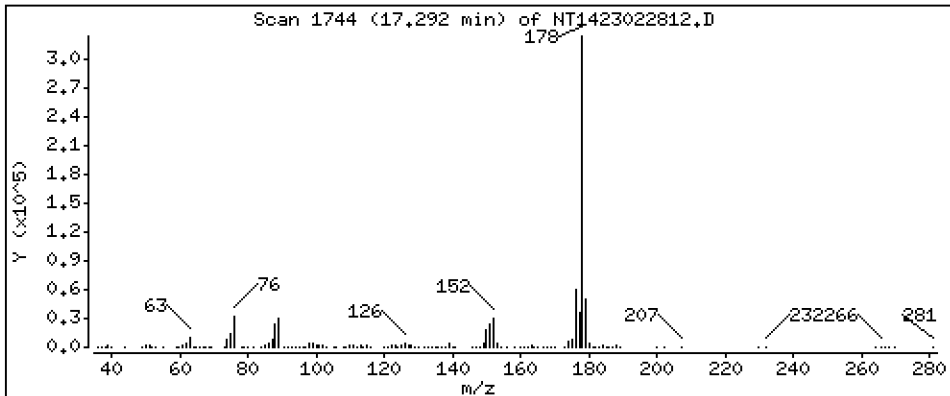
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 4,615 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

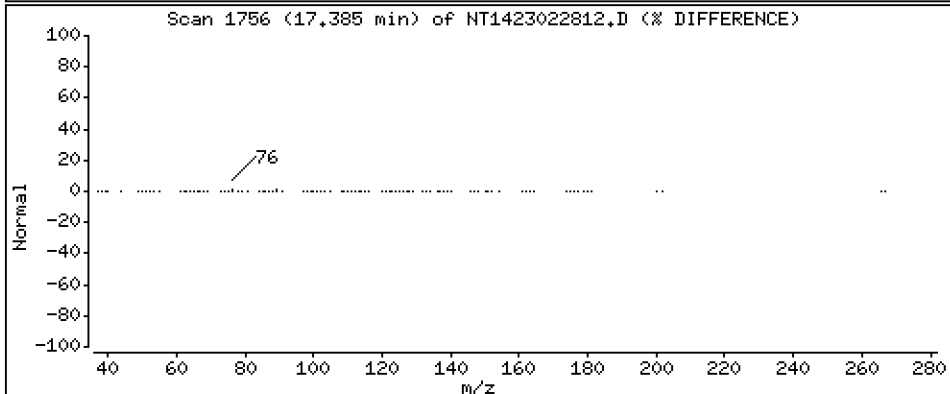
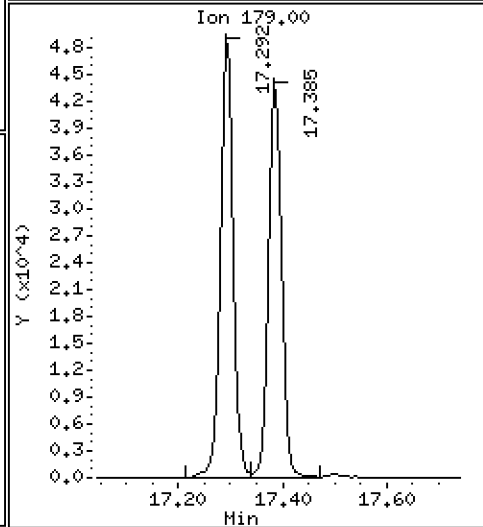
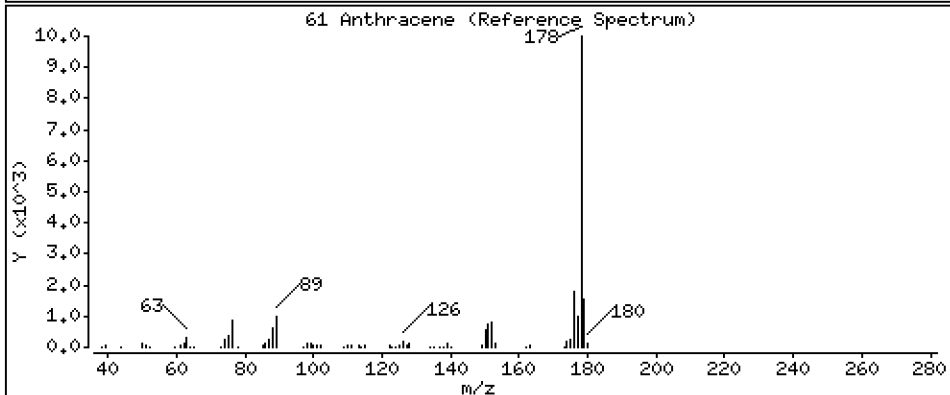
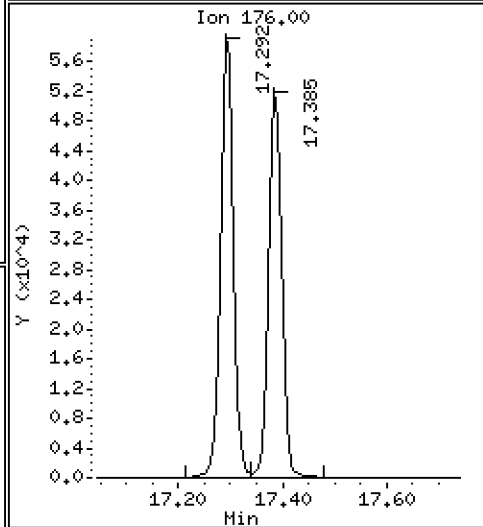
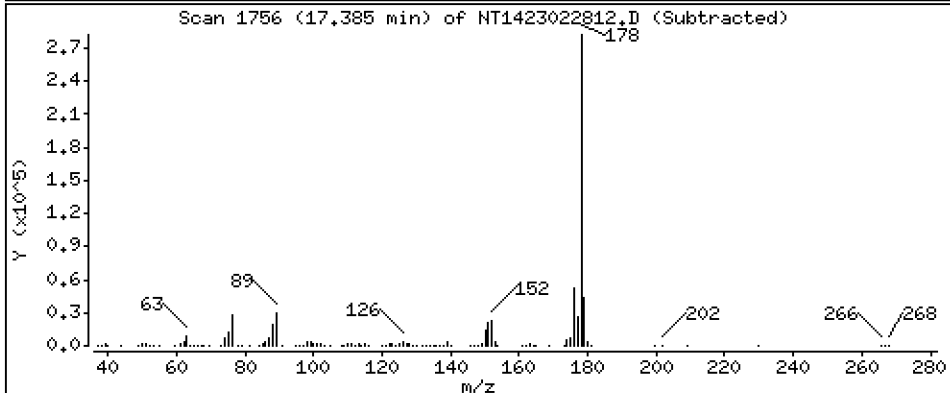
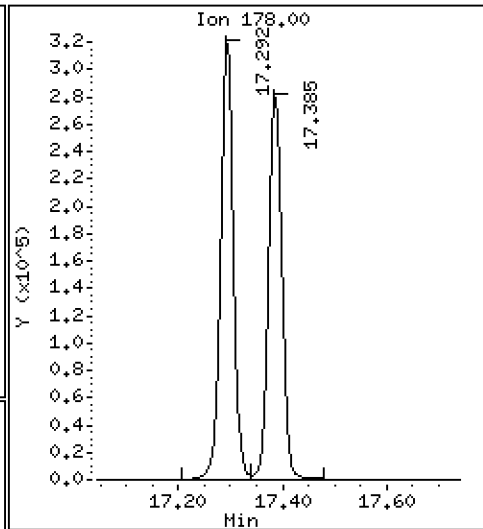
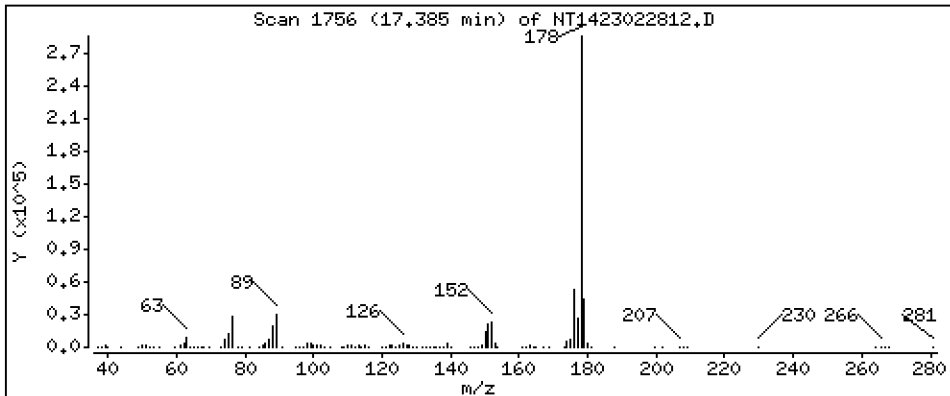
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 4,224 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

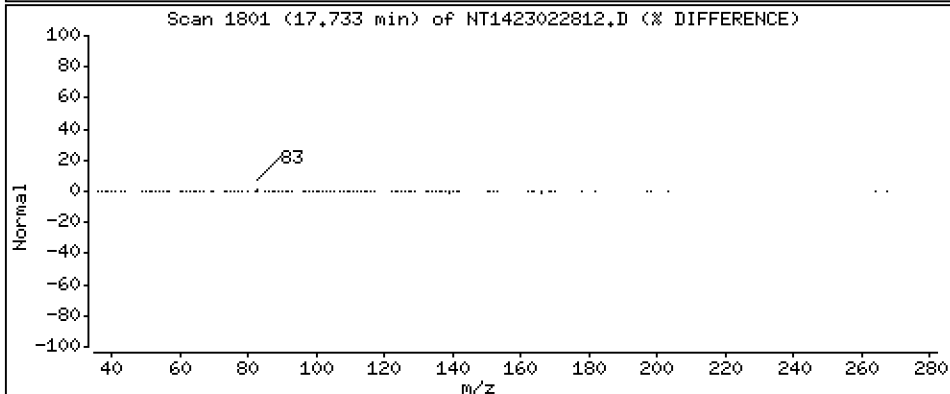
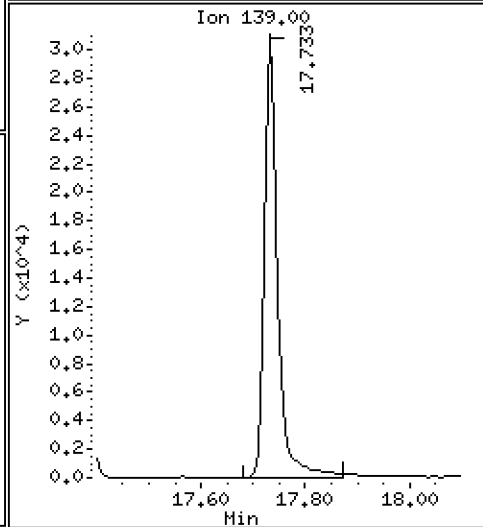
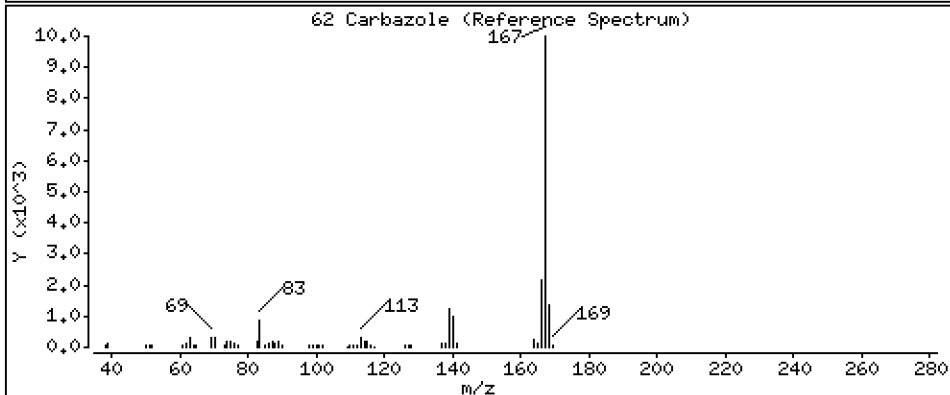
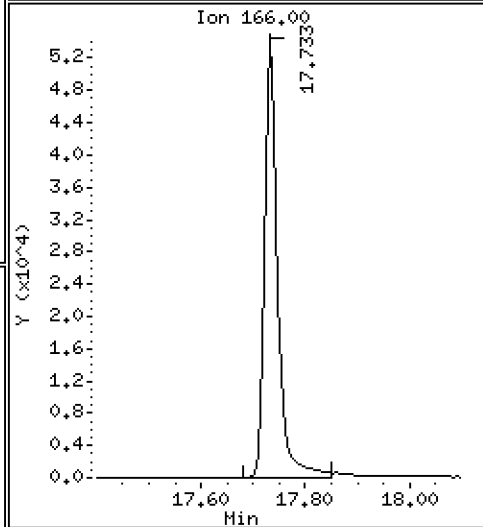
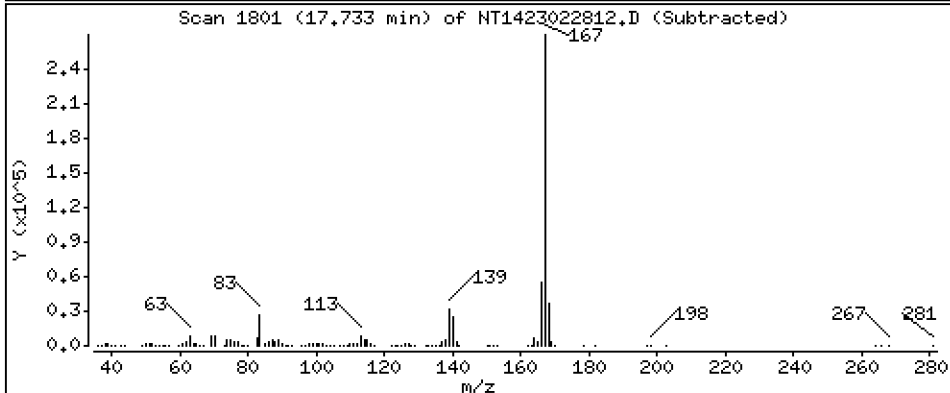
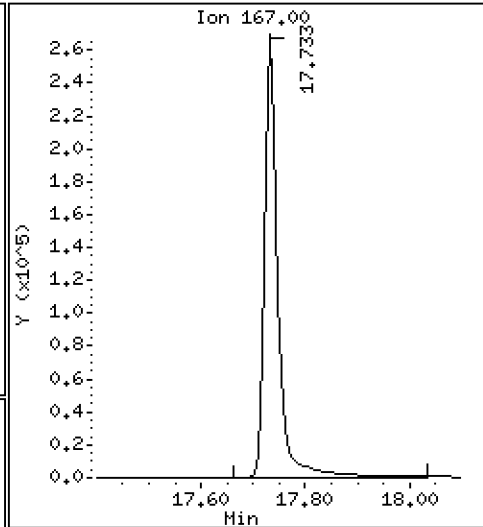
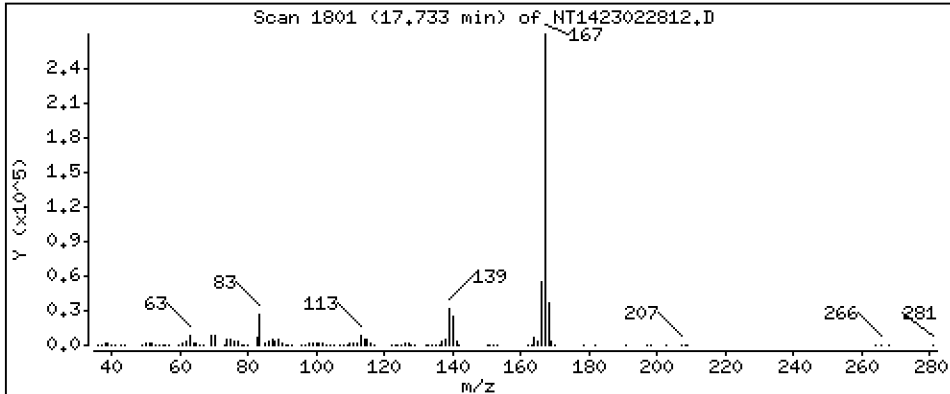
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 4,776 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

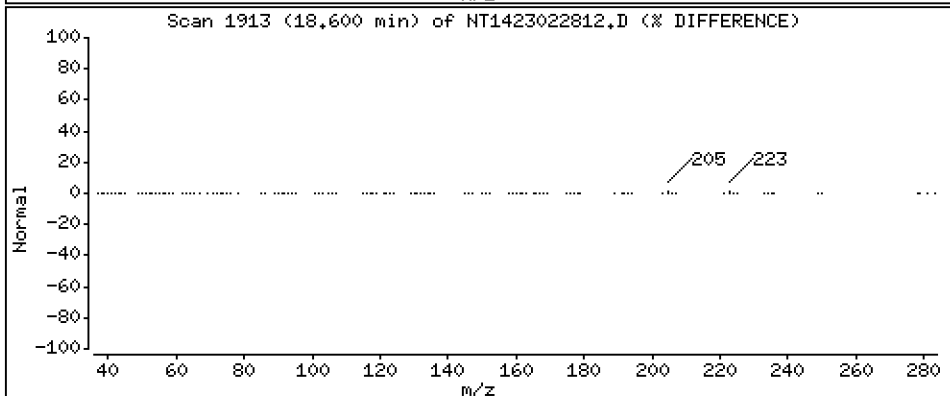
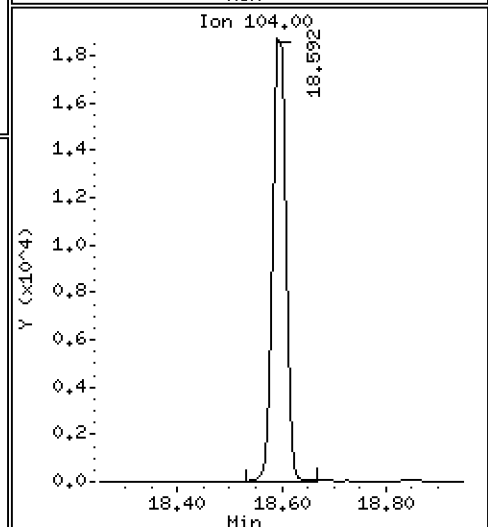
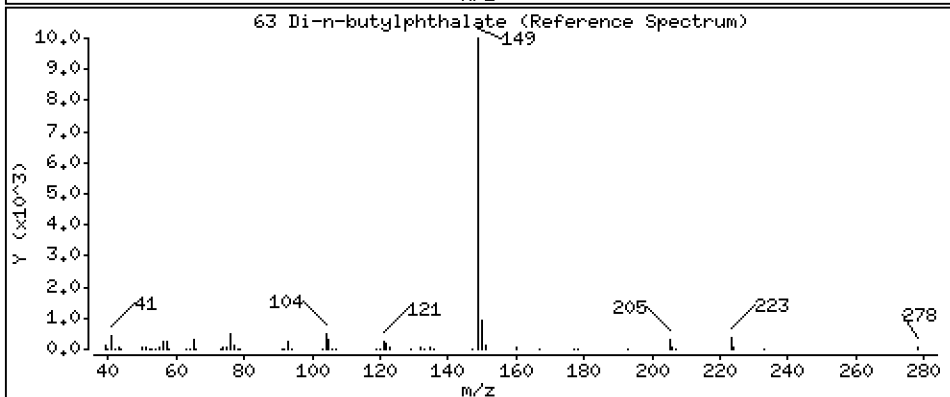
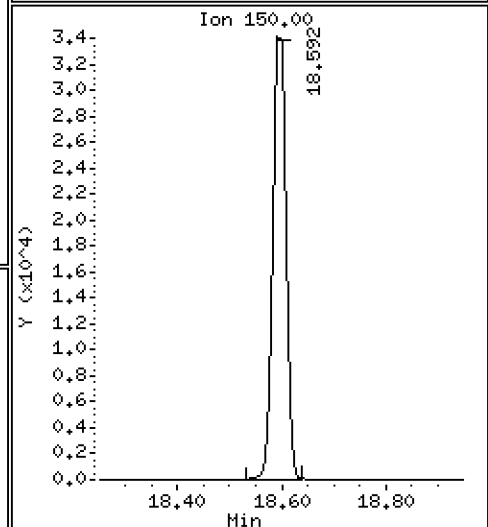
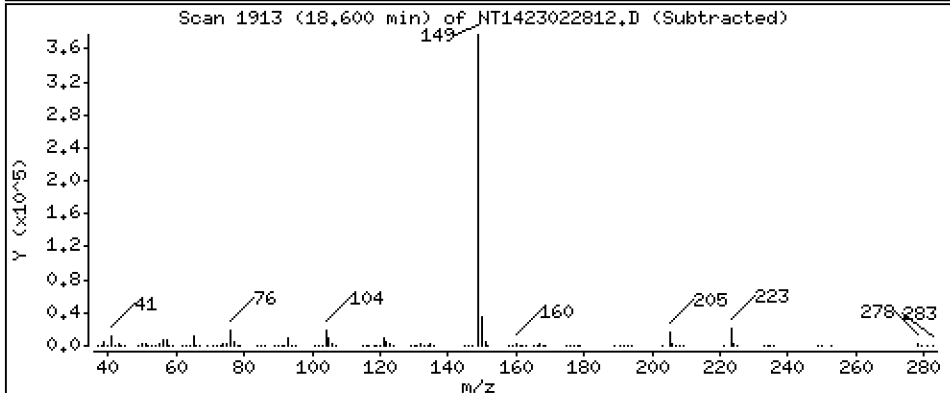
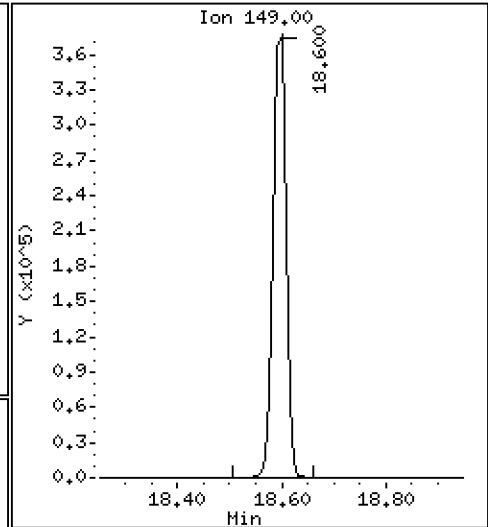
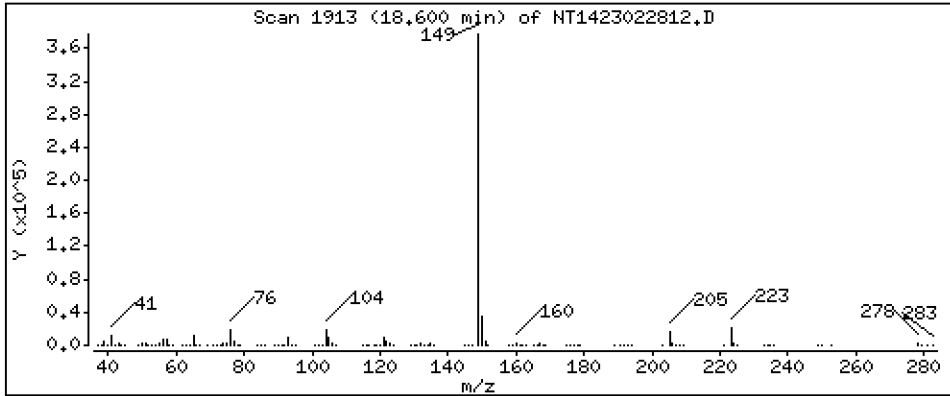
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 4,819 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

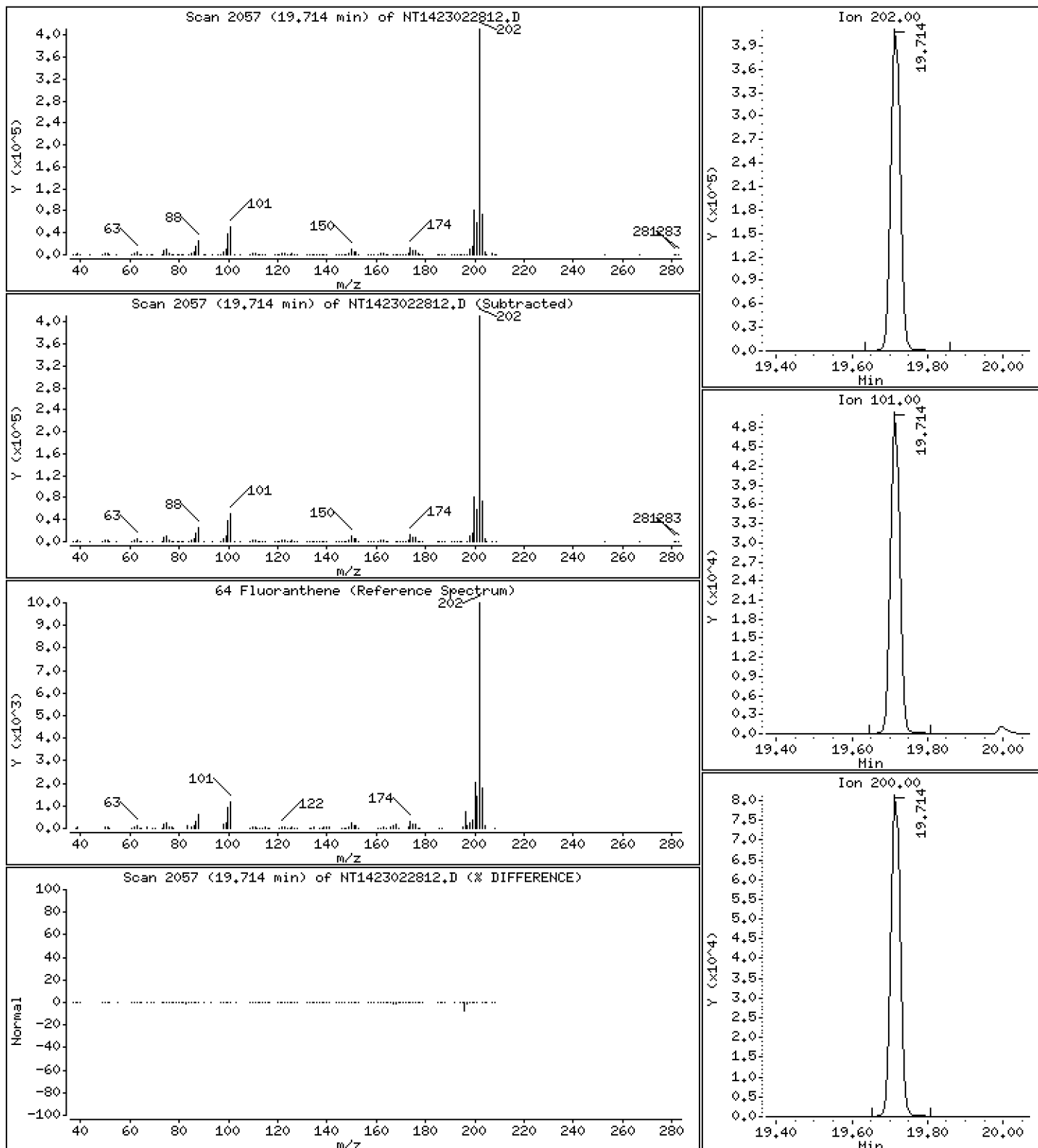
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 5,104 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

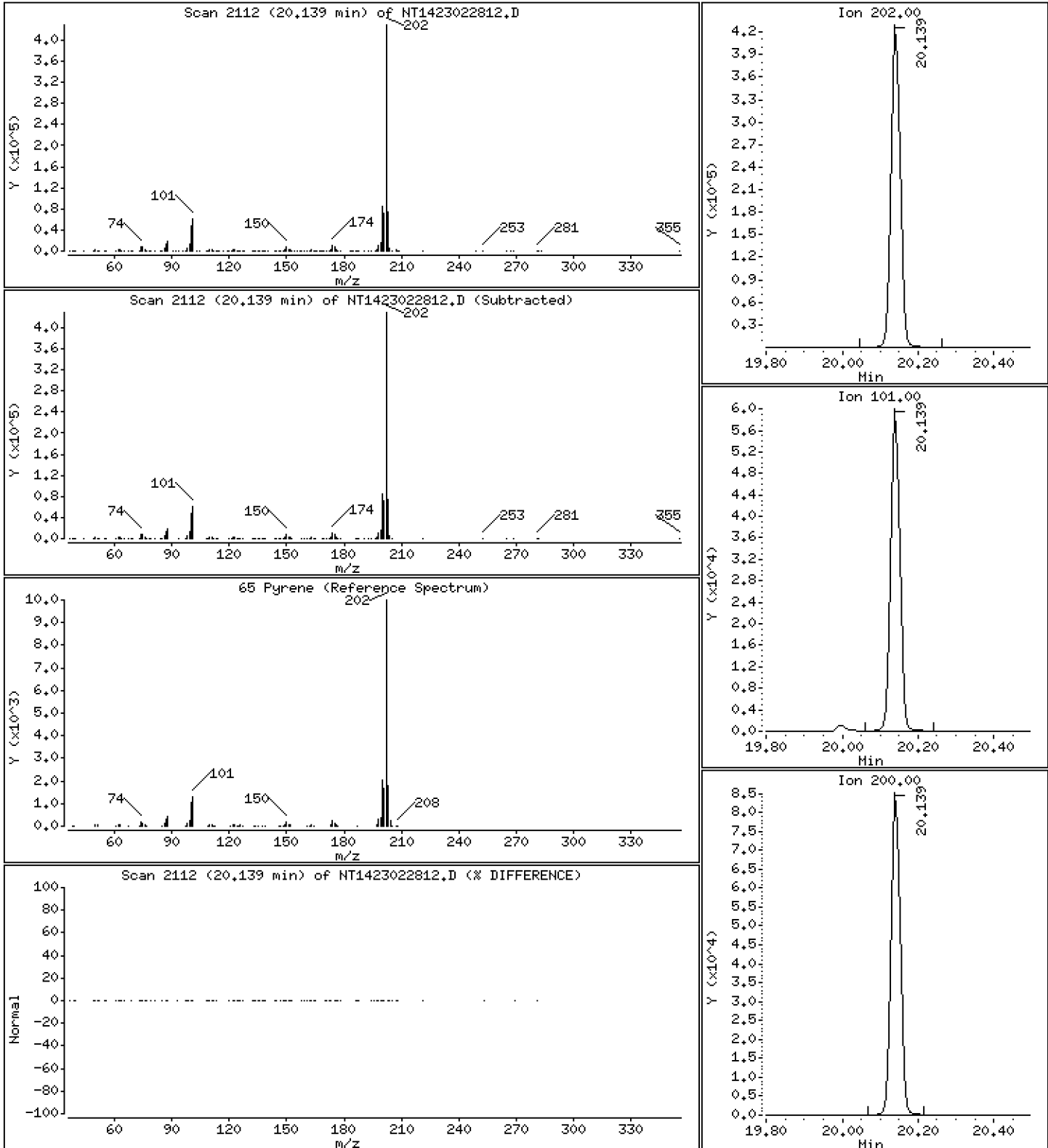
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 4,957 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

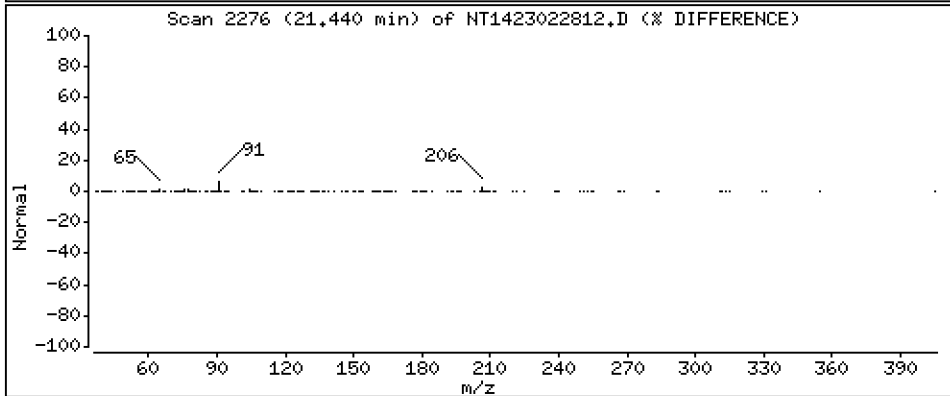
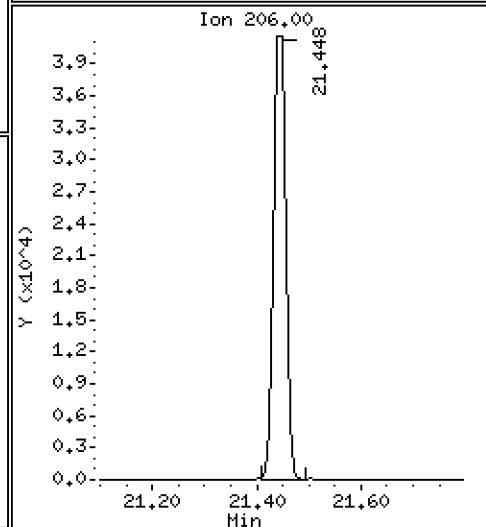
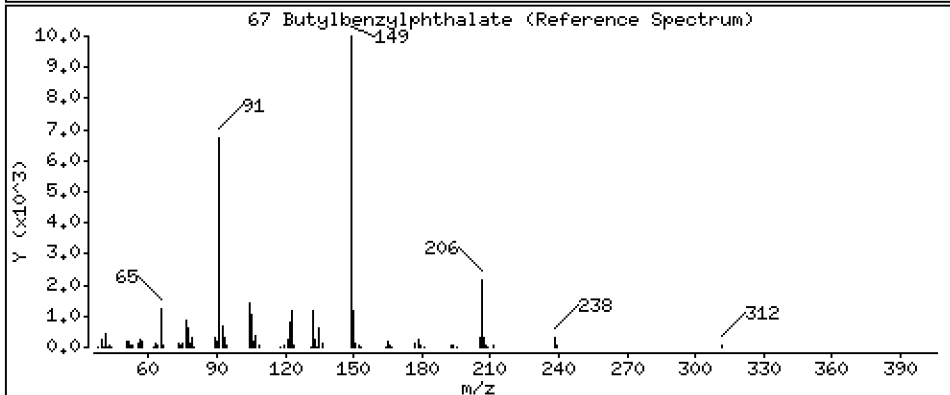
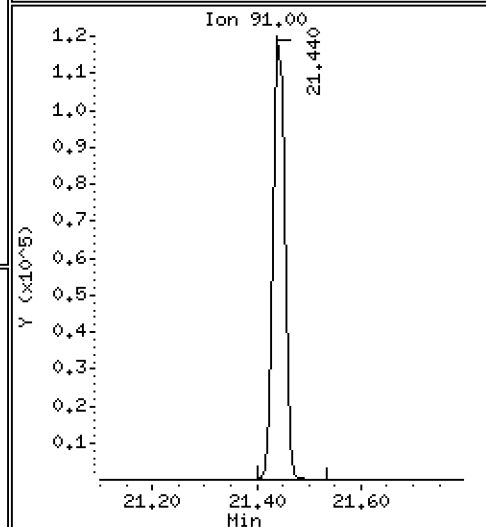
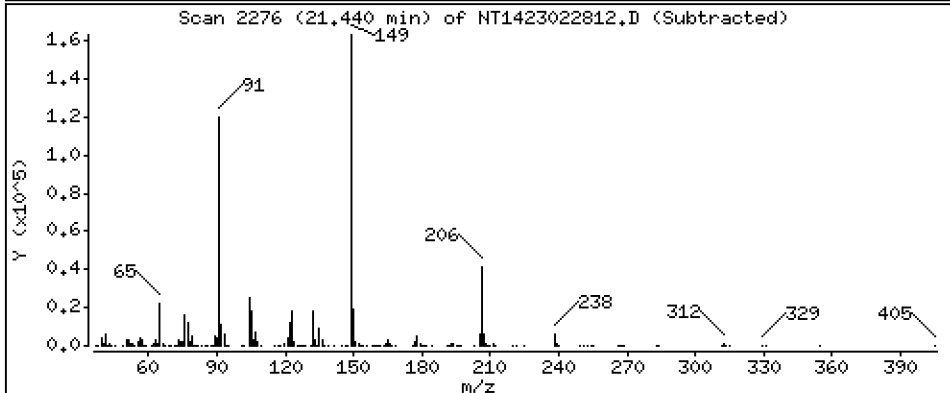
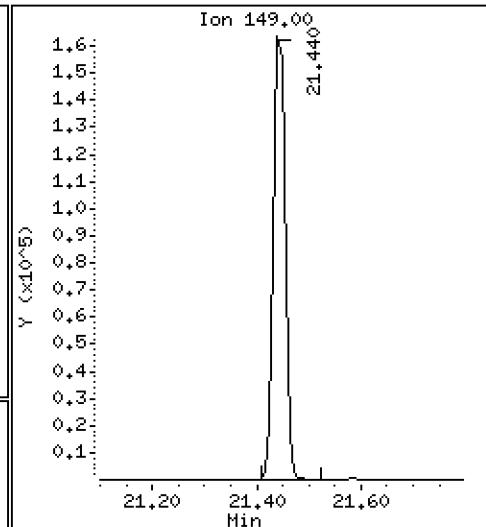
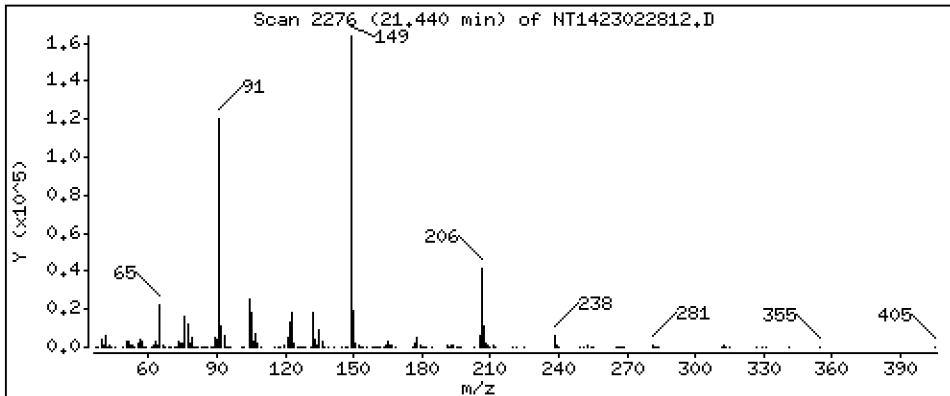
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 4,965 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

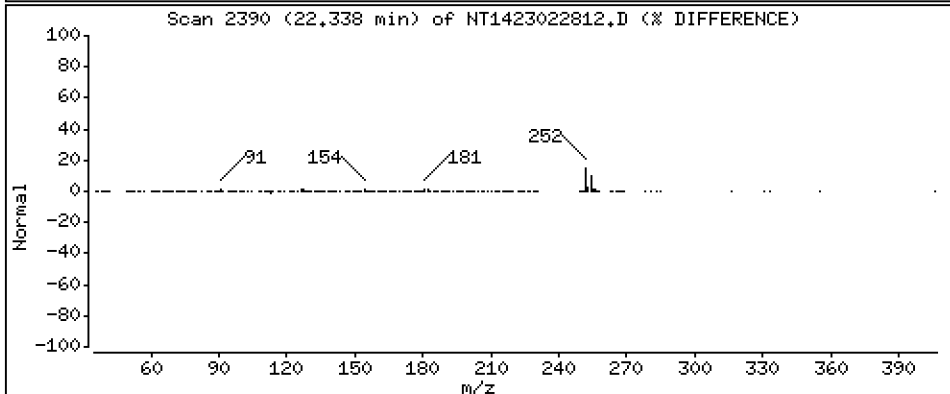
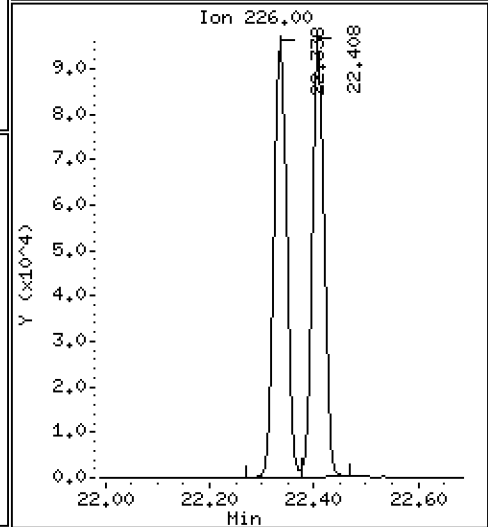
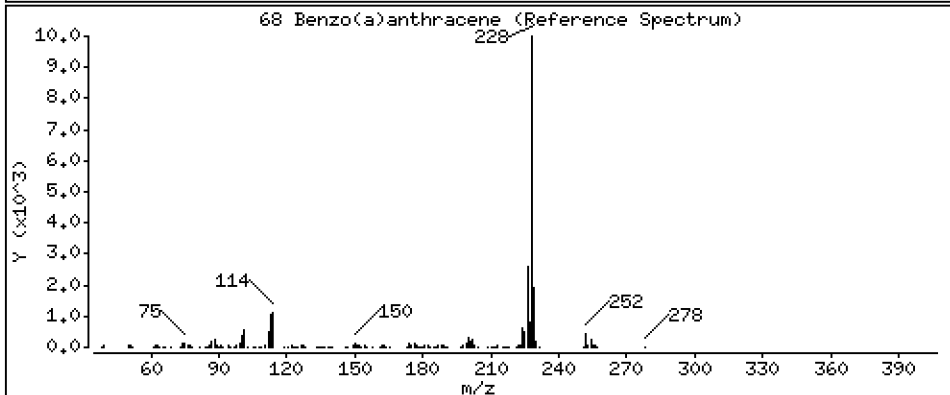
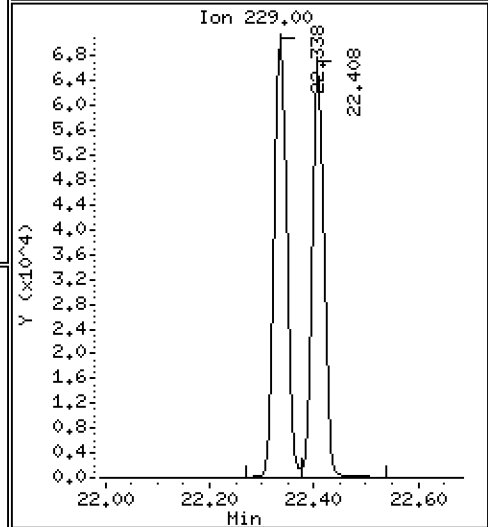
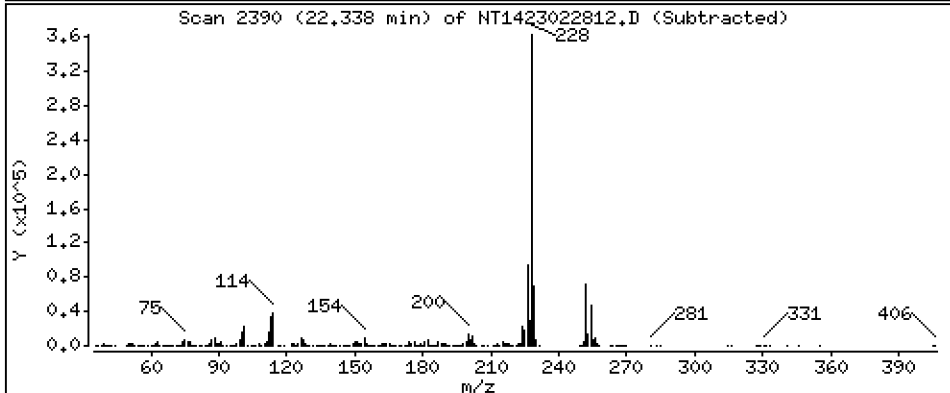
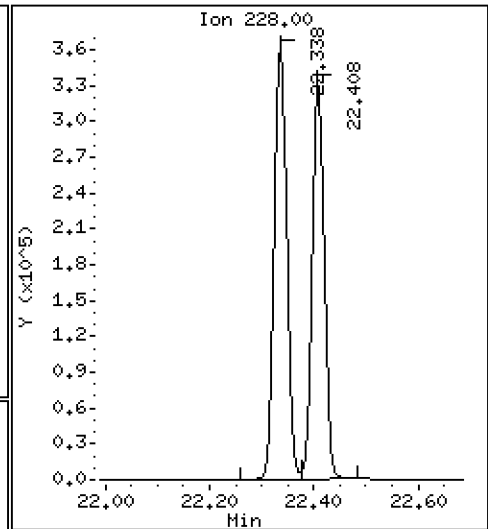
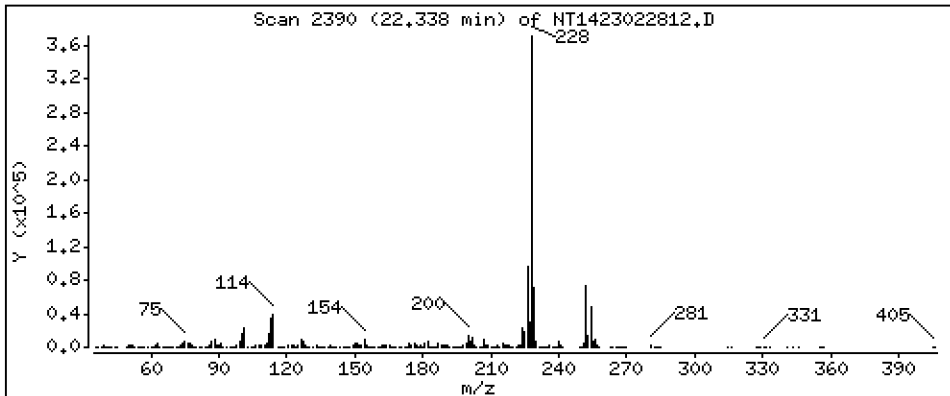
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 4,917 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

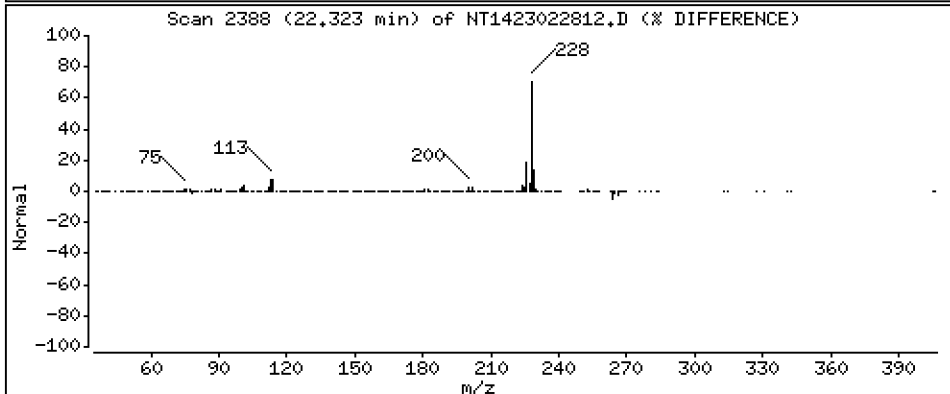
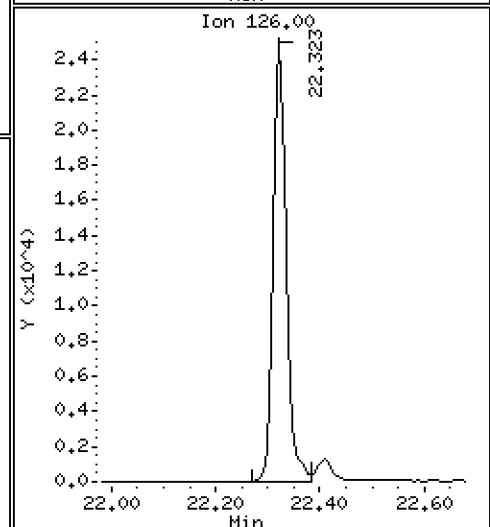
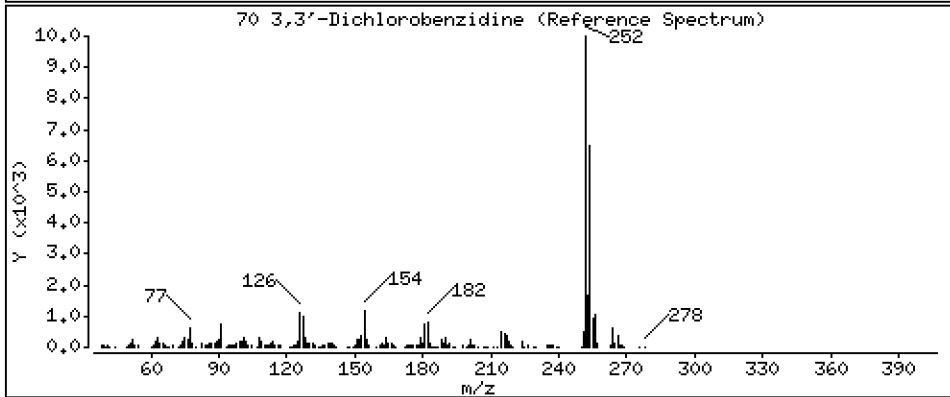
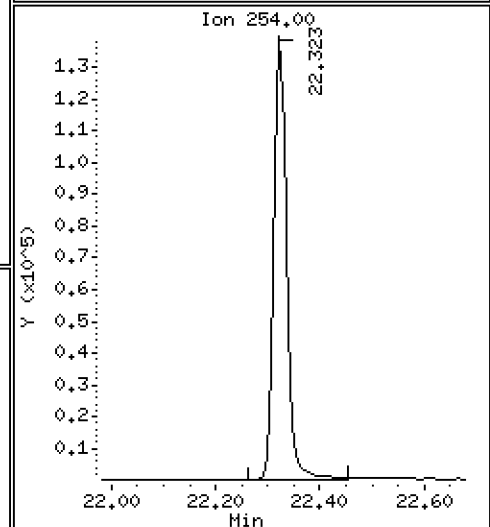
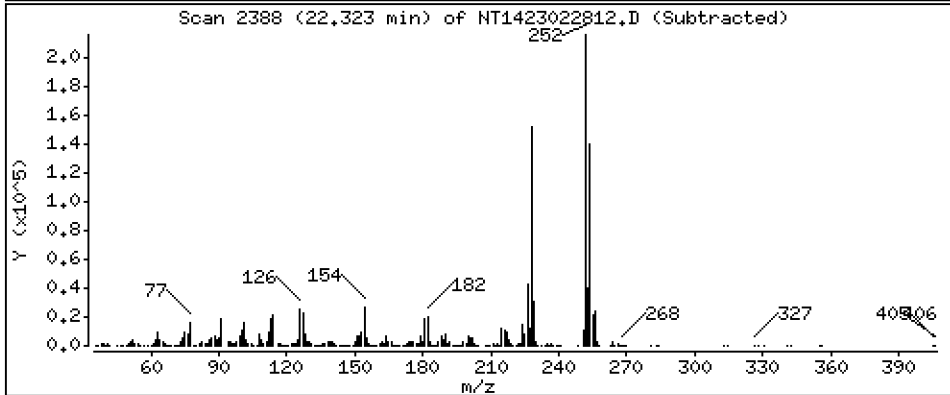
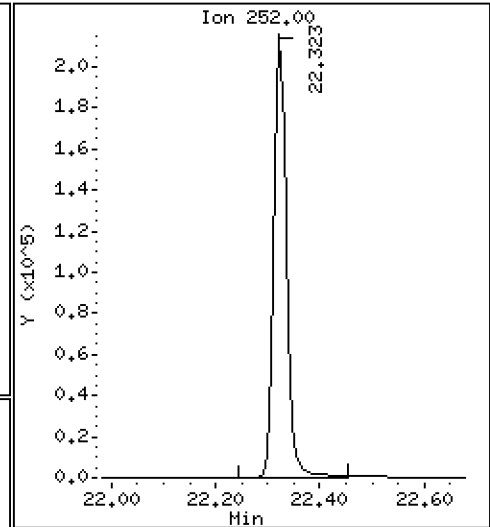
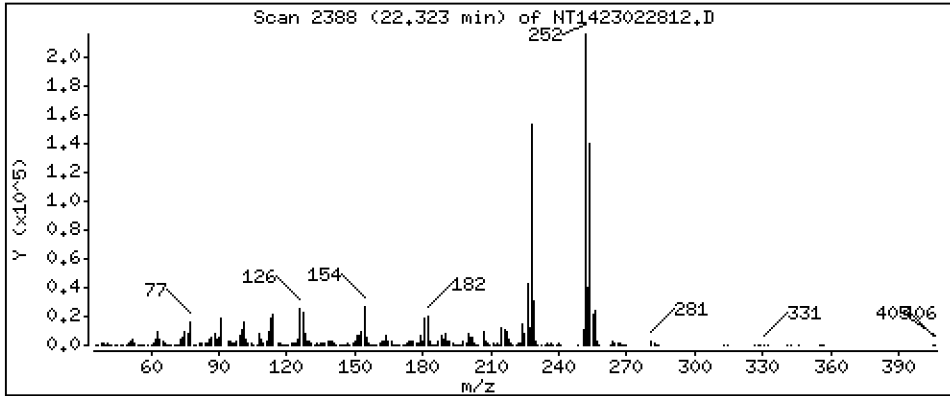
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

70 3,3'-Dichlorobenzidine

Concentration: 10,29 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

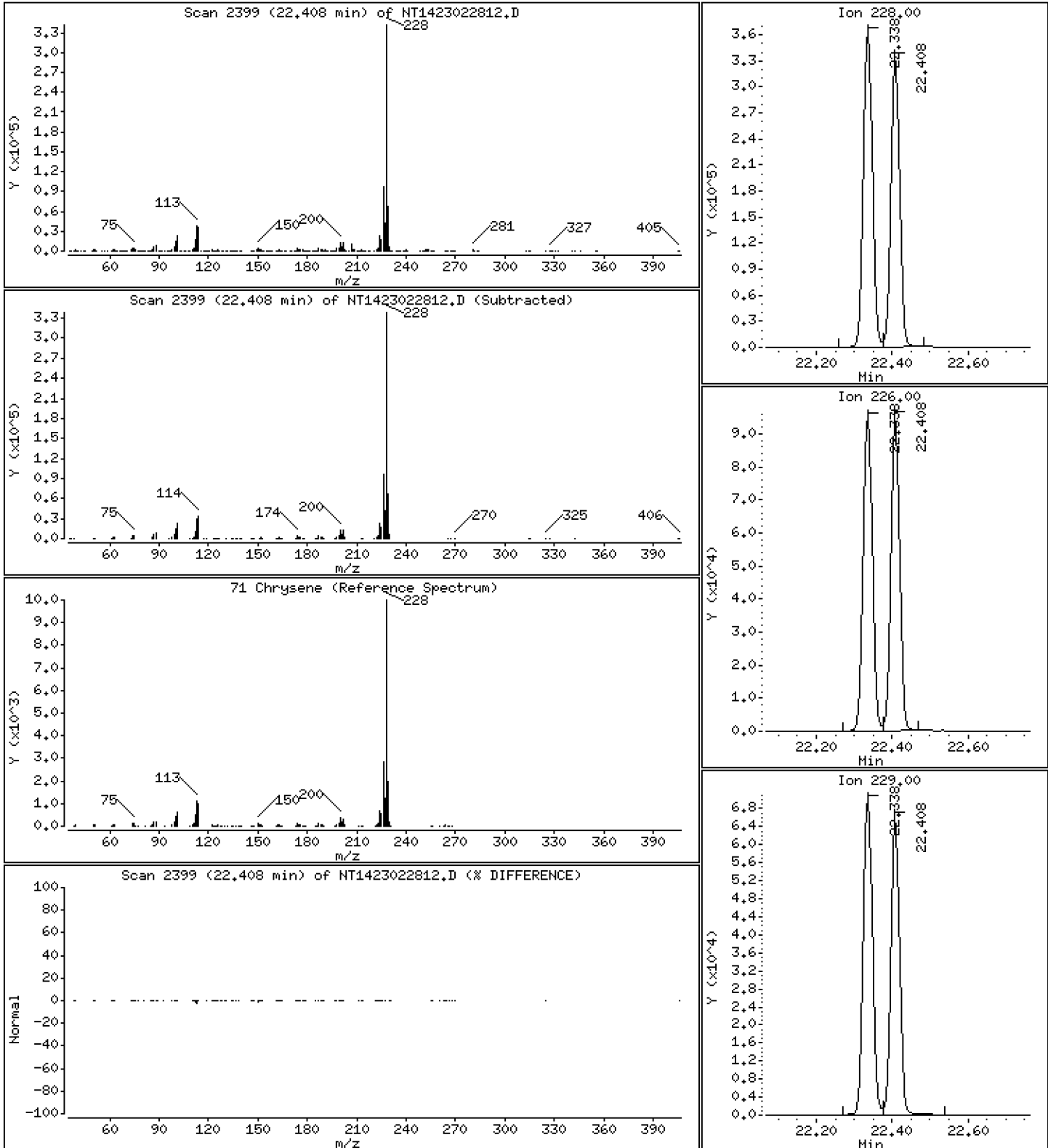
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 4,556 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

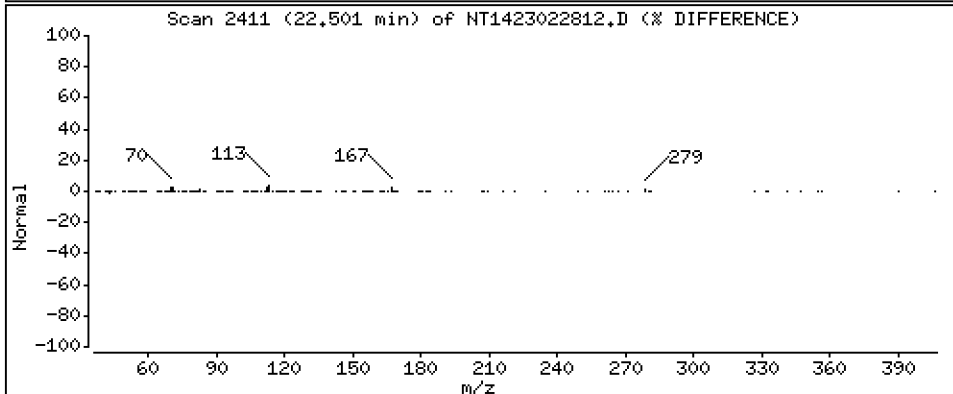
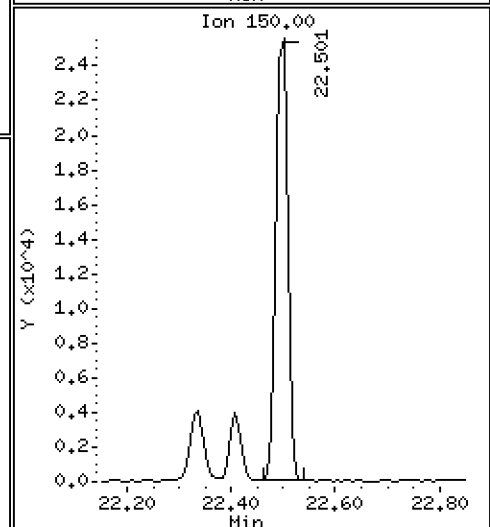
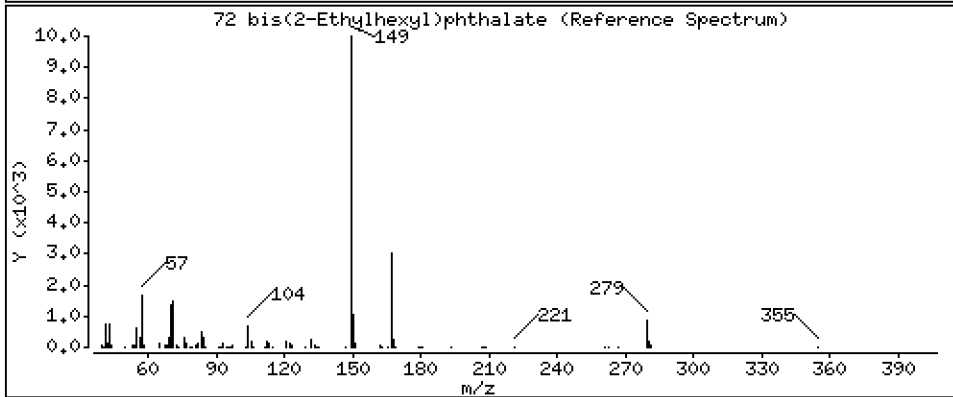
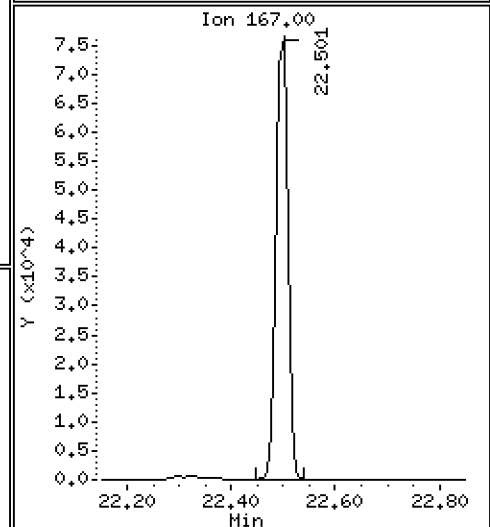
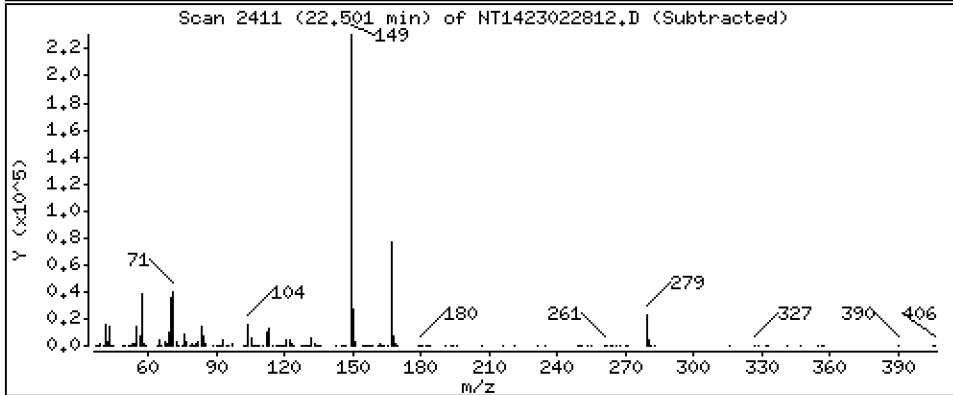
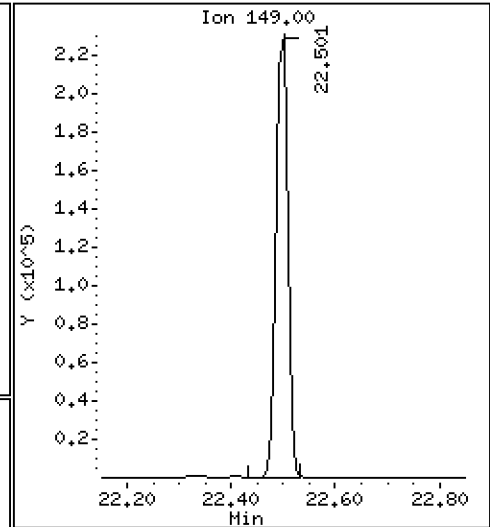
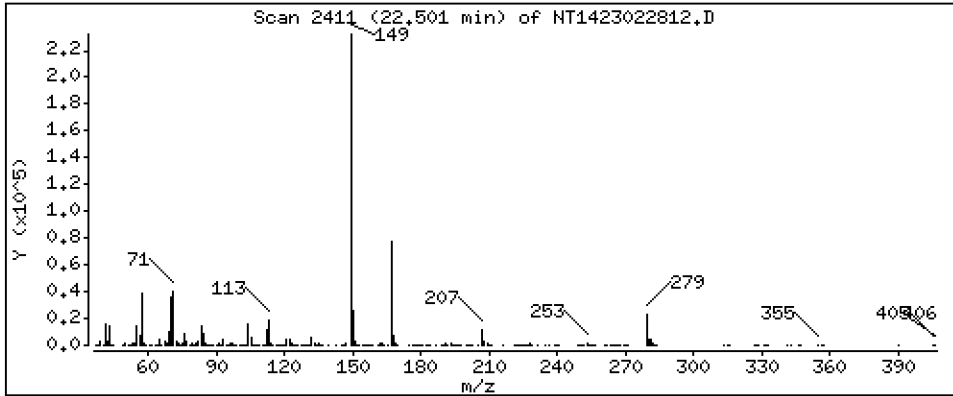
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 5,277 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

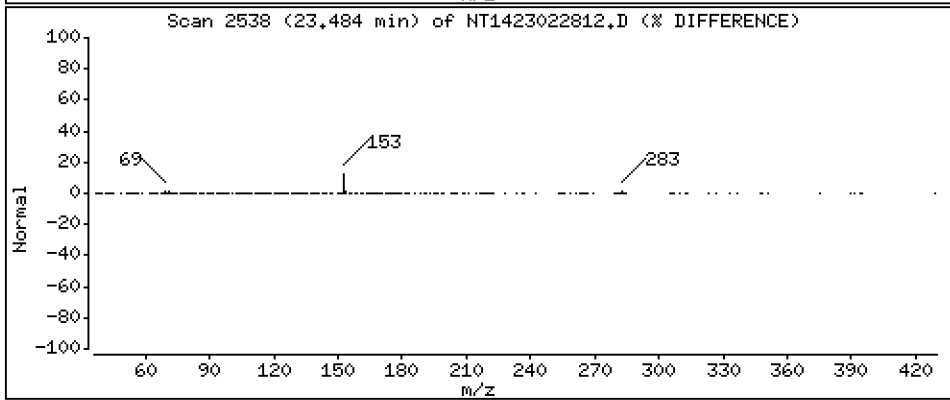
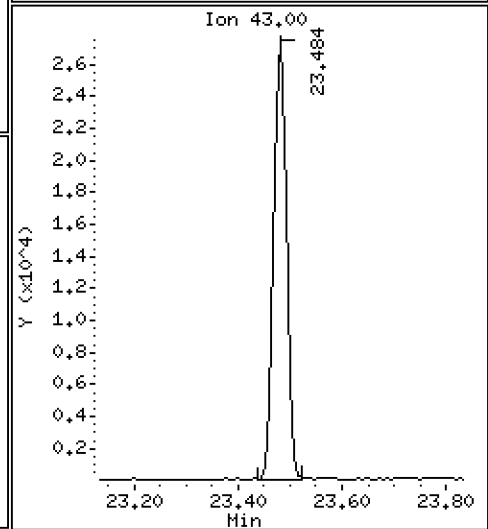
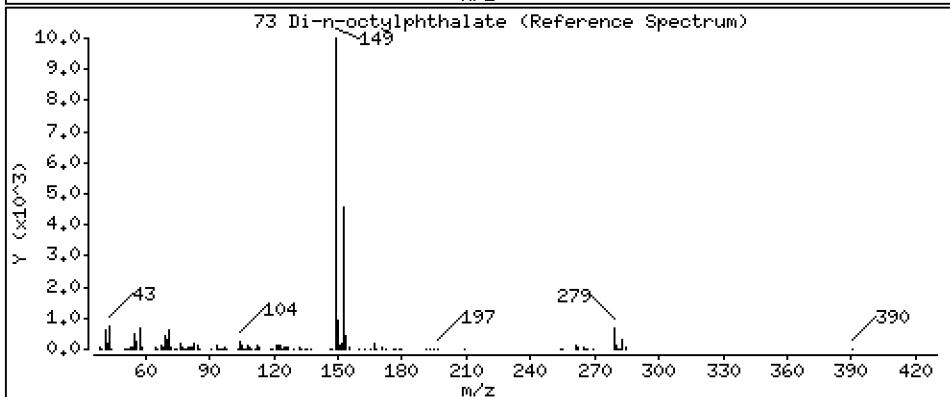
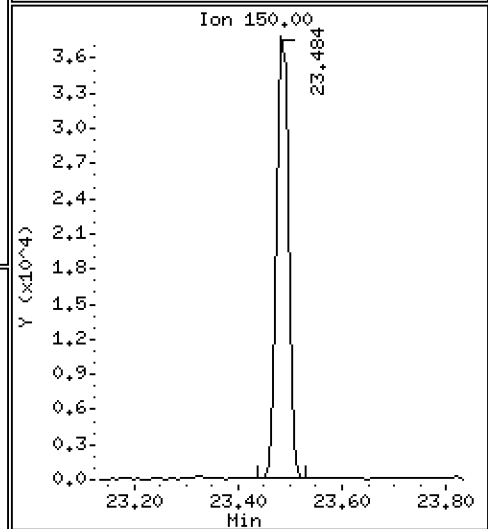
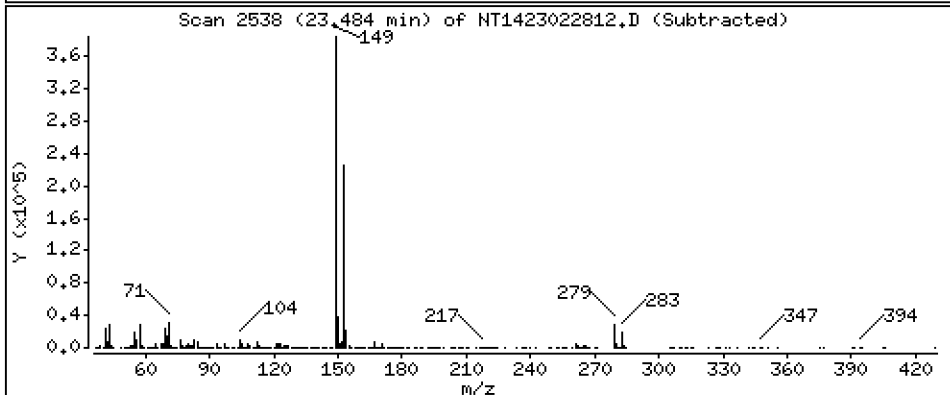
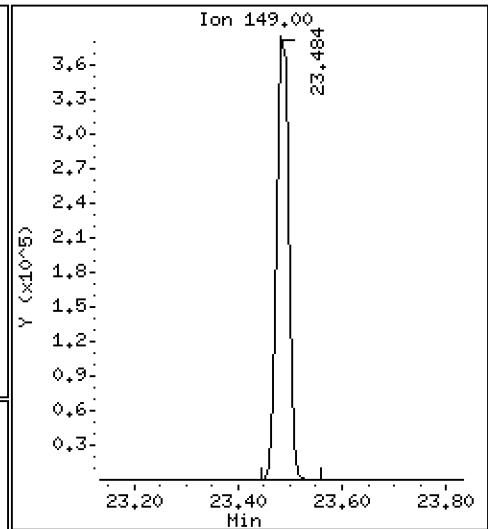
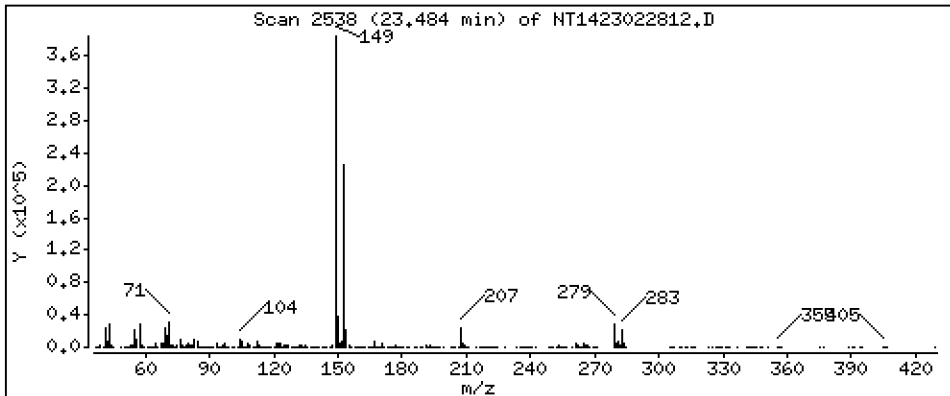
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 5,183 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

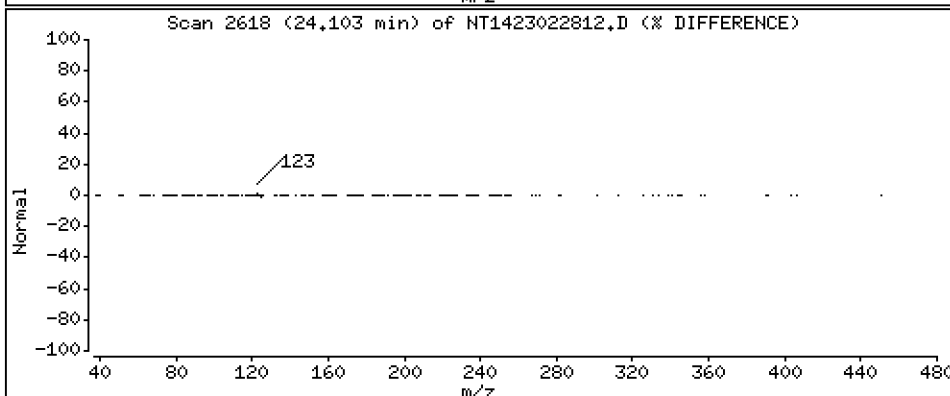
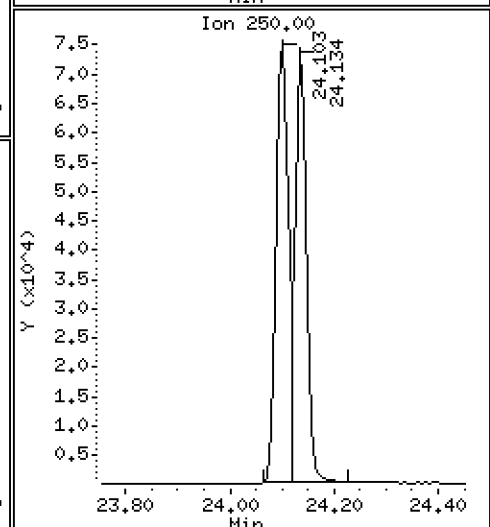
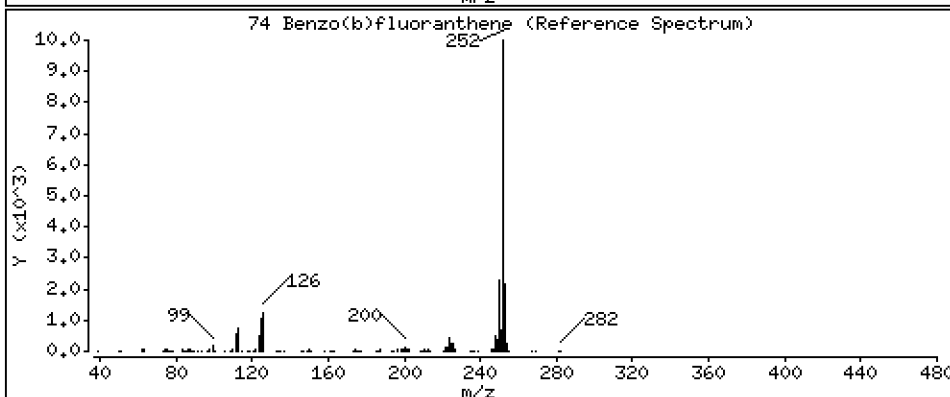
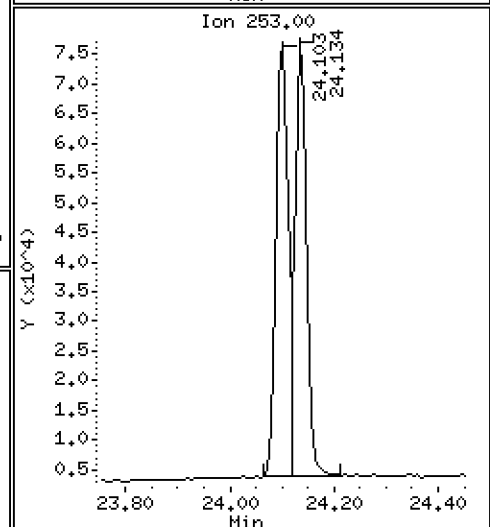
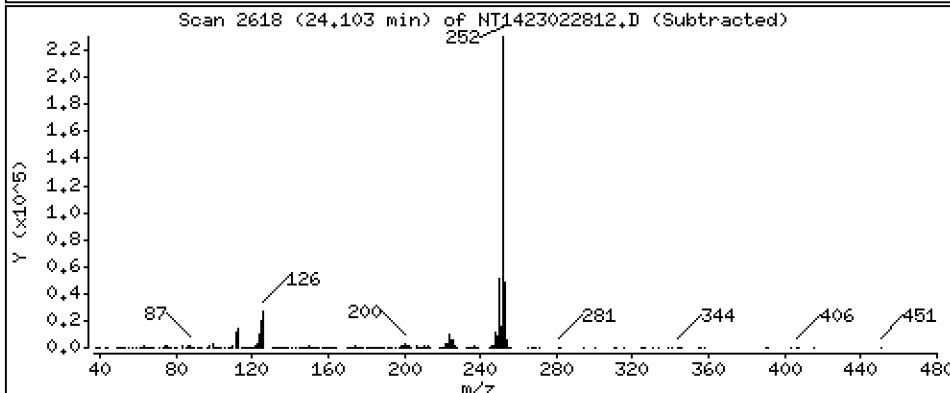
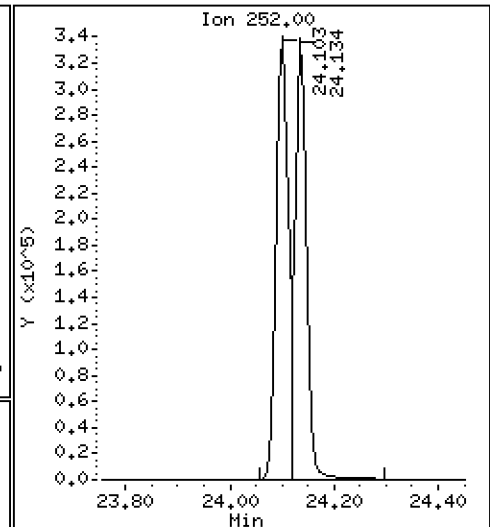
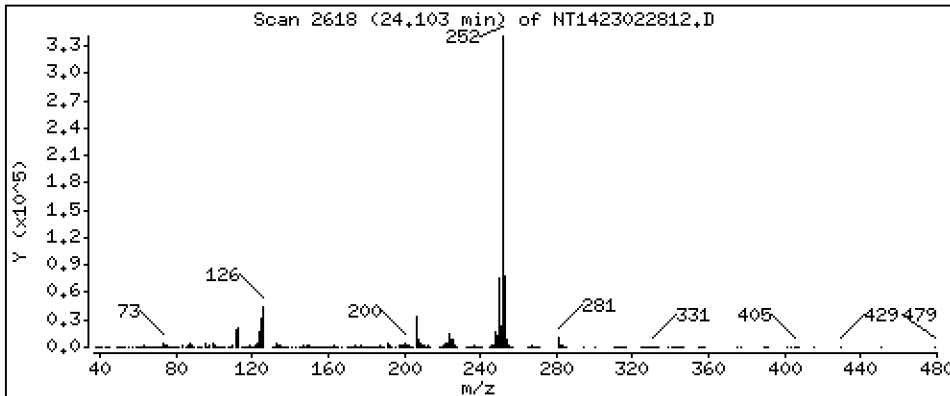
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 4,872 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

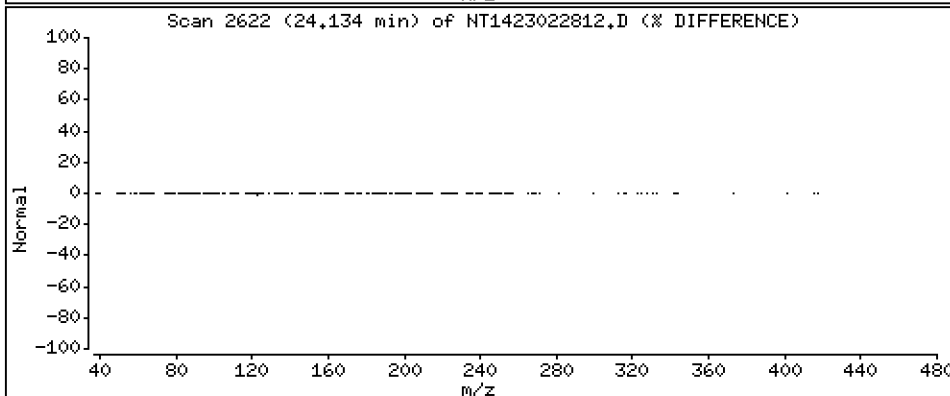
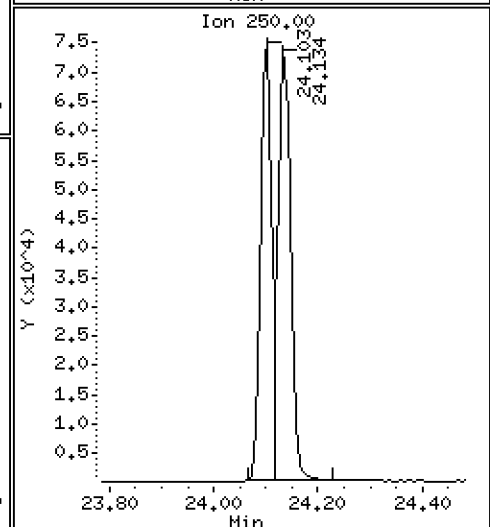
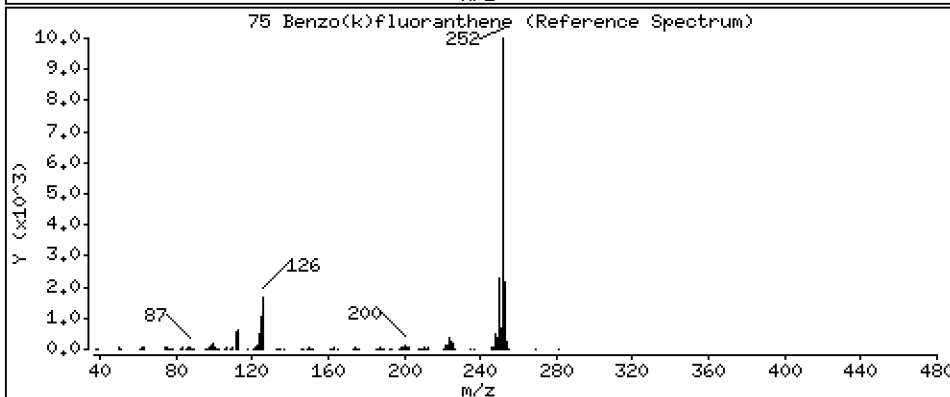
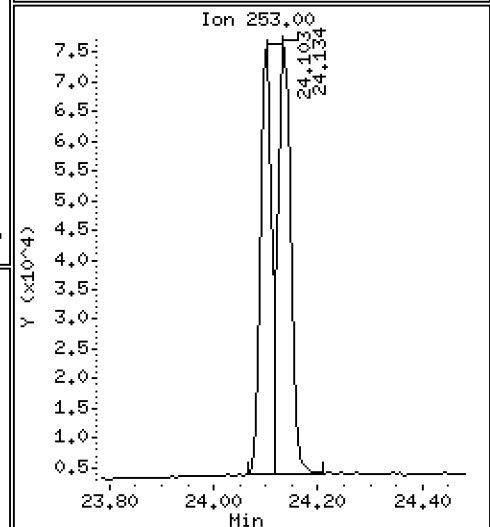
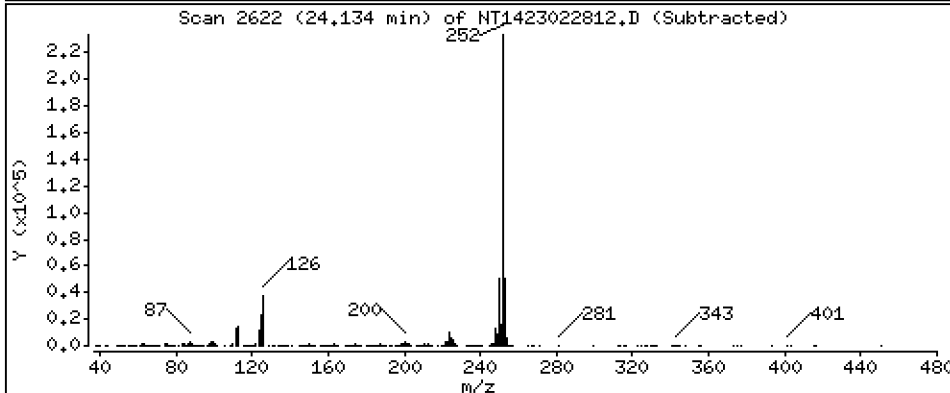
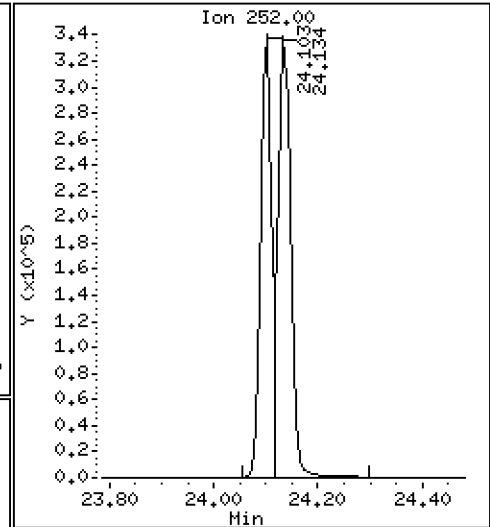
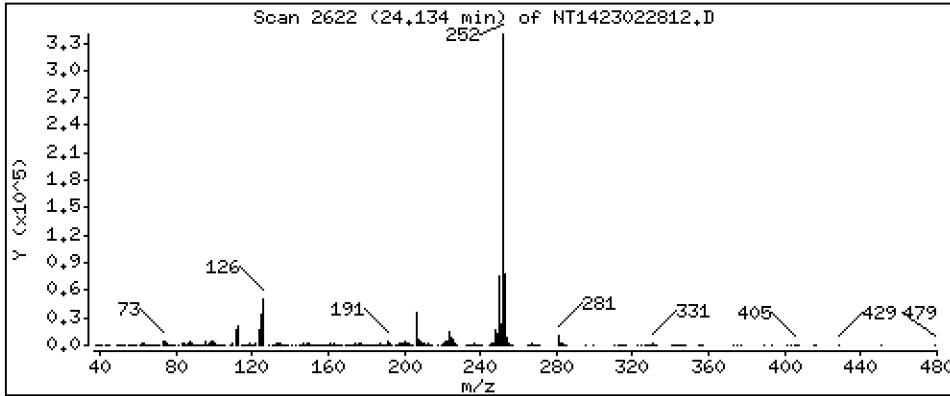
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 4,663 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

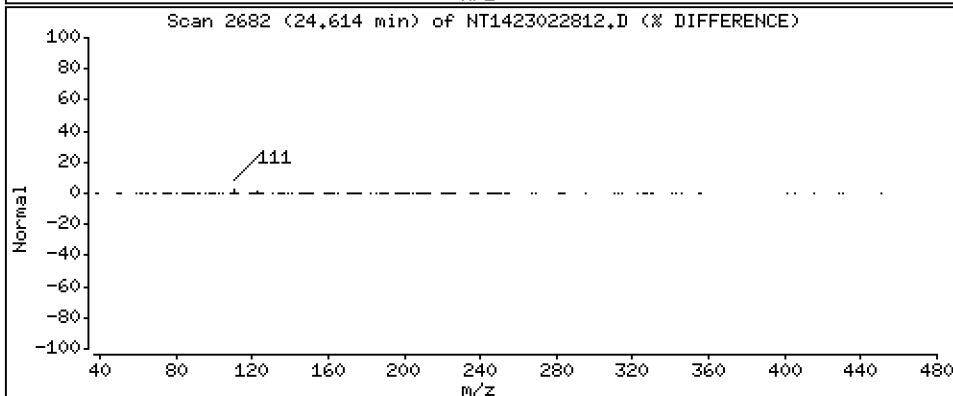
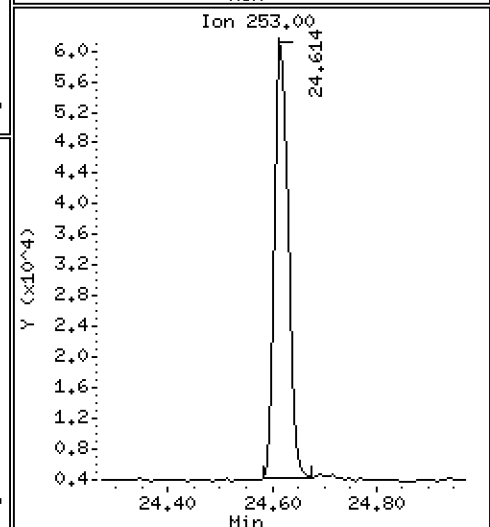
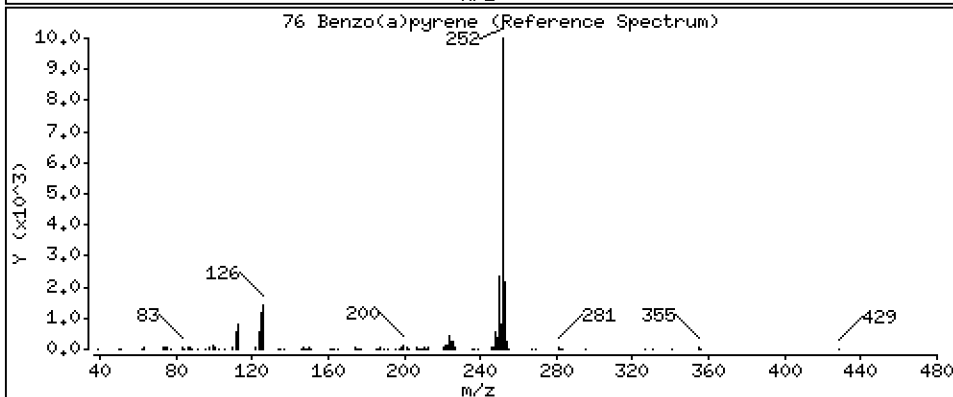
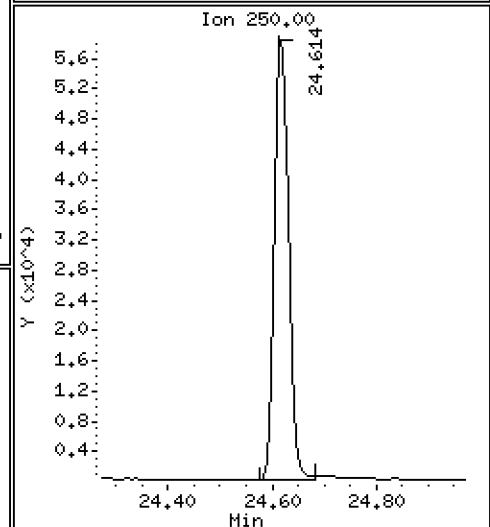
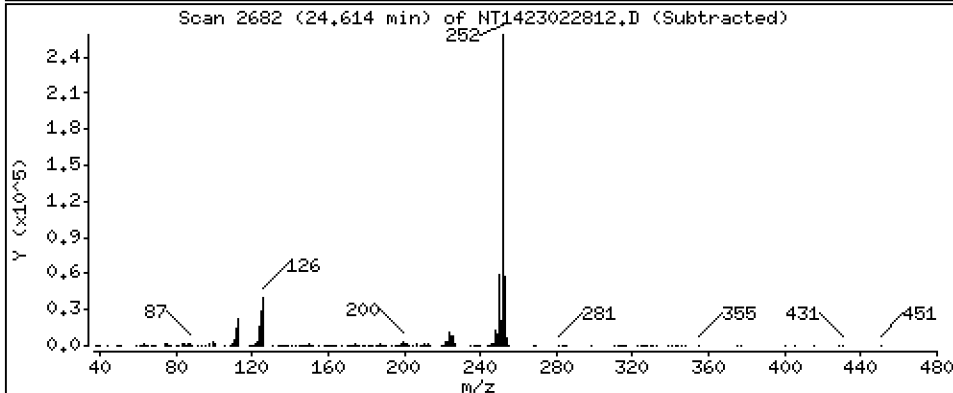
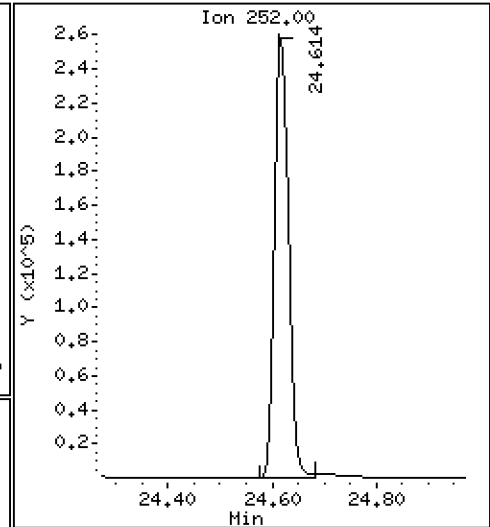
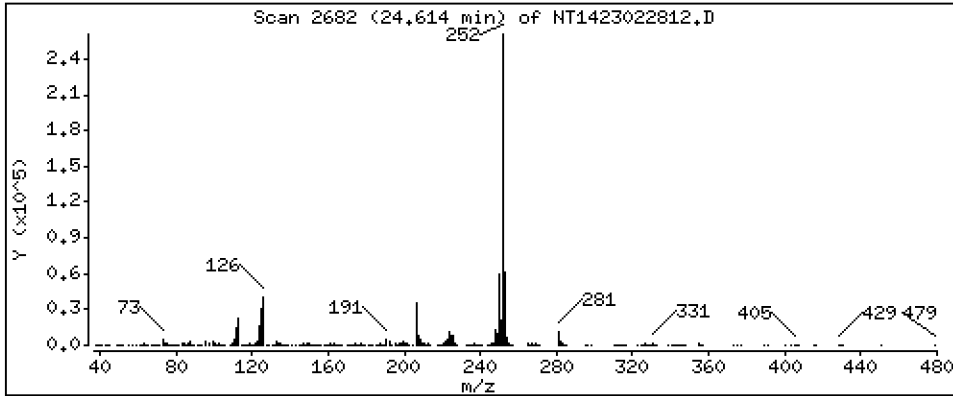
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 4,886 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

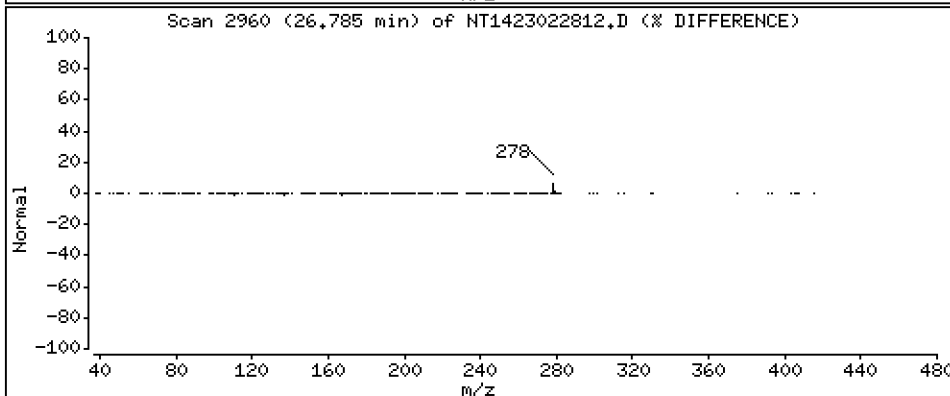
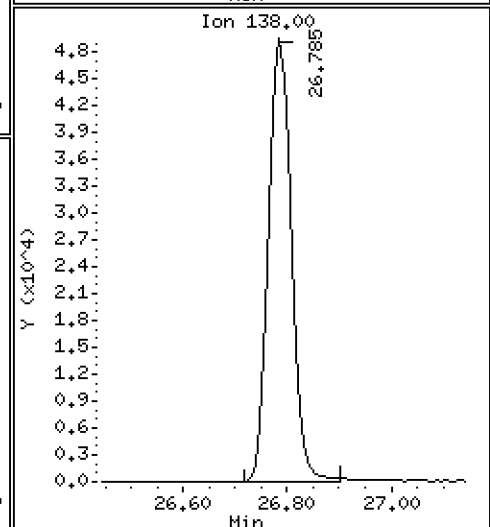
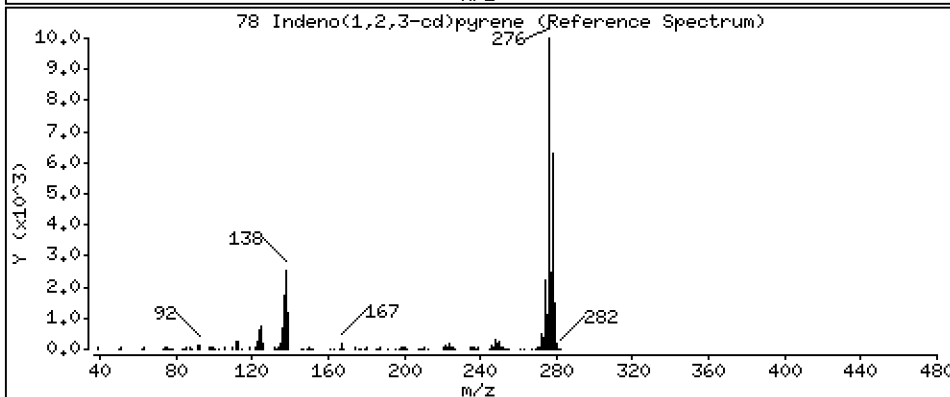
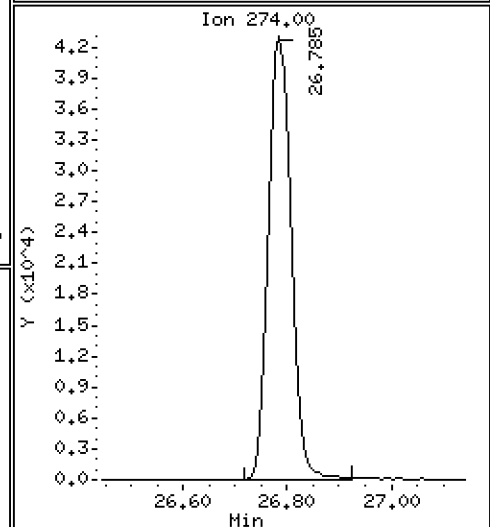
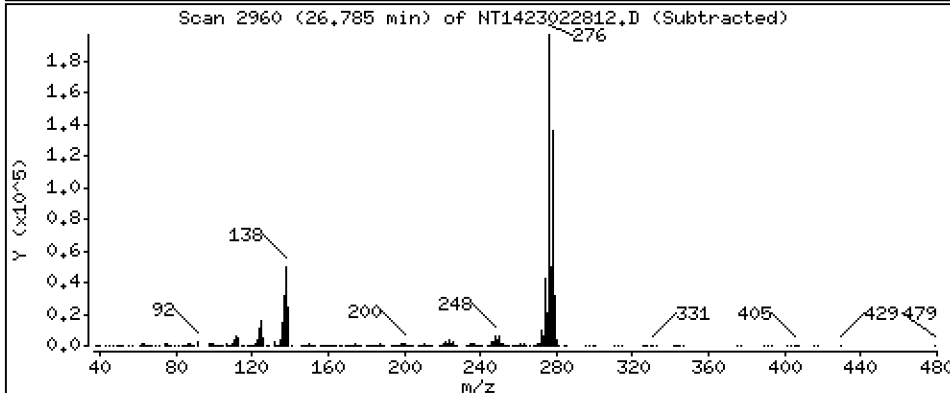
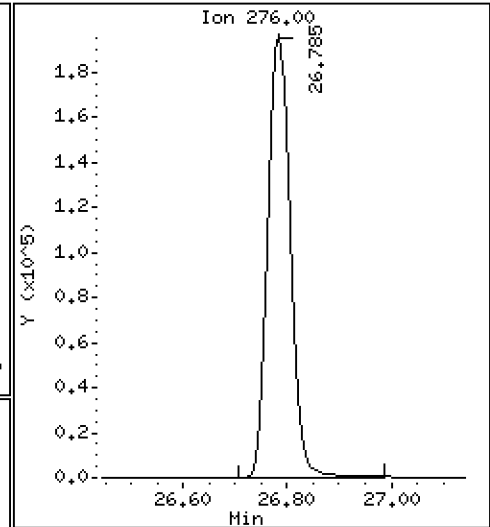
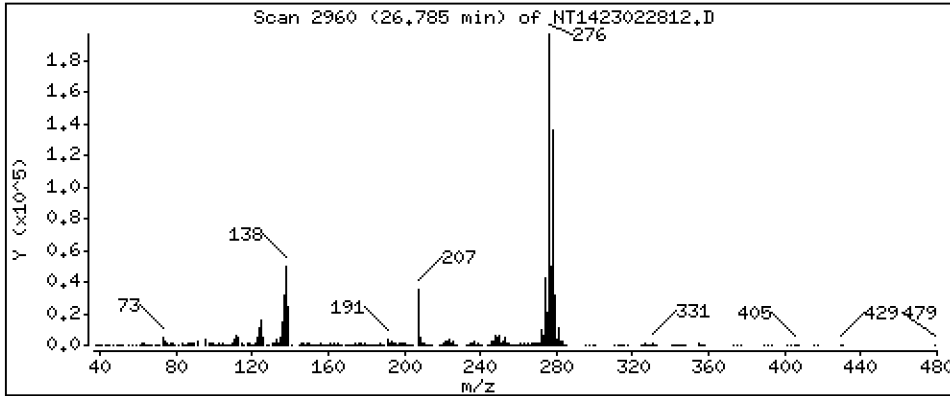
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 4,892 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

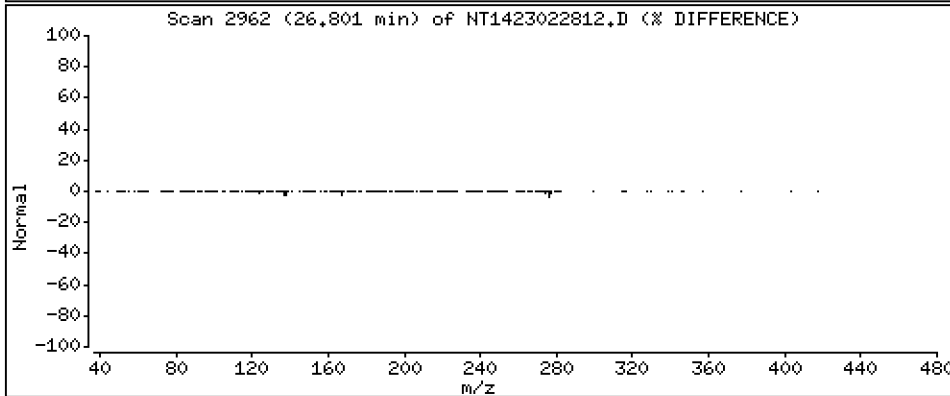
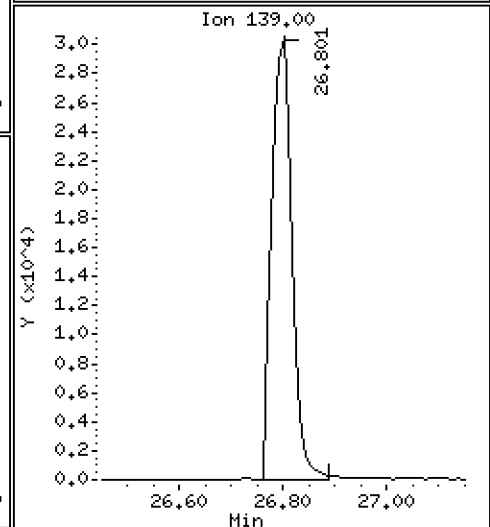
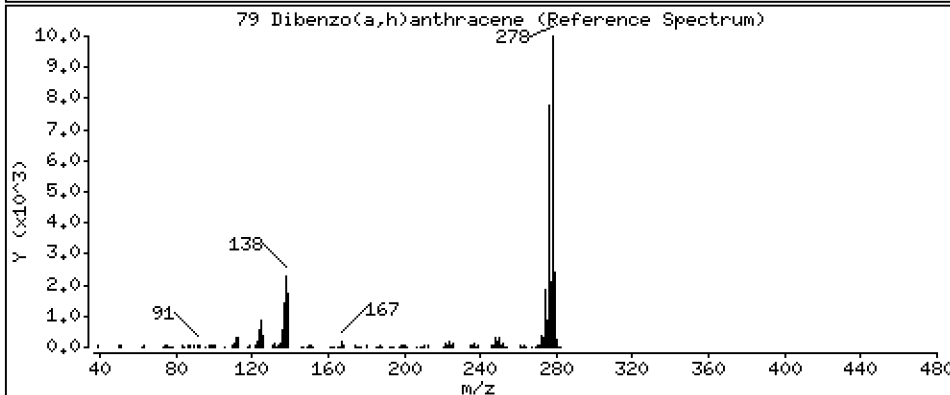
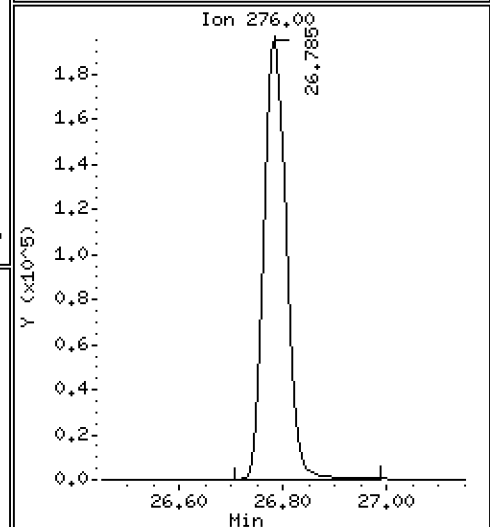
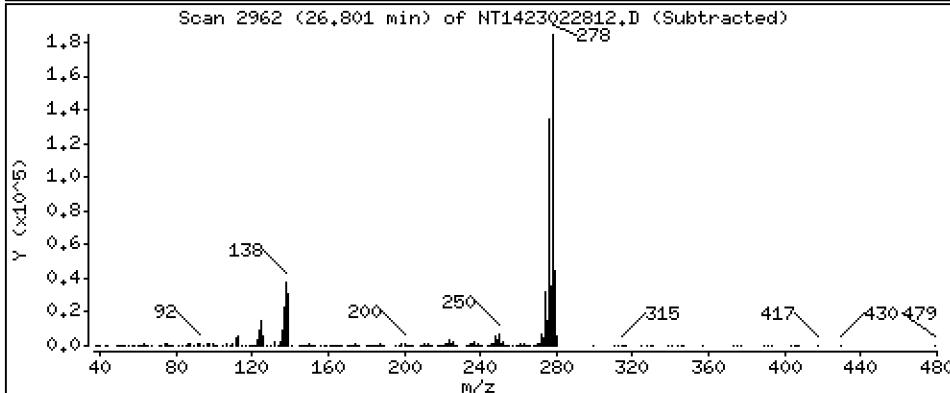
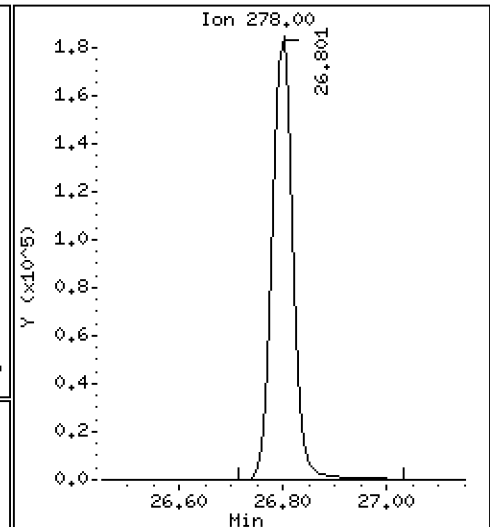
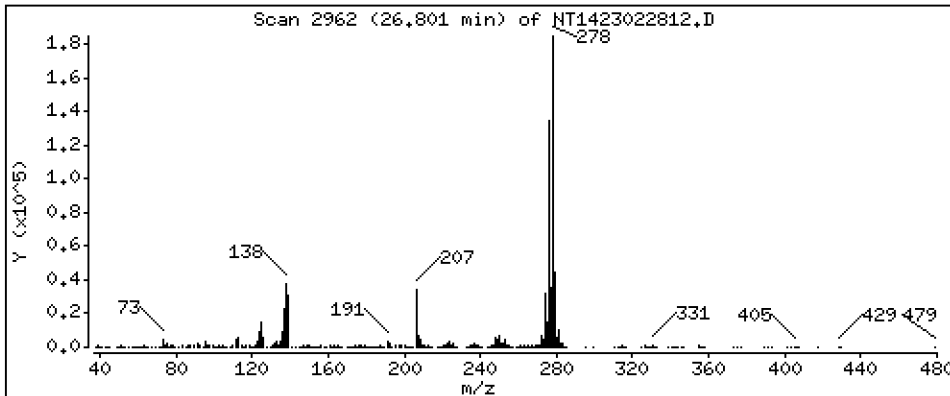
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 4,907 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

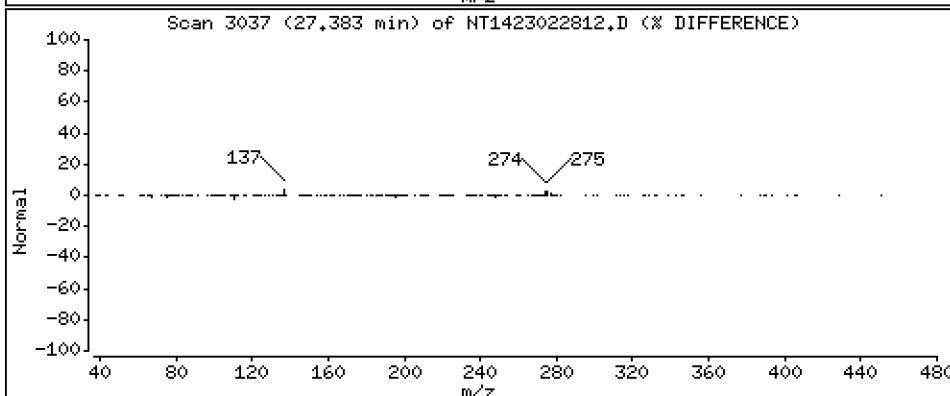
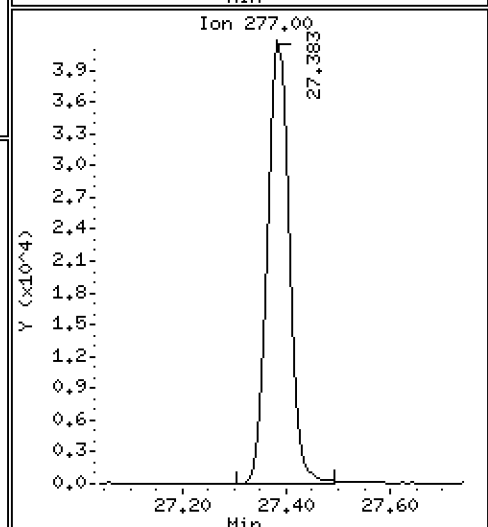
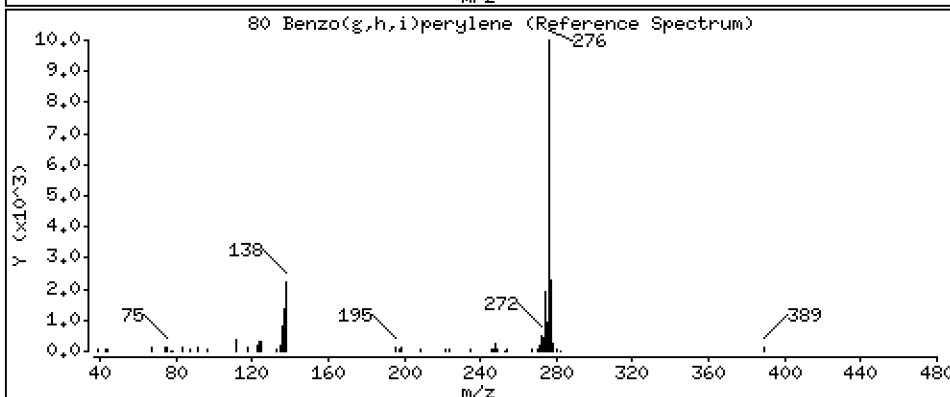
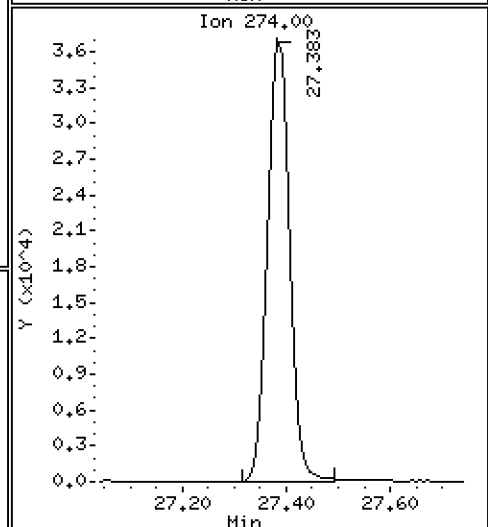
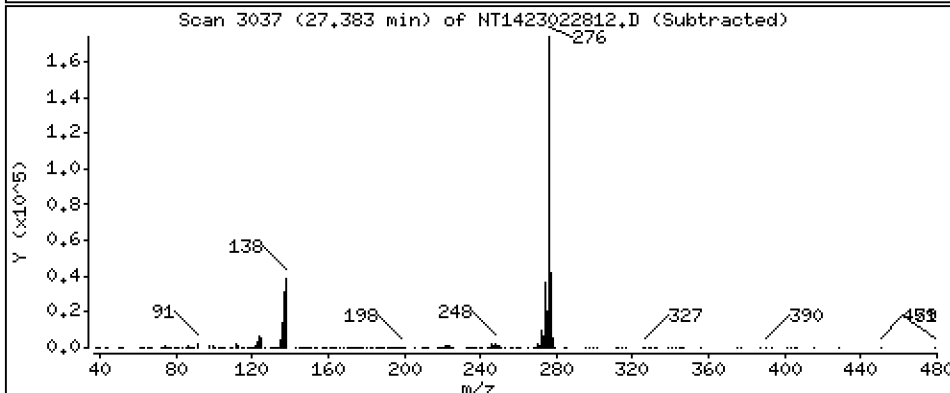
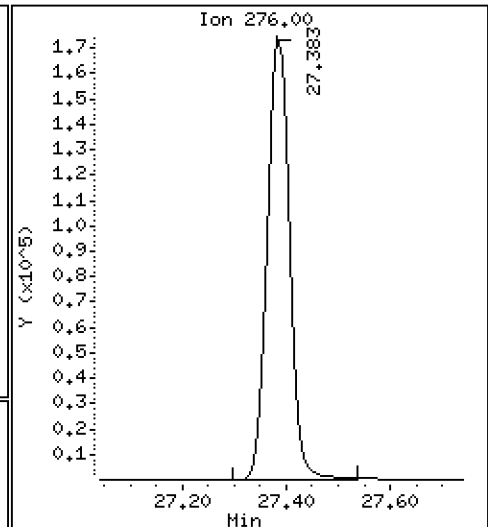
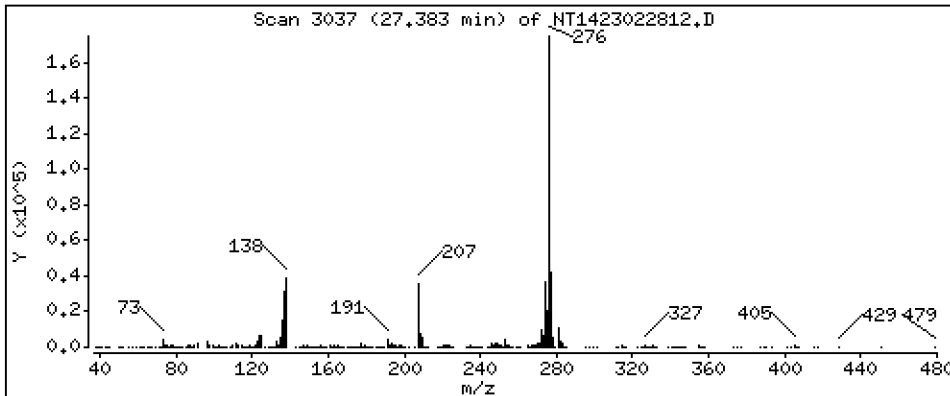
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 4,858 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

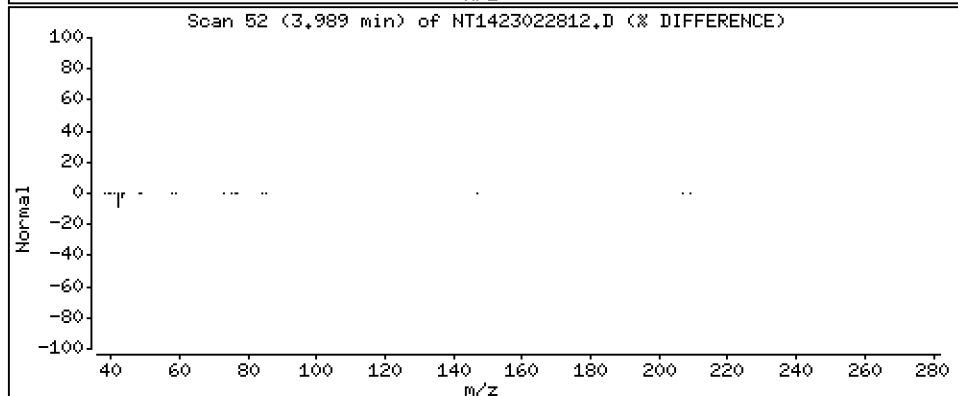
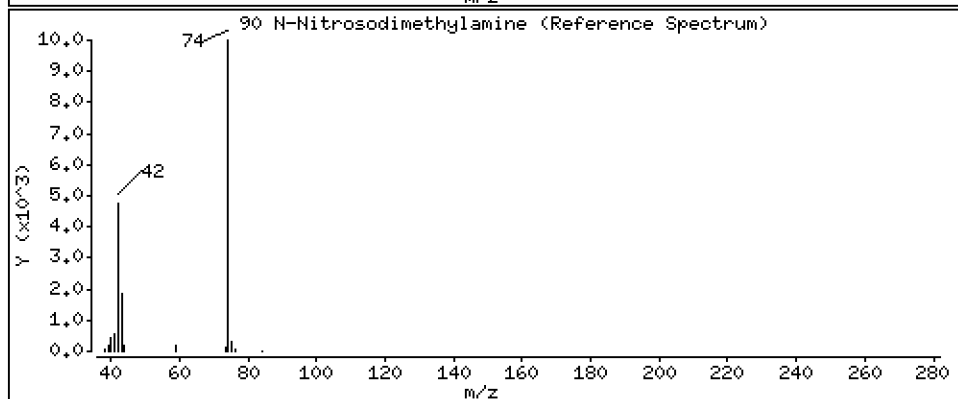
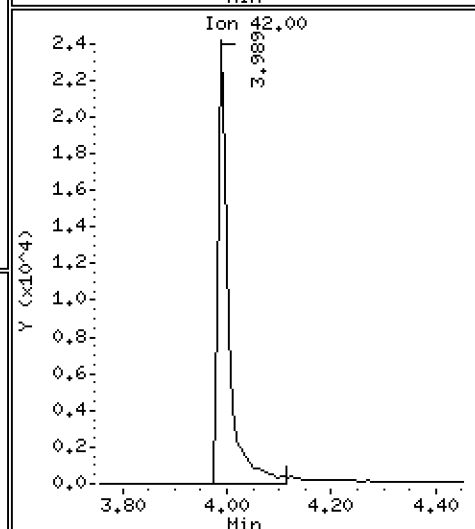
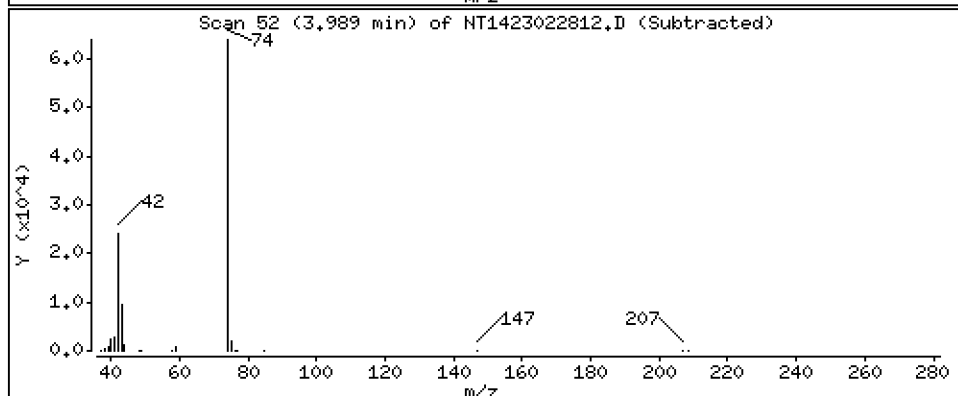
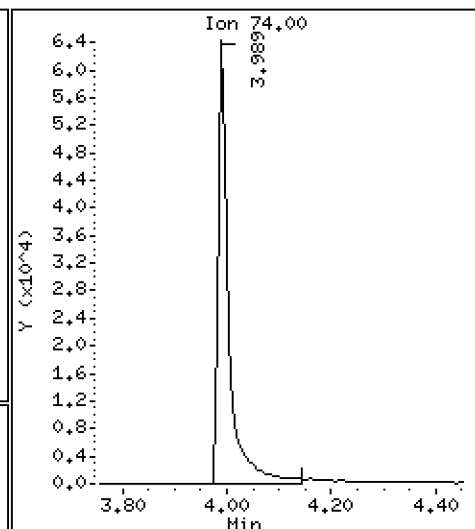
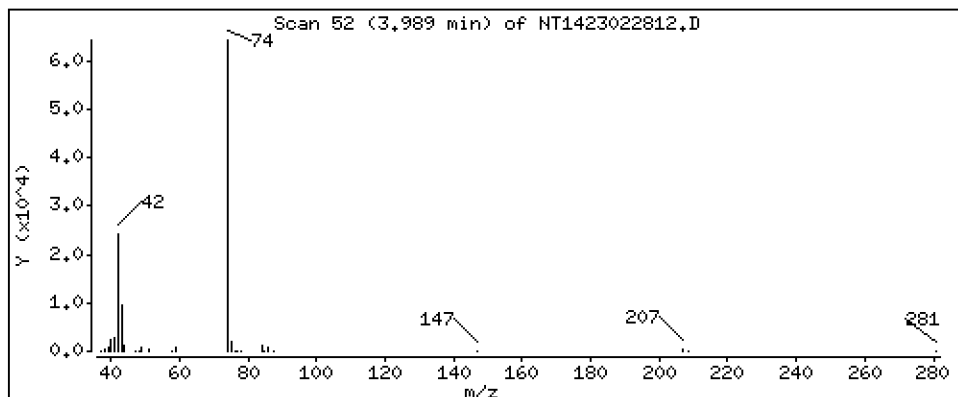
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

90 N-Nitrosodimethylamine

Concentration: 4,507 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

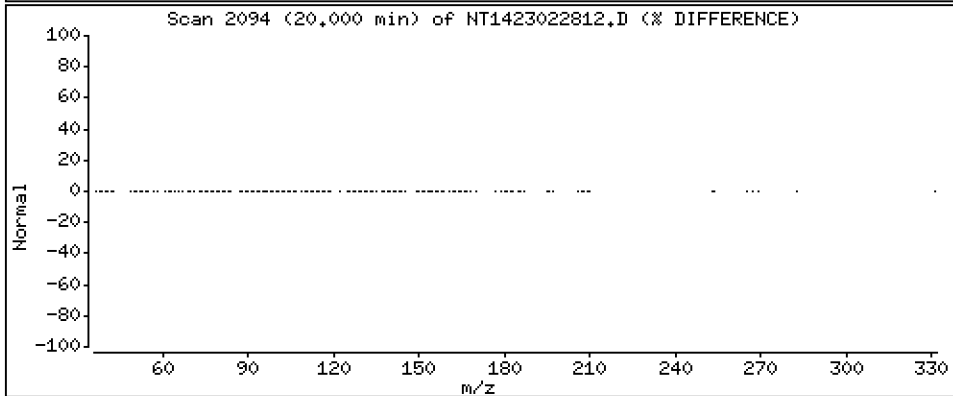
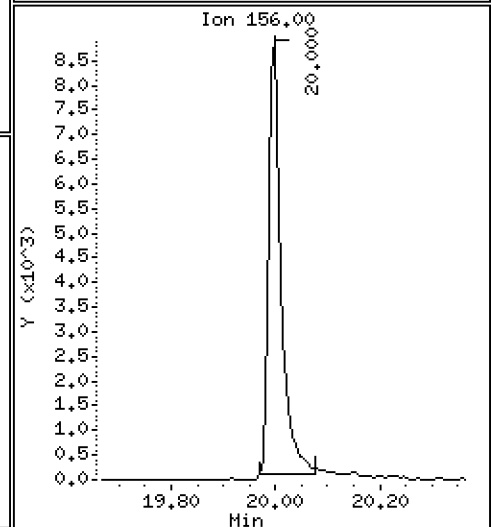
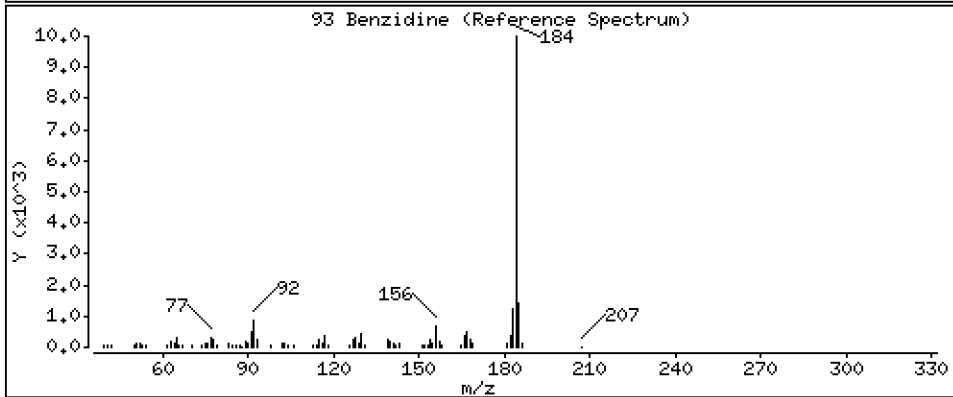
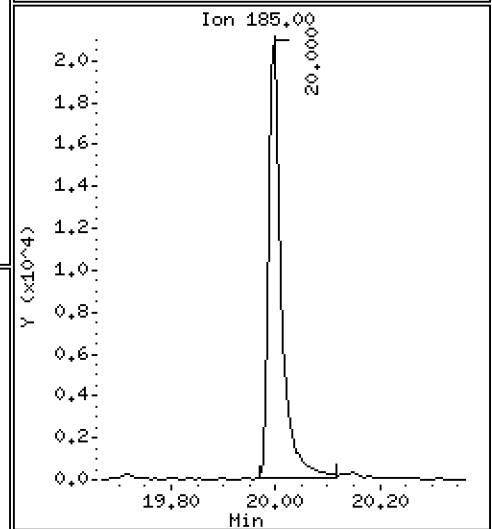
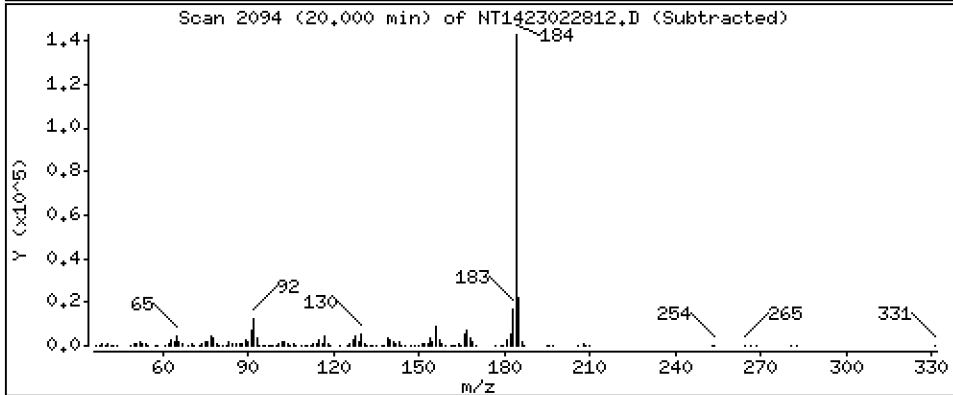
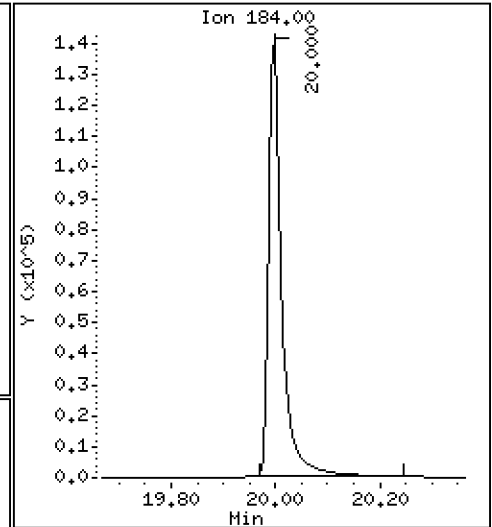
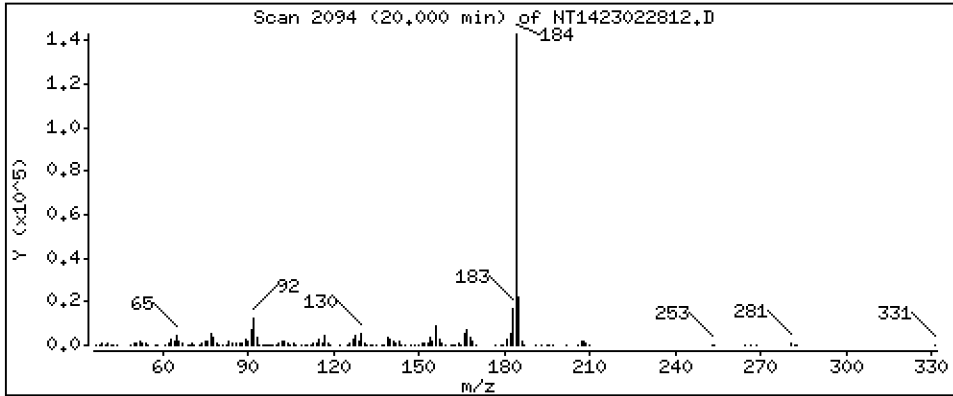
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

93 Benzidine

Concentration: 4,509 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

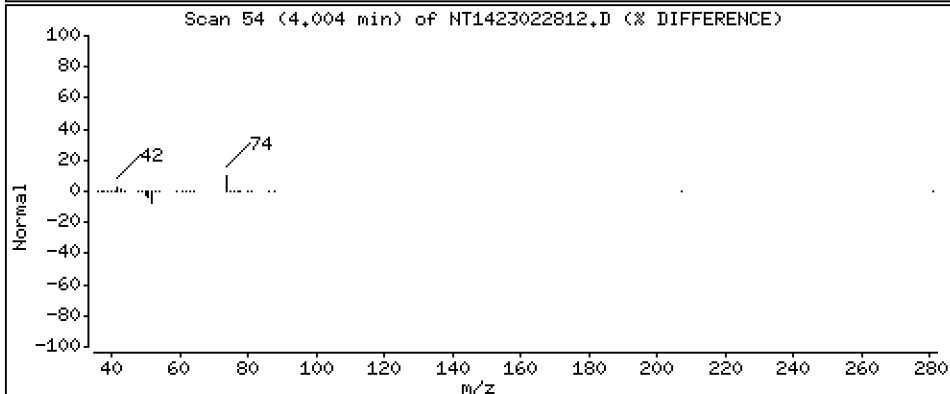
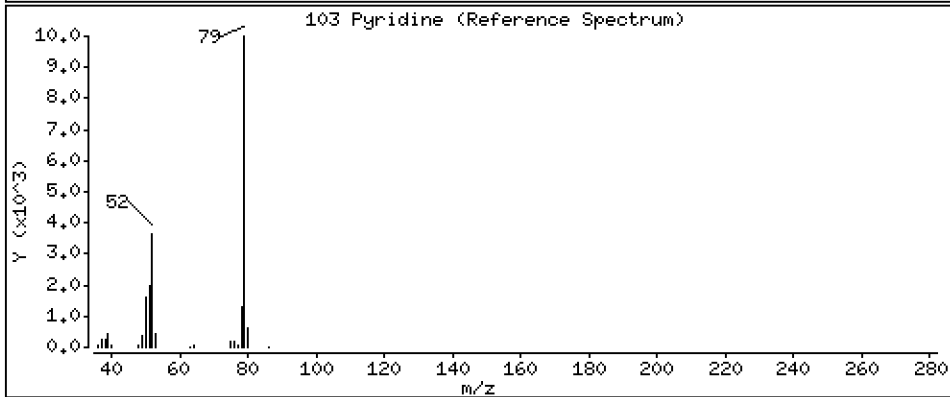
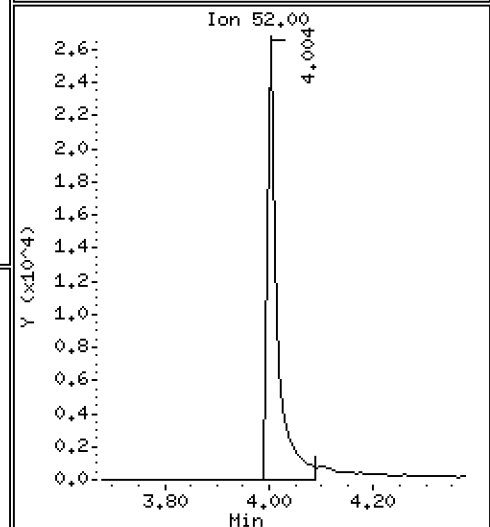
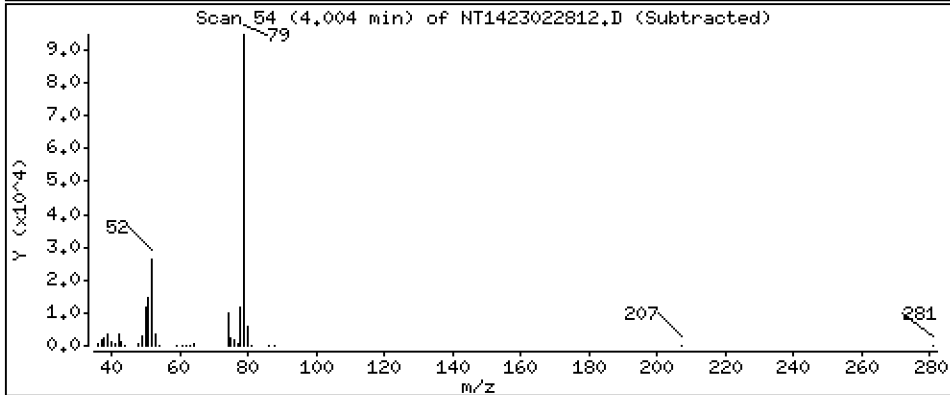
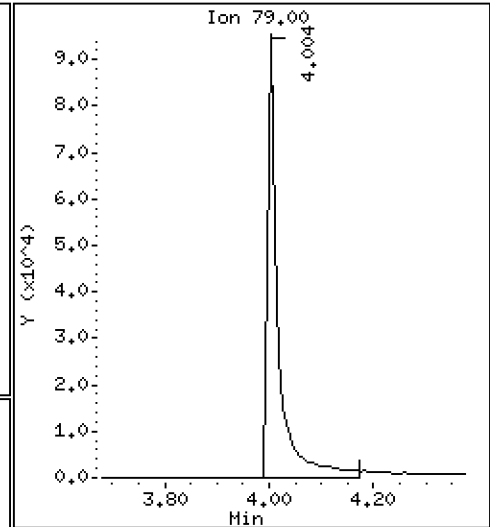
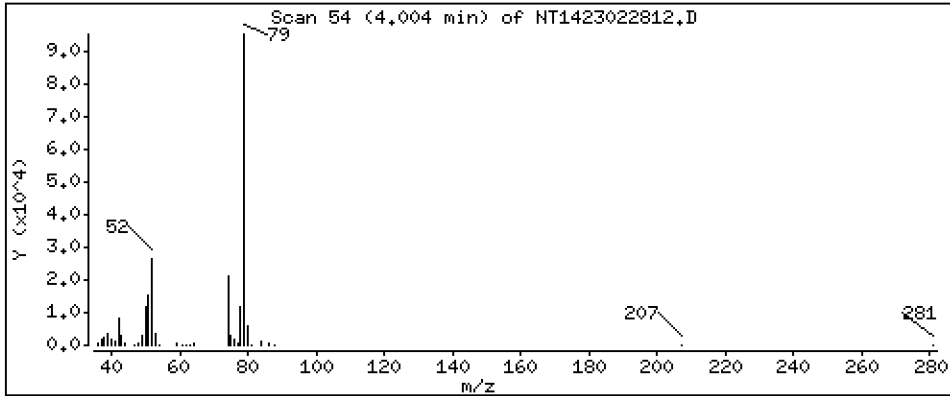
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

103 Pyridine

Concentration: 2,196 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

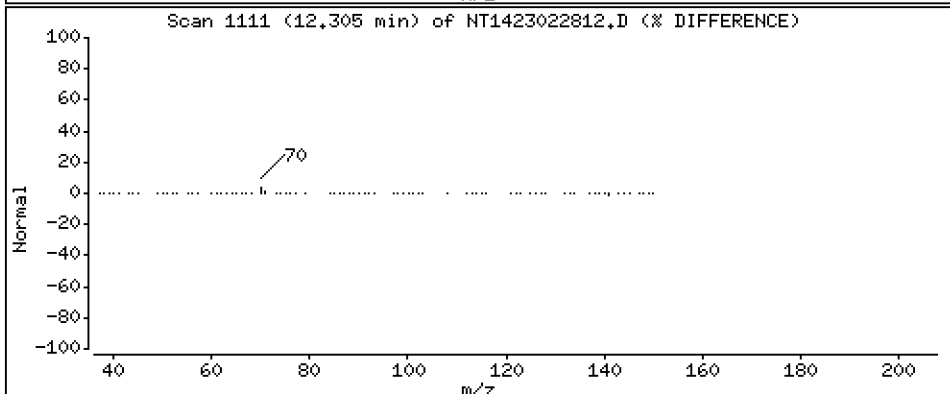
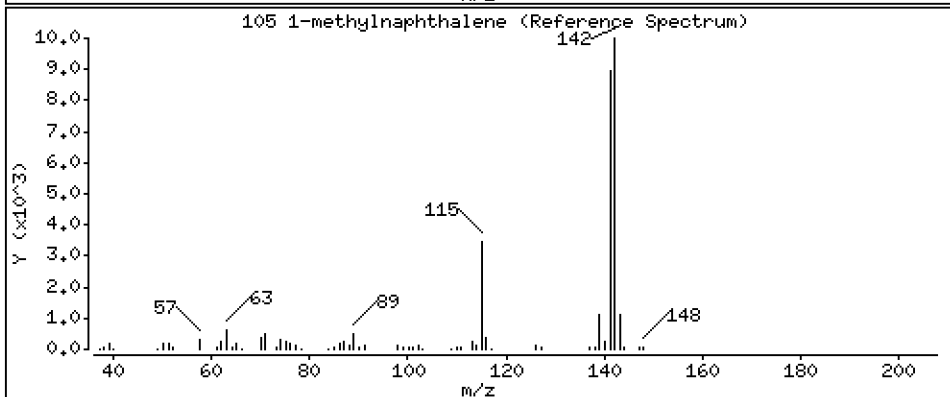
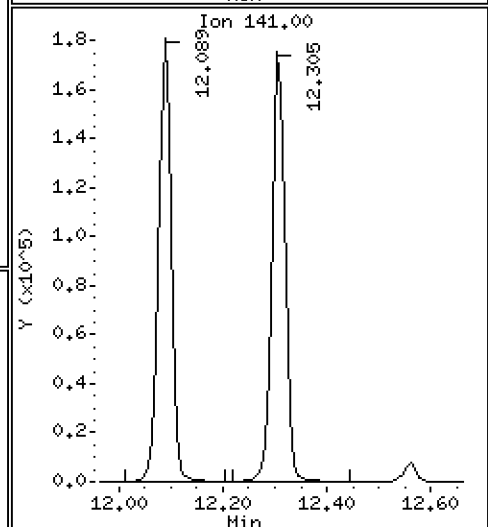
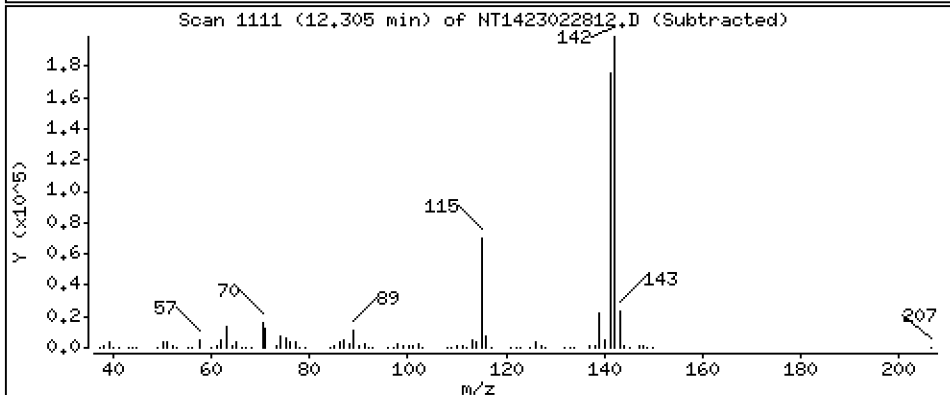
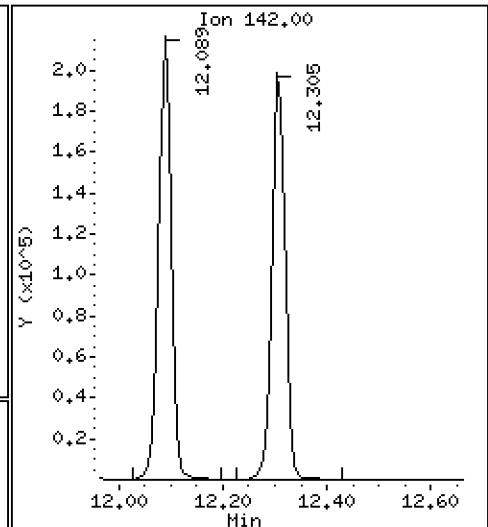
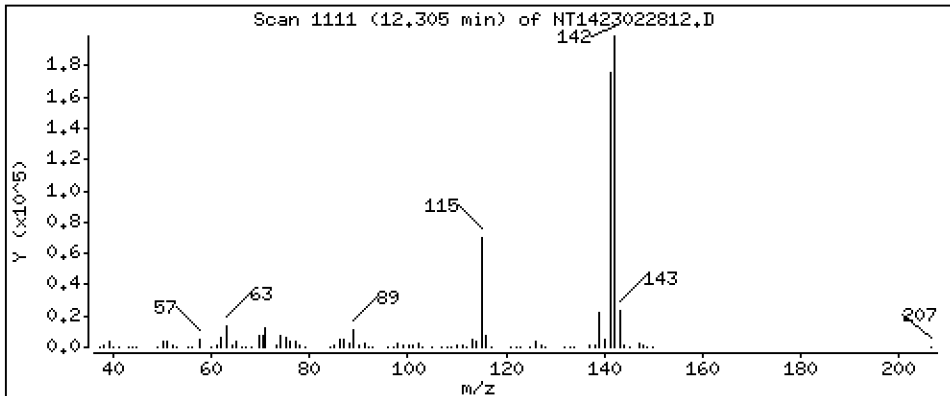
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

105 1-methylnaphthalene

Concentration: 4.871 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

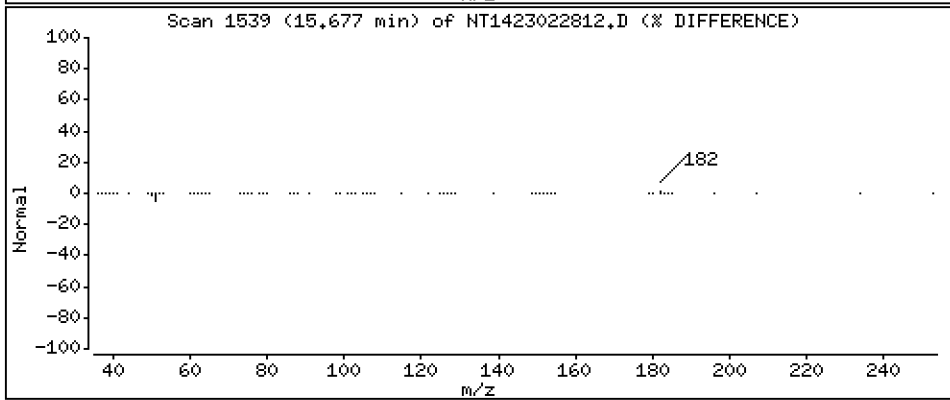
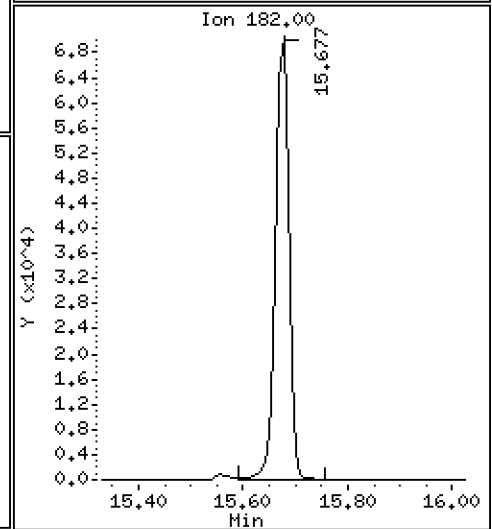
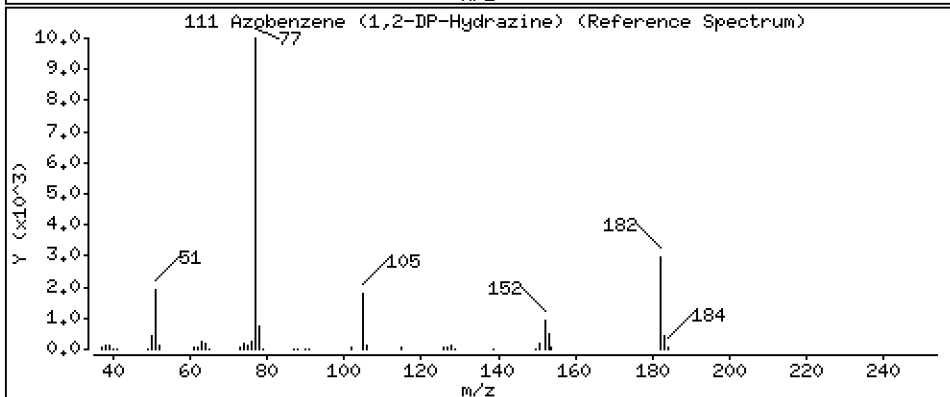
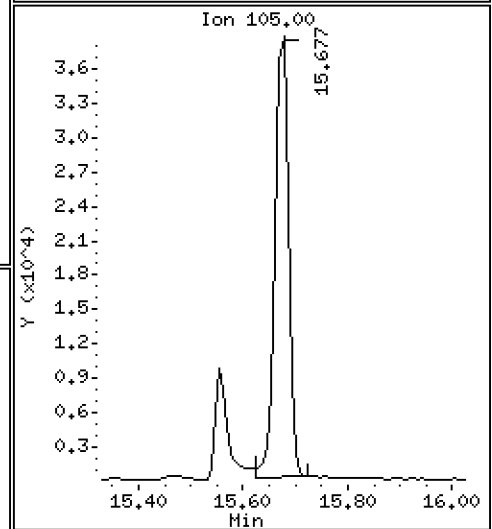
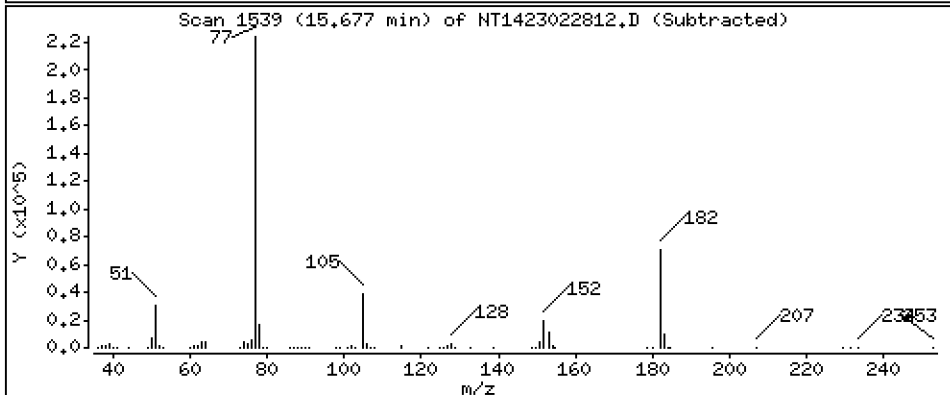
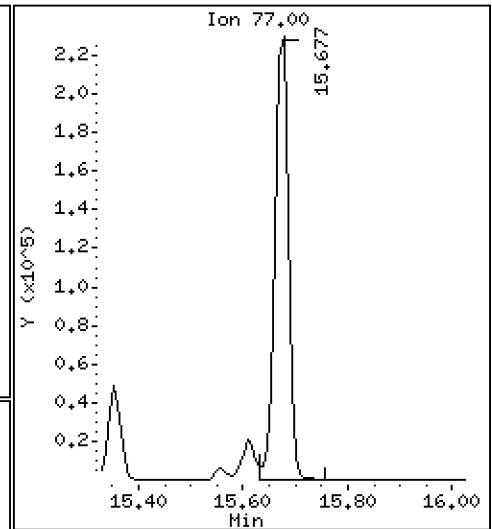
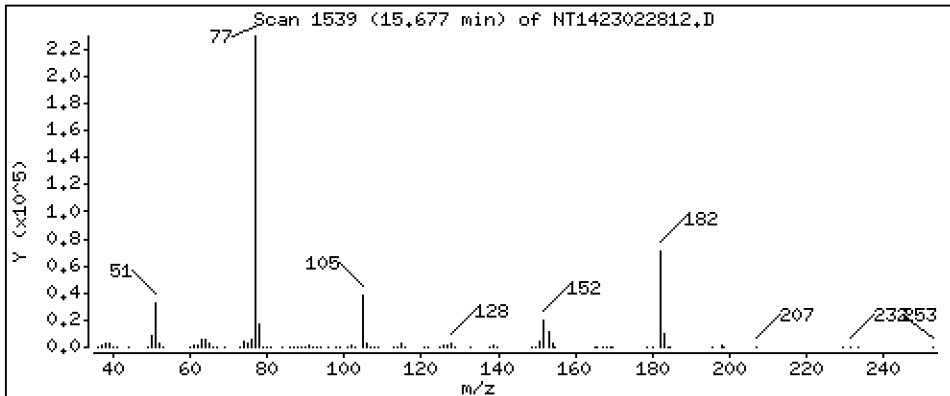
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 5,020 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

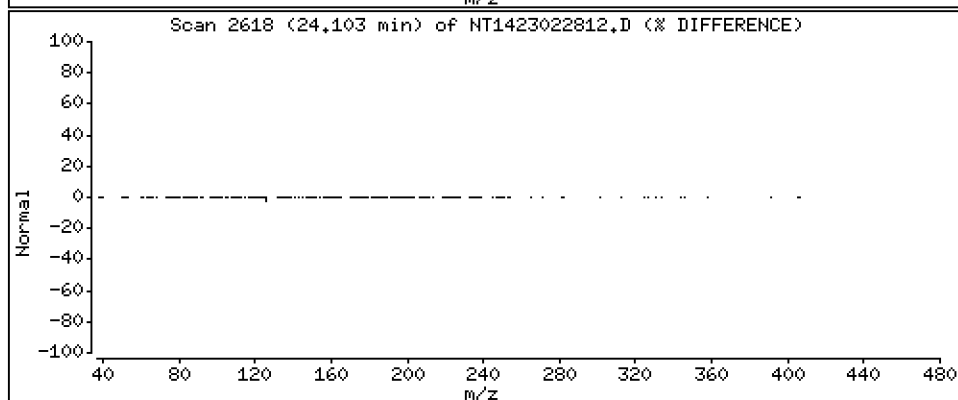
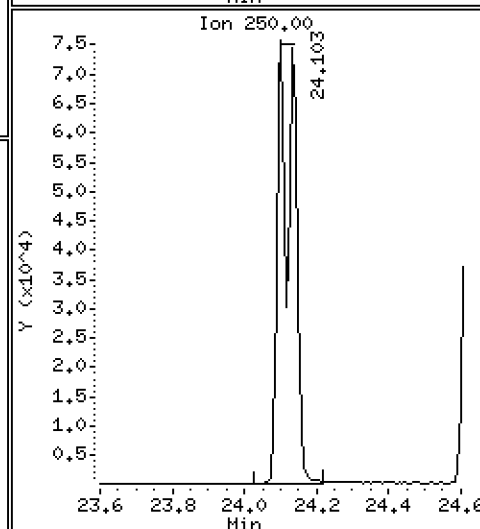
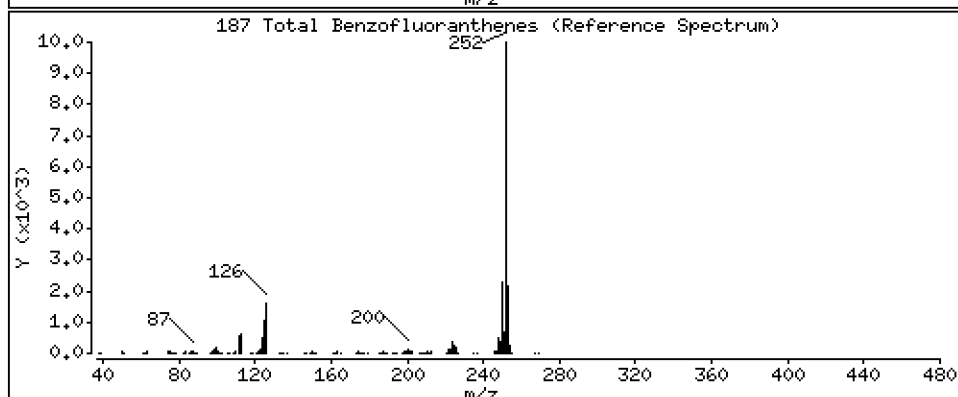
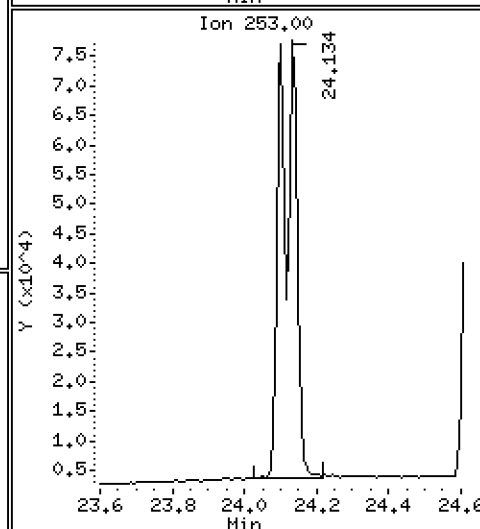
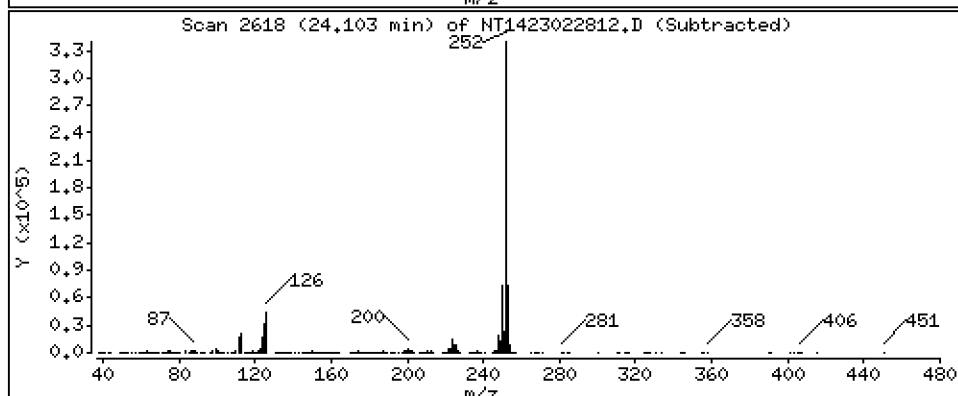
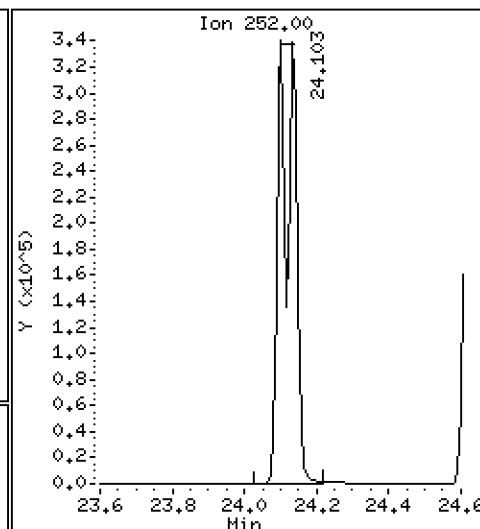
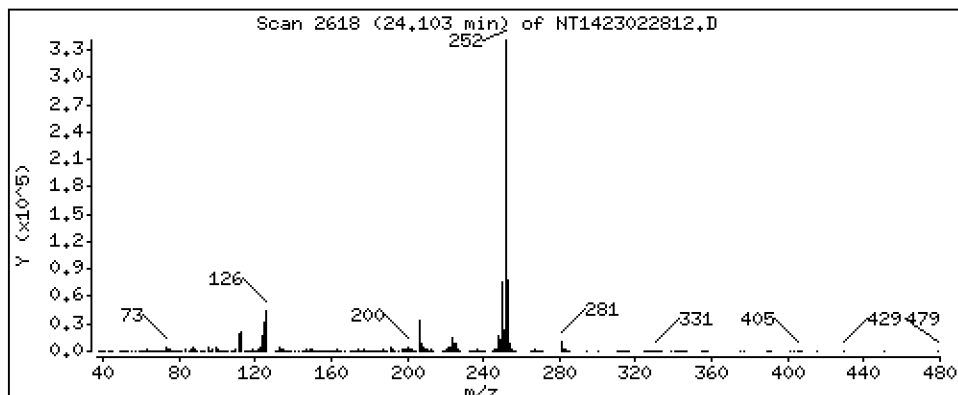
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 9,562 ug/mL



Date : 28-FEB-2023 17:41

Client ID:

Instrument: nt14.i

Sample Info: SLB0374-SCV1

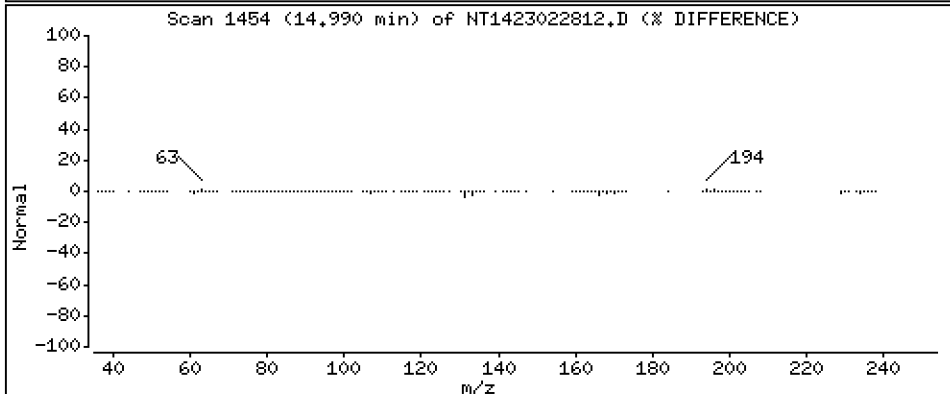
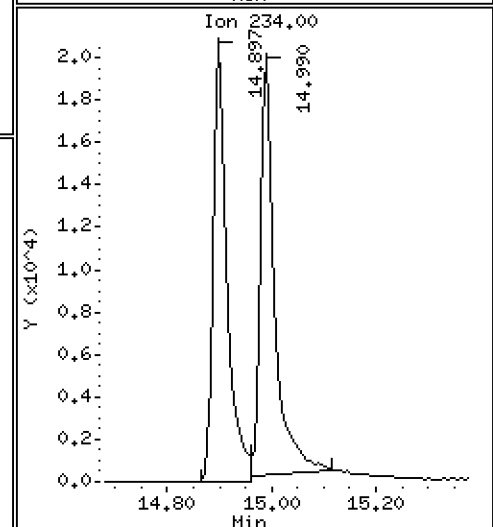
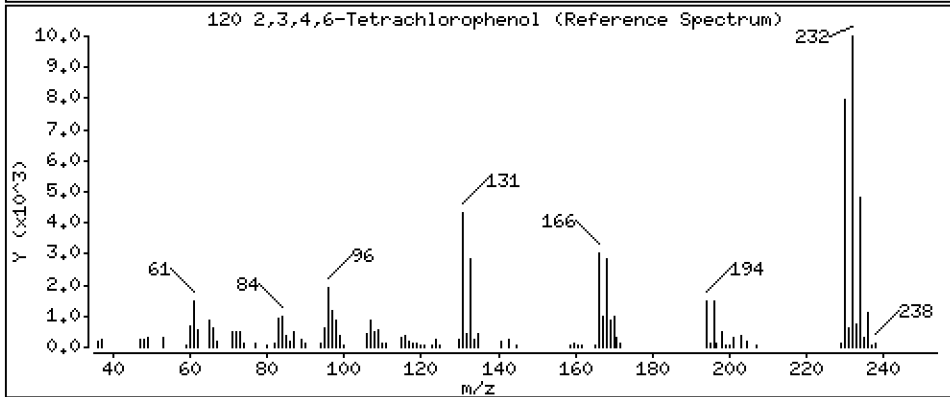
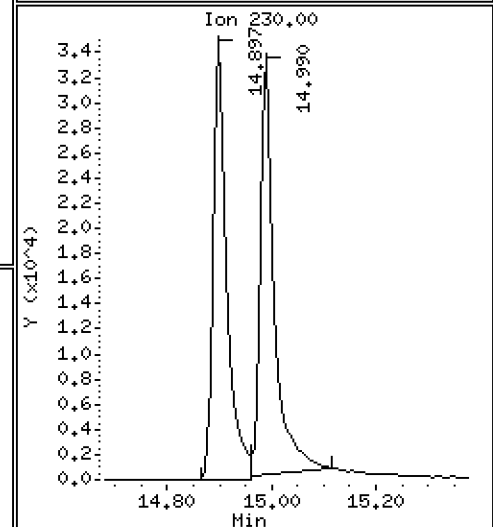
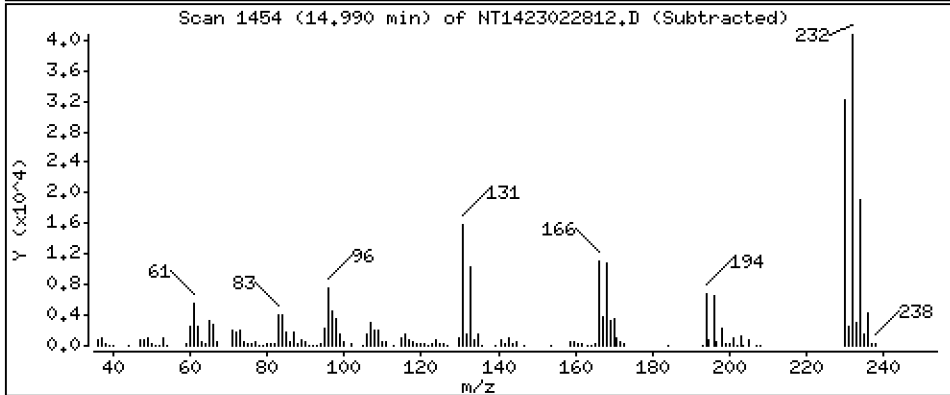
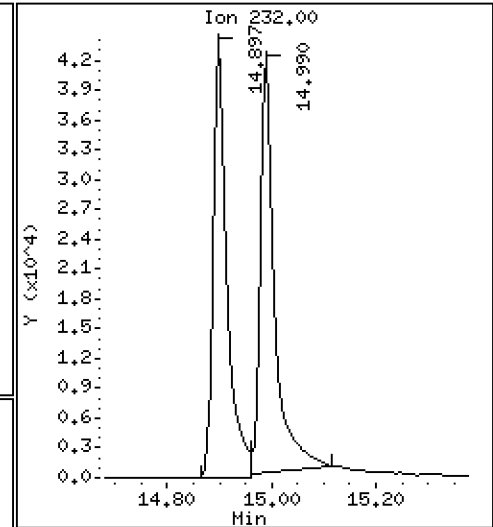
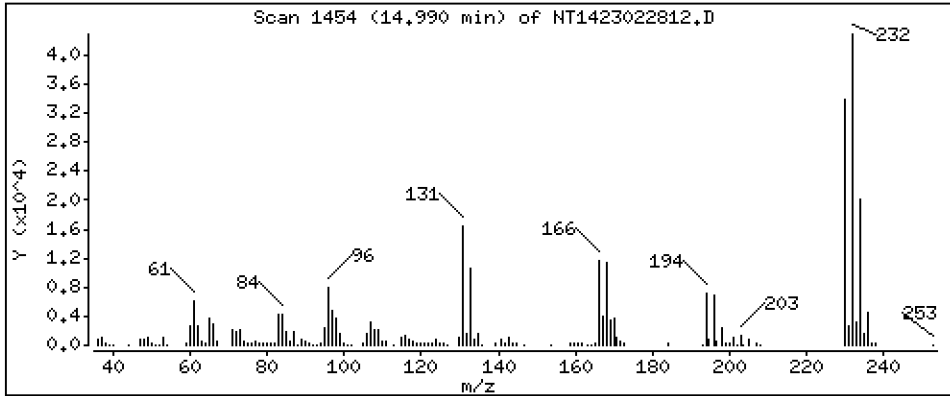
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

120 2,3,4,6-Tetrachlorophenol

Concentration: 3,467 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230228.b\NT1423022812.D
 Lab Smp Id: SLB0374-SCV1
 Inj Date : 28-FEB-2023 17:41 MS Autotune Date: 17-MAY-2011 01:22
 Operator : JGR Inst ID: nt14.i
 Smp Info : SLB0374-SCV1
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt14.i\20230228.b\ABN.m
 Meth Date : 10-Mar-2023 12:09 van Quant Type: ISTD
 Cal Date : 28-FEB-2023 15:16 Cal File: NT1423022808.D
 Als bottle: 12
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: ICAL.sub
 Target Version: 4.14
 Processing Host: VANS-201906

| Compounds | QUANT | SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|---------------------------------|-------|-----|--------|--------|---------|------------------------|----------------|-----------|
| | | | | | | | ON-COLUMN | FINAL |
| | MASS | | | | | | (ug/mL) | (ug/mL) |
| ===== | ==== | | ==== | ===== | ===== | ===== | ===== | ===== |
| \$ 1 2-Fluorophenol | 112 | | | | | Compound Not Detected. | | |
| \$ 2 Phenol-d5 | 99 | | | | | Compound Not Detected. | | |
| 3 Phenol | 94 | | 7.657 | 7.681 | (0.933) | 190853 | 3.93481 | 3.935 |
| \$ 5 2-Chlorophenol-d4 | 132 | | | | | Compound Not Detected. | | |
| 4 Bis(2-Chloroethyl)ether | 93 | | 7.789 | 7.805 | (0.949) | 172225 | 5.22436 | 5.224 |
| 6 2-Chlorophenol | 128 | | 7.889 | 7.905 | (0.961) | 165501 | 4.63235 | 4.632 |
| 7 1,3-Dichlorobenzene | 146 | | 8.145 | 8.153 | (0.992) | 188790 | 4.79491 | 4.795 |
| * 8 1,4-Dichlorobenzene-d4 | 152 | | 8.207 | 8.207 | (1.000) | 105595 | 4.00000 | |
| 9 1,4-Dichlorobenzene | 146 | | 8.238 | 8.246 | (1.004) | 186791 | 4.80018 | 4.800 |
| \$ 10 1,2-Dichlorobenzene-d4 | 152 | | | | | Compound Not Detected. | | |
| 12 1,2-Dichlorobenzene | 146 | | 8.587 | 8.595 | (1.046) | 179357 | 4.80679 | 4.807 |
| 11 Benzyl alcohol | 108 | | 8.509 | 8.688 | (1.037) | 92183 | 4.30388 | 4.304 |
| 14 2,2'-oxybis(1-Chloropropane) | 121 | | 8.804 | 8.812 | (1.073) | 55444 | 5.50978 | 5.510 |
| 13 2-Methylphenol | 108 | | 8.750 | 8.774 | (1.066) | 135033 | 4.40682 | 4.407 |
| 17 Hexachloroethane | 117 | | 9.161 | 9.162 | (1.116) | 74373 | 5.08929 | 5.089 |
| 16 N-Nitroso-di-n-propylamine | 70 | | 9.060 | 9.076 | (1.104) | 119882 | 5.13841 | 5.138 |
| 15 4-Methylphenol | 108 | | 9.029 | 9.069 | (1.100) | 147984 | 4.21848 | 4.218 |
| \$ 18 Nitrobenzene-d5 | 82 | | | | | Compound Not Detected. | | |
| 19 Nitrobenzene | 77 | | 9.332 | 9.356 | (0.875) | 180410 | 5.05930 | 5.059 |
| 20 Isophorone | 82 | | 9.782 | 9.806 | (0.917) | 349645 | 6.41026 | 6.410 |
| 21 2-Nitrophenol | 139 | | 9.961 | 9.992 | (0.934) | 76558 | 4.12597 | 4.126 |
| 22 2,4-Dimethylphenol | 107 | | 10.054 | 10.062 | (0.943) | 126462 | 3.89012 | 3.890 |
| 23 Bis(2-Chloroethoxy)methane | 93 | | 10.240 | 10.256 | (0.960) | 206654 | 5.76434 | 5.764 |
| 24 Benzoic acid | 105 | | 10.309 | 10.665 | (0.967) | 52451 | 4.07142 | 4.071 (M) |
| 25 2,4-Dichlorophenol | 162 | | 10.418 | 10.441 | (0.977) | 154075 | 4.78253 | 4.783 |
| 26 1,2,4-Trichlorobenzene | 180 | | 10.580 | 10.588 | (0.992) | 175958 | 4.78932 | 4.789 |
| * 27 Naphthalene-d8 | 136 | | 10.665 | 10.665 | (1.000) | 379346 | 4.00000 | |
| 28 Naphthalene | 128 | | 10.703 | 10.704 | (1.004) | 482268 | 4.76613 | 4.766 |
| 29 4-Chloroaniline | 127 | | 10.858 | 10.889 | (1.018) | 168576 | 3.89508 | 3.895 |
| 30 Hexachlorobutadiene | 225 | | 11.074 | 11.082 | (1.038) | 107684 | 4.80334 | 4.803 |
| 31 4-Chloro-3-methylphenol | 107 | | 11.848 | 11.872 | (1.111) | 142216 | 4.86015 | 4.860 |
| 32 2-Methylnaphthalene | 142 | | 12.088 | 12.096 | (1.133) | 346575 | 4.62518 | 4.625 |
| 33 Hexachlorocyclopentadiene | 237 | | 12.560 | 12.560 | (0.882) | 109998 | 4.53253 | 4.533 |

| Compounds | QUANT | SIG | | | | | | CONCENTRATIONS | |
|-----------------------------------|-------|-----|------------------------|--------|---------|--------|----------|----------------------|------------------|
| | | | MASS | RT | EXP RT | REL RT | RESPONSE | ON-COLUMN (ug/mL) | FINAL (ug/mL) |
| 34 2,4,6-Trichlorophenol | 196 | | 12.723 | 12.746 | (0.893) | 107803 | 4.78817 | 4.788 | |
| 35 2,4,5-Trichlorophenol | 196 | | 12.800 | 12.831 | (0.898) | 113667 | 4.66940 | 4.669 | |
| § 36 2-Fluorobiphenyl | 172 | | Compound Not Detected. | | | | | | |
| 37 2-Chloronaphthalene | 162 | | 13.071 | 13.079 | (0.917) | 353130 | 4.91059 | 4.911 | |
| 38 2-Nitroaniline | 65 | | 13.357 | 13.373 | (0.938) | 93395 | 4.97969 | 4.980 | |
| 39 Dimethylphthalate | 163 | | 13.806 | 13.814 | (0.969) | 377389 | 5.20568 | 5.206 | |
| 40 Acenaphthylene | 152 | | 13.930 | 13.938 | (0.978) | 524968 | 4.97505 | 4.975 | |
| 41 2,6-Dinitrotoluene | 165 | | 13.930 | 13.938 | (0.978) | 88793 | 5.22670 | 5.227 | |
| * 42 Acenaphthene-d10 | 164 | | 14.247 | 14.247 | (1.000) | 230482 | 4.00000 | | |
| 43 3-Nitroaniline | 138 | | 14.209 | 14.232 | (0.997) | 84775 | 4.86882 | 4.869 | |
| 44 Acenaphthene | 153 | | 14.309 | 14.309 | (1.004) | 322046 | 4.76684 | 4.767 | |
| 45 2,4-Dinitrophenol | 184 | | 14.433 | 14.425 | (1.013) | 10550 | 0.98072 | 0.9807 | |
| 46 Dibenzofuran | 168 | | 14.634 | 14.642 | (1.027) | 507169 | 4.71794 | 4.718 | |
| 47 4-Nitrophenol | 109 | | 14.572 | 14.580 | (1.023) | 34204 | 3.93377 | 3.934 | |
| 48 2,4-Dinitrotoluene | 165 | | 14.726 | 14.734 | (1.034) | 120852 | 4.94149 | 4.941 | |
| 50 Diethylphthalate | 149 | | 15.252 | 15.260 | (1.071) | 367448 | 5.42014 | 5.420 | |
| 49 Fluorene | 166 | | 15.337 | 15.345 | (1.077) | 434135 | 4.79317 | 4.793 | |
| 51 4-Chlorophenyl-phenylether | 204 | | 15.353 | 15.361 | (1.078) | 235392 | 4.88448 | 4.884 | |
| 52 4-Nitroaniline | 138 | | 15.461 | 15.492 | (1.085) | 78705 | 4.55998 | 4.560 | |
| 53 4,6-Dinitro-2-methylphenol | 198 | | 15.554 | 15.608 | (0.902) | 49314 | 3.23357 | 3.234 | |
| 54 N-Nitrosodiphenylamine | 169 | | 15.607 | 15.616 | (0.905) | 286663 | 4.97950 | 4.980 | |
| § 55 2,4,6-Tribromophenol | 330 | | Compound Not Detected. | | | | | | |
| 56 4-Bromophenyl-phenylether | 248 | | 16.348 | 16.348 | (0.948) | 130387 | 5.15173 | 5.152 | |
| 57 Hexachlorobenzene | 284 | | 16.634 | 16.634 | (0.965) | 133283 | 4.78977 | 4.790 | |
| 58 Pentachlorophenol | 266 | | 17.013 | 17.021 | (0.987) | 46829 | 3.52378 | 3.524 (M) | |
| * 59 Phenanthrene-d10 | 188 | | 17.245 | 17.245 | (1.000) | 458109 | 4.00000 | | |
| 60 Phenanthrene | 178 | | 17.291 | 17.300 | (1.003) | 562433 | 4.61514 | 4.615 | |
| 61 Anthracene | 178 | | 17.384 | 17.392 | (1.008) | 486699 | 4.22447 | 4.224 | |
| 62 Carbazole | 167 | | 17.732 | 17.748 | (1.028) | 482242 | 4.77590 | 4.776 | |
| 63 Di-n-butylphthalate | 149 | | 18.599 | 18.599 | (1.079) | 617439 | 4.81920 | 4.819 | |
| 64 Fluoranthene | 202 | | 19.713 | 19.721 | (0.881) | 680212 | 5.10377 | 5.104 | |
| 65 Pyrene | 202 | | 20.139 | 20.147 | (0.900) | 696600 | 4.95743 | 4.957 | |
| § 66 Terphenyl-d14 | 244 | | Compound Not Detected. | | | | | | |
| 67 Butylbenzylphthalate | 149 | | 21.439 | 21.447 | (0.958) | 242201 | 4.96478 | 4.965 | |
| 68 Benzo(a)anthracene | 228 | | 22.338 | 22.338 | (0.999) | 578542 | 4.91658 | 4.917 | |
| * 69 Chrysene-d12 | 240 | | 22.368 | 22.361 | (1.000) | 351284 | 4.00000 | | |
| 70 3,3'-Dichlorobenzidine | 252 | | 22.322 | 22.330 | (0.998) | 345809 | 10.2906 | 10.29 | |
| 71 Chrysene | 228 | | 22.407 | 22.415 | (1.002) | 515316 | 4.55608 | 4.556 | |
| 72 bis(2-Ethylhexyl)phthalate | 149 | | 22.500 | 22.500 | (0.958) | 338426 | 5.27680 | 5.277 | |
| * 134 Di-n-octylphthalate-d4 | 153 | | 23.476 | 23.476 | (1.000) | 422614 | 4.00000 | | |
| 73 Di-n-octylphthalate | 149 | | 23.483 | 23.484 | (1.000) | 576704 | 5.18281 | 5.183 | |
| 74 Benzo(b)fluoranthene | 252 | | 24.103 | 24.103 | (0.975) | 541825 | 4.87157 | 4.872 | |
| 75 Benzo(k)fluoranthene | 252 | | 24.134 | 24.134 | (0.977) | 559543 | 4.66326 | 4.663 | |
| 76 Benzo(a)pyrene | 252 | | 24.614 | 24.622 | (0.996) | 466252 | 4.88626 | 4.886 | |
| * 77 Perylene-d12 | 264 | | 24.714 | 24.715 | (1.000) | 336637 | 4.00000 | | |
| 78 Indeno(1,2,3-cd)pyrene | 276 | | 26.785 | 26.793 | (1.084) | 587567 | 4.89167 | 4.892 | |
| 79 Dibenzo(a,h)anthracene | 278 | | 26.800 | 26.800 | (1.084) | 500585 | 4.90681 | 4.907 | |
| 80 Benzo(g,h,i)perylene | 276 | | 27.383 | 27.391 | (1.108) | 508988 | 4.85849 | 4.858 | |
| 90 N-Nitrosodimethylamine | 74 | | 3.988 | 4.104 | (0.486) | 94230 | 4.50713 | 4.507 | |
| 91 Aniline | 93 | | Compound Not Detected. | | | | | | |
| 93 Benzidine | 184 | | 19.999 | 20.015 | (0.894) | 253209 | 4.50911 | 4.509 | |
| 103 Pyridine | 79 | | 4.004 | 4.027 | (0.488) | 137878 | 2.19631 | 2.196 | |
| 105 1-methylnaphthalene | 142 | | 12.305 | 12.313 | (1.154) | 335999 | 4.87061 | 4.871 | |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77 | | 15.677 | 15.677 | (1.100) | 390699 | 5.02002 | 5.020 | |

| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|-------------------------------|-----------|--------|--------|---------|----------|----------------------|------------------|
| | | | | | | ON-COLUMN (ug/mL) | FINAL (ug/mL) |
| 187 Total Benzofluoranthenes | 252 | 24.103 | 24.103 | (0.975) | 1040320 | 9.56184 | 9.562 |
| 120 2,3,4,6-Tetrachlorophenol | 232 | 14.989 | 15.029 | (1.052) | 91471 | 3.46740 | 3.467 |

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 28-FEB-2023
 Lab File ID: NT1423022812.D Calibration Time: 12:51
 Lab Smp Id: SLB0374-SCV1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: JGR
 Method File: \\target\share\chem3\nt14.i\20230228.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|--------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 114351 | 57176 | 228702 | 105595 | -7.66 |
| 27 Naphthalene-d8 | 408655 | 204328 | 817310 | 379346 | -7.17 |
| 42 Acenaphthene-d10 | 254000 | 127000 | 508000 | 230482 | -9.26 |
| 59 Phenanthrene-d10 | 490626 | 245313 | 981252 | 458109 | -6.63 |
| 69 Chrysene-d12 | 390400 | 195200 | 780800 | 351284 | -10.02 |
| 134 Di-n-octylphthala | 500829 | 250415 | 1001658 | 422614 | -15.62 |
| 77 Perylene-d12 | 375675 | 187838 | 751350 | 336637 | -10.39 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 8.21 | 7.71 | 8.71 | 8.21 | -0.09 |
| 27 Naphthalene-d8 | 10.67 | 10.17 | 11.17 | 10.67 | 0.00 |
| 42 Acenaphthene-d10 | 14.25 | 13.75 | 14.75 | 14.25 | 0.00 |
| 59 Phenanthrene-d10 | 17.25 | 16.75 | 17.75 | 17.25 | -0.04 |
| 69 Chrysene-d12 | 22.38 | 21.88 | 22.88 | 22.37 | -0.03 |
| 134 Di-n-octylphthala | 23.48 | 22.98 | 23.98 | 23.48 | -0.03 |
| 77 Perylene-d12 | 24.72 | 24.22 | 25.22 | 24.71 | -0.03 |

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

REVIEW SUMMARY FOR FILE - NT1423022812.D

Lab ID: SLB0374-SCV1
nt14.i, ABN.m, 28-FEB-2023 17:41

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

** FIRST SURROGATE NOT FOUND. ICAL Check not performed **

RRT CHECK

| RRT | CCV RRT | DELTA | COMPOUND |
|-------|---------|---------|------------------------|
| 1.037 | 1.059 | -0.0218 | Benzyl alcohol |
| 0.967 | 0.000 | 0.9667 | Benzoic acid |
| 1.013 | 0.000 | 1.0130 | 2,4-Dinitrophenol |
| 1.023 | 0.000 | 1.0228 | 4-Nitrophenol |
| 0.987 | 0.000 | 0.9865 | Pentachlorophenol |
| 0.486 | 0.500 | -0.0141 | N-Nitrosodimethylamine |
| 0.488 | 0.000 | 0.4879 | Pyridine |

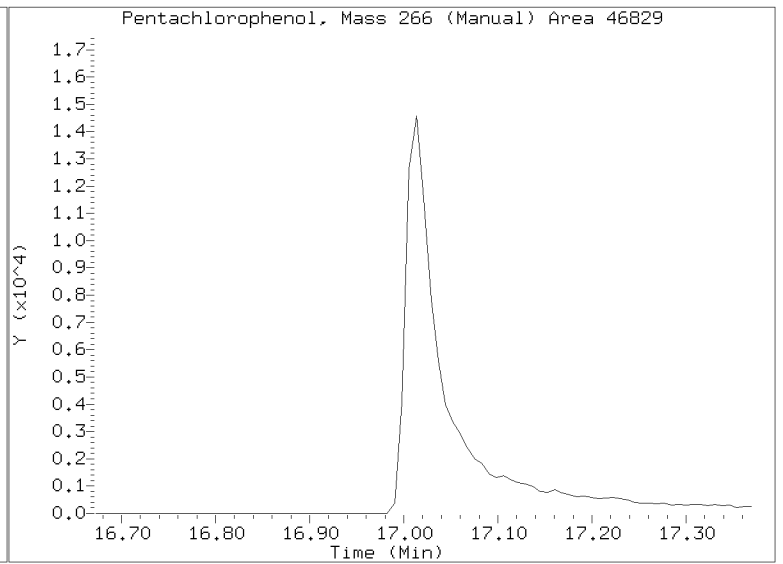
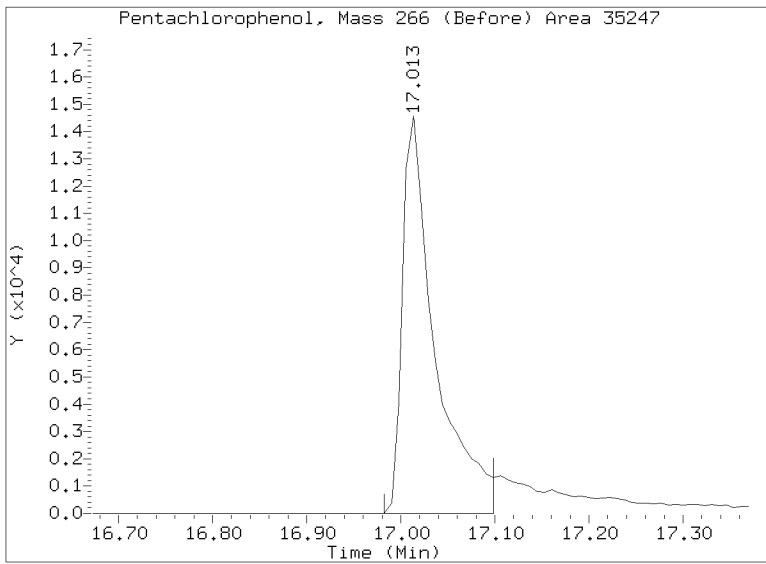
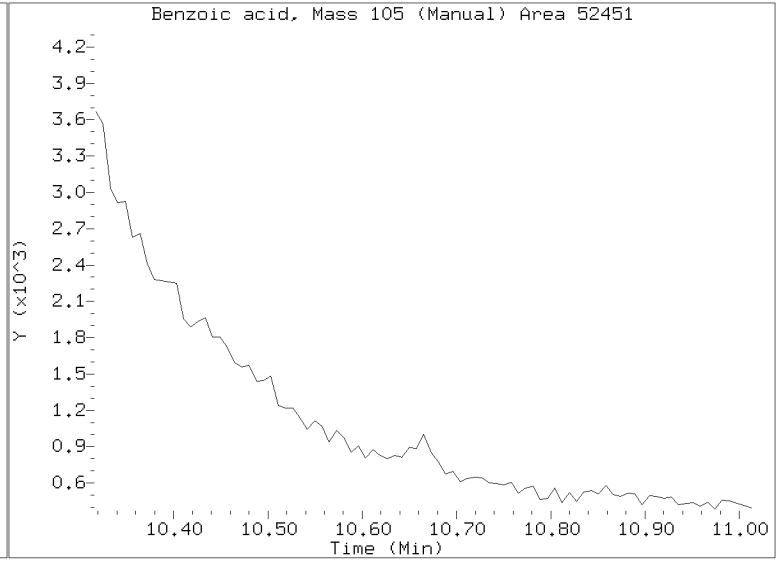
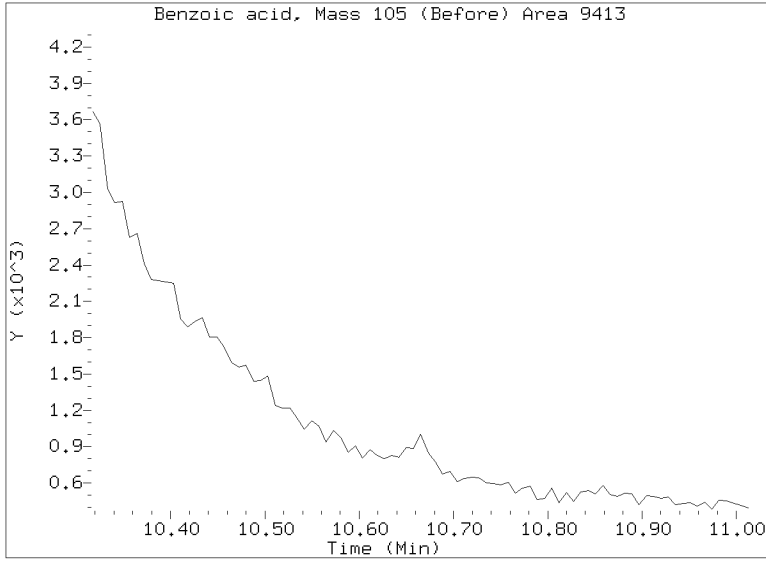
RRT check based on Ccal File: NT1423022808.D

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

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230228.b/NT1423022812.D
Injection Date: 28-FEB-2023 17:41
Lab ID:SLB0374-SCV1 Client ID:
Report Date: 03/10/2023 13:21





SECOND-SOURCE
CONTINUING CALIBRATION CHECK
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: NT10

Calibration: GC00046

Lab File ID: NT10031511.D

Calibration Date: 03/15/2023

Sequence: SLC0228

Injection Date: 03/16/23

Lab Sample ID: SLC0228-SCV1

Injection Time: 02:16

Sequence Name: SCV 5.0

| COMPOUND | TYPE | CONC. (ug/mL) | | RESPONSE FACTOR (RRF) | | | % DRIFT/DIFF | |
|-----------------------------|------|---------------|------|-----------------------|-----------|-----|--------------|-------|
| | | STD | CCV | ICAL | CCV | MIN | CCV | LIMIT |
| Phenol | A | 5.0000 | 4.4 | 1.6490140 | 1.4552130 | | -11.8 | +/-20 |
| 4-Methylphenol | A | 5.0000 | 4.4 | 1.2665770 | 1.1056260 | | -12.7 | +/-20 |
| Naphthalene | A | 5.0000 | 4.7 | 1.0596590 | 0.9996013 | | -5.7 | +/-20 |
| 2-Methylnaphthalene | A | 5.0000 | 4.6 | 0.7647129 | 0.7029502 | | -8.1 | +/-20 |
| Acenaphthylene | A | 5.0000 | 4.8 | 1.9964080 | 1.9185840 | | -3.9 | +/-20 |
| Dimethylphthalate | A | 5.0000 | 4.9 | 1.2994310 | 1.2831790 | | -1.3 | +/-20 |
| Acenaphthene | A | 5.0000 | 4.8 | 1.2333460 | 1.1780660 | | -4.5 | +/-20 |
| Dibenzofuran | A | 5.0000 | 4.6 | 1.8187540 | 1.6906760 | | -7.0 | +/-20 |
| Fluorene | A | 5.0000 | 4.7 | 1.4308680 | 1.3472940 | | -5.8 | +/-20 |
| Phenanthrene | A | 5.0000 | 4.6 | 1.0907130 | 1.0038520 | | -8.0 | +/-20 |
| Anthracene | A | 5.0000 | 4.2 | 1.0462760 | 0.8719973 | | -16.7 | +/-20 |
| Fluoranthene | A | 5.0000 | 4.5 | 1.6072690 | 1.4376960 | | -10.6 | +/-20 |
| Pyrene | A | 5.0000 | 4.3 | 1.6487720 | 1.4307800 | | -13.2 | +/-20 |
| Butylbenzylphthalate | A | 5.0000 | 4.8 | 0.5292894 | 0.5769788 | | -3.3 | +/-20 |
| Benzo(a)anthracene | A | 5.0000 | 4.6 | 1.4118770 | 1.3122590 | | -7.1 | +/-20 |
| Chrysene | A | 5.0000 | 4.5 | 1.3793780 | 1.2442450 | | -9.8 | +/-20 |
| bis(2-Ethylhexyl)phthalate | A | 5.0000 | 4.7 | 0.5248968 | 0.5492136 | | -6.4 | +/-20 |
| Benzo(a)fluoranthene, Total | A | 10.000 | 9.5 | 1.2519020 | 1.1872400 | | -5.2 | +/-20 |
| Benzo(a)pyrene | A | 5.0000 | 4.9 | 1.1592370 | 1.1298800 | | -2.5 | +/-20 |
| Indeno(1,2,3-cd)pyrene | A | 5.0000 | 4.6 | 1.4748270 | 1.3499250 | | -8.5 | +/-20 |
| Dibenzo(a,h)anthracene | A | 5.0000 | 4.5 | 1.2244340 | 1.1134110 | | -9.1 | +/-20 |
| Benzo(g,h,i)perylene | A | 5.0000 | 4.6 | 1.2763410 | 1.1716820 | | -8.2 | +/-20 |
| 2-Fluorophenol | A | | 0.00 | 1.2096460 | | | | +/-20 |
| Phenol-d5 | A | | 0.00 | 1.5868760 | | | | +/-20 |
| 2-Chlorophenol-d4 | A | | 0.00 | 1.3550800 | | | | +/-20 |
| 1,2-Dichlorobenzene-d4 | A | | 0.00 | 0.9731556 | | | | +/-20 |
| Nitrobenzene-d5 | A | | 0.00 | 0.4037447 | | | | +/-20 |
| 2-Fluorobiphenyl | A | | 0.00 | 1.5822890 | | | | +/-20 |
| 2,4,6-Tribromophenol | A | | 0.00 | 0.1585901 | | | | +/-20 |
| p-Terphenyl-d14 | A | | 0.00 | 1.2381950 | | | | +/-20 |

* Values outside of QC limits

Data File: \\target\share\chem3\nt10.1\20230315.6\NT10031511.D

Date: 16-MAR-2023 02:16

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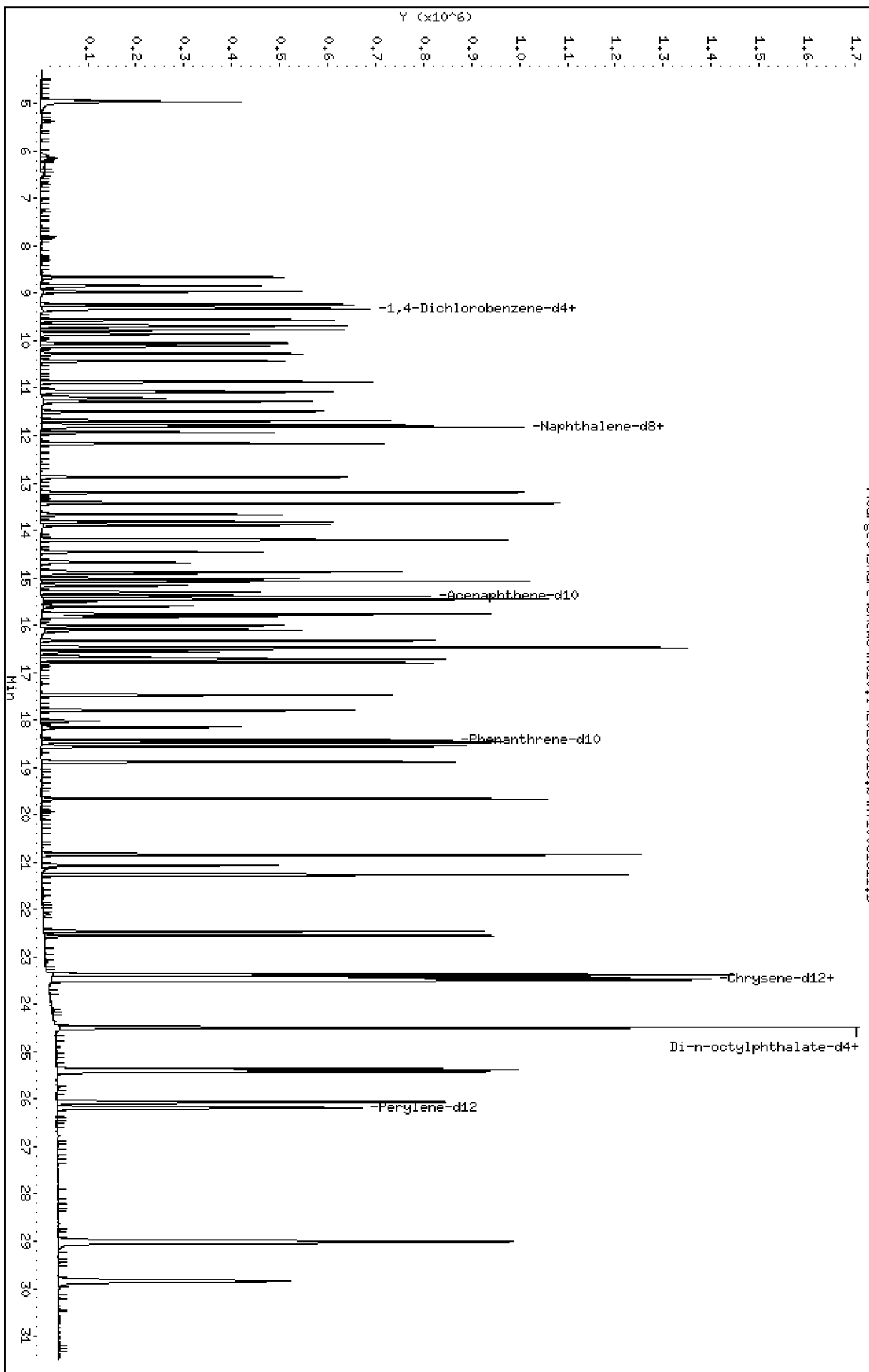
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Instrument: nt10.1

Operator: VTS

Column diameter: 0.25

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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

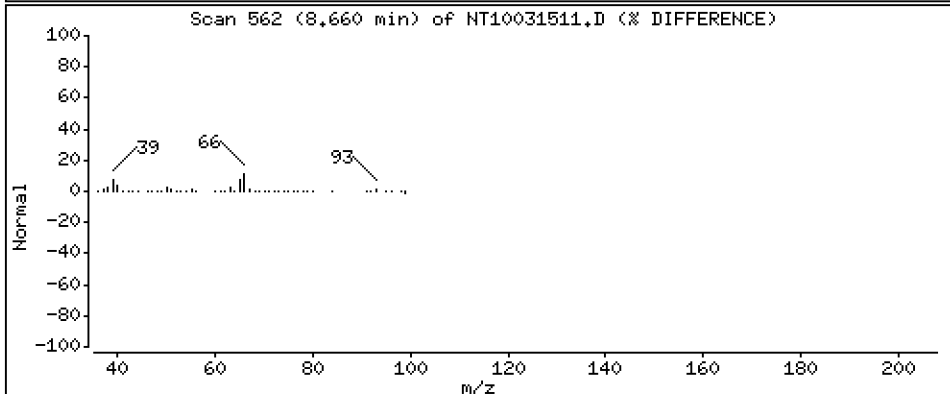
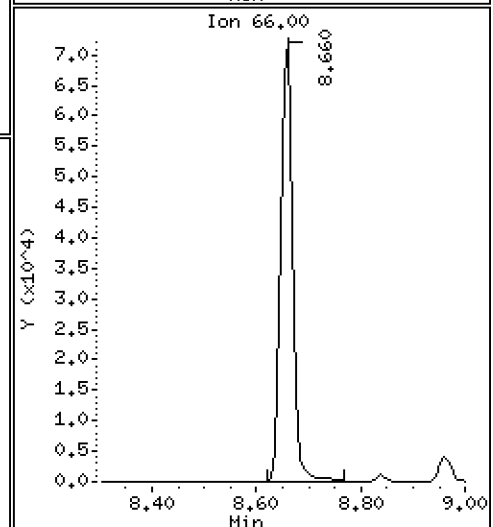
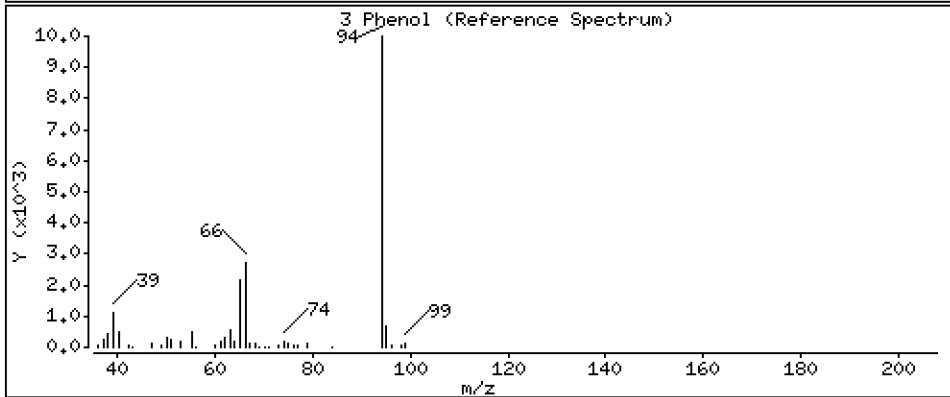
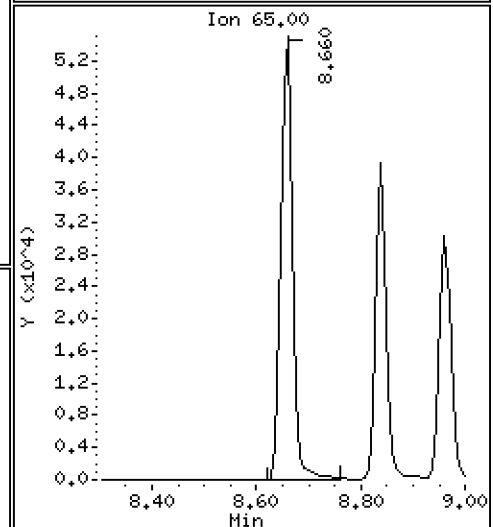
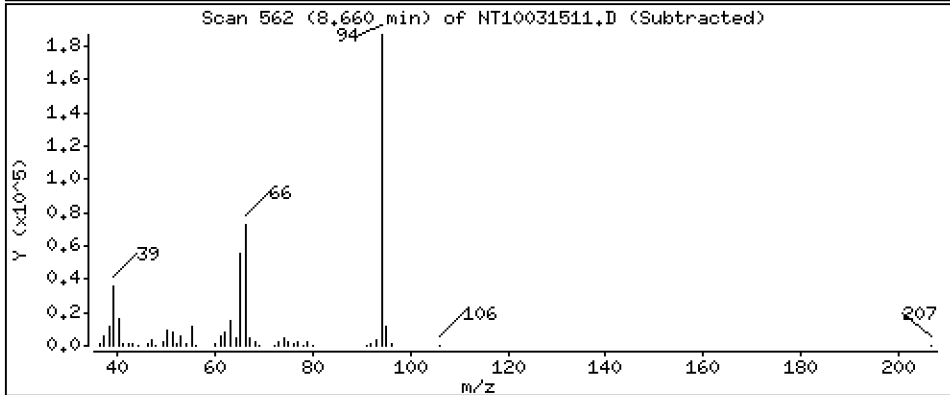
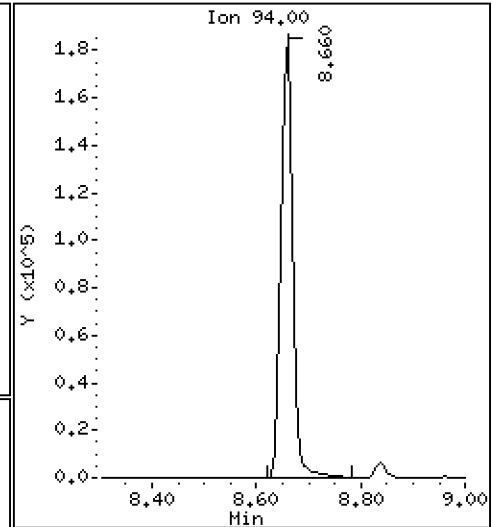
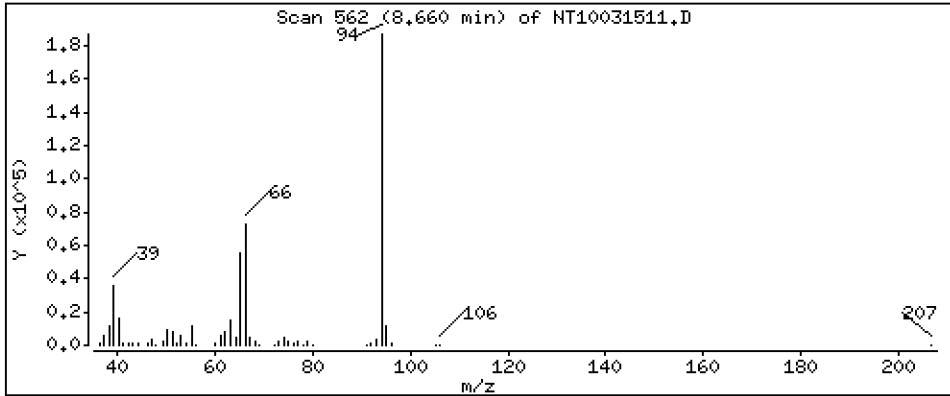
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 4,412 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

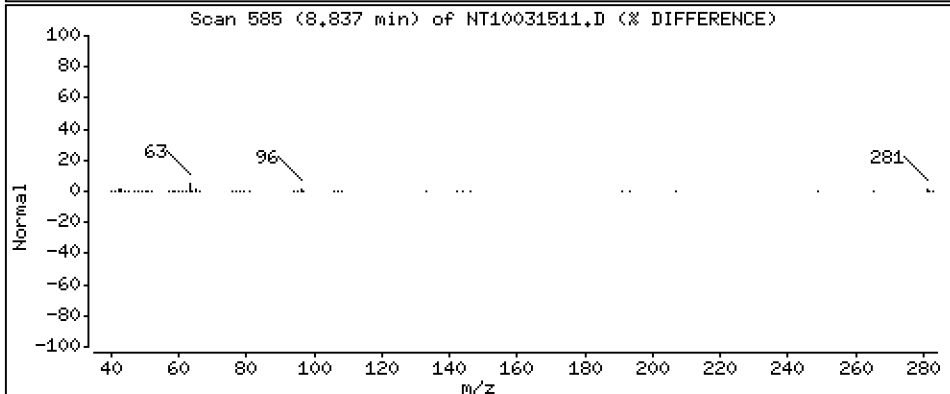
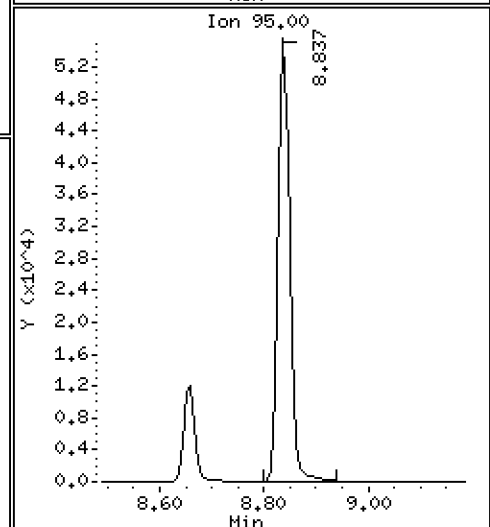
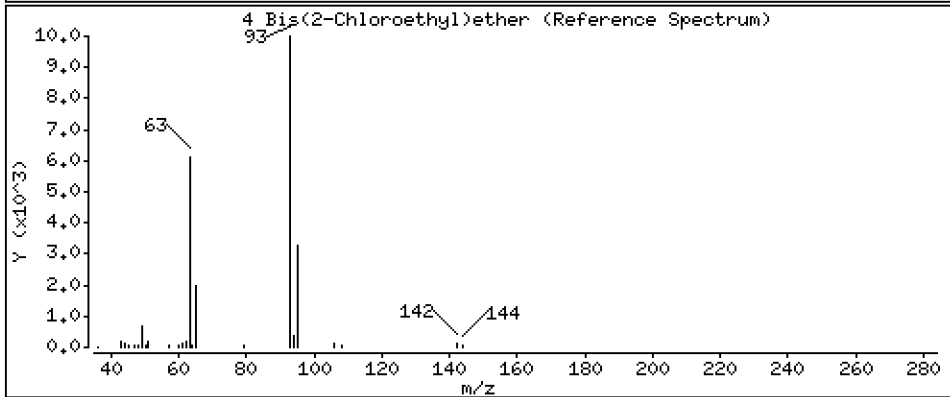
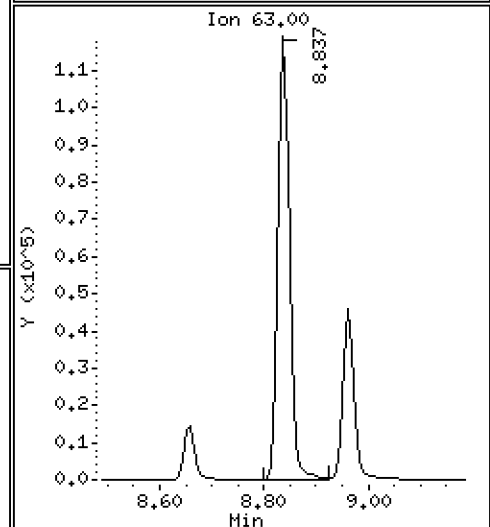
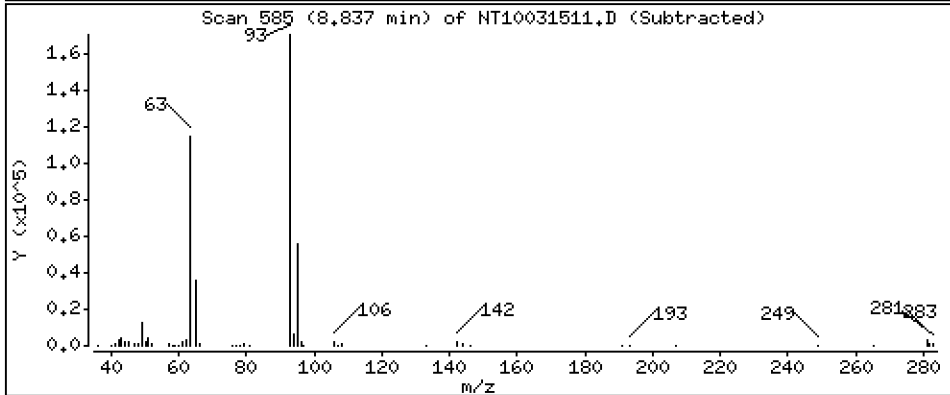
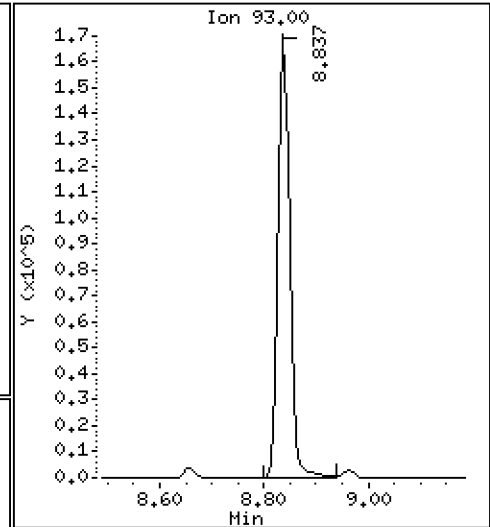
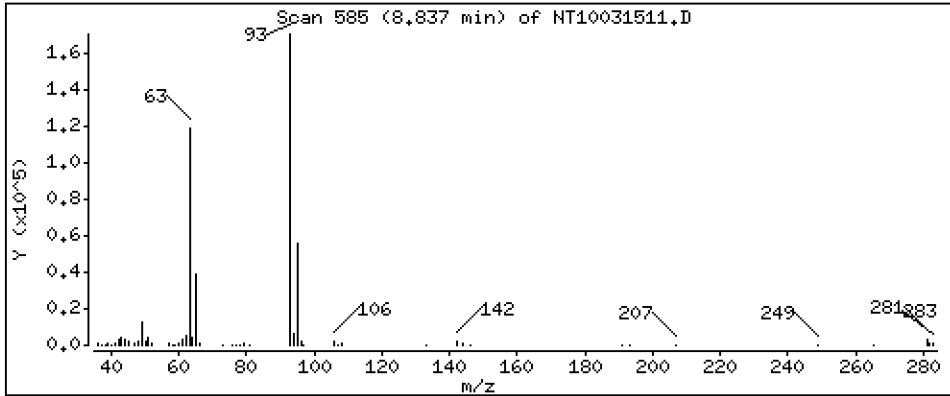
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

4 Bis(2-Chloroethyl)ether

Concentration: 5,258 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

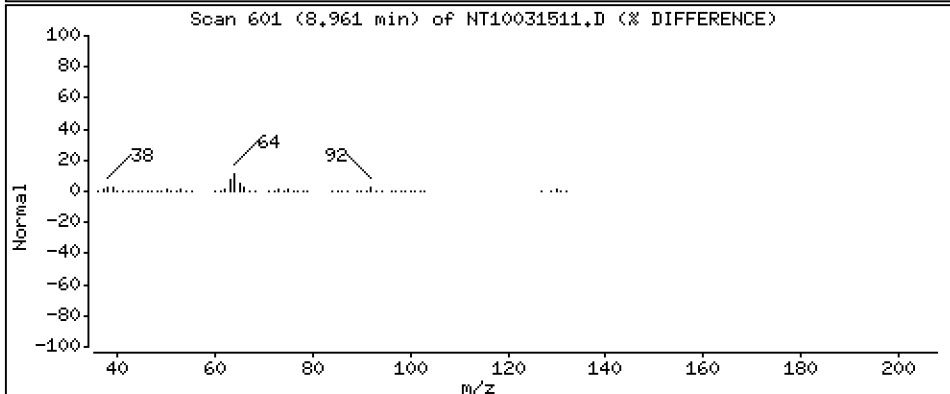
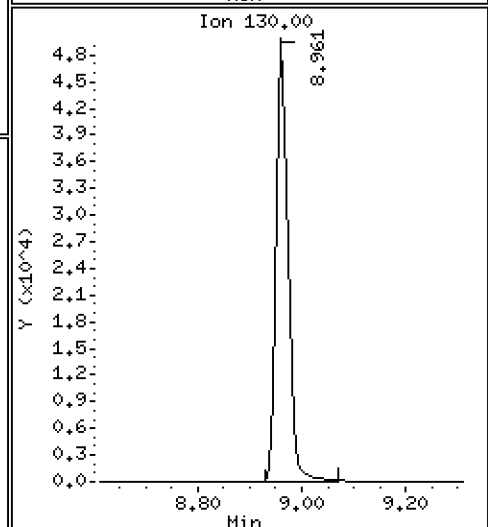
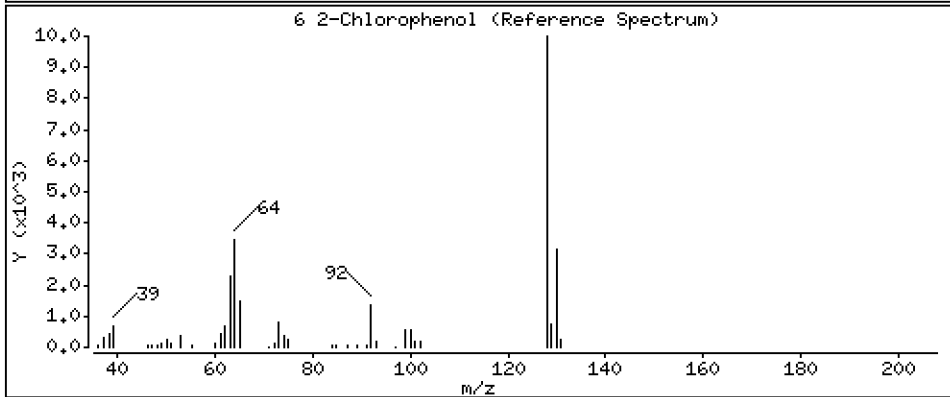
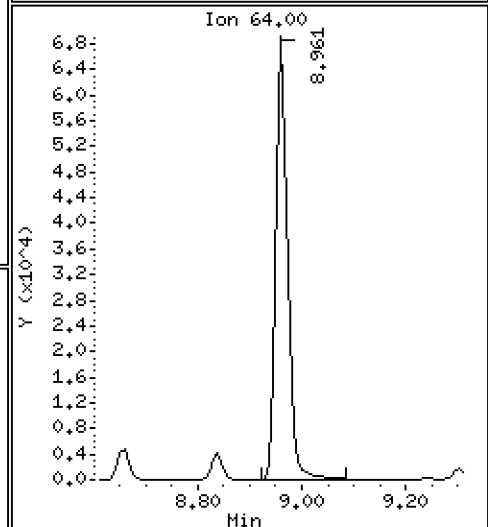
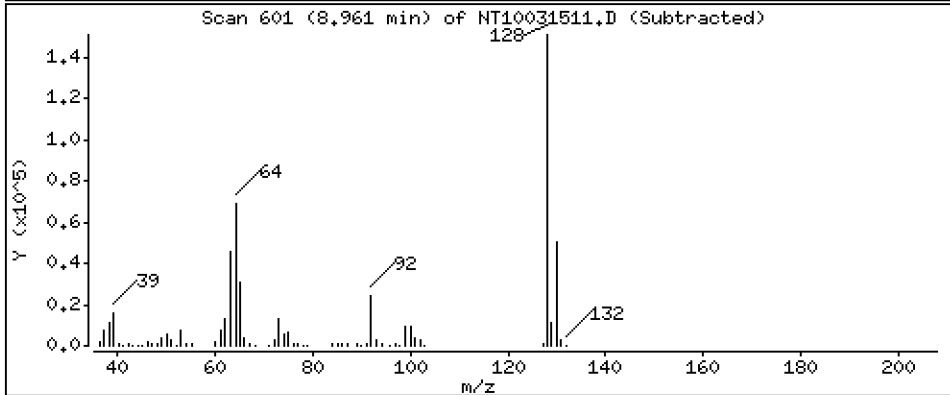
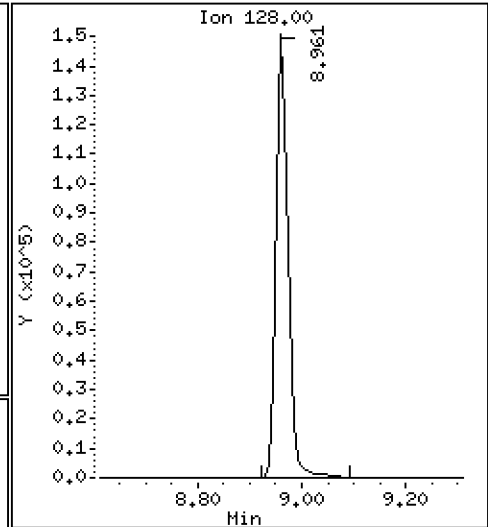
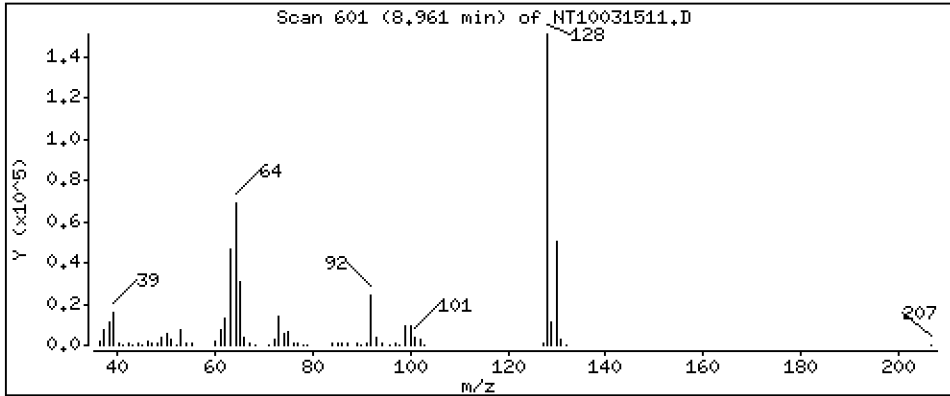
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 4,277 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

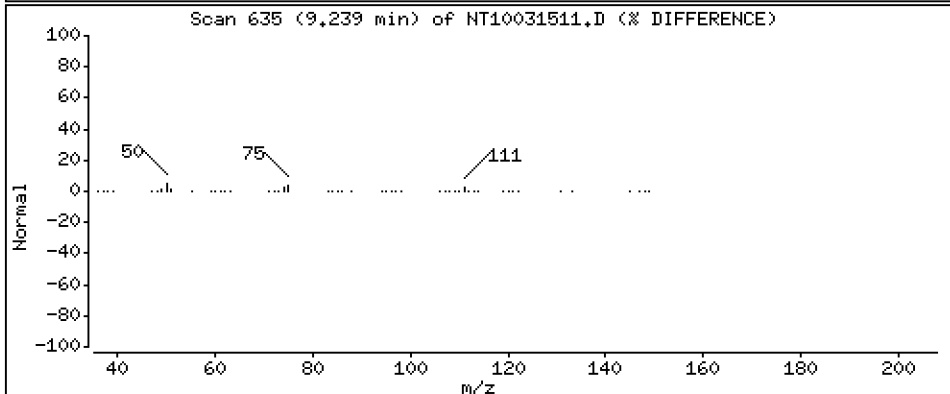
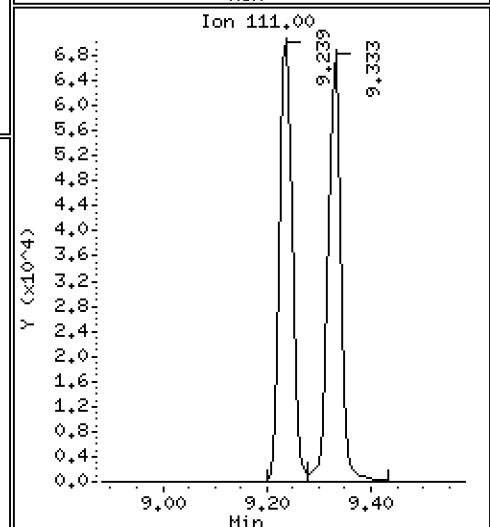
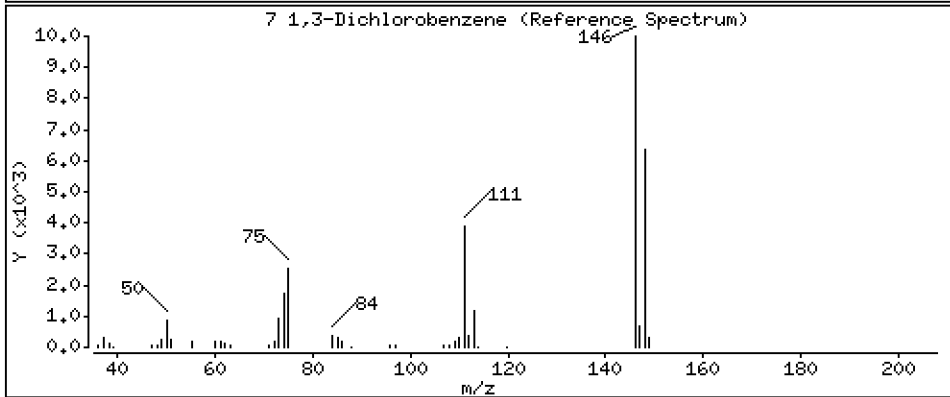
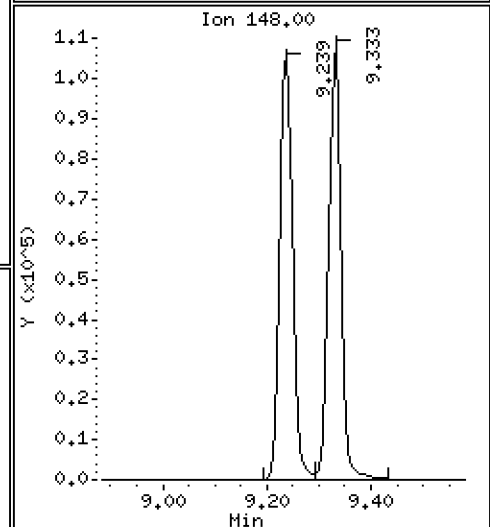
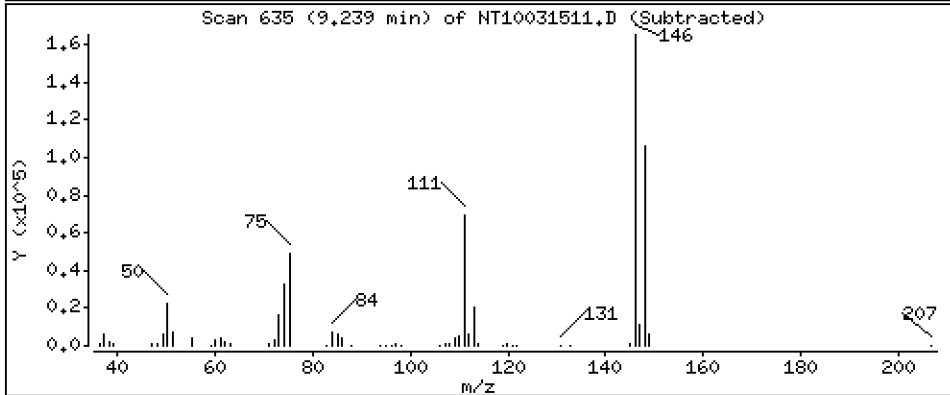
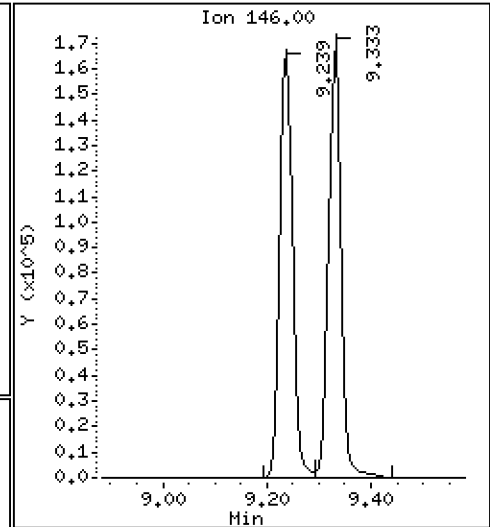
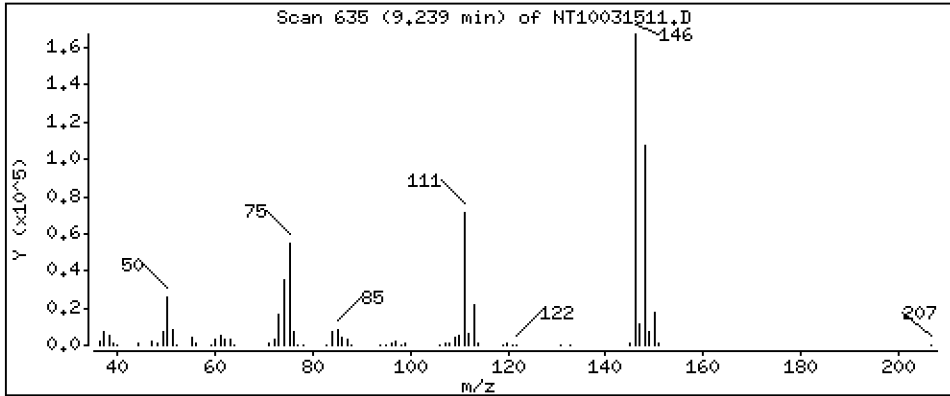
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

7 1,3-Dichlorobenzene

Concentration: 4.772 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

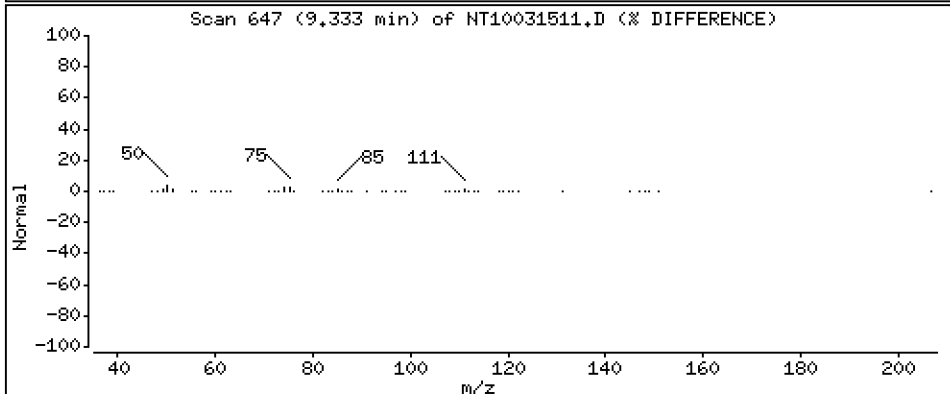
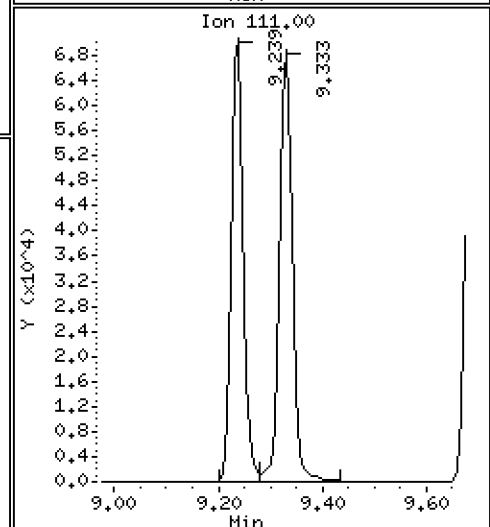
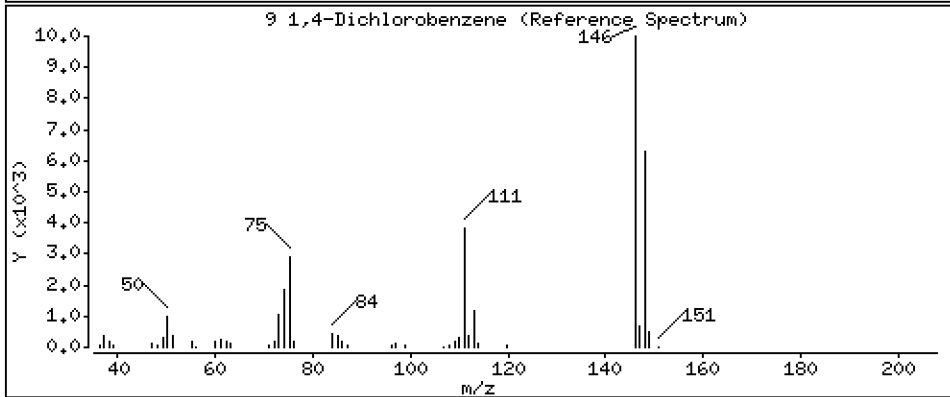
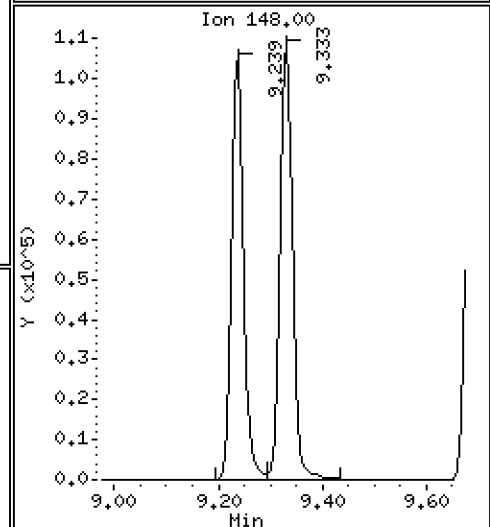
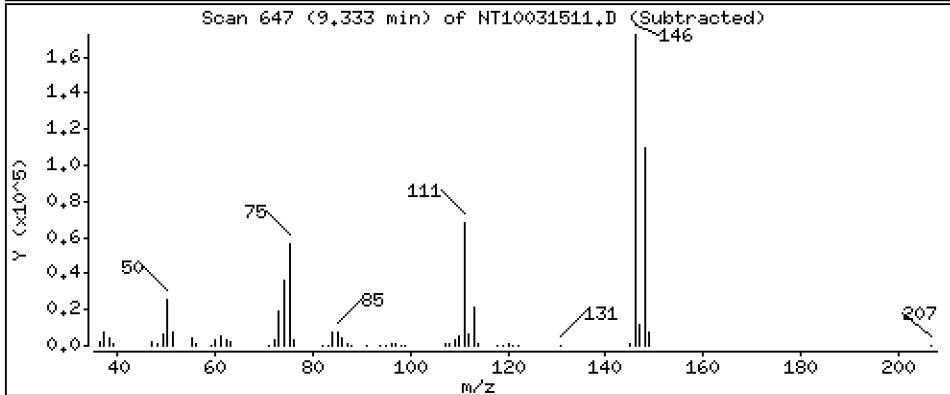
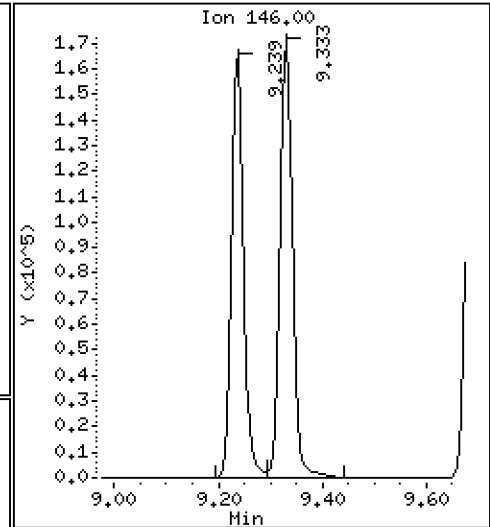
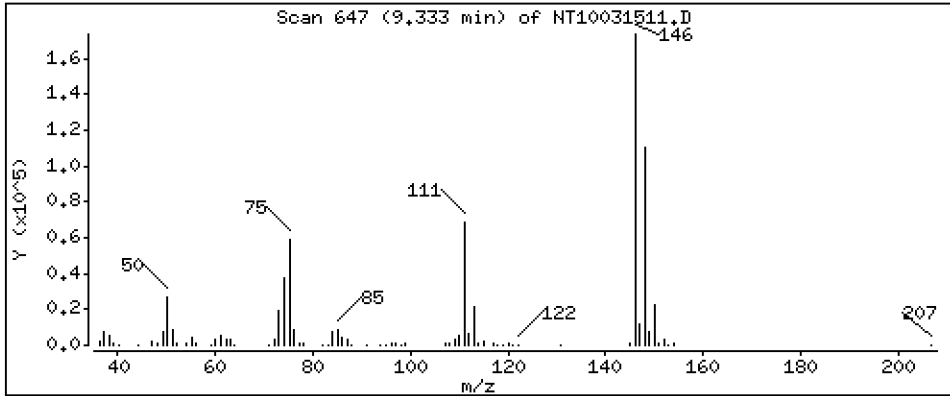
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 4,913 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

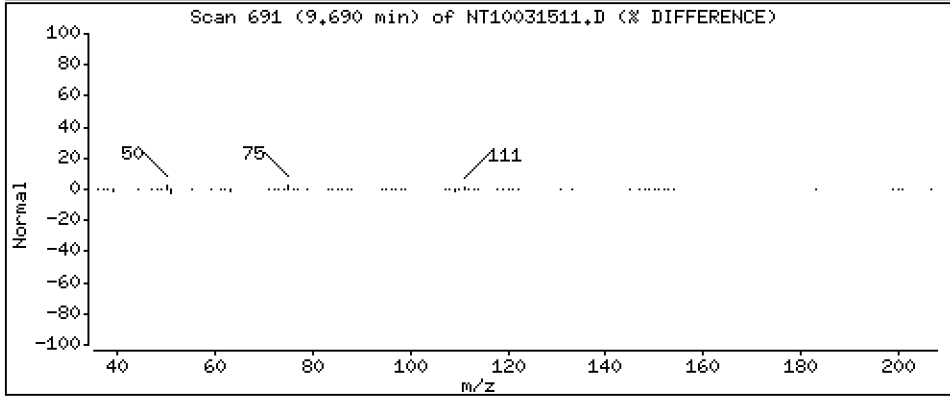
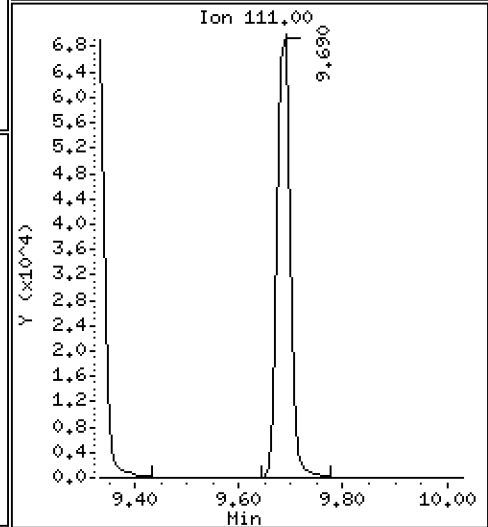
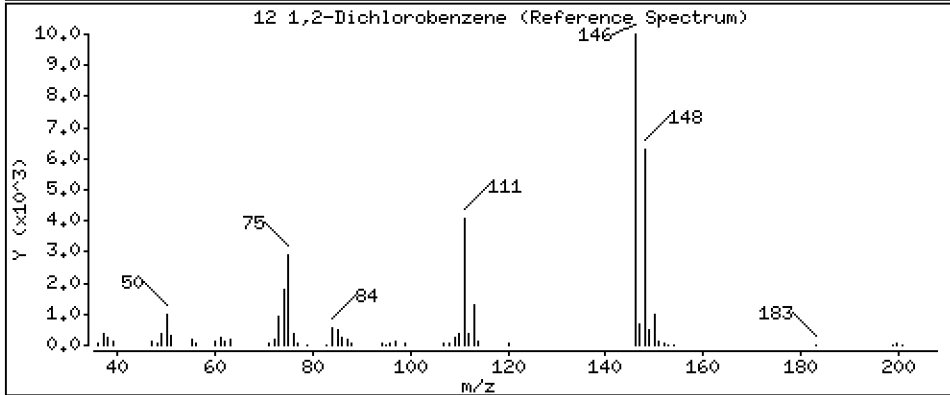
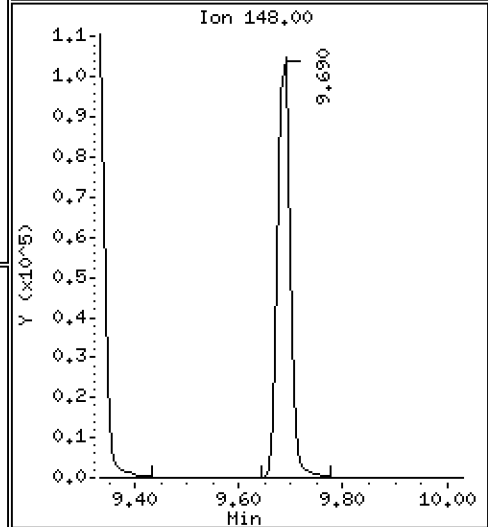
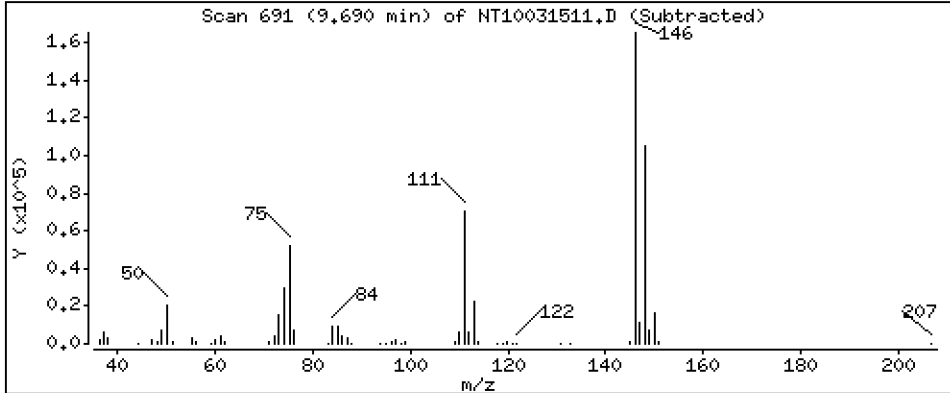
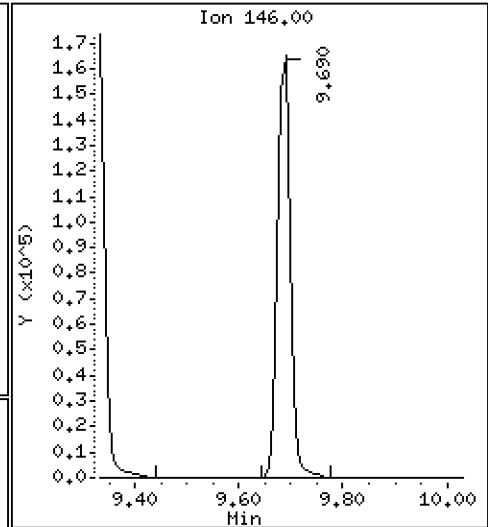
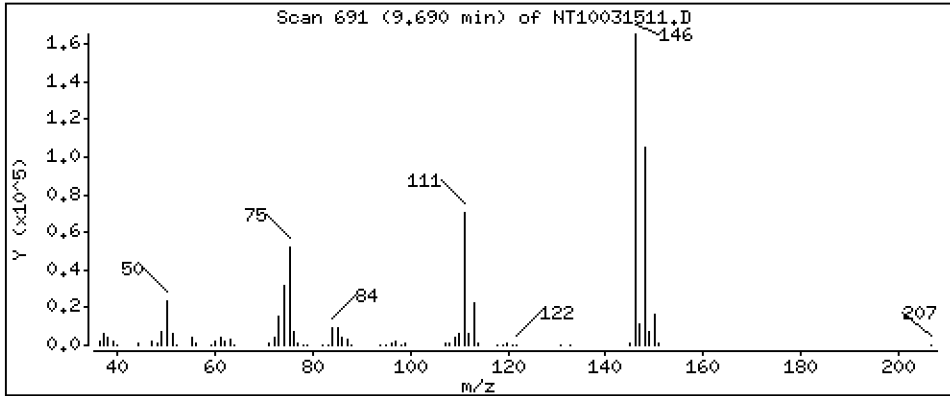
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

12 1,2-Dichlorobenzene

Concentration: 4,882 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

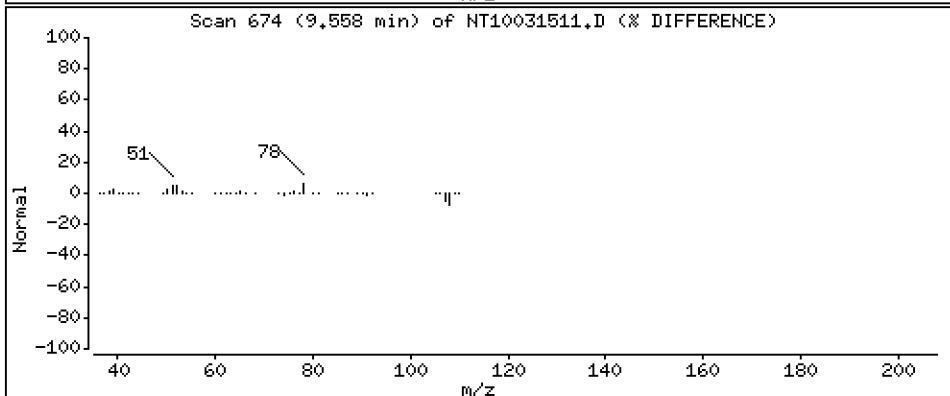
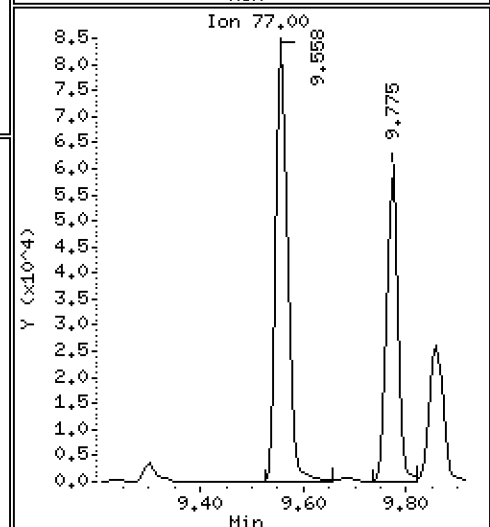
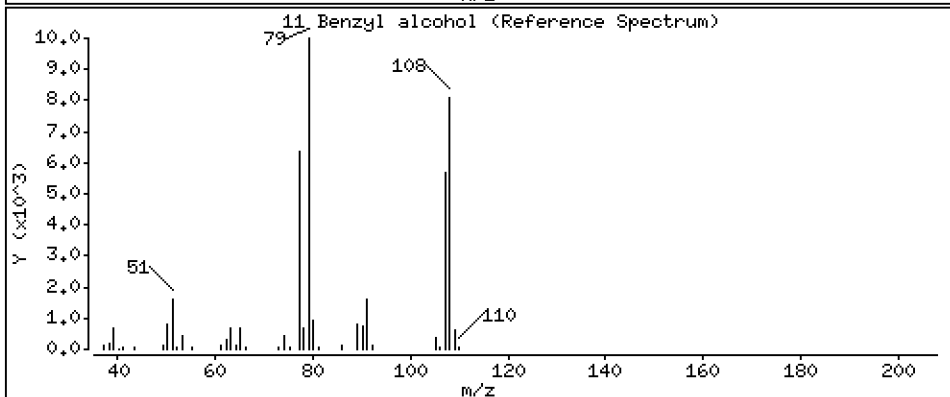
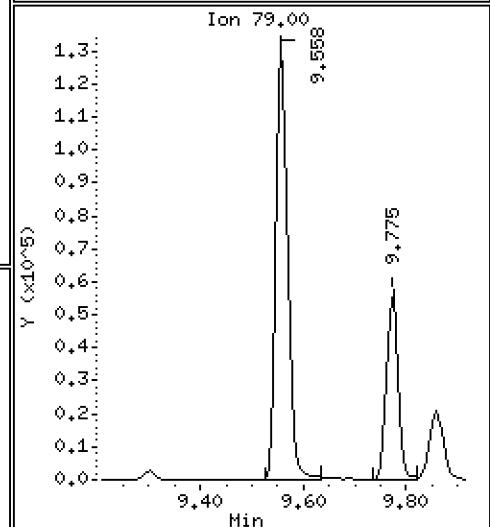
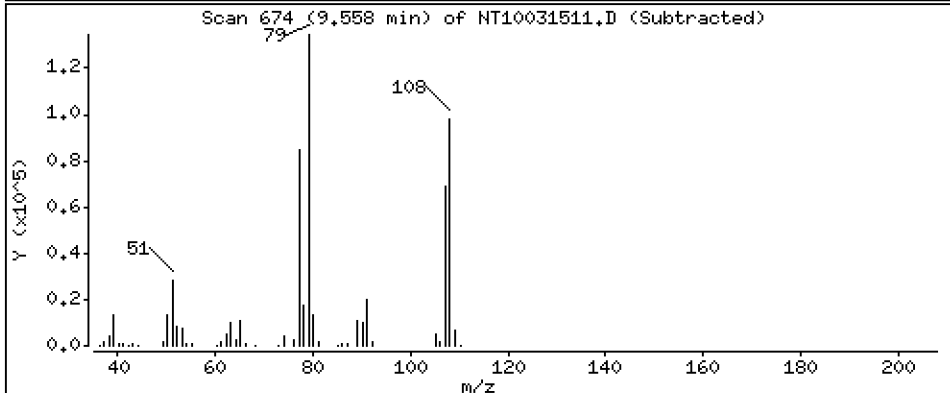
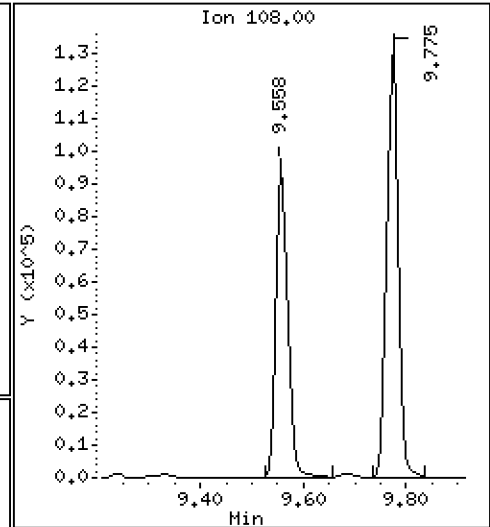
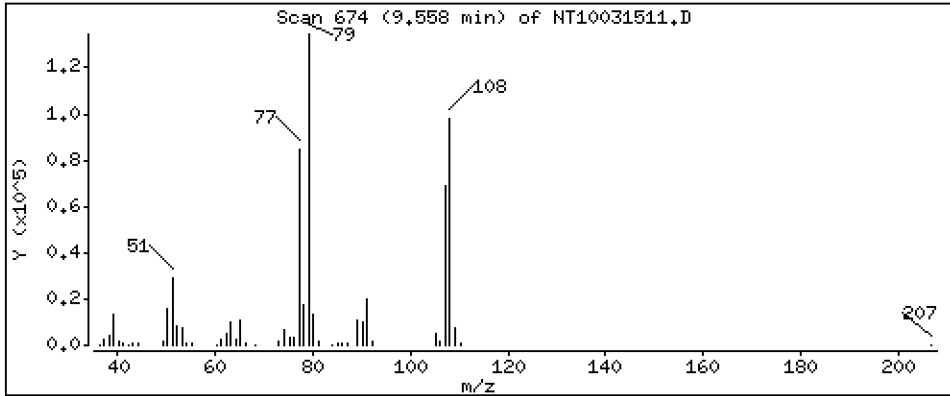
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 4.927 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

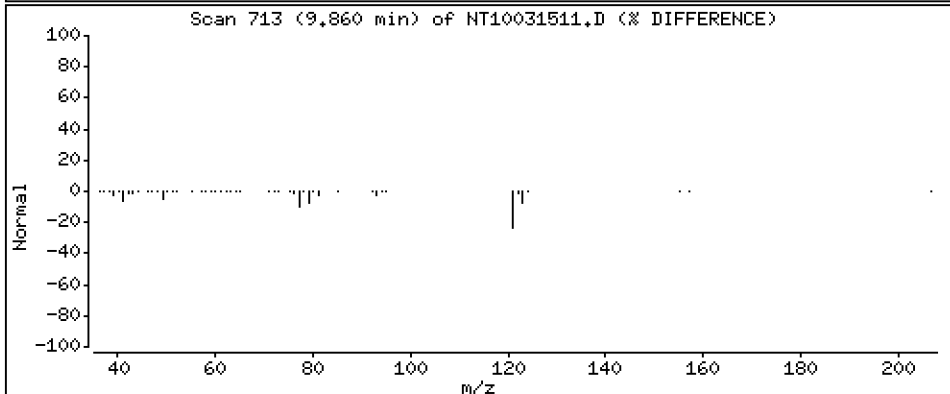
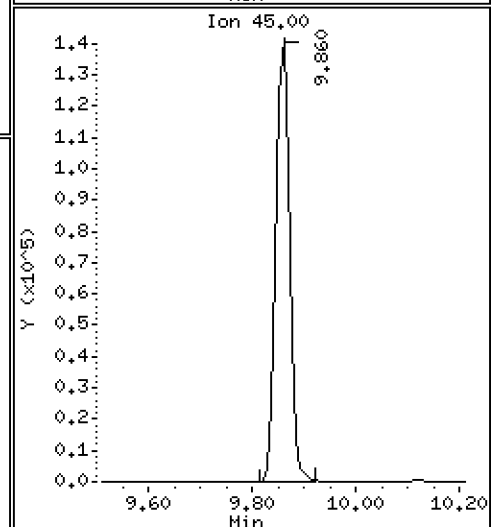
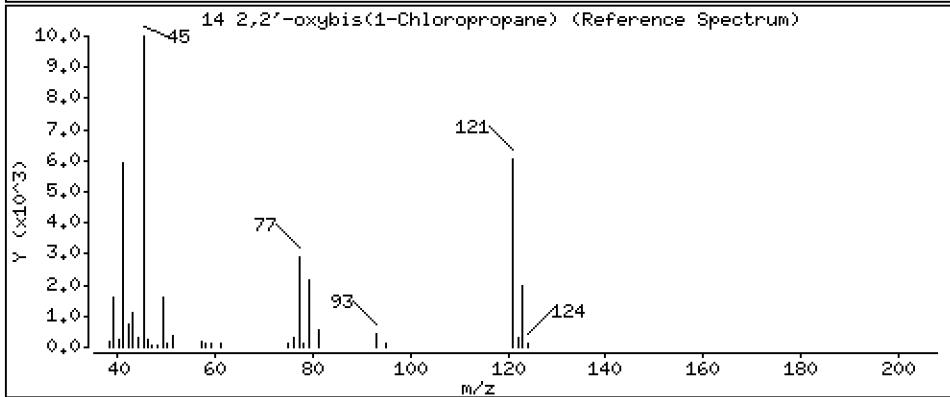
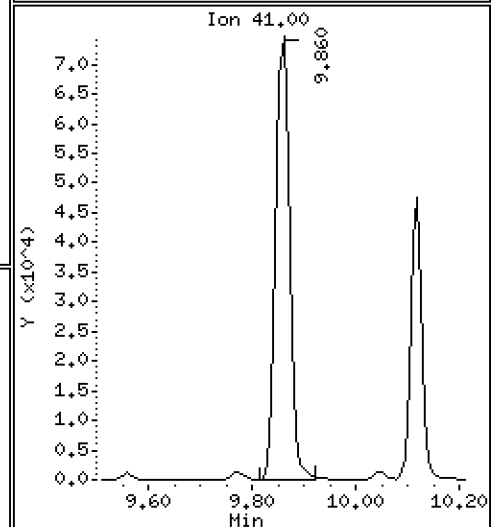
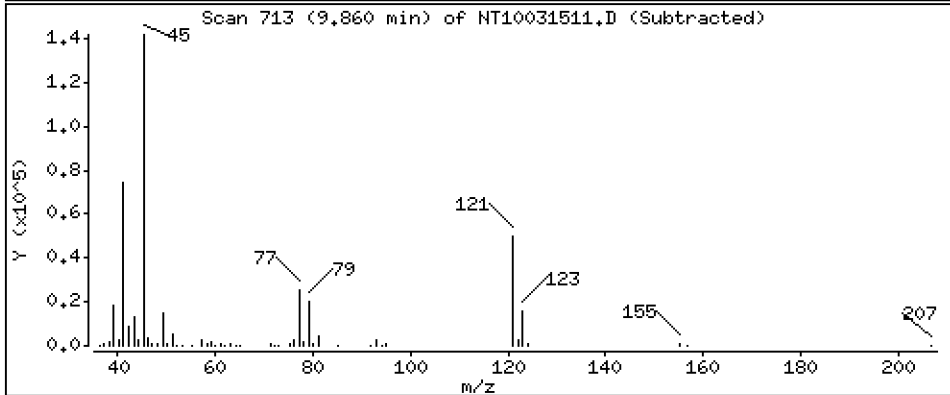
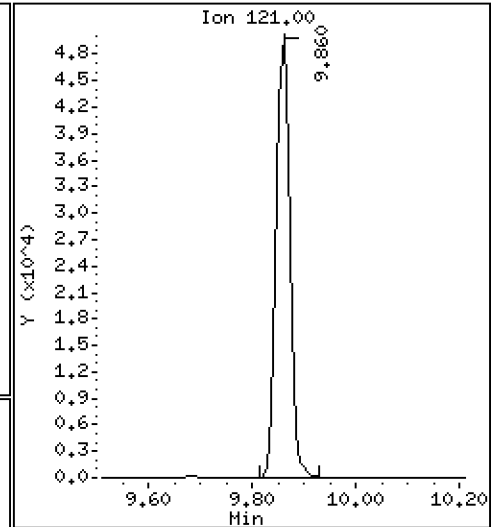
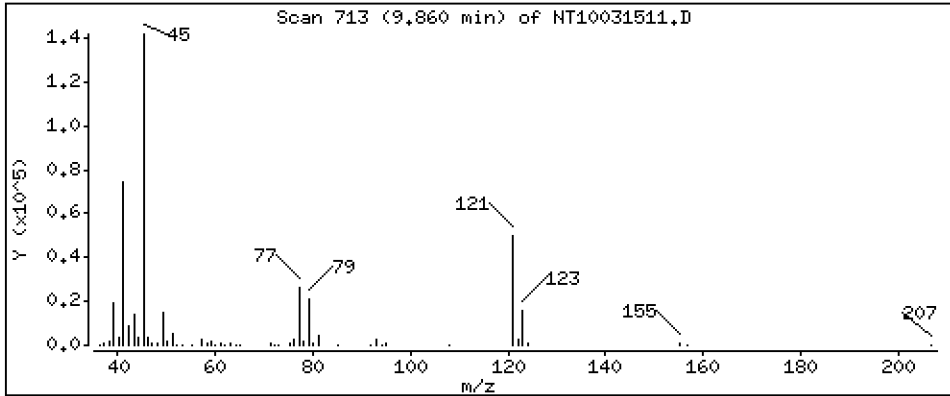
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 6,214 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

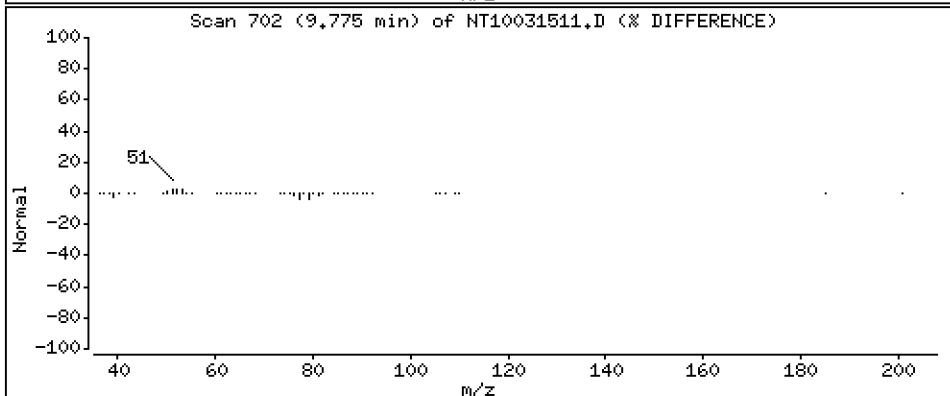
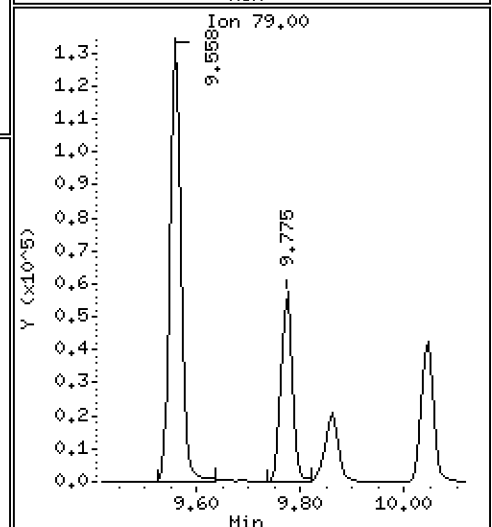
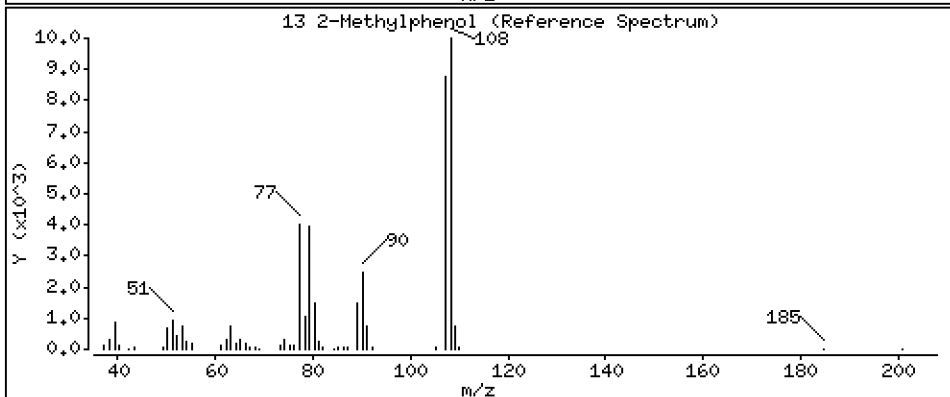
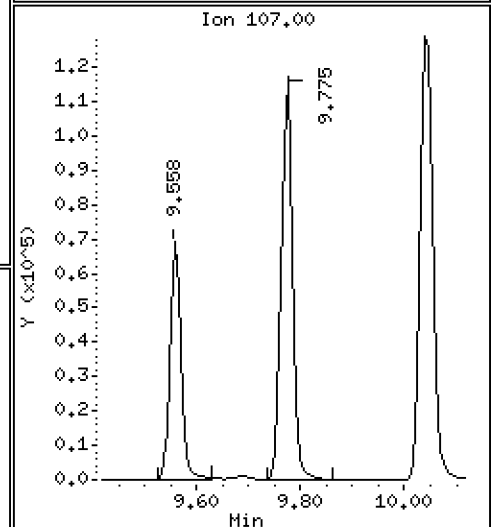
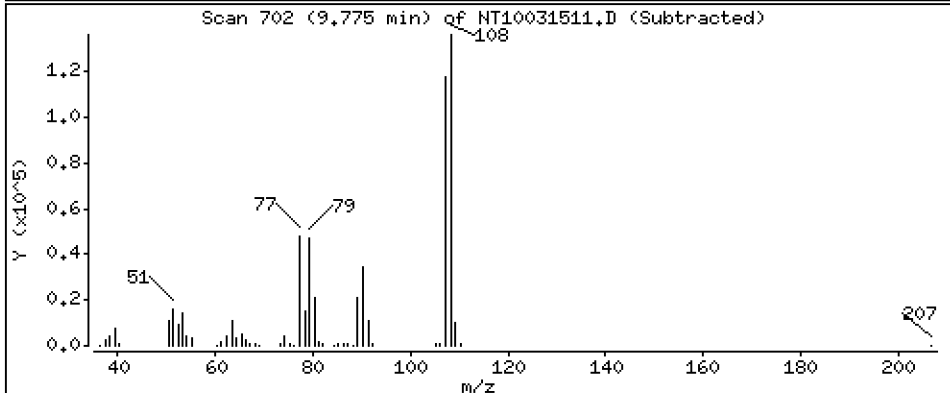
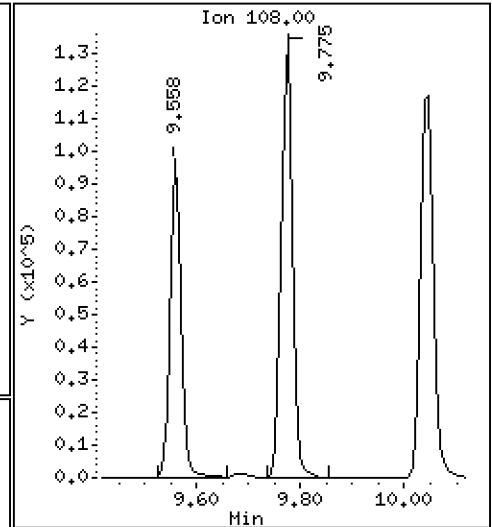
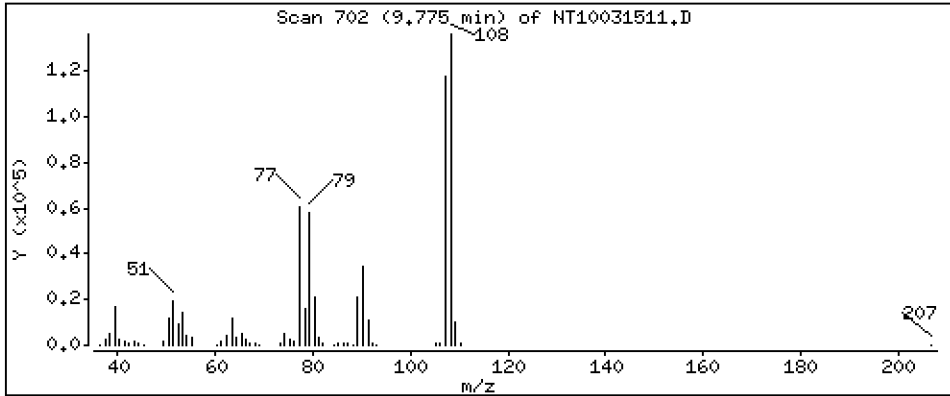
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

13 2-Methylphenol

Concentration: 4,215 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

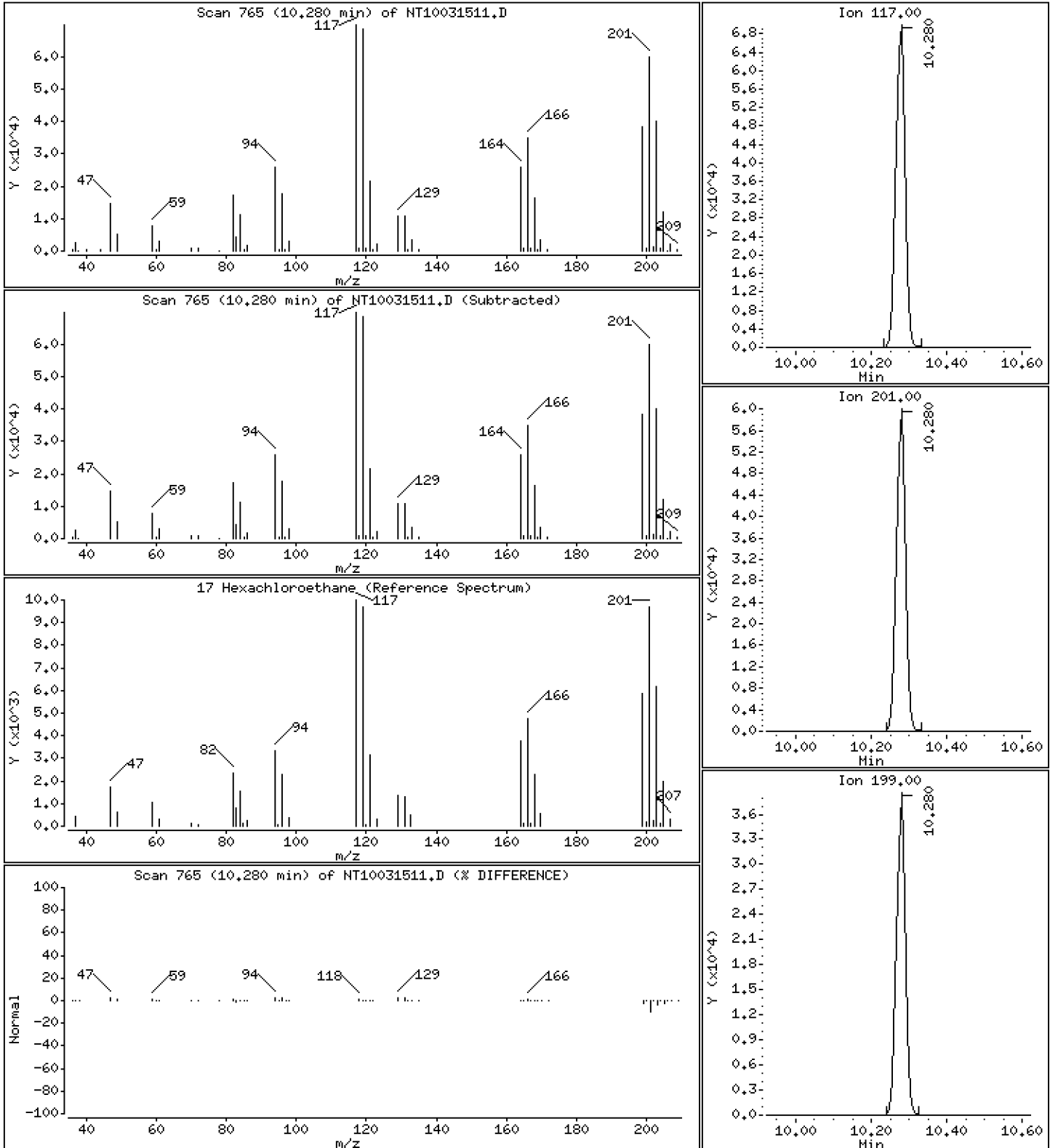
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

17 Hexachloroethane

Concentration: 5,003 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

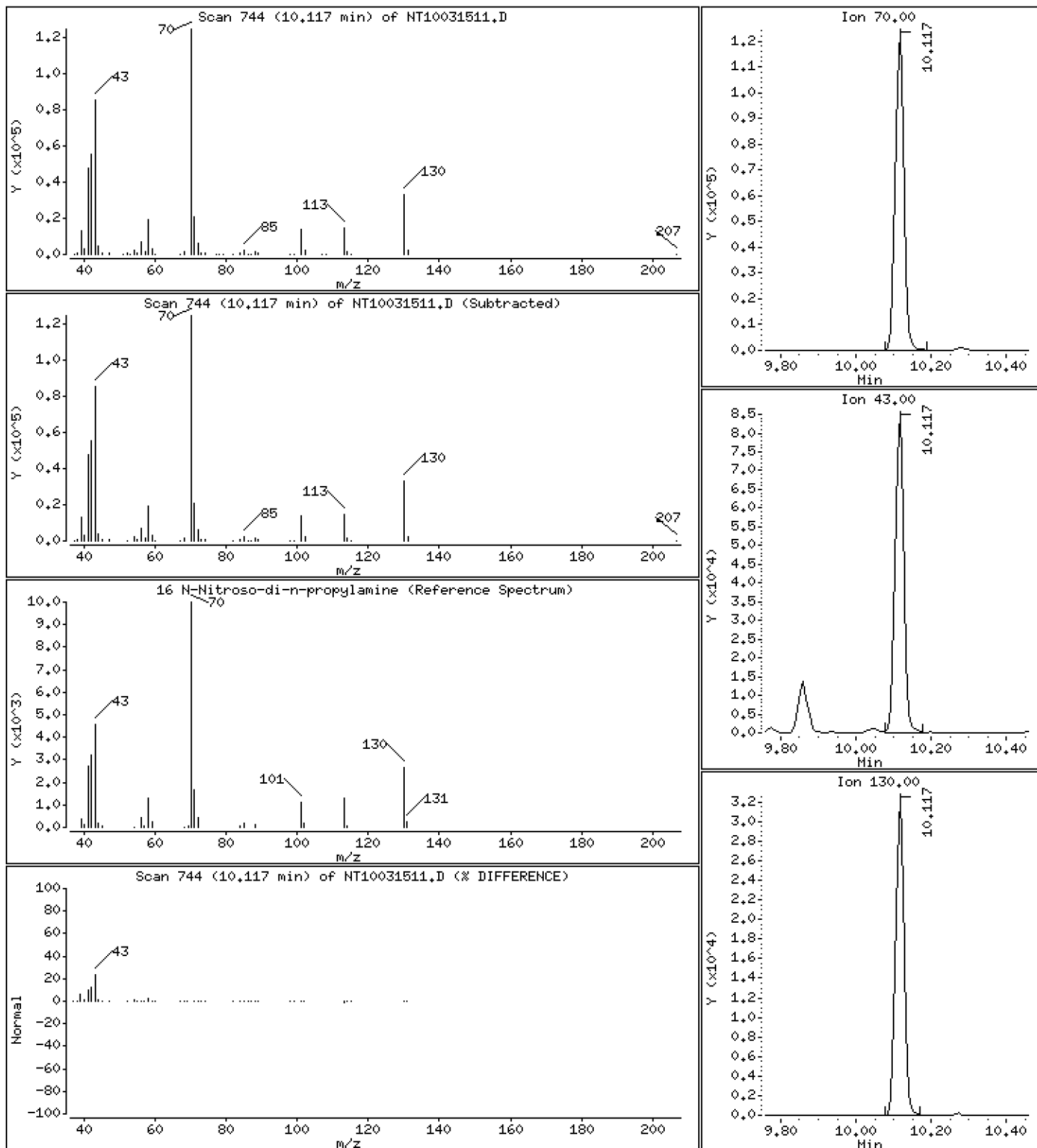
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

16 N-Nitroso-di-n-propylamine

Concentration: 5,179 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

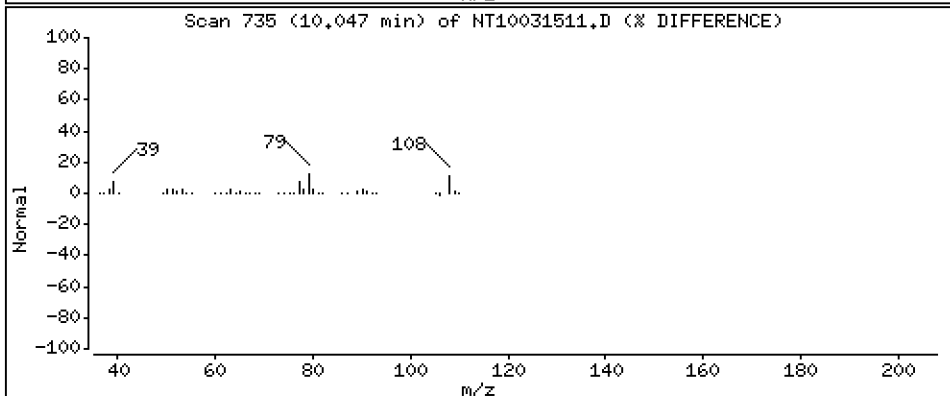
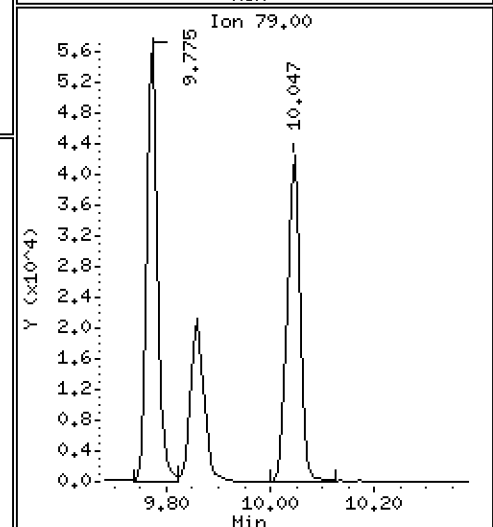
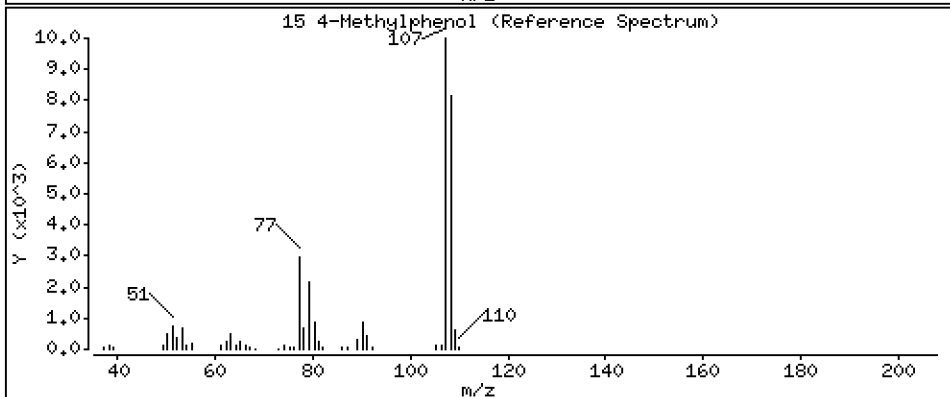
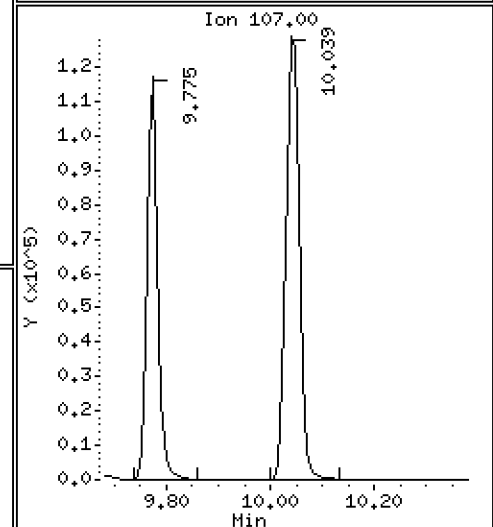
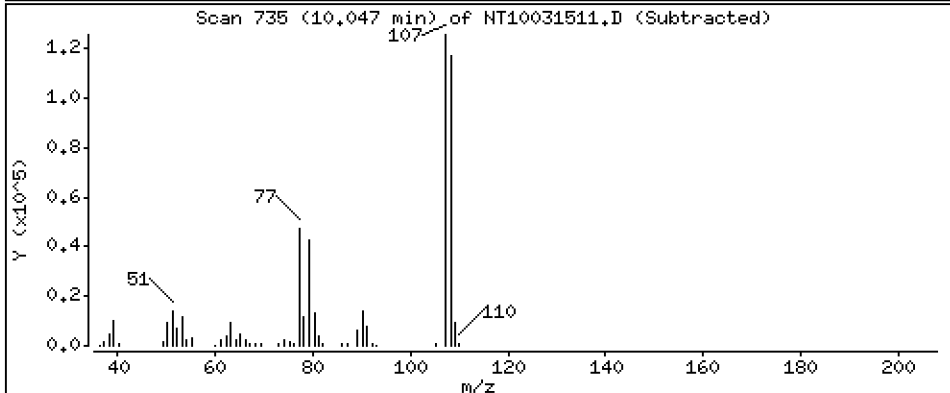
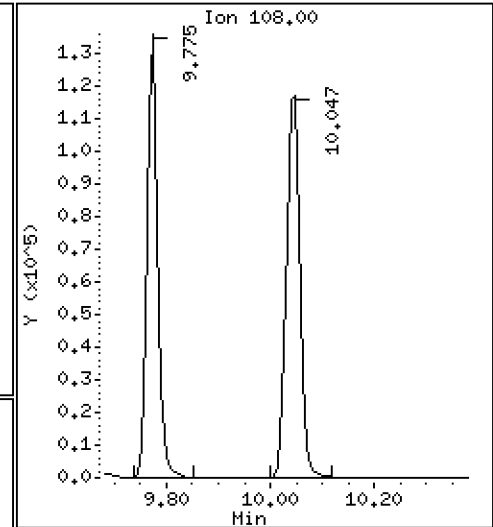
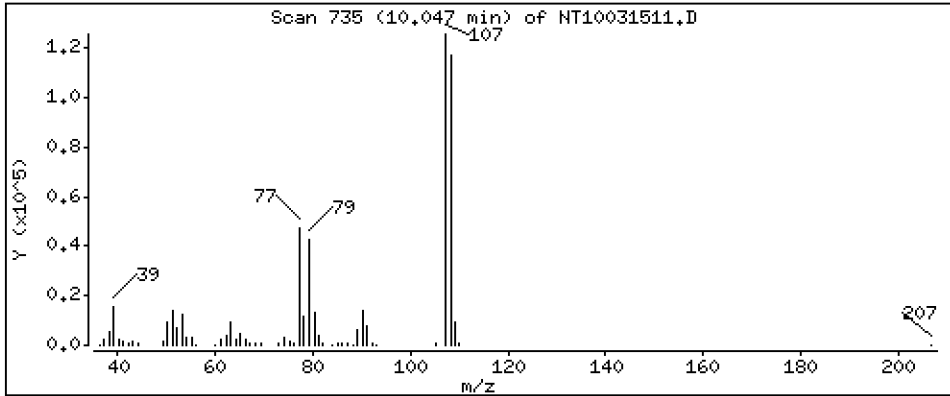
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

15 4-Methylphenol

Concentration: 4,365 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

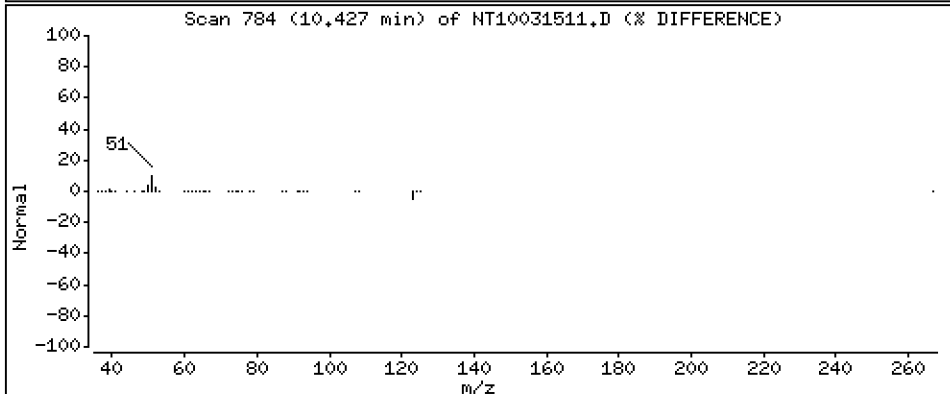
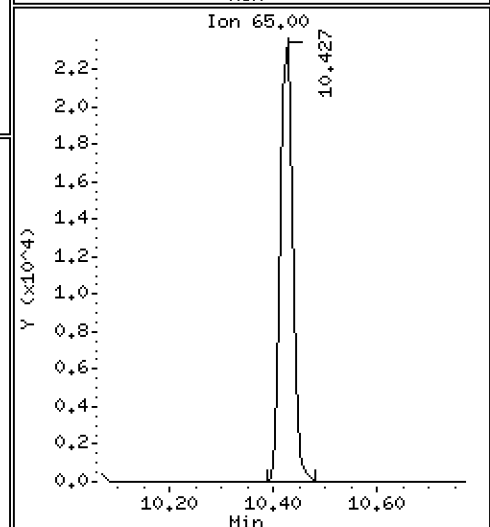
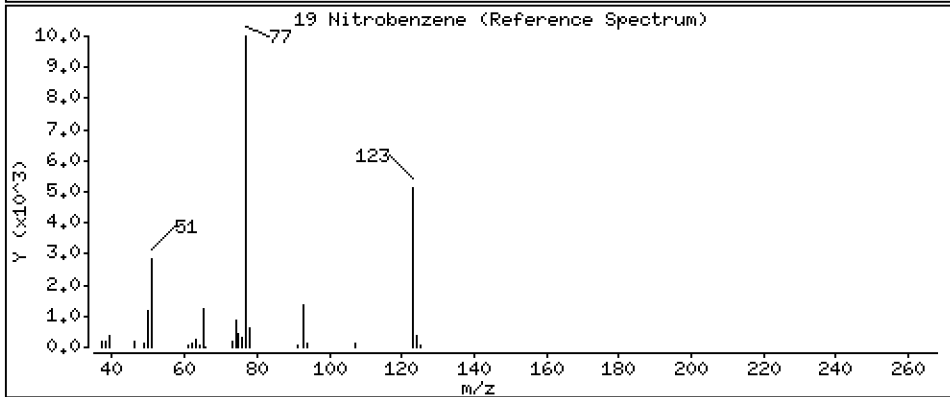
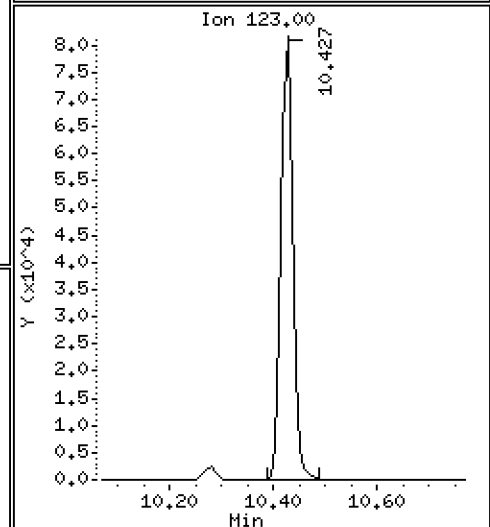
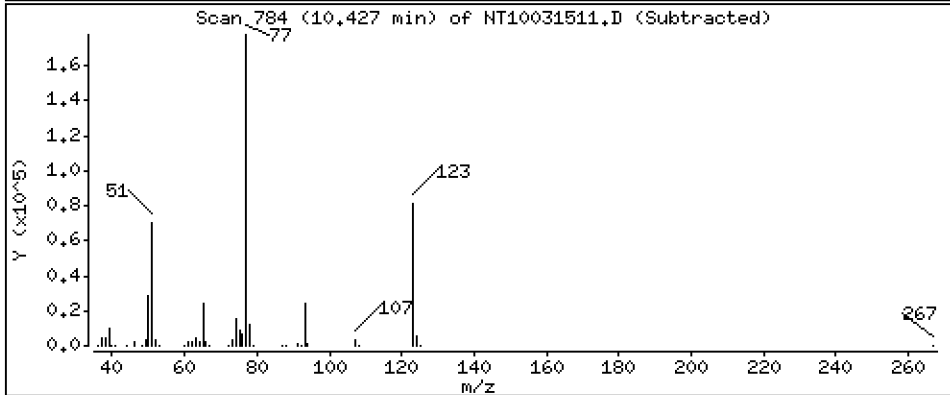
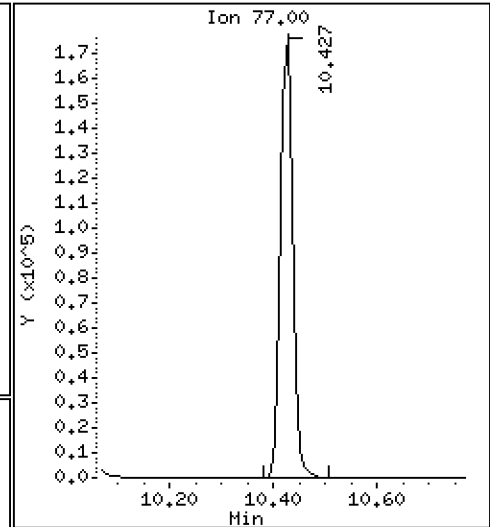
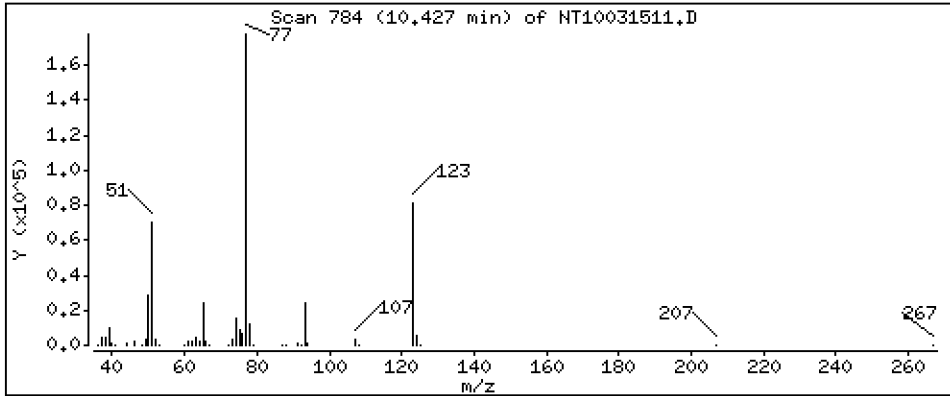
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

19 Nitrobenzene

Concentration: 4,858 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

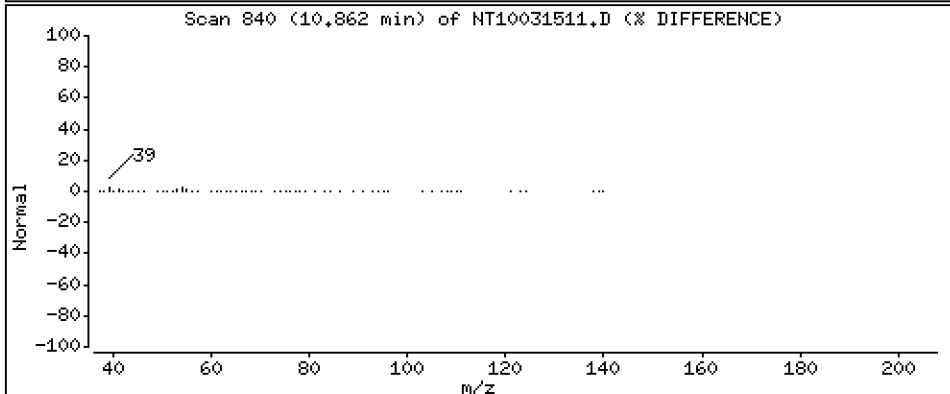
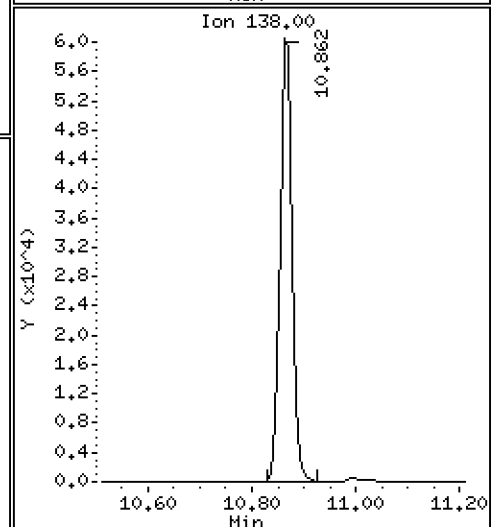
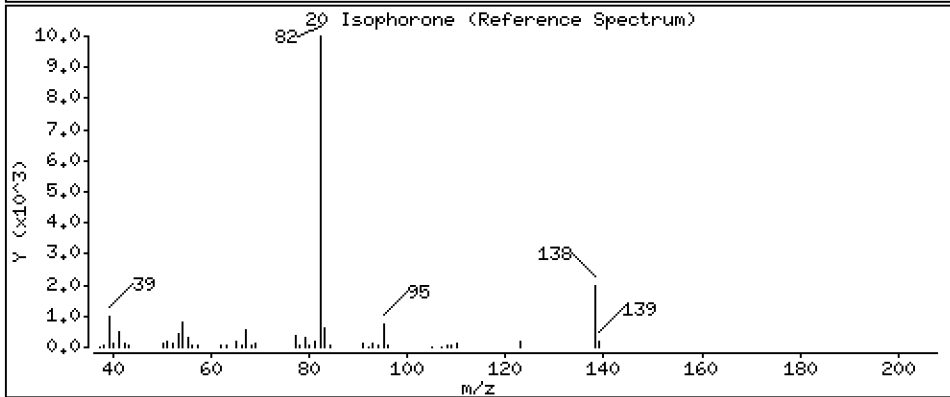
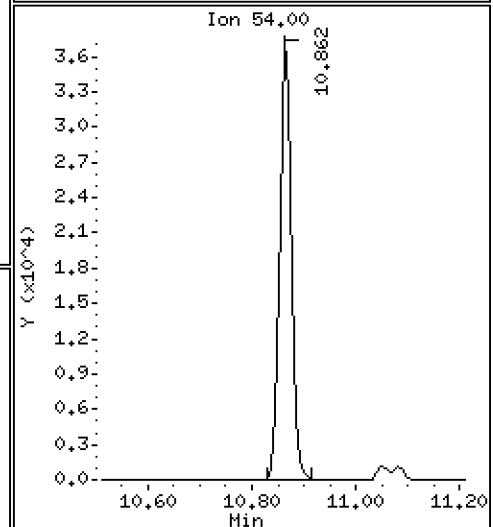
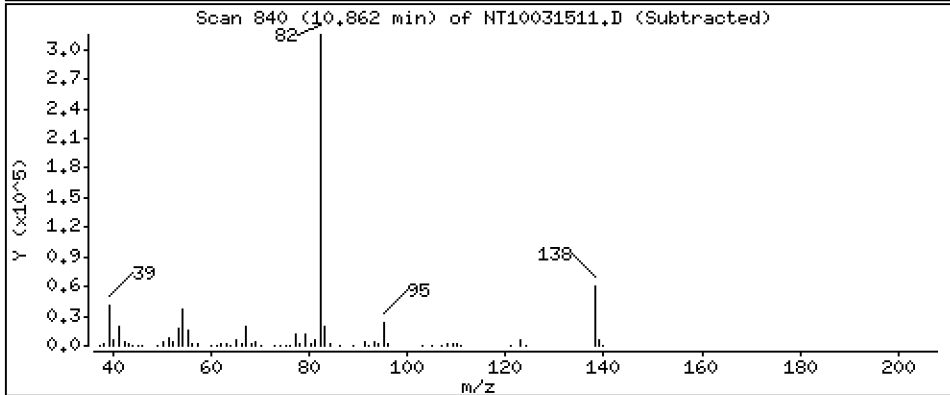
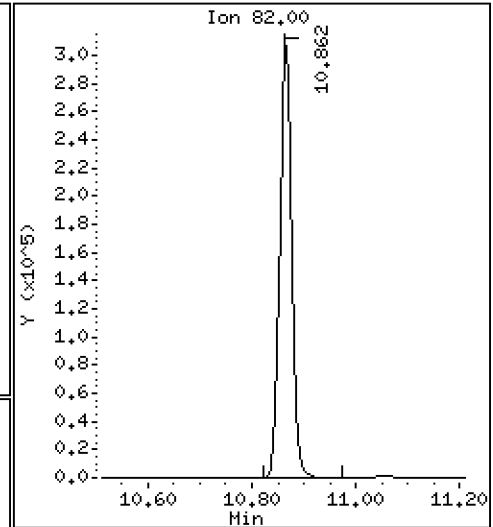
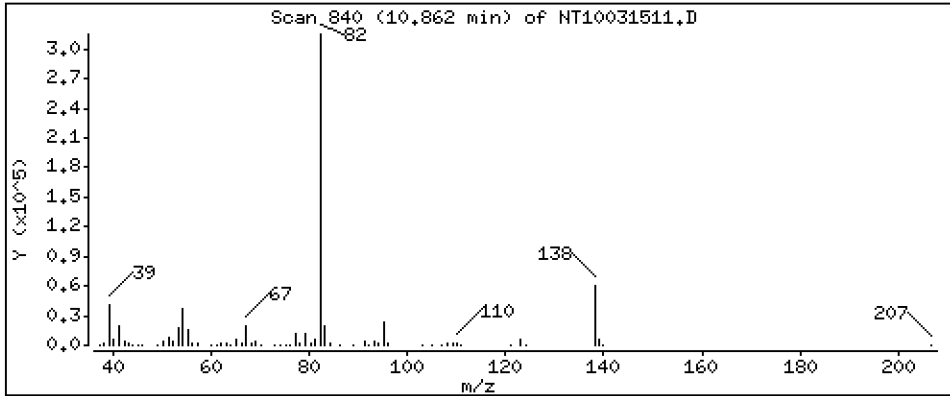
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

20 Isophorone

Concentration: 7,696 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

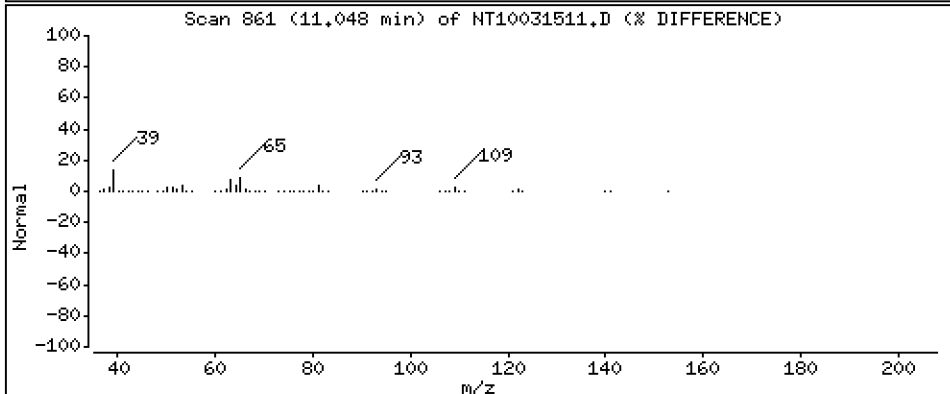
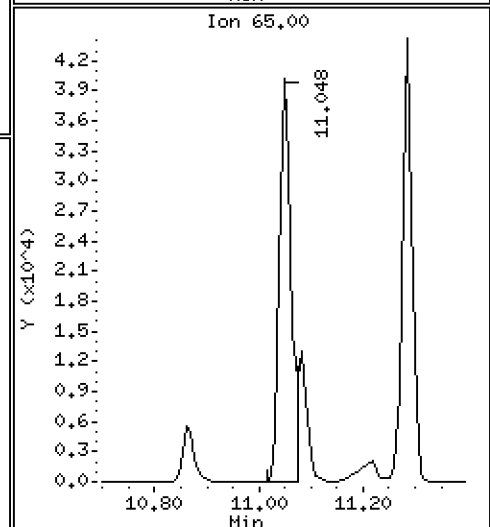
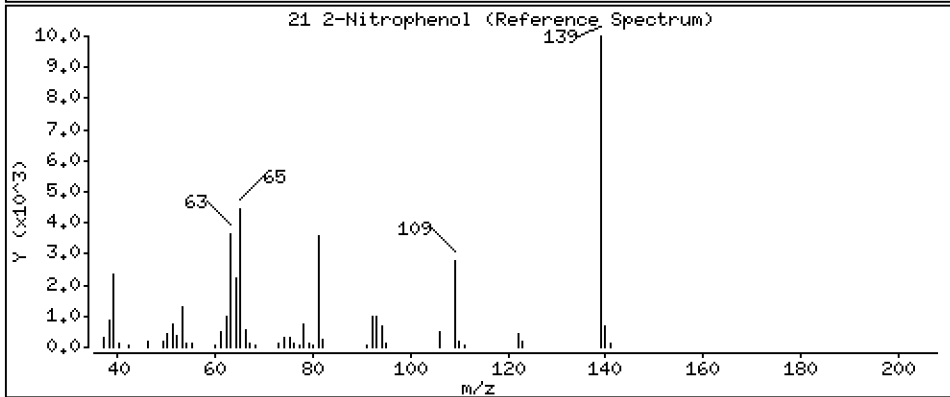
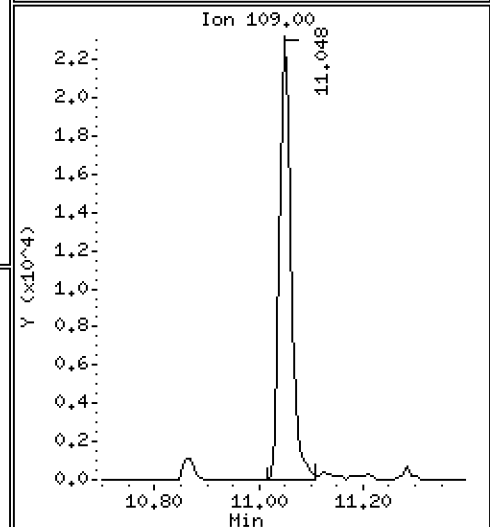
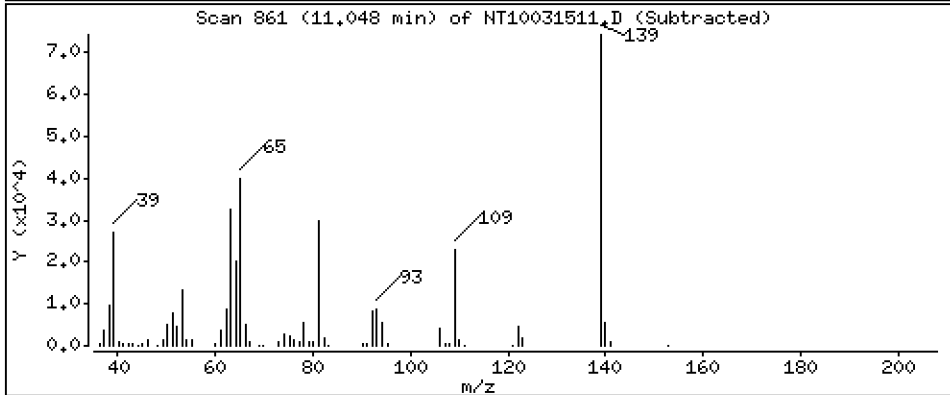
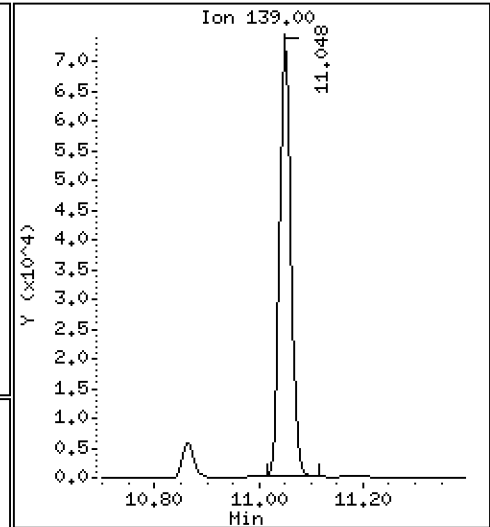
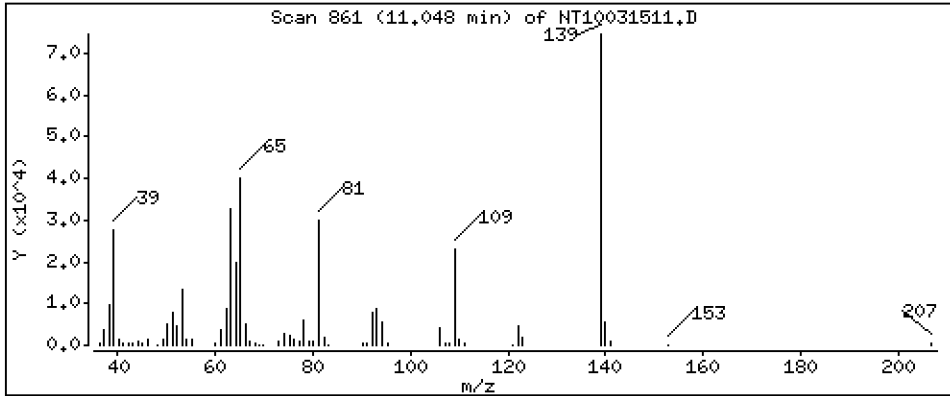
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

21 2-Nitrophenol

Concentration: 3,995 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

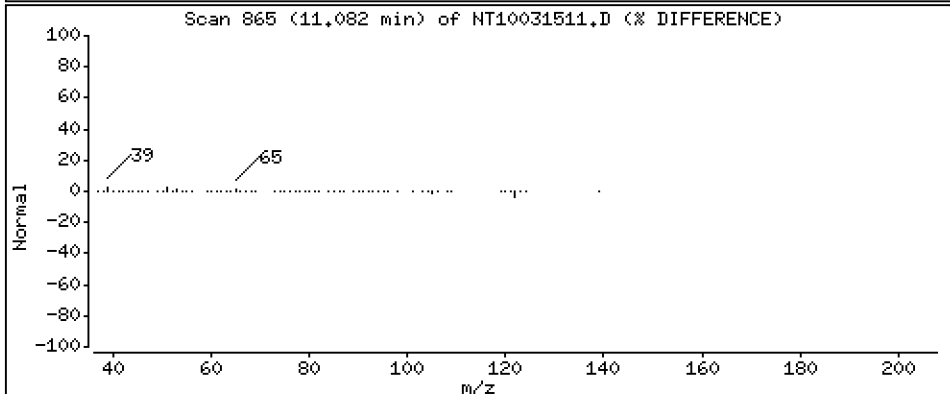
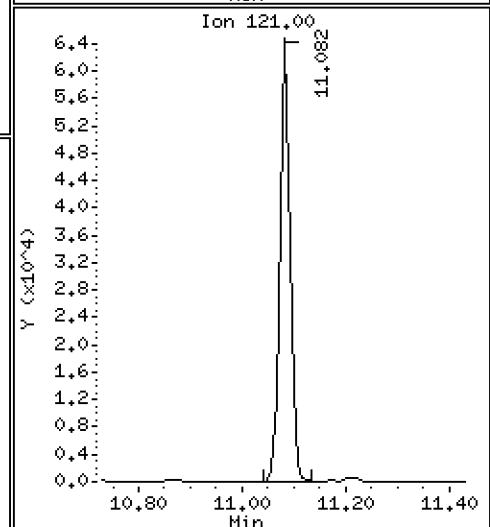
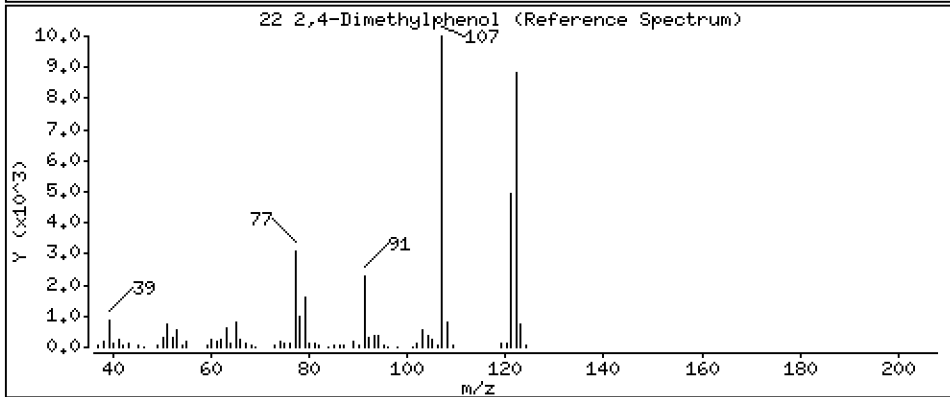
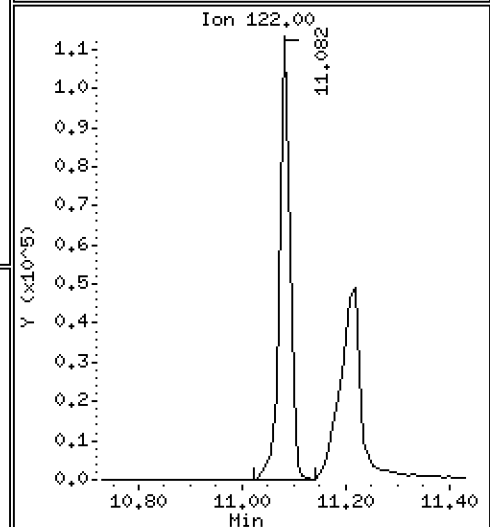
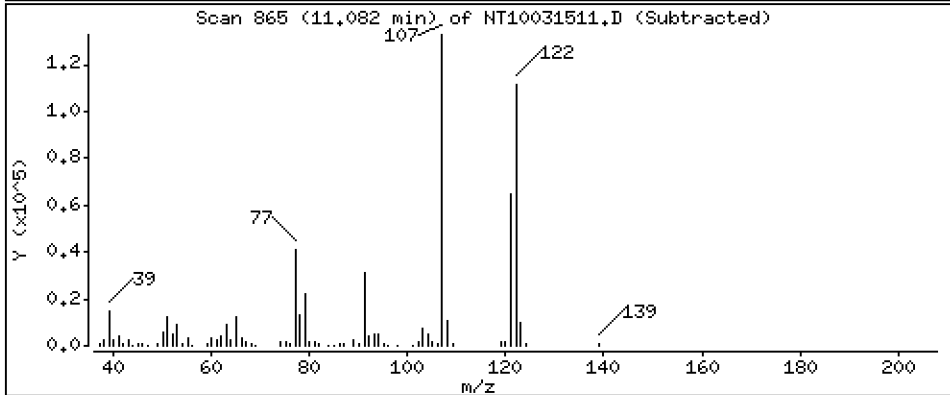
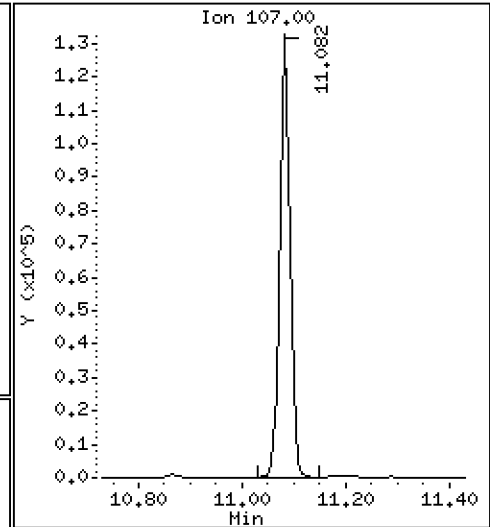
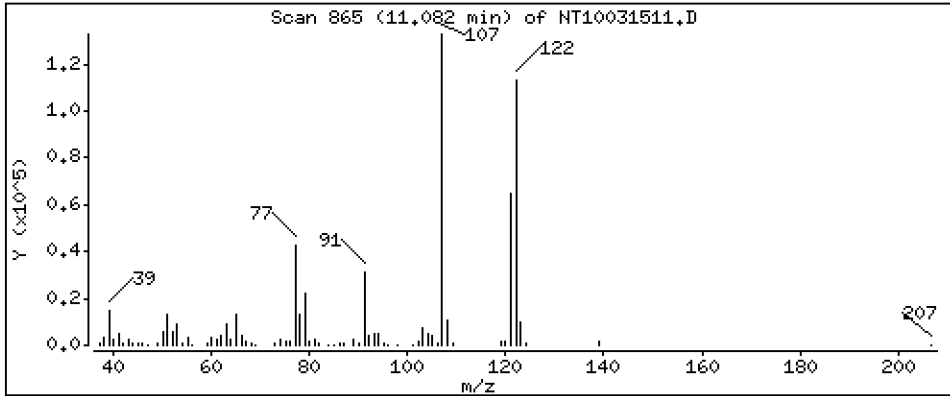
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 3,632 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

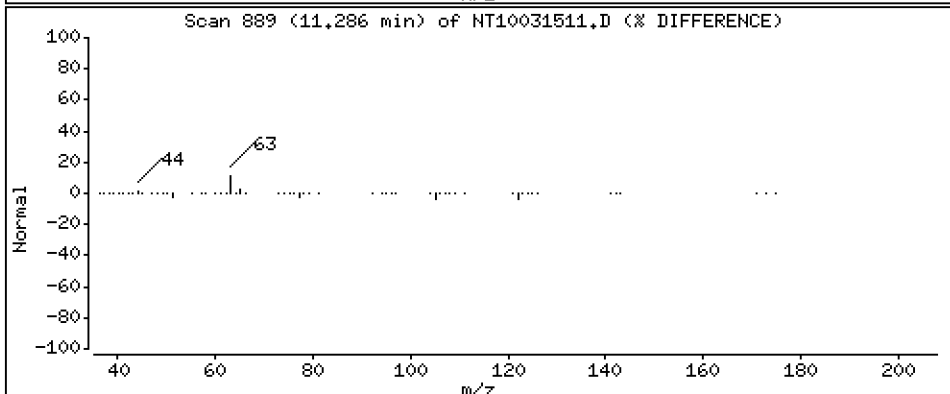
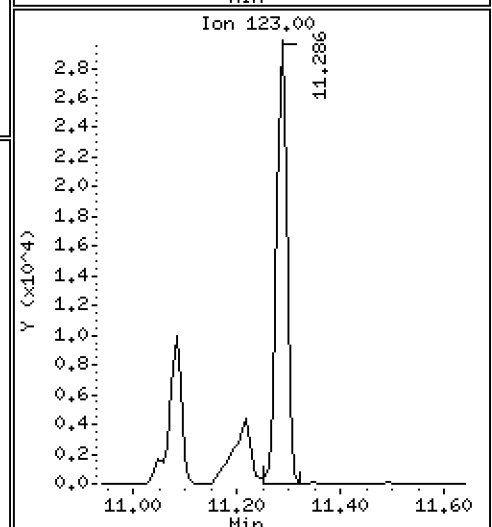
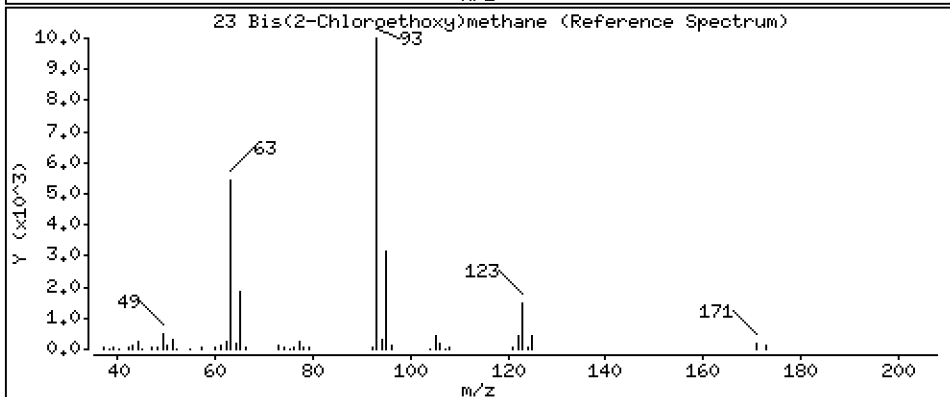
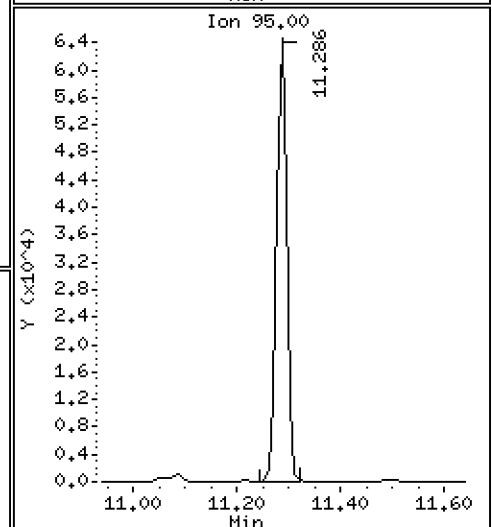
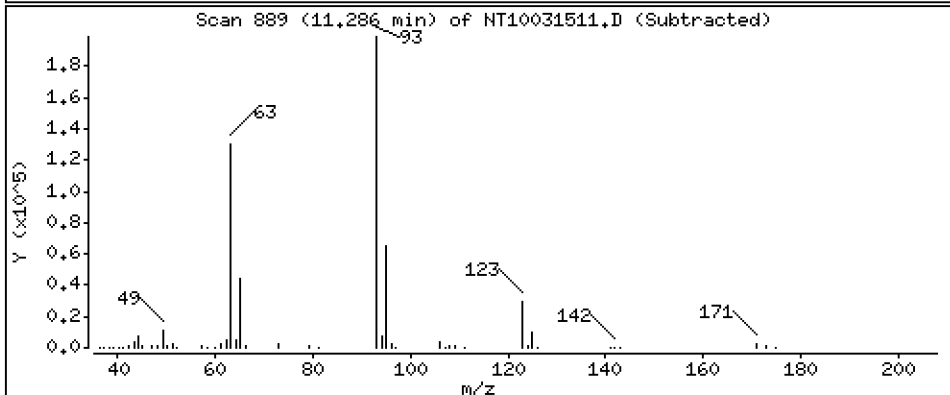
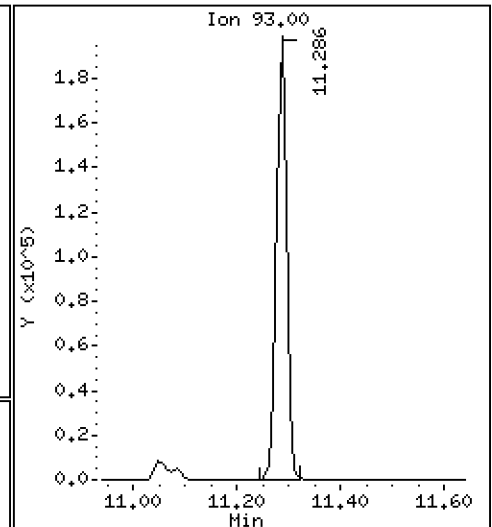
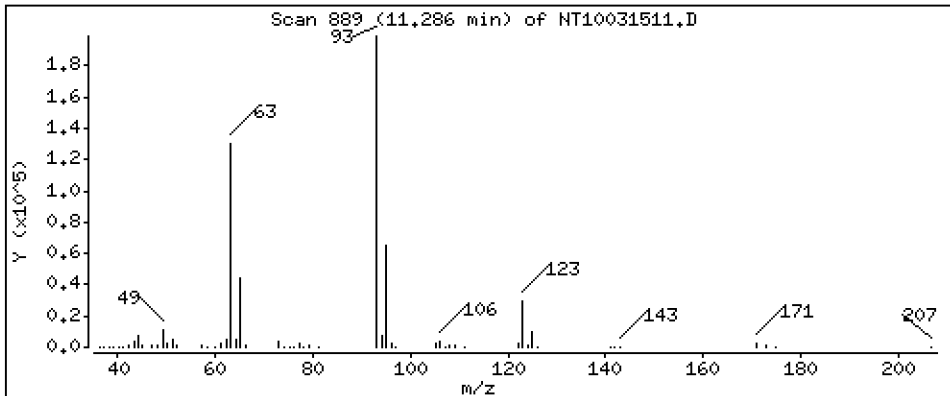
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

23 Bis(2-Chloroethoxy)methane

Concentration: 5,654 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

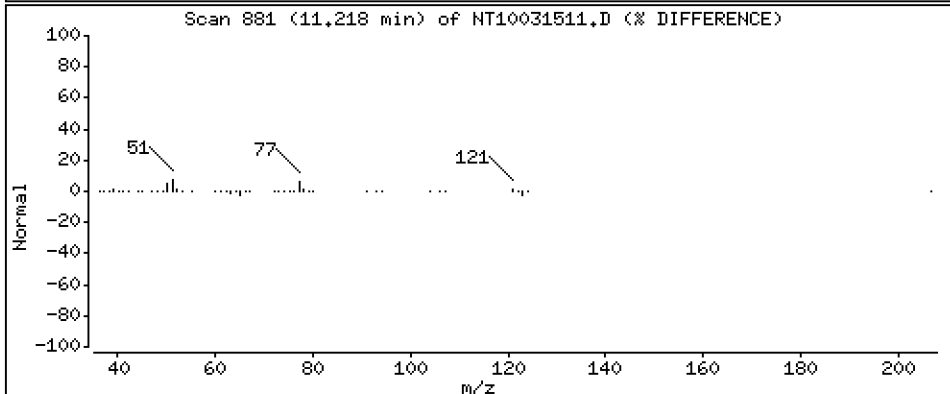
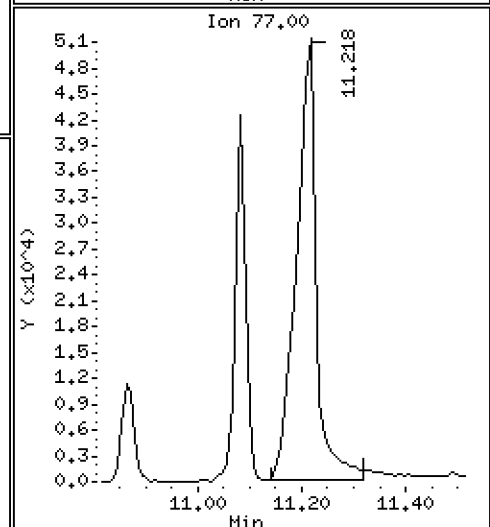
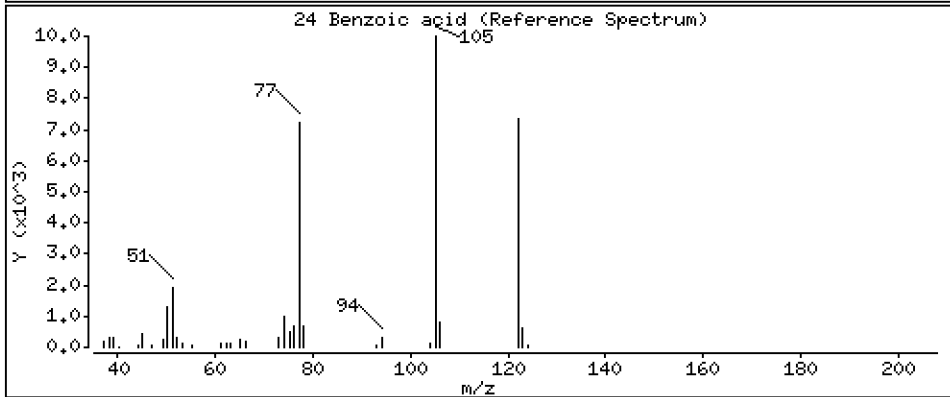
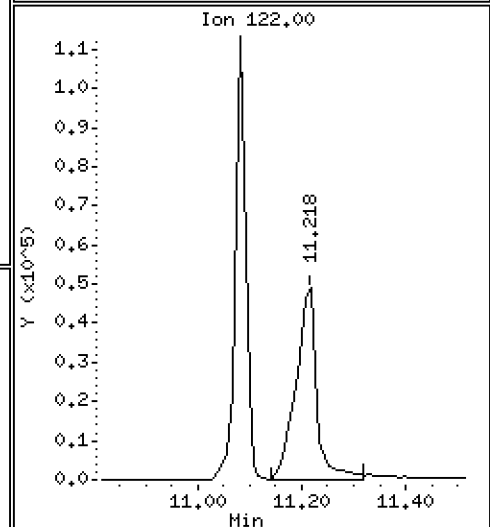
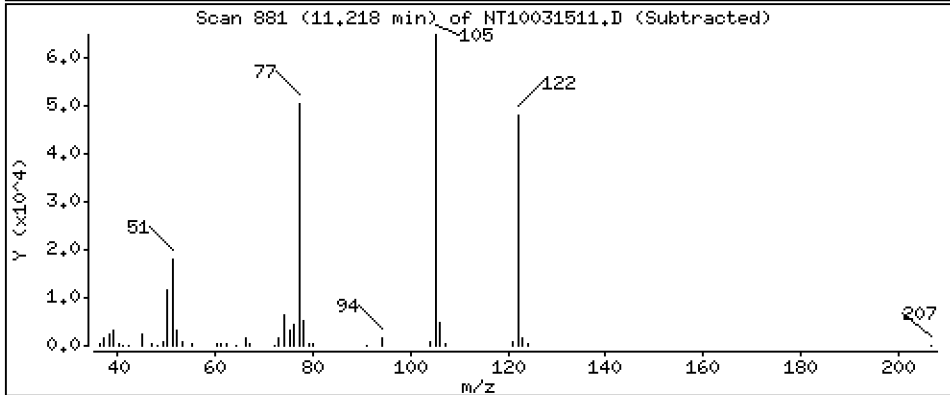
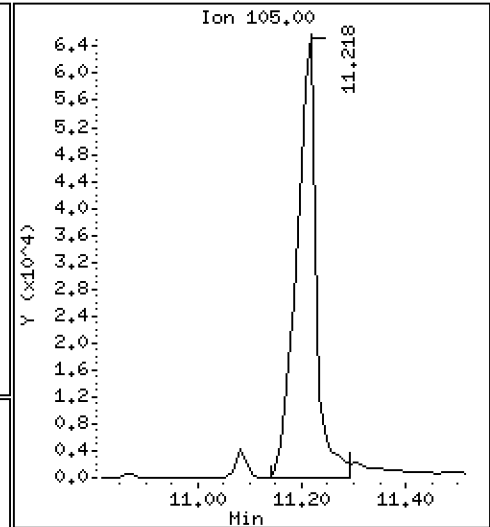
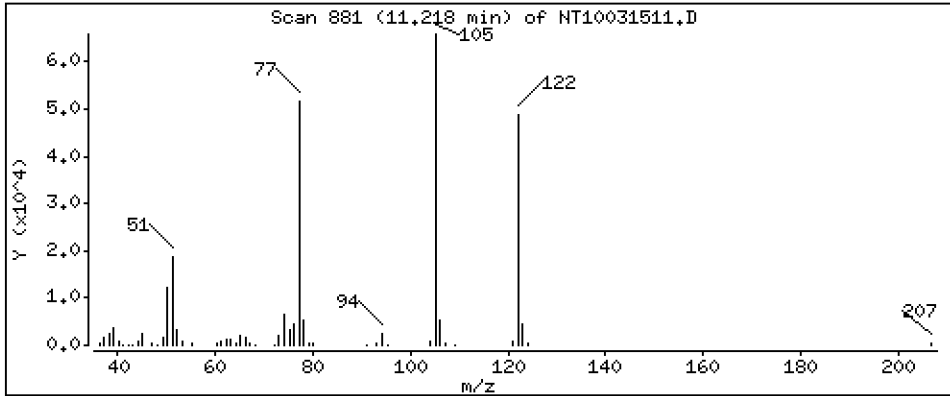
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

24 Benzoic acid

Concentration: 5,952 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

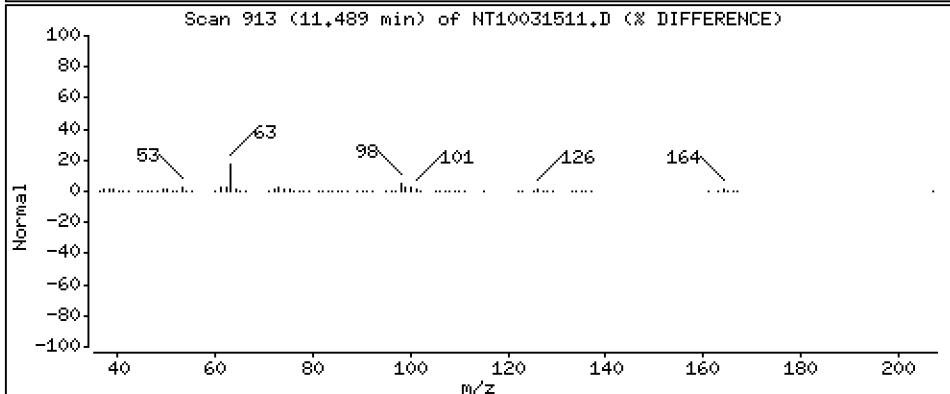
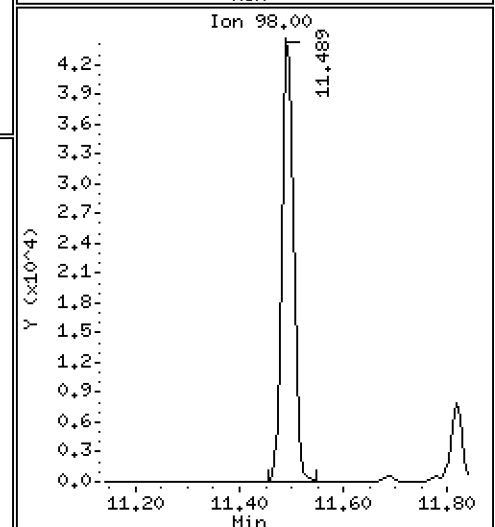
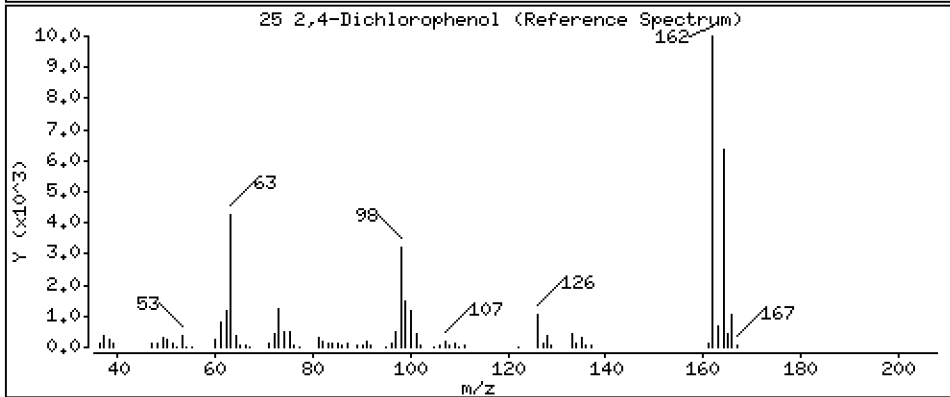
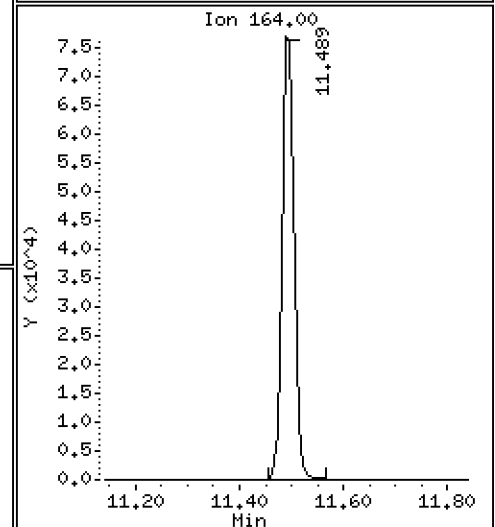
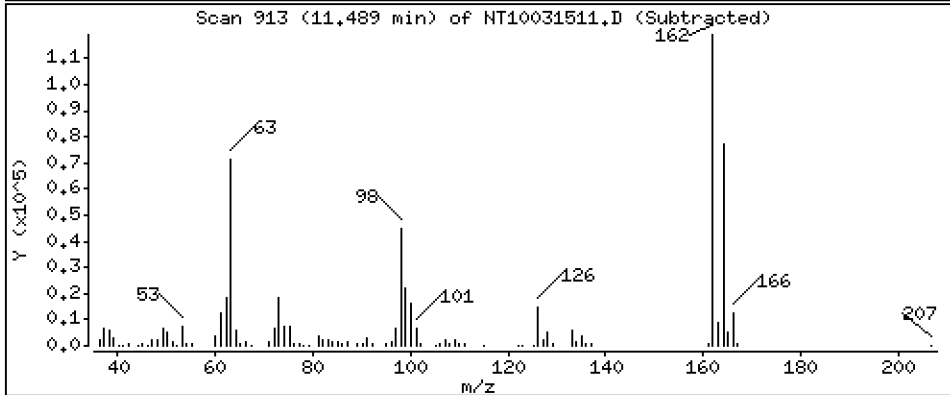
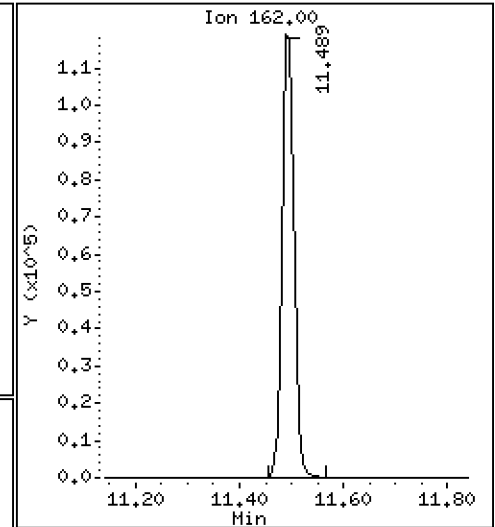
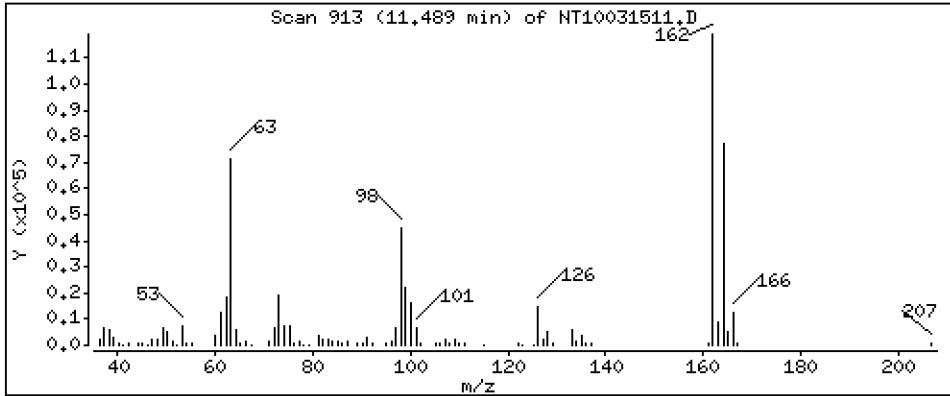
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 4,703 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

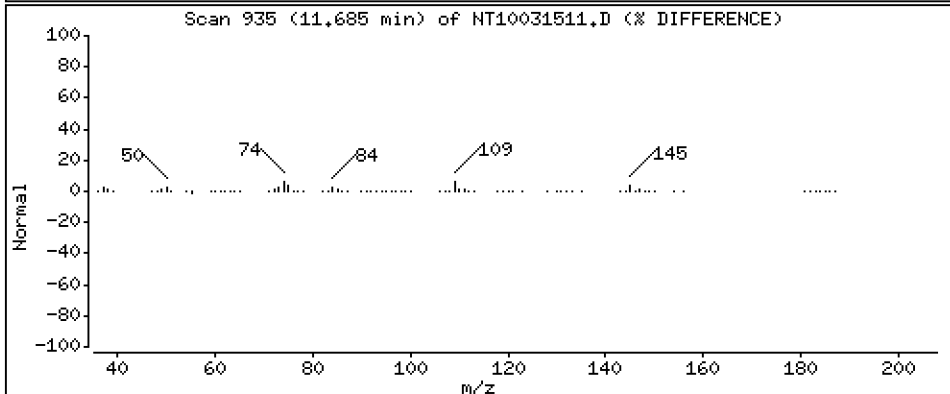
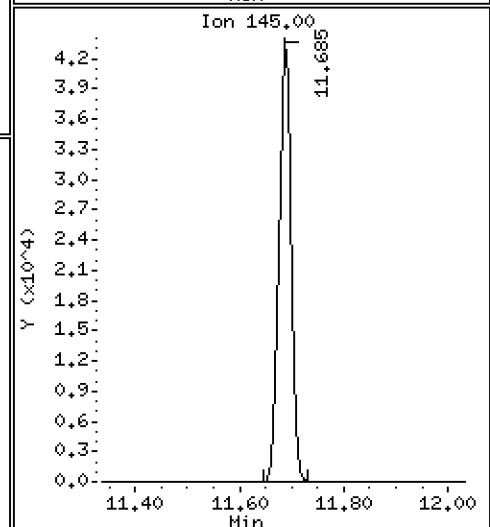
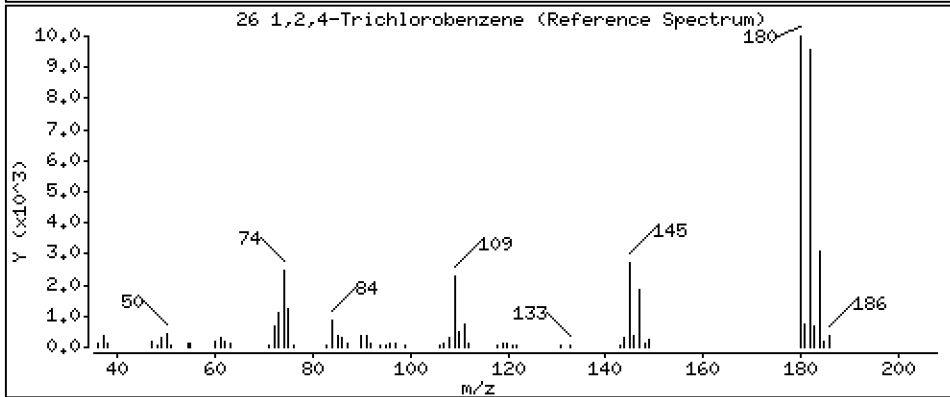
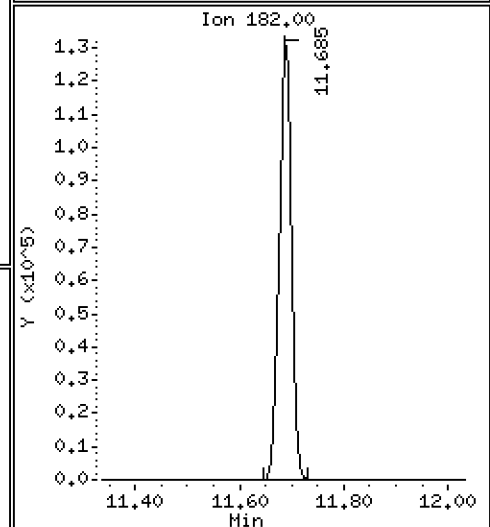
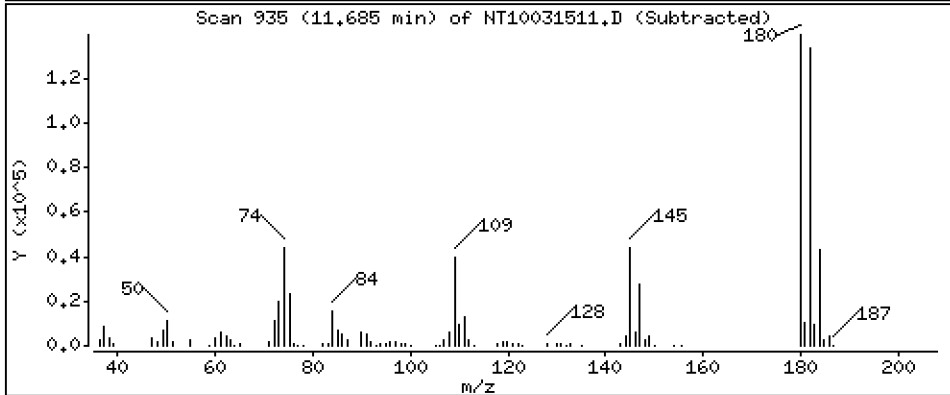
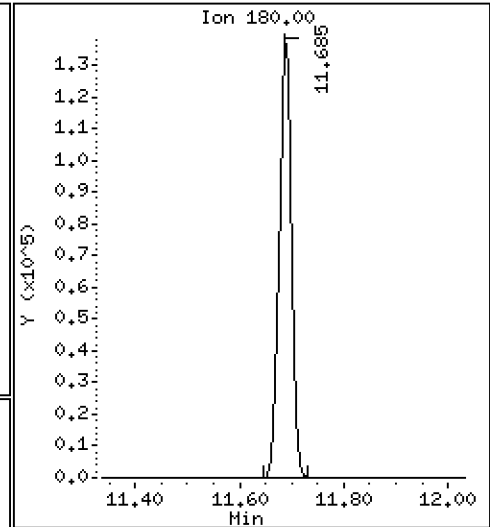
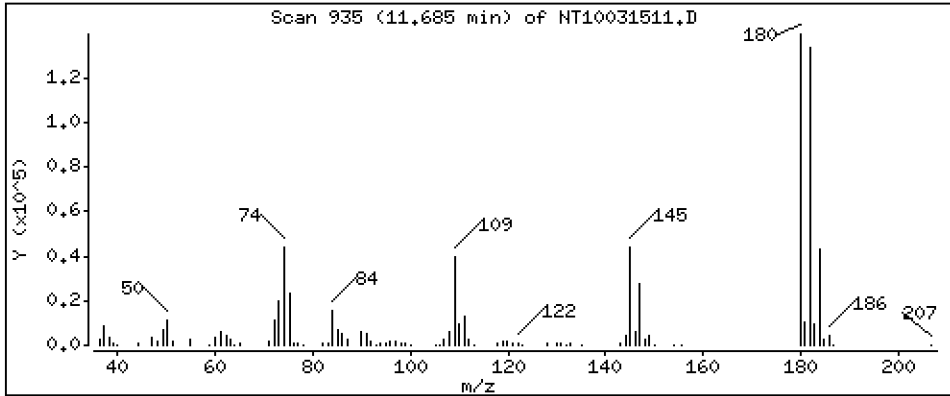
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 4,554 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

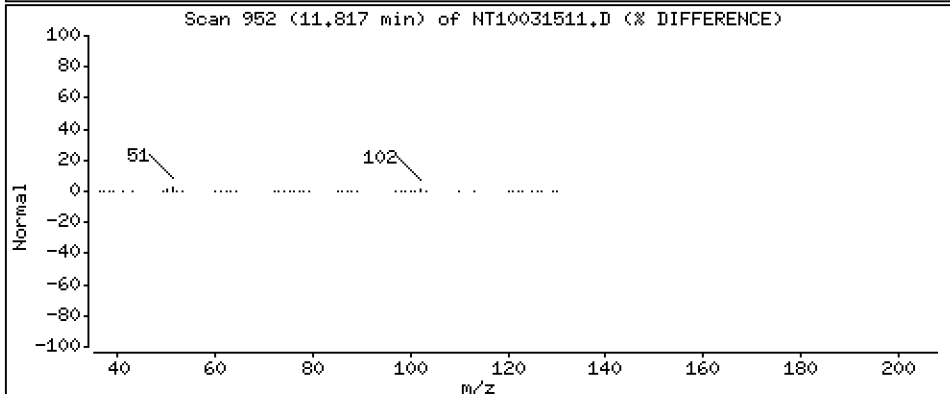
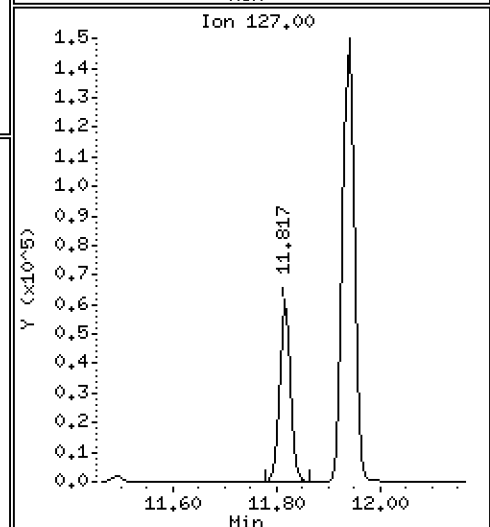
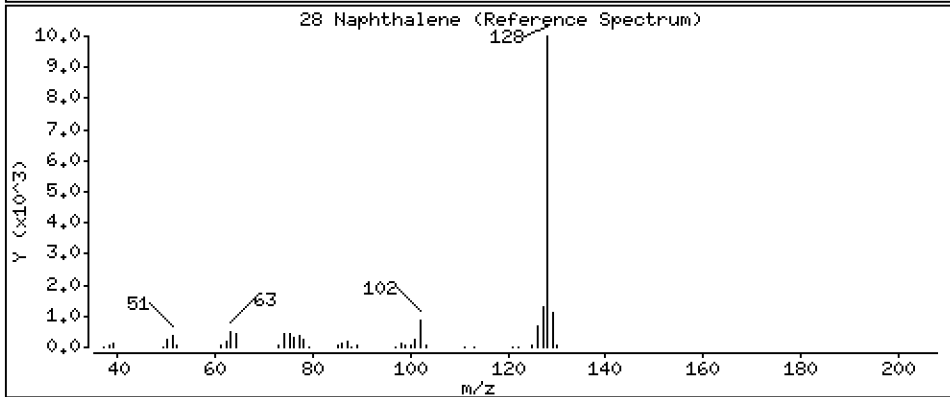
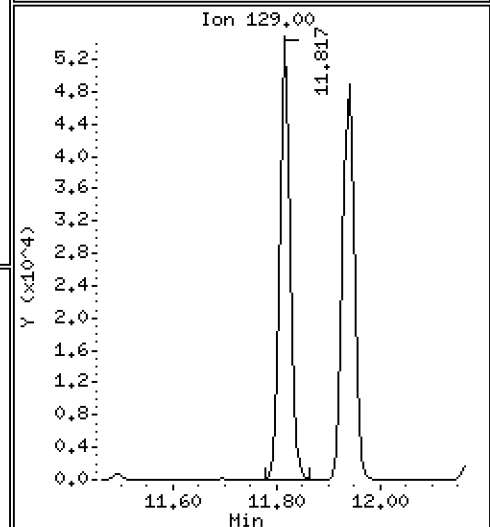
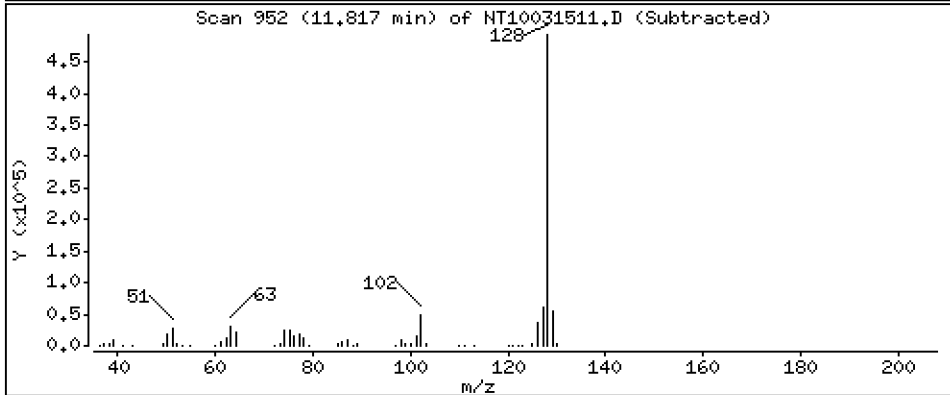
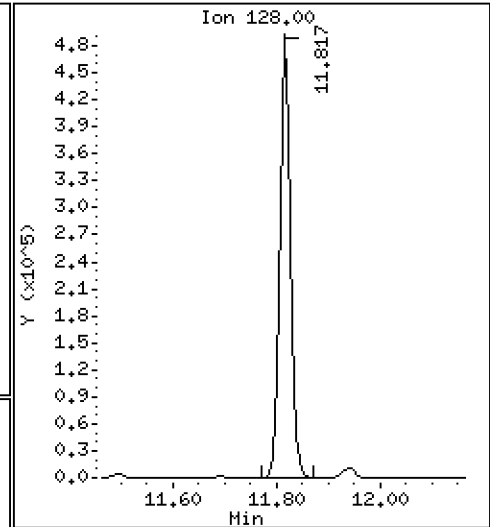
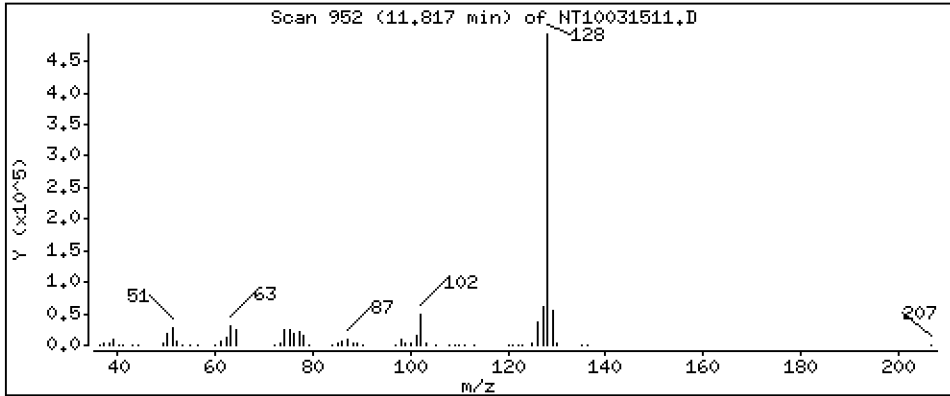
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 4,717 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

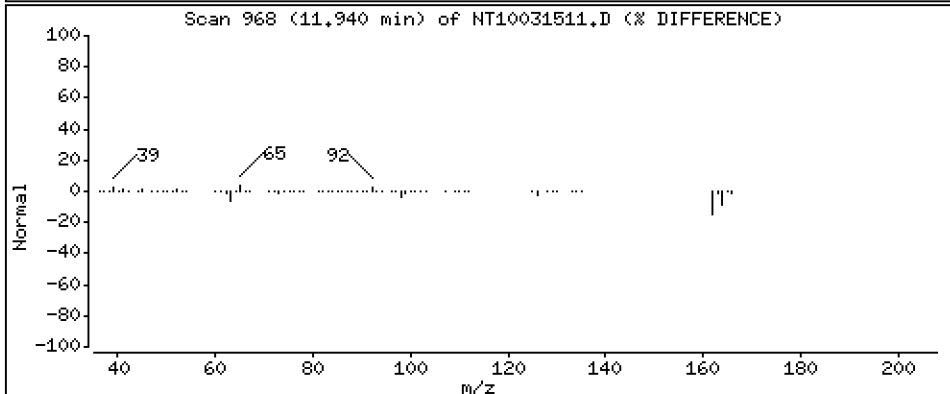
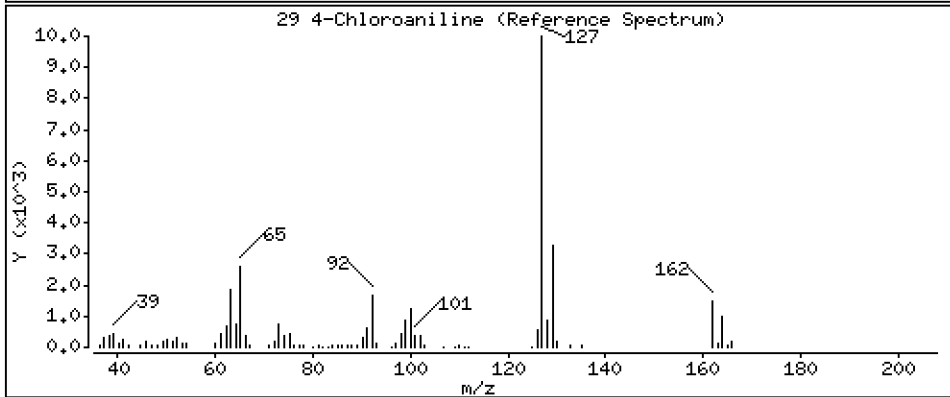
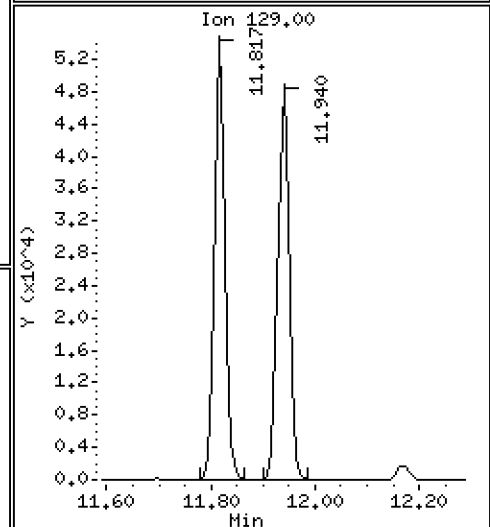
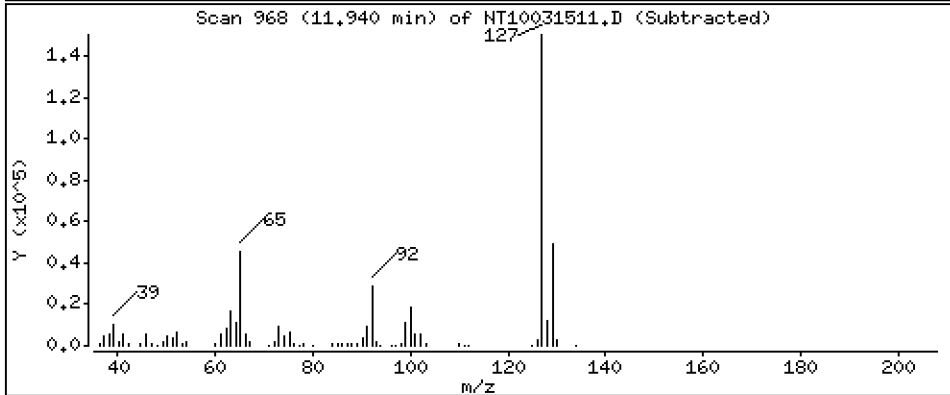
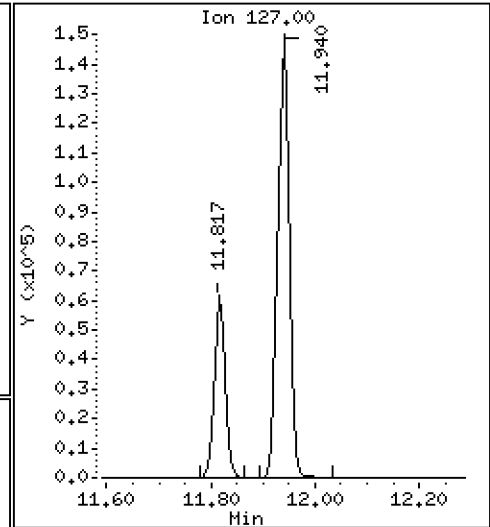
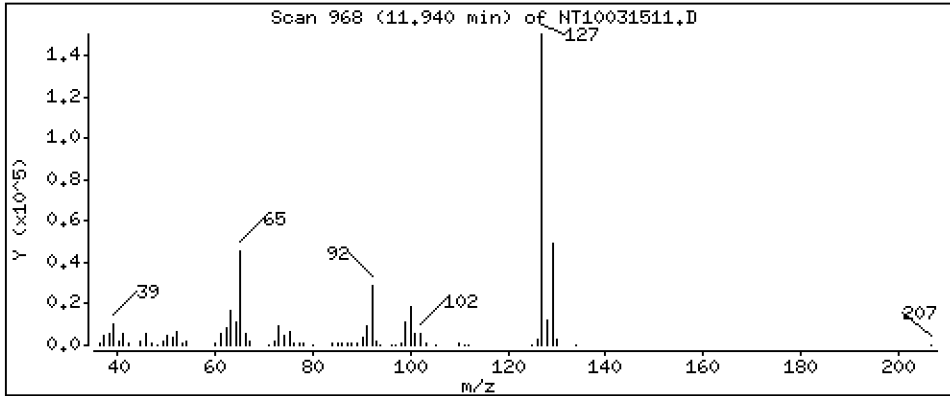
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

29 4-Chloroaniline

Concentration: 3,787 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

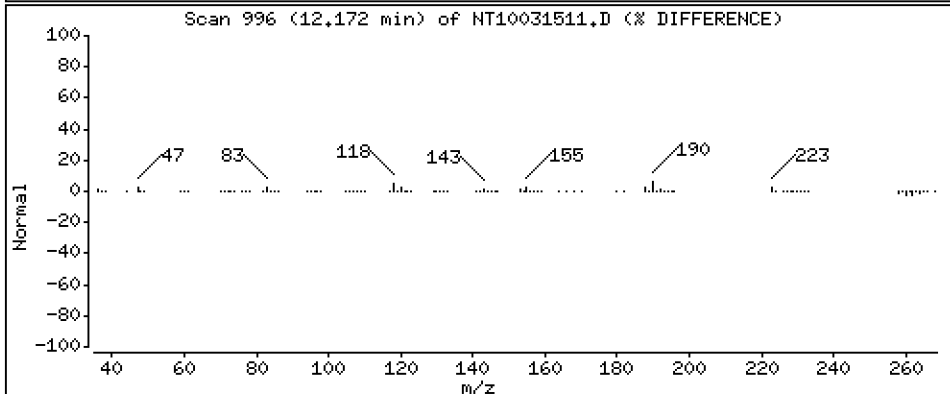
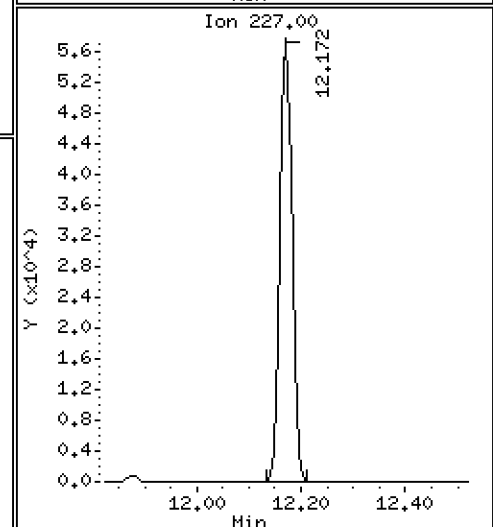
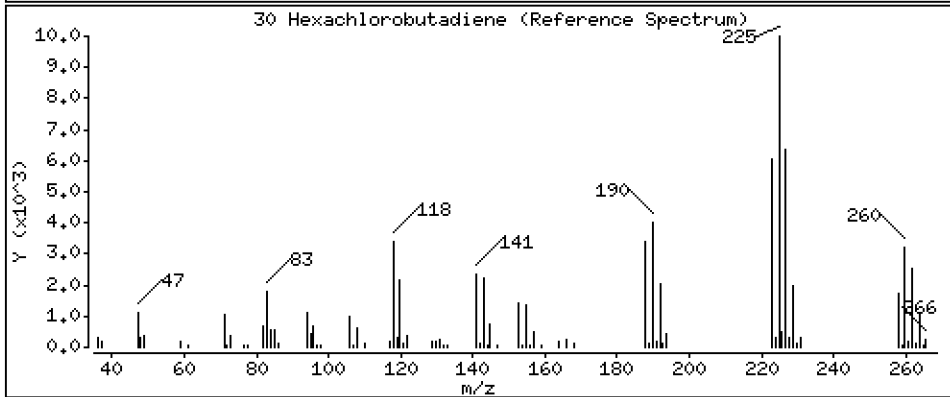
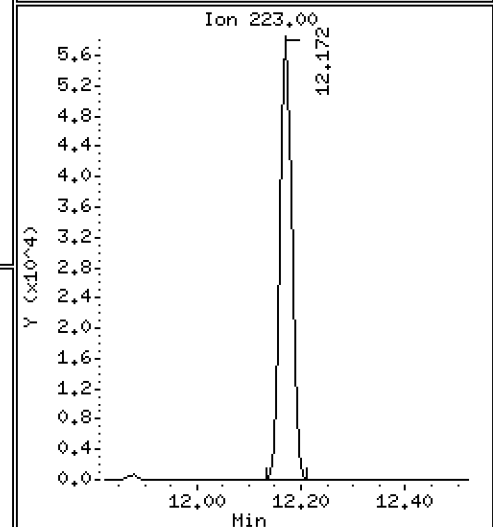
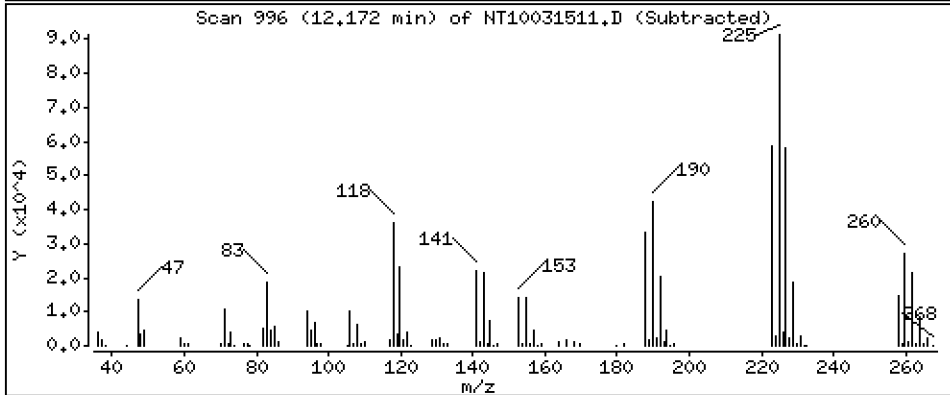
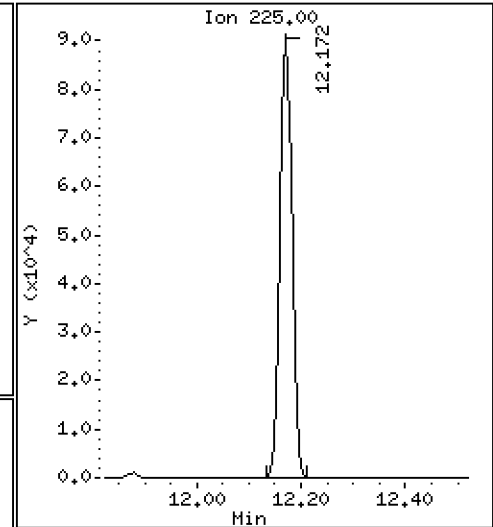
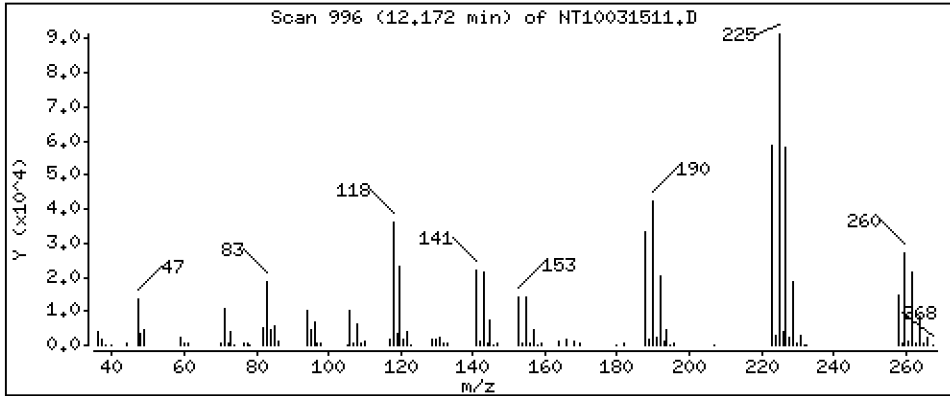
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 4,834 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

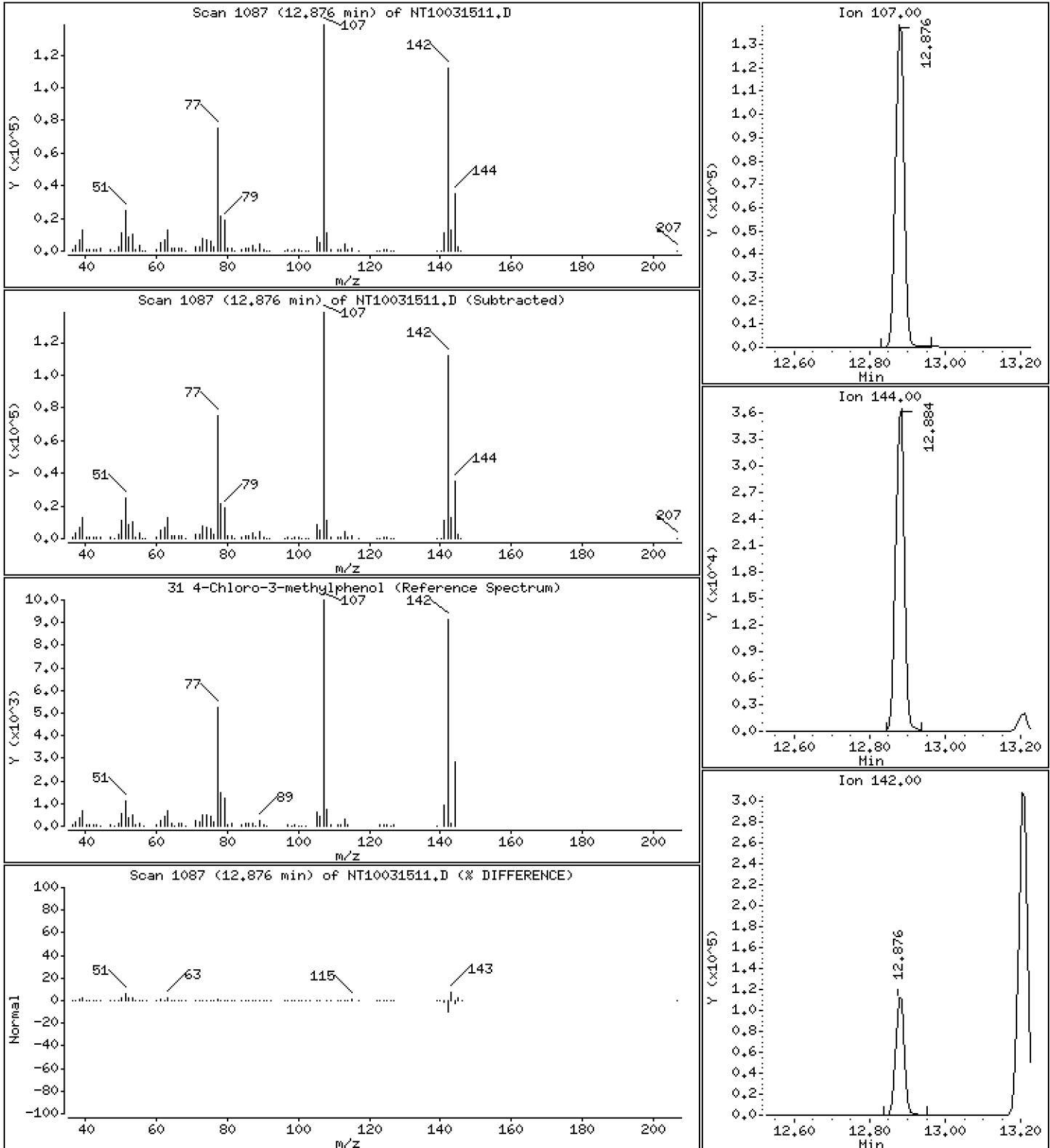
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

31 4-Chloro-3-methylphenol

Concentration: 4,640 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

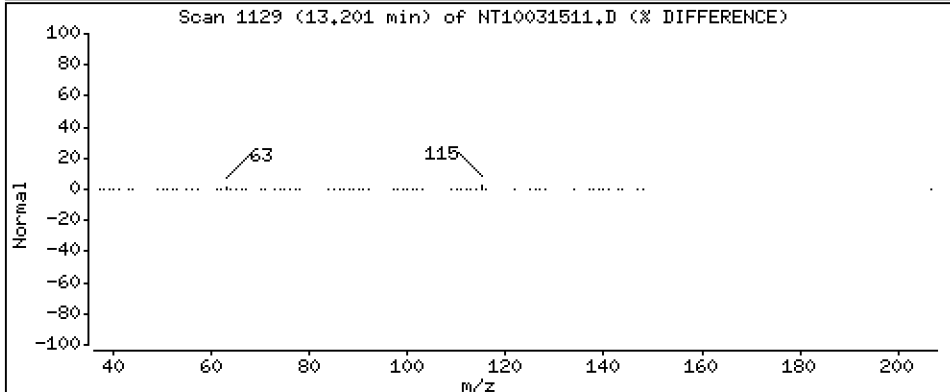
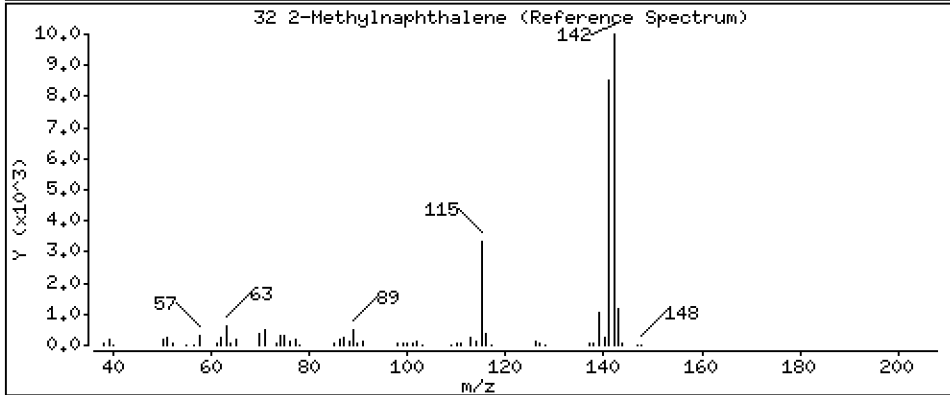
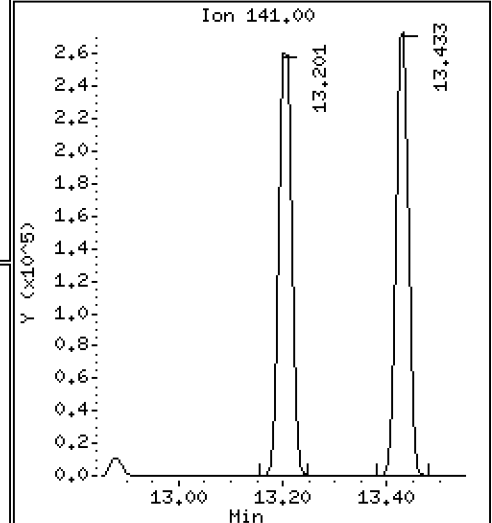
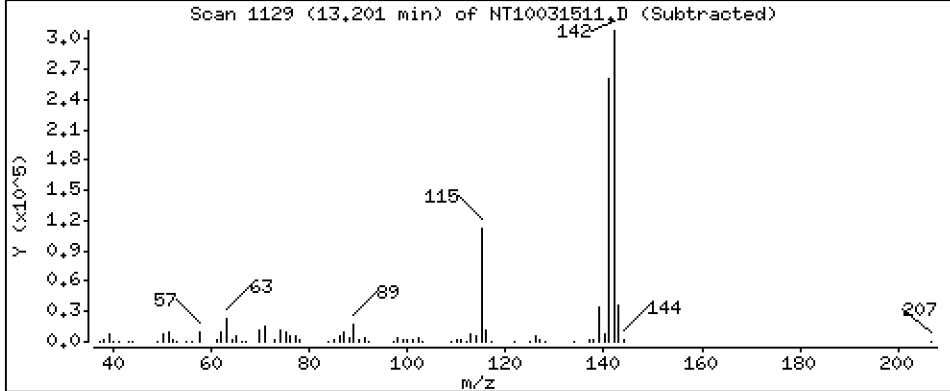
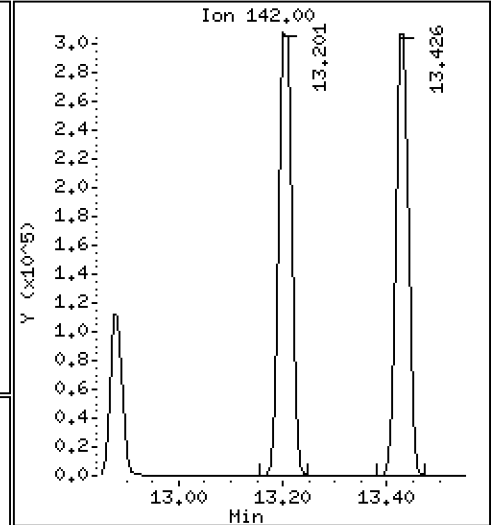
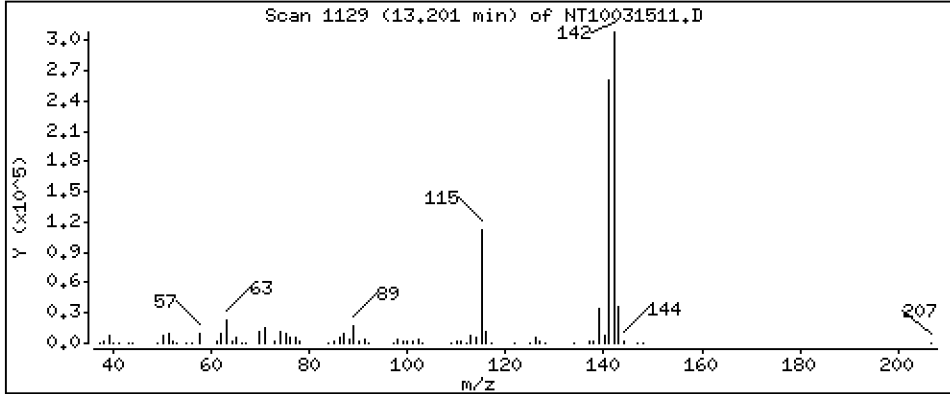
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 4,596 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

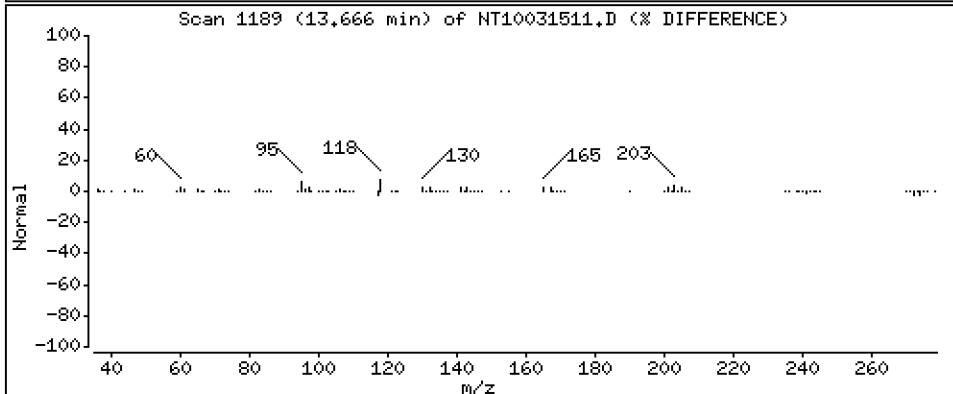
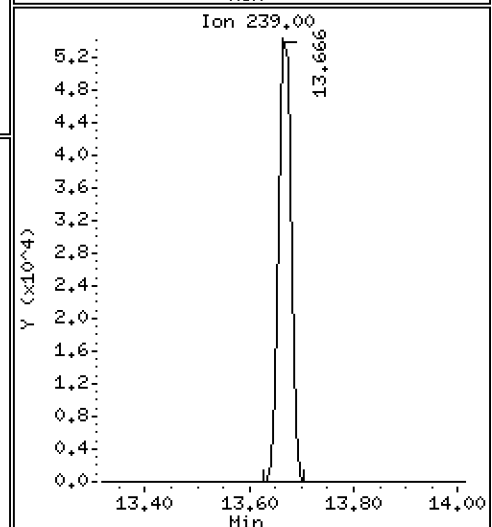
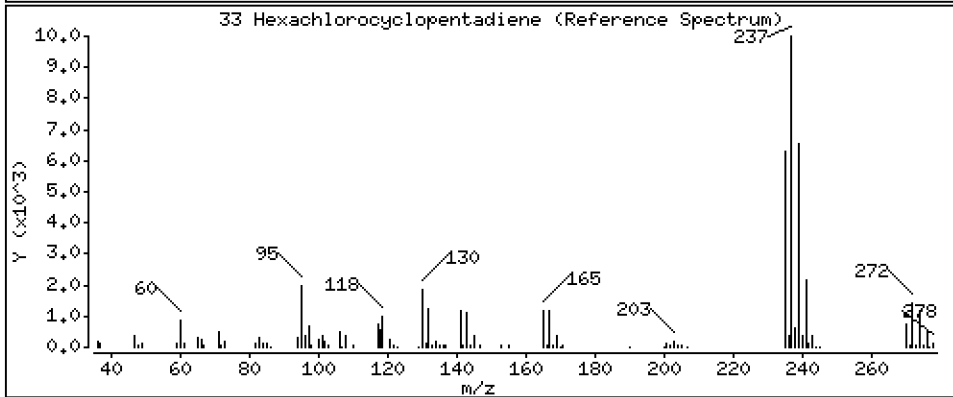
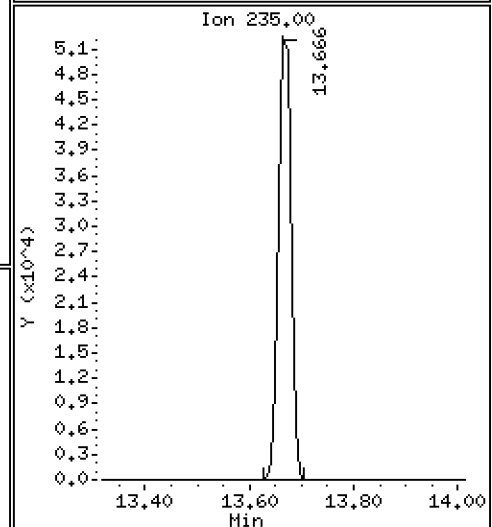
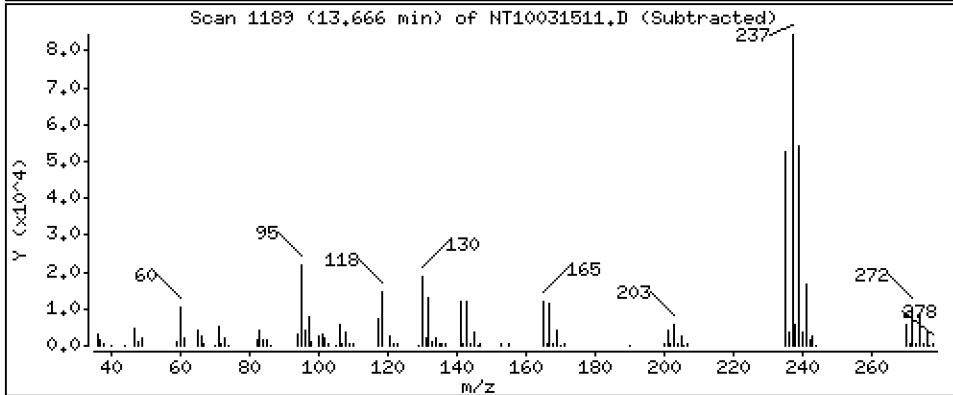
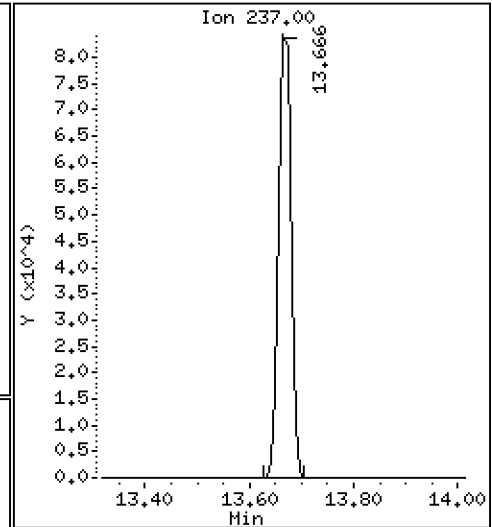
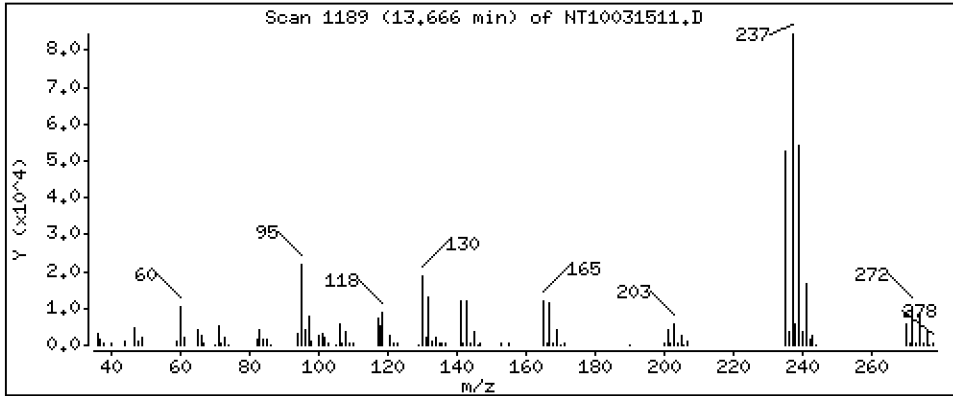
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

33 Hexachlorocyclopentadiene

Concentration: 4.729 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

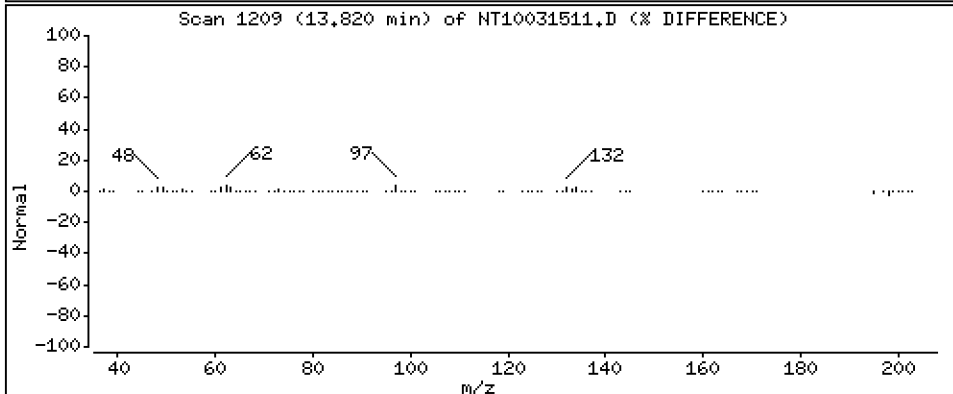
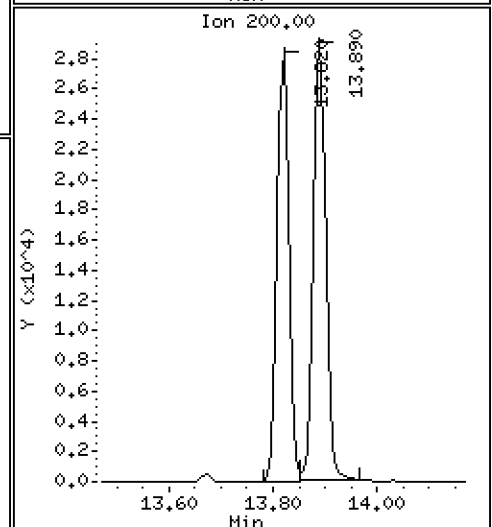
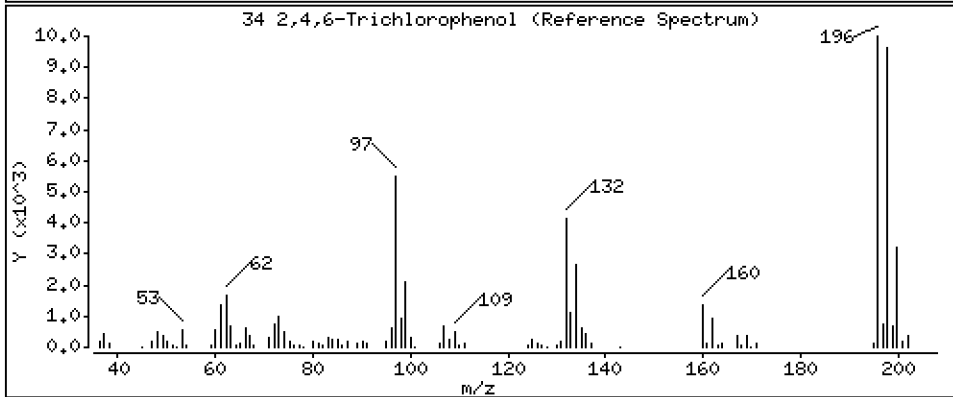
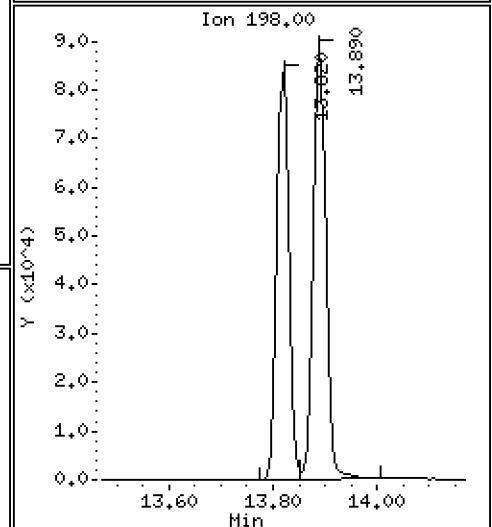
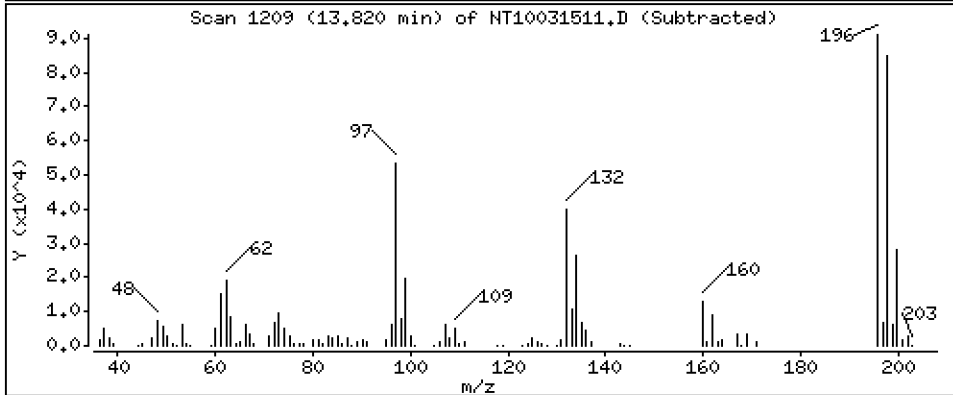
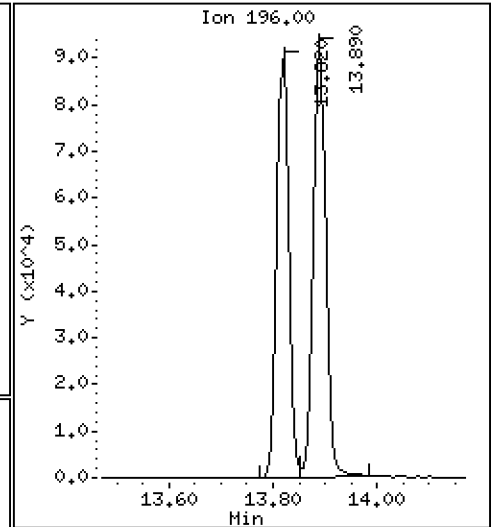
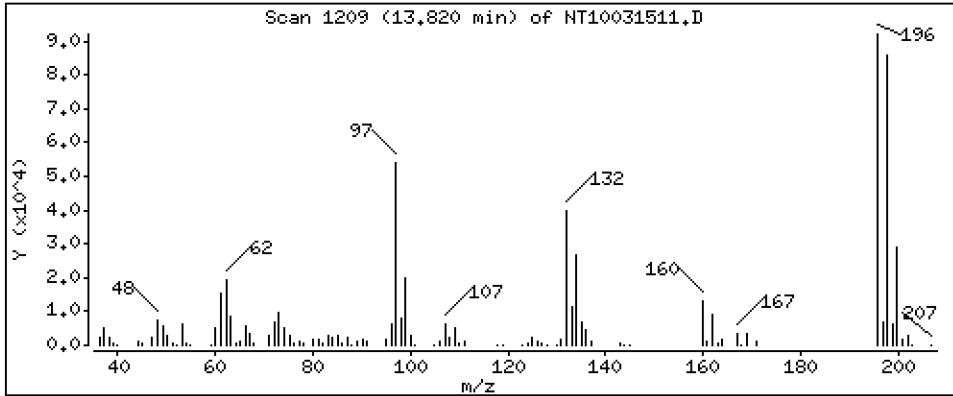
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

34 2,4,6-Trichlorophenol

Concentration: 4,596 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

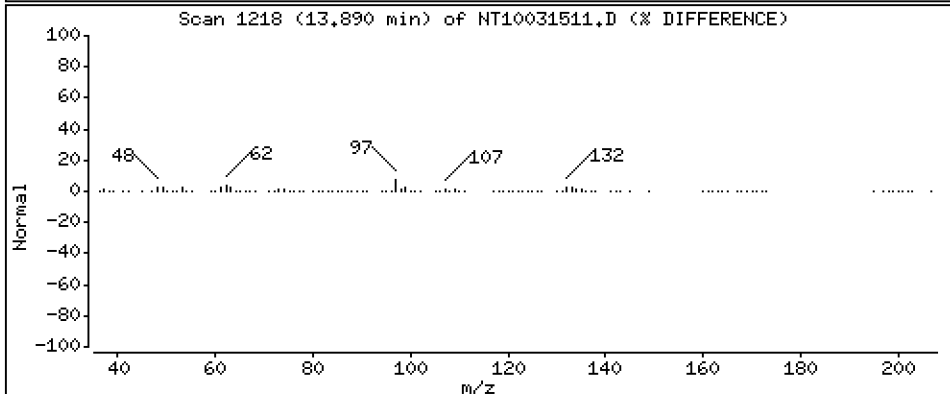
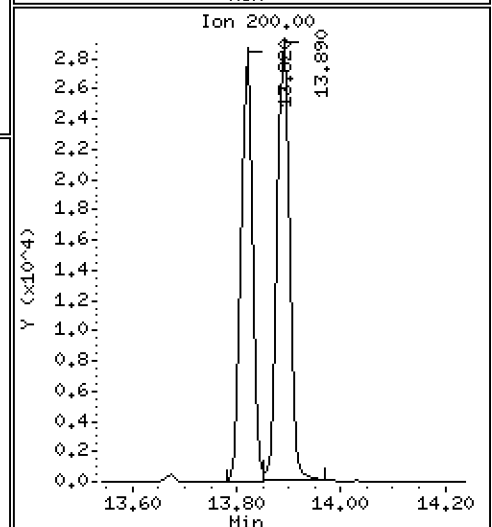
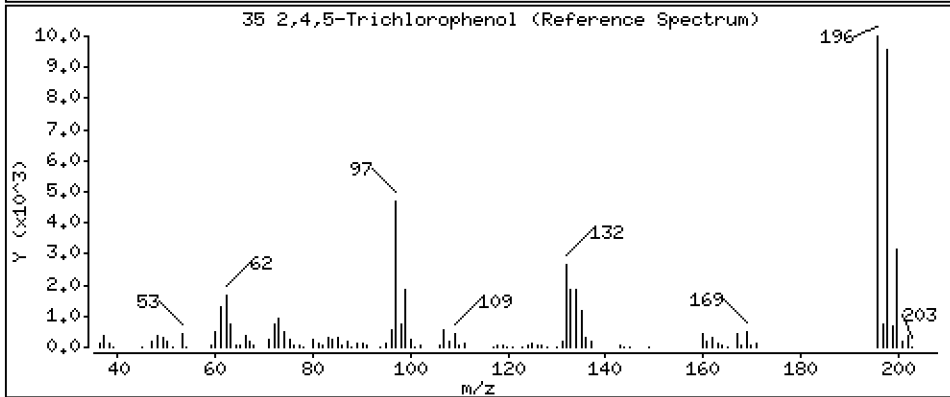
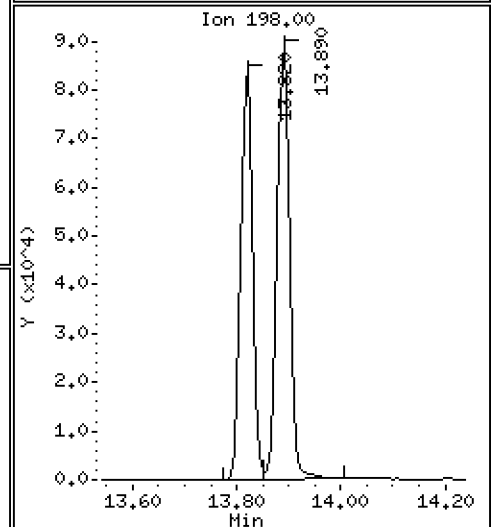
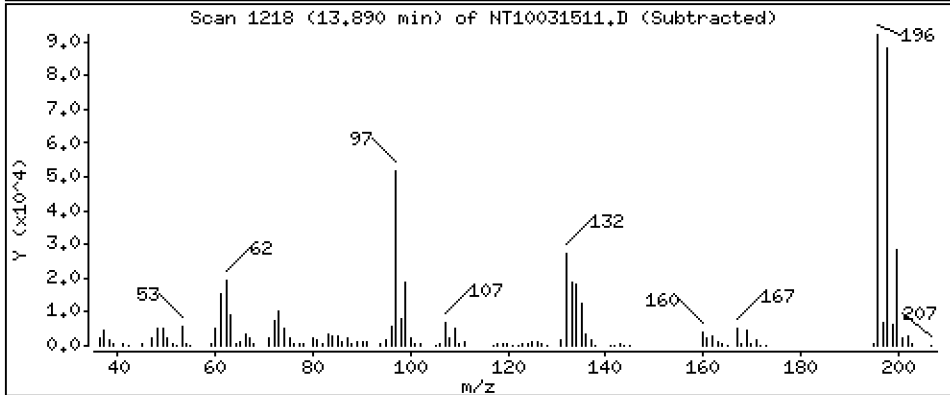
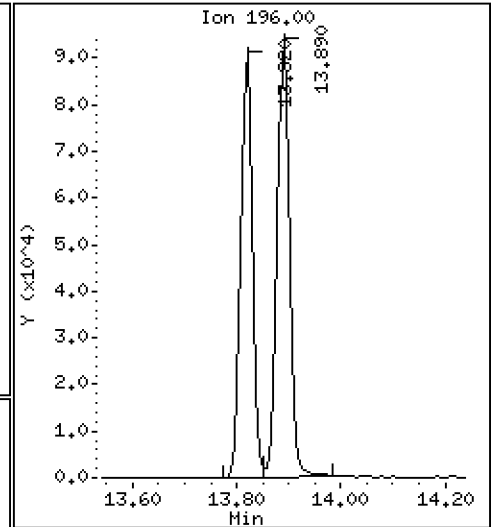
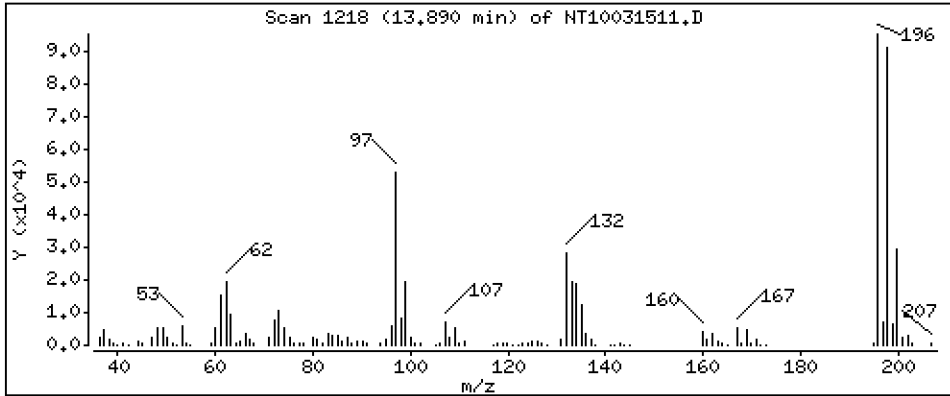
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

35 2,4,5-Trichlorophenol

Concentration: 4,409 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

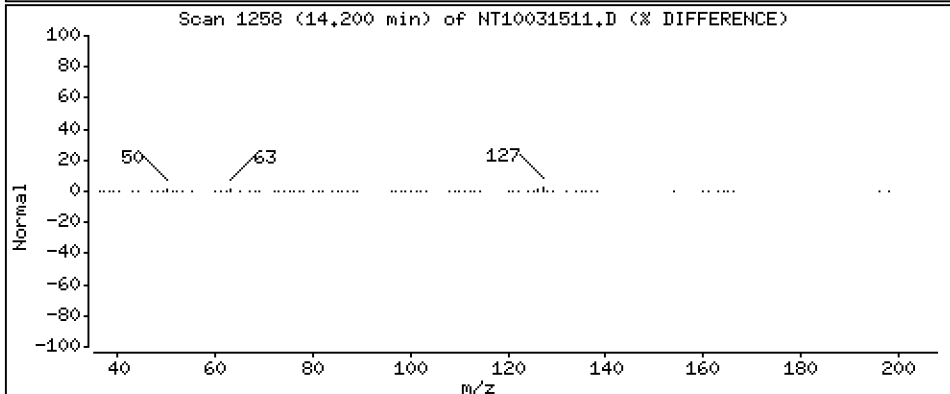
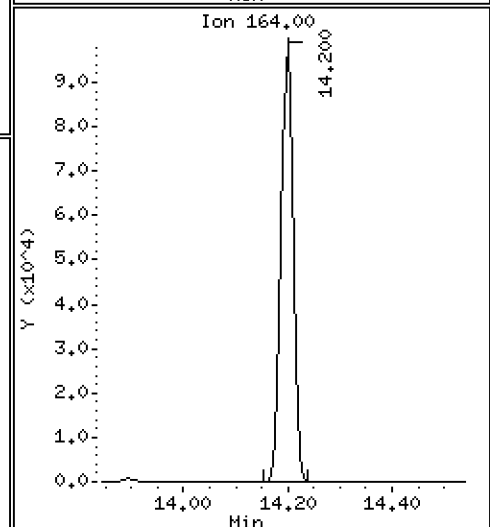
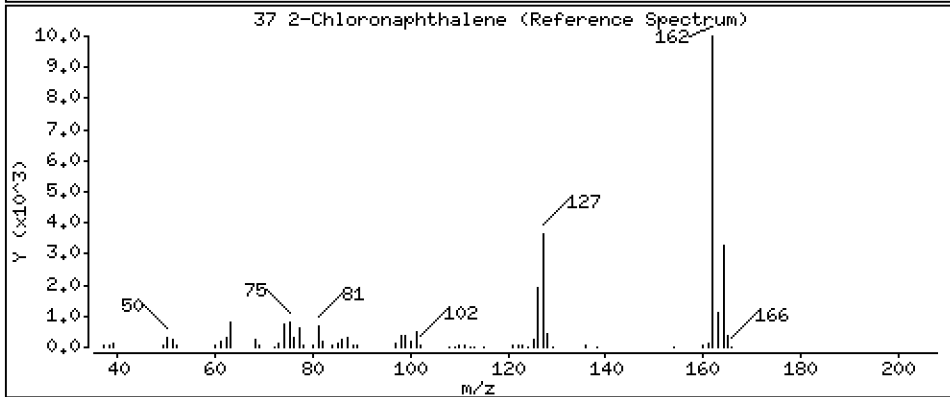
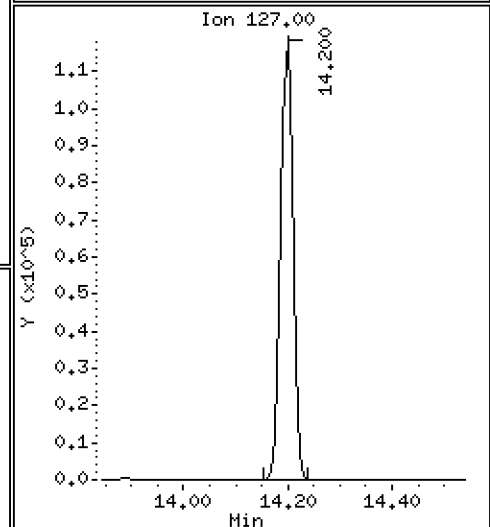
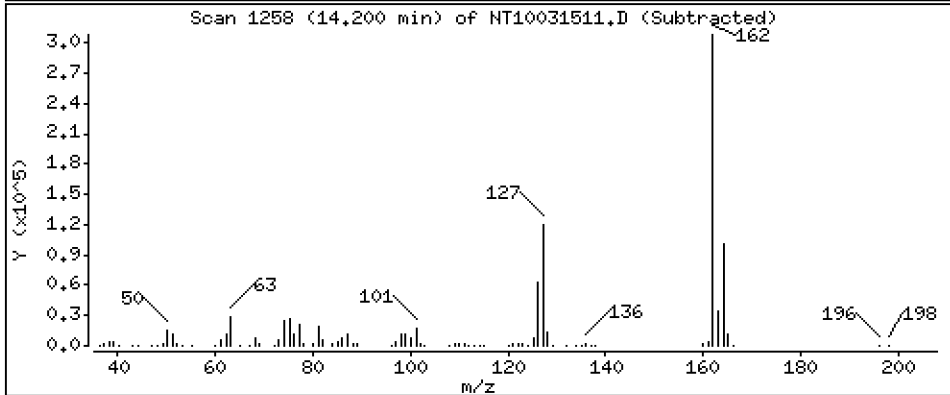
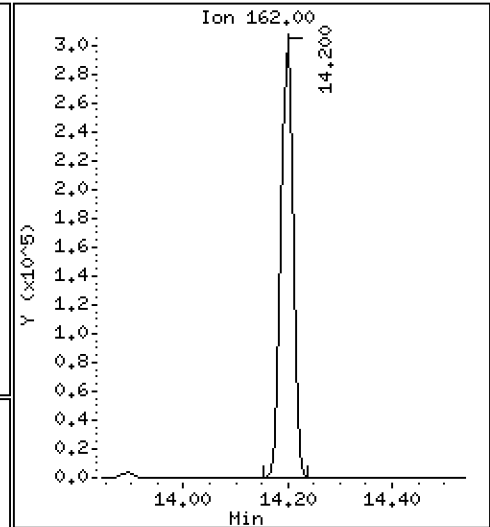
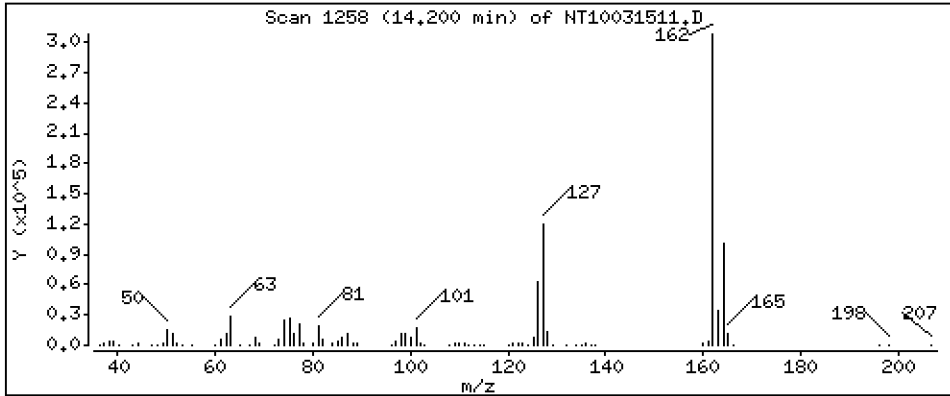
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

37 2-Chloronaphthalene

Concentration: 4,796 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

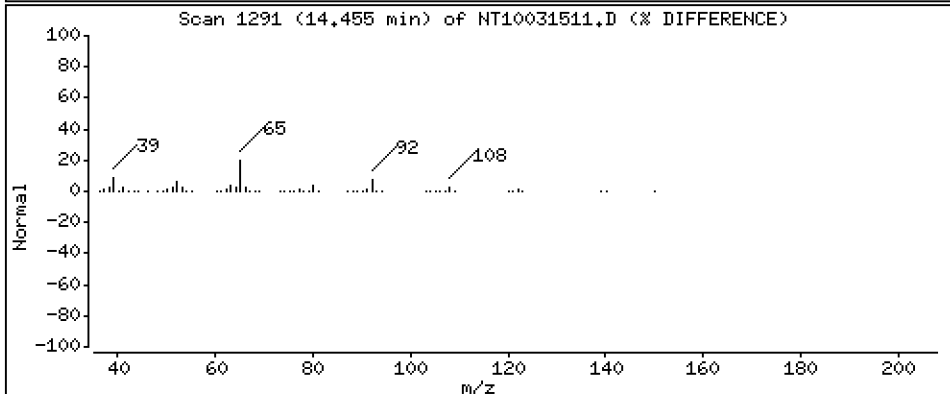
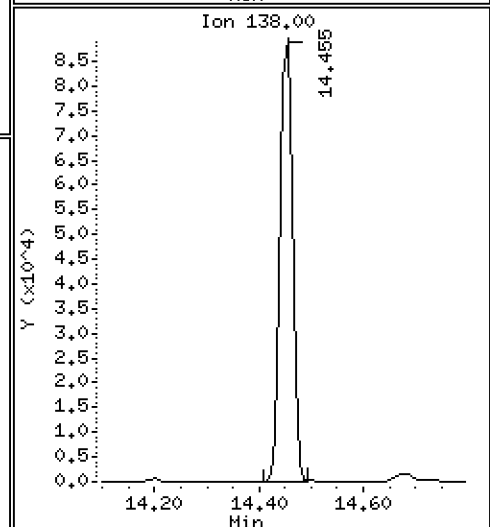
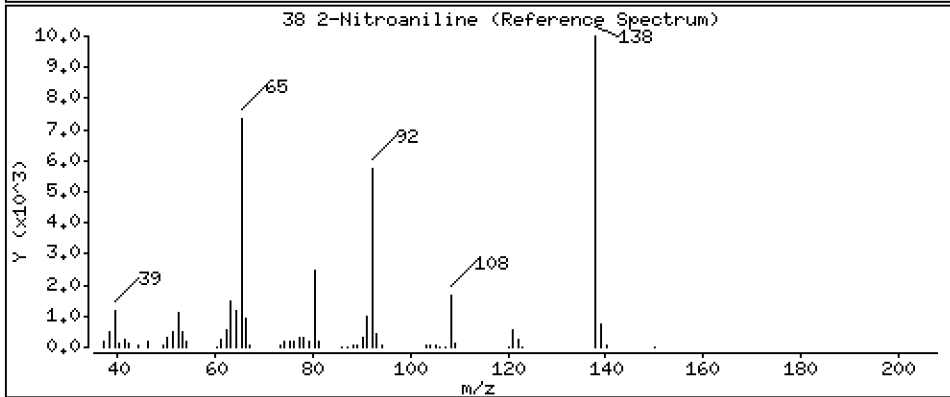
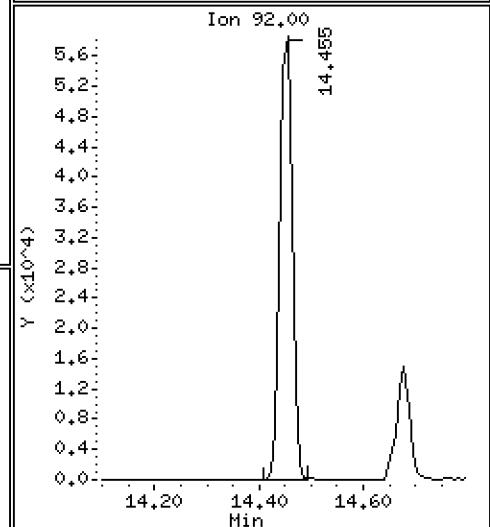
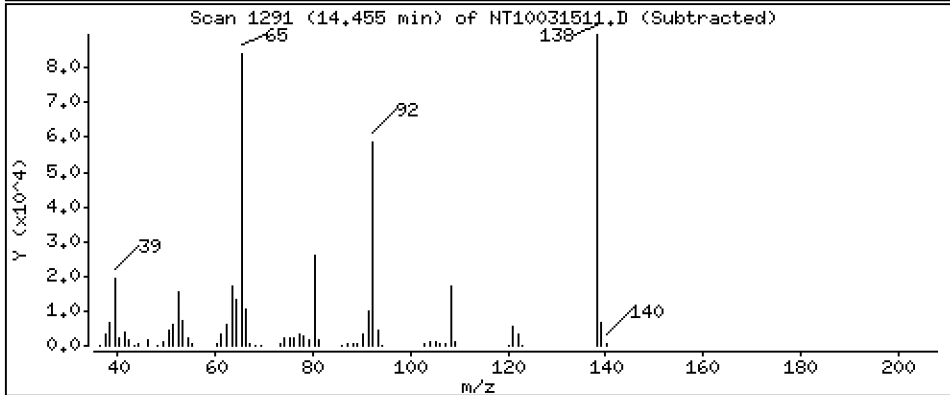
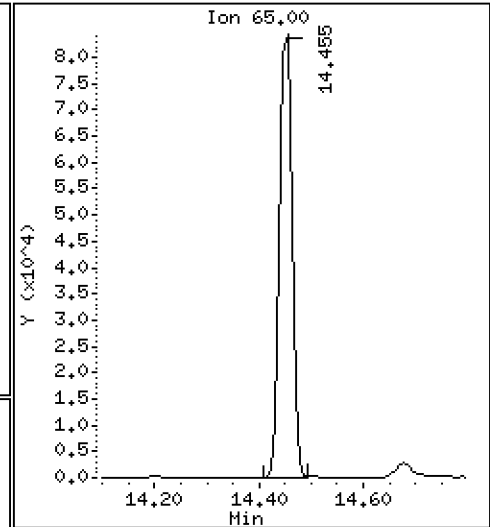
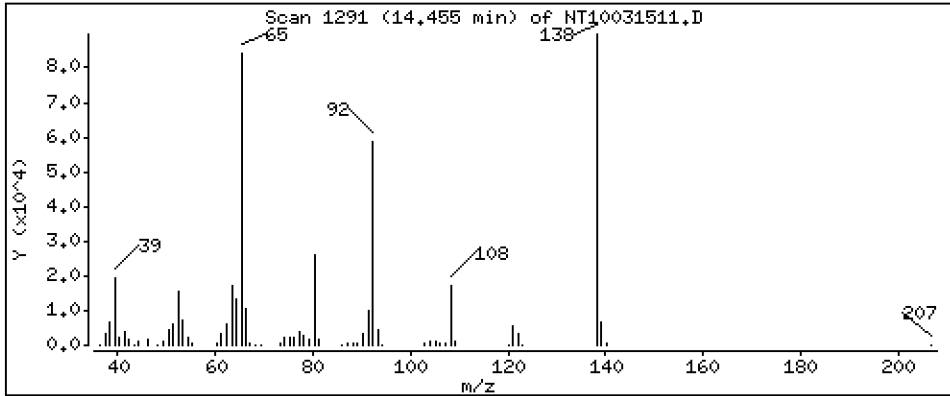
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

38 2-Nitroaniline

Concentration: 4,911 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

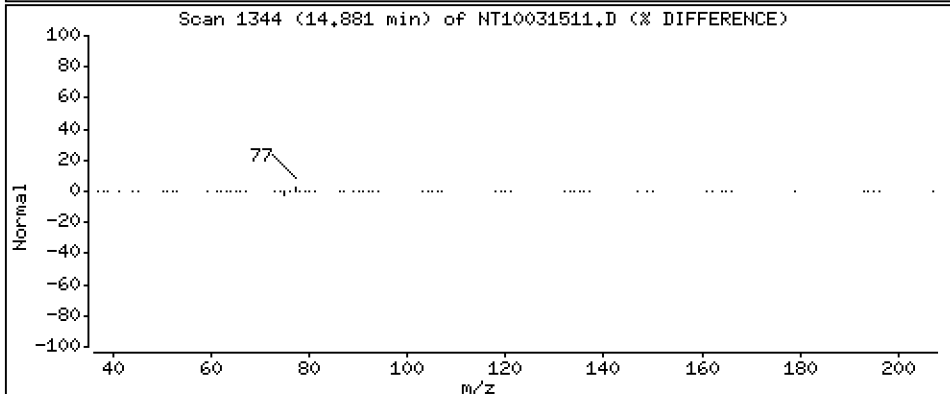
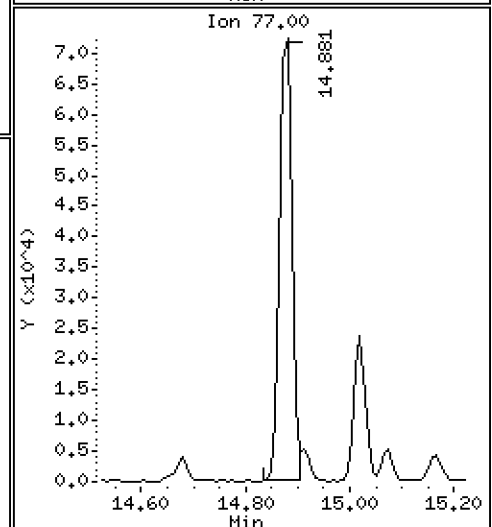
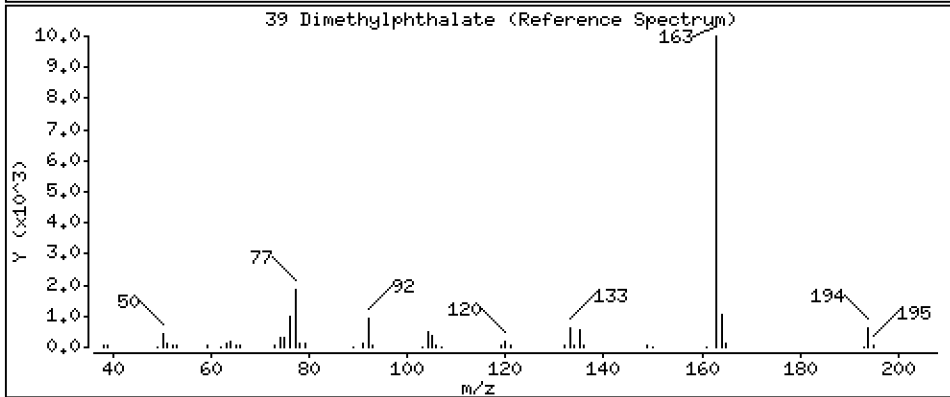
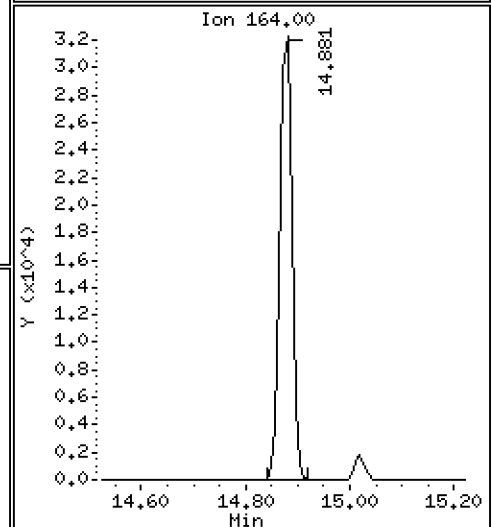
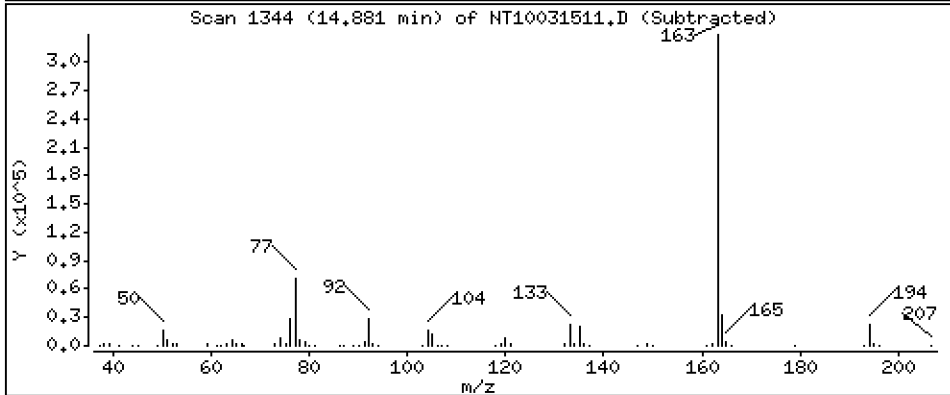
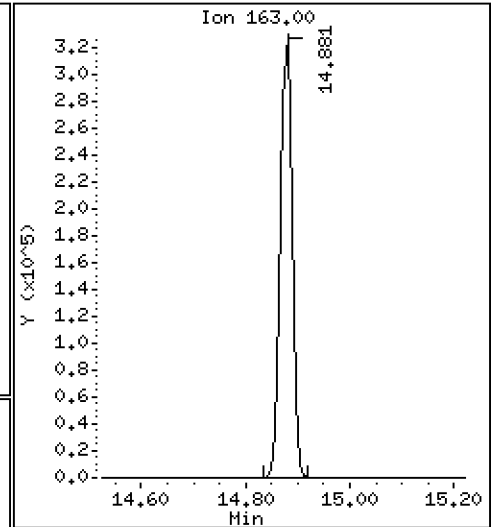
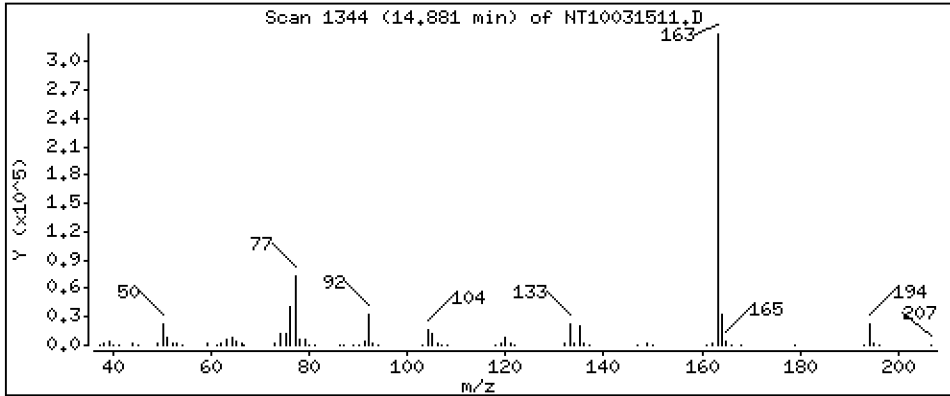
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

39 Dimethylphthalate

Concentration: 4.937 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

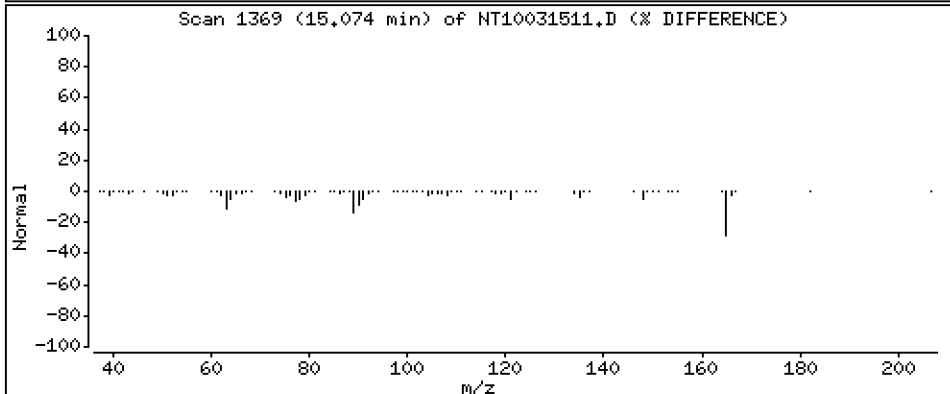
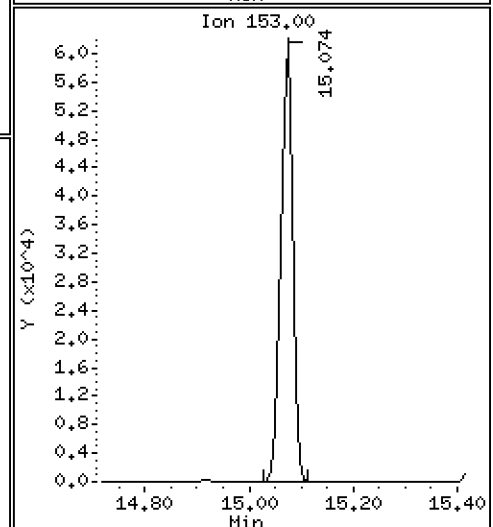
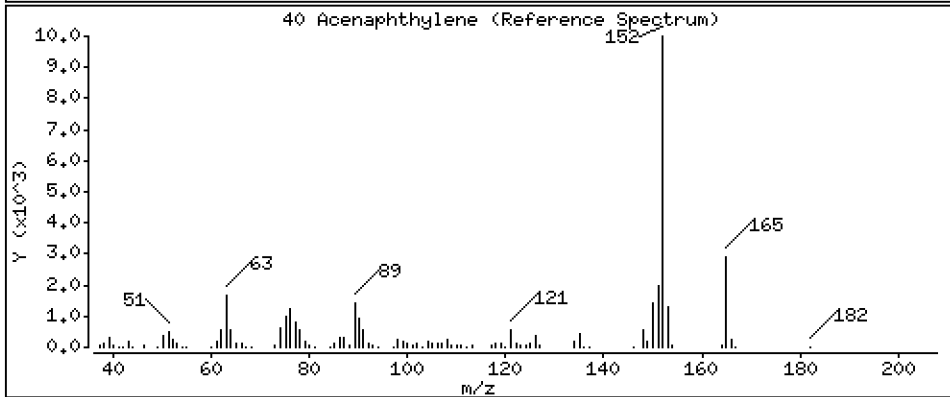
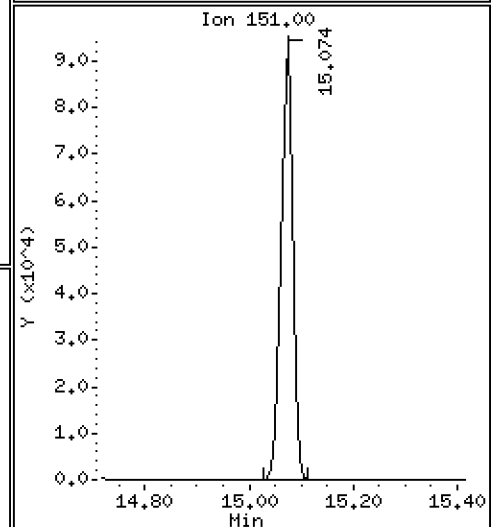
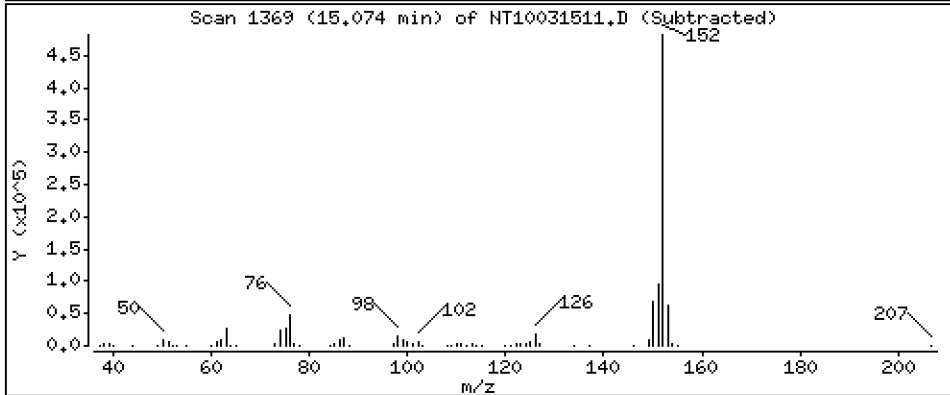
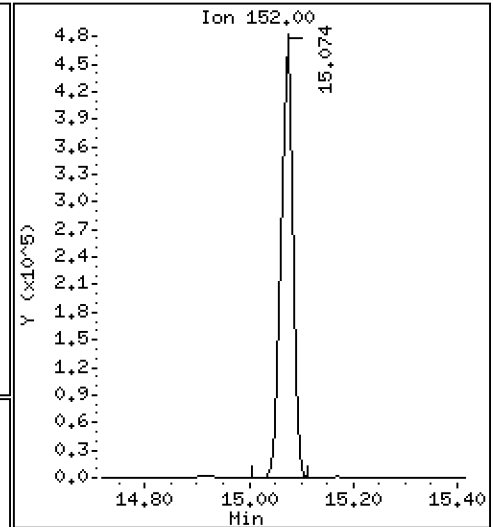
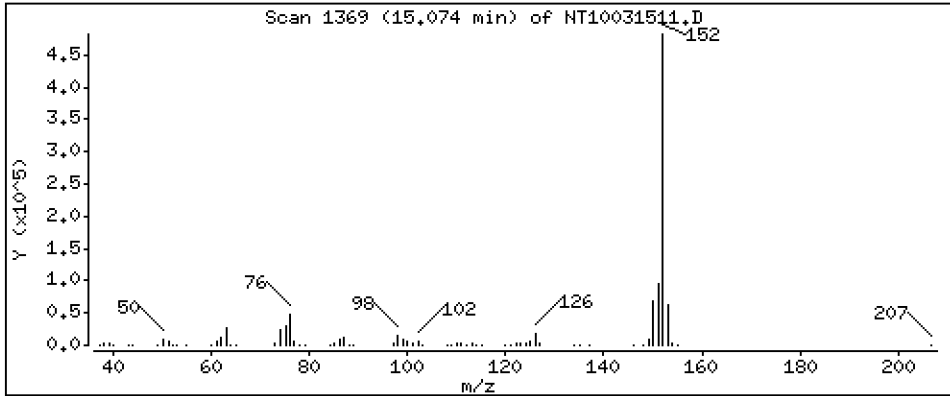
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 4,805 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

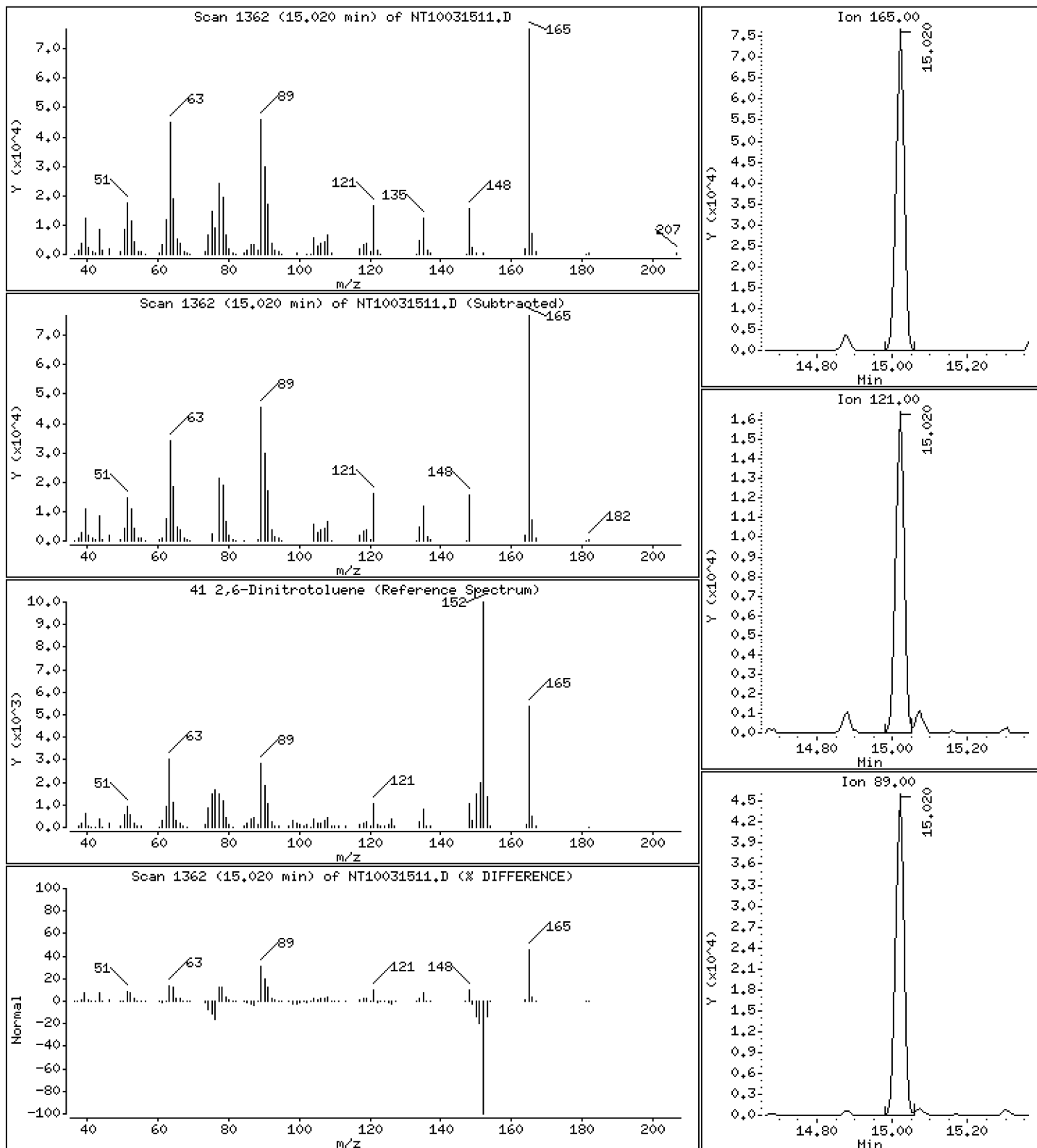
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

41 2,6-Dinitrotoluene

Concentration: 5,298 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

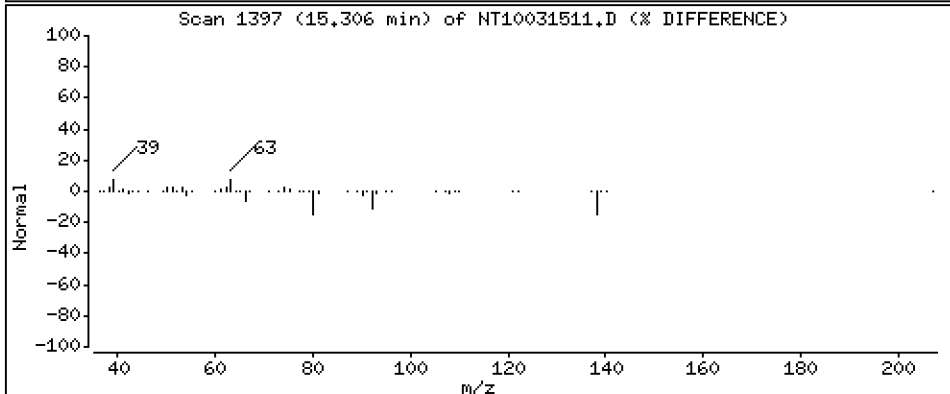
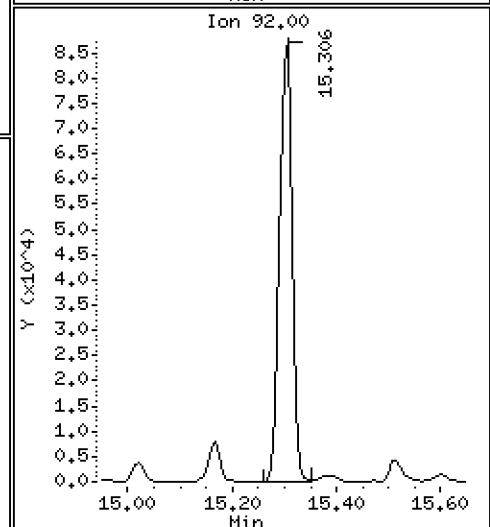
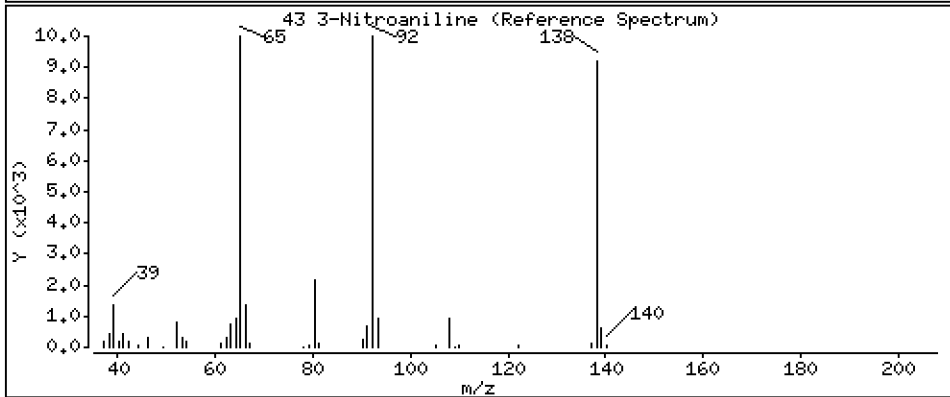
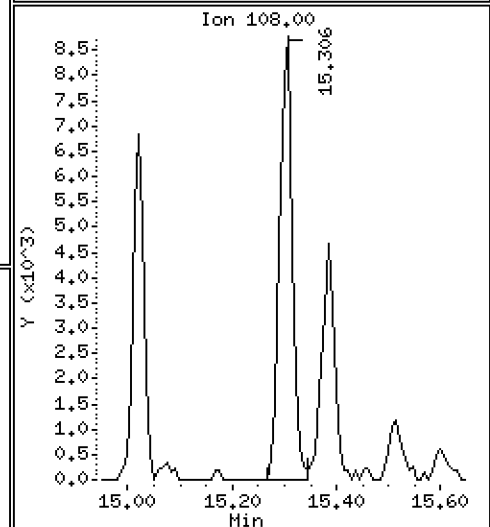
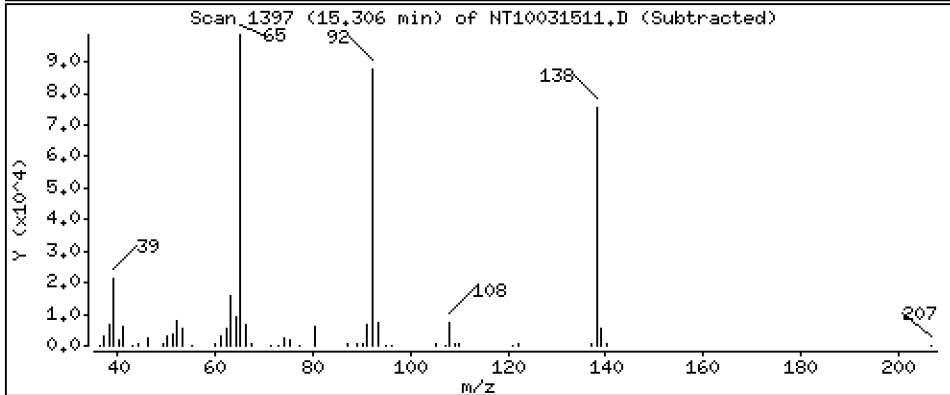
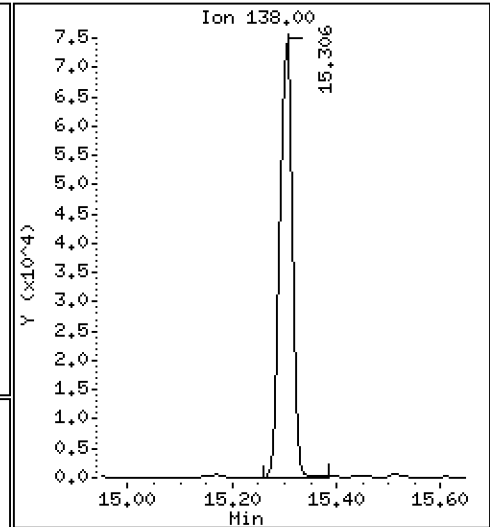
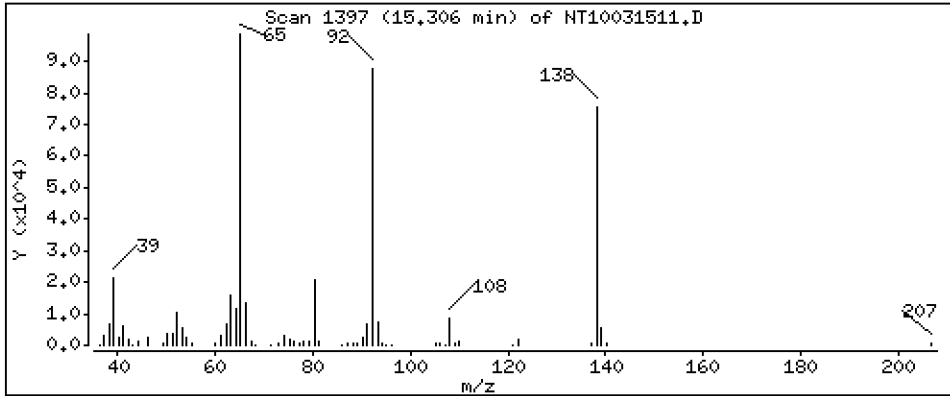
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

43 3-Nitroaniline

Concentration: 5,014 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

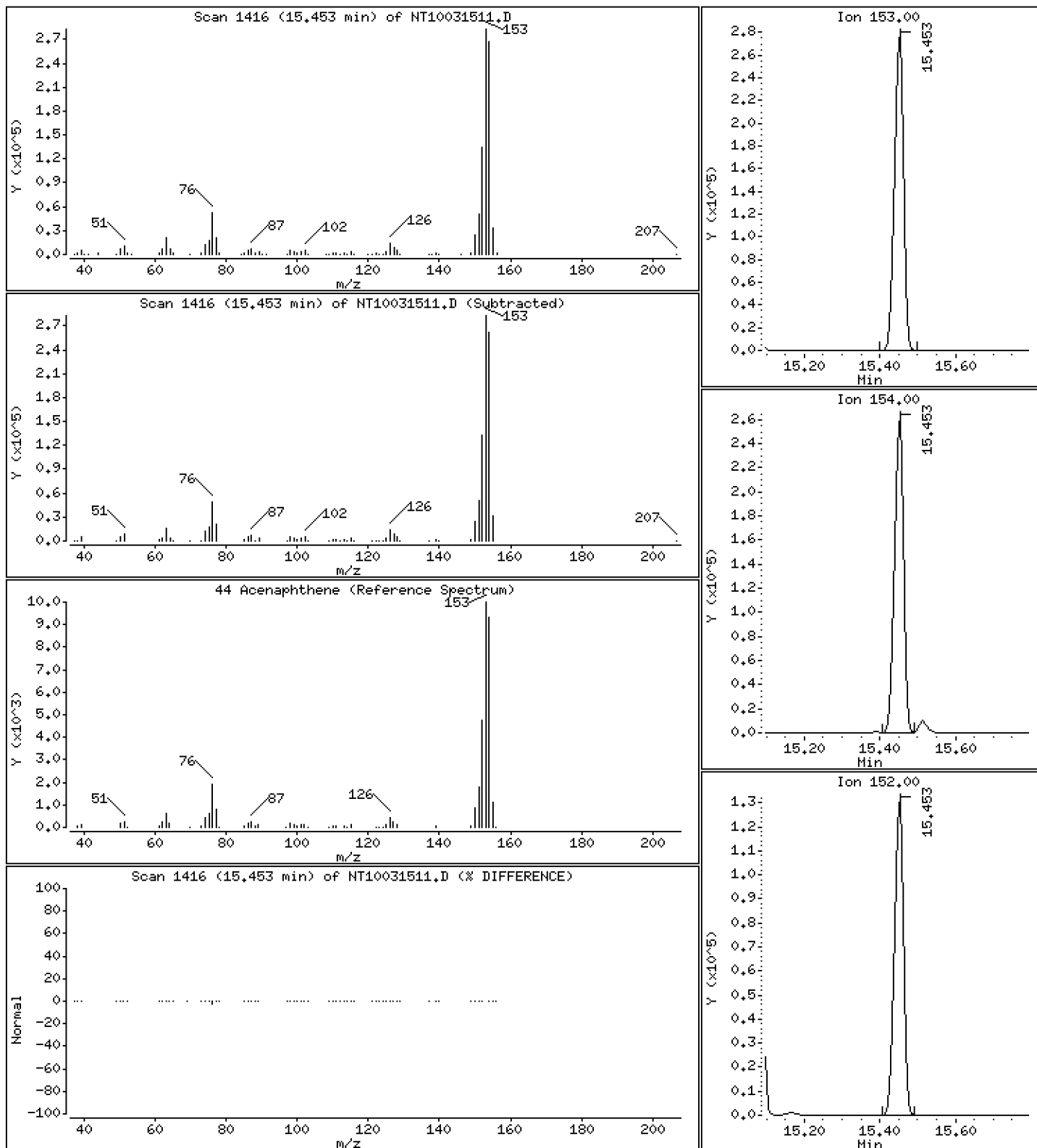
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 4,776 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

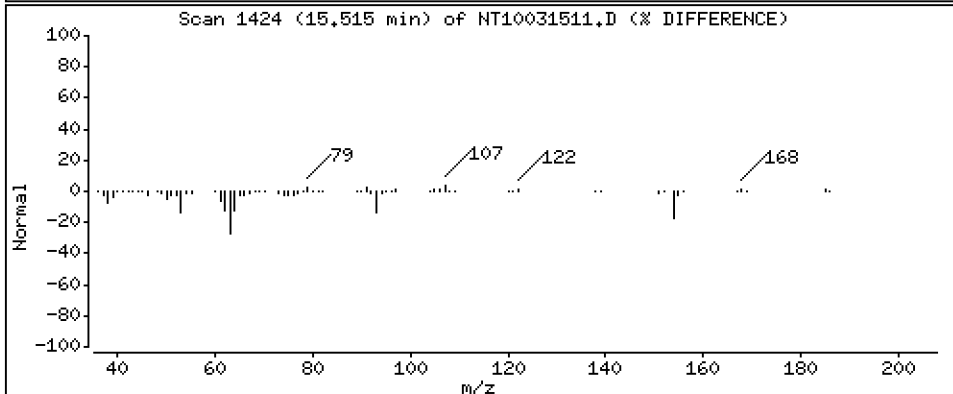
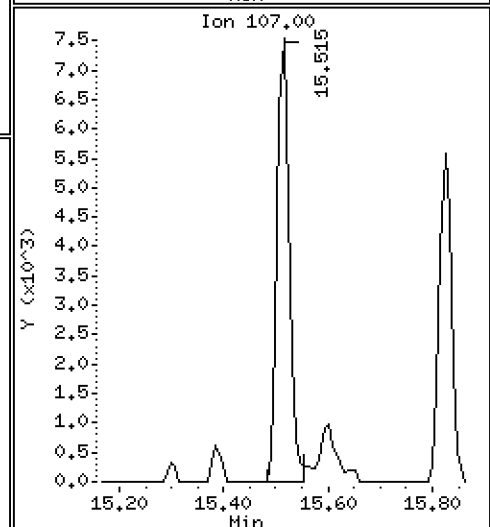
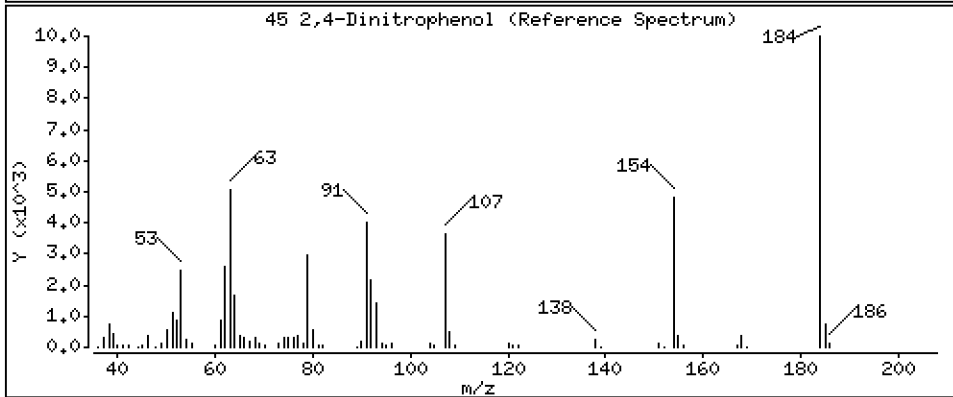
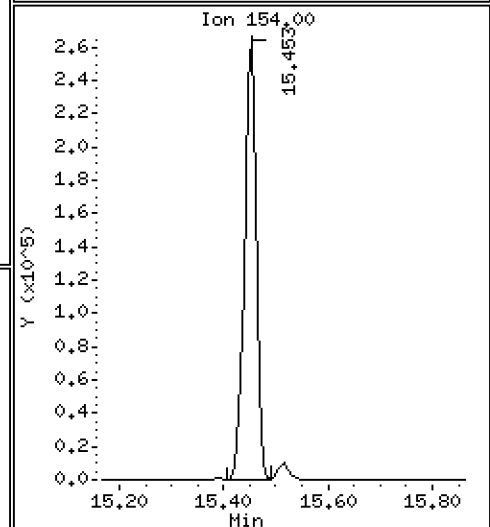
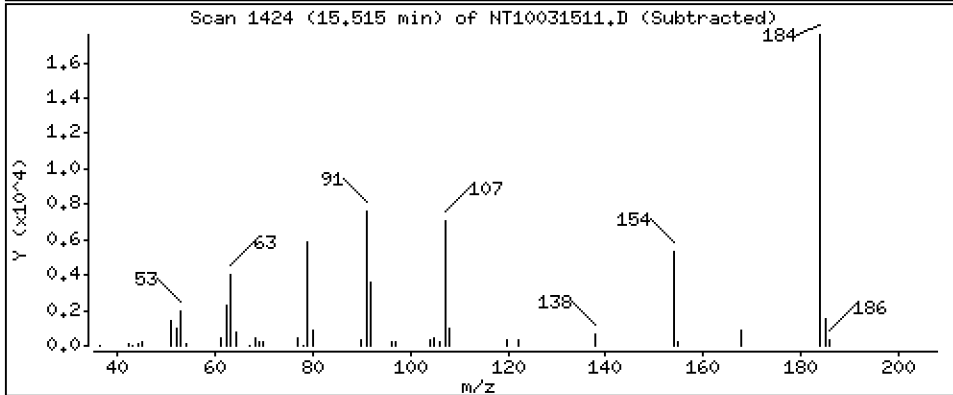
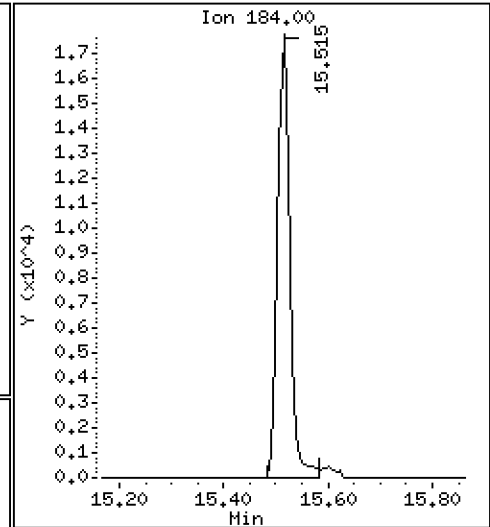
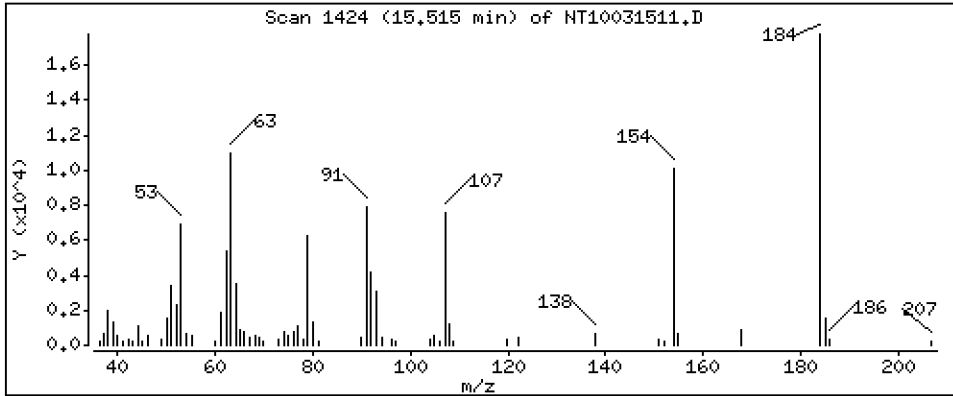
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

45 2,4-Dinitrophenol

Concentration: 2,124 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

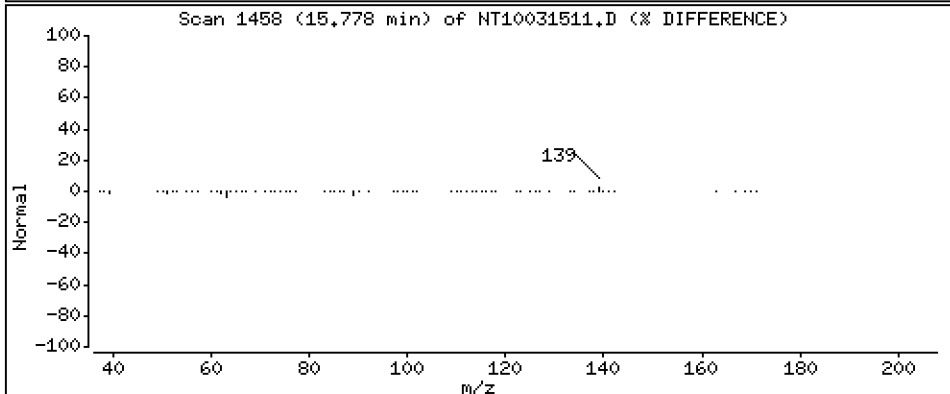
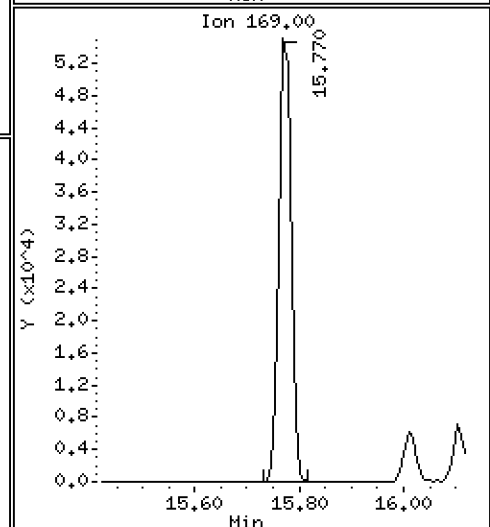
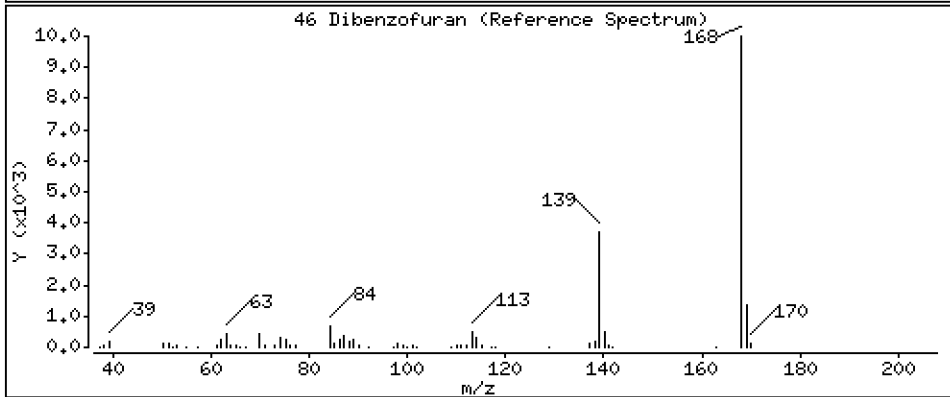
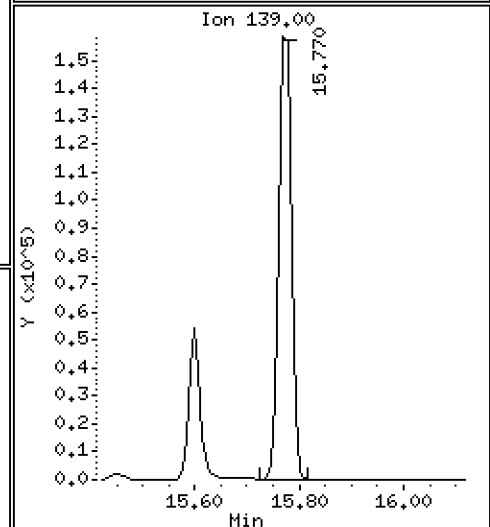
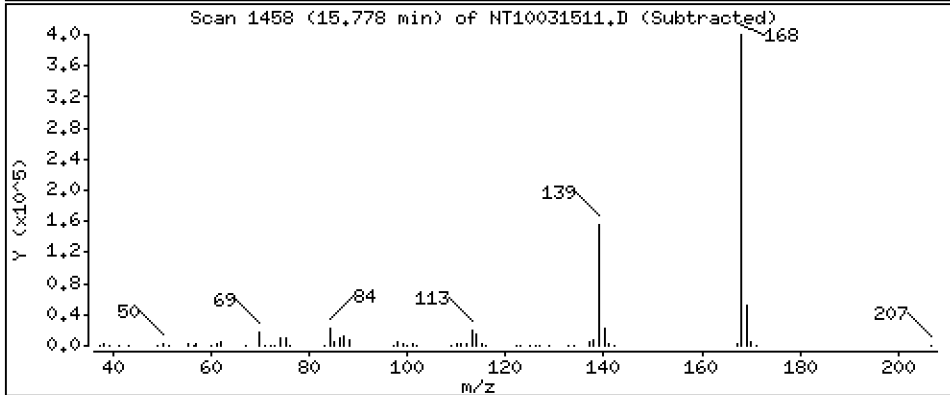
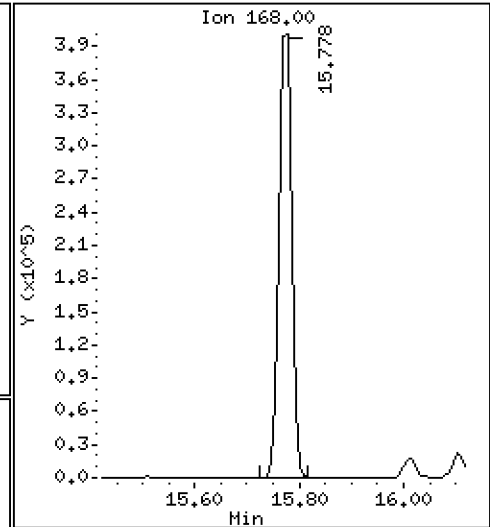
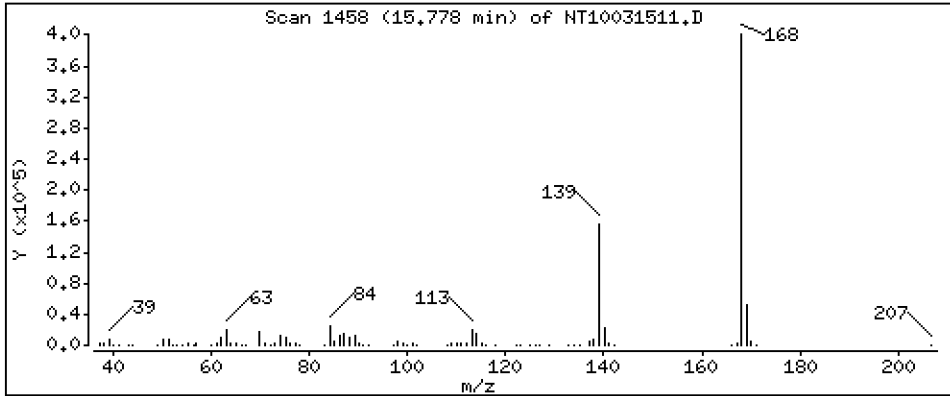
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 4,648 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

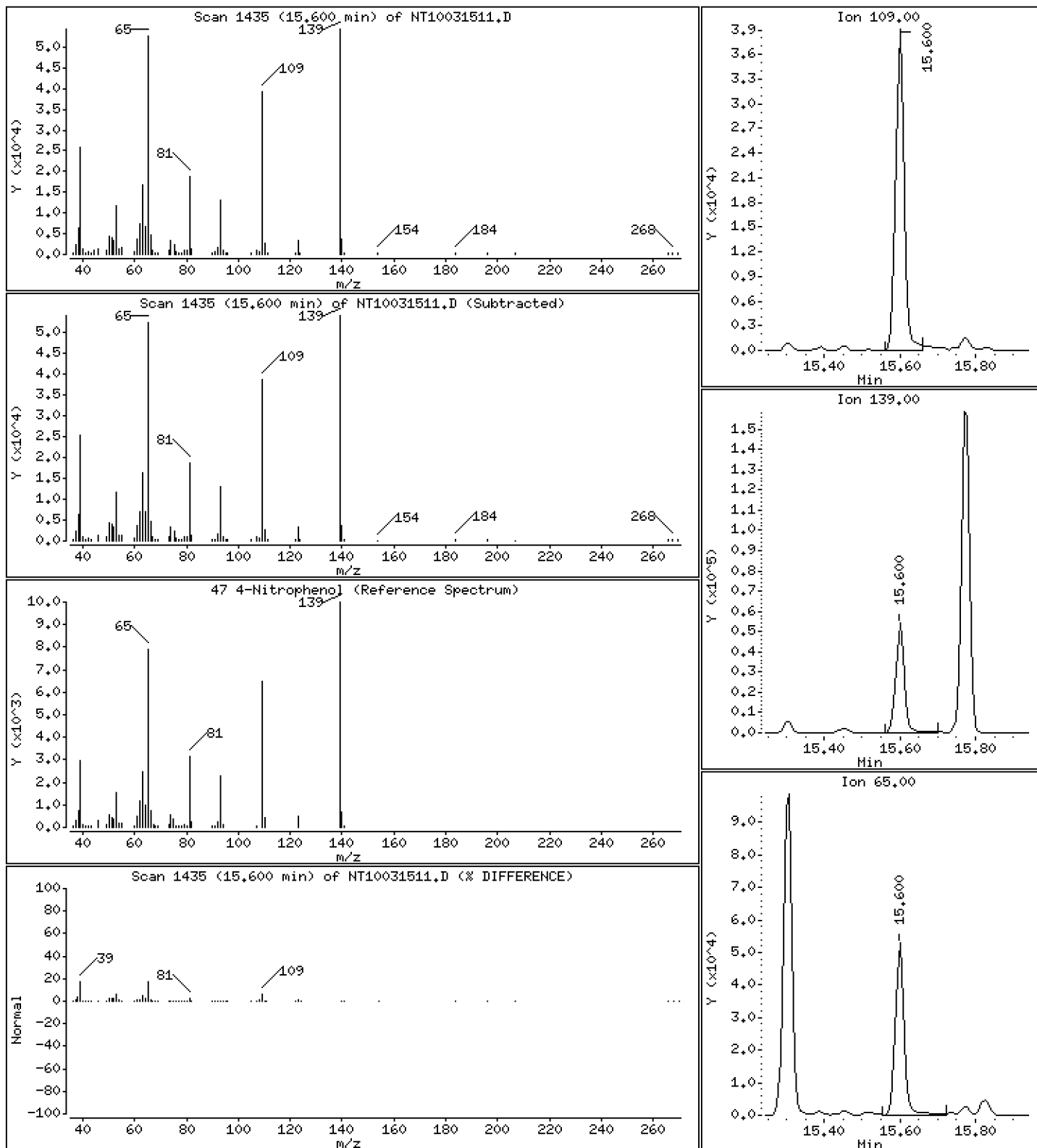
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

47 4-Nitrophenol

Concentration: 3,966 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

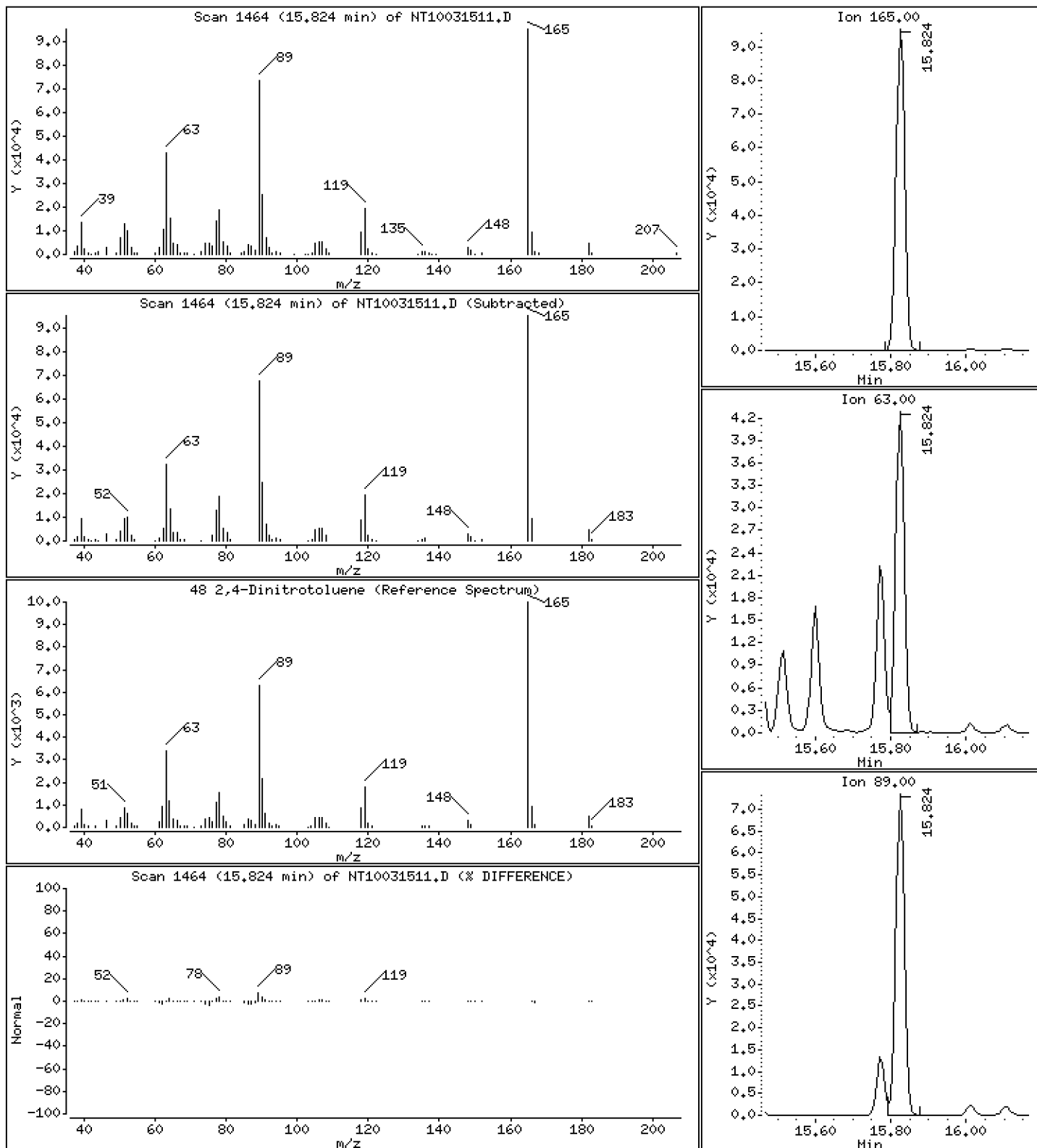
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

48 2,4-Dinitrotoluene

Concentration: 4,510 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

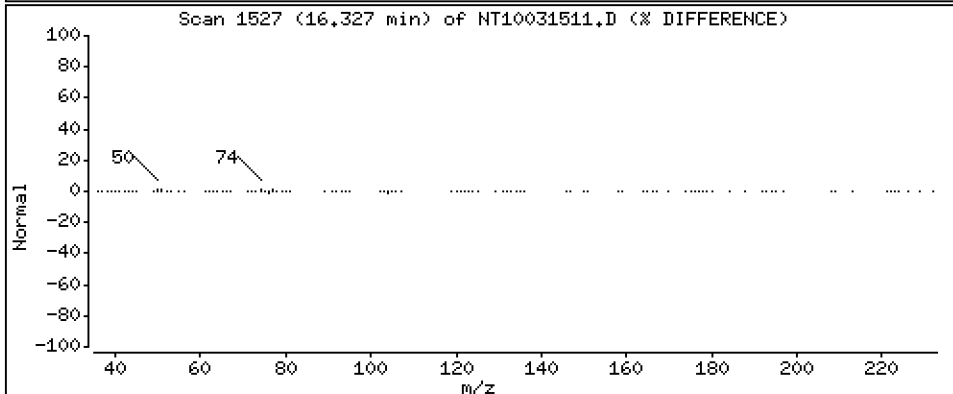
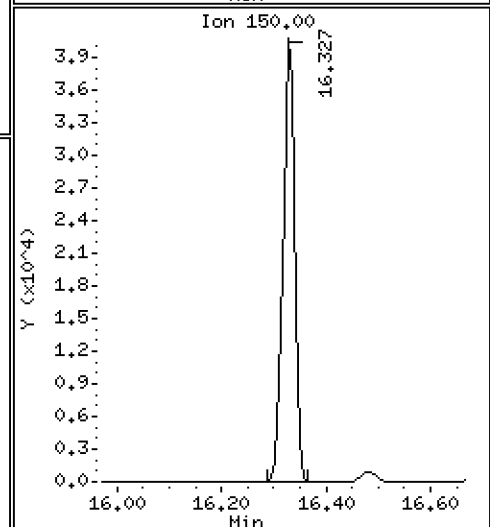
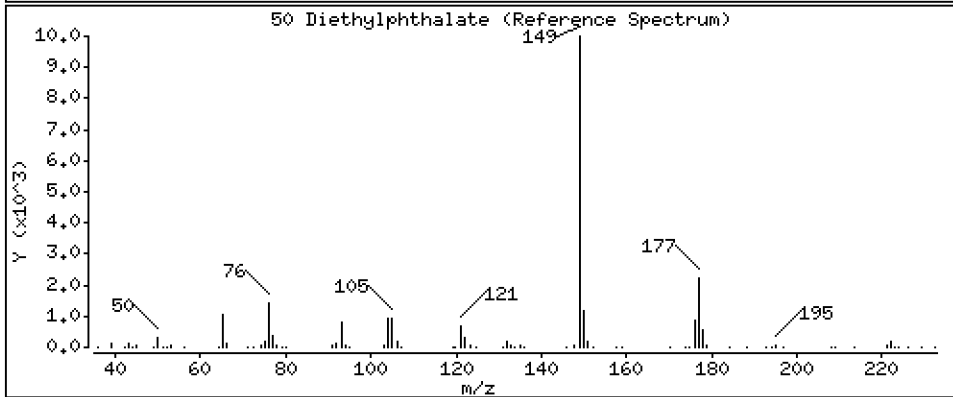
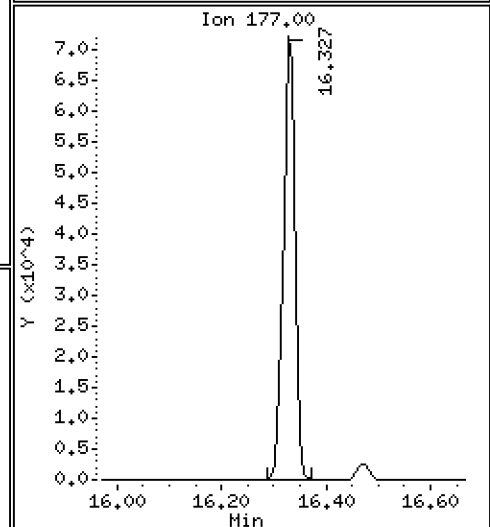
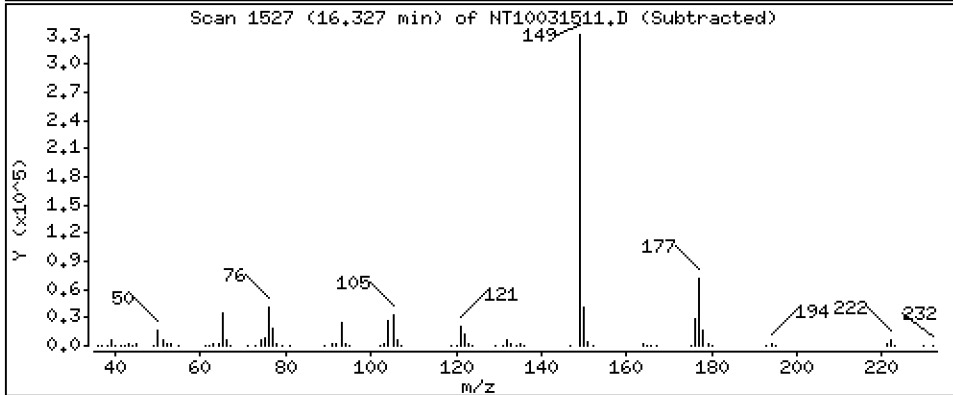
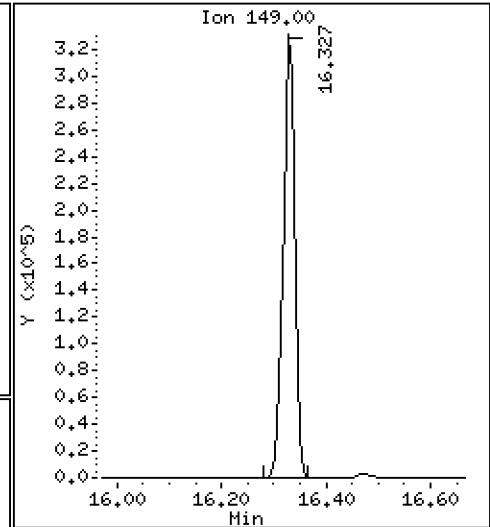
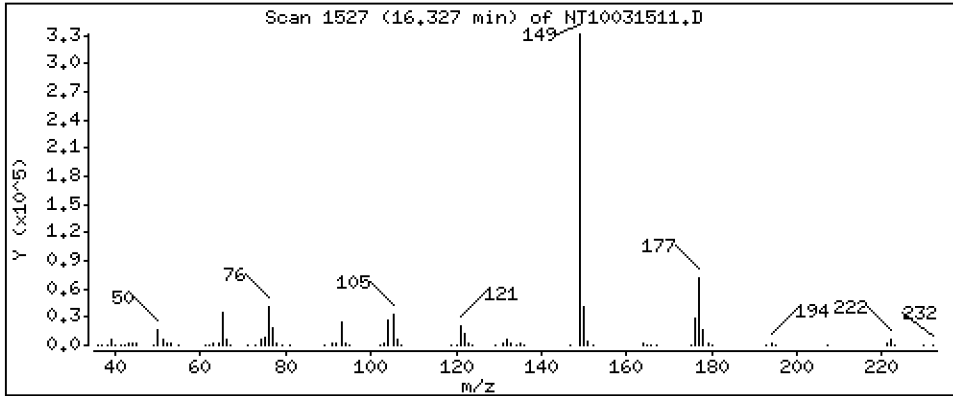
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 5,209 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

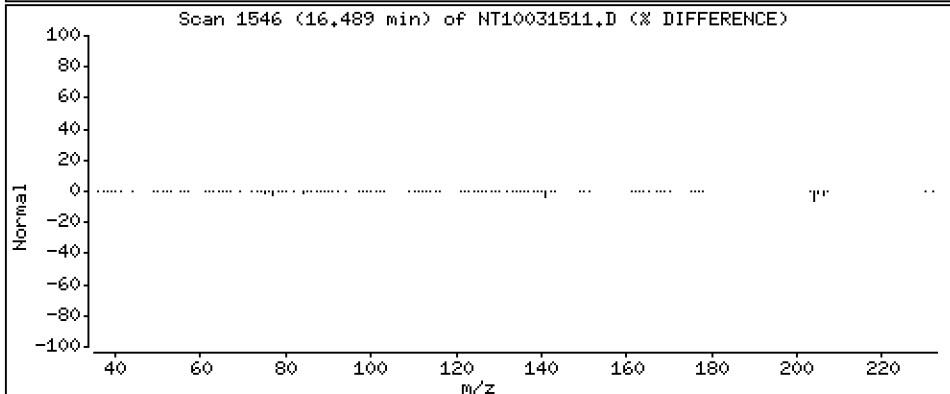
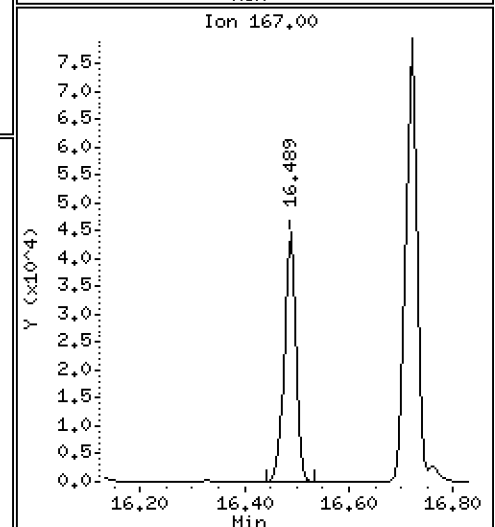
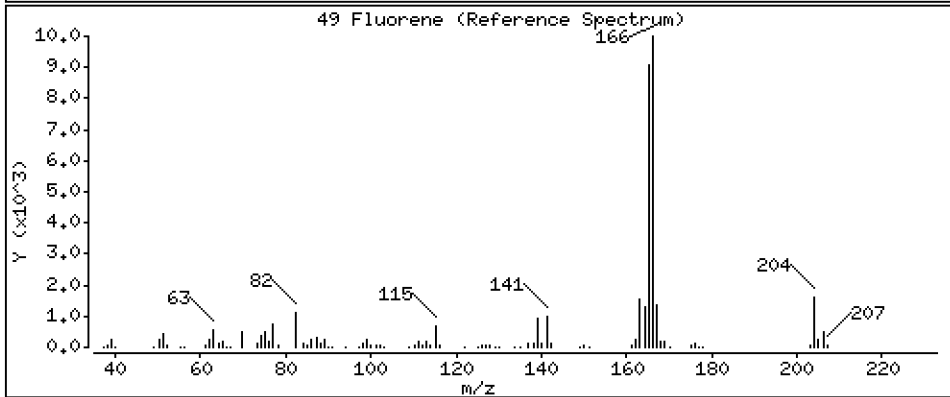
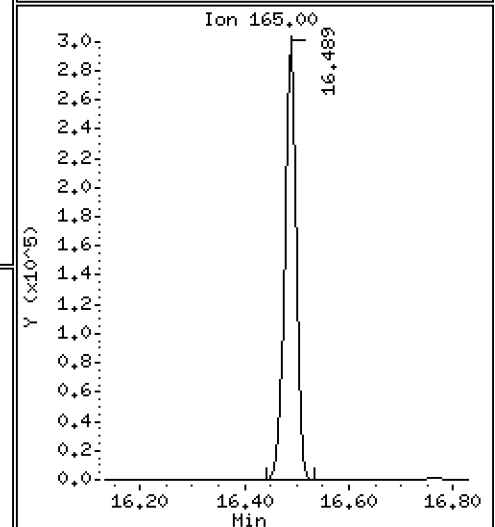
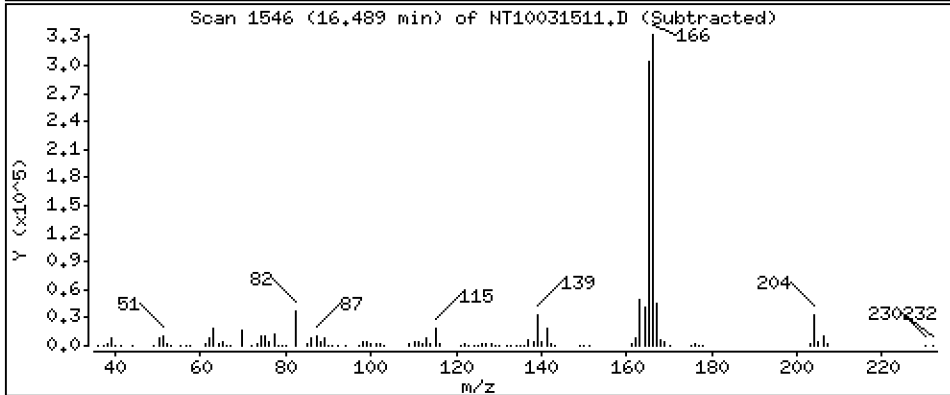
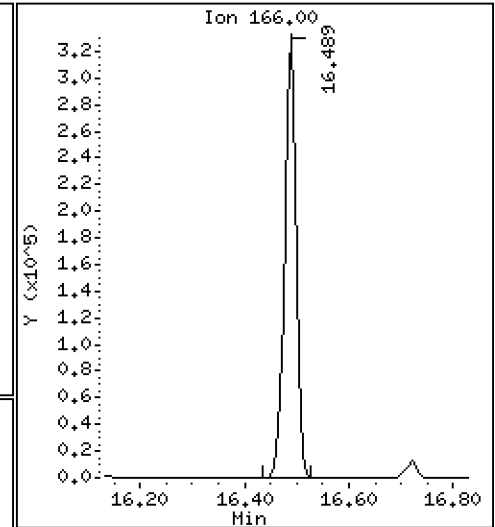
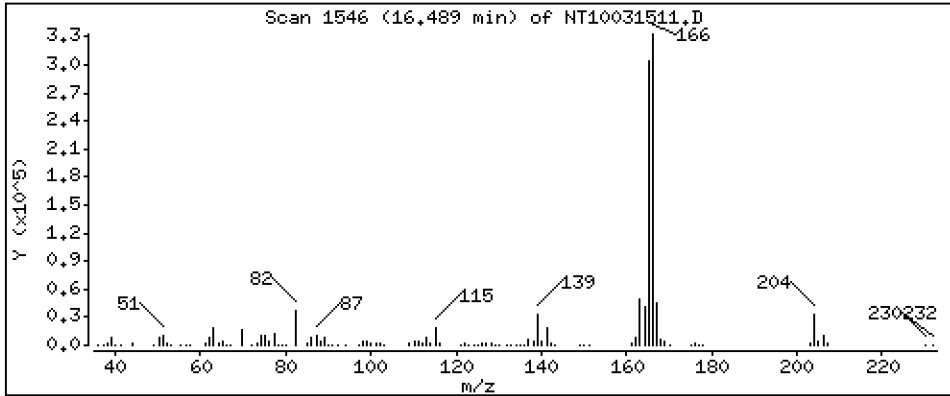
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 4,708 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

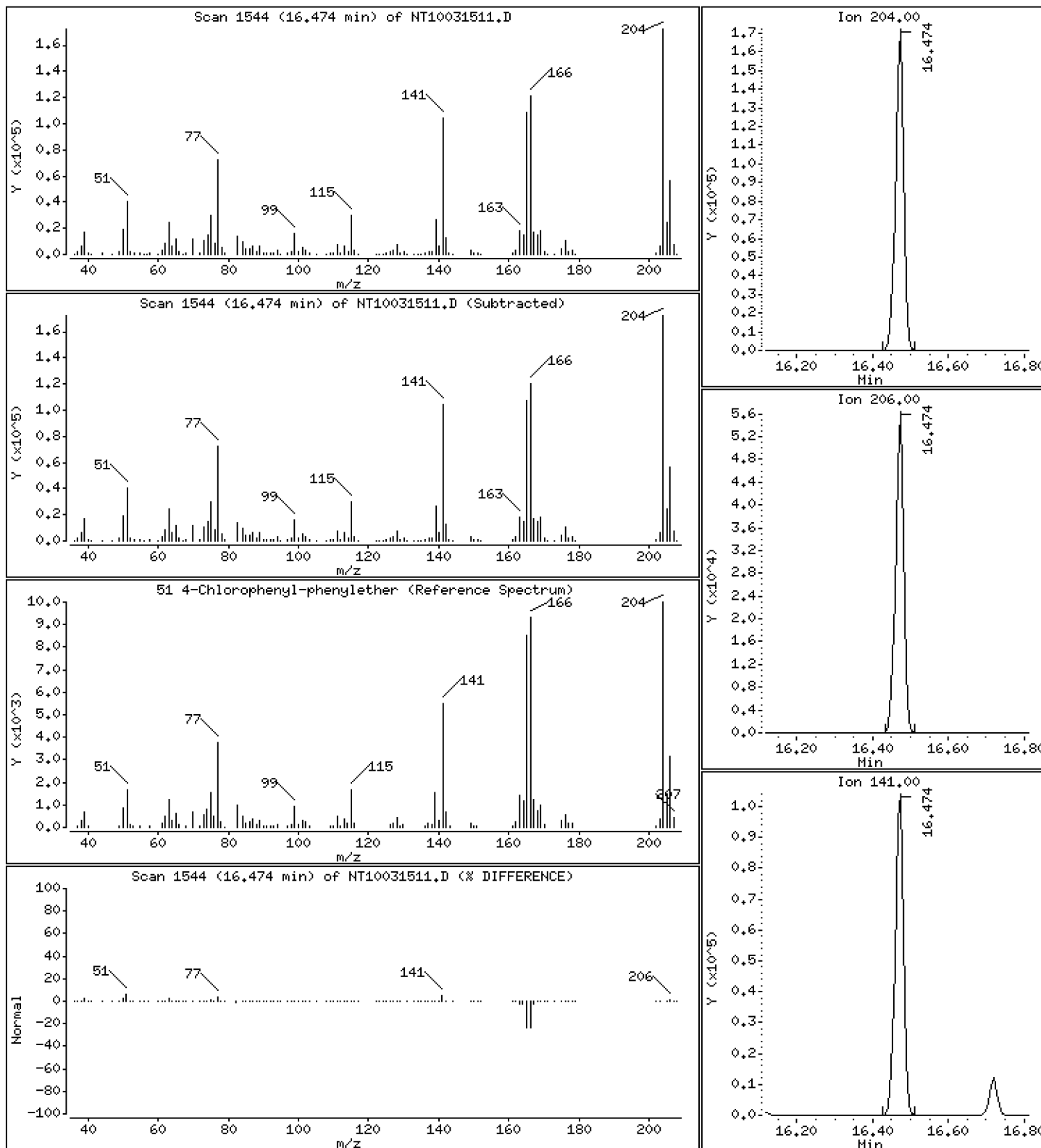
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 4,993 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

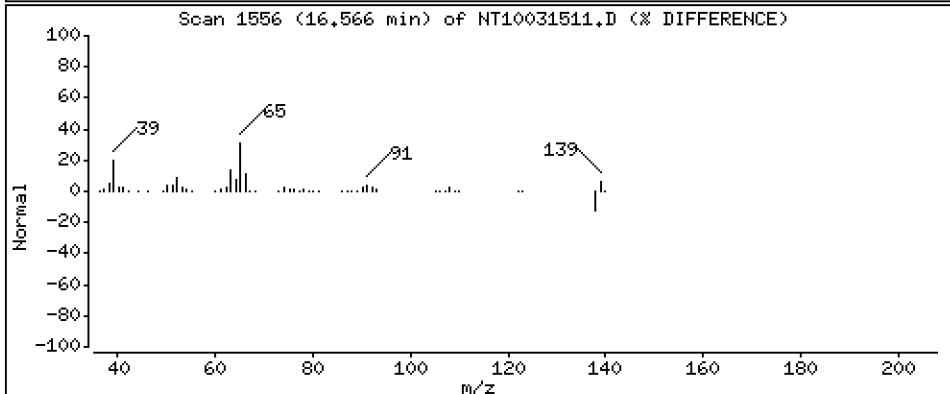
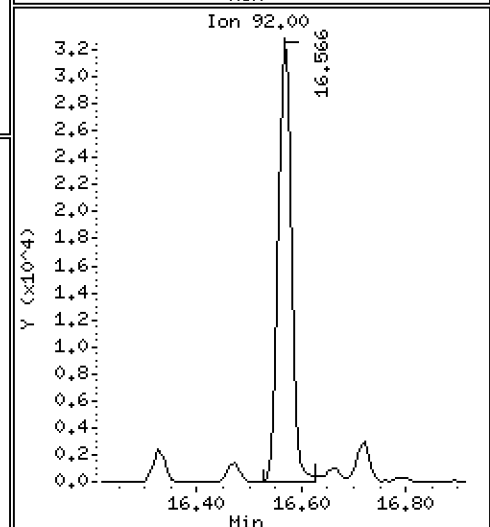
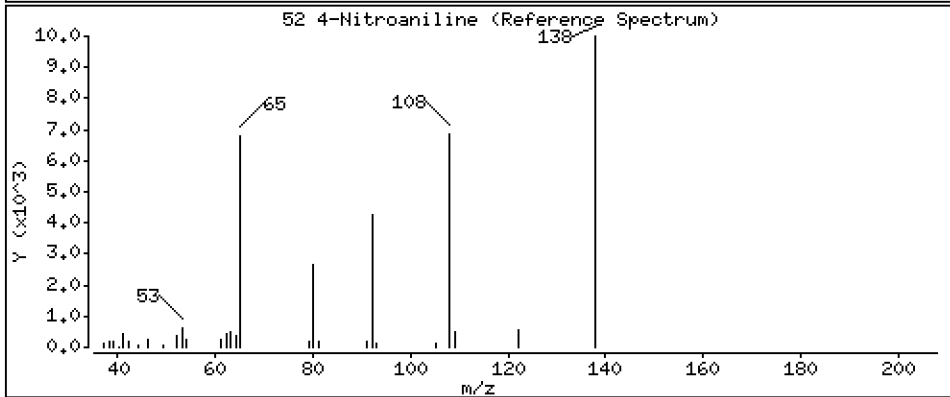
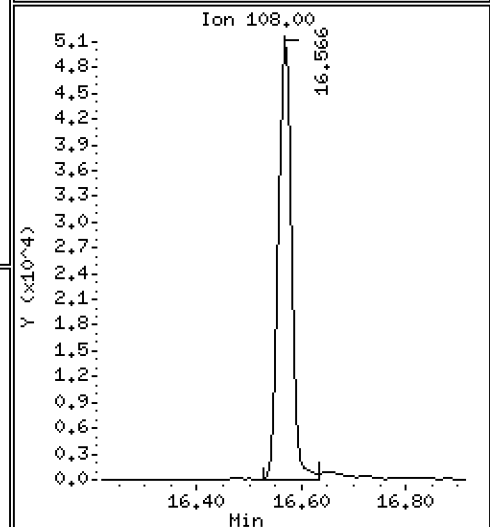
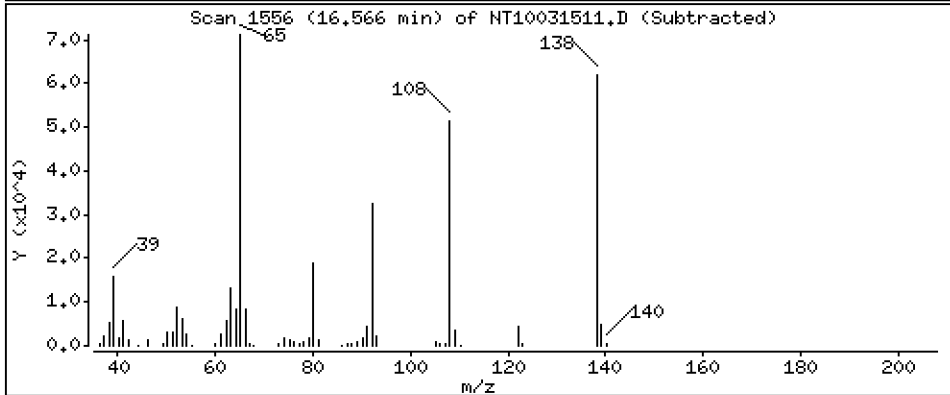
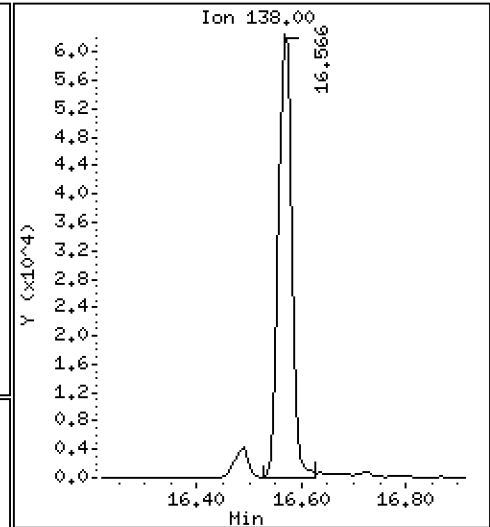
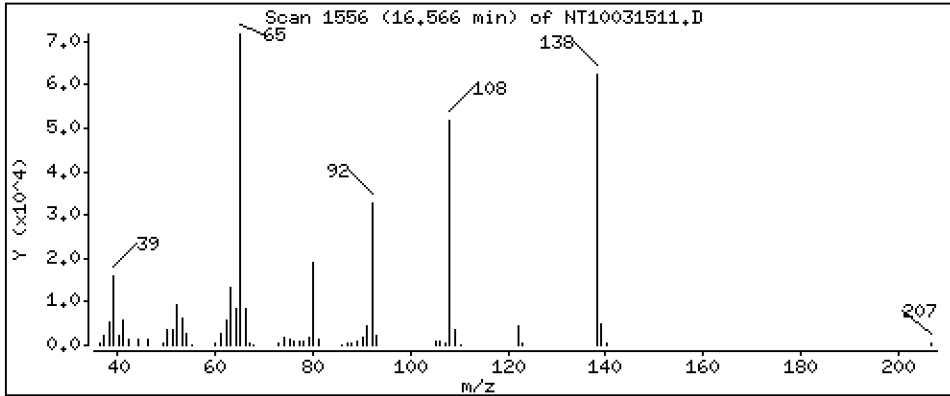
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

52 4-Nitroaniline

Concentration: 4,925 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

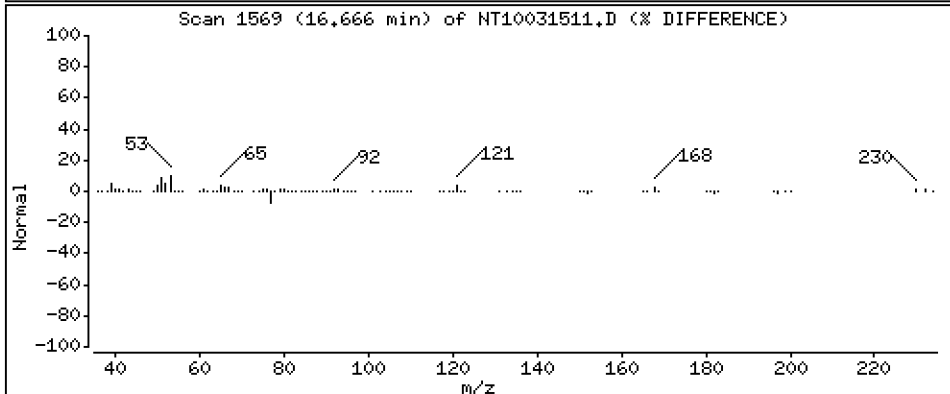
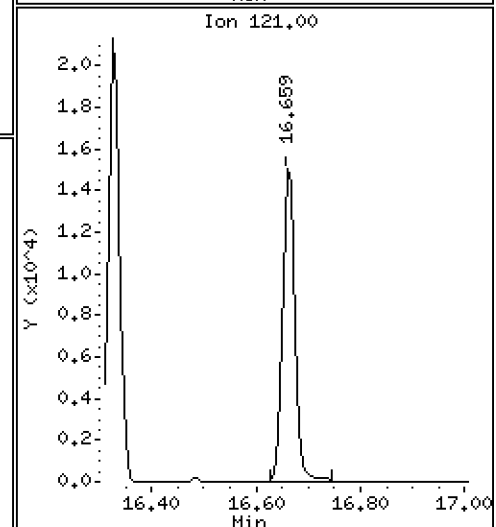
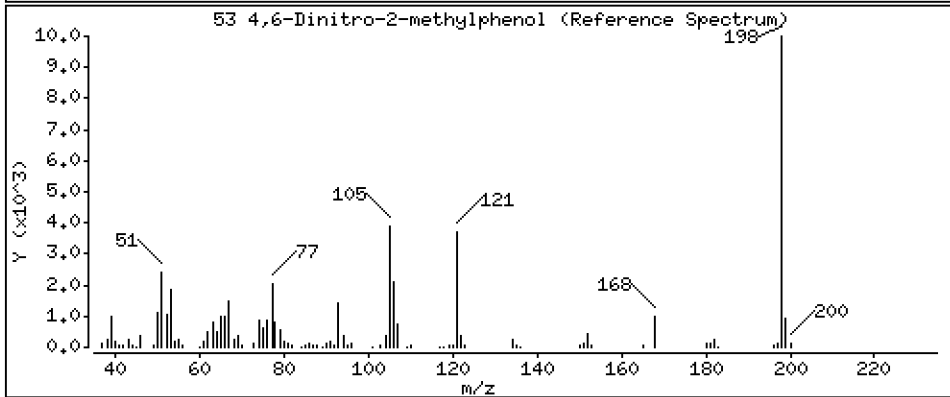
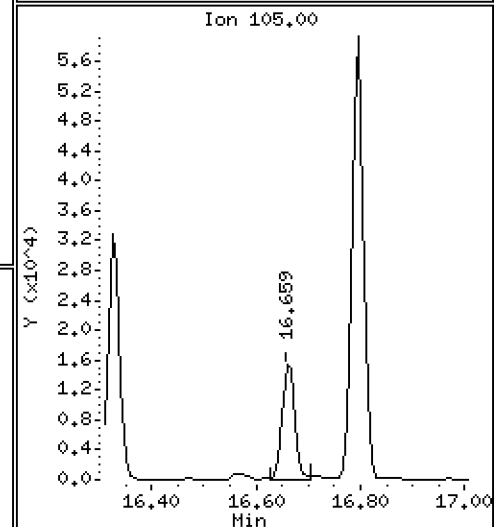
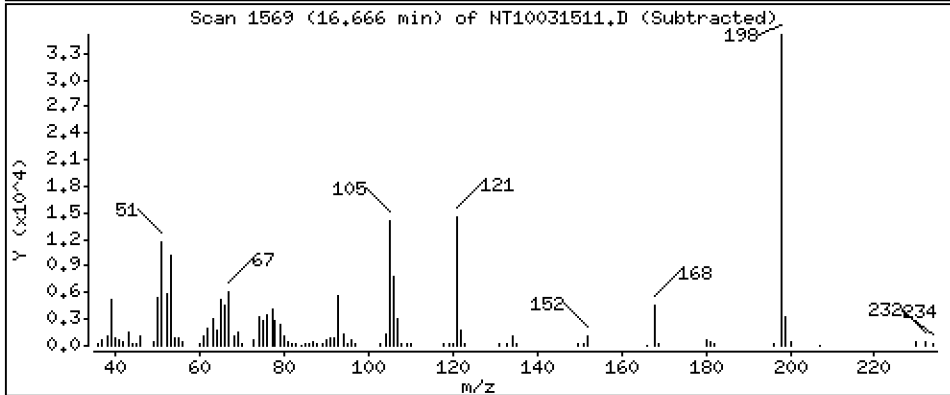
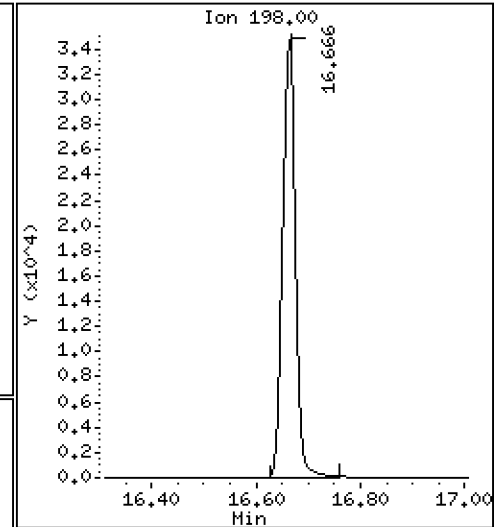
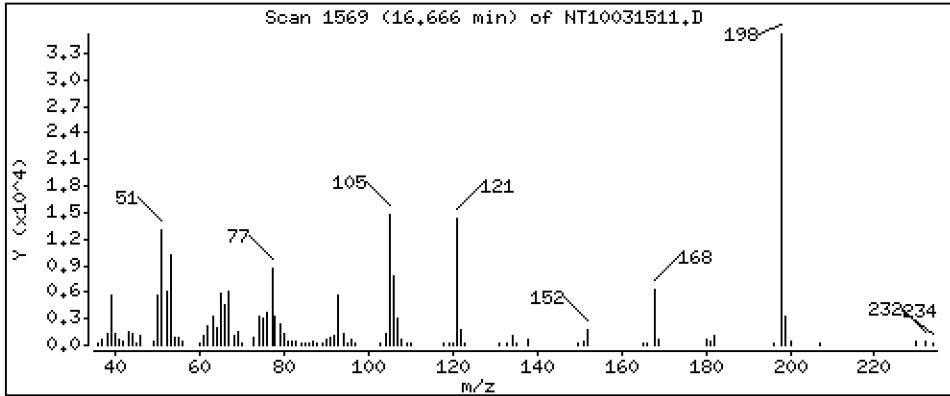
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

53 4,6-Dinitro-2-methylphenol

Concentration: 3.515 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

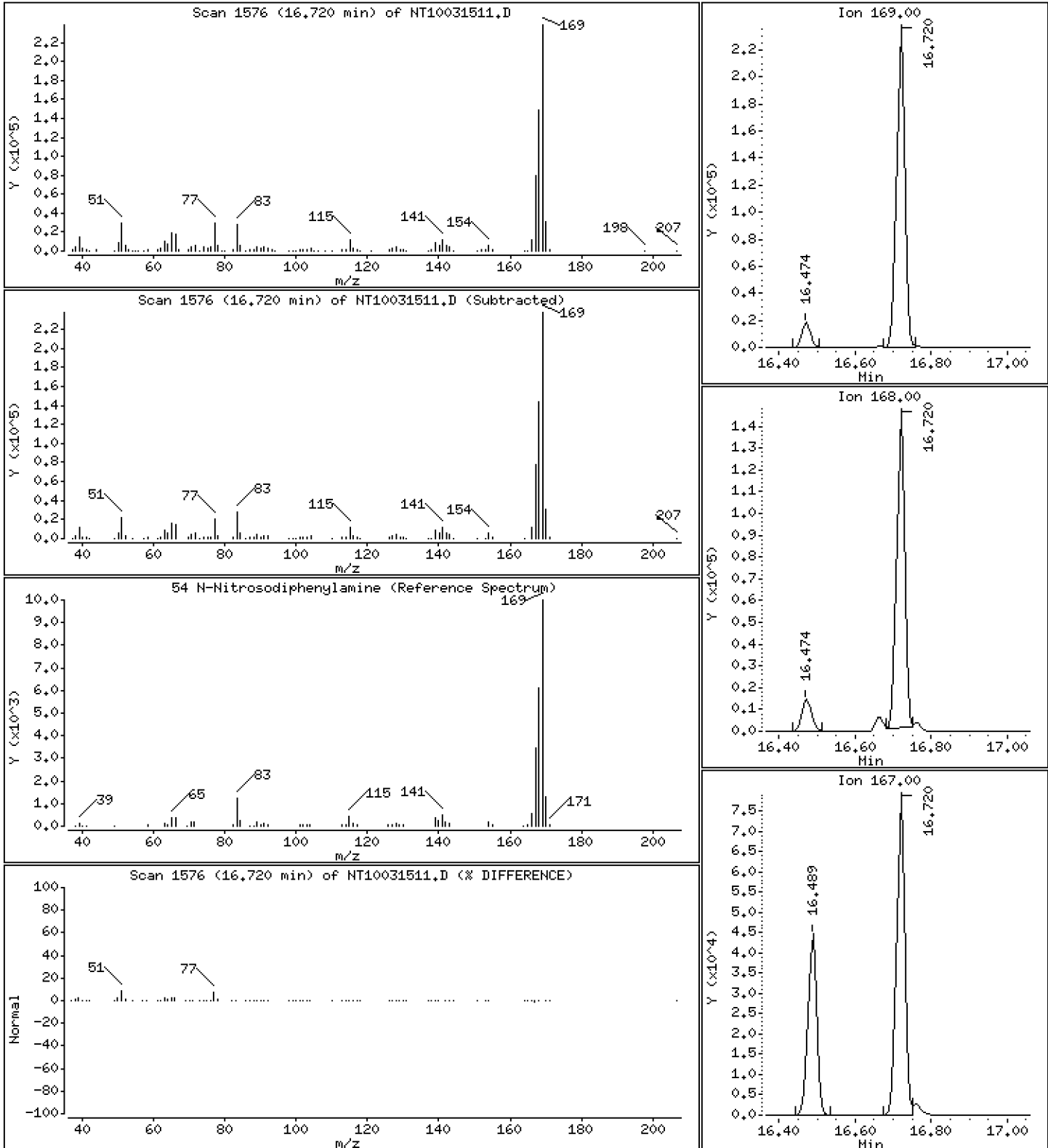
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

54 N-Nitrosodiphenylamine

Concentration: 4,802 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

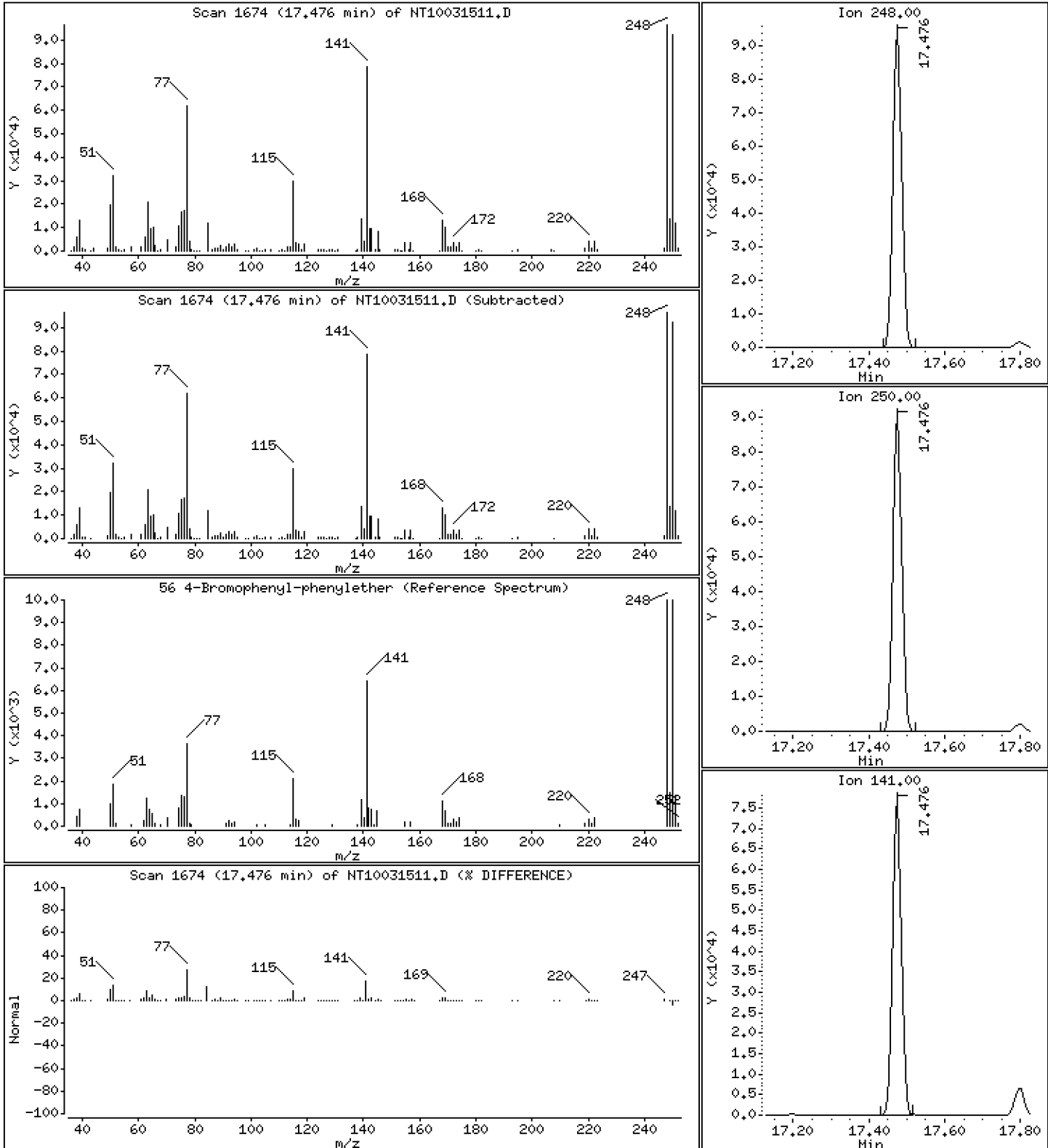
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 5,060 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

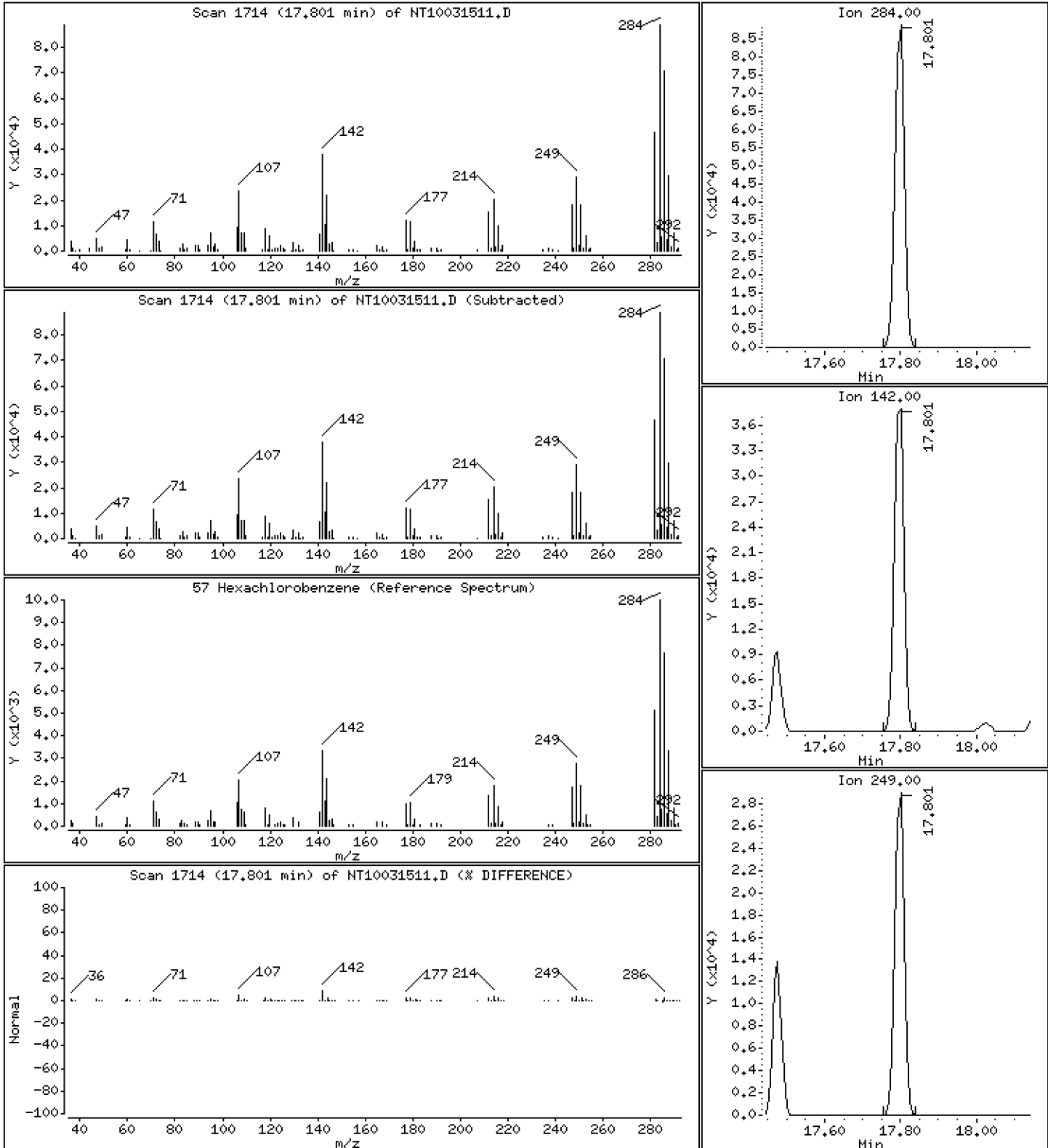
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

57 Hexachlorobenzene

Concentration: 4,596 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

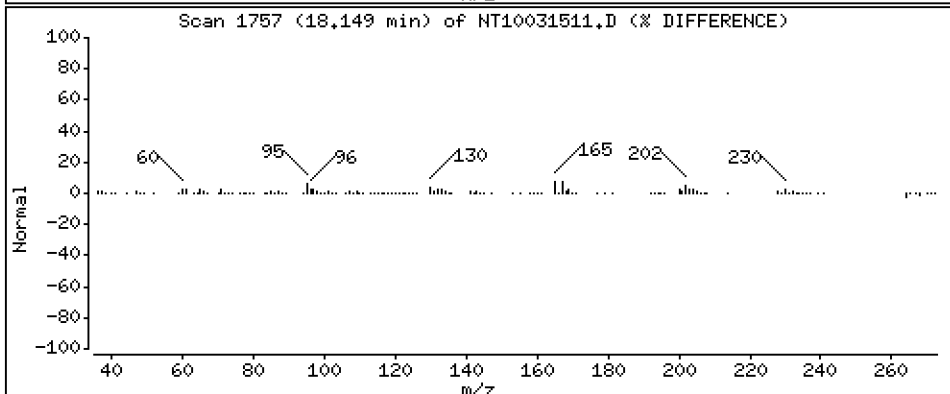
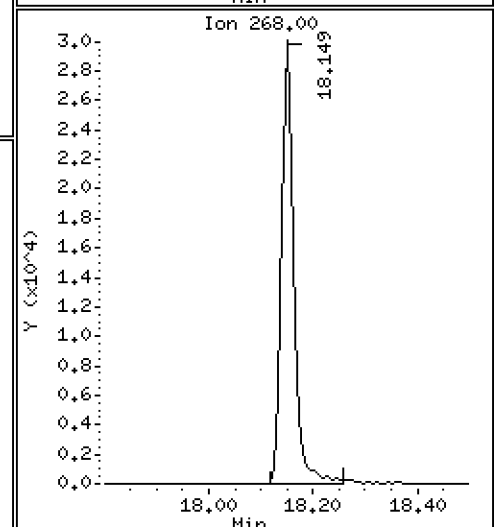
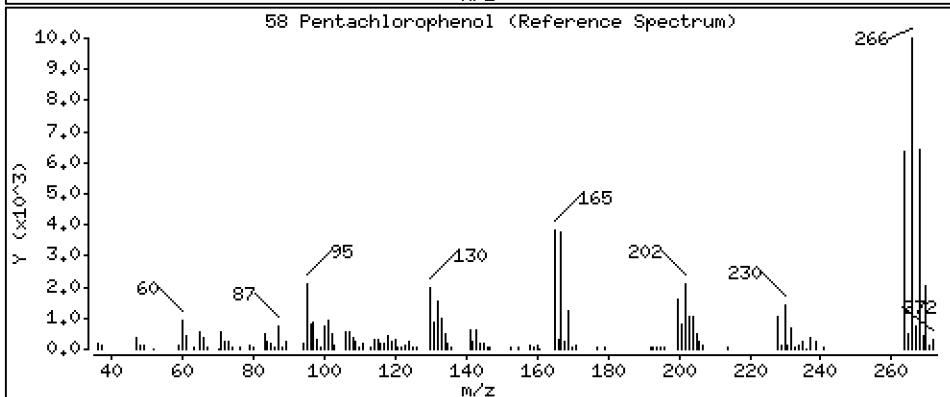
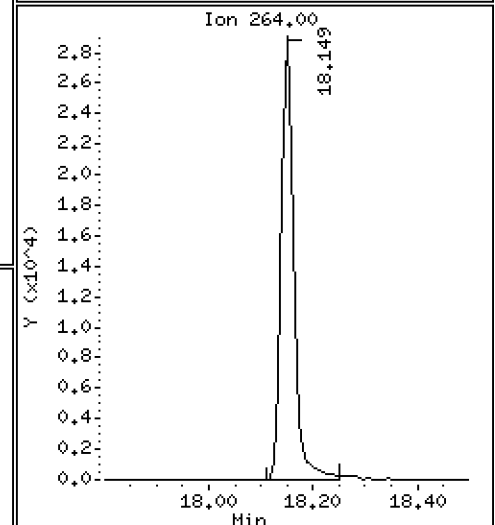
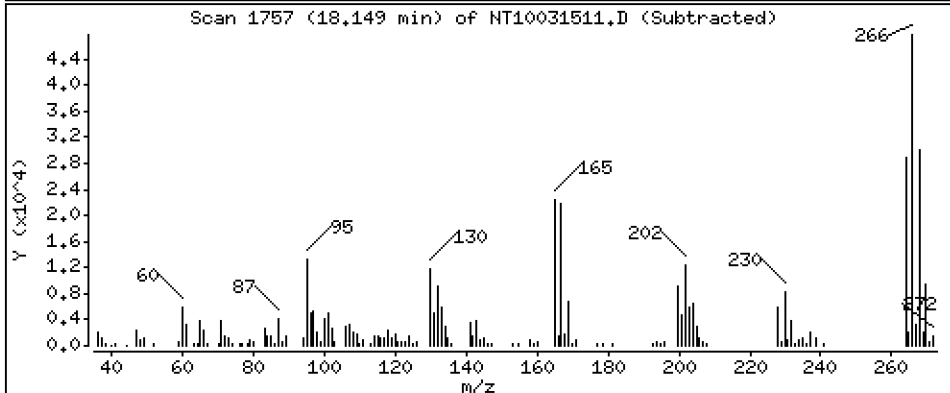
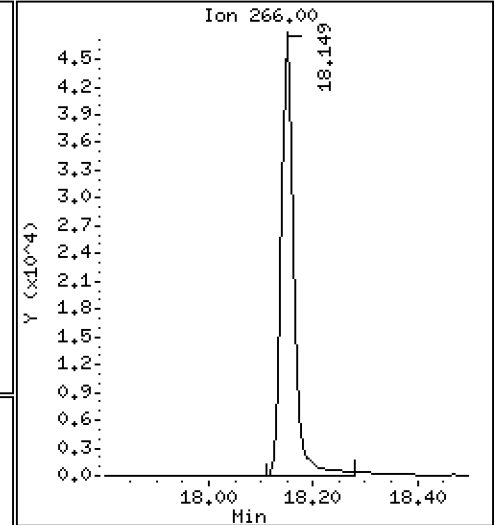
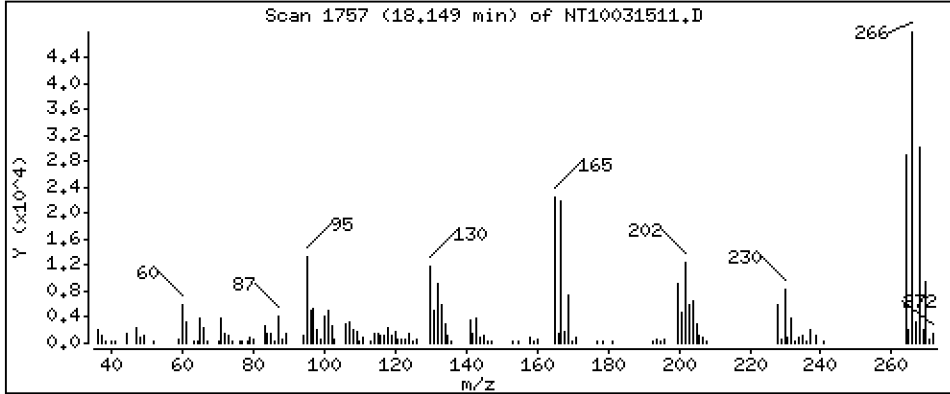
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 4,057 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

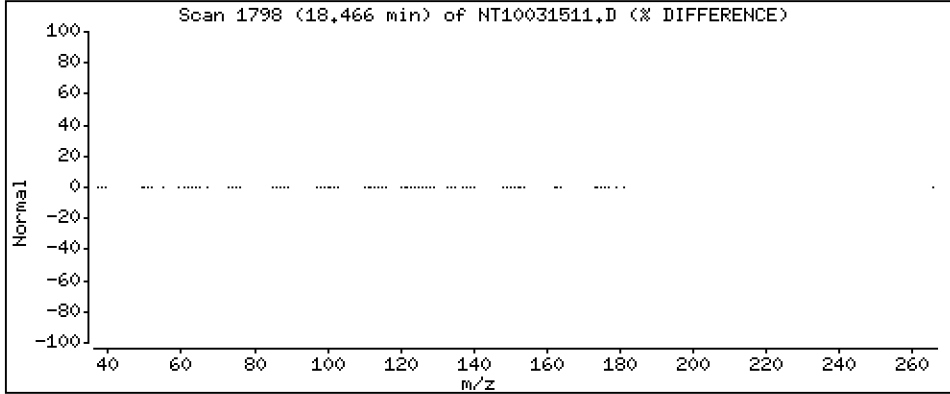
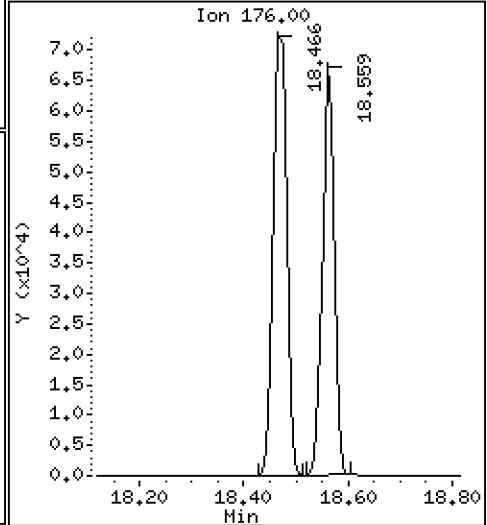
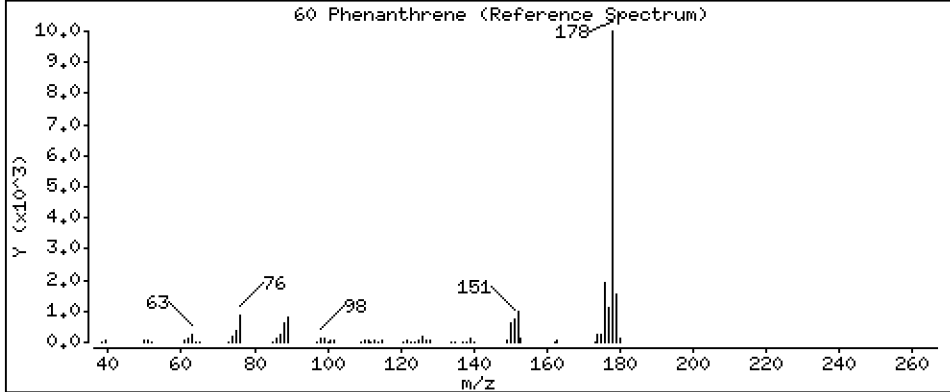
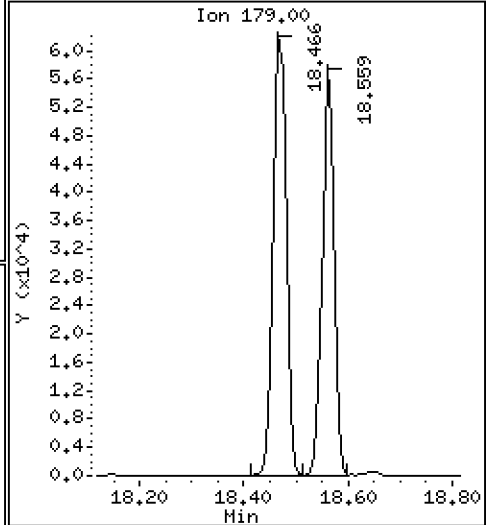
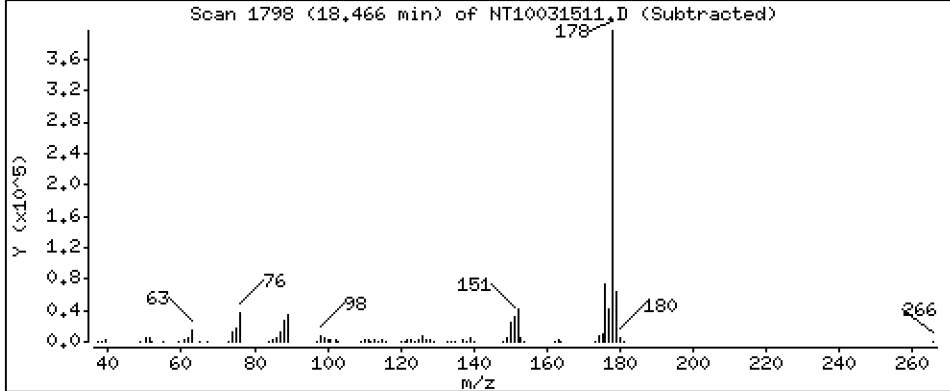
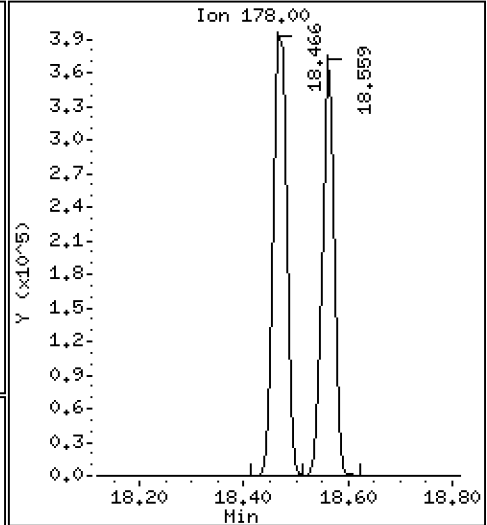
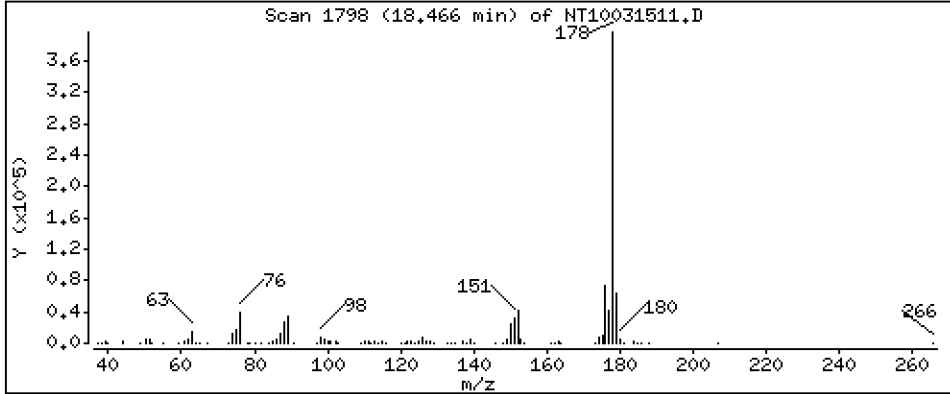
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 4,602 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

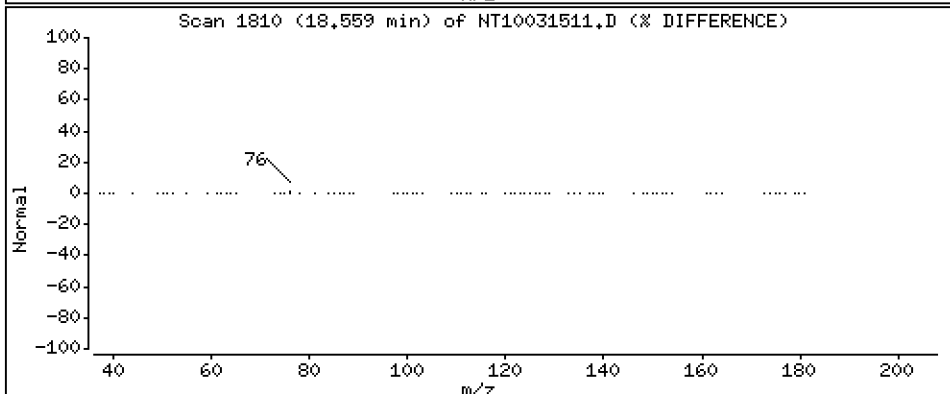
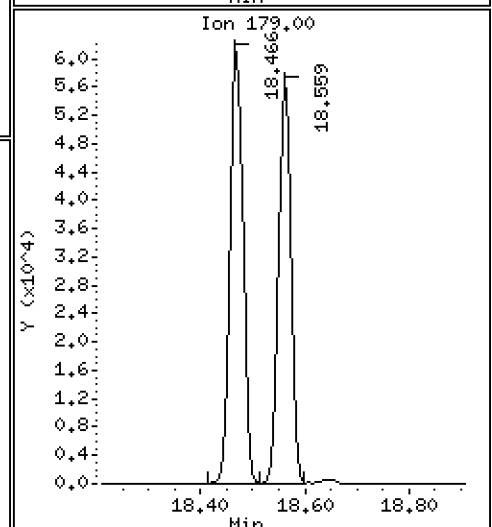
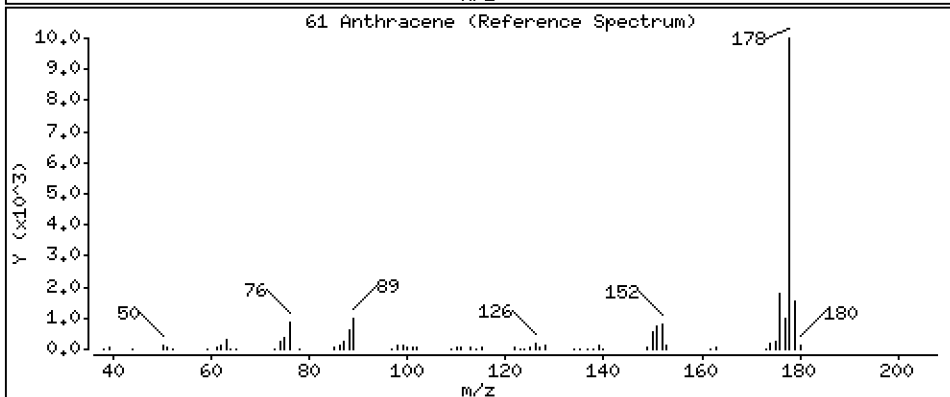
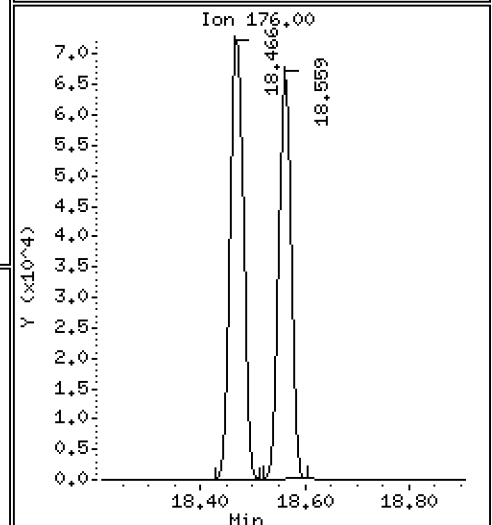
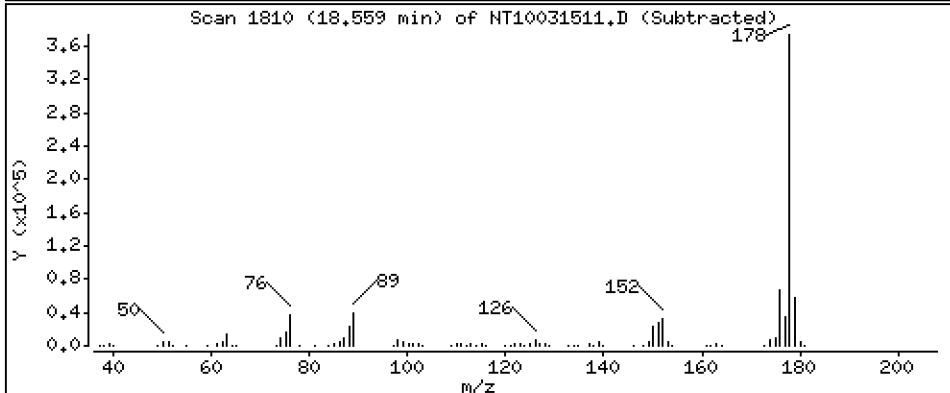
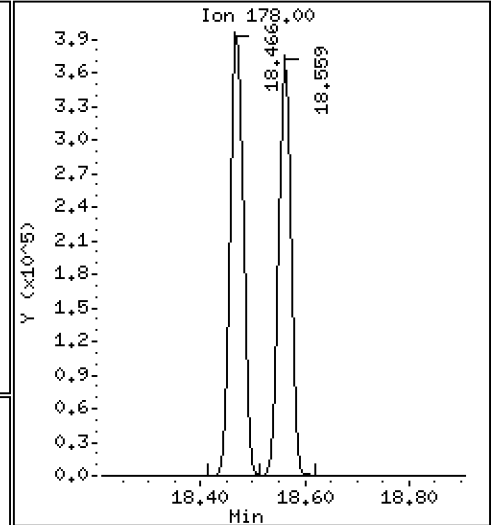
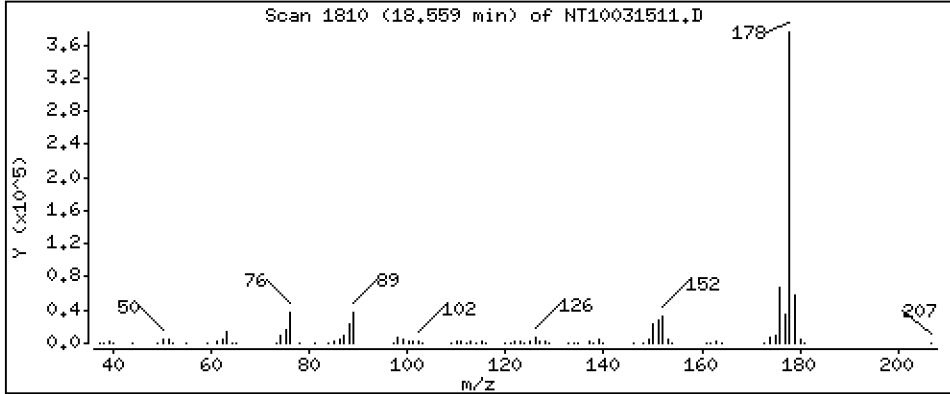
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 4,167 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

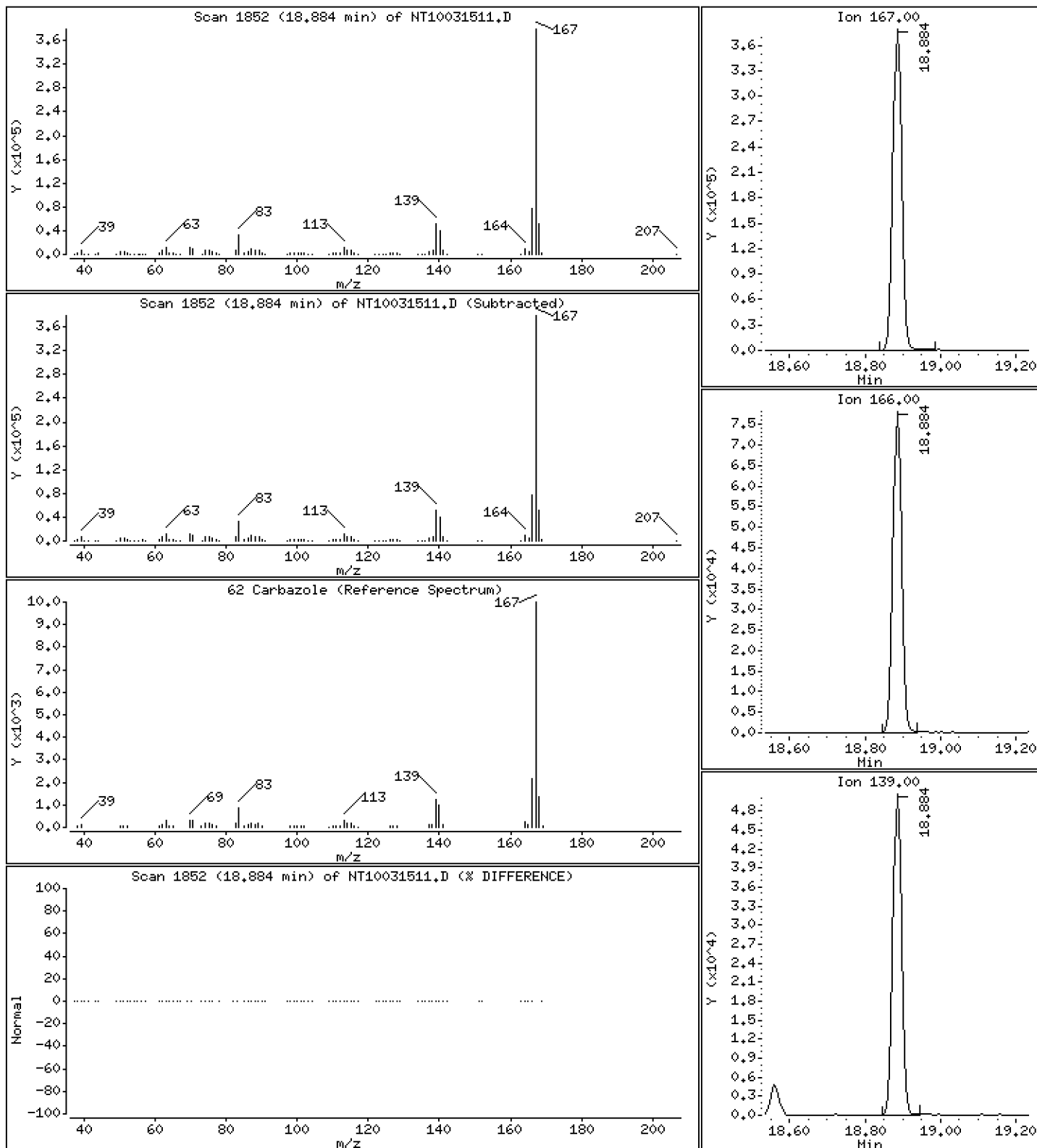
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 4,730 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

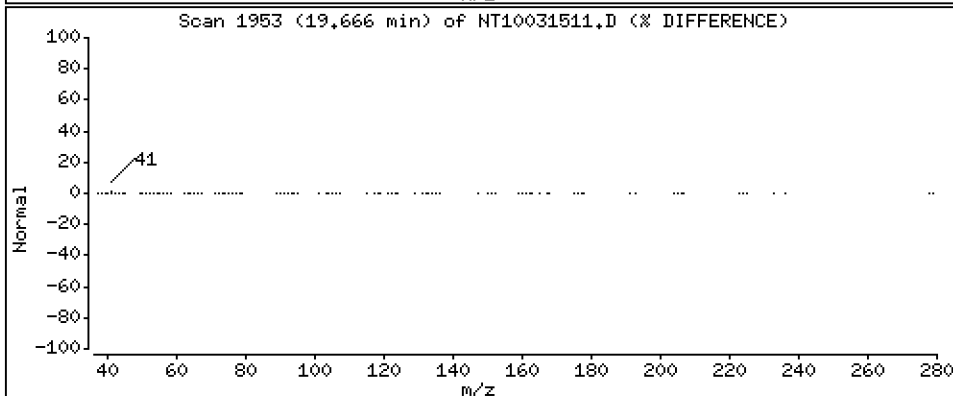
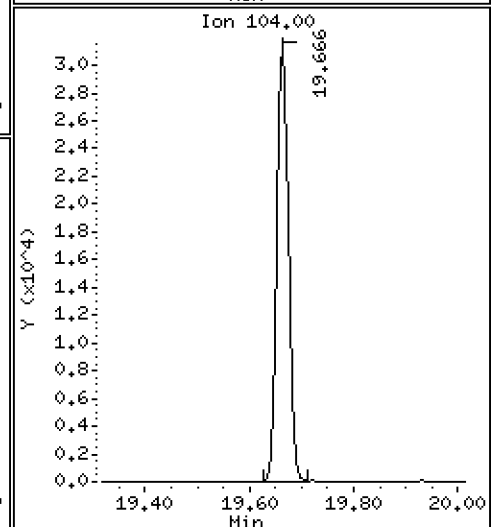
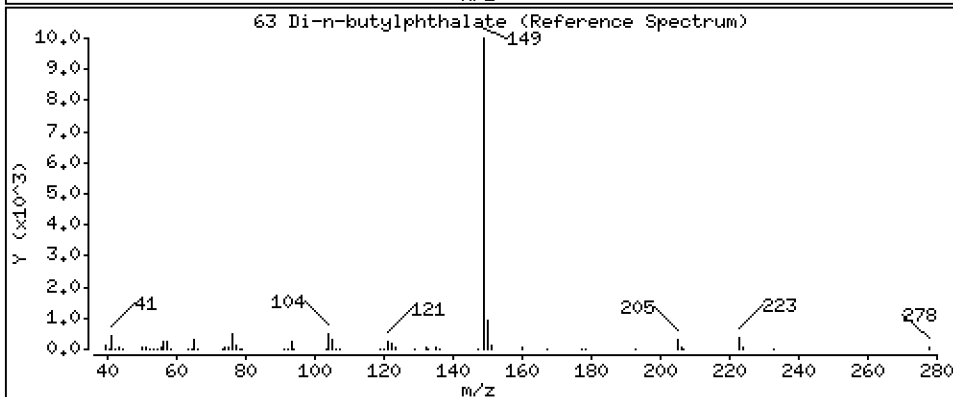
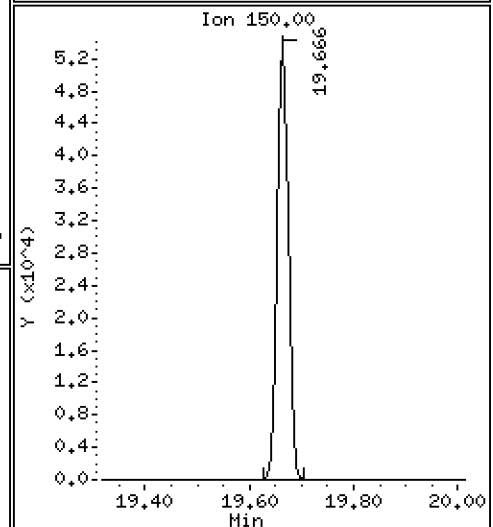
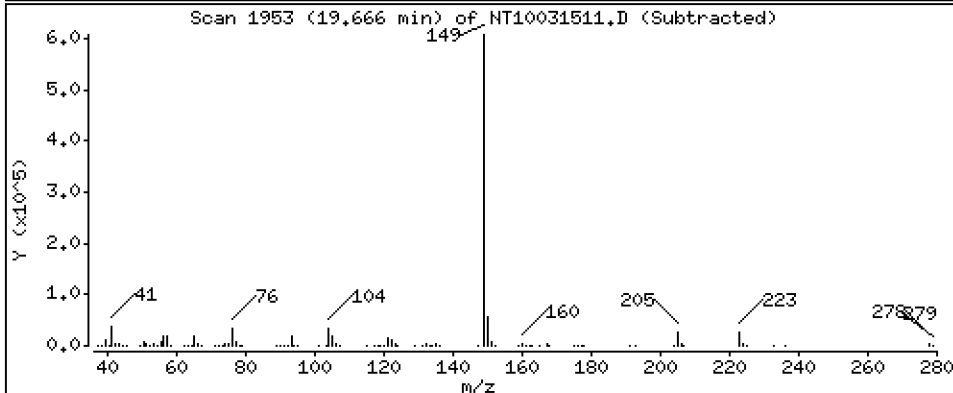
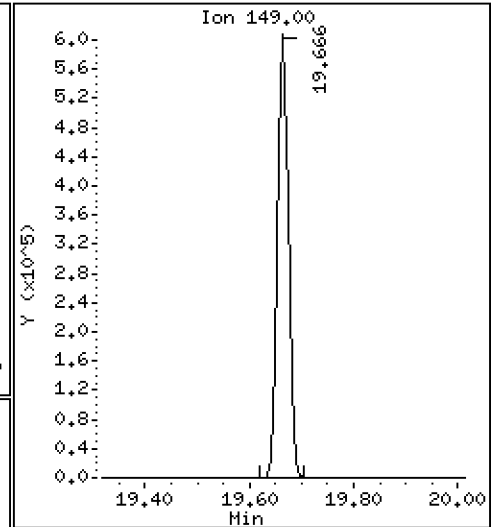
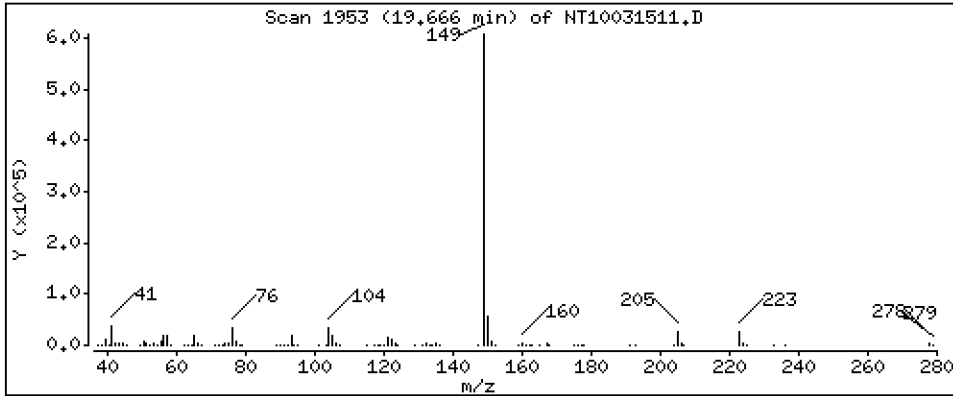
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 4,967 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

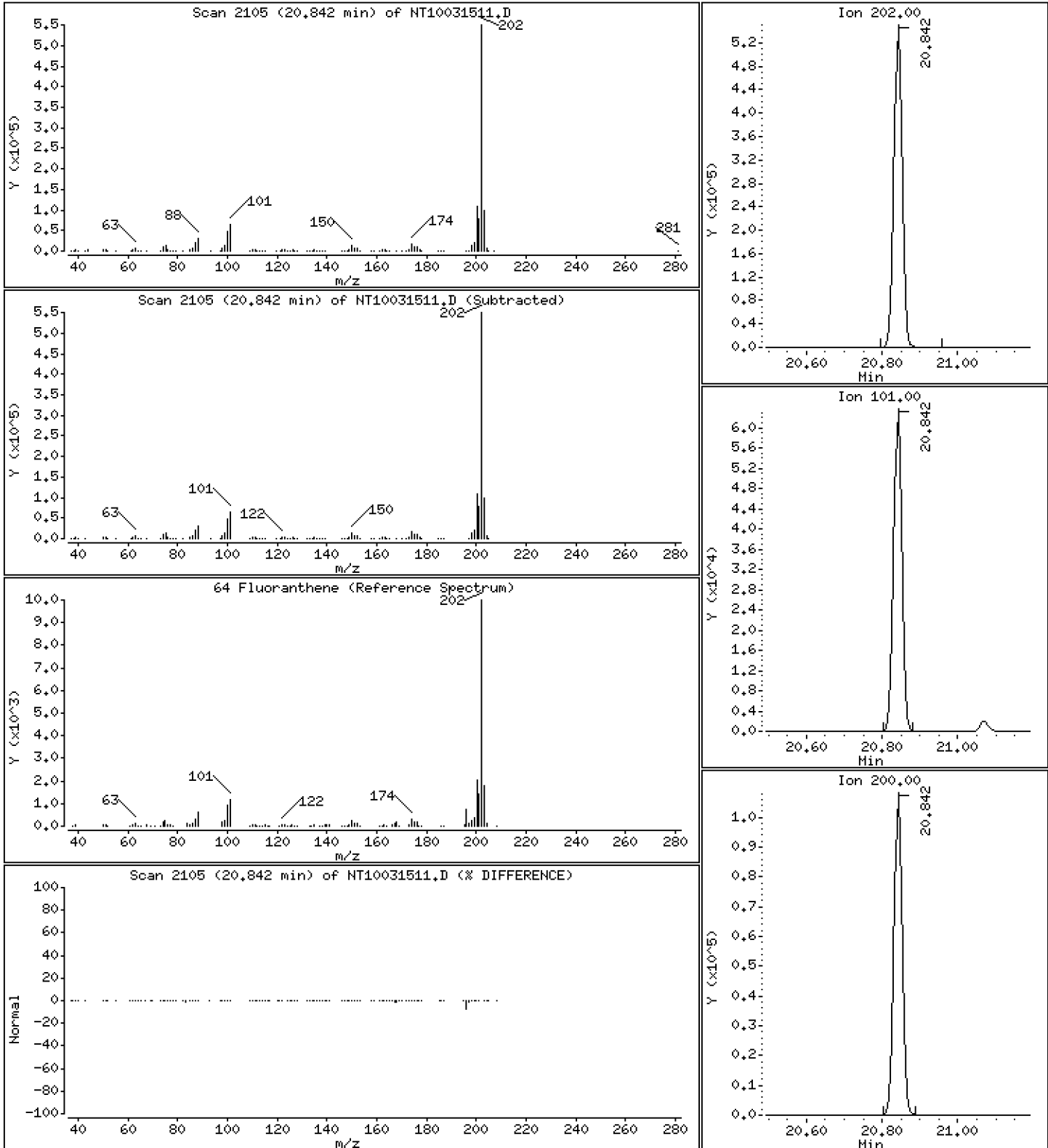
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 4,472 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

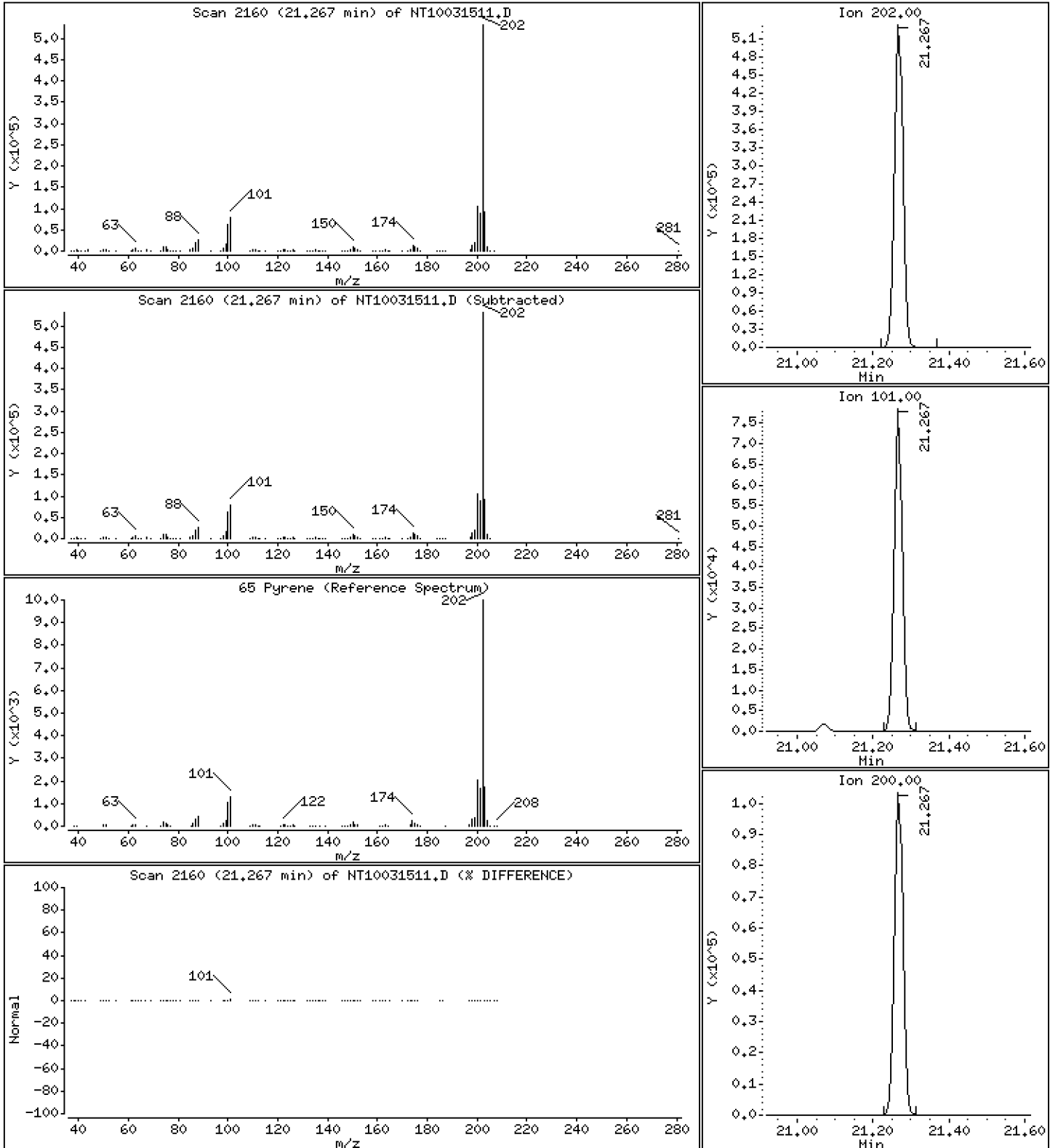
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 4,339 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

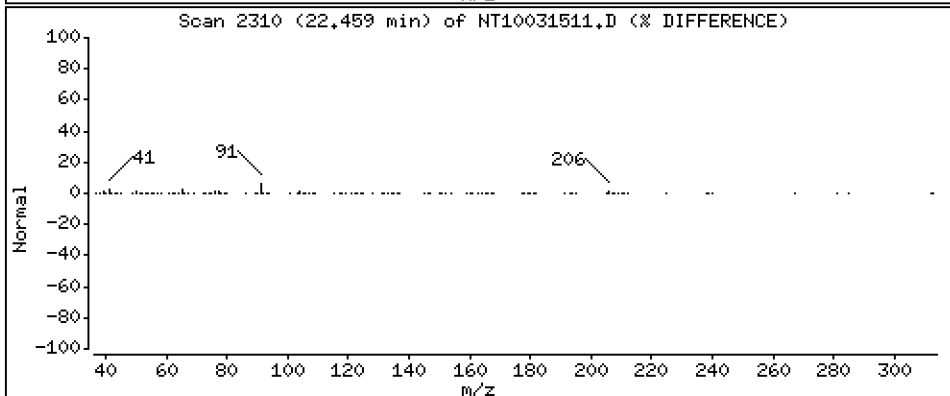
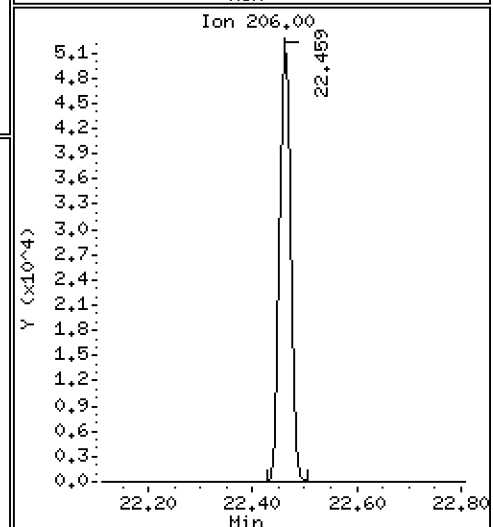
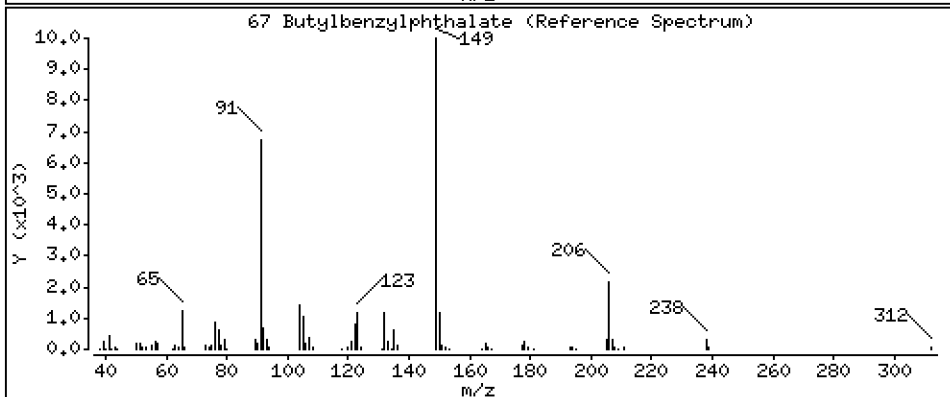
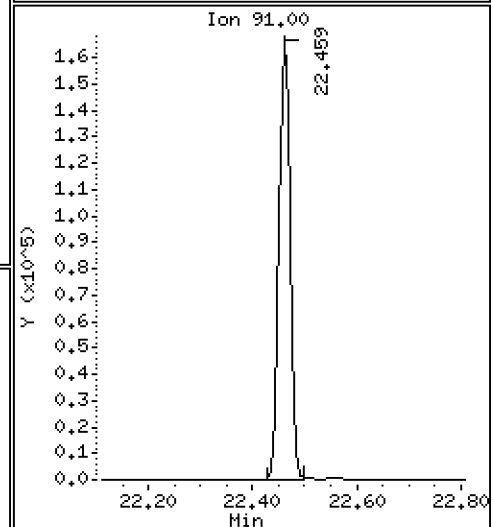
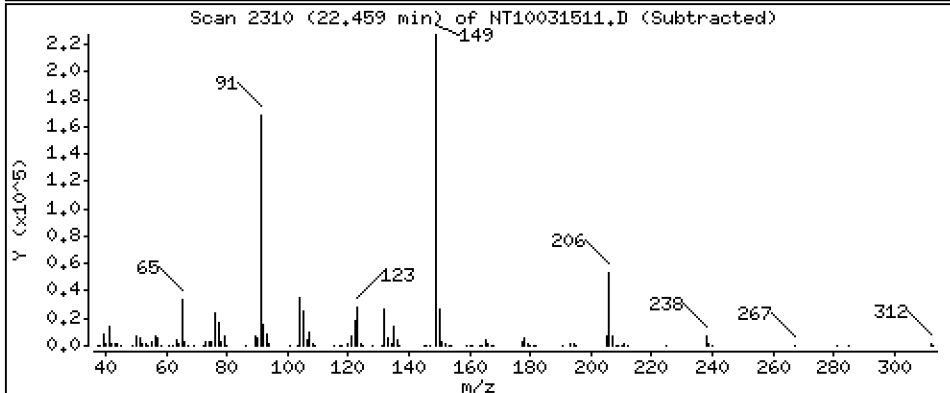
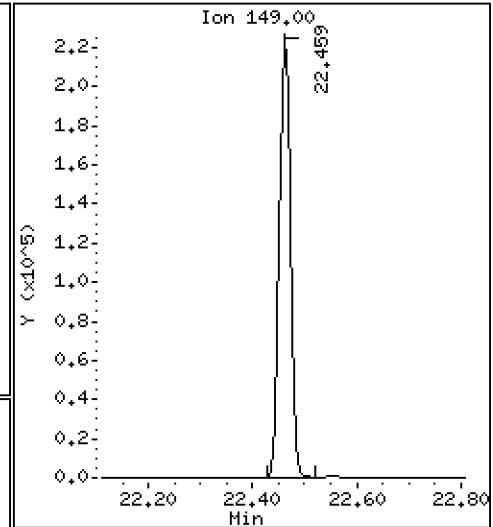
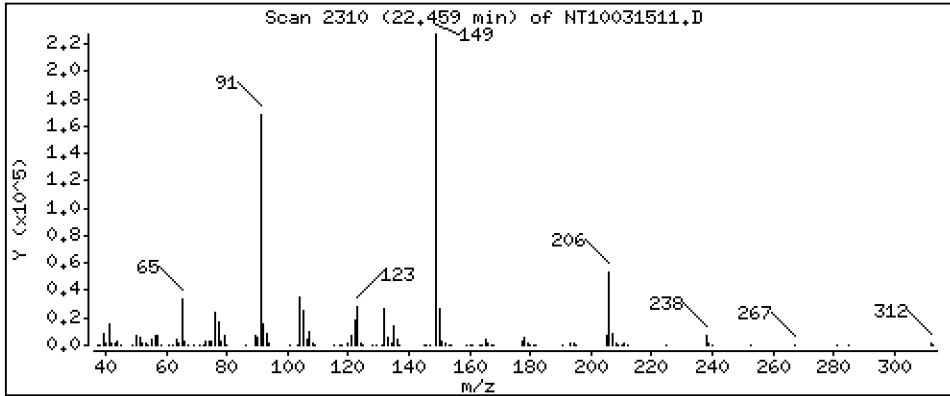
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 4,834 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

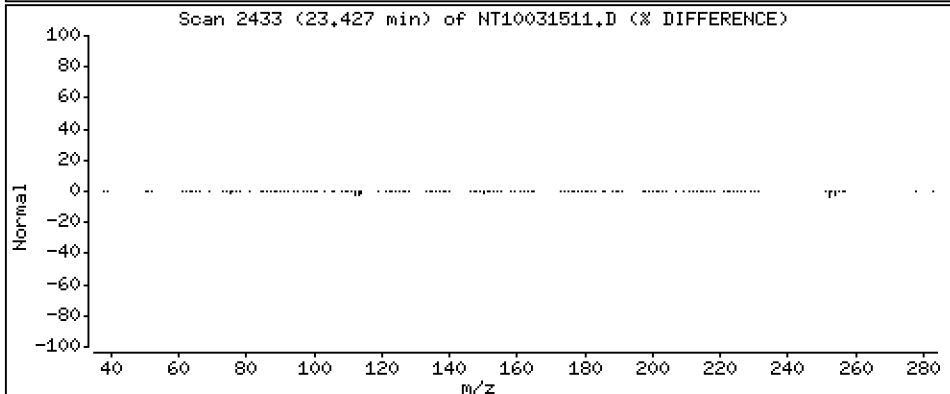
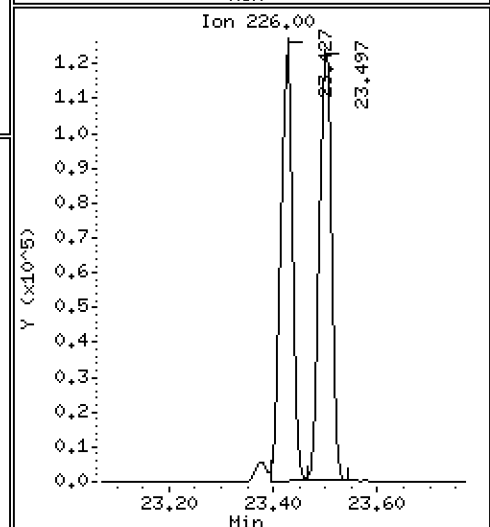
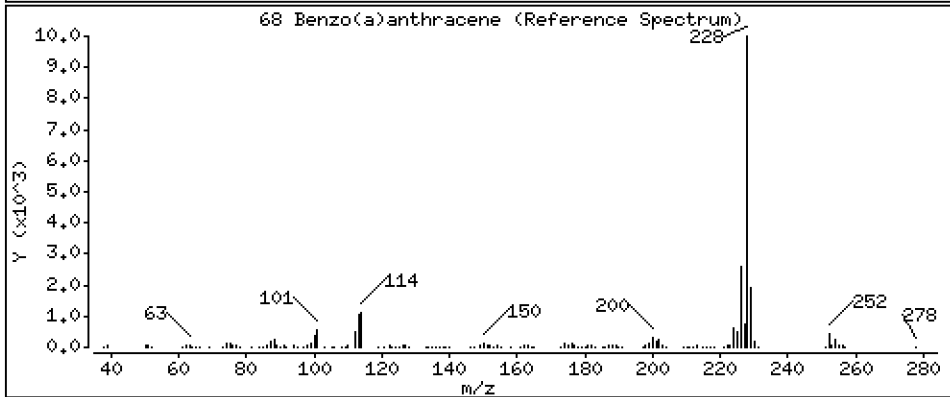
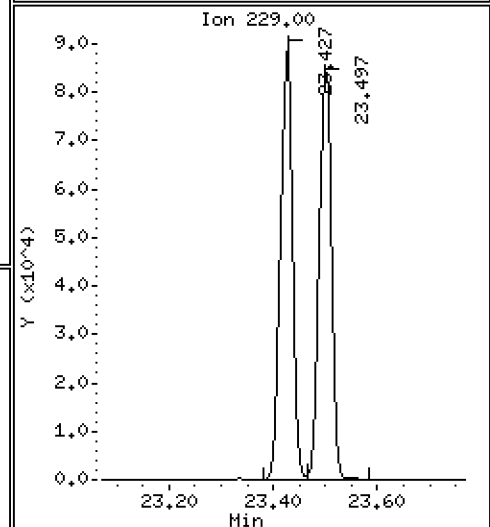
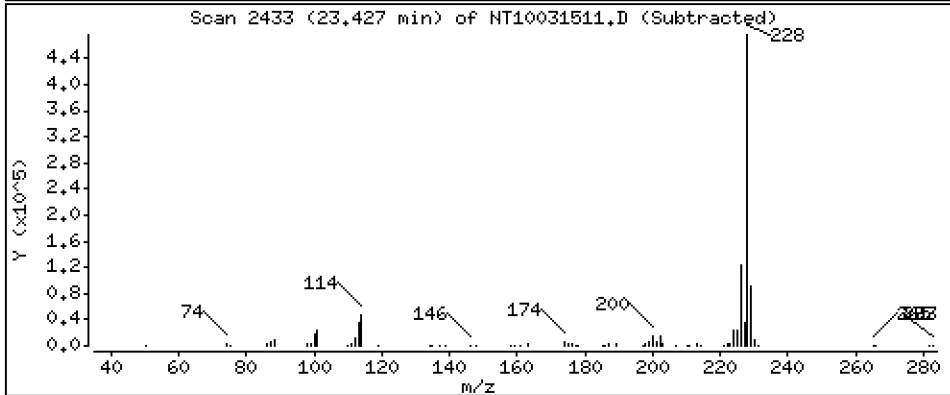
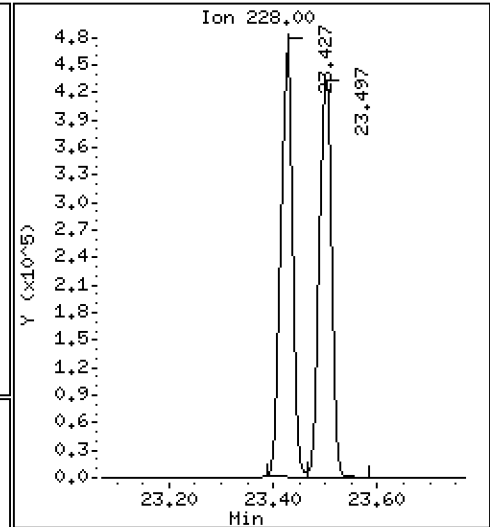
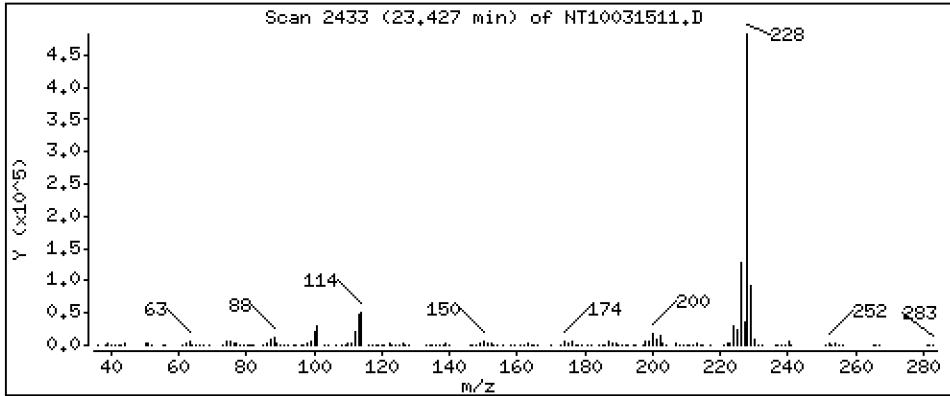
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 4,647 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

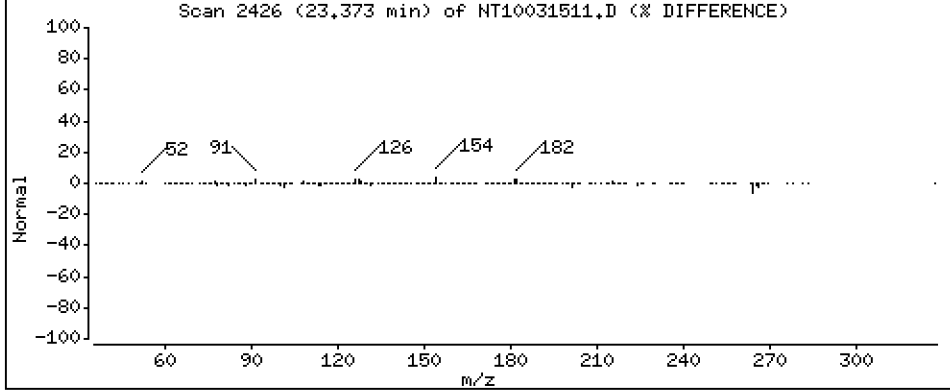
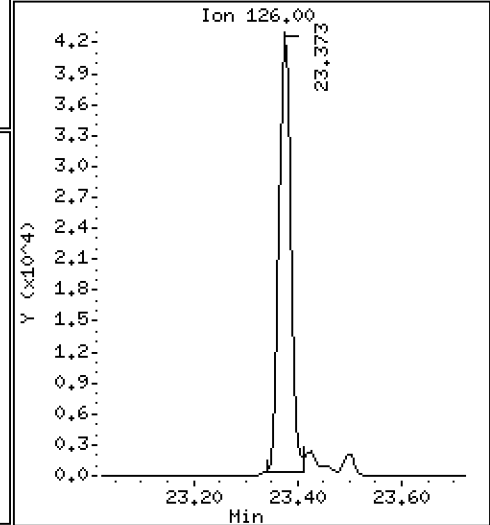
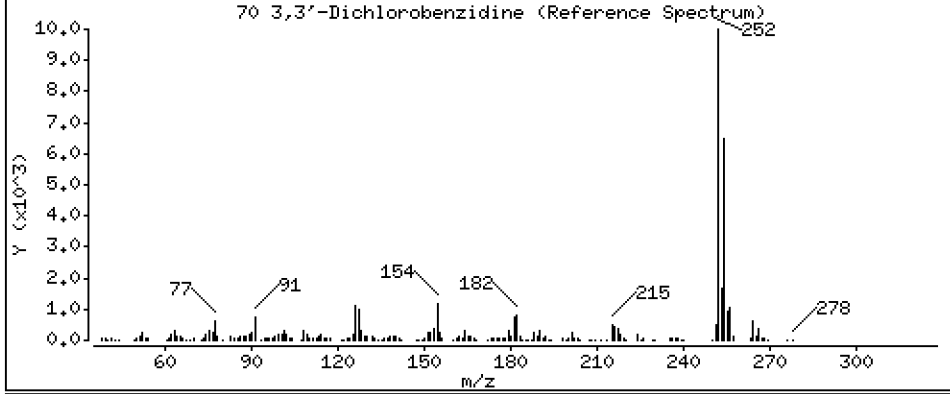
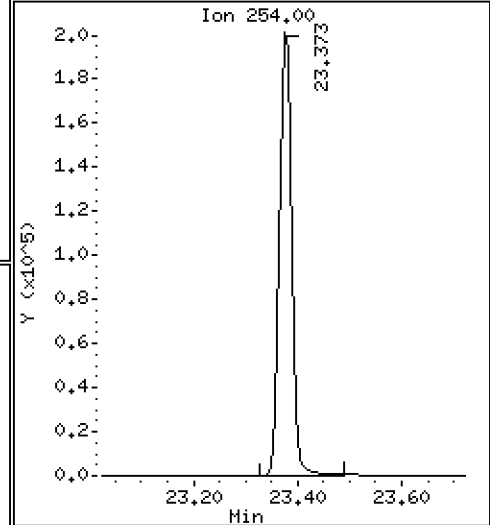
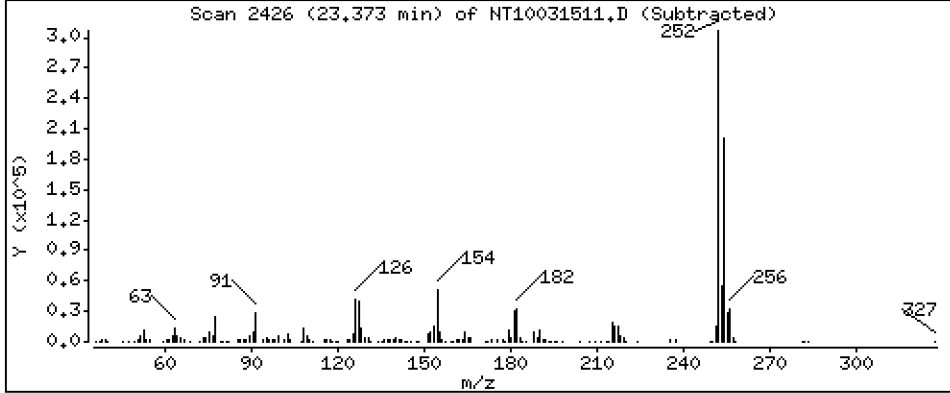
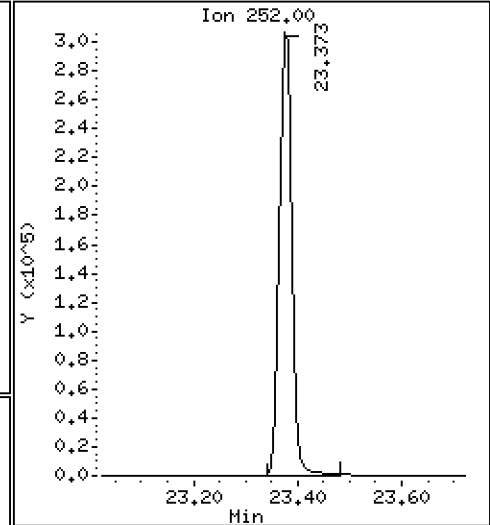
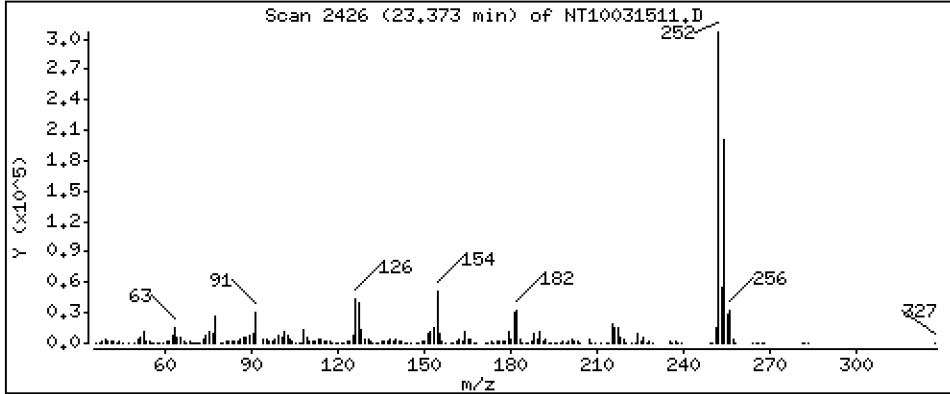
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

70 3,3'-Dichlorobenzidine

Concentration: 9,817 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

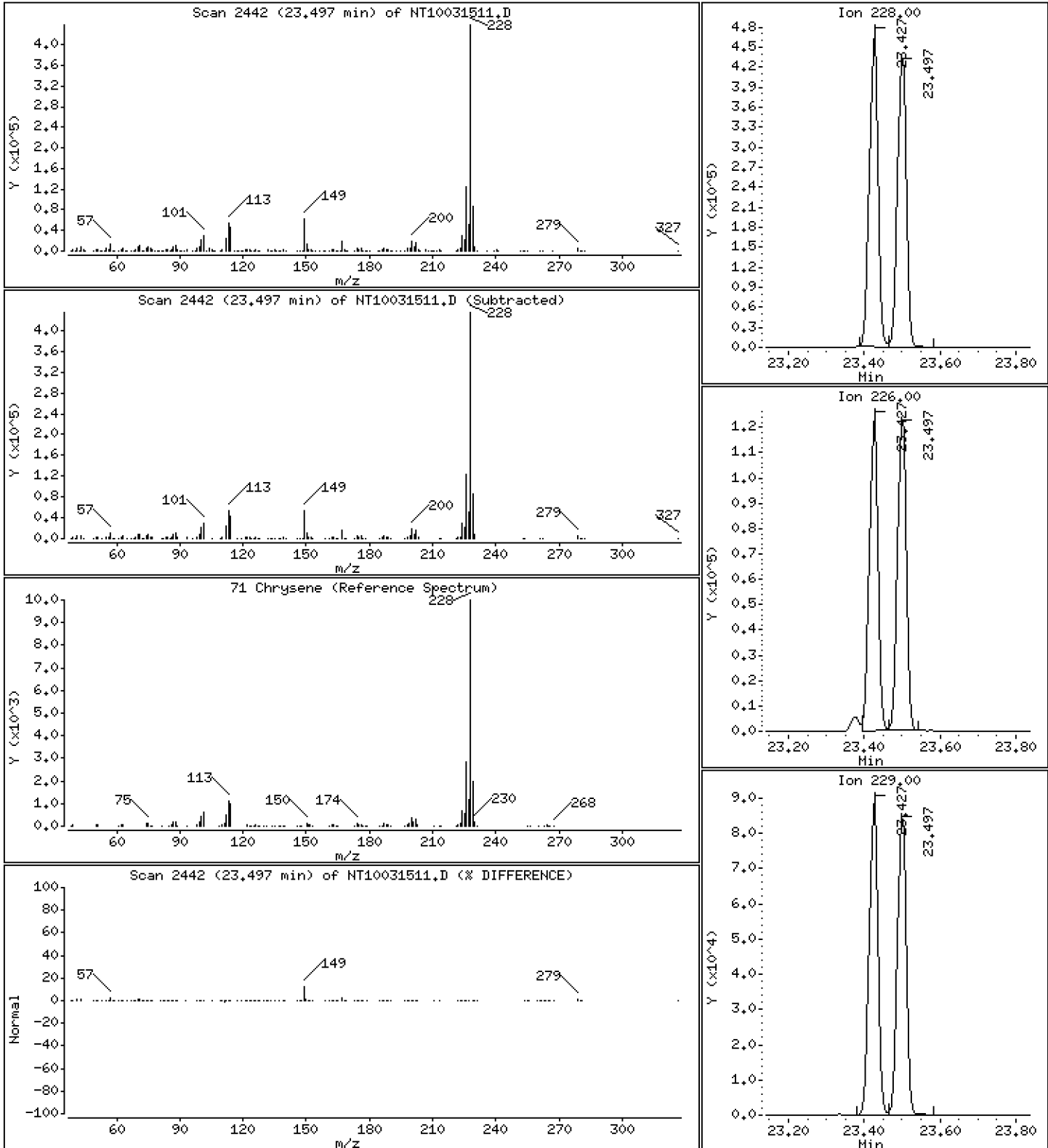
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 4,510 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

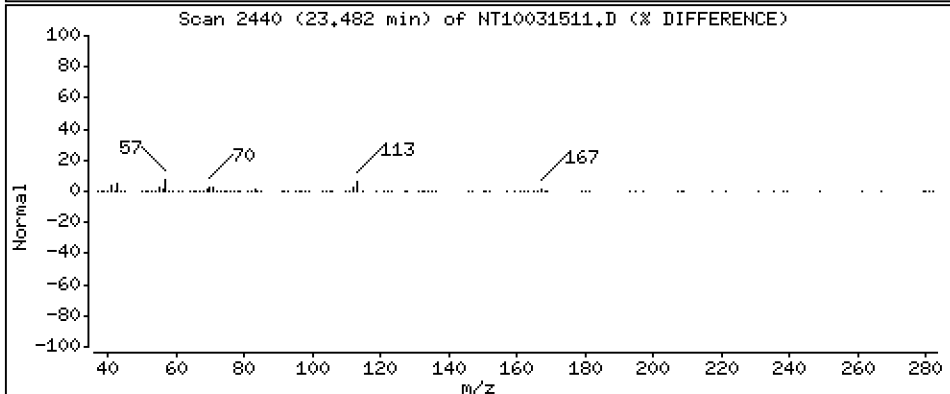
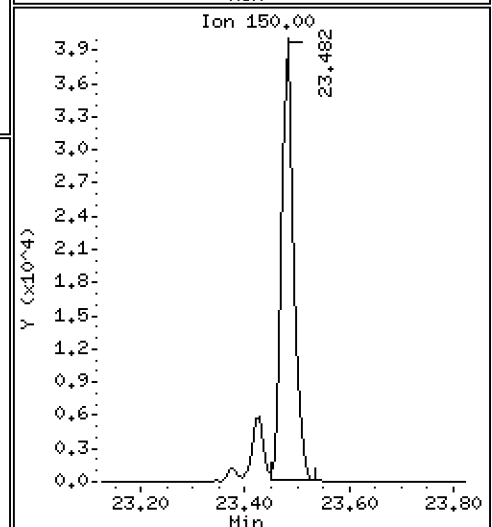
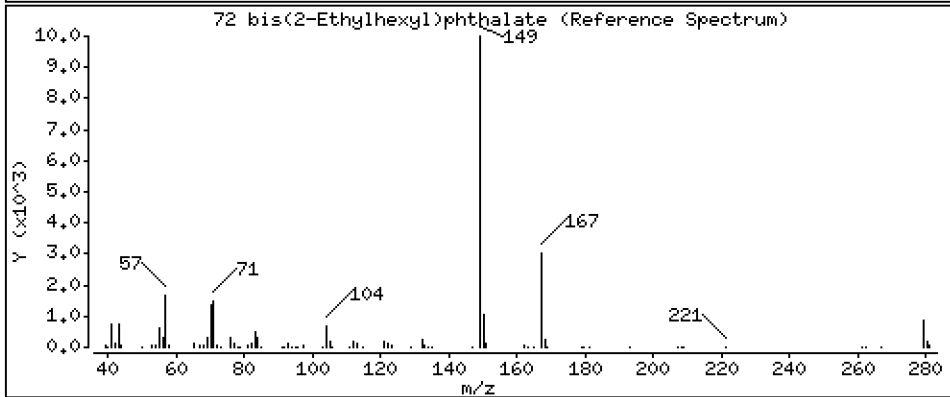
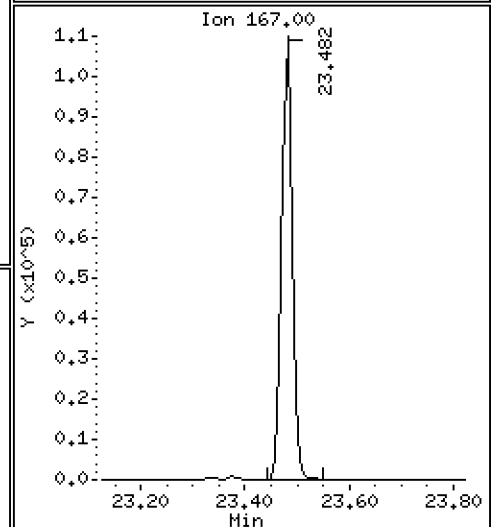
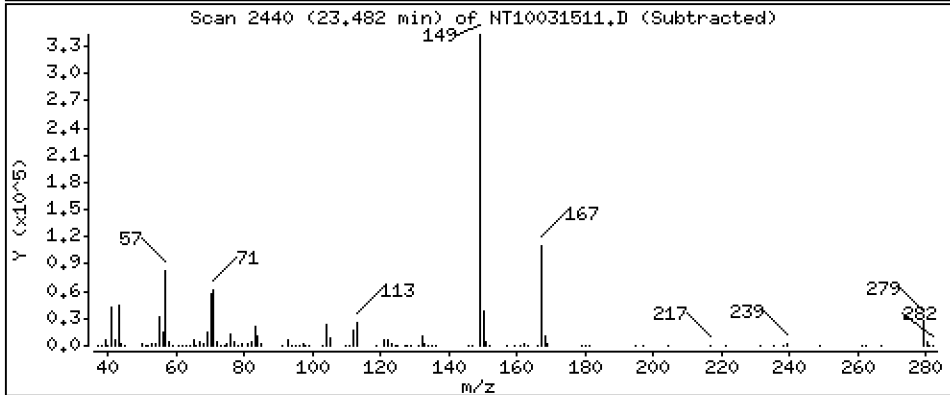
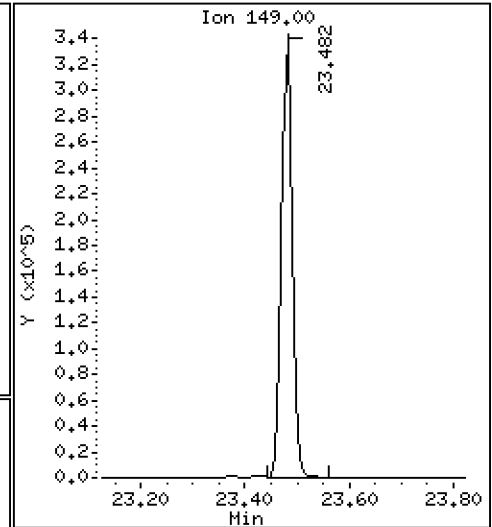
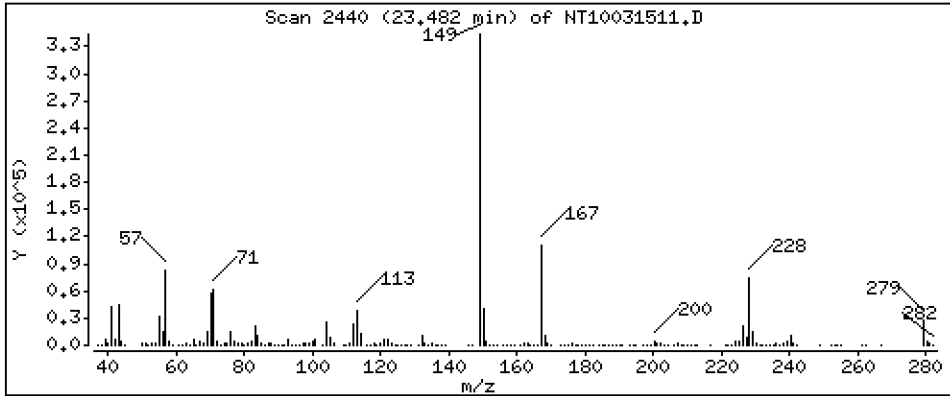
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 4,680 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

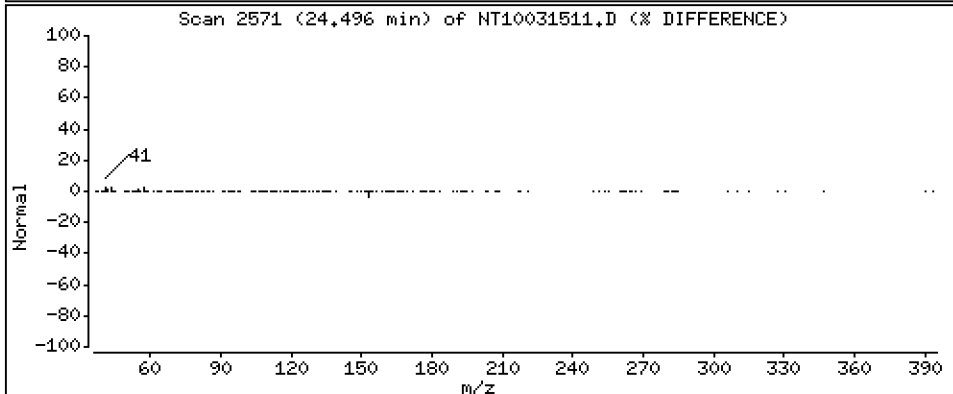
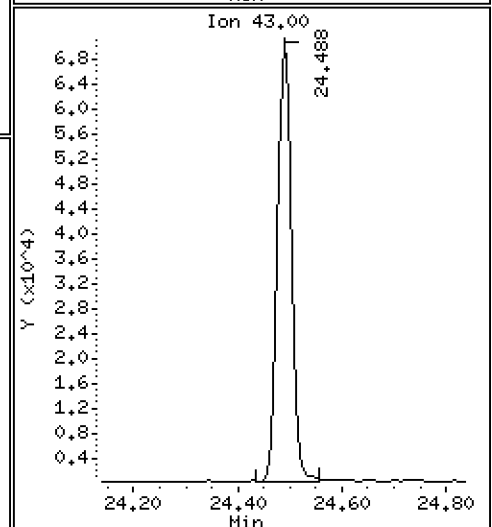
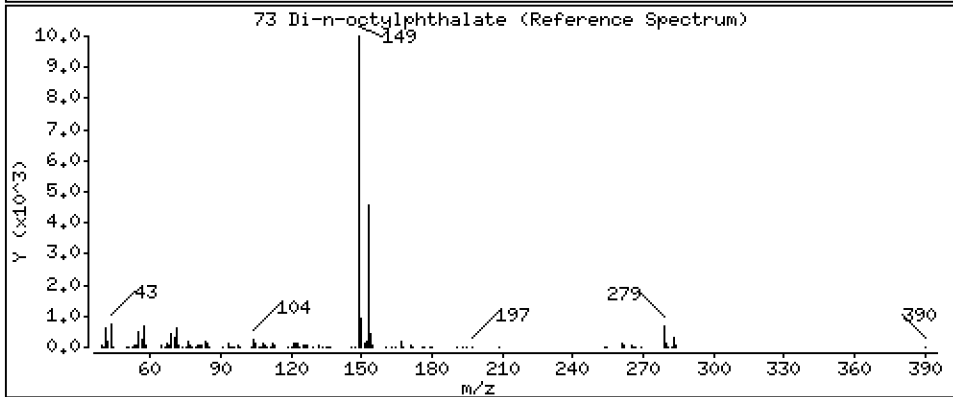
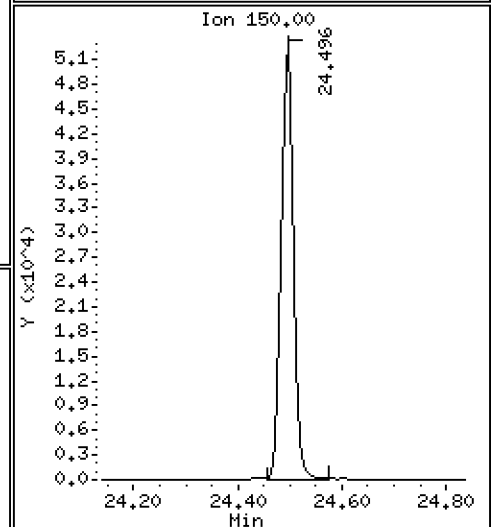
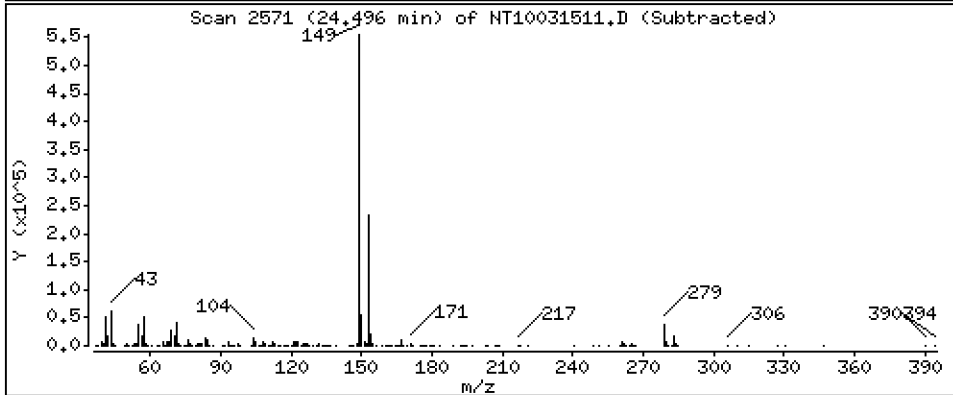
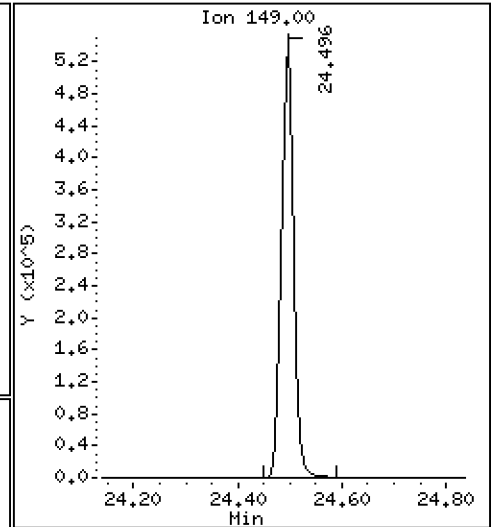
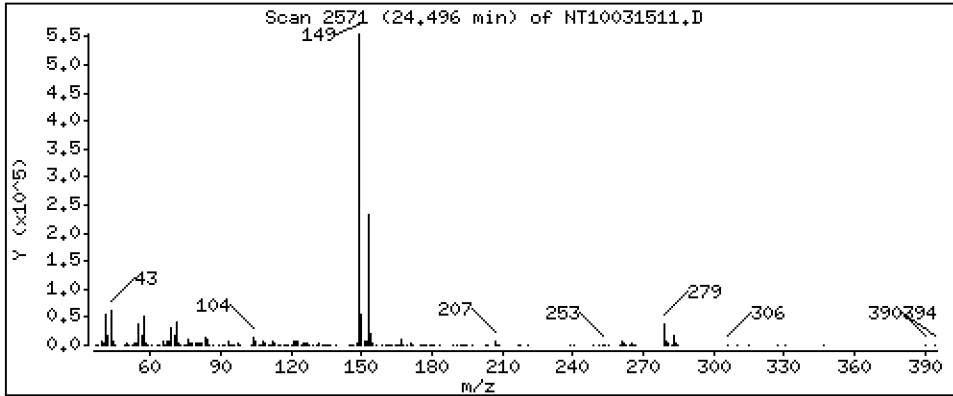
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 4,947 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

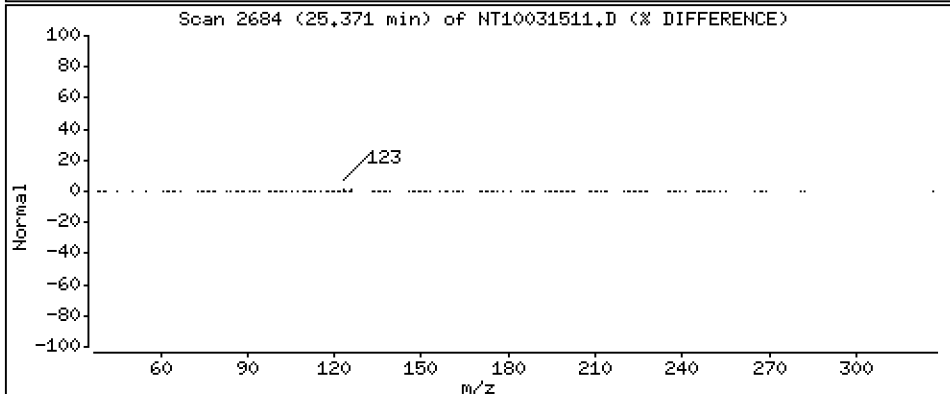
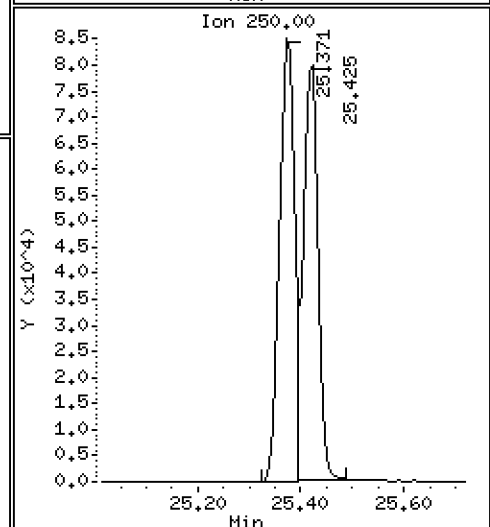
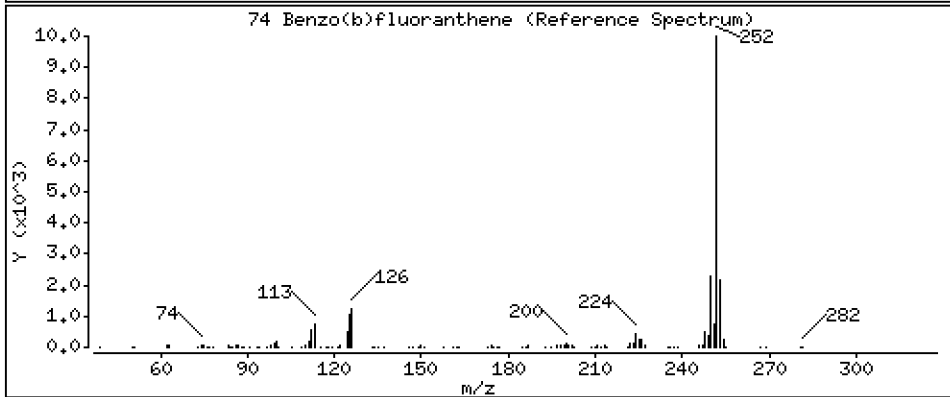
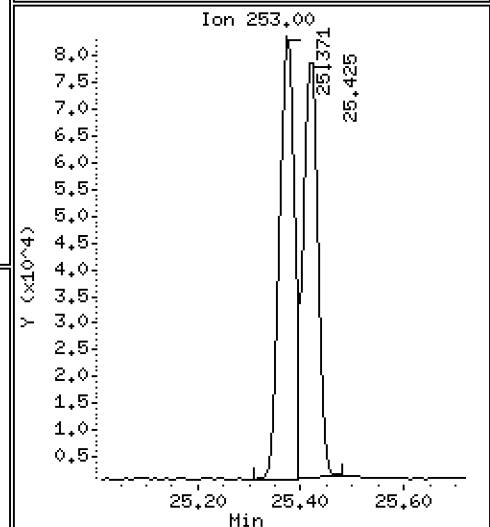
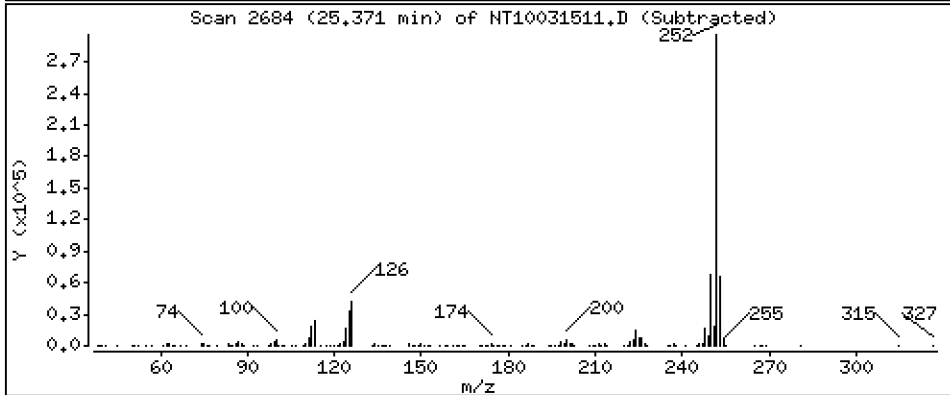
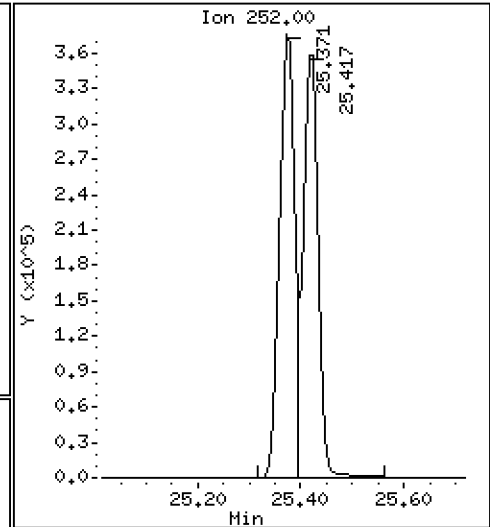
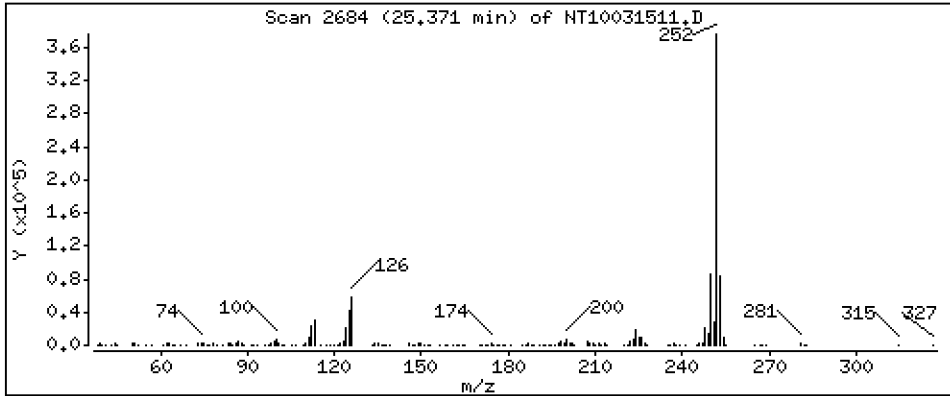
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 4,602 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

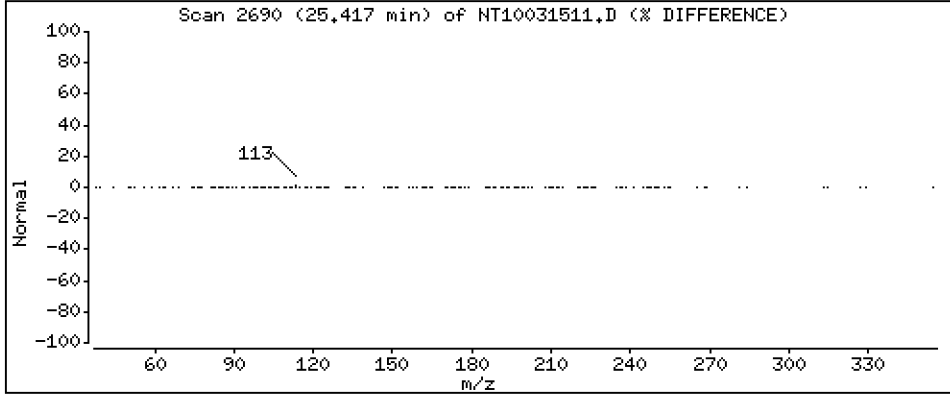
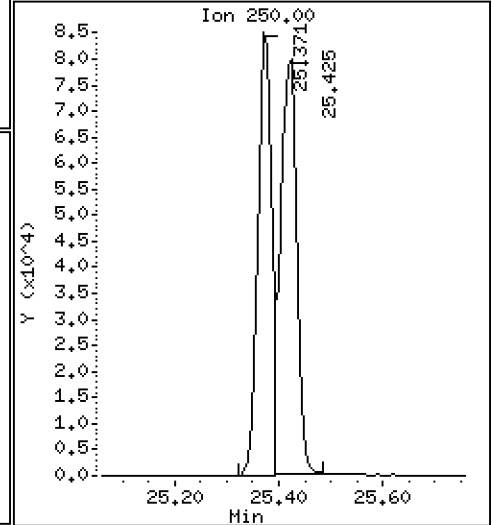
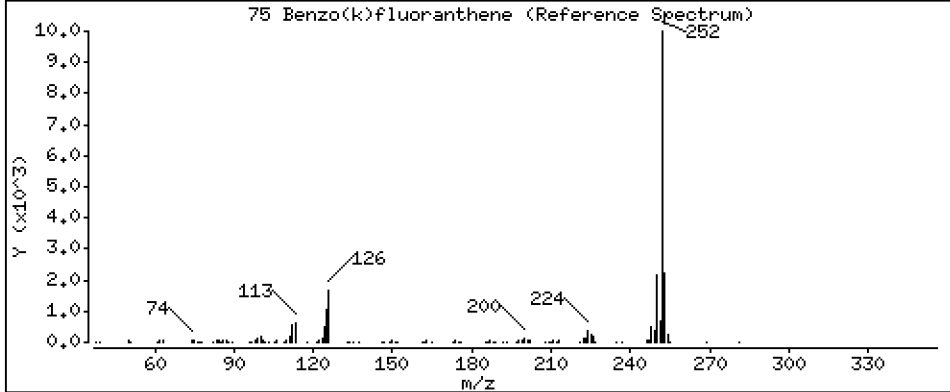
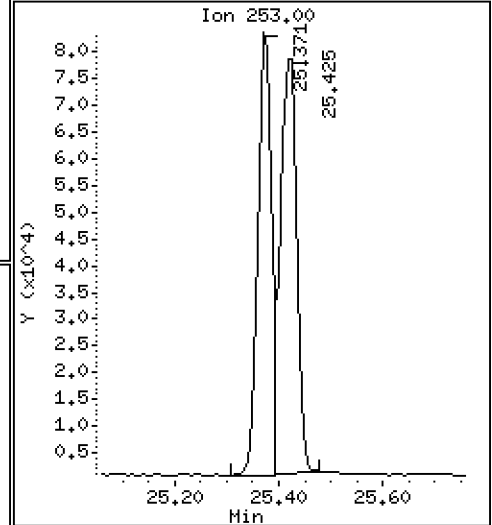
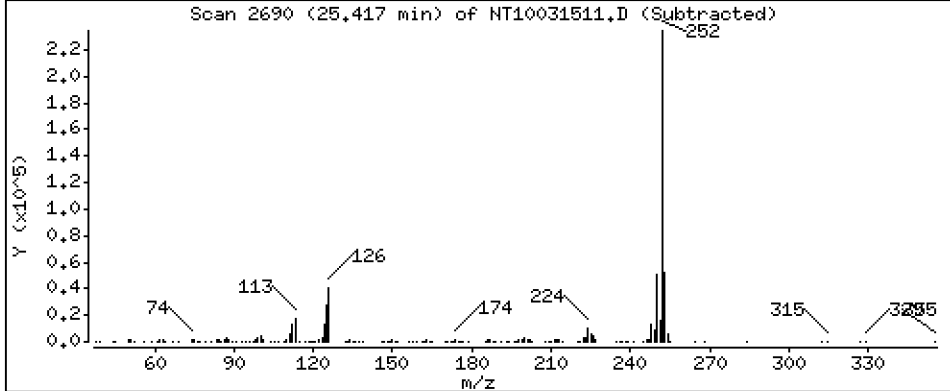
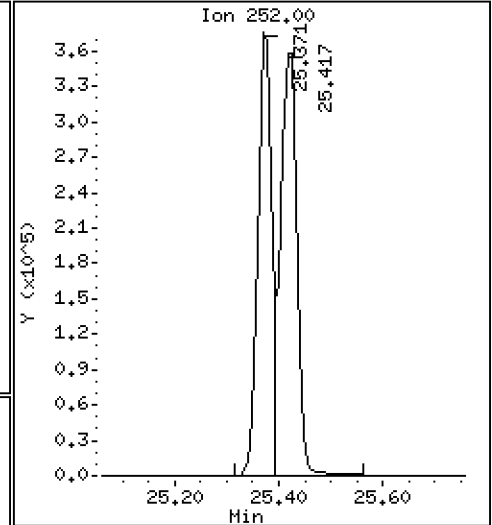
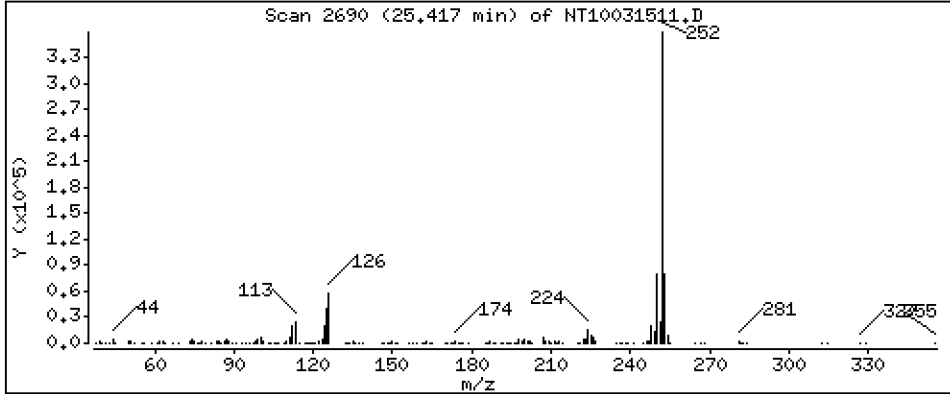
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 4,898 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

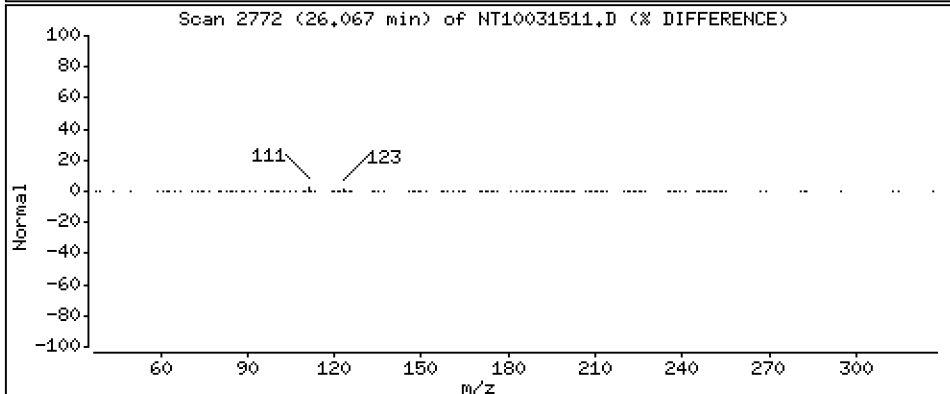
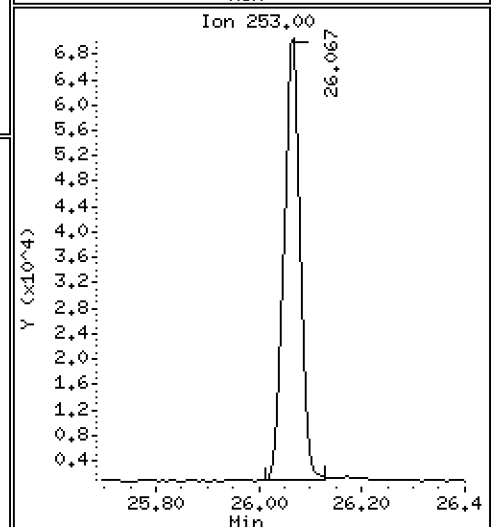
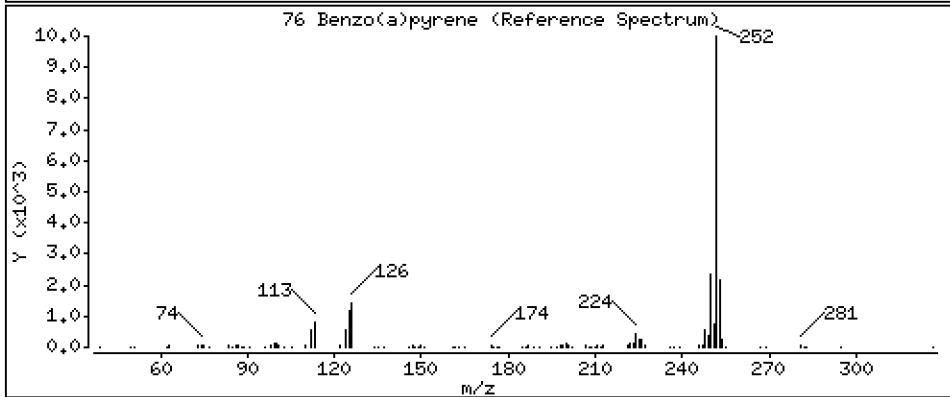
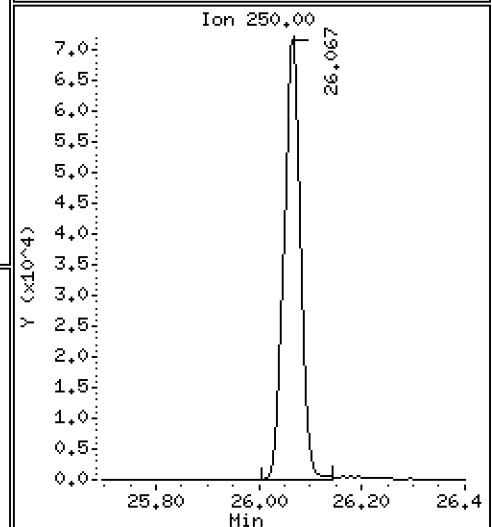
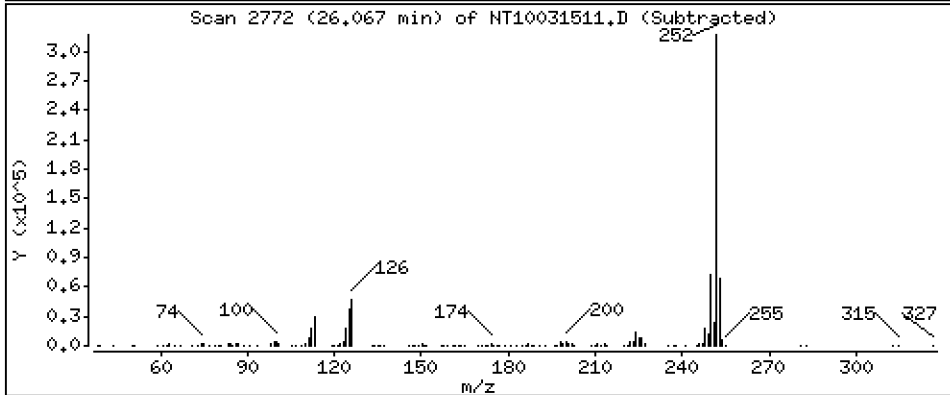
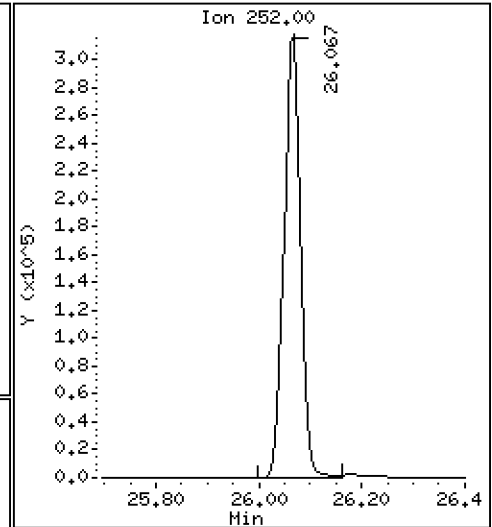
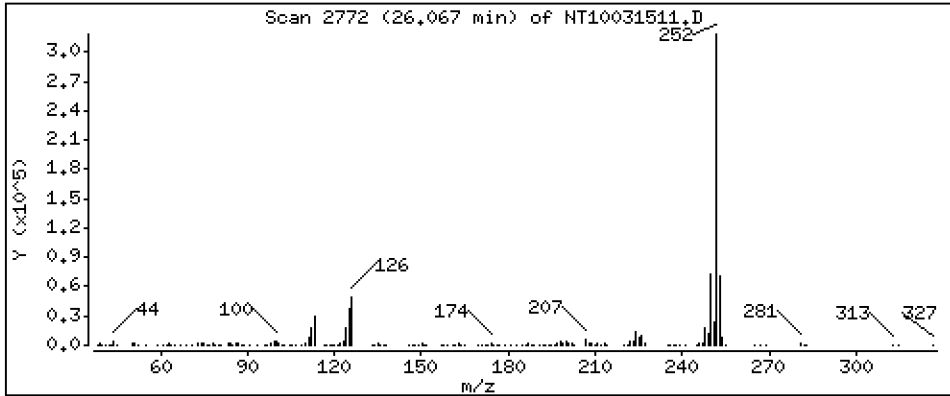
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 4,873 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

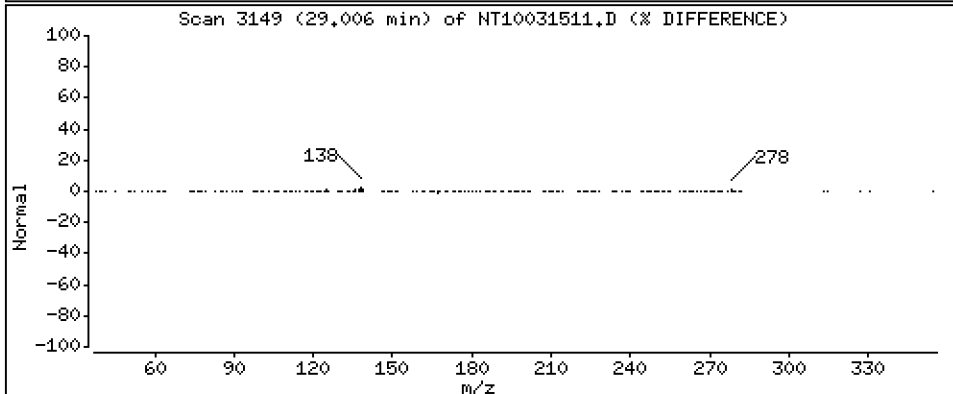
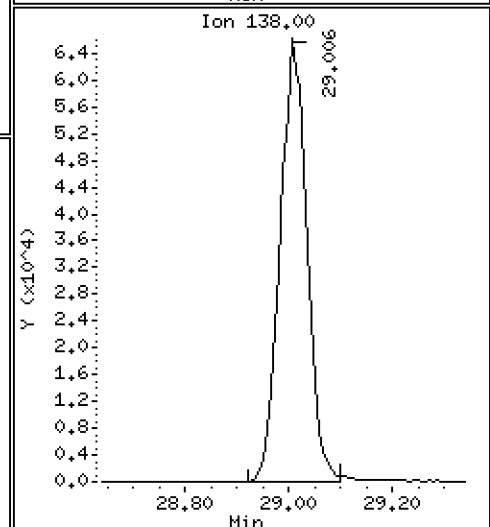
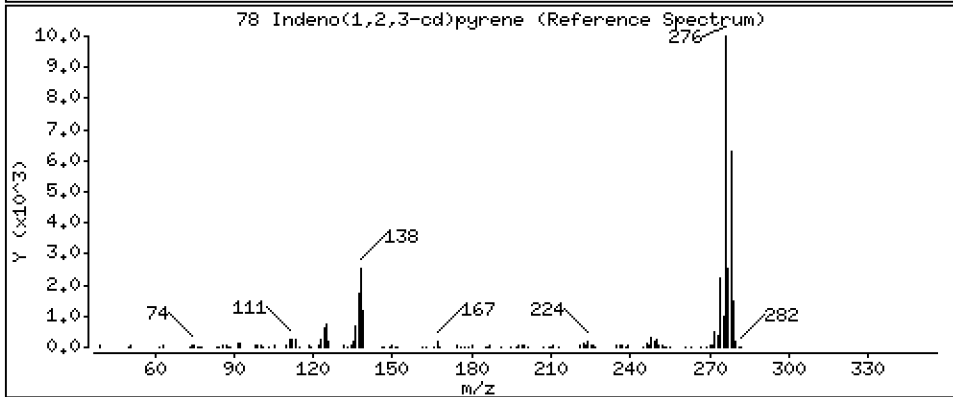
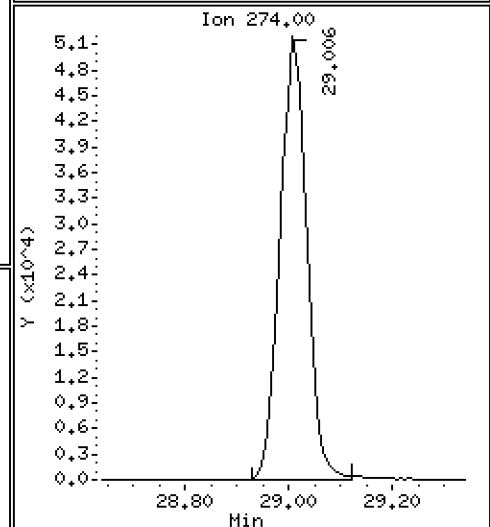
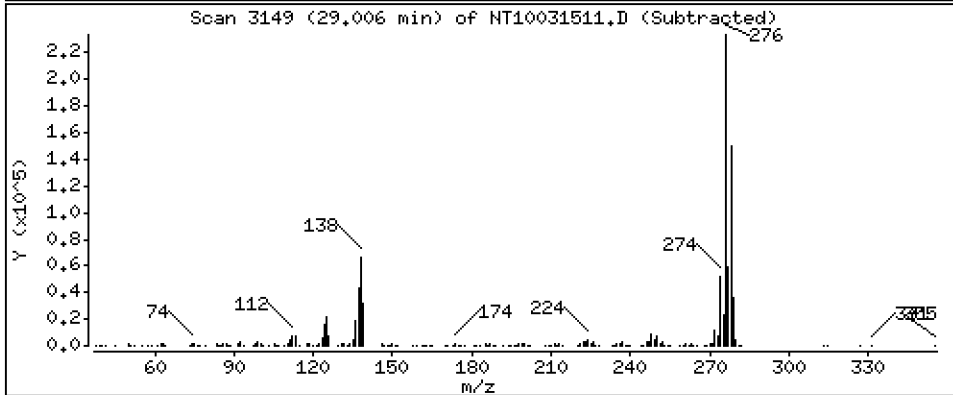
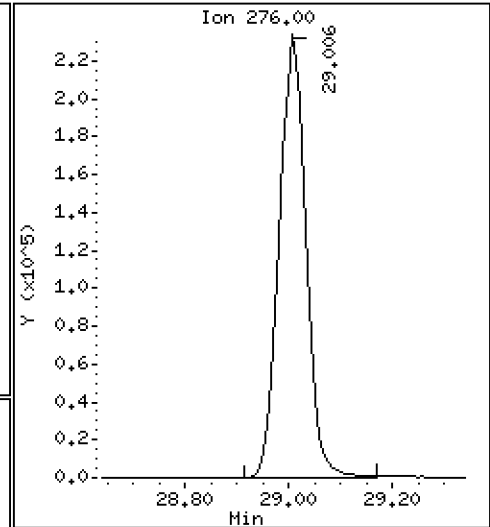
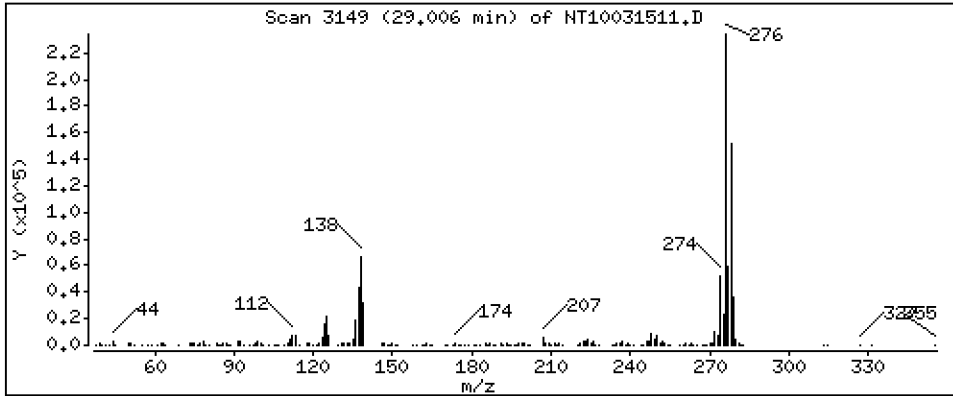
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 4,577 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

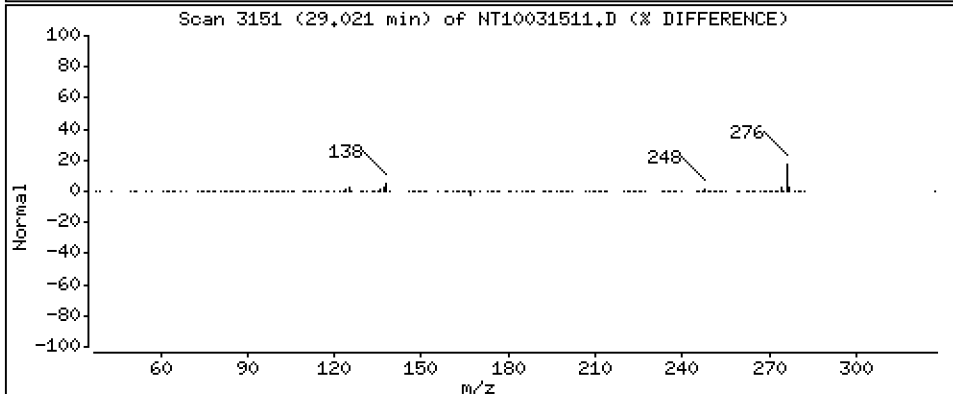
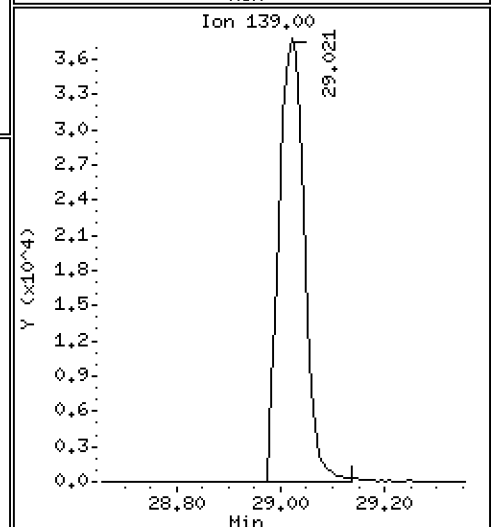
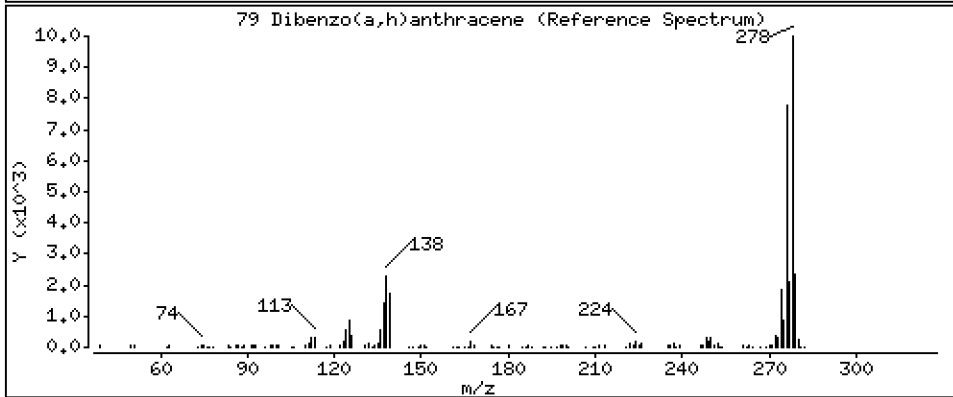
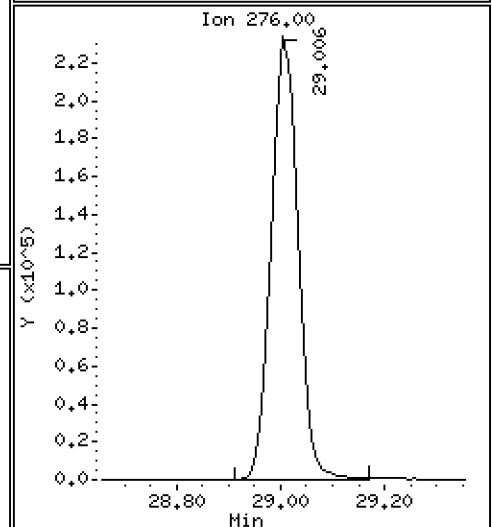
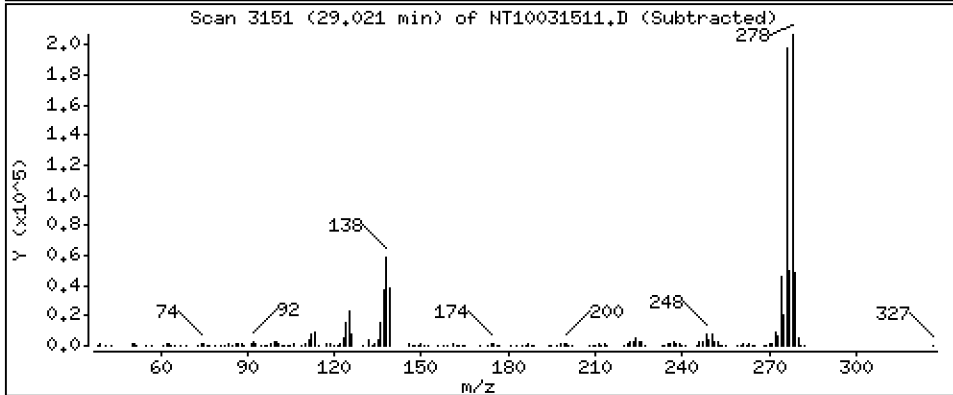
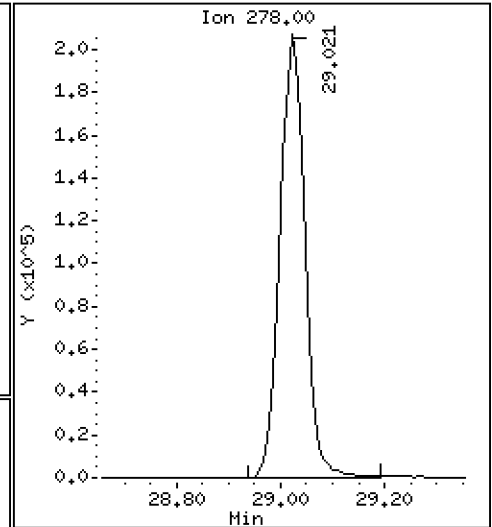
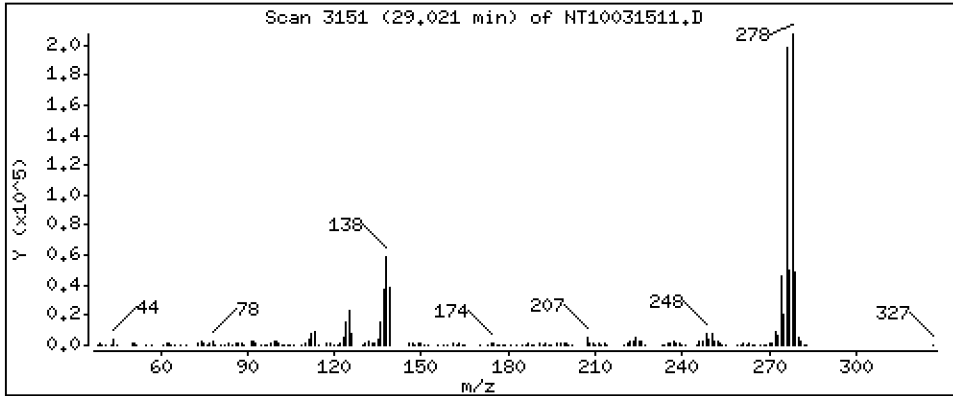
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 4,547 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

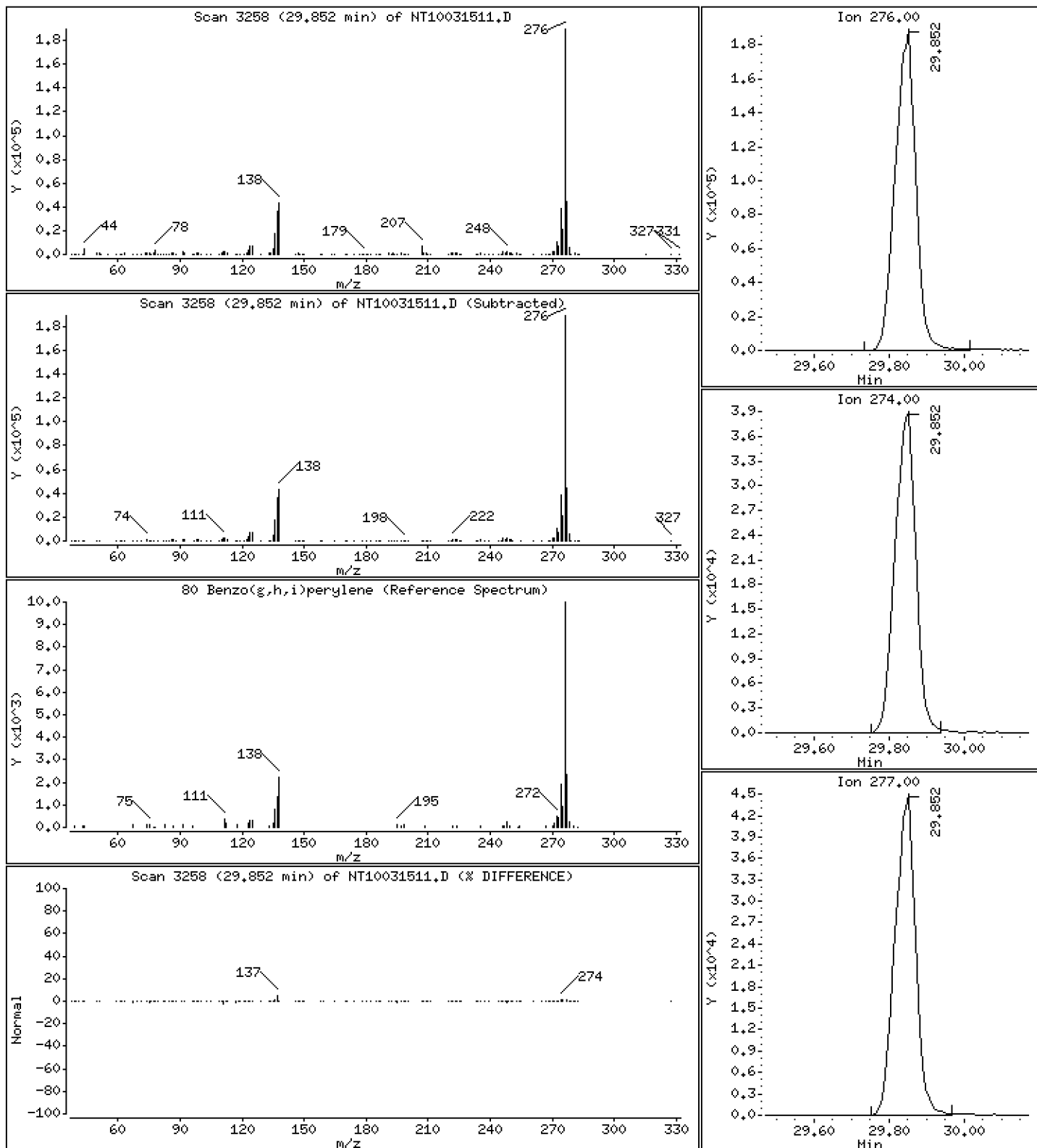
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 4,590 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

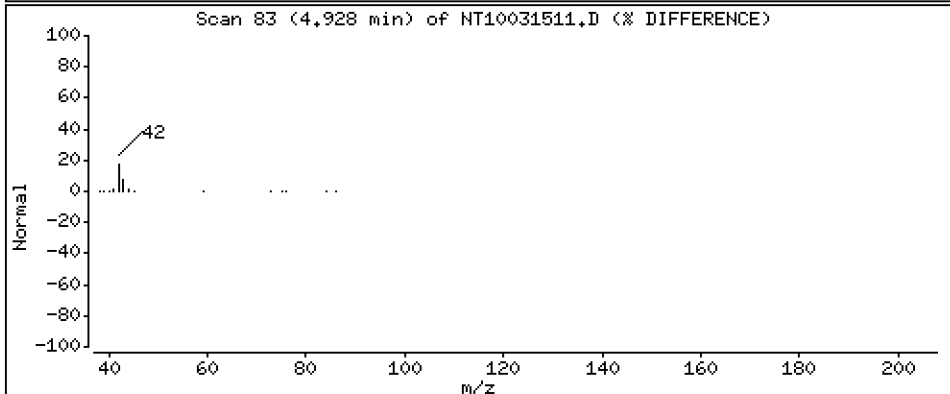
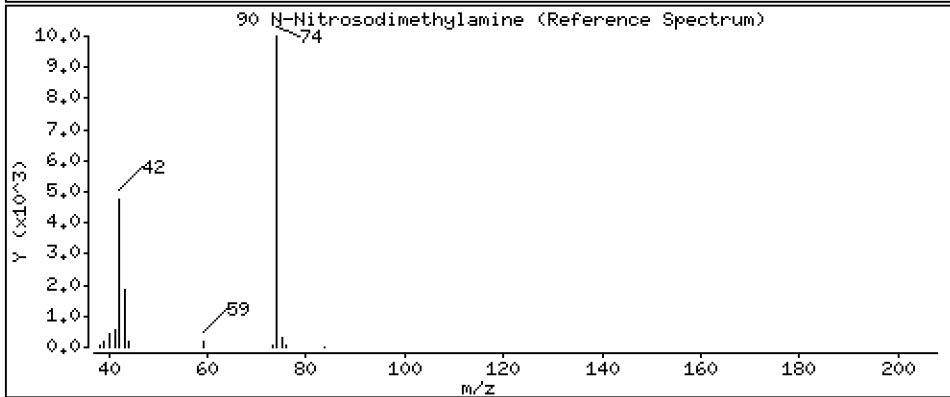
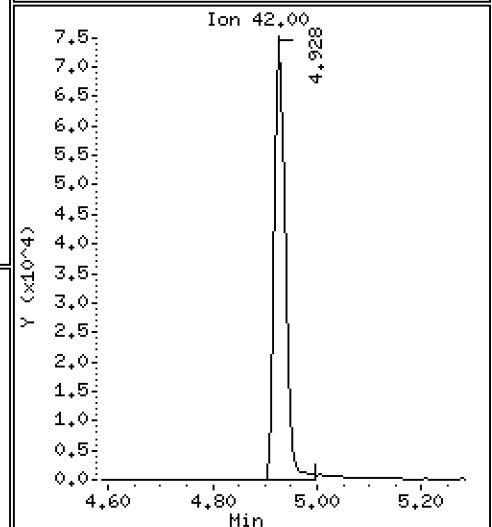
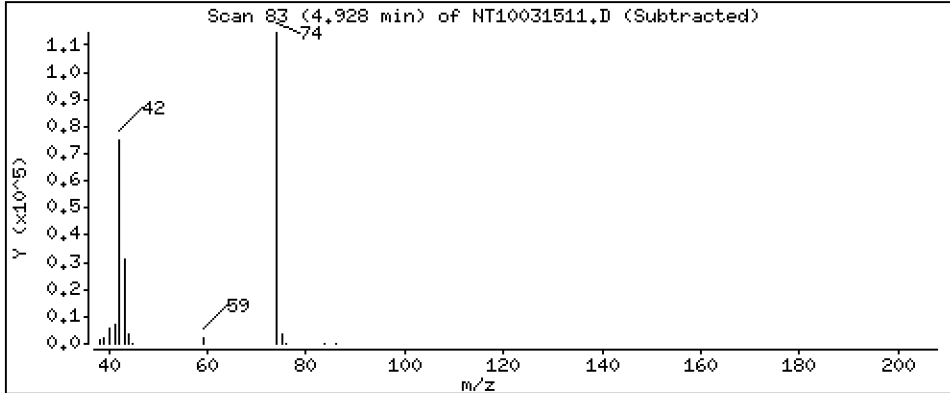
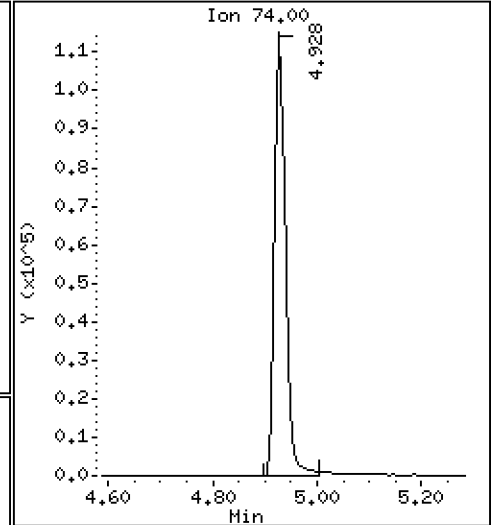
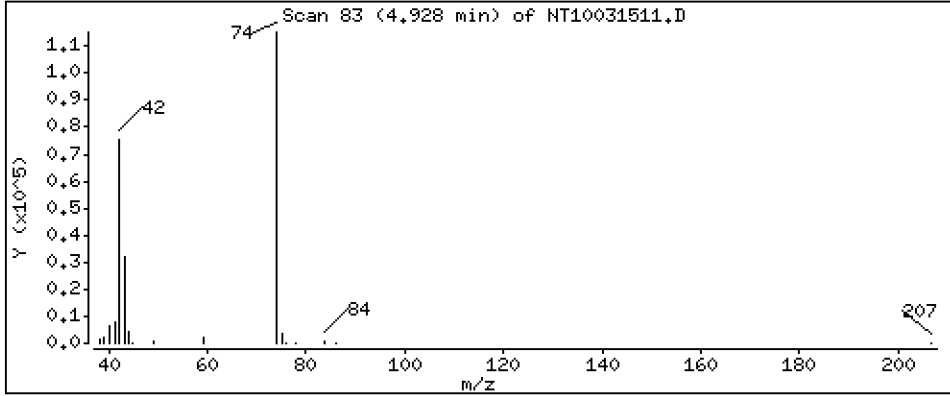
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

90 N-Nitrosodimethylamine

Concentration: 5.194 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

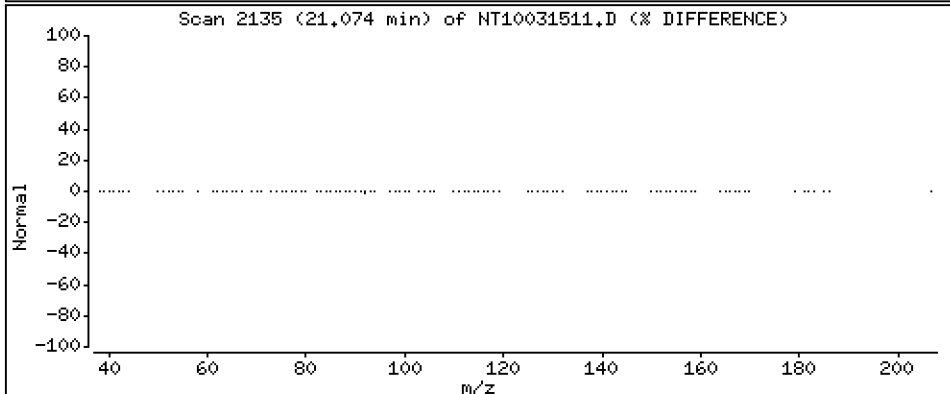
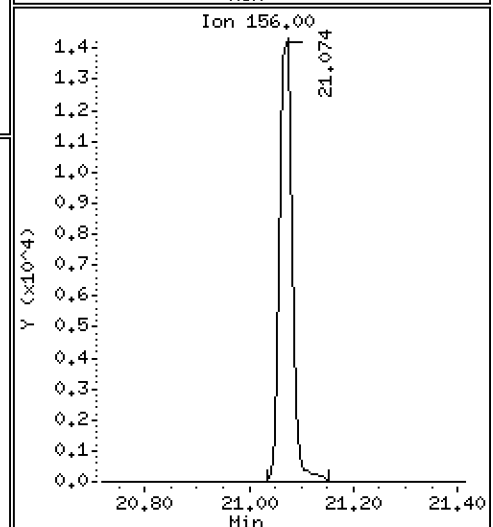
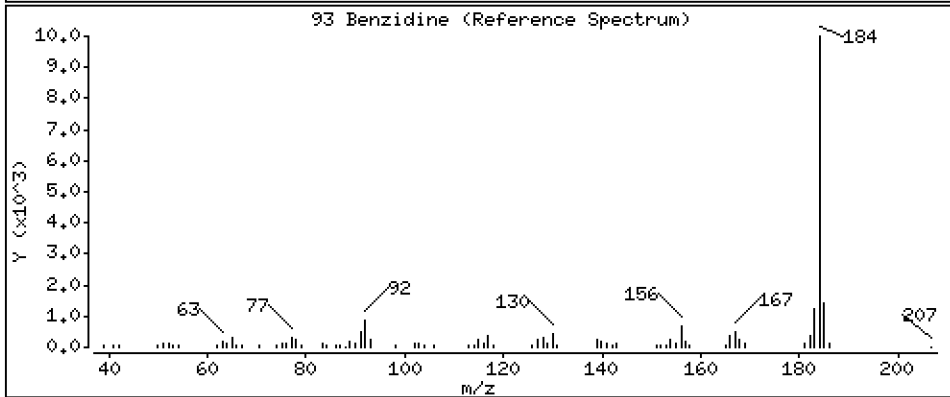
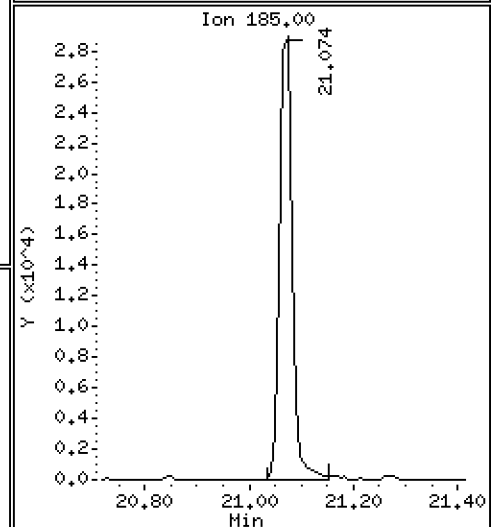
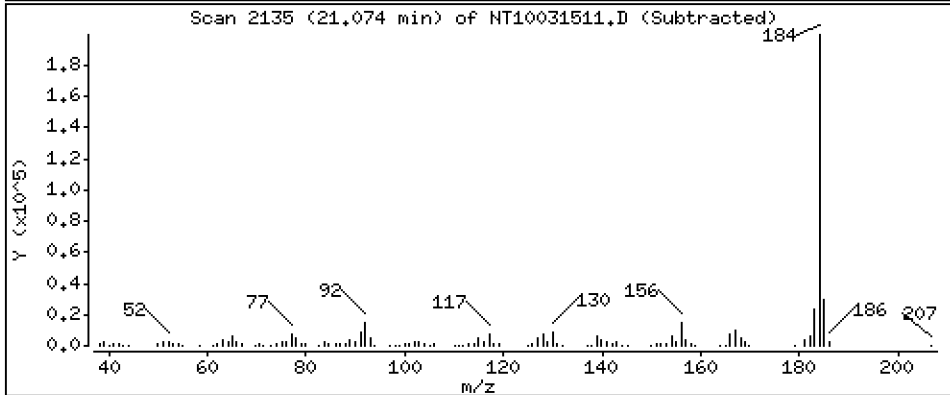
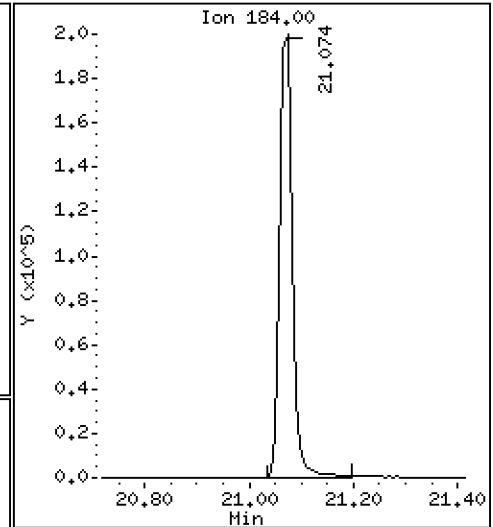
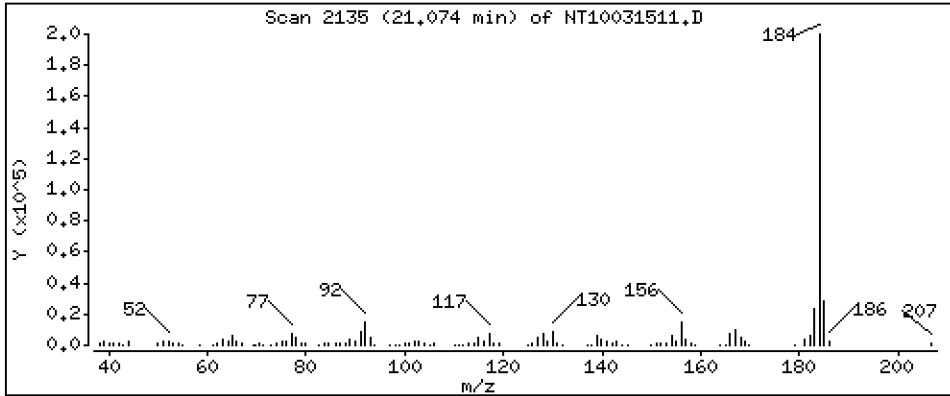
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

93 Benzidine

Concentration: 4,380 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

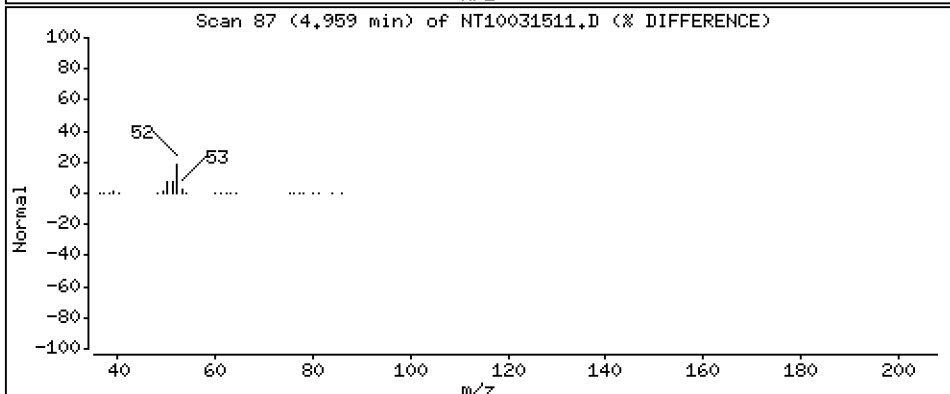
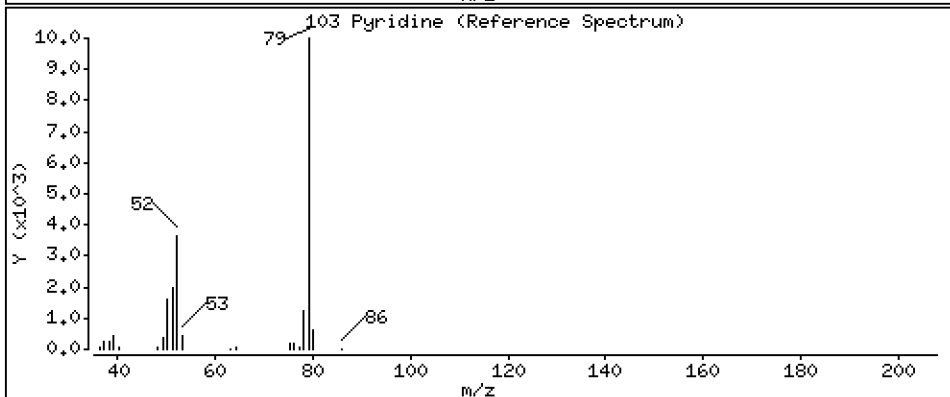
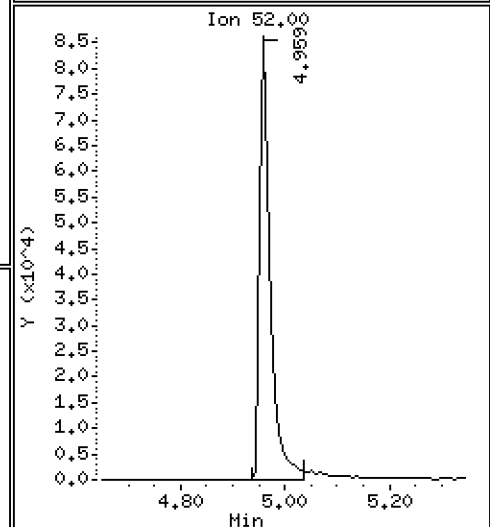
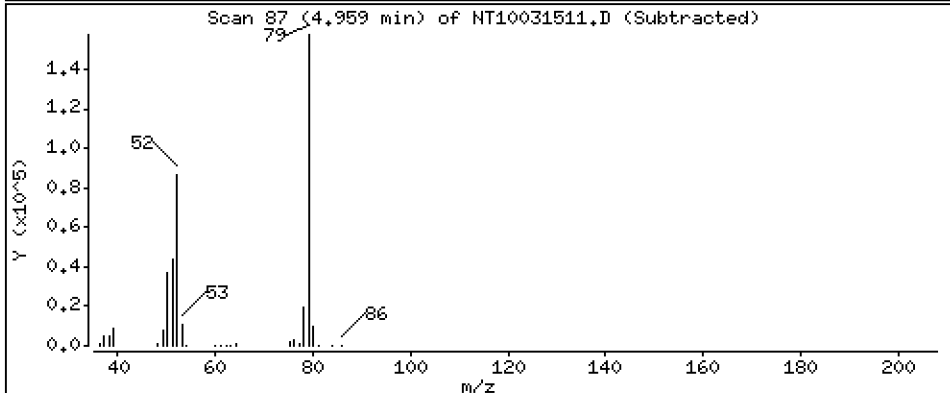
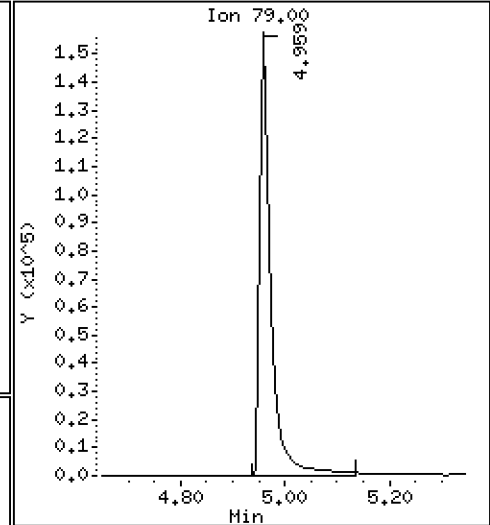
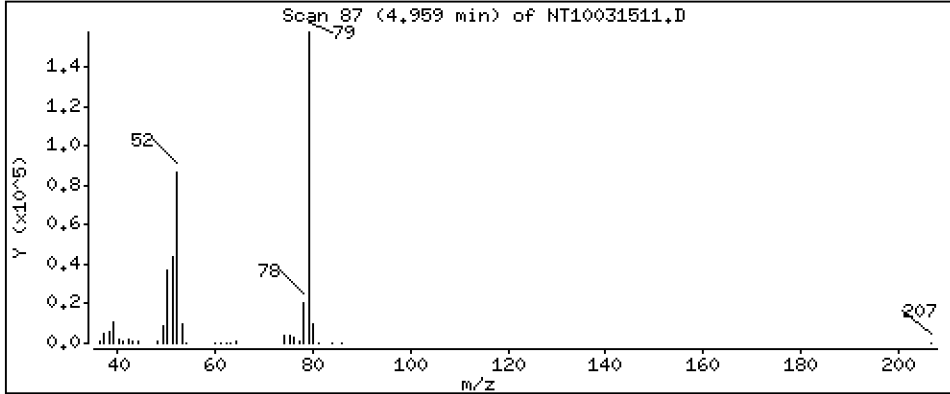
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

103 Pyridine

Concentration: 5.337 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

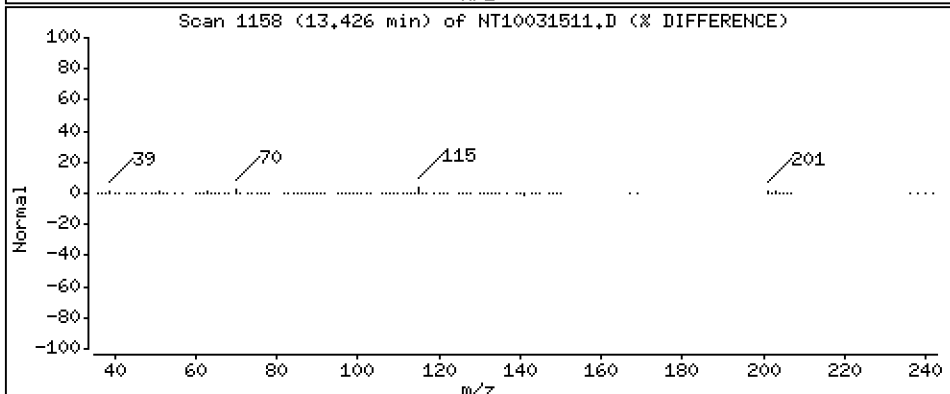
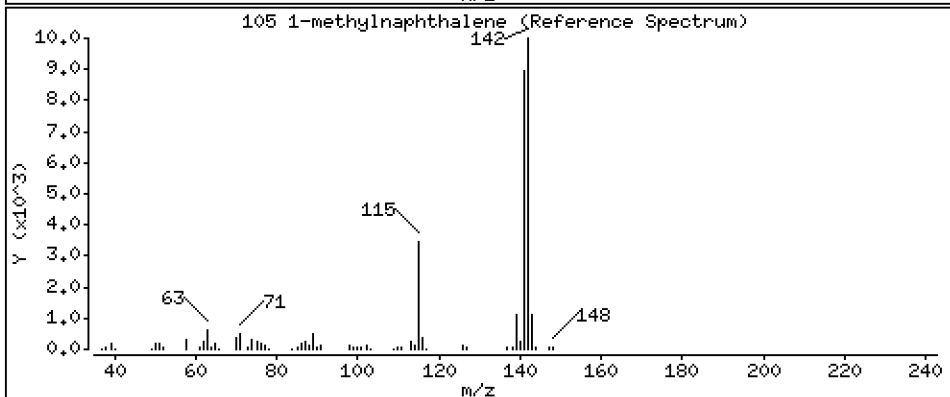
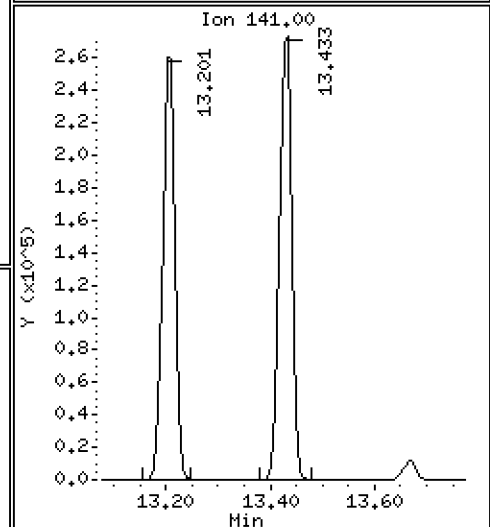
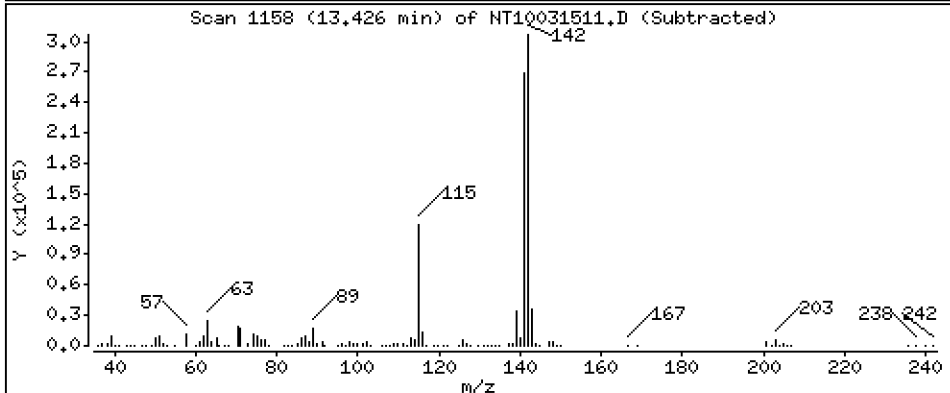
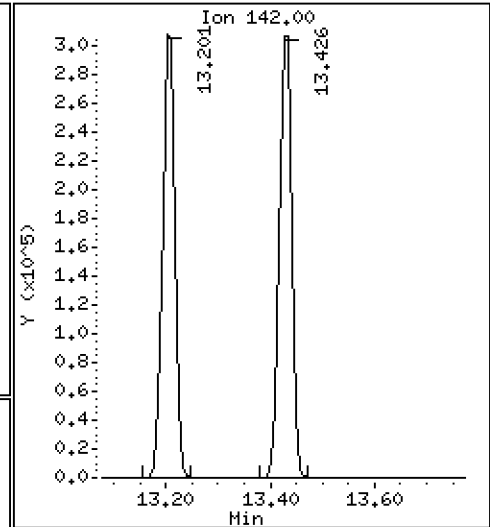
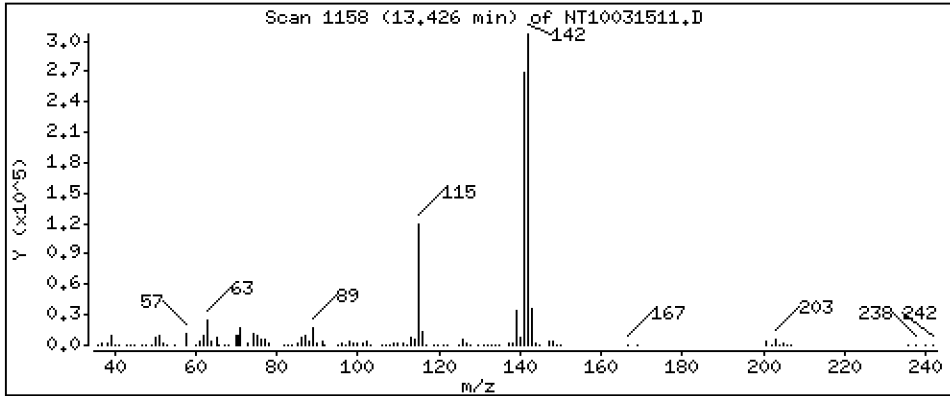
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 4,875 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

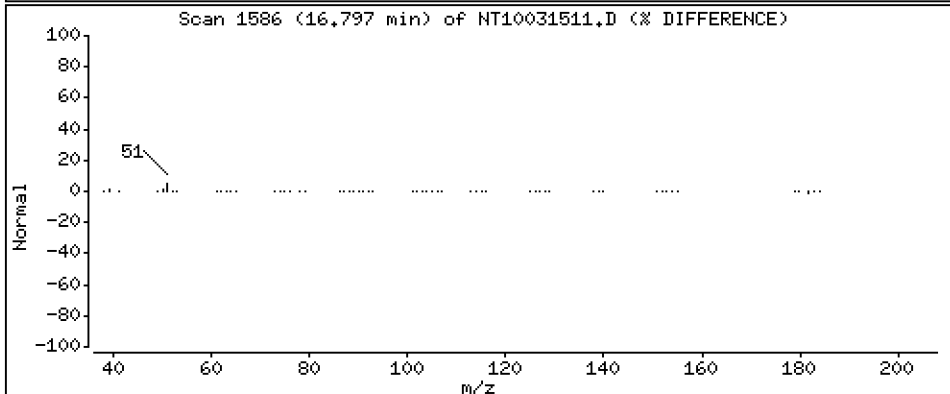
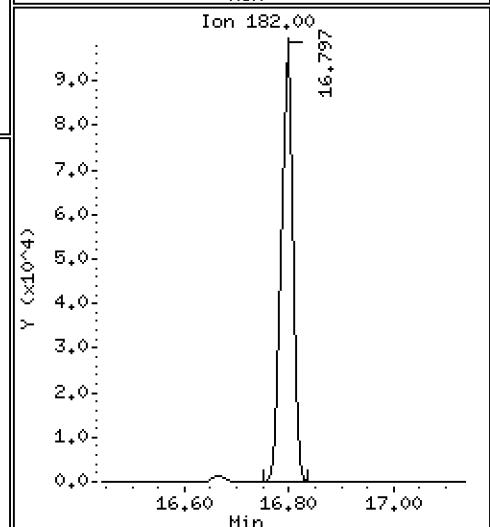
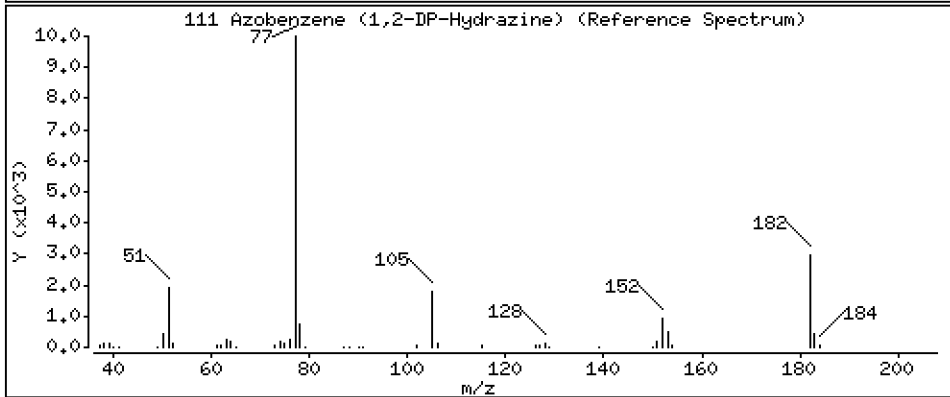
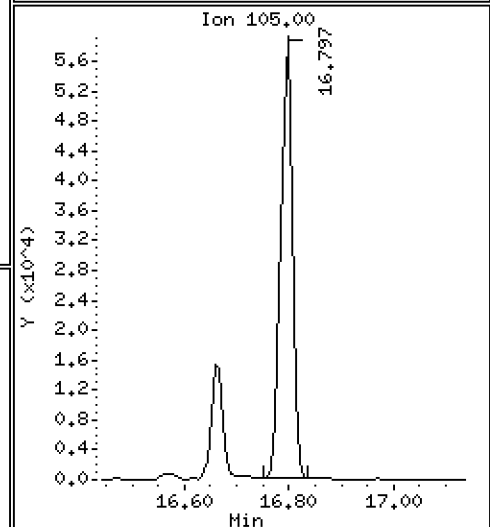
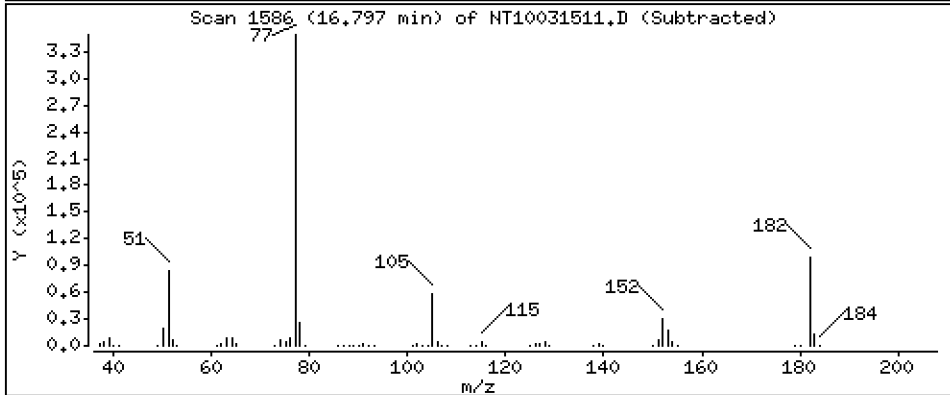
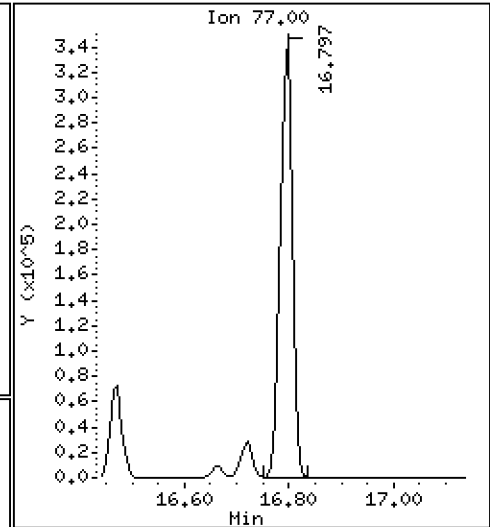
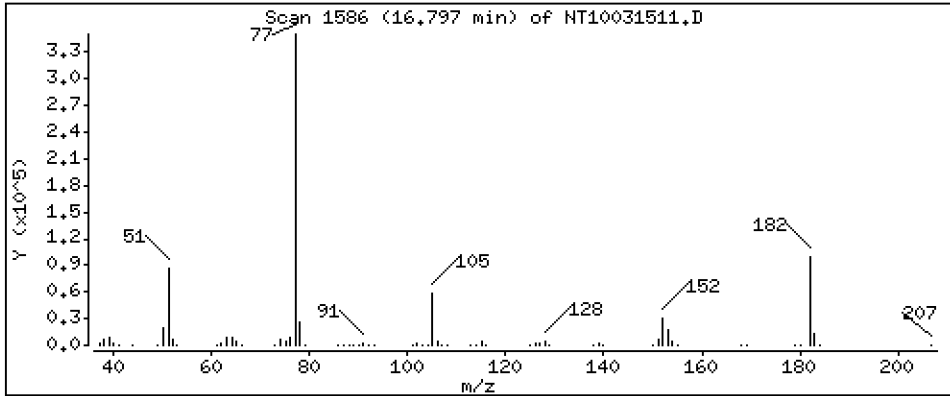
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 4.937 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

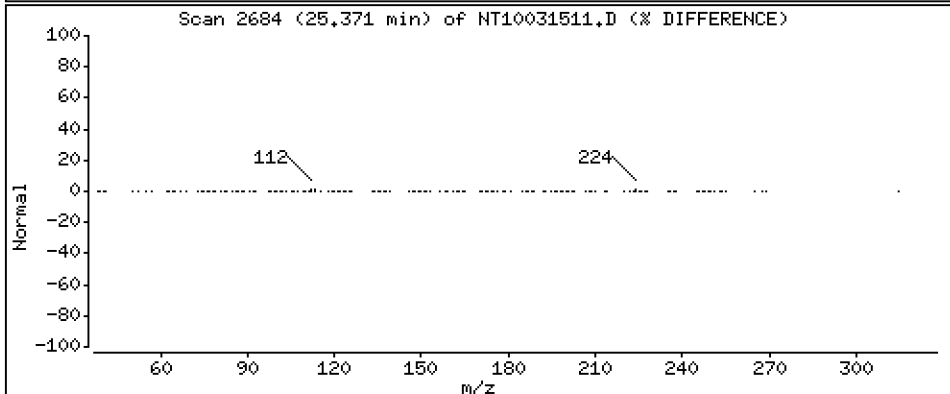
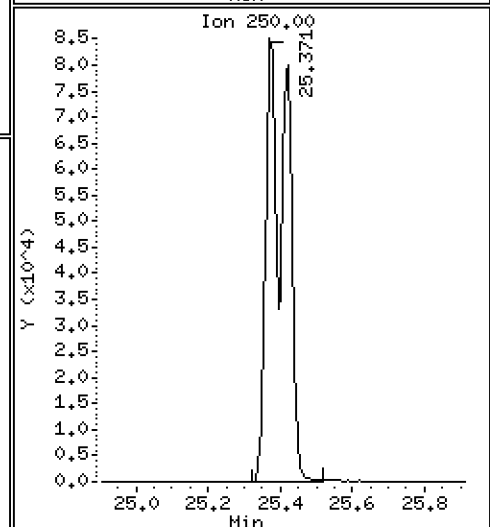
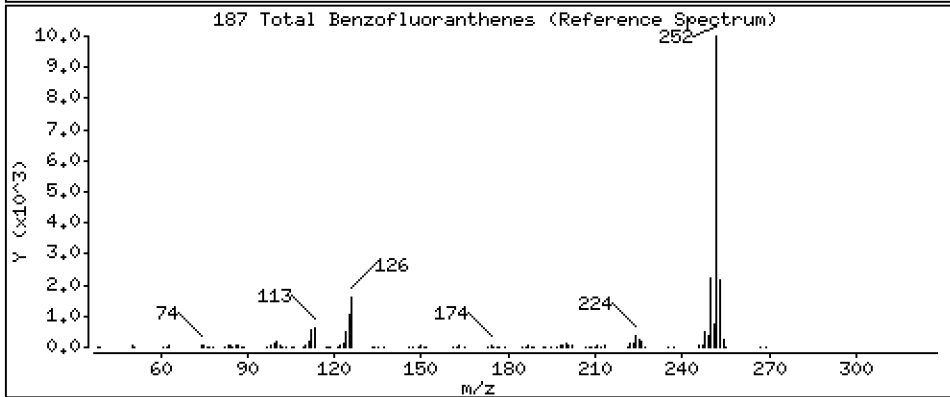
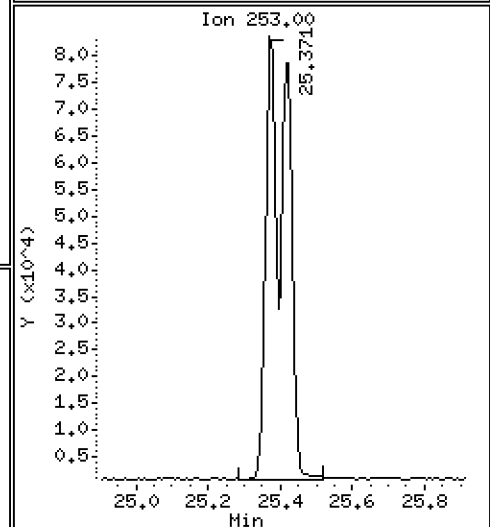
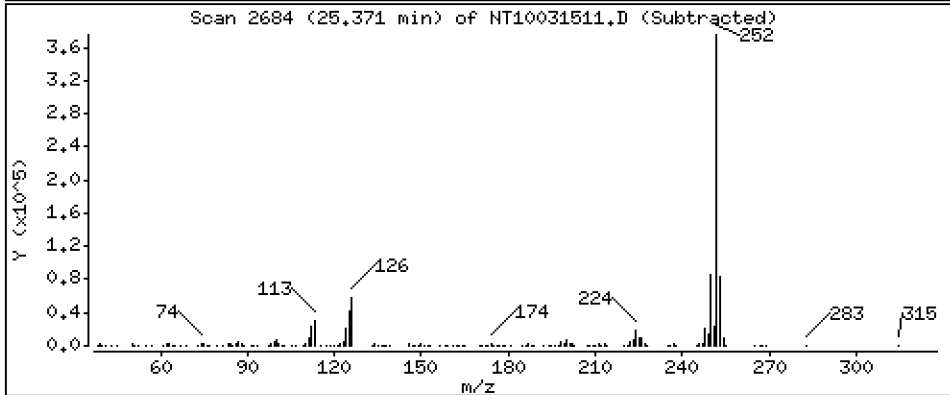
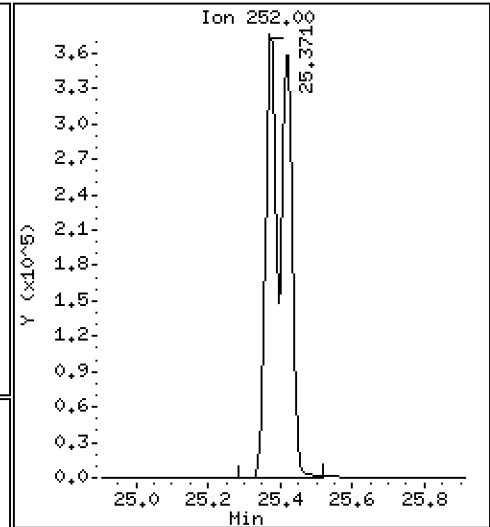
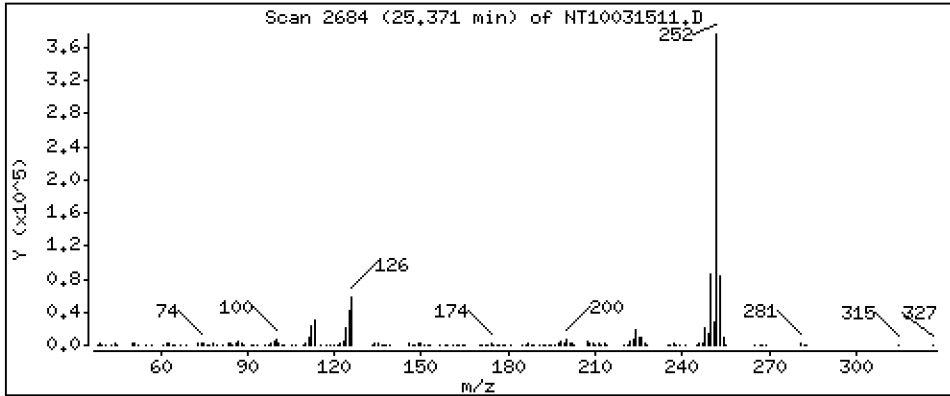
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 9,483 ug/mL



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

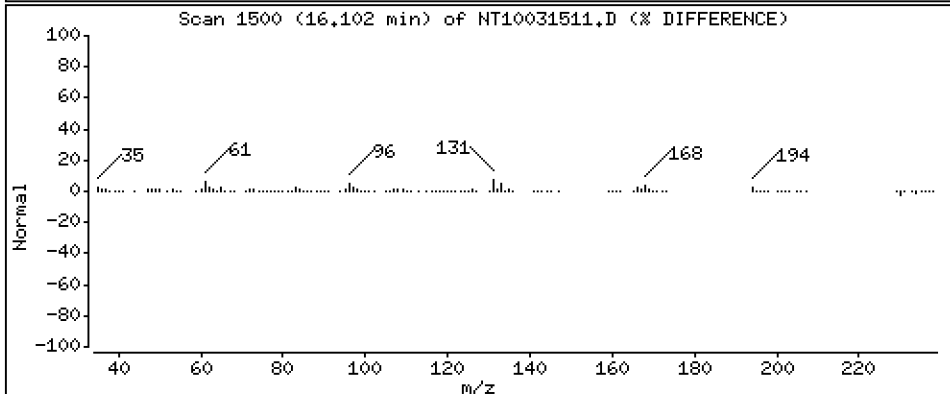
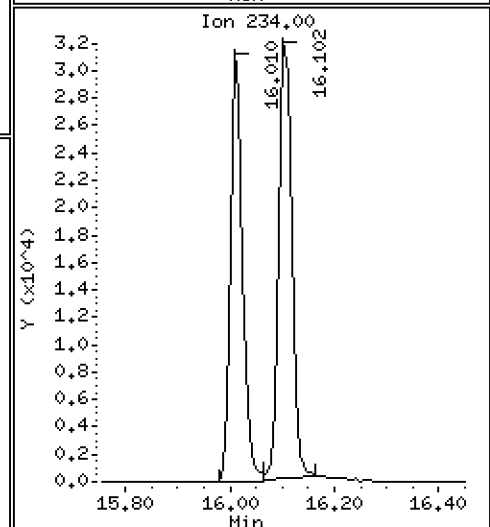
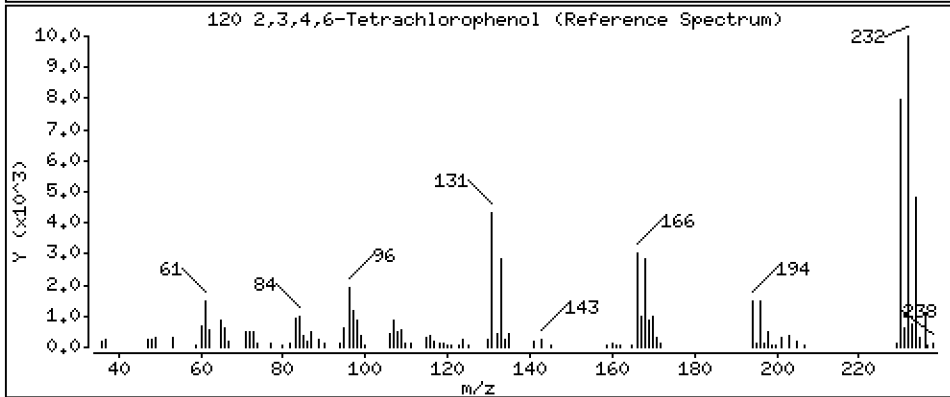
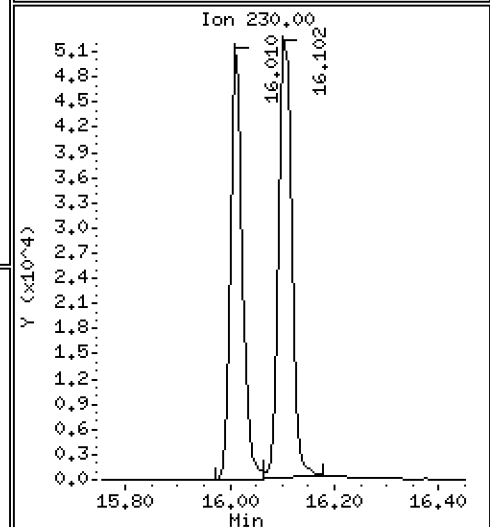
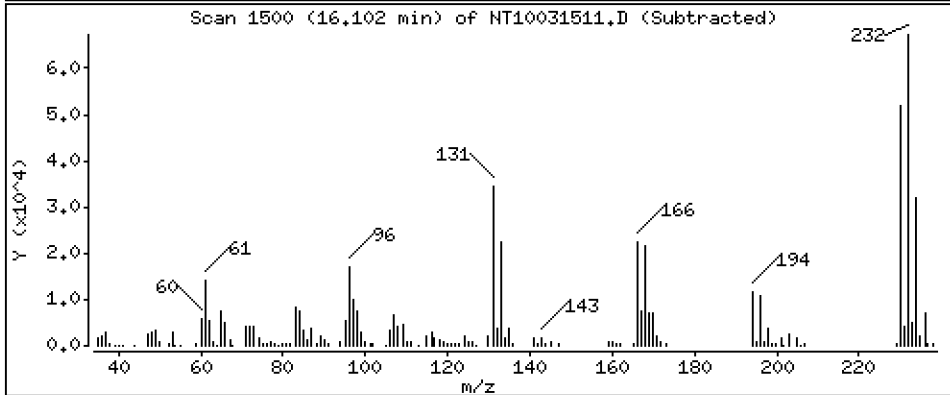
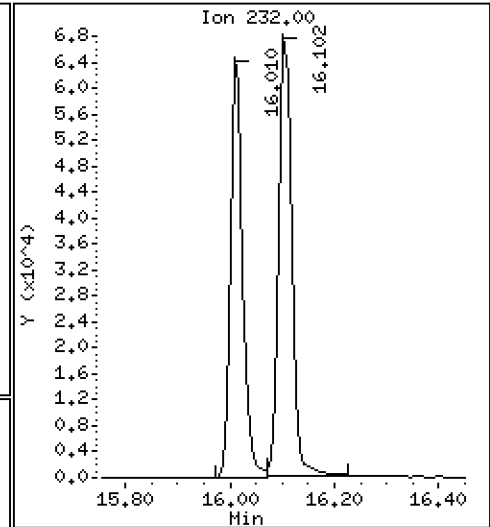
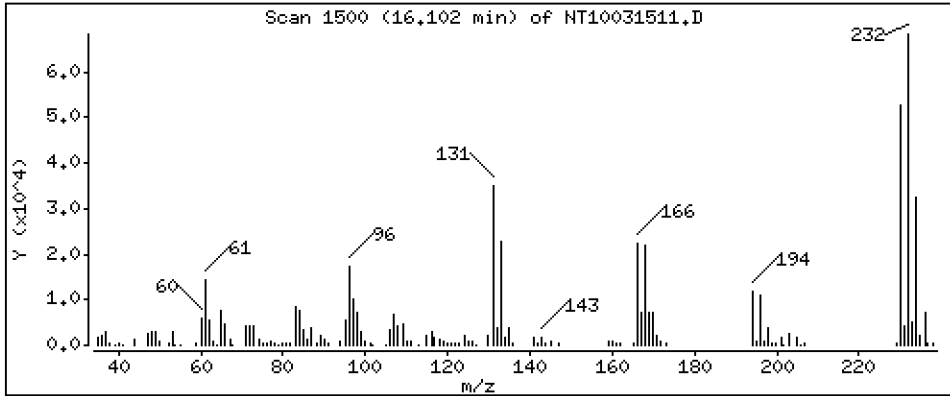
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

120 2,3,4,6-Tetrachlorophenol

Concentration: 3,980 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230315.b\NT10031511.D
 Lab Smp Id: SLC0228-SCV1
 Inj Date : 16-MAR-2023 02:16
 Operator : VTS Inst ID: nt10.i
 Smp Info : SLC0228-SCV1
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt10.i\20230315.b\ABN.m
 Meth Date : 16-Mar-2023 12:06 van Quant Type: ISTD
 Cal Date : 16-MAR-2023 00:22 Cal File: NT10031508.D
 Als bottle: 11
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: ICAL.sub
 Target Version: 4.14
 Processing Host: VANS-201906

| Compounds | QUANT | SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|---------------------------------|-------|-----|--------|--------|---------|------------------------|----------------|---------|
| | | | | | | | ON-COLUMN | FINAL |
| | MASS | | | | | | (ug/mL) | (ug/mL) |
| ===== | ==== | | ==== | ===== | ===== | ===== | ===== | ===== |
| \$ 1 2-Fluorophenol | 112 | | | | | Compound Not Detected. | | |
| \$ 2 Phenol-d5 | 99 | | | | | Compound Not Detected. | | |
| 3 Phenol | 94 | | 8.659 | 8.652 | (0.931) | 281600 | 4.41237 | 4.412 |
| \$ 5 2-Chlorophenol-d4 | 132 | | | | | Compound Not Detected. | | |
| 4 Bis(2-Chloroethyl)ether | 93 | | 8.837 | 8.837 | (0.950) | 248892 | 5.25818 | 5.258 |
| 6 2-Chlorophenol | 128 | | 8.960 | 8.961 | (0.963) | 233608 | 4.27685 | 4.277 |
| 7 1,3-Dichlorobenzene | 146 | | 9.239 | 9.231 | (0.993) | 275540 | 4.77157 | 4.772 |
| * 8 1,4-Dichlorobenzene-d4 | 152 | | 9.301 | 9.293 | (1.000) | 154809 | 4.00000 | |
| 9 1,4-Dichlorobenzene | 146 | | 9.332 | 9.325 | (1.003) | 274051 | 4.91272 | 4.913 |
| \$ 10 1,2-Dichlorobenzene-d4 | 152 | | | | | Compound Not Detected. | | |
| 12 1,2-Dichlorobenzene | 146 | | 9.689 | 9.682 | (1.042) | 268028 | 4.88215 | 4.882 |
| 11 Benzyl alcohol | 108 | | 9.557 | 9.557 | (1.028) | 147597 | 4.92722 | 4.927 |
| 14 2,2'-oxybis(1-Chloropropane) | 121 | | 9.860 | 9.860 | (1.060) | 100179 | 6.21363 | 6.214 |
| 13 2-Methylphenol | 108 | | 9.775 | 9.767 | (1.051) | 196115 | 4.21542 | 4.215 |
| 17 Hexachloroethane | 117 | | 10.279 | 10.271 | (1.105) | 114513 | 5.00332 | 5.003 |
| 16 N-Nitroso-di-n-propylamine | 70 | | 10.116 | 10.108 | (1.088) | 190250 | 5.17896 | 5.179 |
| 15 4-Methylphenol | 108 | | 10.046 | 10.031 | (1.080) | 213951 | 4.36462 | 4.365 |
| \$ 18 Nitrobenzene-d5 | 82 | | | | | Compound Not Detected. | | |
| 19 Nitrobenzene | 77 | | 10.426 | 10.419 | (0.885) | 274714 | 4.85798 | 4.858 |
| 20 Isophorone | 82 | | 10.861 | 10.861 | (0.922) | 556741 | 7.69604 | 7.696 |
| 21 2-Nitrophenol | 139 | | 11.047 | 11.048 | (0.938) | 110302 | 3.99452 | 3.995 |
| 22 2,4-Dimethylphenol | 107 | | 11.081 | 11.082 | (0.941) | 188638 | 3.63181 | 3.632 |
| 23 Bis(2-Chloroethoxy)methane | 93 | | 11.285 | 11.285 | (0.958) | 273219 | 5.65409 | 5.654 |
| 24 Benzoic acid | 105 | | 11.217 | 11.166 | (0.952) | 173961 | 5.95241 | 5.952 |
| 25 2,4-Dichlorophenol | 162 | | 11.489 | 11.489 | (0.975) | 195480 | 4.70301 | 4.703 |
| 26 1,2,4-Trichlorobenzene | 180 | | 11.685 | 11.685 | (0.992) | 222176 | 4.55366 | 4.554 |
| * 27 Naphthalene-d8 | 136 | | 11.777 | 11.770 | (1.000) | 570882 | 4.00000 | |
| 28 Naphthalene | 128 | | 11.816 | 11.816 | (1.003) | 713318 | 4.71662 | 4.717 |
| 29 4-Chloroaniline | 127 | | 11.940 | 11.940 | (1.014) | 223402 | 3.78650 | 3.787 |
| 30 Hexachlorobutadiene | 225 | | 12.171 | 12.172 | (1.033) | 138198 | 4.83404 | 4.834 |
| 31 4-Chloro-3-methylphenol | 107 | | 12.876 | 12.876 | (1.093) | 208794 | 4.64027 | 4.640 |
| 32 2-Methylnaphthalene | 142 | | 13.201 | 13.201 | (1.121) | 501627 | 4.59617 | 4.596 |
| 33 Hexachlorocyclopentadiene | 237 | | 13.665 | 13.665 | (0.888) | 132827 | 4.72902 | 4.729 |

| Compounds | QUANT SIG | CONCENTRATIONS | | | | | |
|-----------------------------------|-----------|------------------------|--------|---------|--------|----------|-------------------|
| | | MASS | RT | EXP RT | REL RT | RESPONSE | ON-COLUMN (ug/mL) |
| 34 2,4,6-Trichlorophenol | 196 | 13.820 | 13.820 | (0.898) | 137849 | 4.59559 | 4.596 |
| 35 2,4,5-Trichlorophenol | 196 | 13.889 | 13.890 | (0.903) | 146935 | 4.40855 | 4.409 |
| § 36 2-Fluorobiphenyl | 172 | Compound Not Detected. | | | | | |
| 37 2-Chloronaphthalene | 162 | 14.199 | 14.191 | (0.923) | 466196 | 4.79589 | 4.796 |
| 38 2-Nitroaniline | 65 | 14.454 | 14.447 | (0.940) | 134108 | 4.91137 | 4.911 |
| 39 Dimethylphthalate | 163 | 14.880 | 14.873 | (0.967) | 486790 | 4.93747 | 4.937 |
| 40 Acenaphthylene | 152 | 15.074 | 15.066 | (0.980) | 727839 | 4.80509 | 4.805 |
| 41 2,6-Dinitrotoluene | 165 | 15.020 | 15.012 | (0.976) | 112840 | 5.29815 | 5.298 |
| * 42 Acenaphthene-d10 | 164 | 15.383 | 15.383 | (1.000) | 303490 | 4.00000 | |
| 43 3-Nitroaniline | 138 | 15.306 | 15.298 | (0.995) | 120530 | 5.01393 | 5.014 |
| 44 Acenaphthene | 153 | 15.453 | 15.445 | (1.005) | 446914 | 4.77589 | 4.776 |
| 45 2,4-Dinitrophenol | 184 | 15.515 | 15.515 | (1.009) | 27409 | 2.12395 | 2.124 |
| 46 Dibenzofuran | 168 | 15.777 | 15.770 | (1.026) | 641379 | 4.64790 | 4.648 |
| 47 4-Nitrophenol | 109 | 15.600 | 15.592 | (1.014) | 59816 | 3.96568 | 3.966 |
| 48 2,4-Dinitrotoluene | 165 | 15.824 | 15.817 | (1.029) | 144262 | 4.51019 | 4.510 |
| 50 Diethylphthalate | 149 | 16.326 | 16.319 | (1.061) | 503887 | 5.20905 | 5.209 |
| 49 Fluorene | 166 | 16.489 | 16.481 | (1.072) | 511113 | 4.70796 | 4.708 |
| 51 4-Chlorophenyl-phenylether | 204 | 16.473 | 16.466 | (1.071) | 257762 | 4.99294 | 4.993 |
| 52 4-Nitroaniline | 138 | 16.566 | 16.566 | (1.077) | 106701 | 4.92532 | 4.925 |
| 53 4,6-Dinitro-2-methylphenol | 198 | 16.666 | 16.658 | (0.905) | 56867 | 3.51509 | 3.515 |
| 54 N-Nitrosodiphenylamine | 169 | 16.720 | 16.712 | (0.908) | 342454 | 4.80180 | 4.802 |
| § 55 2,4,6-Tribromophenol | 330 | Compound Not Detected. | | | | | |
| 56 4-Bromophenyl-phenylether | 248 | 17.475 | 17.476 | (0.949) | 150956 | 5.05964 | 5.060 |
| 57 Hexachlorobenzene | 284 | 17.800 | 17.793 | (0.966) | 143751 | 4.59553 | 4.596 |
| 58 Pentachlorophenol | 266 | 18.149 | 18.149 | (0.985) | 75635 | 4.05676 | 4.057 |
| * 59 Phenanthrene-d10 | 188 | 18.420 | 18.420 | (1.000) | 533431 | 4.00000 | |
| 60 Phenanthrene | 178 | 18.466 | 18.466 | (1.003) | 669357 | 4.60181 | 4.602 |
| 61 Anthracene | 178 | 18.559 | 18.559 | (1.008) | 581438 | 4.16715 | 4.167 |
| 62 Carbazole | 167 | 18.884 | 18.884 | (1.025) | 591382 | 4.72989 | 4.730 |
| 63 Di-n-butylphthalate | 149 | 19.665 | 19.666 | (1.068) | 830680 | 4.96738 | 4.967 |
| 64 Fluoranthene | 202 | 20.841 | 20.841 | (0.888) | 782432 | 4.47248 | 4.472 |
| 65 Pyrene | 202 | 21.267 | 21.267 | (0.907) | 778668 | 4.33892 | 4.339 |
| § 66 Terphenyl-d14 | 244 | Compound Not Detected. | | | | | |
| 67 Butylbenzylphthalate | 149 | 22.459 | 22.460 | (0.957) | 314007 | 4.83397 | 4.834 |
| 68 Benzo(a)anthracene | 228 | 23.427 | 23.419 | (0.999) | 714166 | 4.64722 | 4.647 |
| * 69 Chrysene-d12 | 240 | 23.458 | 23.450 | (1.000) | 435381 | 4.00000 | |
| 70 3,3'-Dichlorobenzidine | 252 | 23.373 | 23.373 | (0.996) | 483256 | 9.81738 | 9.817 |
| 71 Chrysene | 228 | 23.497 | 23.489 | (1.002) | 677151 | 4.51017 | 4.510 |
| 72 bis(2-Ethylhexyl)phthalate | 149 | 23.481 | 23.474 | (0.959) | 453669 | 4.67998 | 4.680 |
| * 134 Di-n-octylphthalate-d4 | 153 | 24.487 | 24.480 | (1.000) | 660827 | 4.00000 | |
| 73 Di-n-octylphthalate | 149 | 24.495 | 24.488 | (1.000) | 855562 | 4.94734 | 4.947 |
| 74 Benzo(b)fluoranthene | 252 | 25.370 | 25.362 | (0.969) | 737887 | 4.60200 | 4.602 (H) |
| 75 Benzo(k)fluoranthene | 252 | 25.416 | 25.409 | (0.970) | 797521 | 4.89839 | 4.898 |
| 76 Benzo(a)pyrene | 252 | 26.067 | 26.052 | (0.995) | 698616 | 4.87338 | 4.873 |
| * 77 Perylene-d12 | 264 | 26.191 | 26.183 | (1.000) | 494648 | 4.00000 | |
| 78 Indeno(1,2,3-cd)pyrene | 276 | 29.005 | 28.990 | (1.107) | 834672 | 4.57655 | 4.577 |
| 79 Dibenzo(a,h)anthracene | 278 | 29.021 | 29.005 | (1.108) | 688433 | 4.54663 | 4.547 |
| 80 Benzo(g,h,i)perylene | 276 | 29.852 | 29.821 | (1.140) | 724463 | 4.59000 | 4.590 |
| 90 N-Nitrosodimethylamine | 74 | 4.928 | 4.936 | (0.530) | 155126 | 5.19378 | 5.194 |
| 91 Aniline | 93 | Compound Not Detected. | | | | | |
| 93 Benzidine | 184 | 21.073 | 21.066 | (0.898) | 314737 | 4.37985 | 4.380 |
| 103 Pyridine | 79 | 4.959 | 4.997 | (0.533) | 244801 | 5.33678 | 5.337 |
| 105 1-methylnaphthalene | 142 | 13.425 | 13.425 | (1.140) | 487498 | 4.87520 | 4.875 |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77 | 16.797 | 16.789 | (1.092) | 533524 | 4.93744 | 4.937 |

| Compounds | QUANT SIG | | | | | | | CONCENTRATIONS | |
|-------------------------------|-----------|--|--------|--------|---------|----------|----------------------|------------------|--|
| | MASS | | RT | EXP RT | REL RT | RESPONSE | ON-COLUMN (ug/mL) | FINAL (ug/mL) | |
| ===== | ===== | | ===== | ===== | ===== | ===== | ===== | ===== | |
| 187 Total Benzofluoranthenes | 252 | | 25.370 | 25.409 | (0.969) | 1468165 | 9.48349 | 9.483 | |
| 120 2,3,4,6-Tetrachlorophenol | 232 | | 16.102 | 16.103 | (1.047) | 124685 | 3.97959 | 3.980 | |

QC Flag Legend

H - Operator selected an alternate compound hit.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 15-MAR-2023
 Lab File ID: NT10031511.D Calibration Time: 21:50
 Lab Smp Id: SLC0228-SCV1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt10.i\20230315.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|--------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 171542 | 85771 | 343084 | 154809 | -9.75 |
| 27 Naphthalene-d8 | 624466 | 312233 | 1248932 | 570882 | -8.58 |
| 42 Acenaphthene-d10 | 337226 | 168613 | 674452 | 303490 | -10.00 |
| 59 Phenanthrene-d10 | 572849 | 286425 | 1145698 | 533431 | -6.88 |
| 69 Chrysene-d12 | 347068 | 173534 | 694136 | 435381 | 25.45 |
| 134 Di-n-octylphthala | 500317 | 250159 | 1000634 | 660827 | 32.08 |
| 77 Perylene-d12 | 421549 | 210775 | 843098 | 494648 | 17.34 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 9.30 | 8.80 | 9.80 | 9.30 | -0.00 |
| 27 Naphthalene-d8 | 11.78 | 11.28 | 12.28 | 11.78 | 0.01 |
| 42 Acenaphthene-d10 | 15.38 | 14.88 | 15.88 | 15.38 | 0.00 |
| 59 Phenanthrene-d10 | 18.42 | 17.92 | 18.92 | 18.42 | 0.00 |
| 69 Chrysene-d12 | 23.45 | 22.95 | 23.95 | 23.46 | 0.04 |
| 134 Di-n-octylphthala | 24.48 | 23.98 | 24.98 | 24.49 | 0.03 |
| 77 Perylene-d12 | 26.18 | 25.68 | 26.68 | 26.19 | 0.03 |

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

REVIEW SUMMARY FOR FILE - NT10031511.D

Lab ID: SLC0228-SCV1
nt10.i, 20230315.b\ABN.m, 16-MAR-2023 02:16

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

** FIRST SURROGATE NOT FOUND. ICAL Check not performed **

RRT CHECK

| RRT | CCV RRT | DELTA | COMPOUND |
|-------|---------|--------|--------------|
| 0.952 | 0.000 | 0.9524 | Benzoic acid |

RRT check based on Ccal File: NT10031508.D

On Column LOD for nt10.i, 20230315.b\ABN.m, ICAL.sub = 0.0000

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



CONTINUING CALIBRATION CHECK
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: NT10

Calibration: GC00046

Lab File ID: NT1003222333.D

Calibration Date: 03/15/2023

Sequence: SLC0397

Injection Date: 03/23/23

Lab Sample ID: SLC0397-CCV1

Injection Time: 13:22

Sequence Name: Calibration Check

| COMPOUND | TYPE | CONC. (ug/mL) | | RESPONSE FACTOR (RRF) | | | % DRIFT/DIFF | |
|-----------------------------|------|---------------|------|-----------------------|-----------|-----|--------------|-------|
| | | STD | CCV | ICAL | CCV | MIN | CCV | LIMIT |
| Phenol | A | 5.0000 | 4.8 | 1.6490140 | 1.5773250 | | -4.3 | +/-50 |
| 4-Methylphenol | A | 5.0000 | 5.0 | 1.2665770 | 1.2705760 | | 0.3 | +/-50 |
| Naphthalene | A | 5.0000 | 4.8 | 1.0596590 | 1.0142630 | | -4.3 | +/-50 |
| 2-Methylnaphthalene | A | 5.0000 | 5.2 | 0.7647129 | 0.8028074 | | 5.0 | +/-50 |
| Acenaphthylene | A | 5.0000 | 5.3 | 1.9964080 | 2.1279410 | | 6.6 | +/-50 |
| Dimethylphthalate | A | 5.0000 | 5.1 | 1.2994310 | 1.3330950 | | 2.6 | +/-50 |
| Acenaphthene | A | 5.0000 | 4.8 | 1.2333460 | 1.1824270 | | -4.1 | +/-50 |
| Dibenzofuran | A | 5.0000 | 4.8 | 1.8187540 | 1.7571130 | | -3.4 | +/-50 |
| Fluorene | A | 5.0000 | 5.0 | 1.4308680 | 1.4300750 | | -0.06 | +/-50 |
| Phenanthrene | A | 5.0000 | 4.8 | 1.0907130 | 1.0442280 | | -4.3 | +/-50 |
| Anthracene | A | 5.0000 | 5.1 | 1.0462760 | 1.0628550 | | 1.6 | +/-50 |
| Fluoranthene | A | 5.0000 | 4.1 | 1.6072690 | 1.3180210 | | -18.0 | +/-50 |
| Pyrene | A | 5.0000 | 4.2 | 1.6487720 | 1.3711600 | | -16.8 | +/-50 |
| Butylbenzylphthalate | A | 5.0000 | 4.9 | 0.5292894 | 0.5846832 | | -2.1 | +/-50 |
| Benzo(a)anthracene | A | 5.0000 | 4.8 | 1.4118770 | 1.3610700 | | -3.6 | +/-50 |
| Chrysene | A | 5.0000 | 4.6 | 1.3793780 | 1.2642770 | | -8.3 | +/-50 |
| bis(2-Ethylhexyl)phthalate | A | 5.0000 | 4.5 | 0.5248968 | 0.5291687 | | -9.8 | +/-50 |
| Benzo(a)fluoranthene, Total | A | 10.0000 | 10.4 | 1.2519020 | 1.2981960 | | 3.7 | +/-50 |
| Benzo(a)pyrene | A | 5.0000 | 5.1 | 1.1592370 | 1.1937220 | | 3.0 | +/-50 |
| Indeno(1,2,3-cd)pyrene | A | 5.0000 | 4.2 | 1.4748270 | 1.2494520 | | -15.3 | +/-50 |
| Dibenzo(a,h)anthracene | A | 5.0000 | 4.4 | 1.2244340 | 1.0833760 | | -11.5 | +/-50 |
| Benzo(g,h,i)perylene | A | 5.0000 | 3.8 | 1.2763410 | 0.9636889 | | -24.5 | +/-50 |
| 2-Fluorophenol | A | 7.5000 | 7.53 | 1.2096460 | 1.2137910 | | 0.3 | +/-50 |
| Phenol-d5 | A | 7.5000 | 7.55 | 1.5868760 | 1.5965040 | | 0.6 | +/-50 |
| 2-Chlorophenol-d4 | A | 7.5000 | 7.65 | 1.3550800 | 1.3819040 | | 2.0 | +/-50 |
| 1,2-Dichlorobenzene-d4 | A | 5.0000 | 4.88 | 0.9731556 | 0.9507077 | | -2.3 | +/-50 |
| Nitrobenzene-d5 | A | 5.0000 | 4.90 | 0.4037447 | 0.3956117 | | -2.0 | +/-50 |
| 2-Fluorobiphenyl | A | 5.0000 | 4.85 | 1.5822890 | 1.5362140 | | -2.9 | +/-50 |
| 2,4,6-Tribromophenol | A | 7.5000 | 8.64 | 0.1585901 | 0.2143872 | | 15.2 | +/-50 |
| p-Terphenyl-d14 | A | 5.0000 | 4.51 | 1.2381950 | 1.1157150 | | -9.9 | +/-50 |

* Values outside of QC limits

* Values outside of QC limits

Data File: \\target\share\chem3\nt10.1\20230322.16\NT1003222333.D

Date: 23-MAR-2023 13:22

Client ID:

Sample Info: SLC0397-CCW1

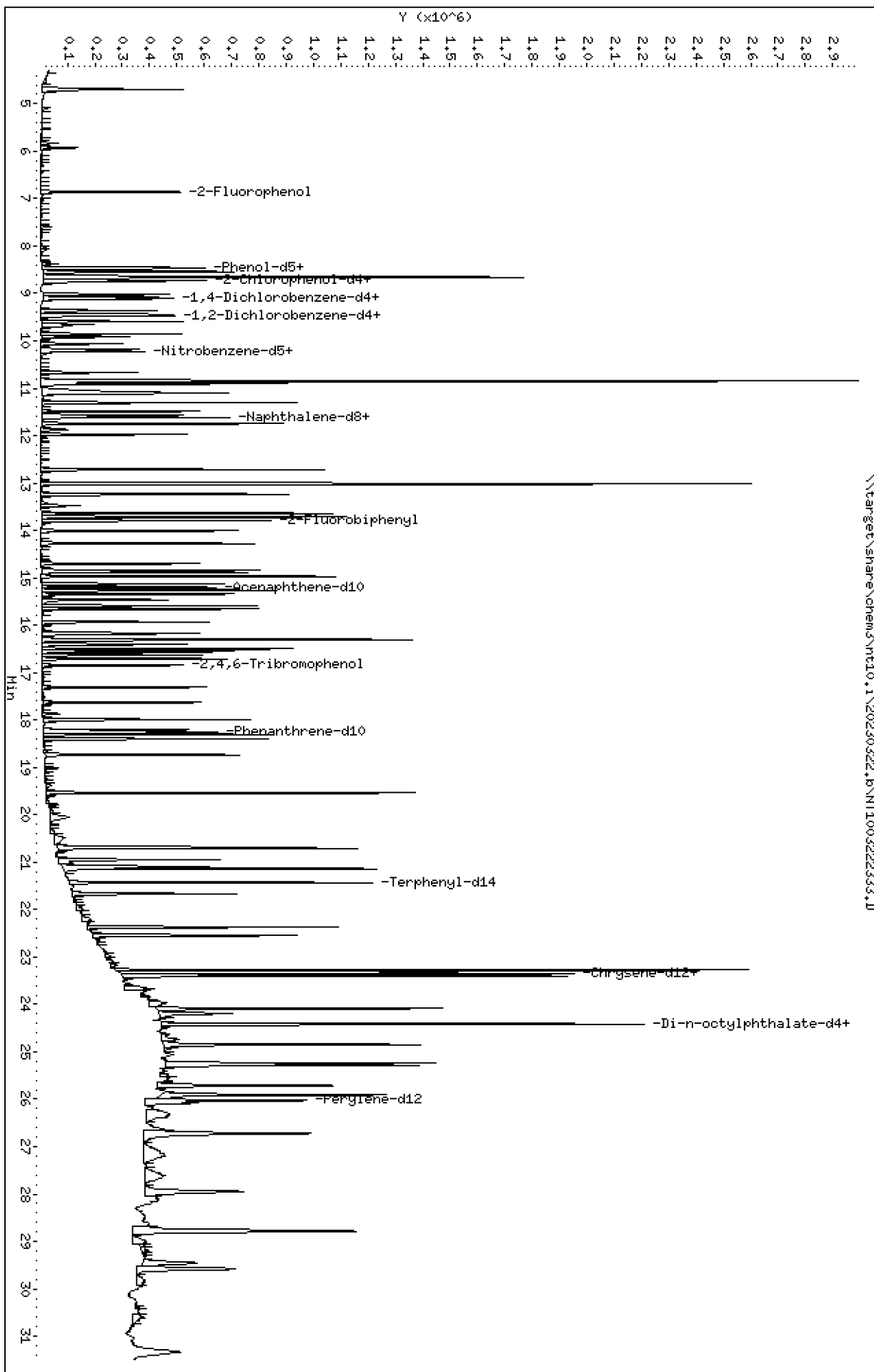
Page 1

Column phase: ZB-5msi

Instrument: nt10.1

Operator: VTS

Column diameter: 0.25



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

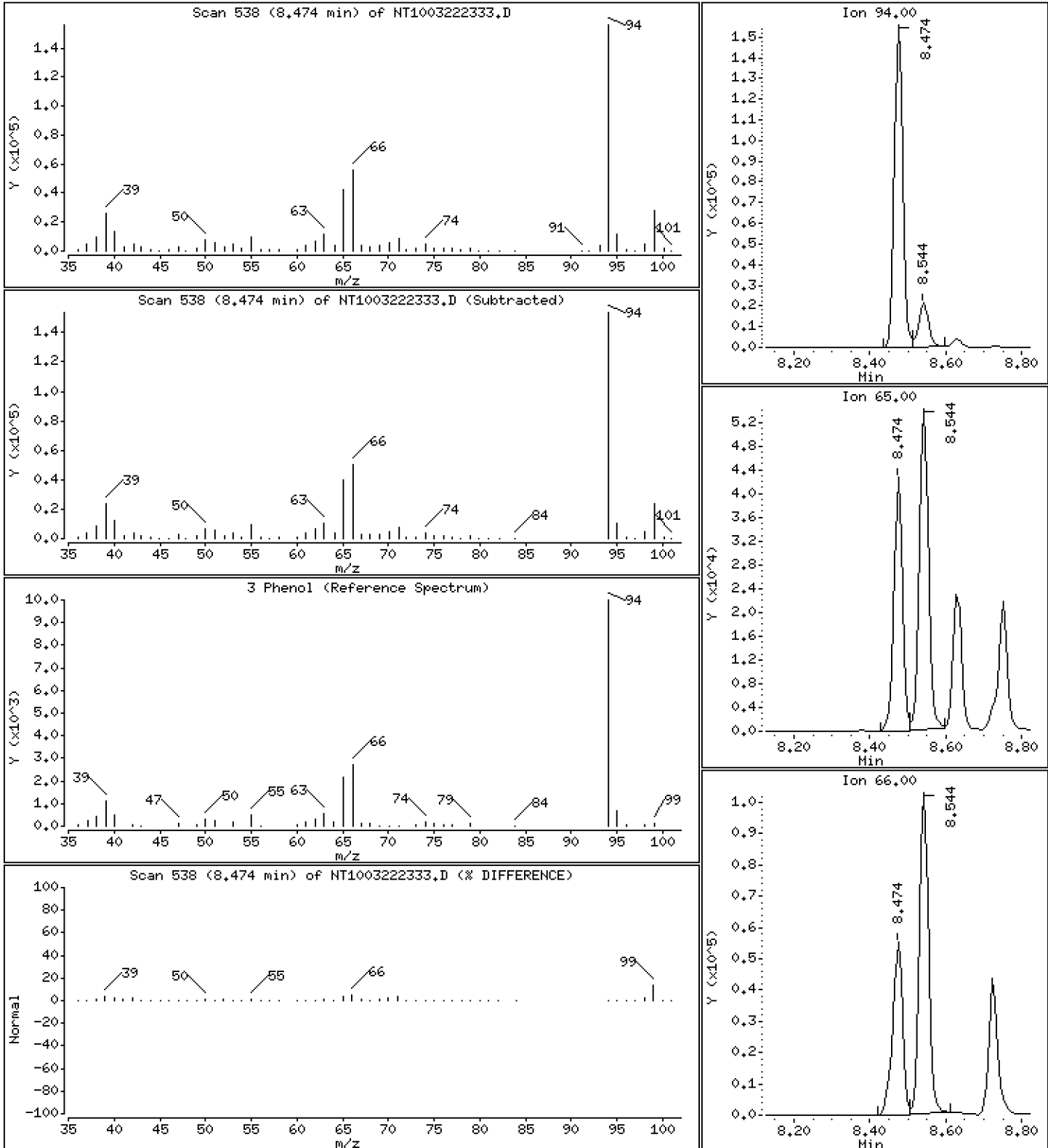
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 4,783 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

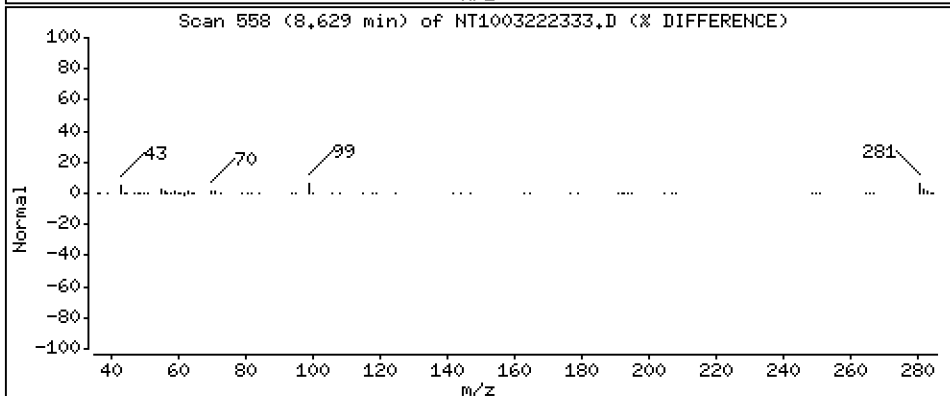
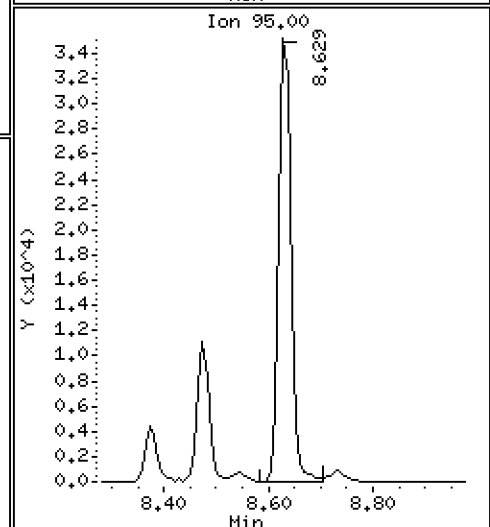
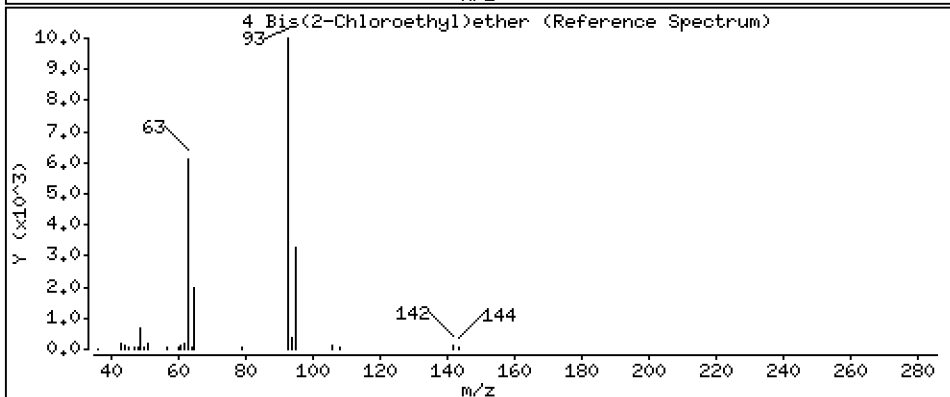
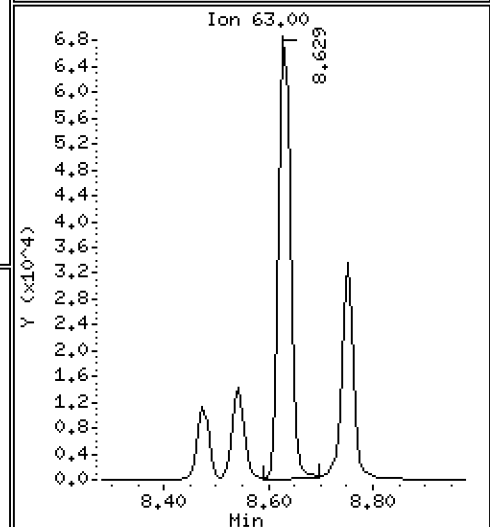
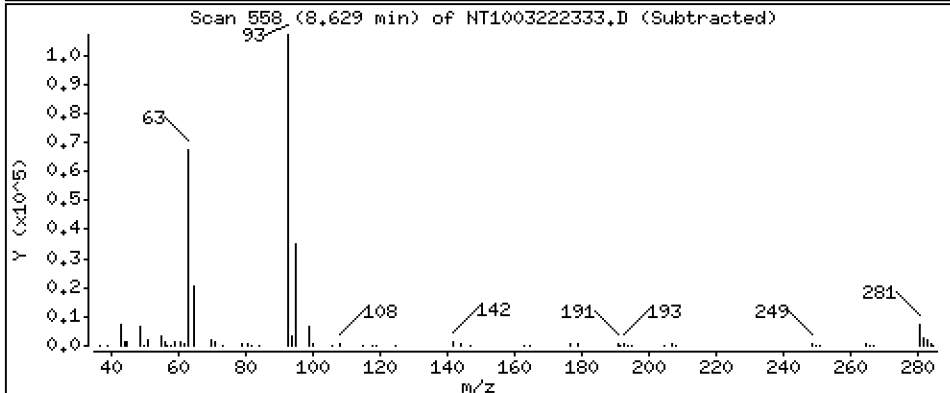
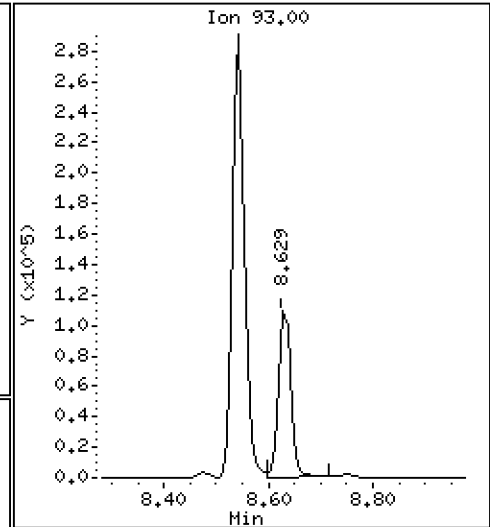
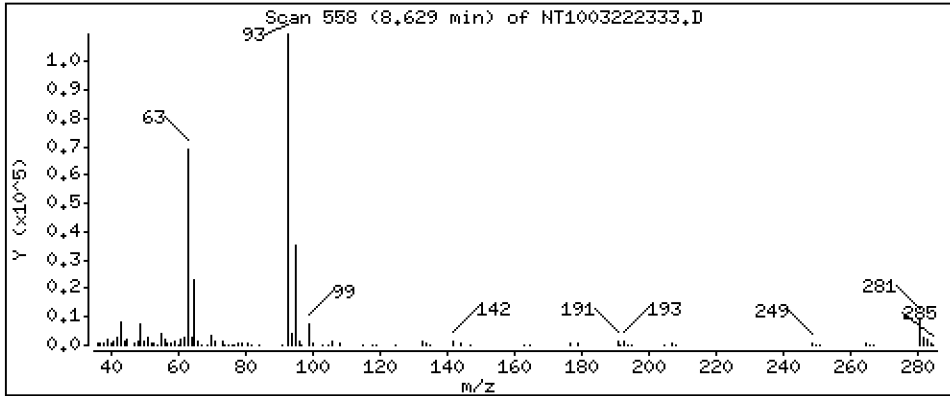
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

4 Bis(2-Chloroethyl)ether

Concentration: 4,730 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

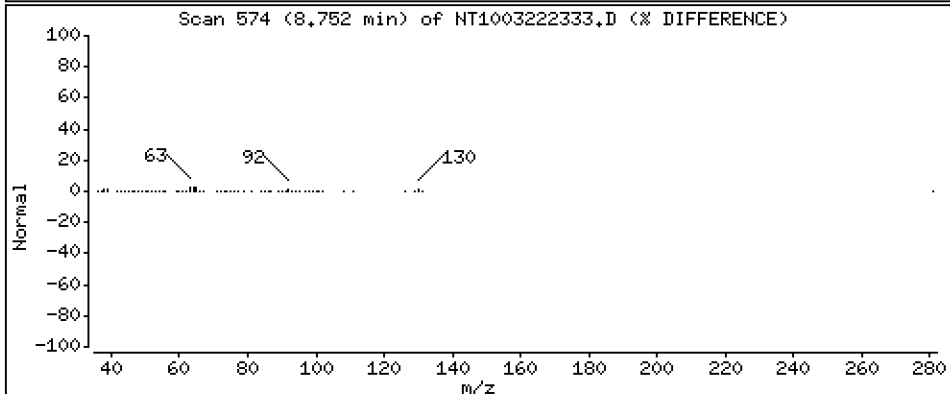
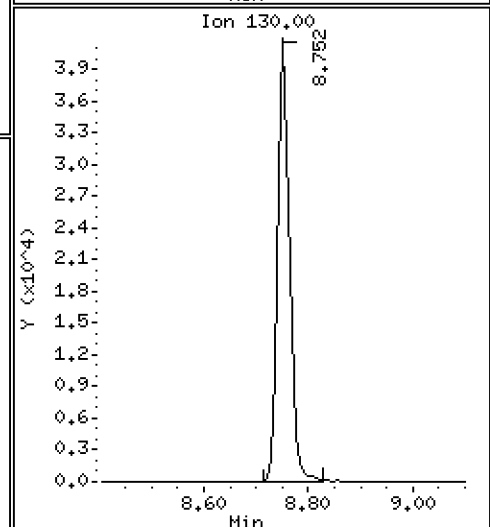
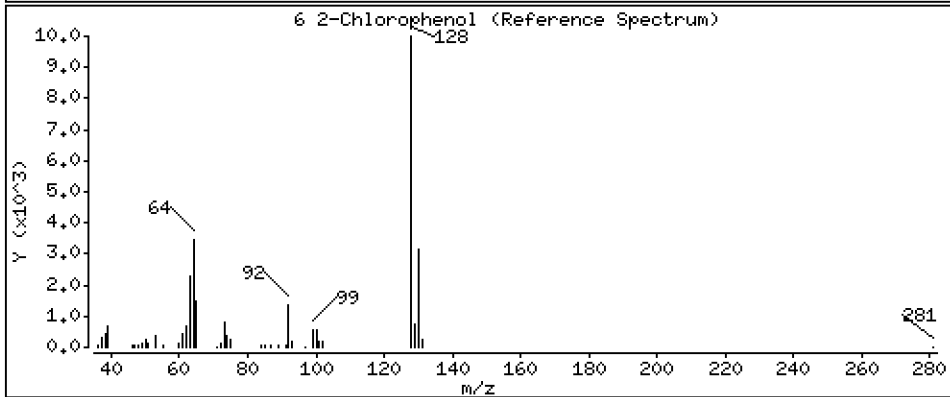
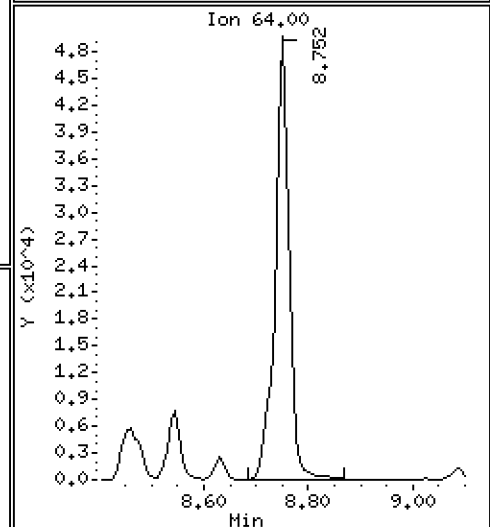
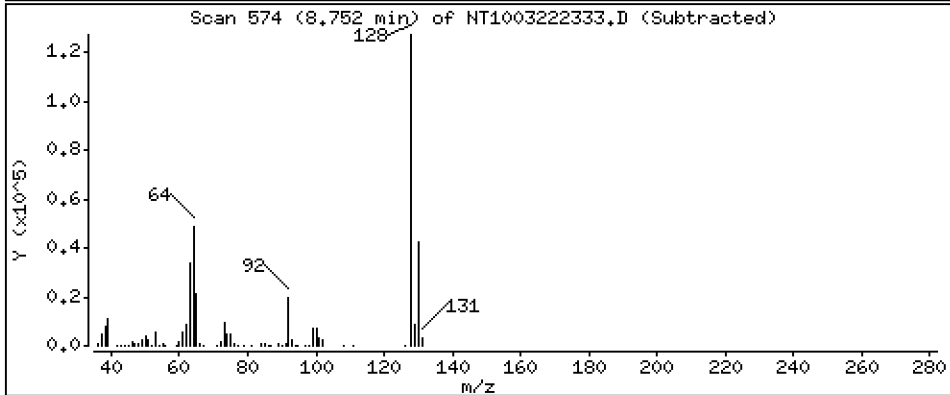
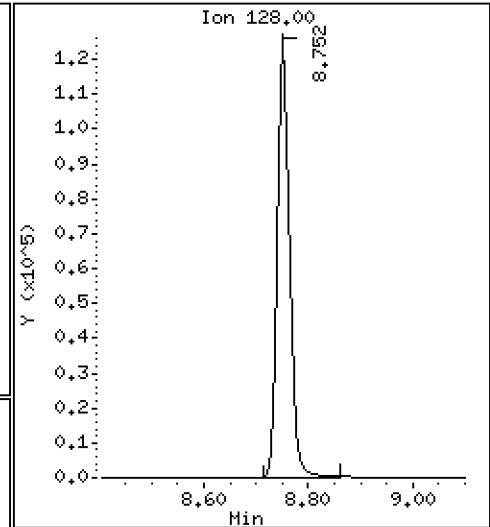
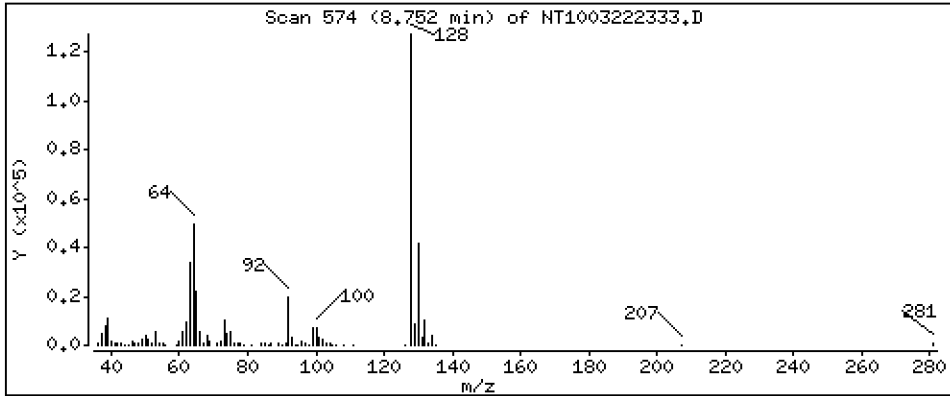
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 4,880 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

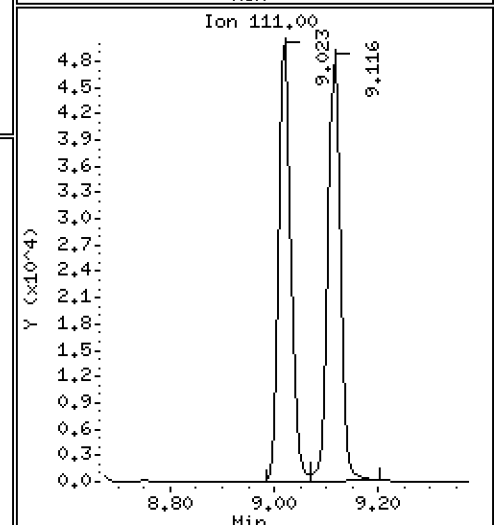
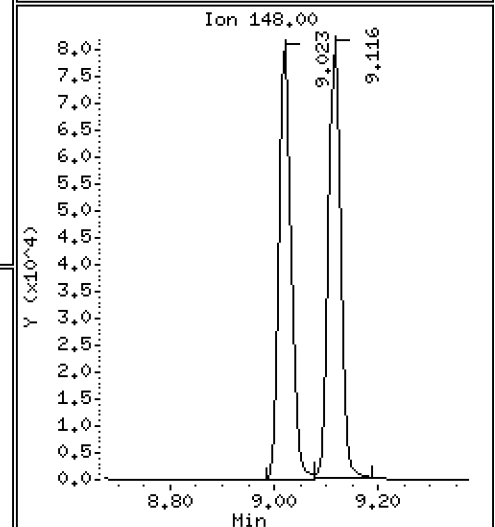
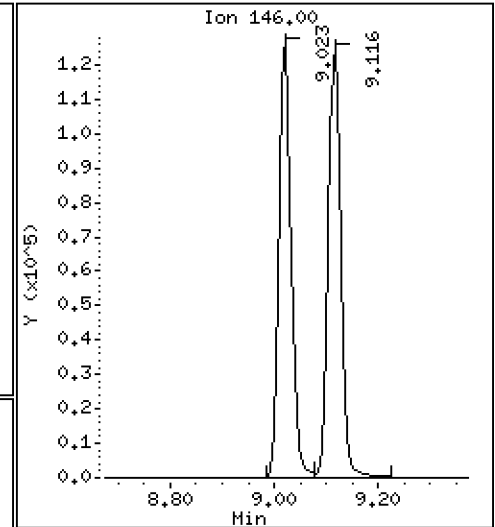
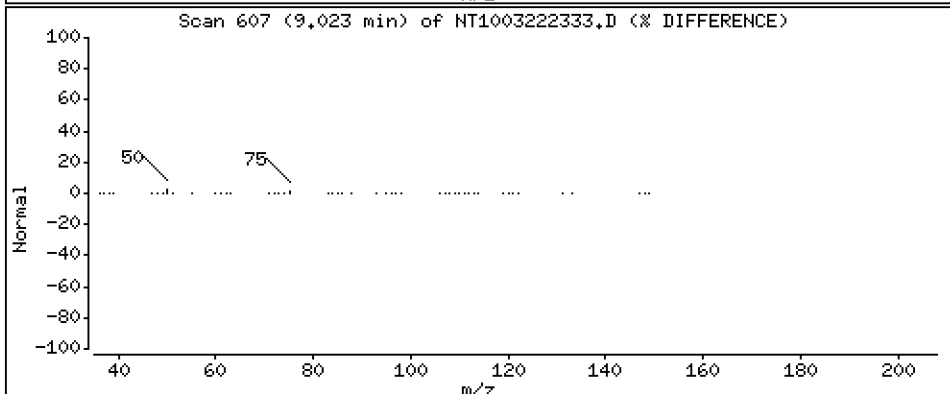
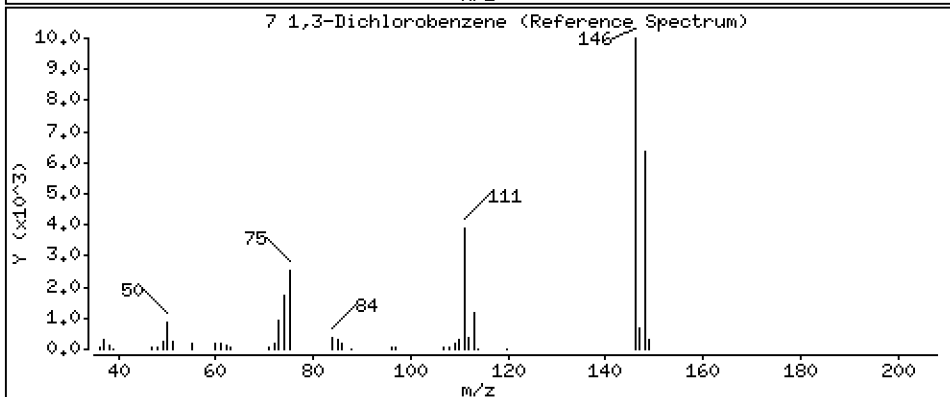
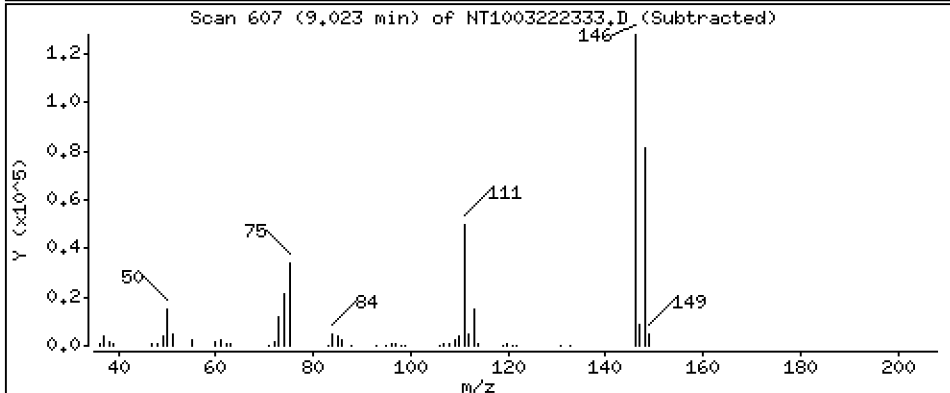
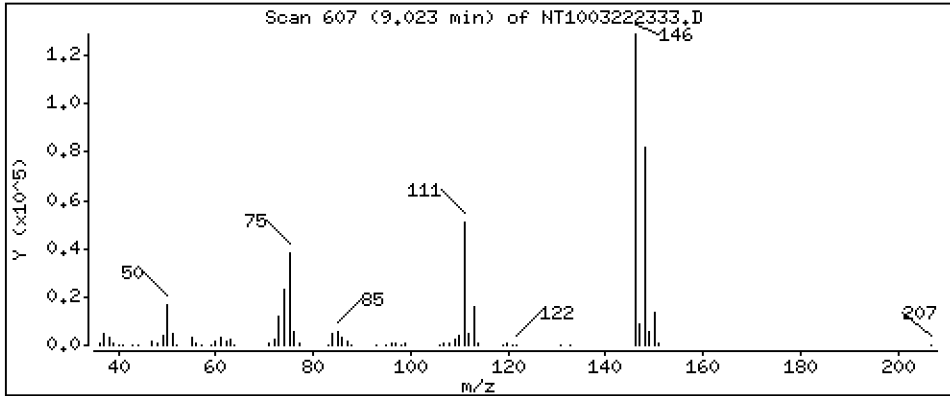
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

7 1,3-Dichlorobenzene

Concentration: 4,762 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

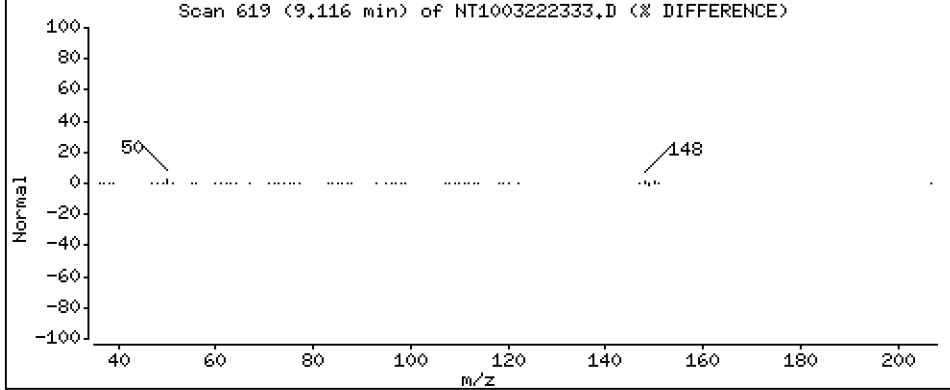
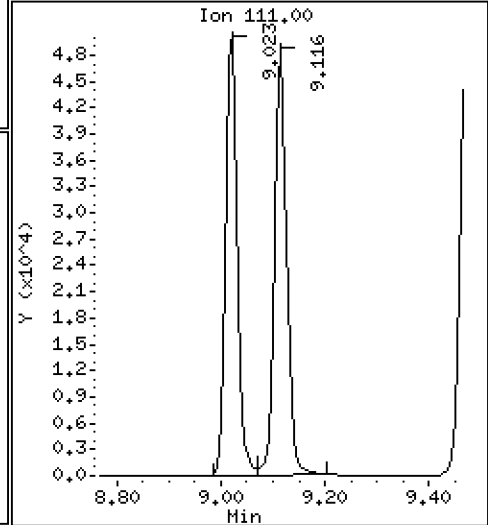
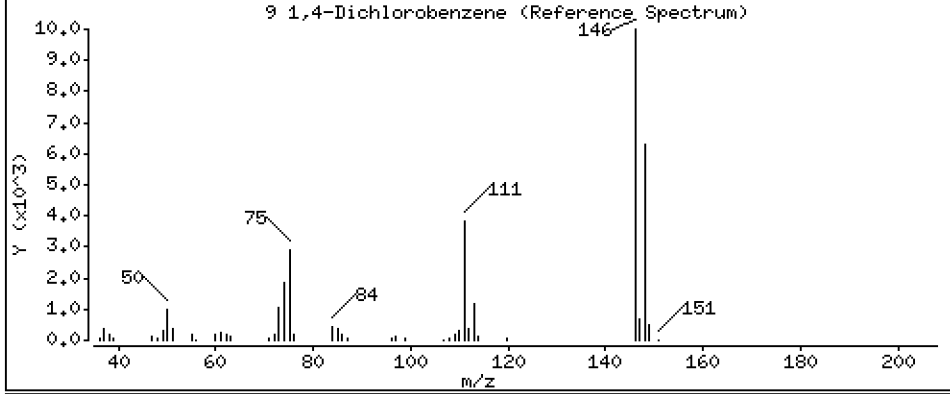
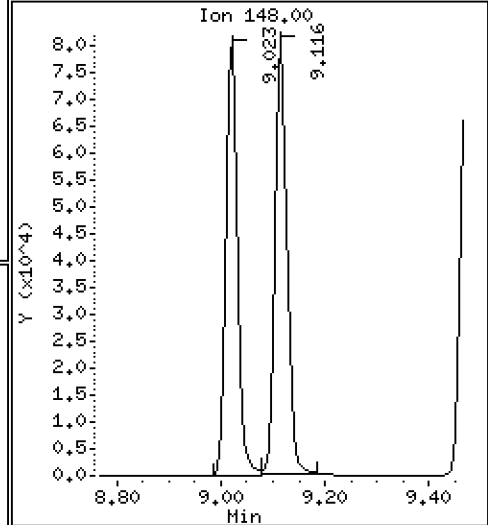
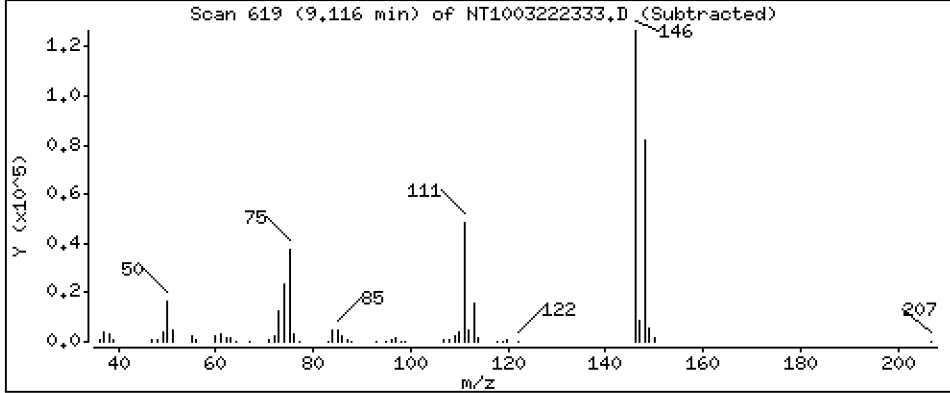
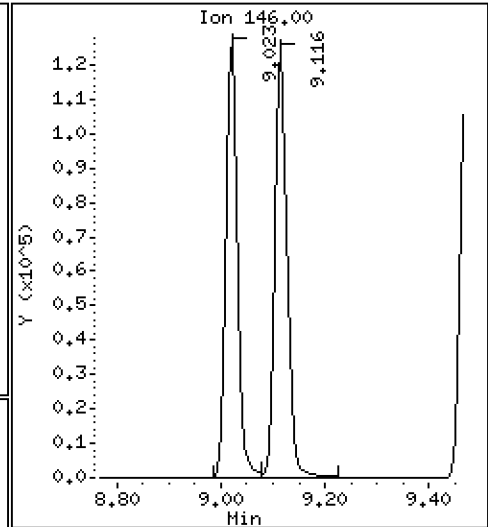
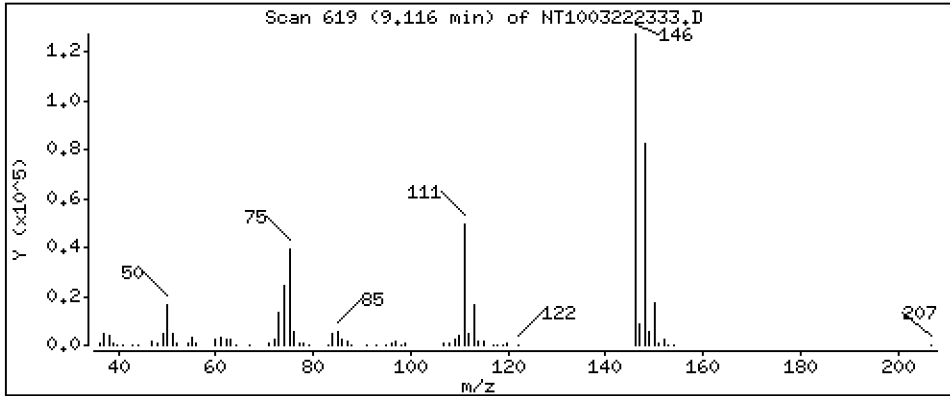
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 4,804 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

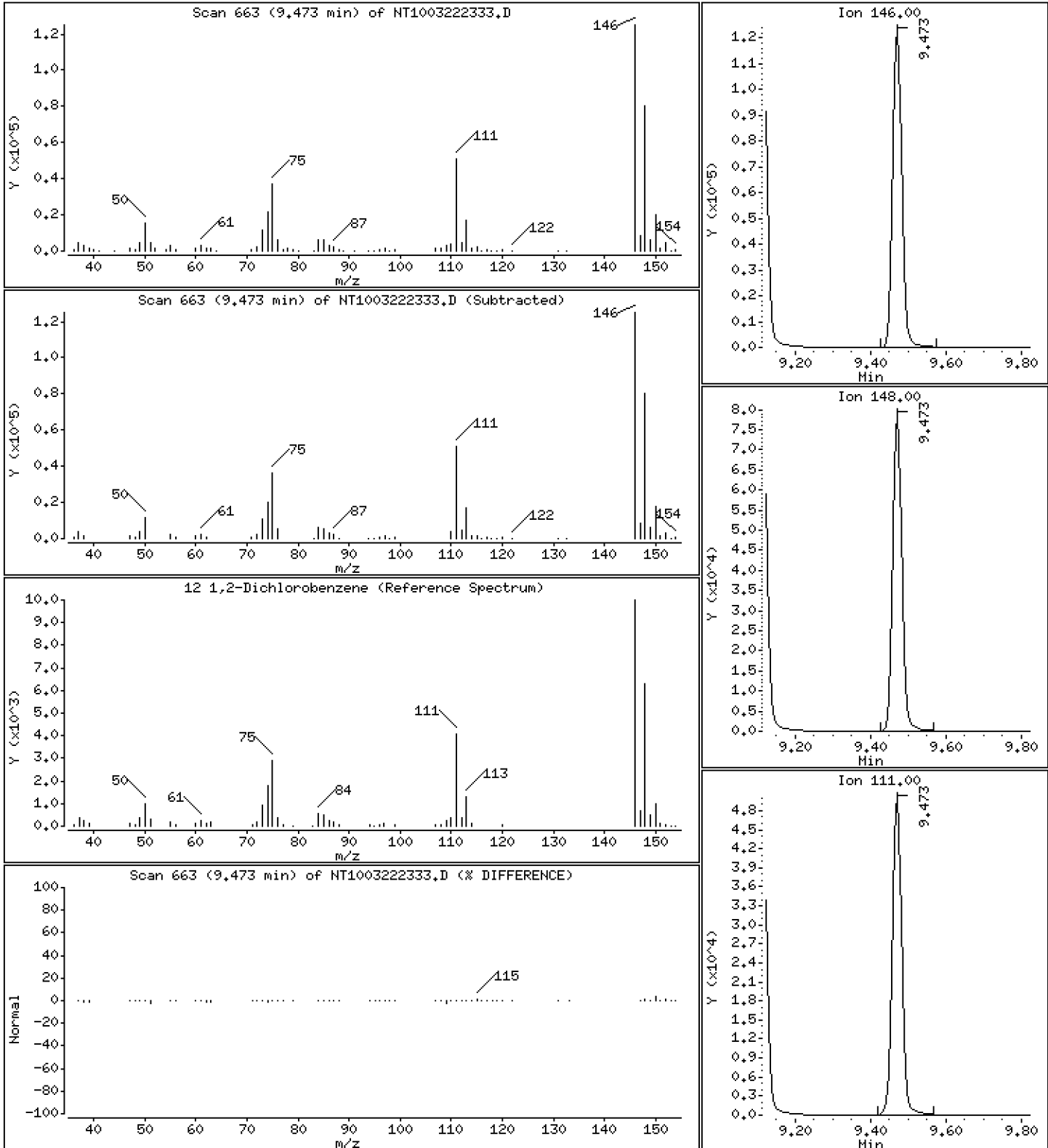
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

12 1,2-Dichlorobenzene

Concentration: 4,813 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

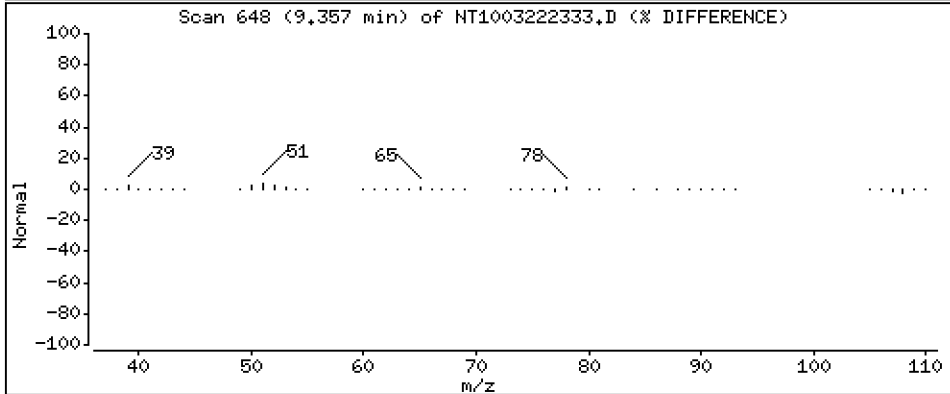
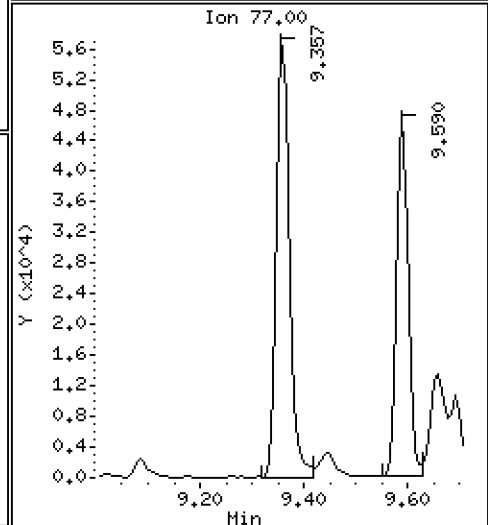
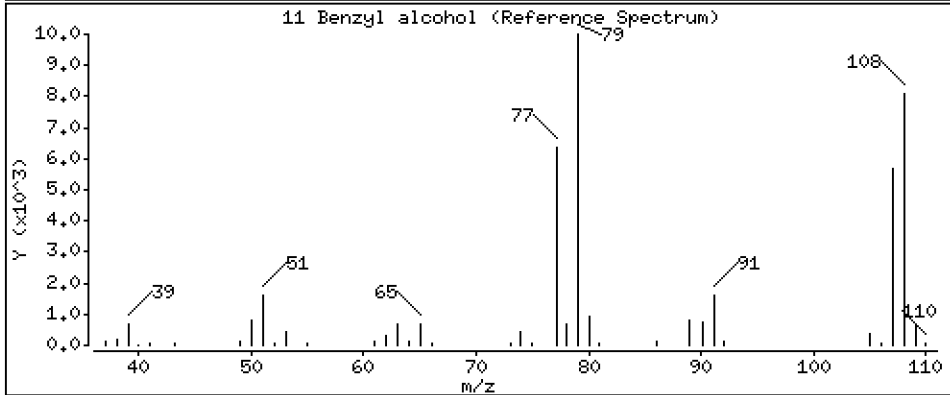
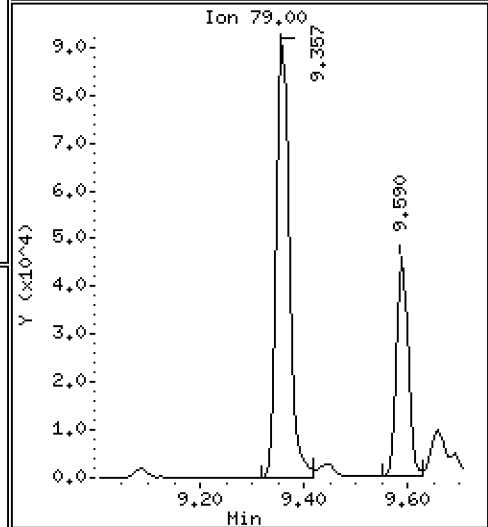
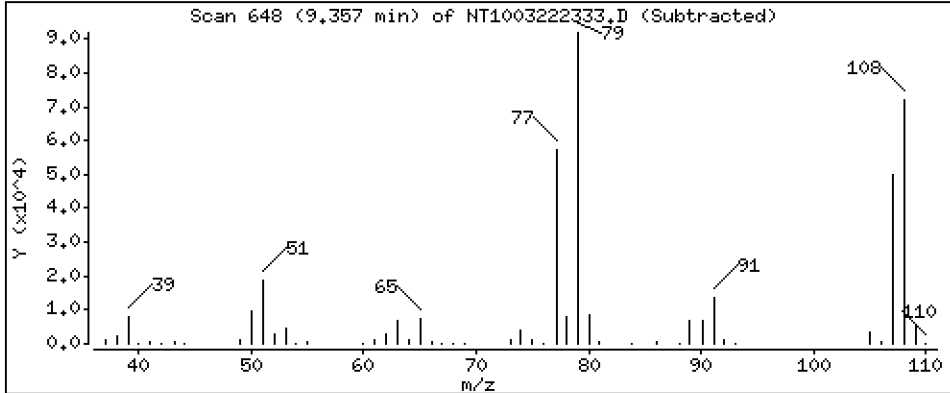
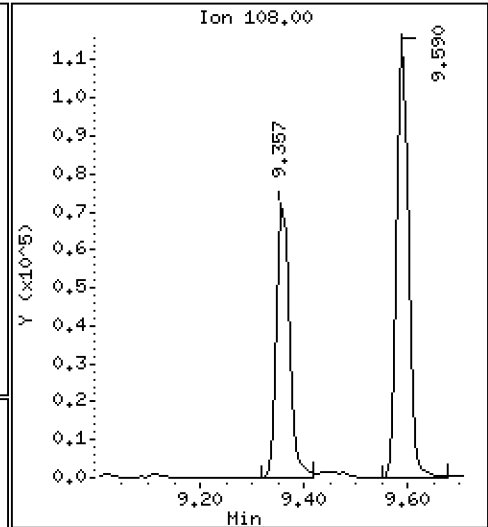
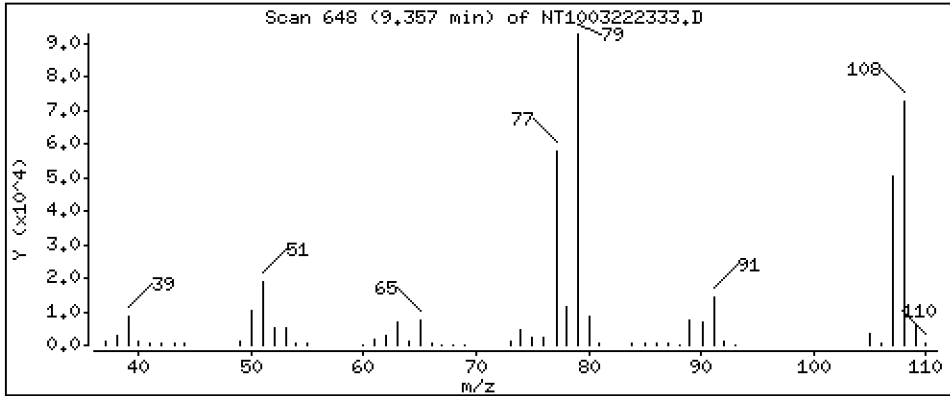
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

11 Benzyl alcohol

Concentration: 5,312 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

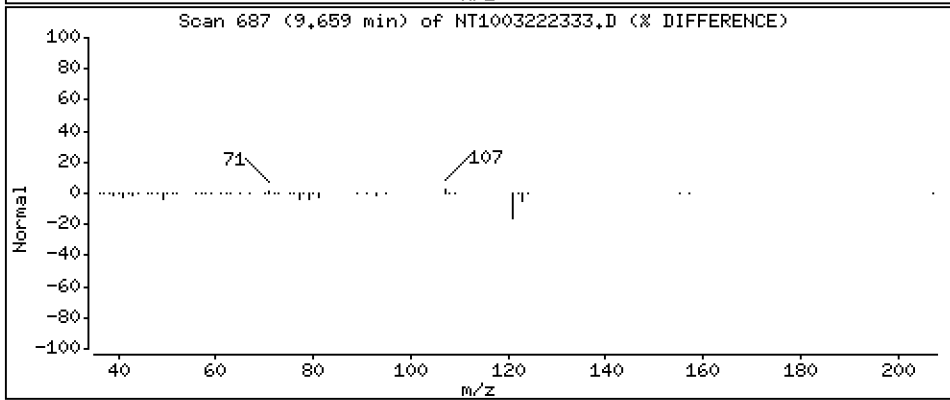
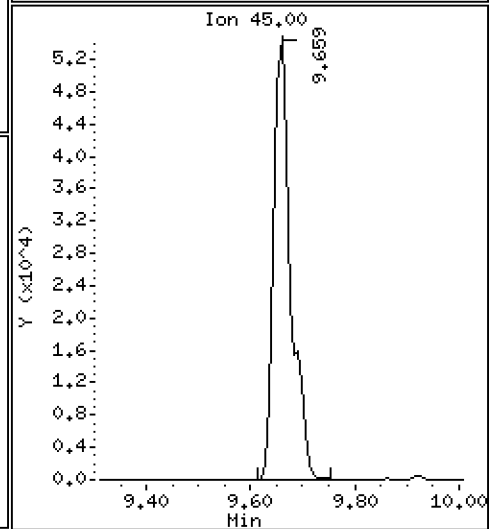
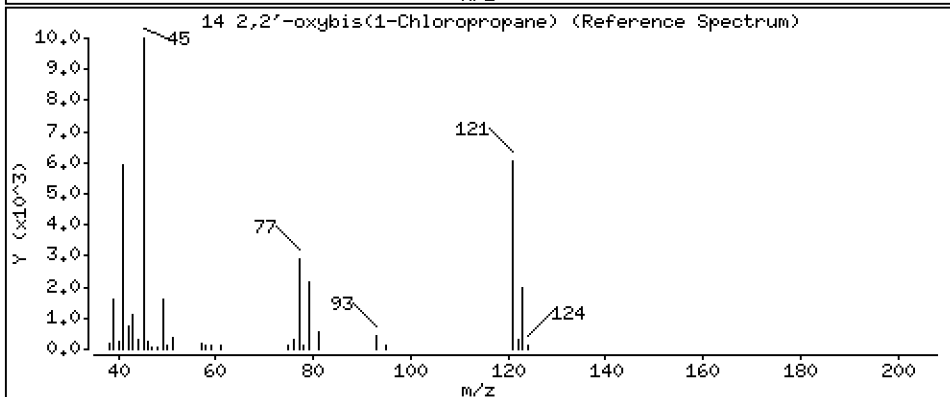
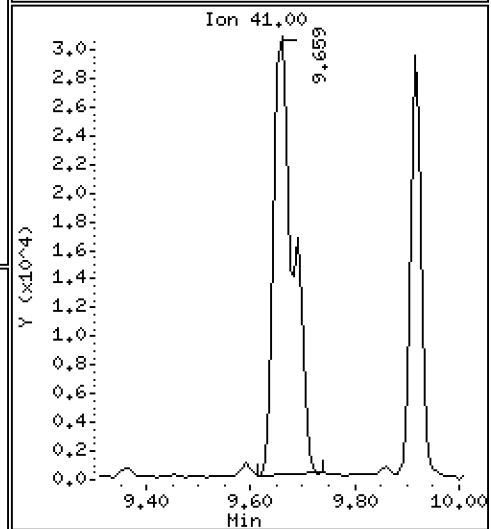
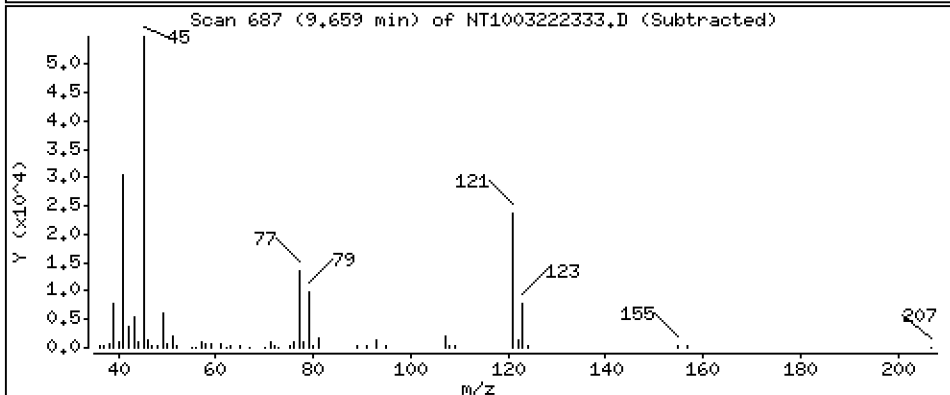
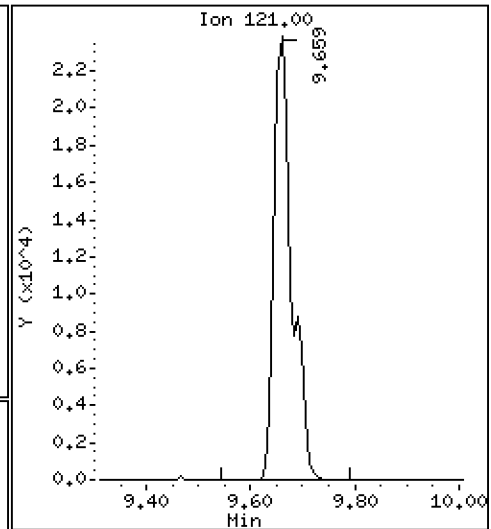
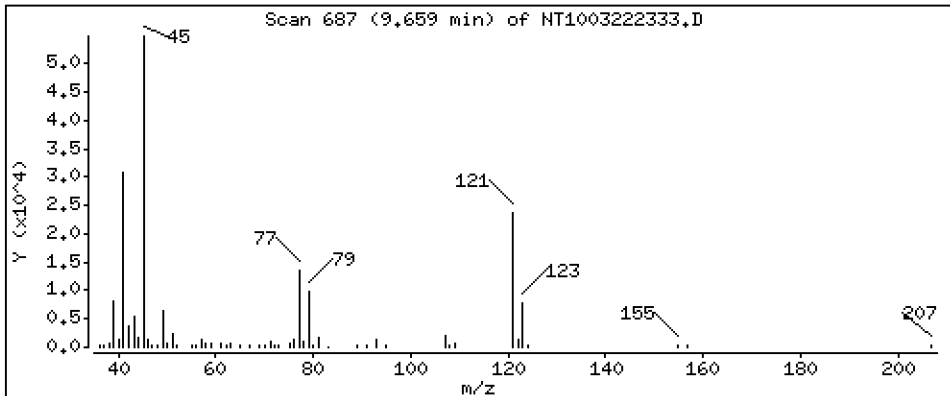
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 4,630 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

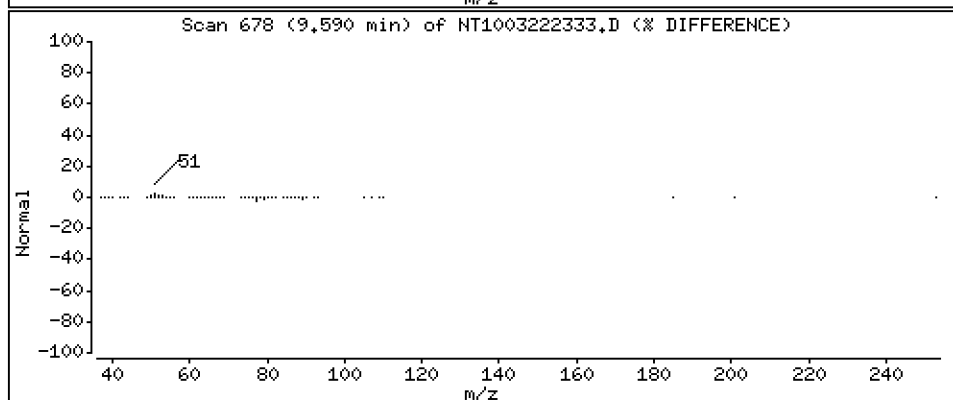
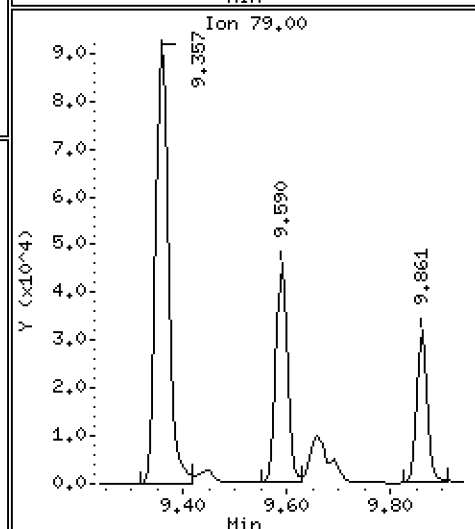
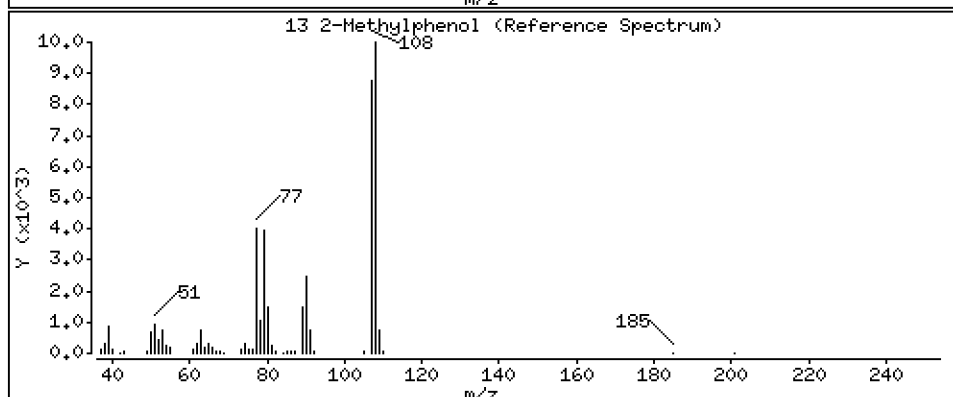
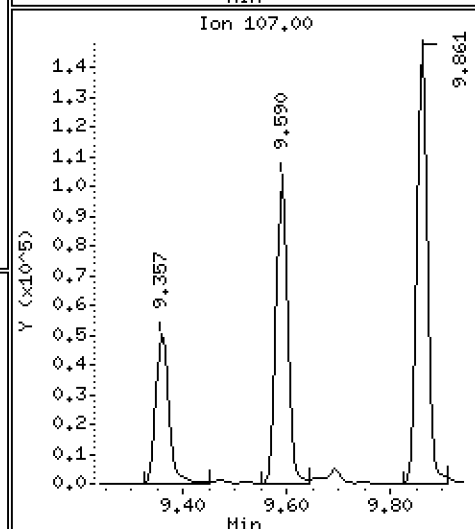
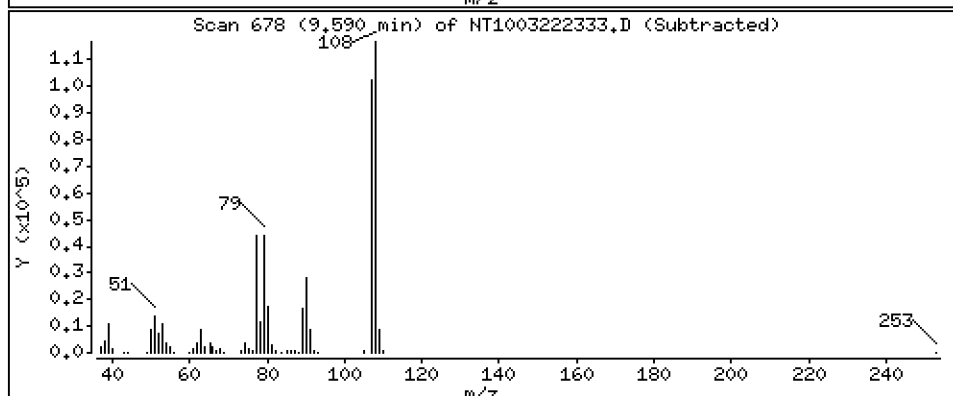
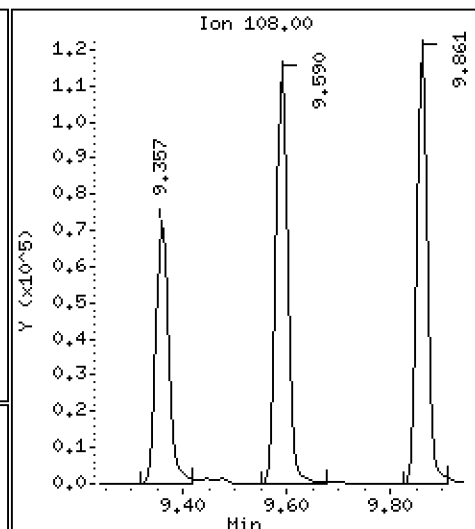
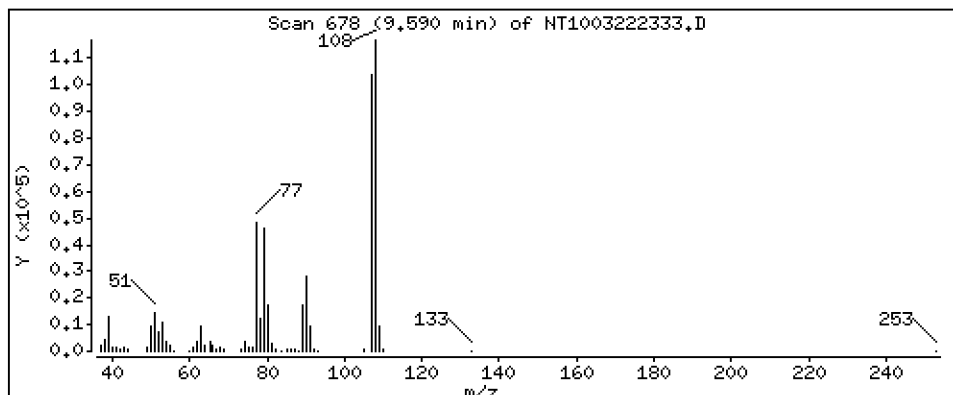
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

13 2-Methylphenol

Concentration: 4,899 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

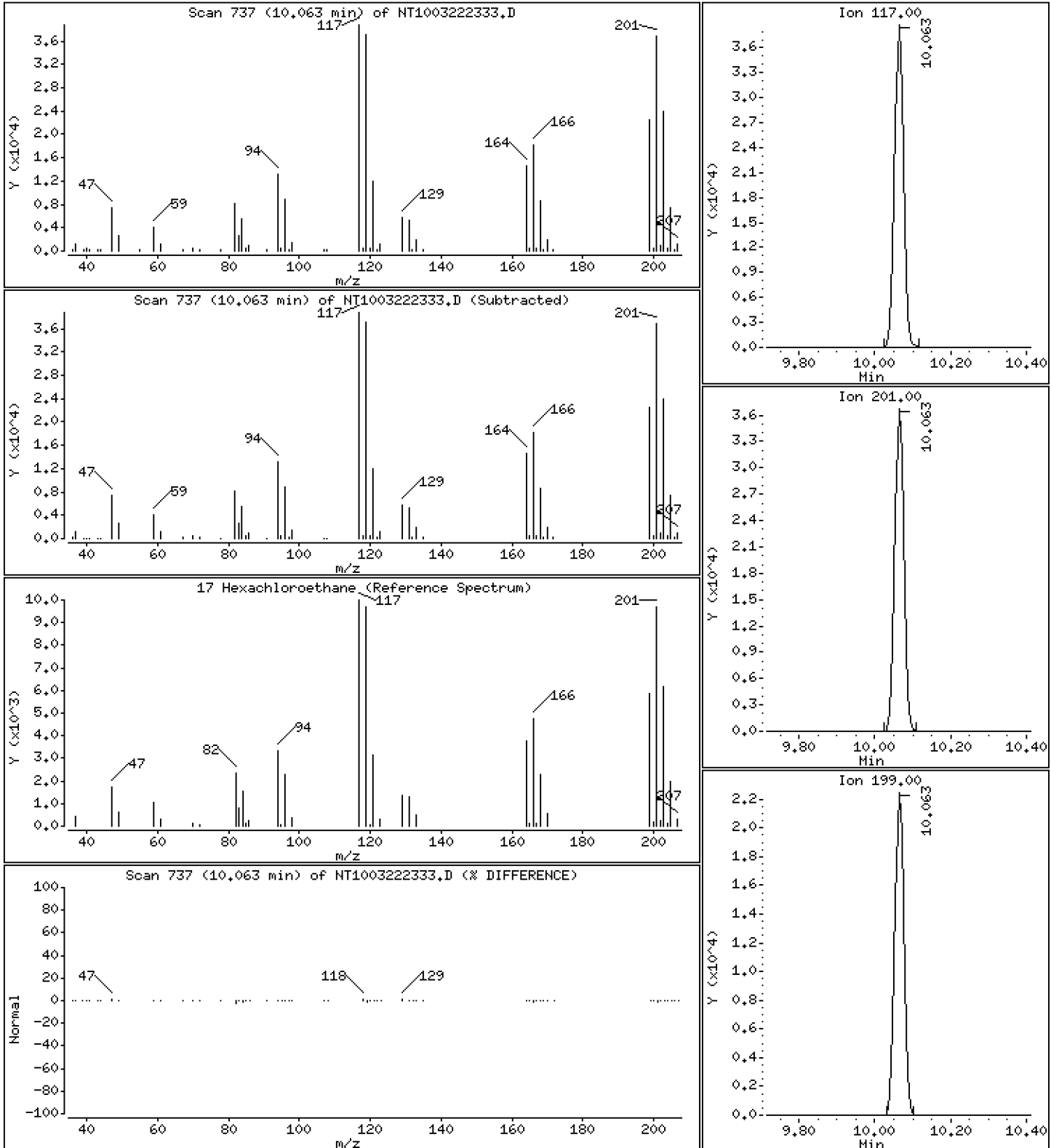
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

17 Hexachloroethane

Concentration: 3,553 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

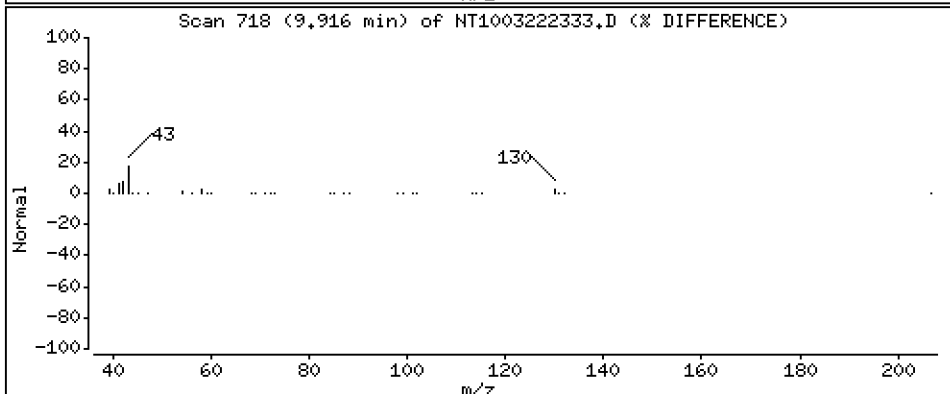
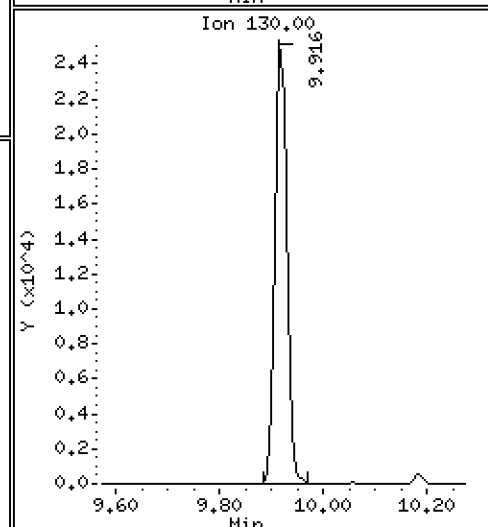
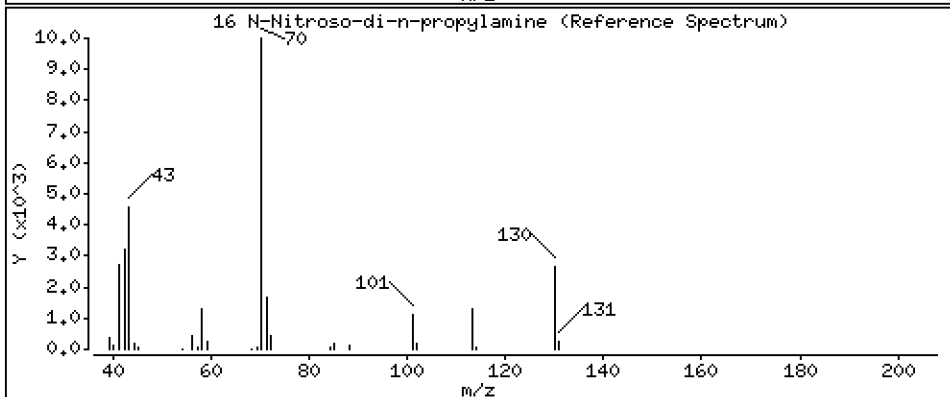
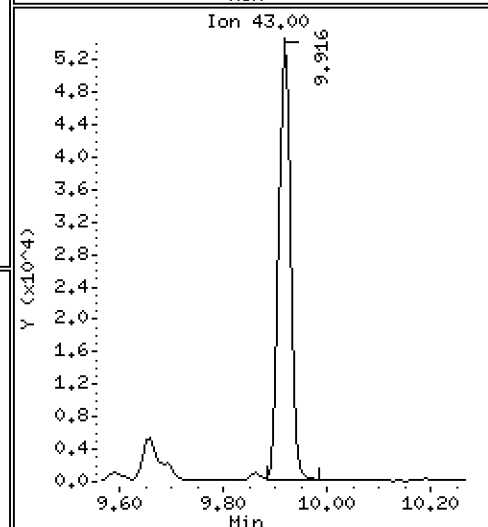
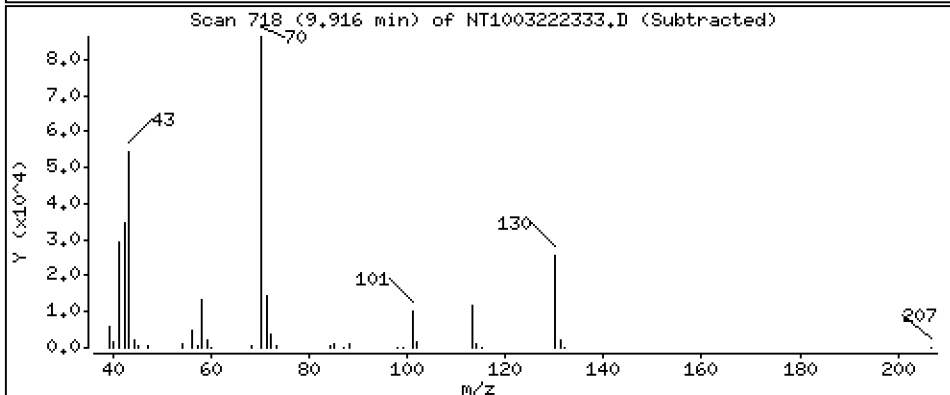
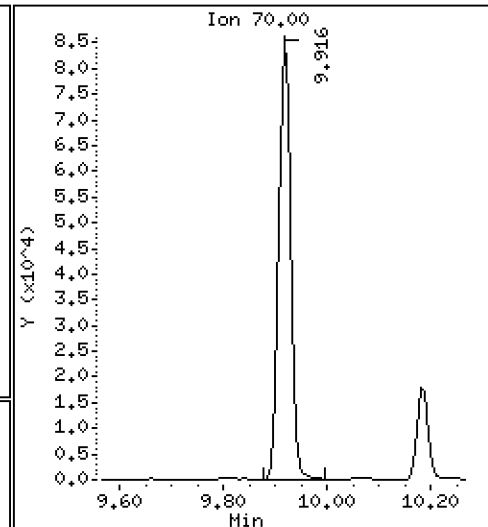
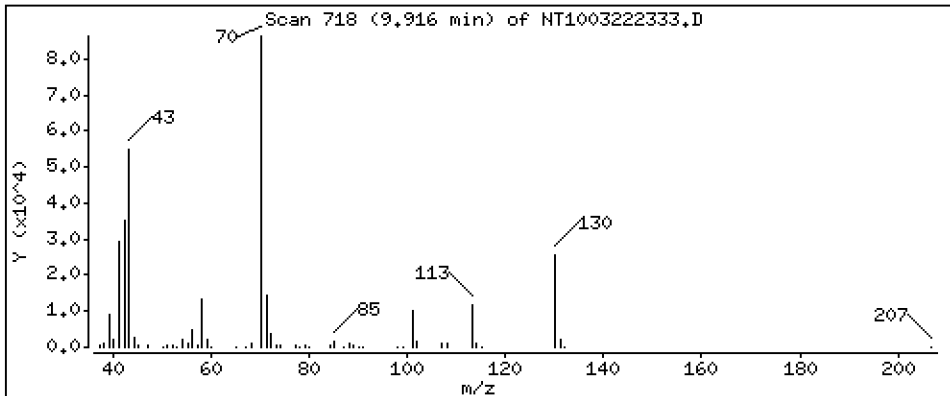
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

16 N-Nitroso-di-n-propylamine

Concentration: 4,699 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

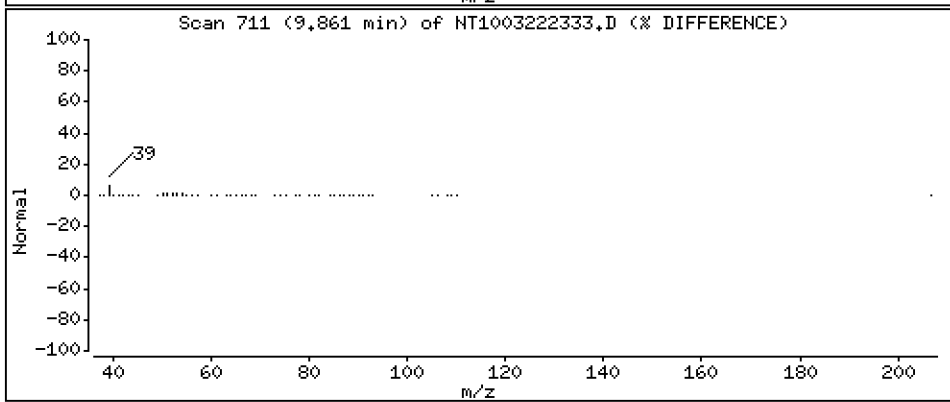
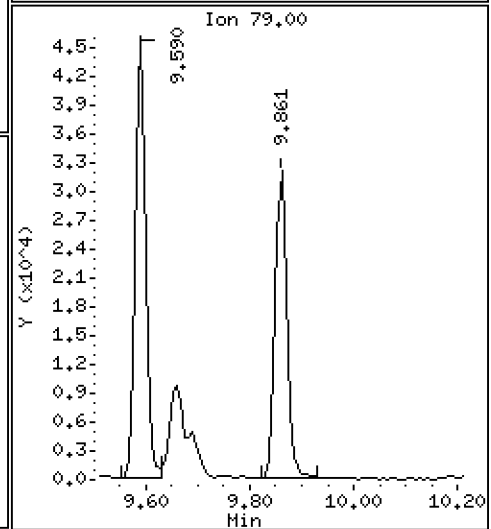
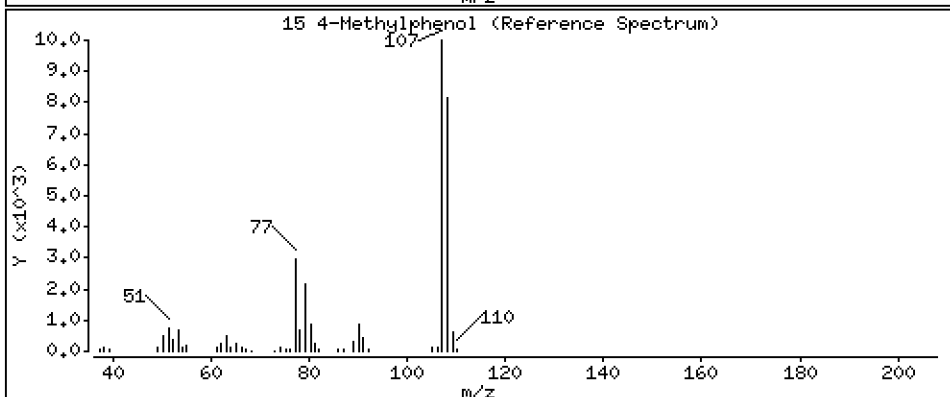
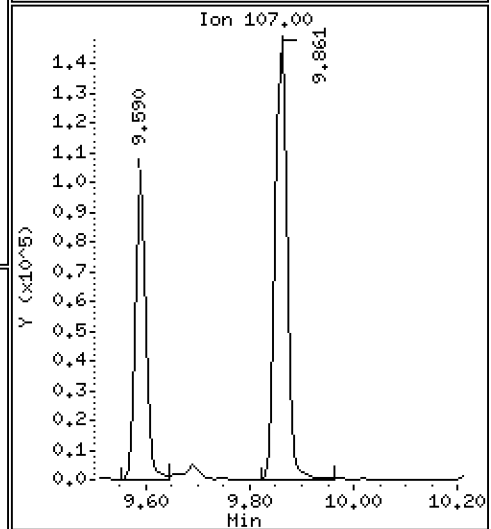
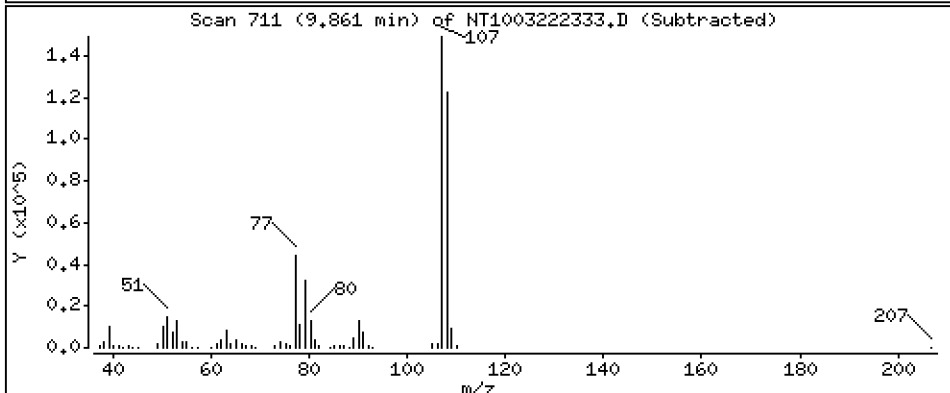
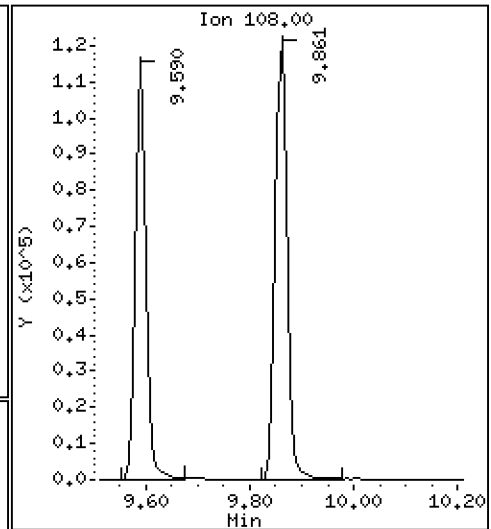
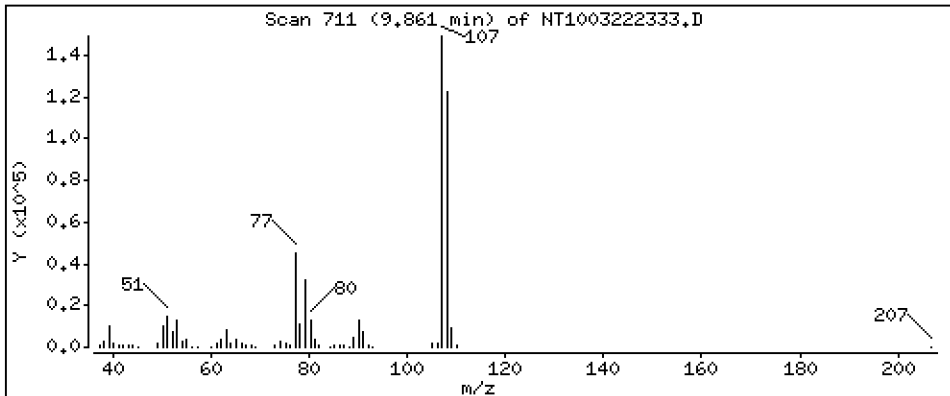
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

15 4-Methylphenol

Concentration: 5,016 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

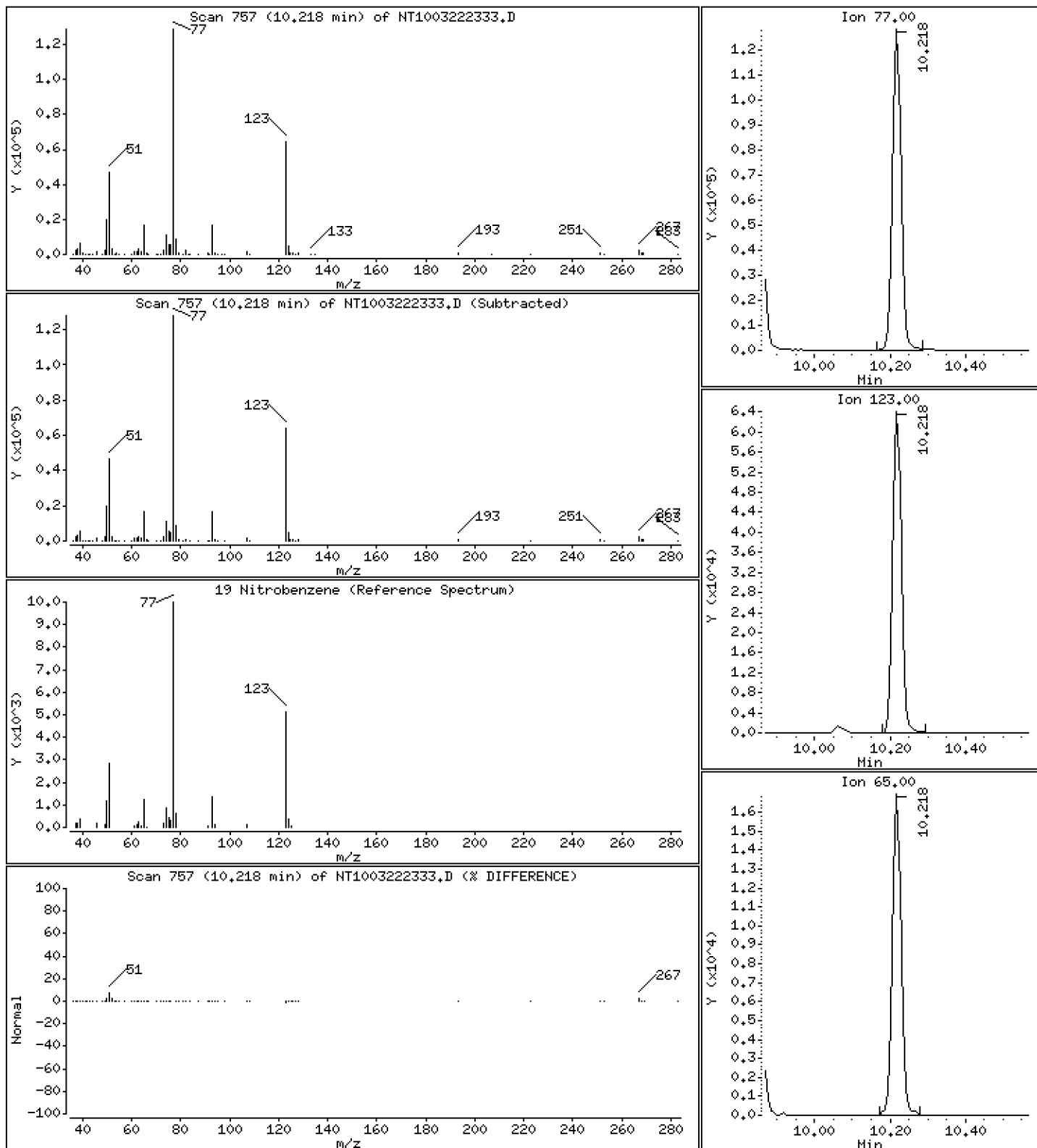
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

19 Nitrobenzene

Concentration: 4,603 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

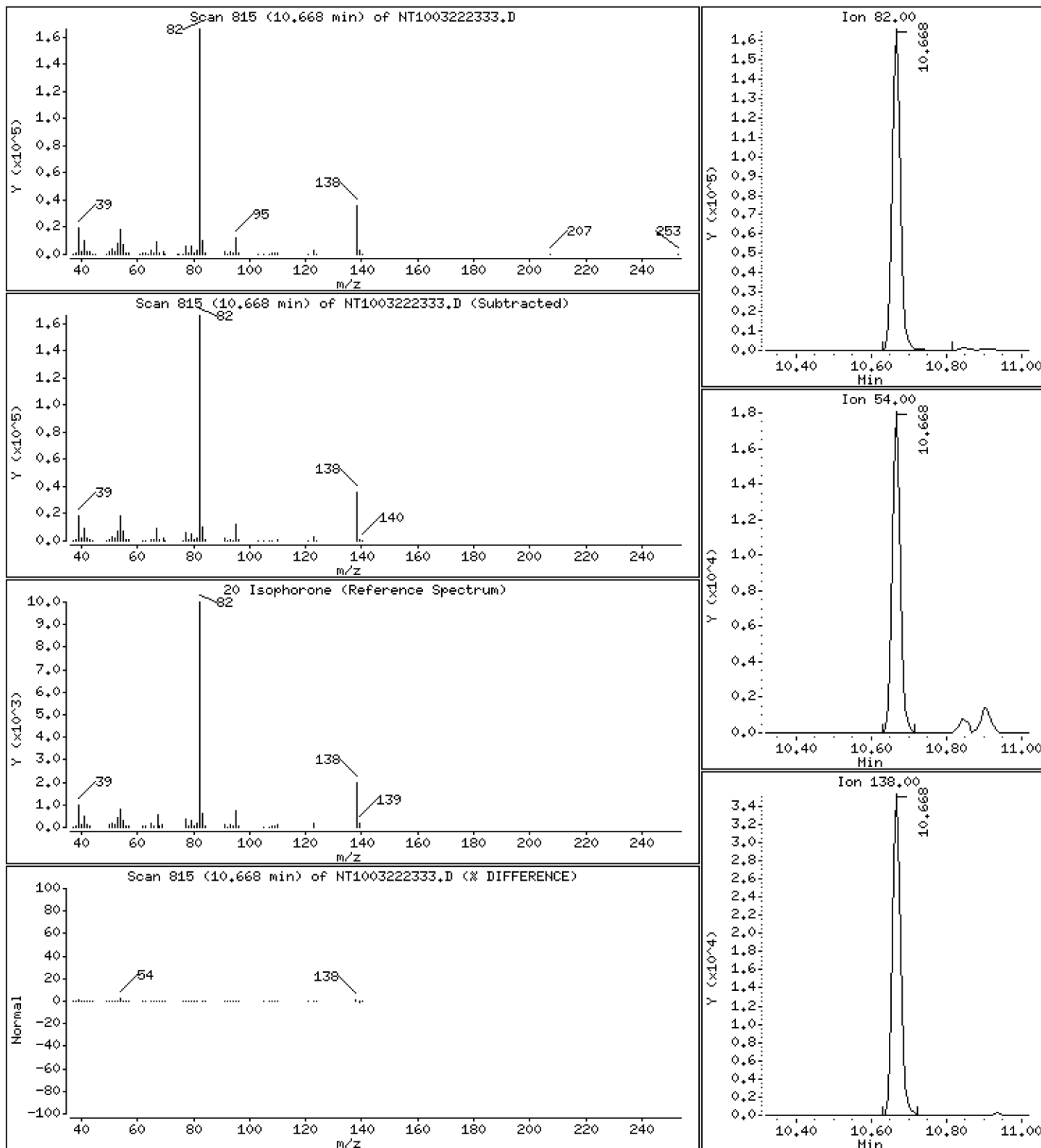
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

20 Isophorone

Concentration: 5,312 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

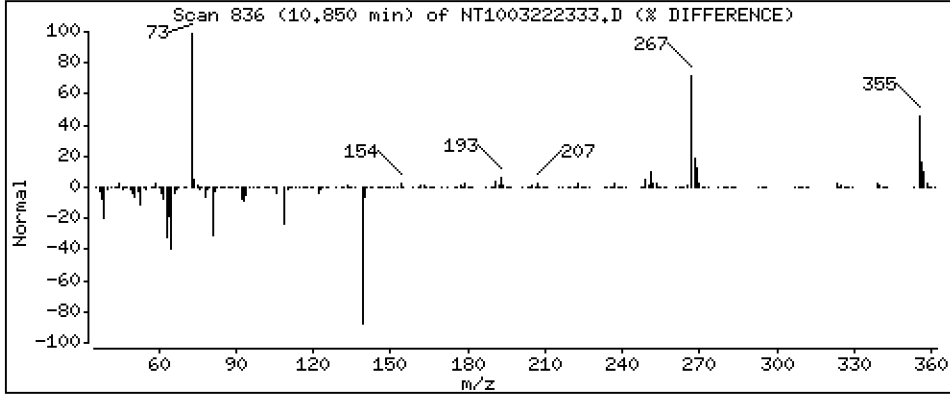
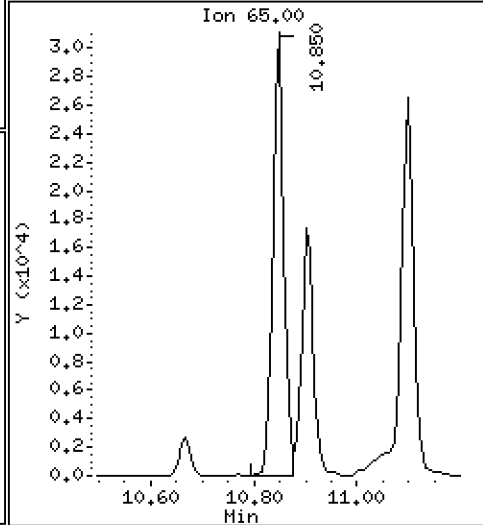
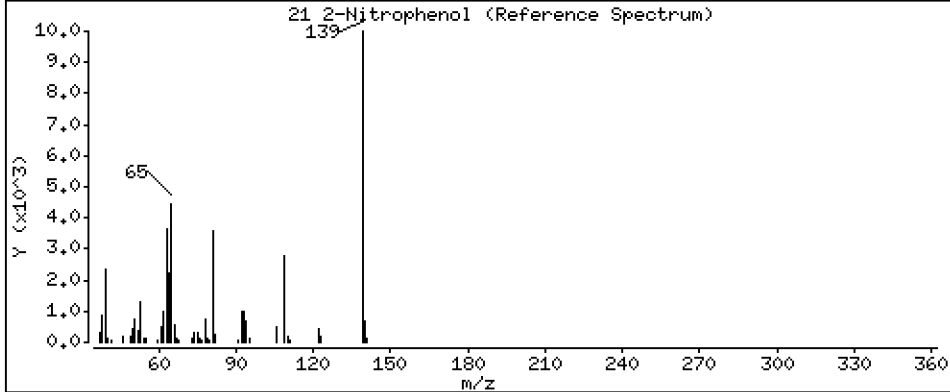
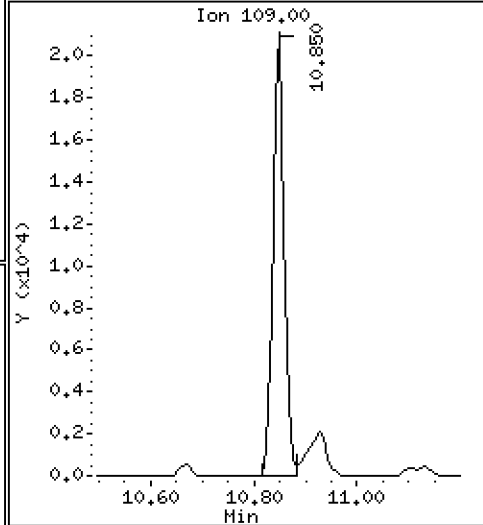
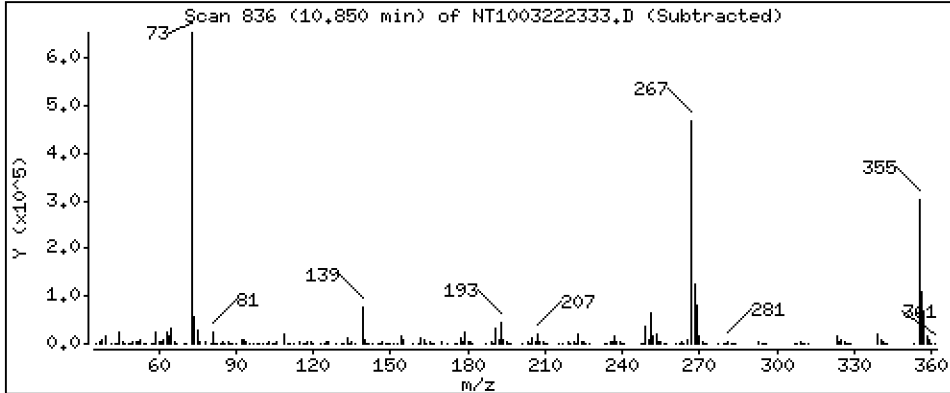
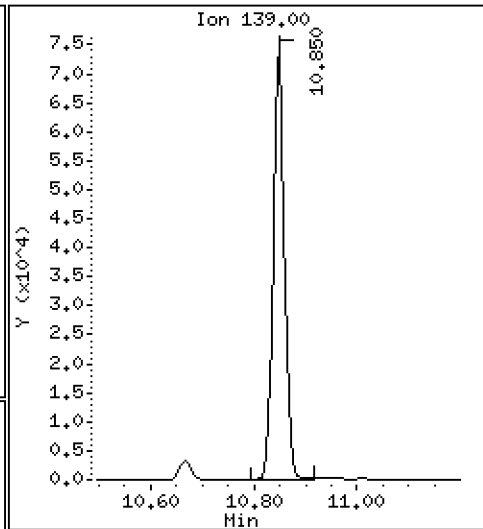
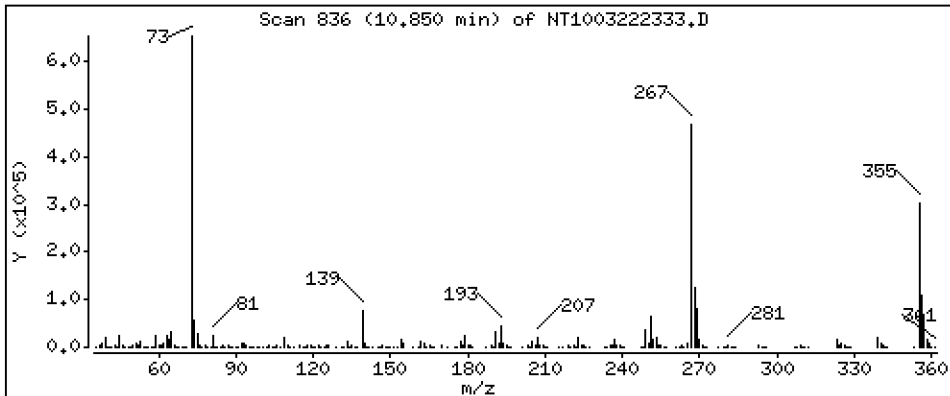
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

21 2-Nitrophenol

Concentration: 6,484 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

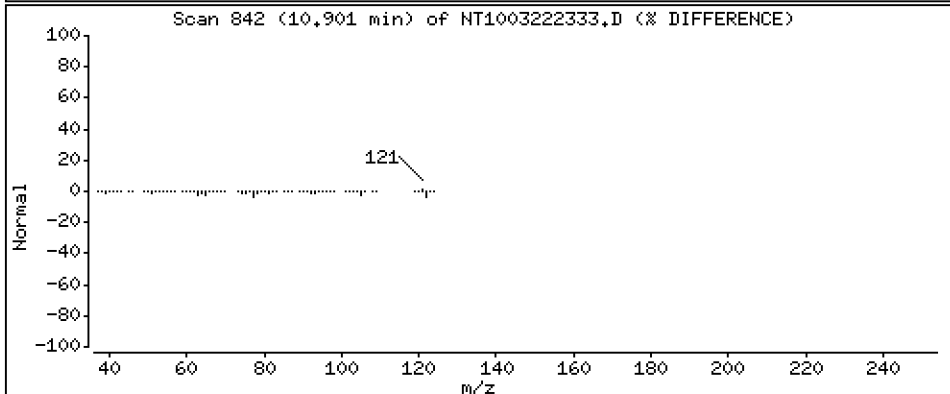
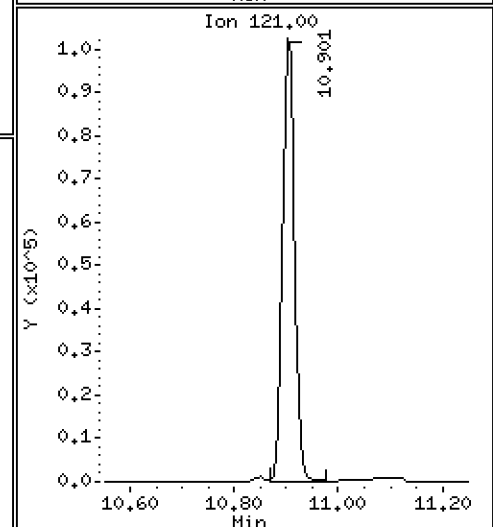
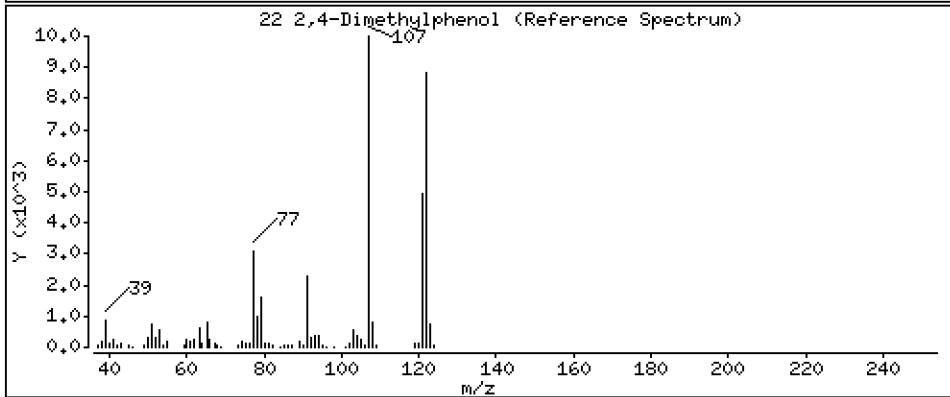
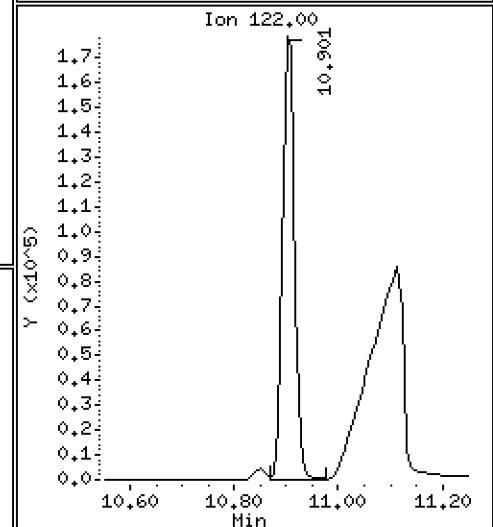
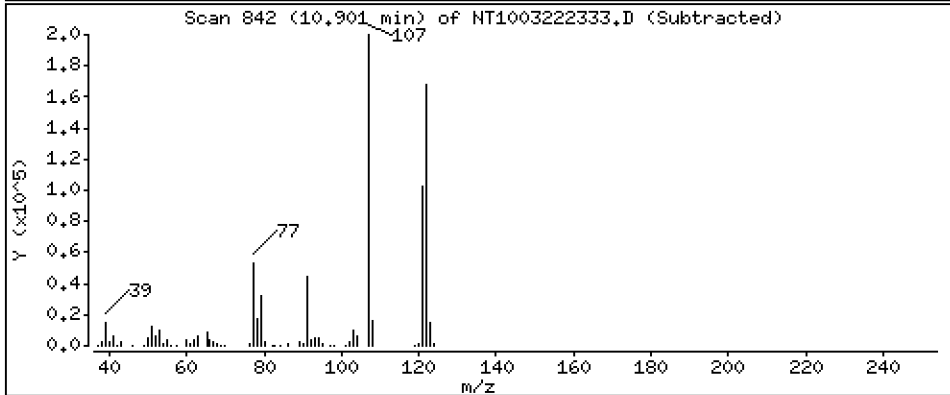
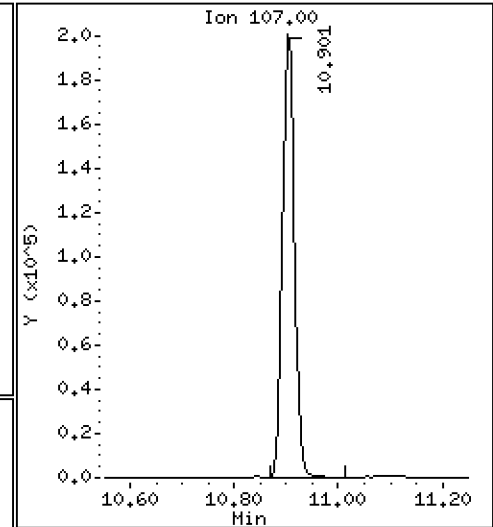
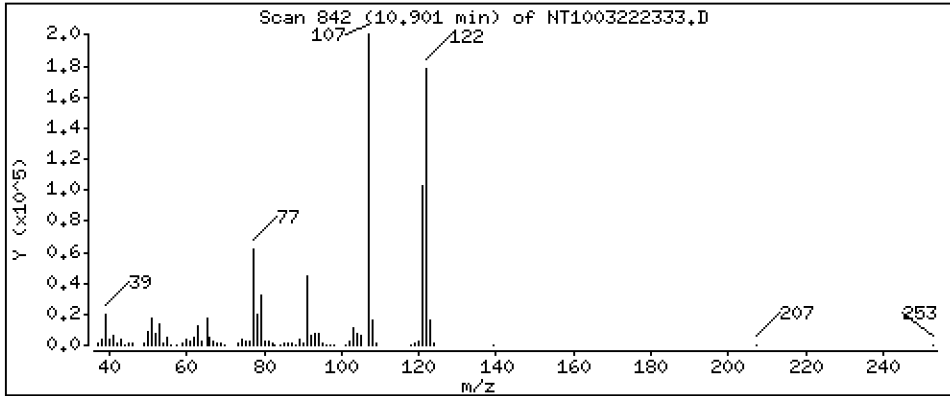
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 8,283 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

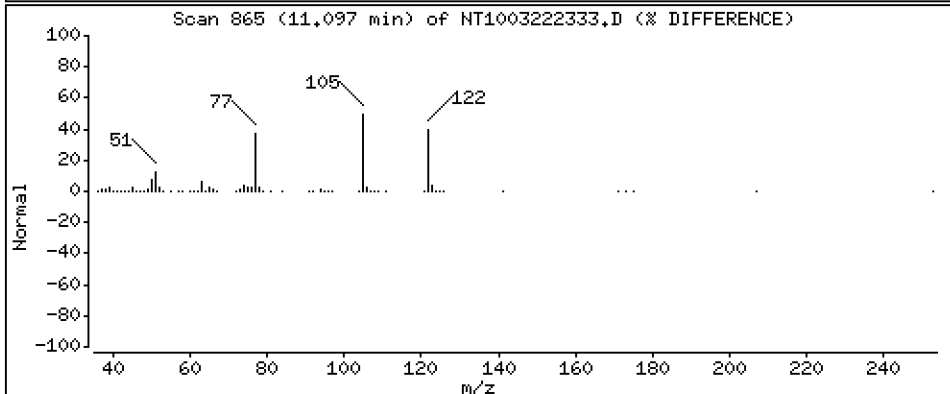
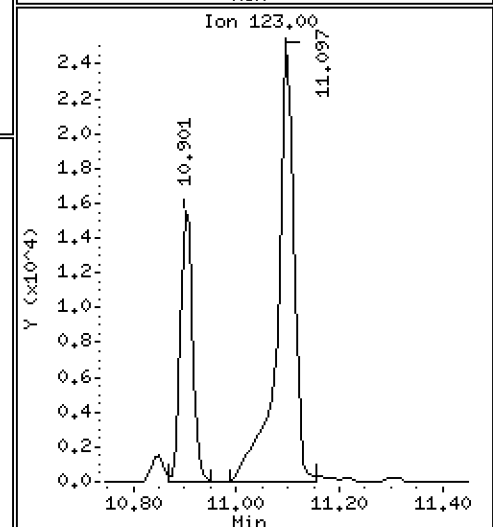
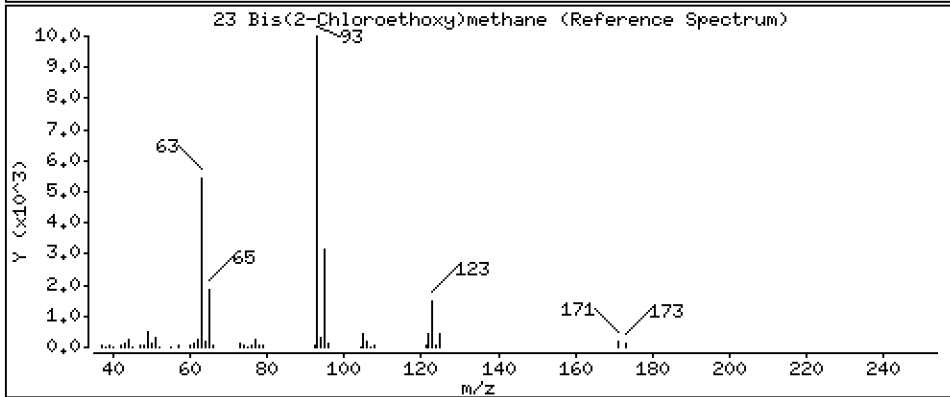
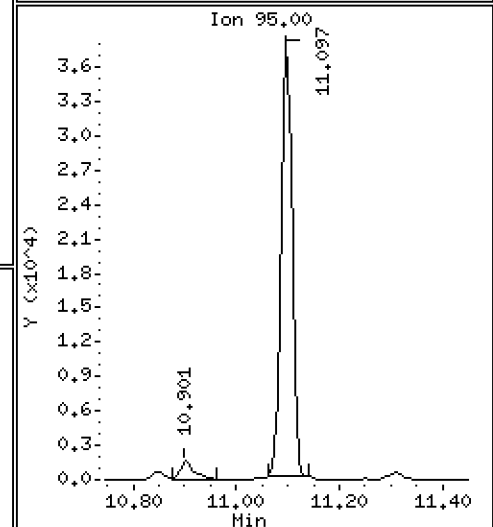
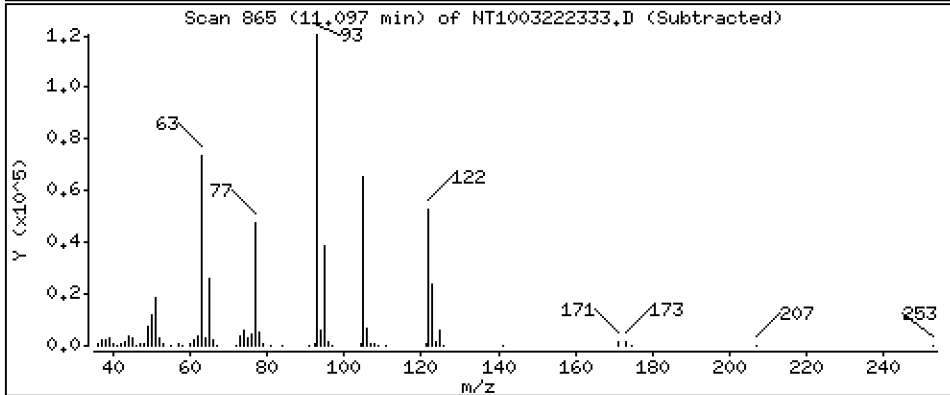
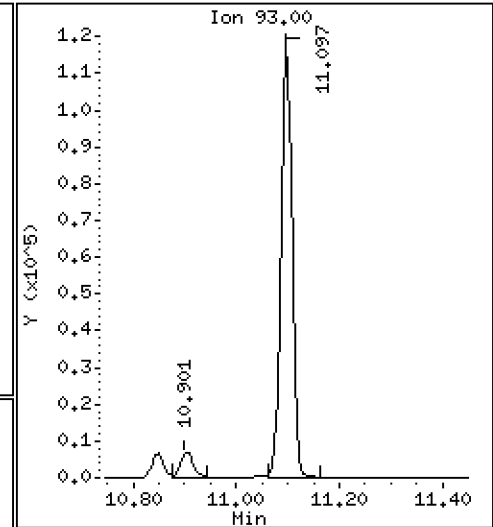
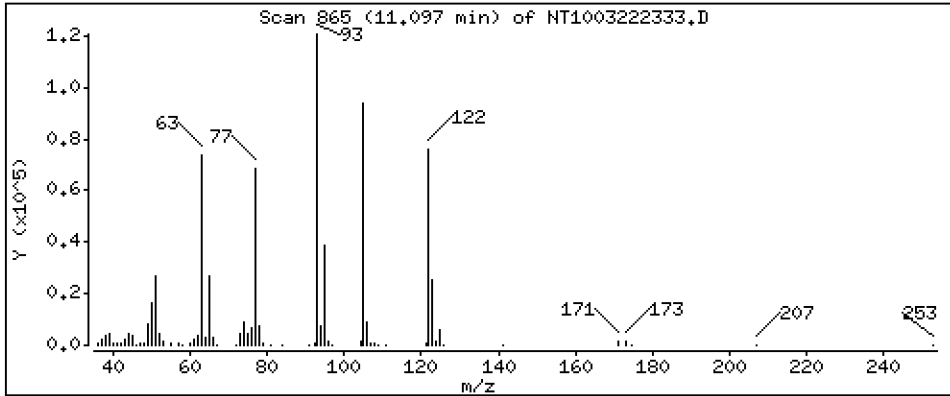
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

23 Bis(2-Chloroethoxy)methane

Concentration: 4,781 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

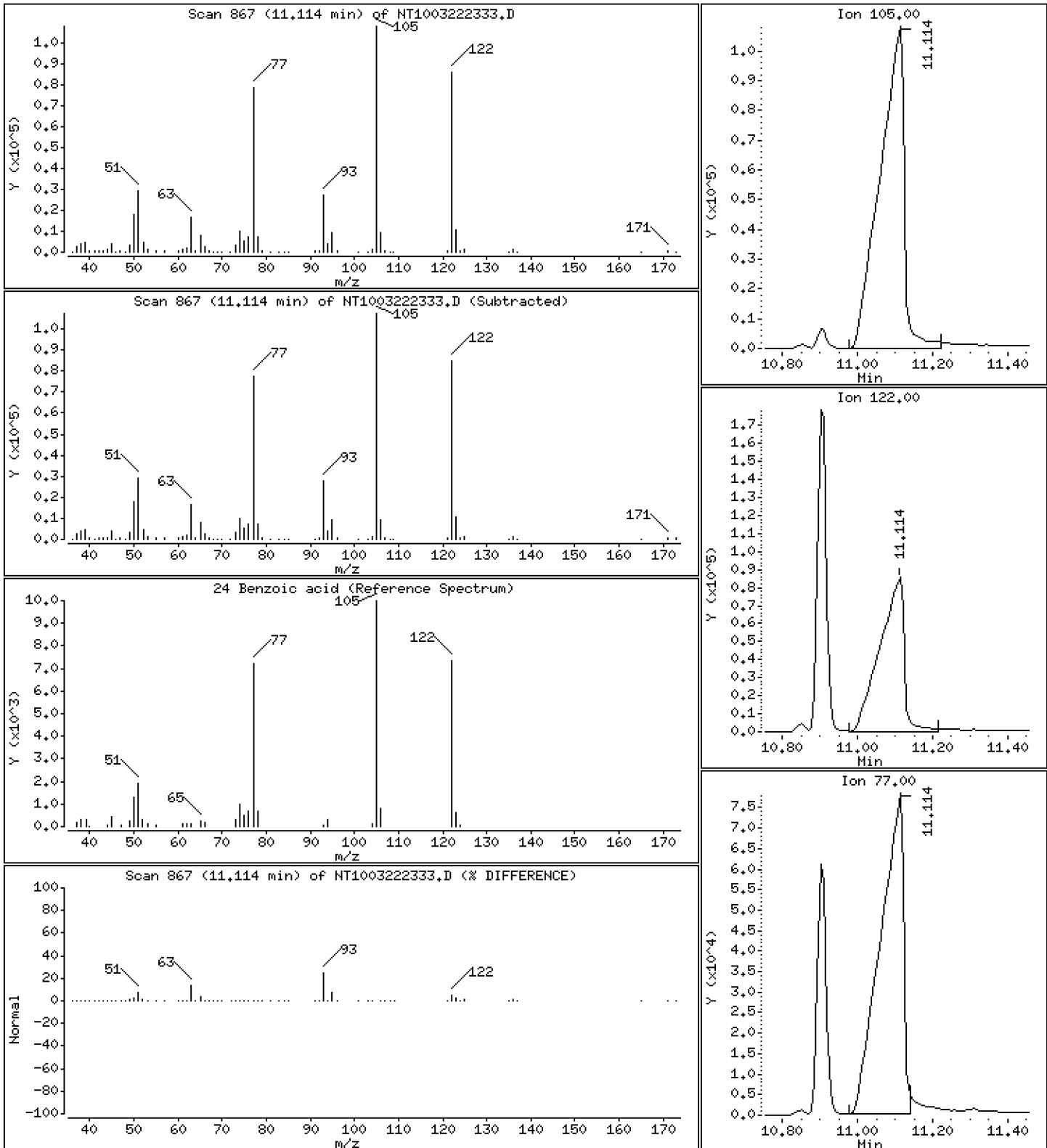
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

24 Benzoic acid

Concentration: 21,56 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

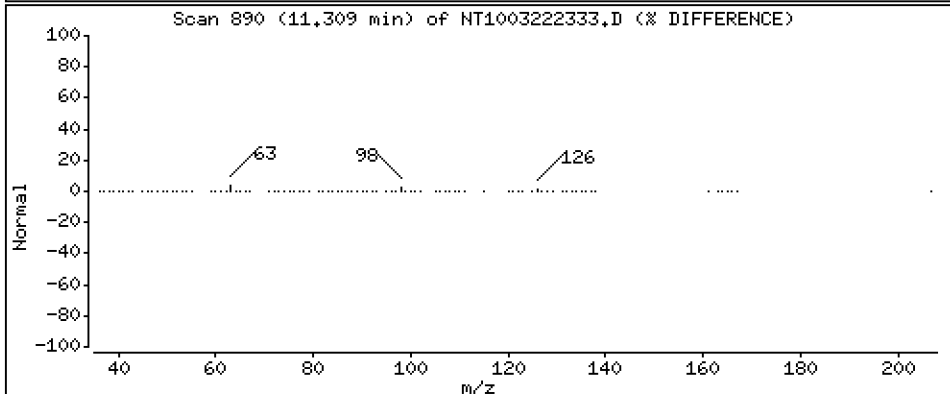
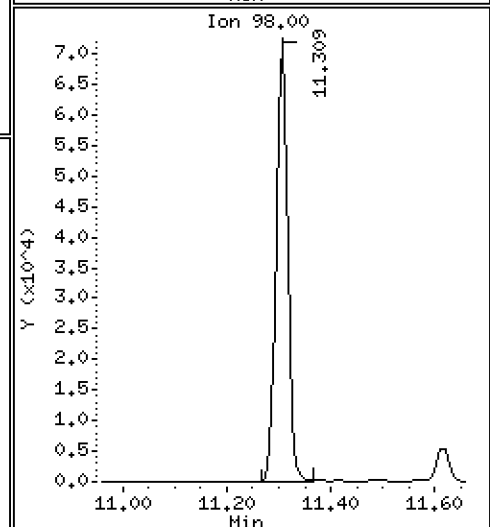
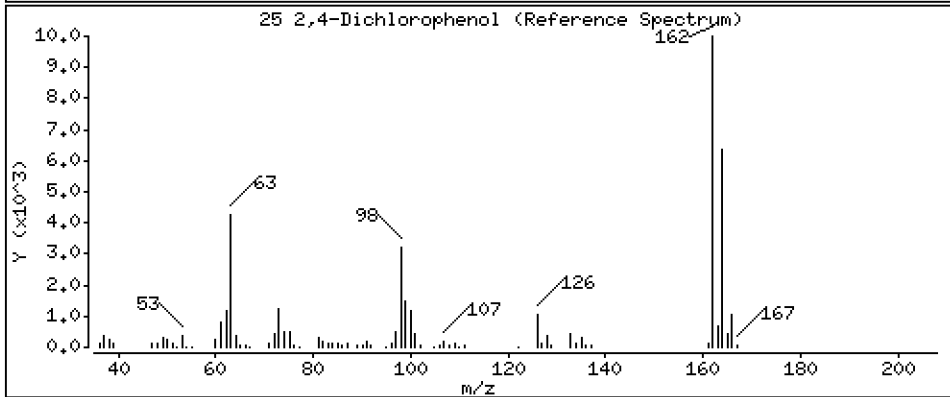
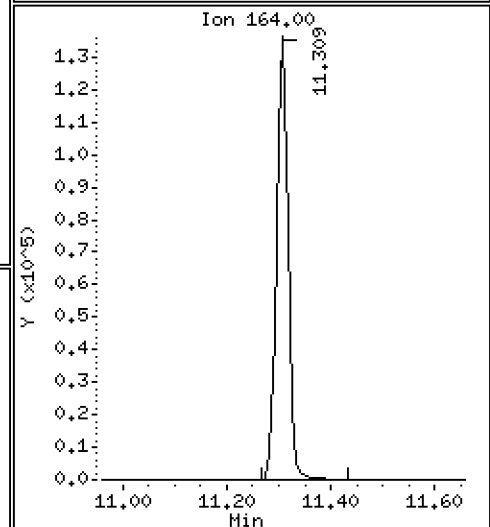
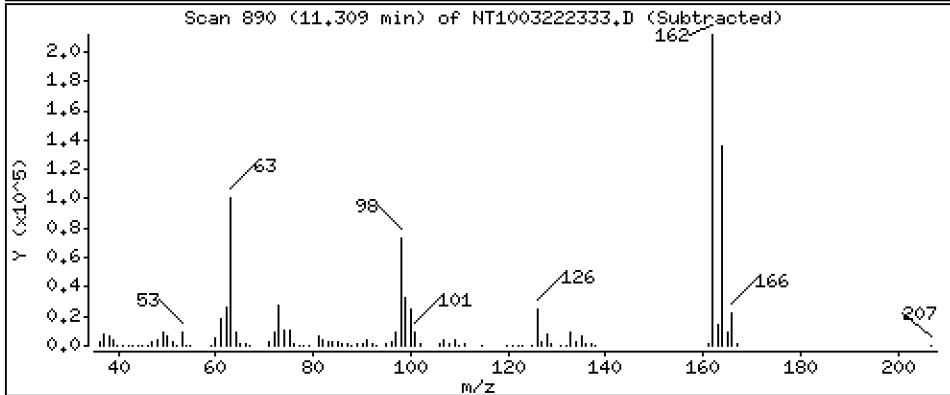
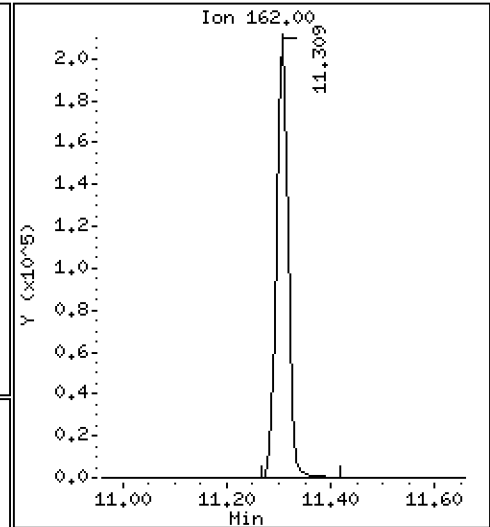
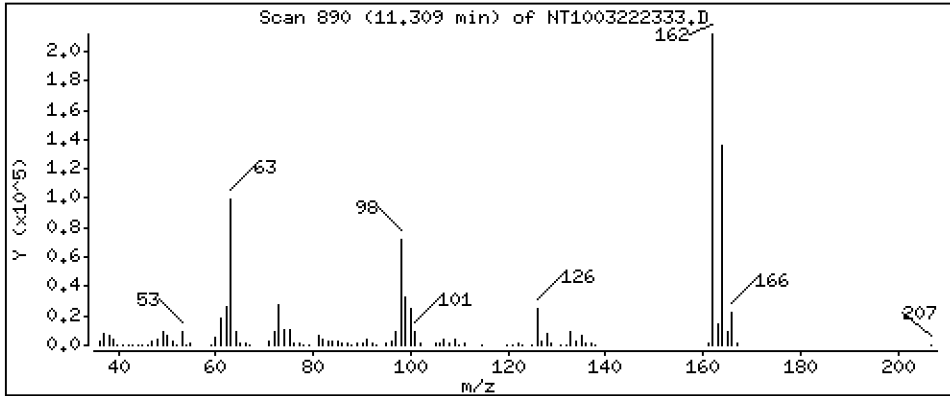
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 11,73 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

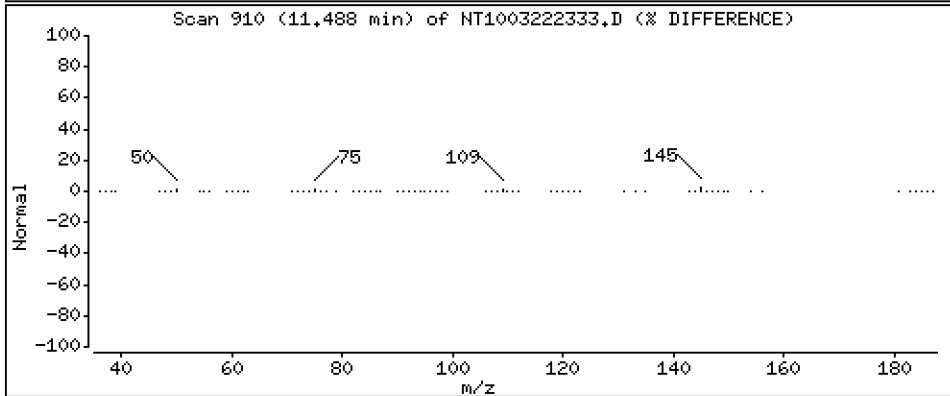
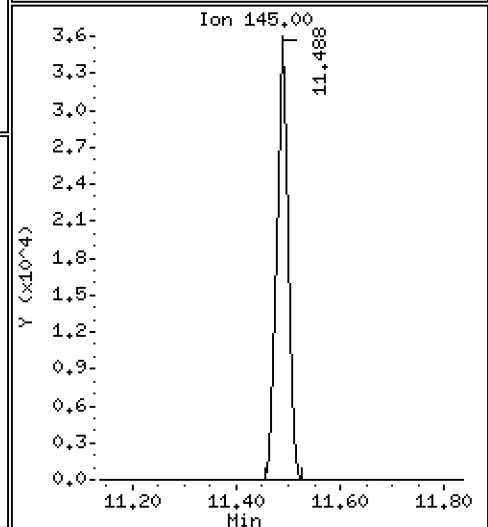
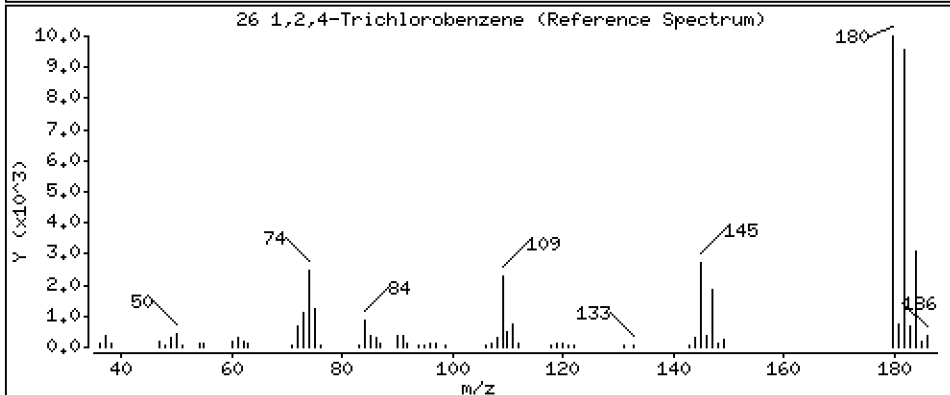
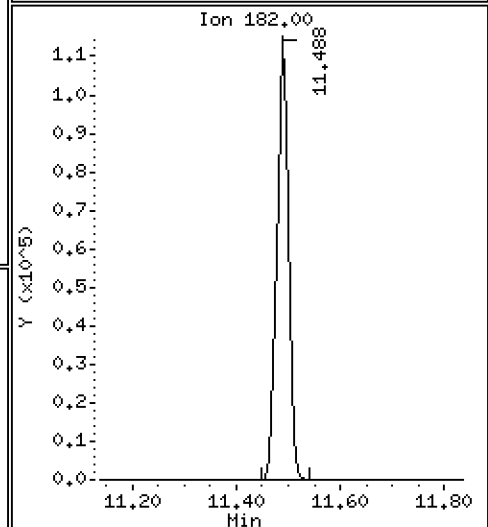
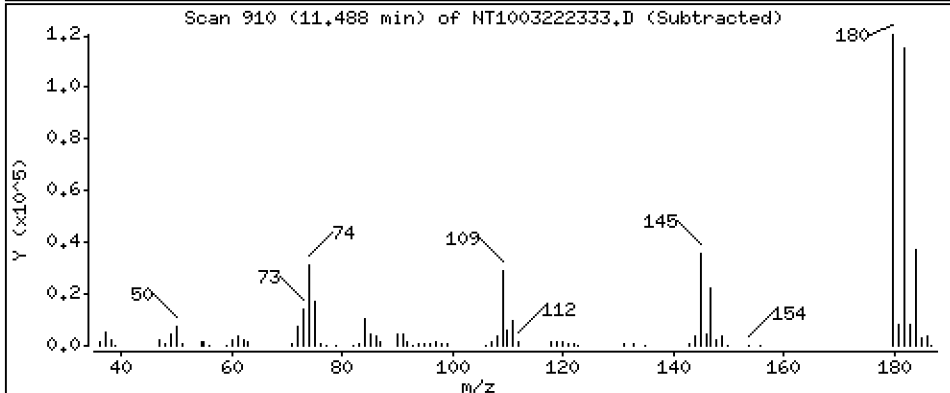
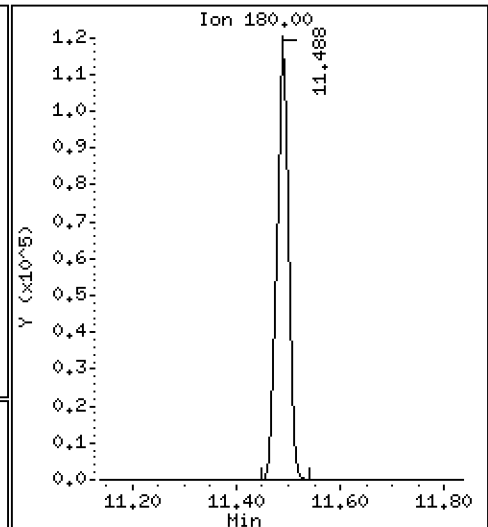
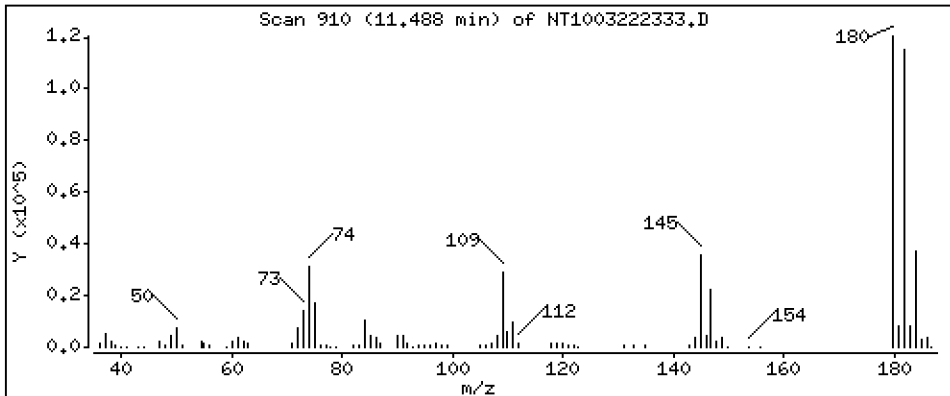
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 5,039 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

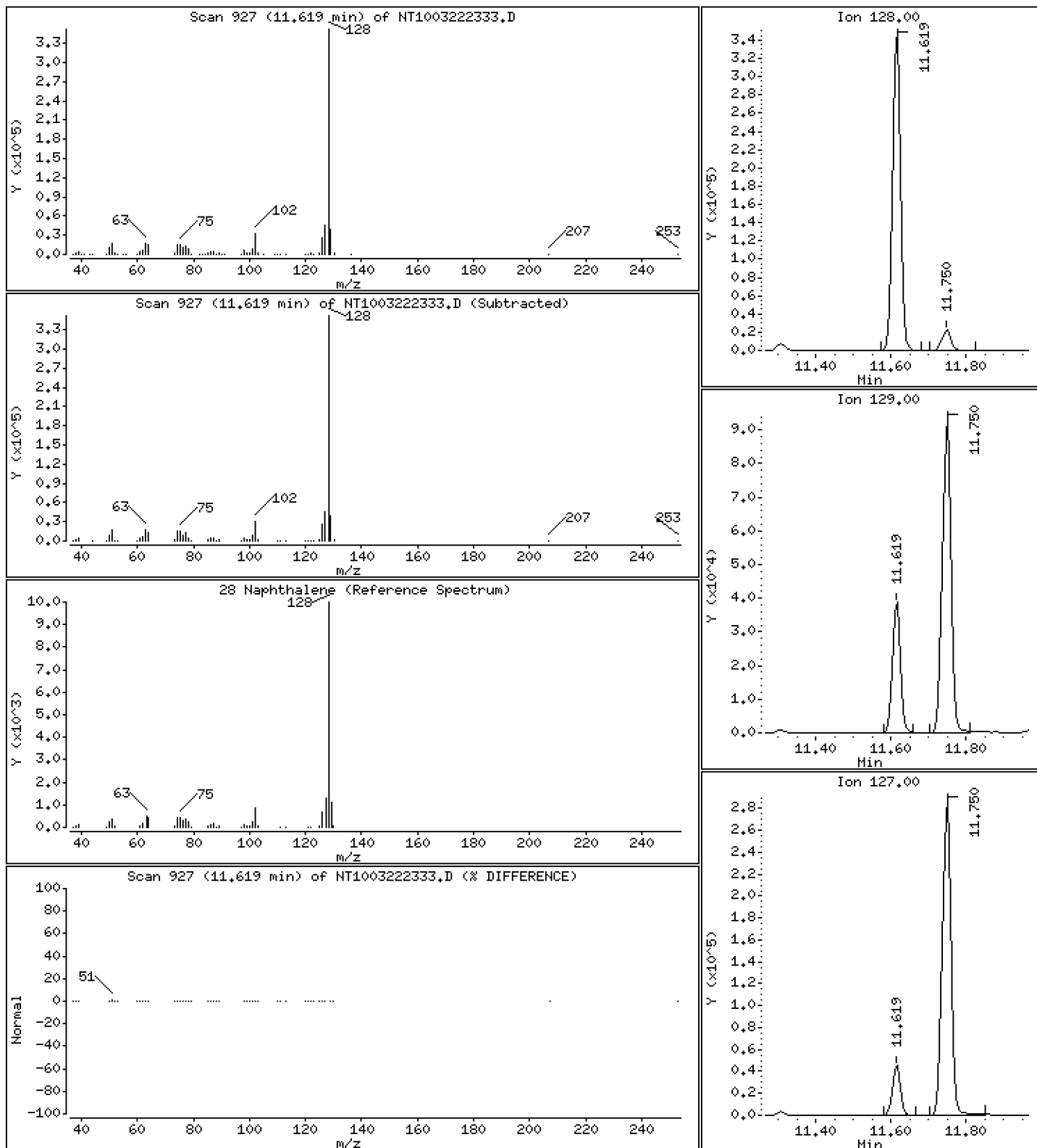
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 4,786 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

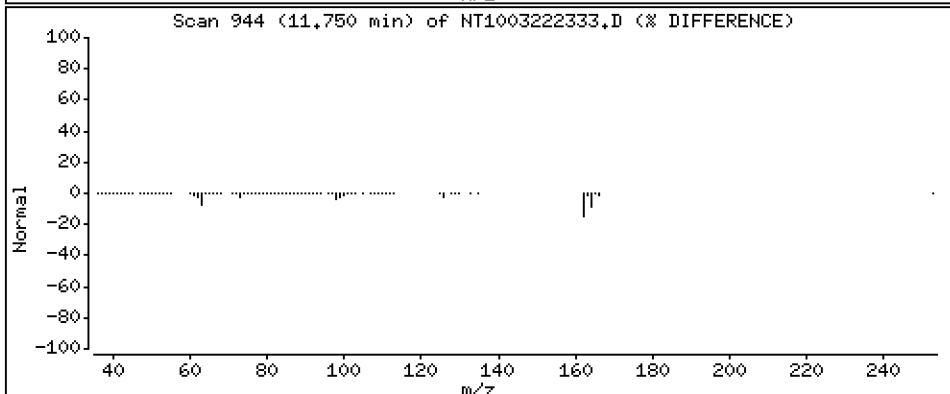
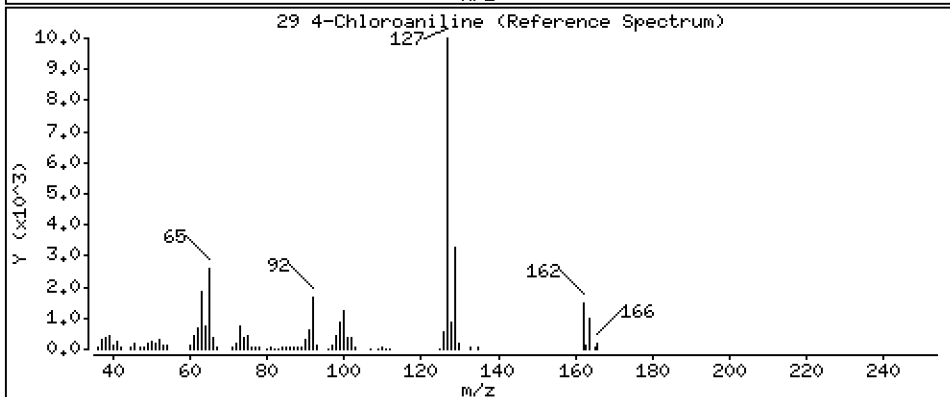
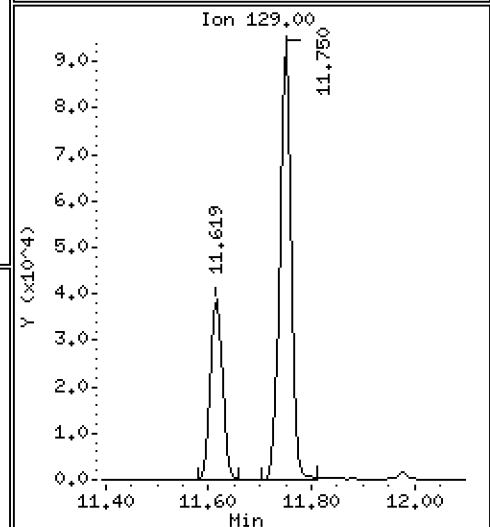
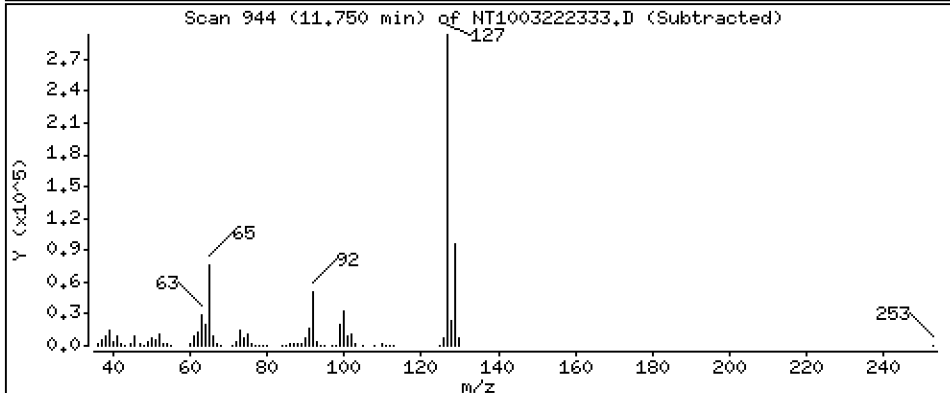
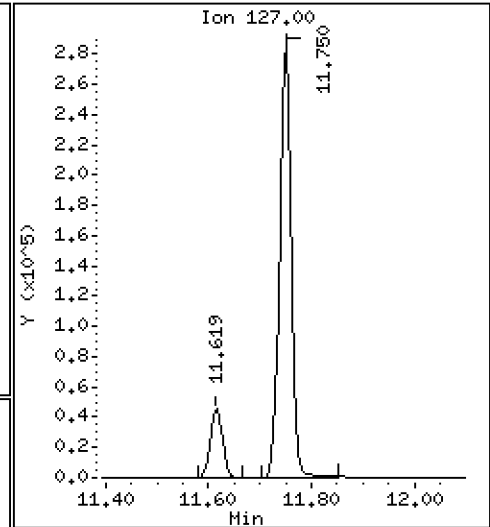
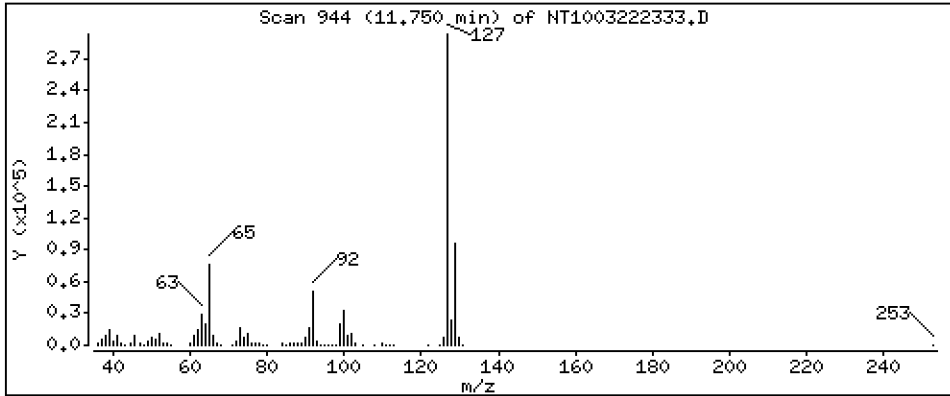
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

29 4-Chloroaniline

Concentration: 10,27 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

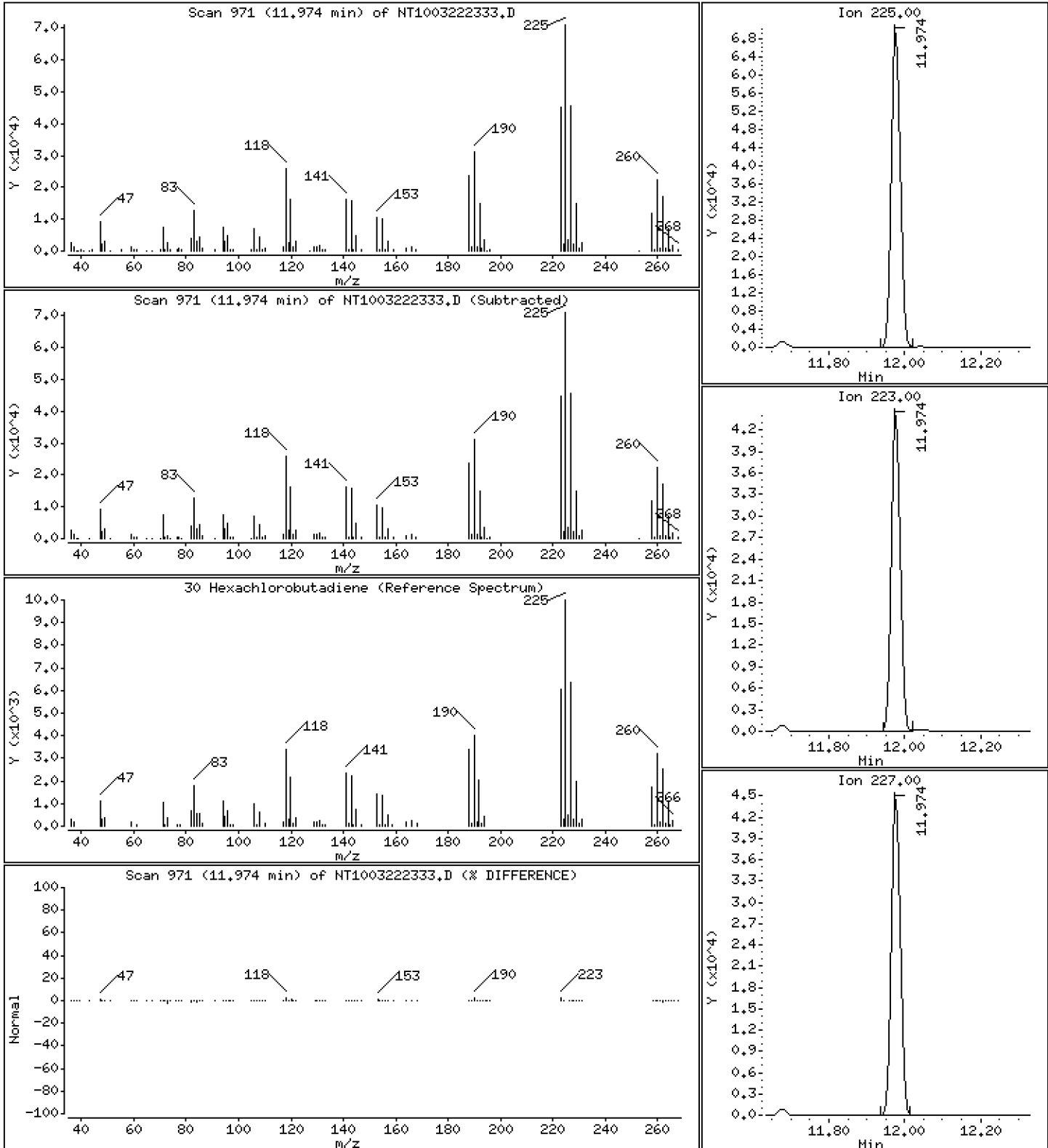
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 5,210 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

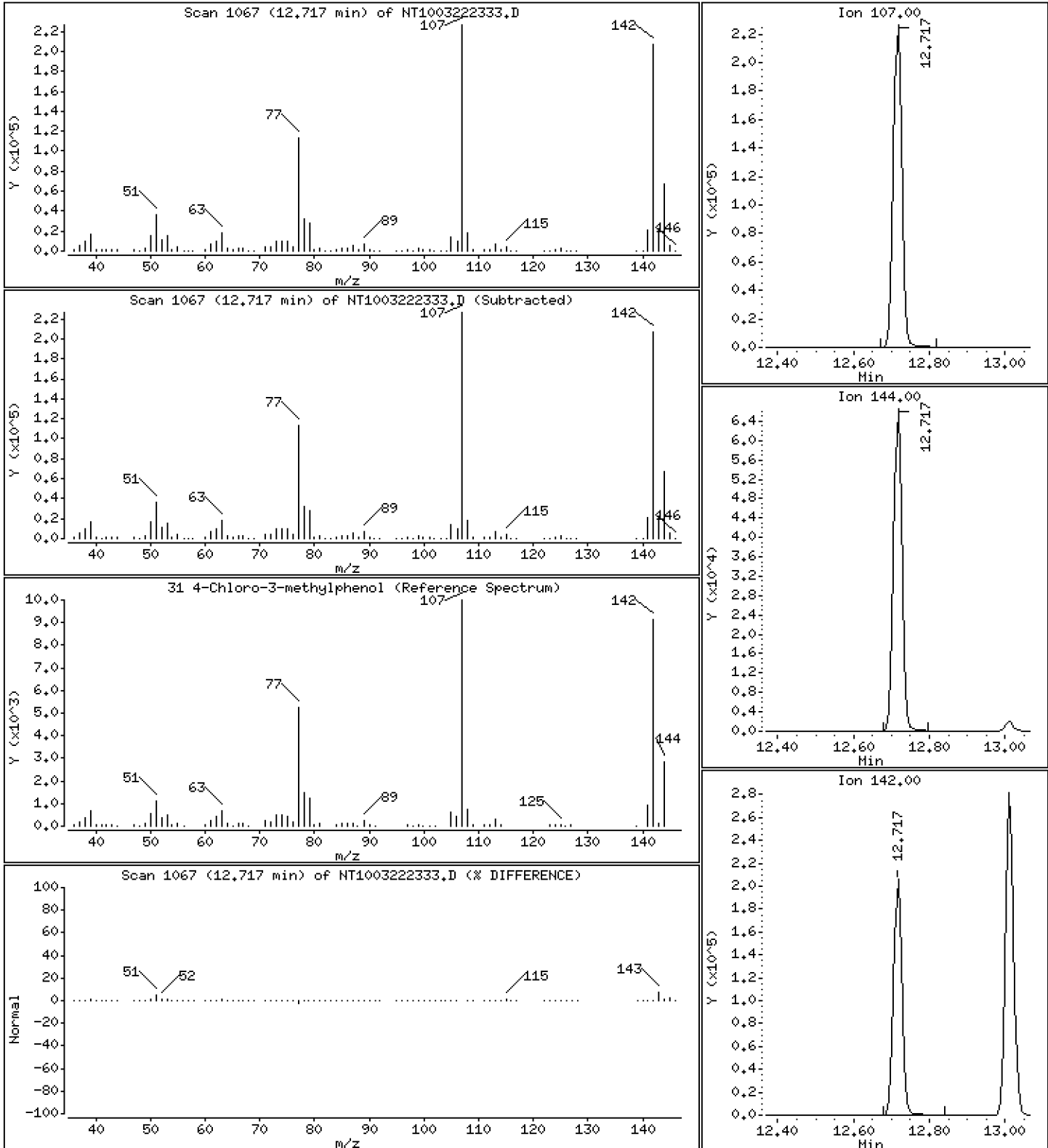
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

31 4-Chloro-3-methylphenol

Concentration: 10,15 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

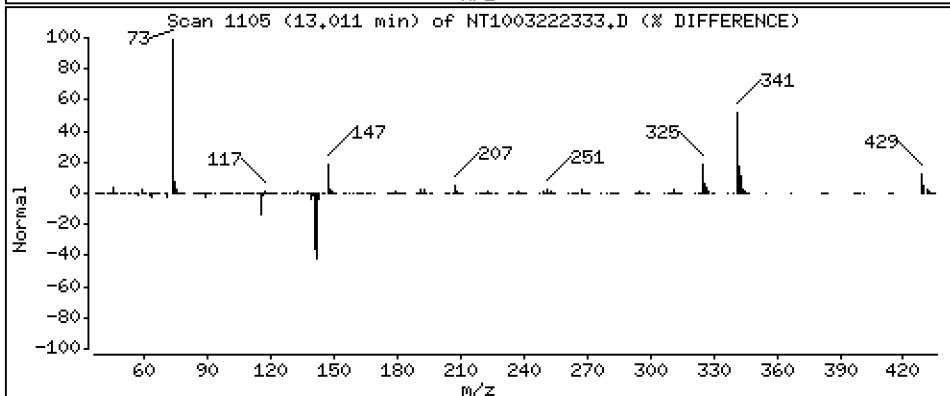
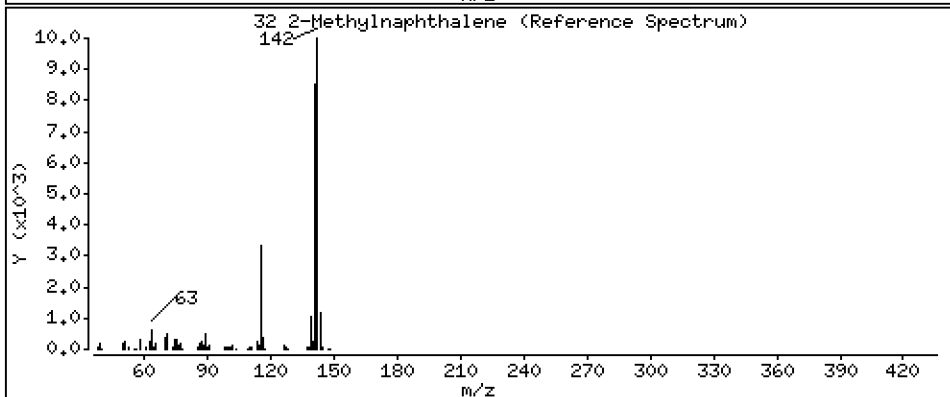
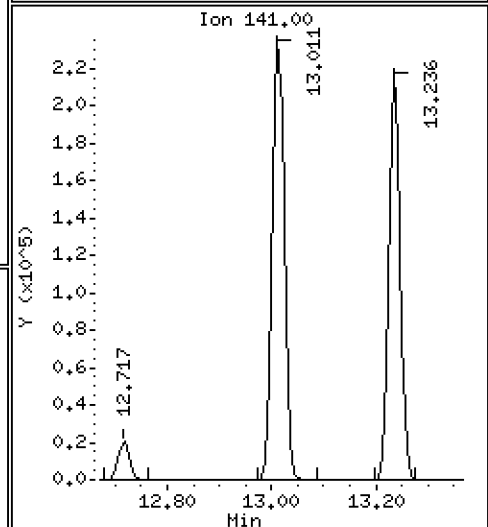
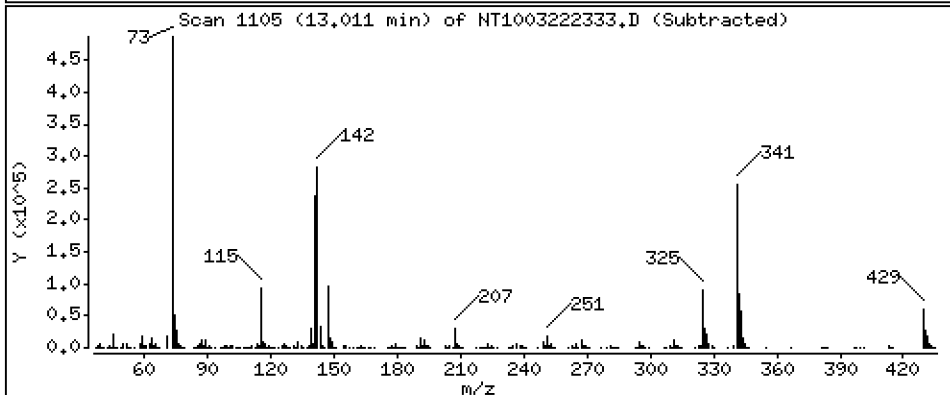
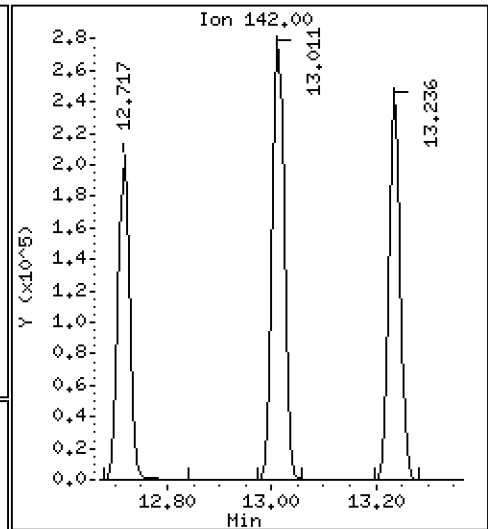
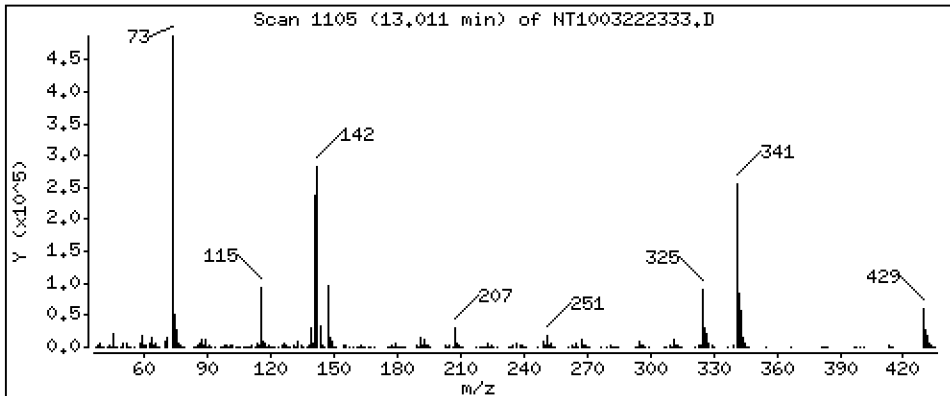
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 5,249 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

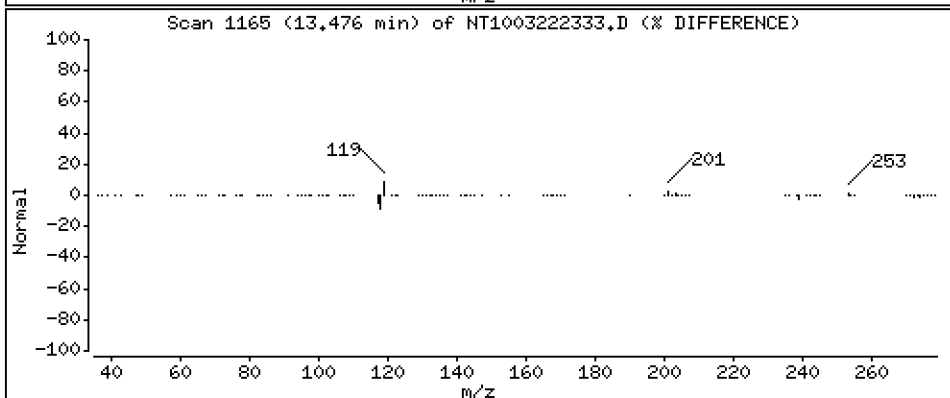
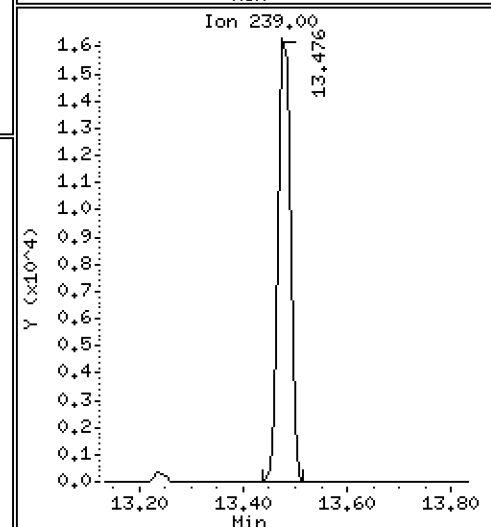
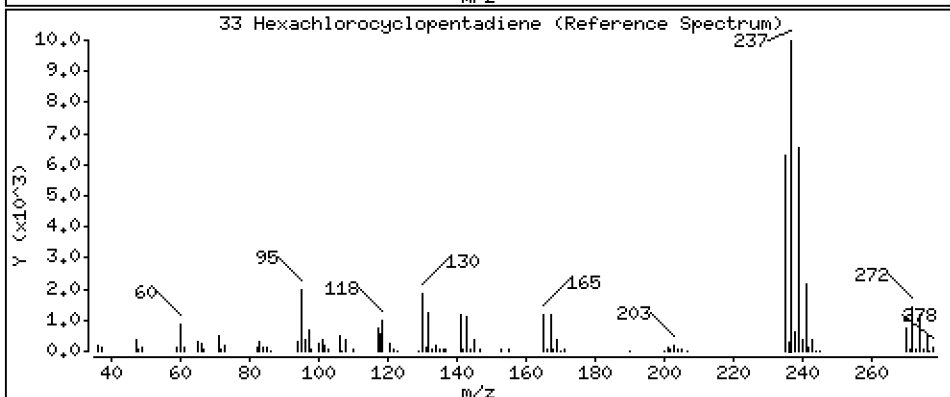
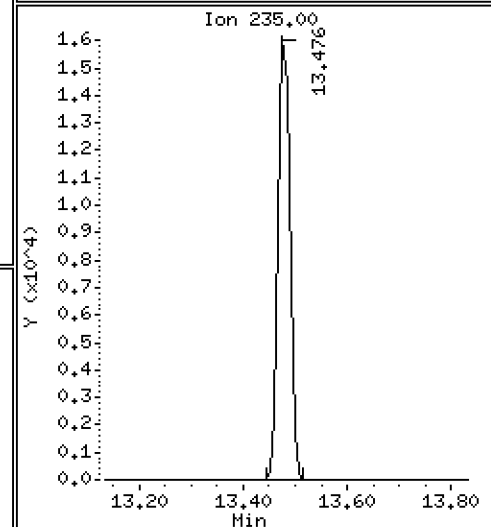
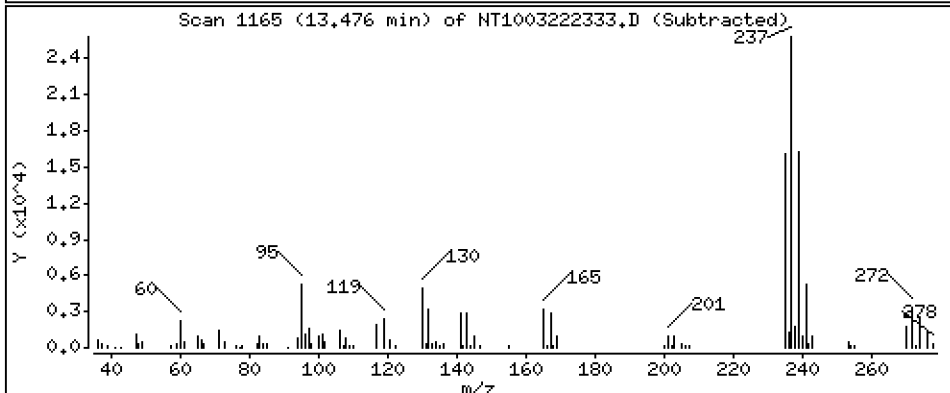
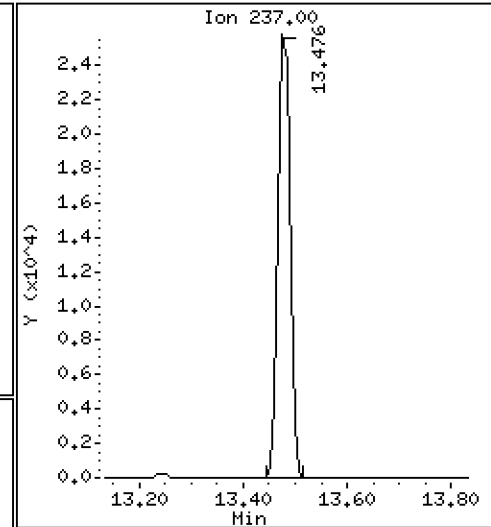
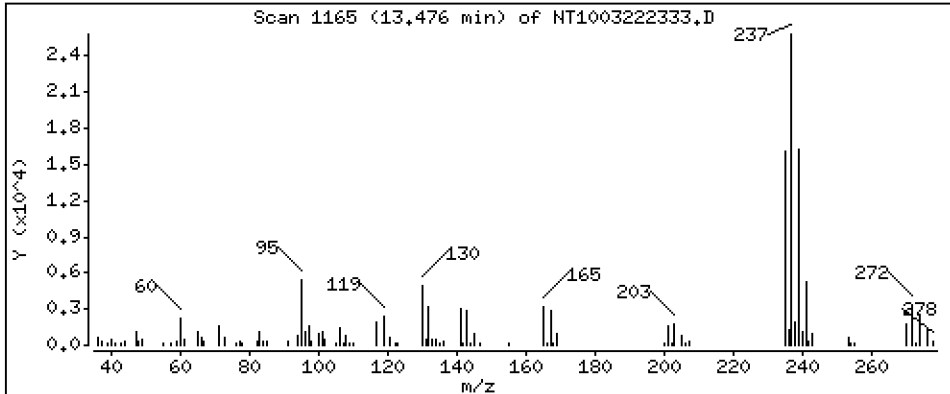
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

33 Hexachlorocyclopentadiene

Concentration: 1,743 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

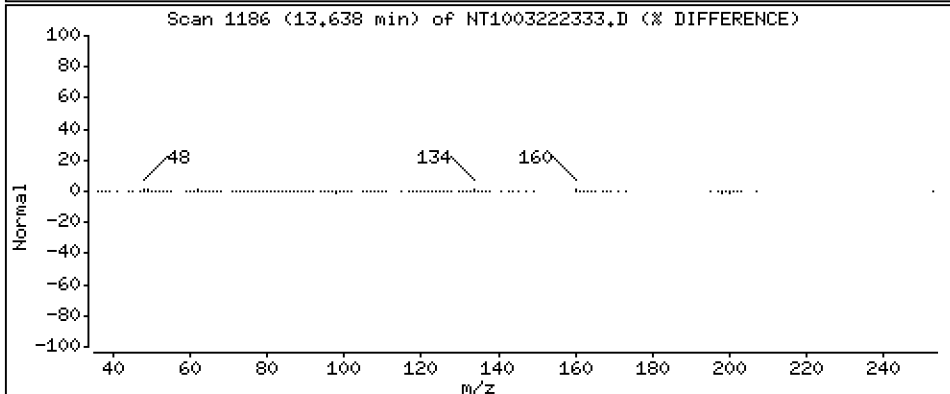
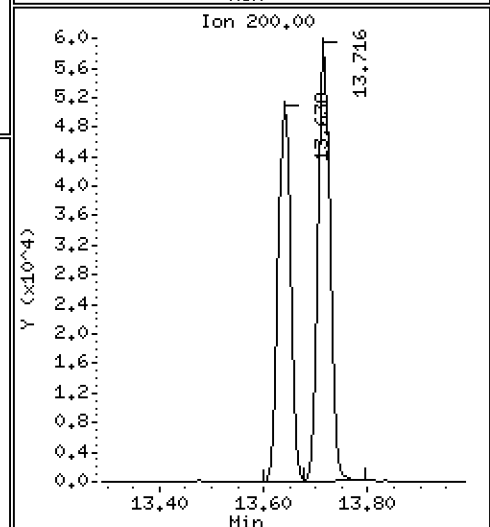
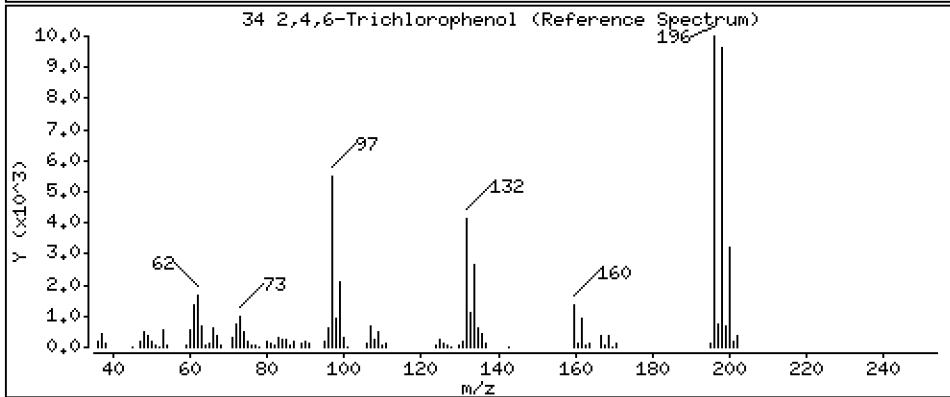
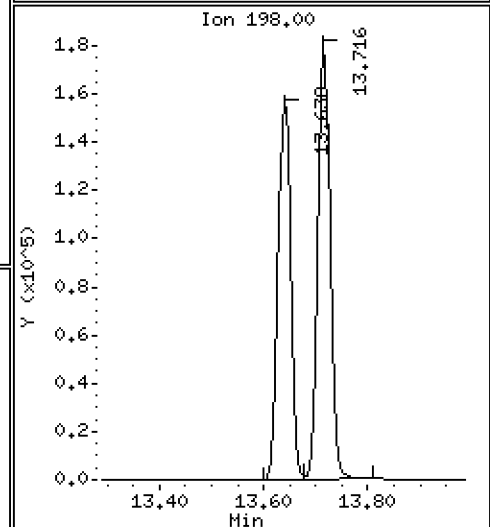
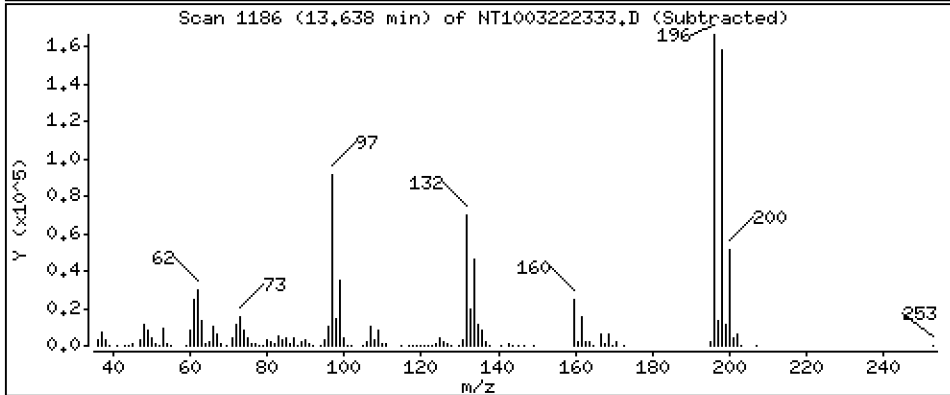
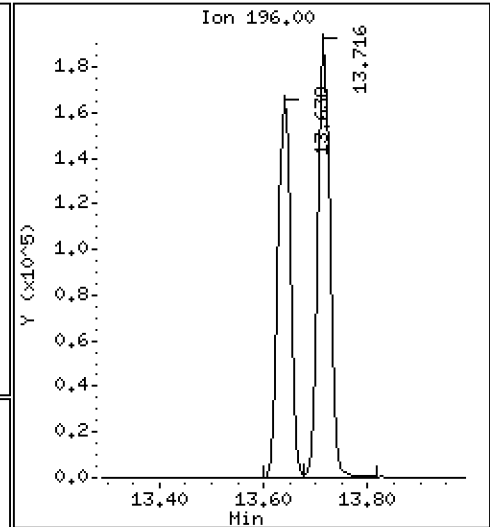
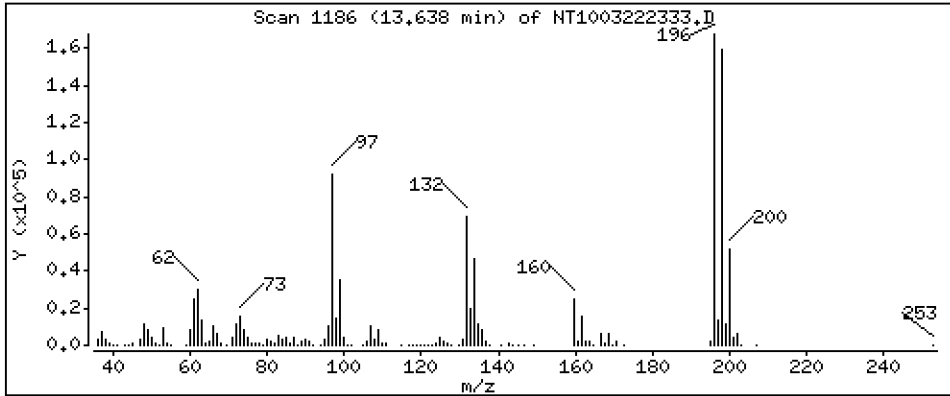
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

34 2,4,6-Trichlorophenol

Concentration: 10,95 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

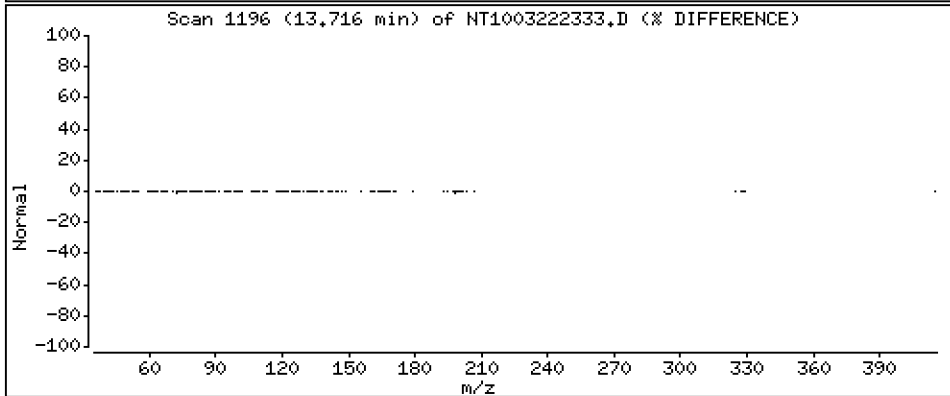
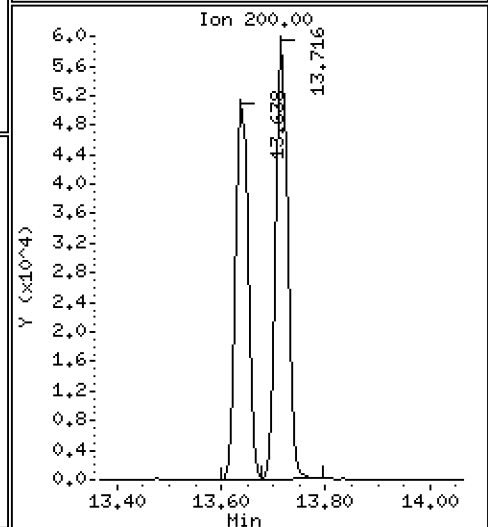
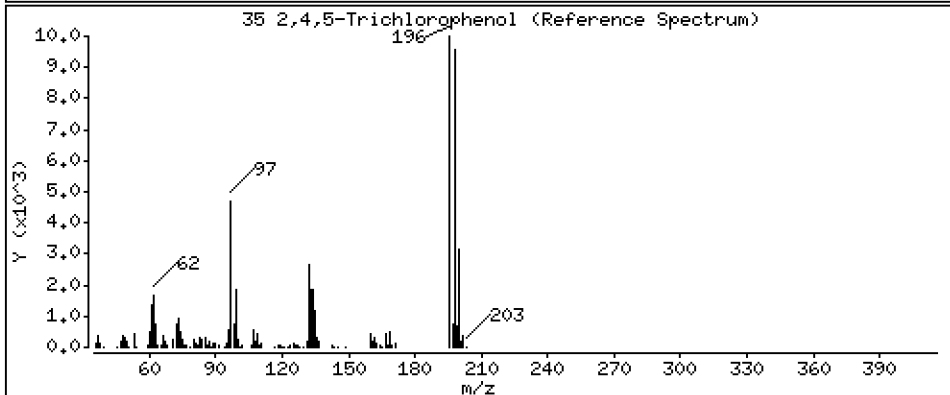
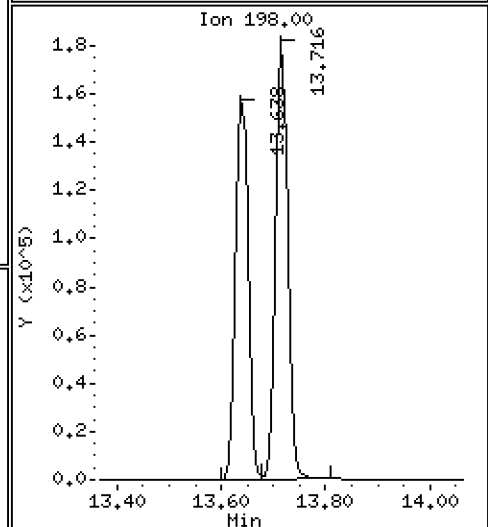
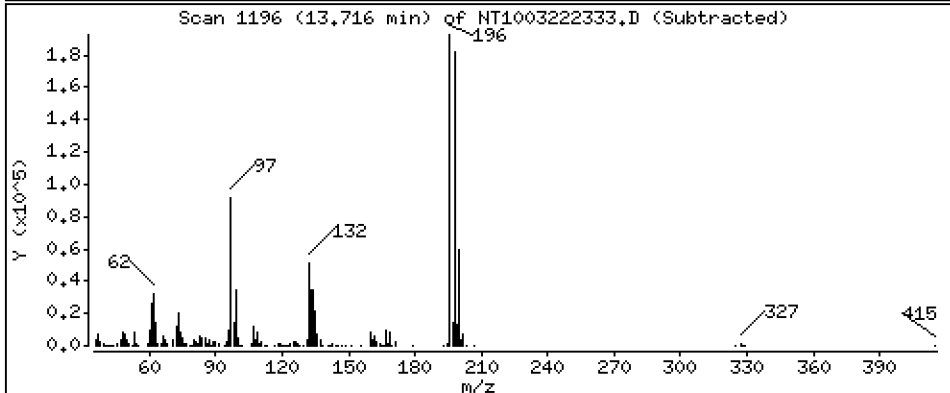
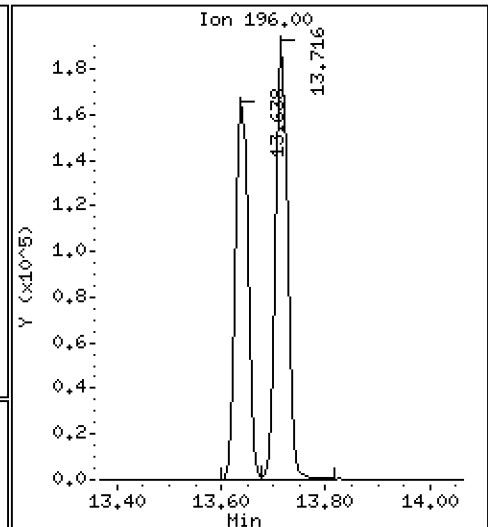
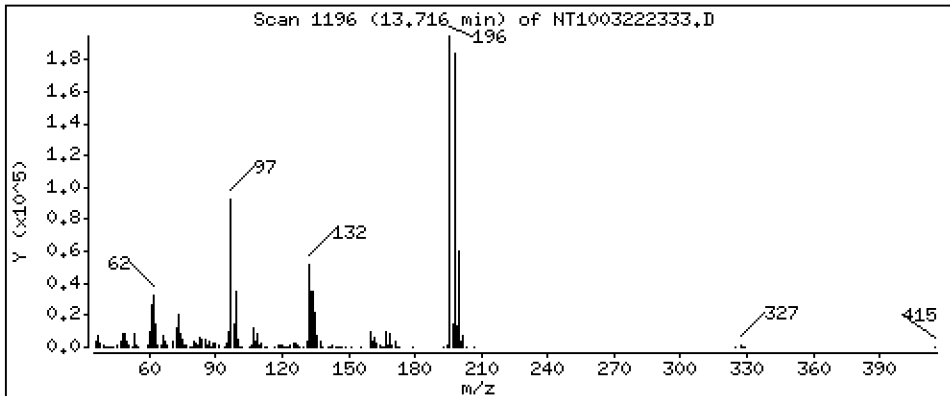
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

35 2,4,5-Trichlorophenol

Concentration: 10,78 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

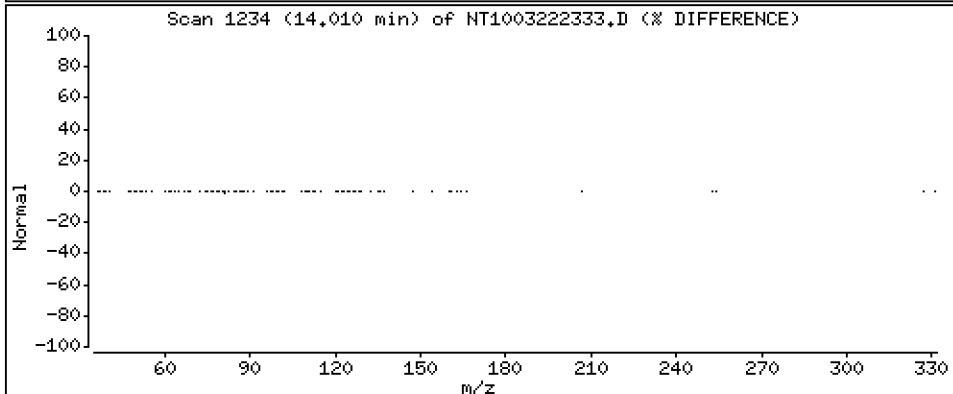
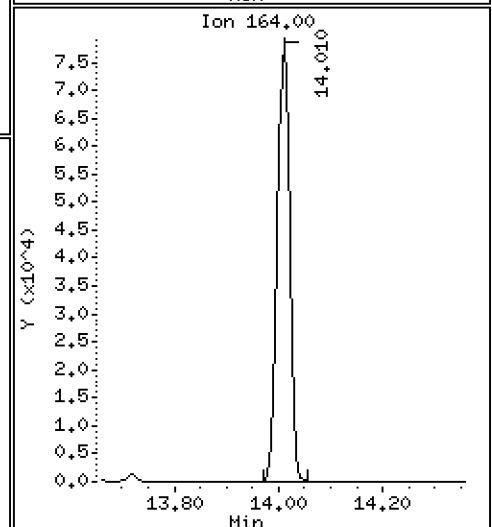
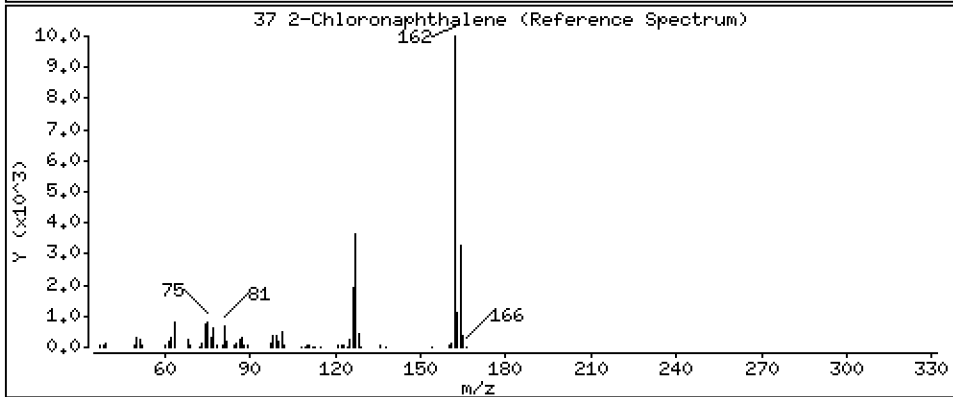
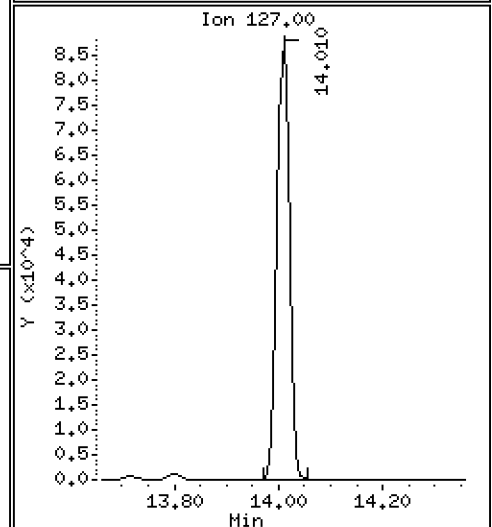
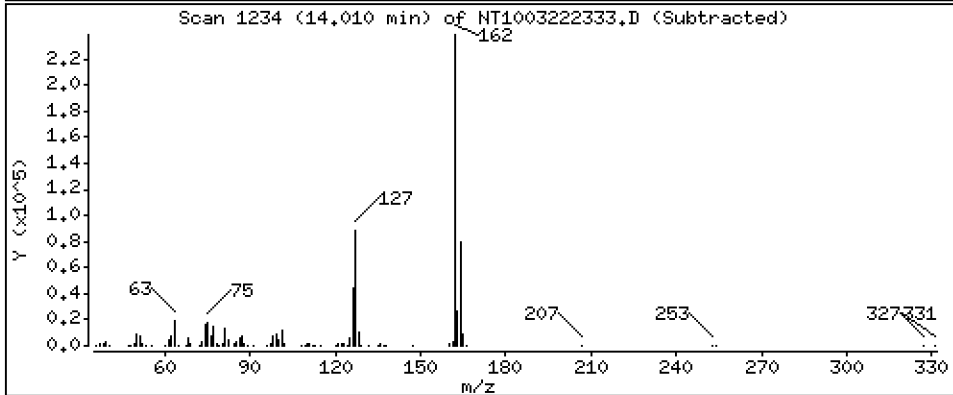
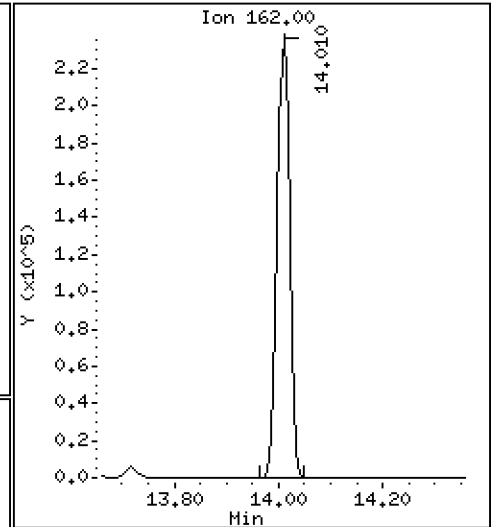
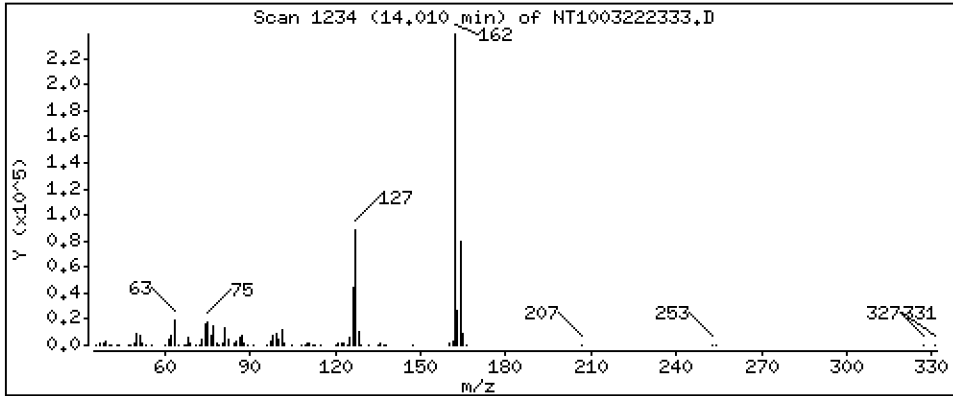
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

37 2-Chloronaphthalene

Concentration: 4,833 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

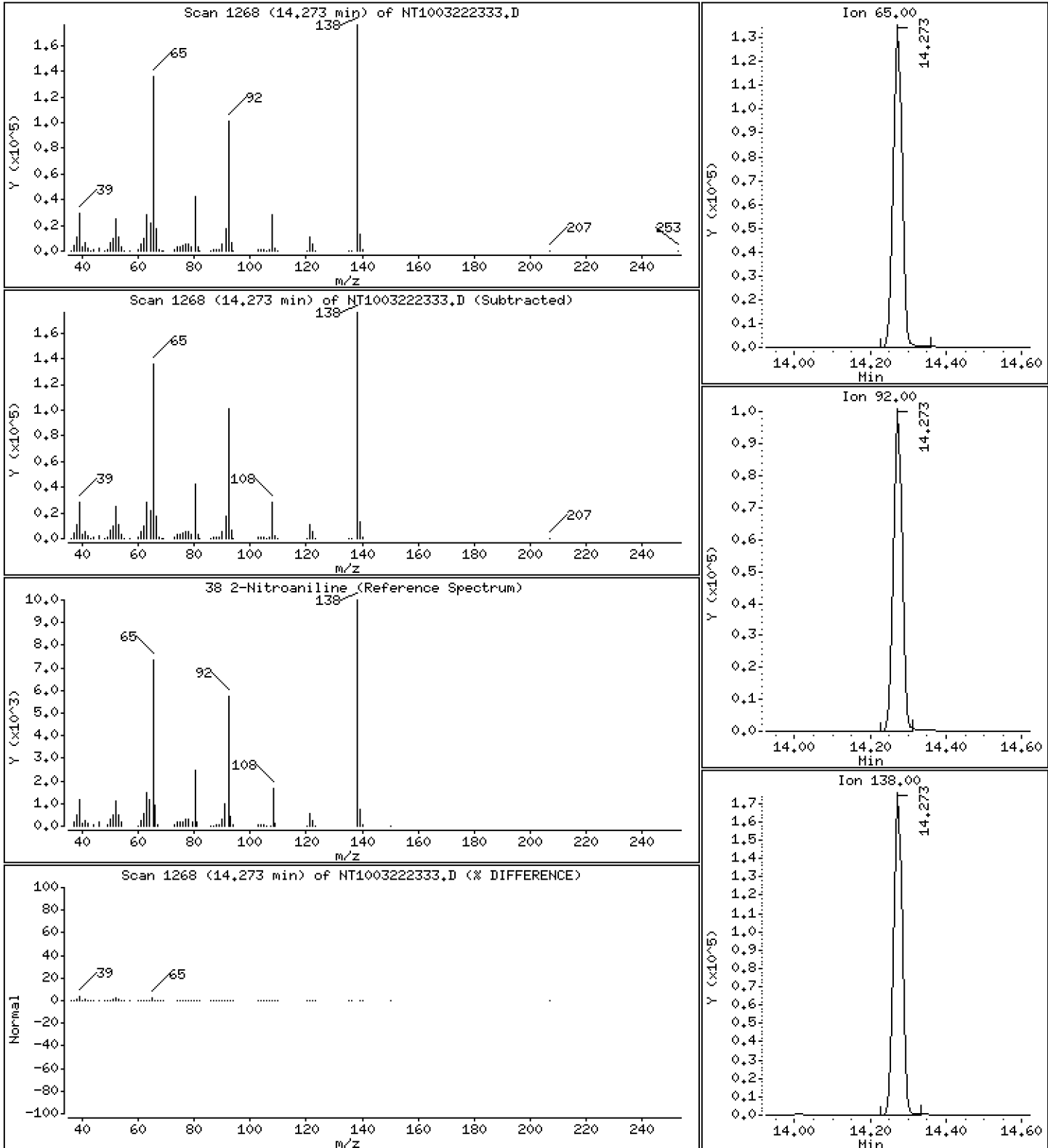
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

38 2-Nitroaniline

Concentration: 9,300 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

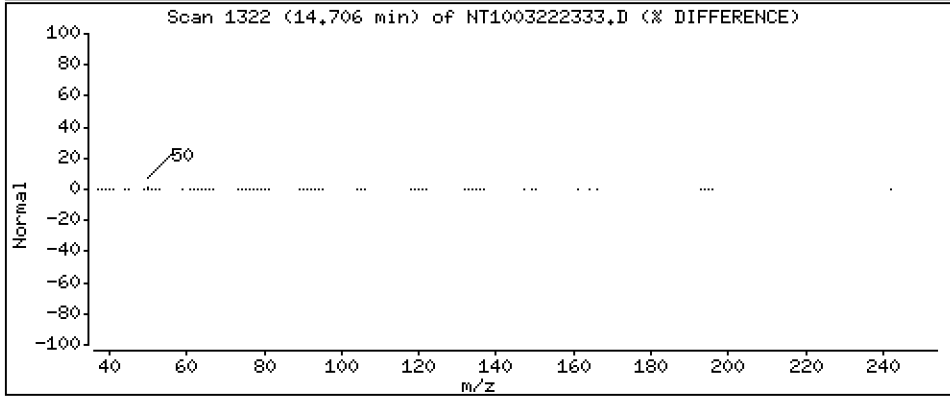
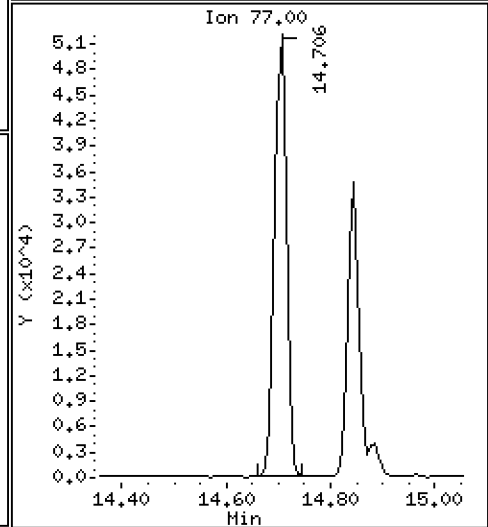
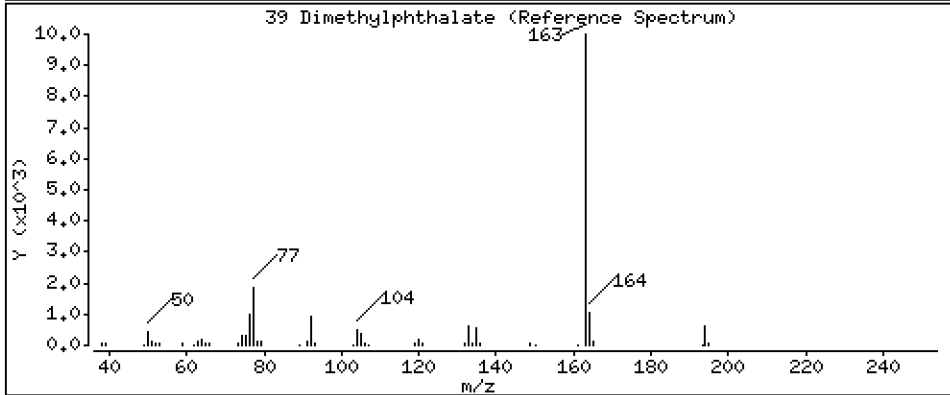
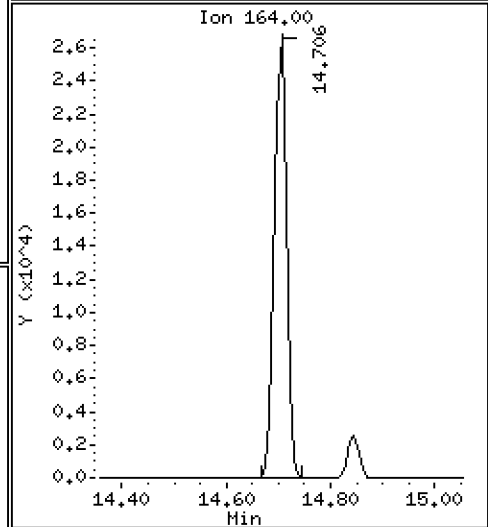
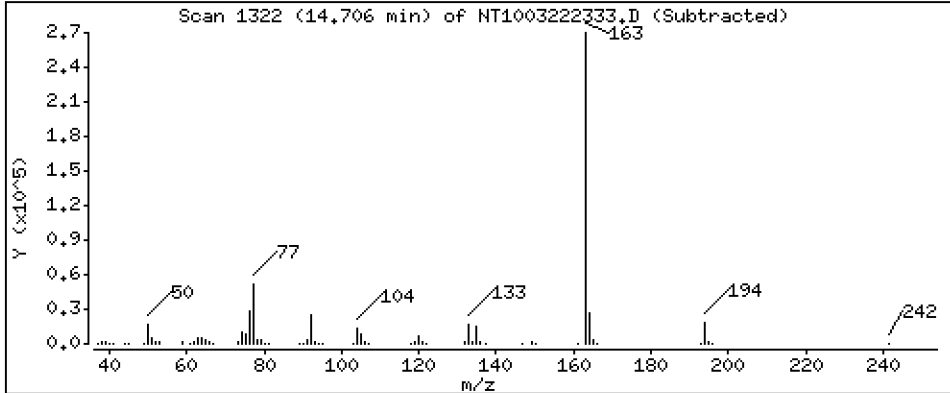
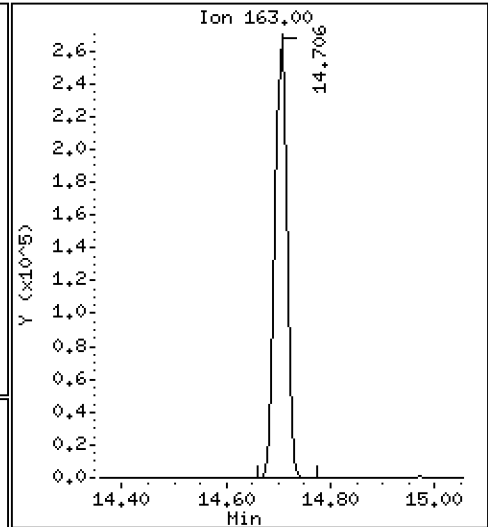
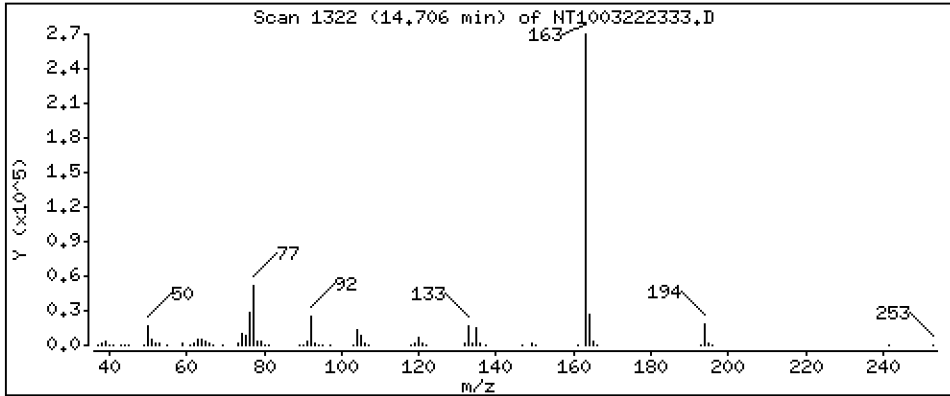
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 5,130 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

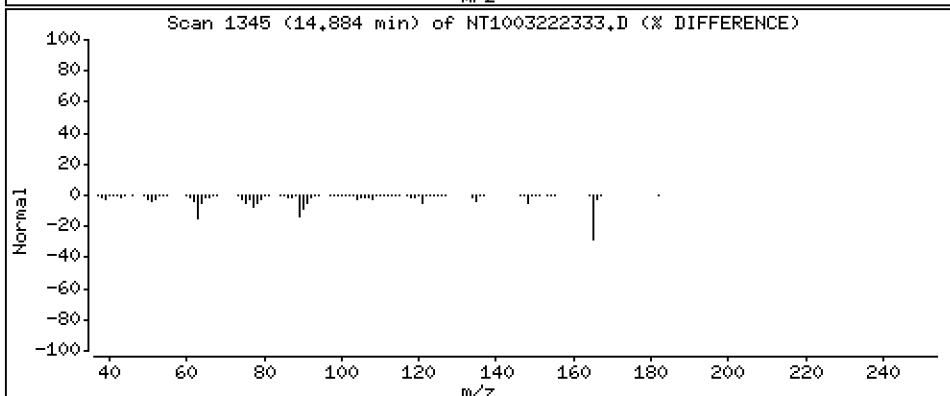
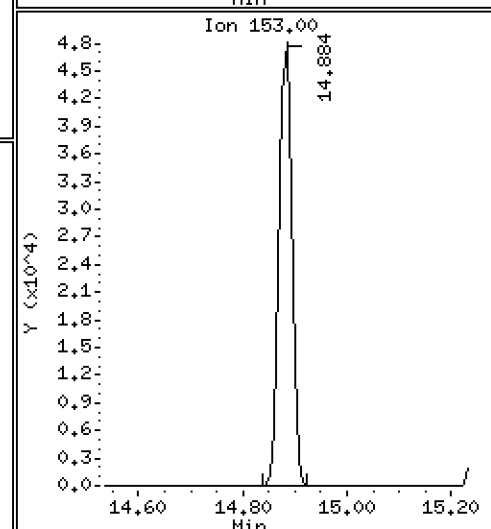
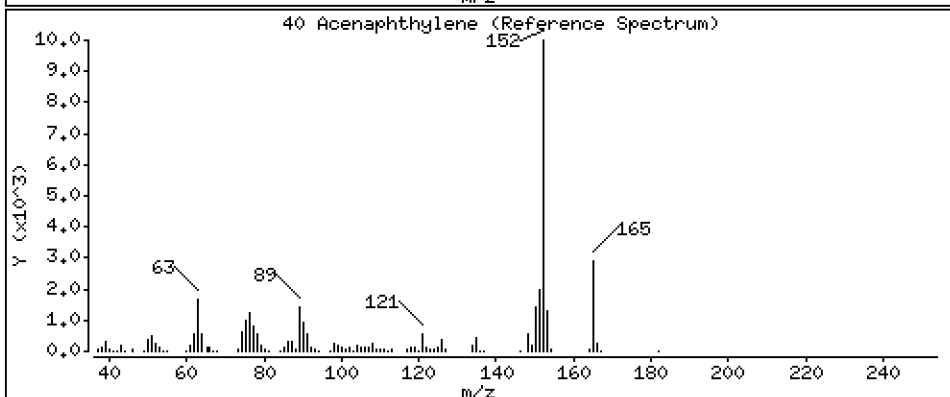
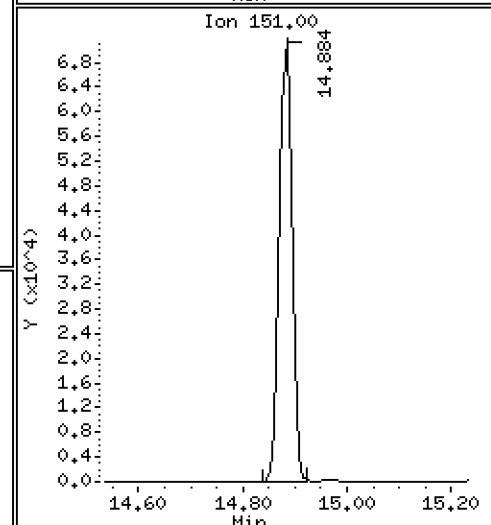
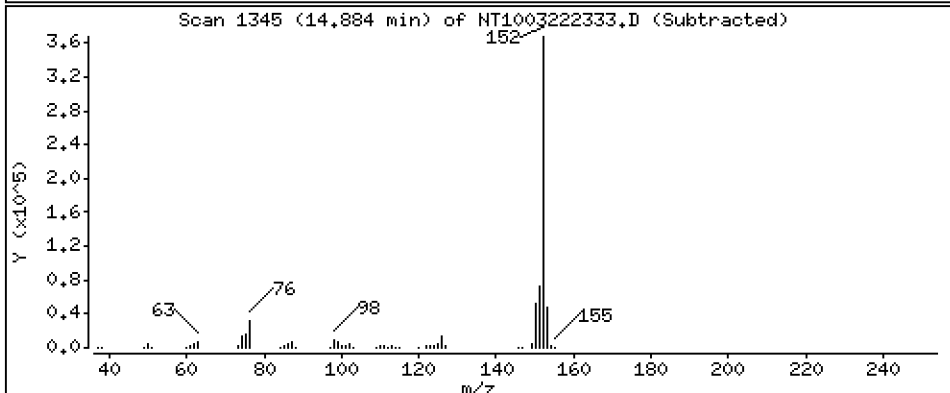
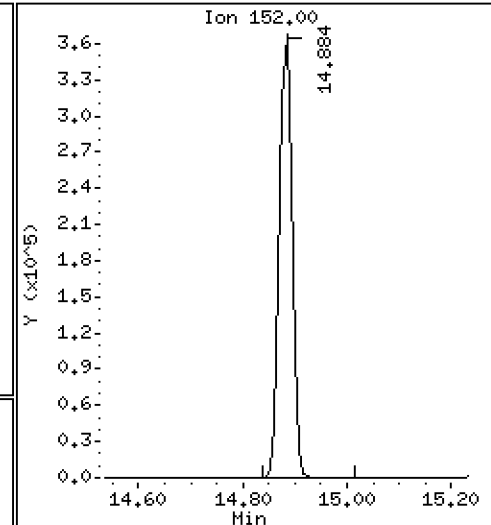
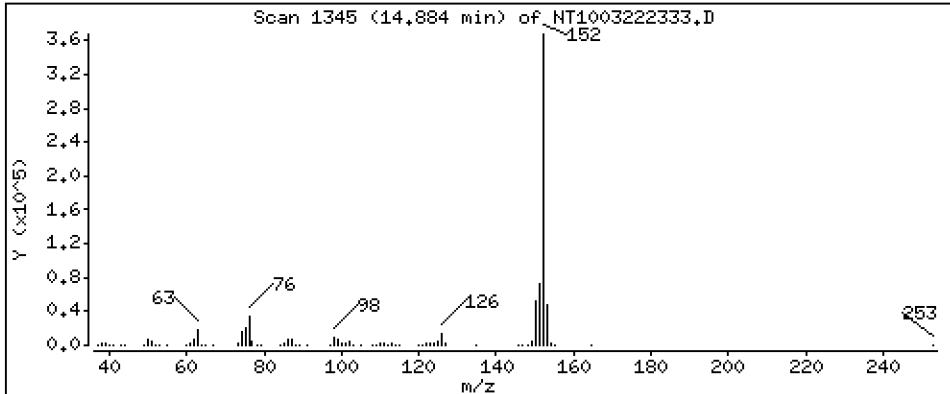
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 5,329 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

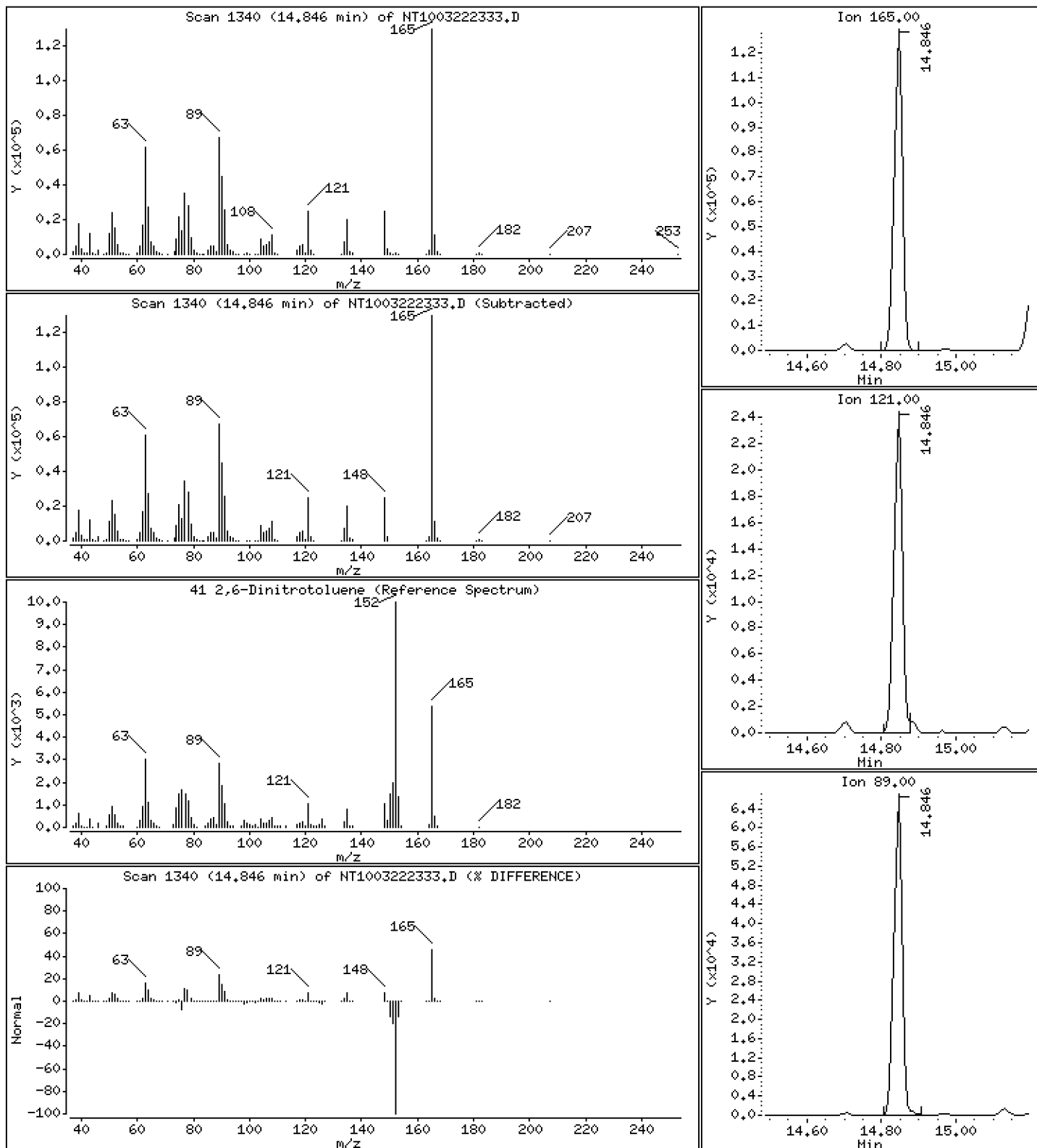
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

41 2,6-Dinitrotoluene

Concentration: 11,14 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

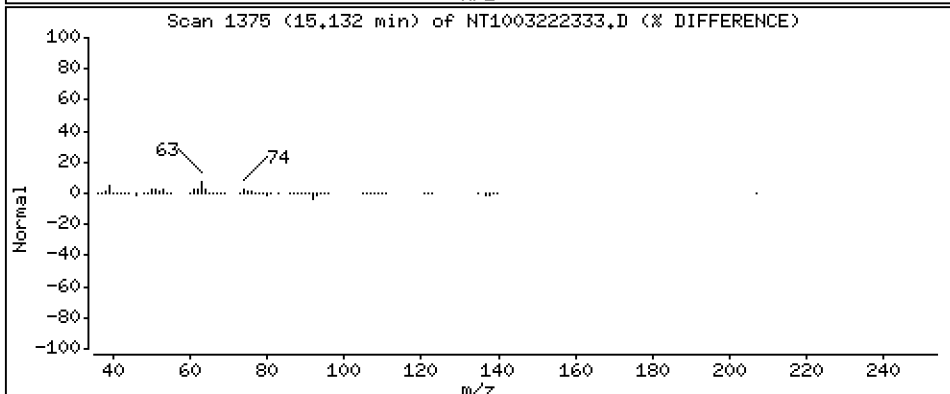
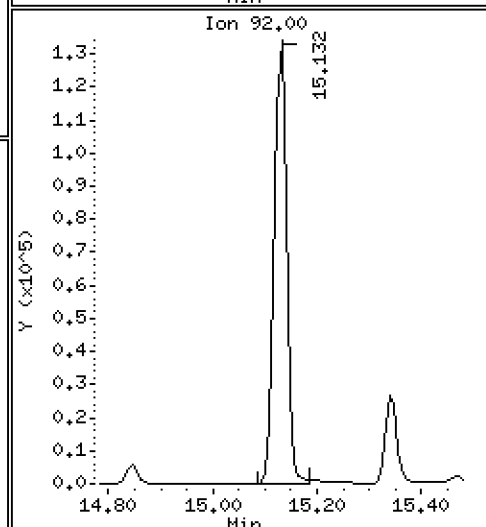
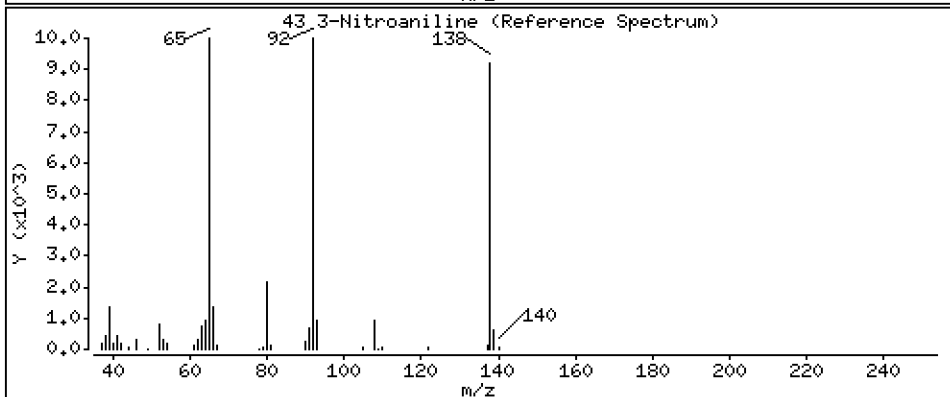
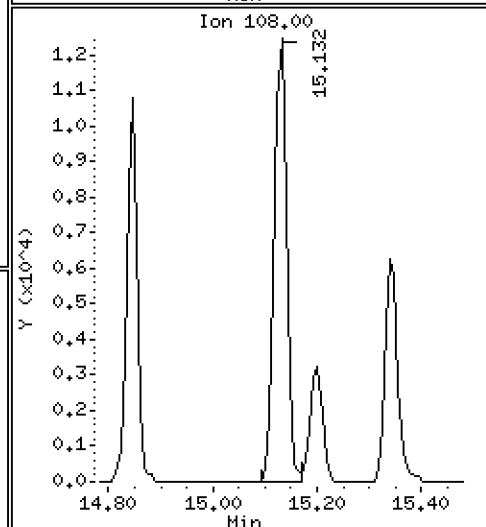
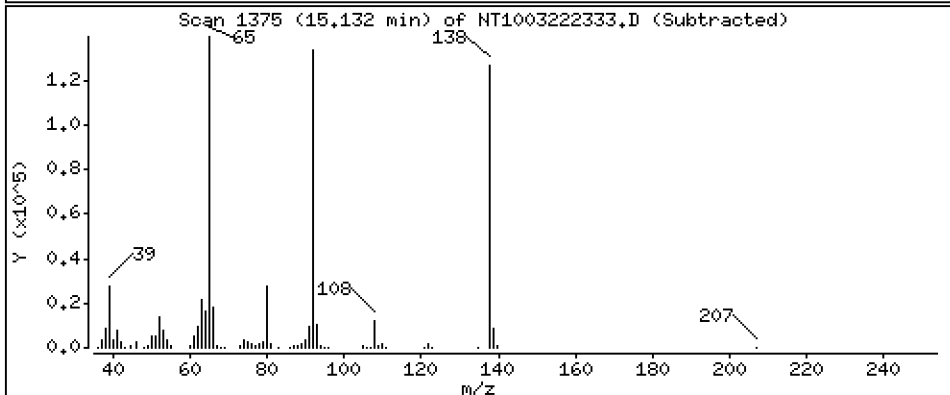
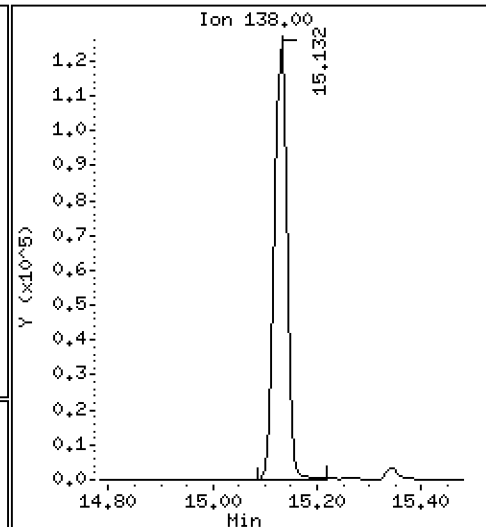
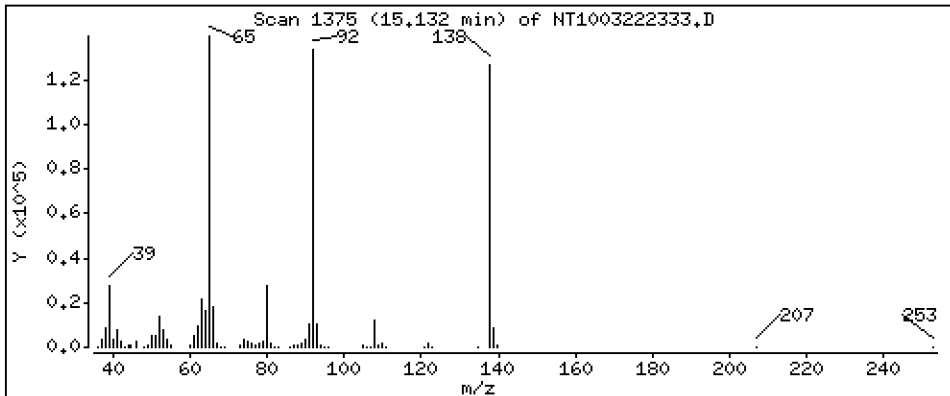
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

43 3-Nitroaniline

Concentration: 10,34 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

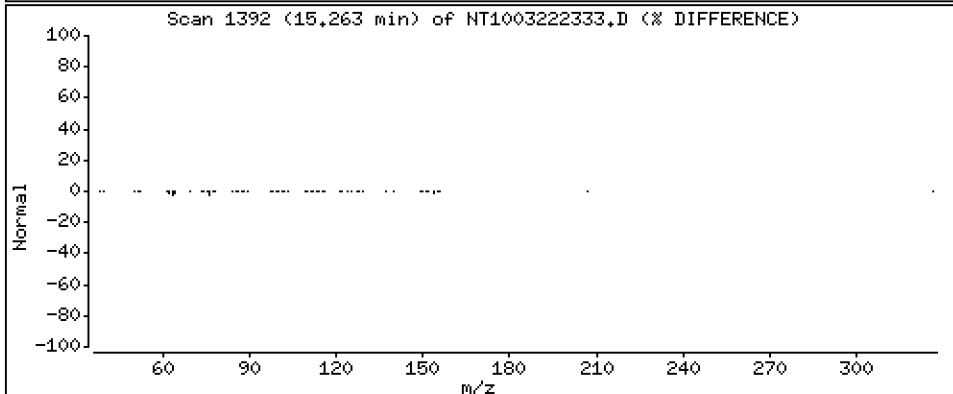
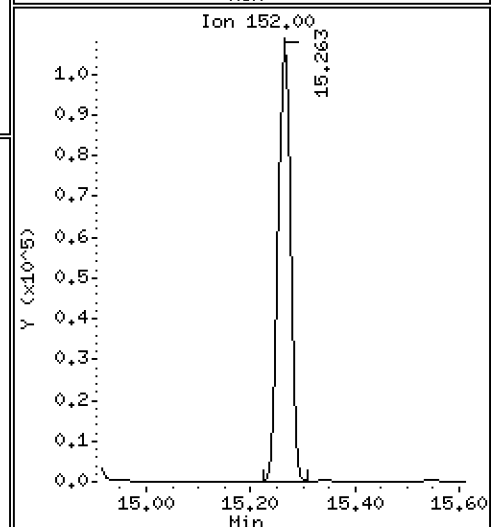
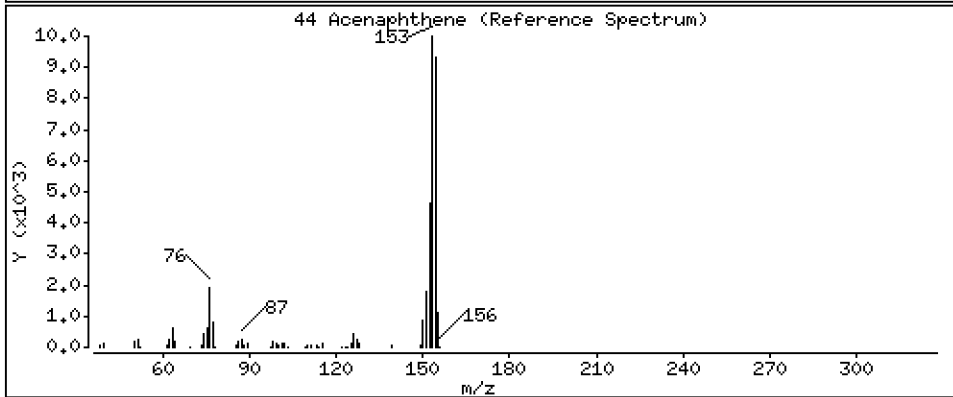
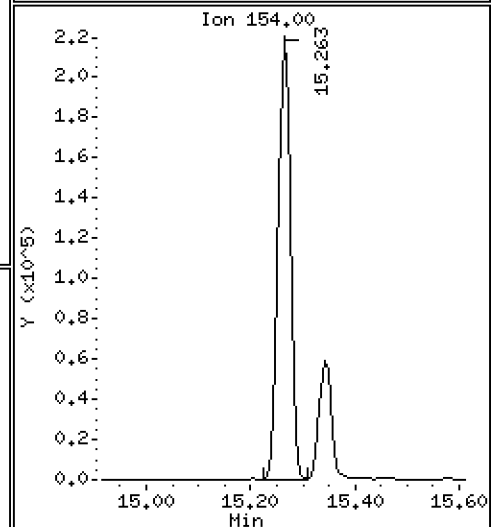
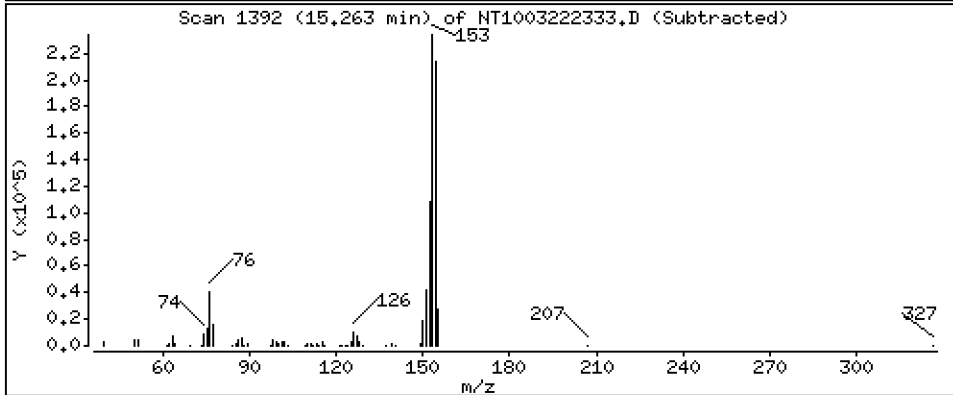
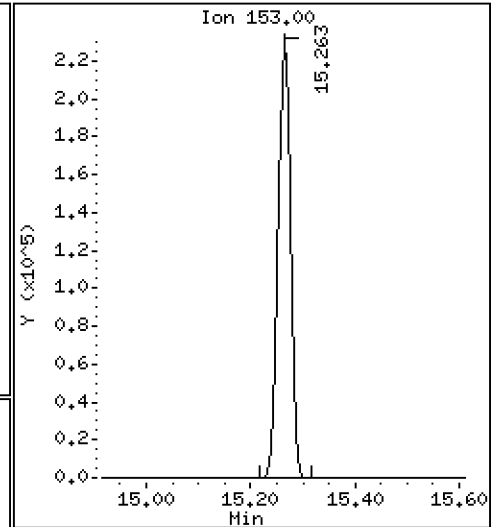
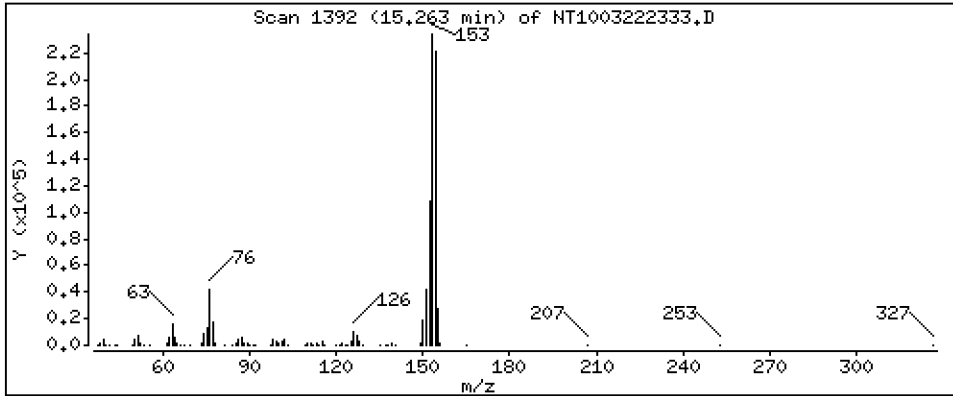
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 4,794 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

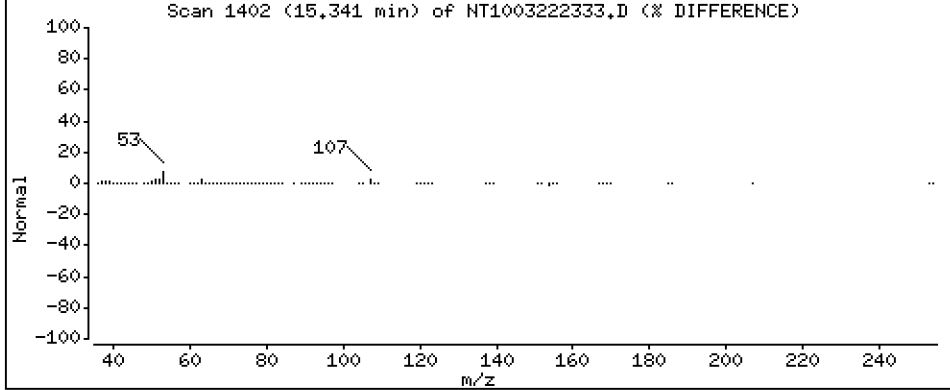
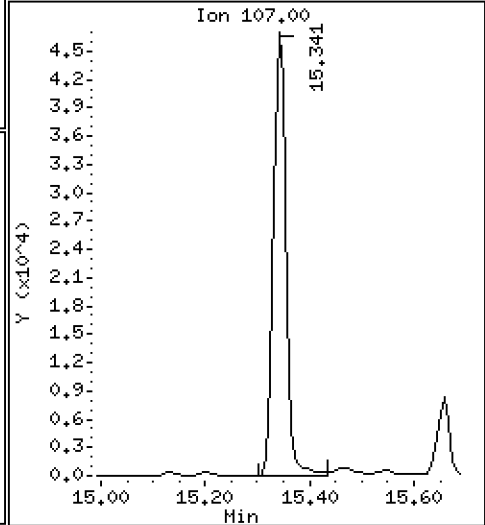
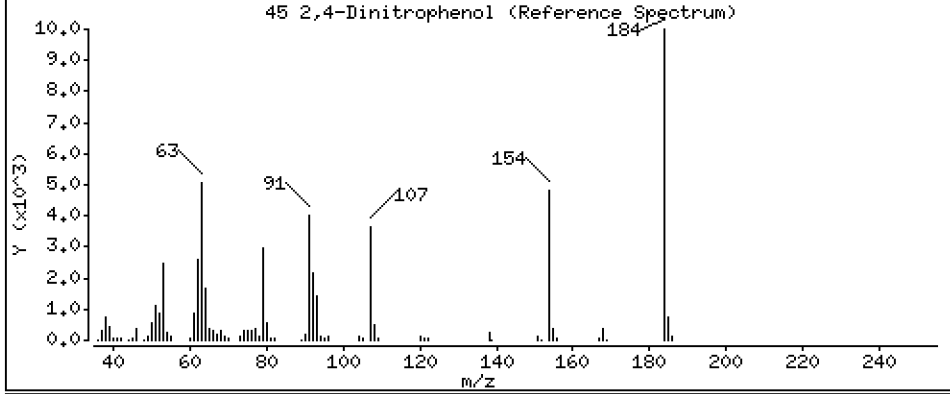
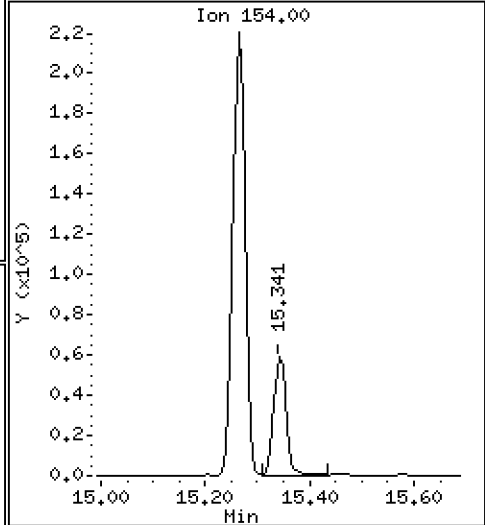
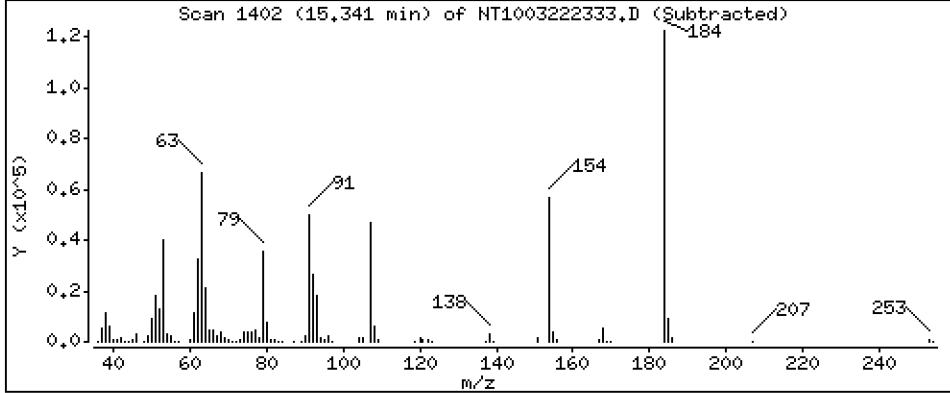
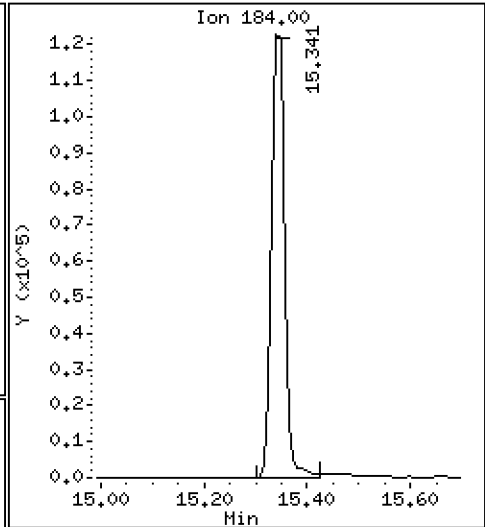
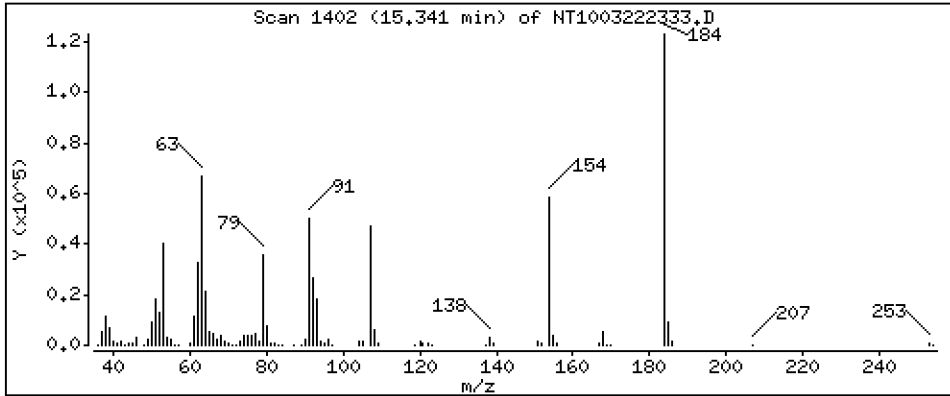
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

45 2,4-Dinitrophenol

Concentration: 18,71 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

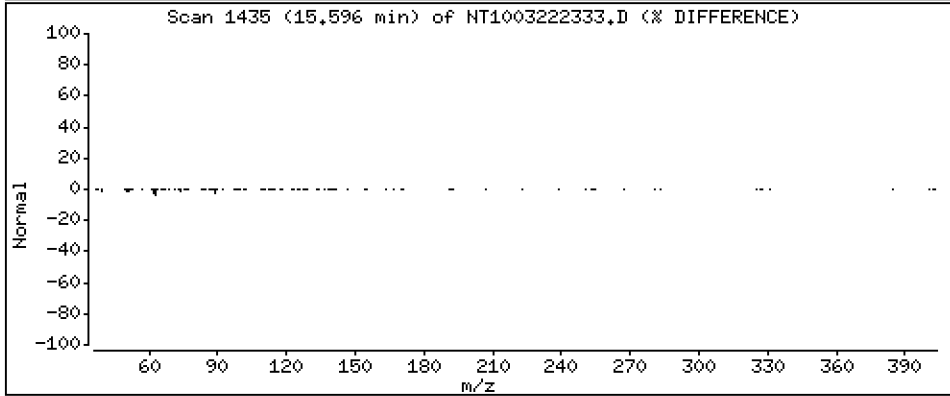
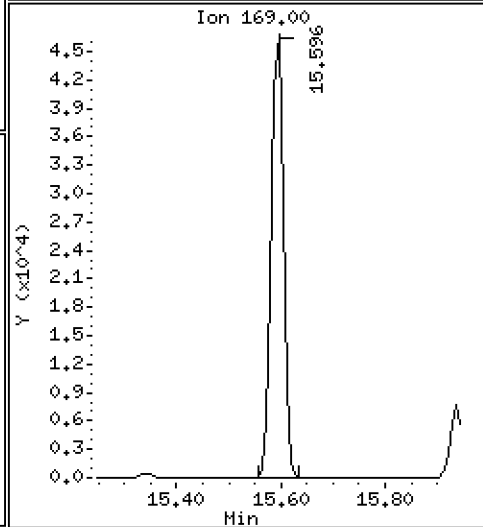
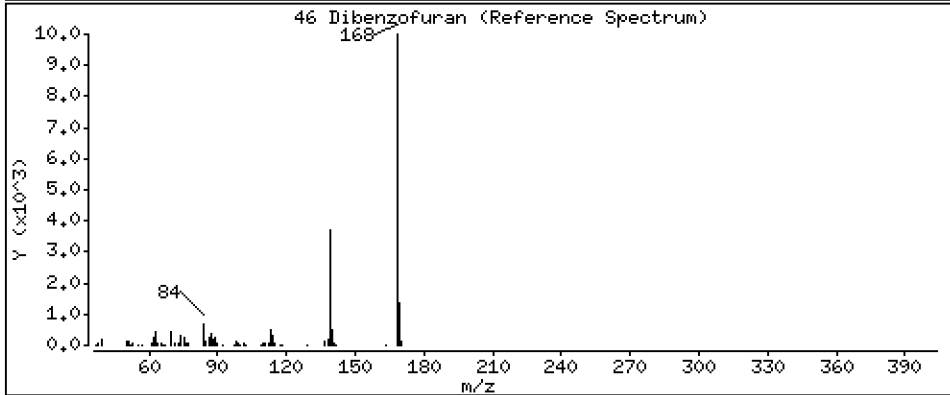
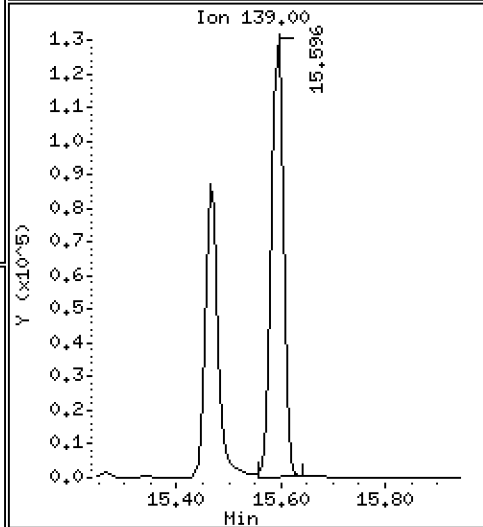
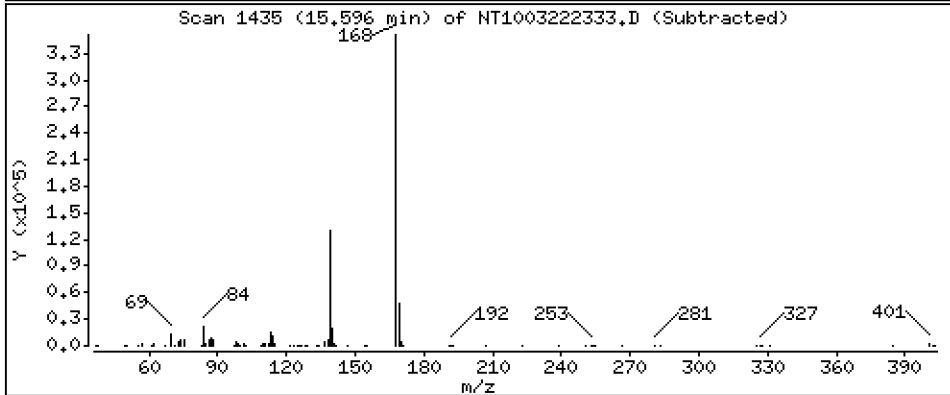
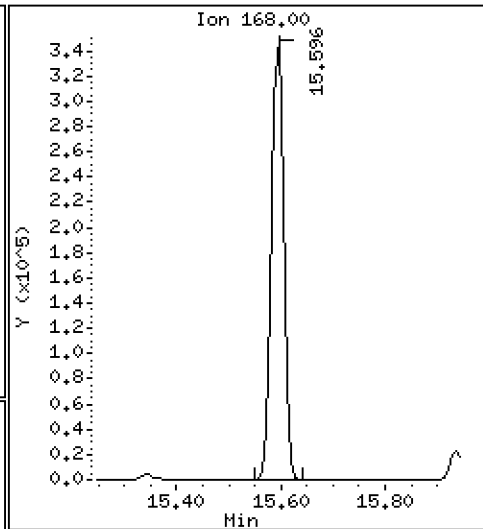
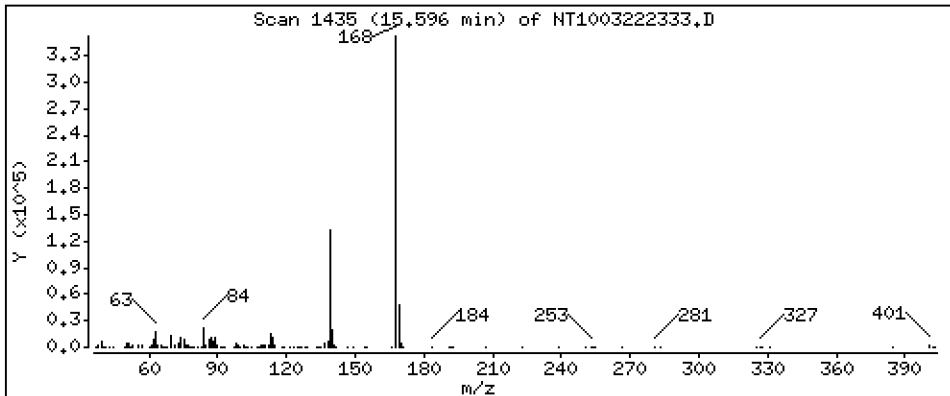
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 4,831 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

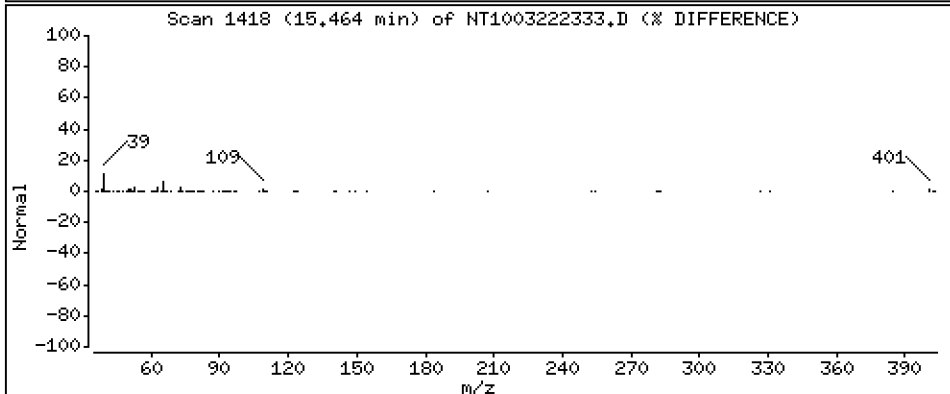
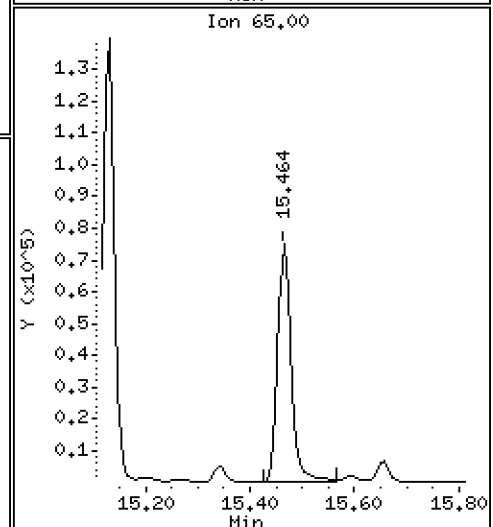
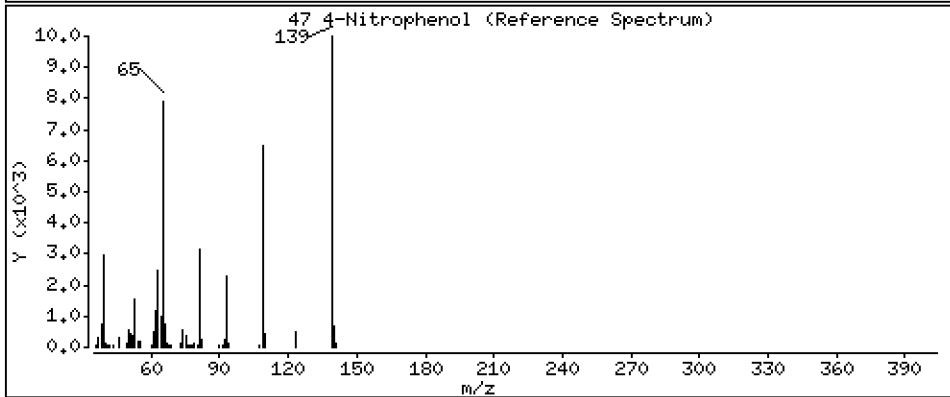
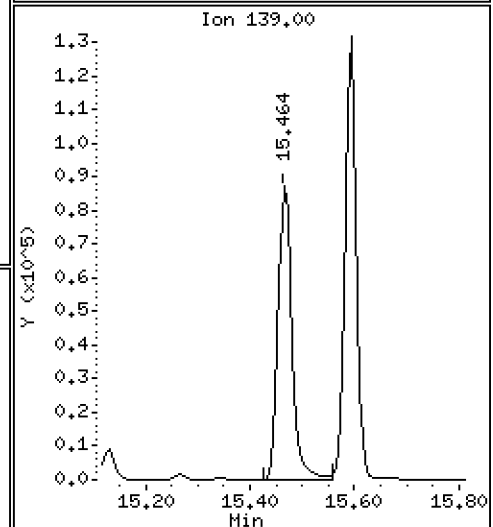
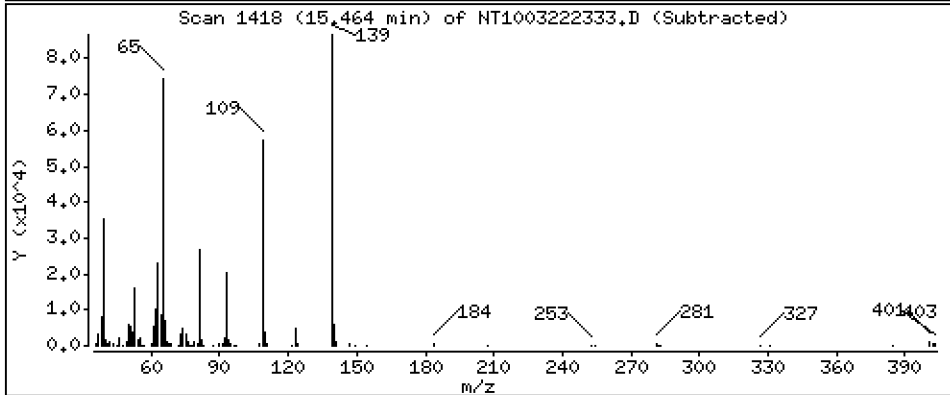
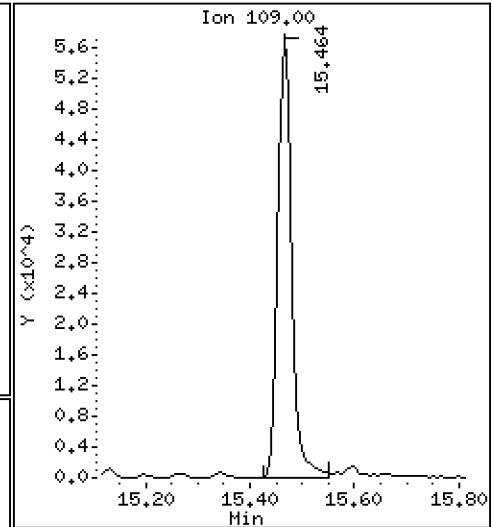
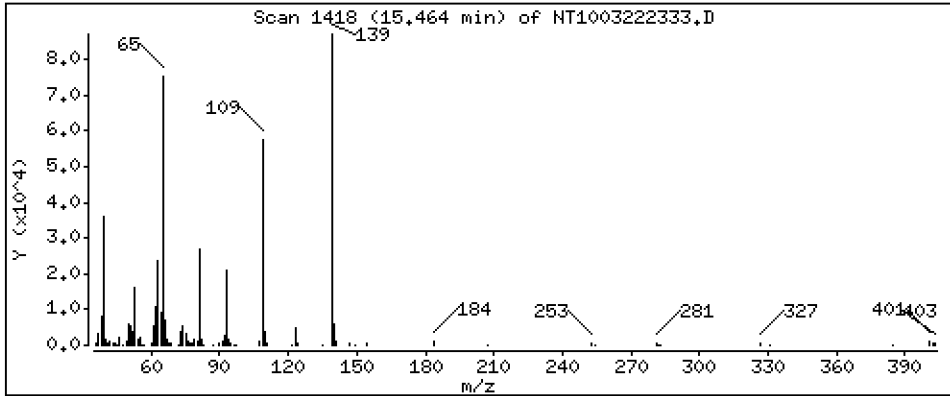
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

47 4-Nitrophenol

Concentration: 8,333 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

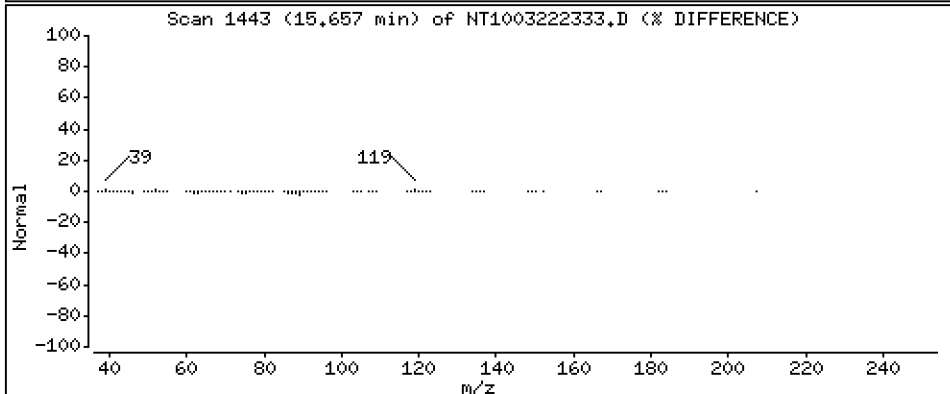
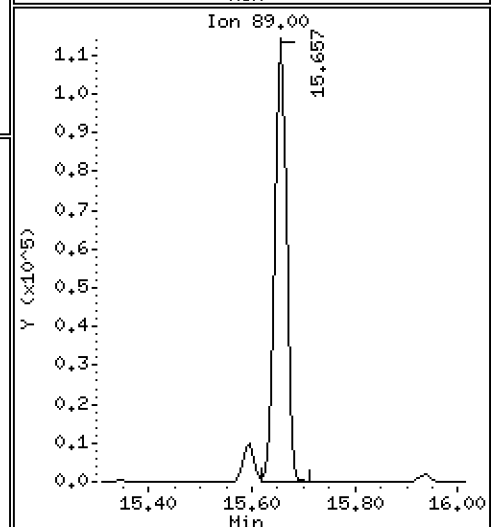
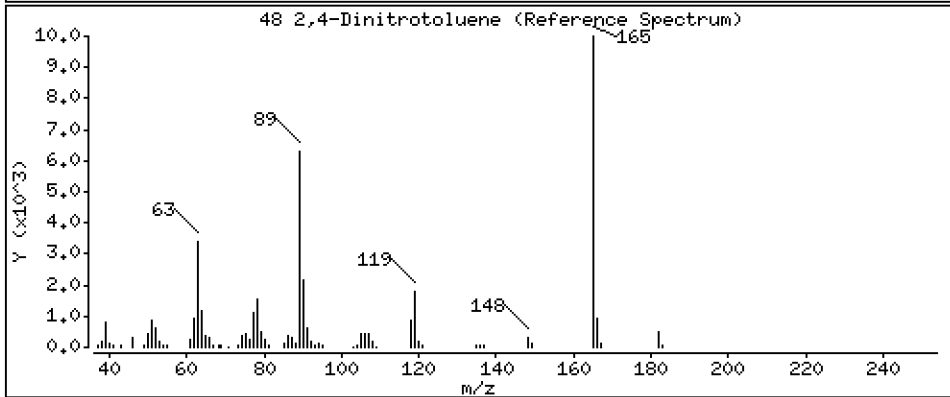
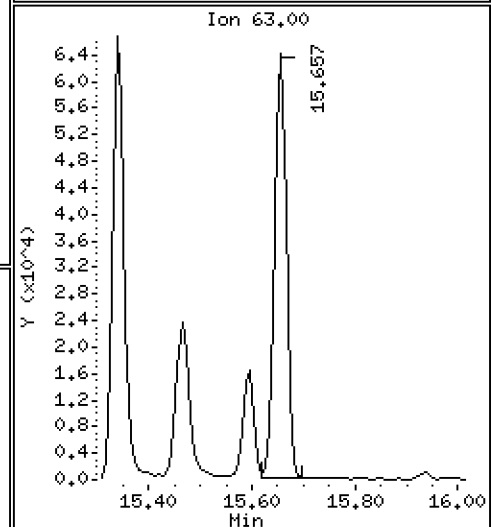
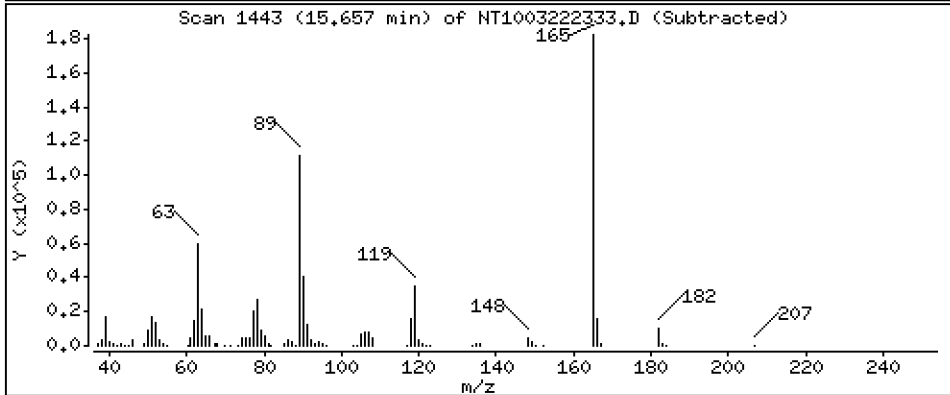
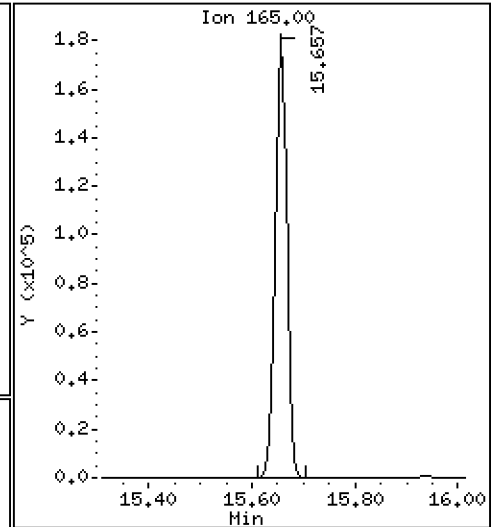
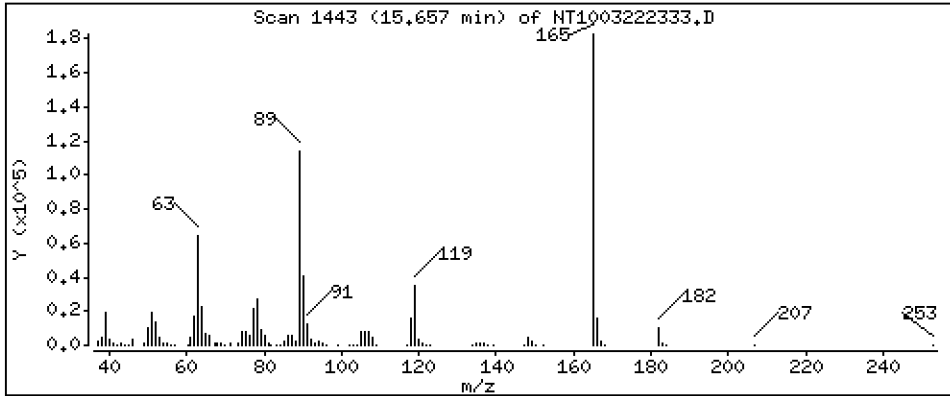
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

48 2,4-Dinitrotoluene

Concentration: 10,18 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

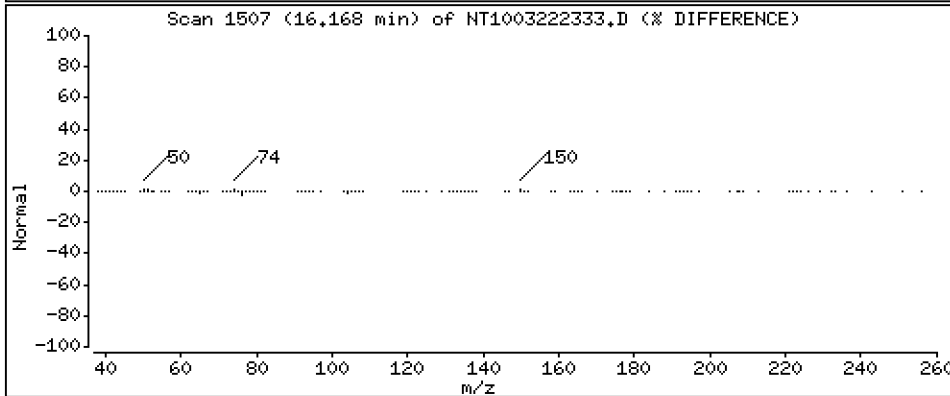
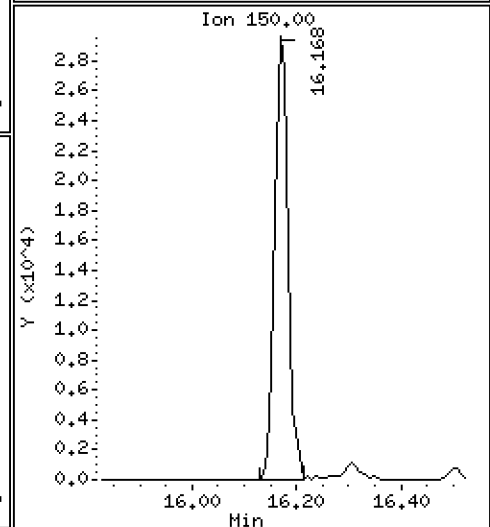
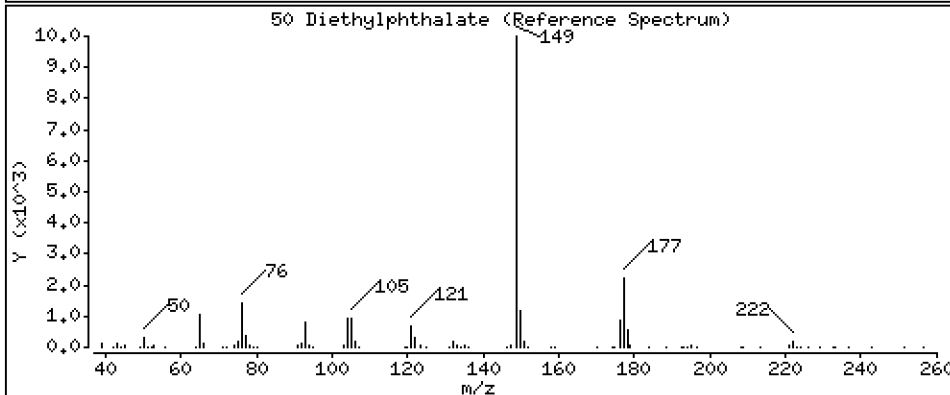
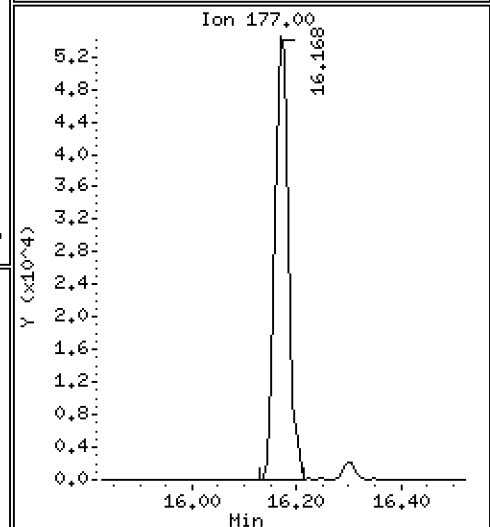
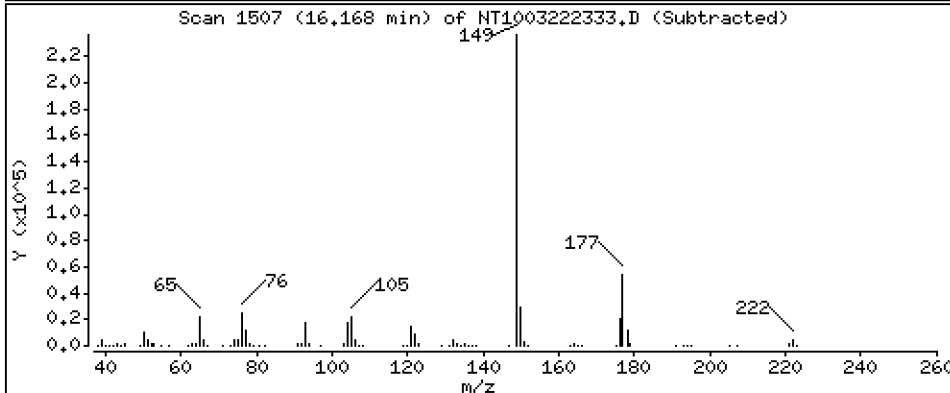
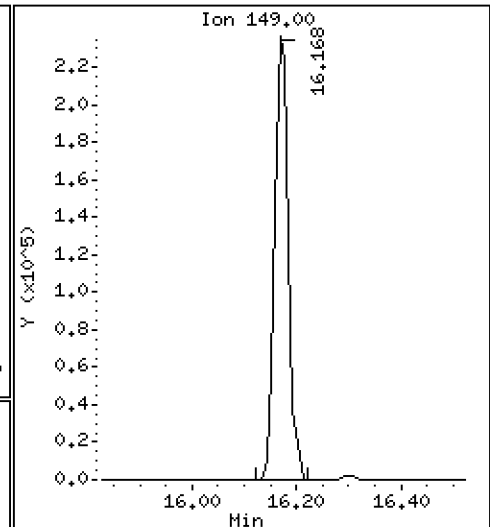
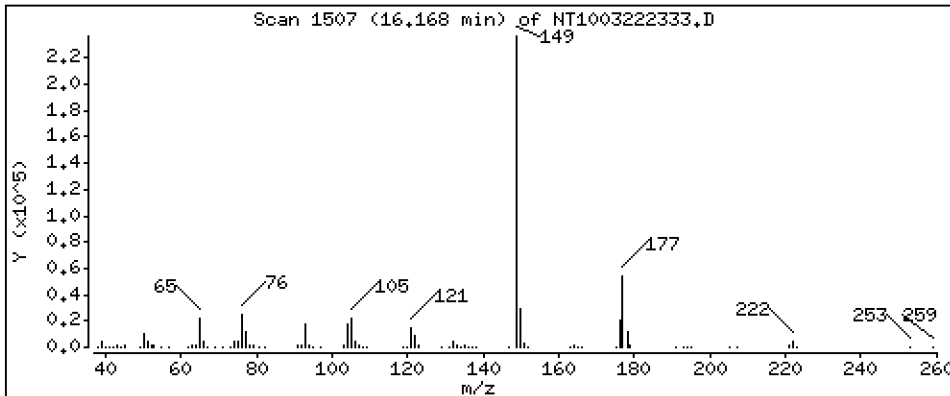
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 5,893 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

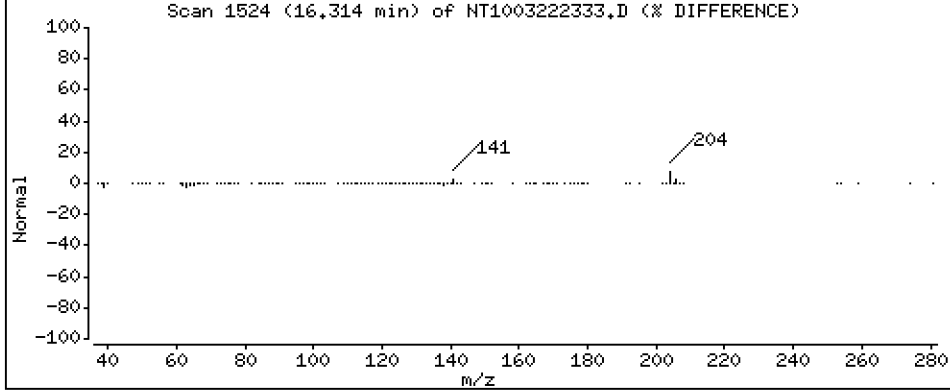
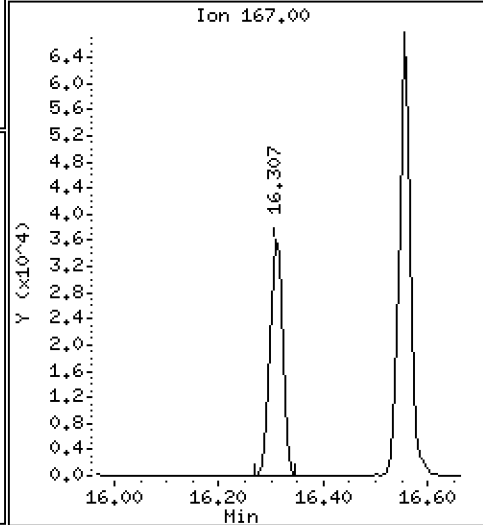
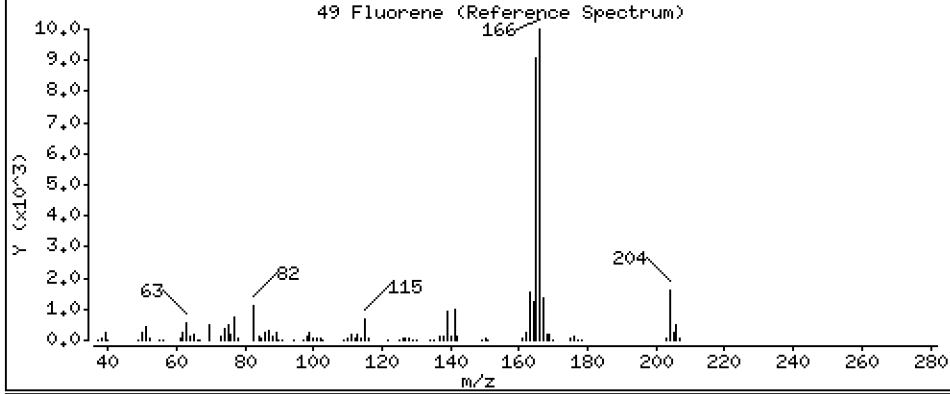
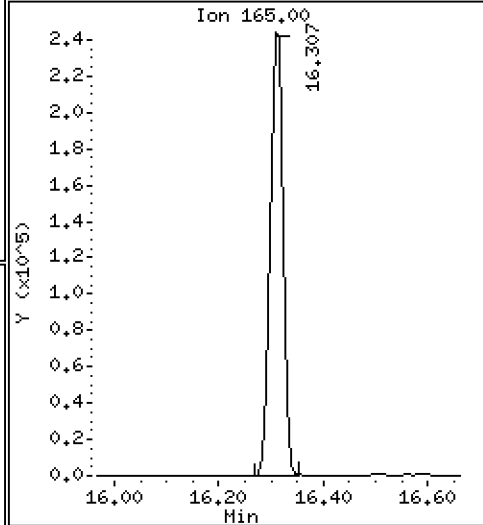
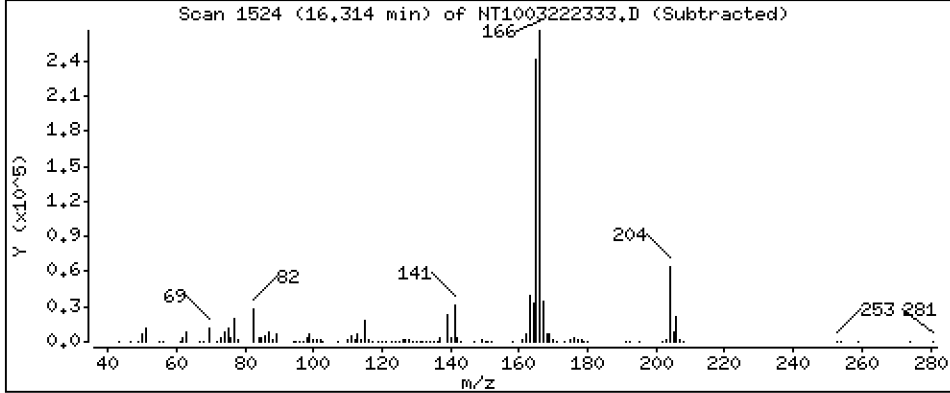
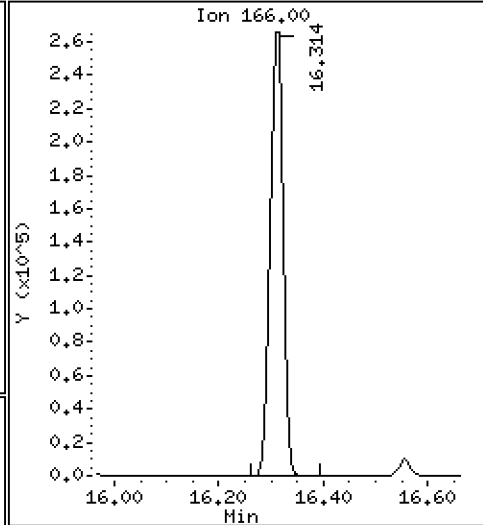
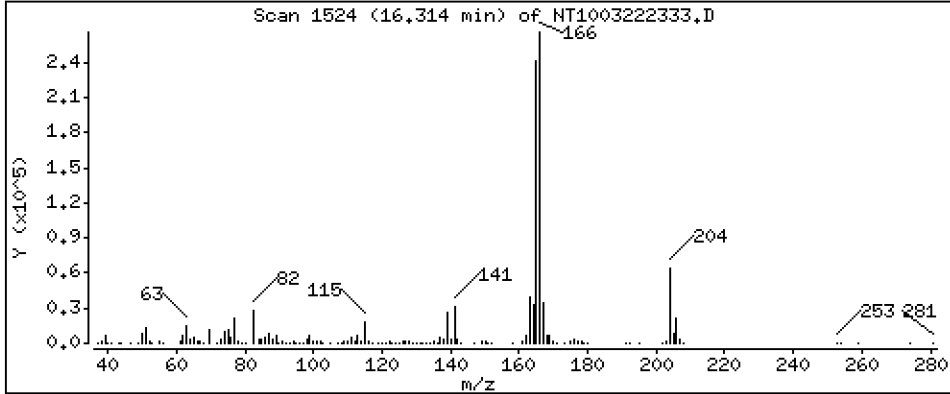
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 4,997 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

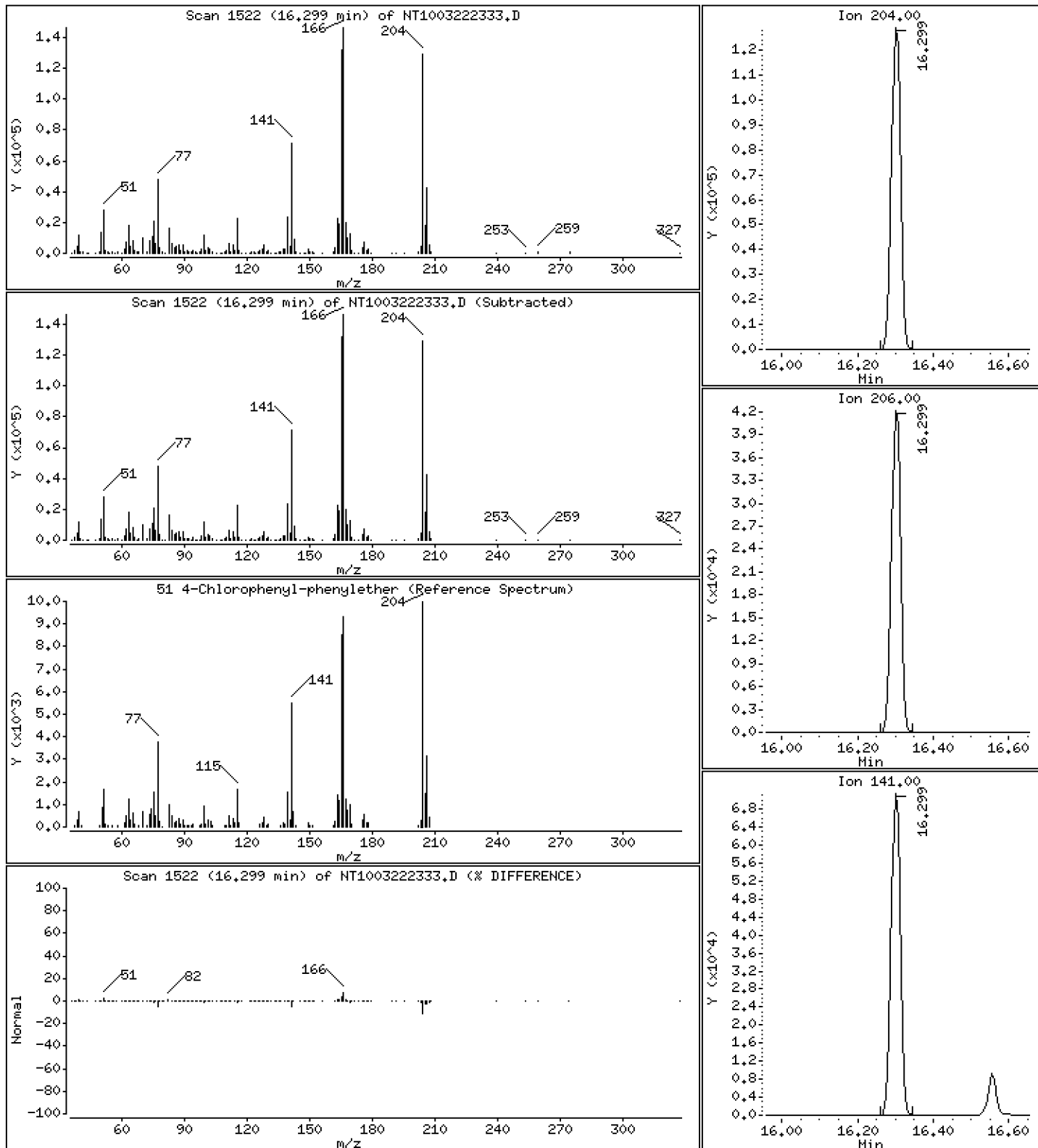
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 5,008 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

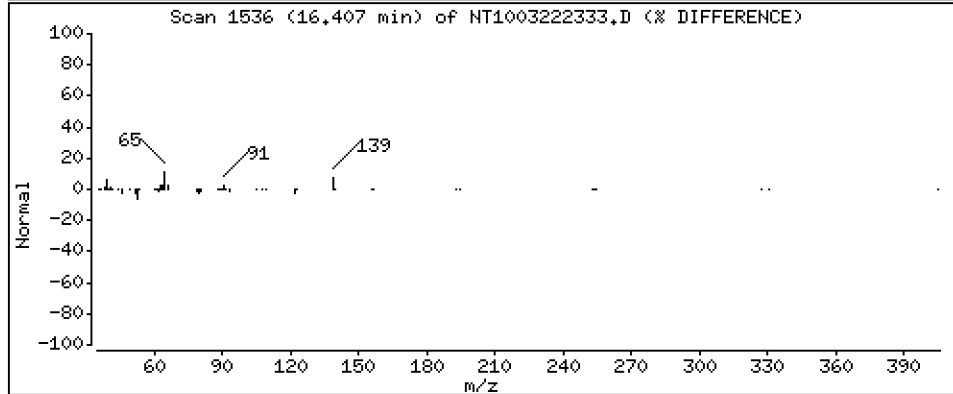
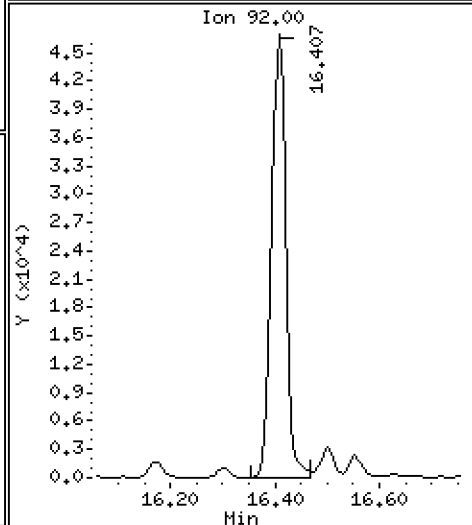
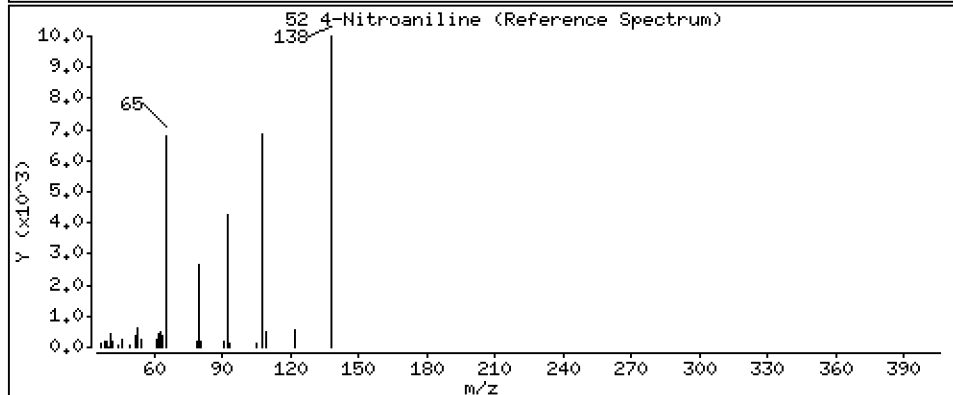
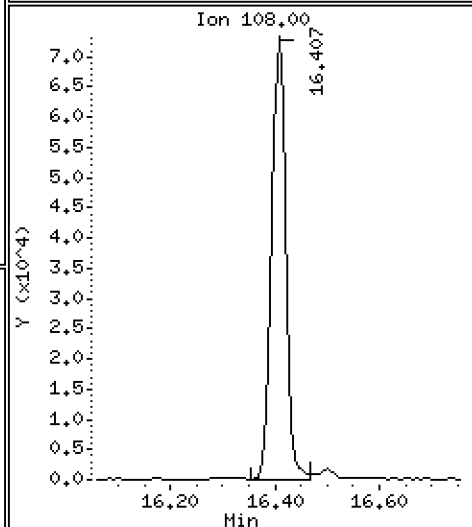
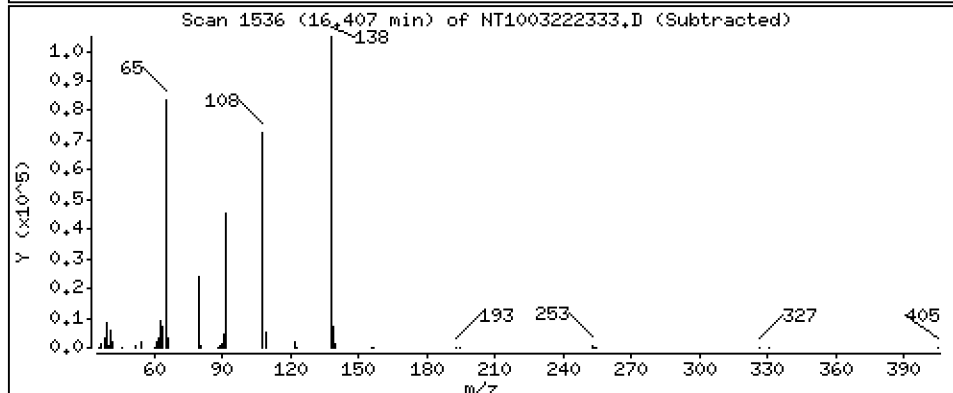
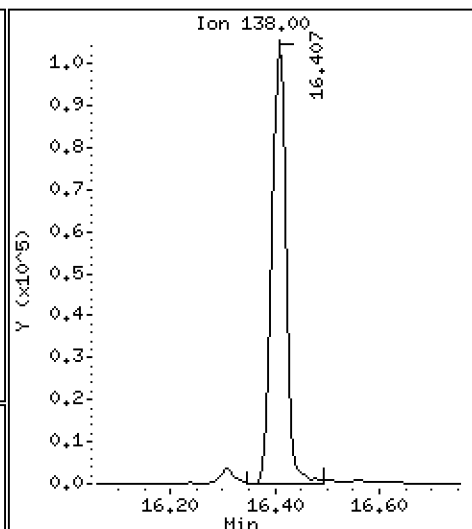
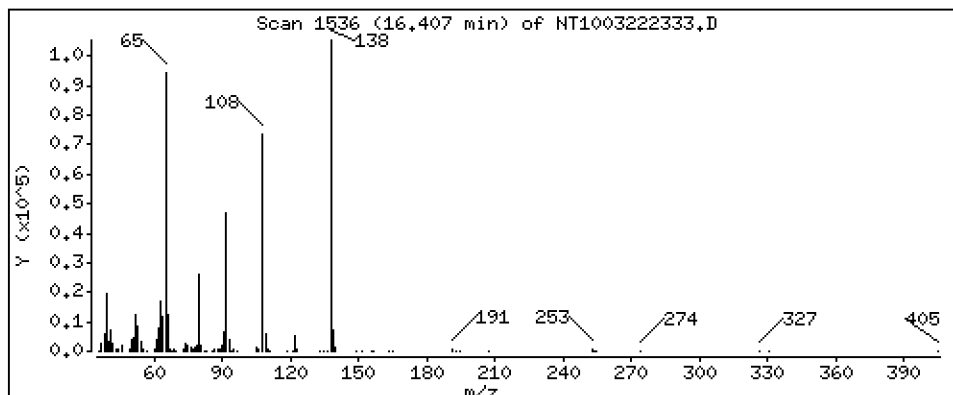
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

52 4-Nitroaniline

Concentration: 10,87 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

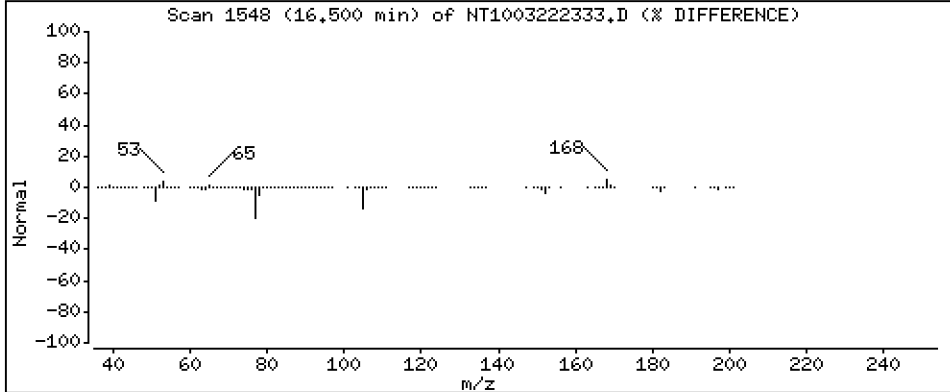
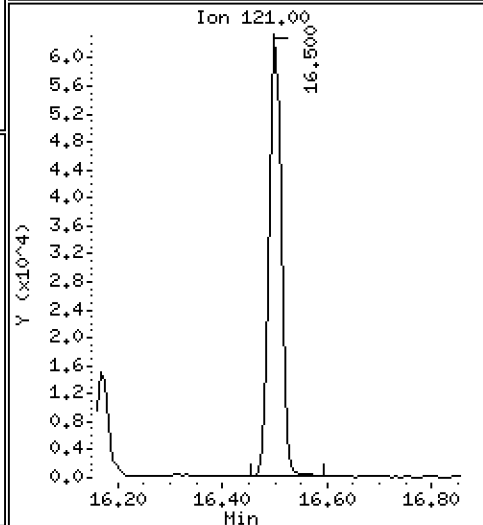
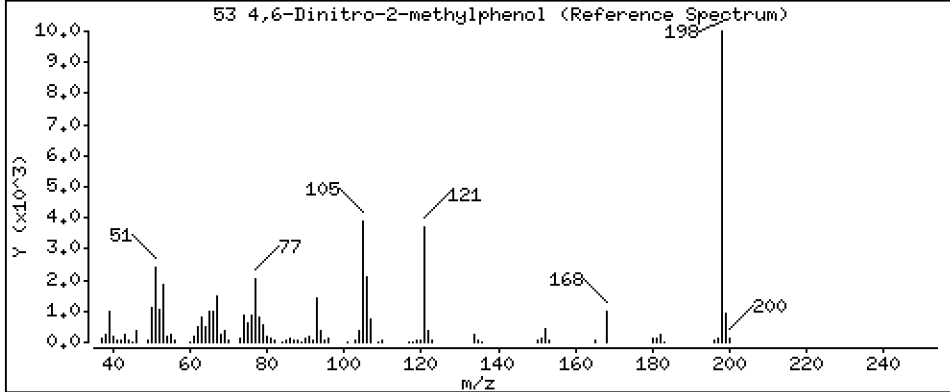
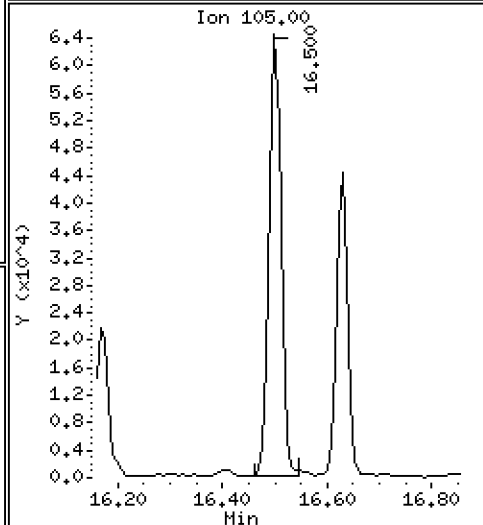
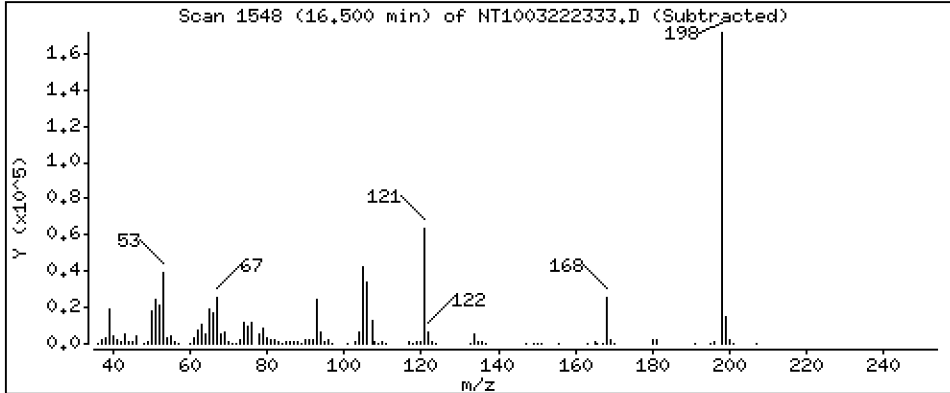
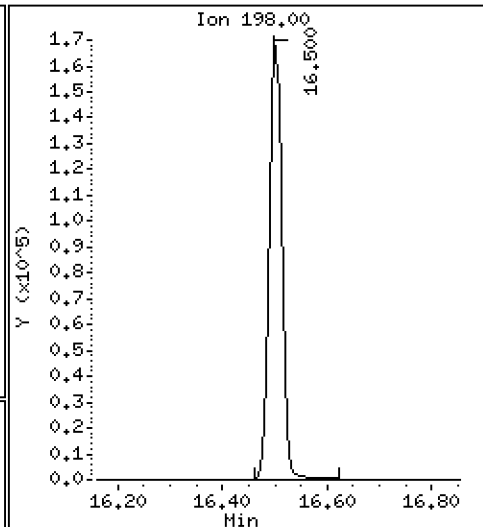
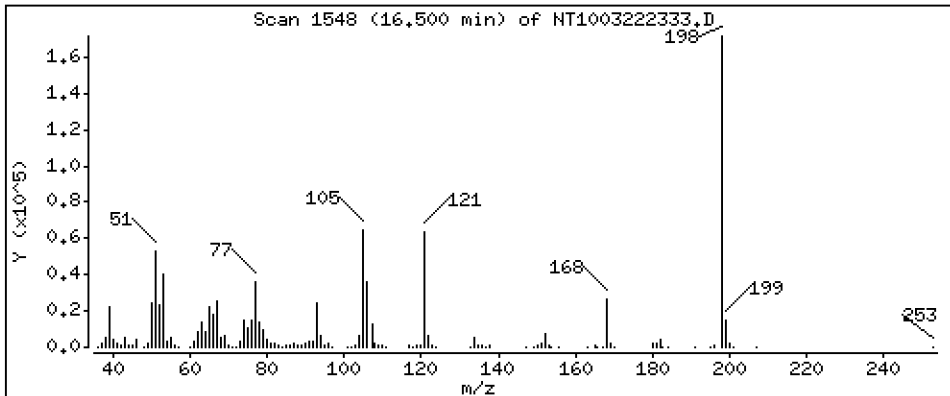
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

53 4,6-Dinitro-2-methylphenol

Concentration: 18,97 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

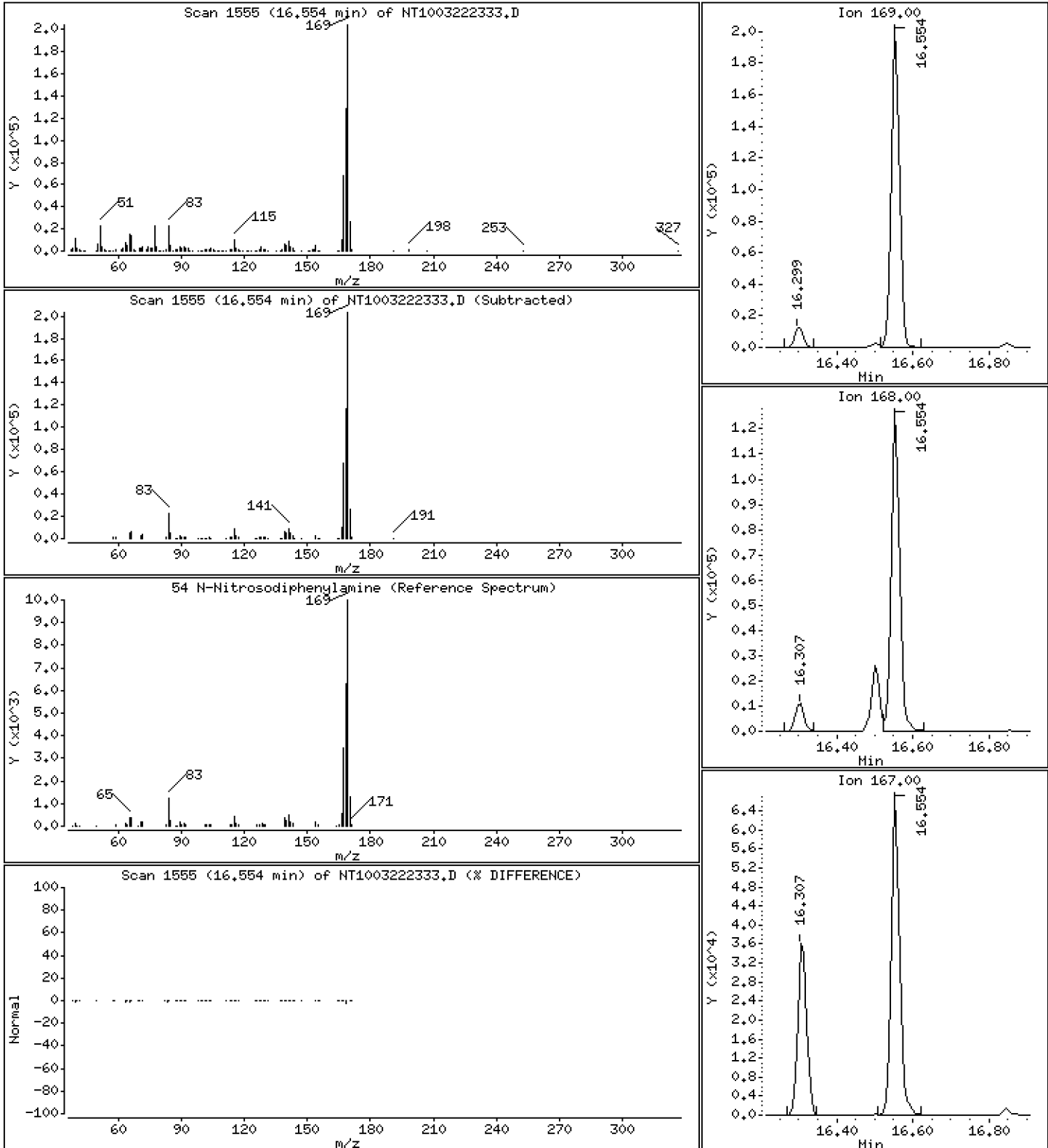
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

54 N-Nitrosodiphenylamine

Concentration: 4,692 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

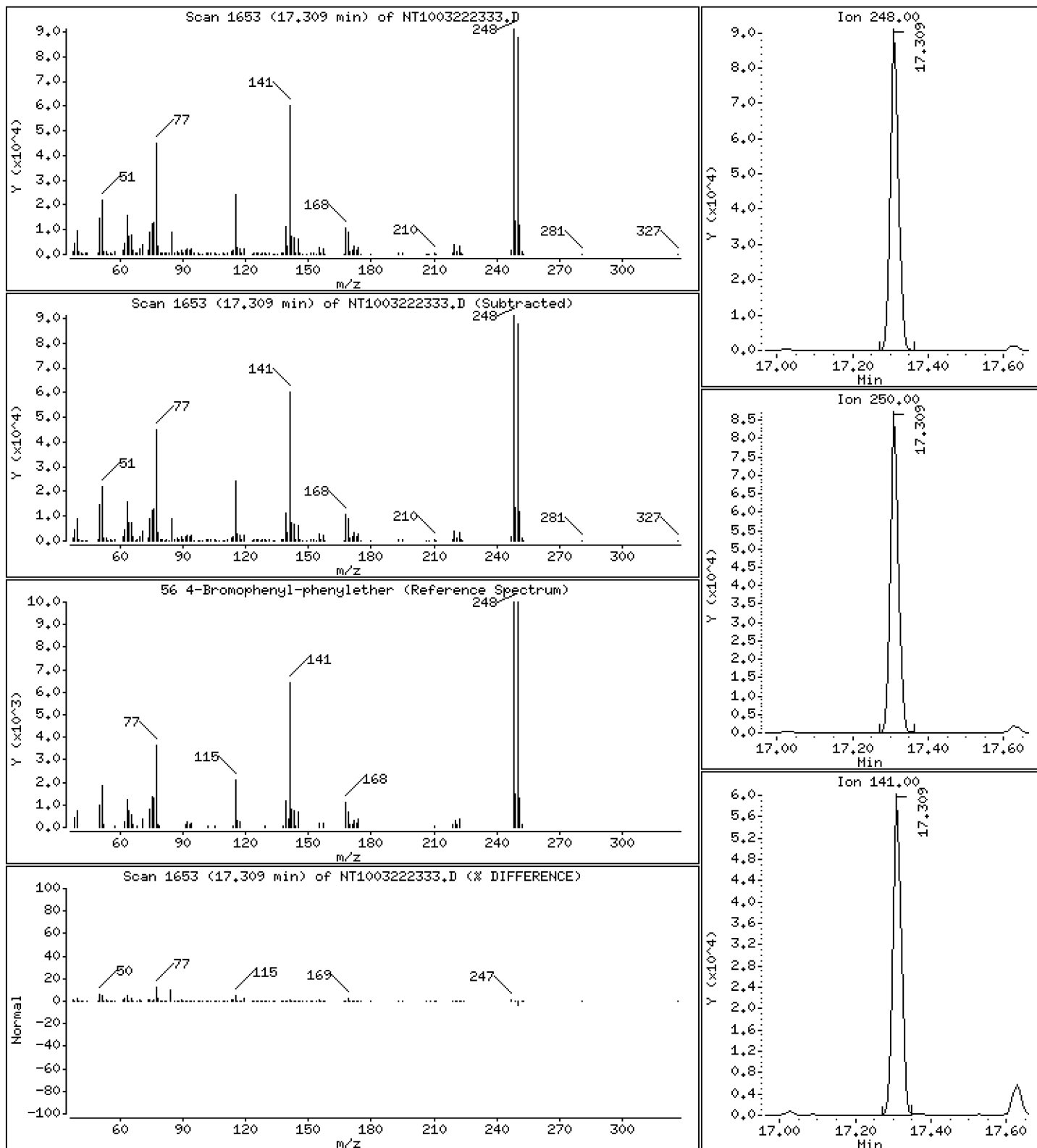
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 5,276 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

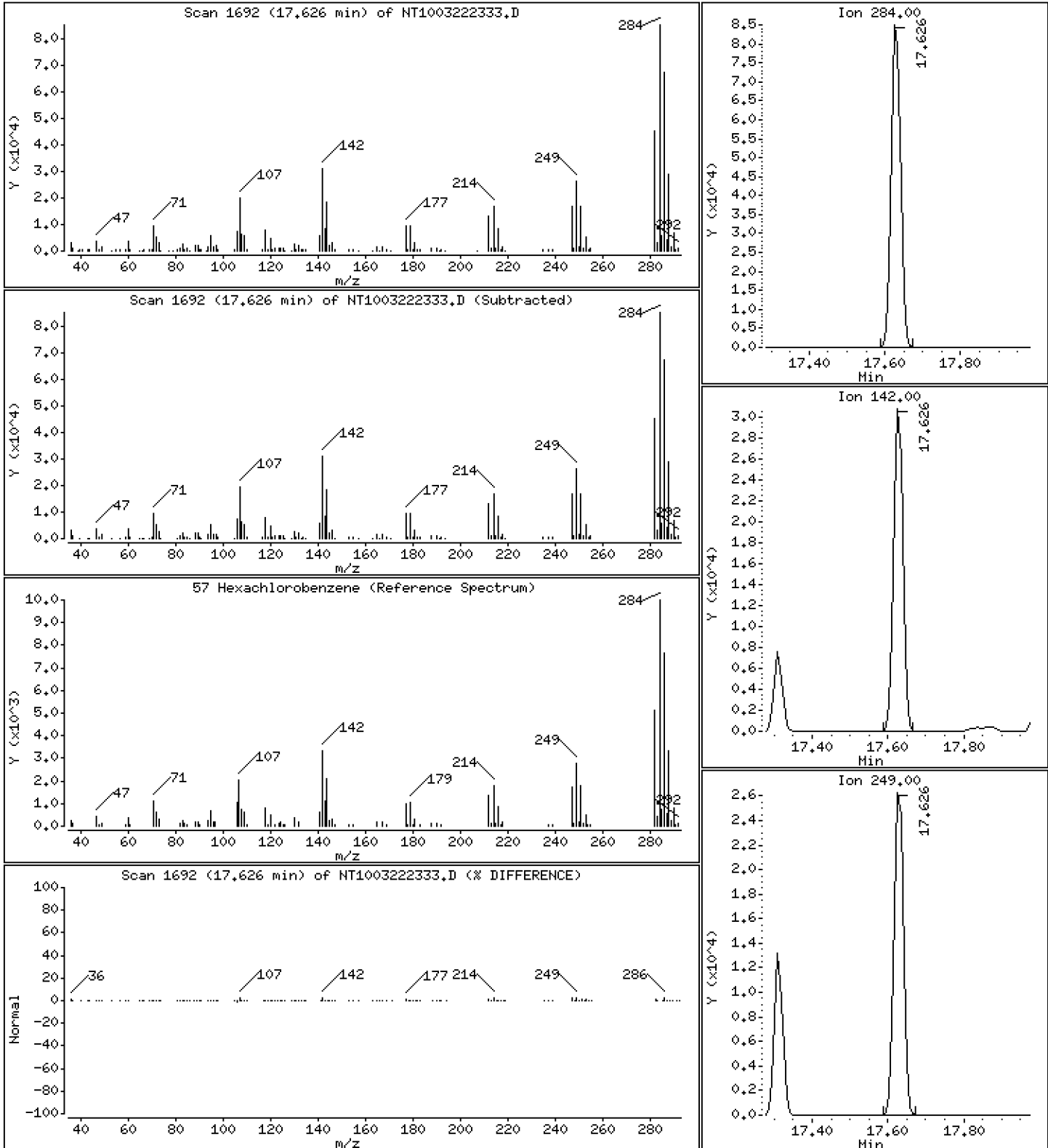
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

57 Hexachlorobenzene

Concentration: 5,266 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

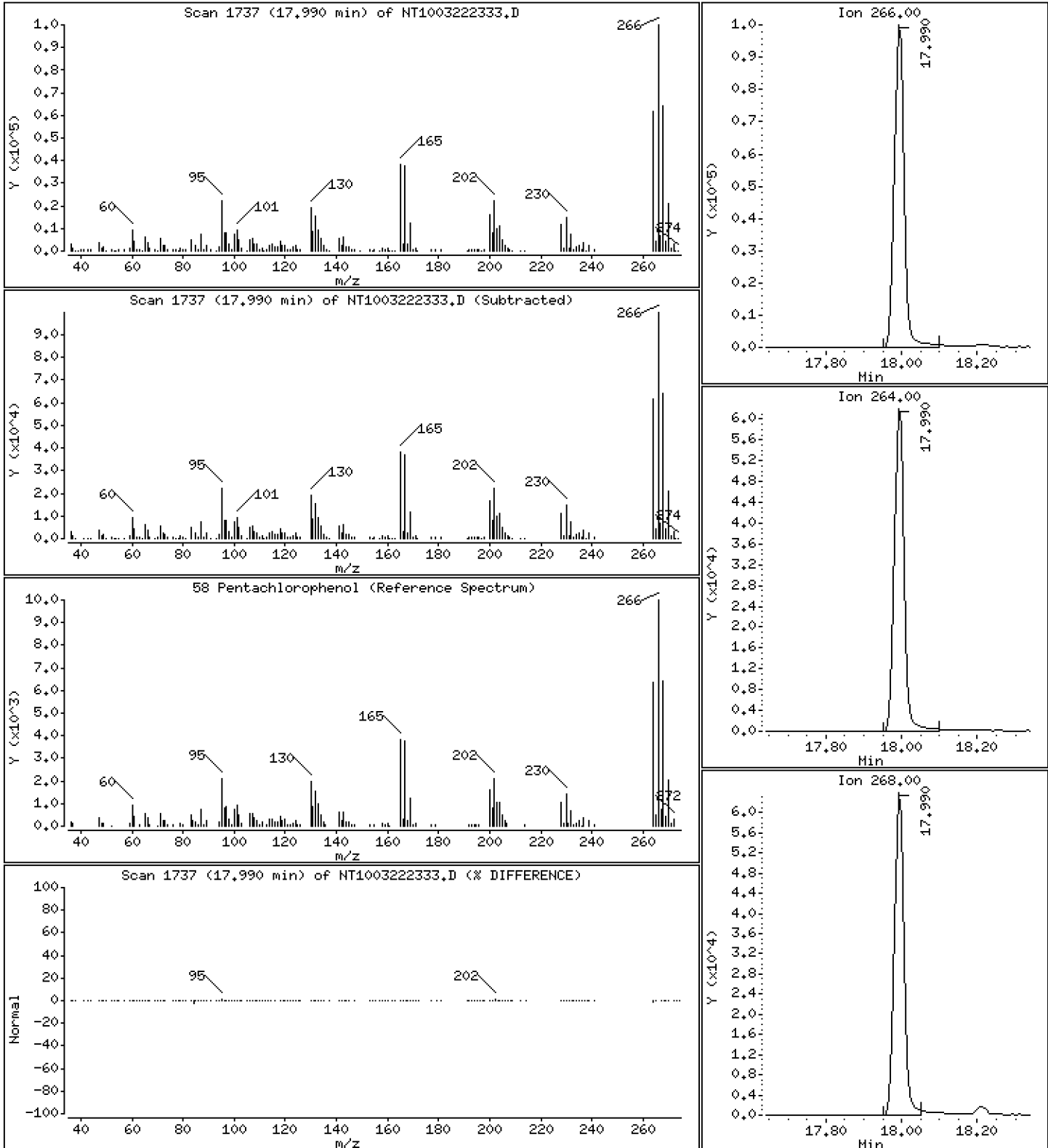
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 10,53 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

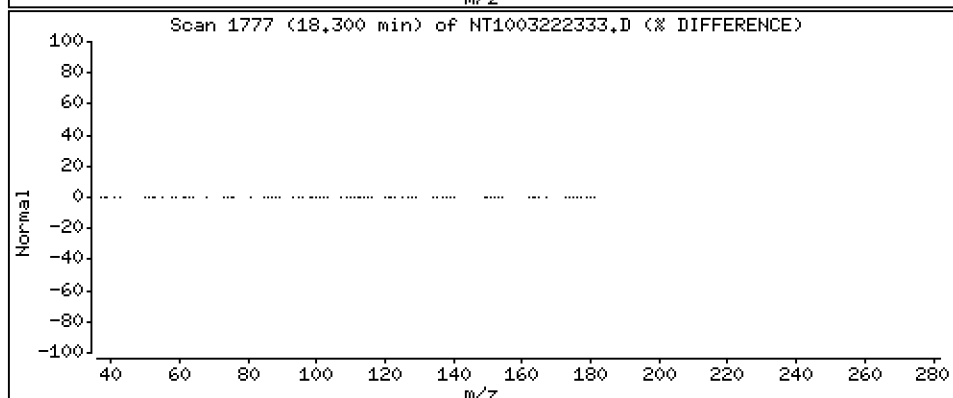
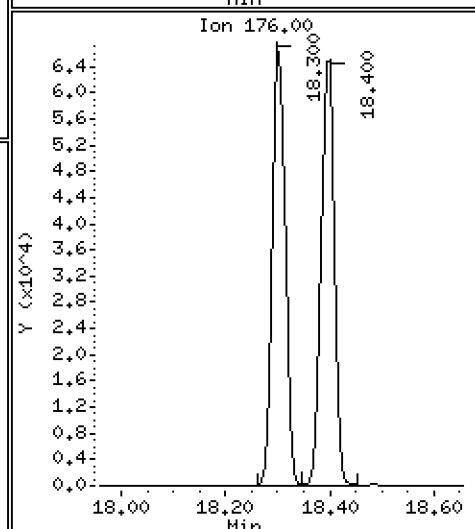
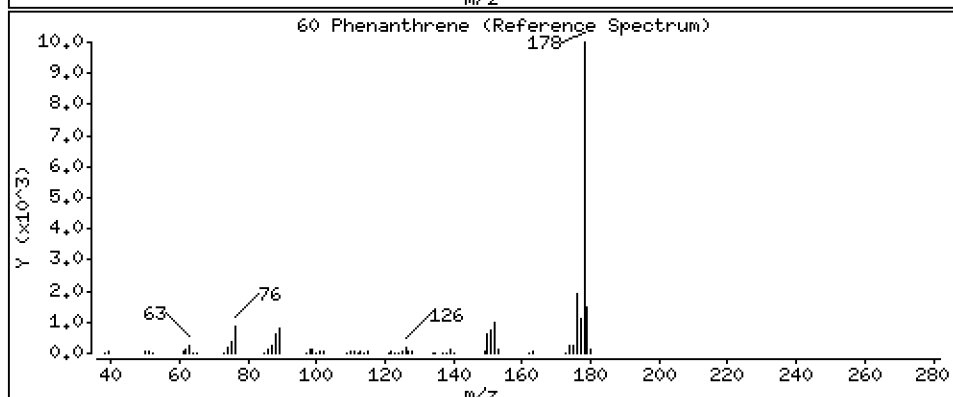
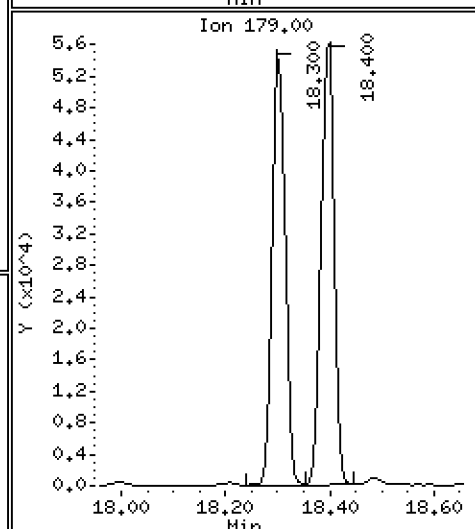
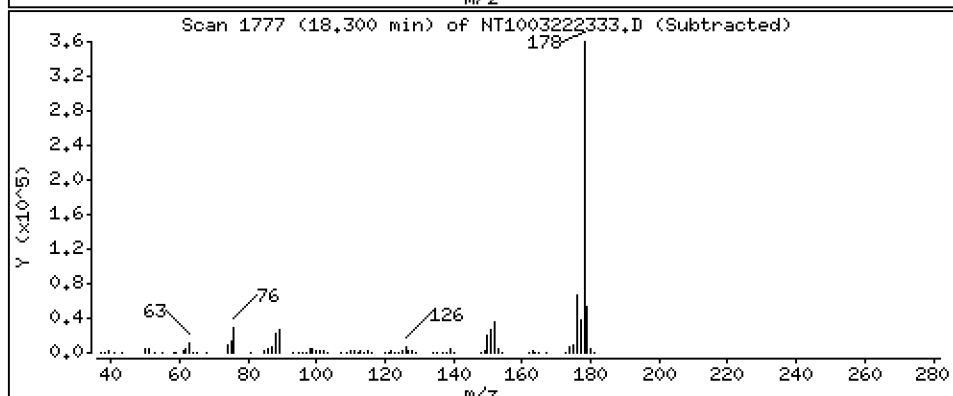
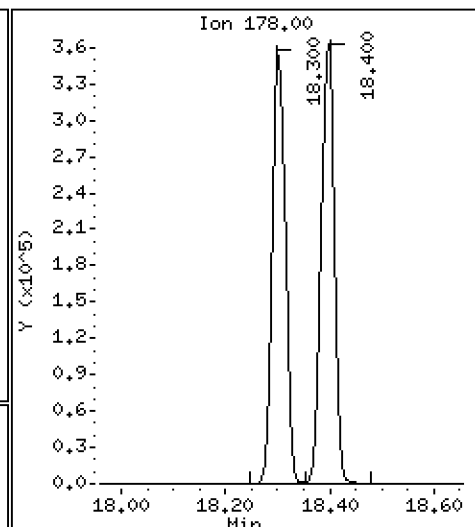
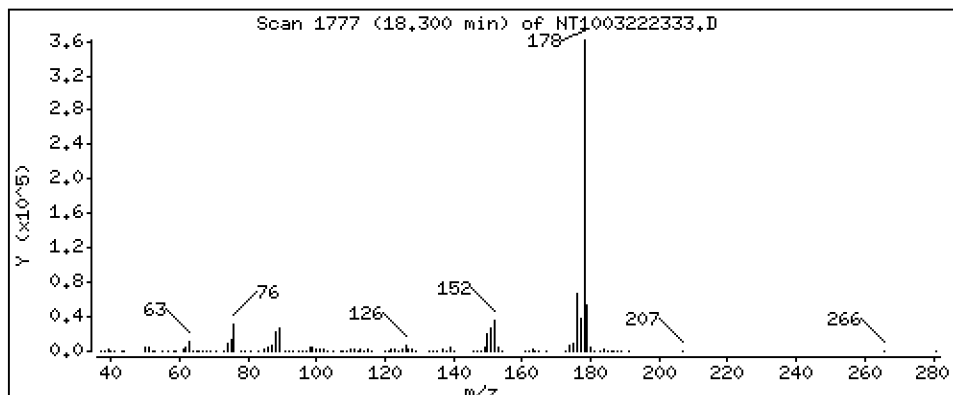
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 4,787 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

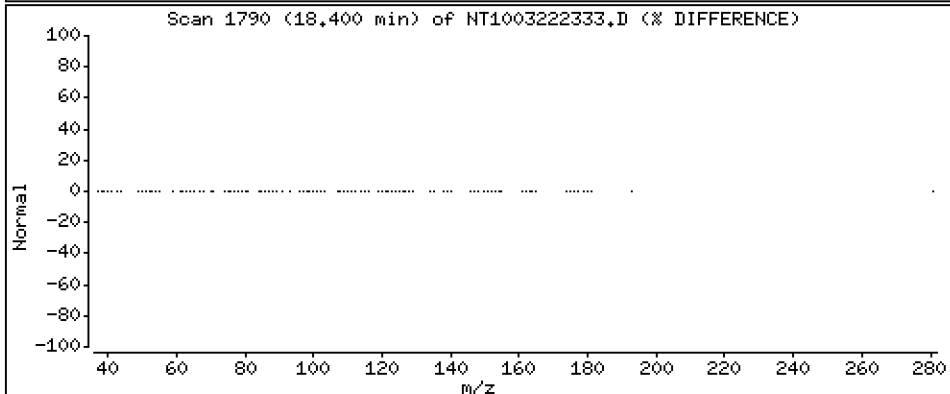
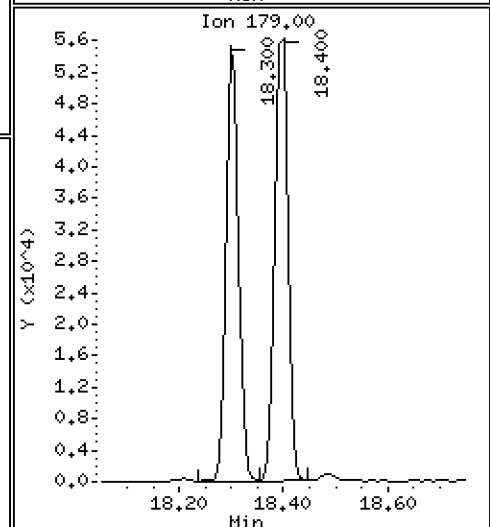
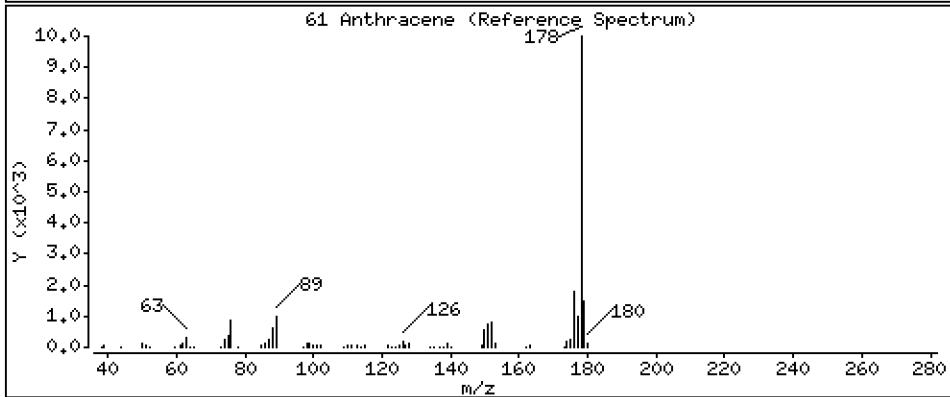
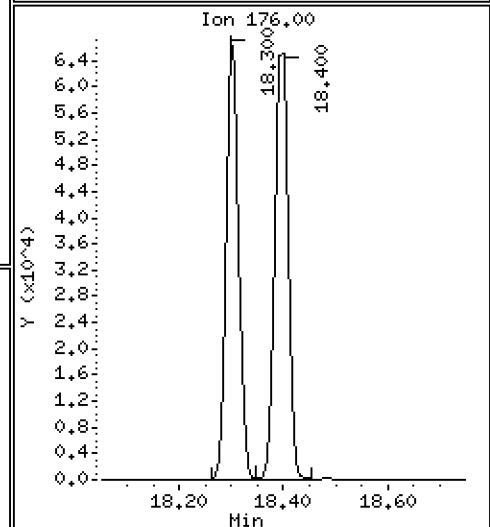
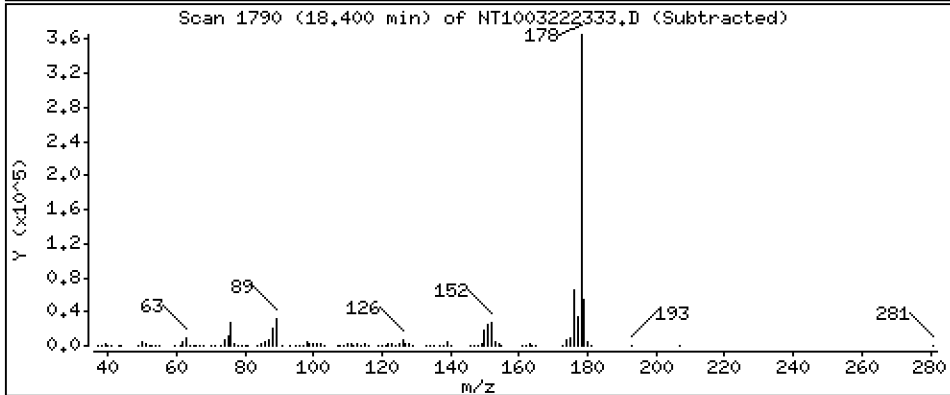
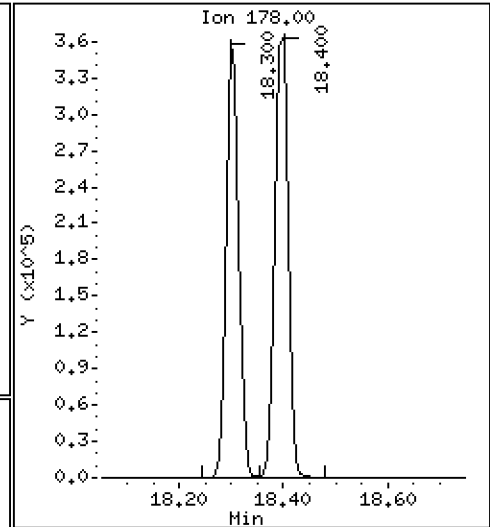
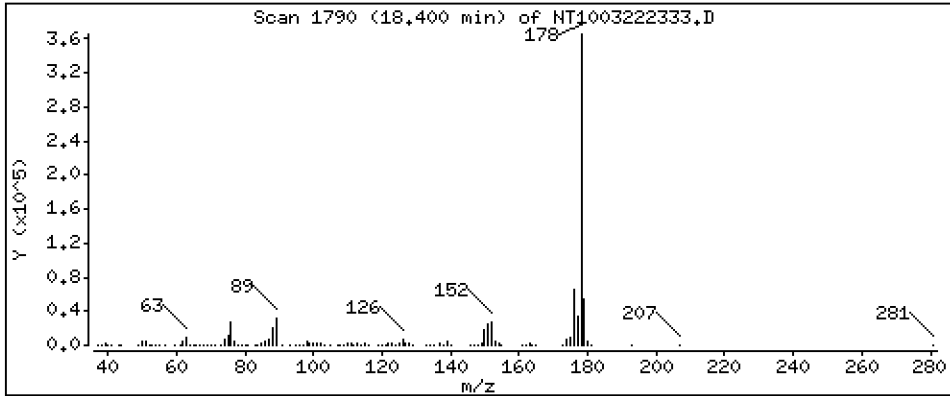
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 5,079 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

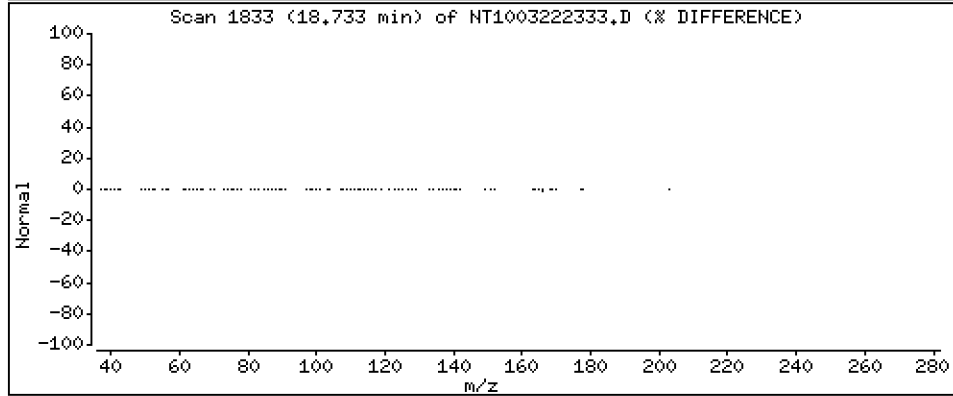
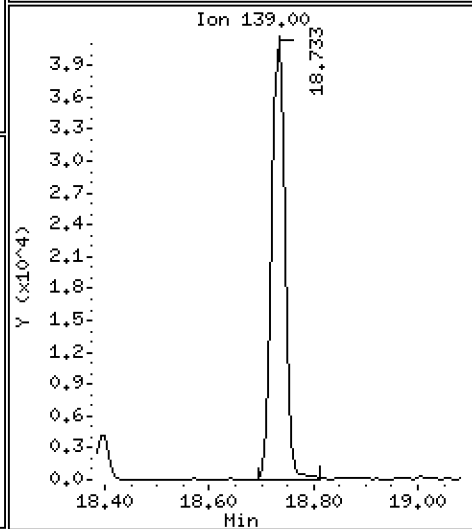
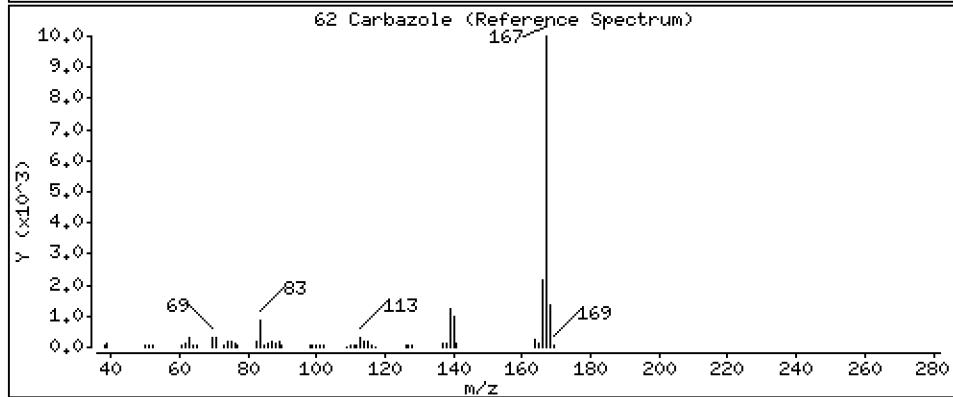
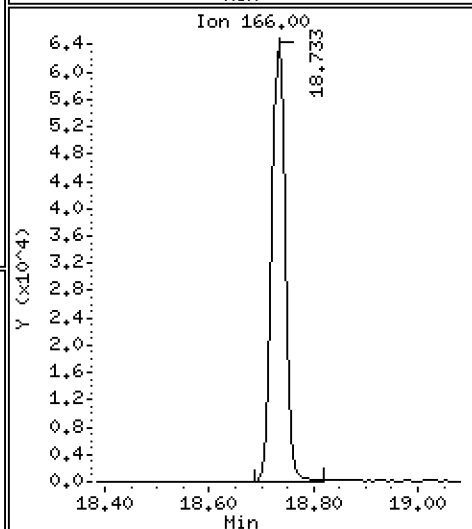
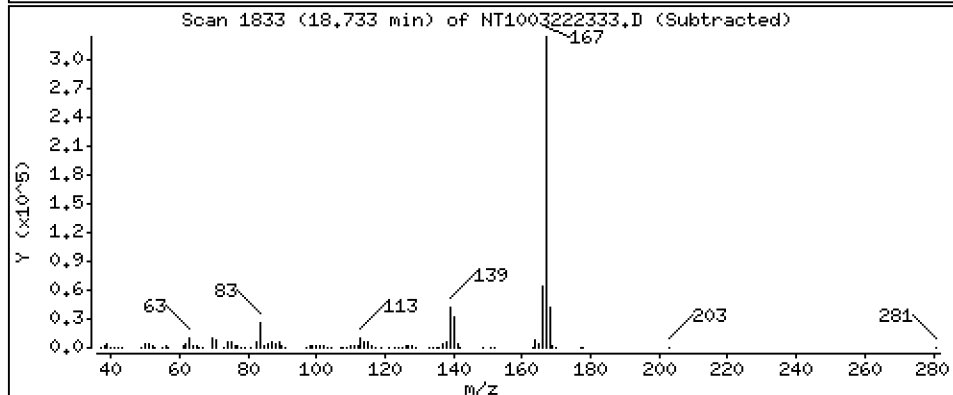
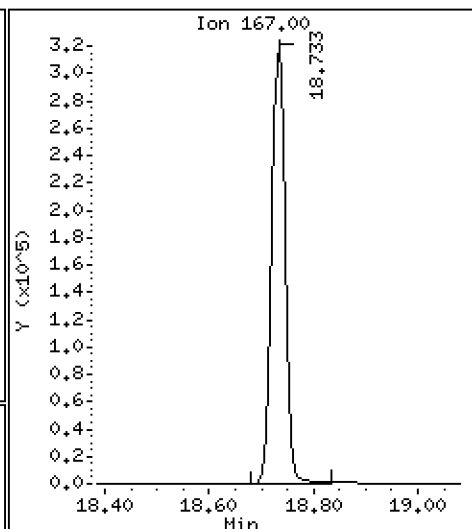
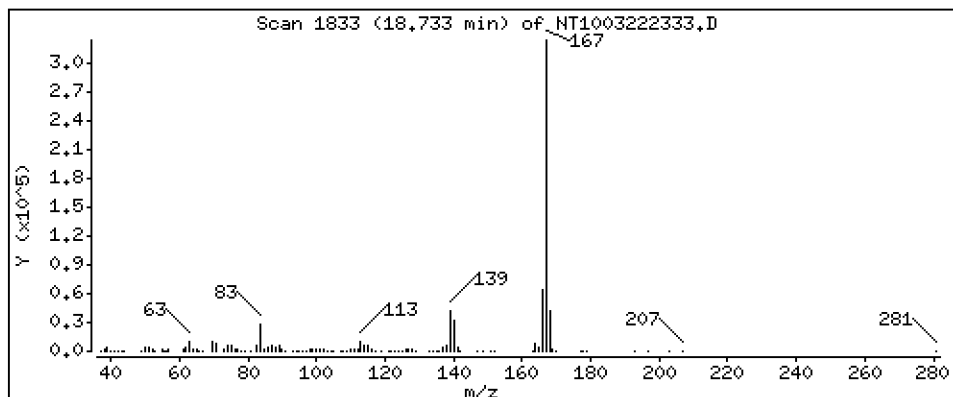
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 5,109 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

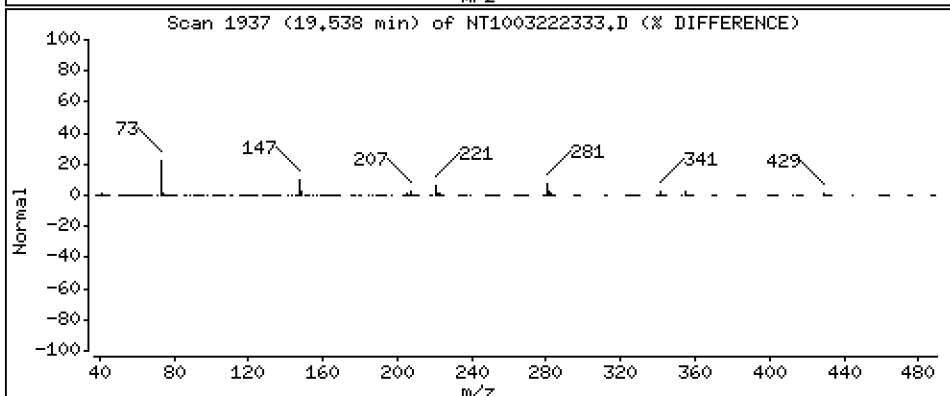
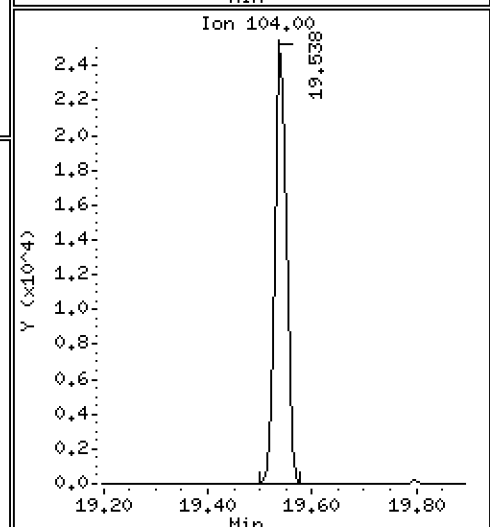
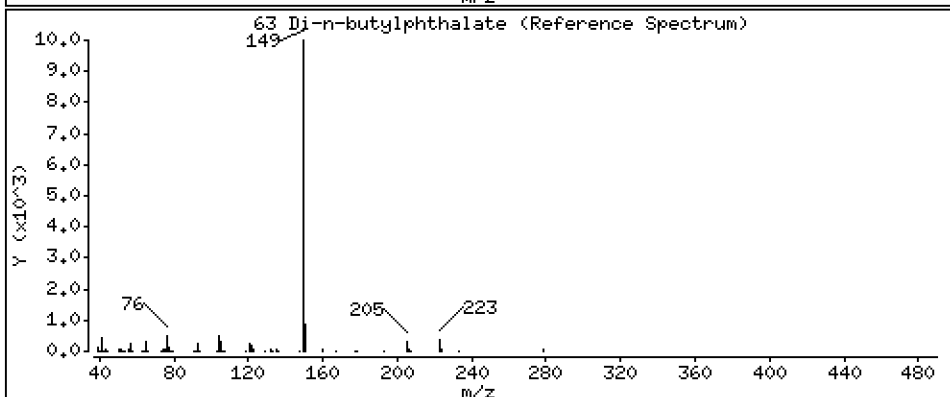
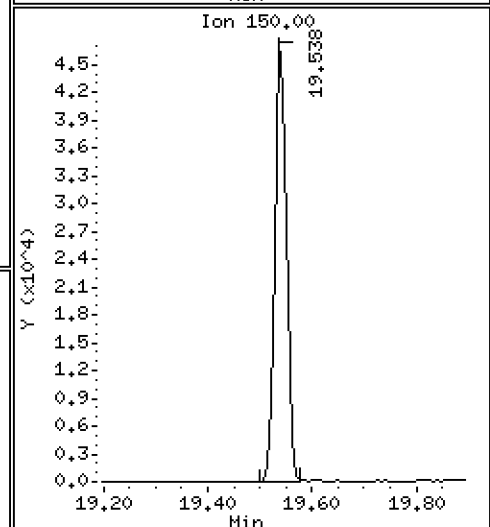
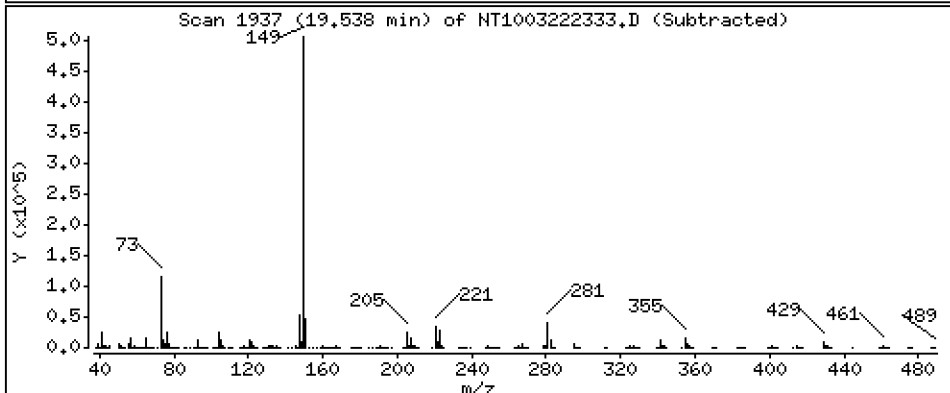
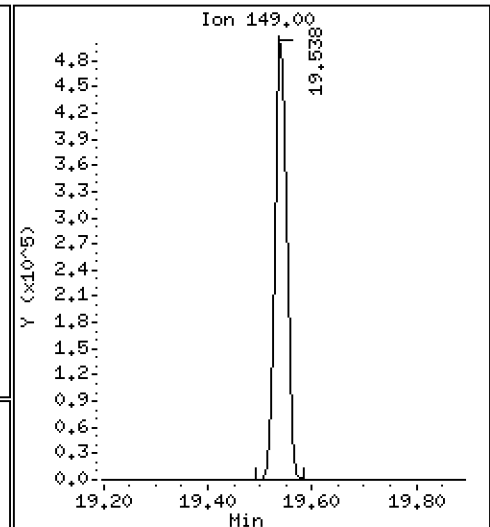
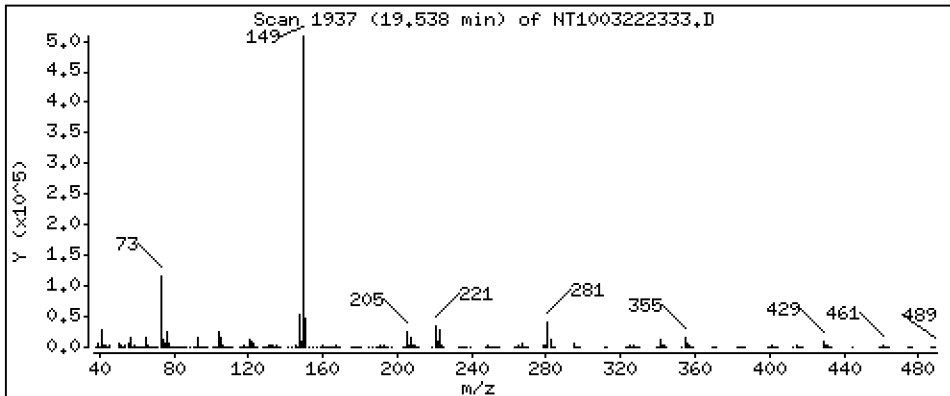
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 5,263 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

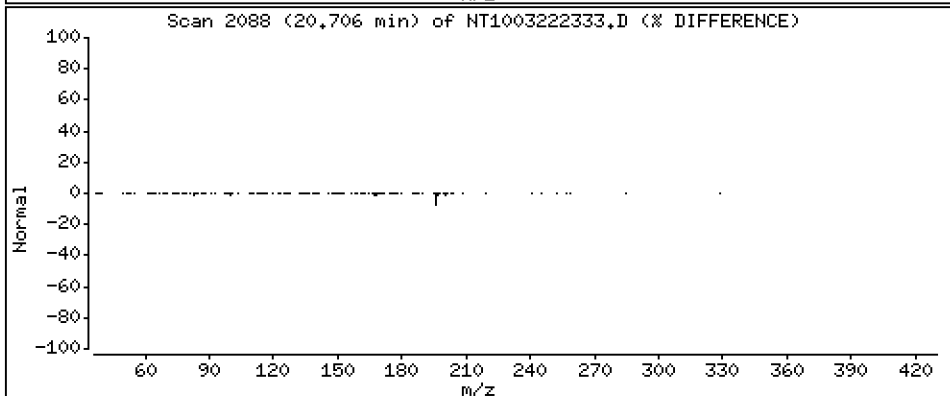
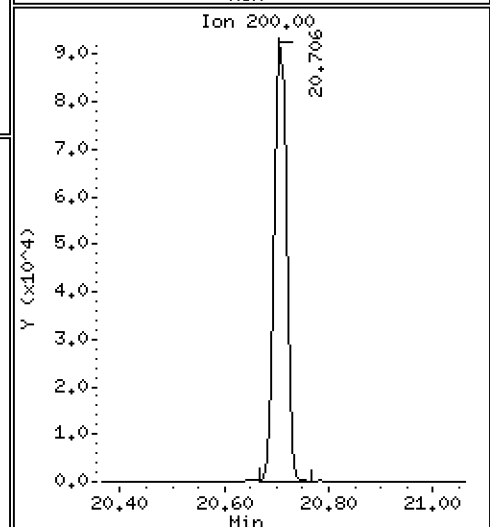
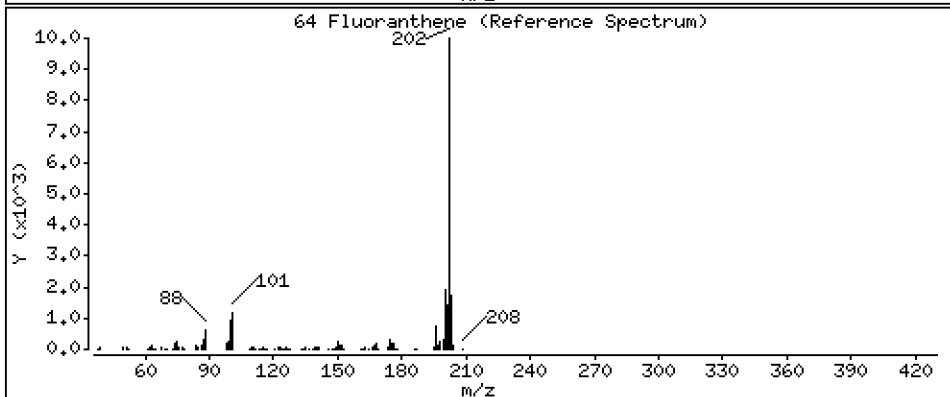
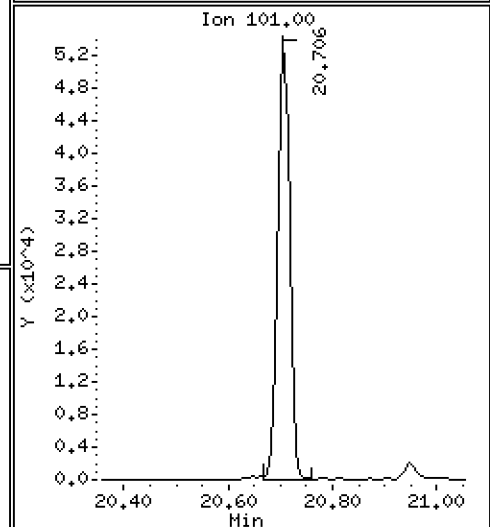
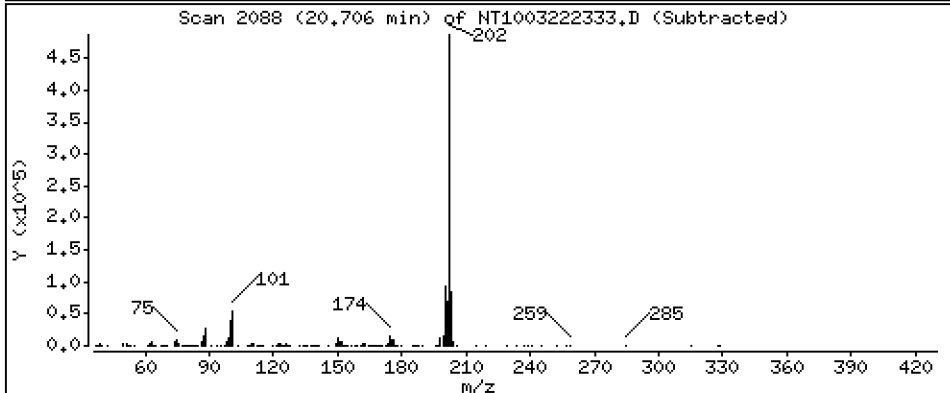
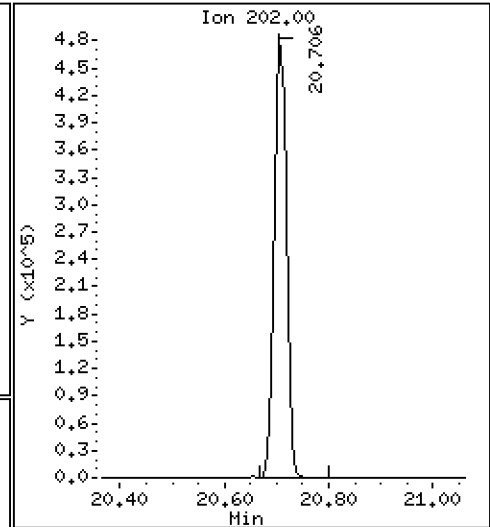
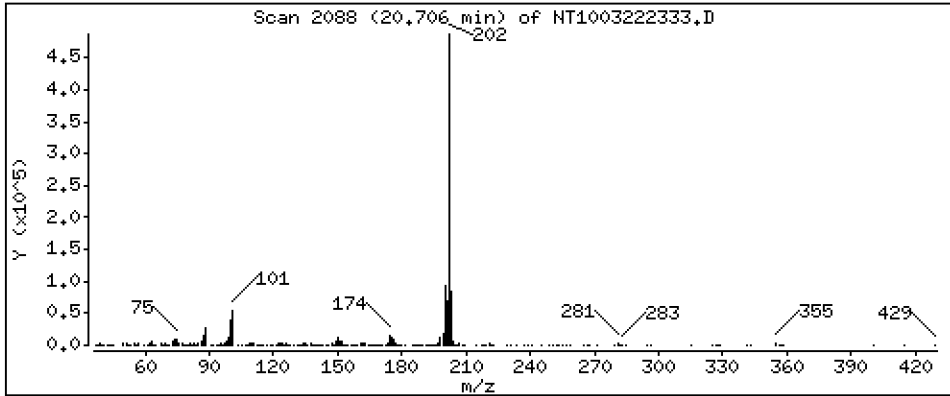
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 4,100 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

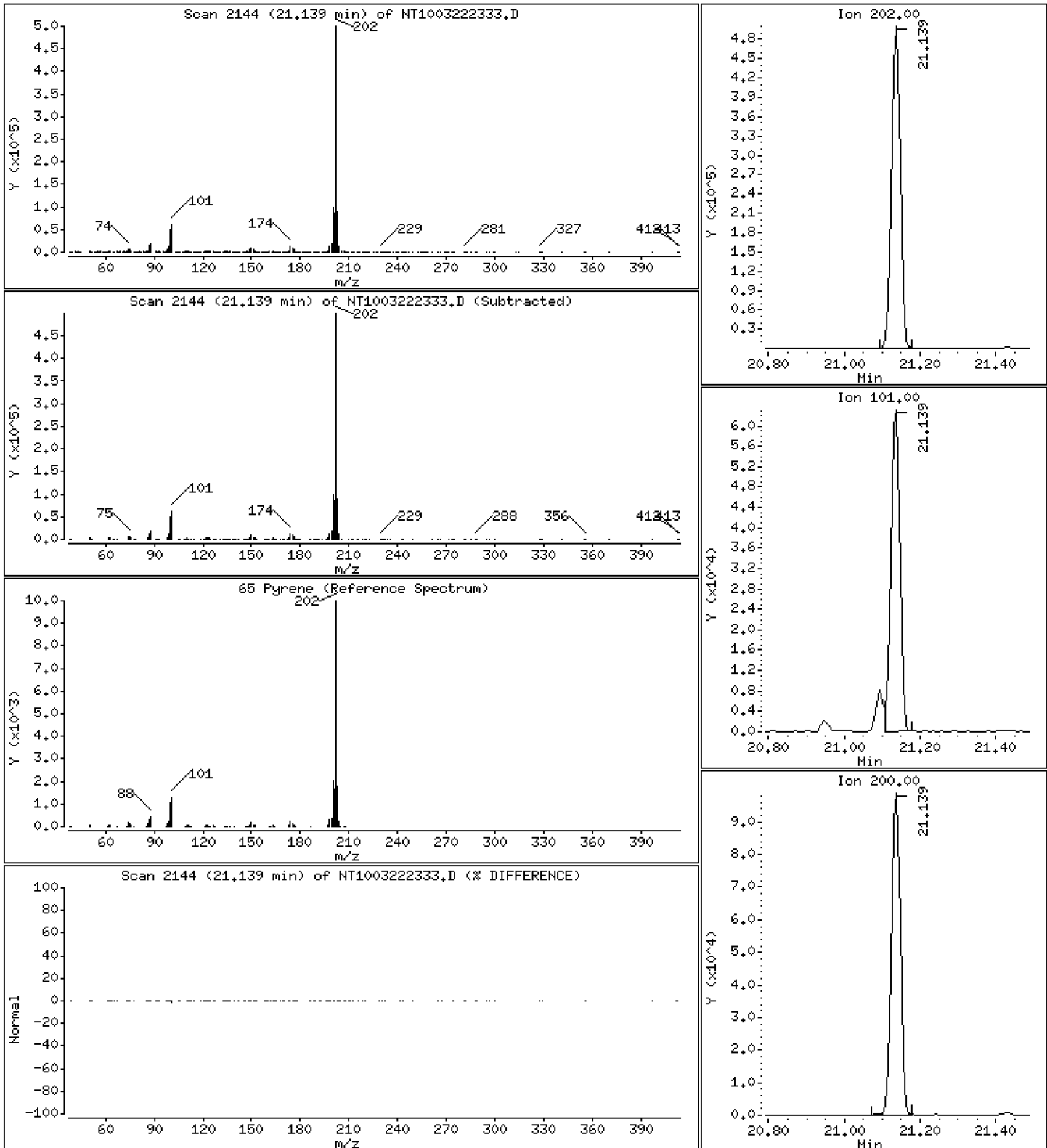
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 4,158 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

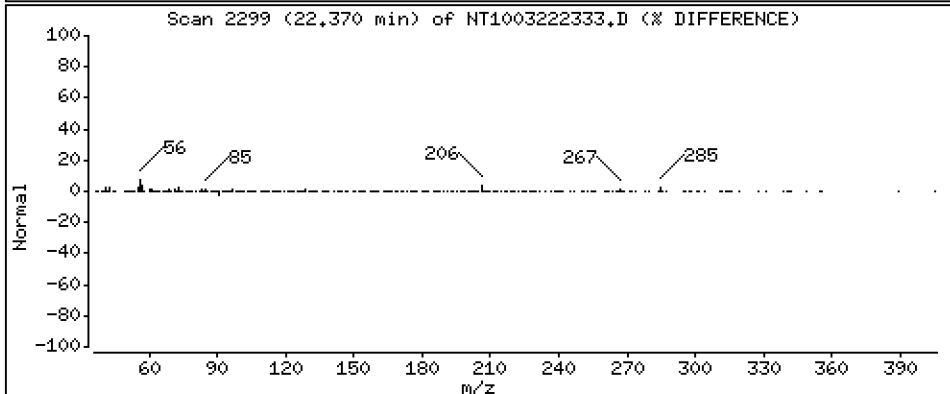
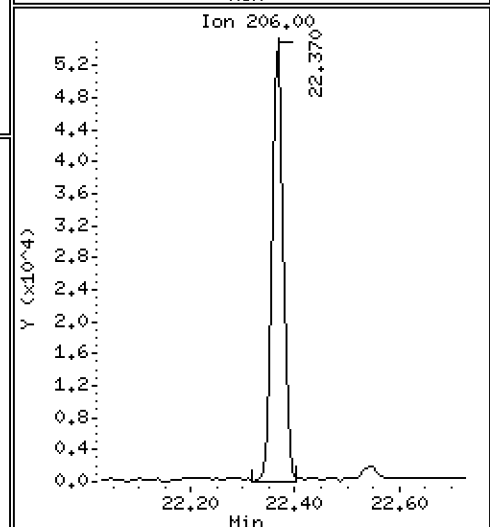
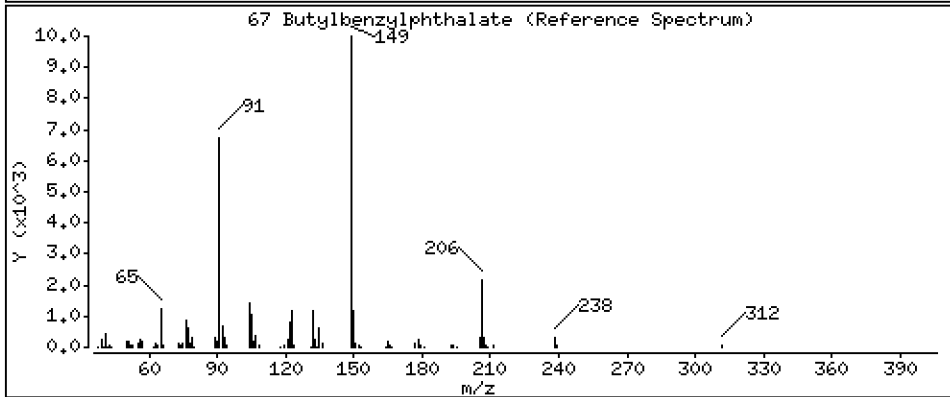
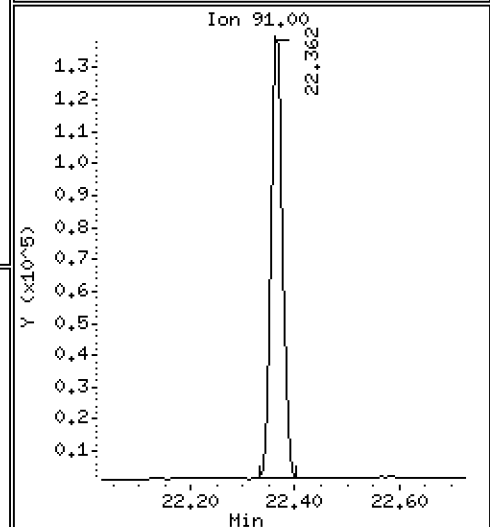
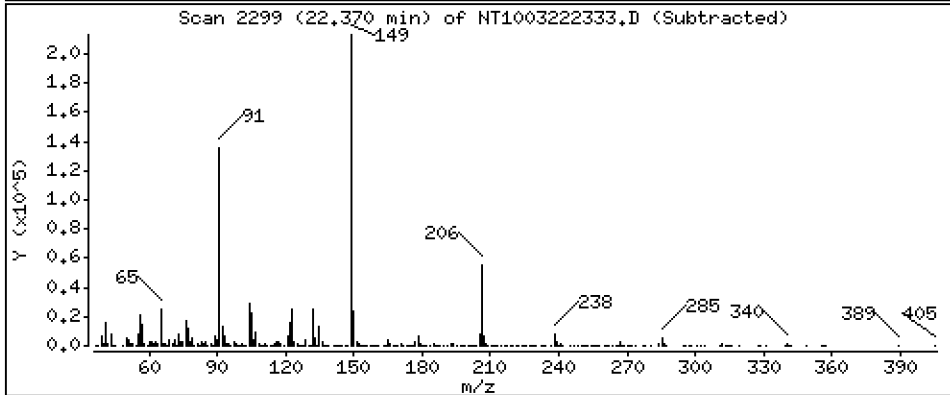
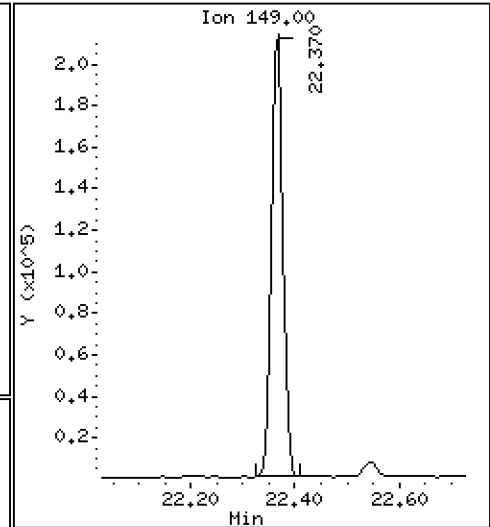
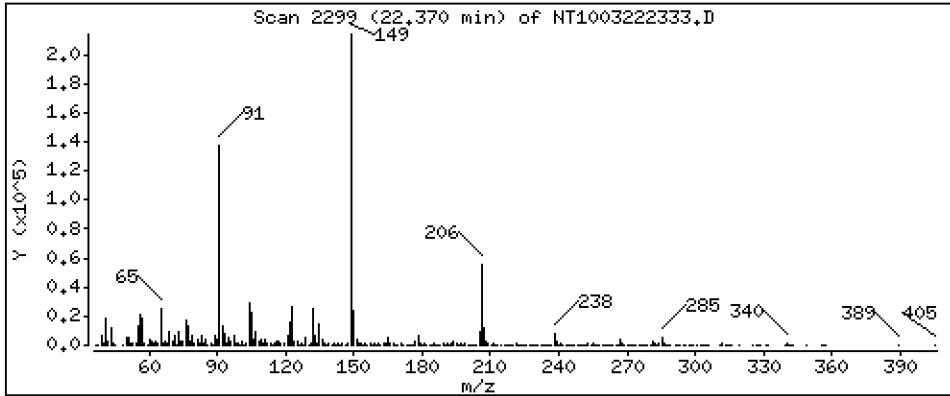
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 4,896 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

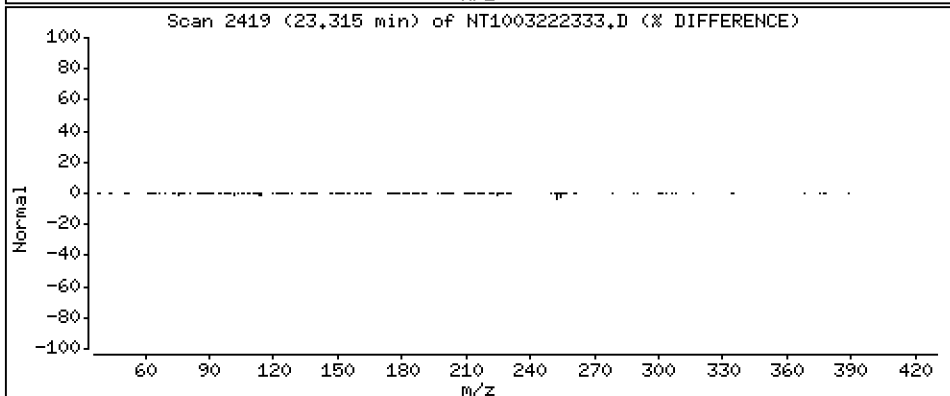
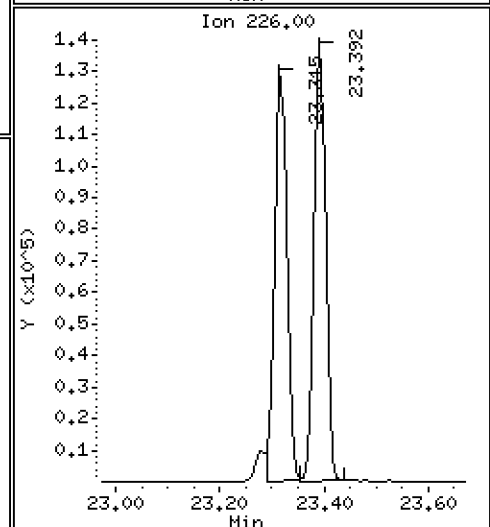
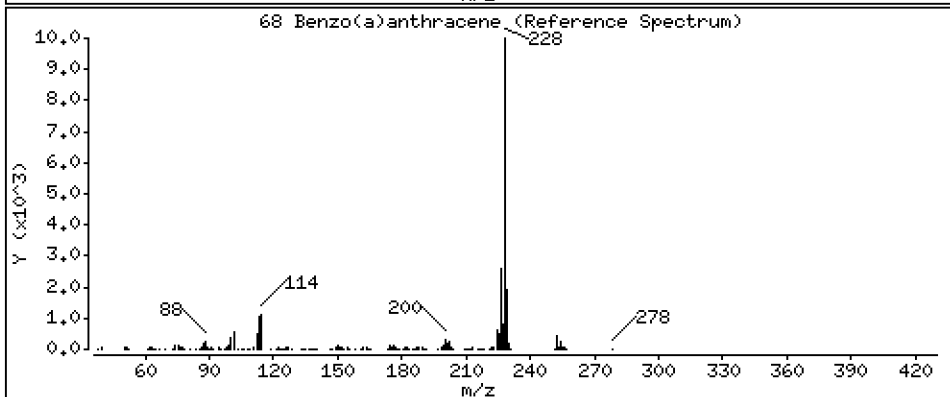
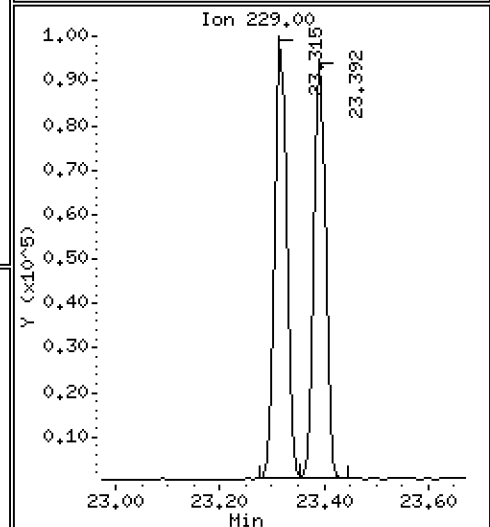
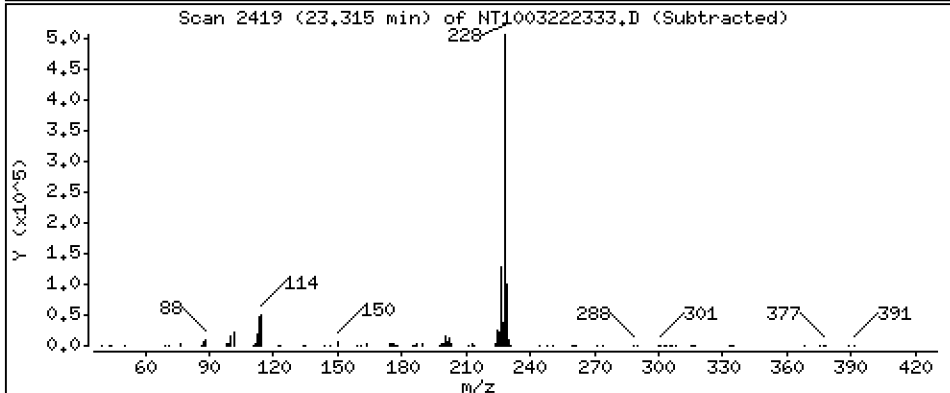
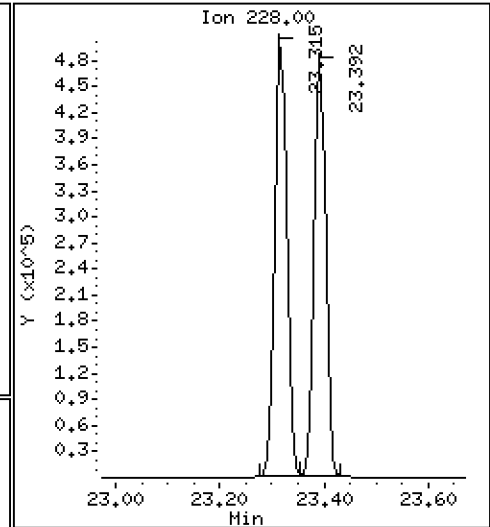
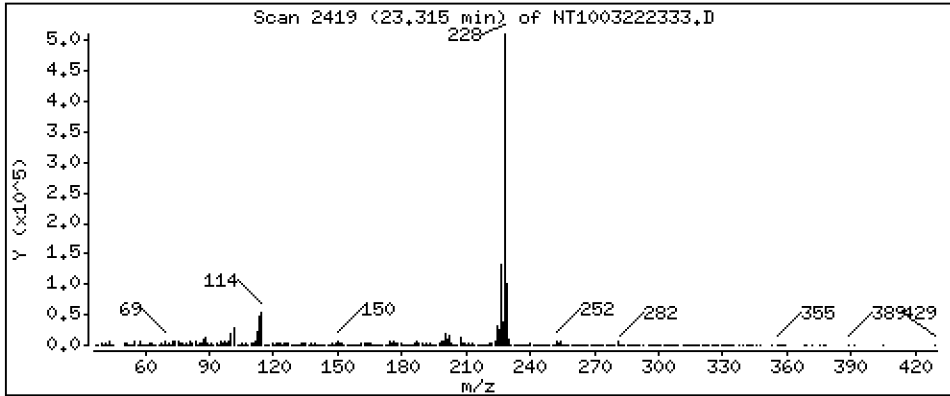
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 4,820 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

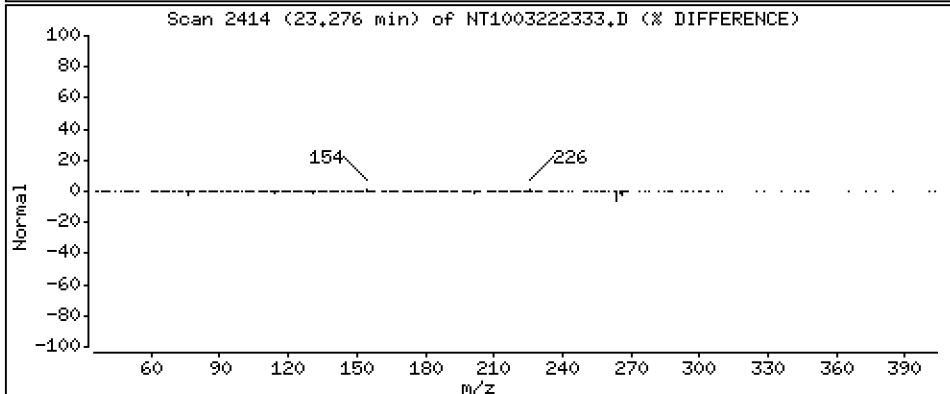
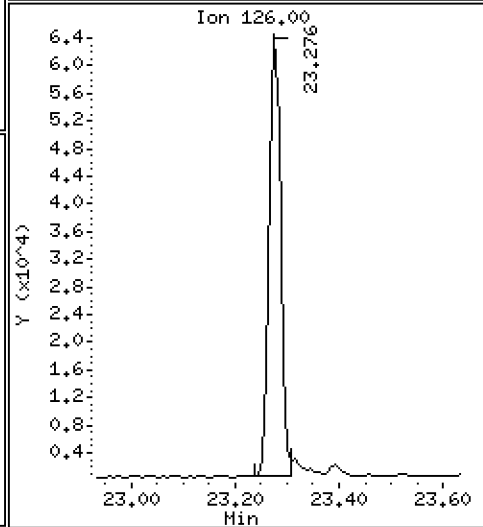
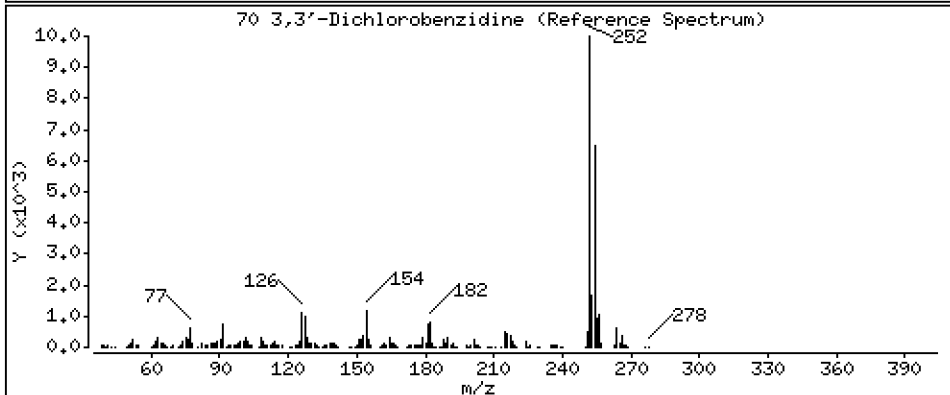
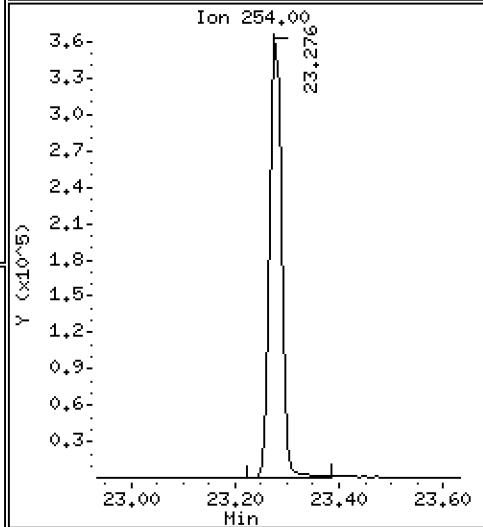
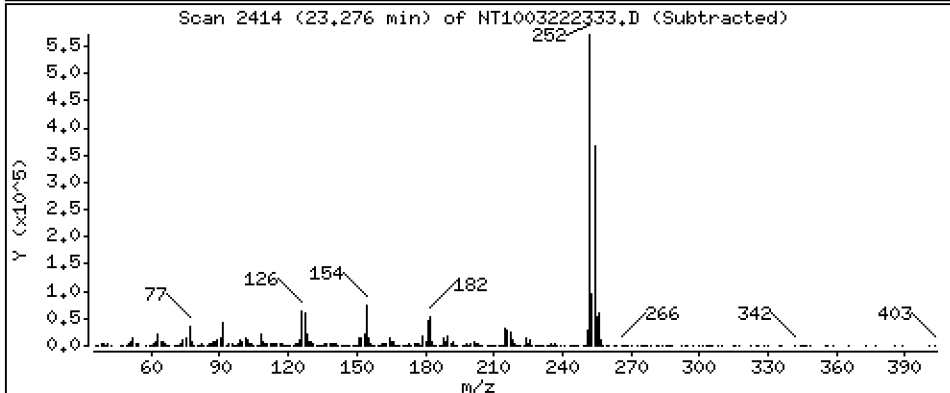
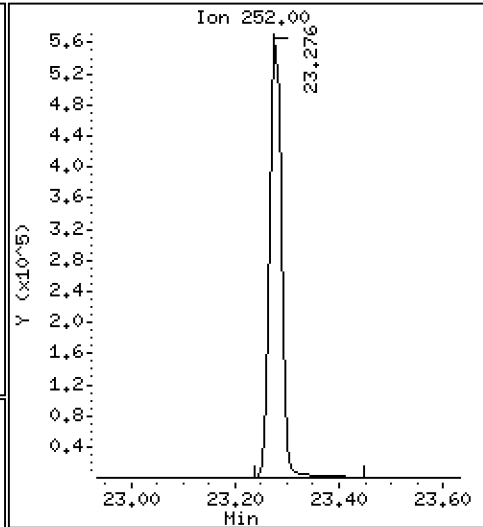
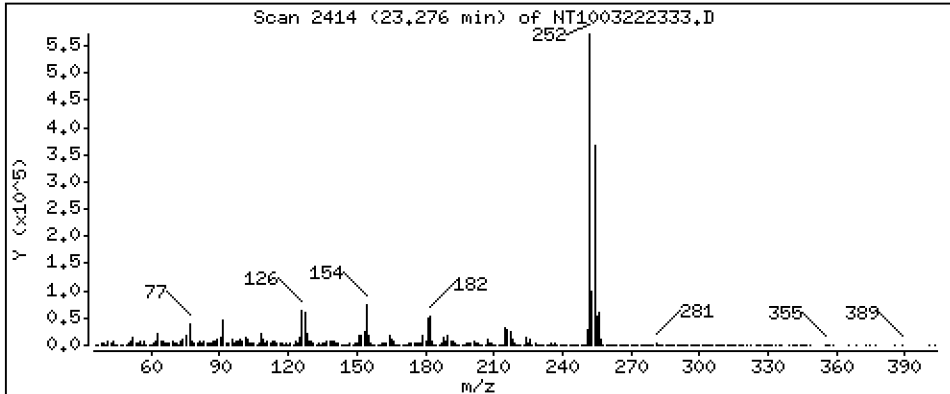
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

70 3,3'-Dichlorobenzidine

Concentration: 16,59 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

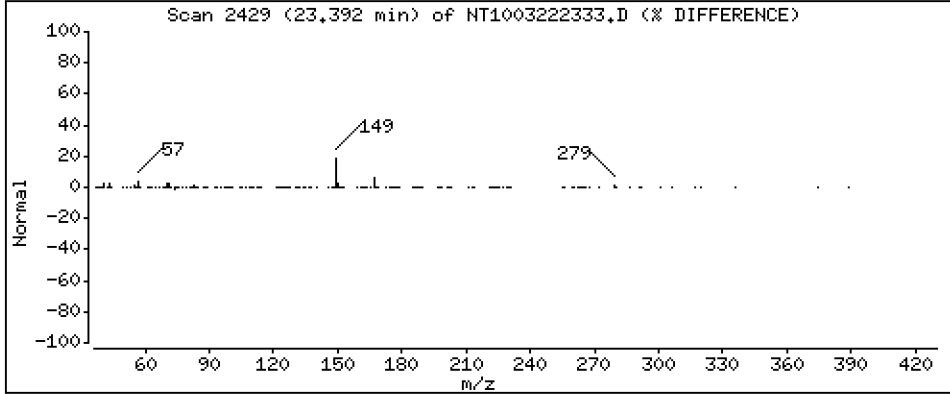
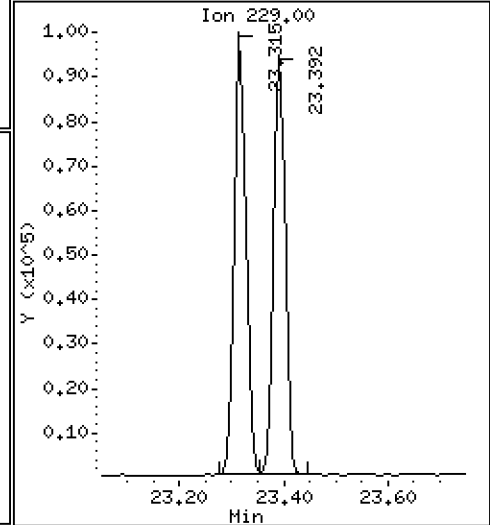
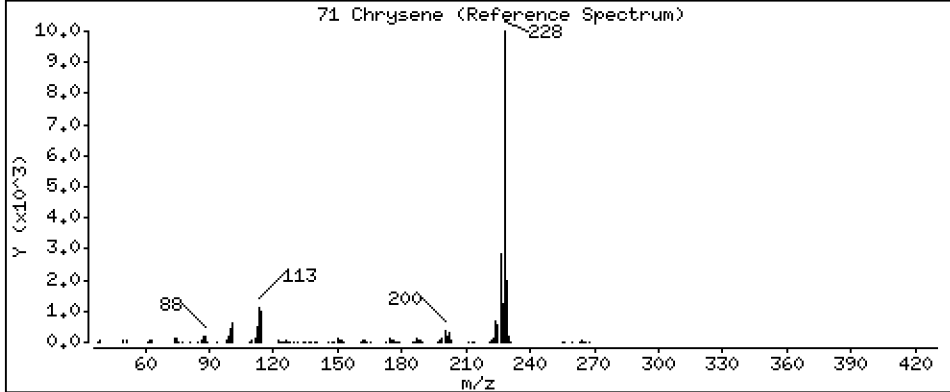
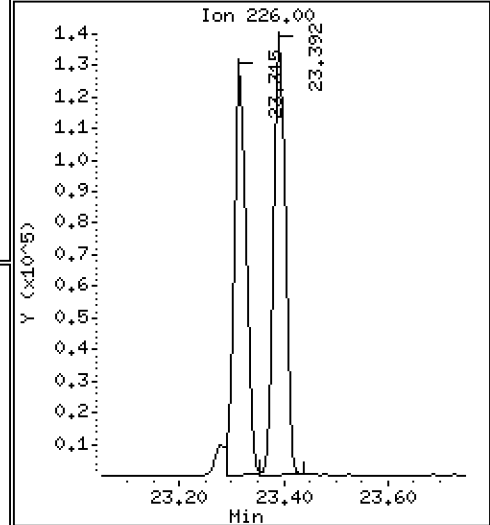
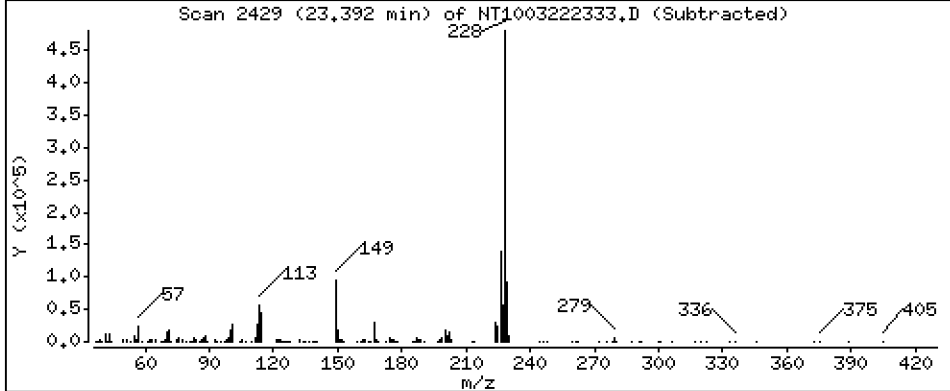
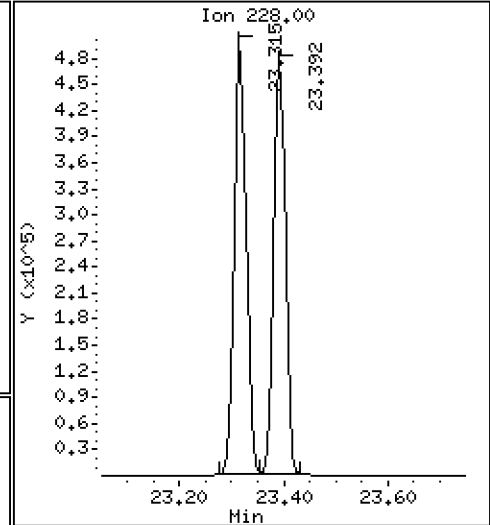
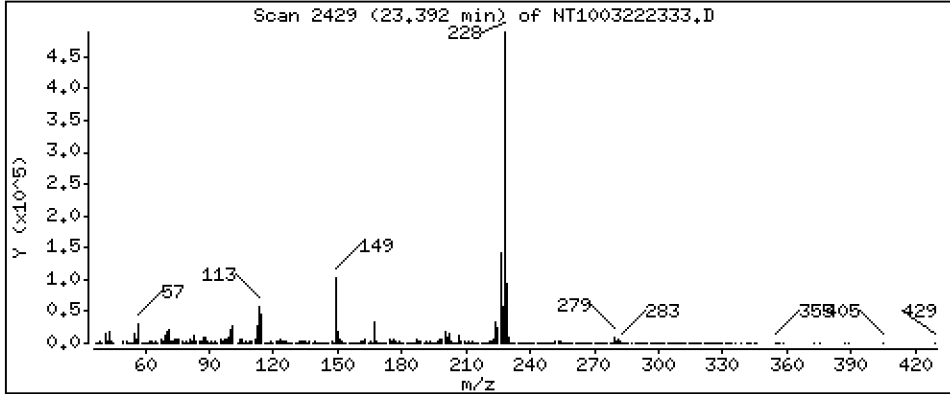
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 4,583 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

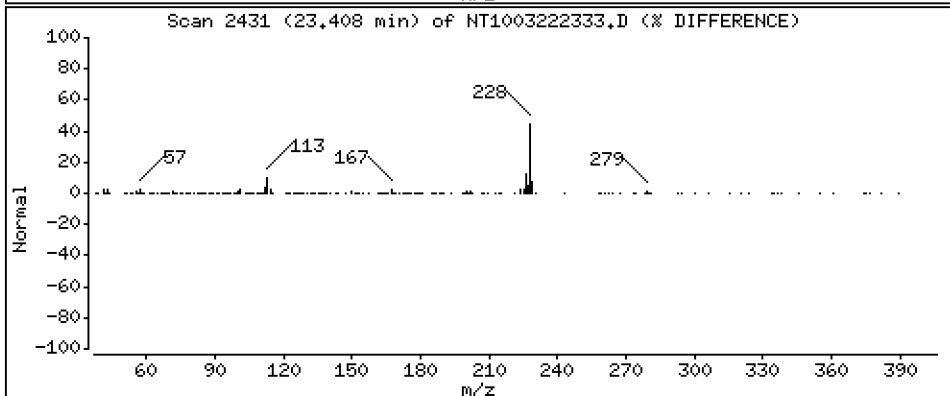
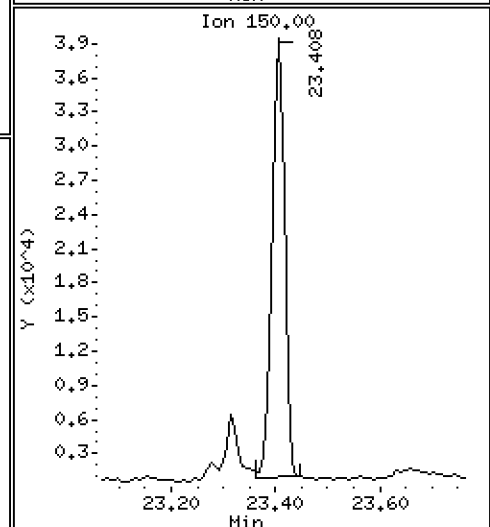
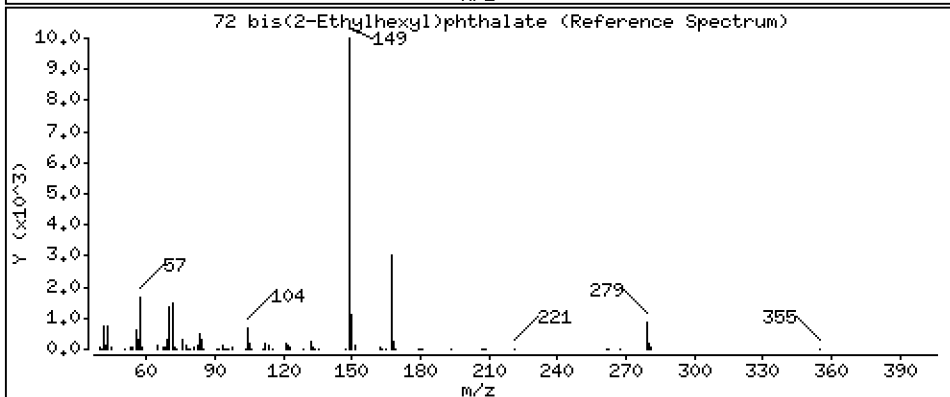
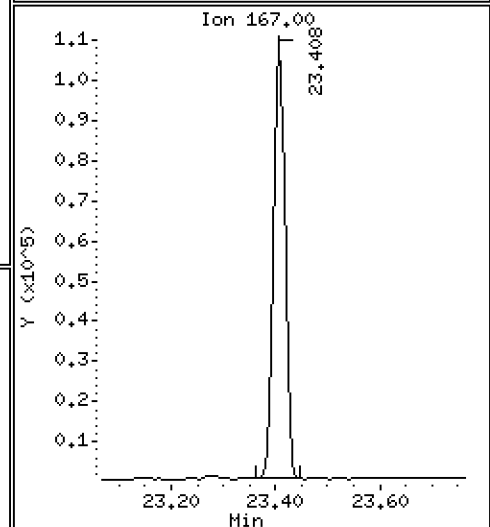
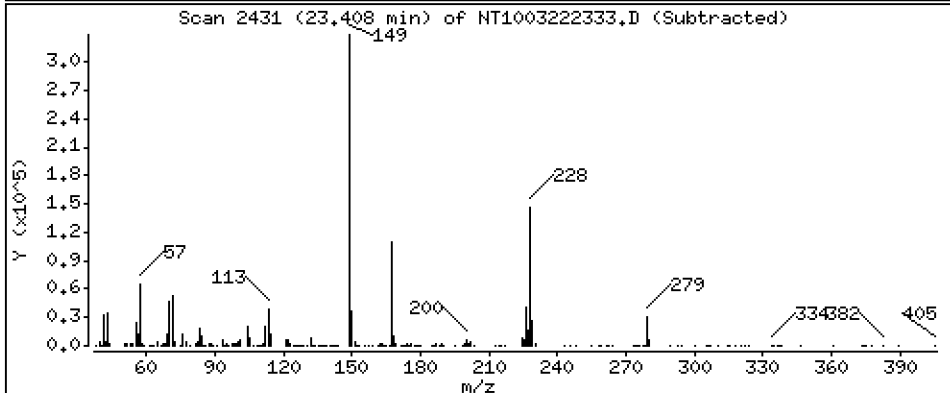
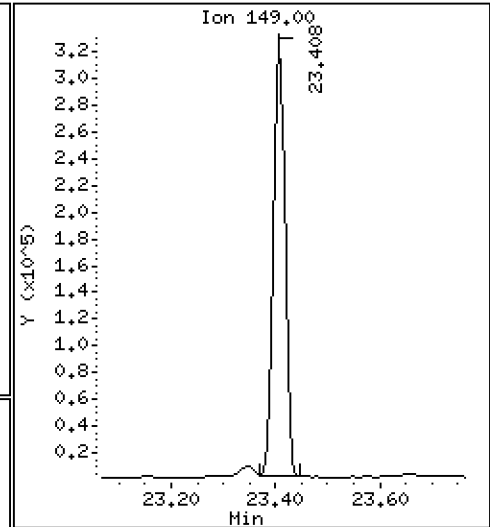
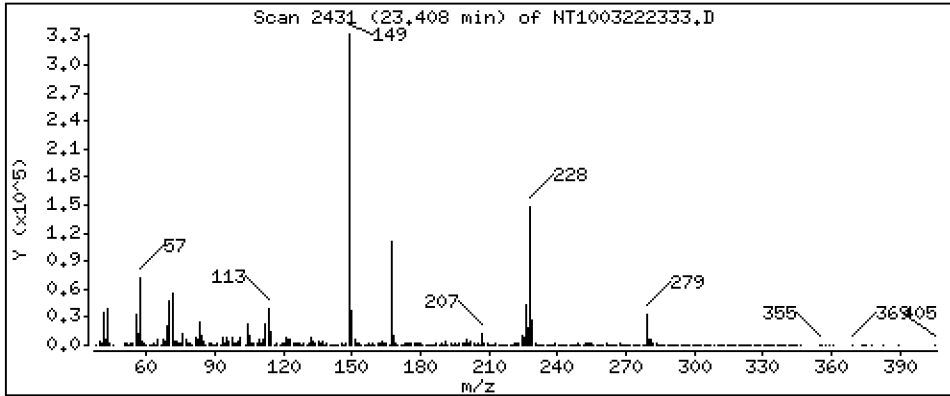
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 4,510 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

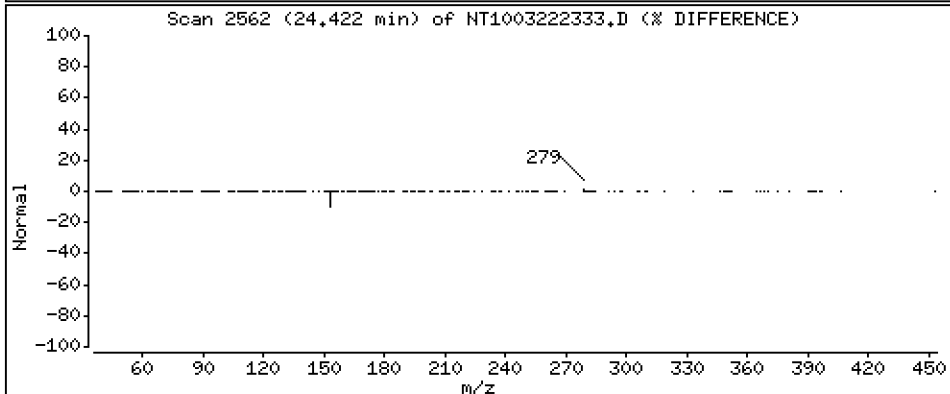
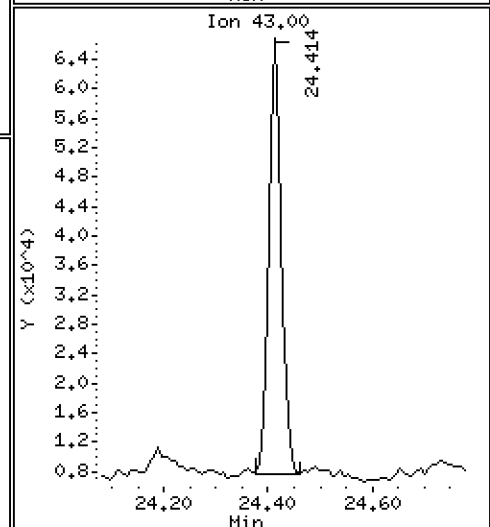
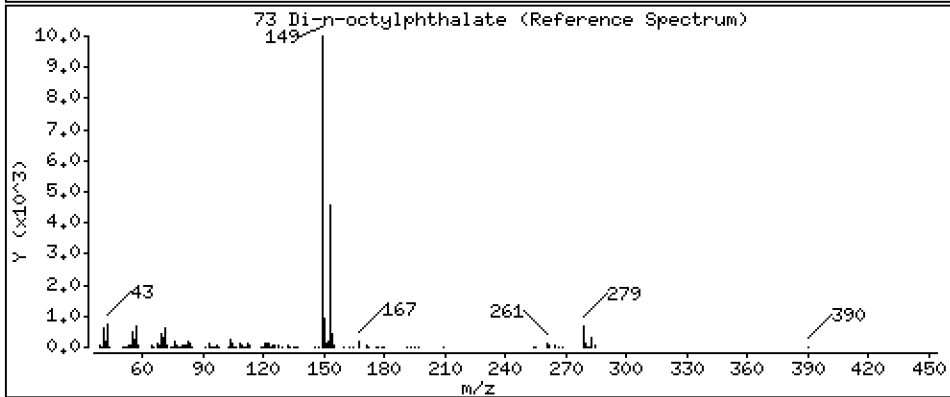
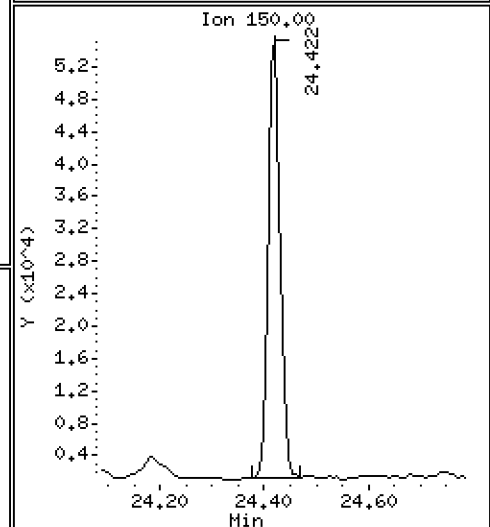
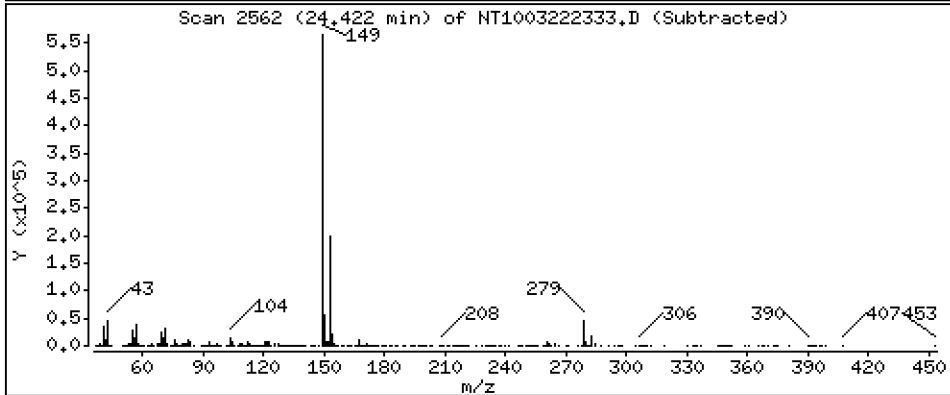
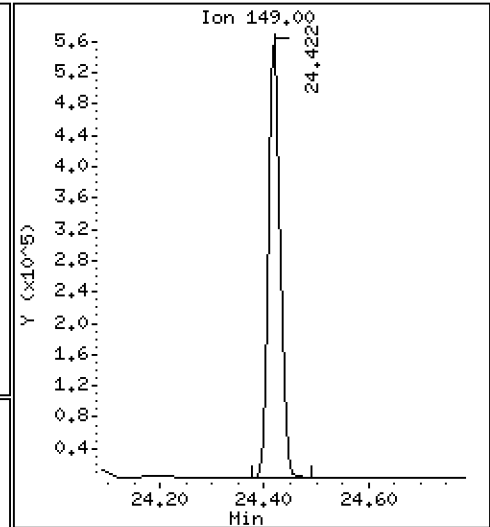
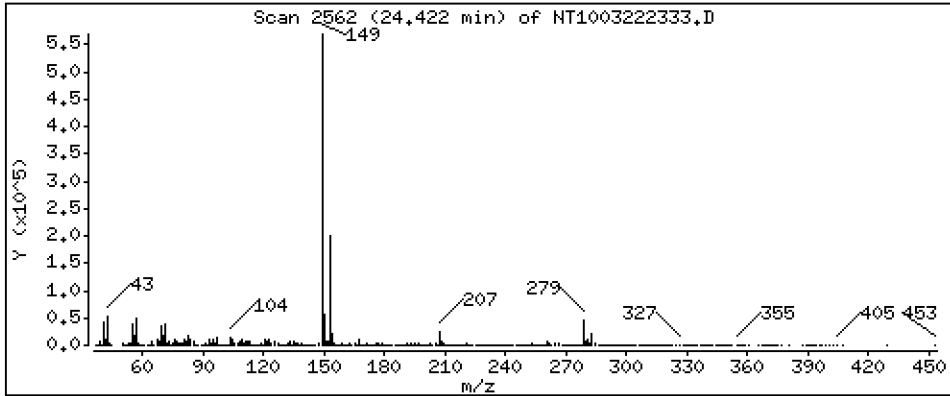
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 4,602 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

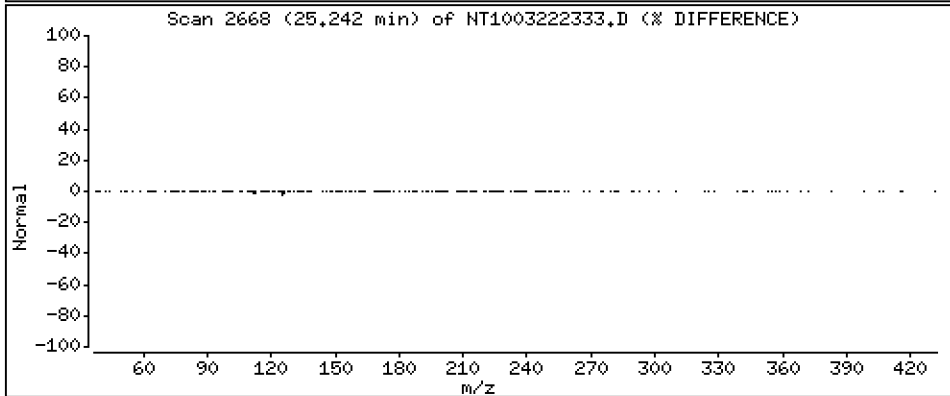
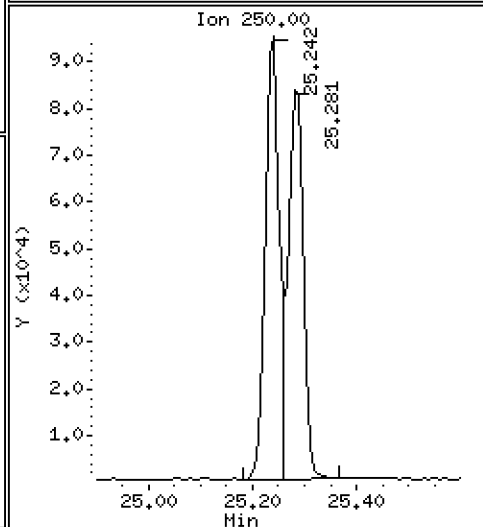
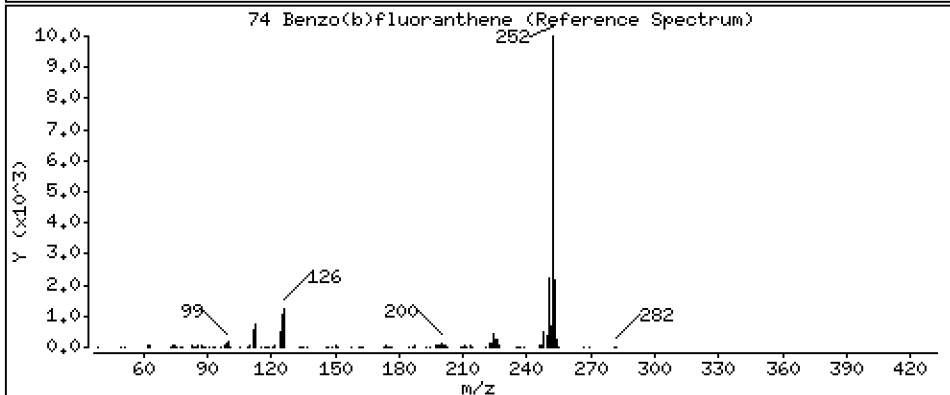
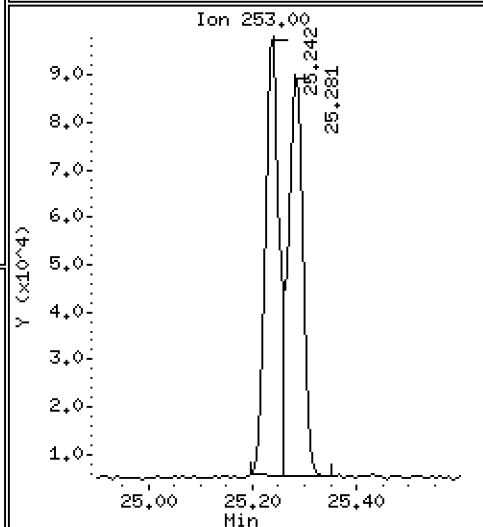
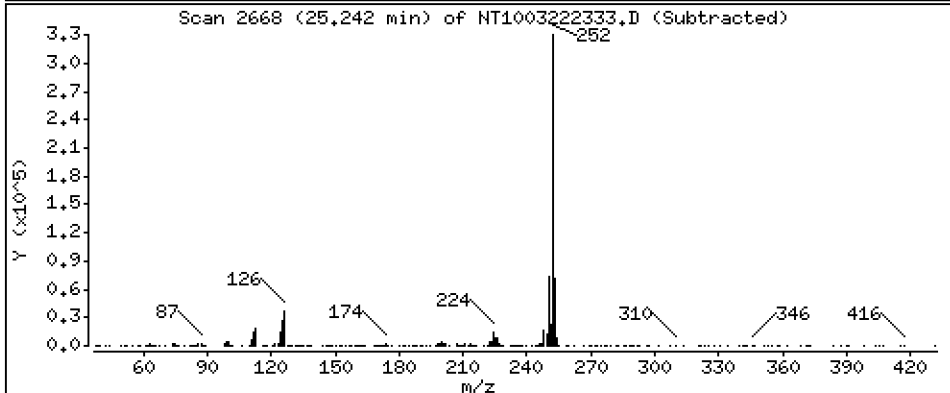
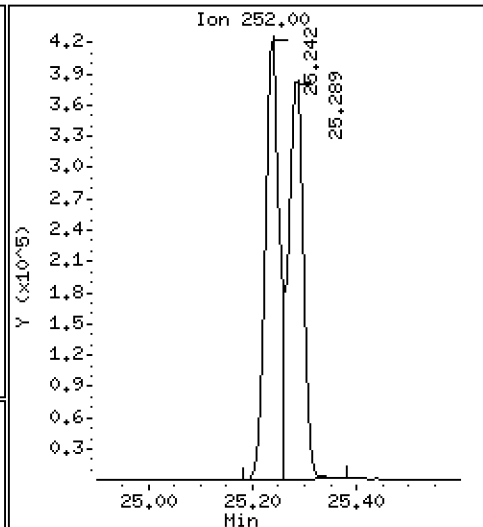
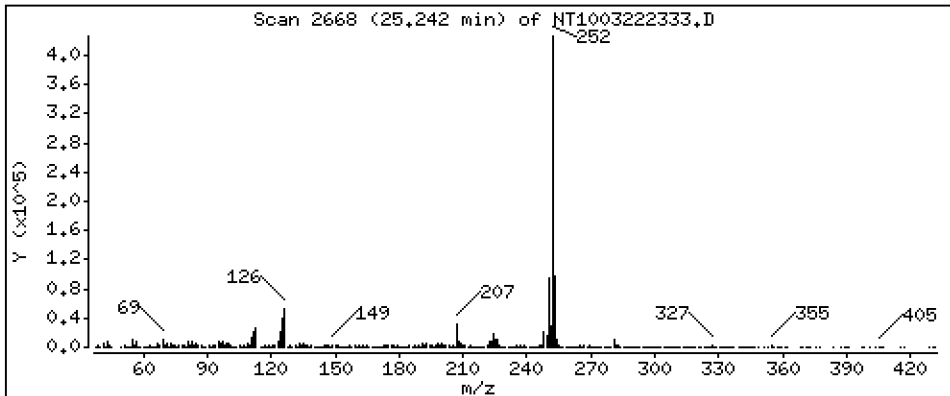
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 5,064 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

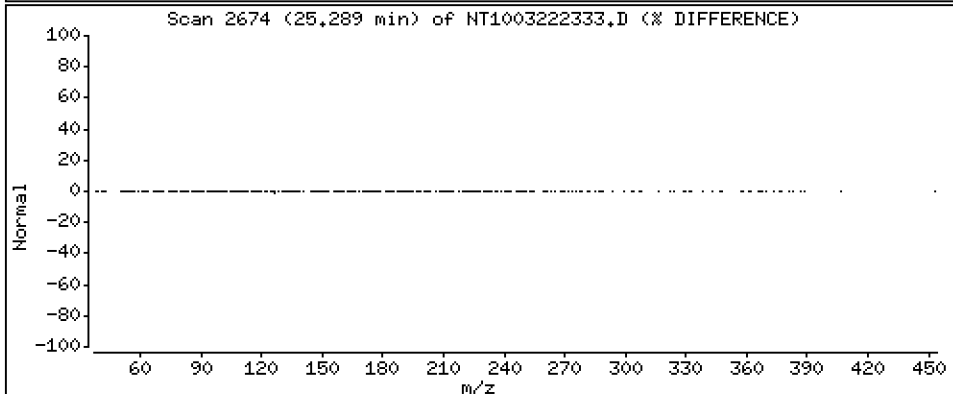
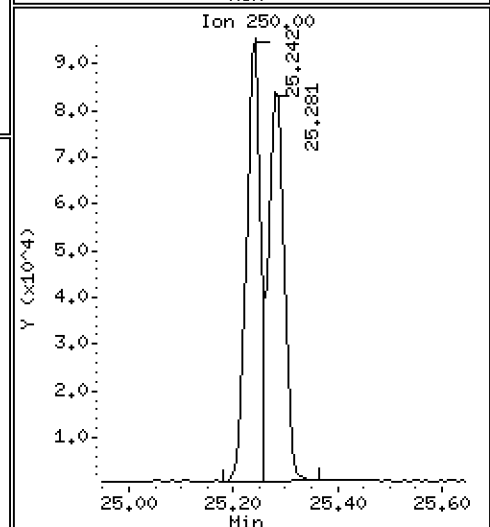
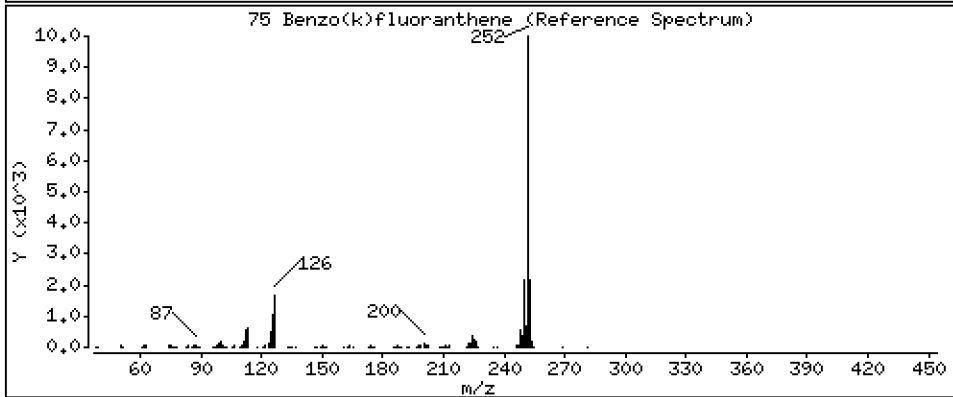
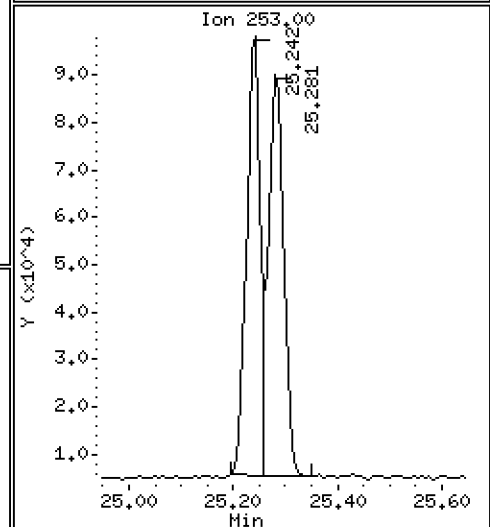
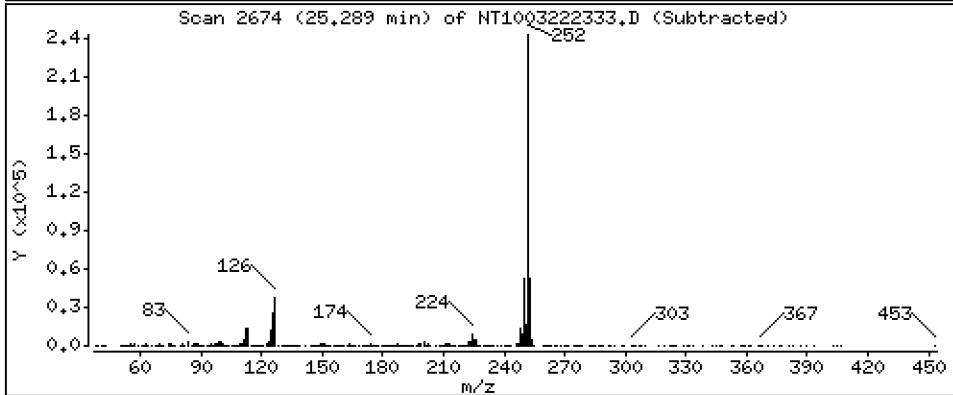
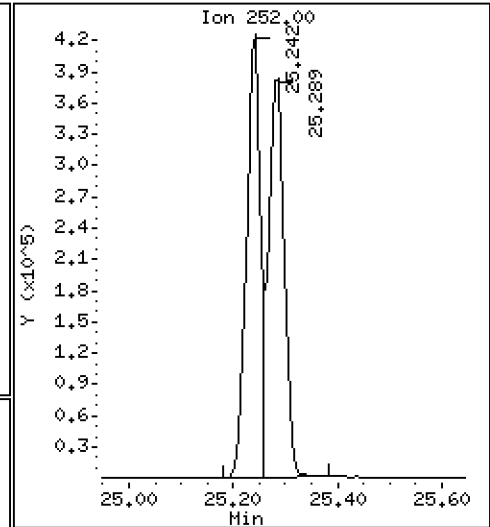
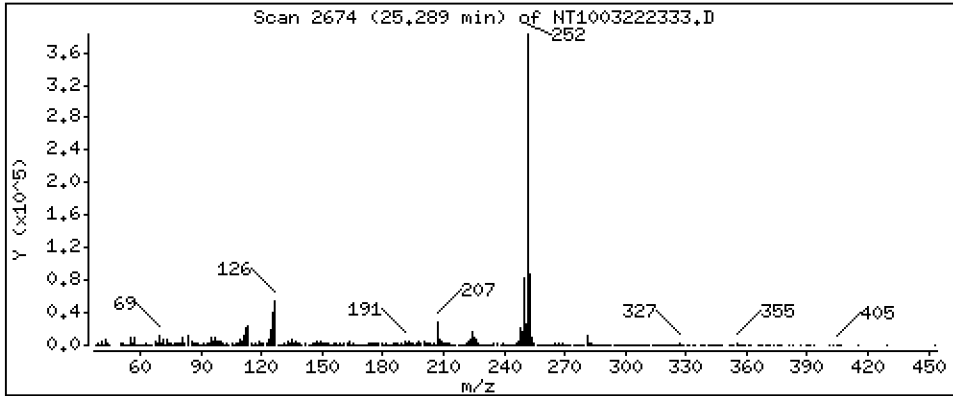
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 5,354 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

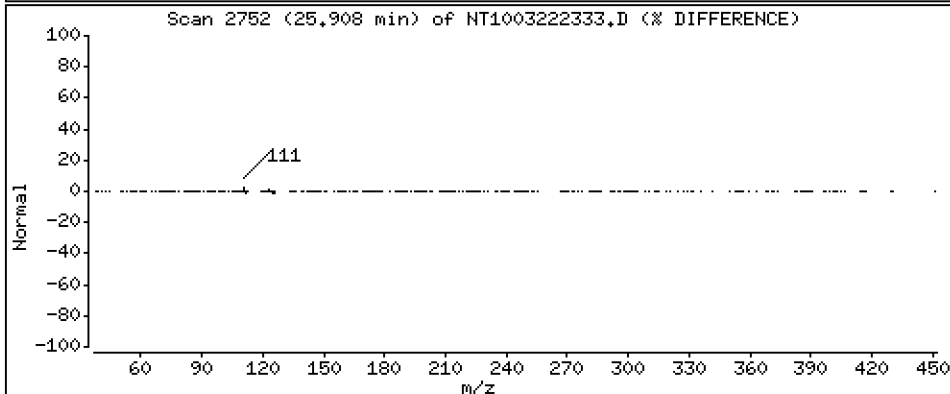
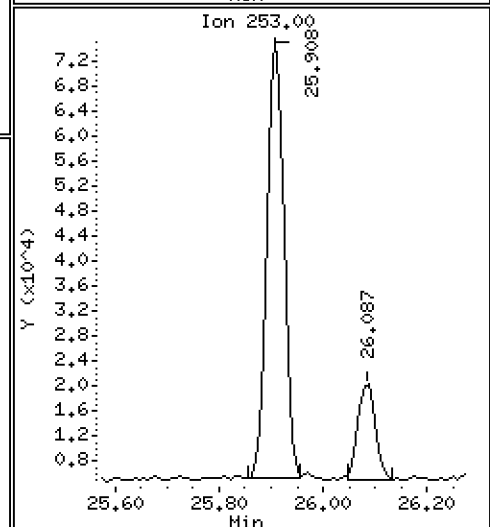
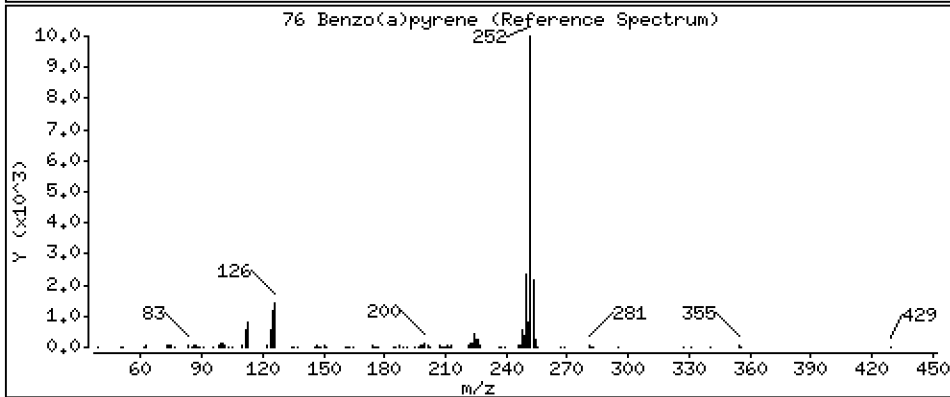
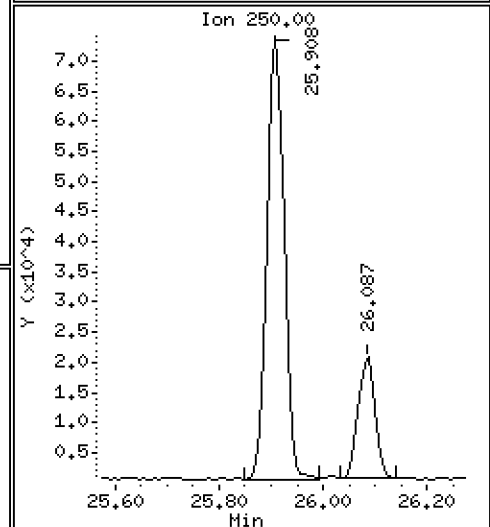
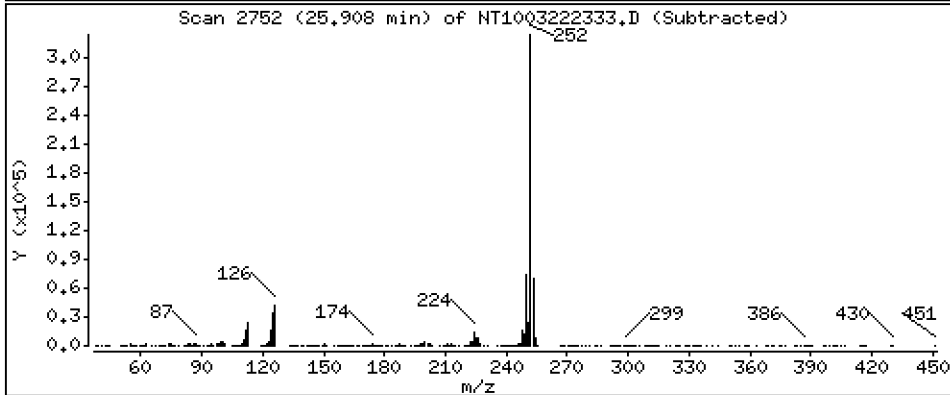
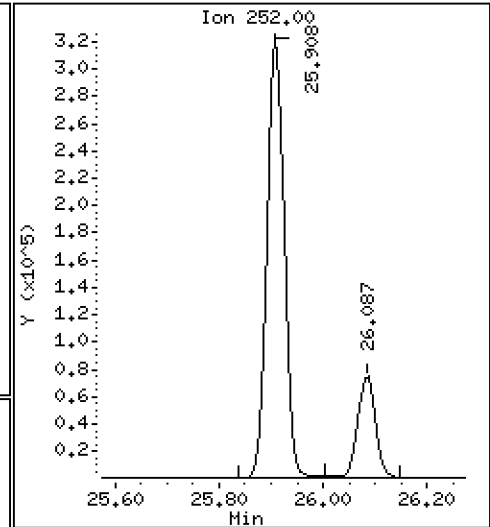
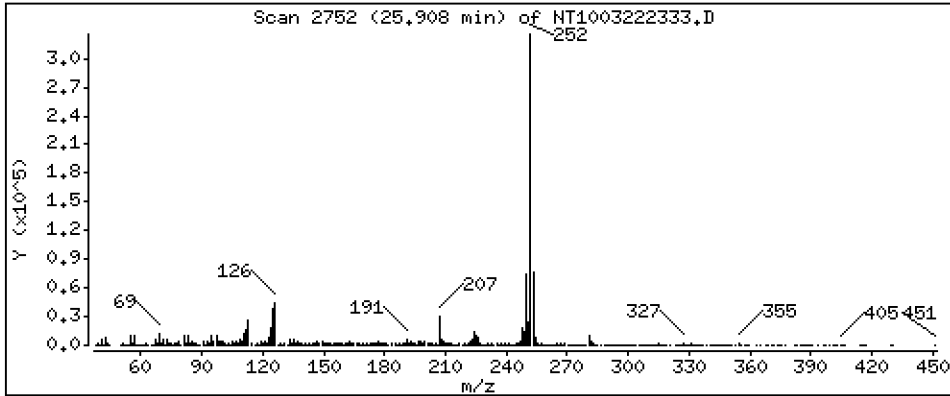
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 5,149 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

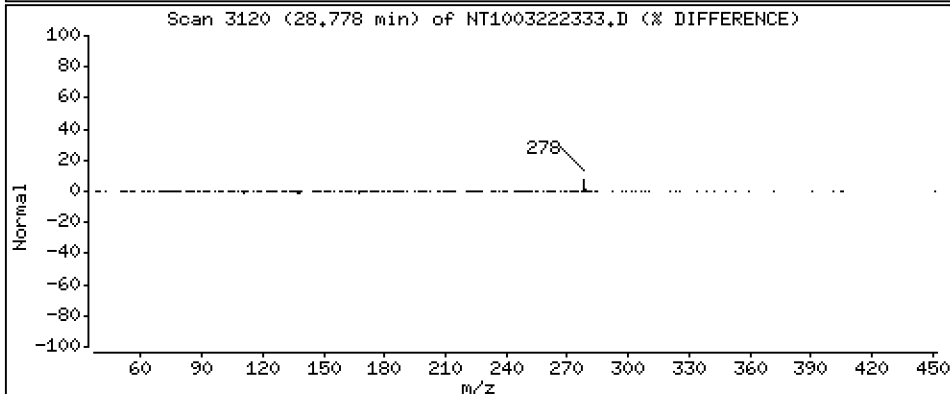
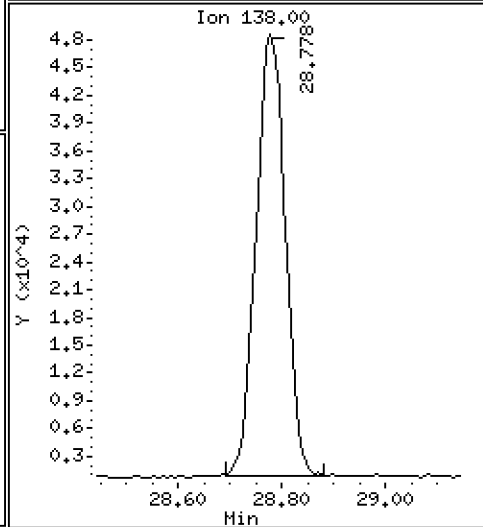
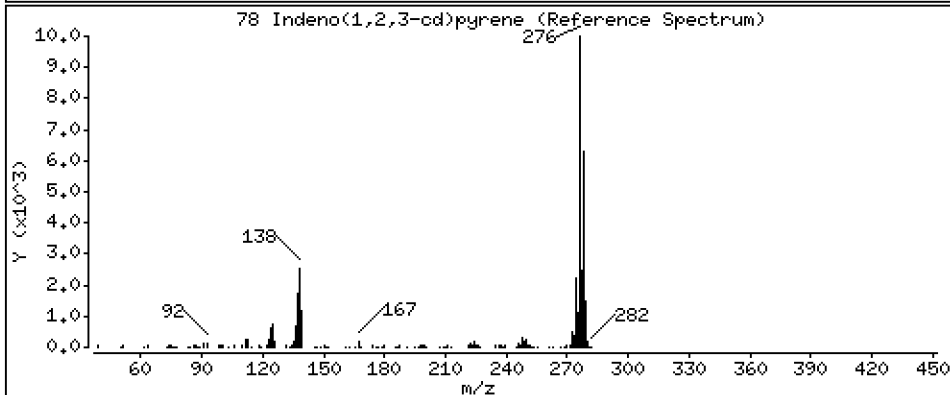
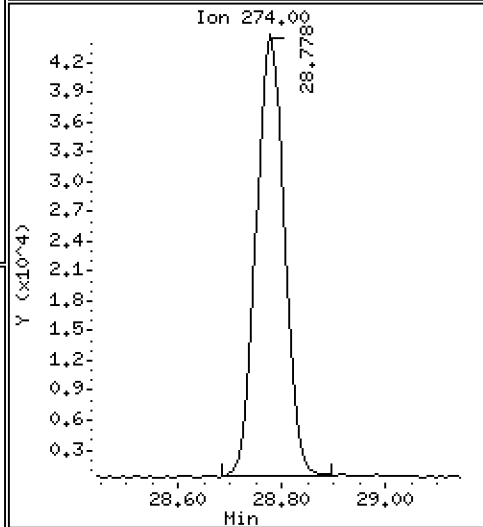
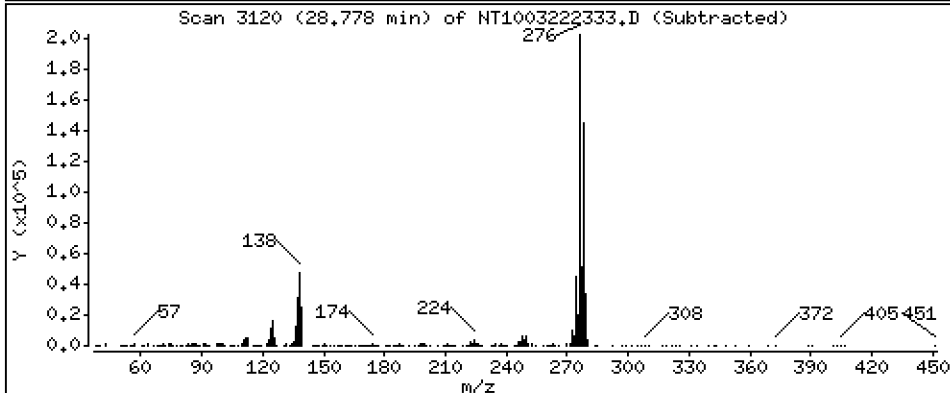
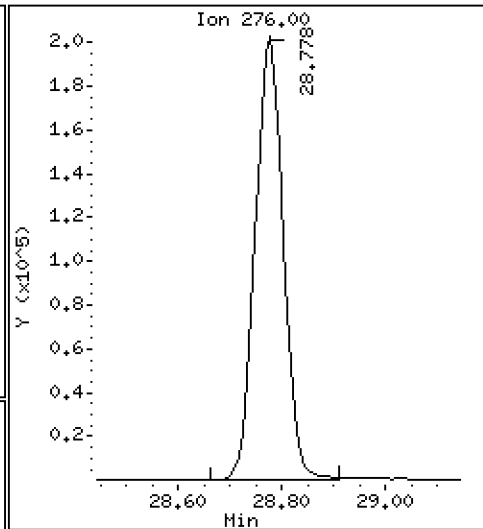
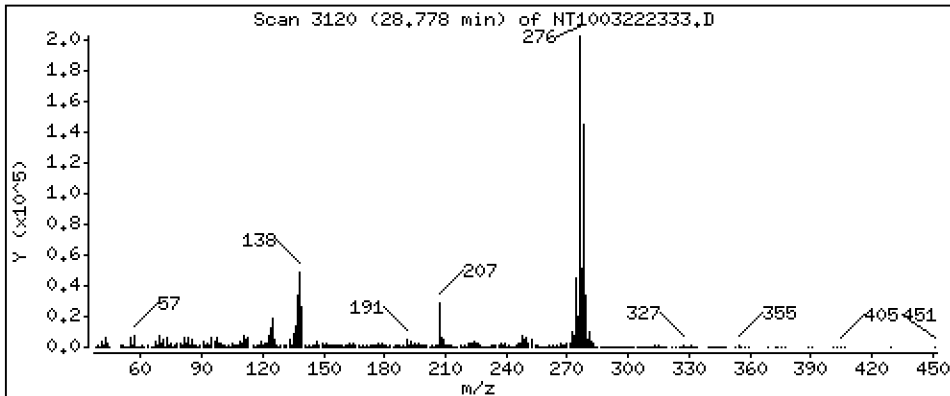
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 4,236 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

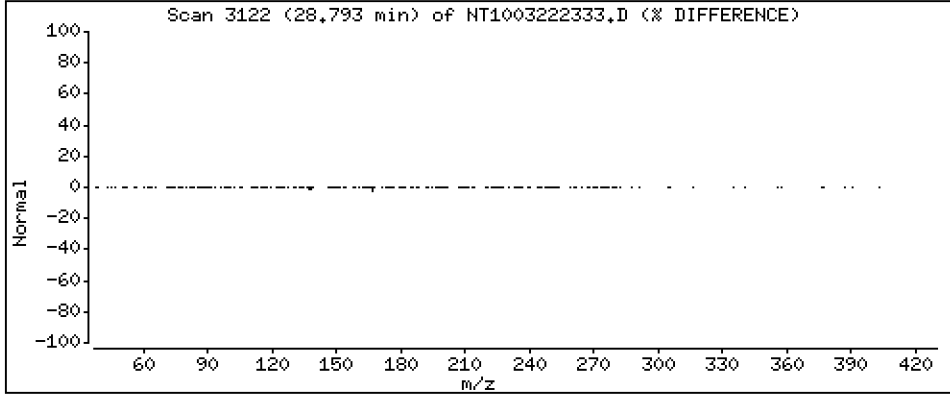
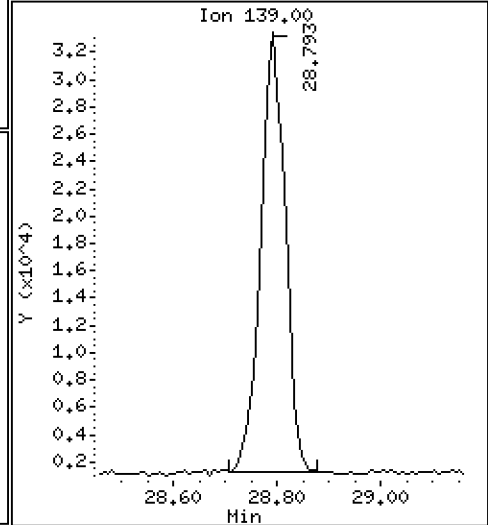
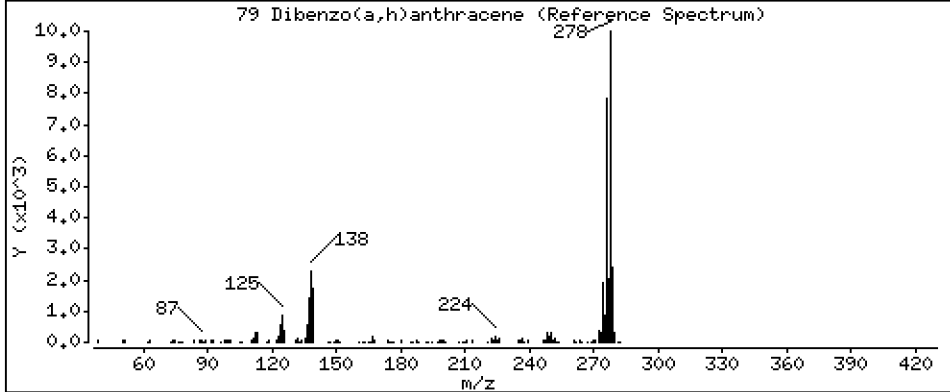
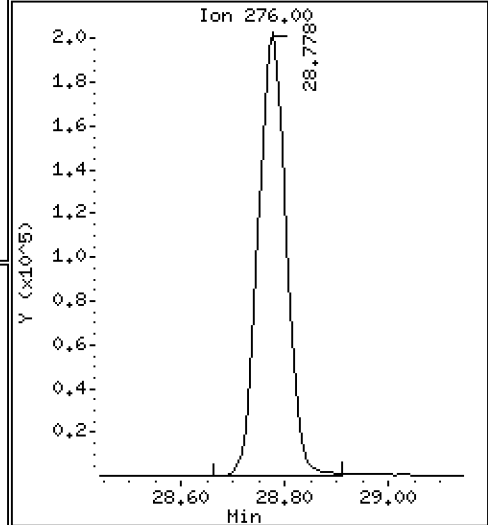
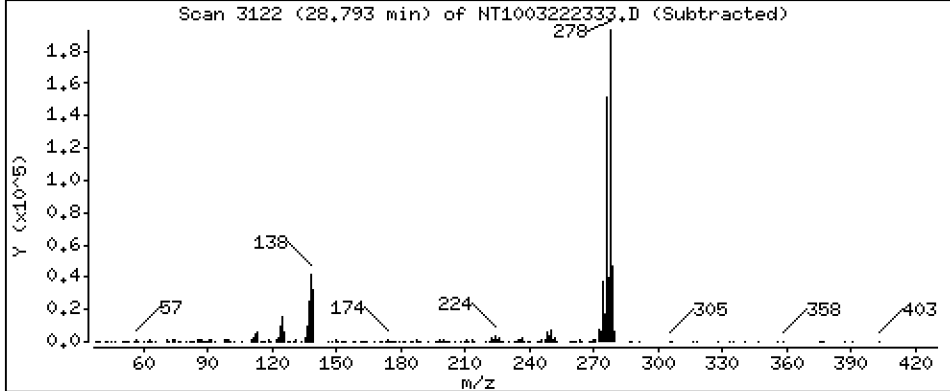
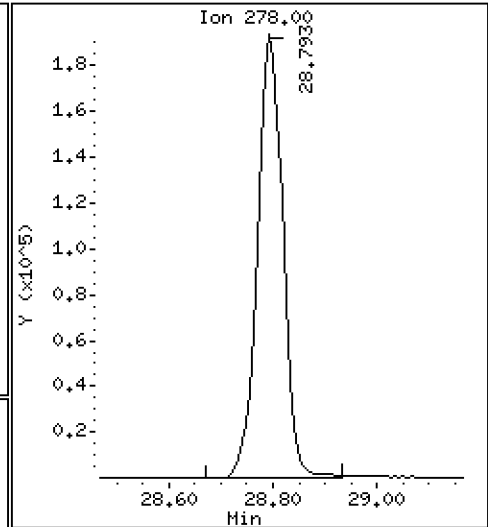
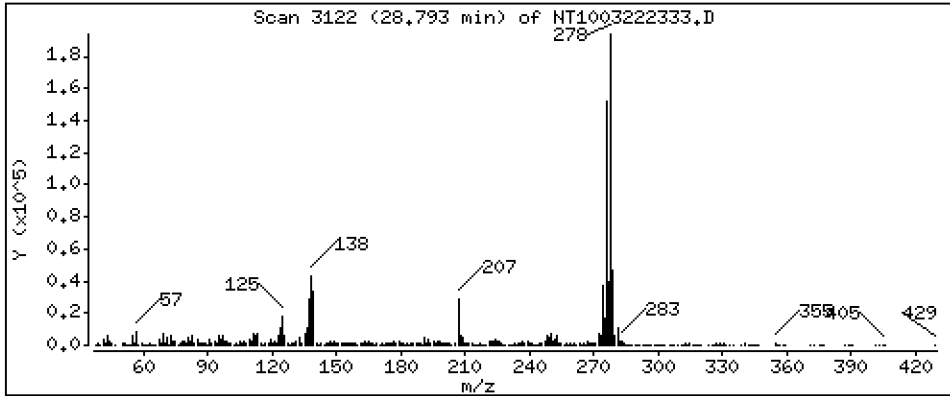
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 4,424 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

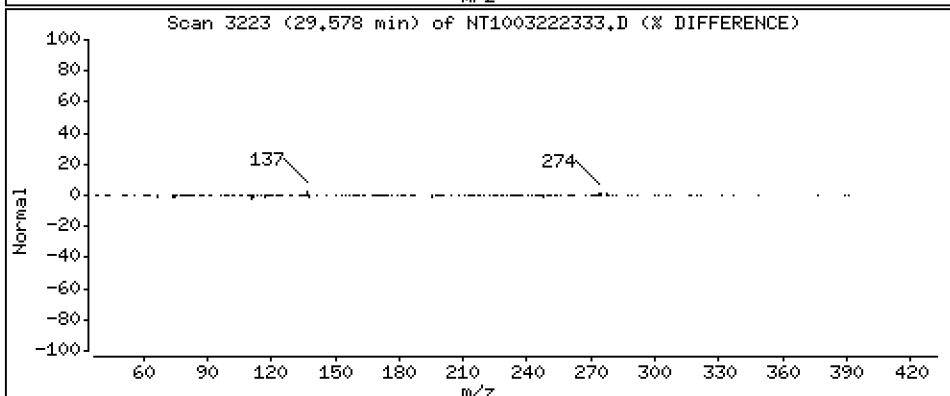
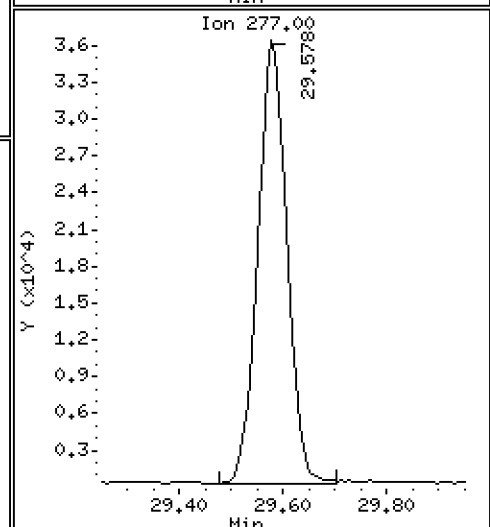
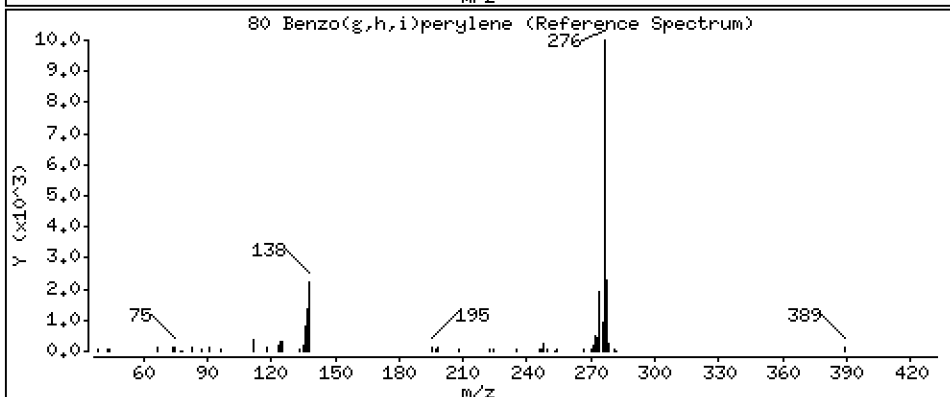
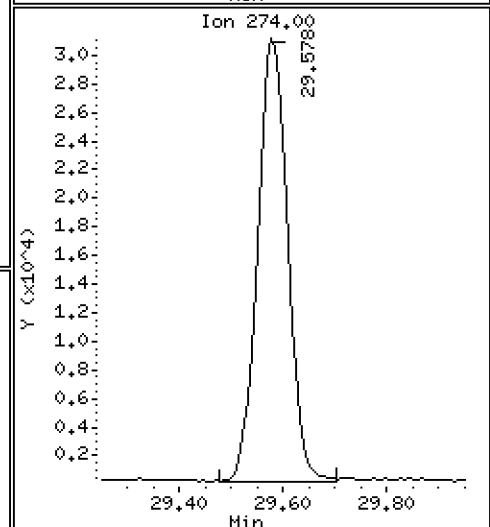
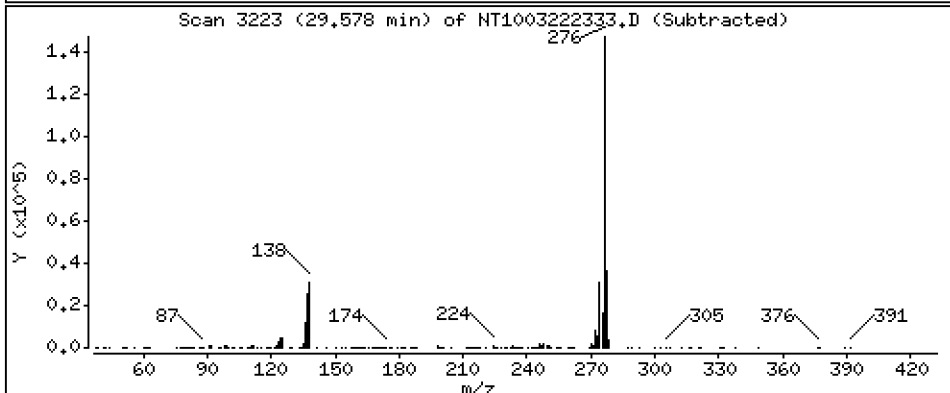
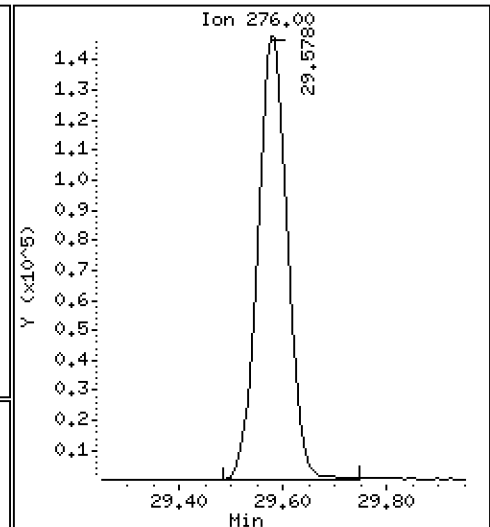
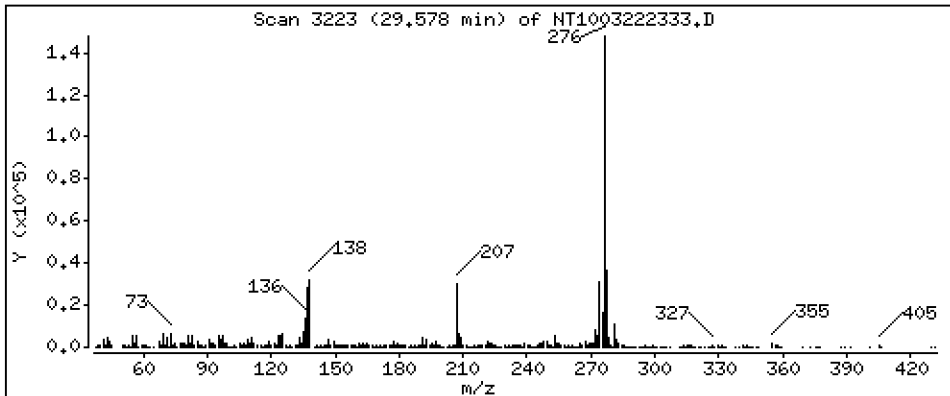
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 3,775 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

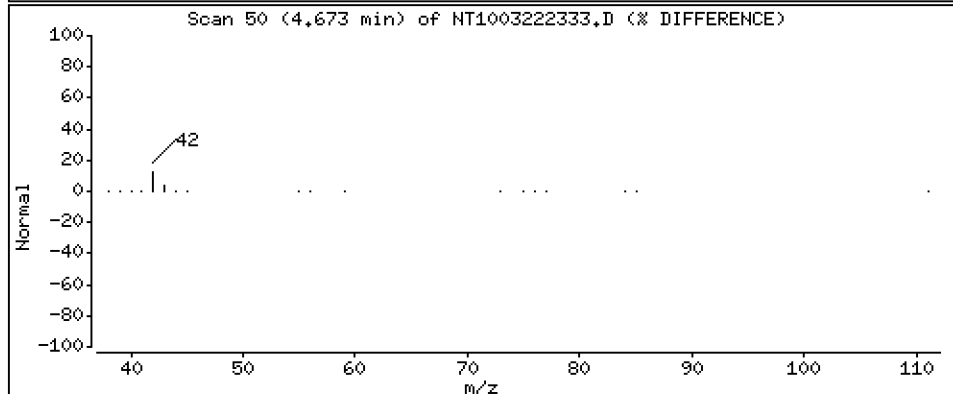
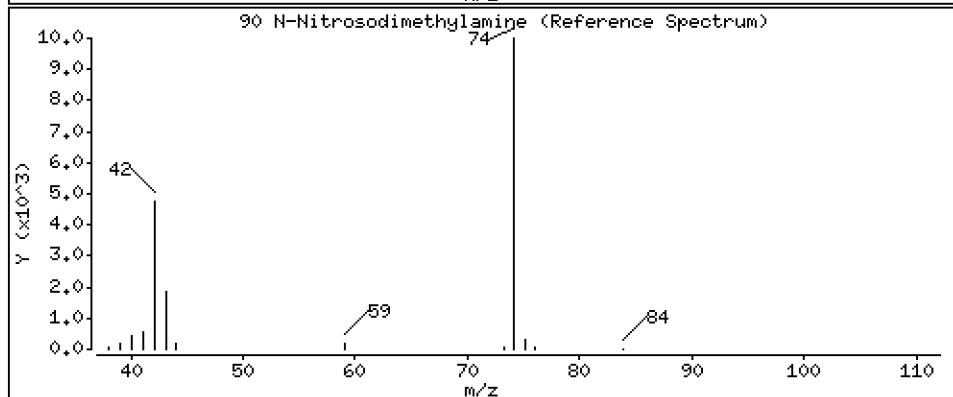
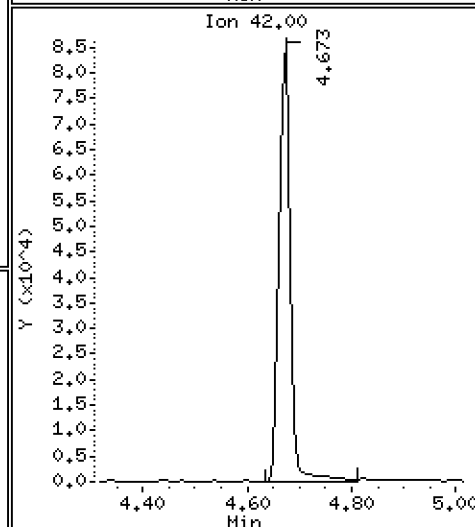
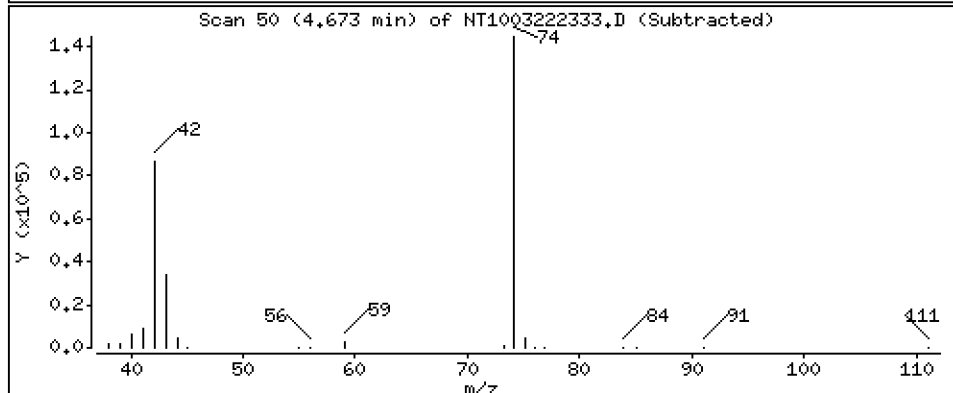
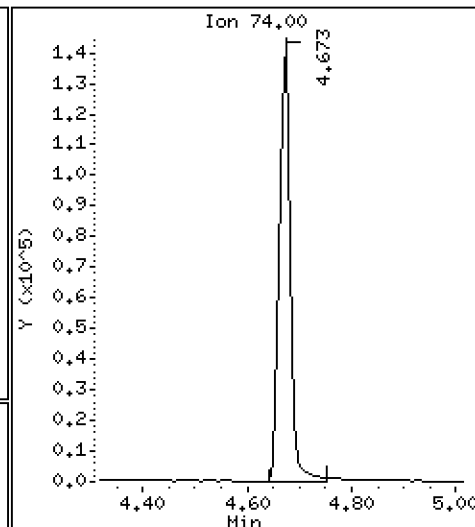
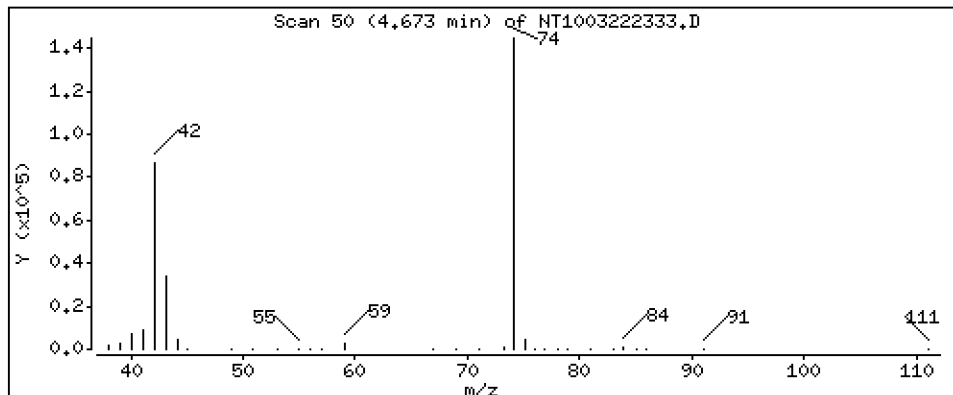
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

90 N-Nitrosodimethylamine

Concentration: 9,020 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

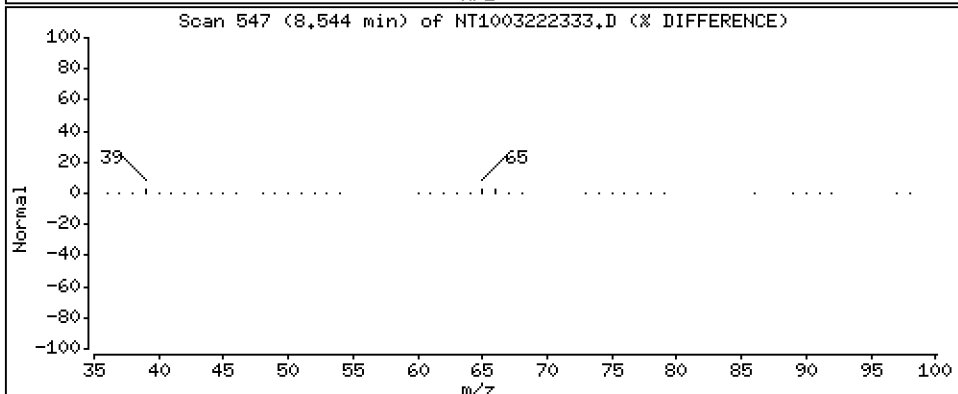
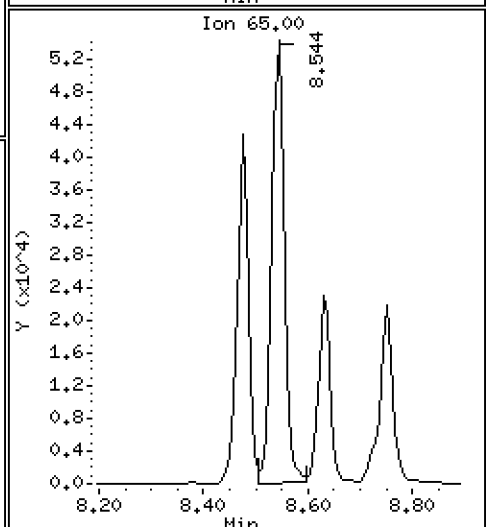
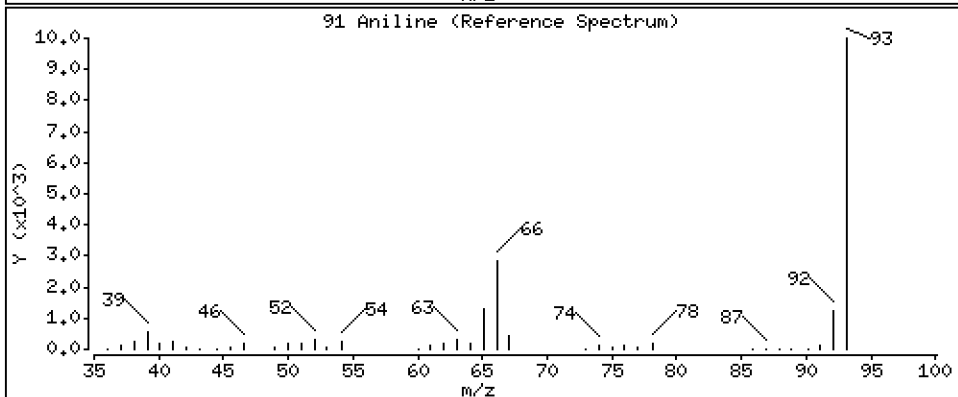
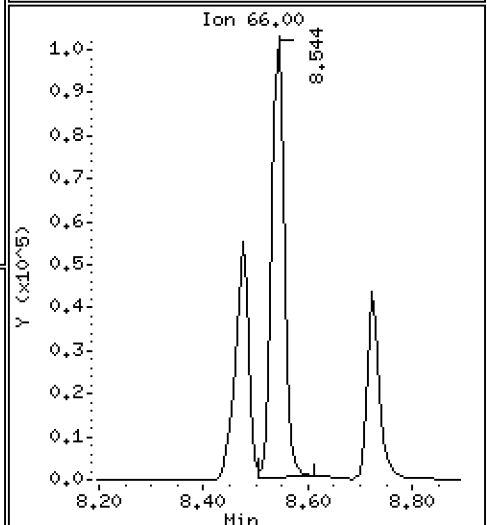
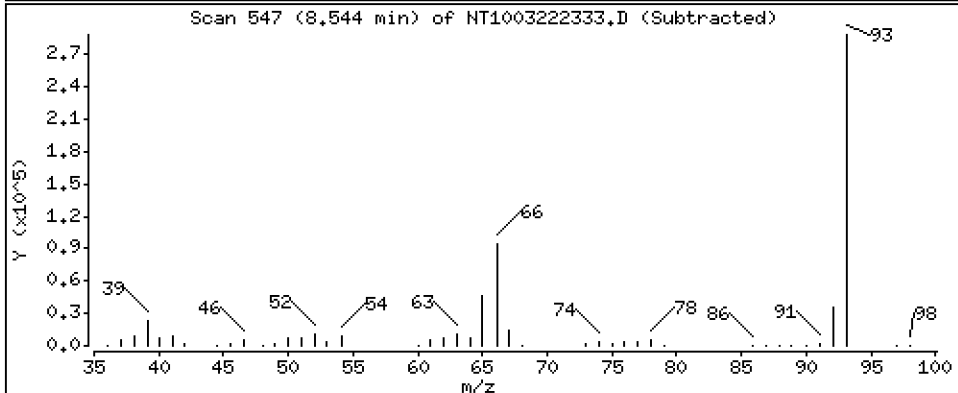
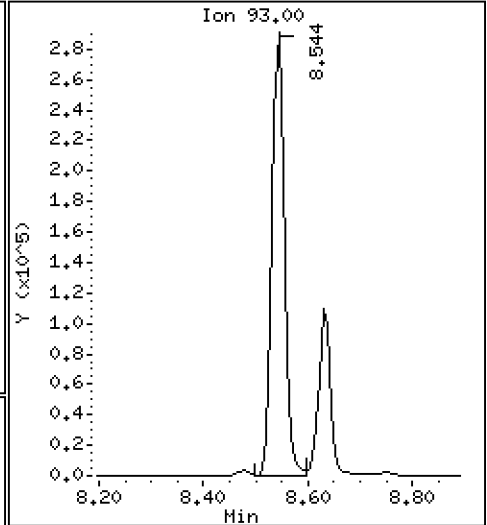
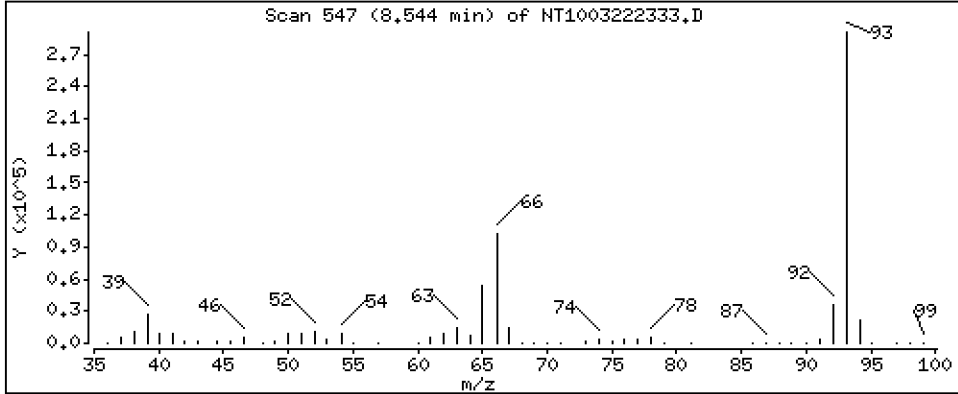
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

91 Aniline

Concentration: 9,333 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

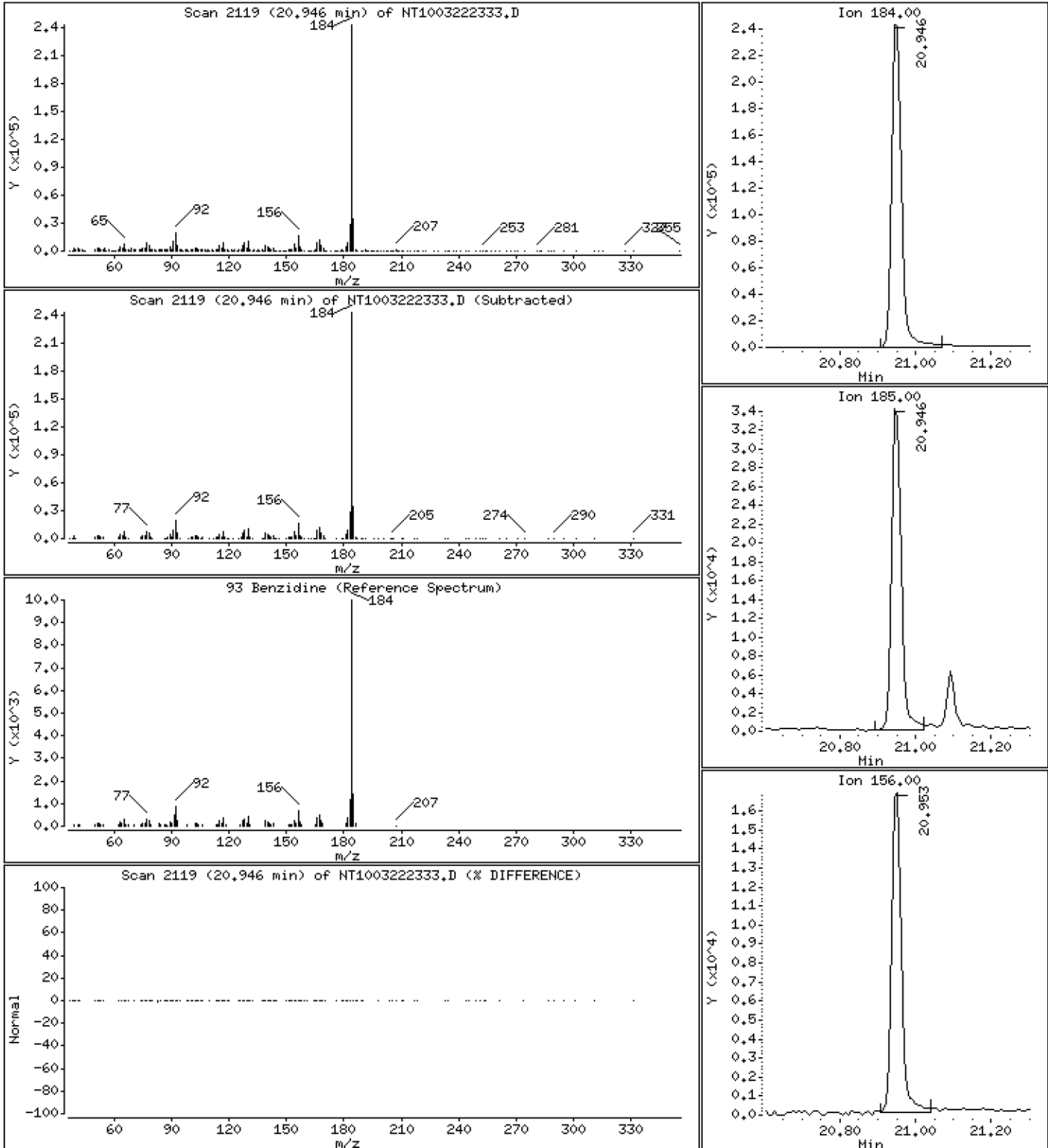
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

93 Benzidine

Concentration: 5,667 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

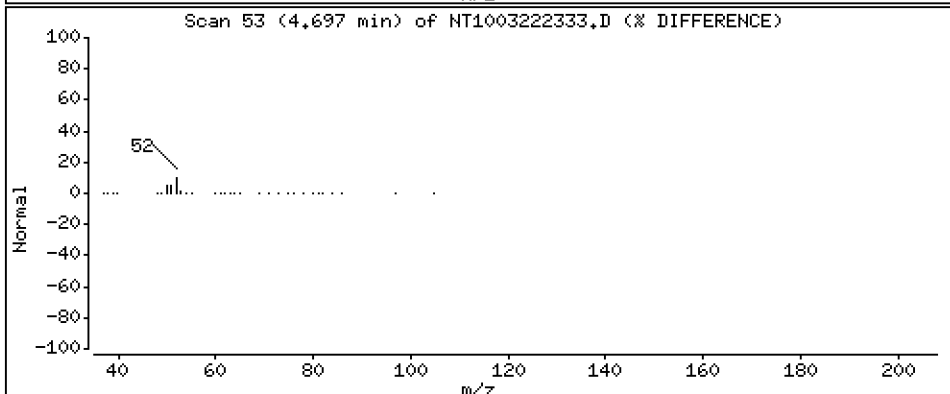
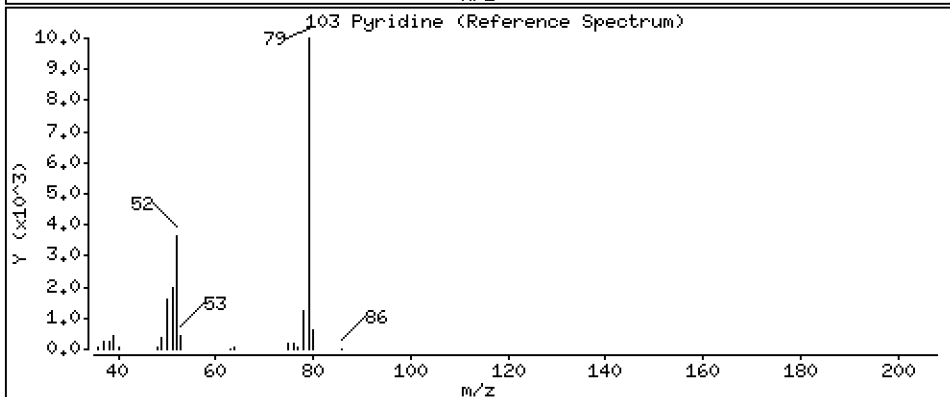
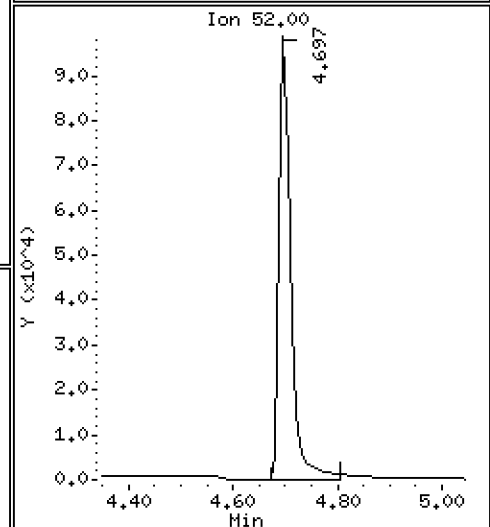
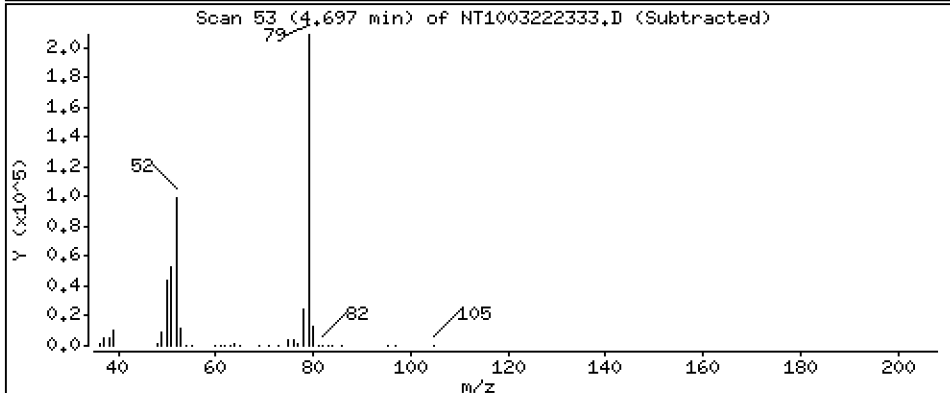
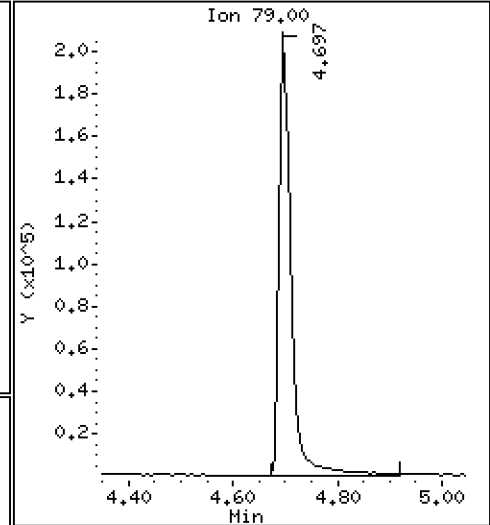
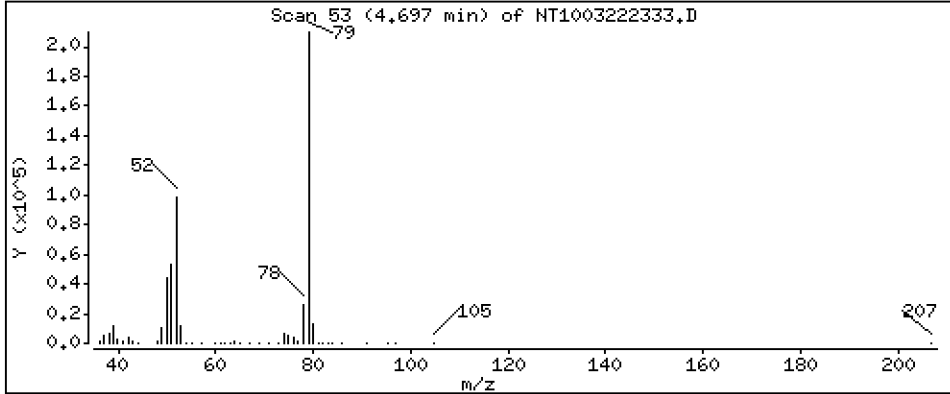
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

103 Pyridine

Concentration: 9,123 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

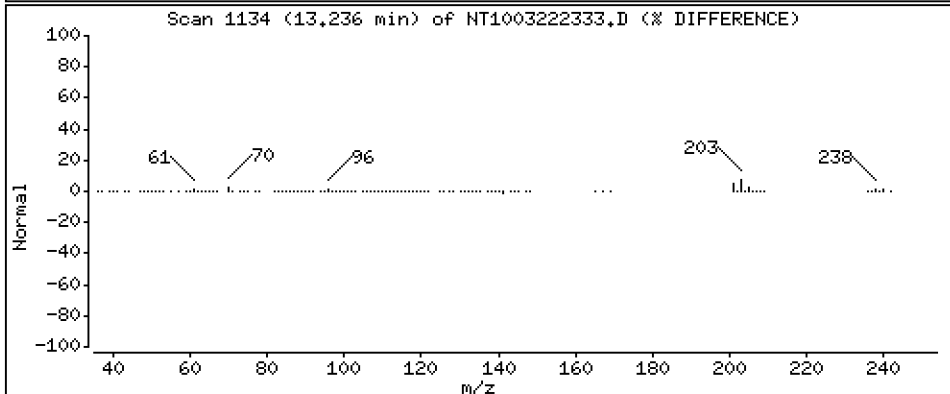
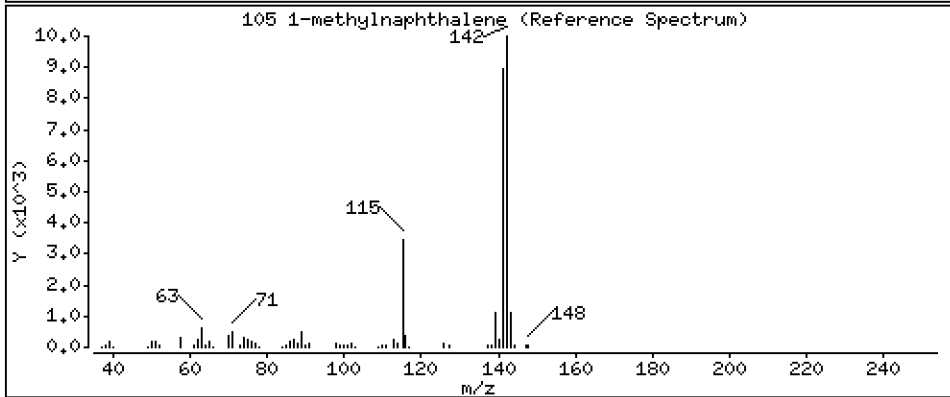
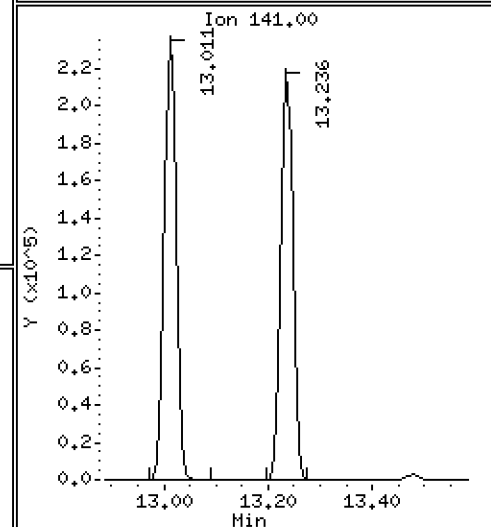
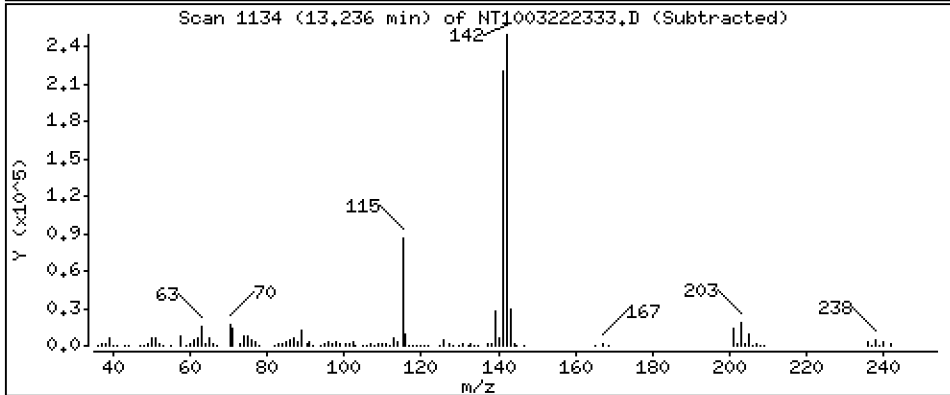
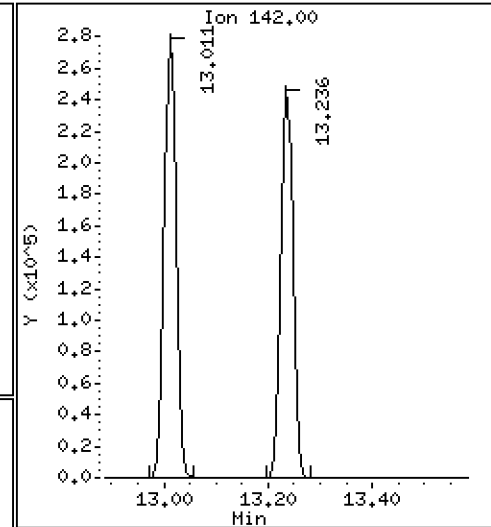
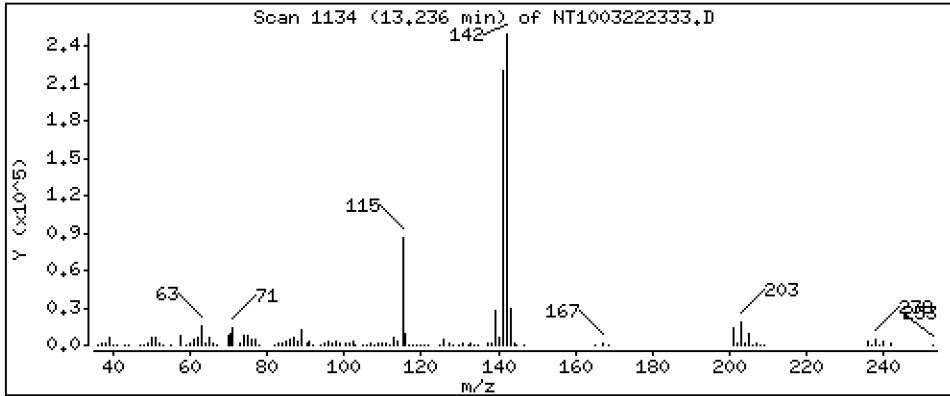
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 5,083 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

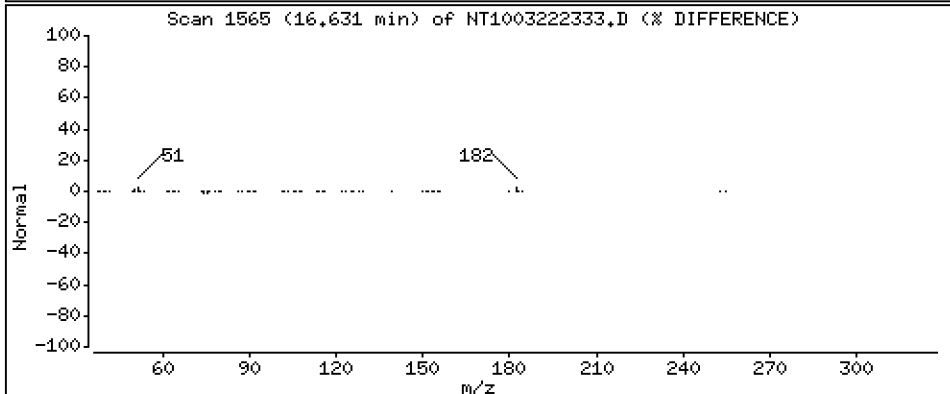
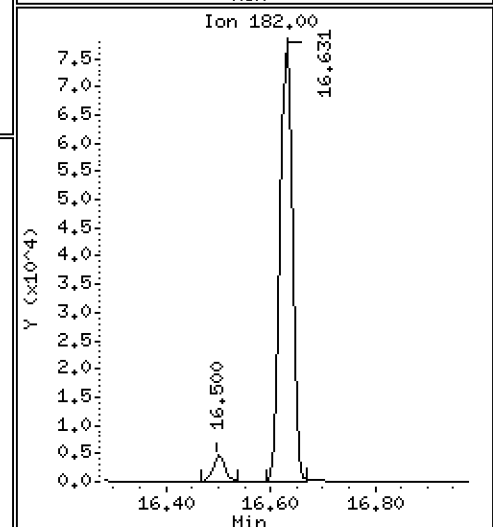
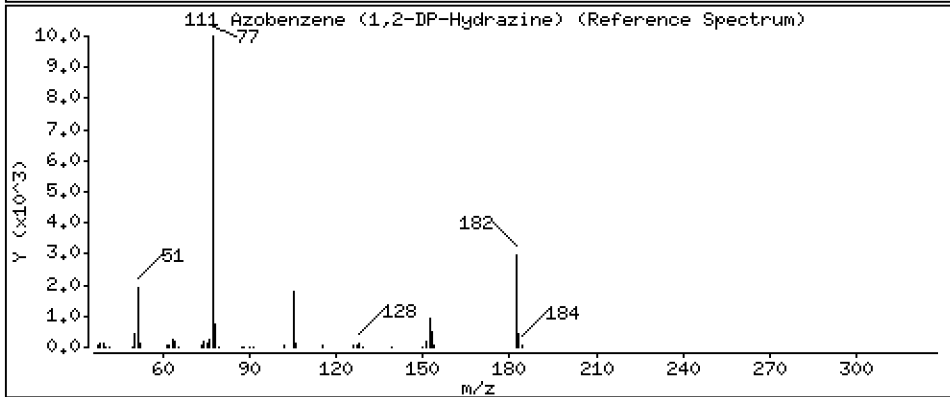
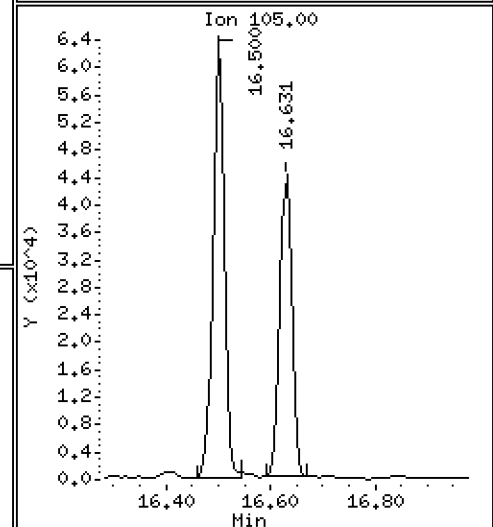
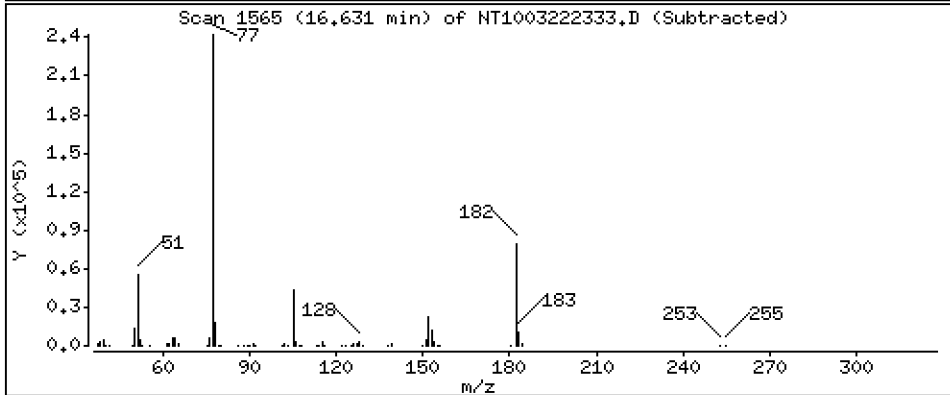
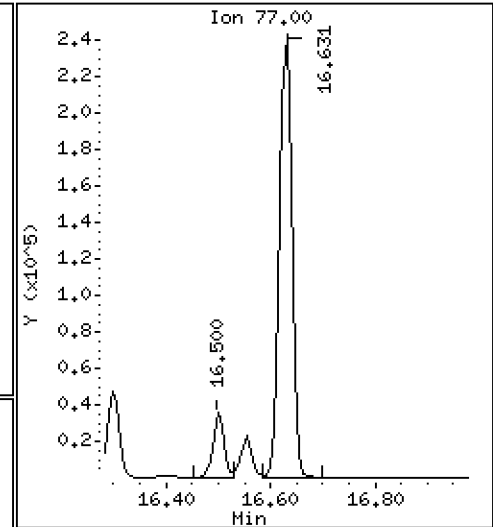
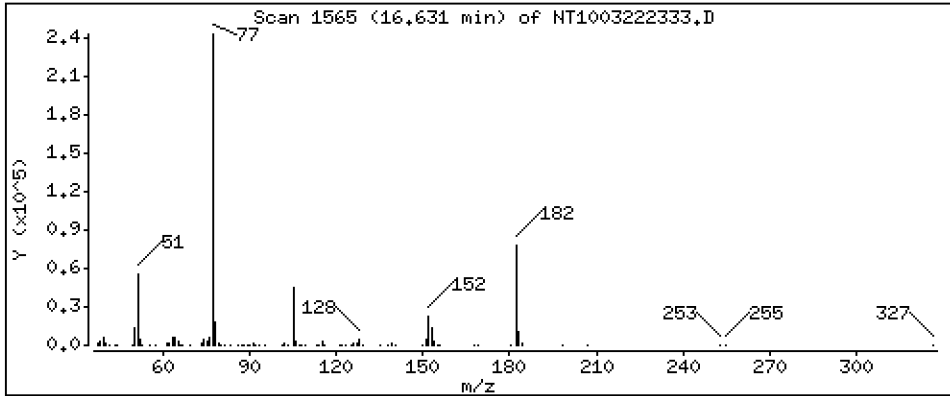
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 4,336 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

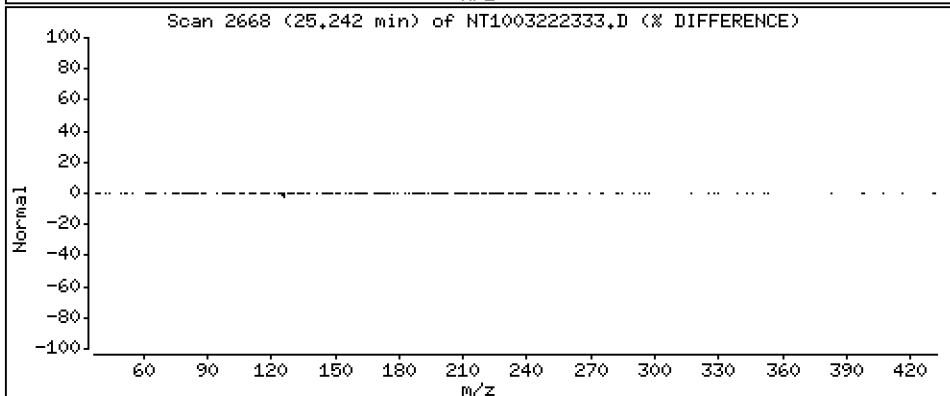
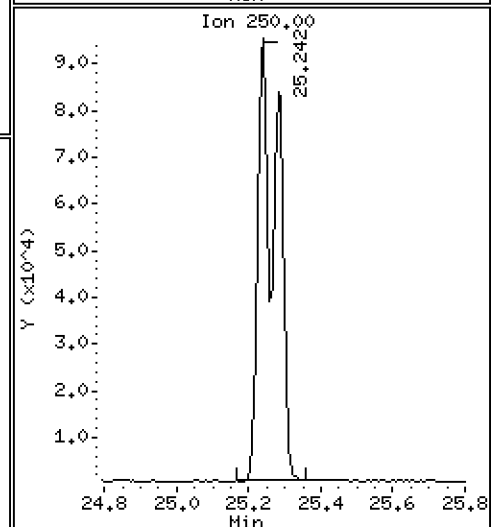
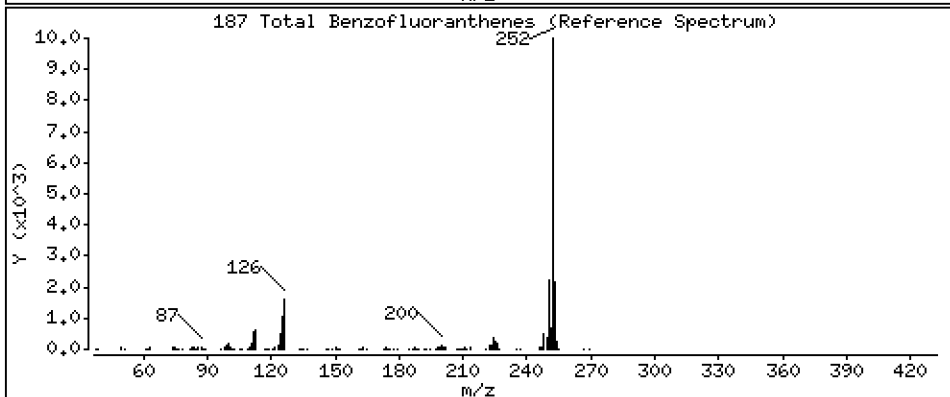
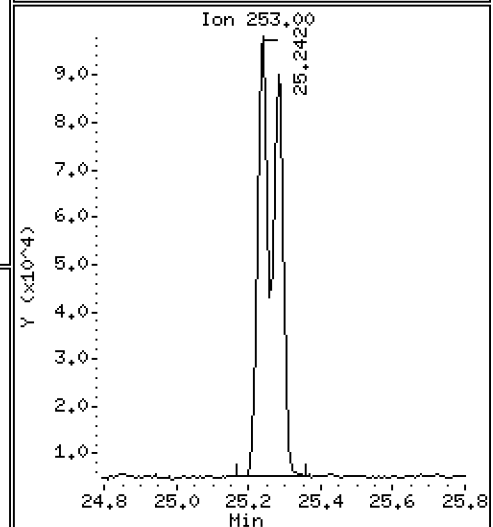
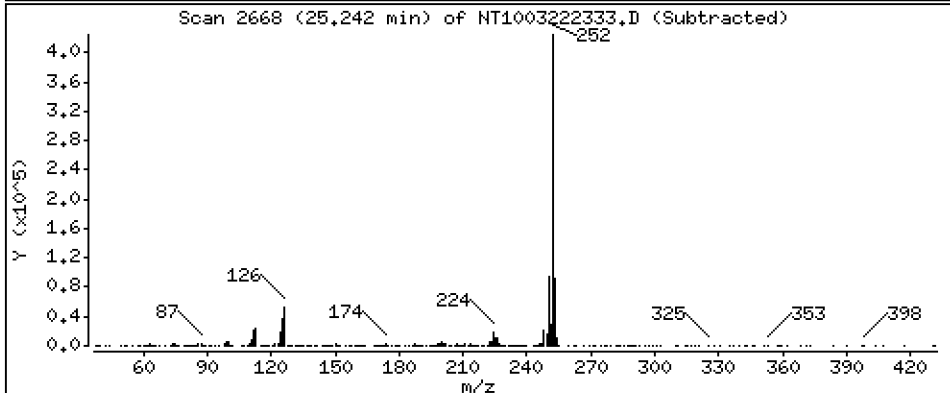
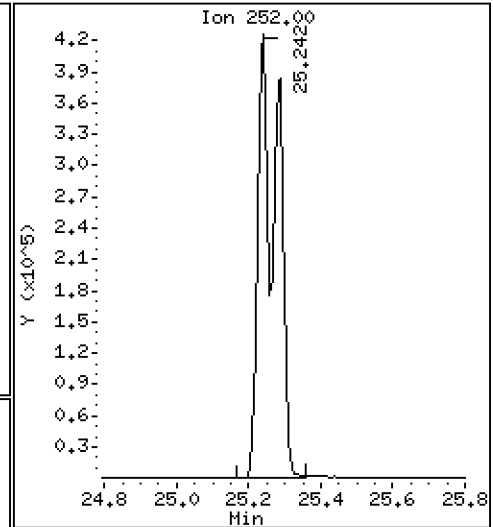
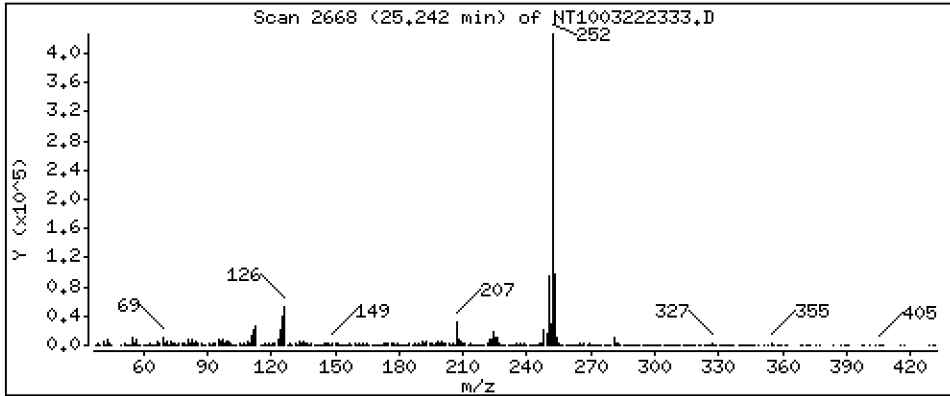
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 10,37 ug/mL



Date : 23-MAR-2023 13:22

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-CCV1

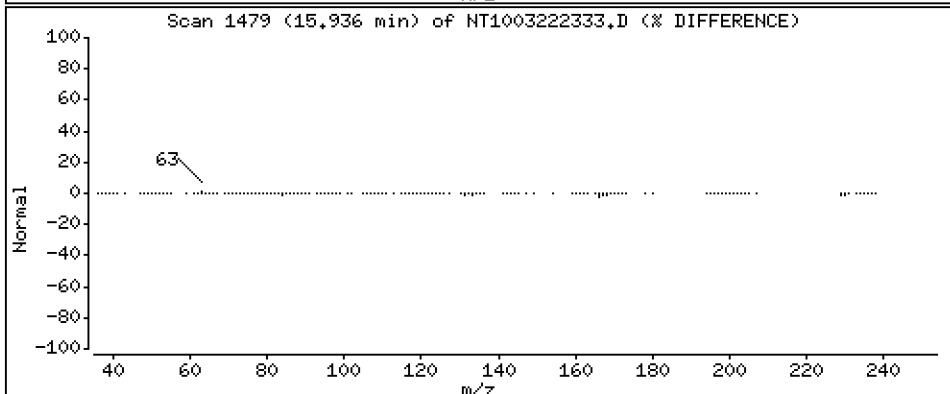
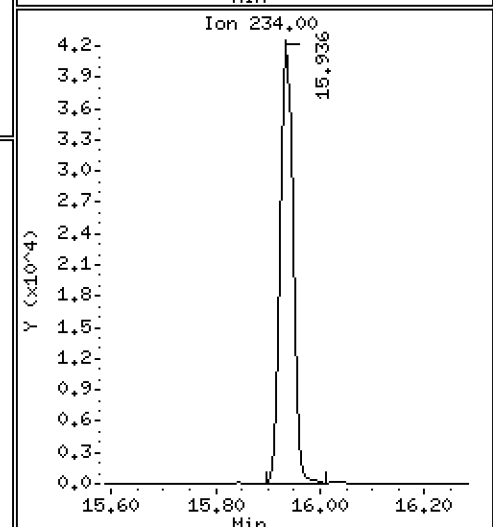
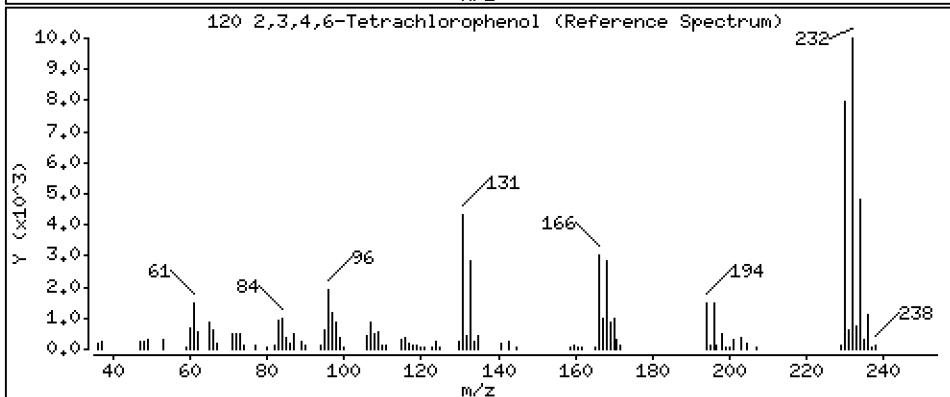
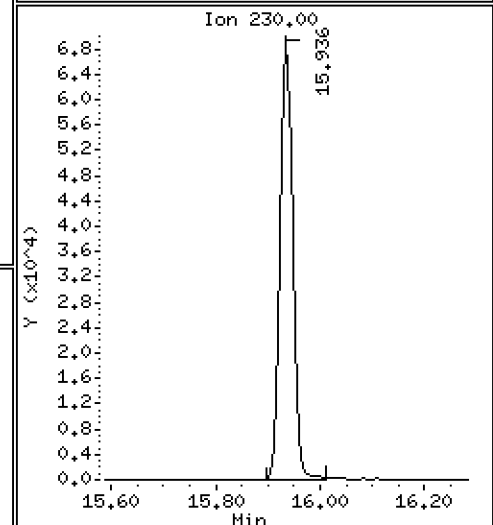
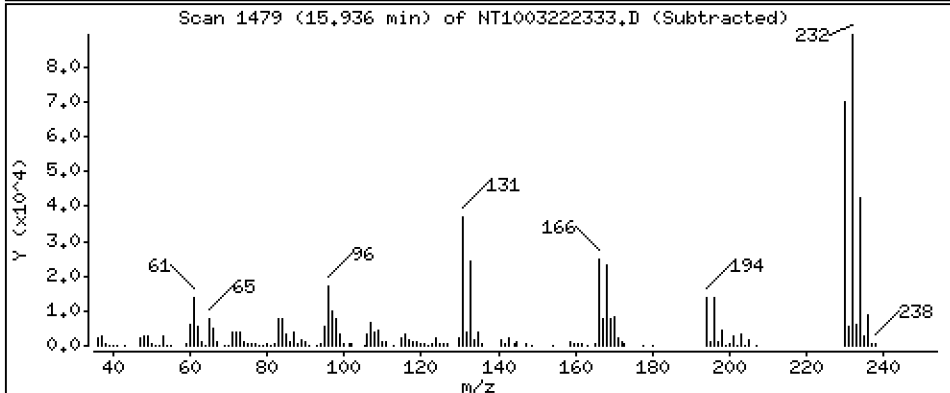
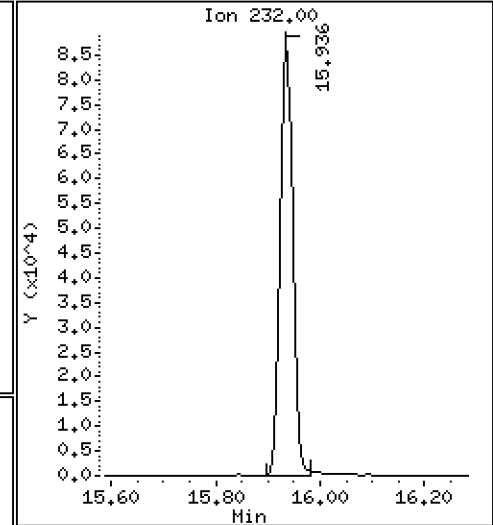
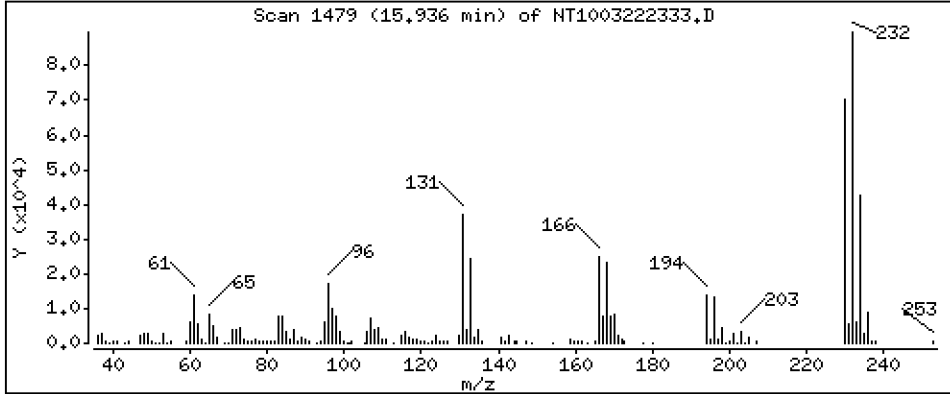
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

120 2,3,4,6-Tetrachlorophenol

Concentration: 5,463 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230322.b\NT1003222333.D
 Lab Smp Id: SLC0397-CCV1
 Inj Date : 23-MAR-2023 13:22
 Operator : VTS
 Smp Info : SLC0397-CCV1
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt10.i\20230322.b\ABN.m
 Meth Date : 25-Mar-2023 10:11 van
 Cal Date : 16-MAR-2023 00:22
 Als bottle: 2
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: VANS-201906

Inst ID: nt10.i

Quant Type: ISTD
 Cal File: NT10031508.D

Compound Sublist: ICAL.sub

| Compounds | QUANT | SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|---------------------------------|-------|-----|--------|--------|---------|----------|----------------|-----------|
| | | | | | | | ON-COLUMN | FINAL |
| | MASS | | | | | | (ug/mL) | (ug/mL) |
| \$ 1 2-Fluorophenol | 112 | | 6.859 | 6.851 | (0.755) | 263533 | 7.52570 | 7.526 |
| \$ 2 Phenol-d5 | 99 | | 8.451 | 8.450 | (0.930) | 346626 | 7.54550 | 7.546 |
| 3 Phenol | 94 | | 8.474 | 8.474 | (0.933) | 228308 | 4.78263 | 4.783 |
| \$ 5 2-Chlorophenol-d4 | 132 | | 8.721 | 8.721 | (0.960) | 300033 | 7.64846 | 7.648 |
| 4 Bis(2-Chloroethyl)ether | 93 | | 8.628 | 8.628 | (0.950) | 167467 | 4.72999 | 4.730 |
| 6 2-Chlorophenol | 128 | | 8.752 | 8.752 | (0.963) | 199359 | 4.87954 | 4.880 |
| 7 1,3-Dichlorobenzene | 146 | | 9.023 | 9.022 | (0.993) | 205673 | 4.76168 | 4.762 |
| * 8 1,4-Dichlorobenzene-d4 | 152 | | 9.085 | 9.085 | (1.000) | 115795 | 4.00000 | |
| 9 1,4-Dichlorobenzene | 146 | | 9.116 | 9.116 | (1.003) | 200447 | 4.80393 | 4.804 |
| \$ 10 1,2-Dichlorobenzene-d4 | 152 | | 9.442 | 9.441 | (1.039) | 137609 | 4.88466 | 4.885 |
| 12 1,2-Dichlorobenzene | 146 | | 9.473 | 9.473 | (1.043) | 197623 | 4.81255 | 4.813 |
| 11 Benzyl alcohol | 108 | | 9.356 | 9.356 | (1.030) | 119022 | 5.31200 | 5.312 |
| 14 2,2'-oxybis(1-Chloropropane) | 121 | | 9.659 | 9.659 | (1.063) | 55829 | 4.62951 | 4.630 (M) |
| 13 2-Methylphenol | 108 | | 9.589 | 9.589 | (1.056) | 170468 | 4.89868 | 4.899 |
| 17 Hexachloroethane | 117 | | 10.063 | 10.063 | (1.108) | 60830 | 3.55326 | 3.553 |
| 16 N-Nitroso-di-n-propylamine | 70 | | 9.915 | 9.915 | (1.091) | 129105 | 4.69859 | 4.699 |
| 15 4-Methylphenol | 108 | | 9.861 | 9.861 | (1.085) | 183908 | 5.01579 | 5.016 |
| \$ 18 Nitrobenzene-d5 | 82 | | 10.179 | 10.179 | (0.880) | 208700 | 4.89928 | 4.899 |
| 19 Nitrobenzene | 77 | | 10.218 | 10.218 | (0.883) | 192430 | 4.60310 | 4.603 |
| 20 Isophorone | 82 | | 10.668 | 10.668 | (0.922) | 284081 | 5.31201 | 5.312 |
| 21 2-Nitrophenol | 139 | | 10.850 | 10.850 | (0.938) | 132729 | 6.48402 | 6.484 |
| 22 2,4-Dimethylphenol | 107 | | 10.901 | 10.901 | (0.942) | 318040 | 8.28282 | 8.283 |
| 23 Bis(2-Chloroethoxy)methane | 93 | | 11.096 | 11.096 | (0.959) | 170784 | 4.78082 | 4.781 |
| 24 Benzoic acid | 105 | | 11.113 | 11.105 | (0.960) | 483940 | 21.5577 | 21.56 |
| 25 2,4-Dichlorophenol | 162 | | 11.308 | 11.308 | (0.977) | 360504 | 11.7324 | 11.73 |
| 26 1,2,4-Trichlorobenzene | 180 | | 11.487 | 11.487 | (0.993) | 181735 | 5.03854 | 5.039 |
| * 27 Naphthalene-d8 | 136 | | 11.572 | 11.572 | (1.000) | 422030 | 4.00000 | |
| 28 Naphthalene | 128 | | 11.619 | 11.618 | (1.004) | 535062 | 4.78580 | 4.786 |
| 29 4-Chloroaniline | 127 | | 11.750 | 11.750 | (1.015) | 448003 | 10.2715 | 10.27 |
| 30 Hexachlorobutadiene | 225 | | 11.974 | 11.981 | (1.035) | 110118 | 5.21038 | 5.210 |
| 31 4-Chloro-3-methylphenol | 107 | | 12.717 | 12.717 | (1.099) | 337651 | 10.1507 | 10.15 |
| 32 2-Methylnaphthalene | 142 | | 13.011 | 13.018 | (1.124) | 423511 | 5.24908 | 5.249 |
| 33 Hexachlorocyclopentadiene | 237 | | 13.475 | 13.483 | (0.886) | 39462 | 1.74290 | 1.743 |

| Compounds | QUANT SIG | | | | | CONCENTRATIONS | |
|-----------------------------------|-----------|--------|--------|---------|----------|----------------------|------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | ON-COLUMN (ug/mL) | FINAL (ug/mL) |
| 34 2,4,6-Trichlorophenol | 196 | 13.638 | 13.638 | (0.897) | 264698 | 10.9471 | 10.95 |
| 35 2,4,5-Trichlorophenol | 196 | 13.715 | 13.715 | (0.902) | 289618 | 10.7797 | 10.78 |
| § 36 2-Fluorobiphenyl | 172 | 13.800 | 13.800 | (0.908) | 469782 | 4.85440 | 4.854 |
| 37 2-Chloronaphthalene | 162 | 14.009 | 14.009 | (0.922) | 378696 | 4.83283 | 4.833 |
| 38 2-Nitroaniline | 65 | 14.272 | 14.272 | (0.939) | 204703 | 9.29997 | 9.300 |
| 39 Dimethylphthalate | 163 | 14.706 | 14.706 | (0.967) | 407667 | 5.12953 | 5.130 |
| 40 Acenaphthylene | 152 | 14.884 | 14.884 | (0.979) | 650735 | 5.32942 | 5.329 |
| 41 2,6-Dinitrotoluene | 165 | 14.845 | 14.845 | (0.977) | 191235 | 11.1388 | 11.14 |
| * 42 Acenaphthene-d10 | 164 | 15.201 | 15.201 | (1.000) | 244644 | 4.00000 | |
| 43 3-Nitroaniline | 138 | 15.131 | 15.131 | (0.995) | 200274 | 10.3352 | 10.34 |
| 44 Acenaphthene | 153 | 15.263 | 15.263 | (1.004) | 361592 | 4.79357 | 4.794 |
| 45 2,4-Dinitrophenol | 184 | 15.340 | 15.348 | (1.009) | 201353 | 18.7103 | 18.71 |
| 46 Dibenzofuran | 168 | 15.595 | 15.595 | (1.026) | 537334 | 4.83054 | 4.831 |
| 47 4-Nitrophenol | 109 | 15.464 | 15.464 | (1.017) | 101040 | 8.33322 | 8.333 |
| 48 2,4-Dinitrotoluene | 165 | 15.657 | 15.657 | (1.030) | 260002 | 10.1788 | 10.18 |
| 50 Diethylphthalate | 149 | 16.167 | 16.175 | (1.064) | 459549 | 5.89342 | 5.893 |
| 49 Fluorene | 166 | 16.314 | 16.314 | (1.073) | 437324 | 4.99723 | 4.997 |
| 51 4-Chlorophenyl-phenylether | 204 | 16.299 | 16.306 | (1.072) | 208395 | 5.00766 | 5.008 |
| 52 4-Nitroaniline | 138 | 16.406 | 16.406 | (1.079) | 189891 | 10.8738 | 10.87 |
| 53 4,6-Dinitro-2-methylphenol | 198 | 16.499 | 16.507 | (0.904) | 268362 | 18.9651 | 18.97 |
| 54 N-Nitrosodiphenylamine | 169 | 16.553 | 16.561 | (0.907) | 287756 | 4.69189 | 4.692 |
| § 55 2,4,6-Tribromophenol | 330 | 16.846 | 16.846 | (1.108) | 98341 | 8.64149 | 8.641 |
| 56 4-Bromophenyl-phenylether | 248 | 17.309 | 17.316 | (0.948) | 135360 | 5.27572 | 5.276 |
| 57 Hexachlorobenzene | 284 | 17.626 | 17.634 | (0.966) | 141647 | 5.26567 | 5.266 |
| 58 Pentachlorophenol | 266 | 17.990 | 17.990 | (0.986) | 171062 | 10.5331 | 10.53 |
| * 59 Phenanthrene-d10 | 188 | 18.253 | 18.260 | (1.000) | 458729 | 4.00000 | |
| 60 Phenanthrene | 178 | 18.299 | 18.307 | (1.003) | 598772 | 4.78690 | 4.787 |
| 61 Anthracene | 178 | 18.400 | 18.400 | (1.008) | 609453 | 5.07923 | 5.079 |
| 62 Carbazole | 167 | 18.732 | 18.732 | (1.026) | 549337 | 5.10909 | 5.109 |
| 63 Di-n-butylphthalate | 149 | 19.537 | 19.545 | (1.070) | 756582 | 5.26273 | 5.263 |
| 64 Fluoranthene | 202 | 20.705 | 20.713 | (0.887) | 733927 | 4.10019 | 4.100 |
| 65 Pyrene | 202 | 21.139 | 21.139 | (0.905) | 763517 | 4.15813 | 4.158 |
| § 66 Terphenyl-d14 | 244 | 21.425 | 21.433 | (0.918) | 621275 | 4.50541 | 4.505 |
| 67 Butylbenzylphthalate | 149 | 22.370 | 22.377 | (0.958) | 325575 | 4.89642 | 4.896 |
| 68 Benzo(a)anthracene | 228 | 23.314 | 23.322 | (0.999) | 757898 | 4.82007 | 4.820 |
| * 69 Chrysene-d12 | 240 | 23.345 | 23.353 | (1.000) | 445472 | 4.00000 | |
| 70 3,3'-Dichlorobenzidine | 252 | 23.276 | 23.283 | (0.997) | 835760 | 16.5939 | 16.59 |
| 71 Chrysene | 228 | 23.392 | 23.399 | (1.002) | 704000 | 4.58278 | 4.583 |
| 72 bis(2-Ethylhexyl)phthalate | 149 | 23.407 | 23.415 | (0.959) | 472508 | 4.50969 | 4.510 |
| * 134 Di-n-octylphthalate-d4 | 153 | 24.406 | 24.421 | (1.000) | 714340 | 4.00000 | |
| 73 Di-n-octylphthalate | 149 | 24.421 | 24.437 | (1.001) | 860321 | 4.60218 | 4.602 |
| 74 Benzo(b)fluoranthene | 252 | 25.242 | 25.250 | (0.970) | 793424 | 5.06443 | 5.064 |
| 75 Benzo(k)fluoranthene | 252 | 25.288 | 25.296 | (0.972) | 851670 | 5.35367 | 5.354 |
| 76 Benzo(a)pyrene | 252 | 25.908 | 25.923 | (0.996) | 721175 | 5.14874 | 5.149 |
| * 77 Perylene-d12 | 264 | 26.024 | 26.040 | (1.000) | 483312 | 4.00000 | |
| 78 Indeno(1,2,3-cd)pyrene | 276 | 28.777 | 28.793 | (1.106) | 754844 | 4.23593 | 4.236 |
| 79 Dibenzo(a,h)anthracene | 278 | 28.793 | 28.816 | (1.106) | 654511 | 4.42399 | 4.424 |
| 80 Benzo(g,h,i)perylene | 276 | 29.577 | 29.601 | (1.137) | 582203 | 3.77520 | 3.775 |
| 90 N-Nitrosodimethylamine | 74 | 4.673 | 4.665 | (0.514) | 201507 | 9.01977 | 9.020 |
| 91 Aniline | 93 | 8.543 | 8.543 | (0.940) | 456512 | 9.33302 | 9.333 |
| 93 Benzidine | 184 | 20.945 | 20.953 | (0.897) | 416688 | 5.66724 | 5.667 |
| 103 Pyridine | 79 | 4.696 | 4.696 | (0.517) | 313008 | 9.12280 | 9.123 |
| 105 1-methylnaphthalene | 142 | 13.235 | 13.235 | (1.144) | 375736 | 5.08283 | 5.083 |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77 | 16.630 | 16.630 | (1.094) | 377672 | 4.33583 | 4.336 |

| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|-------------------------------|-----------|--------|--------|---------|----------|----------------------|------------------|
| | | | | | | ON-COLUMN (ug/mL) | FINAL (ug/mL) |
| 187 Total Benzofluoranthenes | 252 | 25.242 | 25.296 | (0.970) | 1568584 | 10.3698 | 10.37 |
| 120 2,3,4,6-Tetrachlorophenol | 232 | 15.935 | 15.935 | (1.048) | 139401 | 5.46295 | 5.463 |

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 23-MAR-2023
 Lab File ID: NT1003222333.D Calibration Time: 03:15
 Lab Smp Id: SLC0397-CCV1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt10.i\20230322.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|--------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 137603 | 68802 | 275206 | 115795 | -15.85 |
| 27 Naphthalene-d8 | 494588 | 247294 | 989176 | 422030 | -14.67 |
| 42 Acenaphthene-d10 | 278674 | 139337 | 557348 | 244644 | -12.21 |
| 59 Phenanthrene-d10 | 509229 | 254615 | 1018458 | 458729 | -9.92 |
| 69 Chrysene-d12 | 462271 | 231136 | 924542 | 445472 | -3.63 |
| 134 Di-n-octylphthala | 782572 | 391286 | 1565144 | 714340 | -8.72 |
| 77 Perylene-d12 | 551153 | 275577 | 1102306 | 483312 | -12.31 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 9.09 | 8.59 | 9.59 | 9.09 | 0.00 |
| 27 Naphthalene-d8 | 11.57 | 11.07 | 12.07 | 11.57 | 0.00 |
| 42 Acenaphthene-d10 | 15.20 | 14.70 | 15.70 | 15.20 | 0.00 |
| 59 Phenanthrene-d10 | 18.26 | 17.76 | 18.76 | 18.25 | -0.04 |
| 69 Chrysene-d12 | 23.35 | 22.85 | 23.85 | 23.35 | -0.03 |
| 134 Di-n-octylphthala | 24.42 | 23.92 | 24.92 | 24.41 | -0.06 |
| 77 Perylene-d12 | 26.04 | 25.54 | 26.54 | 26.02 | -0.06 |

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

REVIEW SUMMARY FOR FILE - NT1003222333.D

Lab ID: SLC0397-CCV1
nt10.i, 20230322.b\ABN.m, 23-MAR-2023 13:22

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

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

NONE

RRT check based on Ccal File: NT1003222317.D

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

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

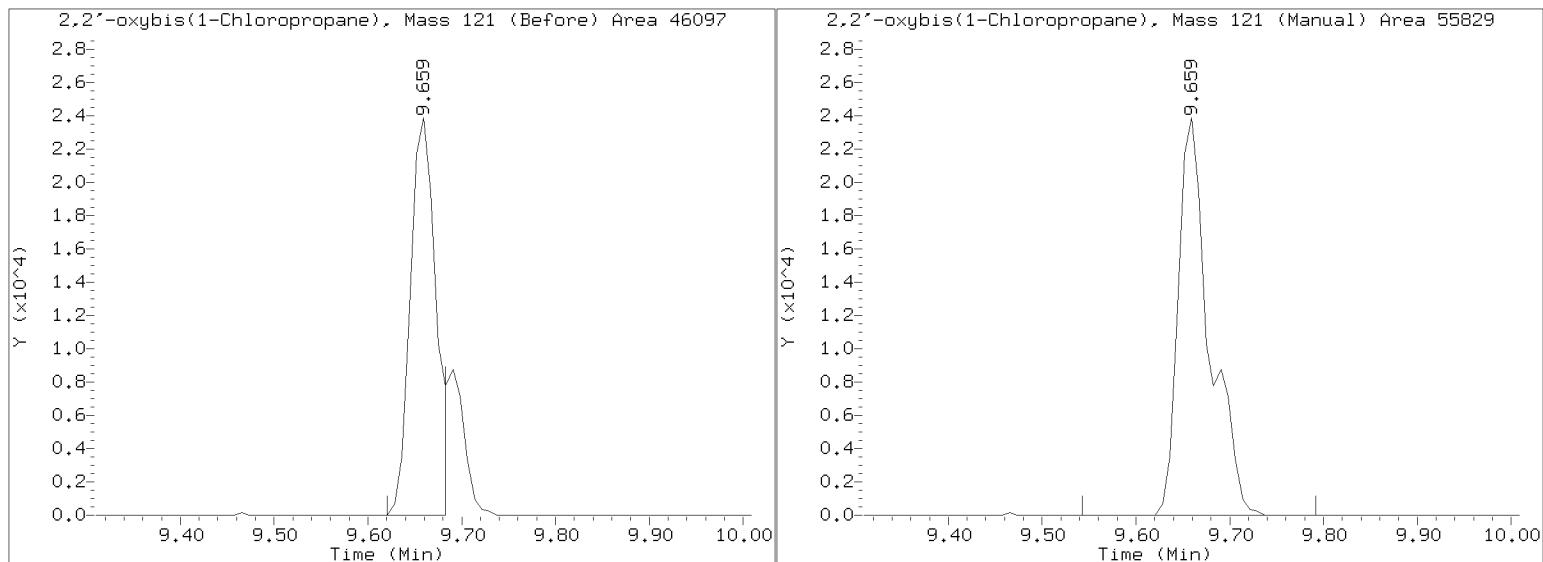
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230322.b/NT1003222333.D

Injection Date: 23-MAR-2023 13:22

Lab ID: SLC0397-CCV1 Client ID:

Report Date: 03/25/2023 10:14





**LOW-CONCENTRATION
CONTINUING CALIBRATION CHECK
EPA 8270E**

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: NT10

Calibration: GC00046

Lab File ID: NT1003222304.D

Calibration Date: 03/15/2023

Sequence: SLC0397

Injection Date: 03/22/23

Lab Sample ID: SLC0397-LCV1

Injection Time: 18:59

Sequence Name: ABN 0.2

| COMPOUND | TYPE | CONC. (ug/mL) | | RESPONSE FACTOR (RRF) | | | % DRIFT/DIFF | |
|-----------------------------|------|---------------|-------|-----------------------|-----------|-----|--------------|-------|
| | | STD | CCV | ICAL | CCV | MIN | CCV | LIMIT |
| Phenol | A | 0.20000 | 0.2 | 1.6490140 | 1.5427190 | | -6.4 | +/-50 |
| 4-Methylphenol | A | 0.20000 | 0.2 | 1.2665770 | 1.1206710 | | -11.5 | +/-50 |
| Naphthalene | A | 0.20000 | 0.2 | 1.0596590 | 1.1138270 | | 5.1 | +/-50 |
| 2-Methylnaphthalene | A | 0.20000 | 0.2 | 0.7647129 | 0.8165634 | | 6.8 | +/-50 |
| Acenaphthylene | A | 0.20000 | 0.2 | 1.9964080 | 1.9788380 | | -0.9 | +/-50 |
| Dimethylphthalate | A | 0.20000 | 0.2 | 1.2994310 | 1.3241070 | | 1.9 | +/-50 |
| Acenaphthene | A | 0.20000 | 0.2 | 1.2333460 | 1.2205790 | | -1.0 | +/-50 |
| Dibenzofuran | A | 0.20000 | 0.2 | 1.8187540 | 1.8497910 | | 1.7 | +/-50 |
| Fluorene | A | 0.20000 | 0.2 | 1.4308680 | 1.5068750 | | 5.3 | +/-50 |
| Phenanthrene | A | 0.20000 | 0.2 | 1.0907130 | 1.1278710 | | 3.4 | +/-50 |
| Anthracene | A | 0.20000 | 0.2 | 1.0462760 | 0.9521428 | | -9.0 | +/-50 |
| Fluoranthene | A | 0.20000 | 0.2 | 1.6072690 | 1.4728930 | | -8.4 | +/-50 |
| Pyrene | A | 0.20000 | 0.2 | 1.6487720 | 1.5084460 | | -8.5 | +/-50 |
| Butylbenzylphthalate | A | 0.20000 | 0.2 | 0.5292894 | 0.5316268 | | -8.2 | +/-50 |
| Benzo(a)anthracene | A | 0.20000 | 0.2 | 1.4118770 | 1.4155010 | | 0.3 | +/-50 |
| Chrysene | A | 0.20000 | 0.2 | 1.3793780 | 1.4161940 | | 2.7 | +/-50 |
| bis(2-Ethylhexyl)phthalate | A | 0.20000 | 0.2 | 0.5248968 | 0.4835109 | | -17.4 | +/-50 |
| Benzo(a)fluoranthene, Total | A | 0.40000 | 0.4 | 1.2519020 | 1.2780630 | | 2.1 | +/-50 |
| Benzo(a)pyrene | A | 0.20000 | 0.2 | 1.1592370 | 1.1874690 | | 2.4 | +/-50 |
| Indeno(1,2,3-cd)pyrene | A | 0.20000 | 0.2 | 1.4748270 | 1.4548480 | | -1.4 | +/-50 |
| Dibenzo(a,h)anthracene | A | 0.20000 | 0.2 | 1.2244340 | 1.2657790 | | 3.4 | +/-50 |
| Benzo(g,h,i)perylene | A | 0.20000 | 0.2 | 1.2763410 | 1.3078840 | | 2.5 | +/-50 |
| 2-Fluorophenol | A | 0.30000 | 0.302 | 1.2096460 | 1.2172760 | | 0.6 | +/-50 |
| Phenol-d5 | A | 0.30000 | 0.275 | 1.5868760 | 1.4567700 | | -8.2 | +/-50 |
| 2-Chlorophenol-d4 | A | 0.30000 | 0.297 | 1.3550800 | 1.3408250 | | -1.1 | +/-50 |
| 1,2-Dichlorobenzene-d4 | A | 0.20000 | 0.210 | 0.9731556 | 1.0230810 | | 5.1 | +/-50 |
| Nitrobenzene-d5 | A | 0.20000 | 0.173 | 0.4037447 | 0.3497124 | | -13.4 | +/-50 |
| 2-Fluorobiphenyl | A | 0.20000 | 0.206 | 1.5822890 | 1.6296870 | | 3.0 | +/-50 |
| 2,4,6-Tribromophenol | A | 0.30000 | 0.256 | 0.1585901 | 0.1607526 | | -14.6 | +/-50 |
| p-Terphenyl-d14 | A | 0.20000 | 0.202 | 1.2381950 | 1.2489120 | | 0.9 | +/-50 |

* Values outside of QC limits

* Values outside of QC limits

Data File: \\target\share\chem3\nt10,1\20230322,16\NT1003222304.D

Date: 22-MAR-2023 18:59

Client ID:

Sample Info: SLC0397-LCW1

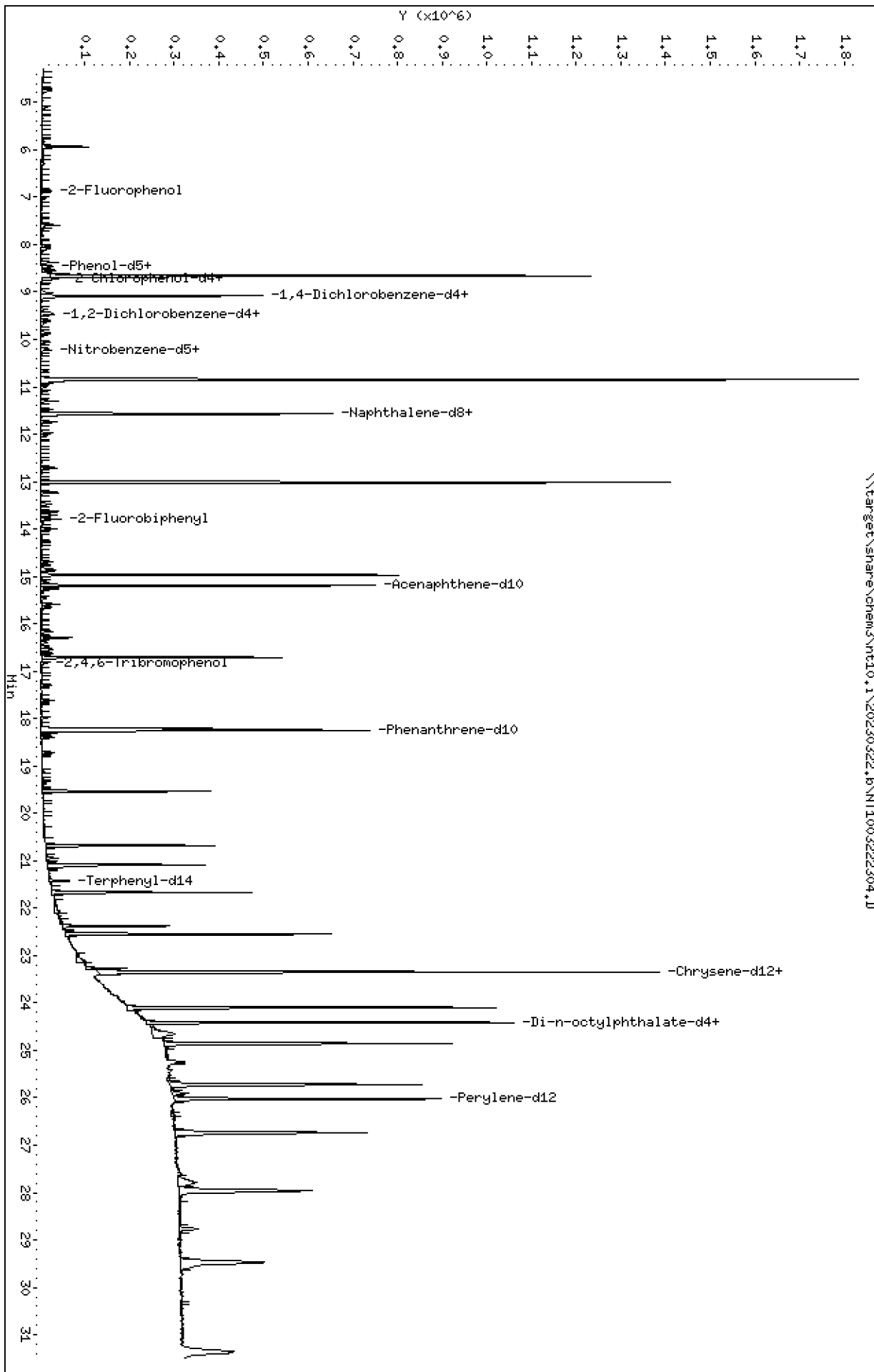
Column phase: ZB-5msi

Instrument: nt10,1

Operator: VTS

Column diameter: 0.25

Page 1



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

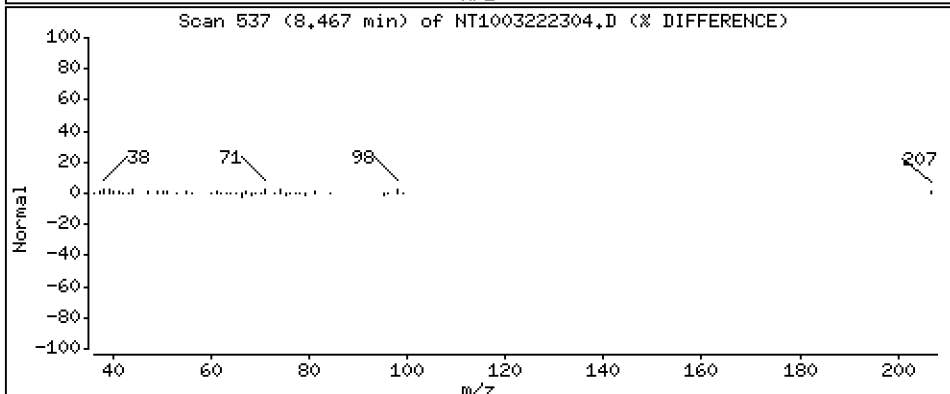
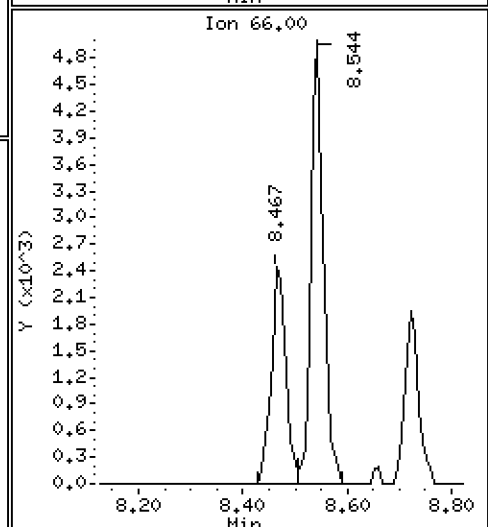
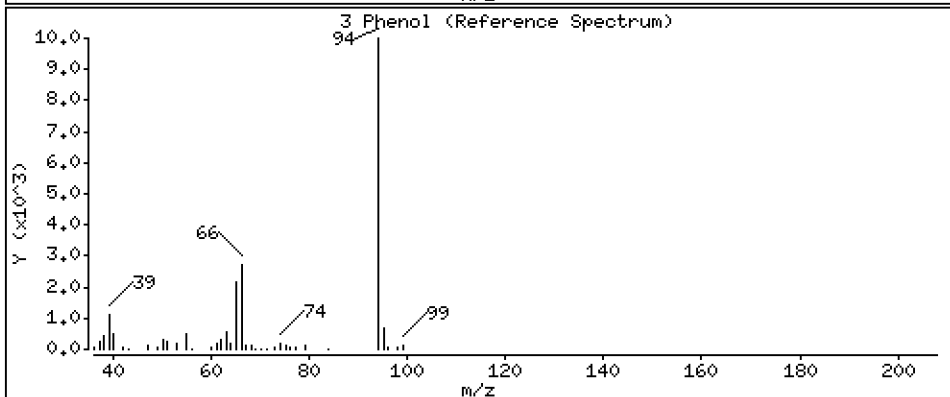
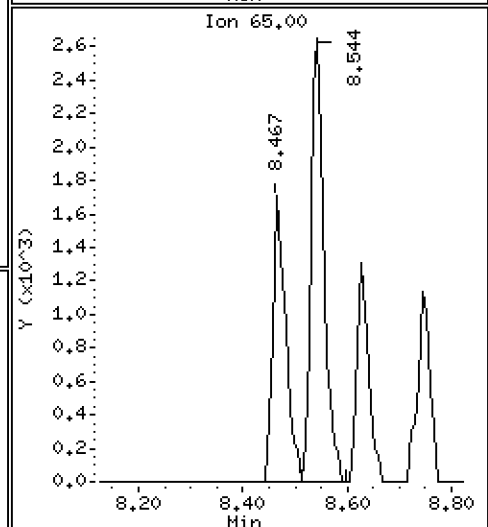
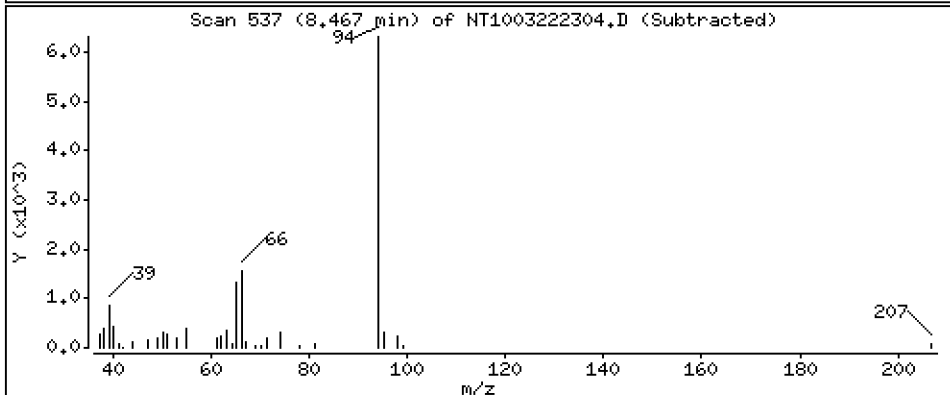
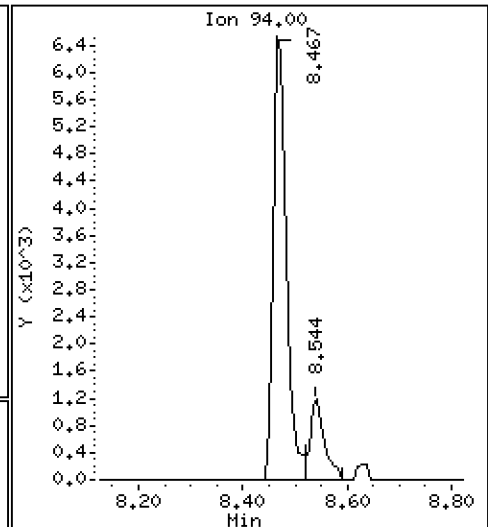
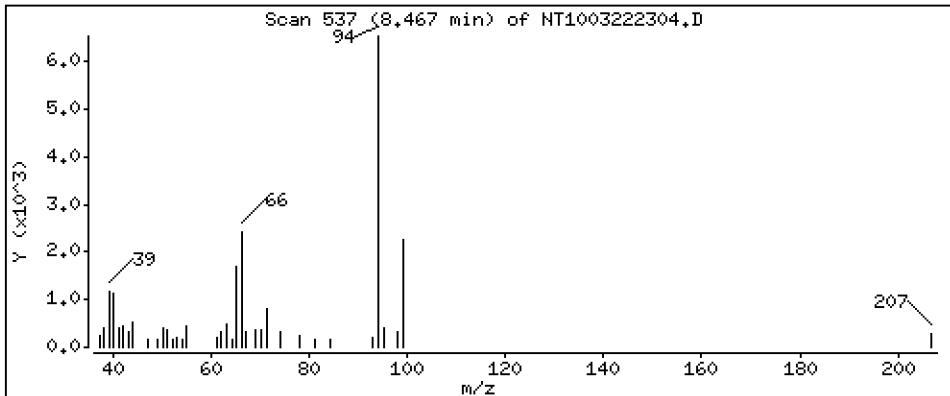
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 0,1871 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

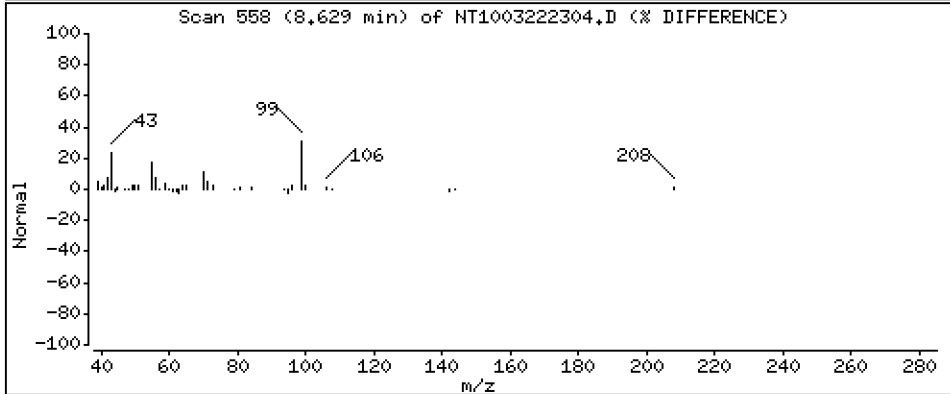
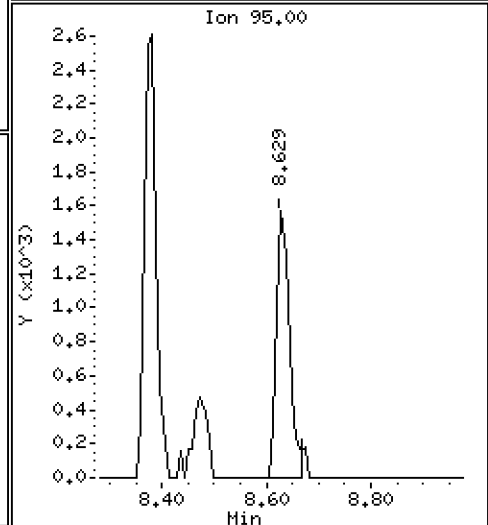
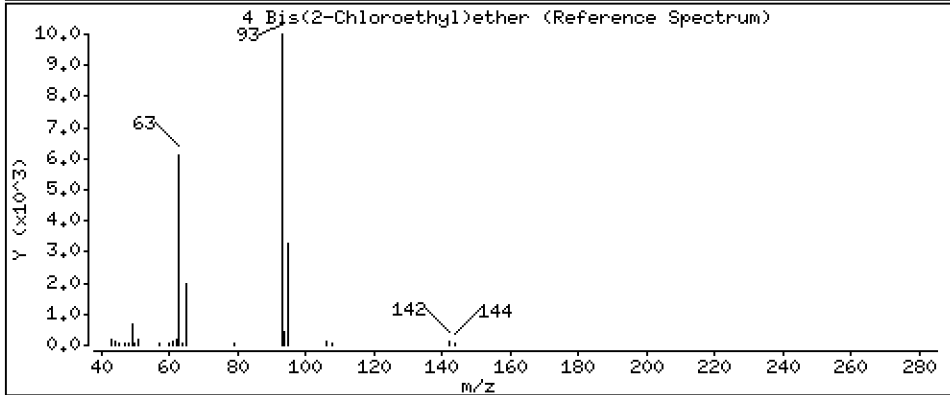
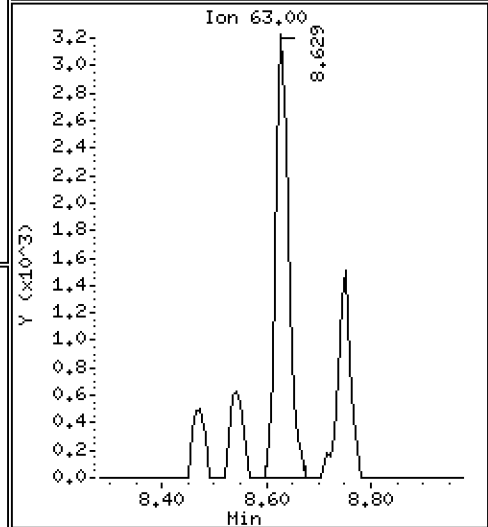
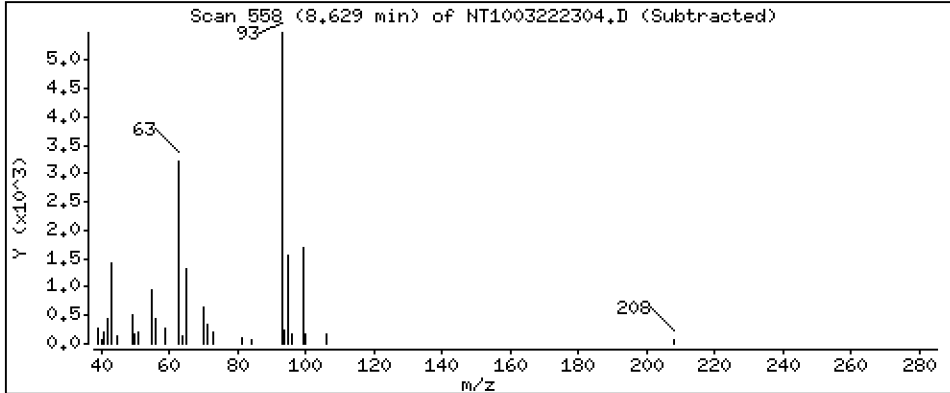
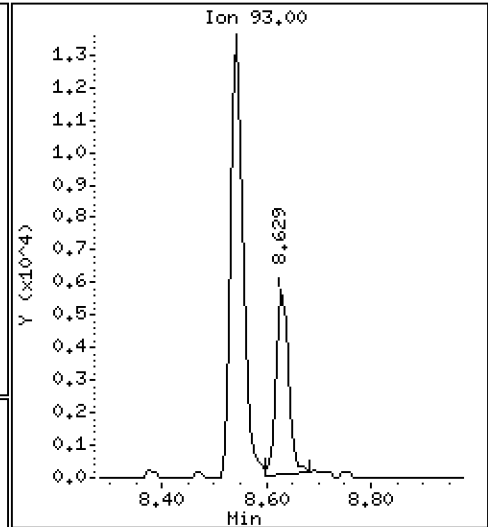
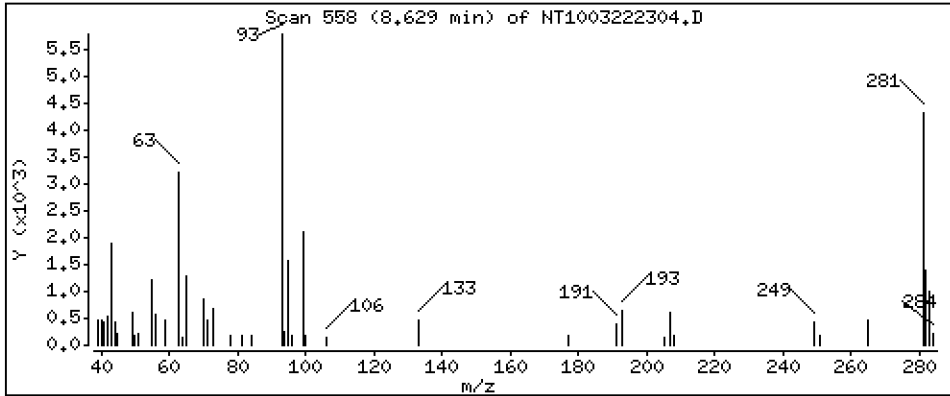
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

4 Bis(2-Chloroethyl)ether

Concentration: 0.2020 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

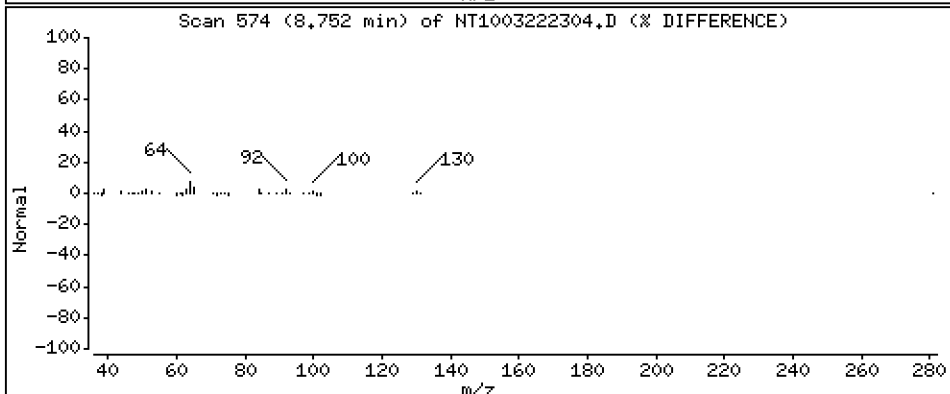
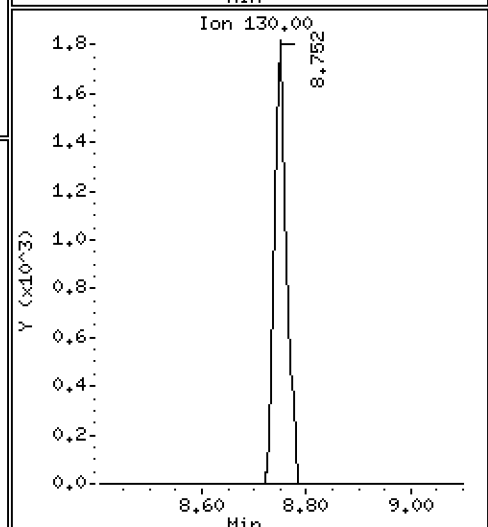
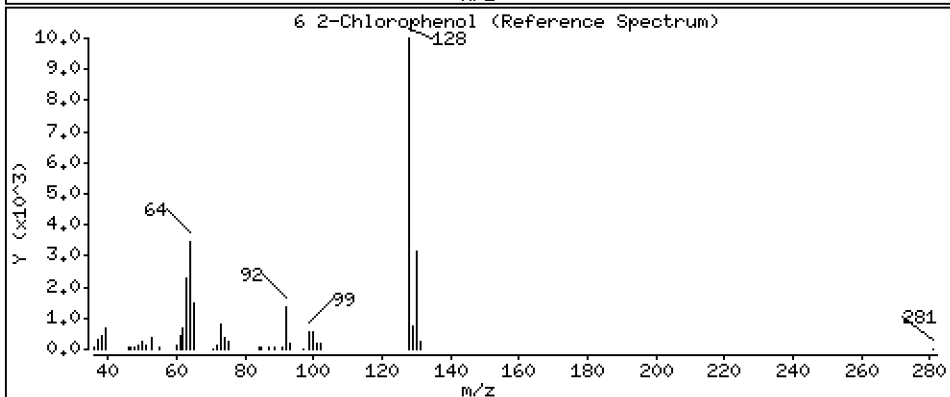
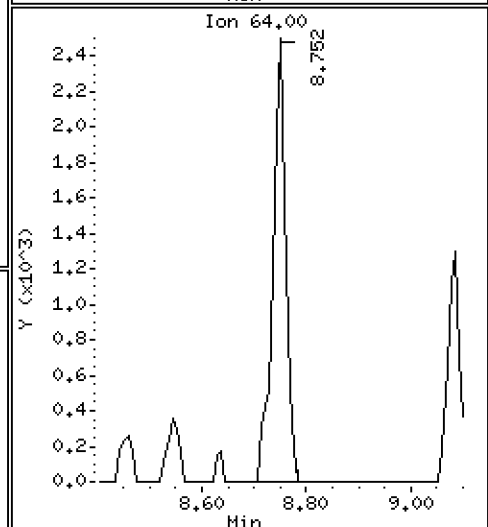
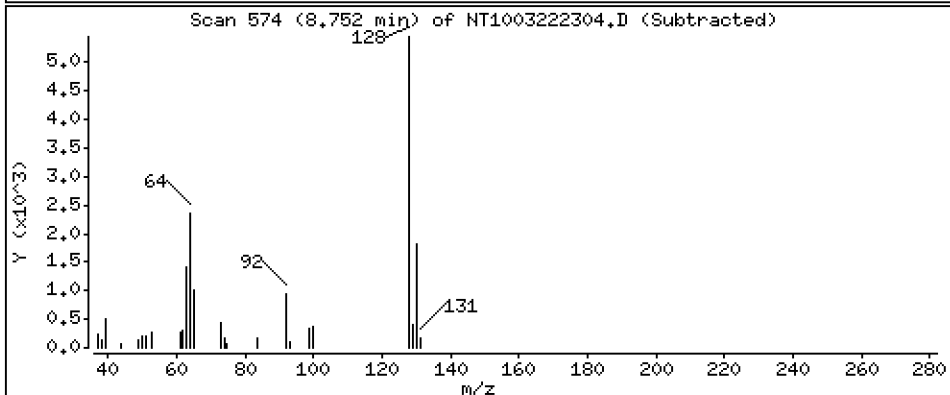
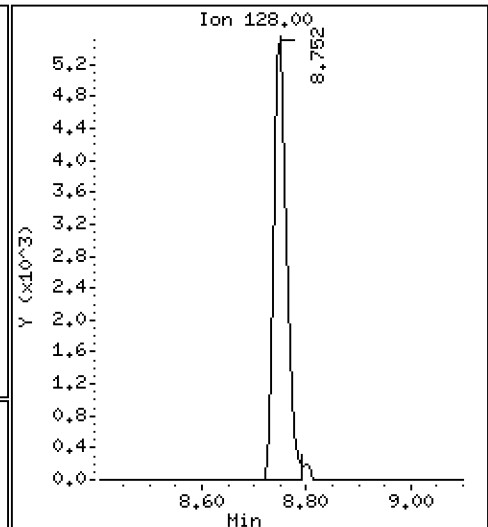
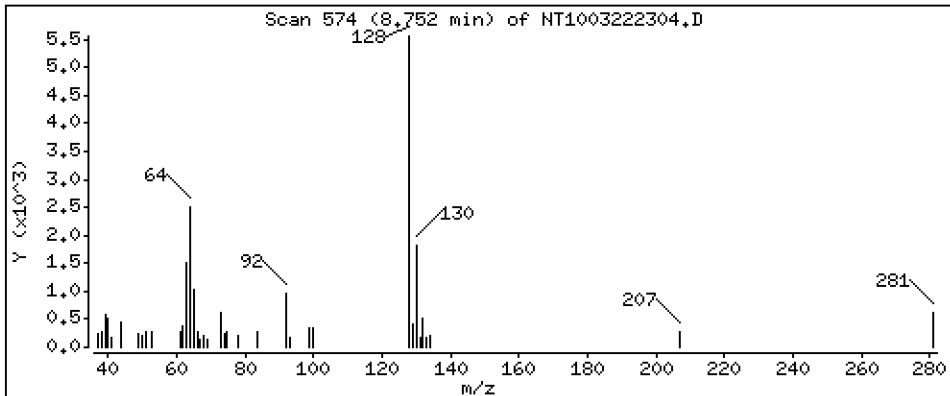
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 0,1878 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

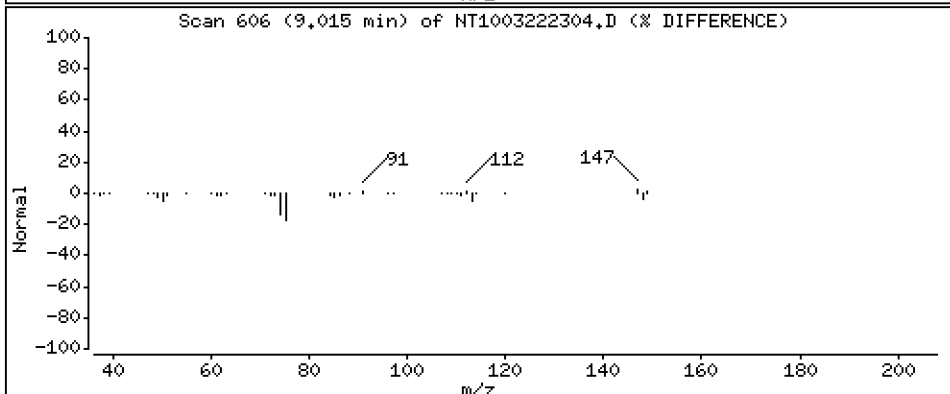
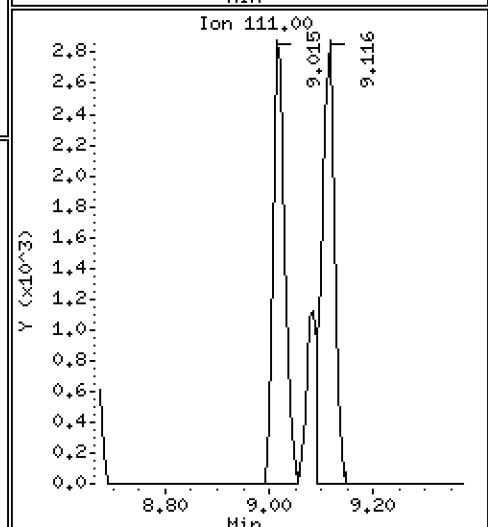
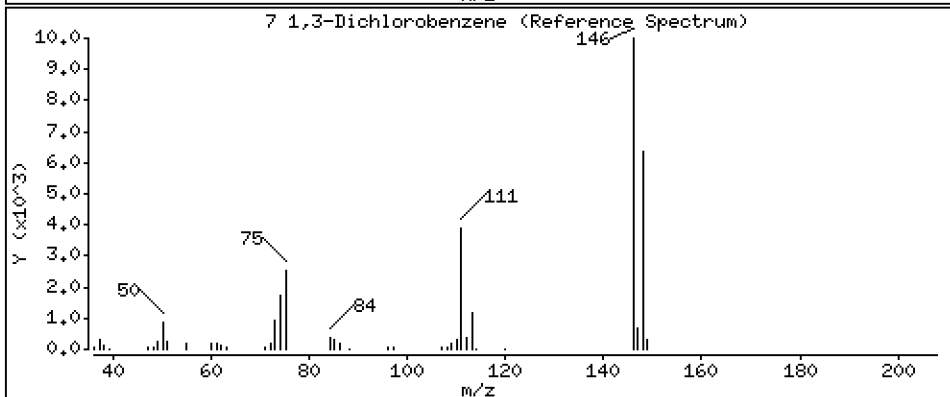
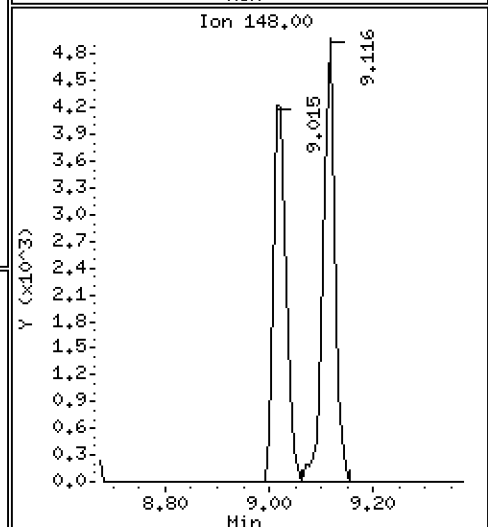
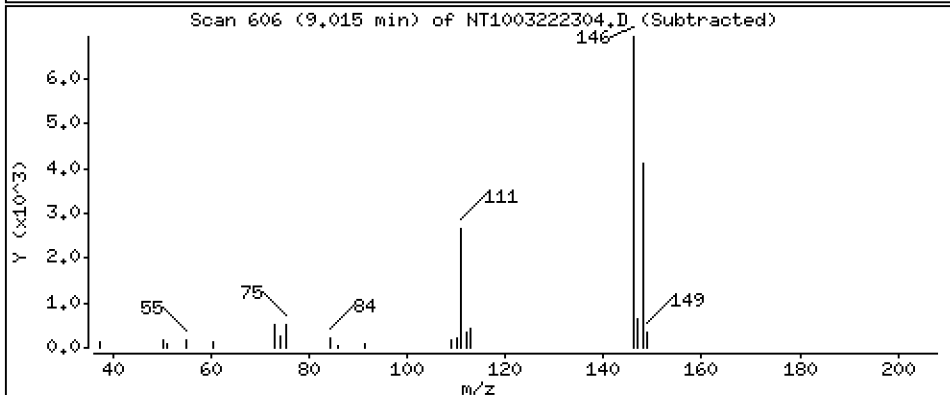
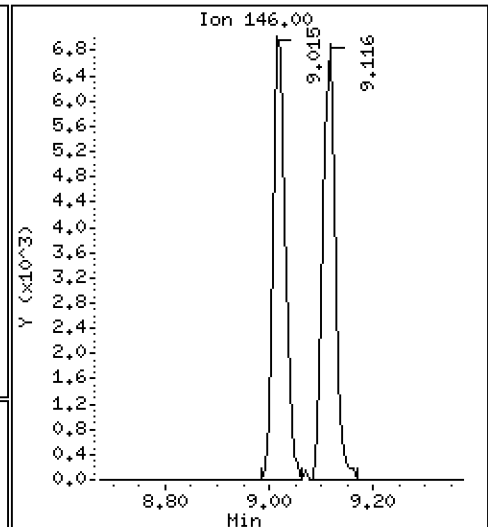
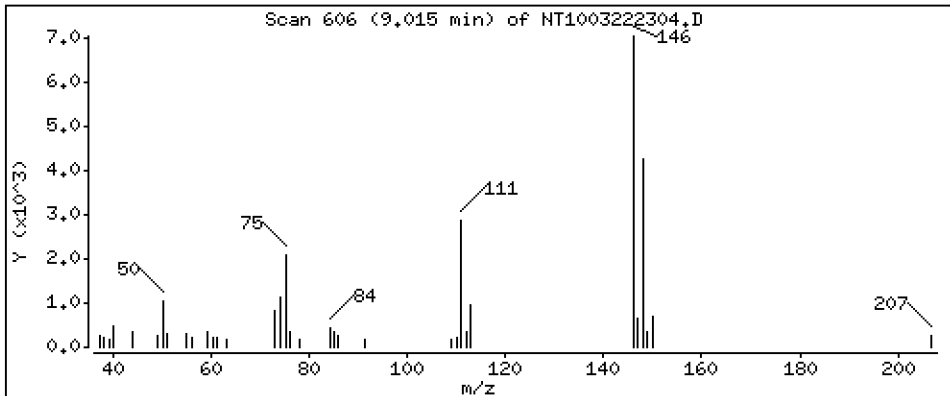
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

7 1,3-Dichlorobenzene

Concentration: 0.2192 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

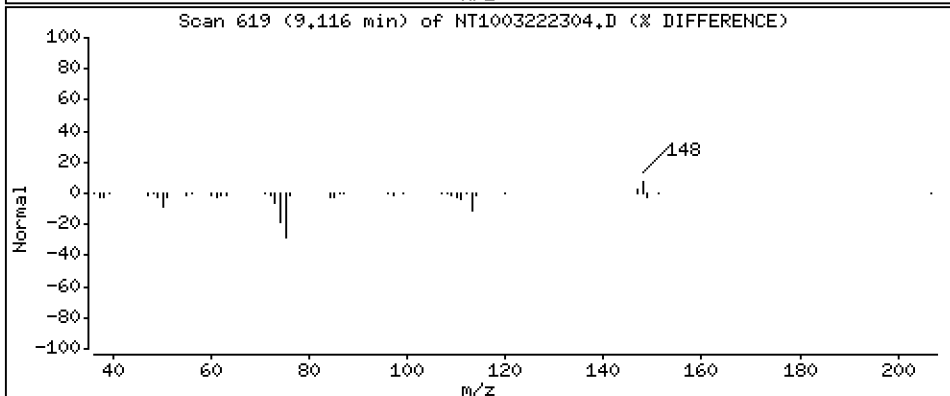
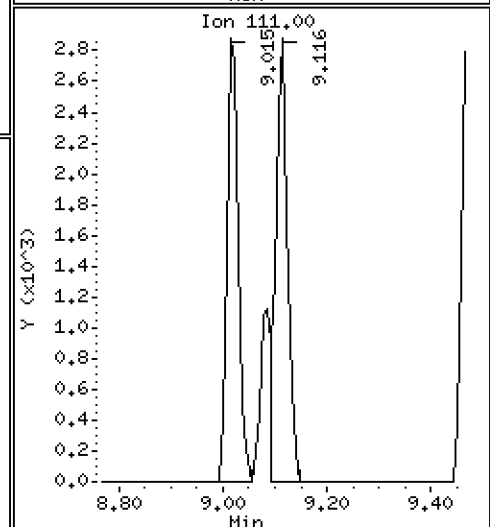
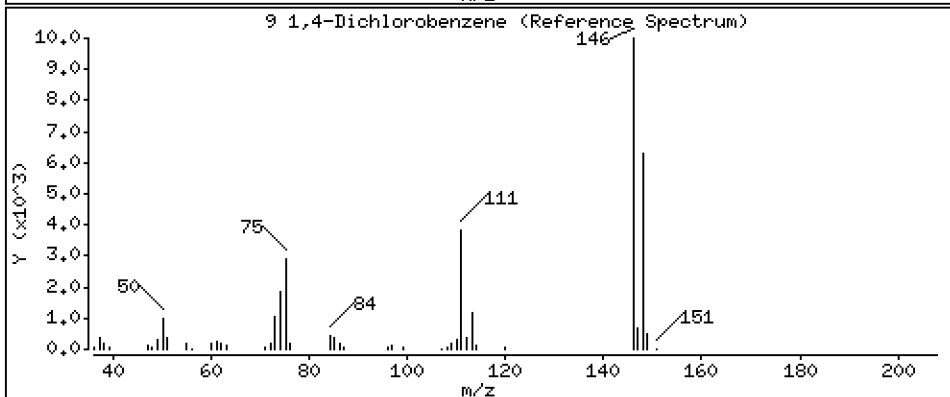
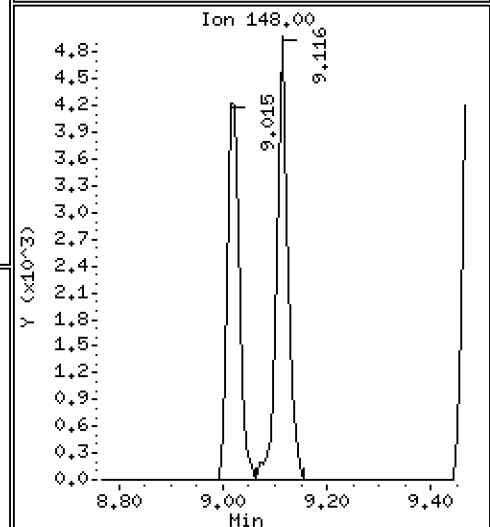
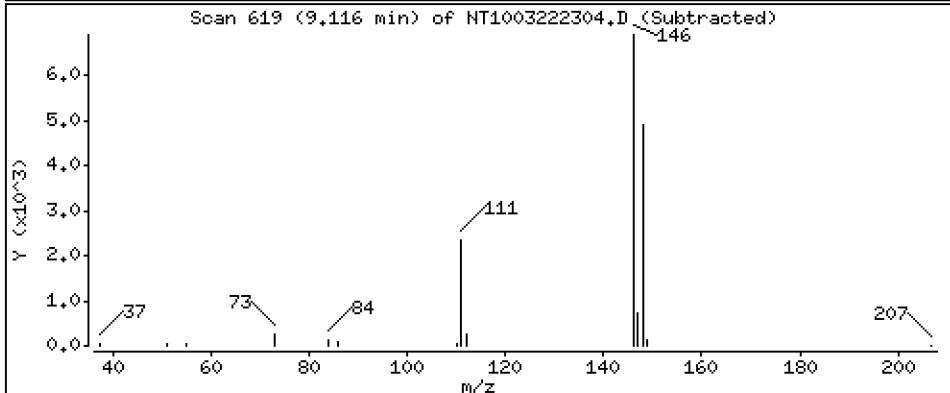
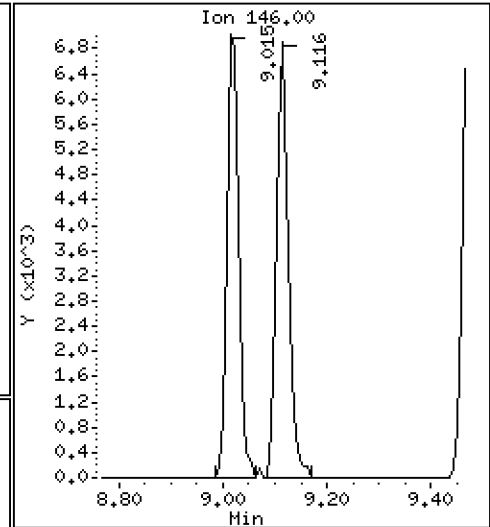
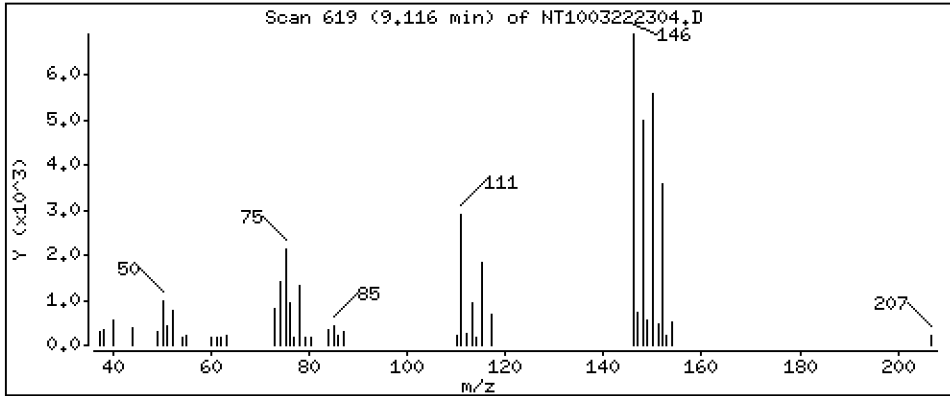
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

9 1,4-Dichlorobenzene

Concentration: 0.2121 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

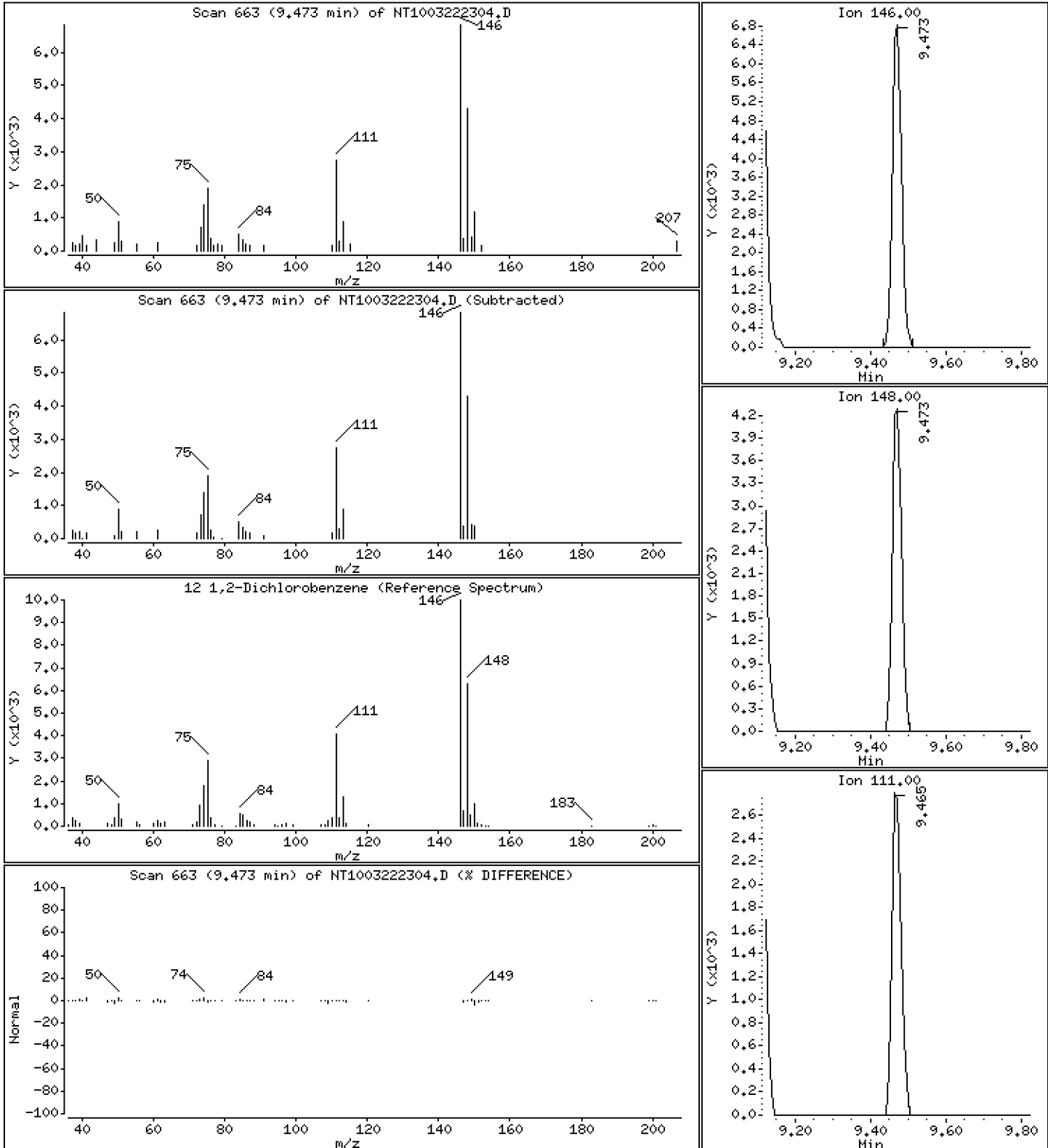
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

12 1,2-Dichlorobenzene

Concentration: 0,2148 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

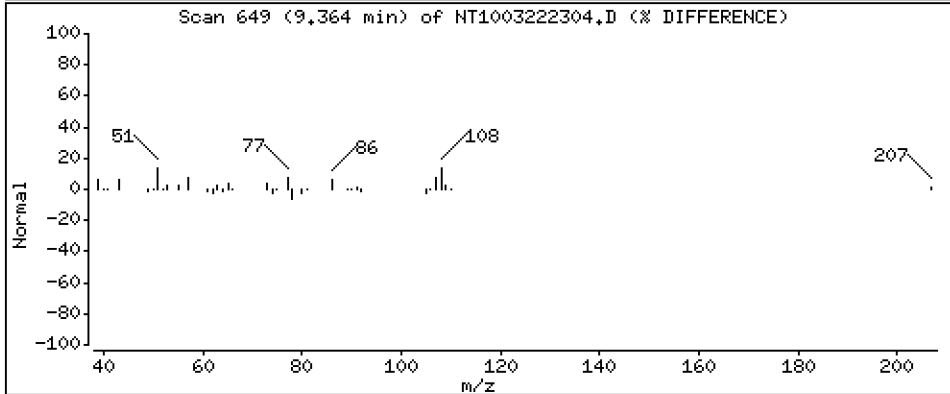
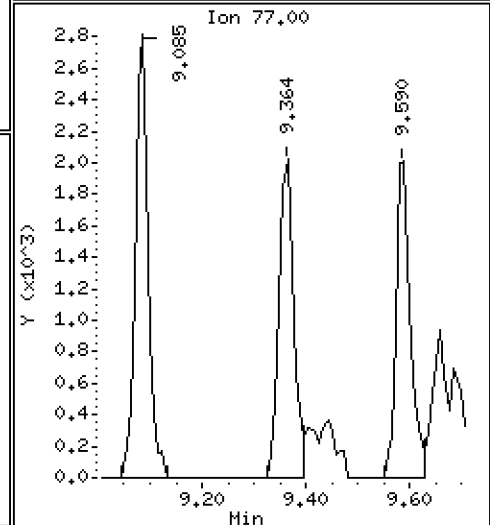
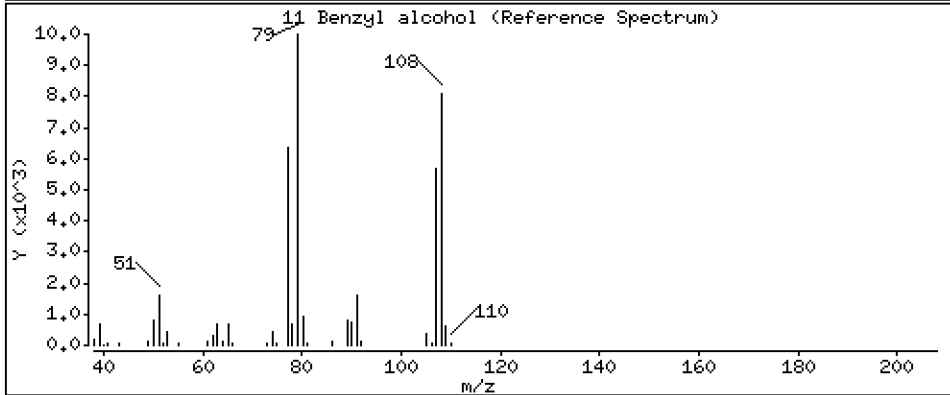
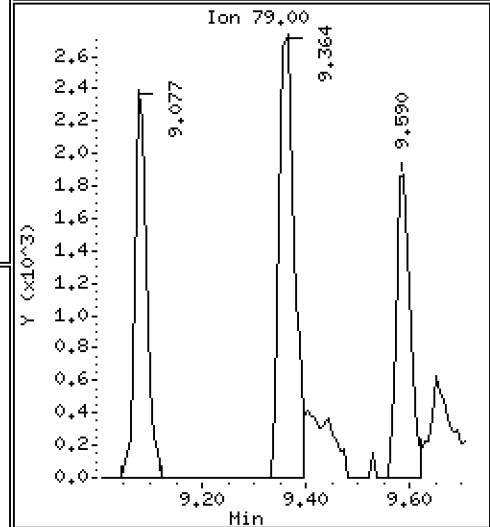
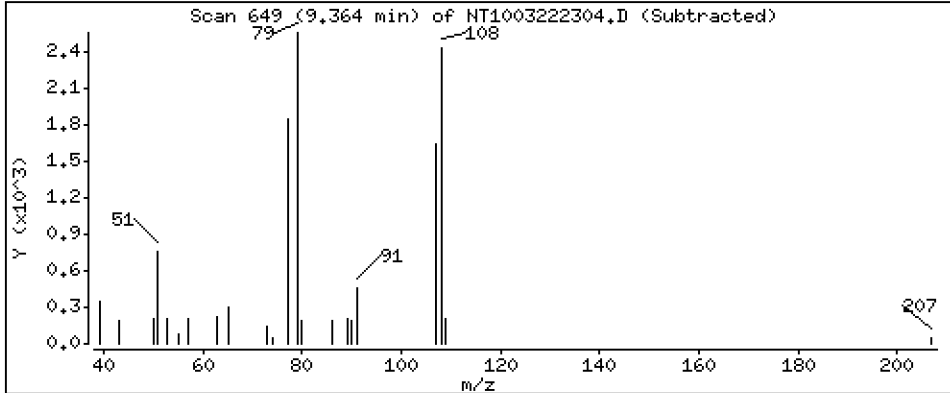
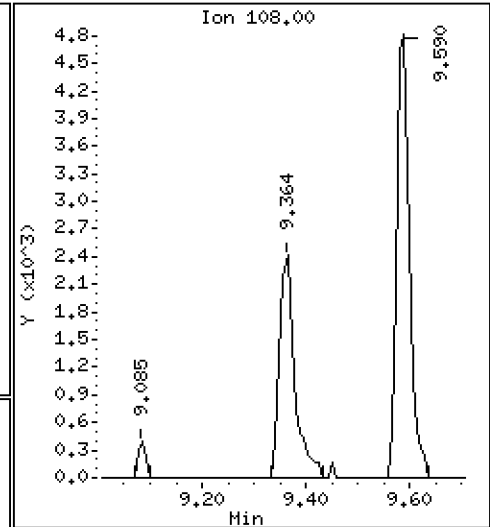
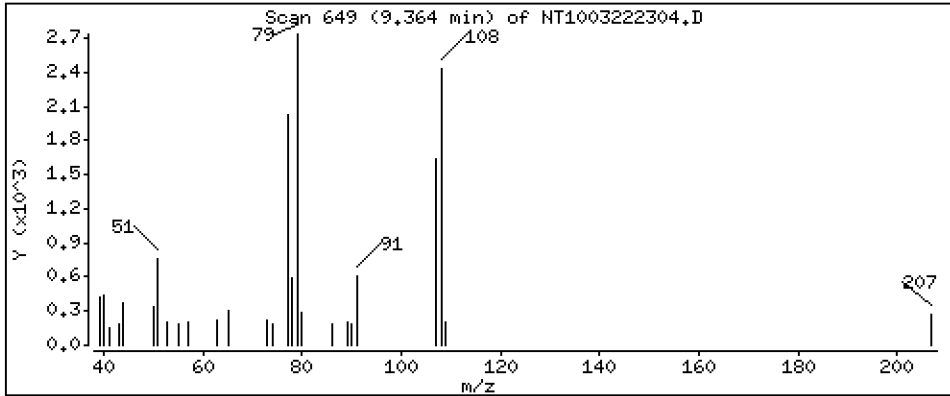
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 0.1733 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

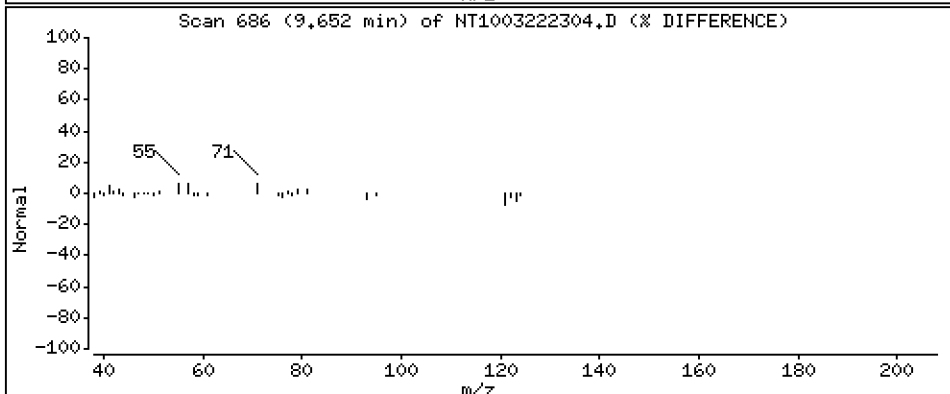
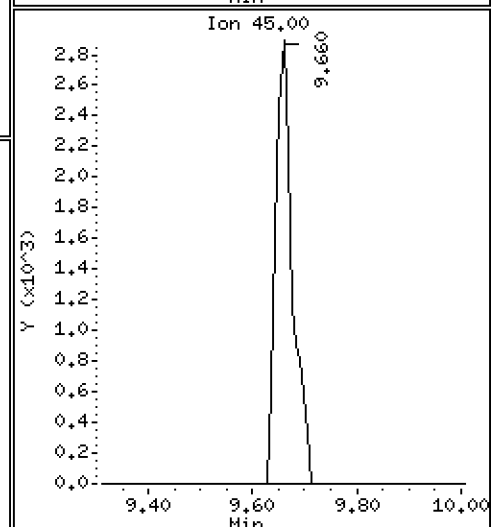
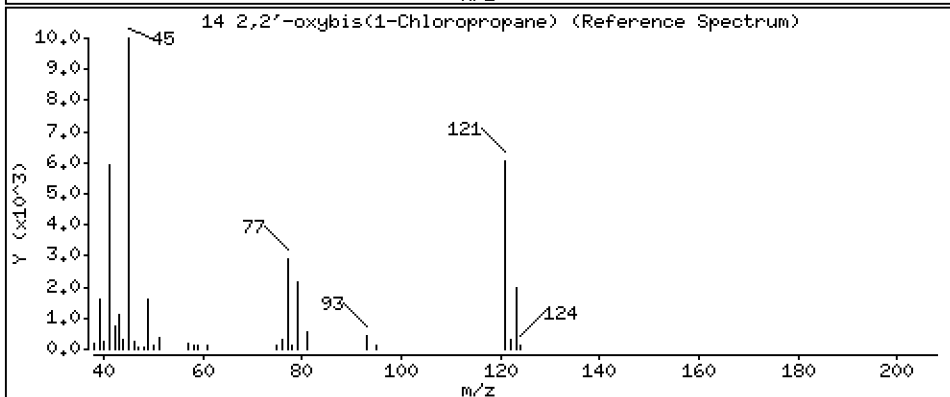
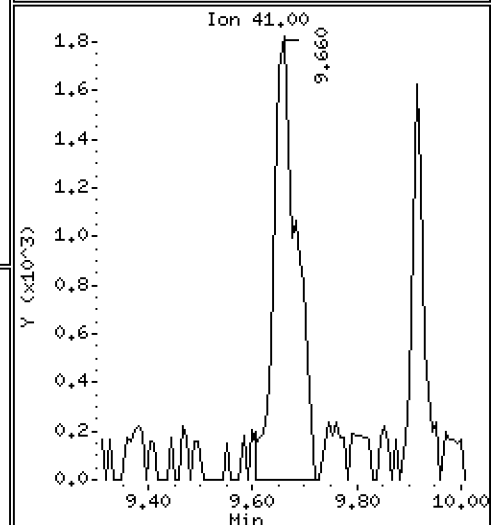
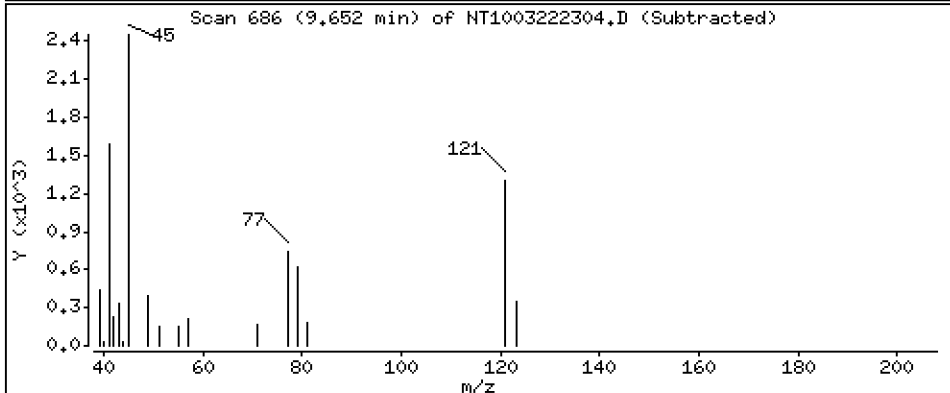
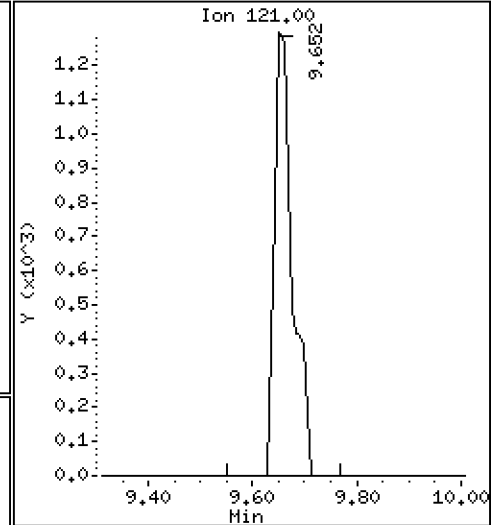
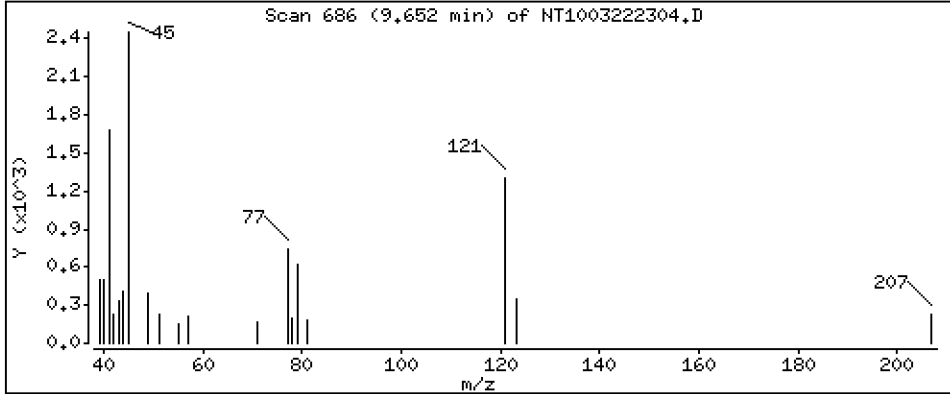
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 0,2039 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

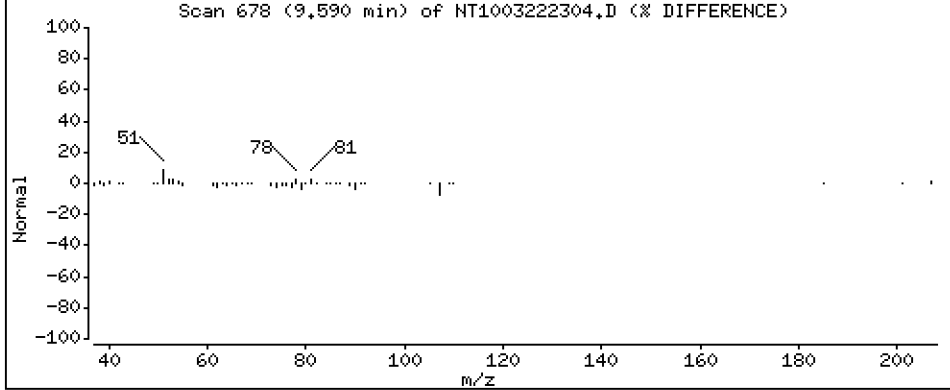
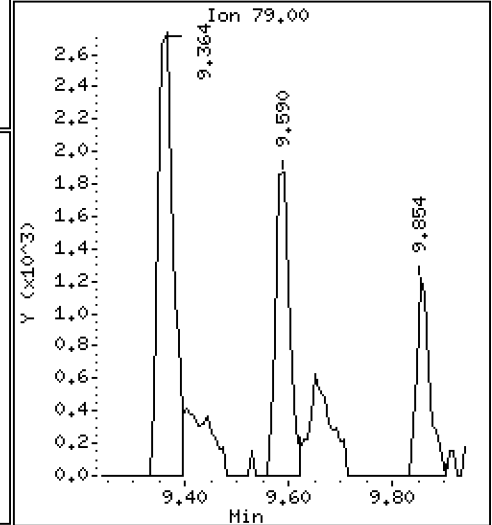
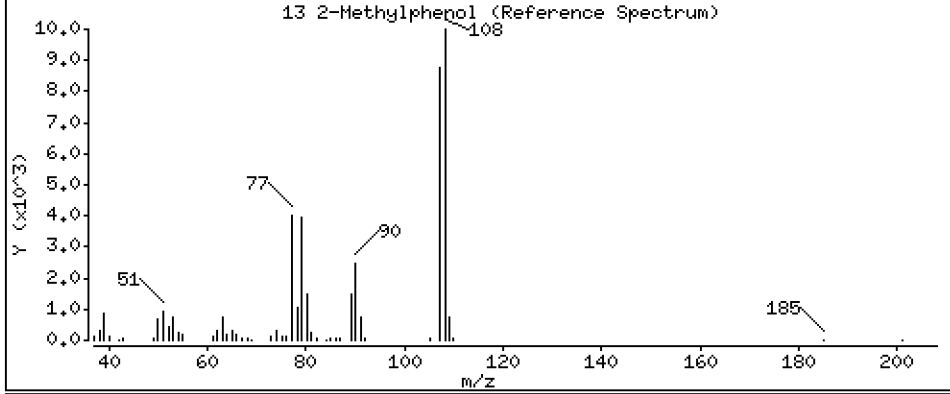
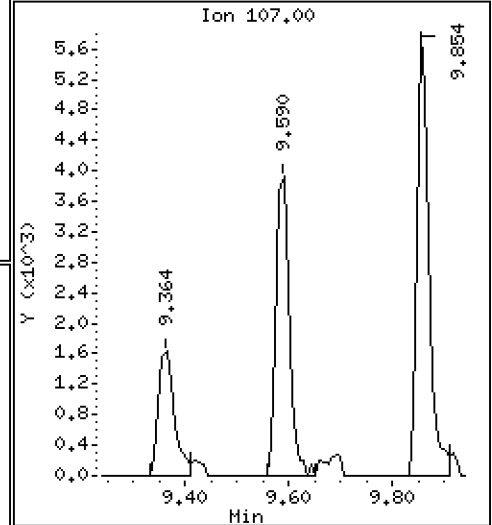
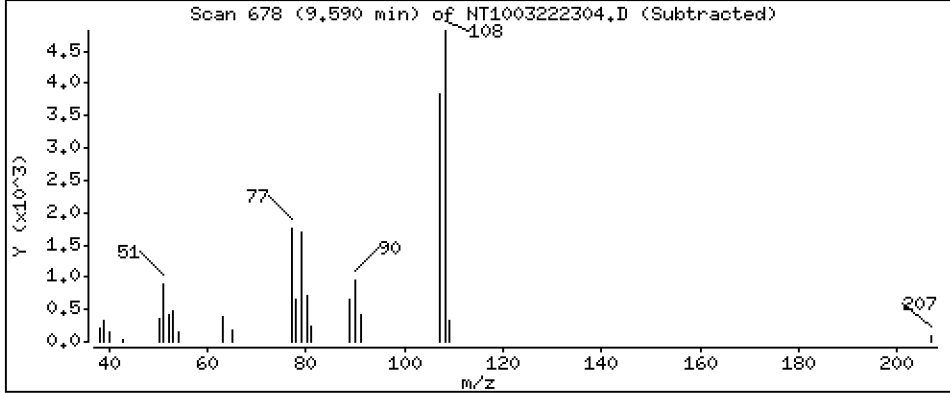
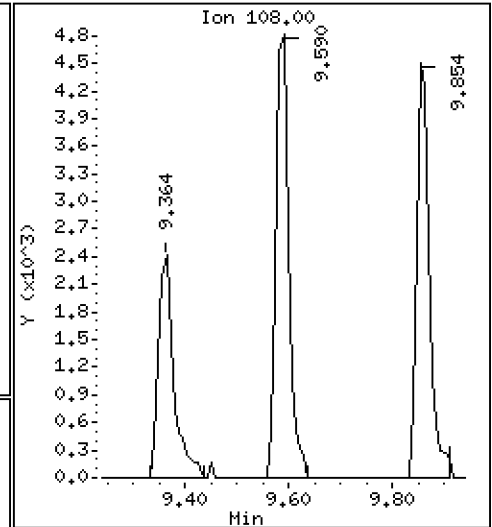
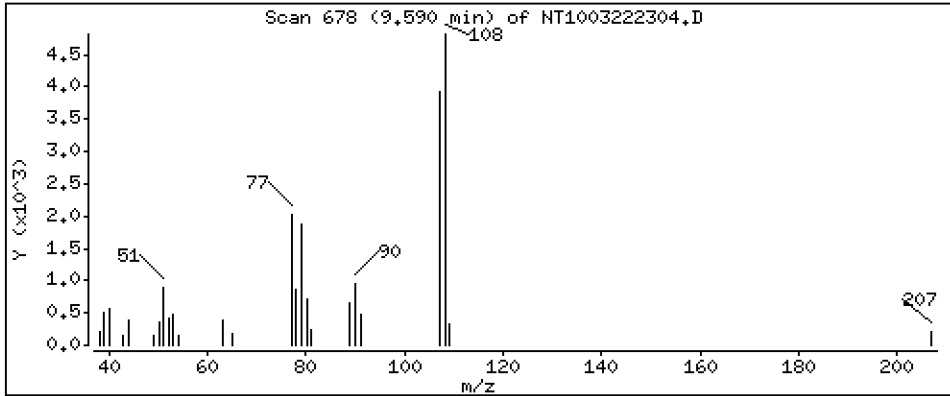
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

13 2-Methylphenol

Concentration: 0,1827 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

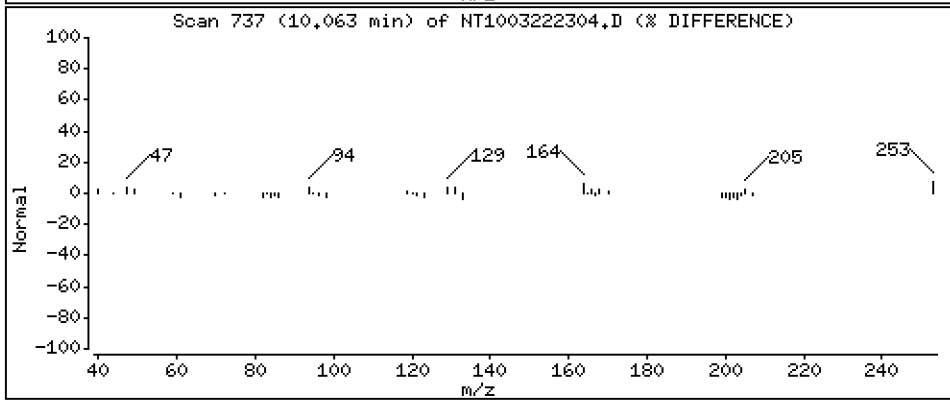
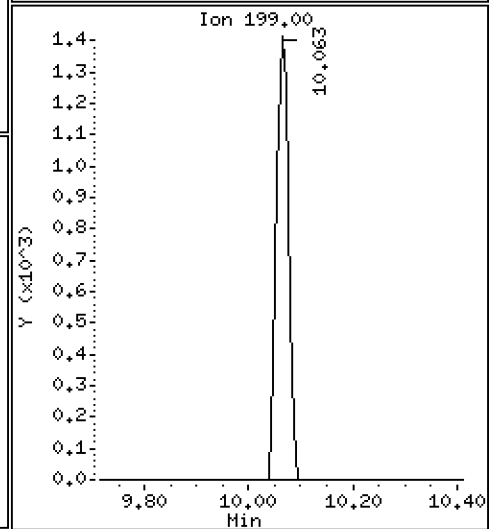
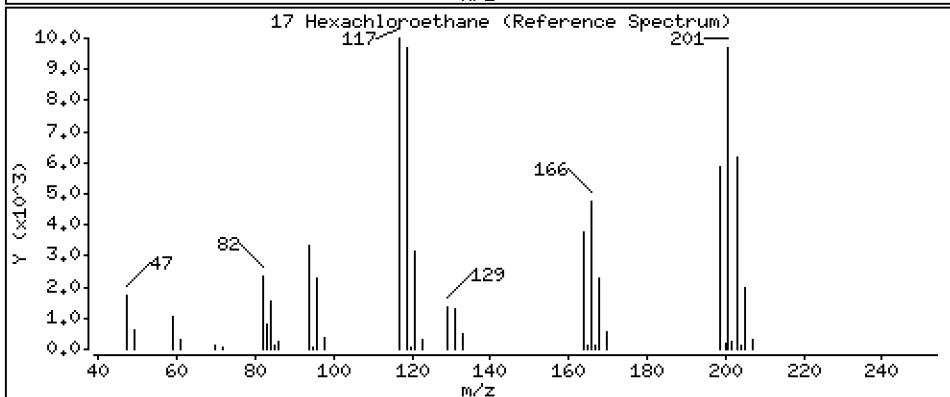
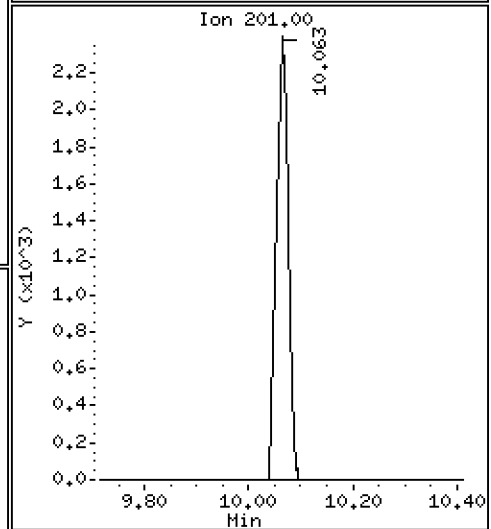
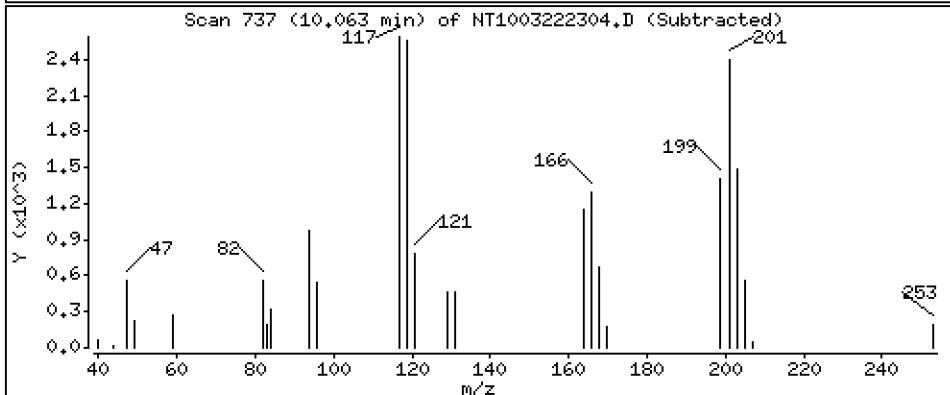
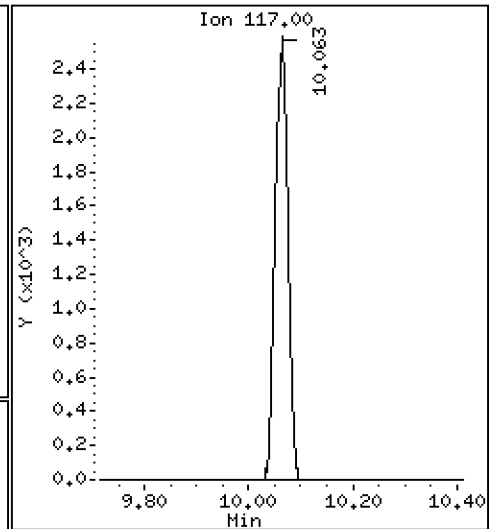
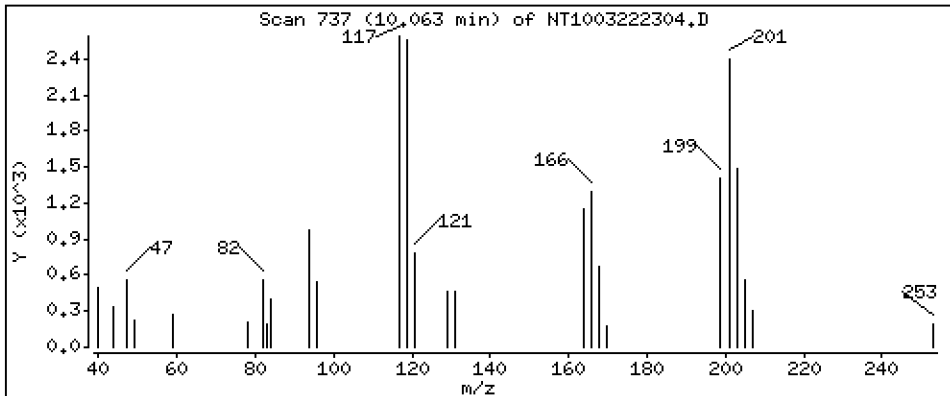
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

17 Hexachloroethane

Concentration: 0,1954 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

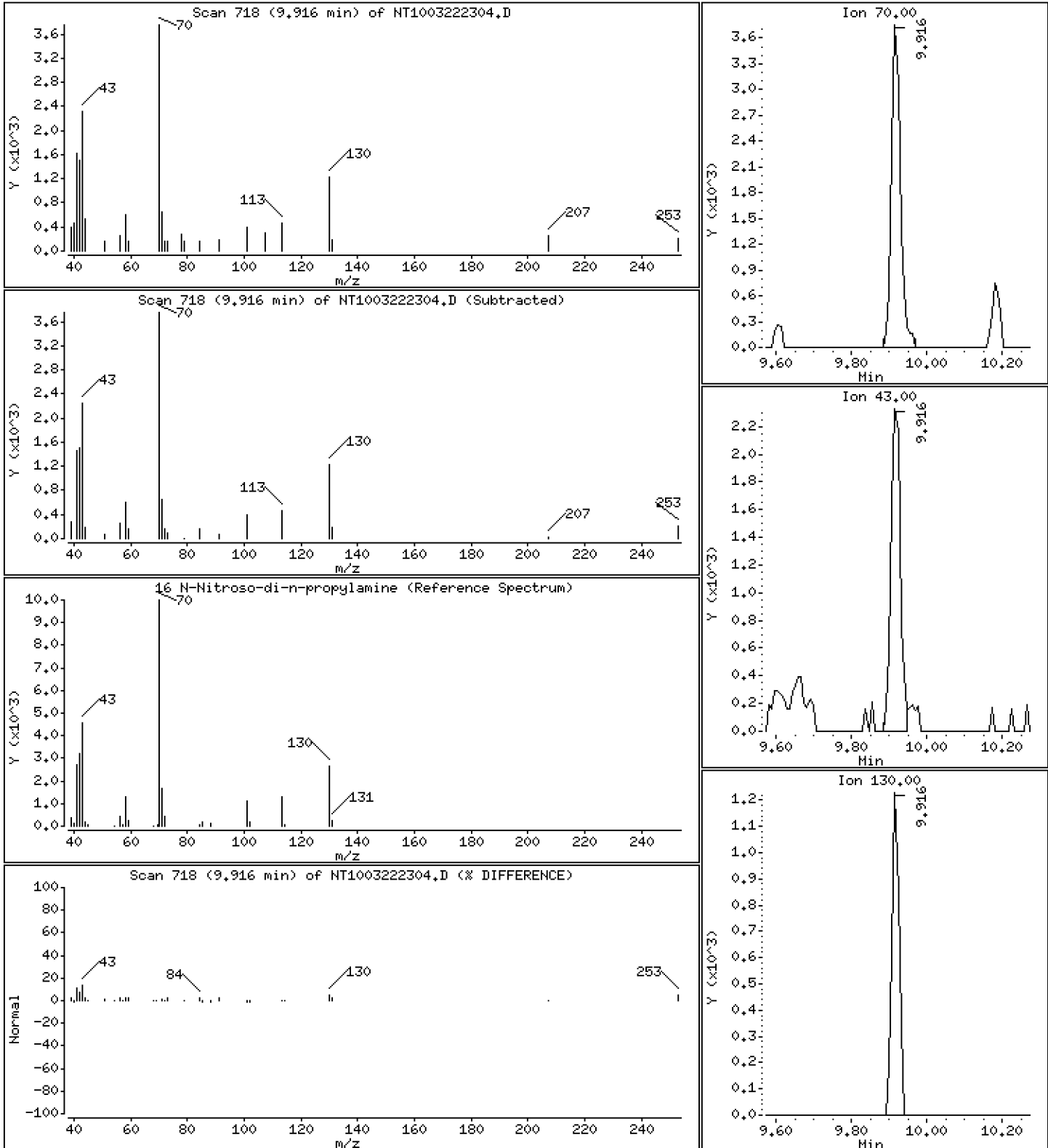
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

16 N-Nitroso-di-n-propylamine

Concentration: 0,1733 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

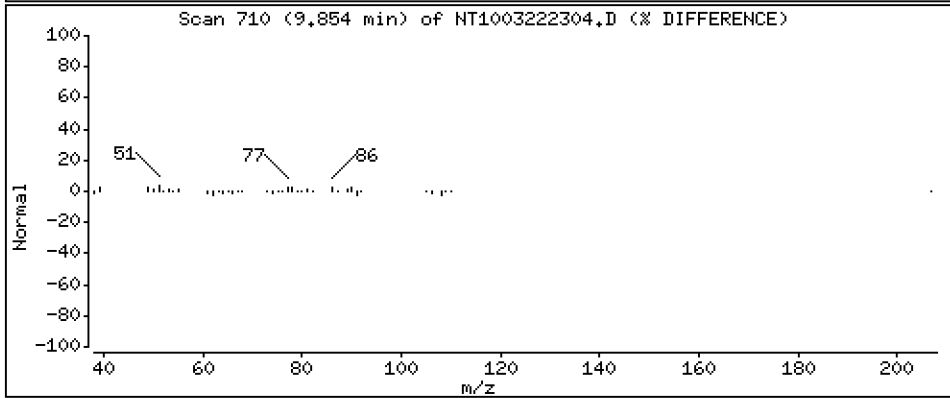
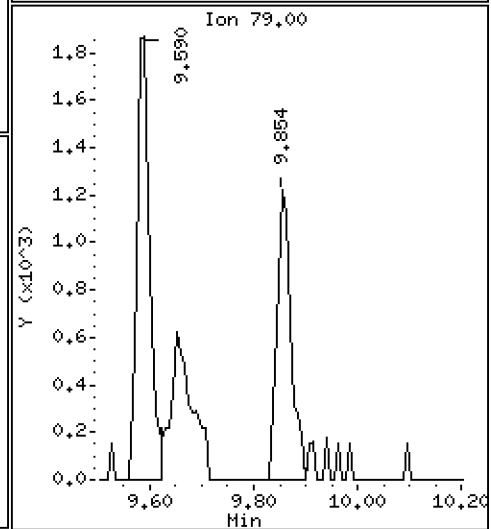
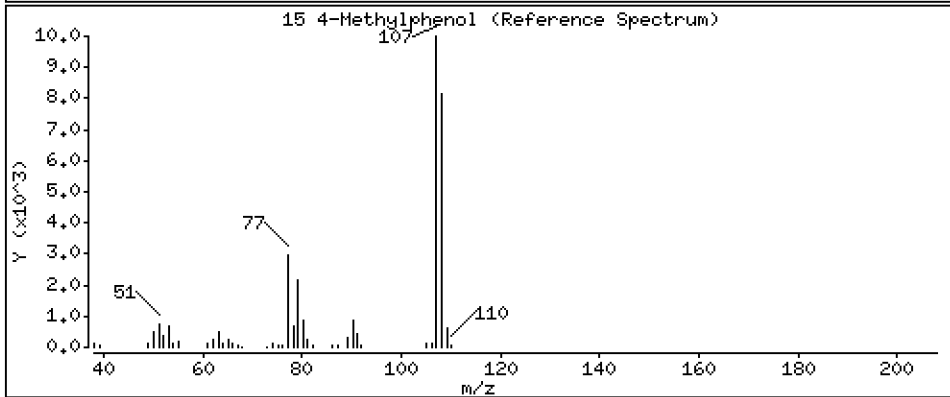
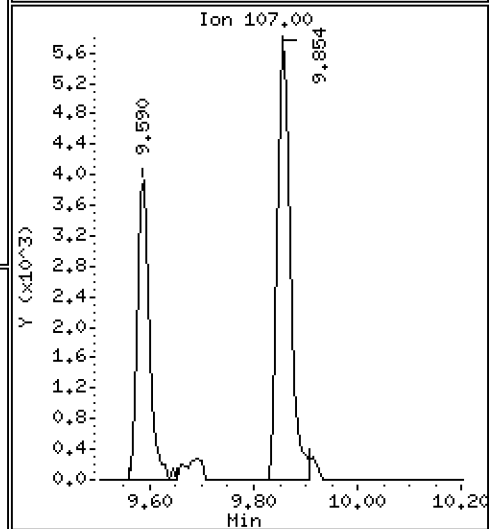
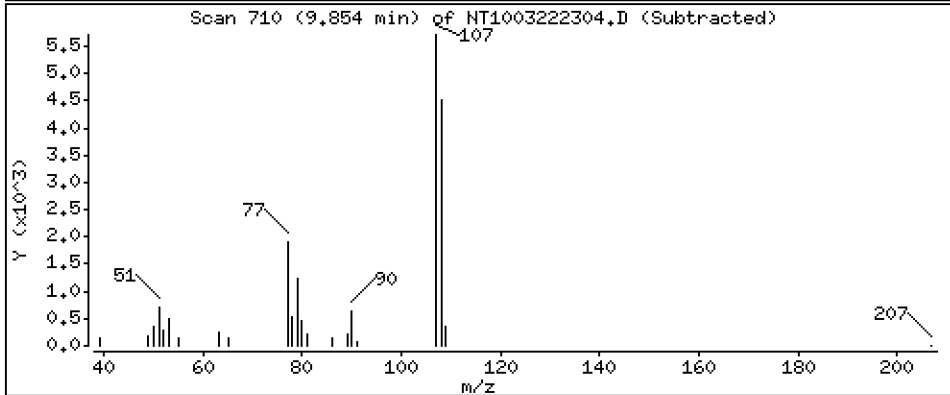
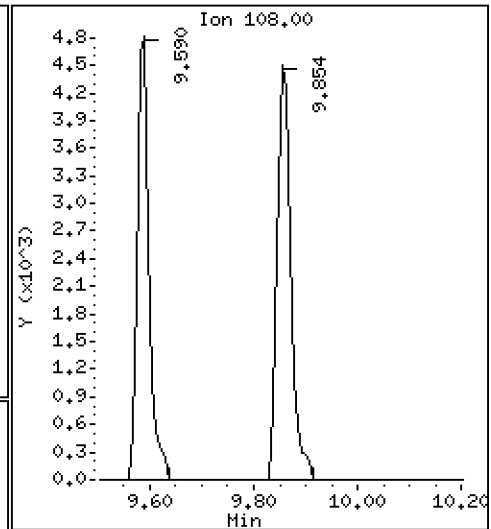
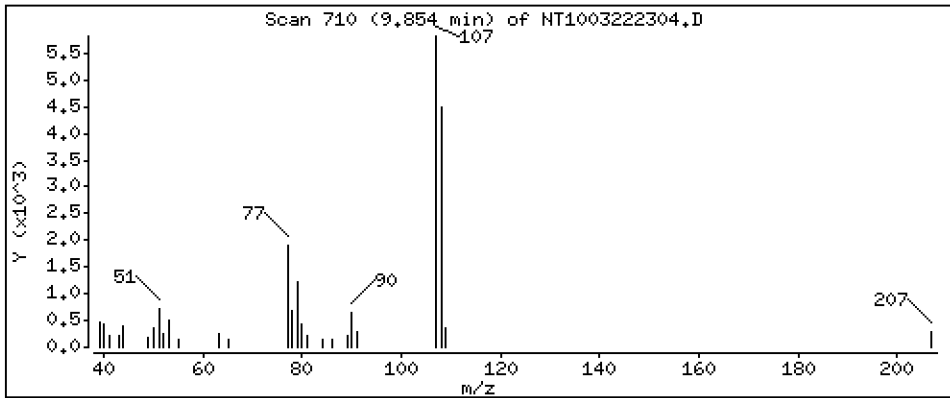
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 0.1770 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

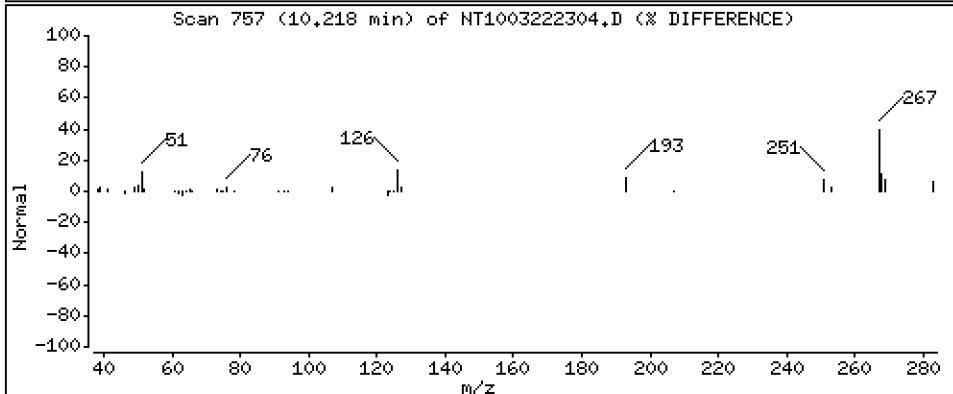
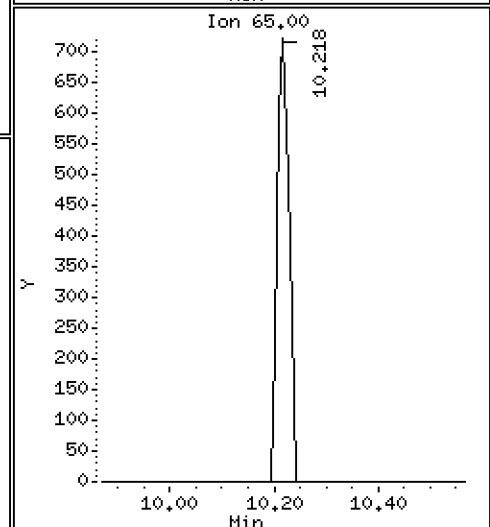
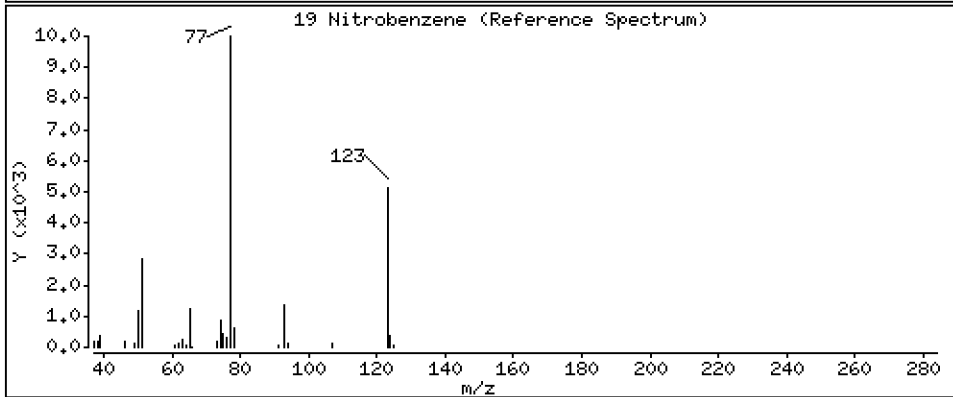
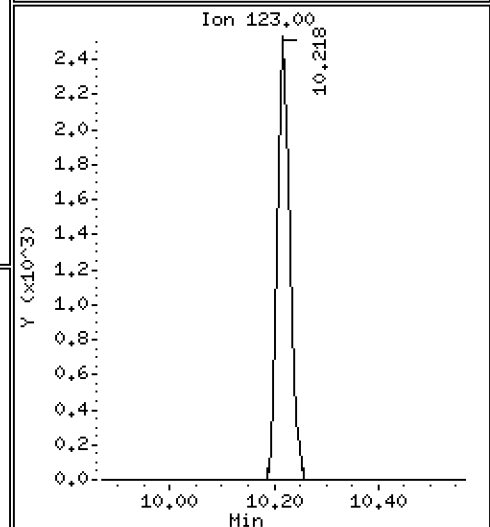
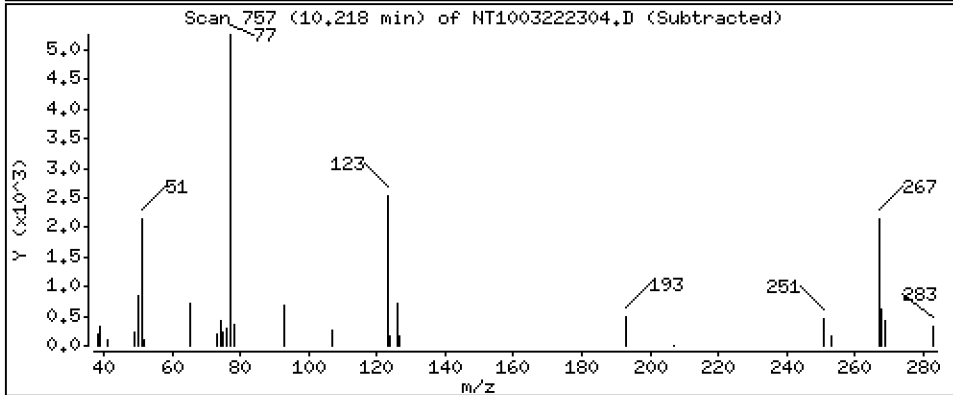
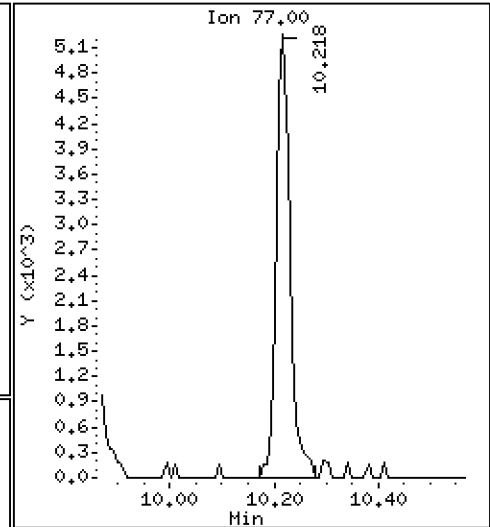
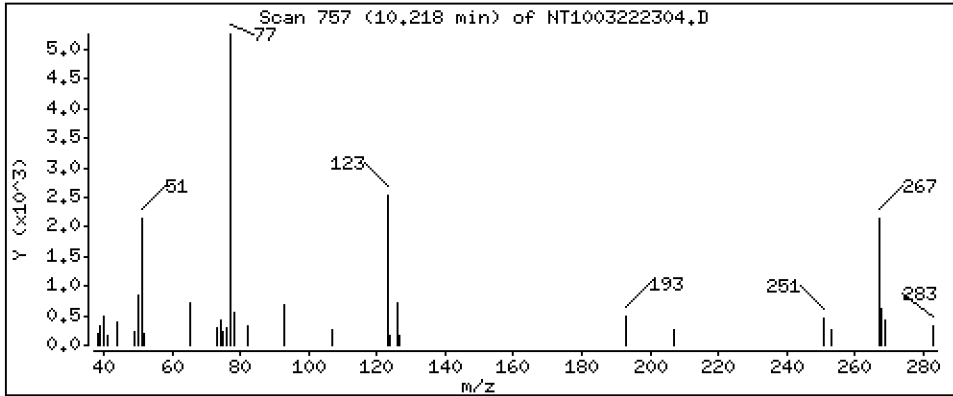
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

19 Nitrobenzene

Concentration: 0,1853 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

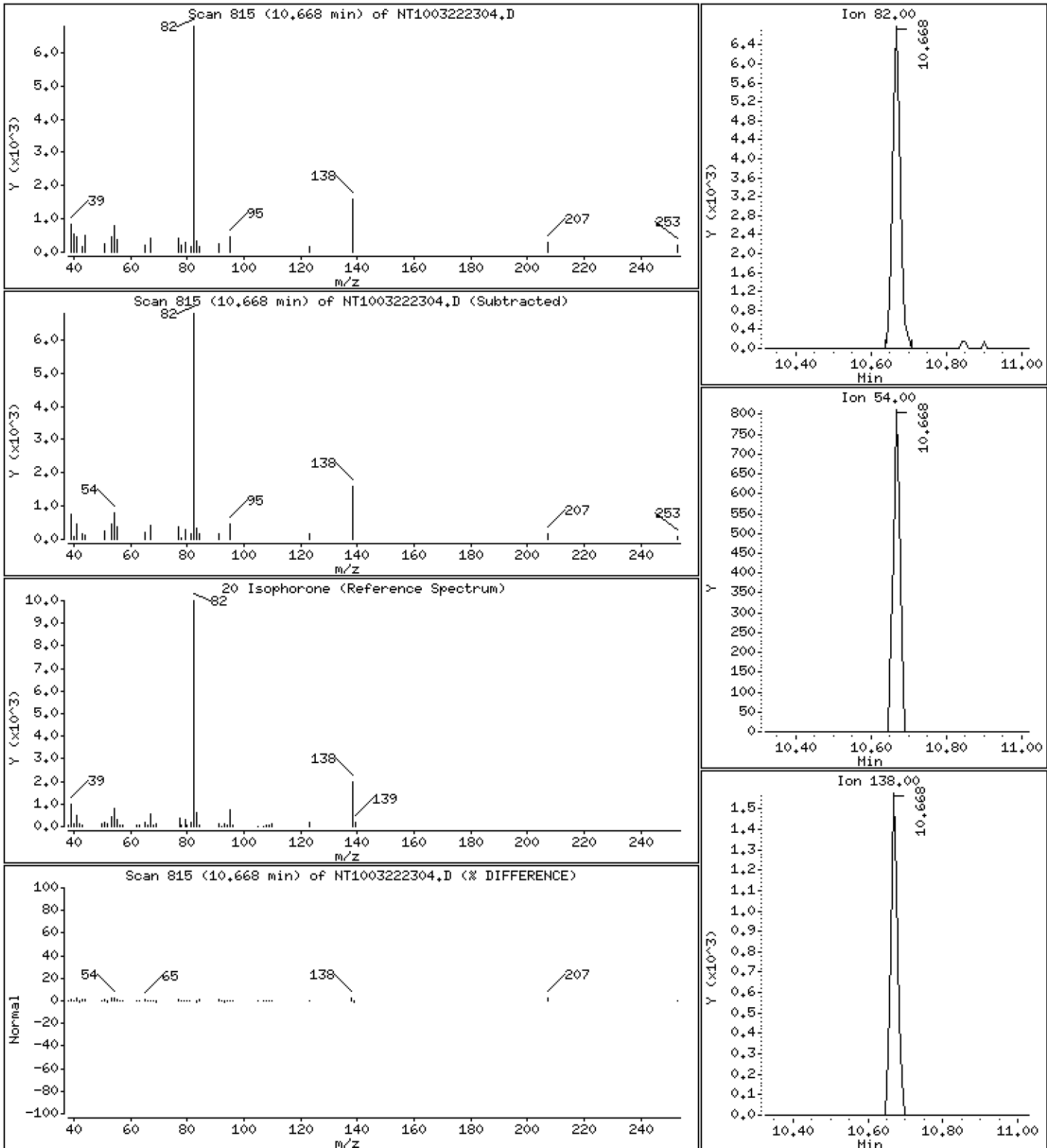
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

20 Isophorone

Concentration: 0.1565 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

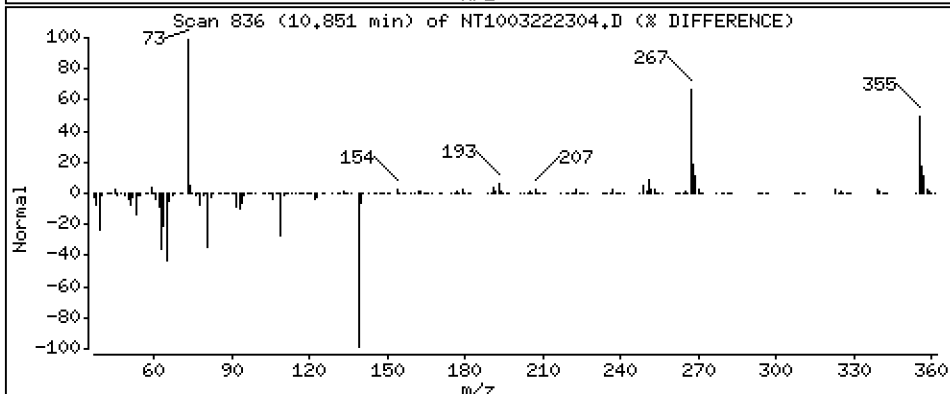
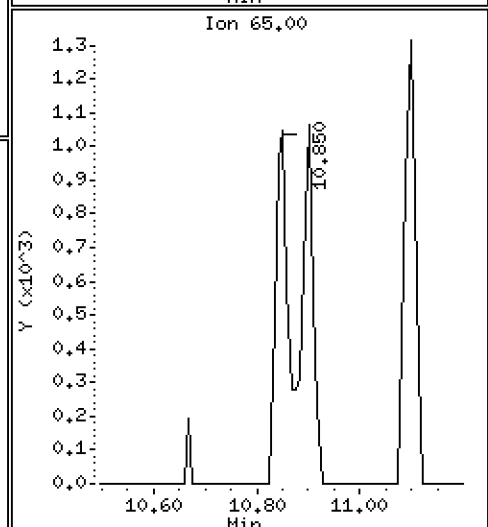
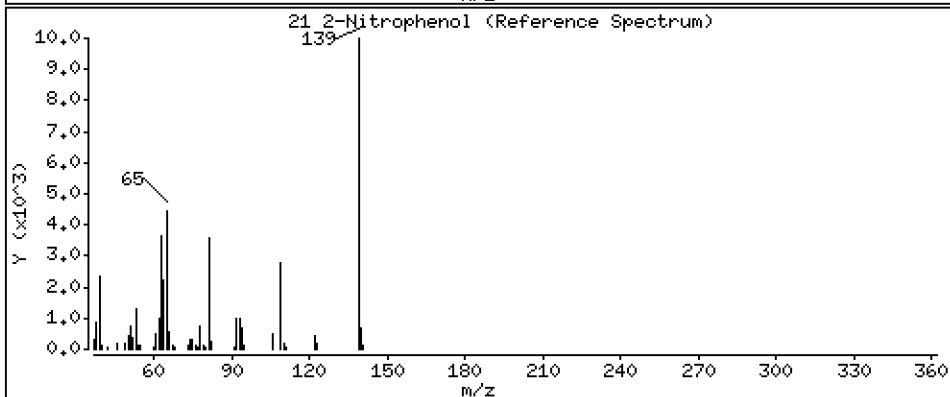
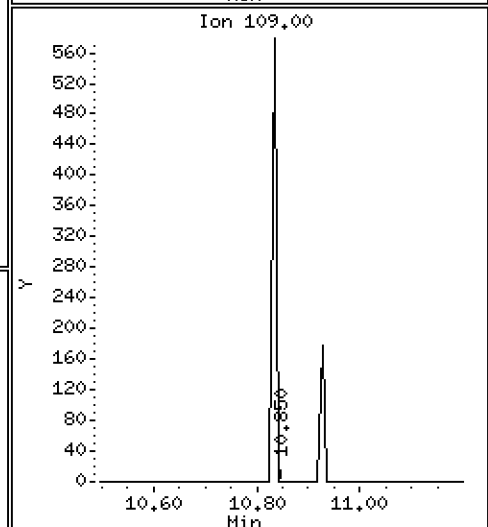
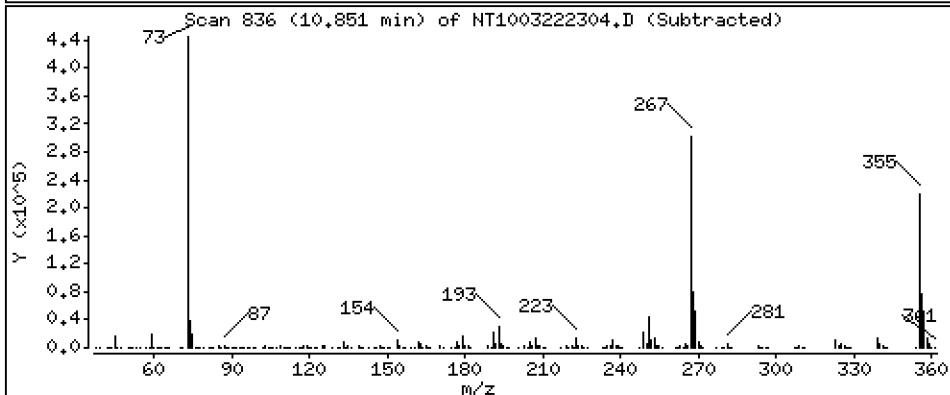
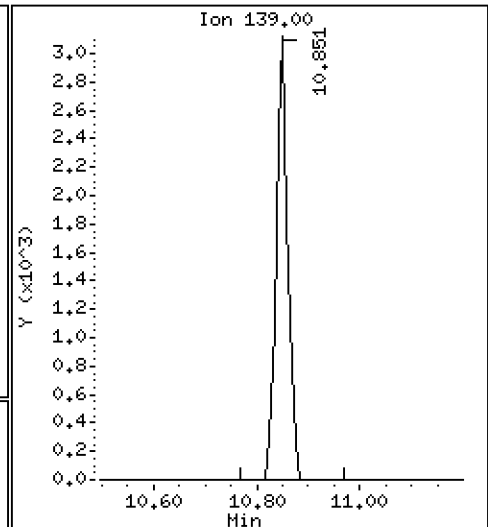
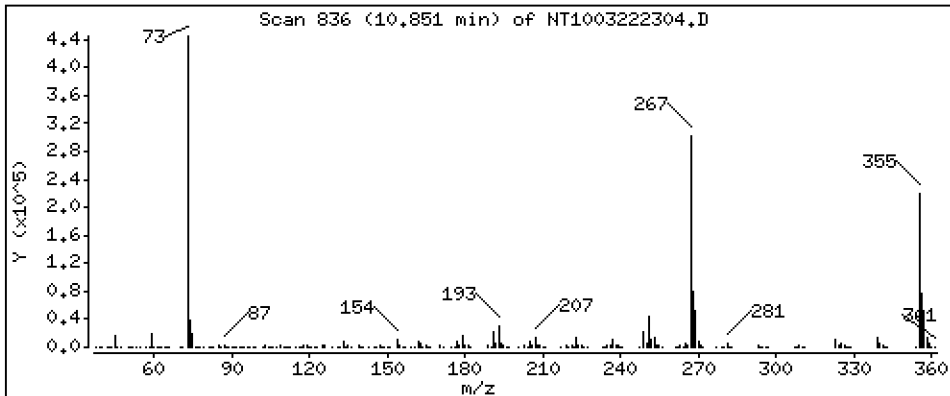
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

21 2-Nitrophenol

Concentration: 0,2201 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

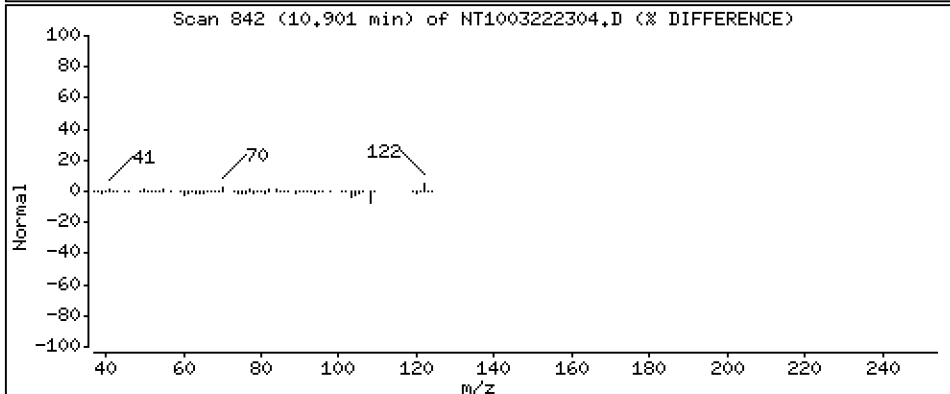
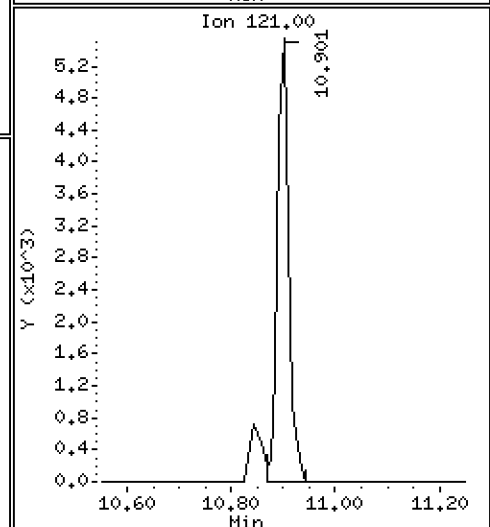
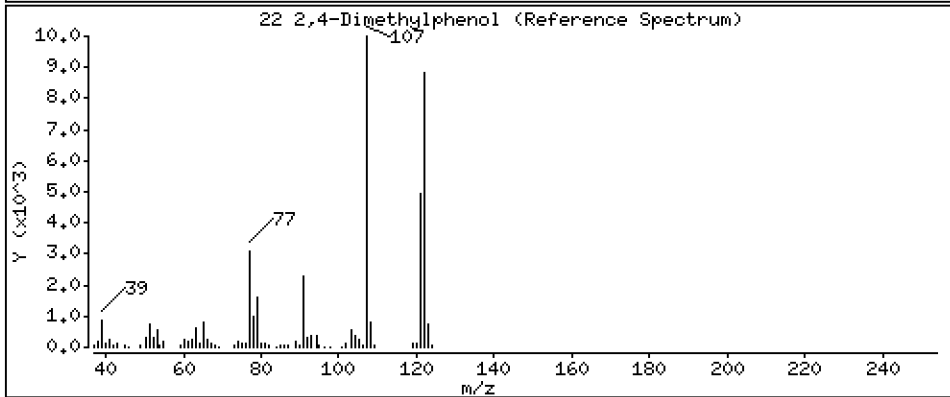
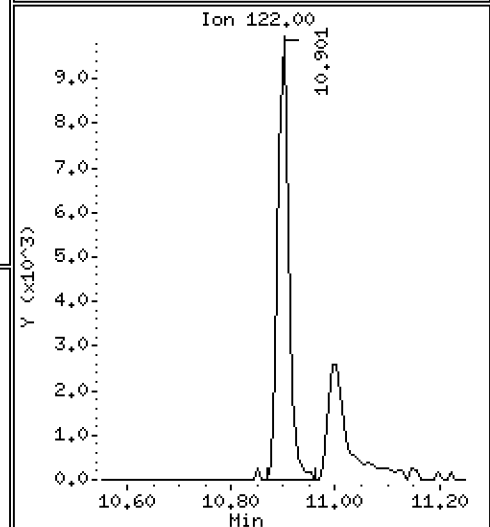
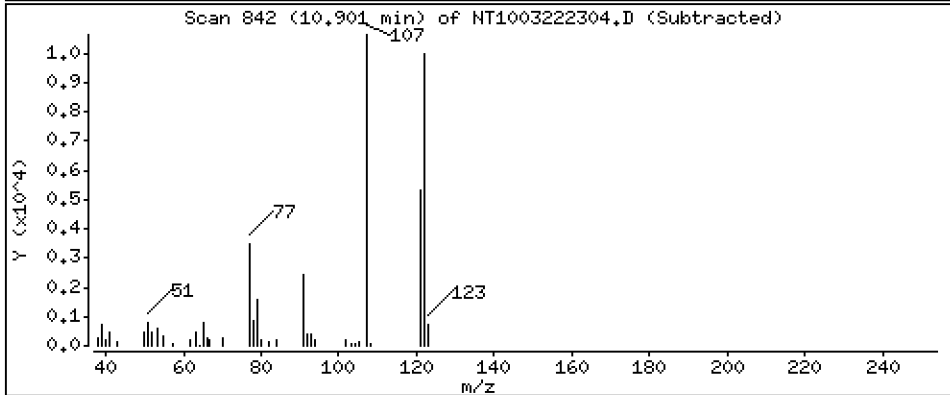
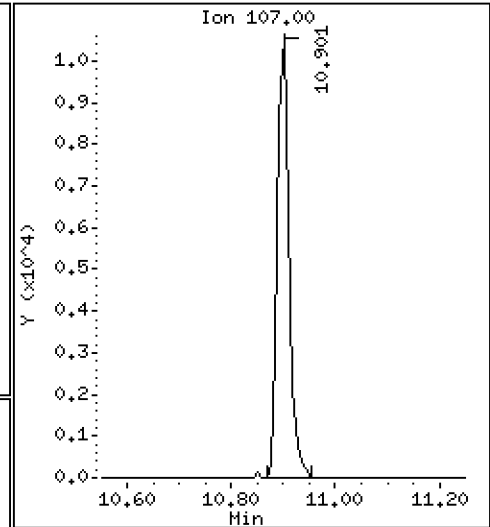
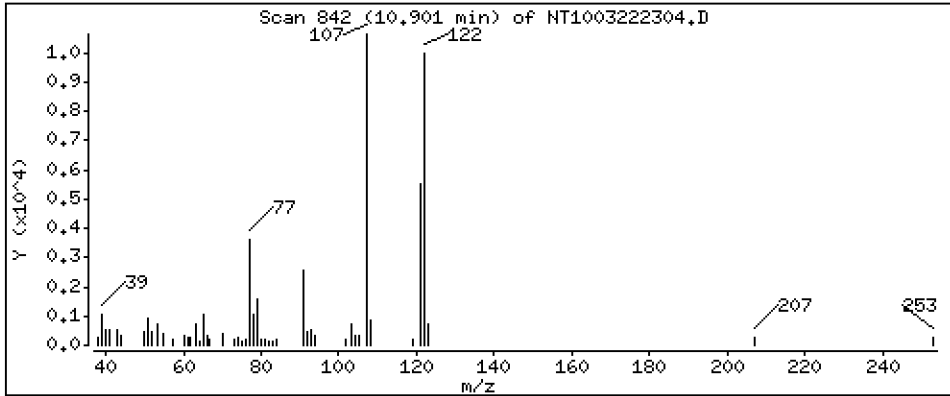
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 0,3595 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

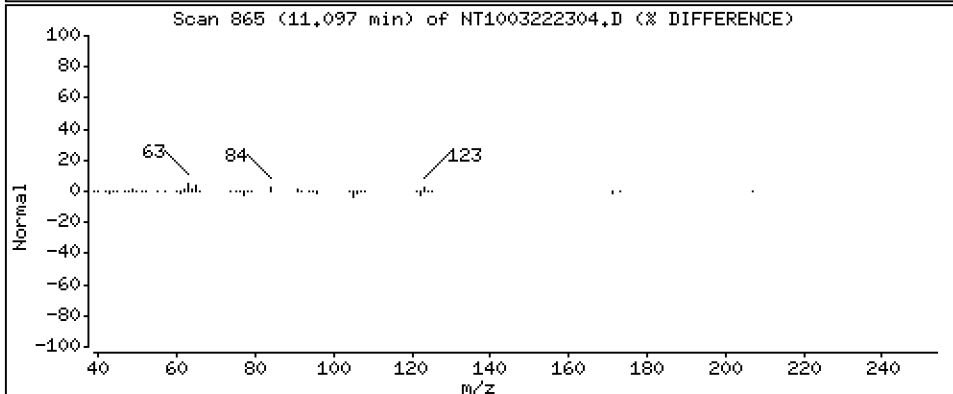
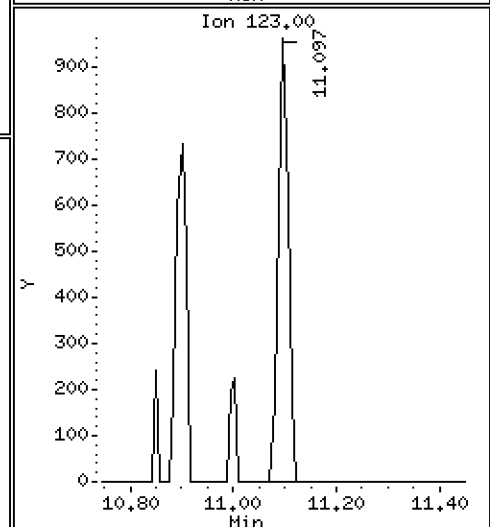
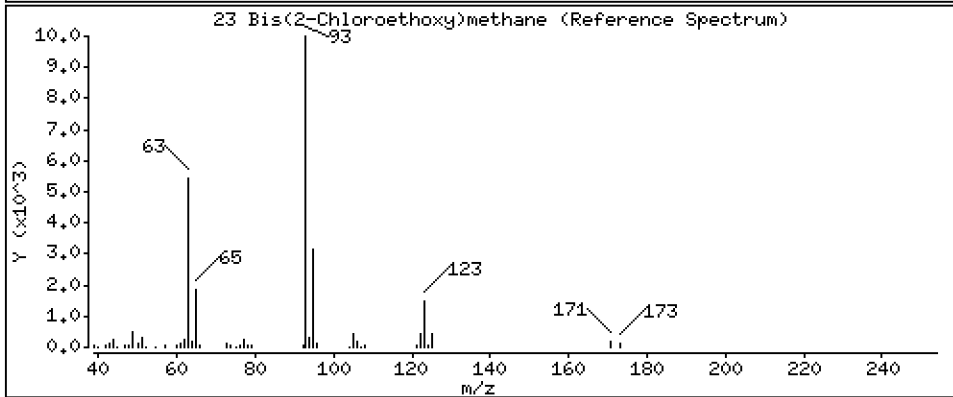
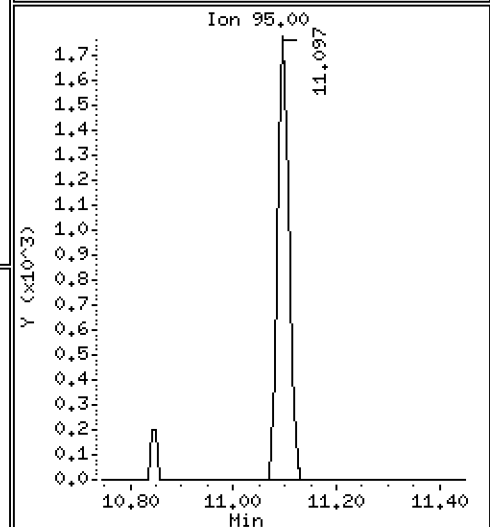
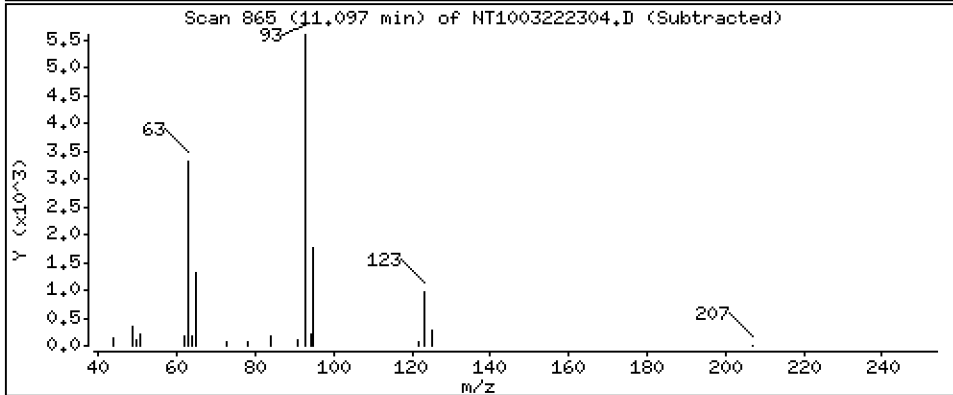
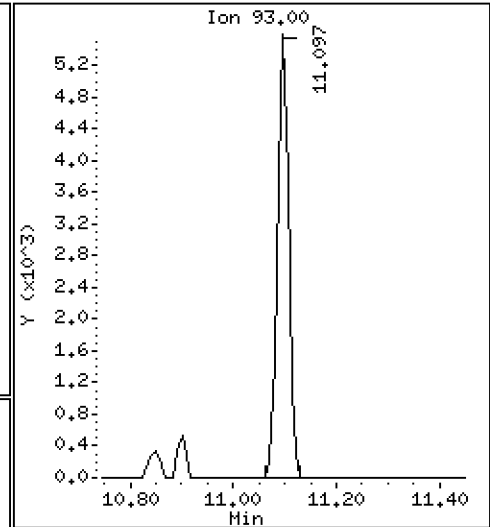
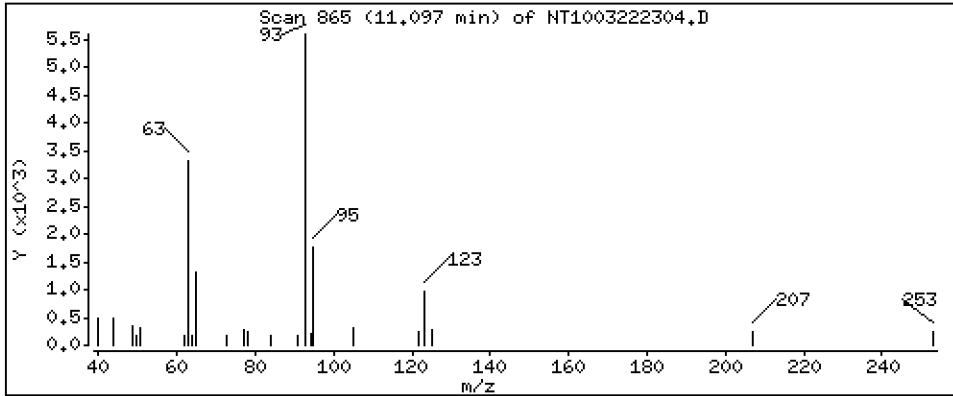
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

23 Bis(2-Chloroethoxy)methane

Concentration: 0,1943 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

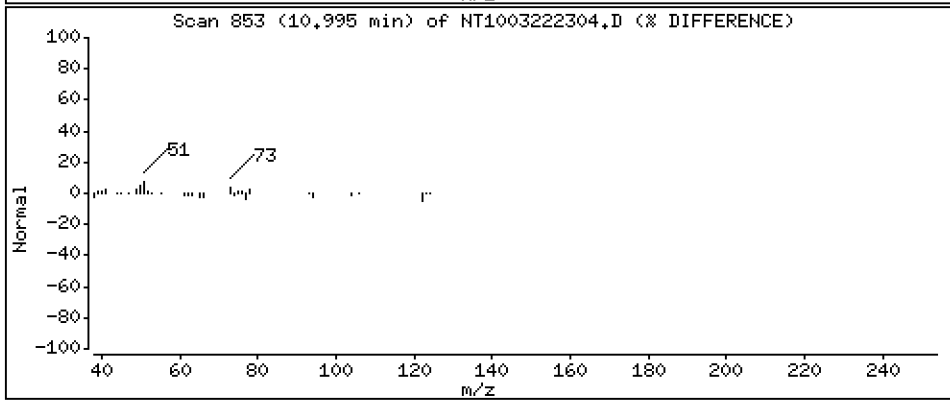
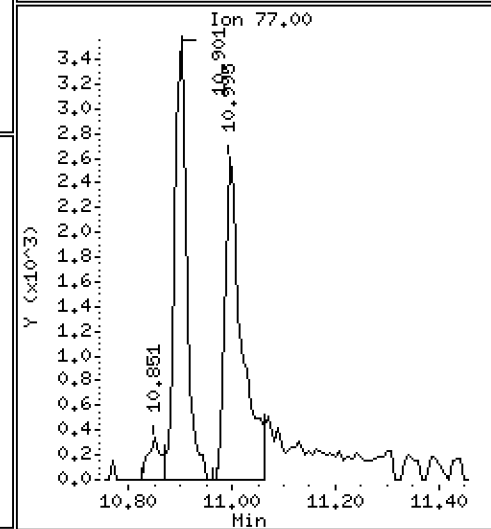
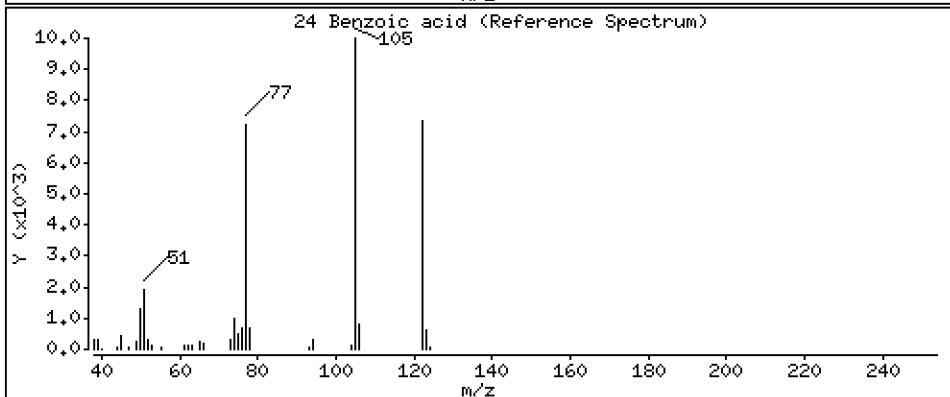
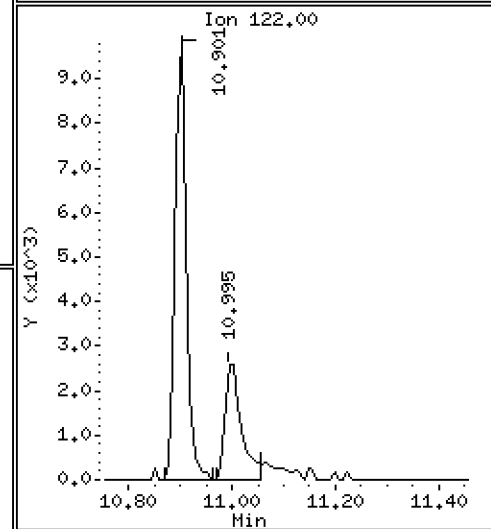
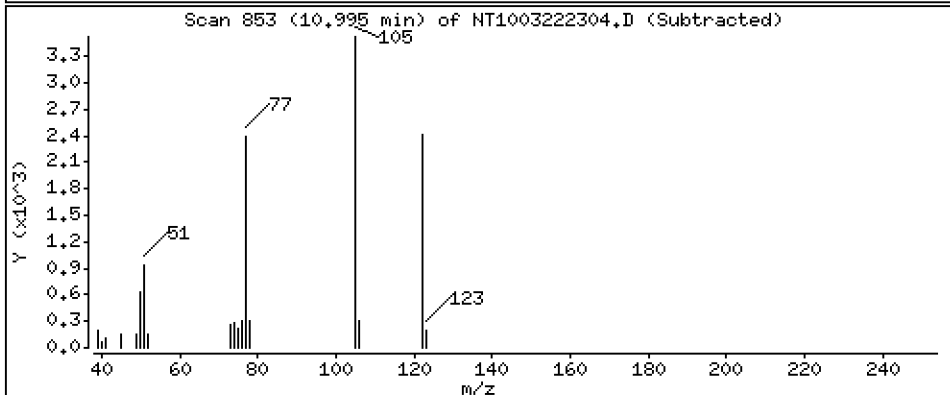
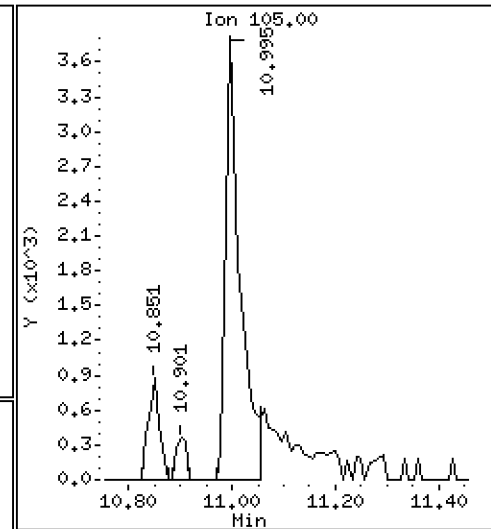
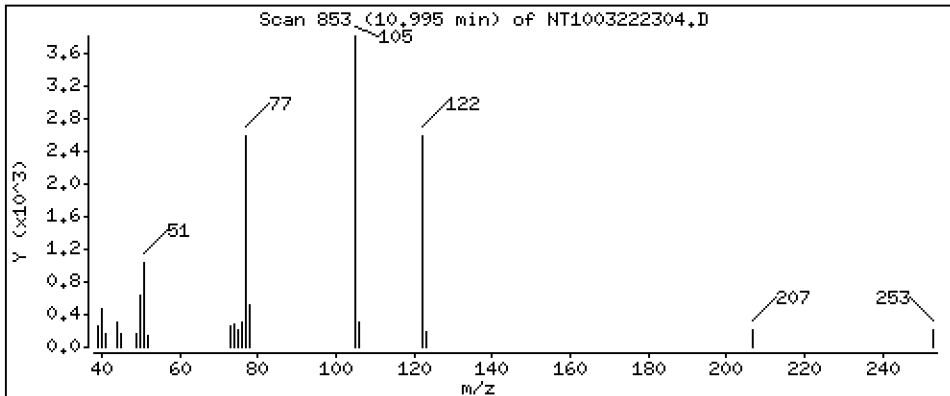
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

24 Benzoic acid

Concentration: 0,3047 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

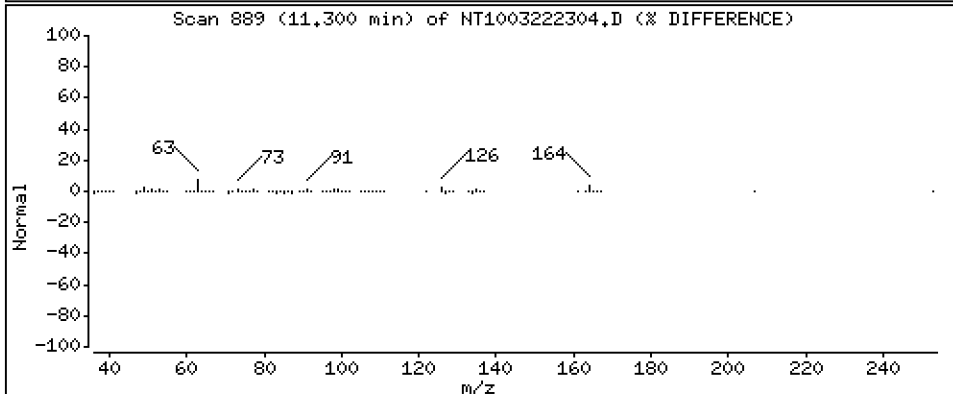
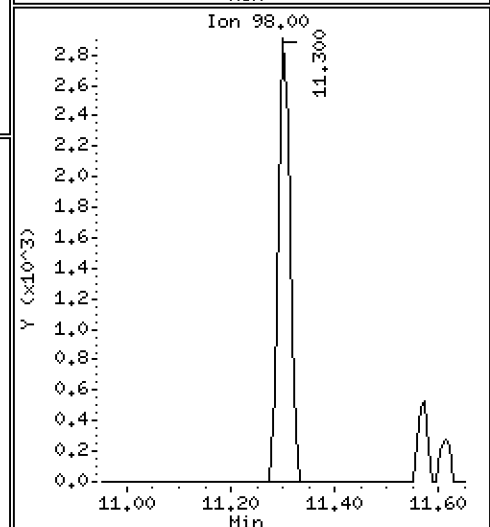
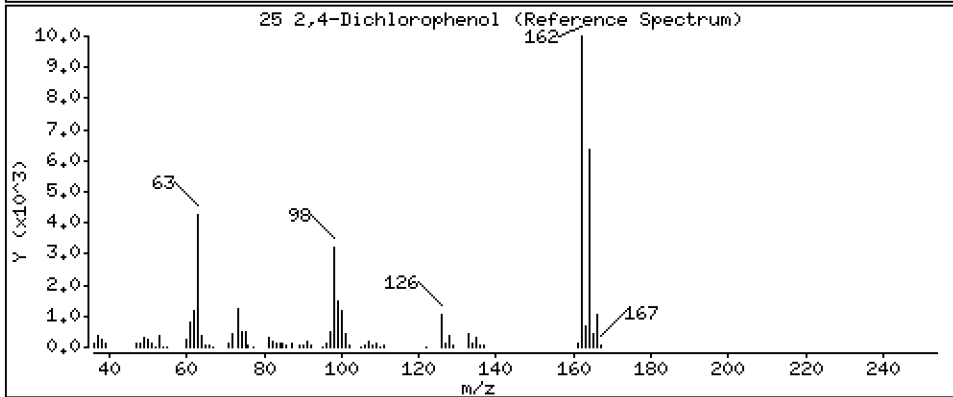
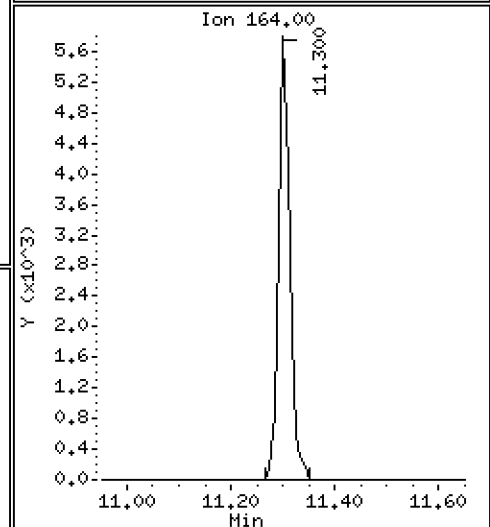
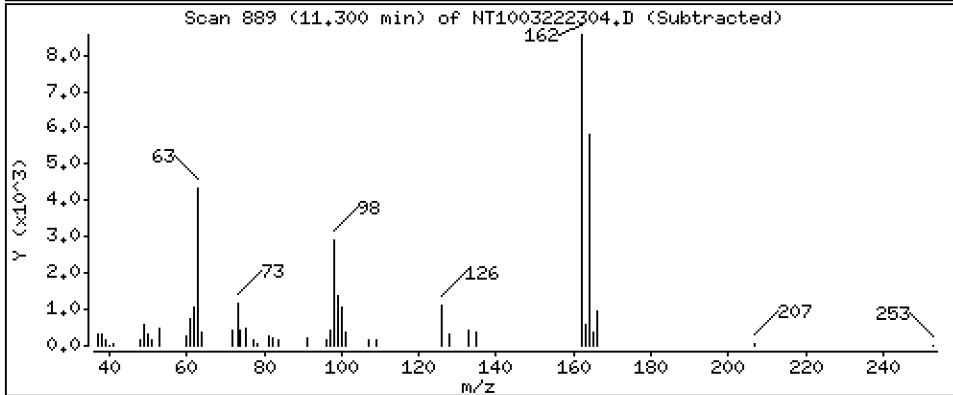
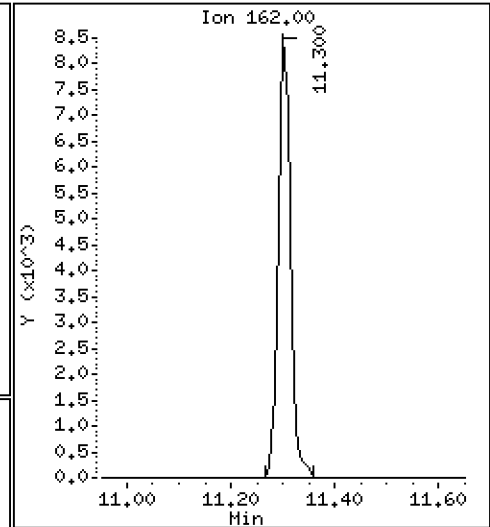
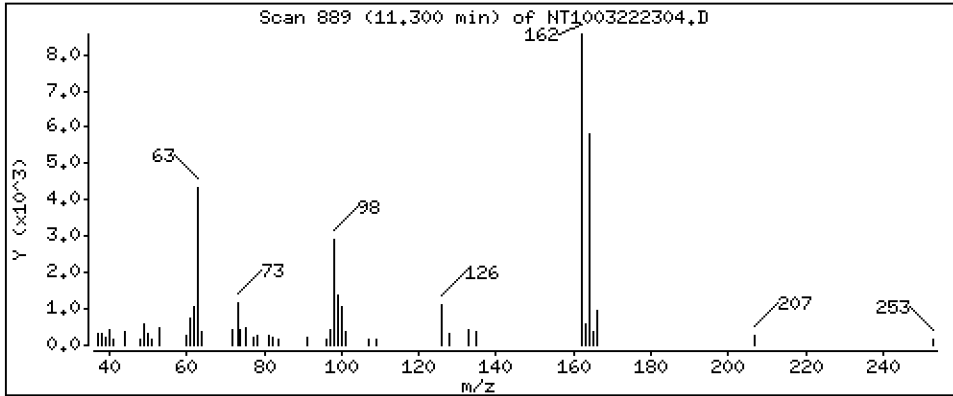
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 0,3777 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

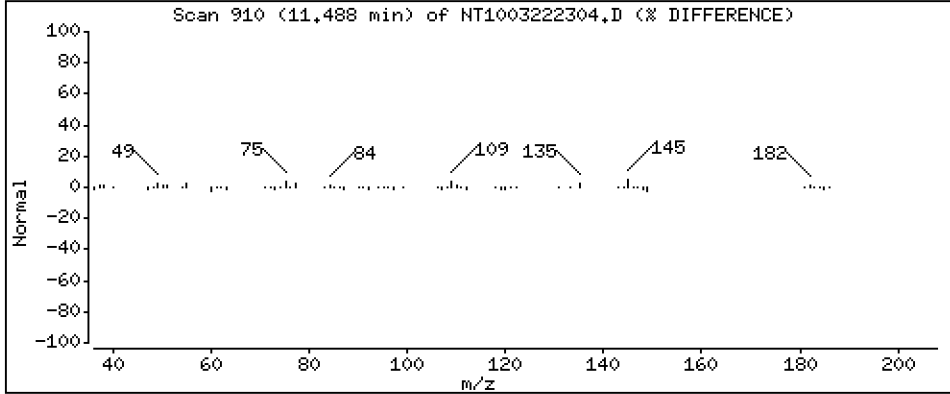
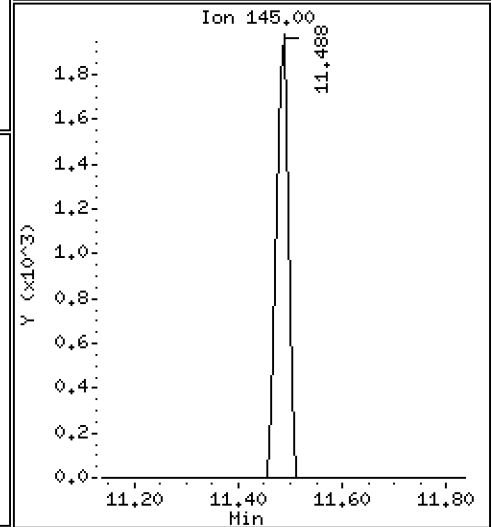
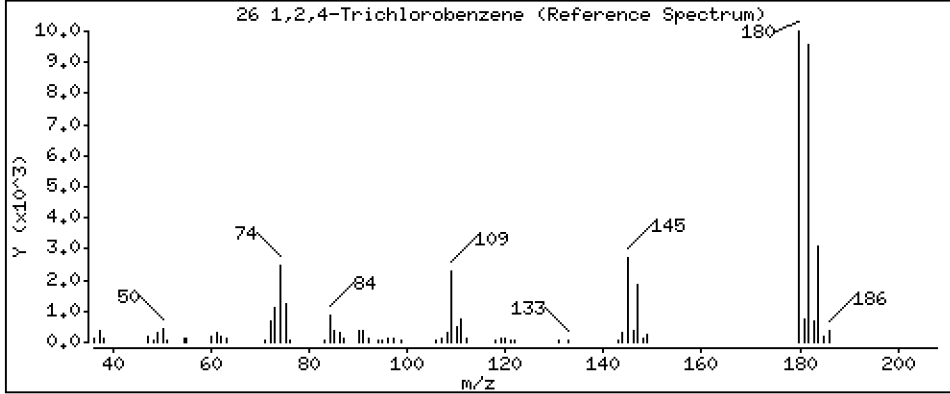
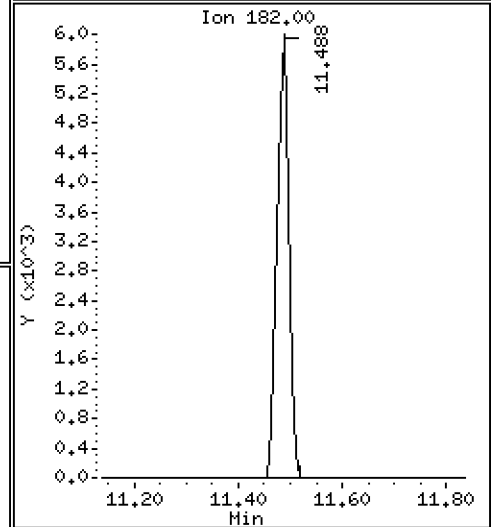
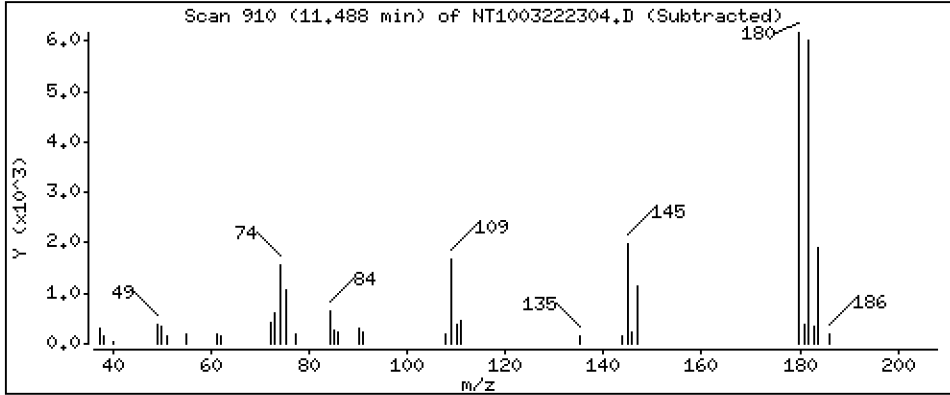
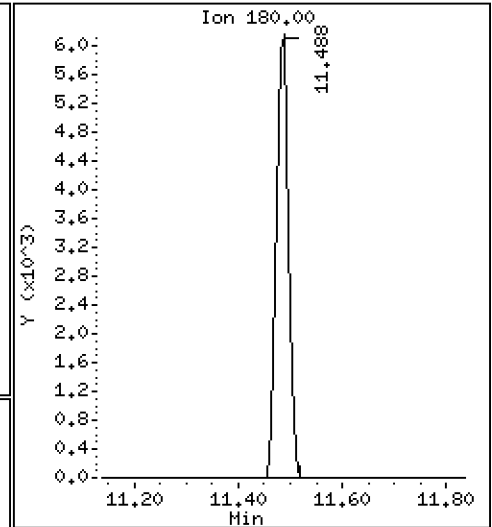
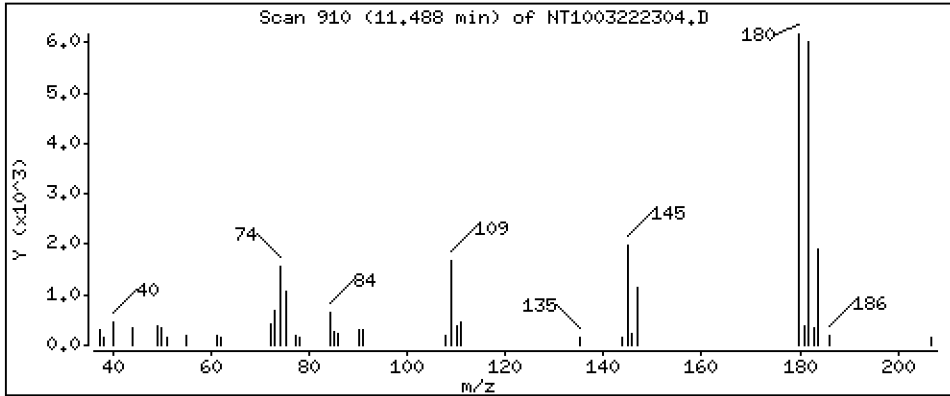
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 0,2206 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

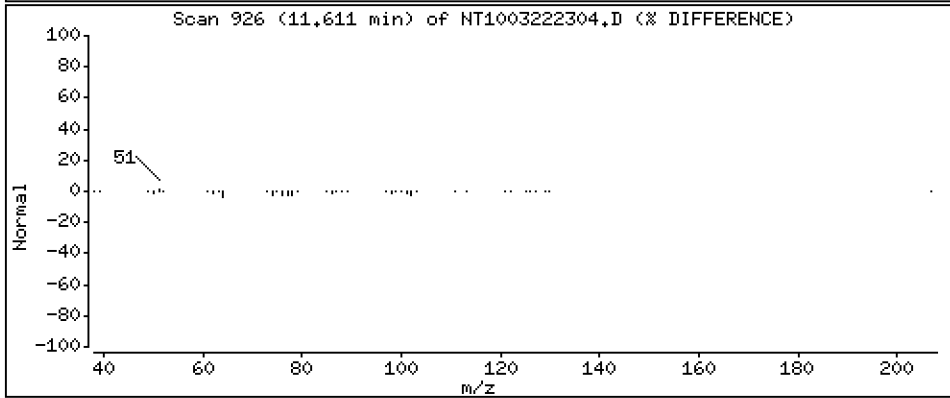
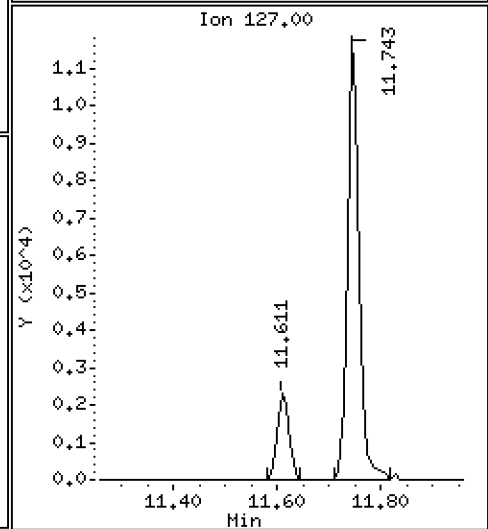
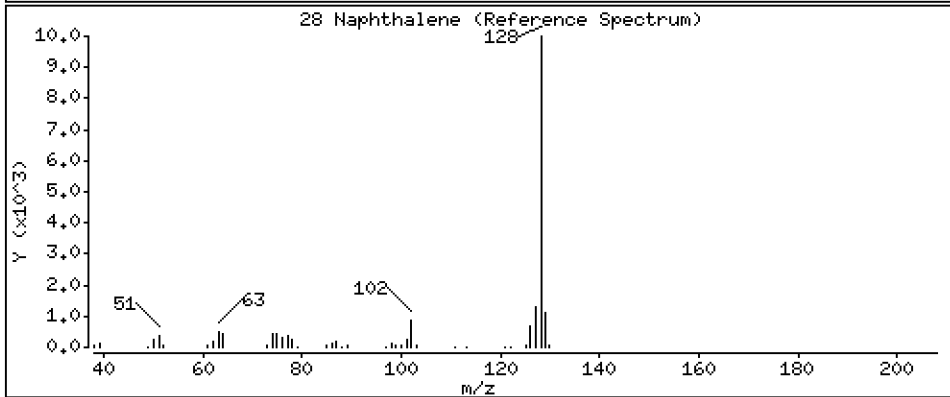
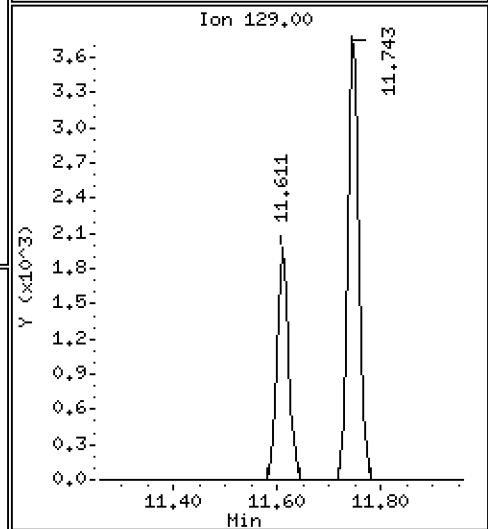
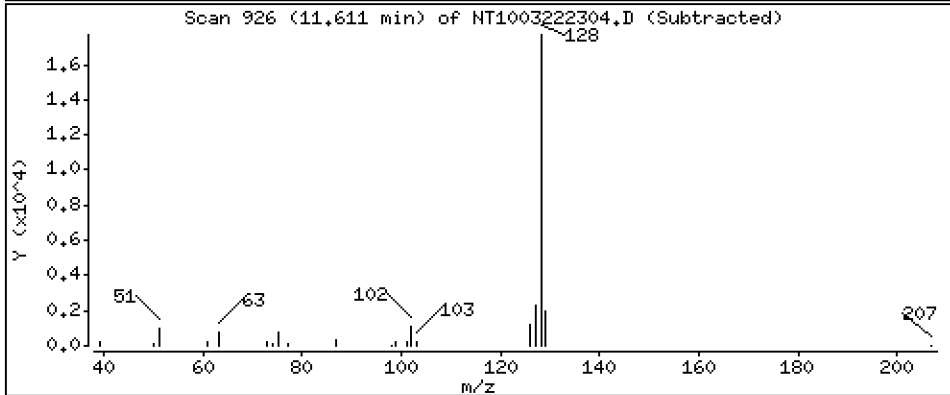
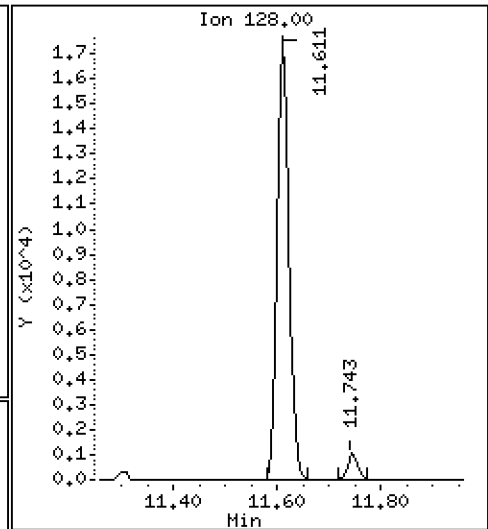
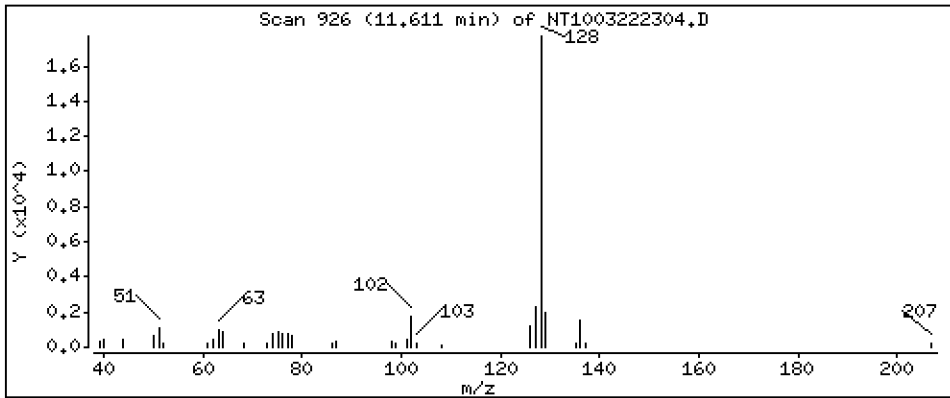
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 0,2102 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

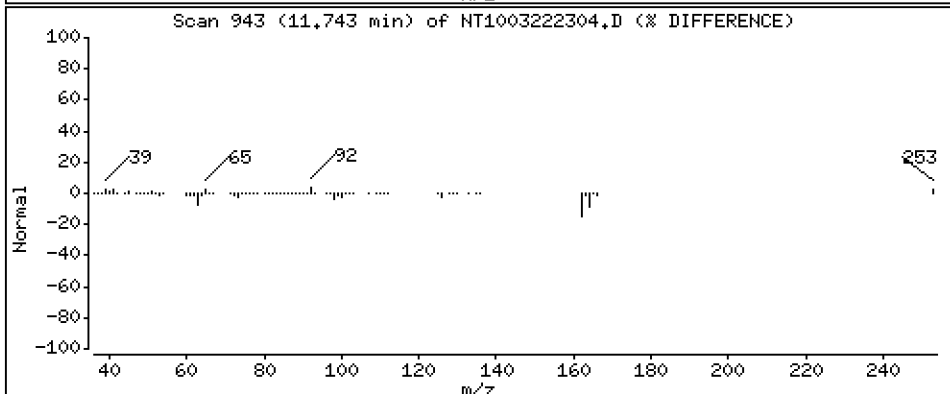
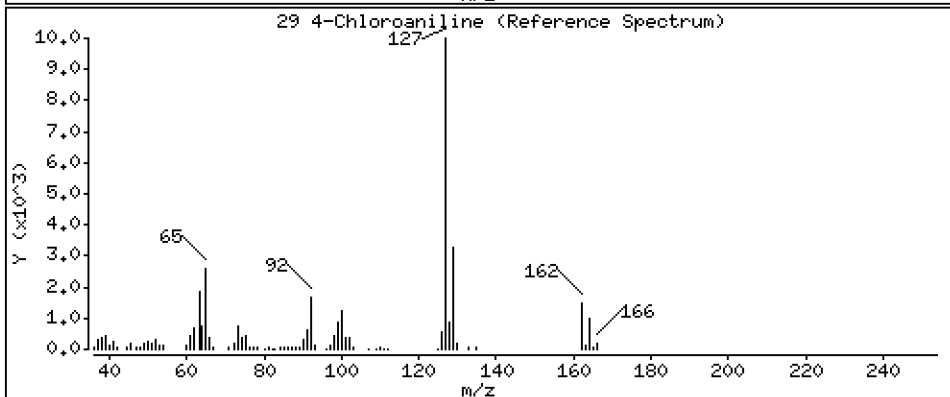
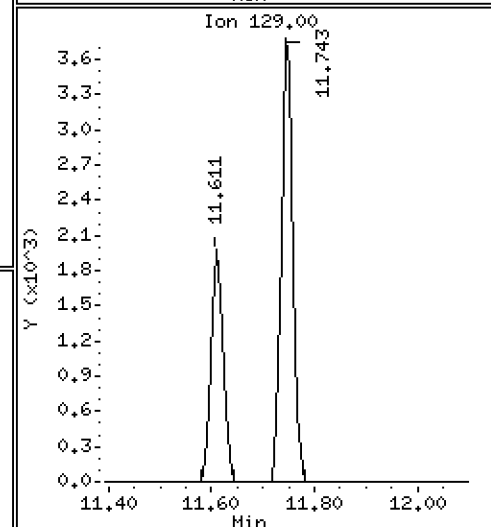
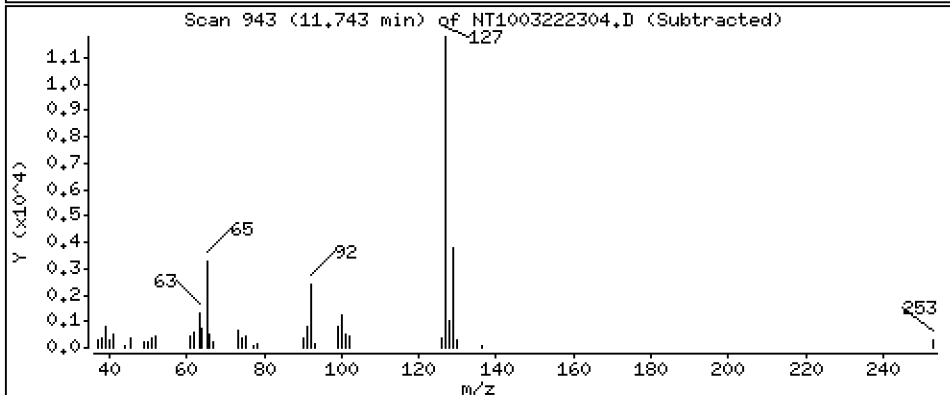
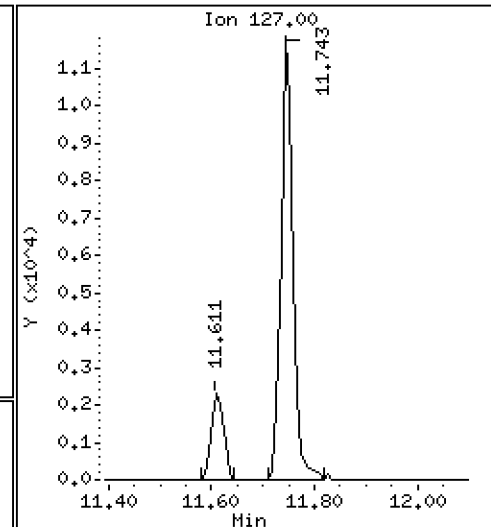
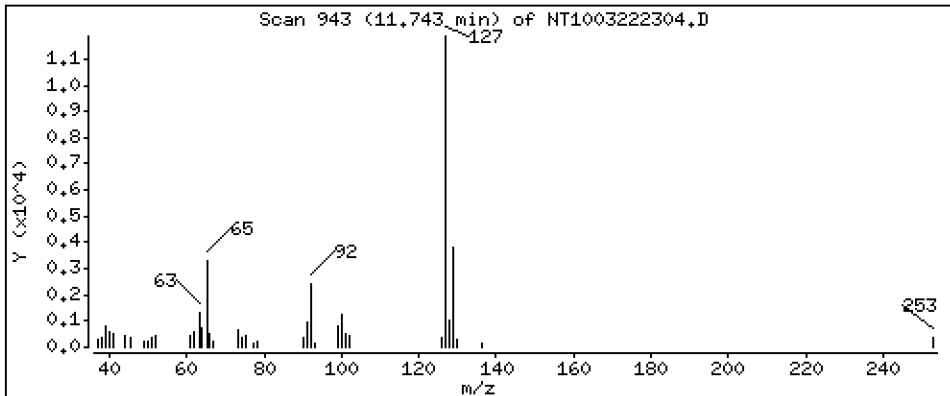
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

29 4-Chloroaniline

Concentration: 0,3570 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

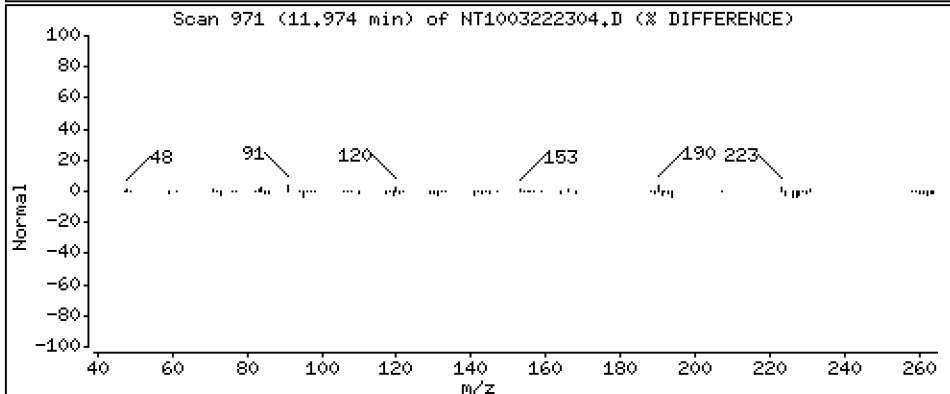
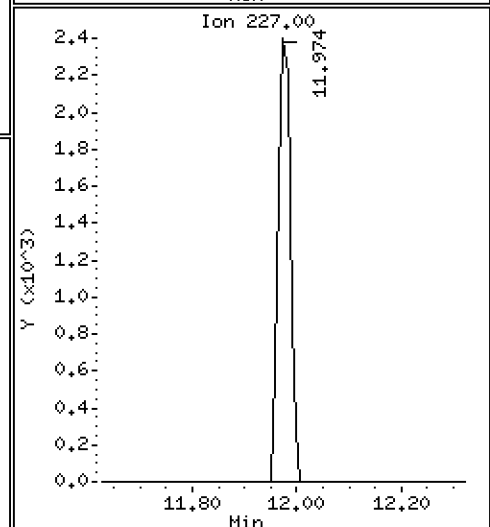
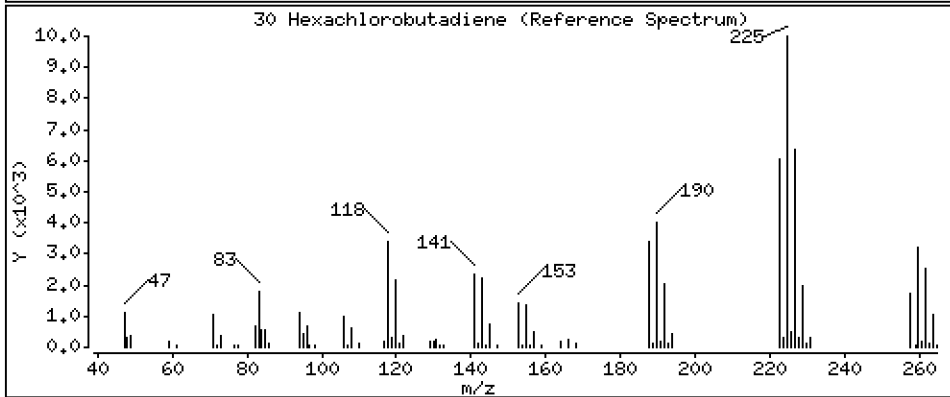
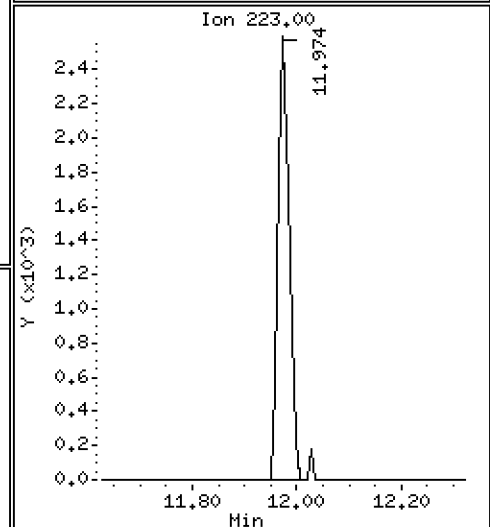
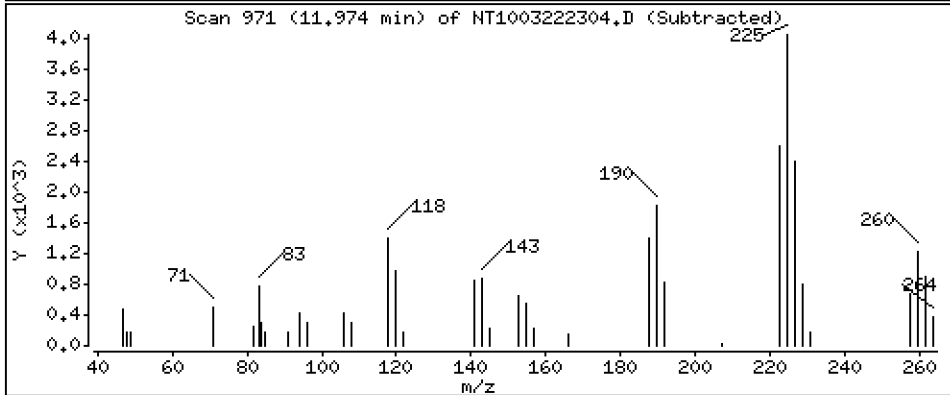
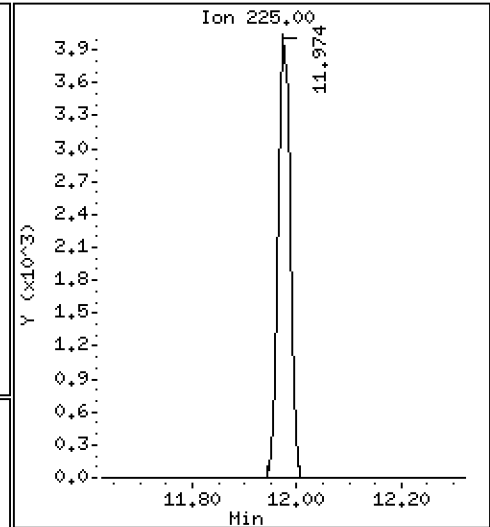
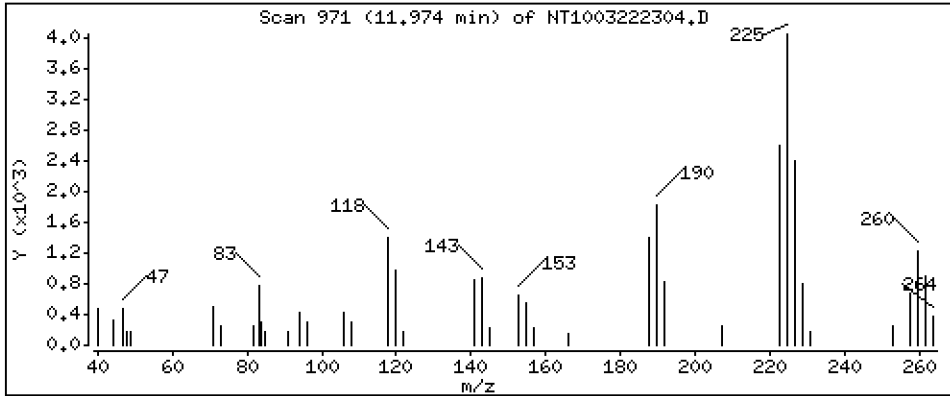
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 0,2388 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

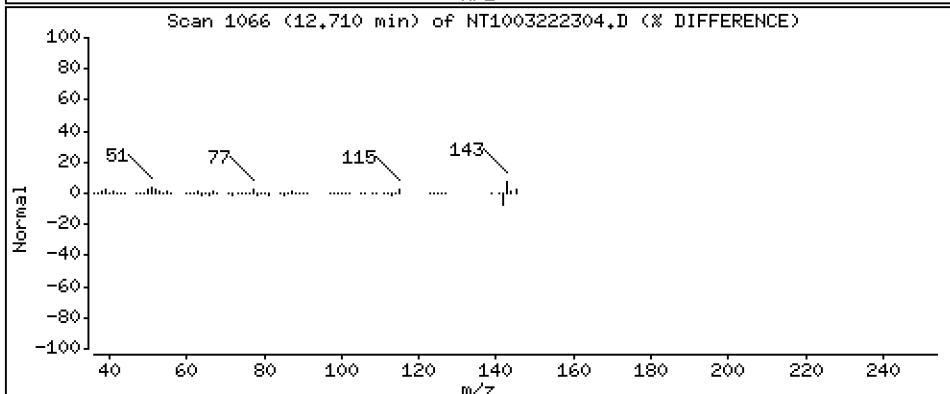
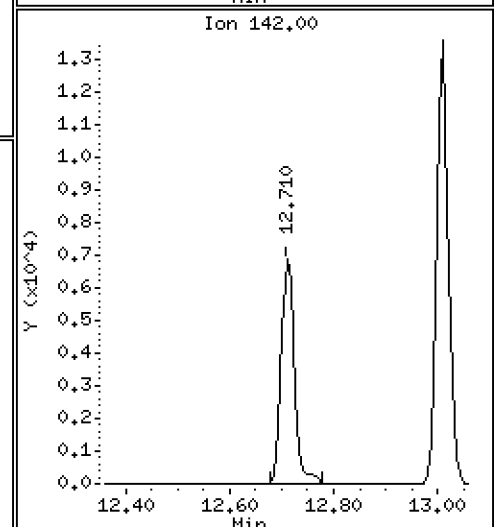
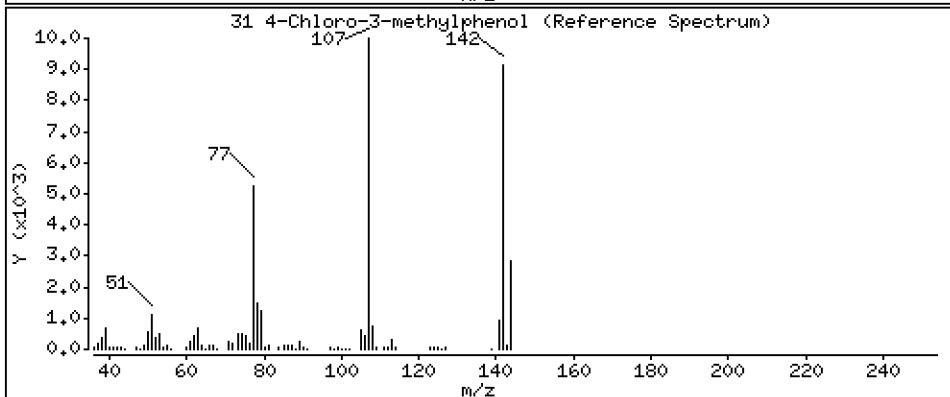
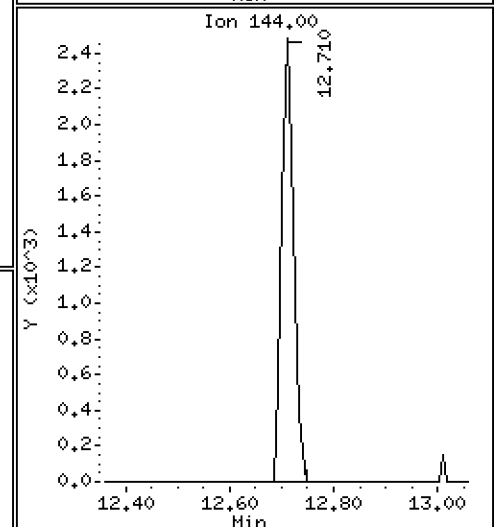
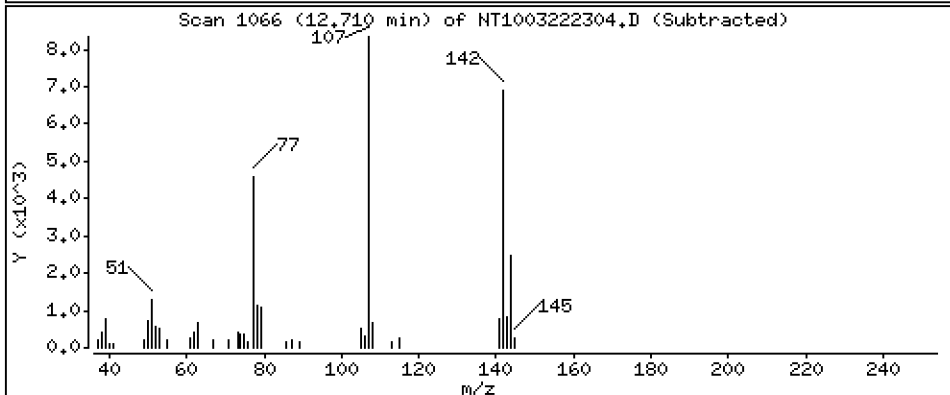
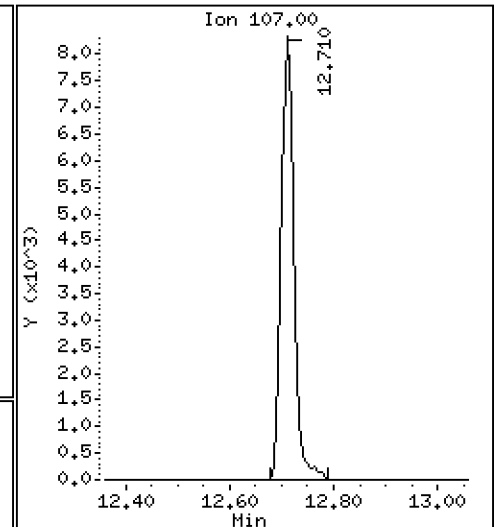
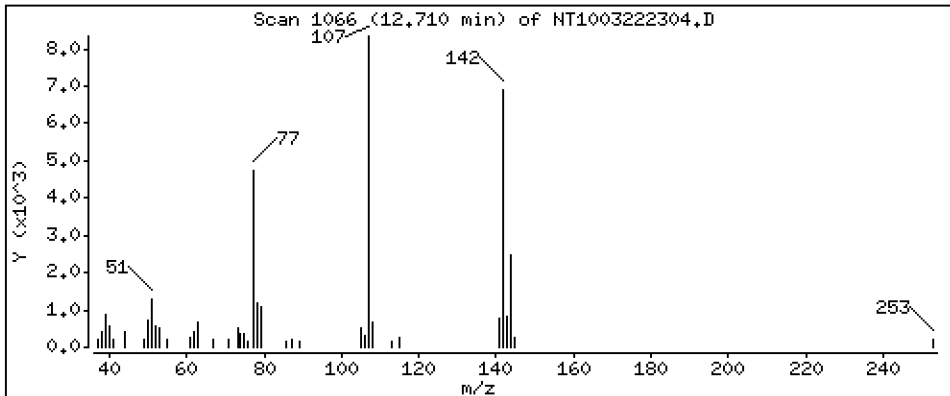
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

31 4-Chloro-3-methylphenol

Concentration: 0,3375 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

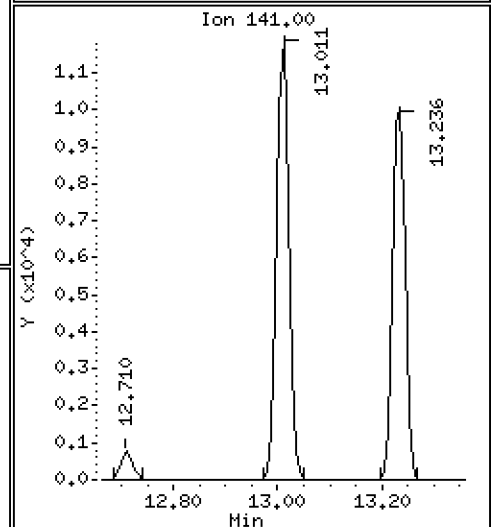
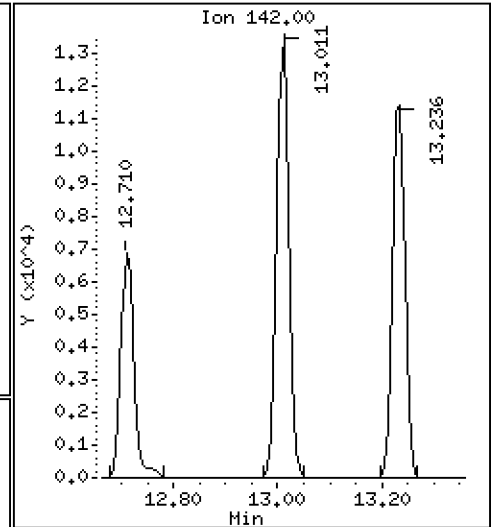
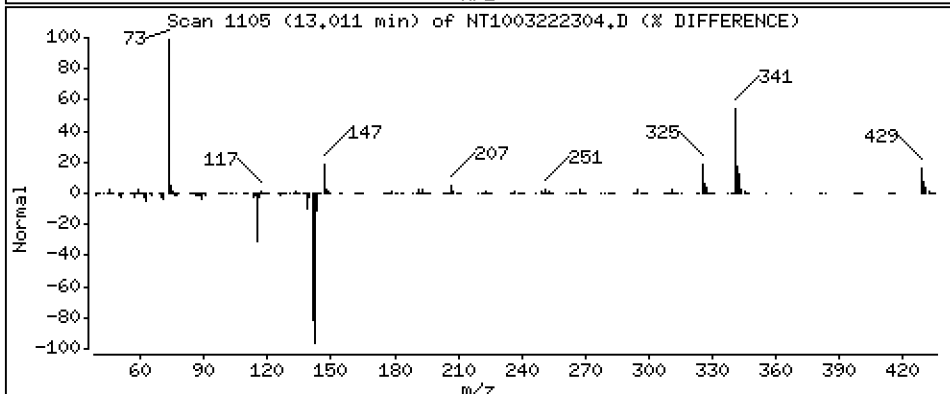
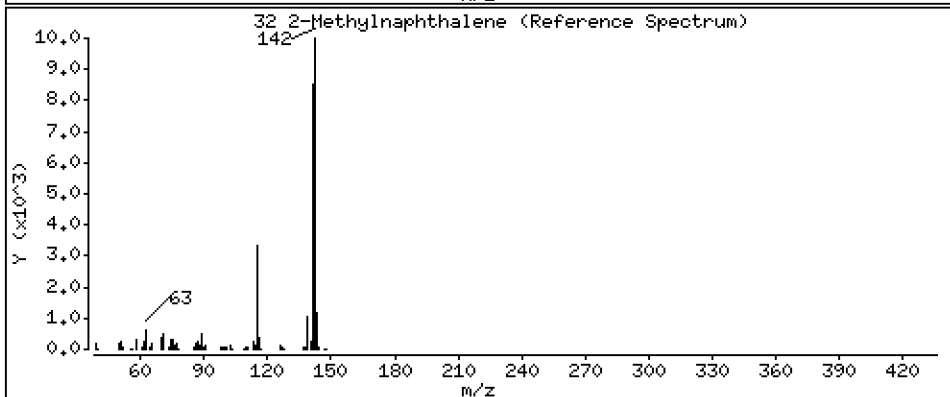
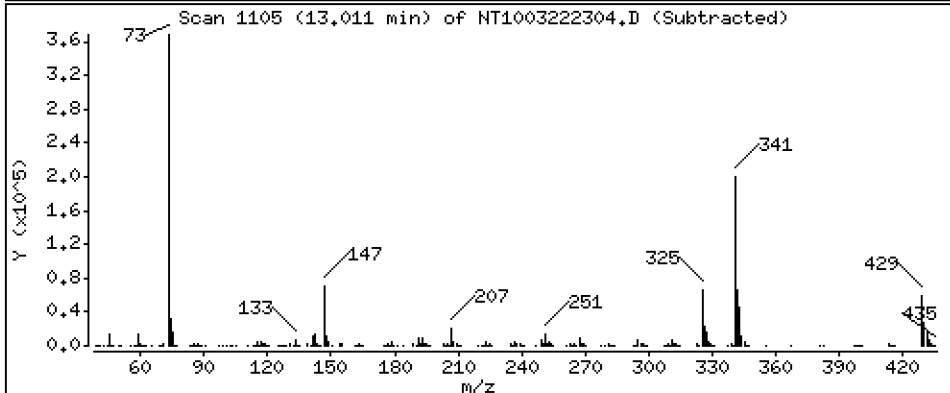
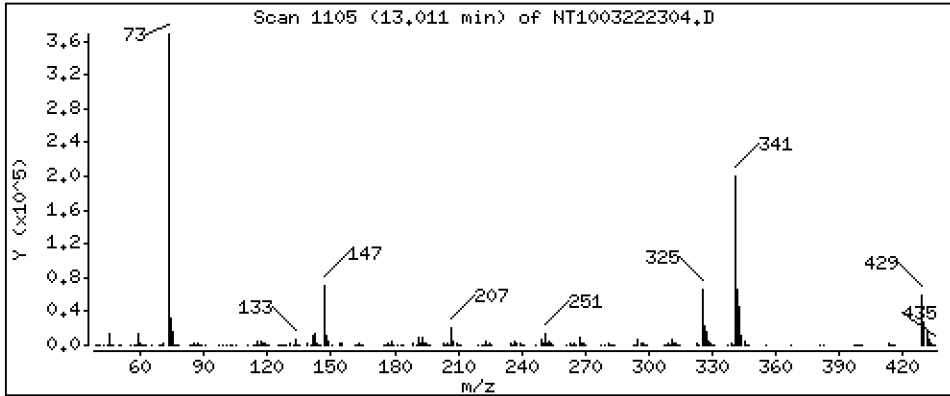
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 0,2136 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

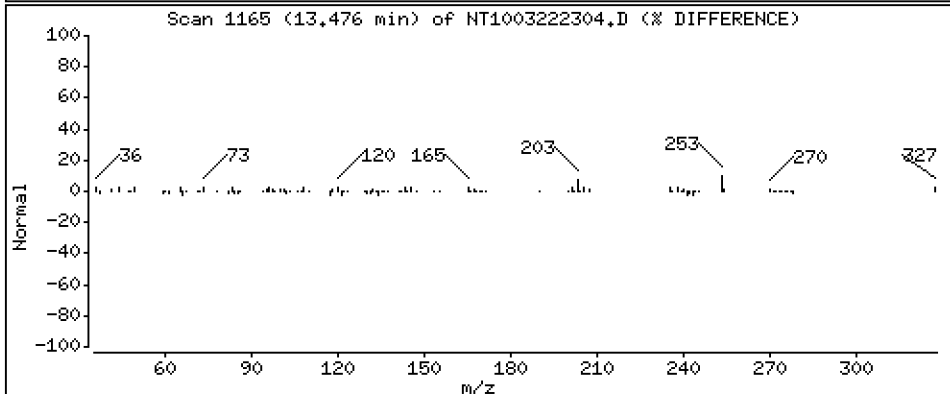
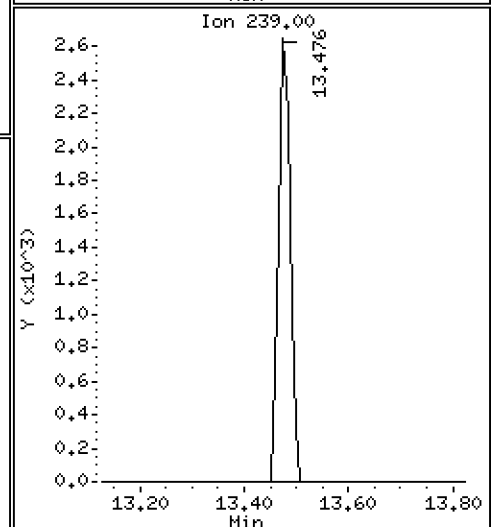
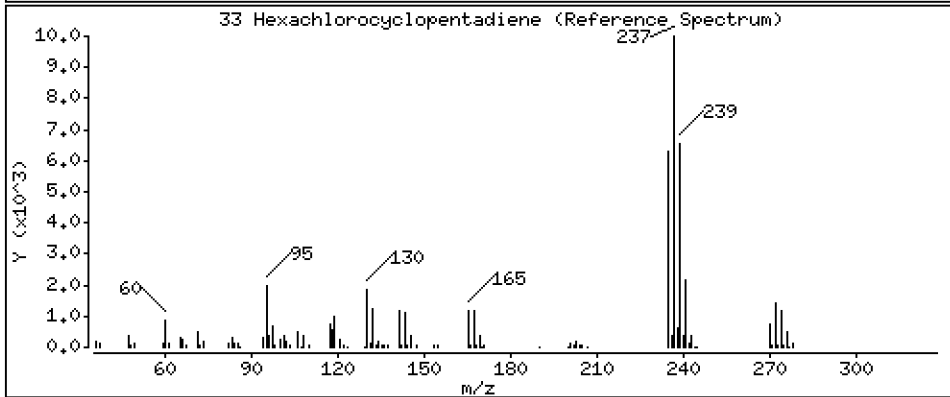
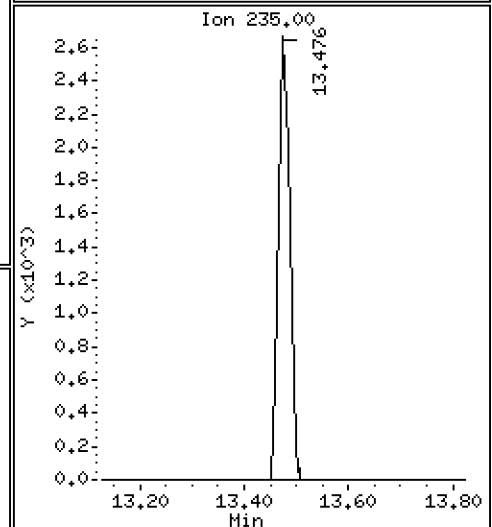
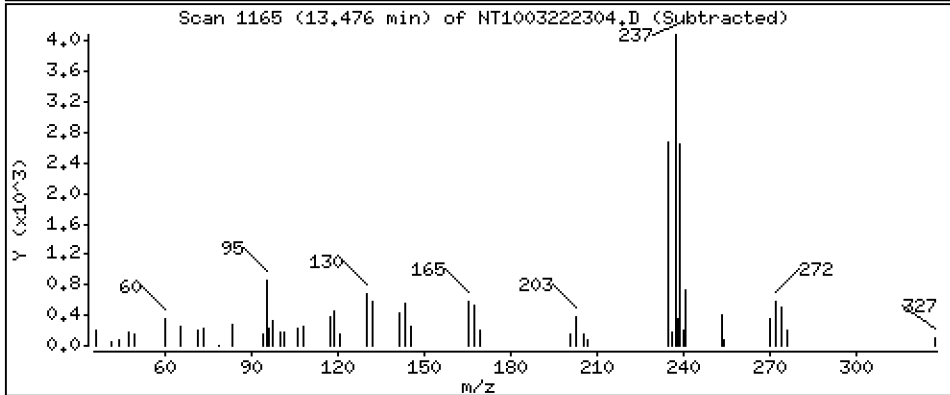
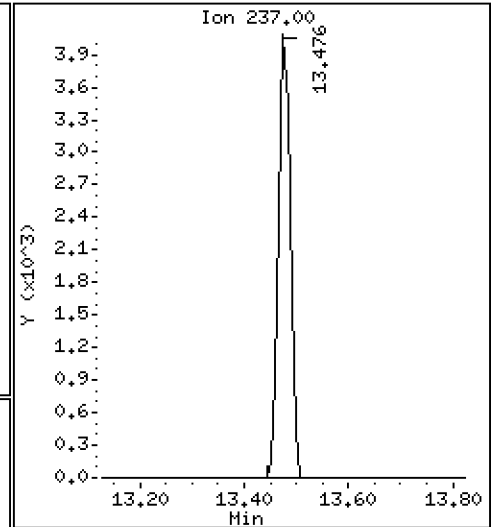
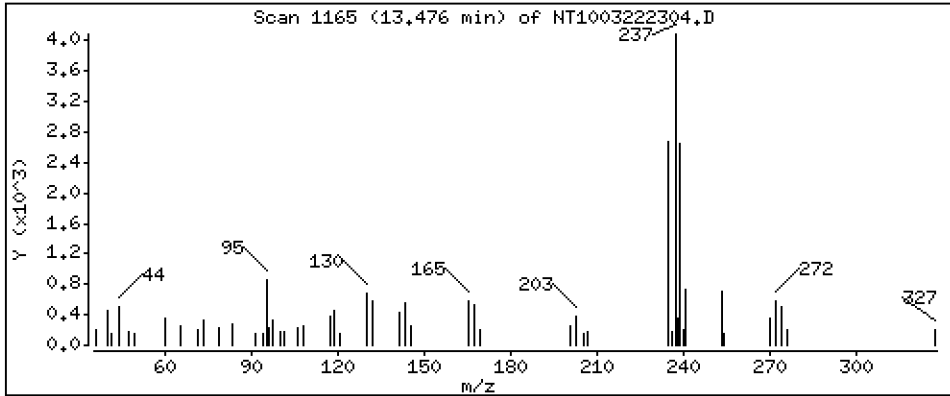
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

33 Hexachlorocyclopentadiene

Concentration: 0.2376 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

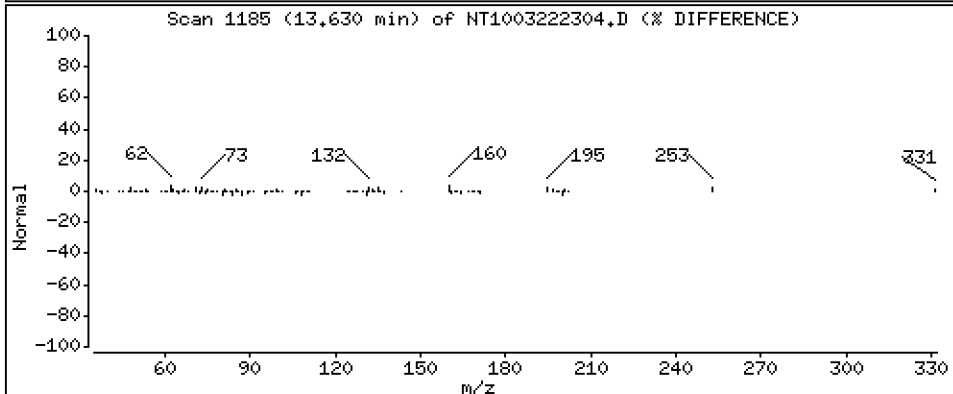
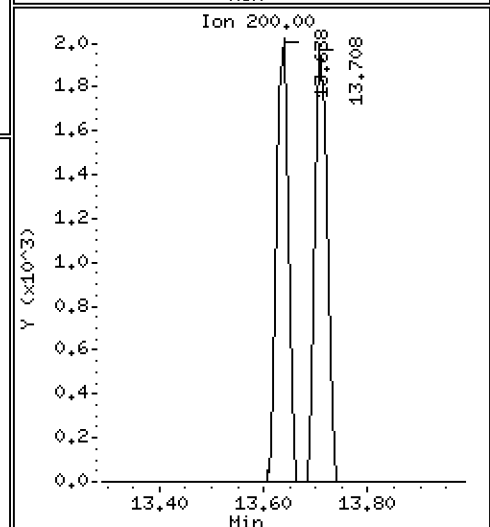
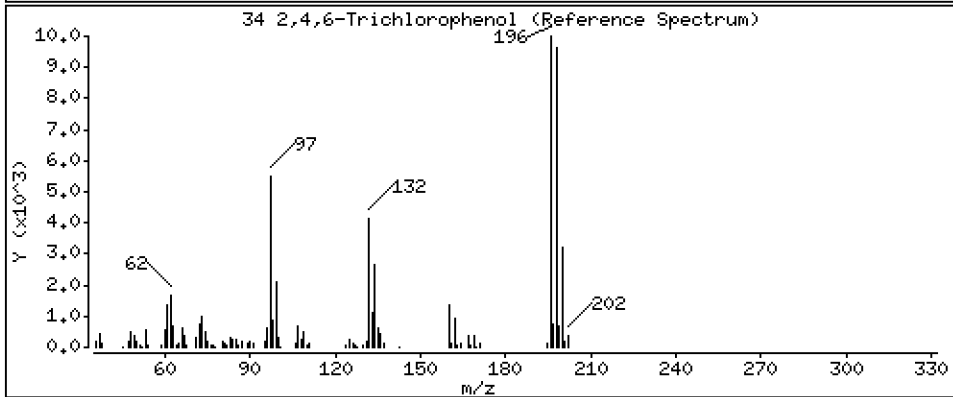
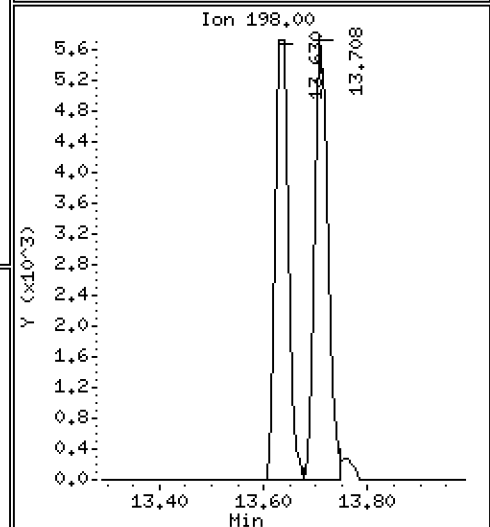
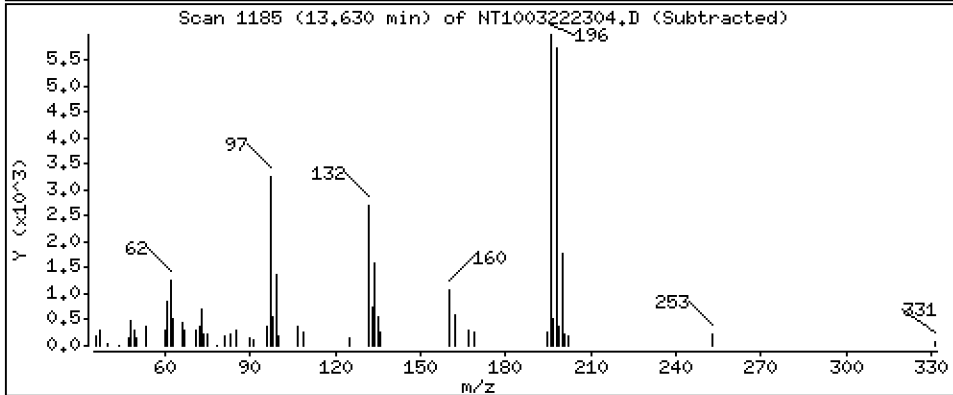
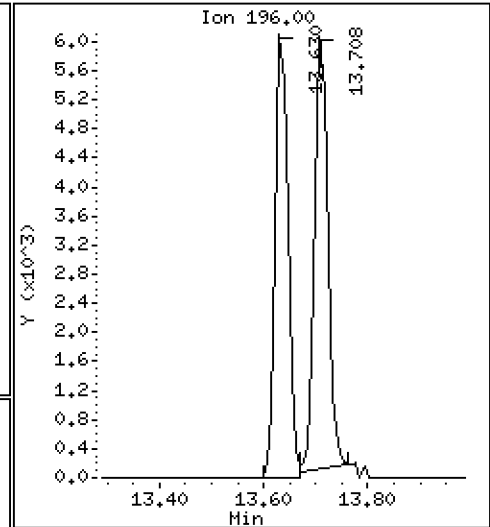
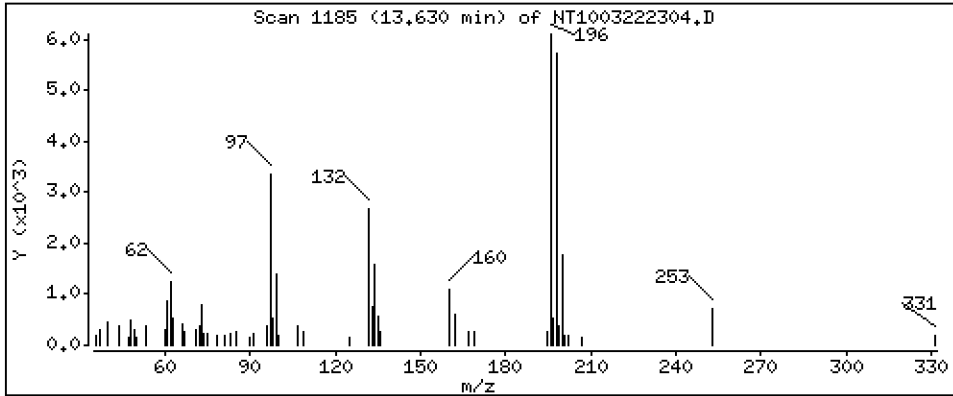
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

34 2,4,6-Trichlorophenol

Concentration: 0,3651 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

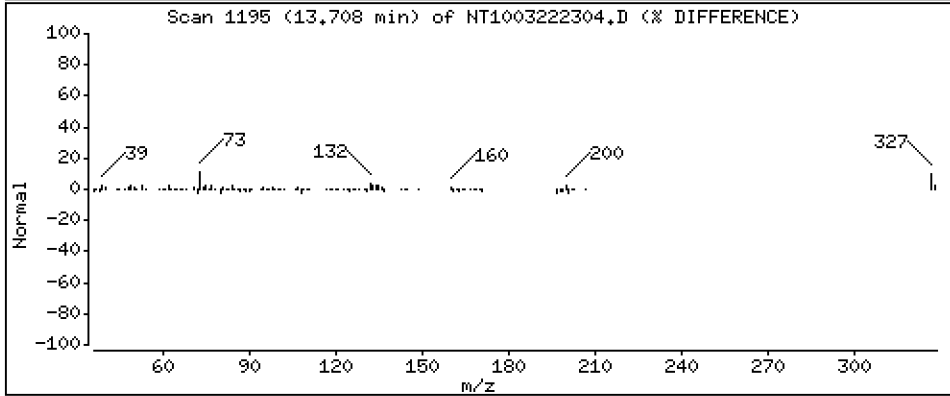
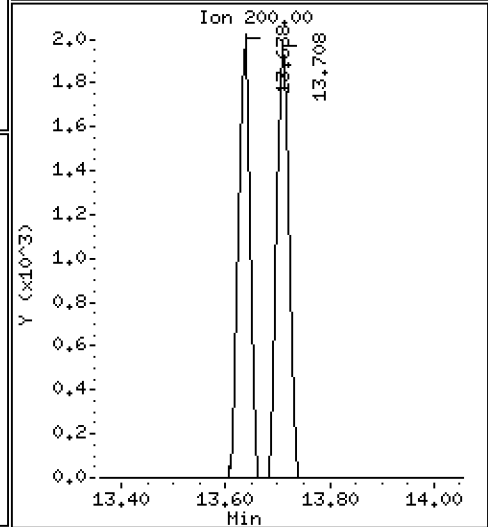
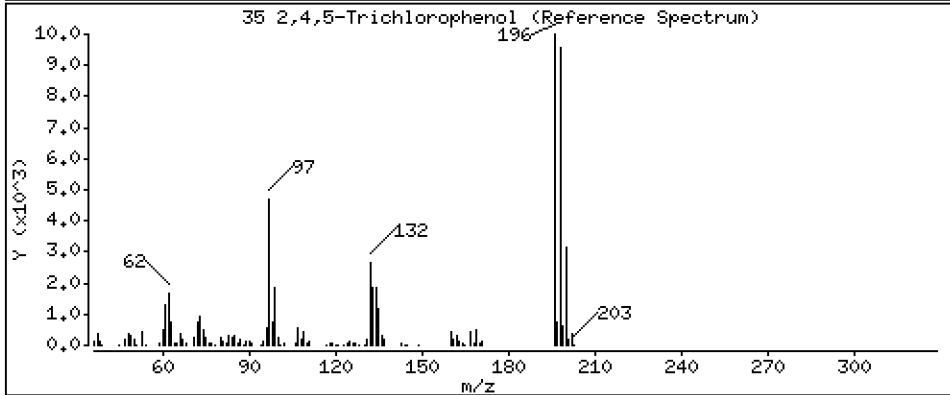
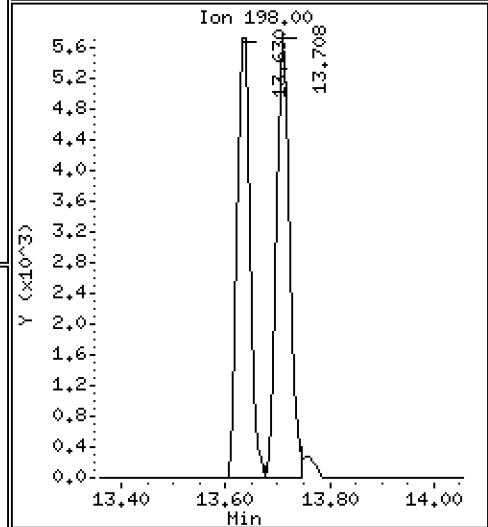
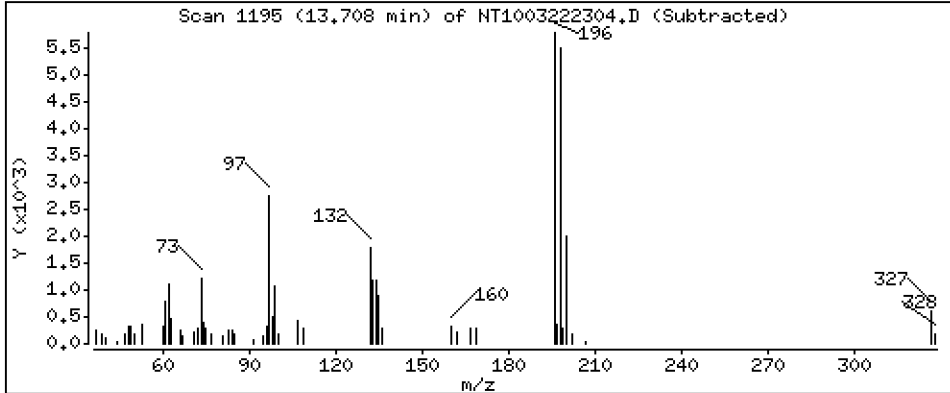
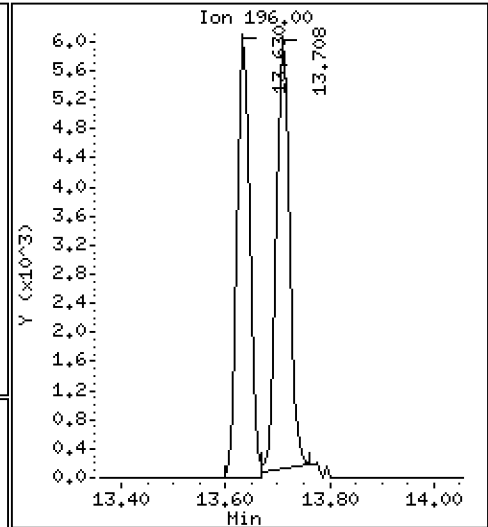
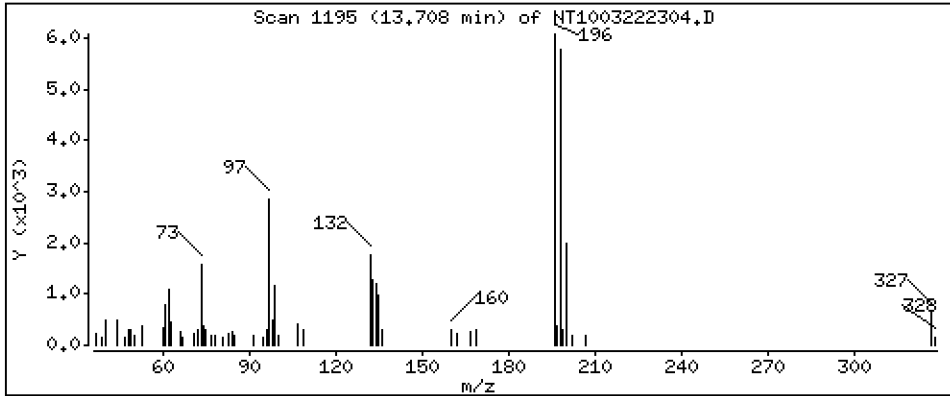
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

35 2,4,5-Trichlorophenol

Concentration: 0,3331 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

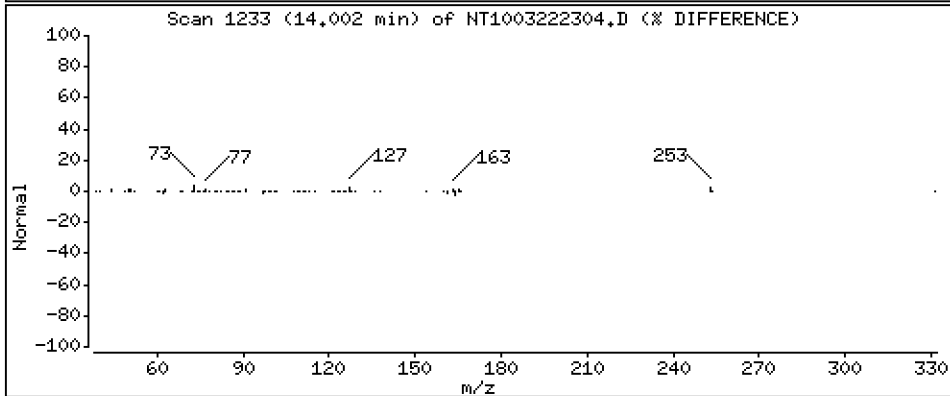
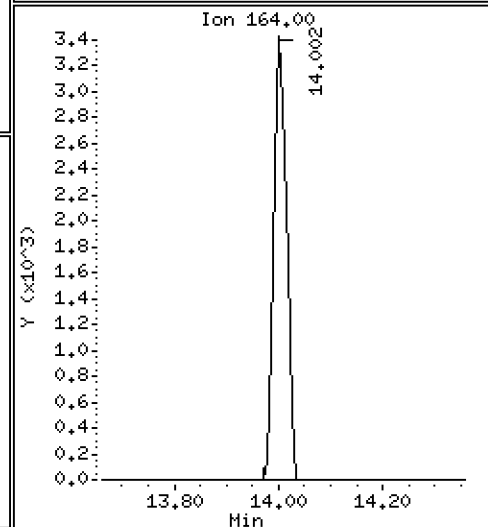
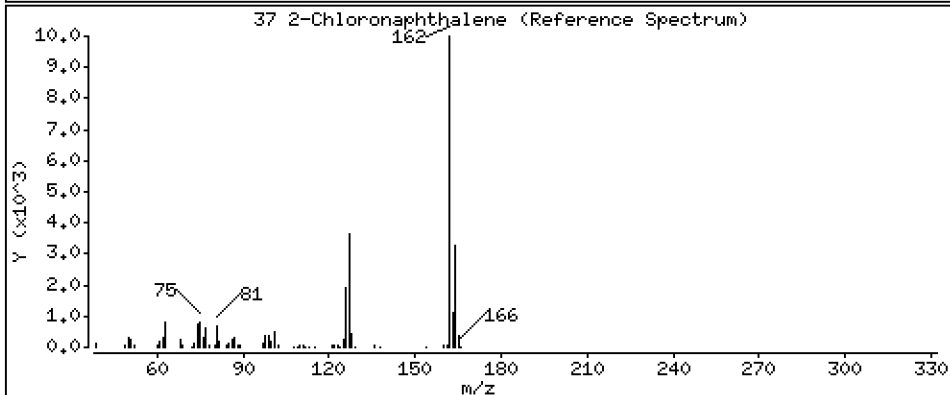
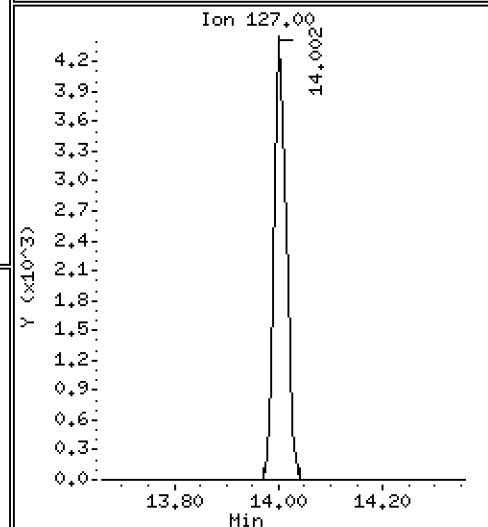
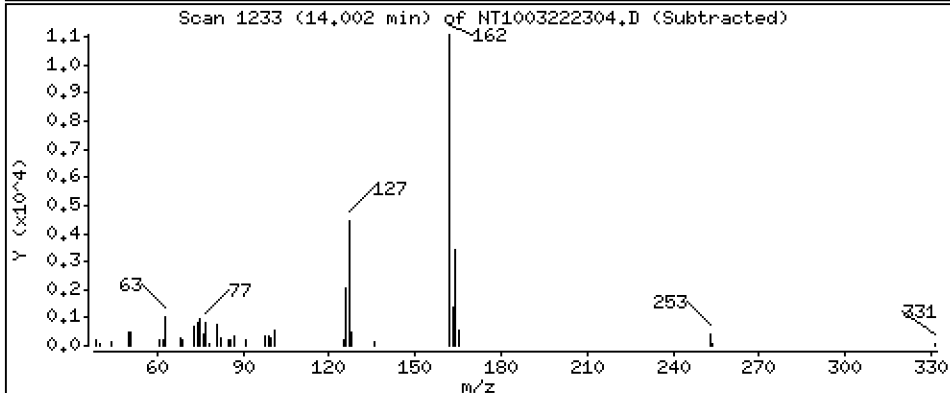
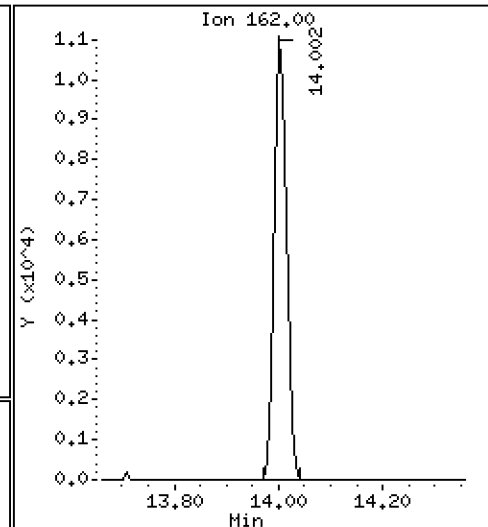
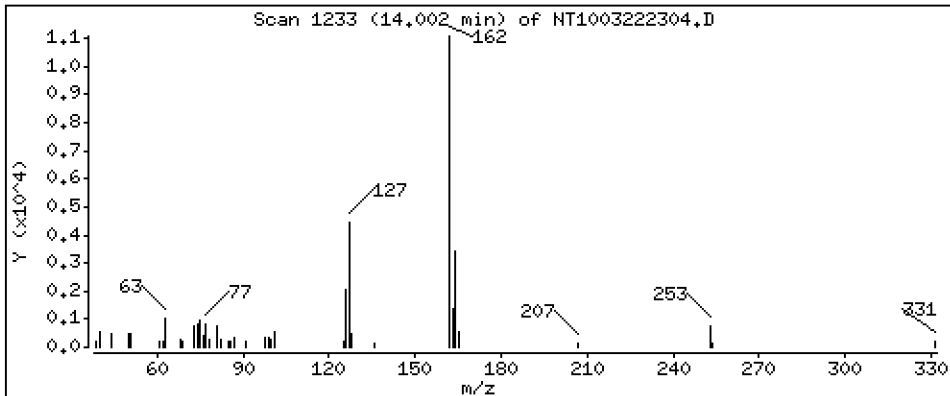
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

37 2-Chloronaphthalene

Concentration: 0.1981 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

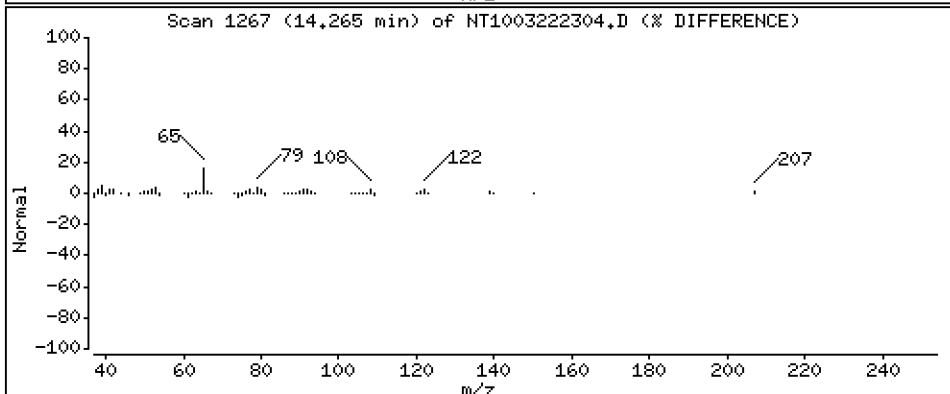
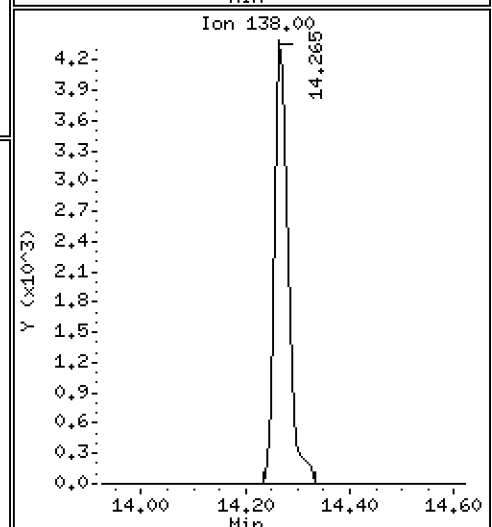
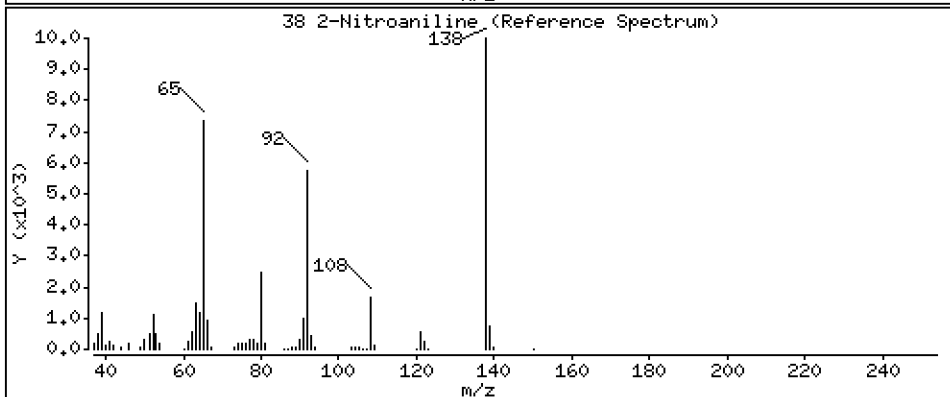
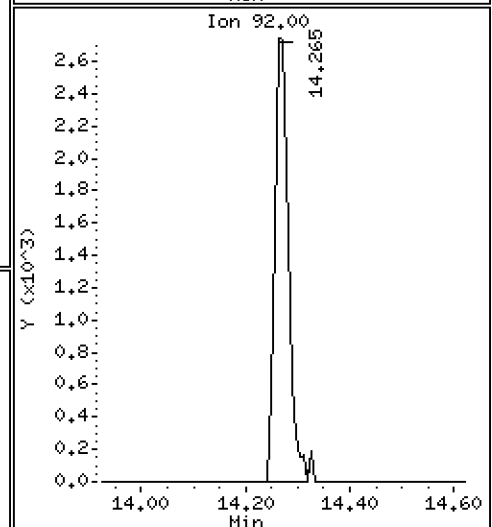
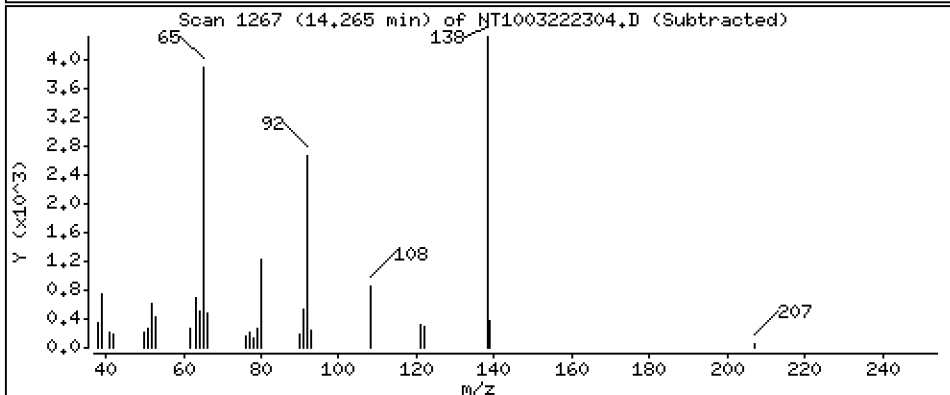
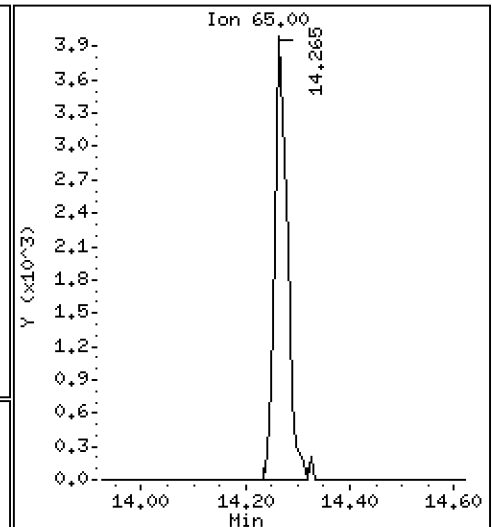
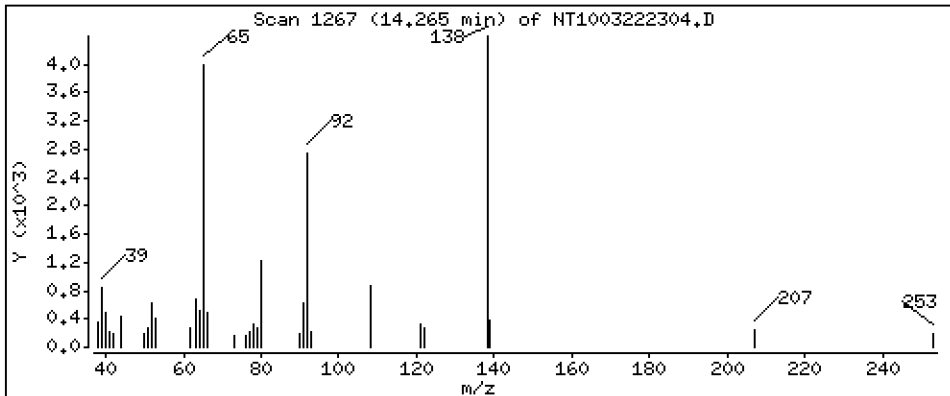
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

38 2-Nitroaniline

Concentration: 0,2630 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

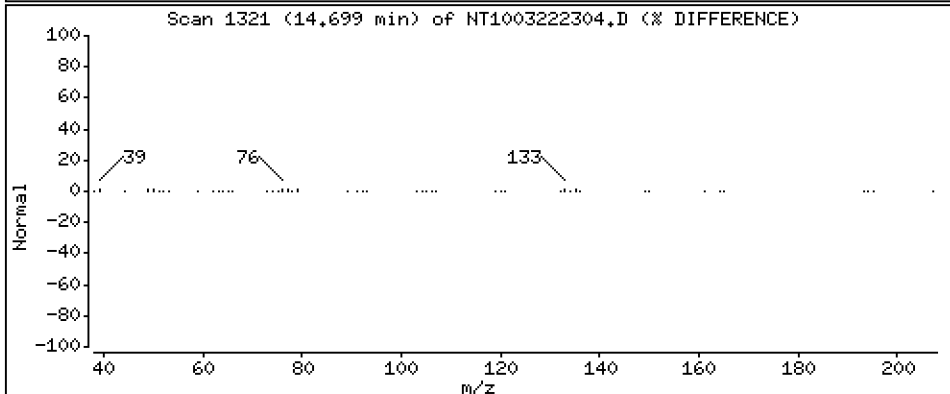
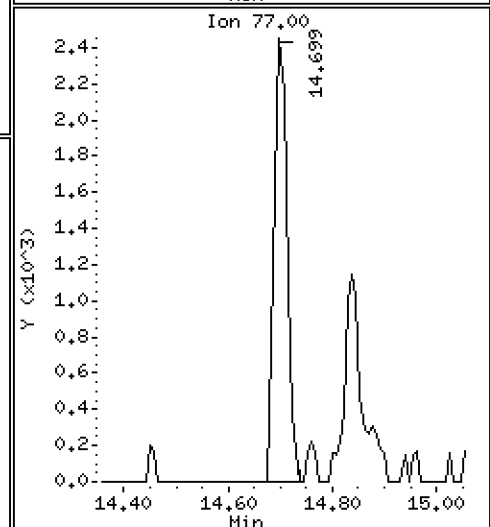
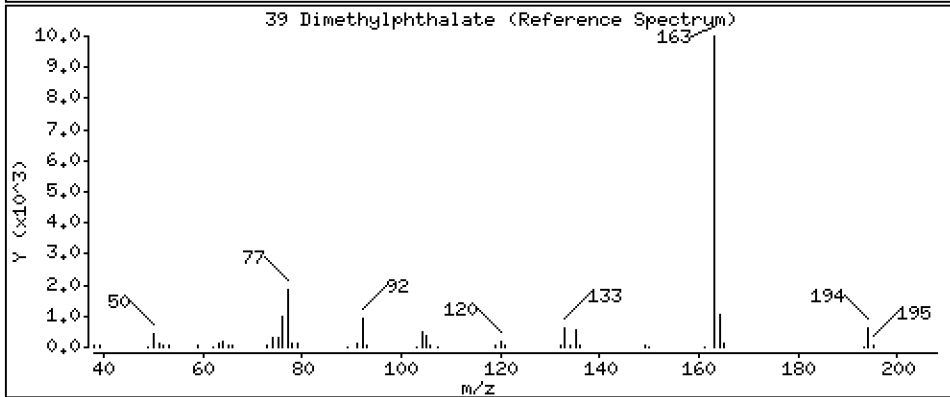
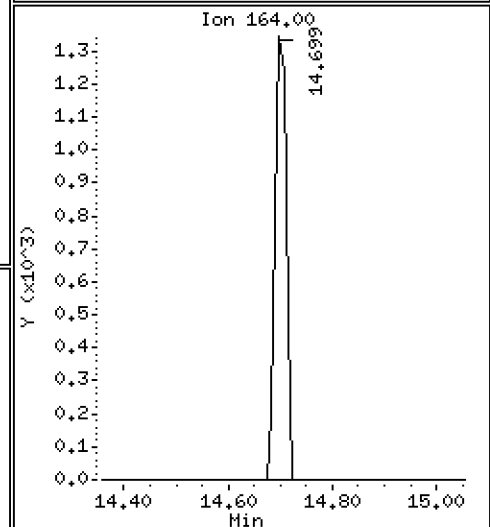
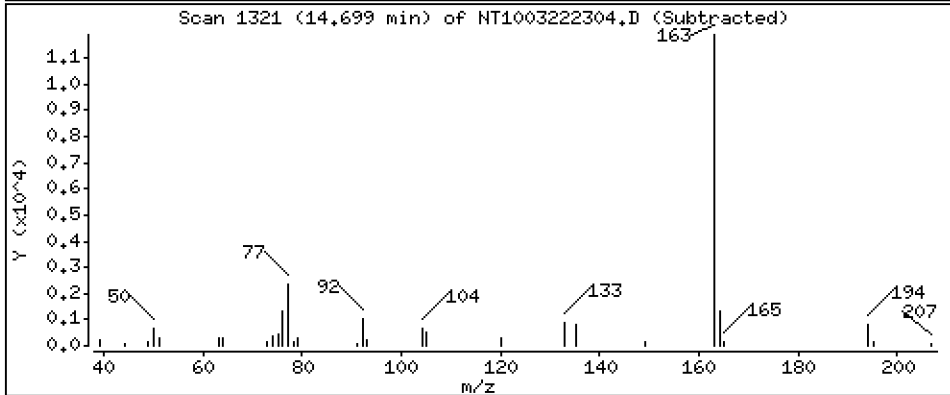
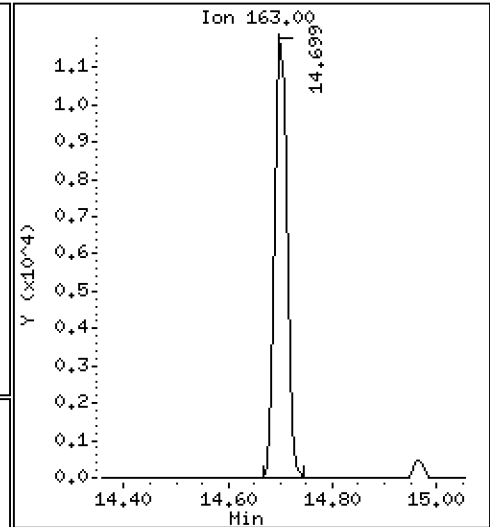
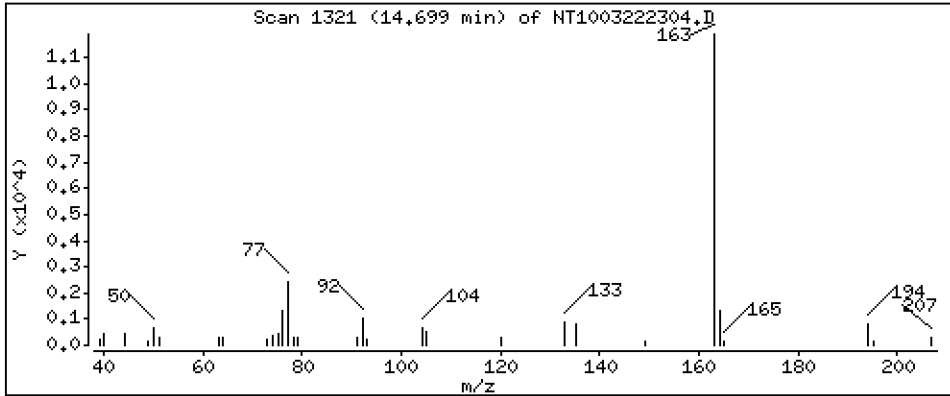
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 0,2038 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

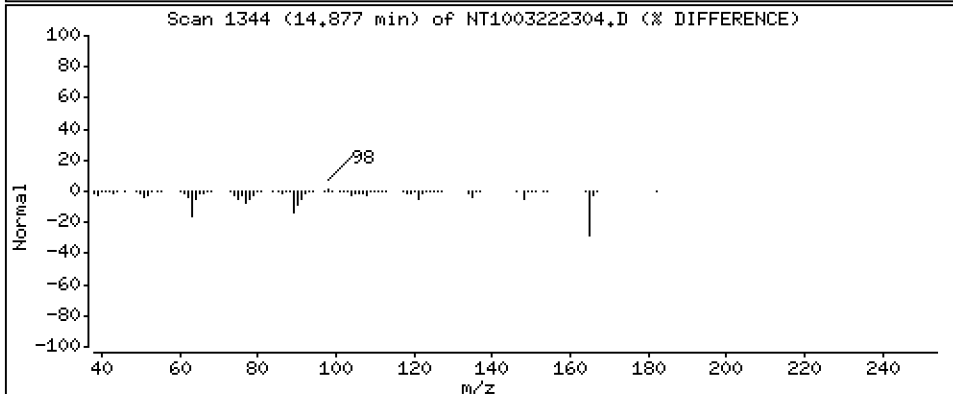
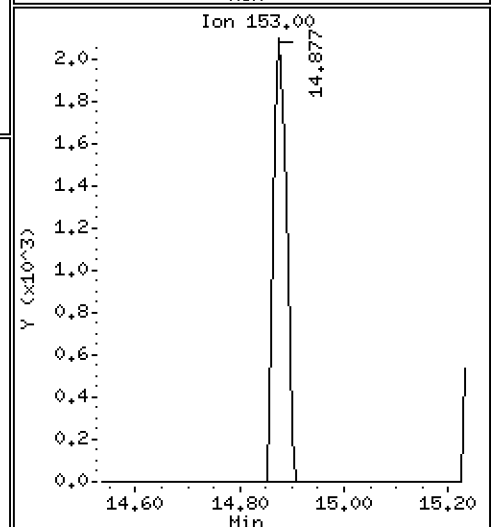
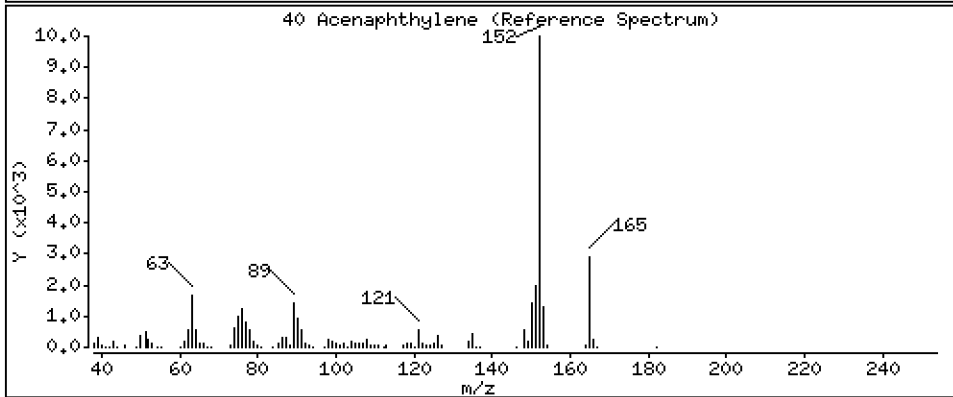
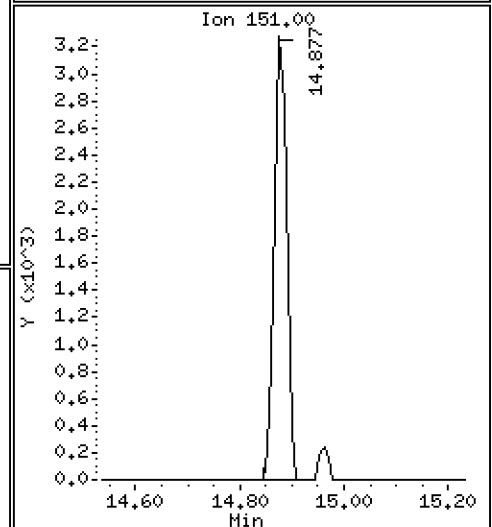
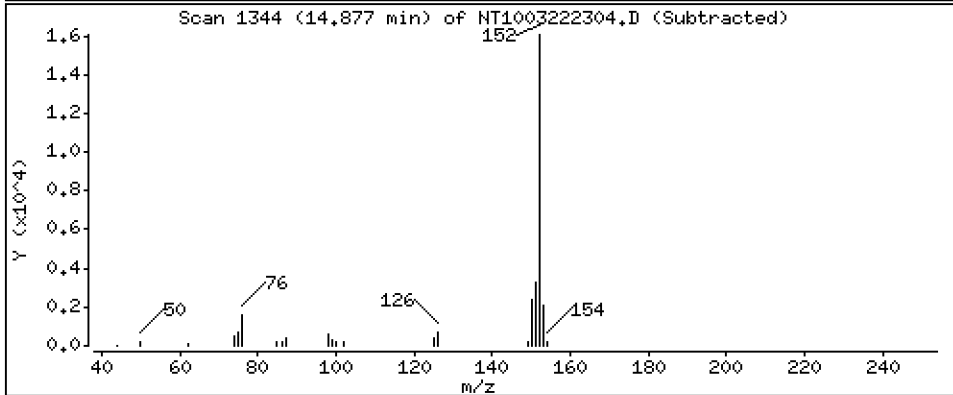
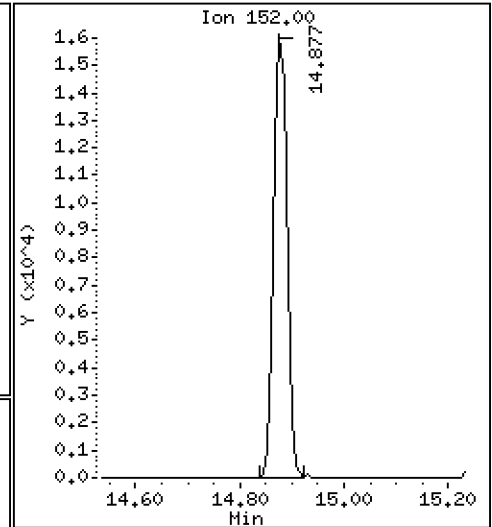
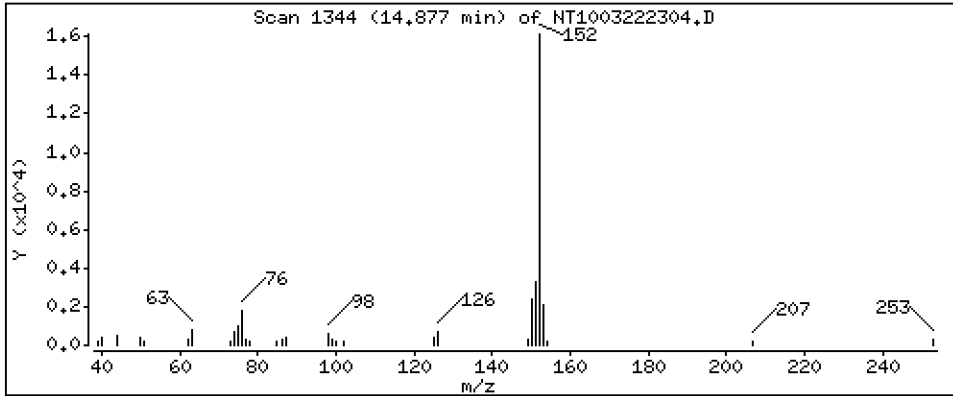
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 0,1982 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

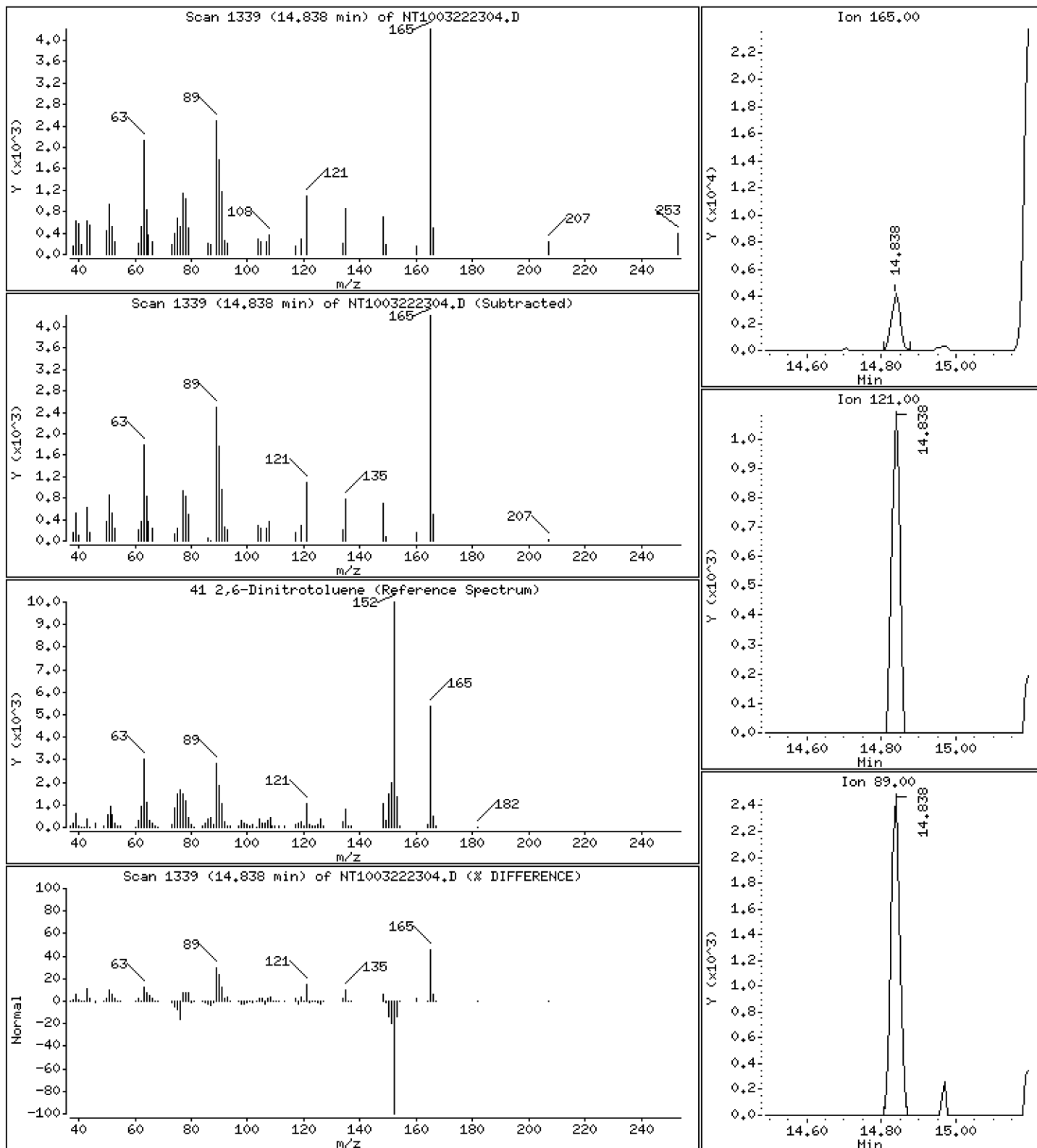
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

41 2,6-Dinitrotoluene

Concentration: 0.3243 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

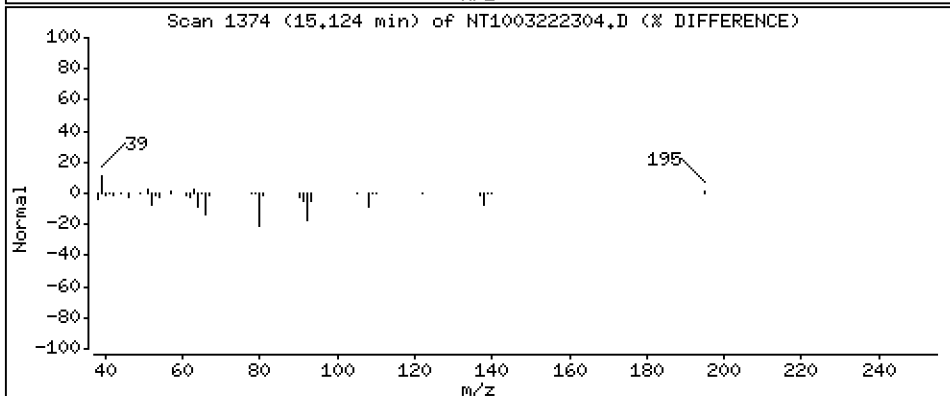
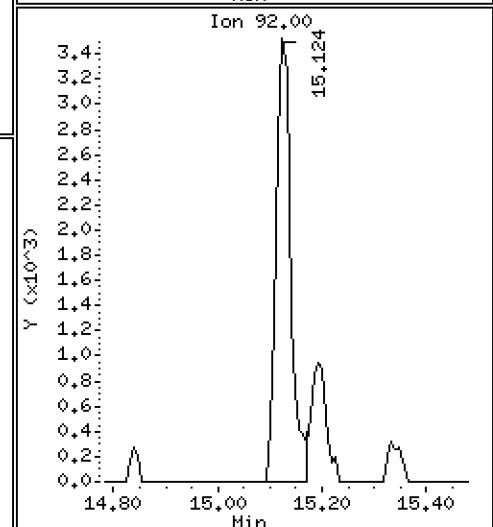
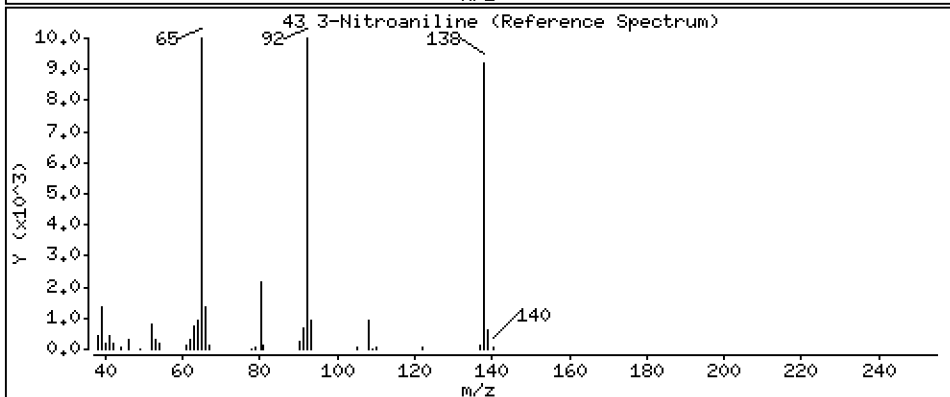
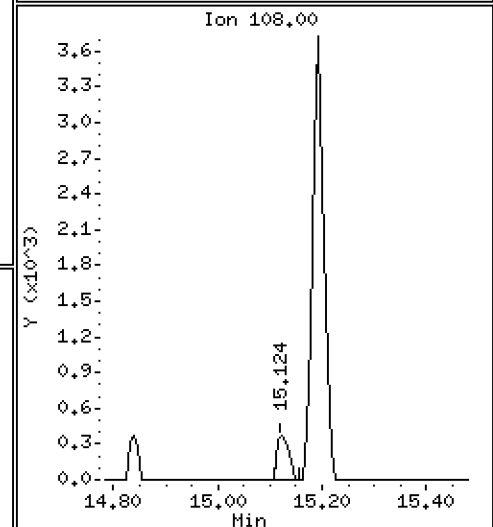
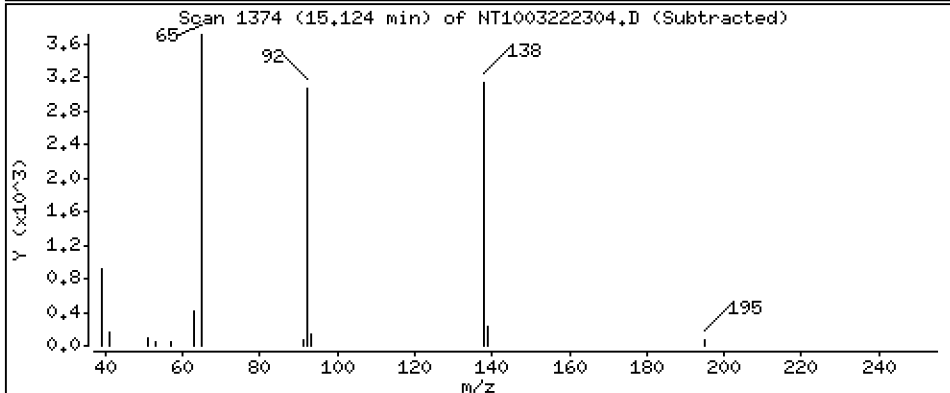
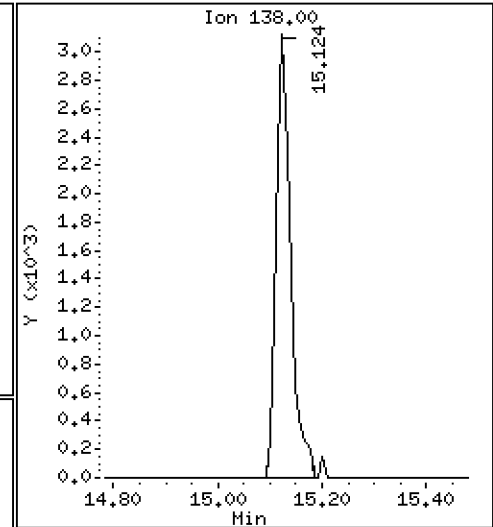
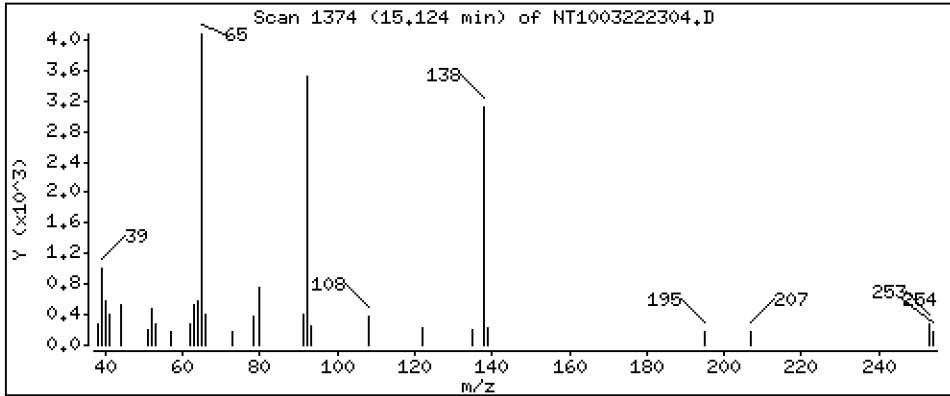
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

43 3-Nitroaniline

Concentration: 0,2629 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

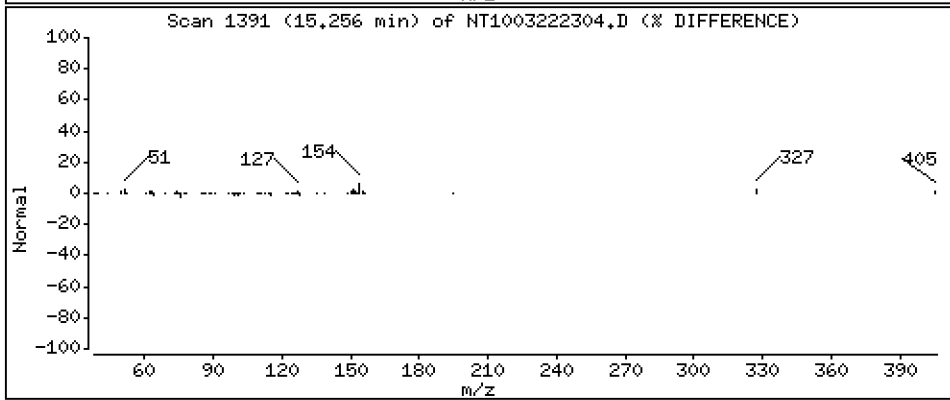
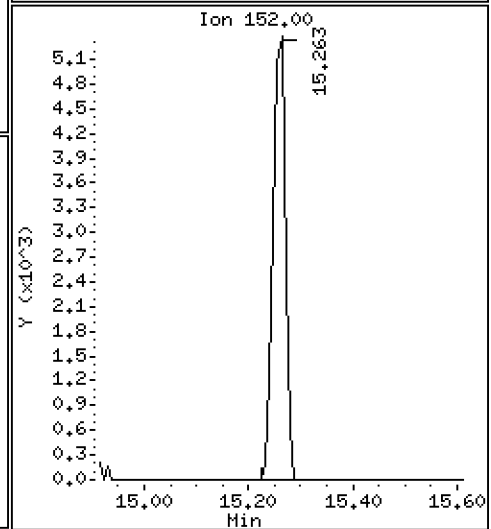
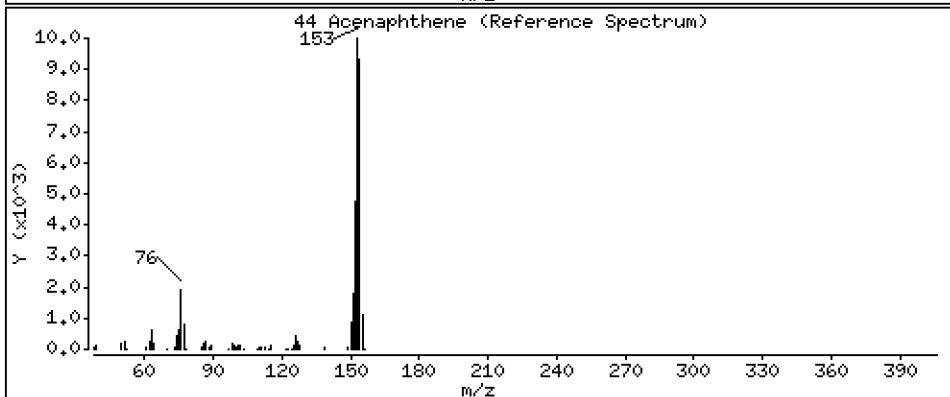
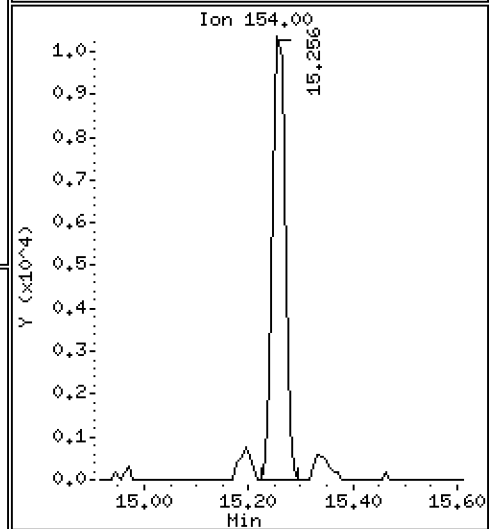
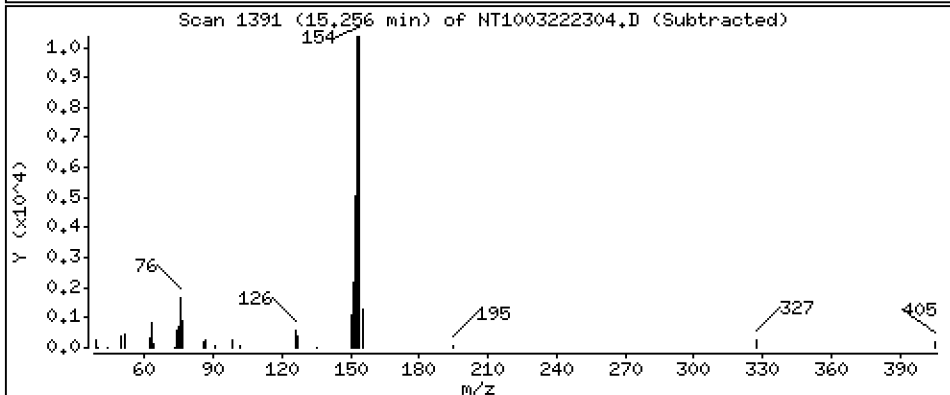
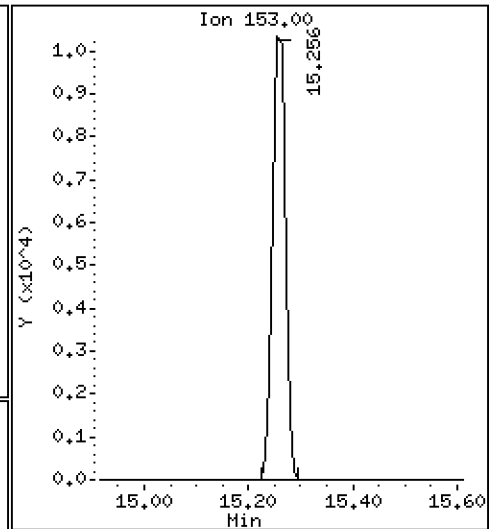
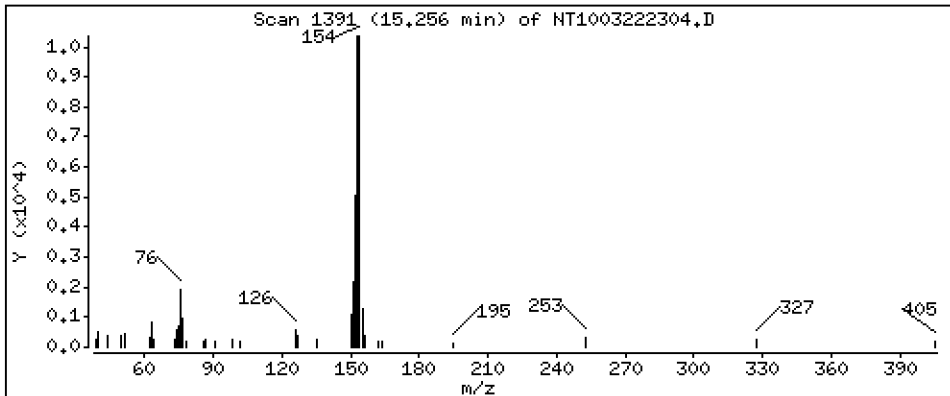
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 0,1979 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

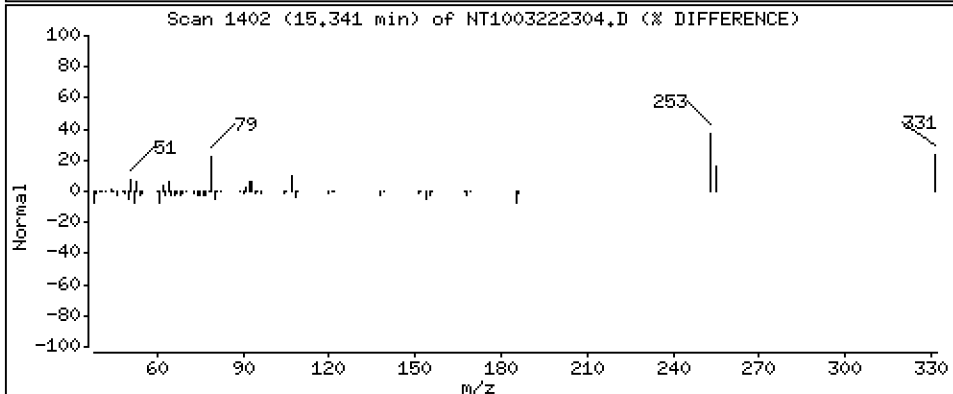
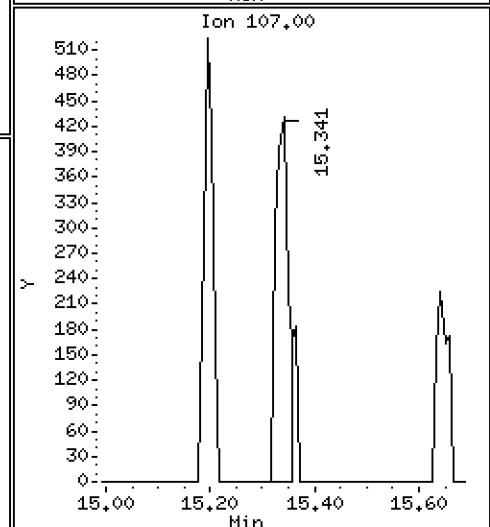
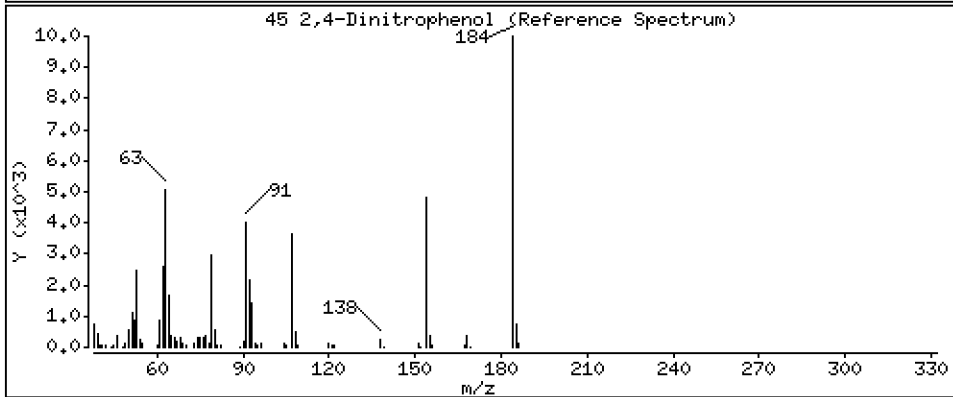
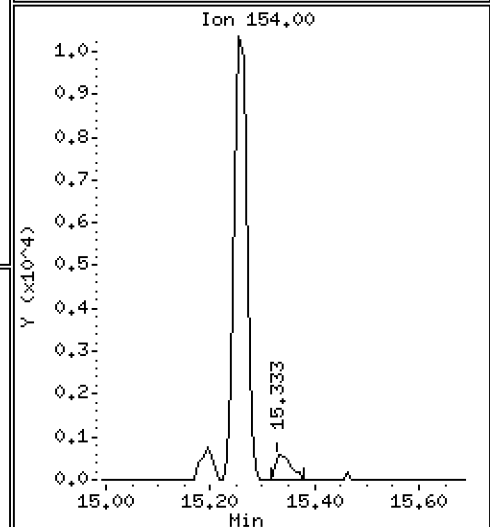
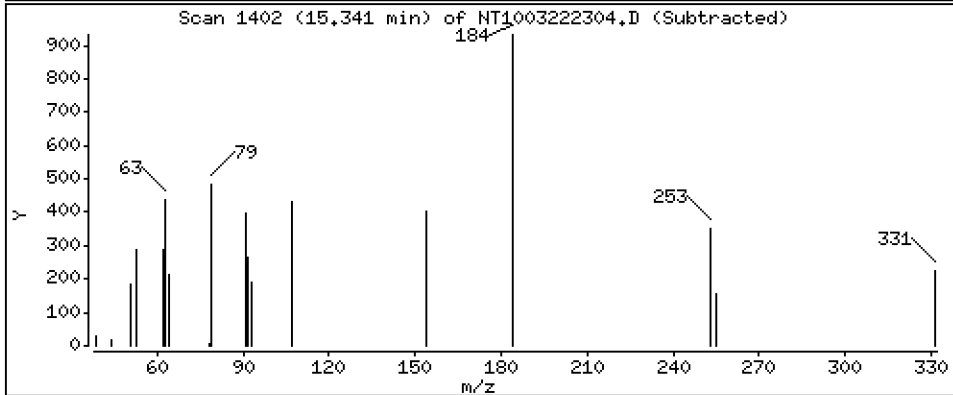
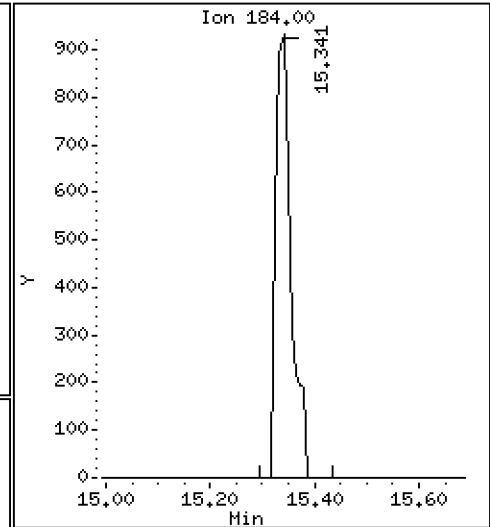
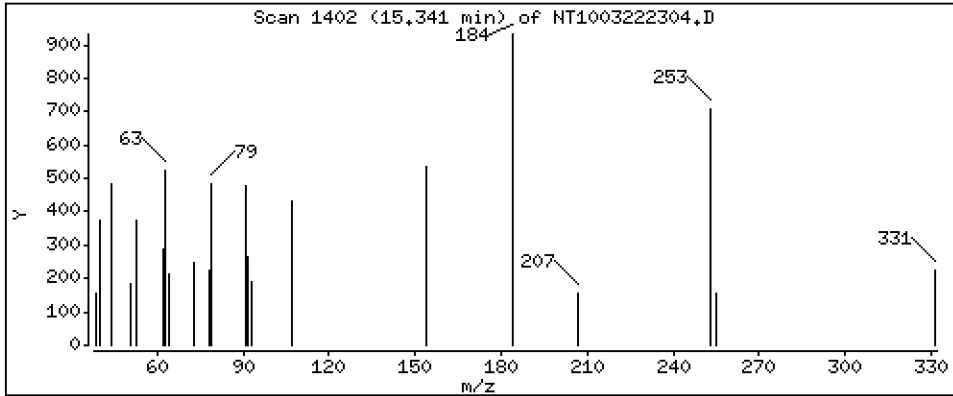
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

45 2,4-Dinitrophenol

Concentration: 0,1555 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

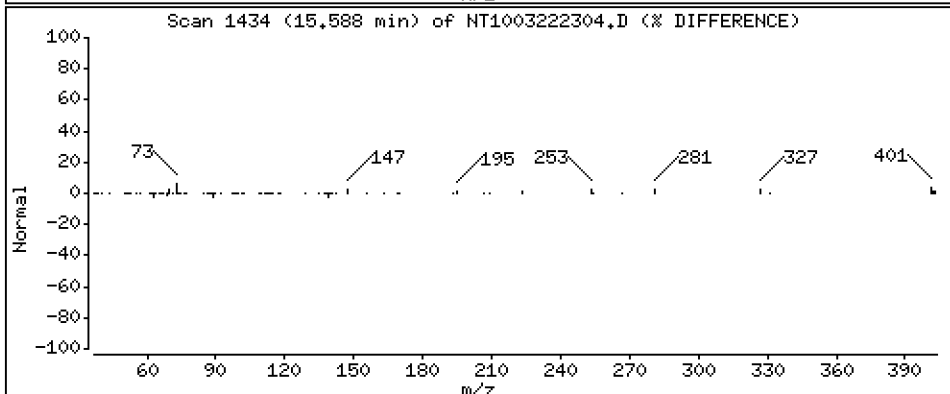
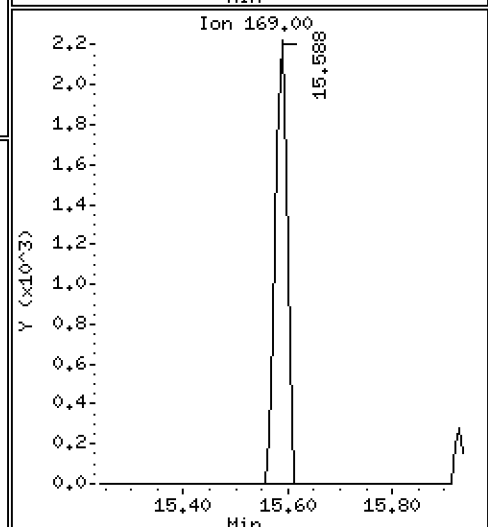
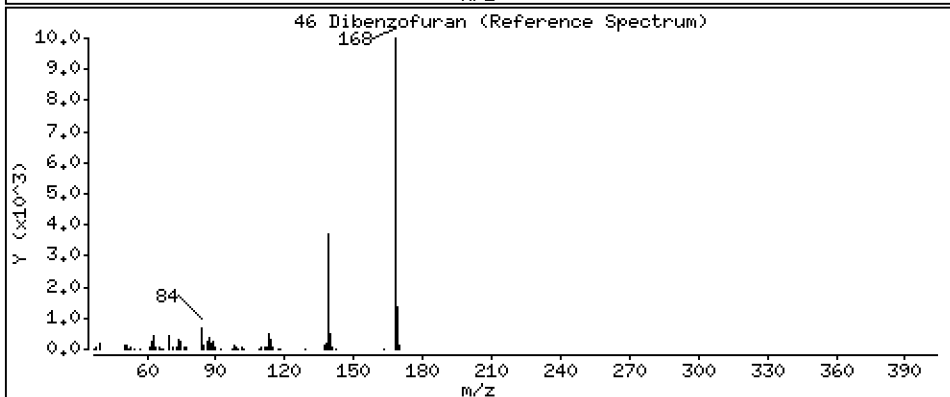
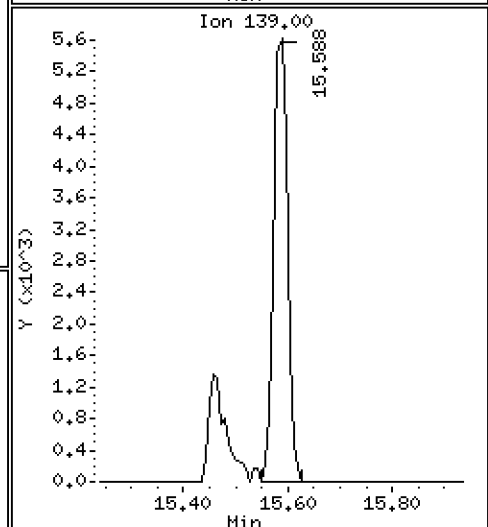
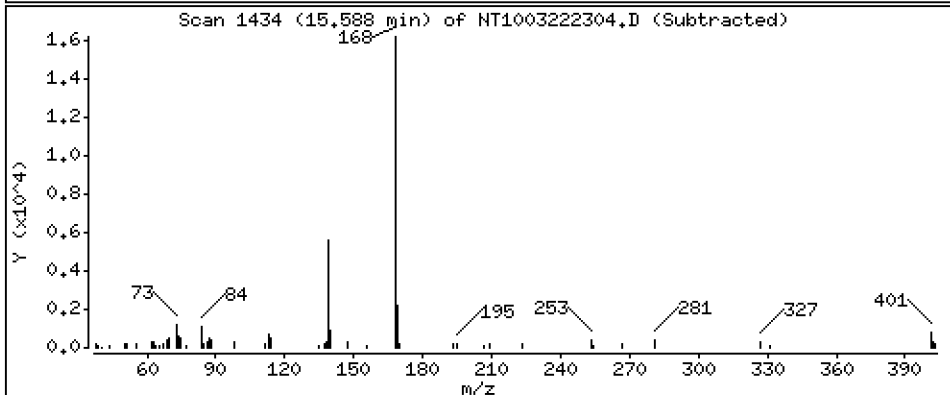
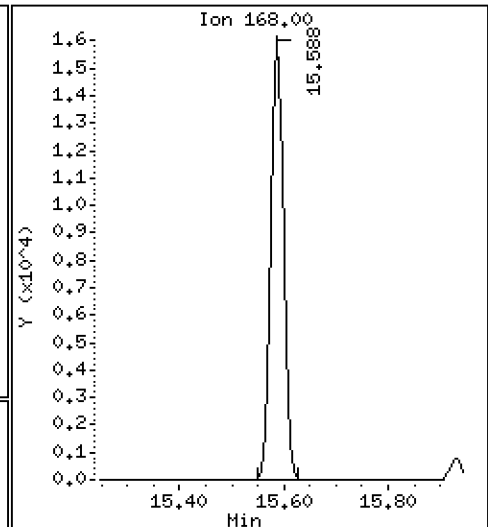
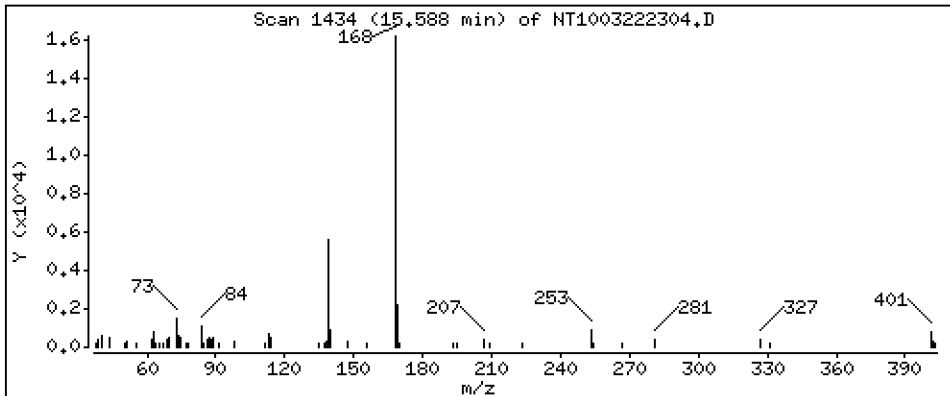
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 0,2034 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

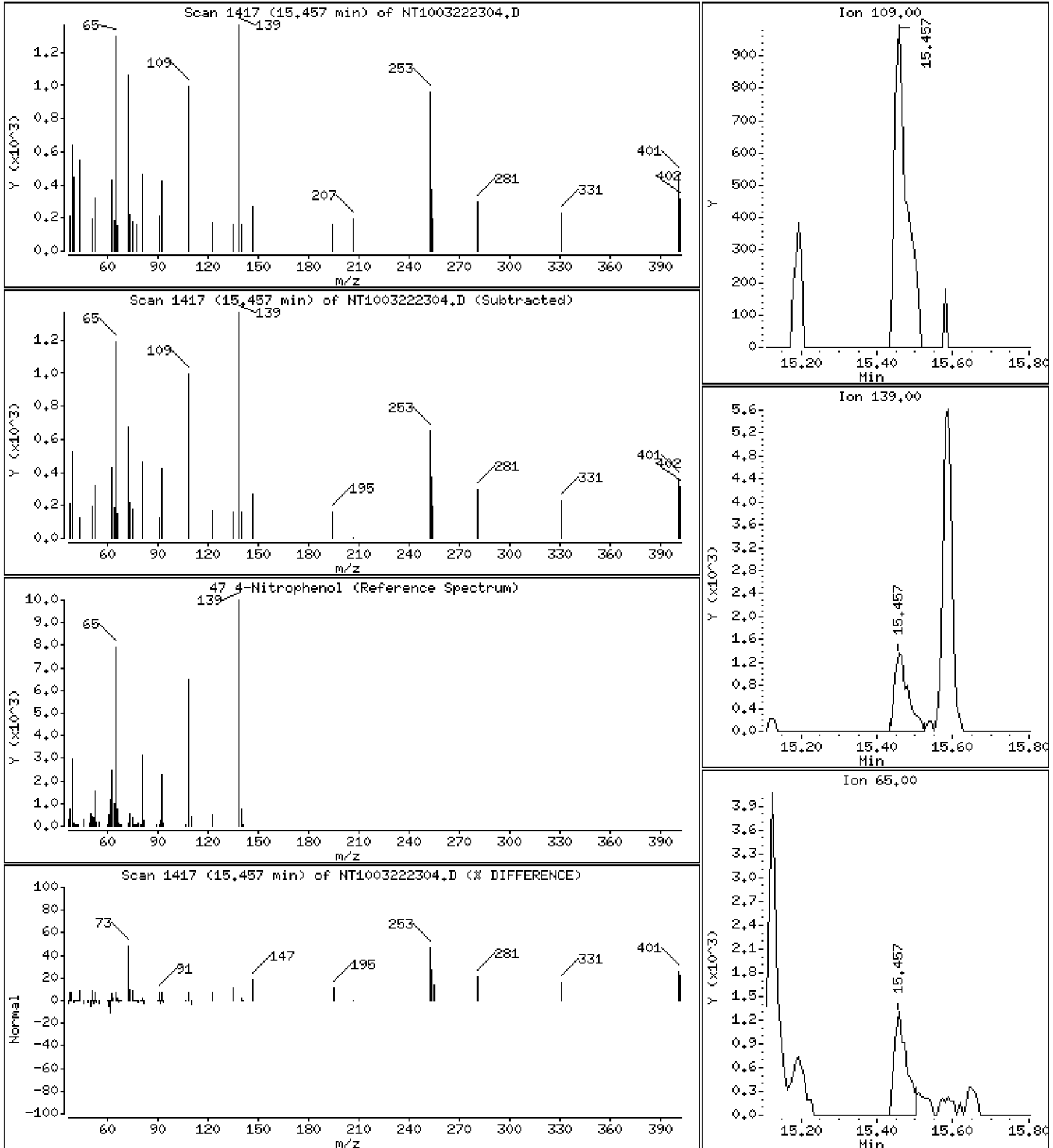
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

47 4-Nitrophenol

Concentration: 0.1585 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

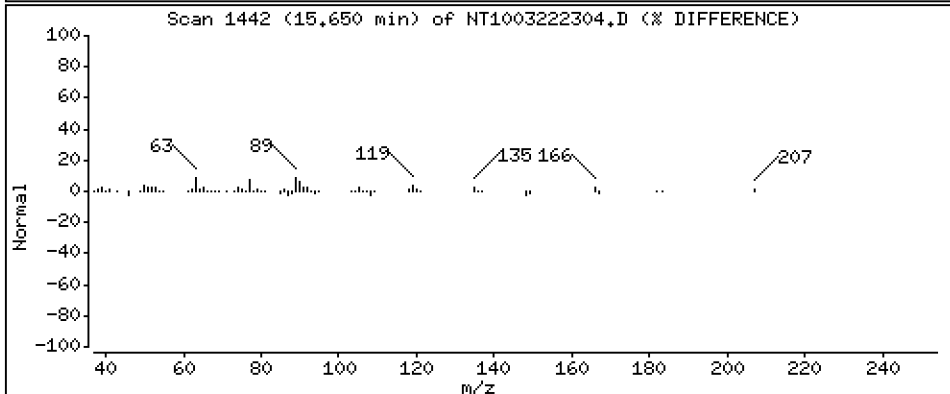
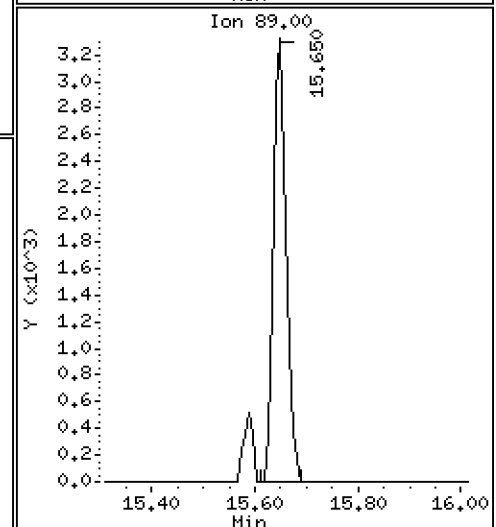
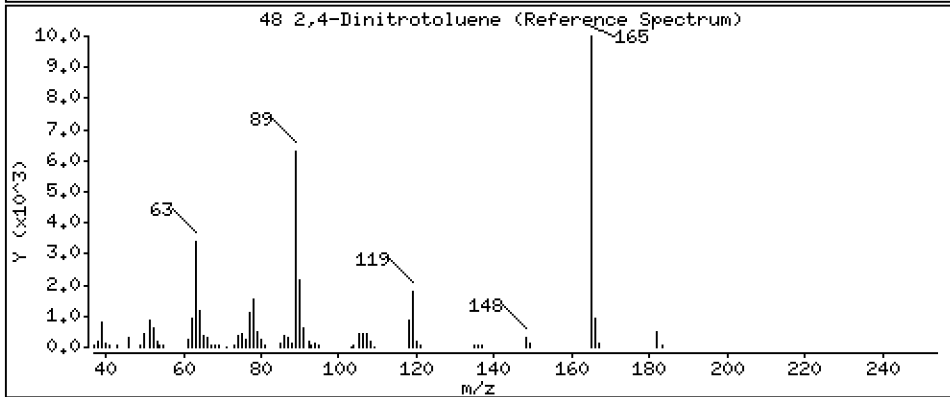
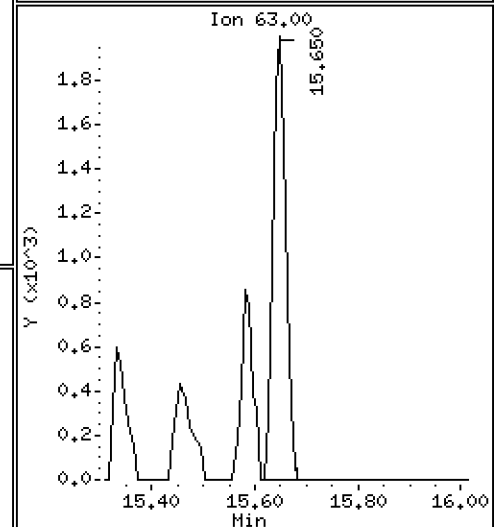
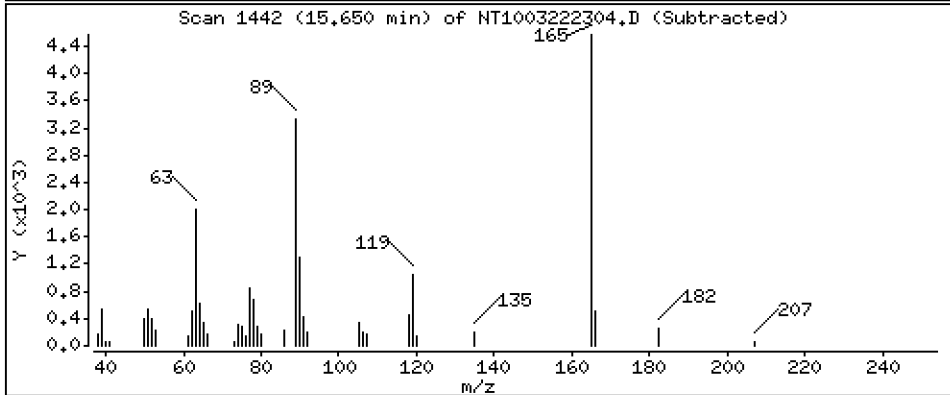
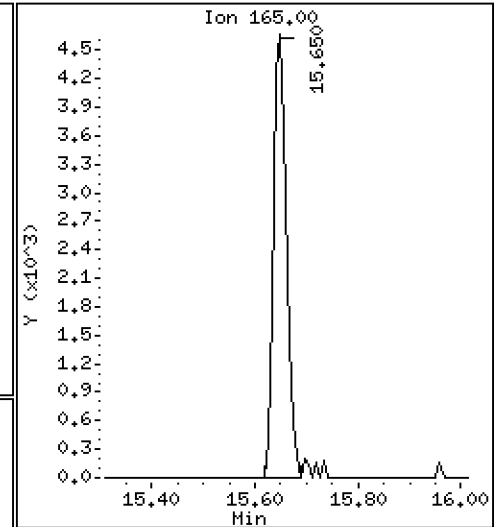
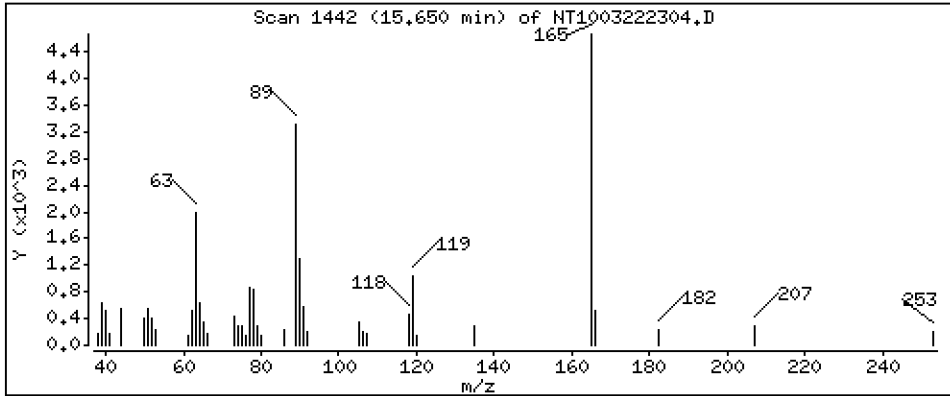
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

48 2,4-Dinitrotoluene

Concentration: 0,2693 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

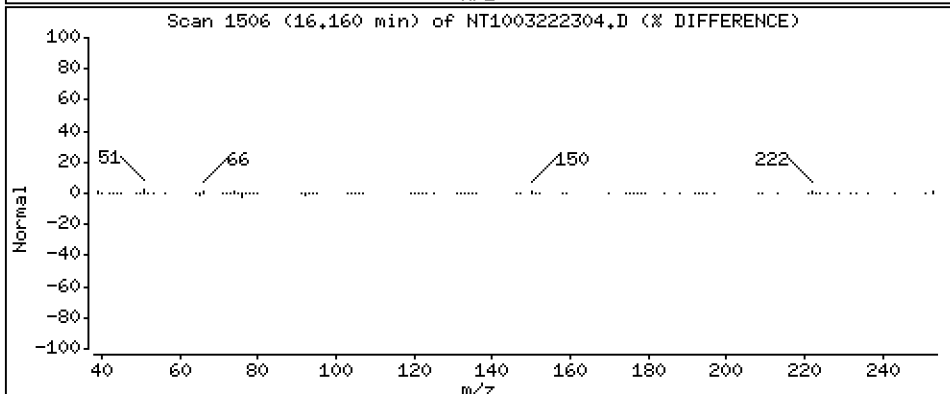
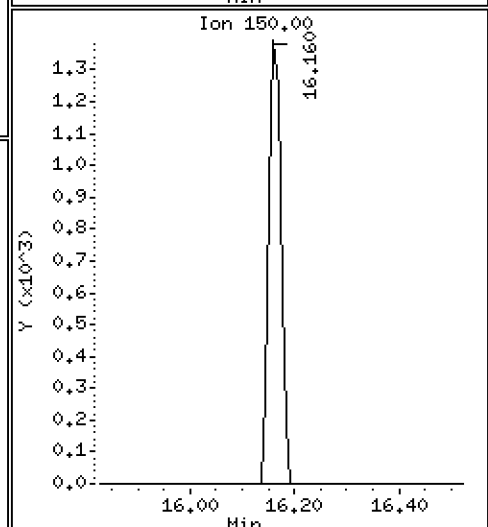
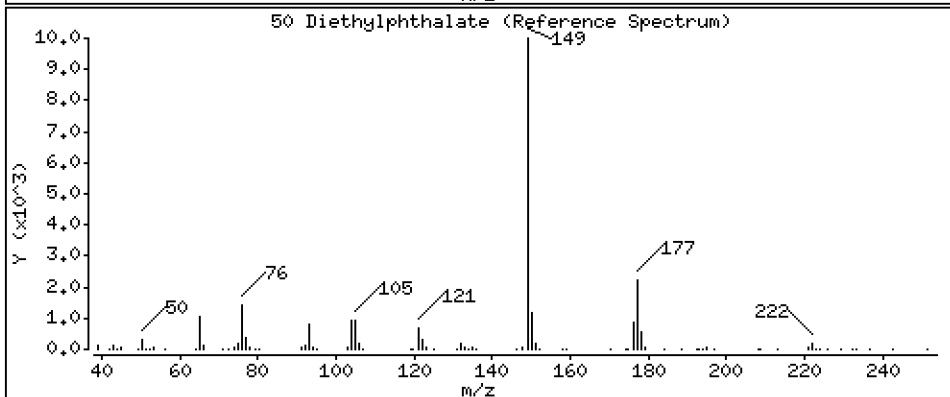
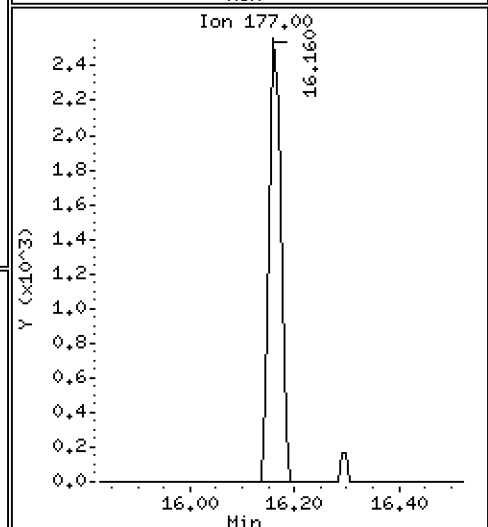
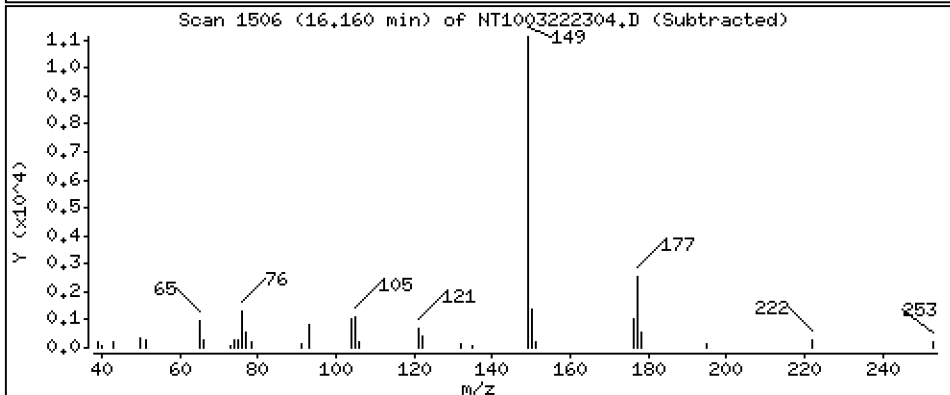
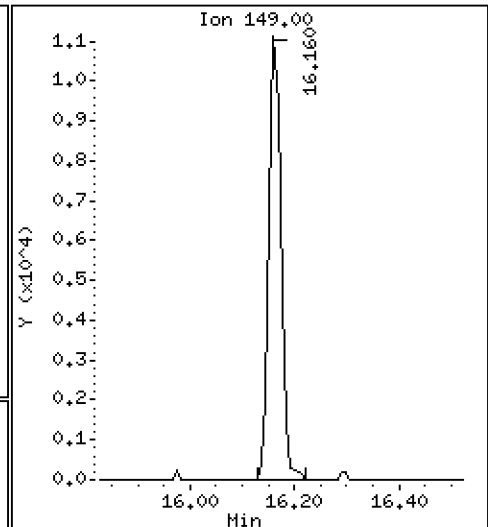
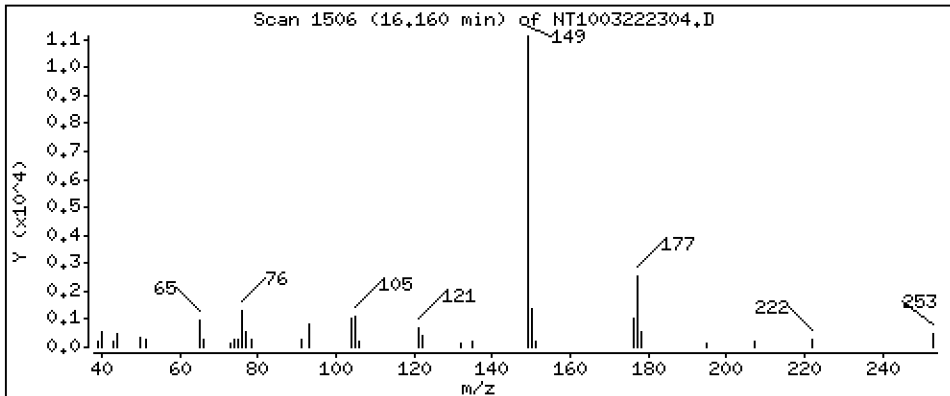
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 0,2293 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

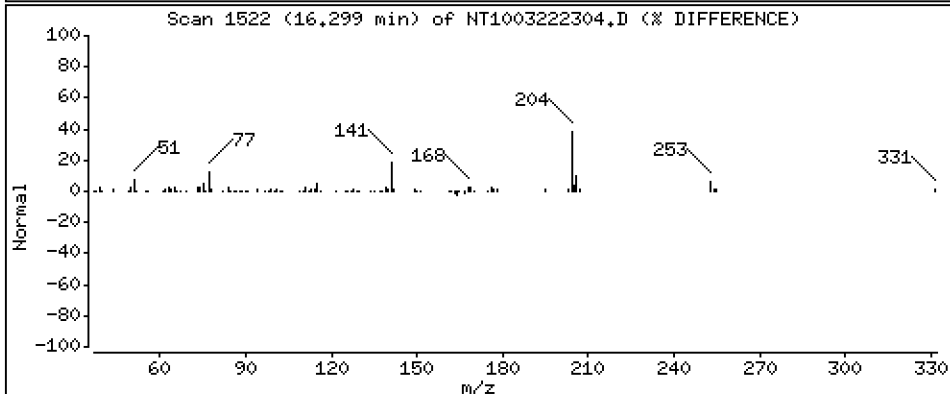
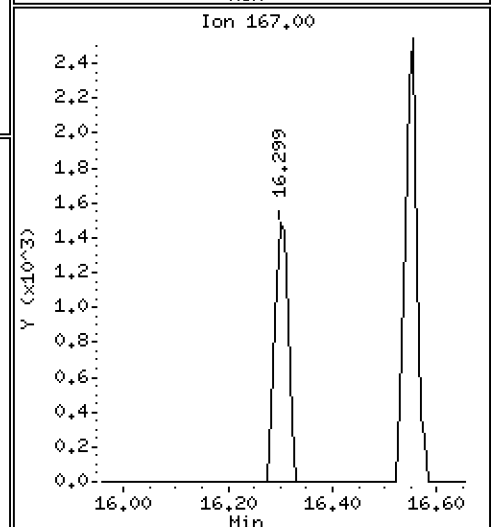
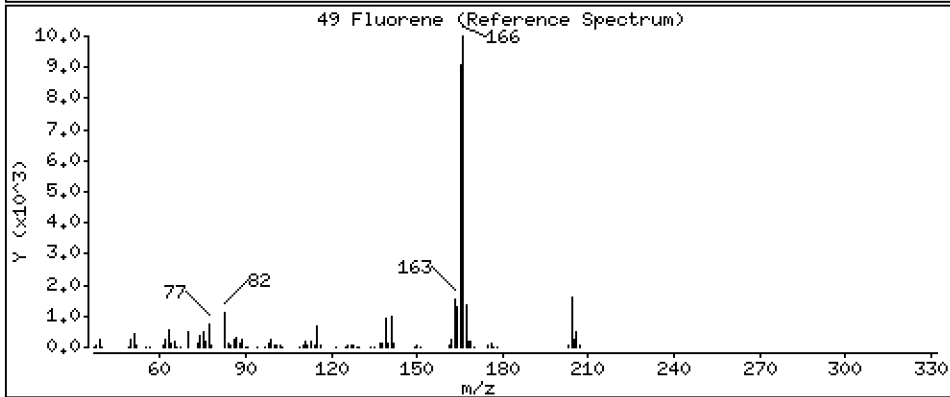
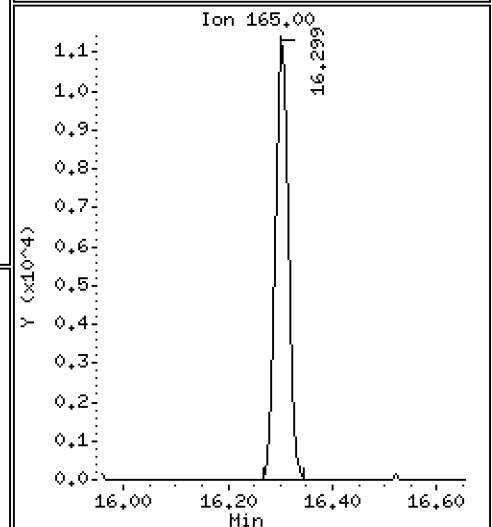
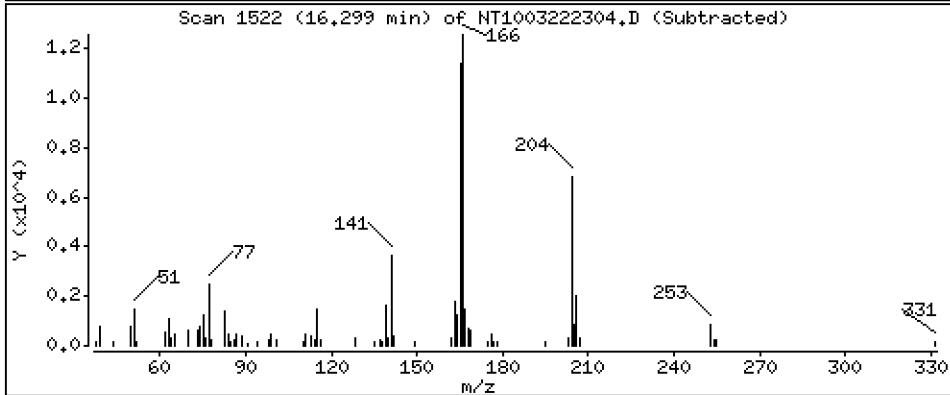
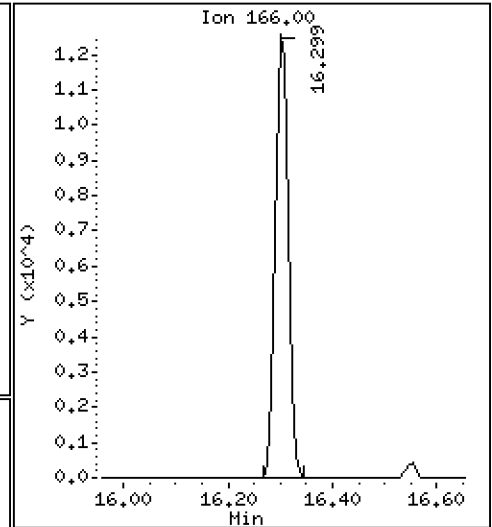
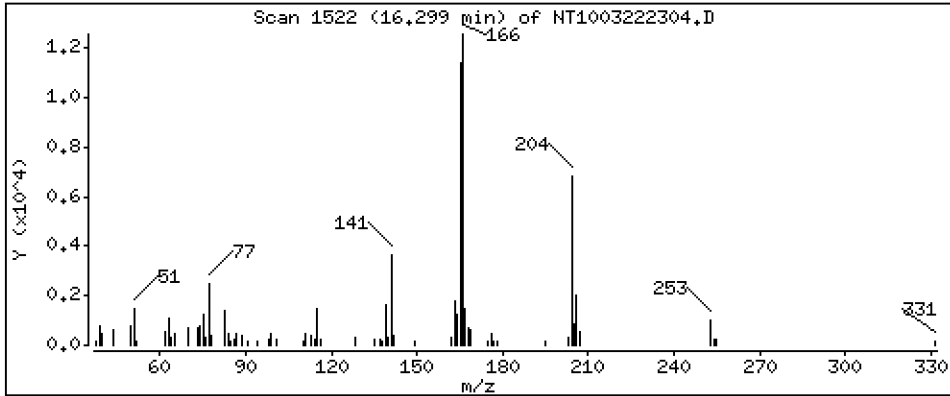
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 0,2106 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

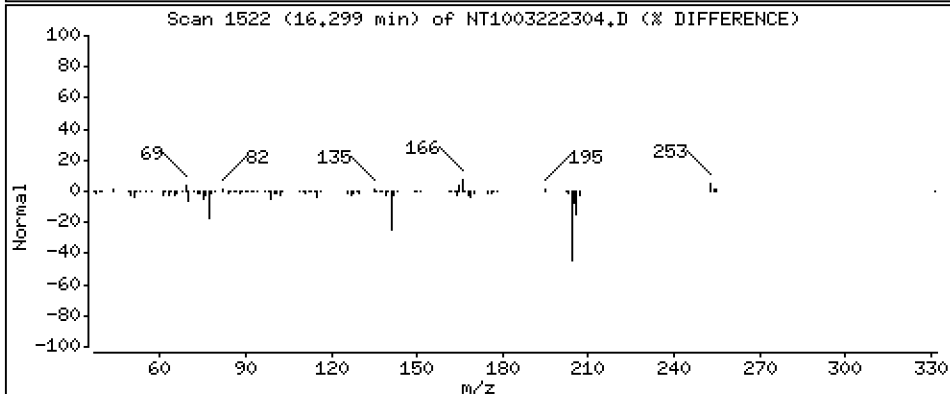
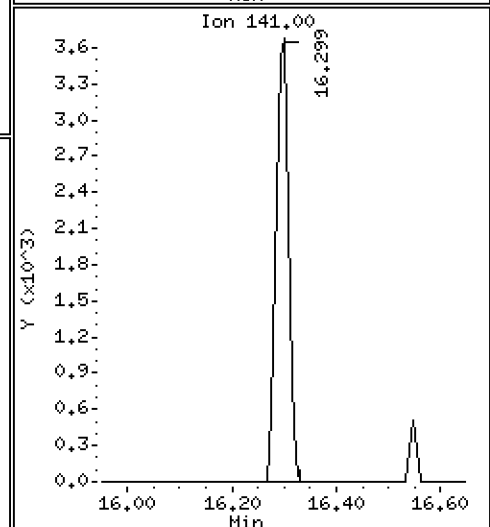
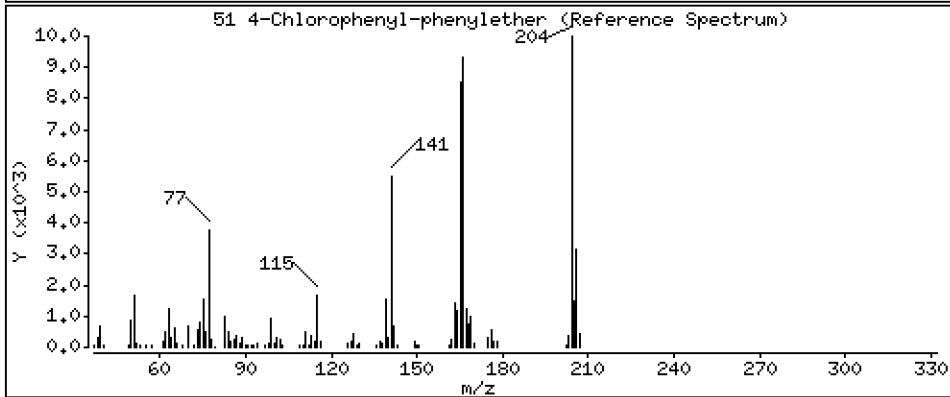
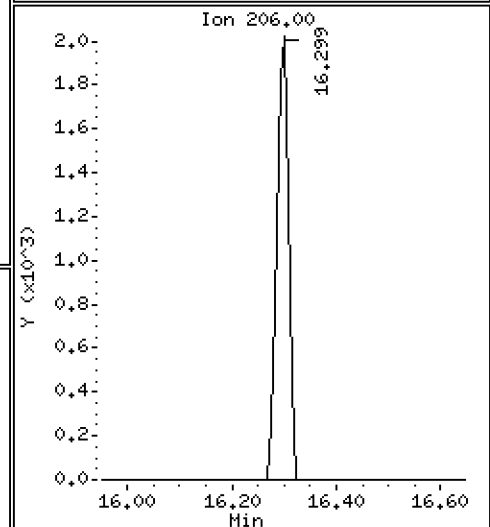
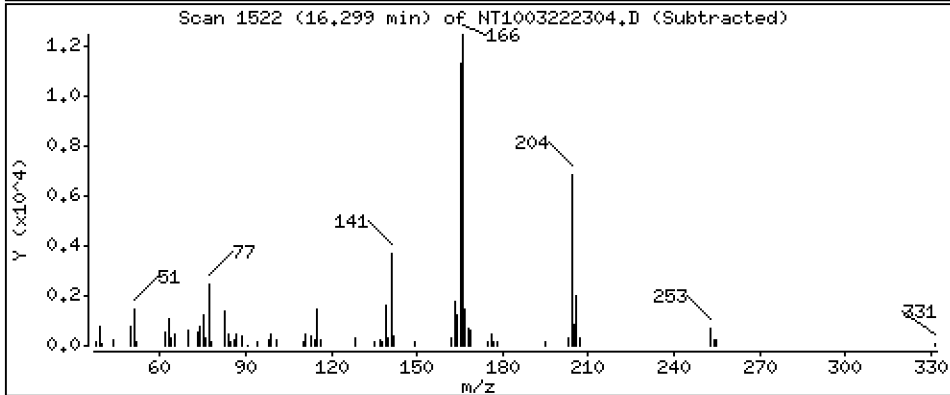
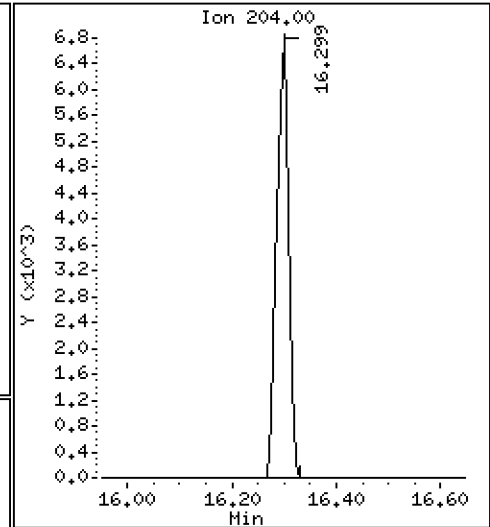
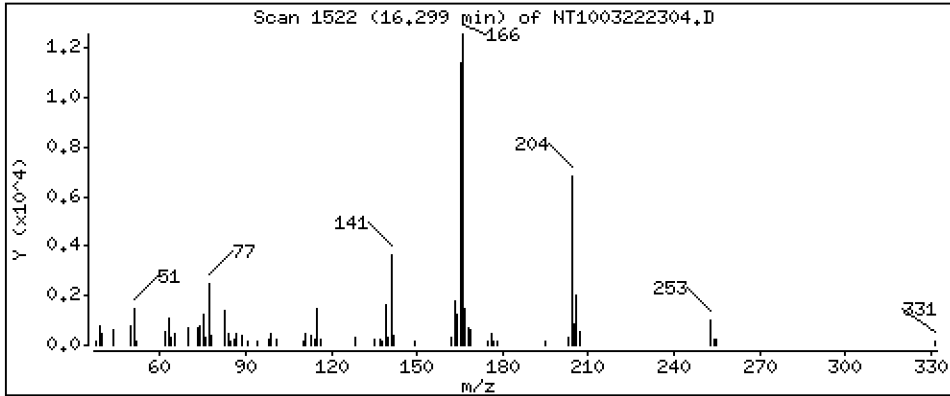
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 0,2215 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

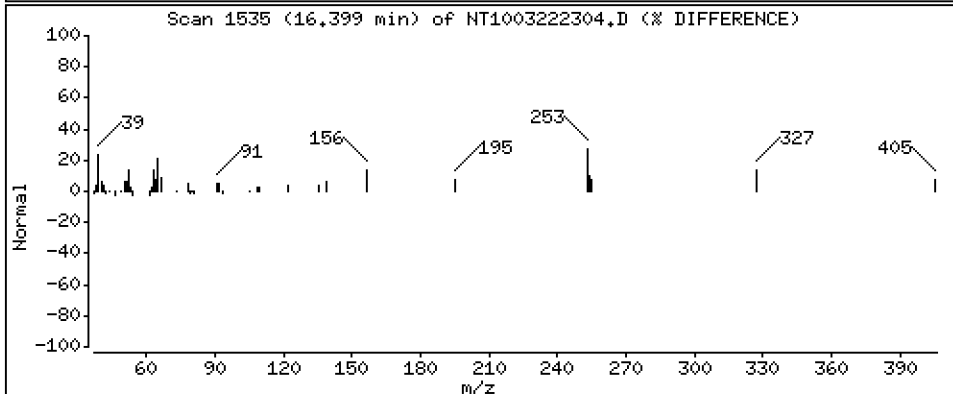
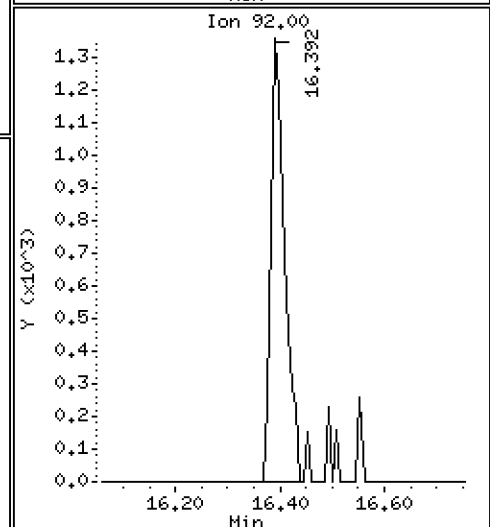
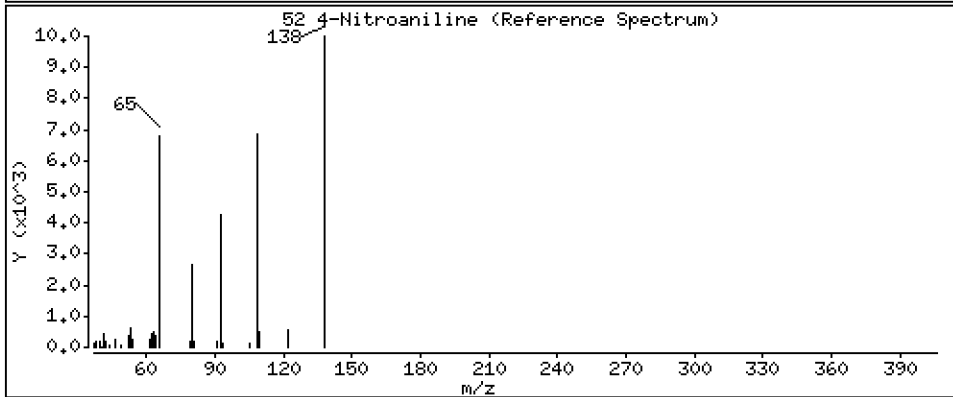
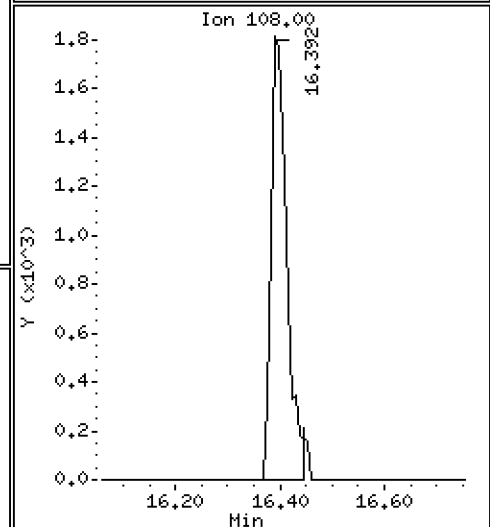
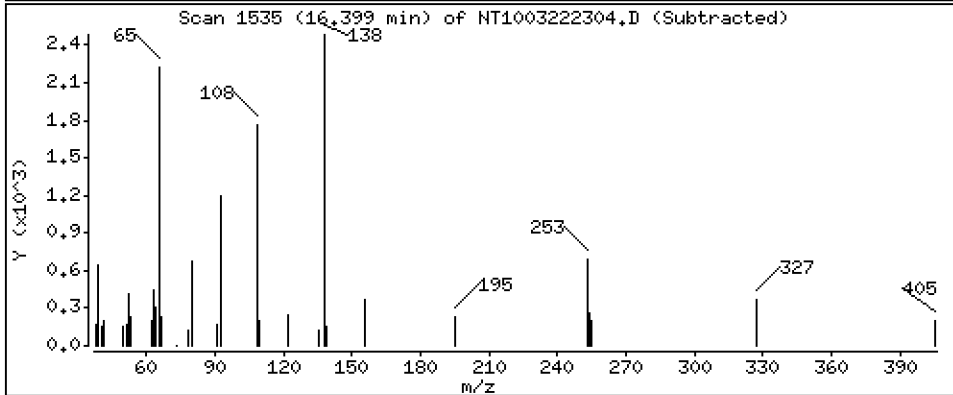
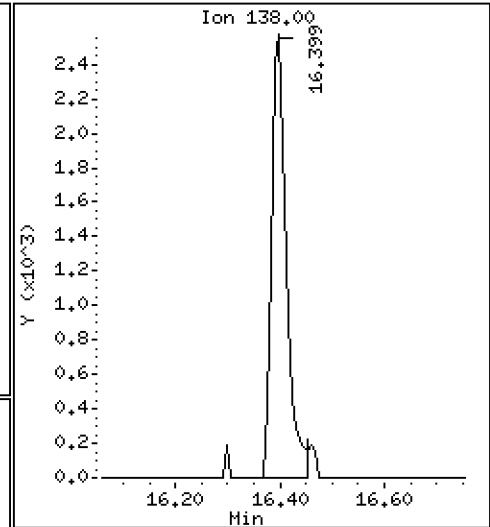
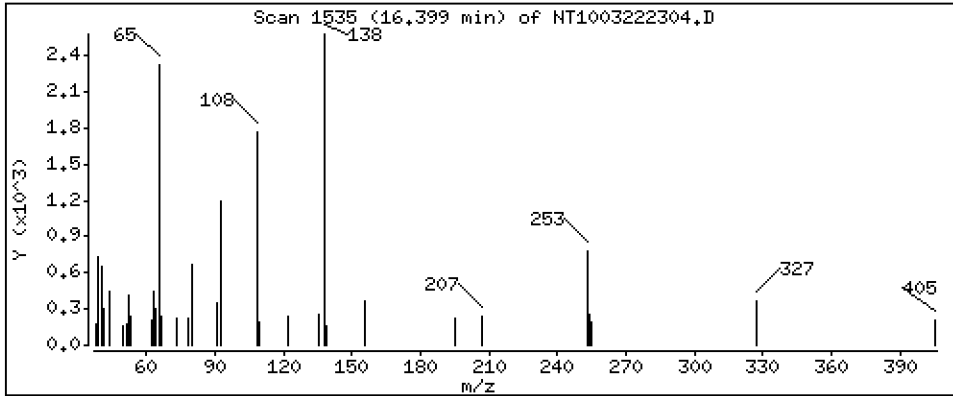
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

52 4-Nitroaniline

Concentration: 0,2456 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

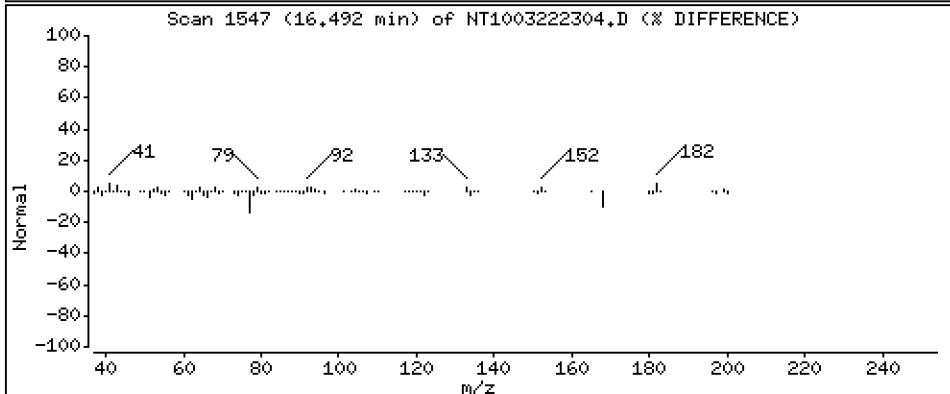
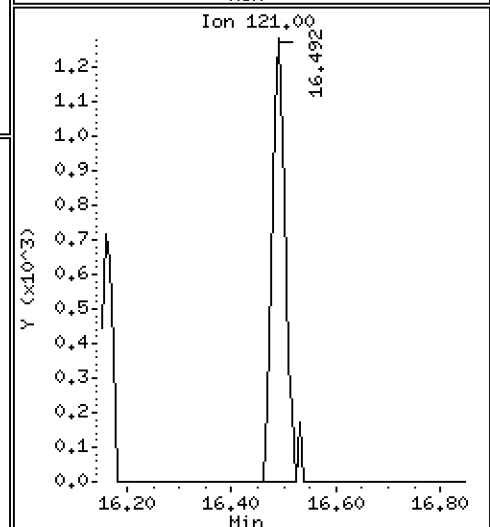
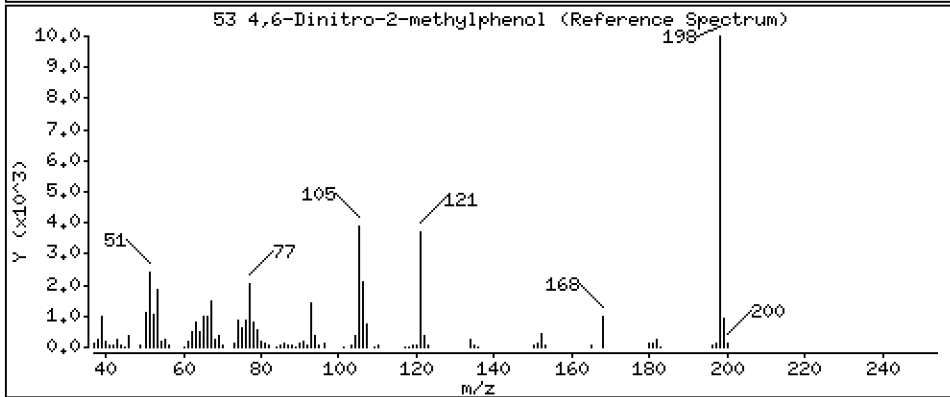
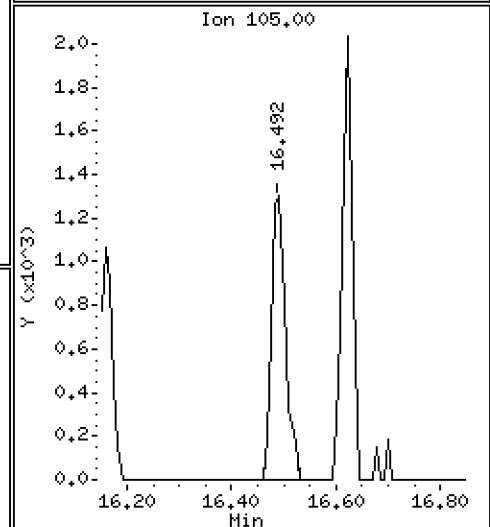
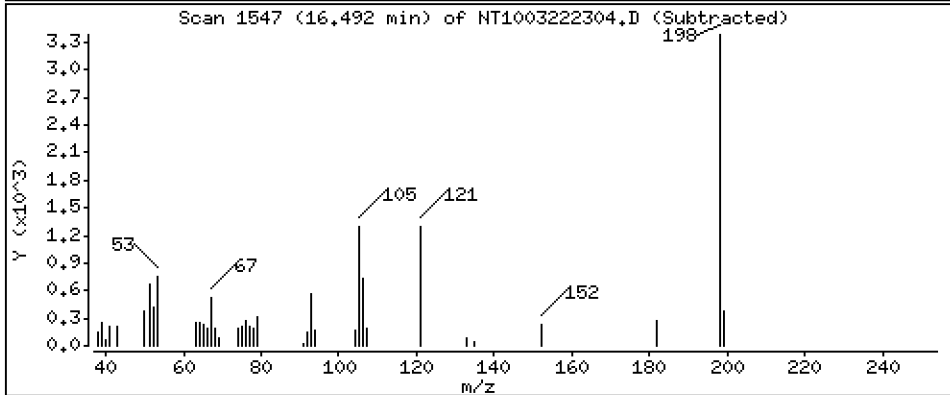
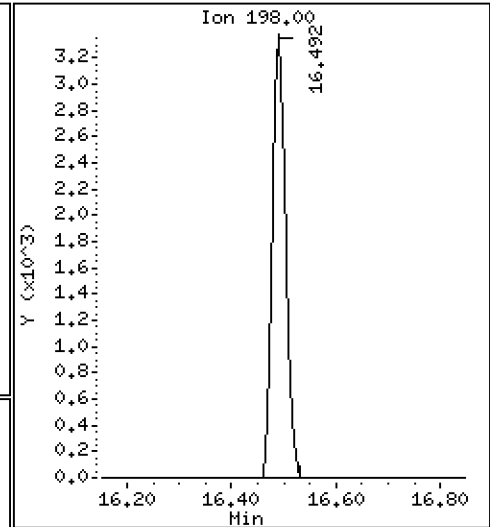
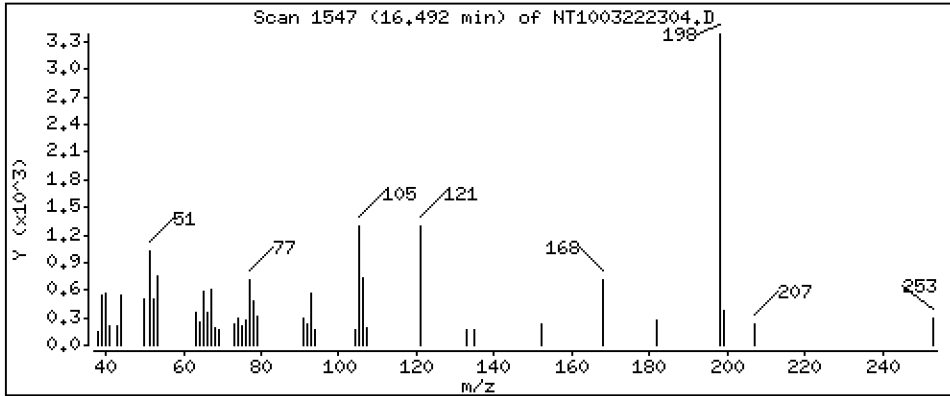
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

53 4,6-Dinitro-2-methylphenol

Concentration: 0.3731 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

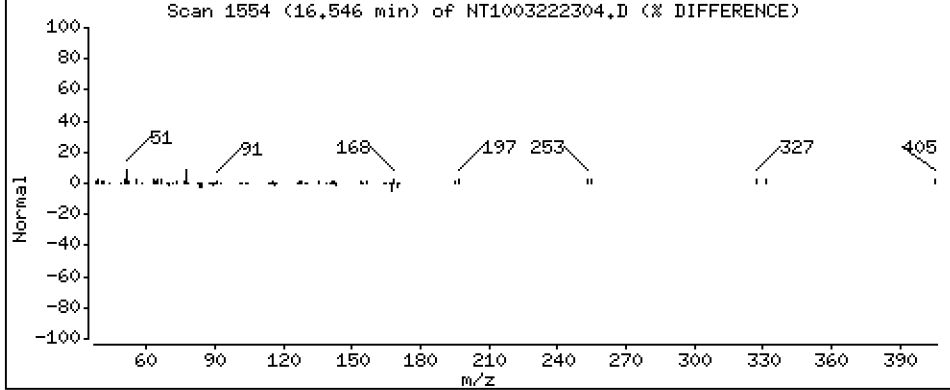
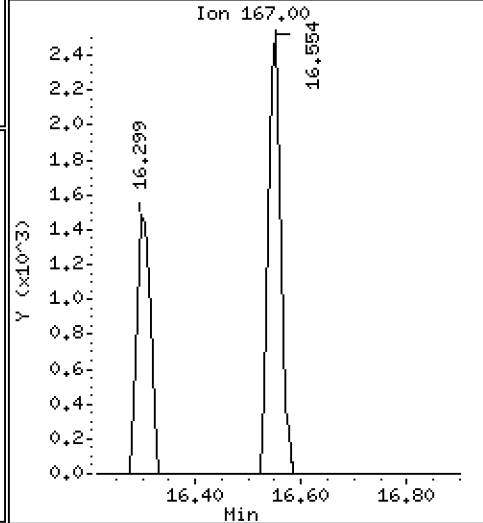
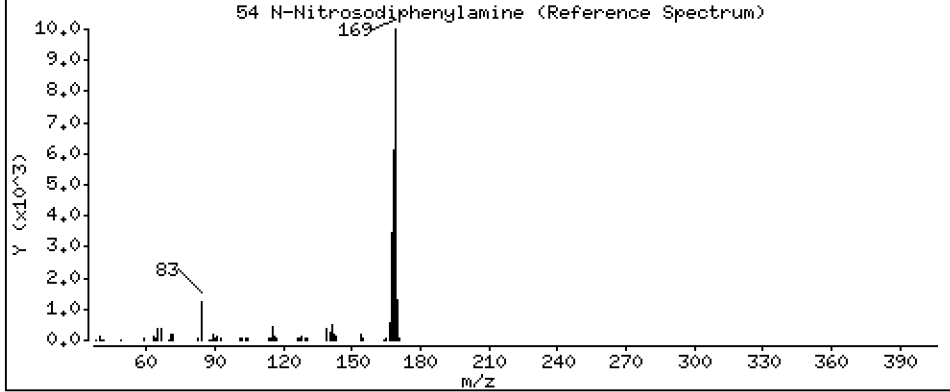
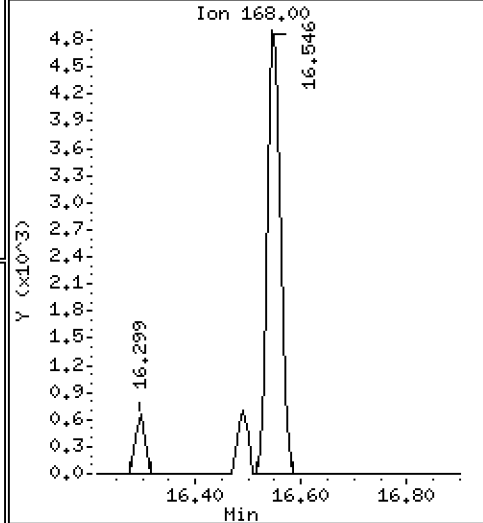
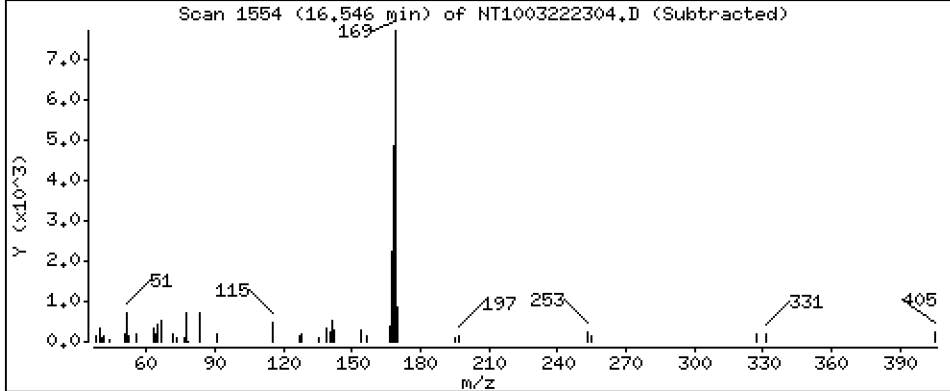
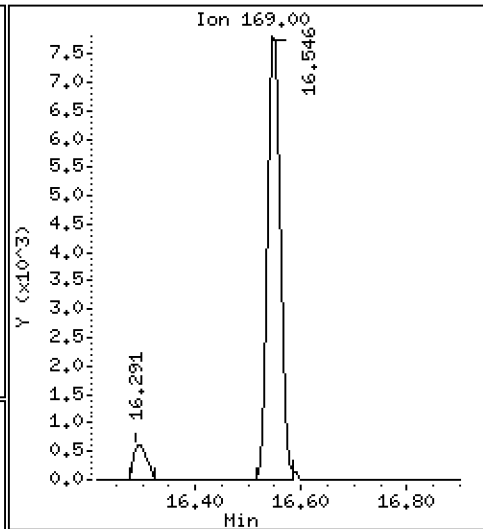
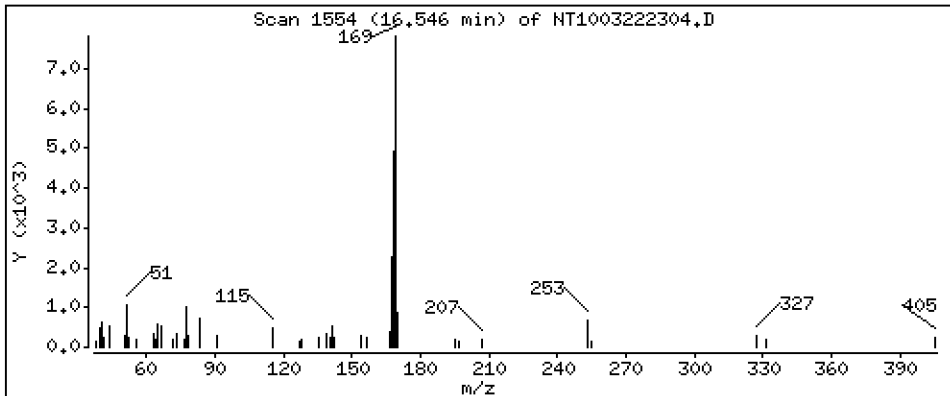
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

54 N-Nitrosodiphenylamine

Concentration: 0.1918 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

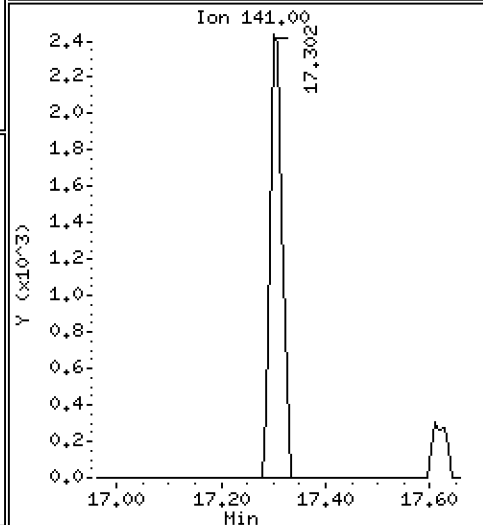
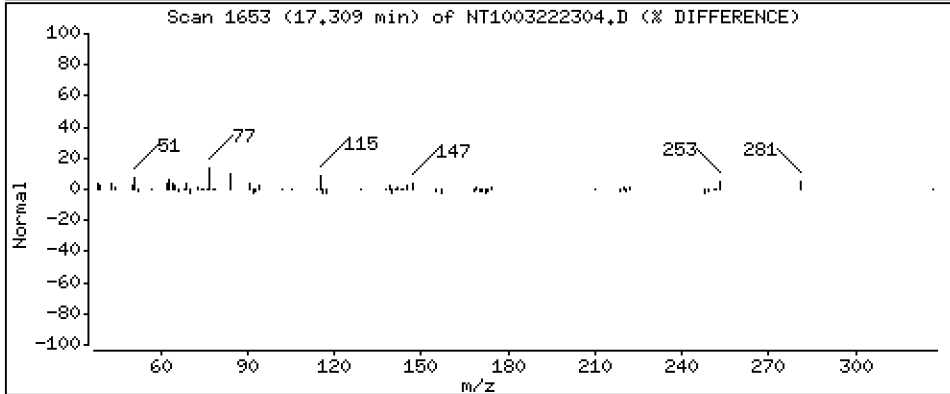
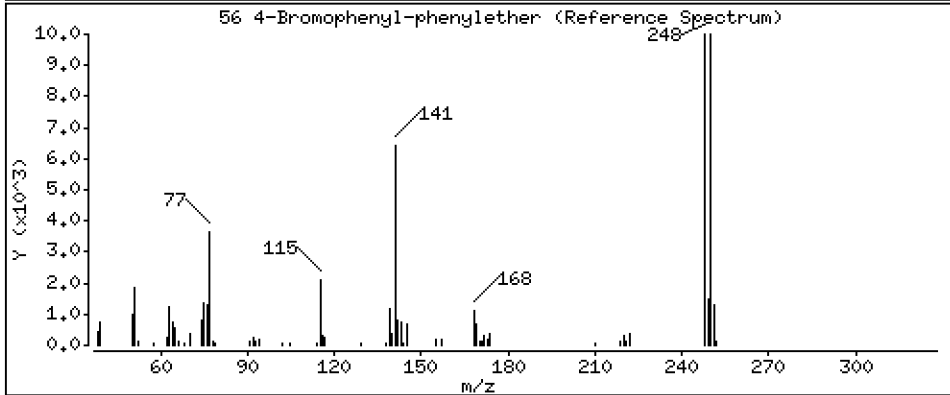
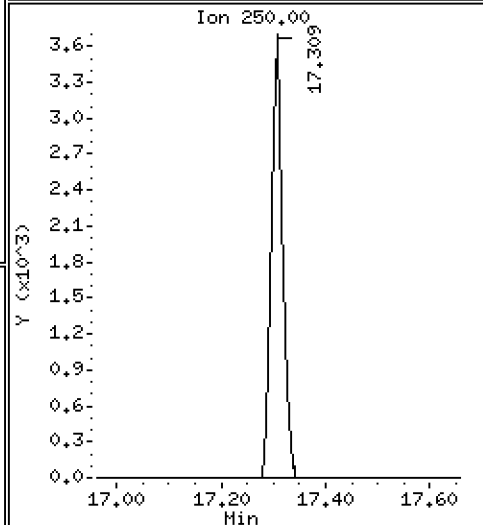
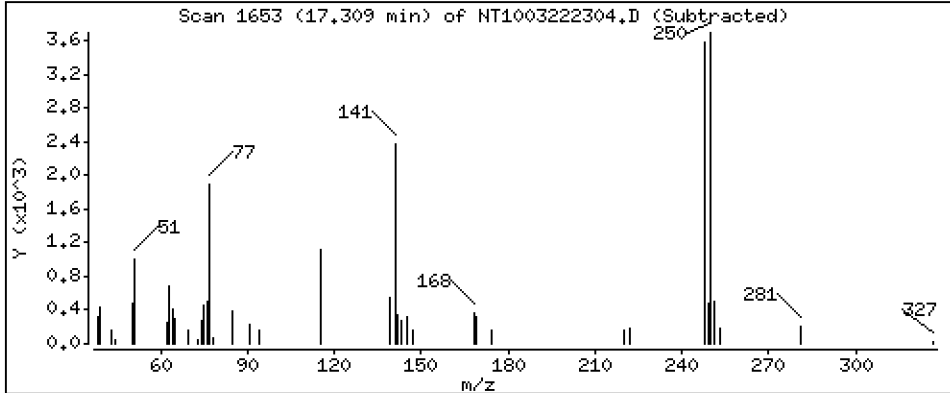
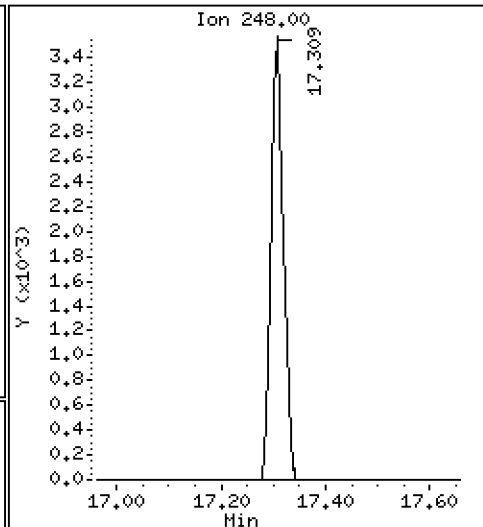
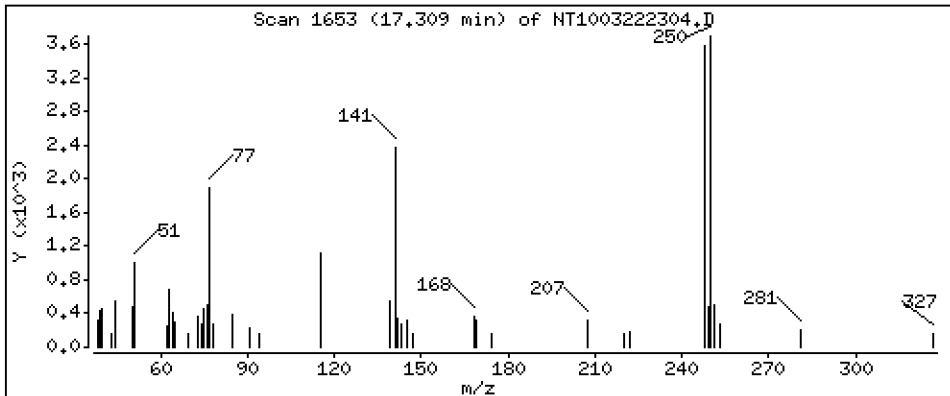
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 0,2055 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

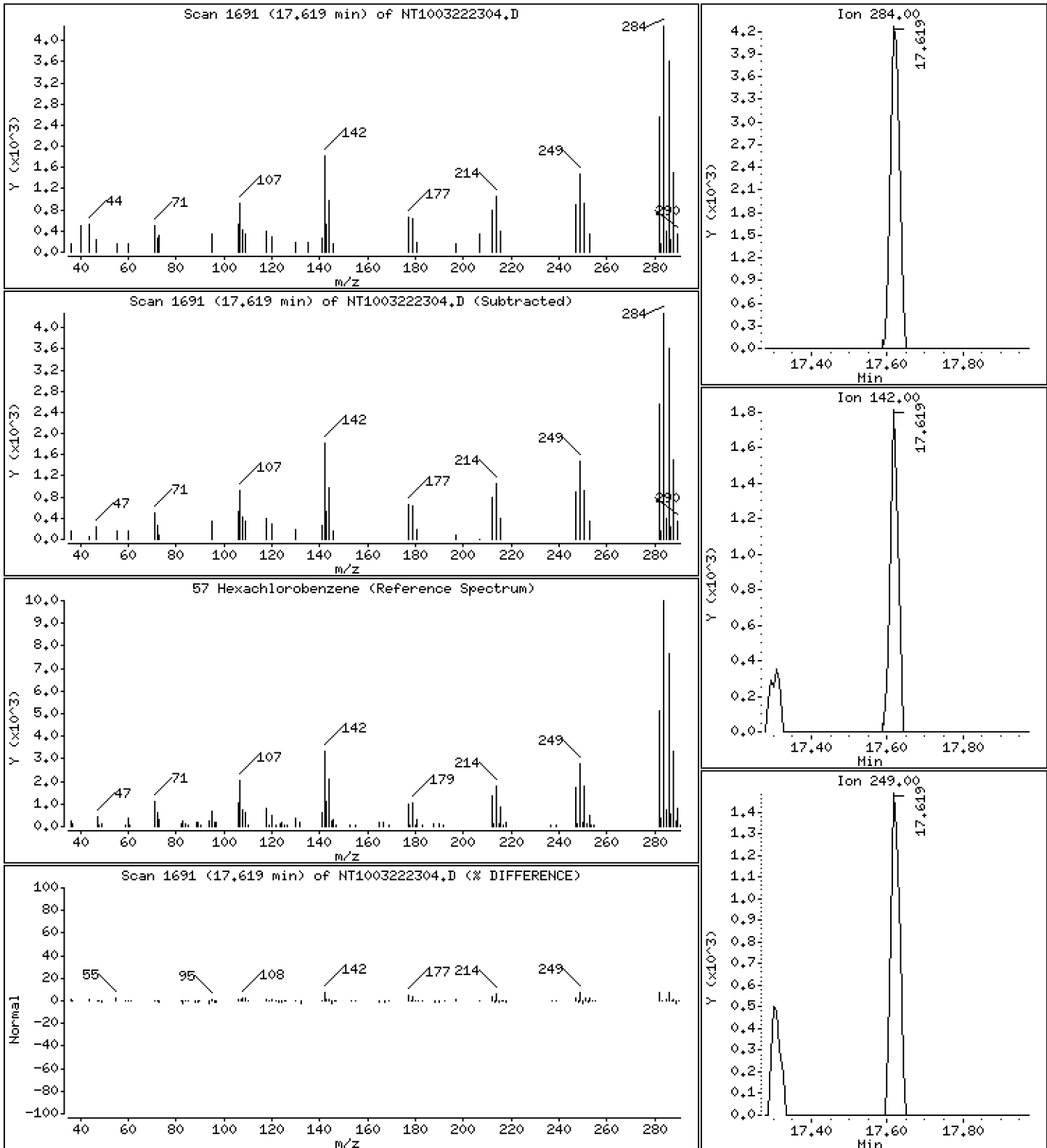
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

57 Hexachlorobenzene

Concentration: 0,2361 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

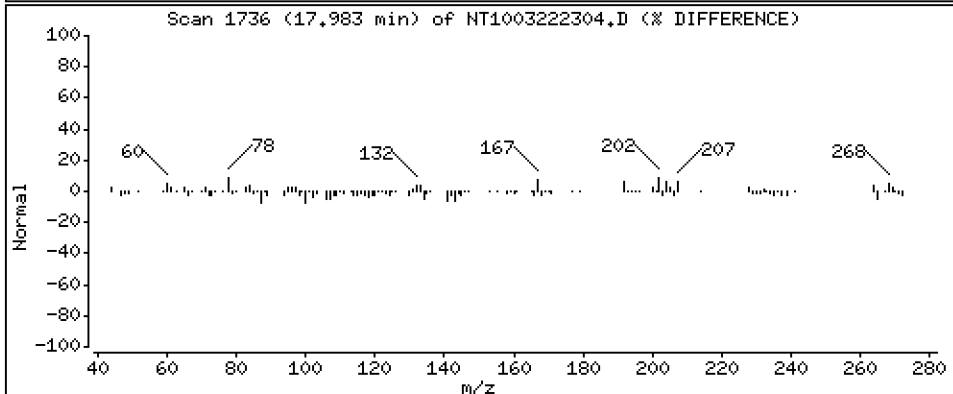
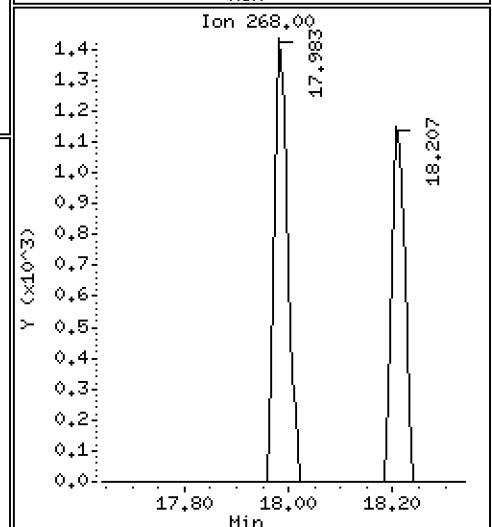
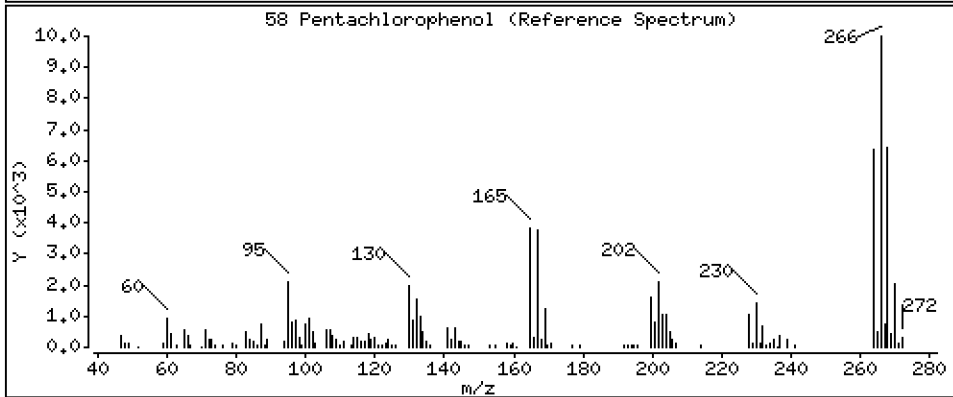
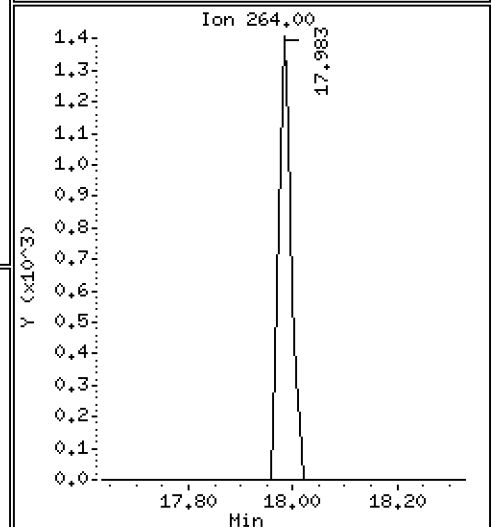
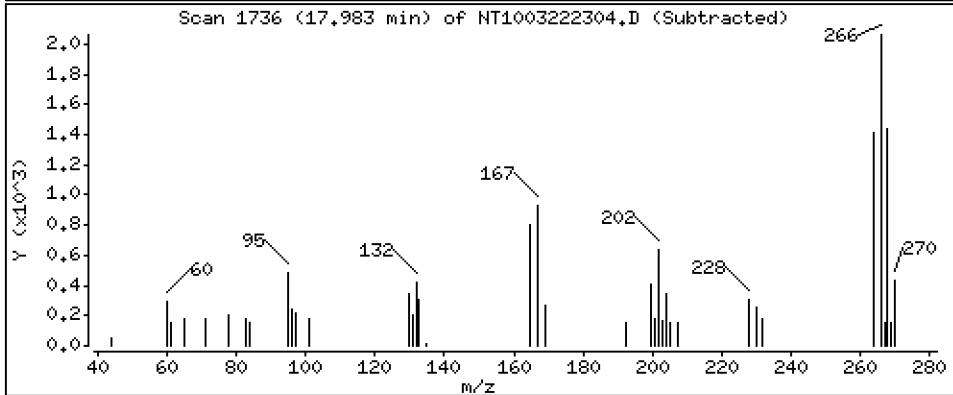
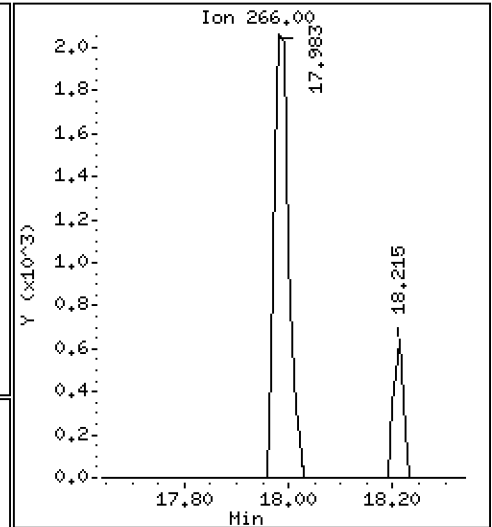
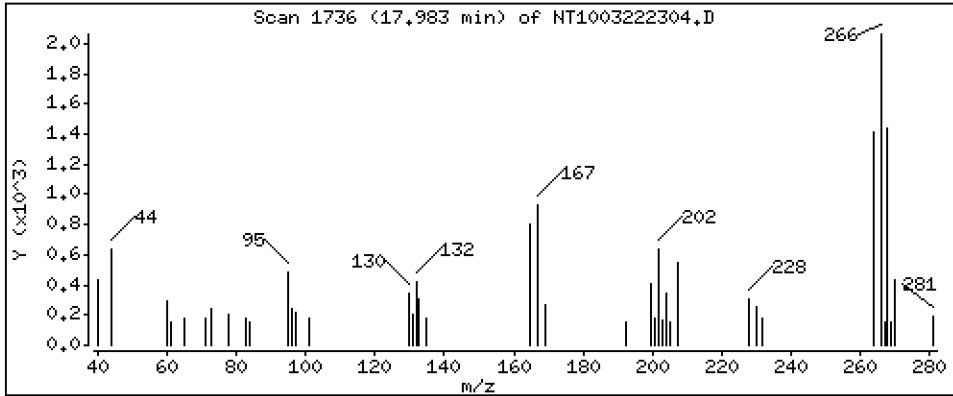
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 0,2209 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

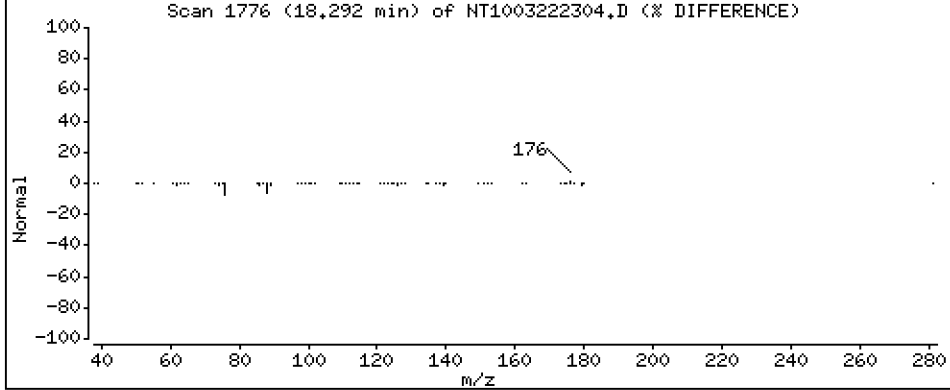
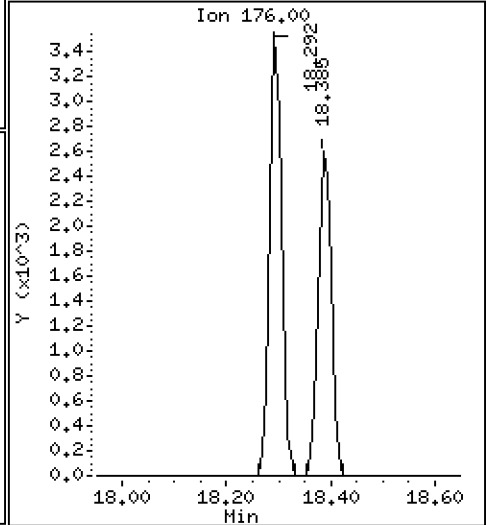
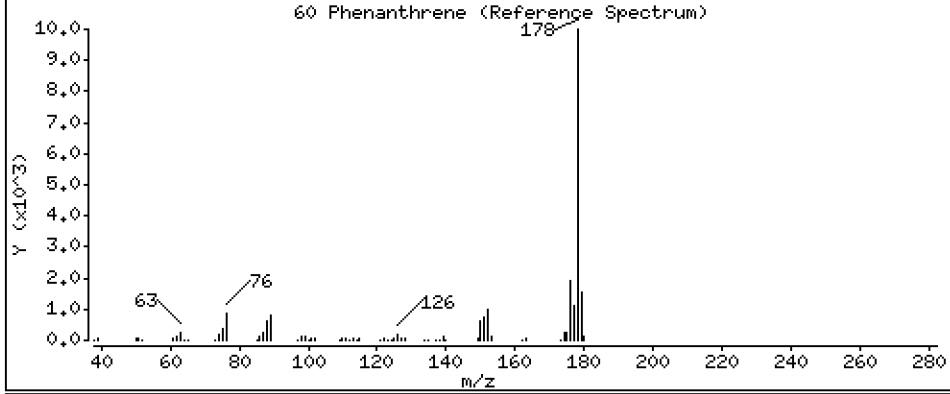
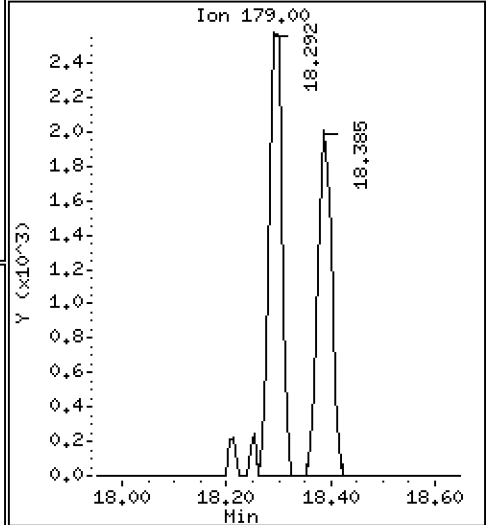
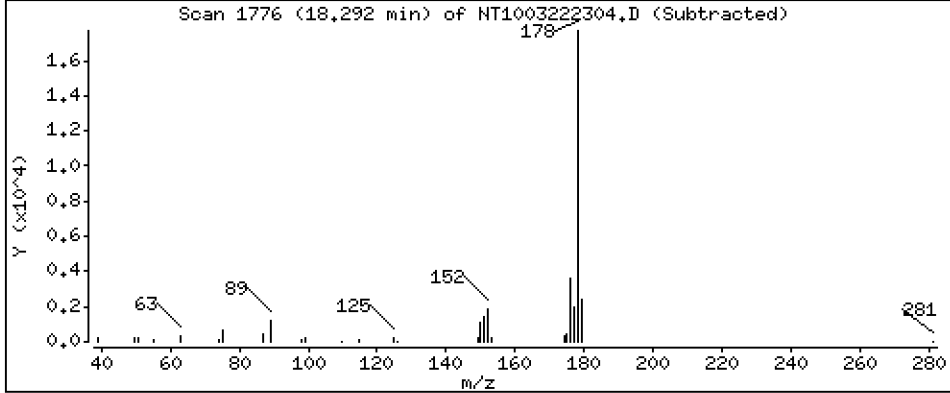
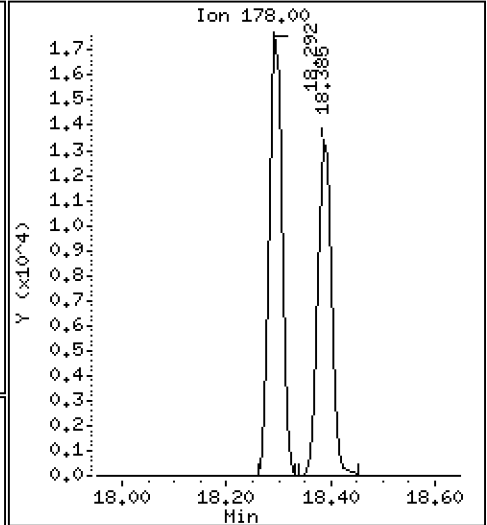
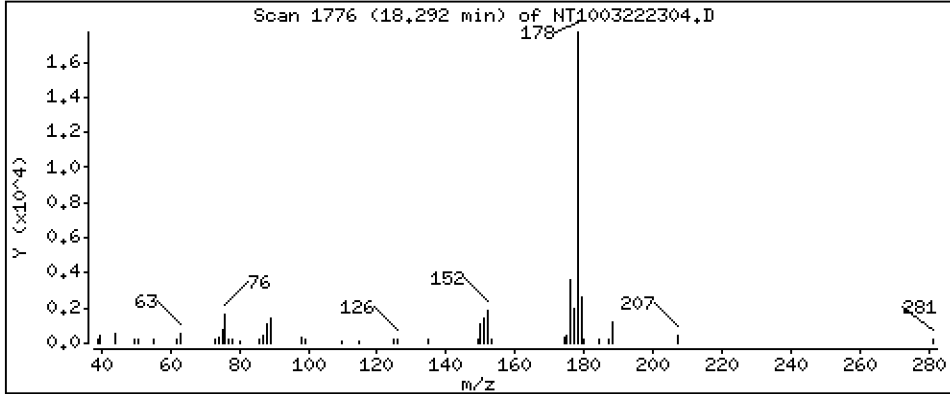
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

60 Phenanthrene

Concentration: 0.2068 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

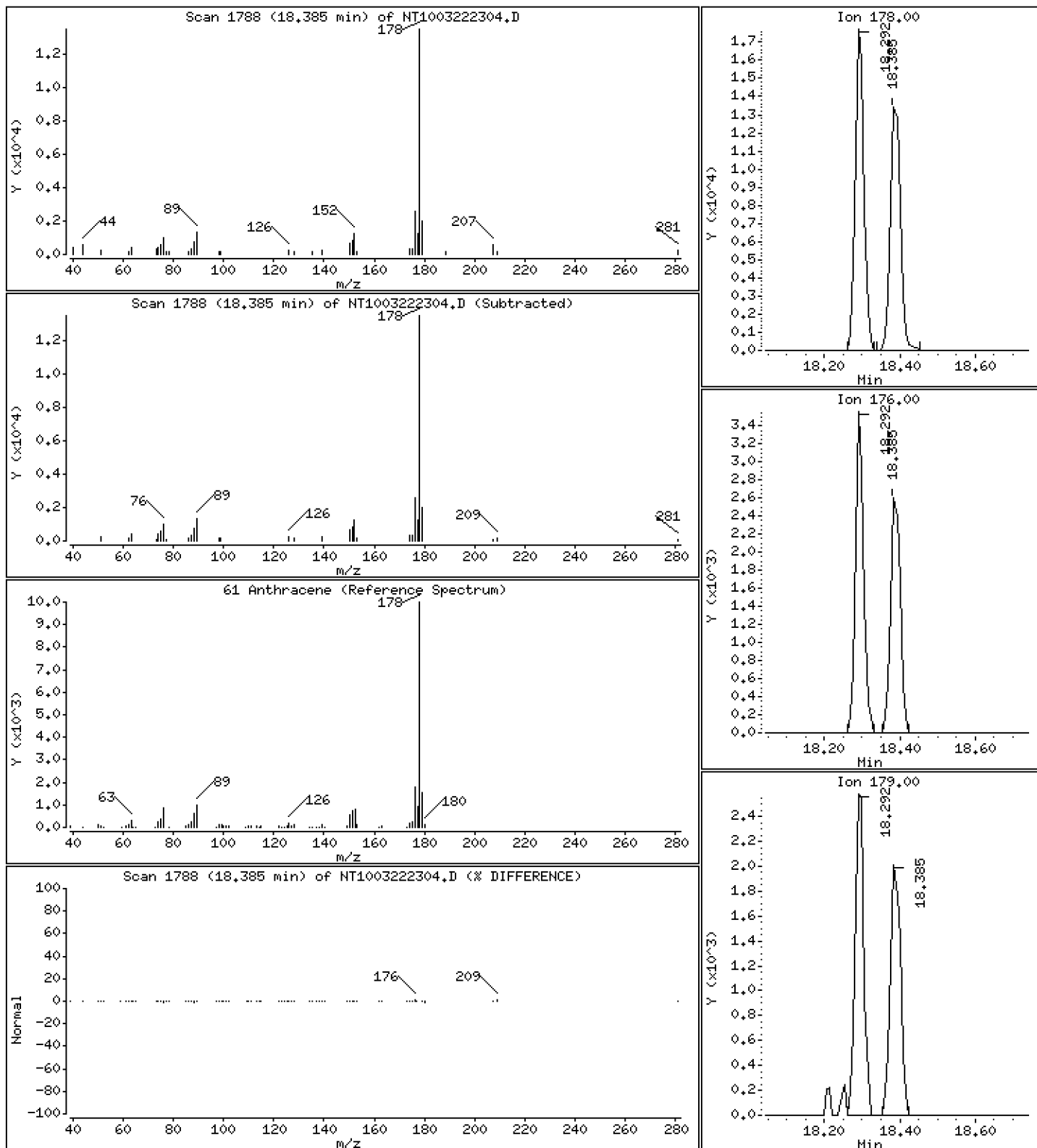
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 0,1820 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

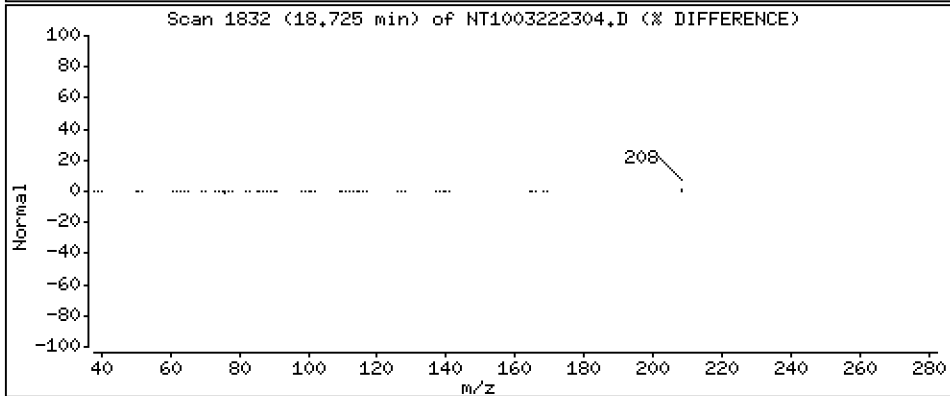
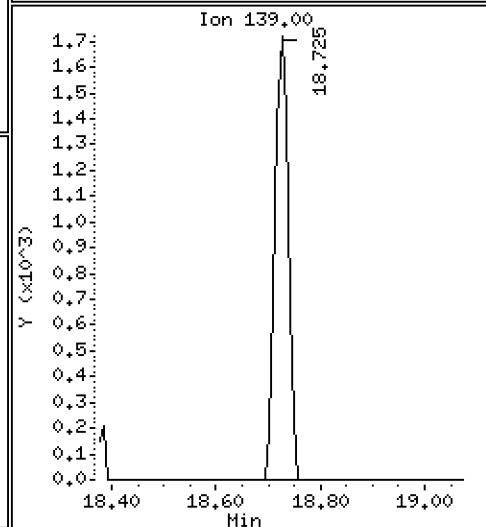
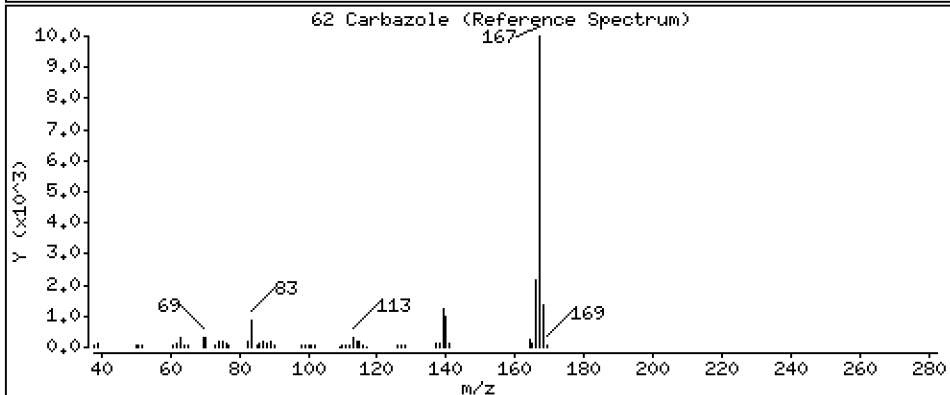
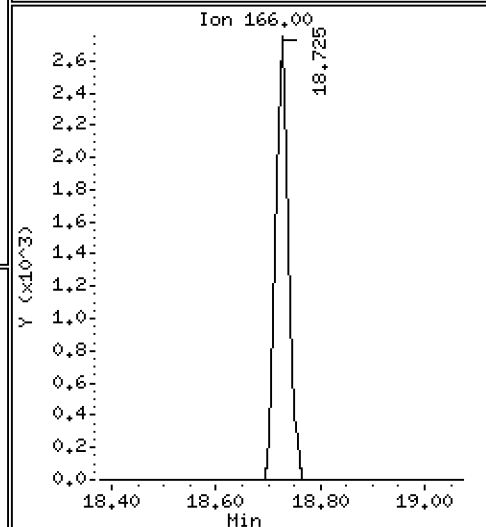
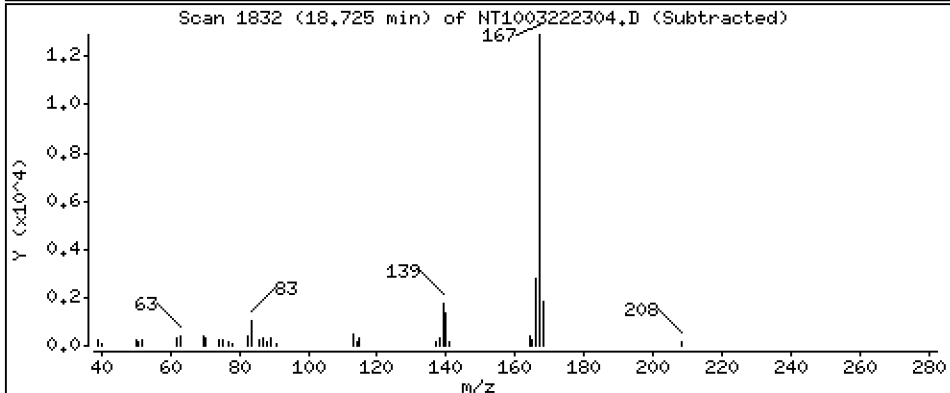
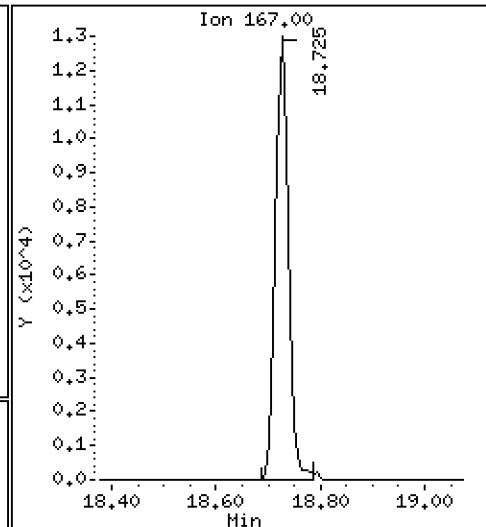
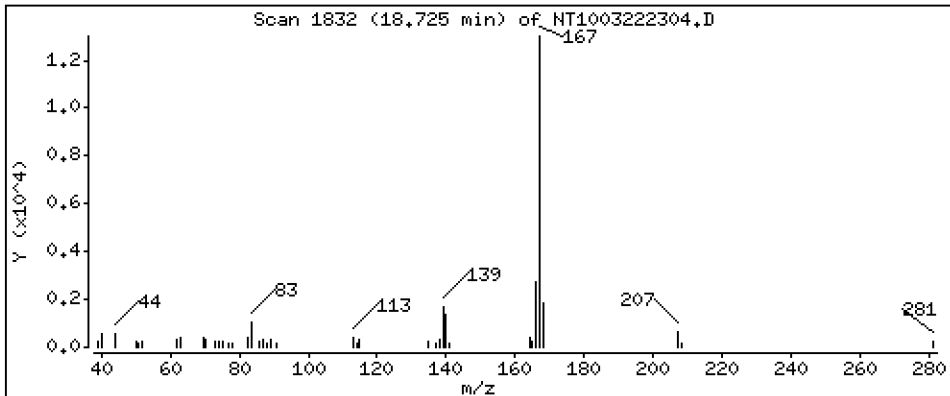
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 0,1832 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

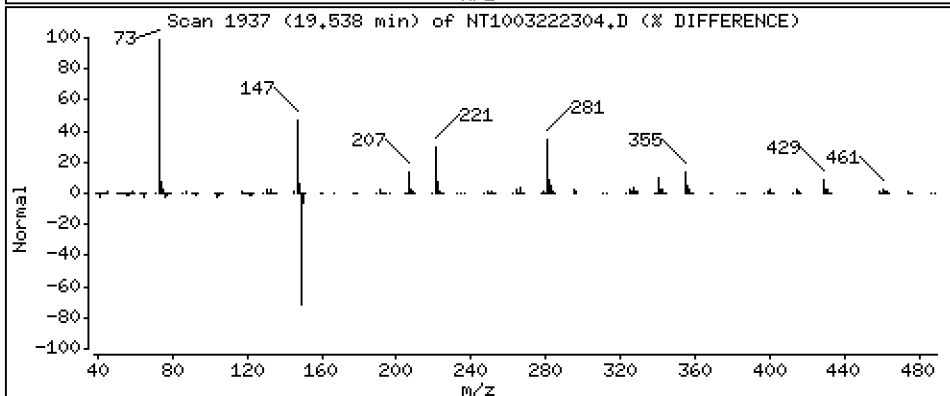
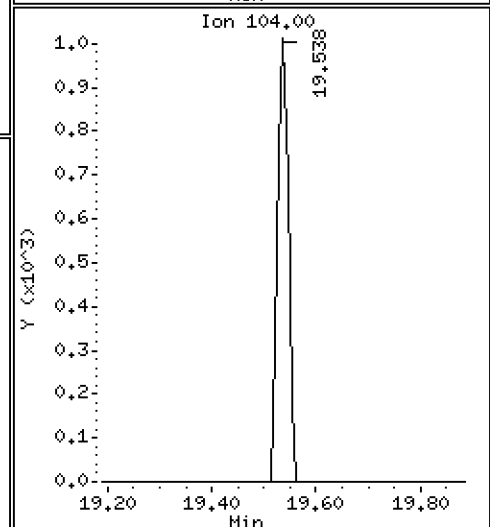
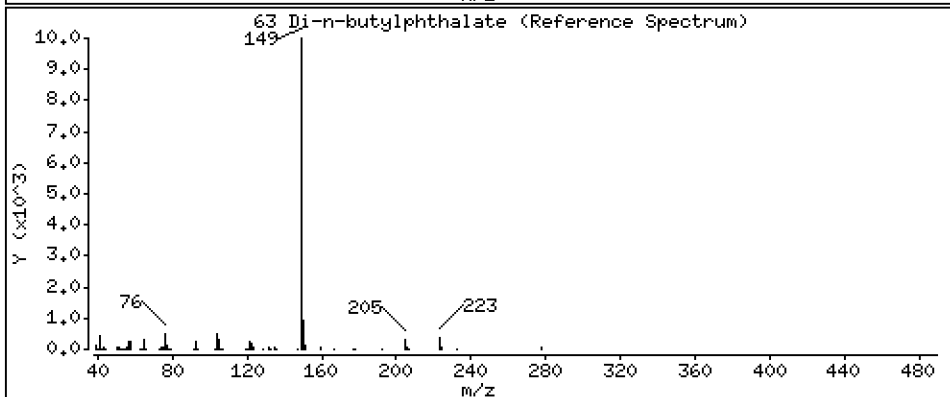
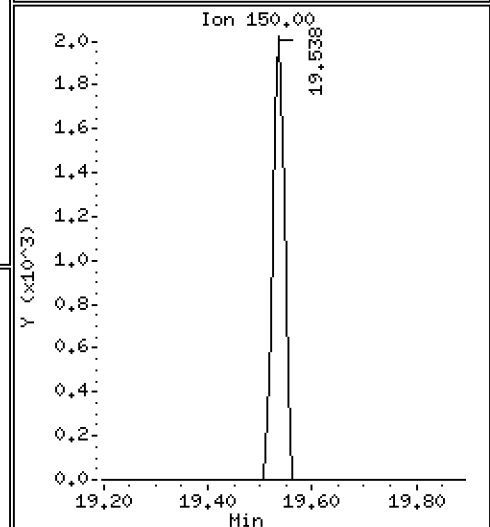
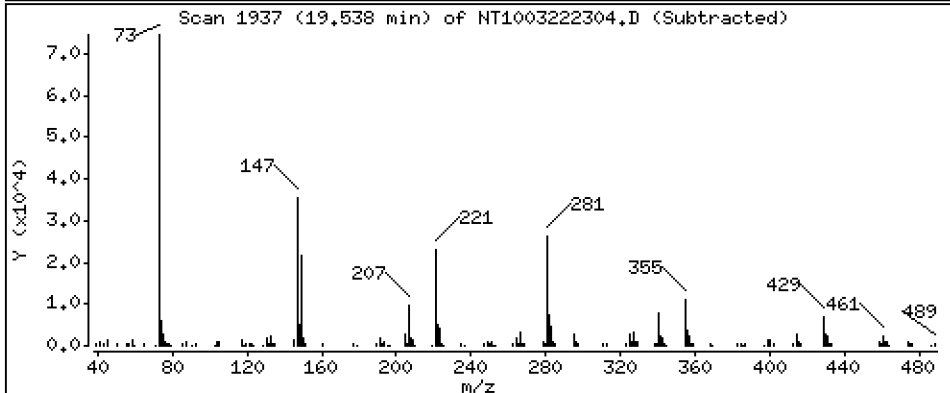
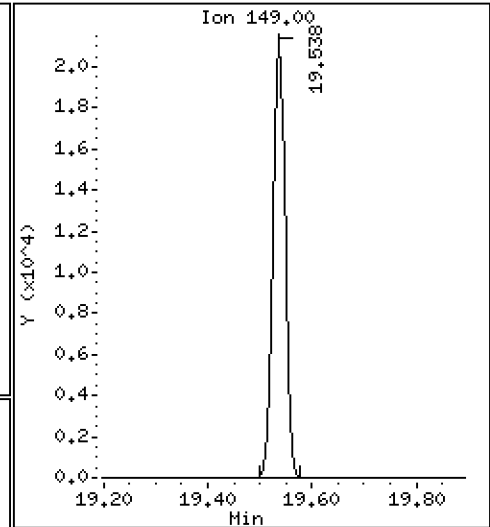
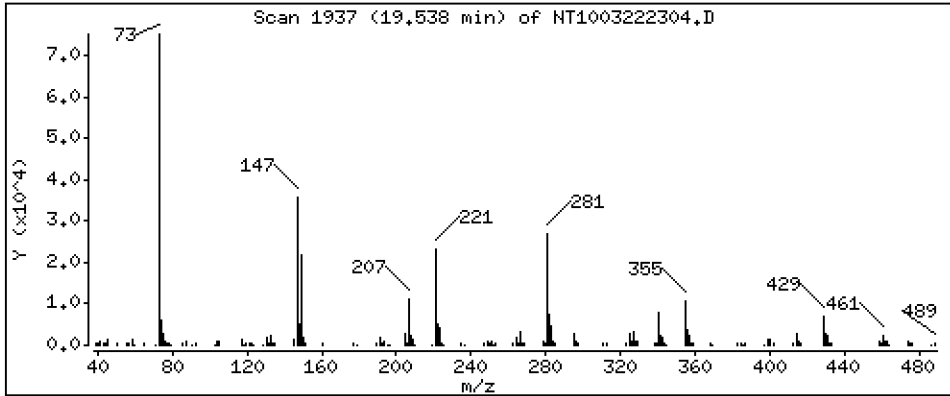
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 0,2065 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

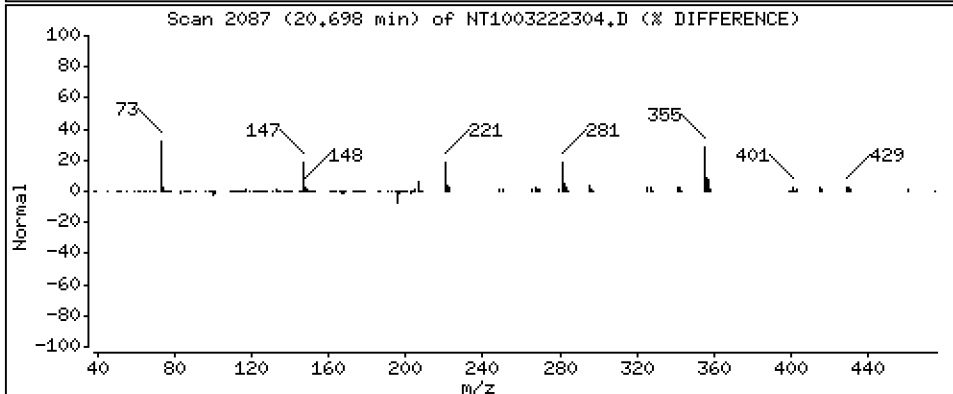
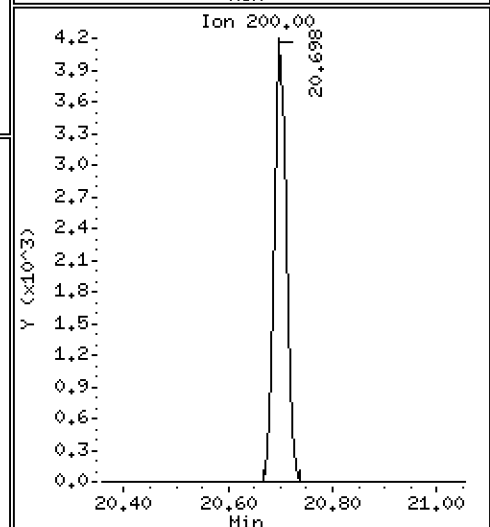
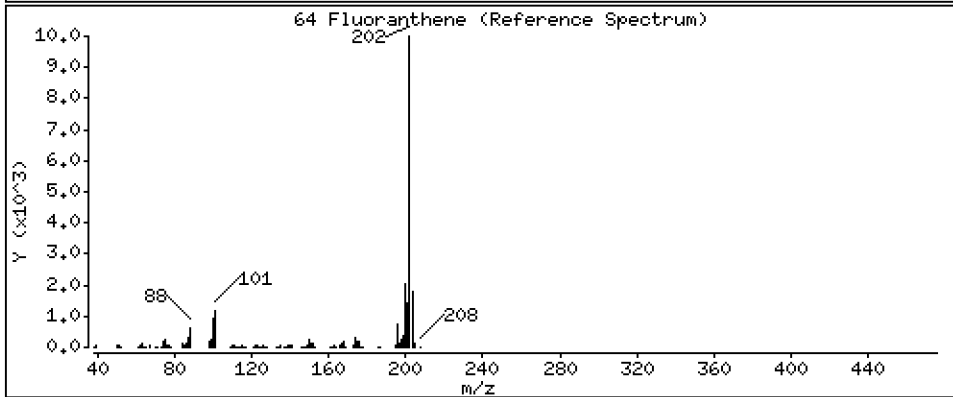
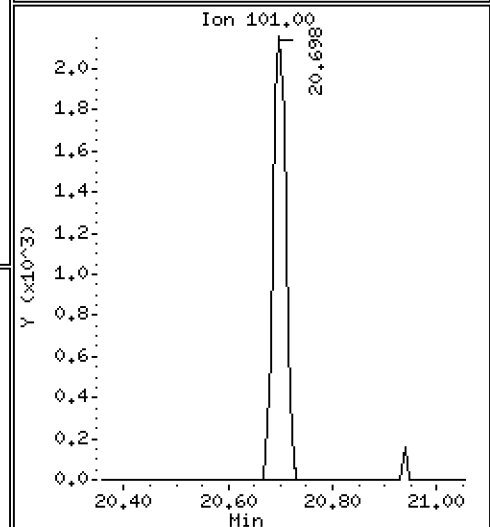
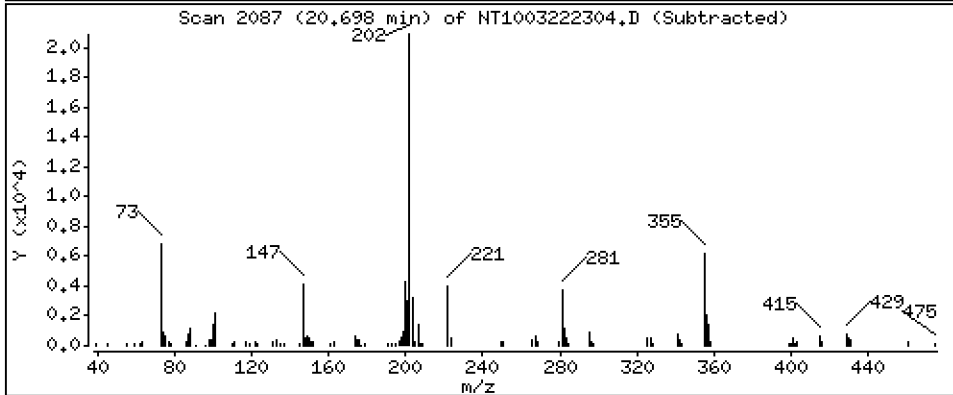
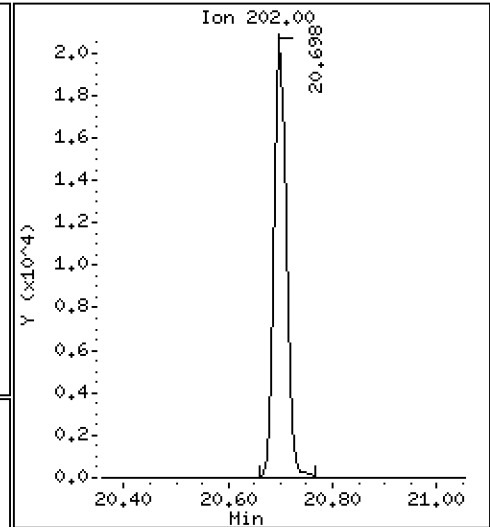
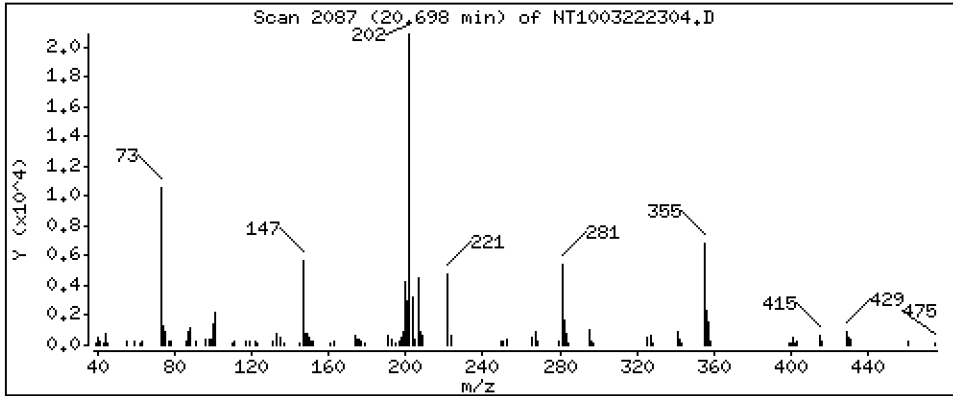
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 0,1833 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

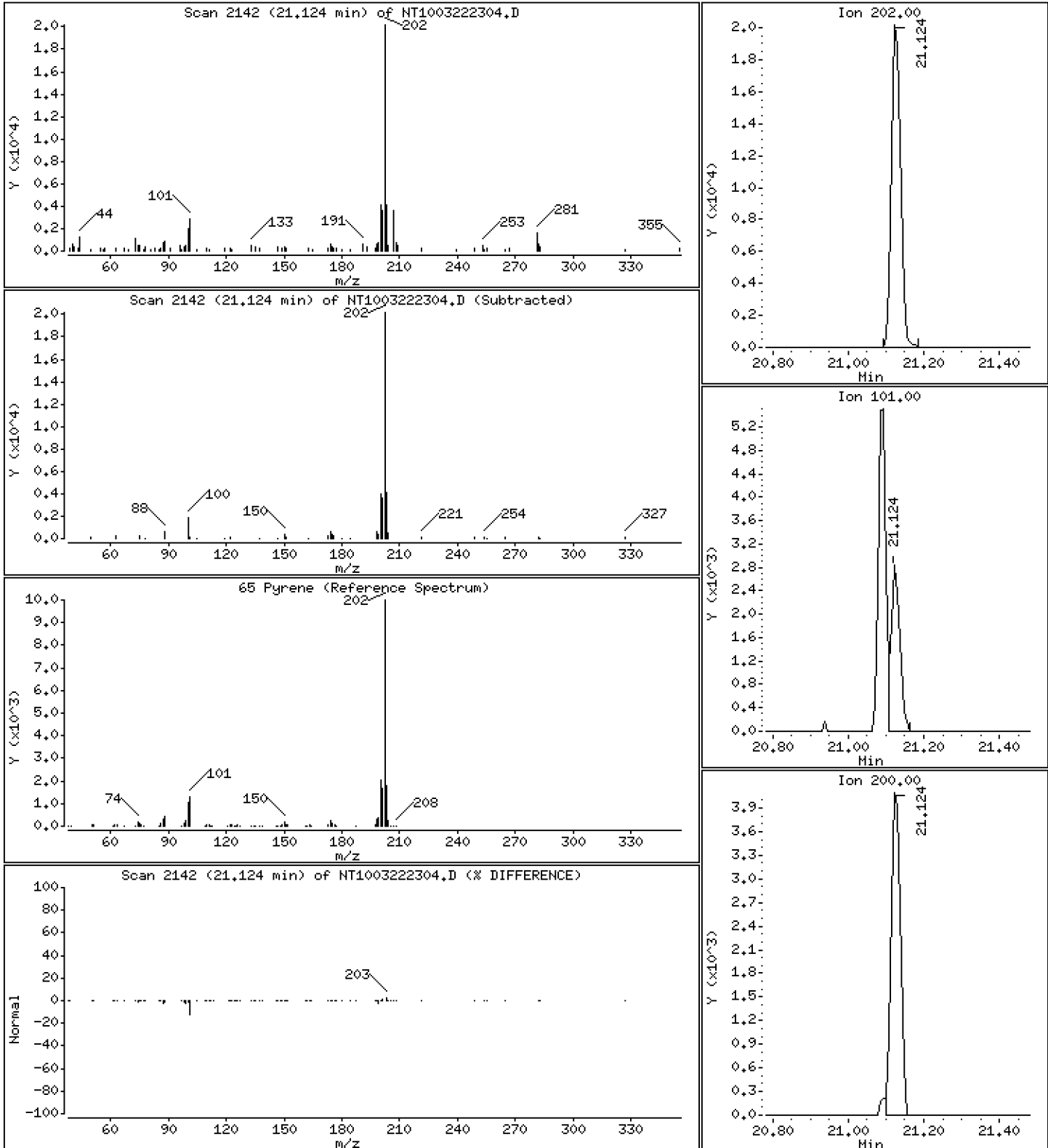
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 0,1830 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

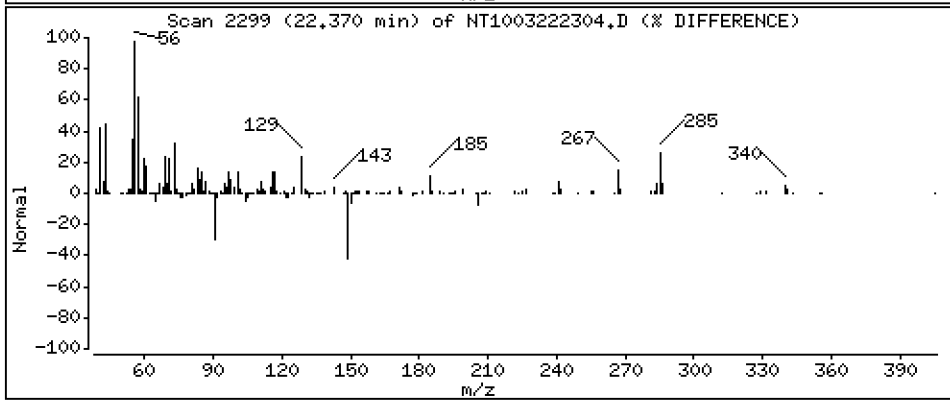
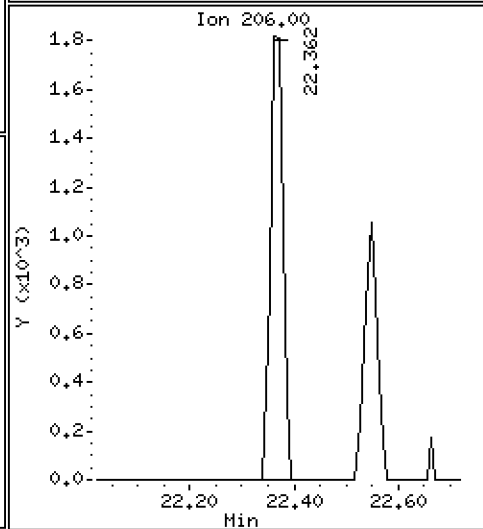
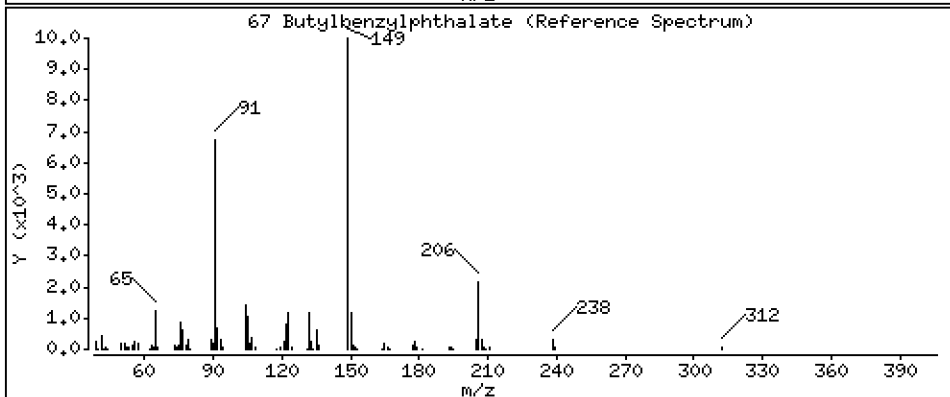
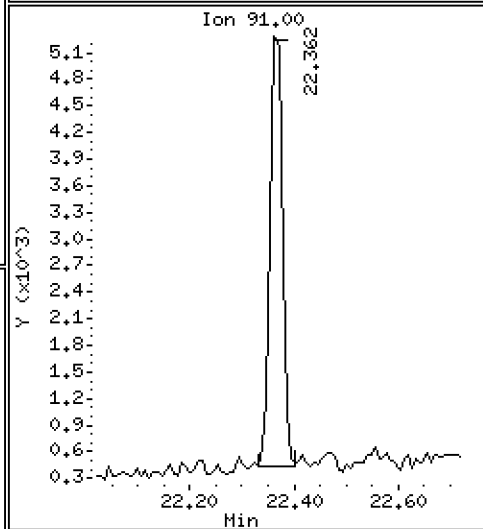
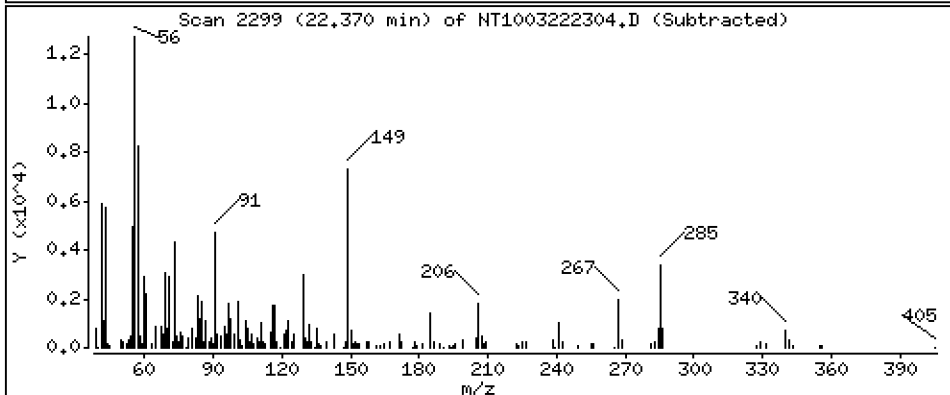
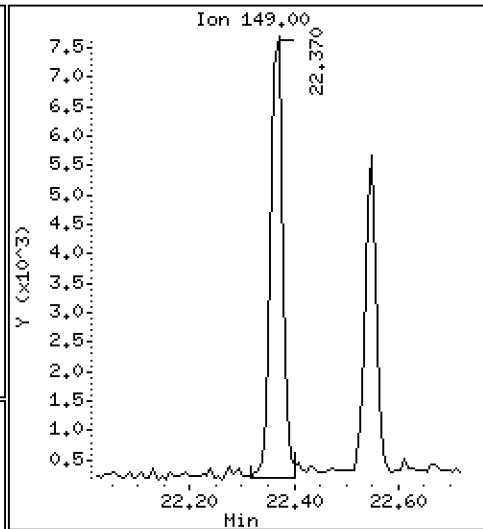
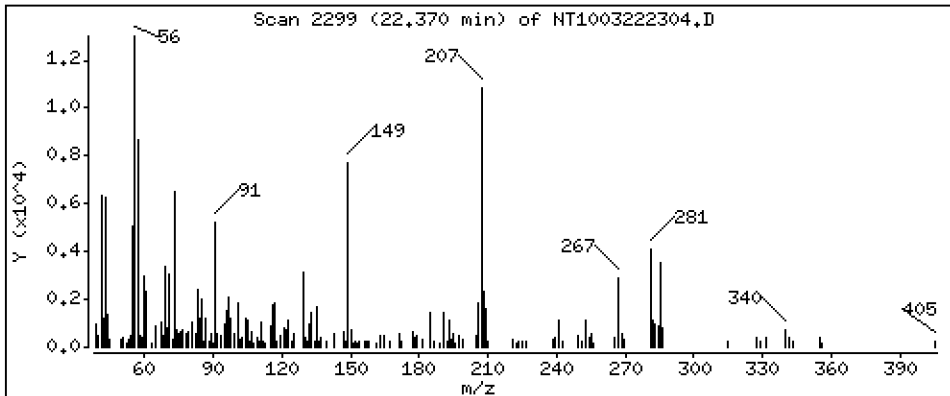
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 0,1836 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

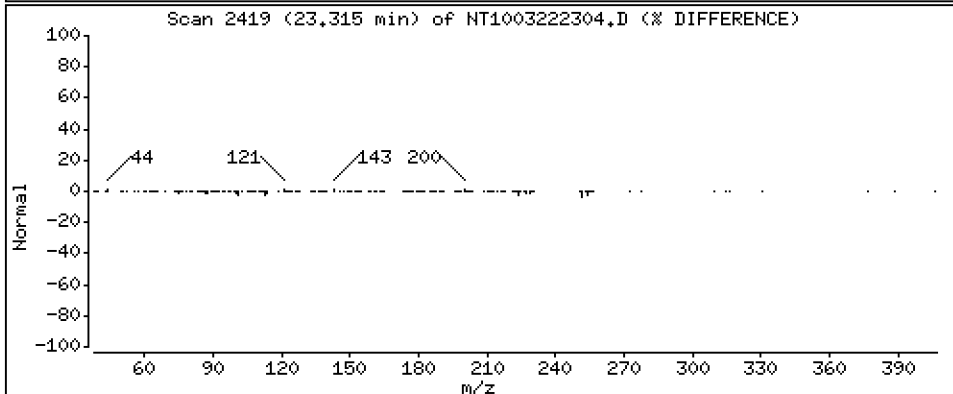
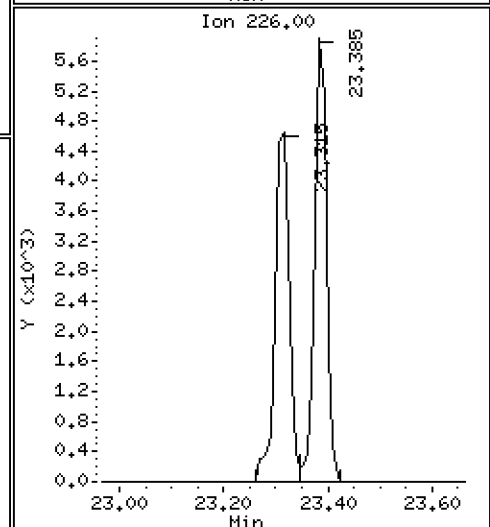
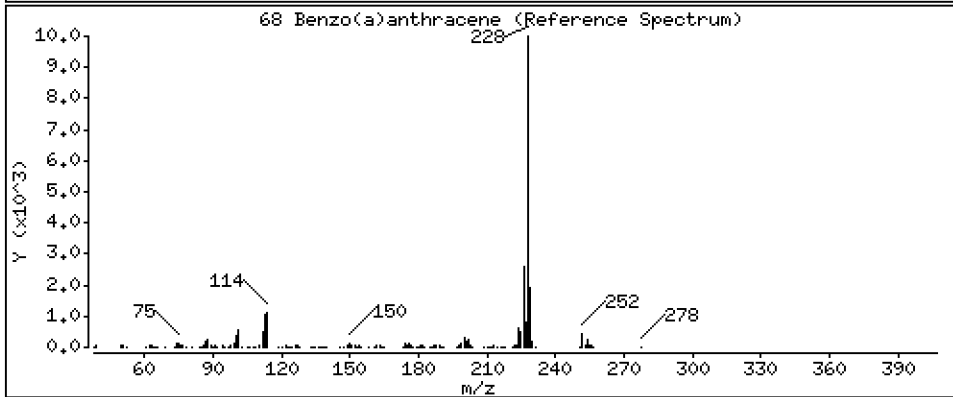
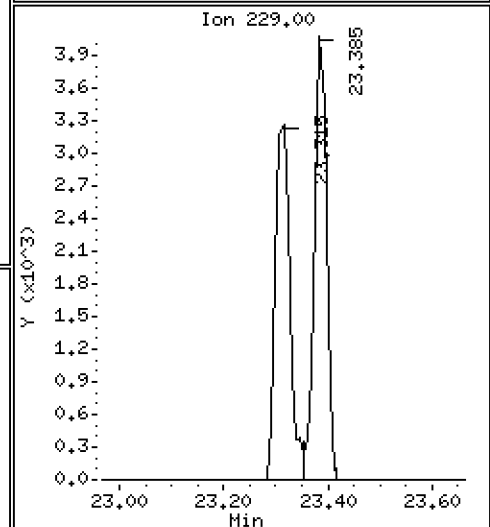
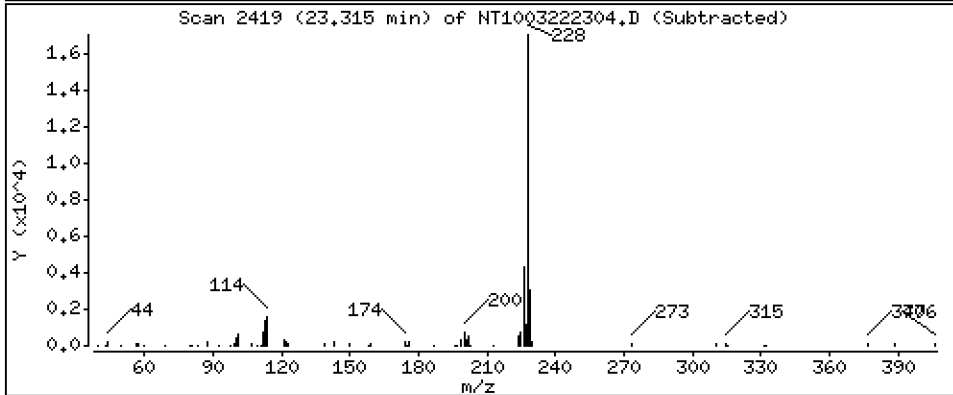
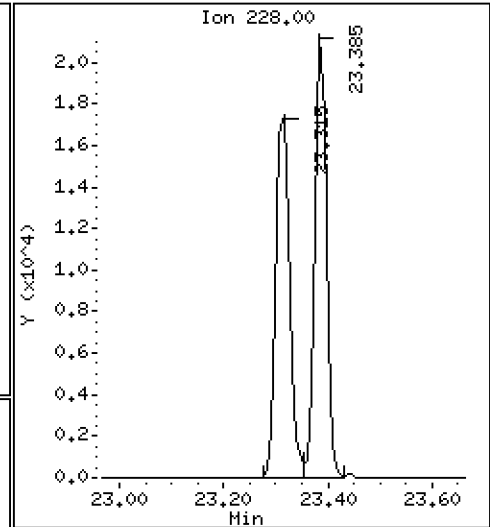
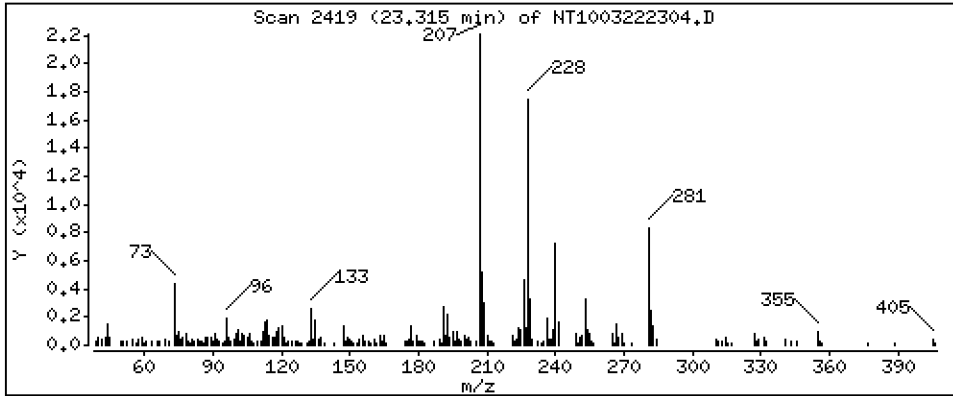
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 0,2005 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

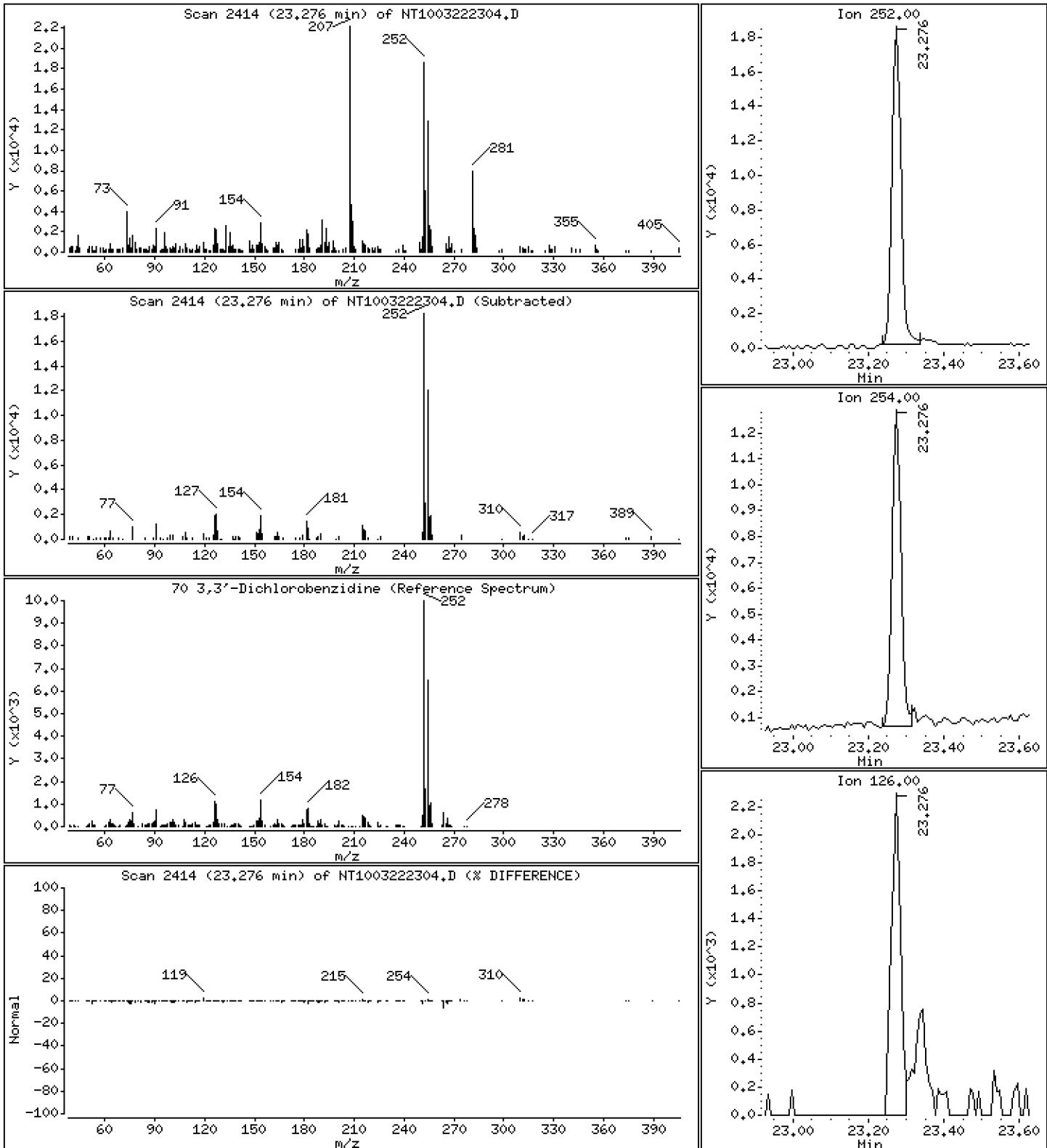
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

70 3,3'-Dichlorobenzidine

Concentration: 0,5900 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

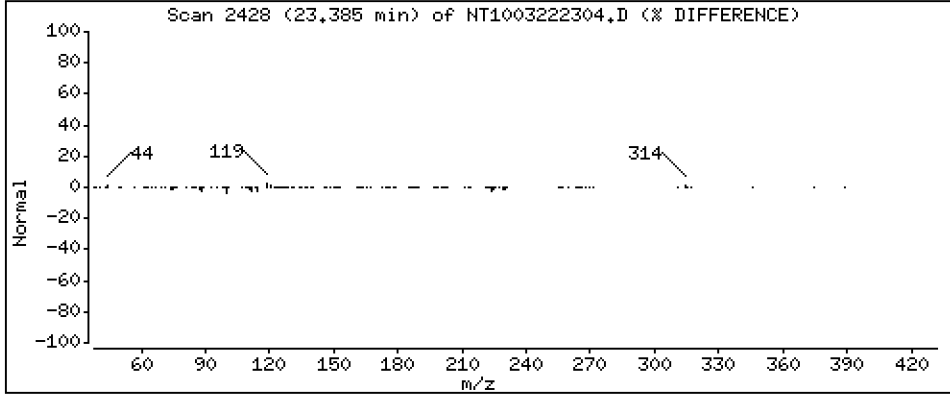
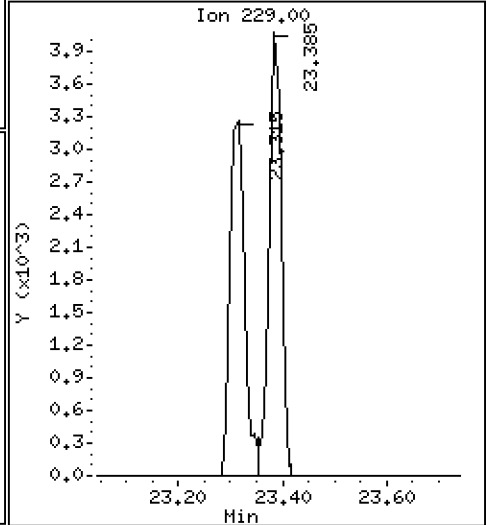
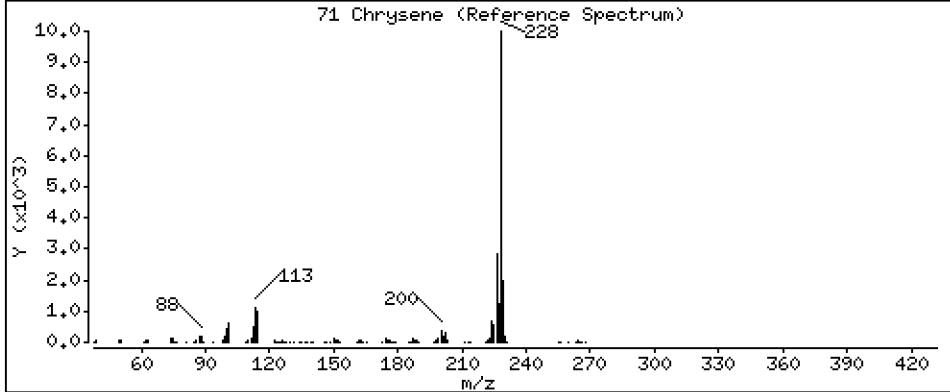
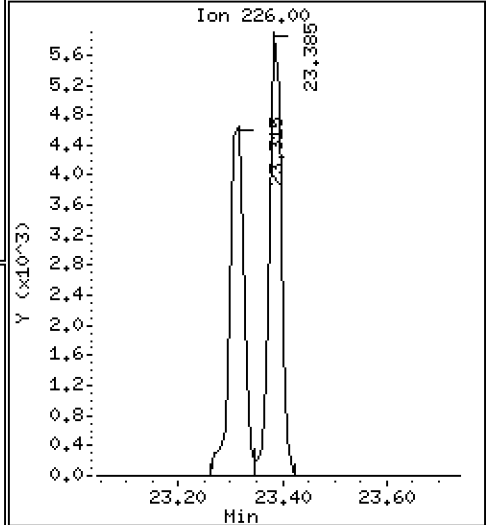
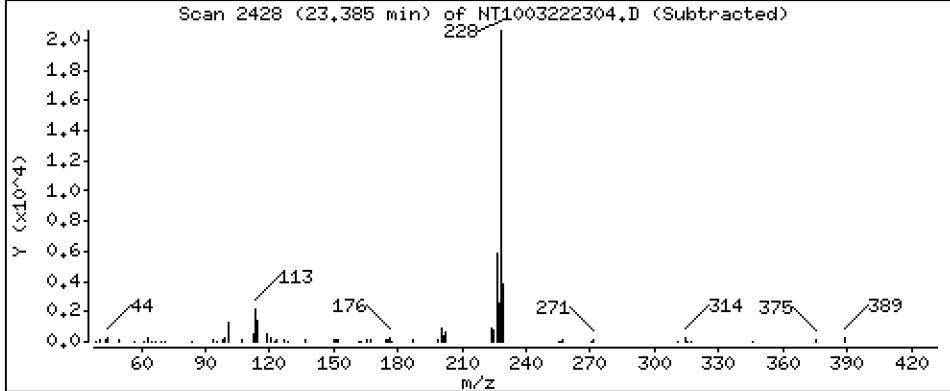
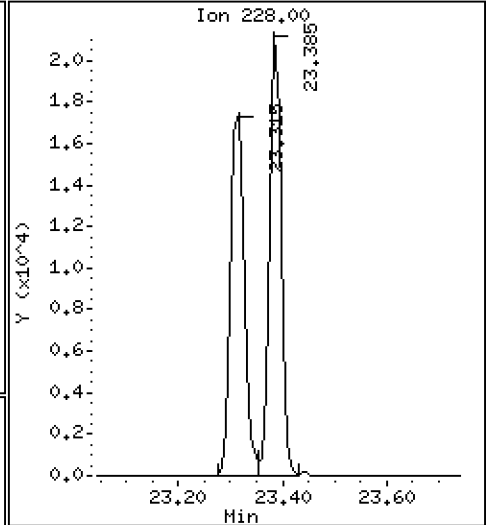
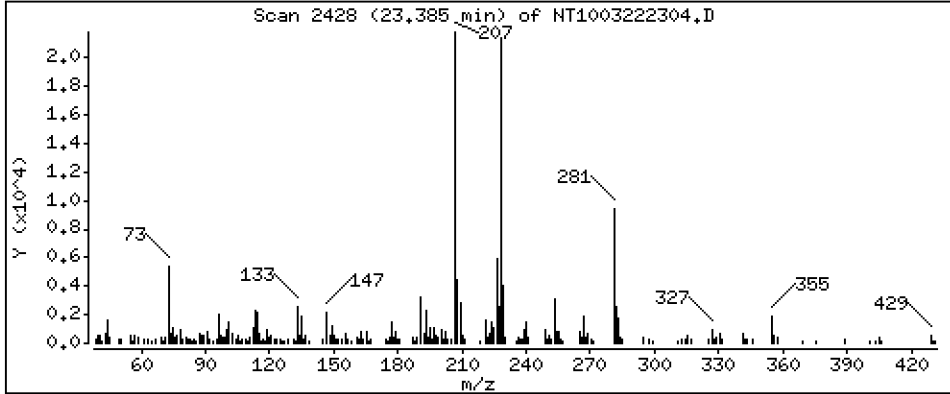
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 0,2053 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

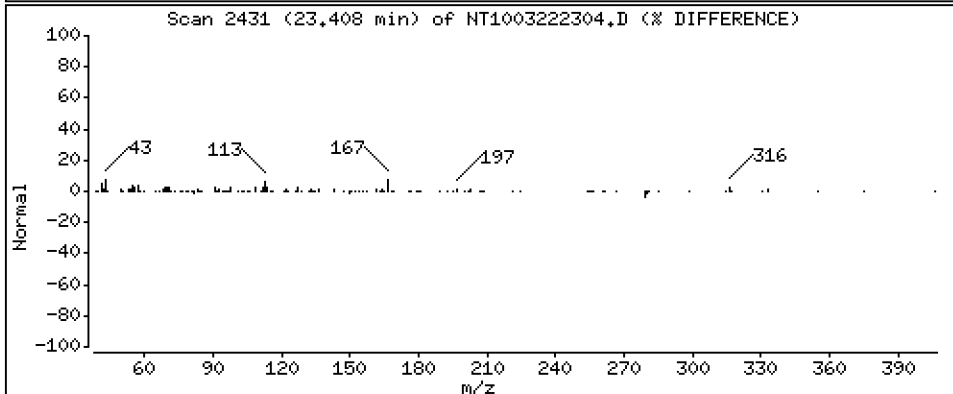
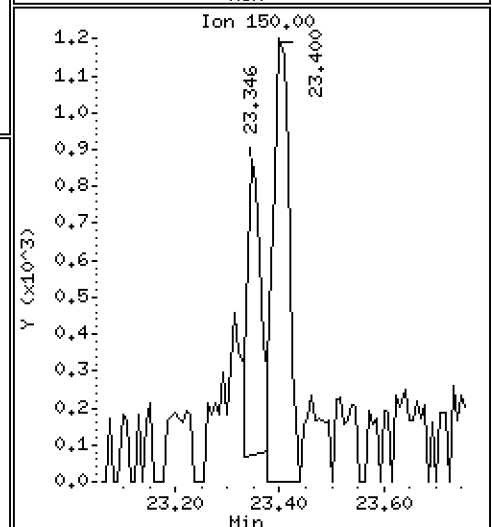
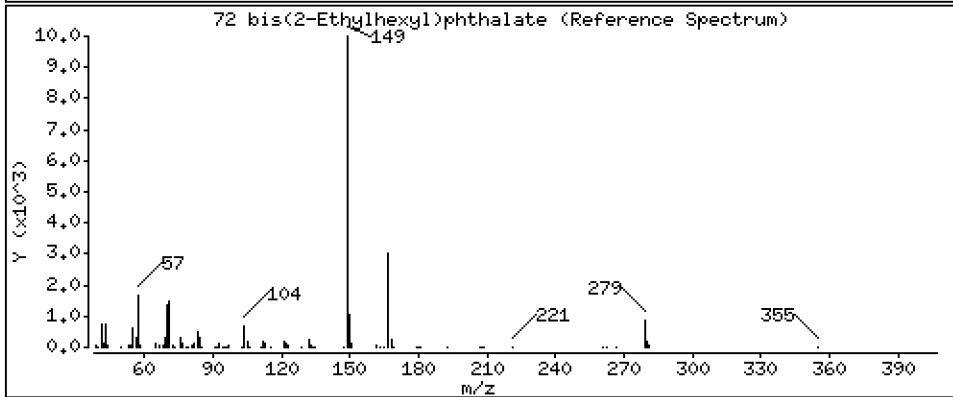
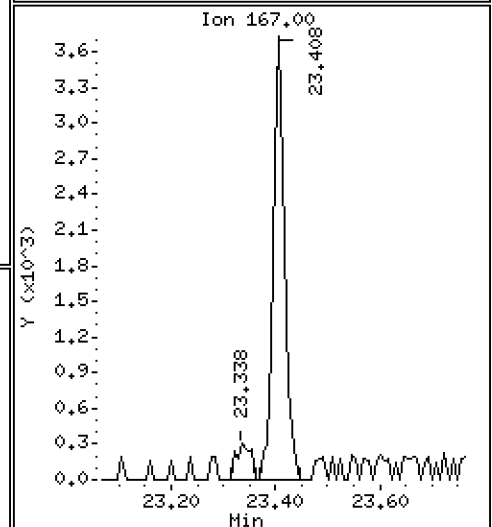
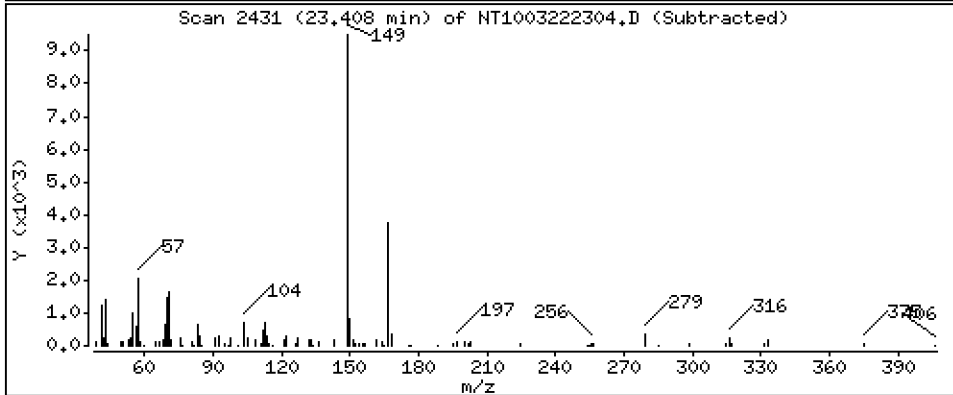
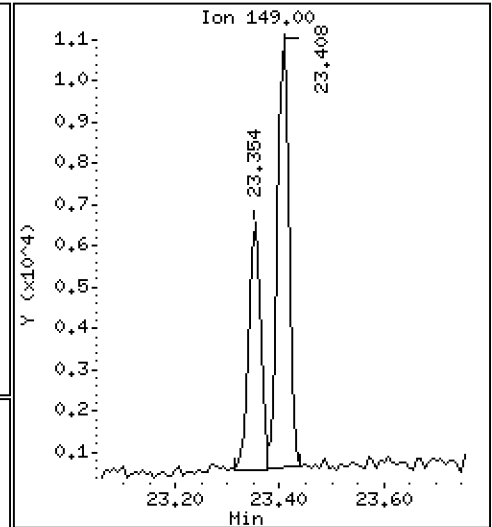
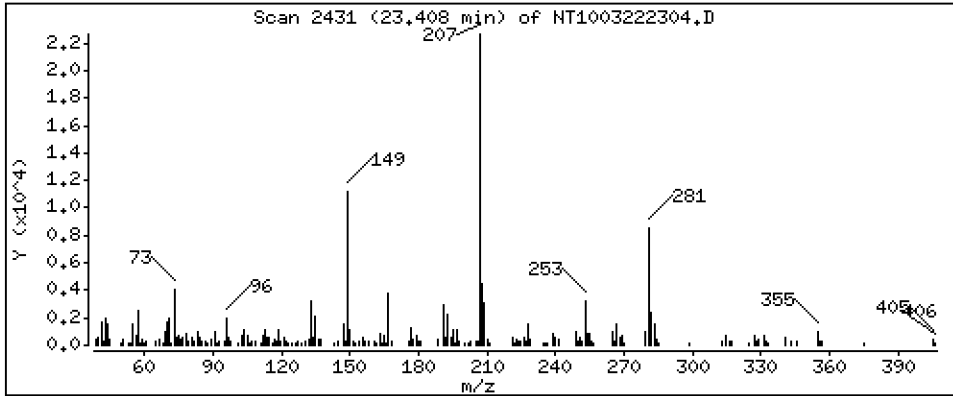
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 0,1653 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

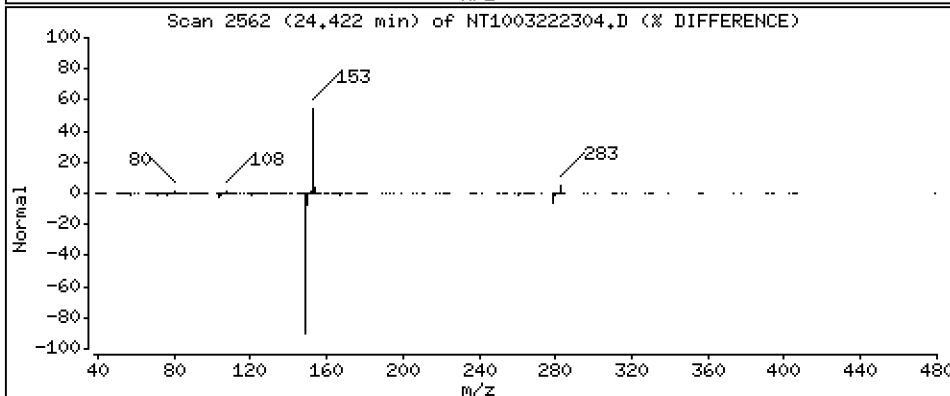
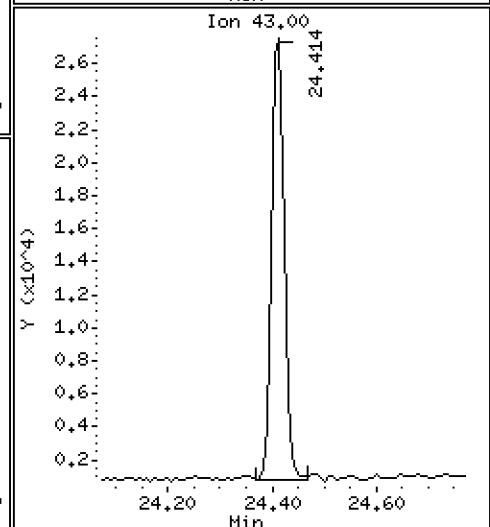
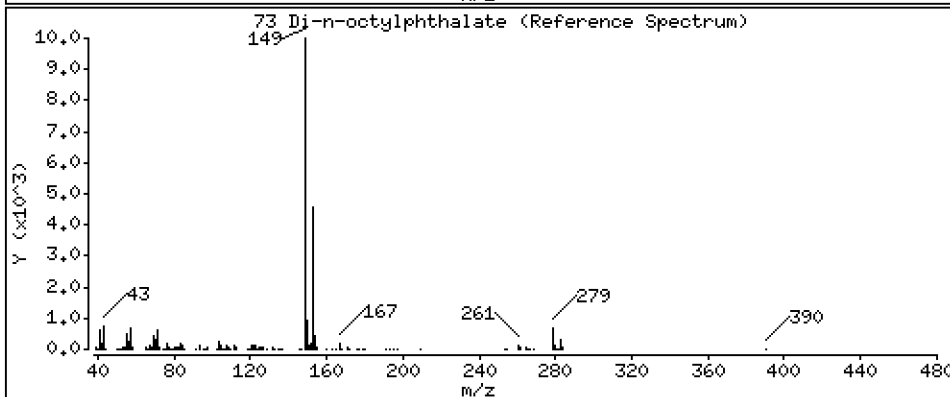
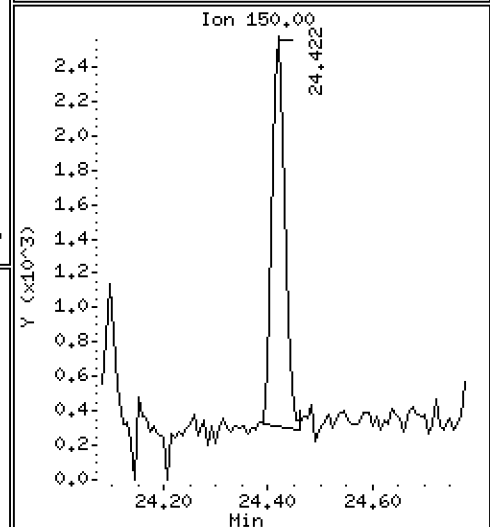
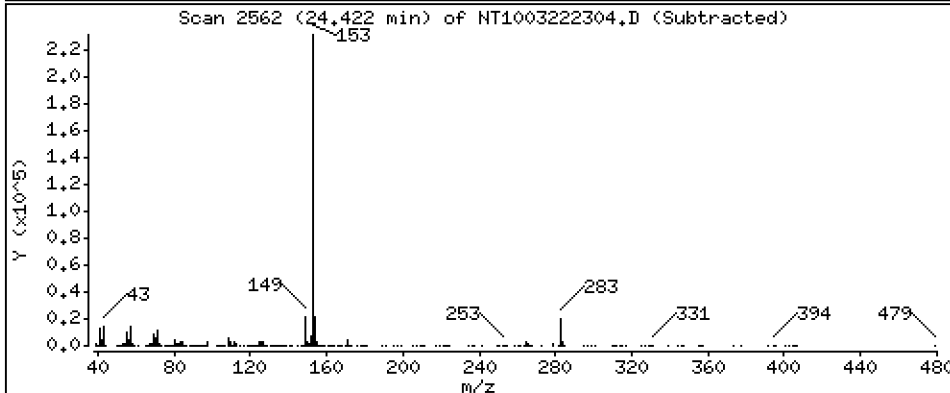
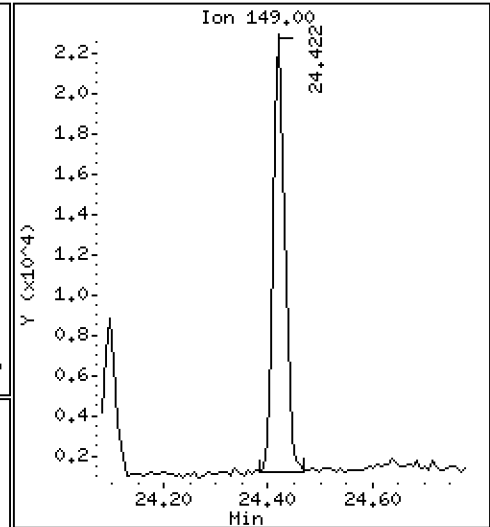
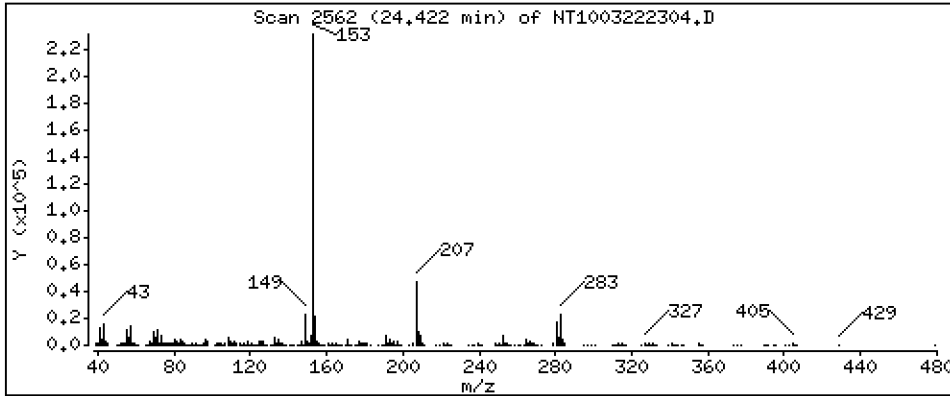
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 0,2061 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

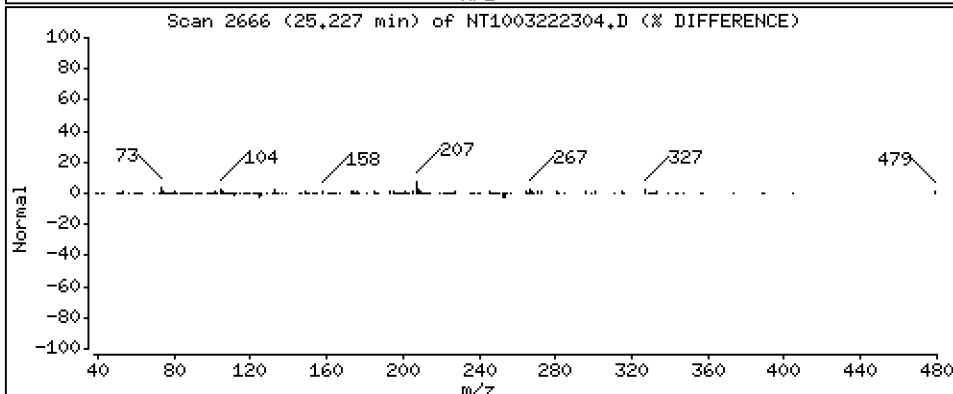
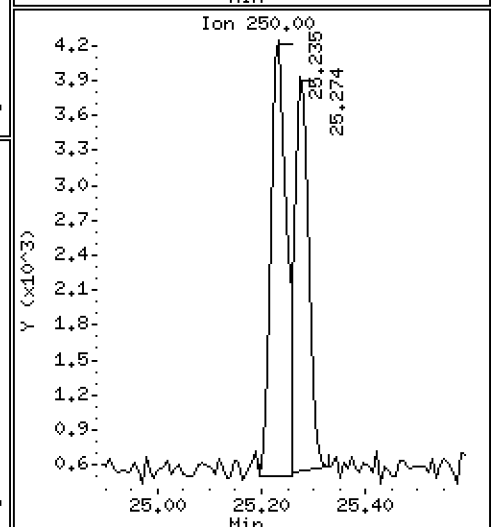
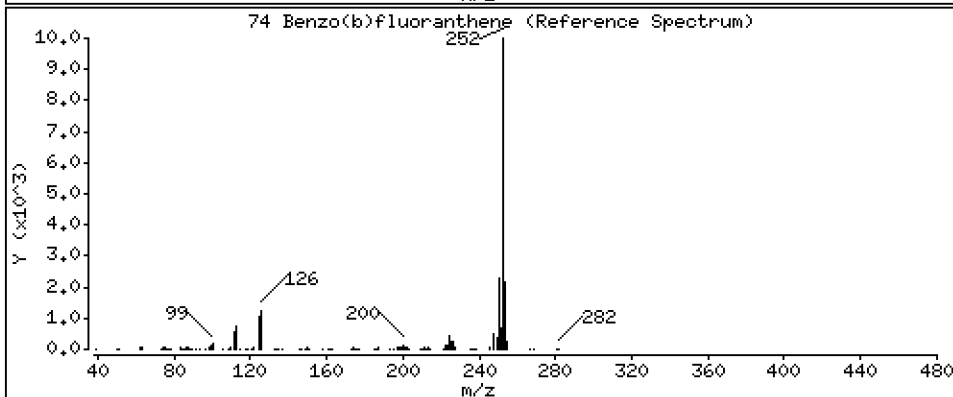
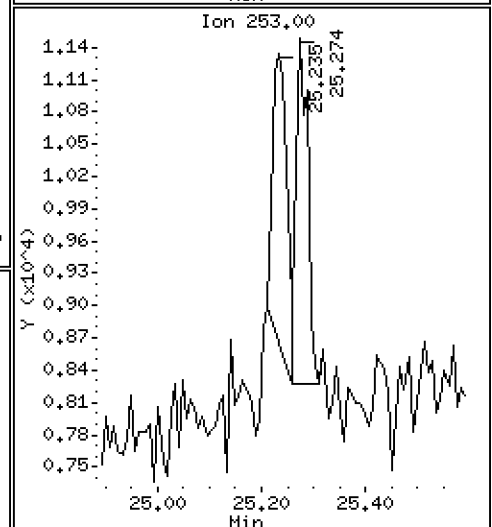
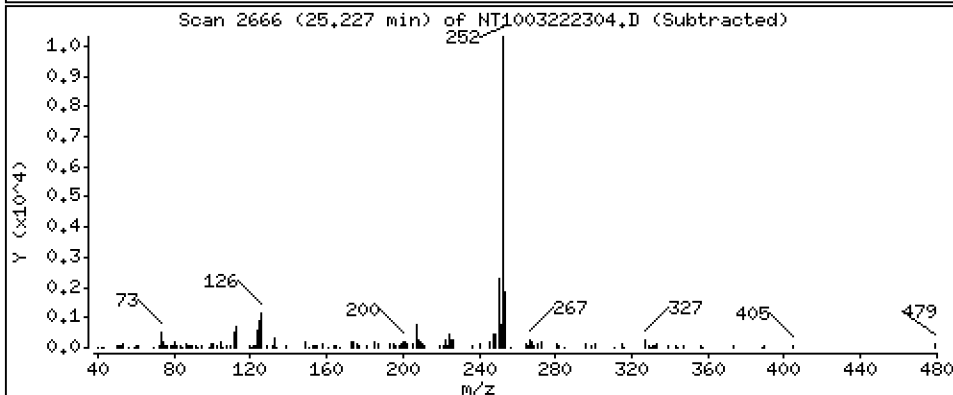
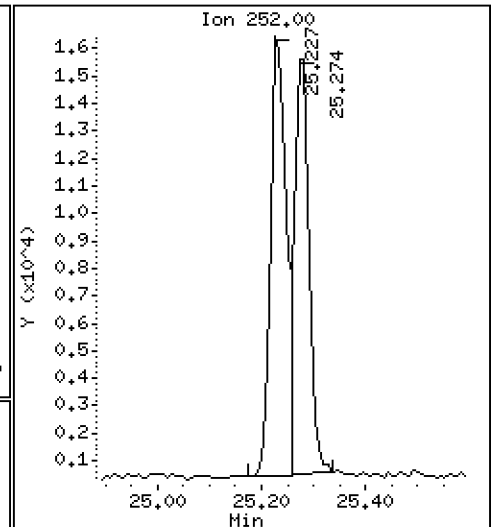
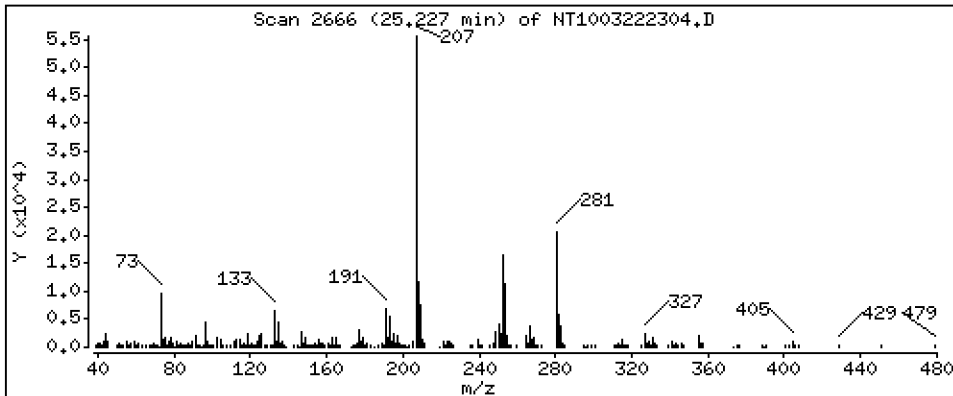
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 0,2162 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

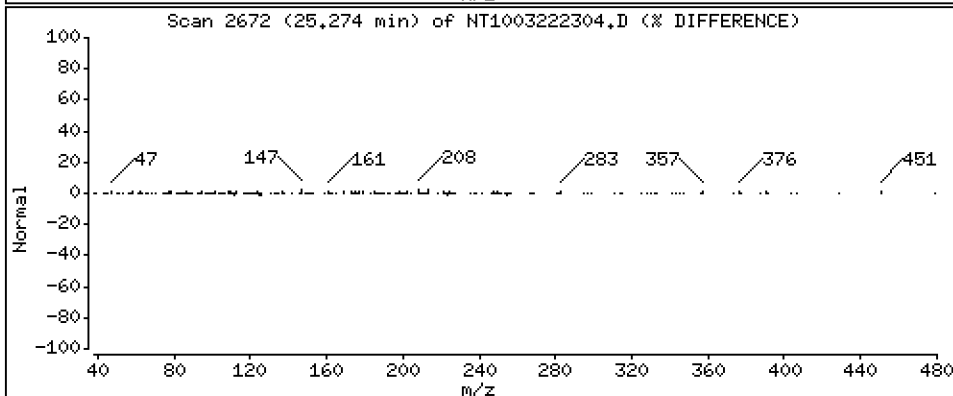
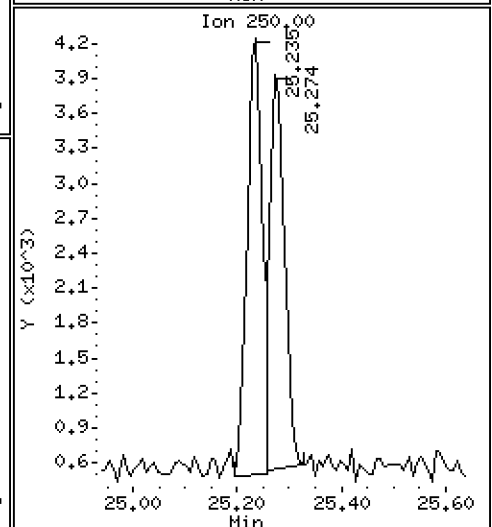
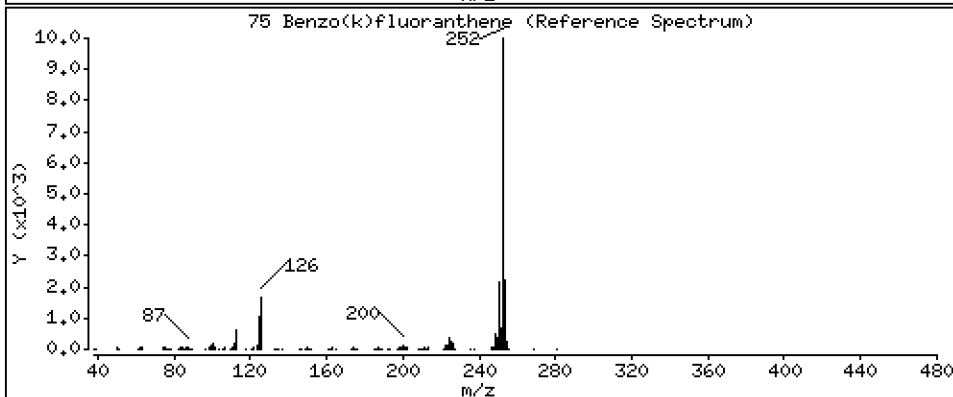
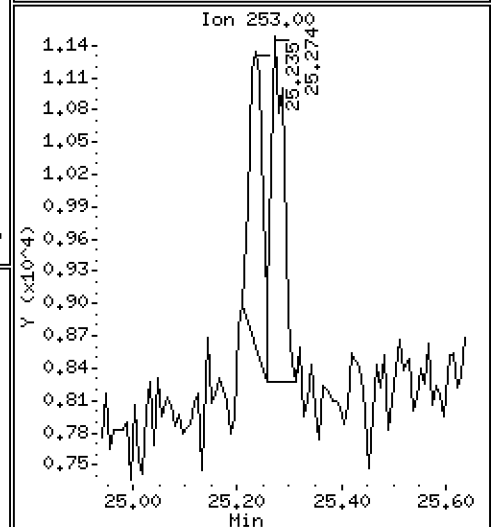
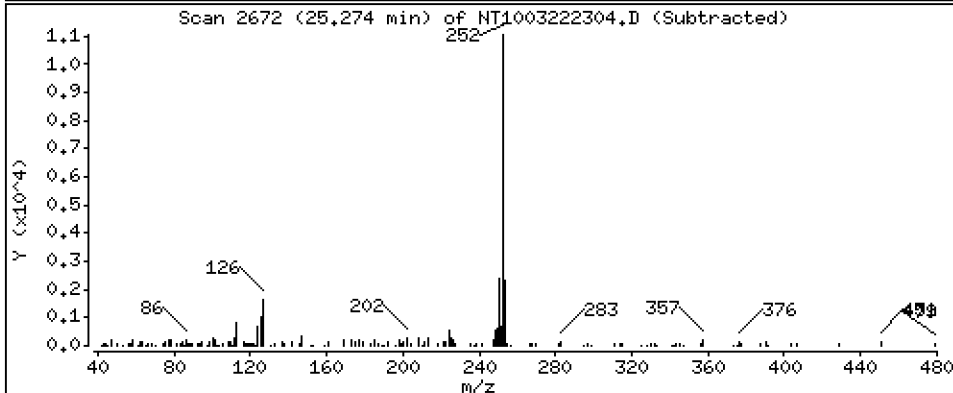
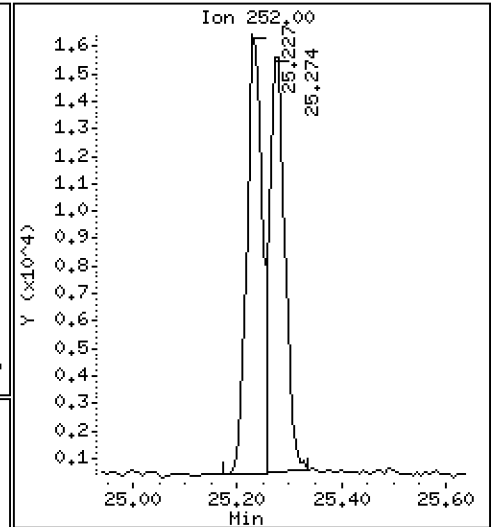
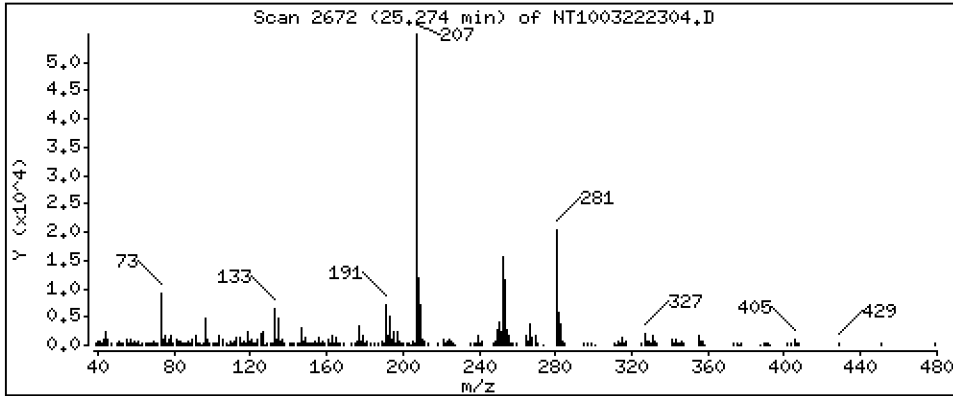
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 0,1936 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

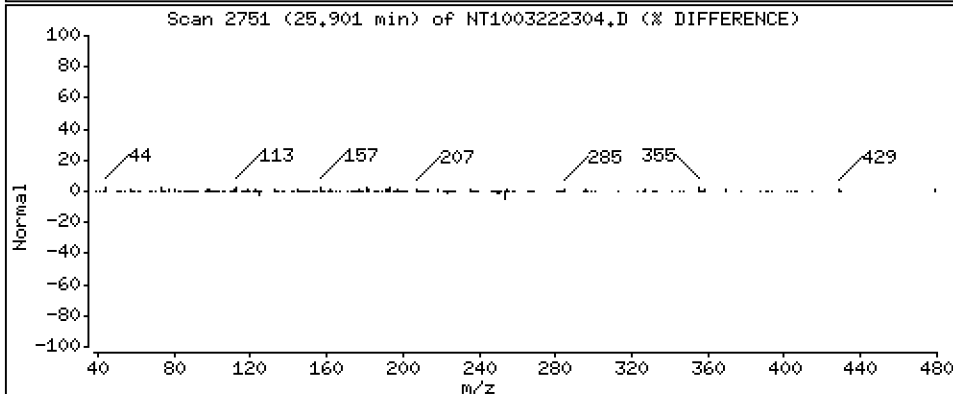
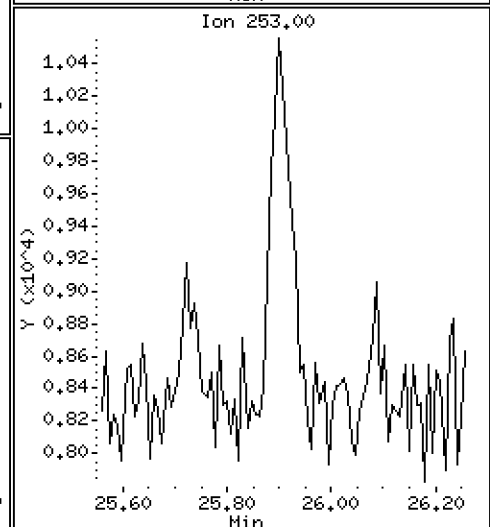
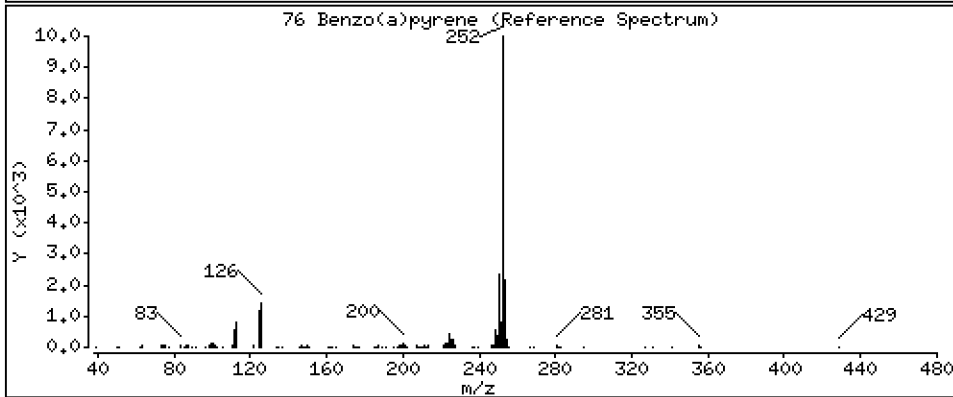
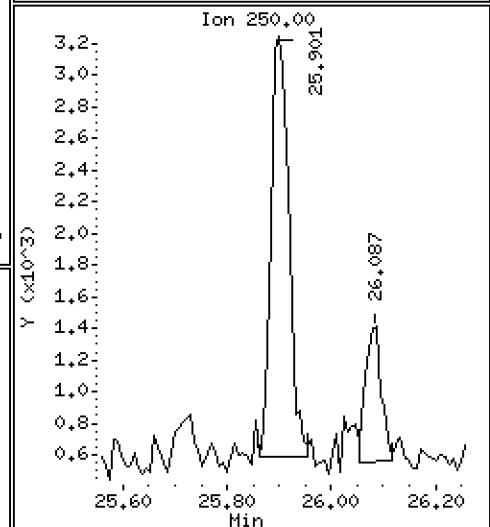
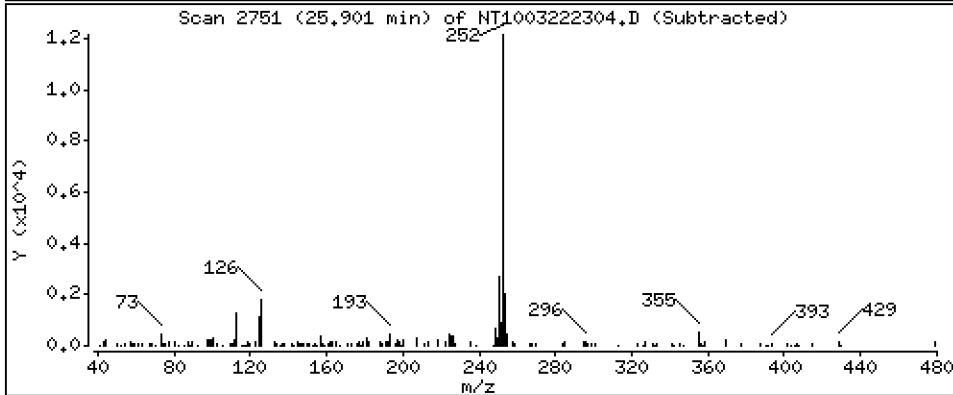
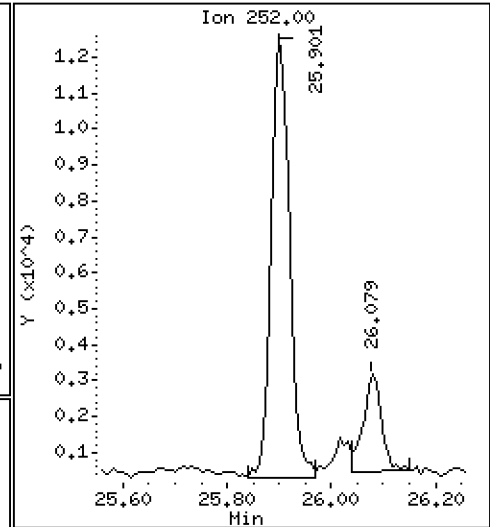
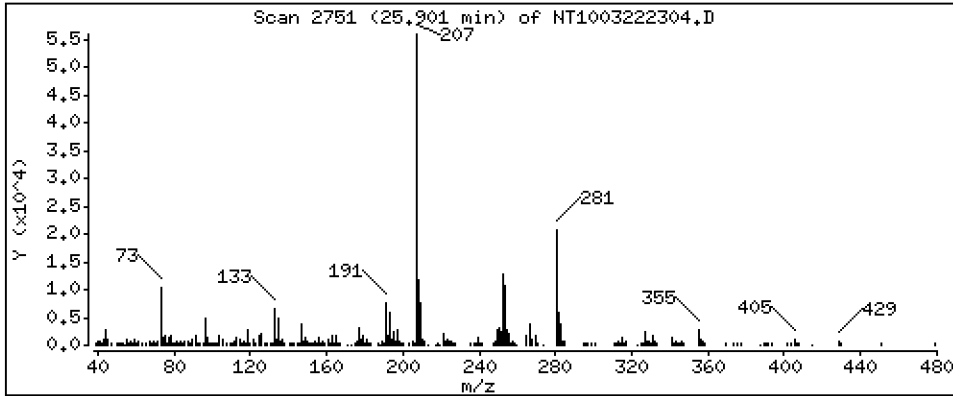
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 0,2049 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

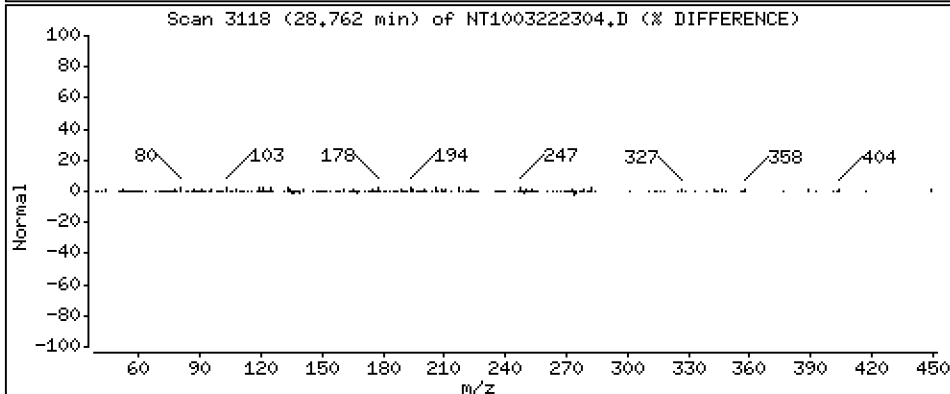
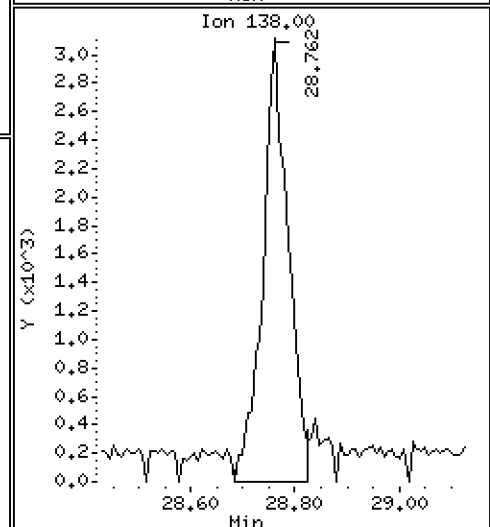
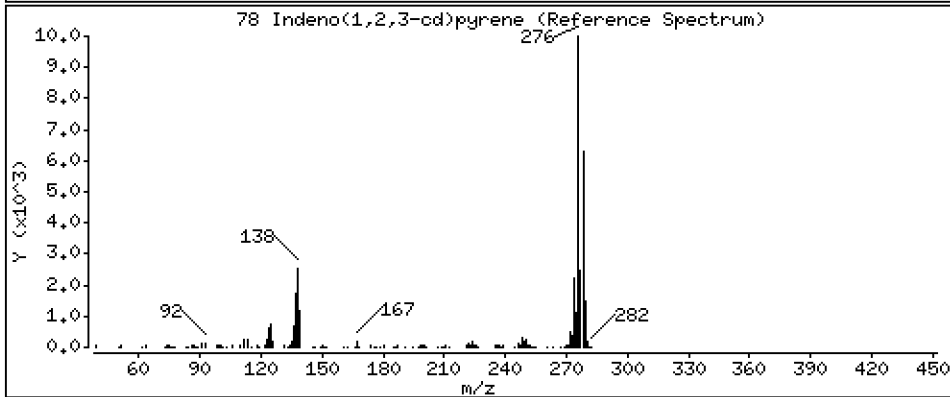
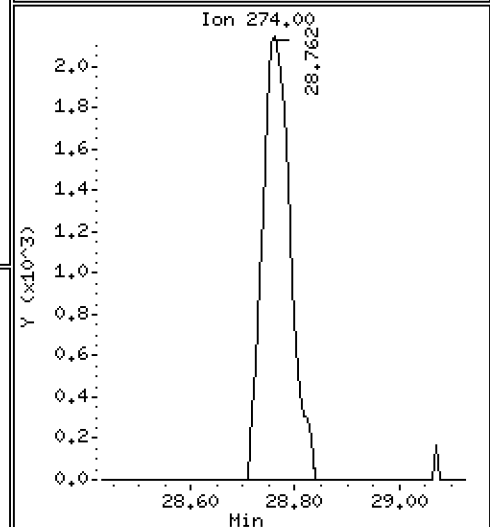
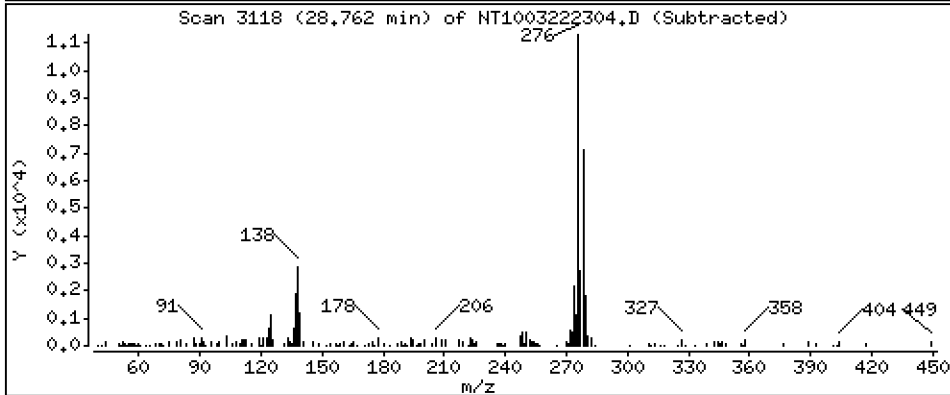
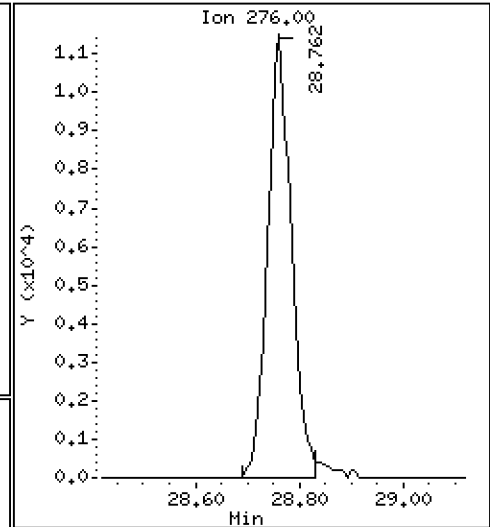
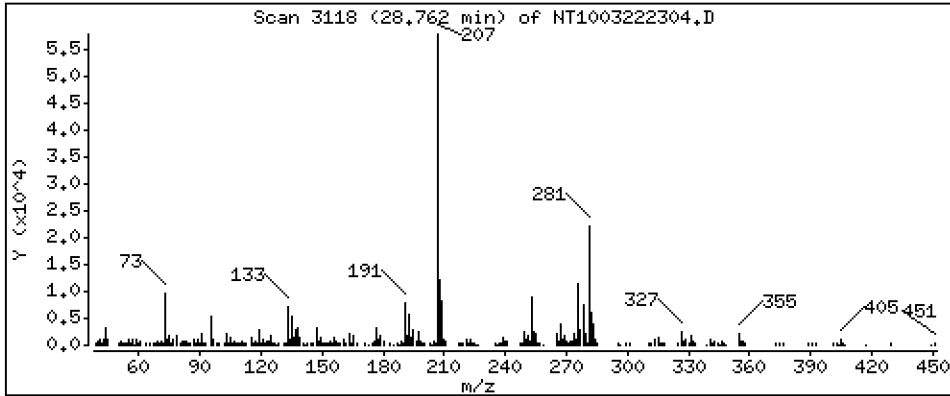
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 0,1973 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

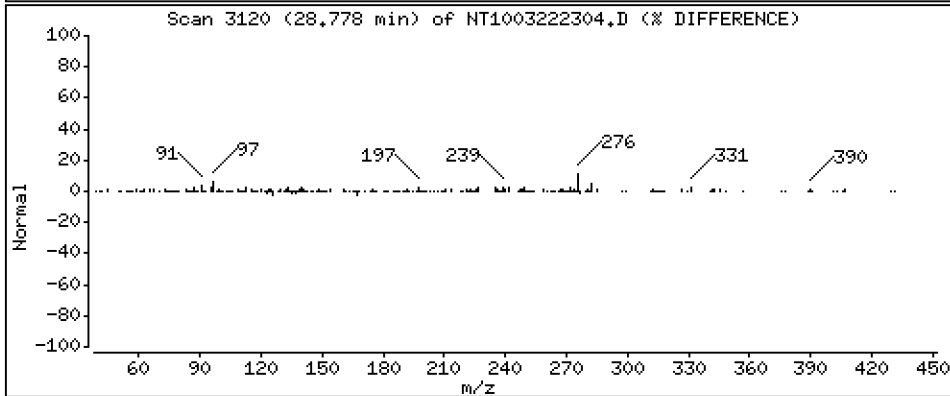
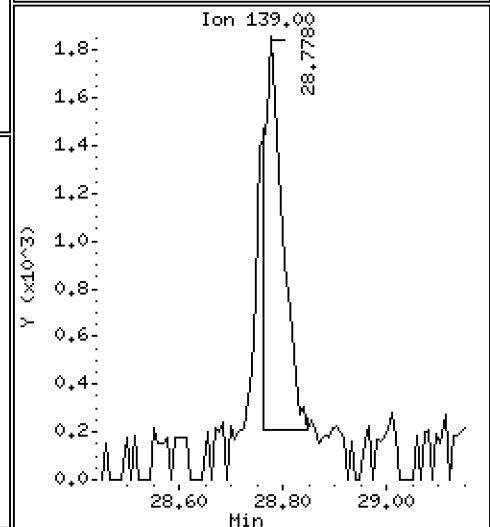
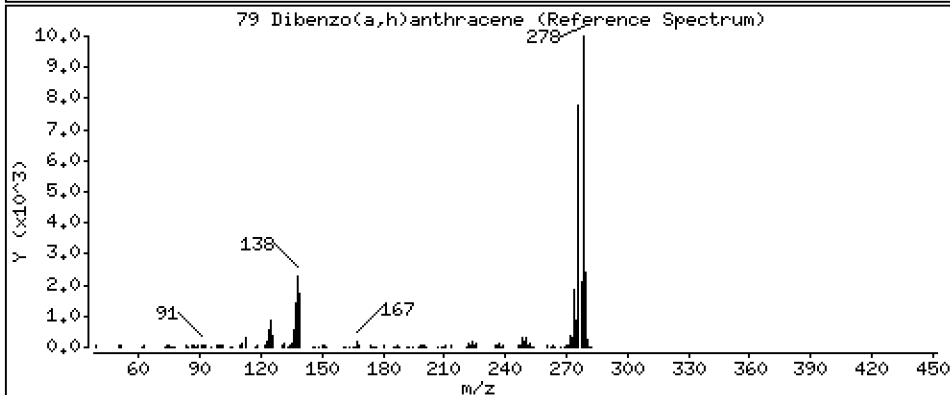
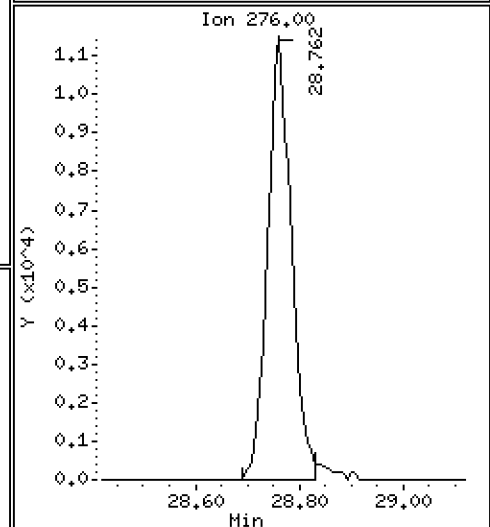
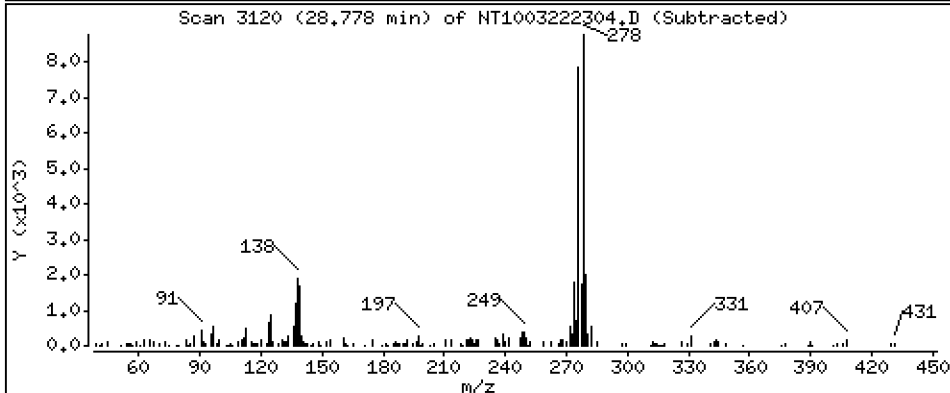
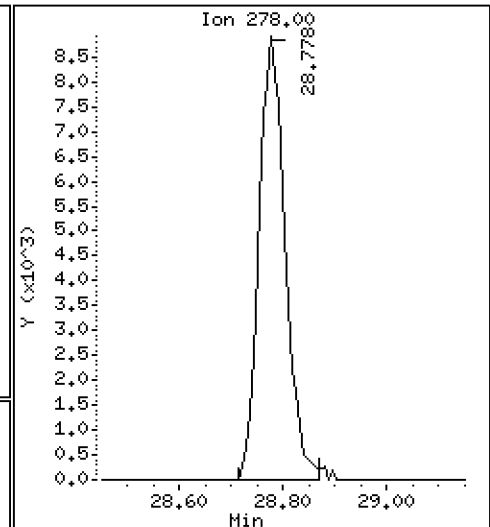
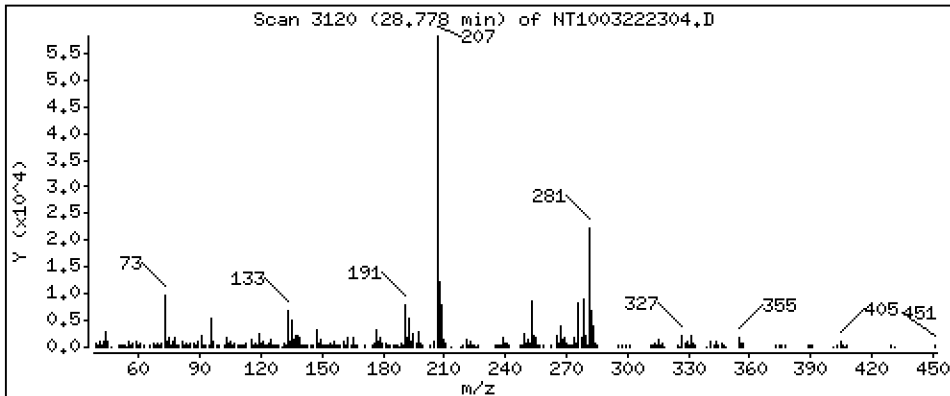
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 0,2068 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

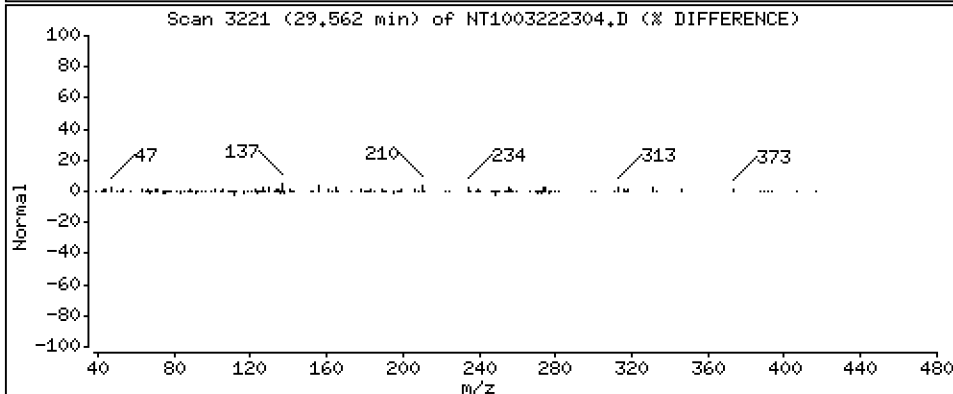
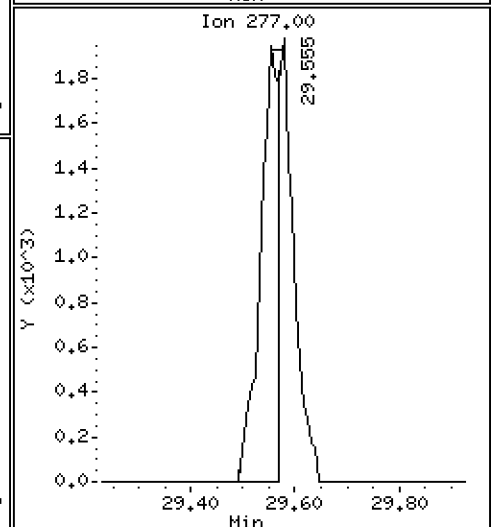
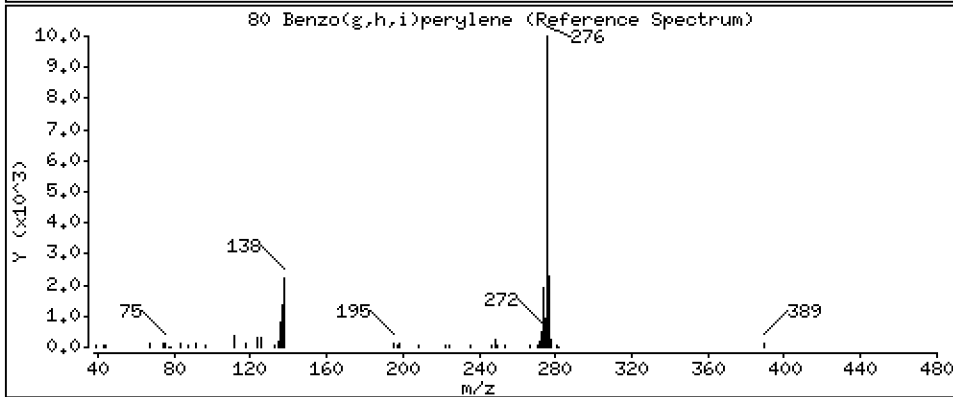
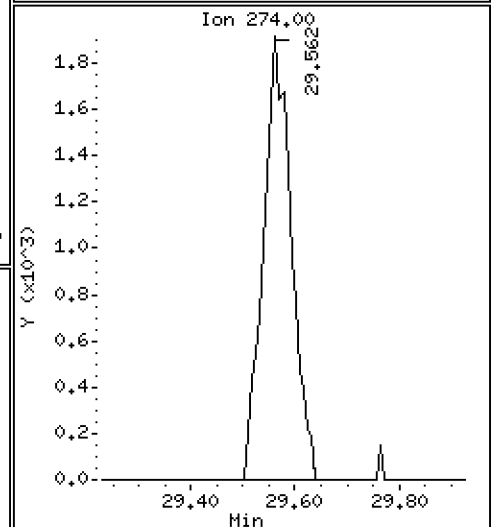
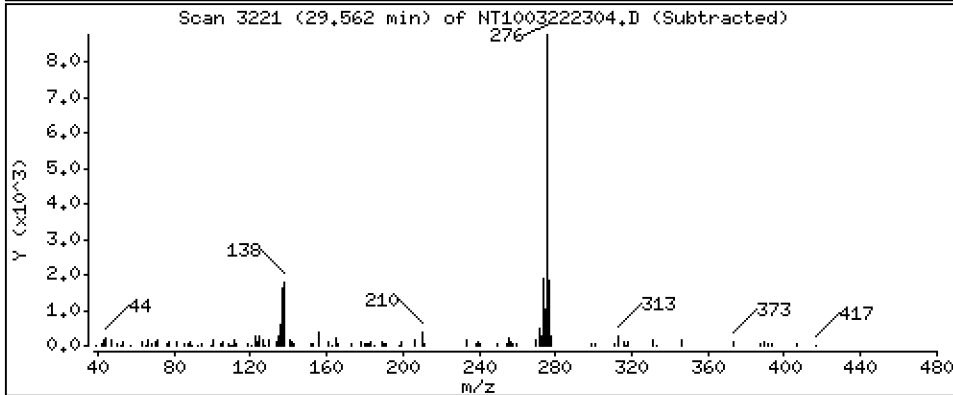
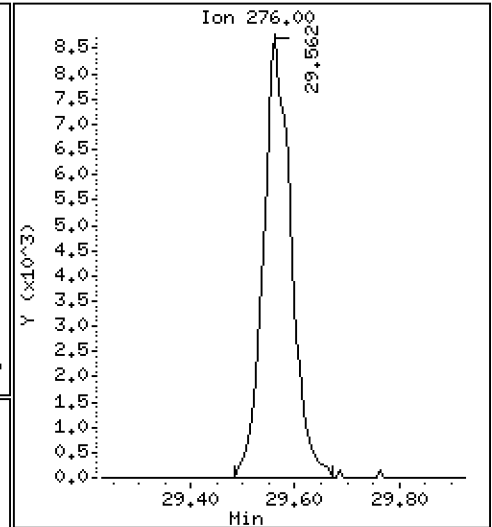
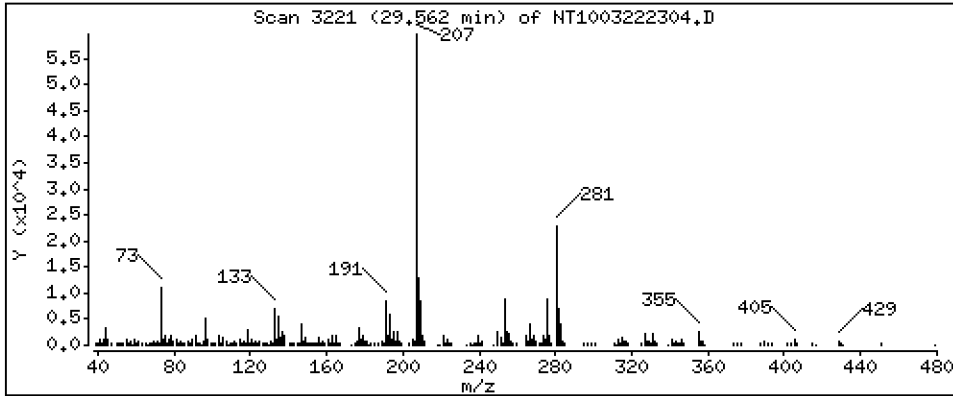
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 0,2049 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

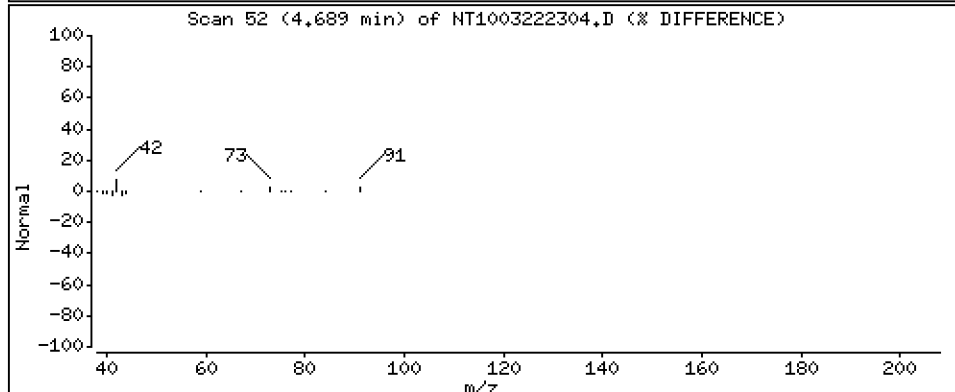
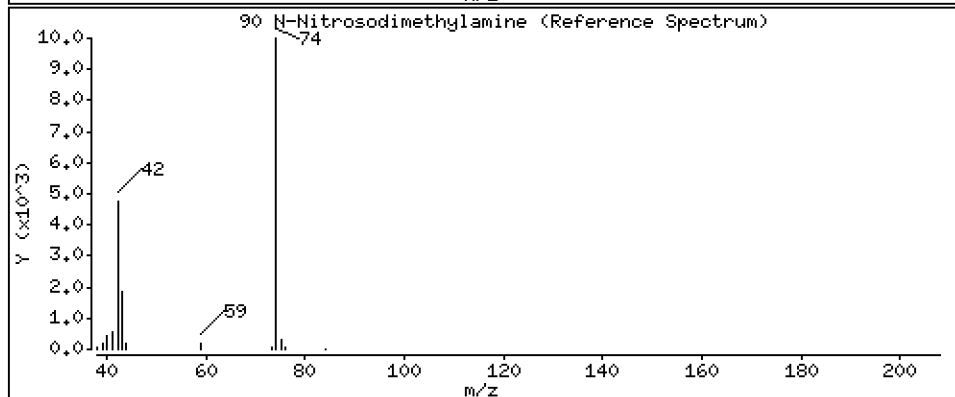
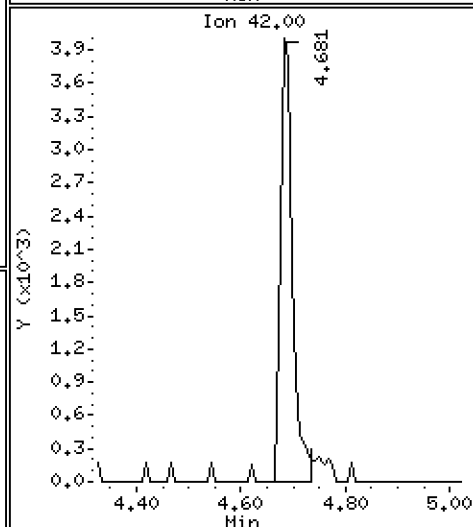
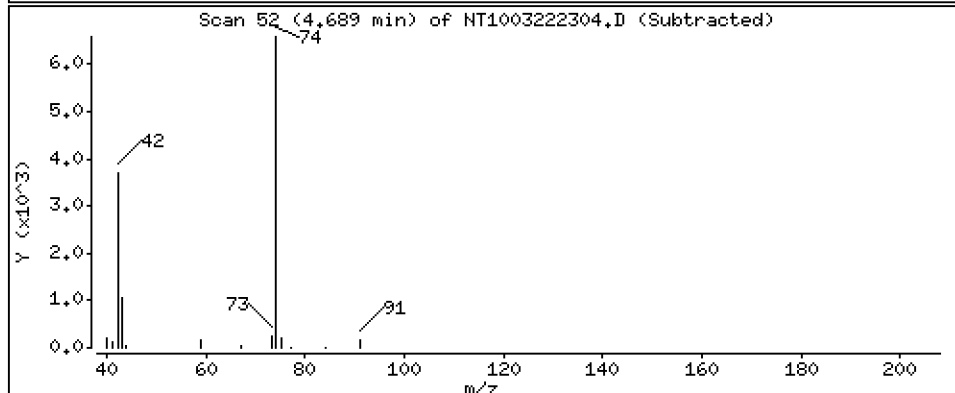
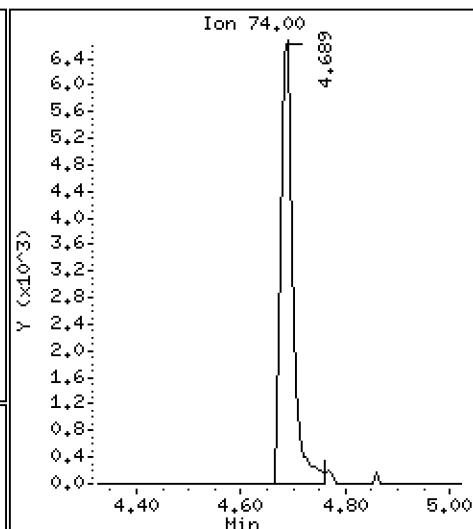
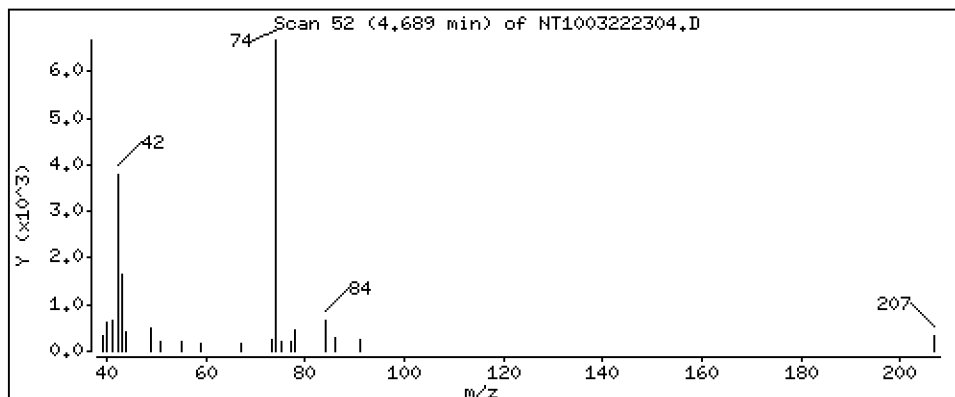
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

90 N-Nitrosodimethylamine

Concentration: 0,3834 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

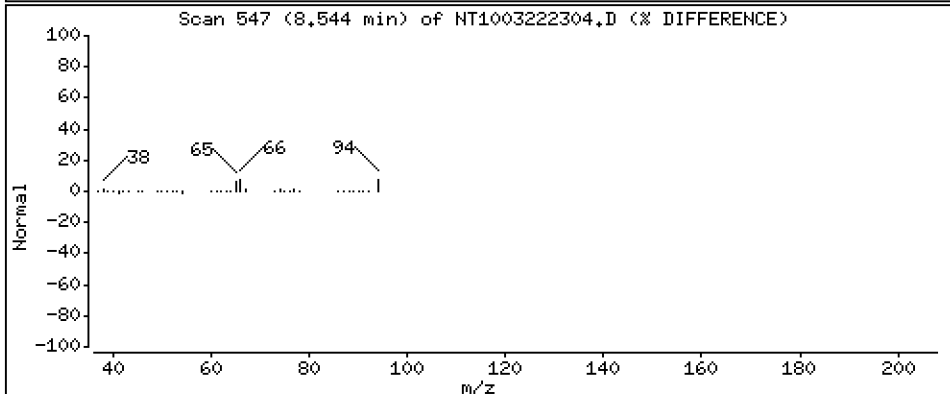
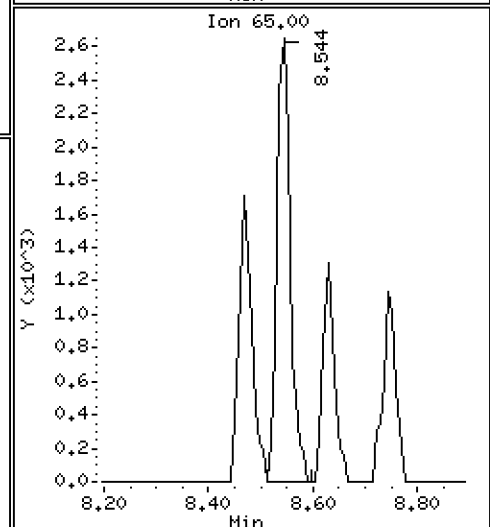
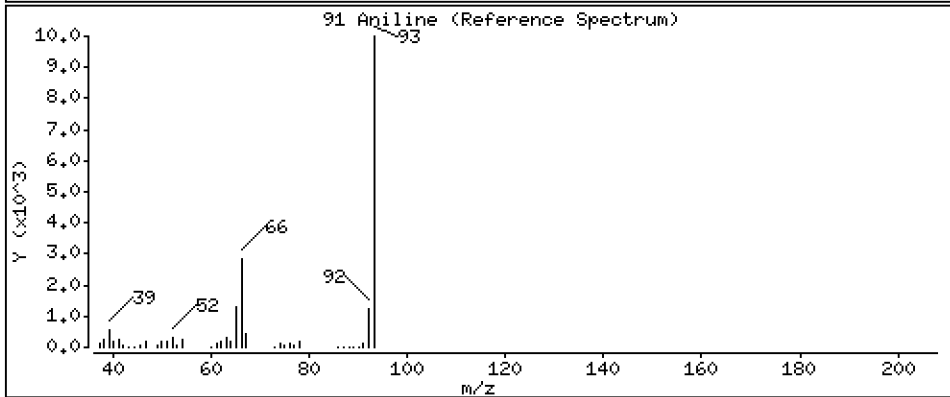
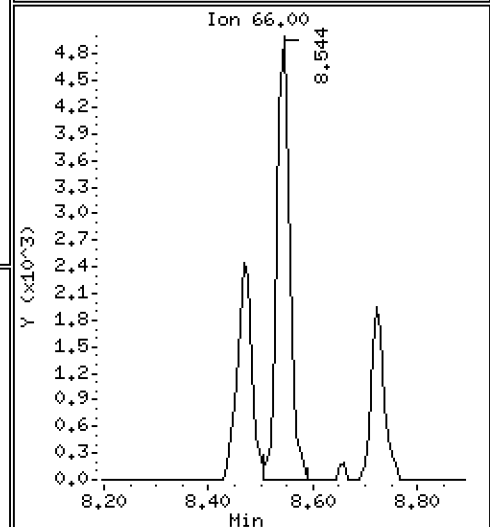
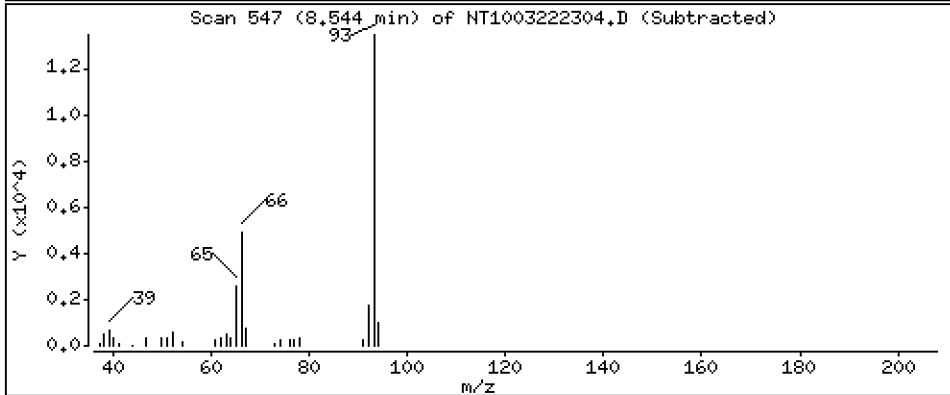
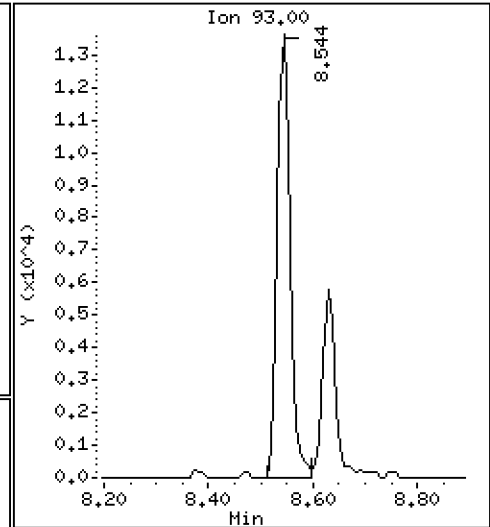
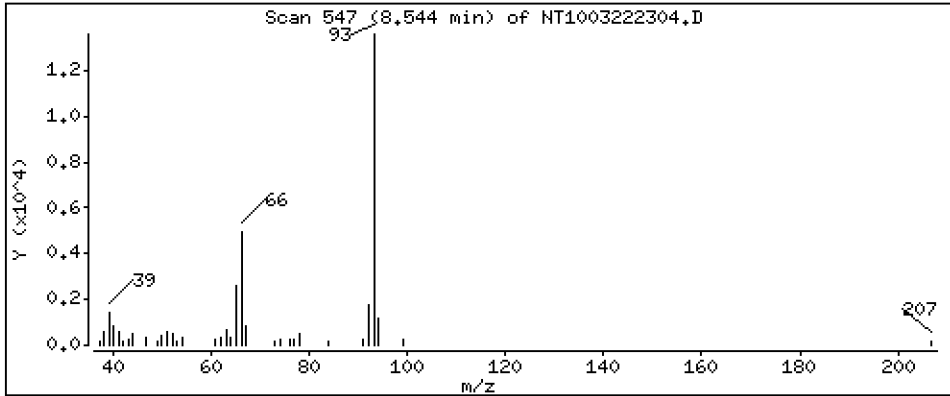
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

91 Aniline

Concentration: 0,3715 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

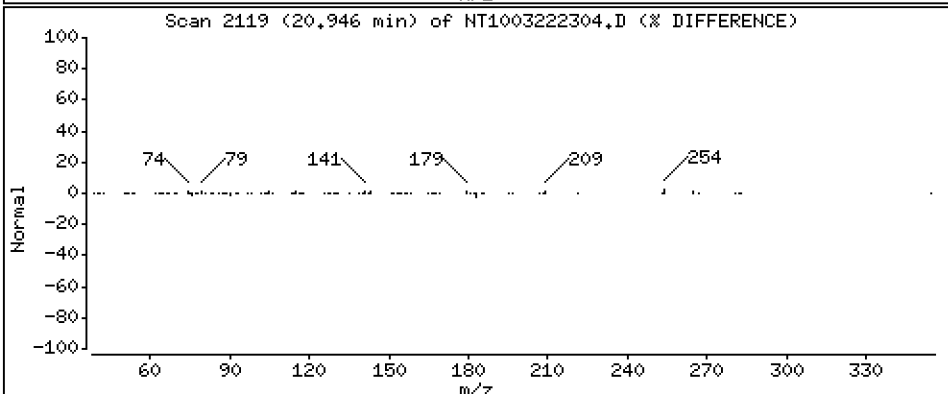
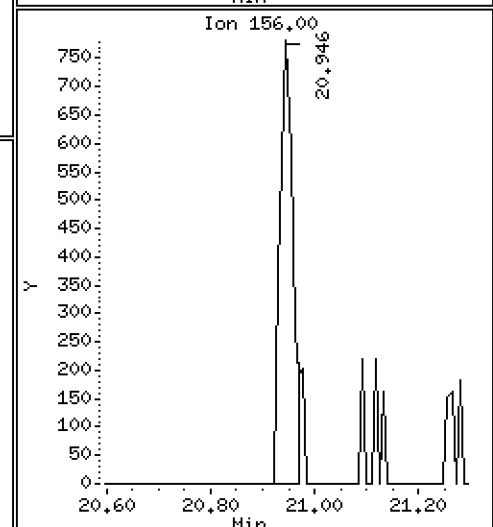
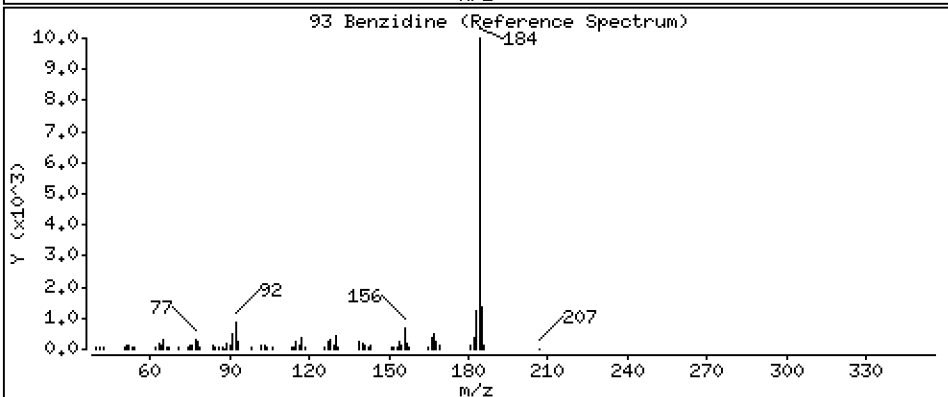
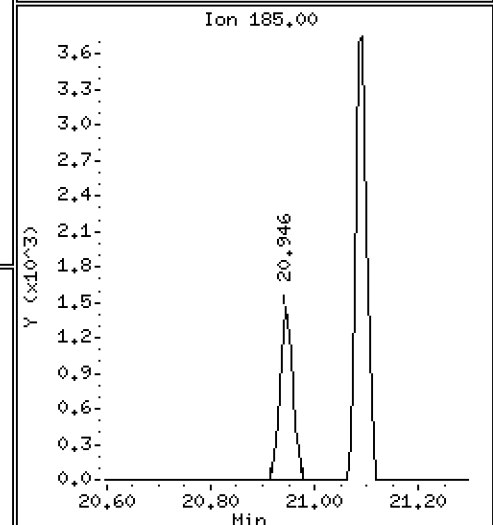
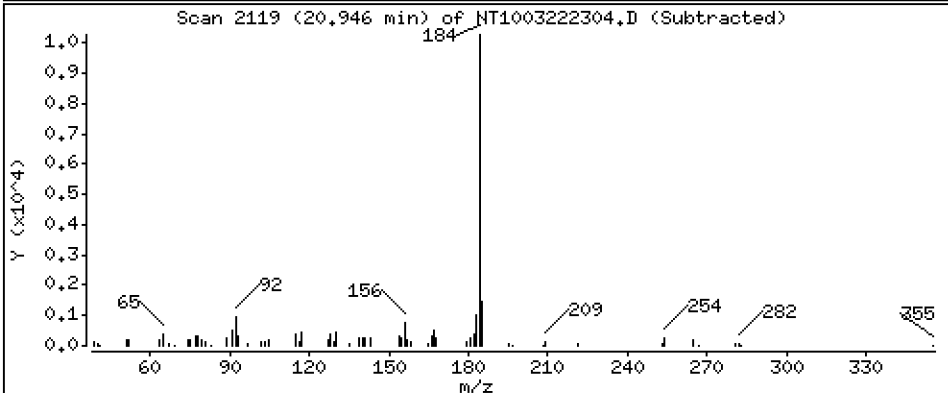
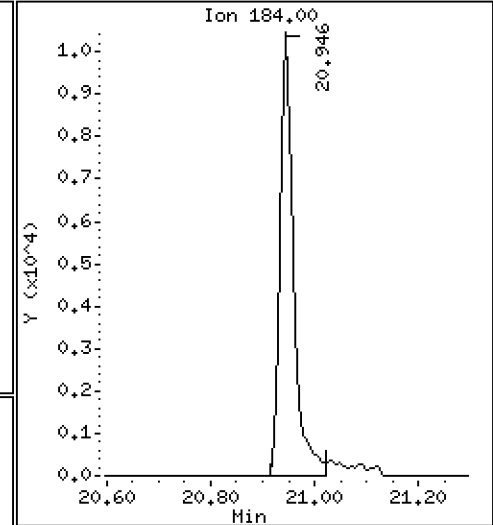
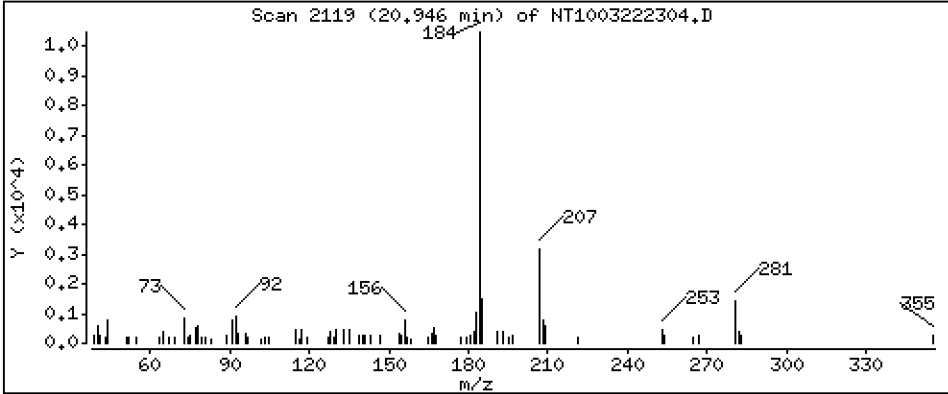
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

93 Benzidine

Concentration: 0,2508 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

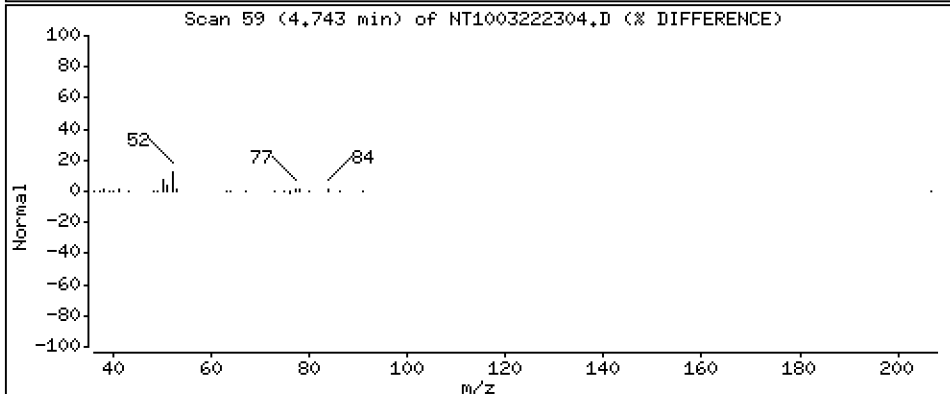
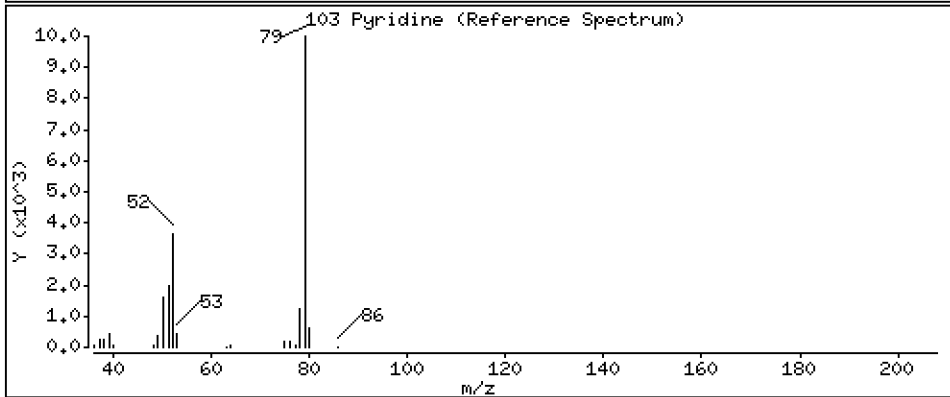
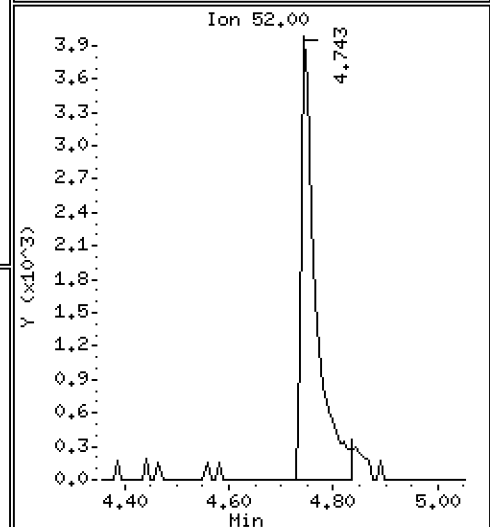
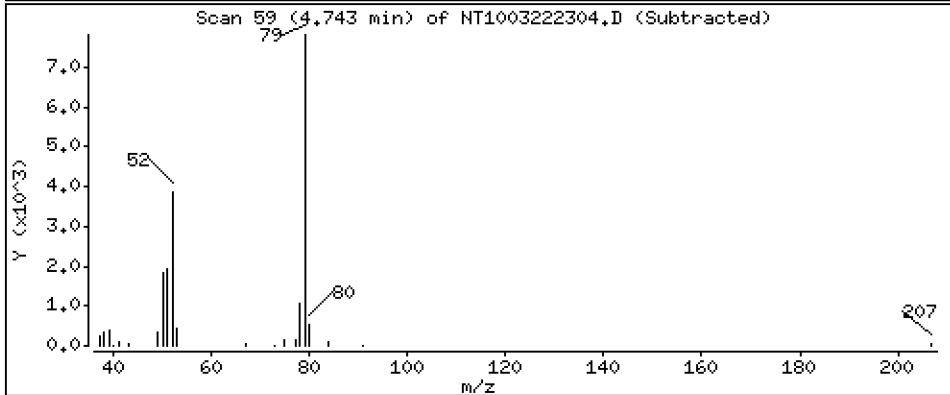
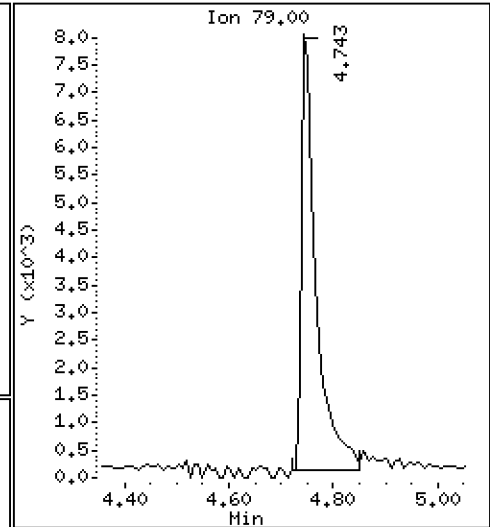
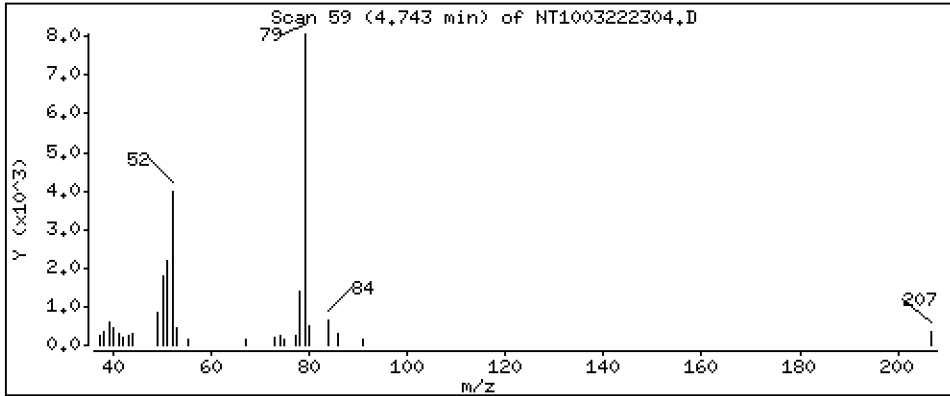
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

103 Pyridine

Concentration: 0,3765 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

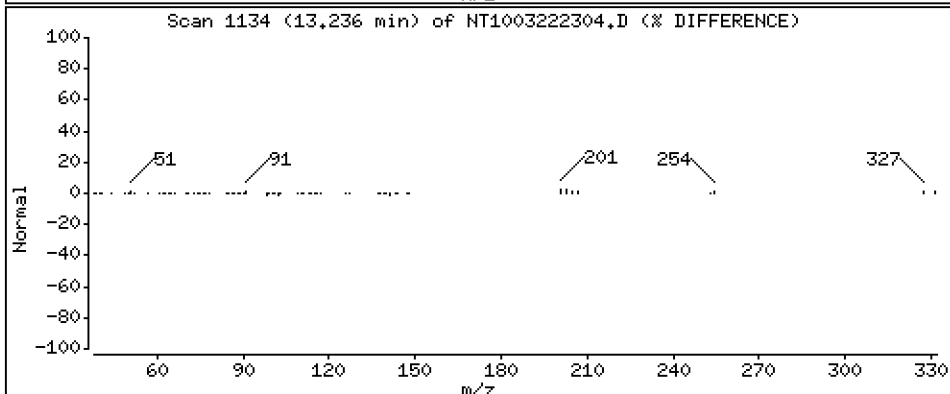
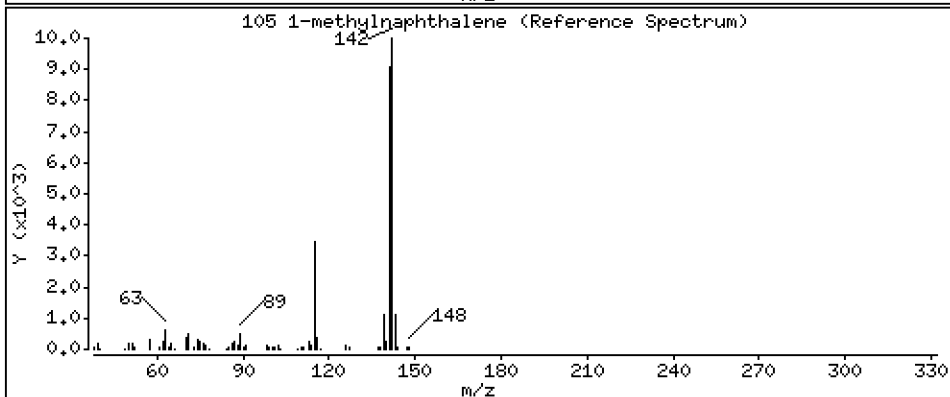
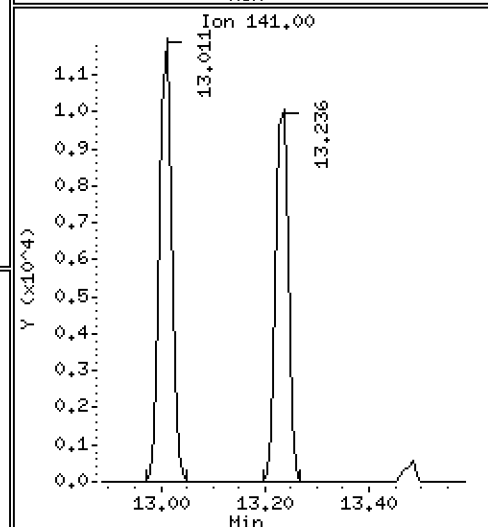
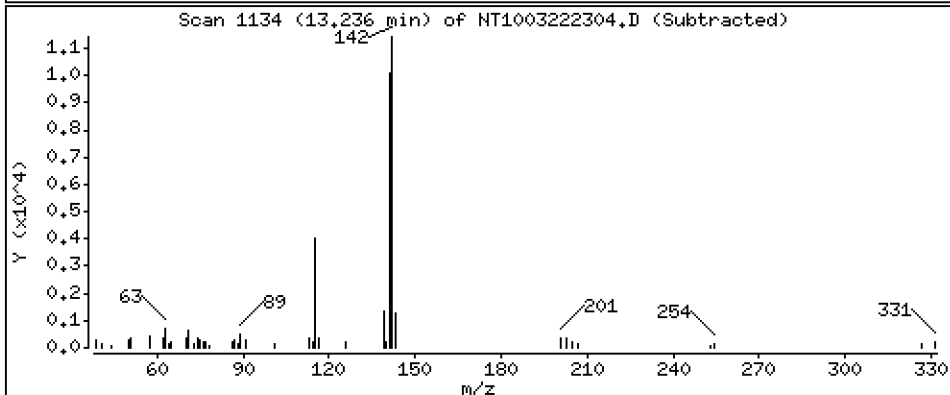
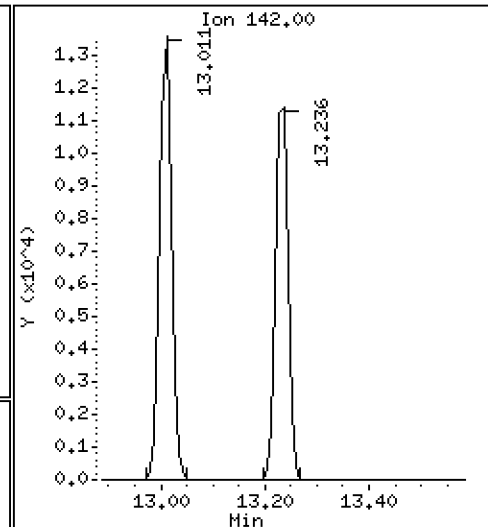
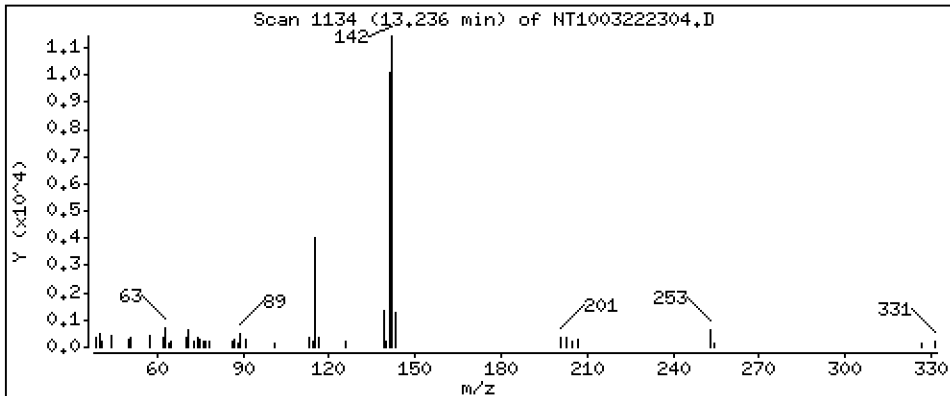
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 0,2057 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

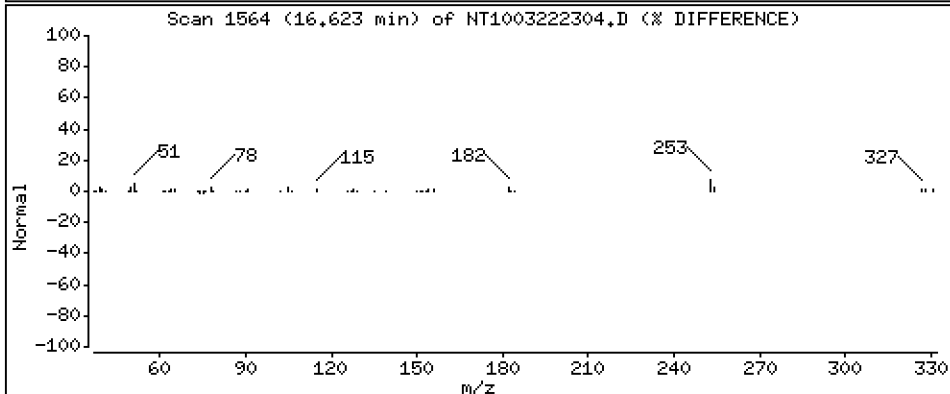
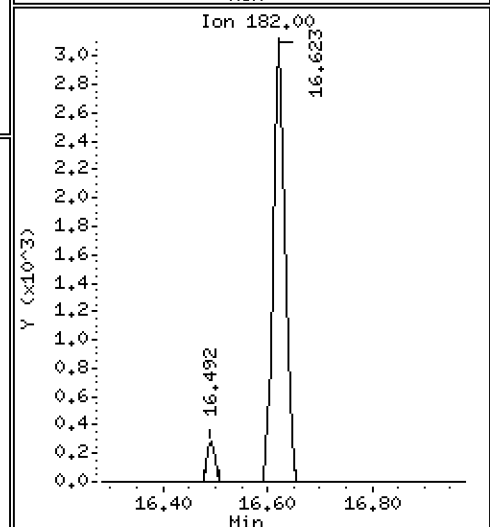
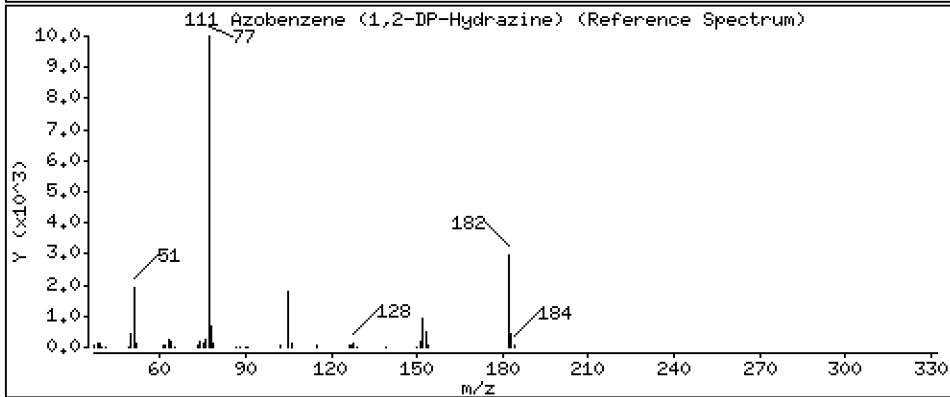
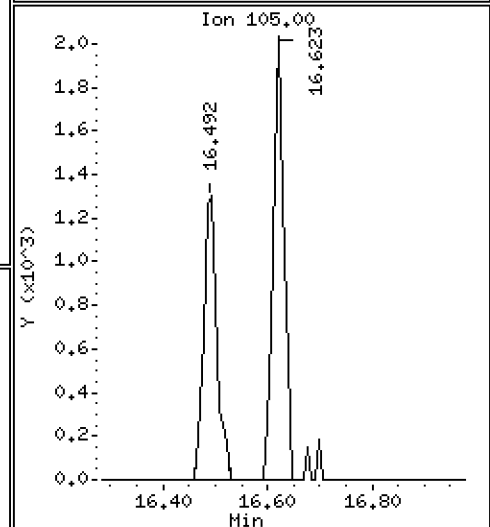
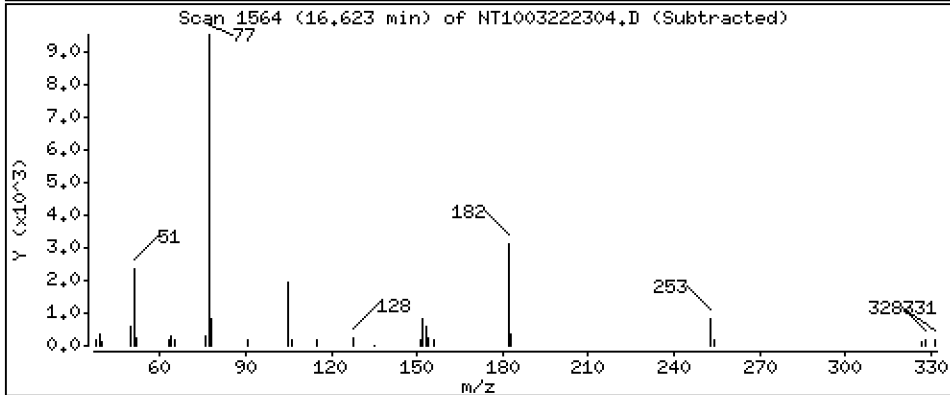
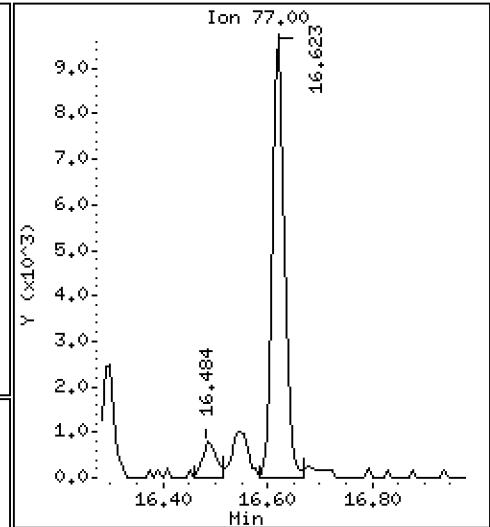
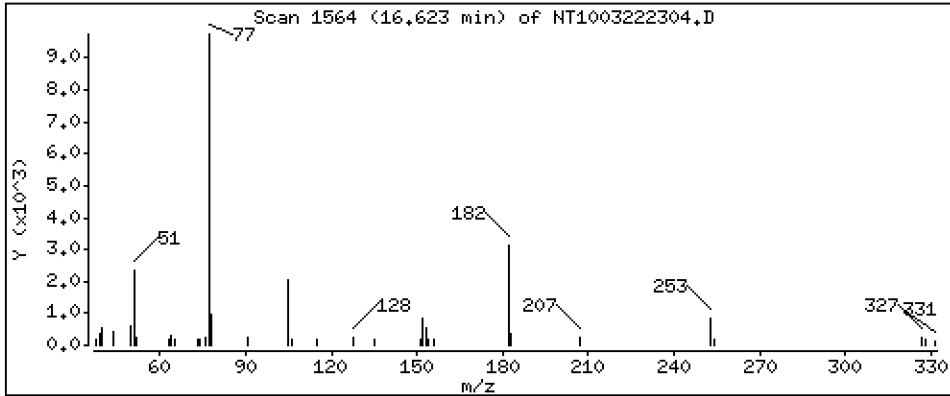
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 0,1573 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

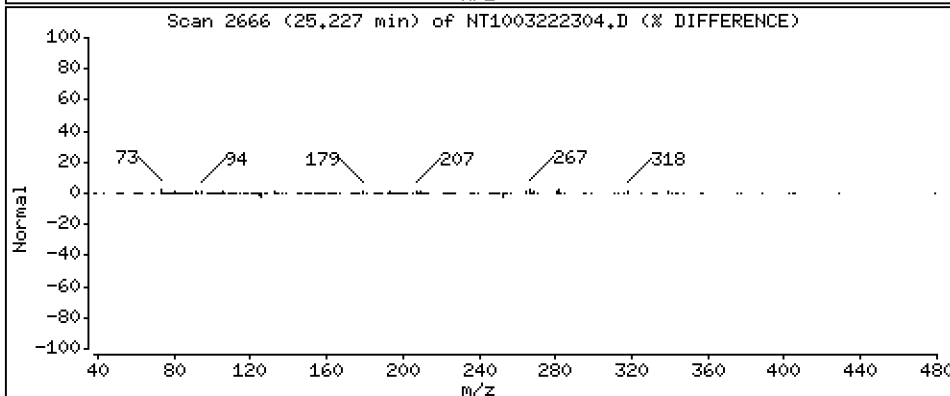
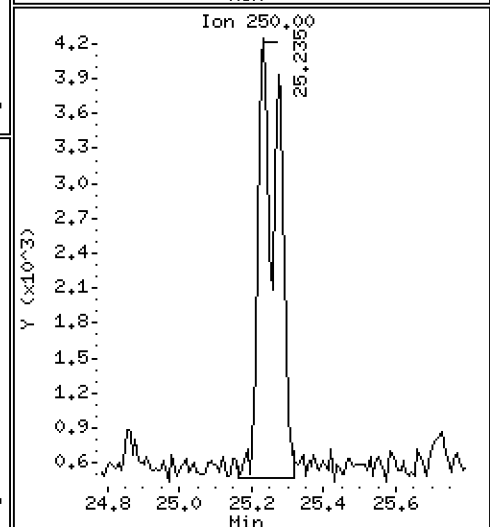
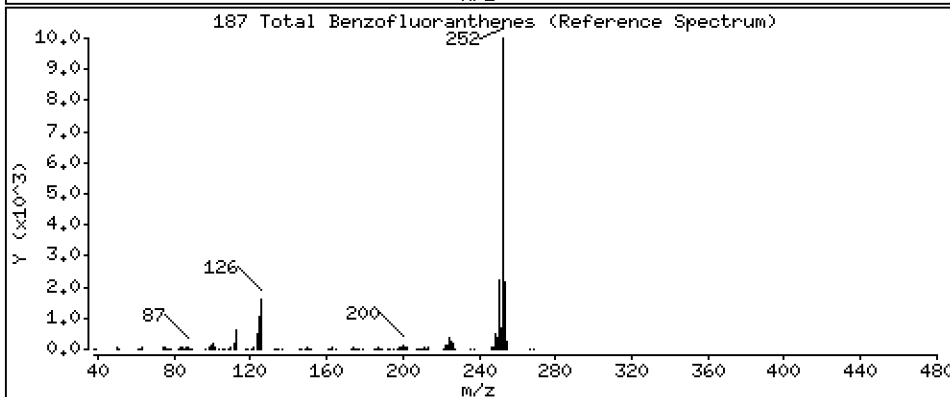
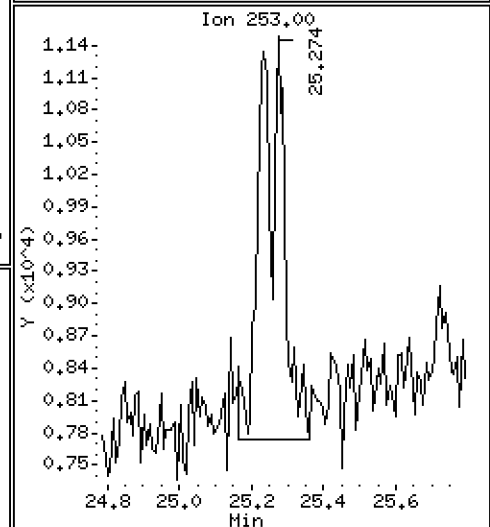
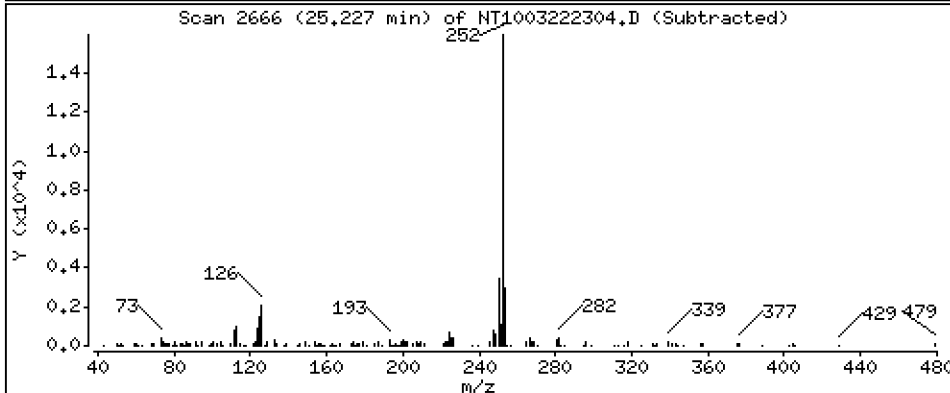
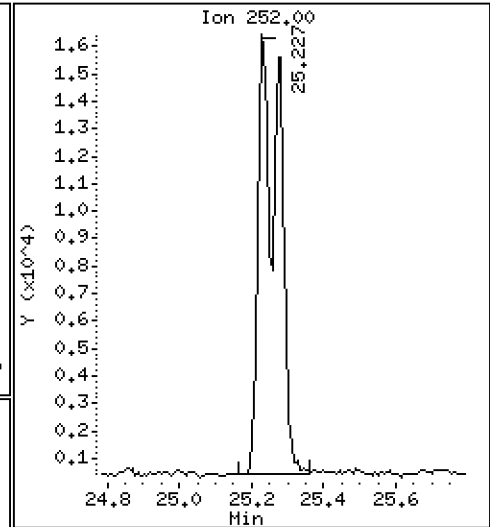
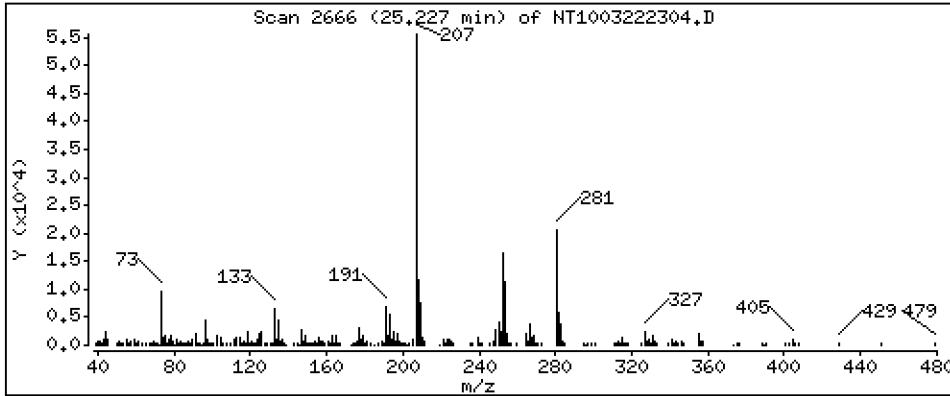
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 0,4084 ug/mL



Date : 22-MAR-2023 18:59

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV1

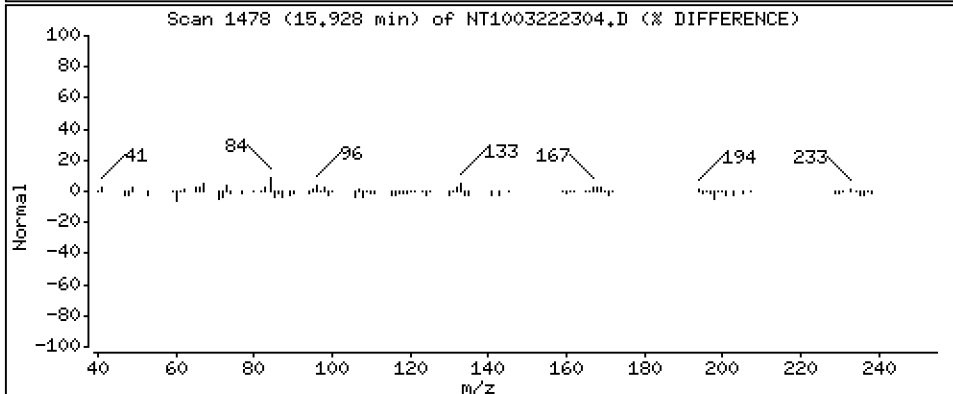
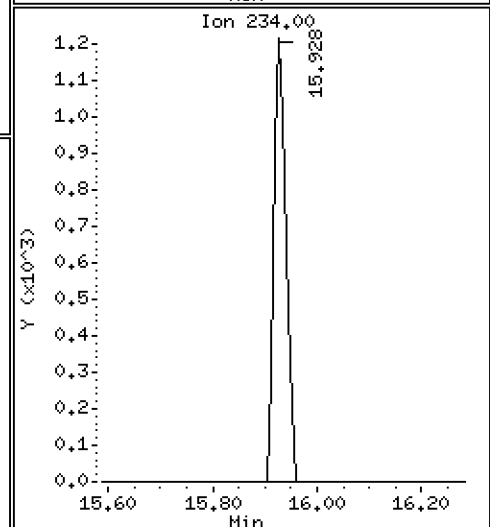
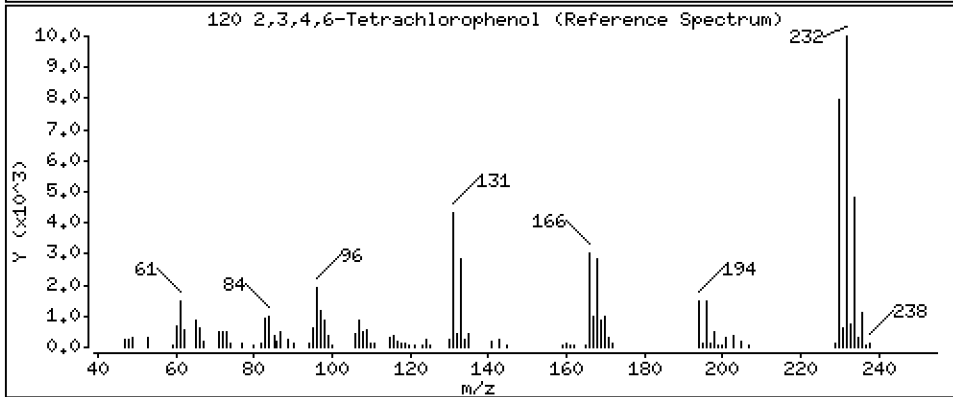
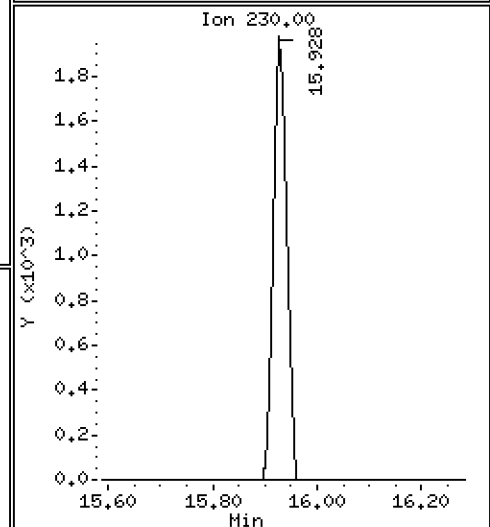
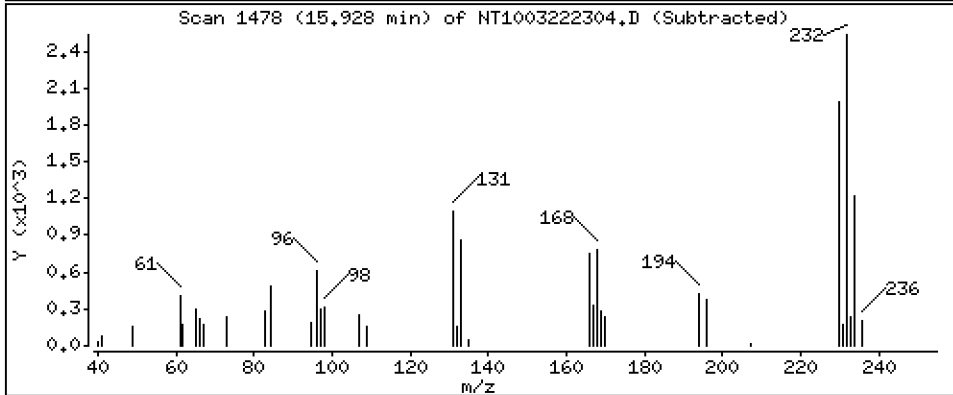
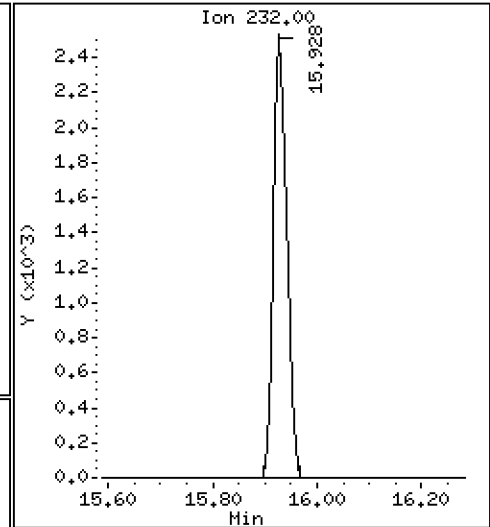
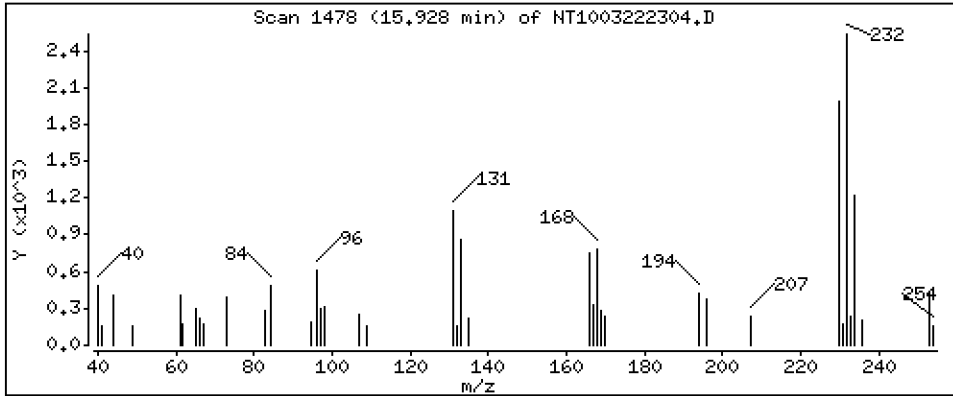
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

120 2,3,4,6-Tetrachlorophenol

Concentration: 0,1565 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230322.b\NT1003222304.D
 Lab Smp Id: SLC0397-LCV1
 Inj Date : 22-MAR-2023 18:59
 Operator : VTS
 Smp Info : SLC0397-LCV1
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt10.i\20230322.b\ABN.m
 Meth Date : 25-Mar-2023 07:55 van
 Cal Date : 16-MAR-2023 00:22
 Als bottle: 4
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: VANS-201906

Inst ID: nt10.i

Quant Type: ISTD
 Cal File: NT10031508.D

Compound Sublist: ICAL.sub

| Compounds | QUANT | SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|---------------------------------|-------|-----|--------|--------|---------|----------|----------------------|------------------|
| | | | | | | | ON-COLUMN (ug/mL) | FINAL (ug/mL) |
| \$ 1 2-Fluorophenol | 112 | | 6.859 | 6.851 | (0.755) | 12966 | 0.30189 | 0.3019 |
| \$ 2 Phenol-d5 | 99 | | 8.451 | 8.450 | (0.930) | 15517 | 0.27540 | 0.2754 |
| 3 Phenol | 94 | | 8.466 | 8.473 | (0.932) | 10955 | 0.18711 | 0.1871 |
| \$ 5 2-Chlorophenol-d4 | 132 | | 8.721 | 8.721 | (0.960) | 14282 | 0.29684 | 0.2968 |
| 4 Bis(2-Chloroethyl)ether | 93 | | 8.628 | 8.628 | (0.950) | 8771 | 0.20198 | 0.2020 |
| 6 2-Chlorophenol | 128 | | 8.752 | 8.752 | (0.963) | 9410 | 0.18779 | 0.1878 |
| 7 1,3-Dichlorobenzene | 146 | | 9.015 | 9.022 | (0.992) | 11613 | 0.21921 | 0.2192 |
| * 8 1,4-Dichlorobenzene-d4 | 152 | | 9.085 | 9.084 | (1.000) | 142022 | 4.00000 | |
| 9 1,4-Dichlorobenzene | 146 | | 9.116 | 9.115 | (1.003) | 10855 | 0.21211 | 0.2121 |
| \$ 10 1,2-Dichlorobenzene-d4 | 152 | | 9.442 | 9.449 | (1.039) | 7265 | 0.21026 | 0.2103 |
| 12 1,2-Dichlorobenzene | 146 | | 9.473 | 9.472 | (1.043) | 10817 | 0.21477 | 0.2148 |
| 11 Benzyl alcohol | 108 | | 9.364 | 9.356 | (1.031) | 4762 | 0.17328 | 0.1733 |
| 14 2,2'-oxybis(1-Chloropropane) | 121 | | 9.651 | 9.659 | (1.062) | 3016 | 0.20391 | 0.2039 (M) |
| 13 2-Methylphenol | 108 | | 9.589 | 9.589 | (1.056) | 7796 | 0.18266 | 0.1827 |
| 17 Hexachloroethane | 117 | | 10.063 | 10.062 | (1.108) | 4102 | 0.19536 | 0.1954 |
| 16 N-Nitroso-di-n-propylamine | 70 | | 9.915 | 9.923 | (1.091) | 5841 | 0.17332 | 0.1733 |
| 15 4-Methylphenol | 108 | | 9.853 | 9.853 | (1.085) | 7958 | 0.17696 | 0.1770 |
| \$ 18 Nitrobenzene-d5 | 82 | | 10.179 | 10.187 | (0.880) | 8828 | 0.17323 | 0.1732 |
| 19 Nitrobenzene | 77 | | 10.218 | 10.218 | (0.883) | 9268 | 0.18532 | 0.1853 |
| 20 Isophorone | 82 | | 10.668 | 10.668 | (0.922) | 10014 | 0.15653 | 0.1565 |
| 21 2-Nitrophenol | 139 | | 10.850 | 10.850 | (0.938) | 5353 | 0.22012 | 0.2201 (M) |
| 22 2,4-Dimethylphenol | 107 | | 10.901 | 10.901 | (0.942) | 16512 | 0.35947 | 0.3595 |
| 23 Bis(2-Chloroethoxy)methane | 93 | | 11.096 | 11.096 | (0.959) | 8305 | 0.19434 | 0.1943 |
| 24 Benzoic acid | 105 | | 10.994 | 11.104 | (0.950) | 7775 | 0.30470 | 0.3047 |
| 25 2,4-Dichlorophenol | 162 | | 11.300 | 11.300 | (0.976) | 13883 | 0.37768 | 0.3777 |
| 26 1,2,4-Trichlorobenzene | 180 | | 11.487 | 11.487 | (0.993) | 9517 | 0.22056 | 0.2206 |
| * 27 Naphthalene-d8 | 136 | | 11.572 | 11.572 | (1.000) | 504872 | 4.00000 | |
| 28 Naphthalene | 128 | | 11.611 | 11.611 | (1.003) | 28117 | 0.21022 | 0.2102 |
| 29 4-Chloroaniline | 127 | | 11.742 | 11.750 | (1.015) | 18626 | 0.35697 | 0.3570 |
| 30 Hexachlorobutadiene | 225 | | 11.974 | 11.974 | (1.035) | 6037 | 0.23878 | 0.2388 |
| 31 4-Chloro-3-methylphenol | 107 | | 12.709 | 12.709 | (1.098) | 13431 | 0.33752 | 0.3375 |
| 32 2-Methylnaphthalene | 142 | | 13.011 | 13.011 | (1.124) | 20613 | 0.21356 | 0.2136 |
| 33 Hexachlorocyclopentadiene | 237 | | 13.475 | 13.475 | (0.887) | 6066 | 0.23759 | 0.2376 |

| Compounds | QUANT SIG | | | | | CONCENTRATIONS | |
|-----------------------------------|-----------|--------|--------|---------|----------|----------------------|------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | ON-COLUMN (ug/mL) | FINAL (ug/mL) |
| 34 2,4,6-Trichlorophenol | 196 | 13.630 | 13.637 | (0.897) | 9955 | 0.36511 | 0.3651 |
| 35 2,4,5-Trichlorophenol | 196 | 13.707 | 13.707 | (0.902) | 10092 | 0.33311 | 0.3331 |
| § 36 2-Fluorobiphenyl | 172 | 13.793 | 13.800 | (0.908) | 22479 | 0.20599 | 0.2060 |
| 37 2-Chloronaphthalene | 162 | 14.001 | 14.009 | (0.922) | 17503 | 0.19809 | 0.1981 |
| 38 2-Nitroaniline | 65 | 14.265 | 14.272 | (0.939) | 6527 | 0.26297 | 0.2630 |
| 39 Dimethylphthalate | 163 | 14.698 | 14.706 | (0.967) | 18264 | 0.20380 | 0.2038 |
| 40 Acenaphthylene | 152 | 14.876 | 14.884 | (0.979) | 27295 | 0.19824 | 0.1982 |
| 41 2,6-Dinitrotoluene | 165 | 14.837 | 14.845 | (0.977) | 6279 | 0.32433 | 0.3243 |
| * 42 Acenaphthene-d10 | 164 | 15.193 | 15.193 | (1.000) | 275869 | 4.00000 | |
| 43 3-Nitroaniline | 138 | 15.124 | 15.131 | (0.995) | 5745 | 0.26291 | 0.2629 |
| 44 Acenaphthene | 153 | 15.255 | 15.263 | (1.004) | 16836 | 0.19793 | 0.1979 |
| 45 2,4-Dinitrophenol | 184 | 15.340 | 15.340 | (1.010) | 1817 | 0.15549 | 0.1555 (M) |
| 46 Dibenzofuran | 168 | 15.587 | 15.595 | (1.026) | 25515 | 0.20341 | 0.2034 |
| 47 4-Nitrophenol | 109 | 15.456 | 15.456 | (1.017) | 2179 | 0.15854 | 0.1585 |
| 48 2,4-Dinitrotoluene | 165 | 15.649 | 15.657 | (1.030) | 7887 | 0.26933 | 0.2693 |
| 50 Diethylphthalate | 149 | 16.160 | 16.175 | (1.064) | 20158 | 0.22925 | 0.2293 |
| 49 Fluorene | 166 | 16.299 | 16.306 | (1.073) | 20785 | 0.21062 | 0.2106 |
| 51 4-Chlorophenyl-phenylether | 204 | 16.299 | 16.298 | (1.073) | 10392 | 0.22145 | 0.2215 |
| 52 4-Nitroaniline | 138 | 16.399 | 16.406 | (1.079) | 4836 | 0.24558 | 0.2456 |
| 53 4,6-Dinitro-2-methylphenol | 198 | 16.491 | 16.499 | (0.904) | 5638 | 0.37315 | 0.3731 |
| 54 N-Nitrosodiphenylamine | 169 | 16.545 | 16.553 | (0.907) | 12819 | 0.19182 | 0.1918 |
| § 55 2,4,6-Tribromophenol | 330 | 16.838 | 16.846 | (1.108) | 3326 | 0.25625 | 0.2563 |
| 56 4-Bromophenyl-phenylether | 248 | 17.309 | 17.308 | (0.949) | 5746 | 0.20552 | 0.2055 |
| 57 Hexachlorobenzene | 284 | 17.618 | 17.626 | (0.966) | 6920 | 0.23608 | 0.2361 |
| 58 Pentachlorophenol | 266 | 17.982 | 17.990 | (0.986) | 3831 | 0.22090 | 0.2209 |
| * 59 Phenanthrene-d10 | 188 | 18.245 | 18.253 | (1.000) | 499862 | 4.00000 | |
| 60 Phenanthrene | 178 | 18.292 | 18.299 | (1.003) | 28189 | 0.20681 | 0.2068 |
| 61 Anthracene | 178 | 18.384 | 18.392 | (1.008) | 23797 | 0.18201 | 0.1820 |
| 62 Carbazole | 167 | 18.725 | 18.725 | (1.026) | 21462 | 0.18318 | 0.1832 |
| 63 Di-n-butylphthalate | 149 | 19.537 | 19.545 | (1.071) | 32529 | 0.20650 | 0.2065 |
| 64 Fluoranthene | 202 | 20.698 | 20.705 | (0.887) | 31900 | 0.18328 | 0.1833 |
| 65 Pyrene | 202 | 21.123 | 21.131 | (0.905) | 32670 | 0.18298 | 0.1830 |
| § 66 Terphenyl-d14 | 244 | 21.425 | 21.425 | (0.918) | 27049 | 0.20173 | 0.2017 |
| 67 Butylbenzylphthalate | 149 | 22.370 | 22.369 | (0.958) | 11514 | 0.18364 | 0.1836 |
| 68 Benzo(a)anthracene | 228 | 23.314 | 23.314 | (0.999) | 30657 | 0.20051 | 0.2005 |
| * 69 Chrysene-d12 | 240 | 23.345 | 23.345 | (1.000) | 433161 | 4.00000 | |
| 70 3,3'-Dichlorobenzidine | 252 | 23.276 | 23.275 | (0.997) | 28893 | 0.58997 | 0.5900 |
| 71 Chrysene | 228 | 23.384 | 23.392 | (1.002) | 30672 | 0.20534 | 0.2053 |
| 72 bis(2-Ethylhexyl)phthalate | 149 | 23.407 | 23.407 | (0.959) | 14932 | 0.16530 | 0.1653 |
| * 134 Di-n-octylphthalate-d4 | 153 | 24.414 | 24.413 | (1.000) | 617649 | 4.00000 | |
| 73 Di-n-octylphthalate | 149 | 24.421 | 24.429 | (1.000) | 33313 | 0.20610 | 0.2061 |
| 74 Benzo(b)fluoranthene | 252 | 25.227 | 25.242 | (0.969) | 34685 | 0.21619 | 0.2162 |
| 75 Benzo(k)fluoranthene | 252 | 25.273 | 25.288 | (0.971) | 31535 | 0.19357 | 0.1936 |
| 76 Benzo(a)pyrene | 252 | 25.900 | 25.908 | (0.995) | 29387 | 0.20487 | 0.2049 |
| * 77 Perylene-d12 | 264 | 26.024 | 26.024 | (1.000) | 494952 | 4.00000 | |
| 78 Indeno(1,2,3-cd)pyrene | 276 | 28.762 | 28.769 | (1.105) | 36004 | 0.19729 | 0.1973 |
| 79 Dibenzo(a,h)anthracene | 278 | 28.777 | 28.800 | (1.106) | 31325 | 0.20675 | 0.2068 |
| 80 Benzo(g,h,i)perylene | 276 | 29.562 | 29.577 | (1.136) | 32367 | 0.20494 | 0.2049 |
| 90 N-Nitrosodimethylamine | 74 | 4.689 | 4.673 | (0.516) | 10506 | 0.38342 | 0.3834 |
| 91 Aniline | 93 | 8.543 | 8.543 | (0.940) | 22290 | 0.37155 | 0.3715 |
| 93 Benzidine | 184 | 20.945 | 20.945 | (0.897) | 17929 | 0.25078 | 0.2508 |
| 103 Pyridine | 79 | 4.743 | 4.704 | (0.522) | 15845 | 0.37653 | 0.3765 |
| 105 1-methylnaphthalene | 142 | 13.235 | 13.235 | (1.144) | 18195 | 0.20575 | 0.2057 |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77 | 16.622 | 16.630 | (1.094) | 15446 | 0.15726 | 0.1573 |

| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|-------------------------------|-----------|--------|--------|---------|----------|----------------------|------------------|
| | | | | | | ON-COLUMN (ug/mL) | FINAL (ug/mL) |
| 187 Total Benzofluoranthenes | 252 | 25.227 | 25.288 | (0.969) | 63258 | 0.40836 | 0.4084 |
| 120 2,3,4,6-Tetrachlorophenol | 232 | 15.928 | 15.935 | (1.048) | 4346 | 0.15649 | 0.1565 |

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 22-MAR-2023
 Lab File ID: NT1003222304.D Calibration Time: 17:42
 Lab Smp Id: SLC0397-LCV1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt10.i\20230322.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|--------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 122478 | 61239 | 244956 | 142022 | 15.96 |
| 27 Naphthalene-d8 | 459261 | 229631 | 918522 | 504872 | 9.93 |
| 42 Acenaphthene-d10 | 264106 | 132053 | 528212 | 275869 | 4.45 |
| 59 Phenanthrene-d10 | 503255 | 251628 | 1006510 | 499862 | -0.67 |
| 69 Chrysene-d12 | 437735 | 218868 | 875470 | 433161 | -1.04 |
| 134 Di-n-octylphthala | 700191 | 350096 | 1400382 | 617649 | -11.79 |
| 77 Perylene-d12 | 499049 | 249525 | 998098 | 494952 | -0.82 |

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

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

REVIEW SUMMARY FOR FILE - NT1003222304.D

Lab ID: SLC0397-LCV1
nt10.i, 20230322.b\ABN.m, 22-MAR-2023 18:59

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT | CCV RRT | DELTA | COMPOUND |
|-------|---------|---------|--------------|
| 0.950 | 0.960 | -0.0095 | Benzoic acid |

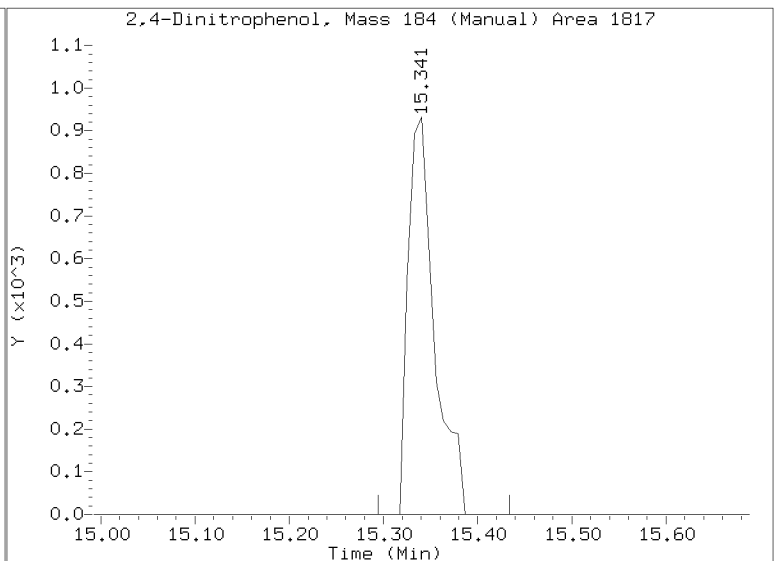
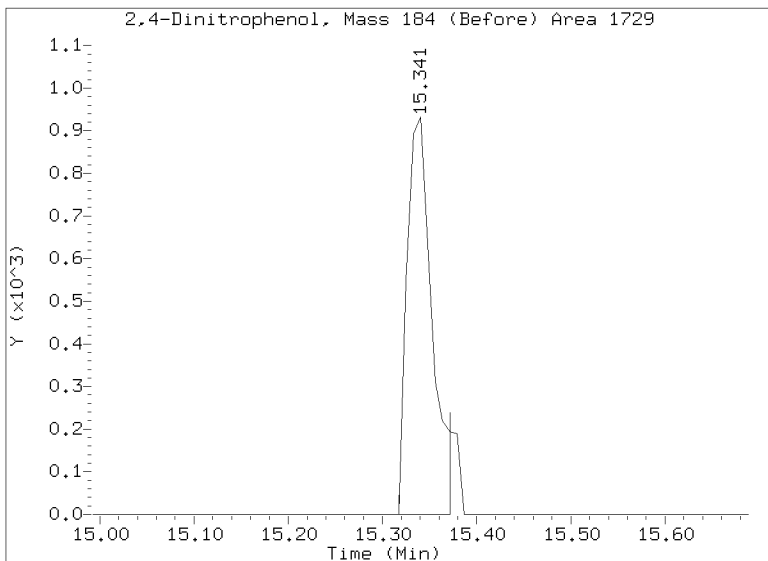
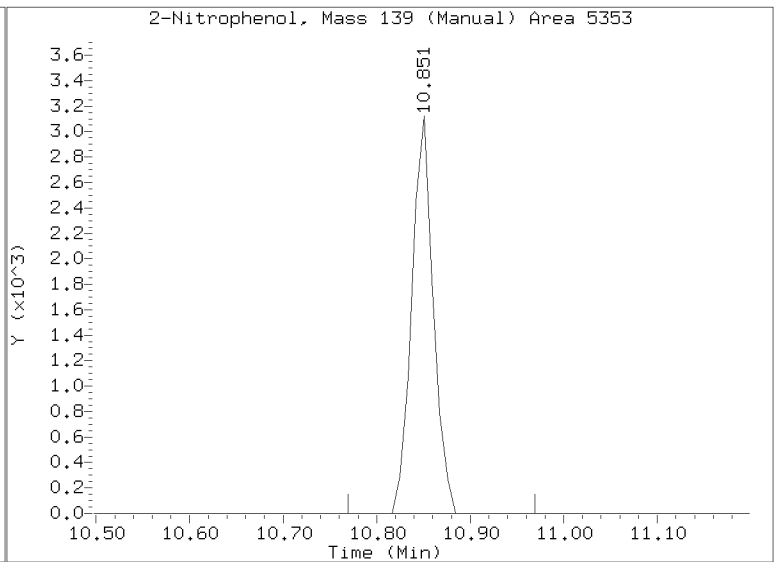
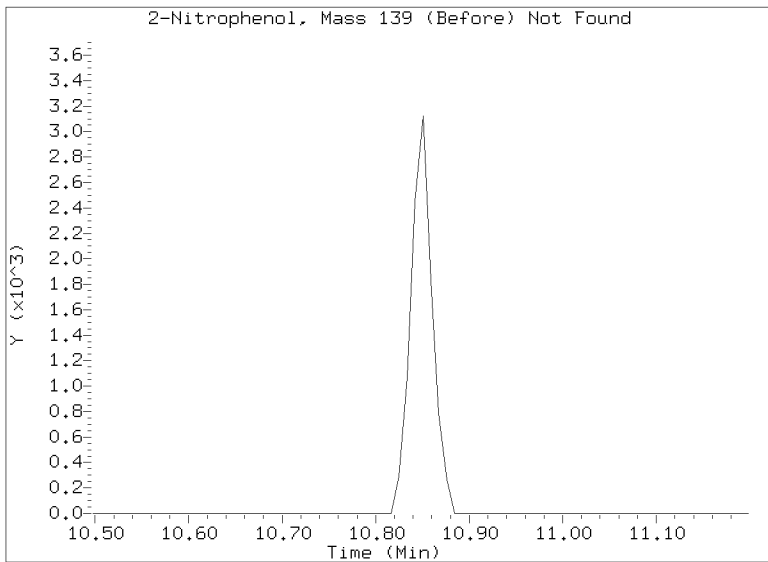
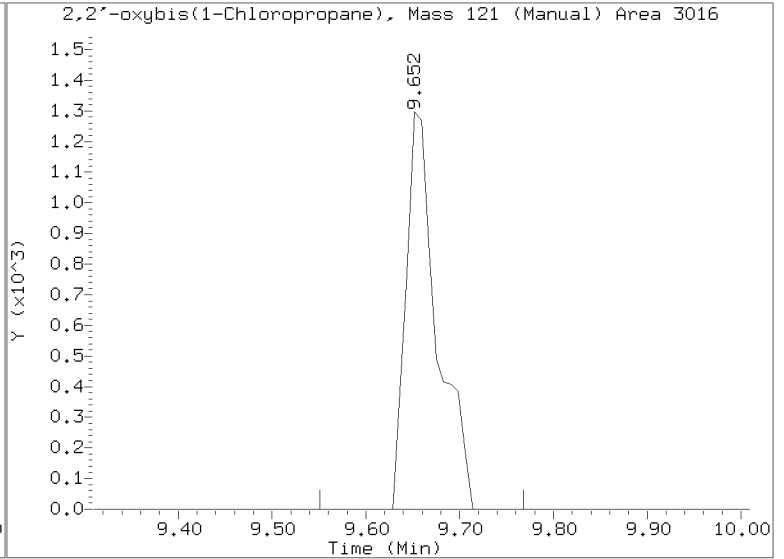
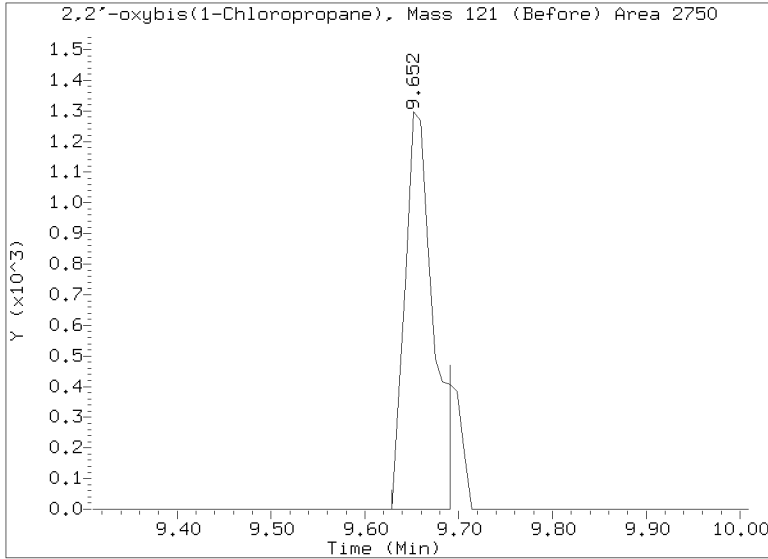
RRT check based on Ccal File: NT1003222302.D

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

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230322.b/NT1003222304.D
Injection Date: 22-MAR-2023 18:59
Lab ID:SLC0397-LCV1 Client ID:
Report Date: 03/25/2023 07:55





**LOW-CONCENTRATION
CONTINUING CALIBRATION CHECK
EPA 8270E**

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: NT10

Calibration: GC00046

Lab File ID: NT1003222319.D

Calibration Date: 03/15/2023

Sequence: SLC0397

Injection Date: 03/23/23

Lab Sample ID: SLC0397-LCV2

Injection Time: 04:30

Sequence Name: ABN 0.2

| COMPOUND | TYPE | CONC. (ug/mL) | | RESPONSE FACTOR (RRF) | | | % DRIFT/DIFF | |
|----------------------------|------|---------------|-------|-----------------------|-----------|-----|--------------|-------|
| | | STD | CCV | ICAL | CCV | MIN | CCV | LIMIT |
| Phenol | A | 0.20000 | 0.2 | 1.6490140 | 1.5803650 | | -4.2 | +/-50 |
| 4-Methylphenol | A | 0.20000 | 0.2 | 1.2665770 | 1.1884300 | | -6.2 | +/-50 |
| Naphthalene | A | 0.20000 | 0.2 | 1.0596590 | 1.1016750 | | 4.0 | +/-50 |
| 2-Methylnaphthalene | A | 0.20000 | 0.2 | 0.7647129 | 0.8169998 | | 6.8 | +/-50 |
| Acenaphthylene | A | 0.20000 | 0.2 | 1.9964080 | 2.0742080 | | 3.9 | +/-50 |
| Dimethylphthalate | A | 0.20000 | 0.2 | 1.2994310 | 1.3793230 | | 6.2 | +/-50 |
| Acenaphthene | A | 0.20000 | 0.2 | 1.2333460 | 1.2731160 | | 3.2 | +/-50 |
| Dibenzofuran | A | 0.20000 | 0.2 | 1.8187540 | 1.8597350 | | 2.3 | +/-50 |
| Fluorene | A | 0.20000 | 0.2 | 1.4308680 | 1.5148080 | | 5.9 | +/-50 |
| Phenanthrene | A | 0.20000 | 0.2 | 1.0907130 | 1.1433140 | | 4.8 | +/-50 |
| Anthracene | A | 0.20000 | 0.2 | 1.0462760 | 1.0498950 | | 0.3 | +/-50 |
| Fluoranthene | A | 0.20000 | 0.2 | 1.6072690 | 1.4474660 | | -9.9 | +/-50 |
| Pyrene | A | 0.20000 | 0.2 | 1.6487720 | 1.4763360 | | -10.5 | +/-50 |
| Butylbenzylphthalate | A | 0.20000 | 0.2 | 0.5292894 | 0.6246278 | | 7.9 | +/-50 |
| Benzo(a)anthracene | A | 0.20000 | 0.2 | 1.4118770 | 1.5151300 | | 7.3 | +/-50 |
| Chrysene | A | 0.20000 | 0.2 | 1.3793780 | 1.4094840 | | 2.2 | +/-50 |
| bis(2-Ethylhexyl)phthalate | A | 0.20000 | 0.2 | 0.5248968 | 0.5476900 | | -6.4 | +/-50 |
| Benzofluoranthenes, Total | A | 0.40000 | 0.4 | 1.2519020 | 1.3398540 | | 7.0 | +/-50 |
| Benzo(a)pyrene | A | 0.20000 | 0.2 | 1.1592370 | 1.2502590 | | 7.9 | +/-50 |
| Indeno(1,2,3-cd)pyrene | A | 0.20000 | 0.2 | 1.4748270 | 1.4900950 | | 1.0 | +/-50 |
| Dibenzo(a,h)anthracene | A | 0.20000 | 0.2 | 1.2244340 | 1.2708620 | | 3.8 | +/-50 |
| Benzo(g,h,i)perylene | A | 0.20000 | 0.2 | 1.2763410 | 1.2105250 | | -5.2 | +/-50 |
| 2-Fluorophenol | A | 0.30000 | 0.302 | 1.2096460 | 1.2182780 | | 0.7 | +/-50 |
| Phenol-d5 | A | 0.30000 | 0.289 | 1.5868760 | 1.5283030 | | -3.7 | +/-50 |
| 2-Chlorophenol-d4 | A | 0.30000 | 0.302 | 1.3550800 | 1.3643850 | | 0.7 | +/-50 |
| 1,2-Dichlorobenzene-d4 | A | 0.20000 | 0.207 | 0.9731556 | 1.0084630 | | 3.6 | +/-50 |
| Nitrobenzene-d5 | A | 0.20000 | 0.194 | 0.4037447 | 0.3919219 | | -2.9 | +/-50 |
| 2-Fluorobiphenyl | A | 0.20000 | 0.213 | 1.5822890 | 1.6840690 | | 6.4 | +/-50 |
| 2,4,6-Tribromophenol | A | 0.30000 | 0.282 | 0.1585901 | 0.1768852 | | -6.0 | +/-50 |
| p-Terphenyl-d14 | A | 0.20000 | 0.199 | 1.2381950 | 1.2291820 | | -0.7 | +/-50 |

* Values outside of QC limits

Data File: \\target\share\chem3\nt10.1\20230322.16\NT1003222319.D

Date: 23-MAR-2023 04:30

Client ID:

Sample Info: SLC0397-LCW2

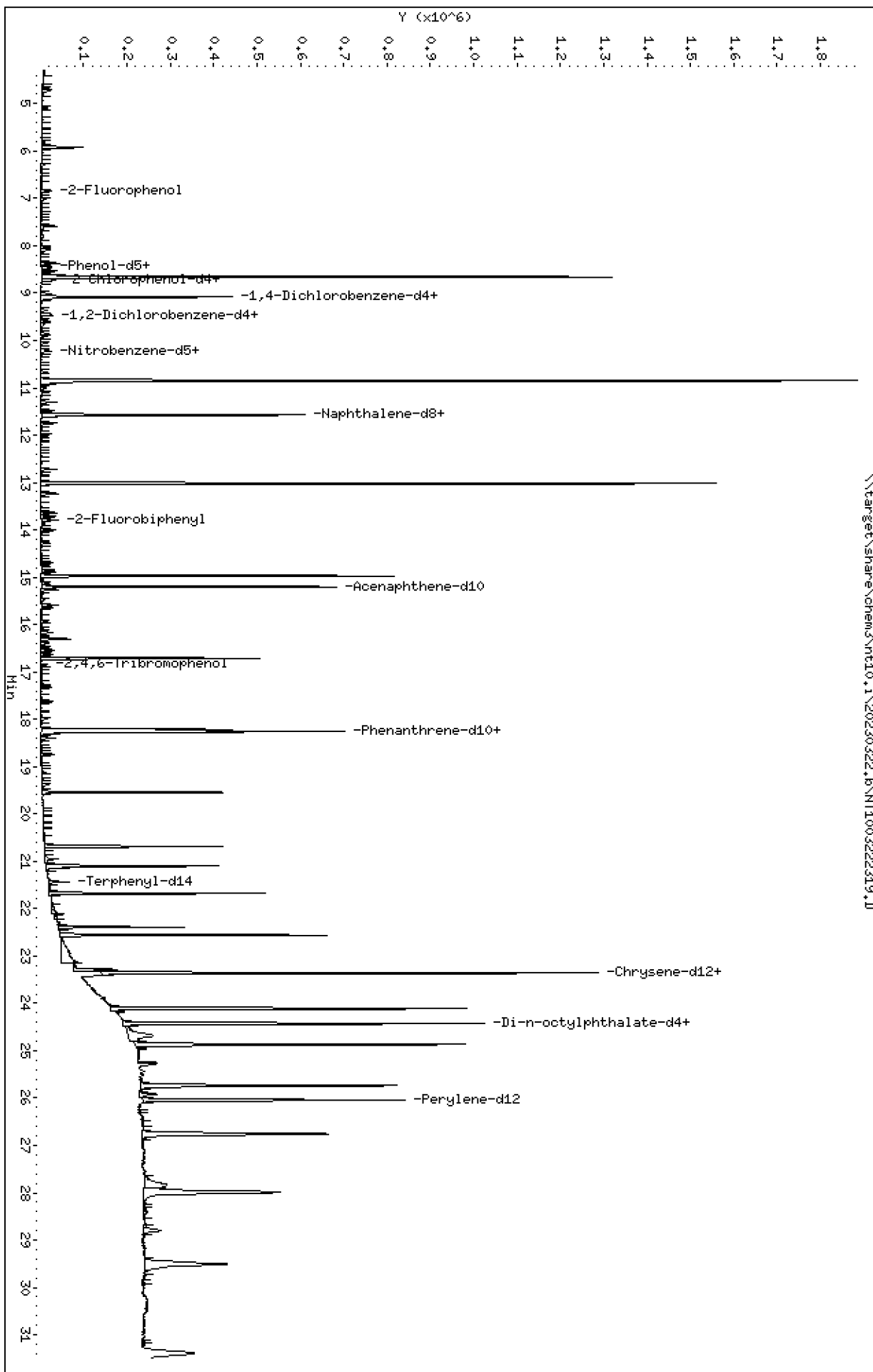
Column phase: ZB-5msi

Instrument: nt10.1

Operator: VTS

Column diameter: 0.25

Page 1



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

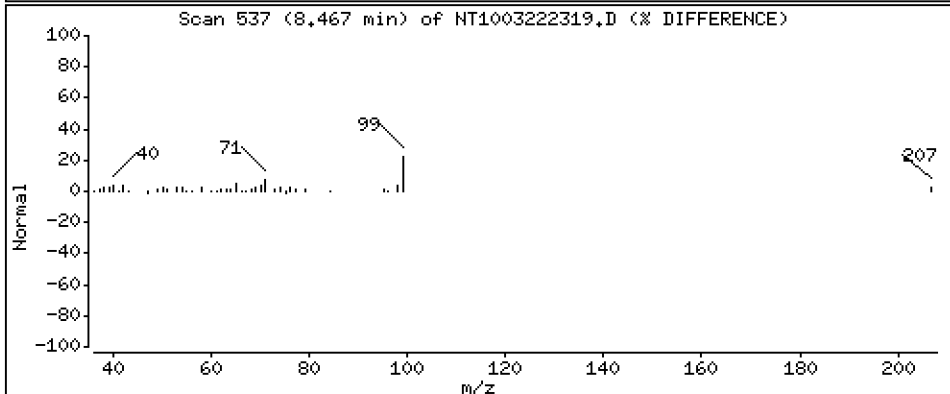
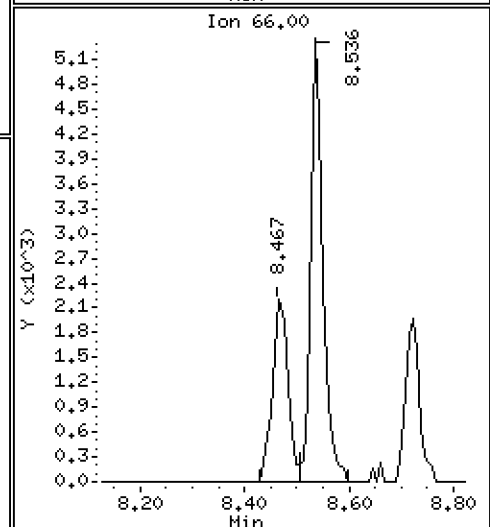
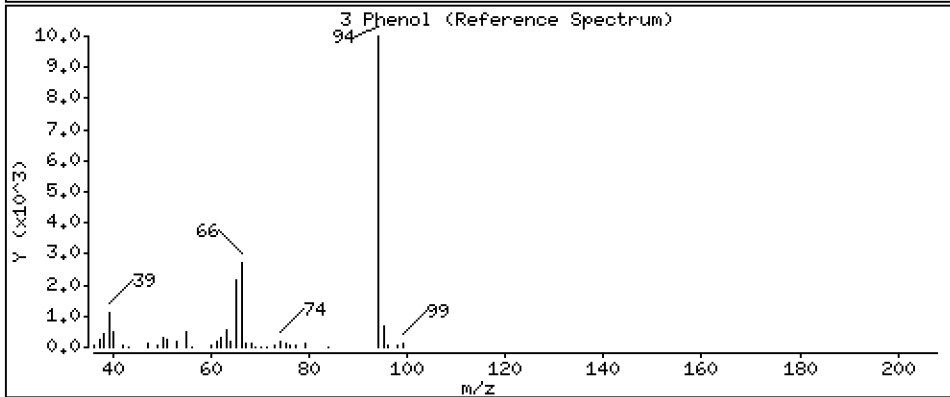
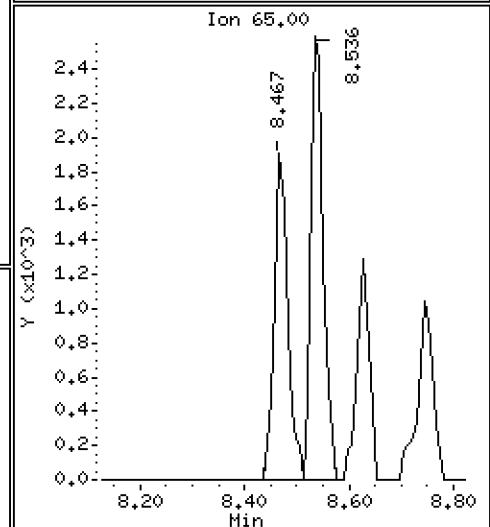
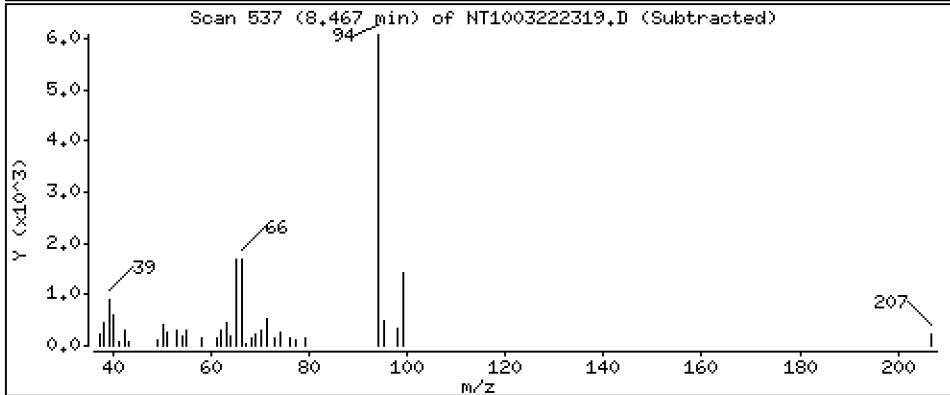
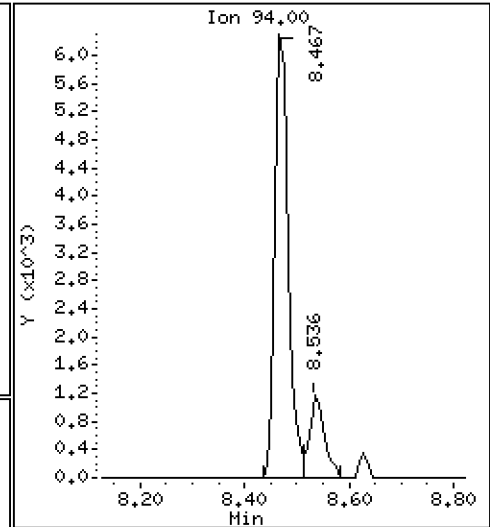
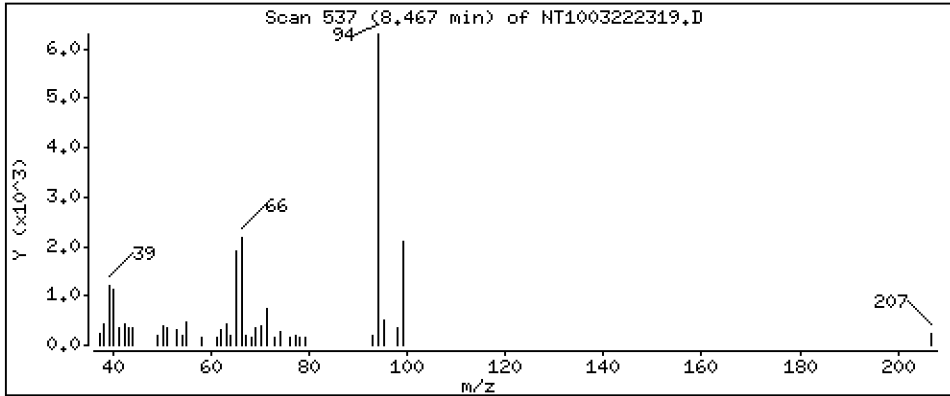
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

3 Phenol

Concentration: 0.1917 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

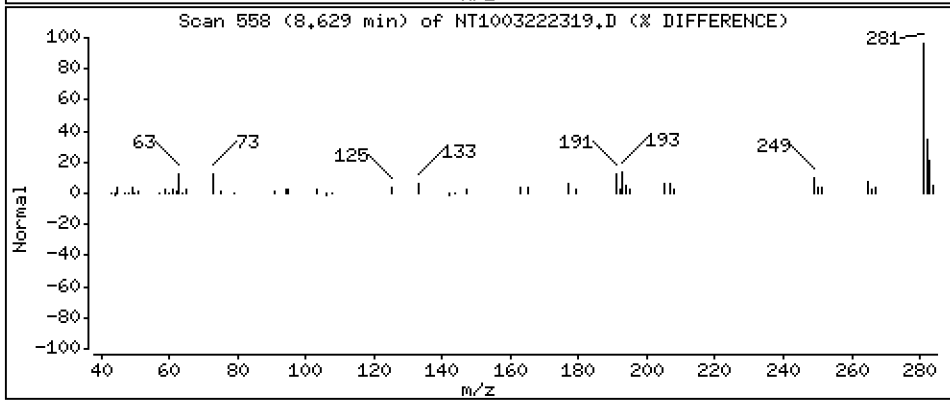
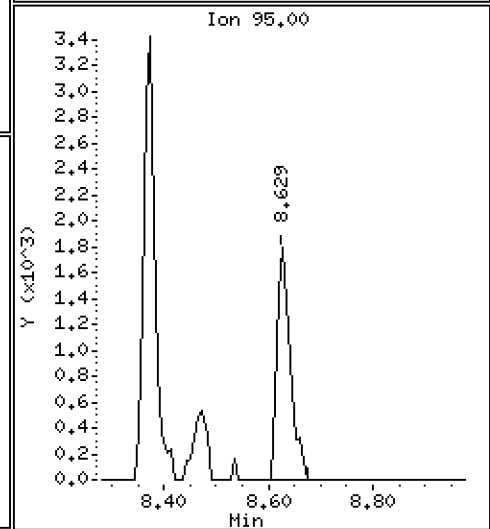
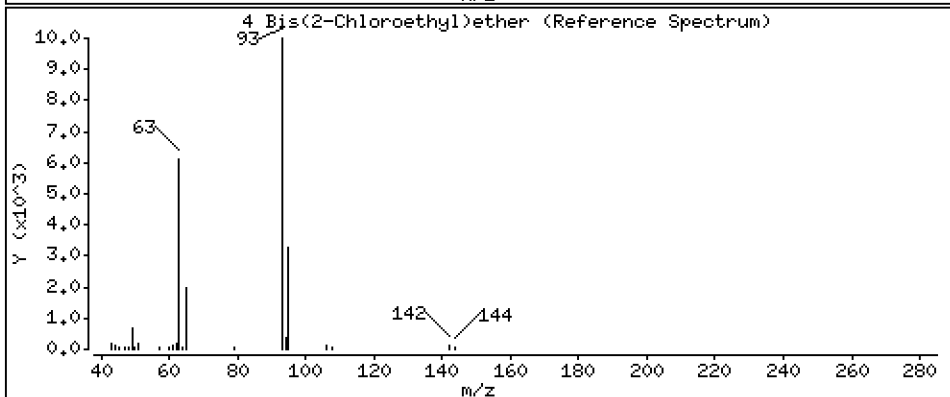
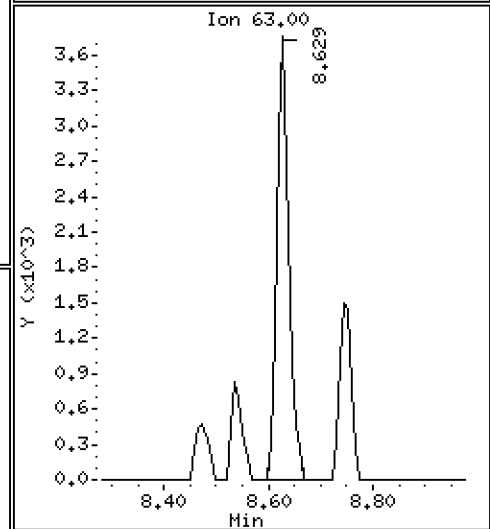
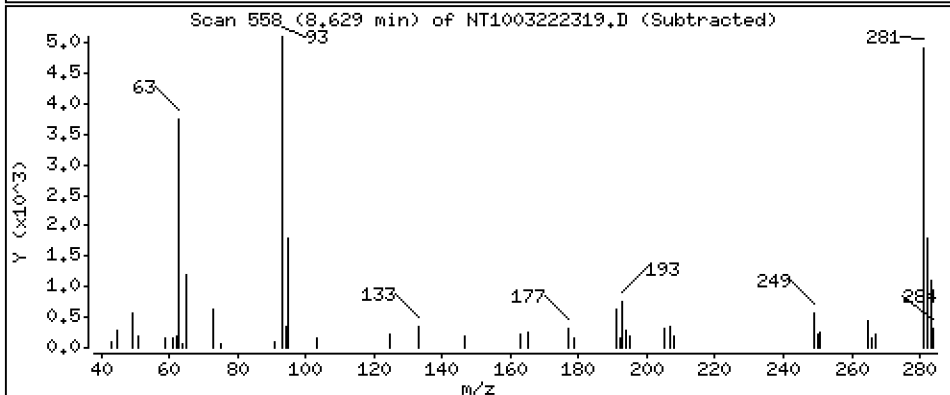
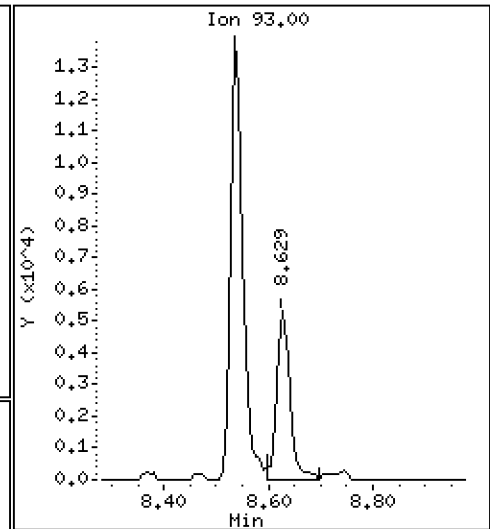
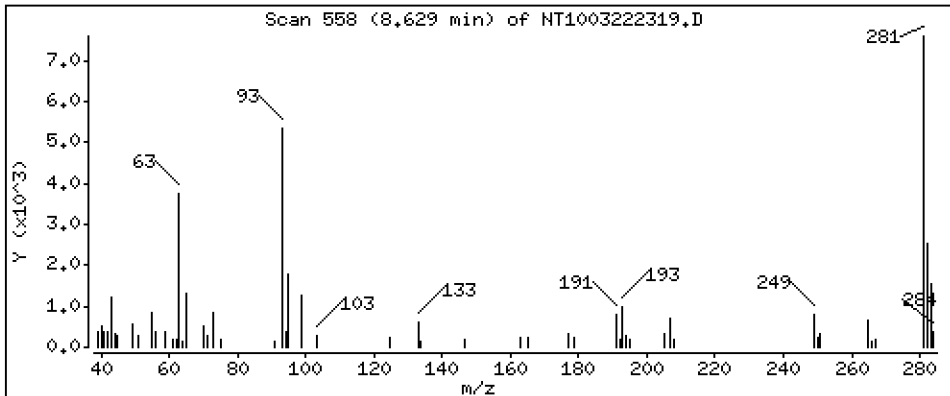
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

4 Bis(2-Chloroethyl)ether

Concentration: 0.2169 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

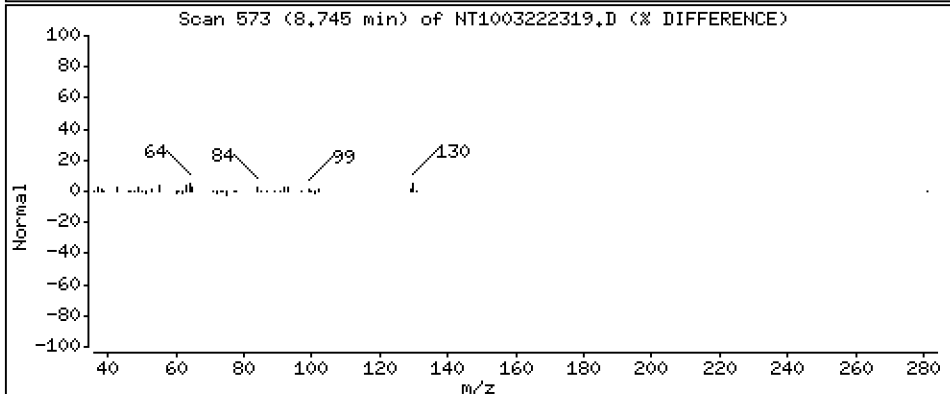
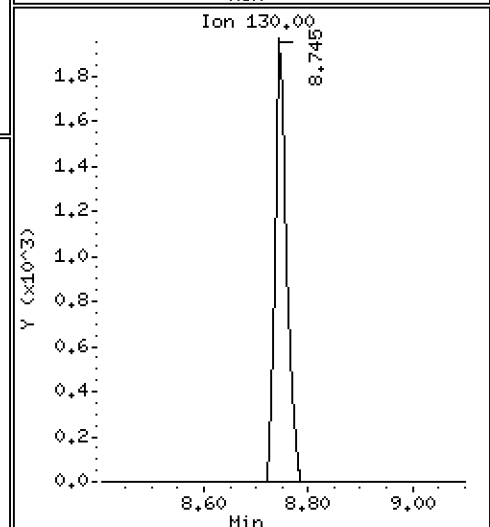
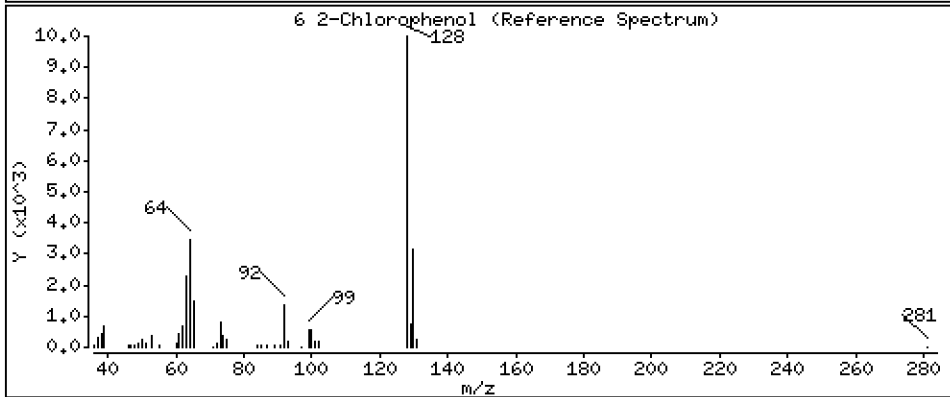
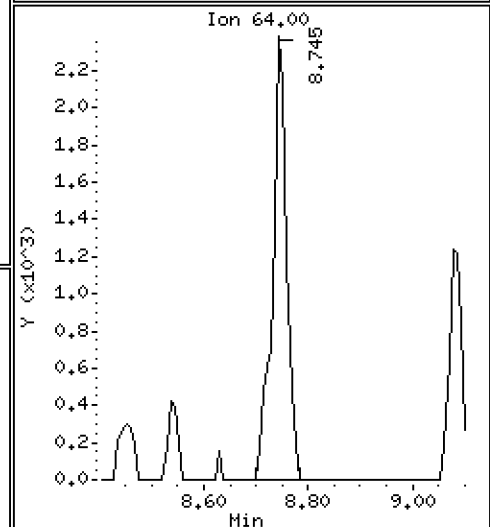
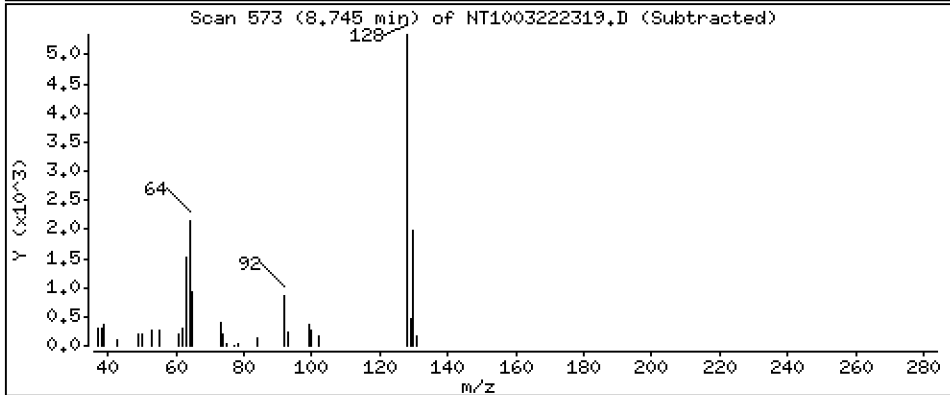
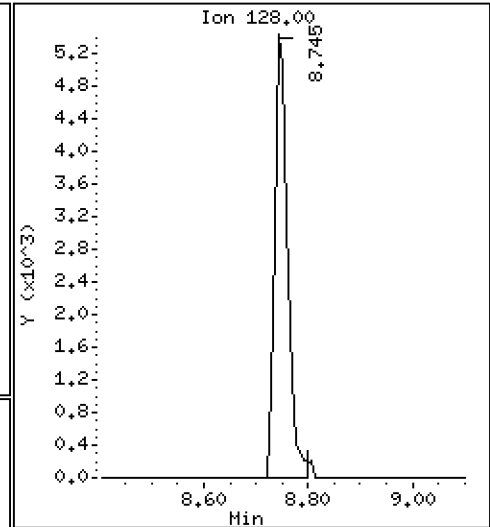
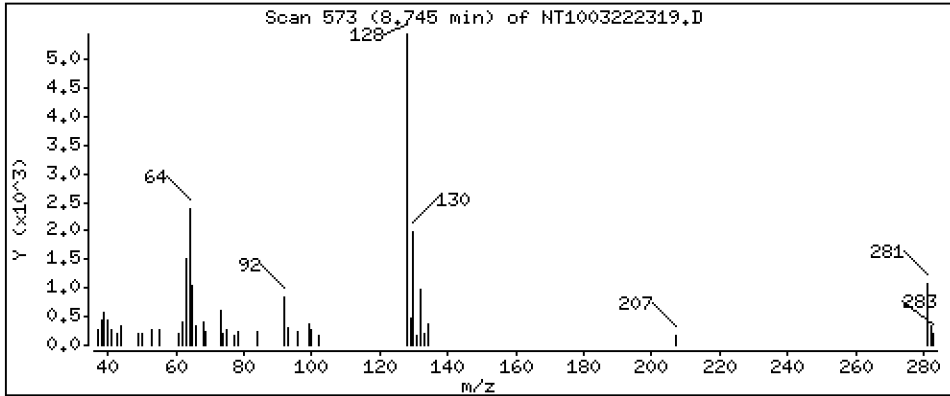
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 0,1931 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

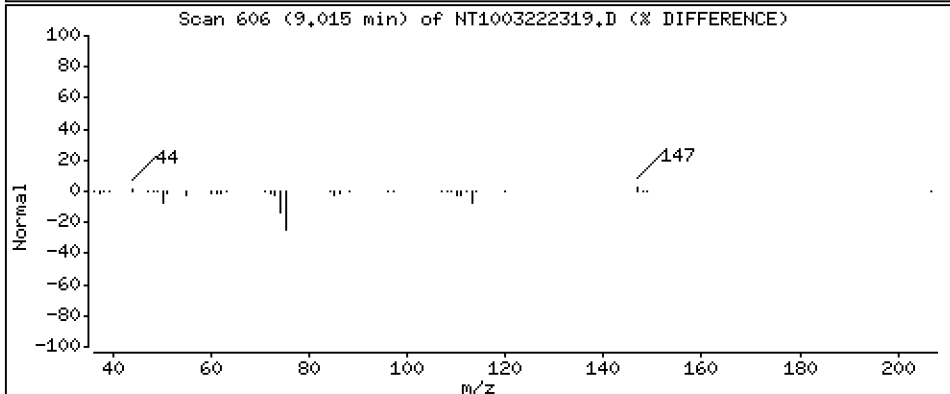
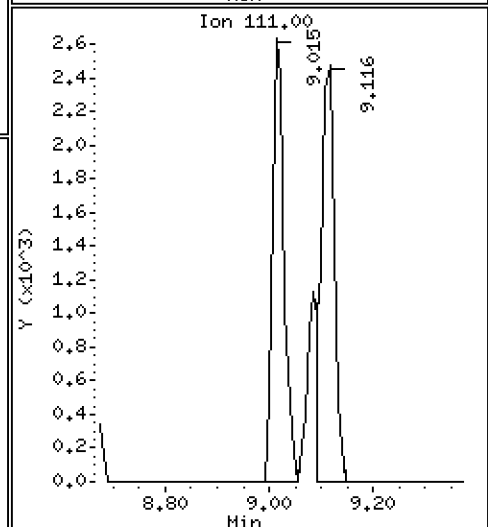
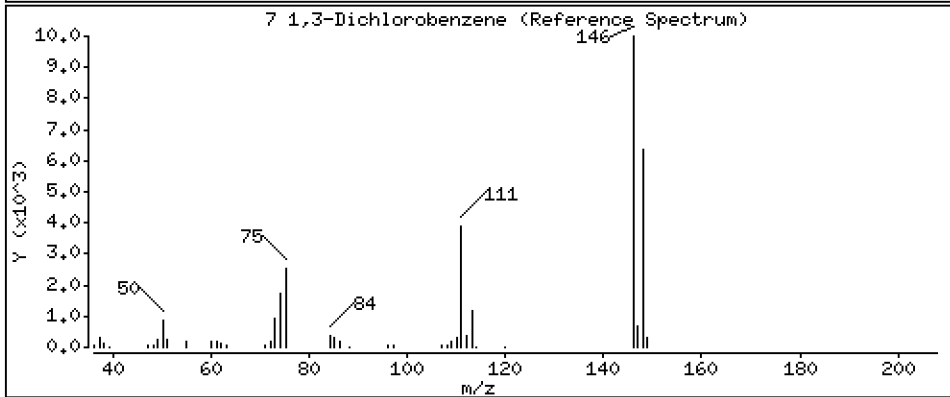
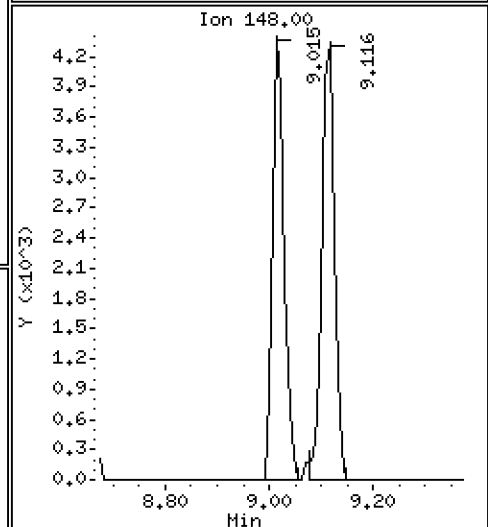
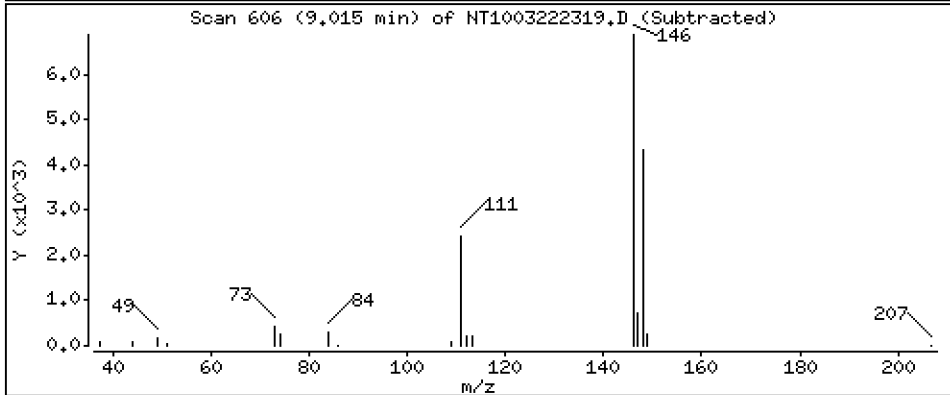
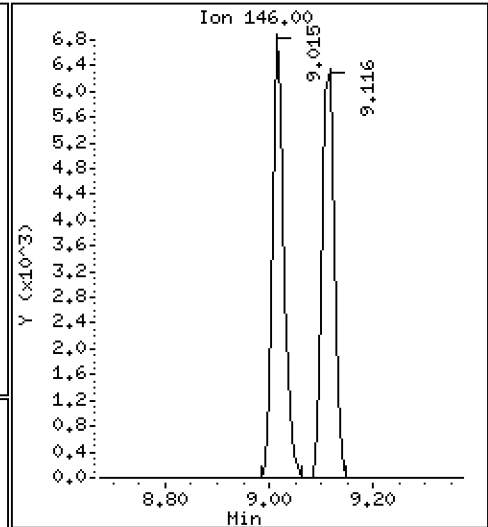
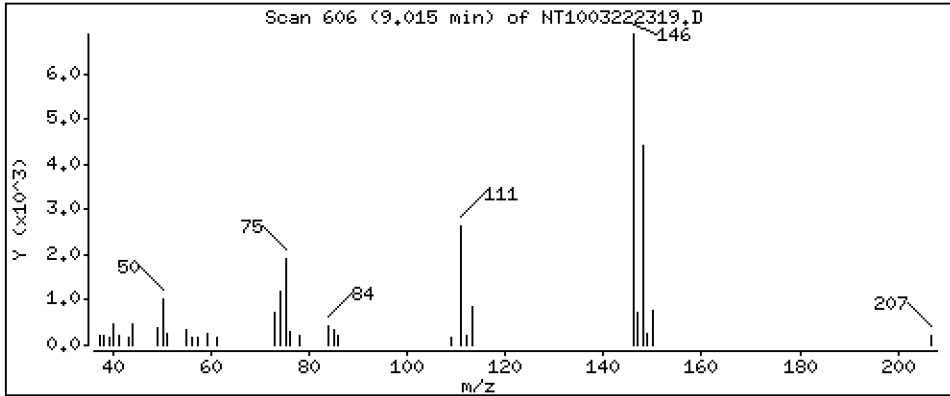
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

7 1,3-Dichlorobenzene

Concentration: 0.2084 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

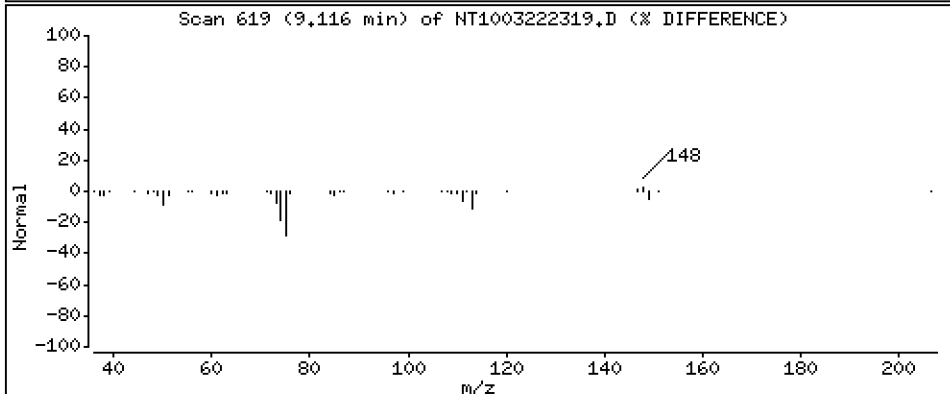
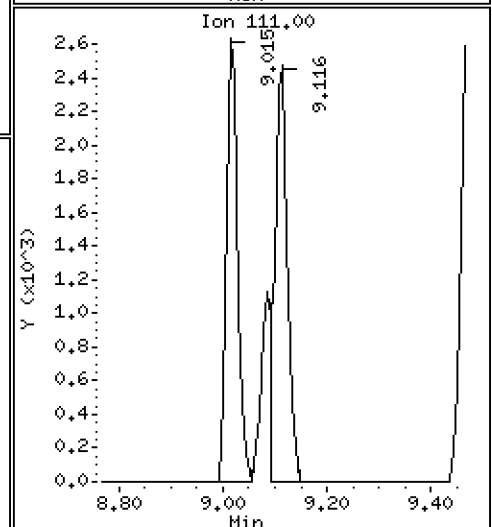
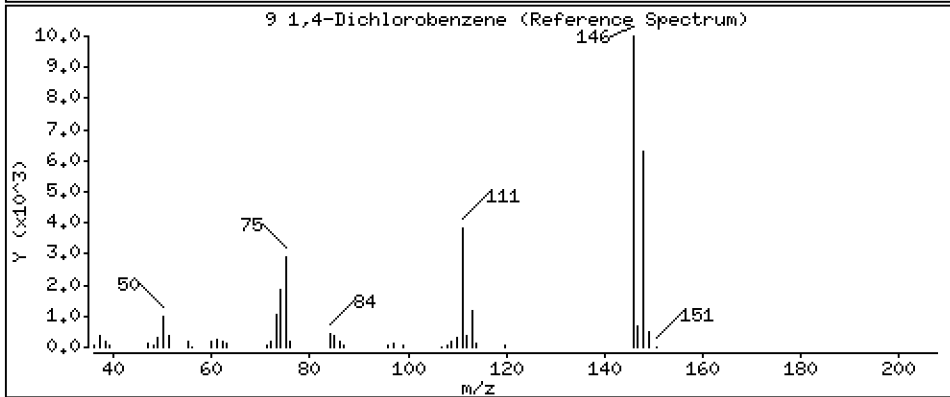
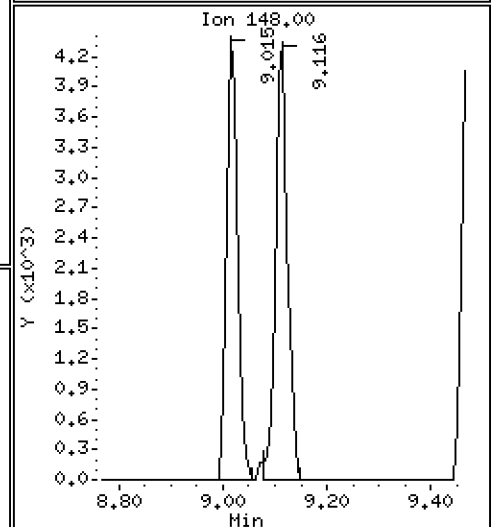
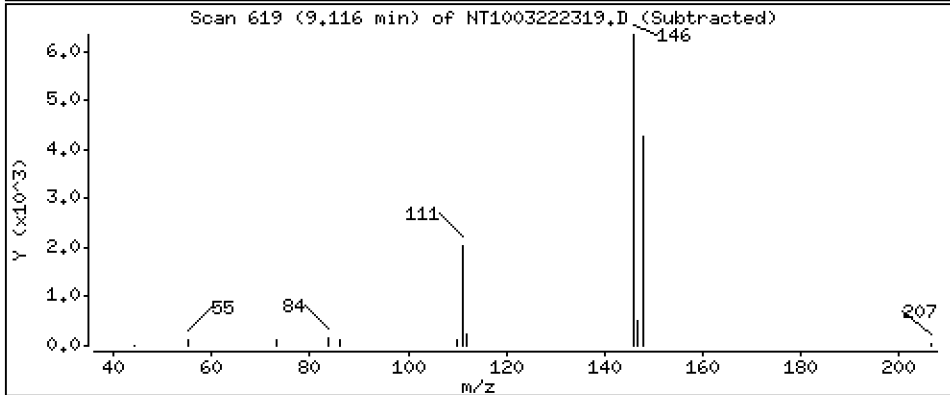
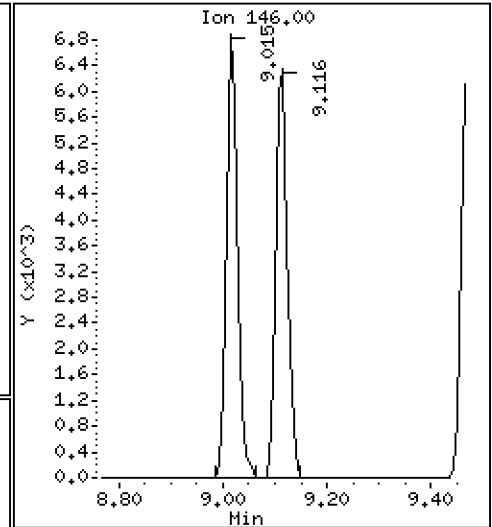
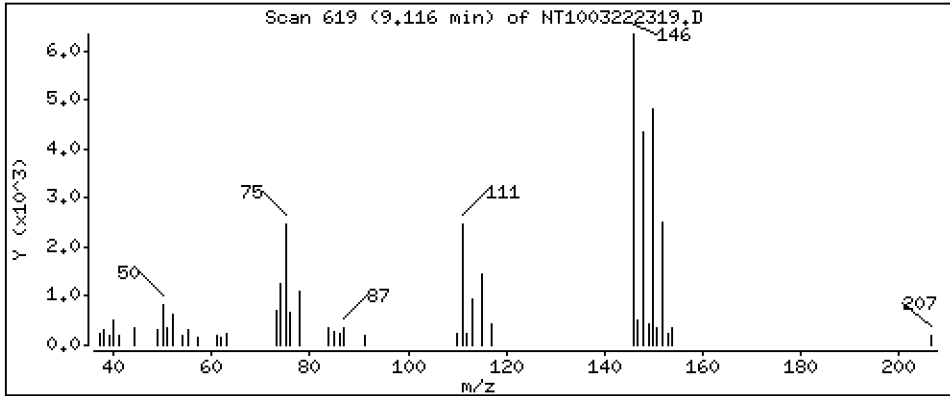
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 0,1999 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

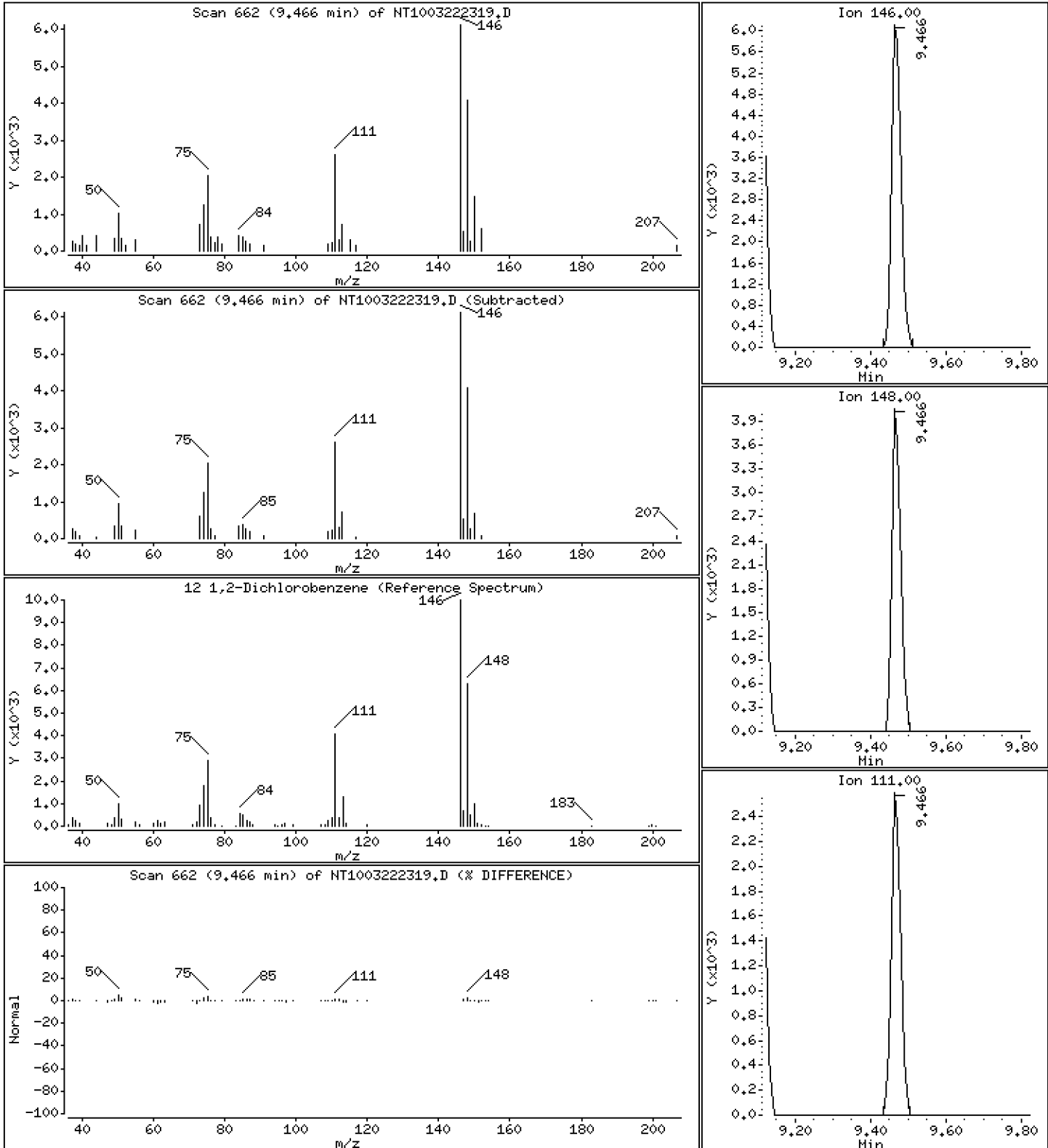
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

12 1,2-Dichlorobenzene

Concentration: 0,2087 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

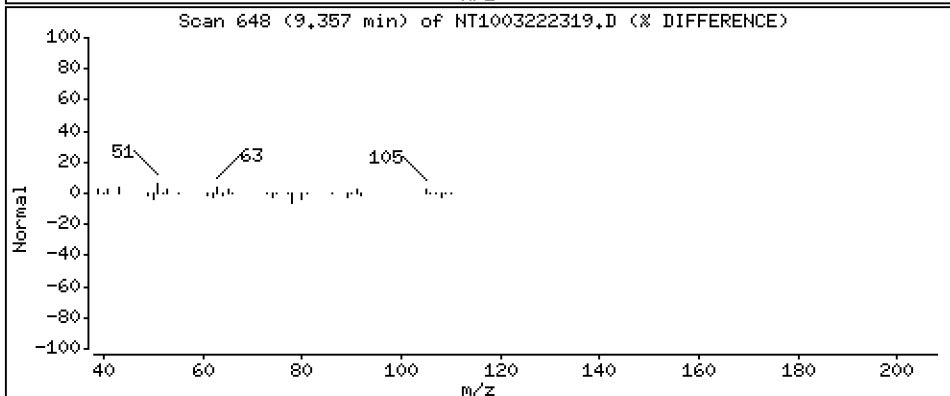
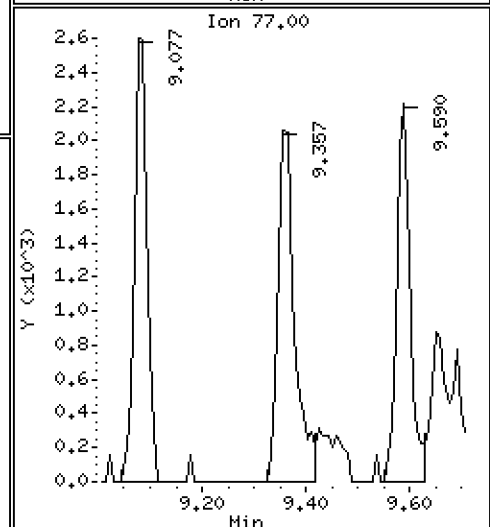
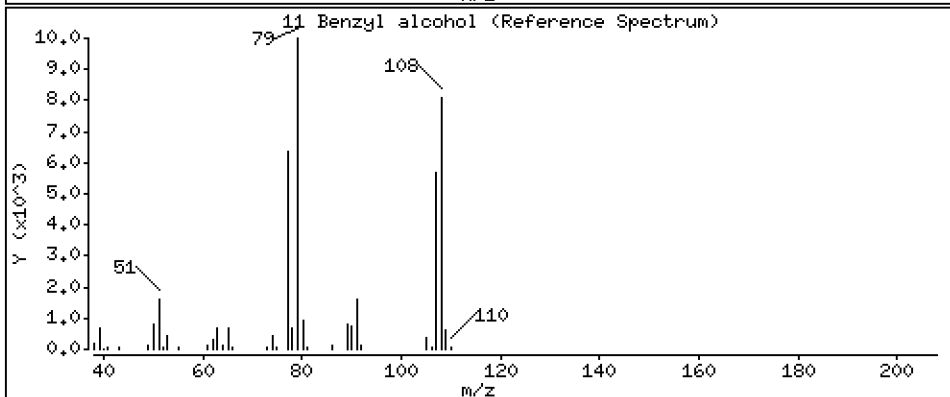
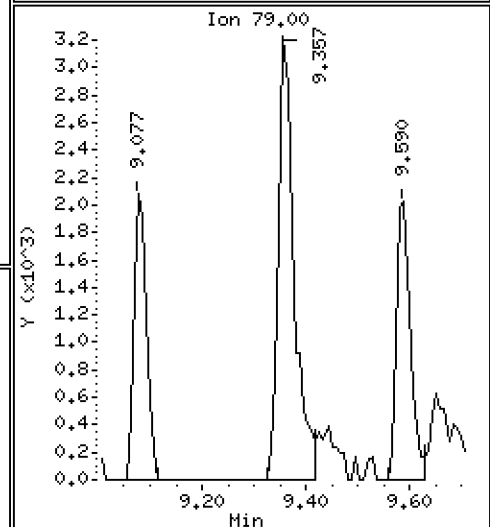
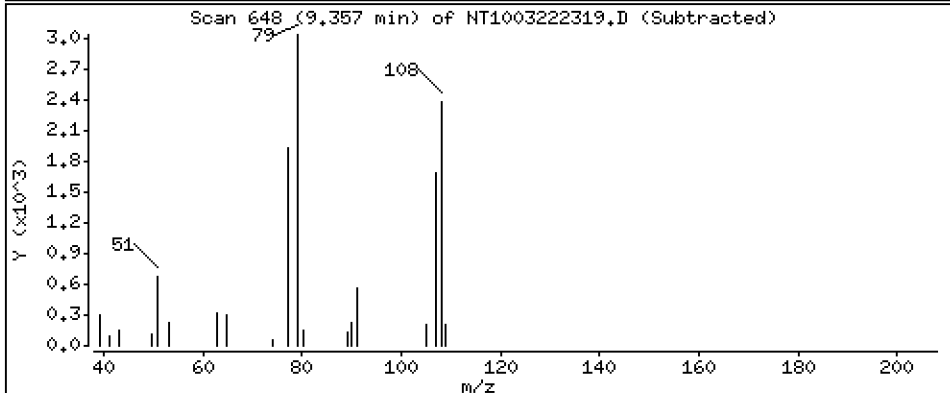
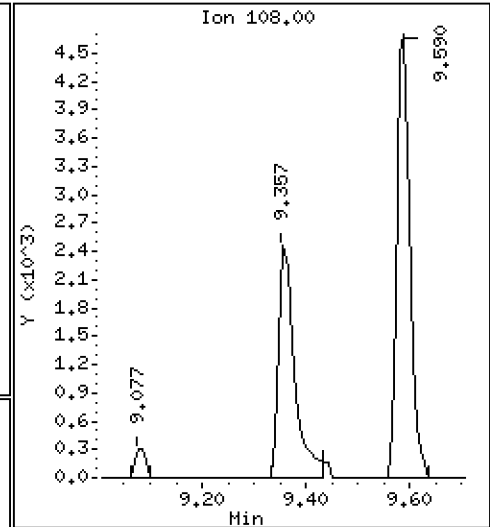
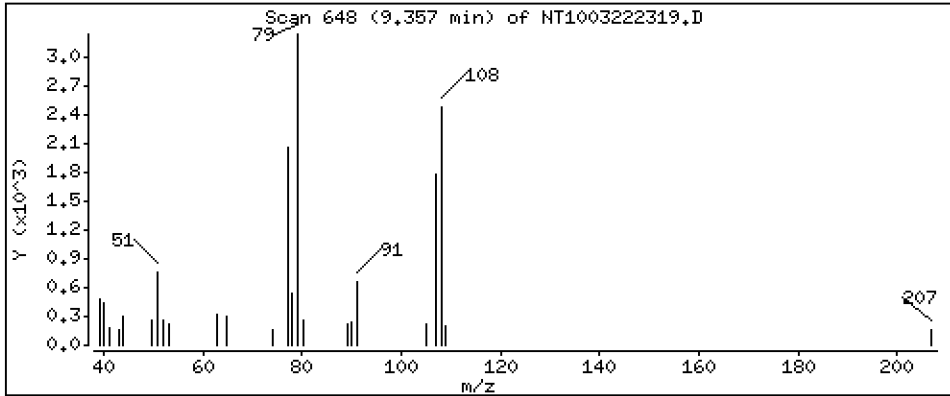
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 0.1930 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

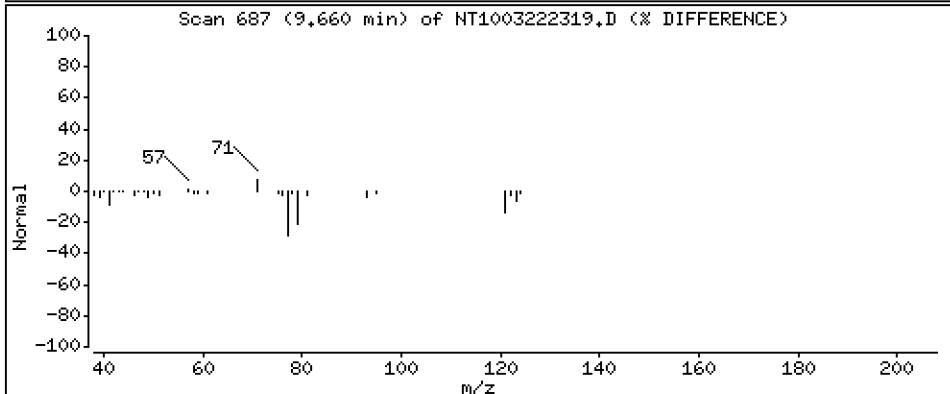
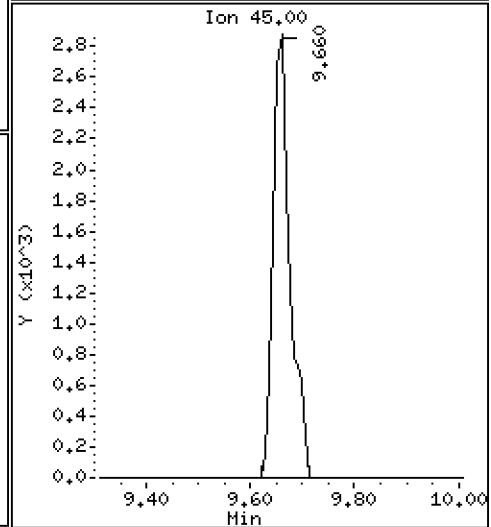
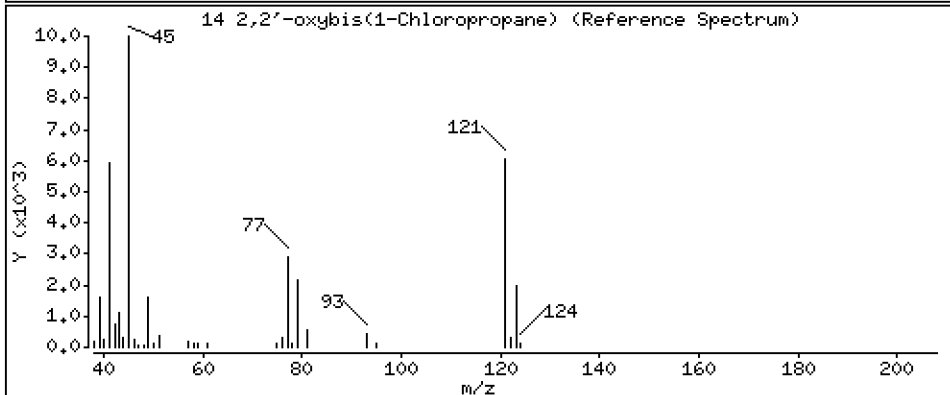
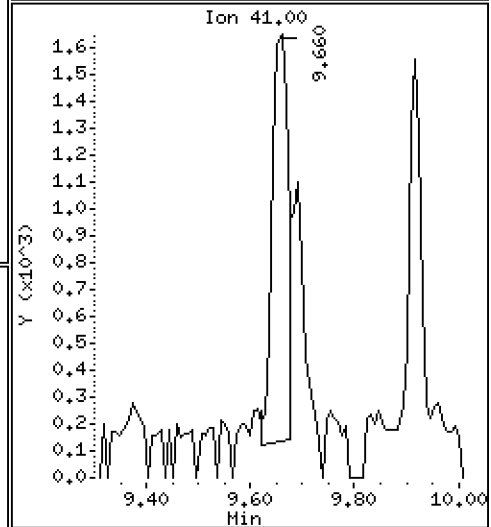
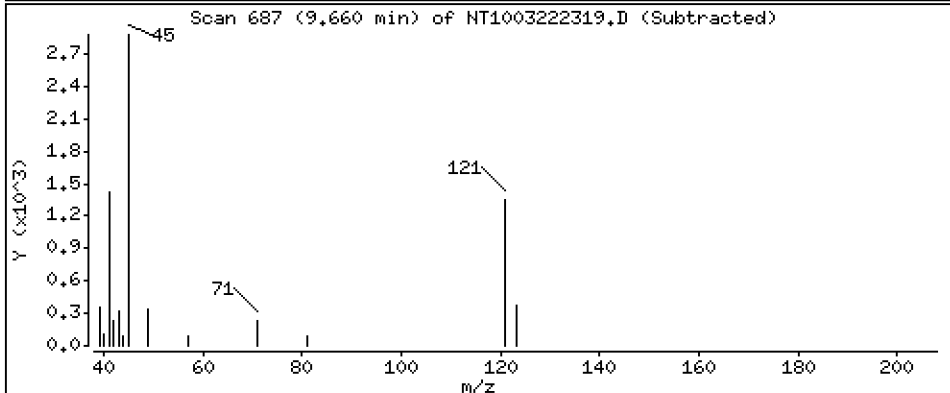
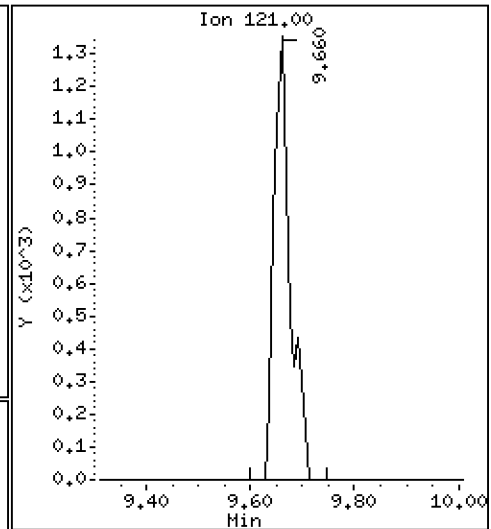
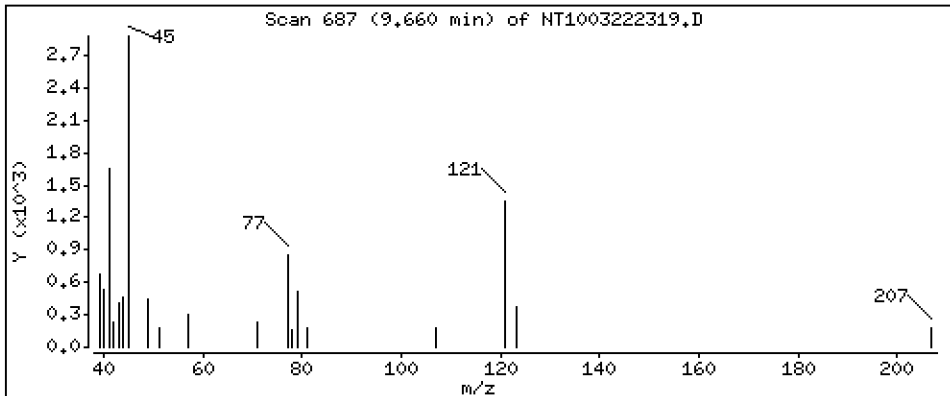
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

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

Concentration: 0.2002 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

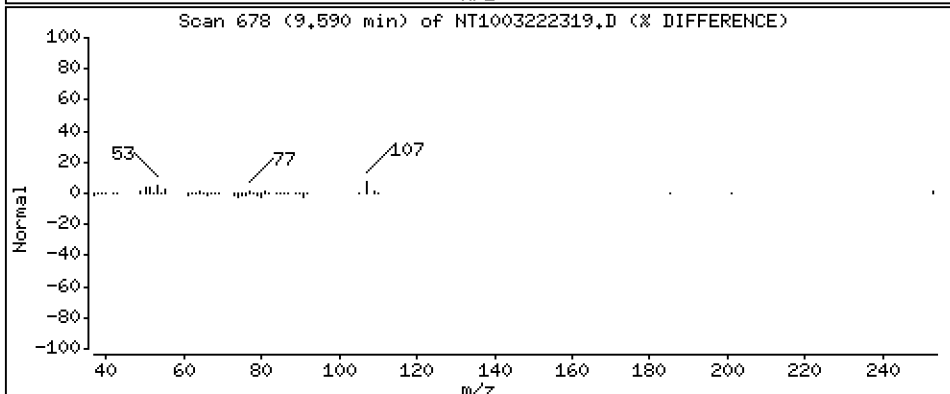
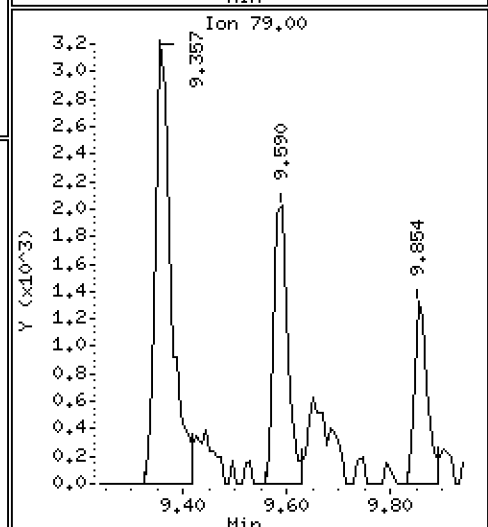
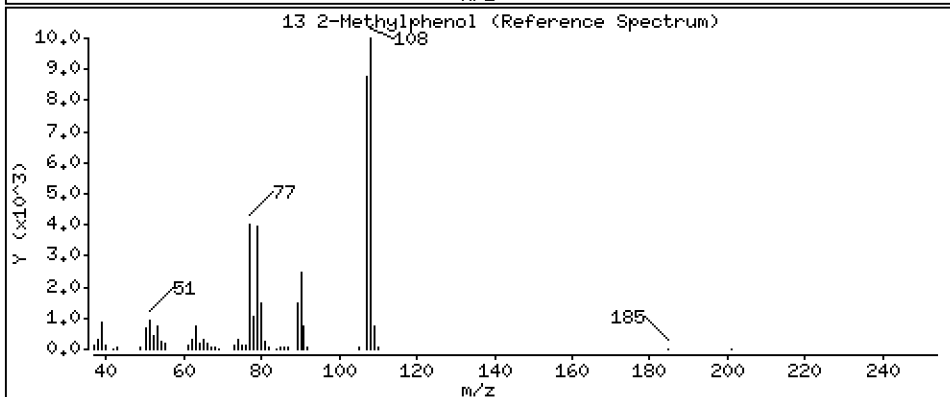
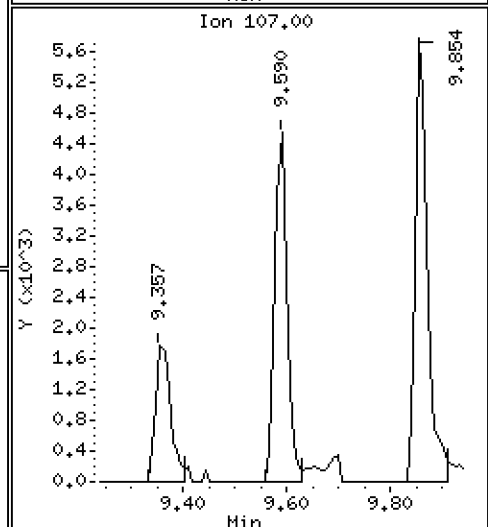
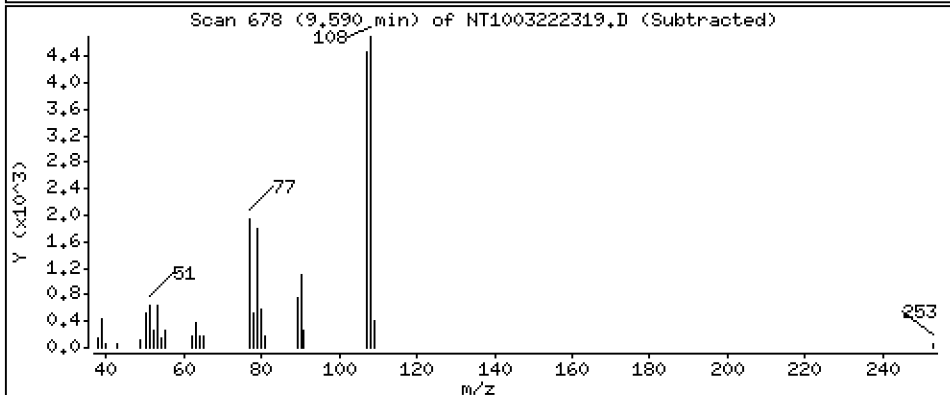
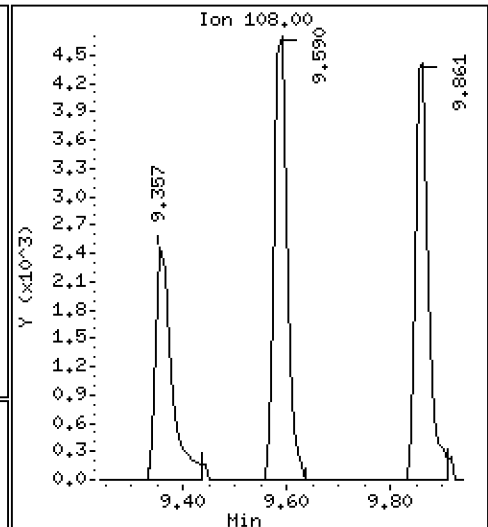
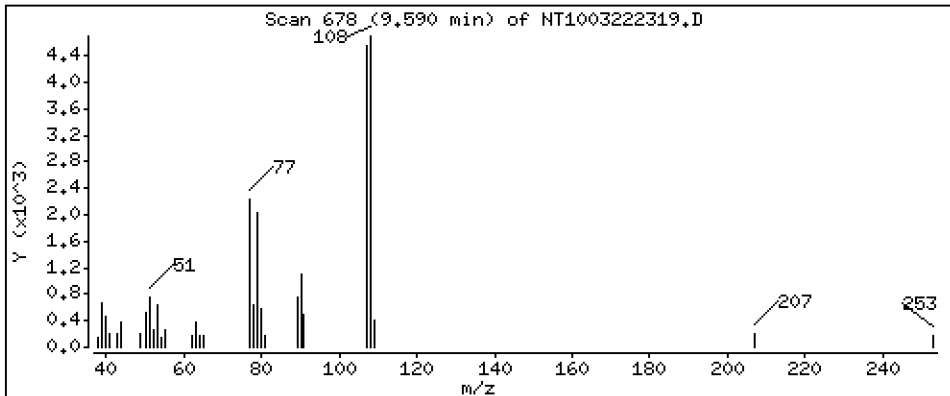
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

13 2-Methylphenol

Concentration: 0,1886 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

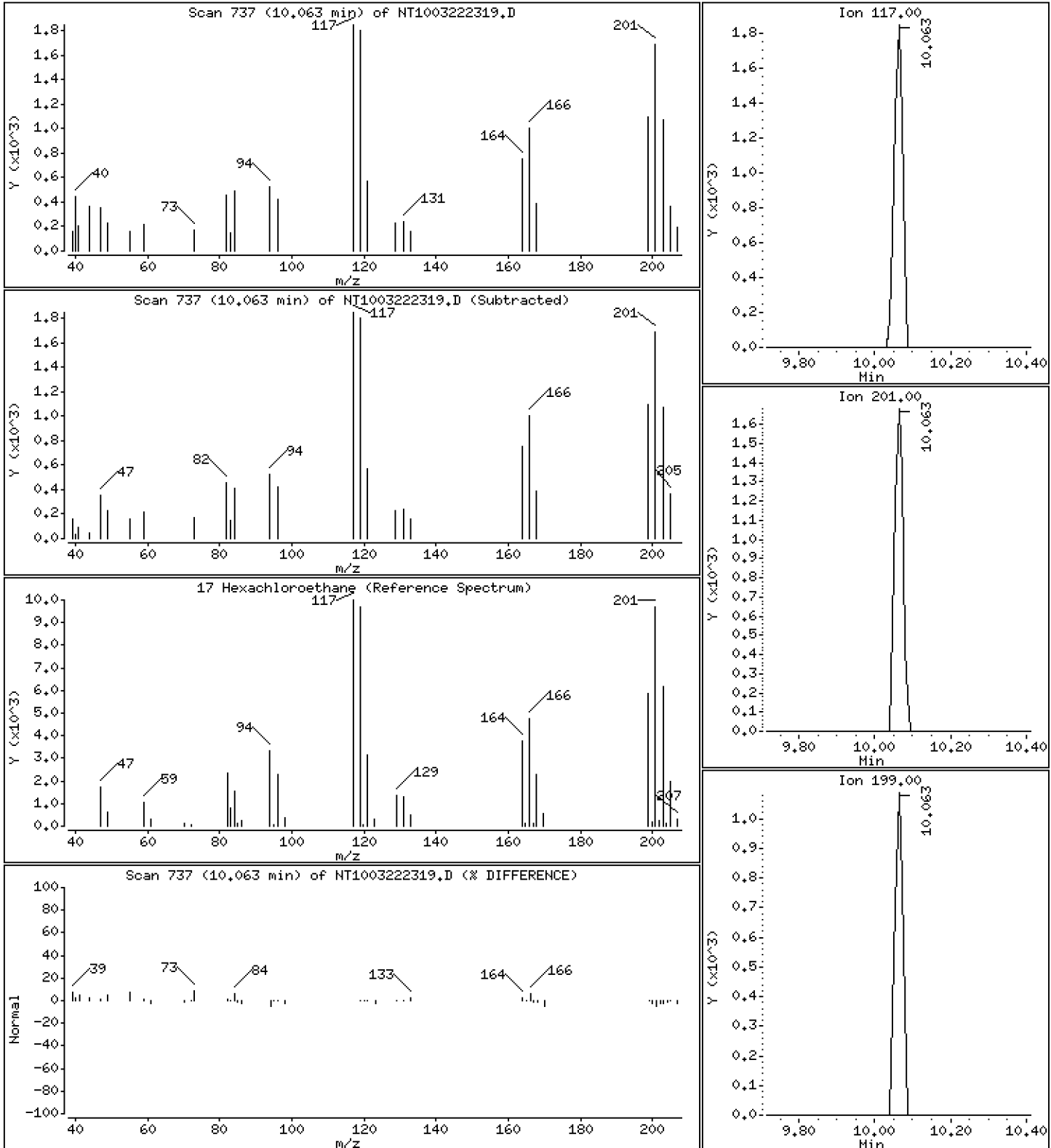
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

17 Hexachloroethane

Concentration: 0.1339 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

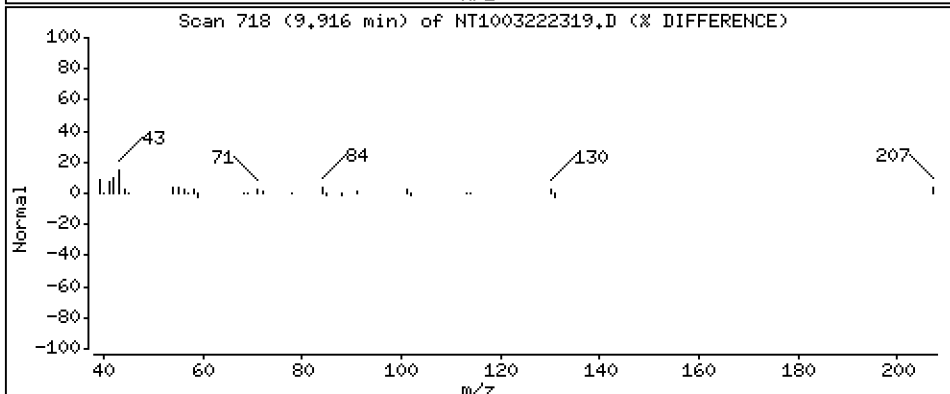
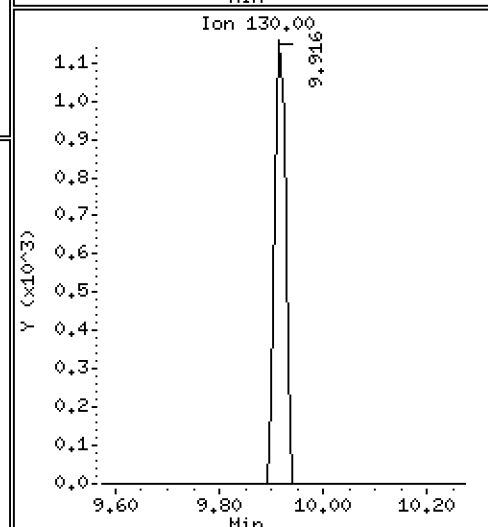
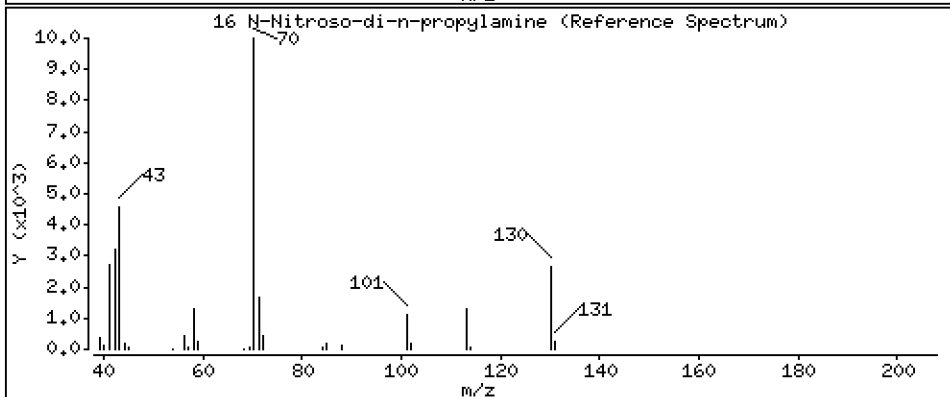
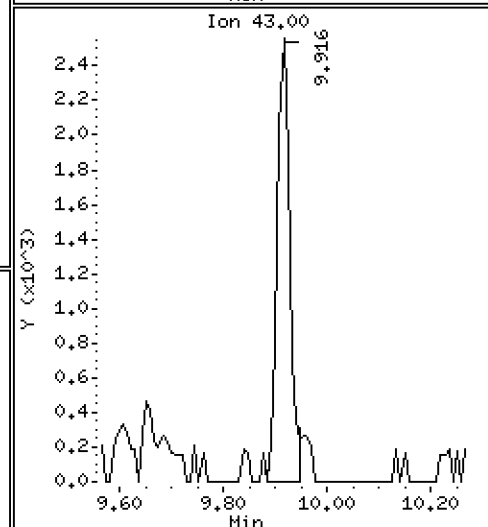
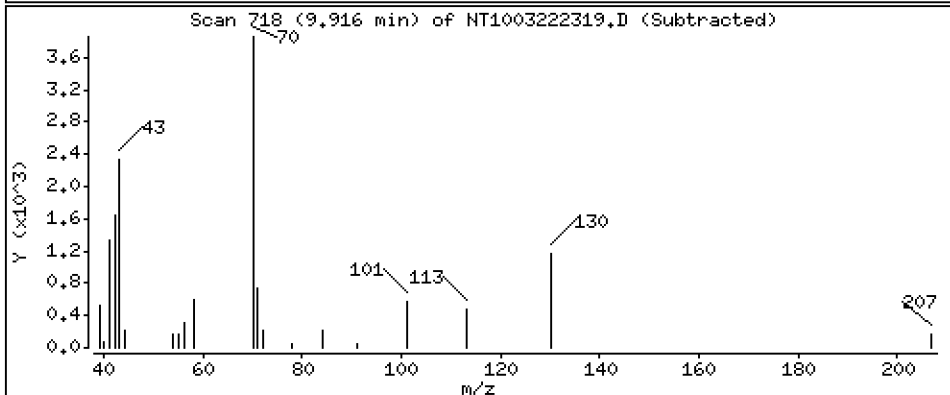
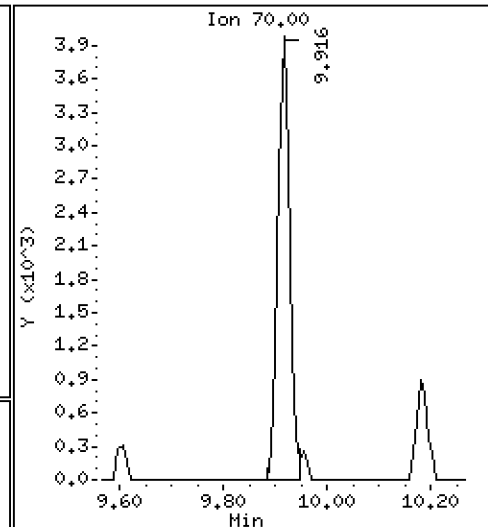
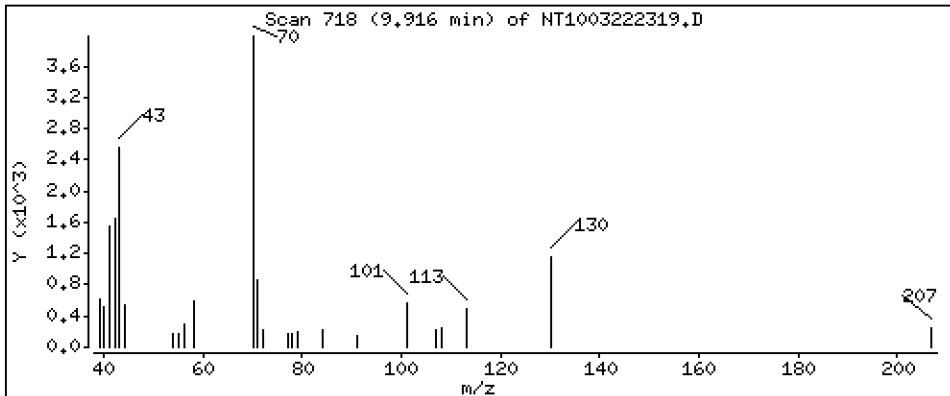
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

16 N-Nitroso-di-n-propylamine

Concentration: 0,1829 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

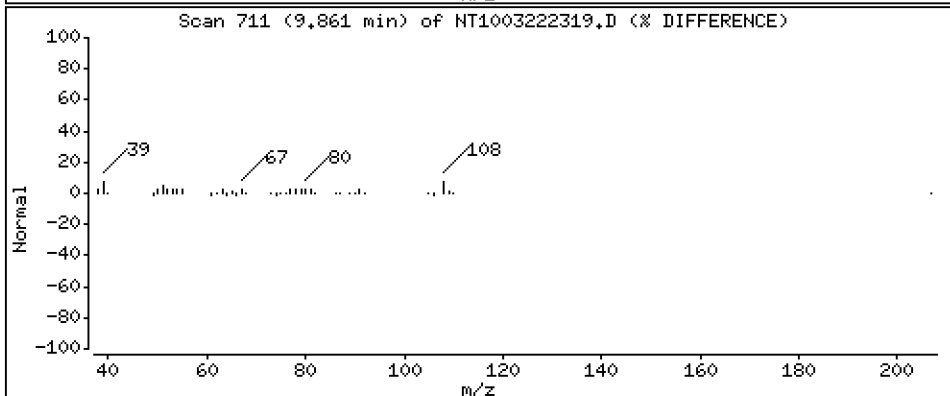
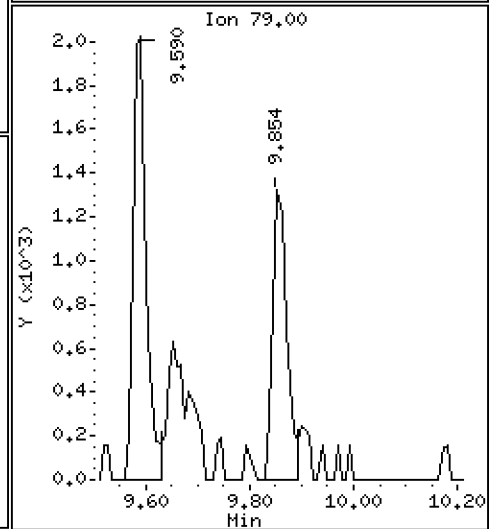
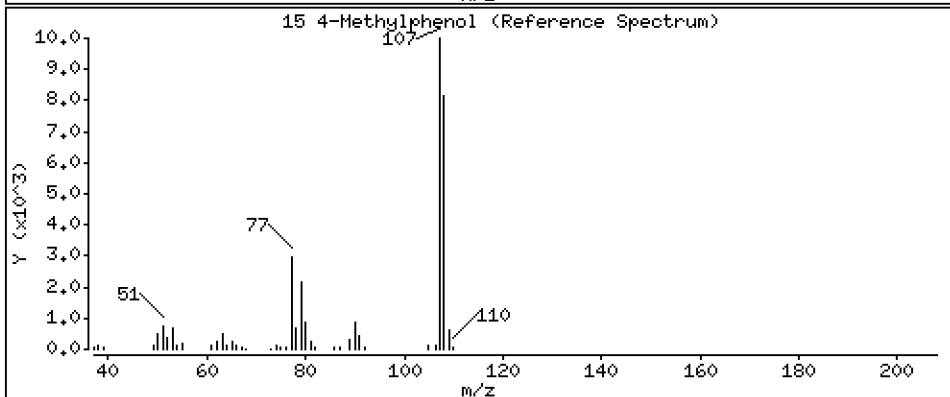
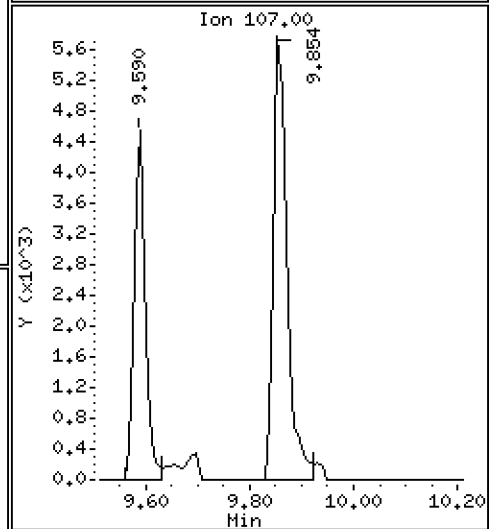
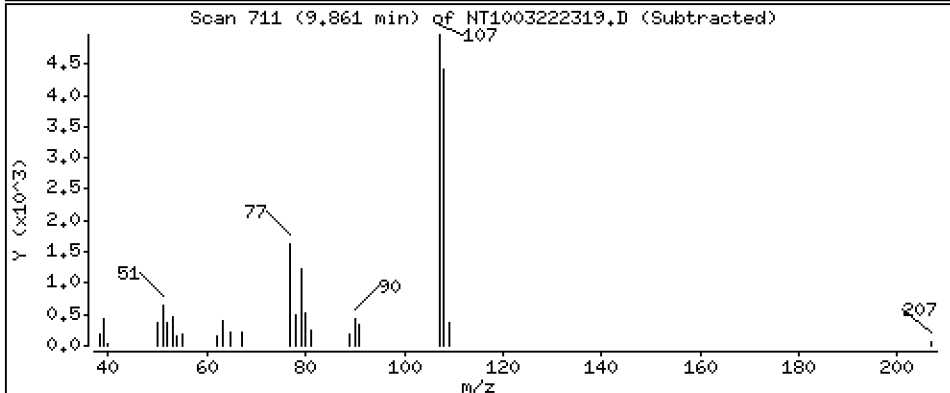
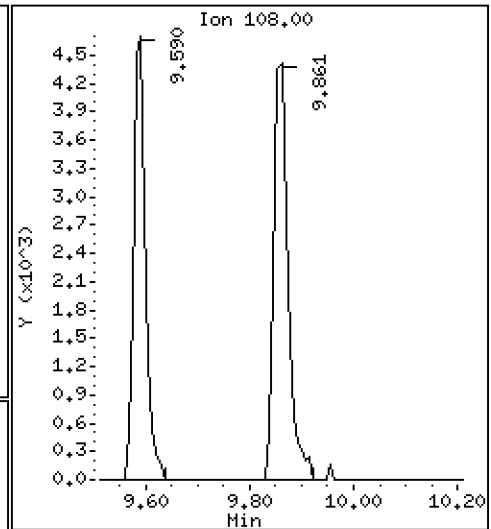
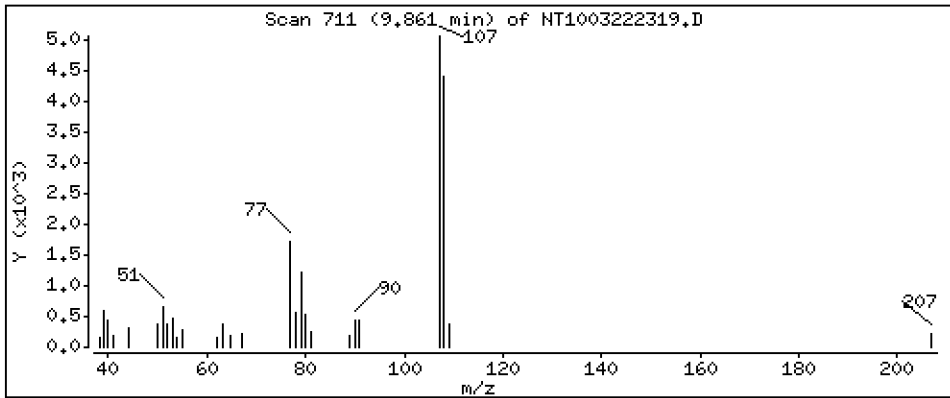
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

15 4-Methylphenol

Concentration: 0,1877 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

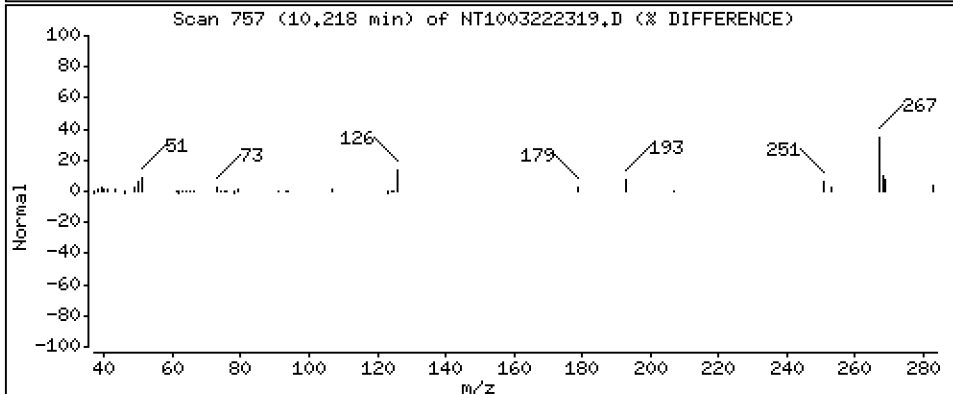
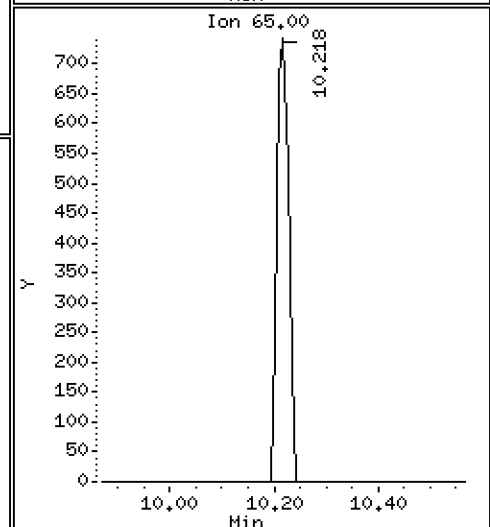
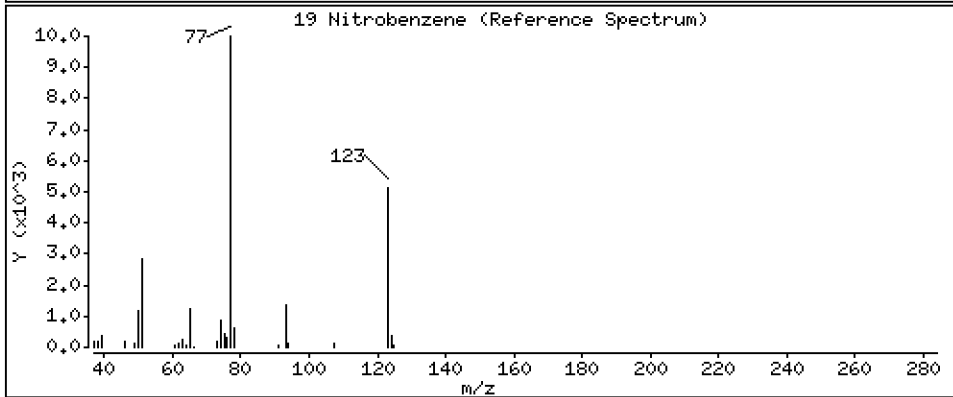
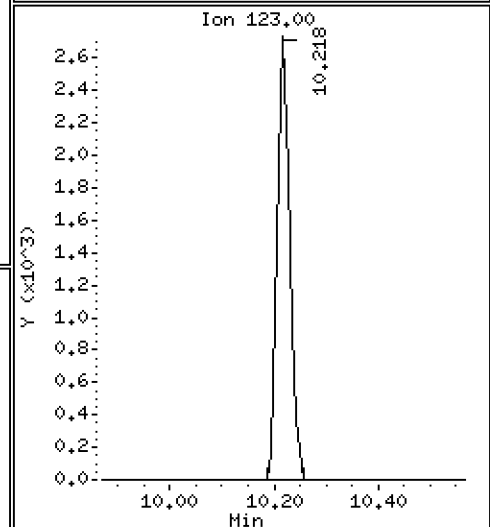
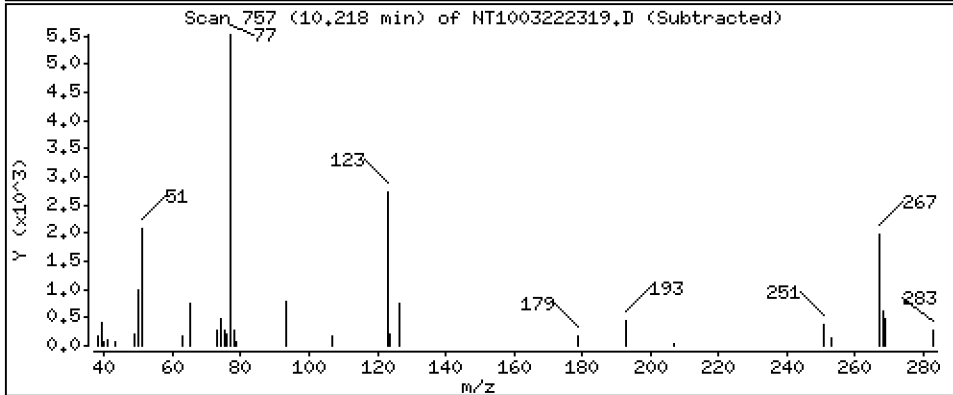
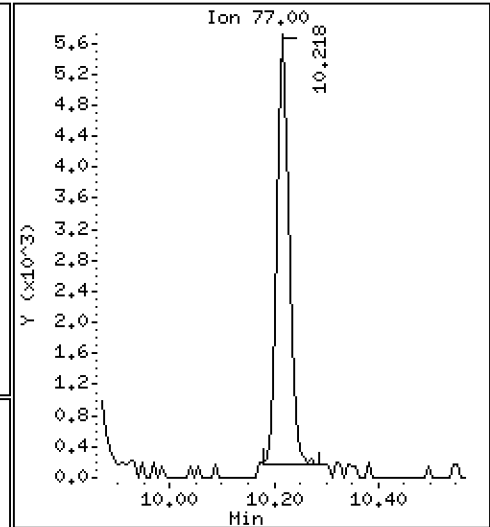
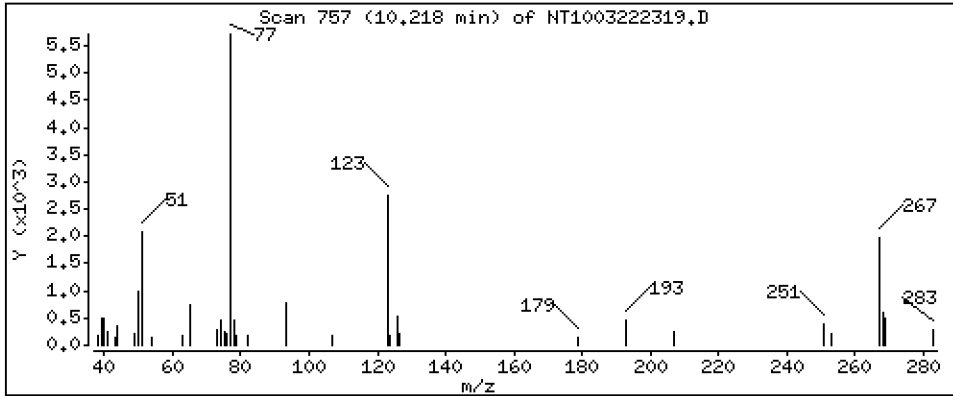
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

19 Nitrobenzene

Concentration: 0,1801 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

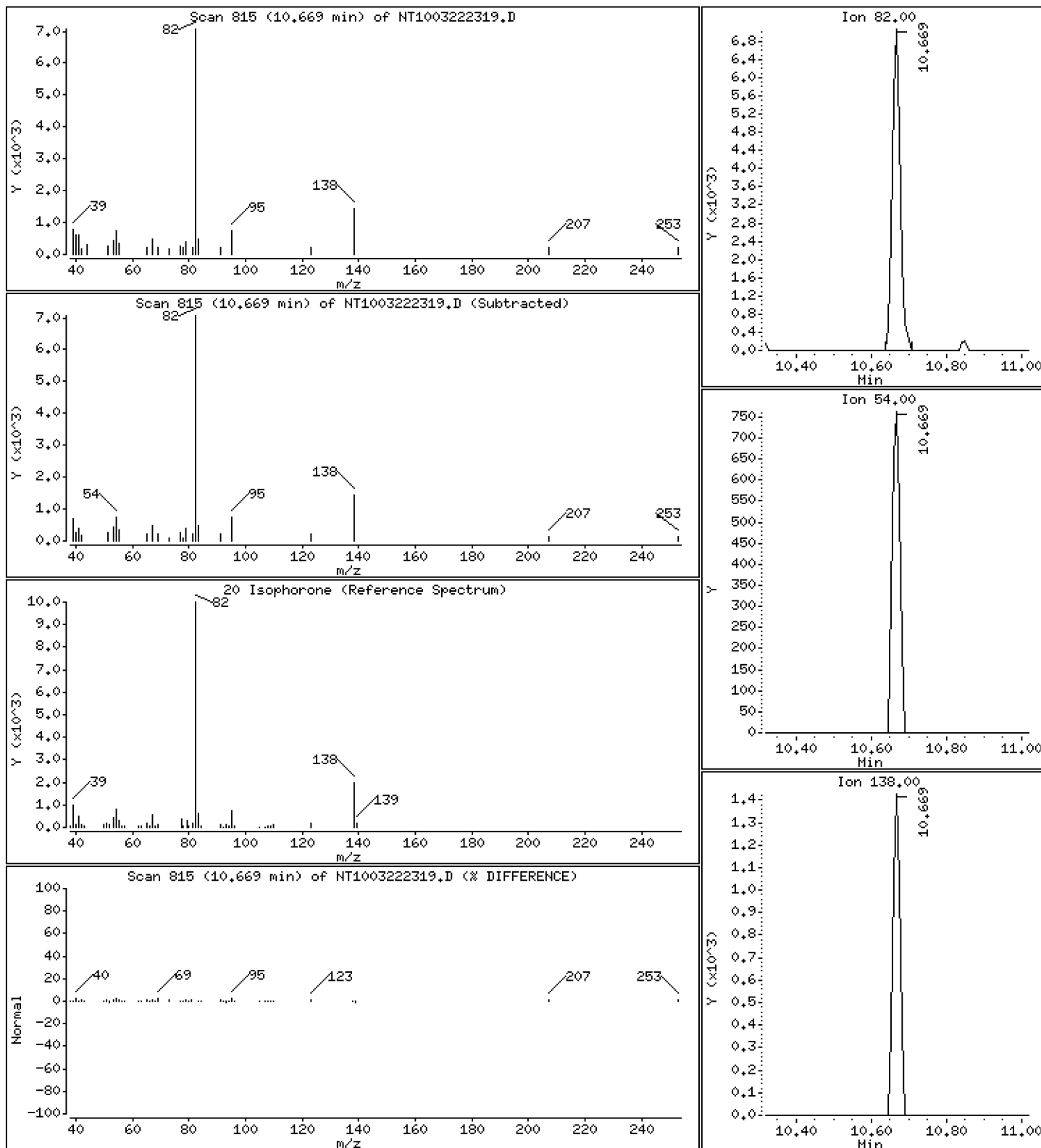
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

20 Isophorone

Concentration: 0.1780 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

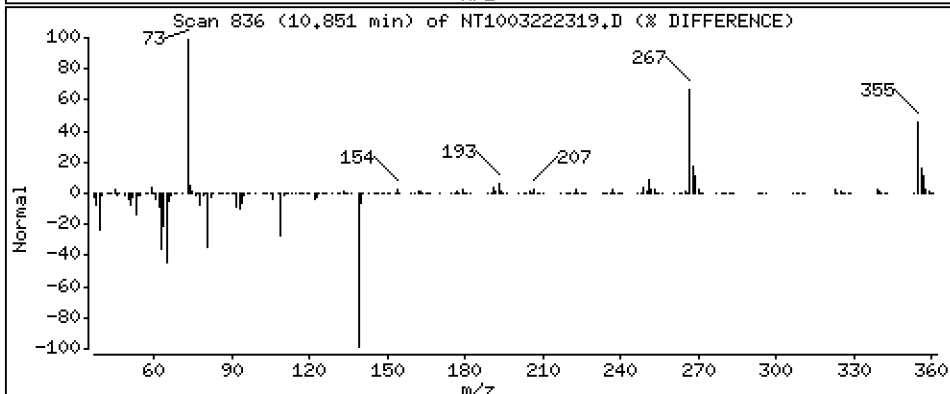
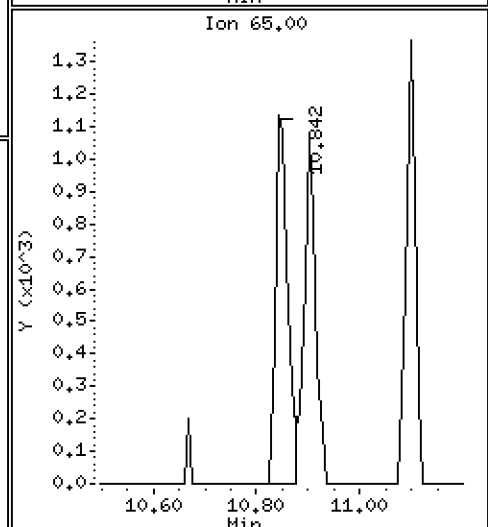
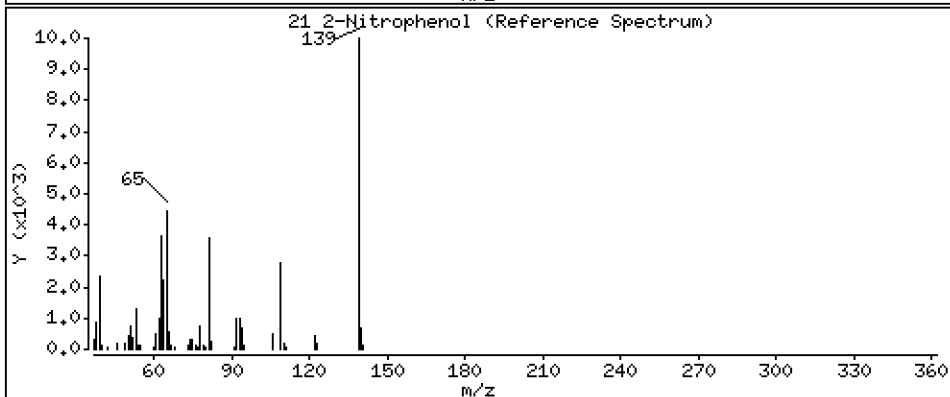
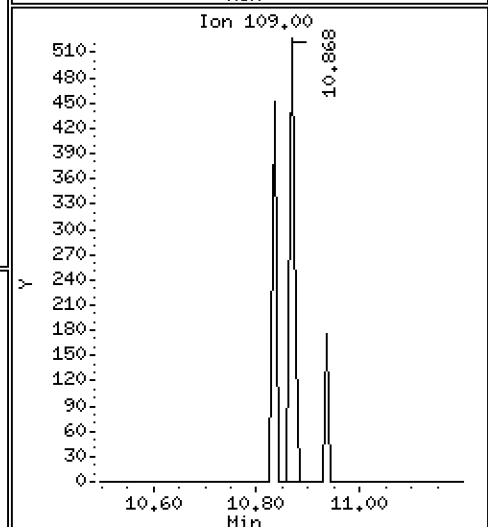
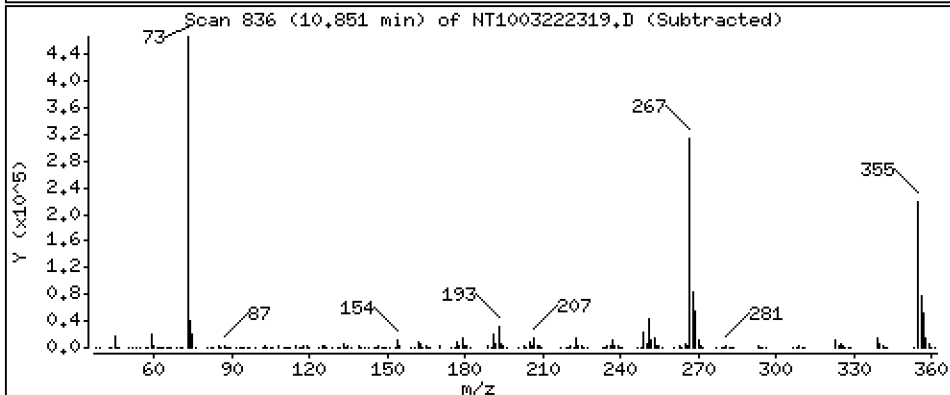
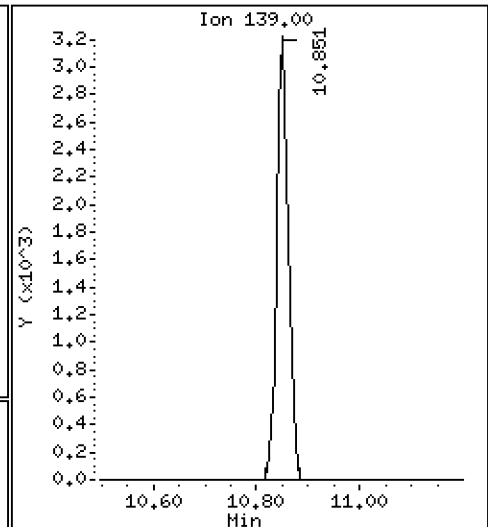
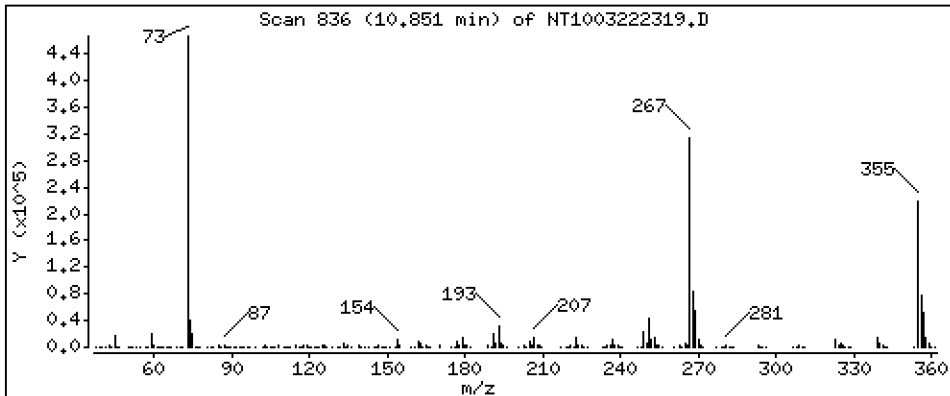
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

21 2-Nitrophenol

Concentration: 0,2258 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

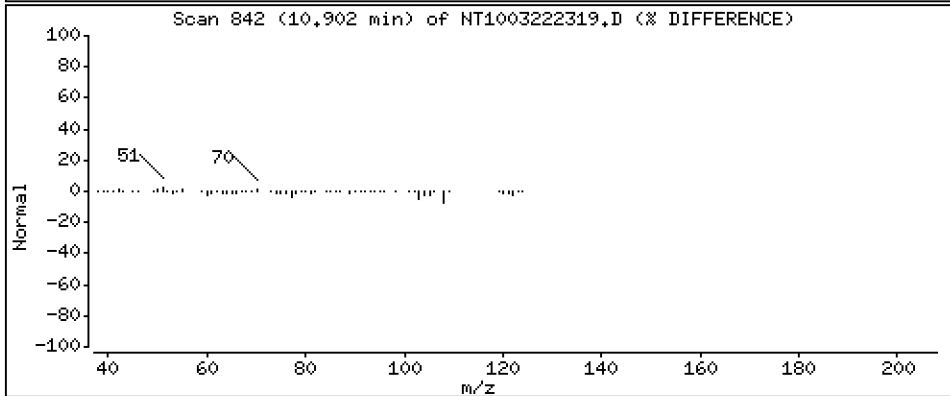
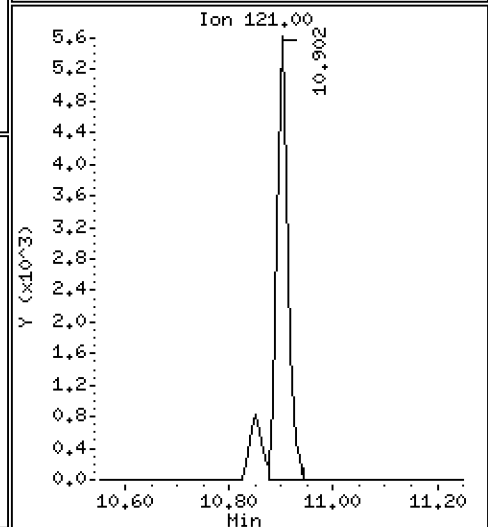
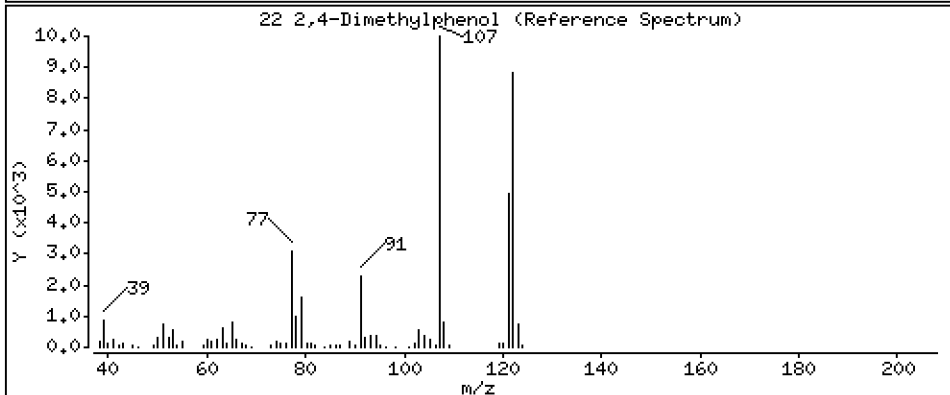
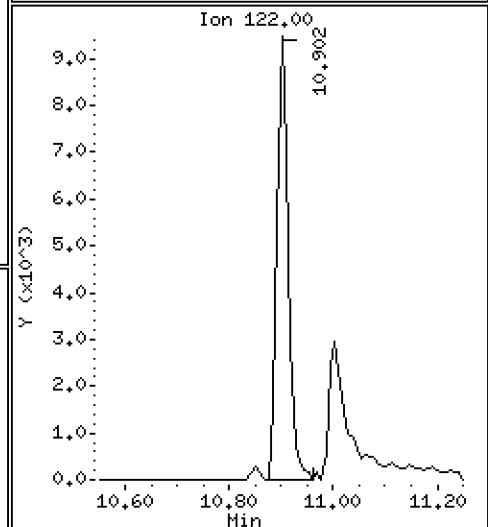
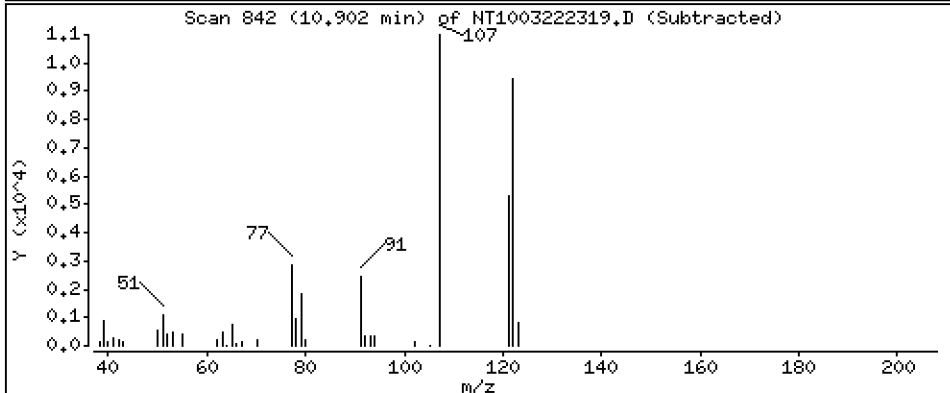
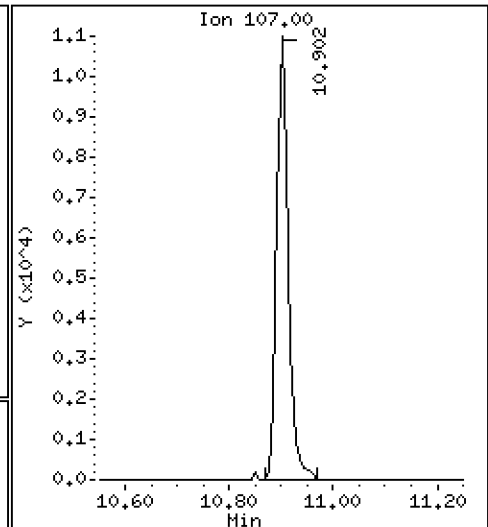
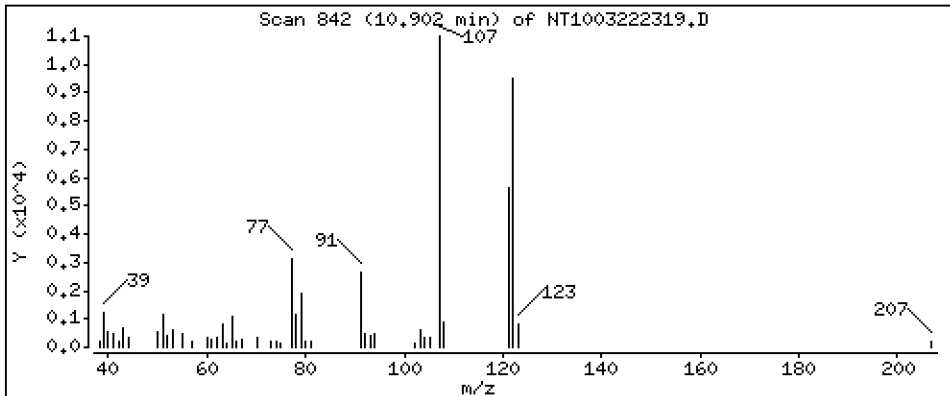
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 0,3865 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

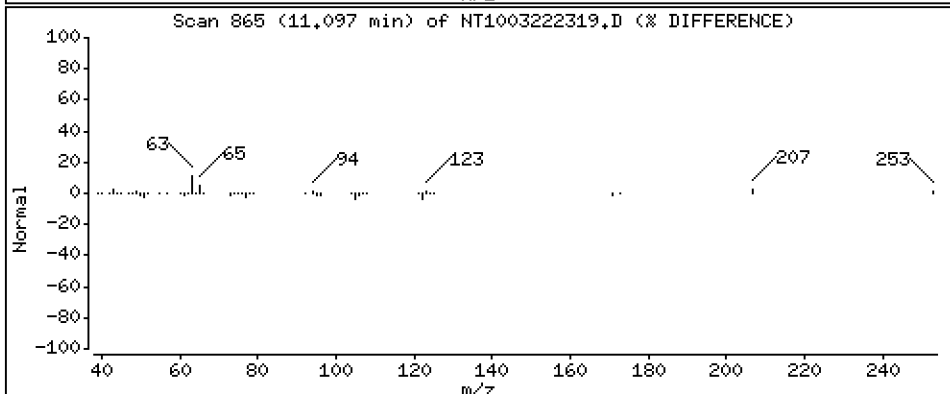
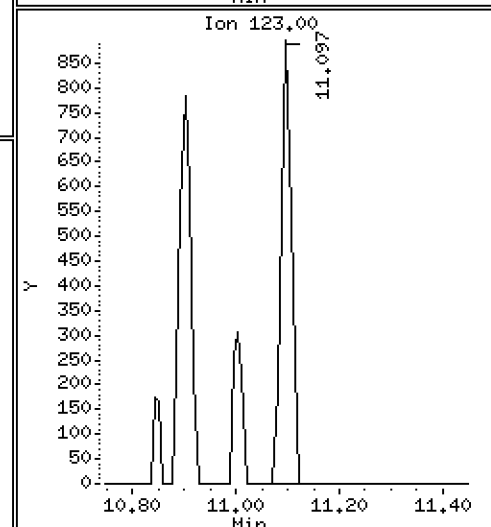
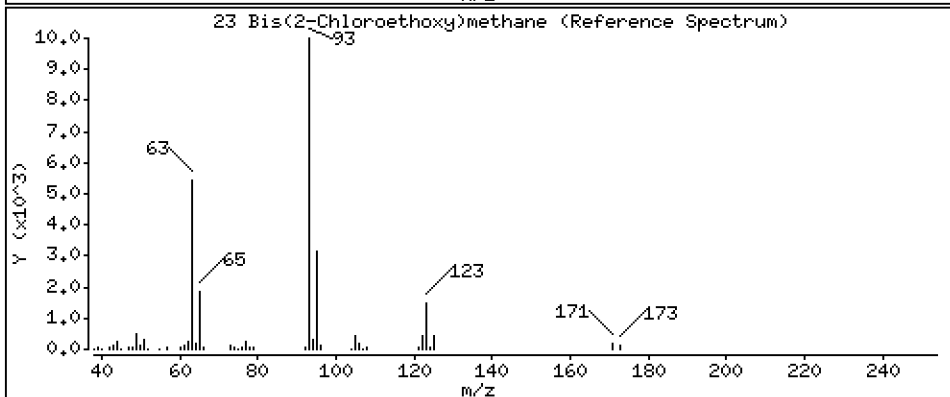
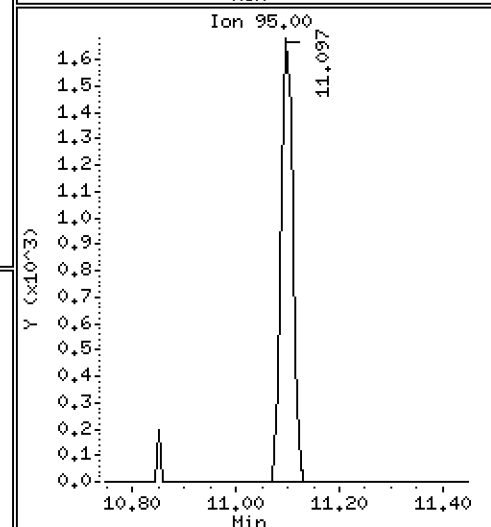
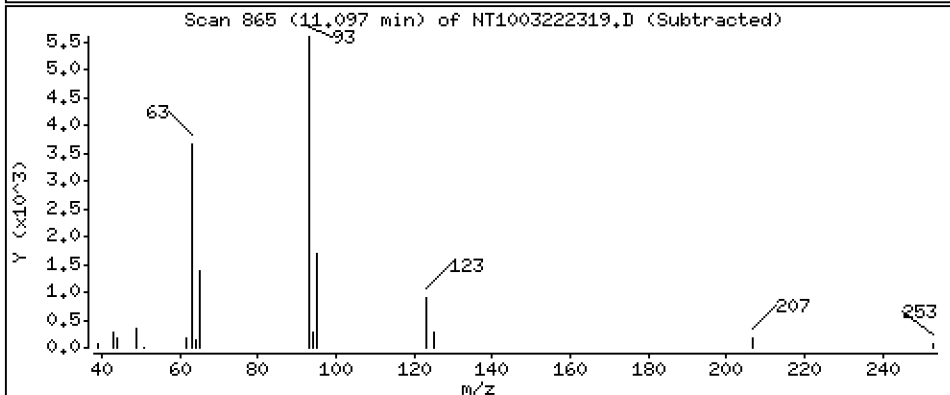
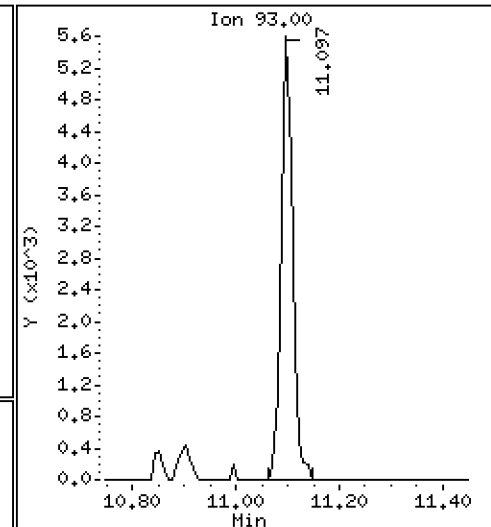
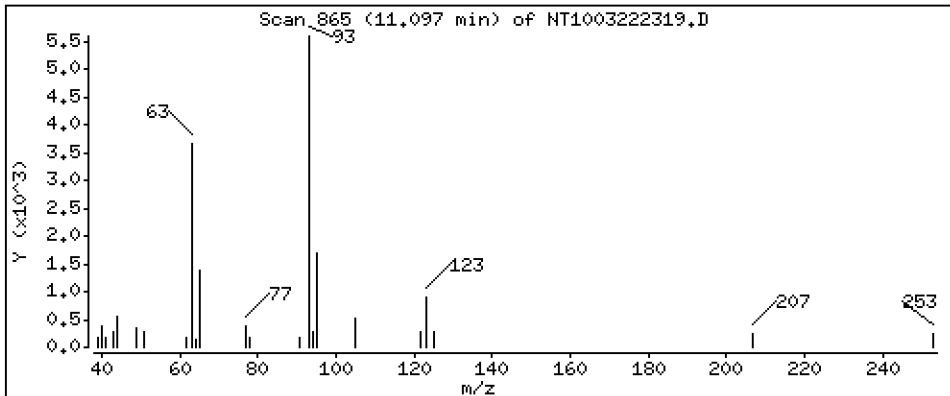
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

23 Bis(2-Chloroethoxy)methane

Concentration: 0,2089 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

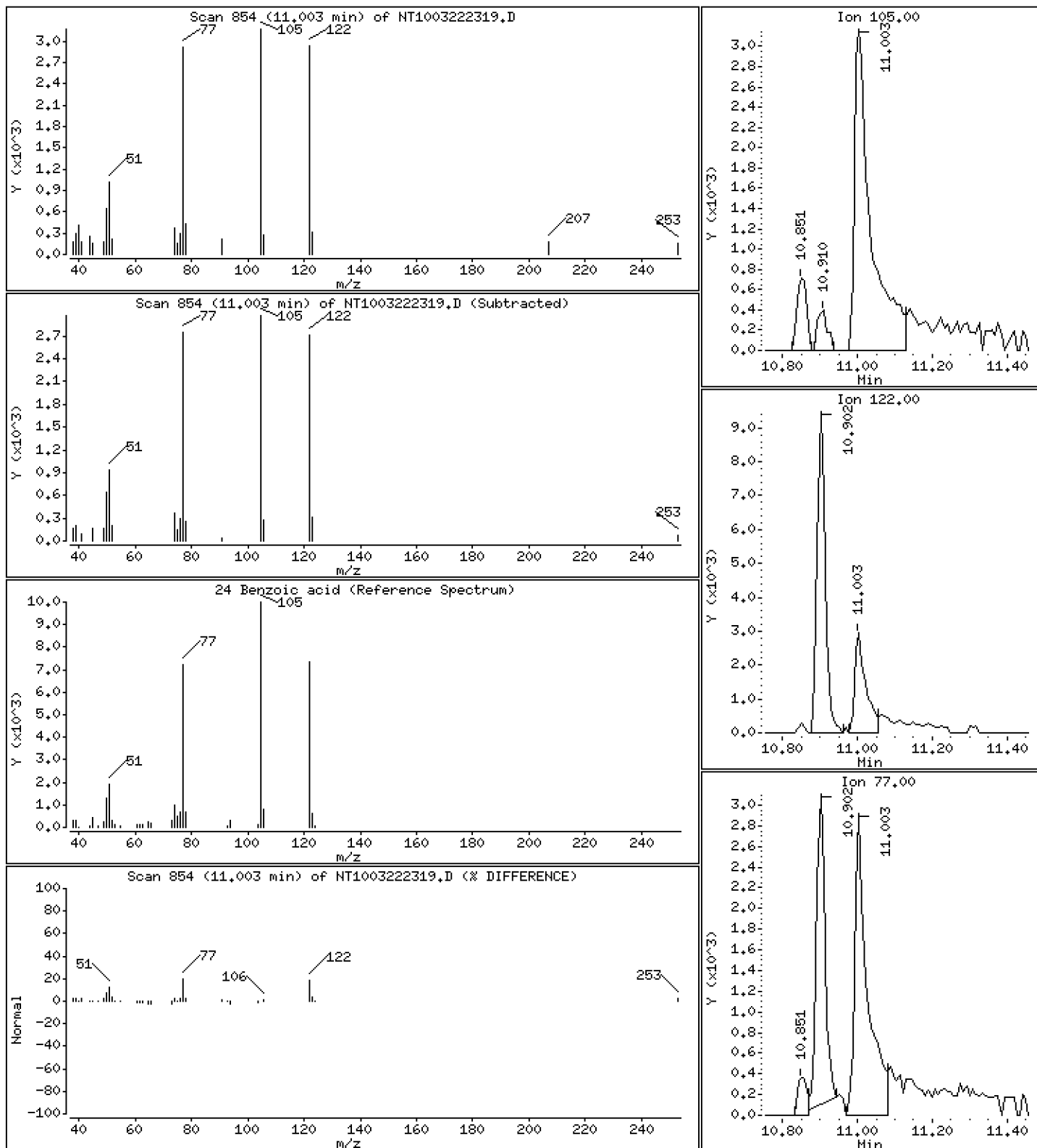
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

24 Benzoic acid

Concentration: 0,4164 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

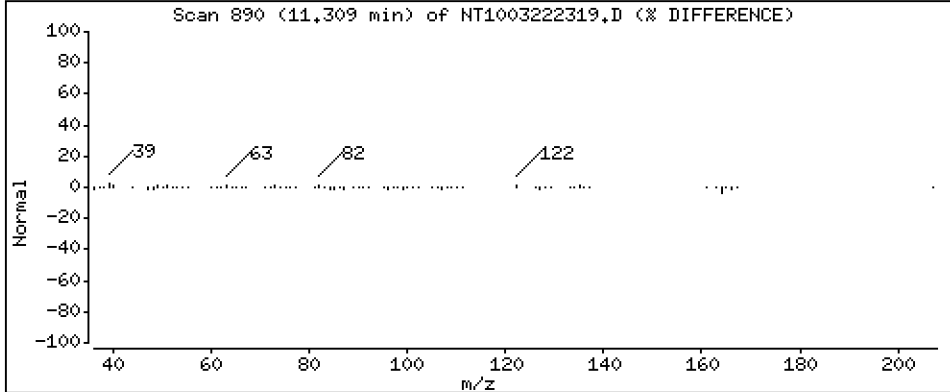
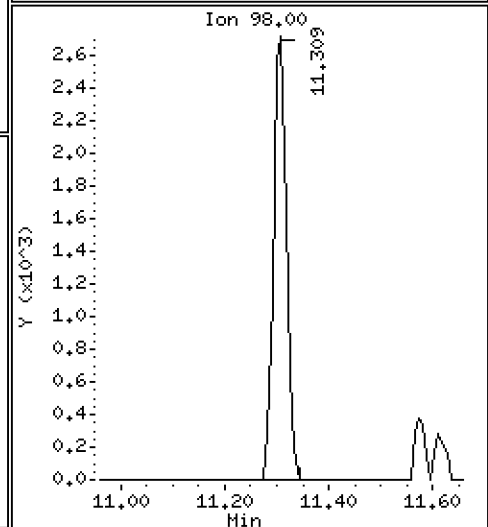
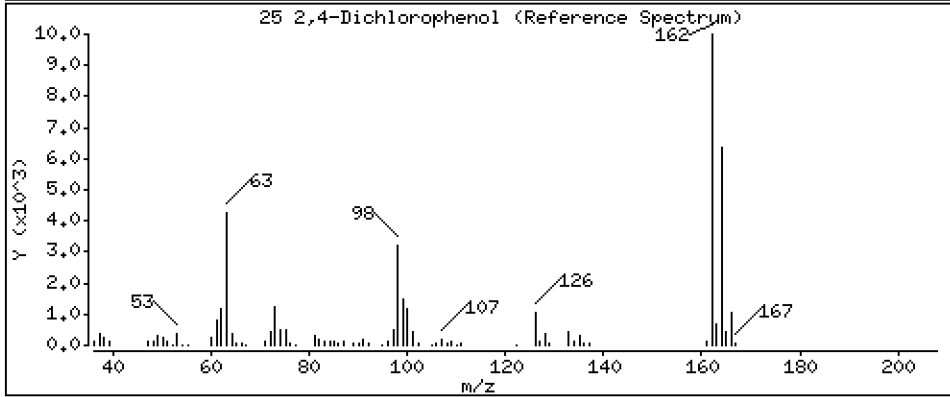
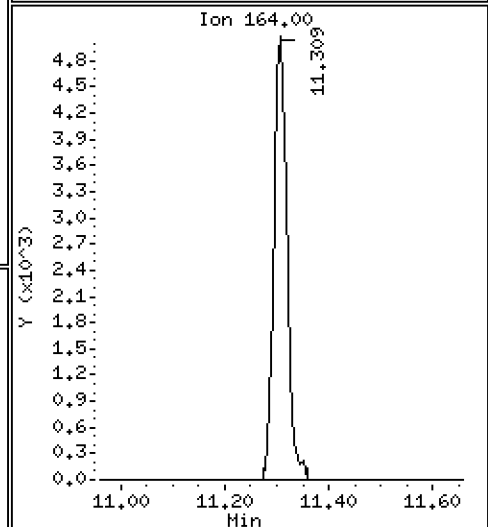
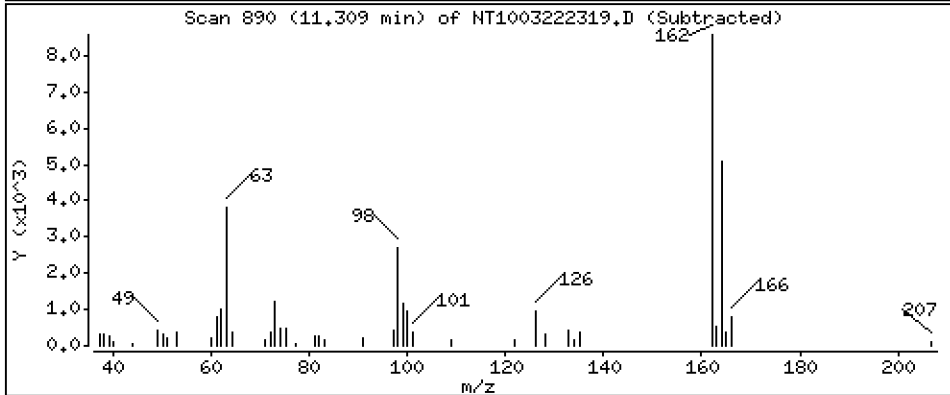
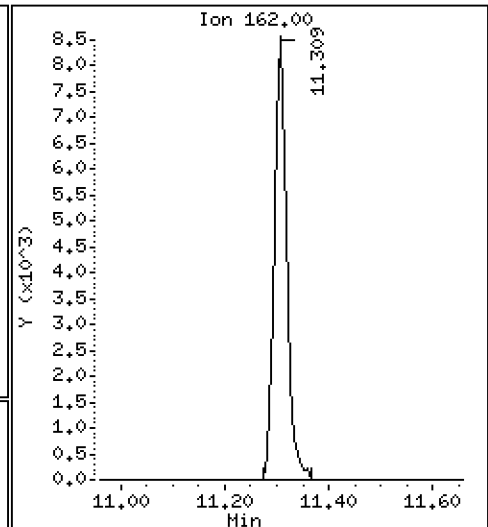
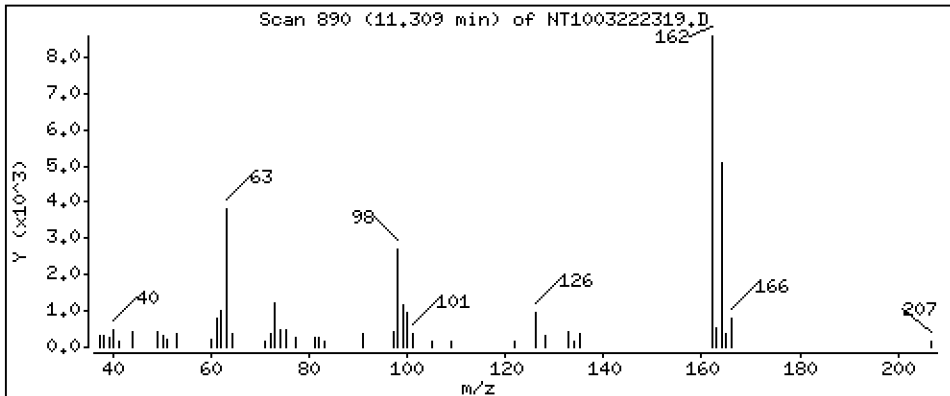
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 0,4020 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

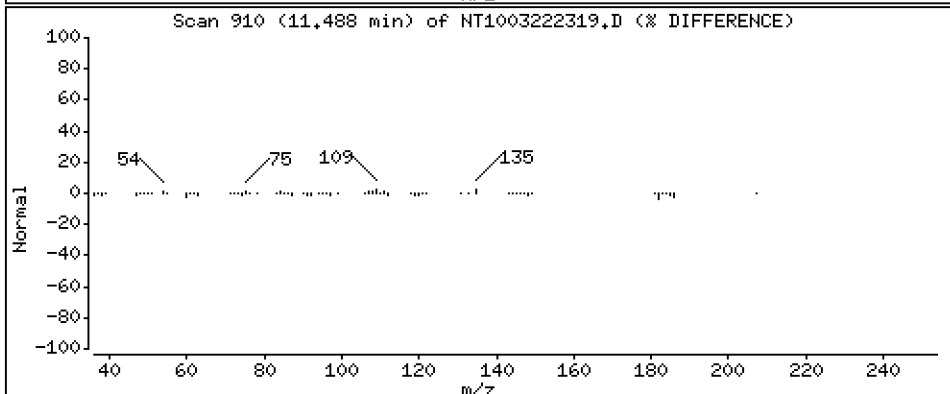
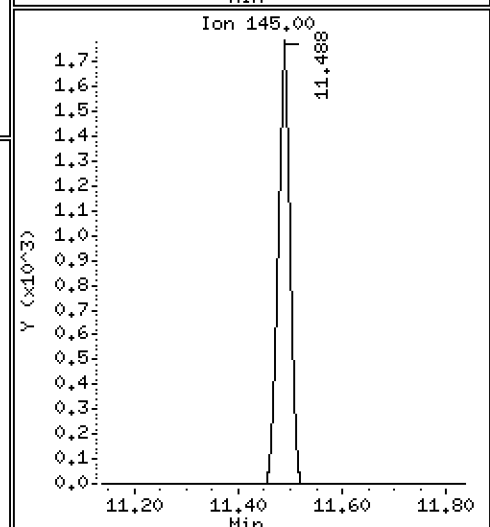
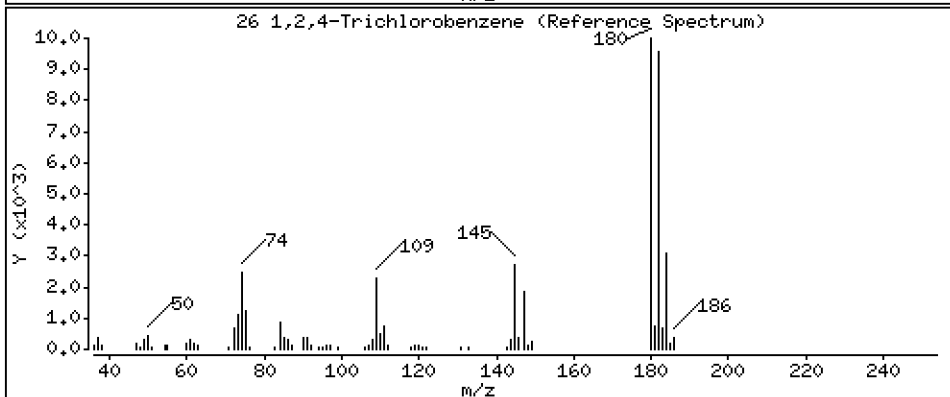
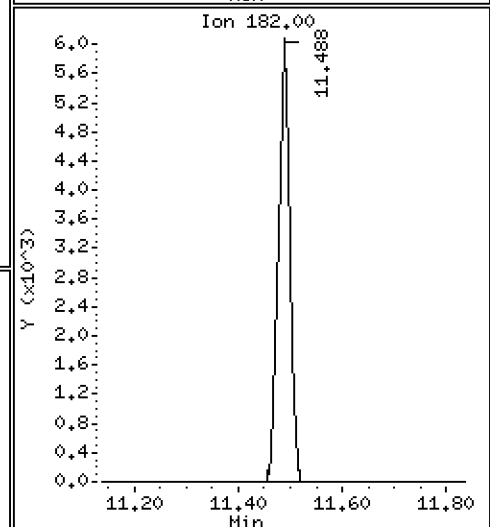
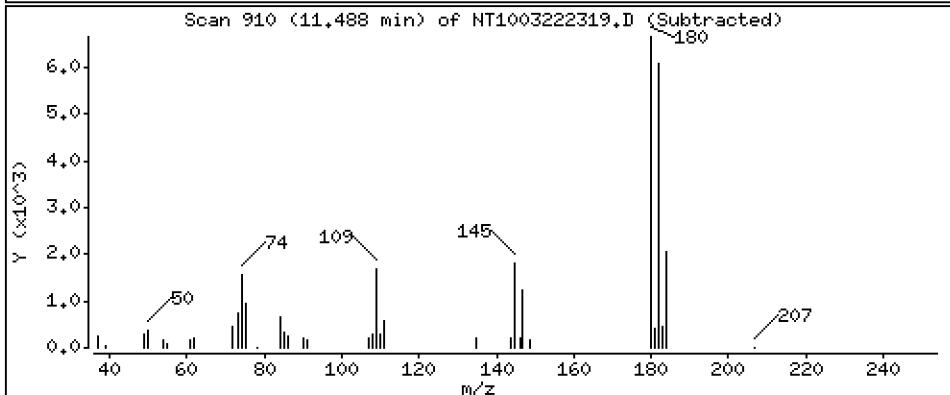
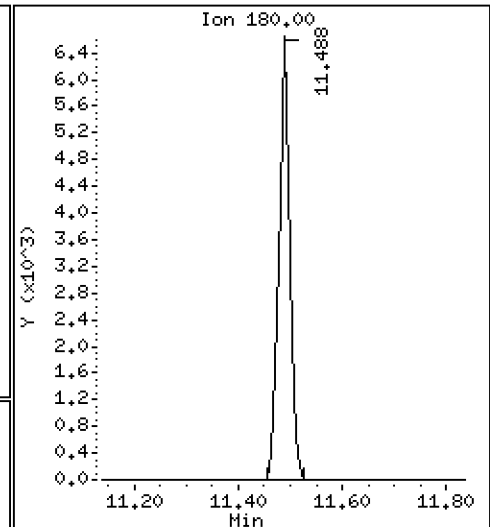
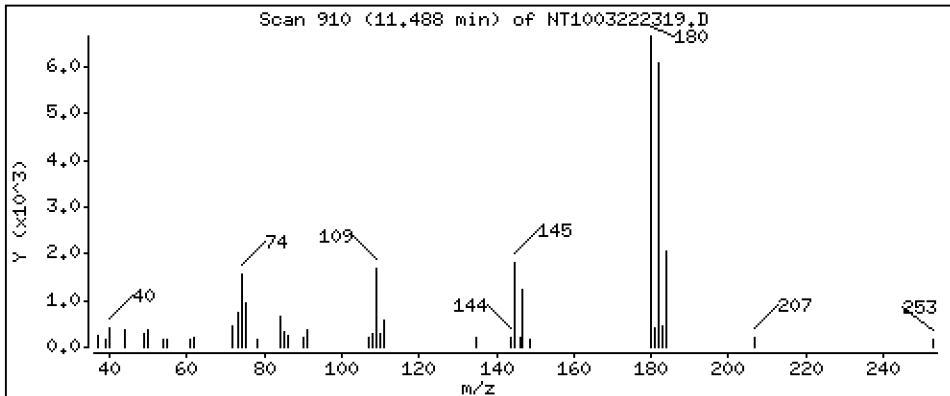
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 0,2281 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

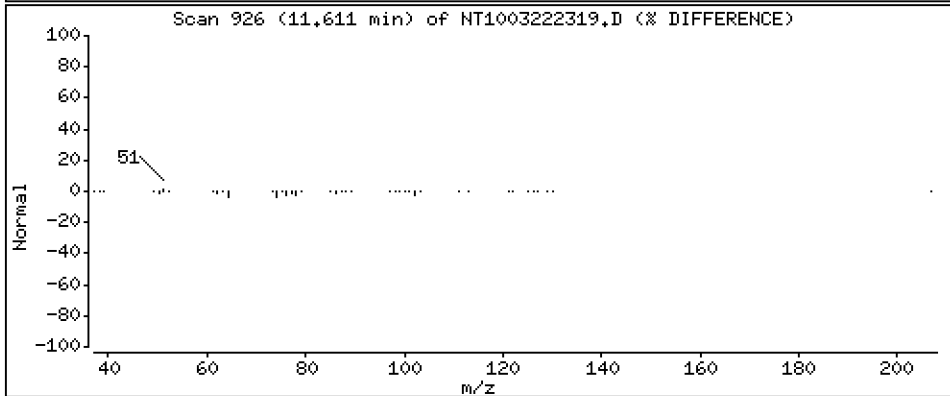
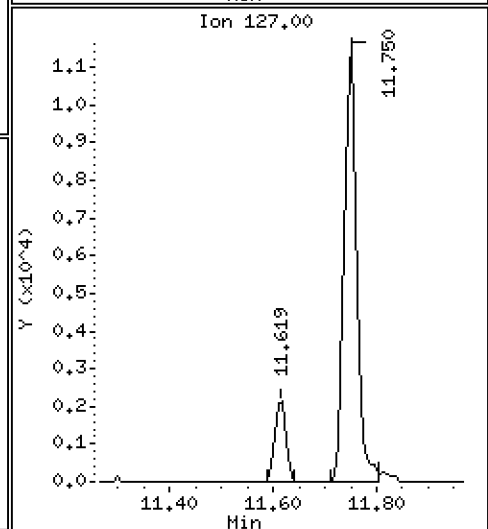
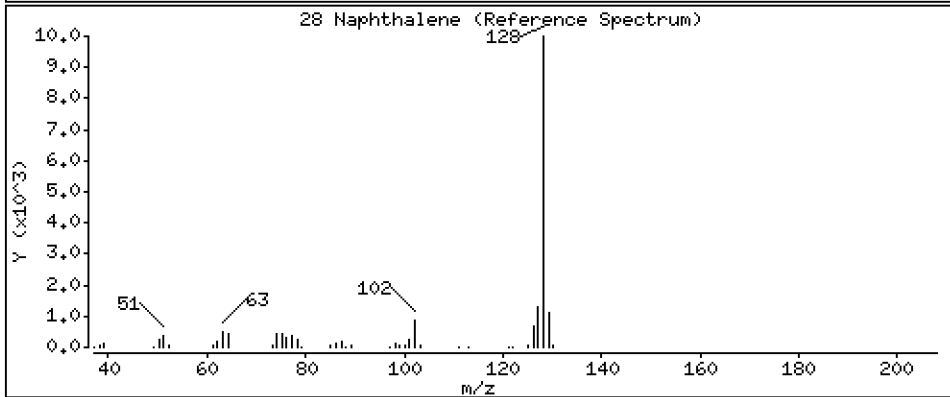
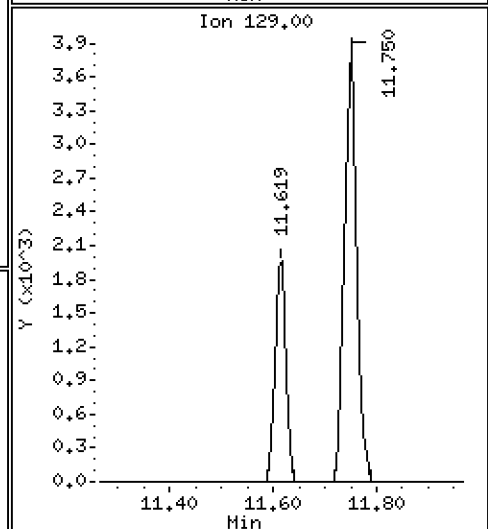
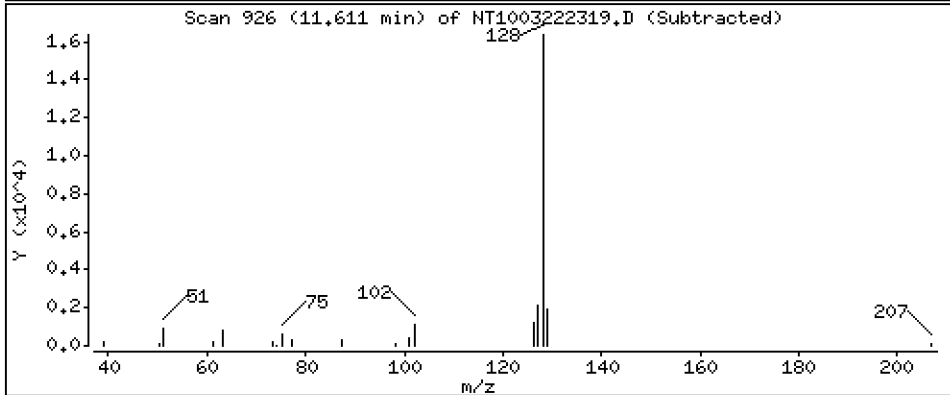
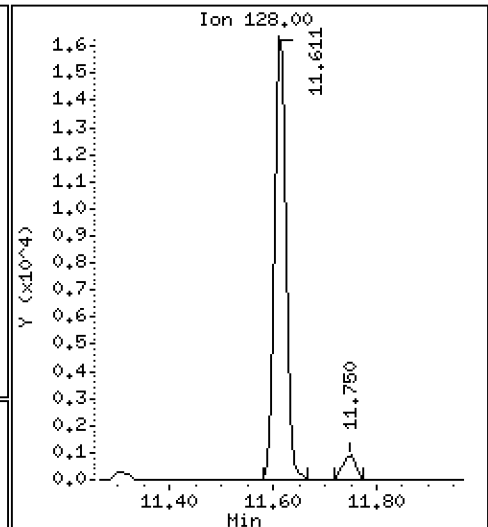
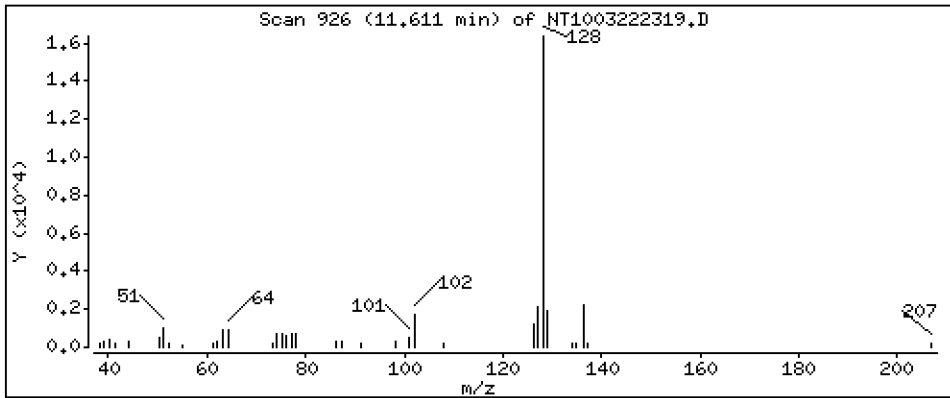
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 0,2079 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

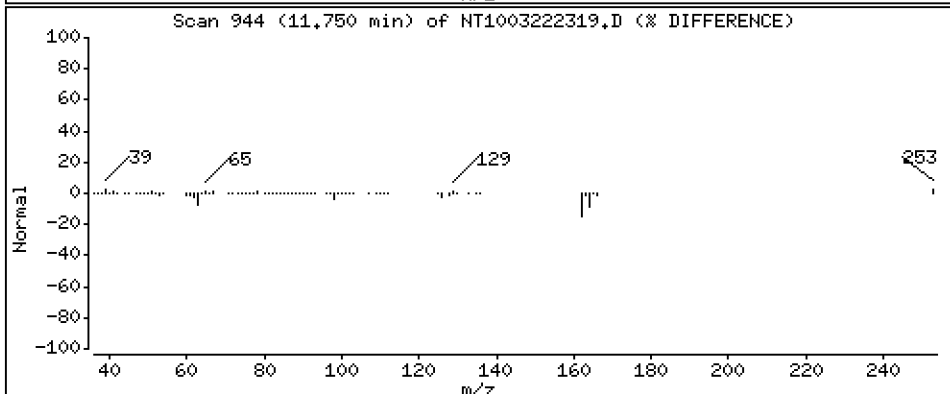
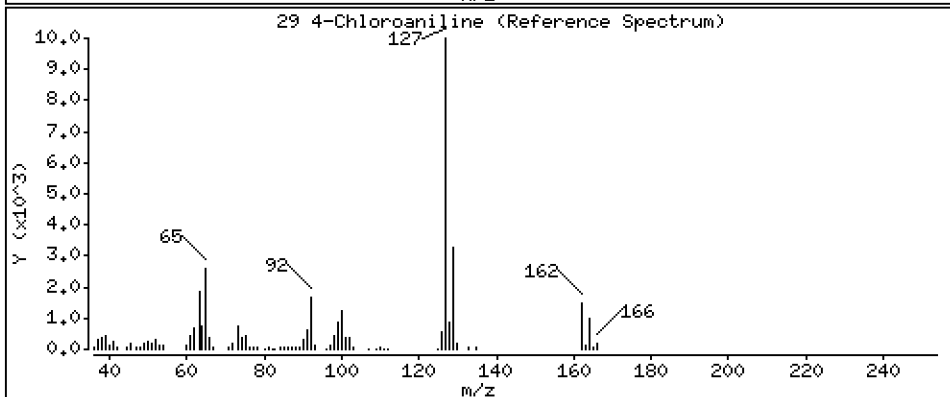
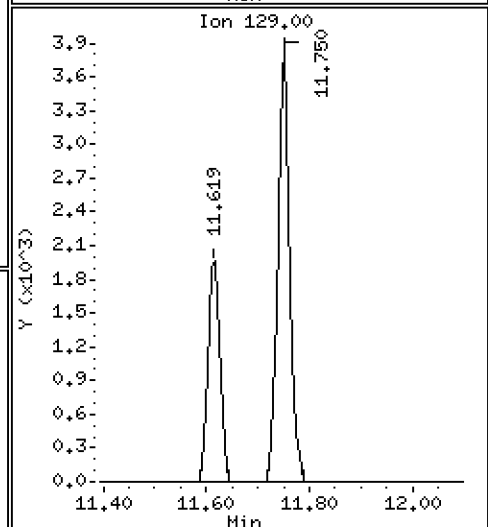
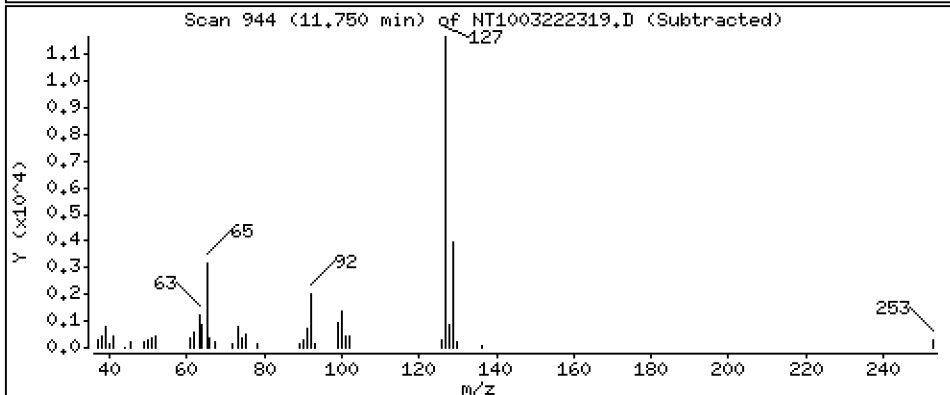
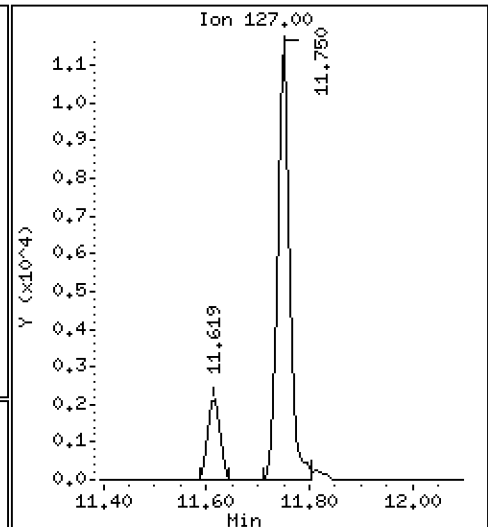
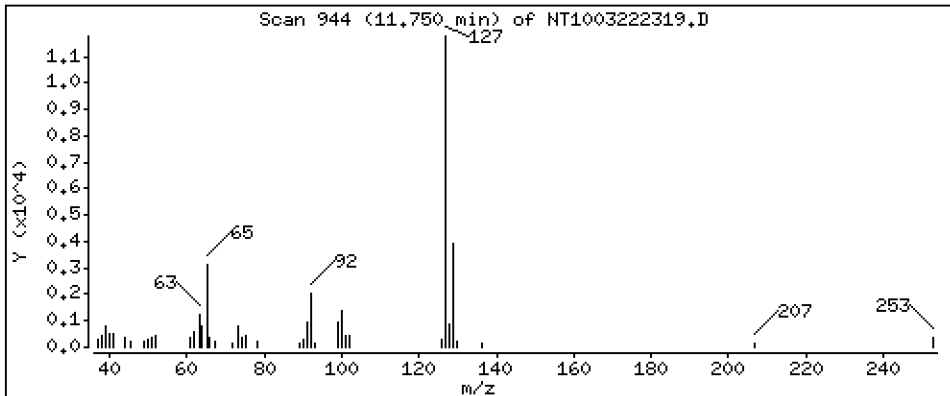
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

29 4-Chloroaniline

Concentration: 0,3783 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

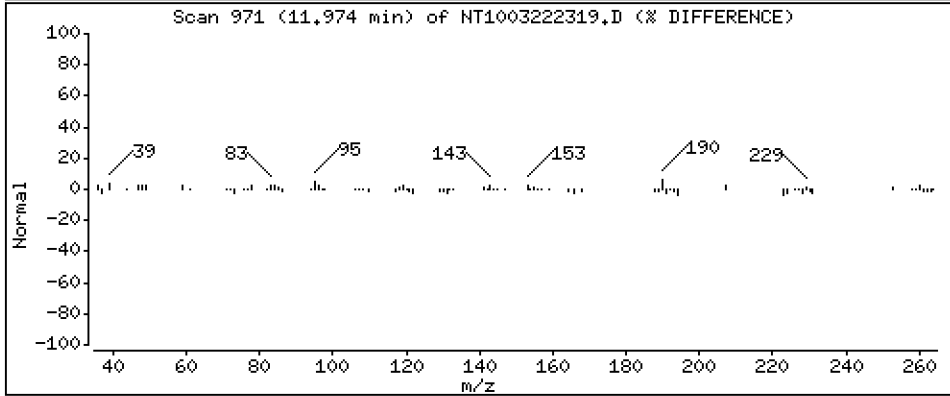
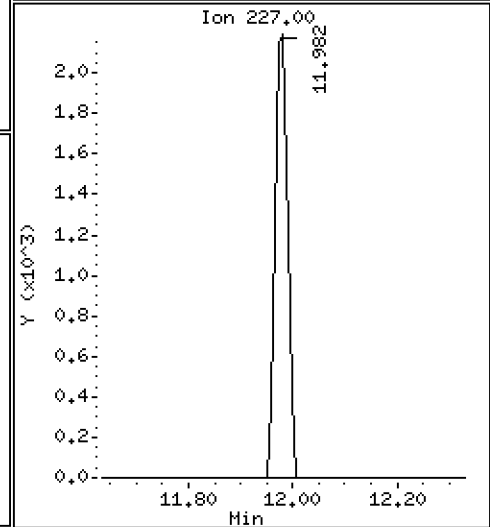
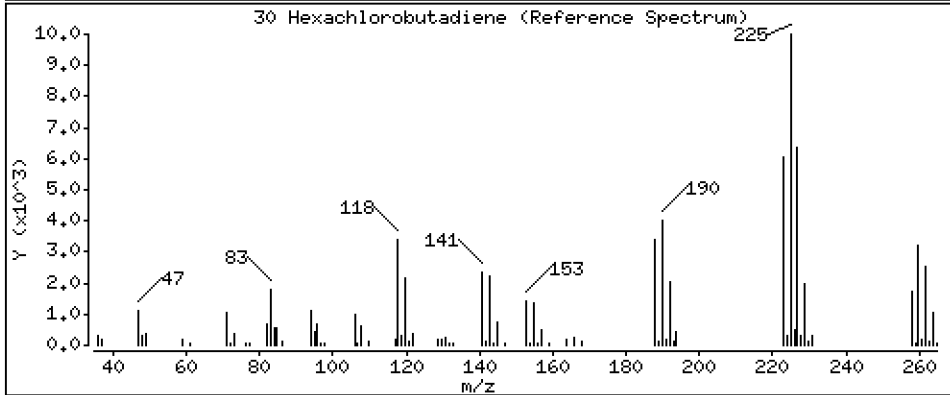
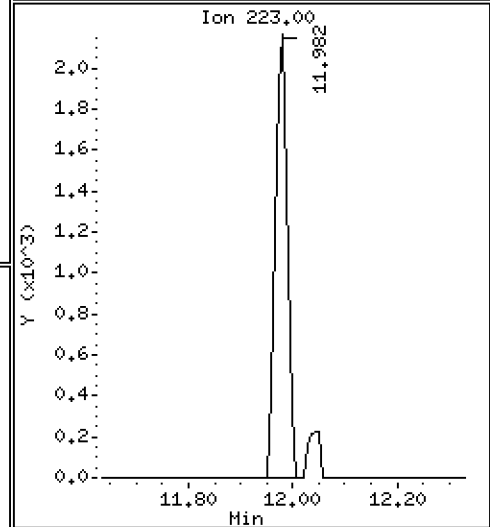
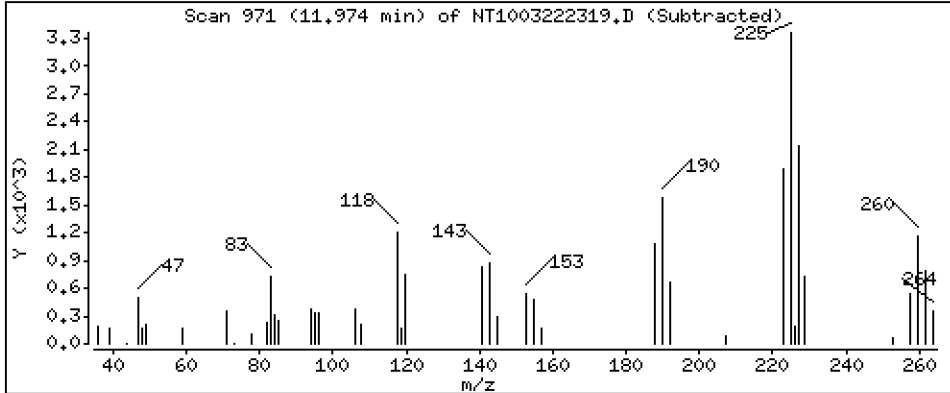
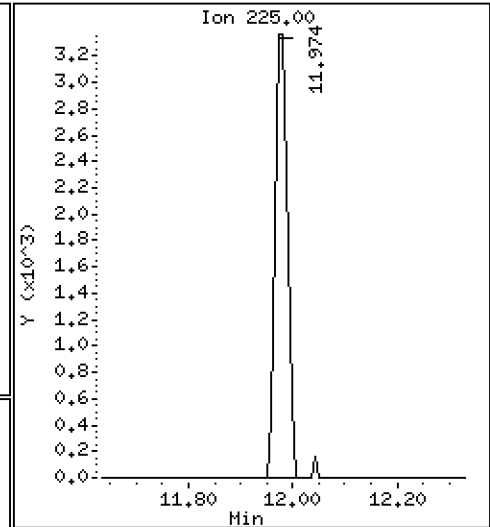
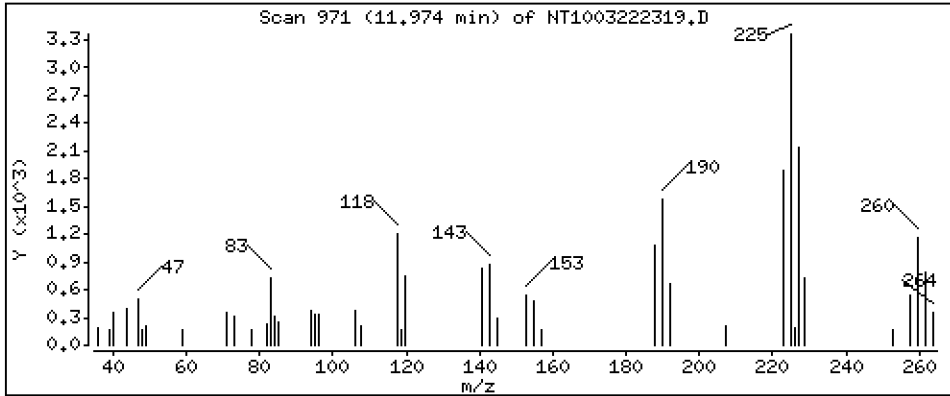
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 0,2194 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

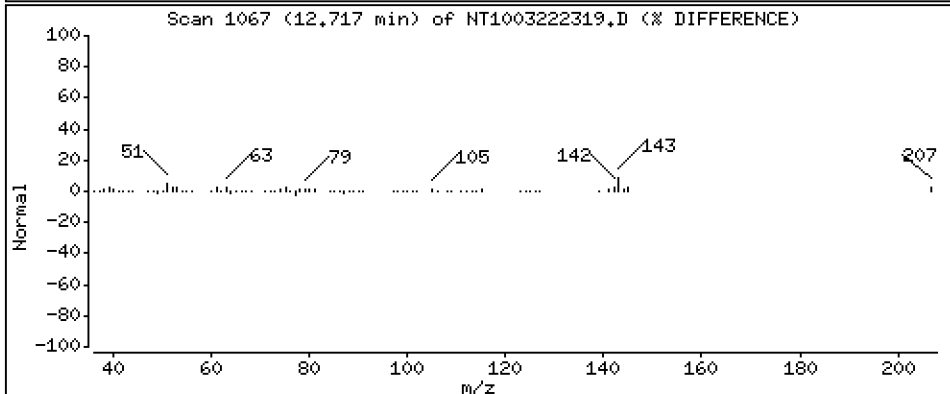
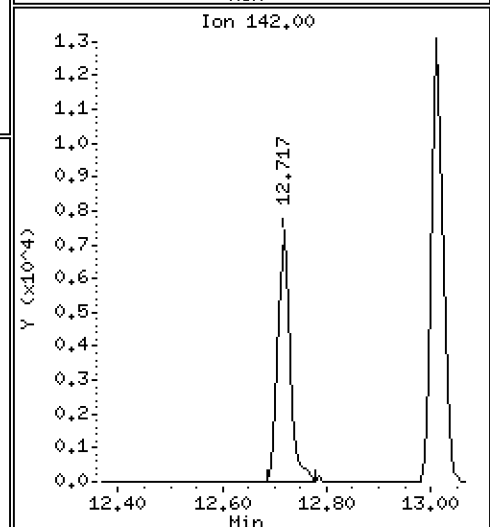
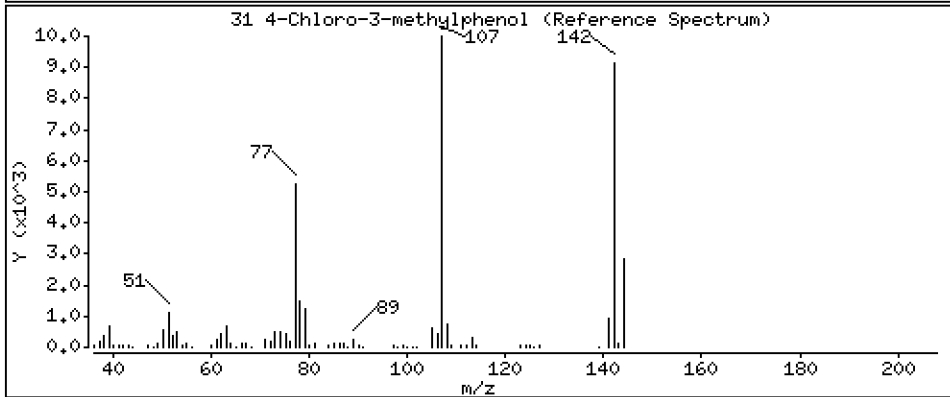
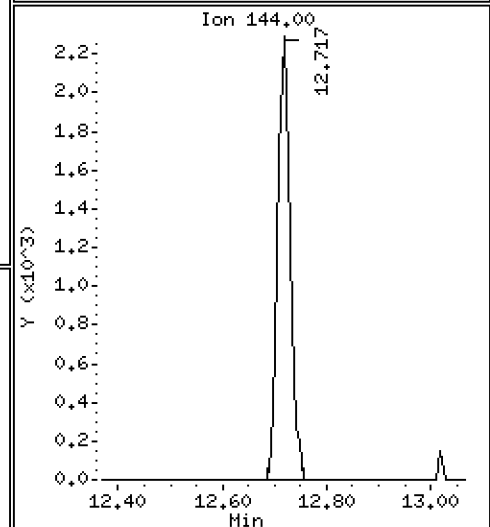
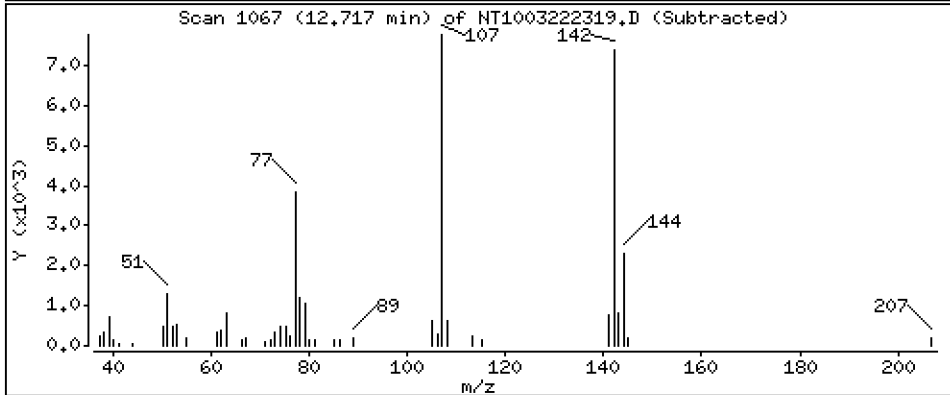
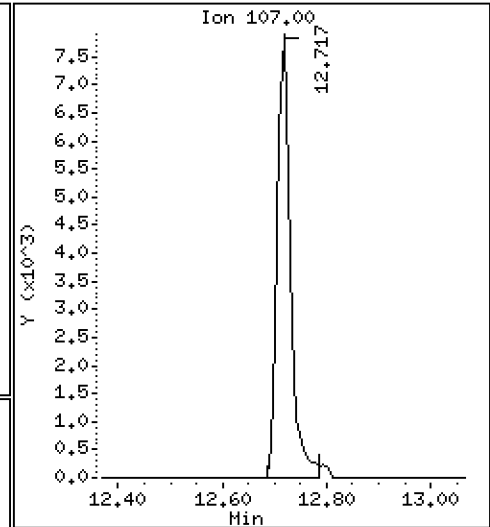
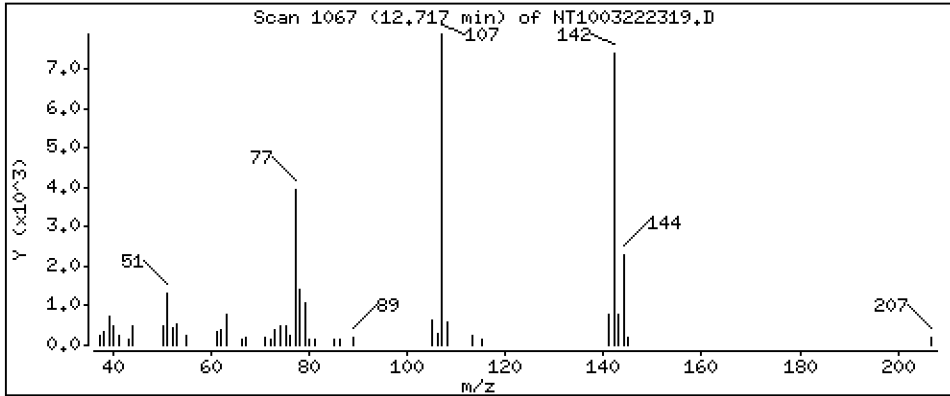
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

31 4-Chloro-3-methylphenol

Concentration: 0,3500 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

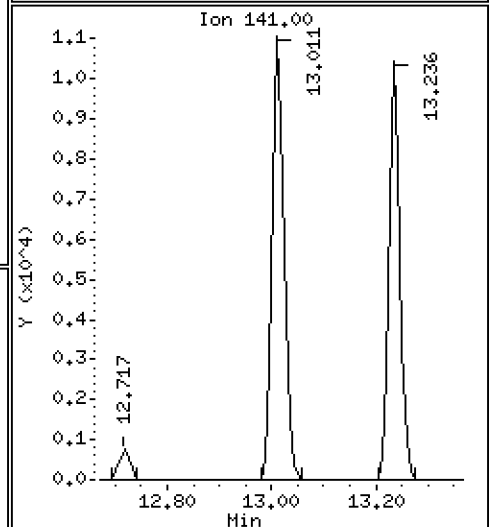
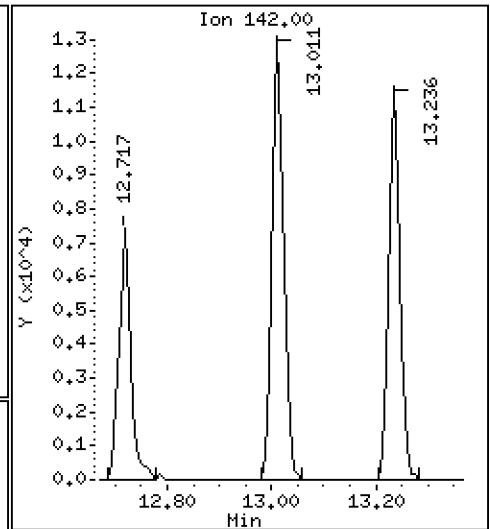
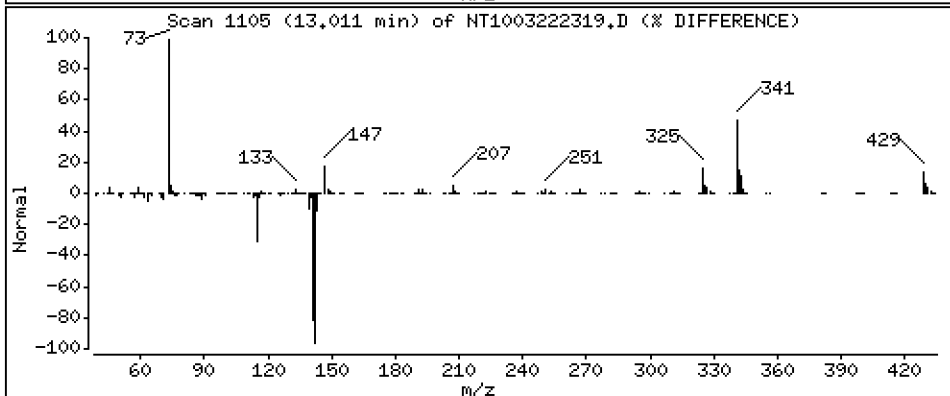
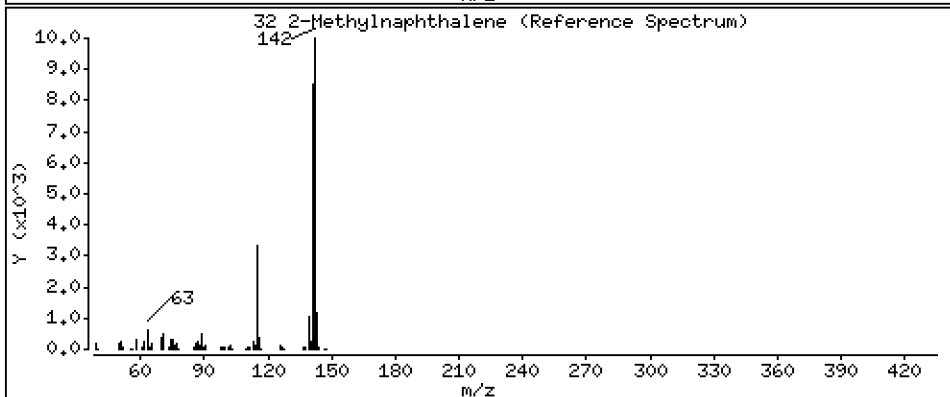
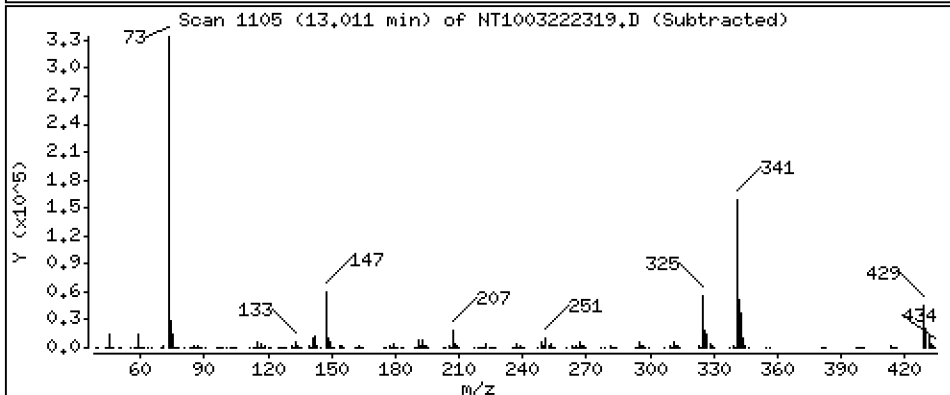
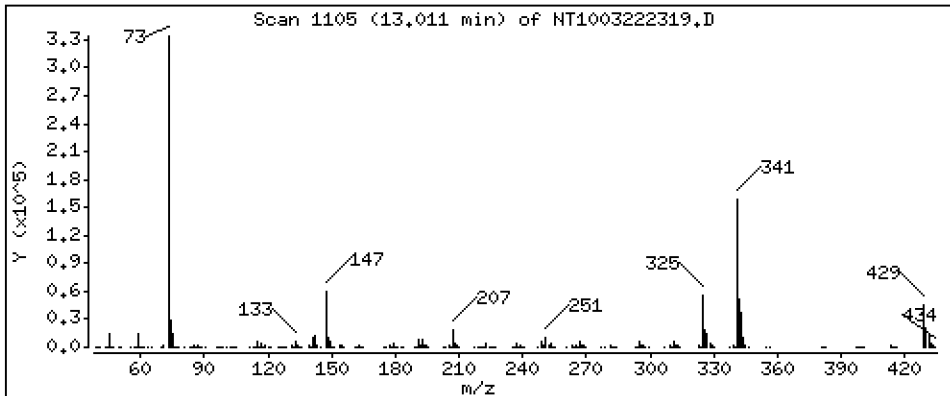
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 0,2137 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

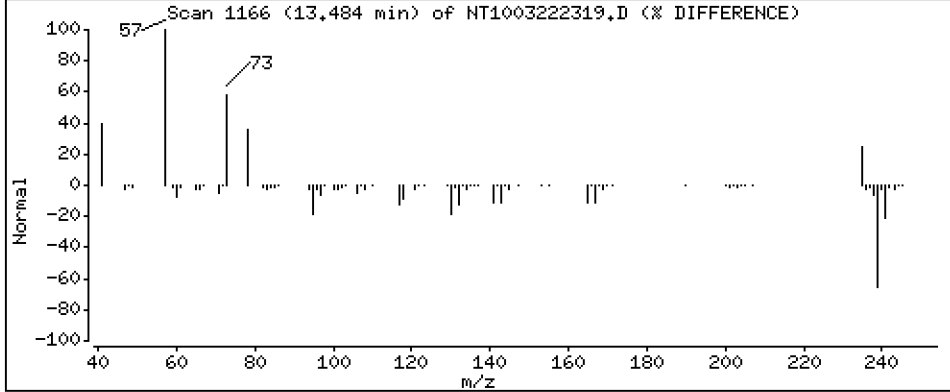
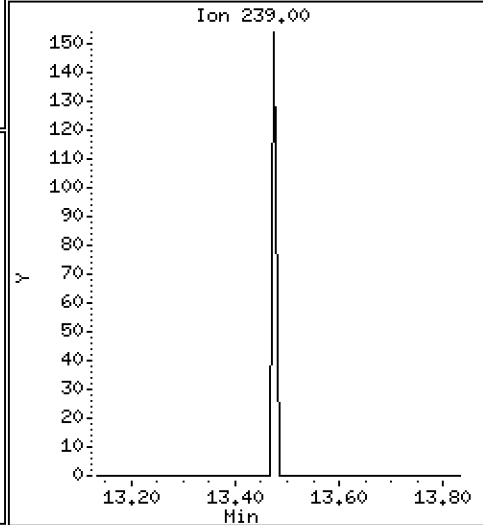
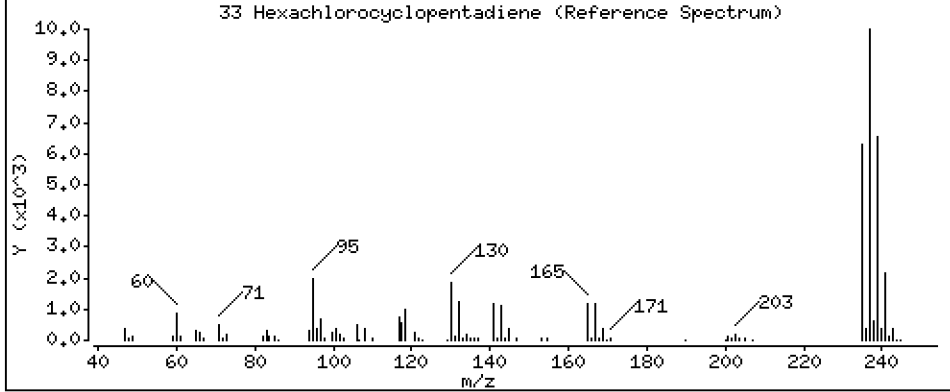
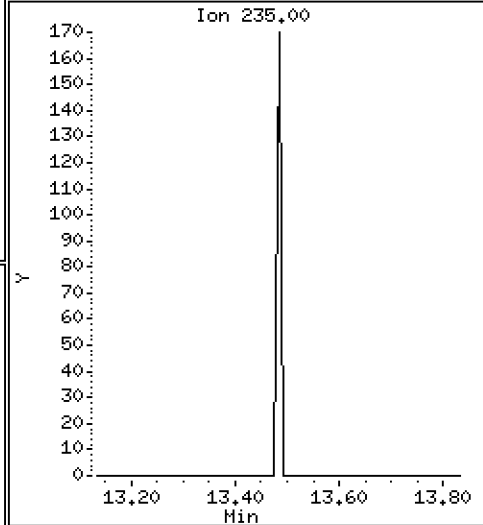
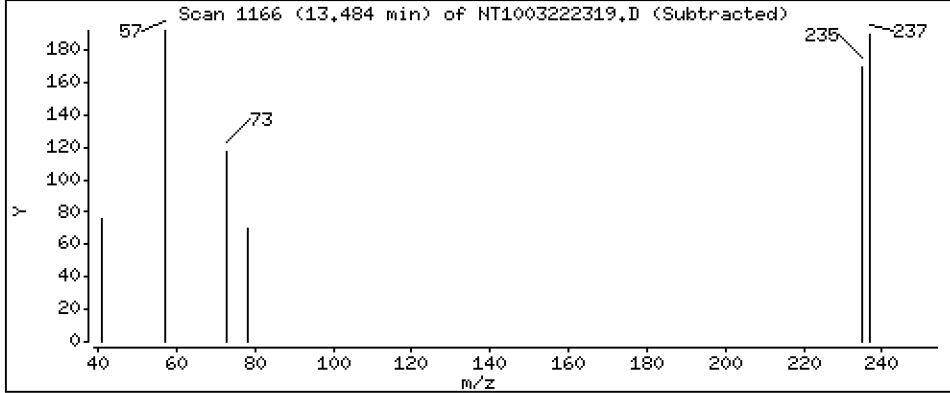
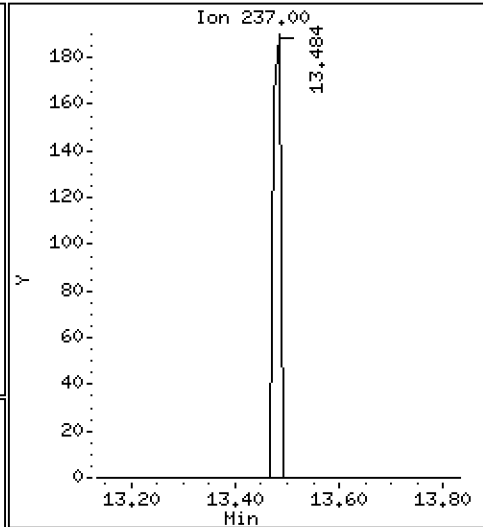
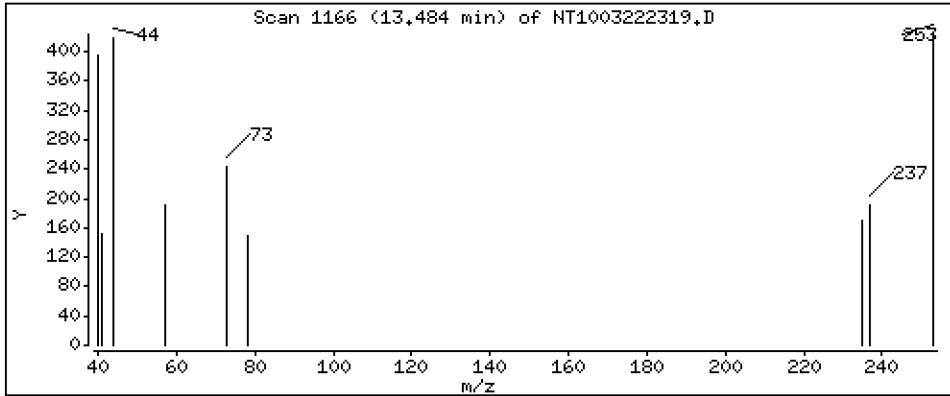
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

33 Hexachlorocyclopentadiene

Concentration: 0,006755 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

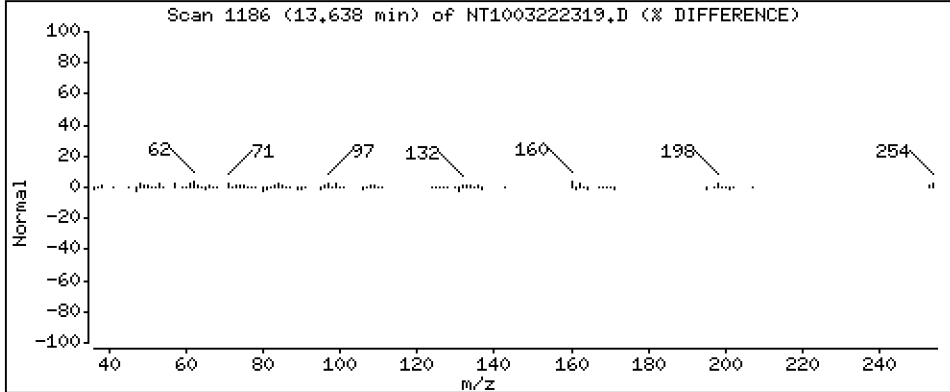
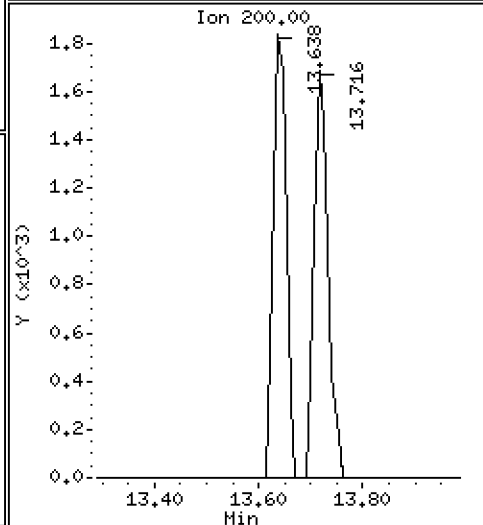
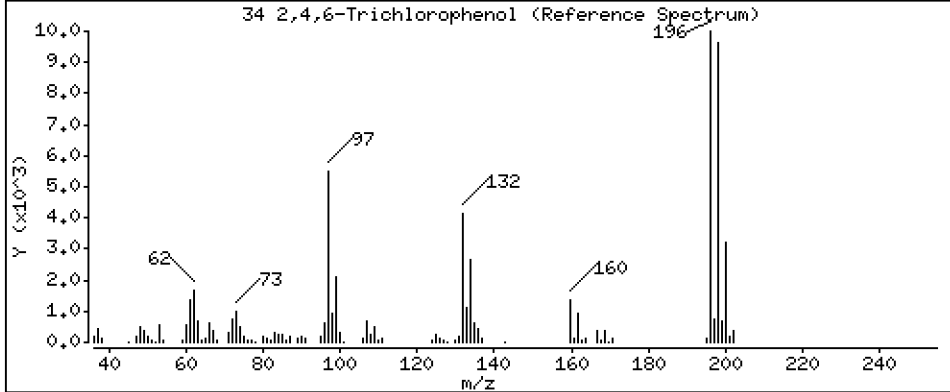
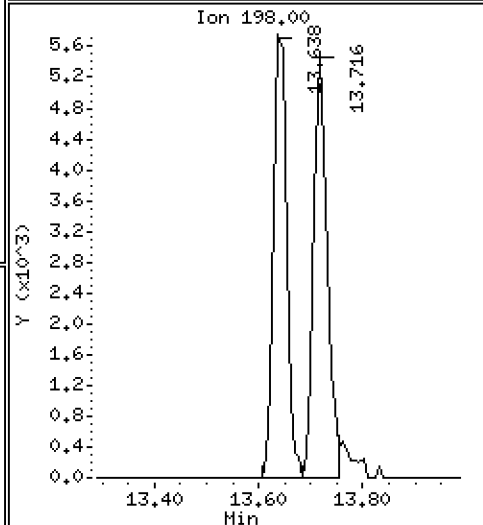
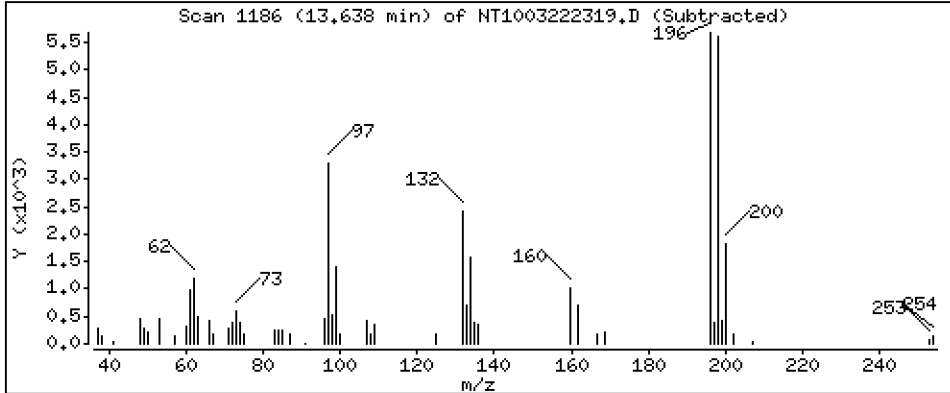
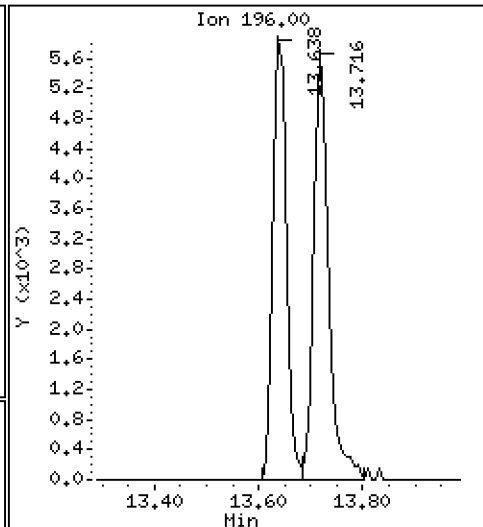
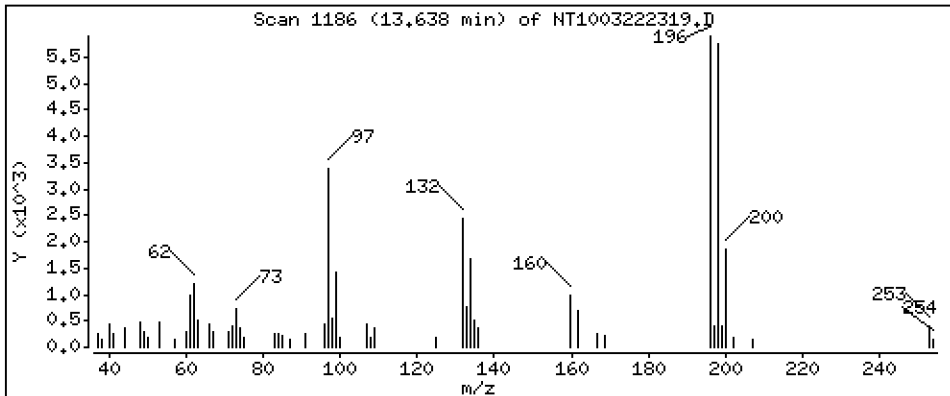
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

34 2,4,6-Trichlorophenol

Concentration: 0,3908 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

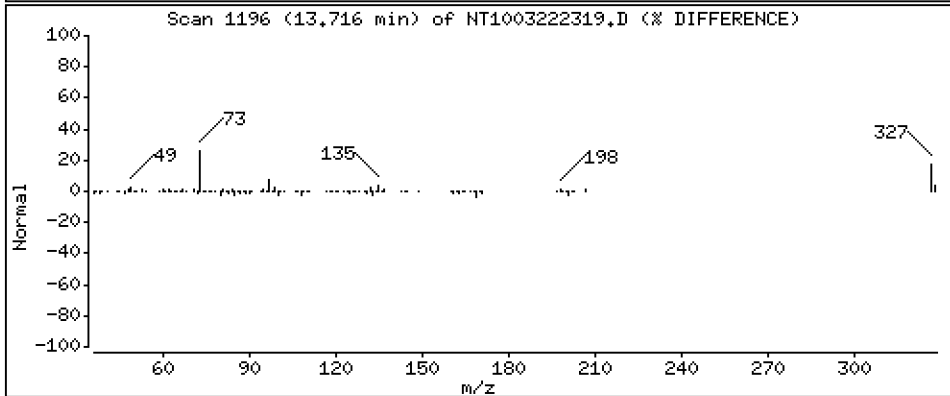
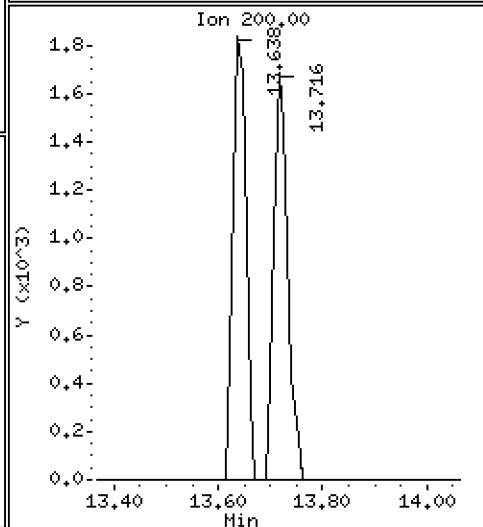
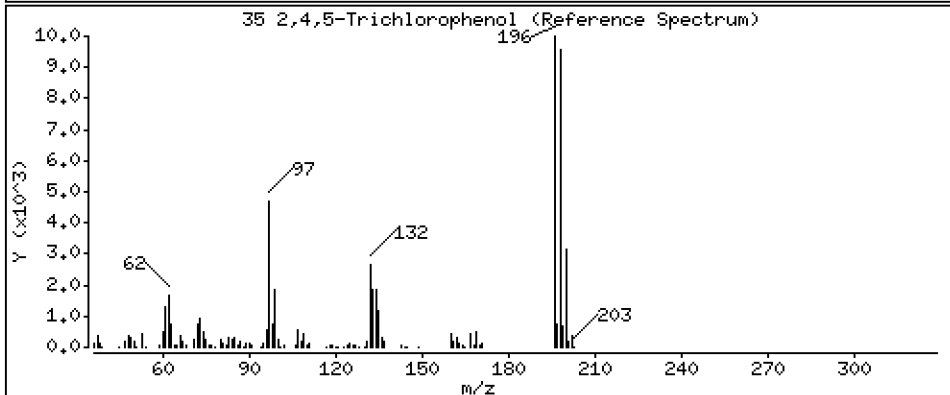
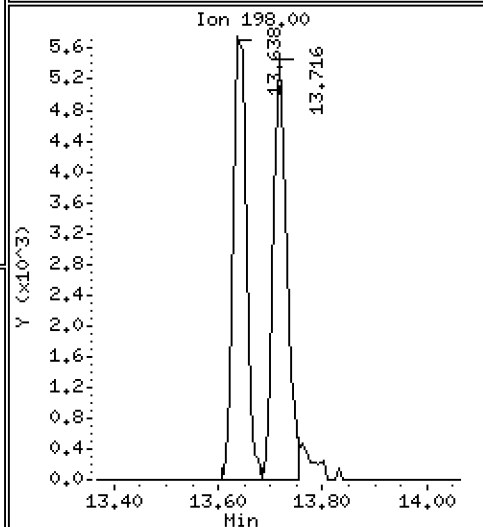
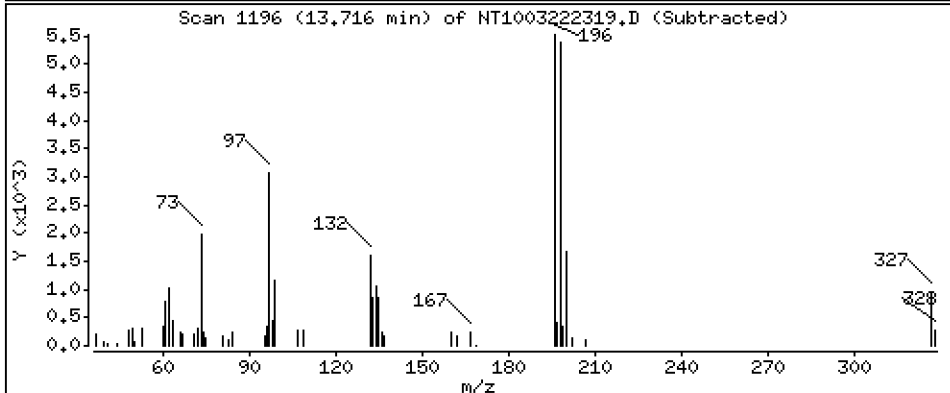
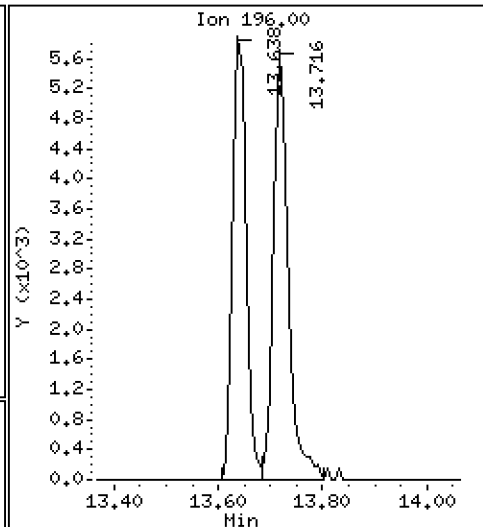
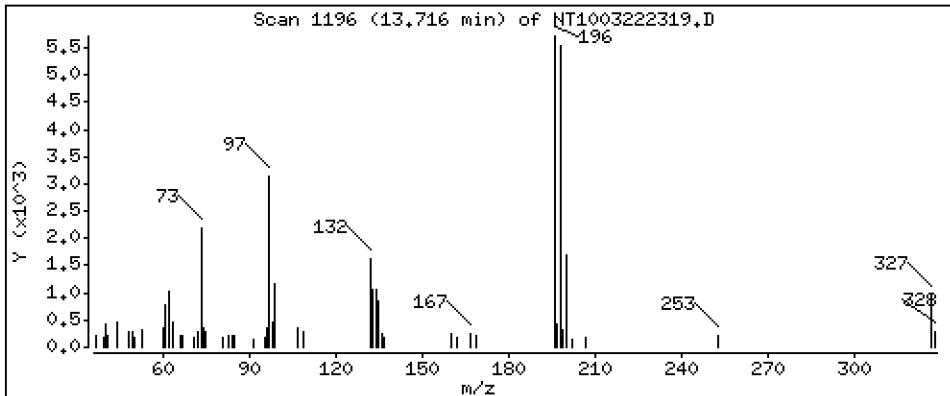
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

35 2,4,5-Trichlorophenol

Concentration: 0,3791 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

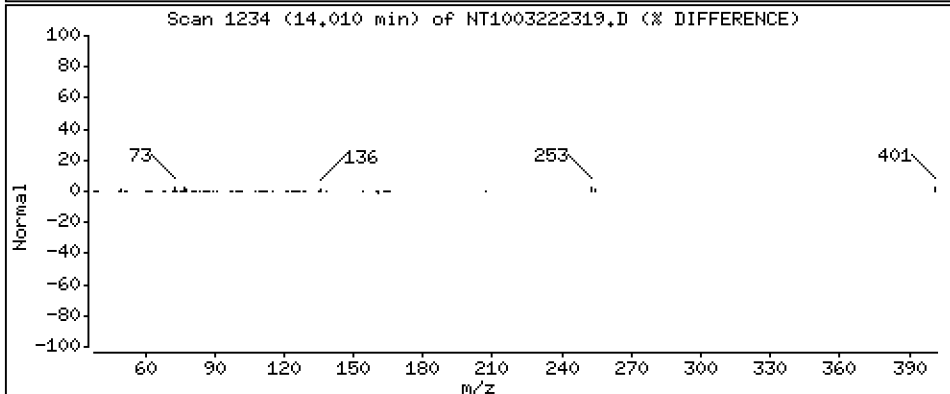
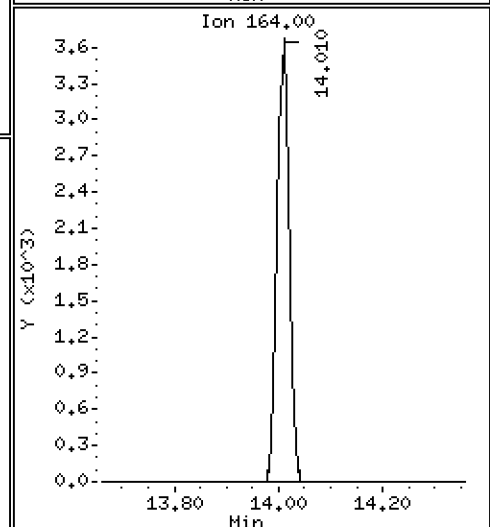
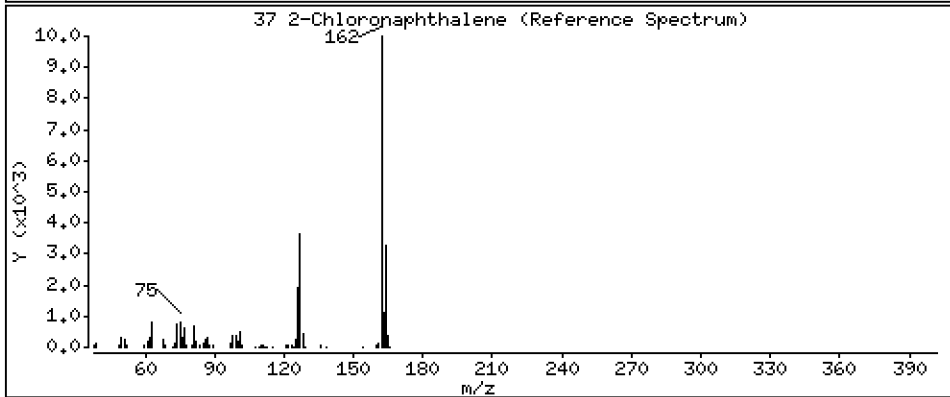
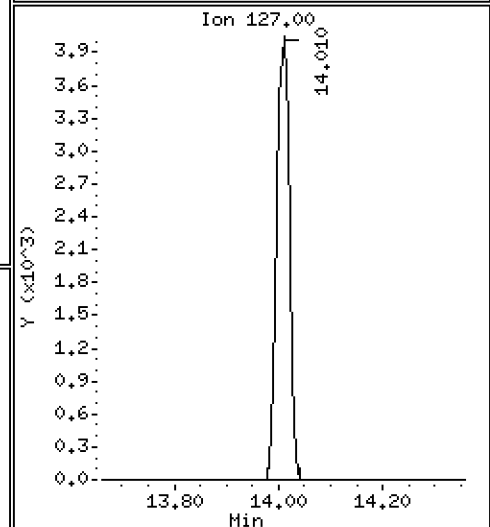
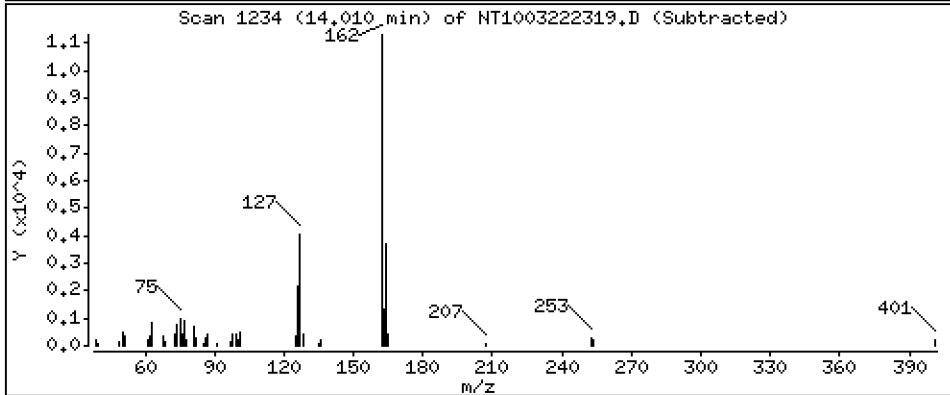
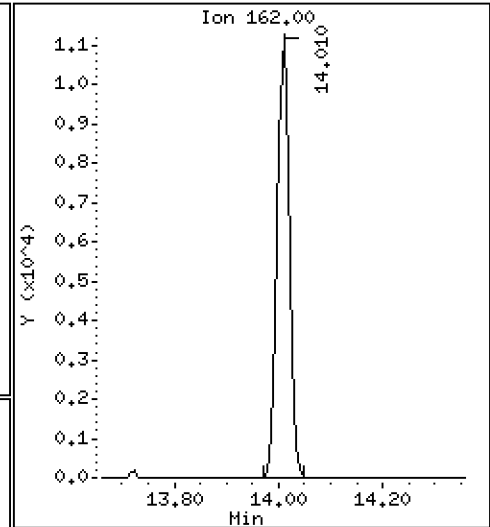
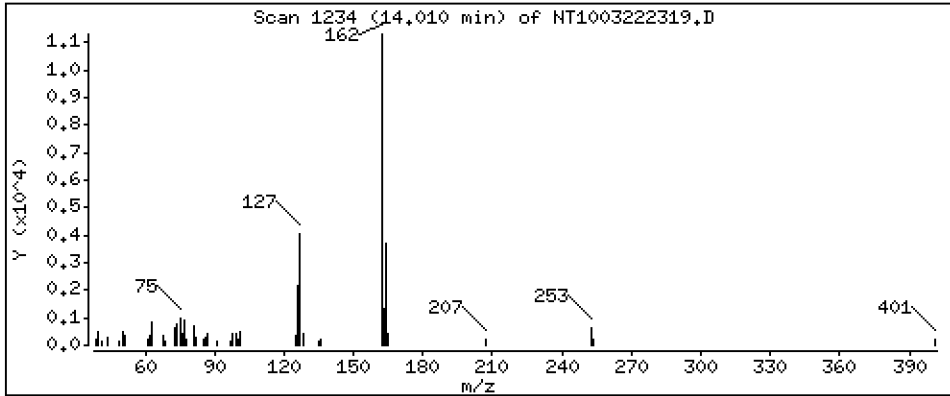
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

37 2-Chloronaphthalene

Concentration: 0,2044 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

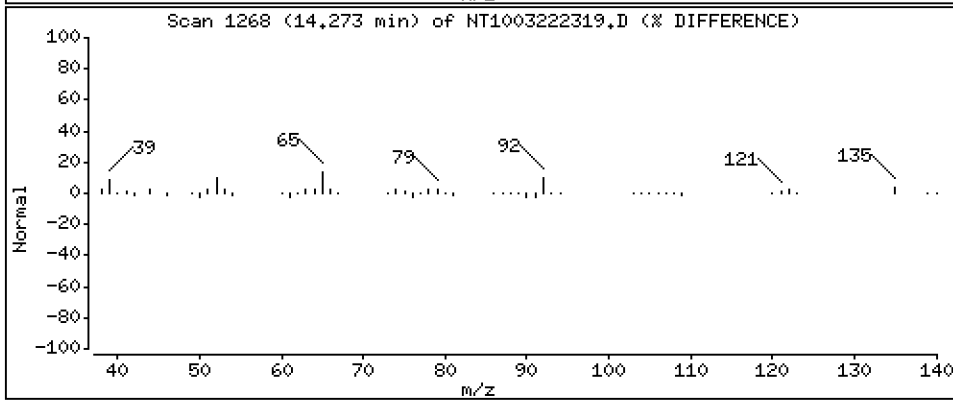
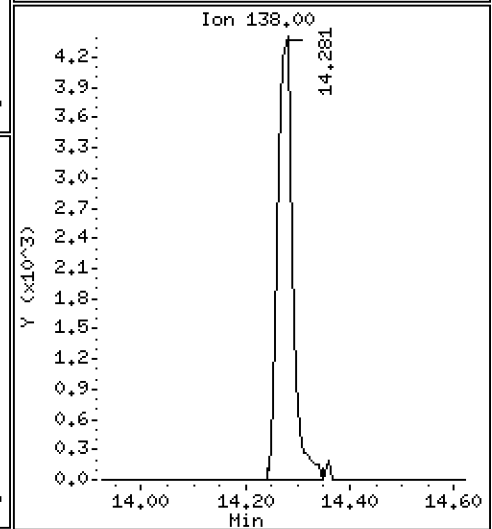
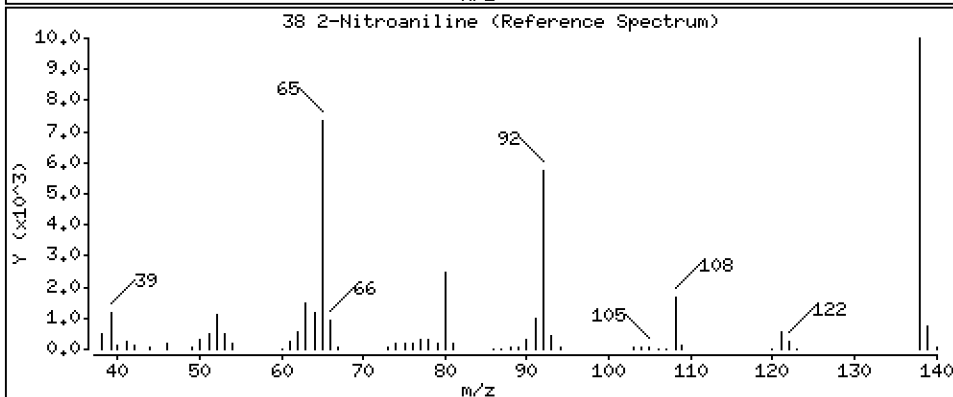
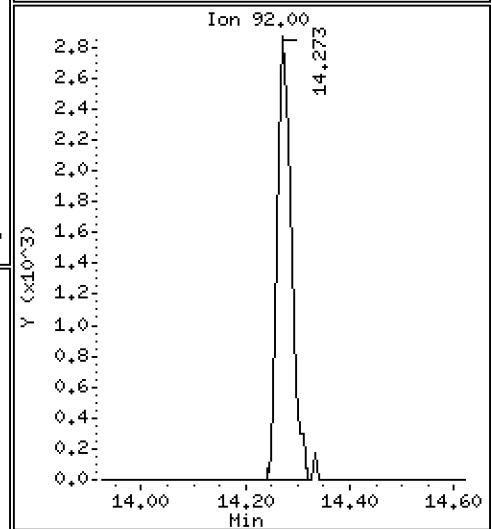
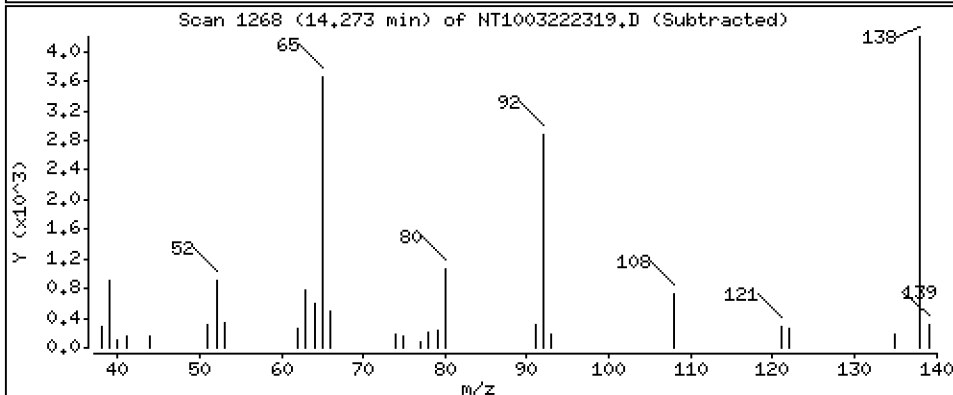
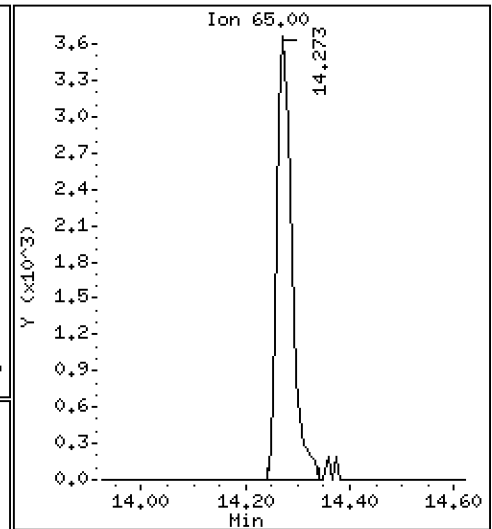
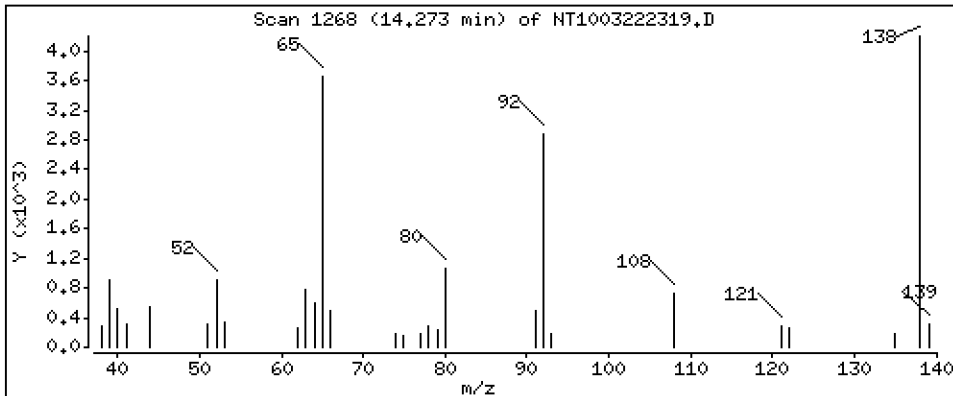
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

38 2-Nitroaniline

Concentration: 0,3006 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

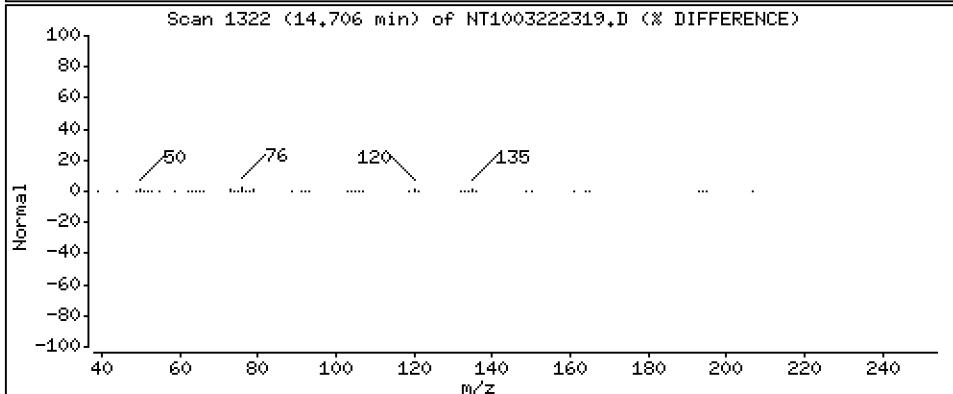
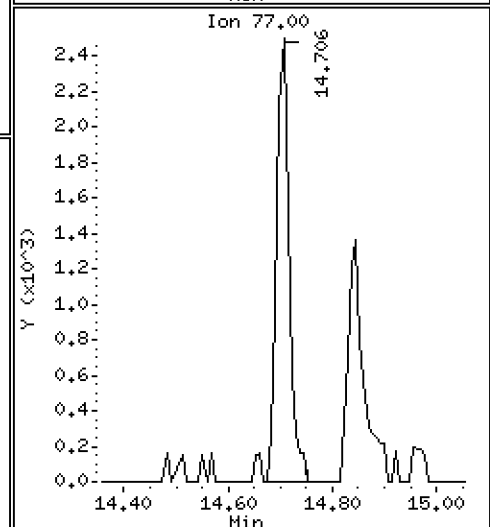
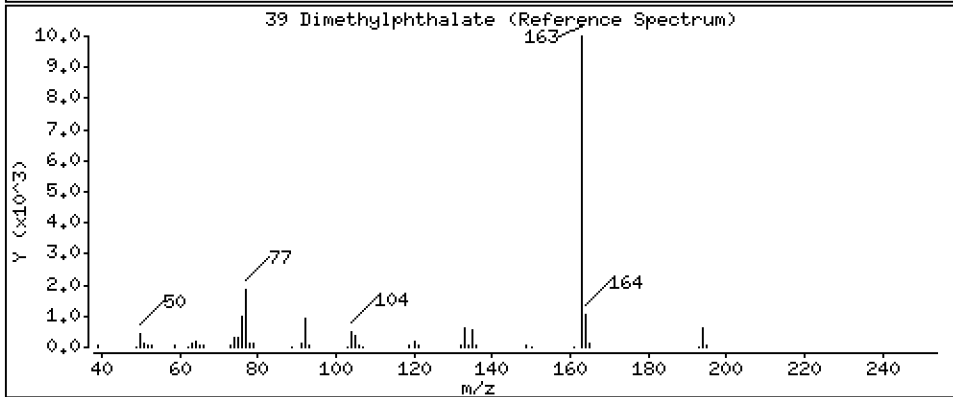
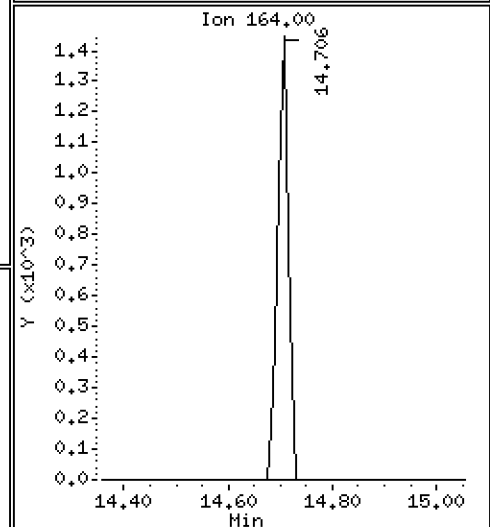
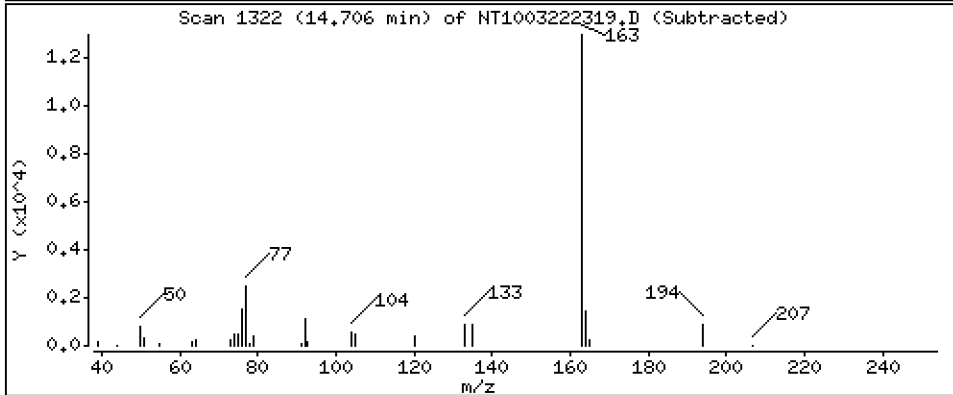
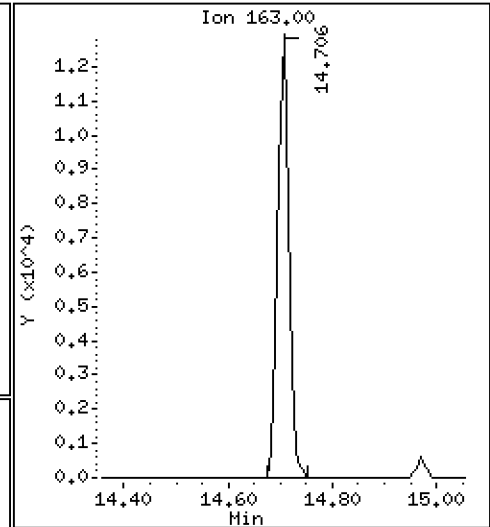
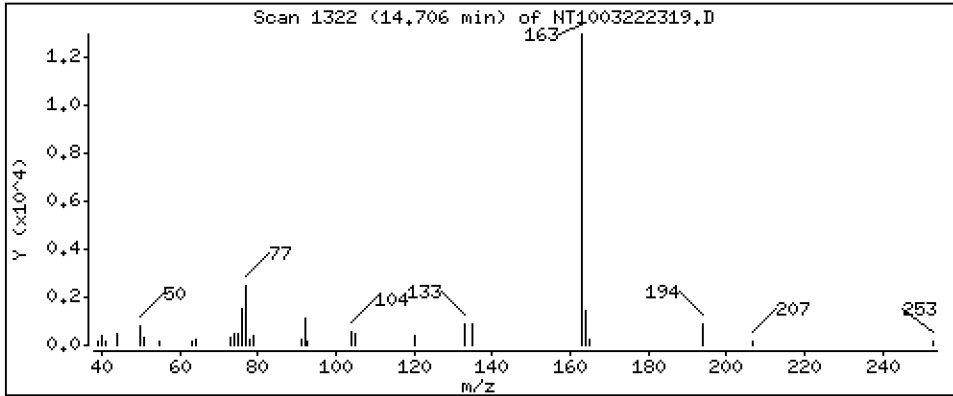
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 0,2123 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

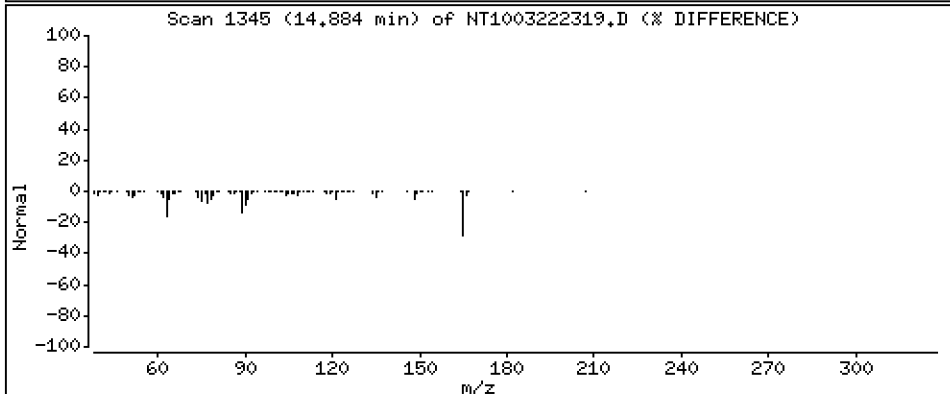
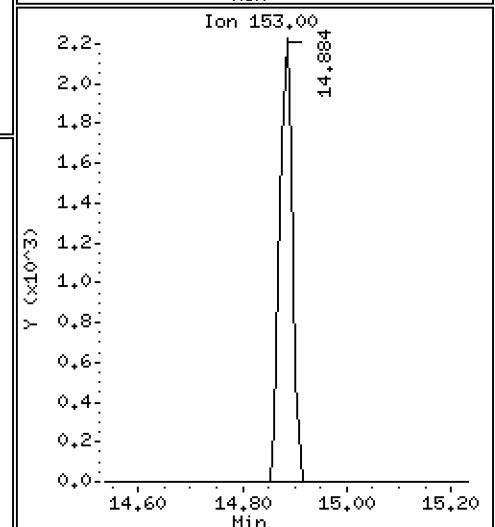
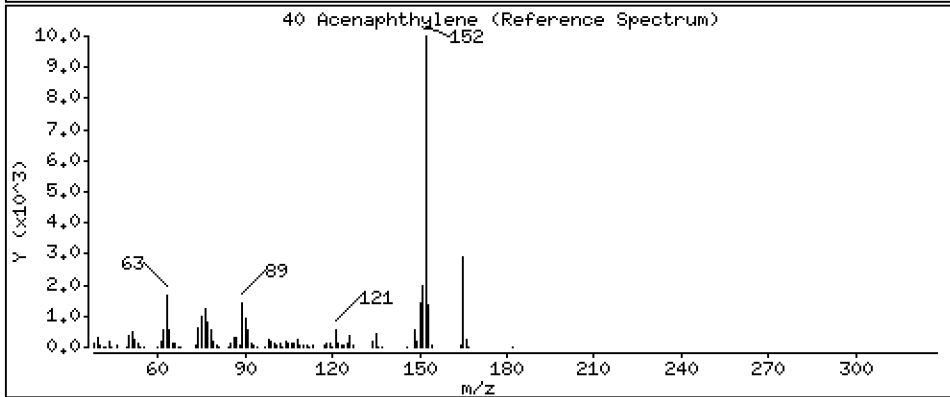
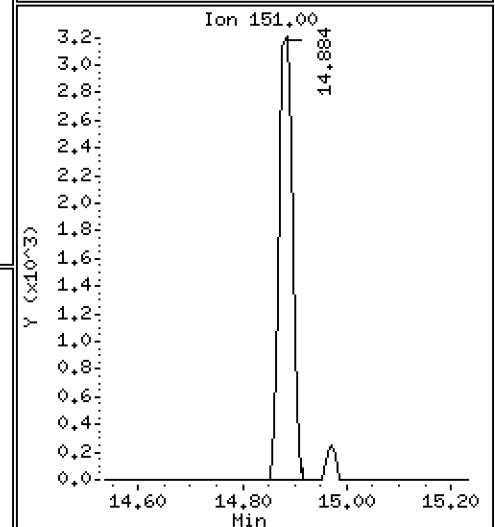
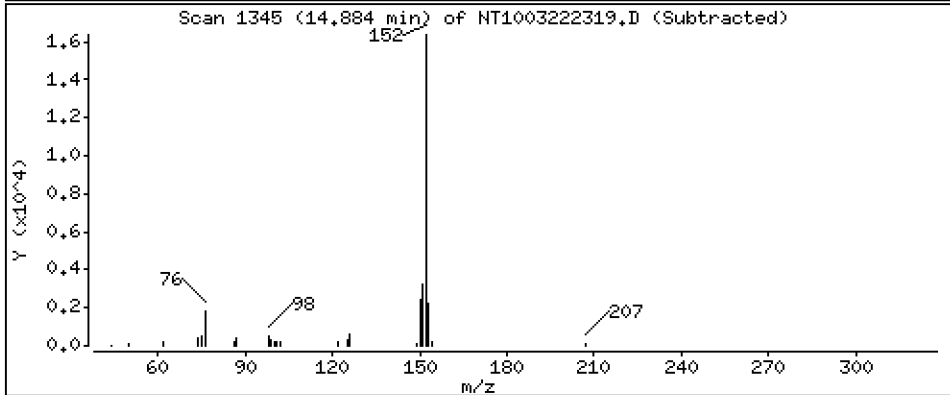
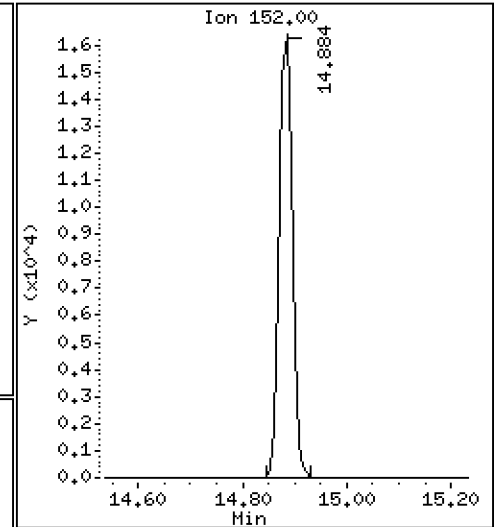
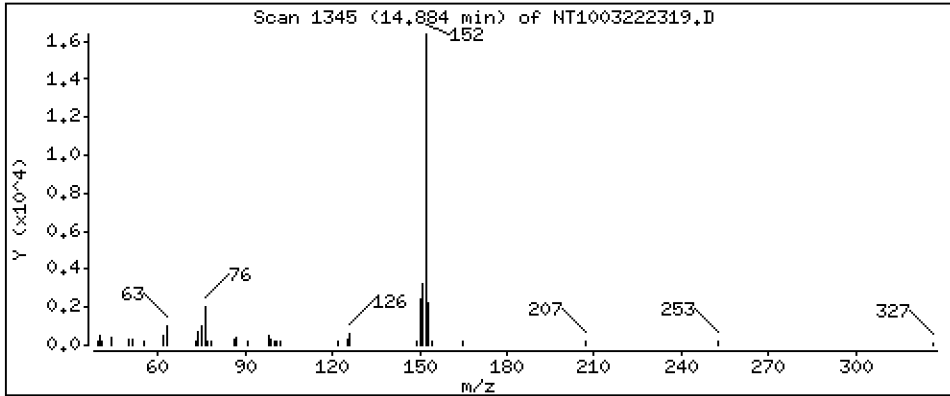
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 0,2078 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

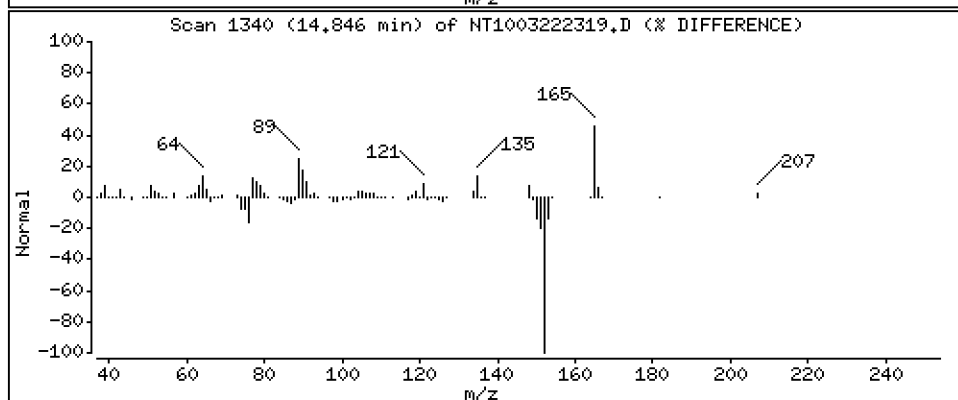
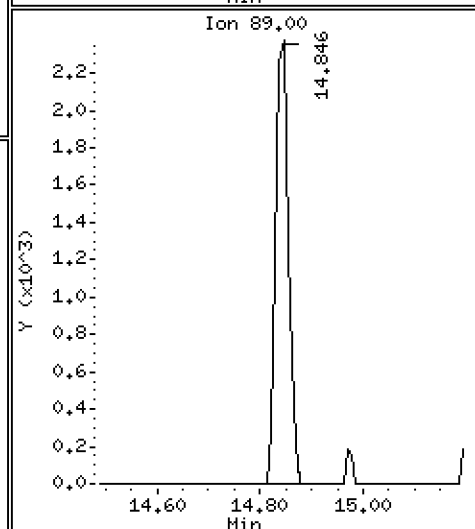
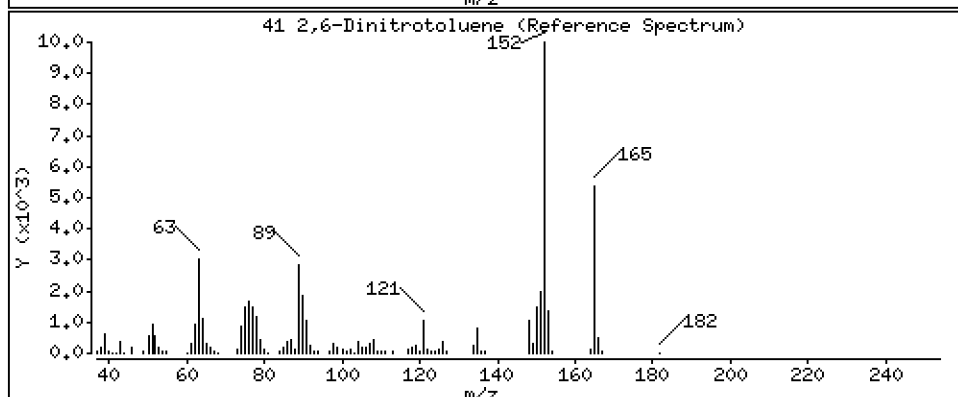
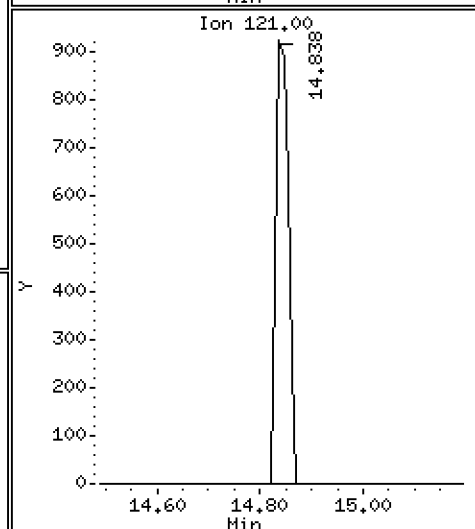
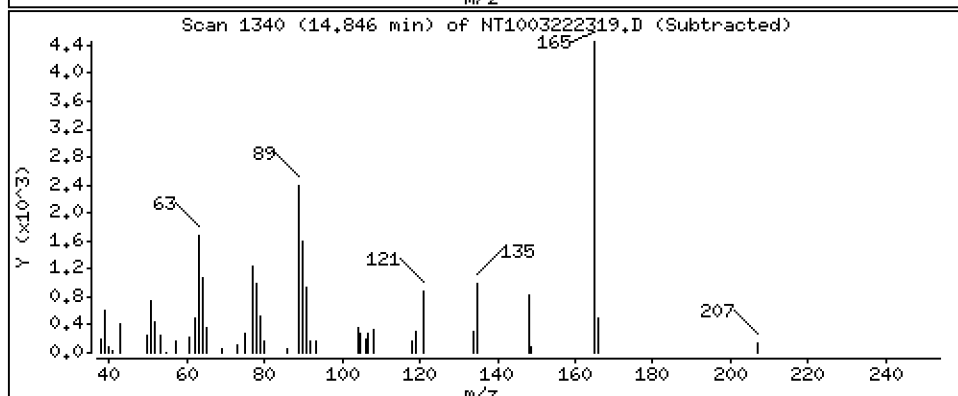
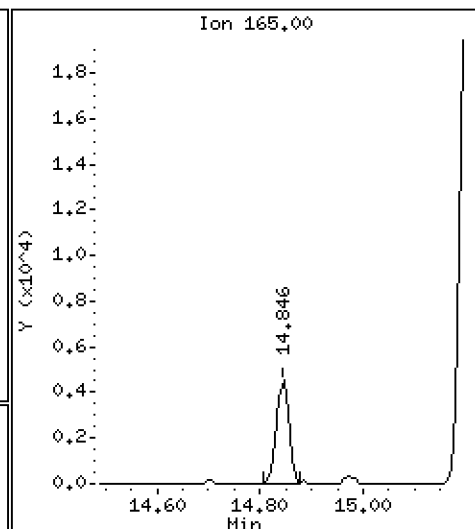
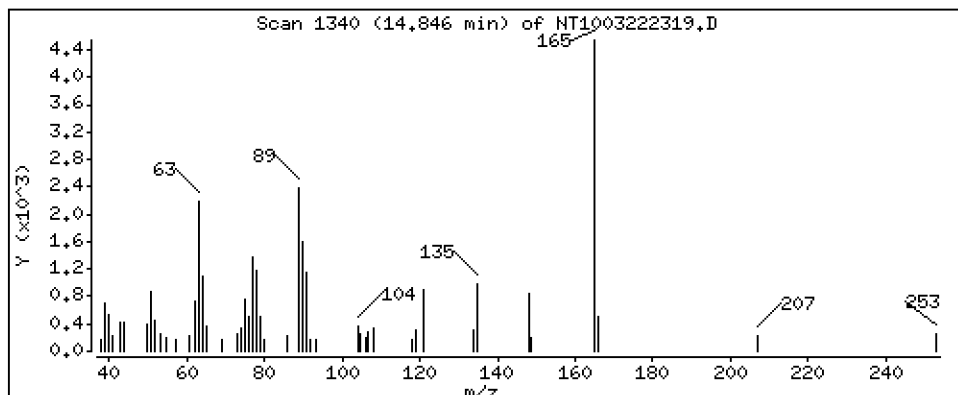
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

41 2,6-Dinitrotoluene

Concentration: 0,3889 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

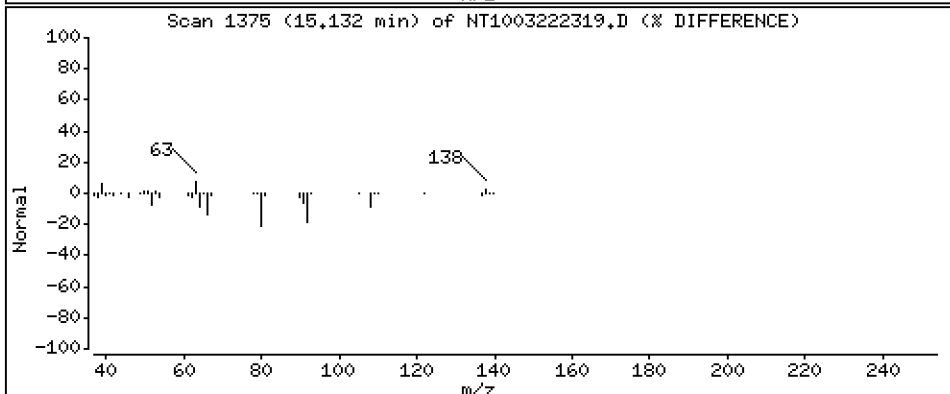
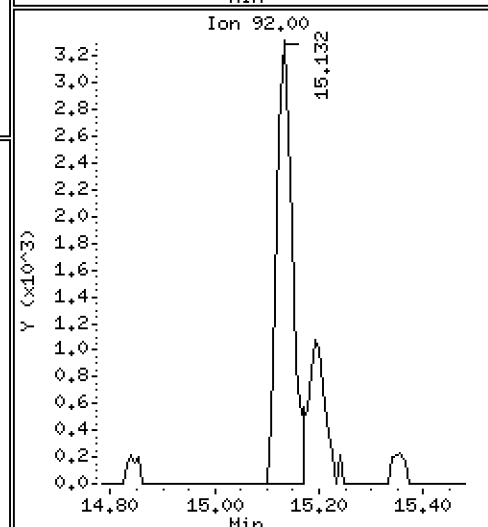
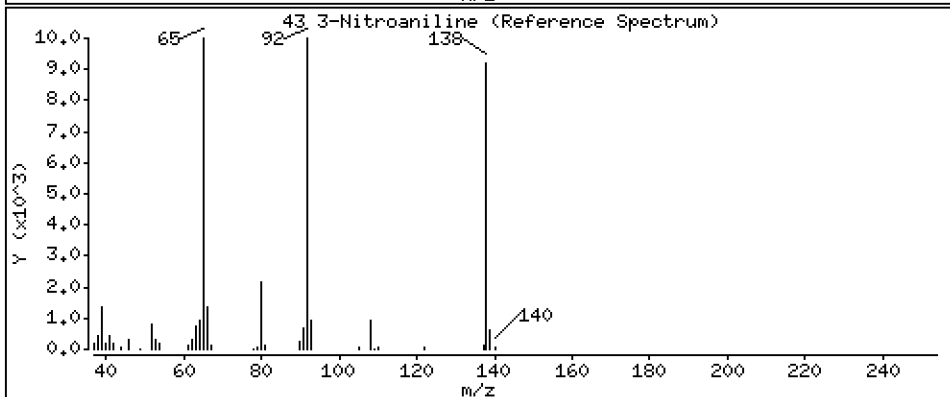
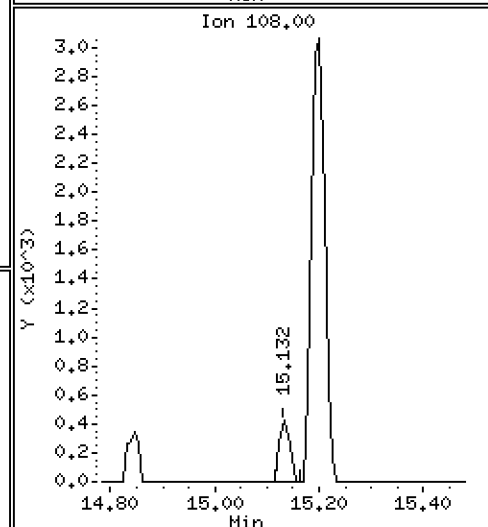
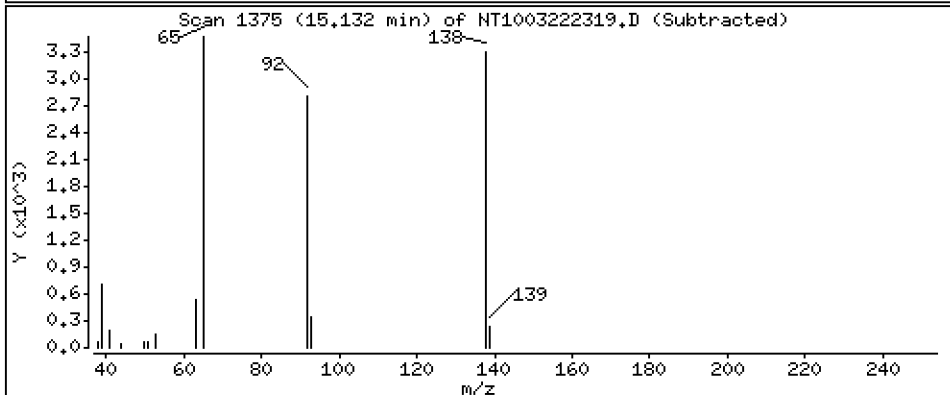
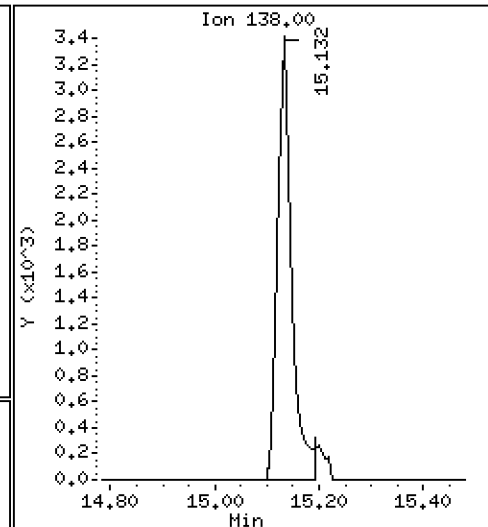
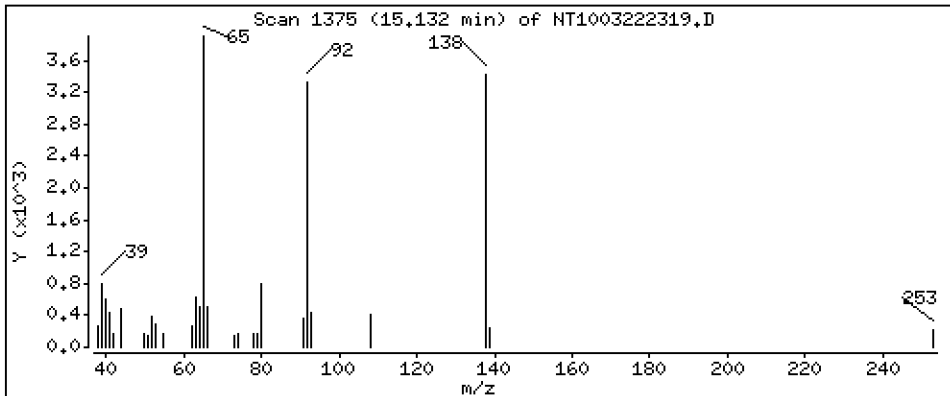
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

43 3-Nitroaniline

Concentration: 0,2954 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

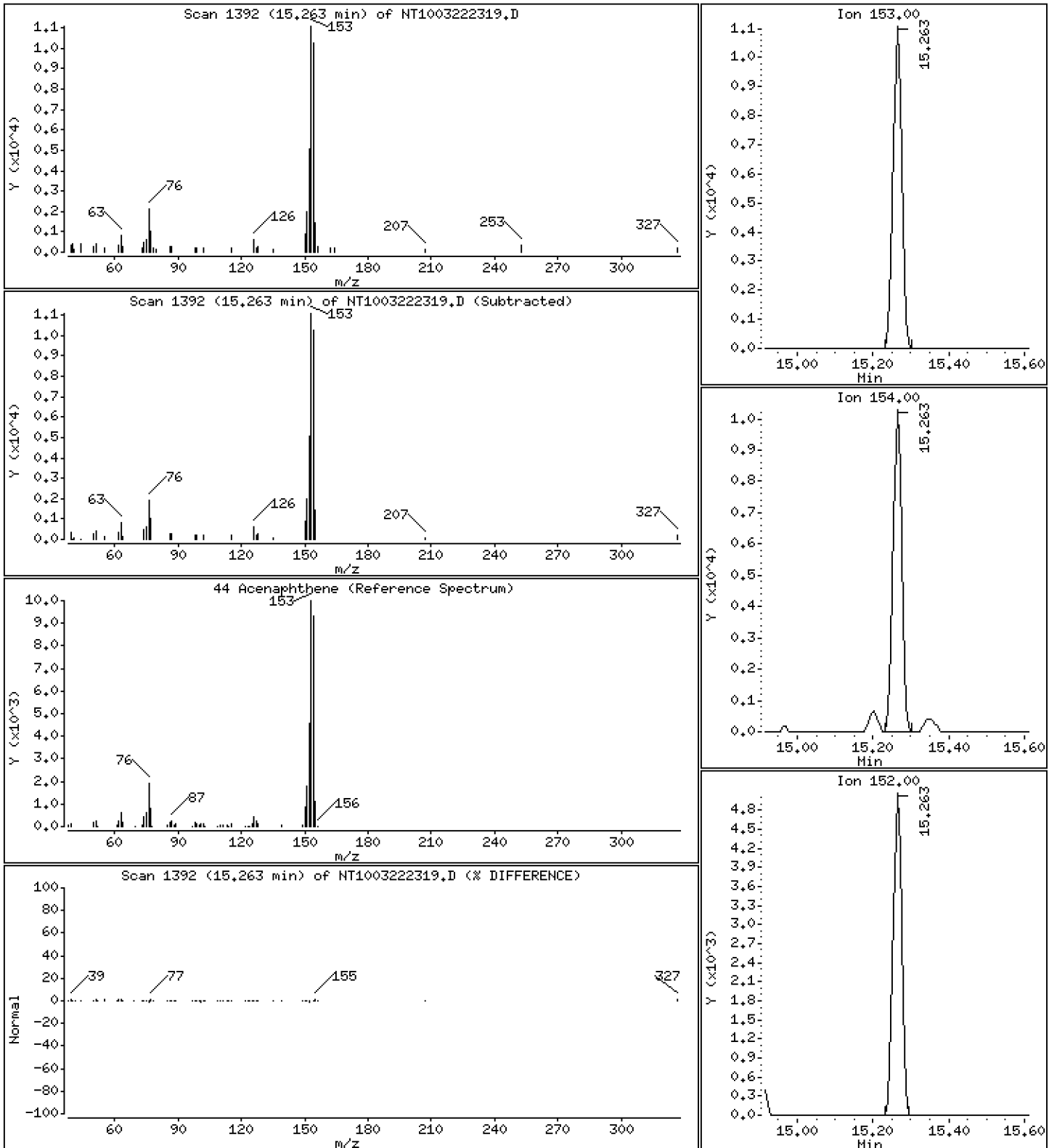
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

44 Acenaphthene

Concentration: 0.2064 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

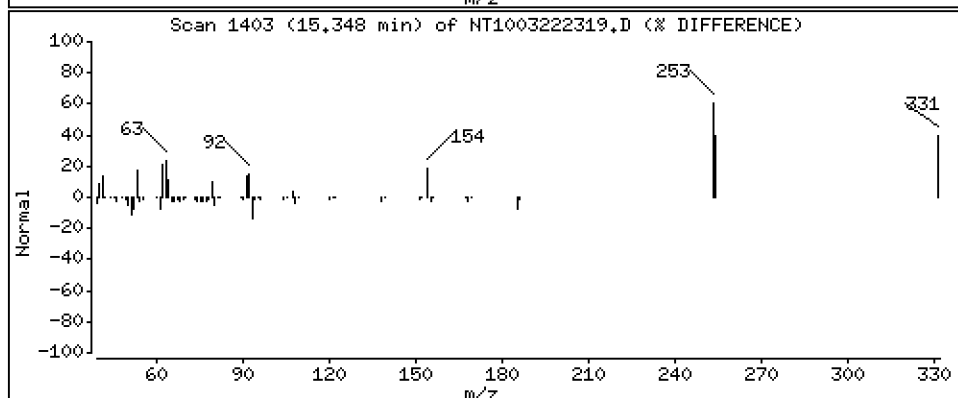
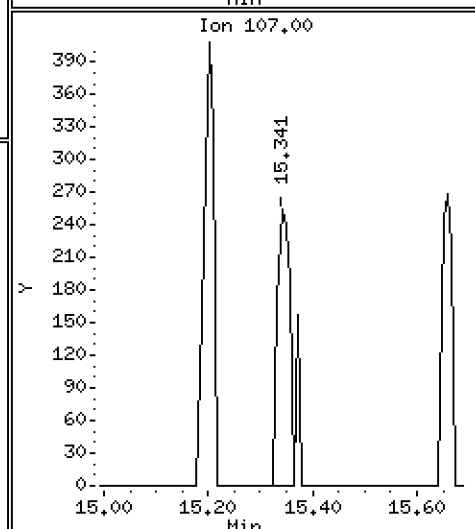
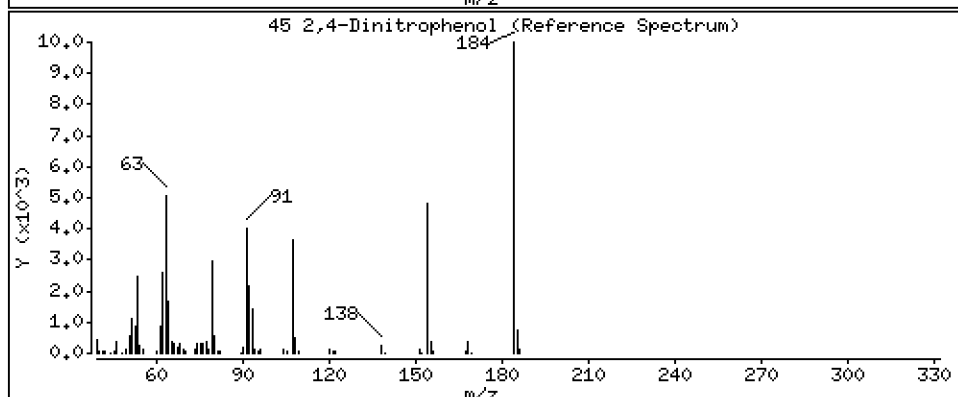
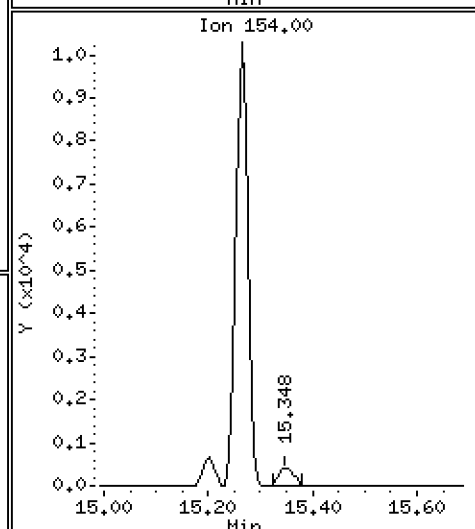
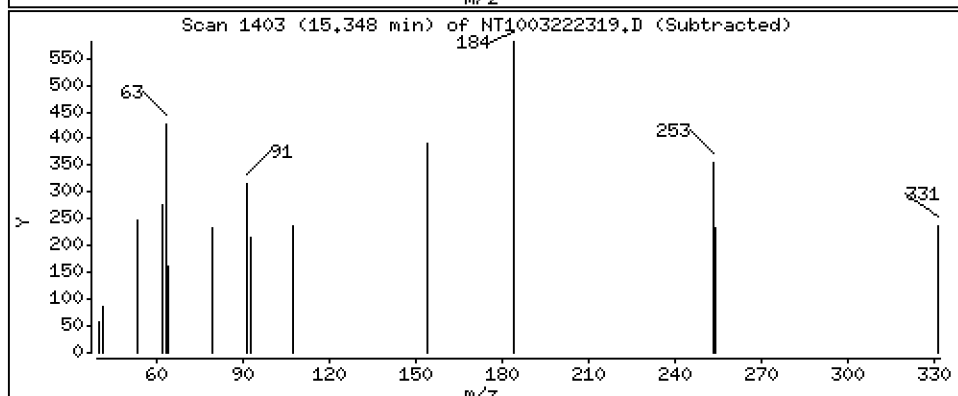
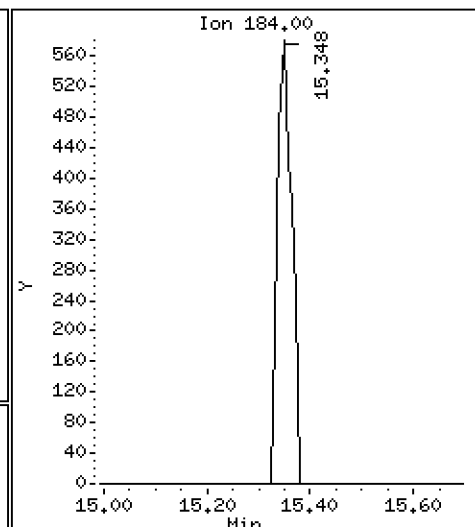
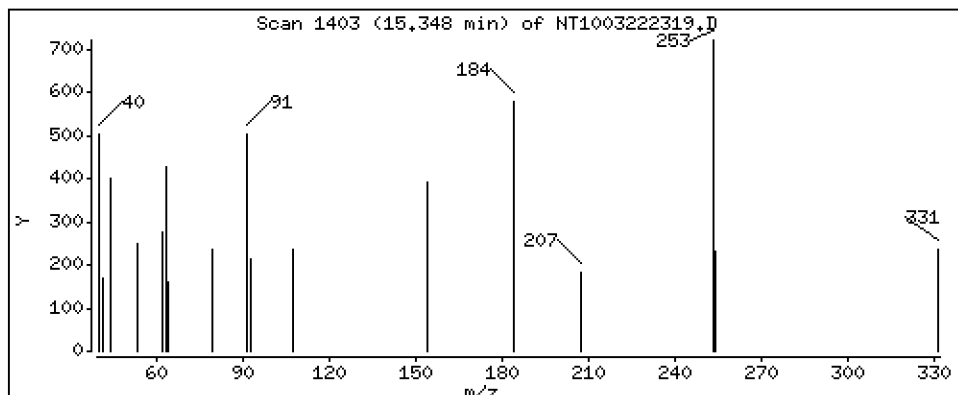
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

45 2,4-Dinitrophenol

Concentration: 0,09523 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

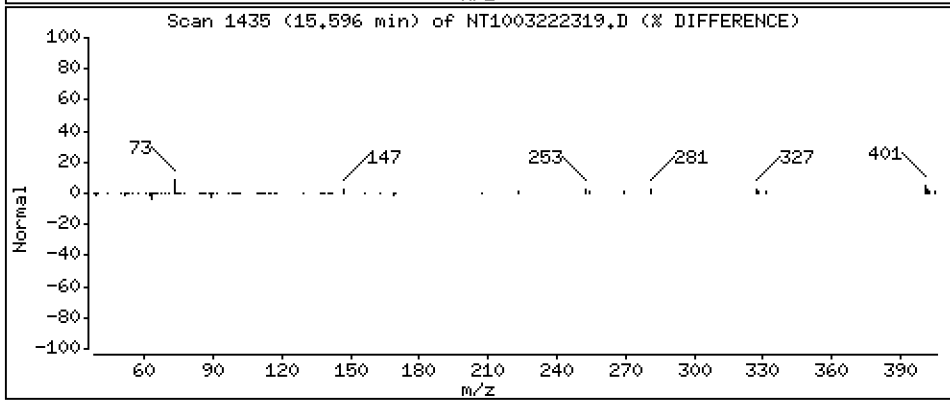
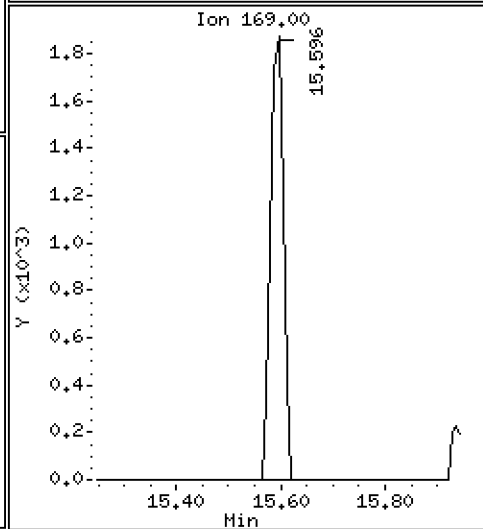
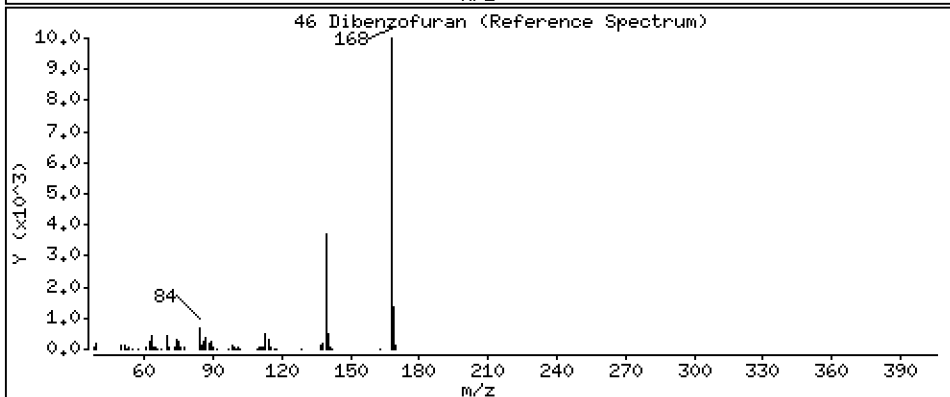
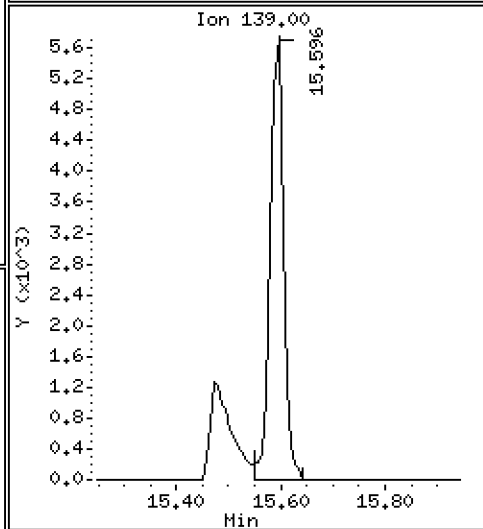
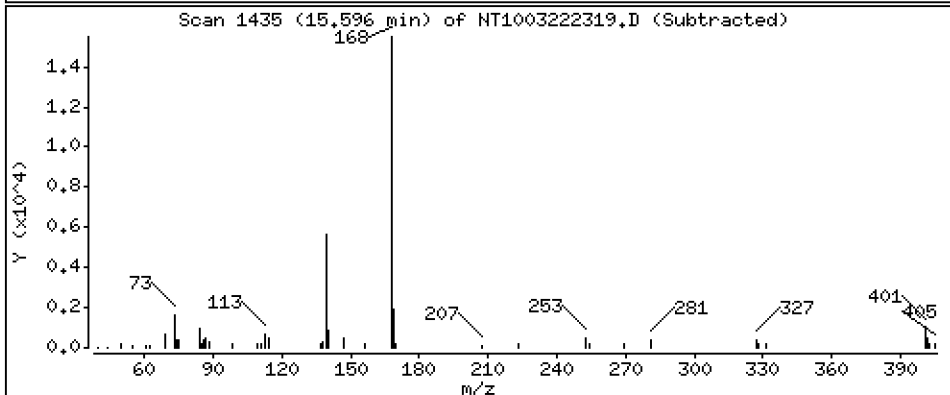
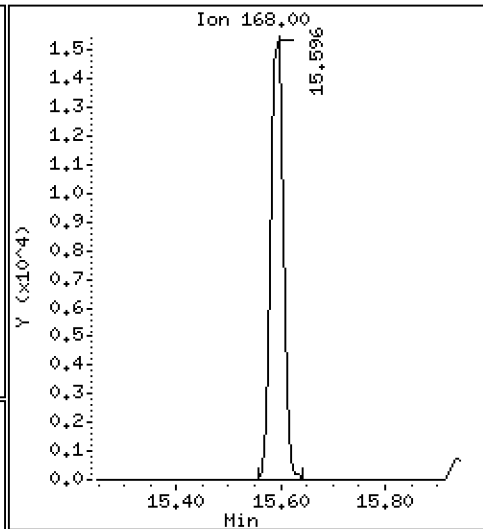
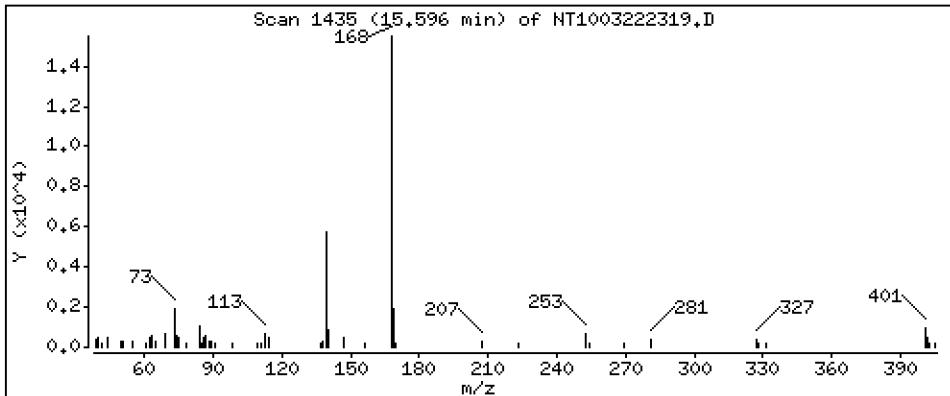
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 0,2045 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

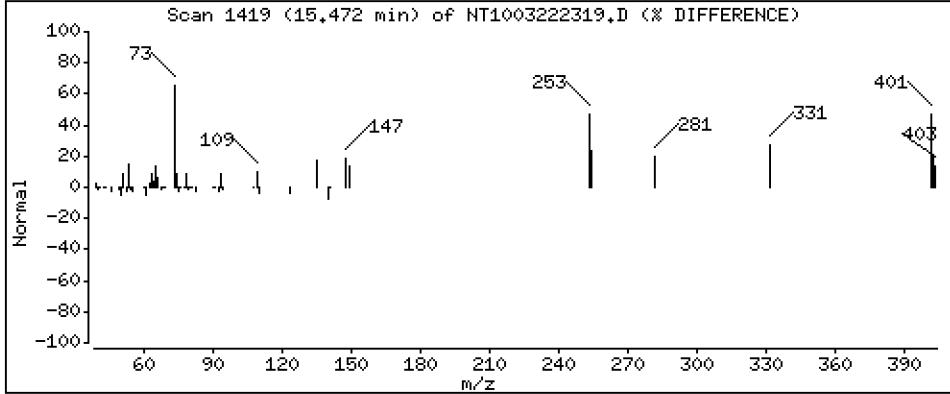
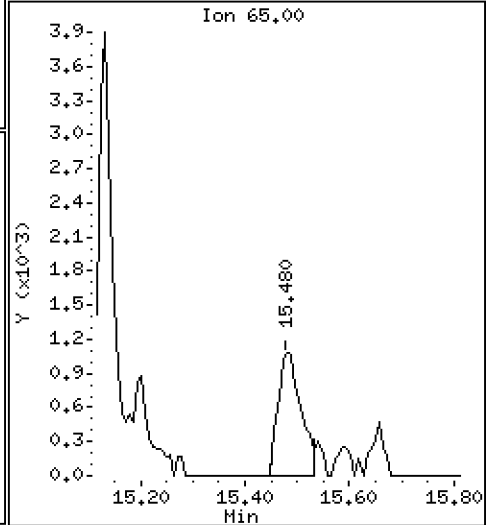
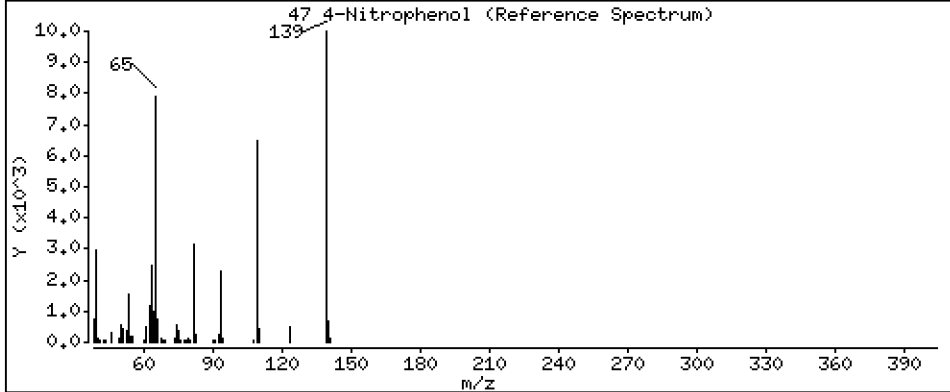
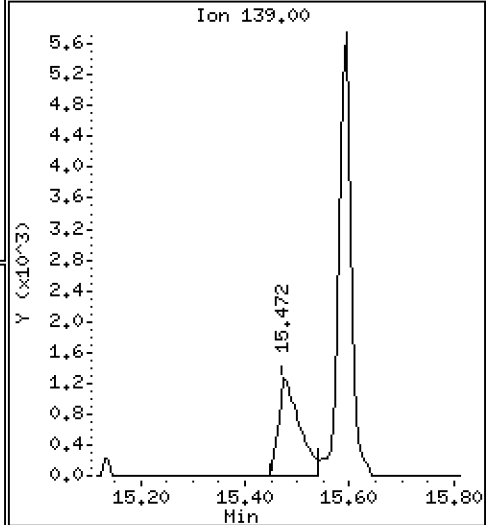
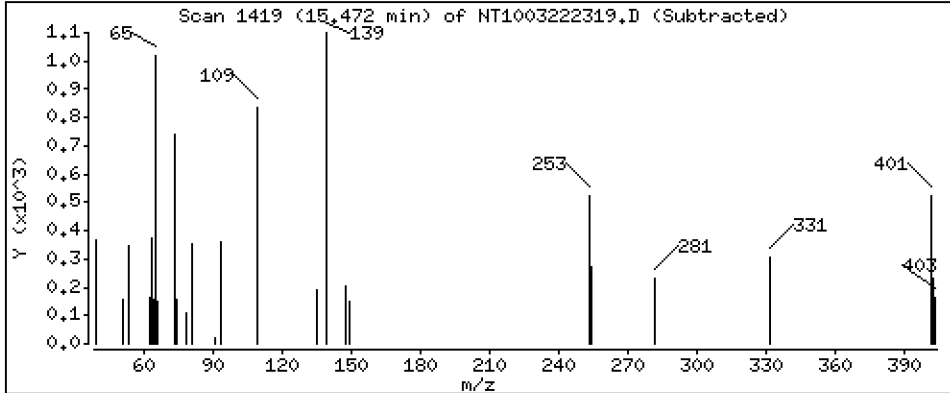
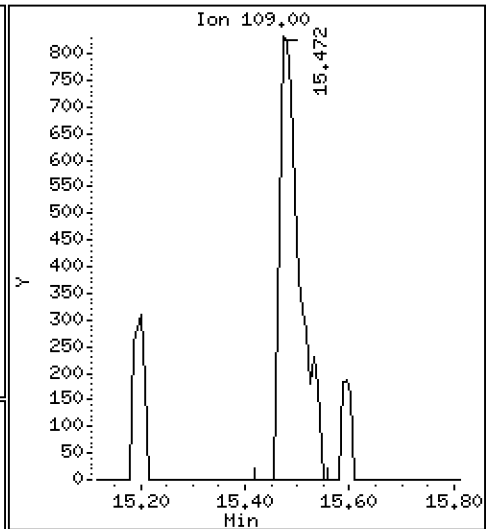
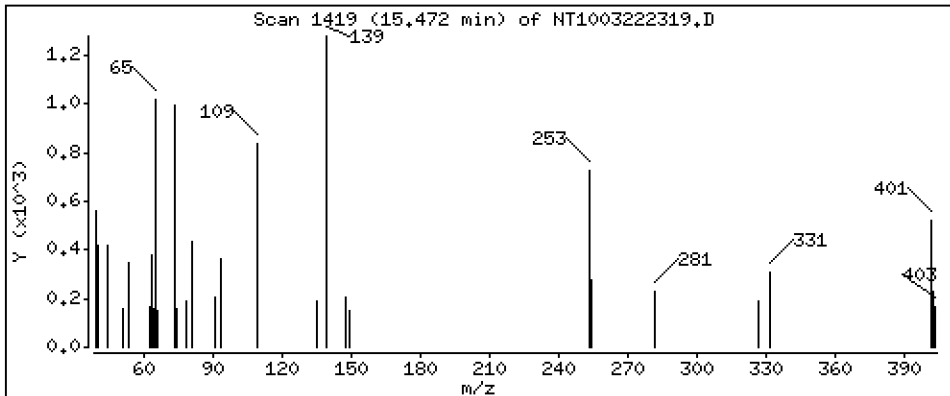
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

47 4-Nitrophenol

Concentration: 0,1763 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

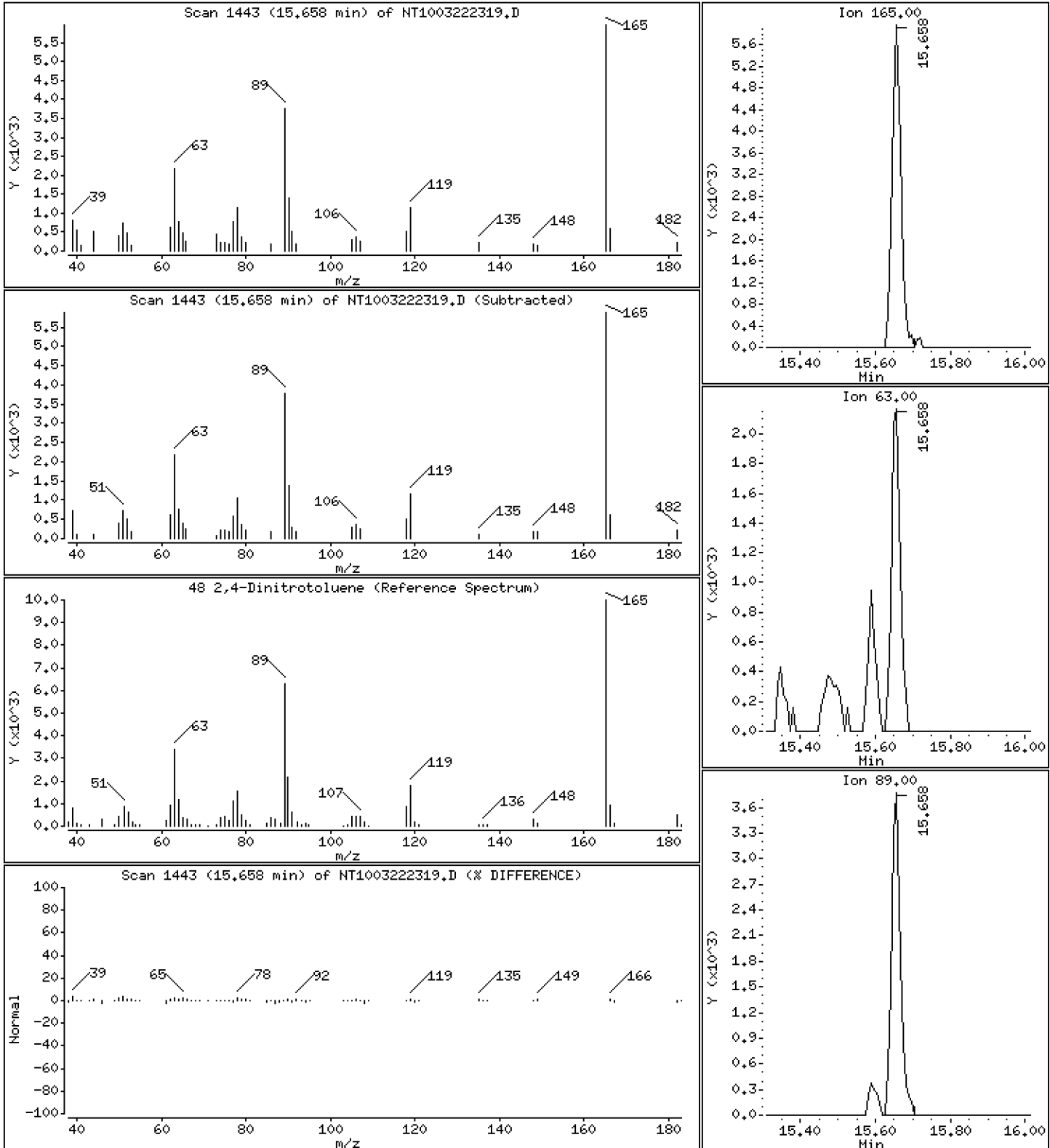
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

48 2,4-Dinitrotoluene

Concentration: 0,3239 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

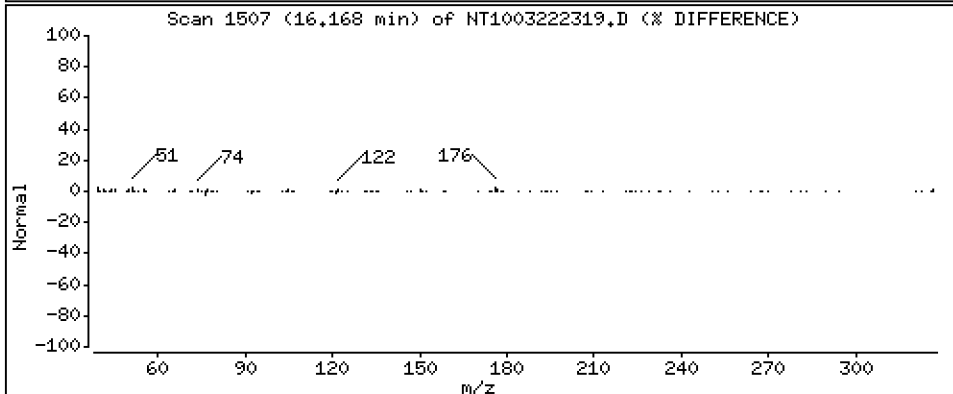
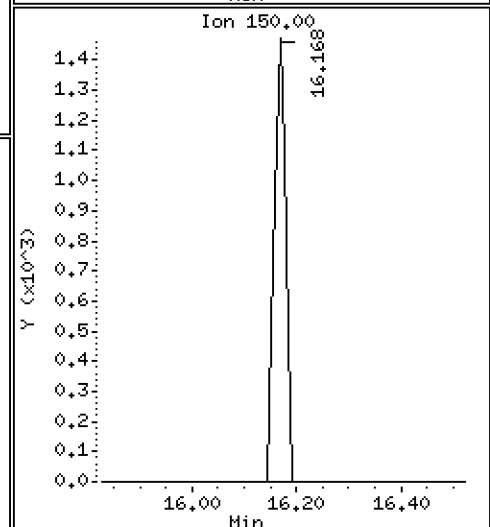
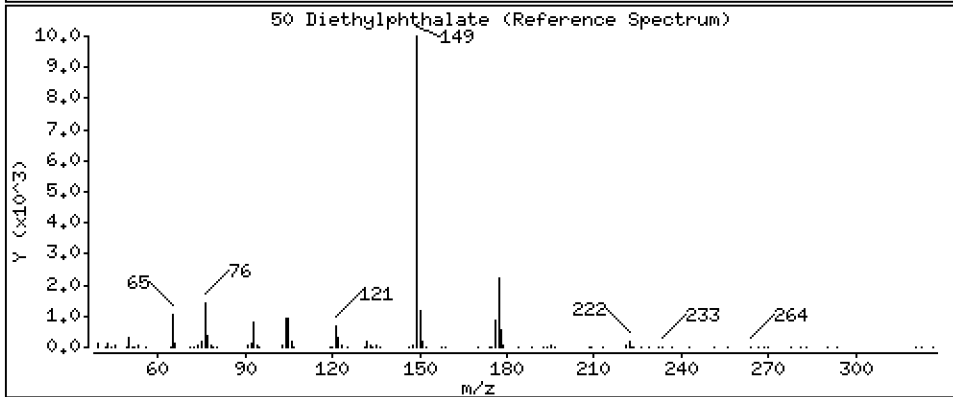
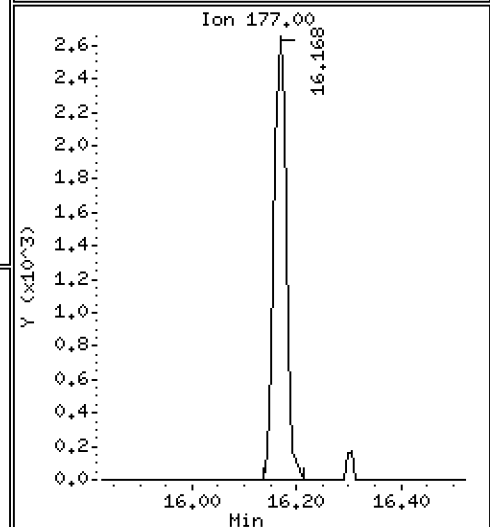
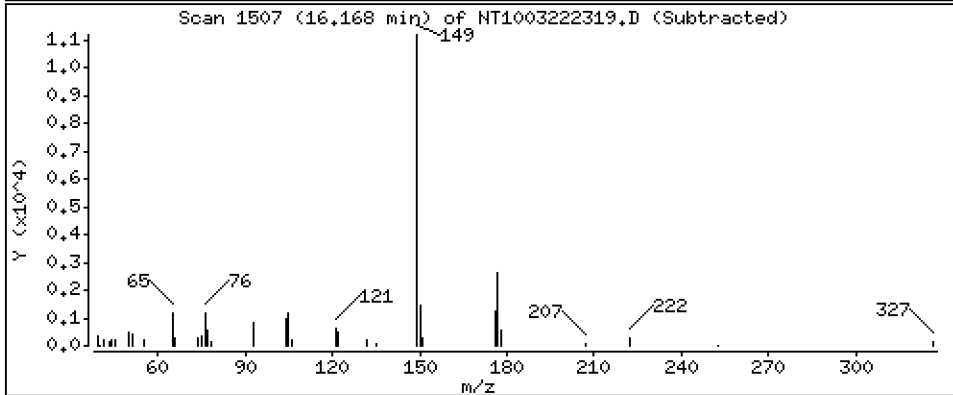
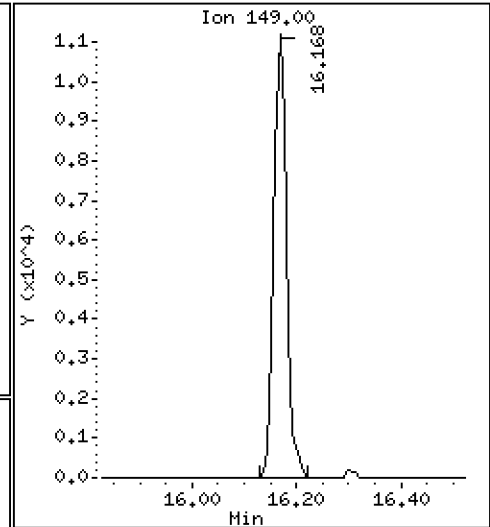
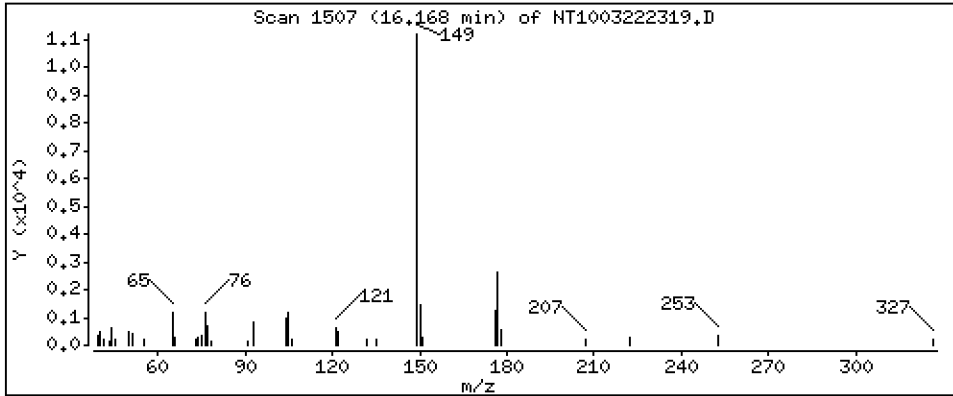
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 0,2506 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

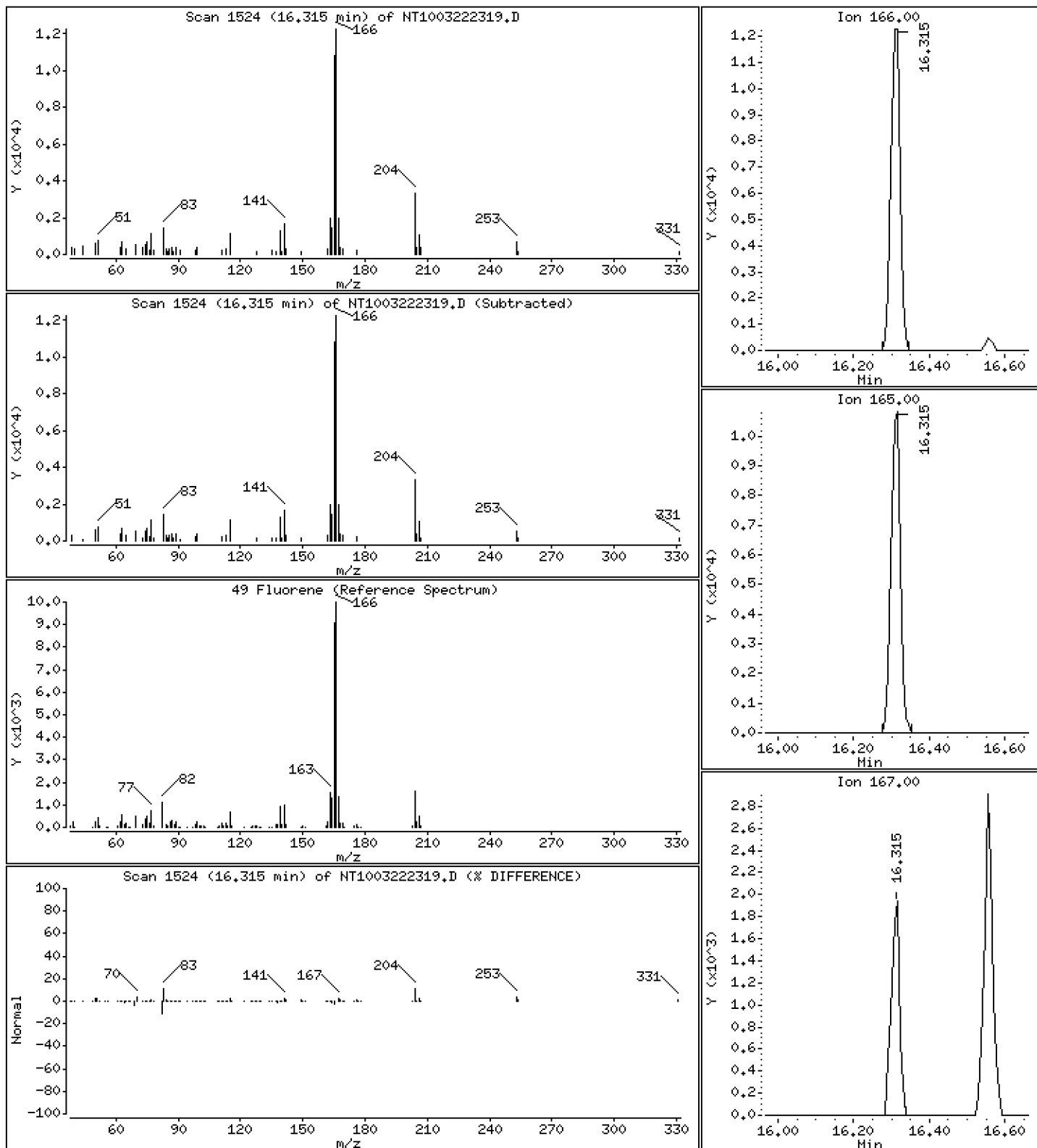
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

49 Fluorene

Concentration: 0.2117 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

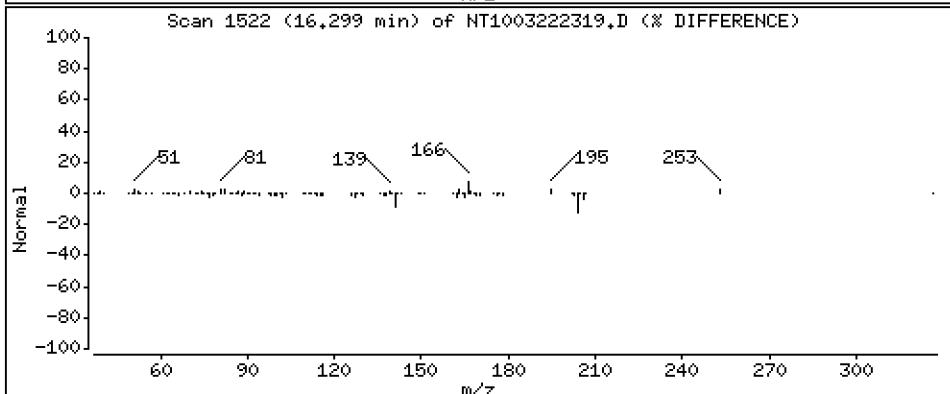
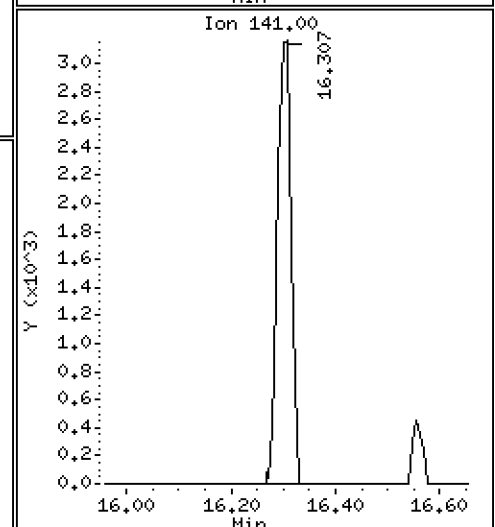
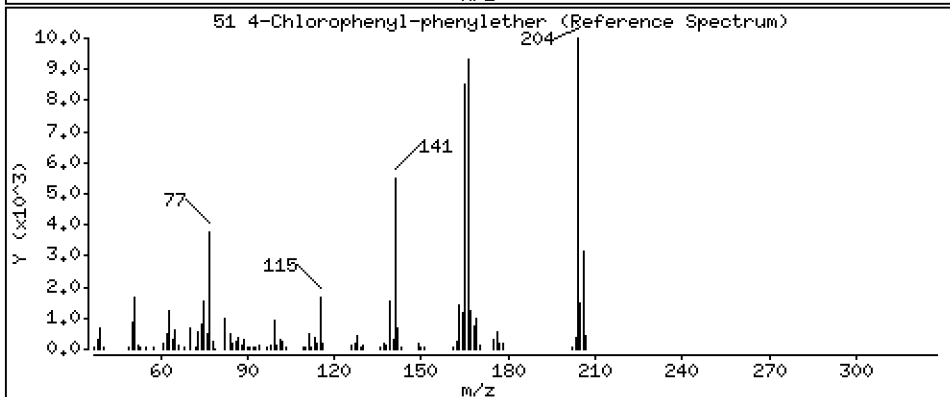
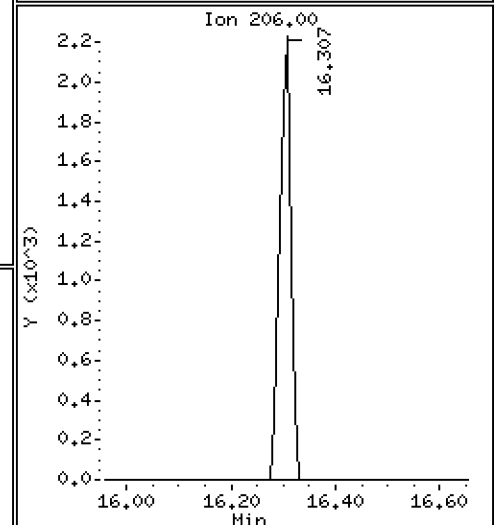
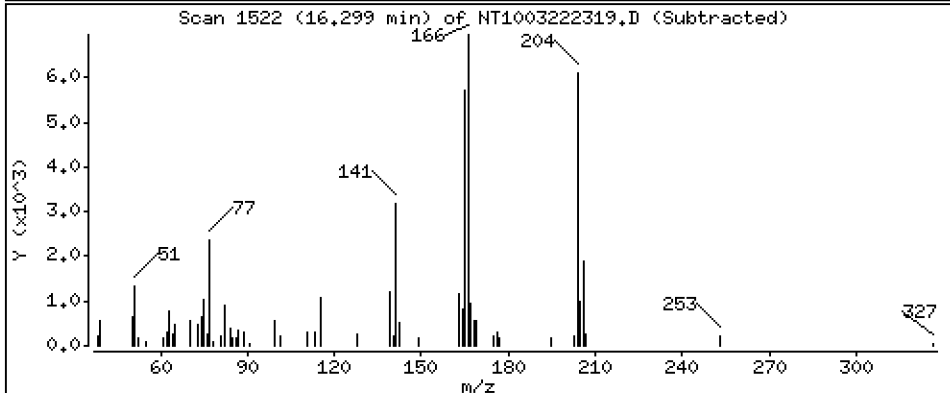
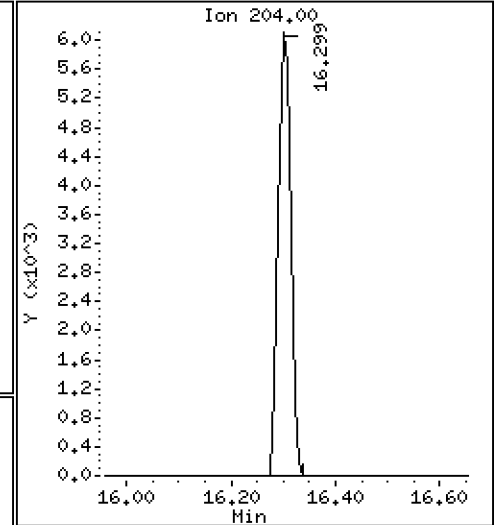
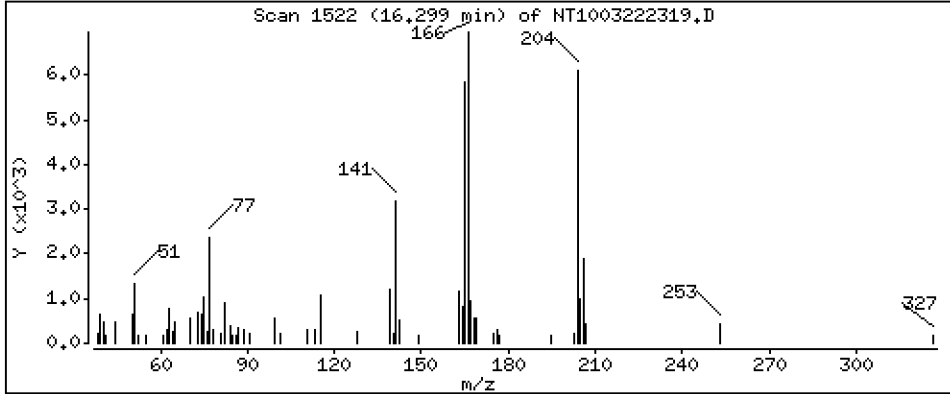
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 0,2194 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

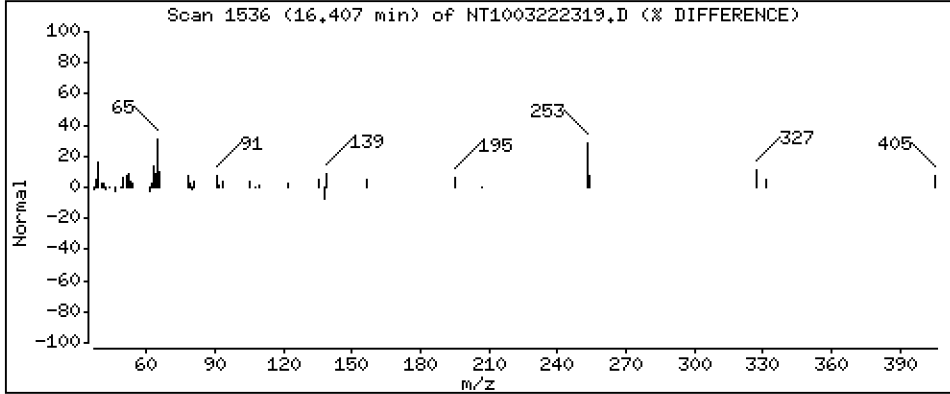
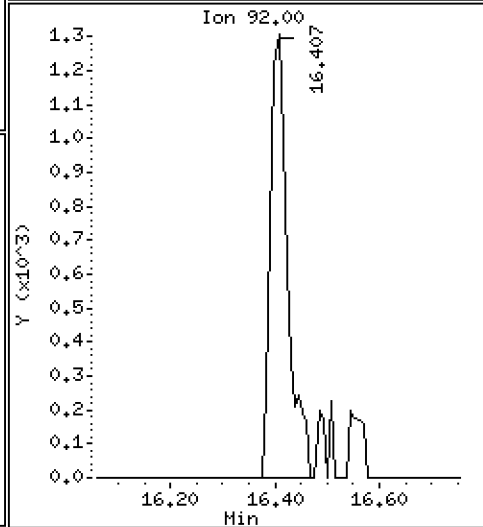
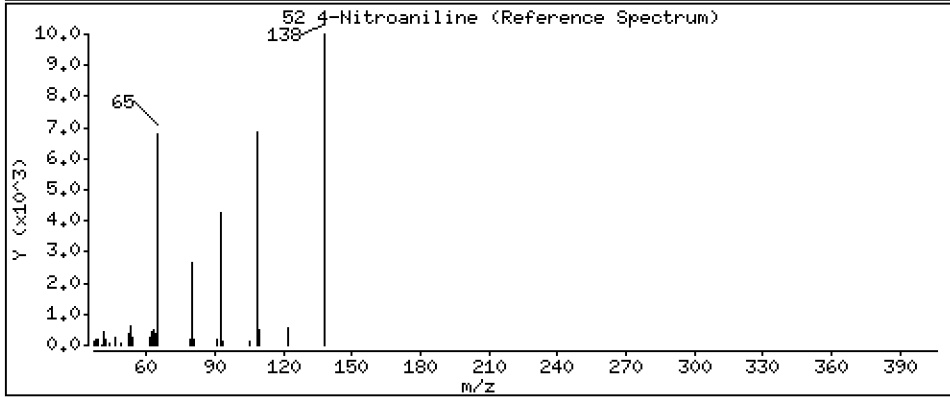
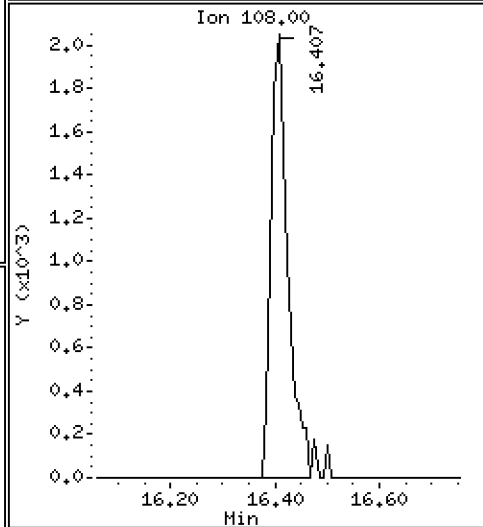
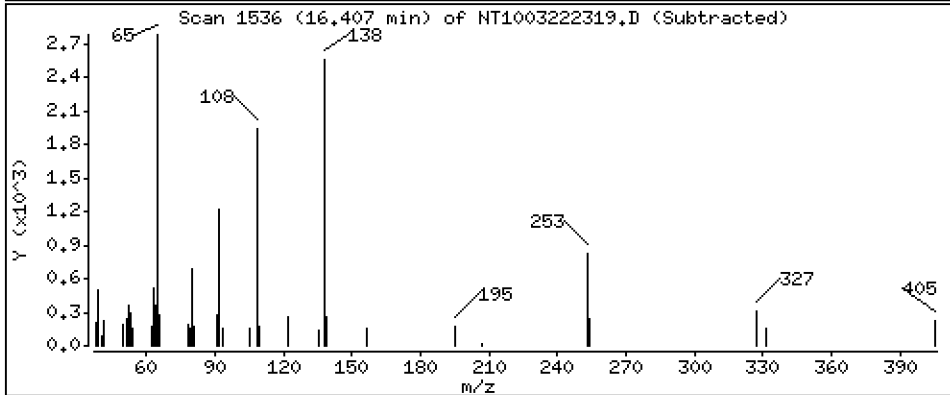
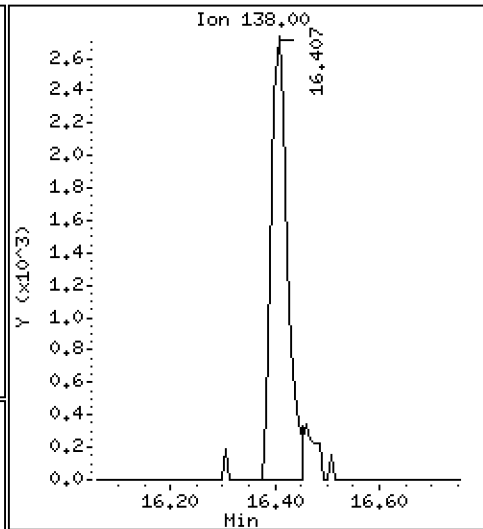
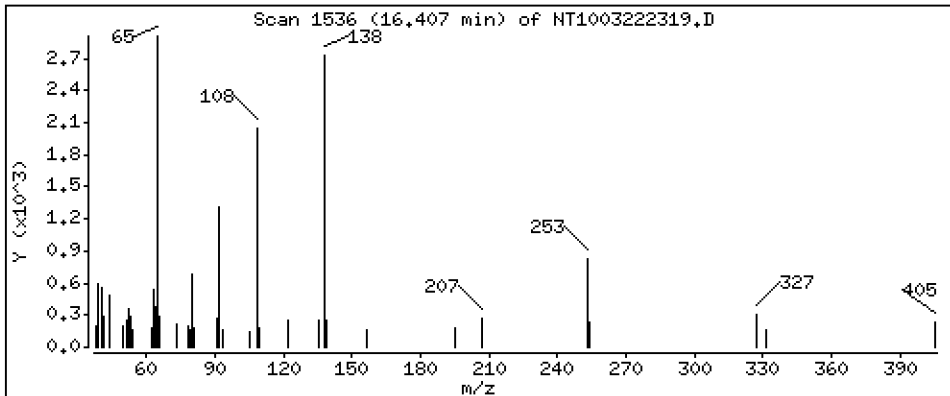
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

52 4-Nitroaniline

Concentration: 0.3071 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

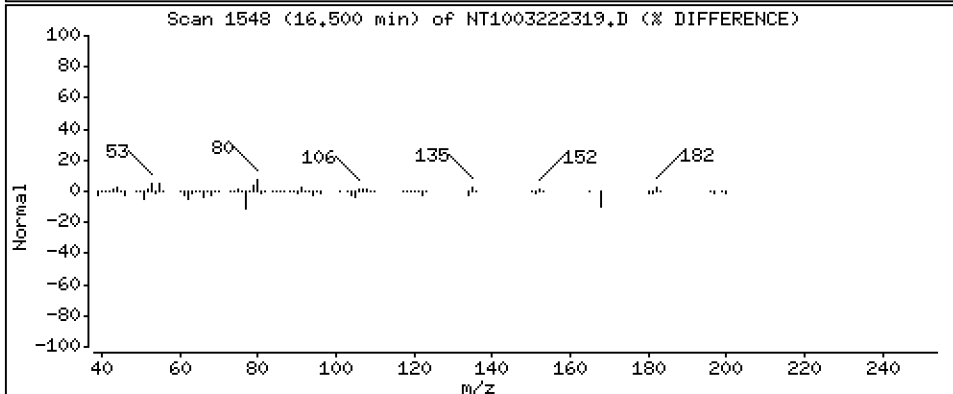
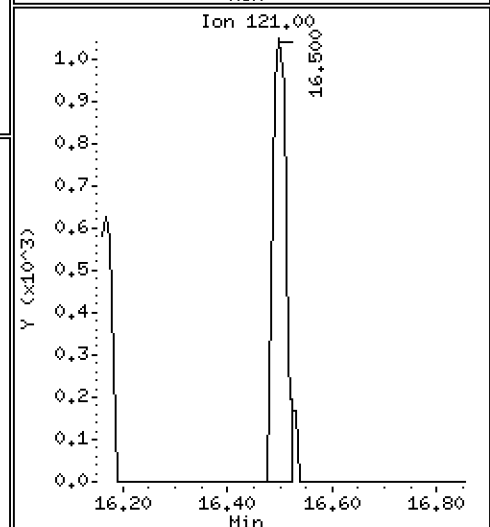
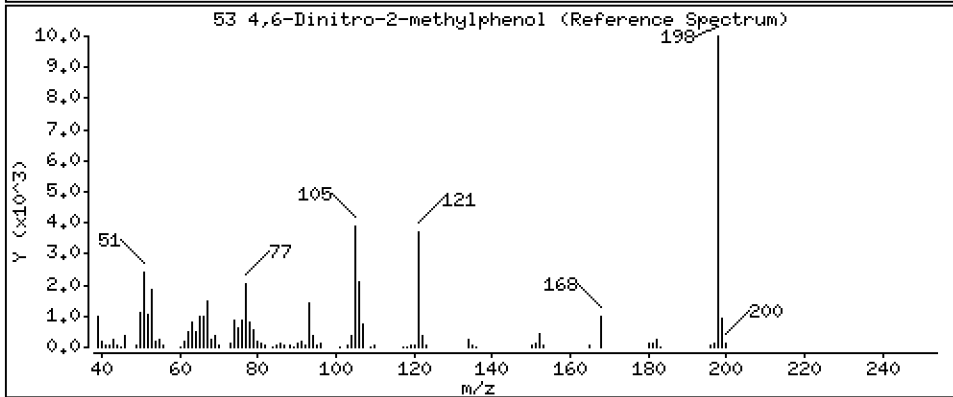
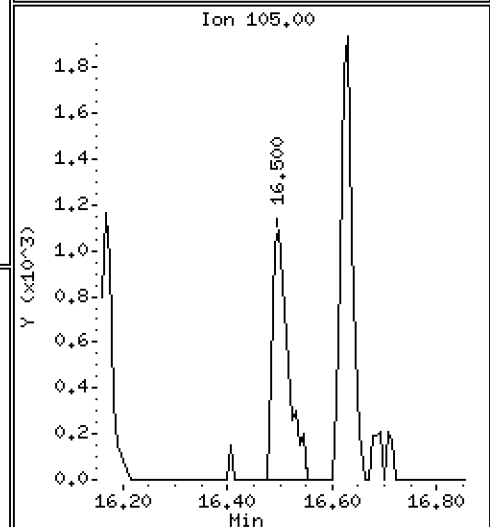
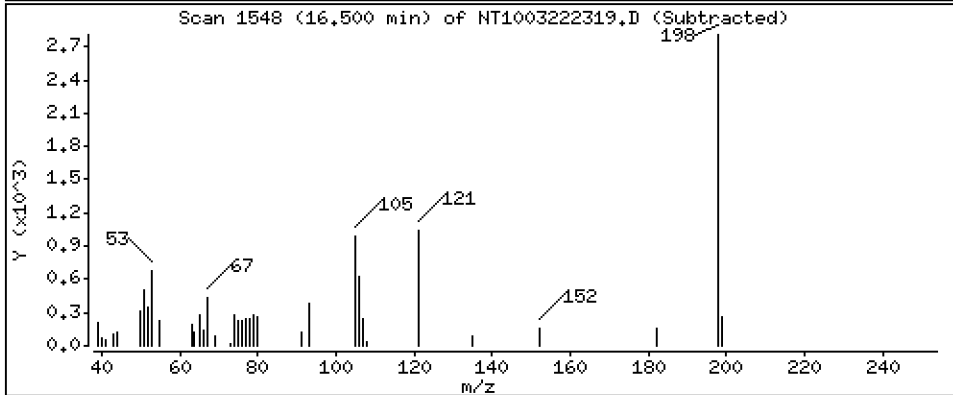
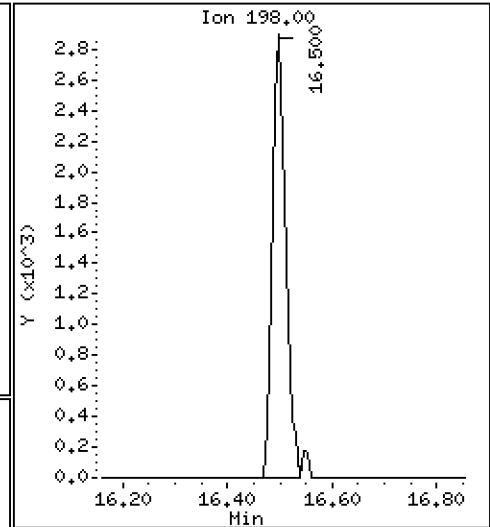
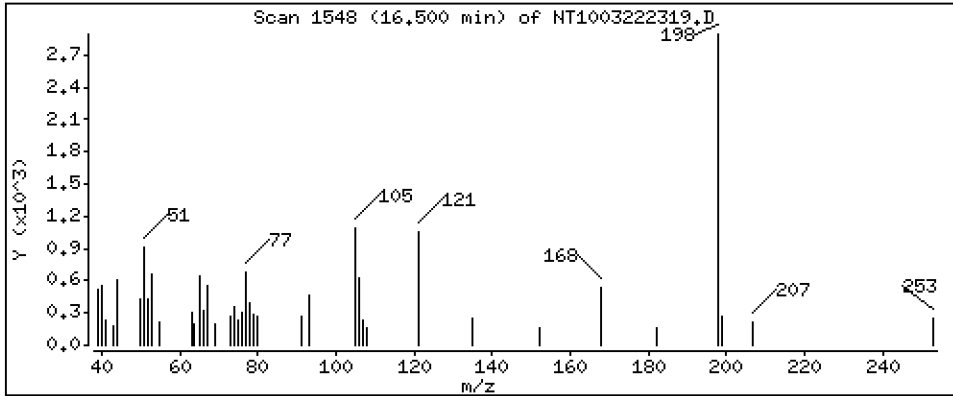
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

53 4,6-Dinitro-2-methylphenol

Concentration: 0,3306 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

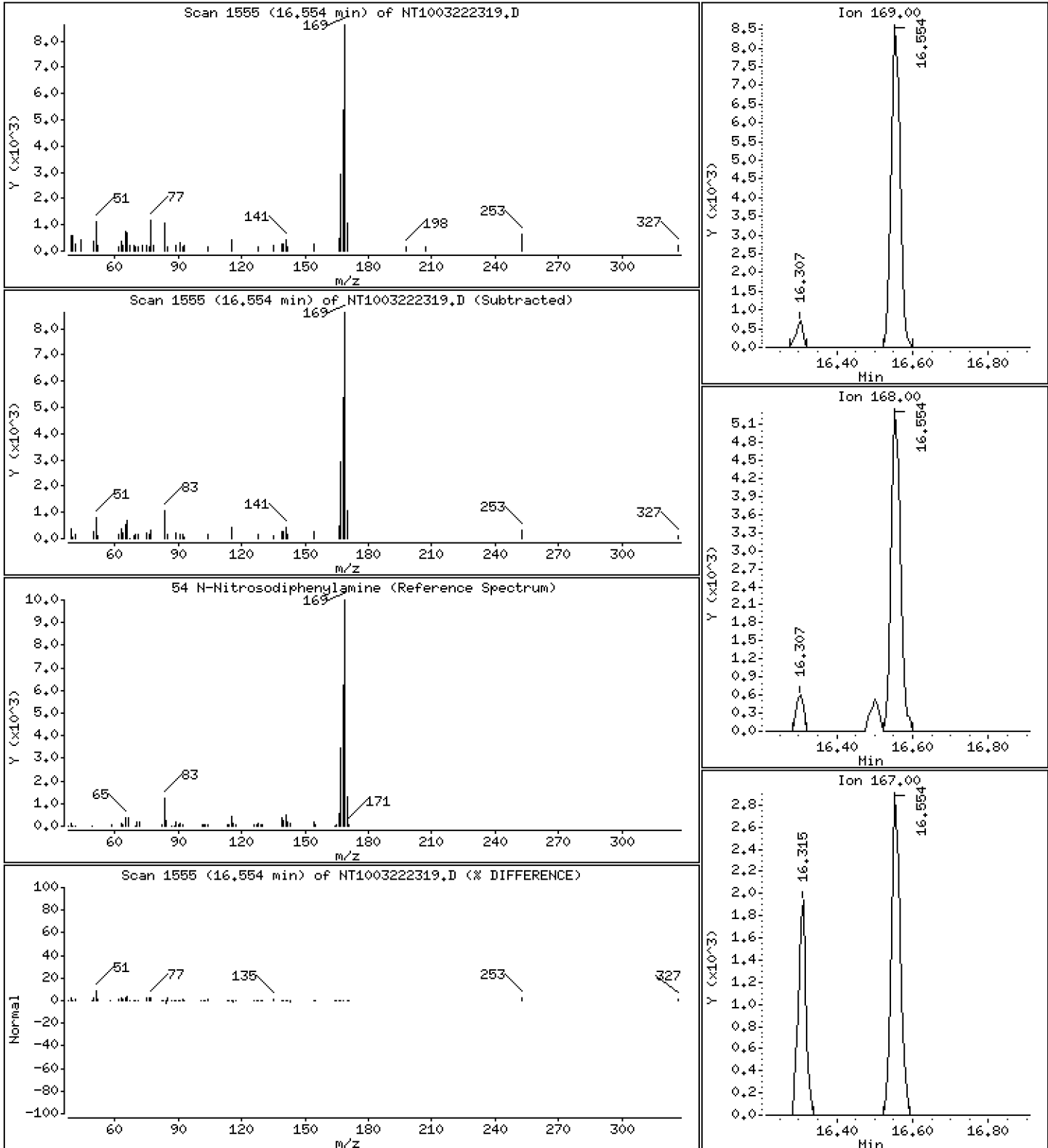
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

54 N-Nitrosodiphenylamine

Concentration: 0.2033 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

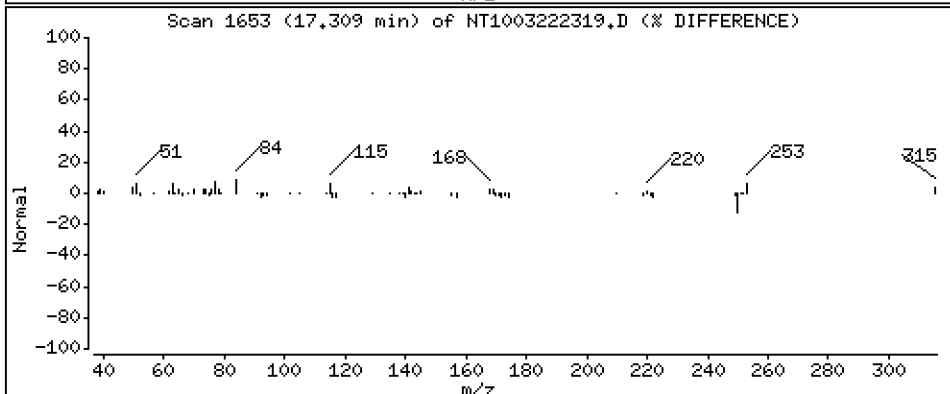
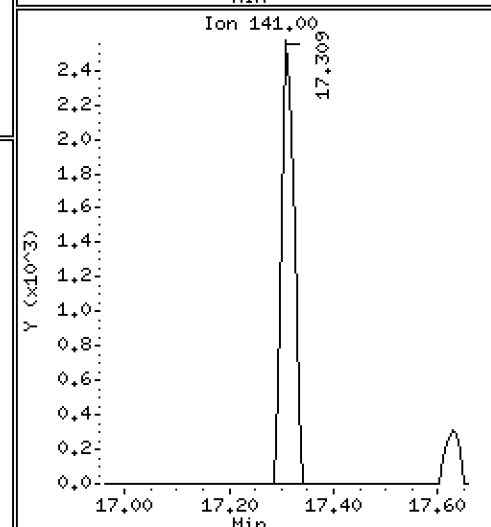
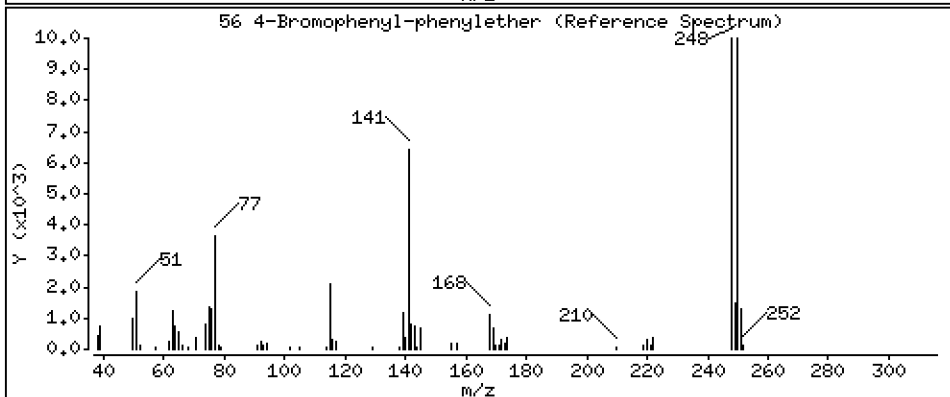
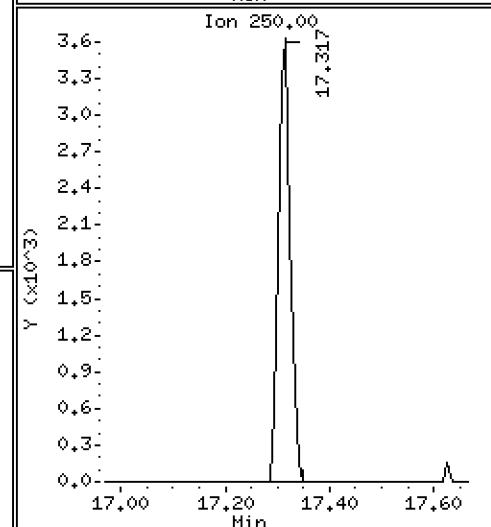
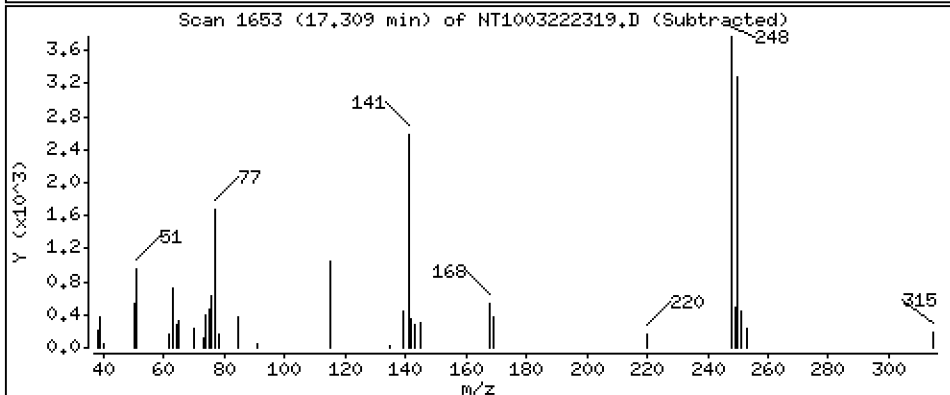
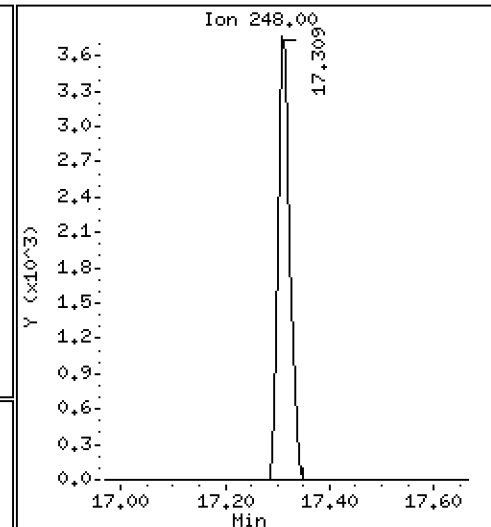
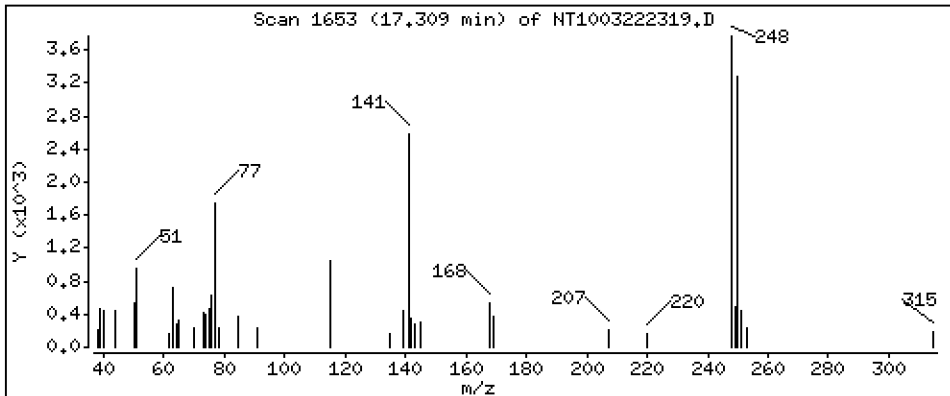
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 0,2181 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

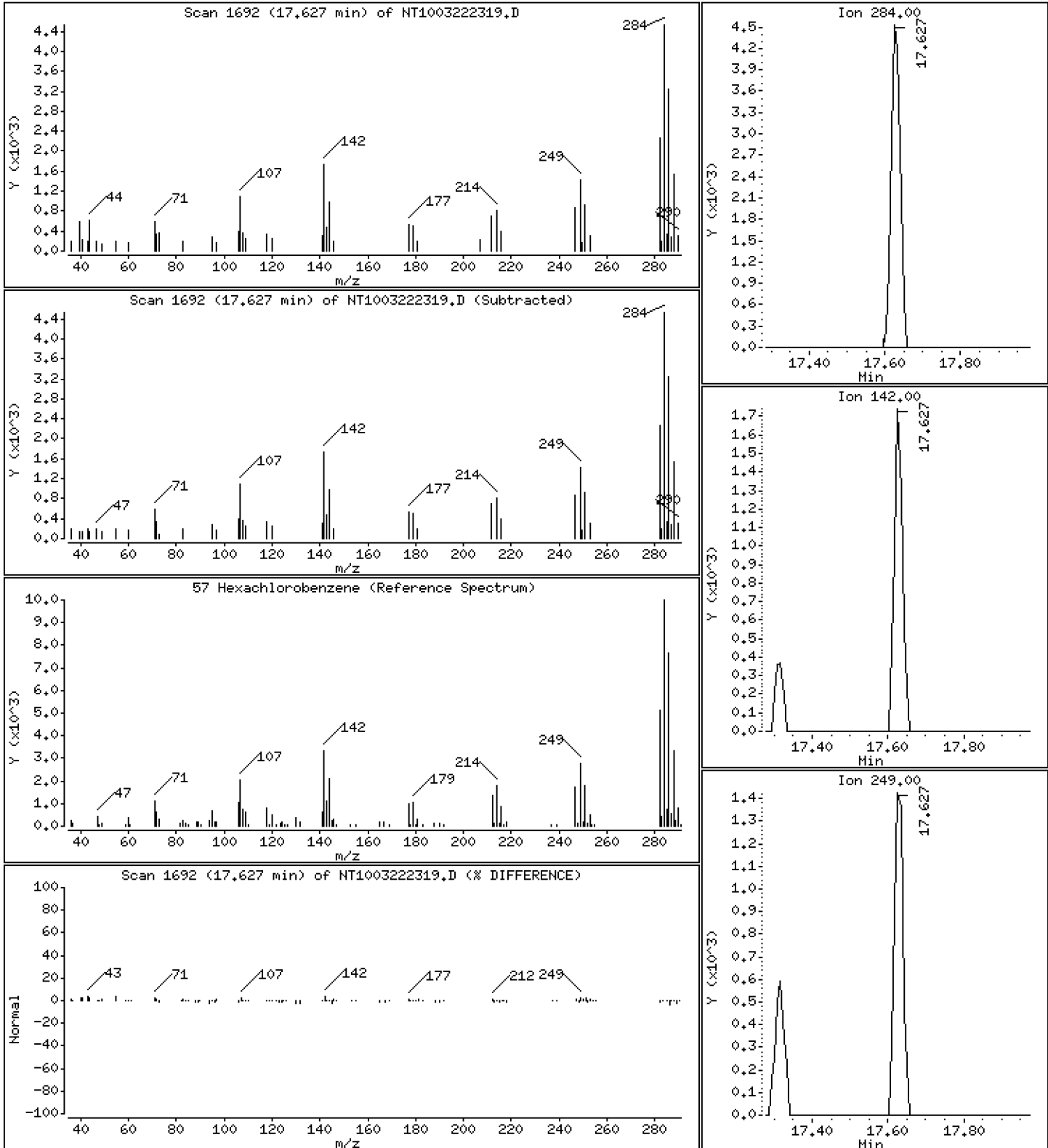
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

57 Hexachlorobenzene

Concentration: 0,2574 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

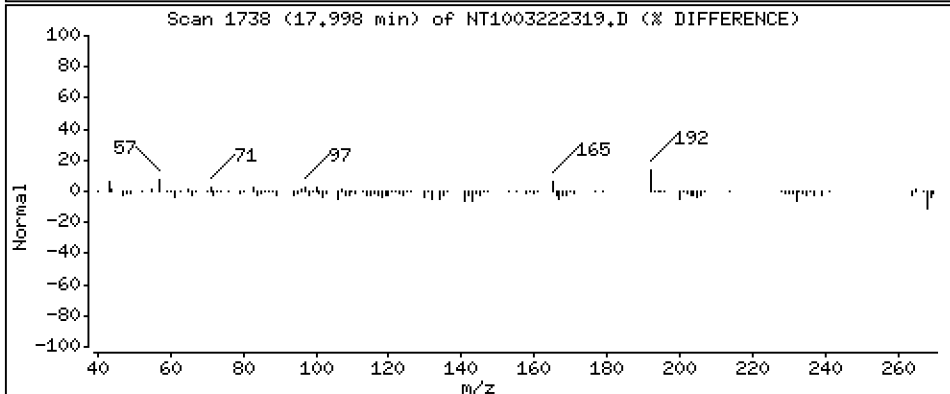
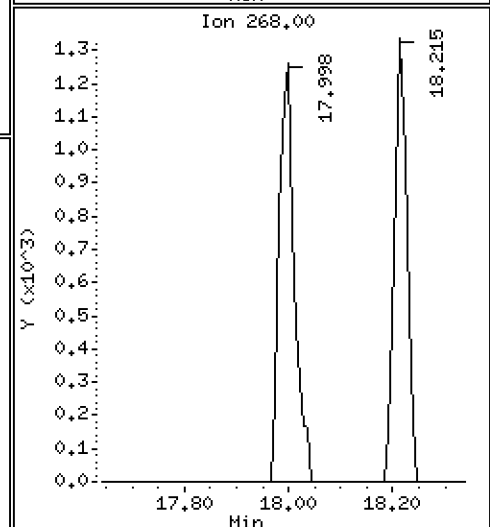
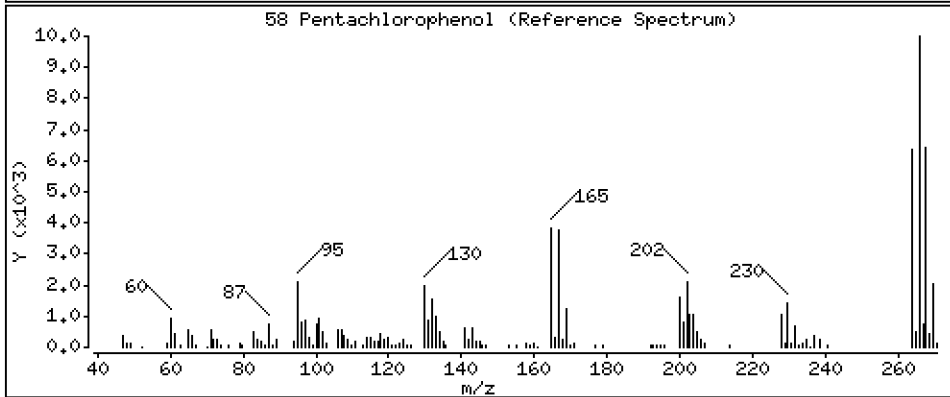
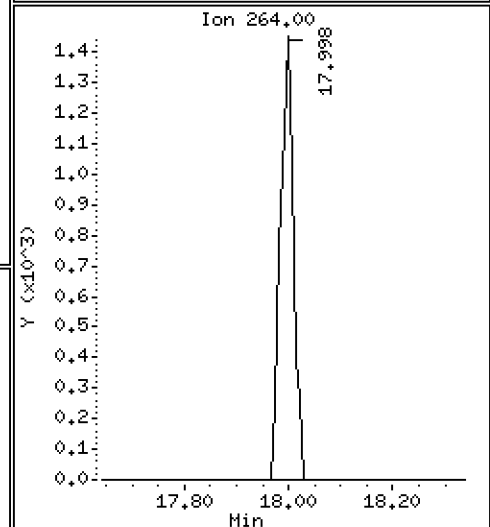
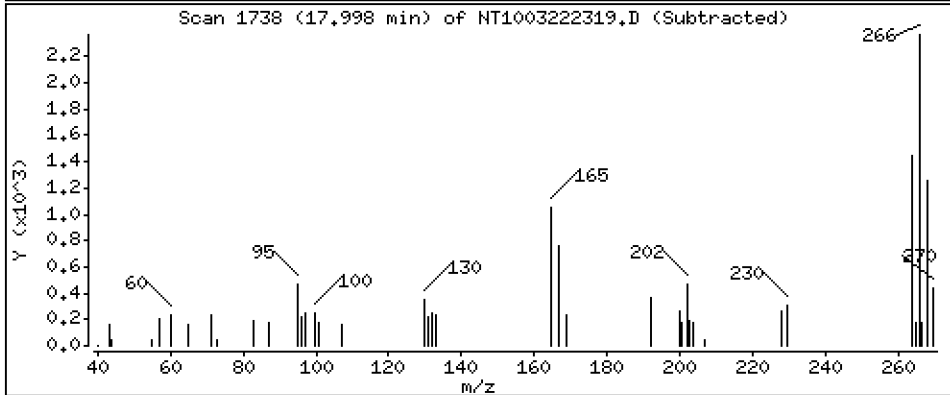
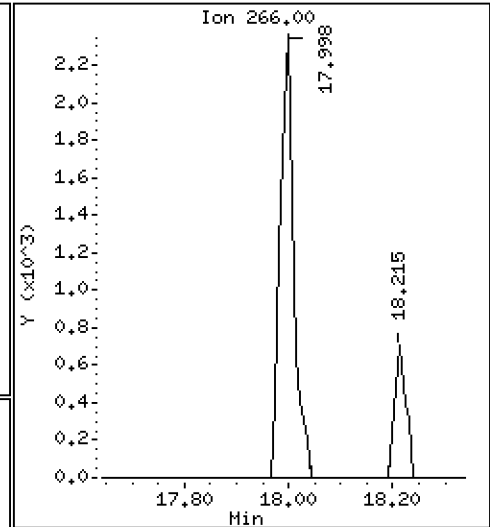
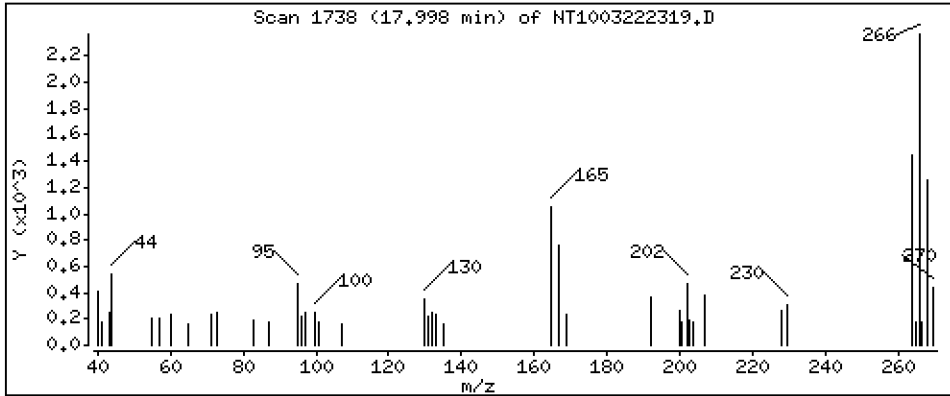
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 0,2485 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

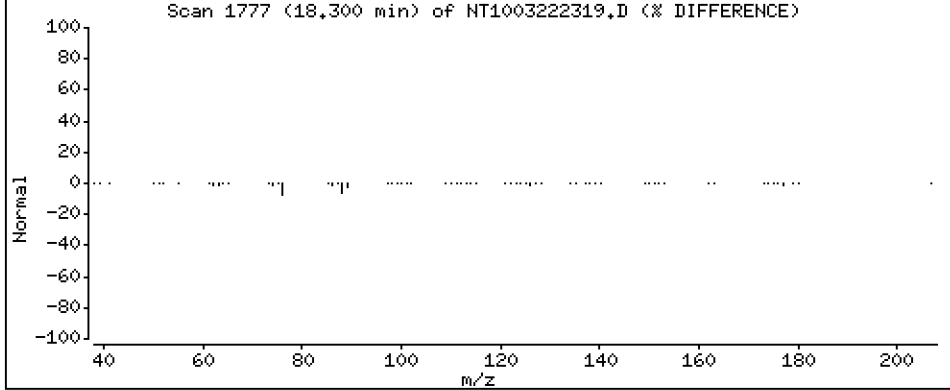
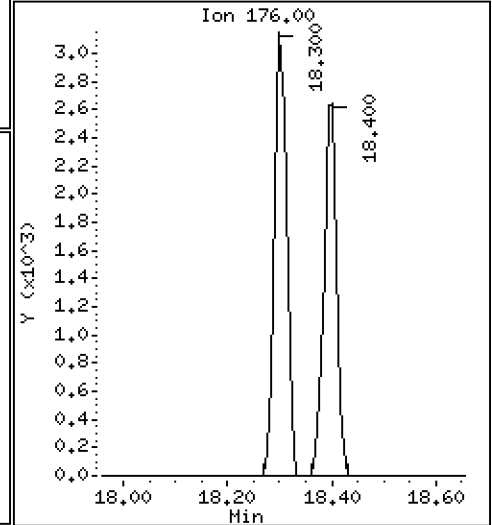
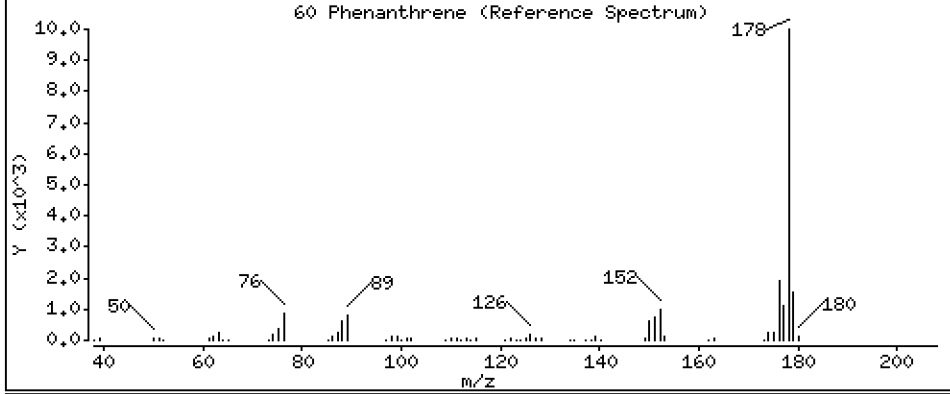
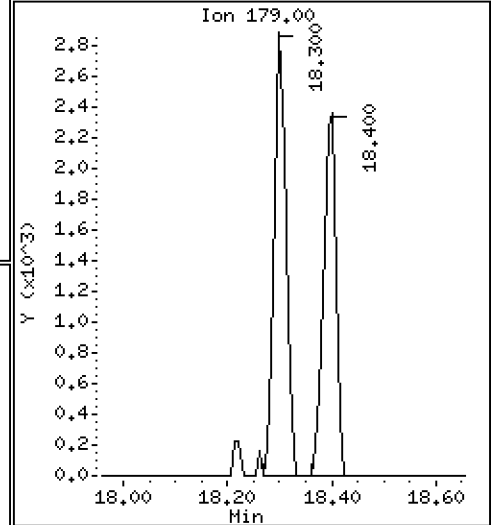
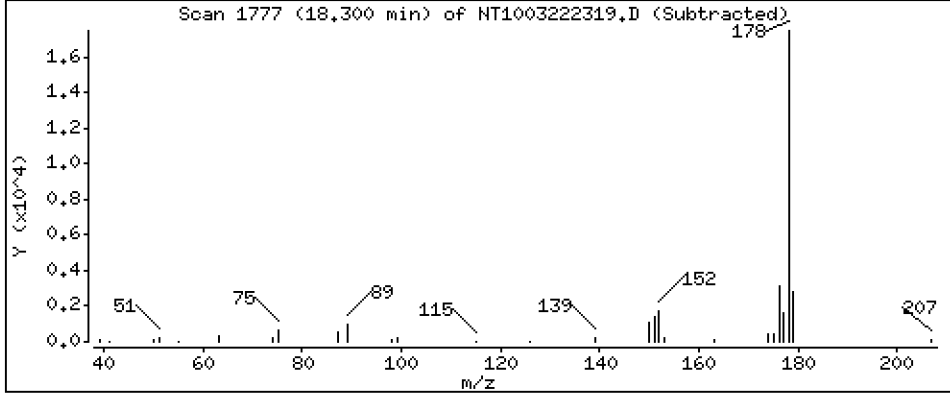
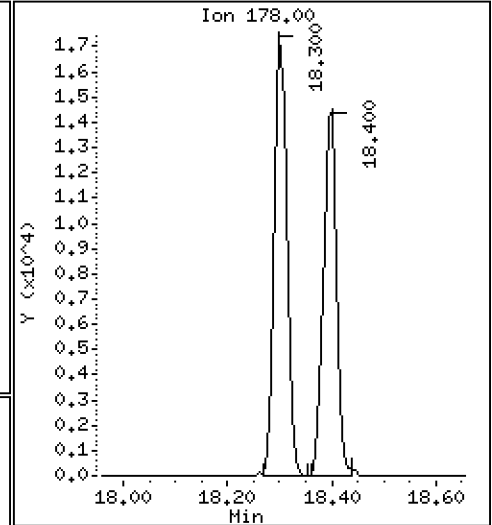
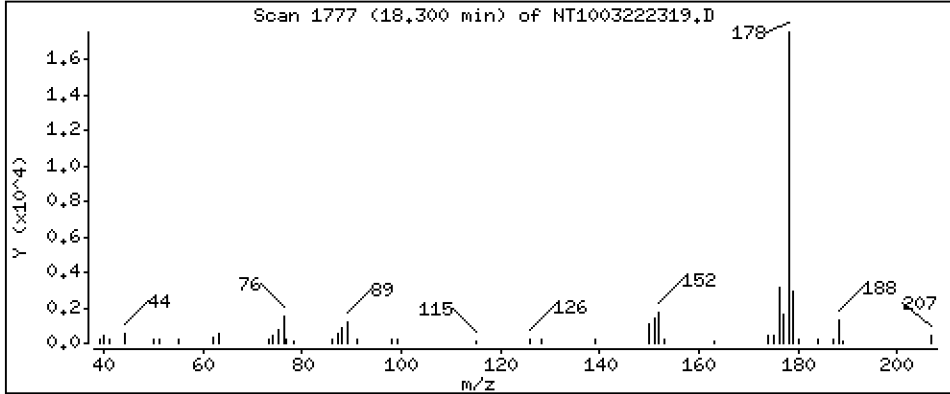
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 0,2096 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

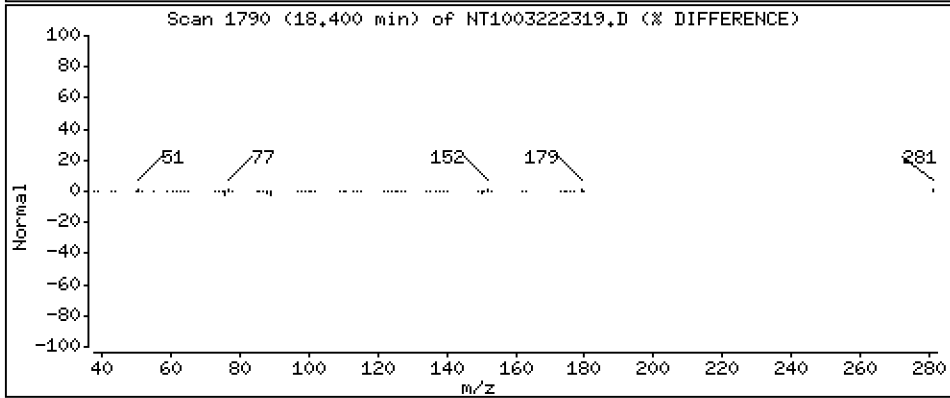
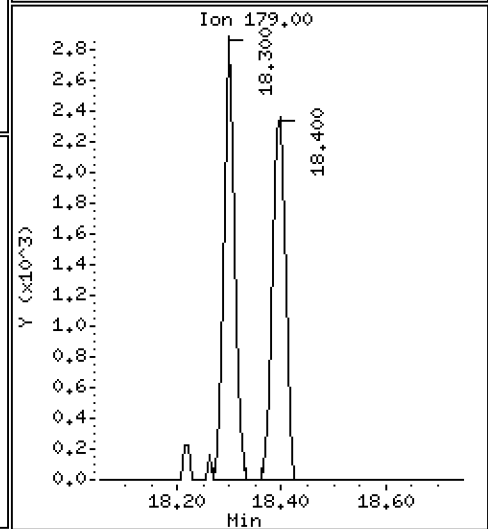
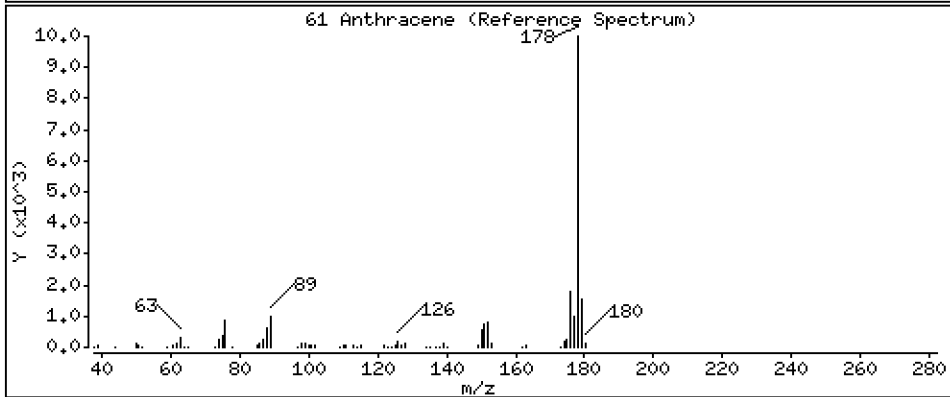
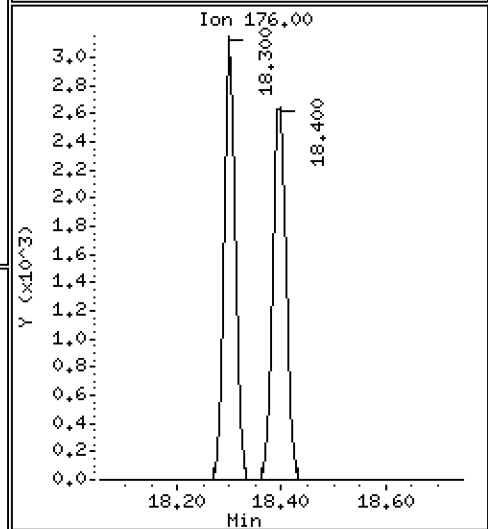
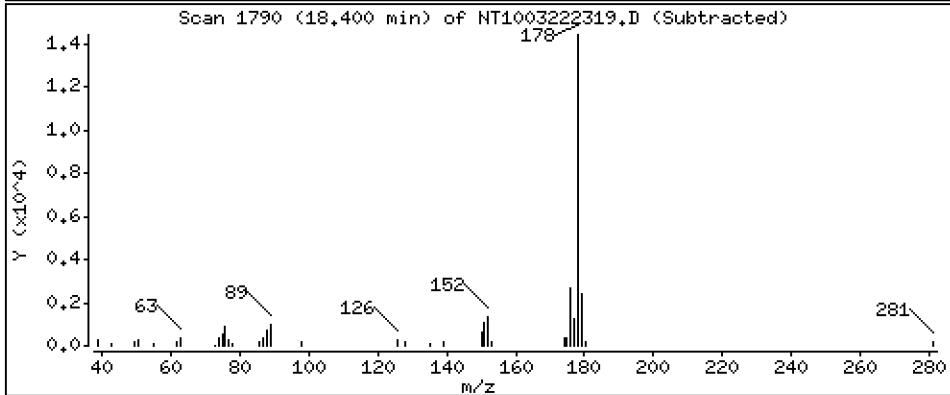
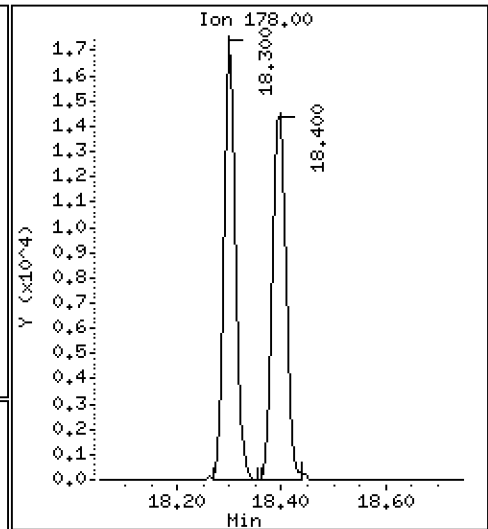
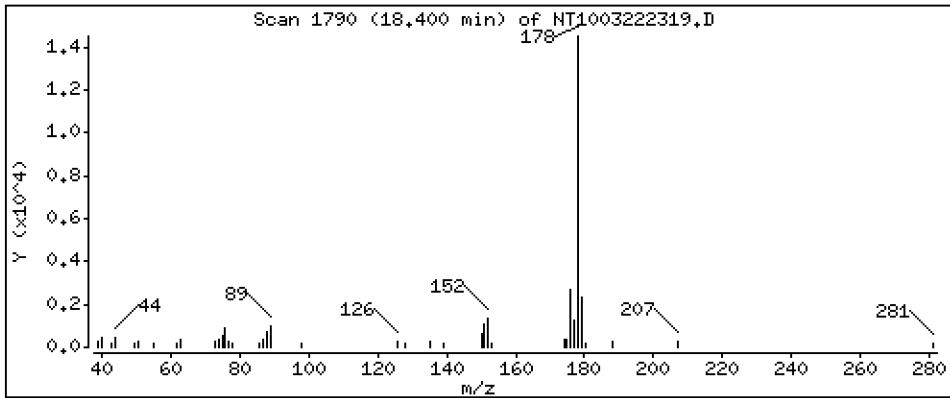
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 0,2007 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

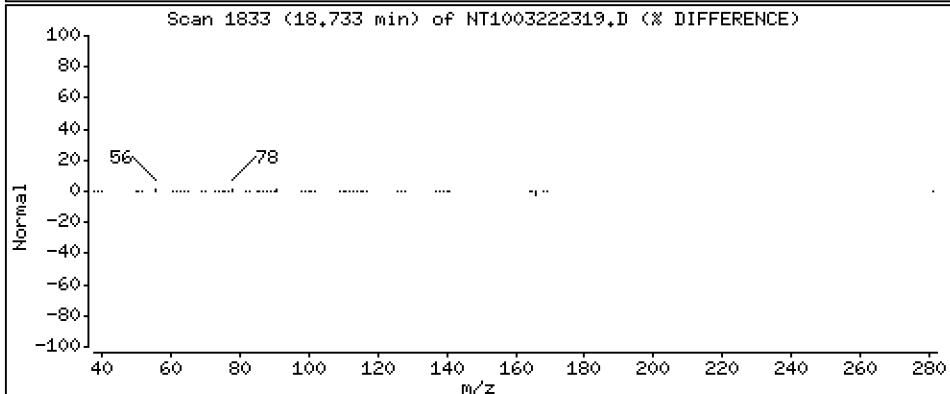
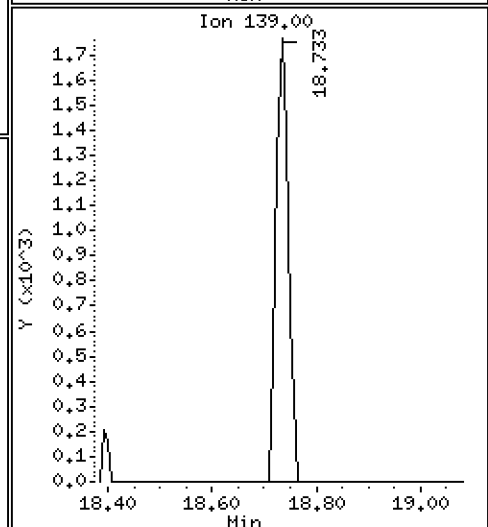
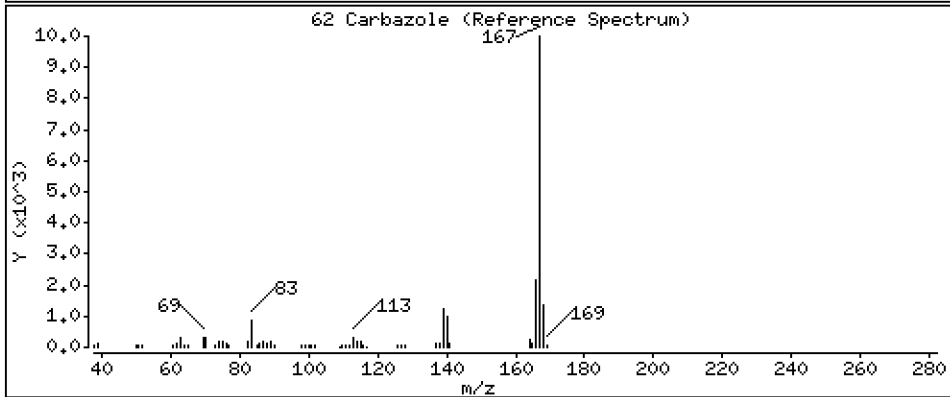
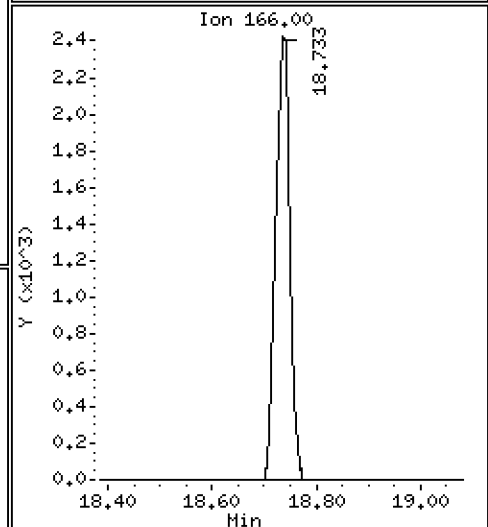
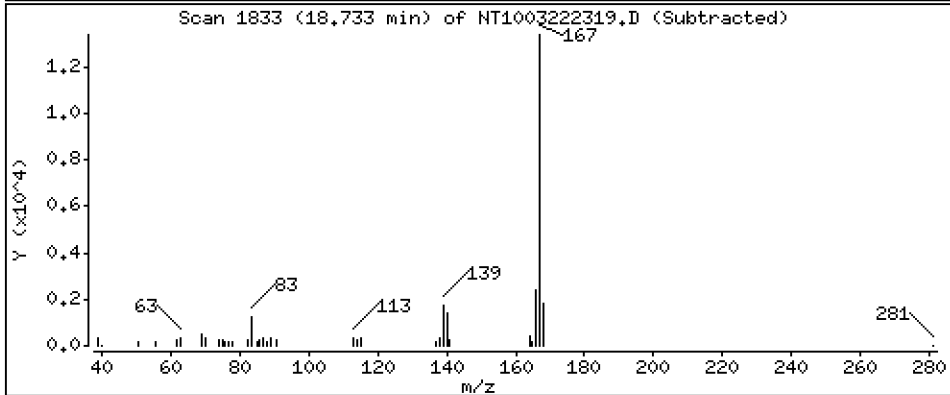
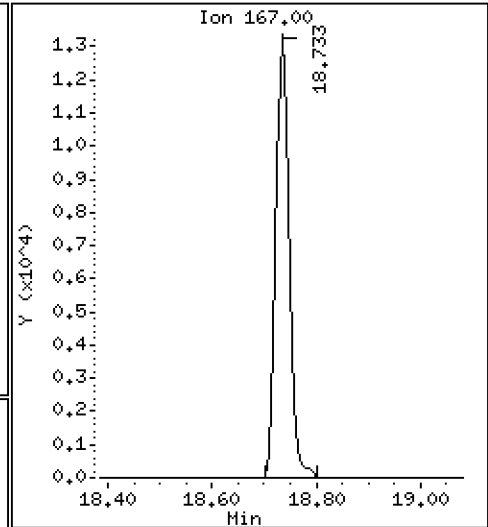
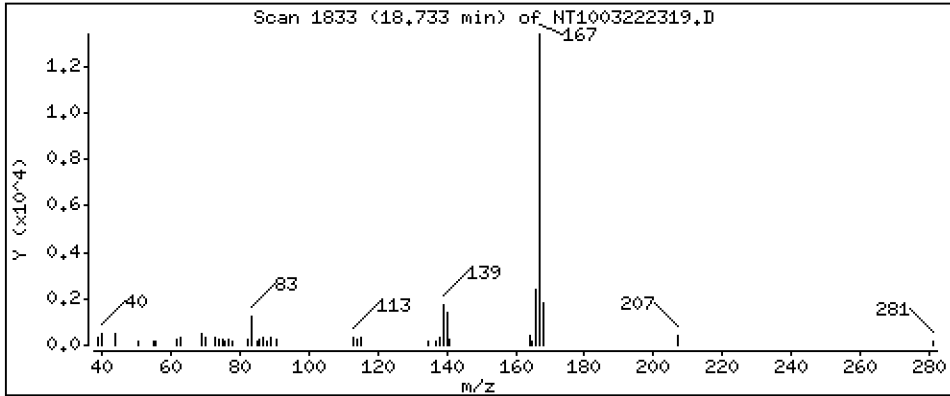
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 0,1992 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

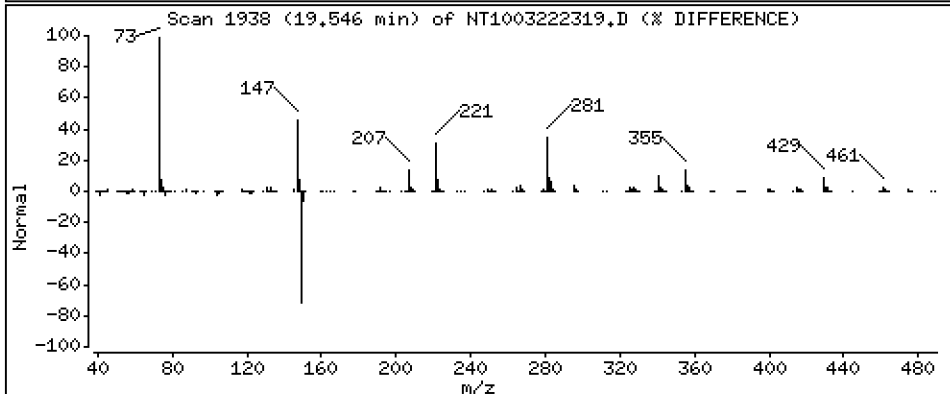
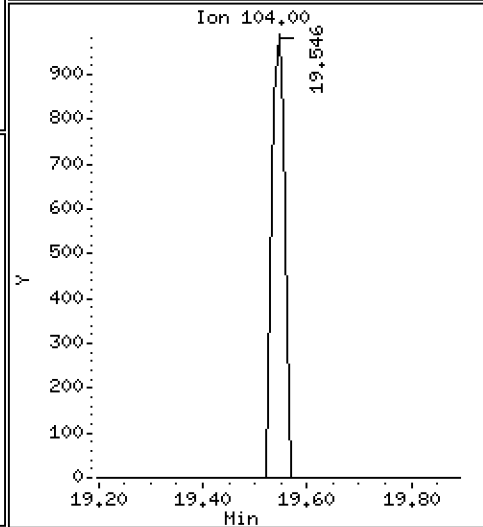
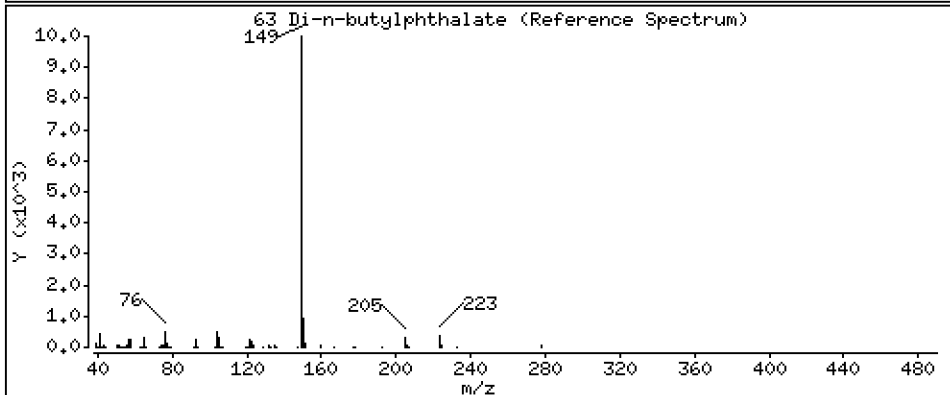
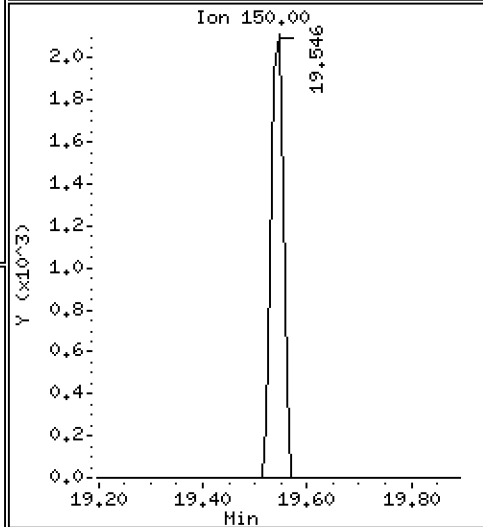
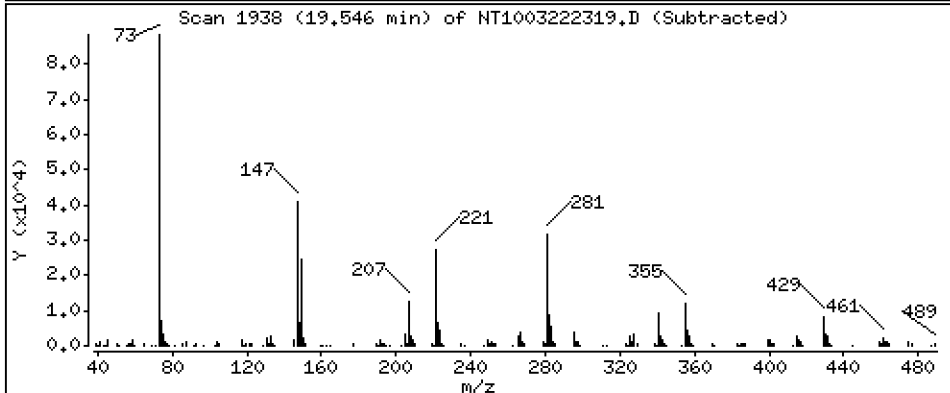
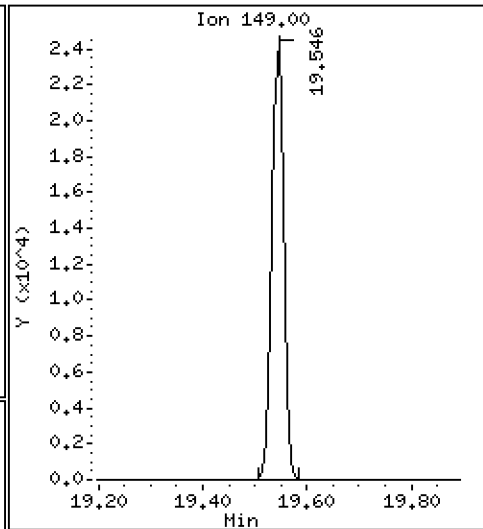
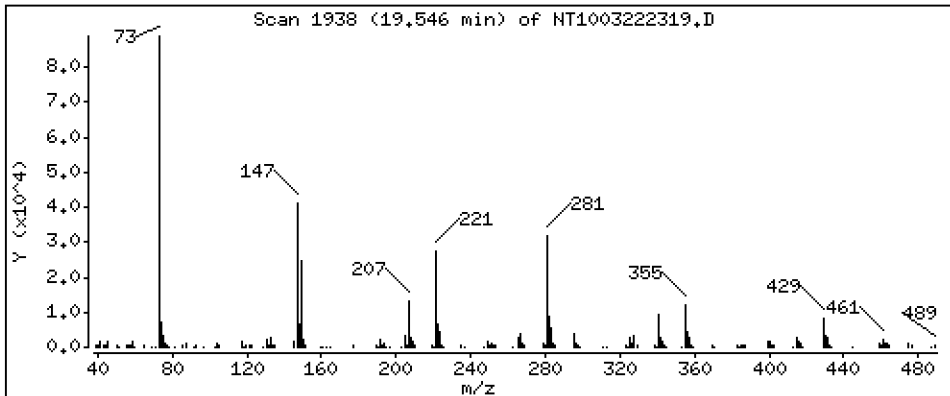
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 0,2388 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

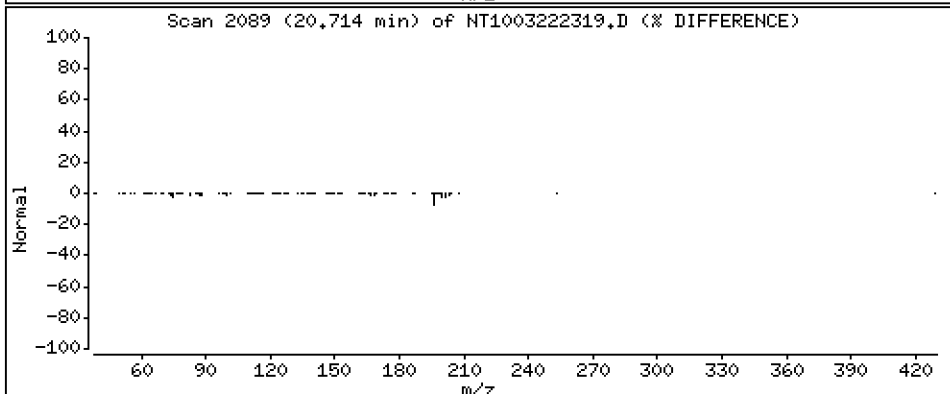
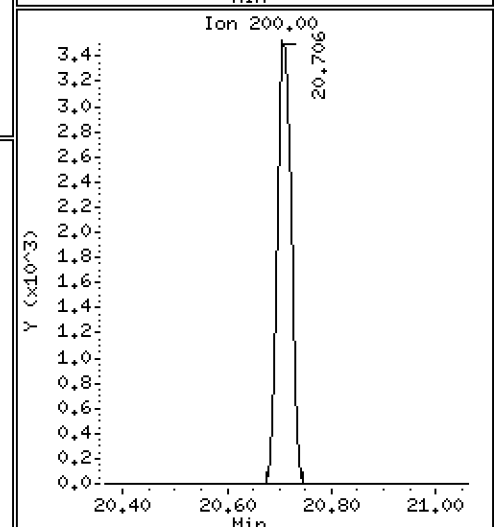
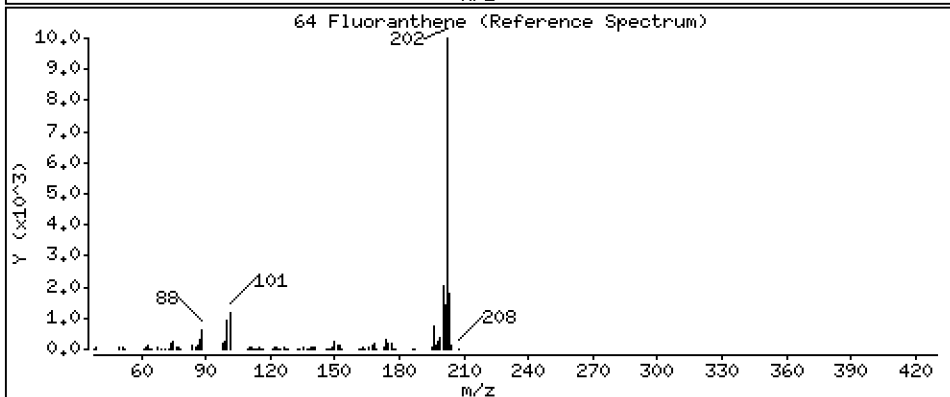
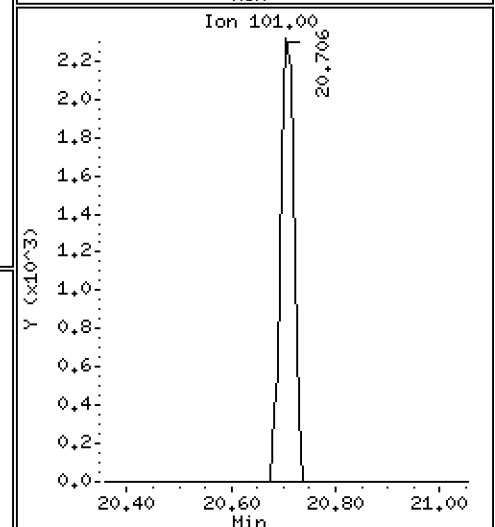
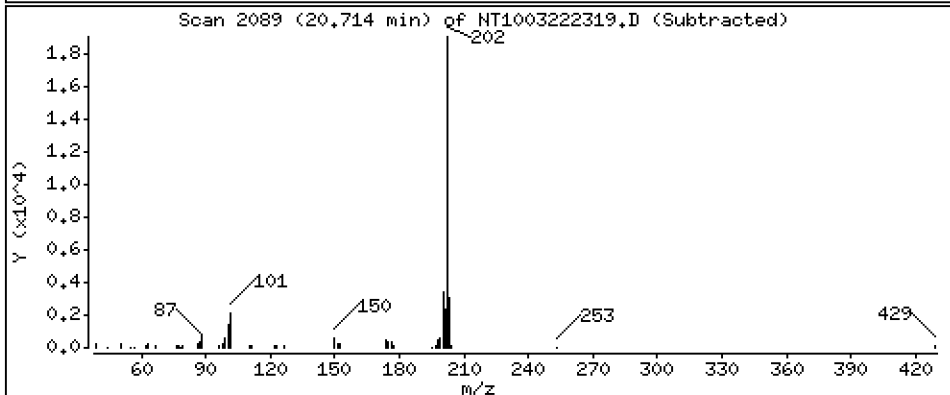
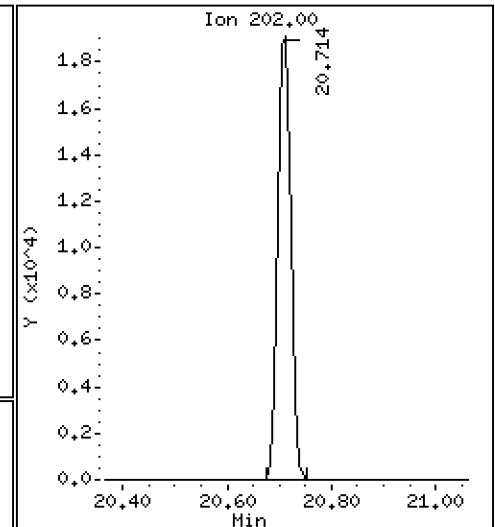
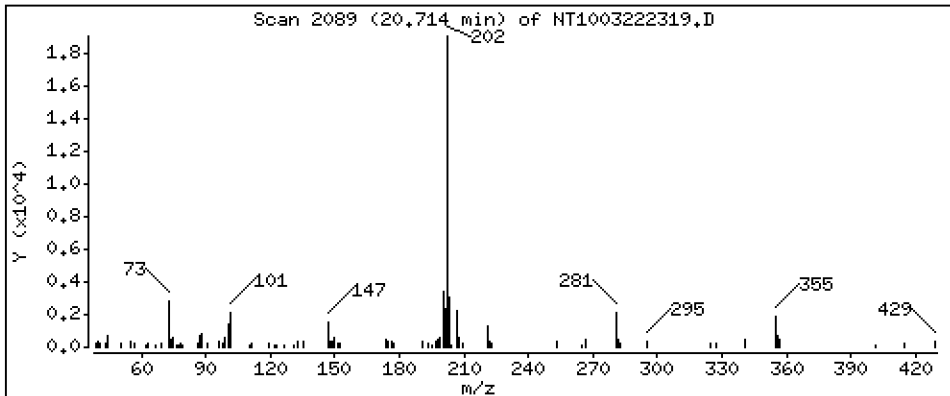
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

Concentration: 0,1801 ug/mL

64 Fluoranthene



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

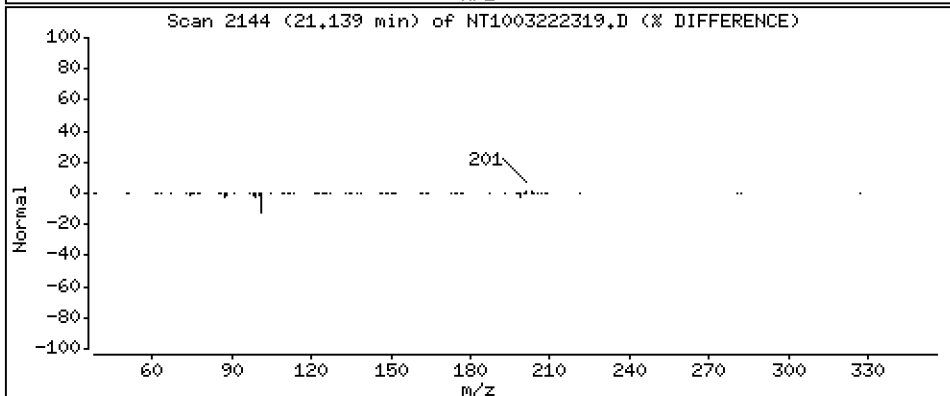
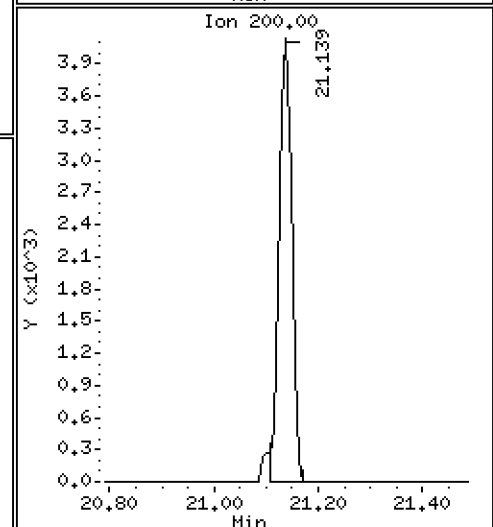
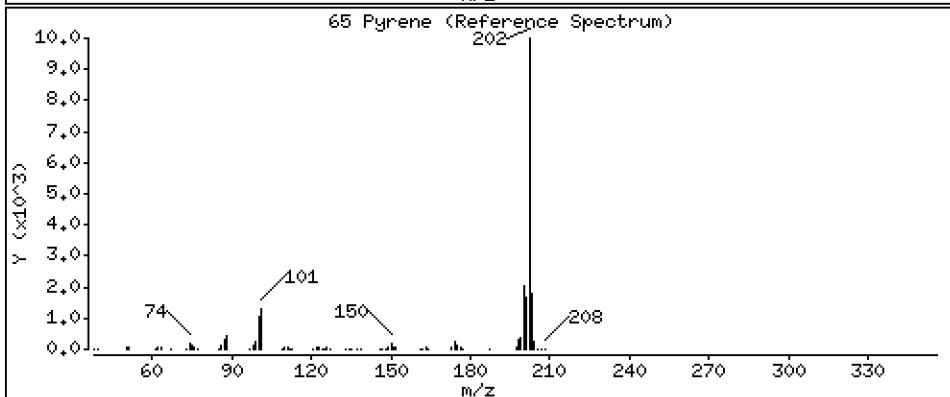
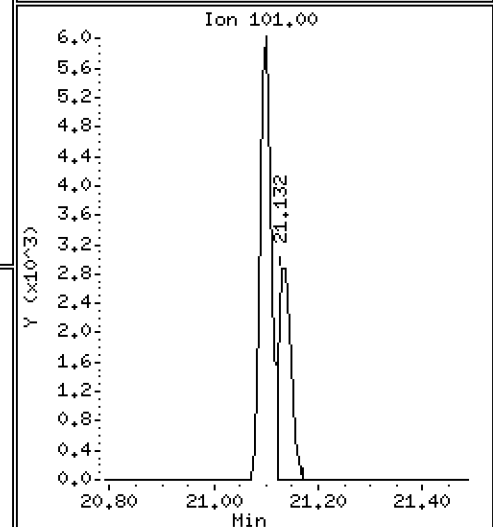
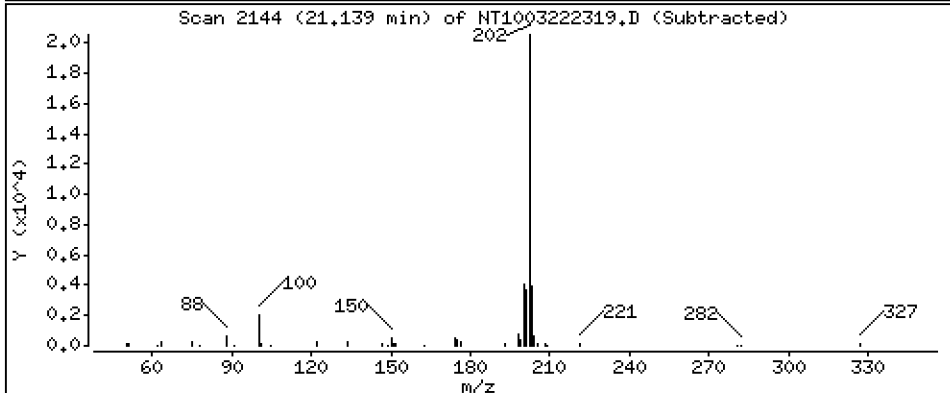
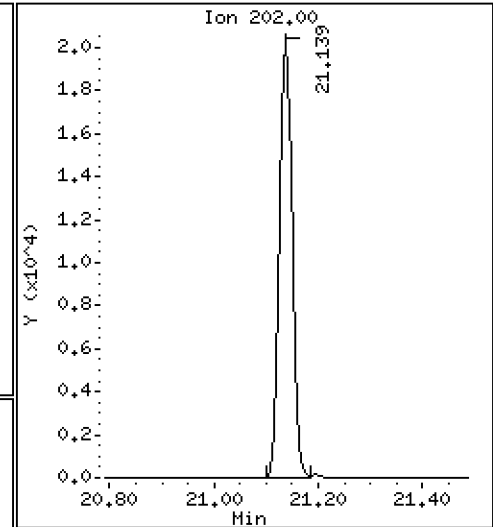
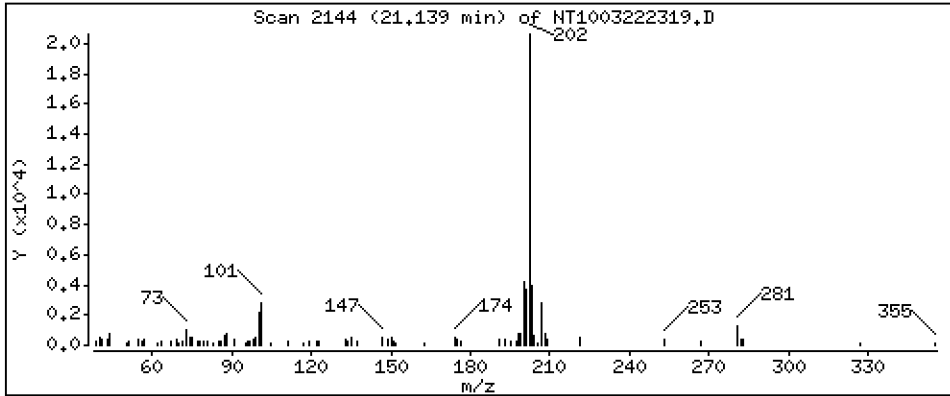
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 0,1791 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

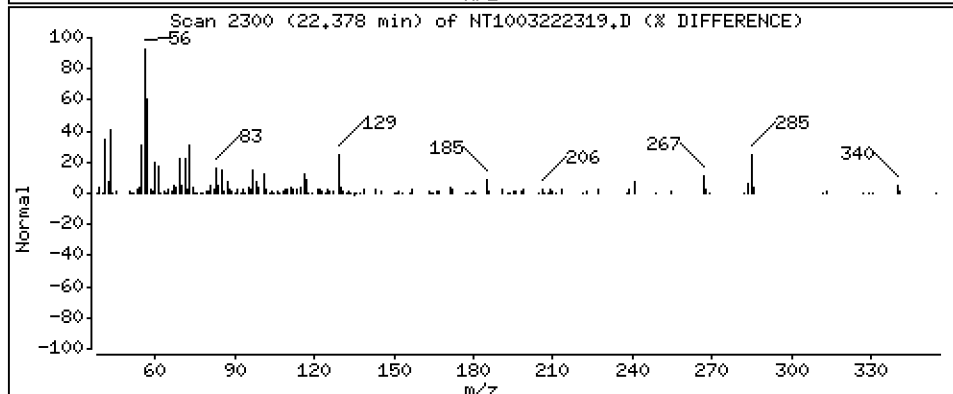
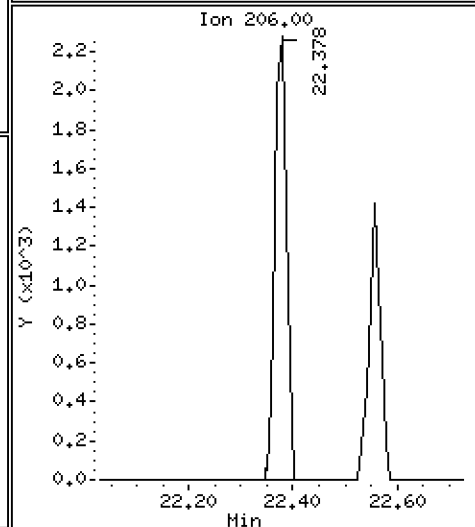
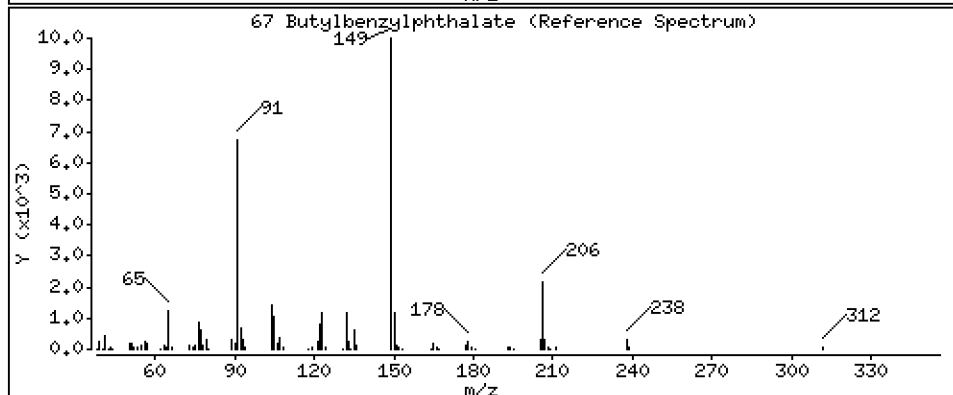
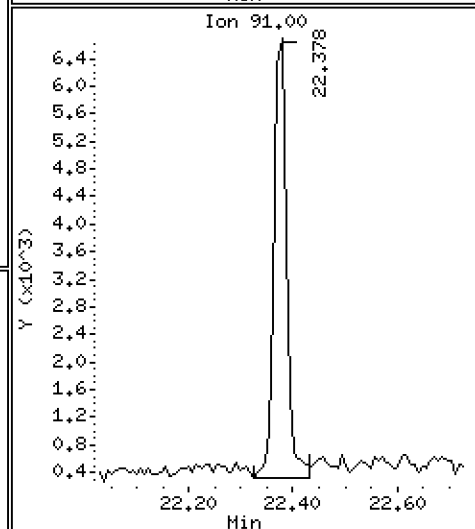
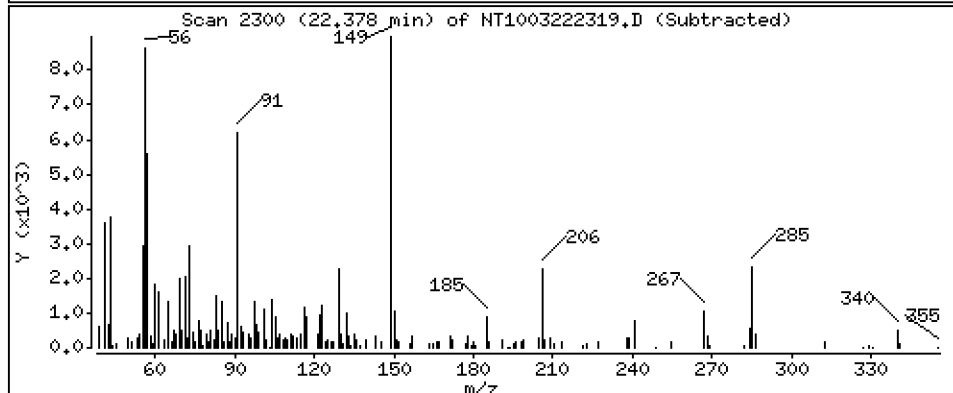
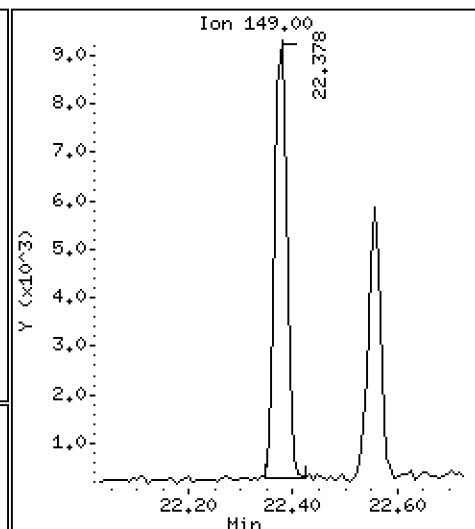
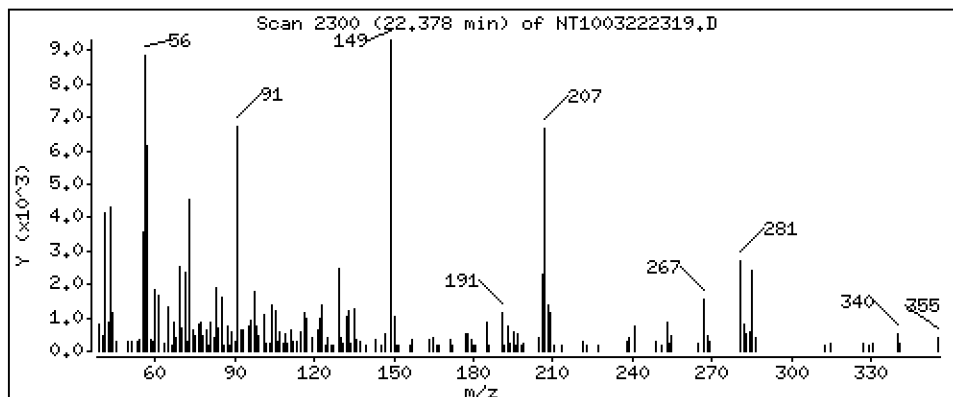
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 0,2157 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

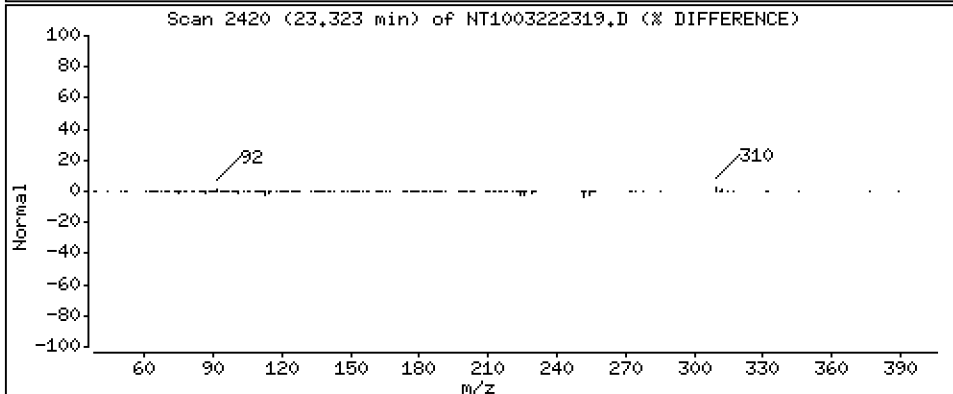
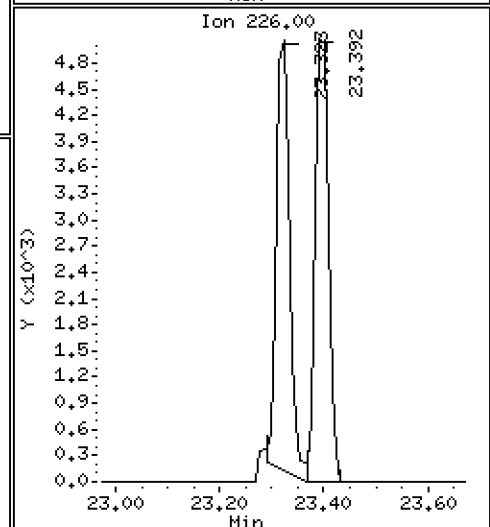
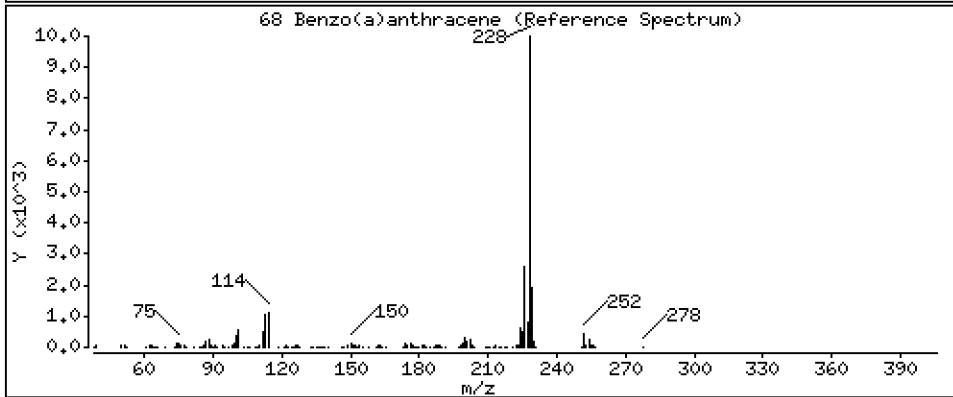
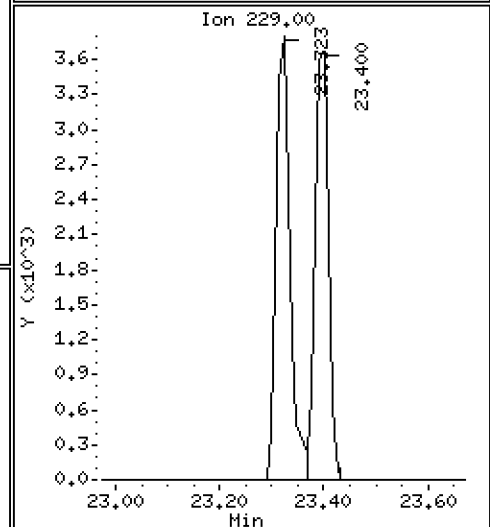
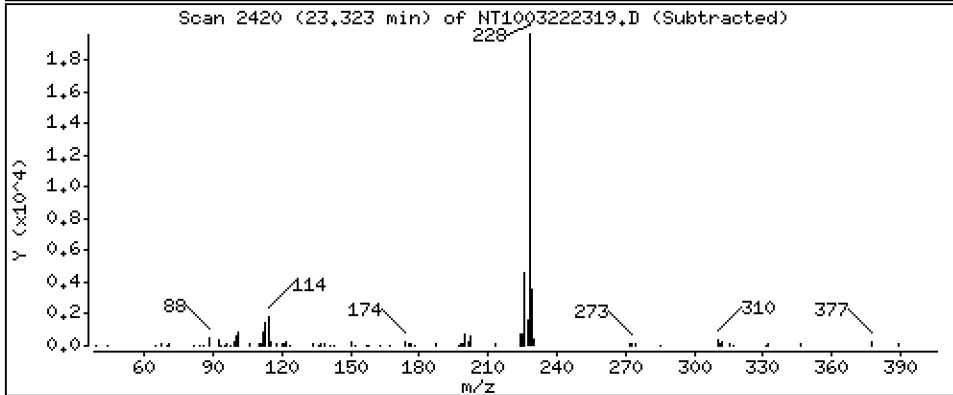
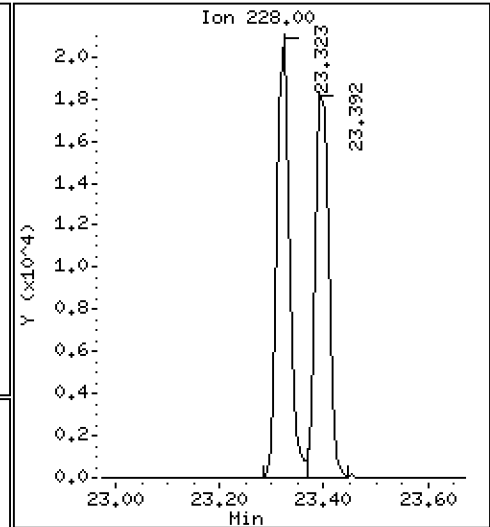
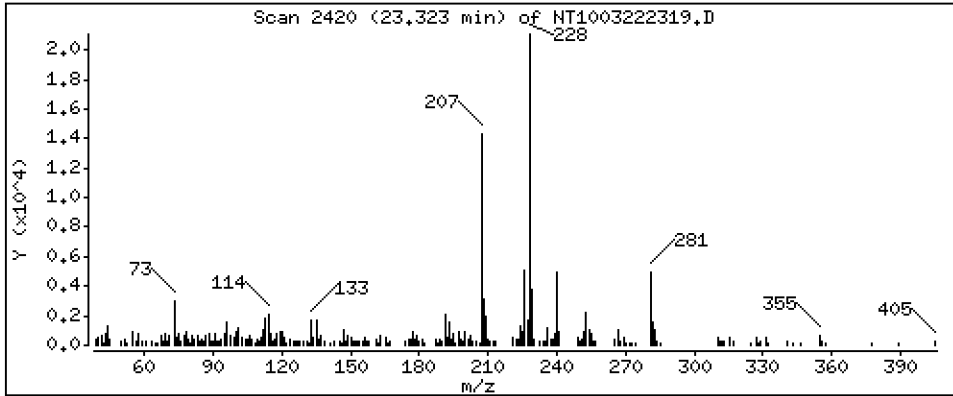
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 0,2146 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

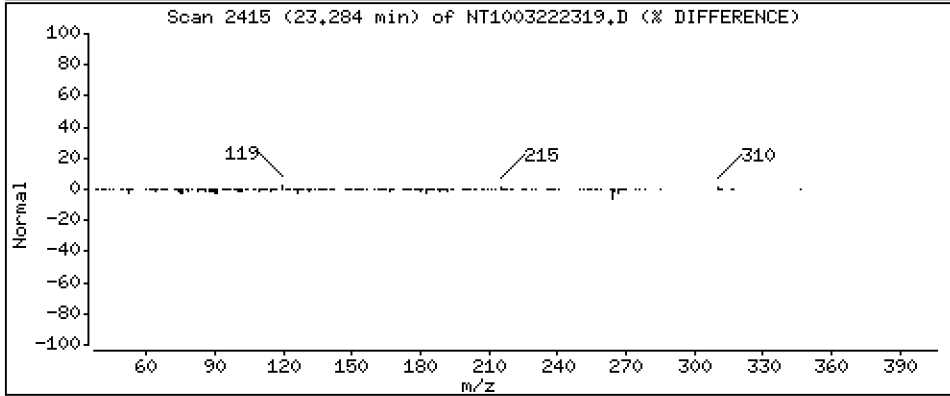
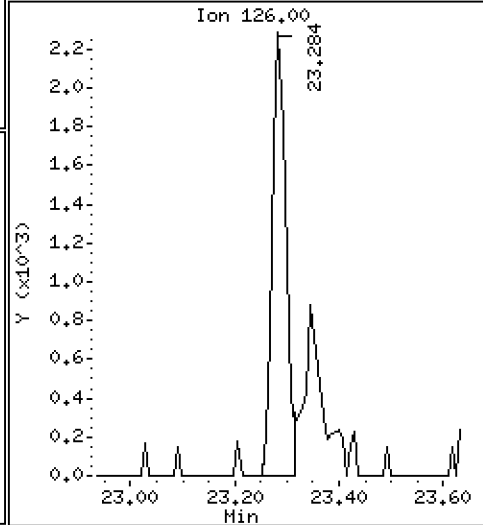
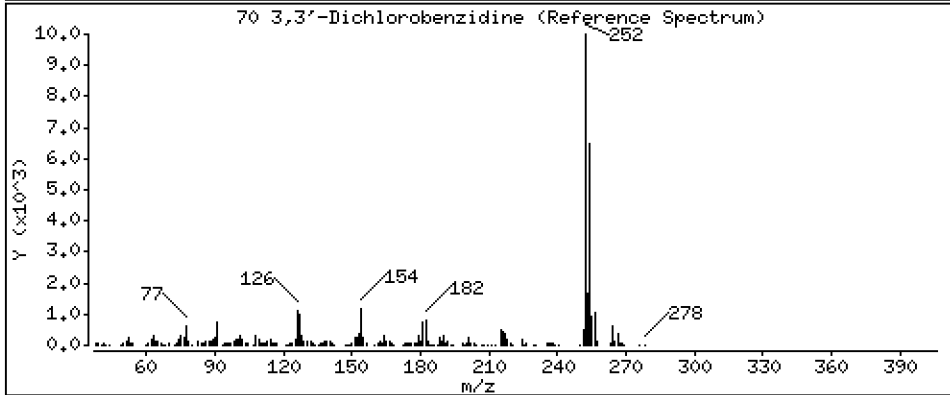
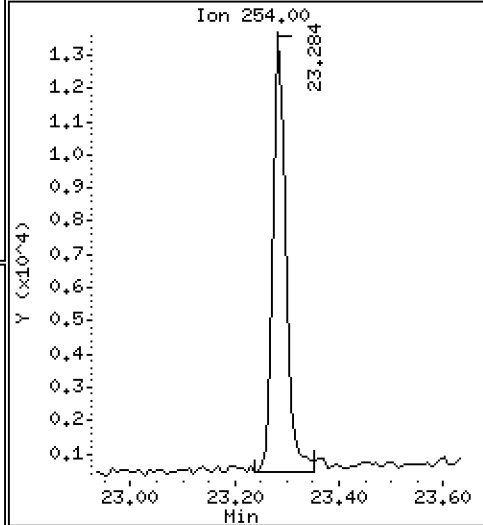
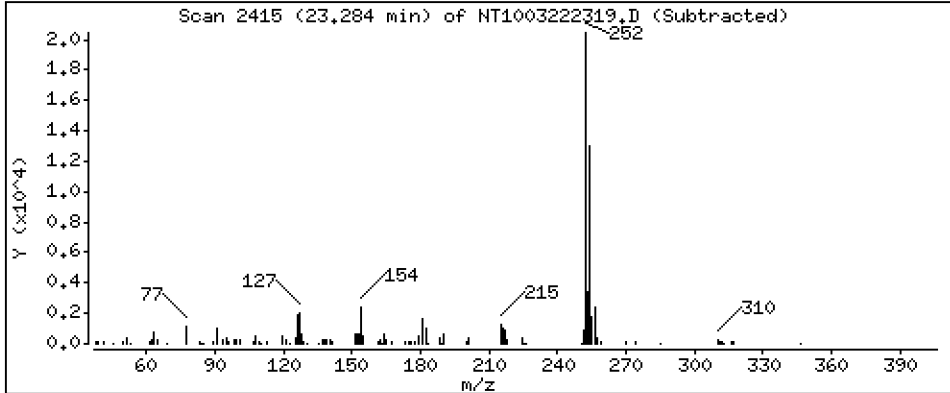
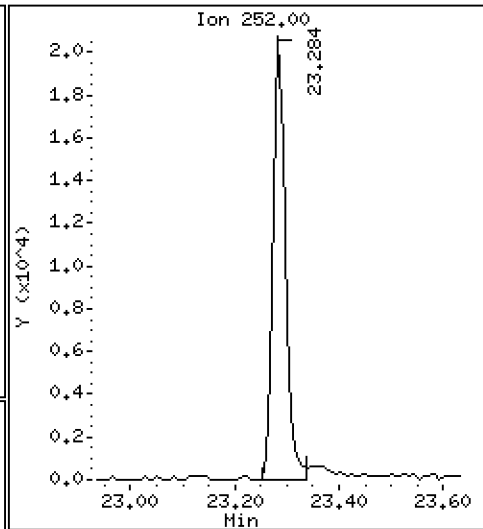
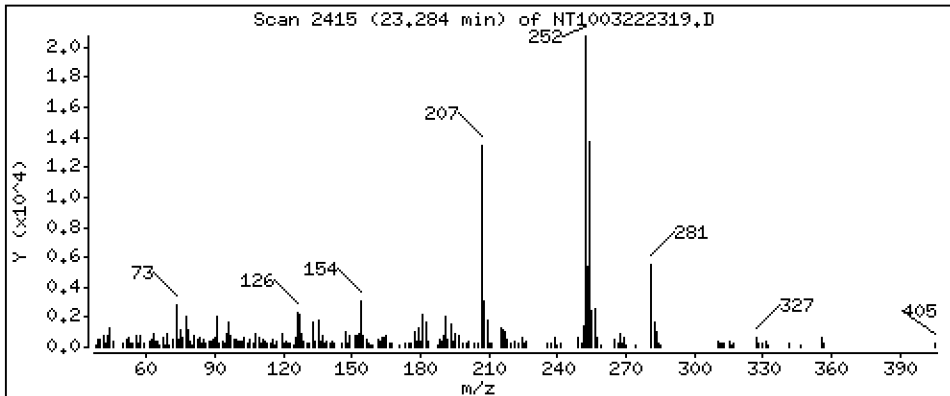
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

70 3,3'-Dichlorobenzidine

Concentration: 0,6447 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

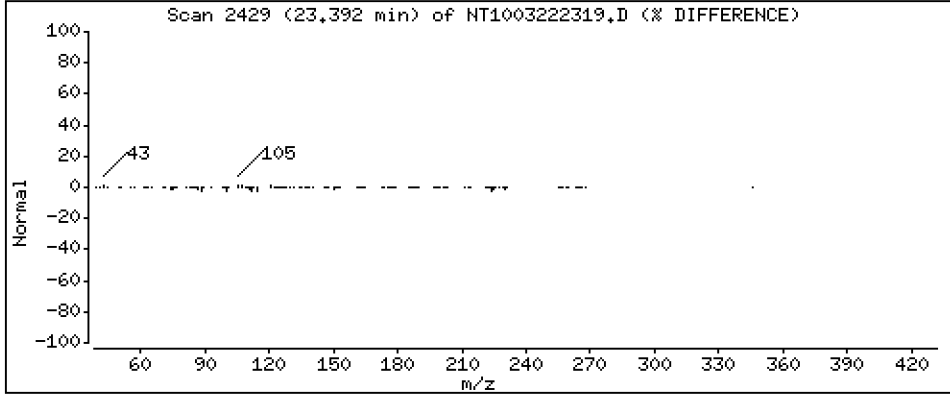
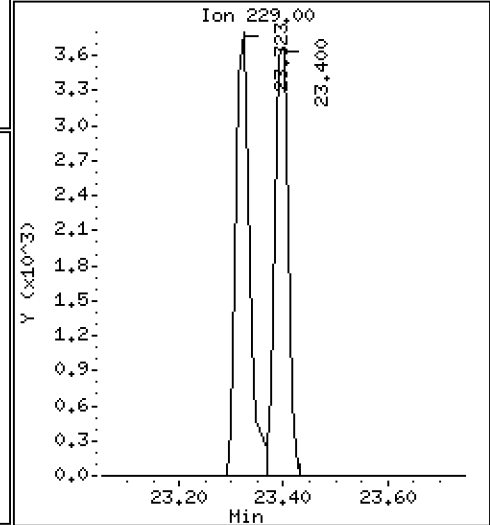
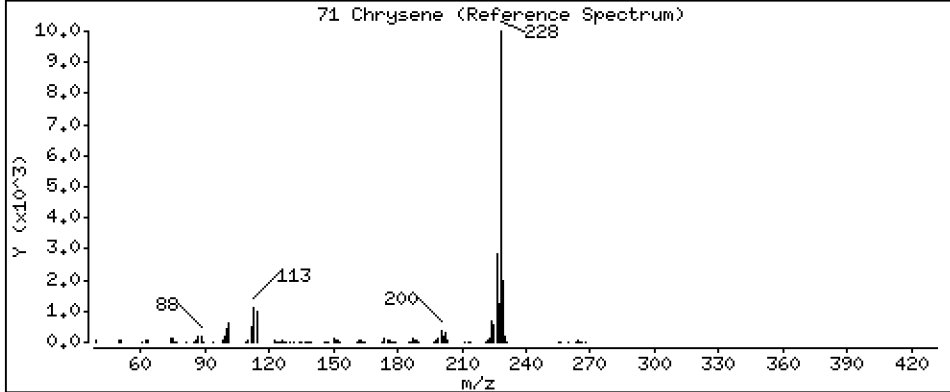
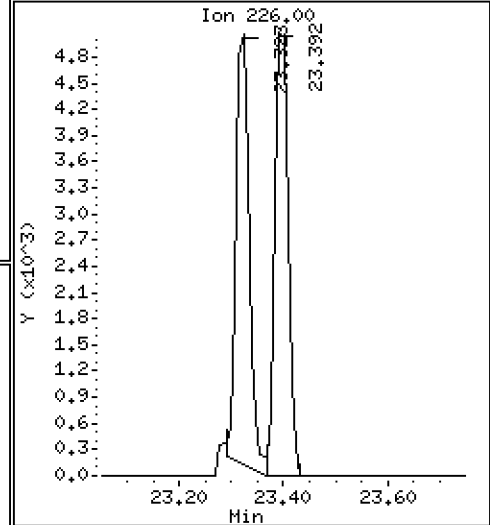
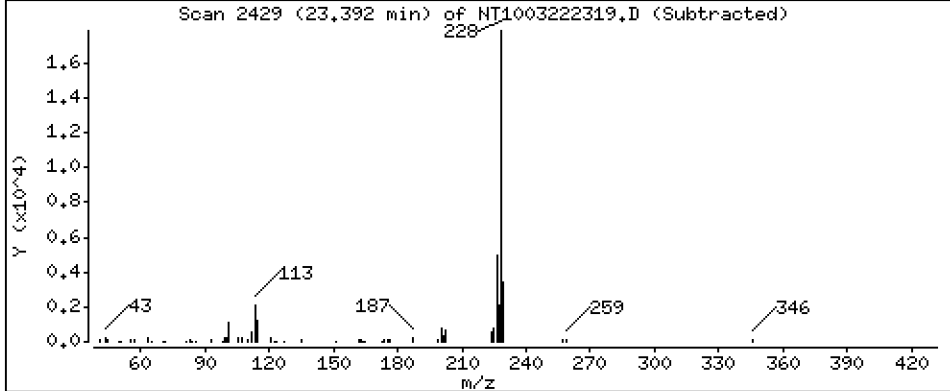
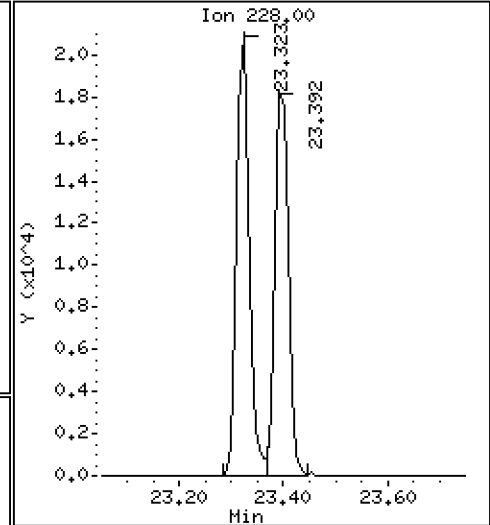
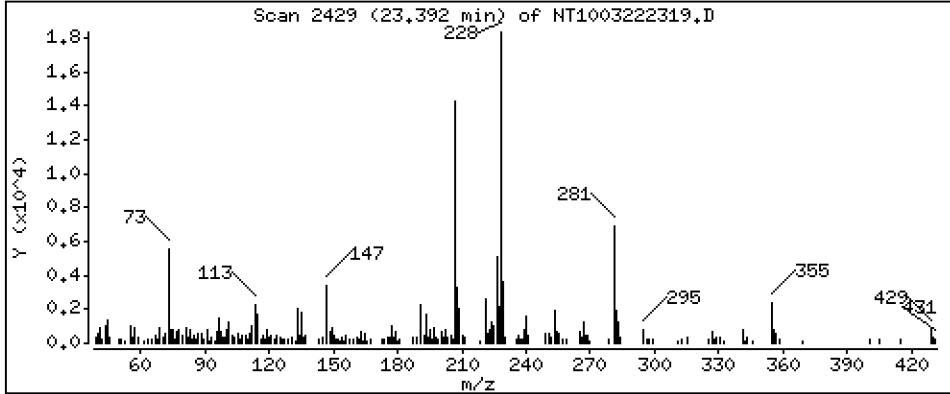
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 0,2044 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

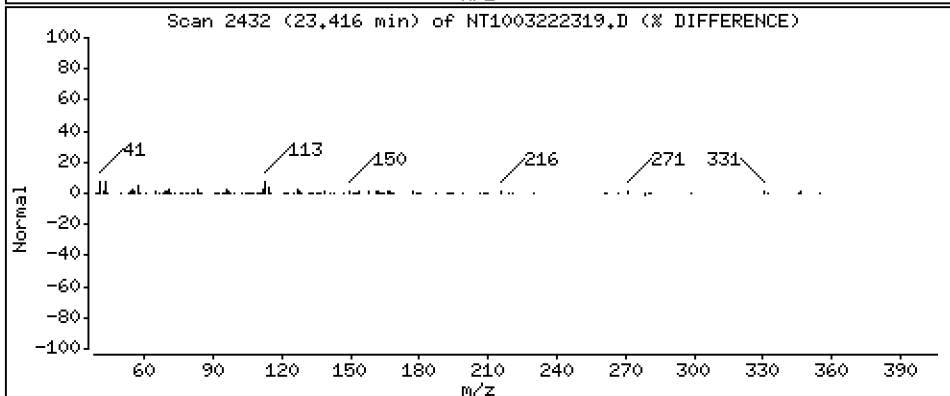
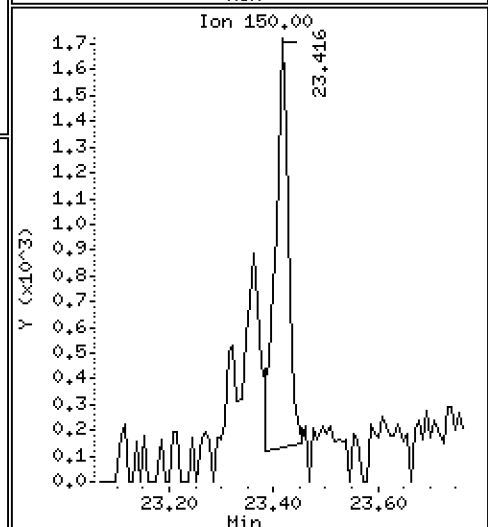
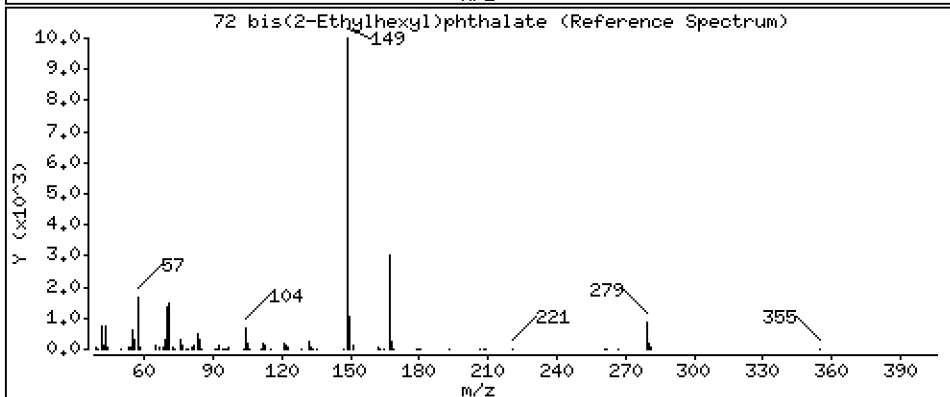
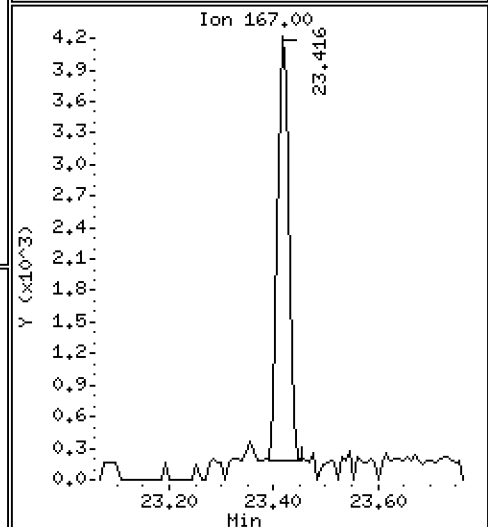
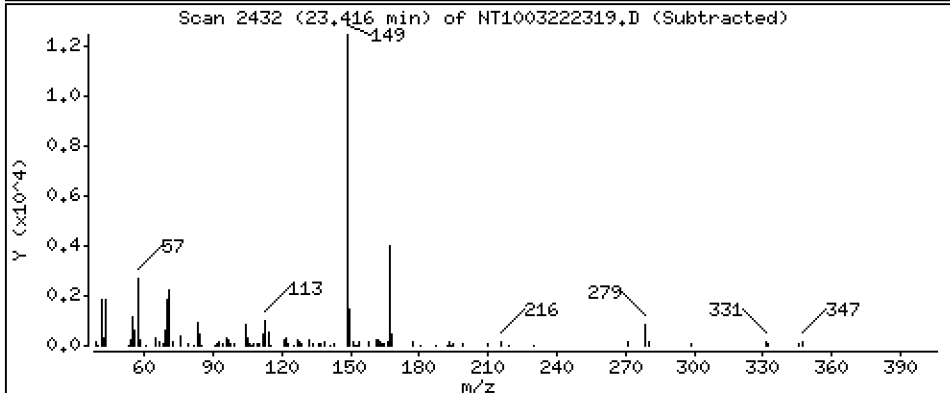
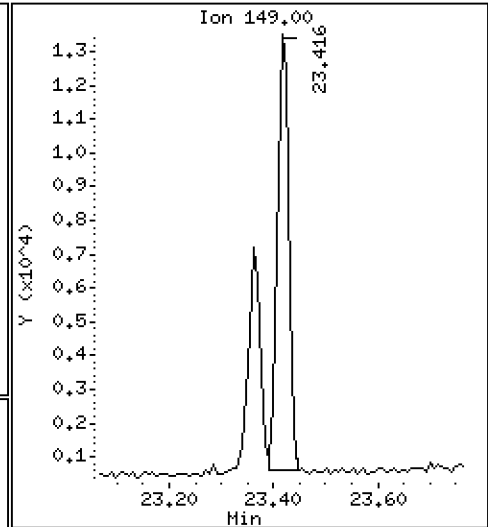
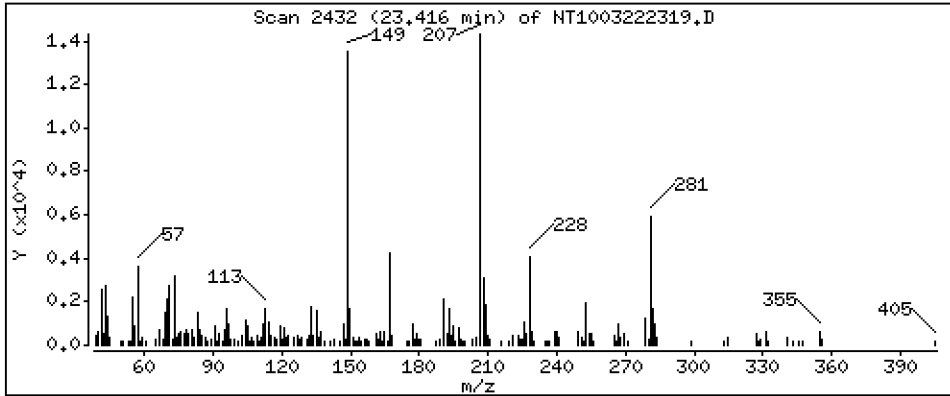
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 0,1872 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

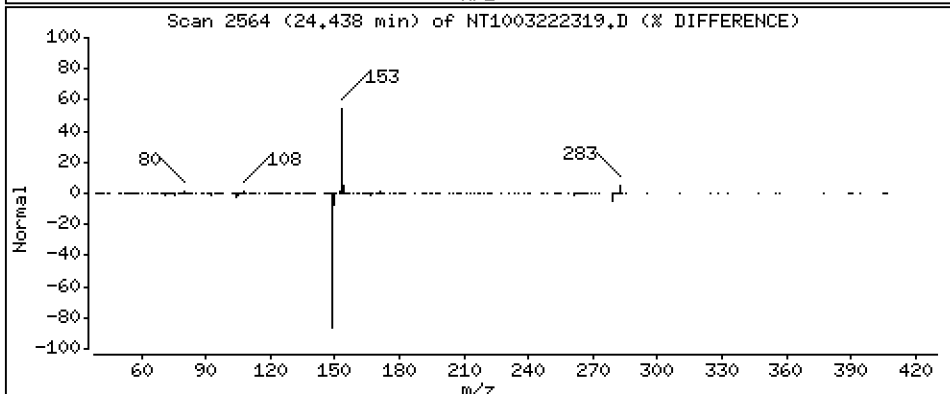
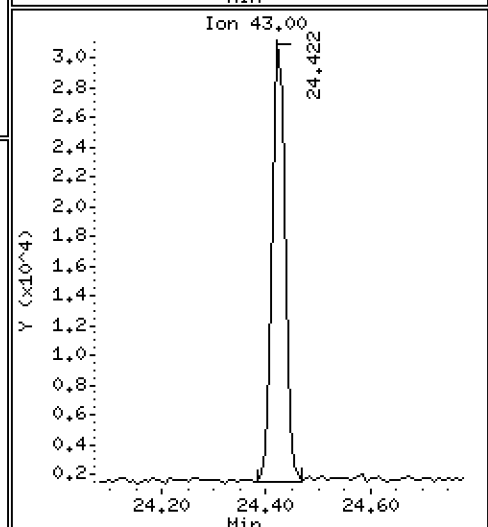
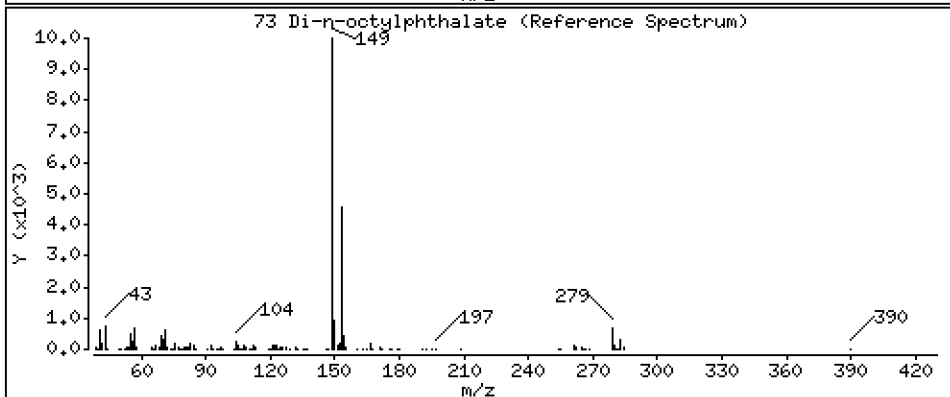
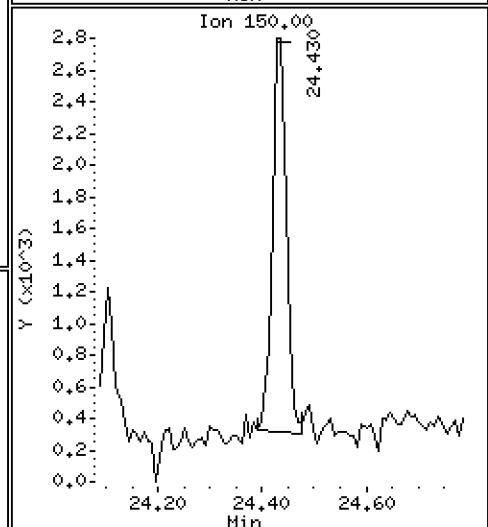
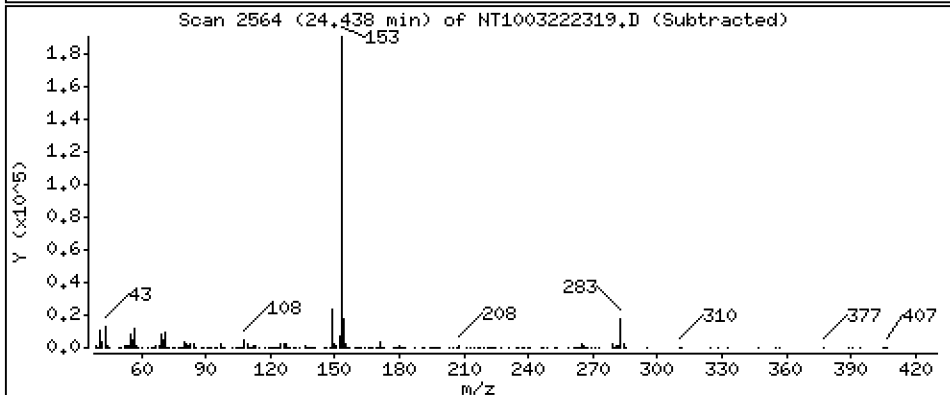
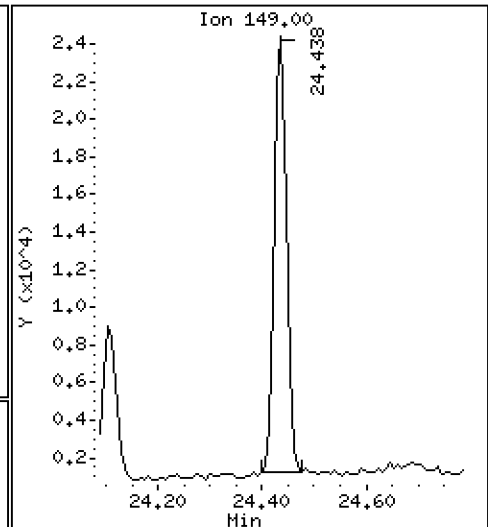
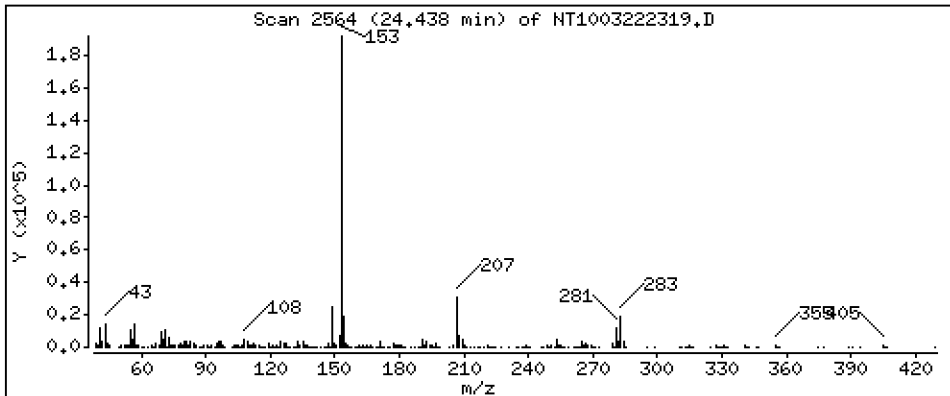
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 0,2019 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

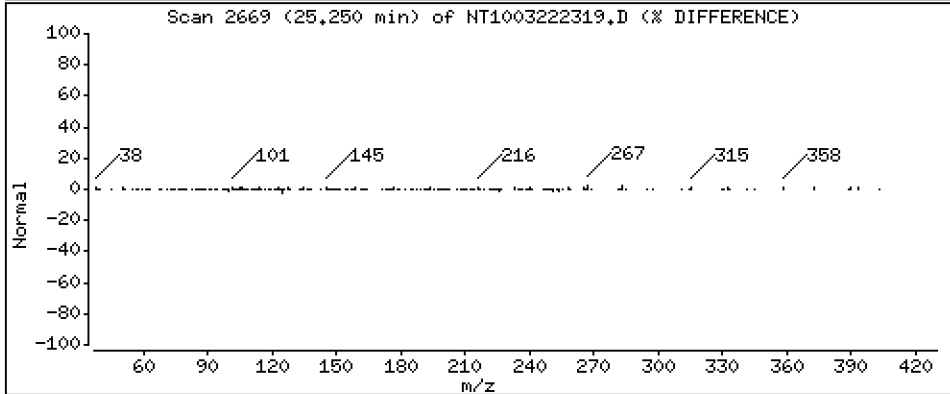
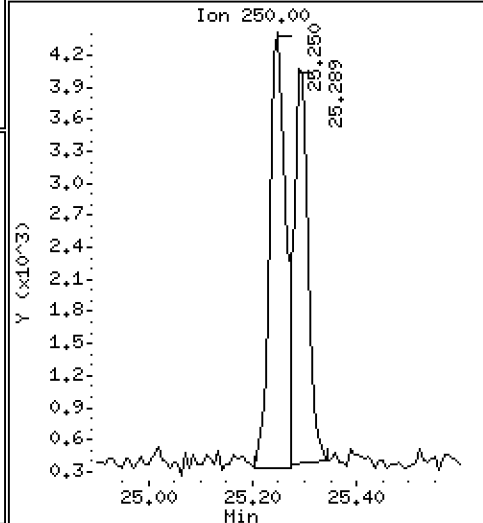
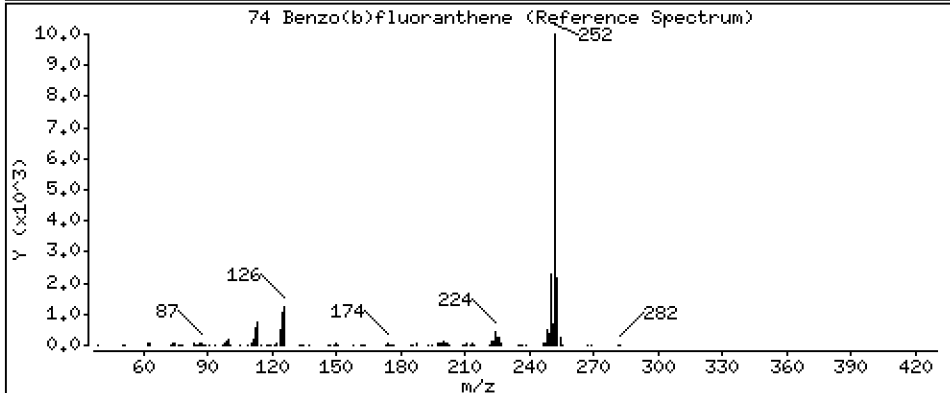
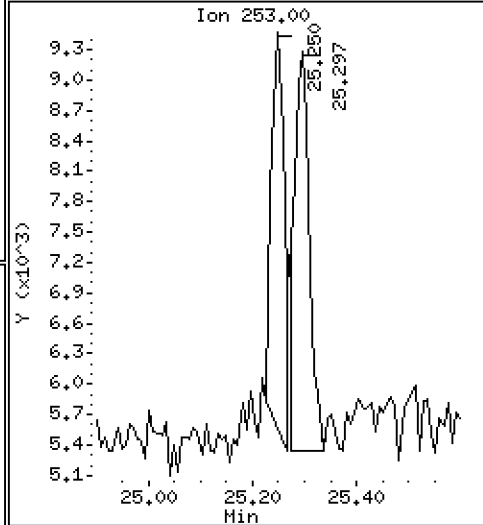
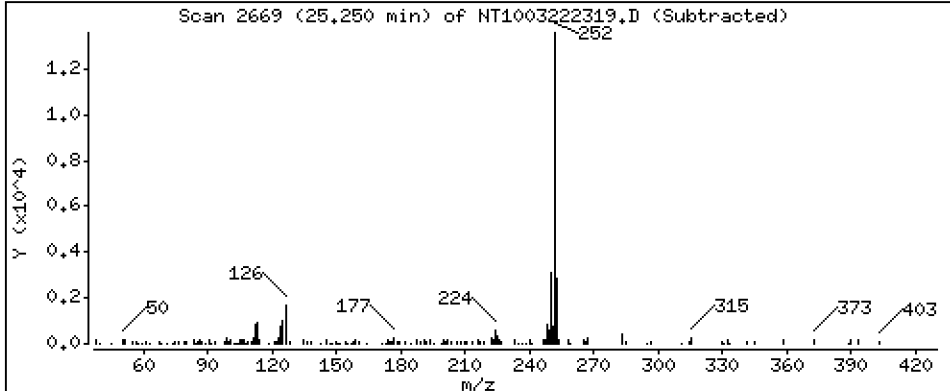
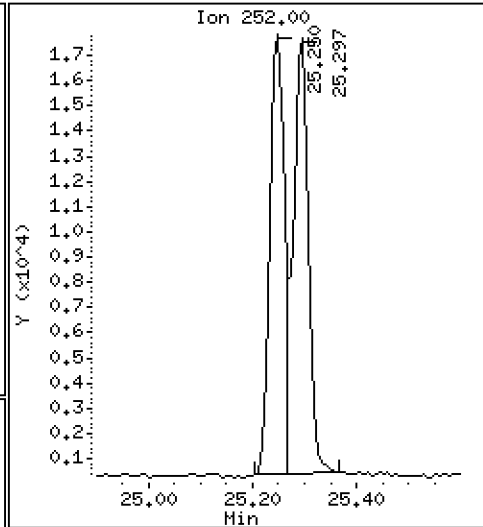
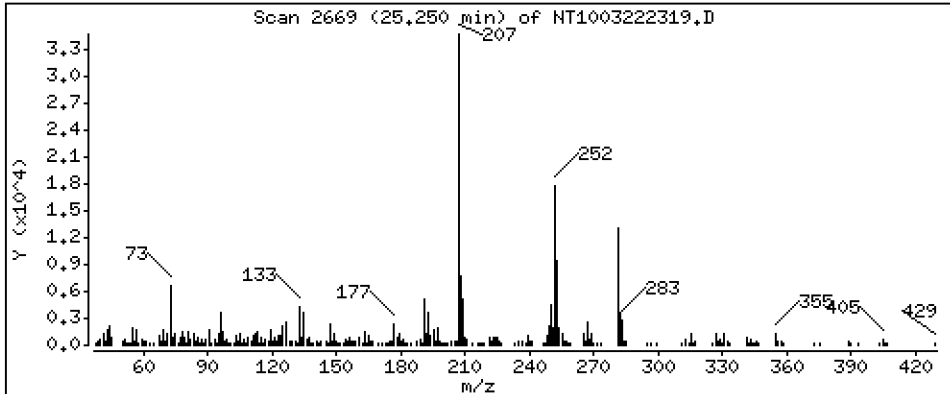
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 0,1942 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

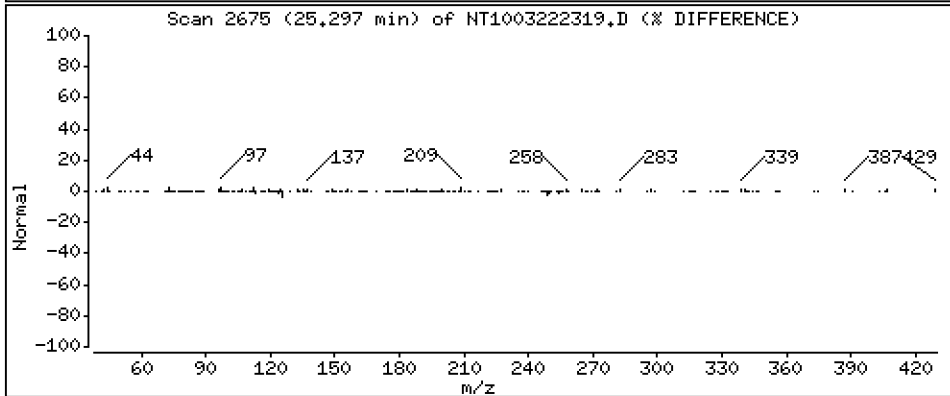
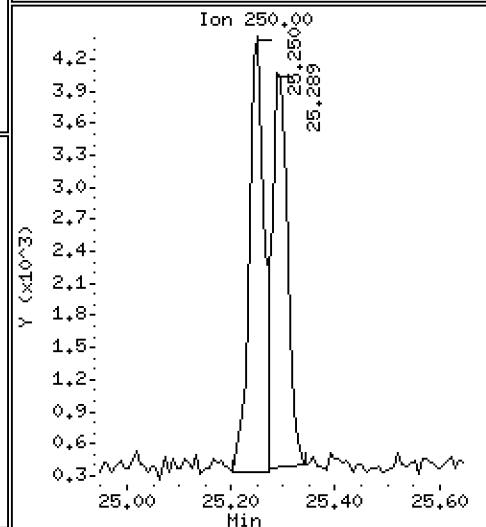
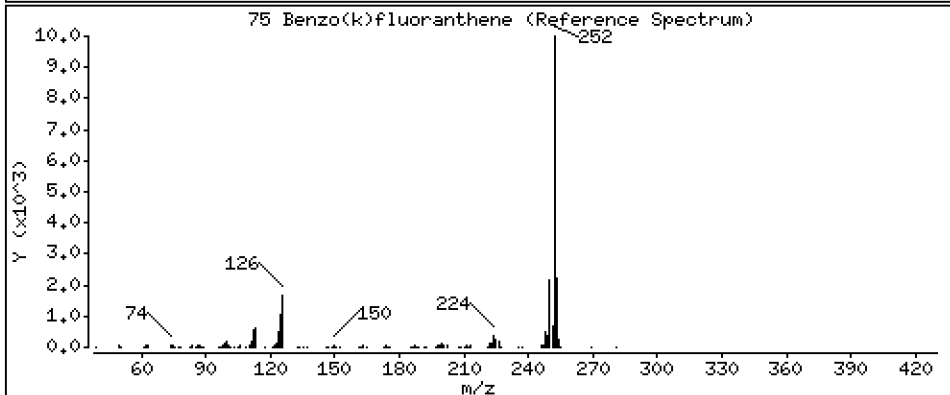
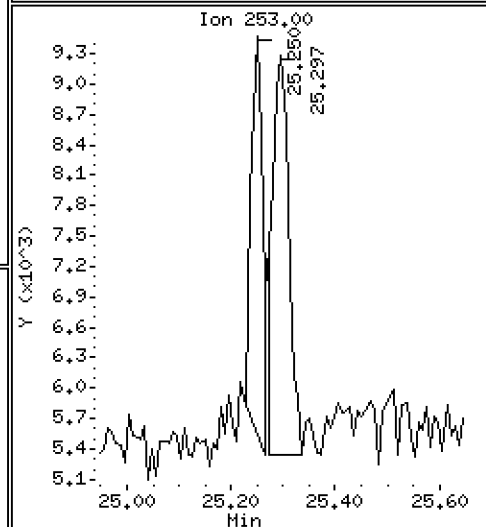
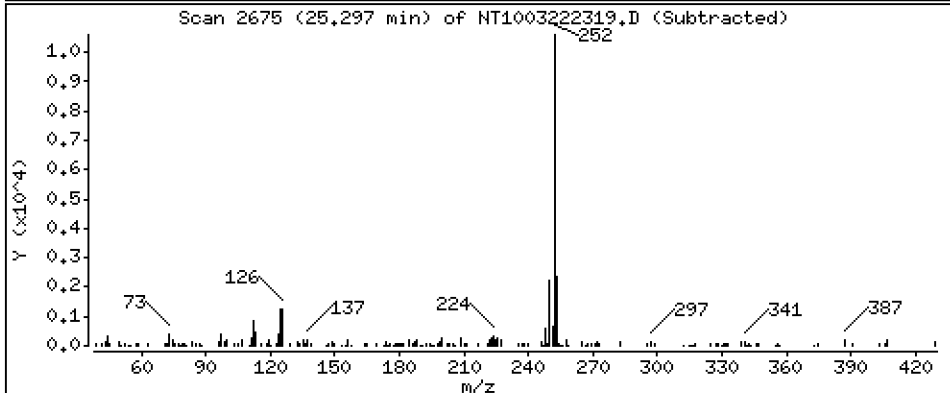
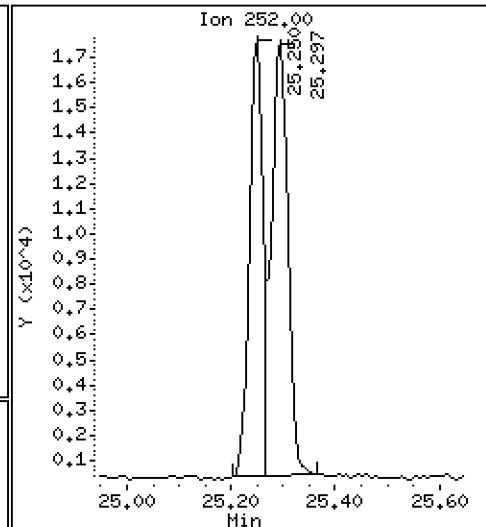
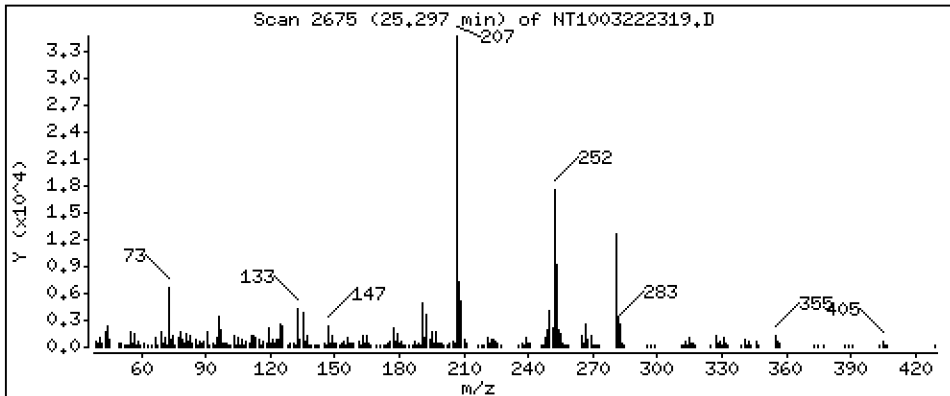
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 0,2290 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

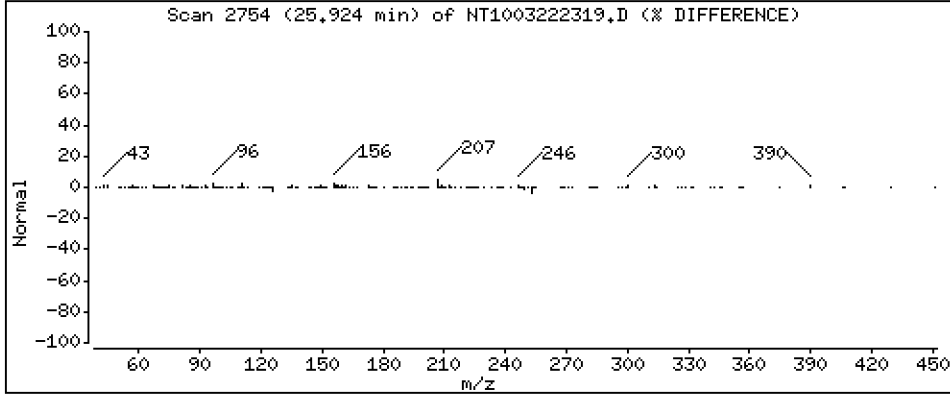
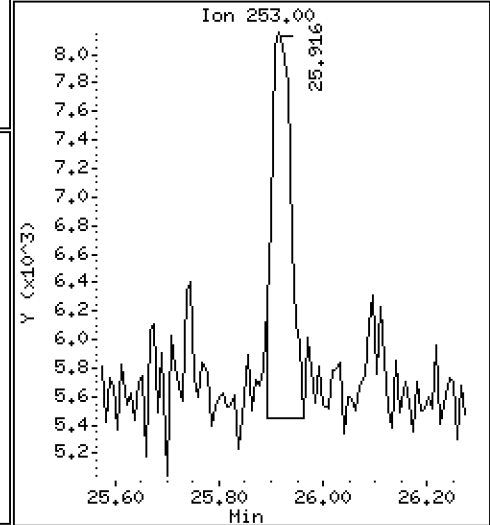
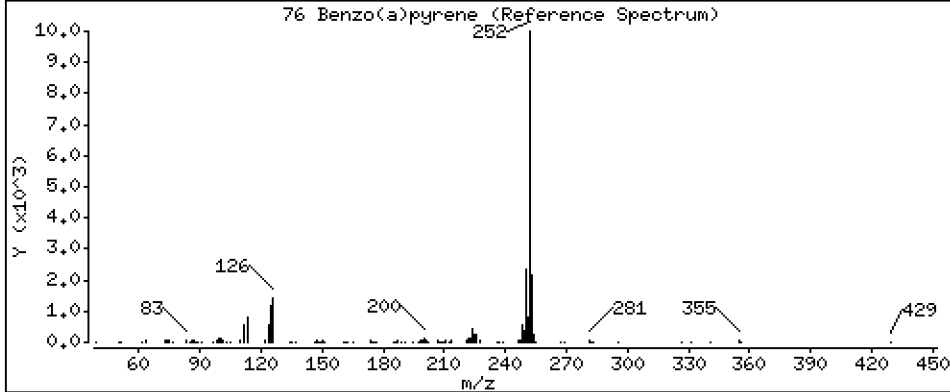
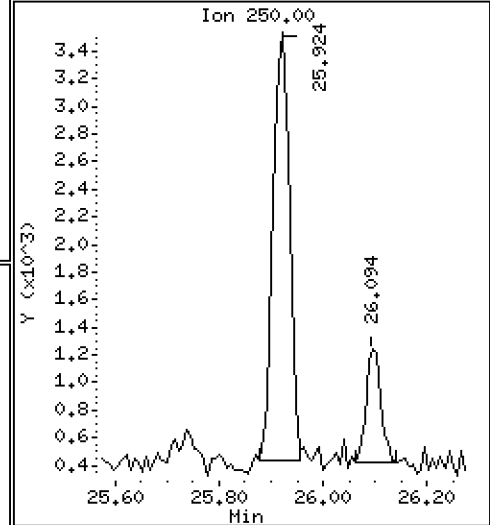
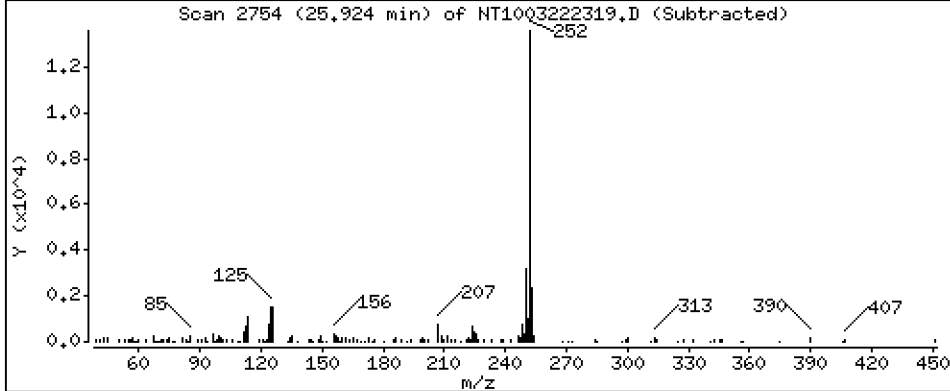
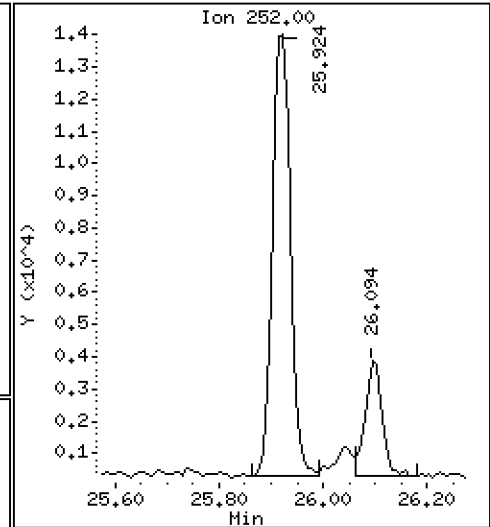
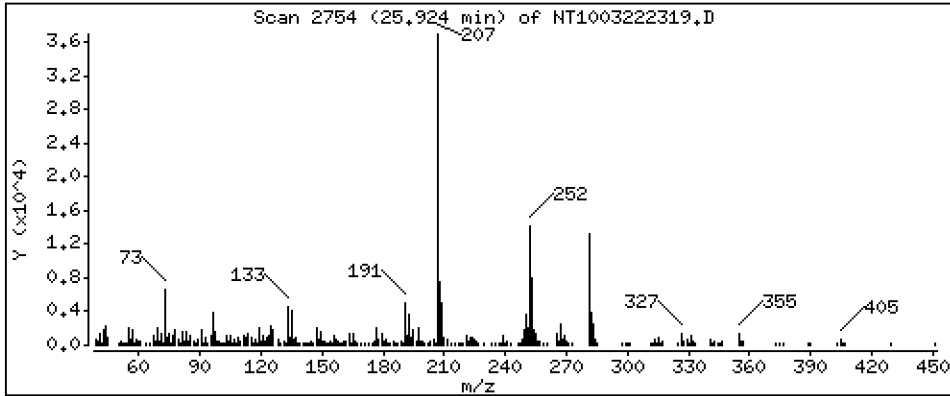
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 0,2157 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

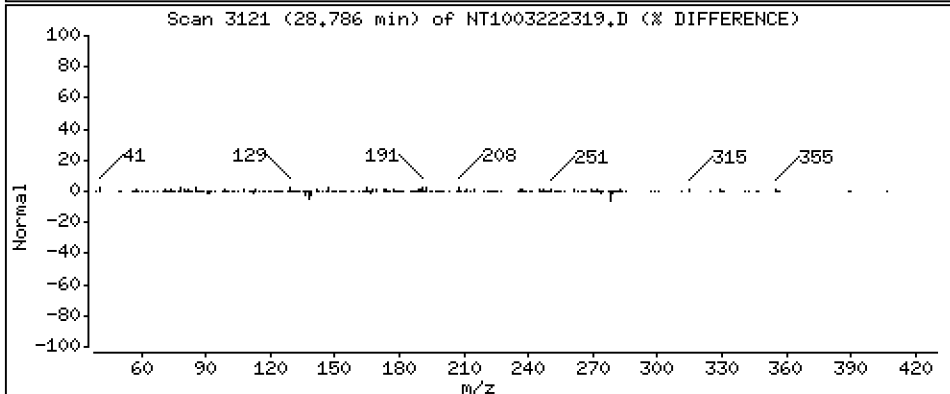
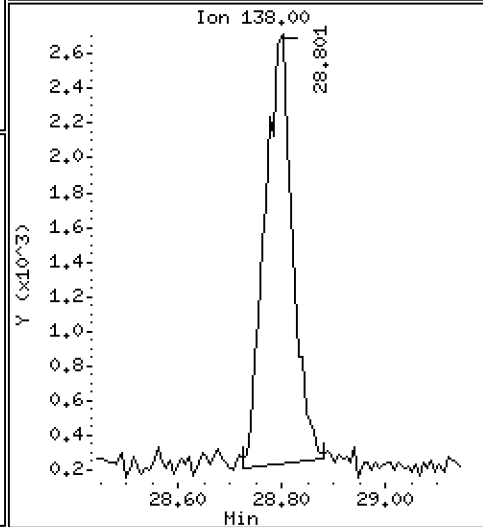
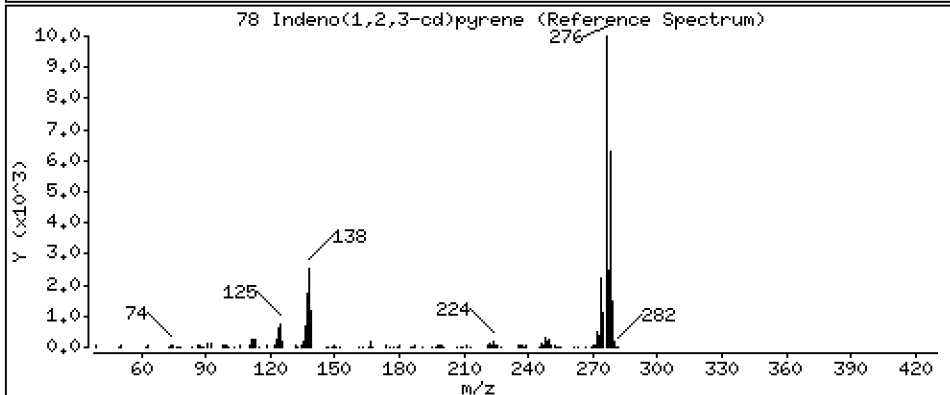
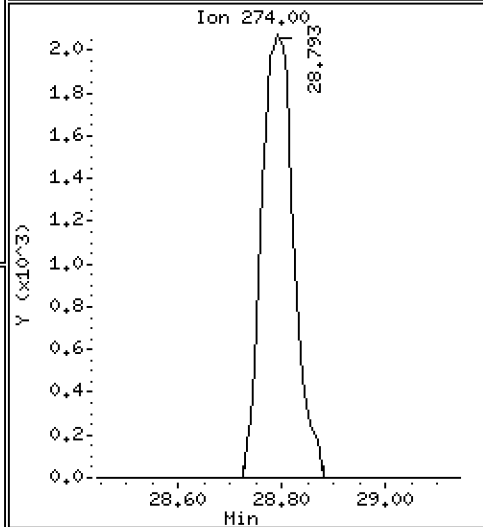
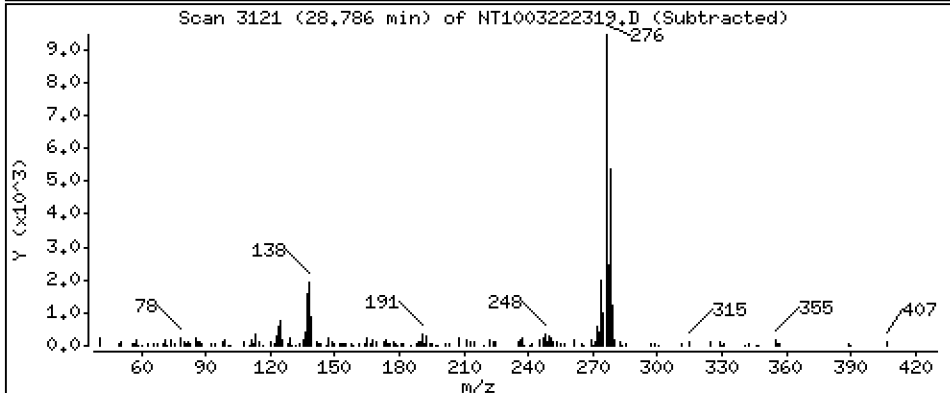
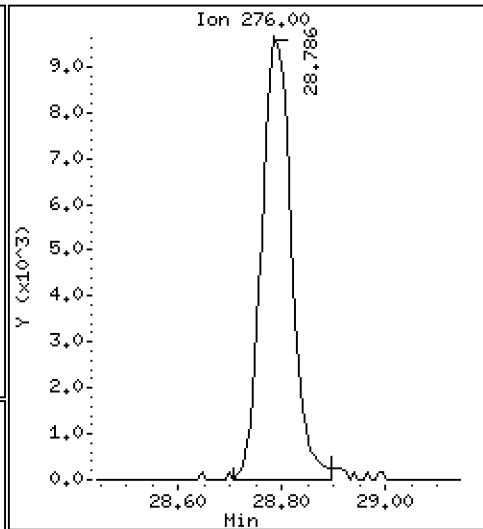
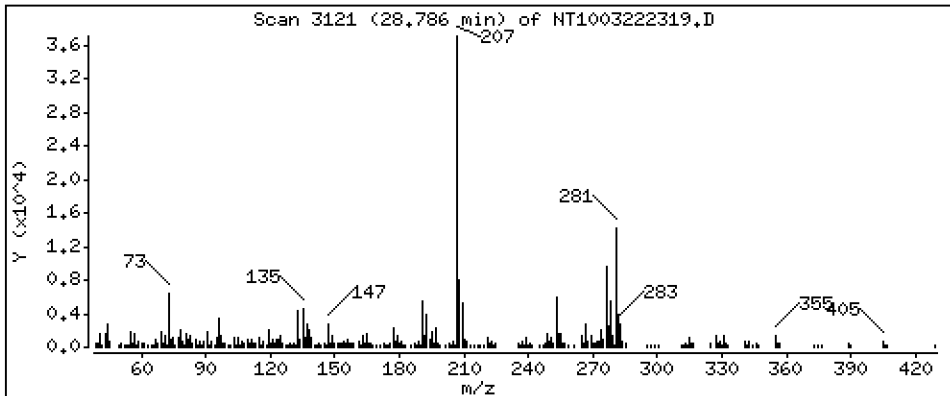
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 0,2021 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

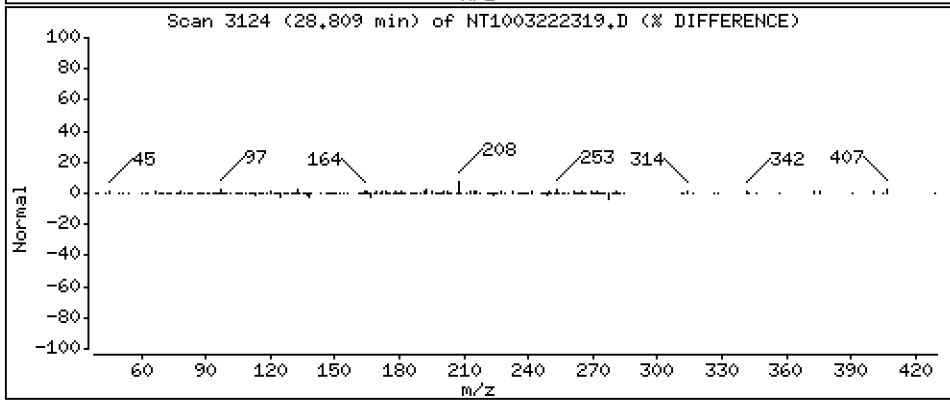
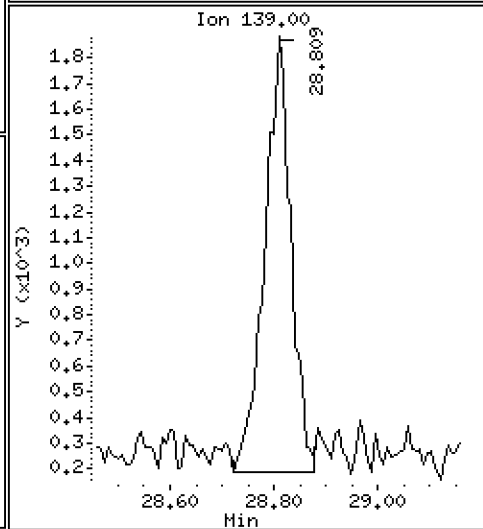
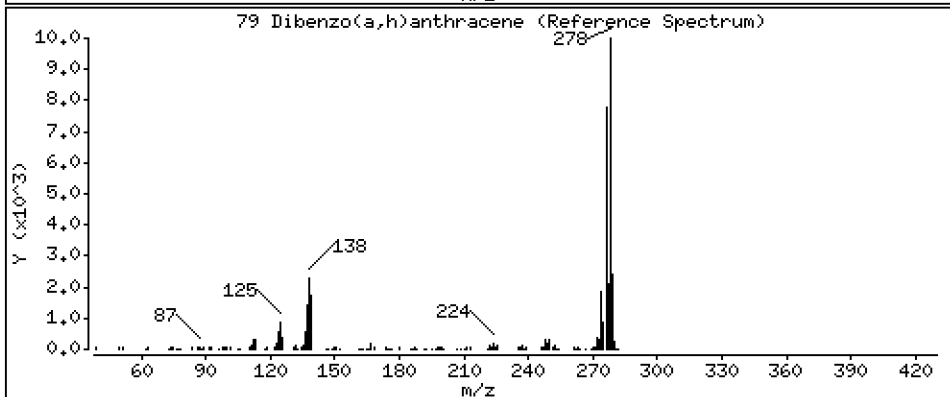
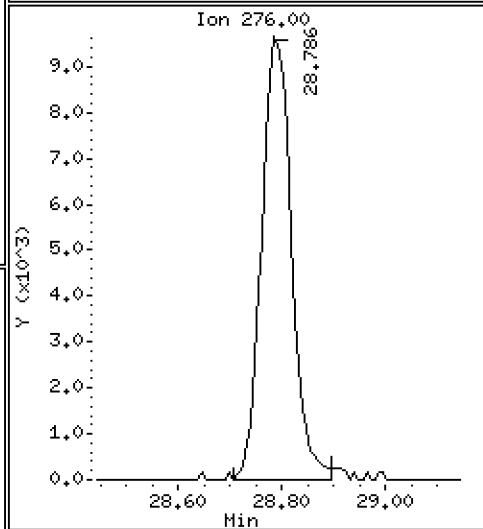
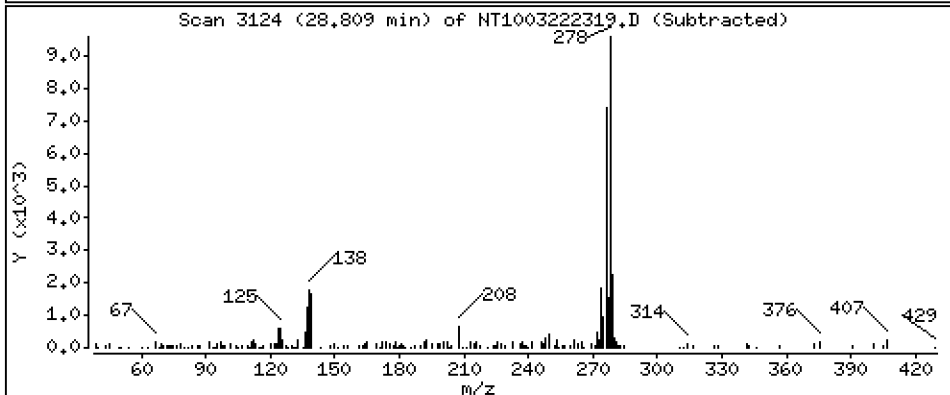
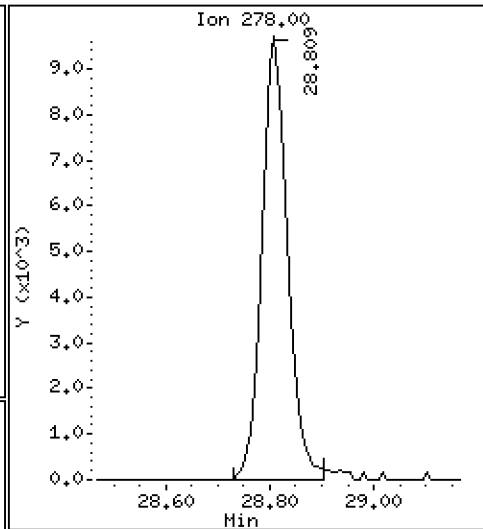
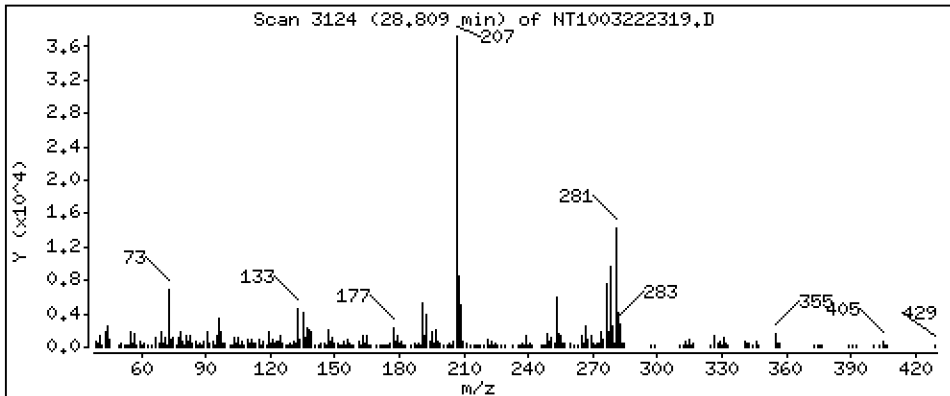
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 0,2076 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

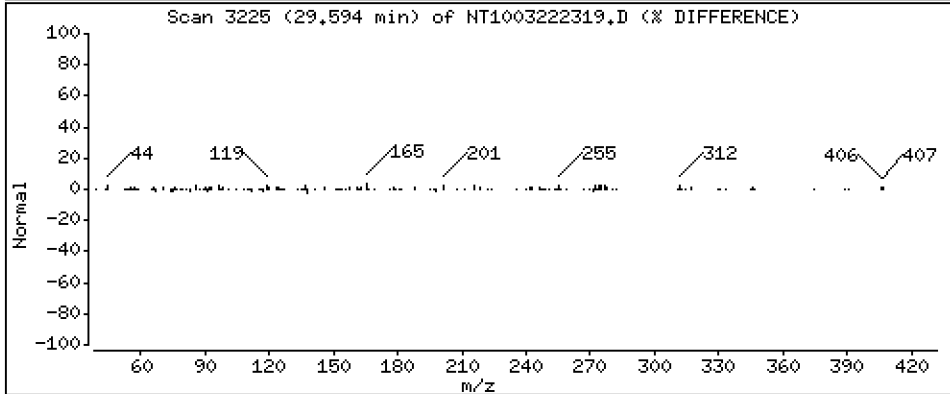
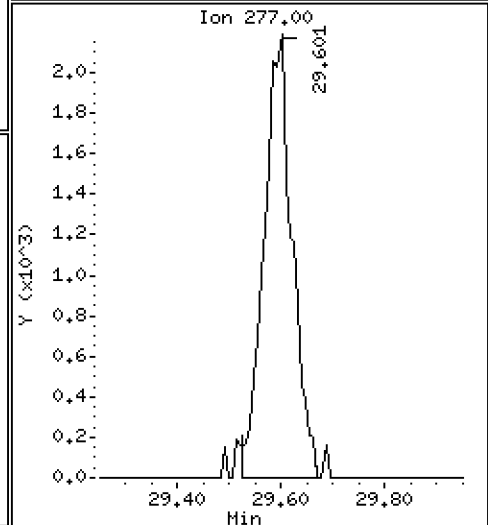
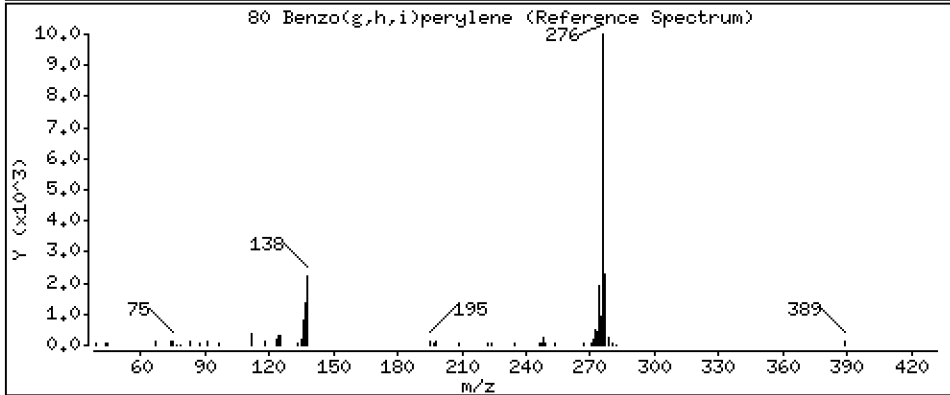
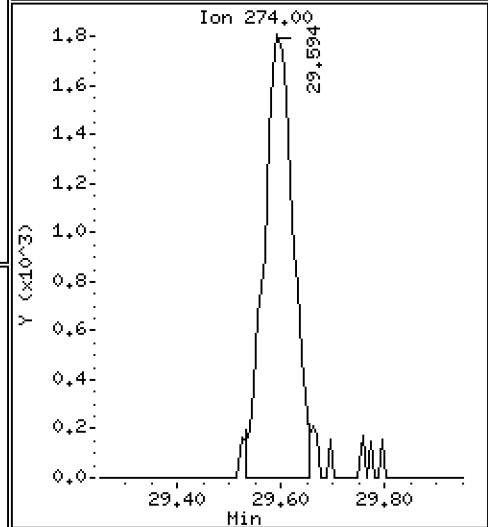
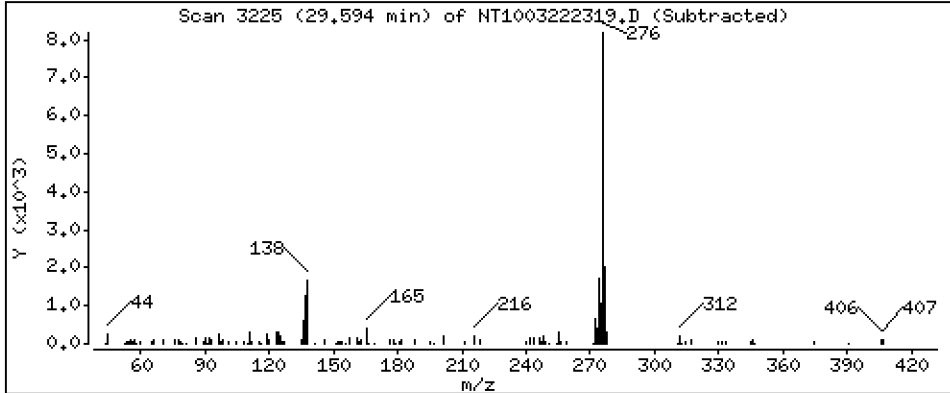
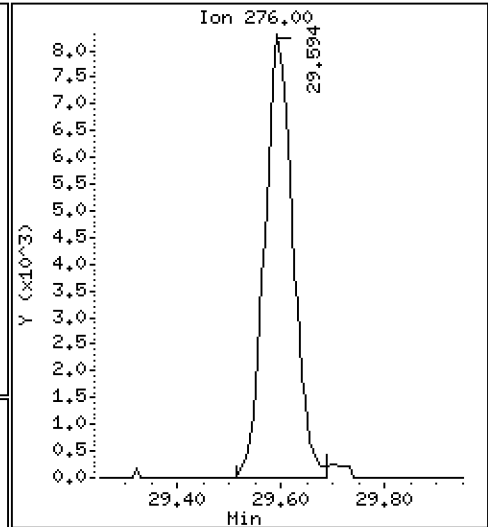
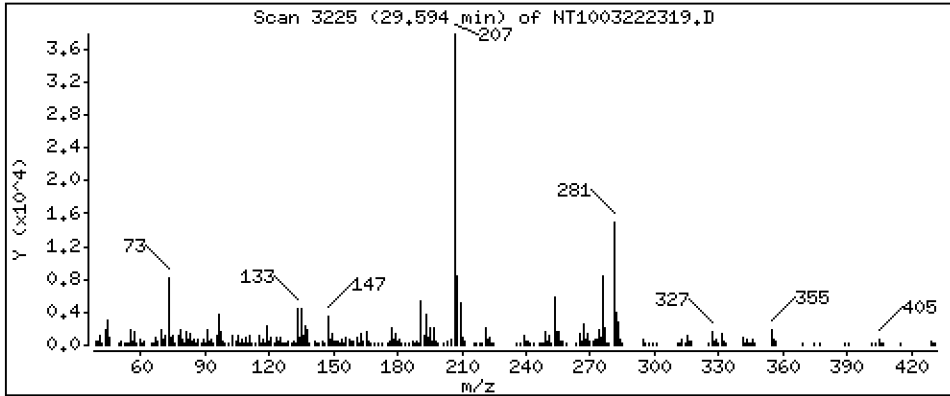
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 0,1897 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

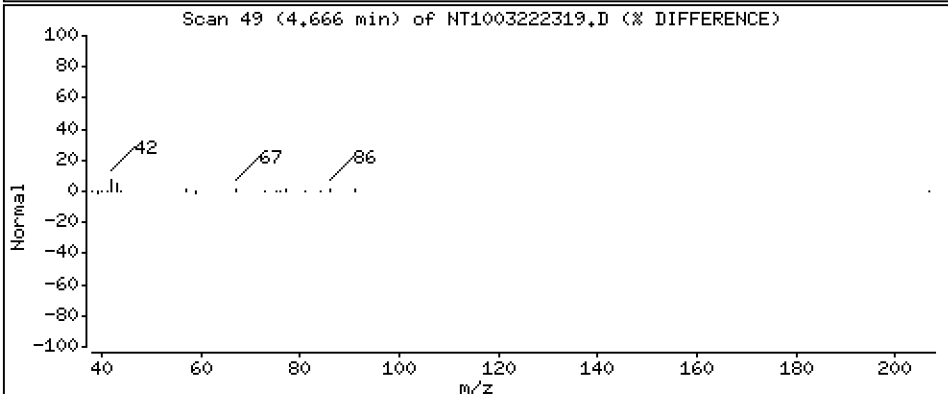
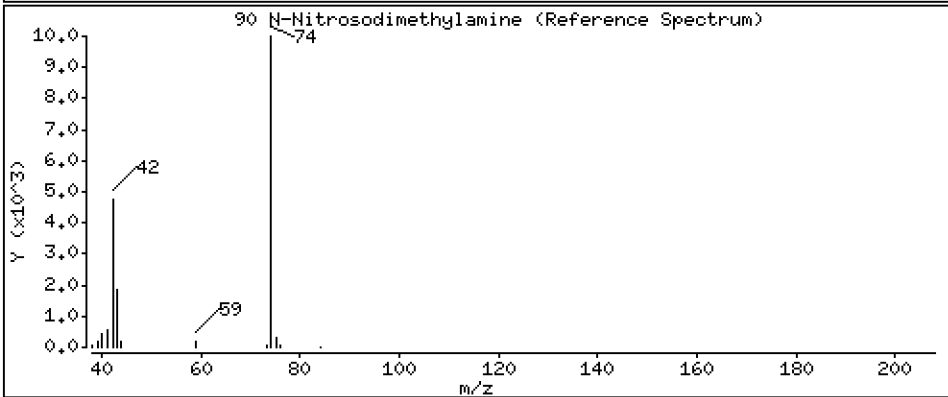
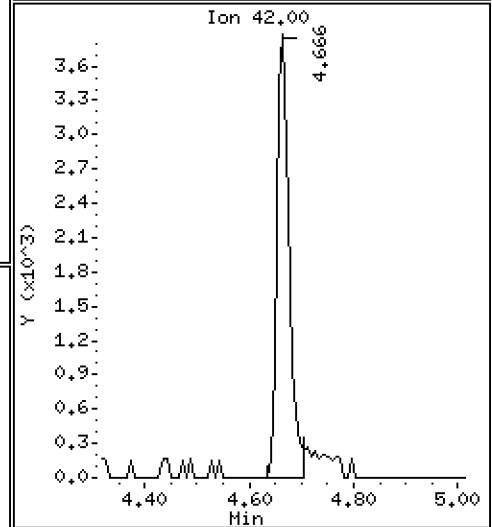
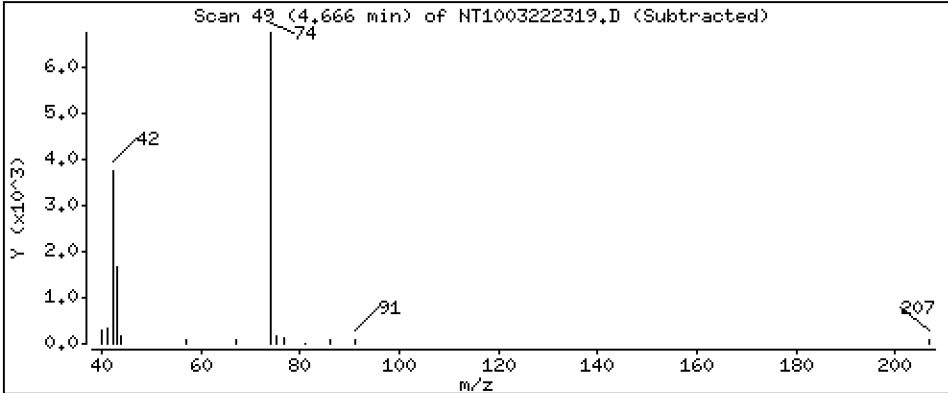
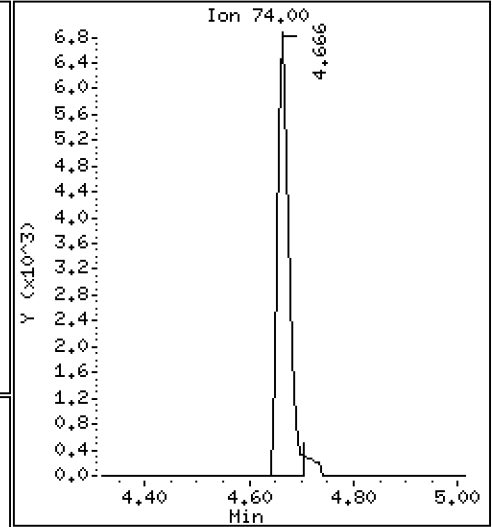
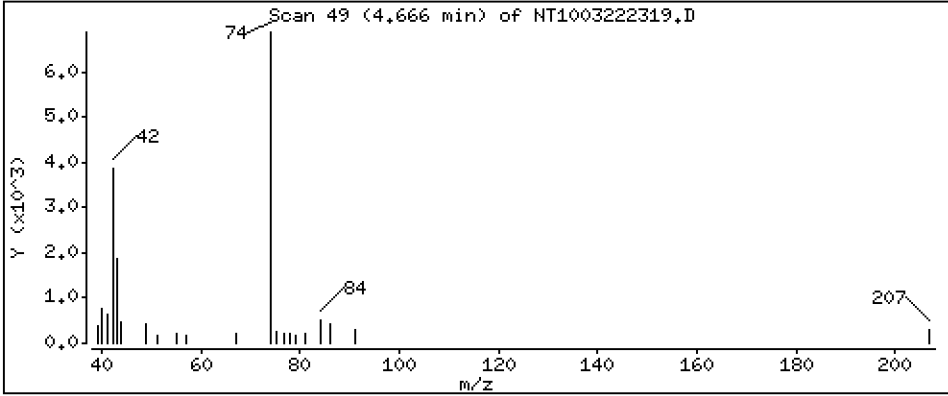
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

90 N-Nitrosodimethylamine

Concentration: 0,3705 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

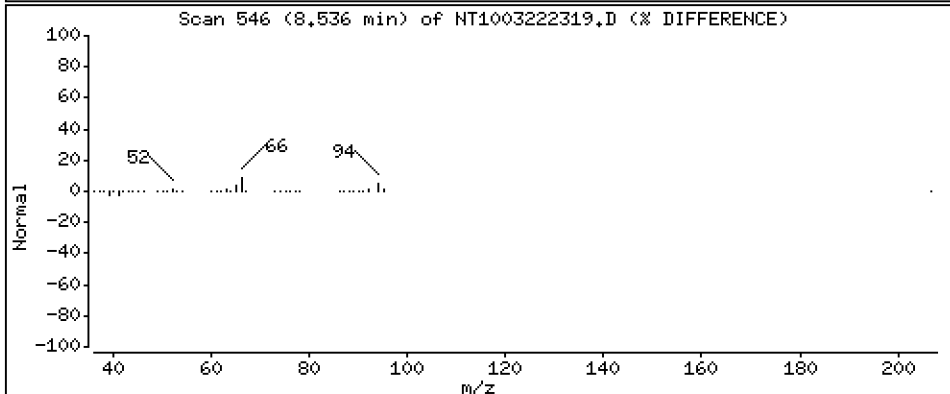
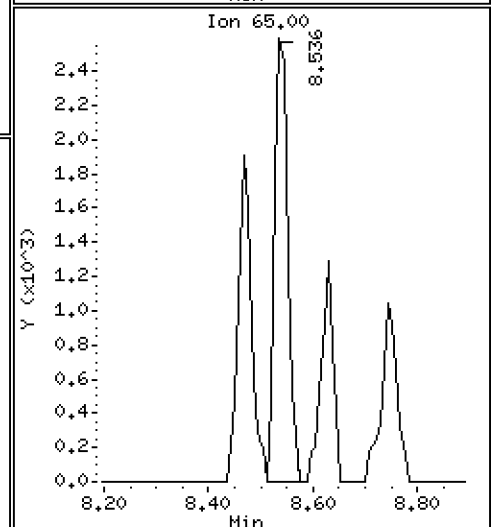
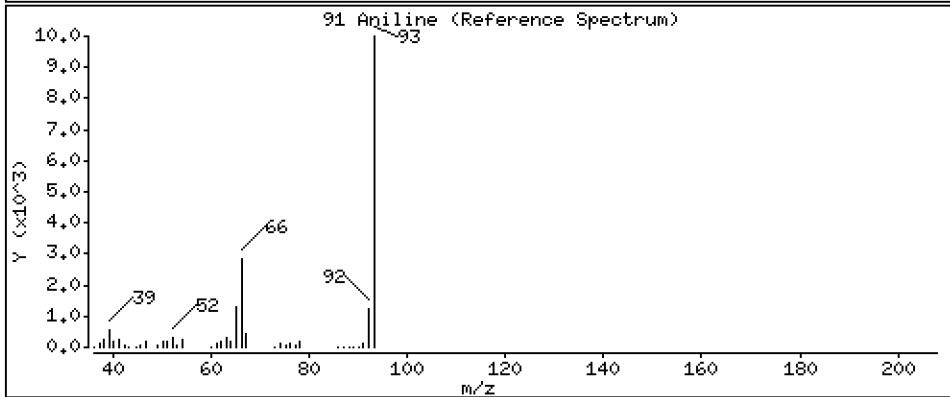
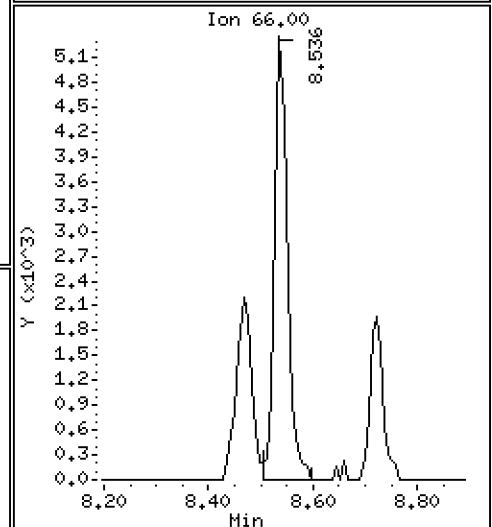
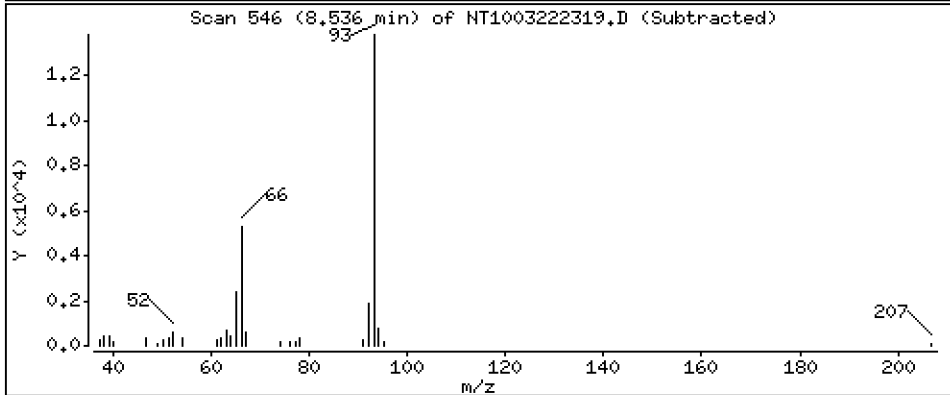
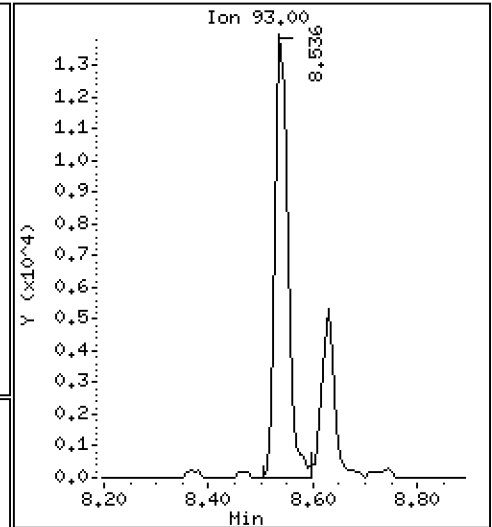
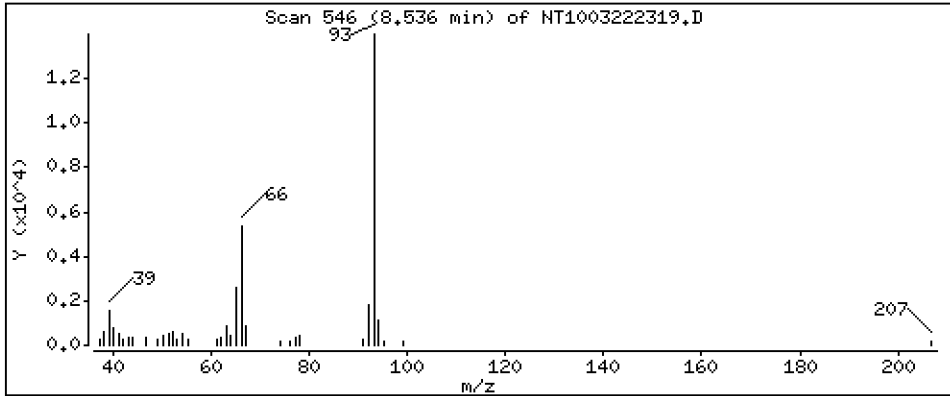
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

91 Aniline

Concentration: 0.3971 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

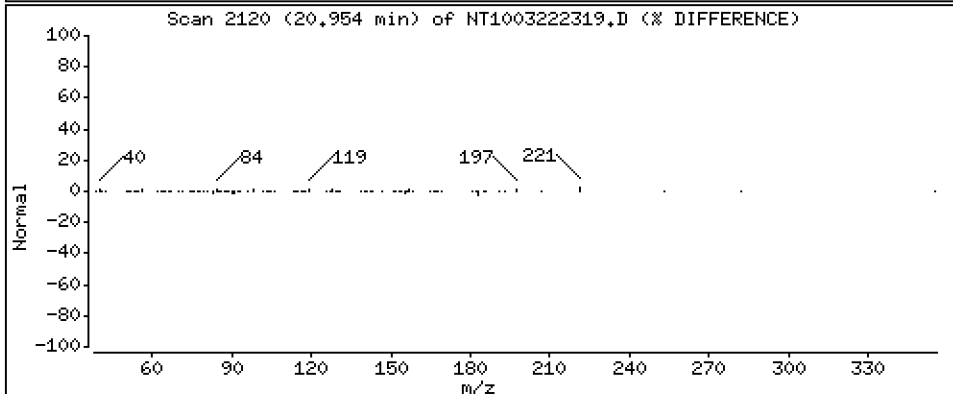
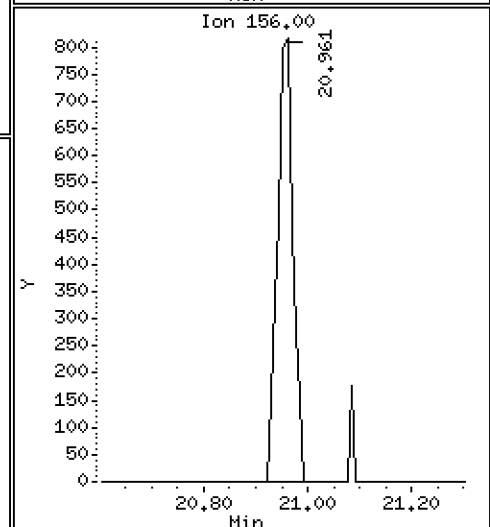
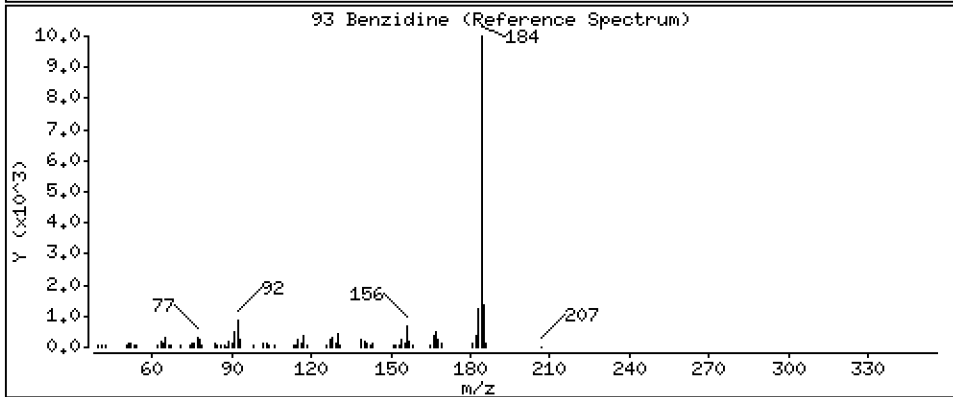
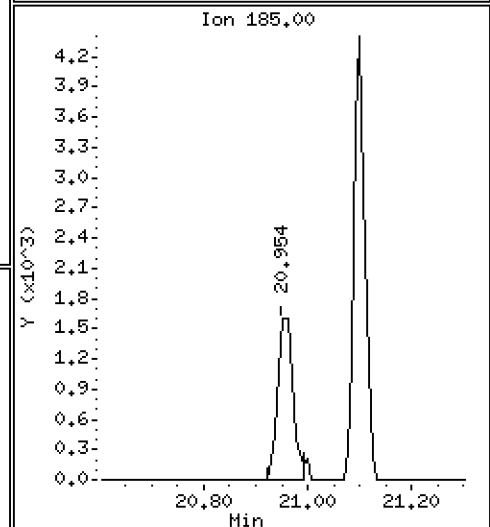
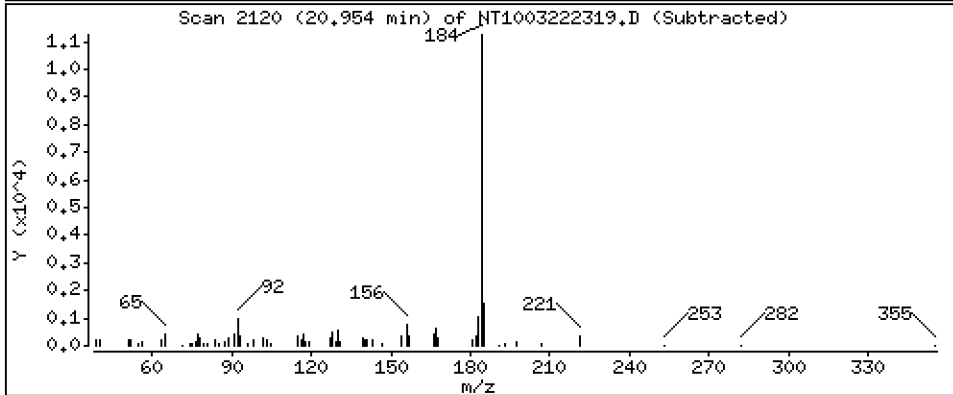
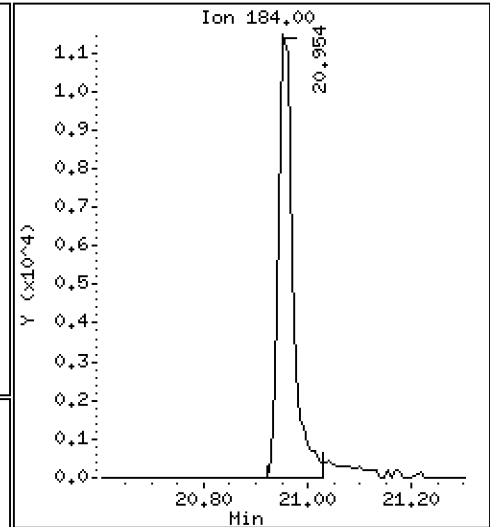
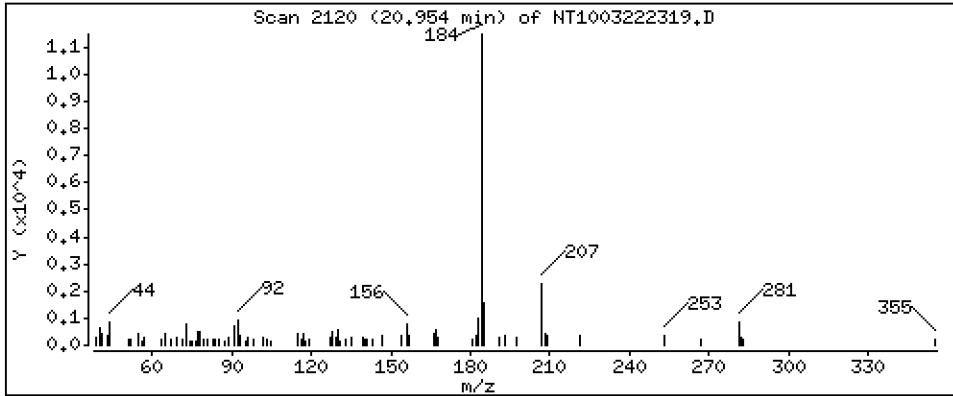
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

93 Benzidine

Concentration: 0,2928 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

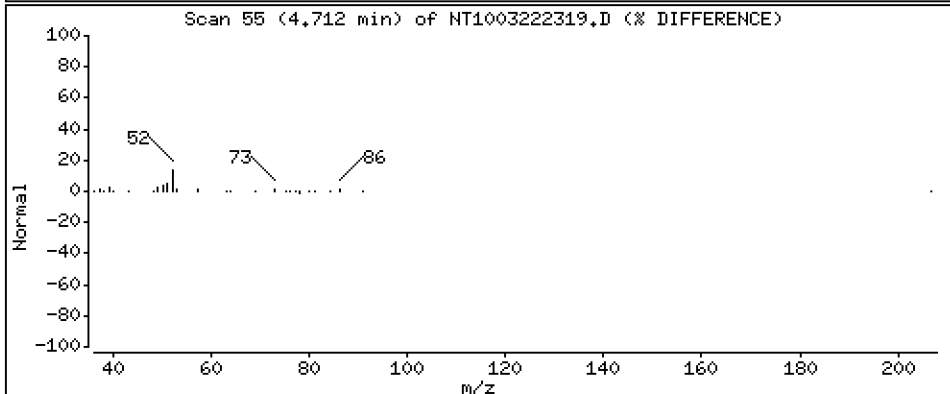
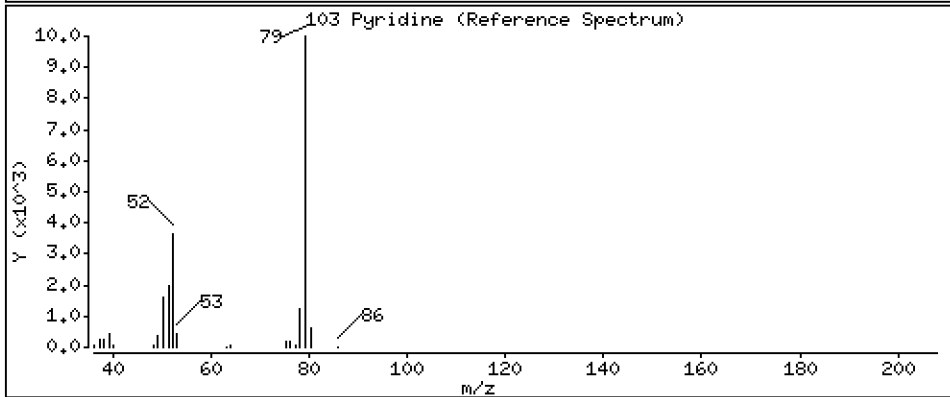
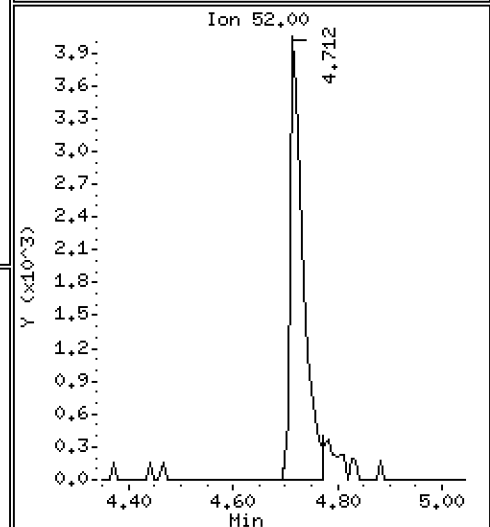
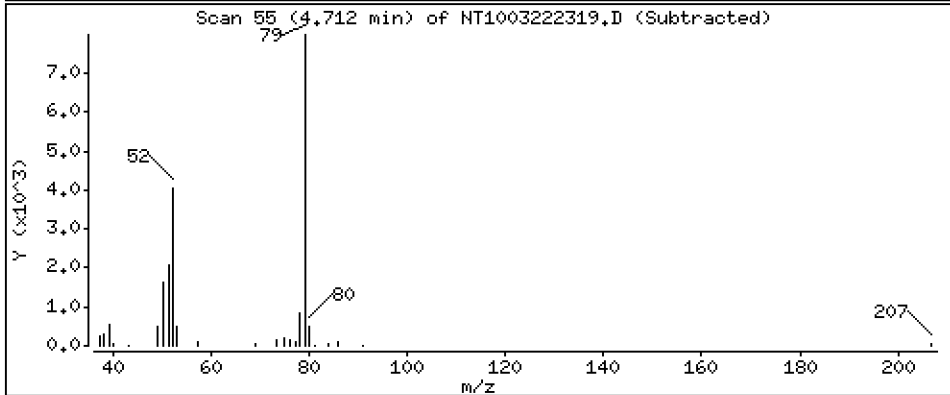
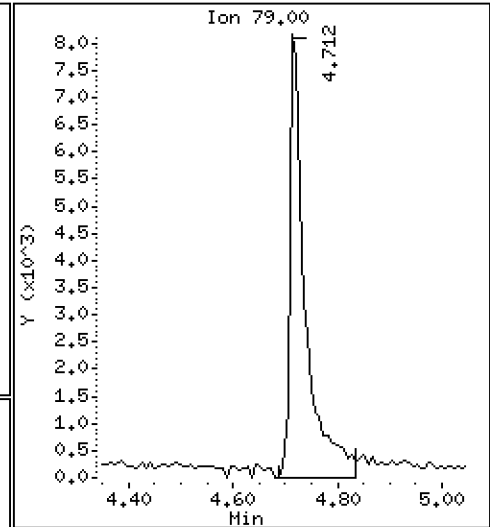
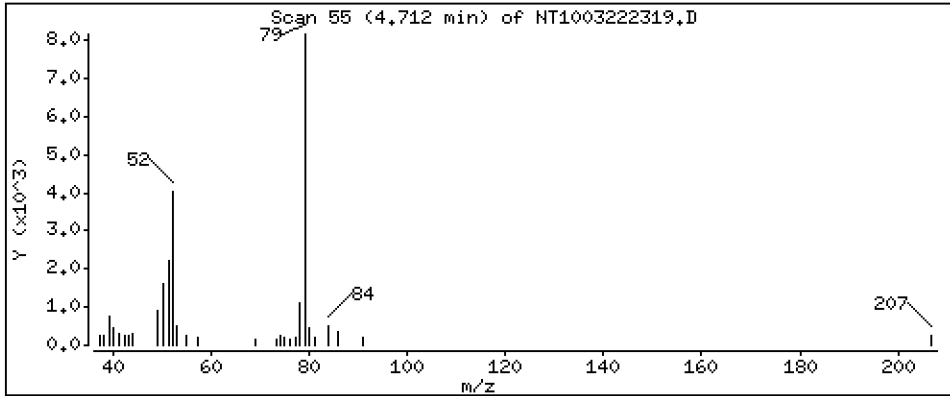
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

103 Pyridine

Concentration: 0,4289 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

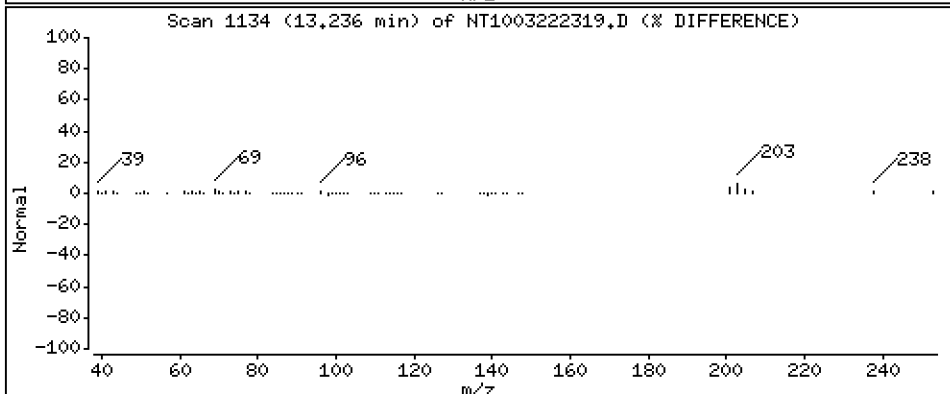
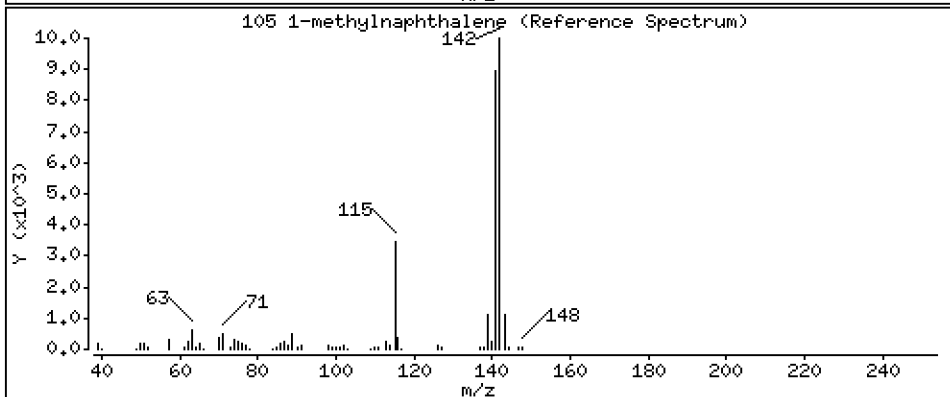
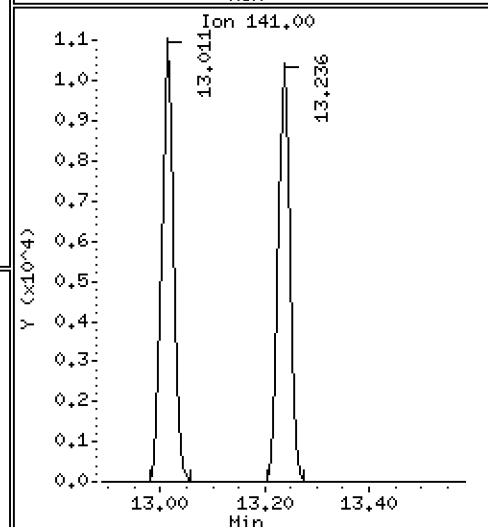
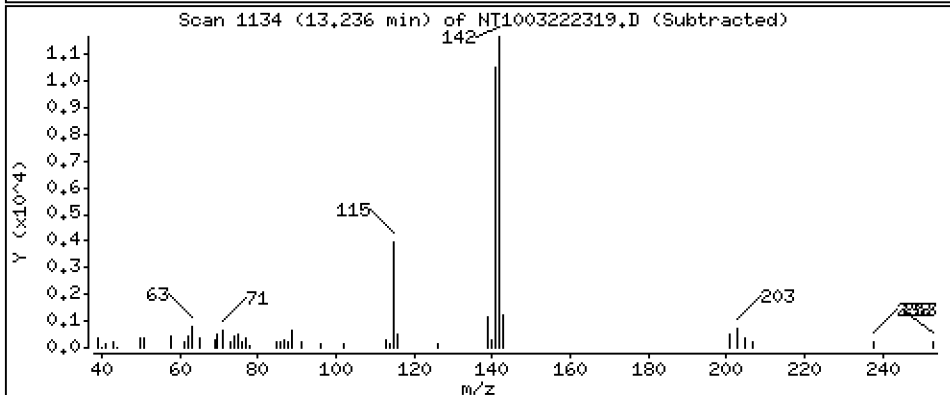
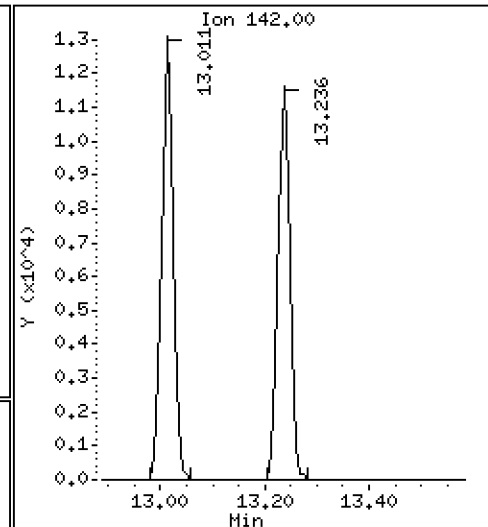
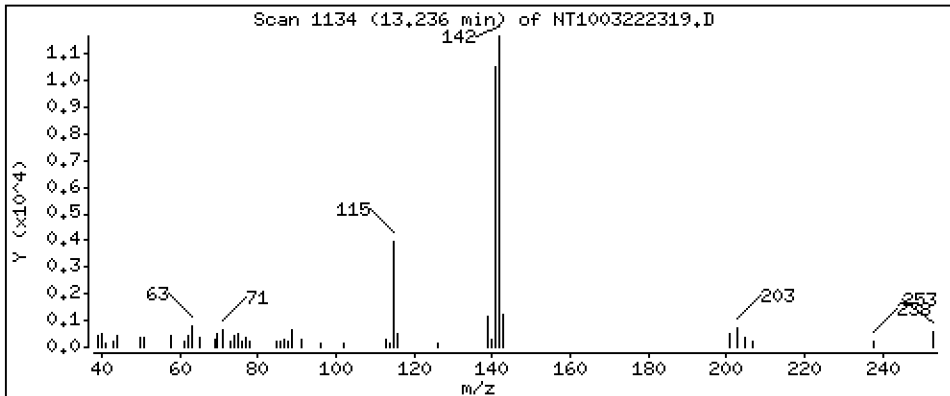
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 0,2075 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

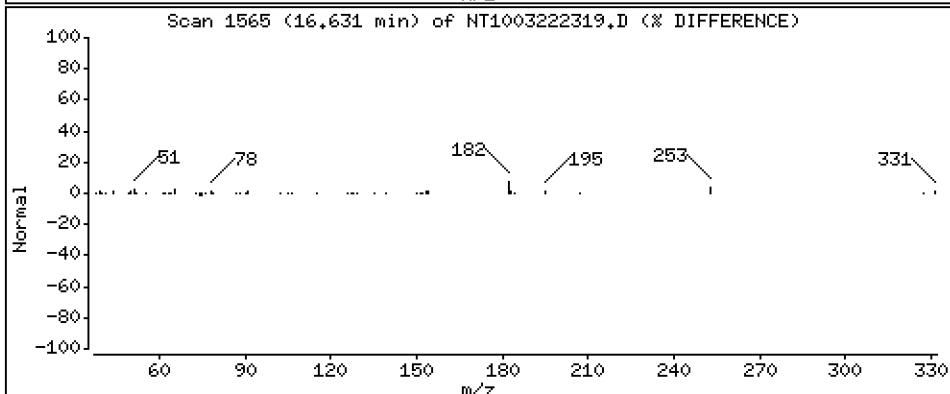
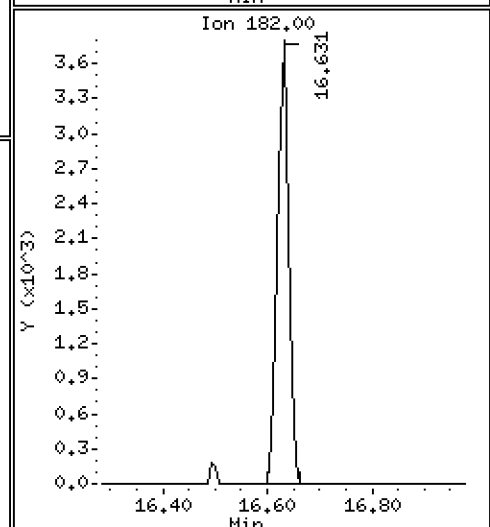
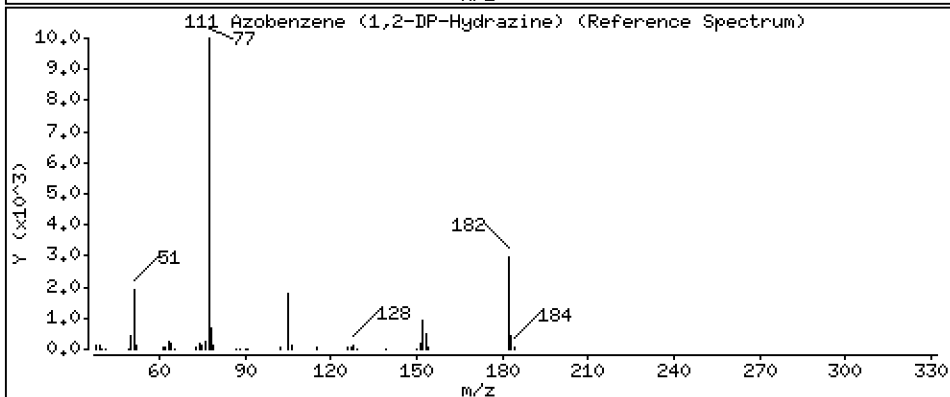
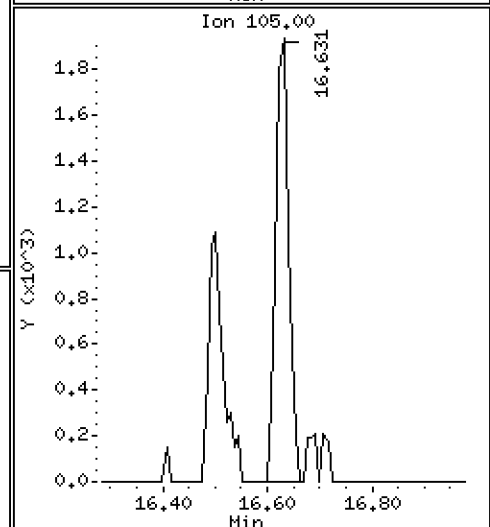
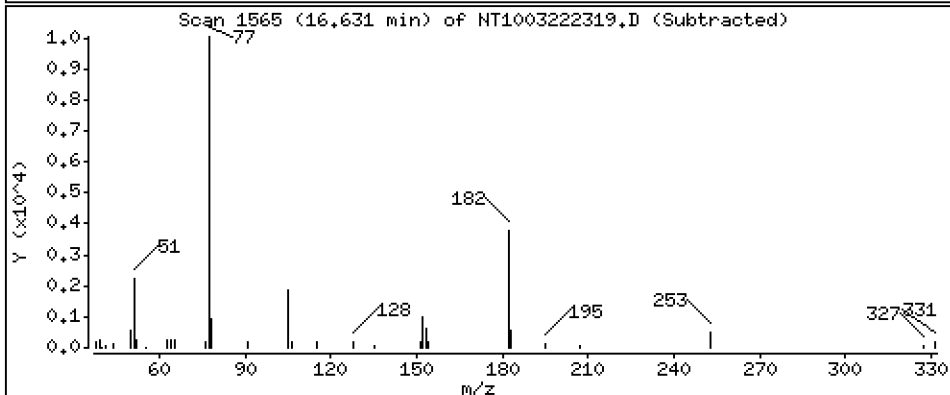
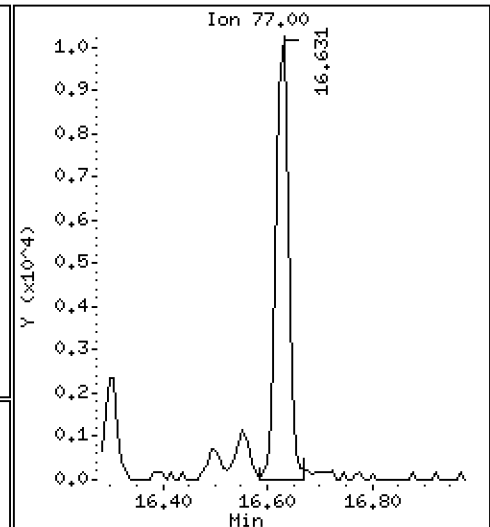
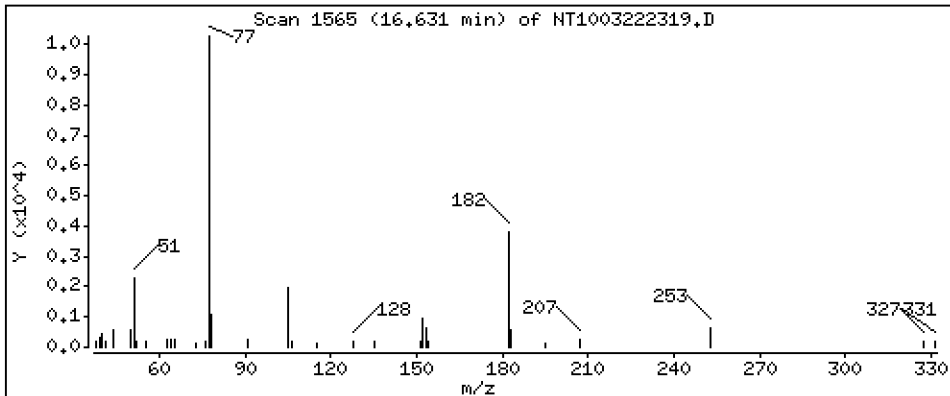
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 0,1755 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

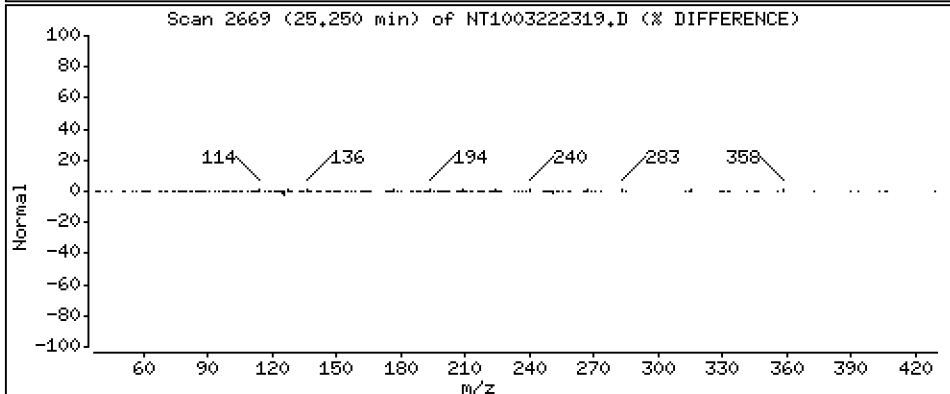
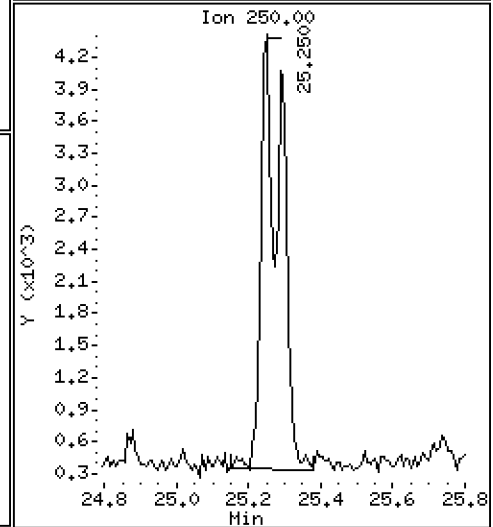
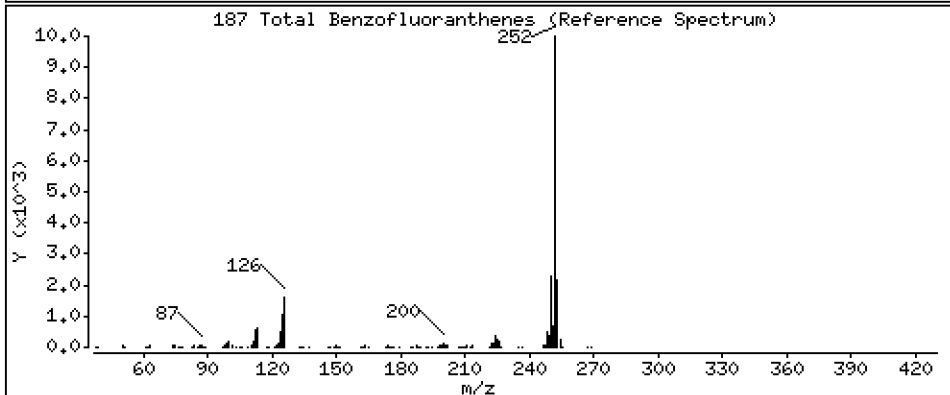
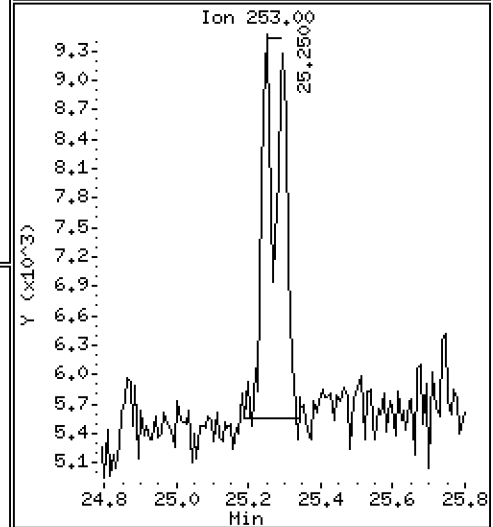
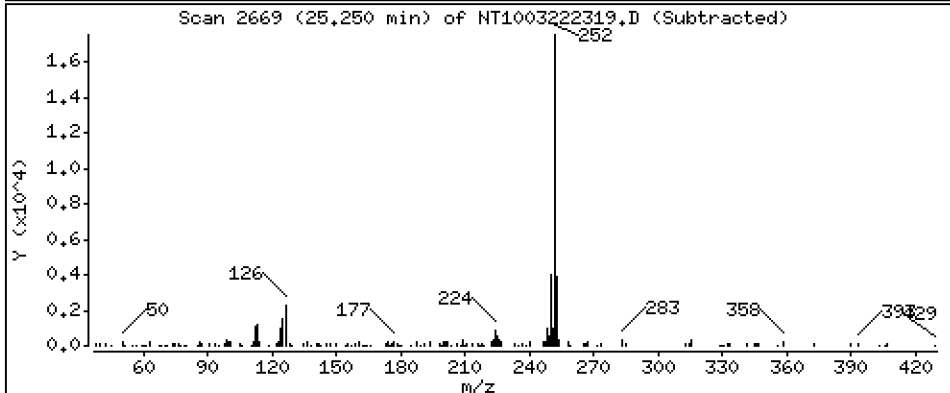
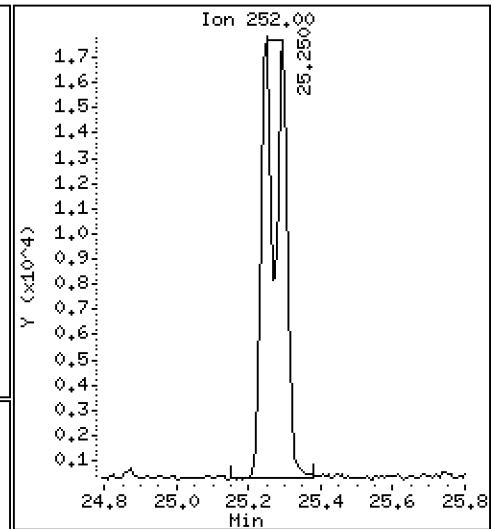
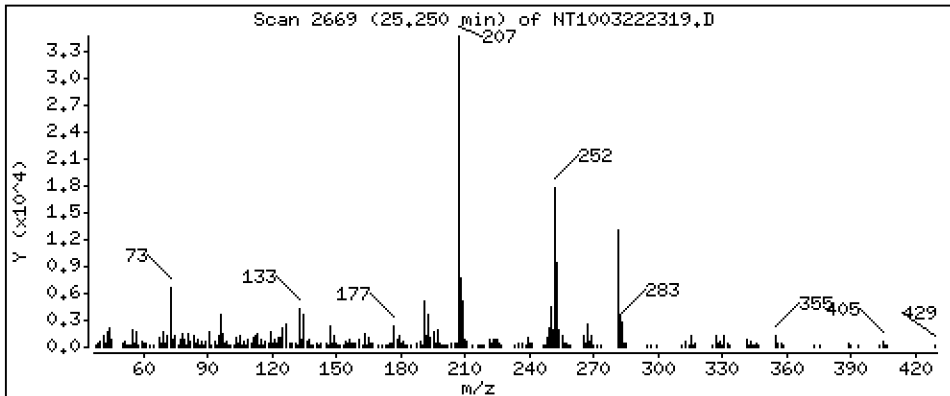
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 0,4281 ug/mL



Date : 23-MAR-2023 04:30

Client ID:

Instrument: nt10.i

Sample Info: SLC0397-LCV2

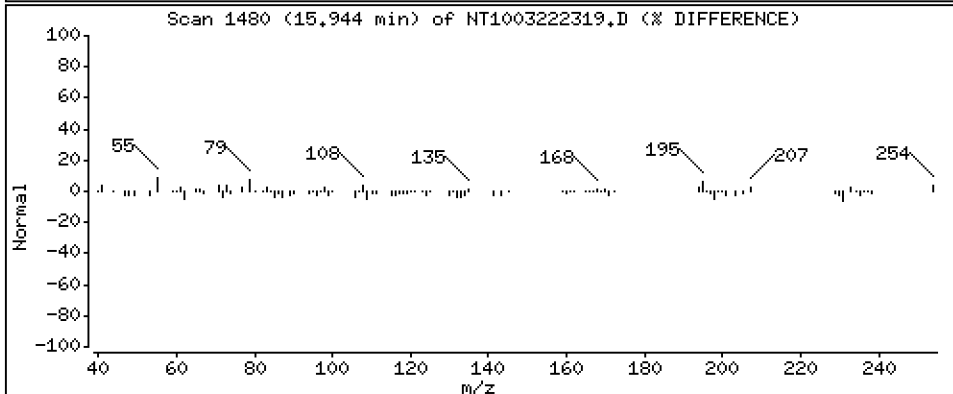
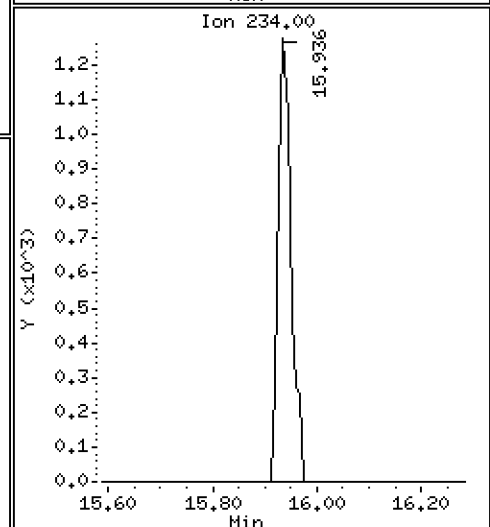
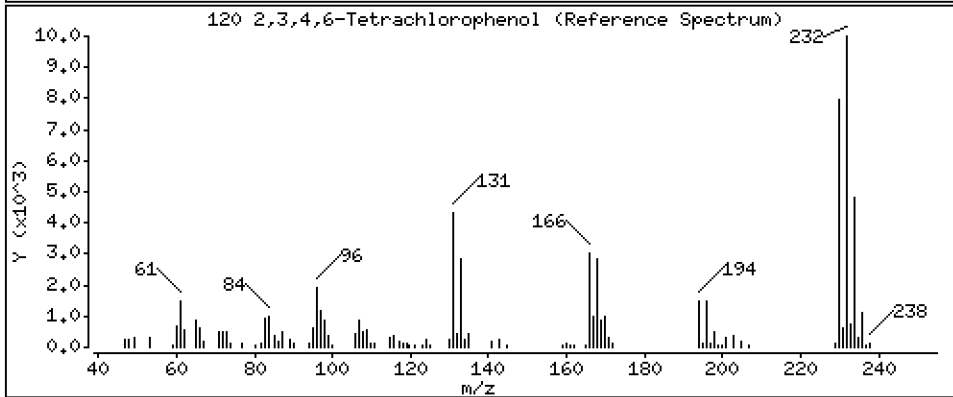
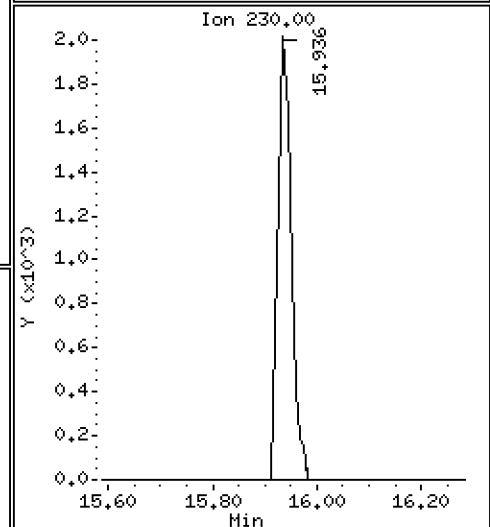
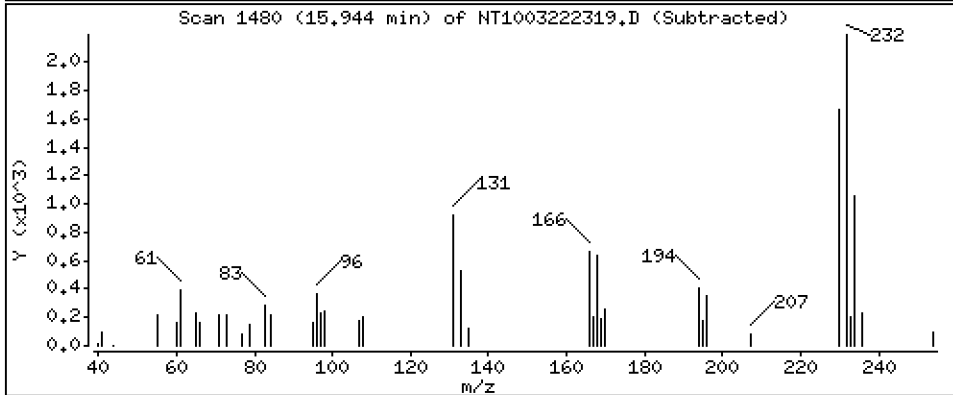
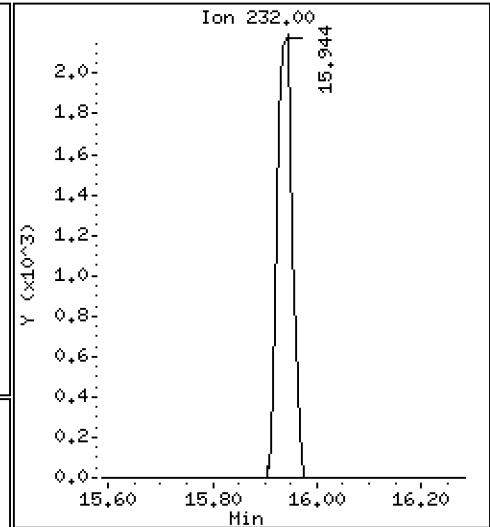
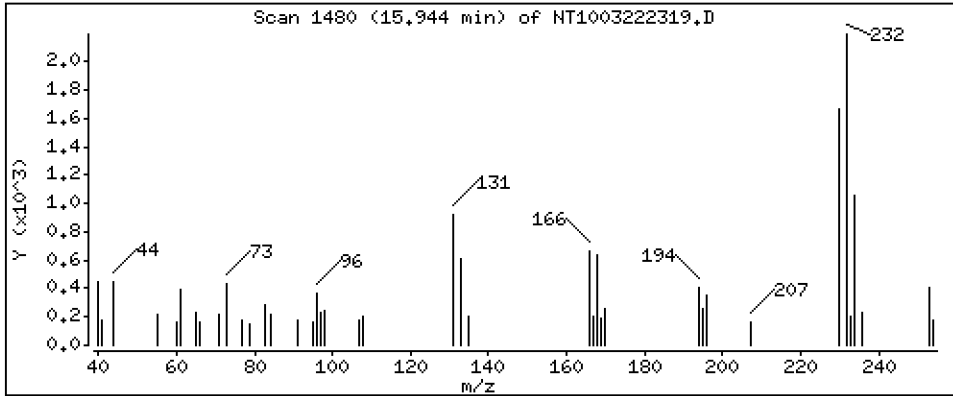
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

120 2,3,4,6-Tetrachlorophenol

Concentration: 0,1606 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230322.b\NT1003222319.D
 Lab Smp Id: SLC0397-LCV2
 Inj Date : 23-MAR-2023 04:30
 Operator : VTS
 Smp Info : SLC0397-LCV2
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt10.i\20230322.b\ABN.m
 Meth Date : 25-Mar-2023 10:11 van
 Cal Date : 16-MAR-2023 00:22
 Als bottle: 4
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: VANS-201906

Inst ID: nt10.i

Quant Type: ISTD
 Cal File: NT10031508.D

Compound Sublist: ICAL.sub

| Compounds | QUANT | SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|---------------------------------|-------|-----|--------|--------|---------|----------|----------------|--------------|
| | | | | | | | ON-COLUMN | FINAL |
| | MASS | | | | | | (ug/mL) | (ug/mL) |
| \$ 1 2-Fluorophenol | 112 | | 6.851 | 6.851 | (0.754) | 12449 | 0.30214 | 0.3021 |
| \$ 2 Phenol-d5 | 99 | | 8.443 | 8.450 | (0.929) | 15617 | 0.28893 | 0.2889 |
| 3 Phenol | 94 | | 8.466 | 8.474 | (0.932) | 10766 | 0.19167 | 0.1917 |
| \$ 5 2-Chlorophenol-d4 | 132 | | 8.721 | 8.721 | (0.960) | 13942 | 0.30206 | 0.3021 |
| 4 Bis(2-Chloroethyl)ether | 93 | | 8.628 | 8.628 | (0.950) | 9035 | 0.21688 | 0.2169 |
| 6 2-Chlorophenol | 128 | | 8.744 | 8.752 | (0.963) | 9283 | 0.19311 | 0.1931 |
| 7 1,3-Dichlorobenzene | 146 | | 9.015 | 9.022 | (0.992) | 10592 | 0.20841 | 0.2084 |
| * 8 1,4-Dichlorobenzene-d4 | 152 | | 9.085 | 9.085 | (1.000) | 136247 | 4.00000 | |
| 9 1,4-Dichlorobenzene | 146 | | 9.116 | 9.116 | (1.003) | 9814 | 0.19990 | 0.1999 |
| \$ 10 1,2-Dichlorobenzene-d4 | 152 | | 9.442 | 9.441 | (1.039) | 6870 | 0.20726 | 0.2073 |
| 12 1,2-Dichlorobenzene | 146 | | 9.465 | 9.473 | (1.042) | 10082 | 0.20866 | 0.2087 |
| 11 Benzyl alcohol | 108 | | 9.356 | 9.356 | (1.030) | 5087 | 0.19295 | 0.1930 |
| 14 2,2'-oxybis(1-Chloropropane) | 121 | | 9.659 | 9.659 | (1.063) | 2840 | 0.20015 | 0.2002 (M) |
| 13 2-Methylphenol | 108 | | 9.589 | 9.589 | (1.056) | 7722 | 0.18859 | 0.1886 |
| 17 Hexachloroethane | 117 | | 10.063 | 10.063 | (1.108) | 2697 | 0.13389 | 0.1339 |
| 16 N-Nitroso-di-n-propylamine | 70 | | 9.915 | 9.915 | (1.091) | 5914 | 0.18292 | 0.1829 |
| 15 4-Methylphenol | 108 | | 9.861 | 9.861 | (1.085) | 8096 | 0.18766 | 0.1877 |
| \$ 18 Nitrobenzene-d5 | 82 | | 10.179 | 10.179 | (0.880) | 9421 | 0.19414 | 0.1941 |
| 19 Nitrobenzene | 77 | | 10.218 | 10.218 | (0.883) | 8578 | 0.18013 | 0.1801 |
| 20 Isophorone | 82 | | 10.668 | 10.668 | (0.922) | 10843 | 0.17798 | 0.1780 |
| 21 2-Nitrophenol | 139 | | 10.850 | 10.850 | (0.938) | 5229 | 0.22580 | 0.2258 |
| 22 2,4-Dimethylphenol | 107 | | 10.901 | 10.901 | (0.942) | 16905 | 0.38648 | 0.3865 |
| 23 Bis(2-Chloroethoxy)methane | 93 | | 11.096 | 11.096 | (0.959) | 8502 | 0.20893 | 0.2089 |
| 24 Benzoic acid | 105 | | 11.003 | 11.105 | (0.951) | 10120 | 0.41639 | 0.4164 |
| 25 2,4-Dichlorophenol | 162 | | 11.308 | 11.308 | (0.977) | 14071 | 0.40199 | 0.4020 |
| 26 1,2,4-Trichlorobenzene | 180 | | 11.487 | 11.487 | (0.993) | 9371 | 0.22807 | 0.2281 |
| * 27 Naphthalene-d8 | 136 | | 11.572 | 11.572 | (1.000) | 480759 | 4.00000 | |
| 28 Naphthalene | 128 | | 11.611 | 11.618 | (1.003) | 26482 | 0.20793 | 0.2079 |
| 29 4-Chloroaniline | 127 | | 11.750 | 11.750 | (1.015) | 18795 | 0.37828 | 0.3783 |
| 30 Hexachlorobutadiene | 225 | | 11.974 | 11.981 | (1.035) | 5282 | 0.21939 | 0.2194 |
| 31 4-Chloro-3-methylphenol | 107 | | 12.717 | 12.717 | (1.099) | 13262 | 0.34999 | 0.3500 |
| 32 2-Methylnaphthalene | 142 | | 13.011 | 13.018 | (1.124) | 19639 | 0.21367 | 0.2137 |
| 33 Hexachlorocyclopentadiene | 237 | | 13.483 | 13.483 | (0.887) | 164 | 0.00676 | 0.006755 (H) |

| Compounds | QUANT SIG | | | | | CONCENTRATIONS | |
|-----------------------------------|-----------|--------|--------|---------|----------|----------------------|------------------|
| | MASS | RT | EXP RT | REL RT | RESPONSE | ON-COLUMN (ug/mL) | FINAL (ug/mL) |
| 34 2,4,6-Trichlorophenol | 196 | 13.638 | 13.638 | (0.897) | 10131 | 0.39076 | 0.3908 |
| 35 2,4,5-Trichlorophenol | 196 | 13.715 | 13.715 | (0.902) | 10922 | 0.37913 | 0.3791 |
| § 36 2-Fluorobiphenyl | 172 | 13.800 | 13.800 | (0.908) | 22088 | 0.21286 | 0.2129 |
| 37 2-Chloronaphthalene | 162 | 14.009 | 14.009 | (0.922) | 17170 | 0.20436 | 0.2044 |
| 38 2-Nitroaniline | 65 | 14.272 | 14.272 | (0.939) | 7095 | 0.30062 | 0.3006 |
| 39 Dimethylphthalate | 163 | 14.706 | 14.706 | (0.967) | 18091 | 0.21230 | 0.2123 |
| 40 Acenaphthylene | 152 | 14.884 | 14.884 | (0.979) | 27205 | 0.20779 | 0.2078 |
| 41 2,6-Dinitrotoluene | 165 | 14.845 | 14.845 | (0.977) | 7159 | 0.38889 | 0.3889 |
| * 42 Acenaphthene-d10 | 164 | 15.201 | 15.201 | (1.000) | 262317 | 4.00000 | |
| 43 3-Nitroaniline | 138 | 15.132 | 15.131 | (0.995) | 6137 | 0.29536 | 0.2954 |
| 44 Acenaphthene | 153 | 15.263 | 15.263 | (1.004) | 16698 | 0.20645 | 0.2064 |
| 45 2,4-Dinitrophenol | 184 | 15.348 | 15.348 | (1.010) | 1058 | 0.09523 | 0.09523 |
| 46 Dibenzofuran | 168 | 15.595 | 15.595 | (1.026) | 24392 | 0.20451 | 0.2045 |
| 47 4-Nitrophenol | 109 | 15.472 | 15.464 | (1.018) | 2304 | 0.17630 | 0.1763 (M) |
| 48 2,4-Dinitrotoluene | 165 | 15.657 | 15.657 | (1.030) | 9017 | 0.32385 | 0.3239 |
| 50 Diethylphthalate | 149 | 16.168 | 16.175 | (1.064) | 20952 | 0.25059 | 0.2506 |
| 49 Fluorene | 166 | 16.314 | 16.314 | (1.073) | 19868 | 0.21173 | 0.2117 |
| 51 4-Chlorophenyl-phenylether | 204 | 16.299 | 16.306 | (1.072) | 9791 | 0.21942 | 0.2194 |
| 52 4-Nitroaniline | 138 | 16.407 | 16.406 | (1.079) | 5751 | 0.30713 | 0.3071 |
| 53 4,6-Dinitro-2-methylphenol | 198 | 16.499 | 16.507 | (0.904) | 4835 | 0.33061 | 0.3306 |
| 54 N-Nitrosodiphenylamine | 169 | 16.553 | 16.561 | (0.907) | 13154 | 0.20335 | 0.2033 |
| § 55 2,4,6-Tribromophenol | 330 | 16.846 | 16.846 | (1.108) | 3480 | 0.28198 | 0.2820 |
| 56 4-Bromophenyl-phenylether | 248 | 17.309 | 17.316 | (0.948) | 5901 | 0.21806 | 0.2181 |
| 57 Hexachlorobenzene | 284 | 17.626 | 17.634 | (0.966) | 7304 | 0.25743 | 0.2574 |
| 58 Pentachlorophenol | 266 | 17.998 | 17.990 | (0.986) | 4172 | 0.24852 | 0.2485 |
| * 59 Phenanthrene-d10 | 188 | 18.253 | 18.260 | (1.000) | 483839 | 4.00000 | |
| 60 Phenanthrene | 178 | 18.299 | 18.307 | (1.003) | 27659 | 0.20965 | 0.2096 |
| 61 Anthracene | 178 | 18.400 | 18.400 | (1.008) | 25399 | 0.20069 | 0.2007 |
| 62 Carbazole | 167 | 18.733 | 18.732 | (1.026) | 22588 | 0.19918 | 0.1992 |
| 63 Di-n-butylphthalate | 149 | 19.545 | 19.545 | (1.071) | 36410 | 0.23881 | 0.2388 |
| 64 Fluoranthene | 202 | 20.713 | 20.713 | (0.887) | 32088 | 0.18011 | 0.1801 |
| 65 Pyrene | 202 | 21.139 | 21.139 | (0.905) | 32728 | 0.17908 | 0.1791 |
| § 66 Terphenyl-d14 | 244 | 21.433 | 21.433 | (0.918) | 27249 | 0.19854 | 0.1985 |
| 67 Butylbenzylphthalate | 149 | 22.378 | 22.377 | (0.958) | 13847 | 0.21572 | 0.2157 |
| 68 Benzo(a)anthracene | 228 | 23.322 | 23.322 | (0.999) | 33588 | 0.21463 | 0.2146 |
| * 69 Chrysene-d12 | 240 | 23.353 | 23.353 | (1.000) | 443368 | 4.00000 | |
| 70 3,3'-Dichlorobenzidine | 252 | 23.284 | 23.283 | (0.997) | 32318 | 0.64472 | 0.6447 |
| 71 Chrysene | 228 | 23.392 | 23.399 | (1.002) | 31246 | 0.20437 | 0.2044 |
| 72 bis(2-Ethylhexyl)phthalate | 149 | 23.415 | 23.415 | (0.959) | 18609 | 0.18724 | 0.1872 |
| * 134 Di-n-octylphthalate-d4 | 153 | 24.422 | 24.421 | (1.000) | 679545 | 4.00000 | |
| 73 Di-n-octylphthalate | 149 | 24.437 | 24.437 | (1.001) | 35906 | 0.20191 | 0.2019 |
| 74 Benzo(b)fluoranthene | 252 | 25.250 | 25.250 | (0.969) | 32510 | 0.19420 | 0.1942 |
| 75 Benzo(k)fluoranthene | 252 | 25.296 | 25.296 | (0.971) | 38918 | 0.22895 | 0.2290 |
| 76 Benzo(a)pyrene | 252 | 25.924 | 25.923 | (0.995) | 32284 | 0.21570 | 0.2157 |
| * 77 Perylene-d12 | 264 | 26.048 | 26.040 | (1.000) | 516437 | 4.00000 | |
| 78 Indeno(1,2,3-cd)pyrene | 276 | 28.785 | 28.793 | (1.105) | 38477 | 0.20207 | 0.2021 |
| 79 Dibenzo(a,h)anthracene | 278 | 28.809 | 28.816 | (1.106) | 32816 | 0.20758 | 0.2076 |
| 80 Benzo(g,h,i)perylene | 276 | 29.593 | 29.601 | (1.136) | 31258 | 0.18969 | 0.1897 |
| 90 N-Nitrosodimethylamine | 74 | 4.665 | 4.665 | (0.514) | 9740 | 0.37053 | 0.3705 |
| 91 Aniline | 93 | 8.536 | 8.543 | (0.940) | 22857 | 0.39715 | 0.3971 |
| 93 Benzidine | 184 | 20.953 | 20.953 | (0.897) | 21428 | 0.29282 | 0.2928 |
| 103 Pyridine | 79 | 4.712 | 4.696 | (0.519) | 17313 | 0.42885 | 0.4289 |
| 105 1-methylnaphthalene | 142 | 13.235 | 13.235 | (1.144) | 17473 | 0.20749 | 0.2075 |
| 111 Azobenzene (1,2-DP-Hydrazine) | 77 | 16.630 | 16.630 | (1.094) | 16387 | 0.17545 | 0.1755 |

| Compounds | QUANT SIG | | CONCENTRATIONS | | | | | |
|-------------------------------|-----------|--|----------------|--------|---------|----------|----------------------|------------------|
| | MASS | | RT | EXP RT | REL RT | RESPONSE | ON-COLUMN (ug/mL) | FINAL (ug/mL) |
| ===== | ===== | | ===== | ===== | ===== | ===== | ===== | ===== |
| 187 Total Benzofluoranthenes | 252 | | 25.250 | 25.296 | (0.969) | 69195 | 0.42810 | 0.4281 |
| 120 2,3,4,6-Tetrachlorophenol | 232 | | 15.943 | 15.935 | (1.049) | 4240 | 0.16055 | 0.1606 |

QC Flag Legend

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

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 23-MAR-2023
 Lab File ID: NT1003222319.D Calibration Time: 03:15
 Lab Smp Id: SLC0397-LCV2
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt10.i\20230322.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|------------|---------|--------|--------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 137603 | 68802 | 275206 | 136247 | -0.99 |
| 27 Naphthalene-d8 | 494588 | 247294 | 989176 | 480759 | -2.80 |
| 42 Acenaphthene-d10 | 278674 | 139337 | 557348 | 262317 | -5.87 |
| 59 Phenanthrene-d10 | 509229 | 254615 | 1018458 | 483839 | -4.99 |
| 69 Chrysene-d12 | 462271 | 231136 | 924542 | 443368 | -4.09 |
| 134 Di-n-octylphthala | 782572 | 391286 | 1565144 | 679545 | -13.17 |
| 77 Perylene-d12 | 551153 | 275577 | 1102306 | 516437 | -6.30 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 9.09 | 8.59 | 9.59 | 9.09 | 0.00 |
| 27 Naphthalene-d8 | 11.57 | 11.07 | 12.07 | 11.57 | 0.00 |
| 42 Acenaphthene-d10 | 15.20 | 14.70 | 15.70 | 15.20 | 0.00 |
| 59 Phenanthrene-d10 | 18.26 | 17.76 | 18.76 | 18.25 | -0.04 |
| 69 Chrysene-d12 | 23.35 | 22.85 | 23.85 | 23.35 | 0.00 |
| 134 Di-n-octylphthala | 24.42 | 23.92 | 24.92 | 24.42 | 0.00 |
| 77 Perylene-d12 | 26.04 | 25.54 | 26.54 | 26.05 | 0.03 |

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

REVIEW SUMMARY FOR FILE - NT1003222319.D

Lab ID: SLC0397-LCV2
nt10.i, 20230322.b\ABN.m, 23-MAR-2023 04:30

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

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

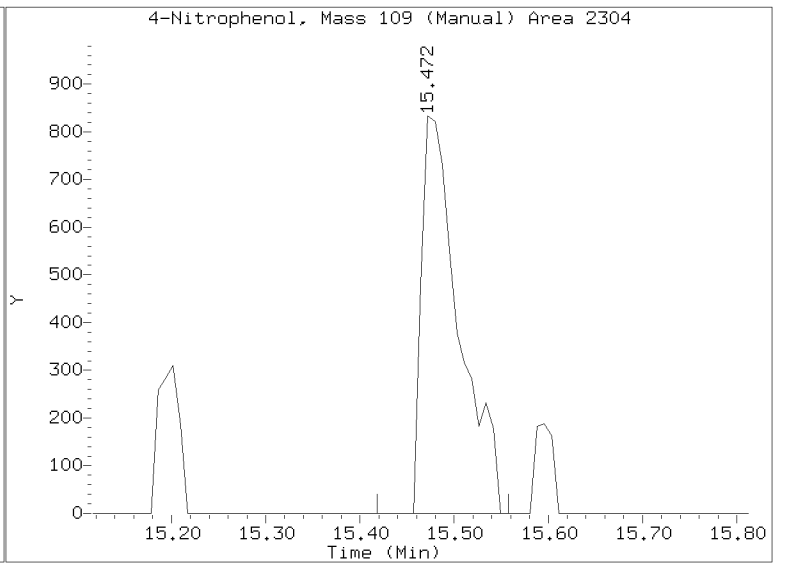
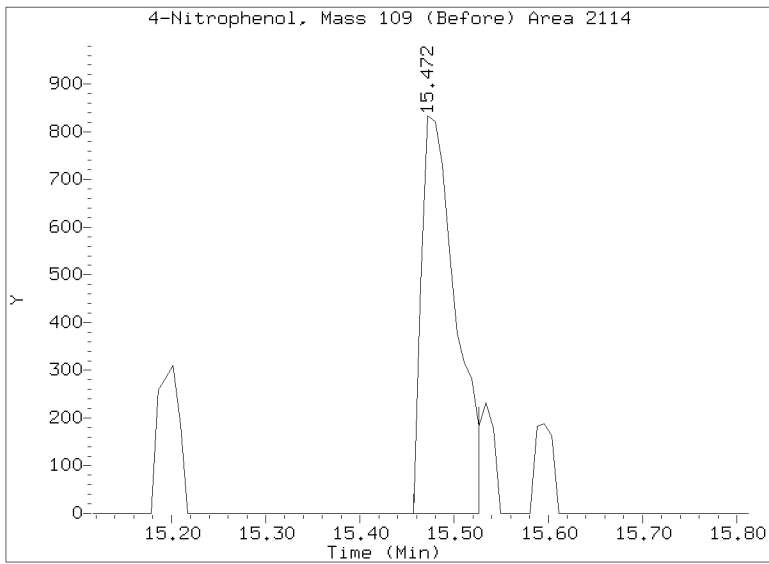
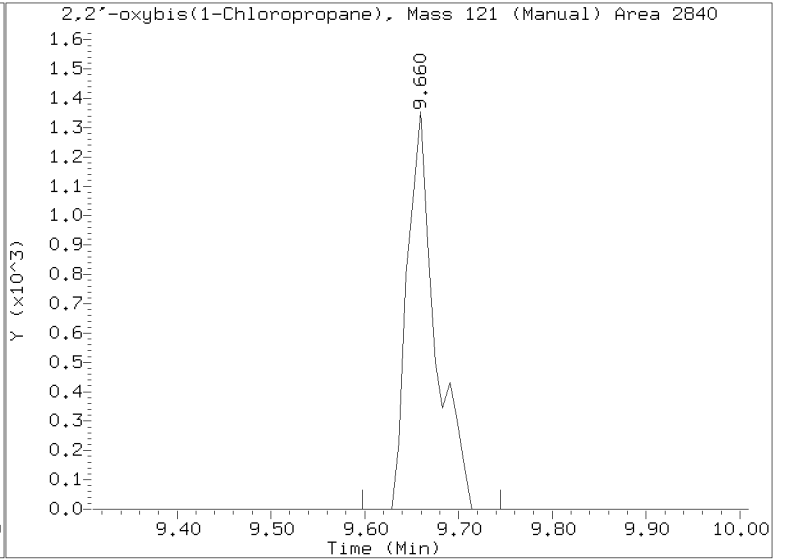
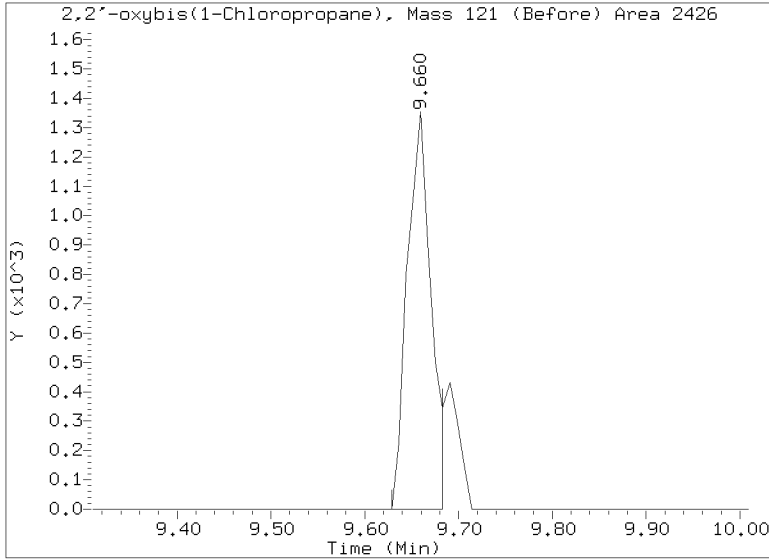
RRT check based on Ccal File: NT1003222317.D

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

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230322.b/NT1003222319.D
Injection Date: 23-MAR-2023 04:30
Lab ID:SLC0397-LCV2 Client ID:
Report Date: 03/25/2023 10:11





ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8270E

| | | | |
|-------------|----------------------------------|--------------|------------------------|
| Laboratory: | <u>Analytical Resources, LLC</u> | SDG: | <u>23A0180</u> |
| Client: | <u>Anchor QEA, LLC</u> | Project: | <u>AOC5 MR Phase 1</u> |
| Sequence: | <u>SLB0374</u> | Instrument: | <u>NT14</u> |
| | | Calibration: | <u>GC00033</u> |

| Sample Name | Lab Sample ID | Lab File ID | Matrix | Analysis Date/Time |
|-------------------|---------------|----------------|--------|--------------------|
| MS Tune | SLB0374-TUN1 | NT1423022801.D | NA | 02/28/23 11:26 |
| CAL 20 | SLB0374-CAL7 | NT1423022802.D | NA | 02/28/23 11:39 |
| CAL 10 | SLB0374-CAL6 | NT1423022803.D | NA | 02/28/23 12:15 |
| CAL 5 | SLB0374-CAL5 | NT1423022804.D | NA | 02/28/23 12:51 |
| CAL 2.5 | SLB0374-CAL4 | NT1423022805.D | NA | 02/28/23 13:28 |
| CAL 1.0 | SLB0374-CAL3 | NT1423022806.D | NA | 02/28/23 14:04 |
| CAL 0.5 | SLB0374-CAL2 | NT1423022807.D | NA | 02/28/23 14:40 |
| CAL 0.2 | SLB0374-CAL1 | NT1423022808.D | NA | 02/28/23 15:16 |
| Initial Cal Blank | SLB0374-ICB1 | NT1423022811.D | NA | 02/28/23 17:04 |
| SCV 5.0 | SLB0374-SCV1 | NT1423022812.D | NA | 02/28/23 17:41 |
| ABN 5 | SLB0374-ICV1 | NT1423022813.D | NA | 03/01/23 08:50 |
| ABN 5 | SLB0374-ICV2 | NT1423022821.D | NA | 03/01/23 13:39 |
| ABN 0.2 | SLB0374-LCV1 | NT1423022823.D | NA | 03/01/23 14:51 |
| ABN 0.5 | SLB0374-LCV2 | NT1423022825.D | NA | 03/01/23 16:04 |
| Blank | BLA0557-BLK1 | NT1423022826.D | Solid | 03/01/23 16:40 |
| LCS | BLA0557-BS1 | NT1423022827.D | Solid | 03/01/23 17:16 |
| LCS Dup | BLA0557-BSD1 | NT1423022828.D | Solid | 03/01/23 17:52 |
| Reference | BLA0557-SRM1 | NT1423022829.D | Solid | 03/01/23 18:28 |
| ZZZZZ | 23A0179-01 | NT1423022830.D | Solid | 03/01/23 19:04 |
| ZZZZZ | 23A0179-02 | NT1423022831.D | Solid | 03/01/23 19:40 |
| ZZZZZ | 23A0179-03 | NT1423022832.D | Solid | 03/01/23 20:16 |
| ZZZZZ | 23A0179-04 | NT1423022833.D | Solid | 03/01/23 20:52 |
| ZZZZZ | 23A0179-05 | NT1423022834.D | Solid | 03/01/23 21:28 |
| ZZZZZ | 23A0179-06 | NT1423022835.D | Solid | 03/01/23 22:04 |
| ABN 5 | SLB0374-ICV3 | NT1423022836.D | NA | 03/01/23 22:40 |
| ABN 0.2 | SLB0374-LCV3 | NT1423022838.D | NA | 03/01/23 23:52 |
| ABN 0.5 | SLB0374-LCV4 | NT1423022839.D | NA | 03/02/23 00:28 |
| ZZZZZ | 23A0179-07 | NT1423022840.D | Solid | 03/02/23 01:03 |
| ZZZZZ | 23A0179-08 | NT1423022841.D | Solid | 03/02/23 01:39 |



ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Sequence: SLB0374

Instrument: NT14

Calibration: GC00033

| Sample Name | Lab Sample ID | Lab File ID | Matrix | Analysis Date/Time |
|-------------------|---------------|----------------|--------|--------------------|
| ZZZZZ | 23A0179-11 | NT1423022842.D | Solid | 03/02/23 02:15 |
| ZZZZZ | 23A0179-12 | NT1423022843.D | Solid | 03/02/23 02:51 |
| LDW23-SC1164 | 23A0180-01 | NT1423022844.D | Solid | 03/02/23 03:27 |
| LDW23-SC1164-FD | 23A0180-02 | NT1423022845.D | Solid | 03/02/23 04:03 |
| LDW23-SC1158 | 23A0180-03 | NT1423022846.D | Solid | 03/02/23 04:39 |
| LDW23-SC1151 | 23A0180-04 | NT1423022847.D | Solid | 03/02/23 05:15 |
| ABN 5 | SLB0374-ICV4 | NT1423022848.D | NA | 03/02/23 05:52 |
| ABN 0.2 | SLB0374-LCV5 | NT1423022850.D | NA | 03/02/23 07:04 |
| ABN 0.5 | SLB0374-LCV6 | NT1423022851.D | NA | 03/02/23 07:40 |
| ZZZZZ | 23A0179-09 | NT1423022852.D | Solid | 03/02/23 08:16 |
| ZZZZZ | 23A0179-10 | NT1423022853.D | Solid | 03/02/23 08:53 |
| Calibration Check | SLB0374-CCV1 | NT1423022856.D | NA | 03/02/23 10:41 |



ANALYSIS SEQUENCE

SLB0374

Instrument ID: NT14 GCMS Description: Agilent 7890A/5975C XL
Calibration ID: GC00033 GCMS Column ID: L001045
MS EM Level: 1706 EV

| Lab Number | Sample Name | Analysis | Container | Order | STD ID | ISTD ID | Analyzed | File ID | Analyst | Comments |
|--------------|-------------------|----------------------------|-----------|-------|---------|---------|------------------|----------------|---------|----------|
| SLB0374-TUN1 | MS Tune | QC | | 1 | K004775 | | 02/28/2023 11:26 | NT1423022801.D | JGR | |
| SLB0374-CAL7 | CAL 20 | QC | | 2 | K011111 | K010831 | 02/28/2023 11:39 | NT1423022802.D | JGR | |
| SLB0374-CAL6 | CAL 10 | QC | | 3 | K011110 | K010831 | 02/28/2023 12:15 | NT1423022803.D | JGR | |
| SLB0374-CAL5 | CAL 5 | QC | | 4 | K011109 | K010831 | 02/28/2023 12:51 | NT1423022804.D | JGR | |
| SLB0374-CAL4 | CAL 2.5 | QC | | 5 | K011108 | K010831 | 02/28/2023 13:28 | NT1423022805.D | JGR | |
| SLB0374-CAL3 | CAL 1.0 | QC | | 6 | K011107 | K010831 | 02/28/2023 14:04 | NT1423022806.D | JGR | |
| SLB0374-CAL2 | CAL 0.5 | QC | | 7 | K011106 | K010831 | 02/28/2023 14:40 | NT1423022807.D | JGR | |
| SLB0374-CAL1 | CAL 0.2 | QC | | 8 | K011105 | K010831 | 02/28/2023 15:16 | NT1423022808.D | JGR | |
| SLB0374-SCV1 | SCV 5.0 | QC | | 9 | K010066 | K010831 | 02/28/2023 17:41 | NT1423022812.D | JGR | |
| SLB0374-ICB1 | Initial Cal Blank | QC | | 10 | K005156 | K010831 | 02/28/2023 17:04 | NT1423022811.D | JGR | |
| SLB0374-ICV1 | ABN 5 | QC | | 11 | K011109 | K010831 | 03/01/2023 08:50 | NT1423022813.D | JGR | |
| SLB0374-ICV2 | ABN 5 | QC | | 12 | K011109 | K010831 | 03/01/2023 13:39 | NT1423022821.D | JGR | |
| SLB0374-LCV1 | ABN 0.2 | QC | | 13 | K011105 | K010831 | 03/01/2023 14:51 | NT1423022823.D | JGR | |
| SLB0374-LCV2 | ABN 0.5 | QC | | 14 | K011106 | K010831 | 03/01/2023 16:04 | NT1423022825.D | JGR | |
| BLA0557-BLK1 | Blank | QC | | 15 | | K010831 | 03/01/2023 16:40 | NT1423022826.D | JGR | |
| BLA0557-BS1 | LCS | QC | | 16 | | K010831 | 03/01/2023 17:16 | NT1423022827.D | JGR | |
| BLA0557-BSD1 | LCS Dup | QC | | 17 | | K010831 | 03/01/2023 17:52 | NT1423022828.D | JGR | |
| BLA0557-SRM1 | Reference | QC | | 18 | | K010831 | 03/01/2023 18:28 | NT1423022829.D | JGR | |
| 23A0179-01 | LDW23-SS1277 | 20ug/kg solid or 0.2ug/L l | A 02 | 19 | | K010831 | 03/01/2023 19:04 | NT1423022830.D | JGR | |
| 23A0179-02 | LDW23-SS1271 | 20ug/kg solid or 0.2ug/L l | A 02 | 20 | | K010831 | 03/01/2023 19:40 | NT1423022831.D | JGR | |
| 23A0179-03 | LDW23-SS1266 | 20ug/kg solid or 0.2ug/L l | A 02 | 21 | | K010831 | 03/01/2023 20:16 | NT1423022832.D | JGR | |
| 23A0179-04 | LDW23-SS1248 | 20ug/kg solid or 0.2ug/L l | A 02 | 22 | | K010831 | 03/01/2023 20:52 | NT1423022833.D | JGR | |



ANALYSIS SEQUENCE

SLB0374

Instrument ID: NT14 GCMS Description: Agilent 7890A/5975C XL
 Calibration ID: GC00033 GCMS Column ID: L001045
 MS EM Level: 1706 EV

| Lab Number | Sample Name | Analysis | Container | Order | STD ID | ISTD ID | Analyzed | File ID | Analyst | Comments |
|--------------|-------------------|----------------------------|-----------|-------|---------|---------|------------------|----------------|---------|----------|
| 23A0179-05 | LDW23-SS1239 | 20ug/kg solid or 0.2ug/L l | A 02 | 23 | | K010831 | 03/01/2023 21:28 | NT1423022834.D | JGR | |
| 23A0179-06 | LDW23-SS1213 | 20ug/kg solid or 0.2ug/L l | A 02 | 24 | | K010831 | 03/01/2023 22:04 | NT1423022835.D | JGR | |
| SLB0374-ICV3 | ABN 5 | QC | | 25 | K011109 | K010831 | 03/01/2023 22:40 | NT1423022836.D | JGR | |
| SLB0374-LCV3 | ABN 0.2 | QC | | 26 | K011105 | K010831 | 03/01/2023 23:52 | NT1423022838.D | JGR | |
| SLB0374-LCV4 | ABN 0.5 | QC | | 27 | K011106 | K010831 | 03/02/2023 00:28 | NT1423022839.D | JGR | |
| 23A0179-07 | LDW23-SS1200 | 20ug/kg solid or 0.2ug/L l | A 02 | 28 | | K010831 | 03/02/2023 01:03 | NT1423022840.D | JGR | |
| 23A0179-08 | LDW23-SS1178 | 20ug/kg solid or 0.2ug/L l | A 02 | 29 | | K010831 | 03/02/2023 01:39 | NT1423022841.D | JGR | |
| 23A0179-11 | LDW23-SS1039 | 20ug/kg solid or 0.2ug/L l | A 02 | 30 | | K010831 | 03/02/2023 02:15 | NT1423022842.D | JGR | |
| 23A0179-12 | LDW23-SS1007 | 20ug/kg solid or 0.2ug/L l | A 02 | 31 | | K010831 | 03/02/2023 02:51 | NT1423022843.D | JGR | |
| 23A0180-01 | LDW23-SC1164 | 20ug/kg solid or 0.2ug/L l | A 02 | 32 | | K010831 | 03/02/2023 03:27 | NT1423022844.D | JGR | |
| 23A0180-02 | LDW23-SC1164-FD | 20ug/kg solid or 0.2ug/L l | A 02 | 33 | | K010831 | 03/02/2023 04:03 | NT1423022845.D | JGR | |
| 23A0180-03 | LDW23-SC1158 | 20ug/kg solid or 0.2ug/L l | A 02 | 34 | | K010831 | 03/02/2023 04:39 | NT1423022846.D | JGR | |
| 23A0180-04 | LDW23-SC1151 | 20ug/kg solid or 0.2ug/L l | A 02 | 35 | | K010831 | 03/02/2023 05:15 | NT1423022847.D | JGR | |
| SLB0374-ICV4 | ABN 5 | QC | | 36 | K011109 | K010831 | 03/02/2023 05:52 | NT1423022848.D | JGR | |
| SLB0374-LCV5 | ABN 0.2 | QC | | 37 | K011105 | K010831 | 03/02/2023 07:04 | NT1423022850.D | JGR | |
| SLB0374-LCV6 | ABN 0.5 | QC | | 38 | K011106 | K010831 | 03/02/2023 07:40 | NT1423022851.D | JGR | |
| 23A0179-09 | LDW23-SS1171 | 20ug/kg solid or 0.2ug/L l | A 02 | 39 | | K010831 | 03/02/2023 08:16 | NT1423022852.D | JGR | |
| 23A0179-10 | LDW23-SS1112 | 20ug/kg solid or 0.2ug/L l | A 02 | 40 | | K010831 | 03/02/2023 08:53 | NT1423022853.D | JGR | |
| BLA0557-MS1 | Matrix Spike | QC | | 41 | | K010831 | 03/02/2023 09:29 | NT1423022854.D | JGR | |
| BLA0557-MSD1 | Matrix Spike Dup | QC | | 42 | | K010831 | 03/02/2023 10:05 | NT1423022855.D | JGR | |
| SLB0374-CCV1 | Calibration Check | QC | | 43 | K011109 | K010831 | 03/02/2023 10:41 | NT1423022856.D | JGR | |

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20230228.b

| Time | Filename | LabID | ClientId | DF | | | | | | | | | | | | | | |
|------|----------|----------------|--------------|----|----------------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|
| 1 | 1126 | NT1423022801.D | SLB0374-TUN1 | 1 | NO ISTDs FOUND | | | | | | | | | | | | | |
| 2 | 1139 | NT1423022802.D | SLB0374-CAL7 | 1 | 8.22 | 113367 | 10.67 | 424117 | 14.26 | 251095 | 17.27 | 497175 | 22.38 | 380267 | 24.73 | 372957 | 23.49 | 489751 |
| 3 | 1215 | NT1423022803.D | SLB0374-CAL6 | 1 | 8.21 | 109658 | 10.67 | 398074 | 14.26 | 245951 | 17.26 | 485216 | 22.38 | 380106 | 24.72 | 359407 | 23.48 | 493409 |
| 4 | 1251 | NT1423022804.D | SLB0374-CAL5 | 1 | 8.21 | 114351 | 10.67 | 408655 | 14.25 | 254000 | 17.25 | 490626 | 22.38 | 390400 | 24.72 | 375675 | 23.48 | 500829 |
| 5 | 1328 | NT1423022805.D | SLB0374-CAL4 | 1 | 8.21 | 113228 | 10.67 | 405310 | 14.25 | 245142 | 17.25 | 485508 | 22.37 | 392724 | 24.71 | 375073 | 23.48 | 485486 |
| 6 | 1404 | NT1423022806.D | SLB0374-CAL3 | 1 | 8.21 | 117168 | 10.67 | 418158 | 14.25 | 252184 | 17.25 | 495615 | 22.37 | 397673 | 24.71 | 383322 | 23.48 | 469239 |
| 7 | 1440 | NT1423022807.D | SLB0374-CAL2 | 1 | 8.22 | 126289 | 10.67 | 445088 | 14.25 | 268255 | 17.25 | 528369 | 22.37 | 429353 | 24.72 | 418883 | 23.48 | 491860 |
| 8 | 1516 | NT1423022808.D | SLB0374-CAL1 | 1 | 8.21 | 113699 | 10.67 | 400412 | 14.25 | 237606 | 17.25 | 464964 | 22.36 | 366875 | 24.72 | 354894 | 23.48 | 382256 |
| 9 | 1552 | NT1423022809.D | SLB0375-CAL2 | 1 | 8.21 | 121492 | 10.67 | 422553 | 14.25 | 248357 | 17.25 | 490951 | 22.36 | 403914 | 24.71 | 390908 | 23.48 | 418382 |
| 10 | 1628 | NT1423022810.D | SLB0375-CAL1 | 1 | 8.21 | 114265 | 10.66 | 405698 | 14.25 | 238126 | 17.25 | 464234 | 22.36 | 368456 | 24.72 | 361000 | 23.48 | 374202 |
| 11 | 1704 | NT1423022811.D | SLB0374-ICB1 | 1 | 8.21 | 117167 | 10.66 | 407027 | 14.24 | 239853 | 17.25 | 473405 | 22.36 | 364221 | 24.71 | 358535 | 23.48 | 366453 |
| 12 | 1741 | NT1423022812.D | SLB0374-SCV1 | 1 | 8.21 | 105595 | 10.67 | 379346 | 14.25 | 230482 | 17.25 | 458109 | 22.37 | 351284 | 24.71 | 336637 | 23.48 | 422614 |
| 13 | 0850 | NT1423022813.D | SLB0374-ICV1 | 1 | 8.19 | 130493 | 10.64 | 468517 | 14.23 | 287099 | 17.24 | 562063 | 22.35 | 437959 | 24.70 | 412943 | 23.47 | 562397 |
| 14 | 0926 | NT1423022814.D | SLB0374-ICV2 | 1 | 8.19 | 121368 | 10.64 | 435125 | 14.22 | 258208 | 17.23 | 509895 | 22.35 | 402908 | 24.69 | 386677 | 23.46 | 463321 |
| 15 | 1002 | NT1423022815.D | SLB0374-IBL1 | 1 | 8.19 | 112285 | 10.64 | 401456 | 14.23 | 248381 | 17.23 | 490071 | 22.35 | 382855 | 24.70 | 358877 | 23.47 | 475658 |
| 16 | 1039 | NT1423022816.D | 23A0134-12 | 1 | 8.19 | 163816 | 10.64 | 584308 | 14.23 | 345158 | 17.24 | 639221 | 22.36 | 496464 | 24.71 | 637348 | 23.48 | 751371 |
| 17 | 1115 | NT1423022817.D | 23A0134-13 | 1 | 8.19 | 145235 | 10.64 | 527217 | 14.23 | 301577 | 17.25 | 565289 | 22.39 | 445240 | 24.77 | 393072 | 23.50 | 531926 |
| 18 | 1151 | NT1423022818.D | BLA0410-MS1 | 1 | 8.19 | 122256 | 10.65 | 431740 | 14.24 | 256989 | 17.25 | 480982 | 22.41 | 379908 | 24.78 | 288883 | 23.51 | 422602 |
| 19 | 1227 | NT1423022819.D | BLA0410-MSD1 | 1 | 8.19 | 115160 | 10.65 | 407447 | 14.24 | 243692 | 17.25 | 448530 | 22.40 | 375694 | 24.78 | 292934 | 23.51 | 436267 |
| 20 | 1303 | NT1423022820.D | 23A0134-15 | 1 | 8.19 | 123533 | 10.65 | 442879 | 14.23 | 256586 | 17.25 | 473488 | 22.38 | 423862 | 24.74 | 428289 | 23.48 | 605691 |

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20230228.b

| Time | Filename | LabID | ClientId | DF | | | | | | | | | | | | | | | | | | | | | | |
|------|----------|----------------|------------------|----|---|--|------|--------|--|-------|--------|--|-------|--------|--|-------|--------|--|-------|--------|--|-------|--------|--|-------|--------|
| 21 | 1339 | NT1423022821.D | SLB0374-ICV2 | | 1 | | 8.19 | 125853 | | 10.65 | 454961 | | 14.23 | 273779 | | 17.24 | 520384 | | 22.36 | 399183 | | 24.71 | 478887 | | 23.47 | 602810 |
| 22 | 1415 | NT1423022822.D | SLB0374-CCV2 | | 1 | | 8.19 | 113379 | | 10.65 | 412348 | | 14.23 | 239323 | | 17.24 | 447754 | | 22.36 | 329136 | | 24.71 | 411253 | | 23.47 | 499022 |
| 23 | 1451 | NT1423022823.D | SLB0374-LCV1 | | 1 | | 8.19 | 114717 | | 10.65 | 407764 | | 14.23 | 232149 | | 17.24 | 434349 | | 22.36 | 321275 | | 24.71 | 396889 | | 23.47 | 479418 |
| 24 | 1527 | NT1423022824.D | SLB0374-LCV2-sim | | 1 | | 8.19 | 114478 | | 10.65 | 407756 | | 14.23 | 229888 | | 17.24 | 431838 | | 22.35 | 320335 | | 24.71 | 390425 | | 23.47 | 465252 |
| 25 | 1604 | NT1423022825.D | SLB0374-LCV2 | | 1 | | 8.19 | 130297 | | 10.64 | 458645 | | 14.23 | 264644 | | 17.24 | 503378 | | 22.36 | 366987 | | 24.71 | 433681 | | 23.47 | 534079 |
| 26 | 1640 | NT1423022826.D | BLA0557-BLK1 | | 1 | | 8.19 | 119737 | | 10.64 | 429209 | | 14.23 | 246224 | | 17.24 | 459727 | | 22.36 | 327323 | | 24.71 | 397979 | | 23.47 | 489283 |
| 27 | 1716 | NT1423022827.D | BLA0557-BS1 | | 1 | | 8.19 | 115317 | | 10.65 | 411740 | | 14.23 | 247058 | | 17.24 | 455912 | | 22.36 | 347971 | | 24.71 | 413395 | | 23.47 | 520496 |
| 28 | 1752 | NT1423022828.D | BLA0557-BSD1 | | 1 | | 8.19 | 113200 | | 10.65 | 411152 | | 14.23 | 242424 | | 17.24 | 456525 | | 22.36 | 343644 | | 24.71 | 400872 | | 23.47 | 509245 |
| 29 | 1828 | NT1423022829.D | BLA0557-SRM1 | | 1 | | 8.19 | 118527 | | 10.64 | 431802 | | 14.23 | 245761 | | 17.24 | 473833 | | 22.36 | 346329 | | 24.71 | 414695 | | 23.47 | 532201 |
| 30 | 1904 | NT1423022830.D | 23A0179-01 | | 1 | | 8.19 | 119238 | | 10.64 | 432560 | | 14.23 | 248523 | | 17.24 | 466029 | | 22.36 | 374382 | | 24.72 | 421669 | | 23.48 | 560278 |
| 31 | 1940 | NT1423022831.D | 23A0179-02 | | 1 | | 8.19 | 119277 | | 10.64 | 432454 | | 14.23 | 252217 | | 17.25 | 481102 | | 22.37 | 372794 | | 24.72 | 416230 | | 23.48 | 566258 |
| 32 | 2016 | NT1423022832.D | 23A0179-03 | | 1 | | 8.19 | 115524 | | 10.65 | 421103 | | 14.23 | 239203 | | 17.25 | 458791 | | 22.37 | 370872 | | 24.72 | 393621 | | 23.48 | 549356 |
| 33 | 2052 | NT1423022833.D | 23A0179-04 | | 1 | | 8.19 | 116979 | | 10.65 | 423995 | | 14.23 | 244587 | | 17.25 | 462250 | | 22.37 | 384116 | | 24.73 | 379708 | | 23.48 | 562558 |
| 34 | 2128 | NT1423022834.D | 23A0179-05 | | 1 | | 8.19 | 112666 | | 10.65 | 413748 | | 14.23 | 238289 | | 17.25 | 453532 | | 22.37 | 360184 | | 24.72 | 366272 | | 23.48 | 547319 |
| 35 | 2204 | NT1423022835.D | 23A0179-06 | | 1 | | 8.19 | 110602 | | 10.65 | 406761 | | 14.23 | 233719 | | 17.25 | 442539 | | 22.38 | 371233 | | 24.73 | 341558 | | 23.48 | 549387 |
| 36 | 2240 | NT1423022836.D | SLB0374-ICV3 | | 1 | | 8.20 | 115350 | | 10.65 | 415895 | | 14.24 | 246020 | | 17.25 | 448598 | | 22.37 | 373978 | | 24.71 | 357819 | | 23.48 | 541572 |
| 37 | 2316 | NT1423022837.D | SLB0374-CCV4 | | 1 | | 8.20 | 101302 | | 10.65 | 365654 | | 14.23 | 208218 | | 17.24 | 380917 | | 22.36 | 308390 | | 24.72 | 291479 | | 23.47 | 448418 |
| 38 | 2352 | NT1423022838.D | SLB0374-LCV3 | | 1 | | 8.20 | 114387 | | 10.65 | 404965 | | 14.23 | 227510 | | 17.25 | 416834 | | 22.36 | 340670 | | 24.71 | 315652 | | 23.47 | 485089 |
| 39 | 0028 | NT1423022839.D | SLB0374-LCV4 | | 1 | | 8.19 | 113866 | | 10.65 | 401641 | | 14.23 | 232085 | | 17.24 | 421769 | | 22.36 | 338375 | | 24.72 | 315661 | | 23.47 | 478625 |
| 40 | 0103 | NT1423022840.D | 23A0179-07 | | 1 | | 8.19 | 113345 | | 10.65 | 407490 | | 14.23 | 237925 | | 17.25 | 446581 | | 22.37 | 349621 | | 24.72 | 323654 | | 23.48 | 514994 |
| 41 | 0139 | NT1423022841.D | 23A0179-08 | | 1 | | 8.20 | 110627 | | 10.65 | 415675 | | 14.24 | 236007 | | 17.25 | 446361 | | 22.38 | 373421 | | 24.73 | 329916 | | 23.48 | 555260 |

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20230228.b

| Time | Filename | LabID | ClientId | DF | | | | | | | | | | |
|------|----------|----------------|--------------|----|--|------|---------------|---------------|---------------|---------------|---------------|---------------|--------|--|
| 42 | 0215 | NT1423022842.D | 23A0179-11 | 1 | | 8.20 | 111897 10.65 | 409099 14.24 | 236278 17.25 | 442785 22.38 | 383564 24.74 | 309313 23.48 | 565245 | |
| 43 | 0251 | NT1423022843.D | 23A0179-12 | 1 | | 8.20 | 109867 10.65 | 405952 14.24 | 230944 17.25 | 437765 22.38 | 374619 24.74 | 314304 23.48 | 548577 | |
| 44 | 0327 | NT1423022844.D | 23A0180-01 | 1 | | 8.20 | 111445 10.66 | 403002 14.24 | 231049 17.25 | 436923 22.39 | 383047 24.75 | 281715 23.49 | 532671 | |
| 45 | 0403 | NT1423022845.D | 23A0180-02 | 1 | | 8.20 | 110517 10.66 | 404153 14.24 | 231072 17.25 | 432633 22.39 | 374504 24.75 | 278246 23.49 | 536189 | |
| 46 | 0439 | NT1423022846.D | 23A0180-03 | 1 | | 8.20 | 121220 10.66 | 444463 14.25 | 254449 17.26 | 481686 22.38 | 413576 24.75 | 299632 23.49 | 605703 | |
| 47 | 0515 | NT1423022847.D | 23A0180-04 | 1 | | 8.21 | 108875 10.66 | 401293 14.25 | 227418 17.26 | 428058 22.39 | 375926 24.75 | 255600 23.49 | 545489 | |
| 48 | 0552 | NT1423022848.D | SLB0374-ICV4 | 1 | | 8.21 | 116519 10.67 | 429090 14.25 | 250637 17.25 | 458117 22.38 | 393468 24.73 | 283320 23.48 | 572636 | |
| 49 | 0628 | NT1423022849.D | SLB0374-CCV6 | 1 | | 8.21 | 100165 10.66 | 356839 14.25 | 204998 17.25 | 370142 22.38 | 313377 24.72 | 217355 23.48 | 453092 | |
| 50 | 0704 | NT1423022850.D | SLB0374-LCV5 | 1 | | 8.21 | 115459 10.66 | 409877 14.25 | 230328 17.25 | 417754 22.38 | 352830 24.73 | 239484 23.48 | 499736 | |
| 51 | 0740 | NT1423022851.D | SLB0374-LCV6 | 1 | | 8.21 | 111416 10.66 | 403388 14.25 | 226130 17.25 | 411120 22.37 | 340331 24.72 | 240961 23.48 | 479730 | |
| 52 | 0816 | NT1423022852.D | 23A0179-09 | 10 | | 8.21 | 107119 10.66 | 388462 14.24 | 221798 17.25 | 408625 22.37 | 328051 24.73 | 258014 23.48 | 495620 | |
| 53 | 0853 | NT1423022853.D | 23A0179-10 | 10 | | 8.21 | 108921 10.66 | 388732 14.24 | 222640 17.25 | 407717 22.38 | 337194 24.73 | 247492 23.48 | 490020 | |
| 54 | 0929 | NT1423022854.D | BLA0557-MS1 | 10 | | 8.20 | 108236 10.66 | 386639 14.24 | 219298 17.25 | 399312 22.37 | 325344 24.72 | 222525 23.48 | 476401 | |
| 55 | 1005 | NT1423022855.D | BLA0557-MSD1 | 10 | | 8.20 | 107306 10.66 | 387922 14.24 | 222307 17.25 | 411647 22.37 | 322410 24.72 | 228505 23.48 | 482430 | |
| 56 | 1041 | NT1423022856.D | SLB0374-CCV7 | 1 | | 8.21 | 125192 10.66 | 458907 14.25 | 271560 17.25 | 498585 22.38 | 404214 24.72 | 284657 23.48 | 582020 | |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20230228.b

Instrument: nt14.i Date: 28-FEB-2023

| Time | Filename | LabID | DF | Manually Integrated Compounds |
|------|----------------|--------------|----|---|
| 1126 | NT1423022801.D | SLB0374-TUN1 | 1 | NO MANUAL INTEGRATION |
| 1139 | NT1423022802.D | SLB0374-CAL7 | 1 | 2,2'-oxybis(1-Chloropropane), Isophorone, Benzoic acid, |
| 1215 | NT1423022803.D | SLB0374-CAL6 | 1 | Benzoic acid, |
| 1251 | NT1423022804.D | SLB0374-CAL5 | 1 | NO MANUAL INTEGRATION |
| 1328 | NT1423022805.D | SLB0374-CAL4 | 1 | Benzoic acid, |
| 1404 | NT1423022806.D | SLB0374-CAL3 | 1 | Benzoic acid, 2,4-Dinitrophenol, 4-Nitrophenol, Pentachlorophenol, |
| 1440 | NT1423022807.D | SLB0374-CAL2 | 1 | Benzyl alcohol, 2,4-Dinitrophenol, 4-Nitrophenol, 4,6-Dinitro-2-methylphenol, Pentachlorophenol, Pyridine, 2-Fluorophenol, |
| 1516 | NT1423022808.D | SLB0374-CAL1 | 1 | Phenol, Bis(2-Chloroethyl)ether, 2-Chlorophenol, Benzyl alcohol, N-Nitroso-di-n-propylamine, 2-Nitrophenol, 4-Chloroaniline, 2,4,5-Trichlorophenol, 3-Nitroaniline, 4-Nitroaniline, 4,6-Dinitro-2-methylphenol, N-2,3,4,6-Tetrachlorophenol, 2-Fluorophenol, 2-Chlorophenol-d4, 2,4,6-Tribromophenol, |
| 1552 | NT1423022809.D | SLB0375-CAL2 | 1 | NO MANUAL INTEGRATION |
| 1628 | NT1423022810.D | SLB0375-CAL1 | 1 | NO MANUAL INTEGRATION |
| 1704 | NT1423022811.D | SLB0374-ICB1 | 1 | NO MANUAL INTEGRATION |
| 1741 | NT1423022812.D | SLB0374-SCV1 | 1 | Benzoic acid, Pentachlorophenol, |
| 0850 | NT1423022813.D | SLB0374-ICV1 | 1 | NO MANUAL INTEGRATION |
| 0926 | NT1423022814.D | SLB0374-ICV2 | 1 | NO MANUAL INTEGRATION |
| 1002 | NT1423022815.D | SLB0374-IBL1 | 1 | NO MANUAL INTEGRATION |
| 1039 | NT1423022816.D | 23A0134-12 | 1 | Benzoic acid, bis(2-Ethylhexyl)phthalate, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, |
| 1115 | NT1423022817.D | 23A0134-13 | 1 | Benzoic acid, Di-n-octylphthalate, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, |

Instrument: nt14.i Date: 01-MAR-2023

| Time | Filename | LabID | DF | Manually Integrated Compounds |
|------|----------------|------------------|----|---|
| 1151 | NT1423022818.D | BLA0410-MS1 | 1 | 3,3'-Dichlorobenzidine, Di-n-octylphthalate, |
| 1227 | NT1423022819.D | BLA0410-MSD1 | 1 | Di-n-octylphthalate, |
| 1303 | NT1423022820.D | 23A0134-15 | 1 | 2,4-Dimethylphenol, 4-Chlorophenyl-phenylether, Dibenzo(a,h)anthracene, Total Benzofluoranthenes, |
| 1339 | NT1423022821.D | SLB0374-ICV2 | 1 | 2,2'-oxybis(1-Chloropropane), |
| 1415 | NT1423022822.D | SLB0374-CCV2 | 1 | NO MANUAL INTEGRATION |
| 1451 | NT1423022823.D | SLB0374-LCV1 | 1 | Phenol, Benzyl alcohol, 2,2'-oxybis(1-Chloropropane), 2-Nitrophenol, 4-Nitroaniline, 4,6-Dinitro-2-methylpheno Pentachlorophenol, Pyridine, 2,3,4,6-Tetrachlorophenol, |
| 1527 | NT1423022824.D | SLB0374-LCV2-sim | 1 | NO MANUAL INTEGRATION |
| 1604 | NT1423022825.D | SLB0374-LCV2 | 1 | 2,2'-oxybis(1-Chloropropane), Benzoic acid, 3-Nitroaniline, 2,4-Dinitrophenol, 4-Nitrophenol, Pentachloropheno |
| 1640 | NT1423022826.D | BLA0557-BLK1 | 1 | NO MANUAL INTEGRATION |
| 1716 | NT1423022827.D | BLA0557-BS1 | 1 | NO MANUAL INTEGRATION |
| 1752 | NT1423022828.D | BLA0557-BSD1 | 1 | NO MANUAL INTEGRATION |
| 1828 | NT1423022829.D | BLA0557-SRM1 | 1 | Benzoic acid, |
| 1904 | NT1423022830.D | 23A0179-01 | 1 | 1,4-Dichlorobenzene, Benzyl alcohol, 2-Methylphenol, Dibenzo(a,h)anthracene, Total Benzofluoranthenes, |
| 1940 | NT1423022831.D | 23A0179-02 | 1 | Benzoic acid, Dibenzo(a,h)anthracene, Total Benzofluoranthenes, |
| 2016 | NT1423022832.D | 23A0179-03 | 1 | Benzyl alcohol, Benzoic acid, Dibenzo(a,h)anthracene, Total Benzofluoranthenes, |
| 2052 | NT1423022833.D | 23A0179-04 | 1 | Benzoic acid, Dibenzo(a,h)anthracene, Total Benzofluoranthenes, |
| 2128 | NT1423022834.D | 23A0179-05 | 1 | Benzoic acid, Total Benzofluoranthenes, |
| 2204 | NT1423022835.D | 23A0179-06 | 1 | Benzoic acid, Dibenzo(a,h)anthracene, Total Benzofluoranthenes, |

Instrument: nt14.i Date: 01-MAR-2023

| Time | Filename | LabID | DF | Manually Integrated Compounds |
|------|----------------|--------------|----|--|
| 2240 | NT1423022836.D | SLB0374-ICV3 | 1 | NO MANUAL INTEGRATION |
| 2316 | NT1423022837.D | SLB0374-CCV4 | 1 | NO MANUAL INTEGRATION |
| 2352 | NT1423022838.D | SLB0374-LCV3 | 1 | Phenol, Benzyl alcohol, 2-Nitrophenol, 2,4-Dichlorophenol, Benzoic acid, 4-Chloroaniline, 4-Chloro-3-methylphenol, 2,4,5-Trichlorophenol, 3-Nitroaniline, 4-Nitrophenol, 4-Nitroaniline, 4,6-Di- Pentachlorophenol, Benzidine, Pyridine, 2,3,4,6-Tetrachlorophenol, 2-Fluorophenol, Phenol-d5, 2,4, |
| 0028 | NT1423022839.D | SLB0374-LCV4 | 1 | Benzyl alcohol, Benzoic acid, 2,4-Dinitrophenol, 4-Nitrophenol, Pentachlorophenol, |
| 0103 | NT1423022840.D | 23A0179-07 | 1 | 2-Methylphenol, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Total Benzofluoranthenes, |
| 0139 | NT1423022841.D | 23A0179-08 | 1 | Benzoic acid, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Total Benzofluoranthenes, |
| 0215 | NT1423022842.D | 23A0179-11 | 1 | Benzyl alcohol, 2-Methylphenol, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Total Benzofluoranthenes, |
| 0251 | NT1423022843.D | 23A0179-12 | 1 | Benzyl alcohol, Benzoic acid, Dibenzo(a,h)anthracene, Total Benzofluoranthenes, |
| 0327 | NT1423022844.D | 23A0180-01 | 1 | Benzoic acid, Dibenzo(a,h)anthracene, |
| 0403 | NT1423022845.D | 23A0180-02 | 1 | Benzoic acid, Dibenzo(a,h)anthracene, |
| 0439 | NT1423022846.D | 23A0180-03 | 1 | Benzoic acid, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Total Benzofluoranthenes, |
| 0515 | NT1423022847.D | 23A0180-04 | 1 | Benzoic acid, Dibenzo(a,h)anthracene, |
| 0552 | NT1423022848.D | SLB0374-ICV4 | 1 | 2,2'-oxybis(1-Chloropropane), |
| 0628 | NT1423022849.D | SLB0374-CCV6 | 1 | NO MANUAL INTEGRATION |
| 0704 | NT1423022850.D | SLB0374-LCV5 | 1 | Benzyl alcohol, 2,4-Dichlorophenol, 4-Chloroaniline, 2,4,5-Trichlorophenol, 3-Nitroaniline, 4-Nitroaniline, 4,6-Dinitro-2-methylphenol, Pentachlorophenol, N-Nitrosodimethylamine, Benzidine, Pyridine, |
| 0740 | NT1423022851.D | SLB0374-LCV6 | 1 | Benzyl alcohol, 2,2'-oxybis(1-Chloropropane), 2-Nitrophenol, Benzoic acid, Hexachlorocyclopentadiene, 2,4-Dini- 4-Nitrophenol, Pentachlorophenol, 2,3,4,6-Tetrachlorophenol, |
| 0816 | NT1423022852.D | 23A0179-09 | 10 | Benzo(k)fluoranthene, |
| 0853 | NT1423022853.D | 23A0179-10 | 10 | NO MANUAL INTEGRATION |

Instrument: nt14.i Date: 02-MAR-2023

| Time | Filename | LabID | DF | Manually Integrated Compounds |
|------|----------------|--------------|----|---|
| 0929 | NT1423022854.D | BLA0557-MS1 | 10 | Benzyl alcohol, Benzoic acid, 4-Chloroaniline, 2,4-Dinitrophenol, |
| 1005 | NT1423022855.D | BLA0557-MSD1 | 10 | Benzyl alcohol, Benzoic acid, 4-Chloroaniline, 2,4-Dinitrophenol, 4-Nitrophenol, Pentachlorophenol, |
| 1041 | NT1423022856.D | SLB0374-CCV7 | 1 | 2,2'-oxybis(1-Chloropropane), Benzoic acid, |

Security Status Report

Date: 14-Mar-2023 09:37

| | | | | |
|----------------|-------------|------|-------------|-------|
| NT1423022801.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022802.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022803.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022804.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022805.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022806.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022807.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022808.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022809.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022810.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022811.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022812.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022813.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022814.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
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| NT1423022816.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022817.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022818.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022819.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022820.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022821.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022822.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022823.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022824.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022825.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022826.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022827.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022828.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022829.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022830.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022831.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022832.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022833.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022834.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022835.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022836.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022837.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022838.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022839.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022840.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022841.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022842.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022843.D | Data Locked | van, | 14-Mar-2023 | 09:37 |
| NT1423022844.D | Data Locked | van, | 14-Mar-2023 | 09:37 |

| | | |
|----------------|-------------|------------------------|
| NT1423022845.D | Data Locked | van, 14-Mar-2023 09:37 |
| NT1423022846.D | Data Locked | van, 14-Mar-2023 09:37 |
| NT1423022847.D | Data Locked | van, 14-Mar-2023 09:37 |
| NT1423022848.D | Data Locked | van, 14-Mar-2023 09:37 |
| NT1423022849.D | Data Locked | van, 14-Mar-2023 09:37 |
| NT1423022850.D | Data Locked | van, 14-Mar-2023 09:37 |
| NT1423022851.D | Data Locked | van, 14-Mar-2023 09:37 |
| NT1423022852.D | Data Locked | van, 14-Mar-2023 09:37 |
| NT1423022853.D | Data Locked | van, 14-Mar-2023 09:37 |
| NT1423022854.D | Data Locked | van, 14-Mar-2023 09:37 |
| NT1423022855.D | Data Locked | van, 14-Mar-2023 09:37 |
| NT1423022856.D | Data Locked | van, 14-Mar-2023 09:37 |



ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Sequence: SLC0228

Instrument: NT10

Calibration: GC00046

| Sample Name | Lab Sample ID | Lab File ID | Matrix | Analysis Date/Time |
|-------------------|---------------|--------------|--------|--------------------|
| MS Tune | SLC0228-TUN1 | NT10031501.D | NA | 03/15/23 20:19 |
| CAL 20 | SLC0228-CAL7 | NT10031502.D | NA | 03/15/23 20:34 |
| CAL 10 | SLC0228-CAL6 | NT10031503.D | NA | 03/15/23 21:12 |
| CAL 5 | SLC0228-CAL5 | NT10031504.D | NA | 03/15/23 21:50 |
| CAL 2.5 | SLC0228-CAL4 | NT10031505.D | NA | 03/15/23 22:28 |
| CAL 1.0 | SLC0228-CAL3 | NT10031506.D | NA | 03/15/23 23:06 |
| CAL 0.5 | SLC0228-CAL2 | NT10031507.D | NA | 03/15/23 23:44 |
| CAL 0.2 | SLC0228-CAL1 | NT10031508.D | NA | 03/16/23 00:22 |
| SCV 5.0 | SLC0228-SCV1 | NT10031511.D | NA | 03/16/23 02:16 |
| Initial Cal Blank | SLC0228-ICB1 | NT10031512.D | NA | 03/16/23 02:54 |



ANALYSIS SEQUENCE

SLC0228

Instrument ID: NT10 GCMS Description: Agilent 5975/MS http://bi
Calibration ID: GC00046 GCMS Column ID: L002830
MS EM Level: 1271 EV

| Lab Number | Sample Name | Analysis | Container | Order | STD ID | ISTD ID | Analyzed | File ID | Analyst | Comments |
|--------------|-------------------|----------|-----------|-------|---------|---------|------------------|--------------|---------|----------|
| SLC0228-TUN1 | MS Tune | QC | | 1 | K004775 | | 03/15/2023 20:19 | NT10031501.D | JGR | |
| SLC0228-CAL7 | CAL 20 | QC | | 2 | K011111 | K010831 | 03/15/2023 20:34 | NT10031502.D | VTS | |
| SLC0228-CAL6 | CAL 10 | QC | | 3 | K011110 | K010831 | 03/15/2023 21:12 | NT10031503.D | VTS | |
| SLC0228-CAL5 | CAL 5 | QC | | 4 | K011109 | K010831 | 03/15/2023 21:50 | NT10031504.D | VTS | |
| SLC0228-CAL4 | CAL 2.5 | QC | | 5 | K011108 | K010831 | 03/15/2023 22:28 | NT10031505.D | VTS | |
| SLC0228-CAL3 | CAL 1.0 | QC | | 6 | K011107 | K010831 | 03/15/2023 23:06 | NT10031506.D | VTS | |
| SLC0228-CAL2 | CAL 0.5 | QC | | 7 | K011106 | K010831 | 03/15/2023 23:44 | NT10031507.D | VTS | |
| SLC0228-CAL1 | CAL 0.2 | QC | | 8 | K011105 | K010831 | 03/16/2023 00:22 | NT10031508.D | VTS | |
| SLC0228-SCV1 | SCV 5.0 | QC | | 9 | L002833 | K010831 | 03/16/2023 02:16 | NT10031511.D | VTS | |
| SLC0228-ICB1 | Initial Cal Blank | QC | | 10 | K005156 | K010831 | 03/16/2023 02:54 | NT10031512.D | VTS | |

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230315.b

| Time | Filename | LabID | ClientId | DF | | | | | | | | | | | | | | | | |
|------|----------|--------------|--------------|----|---|--|----------------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|
| 1 | 2019 | NT10031501.D | SLC0228-TUN1 | | 1 | | NO ISTDs FOUND | | | | | | | | | | | | | |
| 2 | 2034 | NT10031502.D | SLC0228-CAL7 | | 1 | | 9.30 | 177375 | 11.78 | 659656 | 15.38 | 352987 | 18.42 | 587447 | 23.46 | 356463 | 26.19 | 404994 | 24.49 | 617041 |
| 3 | 2112 | NT10031503.D | SLC0228-CAL6 | | 1 | | 9.30 | 174984 | 11.78 | 633941 | 15.38 | 344087 | 18.42 | 605930 | 23.46 | 437116 | 26.18 | 463440 | 24.48 | 674085 |
| 4 | 2150 | NT10031504.D | SLC0228-CAL5 | | 1 | | 9.30 | 171542 | 11.78 | 624466 | 15.38 | 337226 | 18.42 | 572849 | 23.45 | 347068 | 26.18 | 421549 | 24.48 | 500317 |
| 5 | 2228 | NT10031505.D | SLC0228-CAL4 | | 1 | | 9.30 | 158570 | 11.78 | 582079 | 15.38 | 306729 | 18.42 | 522311 | 23.45 | 356282 | 26.18 | 420725 | 24.48 | 471925 |
| 6 | 2306 | NT10031506.D | SLC0228-CAL3 | | 1 | | 9.29 | 172257 | 11.78 | 625894 | 15.38 | 330997 | 18.42 | 568685 | 23.45 | 426836 | 26.18 | 489106 | 24.48 | 555437 |
| 7 | 2344 | NT10031507.D | SLC0228-CAL2 | | 1 | | 9.30 | 176328 | 11.78 | 638835 | 15.38 | 333617 | 18.42 | 594262 | 23.45 | 428263 | 26.18 | 479116 | 24.48 | 530893 |
| 8 | 0022 | NT10031508.D | SLC0228-CAL1 | | 1 | | 9.29 | 173382 | 11.77 | 622719 | 15.38 | 323444 | 18.42 | 582036 | 23.45 | 443504 | 26.18 | 490725 | 24.48 | 540769 |
| 9 | 0100 | NT10031509.D | SEQ-SIM2 | | 1 | | 9.29 | 175576 | 11.78 | 624440 | 15.38 | 329518 | 18.42 | 581173 | 23.45 | 424576 | 26.18 | 472151 | 24.48 | 491201 |
| 10 | 0138 | NT10031510.D | SEQ-SIM1 | | 1 | | 9.30 | 172228 | 11.77 | 609518 | 15.38 | 313933 | 18.42 | 564567 | 23.45 | 413842 | 26.18 | 461161 | 24.48 | 469814 |
| 11 | 0216 | NT10031511.D | SLC0228-SCV1 | | 1 | | 9.30 | 154809 | 11.78 | 570882 | 15.38 | 303490 | 18.42 | 533431 | 23.46 | 435381 | 26.19 | 494648 | 24.49 | 660827 |
| 12 | 0254 | NT10031512.D | SLC0228-ICB1 | | 1 | | 9.30 | 173115 | 11.78 | 625865 | 15.38 | 328712 | 18.42 | 592693 | 23.45 | 442208 | 26.18 | 499804 | 24.48 | 526309 |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230315.b

Instrument: nt10.i Date: 15-MAR-2023

| Time | Filename | LabID | DF | Manually Integrated Compounds |
|------|--------------|--------------|----|---|
| 2019 | NT10031501.D | SLC0228-TUN1 | 1 | NO MANUAL INTEGRATION |
| 2034 | NT10031502.D | SLC0228-CAL7 | 1 | Benzoic acid, |
| 2112 | NT10031503.D | SLC0228-CAL6 | 1 | 2,2'-oxybis(1-Chloropropane), |
| 2150 | NT10031504.D | SLC0228-CAL5 | 1 | 2,2'-oxybis(1-Chloropropane), |
| 2228 | NT10031505.D | SLC0228-CAL4 | 1 | 2,2'-oxybis(1-Chloropropane), |
| 2306 | NT10031506.D | SLC0228-CAL3 | 1 | 2,2'-oxybis(1-Chloropropane), |
| 2344 | NT10031507.D | SLC0228-CAL2 | 1 | 2,2'-oxybis(1-Chloropropane), Benzoic acid, |
| 0022 | NT10031508.D | SLC0228-CAL1 | 1 | 2,2'-oxybis(1-Chloropropane), 1,2-Dichlorobenzene-d4, |
| 0100 | NT10031509.D | SEQ-SIM2 | 1 | NO MANUAL INTEGRATION |
| 0138 | NT10031510.D | SEQ-SIM1 | 1 | NO MANUAL INTEGRATION |
| 0216 | NT10031511.D | SLC0228-SCV1 | 1 | NO MANUAL INTEGRATION |
| 0254 | NT10031512.D | SLC0228-ICB1 | 1 | NO MANUAL INTEGRATION |

Security Status Report

Date: 16-Mar-2023 13:06

| | | |
|--------------|-------------|------------------------|
| NT10031501.D | Data Locked | van, 16-Mar-2023 13:06 |
| NT10031502.D | Data Locked | van, 16-Mar-2023 13:06 |
| NT10031503.D | Data Locked | van, 16-Mar-2023 13:06 |
| NT10031504.D | Data Locked | van, 16-Mar-2023 13:06 |
| NT10031505.D | Data Locked | van, 16-Mar-2023 13:06 |
| NT10031506.D | Data Locked | van, 16-Mar-2023 13:06 |
| NT10031507.D | Data Locked | van, 16-Mar-2023 13:06 |
| NT10031508.D | Data Locked | van, 16-Mar-2023 13:06 |
| NT10031509.D | Data Locked | van, 16-Mar-2023 13:06 |
| NT10031510.D | Data Locked | van, 16-Mar-2023 13:06 |
| NT10031511.D | Data Locked | van, 16-Mar-2023 13:06 |
| NT10031512.D | Data Locked | van, 16-Mar-2023 13:06 |



ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Sequence: SLC0397

Instrument: NT10

Calibration: GC00046

| Sample Name | Lab Sample ID | Lab File ID | Matrix | Analysis Date/Time |
|-------------------|---------------|----------------|--------|--------------------|
| MS Tune | SLC0397-TUN1 | NT1003222301.D | NA | 03/22/23 17:27 |
| ABN 5 | SLC0397-ICV1 | NT1003222302.D | NA | 03/22/23 17:42 |
| ABN 0.2 | SLC0397-LCV1 | NT1003222304.D | NA | 03/22/23 18:59 |
| Blank | BLC0442-BLK1 | NT1003222306.D | Solid | 03/22/23 20:16 |
| LCS | BLC0442-BS1 | NT1003222307.D | Solid | 03/22/23 20:54 |
| LCS Dup | BLC0442-BSD1 | NT1003222308.D | Solid | 03/22/23 21:32 |
| Reference | BLC0442-SRM1 | NT1003222309.D | Solid | 03/22/23 22:10 |
| ZZZZZ | 23A0179-01RE1 | NT1003222310.D | Solid | 03/22/23 22:49 |
| ZZZZZ | 23A0179-02RE1 | NT1003222311.D | Solid | 03/22/23 23:27 |
| ZZZZZ | 23A0179-03RE1 | NT1003222312.D | Solid | 03/23/23 00:05 |
| ZZZZZ | 23A0179-04RE1 | NT1003222313.D | Solid | 03/23/23 00:43 |
| ZZZZZ | 23A0179-05RE1 | NT1003222314.D | Solid | 03/23/23 01:21 |
| ZZZZZ | 23A0179-06RE1 | NT1003222315.D | Solid | 03/23/23 01:59 |
| ZZZZZ | 23A0179-07RE1 | NT1003222316.D | Solid | 03/23/23 02:37 |
| ABN 5 | SLC0397-ICV2 | NT1003222317.D | NA | 03/23/23 03:15 |
| ABN 0.2 | SLC0397-LCV2 | NT1003222319.D | NA | 03/23/23 04:30 |
| Blank | BLC0442-BLK3 | NT1003222321.D | Solid | 03/23/23 05:46 |
| ZZZZZ | 23A0179-08RE1 | NT1003222324.D | Solid | 03/23/23 07:39 |
| ZZZZZ | 23A0179-09RE1 | NT1003222325.D | Solid | 03/23/23 08:17 |
| ZZZZZ | 23A0179-10RE1 | NT1003222326.D | Solid | 03/23/23 08:55 |
| ZZZZZ | 23A0179-11RE1 | NT1003222327.D | Solid | 03/23/23 09:33 |
| ZZZZZ | 23A0179-12RE1 | NT1003222328.D | Solid | 03/23/23 10:11 |
| LDW23-SC1164 | 23A0180-01RE1 | NT1003222329.D | Solid | 03/23/23 10:49 |
| LDW23-SC1164-FD | 23A0180-02RE1 | NT1003222330.D | Solid | 03/23/23 11:27 |
| LDW23-SC1158 | 23A0180-03RE1 | NT1003222331.D | Solid | 03/23/23 12:05 |
| LDW23-SC1151 | 23A0180-04RE1 | NT1003222332.D | Solid | 03/23/23 12:44 |
| Calibration Check | SLC0397-CCV1 | NT1003222333.D | NA | 03/23/23 13:22 |



ANALYSIS SEQUENCE

SLC0397

Instrument ID: NT10 GCMS Description: Agilent 5975/MS http://bi
 Calibration ID: GC00046 GCMS Column ID: L002830
 MS EM Level: 1271 EV

| Lab Number | Sample Name | Analysis | Container | Order | STD ID | ISTD ID | Analyzed | File ID | Analyst | Comments |
|---------------|------------------|----------------------------|-----------|-------|---------|---------|------------------|----------------|---------|------------------------------------|
| SLC0397-TUN1 | MS Tune | QC | | 1 | K004775 | | 03/22/2023 17:27 | NT1003222301.D | JGR | |
| SLC0397-ICV1 | ABN 5 | QC | | 2 | K011109 | K010831 | 03/22/2023 17:42 | NT1003222302.D | VTS | |
| SLC0397-LCV1 | ABN 0.2 | QC | | 3 | K011105 | K010831 | 03/22/2023 18:59 | NT1003222304.D | VTS | |
| BLC0442-BLK1 | Blank | QC | | 4 | | K010831 | 03/22/2023 20:16 | NT1003222306.D | VTS | |
| BLC0442-BS1 | LCS | QC | | 5 | | K010831 | 03/22/2023 20:54 | NT1003222307.D | VTS | |
| BLC0442-BSD1 | LCS Dup | QC | | 6 | | K010831 | 03/22/2023 21:32 | NT1003222308.D | VTS | |
| BLC0442-SRM1 | Reference | QC | | 7 | | K010831 | 03/22/2023 22:10 | NT1003222309.D | VTS | |
| 23A0179-01RE1 | LDW23-SS1277 | 20ug/kg solid or 0.2ug/L l | A 05 | 8 | | K010831 | 03/22/2023 22:49 | NT1003222310.D | VTS | From BLA0557 by CTO on 16-Mar-2023 |
| 23A0179-02RE1 | LDW23-SS1271 | 20ug/kg solid or 0.2ug/L l | A 05 | 9 | | K010831 | 03/22/2023 23:27 | NT1003222311.D | VTS | From BLA0557 by CTO on 16-Mar-2023 |
| 23A0179-03RE1 | LDW23-SS1266 | 20ug/kg solid or 0.2ug/L l | A 05 | 10 | | K010831 | 03/23/2023 00:05 | NT1003222312.D | VTS | From BLA0557 by CTO on 16-Mar-2023 |
| 23A0179-04RE1 | LDW23-SS1248 | 20ug/kg solid or 0.2ug/L l | A 05 | 11 | | K010831 | 03/23/2023 00:43 | NT1003222313.D | VTS | From BLA0557 by CTO on 16-Mar-2023 |
| 23A0179-05RE1 | LDW23-SS1239 | 20ug/kg solid or 0.2ug/L l | A 05 | 12 | | K010831 | 03/23/2023 01:21 | NT1003222314.D | VTS | From BLA0557 by CTO on 16-Mar-2023 |
| 23A0179-06RE1 | LDW23-SS1213 | 20ug/kg solid or 0.2ug/L l | A 05 | 13 | | K010831 | 03/23/2023 01:59 | NT1003222315.D | VTS | From BLA0557 by CTO on 16-Mar-2023 |
| 23A0179-07RE1 | LDW23-SS1200 | 20ug/kg solid or 0.2ug/L l | A 05 | 14 | | K010831 | 03/23/2023 02:37 | NT1003222316.D | VTS | From BLA0557 by CTO on 16-Mar-2023 |
| SLC0397-ICV2 | ABN 5 | QC | | 15 | K011109 | K010831 | 03/23/2023 03:15 | NT1003222317.D | VTS | |
| SLC0397-LCV2 | ABN 0.2 | QC | | 16 | K011105 | K010831 | 03/23/2023 04:30 | NT1003222319.D | VTS | |
| BLC0442-BLK3 | Blank | QC | | 17 | | K010831 | 03/23/2023 05:46 | NT1003222321.D | VTS | |
| BLC0442-MS1 | Matrix Spike | QC | | 18 | | K010831 | 03/23/2023 06:24 | NT1003222322.D | VTS | |
| BLC0442-MSD1 | Matrix Spike Dup | QC | | 19 | | K010831 | 03/23/2023 07:01 | NT1003222323.D | VTS | |
| 23A0179-08RE1 | LDW23-SS1178 | 20ug/kg solid or 0.2ug/L l | A 05 | 20 | | K010831 | 03/23/2023 07:39 | NT1003222324.D | VTS | From BLA0557 by CTO on 16-Mar-2023 |
| 23A0179-09RE1 | LDW23-SS1171 | 20ug/kg solid or 0.2ug/L l | A 05 | 21 | | K010831 | 03/23/2023 08:17 | NT1003222325.D | VTS | From BLA0557 by CTO on 16-Mar-2023 |
| 23A0179-10RE1 | LDW23-SS1112 | 20ug/kg solid or 0.2ug/L l | A 05 | 22 | | K010831 | 03/23/2023 08:55 | NT1003222326.D | VTS | From BLA0557 by CTO on 16-Mar-2023 |



ANALYSIS SEQUENCE

SLC0397

Instrument ID: NT10 GCMS Description: Agilent 5975/MS http://bi
Calibration ID: GC00046 GCMS Column ID: L002830
MS EM Level: 1271 EV

| Lab Number | Sample Name | Analysis | Container | Order | STD ID | ISTD ID | Analyzed | File ID | Analyst | Comments |
|---------------|-------------------|----------------------------|-----------|-------|---------|---------|------------------|----------------|---------|------------------------------------|
| 23A0179-11RE1 | LDW23-SS1039 | 20ug/kg solid or 0.2ug/L l | A 05 | 23 | | K010831 | 03/23/2023 09:33 | NT1003222327.D | VTS | From BLA0557 by CTO on 16-Mar-2023 |
| 23A0179-12RE1 | LDW23-SS1007 | 20ug/kg solid or 0.2ug/L l | A 05 | 24 | | K010831 | 03/23/2023 10:11 | NT1003222328.D | VTS | From BLA0557 by CTO on 16-Mar-2023 |
| 23A0180-01RE1 | LDW23-SC1164 | 20ug/kg solid or 0.2ug/L l | A 05 | 25 | | K010831 | 03/23/2023 10:49 | NT1003222329.D | VTS | From BLA0557 by CTO on 16-Mar-2023 |
| 23A0180-02RE1 | LDW23-SC1164-FD | 20ug/kg solid or 0.2ug/L l | A 05 | 26 | | K010831 | 03/23/2023 11:27 | NT1003222330.D | VTS | From BLA0557 by CTO on 16-Mar-2023 |
| 23A0180-03RE1 | LDW23-SC1158 | 20ug/kg solid or 0.2ug/L l | A 05 | 27 | | K010831 | 03/23/2023 12:05 | NT1003222331.D | VTS | From BLA0557 by CTO on 16-Mar-2023 |
| 23A0180-04RE1 | LDW23-SC1151 | 20ug/kg solid or 0.2ug/L l | A 05 | 28 | | K010831 | 03/23/2023 12:44 | NT1003222332.D | VTS | From BLA0557 by CTO on 16-Mar-2023 |
| SLC0397-CCV1 | Calibration Check | QC | | 29 | K011109 | K010831 | 03/23/2023 13:22 | NT1003222333.D | VTS | |

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230322.b

| Time | Filename | LabID | ClientId | DF | | | | | | | | | | | | | | |
|------|----------|----------------|---------------|----|----------------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|---------|
| 1 | 1727 | NT1003222301.D | SLC0397-TUN1 | 1 | NO ISTDs FOUND | | | | | | | | | | | | | |
| 2 | 1742 | NT1003222302.D | SLC0397-ICV1 | 1 | 9.08 | 122478 | 11.57 | 459261 | 15.19 | 264106 | 18.25 | 503255 | 23.35 | 437735 | 26.02 | 499049 | 24.41 | 700191 |
| 3 | 1820 | NT1003222303.D | SEQ-ICVSIM | 1 | 9.09 | 122467 | 11.57 | 445701 | 15.19 | 253074 | 18.25 | 468010 | 23.35 | 405933 | 26.03 | 462479 | 24.41 | 603265 |
| 4 | 1859 | NT1003222304.D | SLC0397-LCV1 | 1 | 9.09 | 142022 | 11.57 | 504872 | 15.19 | 275869 | 18.25 | 499862 | 23.35 | 433161 | 26.02 | 494952 | 24.41 | 617649 |
| 5 | 1937 | NT1003222305.D | SEQ-LCV100 | 1 | 9.08 | 130399 | 11.57 | 466171 | 15.19 | 252562 | 18.25 | 455086 | 23.34 | 381080 | 26.02 | 438111 | 24.41 | 543177 |
| 6 | 2016 | NT1003222306.D | BLC0442-BLK1 | 1 | 9.08 | 166416 | 11.57 | 591408 | 15.19 | 325327 | 18.25 | 589824 | 23.34 | 493010 | 26.02 | 544575 | 24.41 | 751292 |
| 7 | 2054 | NT1003222307.D | BLC0442-BS1 | 1 | 9.08 | 154744 | 11.57 | 572840 | 15.19 | 327050 | 18.25 | 608606 | 23.35 | 516845 | 26.02 | 580418 | 24.41 | 860923 |
| 8 | 2132 | NT1003222308.D | BLC0442-BSD1 | 1 | 9.08 | 153308 | 11.57 | 557553 | 15.19 | 313522 | 18.25 | 578188 | 23.35 | 508151 | 26.02 | 558473 | 24.41 | 831957 |
| 9 | 2210 | NT1003222309.D | BLC0442-SRM1 | 1 | 9.08 | 176010 | 11.57 | 626650 | 15.19 | 347719 | 18.25 | 641196 | 23.35 | 540321 | 26.02 | 620785 | 24.41 | 939788 |
| 10 | 2249 | NT1003222310.D | 23A0179-01RE1 | 1 | 9.08 | 165652 | 11.57 | 593120 | 15.19 | 325756 | 18.25 | 627650 | 23.35 | 567532 | 26.04 | 668016 | 24.42 | 986968 |
| 11 | 2327 | NT1003222311.D | 23A0179-02RE1 | 1 | 9.09 | 180142 | 11.57 | 649859 | 15.19 | 353953 | 18.25 | 665241 | 23.35 | 587247 | 26.04 | 698935 | 24.42 | 1031564 |
| 12 | 0005 | NT1003222312.D | 23A0179-03RE1 | 1 | 9.08 | 173261 | 11.57 | 629654 | 15.20 | 344777 | 18.25 | 645006 | 23.35 | 581703 | 26.05 | 680067 | 24.42 | 990496 |
| 13 | 0043 | NT1003222313.D | 23A0179-04RE1 | 1 | 9.09 | 164835 | 11.57 | 599493 | 15.20 | 336367 | 18.25 | 643416 | 23.35 | 572423 | 26.05 | 660096 | 24.42 | 994537 |
| 14 | 0121 | NT1003222314.D | 23A0179-05RE1 | 1 | 9.09 | 171604 | 11.57 | 616135 | 15.20 | 340623 | 18.26 | 630416 | 23.35 | 572980 | 26.05 | 664278 | 24.42 | 961985 |
| 15 | 0159 | NT1003222315.D | 23A0179-06RE1 | 1 | 9.09 | 166339 | 11.57 | 614772 | 15.20 | 340891 | 18.26 | 651012 | 23.36 | 595086 | 26.06 | 666096 | 24.43 | 979419 |
| 16 | 0237 | NT1003222316.D | 23A0179-07RE1 | 1 | 9.09 | 161086 | 11.57 | 581202 | 15.20 | 319968 | 18.26 | 603781 | 23.35 | 533437 | 26.05 | 620378 | 24.42 | 923370 |
| 17 | 0315 | NT1003222317.D | SLC0397-ICV2 | 1 | 9.09 | 137603 | 11.57 | 494588 | 15.20 | 278674 | 18.26 | 509229 | 23.35 | 462271 | 26.04 | 551153 | 24.42 | 782572 |
| 18 | 0352 | NT1003222318.D | SEQ-CCVSIM | 1 | 9.09 | 123371 | 11.57 | 446429 | 15.20 | 251878 | 18.25 | 466896 | 23.35 | 425250 | 26.04 | 498507 | 24.42 | 675893 |
| 19 | 0430 | NT1003222319.D | SLC0397-LCV2 | 1 | 9.09 | 136247 | 11.57 | 480759 | 15.20 | 262317 | 18.25 | 483839 | 23.35 | 443368 | 26.05 | 516437 | 24.42 | 679545 |
| 20 | 0508 | NT1003222320.D | SEQ-LCV100 | 1 | 9.09 | 120146 | 11.57 | 424674 | 15.20 | 232871 | 18.25 | 431222 | 23.35 | 380681 | 26.04 | 443838 | 24.42 | 578976 |

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230322.b

| Time | Filename | LabID | ClientId | DF | | | | | | | | | | |
|------|----------|----------------|---------------|----|---|--|------|---------------|---------------|---------------|---------------|---------------|---------------|--------|
| 21 | 0546 | NT1003222321.D | BLC0442-BLK3 | | 1 | | 9.08 | 161589 11.57 | 572184 15.20 | 315580 18.25 | 596777 23.35 | 504797 26.04 | 587644 24.43 | 820765 |
| 22 | 0624 | NT1003222322.D | BLC0442-MS1 | | 1 | | 9.09 | 141251 11.58 | 513214 15.20 | 291010 18.26 | 557499 23.36 | 511293 26.05 | 604025 24.43 | 868170 |
| 23 | 0701 | NT1003222323.D | BLC0442-MSD1 | | 1 | | 9.08 | 143224 11.58 | 532672 15.20 | 295809 18.26 | 575737 23.35 | 496414 26.05 | 583123 24.42 | 863843 |
| 24 | 0739 | NT1003222324.D | 23A0179-08RE1 | | 1 | | 9.09 | 148776 11.58 | 550617 15.20 | 307211 18.26 | 578105 23.36 | 530682 26.06 | 599514 24.43 | 885973 |
| 25 | 0817 | NT1003222325.D | 23A0179-09RE1 | | 1 | | 9.08 | 148527 11.57 | 545849 15.20 | 305553 18.26 | 580255 23.35 | 543015 26.06 | 604455 24.43 | 916417 |
| 26 | 0855 | NT1003222326.D | 23A0179-10RE1 | | 1 | | 9.09 | 147991 11.58 | 539802 15.20 | 305843 18.26 | 575184 23.36 | 538713 26.06 | 599572 24.43 | 905425 |
| 27 | 0933 | NT1003222327.D | 23A0179-11RE1 | | 1 | | 9.09 | 155943 11.58 | 568533 15.20 | 315922 18.26 | 605413 23.36 | 541947 26.06 | 597568 24.44 | 921583 |
| 28 | 1011 | NT1003222328.D | 23A0179-12RE1 | | 1 | | 9.08 | 159763 11.58 | 576470 15.21 | 324467 18.27 | 621505 23.37 | 575362 26.07 | 602076 24.44 | 935621 |
| 29 | 1049 | NT1003222329.D | 23A0180-01RE1 | | 1 | | 9.09 | 145254 11.58 | 532212 15.21 | 297565 18.27 | 574478 23.37 | 520470 26.07 | 558336 24.44 | 839017 |
| 30 | 1127 | NT1003222330.D | 23A0180-02RE1 | | 1 | | 9.08 | 148251 11.58 | 532416 15.21 | 296317 18.27 | 570943 23.37 | 509451 26.08 | 532034 24.44 | 823614 |
| 31 | 1205 | NT1003222331.D | 23A0180-03RE1 | | 1 | | 9.09 | 143040 11.57 | 525497 15.20 | 293707 18.26 | 571286 23.35 | 504676 26.05 | 540499 24.42 | 840395 |
| 32 | 1244 | NT1003222332.D | 23A0180-04RE1 | | 1 | | 9.08 | 131766 11.57 | 490237 15.20 | 275820 18.25 | 521708 23.35 | 490258 26.05 | 520088 24.42 | 791503 |
| 33 | 1322 | NT1003222333.D | SLC0397-CCV1 | | 1 | | 9.09 | 115795 11.57 | 422030 15.20 | 244644 18.25 | 458729 23.35 | 445472 26.02 | 483312 24.41 | 714340 |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230322.b

Instrument: nt10.i Date: 22-MAR-2023

| Time | Filename | LabID | DF | Manually Integrated Compounds |
|------|----------------|---------------|----|---|
| 1727 | NT1003222301.D | SLC0397-TUN1 | 1 | NO MANUAL INTEGRATION |
| 1742 | NT1003222302.D | SLC0397-ICV1 | 1 | 2,2'-oxybis(1-Chloropropane), |
| 1820 | NT1003222303.D | SEQ-ICVSIM | 1 | NO MANUAL INTEGRATION |
| 1859 | NT1003222304.D | SLC0397-LCV1 | 1 | 2,2'-oxybis(1-Chloropropane), 2-Nitrophenol, 2,4-Dinitrophenol, |
| 1937 | NT1003222305.D | SEQ-LCV100 | 1 | NO MANUAL INTEGRATION |
| 2016 | NT1003222306.D | BLC0442-BLK1 | 1 | NO MANUAL INTEGRATION |
| 2054 | NT1003222307.D | BLC0442-BS1 | 1 | NO MANUAL INTEGRATION |
| 2132 | NT1003222308.D | BLC0442-BSD1 | 1 | NO MANUAL INTEGRATION |
| 2210 | NT1003222309.D | BLC0442-SRM1 | 1 | NO MANUAL INTEGRATION |
| 2249 | NT1003222310.D | 23A0179-01RE1 | 1 | 2-Methylphenol, Dibenzo(a,h)anthracene, |
| 2327 | NT1003222311.D | 23A0179-02RE1 | 1 | Benzoic acid, Dibenzo(a,h)anthracene, |
| 0005 | NT1003222312.D | 23A0179-03RE1 | 1 | Dibenzo(a,h)anthracene, |
| 0043 | NT1003222313.D | 23A0179-04RE1 | 1 | Dibenzo(a,h)anthracene, |
| 0121 | NT1003222314.D | 23A0179-05RE1 | 1 | Dibenzo(a,h)anthracene, |
| 0159 | NT1003222315.D | 23A0179-06RE1 | 1 | NO MANUAL INTEGRATION |
| 0237 | NT1003222316.D | 23A0179-07RE1 | 1 | Benzoic acid, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, |
| 0315 | NT1003222317.D | SLC0397-ICV2 | 1 | 2,2'-oxybis(1-Chloropropane), |

Instrument: nt10.i Date: 23-MAR-2023

| Time | Filename | LabID | DF | Manually Integrated Compounds |
|------|----------------|---------------|----|--|
| 0352 | NT1003222318.D | SEQ-CCVSIM | 1 | NO MANUAL INTEGRATION |
| 0430 | NT1003222319.D | SLC0397-LCV2 | 1 | 2,2'-oxybis(1-Chloropropane), 4-Nitrophenol, |
| 0508 | NT1003222320.D | SEQ-LCV100 | 1 | NO MANUAL INTEGRATION |
| 0546 | NT1003222321.D | BLC0442-BLK3 | 1 | NO MANUAL INTEGRATION |
| 0624 | NT1003222322.D | BLC0442-MS1 | 1 | 4-Chloroaniline, Pyridine, |
| 0701 | NT1003222323.D | BLC0442-MSD1 | 1 | Pyridine, |
| 0739 | NT1003222324.D | 23A0179-08RE1 | 1 | NO MANUAL INTEGRATION |
| 0817 | NT1003222325.D | 23A0179-09RE1 | 1 | 2-Methylphenol, Dibenzo(a,h)anthracene, |
| 0855 | NT1003222326.D | 23A0179-10RE1 | 1 | 2-Methylphenol, Dibenzo(a,h)anthracene, |
| 0933 | NT1003222327.D | 23A0179-11RE1 | 1 | 2-Methylphenol, Dibenzo(a,h)anthracene, |
| 1011 | NT1003222328.D | 23A0179-12RE1 | 1 | Benzoic acid, Dibenzo(a,h)anthracene, |
| 1049 | NT1003222329.D | 23A0180-01RE1 | 1 | Benzoic acid, |
| 1127 | NT1003222330.D | 23A0180-02RE1 | 1 | Benzoic acid, Dibenzo(a,h)anthracene, |
| 1205 | NT1003222331.D | 23A0180-03RE1 | 1 | Benzoic acid, |
| 1244 | NT1003222332.D | 23A0180-04RE1 | 1 | Benzoic acid, Dibenzo(a,h)anthracene, |
| 1322 | NT1003222333.D | SLC0397-CCV1 | 1 | 2,2'-oxybis(1-Chloropropane), |

Security Status Report

Date: 25-Mar-2023 10:49

| | | | | |
|----------------|-------------|------|-------------|-------|
| NT1003222301.D | Data Locked | van, | 25-Mar-2023 | 10:49 |
| NT1003222302.D | Data Locked | van, | 25-Mar-2023 | 10:49 |
| NT1003222303.D | Data Locked | van, | 25-Mar-2023 | 10:49 |
| NT1003222304.D | Data Locked | van, | 25-Mar-2023 | 10:49 |
| NT1003222305.D | Data Locked | van, | 25-Mar-2023 | 10:49 |
| NT1003222306.D | Data Locked | van, | 25-Mar-2023 | 10:49 |
| NT1003222307.D | Data Locked | van, | 25-Mar-2023 | 10:49 |
| NT1003222308.D | Data Locked | van, | 25-Mar-2023 | 10:49 |
| NT1003222309.D | Data Locked | van, | 25-Mar-2023 | 10:49 |
| NT1003222310.D | Data Locked | van, | 25-Mar-2023 | 10:49 |
| NT1003222311.D | Data Locked | van, | 25-Mar-2023 | 10:49 |
| NT1003222312.D | Data Locked | van, | 25-Mar-2023 | 10:49 |
| NT1003222313.D | Data Locked | van, | 25-Mar-2023 | 10:49 |
| NT1003222314.D | Data Locked | van, | 25-Mar-2023 | 10:49 |
| NT1003222315.D | Data Locked | van, | 25-Mar-2023 | 10:49 |
| NT1003222316.D | Data Locked | van, | 25-Mar-2023 | 10:49 |
| NT1003222317.D | Data Locked | van, | 25-Mar-2023 | 10:49 |
| NT1003222318.D | Data Locked | van, | 25-Mar-2023 | 10:49 |
| NT1003222319.D | Data Locked | van, | 25-Mar-2023 | 10:49 |
| NT1003222320.D | Data Locked | van, | 25-Mar-2023 | 10:49 |
| NT1003222321.D | Data Locked | van, | 25-Mar-2023 | 10:49 |
| NT1003222322.D | Data Locked | van, | 25-Mar-2023 | 10:49 |
| NT1003222323.D | Data Locked | van, | 25-Mar-2023 | 10:49 |
| NT1003222324.D | Data Locked | van, | 25-Mar-2023 | 10:49 |
| NT1003222325.D | Data Locked | van, | 25-Mar-2023 | 10:49 |
| NT1003222326.D | Data Locked | van, | 25-Mar-2023 | 10:49 |
| NT1003222327.D | Data Locked | van, | 25-Mar-2023 | 10:49 |
| NT1003222328.D | Data Locked | van, | 25-Mar-2023 | 10:49 |
| NT1003222329.D | Data Locked | van, | 25-Mar-2023 | 10:49 |
| NT1003222330.D | Data Locked | van, | 25-Mar-2023 | 10:49 |
| NT1003222331.D | Data Locked | van, | 25-Mar-2023 | 10:49 |
| NT1003222332.D | Data Locked | van, | 25-Mar-2023 | 10:49 |
| NT1003222333.D | Data Locked | van, | 25-Mar-2023 | 10:49 |



SURROGATE RECOVERY AND RT SUMMARY
EPA 8270E

Laboratory: Analytical Resources, LLC SDG/WO: 23A0180
 Client: Anchor QEA, LLC Project: AOC5 MR Phase 1
 Sequence: SLB0374 Instrument: NT14
 Calibration: GC00033 Calibration Date: 02/28/2023

| Surrogate Compound | Spike Level ug/mL | % Recovery | Recovery Limits | RT | Calibration Mean RT | RT Diff | RT Diff Limit | Q |
|-----------------------------|-------------------|-----------------------------|-----------------|--------|---------------------|--------------------------|---------------|---|
| SLB0374-ICB1 (Water) | | Lab File ID: NT1423022811.D | | | | Analyzed: 02/28/23 17:04 | | |
| 2-Fluorophenol | 7.5000 | 98.9 | 30 - 160 | 6.058 | 6.074857 | -0.0169 | N/A | |
| Phenol-d5 | 7.5000 | 96.8 | 30 - 160 | 7.635 | 7.653143 | -0.0181 | N/A | |
| 2-Chlorophenol-d4 | 7.5000 | 91.4 | 30 - 160 | 7.859 | 7.869429 | -0.0104 | N/A | |
| 1,2-Dichlorobenzene-d4 | 5.0000 | 92.7 | 30 - 160 | 8.564 | 8.566 | -0.0020 | N/A | |
| Nitrobenzene-d5 | 5.0000 | 94.5 | 30 - 160 | 9.301 | 9.31 | -0.0090 | N/A | |
| 2-Fluorobiphenyl | 5.0000 | 93.6 | 30 - 160 | 12.885 | 12.89071 | -0.0057 | N/A | |
| 2,4,6-Tribromophenol | 7.5000 | 60.4 | 30 - 160 | 15.878 | 15.88714 | -0.0091 | N/A | |
| p-Terphenyl-d14 | 5.0000 | 98.6 | 30 - 160 | 20.479 | 20.48257 | -0.0036 | N/A | |
| SLB0374-ICV1 (Water) | | Lab File ID: NT1423022813.D | | | | Analyzed: 03/01/23 08:50 | | |
| 2-Fluorophenol | 7.5000 | 118 | 80 - 120 | 6.035 | 6.074857 | -0.0399 | N/A | |
| Phenol-d5 | 7.5000 | 112 | 80 - 120 | 7.619 | 7.653143 | -0.0341 | N/A | |
| 2-Chlorophenol-d4 | 7.5000 | 108 | 80 - 120 | 7.843 | 7.869429 | -0.0264 | N/A | |
| 1,2-Dichlorobenzene-d4 | 5.0000 | 98.3 | 80 - 120 | 8.54 | 8.566 | -0.0260 | N/A | |
| Nitrobenzene-d5 | 5.0000 | 111 | 80 - 120 | 9.278 | 9.31 | -0.0320 | N/A | |
| 2-Fluorobiphenyl | 5.0000 | 99.2 | 80 - 120 | 12.87 | 12.89071 | -0.0207 | N/A | |
| 2,4,6-Tribromophenol | 7.5000 | 99.6 | 80 - 120 | 15.862 | 15.88714 | -0.0251 | N/A | |
| p-Terphenyl-d14 | 5.0000 | 102 | 80 - 120 | 20.464 | 20.48257 | -0.0186 | N/A | |
| SLB0374-ICV2 (Water) | | Lab File ID: NT1423022821.D | | | | Analyzed: 03/01/23 13:39 | | |
| 2-Fluorophenol | 7.5000 | 118 | 80 - 120 | 6.05 | 6.074857 | -0.0249 | N/A | |
| Phenol-d5 | 7.5000 | 115 | 80 - 120 | 7.634 | 7.653143 | -0.0191 | N/A | |
| 2-Chlorophenol-d4 | 7.5000 | 103 | 80 - 120 | 7.85 | 7.869429 | -0.0194 | N/A | |
| 1,2-Dichlorobenzene-d4 | 5.0000 | 97.2 | 80 - 120 | 8.548 | 8.566 | -0.0180 | N/A | |
| Nitrobenzene-d5 | 5.0000 | 115 | 80 - 120 | 9.285 | 9.31 | -0.0250 | N/A | |
| 2-Fluorobiphenyl | 5.0000 | 100 | 80 - 120 | 12.877 | 12.89071 | -0.0137 | N/A | |
| 2,4,6-Tribromophenol | 7.5000 | 106 | 80 - 120 | 15.87 | 15.88714 | -0.0171 | N/A | |
| p-Terphenyl-d14 | 5.0000 | 97.7 | 80 - 120 | 20.471 | 20.48257 | -0.0116 | N/A | |



SURROGATE RECOVERY AND RT SUMMARY
EPA 8270E

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLB0374
Calibration: GC00033

SDG/WO: 23A0180
Project: AOC5 MR Phase 1
Instrument: NT14
Calibration Date: 02/28/2023

| Surrogate Compound | Spike Level ug/mL | % Recovery | Recovery Limits | RT | Calibration Mean RT | RT Diff | RT Diff Limit | Q |
|-----------------------------|-------------------|-----------------------------|-----------------|--------|--------------------------|---------|---------------|---|
| SLB0374-LCV1 (Water) | | Lab File ID: NT1423022823.D | | | Analyzed: 03/01/23 14:51 | | | |
| 2-Fluorophenol | 0.30000 | 72.5 | 50 - 150 | 6.066 | 6.074857 | -0.0089 | N/A | |
| Phenol-d5 | 0.30000 | 83.9 | 50 - 150 | 7.65 | 7.653143 | -0.0031 | N/A | |
| 2-Chlorophenol-d4 | 0.30000 | 90.5 | 50 - 150 | 7.858 | 7.869429 | -0.0114 | N/A | |
| 1,2-Dichlorobenzene-d4 | 0.20000 | 97.8 | 50 - 150 | 8.548 | 8.566 | -0.0180 | N/A | |
| Nitrobenzene-d5 | 0.20000 | 98.7 | 50 - 150 | 9.293 | 9.31 | -0.0170 | N/A | |
| 2-Fluorobiphenyl | 0.20000 | 103 | 50 - 150 | 12.869 | 12.89071 | -0.0217 | N/A | |
| 2,4,6-Tribromophenol | 0.30000 | 69.1 | 50 - 150 | 15.877 | 15.88714 | -0.0101 | N/A | |
| p-Terphenyl-d14 | 0.20000 | 99.3 | 50 - 150 | 20.464 | 20.48257 | -0.0186 | N/A | |
| SLB0374-LCV2 (Water) | | Lab File ID: NT1423022825.D | | | Analyzed: 03/01/23 16:04 | | | |
| 2-Fluorophenol | 0.75000 | 92.0 | 50 - 150 | 6.05 | 6.074857 | -0.0249 | N/A | |
| Phenol-d5 | 0.75000 | 100 | 50 - 150 | 7.634 | 7.653143 | -0.0191 | N/A | |
| 2-Chlorophenol-d4 | 0.75000 | 100 | 50 - 150 | 7.85 | 7.869429 | -0.0194 | N/A | |
| 1,2-Dichlorobenzene-d4 | 0.50000 | 102 | 50 - 150 | 8.548 | 8.566 | -0.0180 | N/A | |
| Nitrobenzene-d5 | 0.50000 | 108 | 50 - 150 | 9.285 | 9.31 | -0.0250 | N/A | |
| 2-Fluorobiphenyl | 0.50000 | 105 | 50 - 150 | 12.869 | 12.89071 | -0.0217 | N/A | |
| 2,4,6-Tribromophenol | 0.75000 | 83.1 | 50 - 150 | 15.869 | 15.88714 | -0.0181 | N/A | |
| p-Terphenyl-d14 | 0.50000 | 103 | 50 - 150 | 20.464 | 20.48257 | -0.0186 | N/A | |
| BLA0557-BLK1 (Solid) | | Lab File ID: NT1423022826.D | | | Analyzed: 03/01/23 16:40 | | | |
| 2-Fluorophenol | 750.00 | 74.8 | 27 - 120 | 6.058 | 6.074857 | -0.0169 | N/A | |
| Phenol-d5 | 750.00 | 75.3 | 29 - 120 | 7.634 | 7.653143 | -0.0191 | N/A | |
| 2-Chlorophenol-d4 | 750.00 | 74.0 | 31 - 120 | 7.843 | 7.869429 | -0.0264 | N/A | |
| 1,2-Dichlorobenzene-d4 | 500.00 | 74.6 | 32 - 120 | 8.54 | 8.566 | -0.0260 | N/A | |
| Nitrobenzene-d5 | 500.00 | 89.7 | 30 - 120 | 9.278 | 9.31 | -0.0320 | N/A | |
| 2-Fluorobiphenyl | 500.00 | 83.0 | 35 - 120 | 12.87 | 12.89071 | -0.0207 | N/A | |
| 2,4,6-Tribromophenol | 750.00 | 64.2 | 24 - 134 | 15.862 | 15.88714 | -0.0251 | N/A | |
| p-Terphenyl-d14 | 500.00 | 97.8 | 37 - 120 | 20.464 | 20.48257 | -0.0186 | N/A | |



SURROGATE RECOVERY AND RT SUMMARY
EPA 8270E

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLB0374
Calibration: GC00033

SDG/WO: 23A0180
Project: AOC5 MR Phase 1
Instrument: NT14
Calibration Date: 02/28/2023

| Surrogate Compound | Spike Level ug/kg wet | % Recovery | Recovery Limits | RT | Calibration Mean RT | RT Diff | RT Diff Limit | Q |
|--|-----------------------|------------|-----------------|--------|---------------------|---------|---------------|---|
| BLA0557-BS1 (Solid) Lab File ID: NT1423022827.D Analyzed: 03/01/23 17:16 | | | | | | | | |
| 2-Fluorophenol | 750.00 | 80.9 | 27 - 120 | 6.066 | 6.074857 | -0.0089 | N/A | |
| Phenol-d5 | 750.00 | 83.0 | 29 - 120 | 7.634 | 7.653143 | -0.0191 | N/A | |
| 2-Chlorophenol-d4 | 750.00 | 74.8 | 31 - 120 | 7.843 | 7.869429 | -0.0264 | N/A | |
| 1,2-Dichlorobenzene-d4 | 500.00 | 66.7 | 32 - 120 | 8.54 | 8.566 | -0.0260 | N/A | |
| Nitrobenzene-d5 | 500.00 | 83.6 | 30 - 120 | 9.285 | 9.31 | -0.0250 | N/A | |
| 2-Fluorobiphenyl | 500.00 | 78.2 | 35 - 120 | 12.87 | 12.89071 | -0.0207 | N/A | |
| 2,4,6-Tribromophenol | 750.00 | 92.0 | 24 - 134 | 15.87 | 15.88714 | -0.0171 | N/A | |
| p-Terphenyl-d14 | 500.00 | 93.9 | 37 - 120 | 20.464 | 20.48257 | -0.0186 | N/A | |
| BLA0557-BSD1 (Solid) Lab File ID: NT1423022828.D Analyzed: 03/01/23 17:52 | | | | | | | | |
| 2-Fluorophenol | 750.00 | 85.9 | 27 - 120 | 6.066 | 6.074857 | -0.0089 | N/A | |
| Phenol-d5 | 750.00 | 88.1 | 29 - 120 | 7.634 | 7.653143 | -0.0191 | N/A | |
| 2-Chlorophenol-d4 | 750.00 | 79.9 | 31 - 120 | 7.85 | 7.869429 | -0.0194 | N/A | |
| 1,2-Dichlorobenzene-d4 | 500.00 | 71.9 | 32 - 120 | 8.54 | 8.566 | -0.0260 | N/A | |
| Nitrobenzene-d5 | 500.00 | 88.3 | 30 - 120 | 9.285 | 9.31 | -0.0250 | N/A | |
| 2-Fluorobiphenyl | 500.00 | 84.5 | 35 - 120 | 12.87 | 12.89071 | -0.0207 | N/A | |
| 2,4,6-Tribromophenol | 750.00 | 96.3 | 24 - 134 | 15.87 | 15.88714 | -0.0171 | N/A | |
| p-Terphenyl-d14 | 500.00 | 94.8 | 37 - 120 | 20.464 | 20.48257 | -0.0186 | N/A | |
| BLA0557-SRM1 (Solid) Lab File ID: NT1423022829.D Analyzed: 03/01/23 18:28 | | | | | | | | |
| 2-Fluorophenol | 7500.0 | 86.0 | 27 - 120 | 6.066 | 6.074857 | -0.0089 | N/A | |
| Phenol-d5 | 7500.0 | 84.2 | 29 - 120 | 7.634 | 7.653143 | -0.0191 | N/A | |
| 2-Chlorophenol-d4 | 7500.0 | 78.3 | 31 - 120 | 7.843 | 7.869429 | -0.0264 | N/A | |
| 1,2-Dichlorobenzene-d4 | 5000.0 | 69.1 | 32 - 120 | 8.54 | 8.566 | -0.0260 | N/A | |
| Nitrobenzene-d5 | 5000.0 | 82.9 | 30 - 120 | 9.278 | 9.31 | -0.0320 | N/A | |
| 2-Fluorobiphenyl | 5000.0 | 80.4 | 35 - 120 | 12.87 | 12.89071 | -0.0207 | N/A | |
| 2,4,6-Tribromophenol | 7500.0 | 96.7 | 24 - 134 | 15.862 | 15.88714 | -0.0251 | N/A | |
| p-Terphenyl-d14 | 5000.0 | 96.2 | 37 - 120 | 20.464 | 20.48257 | -0.0186 | N/A | |



SURROGATE RECOVERY AND RT SUMMARY
EPA 8270E

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLB0374
Calibration: GC00033

SDG/WO: 23A0180
Project: AOC5 MR Phase 1
Instrument: NT14
Calibration Date: 02/28/2023

| Surrogate Compound | Spike Level ug/mL | % Recovery | Recovery Limits | RT | Calibration Mean RT | RT Diff | RT Diff Limit | Q |
|-----------------------------|-------------------|-----------------------------|-----------------|--------|--------------------------|---------|---------------|---|
| SLB0374-ICV3 (Water) | | Lab File ID: NT1423022836.D | | | Analyzed: 03/01/23 22:40 | | | |
| 2-Fluorophenol | 7.5000 | 121 | 80 - 120 | 6.05 | 6.074857 | -0.0249 | N/A | * |
| Phenol-d5 | 7.5000 | 116 | 80 - 120 | 7.642 | 7.653143 | -0.0111 | N/A | |
| 2-Chlorophenol-d4 | 7.5000 | 103 | 80 - 120 | 7.85 | 7.869429 | -0.0194 | N/A | |
| 1,2-Dichlorobenzene-d4 | 5.0000 | 96.8 | 80 - 120 | 8.548 | 8.566 | -0.0180 | N/A | |
| Nitrobenzene-d5 | 5.0000 | 117 | 80 - 120 | 9.285 | 9.31 | -0.0250 | N/A | |
| 2-Fluorobiphenyl | 5.0000 | 99.6 | 80 - 120 | 12.877 | 12.89071 | -0.0137 | N/A | |
| 2,4,6-Tribromophenol | 7.5000 | 101 | 80 - 120 | 15.87 | 15.88714 | -0.0171 | N/A | |
| p-Terphenyl-d14 | 5.0000 | 87.2 | 80 - 120 | 20.471 | 20.48257 | -0.0116 | N/A | |
| SLB0374-LCV3 (Water) | | Lab File ID: NT1423022838.D | | | Analyzed: 03/01/23 23:52 | | | |
| 2-Fluorophenol | 0.30000 | 102 | 50 - 150 | 6.073 | 6.074857 | -0.0019 | N/A | |
| Phenol-d5 | 0.30000 | 94.4 | 50 - 150 | 7.657 | 7.653143 | 0.0039 | N/A | |
| 2-Chlorophenol-d4 | 0.30000 | 92.9 | 50 - 150 | 7.858 | 7.869429 | -0.0114 | N/A | |
| 1,2-Dichlorobenzene-d4 | 0.20000 | 95.9 | 50 - 150 | 8.556 | 8.566 | -0.0100 | N/A | |
| Nitrobenzene-d5 | 0.20000 | 97.3 | 50 - 150 | 9.293 | 9.31 | -0.0170 | N/A | |
| 2-Fluorobiphenyl | 0.20000 | 104 | 50 - 150 | 12.877 | 12.89071 | -0.0137 | N/A | |
| 2,4,6-Tribromophenol | 0.30000 | 67.8 | 50 - 150 | 15.877 | 15.88714 | -0.0101 | N/A | |
| p-Terphenyl-d14 | 0.20000 | 90.4 | 50 - 150 | 20.471 | 20.48257 | -0.0116 | N/A | |
| SLB0374-LCV4 (Water) | | Lab File ID: NT1423022839.D | | | Analyzed: 03/02/23 00:28 | | | |
| 2-Fluorophenol | 0.75000 | 90.9 | 50 - 150 | 6.058 | 6.074857 | -0.0169 | N/A | |
| Phenol-d5 | 0.75000 | 96.0 | 50 - 150 | 7.642 | 7.653143 | -0.0111 | N/A | |
| 2-Chlorophenol-d4 | 0.75000 | 101 | 50 - 150 | 7.858 | 7.869429 | -0.0114 | N/A | |
| 1,2-Dichlorobenzene-d4 | 0.50000 | 99.7 | 50 - 150 | 8.548 | 8.566 | -0.0180 | N/A | |
| Nitrobenzene-d5 | 0.50000 | 110 | 50 - 150 | 9.293 | 9.31 | -0.0170 | N/A | |
| 2-Fluorobiphenyl | 0.50000 | 104 | 50 - 150 | 12.878 | 12.89071 | -0.0127 | N/A | |
| 2,4,6-Tribromophenol | 0.75000 | 72.3 | 50 - 150 | 15.87 | 15.88714 | -0.0171 | N/A | |
| p-Terphenyl-d14 | 0.50000 | 93.1 | 50 - 150 | 20.472 | 20.48257 | -0.0106 | N/A | |



SURROGATE RECOVERY AND RT SUMMARY
EPA 8270E

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLB0374
Calibration: GC00033

SDG/WO: 23A0180
Project: AOC5 MR Phase 1
Instrument: NT14
Calibration Date: 02/28/2023

| Surrogate Compound | Spike Level ug/kg dry | % Recovery | Recovery Limits | RT | Calibration Mean RT | RT Diff | RT Diff Limit | Q |
|--|-----------------------|------------|-----------------|--------|---------------------|---------|---------------|---|
| 23A0180-01 (Solid) Lab File ID: NT1423022844.D Analyzed: 03/02/23 03:27 | | | | | | | | |
| 2-Fluorophenol | 746.18 | 81.0 | 27 - 120 | 6.073 | 6.074857 | -0.0019 | N/A | |
| Phenol-d5 | 746.18 | 80.6 | 29 - 120 | 7.65 | 7.653143 | -0.0031 | N/A | |
| 2-Chlorophenol-d4 | 746.18 | 75.0 | 31 - 120 | 7.858 | 7.869429 | -0.0114 | N/A | |
| 1,2-Dichlorobenzene-d4 | 497.46 | 68.4 | 32 - 120 | 8.556 | 8.566 | -0.0100 | N/A | |
| Nitrobenzene-d5 | 497.46 | 87.4 | 30 - 120 | 9.285 | 9.31 | -0.0250 | N/A | |
| 2-Fluorobiphenyl | 497.46 | 81.2 | 35 - 120 | 12.877 | 12.89071 | -0.0137 | N/A | |
| 2,4,6-Tribromophenol | 746.18 | 85.4 | 24 - 134 | 15.877 | 15.88714 | -0.0101 | N/A | |
| p-Terphenyl-d14 | 497.46 | 77.2 | 37 - 120 | 20.495 | 20.48257 | 0.0124 | N/A | |
| 23A0180-02 (Solid) Lab File ID: NT1423022845.D Analyzed: 03/02/23 04:03 | | | | | | | | |
| 2-Fluorophenol | 745.04 | 88.4 | 27 - 120 | 6.074 | 6.074857 | -0.0009 | N/A | |
| Phenol-d5 | 745.04 | 86.1 | 29 - 120 | 7.65 | 7.653143 | -0.0031 | N/A | |
| 2-Chlorophenol-d4 | 745.04 | 81.8 | 31 - 120 | 7.858 | 7.869429 | -0.0114 | N/A | |
| 1,2-Dichlorobenzene-d4 | 496.69 | 71.3 | 32 - 120 | 8.556 | 8.566 | -0.0100 | N/A | |
| Nitrobenzene-d5 | 496.69 | 90.8 | 30 - 120 | 9.294 | 9.31 | -0.0160 | N/A | |
| 2-Fluorobiphenyl | 496.69 | 83.0 | 35 - 120 | 12.878 | 12.89071 | -0.0127 | N/A | |
| 2,4,6-Tribromophenol | 745.04 | 90.0 | 24 - 134 | 15.878 | 15.88714 | -0.0091 | N/A | |
| p-Terphenyl-d14 | 496.69 | 77.5 | 37 - 120 | 20.495 | 20.48257 | 0.0124 | N/A | |
| 23A0180-03 (Solid) Lab File ID: NT1423022846.D Analyzed: 03/02/23 04:39 | | | | | | | | |
| 2-Fluorophenol | 721.51 | 84.0 | 27 - 120 | 6.081 | 6.074857 | 0.0061 | N/A | |
| Phenol-d5 | 721.51 | 81.4 | 29 - 120 | 7.65 | 7.653143 | -0.0031 | N/A | |
| 2-Chlorophenol-d4 | 721.51 | 81.9 | 31 - 120 | 7.858 | 7.869429 | -0.0114 | N/A | |
| 1,2-Dichlorobenzene-d4 | 481.00 | 65.9 | 32 - 120 | 8.556 | 8.566 | -0.0100 | N/A | |
| Nitrobenzene-d5 | 481.00 | 84.7 | 30 - 120 | 9.293 | 9.31 | -0.0170 | N/A | |
| 2-Fluorobiphenyl | 481.00 | 76.1 | 35 - 120 | 12.877 | 12.89071 | -0.0137 | N/A | |
| 2,4,6-Tribromophenol | 721.51 | 84.2 | 24 - 134 | 15.877 | 15.88714 | -0.0101 | N/A | |
| p-Terphenyl-d14 | 481.00 | 71.8 | 37 - 120 | 20.495 | 20.48257 | 0.0124 | N/A | |



SURROGATE RECOVERY AND RT SUMMARY
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG/WO: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Sequence: SLB0374

Instrument: NT14

Calibration: GC00033

Calibration Date: 02/28/2023

| Surrogate Compound | Spike Level ug/kg dry | % Recovery | Recovery Limits | RT | Calibration Mean RT | RT Diff | RT Diff Limit | Q |
|-----------------------------|-----------------------|-----------------------------|-----------------|--------|--------------------------|---------|---------------|---|
| 23A0180-04 (Solid) | | Lab File ID: NT1423022847.D | | | Analyzed: 03/02/23 05:15 | | | |
| 2-Fluorophenol | 745.21 | 88.9 | 27 - 120 | 6.081 | 6.074857 | 0.0061 | N/A | |
| Phenol-d5 | 745.21 | 87.1 | 29 - 120 | 7.65 | 7.653143 | -0.0031 | N/A | |
| 2-Chlorophenol-d4 | 745.21 | 80.9 | 31 - 120 | 7.866 | 7.869429 | -0.0034 | N/A | |
| 1,2-Dichlorobenzene-d4 | 496.80 | 71.5 | 32 - 120 | 8.556 | 8.566 | -0.0100 | N/A | |
| Nitrobenzene-d5 | 496.80 | 90.6 | 30 - 120 | 9.293 | 9.31 | -0.0170 | N/A | |
| 2-Fluorobiphenyl | 496.80 | 82.0 | 35 - 120 | 12.885 | 12.89071 | -0.0057 | N/A | |
| 2,4,6-Tribromophenol | 745.21 | 88.4 | 24 - 134 | 15.885 | 15.88714 | -0.0021 | N/A | |
| p-Terphenyl-d14 | 496.80 | 77.5 | 37 - 120 | 20.495 | 20.48257 | 0.0124 | N/A | |
| SLB0374-ICV4 (Water) | | Lab File ID: NT1423022848.D | | | Analyzed: 03/02/23 05:52 | | | |
| 2-Fluorophenol | 7.5000 | 124 | 80 - 120 | 6.066 | 6.074857 | -0.0089 | N/A | * |
| Phenol-d5 | 7.5000 | 119 | 80 - 120 | 7.65 | 7.653143 | -0.0031 | N/A | |
| 2-Chlorophenol-d4 | 7.5000 | 116 | 80 - 120 | 7.858 | 7.869429 | -0.0114 | N/A | |
| 1,2-Dichlorobenzene-d4 | 5.0000 | 97.7 | 80 - 120 | 8.556 | 8.566 | -0.0100 | N/A | |
| Nitrobenzene-d5 | 5.0000 | 119 | 80 - 120 | 9.293 | 9.31 | -0.0170 | N/A | |
| 2-Fluorobiphenyl | 5.0000 | 101 | 80 - 120 | 12.885 | 12.89071 | -0.0057 | N/A | |
| 2,4,6-Tribromophenol | 7.5000 | 99.8 | 80 - 120 | 15.885 | 15.88714 | -0.0021 | N/A | |
| p-Terphenyl-d14 | 5.0000 | 86.9 | 80 - 120 | 20.479 | 20.48257 | -0.0036 | N/A | |
| SLB0374-LCV5 (Water) | | Lab File ID: NT1423022850.D | | | Analyzed: 03/02/23 07:04 | | | |
| 2-Fluorophenol | 0.30000 | 72.0 | 50 - 150 | 6.081 | 6.074857 | 0.0061 | N/A | |
| Phenol-d5 | 0.30000 | 78.8 | 50 - 150 | 7.665 | 7.653143 | 0.0119 | N/A | |
| 2-Chlorophenol-d4 | 0.30000 | 93.8 | 50 - 150 | 7.874 | 7.869429 | 0.0046 | N/A | |
| 1,2-Dichlorobenzene-d4 | 0.20000 | 96.9 | 50 - 150 | 8.564 | 8.566 | -0.0020 | N/A | |
| Nitrobenzene-d5 | 0.20000 | 102 | 50 - 150 | 9.309 | 9.31 | -0.0010 | N/A | |
| 2-Fluorobiphenyl | 0.20000 | 104 | 50 - 150 | 12.885 | 12.89071 | -0.0057 | N/A | |
| 2,4,6-Tribromophenol | 0.30000 | 74.9 | 50 - 150 | 15.893 | 15.88714 | 0.0059 | N/A | |
| p-Terphenyl-d14 | 0.20000 | 89.8 | 50 - 150 | 20.487 | 20.48257 | 0.0044 | N/A | |



SURROGATE RECOVERY AND RT SUMMARY
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG/WO: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Sequence: SLB0374

Instrument: NT14

Calibration: GC00033

Calibration Date: 02/28/2023

| Surrogate Compound | Spike Level ug/mL | % Recovery | Recovery Limits | RT | Calibration Mean RT | RT Diff | RT Diff Limit | Q |
|-----------------------------|-------------------|-----------------------------|-----------------|--------|--------------------------|---------|---------------|---|
| SLB0374-LCV6 (Water) | | Lab File ID: NT1423022851.D | | | Analyzed: 03/02/23 07:40 | | | |
| 2-Fluorophenol | 0.75000 | 92.6 | 50 - 150 | 6.074 | 6.074857 | -0.0009 | N/A | |
| Phenol-d5 | 0.75000 | 107 | 50 - 150 | 7.658 | 7.653143 | 0.0049 | N/A | |
| 2-Chlorophenol-d4 | 0.75000 | 113 | 50 - 150 | 7.866 | 7.869429 | -0.0034 | N/A | |
| 1,2-Dichlorobenzene-d4 | 0.50000 | 102 | 50 - 150 | 8.556 | 8.566 | -0.0100 | N/A | |
| Nitrobenzene-d5 | 0.50000 | 110 | 50 - 150 | 9.301 | 9.31 | -0.0090 | N/A | |
| 2-Fluorobiphenyl | 0.50000 | 105 | 50 - 150 | 12.885 | 12.89071 | -0.0057 | N/A | |
| 2,4,6-Tribromophenol | 0.75000 | 77.4 | 50 - 150 | 15.885 | 15.88714 | -0.0021 | N/A | |
| p-Terphenyl-d14 | 0.50000 | 92.4 | 50 - 150 | 20.479 | 20.48257 | -0.0036 | N/A | |
| SLB0374-CCV1 (Water) | | Lab File ID: NT1423022856.D | | | Analyzed: 03/02/23 10:41 | | | |
| 2-Fluorophenol | 7.5000 | 122 | 50 - 150 | 6.058 | 6.074857 | -0.0169 | N/A | |
| Phenol-d5 | 7.5000 | 120 | 50 - 150 | 7.65 | 7.653143 | -0.0031 | N/A | |
| 2-Chlorophenol-d4 | 7.5000 | 105 | 50 - 150 | 7.859 | 7.869429 | -0.0104 | N/A | |
| 1,2-Dichlorobenzene-d4 | 5.0000 | 98.5 | 50 - 150 | 8.556 | 8.566 | -0.0100 | N/A | |
| Nitrobenzene-d5 | 5.0000 | 120 | 50 - 150 | 9.294 | 9.31 | -0.0160 | N/A | |
| 2-Fluorobiphenyl | 5.0000 | 100 | 50 - 150 | 12.885 | 12.89071 | -0.0057 | N/A | |
| 2,4,6-Tribromophenol | 7.5000 | 99.4 | 50 - 150 | 15.878 | 15.88714 | -0.0091 | N/A | |
| p-Terphenyl-d14 | 5.0000 | 90.6 | 50 - 150 | 20.479 | 20.48257 | -0.0036 | N/A | |



SURROGATE RECOVERY AND RT SUMMARY
EPA 8270E

Laboratory: Analytical Resources, LLC
Client: Anchor OEA, LLC
Sequence: SLC0228
Calibration: GC00046

SDG/WO: 23A0180
Project: AOC5 MR Phase 1
Instrument: NT10
Calibration Date: 03/16/2023

| Surrogate Compound | Spike Level ug/mL | % Recovery | Recovery Limits | RT | Calibration Mean RT | RT Diff | RT Diff Limit | Q |
|-----------------------------|-------------------|---------------------------|-----------------|--------|--------------------------|----------|---------------|---|
| SLC0228-SCV1 (Solid) | | Lab File ID: NT10031511.D | | | Analyzed: 03/16/23 02:16 | | | |
| 2-Fluorophenol | | | 80 - 120 | | 7.067714 | -7.0677 | N/A | |
| Phenol-d5 | | | 80 - 120 | | 8.638143 | -8.6381 | N/A | |
| 2-Chlorophenol-d4 | | | 80 - 120 | | 8.931857 | -8.9319 | N/A | |
| 1,2-Dichlorobenzene-d4 | | | 80 - 120 | | 9.659143 | -9.6591 | N/A | |
| Nitrobenzene-d5 | | | 80 - 120 | | 10.389 | -10.3890 | N/A | |
| 2-Fluorobiphenyl | | | 80 - 120 | | 13.982 | -13.9820 | N/A | |
| 2,4,6-Tribromophenol | | | 80 - 120 | | 17.02143 | -17.0214 | N/A | |
| p-Terphenyl-d14 | | | 80 - 120 | | 21.54257 | -21.5426 | N/A | |
| SLC0228-ICB1 (Solid) | | Lab File ID: NT10031512.D | | | Analyzed: 03/16/23 02:54 | | | |
| 2-Fluorophenol | 7.5000 | 92.3 | 27 - 120 | 7.067 | 7.067714 | -0.0007 | N/A | |
| Phenol-d5 | 7.5000 | 92.6 | 29 - 120 | 8.636 | 8.638143 | -0.0021 | N/A | |
| 2-Chlorophenol-d4 | 7.5000 | 94.7 | 31 - 120 | 8.929 | 8.931857 | -0.0029 | N/A | |
| 1,2-Dichlorobenzene-d4 | 5.0000 | 92.2 | 32 - 120 | 9.658 | 9.659143 | -0.0011 | N/A | |
| Nitrobenzene-d5 | 5.0000 | 93.1 | 30 - 120 | 10.387 | 10.389 | -0.0020 | N/A | |
| 2-Fluorobiphenyl | 5.0000 | 94.6 | 35 - 120 | 13.981 | 13.982 | -0.0010 | N/A | |
| 2,4,6-Tribromophenol | 7.5000 | 74.6 | 24 - 134 | 17.02 | 17.02143 | -0.0014 | N/A | |
| p-Terphenyl-d14 | 5.0000 | 91.7 | 37 - 120 | 21.544 | 21.54257 | 0.0014 | N/A | |



SURROGATE RECOVERY AND RT SUMMARY
EPA 8270E

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLC0397
Calibration: GC00046

SDG/WO: 23A0180
Project: AOC5 MR Phase 1
Instrument: NT10
Calibration Date: 03/16/2023

| Surrogate Compound | Spike Level ug/mL | % Recovery | Recovery Limits | RT | Calibration Mean RT | RT Diff | RT Diff Limit | Q |
|-----------------------------|-------------------|-----------------------------|-----------------|--------|--------------------------|---------|---------------|---|
| SLC0397-ICV1 (Solid) | | Lab File ID: NT1003222302.D | | | Analyzed: 03/22/23 17:42 | | | |
| 2-Fluorophenol | 7.5000 | 97.6 | 80 - 120 | 6.851 | 7.067714 | -0.2167 | N/A | |
| Phenol-d5 | 7.5000 | 101 | 80 - 120 | 8.45 | 8.638143 | -0.1881 | N/A | |
| 2-Chlorophenol-d4 | 7.5000 | 101 | 80 - 120 | 8.721 | 8.931857 | -0.2109 | N/A | |
| 1,2-Dichlorobenzene-d4 | 5.0000 | 99.0 | 80 - 120 | 9.449 | 9.659143 | -0.2101 | N/A | |
| Nitrobenzene-d5 | 5.0000 | 97.4 | 80 - 120 | 10.187 | 10.389 | -0.2020 | N/A | |
| 2-Fluorobiphenyl | 5.0000 | 97.4 | 80 - 120 | 13.8 | 13.982 | -0.1820 | N/A | |
| 2,4,6-Tribromophenol | 7.5000 | 123 | 80 - 120 | 16.846 | 17.02143 | -0.1754 | N/A | * |
| p-Terphenyl-d14 | 5.0000 | 93.6 | 80 - 120 | 21.425 | 21.54257 | -0.1176 | N/A | |
| SLC0397-LCV1 (Solid) | | Lab File ID: NT1003222304.D | | | Analyzed: 03/22/23 18:59 | | | |
| 2-Fluorophenol | 0.30000 | 101 | 50 - 150 | 6.859 | 7.067714 | -0.2087 | N/A | |
| Phenol-d5 | 0.30000 | 91.8 | 50 - 150 | 8.451 | 8.638143 | -0.1871 | N/A | |
| 2-Chlorophenol-d4 | 0.30000 | 98.9 | 50 - 150 | 8.721 | 8.931857 | -0.2109 | N/A | |
| 1,2-Dichlorobenzene-d4 | 0.20000 | 105 | 50 - 150 | 9.442 | 9.659143 | -0.2171 | N/A | |
| Nitrobenzene-d5 | 0.20000 | 86.6 | 50 - 150 | 10.179 | 10.389 | -0.2100 | N/A | |
| 2-Fluorobiphenyl | 0.20000 | 103 | 50 - 150 | 13.793 | 13.982 | -0.1890 | N/A | |
| 2,4,6-Tribromophenol | 0.30000 | 85.4 | 50 - 150 | 16.838 | 17.02143 | -0.1834 | N/A | |
| p-Terphenyl-d14 | 0.20000 | 101 | 50 - 150 | 21.425 | 21.54257 | -0.1176 | N/A | |
| BLC0442-BLK1 (Solid) | | Lab File ID: NT1003222306.D | | | Analyzed: 03/22/23 20:16 | | | |
| 2-Fluorophenol | 750.00 | 71.9 | 27 - 120 | 6.859 | 7.067714 | -0.2087 | N/A | |
| Phenol-d5 | 750.00 | 75.3 | 29 - 120 | 8.45 | 8.638143 | -0.1881 | N/A | |
| 2-Chlorophenol-d4 | 750.00 | 81.9 | 31 - 120 | 8.721 | 8.931857 | -0.2109 | N/A | |
| 1,2-Dichlorobenzene-d4 | 500.00 | 79.9 | 32 - 120 | 9.441 | 9.659143 | -0.2181 | N/A | |
| Nitrobenzene-d5 | 500.00 | 80.1 | 30 - 120 | 10.179 | 10.389 | -0.2100 | N/A | |
| 2-Fluorobiphenyl | 500.00 | 85.5 | 35 - 120 | 13.792 | 13.982 | -0.1900 | N/A | |
| 2,4,6-Tribromophenol | 750.00 | 88.6 | 24 - 134 | 16.838 | 17.02143 | -0.1834 | N/A | |
| p-Terphenyl-d14 | 500.00 | 90.8 | 37 - 120 | 21.425 | 21.54257 | -0.1176 | N/A | |



SURROGATE RECOVERY AND RT SUMMARY
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG/WO: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Sequence: SLC0397

Instrument: NT10

Calibration: GC00046

Calibration Date: 03/16/2023

| Surrogate Compound | Spike Level ug/kg wet | % Recovery | Recovery Limits | RT | Calibration Mean RT | RT Diff | RT Diff Limit | Q | |
|-----------------------------|-----------------------|-----------------------------|-----------------|--------|---------------------|--------------------------|---------------|---|--|
| BLC0442-BS1 (Solid) | | Lab File ID: NT1003222307.D | | | | Analyzed: 03/22/23 20:54 | | | |
| 2-Fluorophenol | 750.00 | 79.6 | 27 - 120 | 6.859 | 7.067714 | -0.2087 | N/A | | |
| Phenol-d5 | 750.00 | 83.6 | 29 - 120 | 8.45 | 8.638143 | -0.1881 | N/A | | |
| 2-Chlorophenol-d4 | 750.00 | 88.0 | 31 - 120 | 8.721 | 8.931857 | -0.2109 | N/A | | |
| 1,2-Dichlorobenzene-d4 | 500.00 | 82.6 | 32 - 120 | 9.441 | 9.659143 | -0.2181 | N/A | | |
| Nitrobenzene-d5 | 500.00 | 84.7 | 30 - 120 | 10.179 | 10.389 | -0.2100 | N/A | | |
| 2-Fluorobiphenyl | 500.00 | 86.9 | 35 - 120 | 13.792 | 13.982 | -0.1900 | N/A | | |
| 2,4,6-Tribromophenol | 750.00 | 117 | 24 - 134 | 16.838 | 17.02143 | -0.1834 | N/A | | |
| p-Terphenyl-d14 | 500.00 | 93.7 | 37 - 120 | 21.425 | 21.54257 | -0.1176 | N/A | | |
| BLC0442-BSD1 (Solid) | | Lab File ID: NT1003222308.D | | | | Analyzed: 03/22/23 21:32 | | | |
| 2-Fluorophenol | 750.00 | 81.9 | 27 - 120 | 6.859 | 7.067714 | -0.2087 | N/A | | |
| Phenol-d5 | 750.00 | 85.6 | 29 - 120 | 8.45 | 8.638143 | -0.1881 | N/A | | |
| 2-Chlorophenol-d4 | 750.00 | 89.5 | 31 - 120 | 8.721 | 8.931857 | -0.2109 | N/A | | |
| 1,2-Dichlorobenzene-d4 | 500.00 | 83.4 | 32 - 120 | 9.441 | 9.659143 | -0.2181 | N/A | | |
| Nitrobenzene-d5 | 500.00 | 86.5 | 30 - 120 | 10.179 | 10.389 | -0.2100 | N/A | | |
| 2-Fluorobiphenyl | 500.00 | 89.0 | 35 - 120 | 13.792 | 13.982 | -0.1900 | N/A | | |
| 2,4,6-Tribromophenol | 750.00 | 120 | 24 - 134 | 16.846 | 17.02143 | -0.1754 | N/A | | |
| p-Terphenyl-d14 | 500.00 | 93.1 | 37 - 120 | 21.425 | 21.54257 | -0.1176 | N/A | | |
| BLC0442-SRM1 (Solid) | | Lab File ID: NT1003222309.D | | | | Analyzed: 03/22/23 22:10 | | | |
| 2-Fluorophenol | 7500.0 | 77.6 | 27 - 120 | 6.867 | 7.067714 | -0.2007 | N/A | | |
| Phenol-d5 | 7500.0 | 80.5 | 29 - 120 | 8.45 | 8.638143 | -0.1881 | N/A | | |
| 2-Chlorophenol-d4 | 7500.0 | 85.1 | 31 - 120 | 8.721 | 8.931857 | -0.2109 | N/A | | |
| 1,2-Dichlorobenzene-d4 | 5000.0 | 78.1 | 32 - 120 | 9.441 | 9.659143 | -0.2181 | N/A | | |
| Nitrobenzene-d5 | 5000.0 | 81.3 | 30 - 120 | 10.179 | 10.389 | -0.2100 | N/A | | |
| 2-Fluorobiphenyl | 5000.0 | 86.0 | 35 - 120 | 13.792 | 13.982 | -0.1900 | N/A | | |
| 2,4,6-Tribromophenol | 7500.0 | 120 | 24 - 134 | 16.838 | 17.02143 | -0.1834 | N/A | | |
| p-Terphenyl-d14 | 5000.0 | 89.6 | 37 - 120 | 21.425 | 21.54257 | -0.1176 | N/A | | |



SURROGATE RECOVERY AND RT SUMMARY
EPA 8270E

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLC0397
Calibration: GC00046

SDG/WO: 23A0180
Project: AOC5 MR Phase 1
Instrument: NT10
Calibration Date: 03/16/2023

| Surrogate Compound | Spike Level ug/mL | % Recovery | Recovery Limits | RT | Calibration Mean RT | RT Diff | RT Diff Limit | Q |
|--|-------------------|------------|-----------------|--------|---------------------|---------|---------------|---|
| SLC0397-ICV2 (Solid) Lab File ID: NT1003222317.D Analyzed: 03/23/23 03:15 | | | | | | | | |
| 2-Fluorophenol | 7.5000 | 100 | 80 - 120 | 6.851 | 7.067714 | -0.2167 | N/A | |
| Phenol-d5 | 7.5000 | 99.1 | 80 - 120 | 8.45 | 8.638143 | -0.1881 | N/A | |
| 2-Chlorophenol-d4 | 7.5000 | 101 | 80 - 120 | 8.721 | 8.931857 | -0.2109 | N/A | |
| 1,2-Dichlorobenzene-d4 | 5.0000 | 97.7 | 80 - 120 | 9.441 | 9.659143 | -0.2181 | N/A | |
| Nitrobenzene-d5 | 5.0000 | 96.6 | 80 - 120 | 10.179 | 10.389 | -0.2100 | N/A | |
| 2-Fluorobiphenyl | 5.0000 | 98.1 | 80 - 120 | 13.8 | 13.982 | -0.1820 | N/A | |
| 2,4,6-Tribromophenol | 7.5000 | 119 | 80 - 120 | 16.846 | 17.02143 | -0.1754 | N/A | |
| p-Terphenyl-d14 | 5.0000 | 94.1 | 80 - 120 | 21.433 | 21.54257 | -0.1096 | N/A | |
| SLC0397-LCV2 (Solid) Lab File ID: NT1003222319.D Analyzed: 03/23/23 04:30 | | | | | | | | |
| 2-Fluorophenol | 0.30000 | 101 | 50 - 150 | 6.851 | 7.067714 | -0.2167 | N/A | |
| Phenol-d5 | 0.30000 | 96.3 | 50 - 150 | 8.443 | 8.638143 | -0.1951 | N/A | |
| 2-Chlorophenol-d4 | 0.30000 | 101 | 50 - 150 | 8.721 | 8.931857 | -0.2109 | N/A | |
| 1,2-Dichlorobenzene-d4 | 0.20000 | 104 | 50 - 150 | 9.442 | 9.659143 | -0.2171 | N/A | |
| Nitrobenzene-d5 | 0.20000 | 97.1 | 50 - 150 | 10.179 | 10.389 | -0.2100 | N/A | |
| 2-Fluorobiphenyl | 0.20000 | 106 | 50 - 150 | 13.8 | 13.982 | -0.1820 | N/A | |
| 2,4,6-Tribromophenol | 0.30000 | 94.0 | 50 - 150 | 16.846 | 17.02143 | -0.1754 | N/A | |
| p-Terphenyl-d14 | 0.20000 | 99.3 | 50 - 150 | 21.433 | 21.54257 | -0.1096 | N/A | |
| BLC0442-BLK3 (Solid) Lab File ID: NT1003222321.D Analyzed: 03/23/23 05:46 | | | | | | | | |
| 2-Fluorophenol | 750.00 | 72.8 | 27 - 120 | 6.859 | 7.067714 | -0.2087 | N/A | |
| Phenol-d5 | 750.00 | 76.3 | 29 - 120 | 8.45 | 8.638143 | -0.1881 | N/A | |
| 2-Chlorophenol-d4 | 750.00 | 81.5 | 31 - 120 | 8.721 | 8.931857 | -0.2109 | N/A | |
| 1,2-Dichlorobenzene-d4 | 500.00 | 79.2 | 32 - 120 | 9.441 | 9.659143 | -0.2181 | N/A | |
| Nitrobenzene-d5 | 500.00 | 82.5 | 30 - 120 | 10.179 | 10.389 | -0.2100 | N/A | |
| 2-Fluorobiphenyl | 500.00 | 86.5 | 35 - 120 | 13.8 | 13.982 | -0.1820 | N/A | |
| 2,4,6-Tribromophenol | 750.00 | 92.5 | 24 - 134 | 16.846 | 17.02143 | -0.1754 | N/A | |
| p-Terphenyl-d14 | 500.00 | 91.1 | 37 - 120 | 21.433 | 21.54257 | -0.1096 | N/A | |



SURROGATE RECOVERY AND RT SUMMARY
EPA 8270E

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLC0397
Calibration: GC00046

SDG/WO: 23A0180
Project: AOC5 MR Phase 1
Instrument: NT10
Calibration Date: 03/16/2023

| Surrogate Compound | Spike Level ug/kg dry | % Recovery | Recovery Limits | RT | Calibration Mean RT | RT Diff | RT Diff Limit | Q |
|------------------------------|-----------------------|-----------------------------|-----------------|--------|--------------------------|---------|---------------|---|
| 23A0180-01RE1 (Solid) | | Lab File ID: NT1003222329.D | | | Analyzed: 03/23/23 10:49 | | | |
| 2-Fluorophenol | 750.02 | 74.4 | 27 - 120 | 6.867 | 7.067714 | -0.2007 | N/A | |
| Phenol-d5 | 750.02 | 76.7 | 29 - 120 | 8.458 | 8.638143 | -0.1801 | N/A | |
| 2-Chlorophenol-d4 | 750.02 | 82.9 | 31 - 120 | 8.729 | 8.931857 | -0.2029 | N/A | |
| 1,2-Dichlorobenzene-d4 | 500.01 | 75.8 | 32 - 120 | 9.449 | 9.659143 | -0.2101 | N/A | |
| Nitrobenzene-d5 | 500.01 | 78.5 | 30 - 120 | 10.187 | 10.389 | -0.2020 | N/A | |
| 2-Fluorobiphenyl | 500.01 | 84.7 | 35 - 120 | 13.808 | 13.982 | -0.1740 | N/A | |
| 2,4,6-Tribromophenol | 750.02 | 116 | 24 - 134 | 16.862 | 17.02143 | -0.1594 | N/A | |
| p-Terphenyl-d14 | 500.01 | 81.4 | 37 - 120 | 21.448 | 21.54257 | -0.0946 | N/A | |
| 23A0180-02RE1 (Solid) | | Lab File ID: NT1003222330.D | | | Analyzed: 03/23/23 11:27 | | | |
| 2-Fluorophenol | 747.40 | 75.1 | 27 - 120 | 6.866 | 7.067714 | -0.2017 | N/A | |
| Phenol-d5 | 747.40 | 77.2 | 29 - 120 | 8.458 | 8.638143 | -0.1801 | N/A | |
| 2-Chlorophenol-d4 | 747.40 | 82.4 | 31 - 120 | 8.728 | 8.931857 | -0.2039 | N/A | |
| 1,2-Dichlorobenzene-d4 | 498.27 | 74.5 | 32 - 120 | 9.449 | 9.659143 | -0.2101 | N/A | |
| Nitrobenzene-d5 | 498.27 | 77.0 | 30 - 120 | 10.187 | 10.389 | -0.2020 | N/A | |
| 2-Fluorobiphenyl | 498.27 | 84.2 | 35 - 120 | 13.808 | 13.982 | -0.1740 | N/A | |
| 2,4,6-Tribromophenol | 747.40 | 116 | 24 - 134 | 16.861 | 17.02143 | -0.1604 | N/A | |
| p-Terphenyl-d14 | 498.27 | 80.1 | 37 - 120 | 21.456 | 21.54257 | -0.0866 | N/A | |
| 23A0180-03RE1 (Solid) | | Lab File ID: NT1003222331.D | | | Analyzed: 03/23/23 12:05 | | | |
| 2-Fluorophenol | 750.11 | 76.0 | 27 - 120 | 6.867 | 7.067714 | -0.2007 | N/A | |
| Phenol-d5 | 750.11 | 78.1 | 29 - 120 | 8.458 | 8.638143 | -0.1801 | N/A | |
| 2-Chlorophenol-d4 | 750.11 | 83.6 | 31 - 120 | 8.729 | 8.931857 | -0.2029 | N/A | |
| 1,2-Dichlorobenzene-d4 | 500.08 | 75.4 | 32 - 120 | 9.442 | 9.659143 | -0.2171 | N/A | |
| Nitrobenzene-d5 | 500.08 | 77.1 | 30 - 120 | 10.179 | 10.389 | -0.2100 | N/A | |
| 2-Fluorobiphenyl | 500.08 | 83.9 | 35 - 120 | 13.792 | 13.982 | -0.1900 | N/A | |
| 2,4,6-Tribromophenol | 750.11 | 117 | 24 - 134 | 16.846 | 17.02143 | -0.1754 | N/A | |
| p-Terphenyl-d14 | 500.08 | 82.5 | 37 - 120 | 21.433 | 21.54257 | -0.1096 | N/A | |



SURROGATE RECOVERY AND RT SUMMARY
EPA 8270E

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLC0397
Calibration: GC00046

SDG/WO: 23A0180
Project: AOC5 MR Phase 1
Instrument: NT10
Calibration Date: 03/16/2023

| Surrogate Compound | Spike Level ug/kg dry | % Recovery | Recovery Limits | RT | Calibration Mean RT | RT Diff | RT Diff Limit | Q |
|------------------------------|-----------------------|-----------------------------|-----------------|--------|--------------------------|---------|---------------|---|
| 23A0180-04RE1 (Solid) | | Lab File ID: NT1003222332.D | | | Analyzed: 03/23/23 12:44 | | | |
| 2-Fluorophenol | 747.71 | 79.8 | 27 - 120 | 6.866 | 7.067714 | -0.2017 | N/A | |
| Phenol-d5 | 747.71 | 80.9 | 29 - 120 | 8.458 | 8.638143 | -0.1801 | N/A | |
| 2-Chlorophenol-d4 | 747.71 | 86.7 | 31 - 120 | 8.728 | 8.931857 | -0.2039 | N/A | |
| 1,2-Dichlorobenzene-d4 | 498.47 | 79.0 | 32 - 120 | 9.449 | 9.659143 | -0.2101 | N/A | |
| Nitrobenzene-d5 | 498.47 | 81.2 | 30 - 120 | 10.179 | 10.389 | -0.2100 | N/A | |
| 2-Fluorobiphenyl | 498.47 | 87.6 | 35 - 120 | 13.8 | 13.982 | -0.1820 | N/A | |
| 2,4,6-Tribromophenol | 747.71 | 112 | 24 - 134 | 16.846 | 17.02143 | -0.1754 | N/A | |
| p-Terphenyl-d14 | 498.47 | 83.7 | 37 - 120 | 21.432 | 21.54257 | -0.1106 | N/A | |
| SLC0397-CCV1 (Solid) | | Lab File ID: NT1003222333.D | | | Analyzed: 03/23/23 13:22 | | | |
| 2-Fluorophenol | 7.5000 | 100 | 50 - 150 | 6.859 | 7.067714 | -0.2087 | N/A | |
| Phenol-d5 | 7.5000 | 101 | 50 - 150 | 8.451 | 8.638143 | -0.1871 | N/A | |
| 2-Chlorophenol-d4 | 7.5000 | 102 | 50 - 150 | 8.721 | 8.931857 | -0.2109 | N/A | |
| 1,2-Dichlorobenzene-d4 | 5.0000 | 97.7 | 50 - 150 | 9.442 | 9.659143 | -0.2171 | N/A | |
| Nitrobenzene-d5 | 5.0000 | 98.0 | 50 - 150 | 10.179 | 10.389 | -0.2100 | N/A | |
| 2-Fluorobiphenyl | 5.0000 | 97.1 | 50 - 150 | 13.8 | 13.982 | -0.1820 | N/A | |
| 2,4,6-Tribromophenol | 7.5000 | 115 | 50 - 150 | 16.846 | 17.02143 | -0.1754 | N/A | |
| p-Terphenyl-d14 | 5.0000 | 90.1 | 50 - 150 | 21.425 | 21.54257 | -0.1176 | N/A | |



INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270E

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLB0374

SDG: 23A0180
Project: AOC5 MR Phase 1
Instrument: NT14
Calibration: GC00033

| Internal Standard | Response | RT | Reference Response | Reference RT | Area % | Area % Limits | RT Diff | RT Diff Limit | Q |
|---|----------|---------|-----------------------------|--------------|--------|--------------------------|---------|---------------|---|
| Initial Cal Blank (SLB0374-ICB1) | | (Water) | Lab File ID: NT1423022811.D | | | Analyzed: 02/28/23 17:04 | | | |
| 1,4-Dichlorobenzene-d4 | 117167 | 8.207 | 114351 | 8.214 | 102 | 50 - 200 | -0.007 | +/-0.50 | |
| Naphthalene-d8 | 407027 | 10.657 | 408655 | 10.665 | 100 | 50 - 200 | -0.008 | +/-0.50 | |
| Acenaphthene-d10 | 239853 | 14.24 | 254000 | 14.247 | 94 | 50 - 200 | -0.007 | +/-0.50 | |
| Phenanthrene-d10 | 473405 | 17.245 | 490626 | 17.253 | 96 | 50 - 200 | -0.008 | +/-0.50 | |
| Chrysene-d12 | 364221 | 22.361 | 390400 | 22.376 | 93 | 50 - 200 | -0.015 | +/-0.50 | |
| Di-n-Octylphthalate-d4 | 366453 | 23.476 | 500829 | 23.483 | 73 | 50 - 200 | -0.007 | +/-0.50 | |
| Perylene-d12 | 358535 | 24.707 | 375675 | 24.722 | 95 | 50 - 200 | -0.015 | +/-0.50 | |
| Secondary Cal Check (SLB0374-SCV1) | | (Water) | Lab File ID: NT1423022812.D | | | Analyzed: 02/28/23 17:41 | | | |
| 1,4-Dichlorobenzene-d4 | 105595 | 8.207 | 114351 | 8.214 | 92 | 50 - 200 | -0.007 | +/-0.50 | |
| Naphthalene-d8 | 379346 | 10.665 | 408655 | 10.665 | 93 | 50 - 200 | 0.000 | +/-0.50 | |
| Acenaphthene-d10 | 230482 | 14.247 | 254000 | 14.247 | 91 | 50 - 200 | 0.000 | +/-0.50 | |
| Phenanthrene-d10 | 458109 | 17.245 | 490626 | 17.253 | 93 | 50 - 200 | -0.008 | +/-0.50 | |
| Chrysene-d12 | 351284 | 22.368 | 390400 | 22.376 | 90 | 50 - 200 | -0.008 | +/-0.50 | |
| Di-n-Octylphthalate-d4 | 422614 | 23.476 | 500829 | 23.483 | 84 | 50 - 200 | -0.007 | +/-0.50 | |
| Perylene-d12 | 336637 | 24.714 | 375675 | 24.722 | 90 | 50 - 200 | -0.008 | +/-0.50 | |
| Initial Cal Check (SLB0374-ICV1) | | (Water) | Lab File ID: NT1423022813.D | | | Analyzed: 03/01/23 08:50 | | | |
| 1,4-Dichlorobenzene-d4 | 130493 | 8.191 | 130493 | 8.191 | 100 | 50 - 200 | 0.000 | +/-0.50 | |
| Naphthalene-d8 | 468517 | 10.642 | 468517 | 10.642 | 100 | 50 - 200 | 0.000 | +/-0.50 | |
| Acenaphthene-d10 | 287099 | 14.232 | 287099 | 14.232 | 100 | 50 - 200 | 0.000 | +/-0.50 | |
| Phenanthrene-d10 | 562063 | 17.237 | 562063 | 17.237 | 100 | 50 - 200 | 0.000 | +/-0.50 | |
| Chrysene-d12 | 437959 | 22.353 | 437959 | 22.353 | 100 | 50 - 200 | 0.000 | +/-0.50 | |
| Di-n-Octylphthalate-d4 | 562397 | 23.468 | 562397 | 23.468 | 100 | 50 - 200 | 0.000 | +/-0.50 | |
| Perylene-d12 | 412943 | 24.699 | 412943 | 24.699 | 100 | 50 - 200 | 0.000 | +/-0.50 | |
| Initial Cal Check (SLB0374-ICV2) | | (Water) | Lab File ID: NT1423022821.D | | | Analyzed: 03/01/23 13:39 | | | |
| 1,4-Dichlorobenzene-d4 | 125853 | 8.191 | 125853 | 8.191 | 100 | 50 - 200 | 0.000 | +/-0.50 | |
| Naphthalene-d8 | 454961 | 10.649 | 454961 | 10.649 | 100 | 50 - 200 | 0.000 | +/-0.50 | |
| Acenaphthene-d10 | 273779 | 14.232 | 273779 | 14.232 | 100 | 50 - 200 | 0.000 | +/-0.50 | |
| Phenanthrene-d10 | 520384 | 17.237 | 520384 | 17.237 | 100 | 50 - 200 | 0.000 | +/-0.50 | |
| Chrysene-d12 | 399183 | 22.361 | 399183 | 22.361 | 100 | 50 - 200 | 0.000 | +/-0.50 | |
| Di-n-Octylphthalate-d4 | 602810 | 23.468 | 602810 | 23.468 | 100 | 50 - 200 | 0.000 | +/-0.50 | |
| Perylene-d12 | 478887 | 24.707 | 478887 | 24.707 | 100 | 50 - 200 | 0.000 | +/-0.50 | |



INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270E

Laboratory: Analytical Resources, LLC
Client: Anchor OEA, LLC
Sequence: SLB0374

SDG: 23A0180
Project: AOC5 MR Phase 1
Instrument: NT14
Calibration: GC00033

| Internal Standard | Response | RT | Reference Response | Reference RT | Area % | Area % Limits | RT Diff | RT Diff Limit | Q |
|-------------------------------------|----------|---------|-----------------------------|--------------|--------|--------------------------|---------|---------------|---|
| Low Cal Check (SLB0374-LCV1) | | (Water) | Lab File ID: NT1423022823.D | | | Analyzed: 03/01/23 14:51 | | | |
| 1,4-Dichlorobenzene-d4 | 114717 | 8.191 | 125853 | 8.191 | 91 | 50 - 200 | 0.000 | +/-0.50 | |
| Naphthalene-d8 | 407764 | 10.649 | 454961 | 10.649 | 90 | 50 - 200 | 0.000 | +/-0.50 | |
| Acenaphthene-d10 | 232149 | 14.232 | 273779 | 14.232 | 85 | 50 - 200 | 0.000 | +/-0.50 | |
| Phenanthrene-d10 | 434349 | 17.237 | 520384 | 17.237 | 83 | 50 - 200 | 0.000 | +/-0.50 | |
| Chrysene-d12 | 321275 | 22.361 | 399183 | 22.361 | 80 | 50 - 200 | 0.000 | +/-0.50 | |
| Di-n-Octylphthalate-d4 | 479418 | 23.468 | 602810 | 23.468 | 80 | 50 - 200 | 0.000 | +/-0.50 | |
| Perylene-d12 | 396889 | 24.706 | 478887 | 24.707 | 83 | 50 - 200 | -0.001 | +/-0.50 | |
| Low Cal Check (SLB0374-LCV2) | | (Water) | Lab File ID: NT1423022825.D | | | Analyzed: 03/01/23 16:04 | | | |
| 1,4-Dichlorobenzene-d4 | 130297 | 8.191 | 125853 | 8.191 | 104 | 50 - 200 | 0.000 | +/-0.50 | |
| Naphthalene-d8 | 458645 | 10.642 | 454961 | 10.649 | 101 | 50 - 200 | -0.007 | +/-0.50 | |
| Acenaphthene-d10 | 264644 | 14.232 | 273779 | 14.232 | 97 | 50 - 200 | 0.000 | +/-0.50 | |
| Phenanthrene-d10 | 503378 | 17.237 | 520384 | 17.237 | 97 | 50 - 200 | 0.000 | +/-0.50 | |
| Chrysene-d12 | 366987 | 22.361 | 399183 | 22.361 | 92 | 50 - 200 | 0.000 | +/-0.50 | |
| Di-n-Octylphthalate-d4 | 534079 | 23.468 | 602810 | 23.468 | 89 | 50 - 200 | 0.000 | +/-0.50 | |
| Perylene-d12 | 433681 | 24.706 | 478887 | 24.707 | 91 | 50 - 200 | -0.001 | +/-0.50 | |
| Blank (BLA0557-BLK1) | | (Solid) | Lab File ID: NT1423022826.D | | | Analyzed: 03/01/23 16:40 | | | |
| 1,4-Dichlorobenzene-d4 | 119737 | 8.191 | 114351 | 8.214 | 105 | 50 - 200 | -0.023 | +/-0.50 | |
| Naphthalene-d8 | 429209 | 10.642 | 454961 | 10.649 | 94 | 50 - 200 | -0.007 | +/-0.50 | |
| Acenaphthene-d10 | 246224 | 14.232 | 246020 | 14.239 | 100 | 50 - 200 | -0.007 | +/-0.50 | |
| Phenanthrene-d10 | 459727 | 17.237 | 520384 | 17.237 | 88 | 50 - 200 | 0.000 | +/-0.50 | |
| Chrysene-d12 | 327323 | 22.361 | 390400 | 22.376 | 84 | 50 - 200 | -0.015 | +/-0.50 | |
| Di-n-Octylphthalate-d4 | 489283 | 23.468 | 602810 | 23.468 | 81 | 50 - 200 | 0.000 | +/-0.50 | |
| Perylene-d12 | 397979 | 24.707 | 357819 | 24.714 | 111 | 50 - 200 | -0.007 | +/-0.50 | |
| LCS (BLA0557-BS1) | | (Solid) | Lab File ID: NT1423022827.D | | | Analyzed: 03/01/23 17:16 | | | |
| 1,4-Dichlorobenzene-d4 | 115317 | 8.191 | 114351 | 8.214 | 101 | 50 - 200 | -0.023 | +/-0.50 | |
| Naphthalene-d8 | 411740 | 10.649 | 454961 | 10.649 | 91 | 50 - 200 | 0.000 | +/-0.50 | |
| Acenaphthene-d10 | 247058 | 14.232 | 246020 | 14.239 | 100 | 50 - 200 | -0.007 | +/-0.50 | |
| Phenanthrene-d10 | 455912 | 17.237 | 520384 | 17.237 | 88 | 50 - 200 | 0.000 | +/-0.50 | |
| Chrysene-d12 | 347971 | 22.361 | 390400 | 22.376 | 89 | 50 - 200 | -0.015 | +/-0.50 | |
| Di-n-Octylphthalate-d4 | 520496 | 23.468 | 602810 | 23.468 | 86 | 50 - 200 | 0.000 | +/-0.50 | |
| Perylene-d12 | 413395 | 24.707 | 357819 | 24.714 | 116 | 50 - 200 | -0.007 | +/-0.50 | |



INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270E

Laboratory: Analytical Resources, LLC
Client: Anchor OEA, LLC
Sequence: SLB0374

SDG: 23A0180
Project: AOC5 MR Phase 1
Instrument: NT14
Calibration: GC00033

| Internal Standard | Response | RT | Reference Response | Reference RT | Area % | Area % Limits | RT Diff | RT Diff Limit | Q |
|--|----------|---------|-----------------------------|--------------|--------|--------------------------|---------|---------------|---|
| LCS Dup (BLA0557-BSD1) | | (Solid) | Lab File ID: NT1423022828.D | | | Analyzed: 03/01/23 17:52 | | | |
| 1,4-Dichlorobenzene-d4 | 113200 | 8.191 | 114351 | 8.214 | 99 | 50 - 200 | -0.023 | +/-0.50 | |
| Naphthalene-d8 | 411152 | 10.649 | 454961 | 10.649 | 90 | 50 - 200 | 0.000 | +/-0.50 | |
| Acenaphthene-d10 | 242424 | 14.232 | 246020 | 14.239 | 99 | 50 - 200 | -0.007 | +/-0.50 | |
| Phenanthrene-d10 | 456525 | 17.237 | 520384 | 17.237 | 88 | 50 - 200 | 0.000 | +/-0.50 | |
| Chrysene-d12 | 343644 | 22.361 | 390400 | 22.376 | 88 | 50 - 200 | -0.015 | +/-0.50 | |
| Di-n-Octylphthalate-d4 | 509245 | 23.468 | 602810 | 23.468 | 84 | 50 - 200 | 0.000 | +/-0.50 | |
| Perylene-d12 | 400872 | 24.706 | 357819 | 24.714 | 112 | 50 - 200 | -0.008 | +/-0.50 | |
| Reference (BLA0557-SRM1) | | (Solid) | Lab File ID: NT1423022829.D | | | Analyzed: 03/01/23 18:28 | | | |
| 1,4-Dichlorobenzene-d4 | 118527 | 8.191 | 114351 | 8.214 | 104 | 50 - 200 | -0.023 | +/-0.50 | |
| Naphthalene-d8 | 431802 | 10.642 | 454961 | 10.649 | 95 | 50 - 200 | -0.007 | +/-0.50 | |
| Acenaphthene-d10 | 245761 | 14.232 | 246020 | 14.239 | 100 | 50 - 200 | -0.007 | +/-0.50 | |
| Phenanthrene-d10 | 473833 | 17.237 | 520384 | 17.237 | 91 | 50 - 200 | 0.000 | +/-0.50 | |
| Chrysene-d12 | 346329 | 22.361 | 390400 | 22.376 | 89 | 50 - 200 | -0.015 | +/-0.50 | |
| Di-n-Octylphthalate-d4 | 532201 | 23.468 | 602810 | 23.468 | 88 | 50 - 200 | 0.000 | +/-0.50 | |
| Perylene-d12 | 414695 | 24.707 | 357819 | 24.714 | 116 | 50 - 200 | -0.007 | +/-0.50 | |
| Initial Cal Check (SLB0374-ICV3) | | (Water) | Lab File ID: NT1423022836.D | | | Analyzed: 03/01/23 22:40 | | | |
| 1,4-Dichlorobenzene-d4 | 115350 | 8.199 | 115350 | 8.199 | 100 | 50 - 200 | 0.000 | +/-0.50 | |
| Naphthalene-d8 | 415895 | 10.649 | 415895 | 10.649 | 100 | 50 - 200 | 0.000 | +/-0.50 | |
| Acenaphthene-d10 | 246020 | 14.239 | 246020 | 14.239 | 100 | 50 - 200 | 0.000 | +/-0.50 | |
| Phenanthrene-d10 | 448598 | 17.245 | 448598 | 17.245 | 100 | 50 - 200 | 0.000 | +/-0.50 | |
| Chrysene-d12 | 373978 | 22.368 | 373978 | 22.368 | 100 | 50 - 200 | 0.000 | +/-0.50 | |
| Di-n-Octylphthalate-d4 | 541572 | 23.476 | 541572 | 23.476 | 100 | 50 - 200 | 0.000 | +/-0.50 | |
| Perylene-d12 | 357819 | 24.714 | 357819 | 24.714 | 100 | 50 - 200 | 0.000 | +/-0.50 | |
| Low Cal Check (SLB0374-LCV3) | | (Water) | Lab File ID: NT1423022838.D | | | Analyzed: 03/01/23 23:52 | | | |
| 1,4-Dichlorobenzene-d4 | 114387 | 8.199 | 115350 | 8.199 | 99 | 50 - 200 | 0.000 | +/-0.50 | |
| Naphthalene-d8 | 404965 | 10.649 | 415895 | 10.649 | 97 | 50 - 200 | 0.000 | +/-0.50 | |
| Acenaphthene-d10 | 227510 | 14.232 | 246020 | 14.239 | 92 | 50 - 200 | -0.007 | +/-0.50 | |
| Phenanthrene-d10 | 416834 | 17.245 | 448598 | 17.245 | 93 | 50 - 200 | 0.000 | +/-0.50 | |
| Chrysene-d12 | 340670 | 22.361 | 373978 | 22.368 | 91 | 50 - 200 | -0.007 | +/-0.50 | |
| Di-n-Octylphthalate-d4 | 485089 | 23.468 | 541572 | 23.476 | 90 | 50 - 200 | -0.008 | +/-0.50 | |
| Perylene-d12 | 315652 | 24.707 | 357819 | 24.714 | 88 | 50 - 200 | -0.007 | +/-0.50 | |



INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor OEA, LLC

Project: AOC5 MR Phase 1

Sequence: SLB0374

Instrument: NT14

Calibration: GC00033

| Internal Standard | Response | RT | Reference Response | Reference RT | Area % | Area % Limits | RT Diff | RT Diff Limit | Q |
|-------------------------------------|----------|---------|-----------------------------|--------------|--------|--------------------------|---------|---------------|---|
| Low Cal Check (SLB0374-LCV4) | | (Water) | Lab File ID: NT1423022839.D | | | Analyzed: 03/02/23 00:28 | | | |
| 1,4-Dichlorobenzene-d4 | 113866 | 8.191 | 115350 | 8.199 | 99 | 50 - 200 | -0.008 | +/-0.50 | |
| Naphthalene-d8 | 401641 | 10.65 | 415895 | 10.649 | 97 | 50 - 200 | 0.001 | +/-0.50 | |
| Acenaphthene-d10 | 232085 | 14.232 | 246020 | 14.239 | 94 | 50 - 200 | -0.007 | +/-0.50 | |
| Phenanthrene-d10 | 421769 | 17.238 | 448598 | 17.245 | 94 | 50 - 200 | -0.007 | +/-0.50 | |
| Chrysene-d12 | 338375 | 22.361 | 373978 | 22.368 | 90 | 50 - 200 | -0.007 | +/-0.50 | |
| Di-n-Octylphthalate-d4 | 478625 | 23.468 | 541572 | 23.476 | 88 | 50 - 200 | -0.008 | +/-0.50 | |
| Perylene-d12 | 315661 | 24.715 | 357819 | 24.714 | 88 | 50 - 200 | 0.001 | +/-0.50 | |
| LDW23-SC1164 (23A0180-01) | | (Solid) | Lab File ID: NT1423022844.D | | | Analyzed: 03/02/23 03:27 | | | |
| 1,4-Dichlorobenzene-d4 | 111445 | 8.199 | 115350 | 8.199 | 97 | 50 - 200 | 0.000 | +/-0.50 | |
| Naphthalene-d8 | 403002 | 10.657 | 415895 | 10.649 | 97 | 50 - 200 | 0.008 | +/-0.50 | |
| Acenaphthene-d10 | 231049 | 14.239 | 250637 | 14.247 | 92 | 50 - 200 | -0.008 | +/-0.50 | |
| Phenanthrene-d10 | 436923 | 17.253 | 448598 | 17.245 | 97 | 50 - 200 | 0.008 | +/-0.50 | |
| Chrysene-d12 | 383047 | 22.392 | 399183 | 22.361 | 96 | 50 - 200 | 0.031 | +/-0.50 | |
| Di-n-Octylphthalate-d4 | 532671 | 23.491 | 500829 | 23.483 | 106 | 50 - 200 | 0.008 | +/-0.50 | |
| Perylene-d12 | 281715 | 24.753 | 478887 | 24.707 | 59 | 50 - 200 | 0.046 | +/-0.50 | |
| LDW23-SC1164-FD (23A0180-02) | | (Solid) | Lab File ID: NT1423022845.D | | | Analyzed: 03/02/23 04:03 | | | |
| 1,4-Dichlorobenzene-d4 | 110517 | 8.199 | 116519 | 8.207 | 95 | 50 - 200 | -0.008 | +/-0.50 | |
| Naphthalene-d8 | 404153 | 10.657 | 429090 | 10.665 | 94 | 50 - 200 | -0.008 | +/-0.50 | |
| Acenaphthene-d10 | 231072 | 14.24 | 287099 | 14.232 | 80 | 50 - 200 | 0.008 | +/-0.50 | |
| Phenanthrene-d10 | 432633 | 17.253 | 562063 | 17.237 | 77 | 50 - 200 | 0.016 | +/-0.50 | |
| Chrysene-d12 | 374504 | 22.392 | 393468 | 22.376 | 95 | 50 - 200 | 0.016 | +/-0.50 | |
| Di-n-Octylphthalate-d4 | 536189 | 23.491 | 572636 | 23.483 | 94 | 50 - 200 | 0.008 | +/-0.50 | |
| Perylene-d12 | 278246 | 24.746 | 375675 | 24.722 | 74 | 50 - 200 | 0.024 | +/-0.50 | |
| LDW23-SC1158 (23A0180-03) | | (Solid) | Lab File ID: NT1423022846.D | | | Analyzed: 03/02/23 04:39 | | | |
| 1,4-Dichlorobenzene-d4 | 121220 | 8.199 | 115350 | 8.199 | 105 | 50 - 200 | 0.000 | +/-0.50 | |
| Naphthalene-d8 | 444463 | 10.657 | 454961 | 10.649 | 98 | 50 - 200 | 0.008 | +/-0.50 | |
| Acenaphthene-d10 | 254449 | 14.247 | 273779 | 14.232 | 93 | 50 - 200 | 0.015 | +/-0.50 | |
| Phenanthrene-d10 | 481686 | 17.261 | 520384 | 17.237 | 93 | 50 - 200 | 0.024 | +/-0.50 | |
| Chrysene-d12 | 413576 | 22.384 | 399183 | 22.361 | 104 | 50 - 200 | 0.023 | +/-0.50 | |
| Di-n-Octylphthalate-d4 | 605703 | 23.491 | 572636 | 23.483 | 106 | 50 - 200 | 0.008 | +/-0.50 | |
| Perylene-d12 | 299632 | 24.745 | 357819 | 24.714 | 84 | 50 - 200 | 0.031 | +/-0.50 | |



INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270E

Laboratory: Analytical Resources, LLC
Client: Anchor OEA, LLC
Sequence: SLB0374

SDG: 23A0180
Project: AOC5 MR Phase 1
Instrument: NT14
Calibration: GC00033

| Internal Standard | Response | RT | Reference Response | Reference RT | Area % | Area % Limits | RT Diff | RT Diff Limit | Q |
|---|----------|---------|-----------------------------|--------------|--------|--------------------------|---------|---------------|---|
| LDW23-SC1151 (23A0180-04) | | (Solid) | Lab File ID: NT1423022847.D | | | Analyzed: 03/02/23 05:15 | | | |
| 1,4-Dichlorobenzene-d4 | 108875 | 8.207 | 114351 | 8.214 | 95 | 50 - 200 | -0.007 | +/-0.50 | |
| Naphthalene-d8 | 401293 | 10.657 | 468517 | 10.642 | 86 | 50 - 200 | 0.015 | +/-0.50 | |
| Acenaphthene-d10 | 227418 | 14.247 | 246020 | 14.239 | 92 | 50 - 200 | 0.008 | +/-0.50 | |
| Phenanthrene-d10 | 428058 | 17.261 | 458117 | 17.253 | 93 | 50 - 200 | 0.008 | +/-0.50 | |
| Chrysene-d12 | 375926 | 22.392 | 399183 | 22.361 | 94 | 50 - 200 | 0.031 | +/-0.50 | |
| Di-n-Octylphthalate-d4 | 545489 | 23.491 | 602810 | 23.468 | 90 | 50 - 200 | 0.023 | +/-0.50 | |
| Perylene-d12 | 255600 | 24.753 | 412943 | 24.699 | 62 | 50 - 200 | 0.054 | +/-0.50 | |
| Initial Cal Check (SLB0374-ICV4) | | (Water) | Lab File ID: NT1423022848.D | | | Analyzed: 03/02/23 05:52 | | | |
| 1,4-Dichlorobenzene-d4 | 116519 | 8.207 | 116519 | 8.207 | 100 | 50 - 200 | 0.000 | +/-0.50 | |
| Naphthalene-d8 | 429090 | 10.665 | 429090 | 10.665 | 100 | 50 - 200 | 0.000 | +/-0.50 | |
| Acenaphthene-d10 | 250637 | 14.247 | 250637 | 14.247 | 100 | 50 - 200 | 0.000 | +/-0.50 | |
| Phenanthrene-d10 | 458117 | 17.253 | 458117 | 17.253 | 100 | 50 - 200 | 0.000 | +/-0.50 | |
| Chrysene-d12 | 393468 | 22.376 | 393468 | 22.376 | 100 | 50 - 200 | 0.000 | +/-0.50 | |
| Di-n-Octylphthalate-d4 | 572636 | 23.483 | 572636 | 23.483 | 100 | 50 - 200 | 0.000 | +/-0.50 | |
| Perylene-d12 | 283320 | 24.73 | 283320 | 24.73 | 100 | 50 - 200 | 0.000 | +/-0.50 | |
| Low Cal Check (SLB0374-LCV5) | | (Water) | Lab File ID: NT1423022850.D | | | Analyzed: 03/02/23 07:04 | | | |
| 1,4-Dichlorobenzene-d4 | 115459 | 8.207 | 116519 | 8.207 | 99 | 50 - 200 | 0.000 | +/-0.50 | |
| Naphthalene-d8 | 409877 | 10.657 | 429090 | 10.665 | 96 | 50 - 200 | -0.008 | +/-0.50 | |
| Acenaphthene-d10 | 230328 | 14.247 | 250637 | 14.247 | 92 | 50 - 200 | 0.000 | +/-0.50 | |
| Phenanthrene-d10 | 417754 | 17.253 | 458117 | 17.253 | 91 | 50 - 200 | 0.000 | +/-0.50 | |
| Chrysene-d12 | 352830 | 22.376 | 393468 | 22.376 | 90 | 50 - 200 | 0.000 | +/-0.50 | |
| Di-n-Octylphthalate-d4 | 499736 | 23.483 | 572636 | 23.483 | 87 | 50 - 200 | 0.000 | +/-0.50 | |
| Perylene-d12 | 239484 | 24.73 | 283320 | 24.73 | 85 | 50 - 200 | 0.000 | +/-0.50 | |
| Low Cal Check (SLB0374-LCV6) | | (Water) | Lab File ID: NT1423022851.D | | | Analyzed: 03/02/23 07:40 | | | |
| 1,4-Dichlorobenzene-d4 | 111416 | 8.207 | 116519 | 8.207 | 96 | 50 - 200 | 0.000 | +/-0.50 | |
| Naphthalene-d8 | 403388 | 10.657 | 429090 | 10.665 | 94 | 50 - 200 | -0.008 | +/-0.50 | |
| Acenaphthene-d10 | 226130 | 14.247 | 250637 | 14.247 | 90 | 50 - 200 | 0.000 | +/-0.50 | |
| Phenanthrene-d10 | 411120 | 17.253 | 458117 | 17.253 | 90 | 50 - 200 | 0.000 | +/-0.50 | |
| Chrysene-d12 | 340331 | 22.369 | 393468 | 22.376 | 86 | 50 - 200 | -0.007 | +/-0.50 | |
| Di-n-Octylphthalate-d4 | 479730 | 23.476 | 572636 | 23.483 | 84 | 50 - 200 | -0.007 | +/-0.50 | |
| Perylene-d12 | 240961 | 24.722 | 283320 | 24.73 | 85 | 50 - 200 | -0.008 | +/-0.50 | |



INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor OEA, LLC

Project: AOC5 MR Phase 1

Sequence: SLB0374

Instrument: NT14

Calibration: GC00033

| Internal Standard | Response | RT | Reference Response | Reference RT | Area % | Area % Limits | RT Diff | RT Diff Limit | Q |
|---|----------|---------|-----------------------------|--------------|--------|--------------------------|---------|---------------|---|
| Calibration Check (SLB0374-CCV1) | | (Water) | Lab File ID: NT1423022856.D | | | Analyzed: 03/02/23 10:41 | | | |
| 1,4-Dichlorobenzene-d4 | 125192 | 8.207 | 116519 | 8.207 | 107 | 50 - 200 | 0.000 | +/-0.50 | |
| Naphthalene-d8 | 458907 | 10.657 | 429090 | 10.665 | 107 | 50 - 200 | -0.008 | +/-0.50 | |
| Acenaphthene-d10 | 271560 | 14.247 | 250637 | 14.247 | 108 | 50 - 200 | 0.000 | +/-0.50 | |
| Phenanthrene-d10 | 498585 | 17.253 | 458117 | 17.253 | 109 | 50 - 200 | 0.000 | +/-0.50 | |
| Chrysene-d12 | 404214 | 22.377 | 393468 | 22.376 | 103 | 50 - 200 | 0.001 | +/-0.50 | |
| Di-n-Octylphthalate-d4 | 582020 | 23.476 | 572636 | 23.483 | 102 | 50 - 200 | -0.007 | +/-0.50 | |
| Perylene-d12 | 284657 | 24.722 | 283320 | 24.73 | 100 | 50 - 200 | -0.008 | +/-0.50 | |



INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270E

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLC0228

SDG: 23A0180
Project: AOC5 MR Phase 1
Instrument: NT10
Calibration: GC00046

| Internal Standard | Response | RT | Reference Response | Reference RT | Area % | Area % Limits | RT Diff | RT Diff Limit | Q |
|---|----------|---------|---------------------------|--------------|--------|--------------------------|---------|---------------|---|
| Secondary Cal Check (SLC0228-SCV1) | | (Solid) | Lab File ID: NT10031511.D | | | Analyzed: 03/16/23 02:16 | | | |
| 1,4-Dichlorobenzene-d4 | 154809 | 9.301 | 171542 | 9.301 | 90 | 50 - 200 | 0.000 | +/-0.50 | |
| Naphthalene-d8 | 570882 | 11.777 | 624466 | 11.777 | 91 | 50 - 200 | 0.000 | +/-0.50 | |
| Acenaphthene-d10 | 303490 | 15.383 | 337226 | 15.382 | 90 | 50 - 200 | 0.001 | +/-0.50 | |
| Phenanthrene-d10 | 533431 | 18.42 | 572849 | 18.419 | 93 | 50 - 200 | 0.001 | +/-0.50 | |
| Chrysene-d12 | 435381 | 23.458 | 347068 | 23.449 | 125 | 50 - 200 | 0.009 | +/-0.50 | |
| Di-n-Octylphthalate-d4 | 660827 | 24.487 | 500317 | 24.479 | 132 | 50 - 200 | 0.008 | +/-0.50 | |
| Perylene-d12 | 494648 | 26.191 | 421549 | 26.182 | 117 | 50 - 200 | 0.009 | +/-0.50 | |
| Initial Cal Blank (SLC0228-ICB1) | | (Solid) | Lab File ID: NT10031512.D | | | Analyzed: 03/16/23 02:54 | | | |
| 1,4-Dichlorobenzene-d4 | 173115 | 9.301 | 171542 | 9.301 | 101 | 50 - 200 | 0.000 | +/-0.50 | |
| Naphthalene-d8 | 625865 | 11.776 | 624466 | 11.777 | 100 | 50 - 200 | -0.001 | +/-0.50 | |
| Acenaphthene-d10 | 328712 | 15.382 | 337226 | 15.382 | 97 | 50 - 200 | 0.000 | +/-0.50 | |
| Phenanthrene-d10 | 592693 | 18.419 | 572849 | 18.419 | 103 | 50 - 200 | 0.000 | +/-0.50 | |
| Chrysene-d12 | 442208 | 23.449 | 347068 | 23.449 | 127 | 50 - 200 | 0.000 | +/-0.50 | |
| Di-n-Octylphthalate-d4 | 526309 | 24.479 | 500317 | 24.479 | 105 | 50 - 200 | 0.000 | +/-0.50 | |
| Perylene-d12 | 499804 | 26.182 | 421549 | 26.182 | 119 | 50 - 200 | 0.000 | +/-0.50 | |



INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270E

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLC0397

SDG: 23A0180
Project: AOC5 MR Phase 1
Instrument: NT10
Calibration: GC00046

| Internal Standard | Response | RT | Reference Response | Reference RT | Area % | Area % Limits | RT Diff | RT Diff Limit | Q |
|---|----------|---------|-----------------------------|--------------|--------|--------------------------|---------|---------------|---|
| Initial Cal Check (SLC0397-ICV1) | | (Solid) | Lab File ID: NT1003222302.D | | | Analyzed: 03/22/23 17:42 | | | |
| 1,4-Dichlorobenzene-d4 | 122478 | 9.084 | 122478 | 9.084 | 100 | 50 - 200 | 0.000 | +/-0.50 | |
| Naphthalene-d8 | 459261 | 11.572 | 459261 | 11.572 | 100 | 50 - 200 | 0.000 | +/-0.50 | |
| Acenaphthene-d10 | 264106 | 15.193 | 264106 | 15.193 | 100 | 50 - 200 | 0.000 | +/-0.50 | |
| Phenanthrene-d10 | 503255 | 18.253 | 503255 | 18.253 | 100 | 50 - 200 | 0.000 | +/-0.50 | |
| Chrysene-d12 | 437735 | 23.345 | 437735 | 23.345 | 100 | 50 - 200 | 0.000 | +/-0.50 | |
| Di-n-Octylphthalate-d4 | 700191 | 24.413 | 700191 | 24.413 | 100 | 50 - 200 | 0.000 | +/-0.50 | |
| Perylene-d12 | 499049 | 26.024 | 499049 | 26.024 | 100 | 50 - 200 | 0.000 | +/-0.50 | |
| Low Cal Check (SLC0397-LCV1) | | (Solid) | Lab File ID: NT1003222304.D | | | Analyzed: 03/22/23 18:59 | | | |
| 1,4-Dichlorobenzene-d4 | 142022 | 9.085 | 122478 | 9.084 | 116 | 50 - 200 | 0.001 | +/-0.50 | |
| Naphthalene-d8 | 504872 | 11.572 | 459261 | 11.572 | 110 | 50 - 200 | 0.000 | +/-0.50 | |
| Acenaphthene-d10 | 275869 | 15.193 | 264106 | 15.193 | 104 | 50 - 200 | 0.000 | +/-0.50 | |
| Phenanthrene-d10 | 499862 | 18.245 | 503255 | 18.253 | 99 | 50 - 200 | -0.008 | +/-0.50 | |
| Chrysene-d12 | 433161 | 23.345 | 437735 | 23.345 | 99 | 50 - 200 | 0.000 | +/-0.50 | |
| Di-n-Octylphthalate-d4 | 617649 | 24.414 | 700191 | 24.413 | 88 | 50 - 200 | 0.001 | +/-0.50 | |
| Perylene-d12 | 494952 | 26.024 | 499049 | 26.024 | 99 | 50 - 200 | 0.000 | +/-0.50 | |
| Blank (BLC0442-BLK1) | | (Solid) | Lab File ID: NT1003222306.D | | | Analyzed: 03/22/23 20:16 | | | |
| 1,4-Dichlorobenzene-d4 | 166416 | 9.084 | 122478 | 9.084 | 136 | 50 - 200 | 0.000 | +/-0.50 | |
| Naphthalene-d8 | 591408 | 11.572 | 459261 | 11.572 | 129 | 50 - 200 | 0.000 | +/-0.50 | |
| Acenaphthene-d10 | 325327 | 15.193 | 264106 | 15.193 | 123 | 50 - 200 | 0.000 | +/-0.50 | |
| Phenanthrene-d10 | 589824 | 18.245 | 503255 | 18.253 | 117 | 50 - 200 | -0.008 | +/-0.50 | |
| Chrysene-d12 | 493010 | 23.337 | 437735 | 23.345 | 113 | 50 - 200 | -0.008 | +/-0.50 | |
| Di-n-Octylphthalate-d4 | 751292 | 24.406 | 700191 | 24.413 | 107 | 50 - 200 | -0.007 | +/-0.50 | |
| Perylene-d12 | 544575 | 26.024 | 499049 | 26.024 | 109 | 50 - 200 | 0.000 | +/-0.50 | |
| LCS (BLC0442-BS1) | | (Solid) | Lab File ID: NT1003222307.D | | | Analyzed: 03/22/23 20:54 | | | |
| 1,4-Dichlorobenzene-d4 | 154744 | 9.084 | 122478 | 9.084 | 126 | 50 - 200 | 0.000 | +/-0.50 | |
| Naphthalene-d8 | 572840 | 11.572 | 459261 | 11.572 | 125 | 50 - 200 | 0.000 | +/-0.50 | |
| Acenaphthene-d10 | 327050 | 15.193 | 264106 | 15.193 | 124 | 50 - 200 | 0.000 | +/-0.50 | |
| Phenanthrene-d10 | 608606 | 18.253 | 503255 | 18.253 | 121 | 50 - 200 | 0.000 | +/-0.50 | |
| Chrysene-d12 | 516845 | 23.345 | 437735 | 23.345 | 118 | 50 - 200 | 0.000 | +/-0.50 | |
| Di-n-Octylphthalate-d4 | 860923 | 24.414 | 700191 | 24.413 | 123 | 50 - 200 | 0.001 | +/-0.50 | |
| Perylene-d12 | 580418 | 26.024 | 499049 | 26.024 | 116 | 50 - 200 | 0.000 | +/-0.50 | |



INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor OEA, LLC

Project: AOC5 MR Phase 1

Sequence: SLC0397

Instrument: NT10

Calibration: GC00046

| Internal Standard | Response | RT | Reference Response | Reference RT | Area % | Area % Limits | RT Diff | RT Diff Limit | Q |
|--|----------|---------|-----------------------------|--------------|--------|--------------------------|---------|---------------|---|
| LCS Dup (BLC0442-BSD1) | | (Solid) | Lab File ID: NT1003222308.D | | | Analyzed: 03/22/23 21:32 | | | |
| 1,4-Dichlorobenzene-d4 | 153308 | 9.084 | 122478 | 9.084 | 125 | 50 - 200 | 0.000 | +/-0.50 | |
| Naphthalene-d8 | 557553 | 11.572 | 459261 | 11.572 | 121 | 50 - 200 | 0.000 | +/-0.50 | |
| Acenaphthene-d10 | 313522 | 15.193 | 264106 | 15.193 | 119 | 50 - 200 | 0.000 | +/-0.50 | |
| Phenanthrene-d10 | 578188 | 18.253 | 503255 | 18.253 | 115 | 50 - 200 | 0.000 | +/-0.50 | |
| Chrysene-d12 | 508151 | 23.345 | 437735 | 23.345 | 116 | 50 - 200 | 0.000 | +/-0.50 | |
| Di-n-Octylphthalate-d4 | 831957 | 24.414 | 700191 | 24.413 | 119 | 50 - 200 | 0.001 | +/-0.50 | |
| Perylene-d12 | 558473 | 26.024 | 499049 | 26.024 | 112 | 50 - 200 | 0.000 | +/-0.50 | |
| Reference (BLC0442-SRM1) | | (Solid) | Lab File ID: NT1003222309.D | | | Analyzed: 03/22/23 22:10 | | | |
| 1,4-Dichlorobenzene-d4 | 176010 | 9.084 | 122478 | 9.084 | 144 | 50 - 200 | 0.000 | +/-0.50 | |
| Naphthalene-d8 | 626650 | 11.572 | 459261 | 11.572 | 136 | 50 - 200 | 0.000 | +/-0.50 | |
| Acenaphthene-d10 | 347719 | 15.193 | 264106 | 15.193 | 132 | 50 - 200 | 0.000 | +/-0.50 | |
| Phenanthrene-d10 | 641196 | 18.245 | 503255 | 18.253 | 127 | 50 - 200 | -0.008 | +/-0.50 | |
| Chrysene-d12 | 540321 | 23.345 | 437735 | 23.345 | 123 | 50 - 200 | 0.000 | +/-0.50 | |
| Di-n-Octylphthalate-d4 | 939788 | 24.414 | 700191 | 24.413 | 134 | 50 - 200 | 0.001 | +/-0.50 | |
| Perylene-d12 | 620785 | 26.024 | 499049 | 26.024 | 124 | 50 - 200 | 0.000 | +/-0.50 | |
| Initial Cal Check (SLC0397-ICV2) | | (Solid) | Lab File ID: NT1003222317.D | | | Analyzed: 03/23/23 03:15 | | | |
| 1,4-Dichlorobenzene-d4 | 137603 | 9.085 | 137603 | 9.085 | 100 | 50 - 200 | 0.000 | +/-0.50 | |
| Naphthalene-d8 | 494588 | 11.572 | 494588 | 11.572 | 100 | 50 - 200 | 0.000 | +/-0.50 | |
| Acenaphthene-d10 | 278674 | 15.201 | 278674 | 15.201 | 100 | 50 - 200 | 0.000 | +/-0.50 | |
| Phenanthrene-d10 | 509229 | 18.26 | 509229 | 18.26 | 100 | 50 - 200 | 0.000 | +/-0.50 | |
| Chrysene-d12 | 462271 | 23.353 | 462271 | 23.353 | 100 | 50 - 200 | 0.000 | +/-0.50 | |
| Di-n-Octylphthalate-d4 | 782572 | 24.421 | 782572 | 24.421 | 100 | 50 - 200 | 0.000 | +/-0.50 | |
| Perylene-d12 | 551153 | 26.04 | 551153 | 26.04 | 100 | 50 - 200 | 0.000 | +/-0.50 | |
| Low Cal Check (SLC0397-LCV2) | | (Solid) | Lab File ID: NT1003222319.D | | | Analyzed: 03/23/23 04:30 | | | |
| 1,4-Dichlorobenzene-d4 | 136247 | 9.085 | 137603 | 9.085 | 99 | 50 - 200 | 0.000 | +/-0.50 | |
| Naphthalene-d8 | 480759 | 11.572 | 494588 | 11.572 | 97 | 50 - 200 | 0.000 | +/-0.50 | |
| Acenaphthene-d10 | 262317 | 15.201 | 278674 | 15.201 | 94 | 50 - 200 | 0.000 | +/-0.50 | |
| Phenanthrene-d10 | 483839 | 18.253 | 509229 | 18.26 | 95 | 50 - 200 | -0.007 | +/-0.50 | |
| Chrysene-d12 | 443368 | 23.353 | 462271 | 23.353 | 96 | 50 - 200 | 0.000 | +/-0.50 | |
| Di-n-Octylphthalate-d4 | 679545 | 24.422 | 782572 | 24.421 | 87 | 50 - 200 | 0.001 | +/-0.50 | |
| Perylene-d12 | 516437 | 26.048 | 551153 | 26.04 | 94 | 50 - 200 | 0.008 | +/-0.50 | |



INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270E

Laboratory: Analytical Resources, LLC
Client: Anchor OEA, LLC
Sequence: SLC0397

SDG: 23A0180
Project: AOC5 MR Phase 1
Instrument: NT10
Calibration: GC00046

| Internal Standard | Response | RT | Reference Response | Reference RT | Area % | Area % Limits | RT Diff | RT Diff Limit | Q |
|---|----------|---------|-----------------------------|--------------|--------|--------------------------|---------|---------------|---|
| Blank (BLC0442-BLK3) | | (Solid) | Lab File ID: NT1003222321.D | | | Analyzed: 03/23/23 05:46 | | | |
| 1,4-Dichlorobenzene-d4 | 161589 | 9.084 | 137603 | 9.085 | 117 | 50 - 200 | -0.001 | +/-0.50 | |
| Naphthalene-d8 | 572184 | 11.572 | 494588 | 11.572 | 116 | 50 - 200 | 0.000 | +/-0.50 | |
| Acenaphthene-d10 | 315580 | 15.201 | 278674 | 15.201 | 113 | 50 - 200 | 0.000 | +/-0.50 | |
| Phenanthrene-d10 | 596777 | 18.253 | 509229 | 18.26 | 117 | 50 - 200 | -0.007 | +/-0.50 | |
| Chrysene-d12 | 504797 | 23.353 | 462271 | 23.353 | 109 | 50 - 200 | 0.000 | +/-0.50 | |
| Di-n-Octylphthalate-d4 | 820765 | 24.429 | 782572 | 24.421 | 105 | 50 - 200 | 0.008 | +/-0.50 | |
| Perylene-d12 | 587644 | 26.039 | 551153 | 26.04 | 107 | 50 - 200 | -0.001 | +/-0.50 | |
| LDW23-SC1164 (23A0180-01RE1) | | (Solid) | Lab File ID: NT1003222329.D | | | Analyzed: 03/23/23 10:49 | | | |
| 1,4-Dichlorobenzene-d4 | 145254 | 9.092 | 137603 | 9.085 | 106 | 50 - 200 | 0.007 | +/-0.50 | |
| Naphthalene-d8 | 532212 | 11.58 | 494588 | 11.572 | 108 | 50 - 200 | 0.008 | +/-0.50 | |
| Acenaphthene-d10 | 297565 | 15.209 | 278674 | 15.201 | 107 | 50 - 200 | 0.008 | +/-0.50 | |
| Phenanthrene-d10 | 574478 | 18.268 | 509229 | 18.26 | 113 | 50 - 200 | 0.008 | +/-0.50 | |
| Chrysene-d12 | 520470 | 23.369 | 462271 | 23.353 | 113 | 50 - 200 | 0.016 | +/-0.50 | |
| Di-n-Octylphthalate-d4 | 839017 | 24.437 | 782572 | 24.421 | 107 | 50 - 200 | 0.016 | +/-0.50 | |
| Perylene-d12 | 558336 | 26.071 | 551153 | 26.04 | 101 | 50 - 200 | 0.031 | +/-0.50 | |
| LDW23-SC1164-FD (23A0180-02RE1) | | (Solid) | Lab File ID: NT1003222330.D | | | Analyzed: 03/23/23 11:27 | | | |
| 1,4-Dichlorobenzene-d4 | 148251 | 9.084 | 137603 | 9.085 | 108 | 50 - 200 | -0.001 | +/-0.50 | |
| Naphthalene-d8 | 532416 | 11.58 | 494588 | 11.572 | 108 | 50 - 200 | 0.008 | +/-0.50 | |
| Acenaphthene-d10 | 296317 | 15.208 | 278674 | 15.201 | 106 | 50 - 200 | 0.007 | +/-0.50 | |
| Phenanthrene-d10 | 570943 | 18.268 | 509229 | 18.26 | 112 | 50 - 200 | 0.008 | +/-0.50 | |
| Chrysene-d12 | 509451 | 23.368 | 462271 | 23.353 | 110 | 50 - 200 | 0.015 | +/-0.50 | |
| Di-n-Octylphthalate-d4 | 823614 | 24.437 | 782572 | 24.421 | 105 | 50 - 200 | 0.016 | +/-0.50 | |
| Perylene-d12 | 532034 | 26.078 | 551153 | 26.04 | 97 | 50 - 200 | 0.038 | +/-0.50 | |
| LDW23-SC1158 (23A0180-03RE1) | | (Solid) | Lab File ID: NT1003222331.D | | | Analyzed: 03/23/23 12:05 | | | |
| 1,4-Dichlorobenzene-d4 | 143040 | 9.085 | 137603 | 9.085 | 104 | 50 - 200 | 0.000 | +/-0.50 | |
| Naphthalene-d8 | 525497 | 11.572 | 494588 | 11.572 | 106 | 50 - 200 | 0.000 | +/-0.50 | |
| Acenaphthene-d10 | 293707 | 15.201 | 278674 | 15.201 | 105 | 50 - 200 | 0.000 | +/-0.50 | |
| Phenanthrene-d10 | 571286 | 18.261 | 509229 | 18.26 | 112 | 50 - 200 | 0.001 | +/-0.50 | |
| Chrysene-d12 | 504676 | 23.353 | 462271 | 23.353 | 109 | 50 - 200 | 0.000 | +/-0.50 | |
| Di-n-Octylphthalate-d4 | 840395 | 24.421 | 782572 | 24.421 | 107 | 50 - 200 | 0.000 | +/-0.50 | |
| Perylene-d12 | 540499 | 26.047 | 551153 | 26.04 | 98 | 50 - 200 | 0.007 | +/-0.50 | |



INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor OEA, LLC

Project: AOC5 MR Phase 1

Sequence: SLC0397

Instrument: NT10

Calibration: GC00046

| Internal Standard | Response | RT | Reference Response | Reference RT | Area % | Area % Limits | RT Diff | RT Diff Limit | Q |
|--|----------|---------|-----------------------------|--------------|--------|--------------------------|---------|---------------|---|
| LDW23-SC1151 (23A0180-04RE1) | | (Solid) | Lab File ID: NT1003222332.D | | | Analyzed: 03/23/23 12:44 | | | |
| 1,4-Dichlorobenzene-d4 | 131766 | 9.084 | 137603 | 9.085 | 96 | 50 - 200 | -0.001 | +/-0.50 | |
| Naphthalene-d8 | 490237 | 11.572 | 494588 | 11.572 | 99 | 50 - 200 | 0.000 | +/-0.50 | |
| Acenaphthene-d10 | 275820 | 15.201 | 278674 | 15.201 | 99 | 50 - 200 | 0.000 | +/-0.50 | |
| Phenanthrene-d10 | 521708 | 18.252 | 509229 | 18.26 | 102 | 50 - 200 | -0.008 | +/-0.50 | |
| Chrysene-d12 | 490258 | 23.353 | 462271 | 23.353 | 106 | 50 - 200 | 0.000 | +/-0.50 | |
| Di-n-Octylphthalate-d4 | 791503 | 24.421 | 782572 | 24.421 | 101 | 50 - 200 | 0.000 | +/-0.50 | |
| Perylene-d12 | 520088 | 26.047 | 551153 | 26.04 | 94 | 50 - 200 | 0.007 | +/-0.50 | |
| Calibration Check (SLC0397-CCV1) | | (Solid) | Lab File ID: NT1003222333.D | | | Analyzed: 03/23/23 13:22 | | | |
| 1,4-Dichlorobenzene-d4 | 115795 | 9.085 | 137603 | 9.085 | 84 | 50 - 200 | 0.000 | +/-0.50 | |
| Naphthalene-d8 | 422030 | 11.572 | 494588 | 11.572 | 85 | 50 - 200 | 0.000 | +/-0.50 | |
| Acenaphthene-d10 | 244644 | 15.201 | 278674 | 15.201 | 88 | 50 - 200 | 0.000 | +/-0.50 | |
| Phenanthrene-d10 | 458729 | 18.253 | 509229 | 18.26 | 90 | 50 - 200 | -0.007 | +/-0.50 | |
| Chrysene-d12 | 445472 | 23.345 | 462271 | 23.353 | 96 | 50 - 200 | -0.008 | +/-0.50 | |
| Di-n-Octylphthalate-d4 | 714340 | 24.406 | 782572 | 24.421 | 91 | 50 - 200 | -0.015 | +/-0.50 | |
| Perylene-d12 | 483312 | 26.024 | 551153 | 26.04 | 88 | 50 - 200 | -0.016 | +/-0.50 | |



HOLDING TIME SUMMARY

Analysis: EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

| Sample Name | Date Collected | Date Received | Date Prepared | Days to Prep | Max Days to Prep | Date Analyzed | Days to Analysis | Max Days to Analysis | Q |
|----------------------------------|-------------------|-------------------|-------------------|--------------|------------------|-------------------|------------------|----------------------|---|
| LDW23-SC1164 23A0180-01 | 01/10/23 08:05 | 01/10/23 17:10 | 01/25/23 14:20 | 15 | 365 | 03/02/23 03:27 | 36 | 40 | |
| LDW23-SC1164 23A0180-01RE1 | 01/10/23 08:05 | 01/10/23 17:10 | 03/17/23 11:16 | 66 | 365 | 03/23/23 10:49 | 6 | 40 | |
| LDW23-SC1164-FD 23A0180-02 | 01/10/23 08:05 | 01/10/23 17:10 | 01/25/23 14:20 | 15 | 365 | 03/02/23 04:03 | 36 | 40 | |
| LDW23-SC1164-FD 23A0180-02RE1 | 01/10/23 08:05 | 01/10/23 17:10 | 03/17/23 11:16 | 66 | 365 | 03/23/23 11:27 | 6 | 40 | |
| LDW23-SC1158 23A0180-03 | 01/10/23 08:33 | 01/10/23 17:10 | 01/25/23 14:20 | 15 | 365 | 03/02/23 04:39 | 36 | 40 | |
| LDW23-SC1158 23A0180-03RE1 | 01/10/23 08:33 | 01/10/23 17:10 | 03/17/23 11:16 | 66 | 365 | 03/23/23 12:05 | 6 | 40 | |
| LDW23-SC1151 23A0180-04 | 01/10/23 09:07 | 01/10/23 17:10 | 01/25/23 14:20 | 15 | 365 | 03/02/23 05:15 | 36 | 40 | |
| LDW23-SC1151 23A0180-04RE1 | 01/10/23 09:07 | 01/10/23 17:10 | 03/17/23 11:16 | 66 | 365 | 03/23/23 12:44 | 6 | 40 | |

* Indicates hold time exceedance.



METHOD DETECTION AND REPORTING LIMITS

EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Matrix: Solid

Instrument: NT10

| Analyte | MDL | RL | Units |
|-----------------------------|------|------|-------|
| Phenol | 4.4 | 20.0 | ug/kg |
| 4-Methylphenol | 7.4 | 20.0 | ug/kg |
| Naphthalene | 4.2 | 20.0 | ug/kg |
| 2-Methylnaphthalene | 4.5 | 20.0 | ug/kg |
| Acenaphthylene | 6.2 | 20.0 | ug/kg |
| Dimethylphthalate | 4.4 | 20.0 | ug/kg |
| Acenaphthene | 5.2 | 20.0 | ug/kg |
| Dibenzofuran | 14.1 | 20.0 | ug/kg |
| Fluorene | 14.6 | 20.0 | ug/kg |
| Phenanthrene | 8.7 | 20.0 | ug/kg |
| Anthracene | 7.2 | 20.0 | ug/kg |
| Fluoranthene | 6.1 | 20.0 | ug/kg |
| Pyrene | 5.7 | 20.0 | ug/kg |
| Butylbenzylphthalate | 9.4 | 20.0 | ug/kg |
| Benzo(a)anthracene | 6.0 | 20.0 | ug/kg |
| Chrysene | 6.1 | 20.0 | ug/kg |
| bis(2-Ethylhexyl)phthalate | 5.5 | 50.0 | ug/kg |
| Benzo(a)fluoranthene, Total | 10.0 | 40.0 | ug/kg |
| Benzo(a)pyrene | 4.2 | 20.0 | ug/kg |
| Indeno(1,2,3-cd)pyrene | 14.7 | 20.0 | ug/kg |
| Dibenzo(a,h)anthracene | 17.2 | 20.0 | ug/kg |
| Benzo(g,h,i)perylene | 13.6 | 20.0 | ug/kg |



METHOD DETECTION AND REPORTING LIMITS

EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor OEA, LLC

Project: AOC5 MR Phase 1

Matrix: Solid

Instrument: NT14

| Analyte | MDL | RL | Units |
|------------------------------|------|------|-------|
| Phenol | 4.4 | 20.0 | ug/kg |
| 4-Methylphenol | 7.4 | 20.0 | ug/kg |
| Naphthalene | 4.2 | 20.0 | ug/kg |
| 2-Methylnaphthalene | 4.5 | 20.0 | ug/kg |
| Acenaphthylene | 6.2 | 20.0 | ug/kg |
| Dimethylphthalate | 4.4 | 20.0 | ug/kg |
| Acenaphthene | 5.2 | 20.0 | ug/kg |
| Dibenzofuran | 14.1 | 20.0 | ug/kg |
| Fluorene | 14.6 | 20.0 | ug/kg |
| Phenanthrene | 8.7 | 20.0 | ug/kg |
| Anthracene | 7.2 | 20.0 | ug/kg |
| Fluoranthene | 6.1 | 20.0 | ug/kg |
| Pyrene | 5.7 | 20.0 | ug/kg |
| Butylbenzylphthalate | 9.4 | 20.0 | ug/kg |
| Benzo(a)anthracene | 6.0 | 20.0 | ug/kg |
| Chrysene | 6.1 | 20.0 | ug/kg |
| bis(2-Ethylhexyl)phthalate | 5.5 | 50.0 | ug/kg |
| Benzo(a)fluoranthenes, Total | 10.0 | 40.0 | ug/kg |
| Benzo(a)pyrene | 4.2 | 20.0 | ug/kg |
| Indeno(1,2,3-cd)pyrene | 14.7 | 20.0 | ug/kg |
| Dibenzo(a,h)anthracene | 17.2 | 20.0 | ug/kg |
| Benzo(g,h,i)perylene | 13.6 | 20.0 | ug/kg |



| | | | |
|---------------------|------------------------|--------------|-----------------------|
| Description: | SVOC 2,4-Dinitrophenol | Expires: | 31-Dec-29 |
| Standard Type: | Calibration Stan | Prepared: | 25-Sep-13 |
| Solvent: | NA | Prepared By: | Jianqing Zhou |
| Final Volume (mls): | 1 | Department: | Organics |
| Vials: | 1 | Last Edit: | 25-Sep-13 13:45 by JZ |
| Vendor: | SIGMA | Lot #: | 65H5021 |
| Vendor Catalog #: | | | |

Comments

Neat, Purity @ 90-95%. (ARI#: 0466)

| Analyte | CAS Number | Concentration | Units |
|-------------------|------------|---------------|-------|
| 2,4-Dinitrophenol | 51-28-5 | 1000000 | ug/mL |

B001941

SVOA 2,4-Dinitrophenol
Expires 12/31/2029
Prepared By Jianqing Zhou 9/25/2013



Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer: _____

Chemical: 2,4-Dinitrophenol

Manufacturer: Sigma

Product #: _____

Lot #: 644 5021

Purity: 90.29%

Analyst: AB



| | | | |
|---------------------|-------------------|--------------|-----------------------|
| Description: | SVOC Benzoic Acid | Expires: | 31-Dec-29 |
| Standard Type: | Calibration Stan | Prepared: | 31-Dec-12 |
| Solvent: | NA | Prepared By: | Jianqing Zhou |
| Final Volume (mls): | 1 | Department: | Organics |
| Vials: | 1 | Last Edit: | 25-Sep-13 15:23 by JZ |
| Vendor: | ACROS Organics | Lot #: | A0224339 |
| Vendor Catalog #: | | | |

Comments

Neat, Purity @ 98%.

| Analyte | CAS Number | Concentration | Units |
|--------------|------------|---------------|-------|
| Benzoic acid | 65-85-0 | 1000000 | ug/mL |

B001945

SVOC Benzoic Acid
Expires 12/31/2029

Prepared By Jianqing Zhou 12/31/2012

Reviewed By

Date



Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer: _____

Chemical: Benzoic Acid

Manufacturer: Acros Organics

Product #: _____

Lot #: A0224339

Purity: 98%

Analyst: AB



Description: SVOC 4,6-Dinitro-2-Methylphenol Expires: 31-Dec-29
Standard Type: Calibration Stan Prepared: 25-Sep-13
Solvent: NA Prepared By: Jianqing Zhou
Final Volume (mls): 1 Department: Organics
Vials: 1 Last Edit: 25-Sep-13 15:37 by JZ
Vendor: Chem Service Lot #: 179-31A
Vendor Catalog #:

Comments

Neat, Purity @ 99%. (ARI#: 009A)

| Analyte | CAS Number | Concentration | Units |
|----------------------------|------------|---------------|-------|
| 4,6-Dinitro-2-methylphenol | 534-52-1 | 1000000 | ug/mL |

B001948

SVOA 4,6-Dinitro-2-Methylphenol
Expires 12/31/2029
Prepared By Jianqing Zhou 9/25/2013



Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer: _____

Chemical: 4,6-Dinitro-2-Methylphenol

Manufacturer: Chem Service

Product #: _____

Lot #: 179-31A

Purity: 99%

Analyst: RB



| | | | |
|---------------------|--------------------------|--------------|-----------------------|
| Description: | SVOA 1-Methylnaphthalene | Expires: | 02-Apr-14 |
| Standard Type: | Analyte Spike | Prepared: | 13-Dec-12 |
| Solvent: | NA | Prepared By: | Jianqing Zhou |
| Final Volume (mls): | 1 | Department: | Organics |
| Vials: | 1 | Last Edit: | 04-Oct-13 18:32 by JZ |
| Vendor: | Chem Service | Lot #: | 62-5B |
| Vendor Catalog #: | | | |

Comments

Neat, Purity @ 99%

| Analyte | CAS Number | Concentration | Units |
|---------------------|------------|---------------|-------|
| 1-Methylnaphthalene | 90-12-0 | 1000000 | ug/mL |



B002054
SVOA 1-Methylnaphthalene
Solvent / Lot: NA
Prep: 12/13/2012 by JZ
Exp: 12/31/2029
Location:



Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer: _____

Chemical: 1-Methyl naphthalene

Manufacturer: Chem Service

Product #: 0787

Lot #: 62-53

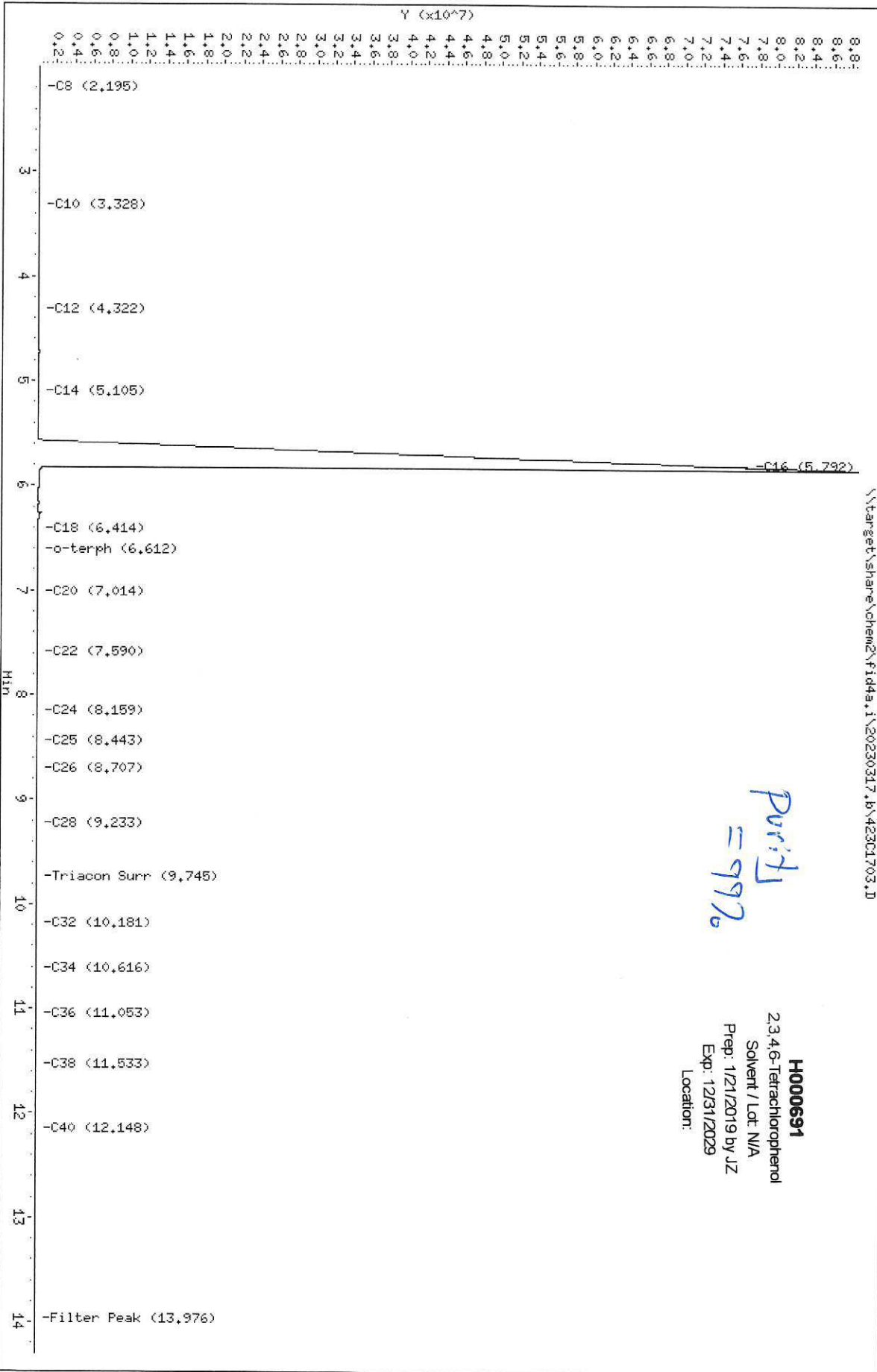
Purity: 99%

Analyst: AB

Data File: \\target\share\chem2\fid4a,1\20230317,1\42301703.D
Date: 17-MAR-2023 10:46
Client ID:
Sample Info: K007226

Column phase: RTX-1

Instrument: fid4a.i
Operator: AA
Column diameter: 0.25



Purity
= 99.7%

H000691
2,3,4,6-Tetrachlorophenol
Solvent / Lot: N/A
Prep: 1/21/2019 by JZ
Exp: 12/31/2029
Location:

H000691

ARI Labs, Inc.

Data file : \\target\share\chem2\fid4a.i\20230317.b\423C1703.D
 Lab Smp Id: K007226
 Inj Date : 17-MAR-2023 10:46
 Operator : AA Inst ID: fid4a.i
 Smp Info : K007226
 Misc Info :
 Comment :
 Method : \\target\share\chem2\fid4a.i\20230317.b\FID4TPH.m
 Meth Date : 17-Mar-2023 16:58 alfonso Quant Type: AREA%
 Cal Date : 18-AUG-2022 11:51 Cal File: 422H1803.D
 Als bottle: 10
 Dil Factor: 1.00000
 Integrator: Falcon+ Compound Sublist: tph.sub
 Target Version: 4.14
 Processing Host: ALFONSO-201901

Concentration Formula: Amt * DF * CpndVariable
 Cpnd Variable Local Compound Variable

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|-------|-------|--------|---------|--------|-----------|
| 2.043 | 81395 | 55677 | 0.684 | 0.012 | 1 Toluene |
| 2.074 | 68503 | 39991 | 0.584 | 0.010 | |
| 2.104 | 85451 | 37158 | 0.435 | 0.012 | |
| 2.146 | 59381 | 25207 | 0.424 | 0.008 | |
| 2.181 | 11414 | 22862 | 2.003 | 0.001 | |
| 2.195 | 34939 | 23199 | 0.664 | 0.005 | 2 C8 |
| 2.218 | 8679 | 21808 | 2.513 | 0.001 | |
| 2.224 | 21070 | 21832 | 1.036 | 0.003 | |
| 2.243 | 45086 | 20191 | 0.448 | 0.006 | |
| 2.286 | 3130 | 15677 | 5.009 | 0.000 | |
| 2.291 | 12615 | 15880 | 1.259 | 0.001 | |
| 2.313 | 20979 | 15888 | 0.757 | 0.003 | |
| 2.333 | 7621 | 15373 | 2.017 | 0.001 | |
| 2.348 | 31874 | 17112 | 0.537 | 0.004 | |
| 2.373 | 4619 | 13267 | 2.872 | 0.000 | |
| 2.380 | 12003 | 13446 | 1.120 | 0.001 | |
| 2.393 | 10327 | 13347 | 1.292 | 0.001 | |
| 2.408 | 9963 | 12697 | 1.274 | 0.001 | |
| 2.446 | 24366 | 11882 | 0.488 | 0.003 | |
| 2.498 | 24898 | 10214 | 0.410 | 0.003 | |
| 2.557 | 1592 | 6395 | 4.017 | 0.000 | |
| 2.570 | 4427 | 6384 | 1.442 | 0.000 | |
| 2.583 | 4275 | 6215 | 1.454 | 0.000 | |
| 2.595 | 1208 | 6068 | 5.024 | 0.000 | |
| 2.602 | 3076 | 6230 | 2.025 | 0.000 | |
| 2.607 | 1560 | 6270 | 4.019 | 0.000 | |
| 2.631 | 17195 | 8933 | 0.520 | 0.002 | |
| 2.654 | 17386 | 7637 | 0.439 | 0.002 | |
| 2.703 | 4531 | 5468 | 1.207 | 0.000 | |
| 2.717 | 9156 | 5741 | 0.627 | 0.001 | |
| 2.740 | 3955 | 5045 | 1.275 | 0.000 | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|-------|-------|--------|---------|--------|-----------|
| 2.768 | 1029 | 4134 | 4.017 | 0.000 | |
| 2.771 | 830 | 4189 | 5.050 | 0.000 | |
| 2.778 | 1924 | 4438 | 2.307 | 0.000 | |
| 2.784 | 5498 | 4564 | 0.830 | 0.000 | |
| 2.846 | 25970 | 8400 | 0.323 | 0.003 | |
| 2.880 | 939 | 3165 | 3.370 | 0.000 | |
| 2.884 | 1885 | 3183 | 1.688 | 0.000 | |
| 2.901 | 4805 | 3504 | 0.729 | 0.000 | |
| 2.938 | 581 | 1990 | 3.423 | 0.000 | |
| 2.944 | 1450 | 2016 | 1.390 | 0.000 | |
| 2.955 | 449 | 1816 | 4.043 | 0.000 | |
| 2.967 | 1234 | 2009 | 1.629 | 0.000 | |
| 2.982 | 712 | 2087 | 2.931 | 0.000 | |
| 2.988 | 1000 | 2338 | 2.337 | 0.000 | |
| 3.001 | 3475 | 3541 | 1.019 | 0.000 | |
| 3.018 | 3528 | 3705 | 1.050 | 0.000 | |
| 3.033 | 983 | 2521 | 2.564 | 0.000 | |
| 3.038 | 1297 | 2686 | 2.070 | 0.000 | |
| 3.044 | 2547 | 2541 | 0.997 | 0.000 | |
| 3.069 | 389 | 1330 | 3.418 | 0.000 | |
| 3.078 | 728 | 1545 | 2.123 | 0.000 | |
| 3.085 | 1244 | 1637 | 1.316 | 0.000 | |
| 3.098 | 1115 | 1624 | 1.457 | 0.000 | |
| 3.108 | 926 | 1475 | 1.593 | 0.000 | |
| 3.119 | 239 | 1202 | 5.036 | 0.000 | |
| 3.125 | 540 | 1251 | 2.315 | 0.000 | |
| 3.133 | 409 | 1219 | 2.978 | 0.000 | |
| 3.144 | 2600 | 1886 | 0.725 | 0.000 | |
| 3.165 | 620 | 1604 | 2.588 | 0.000 | |
| 3.173 | 554 | 1647 | 2.972 | 0.000 | |
| 3.192 | 2423 | 2273 | 0.938 | 0.000 | |
| 3.197 | 582 | 2418 | 4.158 | 0.000 | |
| 3.204 | 1161 | 2723 | 2.346 | 0.000 | |
| 3.208 | 825 | 2777 | 3.364 | 0.000 | |
| 3.228 | 4472 | 3391 | 0.758 | 0.000 | |
| 3.246 | 1586 | 2676 | 1.688 | 0.000 | |
| 3.279 | 1194 | 2070 | 1.734 | 0.000 | |
| 3.293 | 854 | 1951 | 2.285 | 0.000 | |
| 3.298 | 595 | 2029 | 3.408 | 0.000 | |
| 3.315 | 2640 | 2597 | 0.984 | 0.000 | |
| 3.320 | 1015 | 2542 | 2.504 | 0.000 | |
| 3.328 | 1549 | 2593 | 1.674 | 0.000 | 3 C10 |
| 3.338 | 1314 | 2533 | 1.928 | 0.000 | |
| 3.350 | 523 | 2159 | 4.130 | 0.000 | |
| 3.358 | 1776 | 2105 | 1.185 | 0.000 | |
| 3.371 | 356 | 1797 | 5.043 | 0.000 | |
| 3.378 | 914 | 1880 | 2.057 | 0.000 | |
| 3.383 | 380 | 1927 | 5.068 | 0.000 | |
| 3.387 | 595 | 2023 | 3.399 | 0.000 | |
| 3.395 | 1390 | 2270 | 1.633 | 0.000 | |
| 3.405 | 1490 | 1994 | 1.338 | 0.000 | |
| 3.423 | 690 | 1601 | 2.321 | 0.000 | |
| 3.435 | 821 | 1554 | 1.894 | 0.000 | |
| 3.441 | 387 | 1583 | 4.087 | 0.000 | |
| 3.444 | 401 | 1625 | 4.051 | 0.000 | |
| 3.448 | 403 | 1636 | 4.060 | 0.000 | |
| 3.455 | 1216 | 1700 | 1.398 | 0.000 | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|-------|------|--------|---------|--------|-----------|
| 3.478 | 235 | 1185 | 5.047 | 0.000 | |
| 3.482 | 412 | 1229 | 2.986 | 0.000 | |
| 3.488 | 695 | 1177 | 1.694 | 0.000 | |
| 3.501 | 239 | 969 | 4.063 | 0.000 | |
| 3.509 | 914 | 1149 | 1.258 | 0.000 | |
| 3.520 | 1078 | 1069 | 0.992 | 0.000 | |
| 3.540 | 301 | 927 | 3.079 | 0.000 | |
| 3.556 | 406 | 849 | 2.089 | 0.000 | |
| 3.567 | 370 | 873 | 2.359 | 0.000 | |
| 3.572 | 178 | 939 | 5.270 | 0.000 | |
| 3.578 | 591 | 1171 | 1.981 | 0.000 | |
| 3.591 | 869 | 1353 | 1.556 | 0.000 | |
| 3.596 | 741 | 1352 | 1.826 | 0.000 | |
| 3.606 | 471 | 1401 | 2.976 | 0.000 | |
| 3.613 | 548 | 1411 | 2.577 | 0.000 | |
| 3.618 | 433 | 1521 | 3.511 | 0.000 | |
| 3.625 | 710 | 1635 | 2.303 | 0.000 | |
| 3.630 | 910 | 1667 | 1.832 | 0.000 | |
| 3.652 | 661 | 1562 | 2.362 | 0.000 | |
| 3.670 | 462 | 1214 | 2.627 | 0.000 | |
| 3.686 | 1036 | 1453 | 1.403 | 0.000 | |
| 3.690 | 829 | 1374 | 1.658 | 0.000 | |
| 3.702 | 531 | 1191 | 2.241 | 0.000 | |
| 3.712 | 452 | 1355 | 3.001 | 0.000 | |
| 3.716 | 820 | 1423 | 1.736 | 0.000 | |
| 3.736 | 2685 | 2093 | 0.780 | 0.000 | |
| 3.752 | 689 | 2030 | 2.946 | 0.000 | |
| 3.760 | 4109 | 2349 | 0.572 | 0.000 | |
| 3.805 | 3183 | 2036 | 0.640 | 0.000 | |
| 3.823 | 496 | 1686 | 3.401 | 0.000 | |
| 3.835 | 1641 | 2314 | 1.410 | 0.000 | |
| 3.859 | 9243 | 4616 | 0.499 | 0.001 | |
| 3.897 | 851 | 1745 | 2.051 | 0.000 | |
| 3.904 | 503 | 1721 | 3.419 | 0.000 | |
| 3.927 | 3866 | 3293 | 0.852 | 0.000 | |
| 3.941 | 5520 | 3558 | 0.645 | 0.000 | |
| 3.980 | 573 | 1715 | 2.991 | 0.000 | |
| 3.992 | 1027 | 1794 | 1.748 | 0.000 | |
| 3.995 | 1494 | 1860 | 1.245 | 0.000 | |
| 4.010 | 887 | 1639 | 1.847 | 0.000 | |
| 4.021 | 663 | 1724 | 2.602 | 0.000 | |
| 4.026 | 1380 | 1776 | 1.287 | 0.000 | |
| 4.045 | 306 | 1546 | 5.059 | 0.000 | |
| 4.053 | 1001 | 1758 | 1.757 | 0.000 | |
| 4.061 | 1137 | 1804 | 1.586 | 0.000 | |
| 4.072 | 779 | 1773 | 2.275 | 0.000 | |
| 4.080 | 989 | 1896 | 1.917 | 0.000 | |
| 4.087 | 561 | 1905 | 3.396 | 0.000 | |
| 4.098 | 1956 | 2156 | 1.103 | 0.000 | |
| 4.106 | 1168 | 2044 | 1.750 | 0.000 | |
| 4.127 | 1049 | 1627 | 1.551 | 0.000 | |
| 4.142 | 587 | 1545 | 2.633 | 0.000 | |
| 4.148 | 1155 | 1572 | 1.361 | 0.000 | |
| 4.173 | 3682 | 2398 | 0.651 | 0.000 | |
| 4.189 | 1023 | 1738 | 1.700 | 0.000 | |
| 4.204 | 549 | 1627 | 2.961 | 0.000 | |
| 4.213 | 628 | 1658 | 2.641 | 0.000 | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|-------|--------|--------|---------|--------|-----------|
| 4.221 | 1039 | 1830 | 1.761 | 0.000 | |
| 4.227 | 447 | 1814 | 4.058 | 0.000 | |
| 4.248 | 2703 | 2638 | 0.976 | 0.000 | |
| 4.256 | 1387 | 2945 | 2.123 | 0.000 | |
| 4.260 | 743 | 2988 | 4.022 | 0.000 | |
| 4.265 | 912 | 3081 | 3.378 | 0.000 | |
| 4.268 | 779 | 3140 | 4.031 | 0.000 | |
| 4.275 | 1736 | 3217 | 1.853 | 0.000 | |
| 4.289 | 2688 | 3495 | 1.300 | 0.000 | |
| 4.295 | 3466 | 3448 | 0.995 | 0.000 | |
| 4.322 | 1054 | 2680 | 2.543 | 0.000 | 4 C12 |
| 4.330 | 1686 | 2627 | 1.558 | 0.000 | |
| 4.358 | 1066 | 1974 | 1.852 | 0.000 | |
| 4.378 | 434 | 1758 | 4.054 | 0.000 | |
| 4.384 | 1324 | 1879 | 1.419 | 0.000 | |
| 4.403 | 860 | 1608 | 1.869 | 0.000 | |
| 4.414 | 457 | 1567 | 3.431 | 0.000 | |
| 4.421 | 1117 | 1675 | 1.499 | 0.000 | |
| 4.433 | 910 | 1538 | 1.690 | 0.000 | |
| 4.439 | 865 | 1534 | 1.774 | 0.000 | |
| 4.449 | 764 | 1302 | 1.705 | 0.000 | |
| 4.471 | 433 | 1123 | 2.593 | 0.000 | |
| 4.476 | 734 | 1135 | 1.546 | 0.000 | |
| 4.490 | 385 | 1005 | 2.610 | 0.000 | |
| 4.498 | 555 | 1186 | 2.137 | 0.000 | |
| 4.502 | 695 | 1166 | 1.677 | 0.000 | |
| 4.518 | 587 | 949 | 1.618 | 0.000 | |
| 4.526 | 316 | 925 | 2.924 | 0.000 | |
| 4.533 | 560 | 989 | 1.765 | 0.000 | |
| 4.543 | 469 | 1001 | 2.135 | 0.000 | |
| 4.548 | 222 | 916 | 4.130 | 0.000 | |
| 4.553 | 188 | 980 | 5.207 | 0.000 | |
| 4.558 | 255 | 1038 | 4.076 | 0.000 | |
| 4.568 | 652 | 1157 | 1.775 | 0.000 | |
| 4.573 | 338 | 1151 | 3.409 | 0.000 | |
| 4.580 | 487 | 1283 | 2.636 | 0.000 | |
| 4.596 | 3801 | 1950 | 0.513 | 0.000 | |
| 4.631 | 531 | 1429 | 2.692 | 0.000 | |
| 4.663 | 4548 | 3737 | 0.822 | 0.000 | |
| 4.667 | 2815 | 3822 | 1.358 | 0.000 | |
| 4.679 | 2199 | 3760 | 1.710 | 0.000 | |
| 4.688 | 1068 | 3585 | 3.356 | 0.000 | |
| 4.694 | 2166 | 3742 | 1.727 | 0.000 | |
| 4.723 | 372603 | 172476 | 0.463 | 0.055 | |
| 4.894 | 47034 | 21828 | 0.464 | 0.006 | |
| 4.956 | 80510 | 28154 | 0.350 | 0.011 | |
| 4.999 | 54273 | 16950 | 0.312 | 0.008 | |
| 5.068 | 1137 | 5713 | 5.027 | 0.000 | |
| 5.072 | 8415 | 5792 | 0.688 | 0.001 | |
| 5.105 | 4203 | 4316 | 1.027 | 0.000 | 5 C14 |
| 5.146 | 660 | 2685 | 4.070 | 0.000 | |
| 5.153 | 2524 | 2649 | 1.050 | 0.000 | |
| 5.170 | 1076 | 2437 | 2.265 | 0.000 | |
| 5.174 | 2371 | 2438 | 1.028 | 0.000 | |
| 5.201 | 1013 | 2011 | 1.986 | 0.000 | |
| 5.210 | 2064 | 2332 | 1.130 | 0.000 | |
| 5.224 | 1083 | 2304 | 2.127 | 0.000 | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|-------|-----------|----------|---------|--------|--------------|
| 5.228 | 2027 | 2354 | 1.162 | 0.000 | |
| 5.276 | 4673 | 2682 | 0.574 | 0.000 | |
| 5.322 | 195 | 844 | 4.328 | 0.000 | |
| 5.331 | 977 | 1203 | 1.231 | 0.000 | |
| 5.356 | 490 | 993 | 2.027 | 0.000 | |
| 5.361 | 814 | 1044 | 1.283 | 0.000 | |
| 5.382 | 115 | 387 | 3.351 | 0.000 | |
| 5.399 | 619 | 960 | 1.551 | 0.000 | |
| 5.406 | 402 | 1035 | 2.576 | 0.000 | |
| 5.410 | 378 | 1122 | 2.968 | 0.000 | |
| 5.423 | 1663 | 1555 | 0.935 | 0.000 | |
| 5.452 | 5951 | 5020 | 0.844 | 0.000 | |
| 5.501 | 290 | 797 | 2.753 | 0.000 | |
| 5.523 | 2317 | 2472 | 1.067 | 0.000 | |
| 5.538 | 5946 | 6823 | 1.147 | 0.000 | |
| 5.792 | 501855376 | 76456669 | 0.152 | 74.449 | 6 C16 |
| 5.807 | 79757019 | 82319946 | 1.032 | 11.775 | |
| 5.823 | 77929961 | 88539160 | 1.136 | 11.505 | |
| 5.962 | 75333 | 84828 | 1.126 | 0.011 | |
| 5.986 | 474748 | 124326 | 0.262 | 0.070 | |
| 6.070 | 17103 | 57180 | 3.343 | 0.002 | |
| 6.074 | 120761 | 57565 | 0.477 | 0.017 | |
| 6.113 | 90233 | 47140 | 0.522 | 0.013 | |
| 6.165 | 407438 | 218439 | 0.536 | 0.060 | |
| 6.263 | 944101 | 374166 | 0.396 | 0.139 | |
| 6.414 | 114839 | 39498 | 0.344 | 0.016 | 7 C18 |
| 6.464 | 53190 | 31177 | 0.586 | 0.007 | |
| 6.523 | 31509 | 25870 | 0.821 | 0.004 | |
| 6.551 | 4785 | 23963 | 5.008 | 0.000 | |
| 6.559 | 51194 | 25409 | 0.496 | 0.007 | |
| 6.590 | 21354 | 21666 | 1.015 | 0.003 | |
| 6.612 | 35061 | 21127 | 0.603 | 0.005 | \$ 8 o-terph |
| 6.638 | 17712 | 19934 | 1.125 | 0.002 | |
| 6.672 | 22159 | 19651 | 0.887 | 0.003 | |
| 6.683 | 26846 | 19268 | 0.718 | 0.003 | |
| 6.708 | 5413 | 18142 | 3.351 | 0.000 | |
| 6.713 | 24941 | 18247 | 0.732 | 0.003 | |
| 6.747 | 50657 | 18478 | 0.365 | 0.007 | |
| 6.795 | 23973 | 17444 | 0.728 | 0.003 | |
| 6.814 | 28457 | 17895 | 0.629 | 0.004 | |
| 6.837 | 10746 | 15445 | 1.437 | 0.001 | |
| 6.871 | 29974 | 21406 | 0.714 | 0.004 | |
| 6.874 | 4287 | 21471 | 5.009 | 0.000 | |
| 6.882 | 20520 | 21675 | 1.056 | 0.003 | |
| 6.944 | 32864 | 17445 | 0.531 | 0.004 | |
| 6.978 | 9138 | 15347 | 1.679 | 0.001 | |
| 7.014 | 4130 | 13830 | 3.348 | 0.000 | 9 C20 |
| 7.025 | 12567 | 14083 | 1.121 | 0.001 | |
| 7.038 | 4952 | 14274 | 2.882 | 0.000 | |
| 7.044 | 6508 | 14578 | 2.240 | 0.000 | |
| 7.050 | 25344 | 14736 | 0.581 | 0.003 | |
| 7.099 | 5531 | 12365 | 2.236 | 0.000 | |
| 7.108 | 16440 | 12371 | 0.752 | 0.002 | |
| 7.129 | 9415 | 11275 | 1.198 | 0.001 | |
| 7.175 | 3589 | 10327 | 2.878 | 0.000 | |
| 7.182 | 7285 | 10474 | 1.438 | 0.001 | |
| 7.212 | 11252 | 10002 | 0.889 | 0.001 | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|-------|-------|--------|---------|--------|-----------|
| 7.227 | 5193 | 9506 | 1.830 | 0.000 | |
| 7.237 | 5172 | 9476 | 1.832 | 0.000 | |
| 7.247 | 4652 | 9357 | 2.011 | 0.000 | |
| 7.254 | 3258 | 9369 | 2.875 | 0.000 | |
| 7.259 | 7003 | 9455 | 1.350 | 0.001 | |
| 7.272 | 5540 | 9252 | 1.670 | 0.000 | |
| 7.283 | 4511 | 9087 | 2.014 | 0.000 | |
| 7.296 | 5828 | 9031 | 1.550 | 0.000 | |
| 7.308 | 4850 | 8866 | 1.828 | 0.000 | |
| 7.318 | 3111 | 9014 | 2.897 | 0.000 | |
| 7.324 | 3191 | 9168 | 2.873 | 0.000 | |
| 7.328 | 2775 | 9325 | 3.360 | 0.000 | |
| 7.339 | 6190 | 9713 | 1.569 | 0.000 | |
| 7.344 | 2920 | 9761 | 3.343 | 0.000 | |
| 7.350 | 17091 | 9874 | 0.578 | 0.002 | |
| 7.379 | 7217 | 8616 | 1.194 | 0.001 | |
| 7.395 | 5430 | 8408 | 1.548 | 0.000 | |
| 7.404 | 2492 | 8342 | 3.348 | 0.000 | |
| 7.409 | 1666 | 8354 | 5.014 | 0.000 | |
| 7.415 | 2955 | 8500 | 2.877 | 0.000 | |
| 7.423 | 3887 | 8782 | 2.259 | 0.000 | |
| 7.465 | 28160 | 14253 | 0.506 | 0.004 | |
| 7.471 | 6466 | 14499 | 2.242 | 0.000 | |
| 7.480 | 6649 | 15111 | 2.273 | 0.000 | |
| 7.484 | 26595 | 15197 | 0.571 | 0.003 | |
| 7.514 | 13964 | 13621 | 0.975 | 0.002 | |
| 7.539 | 8118 | 12614 | 1.554 | 0.001 | |
| 7.553 | 10540 | 12495 | 1.185 | 0.001 | |
| 7.584 | 2820 | 11307 | 4.010 | 0.000 | |
| 7.590 | 4522 | 11429 | 2.527 | 0.000 | 10 C22 |
| 7.620 | 16634 | 10435 | 0.627 | 0.002 | |
| 7.653 | 6793 | 9783 | 1.440 | 0.001 | |
| 7.663 | 8606 | 9666 | 1.123 | 0.001 | |
| 7.675 | 2827 | 9464 | 3.347 | 0.000 | |
| 7.683 | 9373 | 9620 | 1.026 | 0.001 | |
| 7.699 | 3657 | 9205 | 2.517 | 0.000 | |
| 7.708 | 5071 | 9290 | 1.832 | 0.000 | |
| 7.713 | 10483 | 9274 | 0.885 | 0.001 | |
| 7.735 | 10686 | 9257 | 0.866 | 0.001 | |
| 7.752 | 4732 | 8664 | 1.831 | 0.000 | |
| 7.765 | 5624 | 8765 | 1.558 | 0.000 | |
| 7.773 | 5614 | 8686 | 1.547 | 0.000 | |
| 7.784 | 3375 | 8506 | 2.520 | 0.000 | |
| 7.793 | 2118 | 8517 | 4.021 | 0.000 | |
| 7.799 | 10086 | 8544 | 0.847 | 0.001 | |
| 7.817 | 7761 | 8325 | 1.073 | 0.001 | |
| 7.833 | 2415 | 8088 | 3.350 | 0.000 | |
| 7.838 | 2838 | 8160 | 2.875 | 0.000 | |
| 7.844 | 3649 | 8173 | 2.240 | 0.000 | |
| 7.858 | 2009 | 8069 | 4.017 | 0.000 | |
| 7.864 | 4482 | 8197 | 1.829 | 0.000 | |
| 7.871 | 3688 | 8223 | 2.230 | 0.000 | |
| 7.879 | 4875 | 8269 | 1.696 | 0.000 | |
| 7.889 | 2009 | 8061 | 4.013 | 0.000 | |
| 7.897 | 4080 | 8308 | 2.036 | 0.000 | |
| 7.916 | 17828 | 10103 | 0.567 | 0.002 | |
| 7.935 | 4052 | 9086 | 2.242 | 0.000 | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|-------|-------|--------|---------|--------|-----------|
| 7.940 | 2229 | 8948 | 4.015 | 0.000 | |
| 7.945 | 5765 | 8973 | 1.556 | 0.000 | |
| 7.954 | 6458 | 8765 | 1.357 | 0.000 | |
| 7.976 | 2099 | 8428 | 4.016 | 0.000 | |
| 7.984 | 10213 | 8807 | 0.862 | 0.001 | |
| 7.999 | 4897 | 8282 | 1.691 | 0.000 | |
| 8.013 | 8782 | 8112 | 0.924 | 0.001 | |
| 8.028 | 5860 | 7858 | 1.341 | 0.000 | |
| 8.040 | 3929 | 7871 | 2.003 | 0.000 | |
| 8.054 | 9161 | 8146 | 0.889 | 0.001 | |
| 8.067 | 2701 | 7766 | 2.876 | 0.000 | |
| 8.074 | 3069 | 7702 | 2.510 | 0.000 | |
| 8.081 | 2694 | 7742 | 2.874 | 0.000 | |
| 8.088 | 2705 | 7793 | 2.881 | 0.000 | |
| 8.095 | 5842 | 7832 | 1.341 | 0.000 | |
| 8.104 | 5419 | 7841 | 1.447 | 0.000 | |
| 8.119 | 5740 | 7735 | 1.348 | 0.000 | |
| 8.134 | 4986 | 7768 | 1.558 | 0.000 | |
| 8.141 | 5893 | 8009 | 1.359 | 0.000 | |
| 8.159 | 9098 | 8027 | 0.882 | 0.001 | 11 C24 |
| 8.174 | 3156 | 7971 | 2.526 | 0.000 | |
| 8.185 | 2376 | 7967 | 3.353 | 0.000 | |
| 8.190 | 4739 | 7937 | 1.675 | 0.000 | |
| 8.202 | 5181 | 8028 | 1.549 | 0.000 | |
| 8.212 | 1994 | 8027 | 4.025 | 0.000 | |
| 8.223 | 6137 | 8270 | 1.348 | 0.000 | |
| 8.236 | 6864 | 8171 | 1.190 | 0.001 | |
| 8.248 | 2383 | 7986 | 3.351 | 0.000 | |
| 8.253 | 2405 | 8059 | 3.351 | 0.000 | |
| 8.259 | 5294 | 8207 | 1.550 | 0.000 | |
| 8.268 | 2866 | 8235 | 2.874 | 0.000 | |
| 8.280 | 6583 | 8312 | 1.263 | 0.000 | |
| 8.289 | 4538 | 8296 | 1.828 | 0.000 | |
| 8.295 | 2060 | 8300 | 4.029 | 0.000 | |
| 8.300 | 2063 | 8291 | 4.020 | 0.000 | |
| 8.313 | 7062 | 8400 | 1.189 | 0.001 | |
| 8.318 | 1667 | 8375 | 5.023 | 0.000 | |
| 8.332 | 11362 | 9100 | 0.801 | 0.001 | |
| 8.343 | 4357 | 8741 | 2.006 | 0.000 | |
| 8.358 | 1267 | 8458 | 6.676 | 0.000 | |
| 8.363 | 2991 | 8621 | 2.882 | 0.000 | |
| 8.371 | 3980 | 8983 | 2.257 | 0.000 | |
| 8.379 | 6330 | 9083 | 1.435 | 0.000 | |
| 8.385 | 3111 | 8963 | 2.881 | 0.000 | |
| 8.393 | 6706 | 9050 | 1.349 | 0.000 | |
| 8.404 | 4903 | 8943 | 1.824 | 0.000 | |
| 8.417 | 8437 | 8972 | 1.063 | 0.001 | |
| 8.438 | 7166 | 9103 | 1.270 | 0.001 | |
| 8.443 | 3211 | 9227 | 2.873 | 0.000 | 12 C25 |
| 8.450 | 3688 | 9295 | 2.521 | 0.000 | |
| 8.455 | 2313 | 9276 | 4.010 | 0.000 | |
| 8.475 | 30054 | 13714 | 0.456 | 0.004 | |
| 8.504 | 5760 | 9733 | 1.690 | 0.000 | |
| 8.519 | 2799 | 9376 | 3.350 | 0.000 | |
| 8.529 | 4766 | 9710 | 2.037 | 0.000 | |
| 8.537 | 4875 | 9815 | 2.013 | 0.000 | |
| 8.543 | 8411 | 9973 | 1.186 | 0.001 | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|-------|-------|--------|---------|--------|-----------|
| 8.555 | 2969 | 9916 | 3.340 | 0.000 | |
| 8.560 | 3974 | 9987 | 2.513 | 0.000 | |
| 8.568 | 2483 | 9997 | 4.026 | 0.000 | |
| 8.572 | 5007 | 10043 | 2.006 | 0.000 | |
| 8.591 | 14074 | 10725 | 0.762 | 0.002 | |
| 8.602 | 2648 | 10665 | 4.028 | 0.000 | |
| 8.606 | 2159 | 10862 | 5.032 | 0.000 | |
| 8.609 | 2183 | 10952 | 5.017 | 0.000 | |
| 8.633 | 7361 | 10561 | 1.435 | 0.001 | |
| 8.647 | 6774 | 10495 | 1.549 | 0.001 | |
| 8.658 | 2596 | 10420 | 4.014 | 0.000 | |
| 8.663 | 4723 | 10573 | 2.239 | 0.000 | |
| 8.669 | 3156 | 10589 | 3.355 | 0.000 | |
| 8.687 | 15405 | 11334 | 0.736 | 0.002 | |
| 8.699 | 6103 | 11158 | 1.828 | 0.000 | |
| 8.707 | 2223 | 11136 | 5.009 | 0.000 | 13 C26 |
| 8.730 | 28697 | 12536 | 0.437 | 0.004 | |
| 8.754 | 8658 | 11553 | 1.334 | 0.001 | |
| 8.763 | 2896 | 11612 | 4.010 | 0.000 | |
| 8.780 | 15029 | 12352 | 0.822 | 0.002 | |
| 8.788 | 1833 | 12243 | 6.680 | 0.000 | |
| 8.798 | 11854 | 12679 | 1.070 | 0.001 | |
| 8.806 | 1873 | 12509 | 6.677 | 0.000 | |
| 8.809 | 3133 | 12565 | 4.011 | 0.000 | |
| 8.813 | 2506 | 12550 | 5.008 | 0.000 | |
| 8.819 | 7588 | 12757 | 1.681 | 0.001 | |
| 8.829 | 4418 | 12679 | 2.870 | 0.000 | |
| 8.835 | 6988 | 12762 | 1.826 | 0.001 | |
| 8.848 | 13711 | 13258 | 0.967 | 0.002 | |
| 8.872 | 26625 | 13656 | 0.513 | 0.003 | |
| 8.894 | 4575 | 13127 | 2.869 | 0.000 | |
| 8.898 | 2631 | 13188 | 5.013 | 0.000 | |
| 8.902 | 5918 | 13262 | 2.241 | 0.000 | |
| 8.914 | 8577 | 13313 | 1.552 | 0.001 | |
| 8.922 | 4011 | 13433 | 3.349 | 0.000 | |
| 8.926 | 4724 | 13546 | 2.867 | 0.000 | |
| 8.933 | 6787 | 13651 | 2.011 | 0.001 | |
| 8.946 | 9614 | 13923 | 1.448 | 0.001 | |
| 8.951 | 6274 | 14004 | 2.232 | 0.000 | |
| 8.960 | 5592 | 14036 | 2.510 | 0.000 | |
| 8.966 | 3513 | 14090 | 4.011 | 0.000 | |
| 8.969 | 2829 | 14171 | 5.009 | 0.000 | |
| 8.973 | 4976 | 14233 | 2.860 | 0.000 | |
| 8.980 | 4289 | 14365 | 3.350 | 0.000 | |
| 8.996 | 27708 | 16441 | 0.593 | 0.004 | |
| 9.013 | 8129 | 14847 | 1.827 | 0.001 | |
| 9.025 | 8129 | 14840 | 1.826 | 0.001 | |
| 9.036 | 7503 | 15229 | 2.030 | 0.001 | |
| 9.040 | 4559 | 15225 | 3.340 | 0.000 | |
| 9.057 | 14920 | 16251 | 1.089 | 0.002 | |
| 9.067 | 9915 | 16831 | 1.698 | 0.001 | |
| 9.076 | 8535 | 17331 | 2.031 | 0.001 | |
| 9.081 | 5250 | 17596 | 3.352 | 0.000 | |
| 9.084 | 10558 | 17675 | 1.674 | 0.001 | |
| 9.095 | 4386 | 17601 | 4.013 | 0.000 | |
| 9.111 | 30564 | 19262 | 0.630 | 0.004 | |
| 9.128 | 8346 | 18722 | 2.243 | 0.001 | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|-------|-------|--------|---------|--------|--------------------|
| 9.139 | 15095 | 18986 | 1.258 | 0.002 | |
| 9.149 | 6655 | 19050 | 2.862 | 0.000 | |
| 9.158 | 23240 | 19719 | 0.848 | 0.003 | |
| 9.171 | 1903 | 19042 | 10.005 | 0.000 | |
| 9.175 | 4773 | 19156 | 4.013 | 0.000 | |
| 9.187 | 23630 | 19927 | 0.843 | 0.003 | |
| 9.199 | 4925 | 19763 | 4.013 | 0.000 | |
| 9.208 | 14115 | 20394 | 1.445 | 0.002 | |
| 9.219 | 12303 | 20691 | 1.682 | 0.001 | |
| 9.226 | 7266 | 20831 | 2.867 | 0.001 | |
| 9.233 | 15622 | 21000 | 1.344 | 0.002 | 14 C28 |
| 9.247 | 9280 | 20714 | 2.232 | 0.001 | |
| 9.262 | 45057 | 27849 | 0.618 | 0.006 | |
| 9.281 | 22651 | 23200 | 1.024 | 0.003 | |
| 9.304 | 13489 | 22820 | 1.692 | 0.001 | |
| 9.307 | 18038 | 22862 | 1.267 | 0.002 | |
| 9.328 | 8656 | 21778 | 2.516 | 0.001 | |
| 9.334 | 8635 | 21650 | 2.507 | 0.001 | |
| 9.343 | 16240 | 21738 | 1.339 | 0.002 | |
| 9.354 | 5409 | 21709 | 4.013 | 0.000 | |
| 9.367 | 16481 | 22234 | 1.349 | 0.002 | |
| 9.370 | 6683 | 22346 | 3.344 | 0.000 | |
| 9.382 | 14775 | 23166 | 1.568 | 0.002 | |
| 9.390 | 11679 | 23531 | 2.015 | 0.001 | |
| 9.394 | 12888 | 23584 | 1.830 | 0.001 | |
| 9.408 | 18752 | 23645 | 1.261 | 0.002 | |
| 9.416 | 4675 | 23396 | 5.004 | 0.000 | |
| 9.428 | 25138 | 24392 | 0.970 | 0.003 | |
| 9.438 | 20233 | 24095 | 1.191 | 0.002 | |
| 9.468 | 67429 | 26696 | 0.396 | 0.009 | |
| 9.496 | 8413 | 24122 | 2.867 | 0.001 | |
| 9.507 | 12049 | 24259 | 2.013 | 0.001 | |
| 9.527 | 36362 | 25771 | 0.709 | 0.005 | |
| 9.538 | 12891 | 25911 | 2.010 | 0.001 | |
| 9.543 | 6452 | 25853 | 4.007 | 0.000 | |
| 9.551 | 10420 | 26202 | 2.515 | 0.001 | |
| 9.557 | 29750 | 26593 | 0.894 | 0.004 | |
| 9.574 | 6252 | 25071 | 4.010 | 0.000 | |
| 9.593 | 29143 | 27655 | 0.949 | 0.004 | |
| 9.599 | 40783 | 27905 | 0.684 | 0.006 | |
| 9.620 | 13159 | 26364 | 2.004 | 0.001 | |
| 9.632 | 17259 | 26799 | 1.553 | 0.002 | |
| 9.640 | 13210 | 26592 | 2.013 | 0.001 | |
| 9.664 | 35362 | 28170 | 0.797 | 0.005 | |
| 9.672 | 27890 | 28134 | 1.009 | 0.004 | |
| 9.696 | 26737 | 28634 | 1.071 | 0.003 | |
| 9.711 | 53475 | 30848 | 0.577 | 0.007 | |
| 9.745 | 33266 | 29504 | 0.887 | 0.004 | \$ 15 Triacon Surr |
| 9.752 | 7348 | 29501 | 4.015 | 0.001 | |
| 9.756 | 20542 | 29565 | 1.439 | 0.003 | |
| 9.768 | 7255 | 29059 | 4.005 | 0.001 | |
| 9.773 | 7275 | 29173 | 4.010 | 0.001 | |
| 9.785 | 31543 | 30611 | 0.970 | 0.004 | |
| 9.803 | 46804 | 32832 | 0.701 | 0.006 | |
| 9.821 | 10456 | 30060 | 2.875 | 0.001 | |
| 9.833 | 30772 | 31156 | 1.012 | 0.004 | |
| 9.860 | 77784 | 33514 | 0.431 | 0.011 | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|--------|-------|--------|---------|--------|-----------|
| 9.881 | 12779 | 32069 | 2.510 | 0.001 | |
| 9.892 | 14531 | 32668 | 2.248 | 0.002 | |
| 9.896 | 8201 | 32902 | 4.012 | 0.001 | |
| 9.908 | 23357 | 33882 | 1.451 | 0.003 | |
| 9.912 | 27050 | 34095 | 1.260 | 0.003 | |
| 9.939 | 14585 | 32570 | 2.233 | 0.002 | |
| 9.951 | 23032 | 33095 | 1.437 | 0.003 | |
| 9.956 | 11596 | 33292 | 2.871 | 0.001 | |
| 9.966 | 16544 | 33271 | 2.011 | 0.002 | |
| 9.971 | 11660 | 33391 | 2.864 | 0.001 | |
| 9.975 | 10051 | 33617 | 3.345 | 0.001 | |
| 9.983 | 15209 | 33983 | 2.234 | 0.002 | |
| 9.988 | 15177 | 33830 | 2.229 | 0.002 | |
| 9.996 | 10128 | 33907 | 3.348 | 0.001 | |
| 10.018 | 43348 | 35629 | 0.822 | 0.006 | |
| 10.021 | 7133 | 35693 | 5.004 | 0.001 | |
| 10.025 | 8960 | 35988 | 4.016 | 0.001 | |
| 10.034 | 42064 | 36944 | 0.878 | 0.006 | |
| 10.063 | 65447 | 38699 | 0.591 | 0.009 | |
| 10.077 | 7375 | 36906 | 5.004 | 0.001 | |
| 10.083 | 16743 | 37428 | 2.235 | 0.002 | |
| 10.095 | 34467 | 38665 | 1.122 | 0.005 | |
| 10.118 | 90921 | 40621 | 0.447 | 0.013 | |
| 10.151 | 37738 | 38047 | 1.008 | 0.005 | |
| 10.158 | 11383 | 38037 | 3.342 | 0.001 | |
| 10.168 | 36074 | 38274 | 1.061 | 0.005 | |
| 10.181 | 15072 | 37809 | 2.509 | 0.002 | 16 C32 |
| 10.185 | 5655 | 37746 | 6.675 | 0.000 | |
| 10.198 | 43905 | 38471 | 0.876 | 0.006 | |
| 10.208 | 24771 | 38177 | 1.541 | 0.003 | |
| 10.218 | 19031 | 38113 | 2.003 | 0.002 | |
| 10.228 | 13353 | 38279 | 2.867 | 0.001 | |
| 10.237 | 21225 | 38826 | 1.829 | 0.003 | |
| 10.243 | 30946 | 38929 | 1.258 | 0.004 | |
| 10.266 | 43064 | 39733 | 0.923 | 0.006 | |
| 10.275 | 11912 | 39784 | 3.340 | 0.001 | |
| 10.278 | 19932 | 39886 | 2.001 | 0.002 | |
| 10.293 | 46366 | 40725 | 0.878 | 0.006 | |
| 10.318 | 46465 | 41024 | 0.883 | 0.006 | |
| 10.328 | 24720 | 41353 | 1.673 | 0.003 | |
| 10.334 | 10308 | 41278 | 4.005 | 0.001 | |
| 10.343 | 29100 | 41866 | 1.439 | 0.004 | |
| 10.354 | 22822 | 41695 | 1.827 | 0.003 | |
| 10.360 | 16568 | 41490 | 2.504 | 0.002 | |
| 10.376 | 31388 | 42321 | 1.348 | 0.004 | |
| 10.384 | 36478 | 43119 | 1.182 | 0.005 | |
| 10.393 | 21427 | 43144 | 2.014 | 0.003 | |
| 10.416 | 82339 | 44731 | 0.543 | 0.012 | |
| 10.434 | 23173 | 42257 | 1.824 | 0.003 | |
| 10.455 | 42801 | 43684 | 1.021 | 0.006 | |
| 10.459 | 19648 | 44004 | 2.240 | 0.002 | |
| 10.469 | 19632 | 43883 | 2.235 | 0.002 | |
| 10.492 | 56113 | 45807 | 0.816 | 0.008 | |
| 10.497 | 20626 | 45915 | 2.226 | 0.003 | |
| 10.503 | 27439 | 45837 | 1.671 | 0.004 | |
| 10.513 | 31833 | 45842 | 1.440 | 0.004 | |
| 10.523 | 6773 | 45190 | 6.672 | 0.001 | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|--------|--------|--------|---------|--------|-----------|
| 10.529 | 22697 | 45513 | 2.005 | 0.003 | |
| 10.543 | 39087 | 46432 | 1.188 | 0.005 | |
| 10.552 | 16284 | 46719 | 2.869 | 0.002 | |
| 10.558 | 18796 | 47158 | 2.509 | 0.002 | |
| 10.576 | 69878 | 48769 | 0.698 | 0.010 | |
| 10.586 | 12085 | 48384 | 4.004 | 0.001 | |
| 10.592 | 21757 | 48469 | 2.228 | 0.003 | |
| 10.609 | 46960 | 50482 | 1.075 | 0.006 | |
| 10.616 | 40486 | 50812 | 1.255 | 0.005 | 17 C34 |
| 10.628 | 52392 | 50284 | 0.960 | 0.007 | |
| 10.665 | 99744 | 52644 | 0.528 | 0.014 | |
| 10.680 | 20832 | 52264 | 2.509 | 0.003 | |
| 10.699 | 126137 | 55939 | 0.443 | 0.018 | |
| 10.723 | 18258 | 52316 | 2.865 | 0.002 | |
| 10.733 | 65550 | 52928 | 0.807 | 0.009 | |
| 10.751 | 49102 | 51903 | 1.057 | 0.007 | |
| 10.765 | 10288 | 51490 | 5.005 | 0.001 | |
| 10.777 | 73220 | 52877 | 0.722 | 0.010 | |
| 10.791 | 15621 | 52150 | 3.338 | 0.002 | |
| 10.799 | 46819 | 52190 | 1.115 | 0.006 | |
| 10.817 | 52000 | 52328 | 1.006 | 0.007 | |
| 10.828 | 13014 | 52167 | 4.008 | 0.001 | |
| 10.833 | 18275 | 52280 | 2.861 | 0.002 | |
| 10.838 | 67284 | 52271 | 0.777 | 0.009 | |
| 10.860 | 15395 | 51401 | 3.339 | 0.002 | |
| 10.867 | 15366 | 51252 | 3.335 | 0.002 | |
| 10.874 | 25712 | 51608 | 2.007 | 0.003 | |
| 10.885 | 59363 | 52064 | 0.877 | 0.008 | |
| 10.901 | 33199 | 51247 | 1.544 | 0.004 | |
| 10.911 | 35859 | 51446 | 1.435 | 0.005 | |
| 10.925 | 15150 | 50526 | 3.335 | 0.002 | |
| 10.936 | 27761 | 50508 | 1.819 | 0.004 | |
| 10.954 | 40634 | 51235 | 1.261 | 0.005 | |
| 10.958 | 17973 | 51428 | 2.861 | 0.002 | |
| 10.982 | 101216 | 54997 | 0.543 | 0.014 | |
| 10.999 | 80380 | 54264 | 0.675 | 0.011 | |
| 11.022 | 15822 | 52869 | 3.342 | 0.002 | |
| 11.029 | 23878 | 53171 | 2.227 | 0.003 | |
| 11.032 | 23908 | 53219 | 2.226 | 0.003 | |
| 11.044 | 39793 | 53228 | 1.338 | 0.005 | |
| 11.053 | 13218 | 52959 | 4.007 | 0.001 | 19 C36 |
| 11.057 | 26491 | 53088 | 2.004 | 0.003 | |
| 11.069 | 47933 | 53454 | 1.115 | 0.007 | |
| 11.079 | 78088 | 52997 | 0.679 | 0.011 | |
| 11.132 | 4853 | 48537 | 10.002 | 0.000 | |
| 11.138 | 21933 | 48845 | 2.227 | 0.003 | |
| 11.148 | 46678 | 49317 | 1.057 | 0.006 | |
| 11.158 | 12248 | 49060 | 4.006 | 0.001 | |
| 11.164 | 14711 | 49102 | 3.338 | 0.002 | |
| 11.179 | 64473 | 49939 | 0.775 | 0.009 | |
| 11.192 | 19751 | 49439 | 2.503 | 0.002 | |
| 11.197 | 14848 | 49541 | 3.337 | 0.002 | |
| 11.202 | 17336 | 49566 | 2.859 | 0.002 | |
| 11.206 | 12400 | 49639 | 4.003 | 0.001 | |
| 11.212 | 56808 | 49881 | 0.878 | 0.008 | |
| 11.230 | 26830 | 48794 | 1.819 | 0.003 | |
| 11.263 | 19014 | 47590 | 2.503 | 0.002 | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|--------|-------|--------|---------|--------|-----------|
| 11.267 | 11927 | 47790 | 4.007 | 0.001 | |
| 11.285 | 66432 | 50042 | 0.753 | 0.009 | |
| 11.308 | 17214 | 49235 | 2.860 | 0.002 | |
| 11.312 | 19684 | 49285 | 2.504 | 0.002 | |
| 11.322 | 19740 | 49570 | 2.511 | 0.002 | |
| 11.331 | 27467 | 50208 | 1.828 | 0.004 | |
| 11.334 | 12565 | 50301 | 4.003 | 0.001 | |
| 11.338 | 17617 | 50367 | 2.859 | 0.002 | |
| 11.356 | 50450 | 50688 | 1.005 | 0.007 | |
| 11.383 | 31641 | 48774 | 1.541 | 0.004 | |
| 11.392 | 14562 | 48589 | 3.337 | 0.002 | |
| 11.398 | 14566 | 48593 | 3.336 | 0.002 | |
| 11.405 | 21947 | 48858 | 2.226 | 0.003 | |
| 11.418 | 36961 | 49602 | 1.342 | 0.005 | |
| 11.428 | 52174 | 49838 | 0.955 | 0.007 | |
| 11.438 | 46900 | 49605 | 1.058 | 0.006 | |
| 11.456 | 66003 | 49218 | 0.746 | 0.009 | |
| 11.481 | 84312 | 48818 | 0.579 | 0.012 | |
| 11.518 | 39837 | 46996 | 1.180 | 0.005 | |
| 11.533 | 55836 | 46822 | 0.839 | 0.008 | 20 C38 |
| 11.560 | 30101 | 46465 | 1.544 | 0.004 | |
| 11.568 | 20916 | 46512 | 2.224 | 0.003 | |
| 11.573 | 11637 | 46596 | 4.004 | 0.001 | |
| 11.579 | 23274 | 46598 | 2.002 | 0.003 | |
| 11.586 | 13953 | 46531 | 3.335 | 0.002 | |
| 11.591 | 9318 | 46631 | 5.004 | 0.001 | |
| 11.623 | 97892 | 48831 | 0.499 | 0.014 | |
| 11.631 | 17107 | 48984 | 2.863 | 0.002 | |
| 11.638 | 22090 | 49260 | 2.230 | 0.003 | |
| 11.642 | 32050 | 49351 | 1.540 | 0.004 | |
| 11.669 | 95446 | 50981 | 0.534 | 0.014 | |
| 11.685 | 95822 | 49865 | 0.520 | 0.014 | |
| 11.788 | 8918 | 44609 | 5.002 | 0.001 | |
| 11.791 | 35704 | 44768 | 1.254 | 0.005 | |
| 11.804 | 11082 | 44350 | 4.002 | 0.001 | |
| 11.813 | 22172 | 44403 | 2.003 | 0.003 | |
| 11.823 | 19993 | 44543 | 2.228 | 0.002 | |
| 11.829 | 13395 | 44754 | 3.341 | 0.001 | |
| 11.837 | 20184 | 44981 | 2.228 | 0.002 | |
| 11.852 | 26933 | 44942 | 1.669 | 0.003 | |
| 11.866 | 36041 | 45224 | 1.255 | 0.005 | |
| 11.877 | 15835 | 45355 | 2.864 | 0.002 | |
| 11.883 | 18222 | 45726 | 2.509 | 0.002 | |
| 11.889 | 15985 | 45741 | 2.861 | 0.002 | |
| 11.896 | 20679 | 46117 | 2.230 | 0.003 | |
| 11.905 | 23259 | 46896 | 2.016 | 0.003 | |
| 11.929 | 70146 | 49826 | 0.710 | 0.010 | |
| 11.936 | 52288 | 50085 | 0.958 | 0.007 | |
| 11.951 | 14787 | 49369 | 3.339 | 0.002 | |
| 11.957 | 17313 | 49595 | 2.865 | 0.002 | |
| 11.961 | 32199 | 49647 | 1.542 | 0.004 | |
| 11.971 | 19578 | 49063 | 2.506 | 0.002 | |
| 11.980 | 34244 | 49065 | 1.433 | 0.005 | |
| 12.019 | 96987 | 51133 | 0.527 | 0.014 | |
| 12.025 | 48685 | 51499 | 1.058 | 0.007 | |
| 12.053 | 38386 | 51386 | 1.339 | 0.005 | |
| 12.062 | 38575 | 51549 | 1.336 | 0.005 | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|--------|--------|--------|---------|--------|-----------|
| 12.070 | 17923 | 51300 | 2.862 | 0.002 | |
| 12.078 | 45780 | 51141 | 1.117 | 0.006 | |
| 12.105 | 31495 | 48817 | 1.550 | 0.004 | |
| 12.118 | 85510 | 48295 | 0.565 | 0.012 | |
| 12.148 | 55474 | 46657 | 0.841 | 0.008 | 21 C40 |
| 12.172 | 34299 | 45899 | 1.338 | 0.005 | |
| 12.181 | 18286 | 45754 | 2.502 | 0.002 | |
| 12.188 | 20565 | 45727 | 2.223 | 0.003 | |
| 12.198 | 29701 | 45787 | 1.542 | 0.004 | |
| 12.212 | 11377 | 45530 | 4.002 | 0.001 | |
| 12.218 | 29576 | 45566 | 1.541 | 0.004 | |
| 12.237 | 41054 | 45750 | 1.114 | 0.006 | |
| 12.243 | 13695 | 45701 | 3.337 | 0.002 | |
| 12.253 | 27528 | 46122 | 1.675 | 0.004 | |
| 12.260 | 16149 | 46201 | 2.861 | 0.002 | |
| 12.272 | 32473 | 46571 | 1.434 | 0.004 | |
| 12.347 | 231342 | 54259 | 0.235 | 0.034 | |
| 12.355 | 96470 | 54322 | 0.563 | 0.014 | |
| 12.383 | 13155 | 52687 | 4.005 | 0.001 | |
| 12.389 | 52817 | 52930 | 1.002 | 0.007 | |
| 12.434 | 117936 | 55204 | 0.468 | 0.017 | |
| 12.440 | 19323 | 55283 | 2.861 | 0.002 | |
| 12.448 | 22049 | 55156 | 2.502 | 0.003 | |
| 12.460 | 127044 | 56114 | 0.442 | 0.018 | |
| 12.500 | 63536 | 55700 | 0.877 | 0.009 | |
| 12.519 | 44746 | 56237 | 1.257 | 0.006 | |
| 12.523 | 16928 | 56556 | 3.341 | 0.002 | |
| 12.528 | 14154 | 56666 | 4.003 | 0.002 | |
| 12.532 | 14154 | 56644 | 4.002 | 0.002 | |
| 12.538 | 25607 | 57089 | 2.229 | 0.003 | |
| 12.543 | 31284 | 57010 | 1.822 | 0.004 | |
| 12.560 | 76588 | 57084 | 0.745 | 0.011 | |
| 12.574 | 22463 | 56167 | 2.500 | 0.003 | |
| 12.583 | 192414 | 56305 | 0.293 | 0.028 | |
| 12.668 | 201456 | 54098 | 0.269 | 0.029 | |
| 12.722 | 63529 | 49368 | 0.777 | 0.009 | |
| 12.744 | 14574 | 48683 | 3.340 | 0.002 | |
| 12.757 | 68233 | 49046 | 0.719 | 0.010 | |
| 12.777 | 29106 | 48653 | 1.672 | 0.004 | |
| 12.802 | 69072 | 49884 | 0.722 | 0.010 | |
| 12.805 | 19947 | 49915 | 2.502 | 0.002 | |
| 12.813 | 12457 | 49907 | 4.006 | 0.001 | |
| 12.826 | 42860 | 50672 | 1.182 | 0.006 | |
| 12.830 | 15192 | 50711 | 3.338 | 0.002 | |
| 12.835 | 63121 | 50727 | 0.804 | 0.009 | |
| 12.856 | 30109 | 50299 | 1.671 | 0.004 | |
| 12.871 | 12459 | 49875 | 4.003 | 0.001 | |
| 12.876 | 24950 | 49913 | 2.001 | 0.003 | |
| 12.883 | 12458 | 49860 | 4.002 | 0.001 | |
| 12.892 | 24999 | 50091 | 2.004 | 0.003 | |
| 12.904 | 37682 | 50442 | 1.339 | 0.005 | |
| 12.918 | 60965 | 51059 | 0.838 | 0.009 | |
| 12.929 | 15268 | 50972 | 3.338 | 0.002 | |
| 12.950 | 101236 | 52476 | 0.518 | 0.014 | |
| 12.991 | 32619 | 50285 | 1.542 | 0.004 | |
| 13.030 | 23826 | 47690 | 2.002 | 0.003 | |
| 13.047 | 49429 | 47410 | 0.959 | 0.007 | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|--------|--------|--------|---------|--------|-----------|
| 13.072 | 11668 | 46709 | 4.003 | 0.001 | |
| 13.077 | 14056 | 46964 | 3.341 | 0.002 | |
| 13.083 | 21201 | 47214 | 2.227 | 0.003 | |
| 13.092 | 45034 | 47490 | 1.055 | 0.006 | |
| 13.103 | 33139 | 47401 | 1.430 | 0.004 | |
| 13.119 | 58622 | 47300 | 0.807 | 0.008 | |
| 13.136 | 61979 | 46406 | 0.749 | 0.009 | |
| 13.163 | 36232 | 45399 | 1.253 | 0.005 | |
| 13.172 | 13552 | 45219 | 3.337 | 0.002 | |
| 13.178 | 13550 | 45211 | 3.337 | 0.002 | |
| 13.183 | 13581 | 45318 | 3.337 | 0.002 | |
| 13.188 | 15867 | 45365 | 2.859 | 0.002 | |
| 13.193 | 11350 | 45433 | 4.003 | 0.001 | |
| 13.206 | 54879 | 45909 | 0.837 | 0.008 | |
| 13.233 | 74220 | 46899 | 0.632 | 0.010 | |
| 13.246 | 18724 | 46923 | 2.506 | 0.002 | |
| 13.250 | 14089 | 47028 | 3.338 | 0.002 | |
| 13.254 | 9392 | 46999 | 5.004 | 0.001 | |
| 13.261 | 35241 | 47103 | 1.337 | 0.005 | |
| 13.270 | 21093 | 46884 | 2.223 | 0.003 | |
| 13.278 | 16404 | 46889 | 2.858 | 0.002 | |
| 13.284 | 28108 | 46937 | 1.670 | 0.004 | |
| 13.309 | 27777 | 46575 | 1.677 | 0.004 | |
| 13.313 | 11643 | 46617 | 4.004 | 0.001 | |
| 13.323 | 30391 | 46938 | 1.544 | 0.004 | |
| 13.337 | 49696 | 47554 | 0.957 | 0.007 | |
| 13.345 | 11906 | 47686 | 4.005 | 0.001 | |
| 13.352 | 21499 | 47921 | 2.229 | 0.003 | |
| 13.358 | 14416 | 48133 | 3.339 | 0.002 | |
| 13.366 | 24163 | 48487 | 2.007 | 0.003 | |
| 13.391 | 108474 | 49842 | 0.459 | 0.016 | |
| 13.411 | 39818 | 49922 | 1.254 | 0.005 | |
| 13.421 | 140245 | 49882 | 0.356 | 0.020 | |
| 13.468 | 75433 | 46221 | 0.613 | 0.011 | |
| 13.519 | 59701 | 44435 | 0.744 | 0.008 | |
| 13.538 | 26345 | 44021 | 1.671 | 0.003 | |
| 13.553 | 17475 | 43727 | 2.502 | 0.002 | |
| 13.559 | 19699 | 43828 | 2.225 | 0.002 | |
| 13.566 | 15324 | 43832 | 2.860 | 0.002 | |
| 13.574 | 28519 | 43956 | 1.541 | 0.004 | |
| 13.585 | 21950 | 43943 | 2.002 | 0.003 | |
| 13.595 | 26497 | 44341 | 1.673 | 0.003 | |
| 13.603 | 22230 | 44574 | 2.005 | 0.003 | |
| 13.608 | 11135 | 44585 | 4.004 | 0.001 | |
| 13.633 | 100703 | 46371 | 0.460 | 0.014 | |
| 13.650 | 25255 | 45974 | 1.820 | 0.003 | |
| 13.663 | 20511 | 45675 | 2.227 | 0.003 | |
| 13.670 | 15945 | 45584 | 2.859 | 0.002 | |
| 13.677 | 40973 | 45642 | 1.114 | 0.006 | |
| 13.688 | 4544 | 45448 | 10.002 | 0.000 | |
| 13.693 | 29520 | 45508 | 1.542 | 0.004 | |
| 13.718 | 24720 | 44995 | 1.820 | 0.003 | |
| 13.727 | 11216 | 44890 | 4.002 | 0.001 | |
| 13.735 | 29185 | 45025 | 1.543 | 0.004 | |
| 13.752 | 17874 | 44782 | 2.505 | 0.002 | |
| 13.767 | 35874 | 45020 | 1.255 | 0.005 | |
| 13.775 | 36036 | 45104 | 1.252 | 0.005 | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|--------------------|--------------------|------------------|---------|--------|----------------|
| 13.785 | 11226 | 44939 | 4.003 | 0.001 | |
| 13.790 | 47016 | 44953 | 0.956 | 0.006 | |
| 13.813 | 11118 | 44516 | 4.004 | 0.001 | |
| 13.818 | 37641 | 44507 | 1.182 | 0.005 | |
| 13.832 | 15424 | 44192 | 2.865 | 0.002 | |
| 13.838 | 17564 | 43967 | 2.503 | 0.002 | |
| 13.844 | 26339 | 43892 | 1.666 | 0.003 | |
| 13.855 | 30567 | 43821 | 1.434 | 0.004 | |
| 13.865 | 23854 | 43526 | 1.825 | 0.003 | |
| 13.882 | 28266 | 43639 | 1.544 | 0.004 | |
| 13.886 | 30418 | 43629 | 1.434 | 0.004 | |
| 13.901 | 34702 | 43472 | 1.253 | 0.005 | |
| 13.920 | 48162 | 44005 | 0.914 | 0.007 | |
| 13.928 | 17577 | 43956 | 2.501 | 0.002 | |
| 13.941 | 15410 | 44084 | 2.861 | 0.002 | |
| 13.946 | 11045 | 44251 | 4.006 | 0.001 | |
| 13.949 | 24369 | 44341 | 1.820 | 0.003 | |
| 13.959 | 22103 | 44264 | 2.003 | 0.003 | |
| 13.967 | 22088 | 44195 | 2.001 | 0.003 | |
| 13.976 | 33207 | 44336 | 1.335 | 0.004 | 18 Filter Peak |
| 13.998 | 24195 | 44018 | 1.819 | 0.003 | |
| 14.007 | 15335 | 43888 | 2.862 | 0.002 | |
| 14.014 | 17519 | 43863 | 2.504 | 0.002 | |
| 14.019 | 54335 | 43870 | 0.807 | 0.008 | |
| 14.046 | 10722 | 42915 | 4.003 | 0.001 | |
| 14.052 | 19305 | 42955 | 2.225 | 0.002 | |
| 14.058 | 8568 | 42864 | 5.003 | 0.001 | |
| 14.067 | 38739 | 43159 | 1.114 | 0.005 | |
| 14.077 | 15012 | 42931 | 2.860 | 0.002 | |
| 14.083 | 25753 | 42977 | 1.669 | 0.003 | |
| 14.102 | 25682 | 42913 | 1.671 | 0.003 | |
| 14.108 | 19267 | 42865 | 2.225 | 0.002 | |
| 14.116 | 12834 | 42815 | 3.336 | 0.001 | |
| 14.126 | 25874 | 43369 | 1.676 | 0.003 | |
| 14.133 | 56339 | 43595 | 0.774 | 0.008 | |
| 14.161 | 32503 | 43582 | 1.341 | 0.004 | |
| 14.165 | 10909 | 43696 | 4.006 | 0.001 | |
| 14.170 | 15313 | 43822 | 2.862 | 0.002 | |
| 14.175 | 10960 | 43911 | 4.007 | 0.001 | |
| 14.178 | 13176 | 43945 | 3.335 | 0.001 | |
| 14.183 | 19785 | 43976 | 2.223 | 0.002 | |
| 14.191 | 8796 | 44018 | 5.005 | 0.001 | |
| 14.197 | 17636 | 44177 | 2.505 | 0.002 | |
| 14.208 | 28815 | 44459 | 1.543 | 0.004 | |
| 14.219 | 8873 | 44379 | 5.002 | 0.001 | |
| 14.223 | 13318 | 44445 | 3.337 | 0.001 | |
| 14.229 | 28860 | 44456 | 1.540 | 0.004 | |
| 14.247 | 15436 | 44194 | 2.863 | 0.002 | |
| 14.260 | 37147 | 43758 | 1.178 | 0.005 | |
| 14.274 | 45685 | 43705 | 0.957 | 0.006 | |
| ===== 677340272 | ===== 268782821 | ===== 100.000 | | | |

Total unknown % area = 25.478

Certificate of Composition - Analytical Standard

BASE STOCK

Product no.: 22523051
Lot no.: LRAC9813
Expiry Date: May 2023
Manufacturing Date: May 2021
Storage: Refrigerate
Solvent/Matrix: Dichloromethane
Certificate version: LRAC9813.01 (Note: Certificates may be updated due to the availability of new data. Check our website at: www.sigma-aldrich.com for the most current version.)

J005199

SVOA-ABN BASE STOCK-200-800ug/ml
 Expires 5/31/2023
 Prepared By Jiangqing Zhou 5/18/2021

| Analyte | Assigned Value | Units | Raw Material Purity, % | Raw Material Lot |
|---|----------------|-------|------------------------|------------------|
| 3,3'-DICHLOROBENZIDINE CAS# 91-94-1 | 802 | µg/mL | 99.9 | LC27068 |
| 2,4-DINITROTOLUENE CAS# 121-14-2 | 802 | µg/mL | 97.8 | LB46632 |
| 2,6-DINITROTOLUENE CAS# 606-20-2 | 801 | µg/mL | 99.9 | LB79891 |
| HEXACHLOROCYCLOPENTADIENE CAS# 77-47-4 | 802 | µg/mL | 96.0 | LB95525 |
| N-NITROSODIMETHYLAMINE CAS# 62-75-9 | 801 | µg/mL | 95.0 | 2019-030598 5 |
| PERYLENE CAS# 198-55-0 | 201 | µg/mL | 99.6 | 04101PG |
| ANILINE CAS# 62-53-3 | 803 | µg/mL | 100.0 | 10126MG |
| 4-CHLOROANILINE CAS# 106-47-8 | 803 | µg/mL | 100.0 | MKBZ6909V |
| 2-NITROANILINE CAS# 88-74-4 | 802 | µg/mL | 99.9 | LC05068 |
| 3-NITROANILINE CAS# 99-09-2 | 802 | µg/mL | 99.9 | LC09264 |
| 4-NITROANILINE CAS# 100-01-6 | 802 | µg/mL | 99.9 | LC11400 |
| PYRIDINE (LOW WATER) CAS# 110-86-1 | 802 | µg/mL | 100.0 | SHBJ9218 |

Measurement method: Where applicable, the assigned value is based on a purity determination by mass balance and gravimetrically prepared value.

Intended use: Intended for R&D and Analytical Use only. Not for drug, household or other uses.

Packaging: 1 mL in amber ampule

Instructions for handling and correct use: Use on the as is basis. The internal pressure of the container may be slightly different from the atmospheric pressure at the user's location. Open slowly and carefully to avoid dispersion of the material.



Health and safety information:

All chemical reference materials should be considered potentially hazardous and should be used only by qualified laboratory personnel. Please refer to the Safety Data Sheet for detailed information about the nature of any hazard and appropriate precautions to be taken.

Certificate issue date:

12-May-2021



Andy Ommen - QC Manager



Mark Pooler - QA Supervisor

Certificate of analysis revision history:

| Certificate version | Date | Reason for version |
|---------------------|-------------|-----------------------|
| LRAC9813.01 | 12-May-2021 | Original Release Date |

Disclaimer: The purchaser is required to determine the suitability of this product for any particular application. Sigma-Aldrich RTC makes no warranty of any kind, express or implied, other than its products meet all quality control standards set by Sigma-Aldrich RTC. We do not guarantee that the product can be used for any particular application.

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Certificate of Composition - Analytical Standard

ACID STOCK

Product no.: 22523046
Lot no.: LRAC9812
Expiry Date: May 2023
Manufacturing Date: May 2021
Storage: Refrigerate
Solvent/Matrix: Dichloromethane
Certificate version: LRAC9812.01 (Note: Certificates may be updated due to the availability of new data. Check our website at: www.sigma-aldrich.com for the most current version.)

J005200
 SVOA-ABN ACID STOCK-200-800ug/ml
 Solvent / Lot: DCM
 Prep: 5/18/2021 by JZ
 Exp: 5/31/2023
 Location:



| Analyte | Assigned Value | Units | Raw Material Purity, % | Raw Material Lot |
|---|----------------|-------|------------------------|------------------|
| 2,4-DIMETHYLPHENOL CAS# 105-67-9 | 802 | µg/mL | 99.9 | LB88935 |
| 2,4-DICHLOROPHENOL CAS# 120-83-2 | 802 | µg/mL | 100.0 | BCBZ6787 |
| 2,4,5-TRICHLOROPHENOL CAS# 95-95-4 | 802 | µg/mL | 99.9 | JS00008 |
| 2,4-DINITROPHENOL CAS# 51-28-5 | 1806 | µg/mL | 75.9 | MKBP5833V |
| 2,4,6-TRICHLOROPHENOL CAS# 88-06-2 | 803 | µg/mL | 98.7 | LB82983 |
| 4-CHLORO-3-METHYLPHENOL CAS# 59-50-7 | 801 | µg/mL | 99.9 | JS00013 |
| 4-NITROPHENOL CAS# 100-02-7 | 801 | µg/mL | 99.9 | LC10889 |
| 2-METHYL-4,6-DINITROPHENOL CAS# 534-52-1 | 1804 | µg/mL | 99.7 | LC18338 |
| PENTACHLOROPHENOL CAS# 87-86-5 | 803 | µg/mL | 98.7 | MKCK8156 |
| BENZOIC ACID CAS# 65-85-0 | 1805 | µg/mL | 99.9 | LC16514 |

Measurement method: Where applicable, the assigned value is based on a purity determination by mass balance and gravimetrically prepared value.

Intended use: Intended for R&D and Analytical Use only. Not for drug, household or other uses.

Packaging: 1 mL in amber ampule

Instructions for handling and correct use: Use on the as is basis. The internal pressure of the container may be slightly different from the atmospheric pressure at the user's location. Open slowly and carefully to avoid dispersion of the material.

Health and safety information: All chemical reference materials should be considered potentially hazardous and should be used only by qualified laboratory personnel. Please refer to the Safety Data Sheet for detailed information about the nature of any hazard and appropriate precautions to be taken.



Certificate of Analysis

J008074

 SVOA PAH STD 2000ug/ml
 Expires 6/30/2023
 Prepared By Joshua Rains 8/5/2021

Product Name: PAH Standard

Product Number: US-106N-1

Lot Issue Date: 11-Jun-2020

Lot Number: 0006540449

Expiration Date: 30-Jun-2023

Description:

This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system, and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

| Analyte | CAS# | Analyte Lot | Concentration ± Uncertainty |
|------------------------|-------------|-------------|-----------------------------|
| acenaphthene | 000083-32-9 | RM10879 | 2008 ± 10 µg/mL |
| acenaphthylene | 000208-96-8 | RM10891 | 2003 ± 10 µg/mL |
| anthracene | 000120-12-7 | RM14212 | 2006 ± 10 µg/mL |
| benz[a]anthracene | 000056-55-3 | RM16072 | 2006 ± 10 µg/mL |
| benzo[b]fluoranthene | 000205-99-2 | RM14571 | 2005 ± 10 µg/mL |
| benzo[k]fluoranthene | 000207-08-9 | RM14321 | 2009 ± 10 µg/mL |
| benzo[ghi]perylene | 000191-24-2 | RM15761 | 2008 ± 10 µg/mL |
| benzo[a]pyrene | 000050-32-8 | RM12669 | 2009 ± 10 µg/mL |
| chrysene | 000218-01-9 | RM12260 | 2009 ± 10 µg/mL |
| dibenz[a,h]anthracene | 000053-70-3 | RM06786 | 2009 ± 10 µg/mL |
| fluoranthene | 000206-44-0 | RM12277 | 2004 ± 10 µg/mL |
| fluorene | 000086-73-7 | RM09441 | 2009 ± 10 µg/mL |
| indeno[1,2,3-cd]pyrene | 000193-39-5 | RM14192 | 2009 ± 10 µg/mL |
| naphthalene | 000091-20-3 | NT00970 | 2008 ± 10 µg/mL |
| phenanthrene | 000085-01-8 | RM10495 | 2009 ± 10 µg/mL |
| pyrene | 000129-00-0 | RM03479 | 2008 ± 10 µg/mL |

Matrix: methylene chloride/benzene (1:1)

 ISO 17034 Cert No.
 AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026

Page: 1 of 2

www.agilent.com/quality/

 ISO 17025 Cert
 No. AT-1937

Certificate of Analysis

Product Number: US-106N-1

Lot Number: 0006540449

Storage Conditions: Store at Room Temperature (15° to 30°C).

Traceability:

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:

This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Intended Use:

This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Instructions for Use:

Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Hazards:

Refer to the Safety Data Sheet on www.agilent.com for information regarding this RM.

Expiration of Certification:

The certification of this RM is valid until the expiration date specified above, provided the RM is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the RM is damaged, contaminated, or otherwise modified.

Maintenance of Certification:

If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:



Monica Bourgeois
QMS Representative



ISO 17034 Cert No.
AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026

Page: 2 of 2

www.agilent.com/quality/



ISO 17025 Cert
No. AT-1937

Certificate of Analysis

Produced by Phenova

6390 Joyce Drive STE 100, Golden, CO 80403 USA ■ Tel: 303-940-0033 ■ Fax: 303-940-0043 ■ info@phenova.com
Access your Safety Data Sheets and digital Certificates at www.phenova.com/documents.

Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101244

Lot Number: CL16062

Description: Benzidines Standard

Certification Date: November 19, 2020

Storage: 4 °C

Expiration Date: November 30, 2030

Provided As: 1 mL in 2 mL Ampoule in Methylene Chloride



Andrea Gill, Certified Reference Materials Manager

| Component | CAS # | Certified Value µg/mL | Expanded Uncertainty |
|------------------------|---------|--------------------------|----------------------|
| Benzidine | 92-87-5 | 2000 | ± 2.740% |
| 3,3'-Dichlorobenzidine | 91-94-1 | 2000 | ± 3.229% |

J008310

Benzidines std @2000ug/ml

Expires 11/30/2030

Prepared By Van Spohn 8/12/2021

Certificate of Analysis

Produced by Phenova

6390 Joyce Drive STE 100, Golden, CO 80403 USA ■ Tel: 303-940-0033 ■ Fax: 303-940-0043 ■ info@phenova.com

Access your Safety Data Sheets and digital Certificates at www.phenova.com/documents.

1. Quality Document: This Certificate of Analysis has been created in accordance with ISO Guide 31¹ and ISO Guide 35.²
2. Quality Standards: Phenova is accredited by A2LA to ISO 17034³ and ISO/IEC 17025⁴ as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.
3. Intended Use: The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.
4. Handling and Usage Notes: Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.
5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.
6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.
7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.
8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.
9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98⁵ and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.
11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.
12. Period of Validity: The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

¹ ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.

² ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.

³ ISO 17034 – General Requirements for the Competence of Reference Material Producers.

⁴ ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.

⁵ ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)



Reference Material Producer
Certificate No. 2427.02



Phenova is an accredited ISO/IEC 17034 Reference Material
Producer and ISO/IEC 17025 accredited Chemical Testing Laboratory.



Chemical Testing Laboratory
Certificate No. 2427.03

Certificate of Analysis

Produced by Phenova

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Access your Safety Data Sheets and digital Certificates at www.phenova.com/documents.

Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101246

Lot Number: CL16693

Description: Benzoic Acid

Certification Date: May 6, 2021

Storage: 4 °C

Expiration Date: April 30, 2031

Provided As: 1 mL in 2 mL Ampoule in Methylene Chloride

Andrea Gill

Andrea Gill, Certified Reference Materials Manager

| Component | CAS # | Certified Value µg/mL | Expanded Uncertainty |
|--------------|---------|--------------------------|----------------------|
| Benzoic acid | 65-85-0 | 2000 | ± 4.383% |

K3238



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Certificate of Analysis



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1. **Quality Document:** This Certificate of Analysis has been created in accordance with ISO Guide 31¹ and ISO Guide 35.²
2. **Quality Standards:** Phenova is accredited by A2LA to ISO 17034³ and ISO/IEC 17025⁴ as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.
3. **Intended Use:** The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.
4. **Handling and Usage Notes:** Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.
5. **Hazardous Situation:** The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.
6. **Level of Homogeneity:** The product has been certified to guarantee the certified values and their uncertainties at a volume of 25 µL.
7. **Certified Value:** Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.
8. **Raw Materials and Purity:** Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.
9. **Expanded Uncertainty:** The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98⁵ and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).
$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.
10. **Metrological Traceability:** The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.
11. **Values Obtained During Product Testing:** This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.
12. **Period of Validity:** The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

- ¹ ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.
- ² ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
- ³ ISO 17034 – General Requirements for the Competence of Reference Material Producers.
- ⁴ ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
- ⁵ ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)



Reference Material Producer
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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101443

Lot Number: CL17696

Description: Aniline

Certification Date: December 14, 2021

Storage: 4 °C

Expiration Date: December 31, 2029

Provided As: 1 mL in 2 mL Ampoule in Methylene Chloride

Andrea Gill

Andrea Gill, Certified Reference Materials Manager

| Component | CAS # | Certified Value µg/mL | Expanded Uncertainty |
|-----------|---------|--------------------------|----------------------|
| Aniline | 62-53-3 | 1000 | ± 0.760% |

K 3239



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3. **Intended Use:** The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.
4. **Handling and Usage Notes:** Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.
5. **Hazardous Situation:** The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.
6. **Level of Homogeneity:** The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.
7. **Certified Value:** Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.
8. **Raw Materials and Purity:** Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.
9. **Expanded Uncertainty:** The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98⁵ and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$u_{CRM} = k \sqrt{u_M^2 + u_H^2 + u_{LTS}^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. **Metrological Traceability:** The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.
11. **Values Obtained During Product Testing:** This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.
12. **Period of Validity:** The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

- ¹ ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.
- ² ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
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- ⁴ ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
- ⁵ ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)



Reference Material Producer
Certificate No. 2427.02



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Chemical Testing Laboratory
Certificate No. 2427.03

Certificate of Analysis

BNAs - Sandy Loam 1

*Certified
Reference
Material*

Description

Product ID CRM143-50G
Lot LRAC8918
Expiration Date January 2024
Manufacturing Date January 2021
Storage Conditions Refrigerate
Solvent/Matrix SOIL

Certified Values

| Analyte | Units | Certified ^{1,4} Value |
|--|-------|-----------------------------------|
| 1,2,4-Trichlorobenzene | µg/Kg | 1477 ± 181 |
| 1,3-Dichlorobenzene (m-Dichlorobenzene) | µg/Kg | 1625 ± 292 |
| 1-Chloronaphthalene | µg/Kg | 2809 ± 84 |
| 2,3-Dimethylphenol | µg/Kg | 4552 ± 137 |
| 2,4,5-Trichlorophenol | µg/Kg | 3438 ± 245 |
| 2,4,6-Trichlorophenol | µg/Kg | 2194 ± 251 |
| 2,4-Dichlorophenol | µg/Kg | 6991 ± 394 |
| 2,4-Dimethylphenol | µg/Kg | 6357 ± 879 |
| 2,4-Dinitrophenol | µg/Kg | 2922 ± 523 |
| 2,4-Dinitrotoluene (2,4-DNT) | µg/Kg | 3318 ± 442 |
| 2,6-Dichlorophenol | µg/Kg | 4578 ± 874 |
| 2,6-Dimethylphenol | µg/Kg | 7582 ± 228 |
| 2-Chloronaphthalene | µg/Kg | 2223 ± 168 |
| 2-Chlorophenol | µg/Kg | 1678 ± 202 |
| 2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol) | µg/Kg | 5148 ± 685 |
| 2-Methylphenol (o-Cresol) | µg/Kg | 6004 ± 573 |
| 2-Nitrophenol | µg/Kg | 6456 ± 383 |
| 3,4-Dimethylphenol | µg/Kg | 7185 ± 216 |
| 3+4-Methylphenol (m+p-Cresol) | µg/Kg | 8033 ± 1613 |
| 4-Bromophenyl phenyl ether (BDE-3) | µg/Kg | 7169 ± 310 |
| 4-Chloro-3-methylphenol | µg/Kg | 2071 ± 110 |
| 4-Chlorophenyl phenylether | µg/Kg | 2052 ± 113 |
| 4-Methylphenol (p-Cresol) | µg/Kg | 6617 ± 1371 |
| 4-Nitrophenol | µg/Kg | 6812 ± 595 |
| Acenaphthene | µg/Kg | 5489 ± 380 |



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Description

Lot **LRAC8918**
Expiration Date January 2024
Manufacturing Date January 2021
Storage Conditions Refrigerate
Solvent/Matrix SOIL

| | | |
|--|-------|------------|
| Acenaphthylene | µg/Kg | 1948 ± 240 |
| Anthracene | µg/Kg | 2866 ± 237 |
| Benzo(a)anthracene | µg/Kg | 5751 ± 552 |
| Benzo(a)pyrene | µg/Kg | 5902 ± 612 |
| Benzo(b)fluoranthene | µg/Kg | 3010 ± 409 |
| Benzo(b+k)fluoranthene | µg/Kg | 6534 ± 196 |
| Benzo(g,h,i)perylene | µg/Kg | 1380 ± 136 |
| Benzo(k)fluoranthene | µg/Kg | 2215 ± 237 |
| Butyl benzyl phthalate | µg/Kg | 3511 ± 384 |
| Carbazole | µg/Kg | 5412 ± 407 |
| Chrysene | µg/Kg | 1477 ± 72 |
| Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP) | µg/Kg | 2905 ± 321 |
| Dibenzo(a,h)anthracene | µg/Kg | 3420 ± 302 |
| Dibenzofuran | µg/Kg | 6130 ± 253 |
| Dimethyl phthalate | µg/Kg | 4537 ± 250 |
| Di-n-butyl phthalate | µg/Kg | 1721 ± 154 |
| Di-n-octyl phthalate | µg/Kg | 2744 ± 288 |
| Fluoranthene | µg/Kg | 2497 ± 222 |
| Fluorene | µg/Kg | 3724 ± 222 |
| Hexachlorobutadiene | µg/Kg | 1877 ± 245 |
| Indeno(1,2,3-cd) pyrene | µg/Kg | 3914 ± 409 |
| Isophorone | µg/Kg | 1615 ± 170 |
| Naphthalene | µg/Kg | 4458 ± 480 |
| Nitrobenzene | µg/Kg | 3539 ± 266 |
| n-Nitrosodimethylamine | µg/Kg | 1580 ± 402 |
| n-Nitrosodiphenylamine | µg/Kg | 2854 ± 379 |
| Pentachlorophenol | µg/Kg | 3411 ± 358 |
| Phenanthrene | µg/Kg | 5052 ± 385 |
| Phenol | µg/Kg | 2660 ± 184 |
| Pyrene | µg/Kg | 2964 ± 256 |
| Pyridine | µg/Kg | 1008 ± 30 |

Informational Values



Certificate of Analysis

BNAs - Sandy Loam 1

*Certified
Reference
Material*

Description

Product ID CRM143-50G
Lot LRAC8918
Expiration Date January 2024
Manufacturing Date January 2021
Storage Conditions Refrigerate
Solvent/Matrix SOIL

| <i>Analyte</i> | <i>Units</i> | <i>Suggested Acceptance Windows</i> | <i>Standard Deviation</i> |
|--|--------------|---|-------------------------------|
| 1,2,4-Trichlorobenzene | µg/Kg | 148 to 2853 | 459 |
| 1,3-Dichlorobenzene (m-Dichlorobenzene) | µg/Kg | 163 to 3440 | 605 |
| 1-Chloronaphthalene | µg/Kg | 1123 to 4494 | 562 |
| 2,3-Dimethylphenol | µg/Kg | 1821 to 7284 | 910 |
| 2,4,5-Trichlorophenol | µg/Kg | 1003 to 5872 | 811 |
| 2,4,6-Trichlorophenol | µg/Kg | 640 to 3748 | 518 |
| 2,4-Dichlorophenol | µg/Kg | 2391 to 11591 | 1533 |
| 2,4-Dimethylphenol | µg/Kg | 0.00 to 13959 | 2534 |
| 2,4-Dinitrophenol | µg/Kg | 1169 to 4675 | 584 |
| 2,4-Dinitrotoluene (2,4-DNT) | µg/Kg | 1248 to 5388 | 690 |
| 2,6-Dichlorophenol | µg/Kg | 1831 to 7324 | 916 |
| 2,6-Dimethylphenol | µg/Kg | 3033 to 12132 | 1516 |
| 2-Chloronaphthalene | µg/Kg | 748 to 3699 | 492 |
| 2-Chlorophenol | µg/Kg | 415 to 2942 | 421 |
| 2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol) | µg/Kg | 0.00 to 10347 | 1733 |
| 2-Methylphenol (o-Cresol) | µg/Kg | 1306 to 10702 | 1566 |
| 2-Nitrophenol | µg/Kg | 1534 to 11379 | 1641 |
| 3,4-Dimethylphenol | µg/Kg | 2874 to 11495 | 1437 |
| 3+4-Methylphenol (m+p-Cresol) | µg/Kg | 4054 to 16218 | 2027 |
| 4-Bromophenyl phenyl ether (BDE-3) | µg/Kg | 2901 to 11437 | 1423 |
| 4-Chloro-3-methylphenol | µg/Kg | 677 to 3464 | 464 |
| 4-Chlorophenyl phenylether | µg/Kg | 756 to 3348 | 432 |
| 4-Methylphenol (p-Cresol) | µg/Kg | 2647 to 10587 | 1323 |
| 4-Nitrophenol | µg/Kg | 681 to 14762 | 2650 |
| Acenaphthene | µg/Kg | 2243 to 8736 | 1082 |
| Acenaphthylene | µg/Kg | 712 to 3183 | 412 |
| Anthracene | µg/Kg | 1218 to 4515 | 550 |
| Benzo(a)anthracene | µg/Kg | 2806 to 8696 | 982 |
| Benzo(a)pyrene | µg/Kg | 2512 to 9292 | 1130 |
| Benzo(b)fluoranthene | µg/Kg | 1197 to 4822 | 604 |
| Benzo(b+k)fluoranthene | µg/Kg | 2614 to 10454 | 1307 |



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Description

Lot **LRAC8918**

Expiration Date January 2024

Manufacturing Date January 2021

Storage Conditions Refrigerate

Solvent/Matrix SOIL

| | | | |
|---|-------|--------------|------|
| Benzo(g,h,i)perylene | µg/Kg | 489 to 2271 | 297 |
| Benzo(k)fluoranthene | µg/Kg | 892 to 3537 | 441 |
| Butyl benzyl phthalate | µg/Kg | 1255 to 5766 | 752 |
| Carbazole | µg/Kg | 2032 to 8792 | 1127 |
| Chrysene | µg/Kg | 669 to 2284 | 269 |
| Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP) | µg/Kg | 765 to 5045 | 713 |
| Dibenzo(a,h)anthracene | µg/Kg | 1257 to 5583 | 721 |
| Dibenzofuran | µg/Kg | 2766 to 9493 | 1121 |
| Dimethyl phthalate | µg/Kg | 1842 to 7231 | 898 |
| Di-n-butyl phthalate | µg/Kg | 495 to 2947 | 409 |
| Di-n-octyl phthalate | µg/Kg | 690 to 4798 | 685 |
| Fluoranthene | µg/Kg | 984 to 4009 | 504 |
| Fluorene | µg/Kg | 1638 to 5810 | 695 |
| Hexachlorobutadiene | µg/Kg | 425 to 3329 | 484 |
| Indeno(1,2,3-cd) pyrene | µg/Kg | 870 to 6957 | 1015 |
| Isophorone | µg/Kg | 437 to 2792 | 392 |
| Naphthalene | µg/Kg | 1131 to 7784 | 1109 |
| Nitrobenzene | µg/Kg | 1024 to 6054 | 838 |
| n-Nitrosodimethylamine | µg/Kg | 632 to 2528 | 316 |
| n-Nitrosodiphenylamine | µg/Kg | 1142 to 4567 | 571 |
| Pentachlorophenol | µg/Kg | 341 to 7037 | 1209 |
| Phenanthrene | µg/Kg | 2307 to 7798 | 915 |
| Phenol | µg/Kg | 681 to 4639 | 660 |
| Pyrene | µg/Kg | 1118 to 4810 | 615 |
| Pyridine | µg/Kg | 403 to 1613 | 202 |

Additional Information:

DESCRIPTION

The organic sample is a soil containing extractable BNAs for analysis by 8100, 8270, 8310 or equivalent methods.

This product consist of a 5 vials each containing 10g of soil for analysis of PAHs. Each vial is identical and has been tested how homogeneity. Only one vial is need for test the remaining vials are to be used for multiple methods or routine testing.

The soil has been sterilized to minimize degradation of the sample.

The sample has been sized to 100 mesh.

Required storage condition is 4°C.

The sample has been intentionally prepared with an apparent headspace.

STORAGE

The sample should be stored at 4°C. It has been determined to be stable for the duration of the expiration date.

After sub-sampling replace cap securely and store remaining sample at 4°C.

The shelf life of the product was determined by historic stability of similar CRM's. The expiration date may be extended based on stock and popularity upon successful stability testing by a 17025 accredited laboratory.



Certificate of Analysis

BNAs - Sandy Loam 1

*Certified
Reference
Material*

Description

Product ID CRM143-50G
Lot LRAC8918
Expiration Date January 2024
Manufacturing Date January 2021
Storage Conditions Refrigerate
Solvent/Matrix SOIL

Stability and shelf life after opening must be determined by the user, taking into account sampling frequency/volume and all local conditions.

SAMPLE PREPARATION

Extract the complete contents of a single vial. Transfer entire contents of one vial to extraction vessel. Rinse vial and cap with extraction solvent.

Assume a 10g sample size for all calculations.

Note: Sample extracts and calibration solutions should be in the same solvent.

Report all results on a wet weight basis, do not correct for moisture.

NOTE: For method 8100 and using a packed column gas chromatographic method or cannot adequately resolve the following may coelute in four pairs of compounds: anthracene and phenanthrene; chrysene and benzo(a)anthracene; benzo(b)fluoranthene and benzo(k)fluoranthene; and dibenzo(a,h)anthracene and indeno(1,2,3-cd)pyrene.

SCOPE AND APPLICATION

The BNAs in Soil Certified Reference Material (CRM) consists of 5 10mL VOA vials, with a Teflon lined closures containing approximately 10 grams of soil, fortified with BNAs. Being a natural matrix waste sample the analyst is challenged by the same preparation problems, analytical interferences, etc. as is typical for similar matrices received by the laboratory for analysis.



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Description

Lot **LRAC8918**
Expiration Date January 2024
Manufacturing Date January 2021
Storage Conditions Refrigerate
Solvent/Matrix SOIL

1 Metrological traceability: Traceable to the SI and higher order standards from NIST through an unbroken chain of comparisons. The balance used to weigh raw materials is accurate to +/-0.0001 g and calibrated regularly using mass standards traceable to NIST. All dilutions were performed gravimetrically. Additionally, individual analytes are traceable to NIST SRMs where available and specified above.
4 Ucrm - Uncertainty values in this document are expressed as Expanded Uncertainty (Ucrm) corresponding to the 95% confidence interval. Ucrm is derived from the combined standard uncertainty multiplied by the coverage factor k, which is obtained from a t-distribution and degrees of freedom. K=2 unless specified. The components of combined standard uncertainty include the uncertainties due to characterization, homogeneity, long term stability, and short term stability (transport). The components due to stability are generally considered to be negligible unless otherwise indicated by stability studies. The mathematical representation of the Ucrm calculation is as follows:

$$u_{CRM} = \sqrt{u_{char}^2 + u_{homogeneity}^2 + u_{stability}^2}$$

k: Coverage factor derived from a t-distribution table, based on the degrees of freedom of the data set. Assume 2.0 for a **Confidence interval = 95%**

6 Analytical Value- For QC verification of the certified value only- not to be used in calculations. Represents the analytical data obtained by comparison to a standard as analyzed by the method described in the CoA or another acceptable method. The result may differ from the certified value and UCRM based on method uncertainty as well as the uncertainty associated with the standard used for comparison.

Traceability: The standard was manufactured under an ISO/IEC 17025:2017 certified quality system. The balance used to weigh raw materials is accurate to +/- 0.0001g and calibrated regularly using mass standards traceable to NIST. All dilutions were performed gravimetrically. Additionally, individual analytes are traceable to NIST SRMs where available and specified above.

Homogeneity: Homogeneity was assessed in accordance with ISO 17034:2016. Completed units were sampled using a random stratified sampling protocol. The results of chemical analysis were then compared using a one-way analysis of variance approach as described by TNI EL-V3-2009 Appendix A.2. See Instructions for minimum sub-sample size.

Expiration is at end of month given on certificate and label.

MSDS reports for components comprising greater than 1.0% of the solution or 0.1% for components known to be carcinogens are available upon request.

THIS PRODUCT WAS DESIGNED, PRODUCED AND VERIFIED FOR ACCURACY AND STABILITY IN ACCORDANCE WITH ISO/IEC 17025:2017 (ANAB Cert AT-1467) and ISO 17034:2016 (ANAB Cert AR-1470).



Andy Ommen - QC Manager



Mark Pooler - QA Supervisor

Certification Date January 05, 2021
Version 0-152021



Certificate of Analysis



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Certified Reference Material

This product is included in Phenova's ISO/IEC 17025 and ISO Guide 34 Scopes of Accreditation

Catalog No.: AL0-101291

Lot Number: CL11000

Description: GC/MS Tuning Mix

Certification Date: May 9, 2014

Storage: 4 °C

Expiration Date: December 31, 2023

Provided As: 1 mL in 2 mL Ampoule in Methylene chloride

Revision Date: August 5, 2015

Andrea Gill, Certified Reference Materials Manager

| Component | CAS # | Certified Value µg/mL | Expanded Uncertainty (%) |
|--------------------------------------|-----------|--------------------------|-----------------------------|
| Benzidine | 92-87-5 | 1000 | ± 0.208% |
| Decafluorotriphenylphosphine (DFTPP) | 5074-71-5 | 1000 | ± 0.057% |
| 4,4'-DDT | 50-29-3 | 1000 | ± 0.056% |
| Pentachlorophenol | 87-86-5 | 1000 | ± 0.061% |

K003891

GC/MS Tune solution-1000ug/ml

Solvent / Lot: CL11000

Prep: 4/22/2022 by VS

Exp: 12/31/2023

Location:



Reference Material Producer
Certificate No. 2427.02



Manufactured by Phenova, Inc.

Phenova's testing and calibration results are internationally recognized through the ILAC-MRA. Phenova is an accredited ISO Guide 34 Reference Material Provider and ISO/IEC 17025 accredited Chemical Testing Laboratory.



Chemical Testing Laboratory
Certificate No. 2427.03

IL11110612_us



Reference Materials Producer
Cert #2495.01



Certificate of Analysis



Chemical Testing
Cert #2495.02

Catalog Number: ECS-A-030 **Lot No.** AA210126005
Description: Base/Neutrals Mix 1
Matrix: Methylene Chloride **Manufactured Date:** 1-26-2021
Expiration Date: 1-26-2024

This SPEXOrganics® Certified Reference Material, CRM, is intended primarily for use as a calibration standard or quality control standard for organic chromatography instrumentation such as GC, GC-MS, LC, and LC-MS. It can be employed in USEPA, ASTM and other methods relevant to the certified properties listed below.

Certified Compounds:

| <u>Compound</u> | <u>CAS #</u> | <u>Labeled</u> | <u>Purity</u> | <u>Certified†</u> | <u>Uncertainty</u> |
|-----------------------------------|--------------|----------------|---------------|-------------------|--------------------|
| 1,2,4-Trichlorobenzene | 120-82-1 | 2000 µg/mL | 99% | 2010 µg/mL | ± 50 µg/mL |
| 1,2-Dichlorobenzene | 95-50-1 | 2000 µg/mL | 99% | 2002 µg/mL | ± 50 µg/mL |
| 1,3-Dichlorobenzene | 541-73-1 | 2000 µg/mL | 98% | 2021 µg/mL | ± 51 µg/mL |
| 1,4-Dichlorobenzene | 106-46-7 | 2000 µg/mL | 99% | 2012 µg/mL | ± 50 µg/mL |
| 2,4-Dinitrotoluene | 121-14-2 | 2000 µg/mL | 97% | 2006 µg/mL | ± 50 µg/mL |
| 2,6-Dinitrotoluene | 606-20-2 | 2000 µg/mL | 99.6% | 2012 µg/mL | ± 50 µg/mL |
| 2-Chloronaphthalene | 91-58-7 | 2000 µg/mL | 98% | 2004 µg/mL | ± 50 µg/mL |
| 4-Bromodiphenyl ether | 101-55-3 | 2000 µg/mL | 99% | 2022 µg/mL | ± 51 µg/mL |
| 4-Chlorophenyl-phenyl ether | 7005-72-3 | 2000 µg/mL | 98% | 2001 µg/mL | ± 50 µg/mL |
| Azobenzene | 103-33-3 | 2000 µg/mL | 98% | 2001 µg/mL | ± 50 µg/mL |
| Bis(2-chloro-1-methylethyl) ether | 108-60-1 | 2000 µg/mL | 98.9% | 2010 µg/mL | ± 50 µg/mL |
| bis(2-Chloroethoxy)methane | 111-91-1 | 2000 µg/mL | 97% | 2001 µg/mL | ± 50 µg/mL |
| bis(2-Chloroethyl)ether | 111-44-4 | 2000 µg/mL | 99% | 2002 µg/mL | ± 50 µg/mL |
| Bis(2-Ethylhexyl)phthalate | 117-81-7 | 2000 µg/mL | 99% | 2003 µg/mL | ± 50 µg/mL |
| Butylbenzyl phthalate | 85-68-7 | 2000 µg/mL | 98% | 2000 µg/mL | ± 50 µg/mL |
| Carbazole | 86-74-8 | 2000 µg/mL | 95% | 2009 µg/mL | ± 50 µg/mL |
| Di-n-butyl phthalate | 84-74-2 | 2000 µg/mL | 99% | 2020 µg/mL | ± 50 µg/mL |
| Di-n-octyl phthalate | 117-84-0 | 2000 µg/mL | 98% | 2000 µg/mL | ± 50 µg/mL |
| Diethyl phthalate | 84-66-2 | 2000 µg/mL | 99.5% | 2002 µg/mL | ± 50 µg/mL |
| Dimethyl phthalate | 131-11-3 | 2000 µg/mL | 99% | 2006 µg/mL | ± 50 µg/mL |
| Hexachlorobenzene | 118-74-1 | 2000 µg/mL | 99% | 2003 µg/mL | ± 50 µg/mL |
| Hexachlorobutadiene | 87-68-3 | 2000 µg/mL | 97% | 2003 µg/mL | ± 50 µg/mL |
| Hexachlorocyclopentadiene | 77-47-4 | 2000 µg/mL | 99% | 2003 µg/mL | ± 50 µg/mL |
| Hexachloroethane | 67-72-1 | 2000 µg/mL | 98% | 2003 µg/mL | ± 50 µg/mL |
| Isophorone | 78-59-1 | 2000 µg/mL | 97% | 2003 µg/mL | ± 50 µg/mL |
| N-Nitrosodi-n-propylamine | 621-64-7 | 2000 µg/mL | 98% | 2000 µg/mL | ± 50 µg/mL |
| N-Nitrosodiphenylamine | 86-30-6 | 2000 µg/mL | 97% | 2001 µg/mL | ± 50 µg/mL |
| Nitrobenzene | 98-95-3 | 2000 µg/mL | 99% | 2001 µg/mL | ± 50 µg/mL |
| Pyridine | 110-86-1 | 2000 µg/mL | 99% | 2004 µg/mL | ± 50 µg/mL |
| N-Nitrosodimethylamine | 62-75-9 | 2000 µg/mL | 97% | 2000 µg/mL | ± 50 µg/mL |

Certificate of Reference Material

| | | | |
|------------------------|---------------------|---------------------------|-------------|
| Catalog Number: | ECS-A-030 | Lot No. | AA210126005 |
| Description: | Base/Neutrals Mix 1 | Manufactured Date: | 1-26-2021 |
| Matrix: | Methylene Chloride | Expiration Date: | 1-26-2024 |

Final Solution Verification:

Final solution integrity verified by Gas Chromatography/Mass Spectrometry. The mass spectrum of each compound was confirmed against the NIST mass spectral database.

† Certified concentration based on gravimetric weights and corrected for the purity of the compound(s) used to prepare the standard. Analytical balance calibration is verified daily with C1 weight set #23-190006 which is registered with Atlantic Scale, and traceable to NIST and NJ Division of Weights and Measures.

This CRM is guaranteed stable and accurate to within the uncertainty listed for the certified value. This includes uncertainty components due to preparation, homogeneity, short term and long term stability. During the stated period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution. For further information, contact the Sales Support Department at crmsales@spexcsp.com.

Date of Certification: 1-26-2021

Certifying Officer: Shannon Nave

Report of Certification

Catalog Number: ECS-A-030 **Lot No.** AA210126005
Description: Base/Neutrals Mix 1
Matrix: Methylene Chloride **Manufactured Date:** 1-26-2021
Expiration Date: 1-26-2024

This Certified Reference Material (CRM) has been prepared and certified under an ISO 9001:2008, ISO 17025:2005, and ISO Guide 34:2009 Quality System consistent with the following standards:

- ISO 9001:2008: Quality management systems - Requirements - Certified by UL-DQS
- ISO 17025:2005: General Requirements for the Competence of Testing and Calibration Laboratories - Accredited by A2LA
- ISO Guide 34:2009: General Requirements for the Competence of Reference Material Producers - Accredited by A2LA
- ISO Guide 31:2000: Reference Materials - Contents of Certificates and Labels
- ISO Guide 35:2006: Reference Materials - General and statistical principals for certification
- Guide to the Expression of Uncertainty in Measurement 1997
- EURACHEM/CITAC Guide: Qualifying Uncertainty in Analytical Measurements - Second Edition
- ASTM Guide D6362-98
- NIST Technical Note 1297
- ILAC-G12-2000: Guidelines for the requirements for the competence of reference material producers
- ISO/REMCO N280

Storage Requirements:

To ensure the stability of the product once it arrives in your laboratory, please store this product in a refrigerator (2°C to 8°C). Note: Shipping conditions may differ from storage conditions. The EXPIRATION DATE is calculated from the MANUFACTURED DATE using our stability data and is applicable only if the product is unopened and stored under the prescribed conditions.

Instructions for Use:

Let material come to room temperature before use. Check for precipitate and if necessary sonicate for one minute. If compounds do not dissolve after one minute then sonicate further until the product is dissolved. A clear appearance is acceptable. The minimum recommended amount that should be removed from this vial is 5 µL with a 25 µL gas tight syringe. All solutions should be thoroughly mixed, by shaking, prior to use. All surfaces that come in contact with the solution must be thoroughly cleaned prior to use. Dilutions should be performed only with Class A volumetric glassware.

Material Source:

All analytes and matrix materials are obtained and verified by SPEX CertiPrep from pre-qualified vendors as per ISO guidelines. Vendor identifications are proprietary, however sources of all materials used in the preparation and testing of SPEX CertiPrep CRMs are tracked and documented. For assistance, please contact sales support at crmsales@spexcsp.com.

Method of Preparation:

Clean laboratory procedures and techniques have been used throughout the preparation. All materials, equipment, and analytical instrumentation have been qualified prior to use. The highest purity solvents and Class A / calibrated volumetrics have been used in all preparations.

Homogeneity:

The homogeneity of this CRM has been confirmed by procedures consistent with ISO 17025:2005, ISO Guide 34:2009, and ASTM D6362-98 Appendix X2. Random, replicate samples of the final, packaged material have been analyzed to prove homogeneity in accordance with our internal procedure 4300-HOMOGEN-1A. This is consistent with the intended use of this CRM. The Degree of Homogeneity, as expressed as maximum between-bottle variation, is 1.2%

Statistical Estimator and Confidence Limits:

The Certified value 'X' as listed on the reverse of this document is at the 95% level of confidence and can be expressed as:

- $X = x \pm U$ where X=certified value, U=expanded uncertainty, x=property value
- $U = k u_c$ where k=2 is the coverage factor at the 95% confidence level
- $u_c =$ combined standard uncertainty obtained by combining the individual compound standard uncertainty components u_i , where $u_c = \sqrt{\sum u_i^2}$

Legal Notice:

SPEX CertiPrep Certified Reference Materials are not for any cosmetic, drug, or household application and are to be used only by qualified individuals who are trained in appropriate procedures. No claims against SPEX CertiPrep of any kind whatsoever, whether based on breach of warranty, alleged negligence, or otherwise, with respect to this Reference Material shall be greater than the purchase price. In no event shall SPEX CertiPrep be liable for any loss of profits or any incidental, special, or consequential damages.

Distributied By SPEX CertiPrep

SPEX CertiPrep 

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www.spexcertiprep.com • E-mail: crmsales@spexcsp.com
Phone: 1-732-549-7144 • Fax 1-732-603-9647





Certificate of Analysis

Catalog Number: ECS-A-030

Lot No. AA210126005

Description: Base/Neutrals Mix 1

Matrix: Methylene Chloride

Manufactured Date: 1-26-2021

Expiration Date: 1-26-2024

This SPEXOrganics® Certified Reference Material, CRM, is intended primarily for use as a calibration standard or quality control standard for organic chromatography instrumentation such as GC, GC-MS, LC, and LC-MS. It can be employed in USEPA, ASTM and other methods relevant to the certified properties listed below.

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| <u>Compound</u> | <u>CAS #</u> | <u>Labeled</u> | <u>Purity</u> | <u>Certified†</u> | <u>Uncertainty</u> |
|-----------------------------------|--------------|----------------|---------------|-------------------|--------------------|
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| bis(2-Chloroethoxy)methane | 111-91-1 | 2000 µg/mL | 97% | 2001 µg/mL | ± 50 µg/mL |
| bis(2-Chloroethyl)ether | 111-44-4 | 2000 µg/mL | 99% | 2002 µg/mL | ± 50 µg/mL |
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| Butylbenzyl phthalate | 85-68-7 | 2000 µg/mL | 98% | 2000 µg/mL | ± 50 µg/mL |
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K004542

Certificate of Reference Material

Catalog Number: ECS-A-030

Lot No. AA210126005

Description: Base/Neutrals Mix 1

Matrix: Methylene Chloride

Manufactured Date: 1-26-2021

Expiration Date: 1-26-2024

Final Solution Verification:

Final solution integrity verified by Gas Chromatography/Mass Spectrometry. The mass spectrum of each compound was confirmed against the NIST mass spectral database.

† Certified concentration based on gravimetric weights and corrected for the purity of the compound(s) used to prepare the standard. Analytical balance calibration is verified daily with C1 weight set #23-190006 which is registered with Atlantic Scale, and traceable to NIST and NJ Division of Weights and Measures.

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Date of Certification: 1-26-2021

Certifying Officer: Shannon Moore

Report of Certification

Catalog Number: ECS-A-030 **Lot No.** AA210126005
Description: Base/Neutrals Mix 1
Matrix: Methylene Chloride **Manufactured Date:** 1-26-2021
Expiration Date: 1-26-2024

This Certified Reference Material (CRM) has been prepared and certified under an ISO 9001:2008, ISO 17025:2005, and ISO Guide 34:2009 Quality System consistent with the following standards:

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Material Source:

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Method of Preparation:

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Homogeneity:

The homogeneity of this CRM has been confirmed by procedures consistent with ISO 17025:2005, ISO Guide 34:2009, and ASTM D6362-98 Appendix X2. Random, replicate samples of the final, packaged material have been analyzed to prove homogeneity in accordance with our internal procedure 4300-HOMOGEN-1A. This is consistent with the intended use of this CRM. The Degree of Homogeneity, as expressed as maximum between-bottle variation, is 1.2%

Statistical Estimator and Confidence Limits:

The Certified value 'X' as listed on the reverse of this document is at the 95% level of confidence and can be expressed as:

- $X = x \pm U$ where X=certified value, U=expanded uncertainty, x=property value
- $U = k u_c$ where k=2 is the coverage factor at the 95% confidence level
- u_c = combined standard uncertainty obtained by combining the individual compound standard uncertainty components u_i , where $u_c = \sqrt{\sum u_i^2}$

Legal Notice:

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Certificate of Analysis

Product Name: Toxic Substances Standard

Product Number: US-104N-1

Lot Issue Date: 02-Jul-2021

Lot Number: 0006620643

Expiration Date: 31-Jul-2023

Description:

This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

| Analyte | CAS# | Analyte Lot | Concentration ± Uncertainty |
|---------------------|-------------|-------------|-----------------------------|
| aniline | 000062-53-3 | RM12853 | 2005 ± 10 µg/mL |
| benzyl alcohol | 000100-51-6 | RM10547 | 2004 ± 10 µg/mL |
| 4-chloroaniline | 000106-47-8 | RM01886 | 2002 ± 10 µg/mL |
| dibenzofuran | 000132-64-9 | RM02077 | 2002 ± 10 µg/mL |
| 2-methylnaphthalene | 000091-57-6 | RM01258 | 2006 ± 10 µg/mL |
| 2-nitroaniline | 000088-74-4 | RM02402 | 2003 ± 10 µg/mL |
| 3-nitroaniline | 000099-09-2 | RM02424 | 2003 ± 10 µg/mL |
| 4-nitroaniline | 000100-01-6 | RM02425 | 2003 ± 10 µg/mL |

Matrix: methylene chloride (dichloromethane)

Storage Conditions: Store at Room Temperature (15° to 30°C).

Traceability:

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCCL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:

This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Intended Use:

This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

K004544

toxic sub mix#2

Solvent / Lot: methylene chloride

Prep: 5/11/2022 by JZ

Exp: 7/31/2023

Location:

JZ 05/11/22



ISO 17034 Cert
No. AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026

Page: 1 of 2

www.agilent.com/quality/
CSD-QA-015.1



ISO 17025 Cert
No. AT-1937



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No.: 31493 Lot No.: A0181243
Description: CLP 04.1 BNA Surrogate Mix
CLP 04.1 BNA Surrogate Mix 1000-1500 µg/mL, Methylene Chloride, 1mL/ampul
Container Size: 2 mL Pkg Amt: > 1 mL
Expiration Date: October 31, 2025 Storage: 10°C or colder
Handling: Sonicate prior to use. Ship: Ambient

Handwritten signature and date: 05/11/22

K004545
CLP 04.1 BNA SURR MIX
Solvent / Lot: AO175316
Prep: 5/11/2022 by JZ
Exp: 10/20/2025
Location:

Table with 7 columns: Elution Order, Compound, CAS #, Purity, Weight, Concentration, and Method. Contains 7 rows of data for various compounds like 2-Fluorophenol, Phenol-d6, 2-Chlorophenol-d4, 1,2-Dichlorobenzene-d4, Nitrobenzene-d5, 2-Fluorobiphenyl, and 2,4,6-Tribromophenol.

Certificate of Analysis

Produced by Phenova

6390 Joyce Drive STE 100, Golden, CO 80403 USA ■ Tel: 303-940-0033 ■ Fax: 303-940-0043 ■ info@phenova.com
Access your Safety Data Sheets and digital Certificates at www.phenova.com/documents.

Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101246

Lot Number: CL17953

Description: Benzoic Acid

Certification Date: January 31, 2022

Storage: 4 °C

Expiration Date: January 31, 2032

Provided As: 1 mL in 2 mL Ampoule in Methylene Chloride



Andrea Gill, Certified Reference Materials Manager

| Component | CAS # | Certified Value µg/mL | Expanded Uncertainty |
|--------------|---------|--------------------------|----------------------|
| Benzoic acid | 65-85-0 | 2000 | ± 2.714% |

K004603

Benzoic Acid @2000ug/ml

Solvent / Lot: N/A

Prep: 5/13/2022 by JZ

Exp: 1/31/2032

Location: GC

 5/13/22



Reference Material Producer
Certificate No. 2427.02



Phenova is an accredited ISO/IEC 17034 Reference Material
Producer and ISO/IEC 17025 accredited Chemical Testing Laboratory.



Chemical Testing Laboratory
Certificate No. 2427.03

Certificate of Analysis

Produced by Phenova

6390 Joyce Drive STE 100, Golden, CO 80403 USA ■ Tel: 303-940-0033 ■ Fax: 303-940-0043 ■ info@phenova.com
Access your Safety Data Sheets and digital Certificates at www.phenova.com/documents.

Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101244

Lot Number: CL17662

Description: Benzidines Standard

Certification Date: December 2, 2021

Storage: 4 °C

Expiration Date: November 30, 2031

Provided As: 1 mL in 2 mL Ampoule in Methylene Chloride

Andrea Gill

Andrea Gill, Certified Reference Materials Manager

| Component | CAS # | Certified Value µg/mL | Expanded Uncertainty |
|------------------------|---------|--------------------------|----------------------|
| Benzidine | 92-87-5 | 2000 | ± 0.211% |
| 3,3'-Dichlorobenzidine | 91-94-1 | 2000 | ± 1.305% |

K004604

Benzidines std @2000ug/ml
Solvent / Lot: Mecl2
Prep: 5/13/2022 by JZ
Exp: 11/30/2031
Location: GC

JZ 5/13/22



Reference Material Producer
Certificate No. 2427.02



Phenova is an accredited ISO/IEC 17034 Reference Material
Producer and ISO/IEC 17025 accredited Chemical Testing Laboratory.

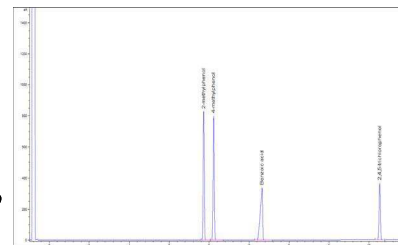


Chemical Testing Laboratory
Certificate No. 2427.03

Certificate of Analysis - Certified Reference Material

EPA TCL Hazardous Substances Mix 1

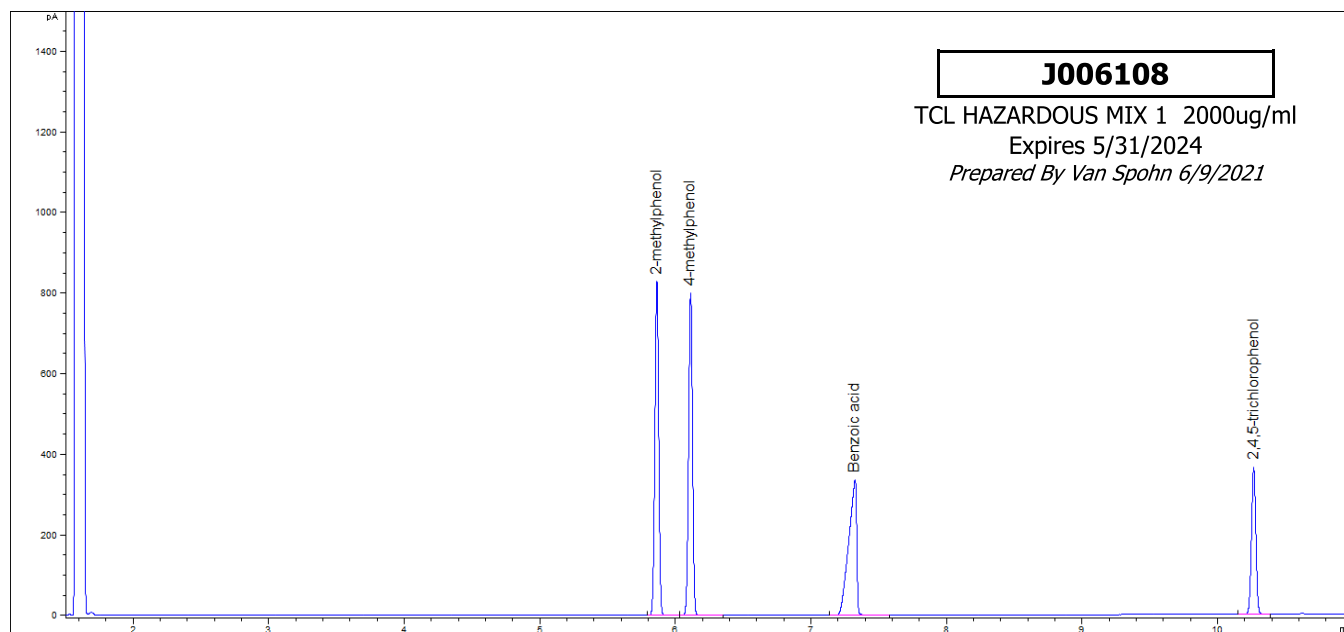
Product no.: 48907
Lot no.: LRAC9610
Expiry Date: May 2024
Manufacturing Date: May 2021
Storage: Refrigerate
Solvent/Matrix: DICHLOROMETHANE
Certificate version: LRAC9610.01 (Note: Certificates may be updated due to the availability of new data. Check our website at: www.sigma-aldrich.com for the most current version.)



Certified Values:

| Analyte | Certified Value | Units | Raw Material Purity, % | Elution order | Raw Material Lot |
|---------------------------------------|-----------------|-------|------------------------|---------------|------------------|
| 2-METHYLPHENOL CAS# 95-48-7 | 2004 ± 9 | µg/mL | 99.0 | 1 | G1735A |
| 4-METHYLPHENOL CAS# 106-44-5 | 2004 ± 13 | µg/mL | 98.9 | 2 | 06921MG |
| BENZOIC ACID CAS# 65-85-0 | 2012 ± 6 | µg/mL | 99.9 | 3 | LC16514 |
| 2,4,5-TRICHLOROPHENOL CAS# 95-95-4 | 2003 ± 6 | µg/mL | 99.9 | 4 | JS00008 |

Informational Values:



Additional Information:

Analytical Method Parameters:
 Column: Equity-5, 30 m × 0.53 mm I.D., 1.5 µm film thickness (Column #98)
 Carrier Gas: H₂, Flow: 4.5 mL/min
 Inlet Temperature: 170 °C, Injection Volume: 1 µL
 Injection Mode: Split, Split Ratio: 20:1



Temperature Program: 80 °C @ 10 °C/min to 190 °C (Hold 5 min)
Detector: FID
Detector Temperature: 310 °C

Metrological traceability: Traceable to the SI and higher order standards from NIST through an unbroken chain of comparisons. The balance used to weigh raw materials is accurate to +/-0.0001 g and calibrated regularly using mass standards traceable to NIST. All dilutions were performed gravimetrically. Additionally, individual analytes are traceable to NIST SRMs where available and specified above.

Measurement method: Where applicable, the assigned value is based on a purity determination by mass balance and gravimetrically prepared value.

Intended use: Intended for R&D and Analytical Use only. Not for drug, household or other uses.

Packaging: 1 mL in amber ampule

Instructions for handling and correct use: Use on the as is basis. The internal pressure of the container may be slightly different from the atmospheric pressure at the user`s location. Open slowly and carefully to avoid dispersion of the material.

Health and safety information: All chemical reference materials should be considered potentially hazardous and should be used only by qualified laboratory personnel. Please refer to the Safety Data Sheet for detailed information about the nature of any hazard and appropriate precautions to be taken.

Accreditation: Sigma-Aldrich RTC is accredited by the US accreditation authority ANAB as a registered reference material producer AR-1470 in accordance with ISO 17034.

Certificate issue date: 20-May-2021



Handwritten signature of Andy Ommen in black ink.

Andy Ommen - QC Manager

Handwritten signature of Mark Pooler in black ink.

Mark Pooler - QA Supervisor

Details on metrological traceability: This standard has been gravimetrically prepared using balances that have been fully qualified and calibrated to ISO 17025 requirements. All calibrations utilize NIST traceable weights which are calibrated externally by a qualified ISO 17025 accredited calibration laboratory to NIST standards. Qualification of each balance includes the assignment of a minimum weighing by a qualified and ISO 17025 accredited calibration vendor taking into consideration the balance and installed environmental conditions to ensure compliance with USP tolerances of NMT 0.10% relative error. Fill volume to predetermined specifications is gravimetrically verified throughout the dispensing process using qualified and calibrated balances. Further traceability to a corresponding Primary Standard may be achieved through a direct comparison assay. Where a Primary Standard is available, the assay value will be included in the specified section of the COA.

Associated uncertainty: Ucrm - Uncertainty values in this document are expressed as Expanded Uncertainty (Ucrm) corresponding to the 95% confidence interval. Ucrm is derived from the combined standard uncertainty multiplied by the coverage factor k, which is obtained from a t-distribution and degrees of freedom. The components of combined standard uncertainty include the uncertainties due to characterization, homogeneity, long term stability, and short term stability (transport). The components due to stability are generally considered to be negligible unless otherwise indicated by stability studies. The mathematical representation of the Ucrm calculation is as follows:

$$u_{CRM} = \sqrt{u_{char}^2 + u_{homogeneity}^2 + u_{stability}^2}$$

Homogeneity assessment: Homogeneity was assessed in accordance with ISO Guide 35. Completed units were sampled using a random stratified sampling protocol. The results of chemical analysis were then compared by Single Factor Analysis of Variance (ANOVA). The uncertainty due to homogeneity was derived from the ANOVA. Heterogeneity was not detected under the conditions of the ANOVA.

Stability assessment:

Significance of the stability assessment will be demonstrated if the analytical result of the study and the range of values represented by the Expanded Uncertainty do not overlap the result of the original assay and the range of its values represented by the Expanded Uncertainty. The method employed will usually be the same method used to characterize the assay value in the initial

Certificate of analysis revision history:

| Certificate version | Date | Reason for version |
|----------------------------|-------------|---------------------------|
| LRAC9610.01 | 20-May-2021 | Original Release Date |

Disclaimer: The purchaser is required to determine the suitability of this product for any particular application. Sigma-Aldrich RTC makes no warranty of any kind, express or implied, other than its products meet all quality control standards set by Sigma-Aldrich RTC. We do not guarantee that the product can be used for any particular application.

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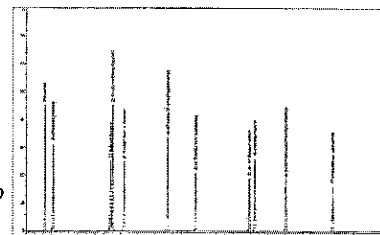
The life science business of Merck KGaA, Darmstadt, Germany
operates as MilliporeSigma in the US and Canada.



Certificate of Analysis - Certified Reference Material

EPA TCL Phenols Mix

Product no.: 48904
Lot no.: LRAD0139
Expiry Date: July 2024
Manufacturing Date: July 2021
Storage: REFRIGERATE
Solvent/Matrix: DICHLOROMETHANE
Certificate version: LRAD0139.01 (Note: Certificates may be updated due to the availability of new data. Check our website at: www.sigma-aldrich.com for the most current version.)



Certified Values:

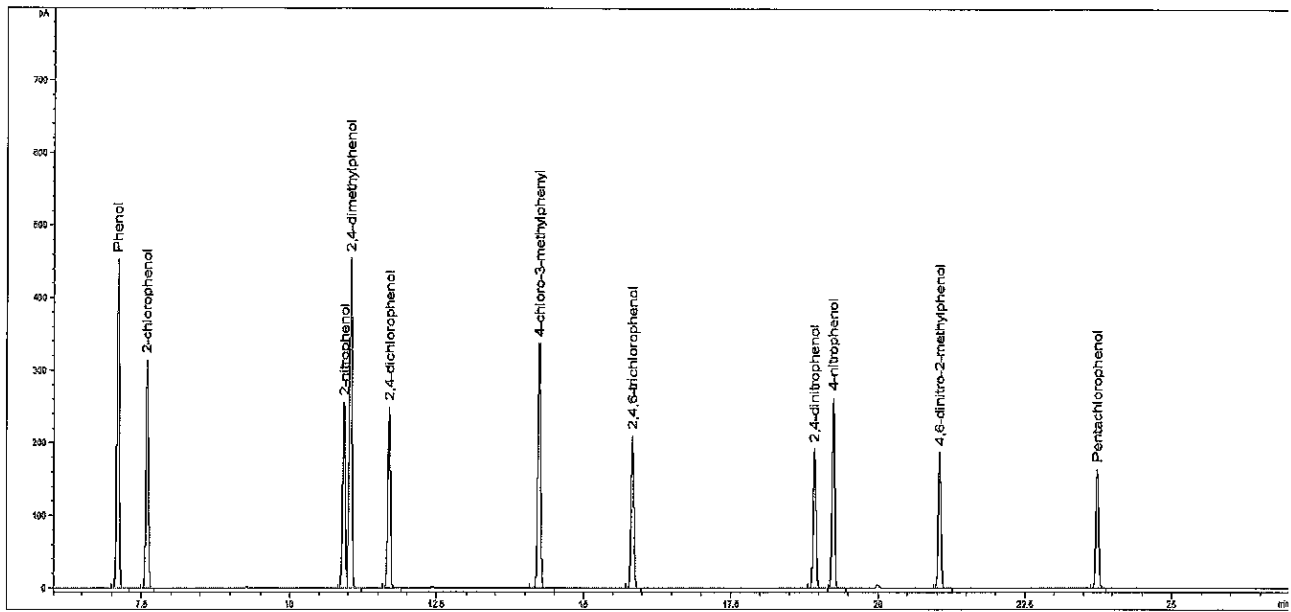
| Analyte | Certified Value | Units | Raw Material Purity, % | Raw Material Lot |
|---|-----------------|-------|------------------------|------------------|
| 2-CHLOROPHENOL CAS# 95-57-8 | 2001 ± 25 | µg/mL | 99.9 | STBG3033V |
| 2-NITROPHENOL CAS# 88-75-5 | 1999 ± 18 | µg/mL | 99.3 | 15905BB |
| 2,4-DIMETHYLPHENOL CAS# 105-67-9 | 2000 ± 14 | µg/mL | 99.2 | 05421CO |
| 2,4-DICHLOROPHENOL CAS# 120-83-2 | 2000 ± 17 | µg/mL | 99.5 | 03221TN |
| 4-CHLORO-3-METHYLPHENOL CAS# 59-50-7 | 2000 ± 5 | µg/mL | 99.9 | JS00013 |
| 2,4,6-TRICHLOROPHENOL CAS# 88-06-2 | 2002 ± 5 | µg/mL | 99.5 | 04212PS |
| 2,4-DINITROPHENOL CAS# 51-28-5 | 2000 ± 28 | µg/mL | 66.9 | STBJ5751 |
| 4-NITROPHENOL CAS# 100-02-7 | 2000 ± 33 | µg/mL | 99.0 | 04628LT |
| 2-METHYL-4,6-DINITROPHENOL CAS# 534-52-1 | 2000 ± 27 | µg/mL | 99.7 | LC18338 |
| PENTACHLOROPHENOL CAS# 87-86-5 | 1999 ± 25 | µg/mL | 97.9 | MKCD2150 |

ASSAY Method

J013597

TCL Phenols Mix 2000ug/ml
 Solvent / Lot: LRAD0139
 Prep: 12/30/2021 by VS
 Exp: 7/31/2024
 Location:





METHOD: GC (Bellefonte Method)

Column: SPB-5, 30 m x 0.53 mm I.D., 1.5 µm film thickness

Carrier Gas: H₂ Flow Rate: 4.5 mL/min

Inlet Temperature: 200 °C Injection Volume: 1.0 µL

Injection Mode: 25:1

Temperature Program: 80 °C (Hold 2 min) @ 6 °C/min to 260 °C (Hold 5 min)

Detector: FID Temperature: 310 °C

Elution details:

| EO | RT(MIN) | ANALYTE |
|----|---------|----------------------------|
| 1 | 7.095 | Phenol |
| 2 | 7.585 | 2-chlorophenol |
| 3 | 10.925 | 2-nitrophenol |
| 4 | 11.037 | 2,4-dimethylphenol |
| 5 | 11.696 | 2,4-dichlorophenol |
| 6 | 14.242 | 4-chloro-3-methylphenol |
| 7 | 15.842 | 2,4,6-trichlorophenol |
| 8 | 18.93 | 2,4-dinitrophenol |
| 9 | 19.25 | 4-nitrophenol |
| 10 | 21.05 | 4,6-dinitro-2-methylphenol |
| 11 | 23.752 | Pentachlorophenol |

Metrological traceability: Traceable to the SI and higher order standards from NIST through an unbroken chain of comparisons. The balance used to weigh raw materials is accurate to +/-0.0001 g and calibrated regularly using mass standards traceable to NIST. All dilutions were performed gravimetrically. Additionally, individual analytes are traceable to NIST SRMs where available and specified above.

Measurement method: Where applicable, the assigned value is based on a purity determination by mass balance and gravimetrically prepared value.

Intended use: Intended for R&D and Analytical Use only. Not for drug, household or other uses.

Packaging: 1 mL in amber ampule

Instructions for handling and correct use: Use on the as is basis. The internal pressure of the container may be slightly different from the atmospheric pressure at the user`s location. Open slowly and carefully to avoid dispersion of the material.

Health and safety information: All chemical reference materials should be considered potentially hazardous and should be used only by qualified laboratory personnel. Please refer to the Safety Data Sheet for detailed information about the nature of any hazard and appropriate precautions to be taken.

Accreditation: Sigma-Aldrich RTC is accredited by the US accreditation authority ANAB as a registered reference material producer AR-1470 in accordance with ISO 17034.

Certificate issue date: 12-Jul-2021



Andy Ommen

Mark Pooler

Andy Ommen - QC Manager

Mark Pooler - QA Supervisor

Details on metrological traceability:

This standard has been gravimetrically prepared using balances that have been fully qualified and calibrated to ISO 17025 requirements. All calibrations utilize NIST traceable weights which are calibrated externally by a qualified ISO 17025 accredited calibration laboratory to NIST standards. Qualification of each balance includes the assignment of a minimum weighing by a qualified and ISO 17025 accredited calibration vendor taking into consideration the balance and installed environmental conditions to ensure compliance with USP tolerances of NMT 0.10% relative error. Fill volume to predetermined specifications is gravimetrically verified throughout the dispensing process using qualified and calibrated balances. Further traceability to a corresponding Primary Standard may be achieved through a direct comparison assay. Where a Primary Standard is available, the assay value will be included in the specified section of the COA.

Associated uncertainty:

Ucrm - Uncertainty values in this document are expressed as Expanded Uncertainty (Ucrm) corresponding to the 95% confidence interval. Ucrm is derived from the combined standard uncertainty multiplied by the coverage factor k, which is obtained from a t-distribution and degrees of freedom. The components of combined standard uncertainty include the uncertainties due to characterization, homogeneity, long term stability, and short term stability (transport). The components due to stability are generally considered to be negligible unless otherwise indicated by stability studies. The mathematical representation of the Ucrm calculation is as follows:

$$u_{CRM} = \sqrt{u_{char}^2 + u_{homogeneity}^2 + u_{stability}^2}$$

Homogeneity assessment:

Homogeneity was assessed in accordance with ISO Guide 35. Completed units were sampled using a random stratified sampling protocol. The results of chemical analysis were then compared by Single Factor Analysis of Variance (ANOVA). The uncertainty due to homogeneity was derived from the ANOVA. Heterogeneity was not detected under the conditions of the ANOVA.

Stability assessment:

Significance of the stability assessment will be demonstrated if the analytical result of the study and the range of values represented by the Expanded Uncertainty do not overlap the result of the original assay and the range of its values represented by the Expanded Uncertainty. The method employed will usually be the same method used to characterize the assay value in the initial

Certificate of analysis revision history:

| Certificate version | Date | Reason for version |
|----------------------------|-------------|---------------------------|
| LRAD0139.01 | 12-Jul-2021 | Original Release Date |

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The life science business of Merck KGaA, Darmstadt, Germany operates as MilliporeSigma in the US and Canada.



Certificate of Analysis

Produced by Phenova

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Access your Safety Data Sheets and digital Certificates at www.phenova.com/documents.

Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101444

Lot Number: CL18355

Description: 8270 Calibration Standard

Certification Date: July 25, 2022

Storage: -18 °C

Expiration Date: August 31, 2023

Provided As: 1 mL in 2 mL Ampoule in MeCl₂/Methanol (97:3)

K007995

SVOA-8270 LCS MIX 1000ug/ml

Solvent / Lot: N/A

Prep: 8/29/2022 by JZ

Exp: 8/31/2023

Location: FREEZER 44



Aaron Dukes, Certified Reference Materials Manager

| Component | CAS # | Certified Value µg/mL | Expanded Uncertainty |
|------------------------------|----------|--------------------------|----------------------|
| Acenaphthene | 83-32-9 | 1000 | ± 0.300% |
| Acenaphthylene | 208-96-8 | 1000 | ± 0.225% |
| Anthracene | 120-12-7 | 1000 | ± 6.858% |
| Azobenzene | 103-33-3 | 1000 | ± 0.224% |
| Benzo(a)anthracene | 56-55-3 | 1000 | ± 0.247% |
| Benzo(a)pyrene | 50-32-8 | 1000 | ± 0.270% |
| Benzo(b)fluoranthene | 205-99-2 | 1000 | ± 0.635% |
| Benzo(k)fluoranthene | 207-08-9 | 1000 | ± 0.682% |
| Benzo(g,h,i)perylene | 191-24-2 | 1000 | ± 0.272% |
| Benzyl alcohol | 100-51-6 | 1000 | ± 0.231% |
| Benzyl butyl phthalate | 85-68-7 | 1000 | ± 0.480% |
| bis(2-Chloroethoxy)methane | 111-91-1 | 1000 | ± 0.479% |
| bis(2-Chloroethyl) ether | 111-44-4 | 1000 | ± 0.479% |
| bis(2-Chloroisopropyl) ether | 108-60-1 | 1000 | ± 0.550% |
| bis(2-Ethylhexyl) adipate | 103-23-1 | 1000 | ± 0.479% |
| bis(2-Ethylhexyl) phthalate | 117-81-7 | 1000 | ± 0.479% |
| 4-Bromophenyl phenyl ether | 101-55-3 | 1000 | ± 0.479% |
| Carbazole | 86-74-8 | 1000 | ± 0.146% |

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Certification Date: July 25, 2022

Storage: -18 °C

Expiration Date: August 31, 2023

Provided As: 1 mL in 2 mL Ampoule in MeCl₂/Methanol (97:3)

| Component | CAS # | Certified Value µg/mL | Expanded Uncertainty |
|-----------------------------|-----------|--------------------------|----------------------|
| 4-Chloroaniline | 106-47-8 | 1000 | ± 0.300% |
| 4-Chloro-3-methylphenol | 59-50-7 | 1000 | ± 0.545% |
| 2-Chloronaphthalene | 91-58-7 | 1000 | ± 0.224% |
| 2-Chlorophenol | 95-57-8 | 1000 | ± 0.507% |
| 4-Chlorophenyl phenyl ether | 7005-72-3 | 1000 | ± 0.479% |
| Chrysene | 218-01-9 | 1000 | ± 0.145% |
| Dibenz(a,h)anthracene | 53-70-3 | 1000 | ± 1.058% |
| Dibenzofuran | 132-64-9 | 1000 | ± 0.302% |
| Di-n-butyl phthalate | 84-74-2 | 1000 | ± 0.518% |
| 1,2-Dichlorobenzene | 95-50-1 | 1000 | ± 0.247% |
| 1,3-Dichlorobenzene | 541-73-1 | 1000 | ± 0.225% |
| 1,4-Dichlorobenzene | 106-46-7 | 1000 | ± 0.224% |
| 2,4-Dichlorophenol | 120-83-2 | 1000 | ± 0.545% |
| Diethyl phthalate | 84-66-2 | 1000 | ± 0.518% |
| 2,4-Dimethylphenol | 105-67-9 | 1000 | ± 0.507% |
| Dimethyl phthalate | 131-11-3 | 1000 | ± 0.518% |
| 1,2-Dinitrobenzene | 528-29-0 | 1000 | ± 0.361% |
| 1,3-Dinitrobenzene | 99-65-0 | 1000 | ± 0.300% |
| 1,4-Dinitrobenzene | 100-25-4 | 1000 | ± 0.242% |
| 2,4-Dinitrophenol | 51-28-5 | 1000 | ± 0.545% |
| 2,4-Dinitrotoluene | 121-14-2 | 1000 | ± 1.128% |

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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101444

Lot Number: CL18355

Description: 8270 Calibration Standard

Certification Date: July 25, 2022

Storage: -18 °C

Expiration Date: August 31, 2023

Provided As: 1 mL in 2 mL Ampoule in MeCl₂/Methanol (97:3)

| Component | CAS # | Certified Value µg/mL | Expanded Uncertainty |
|----------------------------|----------|--------------------------|----------------------|
| 2,6-Dinitrotoluene | 606-20-2 | 1000 | ± 0.224% |
| Di-n-octyl phthalate | 117-84-0 | 1000 | ± 0.486% |
| Fluoranthene | 206-44-0 | 1000 | ± 0.224% |
| Fluorene | 86-73-7 | 1000 | ± 0.224% |
| Hexachlorobenzene | 118-74-1 | 1000 | ± 0.152% |
| Hexachlorobutadiene | 87-68-3 | 1000 | ± 0.746% |
| Hexachlorocyclopentadiene | 77-47-4 | 1000 | ± 0.153% |
| Hexachloroethane | 67-72-1 | 1000 | ± 0.300% |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | 1000 | ± 0.883% |
| Isophorone | 78-59-1 | 1000 | ± 0.145% |
| 2-Methyl-4,6-dinitrophenol | 534-52-1 | 1000 | ± 0.508% |
| 1-Methylnaphthalene | 90-12-0 | 1000 | ± 0.479% |
| 2-Methylnaphthalene | 91-57-6 | 1000 | ± 0.487% |
| 2-Methylphenol | 95-48-7 | 1000 | ± 0.545% |
| 3-Methylphenol | 108-39-4 | 500 | ± 0.279% |
| 4-Methylphenol | 106-44-5 | 500 | ± 0.399% |
| Naphthalene | 91-20-3 | 1000 | ± 0.226% |
| 2-Nitroaniline | 88-74-4 | 1000 | ± 0.224% |
| 3-Nitroaniline | 99-09-2 | 1000 | ± 0.235% |
| 4-Nitroaniline | 100-01-6 | 1000 | ± 0.300% |
| Nitrobenzene | 98-95-3 | 1000 | ± 0.300% |

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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101444

Lot Number: CL18355

Description: 8270 Calibration Standard

Certification Date: July 25, 2022

Storage: -18 °C

Expiration Date: August 31, 2023

Provided As: 1 mL in 2 mL Ampoule in MeCl₂/Methanol (97:3)

| Component | CAS # | Certified Value µg/mL | Expanded Uncertainty |
|---------------------------|----------|--------------------------|----------------------|
| 2-Nitrophenol | 88-75-5 | 1000 | ± 0.514% |
| 4-Nitrophenol | 100-02-7 | 1000 | ± 0.519% |
| N-Nitrosodimethylamine | 62-75-9 | 1000 | ± 0.503% |
| N-Nitrosodiphenylamine | 86-30-6 | 1000 | ± 0.476% |
| N-Nitrosodi-n-propylamine | 621-64-7 | 1000 | ± 0.461% |
| Pentachlorophenol | 87-86-5 | 1000 | ± 0.202% |
| Phenanthrene | 85-01-8 | 1000 | ± 0.145% |
| Phenol | 108-95-2 | 1000 | ± 0.545% |
| Pyrene | 129-00-0 | 1000 | ± 0.147% |
| Pyridine | 110-86-1 | 1000 | ± 0.503% |
| 2,3,4,6-Tetrachlorophenol | 58-90-2 | 1000 | ± 0.247% |
| 2,3,5,6-Tetrachlorophenol | 935-95-5 | 1000 | ± 0.247% |
| 1,2,4-Trichlorobenzene | 120-82-1 | 1000 | ± 0.224% |
| 2,4,5-Trichlorophenol | 95-95-4 | 1000 | ± 0.507% |
| 2,4,6-Trichlorophenol | 88-06-2 | 1000 | ± 0.509% |

Notes: The proper chemical name for Bis(2-Chloroisopropyl) ether is 2,2'-oxybis(1-chloropropane). The analytical uncertainty contribution to the expanded uncertainty for 3 and 4-Methylphenol is measured as the total of the two analytes. N-Nitrosodiphenylamine presents as Diphenylamine at 854 µg/mL.



Reference Material Producer
Certificate No. 2427.02



Phenova is an accredited ISO/IEC 17034 Reference Material
Producer and ISO/IEC 17025 accredited Chemical Testing Laboratory.



Chemical Testing Laboratory
Certificate No. 2427.03

Certificate of Analysis

Produced by Phenova

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Access your Safety Data Sheets and digital Certificates at www.phenova.com/documents.

1. Quality Document: This Certificate of Analysis has been created in accordance with ISO Guide 31¹ and ISO Guide 35.²
2. Quality Standards: Phenova is accredited by A2LA to ISO 17034³ and ISO/IEC 17025⁴ as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.
3. Intended Use: The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.
4. Handling and Usage Notes: Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.
5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.
6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.
7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.
8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.
9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98⁵ and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$u_{CRM} = \sqrt{u_M^2 + u_H^2 + u_{LTS}^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.
11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.
12. Period of Validity: The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

- ¹ ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.
- ² ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
- ³ ISO 17034 – General Requirements for the Competence of Reference Material Producers.
- ⁴ ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
- ⁵ ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)



Reference Material Producer
Certificate No. 2427.02



Phenova is an accredited ISO/IEC 17034 Reference Material
Producer and ISO/IEC 17025 accredited Chemical Testing Laboratory.



Chemical Testing Laboratory
Certificate No. 2427.03

Certificate of Composition - Analytical Standard

BASE STOCK

Product no.: 22523051
Lot no.: LRAD2751
Expiry Date: June 2024
Manufacturing Date: June 2022
Storage: REFRIGERATE
Solvent/Matrix: DICHLOROMETHANE
Certificate version: LRAD2751.01 (Note: Certificates may be updated due to the availability of new data. Check our website at: www.sigma-aldrich.com for the most current version.)

| Analyte | Assigned Value | Units | Raw Material Purity, % | Raw Material Lot |
|---|----------------|-------|------------------------|------------------|
| 3,3'-DICHLOROBENZIDINE, 100MG, NEAT CAS# 91-94-1 | 799 | µg/mL | 99.8 | LRAD2376 |
| 2,4-DINITROTOLUENE CAS# 121-14-2 | 801 | µg/mL | 97.8 | LB46632 |
| 2,6-DINITROTOLUENE CAS# 606-20-2 | 800 | µg/mL | 99.2 | 11231AN |
| HEXACHLOROCYCLOPENTADIENE CAS# 77-47-4 | 800 | µg/mL | 96.0 | LB95525 |
| N-NITROSODIMETHYLAMINE CAS# 62-75-9 | 800 | µg/mL | 95.0 | 2019-030598 5 |
| PERYLENE CAS# 198-55-0 | 200 | µg/mL | 99.6 | 04101PG |
| ANILINE CAS# 62-53-3 | 800 | µg/mL | 99.9 | LA41596 |
| 4-CHLOROANILINE CAS# 106-47-8 | 800 | µg/mL | 100.0 | MKBZ6909V |
| 2-NITROANILINE CAS# 88-74-4 | 799 | µg/mL | 99.9 | 07411KN |
| 3-NITROANILINE CAS# 99-09-2 | 800 | µg/mL | 99.9 | LC09264 |
| 4-NITROANILINE CAS# 100-01-6 | 800 | µg/mL | 99.9 | 15609AA |
| PYRIDINE (LOW WATER) CAS# 110-86-1 | 800 | µg/mL | 100.0 | SHBJ9218 |

Measurement method: Where applicable, the assigned value is based on a purity determination by mass balance and gravimetrically prepared value.

Intended use: Intended for R&D and Analytical Use only. Not for drug, household or other uses.

Packaging: 1 mL in amber ampule

Instructions for handling and correct use: Use on the as is basis. The internal pressure of the container may be slightly different from the atmospheric pressure at the user's location. Open slowly and carefully to avoid dispersion of the material.



Health and safety information:

All chemical reference materials should be considered potentially hazardous and should be used only by qualified laboratory personnel. Please refer to the Safety Data Sheet for detailed information about the nature of any hazard and appropriate precautions to be taken.

Certificate issue date:

03 JUN 2022



Andy Ommen - QC Manager



Scott Stetler - QA Manager

Certificate of analysis revision history:

| Certificate version | Date | Reason for version |
|---------------------|-------------|-----------------------|
| LRAD2751.01 | 03 JUN 2022 | Original Release Date |

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Certificate of Composition - Analytical Standard

ACID STOCK

Product no.: 22523046
Lot no.: LRAD2750
Expiry Date: June 2024
Manufacturing Date: June 2022
Storage: REFRIGERATE
Solvent/Matrix: DICHLOROMETHANE
Certificate version: LRAD2750.01 (Note: Certificates may be updated due to the availability of new data. Check our website at: www.sigma-aldrich.com for the most current version.)

| Analyte | Assigned Value | Units | Raw Material Purity, % | Raw Material Lot |
|---|----------------|-------|------------------------|------------------|
| 2,4-DIMETHYLPHENOL CAS# 105-67-9 | 800 | µg/mL | 99.9 | LB88935 |
| 2,4-DICHLOROPHENOL CAS# 120-83-2 | 800 | µg/mL | 100.0 | BCBZ6787 |
| 2,4,5-TRICHLOROPHENOL CAS# 95-95-4 | 801 | µg/mL | 99.9 | JS00008 |
| 2,4-DINITROPHENOL CAS# 51-28-5 | 1799 | µg/mL | 66.9 | STBJ5751 |
| 2,4,6-TRICHLOROPHENOL CAS# 88-06-2 | 800 | µg/mL | 98.7 | LB82983 |
| 4-CHLORO-3-METHYLPHENOL CAS# 59-50-7 | 800 | µg/mL | 100.0 | BCCD4461 |
| 4-NITROPHENOL CAS# 100-02-7 | 800 | µg/mL | 100.0 | MKCN1089 |
| 2-METHYL-4,6-DINITROPHENOL CAS# 534-52-1 | 1800 | µg/mL | 100.0 | BCBX5762 |
| PENTACHLOROPHENOL CAS# 87-86-5 | 800 | µg/mL | 99.0 | 23614-01 |
| BENZOIC ACID CAS# 65-85-0 | 1800 | µg/mL | 99.9 | LC16514 |

Measurement method: Where applicable, the assigned value is based on a purity determination by mass balance and gravimetrically prepared value.

Intended use: Intended for R&D and Analytical Use only. Not for drug, household or other uses.

Packaging: 1 mL in amber ampule

Instructions for handling and correct use: Use on the as is basis. The internal pressure of the container may be slightly different from the atmospheric pressure at the user's location. Open slowly and carefully to avoid dispersion of the material.

Health and safety information: All chemical reference materials should be considered potentially hazardous and should be used only by qualified laboratory personnel. Please refer to the Safety Data Sheet for detailed information about the nature of any hazard and appropriate precautions to be taken.



Certificate issue date:

03 JUN 2022



Andy Ommen - QC Manager



Scott Stetler - QA Manager

Certificate of analysis revision history:

| Certificate version | Date | Reason for version |
|---------------------|-------------|-----------------------|
| LRAD2750.01 | 03 JUN 2022 | Original Release Date |

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Certificate of Analysis

Produced by Phenova

6390 Joyce Drive STE 100, Golden, CO 80403 USA ■ Tel: 303-940-0033 ■ Fax: 303-940-0043 ■ info@phenova.com
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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101244

Lot Number: CL18939

Description: Benzidines Standard

Certification Date: September 7, 2022

Storage: 4 °C

Expiration Date: August 31, 2032

Provided As: 1 mL in 2 mL Ampoule in Methylene Chloride



Aaron Dukes, Certified Reference Materials Manager

| Component | CAS # | Certified Value µg/mL | Expanded Uncertainty |
|------------------------|---------|--------------------------|----------------------|
| Benzidine | 92-87-5 | 2000 | ± 3.812% |
| 3,3'-Dichlorobenzidine | 91-94-1 | 2000 | ± 1.419% |

L001288

Benzidines std @2000ug/ml
Solvent / Lot: CL18939
Prep: 2/7/2023 by VS
Exp: 8/31/2032
Location: GC



Reference Material Producer
Certificate No. 2427.02



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Producer and ISO/IEC 17025 accredited Chemical Testing Laboratory.



Chemical Testing Laboratory
Certificate No. 2427.03

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Catalog No.: AL0-101443

Lot Number: CL18741

Description: Aniline

Certification Date: July 21, 2022

Storage: 4 °C

Expiration Date: July 31, 2030

Provided As: 1 mL in 2 mL Ampoule in Methylene Chloride



Aaron Duker, Certified Reference Materials Manager

| Component | CAS # | Certified Value µg/mL | Expanded Uncertainty |
|-----------|---------|--------------------------|----------------------|
| Aniline | 62-53-3 | 1000 | ± 1.719% |

L001290

Aniline-1000ug/mL
Solvent / Lot: CL18741
Prep: 2/7/2023 by VS
Exp: 7/31/2030
Location: GC



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Certified Reference Material

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Catalog No.: AL0-101444

Lot Number: CL18811

Description: 8270 Calibration Standard

Certification Date: August 9, 2022

Storage: -18 °C

Expiration Date: November 30, 2023

Provided As: 1 mL in 2 mL Ampoule in MeCl₂/Methanol (97:3)

L001291

SVOA-8270 LCS MIX 1000ug/ml

Solvent / Lot: CL18811

Prep: 2/7/2023 by VS

Exp: 11/30/2023

Location: FREEZER 44



Aaron Duker, Certified Reference Materials Manager

| Component | CAS # | µg/mL | Expanded Uncertainty |
|------------------------------|----------|-------|----------------------|
| Acenaphthene | 83-32-9 | 1000 | ± 1.643% |
| Acenaphthylene | 208-96-8 | 1000 | ± 1.317% |
| Anthracene | 120-12-7 | 1000 | ± 2.136% |
| Azobenzene | 103-33-3 | 1000 | ± 1.630% |
| Benzo(a)anthracene | 56-55-3 | 1000 | ± 2.372% |
| Benzo(a)pyrene | 50-32-8 | 1000 | ± 3.028% |
| Benzo(b)fluoranthene | 205-99-2 | 1000 | ± 2.377% |
| Benzo(k)fluoranthene | 207-08-9 | 1000 | ± 2.286% |
| Benzo(g,h,i)perylene | 191-24-2 | 1000 | ± 2.561% |
| Benzyl alcohol | 100-51-6 | 1000 | ± 1.803% |
| Benzyl butyl phthalate | 85-68-7 | 1000 | ± 1.855% |
| bis(2-Chloroethoxy)methane | 111-91-1 | 1000 | ± 1.626% |
| bis(2-Chloroethyl) ether | 111-44-4 | 1000 | ± 1.776% |
| bis(2-Chloroisopropyl) ether | 108-60-1 | 1000 | ± 2.406% |
| bis(2-Ethylhexyl) adipate | 103-23-1 | 1000 | ± 2.415% |
| bis(2-Ethylhexyl) phthalate | 117-81-7 | 1000 | ± 2.350% |
| 4-Bromophenyl phenyl ether | 101-55-3 | 1000 | ± 1.708% |
| Carbazole | 86-74-8 | 1000 | ± 1.844% |



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Catalog No.: AL0-101444

Lot Number: CL18811

Description: 8270 Calibration Standard

Certification Date: August 9, 2022

Storage: -18 °C

Expiration Date: November 30, 2023

Provided As: 1 mL in 2 mL Ampoule in MeCl₂/Methanol (97:3)

| Component | CAS # | Certified Value µg/mL | Expanded Uncertainty |
|-----------------------------|-----------|--------------------------|----------------------|
| 4-Chloroaniline | 106-47-8 | 1000 | ± 2.831% |
| 4-Chloro-3-methylphenol | 59-50-7 | 1000 | ± 1.571% |
| 2-Chloronaphthalene | 91-58-7 | 1000 | ± 2.022% |
| 2-Chlorophenol | 95-57-8 | 1000 | ± 2.001% |
| 4-Chlorophenyl phenyl ether | 7005-72-3 | 1000 | ± 1.634% |
| Chrysene | 218-01-9 | 1000 | ± 2.358% |
| Dibenz(a,h)anthracene | 53-70-3 | 1000 | ± 2.452% |
| Dibenzofuran | 132-64-9 | 1000 | ± 0.310% |
| Di-n-butyl phthalate | 84-74-2 | 1000 | ± 2.347% |
| 1,2-Dichlorobenzene | 95-50-1 | 1000 | ± 1.803% |
| 1,3-Dichlorobenzene | 541-73-1 | 1000 | ± 1.808% |
| 1,4-Dichlorobenzene | 106-46-7 | 1000 | ± 1.503% |
| 2,4-Dichlorophenol | 120-83-2 | 1000 | ± 1.393% |
| Diethyl phthalate | 84-66-2 | 1000 | ± 1.870% |
| 2,4-Dimethylphenol | 105-67-9 | 1000 | ± 2.495% |
| Dimethyl phthalate | 131-11-3 | 1000 | ± 2.113% |
| 1,2-Dinitrobenzene | 528-29-0 | 1000 | ± 0.240% |
| 1,3-Dinitrobenzene | 99-65-0 | 1000 | ± 1.221% |
| 1,4-Dinitrobenzene | 100-25-4 | 1000 | ± 0.246% |
| 2,4-Dinitrophenol | 51-28-5 | 1000 | ± 0.519% |
| 2,4-Dinitrotoluene | 121-14-2 | 1000 | ± 2.242% |



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Catalog No.: AL0-101444 **Lot Number:** CL18811
Description: 8270 Calibration Standard **Certification Date:** August 9, 2022
Storage: -18 °C **Expiration Date:** November 30, 2023
Provided As: 1 mL in 2 mL Ampoule in MeCl₂/Methanol (97:3)

| Component | CAS # | Certified Value µg/mL | Expanded Uncertainty |
|----------------------------|----------|--------------------------|----------------------|
| 2,6-Dinitrotoluene | 606-20-2 | 1000 | ± 2.154% |
| Di-n-octyl phthalate | 117-84-0 | 1000 | ± 2.670% |
| Fluoranthene | 206-44-0 | 1000 | ± 2.103% |
| Fluorene | 86-73-7 | 1000 | ± 0.890% |
| Hexachlorobenzene | 118-74-1 | 1000 | ± 1.210% |
| Hexachlorobutadiene | 87-68-3 | 1000 | ± 1.304% |
| Hexachlorocyclopentadiene | 77-47-4 | 1000 | ± 1.510% |
| Hexachloroethane | 67-72-1 | 1000 | ± 3.281% |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | 1000 | ± 1.921% |
| Isophorone | 78-59-1 | 1000 | ± 2.022% |
| 2-Methyl-4,6-dinitrophenol | 534-52-1 | 1000 | ± 1.661% |
| 1-Methylnaphthalene | 90-12-0 | 1000 | ± 1.929% |
| 2-Methylnaphthalene | 91-57-6 | 1000 | ± 2.220% |
| 2-Methylphenol | 95-48-7 | 1000 | ± 2.168% |
| 3-Methylphenol | 108-39-4 | 500 | ± 1.025% |
| 4-Methylphenol | 106-44-5 | 500 | ± 1.064% |
| Naphthalene | 91-20-3 | 1000 | ± 1.199% |
| 2-Nitroaniline | 88-74-4 | 1000 | ± 1.874% |
| 3-Nitroaniline | 99-09-2 | 1000 | ± 2.146% |
| 4-Nitroaniline | 100-01-6 | 1000 | ± 0.300% |
| Nitrobenzene | 98-95-3 | 1000 | ± 1.704% |



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Catalog No.: AL0-101444 **Lot Number:** CL18811
Description: 8270 Calibration Standard **Certification Date:** August 9, 2022
Storage: -18 °C **Expiration Date:** November 30, 2023
Provided As: 1 mL in 2 mL Ampoule in MeCl₂/Methanol (97:3)

| Component | CAS # | Certified Value µg/mL | Expanded Uncertainty |
|---------------------------|----------|--------------------------|----------------------|
| 2-Nitrophenol | 88-75-5 | 1000 | ± 2.051% |
| 4-Nitrophenol | 100-02-7 | 1000 | ± 1.413% |
| N-Nitrosodimethylamine | 62-75-9 | 1000 | ± 0.545% |
| N-Nitrosodiphenylamine | 86-30-6 | 1000 | ± 1.669% |
| N-Nitrosodi-n-propylamine | 621-64-7 | 1000 | ± 0.712% |
| Pentachlorophenol | 87-86-5 | 1000 | ± 2.454% |
| Phenanthrene | 85-01-8 | 1000 | ± 2.072% |
| Phenol | 108-95-2 | 1000 | ± 2.140% |
| Pyrene | 129-00-0 | 1000 | ± 1.869% |
| Pyridine | 110-86-1 | 1000 | ± 0.545% |
| 2,3,4,6-Tetrachlorophenol | 58-90-2 | 1000 | ± 2.552% |
| 2,3,5,6-Tetrachlorophenol | 935-95-5 | 1000 | ± 2.220% |
| 1,2,4-Trichlorobenzene | 120-82-1 | 1000 | ± 1.632% |
| 2,4,5-Trichlorophenol | 95-95-4 | 1000 | ± 1.596% |
| 2,4,6-Trichlorophenol | 88-06-2 | 1000 | ± 0.481% |

Notes: The proper chemical name for Bis(2-Chloroisopropyl) ether is 2,2'-oxybis(1-chloropropane). The analytical uncertainty contribution to the expanded uncertainty for 3 and 4-Methylphenol is measured as the total of the two analytes. N-Nitrosodiphenylamine presents as Diphenylamine at 854 µg/mL.



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1. **Quality Document:** This Certificate of Analysis has been created in accordance with ISO Guide 31¹ and ISO Guide 35.²
2. **Quality Standards:** Phenova is accredited by A2LA to ISO 17034³ and ISO/IEC 17025⁴ as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.
3. **Intended Use:** The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.
4. **Handling and Usage Notes:** Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.
5. **Hazardous Situation:** The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.
6. **Level of Homogeneity:** The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.
7. **Certified Value:** Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.
8. **Raw Materials and Purity:** Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.
9. **Expanded Uncertainty:** The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98⁵ and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. **Metrological Traceability:** The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.
11. **Values Obtained During Product Testing:** This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.
12. **Period of Validity:** The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

- ¹ ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.
- ² ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
- ³ ISO 17034 – General Requirements for the Competence of Reference Material Producers.
- ⁴ ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
- ⁵ ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)



Reference Material Producer
Certificate No. 2427.02



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Chemical Testing Laboratory
Certificate No. 2427.03



Form I
ORGANIC ANALYSIS DATA SHEET
EPA 8270E-SIM
SIM SVOC Organics (Dual scan list)

Laboratory: Analytical Resources, LLC

Client: Anchor OEA, LLC

Project: AOC5 MR Phase 1

Matrix: Sediment

Laboratory ID: 23A0180-01RE1 A

SDG: 23A0180

Sampled: 01/10/23 08:05

Prepared: 03/17/23 14:20

File ID: NT1003222329S.D

% Solids: 51.36

Preparation: EPA 3546 (Microwave)

Analyzed: 03/23/23 10:49

Batch: BLC0442

Sequence: SLC0407

Initial/Final: 19.57 g Wet / 1 mL

Instrument: NT10

Column: ZB-5MSi

Calibration: GC00049

Cleanups: GPC

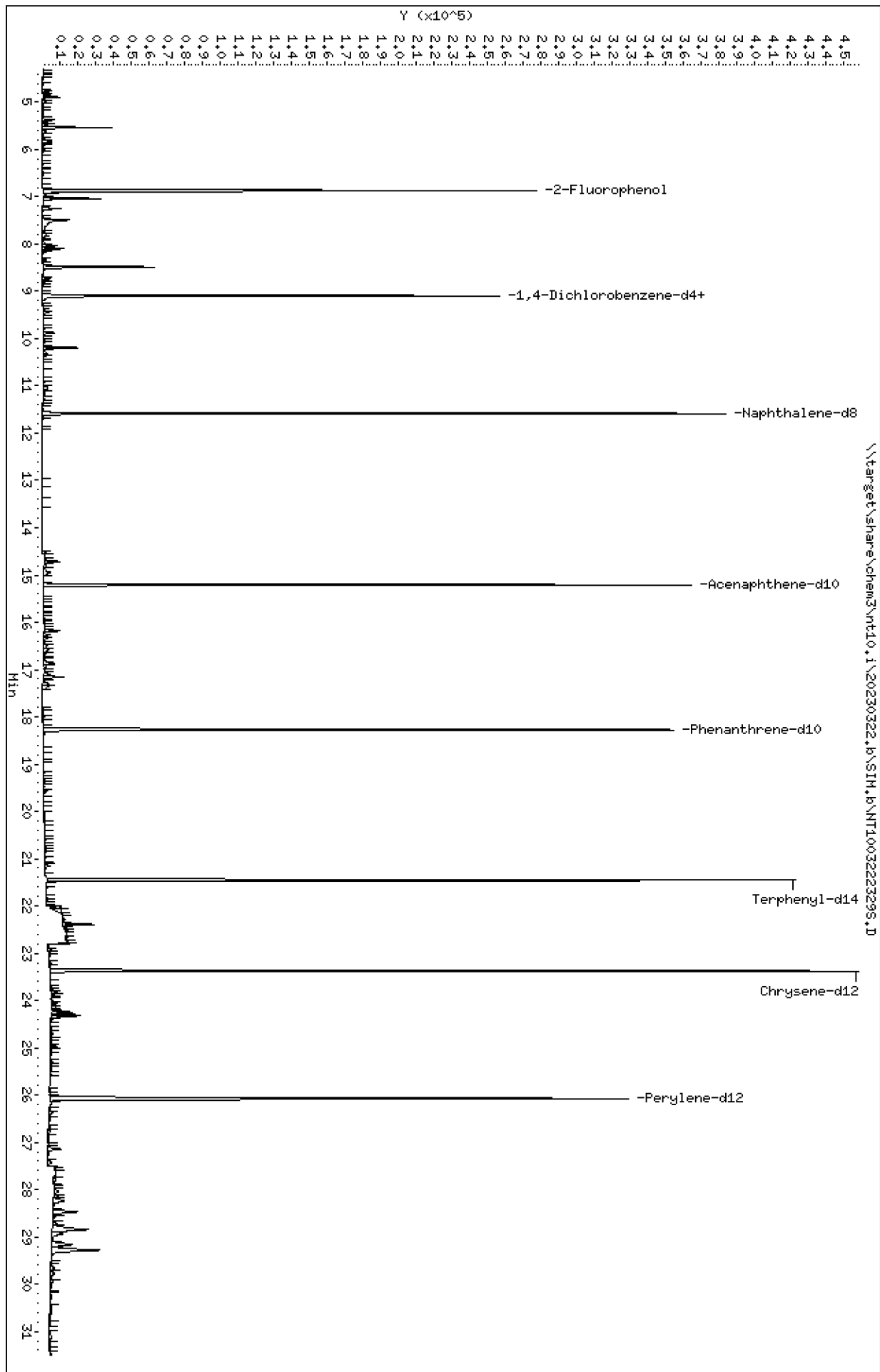
| CAS NO. | COMPOUND | DILUTION | CONC: (ug/kg dry) | Q | DL | RL |
|----------|------------------------|----------|----------------------|------|------|------|
| 106-46-7 | 1,4-Dichlorobenzene | 1 | 2.5 | J | 0.6 | 5.0 |
| 95-50-1 | 1,2-Dichlorobenzene | 1 | 5.0 | U | 0.7 | 5.0 |
| 100-51-6 | Benzyl Alcohol | 1 | 10.2 | J | 2.5 | 19.9 |
| 65-85-0 | Benzoic acid | 1 | 23.4 | J | 13.3 | 99.5 |
| 105-67-9 | 2,4-Dimethylphenol | 1 | 19.9 | U | 2.2 | 19.9 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1 | 5.0 | U | 2.7 | 5.0 |
| 86-30-6 | N-Nitrosodiphenylamine | 1 | 3.7 | M, J | 1.3 | 5.0 |
| 87-86-5 | Pentachlorophenol | 1 | 4.7 | J | 2.1 | 19.9 |

| SURROGATES | ADDED: (ug/kg dry) | FOUND: (ug/kg dry) | % REC | QC LIMITS | Q |
|-----------------|-----------------------|-----------------------|-------|-----------|---|
| 2-Fluorophenol | 746.18 | 555 | 74.4 | 27 - 120 | |
| p-Terphenyl-d14 | 497.46 | 558 | 112 | 37 - 120 | |

Data File: \\target\share\chem3\nt10.1\20230322.16\SIM.B\NT1003222329S.D
 Date: 23-MAR-2023 10:49
 Client ID:
 Sample Info: 23A0180-01
 Volume Injected (uL): 1.0
 Column phase: ZB-5msi

Instrument: nt10.1
 Operator: JGR
 Column diameter: 0.25

\\target\share\chem3\nt10.1\20230322.16\SIM.B\NT1003222329S.D



Date : 23-MAR-2023 10:49

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-01

Volume Injected (uL): 1.0

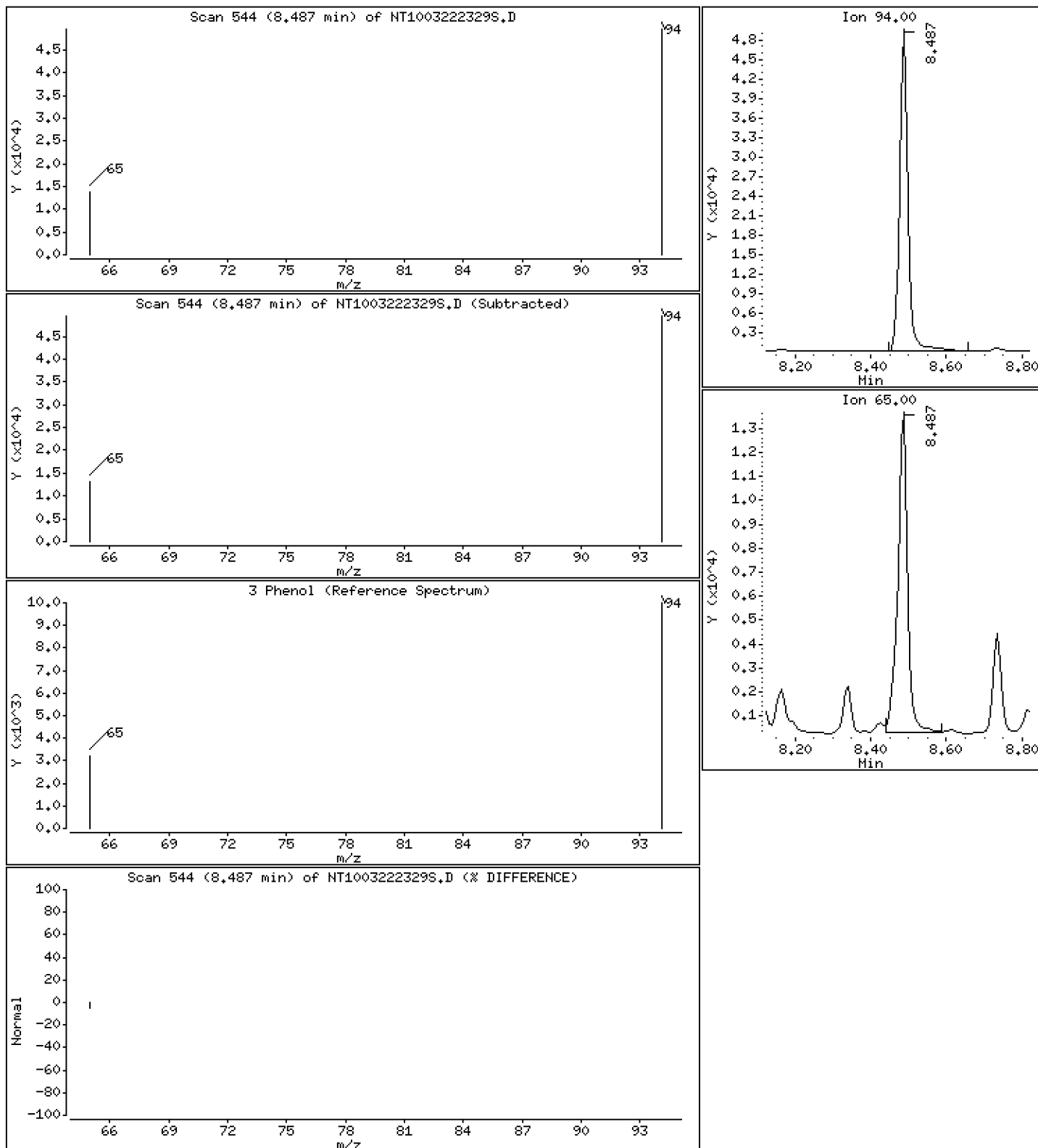
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

3 Phenol

Concentration: 1.118 ug/L



Date : 23-MAR-2023 10:49

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-01

Volume Injected (uL): 1.0

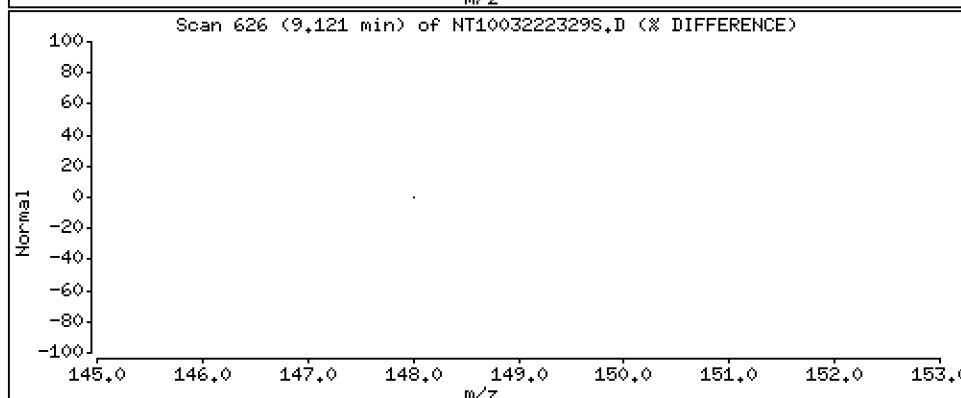
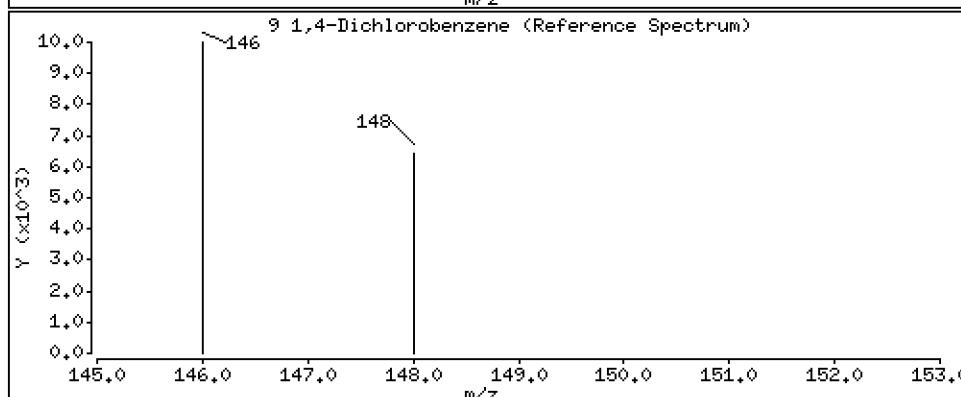
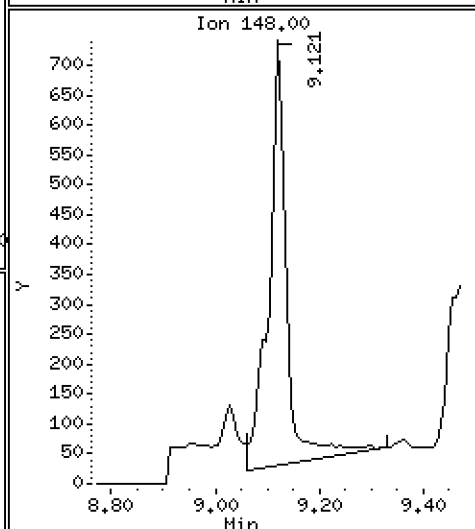
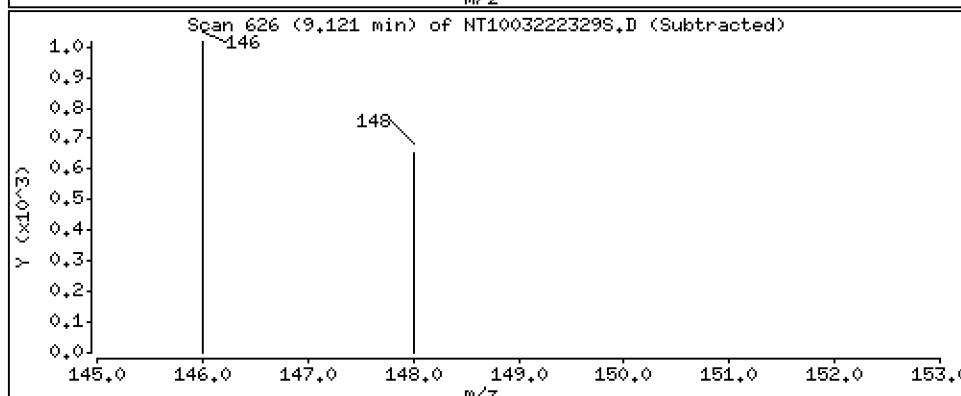
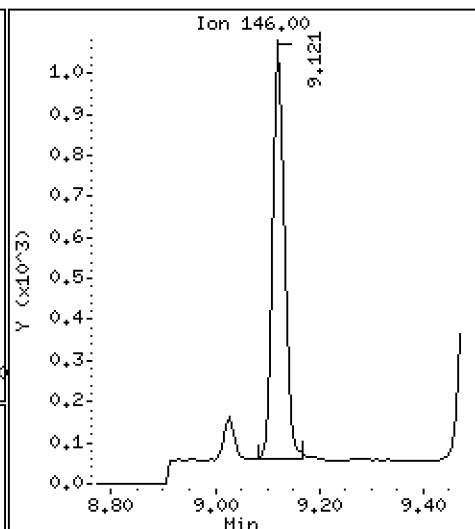
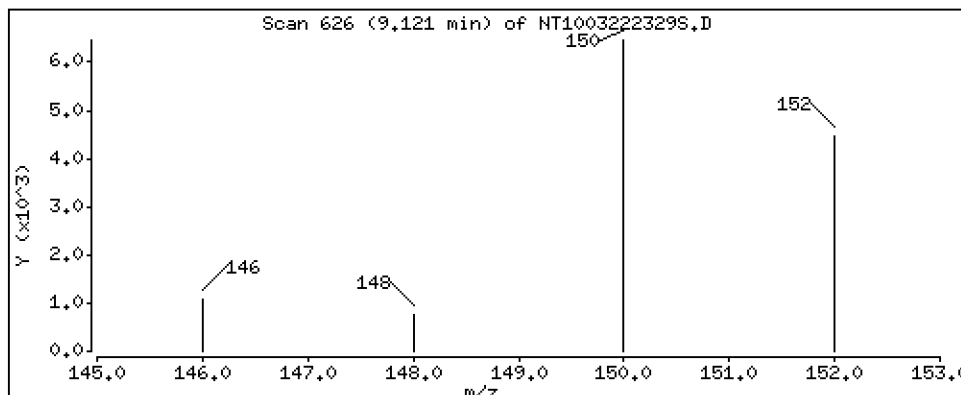
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 0,02525 ug/L



Date : 23-MAR-2023 10:49

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-01

Volume Injected (uL): 1.0

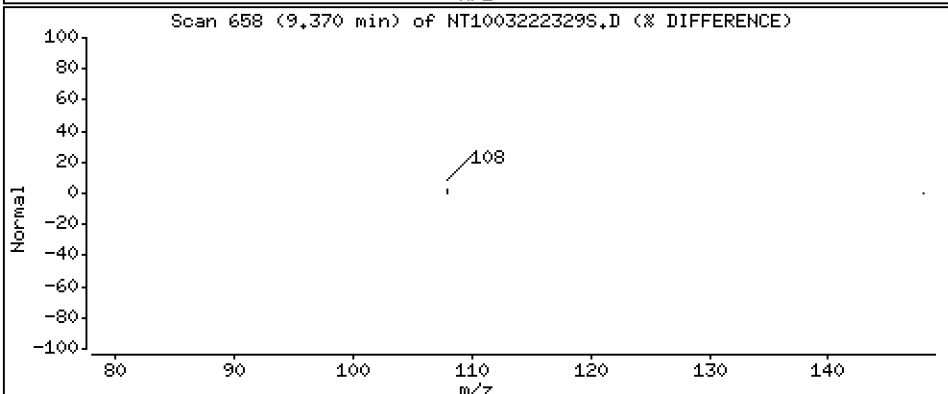
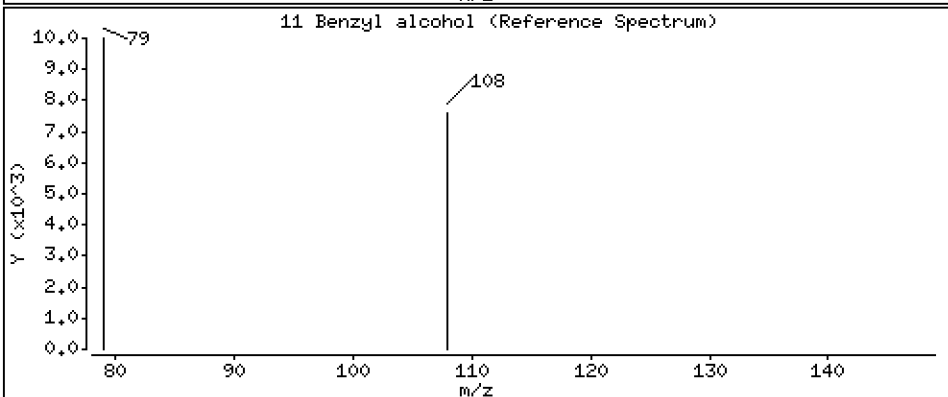
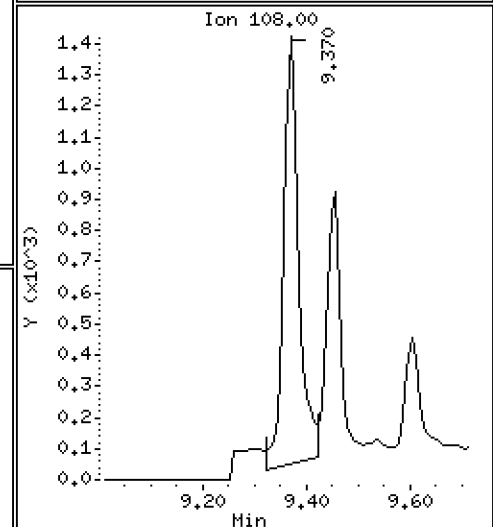
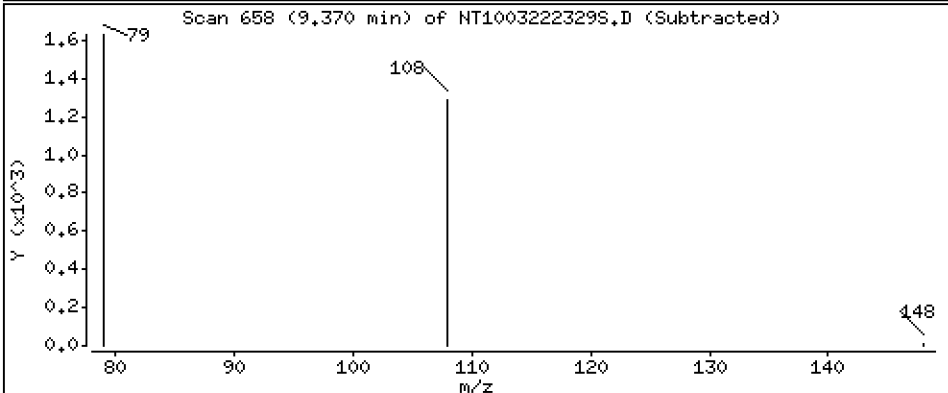
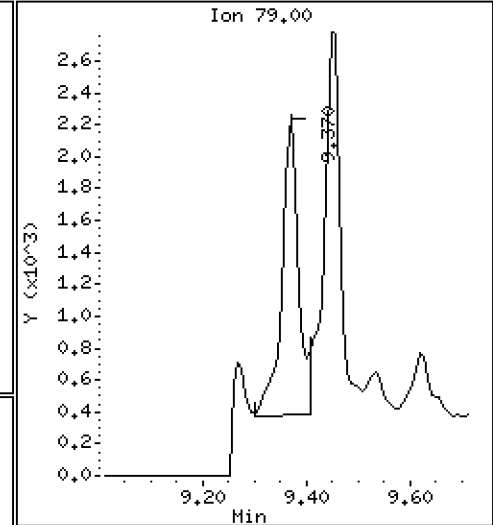
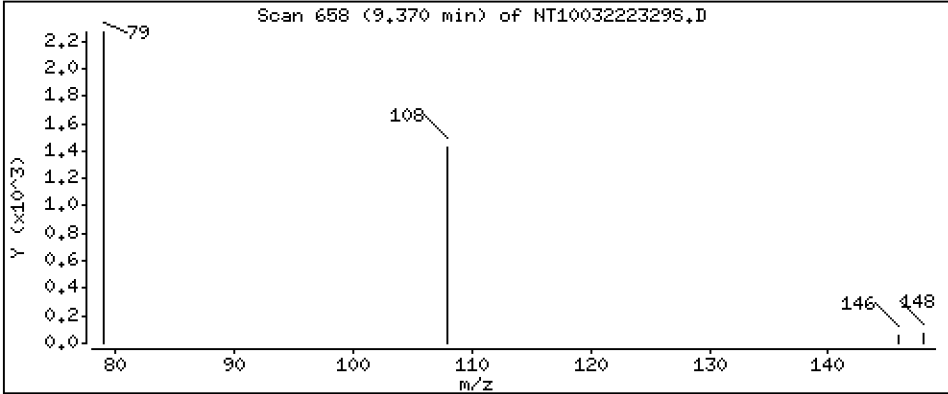
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 0.1029 ug/L



Date : 23-MAR-2023 10:49

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-01

Volume Injected (uL): 1.0

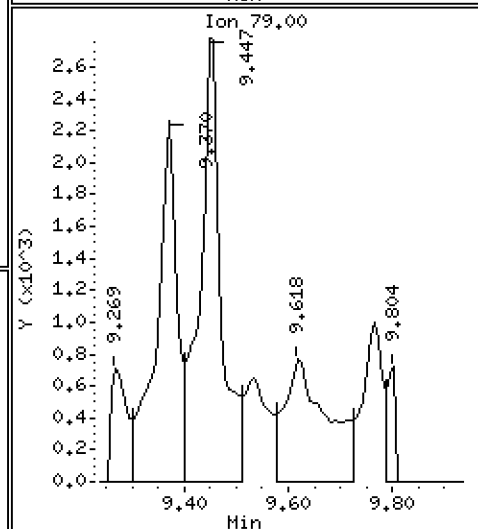
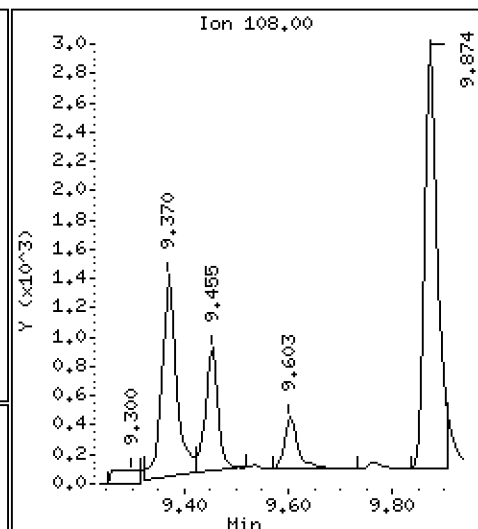
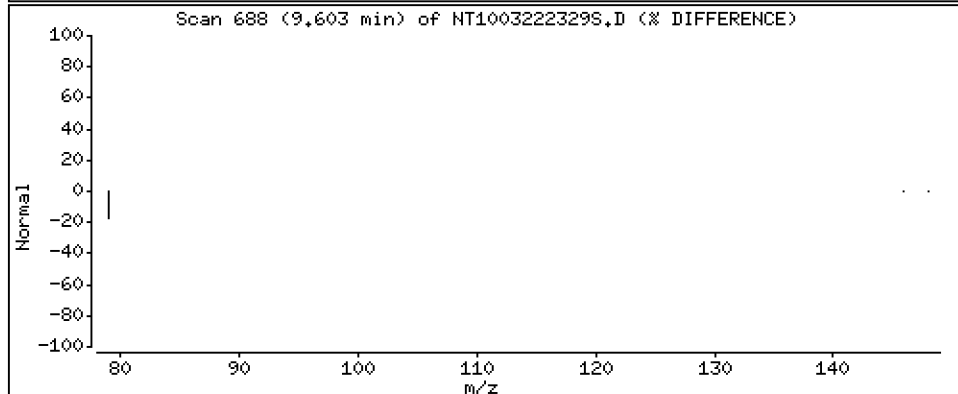
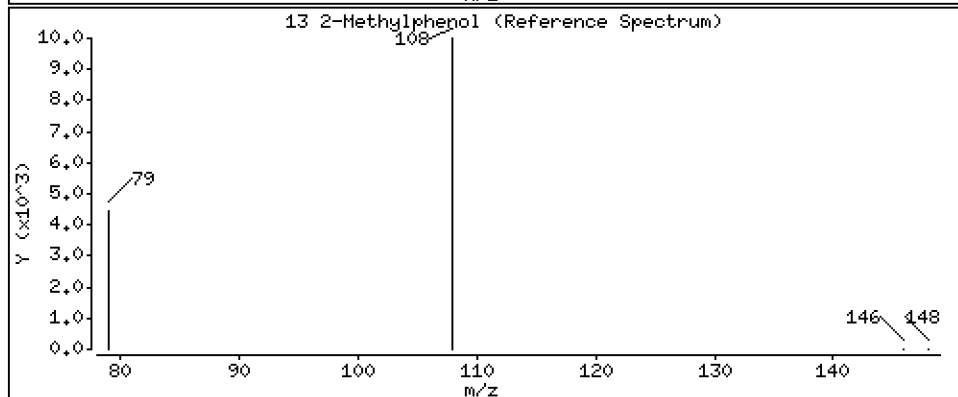
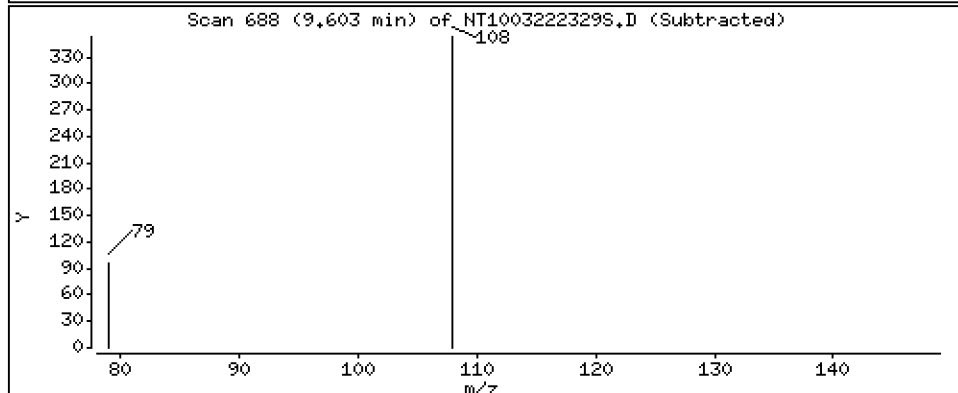
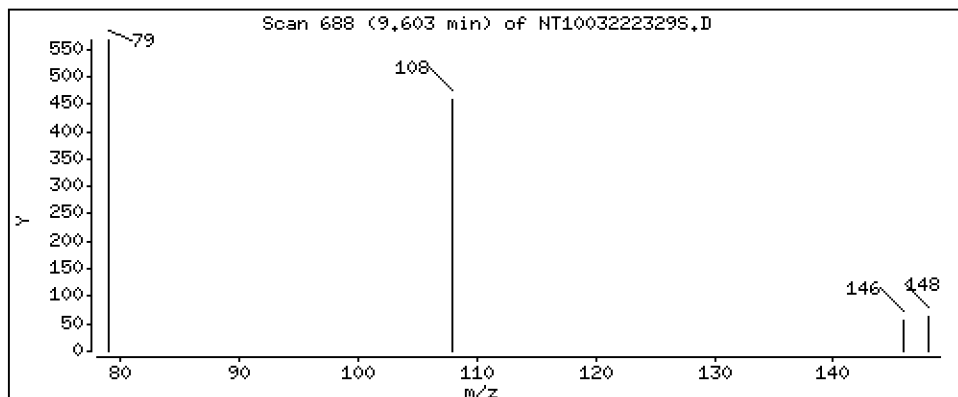
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

13 2-Methylphenol

Concentration: 0.01376 ug/L



Date : 23-MAR-2023 10:49

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-01

Volume Injected (uL): 1.0

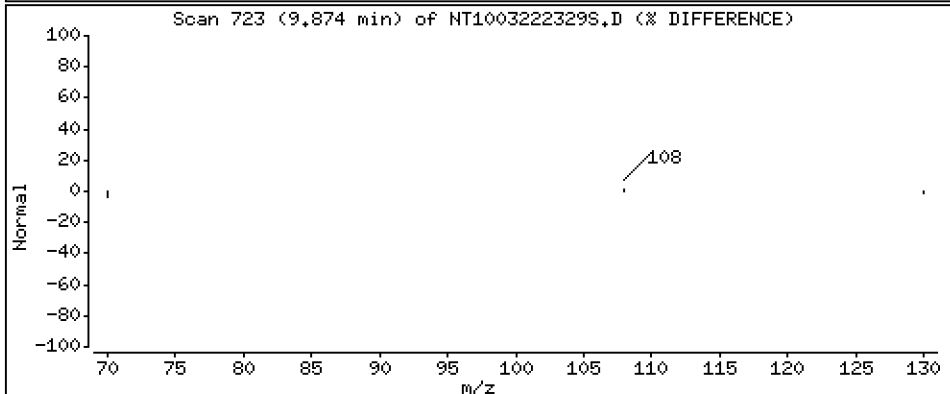
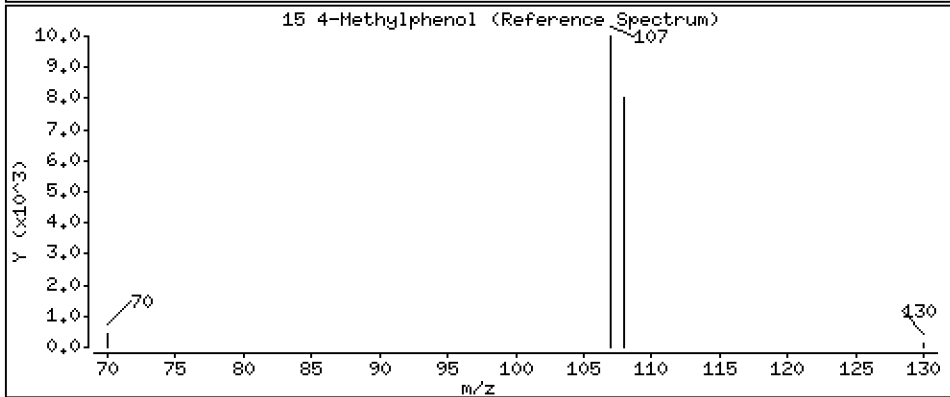
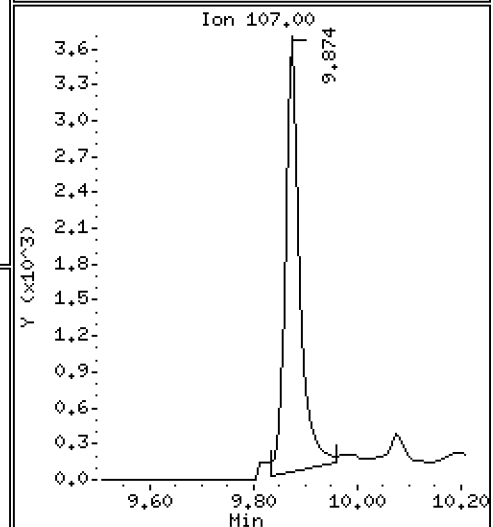
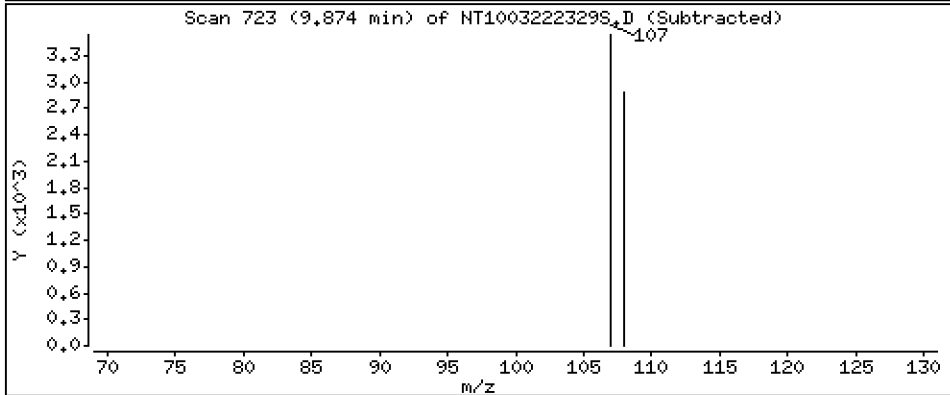
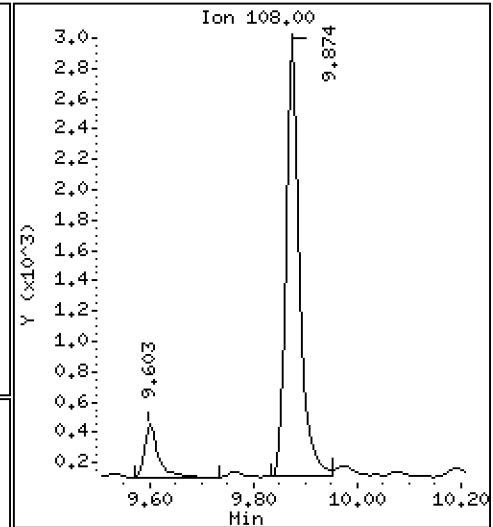
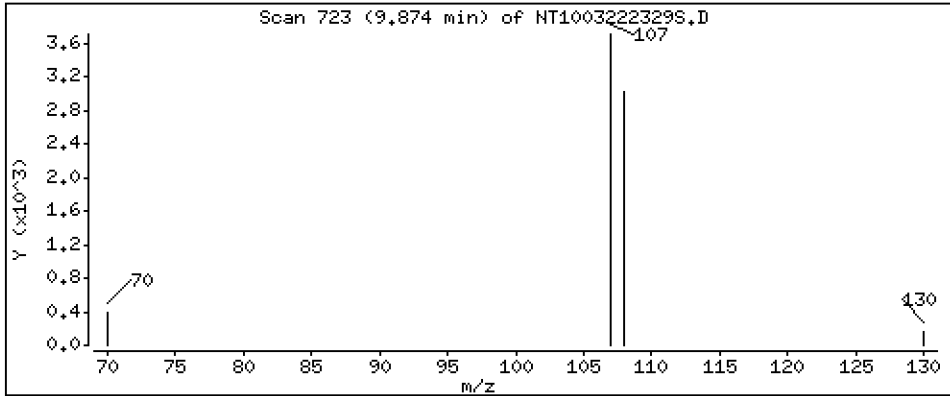
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 0.1091 ug/L



Date : 23-MAR-2023 10:49

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-01

Volume Injected (uL): 1.0

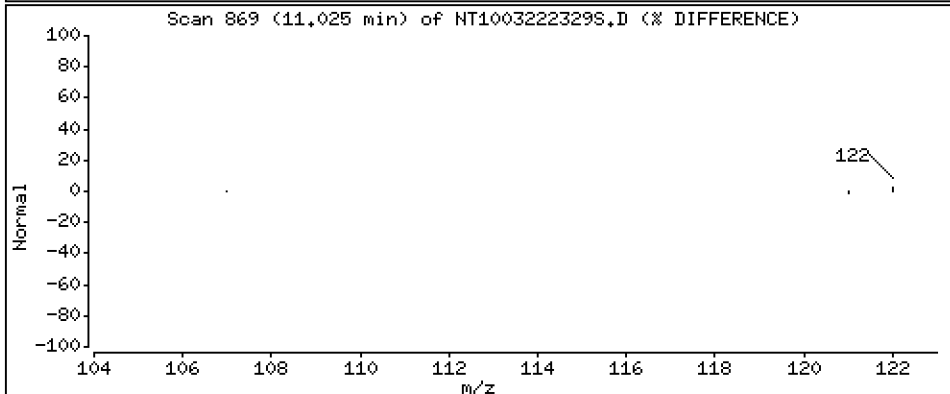
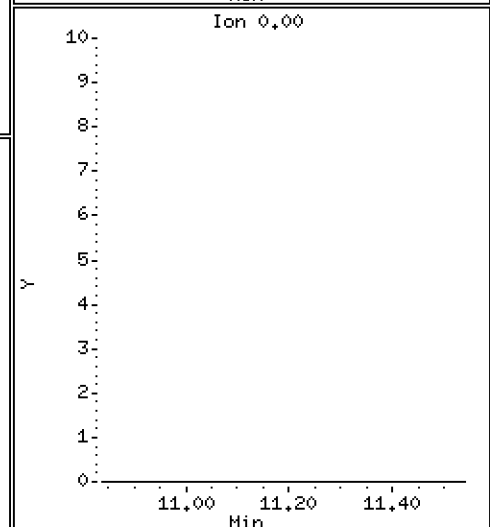
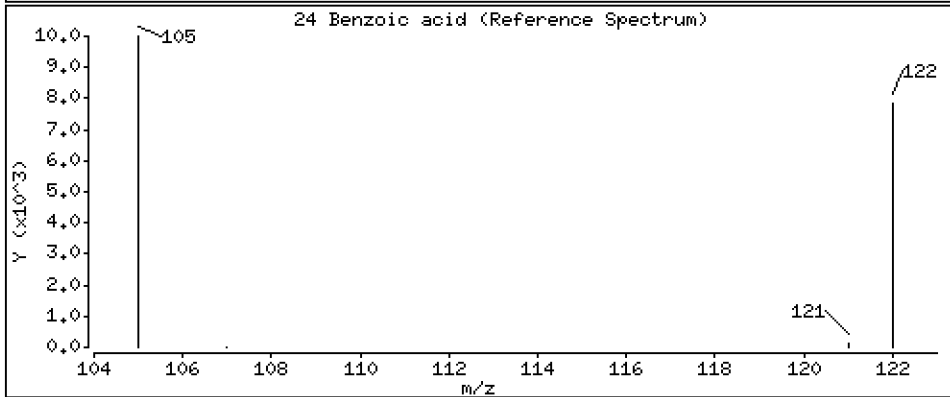
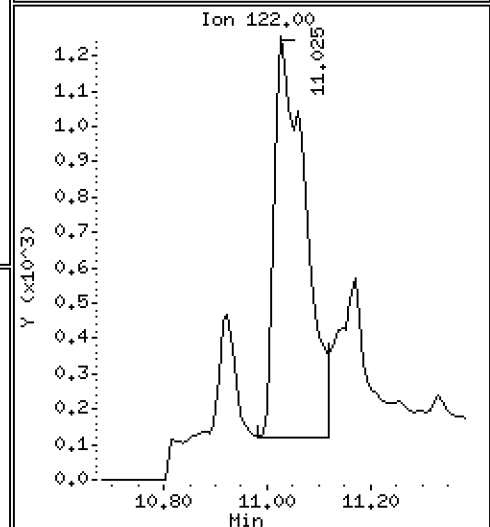
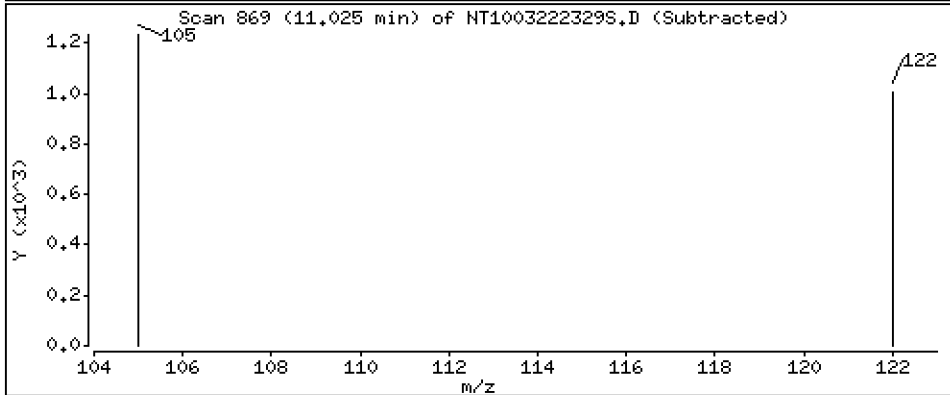
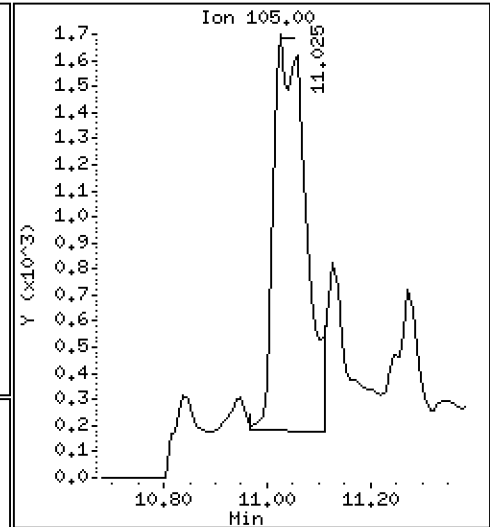
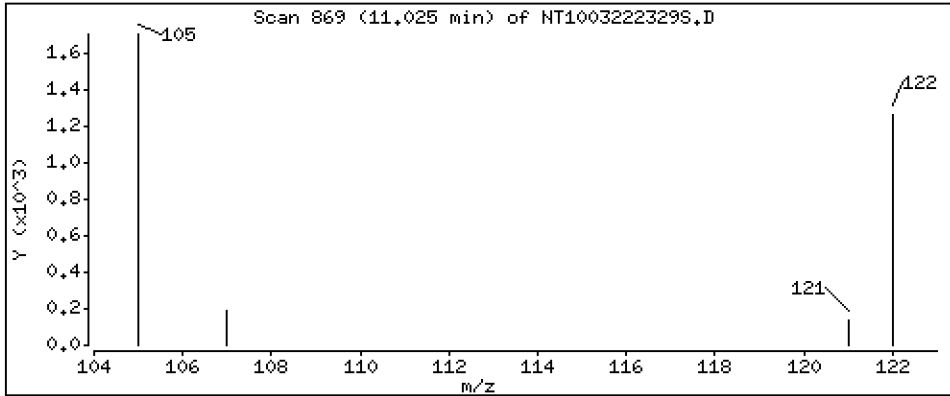
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

24 Benzoic acid

Concentration: 0,2356 ug/L



Date : 23-MAR-2023 10:49

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-01

Volume Injected (uL): 1.0

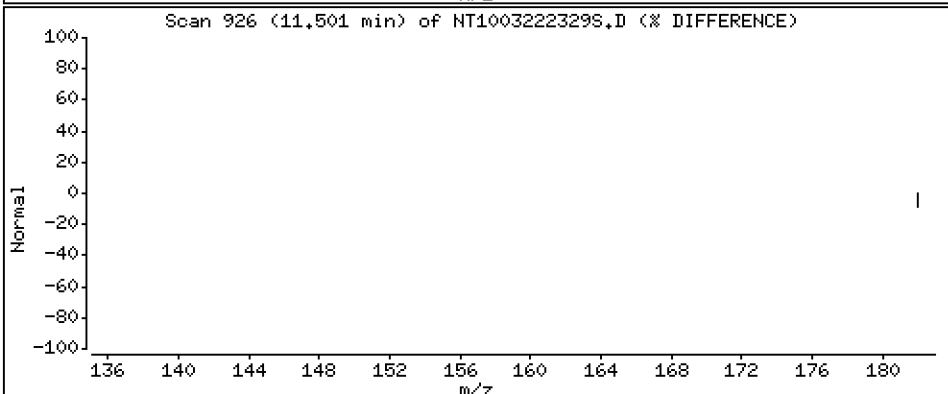
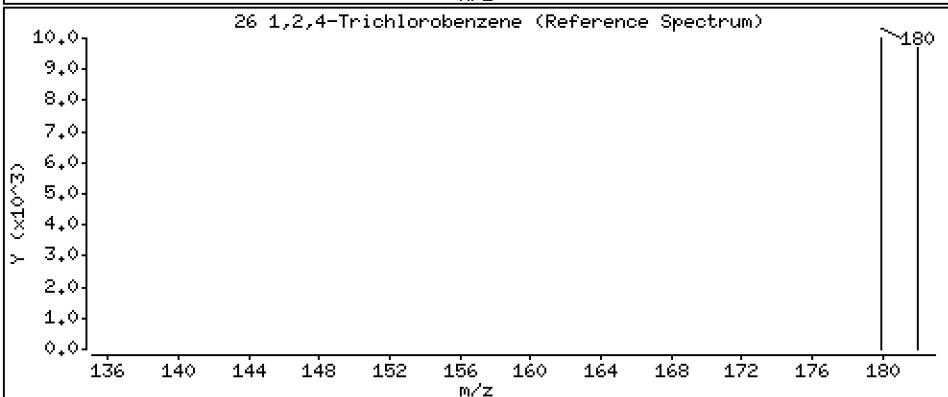
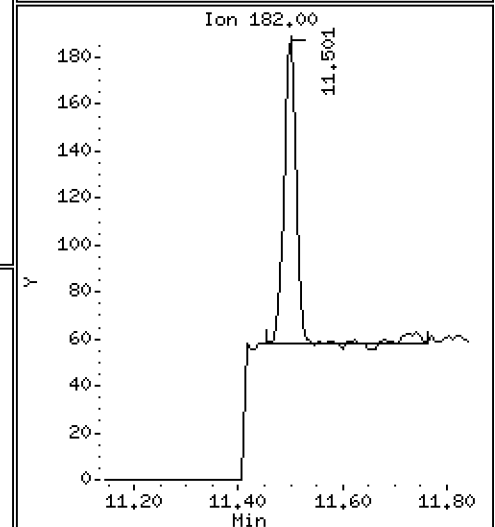
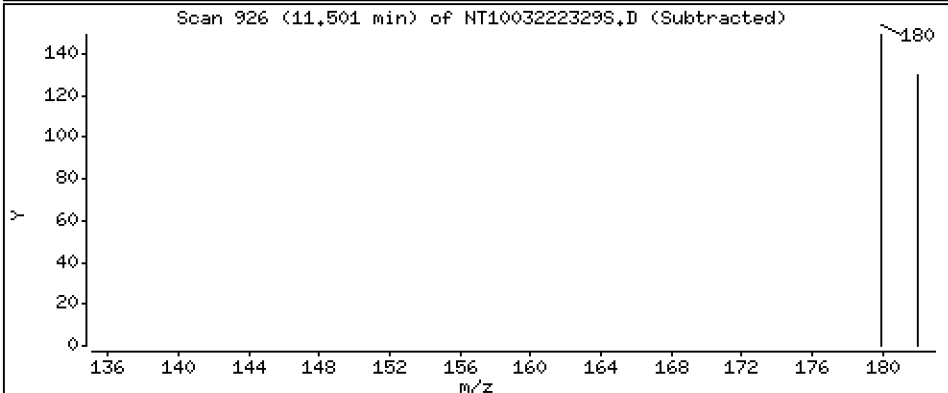
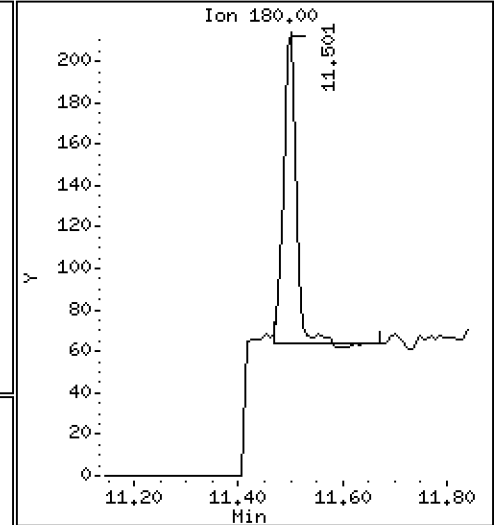
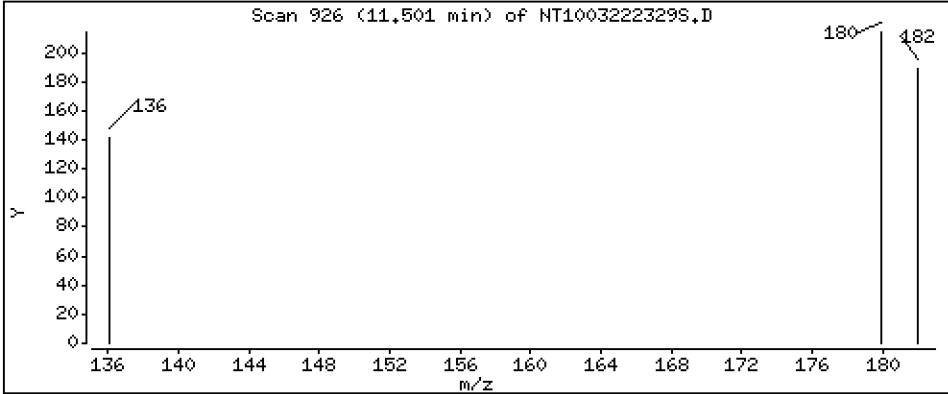
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 0,004916 ug/L



Date : 23-MAR-2023 10:49

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-01

Volume Injected (uL): 1.0

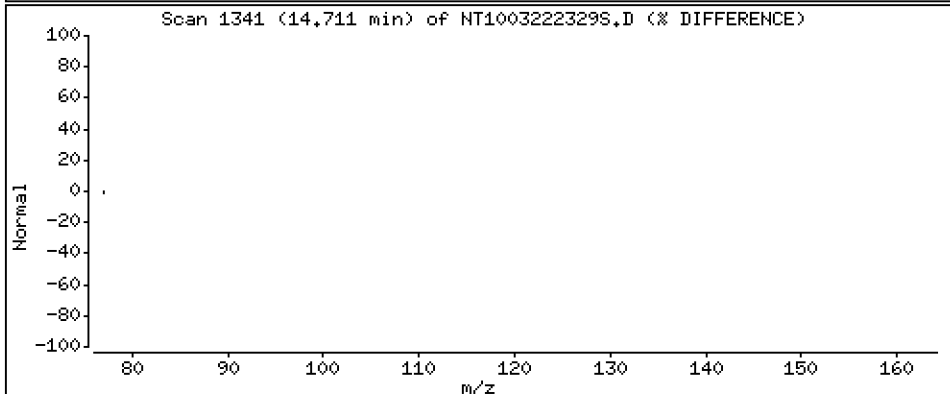
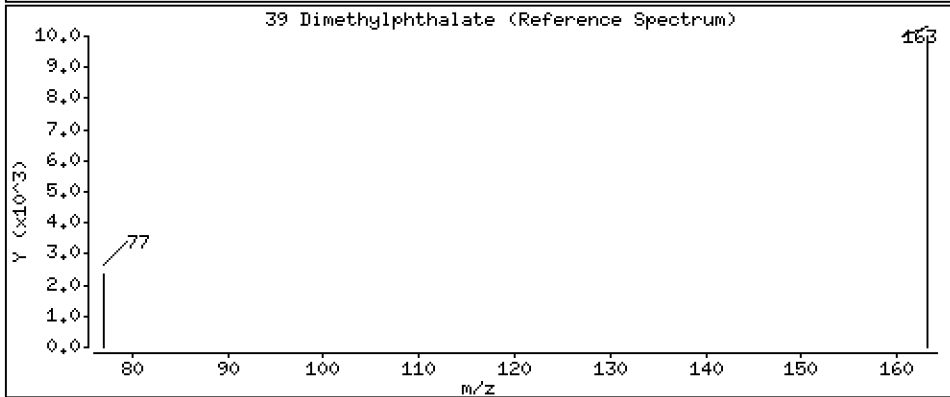
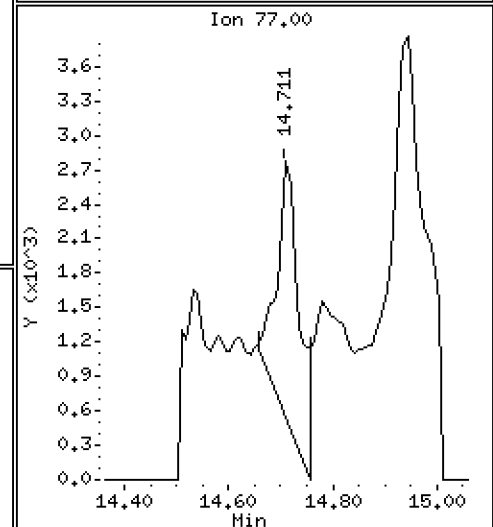
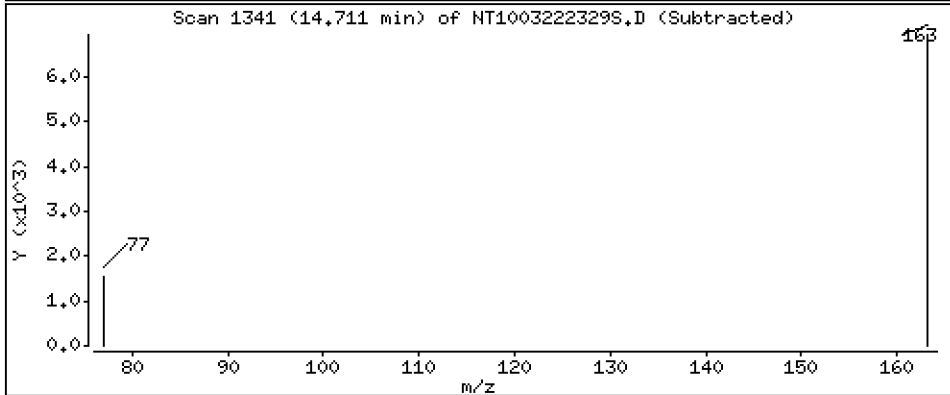
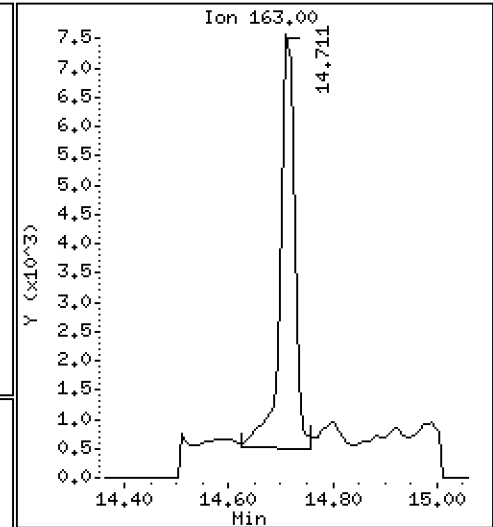
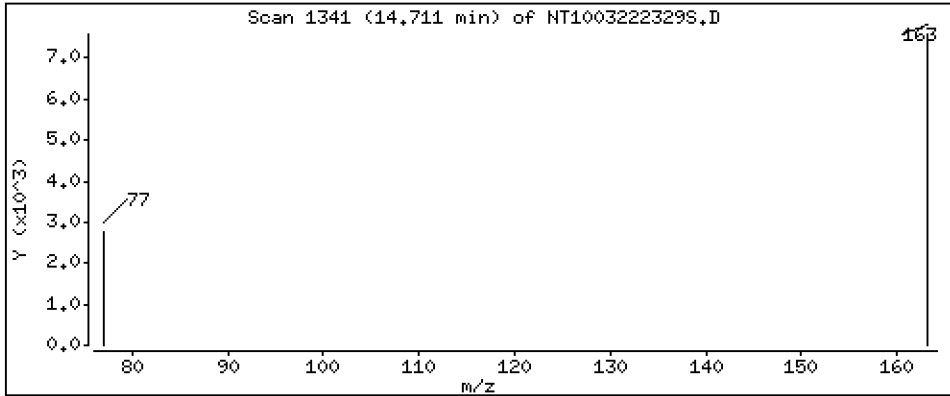
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 0,1448 ug/L



Date : 23-MAR-2023 10:49

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-01

Volume Injected (uL): 1.0

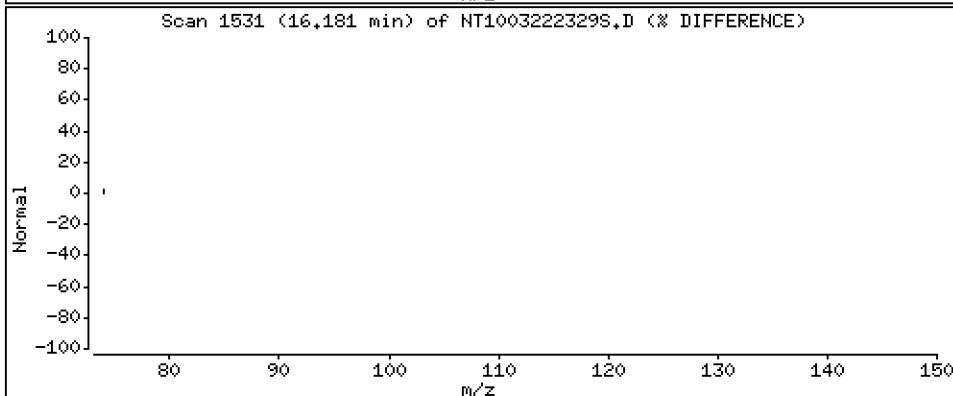
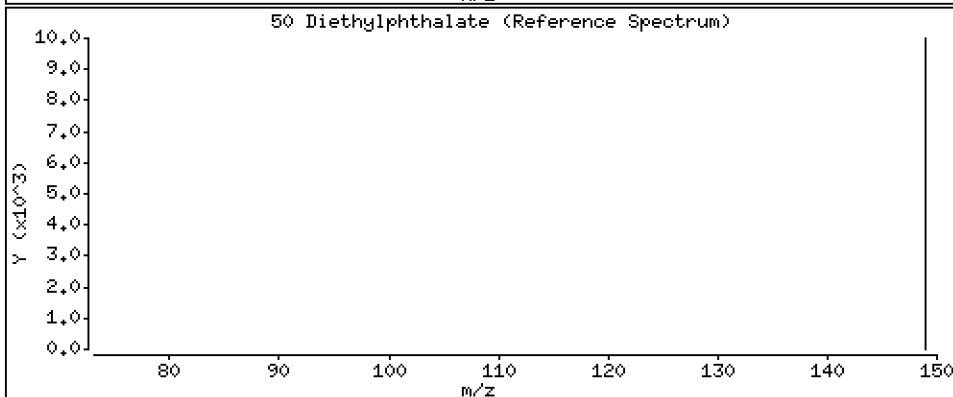
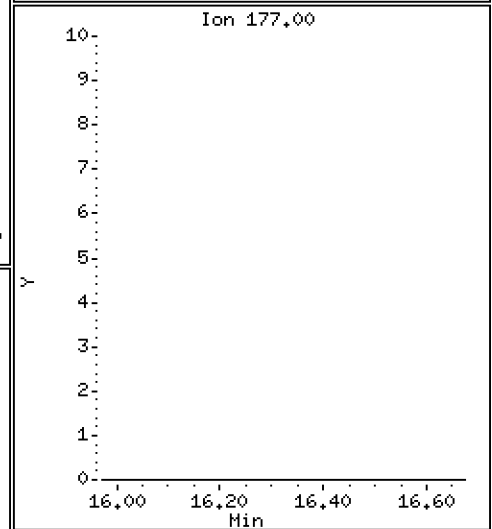
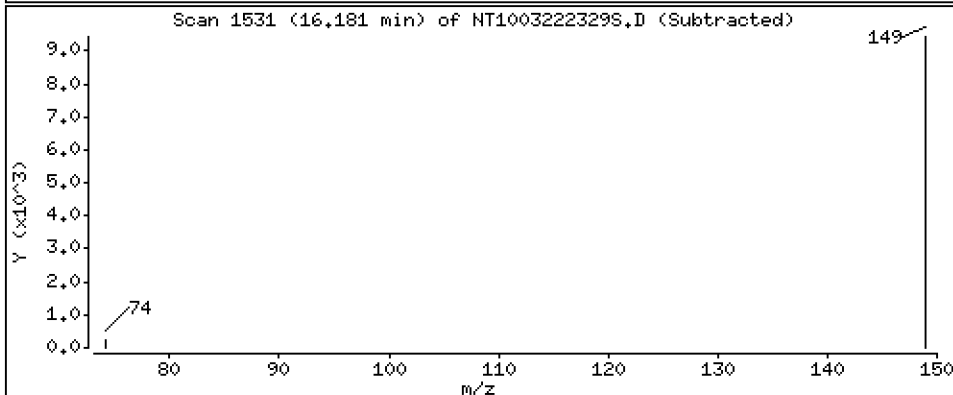
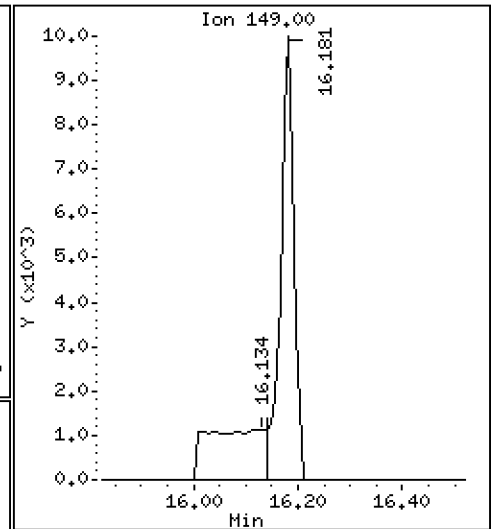
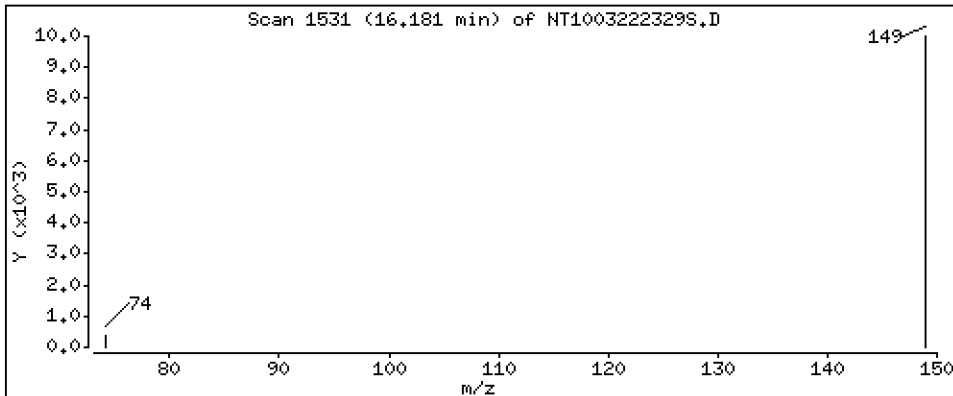
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 0,1913 ug/L



Date : 23-MAR-2023 10:49

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-01

Volume Injected (uL): 1.0

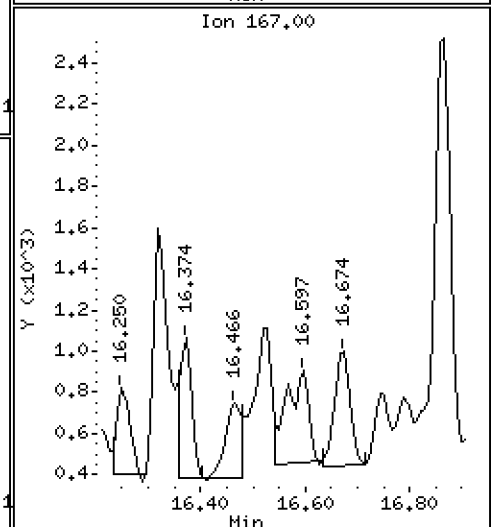
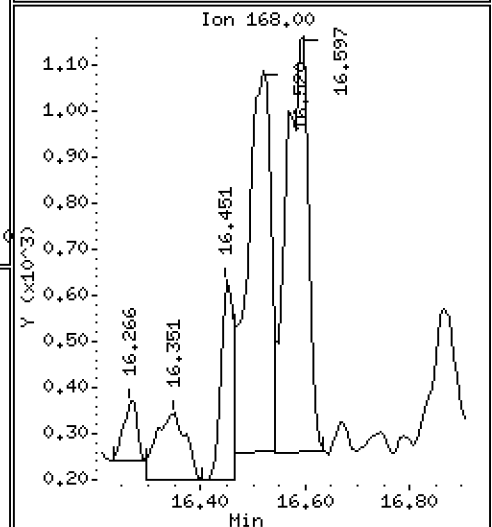
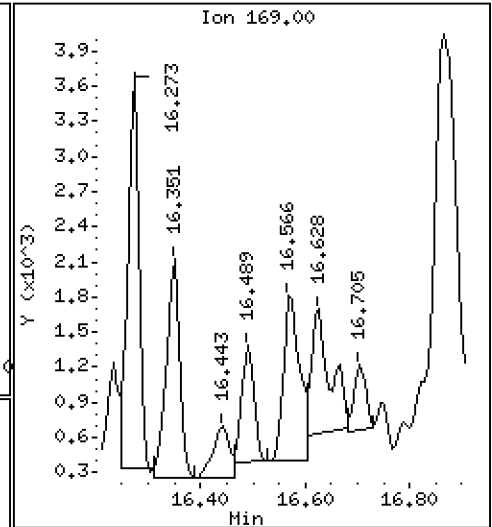
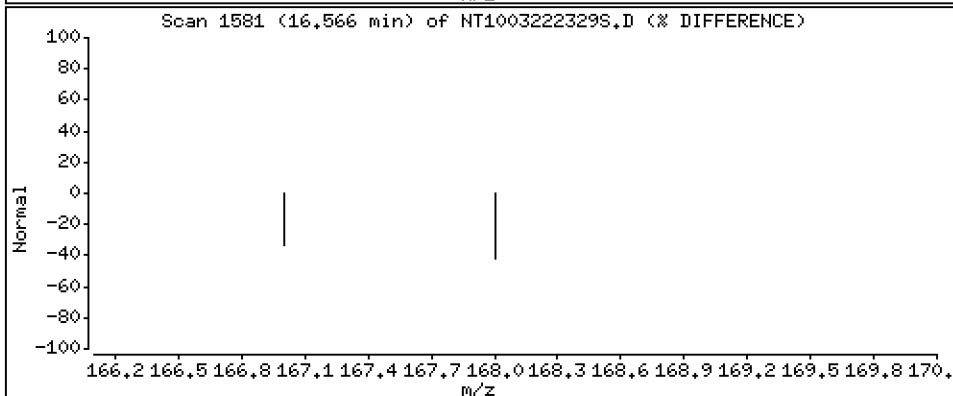
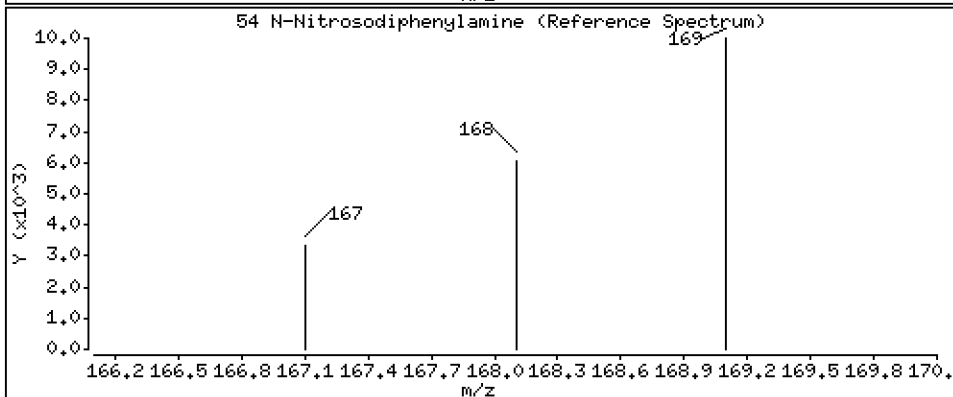
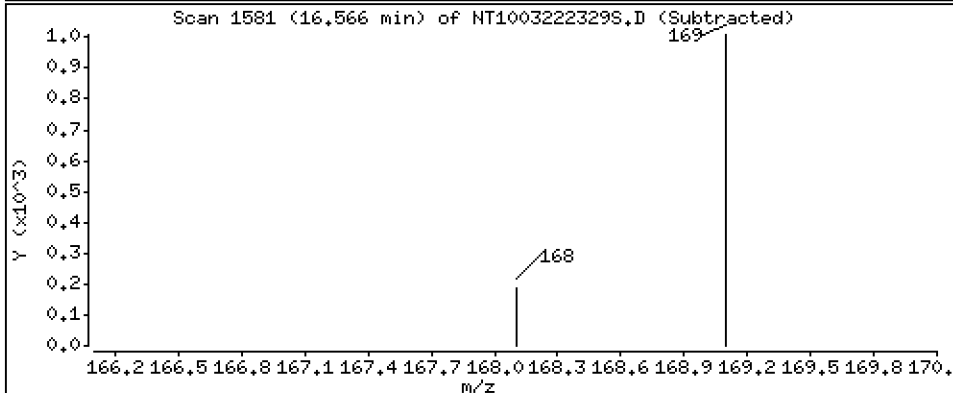
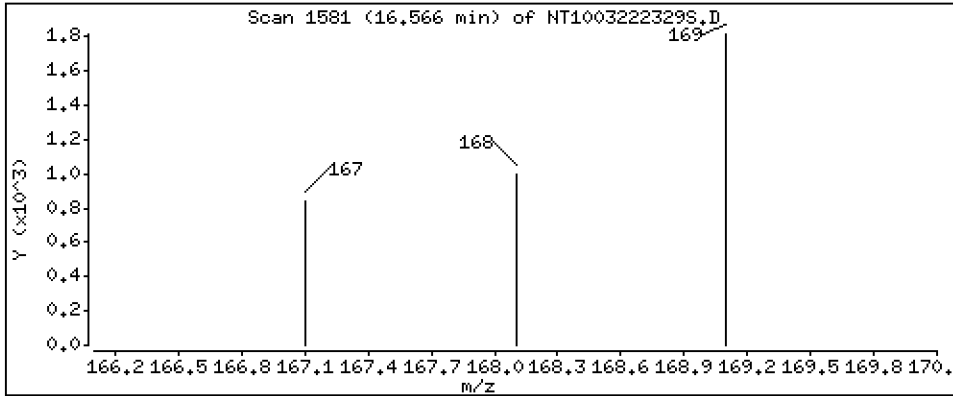
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

54 N-Nitrosodiphenylamine

Concentration: 0.03737 ug/L



Date : 23-MAR-2023 10:49

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-01

Volume Injected (uL): 1.0

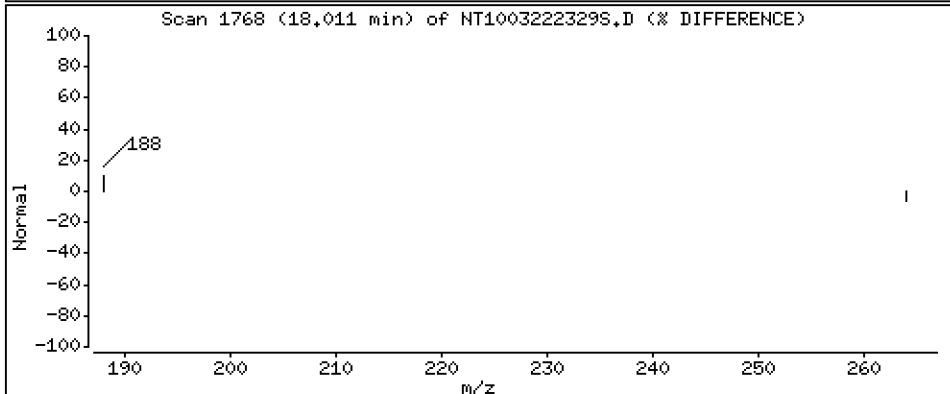
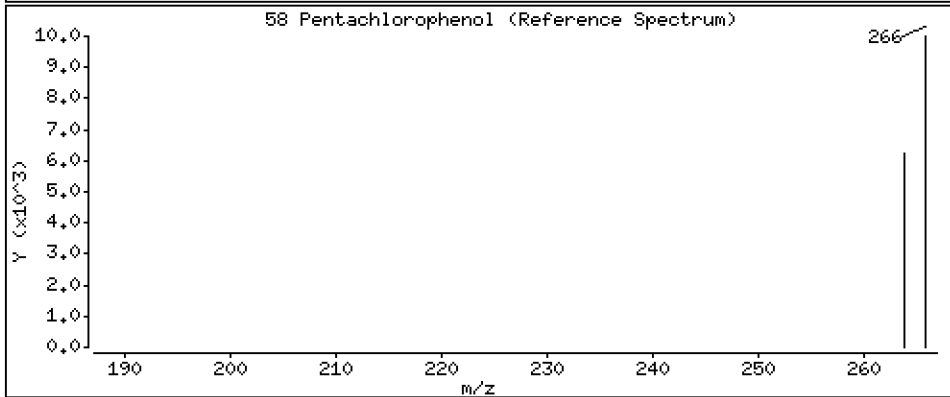
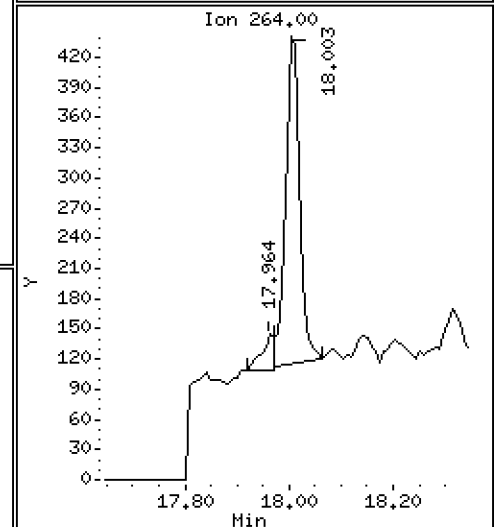
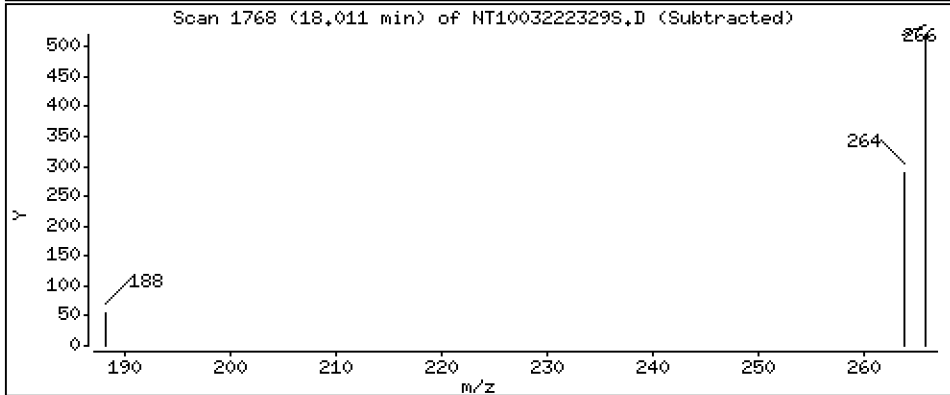
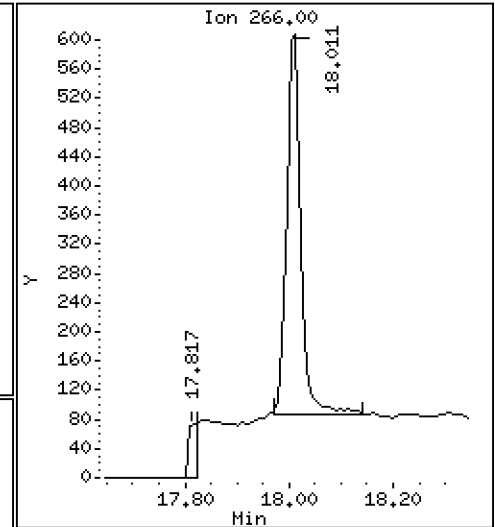
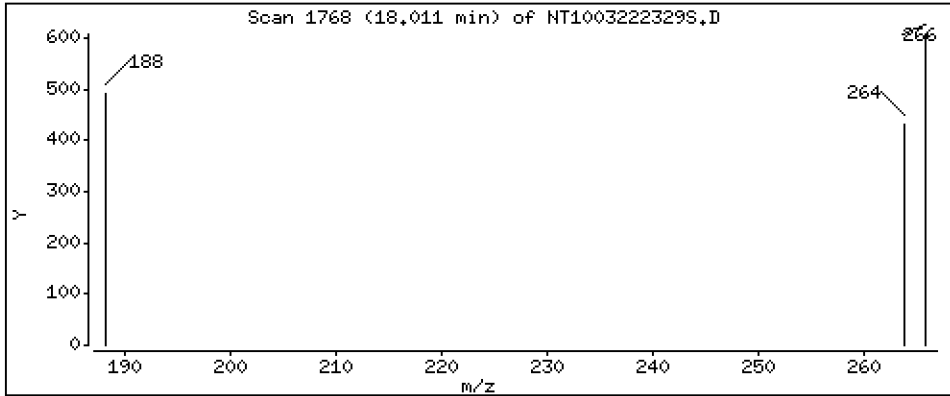
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 0,04746 ug/L



Date : 23-MAR-2023 10:49

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-01

Volume Injected (uL): 1.0

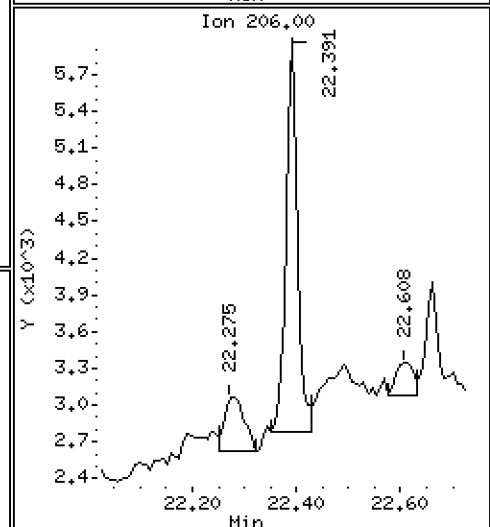
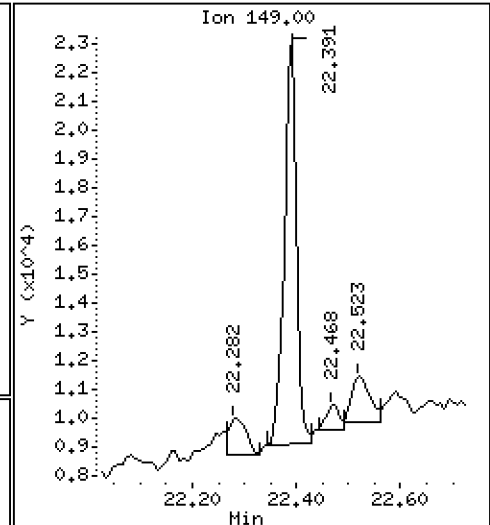
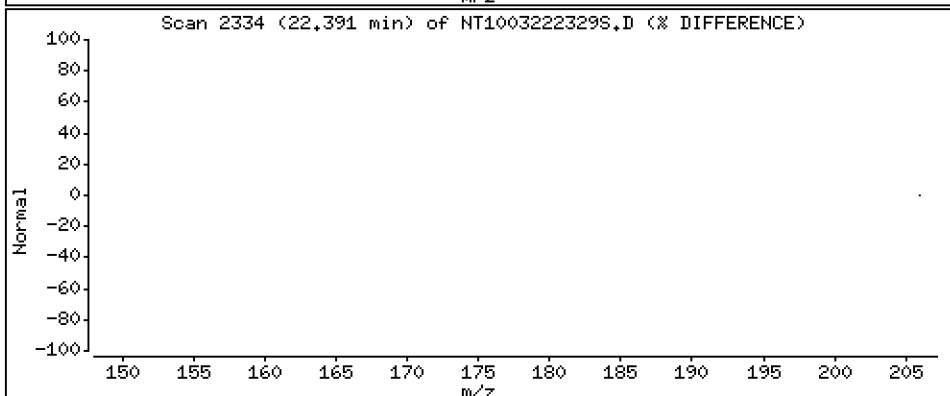
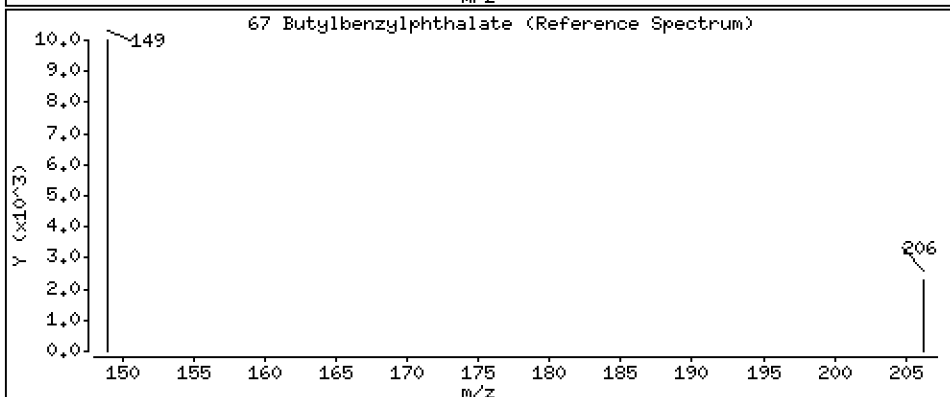
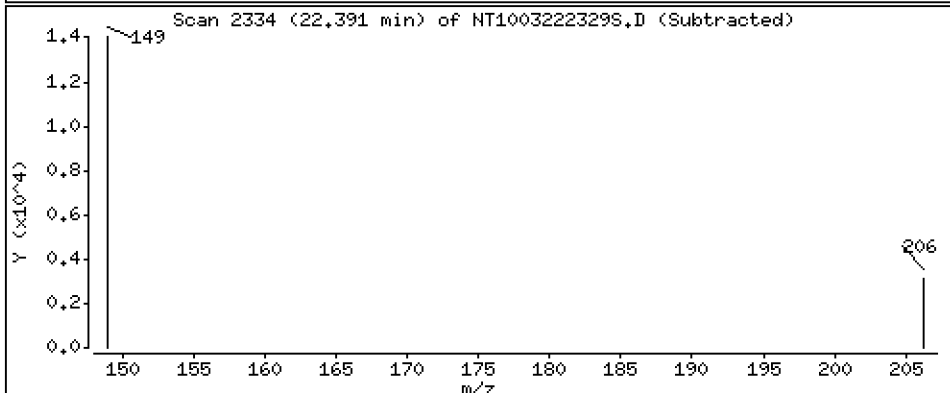
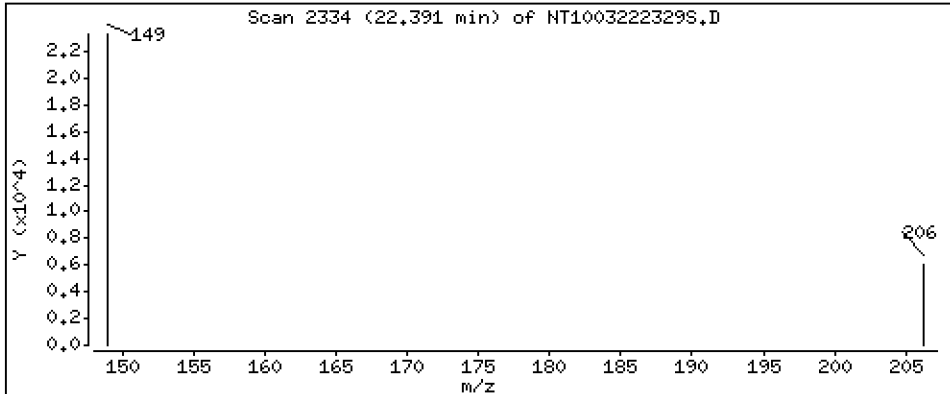
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

67 Butylbenzylphthalate

Concentration: 0.3040 ug/L



Date : 23-MAR-2023 10:49

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-01

Volume Injected (uL): 1.0

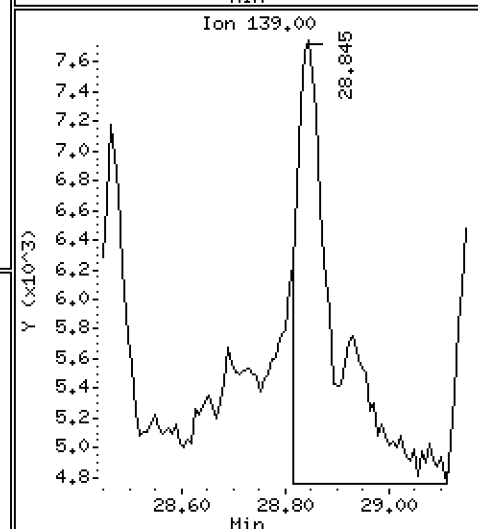
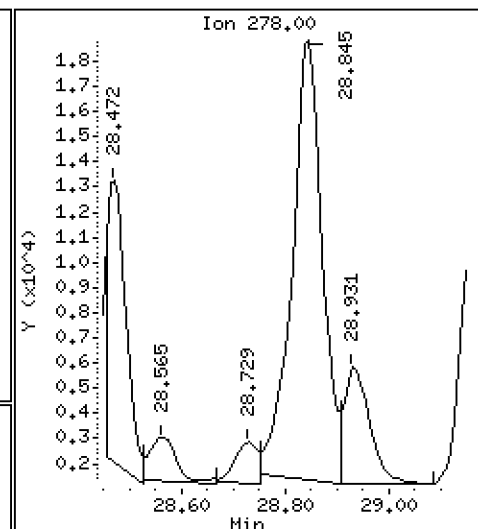
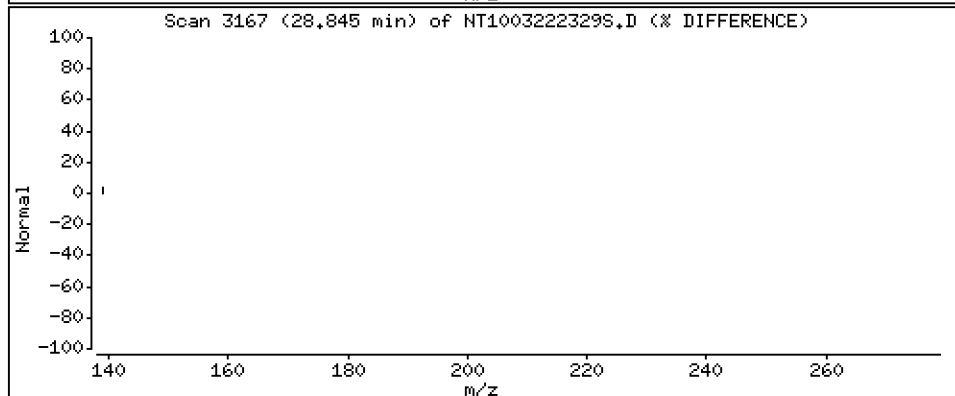
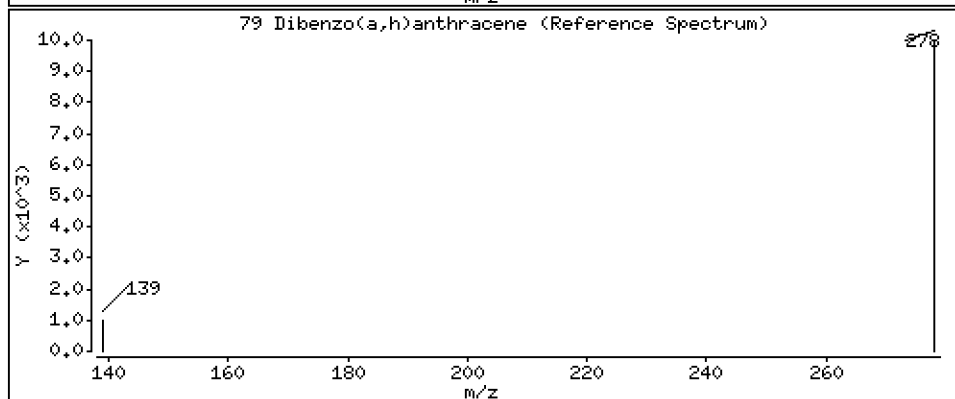
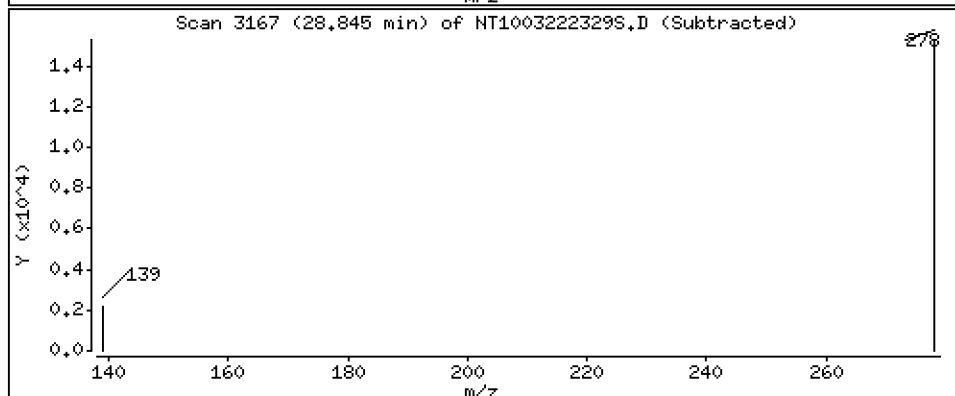
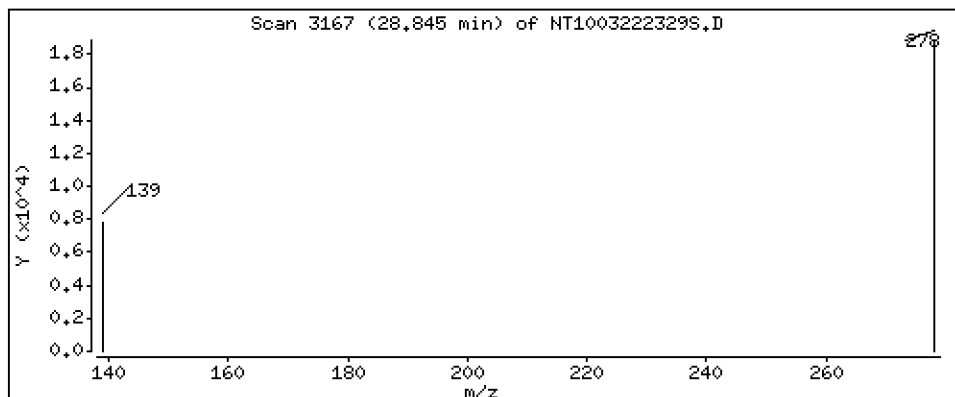
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 0,3582 ug/L



ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230322.b\SIM.b\NT1003222329S.D
 Lab Smp Id: 23A0180-01
 Inj Date : 23-MAR-2023 10:49 MS Autotune Date: 16-JAN-2023 17:42
 Operator : JGR Inst ID: nt10.i
 Smp Info : 23A0180-01
 Misc Info :
 Comment :
 Method : \\target\share\chem3\nt10.i\20230322.b\SIM.b\SIMABN2.m
 Meth Date : 25-Mar-2023 16:11 yev Quant Type: ISTD
 Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D
 Als bottle: 24
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: PSSDA.sub
 Target Version: 4.14
 Processing Host: ORGDATA102

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

| Name | Value | Description |
|---------------|----------|---------------------------------|
| DF | 1.000 | Dilution Factor |
| Vo | 1000.000 | Volume of sample extracted (mL) |
| Vt | 1000.000 | Volume of final extract (uL) |
| Vi | 1.000 | Volume injected (uL) |
| Uf | 1.000 | ng unit correction factor |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT | SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|-------------------------------|-------|-----|------------------------|--------|---------|----------|----------------|-------------|
| | | | | | | | ON-COLUMN | FINAL |
| | MASS | | | | | | (ug/mL) | (ug/L) |
| \$ 1 2-Fluorophenol | 112 | | 6.872 | 6.856 | (0.756) | 274895 | 5.58178 | 5.582 (R) |
| 3 Phenol | 94 | | 8.487 | 8.471 | (0.934) | 75560 | 1.11831 | 1.118 |
| 7 1,3-Dichlorobenzene | 146 | | Compound Not Detected. | | | | | |
| * 8 1,4-Dichlorobenzene-d4 | 152 | | 9.090 | 9.090 | (1.000) | 162405 | 4.00000 | |
| 9 1,4-Dichlorobenzene | 146 | | 9.121 | 9.121 | (1.003) | 1541 | 0.02525 | 0.02525 (M) |
| 11 Benzyl alcohol | 79 | | 9.369 | 9.361 | (1.031) | 4031 | 0.10291 | 0.1029 (M) |
| 12 1,2-Dichlorobenzene | 146 | | Compound Not Detected. | | | | | |
| 13 2-Methylphenol | 108 | | 9.602 | 9.586 | (1.056) | 644 | 0.01376 | 0.01376 |
| 15 4-Methylphenol | 108 | | 9.874 | 9.858 | (1.086) | 5308 | 0.10911 | 0.1091 |
| 16 N-Nitroso-di-n-propylamine | 70 | | Compound Not Detected. | | | | | |
| 22 2,4-Dimethylphenol | 107 | | Compound Not Detected. | | | | | |
| 24 Benzoic acid | 105 | | 11.025 | 11.033 | (0.952) | 6517 | 0.23563 | 0.2356 (M) |
| 26 1,2,4-Trichlorobenzene | 180 | | 11.500 | 11.492 | (0.993) | 250 | 0.00492 | 0.004916 |
| * 27 Naphthalene-d8 | 136 | | 11.585 | 11.577 | (1.000) | 584903 | 4.00000 | |
| 30 Hexachlorobutadiene | 225 | | Compound Not Detected. | | | | | |
| 39 Dimethylphthalate | 163 | | 14.711 | 14.711 | (0.967) | 13097 | 0.14478 | 0.1448 (M) |
| * 42 Acenaphthene-d10 | 162 | | 15.206 | 15.206 | (1.000) | 286668 | 4.00000 | |
| 50 Diethylphthalate | 149 | | 16.180 | 16.172 | (1.064) | 17928 | 0.19130 | 0.1913 |
| 54 N-Nitrosodiphenylamine | 169 | | 16.566 | 16.558 | (0.907) | 3164 | 0.03737 | 0.03737 |
| 57 Hexachlorobenzene | 284 | | Compound Not Detected. | | | | | |

| Compounds | QUANT | SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|---------------------------|-------|-----|------------------------|--------|---------|----------|----------------|-----------|
| | | | | | | | ON-COLUMN | FINAL |
| | MASS | | | | | | (ug/mL) | (ug/L) |
| ===== | ===== | | ===== | ===== | ===== | ===== | ===== | ===== |
| 58 Pentachlorophenol | 266 | | 18.010 | 17.995 | (0.986) | 993 | 0.04746 | 0.04746 |
| * 59 Phenanthrene-d10 | 188 | | 18.273 | 18.258 | (1.000) | 630971 | 4.00000 | |
| \$ 66 Terphenyl-d14 | 244 | | 21.453 | 21.438 | (0.918) | 522896 | 5.60424 | 5.604 (R) |
| 67 Butylbenzylphthalate | 149 | | 22.390 | 22.375 | (0.958) | 22952 | 0.30403 | 0.3040 |
| * 69 Chrysene-d12 | 240 | | 23.374 | 23.350 | (1.000) | 572641 | 4.00000 | |
| * 77 Perylene-d12 | 264 | | 26.076 | 26.037 | (1.000) | 618527 | 4.00000 | |
| 79 Dibenzo(a,h)anthracene | 278 | | 28.845 | 28.798 | (1.106) | 72585 | 0.35816 | 0.3582 |
| 90 N-Nitrosodimethylamine | 74 | | Compound Not Detected. | | | | | |

QC Flag Legend

- R - Spike/Surrogate failed recovery limits.
- M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i
 Lab File ID: NT1003222329S.D
 Lab Smp Id: 23A0180-01
 Analysis Type: SV
 Quant Type: ISTD
 Operator: JGR
 Method File: \\target\share\chem3\nt10.i\20230322.b\SIM.b\SIMABN2.m
 Misc Info:

Calibration Date: 23-MAR-2023
 Calibration Time: 03:52
 Level: LOW
 Sample Type: AIR

Test Mode:
 Use Last Continuing Calibrator.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|------------|---------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 140507 | 70254 | 281014 | 162405 | 15.58 |
| 27 Naphthalene-d8 | 499190 | 249595 | 998380 | 584903 | 17.17 |
| 42 Acenaphthene-d10 | 250303 | 125152 | 500606 | 286668 | 14.53 |
| 59 Phenanthrene-d10 | 496896 | 248448 | 993792 | 630971 | 26.98 |
| 69 Chrysene-d12 | 465837 | 232919 | 931674 | 572641 | 22.93 |
| 77 Perylene-d12 | 551078 | 275539 | 1102156 | 618527 | 12.24 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 9.09 | 8.59 | 9.59 | 9.09 | 0.00 |
| 27 Naphthalene-d8 | 11.58 | 11.08 | 12.08 | 11.59 | 0.07 |
| 42 Acenaphthene-d10 | 15.21 | 14.71 | 15.71 | 15.21 | 0.00 |
| 59 Phenanthrene-d10 | 18.26 | 17.76 | 18.76 | 18.27 | 0.09 |
| 69 Chrysene-d12 | 23.35 | 22.85 | 23.85 | 23.37 | 0.10 |
| 77 Perylene-d12 | 26.04 | 25.54 | 26.54 | 26.08 | 0.15 |

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

REVIEW SUMMARY FOR FILE - NT1003222329S.D

Lab ID: 23A0180-01

nt10.i, 20230322.b\SIM.b\SIMABN2.m, 23-MAR-2023 10:49

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

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

NONE

RRT check based on Ccal File: SIM.b/NT1003222318S.D

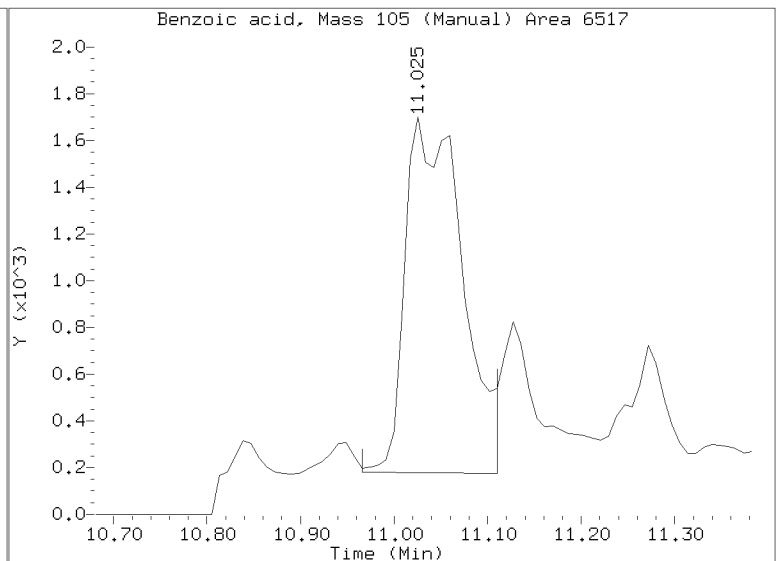
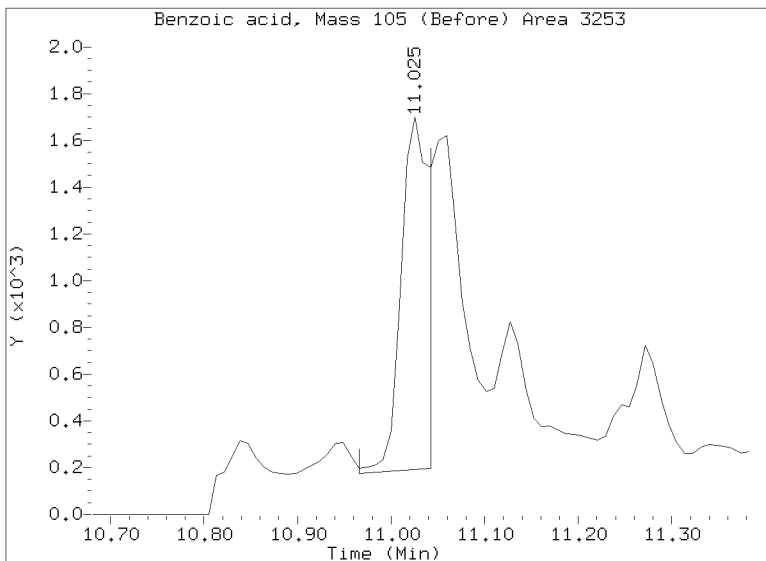
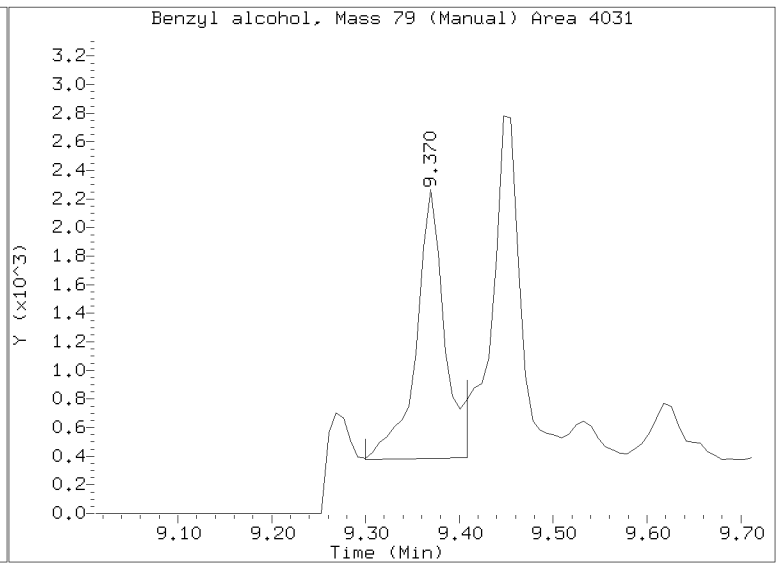
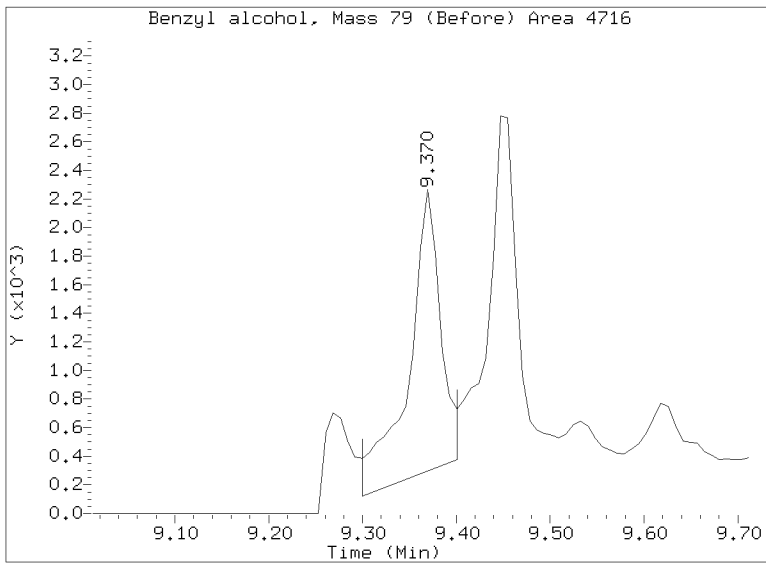
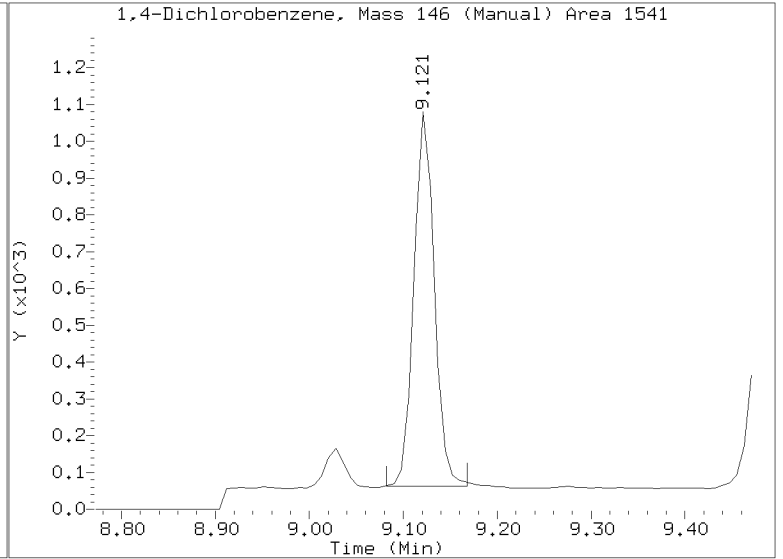
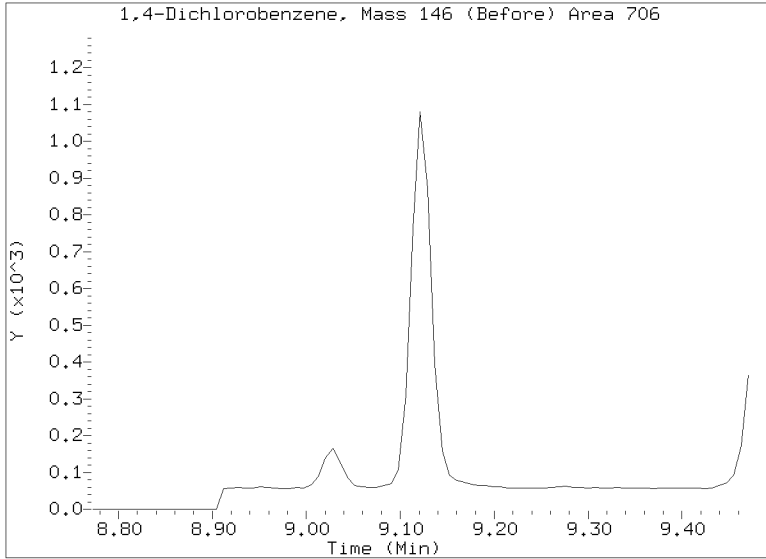
On Column LOD for nt10.i, SIM.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

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

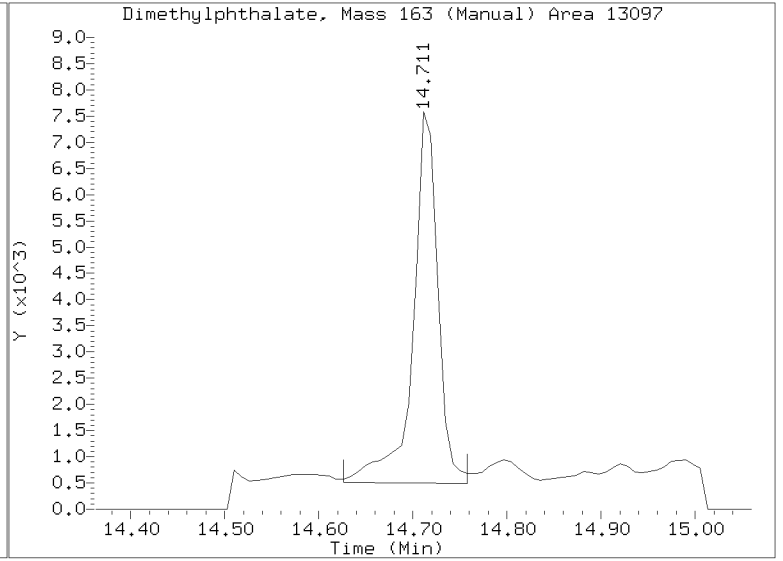
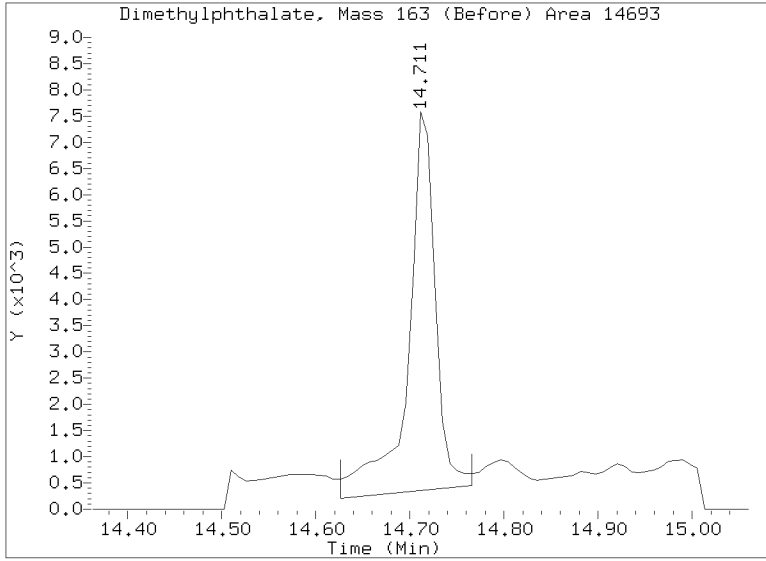
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230322.b/SIM.b/NT1003222329S.D
Injection Date: 23-MAR-2023 10:49
Lab ID:23A0180-01 Client ID:
Report Date: 03/25/2023 16:12



Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230322.b/SIM.b/NT1003222329S.D
Injection Date: 23-MAR-2023 10:49
Lab ID:23A0180-01 Client ID:
Report Date: 03/25/2023 16:12





Form I
ORGANIC ANALYSIS DATA SHEET
EPA 8270E-SIM
SIM SVOC Organics (Dual scan list)

Laboratory: Analytical Resources, LLC

Client: Anchor OEA, LLC

Project: AOC5 MR Phase 1

Matrix: Sediment

Laboratory ID: 23A0180-02RE1 A

SDG: 23A0180

Sampled: 01/10/23 08:05

Prepared: 03/17/23 14:20

File ID: NT1003222330S.D

% Solids: 53.01

Preparation: EPA 3546 (Microwave)

Analyzed: 03/23/23 11:27

Batch: BLC0442

Sequence: SLC0407

Initial/Final: 18.99 g Wet / 1 mL

Instrument: NT10

Column: ZB-5MSi

Calibration: GC00049

Cleanups: GPC

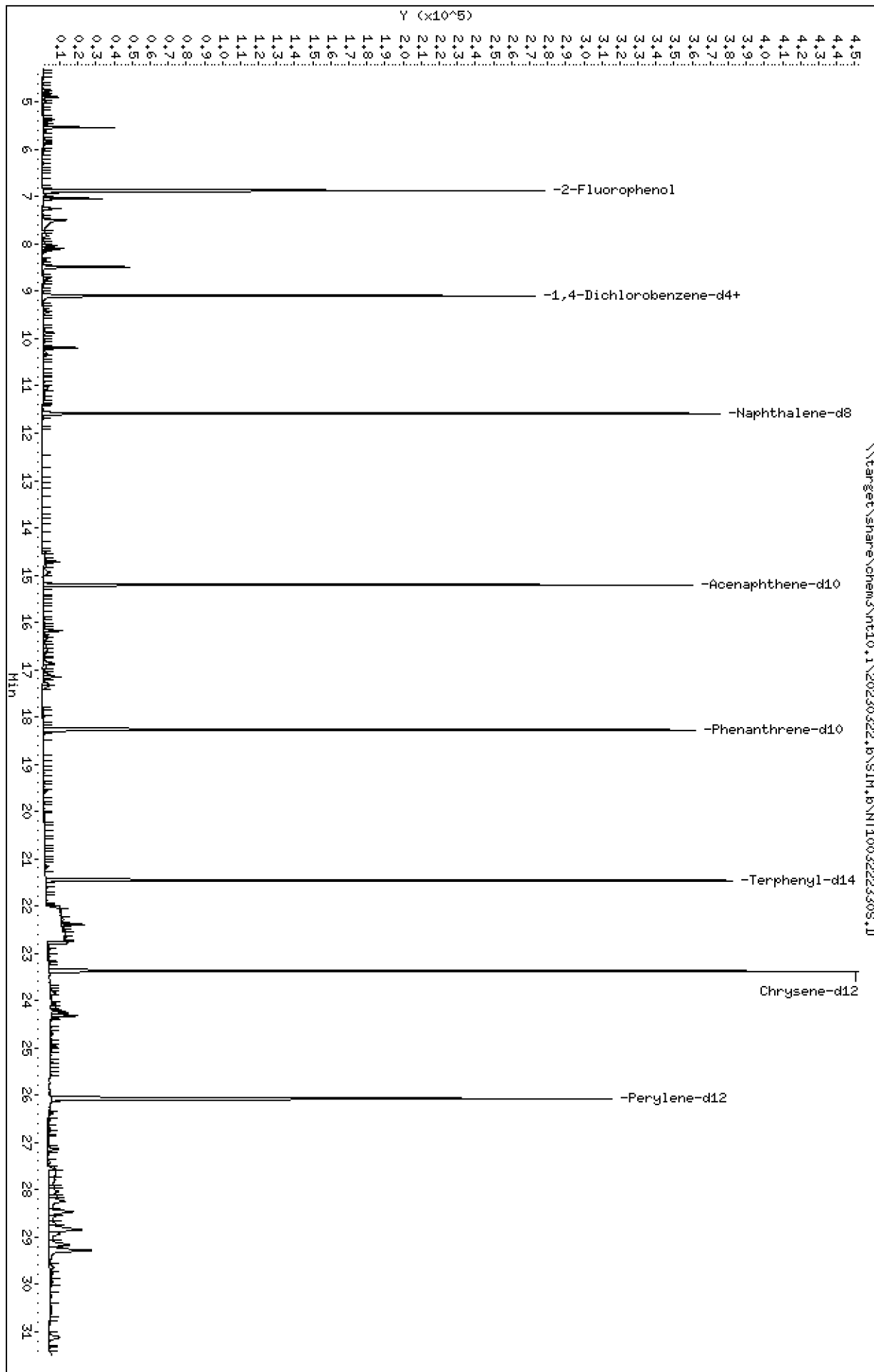
| CAS NO. | COMPOUND | DILUTION | CONC: (ug/kg dry) | Q | DL | RL |
|----------|------------------------|----------|----------------------|---|------|------|
| 106-46-7 | 1,4-Dichlorobenzene | 1 | 2.7 | J | 0.6 | 5.0 |
| 95-50-1 | 1,2-Dichlorobenzene | 1 | 5.0 | U | 0.7 | 5.0 |
| 100-51-6 | Benzyl Alcohol | 1 | 10.6 | J | 2.5 | 19.9 |
| 65-85-0 | Benzoic acid | 1 | 23.9 | J | 13.3 | 99.3 |
| 105-67-9 | 2,4-Dimethylphenol | 1 | 19.9 | U | 2.2 | 19.9 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1 | 5.0 | U | 2.7 | 5.0 |
| 86-30-6 | N-Nitrosodiphenylamine | 1 | 5.0 | U | 1.3 | 5.0 |
| 87-86-5 | Pentachlorophenol | 1 | 4.0 | J | 2.1 | 19.9 |

| SURROGATES | ADDED: (ug/kg dry) | FOUND: (ug/kg dry) | % REC | QC LIMITS | Q |
|-----------------|-----------------------|-----------------------|-------|-----------|---|
| 2-Fluorophenol | 745.04 | 556 | 74.7 | 27 - 120 | |
| p-Terphenyl-d14 | 496.69 | 562 | 113 | 37 - 120 | |

Data File: \\target\share\chem3\nt10.1\20230322.16\SIM.B\NT1003222330S.D
 Date: 23-MAR-2023 11:27
 Client ID:
 Sample Info: 23A0180-02
 Volume Injected (uL): 1.0
 Column phase: ZB-5msi

Instrument: nt10.1
 Operator: JGR
 Column diameter: 0.25

\\target\share\chem3\nt10.1\20230322.16\SIM.B\NT1003222330S.D



Date : 23-MAR-2023 11:27

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-02

Volume Injected (uL): 1.0

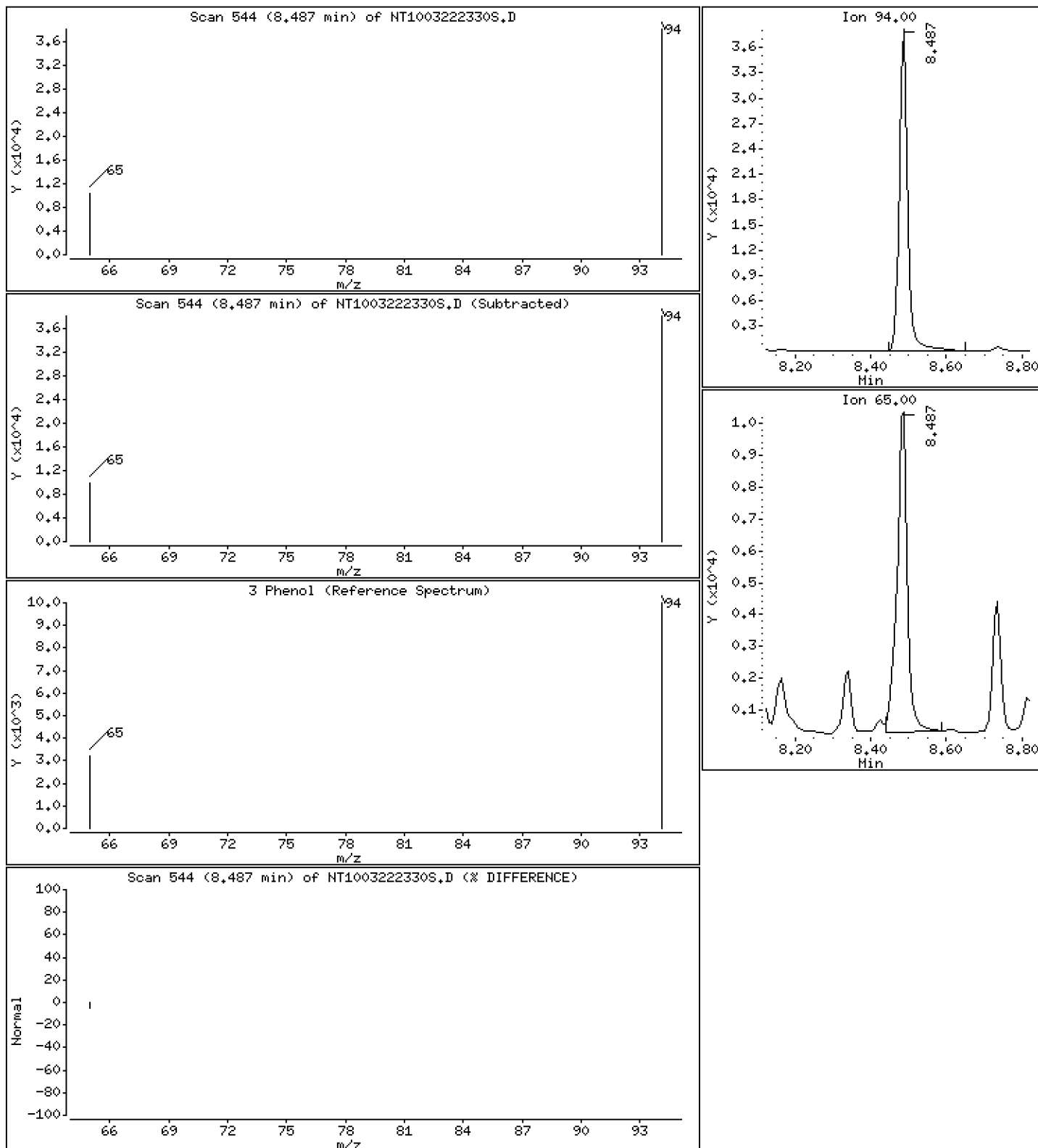
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

3 Phenol

Concentration: 0.8599 ug/L



Date : 23-MAR-2023 11:27

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-02

Volume Injected (uL): 1.0

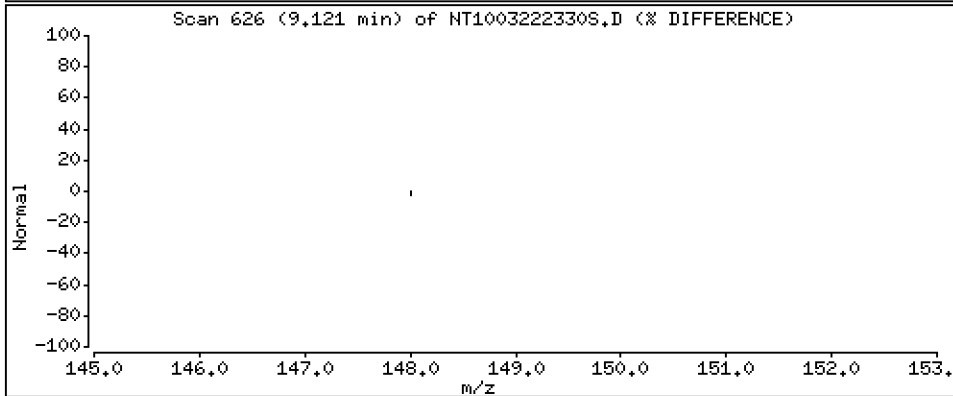
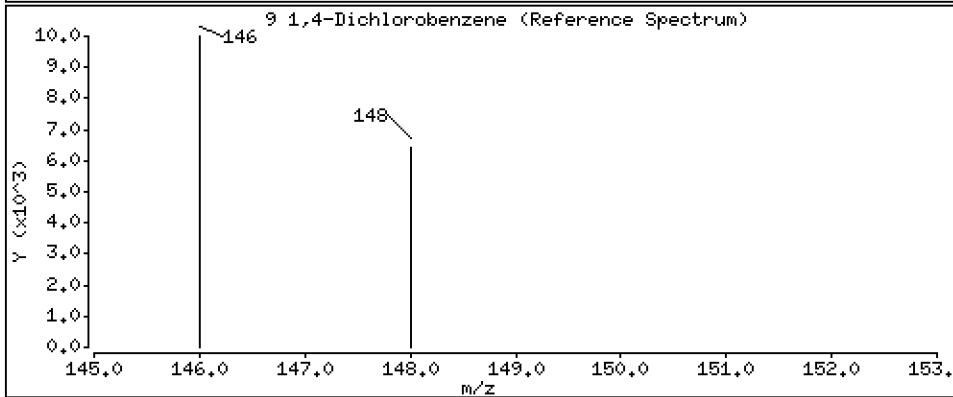
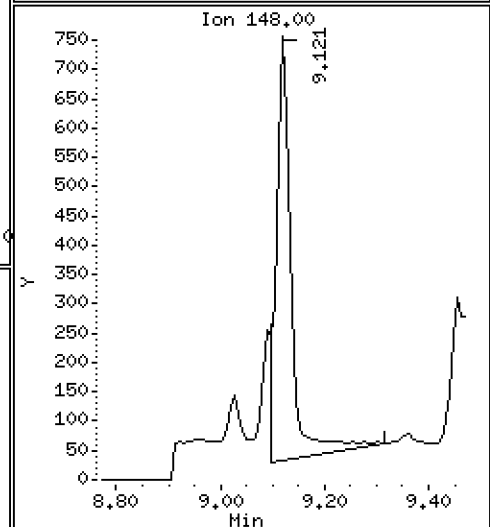
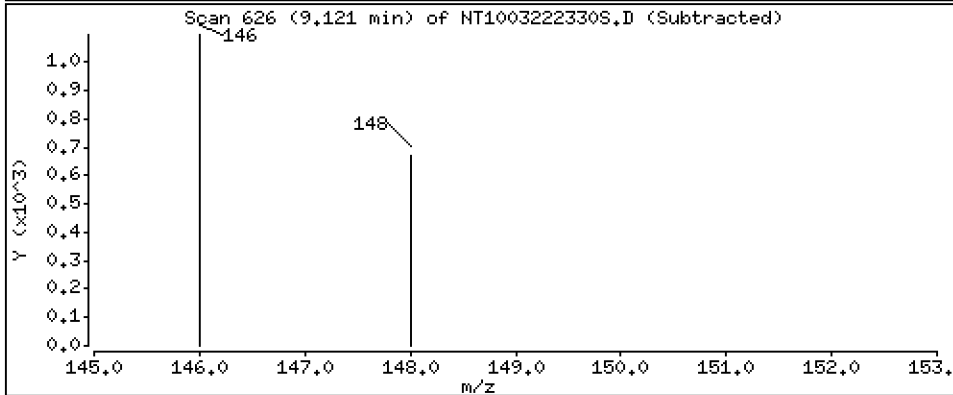
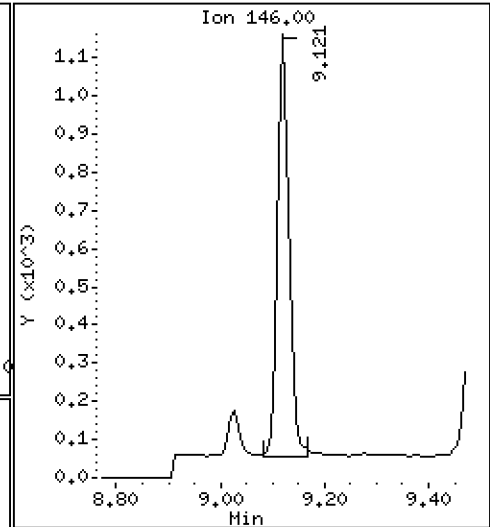
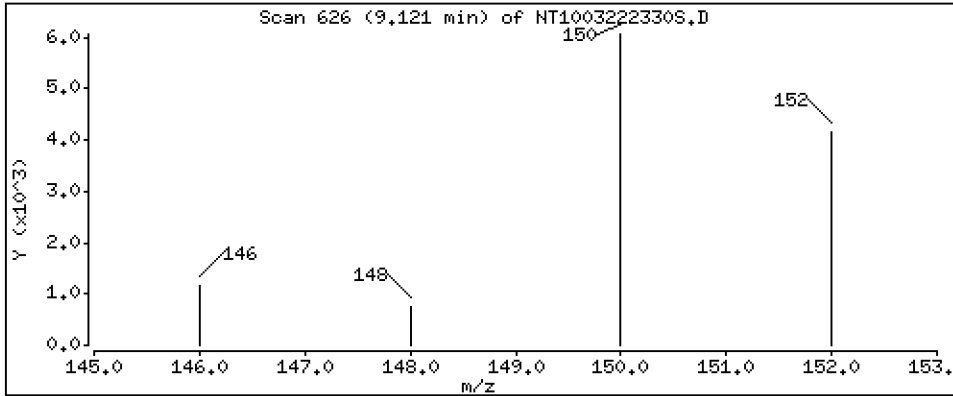
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

9 1,4-Dichlorobenzene

Concentration: 0.02694 ug/L



Date : 23-MAR-2023 11:27

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-02

Volume Injected (uL): 1.0

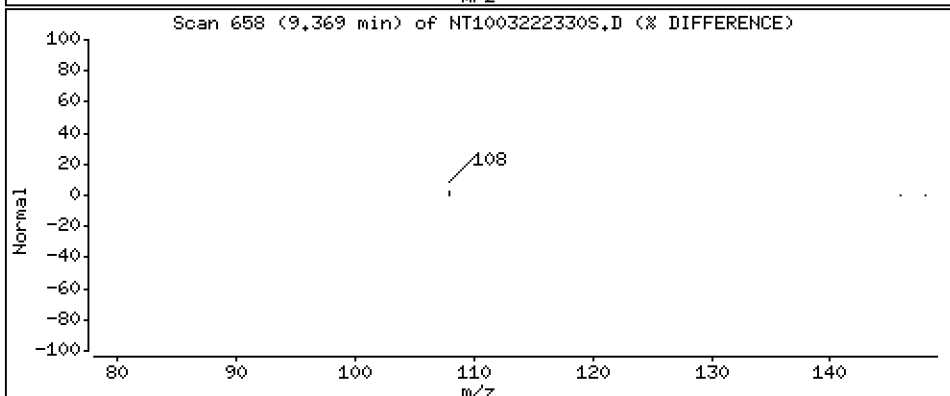
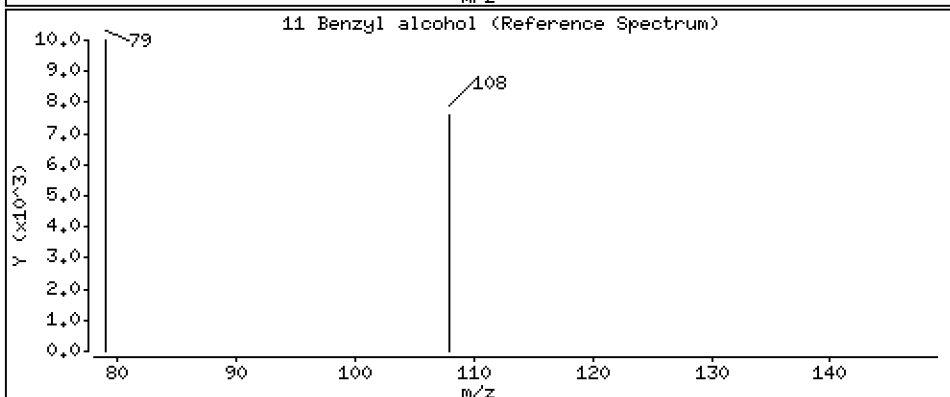
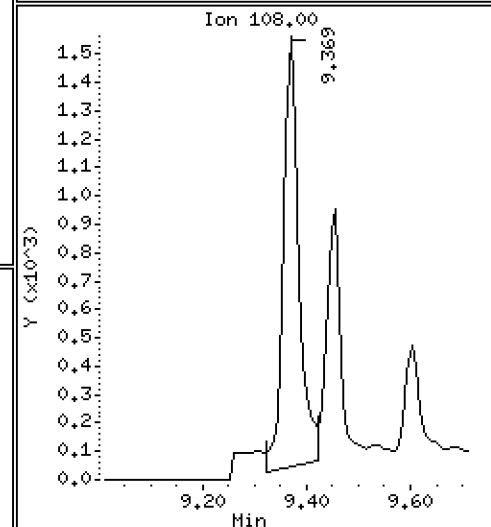
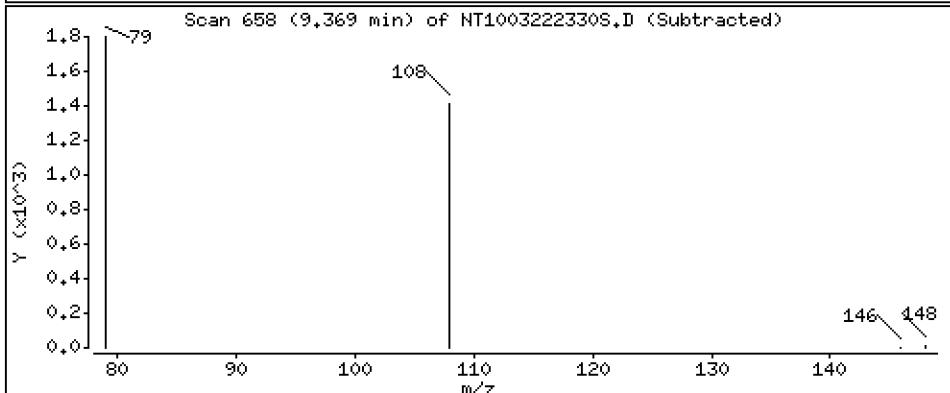
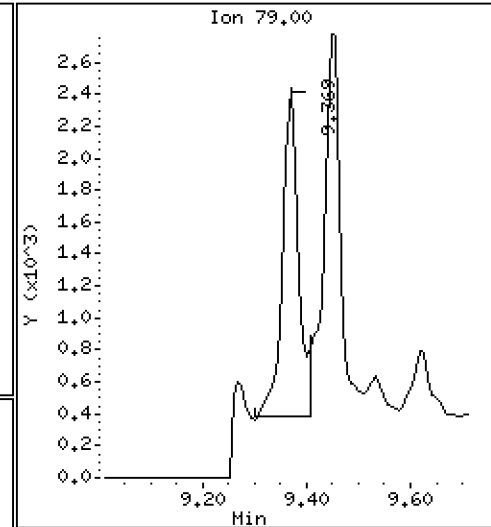
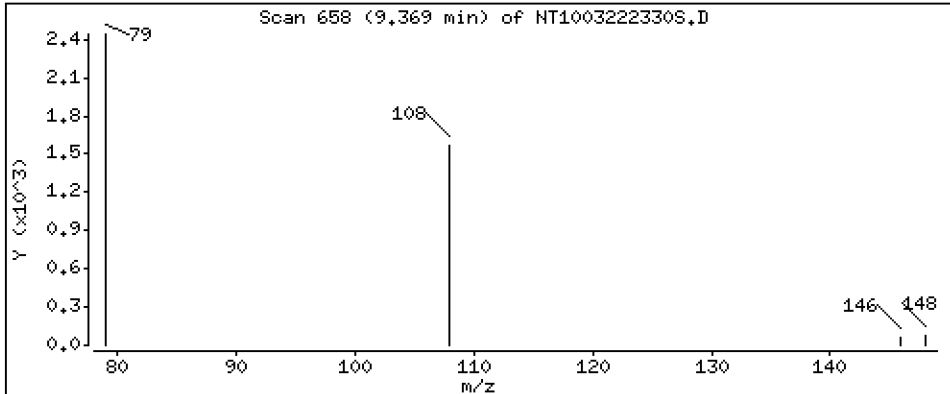
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 0.1063 ug/L



Date : 23-MAR-2023 11:27

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-02

Volume Injected (uL): 1.0

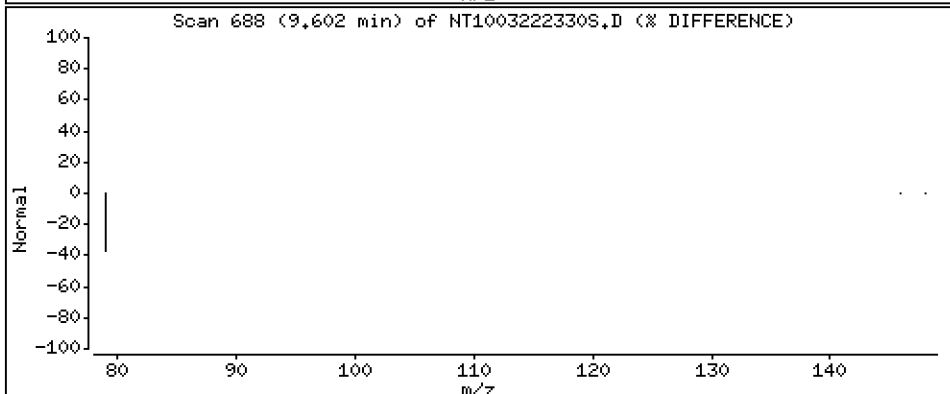
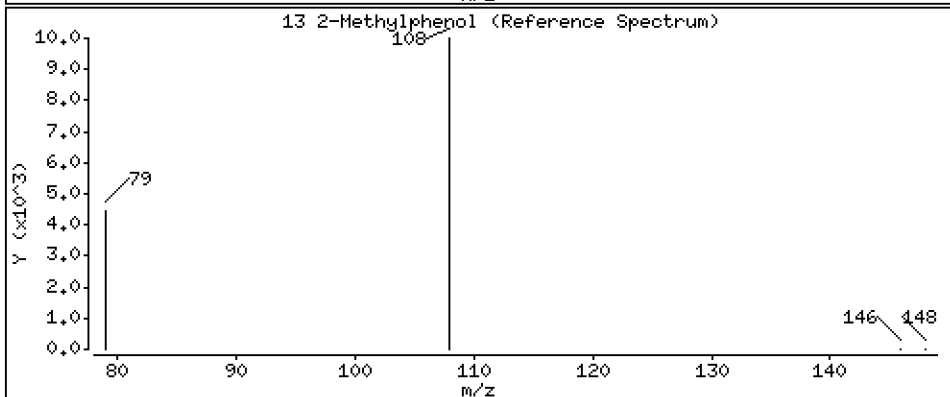
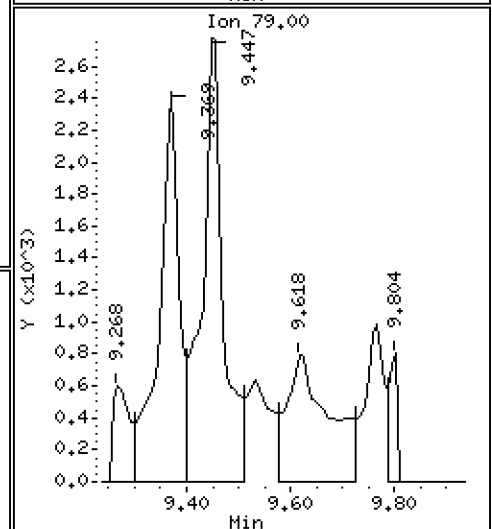
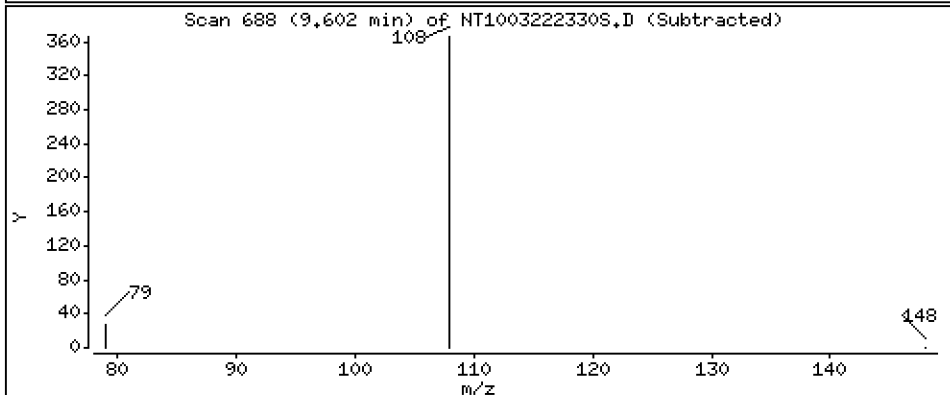
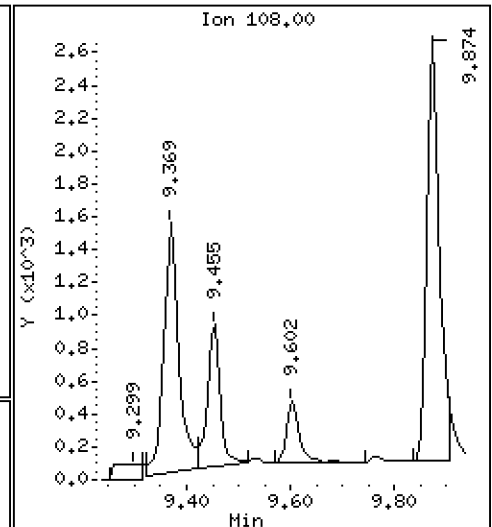
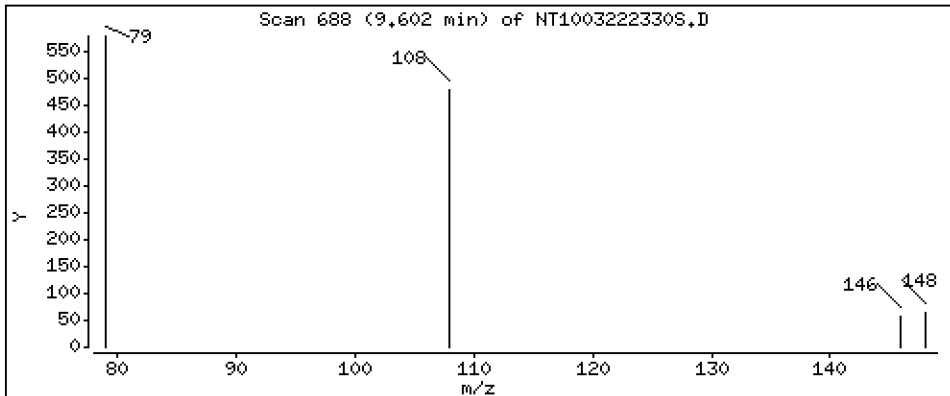
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

13 2-Methylphenol

Concentration: 0.01416 ug/L



Date : 23-MAR-2023 11:27

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-02

Volume Injected (uL): 1.0

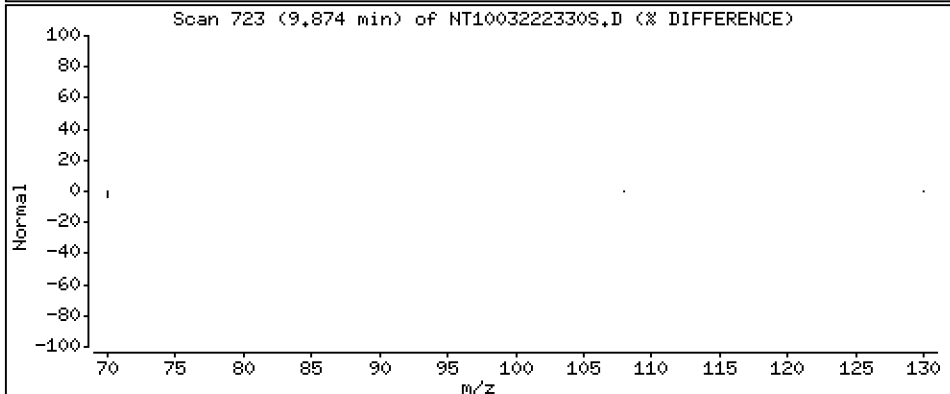
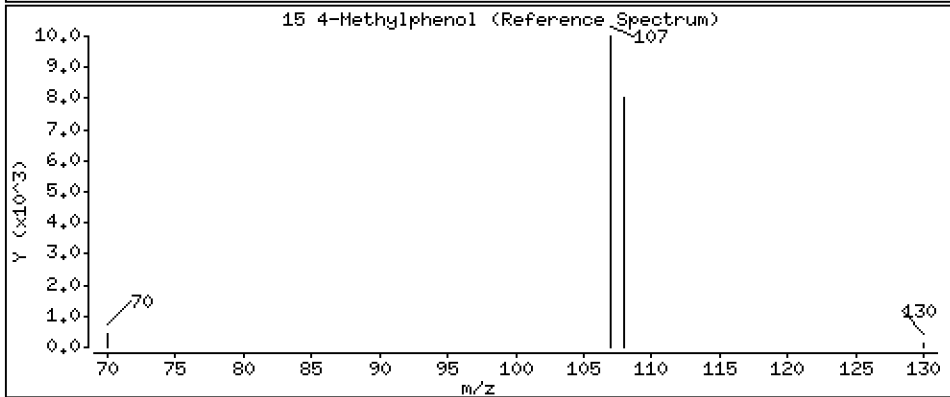
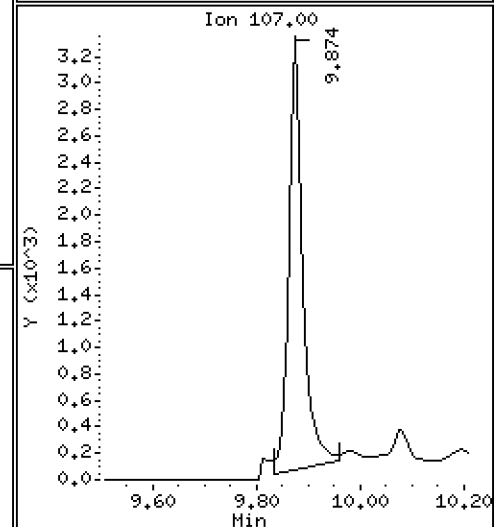
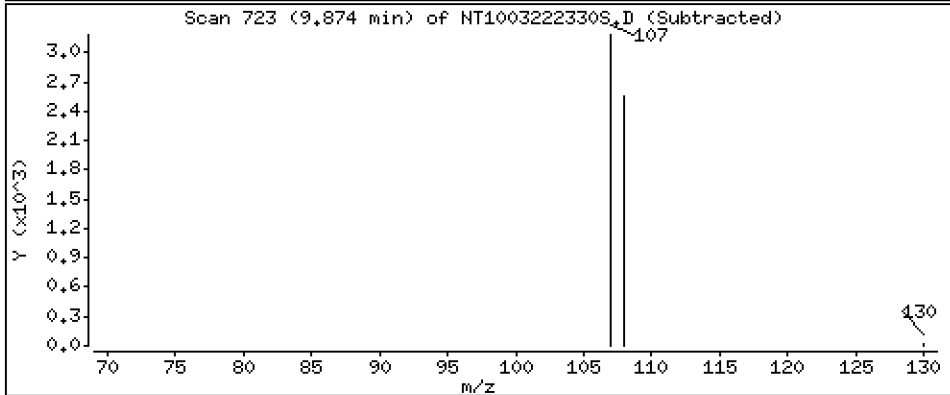
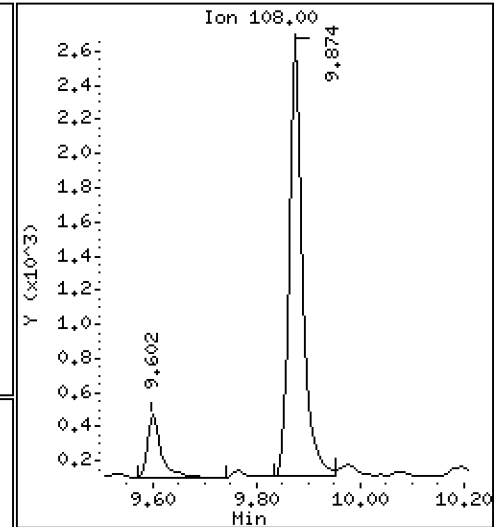
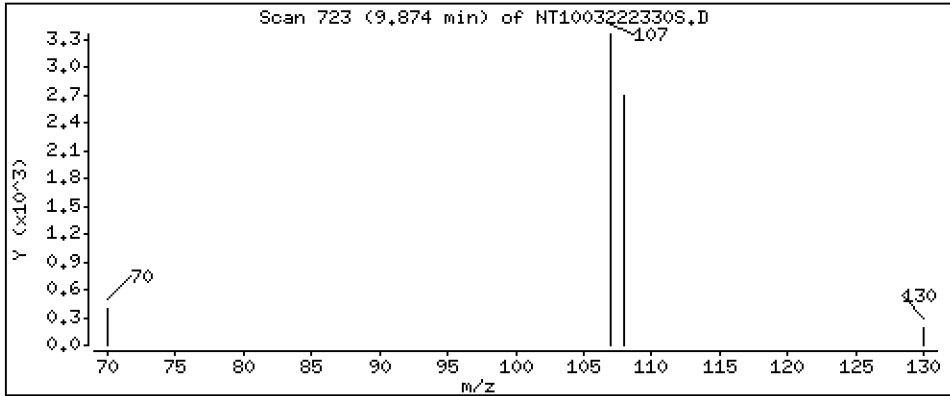
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 0.09379 ug/L



Date : 23-MAR-2023 11:27

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-02

Volume Injected (uL): 1.0

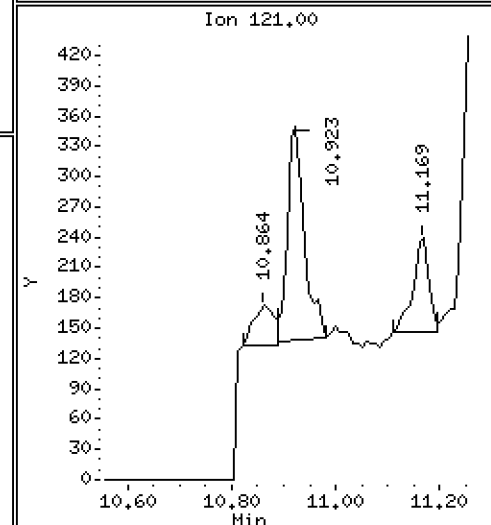
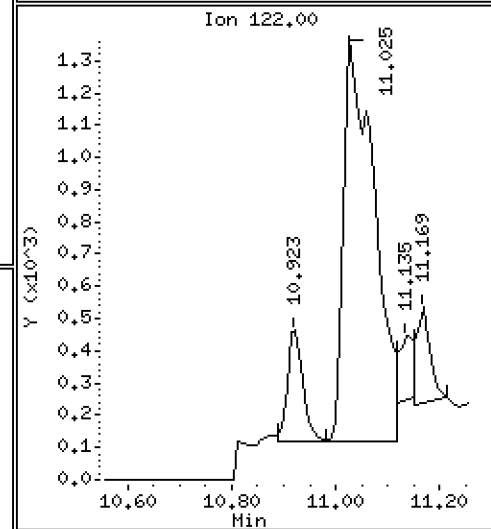
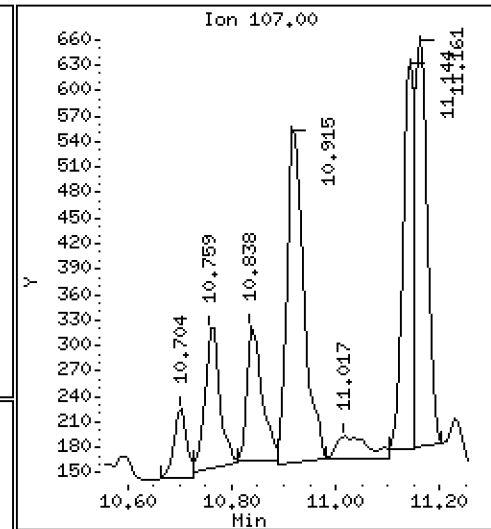
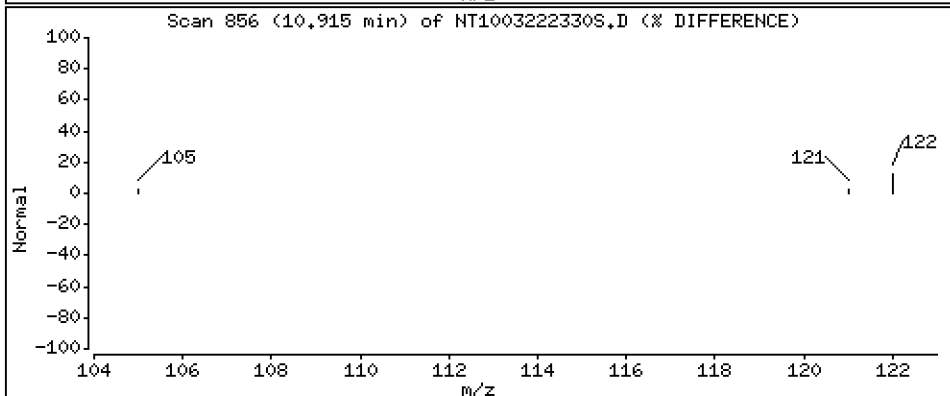
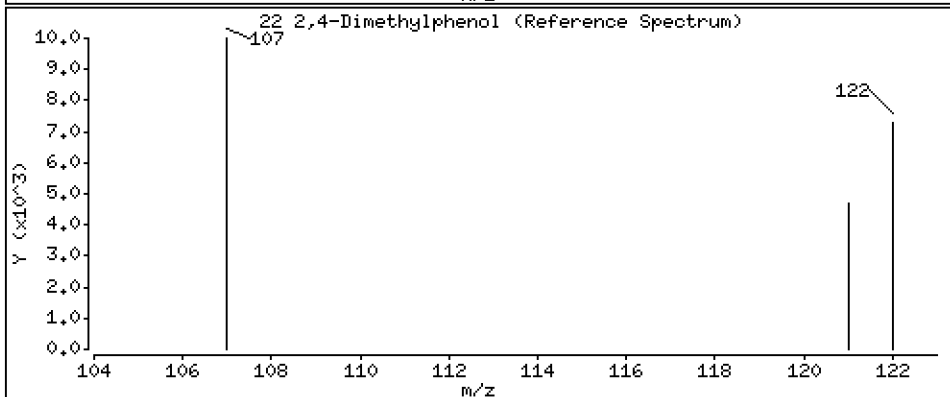
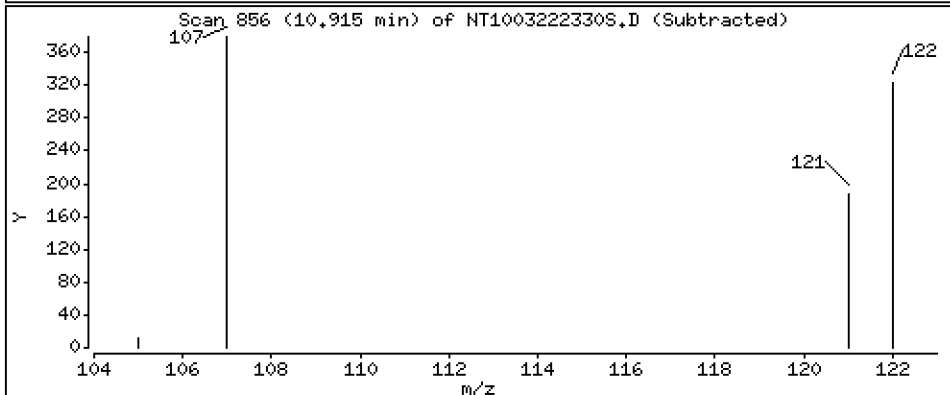
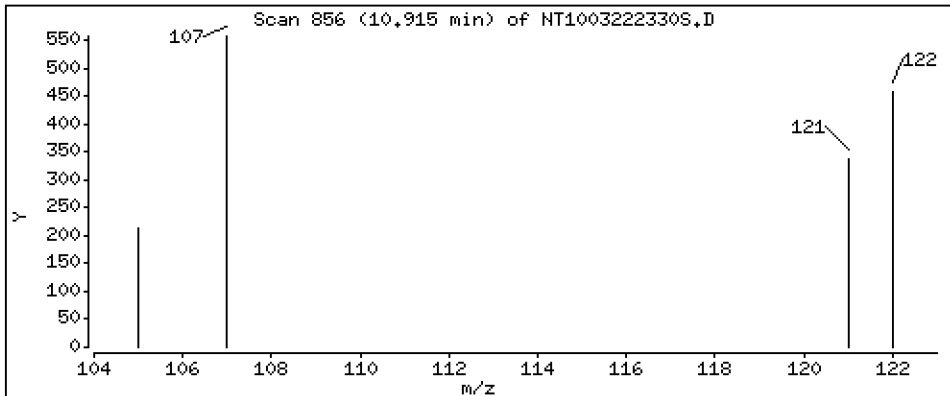
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

22 2,4-Dimethylphenol

Concentration: 0.01747 ug/L



Date : 23-MAR-2023 11:27

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-02

Volume Injected (uL): 1.0

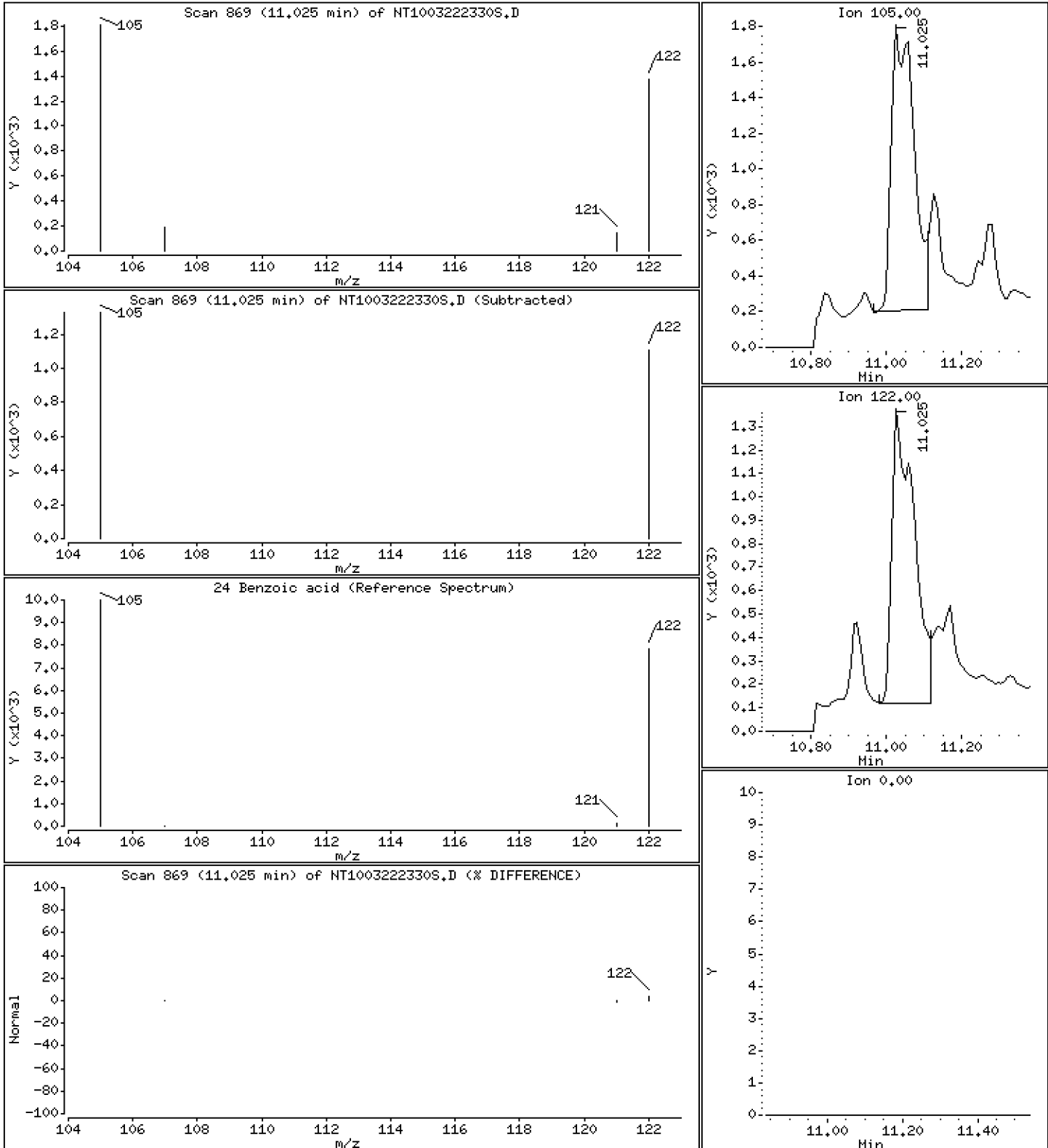
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

24 Benzoic acid

Concentration: 0,2403 ug/L



Date : 23-MAR-2023 11:27

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-02

Volume Injected (uL): 1.0

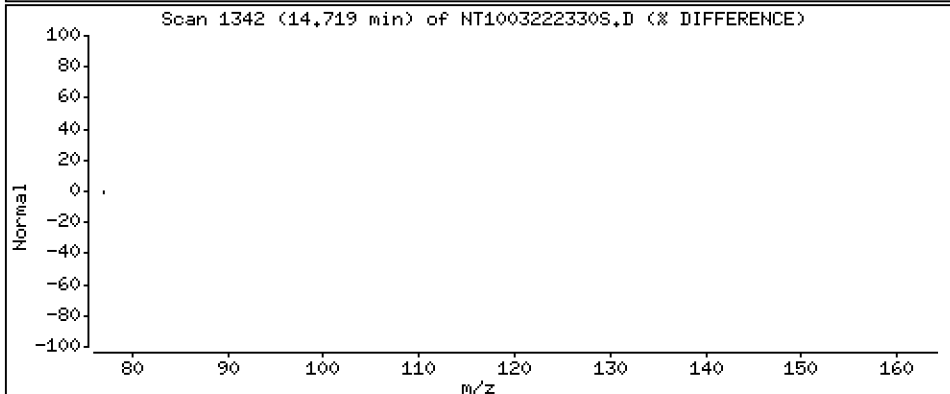
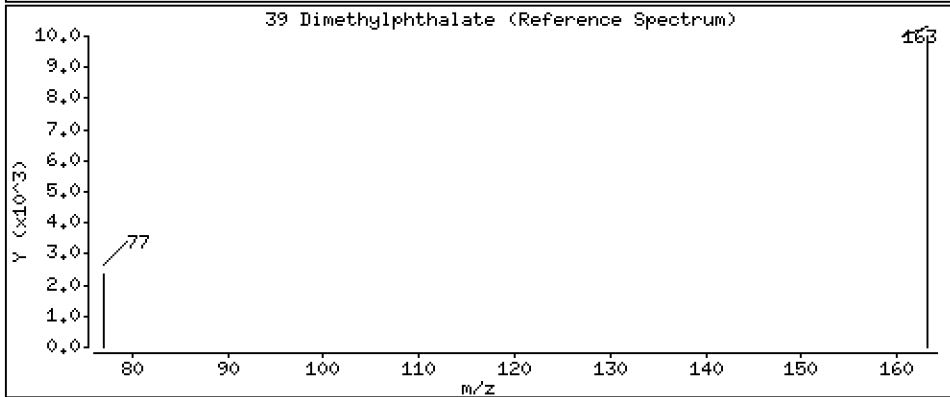
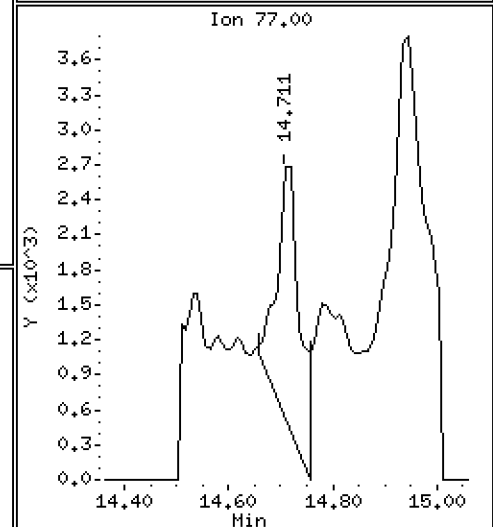
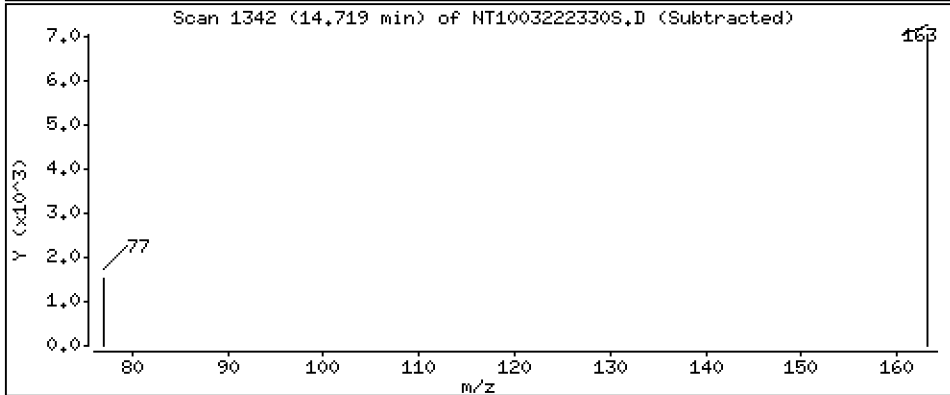
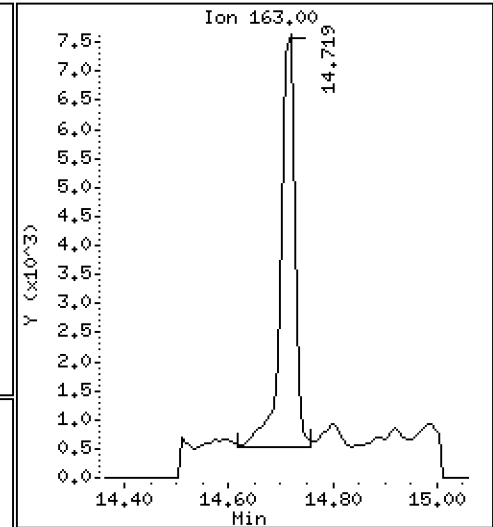
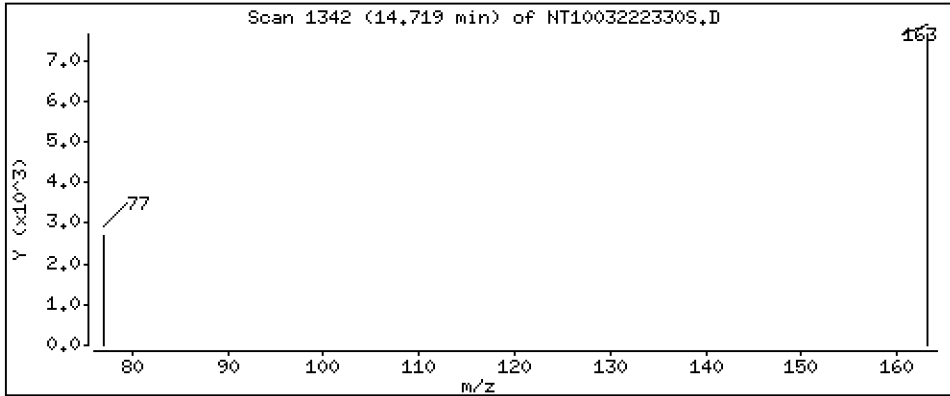
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

39 Dimethylphthalate

Concentration: 0.1404 ug/L



Date : 23-MAR-2023 11:27

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-02

Volume Injected (uL): 1.0

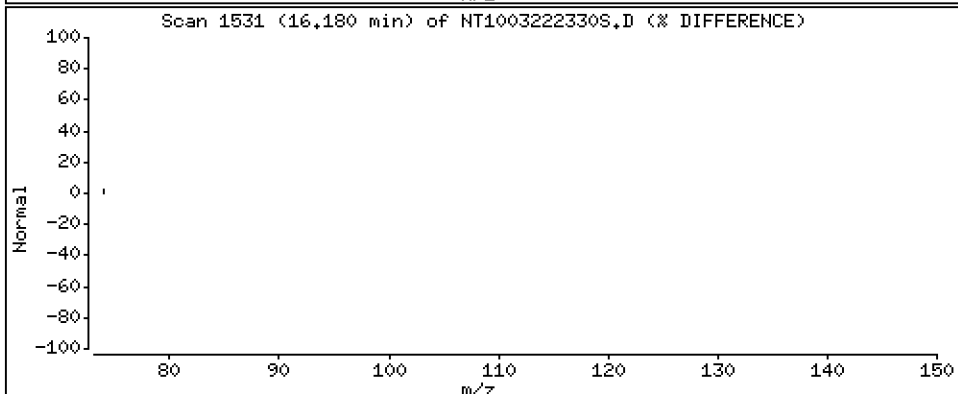
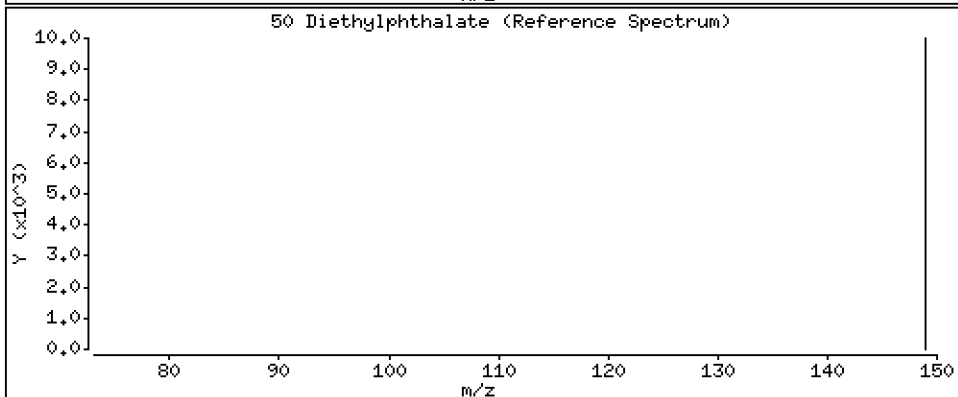
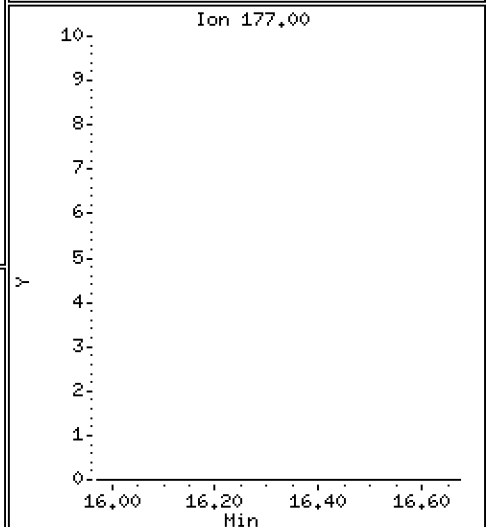
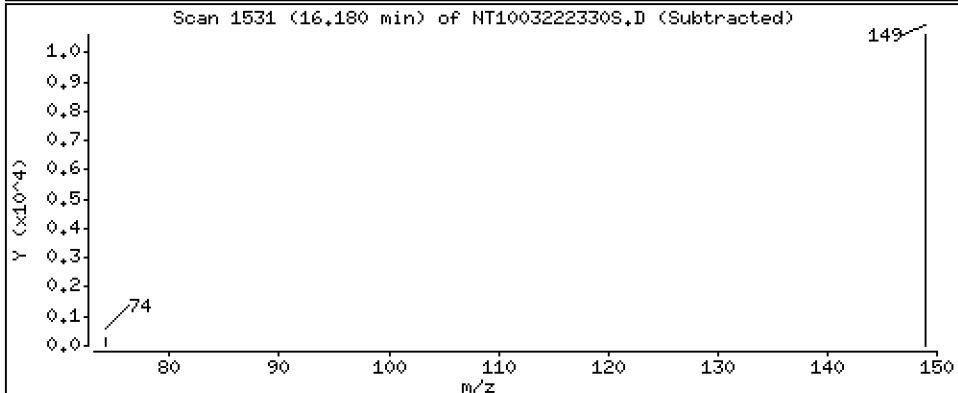
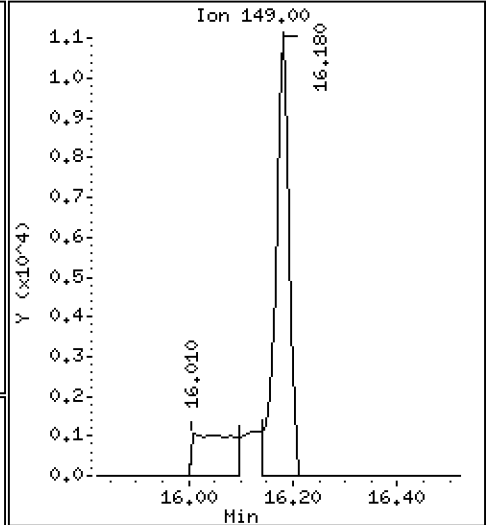
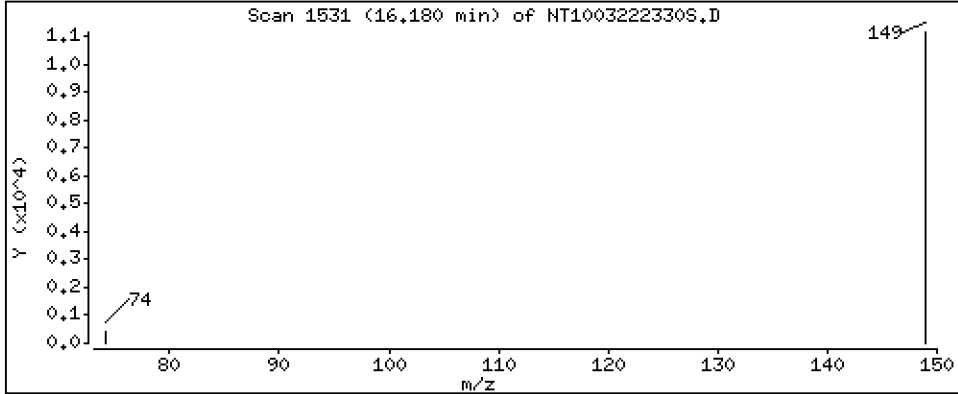
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 0,2136 ug/L



Date : 23-MAR-2023 11:27

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-02

Volume Injected (uL): 1.0

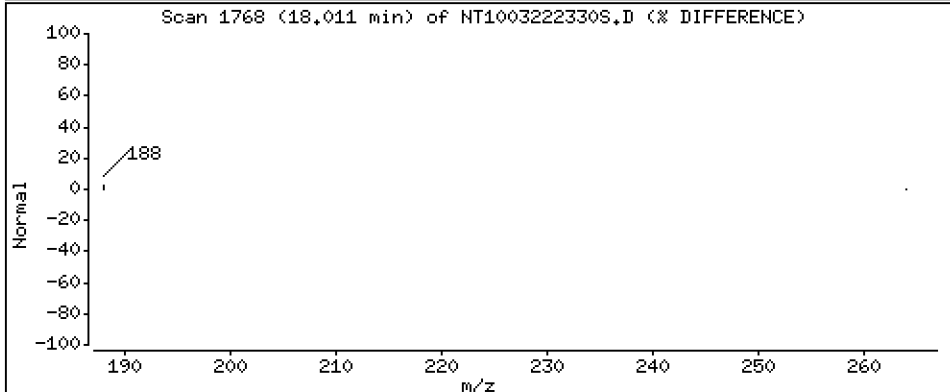
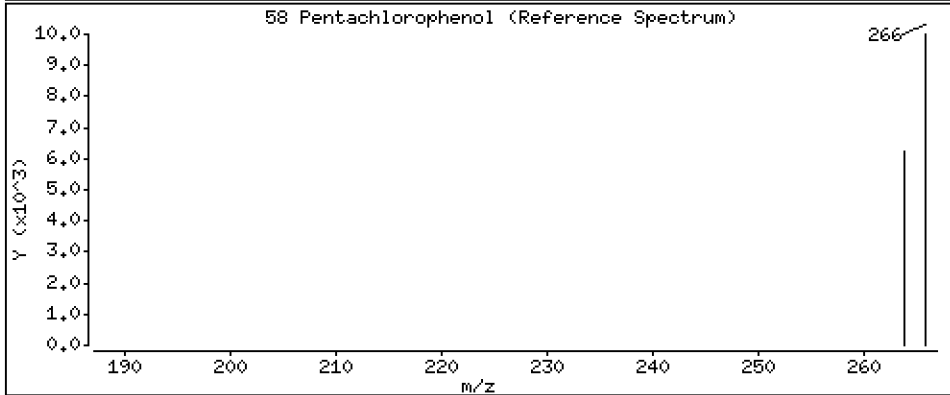
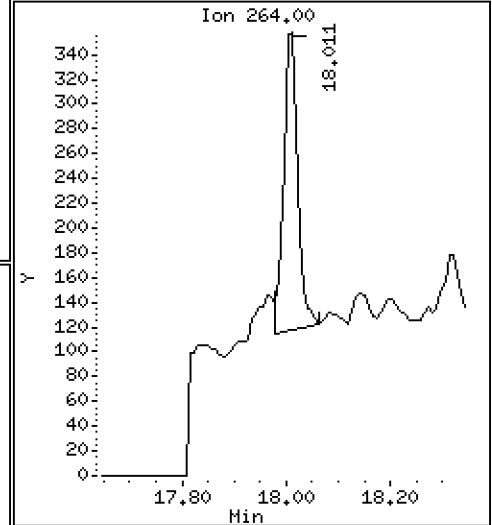
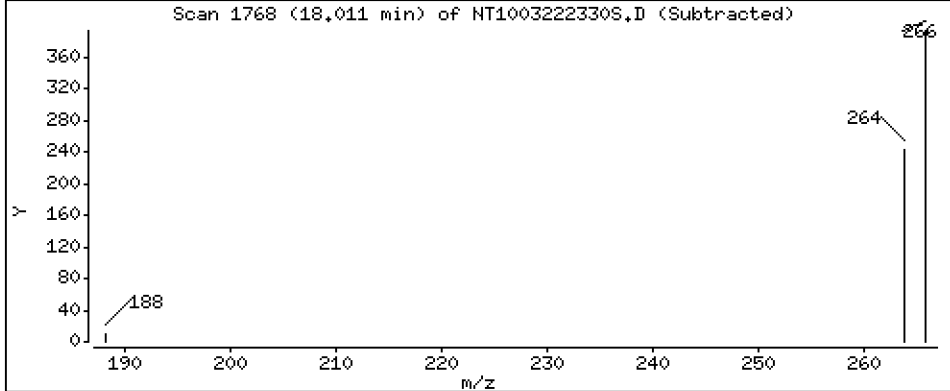
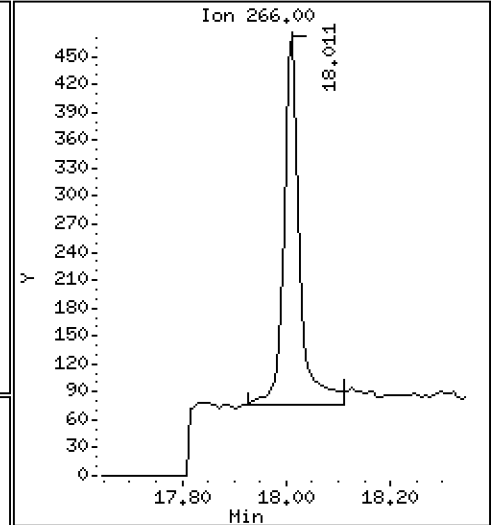
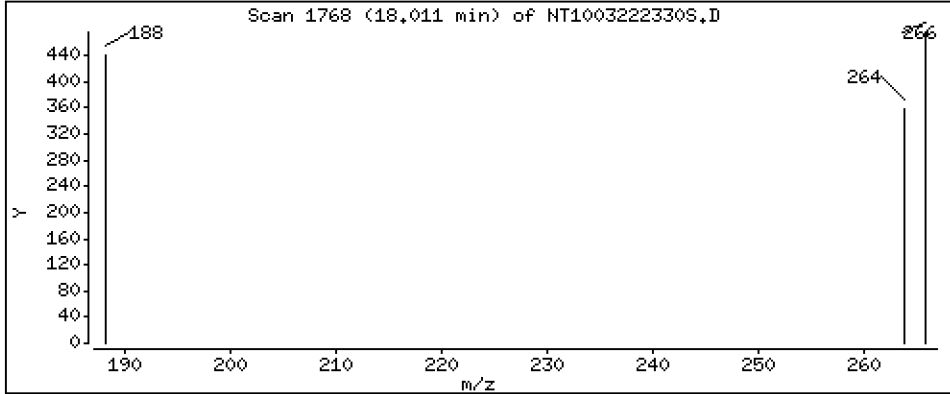
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 0,04062 ug/L



Date : 23-MAR-2023 11:27

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-02

Volume Injected (uL): 1.0

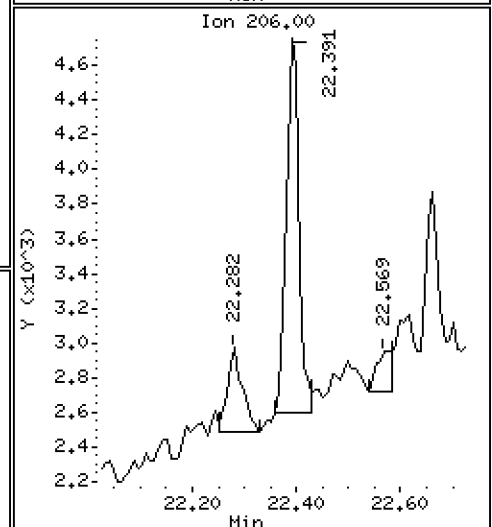
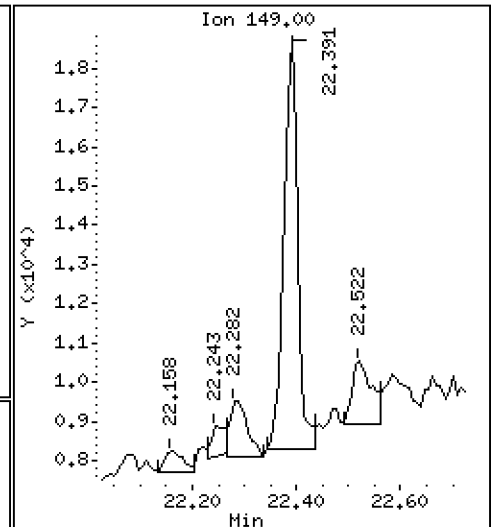
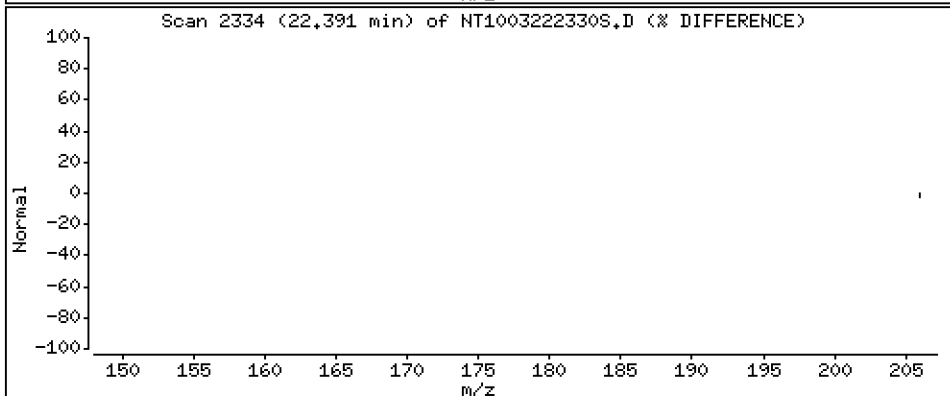
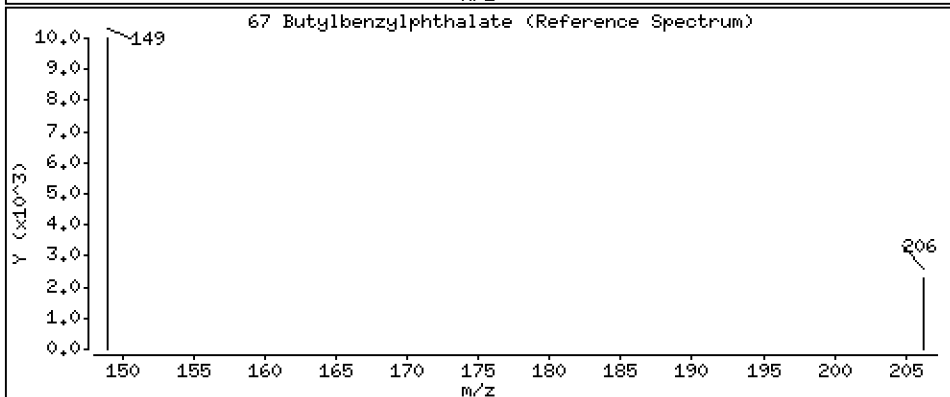
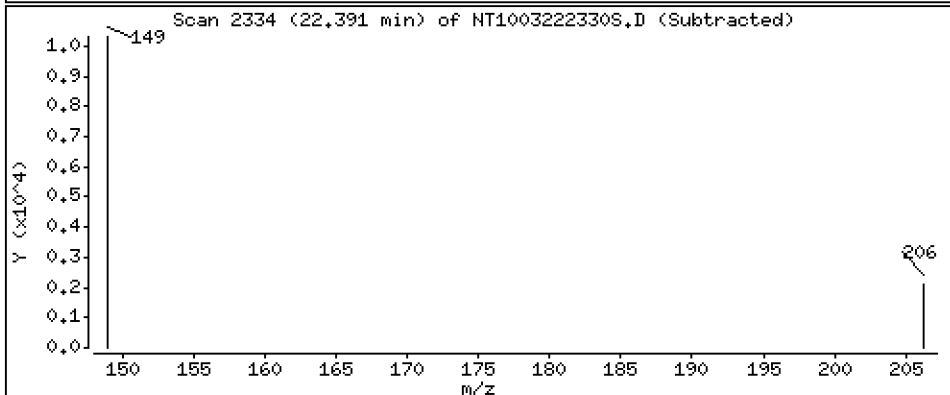
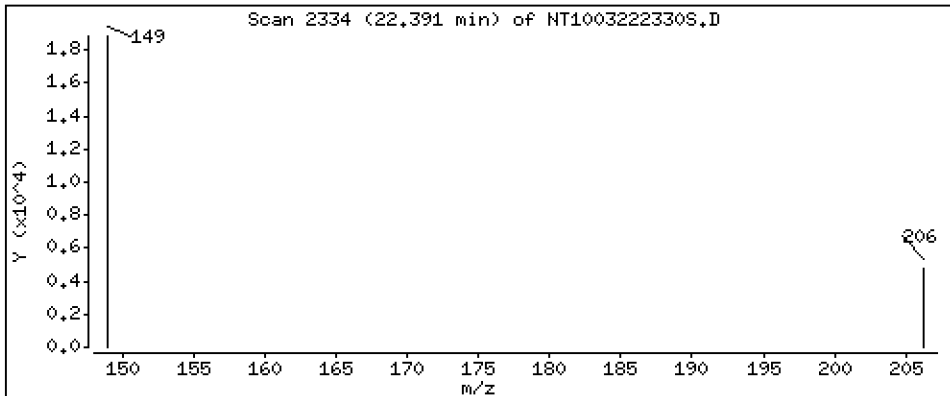
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

67 Butylbenzylphthalate

Concentration: 0.2600 ug/L



Date : 23-MAR-2023 11:27

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-02

Volume Injected (uL): 1.0

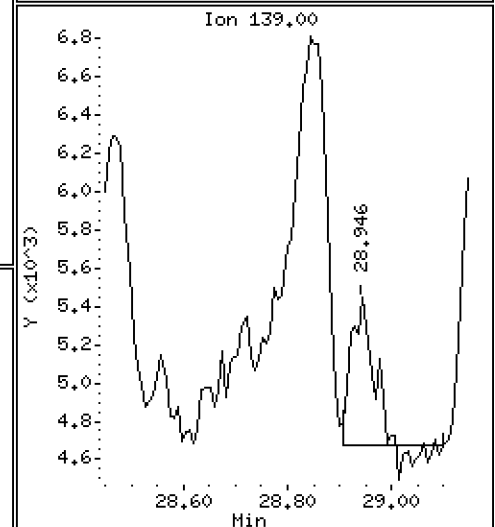
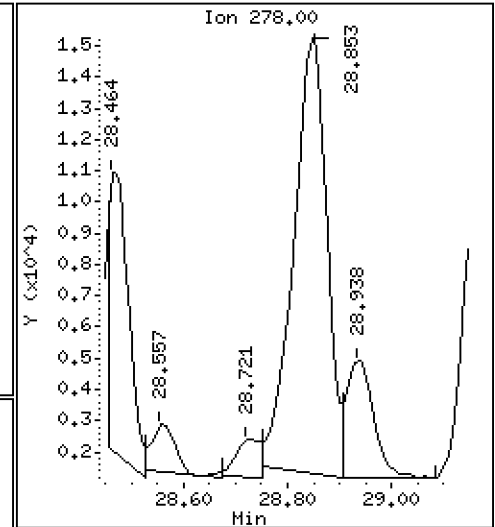
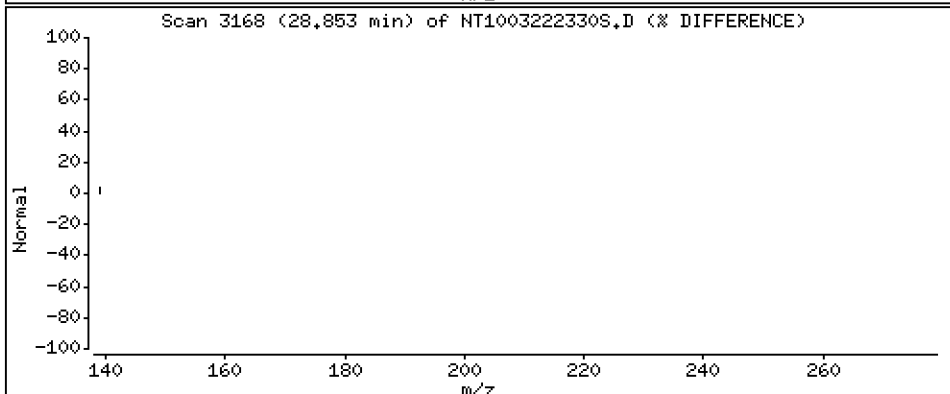
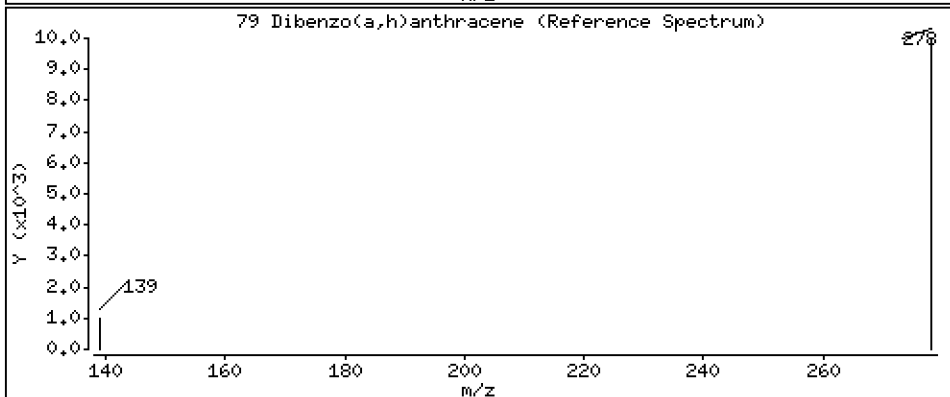
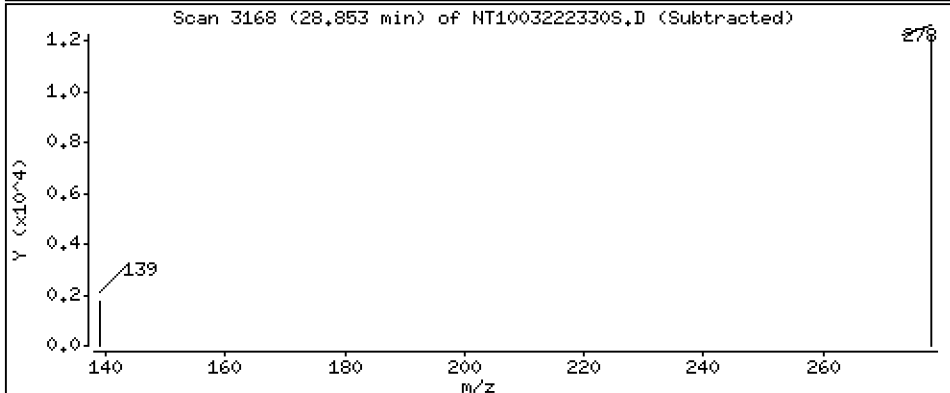
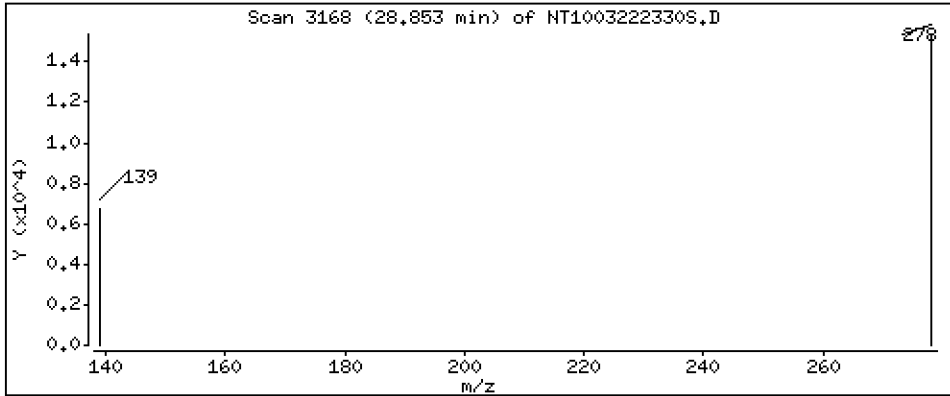
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 0,3251 ug/L



ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230322.b\SIM.b\NT1003222330S.D
 Lab Smp Id: 23A0180-02
 Inj Date : 23-MAR-2023 11:27 MS Autotune Date: 16-JAN-2023 17:42
 Operator : JGR Inst ID: nt10.i
 Smp Info : 23A0180-02
 Misc Info :
 Comment :
 Method : \\target\share\chem3\nt10.i\20230322.b\SIM.b\SIMABN2.m
 Meth Date : 25-Mar-2023 16:11 yev Quant Type: ISTD
 Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D
 Als bottle: 25
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: PSDDA.sub
 Target Version: 4.14
 Processing Host: ORGDATA102

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

| Name | Value | Description |
|---------------|----------|---------------------------------|
| DF | 1.000 | Dilution Factor |
| Vo | 1000.000 | Volume of sample extracted (mL) |
| Vt | 1000.000 | Volume of final extract (uL) |
| Vi | 1.000 | Volume injected (uL) |
| Uf | 1.000 | ng unit correction factor |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT | SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|-------------------------------|-------|-----|------------------------|----------------|--------|----------|----------------|-------------|
| | | | | | | | ON-COLUMN | FINAL |
| | MASS | | | | | | (ug/mL) | (ug/L) |
| \$ 1 2-Fluorophenol | 112 | | 6.871 | 6.856 (0.756) | | 279235 | 5.60179 | 5.602 (R) |
| 3 Phenol | 94 | | 8.486 | 8.471 (0.934) | | 58808 | 0.85992 | 0.8599 |
| 7 1,3-Dichlorobenzene | 146 | | Compound Not Detected. | | | | | |
| * 8 1,4-Dichlorobenzene-d4 | 152 | | 9.089 | 9.090 (1.000) | | 164380 | 4.00000 | |
| 9 1,4-Dichlorobenzene | 146 | | 9.120 | 9.121 (1.003) | | 1664 | 0.02694 | 0.02694 (M) |
| 11 Benzyl alcohol | 79 | | 9.369 | 9.361 (1.031) | | 4216 | 0.10634 | 0.1063 (M) |
| 12 1,2-Dichlorobenzene | 146 | | Compound Not Detected. | | | | | |
| 13 2-Methylphenol | 108 | | 9.602 | 9.586 (1.056) | | 671 | 0.01416 | 0.01416 |
| 15 4-Methylphenol | 108 | | 9.873 | 9.858 (1.086) | | 4618 | 0.09379 | 0.09379 |
| 16 N-Nitroso-di-n-propylamine | 70 | | Compound Not Detected. | | | | | |
| 22 2,4-Dimethylphenol | 107 | | 10.914 | 10.906 (0.942) | | 894 | 0.01747 | 0.01747 |
| 24 Benzoic acid | 105 | | 11.025 | 11.033 (0.952) | | 6729 | 0.24031 | 0.2403 (M) |
| 26 1,2,4-Trichlorobenzene | 180 | | Compound Not Detected. | | | | | |
| * 27 Naphthalene-d8 | 136 | | 11.585 | 11.577 (1.000) | | 592145 | 4.00000 | |
| 30 Hexachlorobutadiene | 225 | | Compound Not Detected. | | | | | |
| 39 Dimethylphthalate | 163 | | 14.718 | 14.711 (0.968) | | 12748 | 0.14041 | 0.1404 (M) |
| * 42 Acenaphthene-d10 | 162 | | 15.206 | 15.206 (1.000) | | 287707 | 4.00000 | |
| 50 Diethylphthalate | 149 | | 16.180 | 16.172 (1.064) | | 20087 | 0.21356 | 0.2136 |
| 54 N-Nitrosodiphenylamine | 169 | | Compound Not Detected. | | | | | |
| 57 Hexachlorobenzene | 284 | | Compound Not Detected. | | | | | |

| Compounds | QUANT | SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|---------------------------|-------|-----|------------------------|--------|---------|----------|----------------|-----------|
| | | | | | | | ON-COLUMN | FINAL |
| | MASS | | | | | | (ug/mL) | (ug/L) |
| ===== | ===== | | ===== | ===== | ===== | ===== | ===== | ===== |
| 58 Pentachlorophenol | 266 | | 18.010 | 17.995 | (0.986) | 844 | 0.04062 | 0.04062 |
| * 59 Phenanthrene-d10 | 188 | | 18.273 | 18.258 | (1.000) | 626634 | 4.00000 | |
| \$ 66 Terphenyl-d14 | 244 | | 21.461 | 21.438 | (0.918) | 506957 | 5.65665 | 5.657 (R) |
| 67 Butylbenzylphthalate | 149 | | 22.390 | 22.375 | (0.958) | 18845 | 0.26001 | 0.2600 |
| * 69 Chrysene-d12 | 240 | | 23.373 | 23.350 | (1.000) | 550041 | 4.00000 | |
| * 77 Perylene-d12 | 264 | | 26.075 | 26.037 | (1.000) | 591581 | 4.00000 | |
| 79 Dibenzo(a,h)anthracene | 278 | | 28.852 | 28.798 | (1.106) | 63026 | 0.32509 | 0.3251 |
| 90 N-Nitrosodimethylamine | 74 | | Compound Not Detected. | | | | | |

QC Flag Legend

- R - Spike/Surrogate failed recovery limits.
- M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i
 Lab File ID: NT1003222330S.D
 Lab Smp Id: 23A0180-02
 Analysis Type: SV
 Quant Type: ISTD
 Operator: JGR
 Method File: \\target\share\chem3\nt10.i\20230322.b\SIM.b\SIMABN2.m
 Misc Info:

Calibration Date: 23-MAR-2023
 Calibration Time: 03:52
 Level: LOW
 Sample Type: AIR

Test Mode:
 Use Last Continuing Calibrator.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|------------|---------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 140507 | 70254 | 281014 | 164380 | 16.99 |
| 27 Naphthalene-d8 | 499190 | 249595 | 998380 | 592145 | 18.62 |
| 42 Acenaphthene-d10 | 250303 | 125152 | 500606 | 287707 | 14.94 |
| 59 Phenanthrene-d10 | 496896 | 248448 | 993792 | 626634 | 26.11 |
| 69 Chrysene-d12 | 465837 | 232919 | 931674 | 550041 | 18.08 |
| 77 Perylene-d12 | 551078 | 275539 | 1102156 | 591581 | 7.35 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 9.09 | 8.59 | 9.59 | 9.09 | -0.00 |
| 27 Naphthalene-d8 | 11.58 | 11.08 | 12.08 | 11.59 | 0.07 |
| 42 Acenaphthene-d10 | 15.21 | 14.71 | 15.71 | 15.21 | -0.00 |
| 59 Phenanthrene-d10 | 18.26 | 17.76 | 18.76 | 18.27 | 0.08 |
| 69 Chrysene-d12 | 23.35 | 22.85 | 23.85 | 23.37 | 0.10 |
| 77 Perylene-d12 | 26.04 | 25.54 | 26.54 | 26.08 | 0.15 |

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

REVIEW SUMMARY FOR FILE - NT1003222330S.D

Lab ID: 23A0180-02

nt10.i, 20230322.b\SIM.b\SIMABN2.m, 23-MAR-2023 11:27

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT CCV RRT DELTA COMPOUND

NONE

RRT check based on Ccal File: SIM.b/NT1003222318S.D

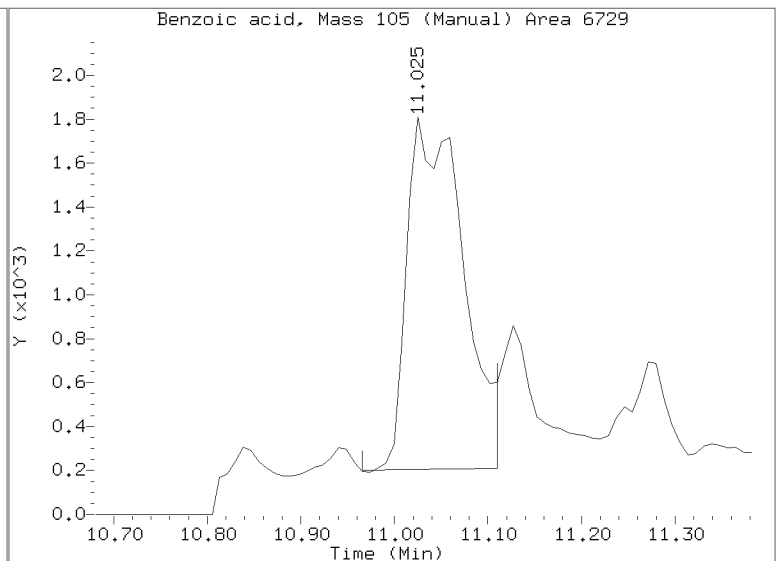
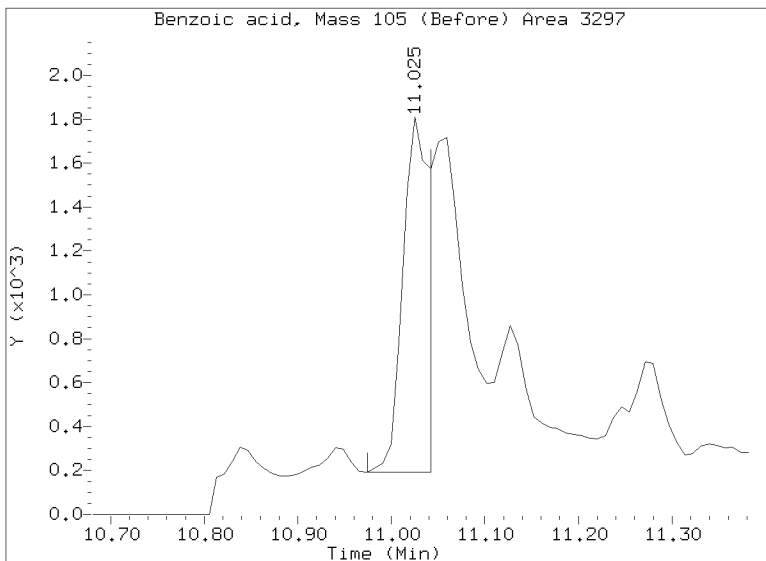
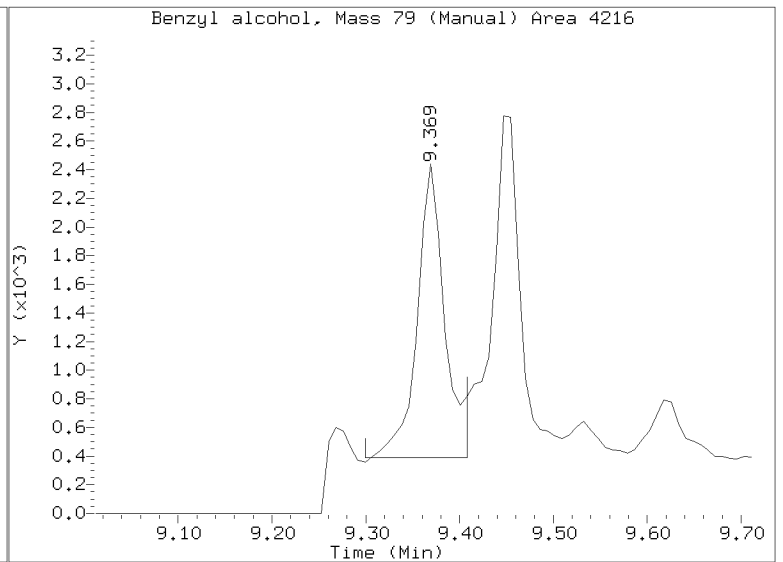
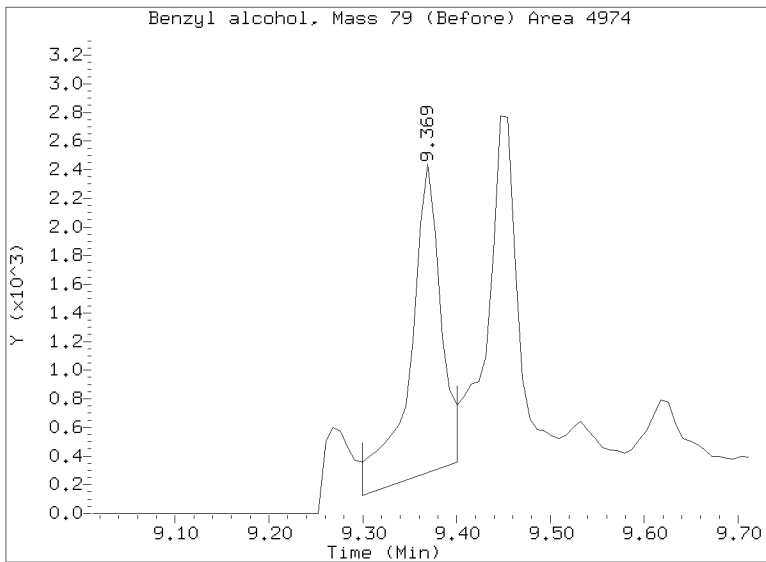
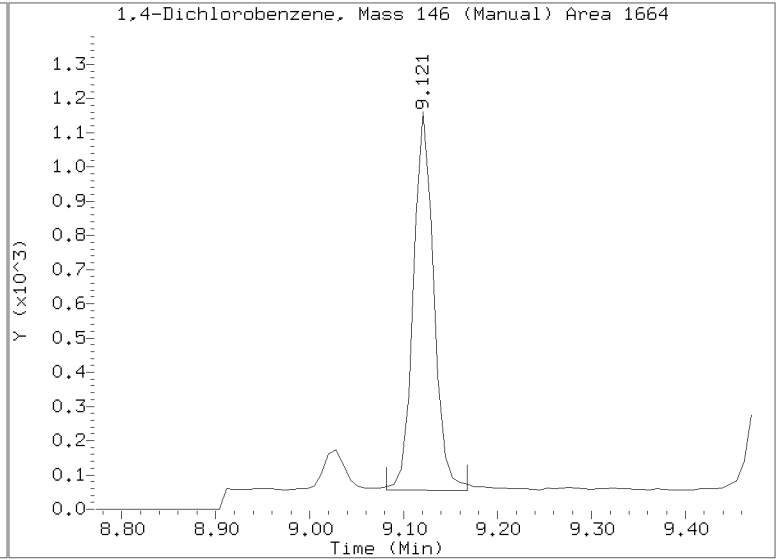
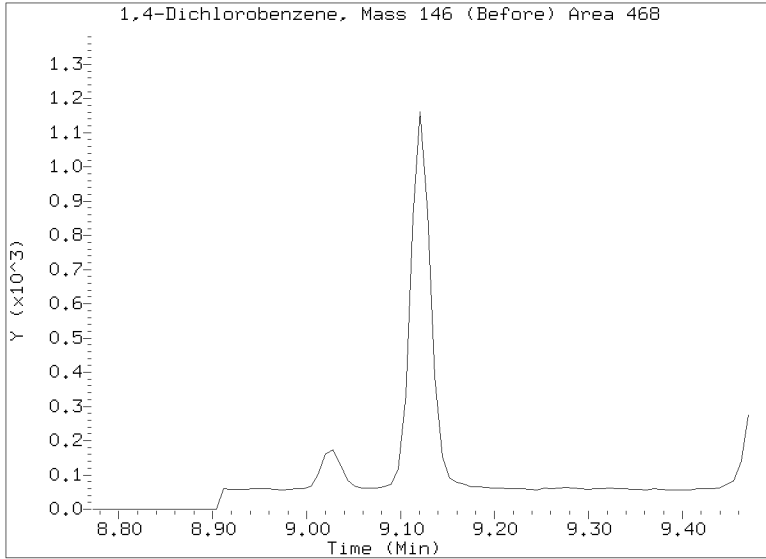
On Column LOD for nt10.i, SIM.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

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

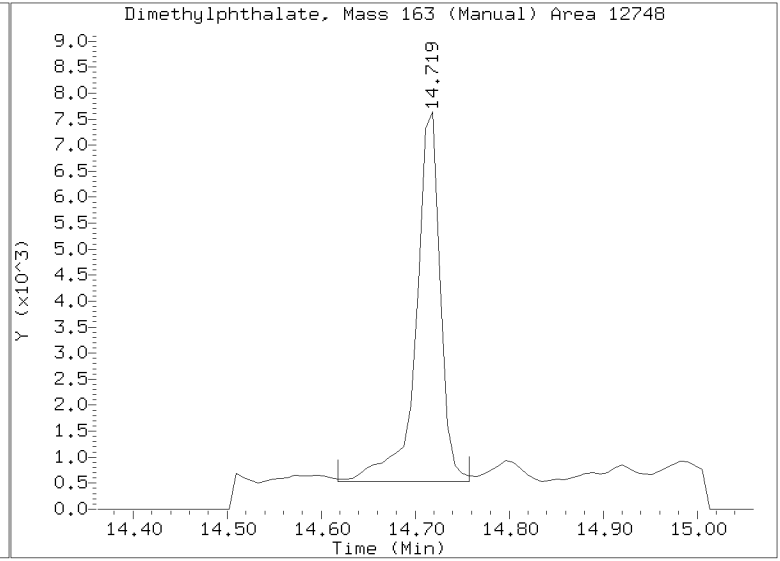
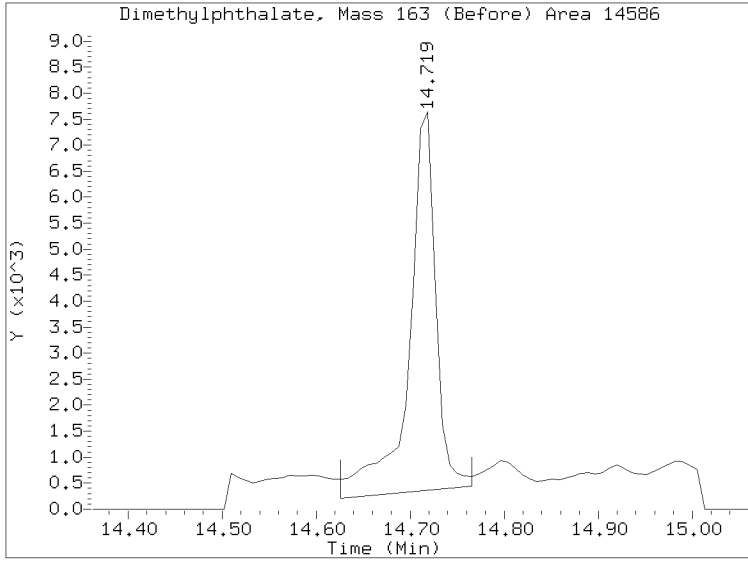
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230322.b/SIM.b/NT1003222330S.D
Injection Date: 23-MAR-2023 11:27
Lab ID:23A0180-02 Client ID:
Report Date: 03/25/2023 16:12



Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230322.b/SIM.b/NT1003222330S.D
Injection Date: 23-MAR-2023 11:27
Lab ID:23A0180-02 Client ID:
Report Date: 03/25/2023 16:12





Form I
ORGANIC ANALYSIS DATA SHEET
EPA 8270E-SIM
SIM SVOC Organics (Dual scan list)

Laboratory: Analytical Resources, LLC

Client: Anchor OEA, LLC

Project: AOC5 MR Phase 1

Matrix: Sediment

Laboratory ID: 23A0180-03RE1 A

SDG: 23A0180

Sampled: 01/10/23 08:33

Prepared: 03/17/23 14:20

File ID: NT1003222331S.D

% Solids: 54.31

Preparation: EPA 3546 (Microwave)

Analyzed: 03/23/23 12:05

Batch: BLC0442

Sequence: SLC0407

Initial/Final: 19.14 g Wet / 1 mL

Instrument: NT10

Column: ZB-5MSi

Calibration: GC00049

Cleanups: GPC

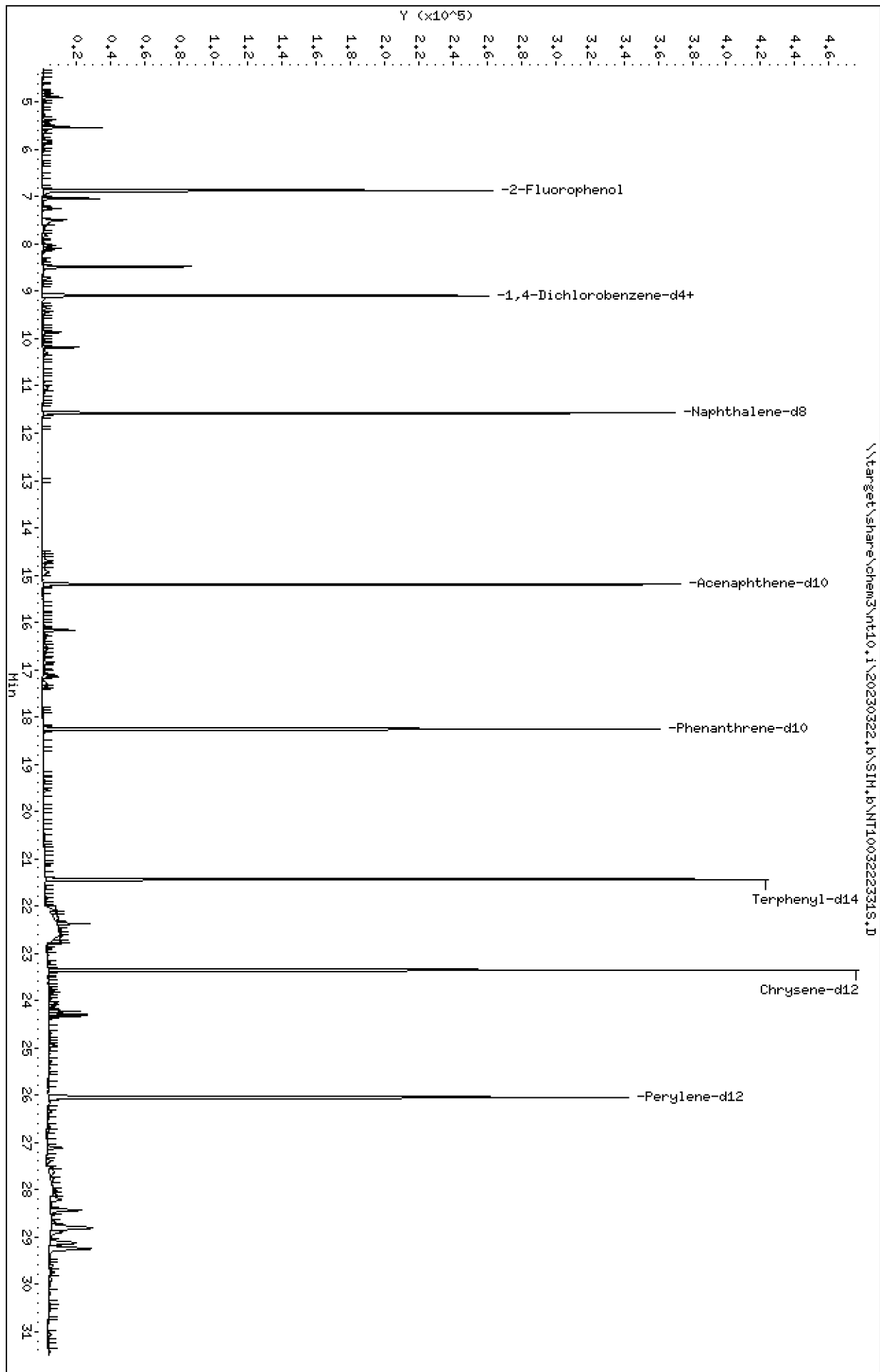
| CAS NO. | COMPOUND | DILUTION | CONC: (ug/kg dry) | Q | DL | RL |
|----------|------------------------|----------|----------------------|---|------|------|
| 106-46-7 | 1,4-Dichlorobenzene | 1 | 1.9 | J | 0.6 | 4.8 |
| 95-50-1 | 1,2-Dichlorobenzene | 1 | 4.8 | U | 0.7 | 4.8 |
| 100-51-6 | Benzyl Alcohol | 1 | 13.1 | J | 2.4 | 19.2 |
| 65-85-0 | Benzoic acid | 1 | 28.3 | J | 12.9 | 96.2 |
| 105-67-9 | 2,4-Dimethylphenol | 1 | 19.2 | U | 2.1 | 19.2 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1 | 4.8 | U | 2.6 | 4.8 |
| 86-30-6 | N-Nitrosodiphenylamine | 1 | 4.8 | U | 1.3 | 4.8 |
| 87-86-5 | Pentachlorophenol | 1 | 3.3 | J | 2.0 | 19.2 |

| SURROGATES | ADDED: (ug/kg dry) | FOUND: (ug/kg dry) | % REC | QC LIMITS | Q |
|-----------------|-----------------------|-----------------------|-------|-----------|---|
| 2-Fluorophenol | 721.51 | 544 | 75.4 | 27 - 120 | |
| p-Terphenyl-d14 | 481.00 | 553 | 115 | 37 - 120 | |

Data File: \\target\share\chem3\nt10.1\20230322.16\SIM.6\NT1003222331S.D
Date: 23-MAR-2023 12:05
Client ID:
Sample Info: 23A0180-03
Volume Injected (uL): 1.0
Column phase: ZB-5msi

Instrument: nt10.1
Operator: JGR
Column diameter: 0.25

\\target\share\chem3\nt10.1\20230322.16\SIM.6\NT1003222331S.D



Date : 23-MAR-2023 12:05

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-03

Volume Injected (uL): 1.0

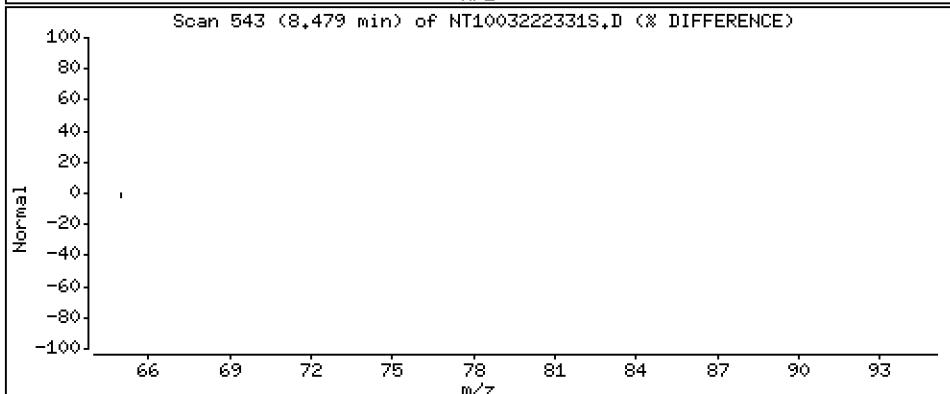
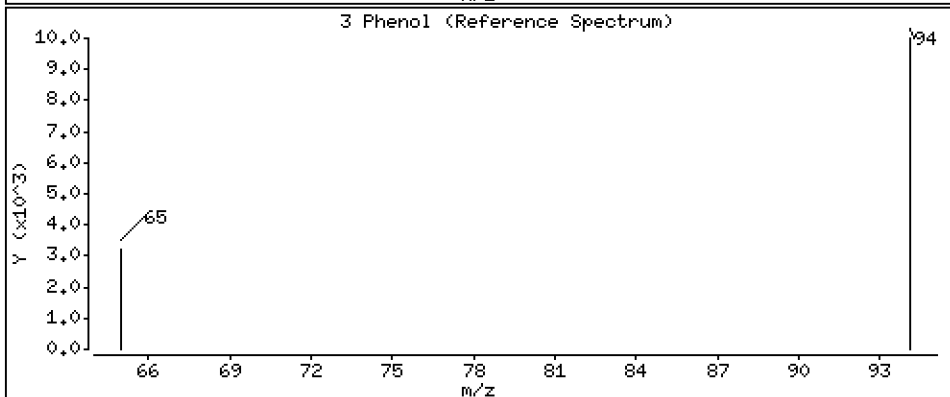
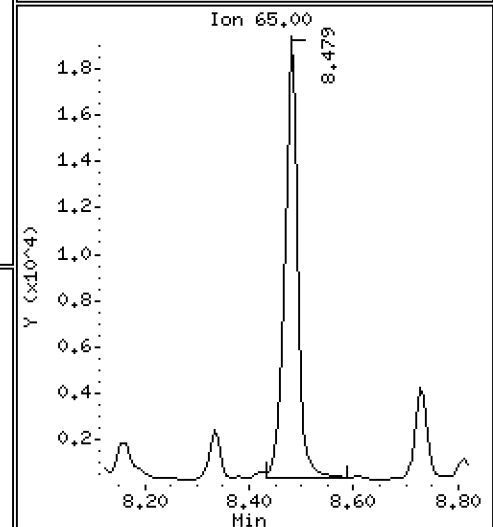
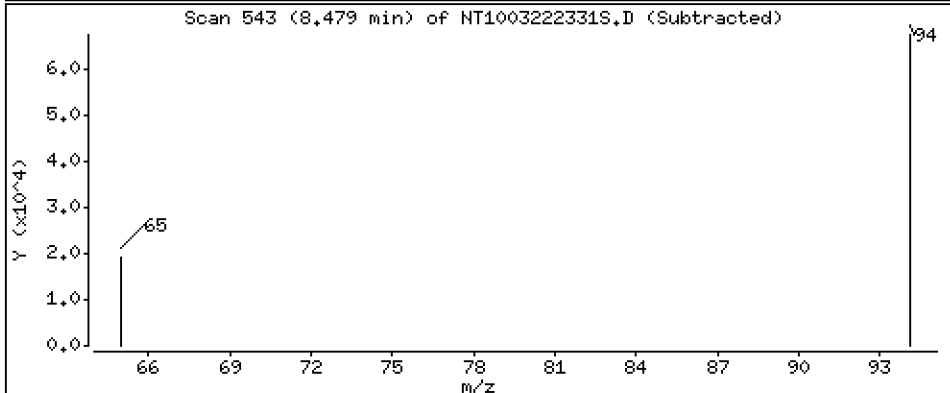
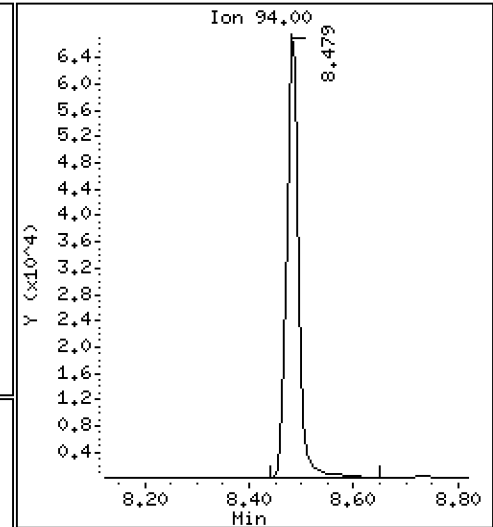
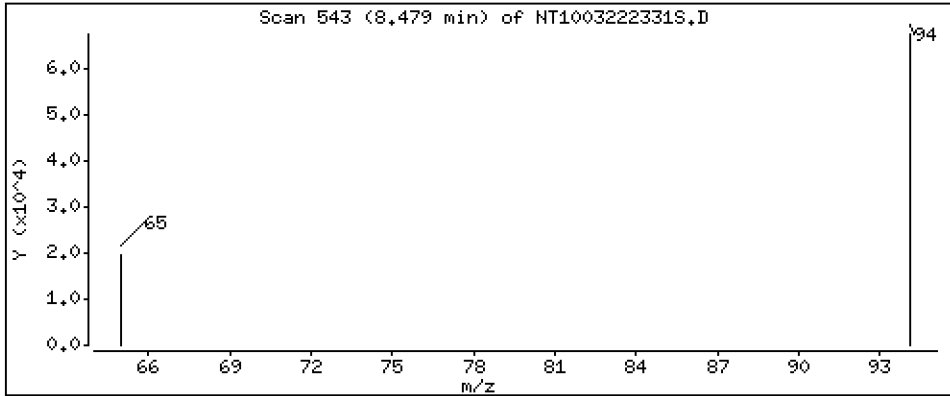
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 1,603 ug/L



Date : 23-MAR-2023 12:05

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-03

Volume Injected (uL): 1.0

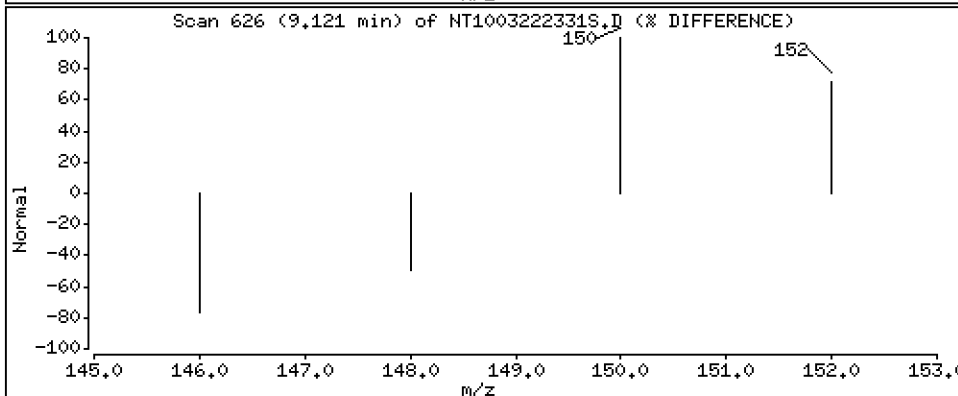
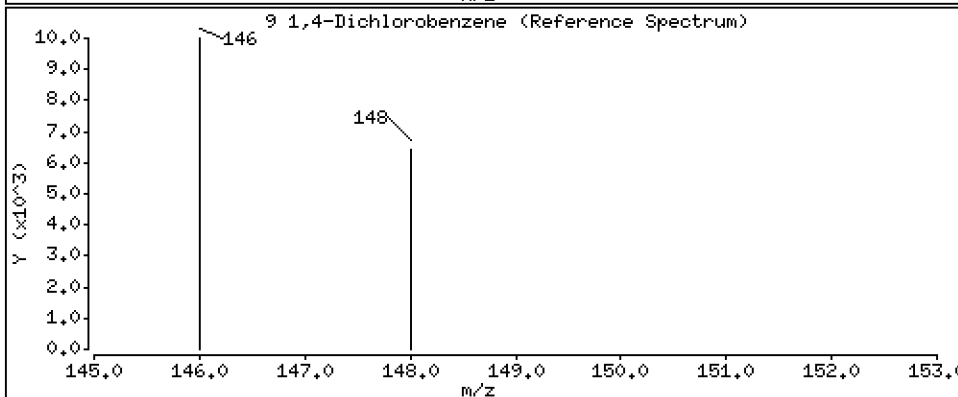
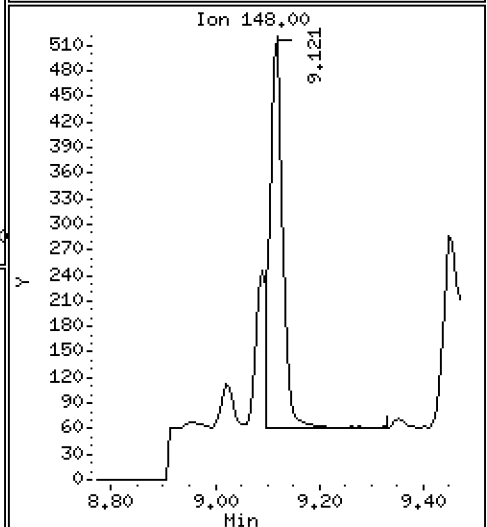
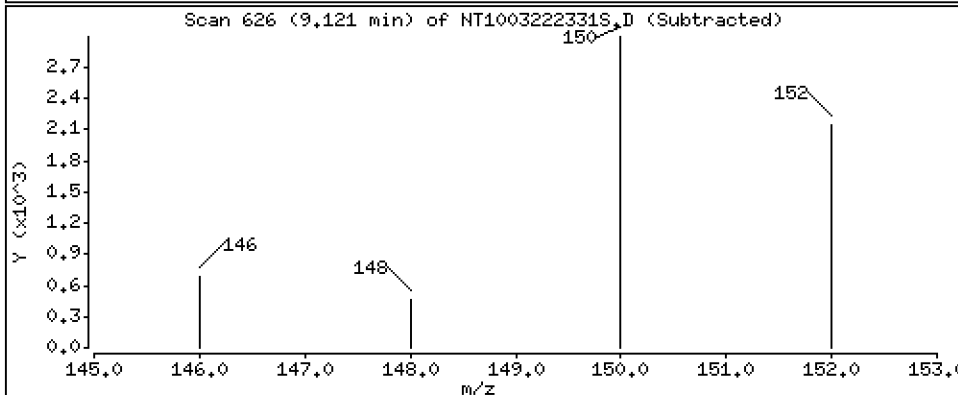
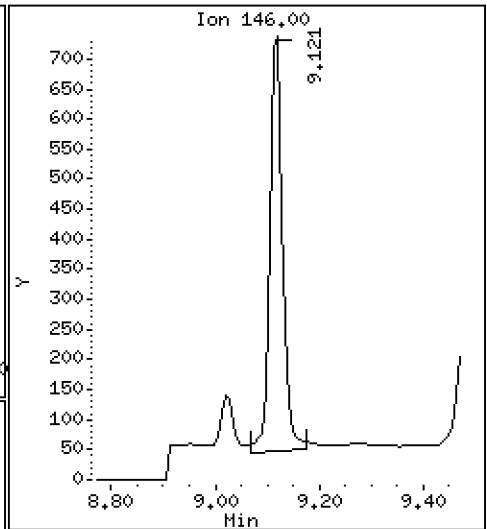
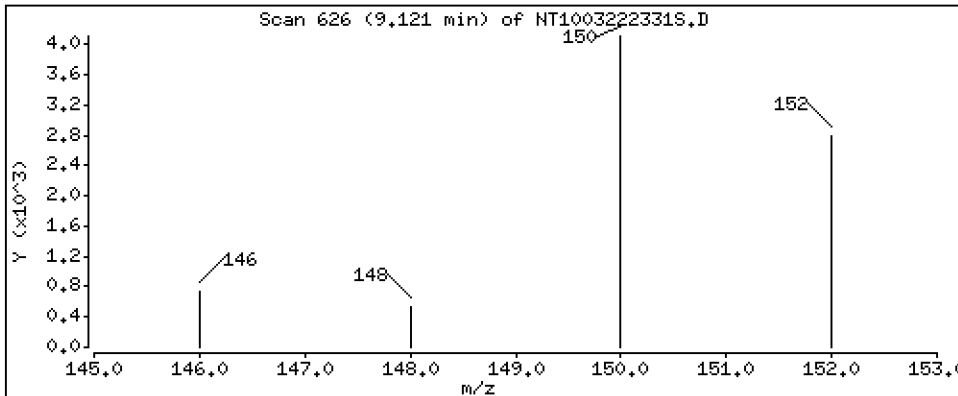
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 0,01973 ug/L



Date : 23-MAR-2023 12:05

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-03

Volume Injected (uL): 1.0

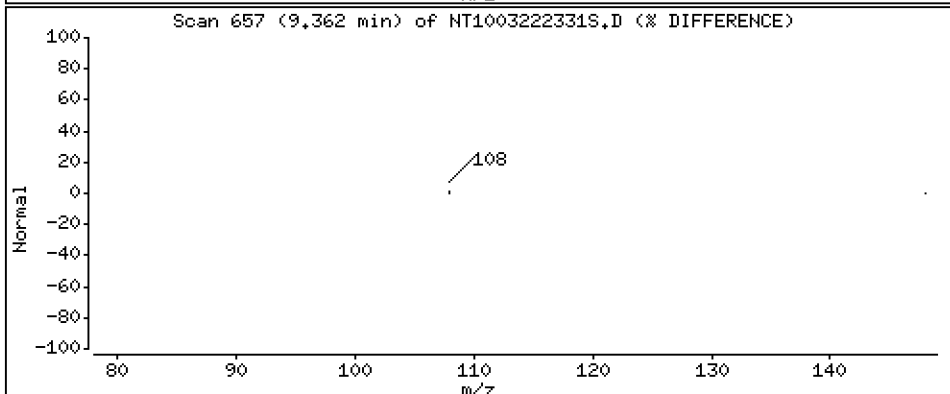
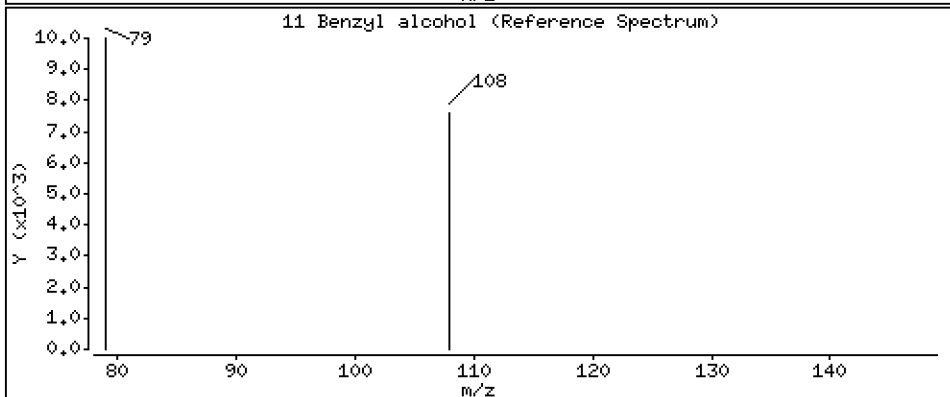
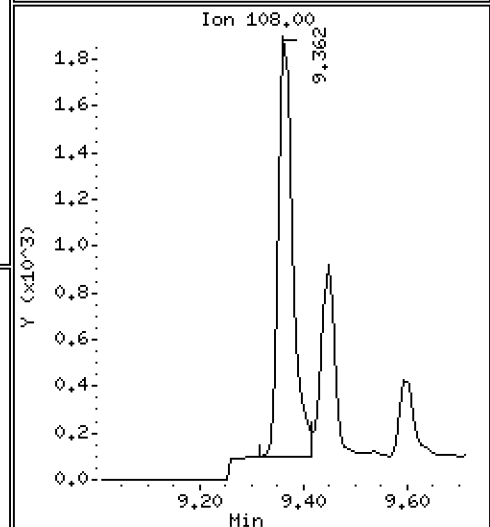
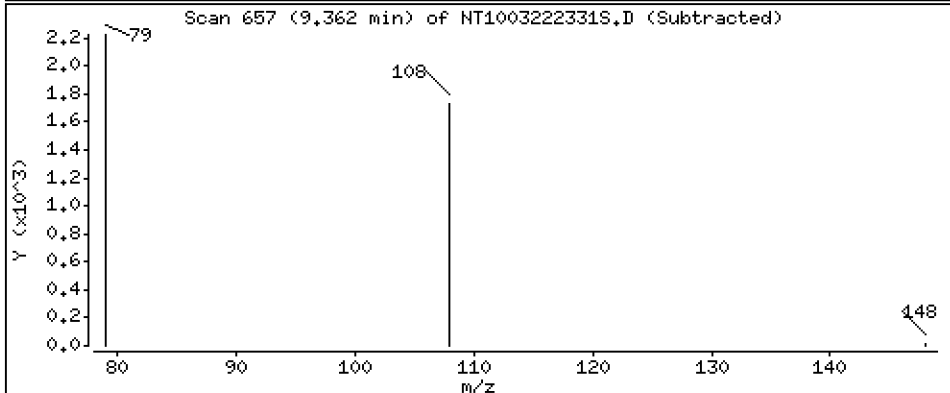
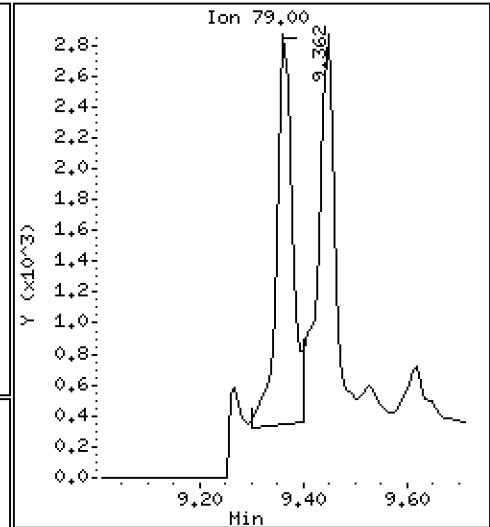
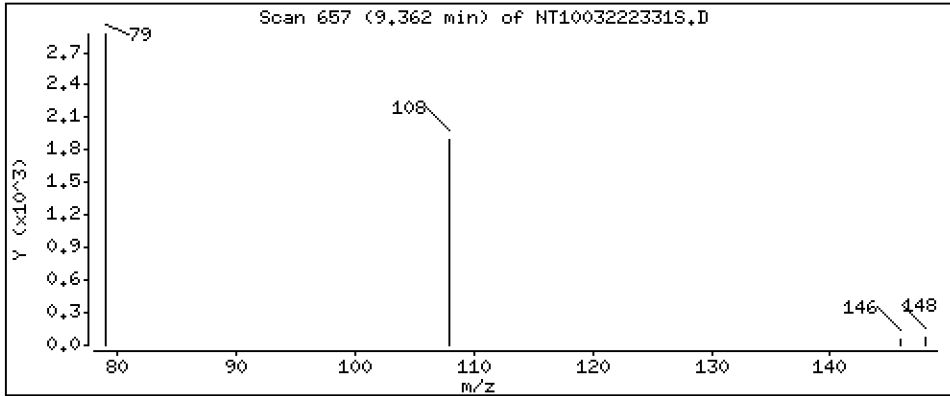
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 0.1358 ug/L



Date : 23-MAR-2023 12:05

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-03

Volume Injected (uL): 1.0

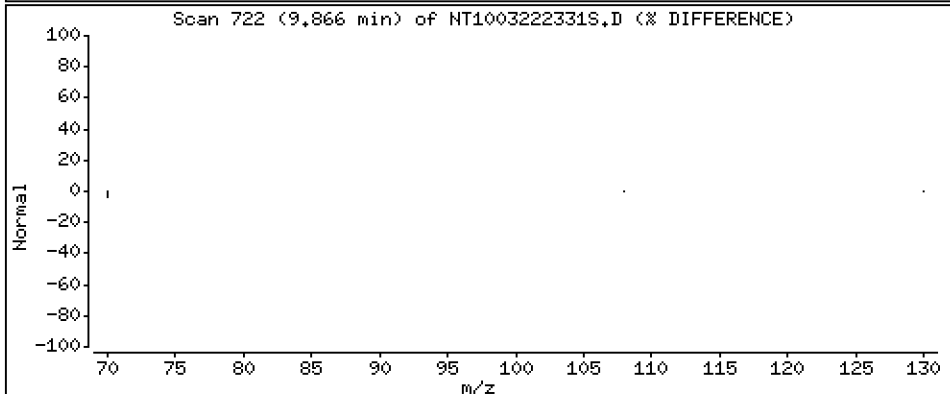
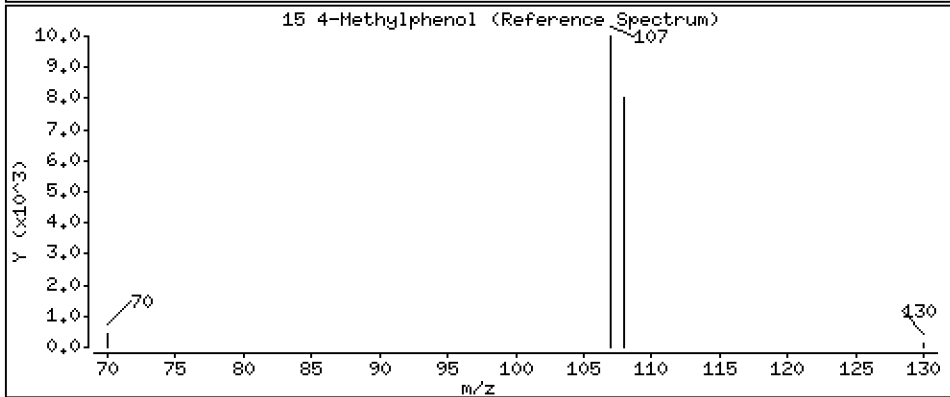
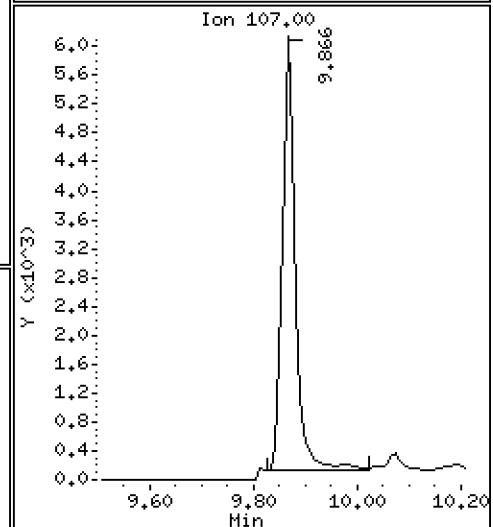
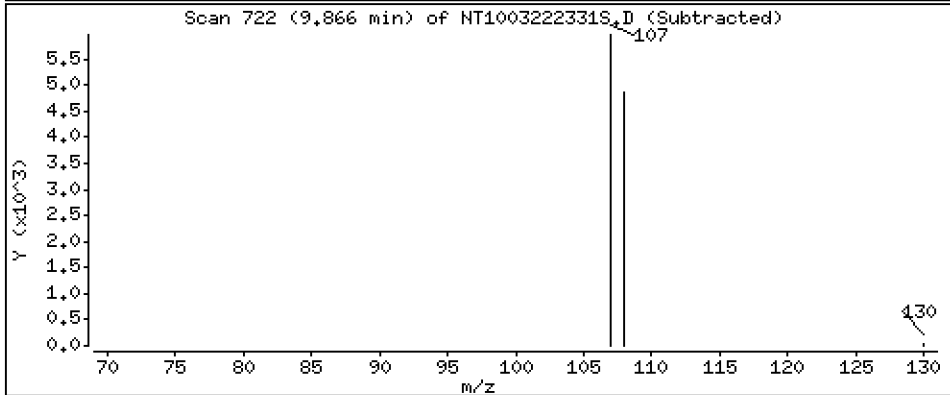
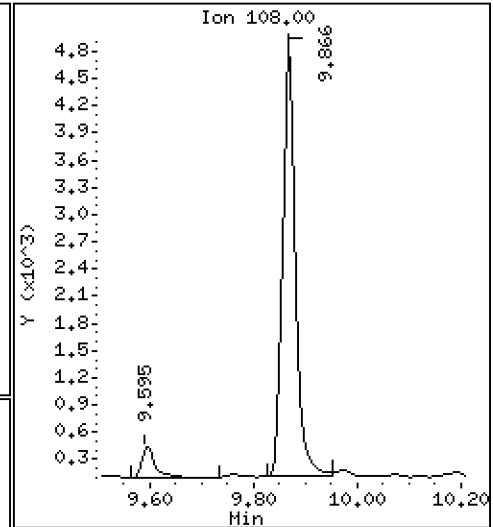
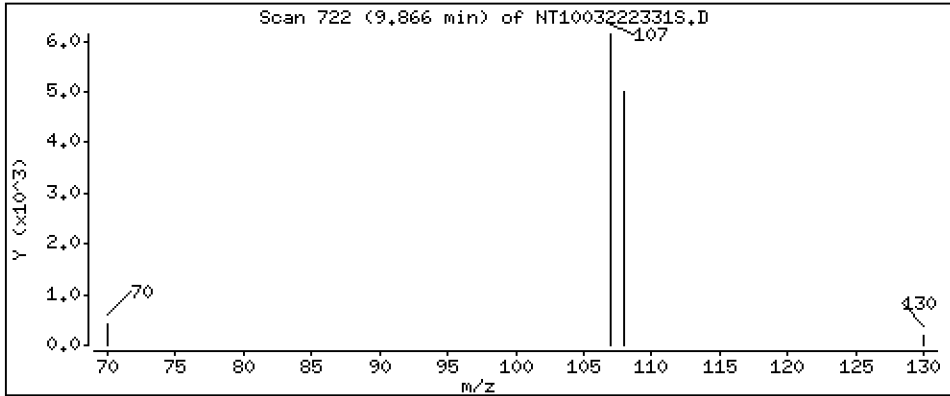
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 0.1701 ug/L



Date : 23-MAR-2023 12:05

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-03

Volume Injected (uL): 1.0

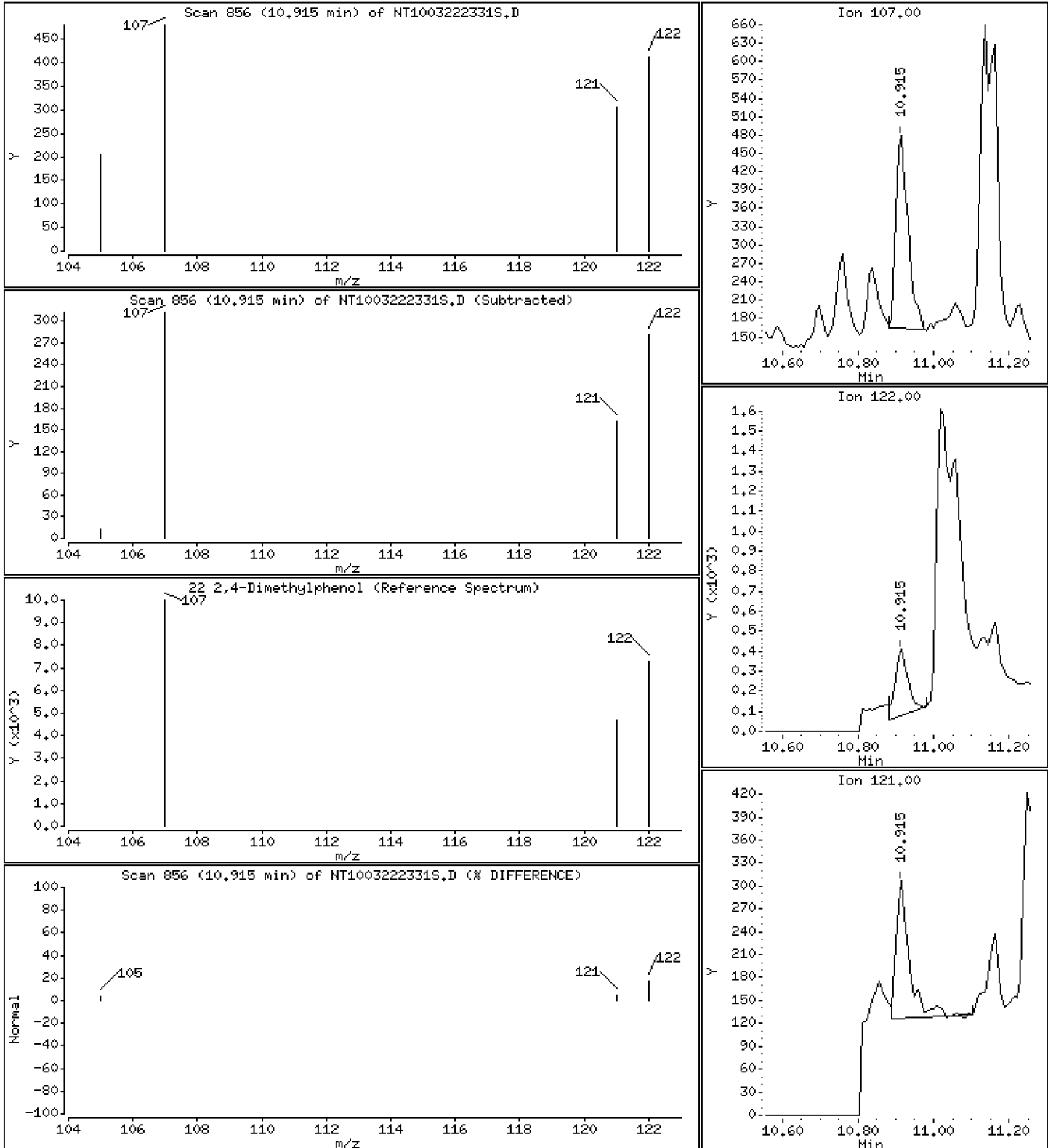
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

22 2,4-Dimethylphenol

Concentration: 0.01378 ug/L



Date : 23-MAR-2023 12:05

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-03

Volume Injected (uL): 1.0

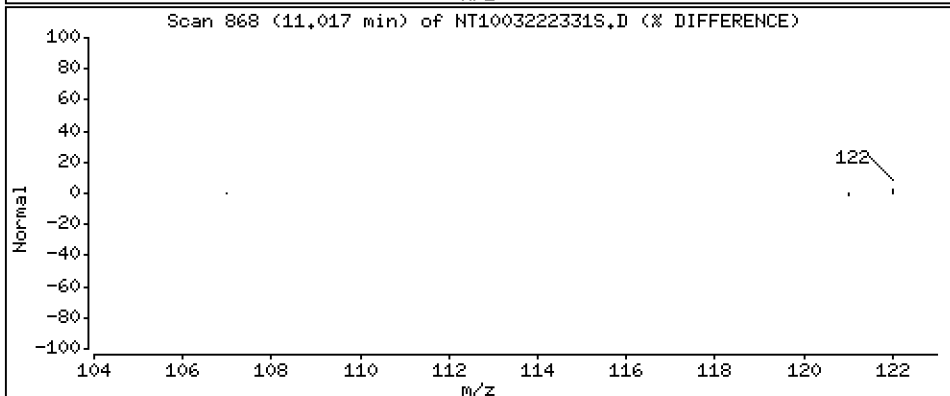
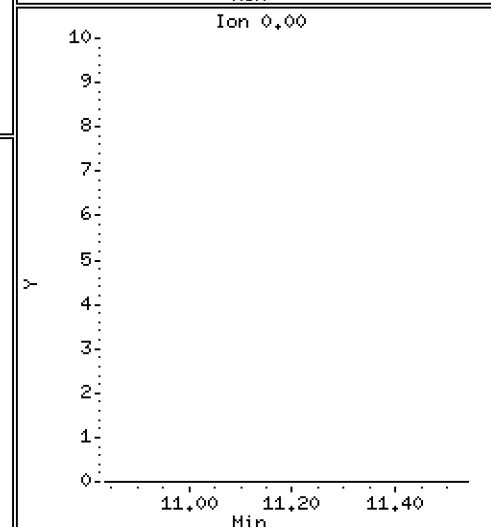
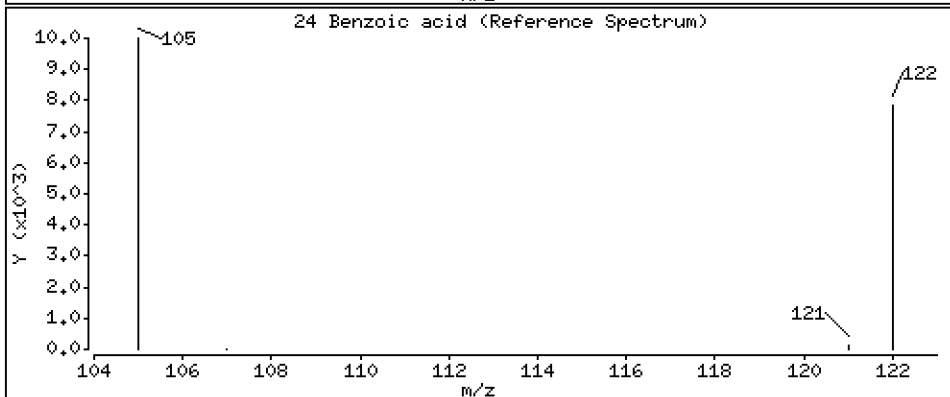
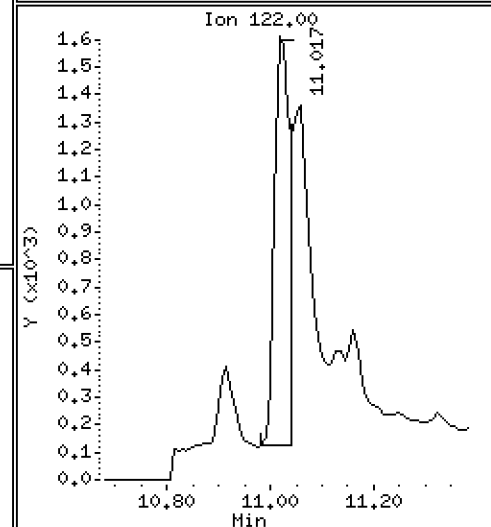
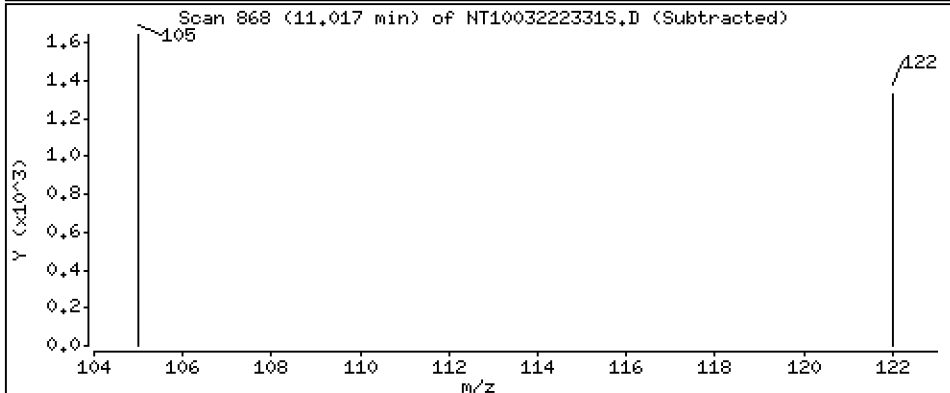
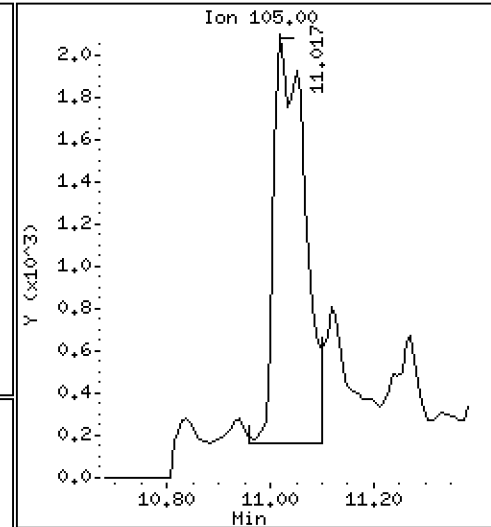
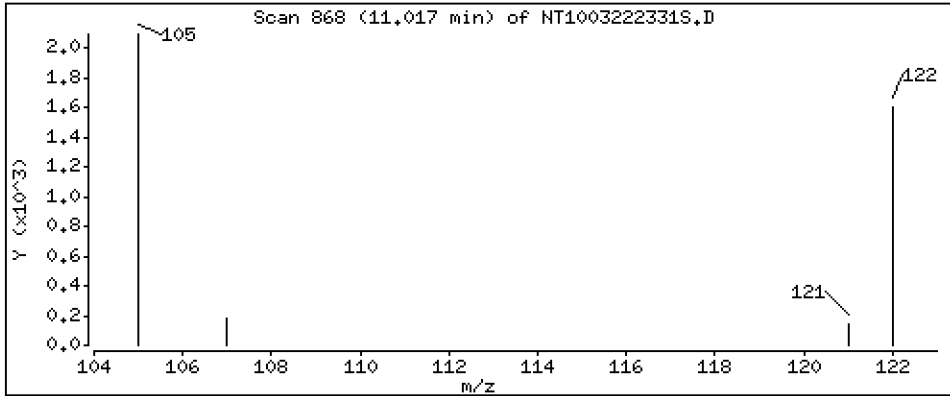
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

24 Benzoic acid

Concentration: 0.2940 ug/L



Date : 23-MAR-2023 12:05

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-03

Volume Injected (uL): 1.0

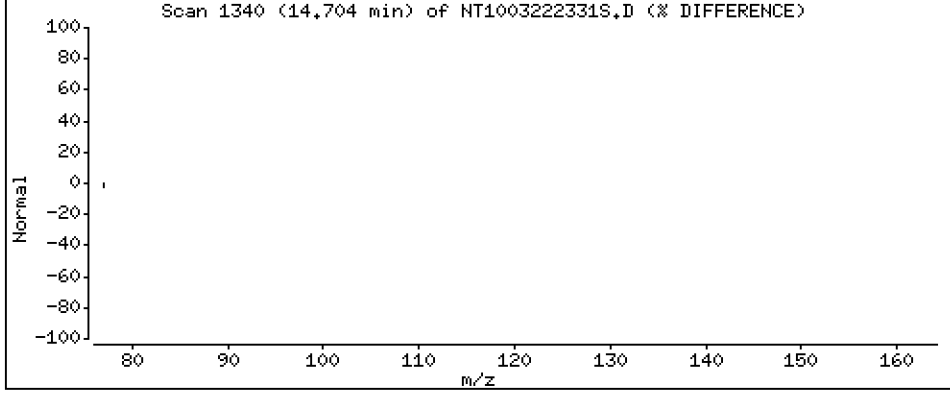
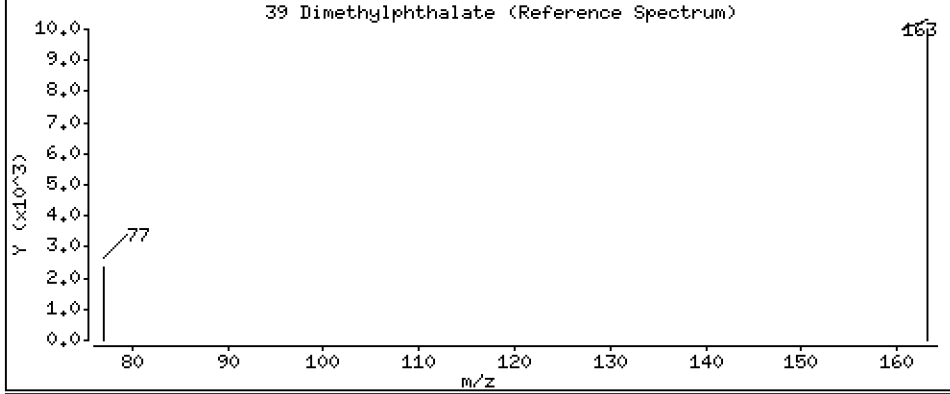
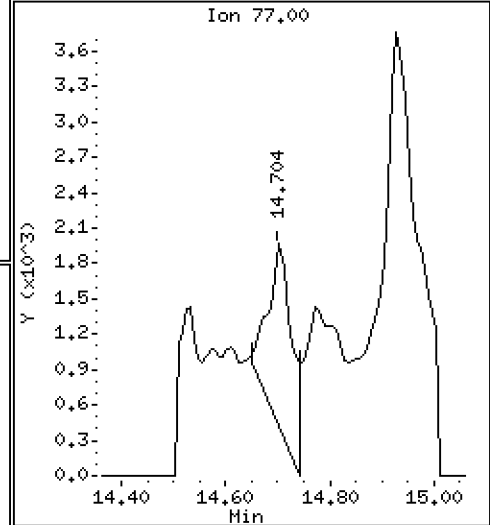
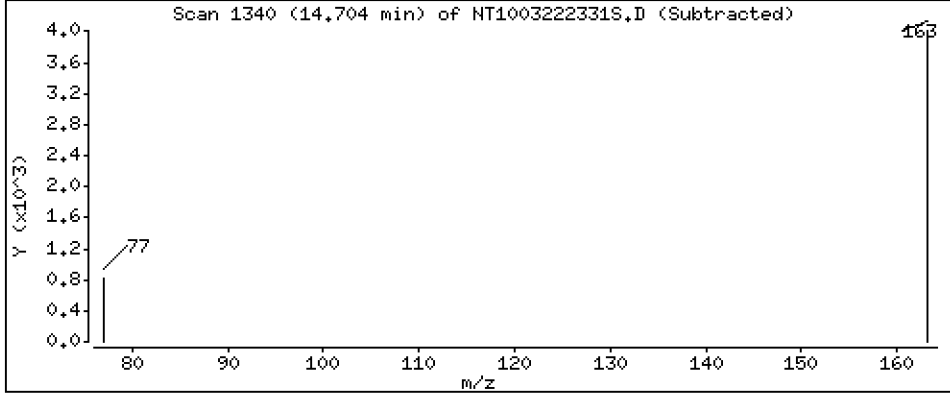
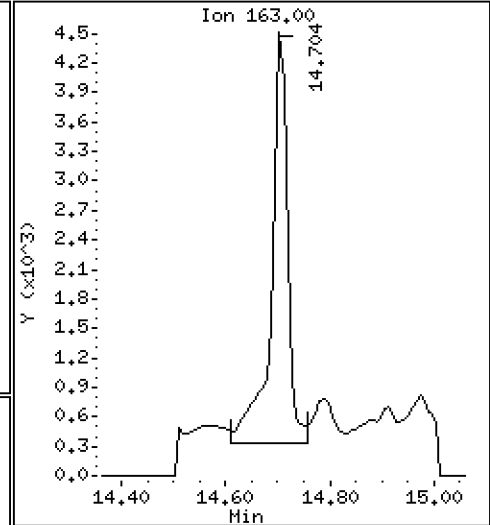
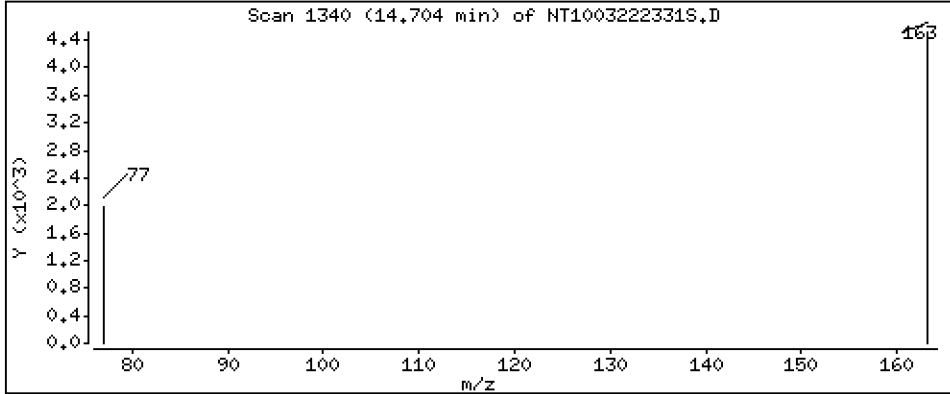
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

39 Dimethylphthalate

Concentration: 0.09715 ug/L



Date : 23-MAR-2023 12:05

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-03

Volume Injected (uL): 1.0

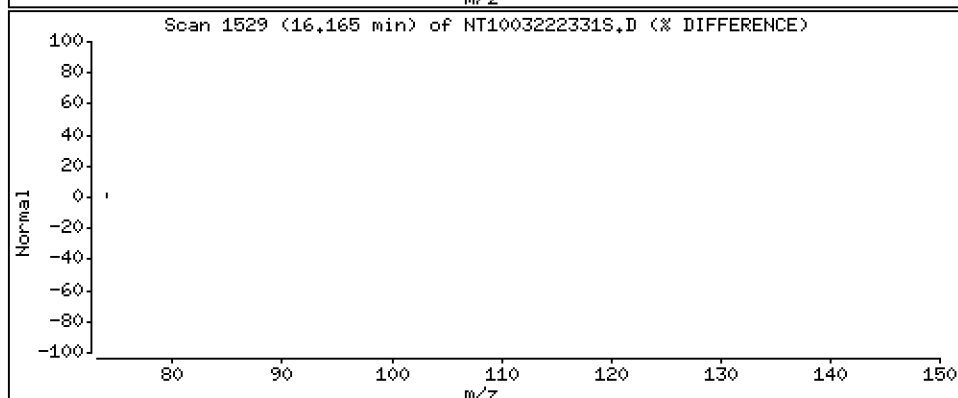
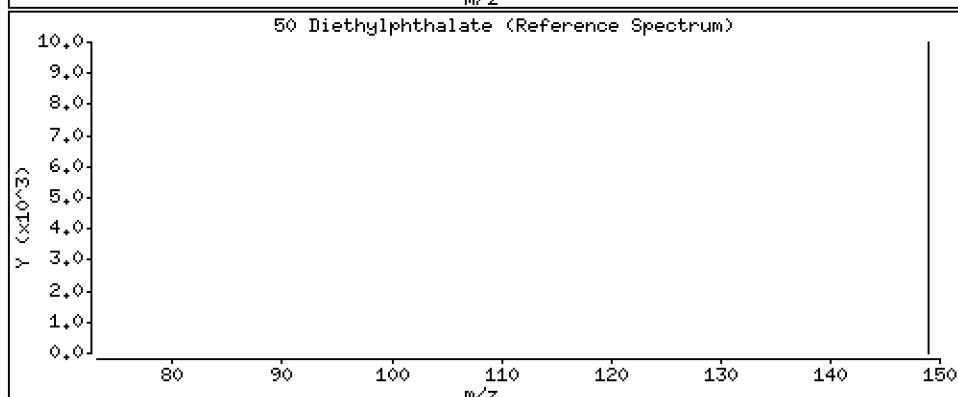
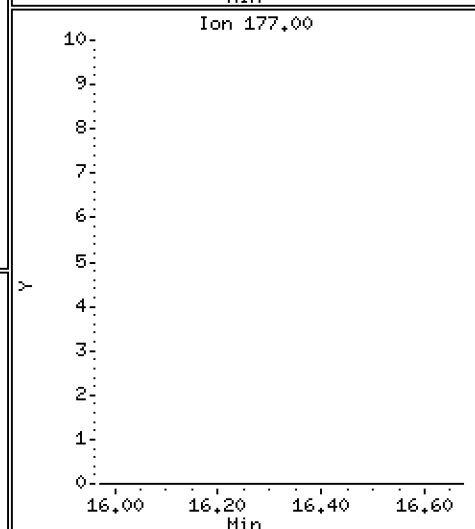
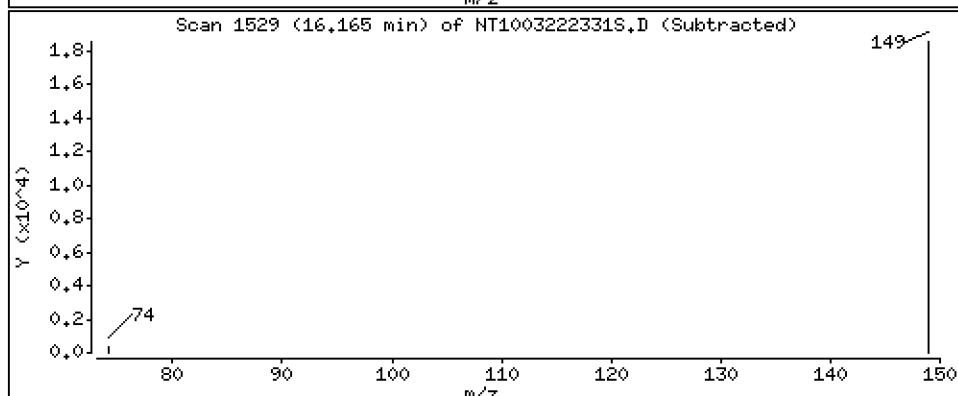
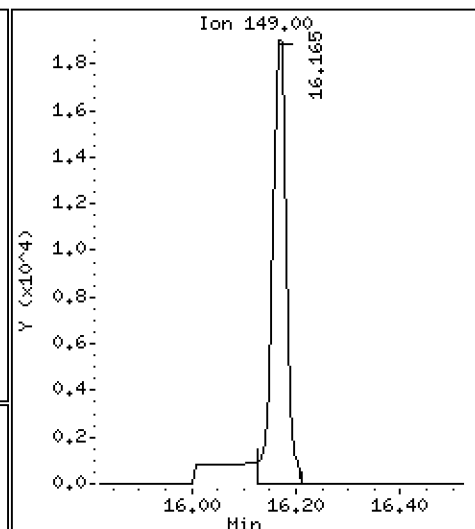
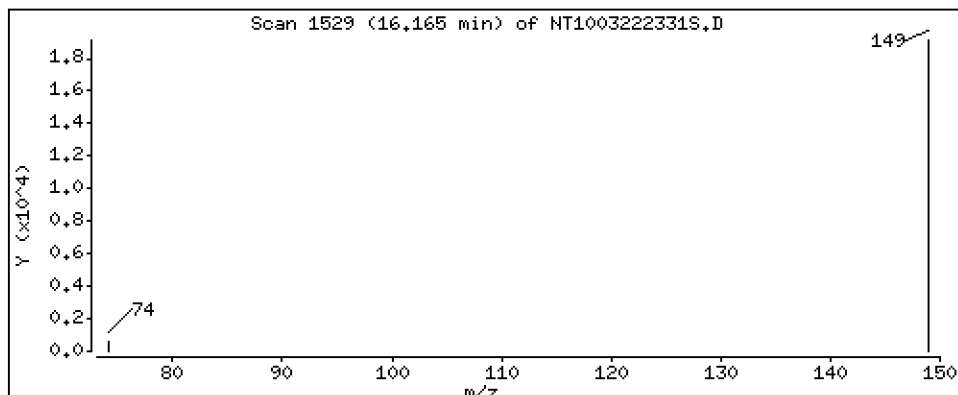
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 0,3688 ug/L



Date : 23-MAR-2023 12:05

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-03

Volume Injected (uL): 1.0

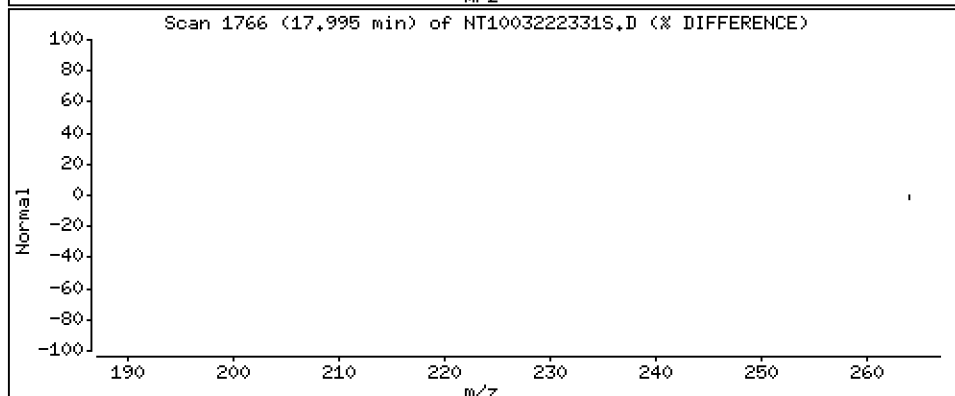
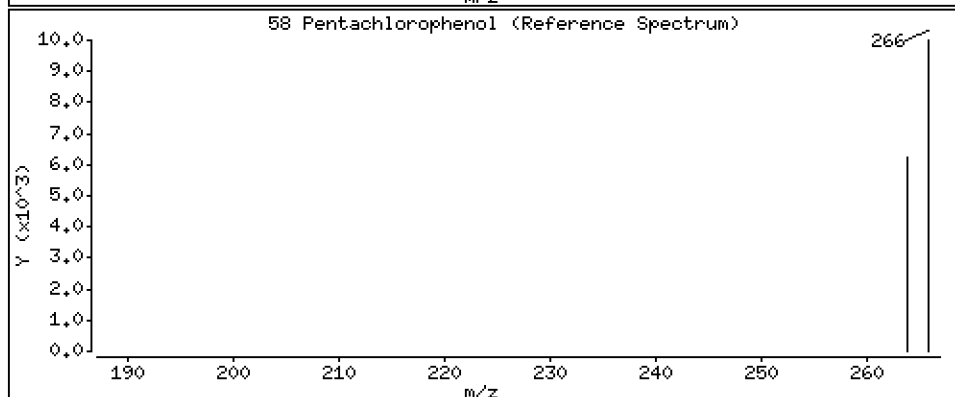
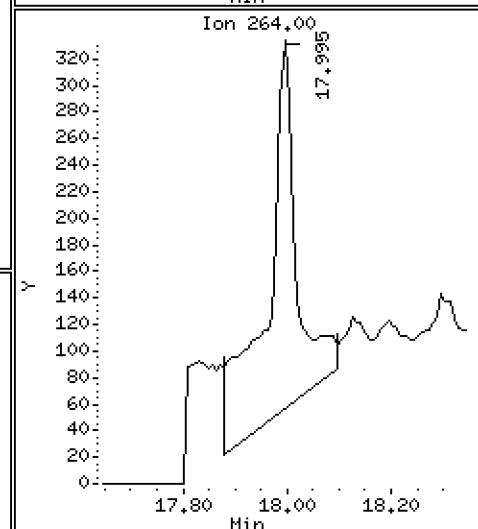
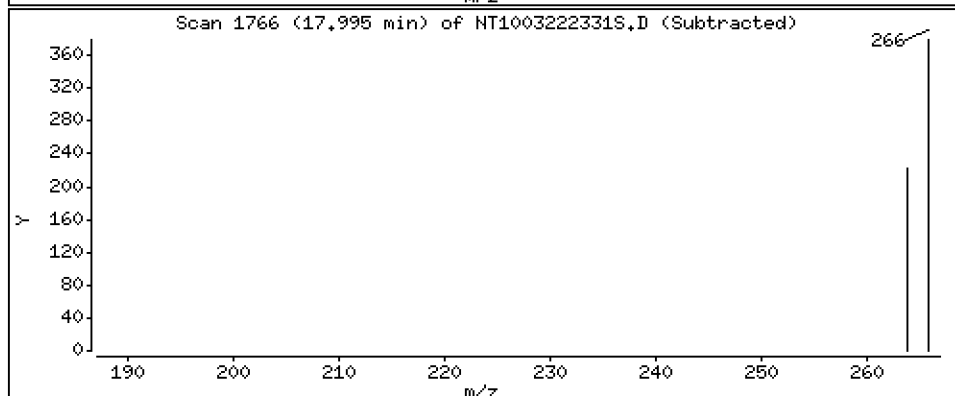
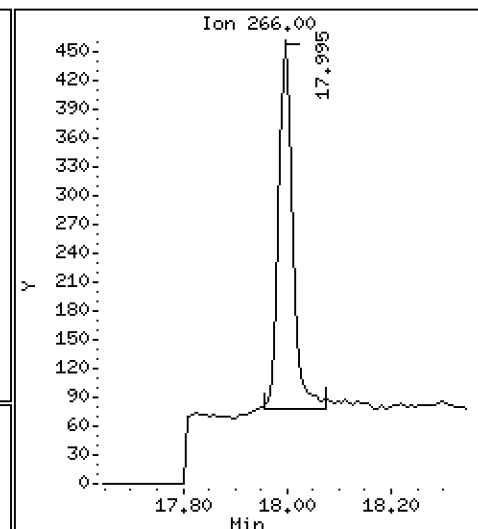
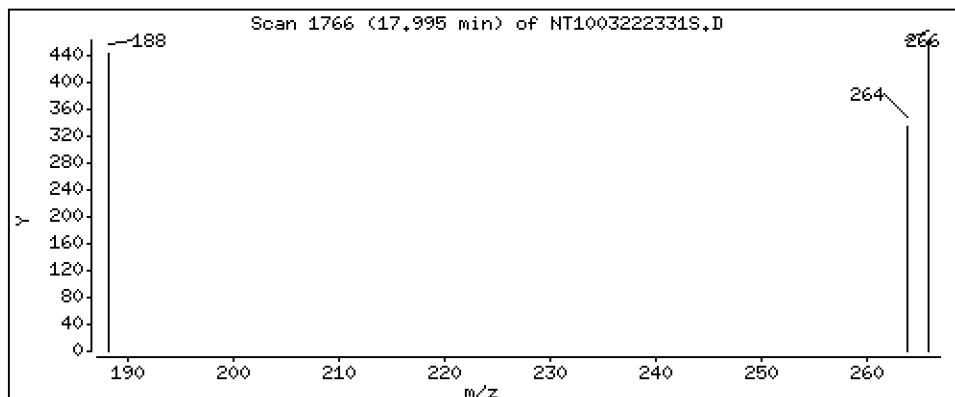
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 0,03414 ug/L



Date : 23-MAR-2023 12:05

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-03

Volume Injected (uL): 1.0

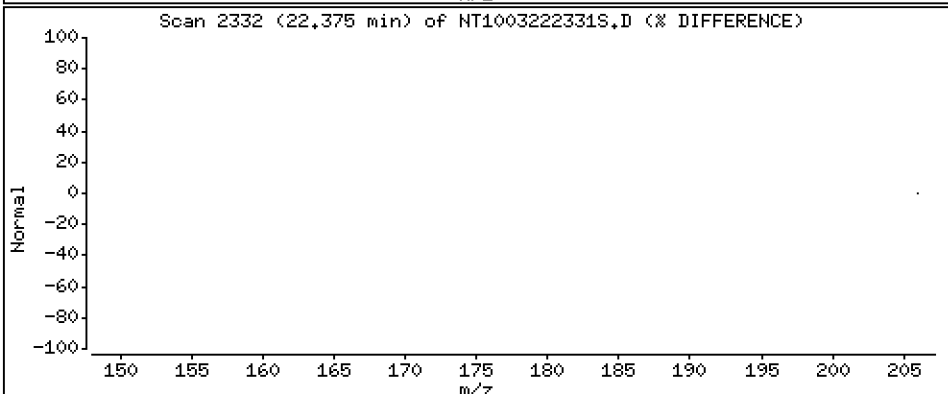
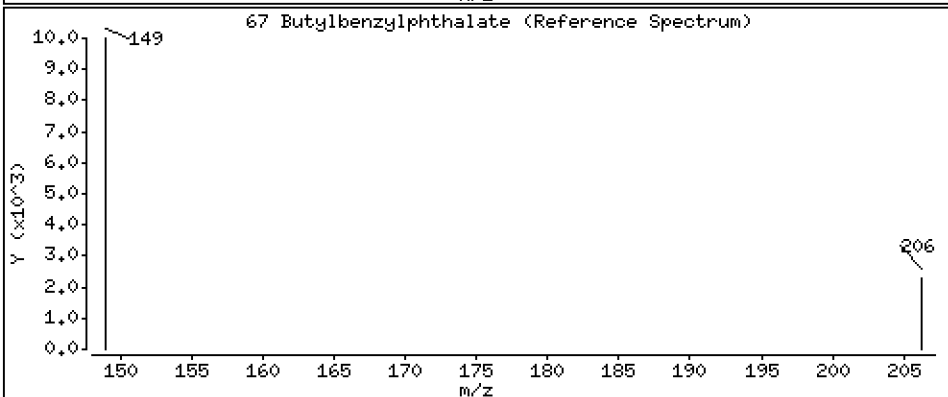
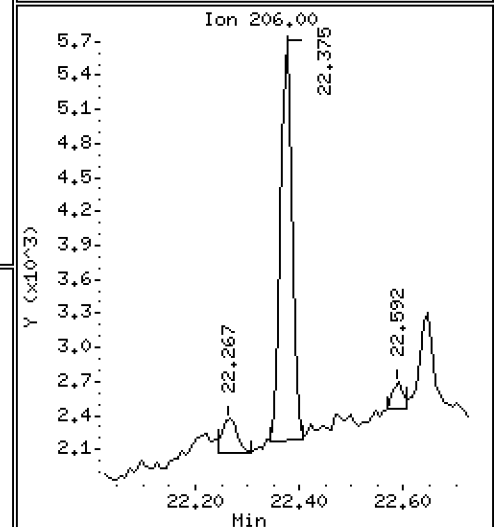
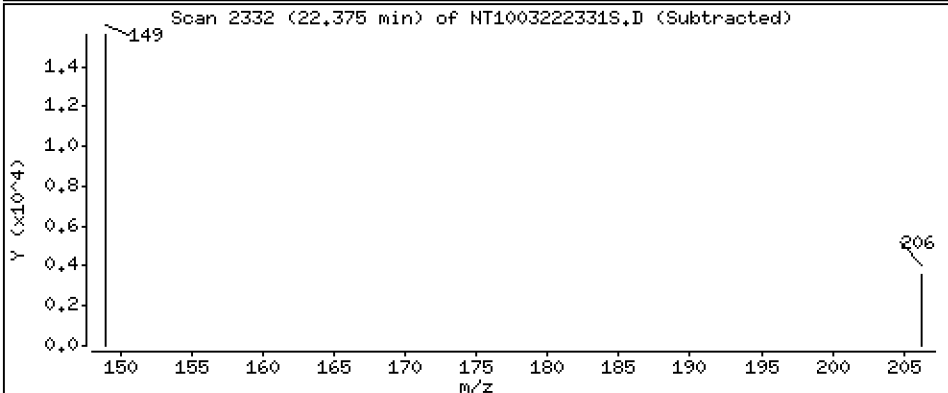
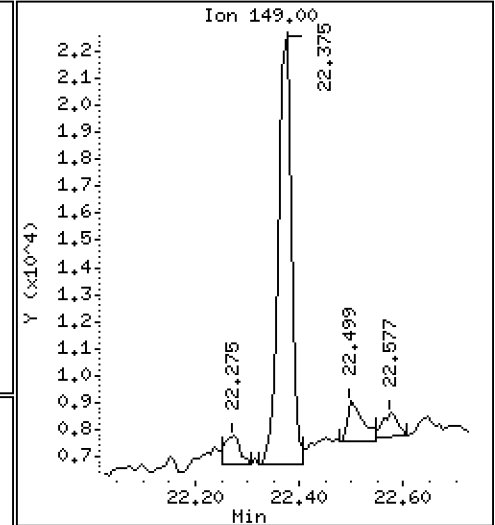
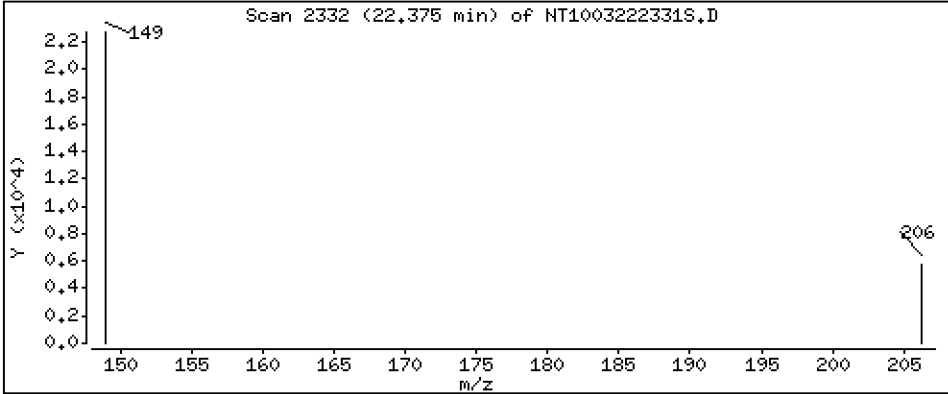
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

67 Butylbenzylphthalate

Concentration: 0.3587 ug/L



Date : 23-MAR-2023 12:05

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-03

Volume Injected (uL): 1.0

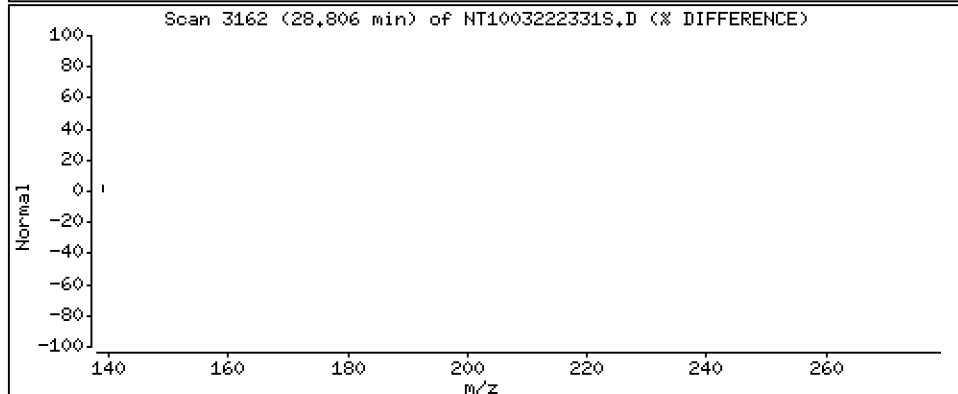
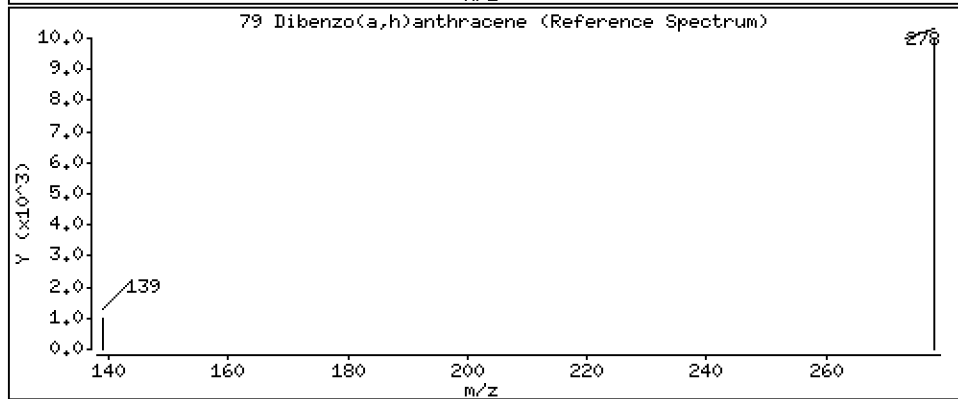
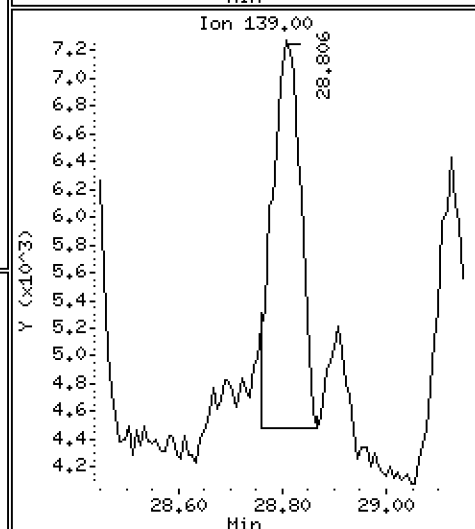
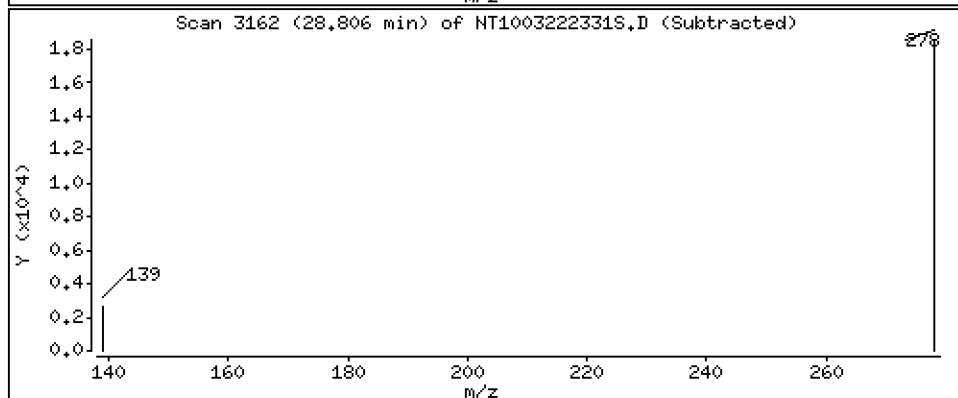
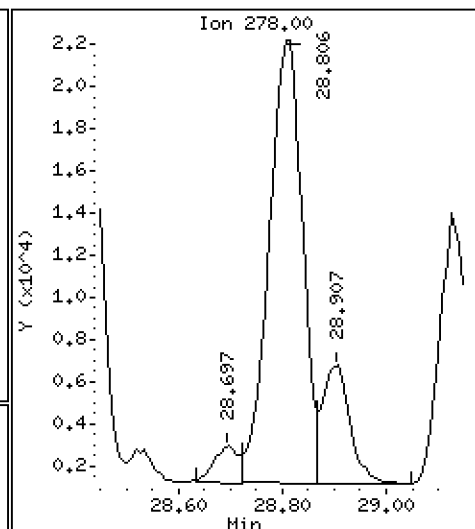
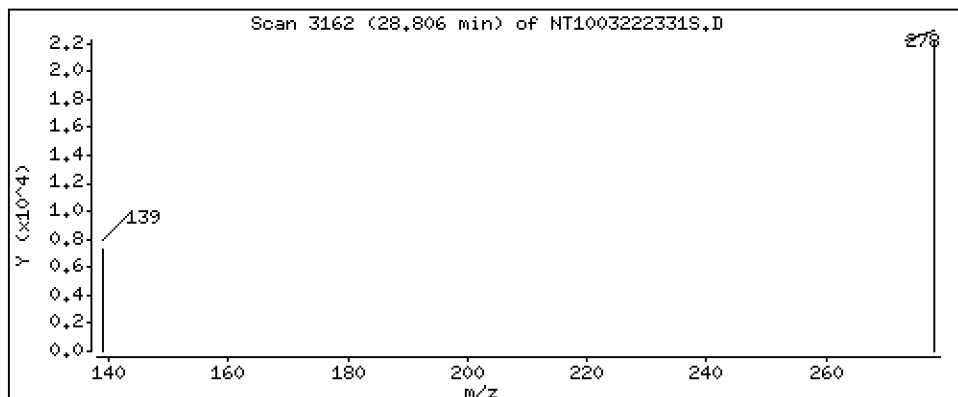
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 0,4797 ug/L



ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230322.b\SIM.b\NT1003222331S.D
 Lab Smp Id: 23A0180-03
 Inj Date : 23-MAR-2023 12:05 MS Autotune Date: 16-JAN-2023 17:42
 Operator : JGR Inst ID: nt10.i
 Smp Info : 23A0180-03
 Misc Info :
 Comment :
 Method : \\target\share\chem3\nt10.i\20230322.b\SIM.b\SIMABN2.m
 Meth Date : 25-Mar-2023 16:11 yev Quant Type: ISTD
 Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D
 Als bottle: 26
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: PSSDA.sub
 Target Version: 4.14
 Processing Host: ORGDATA102

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

| Name | Value | Description |
|---------------|----------|---------------------------------|
| DF | 1.000 | Dilution Factor |
| Vo | 1000.000 | Volume of sample extracted (mL) |
| Vt | 1000.000 | Volume of final extract (uL) |
| Vi | 1.000 | Volume injected (uL) |
| Uf | 1.000 | ng unit correction factor |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT | SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|-------------------------------|-------|-----|------------------------|--------|---------|----------|----------------|-------------|
| | | | | | | | ON-COLUMN | FINAL |
| | MASS | | | | | | (ug/mL) | (ug/L) |
| \$ 1 2-Fluorophenol | 112 | | 6.872 | 6.856 | (0.756) | 272899 | 5.65487 | 5.655 (R) |
| 3 Phenol | 94 | | 8.479 | 8.471 | (0.933) | 106165 | 1.60350 | 1.603 |
| 7 1,3-Dichlorobenzene | 146 | | Compound Not Detected. | | | | | |
| * 8 1,4-Dichlorobenzene-d4 | 152 | | 9.090 | 9.090 | (1.000) | 159142 | 4.00000 | |
| 9 1,4-Dichlorobenzene | 146 | | 9.121 | 9.121 | (1.003) | 1180 | 0.01973 | 0.01973 (M) |
| 11 Benzyl alcohol | 79 | | 9.361 | 9.361 | (1.030) | 5211 | 0.13576 | 0.1358 (M) |
| 12 1,2-Dichlorobenzene | 146 | | Compound Not Detected. | | | | | |
| 13 2-Methylphenol | 108 | | Compound Not Detected. | | | | | |
| 15 4-Methylphenol | 108 | | 9.866 | 9.858 | (1.085) | 8109 | 0.17010 | 0.1701 |
| 16 N-Nitroso-di-n-propylamine | 70 | | Compound Not Detected. | | | | | |
| 22 2,4-Dimethylphenol | 107 | | 10.914 | 10.906 | (0.943) | 689 | 0.01378 | 0.01378 (M) |
| 24 Benzoic acid | 105 | | 11.016 | 11.033 | (0.952) | 8041 | 0.29396 | 0.2940 (M) |
| 26 1,2,4-Trichlorobenzene | 180 | | Compound Not Detected. | | | | | |
| * 27 Naphthalene-d8 | 136 | | 11.577 | 11.577 | (1.000) | 578341 | 4.00000 | |
| 30 Hexachlorobutadiene | 225 | | Compound Not Detected. | | | | | |
| 39 Dimethylphthalate | 163 | | 14.703 | 14.711 | (0.967) | 8615 | 0.09715 | 0.09715 (M) |
| * 42 Acenaphthene-d10 | 162 | | 15.198 | 15.206 | (1.000) | 281002 | 4.00000 | |
| 50 Diethylphthalate | 149 | | 16.165 | 16.172 | (1.064) | 33875 | 0.36875 | 0.3688 |
| 54 N-Nitrosodiphenylamine | 169 | | Compound Not Detected. | | | | | |
| 57 Hexachlorobenzene | 284 | | Compound Not Detected. | | | | | |

| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|---------------------------|-----------|------------------------|--------|---------|----------|----------------------|------------------|
| | | | | | | ON-COLUMN (ug/mL) | FINAL (ug/L) |
| 58 Pentachlorophenol | 266 | 17.995 | 17.995 | (0.986) | 692 | 0.03414 | 0.03414 (M) |
| * 59 Phenanthrene-d10 | 188 | 18.258 | 18.258 | (1.000) | 611326 | 4.00000 | |
| \$ 66 Terphenyl-d14 | 244 | 21.438 | 21.438 | (0.918) | 521608 | 5.75233 | 5.752 (R) |
| 67 Butylbenzylphthalate | 149 | 22.375 | 22.375 | (0.958) | 26335 | 0.35873 | 0.3587 |
| * 69 Chrysene-d12 | 240 | 23.358 | 23.350 | (1.000) | 556524 | 4.00000 | |
| * 77 Perylene-d12 | 264 | 26.052 | 26.037 | (1.000) | 602291 | 4.00000 | |
| 79 Dibenzo(a,h)anthracene | 278 | 28.806 | 28.798 | (1.106) | 94588 | 0.47966 | 0.4797 |
| 90 N-Nitrosodimethylamine | 74 | Compound Not Detected. | | | | | |

QC Flag Legend

- R - Spike/Surrogate failed recovery limits.
- M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i
 Lab File ID: NT1003222331S.D
 Lab Smp Id: 23A0180-03
 Analysis Type: SV
 Quant Type: ISTD
 Operator: JGR
 Method File: \\target\share\chem3\nt10.i\20230322.b\SIM.b\SIMABN2.m
 Misc Info:

Calibration Date: 23-MAR-2023
 Calibration Time: 03:52
 Level: LOW
 Sample Type: AIR

Test Mode:
 Use Last Continuing Calibrator.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|------------|---------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 140507 | 70254 | 281014 | 159142 | 13.26 |
| 27 Naphthalene-d8 | 499190 | 249595 | 998380 | 578341 | 15.86 |
| 42 Acenaphthene-d10 | 250303 | 125152 | 500606 | 281002 | 12.26 |
| 59 Phenanthrene-d10 | 496896 | 248448 | 993792 | 611326 | 23.03 |
| 69 Chrysene-d12 | 465837 | 232919 | 931674 | 556524 | 19.47 |
| 77 Perylene-d12 | 551078 | 275539 | 1102156 | 602291 | 9.29 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 9.09 | 8.59 | 9.59 | 9.09 | 0.00 |
| 27 Naphthalene-d8 | 11.58 | 11.08 | 12.08 | 11.58 | 0.00 |
| 42 Acenaphthene-d10 | 15.21 | 14.71 | 15.71 | 15.20 | -0.05 |
| 59 Phenanthrene-d10 | 18.26 | 17.76 | 18.76 | 18.26 | 0.00 |
| 69 Chrysene-d12 | 23.35 | 22.85 | 23.85 | 23.36 | 0.03 |
| 77 Perylene-d12 | 26.04 | 25.54 | 26.54 | 26.05 | 0.06 |

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

REVIEW SUMMARY FOR FILE - NT1003222331S.D

Lab ID: 23A0180-03

nt10.i, 20230322.b\SIM.b\SIMABN2.m, 23-MAR-2023 12:05

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

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

NONE

RRT check based on Ccal File: SIM.b/NT1003222318S.D

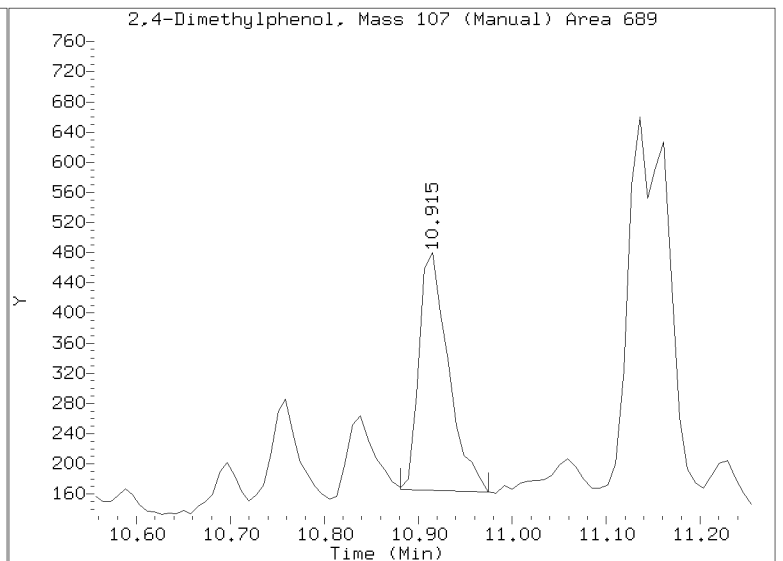
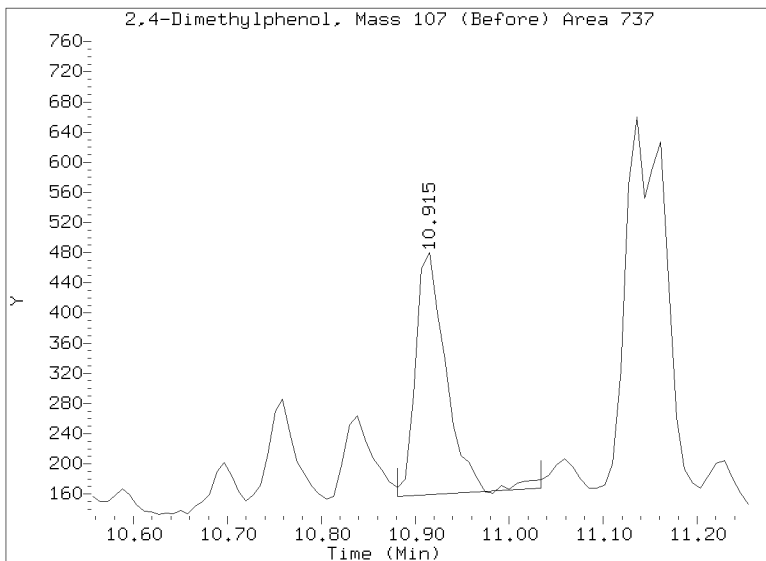
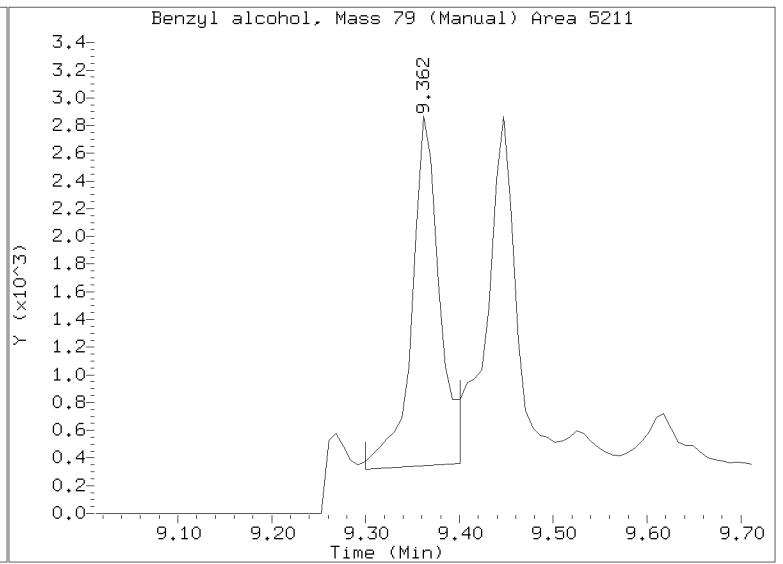
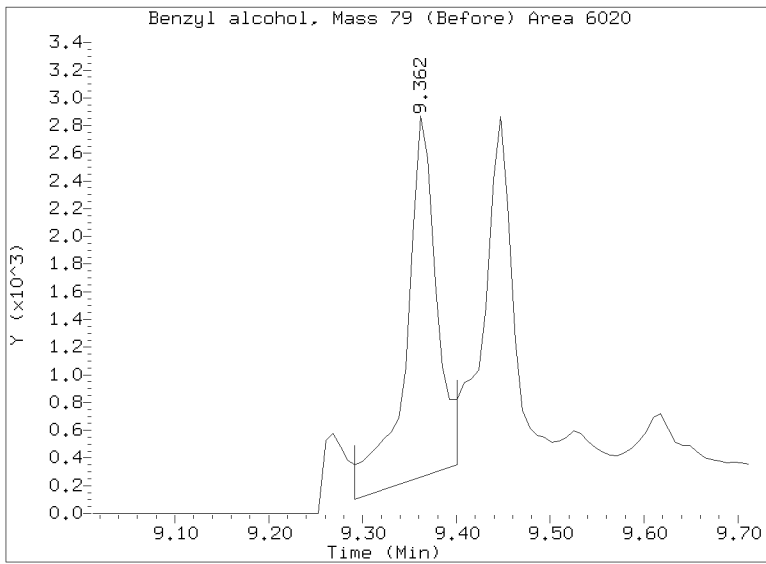
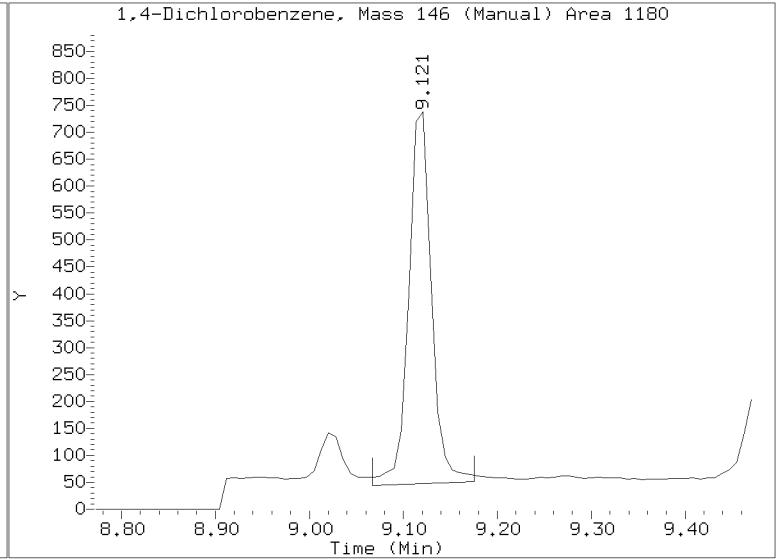
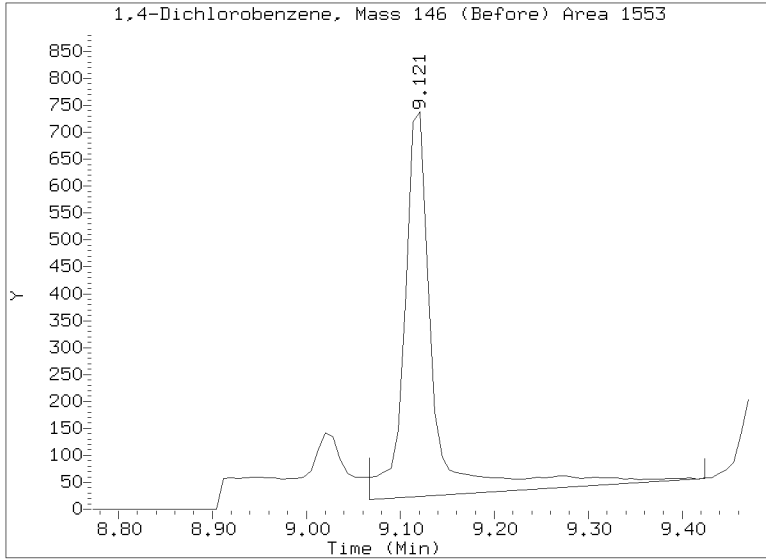
On Column LOD for nt10.i, SIM.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

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

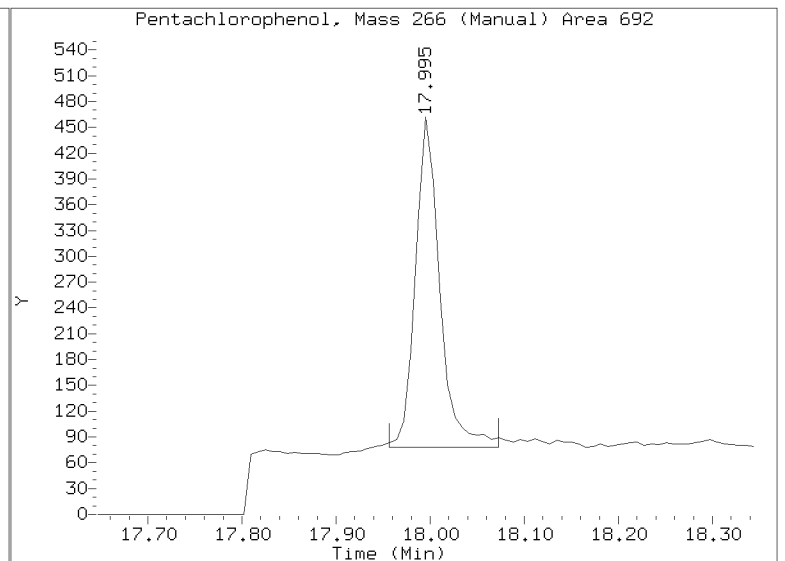
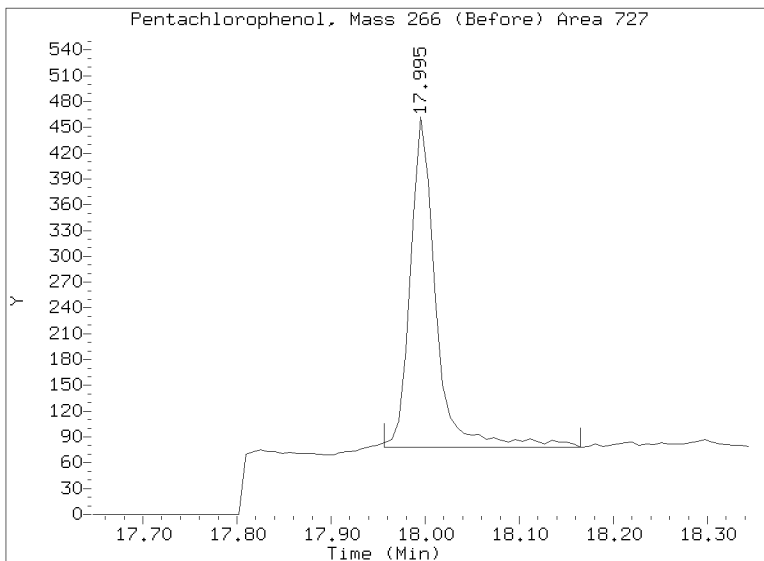
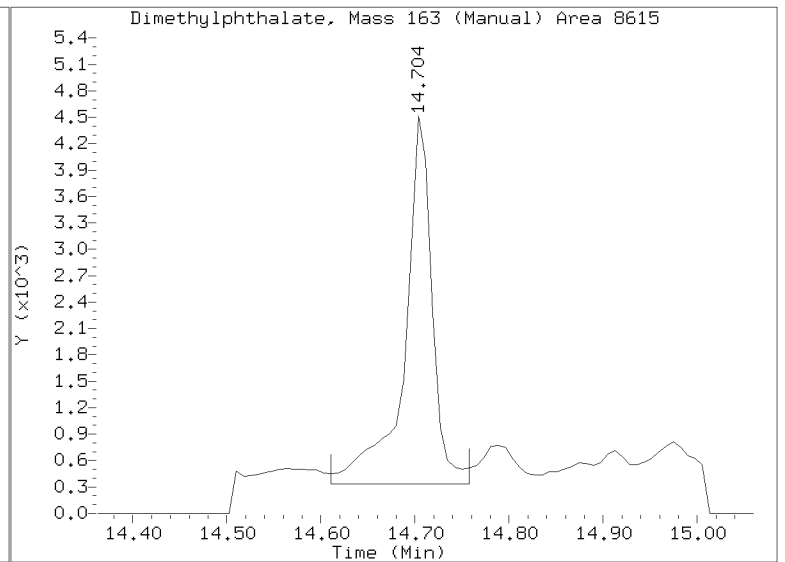
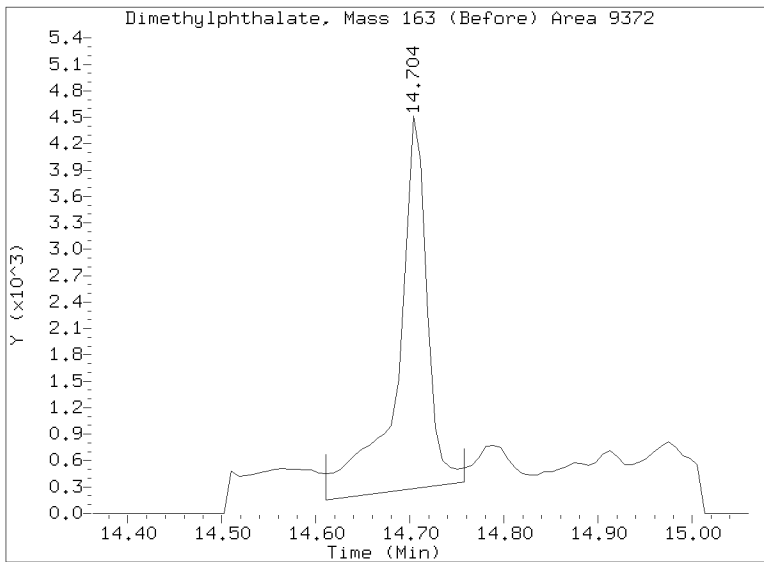
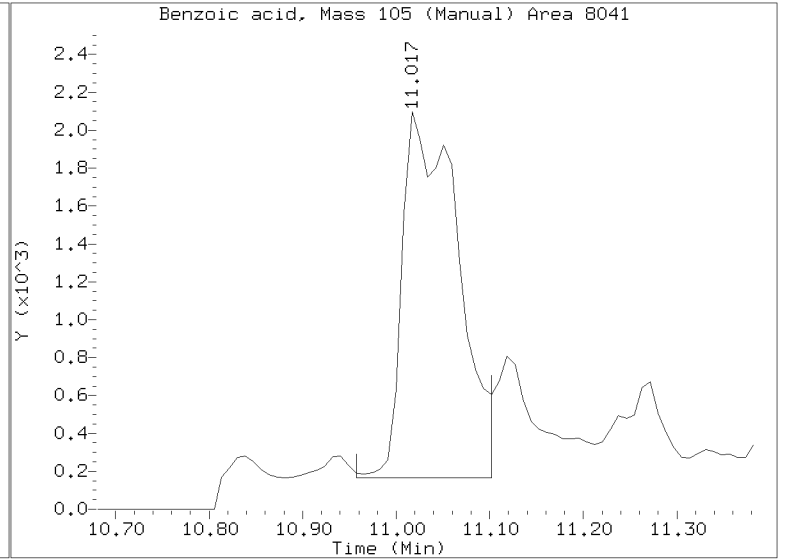
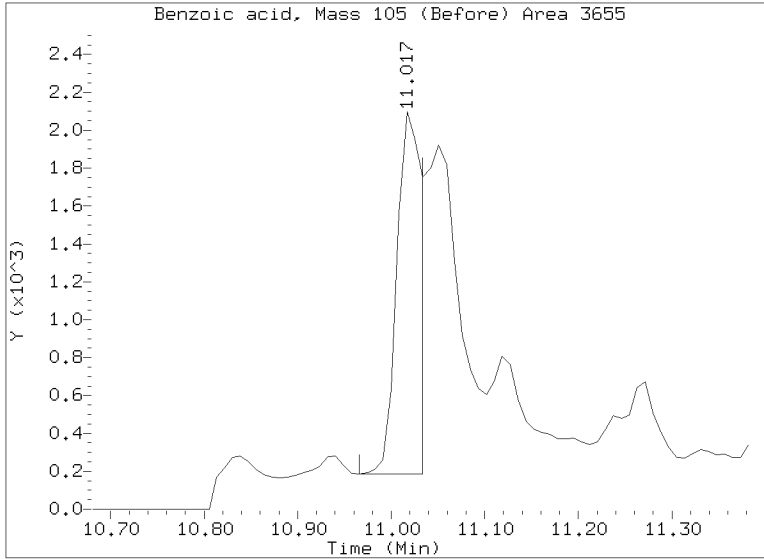
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230322.b/SIM.b/NT1003222331S.D
Injection Date: 23-MAR-2023 12:05
Lab ID:23A0180-03 Client ID:
Report Date: 03/25/2023 16:12



Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230322.b/SIM.b/NT1003222331S.D
Injection Date: 23-MAR-2023 12:05
Lab ID:23A0180-03 Client ID:
Report Date: 03/25/2023 16:12





Form I
ORGANIC ANALYSIS DATA SHEET
EPA 8270E-SIM
SIM SVOC Organics (Dual scan list)

Laboratory: Analytical Resources, LLC

Client: Anchor OEA, LLC

Project: AOC5 MR Phase 1

Matrix: Sediment

Laboratory ID: 23A0180-04RE1 A

SDG: 23A0180

Sampled: 01/10/23 09:07

Prepared: 03/17/23 14:20

File ID: NT1003222332S.D

% Solids: 56.10

Preparation: EPA 3546 (Microwave)

Analyzed: 03/23/23 12:44

Batch: BLC0442

Sequence: SLC0407

Initial/Final: 17.94 g Wet / 1 mL

Instrument: NT10

Column: ZB-5MSi

Calibration: GC00049

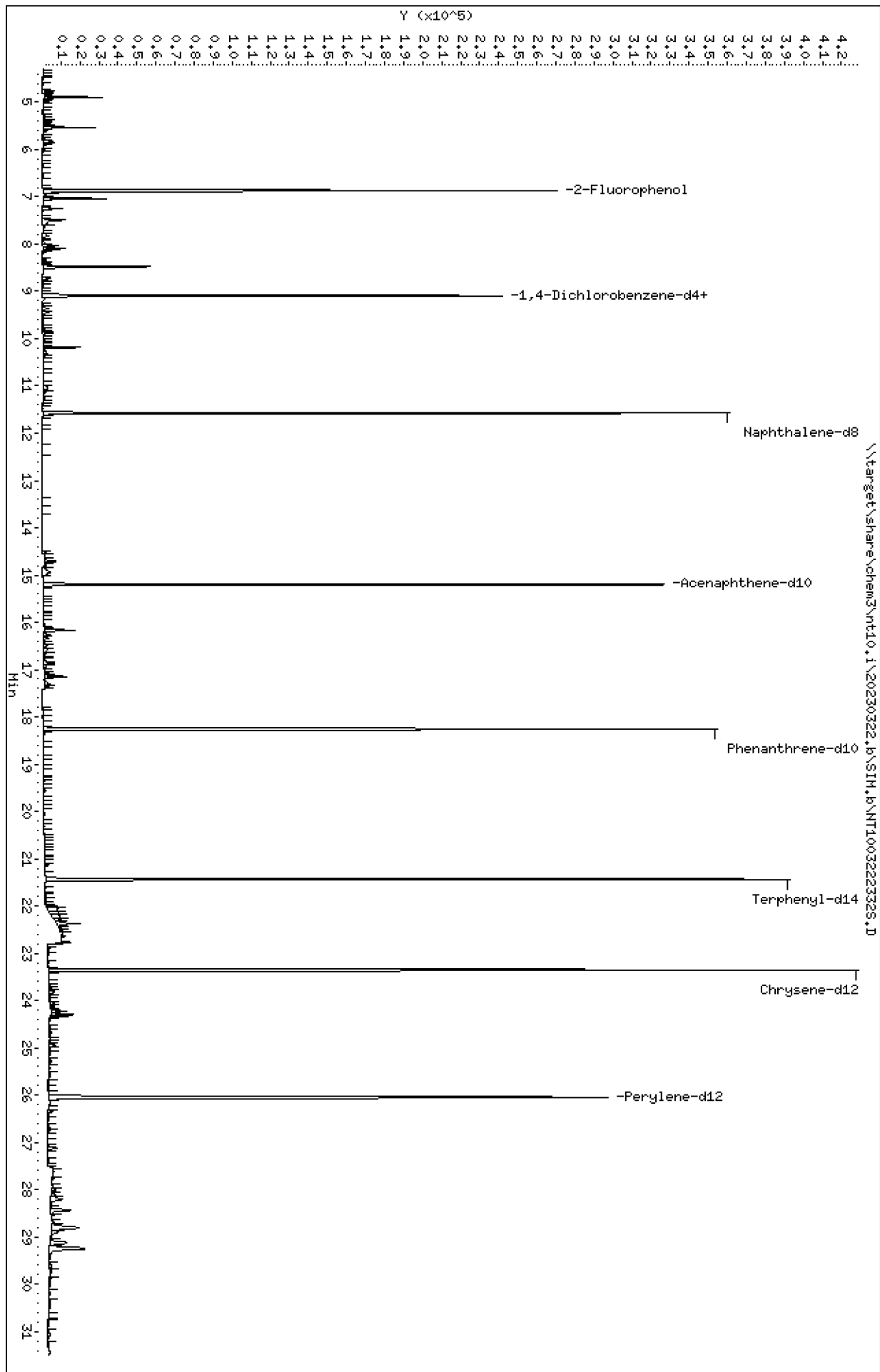
Cleanups: GPC

| CAS NO. | COMPOUND | DILUTION | CONC: (ug/kg dry) | Q | DL | RL |
|----------|------------------------|----------|----------------------|---|------|------|
| 106-46-7 | 1,4-Dichlorobenzene | 1 | 2.6 | J | 0.6 | 5.0 |
| 95-50-1 | 1,2-Dichlorobenzene | 1 | 5.0 | U | 0.7 | 5.0 |
| 100-51-6 | Benzyl Alcohol | 1 | 11.9 | J | 2.5 | 19.9 |
| 65-85-0 | Benzoic acid | 1 | 27.2 | J | 13.3 | 99.4 |
| 105-67-9 | 2,4-Dimethylphenol | 1 | 19.9 | U | 2.2 | 19.9 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1 | 5.0 | U | 2.7 | 5.0 |
| 86-30-6 | N-Nitrosodiphenylamine | 1 | 5.0 | U | 1.3 | 5.0 |
| 87-86-5 | Pentachlorophenol | 1 | 3.0 | J | 2.1 | 19.9 |

| SURROGATES | ADDED: (ug/kg dry) | FOUND: (ug/kg dry) | % REC | QC LIMITS | Q |
|-----------------|-----------------------|-----------------------|-------|-----------|---|
| 2-Fluorophenol | 745.21 | 587 | 78.7 | 27 - 120 | |
| p-Terphenyl-d14 | 496.80 | 565 | 114 | 37 - 120 | |

Data File: \\target\share\chem3\nt10.1\20230322.16\SIM.B\NT1003222332S.D
Date: 23-MAR-2023 12:44
Client ID:
Sample Info: 23A0180-04
Volume Injected (uL): 1.0
Column phase: ZB-5msi

Instrument: nt10.1
Operator: JGR
Column diameter: 0.25



Date : 23-MAR-2023 12:44

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-04

Volume Injected (uL): 1.0

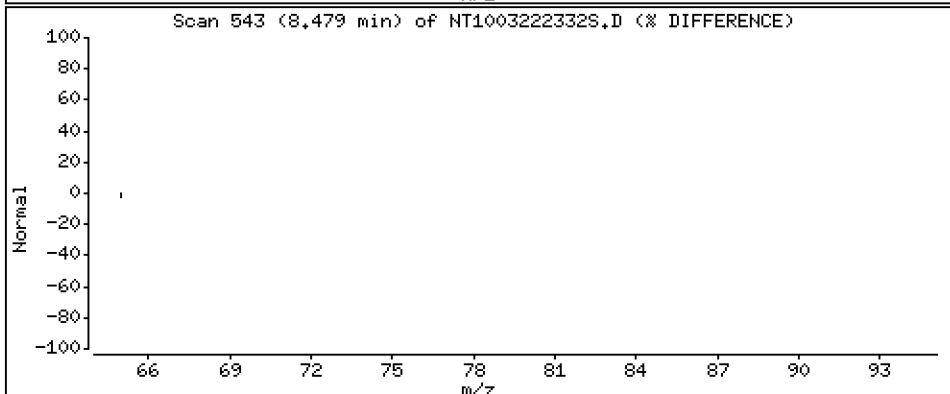
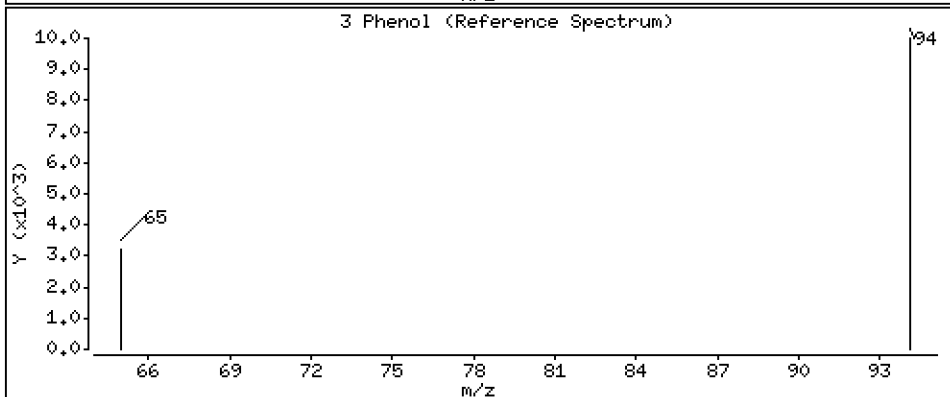
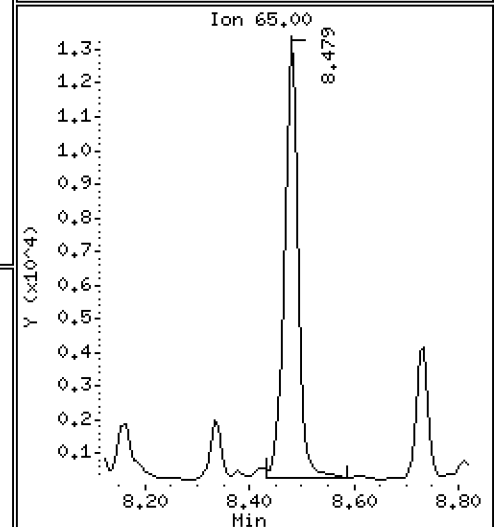
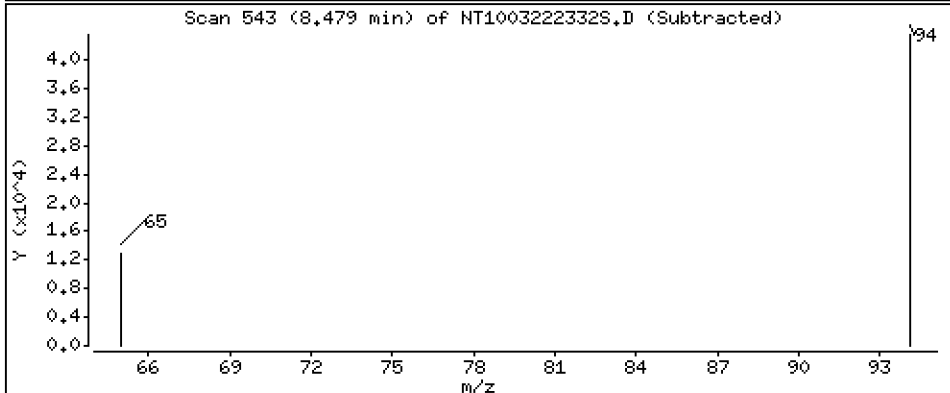
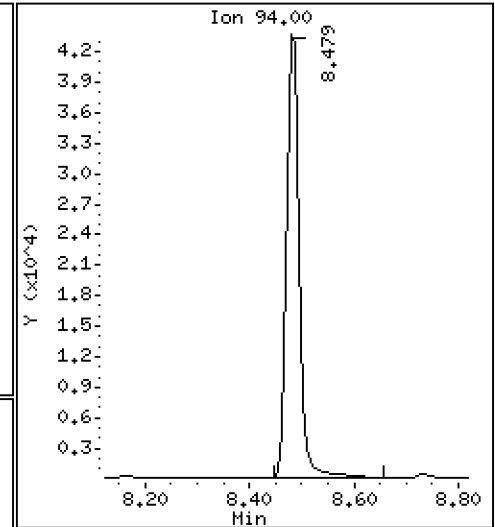
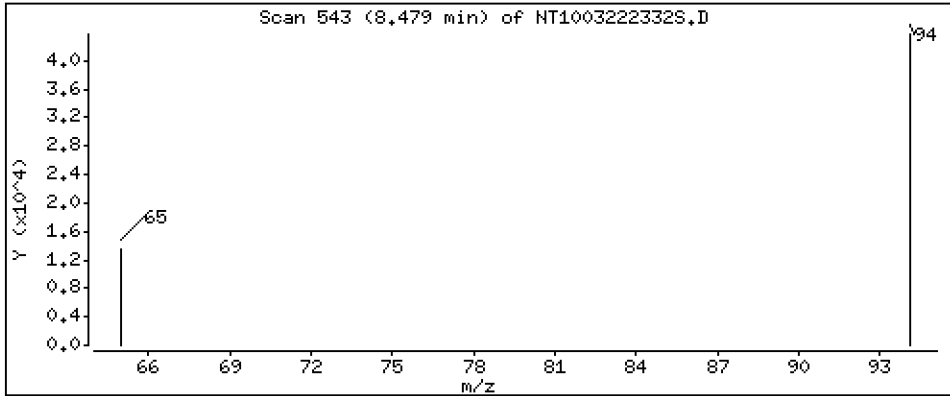
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

3 Phenol

Concentration: 1.148 ug/L



Date : 23-MAR-2023 12:44

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-04

Volume Injected (uL): 1.0

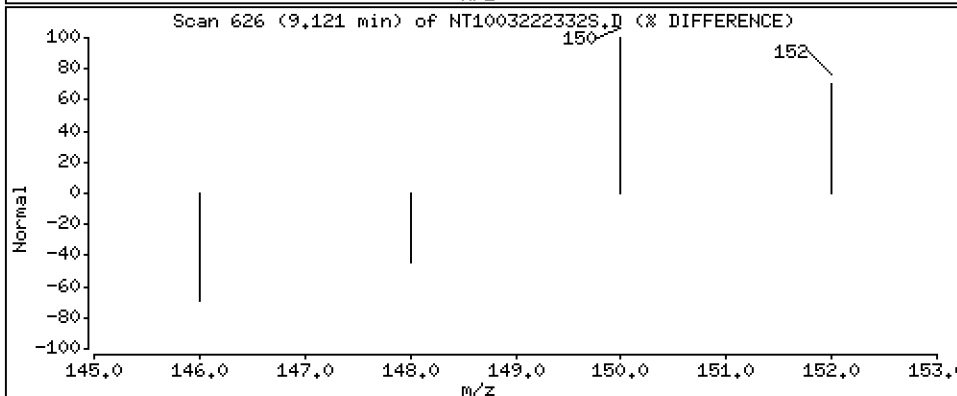
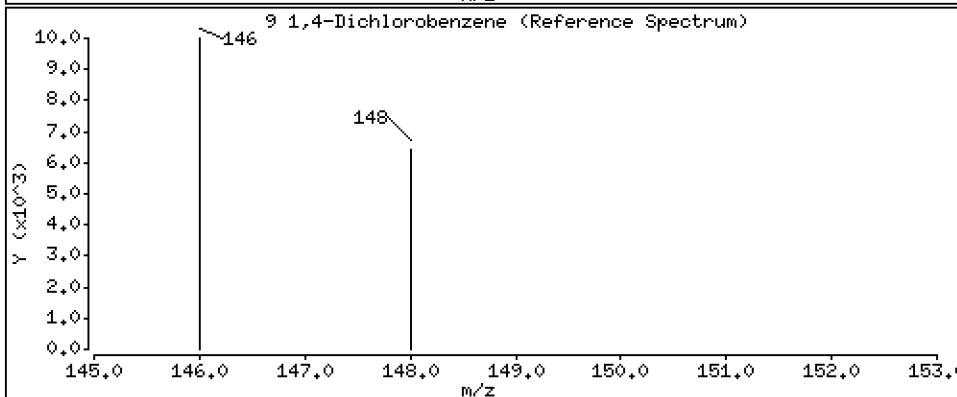
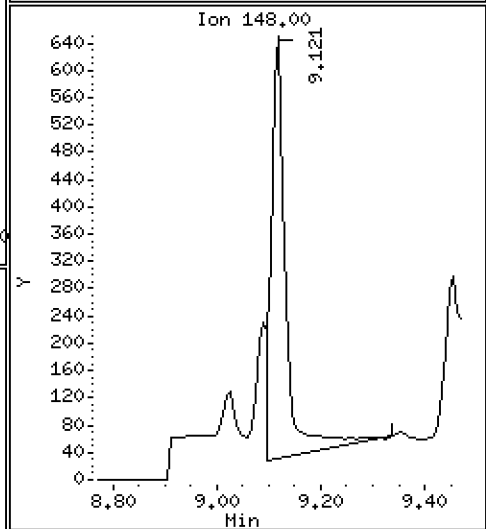
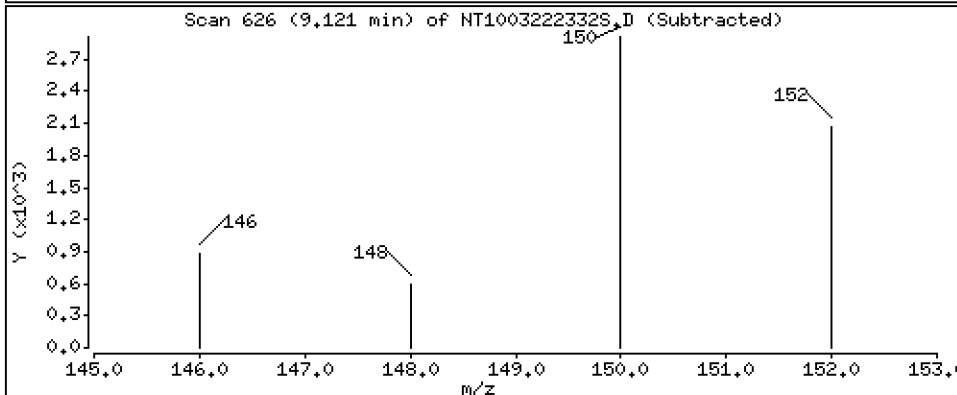
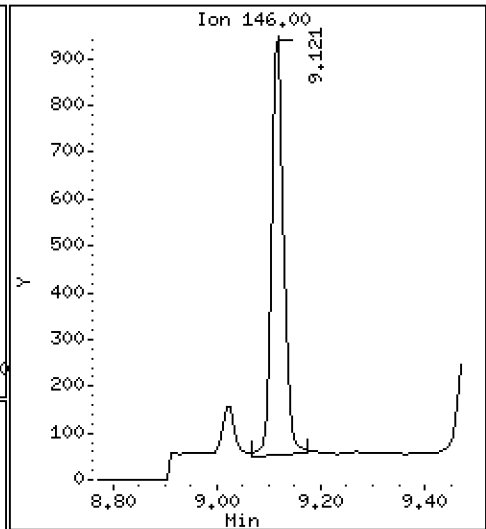
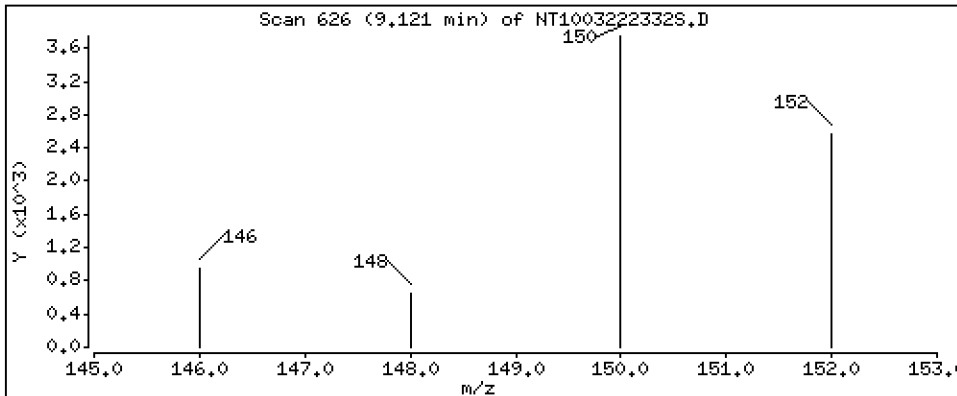
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 0,02608 ug/L



Date : 23-MAR-2023 12:44

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-04

Volume Injected (uL): 1.0

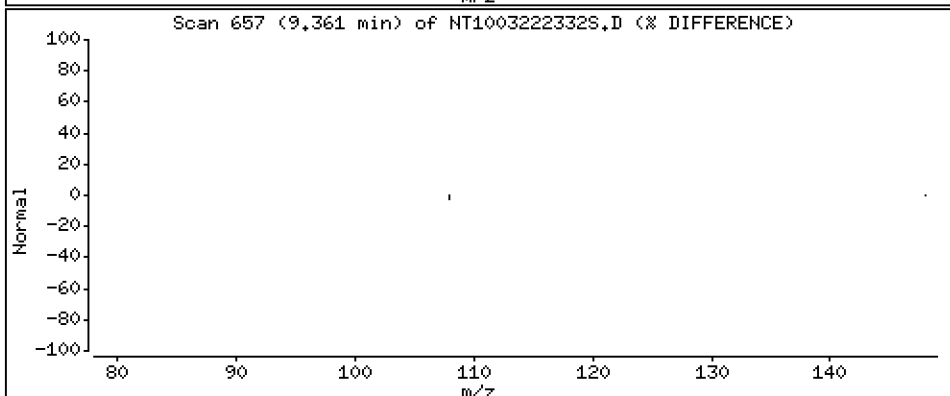
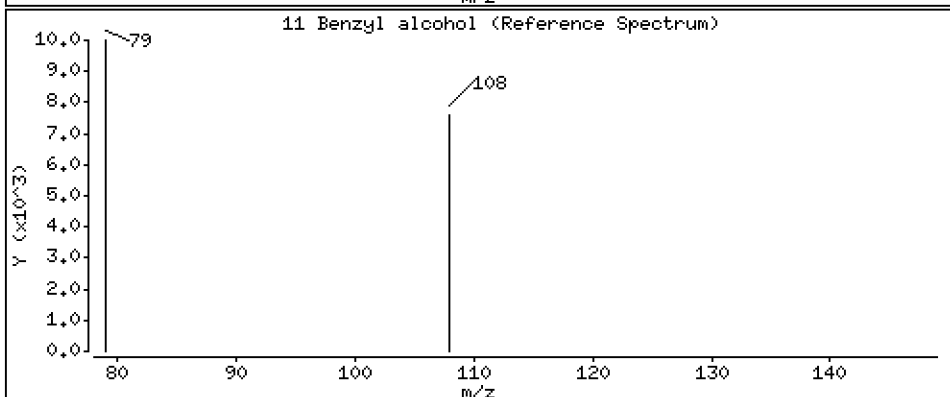
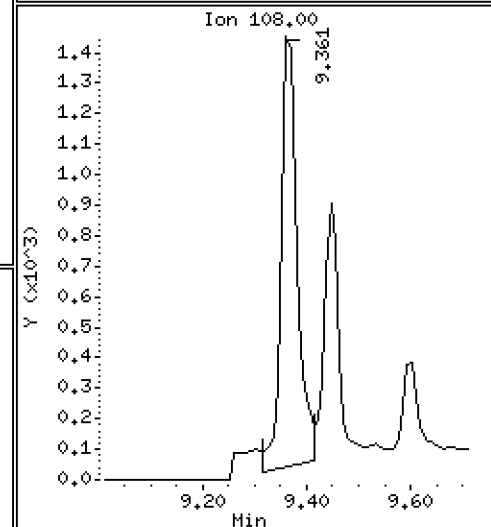
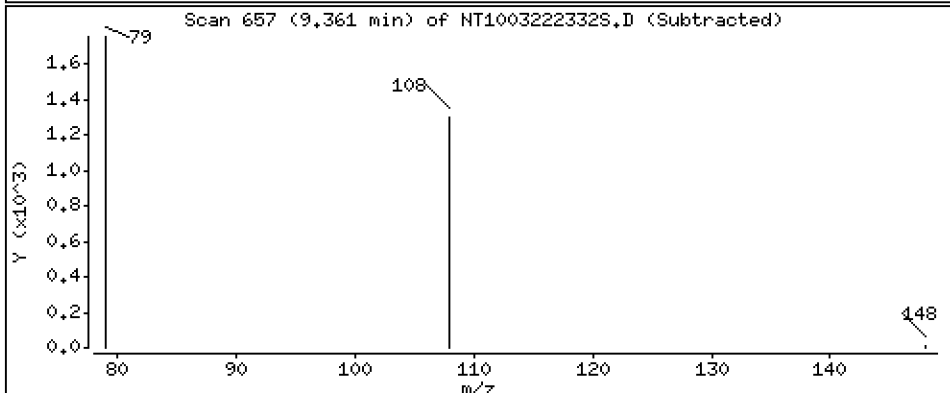
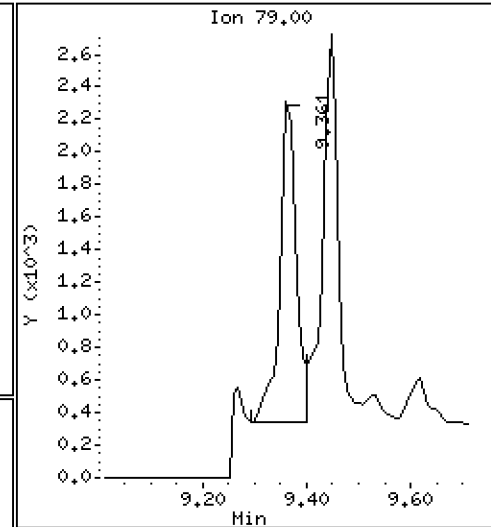
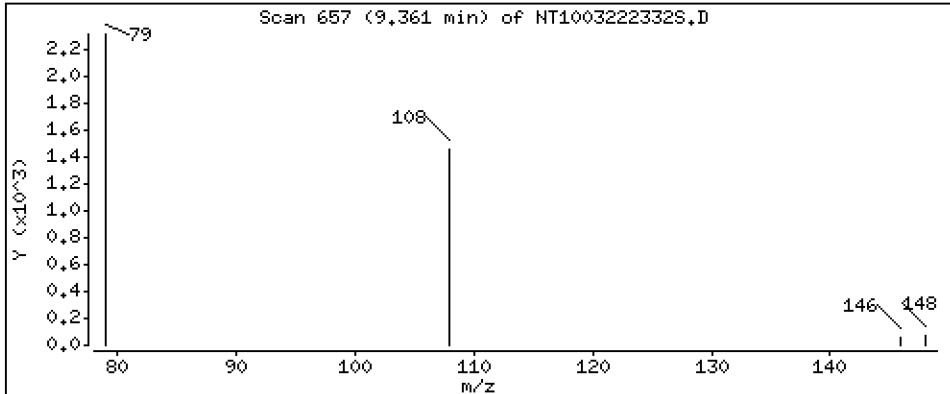
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 0.1197 ug/L



Date : 23-MAR-2023 12:44

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-04

Volume Injected (uL): 1.0

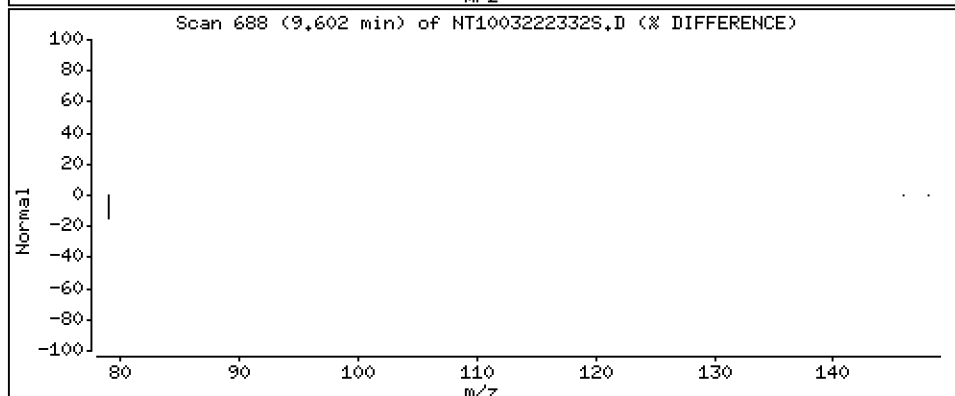
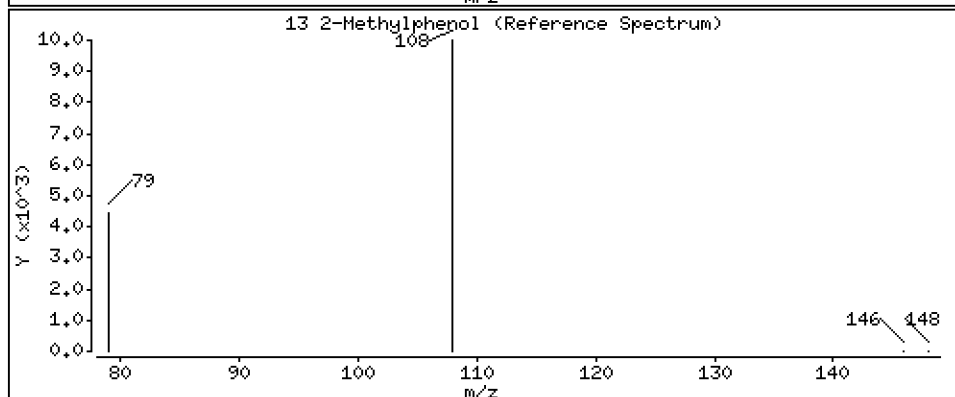
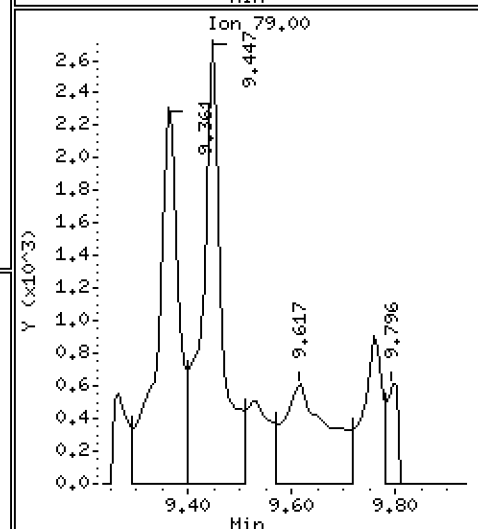
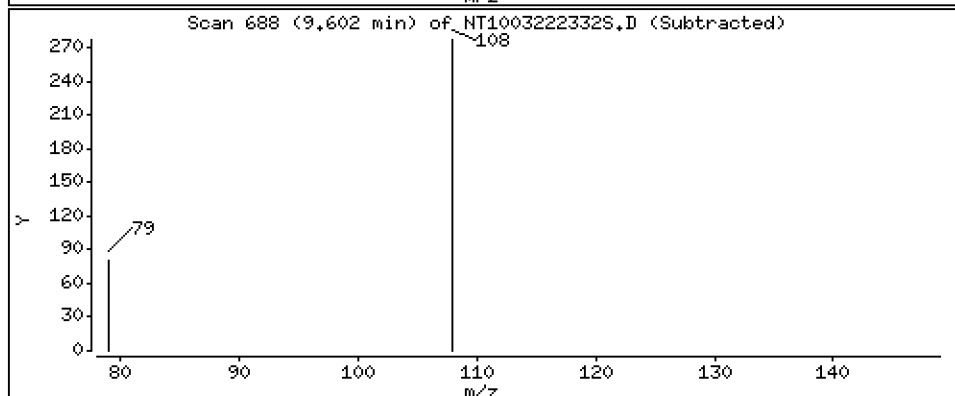
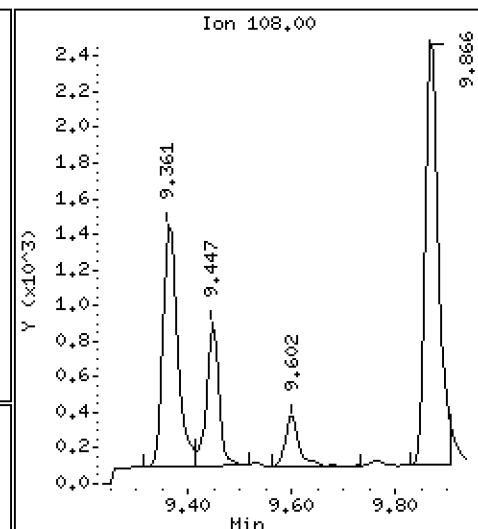
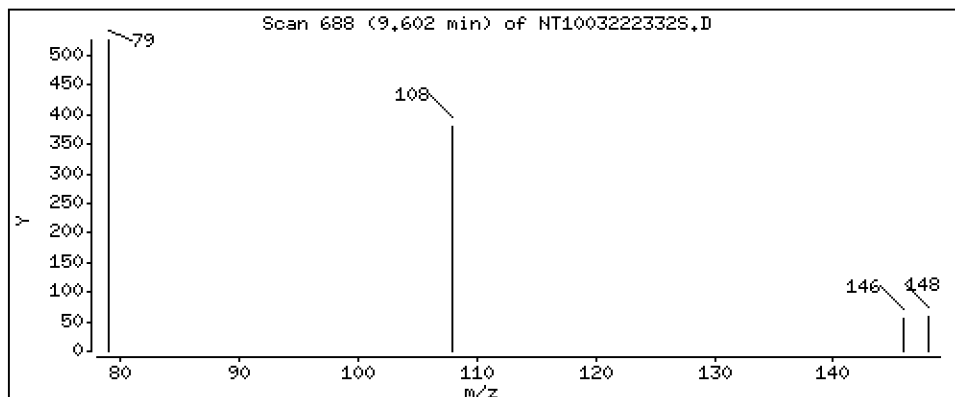
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

13 2-Methylphenol

Concentration: 0.01269 ug/L



Date : 23-MAR-2023 12:44

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-04

Volume Injected (uL): 1.0

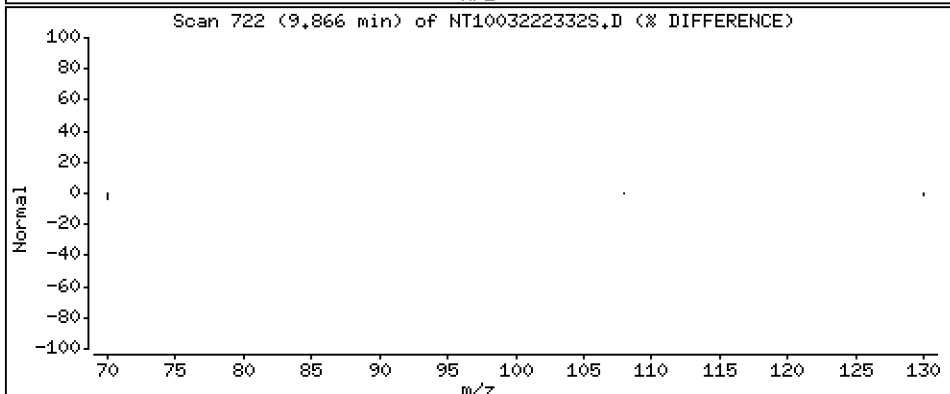
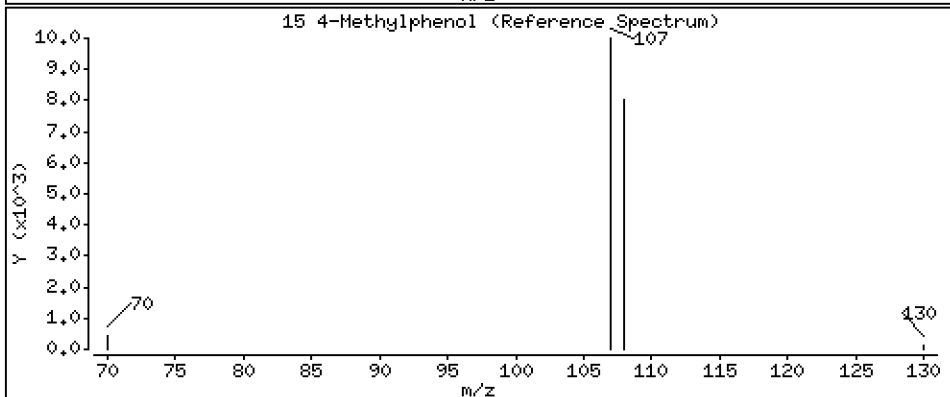
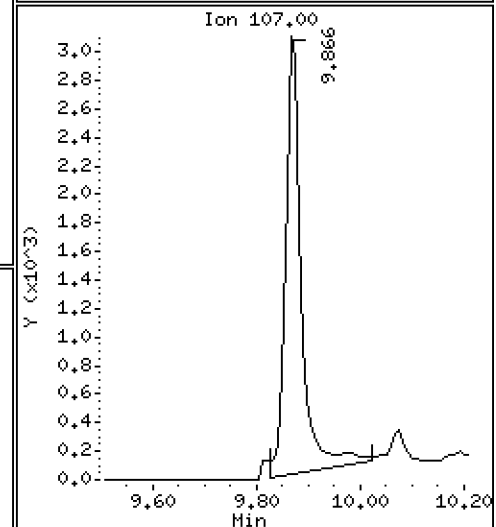
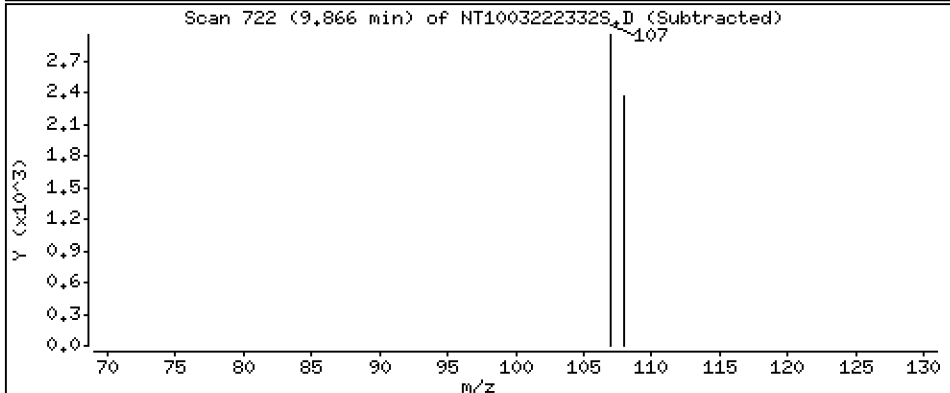
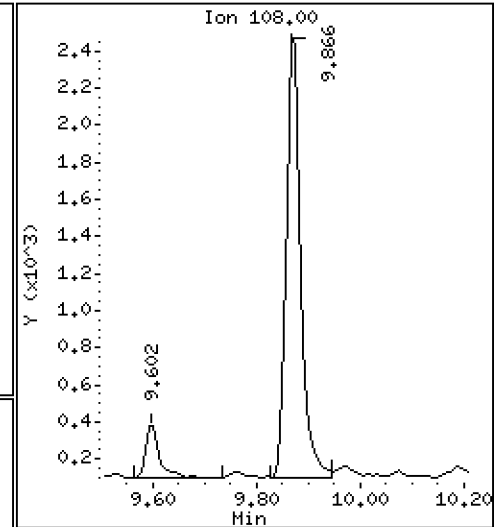
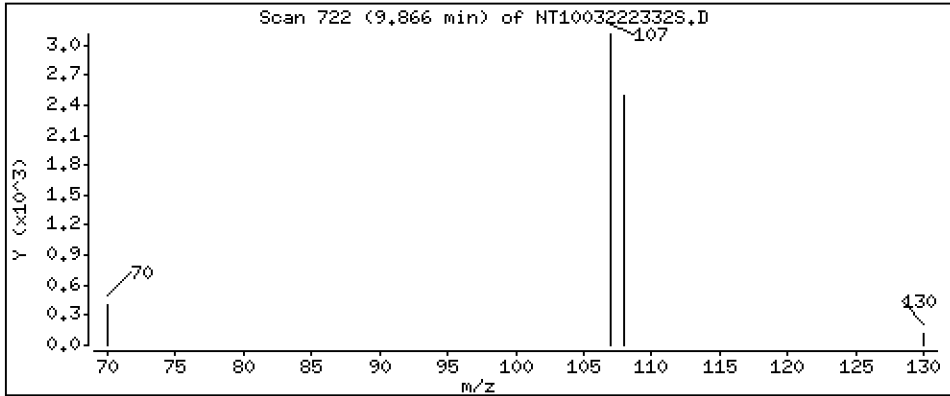
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 0.1044 ug/L



Date : 23-MAR-2023 12:44

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-04

Volume Injected (uL): 1.0

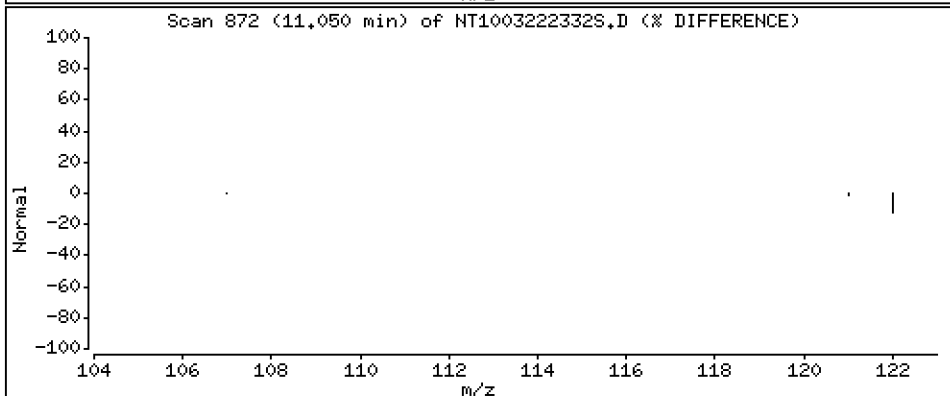
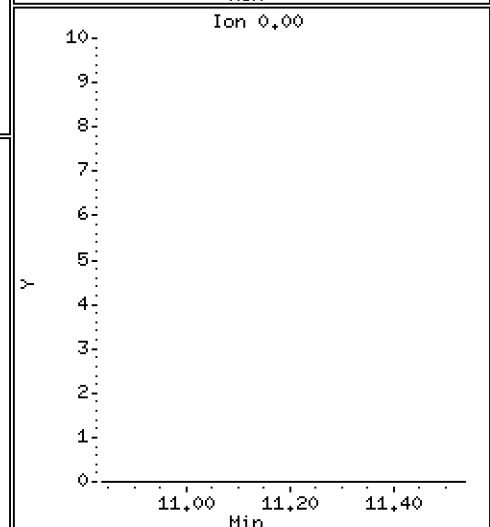
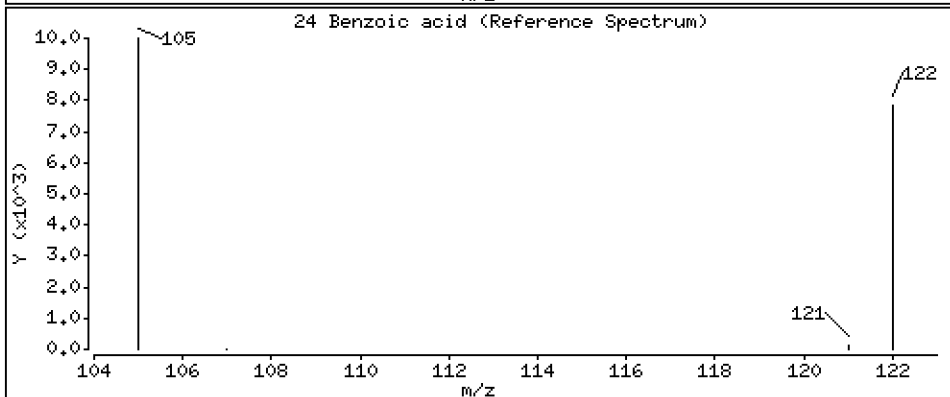
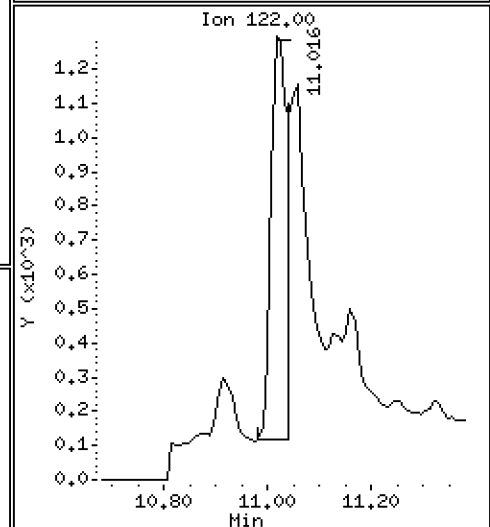
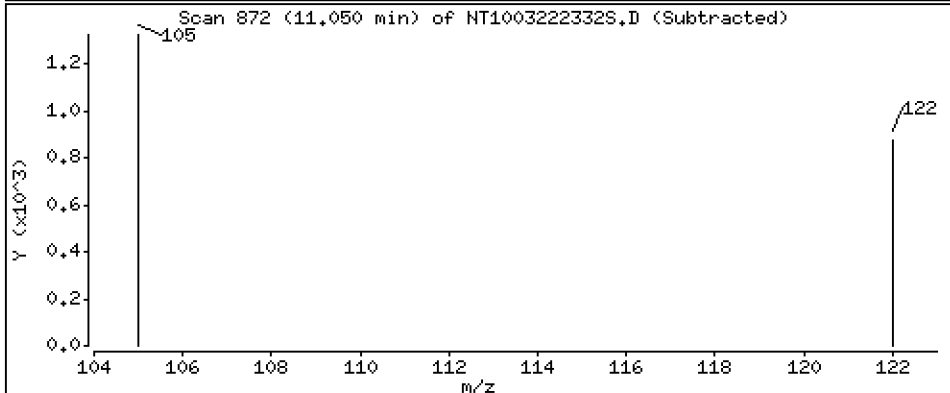
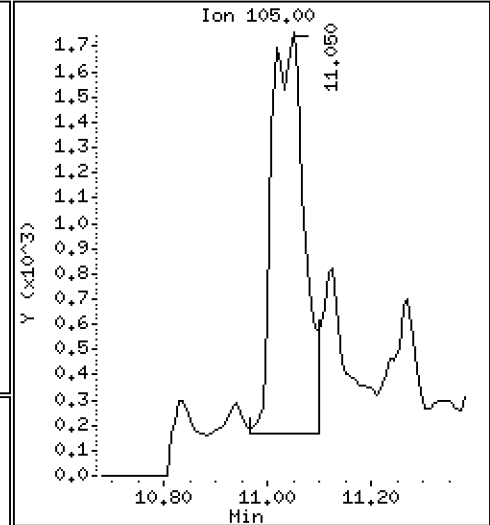
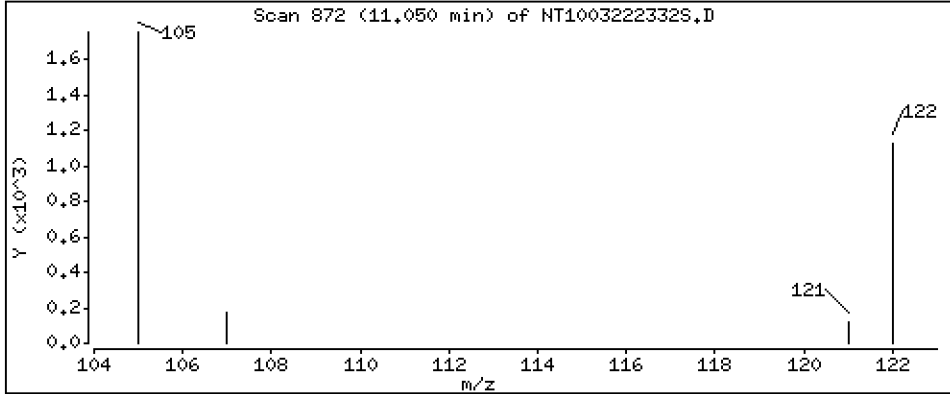
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

24 Benzoic acid

Concentration: 0.2736 ug/L



Date : 23-MAR-2023 12:44

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-04

Volume Injected (uL): 1.0

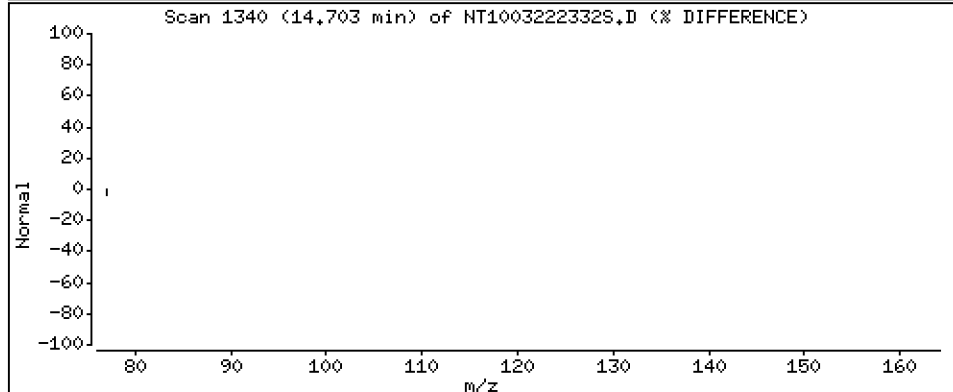
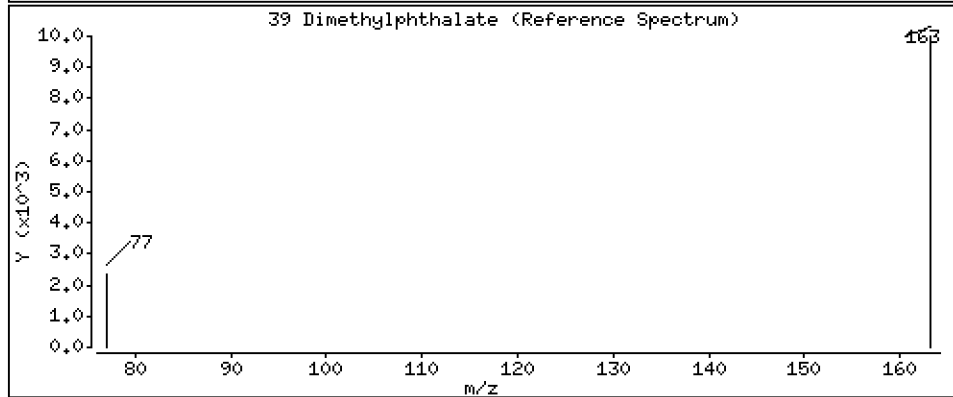
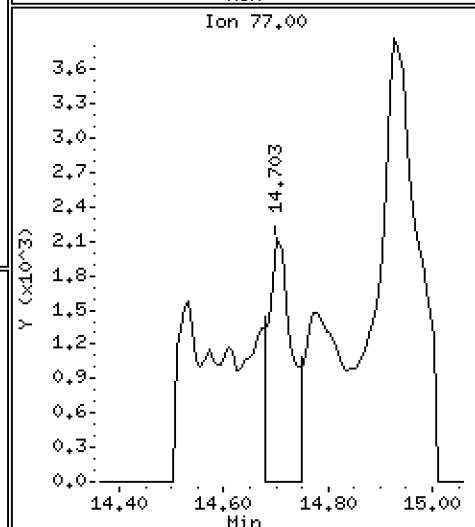
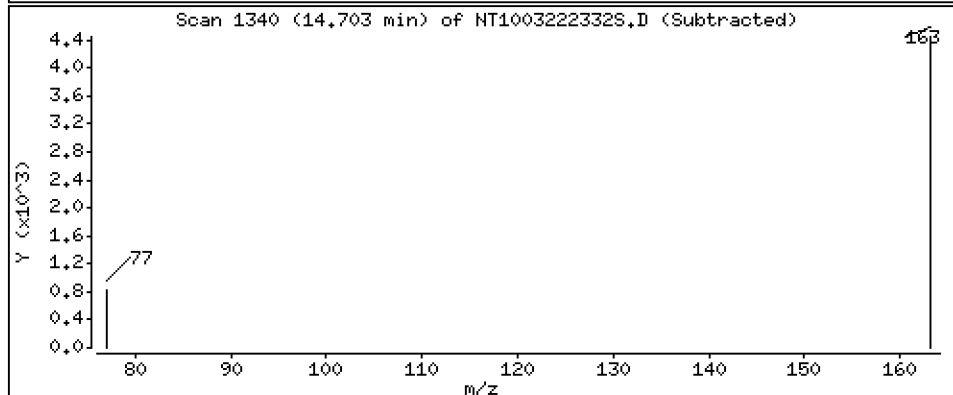
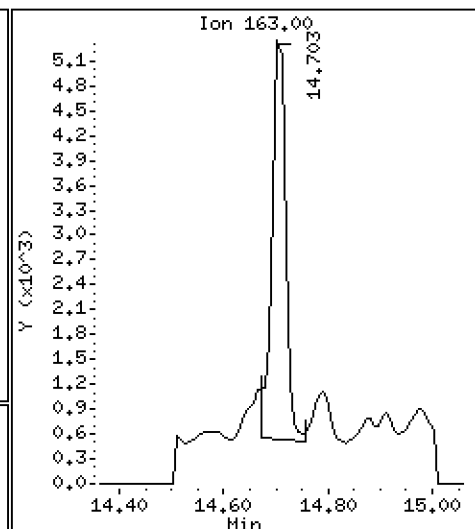
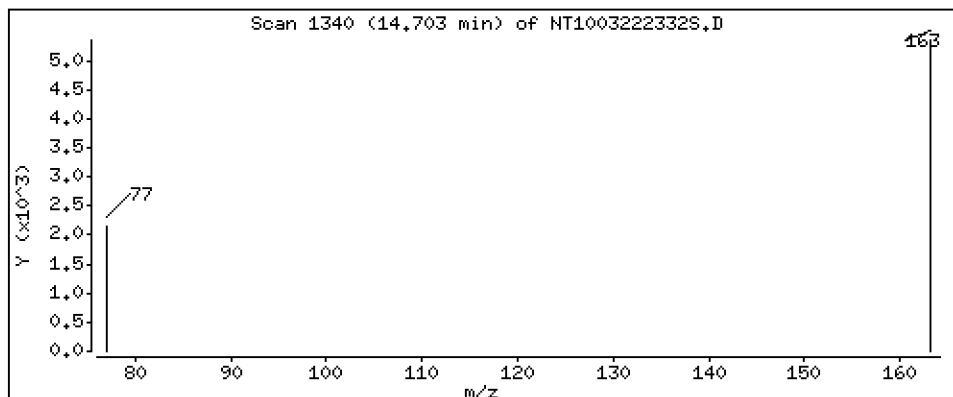
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

39 Dimethylphthalate

Concentration: 0.1031 ug/L



Date : 23-MAR-2023 12:44

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-04

Volume Injected (uL): 1.0

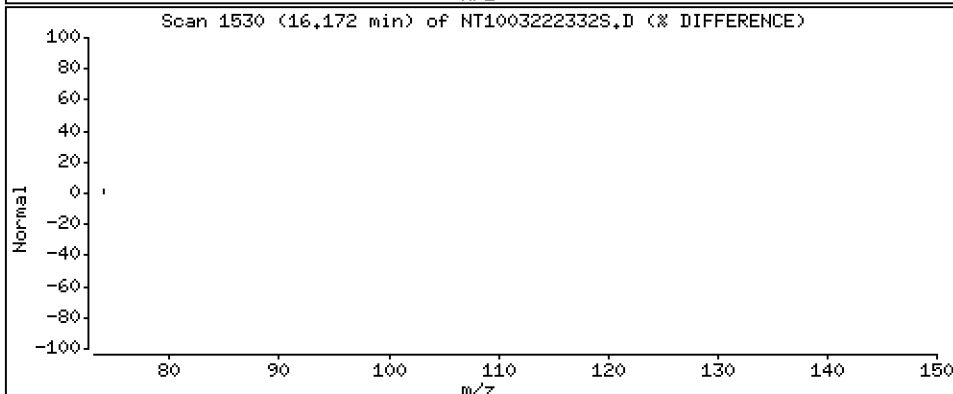
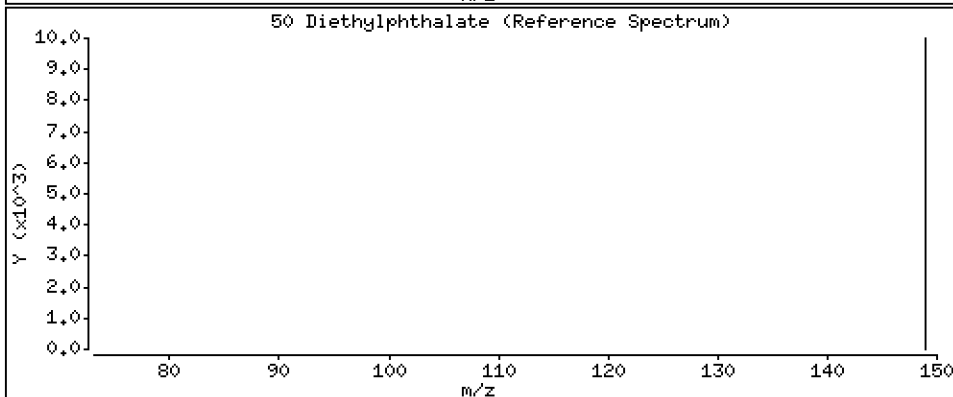
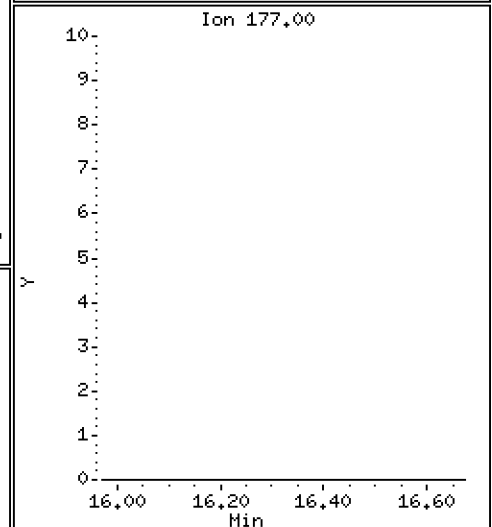
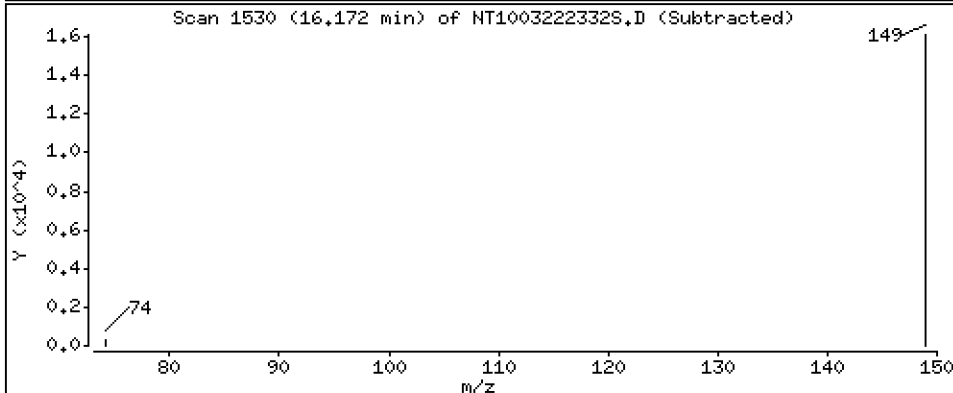
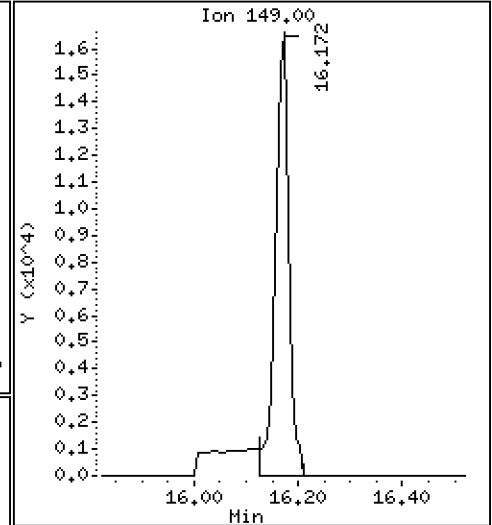
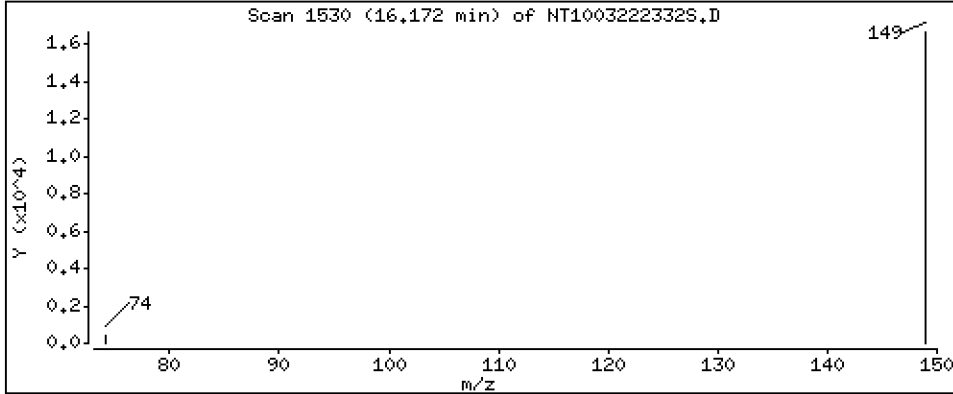
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 0,3351 ug/L



Date : 23-MAR-2023 12:44

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-04

Volume Injected (uL): 1.0

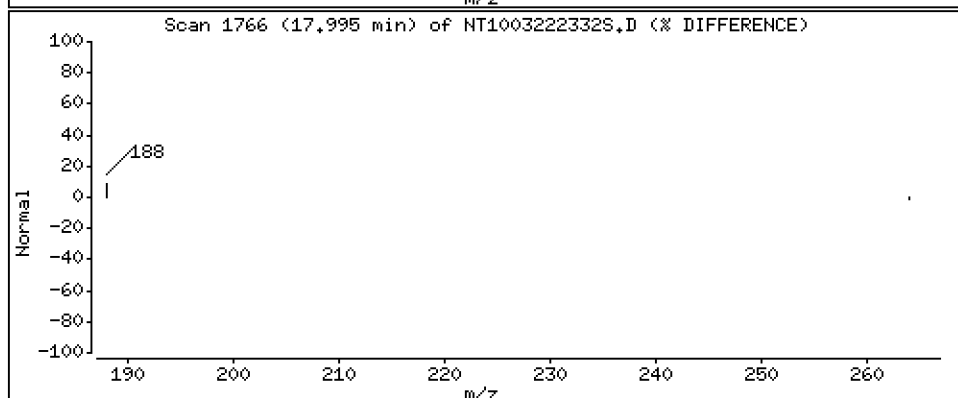
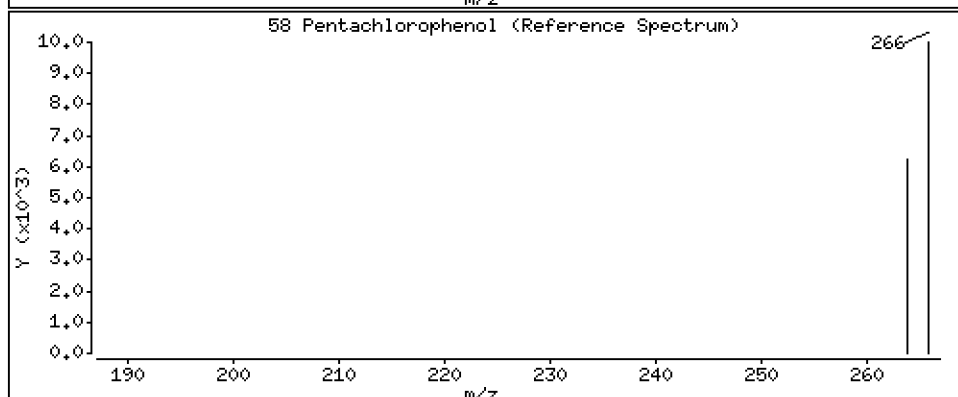
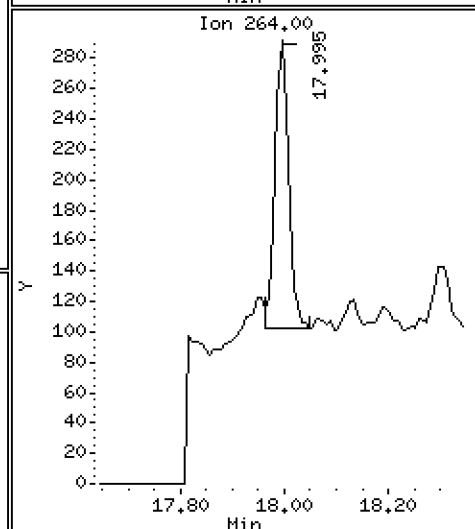
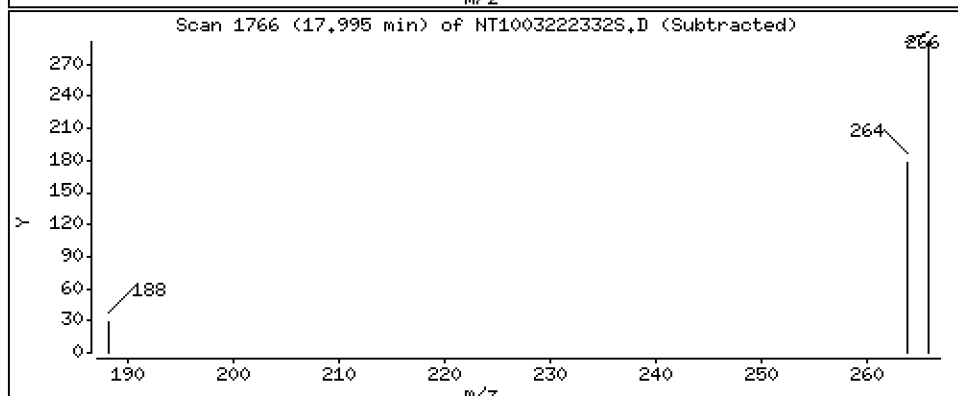
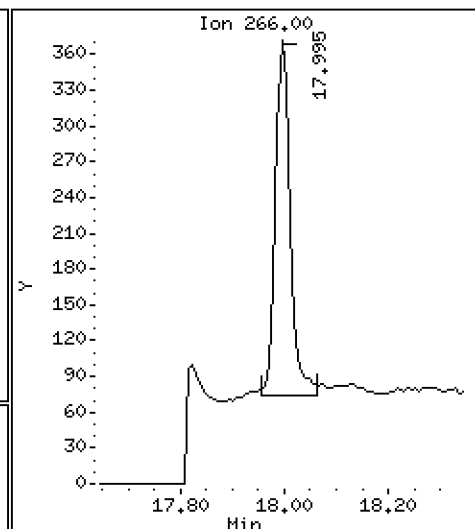
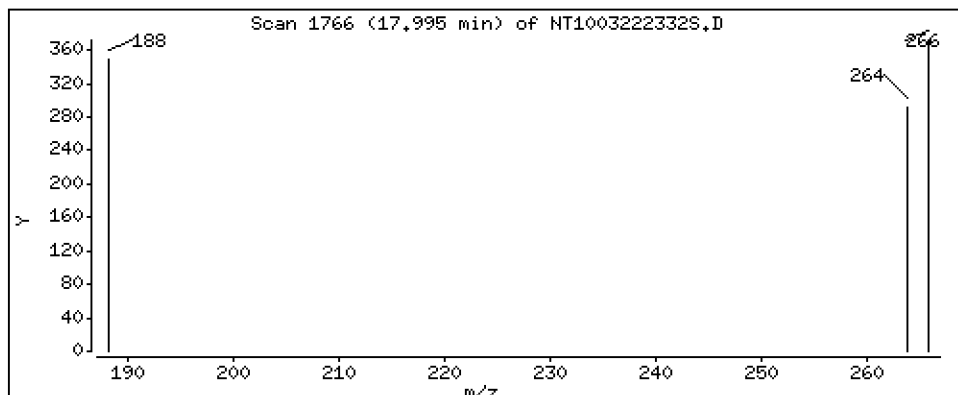
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 0,02974 ug/L



Date : 23-MAR-2023 12:44

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-04

Volume Injected (uL): 1.0

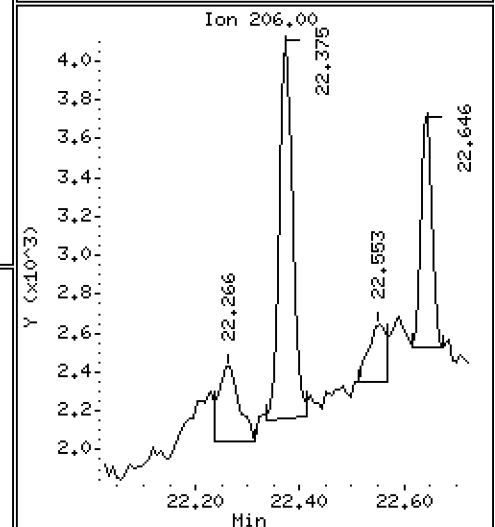
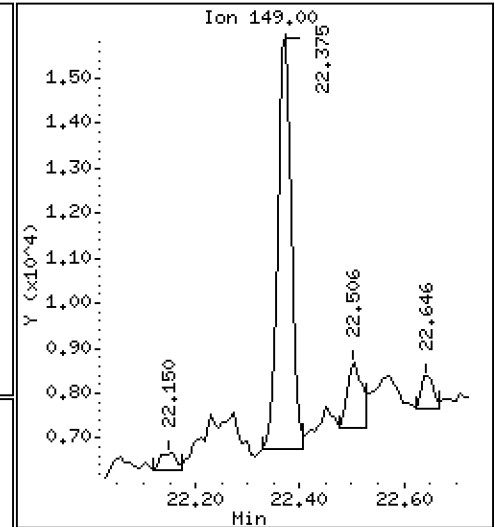
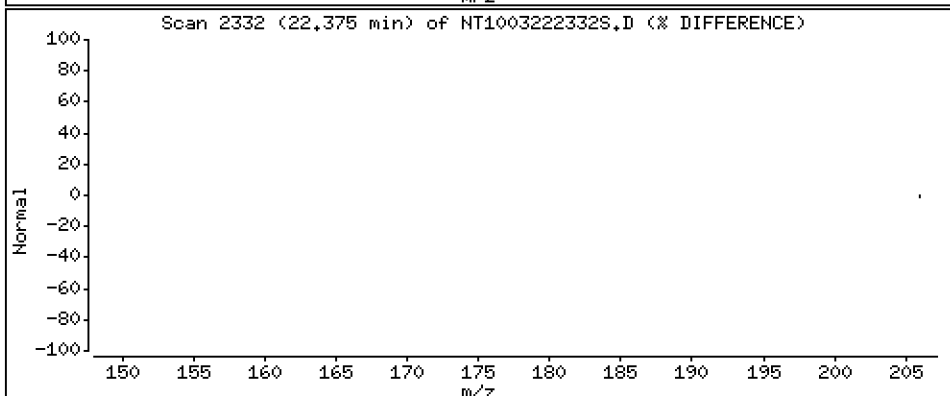
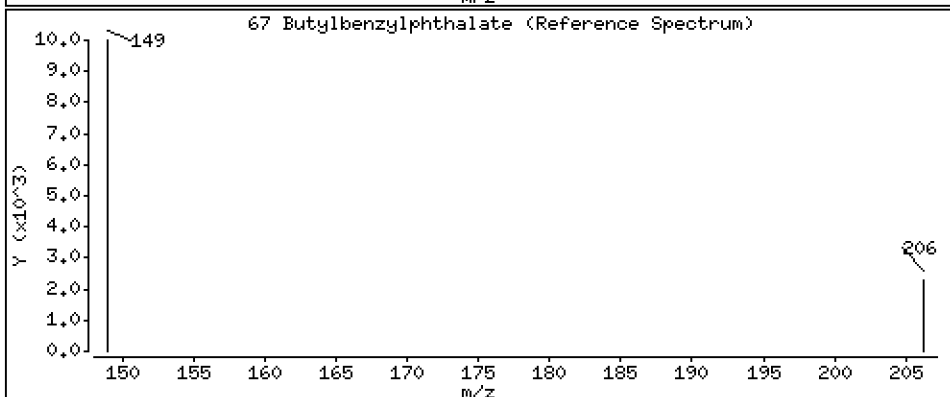
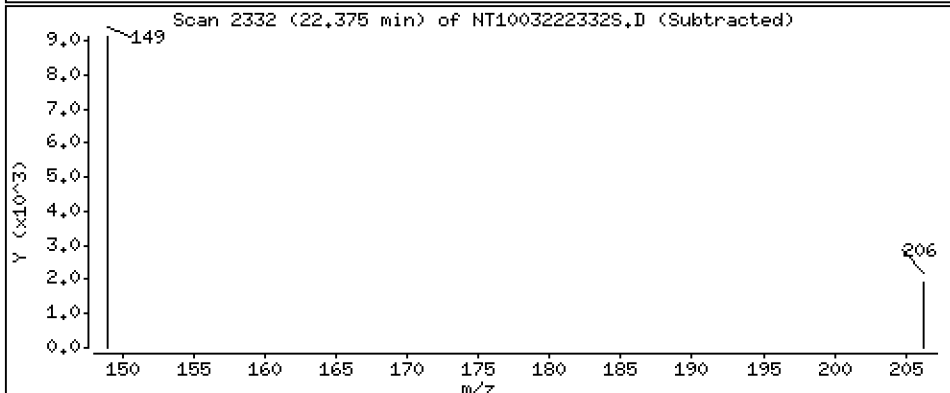
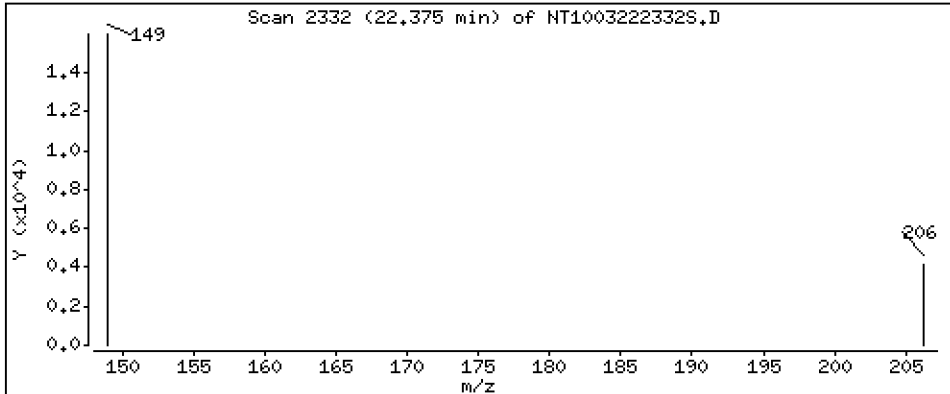
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

67 Butylbenzylphthalate

Concentration: 0.2225 ug/L



Date : 23-MAR-2023 12:44

Client ID:

Instrument: nt10.i

Sample Info: 23A0180-04

Volume Injected (uL): 1.0

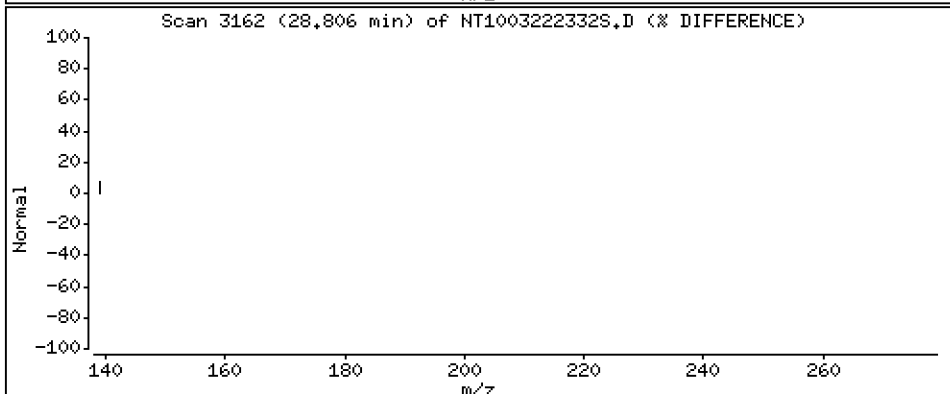
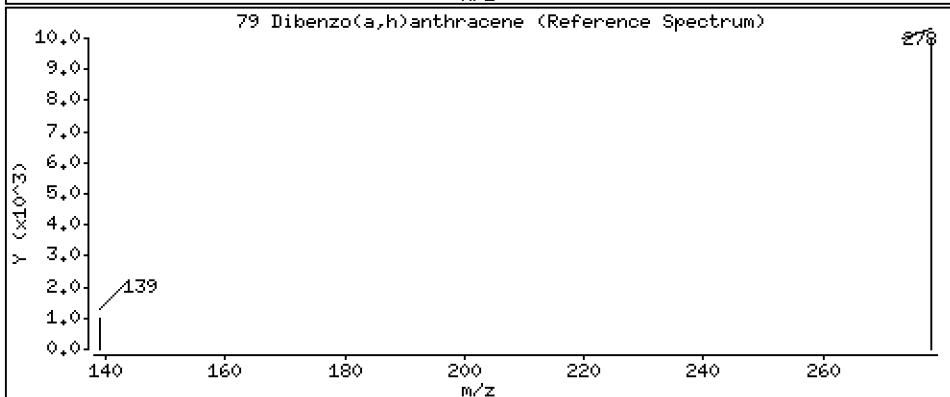
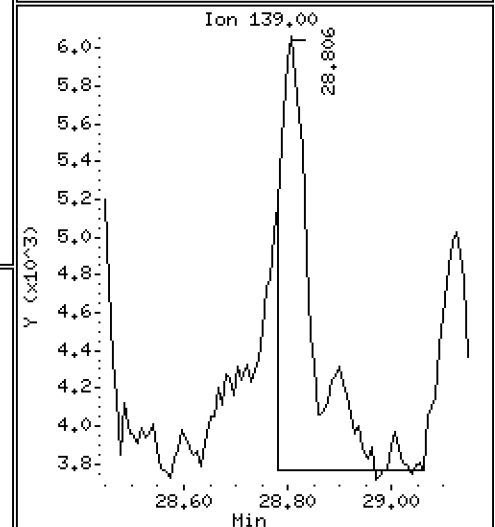
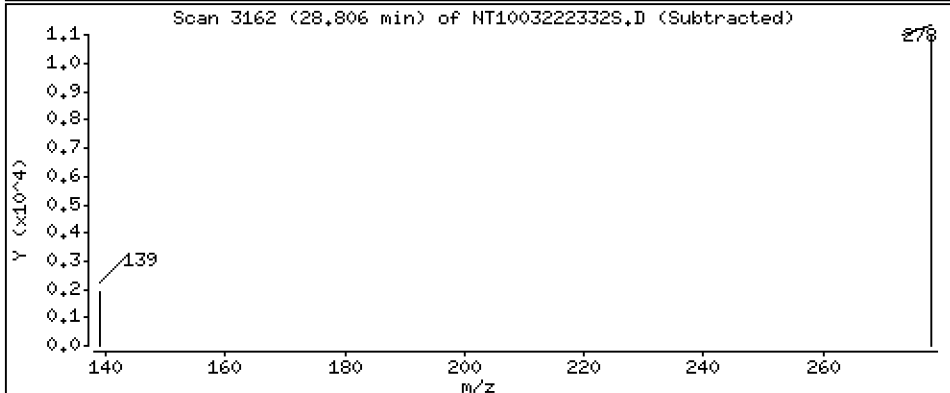
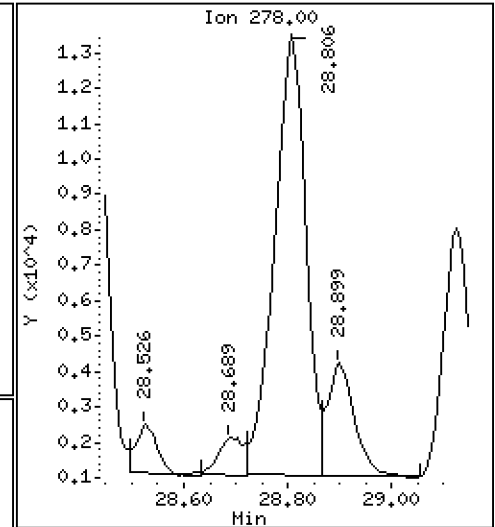
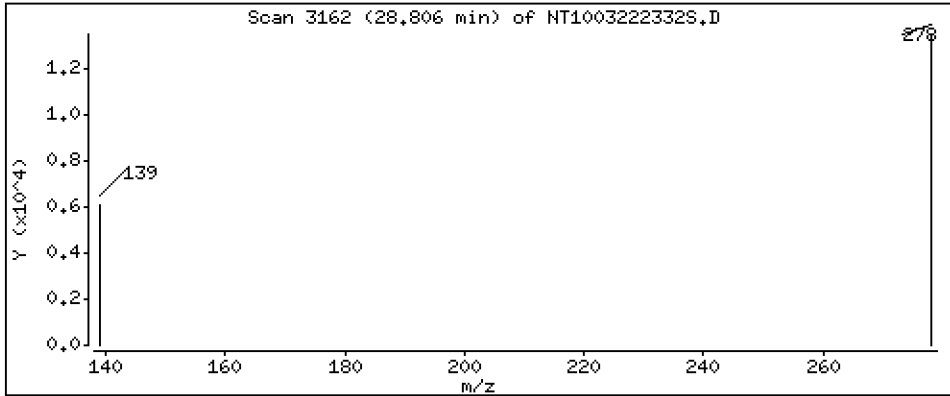
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 0,2802 ug/L



ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230322.b\SIM.b\NT1003222332S.D
 Lab Smp Id: 23A0180-04
 Inj Date : 23-MAR-2023 12:44 MS Autotune Date: 16-JAN-2023 17:42
 Operator : JGR Inst ID: nt10.i
 Smp Info : 23A0180-04
 Misc Info :
 Comment :
 Method : \\target\share\chem3\nt10.i\20230322.b\SIM.b\SIMABN2.m
 Meth Date : 25-Mar-2023 16:11 yev Quant Type: ISTD
 Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D
 Als bottle: 27
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: PSSDA.sub
 Target Version: 4.14
 Processing Host: ORGDATA102

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

| Name | Value | Description |
|---------------|----------|---------------------------------|
| DF | 1.000 | Dilution Factor |
| Vo | 1000.000 | Volume of sample extracted (mL) |
| Vt | 1000.000 | Volume of final extract (uL) |
| Vi | 1.000 | Volume injected (uL) |
| Uf | 1.000 | ng unit correction factor |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT | SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|-------------------------------|-------|-----|------------------------|--------|---------|----------|----------------|-------------|
| | | | | | | | ON-COLUMN | FINAL |
| | MASS | | | | | | (ug/mL) | (ug/L) |
| \$ 1 2-Fluorophenol | 112 | | 6.871 | 6.856 | (0.756) | 260943 | 5.90517 | 5.905 (R) |
| 3 Phenol | 94 | | 8.478 | 8.471 | (0.933) | 69613 | 1.14827 | 1.148 |
| 7 1,3-Dichlorobenzene | 146 | | Compound Not Detected. | | | | | |
| * 8 1,4-Dichlorobenzene-d4 | 152 | | 9.089 | 9.090 | (1.000) | 145720 | 4.00000 | |
| 9 1,4-Dichlorobenzene | 146 | | 9.120 | 9.121 | (1.003) | 1428 | 0.02608 | 0.02608 (M) |
| 11 Benzyl alcohol | 79 | | 9.361 | 9.361 | (1.030) | 4208 | 0.11973 | 0.1197 (M) |
| 12 1,2-Dichlorobenzene | 146 | | Compound Not Detected. | | | | | |
| 13 2-Methylphenol | 108 | | 9.601 | 9.586 | (1.056) | 533 | 0.01269 | 0.01269 |
| 15 4-Methylphenol | 108 | | 9.865 | 9.858 | (1.085) | 4557 | 0.10440 | 0.1044 |
| 16 N-Nitroso-di-n-propylamine | 70 | | Compound Not Detected. | | | | | |
| 22 2,4-Dimethylphenol | 107 | | Compound Not Detected. | | | | | |
| 24 Benzoic acid | 105 | | 11.050 | 11.033 | (0.954) | 6920 | 0.27360 | 0.2736 (M) |
| 26 1,2,4-Trichlorobenzene | 180 | | Compound Not Detected. | | | | | |
| * 27 Naphthalene-d8 | 136 | | 11.577 | 11.577 | (1.000) | 534791 | 4.00000 | |
| 30 Hexachlorobutadiene | 225 | | Compound Not Detected. | | | | | |
| 39 Dimethylphthalate | 163 | | 14.703 | 14.711 | (0.967) | 8512 | 0.10313 | 0.1031 (M) |
| * 42 Acenaphthene-d10 | 162 | | 15.198 | 15.206 | (1.000) | 261557 | 4.00000 | |
| 50 Diethylphthalate | 149 | | 16.172 | 16.172 | (1.064) | 28653 | 0.33509 | 0.3351 |
| 54 N-Nitrosodiphenylamine | 169 | | Compound Not Detected. | | | | | |
| 57 Hexachlorobenzene | 284 | | Compound Not Detected. | | | | | |

| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|---------------------------|-----------|------------------------|--------|---------|----------|----------------------|------------------|
| | | | | | | ON-COLUMN (ug/mL) | FINAL (ug/L) |
| 58 Pentachlorophenol | 266 | 17.994 | 17.995 | (0.986) | 569 | 0.02974 | 0.02974 (M) |
| * 59 Phenanthrene-d10 | 188 | 18.257 | 18.258 | (1.000) | 577037 | 4.00000 | |
| \$ 66 Terphenyl-d14 | 244 | 21.437 | 21.438 | (0.918) | 501214 | 5.68690 | 5.687 (R) |
| 67 Butylbenzylphthalate | 149 | 22.374 | 22.375 | (0.958) | 15855 | 0.22253 | 0.2225 |
| * 69 Chrysene-d12 | 240 | 23.358 | 23.350 | (1.000) | 540918 | 4.00000 | |
| * 77 Perylene-d12 | 264 | 26.044 | 26.037 | (1.000) | 578351 | 4.00000 | |
| 79 Dibenzo(a,h)anthracene | 278 | 28.805 | 28.798 | (1.106) | 53127 | 0.28022 | 0.2802 |
| 90 N-Nitrosodimethylamine | 74 | Compound Not Detected. | | | | | |

QC Flag Legend

- R - Spike/Surrogate failed recovery limits.
- M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i
 Lab File ID: NT1003222332S.D
 Lab Smp Id: 23A0180-04
 Analysis Type: SV
 Quant Type: ISTD
 Operator: JGR
 Method File: \\target\share\chem3\nt10.i\20230322.b\SIM.b\SIMABN2.m
 Misc Info:

Calibration Date: 23-MAR-2023
 Calibration Time: 03:52
 Level: LOW
 Sample Type: AIR

Test Mode:
 Use Last Continuing Calibrator.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|------------|---------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 140507 | 70254 | 281014 | 145720 | 3.71 |
| 27 Naphthalene-d8 | 499190 | 249595 | 998380 | 534791 | 7.13 |
| 42 Acenaphthene-d10 | 250303 | 125152 | 500606 | 261557 | 4.50 |
| 59 Phenanthrene-d10 | 496896 | 248448 | 993792 | 577037 | 16.13 |
| 69 Chrysene-d12 | 465837 | 232919 | 931674 | 540918 | 16.12 |
| 77 Perylene-d12 | 551078 | 275539 | 1102156 | 578351 | 4.95 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 9.09 | 8.59 | 9.59 | 9.09 | -0.00 |
| 27 Naphthalene-d8 | 11.58 | 11.08 | 12.08 | 11.58 | -0.00 |
| 42 Acenaphthene-d10 | 15.21 | 14.71 | 15.71 | 15.20 | -0.05 |
| 59 Phenanthrene-d10 | 18.26 | 17.76 | 18.76 | 18.26 | -0.00 |
| 69 Chrysene-d12 | 23.35 | 22.85 | 23.85 | 23.36 | 0.03 |
| 77 Perylene-d12 | 26.04 | 25.54 | 26.54 | 26.04 | 0.03 |

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

REVIEW SUMMARY FOR FILE - NT1003222332S.D

Lab ID: 23A0180-04

nt10.i, 20230322.b\SIM.b\SIMABN2.m, 23-MAR-2023 12:44

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

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

NONE

RRT check based on Ccal File: SIM.b/NT1003222318S.D

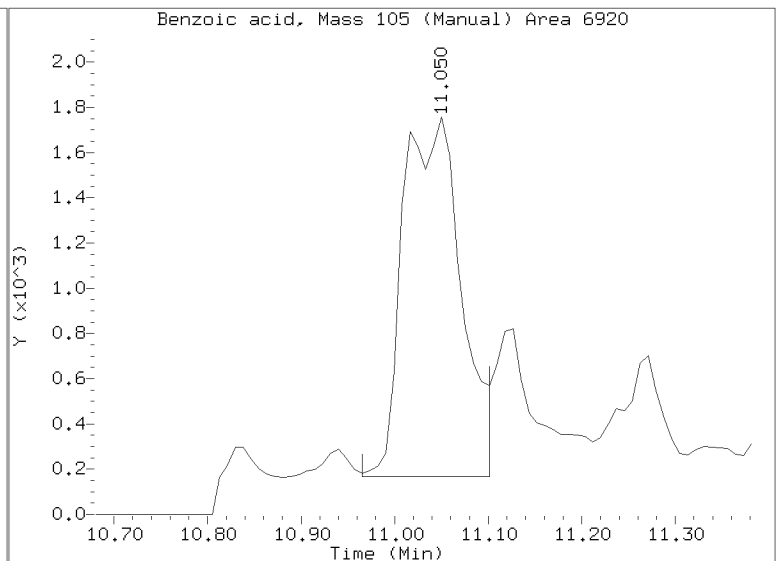
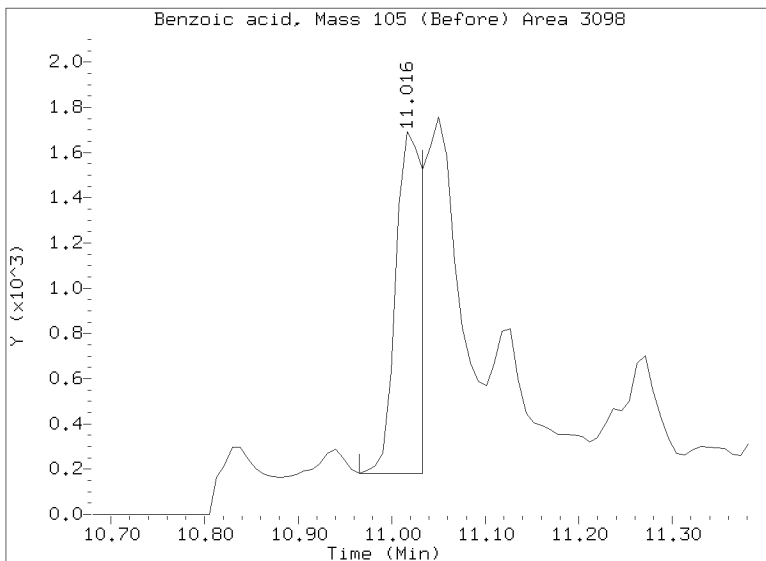
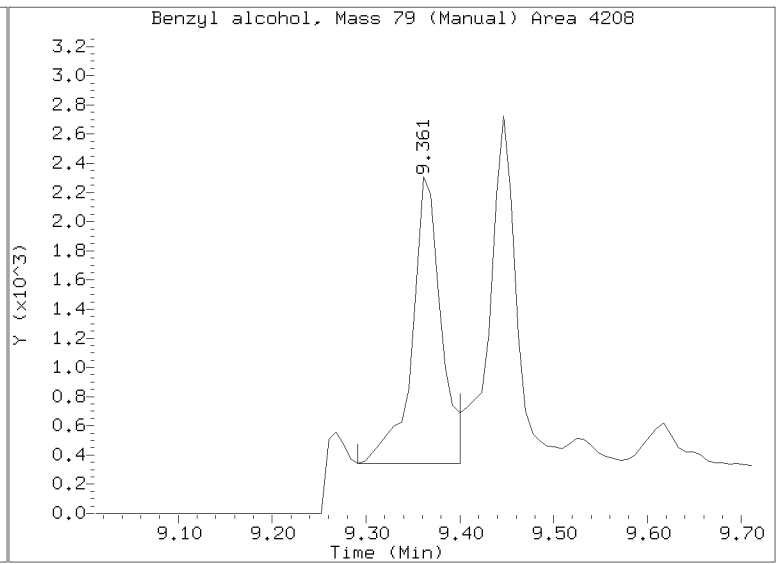
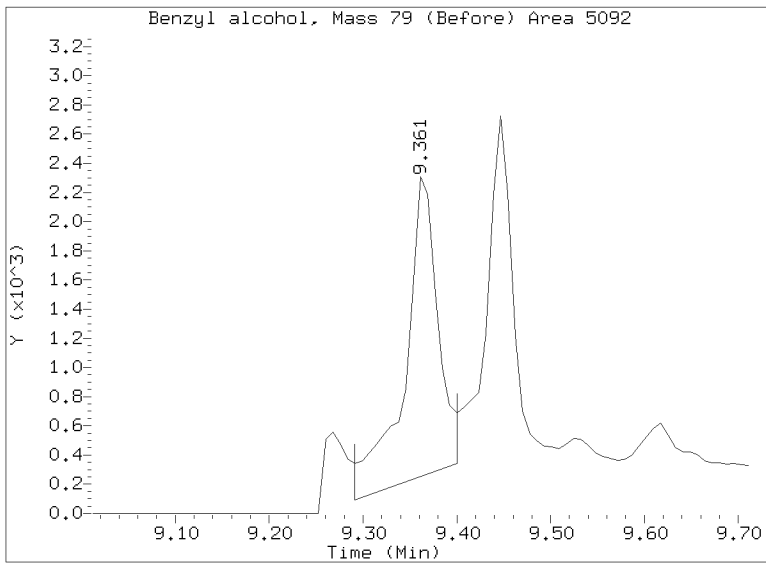
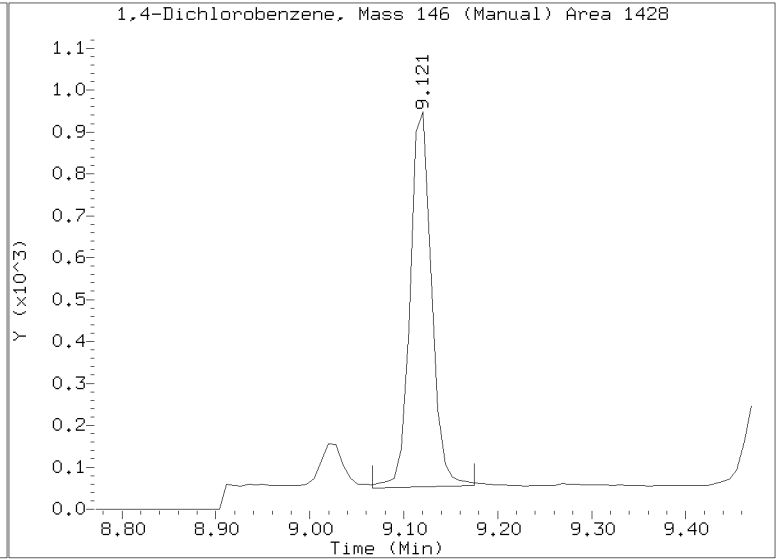
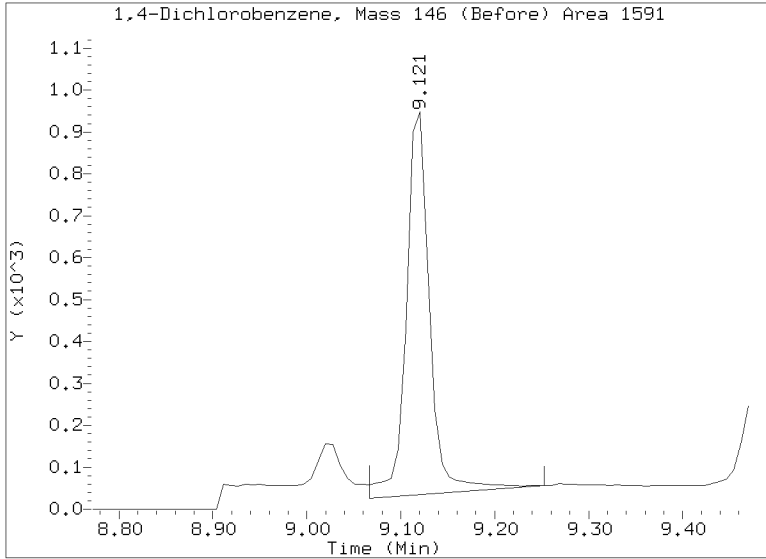
On Column LOD for nt10.i, SIM.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

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

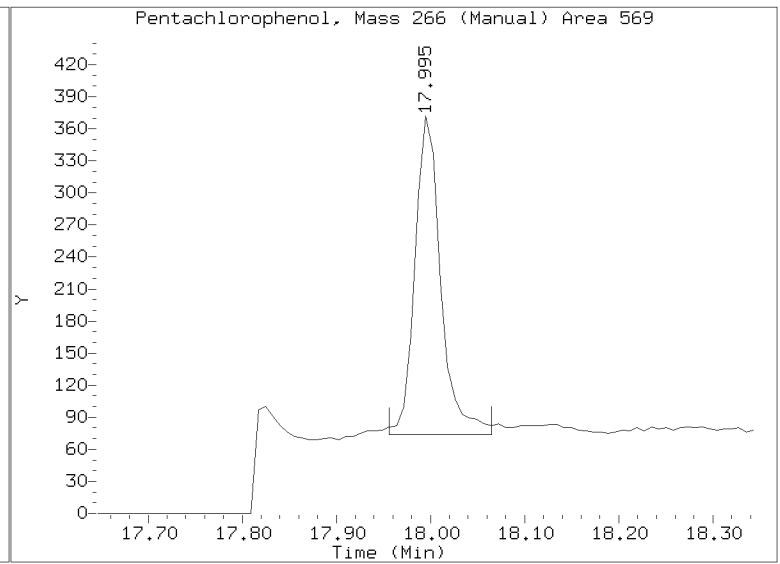
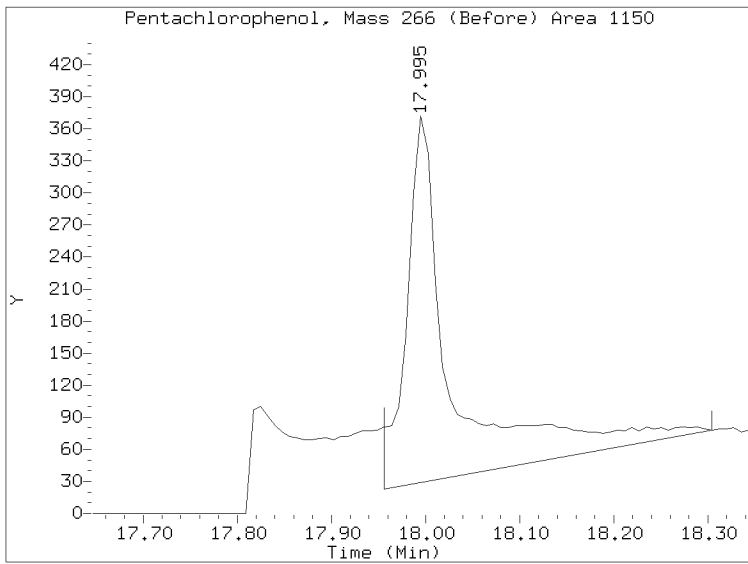
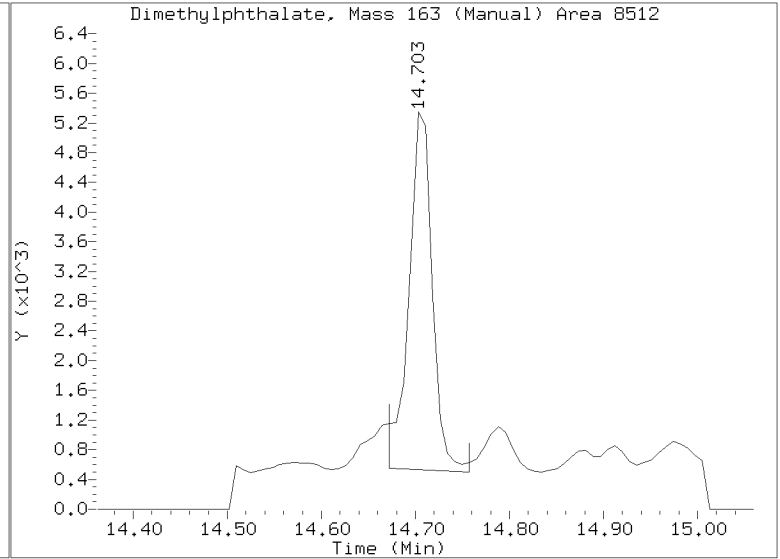
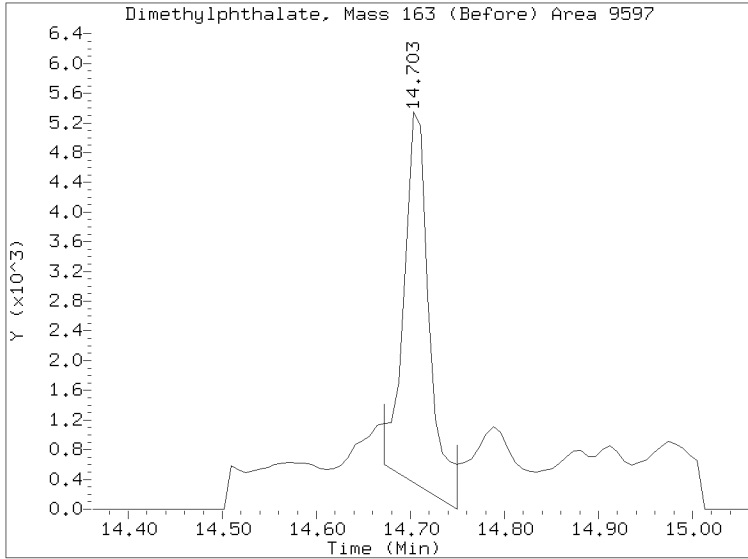
Quant Ion Manual Peak Adjustment Report

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Injection Date: 23-MAR-2023 12:44
Lab ID:23A0180-04 Client ID:
Report Date: 03/25/2023 16:12



Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230322.b/SIM.b/NT1003222332S.D
Injection Date: 23-MAR-2023 12:44
Lab ID:23A0180-04 Client ID:
Report Date: 03/25/2023 16:12





PREPARATION BATCH SUMMARY

Laboratory:

SDG:

Client:

Project:

Batch:

Batch Matrix:

Preparation:

| SAMPLE NAME | LAB SAMPLE ID | LAB FILE ID | DATE PREPARED | OBSERVATIONS |
|-------------|---------------|-------------|---------------|--------------|
| | | | | |



PREPARATION BATCH SUMMARY

EPA 8270E-SIM

| | | | |
|-------------|----------------------------------|---------------|-----------------------------|
| Laboratory: | <u>Analytical Resources, LLC</u> | SDG: | <u>23A0180</u> |
| Client: | <u>Anchor QEA, LLC</u> | Project: | <u>AOC5 MR Phase 1</u> |
| Batch: | <u>BLC0442</u> | Batch Matrix: | <u>Solid</u> |
| | | Preparation: | <u>EPA 3546 (Microwave)</u> |

| SAMPLE NAME | LAB SAMPLE ID | LAB FILE ID | DATE PREPARED | OBSERVATIONS |
|-----------------|---------------|-----------------|----------------|------------------------------------|
| LDW23-SC1164 | 23A0180-01RE1 | NT1003222329S.D | 03/17/23 14:20 | From BLA0557 by CTO on 21-Mar-2023 |
| LDW23-SC1164-FD | 23A0180-02RE1 | NT1003222330S.D | 03/17/23 14:20 | From BLA0557 by CTO on 21-Mar-2023 |
| LDW23-SC1158 | 23A0180-03RE1 | NT1003222331S.D | 03/17/23 14:20 | From BLA0557 by CTO on 21-Mar-2023 |
| LDW23-SC1151 | 23A0180-04RE1 | NT1003222332S.D | 03/17/23 14:20 | From BLA0557 by CTO on 21-Mar-2023 |
| Blank | BLC0442-BLK2 | NT1003222306S.D | 03/17/23 11:16 | |
| LCS | BLC0442-BS2 | NT1003222307S.D | 03/17/23 11:16 | |
| LCS Dup | BLC0442-BSD2 | NT1003222308S.D | 03/17/23 11:16 | |
| Reference | BLC0442-SRM2 | NT1003222309S.D | 03/17/23 11:16 | |



Batch: BLC0442

Prepared using: EPA 3546 (Microwave)

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

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

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

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

Batch QC

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



Batch: BLC0442

Prepared using: EPA 3546 (Microwave)

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

WO Comments

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

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

+1g DI WATER

Client ID: 03/17/23

Date

Preparation Reviewed By: GD

Date

3/21/23

Extraction Date and Time: 03/17/23 11:16



Batch: BLC0442

Prepared using: EPA 3546 (Microwave)

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

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

| Prep Steps | Reagents Used | Surrogates & Spike Standards Used | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|--|-----------|-----------------------|--------|---------|---------|-----------|-----------|------|--|--|--------------|--------------------------|--|-----------|----------|---------------------------|---------------|------|--|--|----------|-------------------------|--|-----------|----------|------------|----------------|------|--|--|----------|--------------------------|--|-----------|----------|------------|----------------|------|--|--|--------------|--------------------------|--|-----------|----------|
| Microwave CT 2 3 Analyst/Date: CT 3/17/23 | Station/Reagent Standard ID Microwave Analyst: <i>CT</i> Date: <i>3/17/23</i> Anhydrous Sodium Sulfate L002484 1:1 Methylene Chloride/Acetone L002244 Methylene Chloride L002621 Pre-Deactivated Glass Wool L0041923 Pre GPC KD Analyst: <i>TWC</i> Date: <i>3/18/23</i> Pre-Deactivated Glass Wool N/A | <table border="1"> <thead> <tr> <th>Type</th> <th>Vial ID / Standard ID</th> <th>Vol uL</th> <th>Analyst</th> <th>Witness</th> </tr> </thead> <tbody> <tr> <td>Surrogate</td> <td>A L001153</td> <td>50µL</td> <td></td> <td></td> </tr> <tr> <td>100/150µg/mL</td> <td>Exp Date: <i>8/11/24</i></td> <td></td> <td><i>CT</i></td> <td><i>Y</i></td> </tr> <tr> <td>Full List Spike (Freezer)</td> <td>7 L001812 (V)</td> <td>50µL</td> <td></td> <td></td> </tr> <tr> <td>100µg/mL</td> <td>Exp Date: <i>2/4/24</i></td> <td></td> <td><i>CT</i></td> <td><i>Y</i></td> </tr> <tr> <td>Base Spike</td> <td>56 L001812 (V)</td> <td>50µL</td> <td></td> <td></td> </tr> <tr> <td>200µg/mL</td> <td>Exp Date: <i>3/24/24</i></td> <td></td> <td><i>CT</i></td> <td><i>Y</i></td> </tr> <tr> <td>Acid Spike</td> <td>38 L001812 (V)</td> <td>50µL</td> <td></td> <td></td> </tr> <tr> <td>100/200µg/mL</td> <td>Exp Date: <i>3/24/24</i></td> <td></td> <td><i>CT</i></td> <td><i>Y</i></td> </tr> </tbody> </table> | Type | Vial ID / Standard ID | Vol uL | Analyst | Witness | Surrogate | A L001153 | 50µL | | | 100/150µg/mL | Exp Date: <i>8/11/24</i> | | <i>CT</i> | <i>Y</i> | Full List Spike (Freezer) | 7 L001812 (V) | 50µL | | | 100µg/mL | Exp Date: <i>2/4/24</i> | | <i>CT</i> | <i>Y</i> | Base Spike | 56 L001812 (V) | 50µL | | | 200µg/mL | Exp Date: <i>3/24/24</i> | | <i>CT</i> | <i>Y</i> | Acid Spike | 38 L001812 (V) | 50µL | | | 100/200µg/mL | Exp Date: <i>3/24/24</i> | | <i>CT</i> | <i>Y</i> |
| Type | Vial ID / Standard ID | Vol uL | Analyst | Witness | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Surrogate | A L001153 | 50µL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 100/150µg/mL | Exp Date: <i>8/11/24</i> | | <i>CT</i> | <i>Y</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Full List Spike (Freezer) | 7 L001812 (V) | 50µL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 100µg/mL | Exp Date: <i>2/4/24</i> | | <i>CT</i> | <i>Y</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Base Spike | 56 L001812 (V) | 50µL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 200µg/mL | Exp Date: <i>3/24/24</i> | | <i>CT</i> | <i>Y</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acid Spike | 38 L001812 (V) | 50µL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 100/200µg/mL | Exp Date: <i>3/24/24</i> | | <i>CT</i> | <i>Y</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pre-GPC KD 100°C Exchange to Hexane (add 10 mL to KD) 0 2 4 5 6 Analyst/Date: <i>TWC 3/18/23</i> | Anhydrous Sodium Sulfate N/A Methylene Chloride L002621 Hexane L0041957 GPC Filter Prep Analyst: <i>TWC</i> Date: <i>3/18/23</i> | <p>MANUALLY ENTER EXPIRATION DATES!</p> <p>(V) indicates a virtual standard combining two or more physical standards. In these cases the Standard ID refers to the virtual standard, not the parent standards.</p> <p>If a Standard ID is missing, but should be present, check the standard definition in Element LIMS to be sure Standard Info 6 has the correct letter or number designator matching the vial designator in the Standard ID column. If it is correct, check the batch and bench sheet in Element LIMS to be sure the correct standards are selected for surrogate(s) and spike(s).</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TurboVap Pre GPC 1 2 3 4 5 Analyst/Date: <i>TWC 3/18/23</i> | Methylene Chloride L002621 GPC Calibration File CLB0132 Post GPC KD Analyst: <i>W/SA</i> Date: <i>3-21-23</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Post GPC KD 80-85°C 1 0 2 4 5 6 Analyst/Date: <i>W/SA 3-21</i> | Methylene Chloride L002621 GPC Filter L0041799 GPC Analyst: <i>W/KB</i> Date: <i>3/20/23</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TurboVap 1 2 3 4 5 Analyst/Date: <i>CTO 3/21/23</i> | Methylene Chloride L002621 GPC Calibration File CLB0132 Post GPC KD Analyst: <i>W/SA</i> Date: <i>3-21-23</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Water Wash Analyst/Date: <i>CTO 3/21/23</i> | Methylene Chloride L002621 Vialing Analyst: <i>CTO</i> Date: <i>3/21/23</i> Methylene Chloride L002621 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



Extraction Parameter: SWA Extraction Batch BLC0442 RE

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

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



Batch: BLC0442 **RE**

Prepared using: EPA 3546 (Microwave)

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

Matrix: Solid

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

Balance ID: **B146462614**

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

From BLA0557 on 3/16/2023 by CTO

WO Comments

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

The following standards may be missing from this batch!

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



Batch: BLC0442

Prepared using: EPA 3546 (Microwave)

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

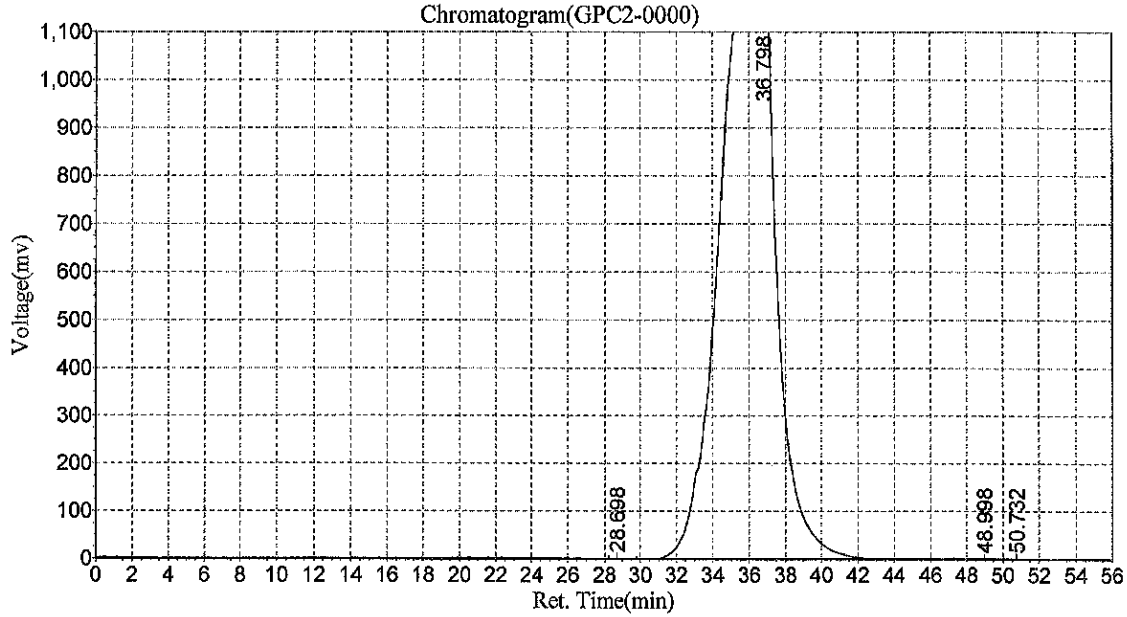
WO Comments
 23A0179: <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM K000591, SIM PAH RM 1009127 PCB RM J006840-43, 7935-36,K011477-79, MS/MSD </E>
 <H>BPR J006840-43, 7935-36, K011477-79, Dup </H> Store in freezer (except GS)
 23A0180: <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M>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

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

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

Date:2023-03-20,2:01:58 PM
 Data File:c:\n2000\data\gpc2\032023\GPC2-0000
 Method File:E:\GPC2_InHouse.mtd

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



Results

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

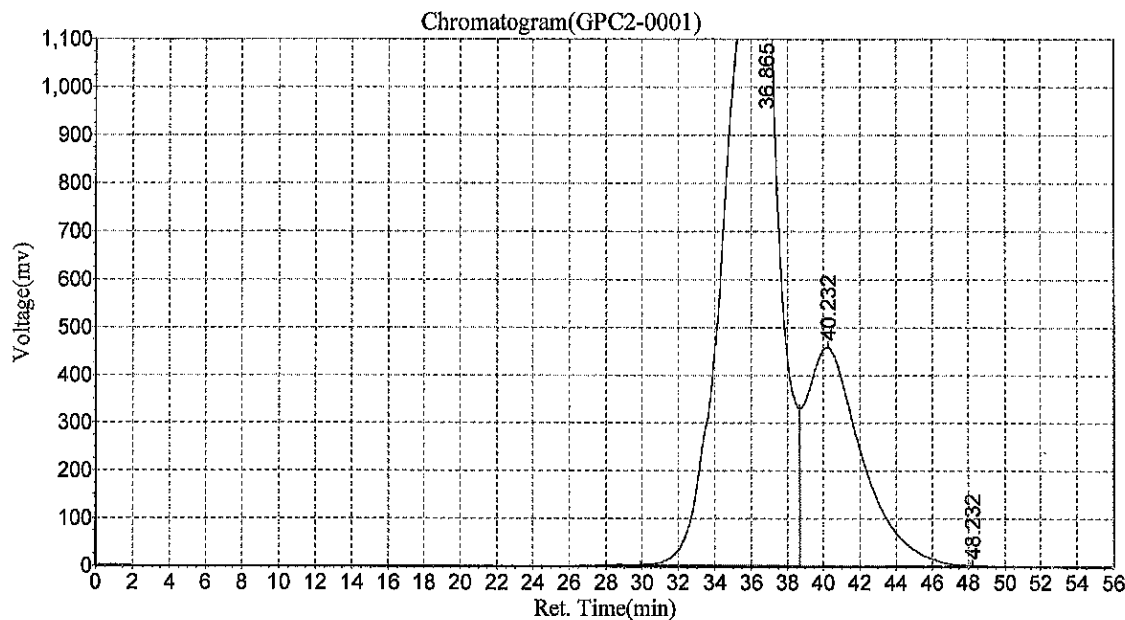
Ingredient Table

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

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

Date:2023-03-20,2:59:45 PM
Data File:c:\n2000\data\gpc2\032023\GPC2-0001
Method File:E:\GPC2_InHouse.mtd

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



Results

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

Ingredient Table

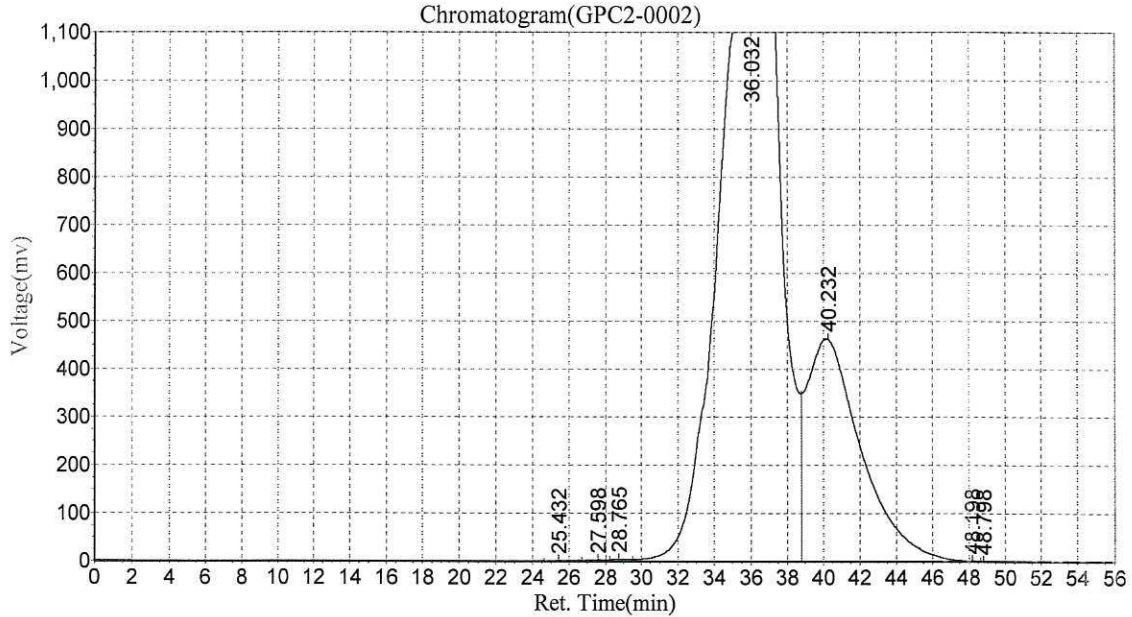
| No | Peak ID | Ret Time | Peak Width | Factor1 | Factor2 | ISTD Wt. |
|----|--------------|----------|------------|-----------|-----------|----------|
| 1 | Collect Pest | 29.000 | 0.010 | 0.00E+000 | 0.00E+000 | 0.0000 |
| 2 | Dump Pest | 46.000 | 0.010 | 0.00E+000 | 0.00E+000 | 0.0000 |
| 3 | Dump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

BSP1

BLC0442/423/23A0179/180/23C0174

Date:2023-03-20,3:57:27 PM
 Data File:c:\n2000\data\gpc2\032023\GPC2-0002
 Method File:E:\GPC2_InHouse.mtd

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



Results

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

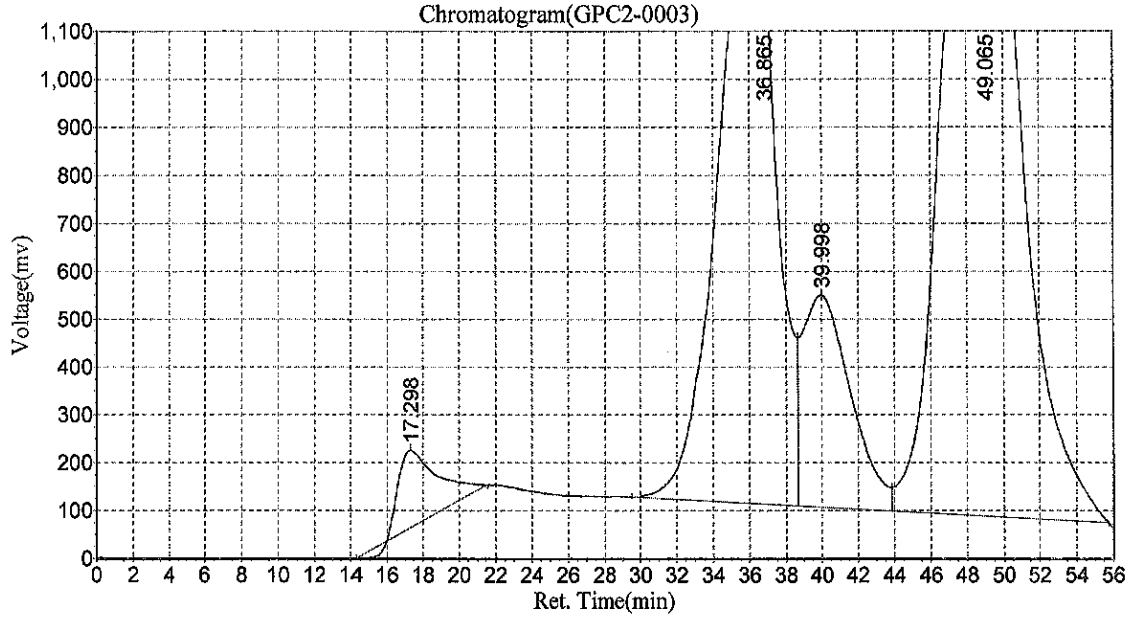
Ingredient Table

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

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

Date:2023-03-20,4:55:10 PM
 Data File:c:\n2000\data\gpc2\032023\GPC2-0003
 Method File:E:\GPC2_InHouse.mtd

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



Results

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

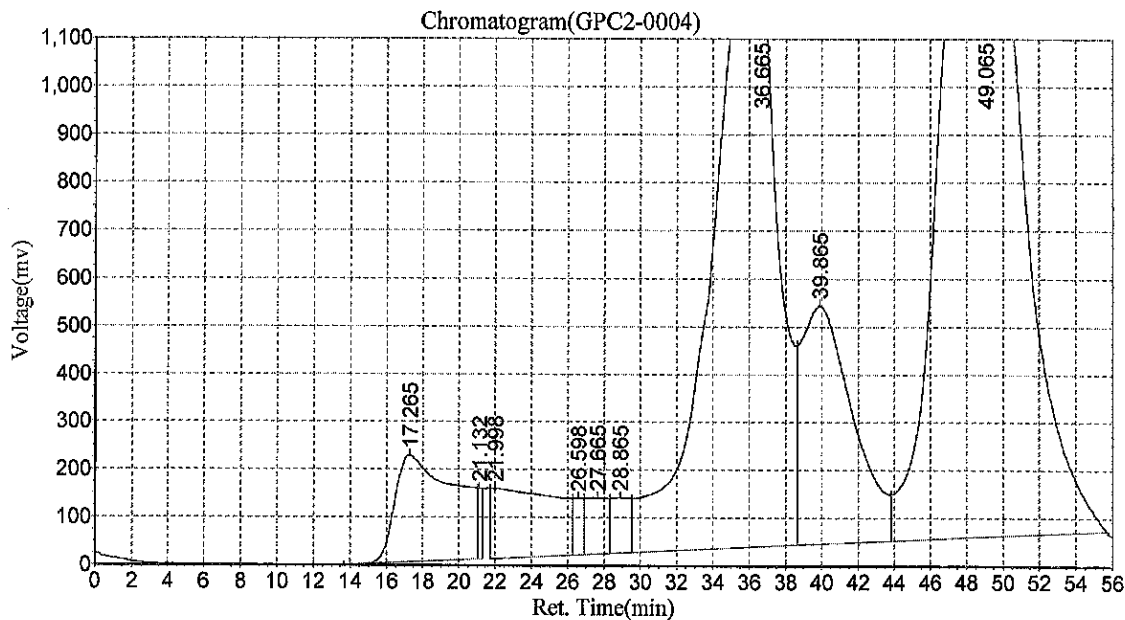
Ingredient Table

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

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

Date:2023-03-20,5:52:52 PM
Data File:c:\n2000\data\gpc2\032023\GPC2-0004
Method File:E:\GPC2_InHouse.mtd

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



Results

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

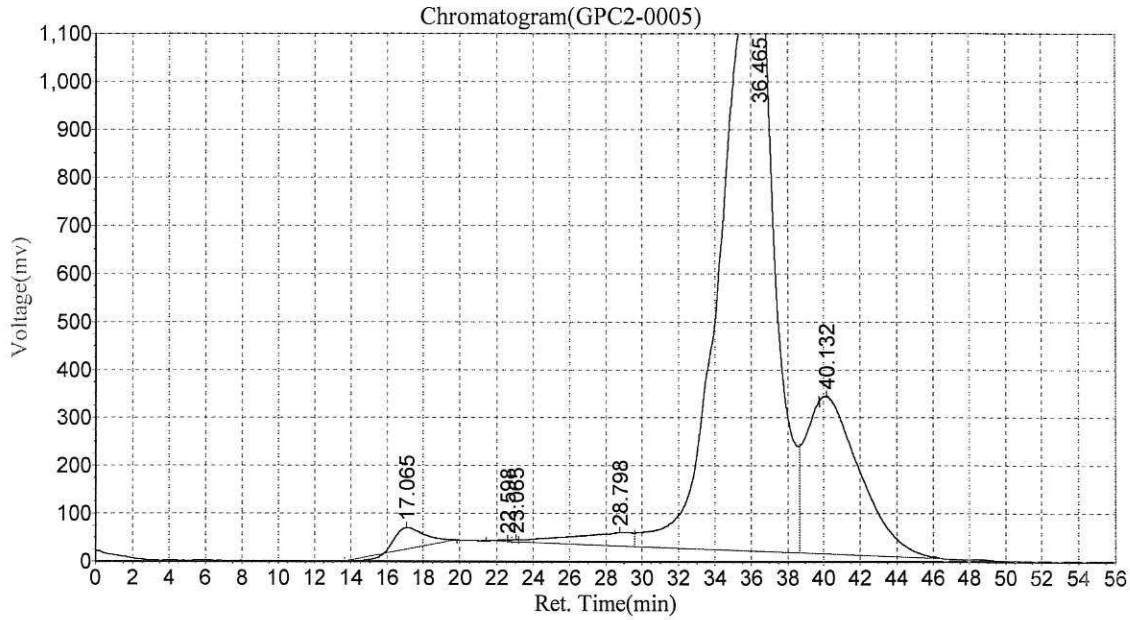
Ingredient Table

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

BLC0442/423/23A0179/180/23C0174

Date:2023-03-20,6:50:39 PM
Data File:c:\n2000\data\gpc2\032023\GPC2-0005
Method File:E:\GPC2_InHouse.mtd

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



Results

Table with 6 columns: Peak No., Peak ID, Ret Time, Height, Area, Conc. It lists 6 peaks and a total row.

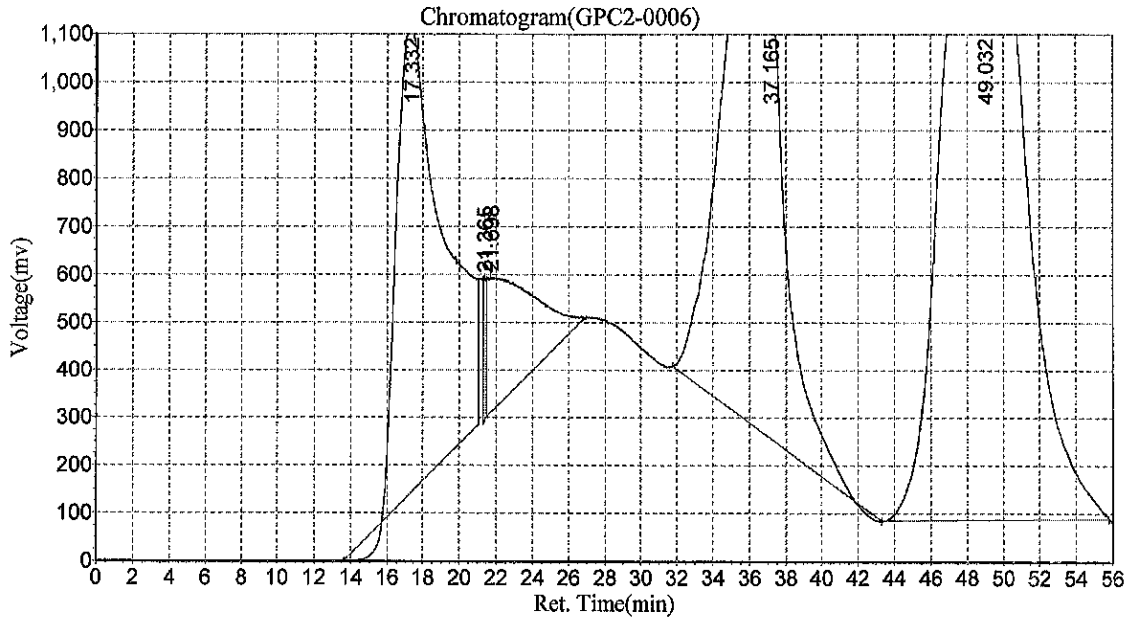
Ingredient Table

Table with 7 columns: No, Peak ID, Ret Time, Peak Width, Factor1, Factor2, ISTD Wt. It lists 4 ingredients.

BLC0442/423/23A0179/180/23C0174

Date:2023-03-20,7:48:21 PM
 Data File:c:\n2000\data\gpc2\032023\GPC2-0006
 Method File:E:\GPC2_InHouse.mtd

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



Results

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

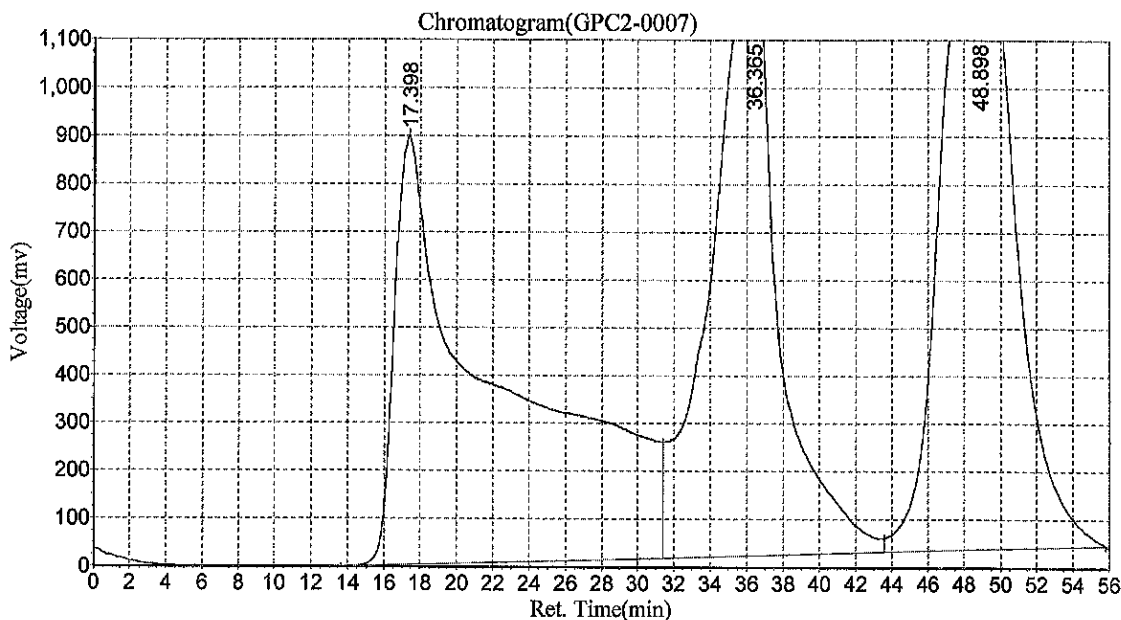
Ingredient Table

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

BLC0442/423/23A0179/180/23C0174

Date:2023-03-20,8:46:03 PM
 Data File:c:\n2000\data\gpc2\032023\GPC2-0007
 Method File:E:\GPC2_InHouse.mtd

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



Results

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

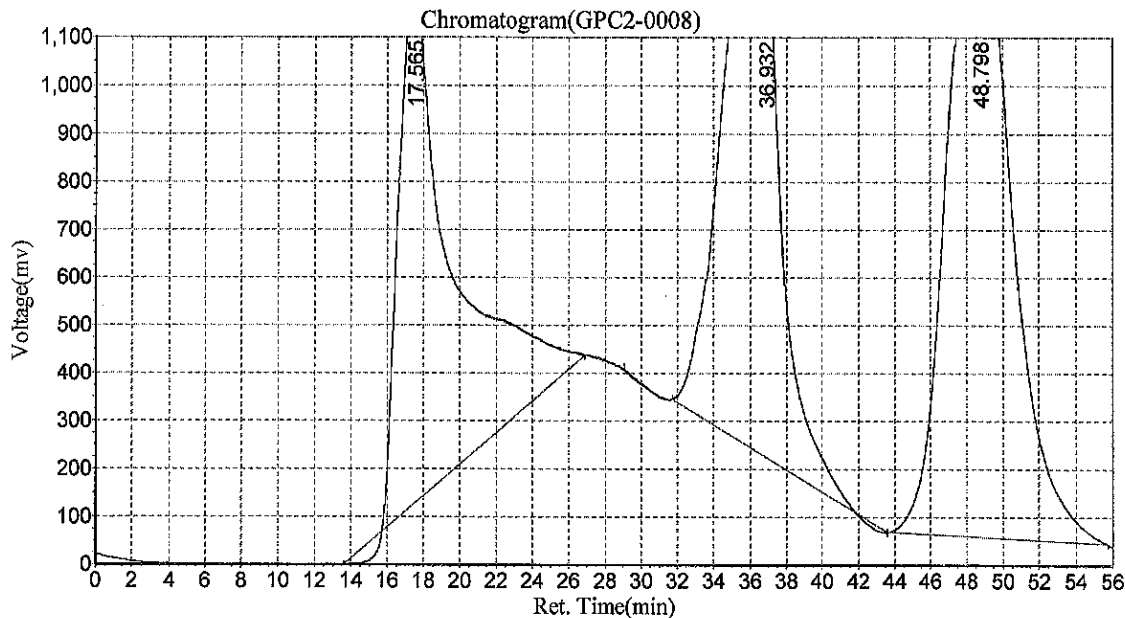
Ingredient Table

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

BLC0442/423/23A0179/180/23C0174 ⁰³

Date:2023-03-20,9:43:44 PM
 Data File:c:\n2000\data\gpc2\032023\GPC2-0008
 Method File:E:\GPC2_InHouse.mtd

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



Results

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

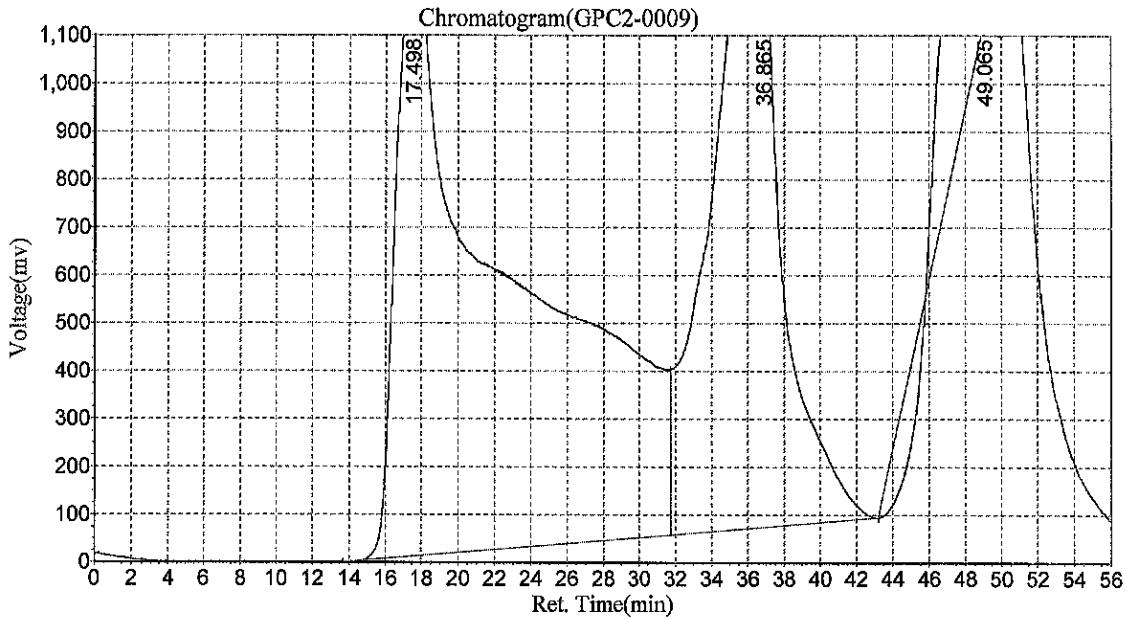
Ingredient Table

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

BLC0442/423/23A0179/180/23C0174

Date:2023-03-20,10:41:32 PM
 Data File:c:\n2000\data\gpc2\032023\GPC2-0009
 Method File:E:\GPC2_InHouse.mtd

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



Results

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

Ingredient Table

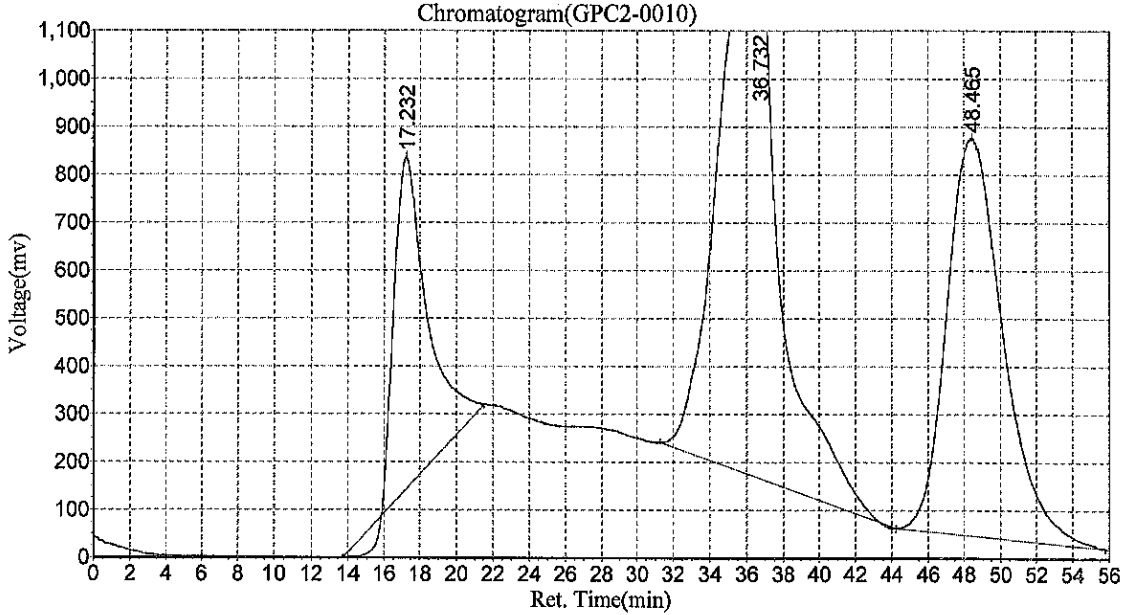
| No | Peak ID | Ret Time | Peak Width | Factor1 | Factor2 | ISTD Wt. |
|----|--------------|----------|------------|-----------|-----------|----------|
| 1 | Collect Pest | 29.000 | 0.010 | 0.00E+000 | 0.00E+000 | 0.0000 |
| 2 | Dump Pest | 46.000 | 0.010 | 0.00E+000 | 0.00E+000 | 0.0000 |
| 3 | Dump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

BLC0442/423/23A0179/180/23C0174

05

Date:2023-03-20,11:39:14 PM
 Data File:c:\n2000\data\gpc2\032023\GPC2-0010
 Method File:E:\GPC2_InHouse.mtd

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



Results

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

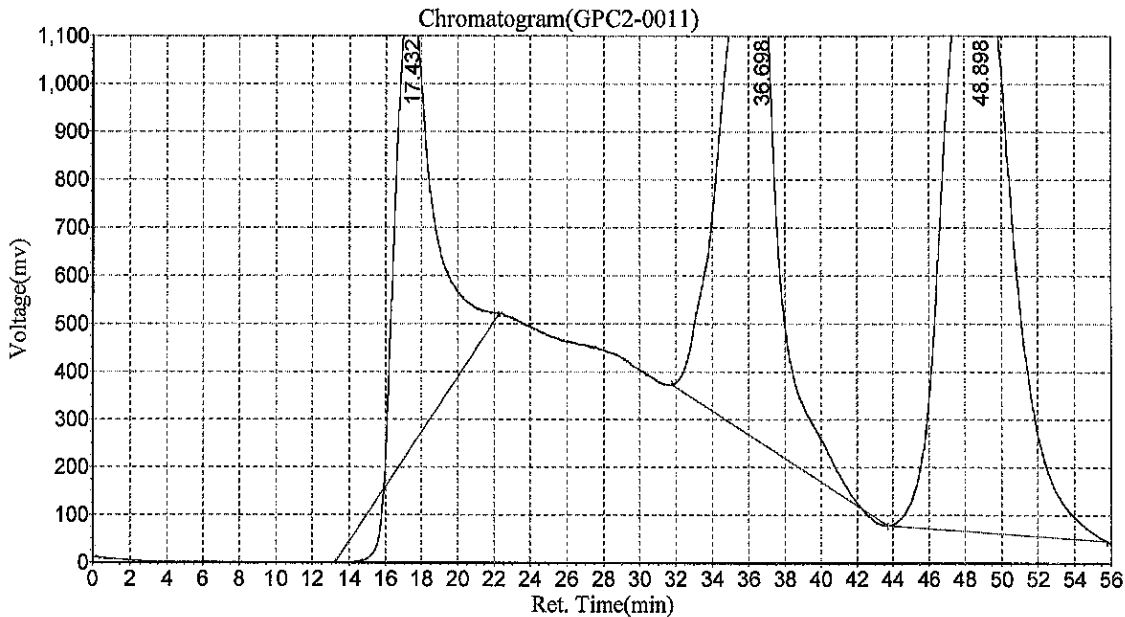
Ingredient Table

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

BLC0442/423/23A0179/180/23C0174

Date:2023-03-21,12:36:57 AM
 Data File:c:\n2000\data\gpc2\032023\GPC2-0011
 Method File:E:\GPC2_InHouse.mtd

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



Results

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

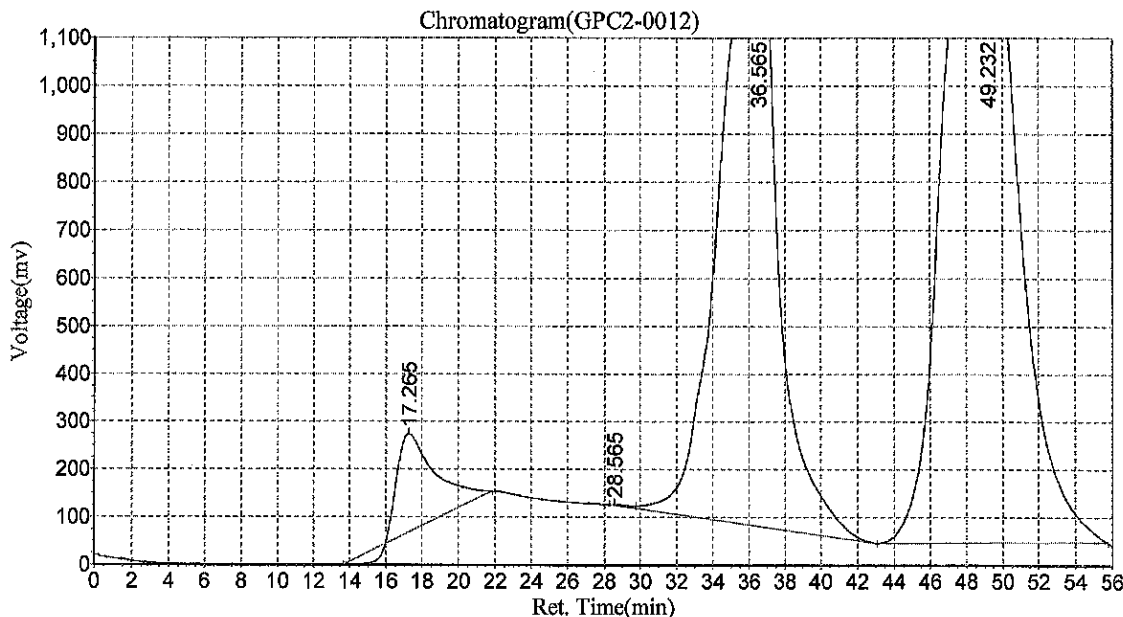
Ingredient Table

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

BLC0442/423/23A0179/180/23C0174

Date:2023-03-21,1:34:38 AM
 Data File:c:\n2000\data\gpc2\032023\GPC2-0012
 Method File:E:\GPC2_InHouse.mtd

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



Results

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

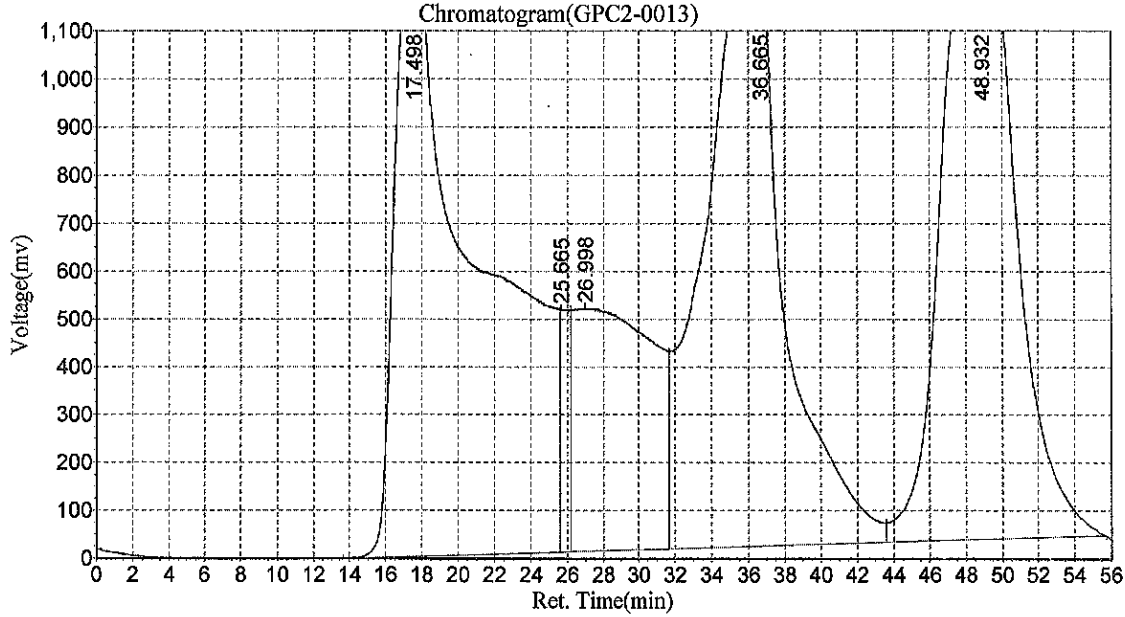
Ingredient Table

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

BLC0442/423/23A0179/180/23C0174 -08

Date:2023-03-21,2:32:26 AM
Data File:c:\n2000\data\gpc2\032023\GPC2-0013
Method File:E:\GPC2_InHouse.mtd

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



Results

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

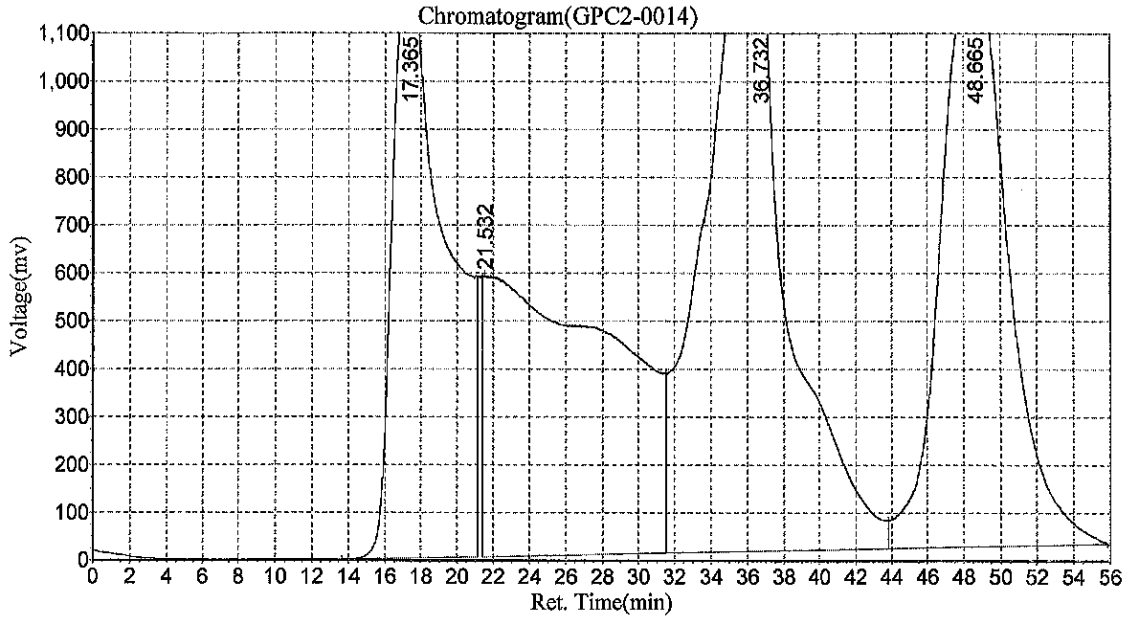
Ingredient Table

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

BLC0442/423/23A0179/180/23C0174

Date:2023-03-21,3:30:08 AM
 Data File:c:\n2000\data\gpc2\032023\GPC2-0014
 Method File:E:\GPC2_InHouse.mtd

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



Results

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

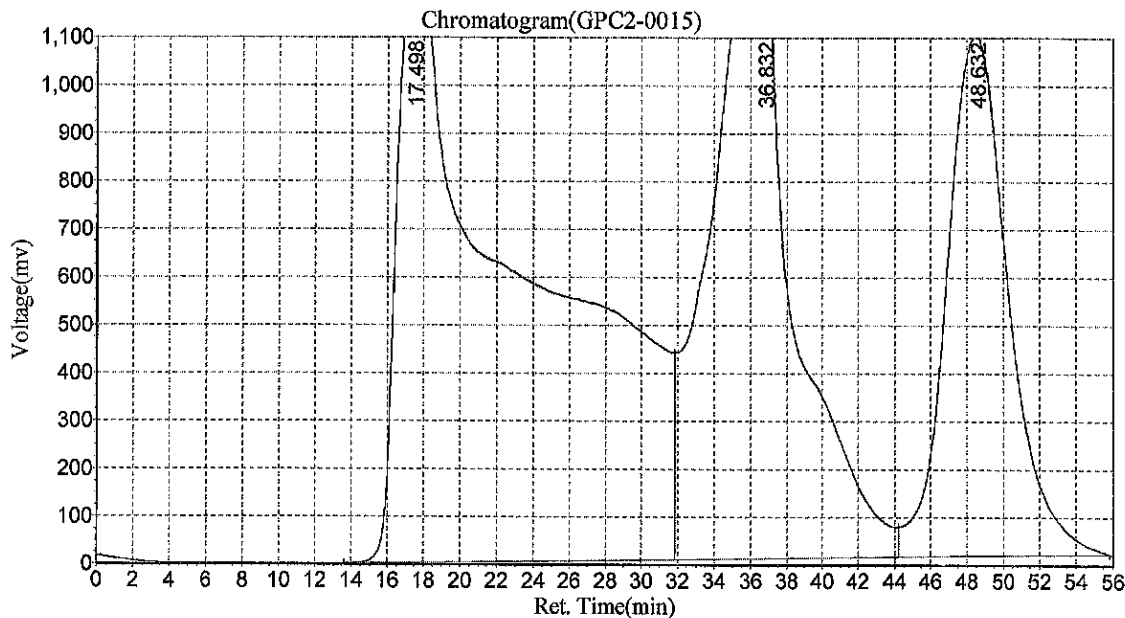
Ingredient Table

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

BLC0442/423/23A0179/180/23C0174 ¹⁰

Date:2023-03-21,4:27:51 AM
 Data File:c:\n2000\data\gpc2\032023\GPC2-0015
 Method File:E:\GPC2_InHouse.mtd

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



Results

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

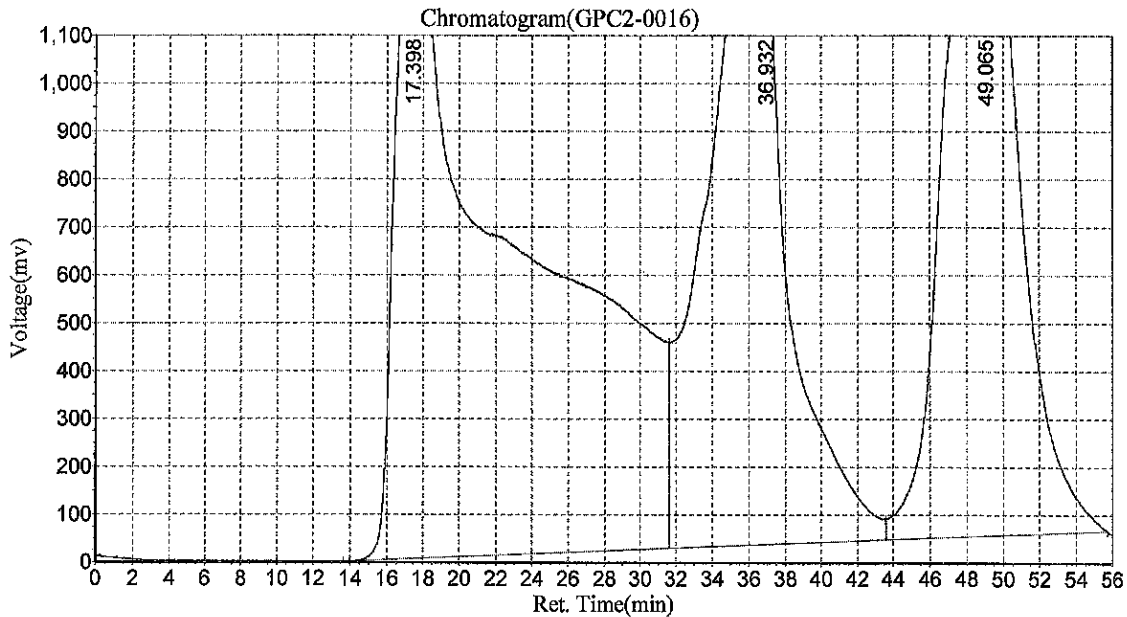
Ingredient Table

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

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

Date:2023-03-21,5:25:33 AM
 Data File:c:\n2000\data\gpc2\032023\GPC2-0016
 Method File:E:\GPC2_InHouse.mtd

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



Results

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

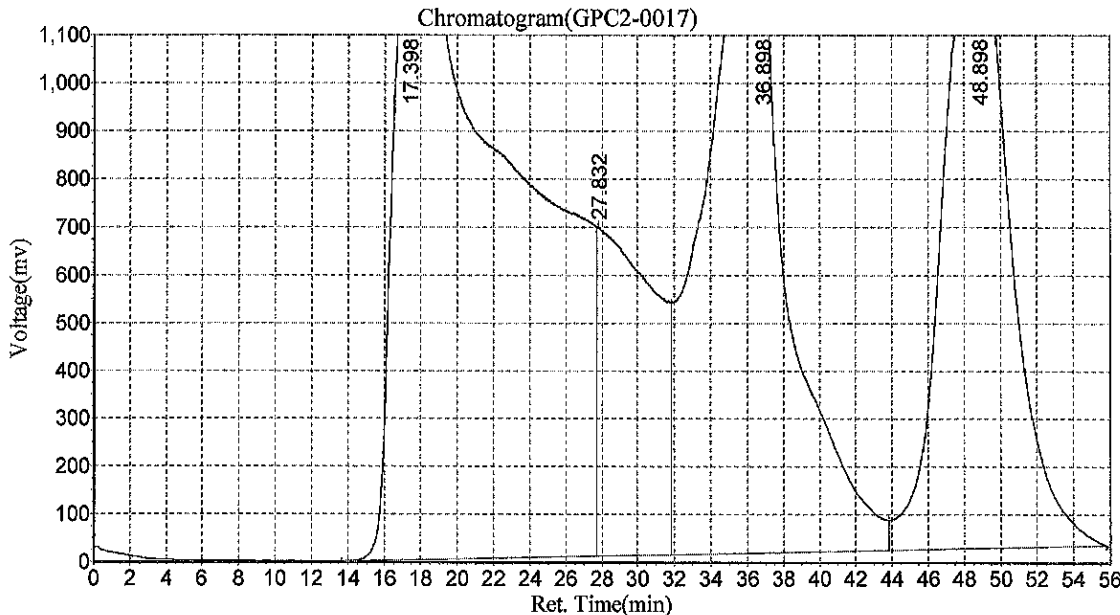
Ingredient Table

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

BLC0442/423/23A0179/180/23C0174

Date:2023-03-21,6:23:16 AM
 Data File:c:\n2000\data\gpc2\032023\GPC2-0017
 Method File:E:\GPC2_InHouse.mtd

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



Results

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

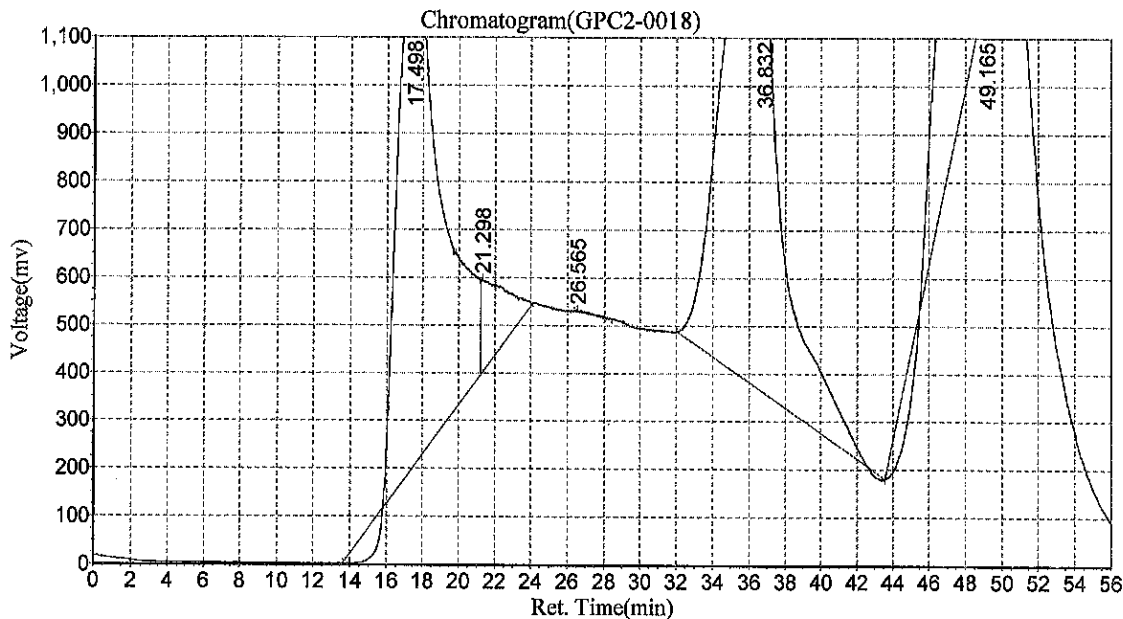
Ingredient Table

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

BLC0442/423/23A0179/180/23C0174

Date:2023-03-21,7:20:57 AM
 Data File:c:\n2000\data\gpc2\032023\GPC2-0018
 Method File:E:\GPC2_InHouse.mtd

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



Results

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

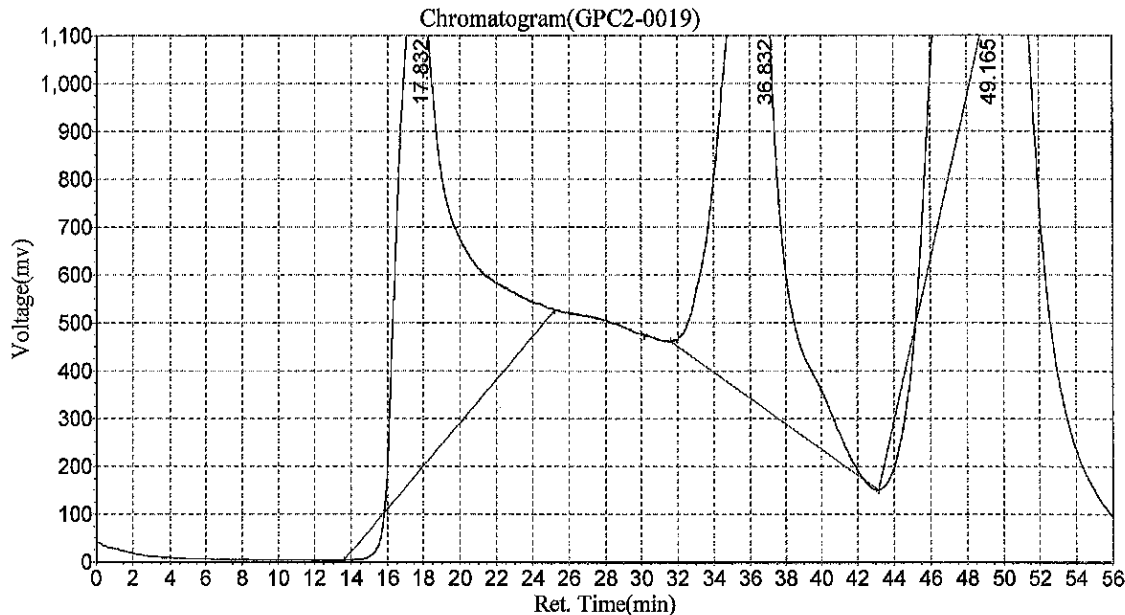
Ingredient Table

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

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

Date:2023-03-21,8:18:40 AM
Data File:c:\n2000\data\gpc2\032023\GPC2-0019
Method File:E:\GPC2_InHouse.mtd

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



Results

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

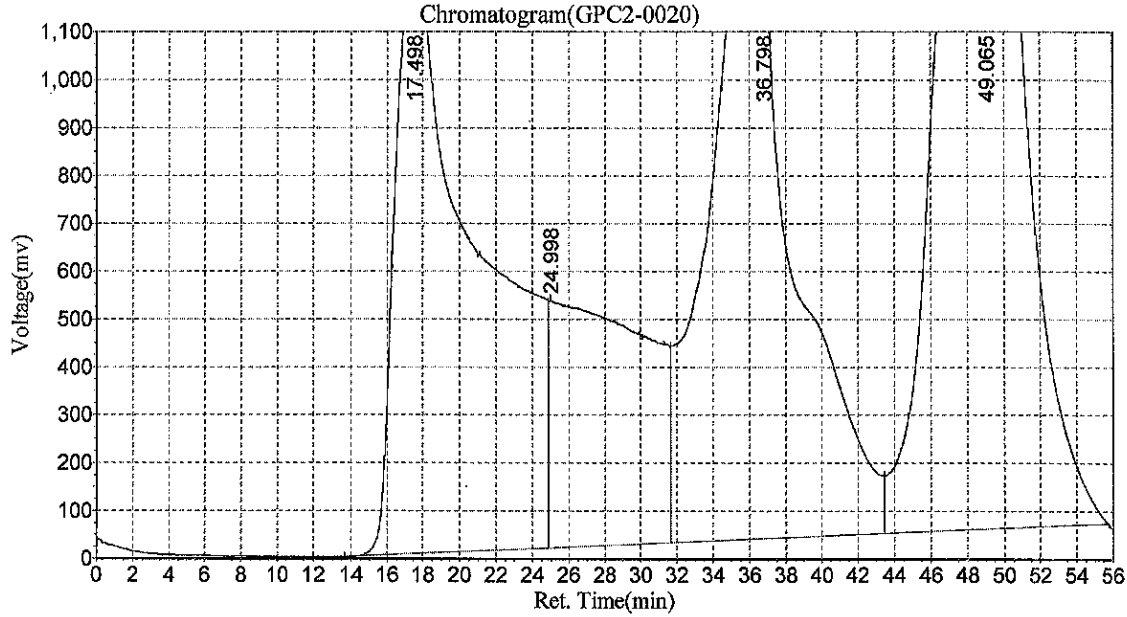
Ingredient Table

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

BLC0442/423/23A0179/180/23C0174

Date:2023-03-21,9:16:22 AM
 Data File:c:\n2000\data\gpc2\032023\GPC2-0020
 Method File:E:\GPC2_InHouse.mtd

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



Results

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

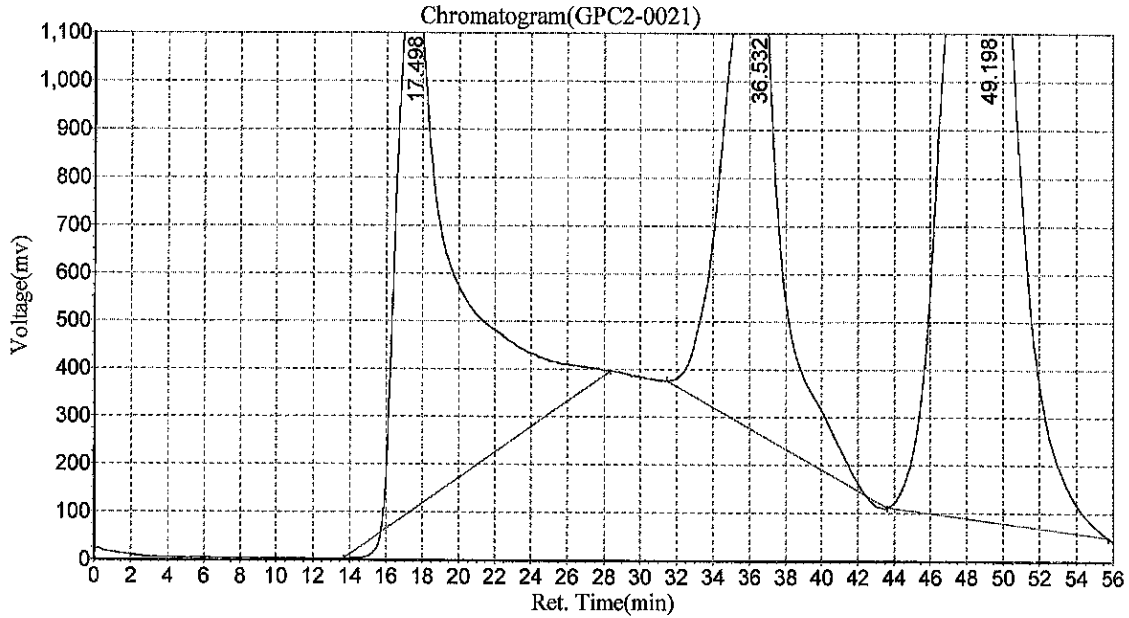
Ingredient Table

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

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

Date:2023-03-21,10:14:10 AM
Data File:c:\n2000\data\gpc2\032023\GPC2-0021
Method File:E:\GPC2_InHouse.mtd

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



Results

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

Ingredient Table

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



Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BATCH SUMMARY

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Cleanup Batch: CLB0033

Cleanup Type: GPC

Cleanup Method: EPA 3640A GPC Cleanup 1:1

Analysis: EPA 8270E-SIM

| SAMPLE NAME | LAB SAMPLE ID | LAB FILE ID | DATE PREPARED | OBSERVATIONS |
|-----------------|---------------|-------------|---------------|--------------|
| LDW23-SC1151 | 23A0180-04 | | 02/05/2023 | |
| LDW23-SC1164-FD | 23A0180-02 | | 02/05/2023 | |
| LDW23-SC1164 | 23A0180-01 | | 02/05/2023 | |
| LDW23-SC1158 | 23A0180-03 | | 02/05/2023 | |



CLEANUP BENCH SHEET

CLB0033

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

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



CLEANUP BENCH SHEET

CLB0033

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

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



CLEANUP BENCH SHEET

CLB0033

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

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



CLEANUP BATCH SUMMARY

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Cleanup Batch: CLC0186

Cleanup Type: GPC

Cleanup Method: EPA 3640A GPC Cleanup 1:1

Analysis: EPA 8270E-SIM

| SAMPLE NAME | LAB SAMPLE ID | LAB FILE ID | DATE PREPARED | OBSERVATIONS |
|-----------------|---------------|-----------------|---------------|--------------|
| LDW23-SC1164-FD | 23A0180-02RE1 | NT1003222330S.D | 03/21/2023 | |
| Reference | BLC0442-SRM2 | NT1003222309S.D | 03/21/2023 | |
| LDW23-SC1151 | 23A0180-04RE1 | NT1003222332S.D | 03/21/2023 | |
| LDW23-SC1158 | 23A0180-03RE1 | NT1003222331S.D | 03/21/2023 | |
| LDW23-SC1164 | 23A0180-01RE1 | NT1003222329S.D | 03/21/2023 | |
| Blank | BLC0442-BLK2 | NT1003222306S.D | 03/21/2023 | |
| LCS Dup | BLC0442-BSD2 | NT1003222308S.D | 03/21/2023 | |
| LCS | BLC0442-BS2 | NT1003222307S.D | 03/21/2023 | |



CLEANUP BENCH SHEET

CLC0186

Matrix: Solid

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

Check Standard: CLB0132-GPC2

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

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



CLEANUP BENCH SHEET

CLC0186

Matrix: Solid

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

Check Standard: CLB0132-GPC2

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

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



CLEANUP BENCH SHEET

CLC0186

Matrix: Solid

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

Check Standard: CLB0132-GPC2

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

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



Form I
METHOD BLANK DATA SHEET
EPA 8270E-SIM

| |
|--------------|
| Blank |
|--------------|

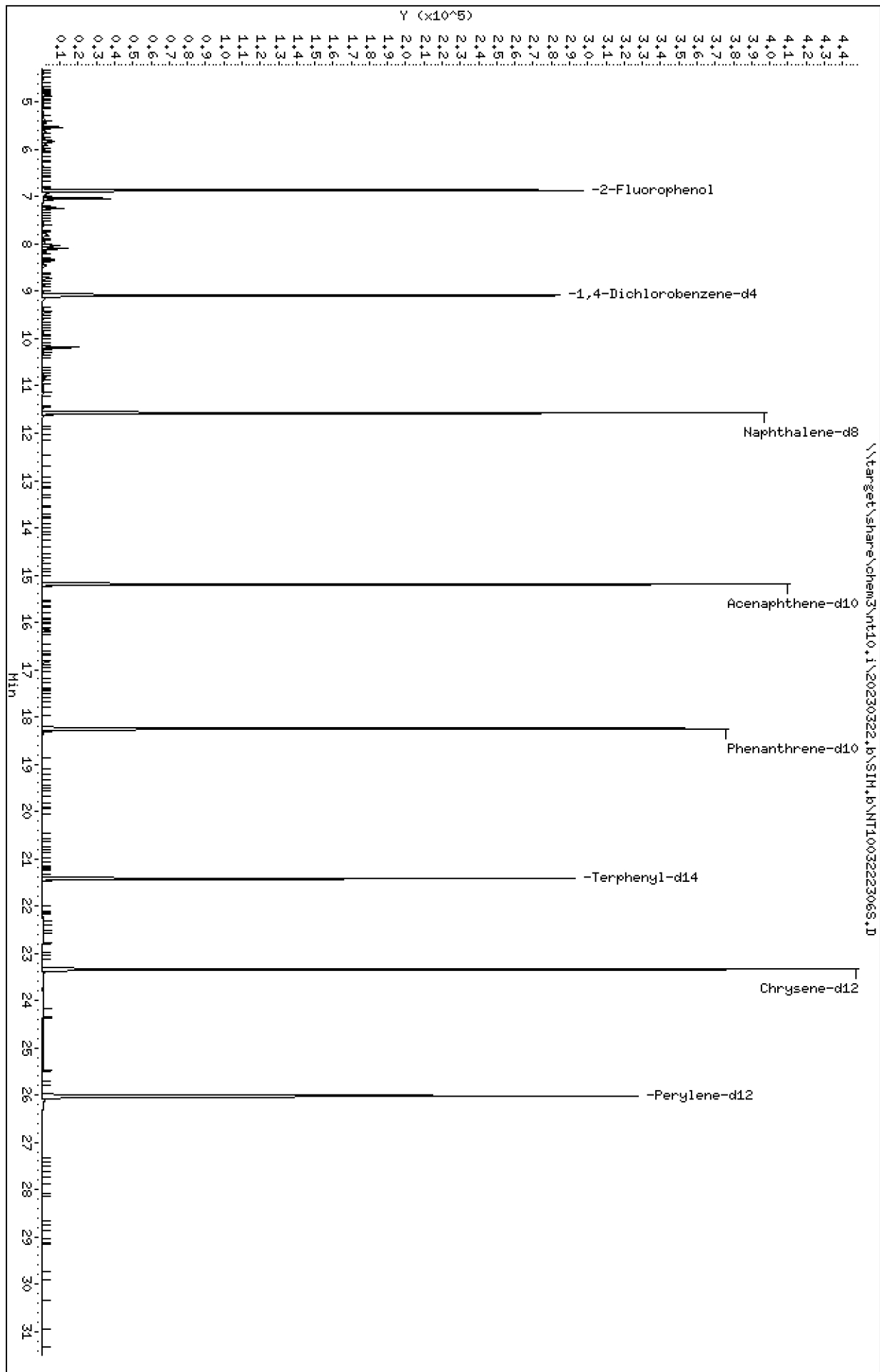
| | | | |
|-------------|----------------------------------|----------------|-----------------------------|
| Laboratory: | <u>Analytical Resources, LLC</u> | SDG: | <u>23A0180</u> |
| Client: | <u>Anchor QEA, LLC</u> | Project: | <u>AOC5 MR Phase 1</u> |
| Matrix: | <u>Solid</u> | Laboratory ID: | <u>BLC0442-BLK2</u> |
| Sampled: | <u>N/A</u> | Prepared: | <u>03/17/23 11:16</u> |
| Solids: | | Preparation: | <u>EPA 3546 (Microwave)</u> |
| Batch: | <u>BLC0442</u> | Sequence: | <u>SLC0407</u> |
| Instrument: | <u>NT10</u> | Column: | <u>ZB-5MSi</u> |
| | | File ID: | <u>NT1003222306S.D</u> |
| | | Analyzed: | <u>03/22/23 20:16</u> |
| | | Initial/Final: | <u>10 g / 1 mL</u> |
| | | Calibration: | <u>GC00049</u> |
| | | Cleanups: | <u>GPC</u> |

| CAS NO. | COMPOUND | DILUTION | CONC: (ug/kg wet) | Q | DL | RL |
|----------|------------------------|----------|----------------------|---|------|------|
| 106-46-7 | 1,4-Dichlorobenzene | 1 | 5.0 | U | 0.6 | 5.0 |
| 95-50-1 | 1,2-Dichlorobenzene | 1 | 5.0 | U | 0.7 | 5.0 |
| 100-51-6 | Benzyl Alcohol | 1 | 20.0 | U | 2.5 | 20.0 |
| 65-85-0 | Benzoic acid | 1 | 100 | U | 13.4 | 100 |
| 105-67-9 | 2,4-Dimethylphenol | 1 | 20.0 | U | 2.2 | 20.0 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1 | 5.0 | U | 2.7 | 5.0 |
| 86-30-6 | N-Nitrosodiphenylamine | 1 | 5.0 | U | 1.3 | 5.0 |
| 87-86-5 | Pentachlorophenol | 1 | 20.0 | U | 2.1 | 20.0 |

| SURROGATES | ADDED: (ug/kg wet) | FOUND: (ug/kg wet) | % REC | QC LIMITS | Q |
|-----------------|-----------------------|-----------------------|-------|-----------|---|
| 2-Fluorophenol | 750.00 | 531 | 70.8 | 27 - 120 | |
| p-Terphenyl-d14 | 500.00 | 421 | 84.1 | 37 - 120 | |

Data File: \\target\share\chem3\nt10.1\20230322.16\SIM.B\NT100322306S.D
 Date: 22-MAR-2023 20:16
 Client ID:
 Sample Info: BLC0442-BLK1
 Volume Injected (uL): 1.0
 Column phase: ZB-5msi

Instrument: nt10.1
 Operator: JGR
 Column diameter: 0.25



Date : 22-MAR-2023 20:16

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BLK1

Volume Injected (uL): 1.0

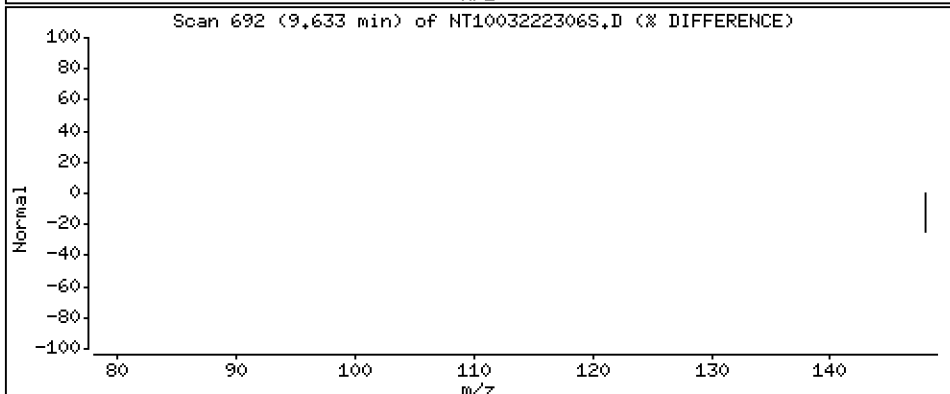
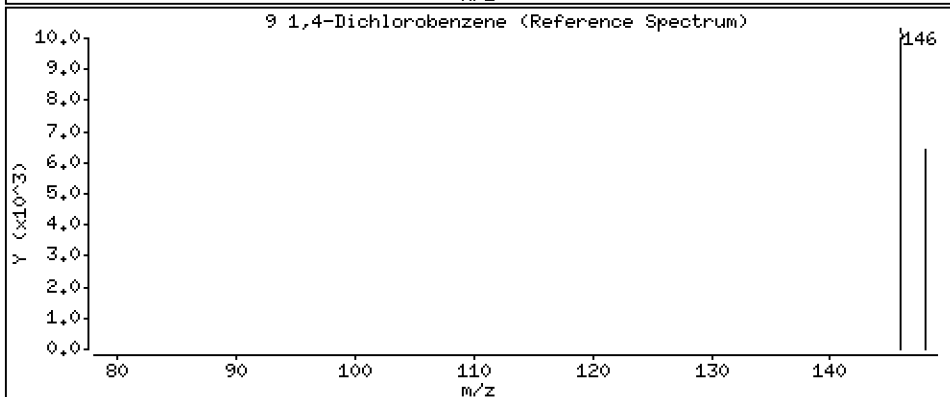
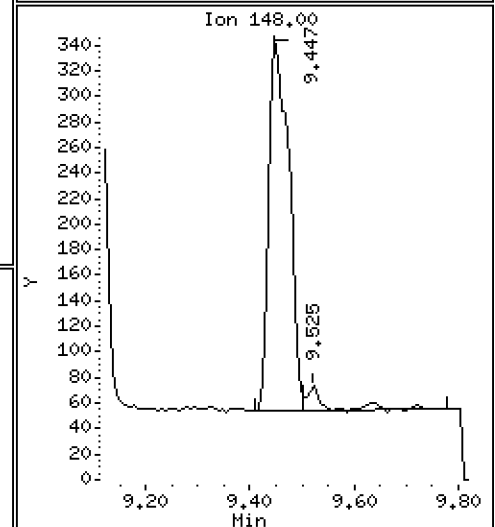
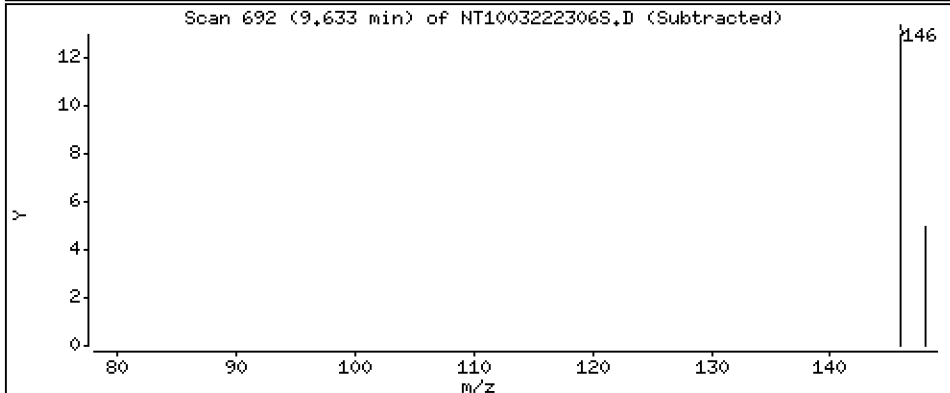
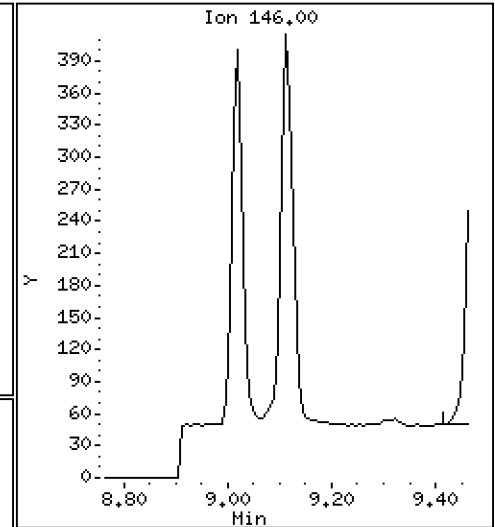
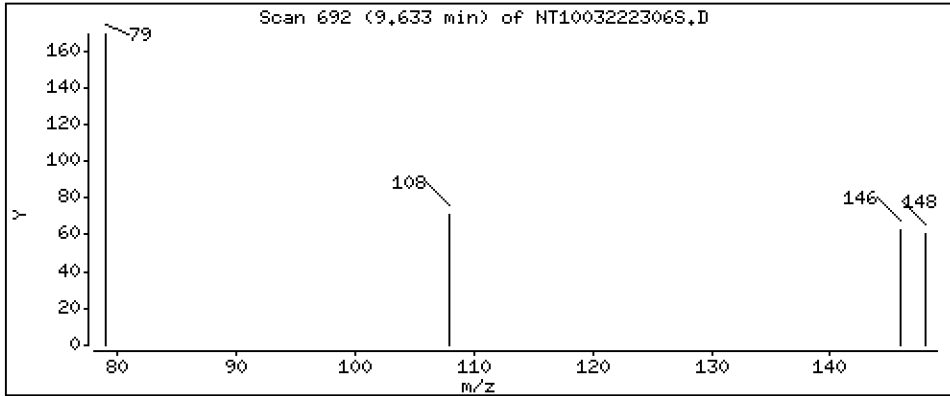
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 0,0003456 ug/L



Date : 22-MAR-2023 20:16

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BLK1

Volume Injected (uL): 1.0

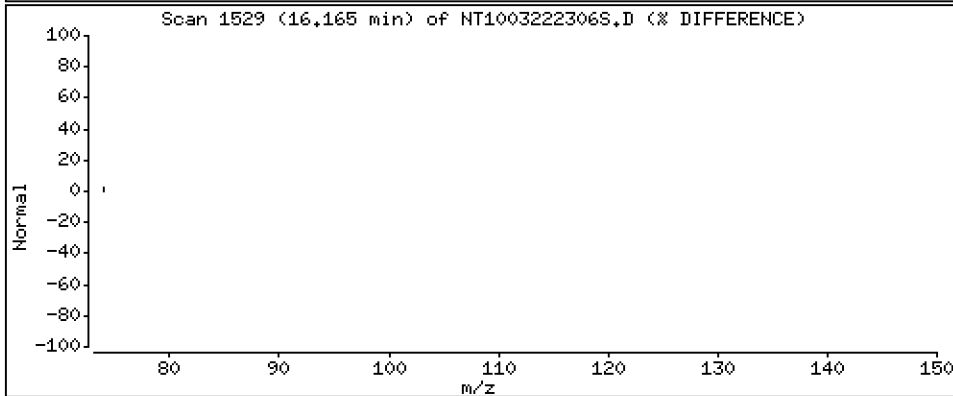
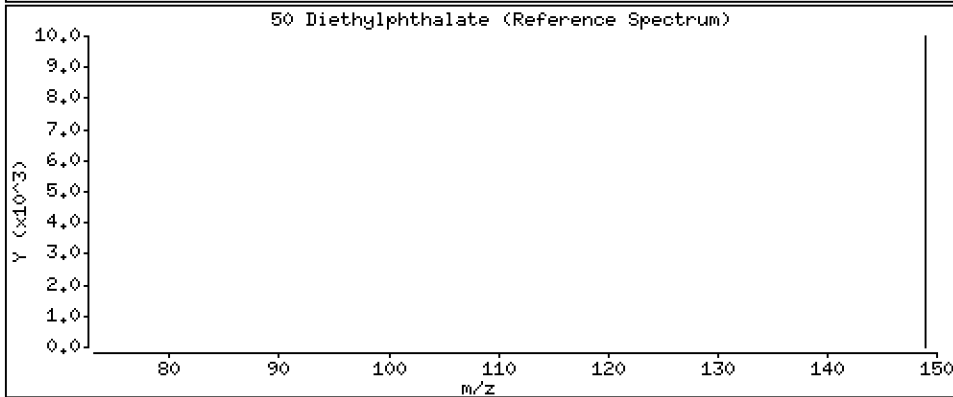
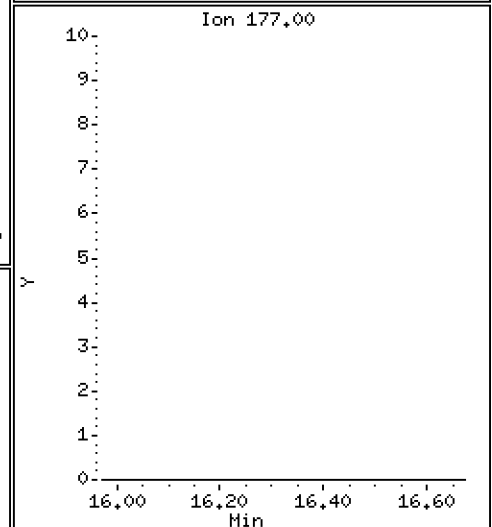
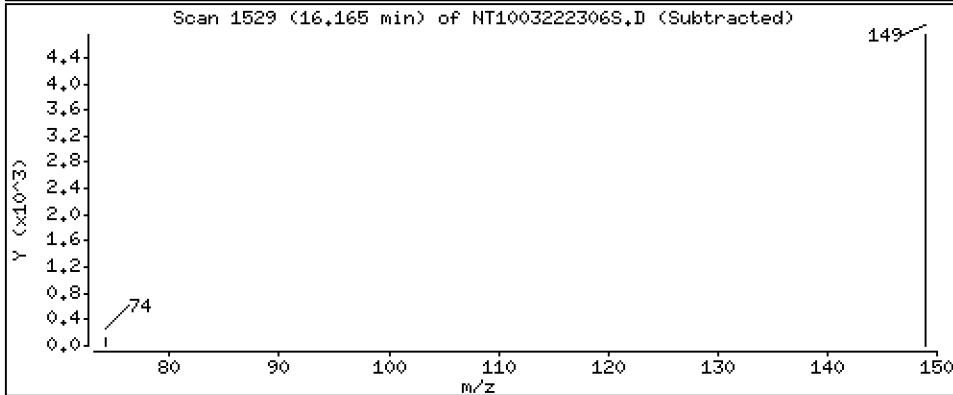
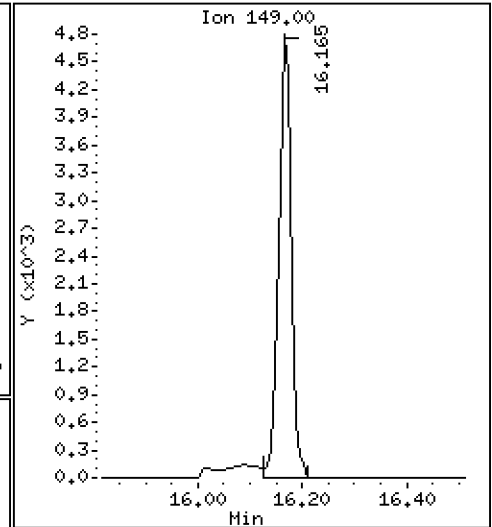
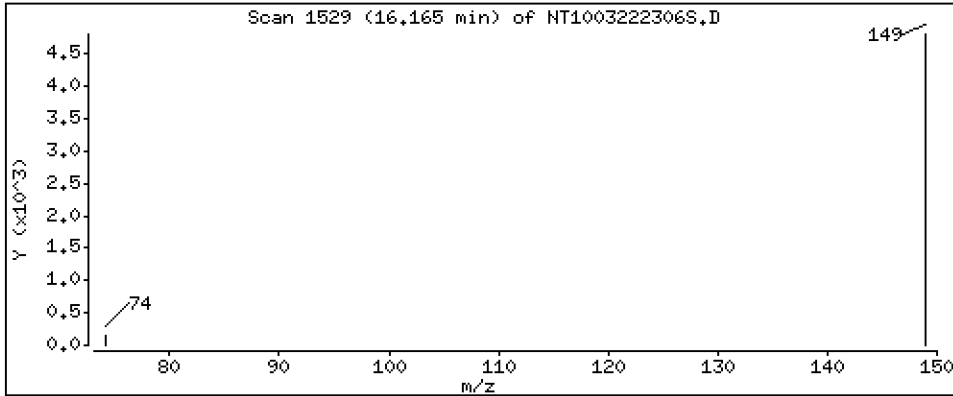
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 0,07539 ug/L



ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230322.b\SIM.b\NT1003222306S.D
 Lab Smp Id: BLC0442-BLK2
 Inj Date : 22-MAR-2023 20:16 MS Autotune Date: 16-JAN-2023 17:42
 Operator : JGR Inst ID: nt10.i
 Smp Info : BLC0442-BLK1
 Misc Info :
 Comment :
 Method : \\target\share\chem3\nt10.i\20230322.b\SIM.b\SIMABN2.m
 Meth Date : 25-Mar-2023 13:23 yev Quant Type: ISTD
 Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D
 Als bottle: 6
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: PSDDA.sub
 Target Version: 4.14
 Processing Host: ORGDATA102

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

| Name | Value | Description |
|---------------|----------|---------------------------------|
| DF | 1.000 | Dilution Factor |
| Vo | 1000.000 | Volume of sample extracted (mL) |
| Vt | 1000.000 | Volume of final extract (uL) |
| Vi | 1.000 | Volume injected (uL) |
| Uf | 1.000 | ng unit correction factor |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT | SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|-------------------------------|-------|-----|------------------------|--------|---------|----------|-------------------|---------------|
| | | | | | | | ON-COLUMN (ug/mL) | FINAL (ug/L) |
| \$ 1 2-Fluorophenol | 112 | | 6.864 | 6.856 | (0.755) | 297521 | 5.30997 | 5.310 (R) |
| 3 Phenol | 94 | | Compound Not Detected. | | | | | |
| 7 1,3-Dichlorobenzene | 146 | | Compound Not Detected. | | | | | |
| * 8 1,4-Dichlorobenzene-d4 | 152 | | 9.089 | 9.090 | (1.000) | 184770 | 4.00000 | |
| 9 1,4-Dichlorobenzene | 146 | | 9.633 | 9.113 | (1.060) | 24 | 3e-004 | 0.0003456 (H) |
| 11 Benzyl alcohol | 79 | | Compound Not Detected. | | | | | |
| 12 1,2-Dichlorobenzene | 146 | | Compound Not Detected. | | | | | |
| 13 2-Methylphenol | 108 | | Compound Not Detected. | | | | | |
| 15 4-Methylphenol | 108 | | Compound Not Detected. | | | | | |
| 16 N-Nitroso-di-n-propylamine | 70 | | Compound Not Detected. | | | | | |
| 22 2,4-Dimethylphenol | 107 | | Compound Not Detected. | | | | | |
| 24 Benzoic acid | 105 | | Compound Not Detected. | | | | | |
| 26 1,2,4-Trichlorobenzene | 180 | | Compound Not Detected. | | | | | |
| * 27 Naphthalene-d8 | 136 | | 11.569 | 11.569 | (1.000) | 645327 | 4.00000 | |
| 30 Hexachlorobutadiene | 225 | | Compound Not Detected. | | | | | |
| 39 Dimethylphthalate | 163 | | Compound Not Detected. | | | | | |
| * 42 Acenaphthene-d10 | 162 | | 15.198 | 15.198 | (1.000) | 320820 | 4.00000 | |
| 50 Diethylphthalate | 149 | | 16.165 | 16.165 | (1.064) | 7907 | 0.07539 | 0.07539 |
| 54 N-Nitrosodiphenylamine | 169 | | Compound Not Detected. | | | | | |
| 57 Hexachlorobenzene | 284 | | Compound Not Detected. | | | | | |

| Compounds | QUANT | SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|---------------------------|-------|-----|------------------------|--------|---------|----------|----------------|----------|
| | | | | | | | ON-COLUMN | FINAL |
| | MASS | | | | | | (ug/mL) | (ug/L) |
| ===== | ===== | | ===== | ===== | ===== | ===== | ===== | ===== |
| 58 Pentachlorophenol | 266 | | Compound Not Detected. | | | | | |
| * 59 Phenanthrene-d10 | 188 | | 18.250 | 18.250 | (1.000) | 609921 | 4.00000 | |
| \$ 66 Terphenyl-d14 | 244 | | 21.422 | 21.422 | (0.918) | 362001 | 4.20654 | 4.207(R) |
| 67 Butylbenzylphthalate | 149 | | Compound Not Detected. | | | | | |
| * 69 Chrysene-d12 | 240 | | 23.342 | 23.343 | (1.000) | 528163 | 4.00000 | |
| * 77 Perylene-d12 | 264 | | 26.021 | 26.029 | (1.000) | 592176 | 4.00000 | |
| 79 Dibenzo(a,h)anthracene | 278 | | Compound Not Detected. | | | | | |
| 90 N-Nitrosodimethylamine | 74 | | Compound Not Detected. | | | | | |

QC Flag Legend

- R - Spike/Surrogate failed recovery limits.
- H - Operator selected an alternate compound hit.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i
 Lab File ID: NT1003222306S.D
 Lab Smp Id: BLC0442-BLK2
 Analysis Type: SV
 Quant Type: ISTD
 Operator: JGR
 Method File: \\target\share\chem3\nt10.i\20230322.b\SIM.b\SIMABN2.m
 Misc Info:

Calibration Date: 22-MAR-2023
 Calibration Time: 18:20
 Level: LOW
 Sample Type: AIR

Test Mode:
 Use Last Continuing Calibrator.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|------------|---------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 135191 | 67596 | 270382 | 184770 | 36.67 |
| 27 Naphthalene-d8 | 487226 | 243613 | 974452 | 645327 | 32.45 |
| 42 Acenaphthene-d10 | 246588 | 123294 | 493176 | 320820 | 30.10 |
| 59 Phenanthrene-d10 | 479352 | 239676 | 958704 | 609921 | 27.24 |
| 69 Chrysene-d12 | 439791 | 219896 | 879582 | 528163 | 20.09 |
| 77 Perylene-d12 | 505700 | 252850 | 1011400 | 592176 | 17.10 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 9.09 | 8.59 | 9.59 | 9.09 | -0.00 |
| 27 Naphthalene-d8 | 11.57 | 11.07 | 12.07 | 11.57 | -0.00 |
| 42 Acenaphthene-d10 | 15.20 | 14.70 | 15.70 | 15.20 | -0.00 |
| 59 Phenanthrene-d10 | 18.25 | 17.75 | 18.75 | 18.25 | -0.00 |
| 69 Chrysene-d12 | 23.34 | 22.84 | 23.84 | 23.34 | -0.00 |
| 77 Perylene-d12 | 26.03 | 25.53 | 26.53 | 26.02 | -0.03 |

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

REVIEW SUMMARY FOR FILE - NT1003222306S.D

Lab ID: BLC0442-BLK2

nt10.i, 20230322.b\SIM.b\SIMABN2.m, 22-MAR-2023 20:16

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT | CCV RRT | DELTA | COMPOUND |
|-------|---------|--------|---------------------|
| 1.060 | 1.003 | 0.0572 | 1,4-Dichlorobenzene |

RRT check based on Ccal File: SIM.b/NT1003222303S.D

On Column LOD for nt10.i, SIM.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

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



LCS / LCS DUPLICATE RECOVERY
EPA 8270E-SIM

Laboratory: Analytical Resources, LLC SDG: 23A0180
 Client: Anchor QEA, LLC Project: AOC5 MR Phase 1
 Matrix: Solid Analyzed: 03/22/23 20:54
 Batch: BLC0442 Laboratory ID: BLC0442-BS2
 Preparation: EPA 3546 (Microwave) Sequence Name: LCS
 Initial/Final: 10 g / 1 mL

| COMPOUND | SPIKE ADDED (ug/kg wet) | LCS CONCENTRATION (ug/kg wet) | Q | LCS % REC. # | QC LIMITS REC. |
|------------------------|-------------------------|-------------------------------|---|--------------|----------------|
| 1,4-Dichlorobenzene | 500 | 399 | | 79.7 | 36 - 120 |
| 1,2-Dichlorobenzene | 500 | 397 | | 79.3 | 36 - 120 |
| Benzyl Alcohol | 500 | 421 | | 84.1 | 25 - 123 |
| Benzoic acid | 2300 | 2930 | | 128 | 10 - 160 |
| 2,4-Dimethylphenol | 1300 | 549 | | 42.2 | 10 - 120 |
| 1,2,4-Trichlorobenzene | 500 | 400 | | 79.9 | 35 - 120 |
| N-Nitrosodiphenylamine | 500 | 411 | | 82.2 | 27 - 120 |
| Pentachlorophenol | 1300 | 1560 | | 120 | 26 - 120 |

* Indicates values outside of QC limits

| COMPOUND | SPIKE ADDED (ug/kg wet) | LCSD CONCENTRATION (ug/kg wet) | Q | LCSD % REC. # | % RPD # | QC LIMITS | |
|------------------------|-------------------------|--------------------------------|---|---------------|---------|-----------|----------|
| | | | | | | RPD | REC. |
| 1,4-Dichlorobenzene | 500 | 406 | | 81.3 | 1.94 | 30 | 36 - 120 |
| 1,2-Dichlorobenzene | 500 | 408 | | 81.6 | 2.78 | 30 | 36 - 120 |
| Benzyl Alcohol | 500 | 436 | | 87.3 | 3.66 | 30 | 25 - 123 |
| Benzoic acid | 2300 | 3040 | | 132 | 3.64 | 30 | 10 - 160 |
| 2,4-Dimethylphenol | 1300 | 557 | | 42.9 | 1.51 | 30 | 10 - 120 |
| 1,2,4-Trichlorobenzene | 500 | 412 | | 82.3 | 2.95 | 30 | 35 - 120 |
| N-Nitrosodiphenylamine | 500 | 435 | | 87.1 | 5.76 | 30 | 27 - 120 |
| Pentachlorophenol | 1300 | 1550 | | 119 | 0.775 | 30 | 26 - 120 |

* Indicates values outside of QC limits

Data File: \\target\share\chem3\nt10.1\20230322.16\SIH.6\N100322307S.D

Date: 22-MAR-2023 20:54

Client ID:

Sample Info: BLC0442-BS1

Volume Injected (uL): 1.0

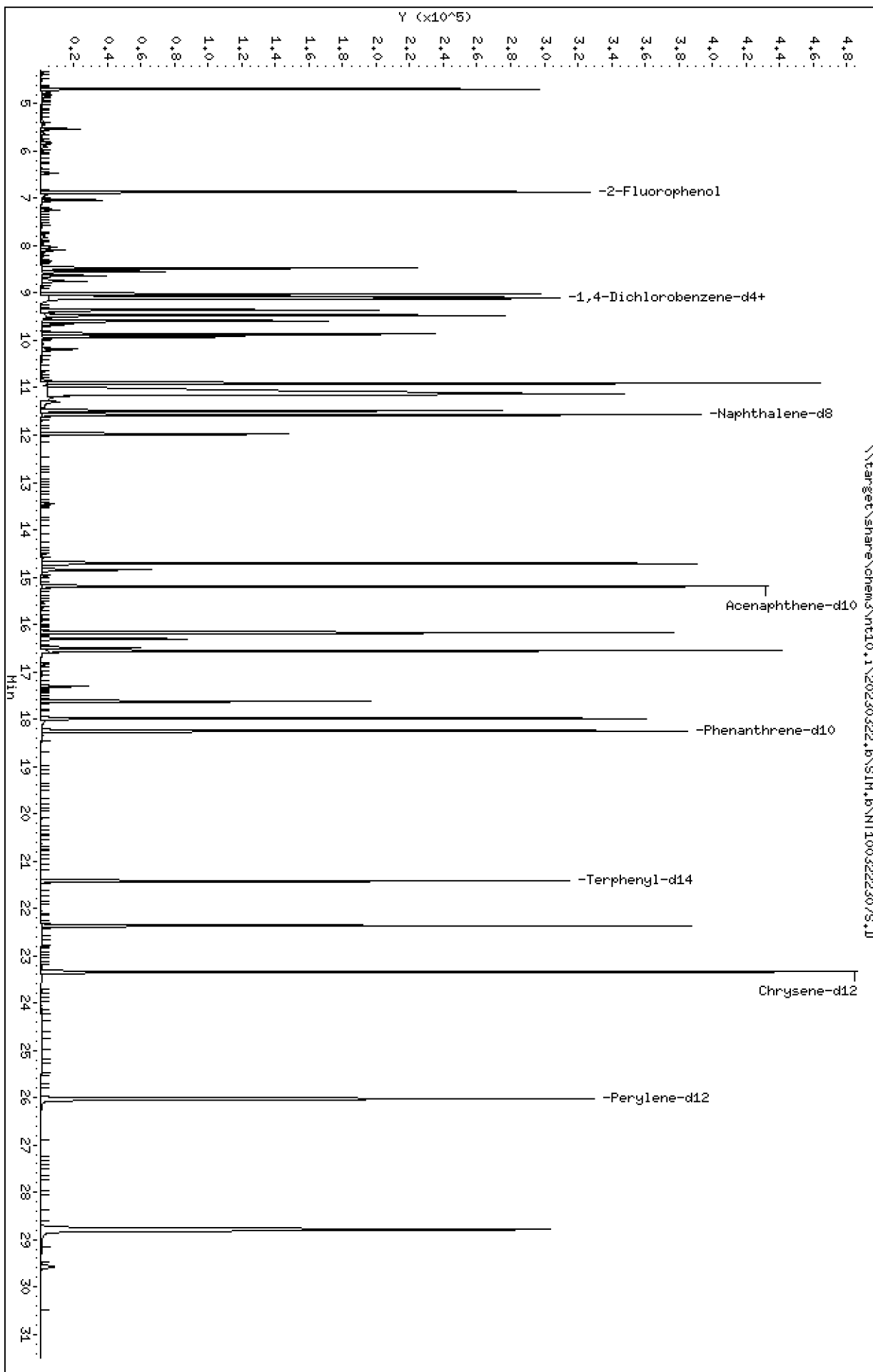
Column phase: ZB-5msi

Instrument: nt10.1

Operator: JGR

Column diameter: 0.25

Page 1



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

Volume Injected (uL): 1.0

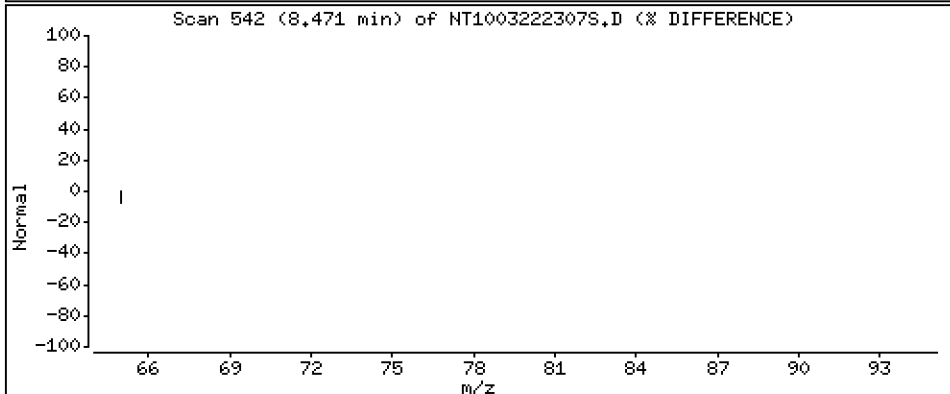
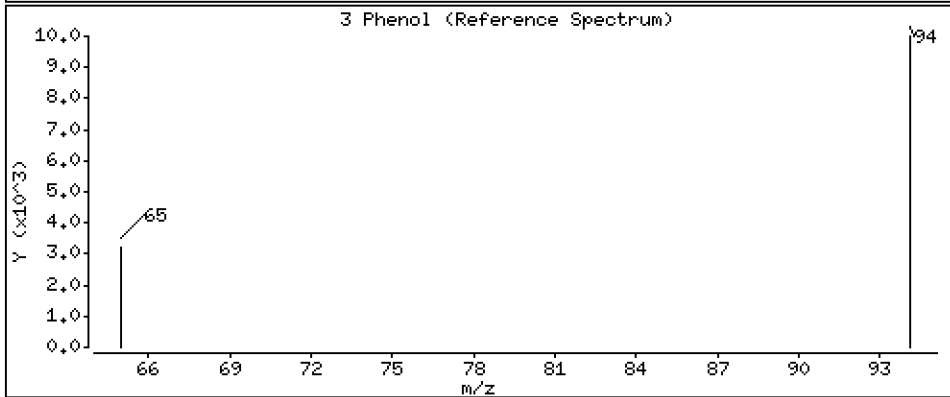
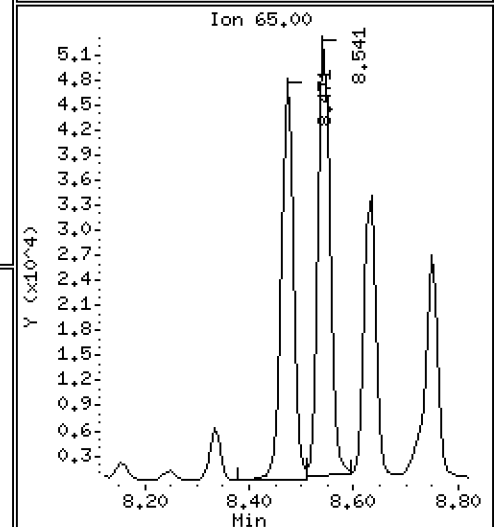
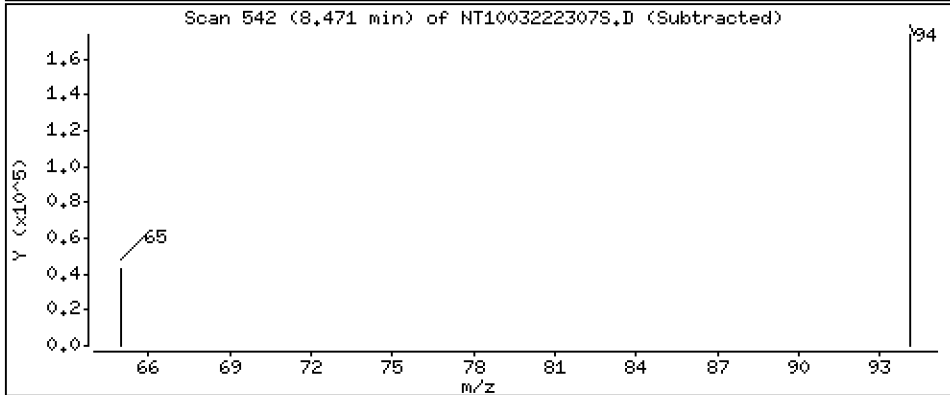
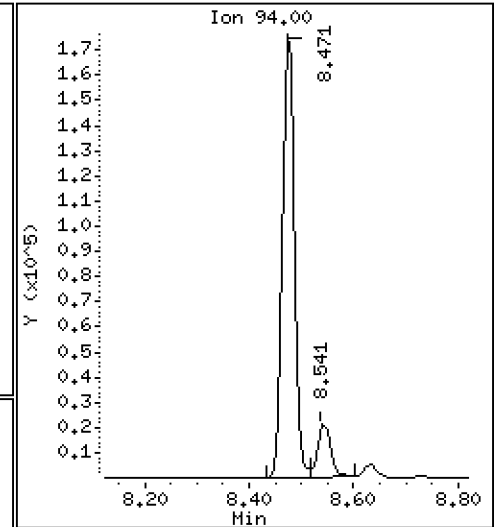
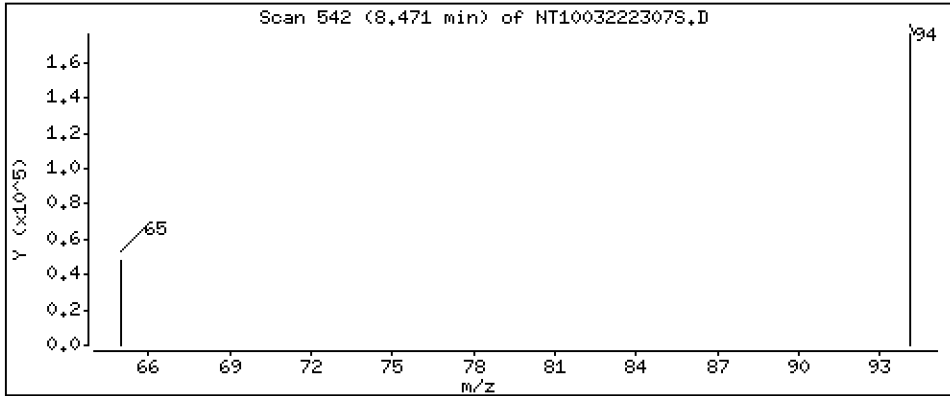
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 3,648 ug/L



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

Volume Injected (uL): 1.0

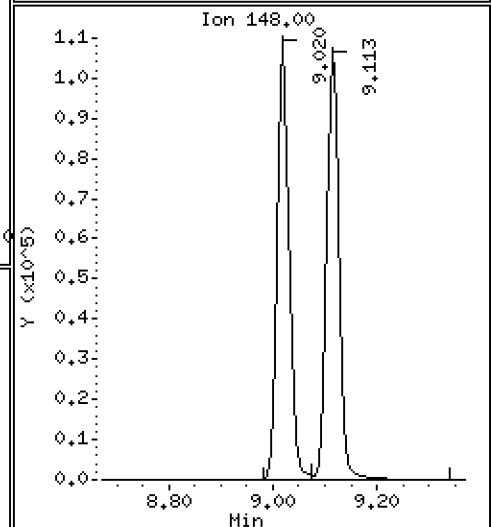
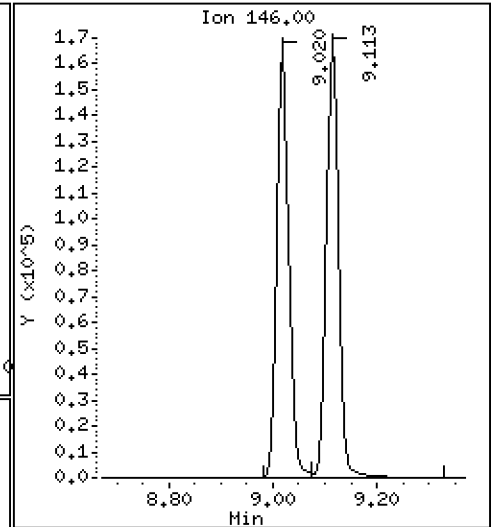
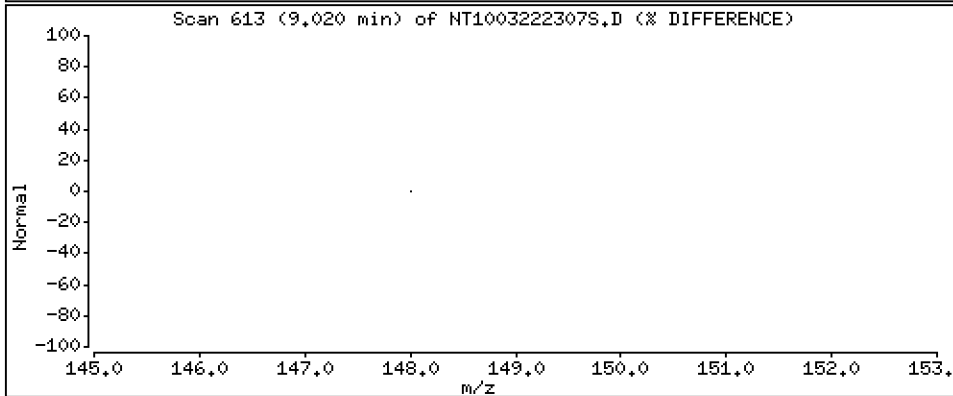
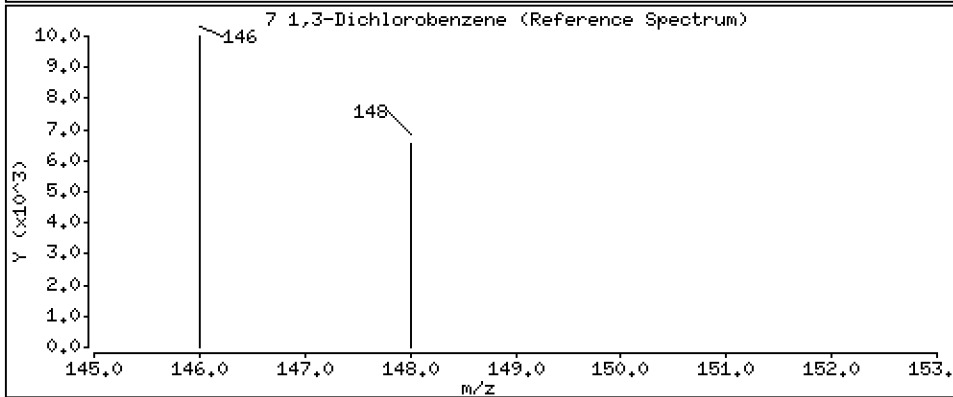
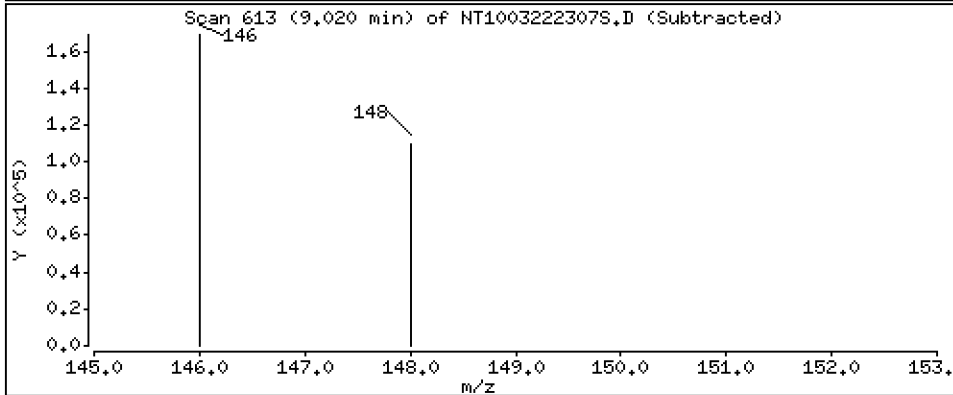
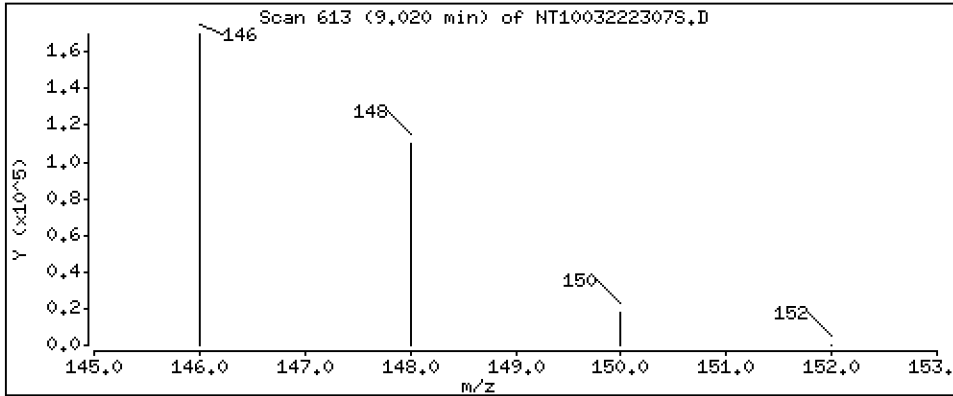
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

7 1,3-Dichlorobenzene

Concentration: 3,834 ug/L



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

Volume Injected (uL): 1.0

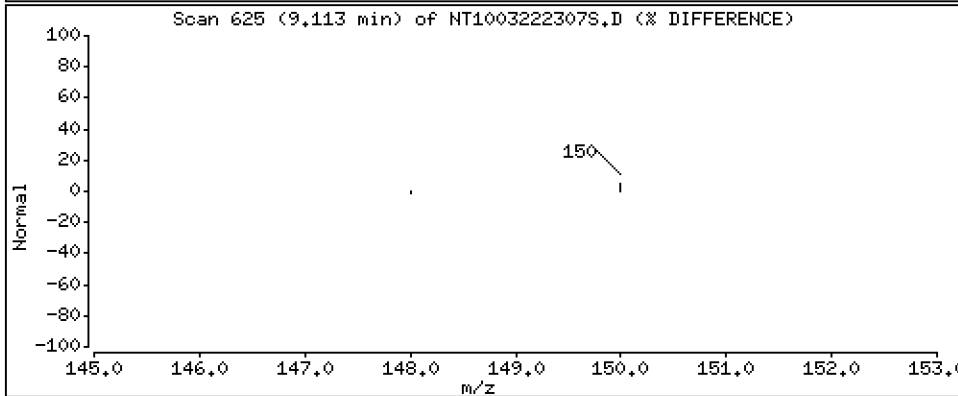
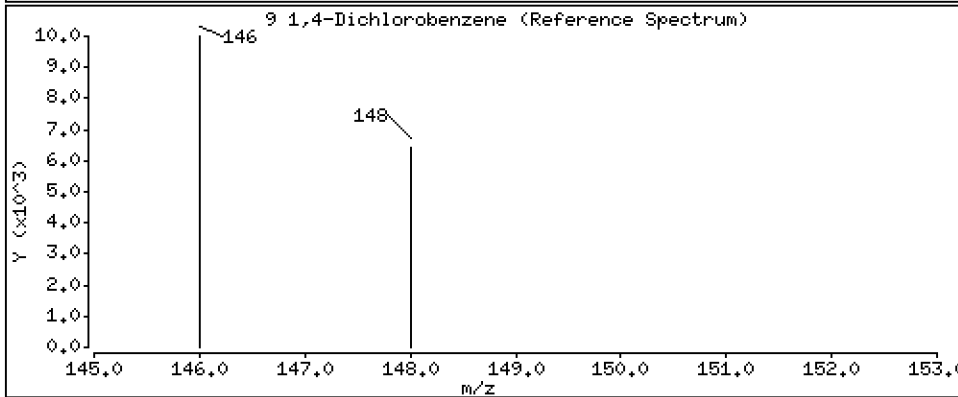
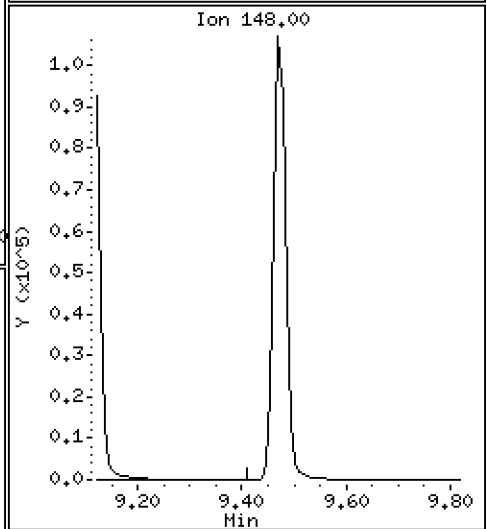
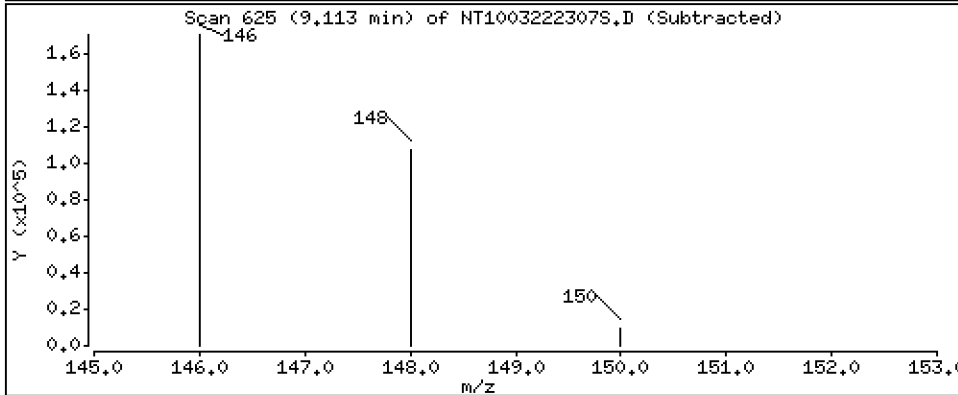
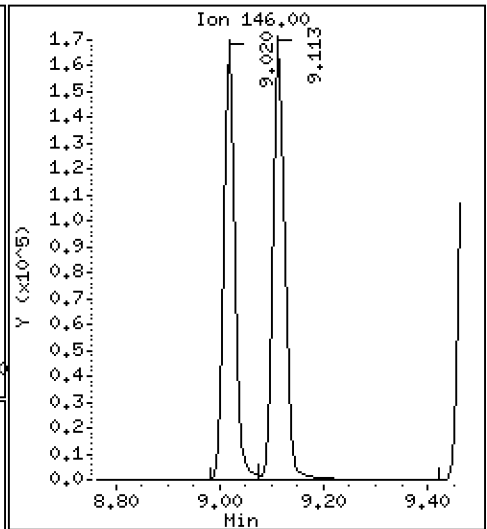
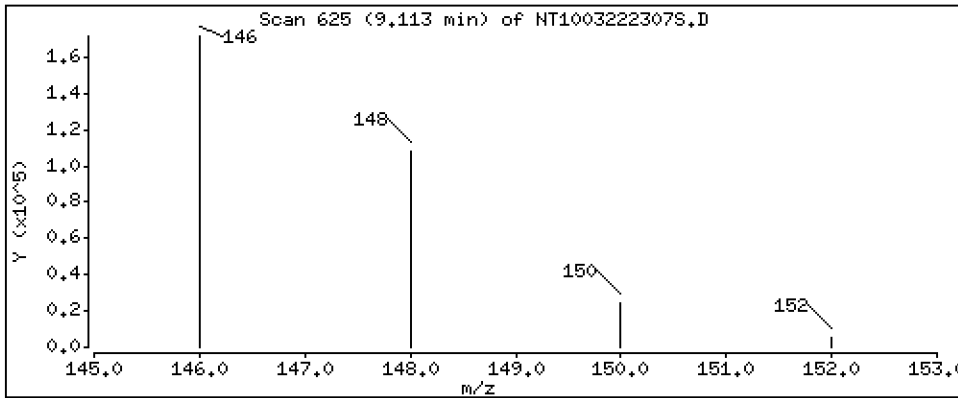
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

9 1,4-Dichlorobenzene

Concentration: 3.986 ug/L



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

Volume Injected (uL): 1.0

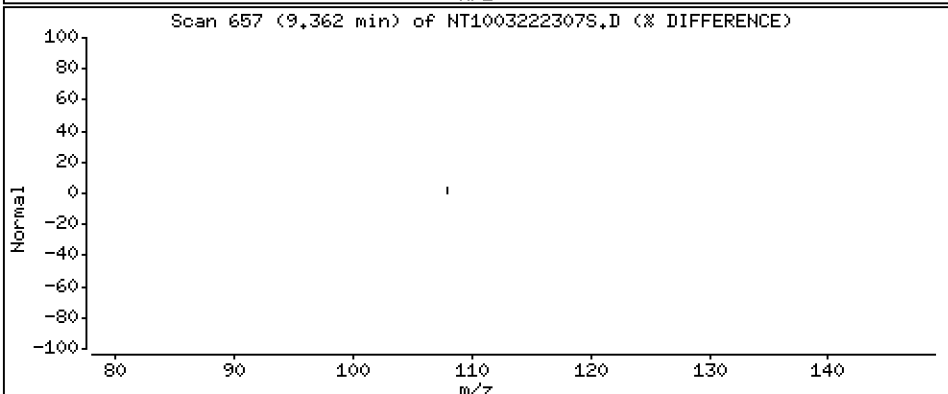
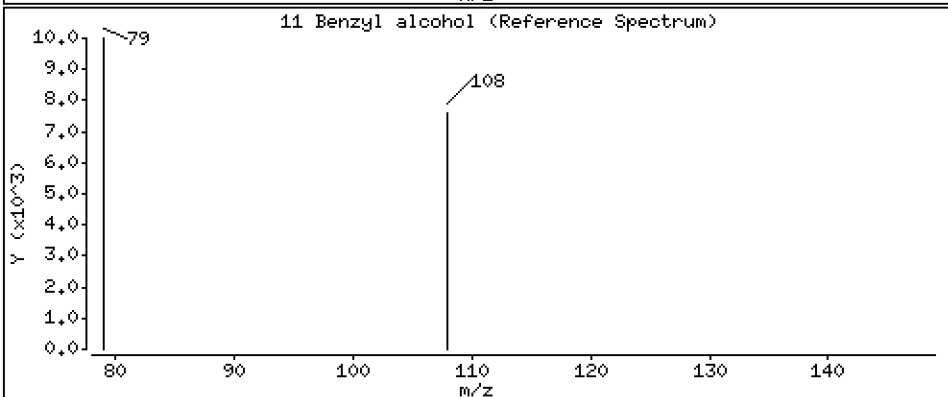
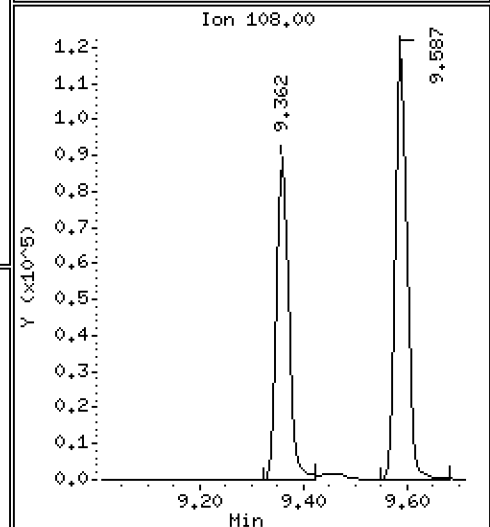
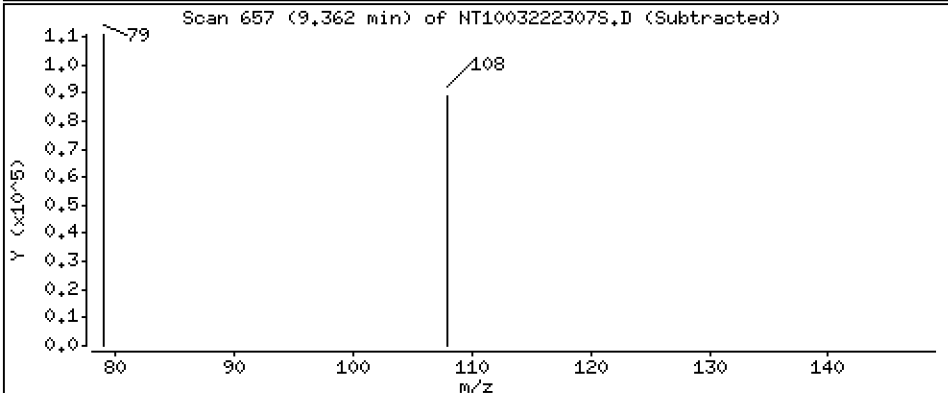
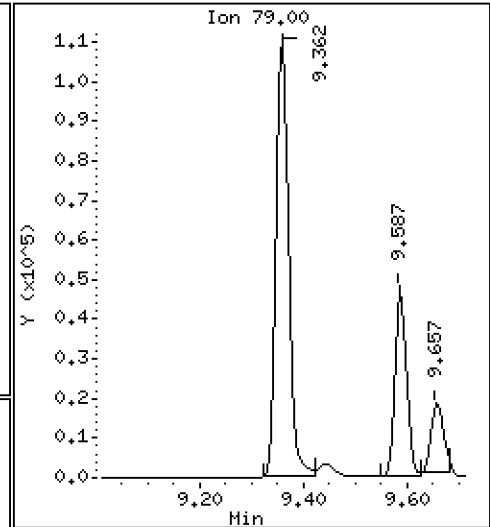
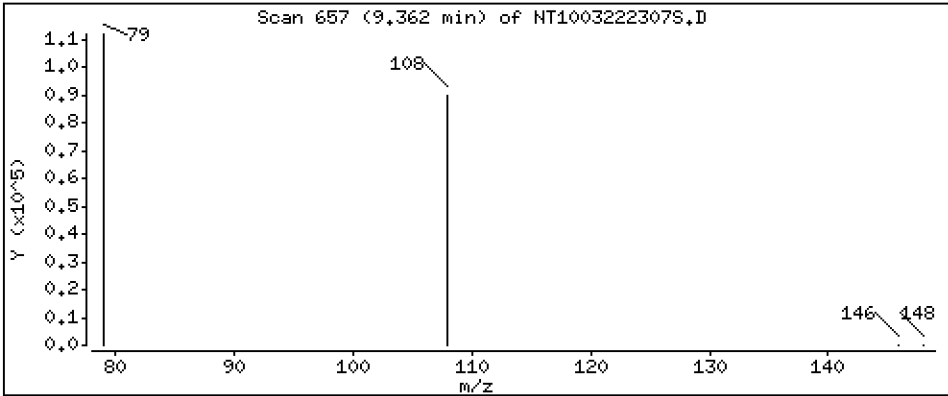
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 4.207 ug/L



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

Volume Injected (uL): 1.0

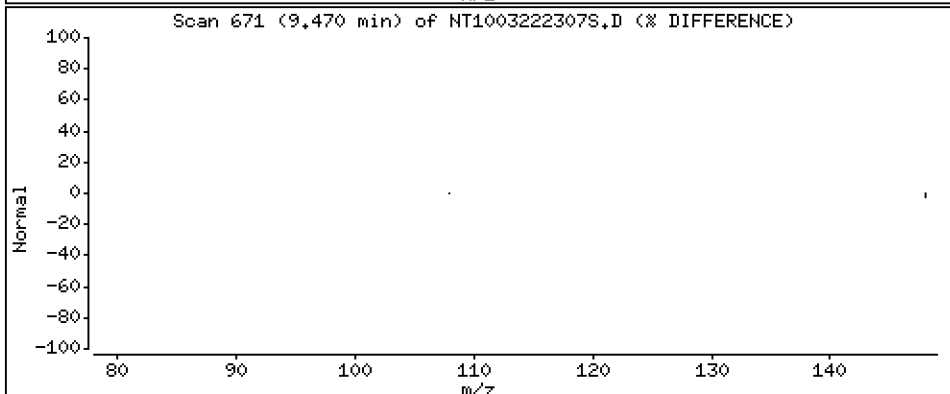
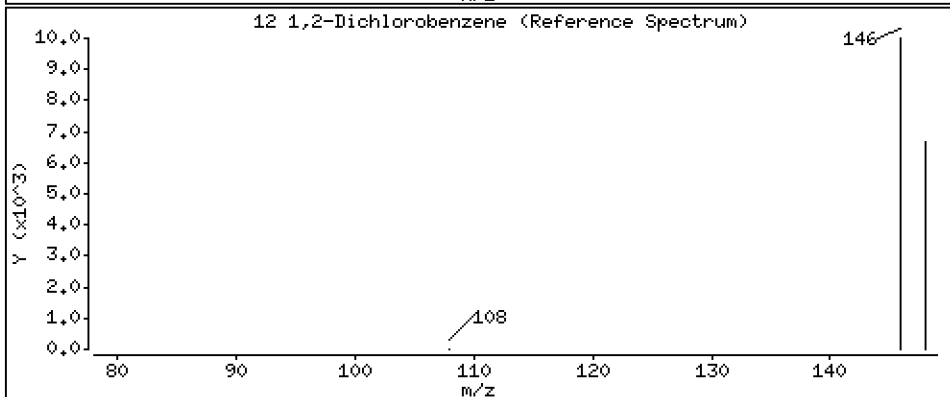
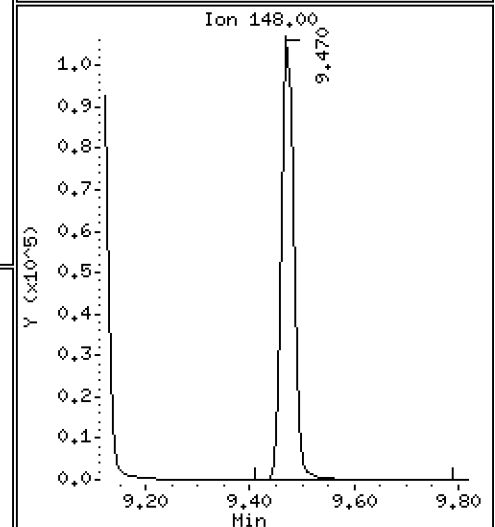
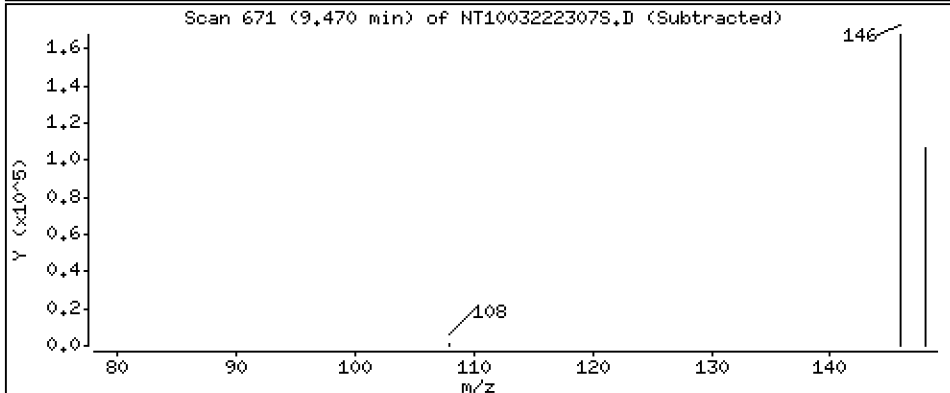
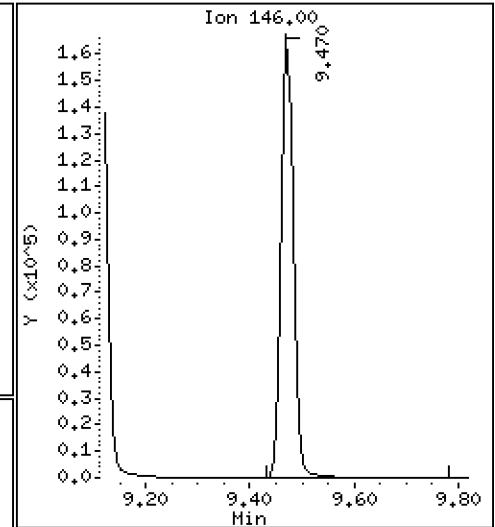
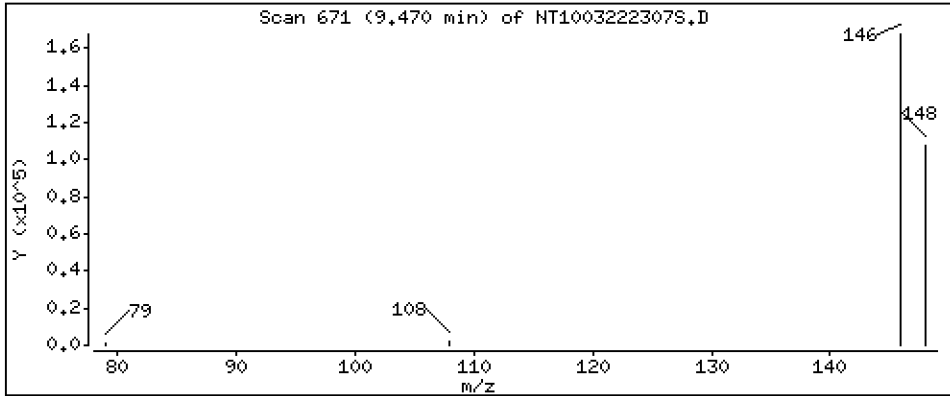
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

12 1,2-Dichlorobenzene

Concentration: 3.967 ug/L



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

Volume Injected (uL): 1.0

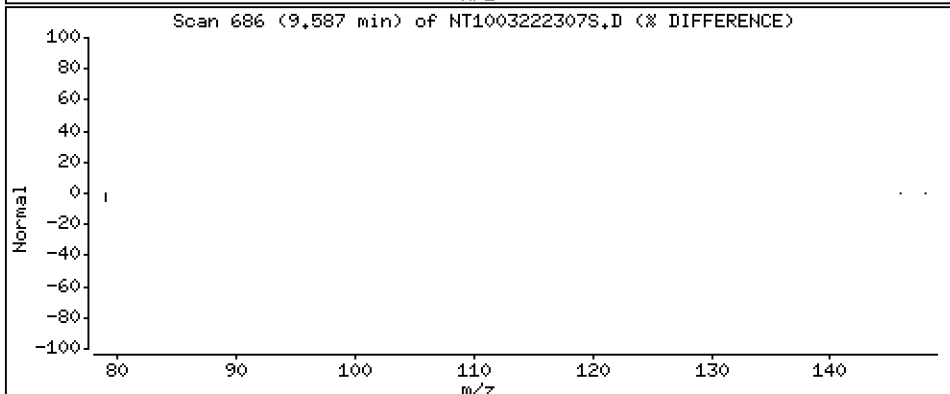
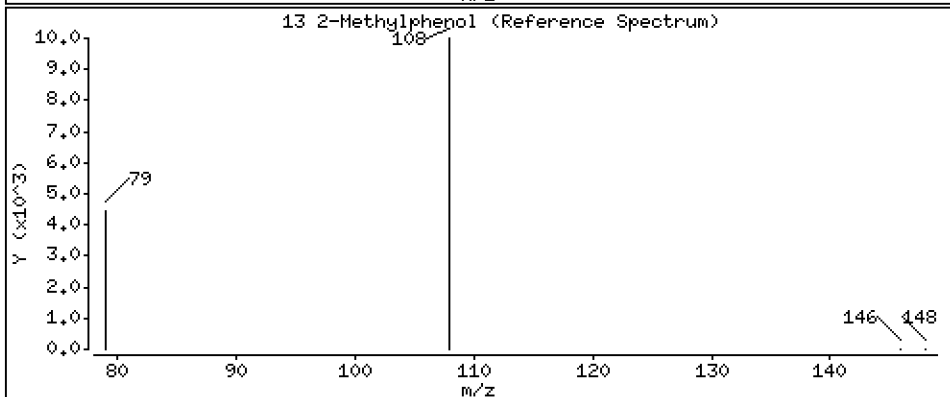
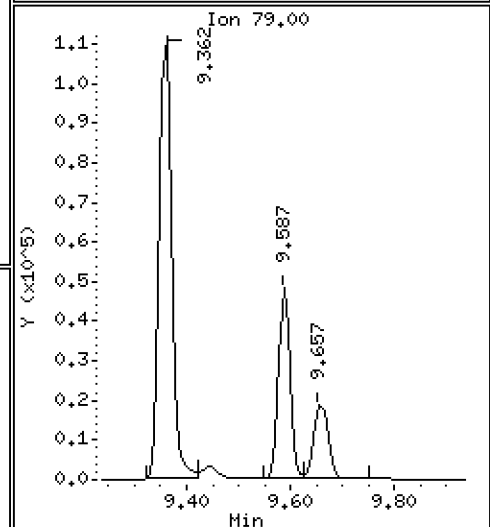
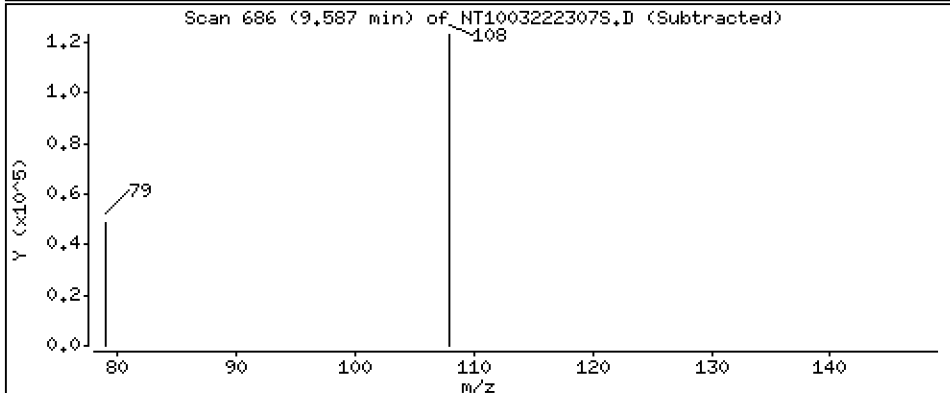
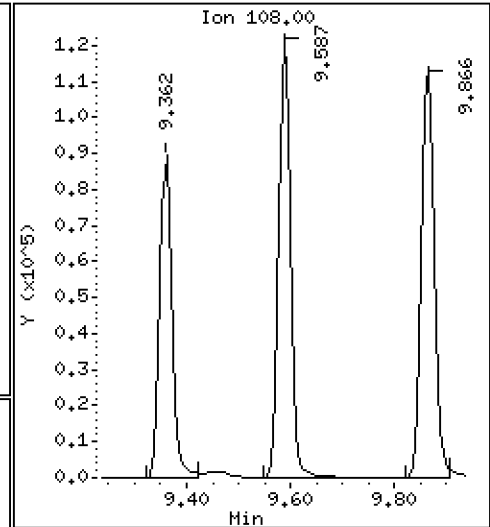
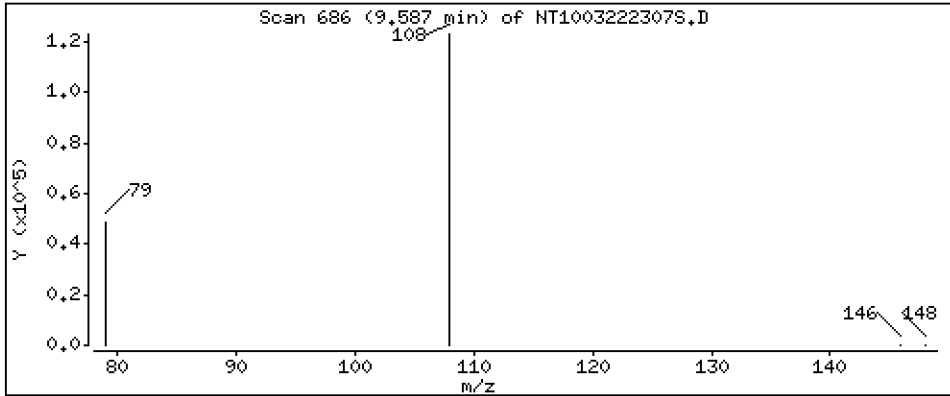
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

13 2-Methylphenol

Concentration: 3,592 ug/L



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

Volume Injected (uL): 1.0

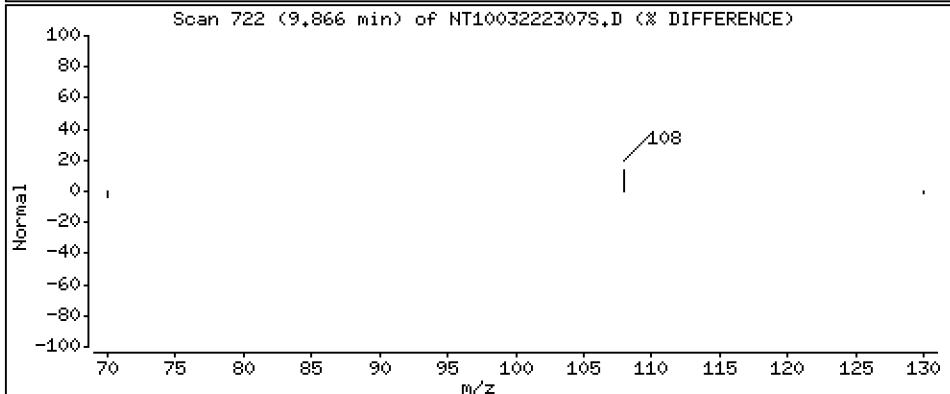
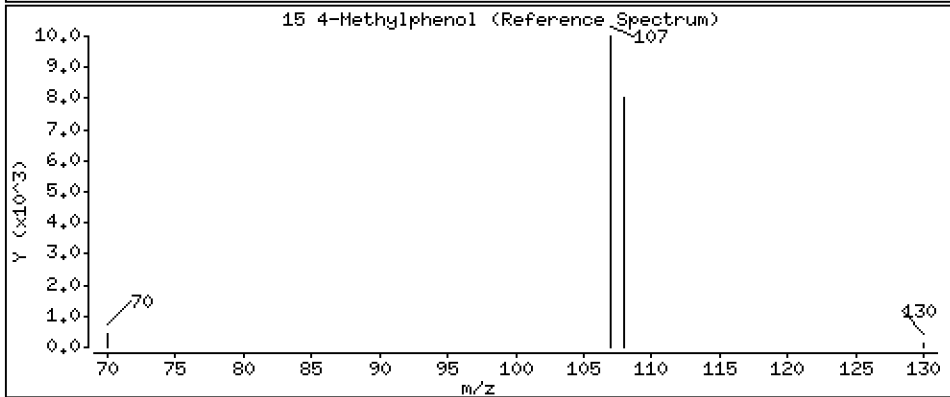
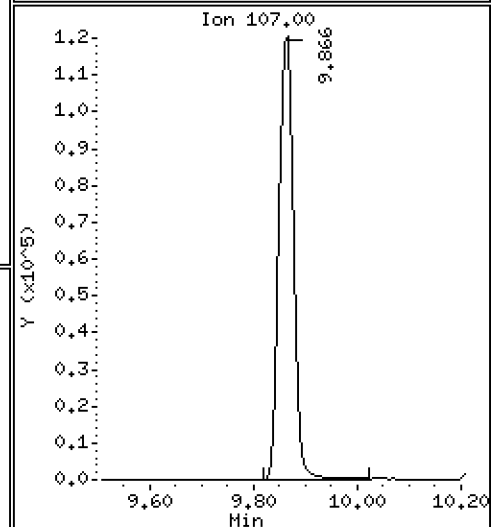
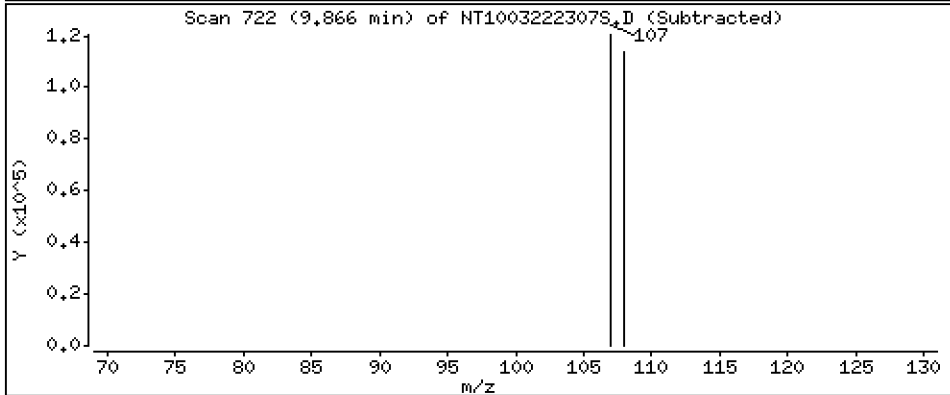
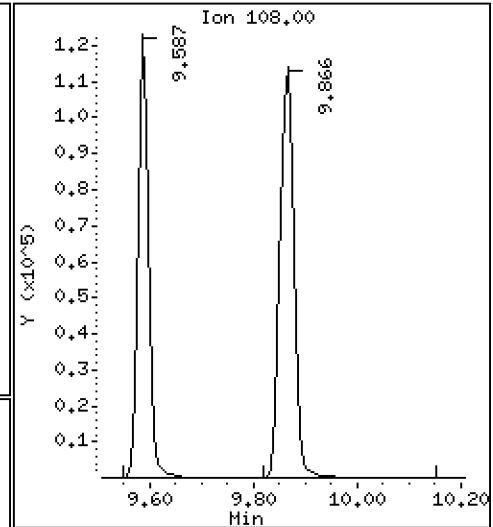
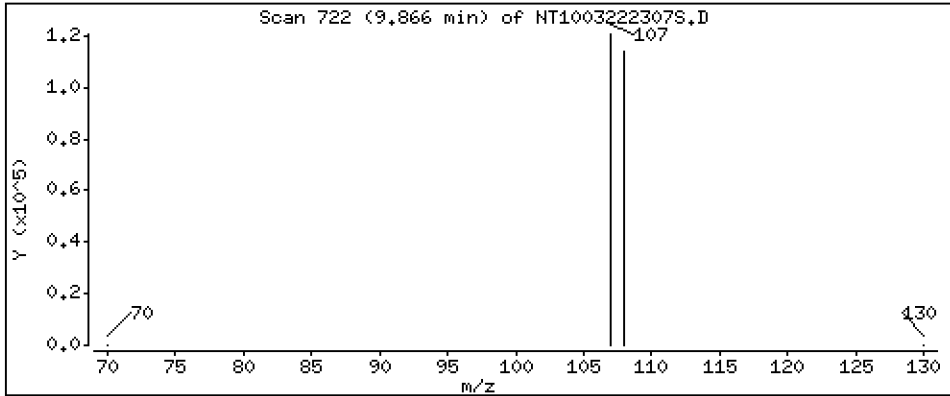
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 4.004 ug/L



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

Volume Injected (uL): 1.0

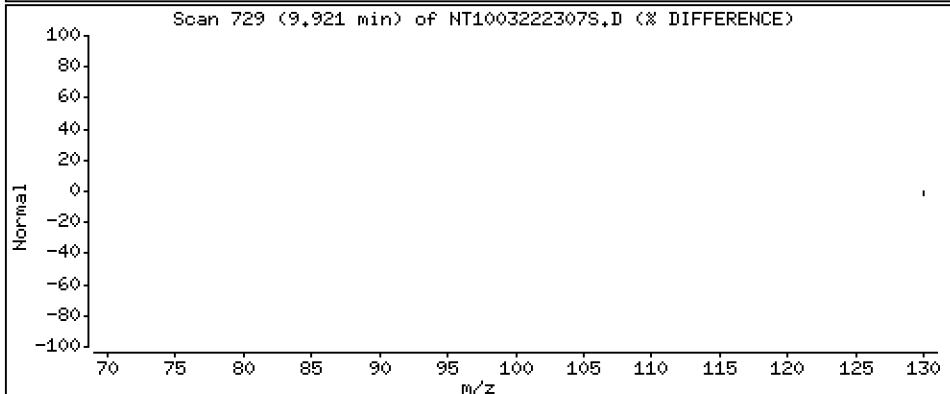
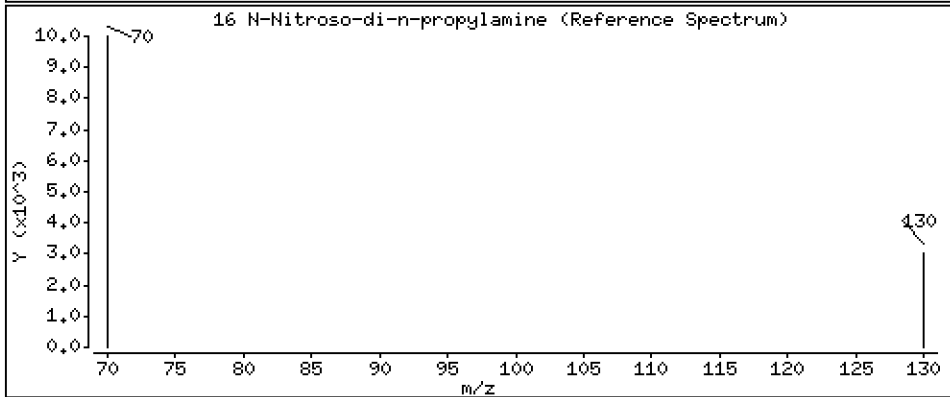
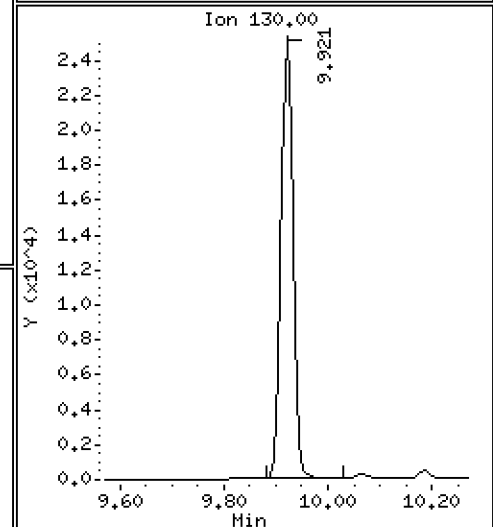
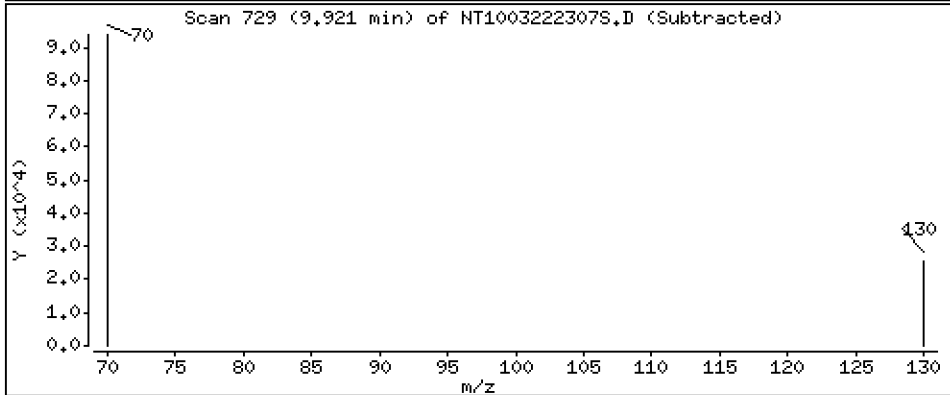
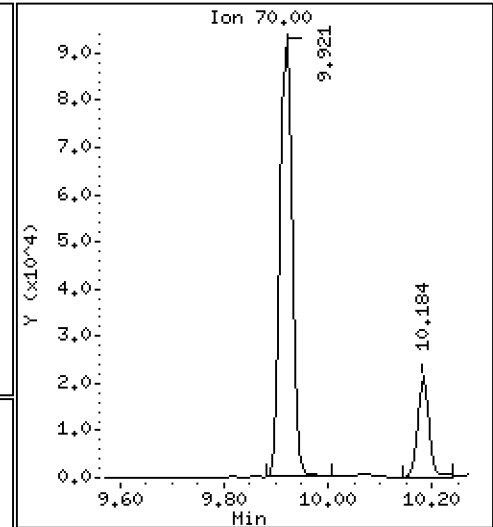
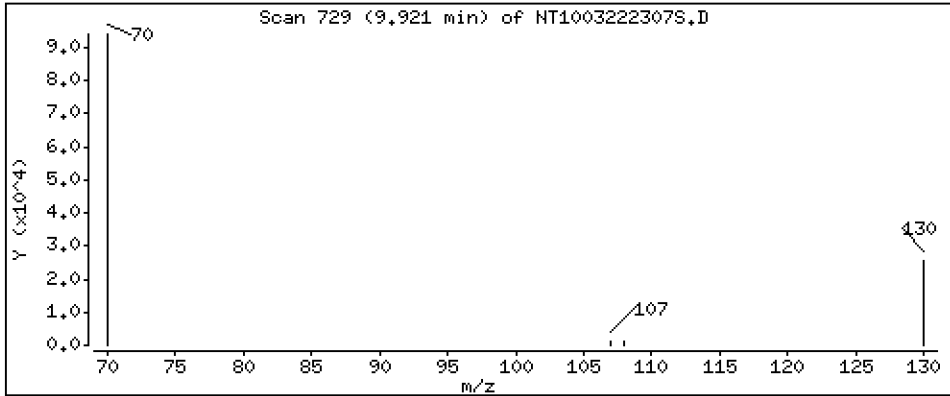
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

16 N-Nitroso-di-n-propylamine

Concentration: 3,866 ug/L



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

Volume Injected (uL): 1.0

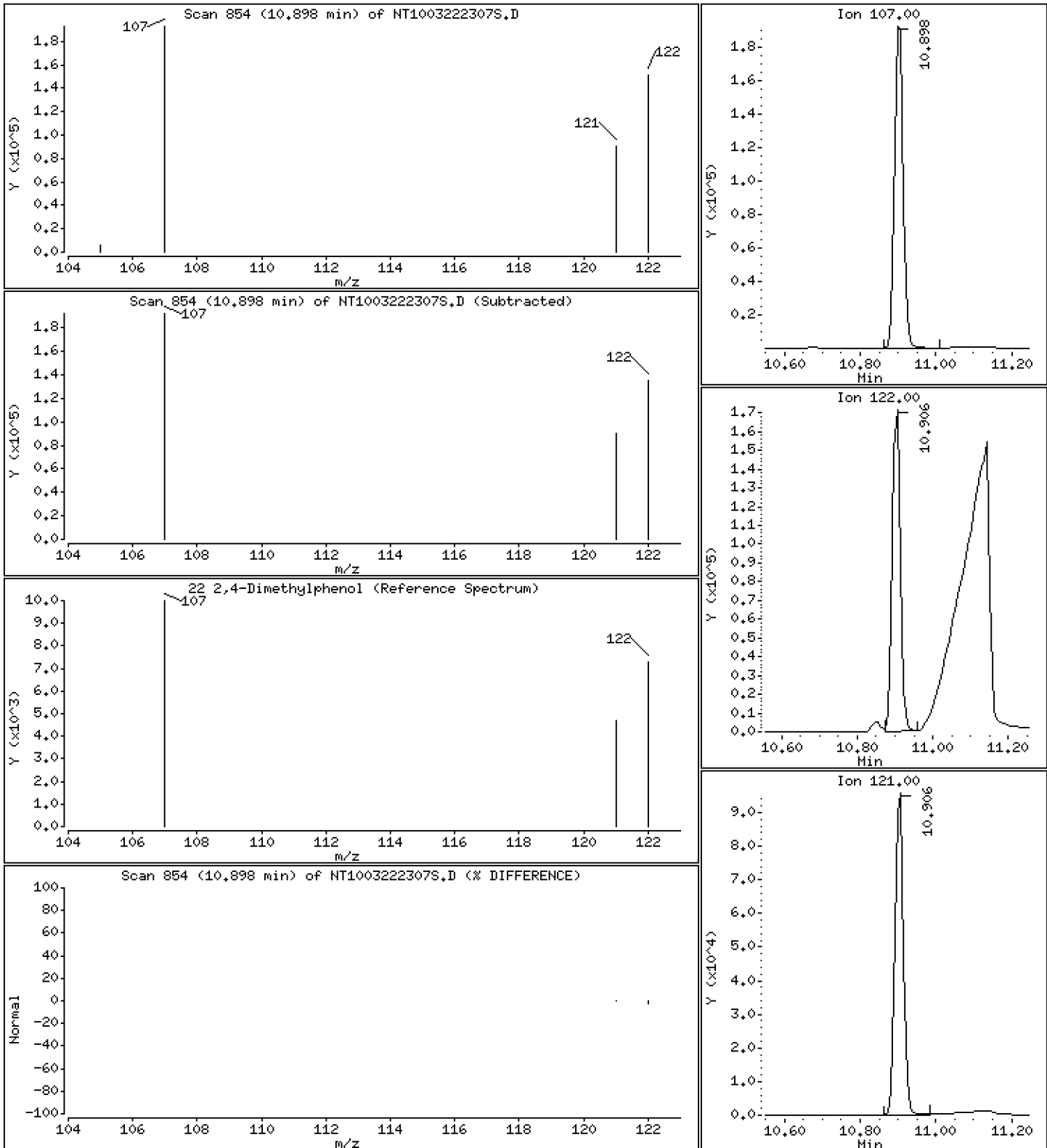
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

22 2,4-Dimethylphenol

Concentration: 5,489 ug/L



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

Volume Injected (uL): 1.0

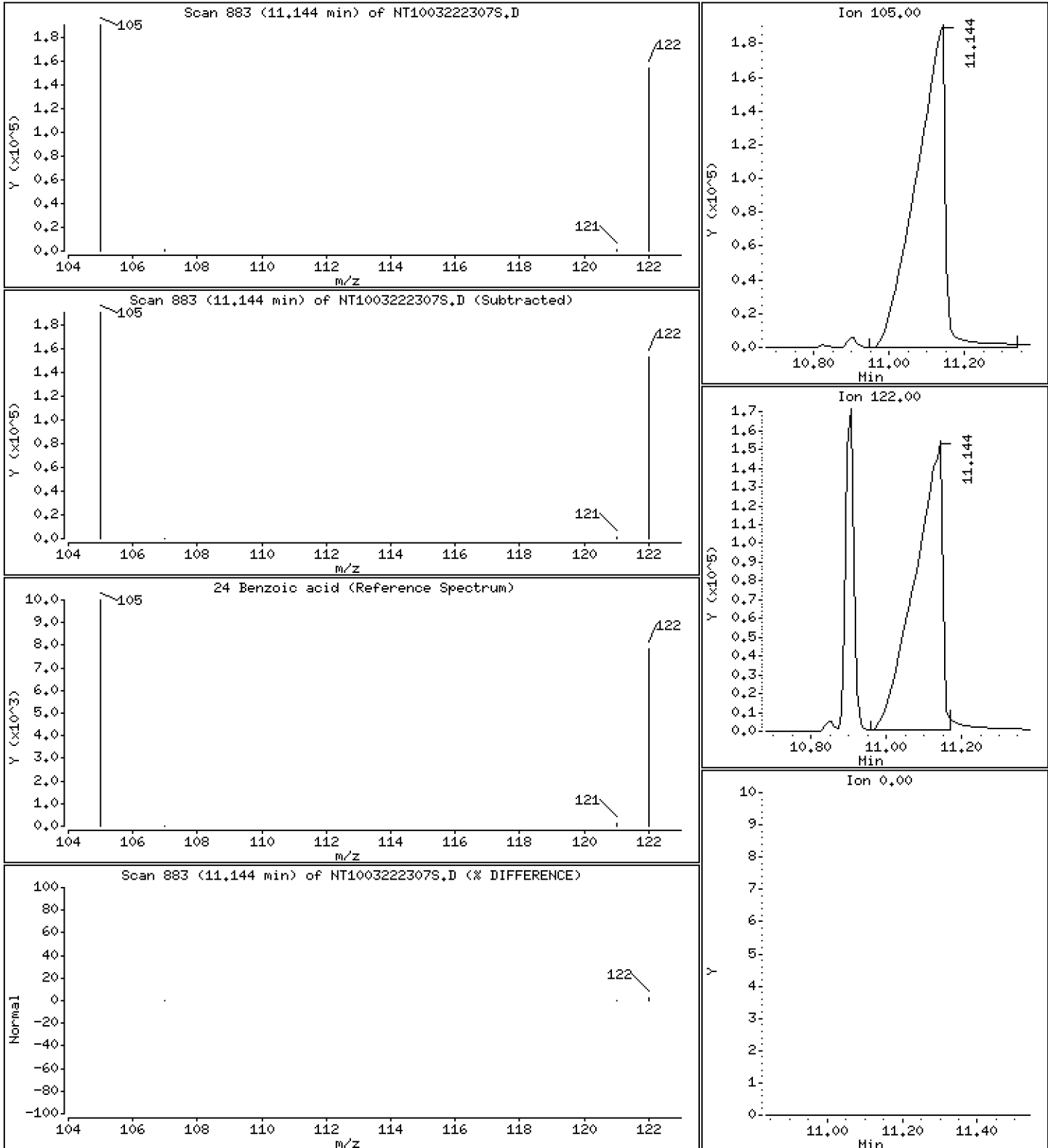
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

24 Benzoic acid

Concentration: 29,34 ug/L



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

Volume Injected (uL): 1.0

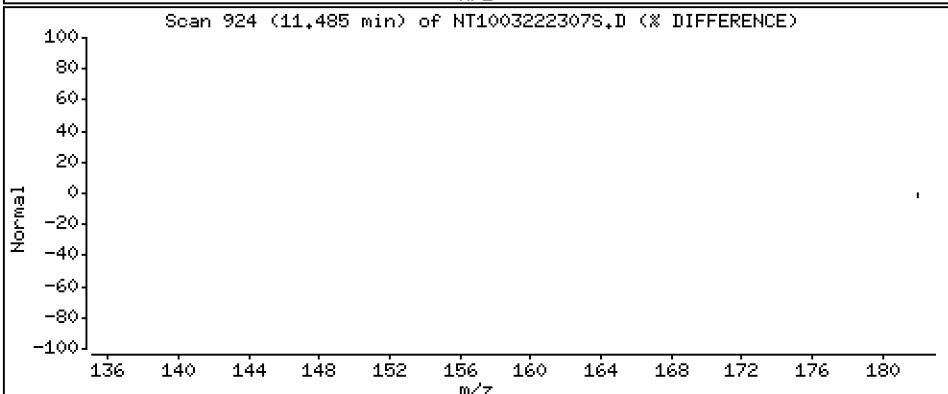
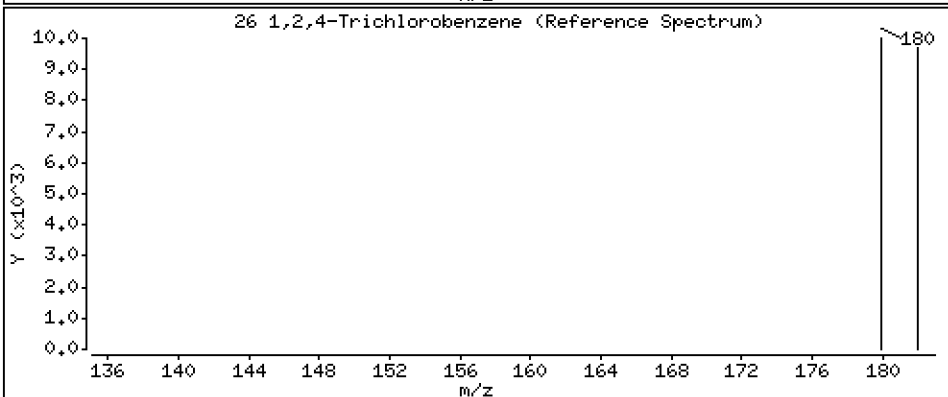
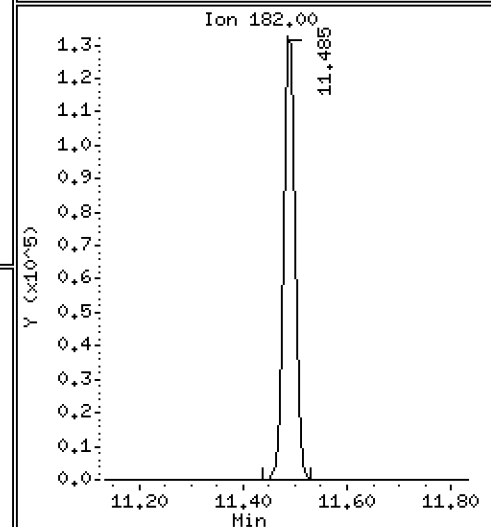
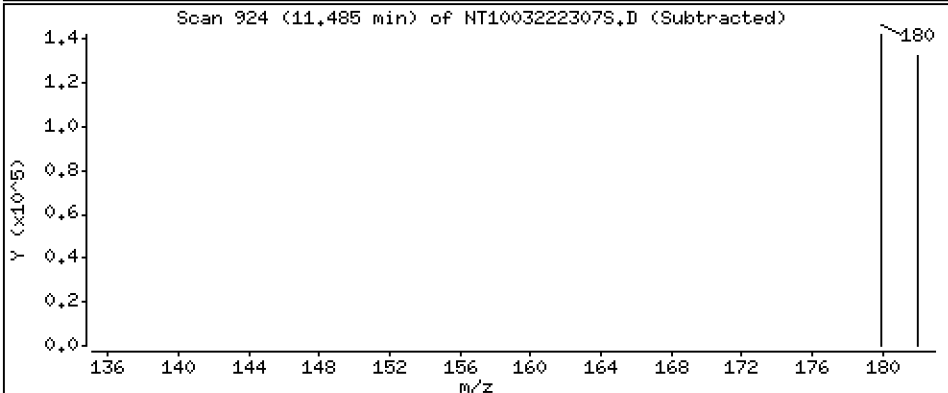
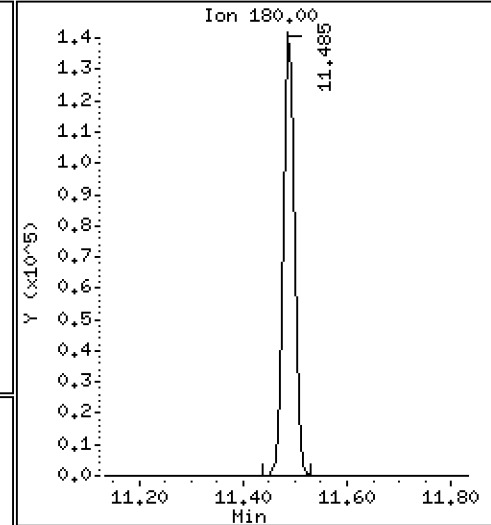
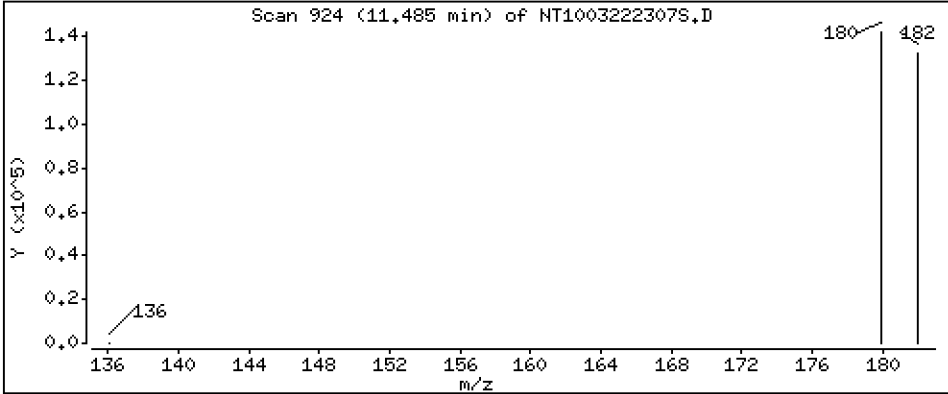
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

26 1,2,4-Trichlorobenzene

Concentration: 3.996 ug/L



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

Volume Injected (uL): 1.0

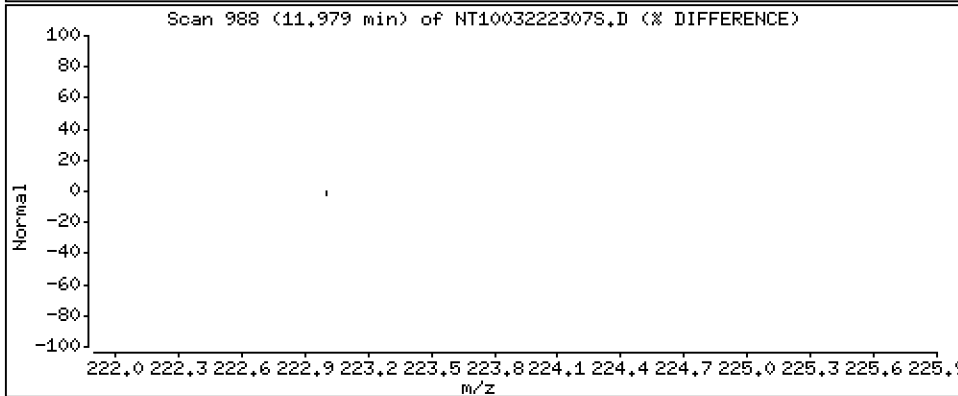
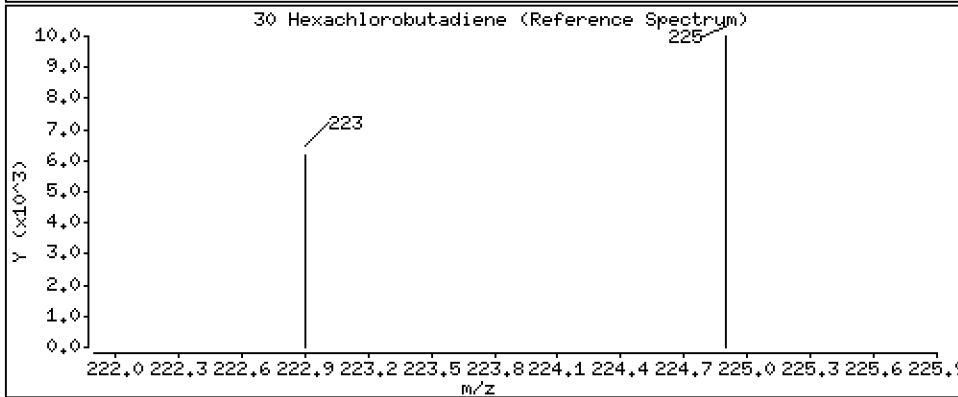
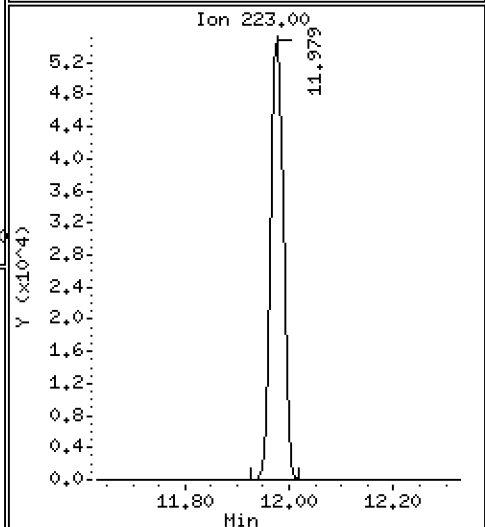
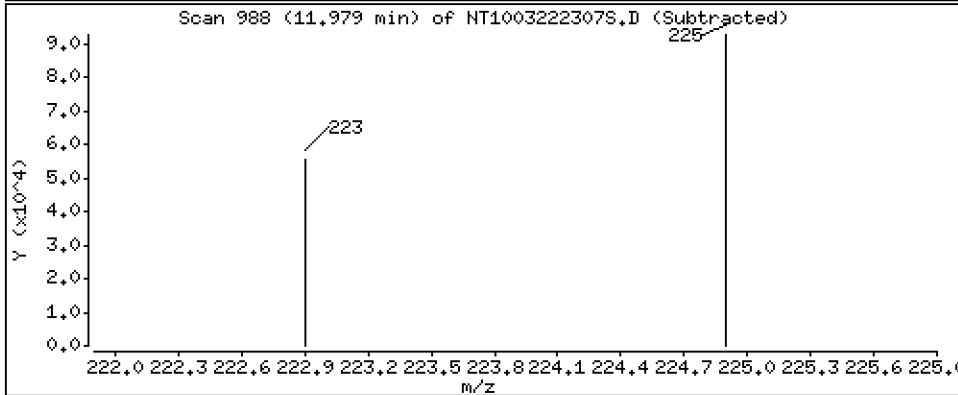
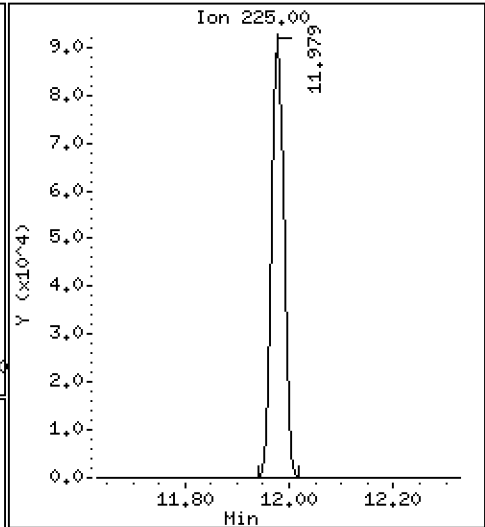
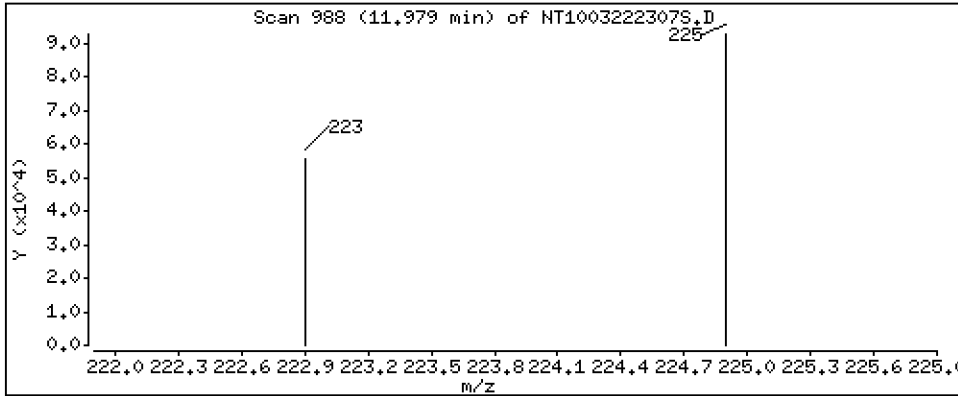
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 4,209 ug/L



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

Volume Injected (uL): 1.0

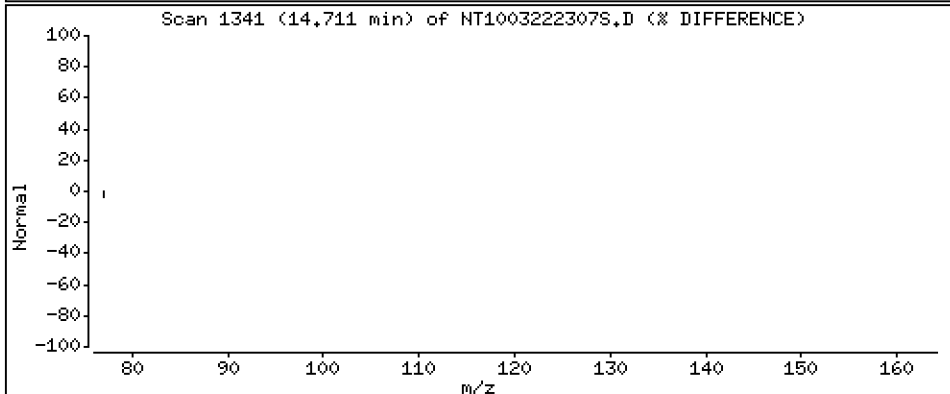
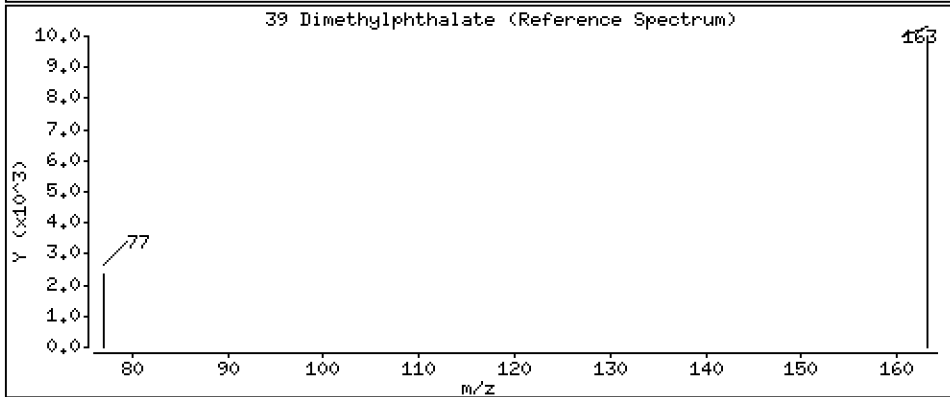
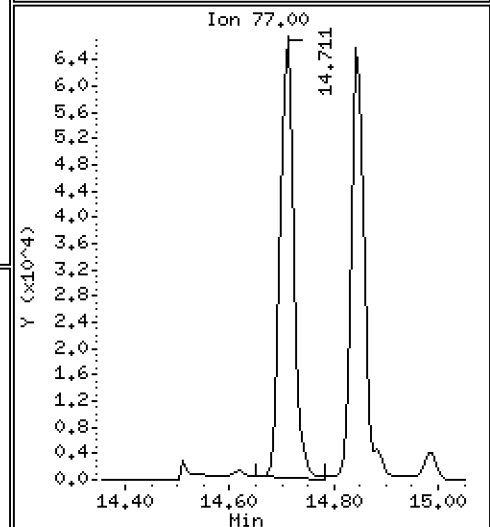
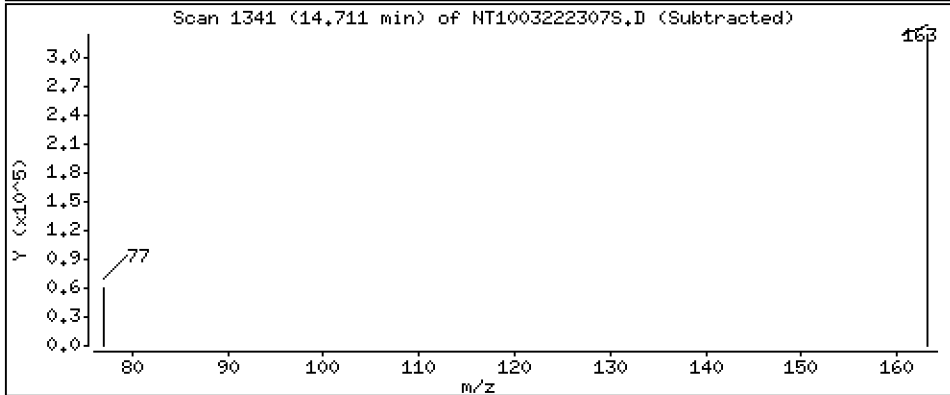
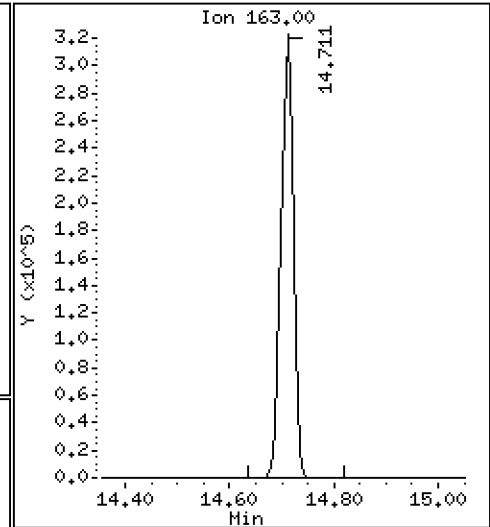
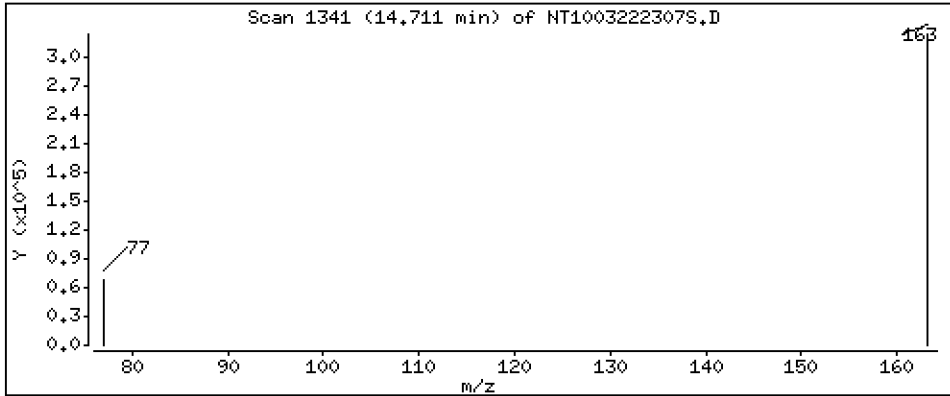
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 5,100 ug/L



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

Volume Injected (uL): 1.0

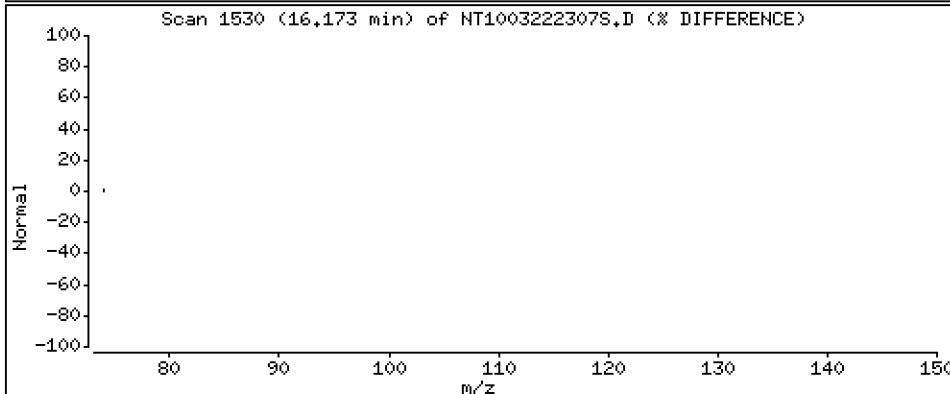
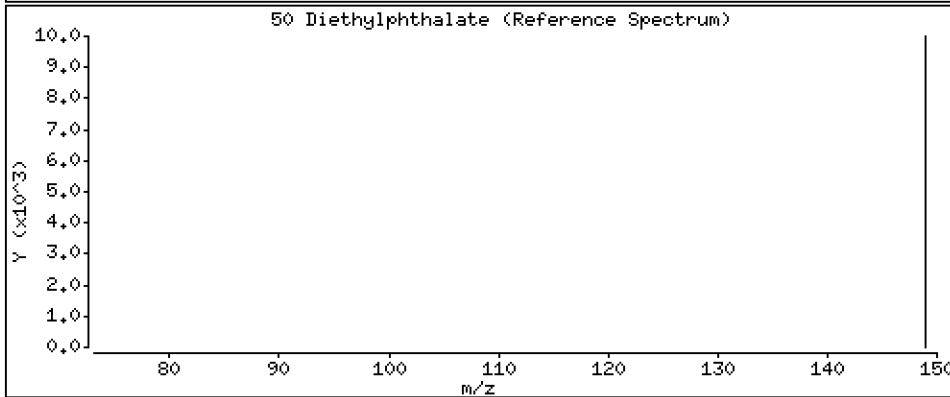
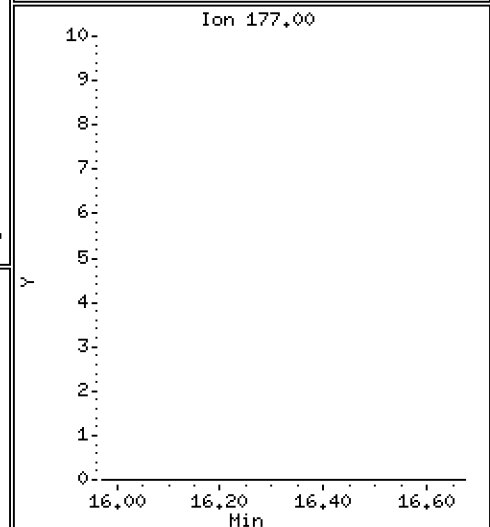
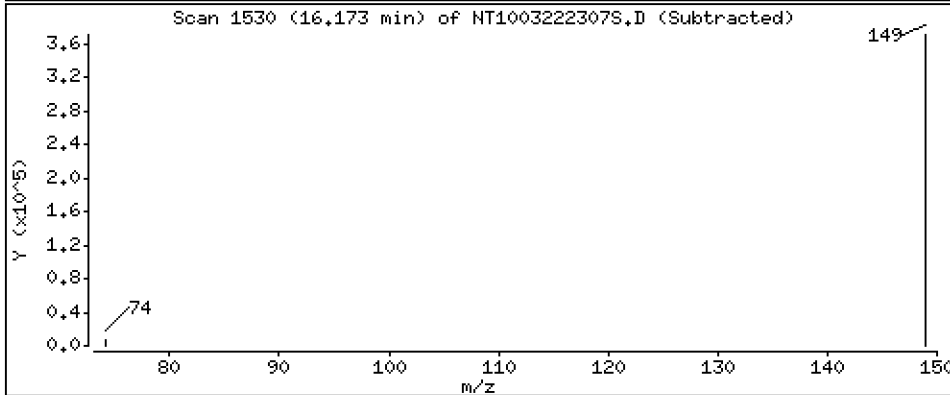
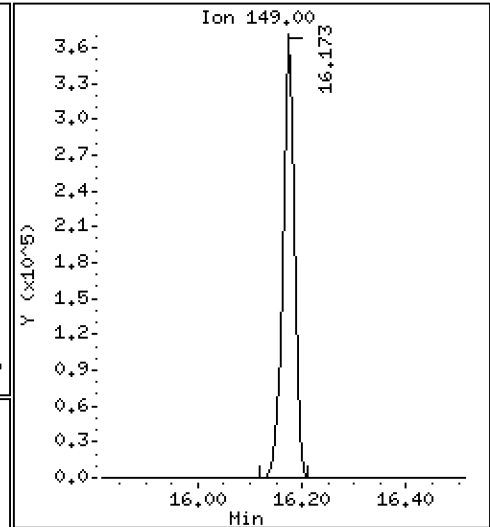
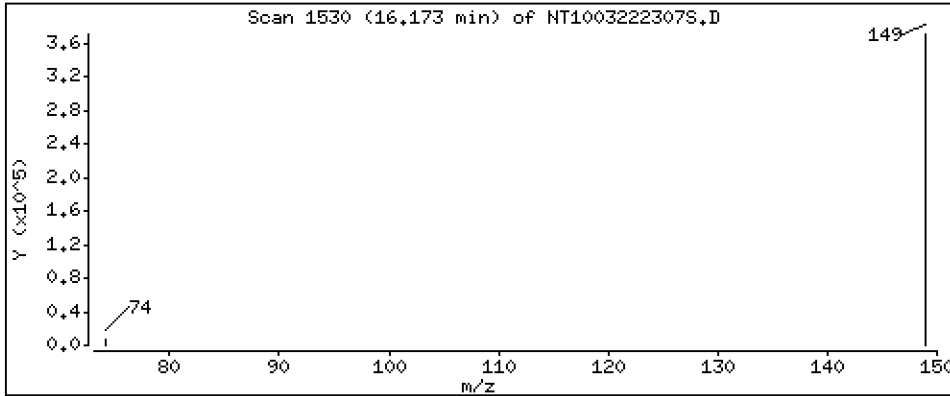
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 5,511 ug/L



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

Volume Injected (uL): 1.0

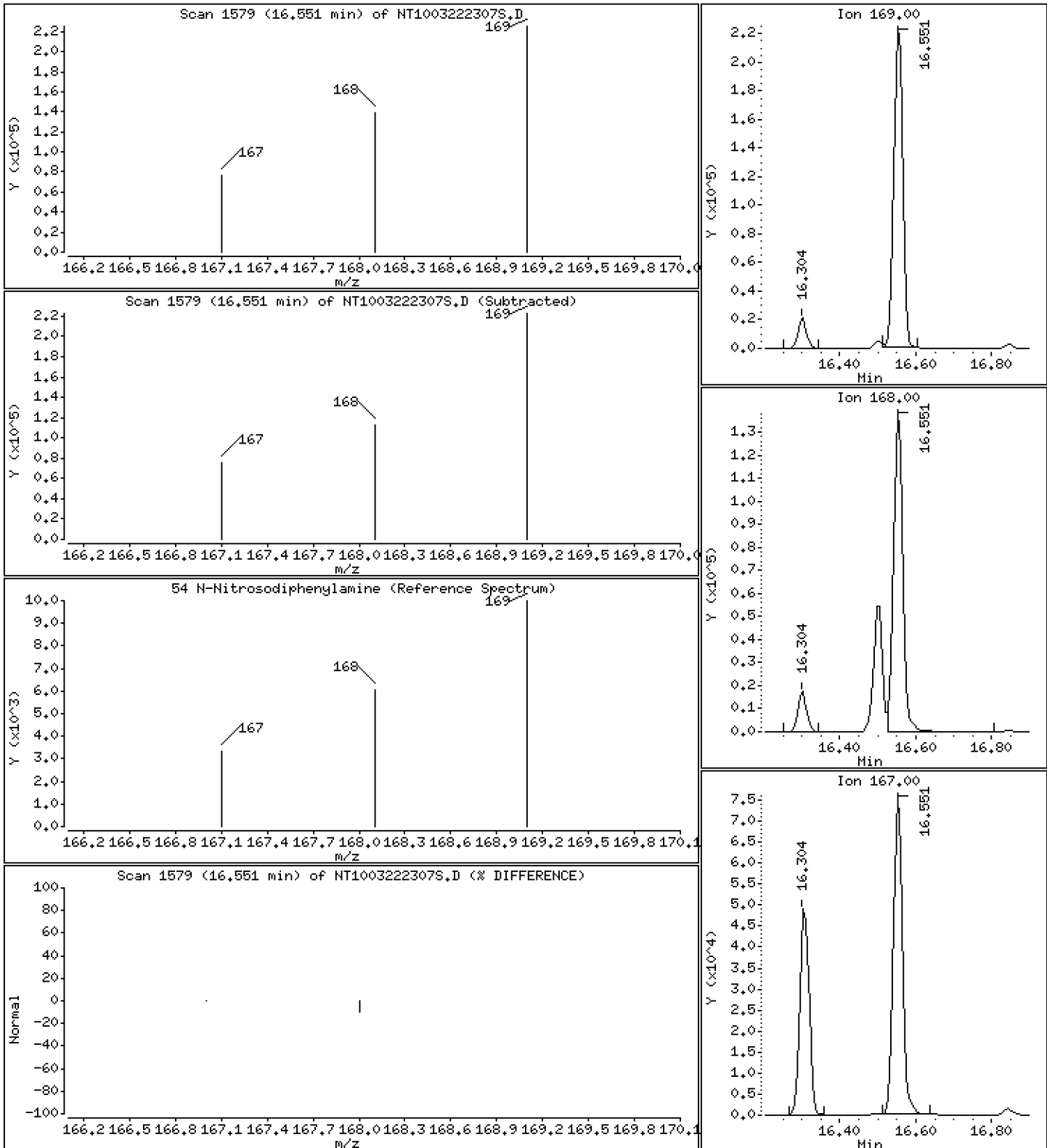
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

54 N-Nitrosodiphenylamine

Concentration: 4.109 ug/L



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

Volume Injected (uL): 1.0

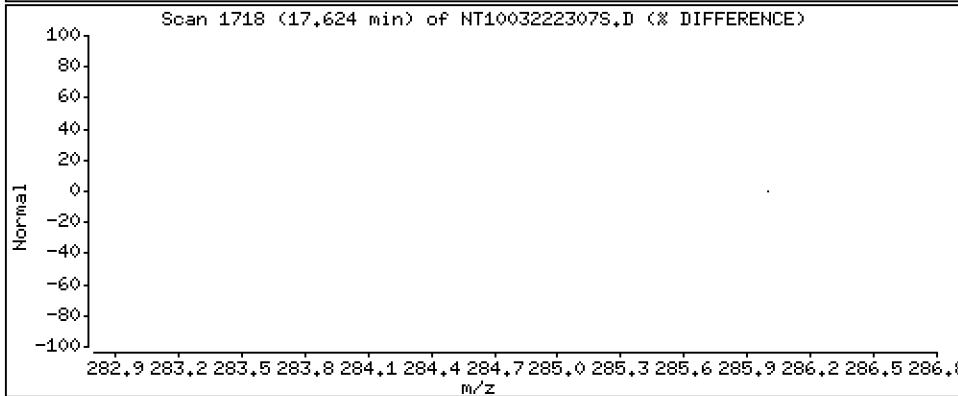
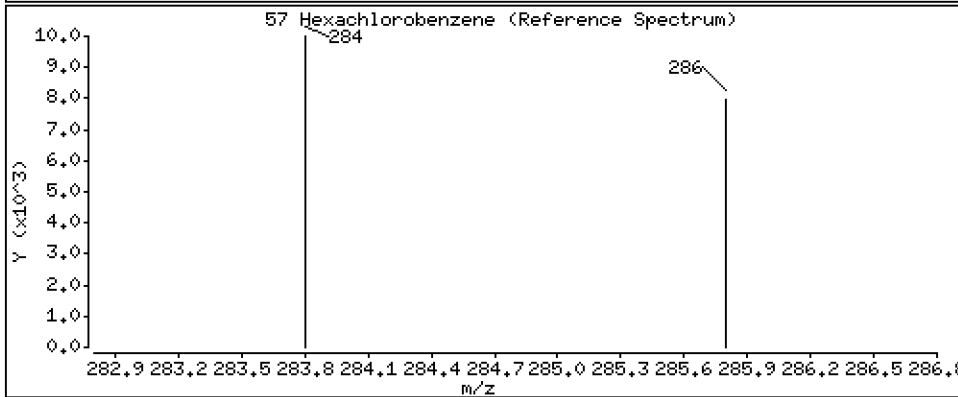
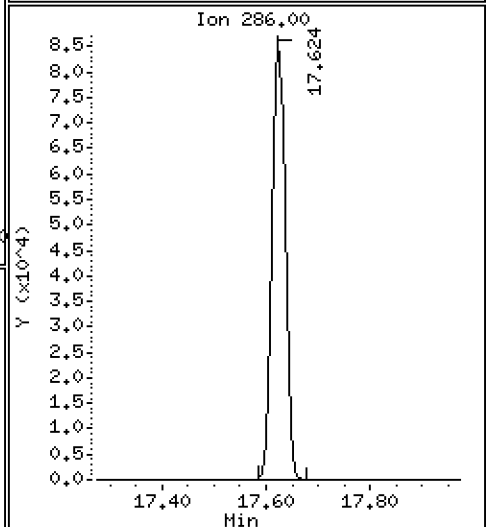
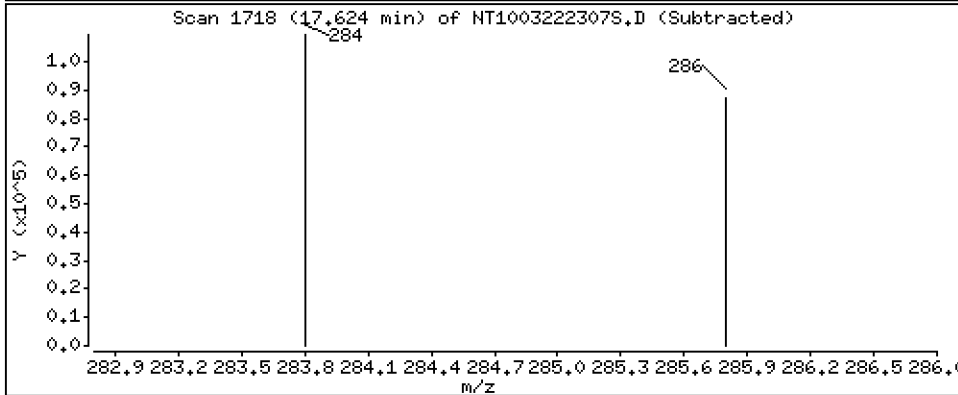
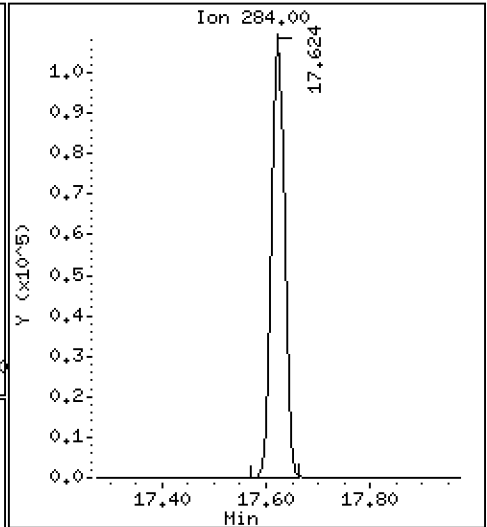
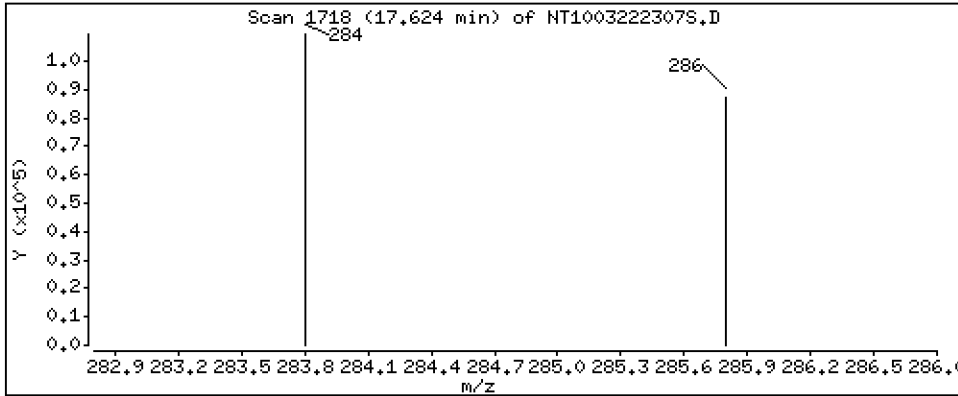
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

57 Hexachlorobenzene

Concentration: 4,712 ug/L



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

Volume Injected (uL): 1.0

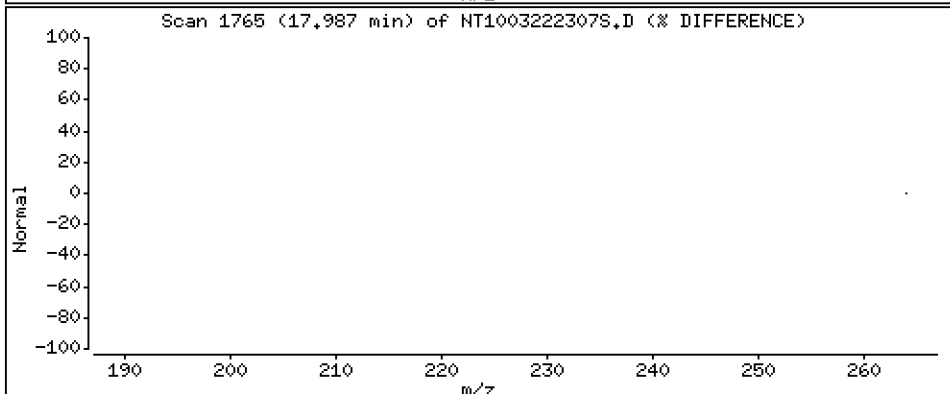
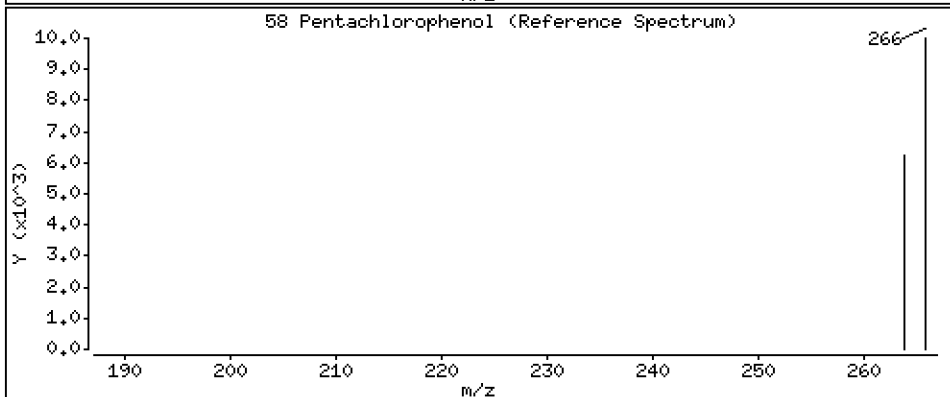
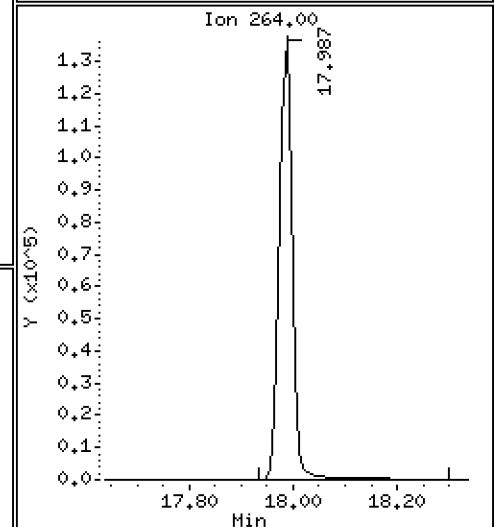
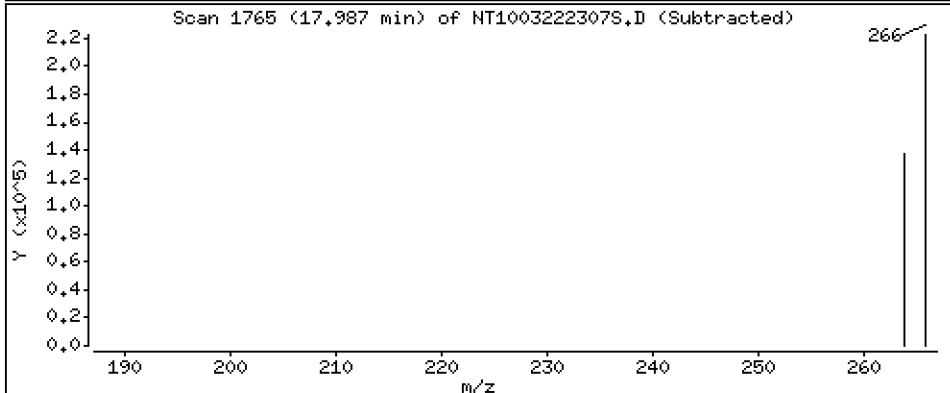
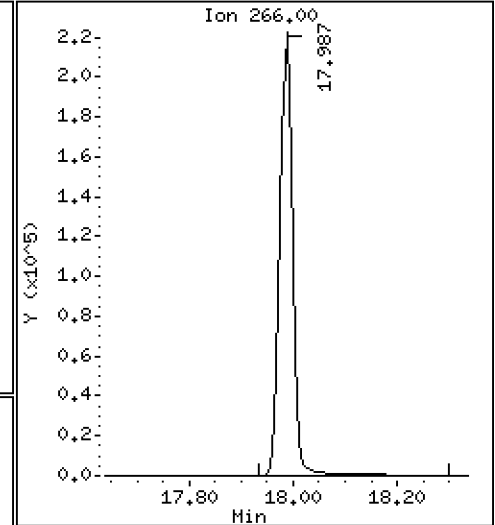
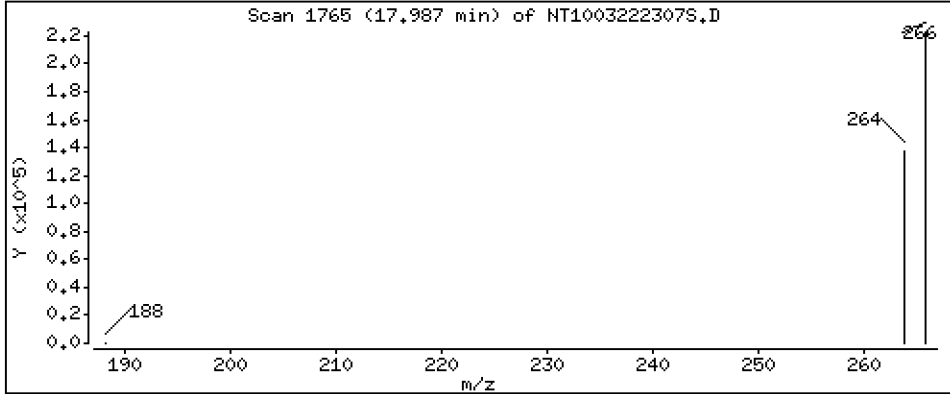
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 15,58 ug/L



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

Volume Injected (uL): 1.0

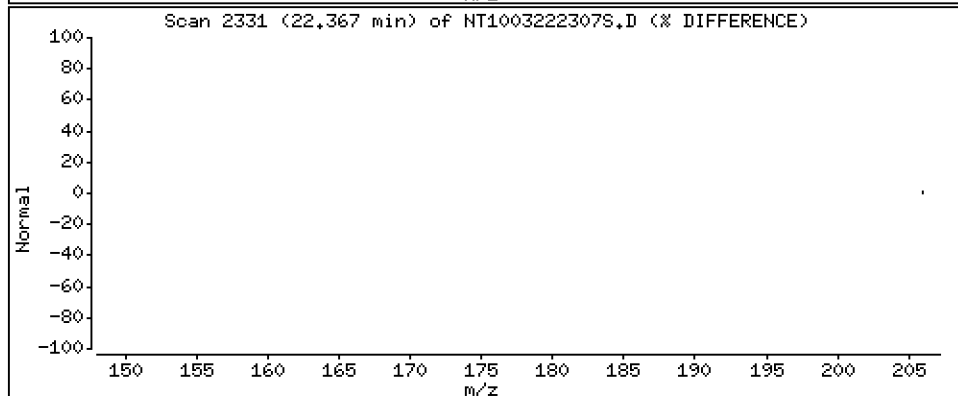
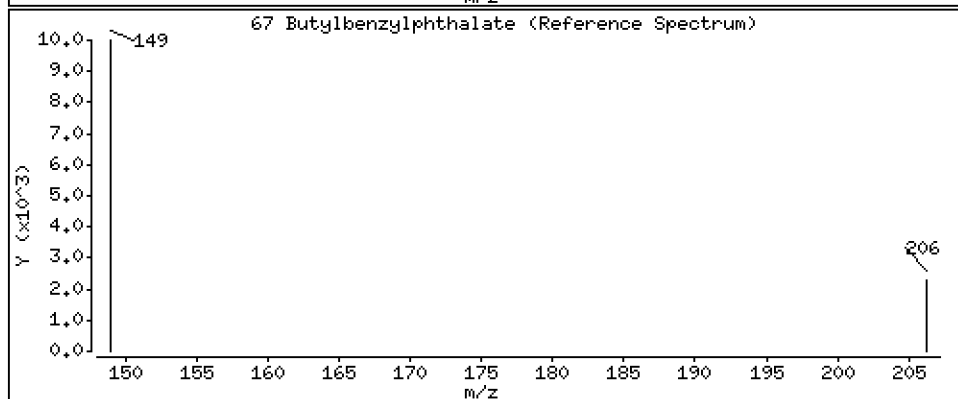
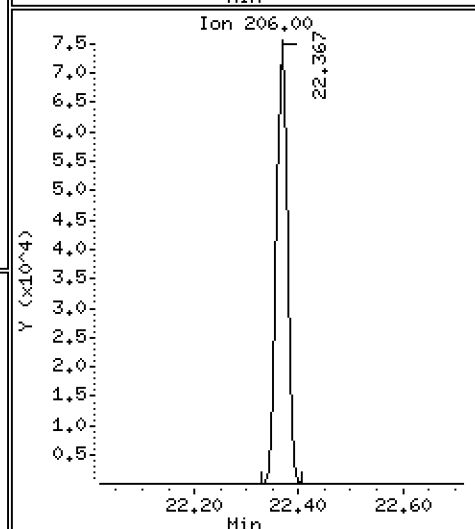
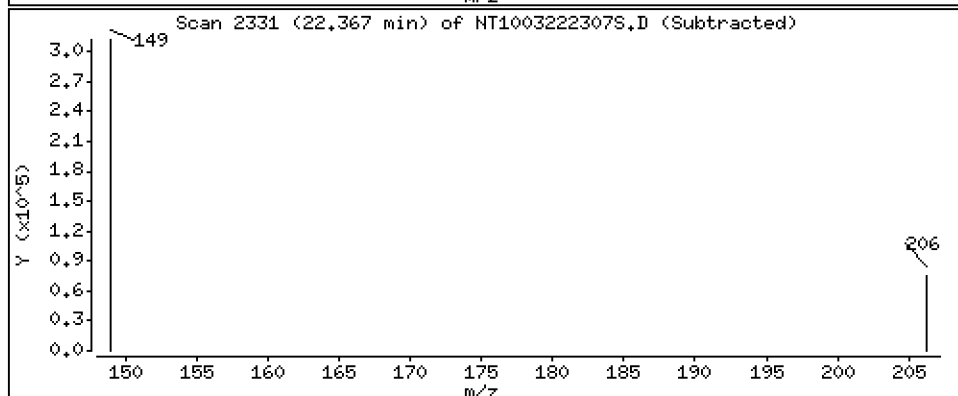
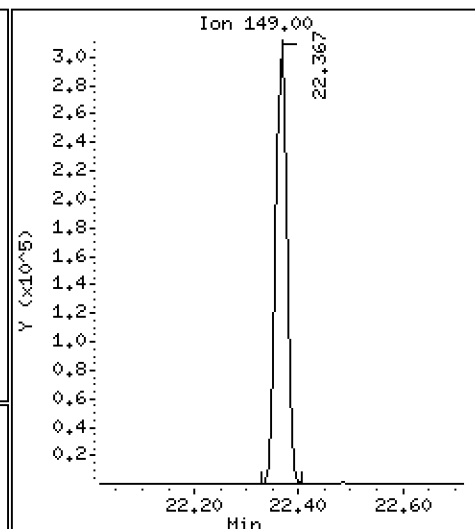
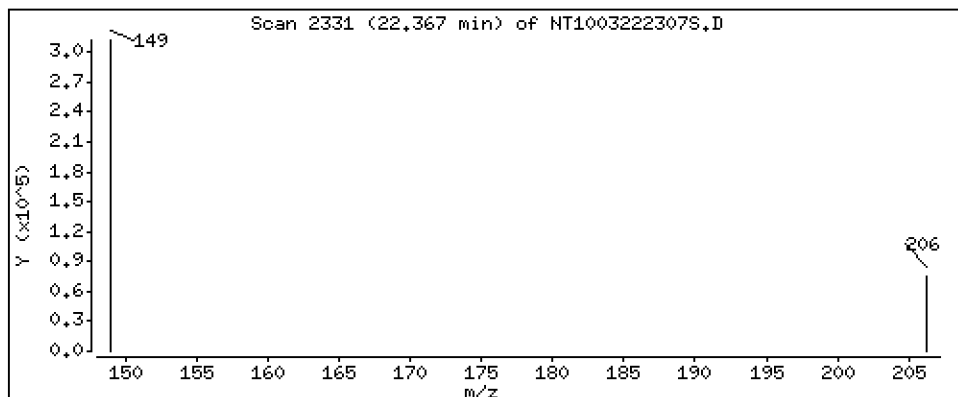
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 5,381 ug/L



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

Volume Injected (uL): 1.0

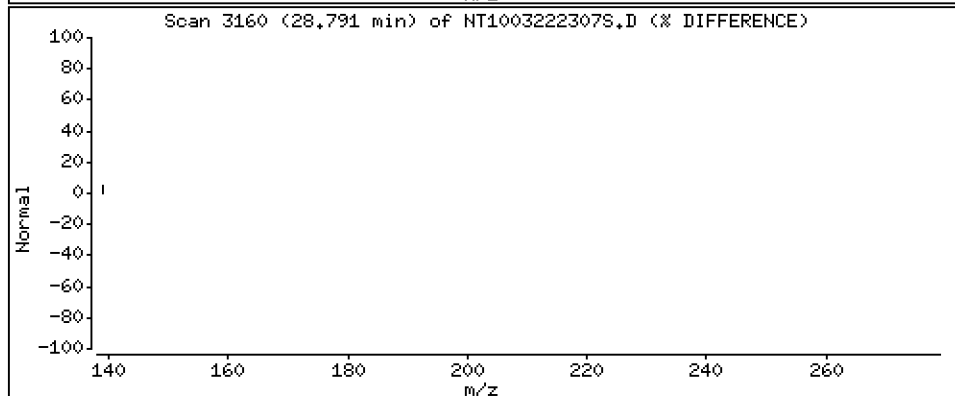
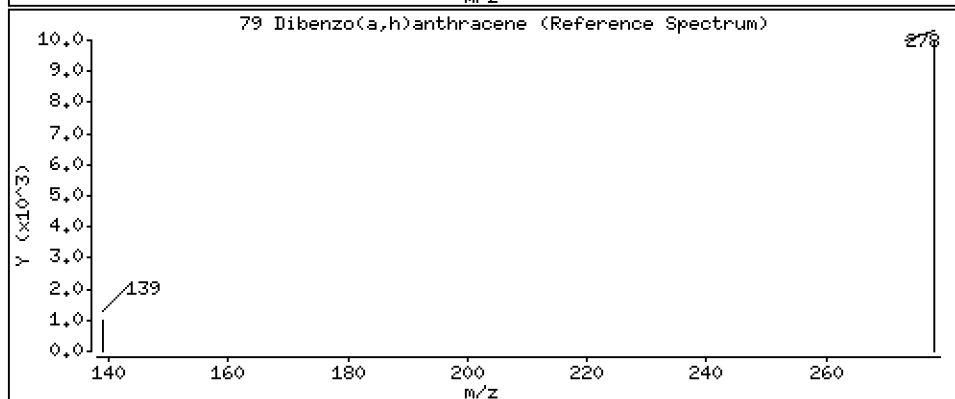
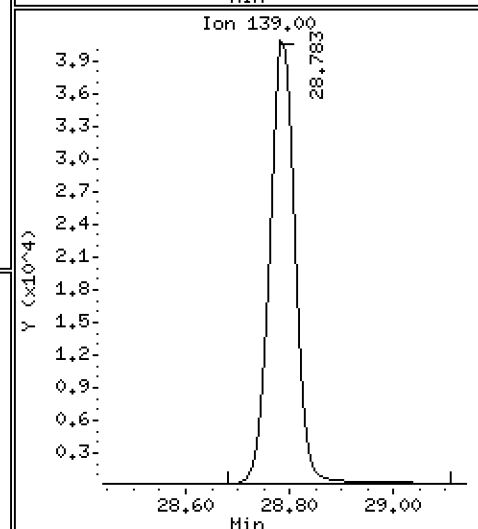
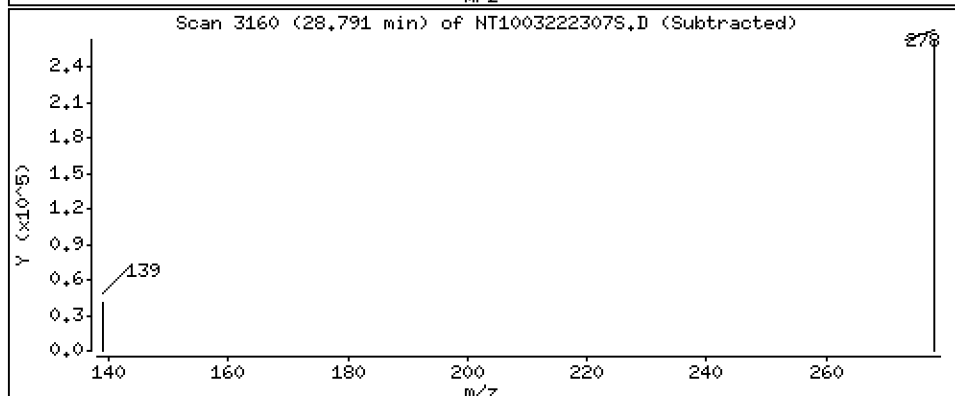
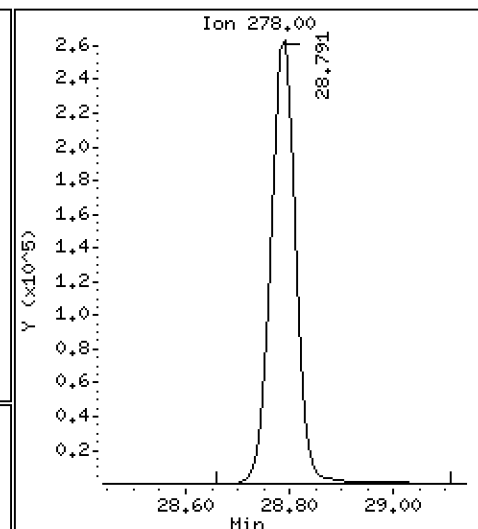
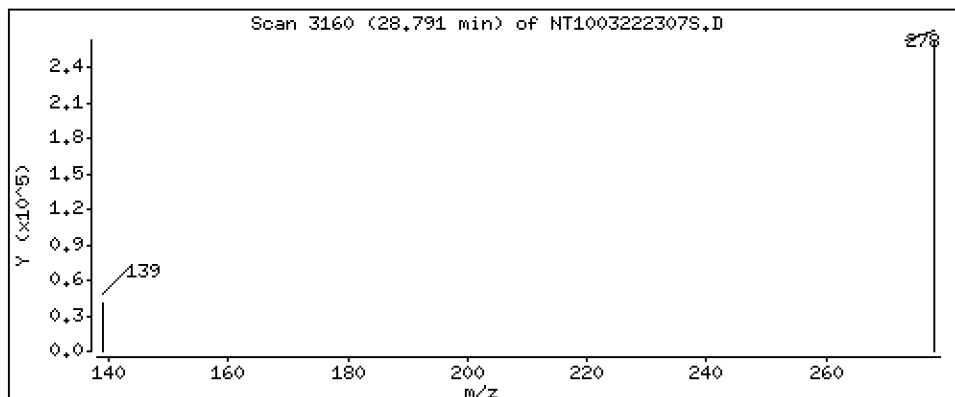
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 4,273 ug/L



Date : 22-MAR-2023 20:54

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BS1

Volume Injected (uL): 1.0

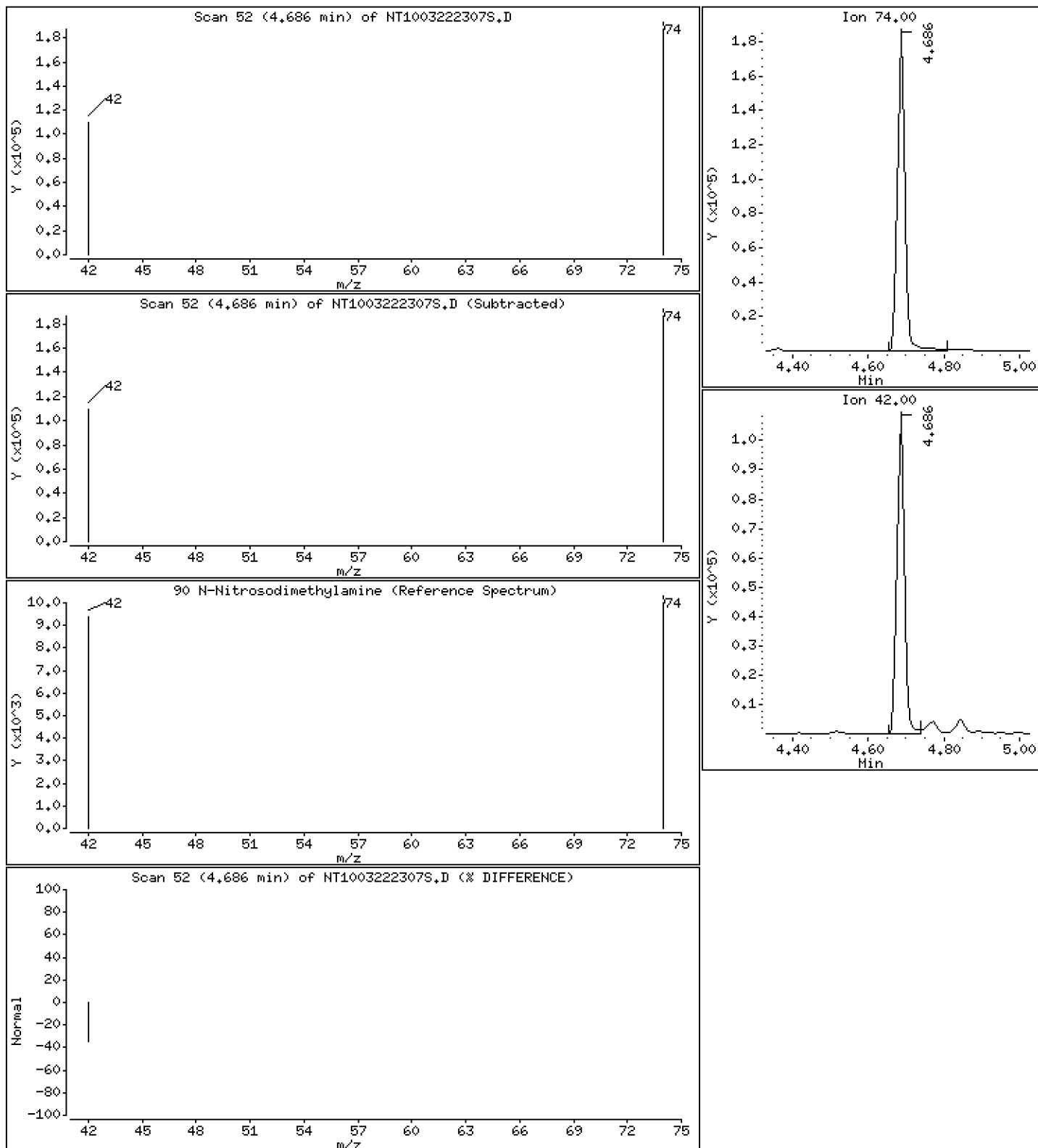
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

90 N-Nitrosodimethylamine

Concentration: 7.417 ug/L



ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230322.b\SIM.b\NT1003222307S.D
 Lab Smp Id: BLC0442-BS2
 Inj Date : 22-MAR-2023 20:54 MS Autotune Date: 16-JAN-2023 17:42
 Operator : JGR Inst ID: nt10.i
 Smp Info : BLC0442-BS1
 Misc Info :
 Comment :
 Method : \\target\share\chem3\nt10.i\20230322.b\SIM.b\SIMABN2.m
 Meth Date : 25-Mar-2023 13:23 yev Quant Type: ISTD
 Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D
 Als bottle: 7
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: PSDDA.sub
 Target Version: 4.14
 Processing Host: ORGDATA102

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

| Name | Value | Description |
|---------------|----------|---------------------------------|
| DF | 1.000 | Dilution Factor |
| Vo | 1000.000 | Volume of sample extracted (mL) |
| Vt | 1000.000 | Volume of final extract (uL) |
| Vi | 1.000 | Volume injected (uL) |
| Uf | 1.000 | ng unit correction factor |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT | SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|-------------------------------|-------|-----|--------|--------|---------|----------|-------------------|--------------|
| | | | | | | | ON-COLUMN (ug/mL) | FINAL (ug/L) |
| \$ 1 2-Fluorophenol | 112 | | 6.864 | 6.856 | (0.756) | 309614 | 5.84776 | 5.848 (R) |
| 3 Phenol | 94 | | 8.471 | 8.471 | (0.933) | 264980 | 3.64794 | 3.648 |
| 7 1,3-Dichlorobenzene | 146 | | 9.020 | 9.020 | (0.993) | 260618 | 3.83430 | 3.834 |
| * 8 1,4-Dichlorobenzene-d4 | 152 | | 9.082 | 9.090 | (1.000) | 174597 | 4.00000 | |
| 9 1,4-Dichlorobenzene | 146 | | 9.113 | 9.113 | (1.003) | 261538 | 3.98604 | 3.986 |
| 11 Benzyl alcohol | 79 | | 9.361 | 9.361 | (1.031) | 177159 | 4.20694 | 4.207 |
| 12 1,2-Dichlorobenzene | 146 | | 9.470 | 9.470 | (1.043) | 255968 | 3.96682 | 3.967 |
| 13 2-Methylphenol | 108 | | 9.586 | 9.586 | (1.056) | 180784 | 3.59184 | 3.592 |
| 15 4-Methylphenol | 108 | | 9.866 | 9.858 | (1.086) | 209433 | 4.00440 | 4.004 |
| 16 N-Nitroso-di-n-propylamine | 70 | | 9.920 | 9.920 | (1.092) | 142995 | 3.86606 | 3.866 |
| 22 2,4-Dimethylphenol | 107 | | 10.897 | 10.897 | (0.941) | 303456 | 5.48861 | 5.489 |
| 24 Benzoic acid | 105 | | 11.143 | 11.025 | (0.963) | 1020567 | 29.3391 | 29.34 |
| 26 1,2,4-Trichlorobenzene | 180 | | 11.485 | 11.485 | (0.992) | 222262 | 3.99619 | 3.996 |
| * 27 Naphthalene-d8 | 136 | | 11.577 | 11.569 | (1.000) | 639634 | 4.00000 | |
| 30 Hexachlorobutadiene | 225 | | 11.979 | 11.979 | (1.035) | 142333 | 4.20919 | 4.209 |
| 39 Dimethylphthalate | 163 | | 14.711 | 14.703 | (0.968) | 519216 | 5.10038 | 5.100 |
| * 42 Acenaphthene-d10 | 162 | | 15.198 | 15.198 | (1.000) | 322589 | 4.00000 | |
| 50 Diethylphthalate | 149 | | 16.172 | 16.165 | (1.064) | 581207 | 5.51117 | 5.511 |
| 54 N-Nitrosodiphenylamine | 169 | | 16.550 | 16.550 | (0.907) | 349077 | 4.10928 | 4.109 |
| 57 Hexachlorobenzene | 284 | | 17.623 | 17.623 | (0.966) | 179177 | 4.71173 | 4.712 |

| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|---------------------------|-----------|--------|--------|---------|----------|----------------------|------------------|
| | | | | | | ON-COLUMN (ug/mL) | FINAL (ug/L) |
| 58 Pentachlorophenol | 266 | 17.987 | 17.987 | (0.986) | 362520 | 15.5757 | 15.58 |
| * 59 Phenanthrene-d10 | 188 | 18.250 | 18.250 | (1.000) | 633150 | 4.00000 | |
| \$ 66 Terphenyl-d14 | 244 | 21.422 | 21.422 | (0.918) | 414950 | 4.44725 | 4.447 (R) |
| 67 Butylbenzylphthalate | 149 | 22.367 | 22.367 | (0.958) | 431780 | 5.38075 | 5.381 |
| * 69 Chrysene-d12 | 240 | 23.342 | 23.343 | (1.000) | 572648 | 4.00000 | |
| * 77 Perylene-d12 | 264 | 26.029 | 26.029 | (1.000) | 635593 | 4.00000 | |
| 79 Dibenzo(a,h)anthracene | 278 | 28.790 | 28.790 | (1.106) | 869927 | 4.27347 | 4.273 |
| 90 N-Nitrosodimethylamine | 74 | 4.686 | 4.678 | (0.516) | 249065 | 7.41704 | 7.417 |

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i
 Lab File ID: NT1003222307S.D
 Lab Smp Id: BLC0442-BS2
 Analysis Type: SV
 Quant Type: ISTD
 Operator: JGR
 Method File: \\target\share\chem3\nt10.i\20230322.b\SIM.b\SIMABN2.m
 Misc Info:

Calibration Date: 22-MAR-2023
 Calibration Time: 18:20
 Level: LOW
 Sample Type: AIR

Test Mode:
 Use Last Continuing Calibrator.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|------------|---------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 135191 | 67596 | 270382 | 174597 | 29.15 |
| 27 Naphthalene-d8 | 487226 | 243613 | 974452 | 639634 | 31.28 |
| 42 Acenaphthene-d10 | 246588 | 123294 | 493176 | 322589 | 30.82 |
| 59 Phenanthrene-d10 | 479352 | 239676 | 958704 | 633150 | 32.08 |
| 69 Chrysene-d12 | 439791 | 219896 | 879582 | 572648 | 30.21 |
| 77 Perylene-d12 | 505700 | 252850 | 1011400 | 635593 | 25.69 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 9.09 | 8.59 | 9.59 | 9.08 | -0.09 |
| 27 Naphthalene-d8 | 11.57 | 11.07 | 12.07 | 11.58 | 0.07 |
| 42 Acenaphthene-d10 | 15.20 | 14.70 | 15.70 | 15.20 | -0.00 |
| 59 Phenanthrene-d10 | 18.25 | 17.75 | 18.75 | 18.25 | -0.00 |
| 69 Chrysene-d12 | 23.34 | 22.84 | 23.84 | 23.34 | -0.00 |
| 77 Perylene-d12 | 26.03 | 25.53 | 26.53 | 26.03 | -0.00 |

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

REVIEW SUMMARY FOR FILE - NT1003222307S.D

Lab ID: BLC0442-BS2

nt10.i, 20230322.b\SIM.b\SIMABN2.m, 22-MAR-2023 20:54

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT | CCV RRT | DELTA | COMPOUND |
|-------|---------|--------|--------------|
| 0.963 | 0.953 | 0.0096 | Benzoic acid |

RRT check based on Ccal File: SIM.b/NT1003222303S.D

On Column LOD for nt10.i, SIM.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

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

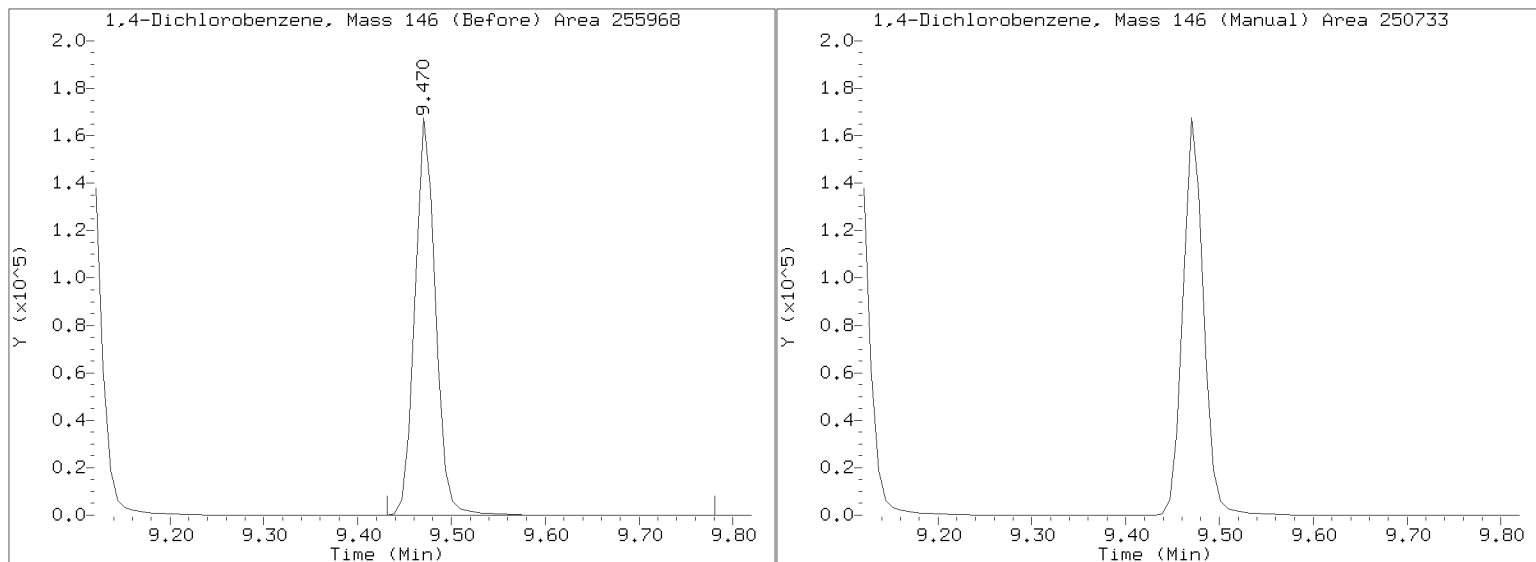
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230322.b/SIM.b/NT1003222307S.D

Injection Date: 22-MAR-2023 20:54

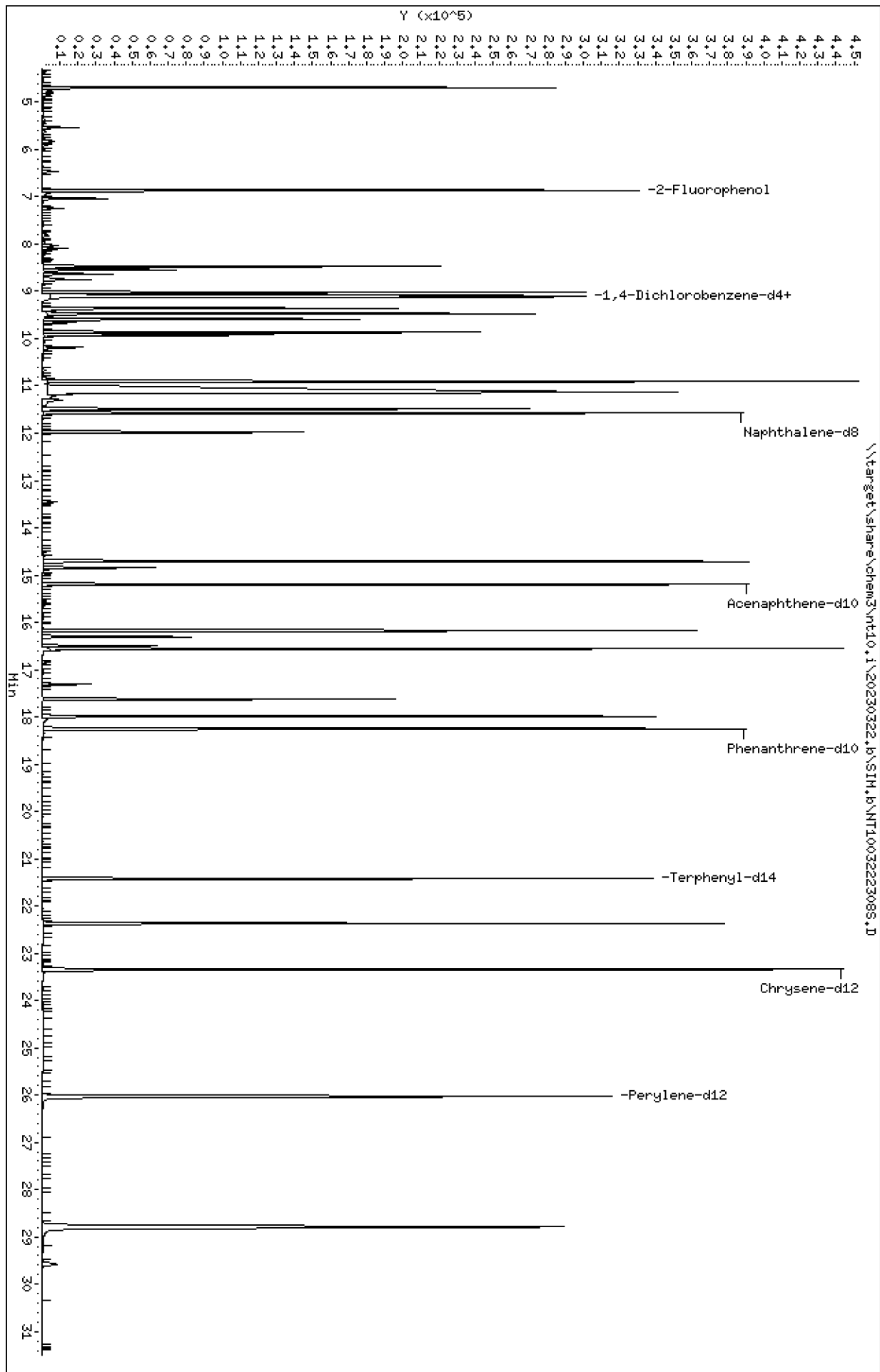
Lab ID: BLC0442-BS1 Client ID:

Report Date: 03/25/2023 12:07



Data File: \\target\share\chem3\nt10.1\20230322.16\SIM.B\N100322308S.D
Date: 22-MAR-2023 21:32
Client ID:
Sample Info: BLC0442-BSM1
Volume Injected (uL): 1.0
Column phase: ZB-5msi

Instrument: nt10.1
Operator: JGR
Column diameter: 0.25



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

Volume Injected (uL): 1.0

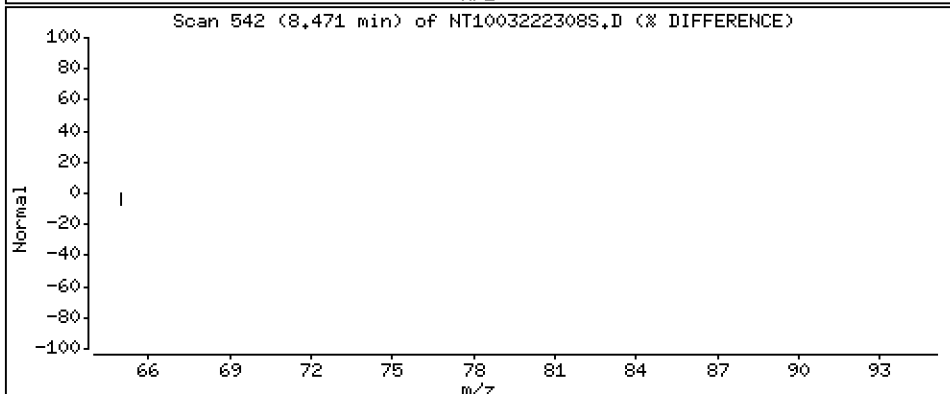
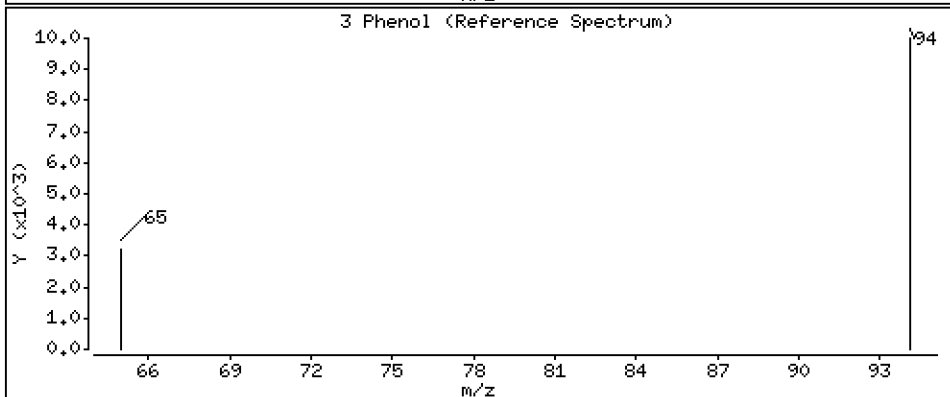
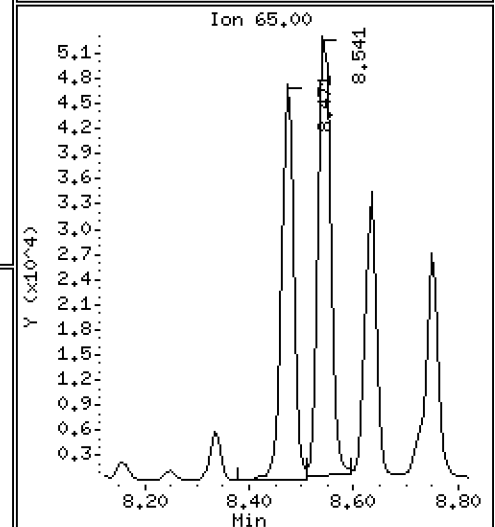
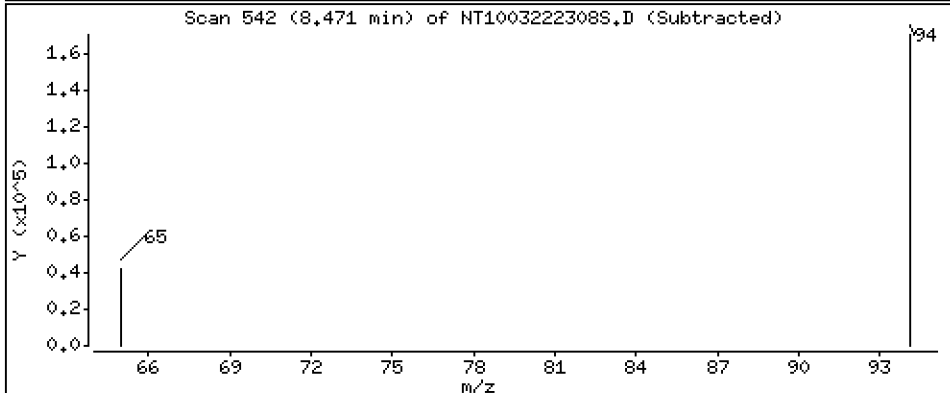
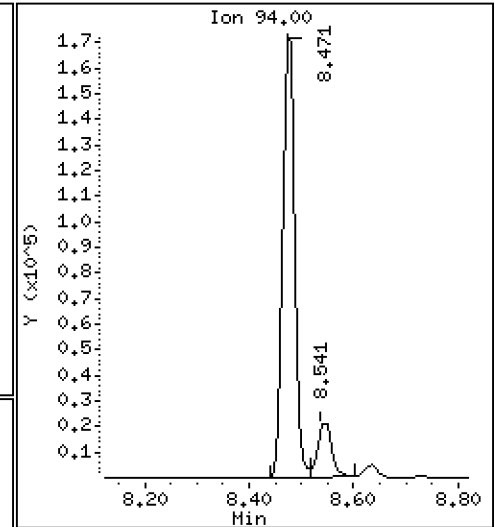
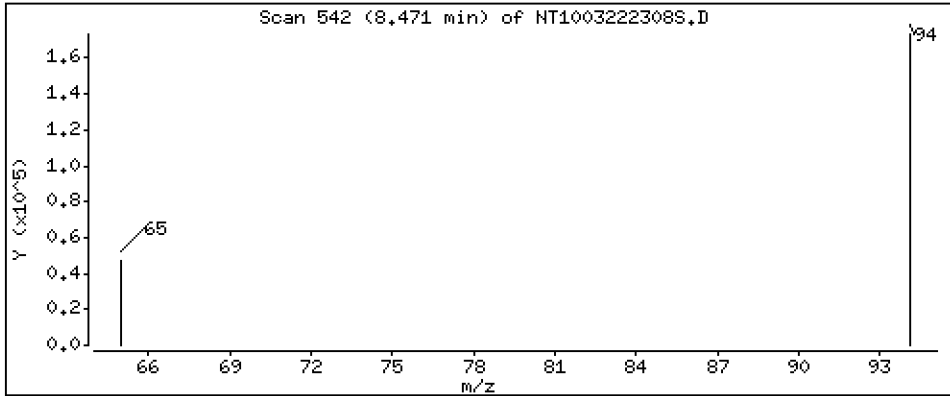
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

3 Phenol

Concentration: 3,727 ug/L



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

Volume Injected (uL): 1.0

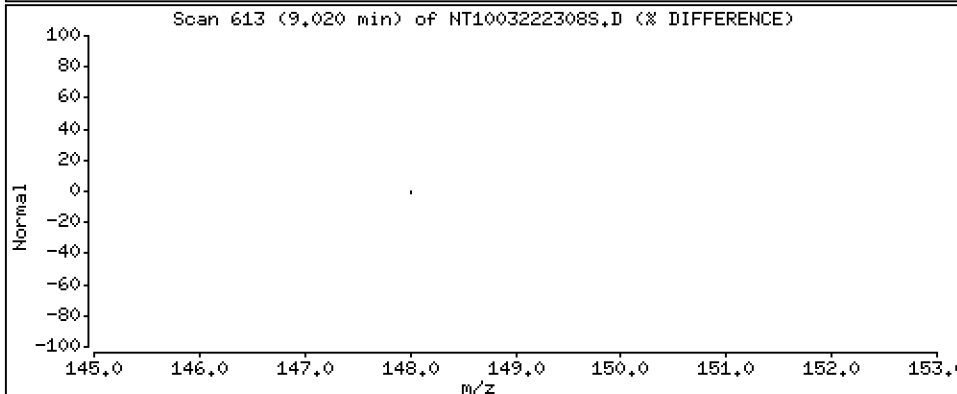
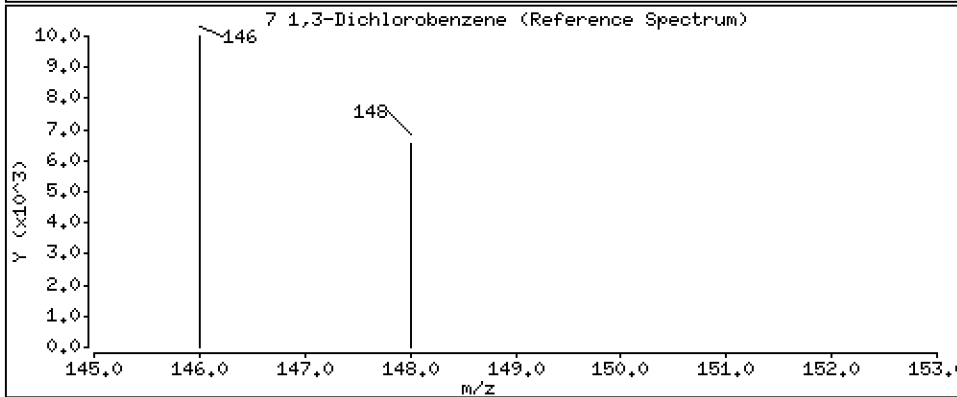
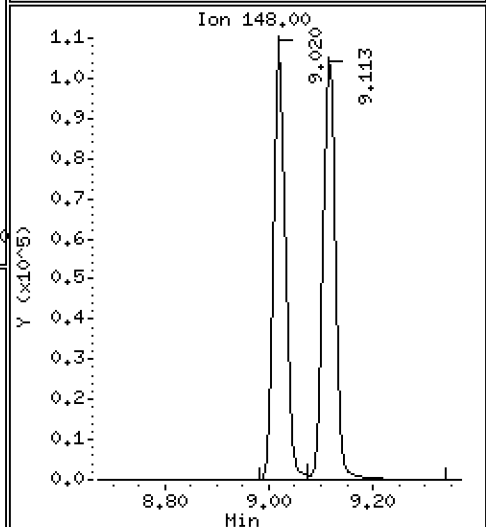
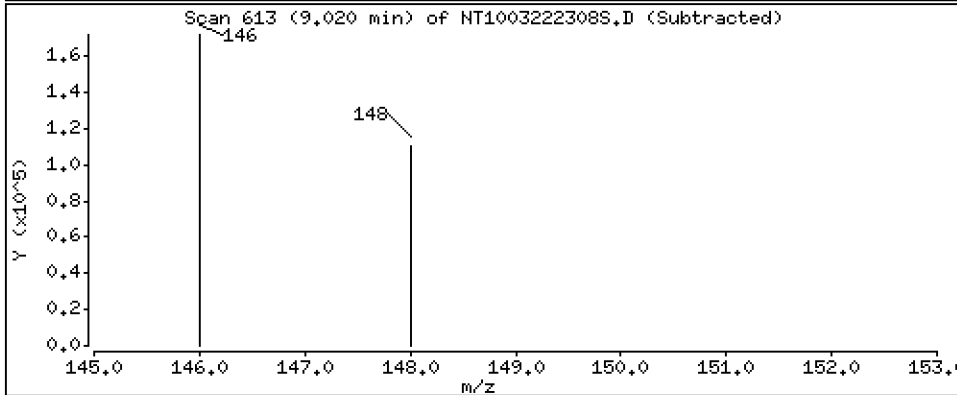
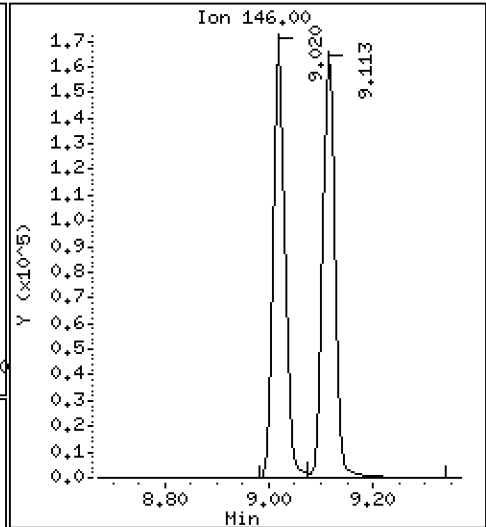
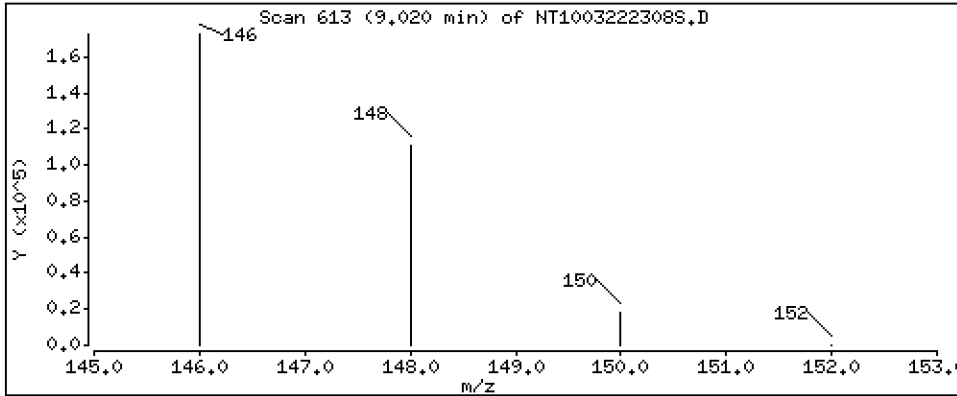
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

7 1,3-Dichlorobenzene

Concentration: 3.957 ug/L



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

Volume Injected (uL): 1.0

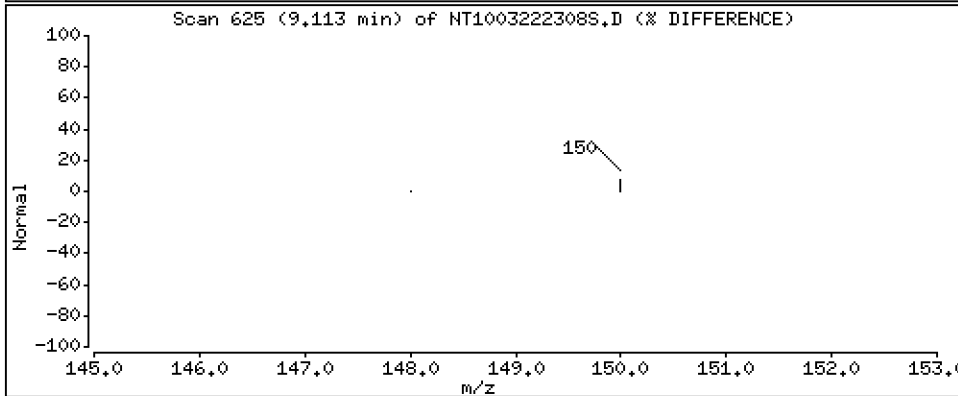
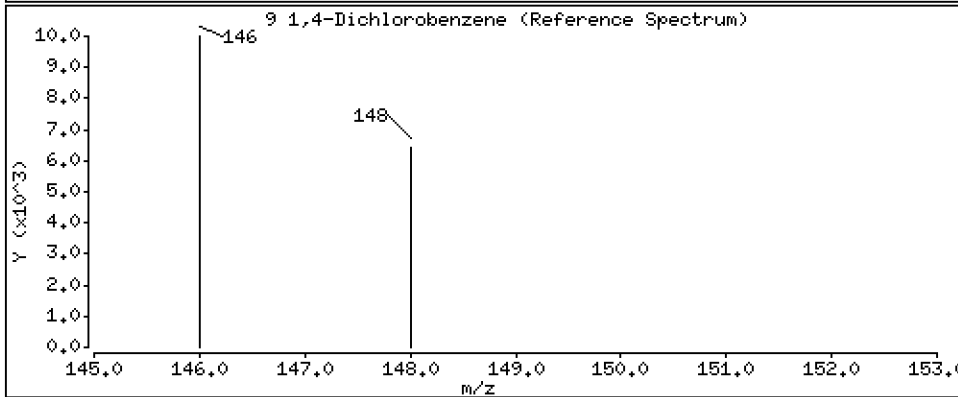
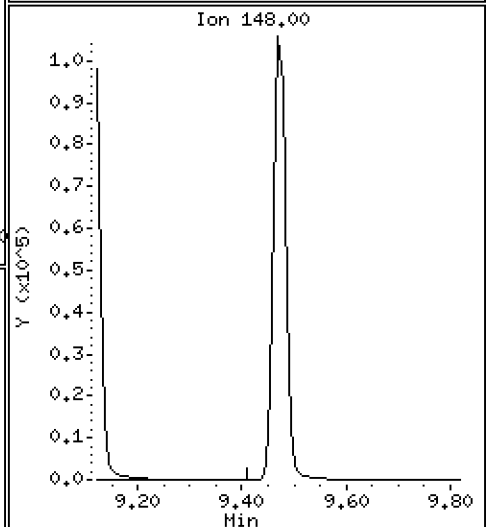
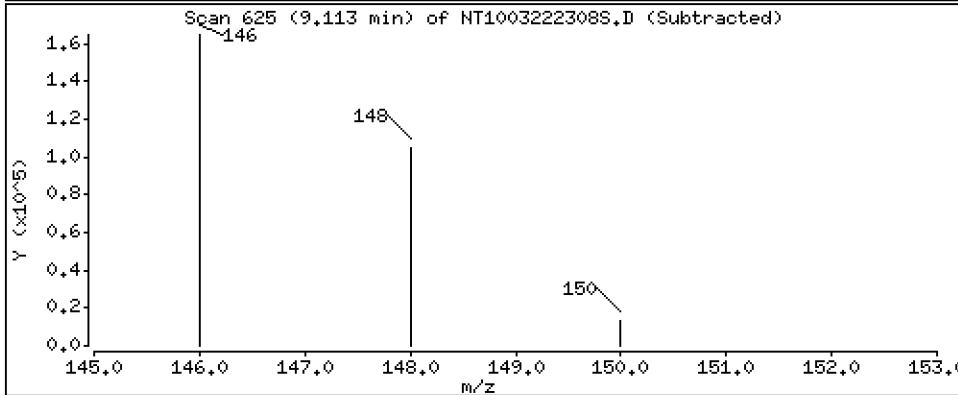
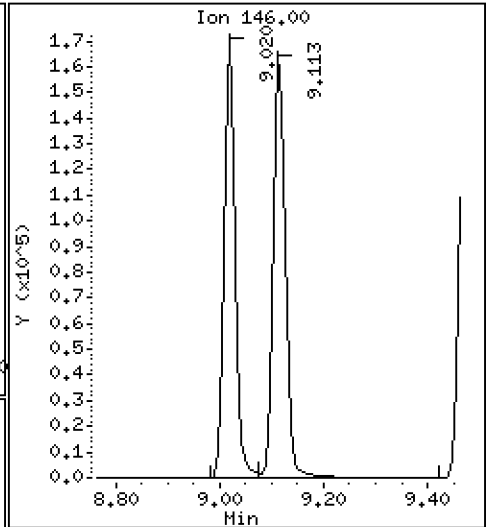
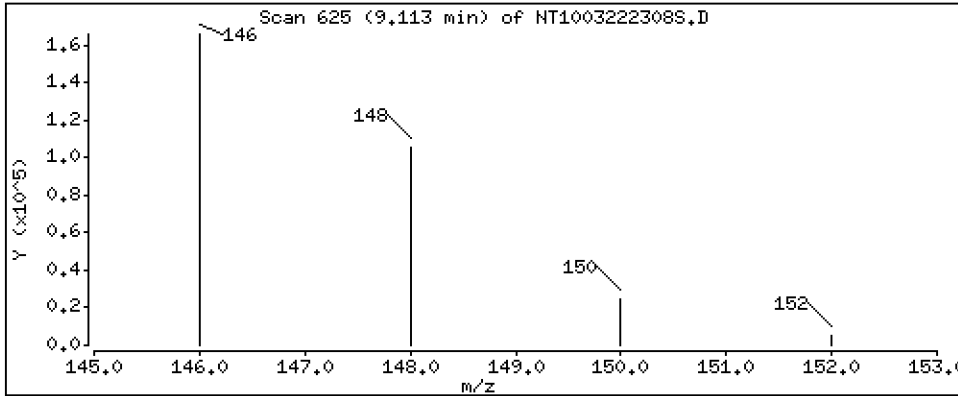
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

9 1,4-Dichlorobenzene

Concentration: 4.064 ug/L



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

Volume Injected (uL): 1.0

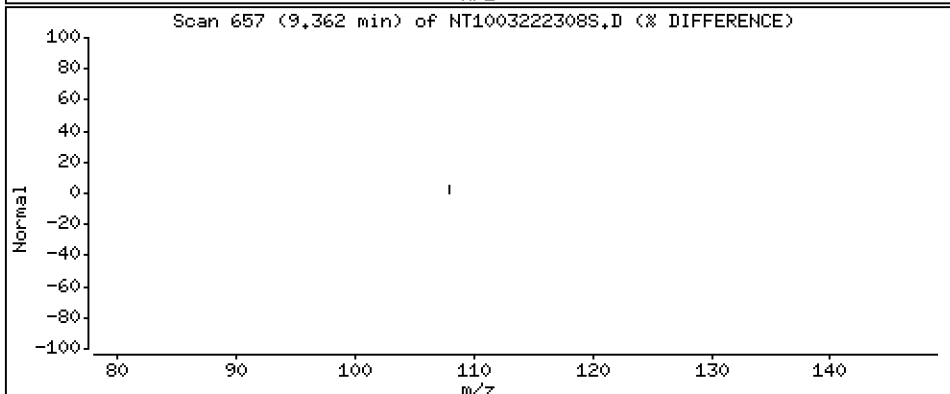
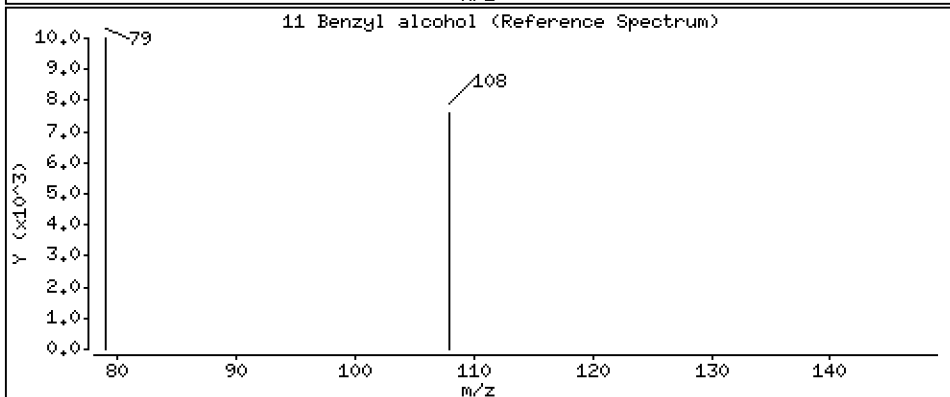
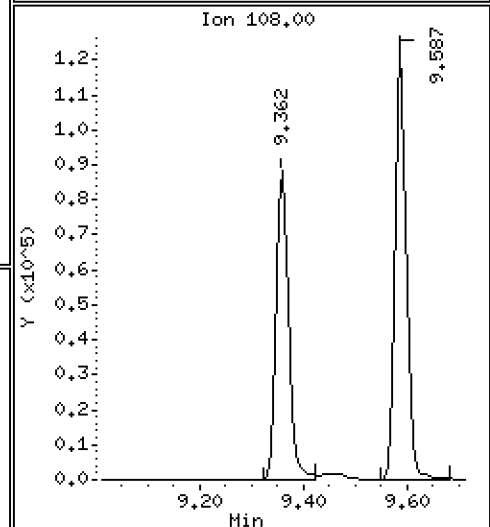
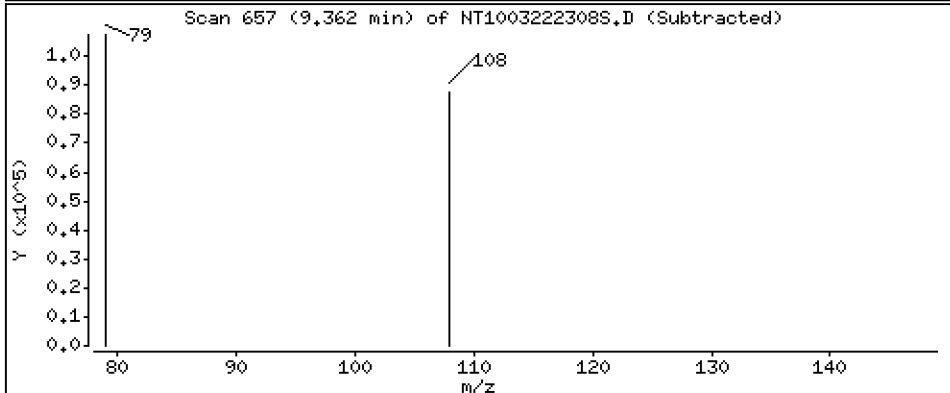
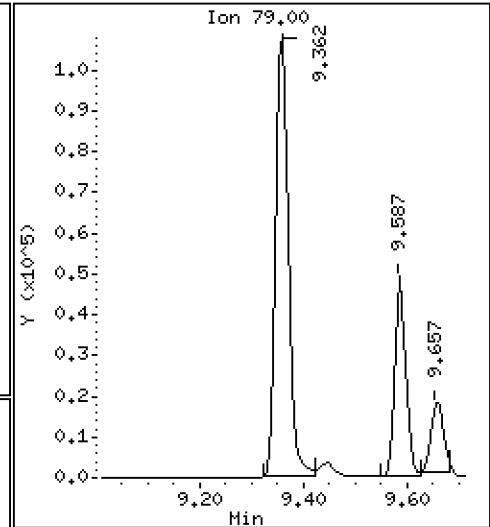
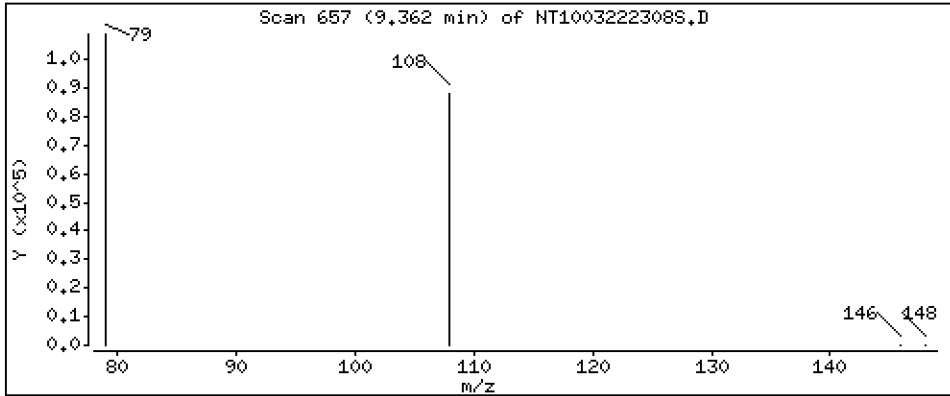
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 4.364 ug/L



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

Volume Injected (uL): 1.0

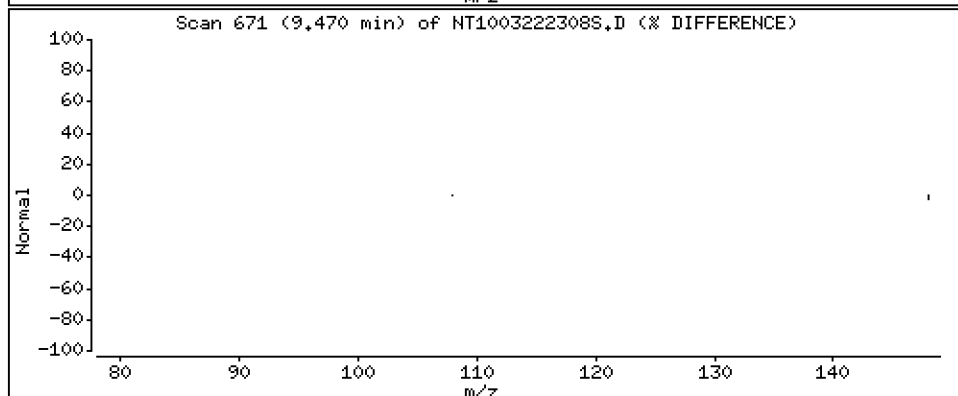
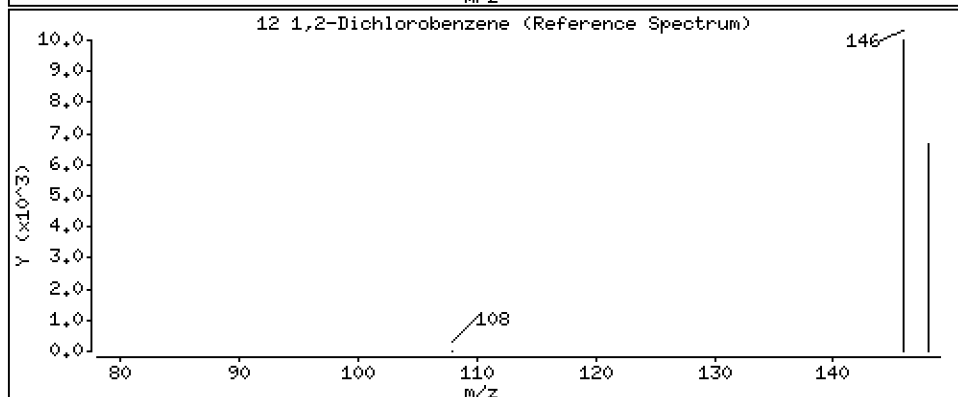
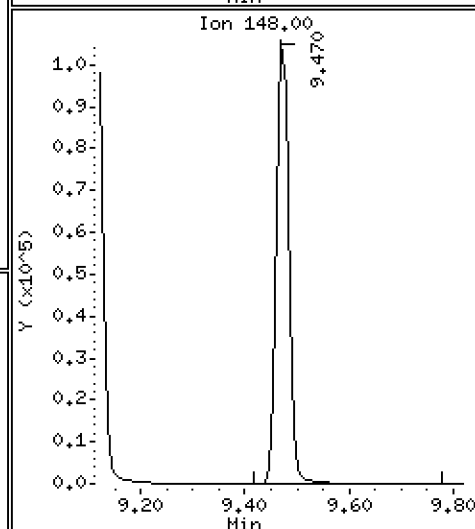
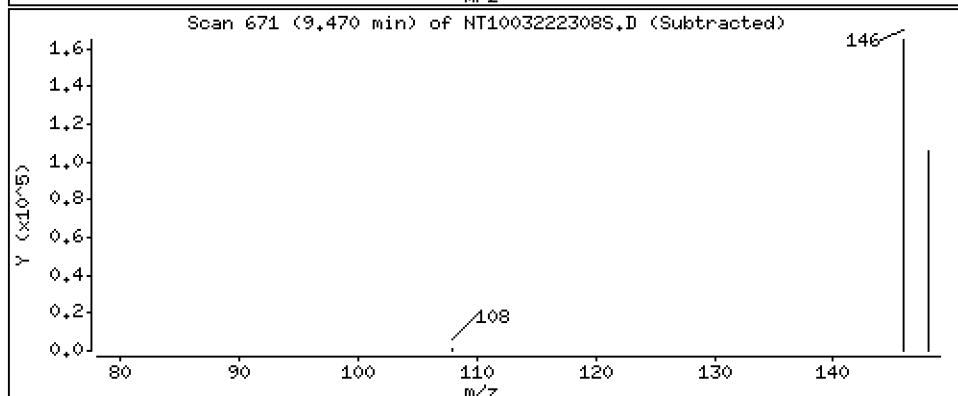
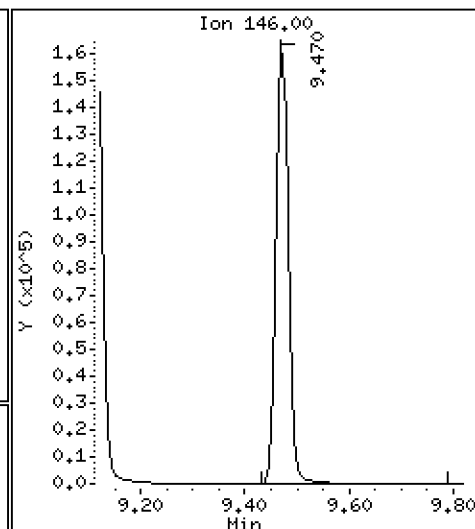
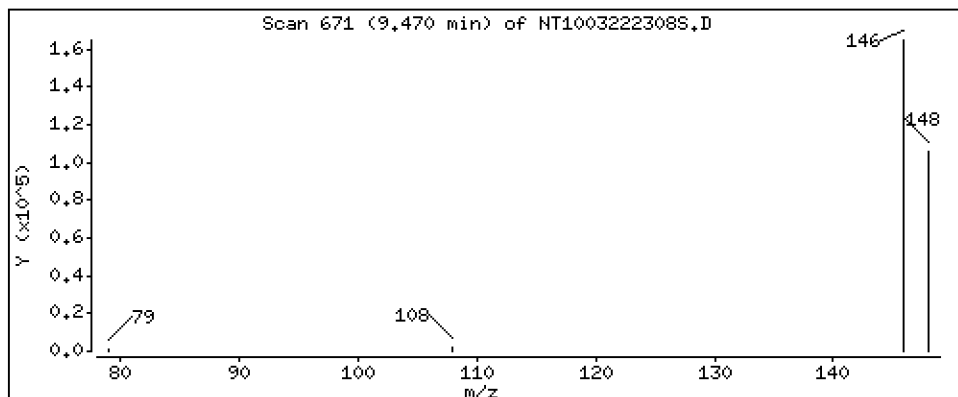
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

12 1,2-Dichlorobenzene

Concentration: 4.079 ug/L



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

Volume Injected (uL): 1.0

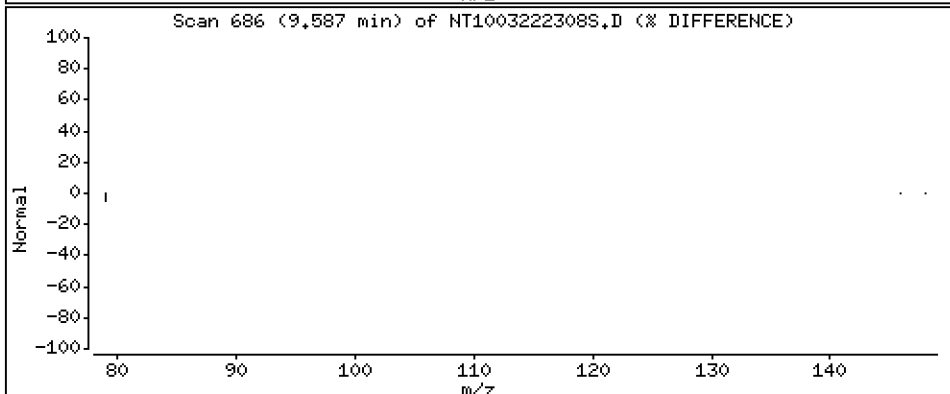
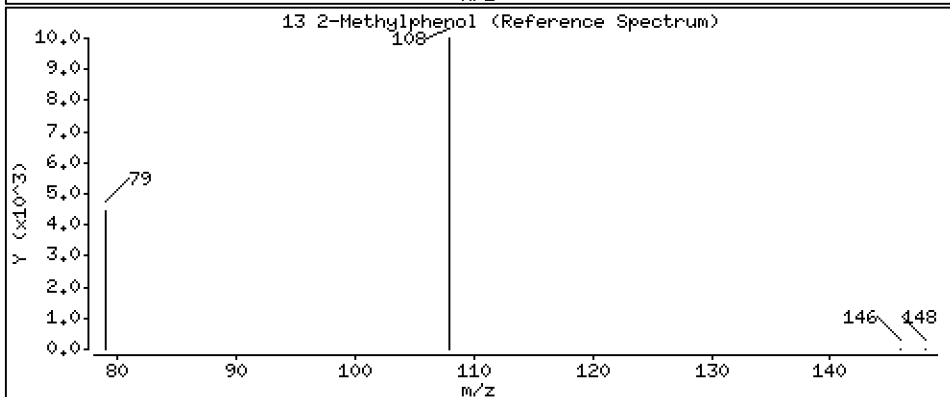
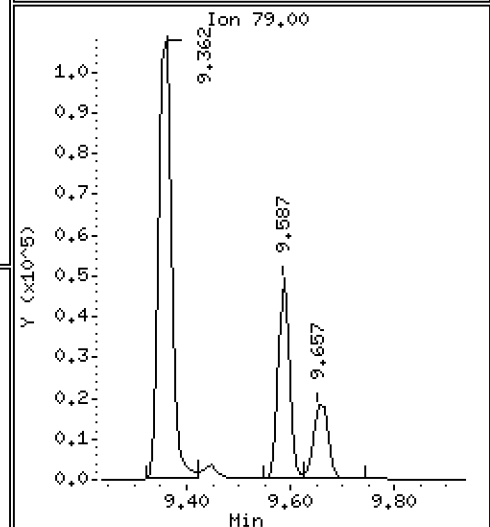
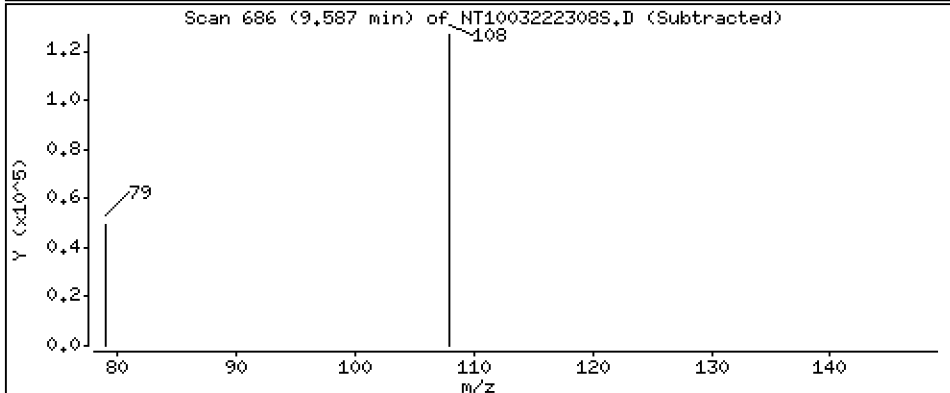
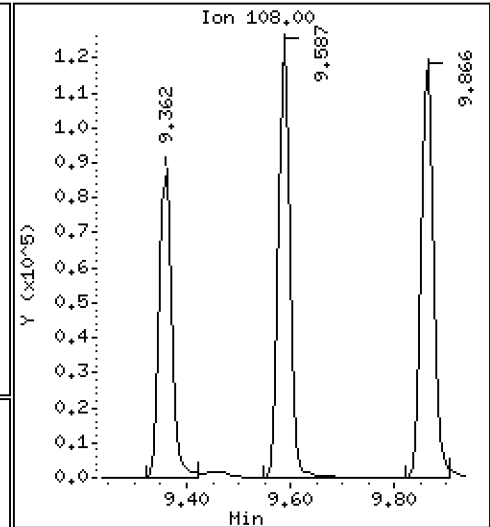
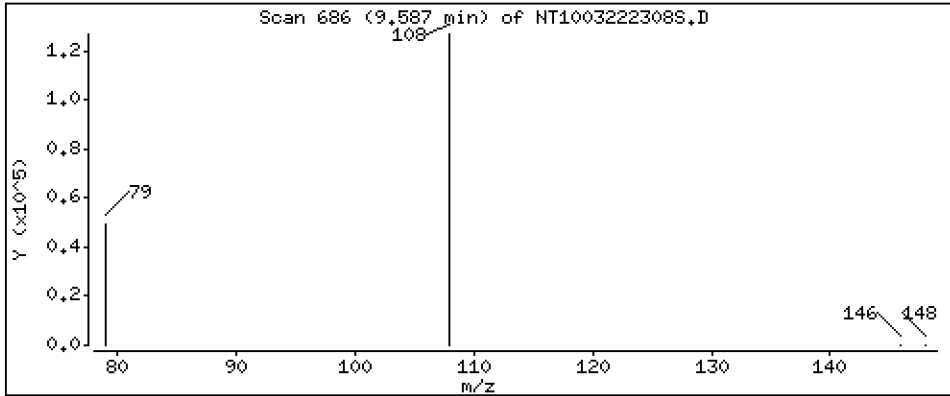
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

13 2-Methylphenol

Concentration: 3,680 ug/L



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

Volume Injected (uL): 1.0

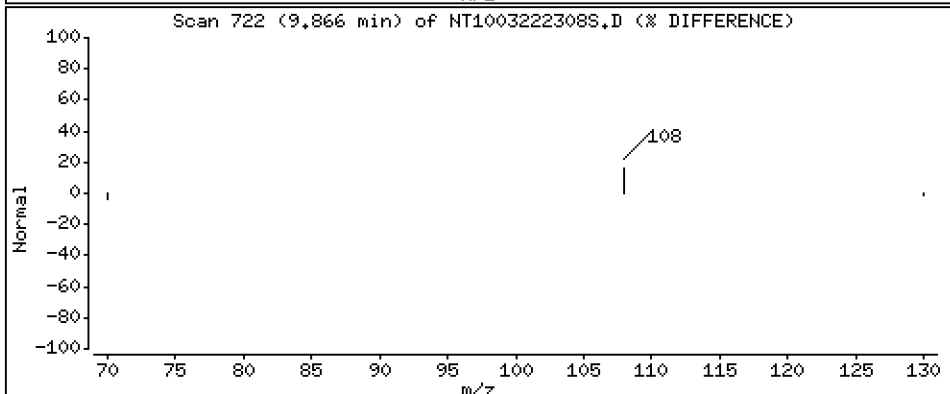
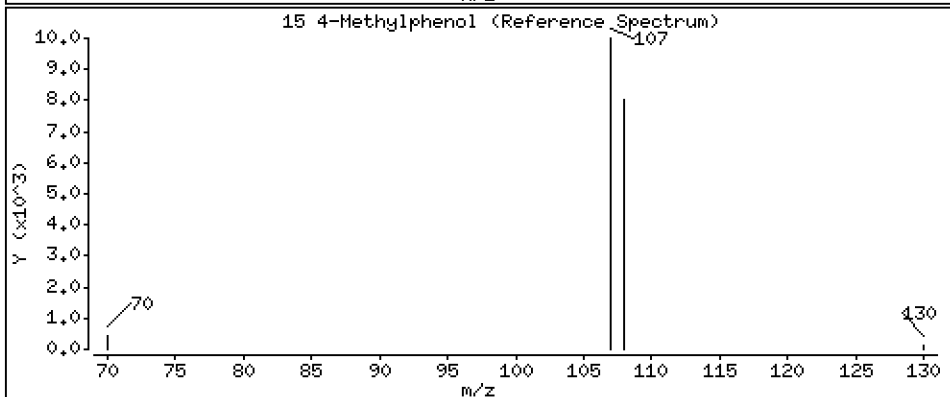
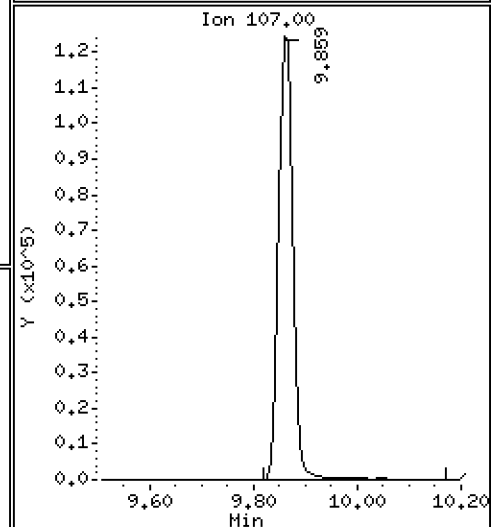
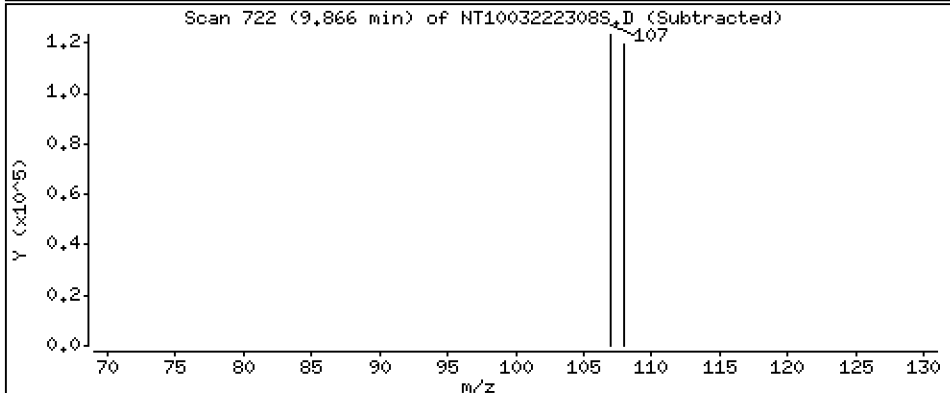
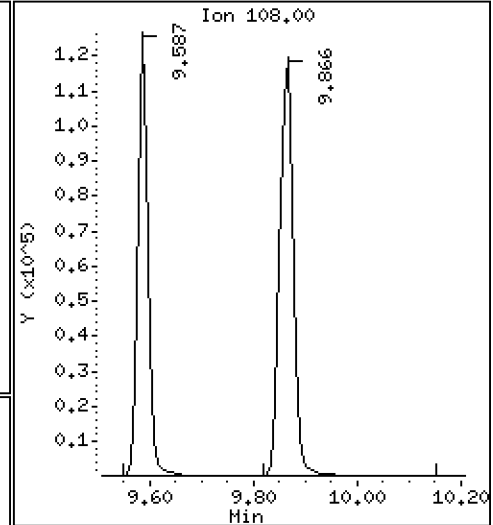
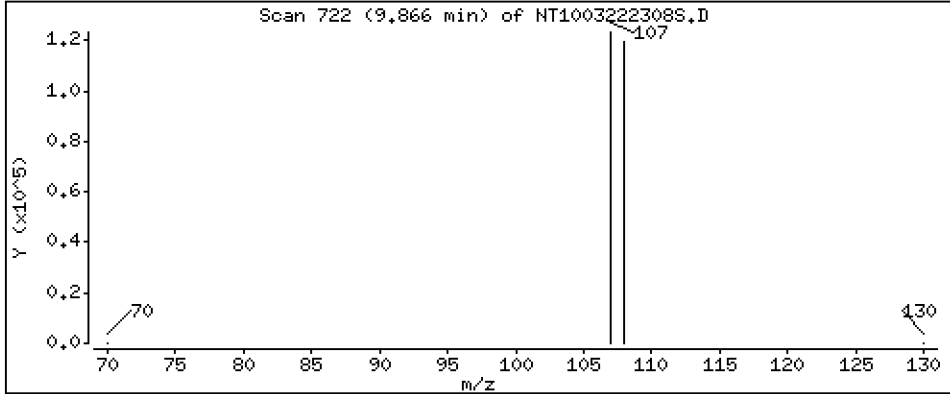
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 4.152 ug/L



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

Volume Injected (uL): 1.0

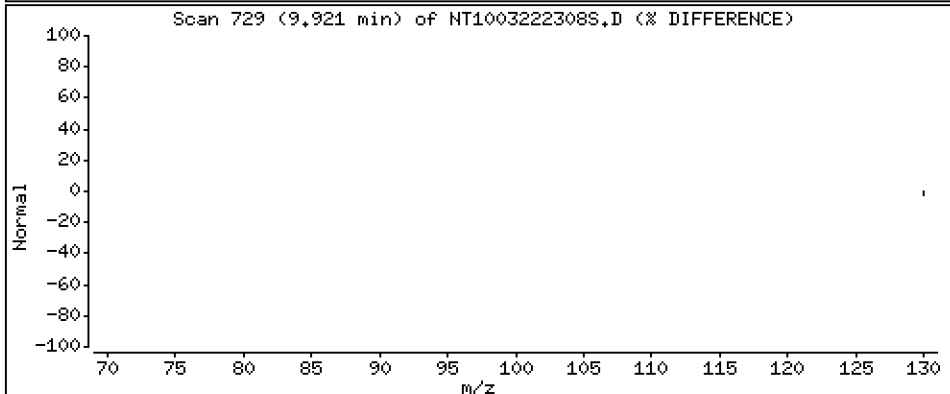
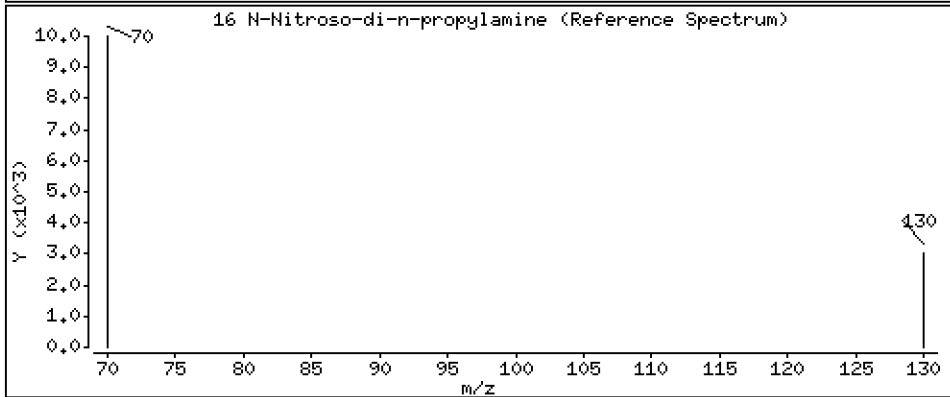
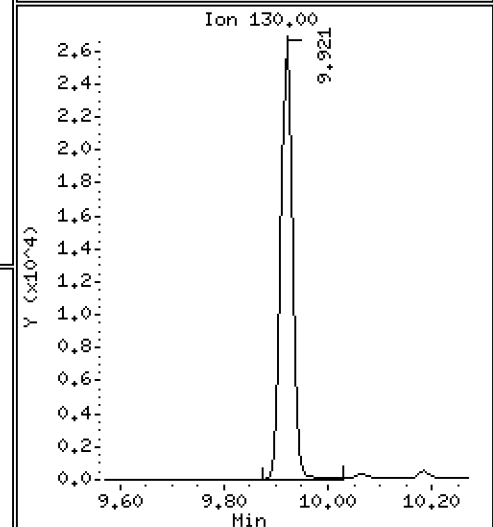
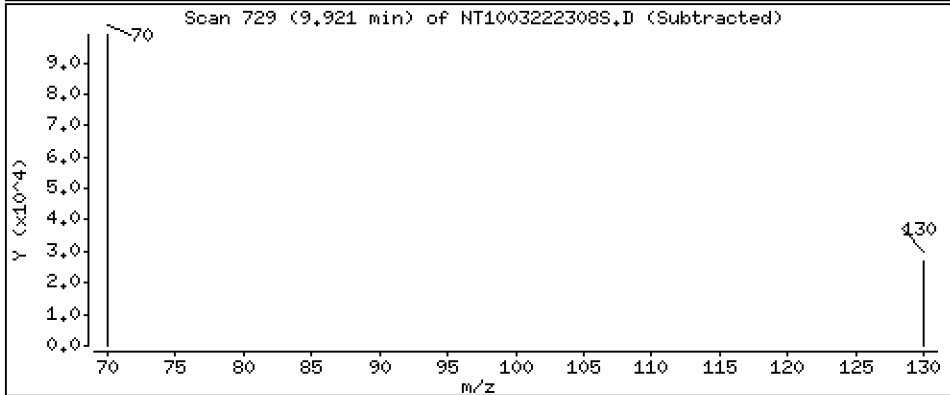
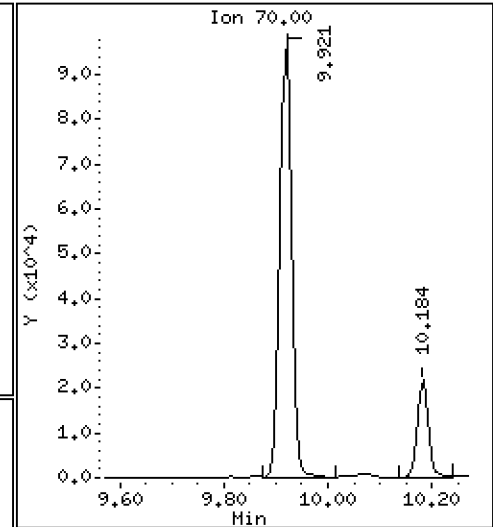
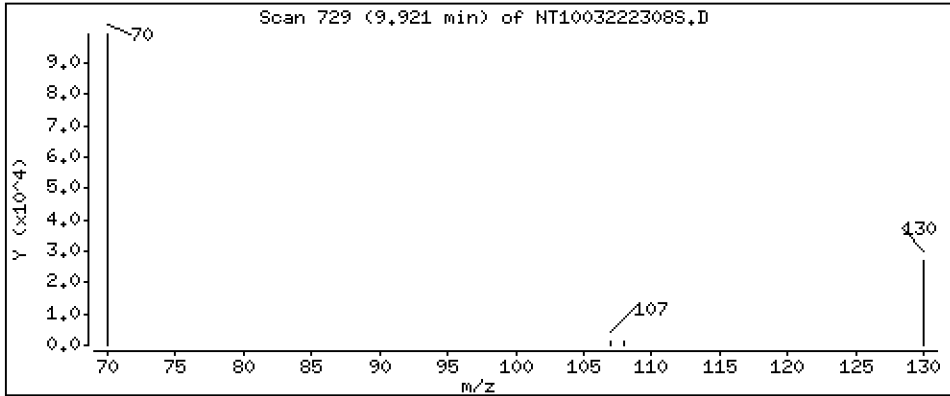
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

16 N-Nitroso-di-n-propylamine

Concentration: 4.031 ug/L



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

Volume Injected (uL): 1.0

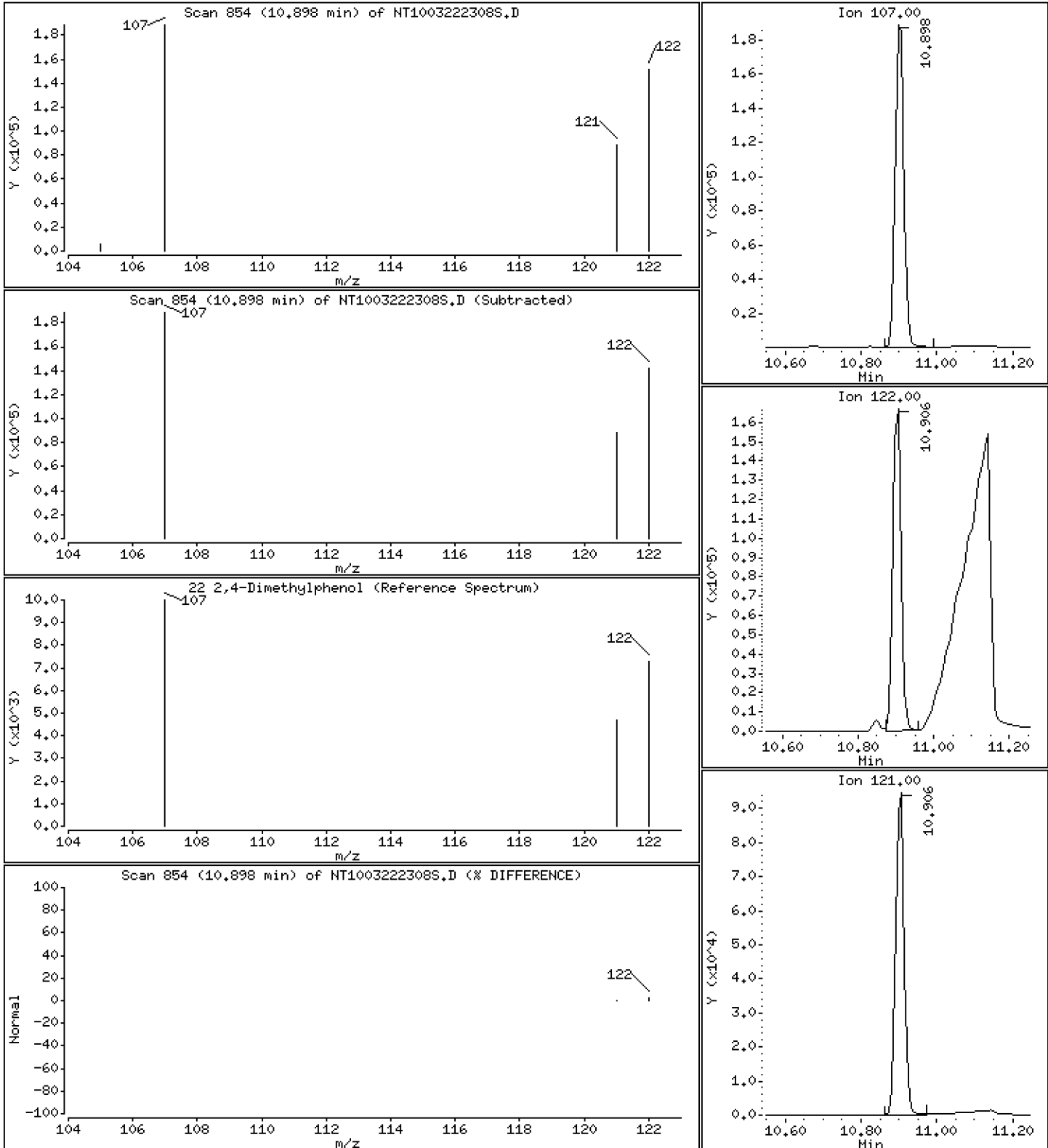
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

22 2,4-Dimethylphenol

Concentration: 5,572 ug/L



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

Volume Injected (uL): 1.0

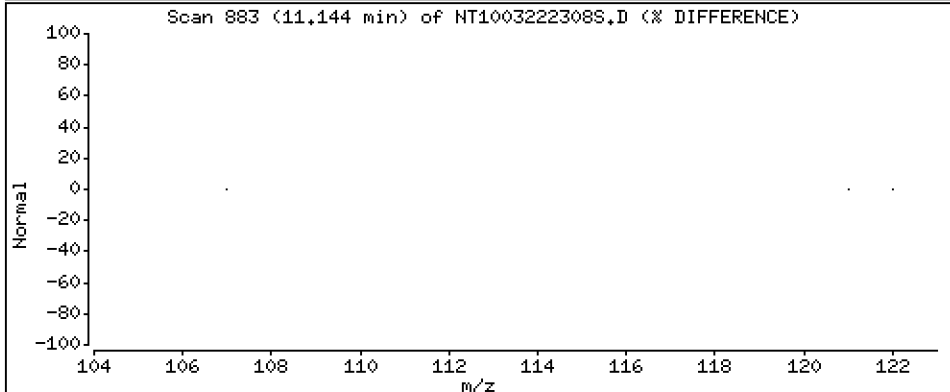
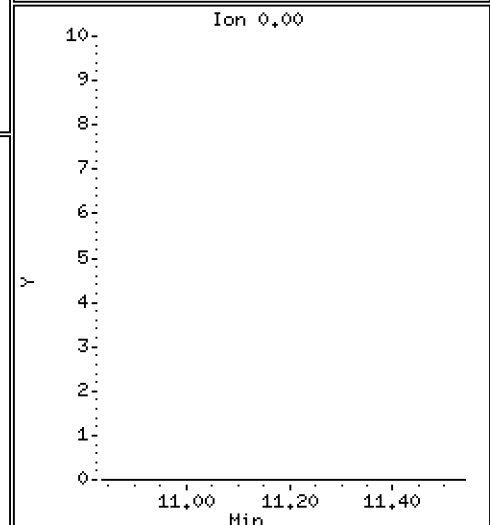
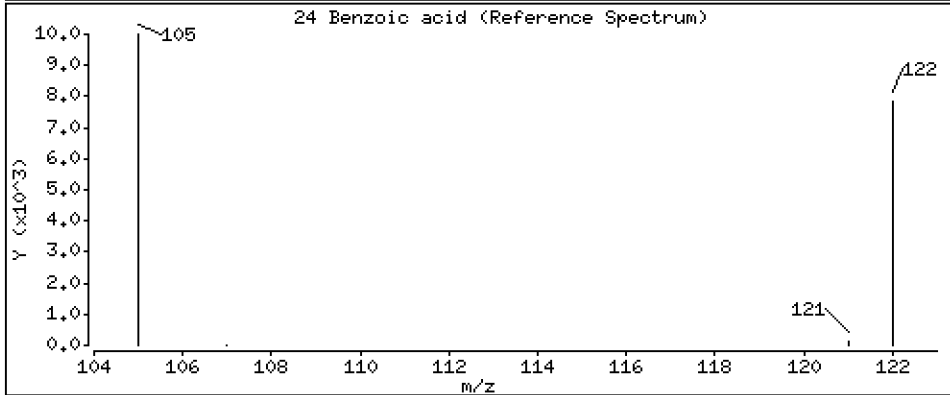
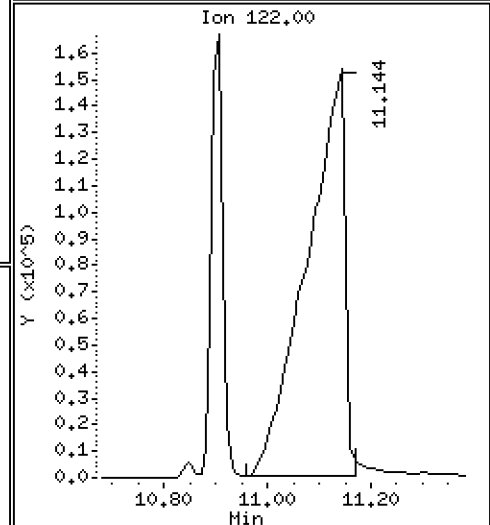
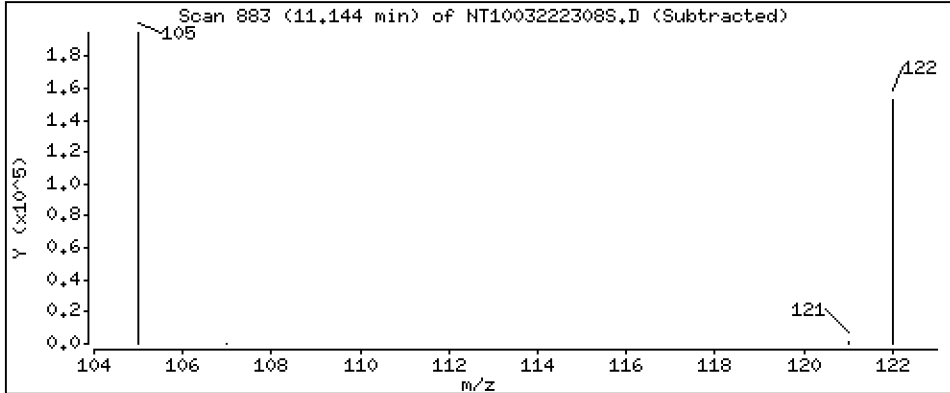
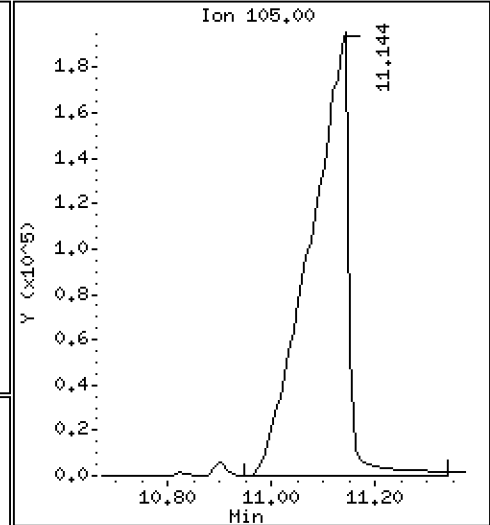
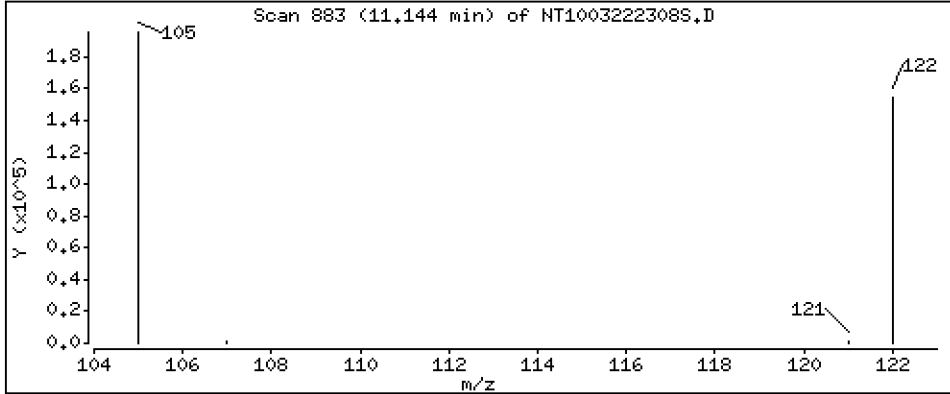
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

24 Benzoic acid

Concentration: 30,43 ug/L



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

Volume Injected (uL): 1.0

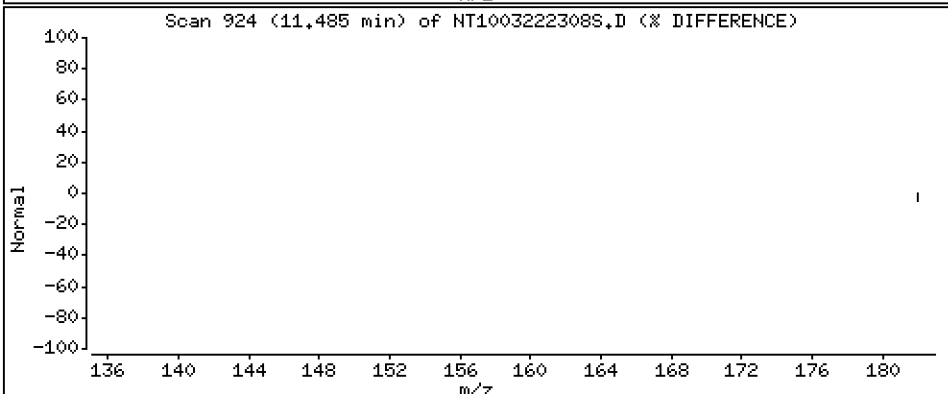
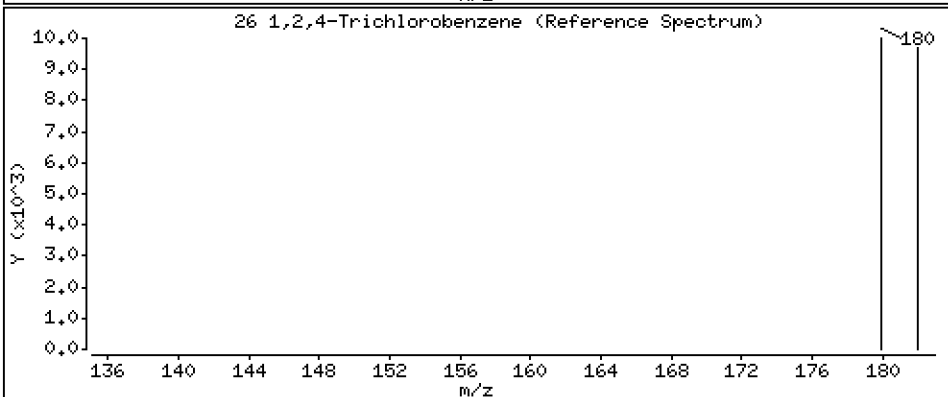
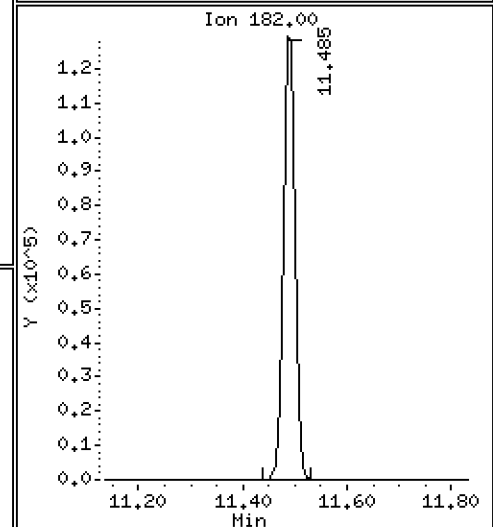
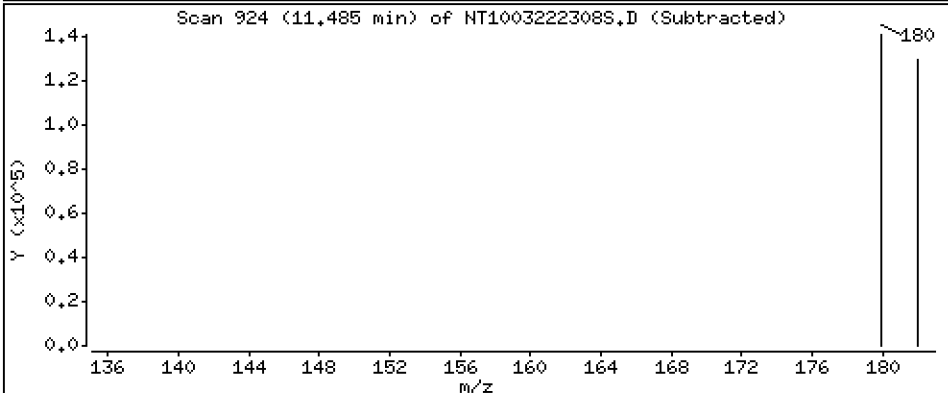
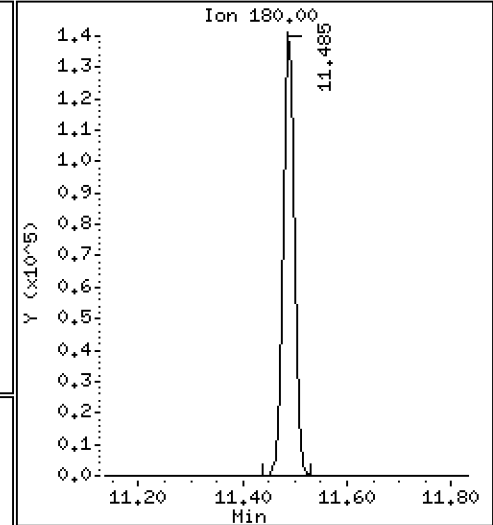
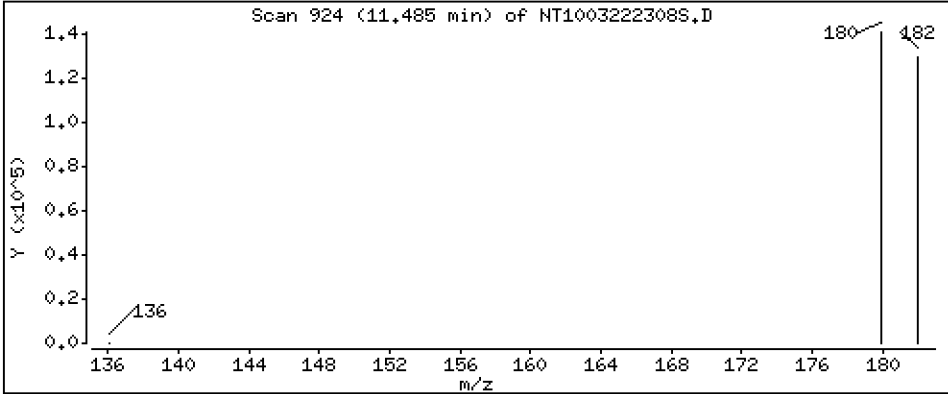
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

26 1,2,4-Trichlorobenzene

Concentration: 4.116 ug/L



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

Volume Injected (uL): 1.0

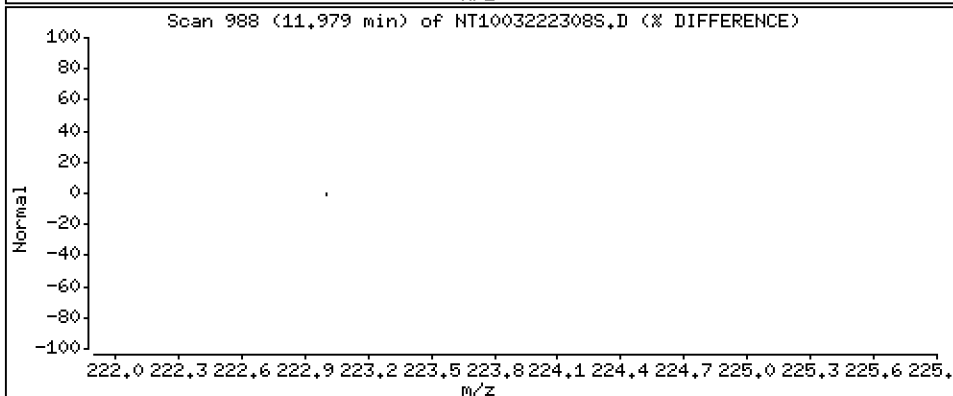
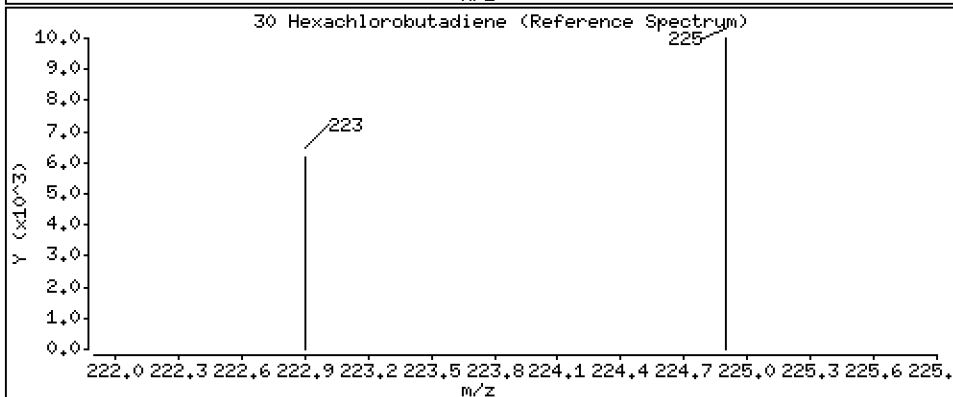
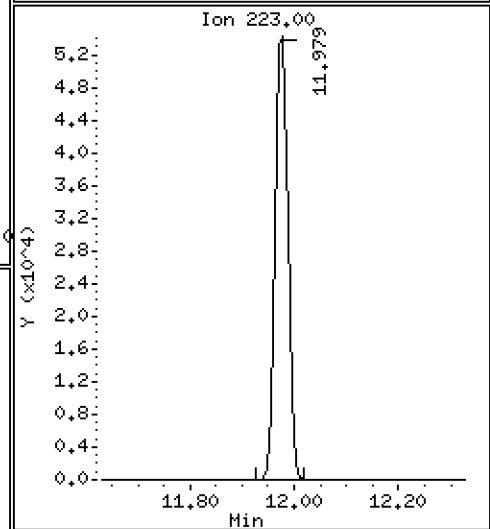
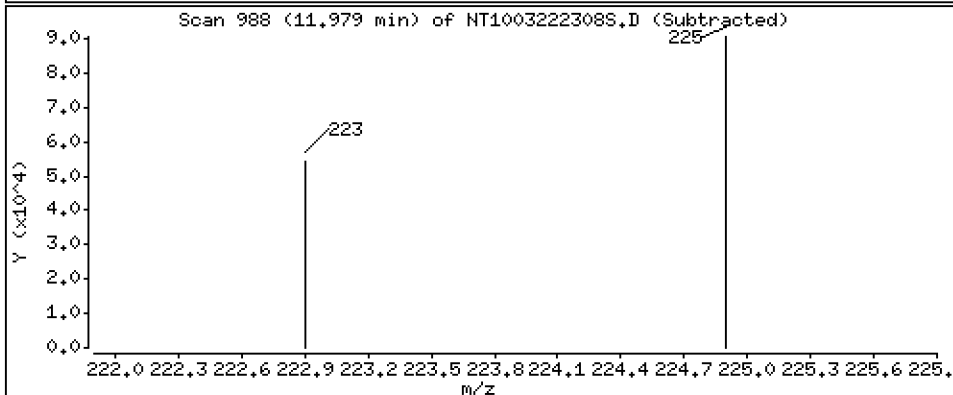
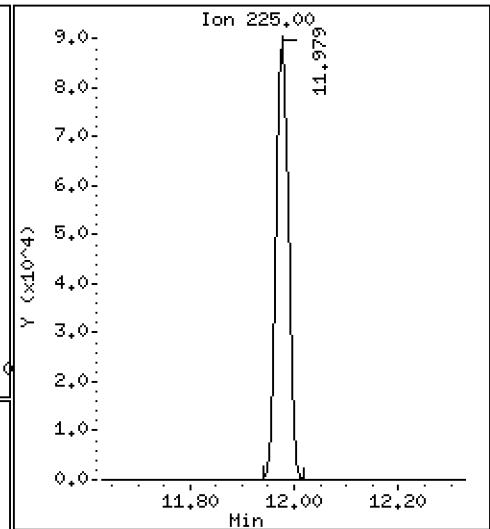
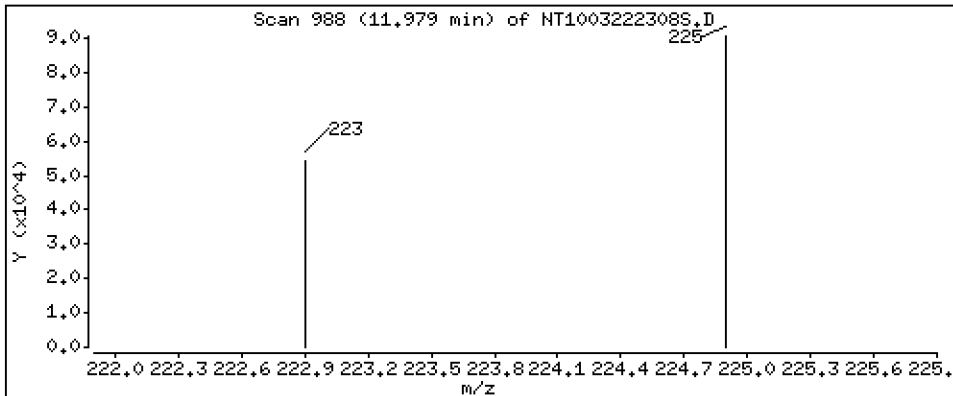
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 4,322 ug/L



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

Volume Injected (uL): 1.0

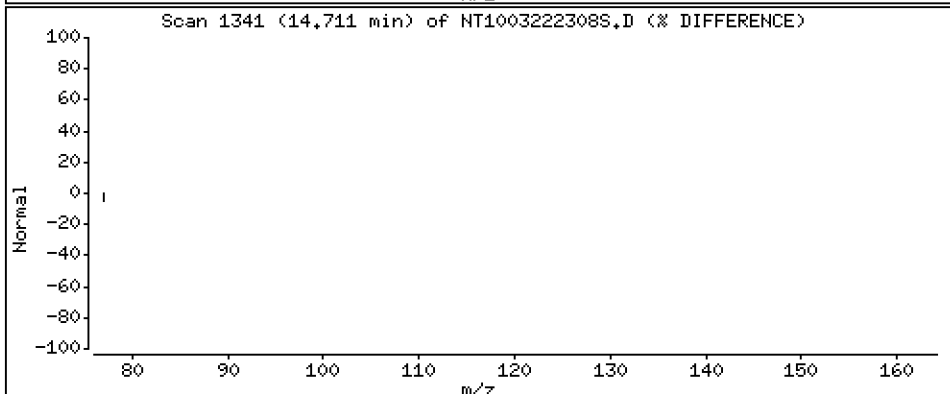
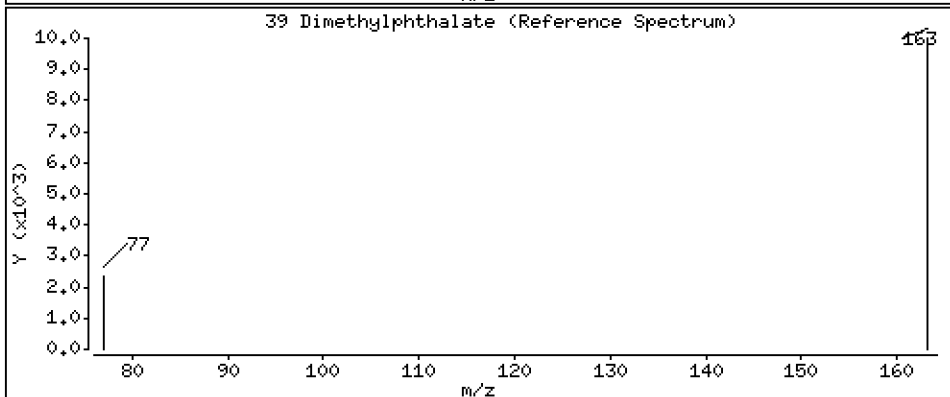
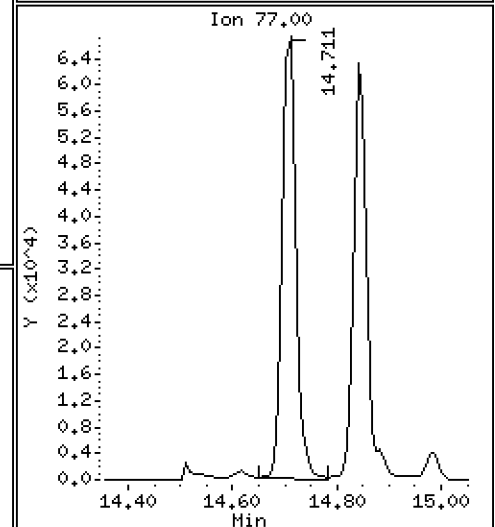
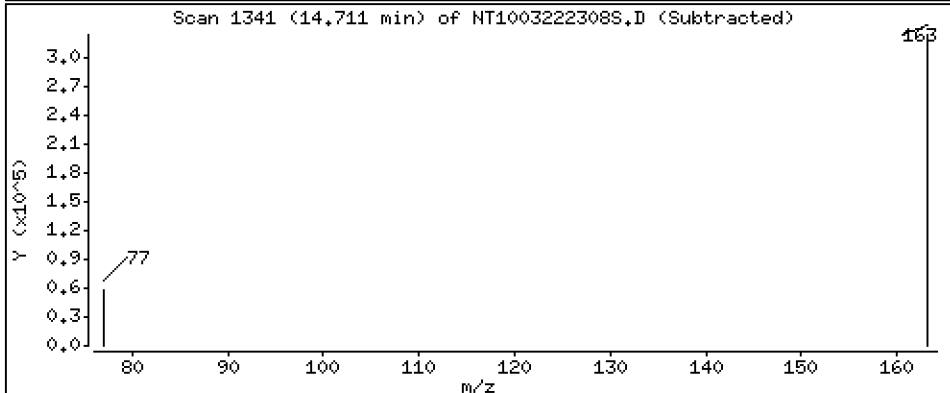
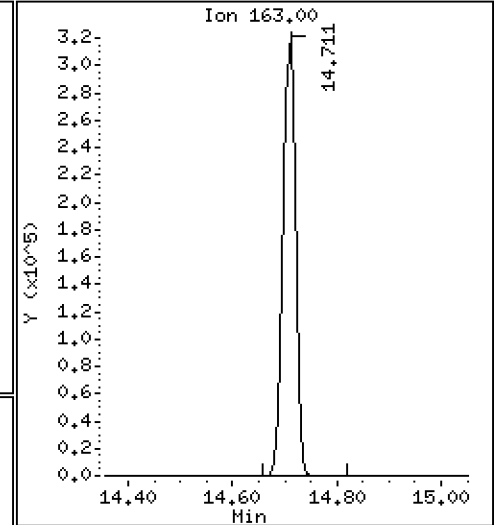
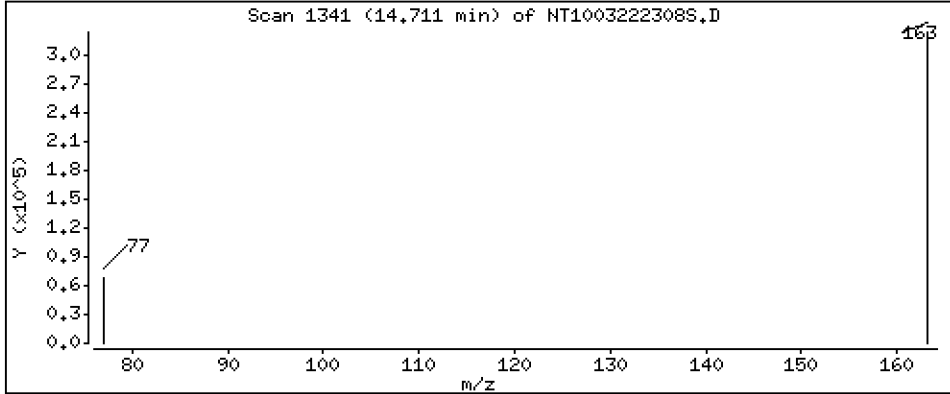
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 5,129 ug/L



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

Volume Injected (uL): 1.0

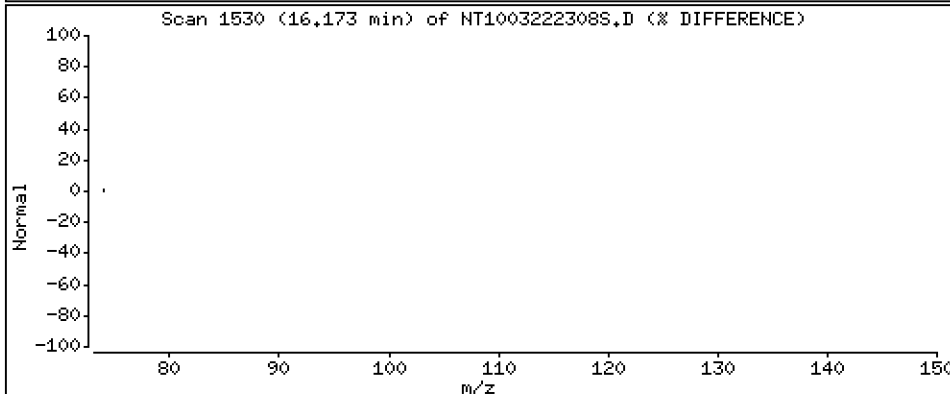
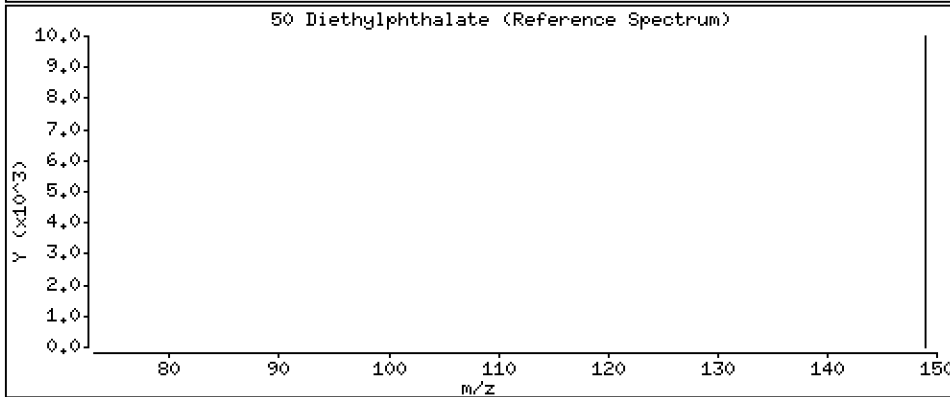
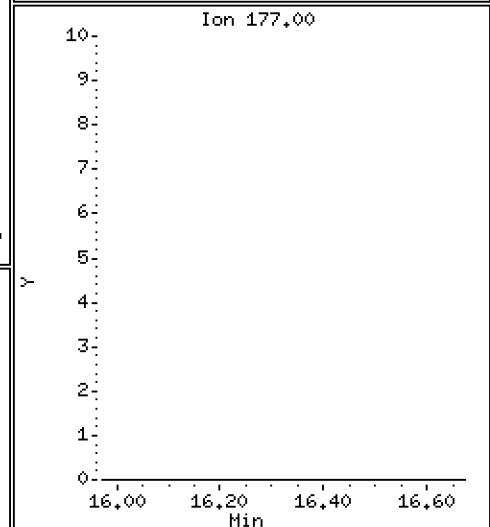
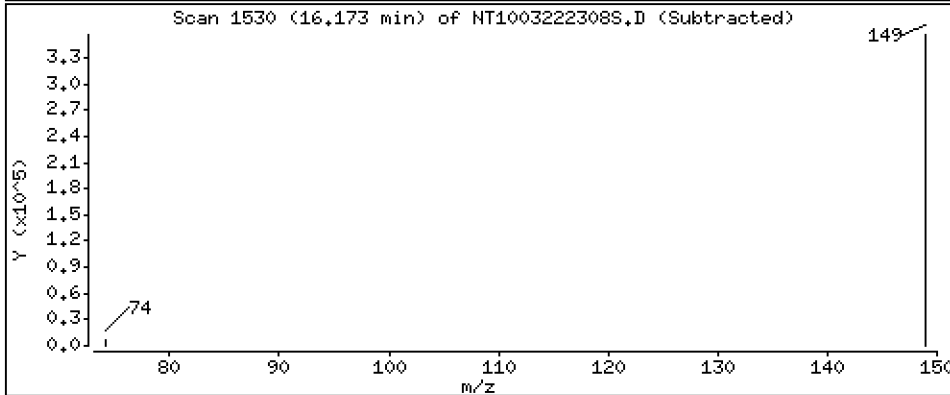
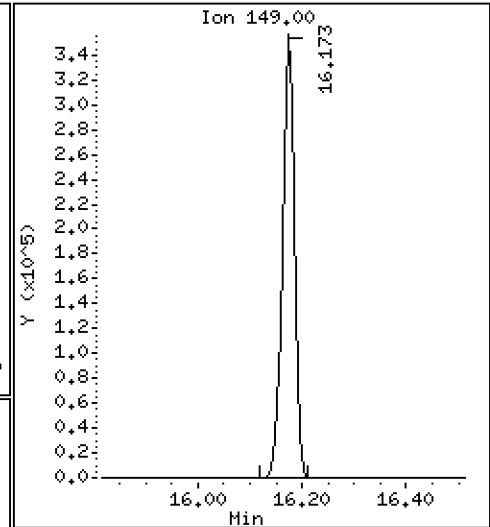
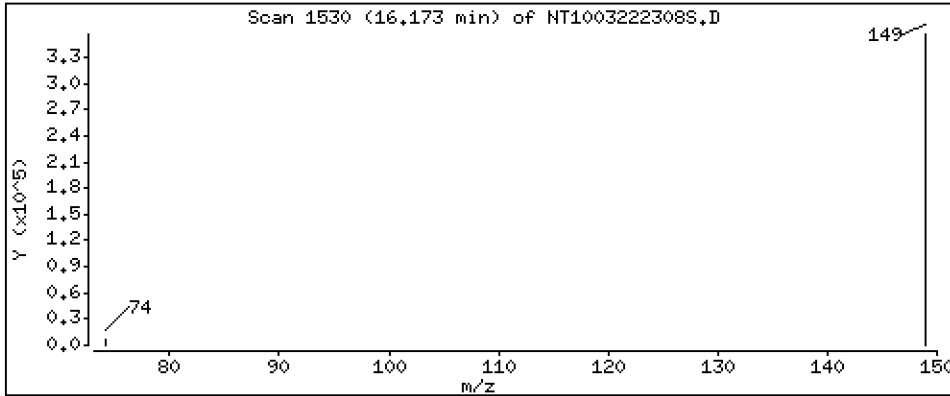
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

50 Diethylphthalate

Concentration: 5,641 ug/L



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

Volume Injected (uL): 1.0

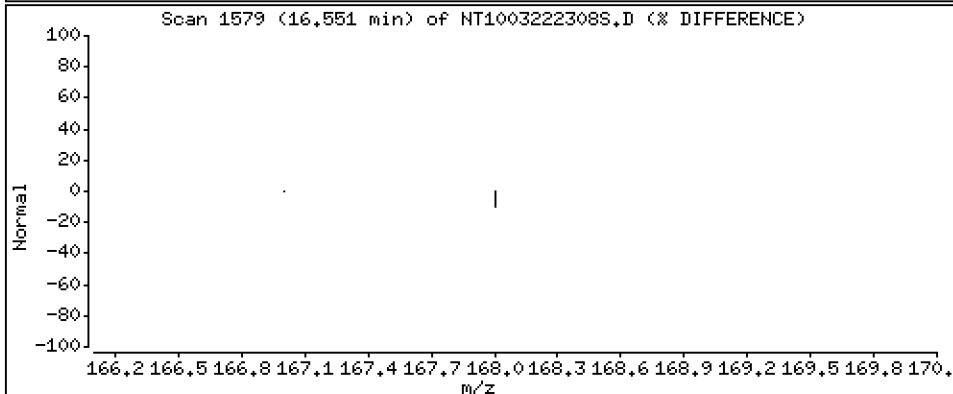
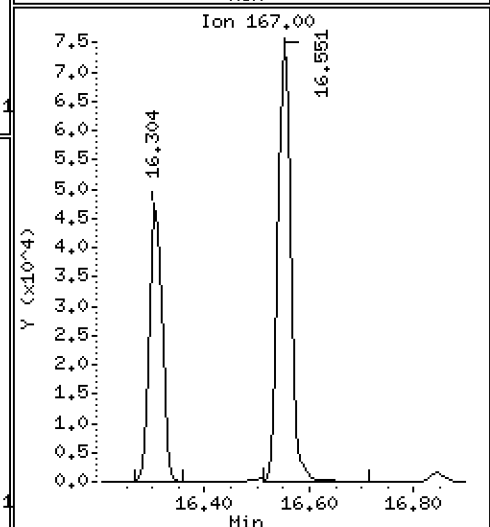
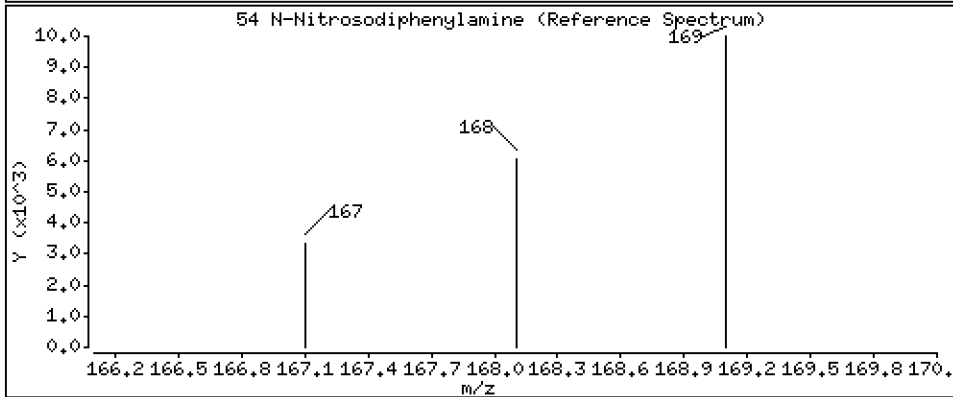
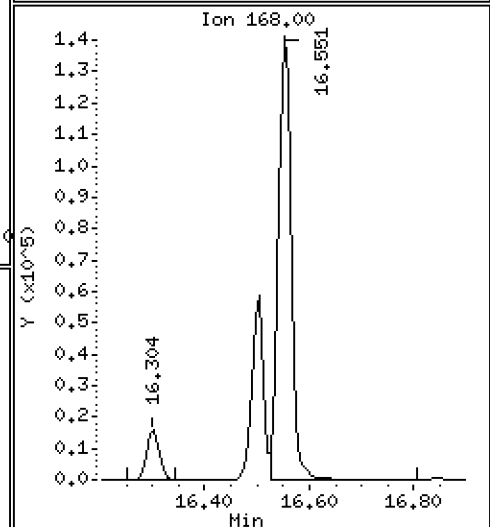
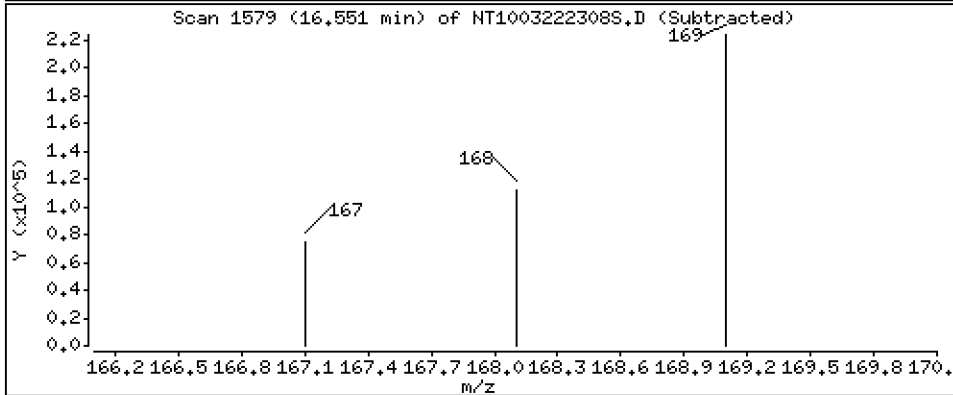
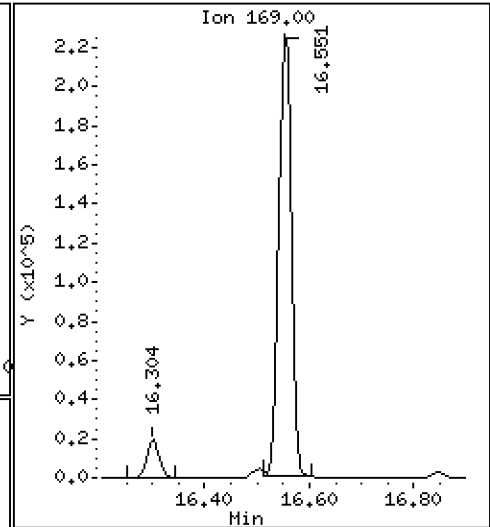
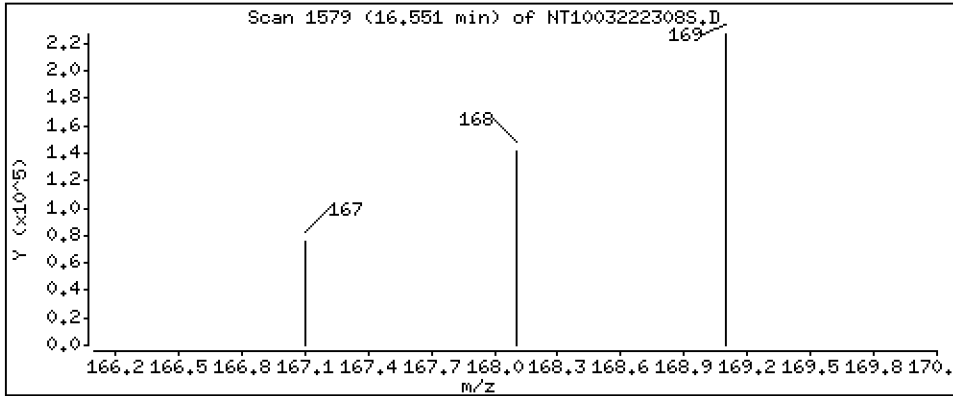
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

54 N-Nitrosodiphenylamine

Concentration: 4,353 ug/L



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

Volume Injected (uL): 1.0

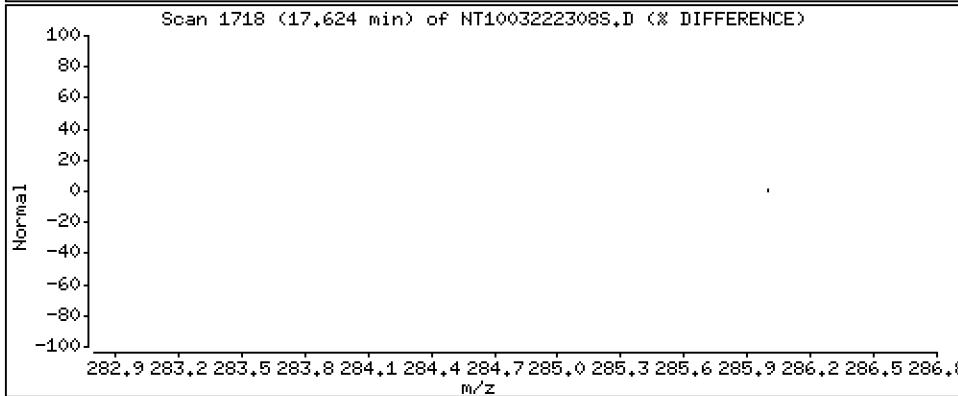
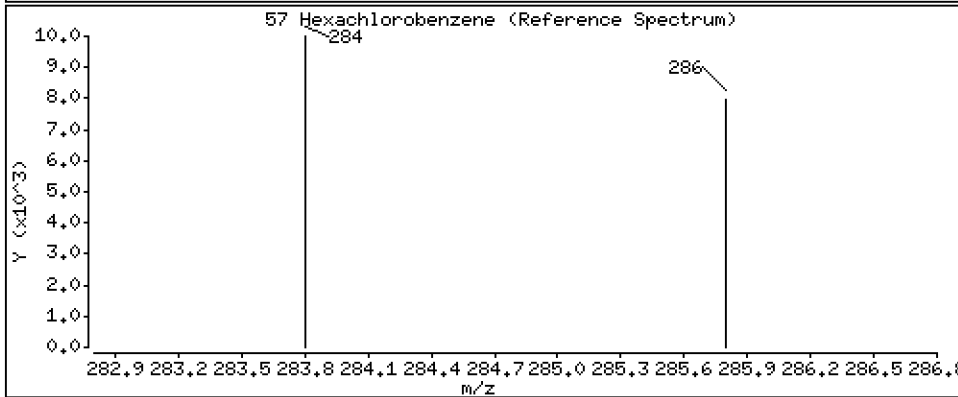
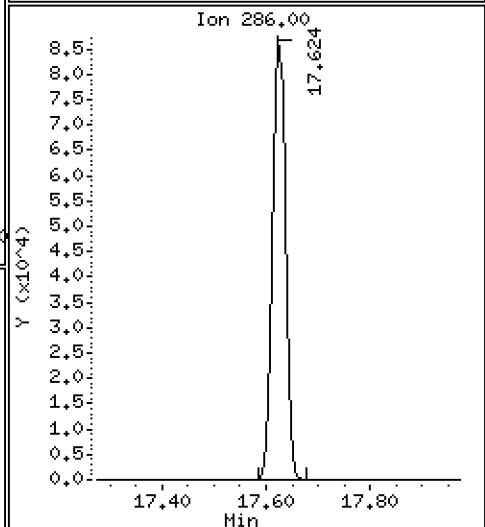
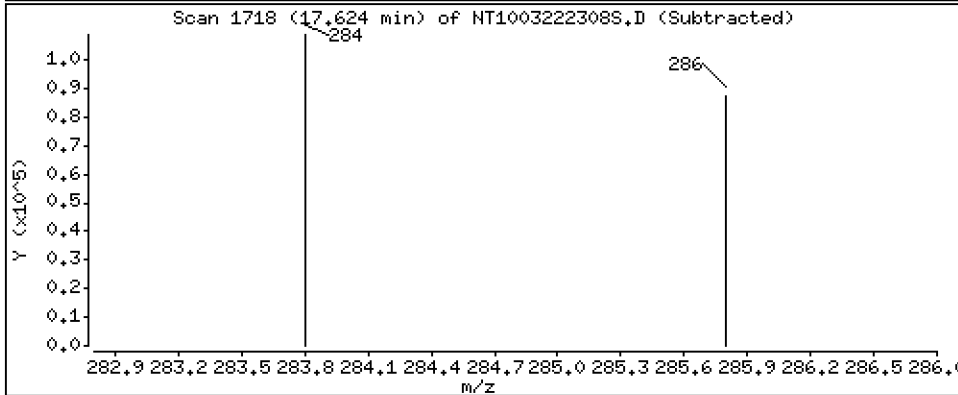
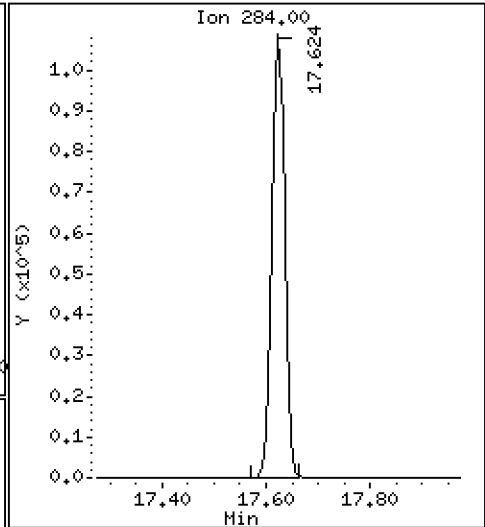
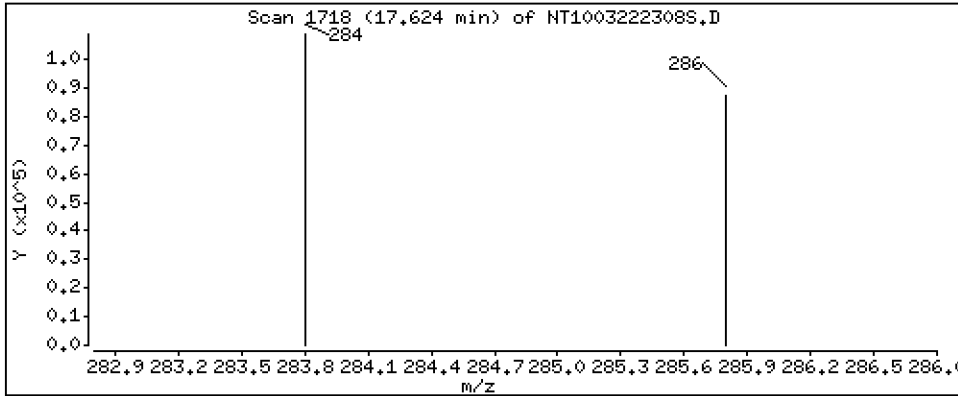
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

57 Hexachlorobenzene

Concentration: 4,696 ug/L



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

Volume Injected (uL): 1.0

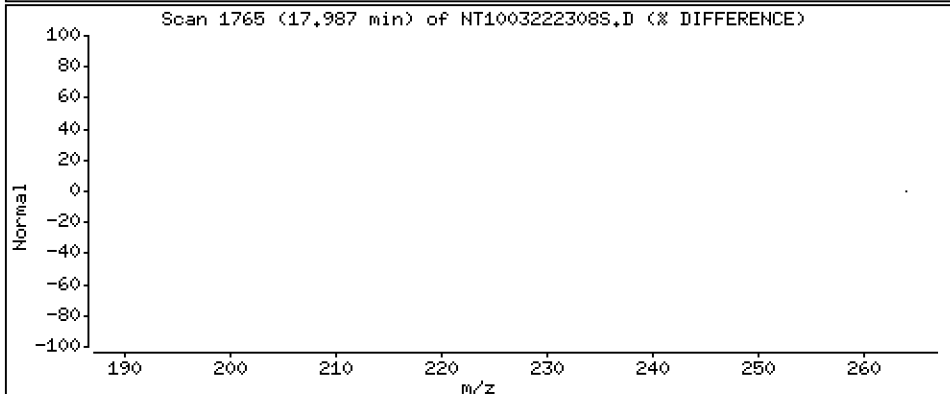
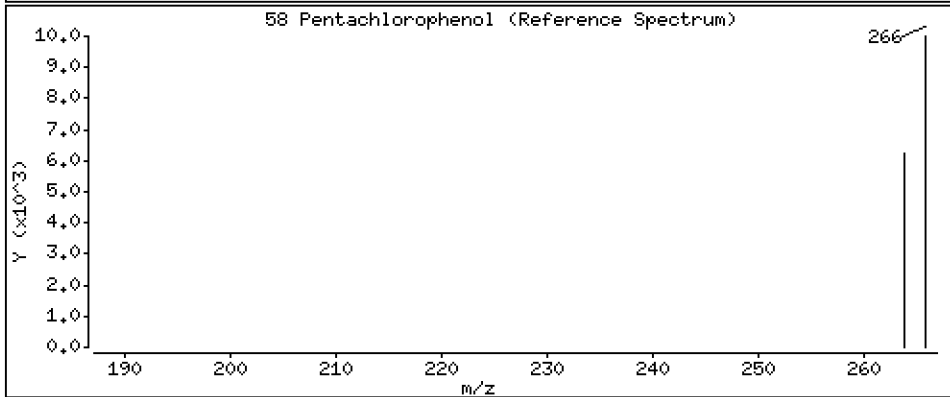
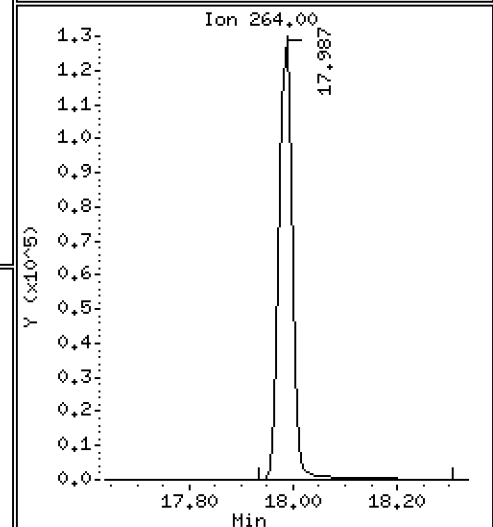
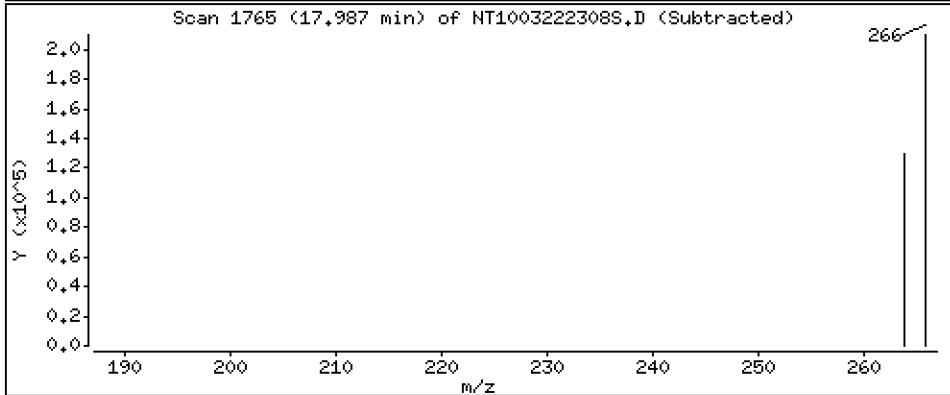
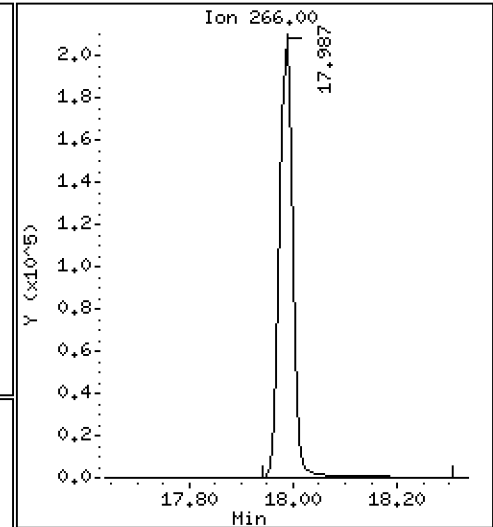
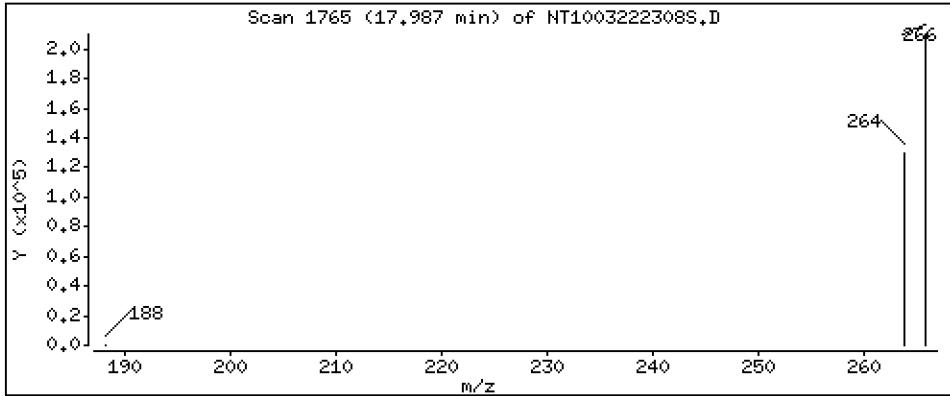
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 15,46 ug/L



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

Volume Injected (uL): 1.0

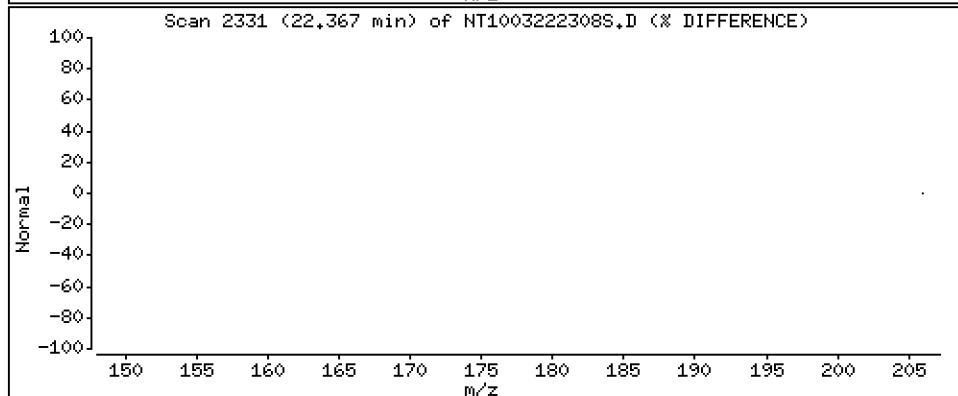
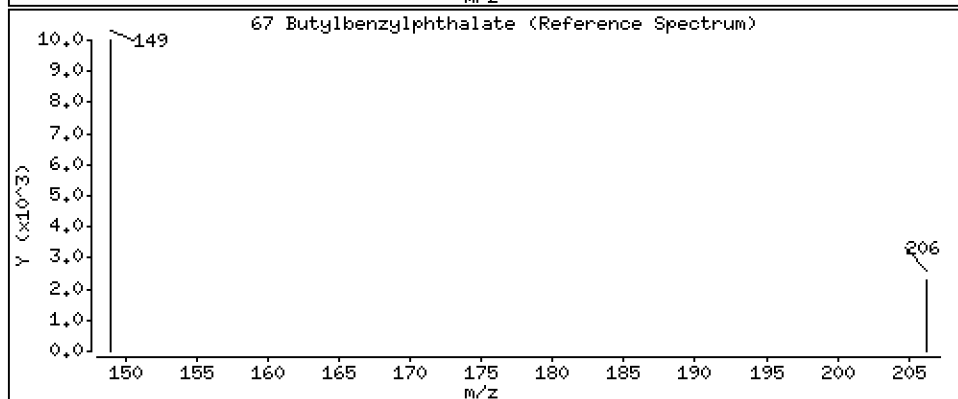
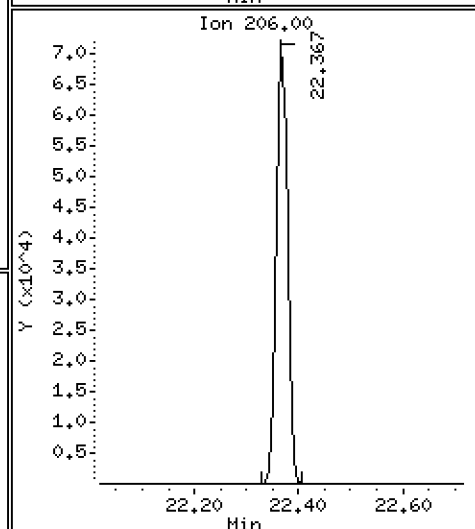
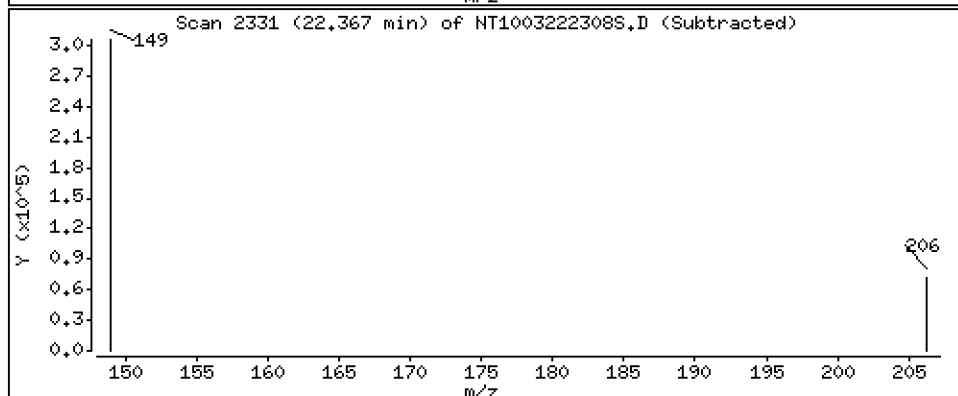
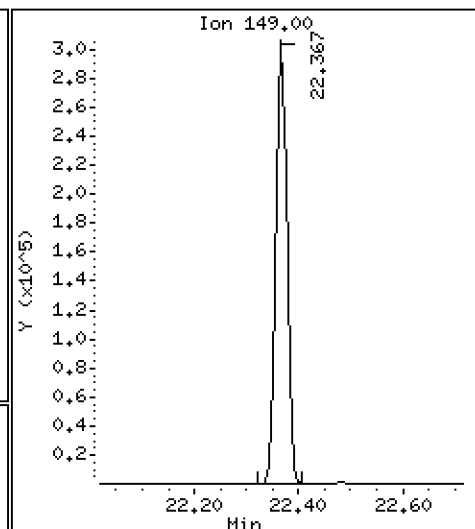
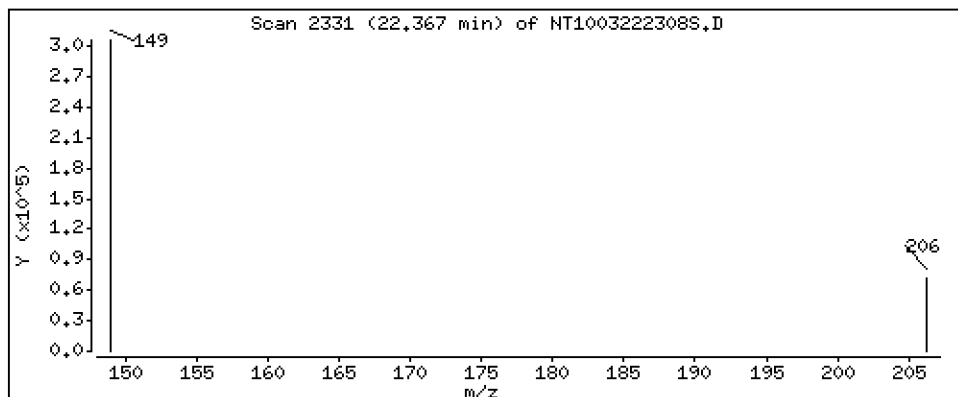
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 5,544 ug/L



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

Volume Injected (uL): 1.0

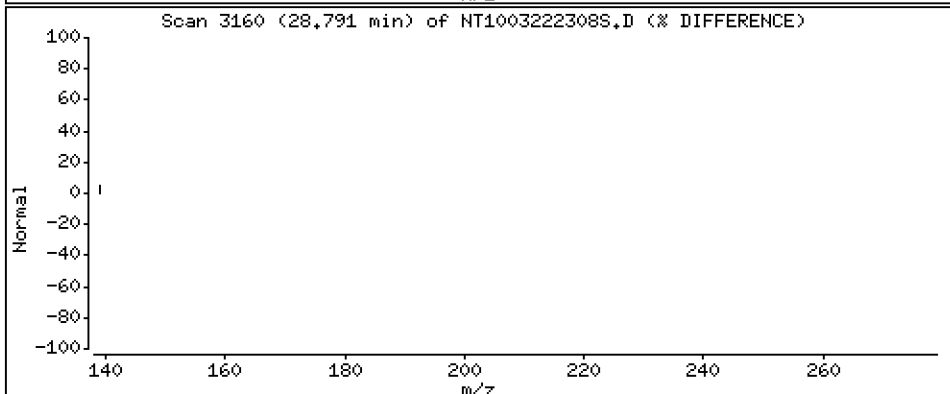
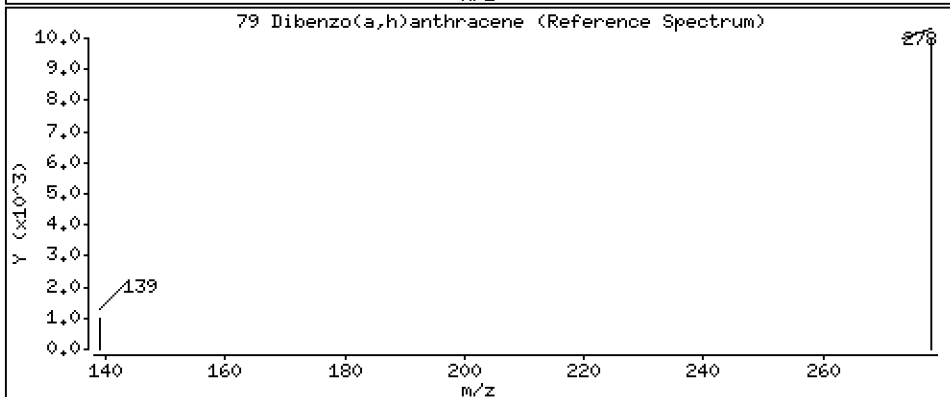
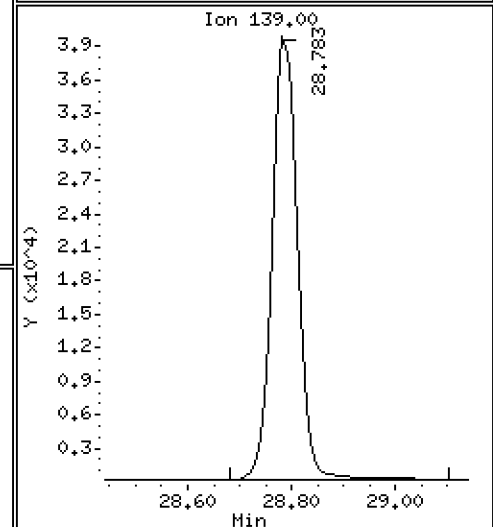
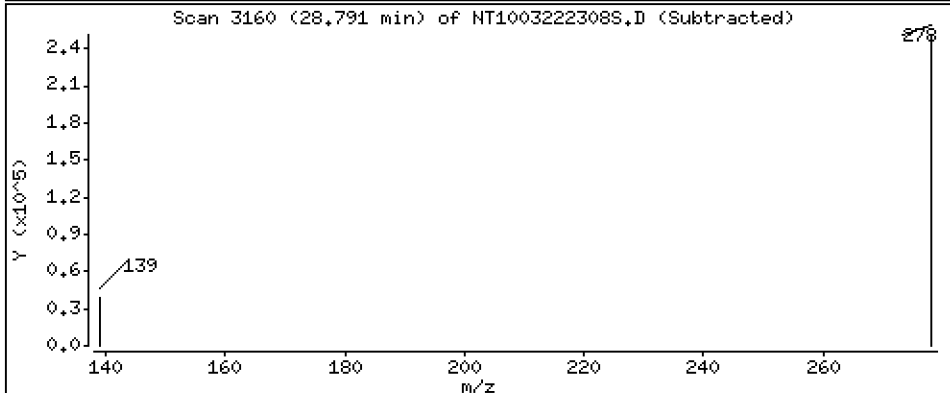
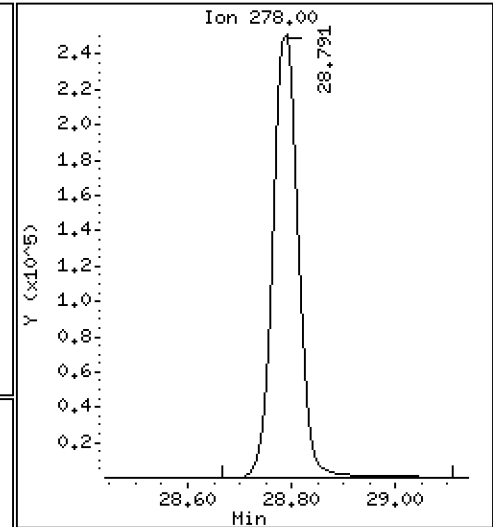
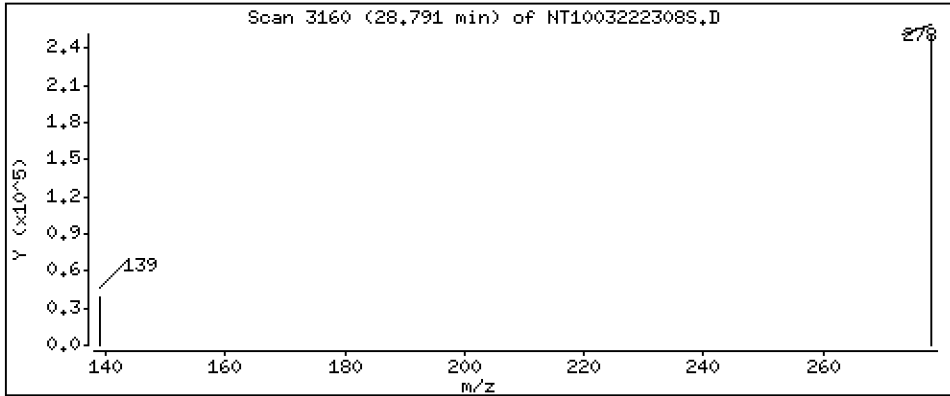
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 4,338 ug/L



Date : 22-MAR-2023 21:32

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-BSD1

Volume Injected (uL): 1.0

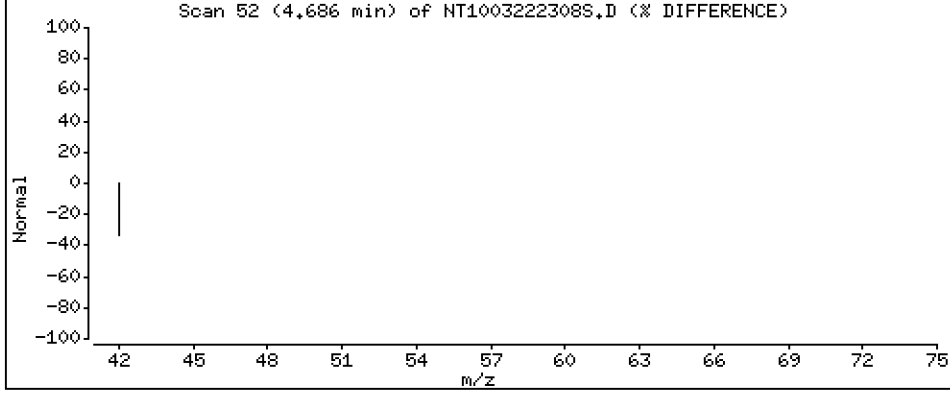
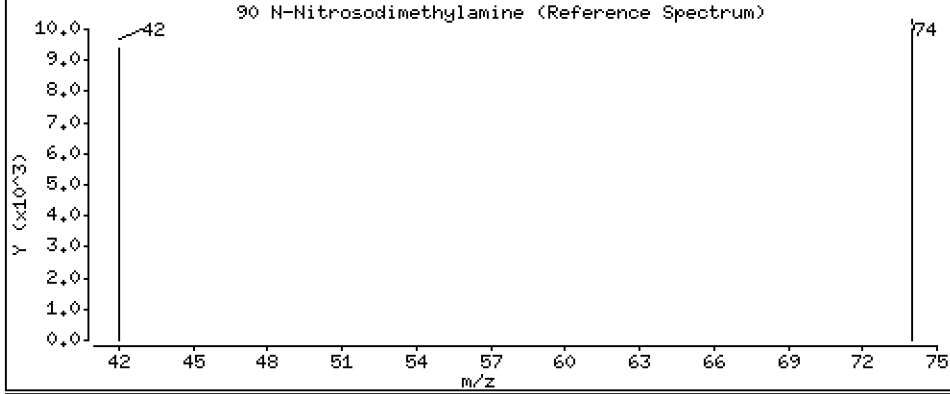
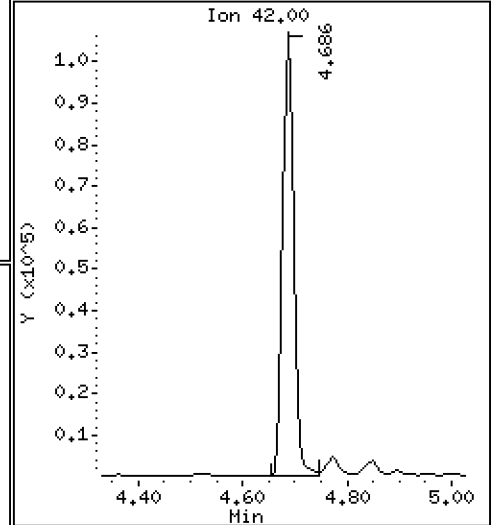
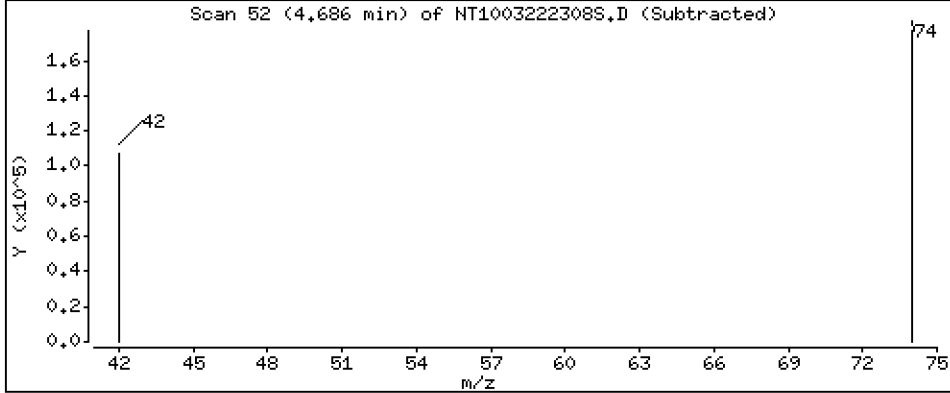
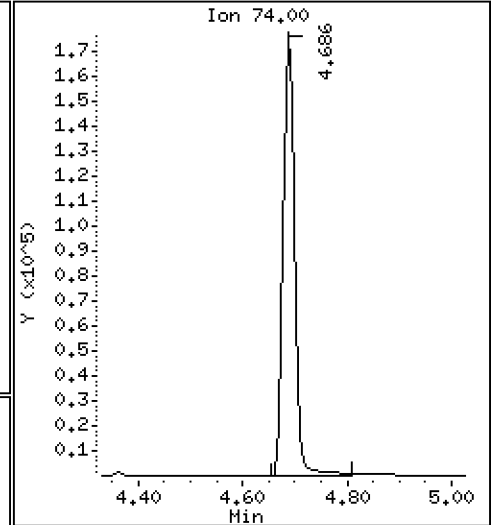
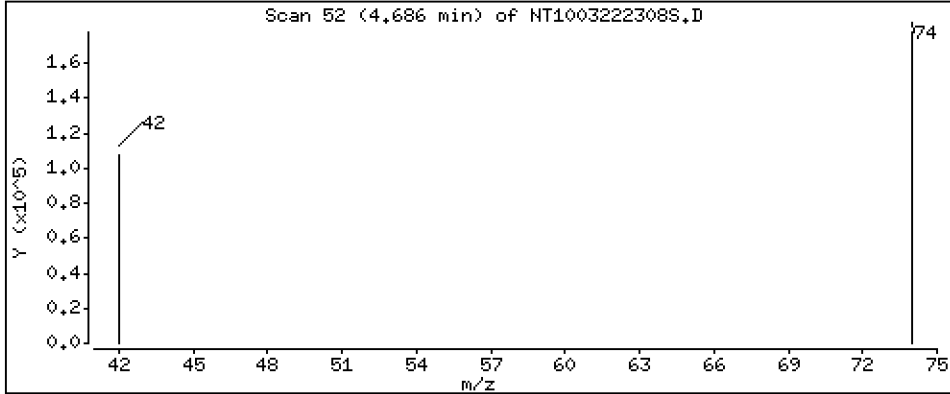
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

90 N-Nitrosodimethylamine

Concentration: 7,848 ug/L



ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230322.b\SIM.b\NT1003222308S.D
 Lab Smp Id: BLC0442-BSD2
 Inj Date : 22-MAR-2023 21:32 MS Autotune Date: 16-JAN-2023 17:42
 Operator : JGR Inst ID: nt10.i
 Smp Info : BLC0442-BSD1
 Misc Info :
 Comment :
 Method : \\target\share\chem3\nt10.i\20230322.b\SIM.b\SIMABN2.m
 Meth Date : 25-Mar-2023 13:23 yev Quant Type: ISTD
 Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D
 Als bottle: 8
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: PSDDA.sub
 Target Version: 4.14
 Processing Host: ORGDATA102

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

| Name | Value | Description |
|---------------|----------|---------------------------------|
| DF | 1.000 | Dilution Factor |
| Vo | 1000.000 | Volume of sample extracted (mL) |
| Vt | 1000.000 | Volume of final extract (uL) |
| Vi | 1.000 | Volume injected (uL) |
| Uf | 1.000 | ng unit correction factor |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT | SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|-------------------------------|-------|-----|--------|----------------|--------|----------|----------------|----------|
| | | | | | | | ON-COLUMN | FINAL |
| | MASS | | | | | | (ug/mL) | (ug/L) |
| \$ 1 2-Fluorophenol | 112 | | 6.864 | 6.856 (0.755) | | 312989 | 6.12890 | 6.129(R) |
| 3 Phenol | 94 | | 8.471 | 8.471 (0.932) | | 261141 | 3.72730 | 3.727 |
| 7 1,3-Dichlorobenzene | 146 | | 9.020 | 9.020 (0.992) | | 259441 | 3.95735 | 3.957 |
| * 8 1,4-Dichlorobenzene-d4 | 152 | | 9.090 | 9.090 (1.000) | | 168404 | 4.00000 | |
| 9 1,4-Dichlorobenzene | 146 | | 9.113 | 9.113 (1.003) | | 257209 | 4.06422 | 4.064 |
| 11 Benzyl alcohol | 79 | | 9.361 | 9.361 (1.030) | | 177250 | 4.36389 | 4.364 |
| 12 1,2-Dichlorobenzene | 146 | | 9.470 | 9.470 (1.042) | | 253853 | 4.07871 | 4.079 |
| 13 2-Methylphenol | 108 | | 9.586 | 9.586 (1.055) | | 178661 | 3.68020 | 3.680 |
| 15 4-Methylphenol | 108 | | 9.866 | 9.858 (1.085) | | 209428 | 4.15156 | 4.152 |
| 16 N-Nitroso-di-n-propylamine | 70 | | 9.920 | 9.920 (1.091) | | 143812 | 4.03113 | 4.031 |
| 22 2,4-Dimethylphenol | 107 | | 10.897 | 10.897 (0.941) | | 297257 | 5.57216 | 5.572 |
| 24 Benzoic acid | 105 | | 11.143 | 11.025 (0.963) | | 1028113 | 30.4278 | 30.43 |
| 26 1,2,4-Trichlorobenzene | 180 | | 11.485 | 11.485 (0.992) | | 220874 | 4.11576 | 4.116 |
| * 27 Naphthalene-d8 | 136 | | 11.577 | 11.569 (1.000) | | 617172 | 4.00000 | |
| 30 Hexachlorobutadiene | 225 | | 11.979 | 11.979 (1.035) | | 141030 | 4.32245 | 4.322 |
| 39 Dimethylphthalate | 163 | | 14.711 | 14.703 (0.968) | | 508655 | 5.12946 | 5.129 |
| * 42 Acenaphthene-d10 | 162 | | 15.198 | 15.198 (1.000) | | 314236 | 4.00000 | |
| 50 Diethylphthalate | 149 | | 16.172 | 16.165 (1.064) | | 579513 | 5.64118 | 5.641 |
| 54 N-Nitrosodiphenylamine | 169 | | 16.550 | 16.550 (0.907) | | 363316 | 4.35308 | 4.353 |
| 57 Hexachlorobenzene | 284 | | 17.623 | 17.623 (0.966) | | 175441 | 4.69566 | 4.696 |

| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|---------------------------|-----------|--------|--------|---------|----------|----------------------|------------------|
| | | | | | | ON-COLUMN (ug/mL) | FINAL (ug/L) |
| 58 Pentachlorophenol | 266 | 17.987 | 17.987 | (0.986) | 353096 | 15.4555 | 15.46 |
| * 59 Phenanthrene-d10 | 188 | 18.250 | 18.250 | (1.000) | 622069 | 4.00000 | |
| \$ 66 Terphenyl-d14 | 244 | 21.422 | 21.422 | (0.918) | 413228 | 4.70693 | 4.707 (R) |
| 67 Butylbenzylphthalate | 149 | 22.367 | 22.367 | (0.958) | 419508 | 5.54409 | 5.544 |
| * 69 Chrysene-d12 | 240 | 23.343 | 23.343 | (1.000) | 538810 | 4.00000 | |
| * 77 Perylene-d12 | 264 | 26.029 | 26.029 | (1.000) | 608756 | 4.00000 | |
| 79 Dibenzo(a,h)anthracene | 278 | 28.790 | 28.790 | (1.106) | 845550 | 4.33842 | 4.338 |
| 90 N-Nitrosodimethylamine | 74 | 4.686 | 4.678 | (0.516) | 254204 | 7.84847 | 7.848 |

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i
 Lab File ID: NT1003222308S.D
 Lab Smp Id: BLC0442-BSD2
 Analysis Type: SV
 Quant Type: ISTD
 Operator: JGR
 Method File: \\target\share\chem3\nt10.i\20230322.b\SIM.b\SIMABN2.m
 Misc Info:

Calibration Date: 22-MAR-2023
 Calibration Time: 18:20
 Level: LOW
 Sample Type: AIR

Test Mode:
 Use Last Continuing Calibrator.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|------------|---------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 135191 | 67596 | 270382 | 168404 | 24.57 |
| 27 Naphthalene-d8 | 487226 | 243613 | 974452 | 617172 | 26.67 |
| 42 Acenaphthene-d10 | 246588 | 123294 | 493176 | 314236 | 27.43 |
| 59 Phenanthrene-d10 | 479352 | 239676 | 958704 | 622069 | 29.77 |
| 69 Chrysene-d12 | 439791 | 219896 | 879582 | 538810 | 22.52 |
| 77 Perylene-d12 | 505700 | 252850 | 1011400 | 608756 | 20.38 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 9.09 | 8.59 | 9.59 | 9.09 | -0.00 |
| 27 Naphthalene-d8 | 11.57 | 11.07 | 12.07 | 11.58 | 0.07 |
| 42 Acenaphthene-d10 | 15.20 | 14.70 | 15.70 | 15.20 | -0.00 |
| 59 Phenanthrene-d10 | 18.25 | 17.75 | 18.75 | 18.25 | -0.00 |
| 69 Chrysene-d12 | 23.34 | 22.84 | 23.84 | 23.34 | -0.00 |
| 77 Perylene-d12 | 26.03 | 25.53 | 26.53 | 26.03 | -0.00 |

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

REVIEW SUMMARY FOR FILE - NT1003222308S.D

Lab ID: BLC0442-BSD2

nt10.i, 20230322.b\SIM.b\SIMABN2.m, 22-MAR-2023 21:32

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT | CCV RRT | DELTA | COMPOUND |
|-------|---------|--------|--------------|
| 0.963 | 0.953 | 0.0096 | Benzoic acid |

RRT check based on Ccal File: SIM.b/NT1003222303S.D

On Column LOD for nt10.i, SIM.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

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



STANDARD REFERENCE MATERIAL RECOVERY

EPA 8270E-SIM

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Matrix: Solid

Laboratory ID: BLC0442-SRM2

Batch: BLC0442

Initial/Final: 1 g / 1 mL

Preparation: EPA 3546 (Microwave)

Analyzed: 03/22/2023 22:10

Standard ID: K003477

Expires: 01/31/2024

Standard Lot#: CRM 143 (LRAC8918)

Description: CRM 143 BNAs - Sandy Loam

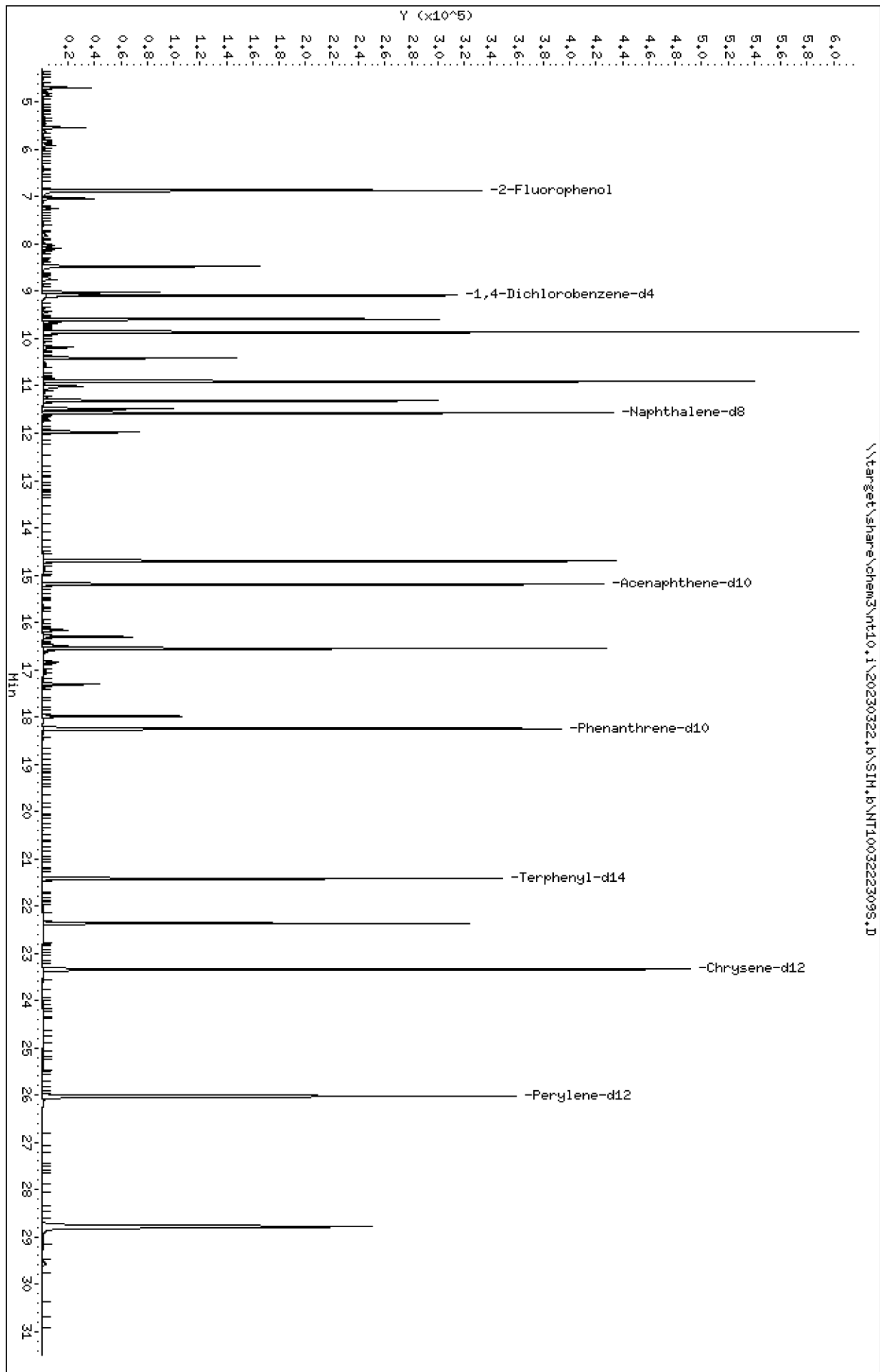
| ANALYTE | TRUE (ug/kg wet) | FOUND (ug/kg wet) | MDL | MRL | Q | SRM % REC. | QC LIMITS REC. |
|------------------------|---------------------|----------------------|------|------|---|------------------|----------------------|
| 2,4-Dimethylphenol | 6357.0 | 5900 | 21.7 | 200 | | 92.7 | 0 - 220 |
| 1,2,4-Trichlorobenzene | 1477.0 | 1280 | 26.8 | 50.0 | | 86.8 | 10 - 193 |
| N-Nitrosodiphenylamine | 2854.0 | 3640 | 13.1 | 50.0 | | 128 | 40 - 160 |
| Pentachlorophenol | 3411.0 | 4970 | 21.3 | 200 | | 146 | 10 - 206 |

* Values outside of QC limits

Data File: \\target\share\chem3\nt10.i\20230322.16\SIM.B\NT100322309S.D
Date: 22-MAR-2023 22:10
Client ID:
Sample Info: BLC0442-SRM1
Volume Injected (uL): 1.0
Column phase: ZB-5msi

Instrument: nt10.i
Operator: JGR
Column diameter: 0.25

\\target\share\chem3\nt10.i\20230322.16\SIM.B\NT100322309S.D



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

Volume Injected (uL): 1.0

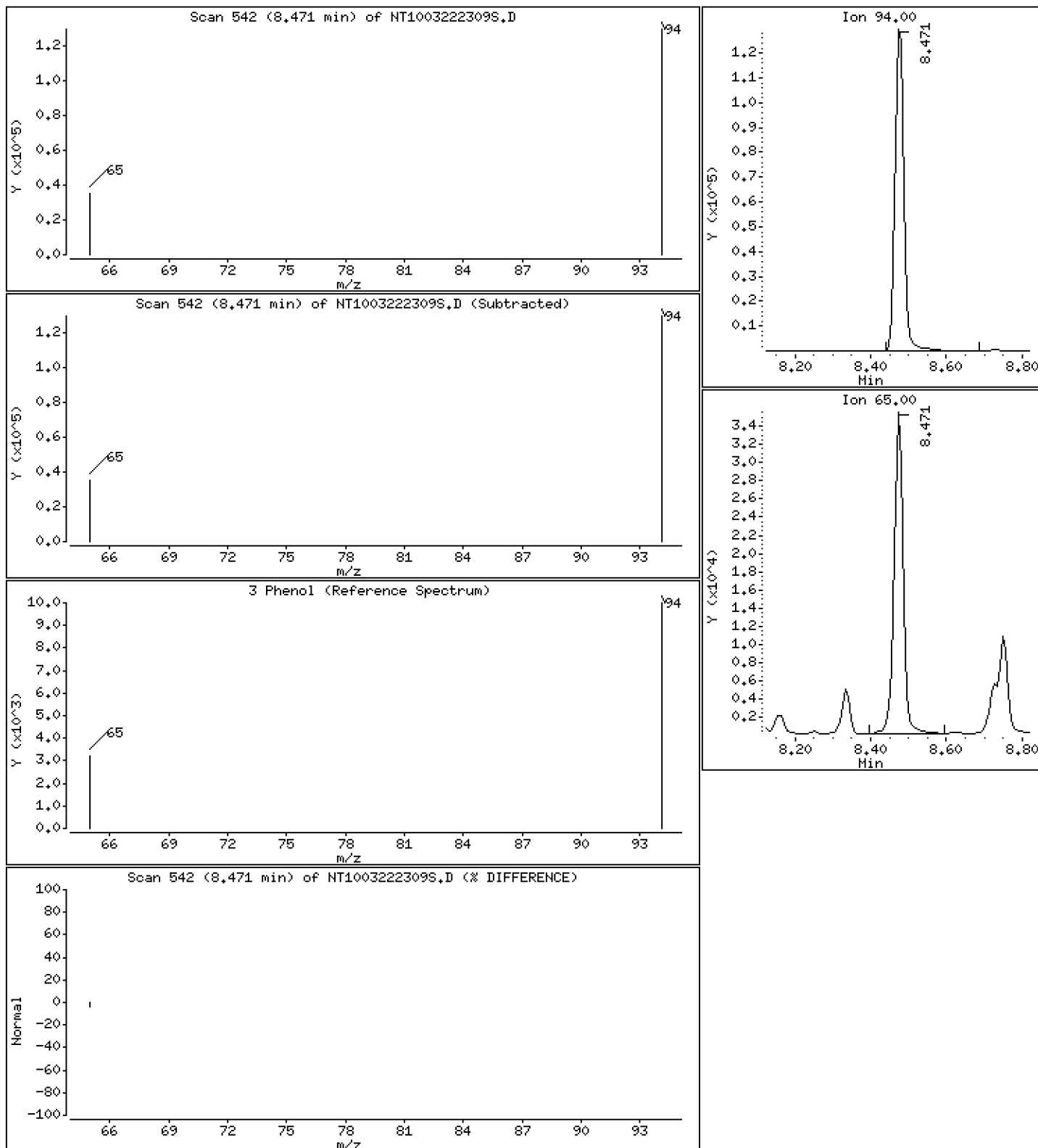
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

3 Phenol

Concentration: 2,470 ug/L



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

Volume Injected (uL): 1.0

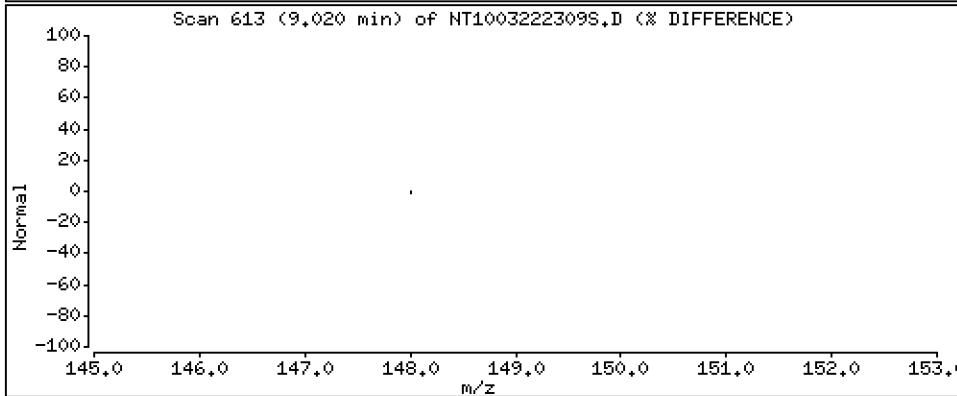
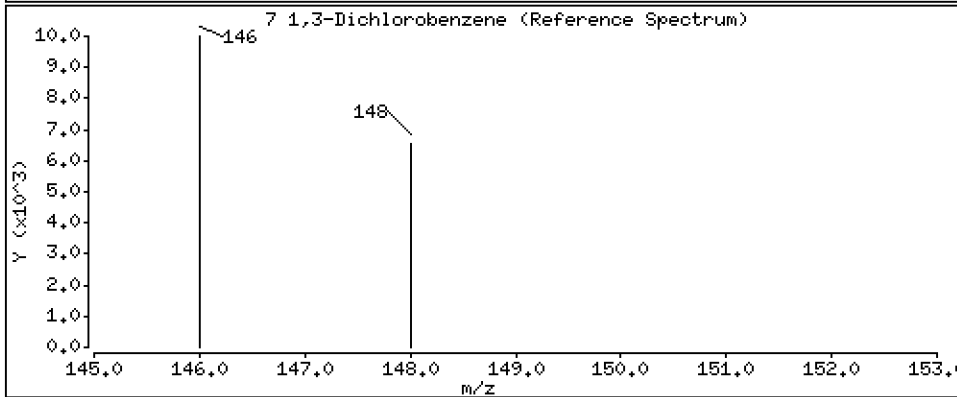
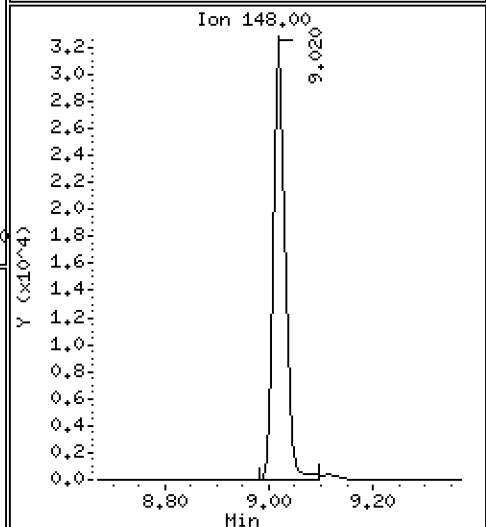
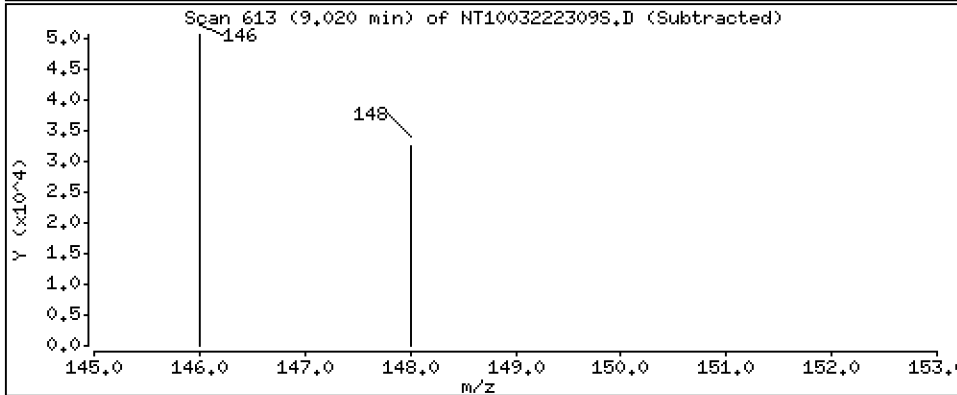
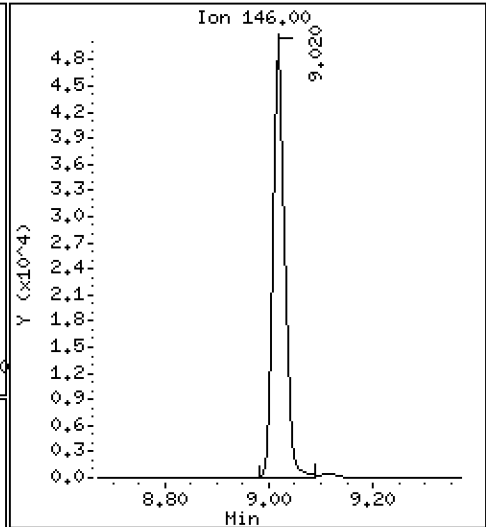
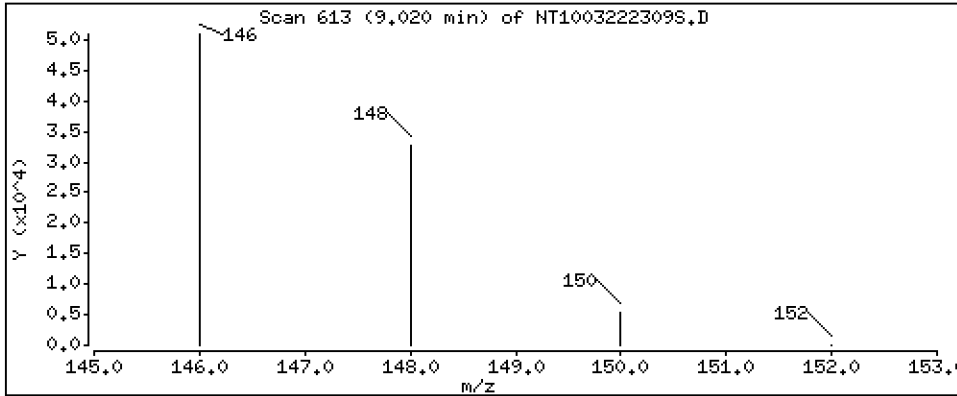
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

7 1,3-Dichlorobenzene

Concentration: 1.010 ug/L



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

Volume Injected (uL): 1.0

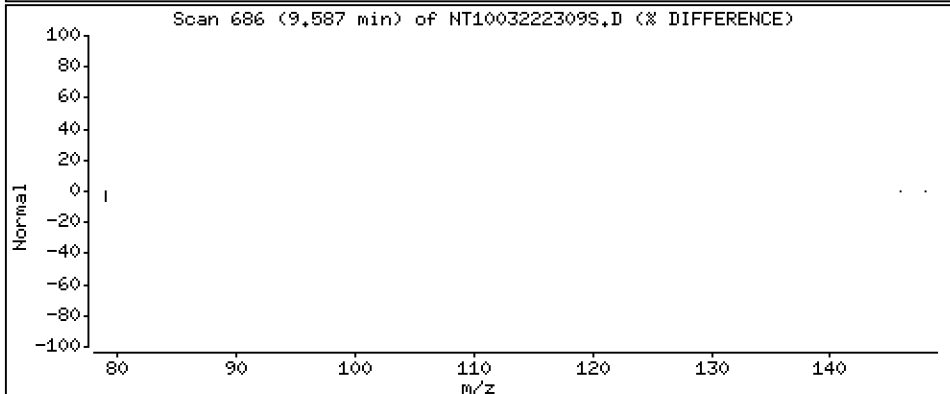
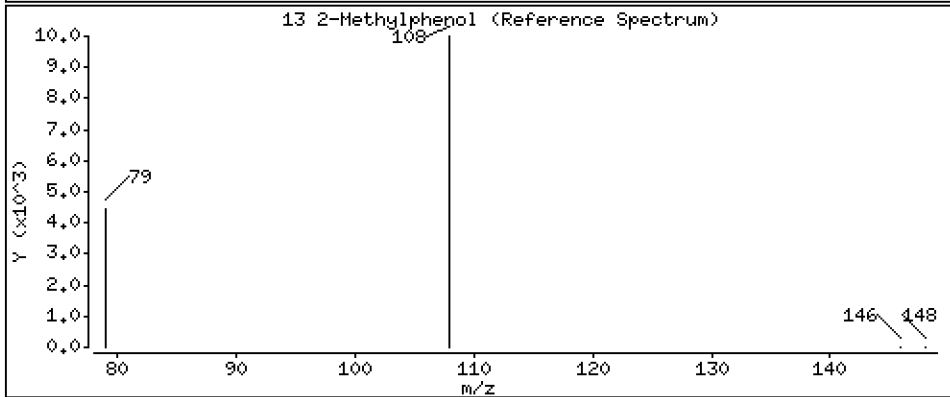
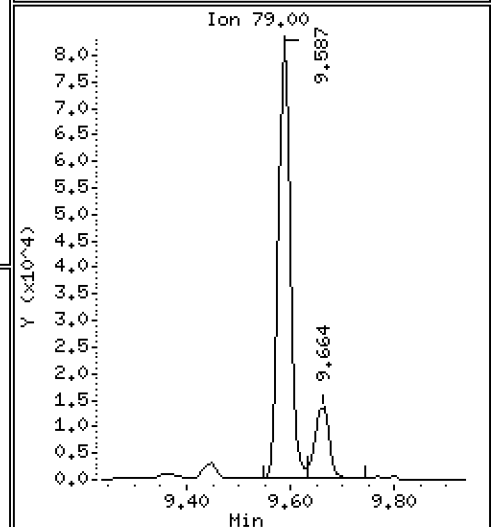
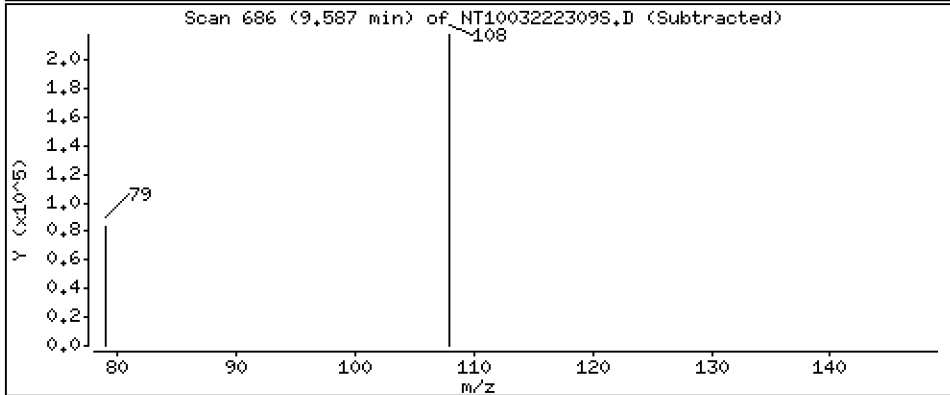
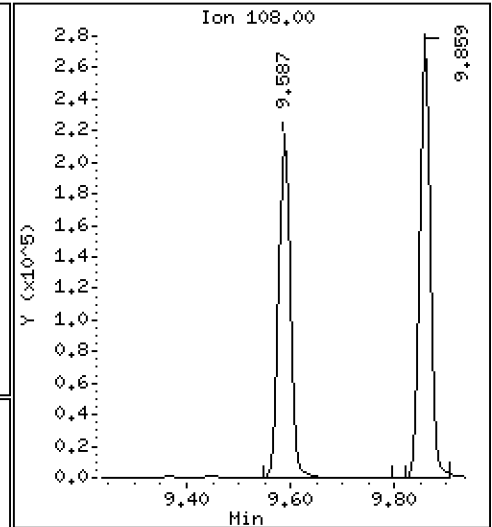
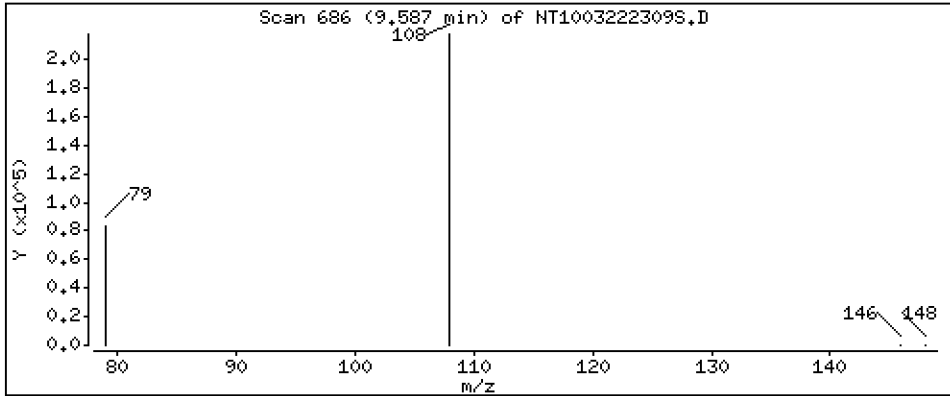
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

13 2-Methylphenol

Concentration: 5.690 ug/L



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

Volume Injected (uL): 1.0

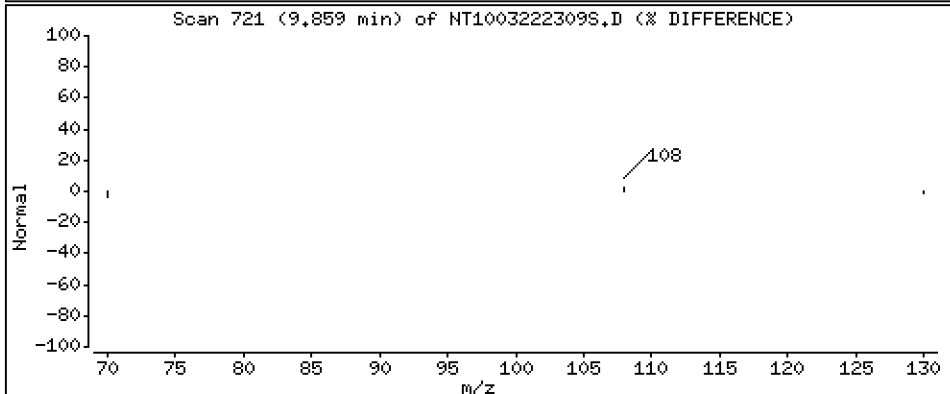
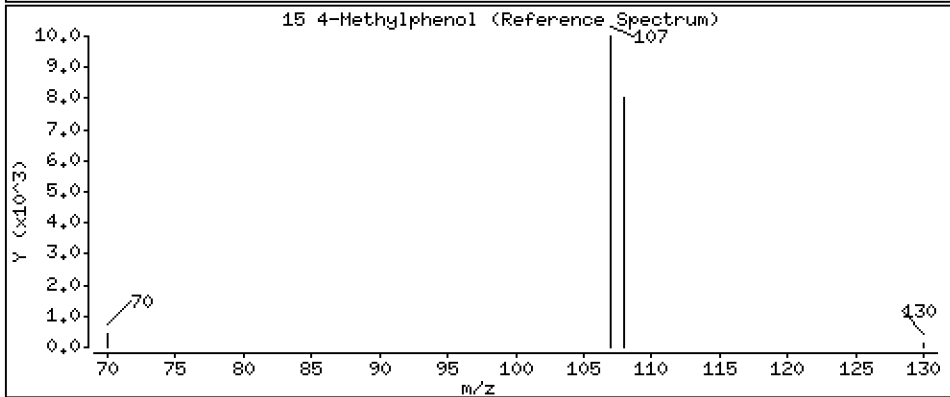
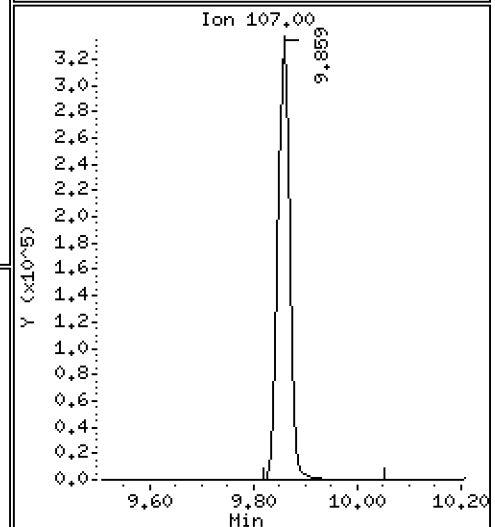
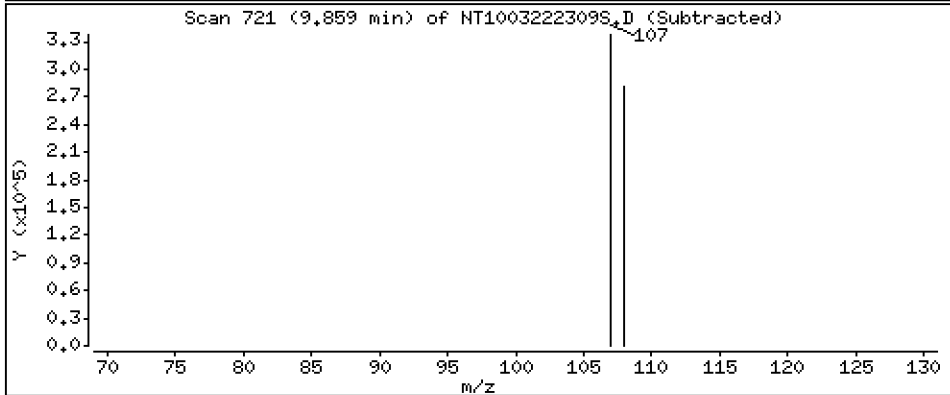
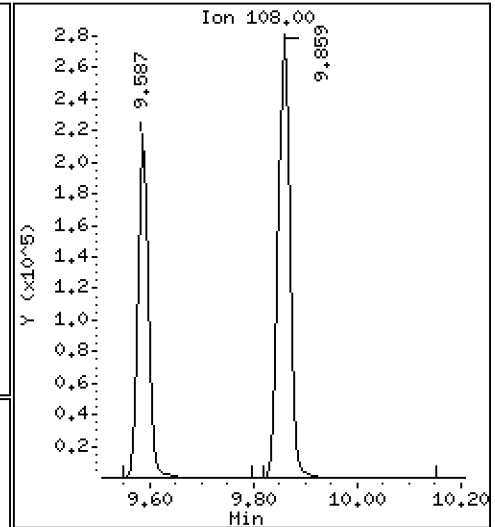
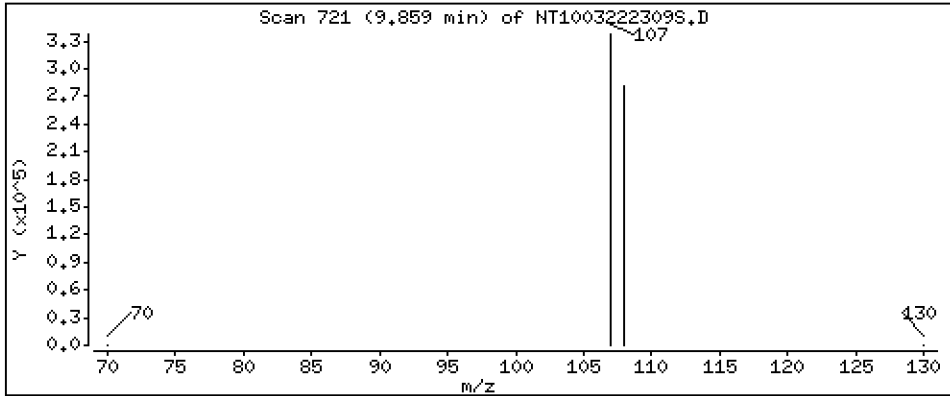
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 7.137 ug/L



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

Volume Injected (uL): 1.0

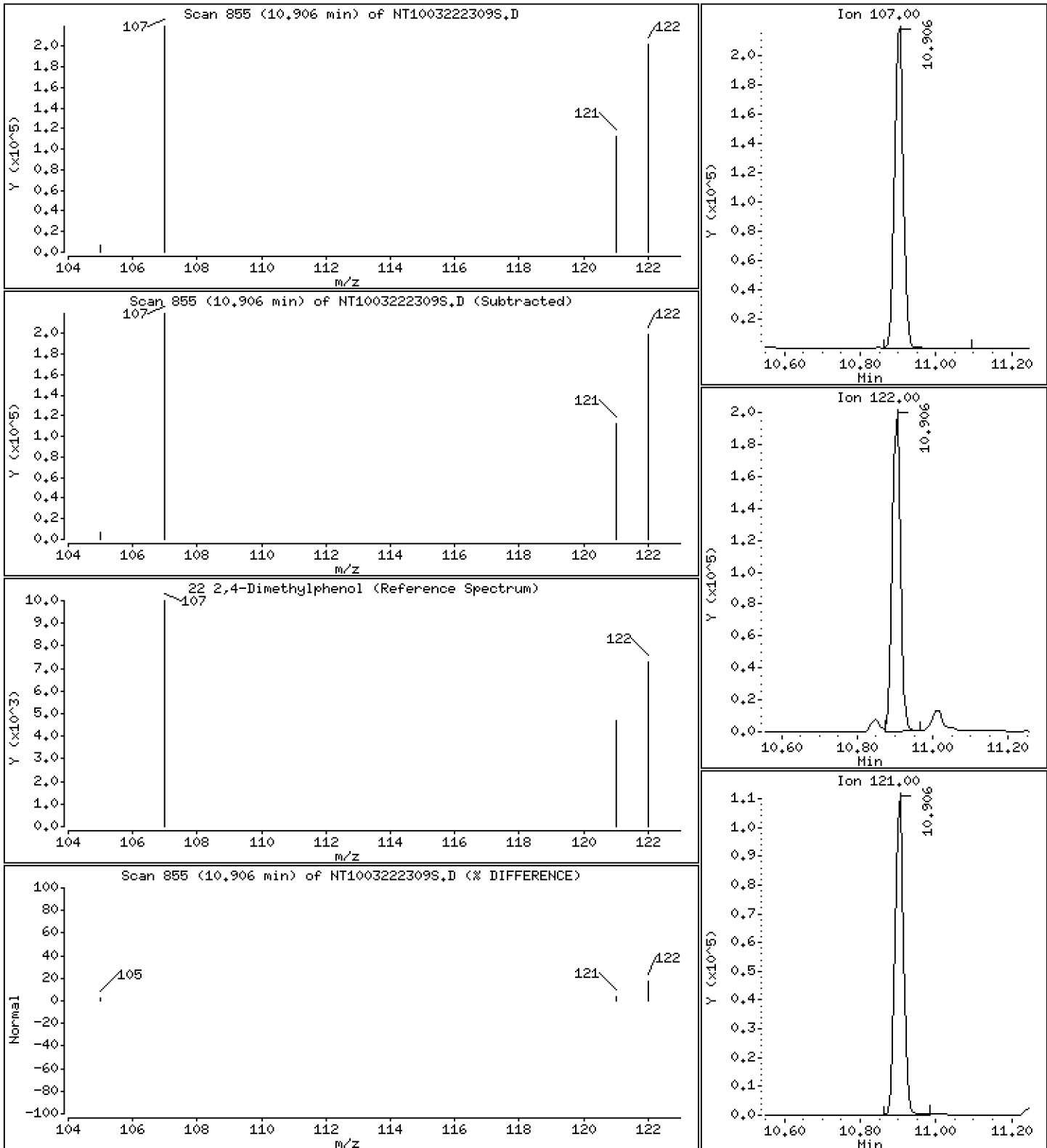
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

22 2,4-Dimethylphenol

Concentration: 5.896 ug/L



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

Volume Injected (uL): 1.0

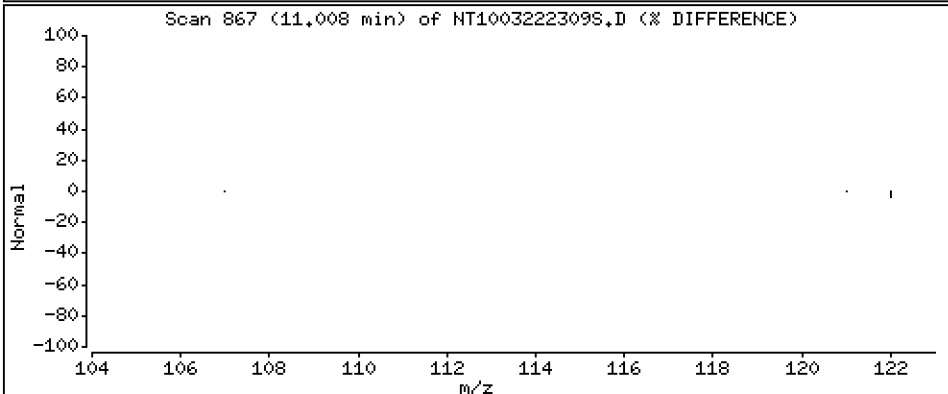
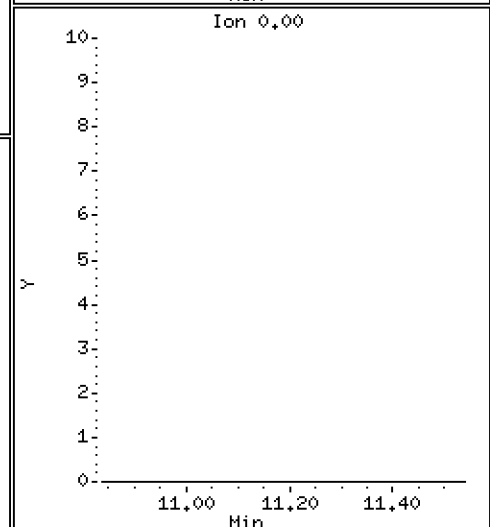
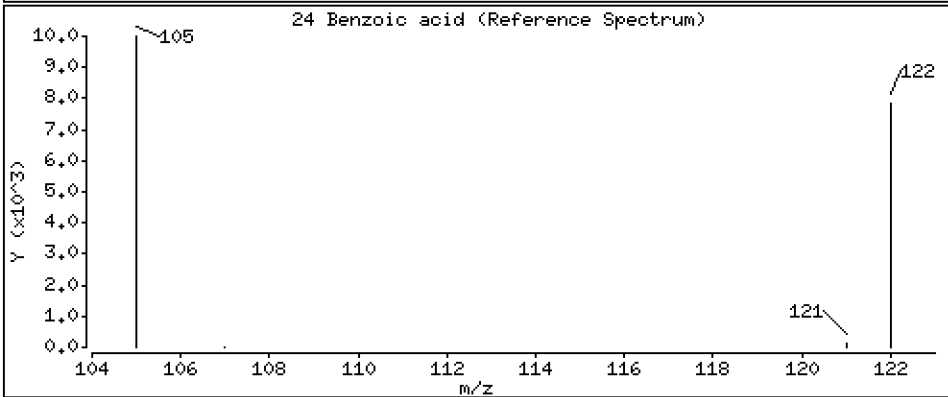
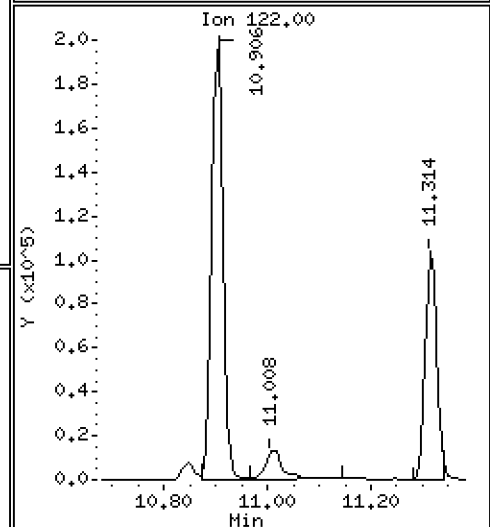
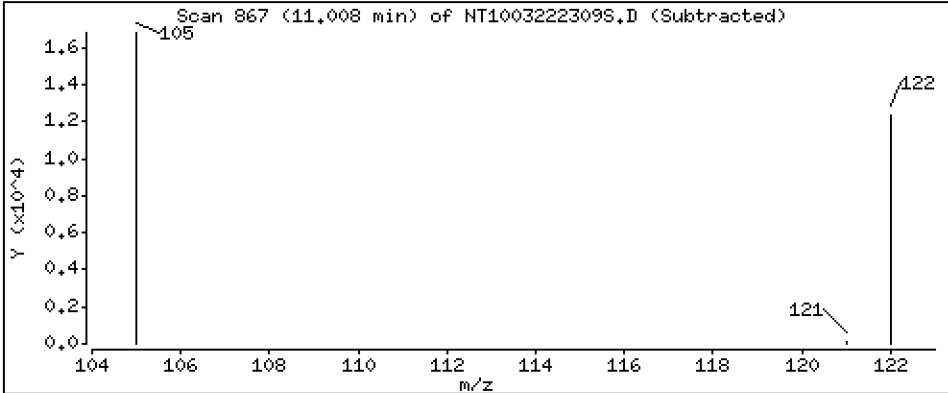
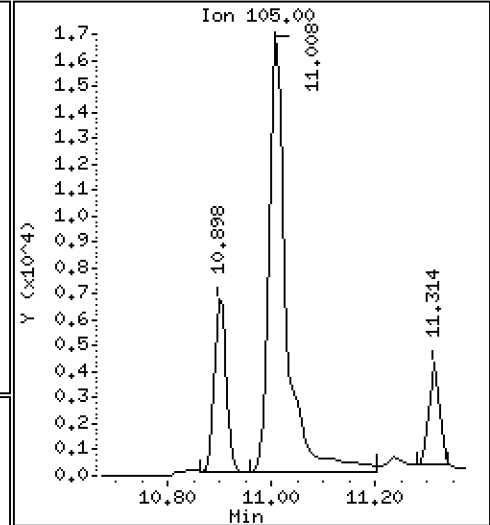
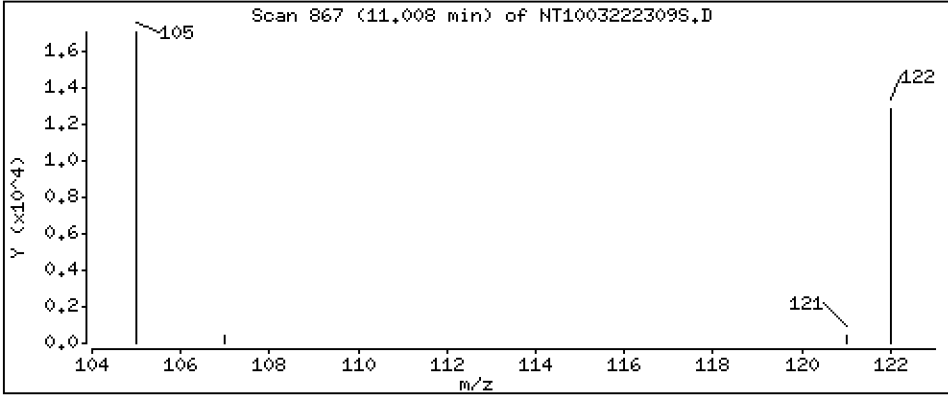
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

24 Benzoic acid

Concentration: 1,212 ug/L



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

Volume Injected (uL): 1.0

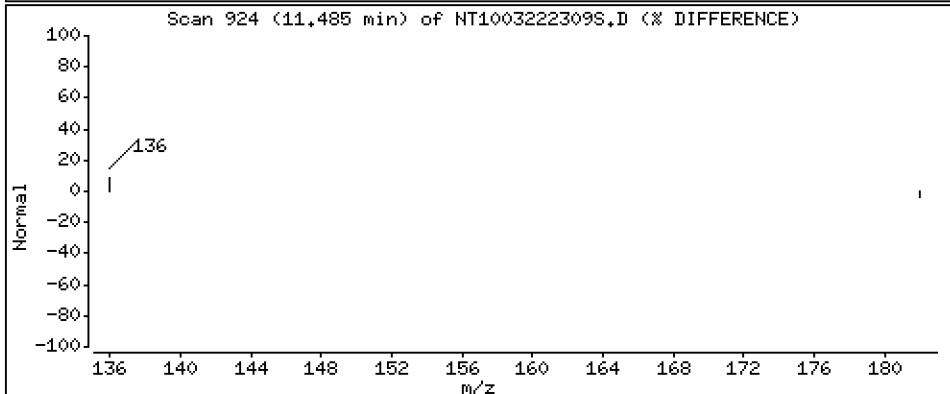
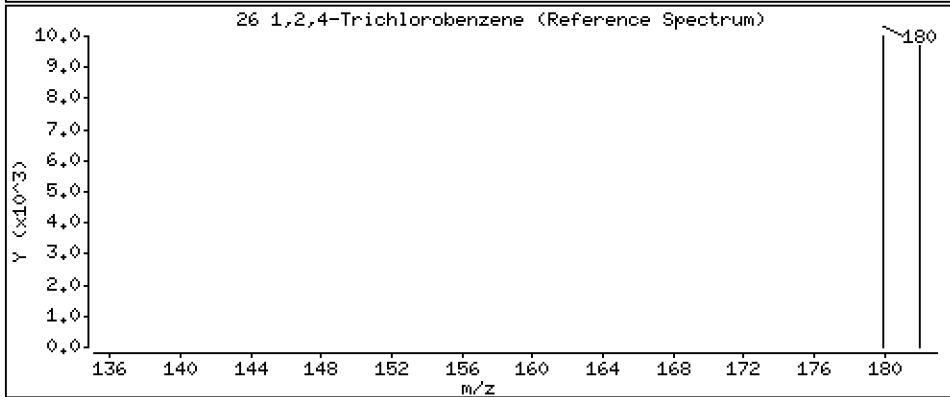
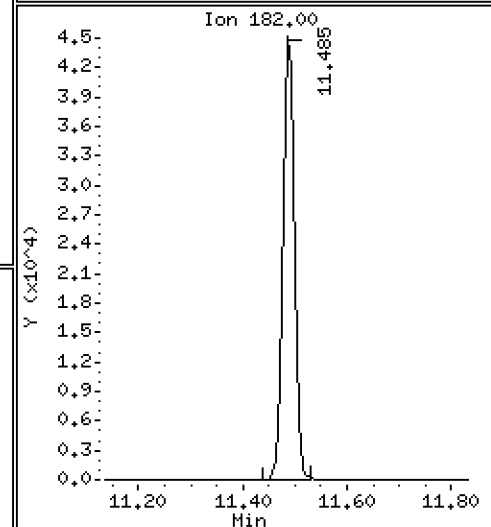
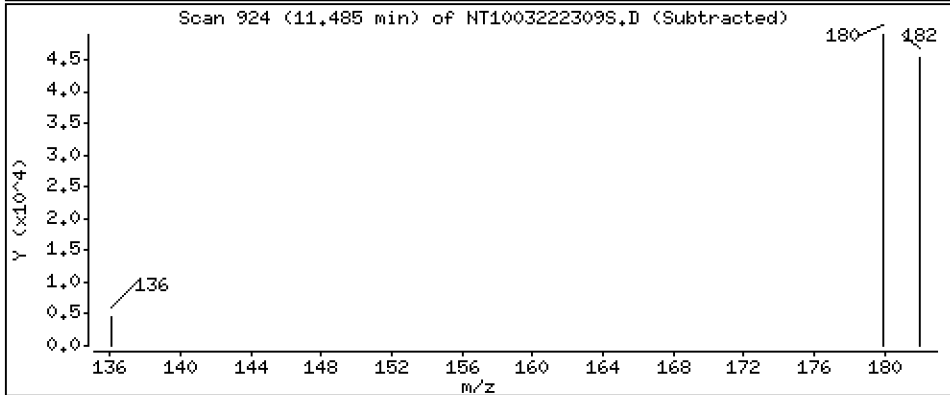
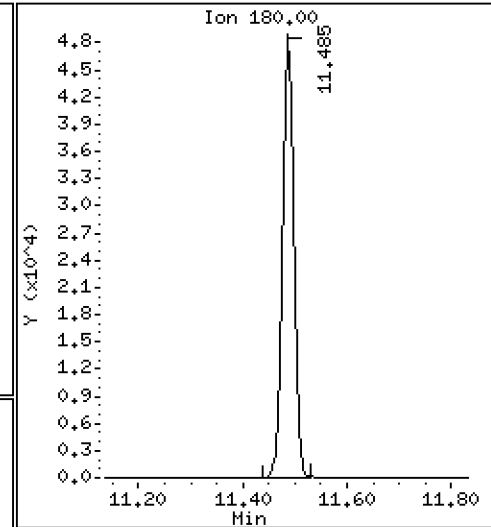
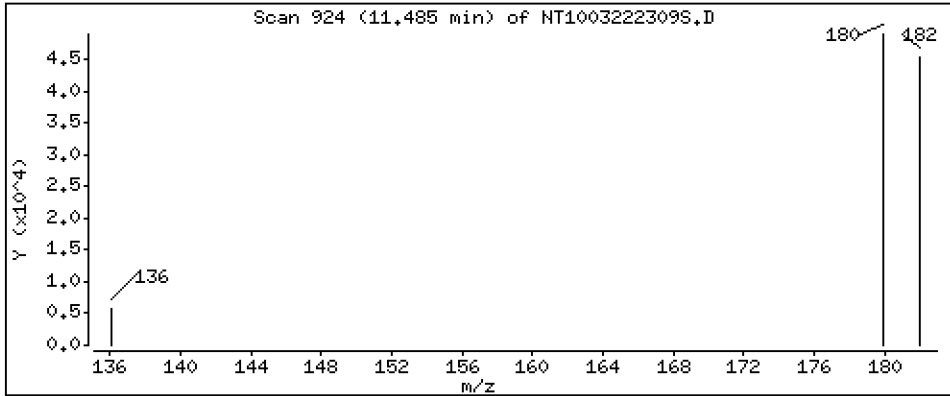
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 1,282 ug/L



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

Volume Injected (uL): 1.0

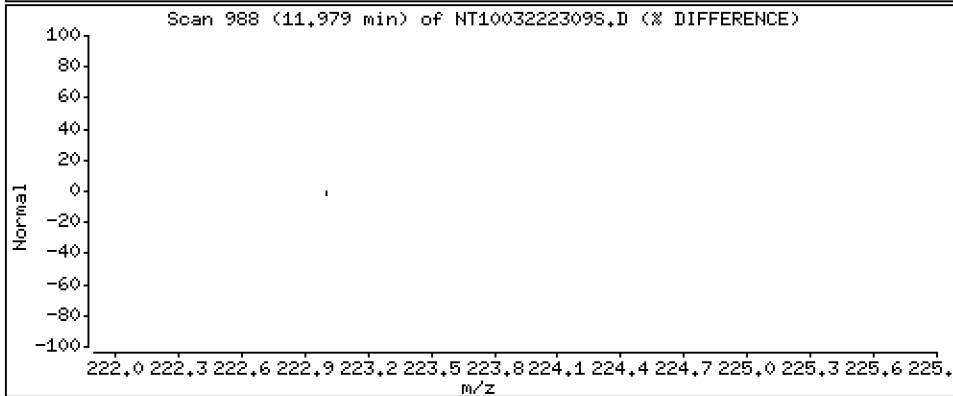
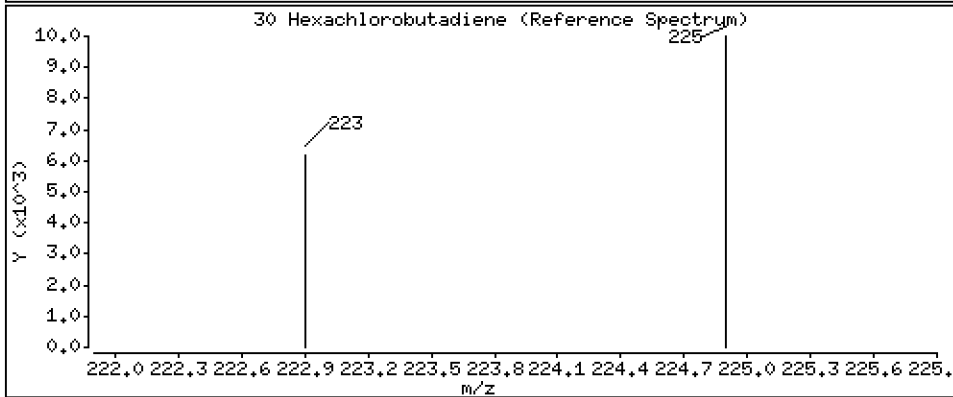
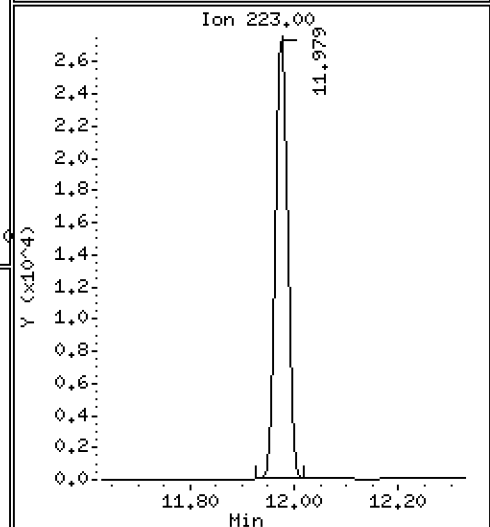
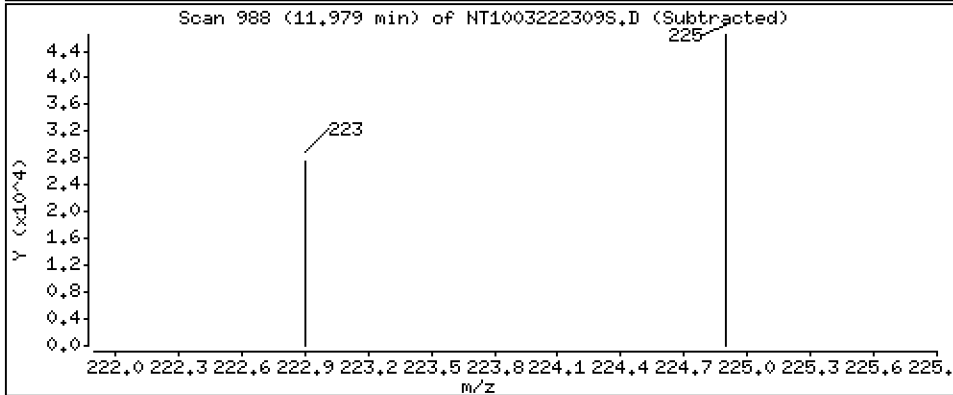
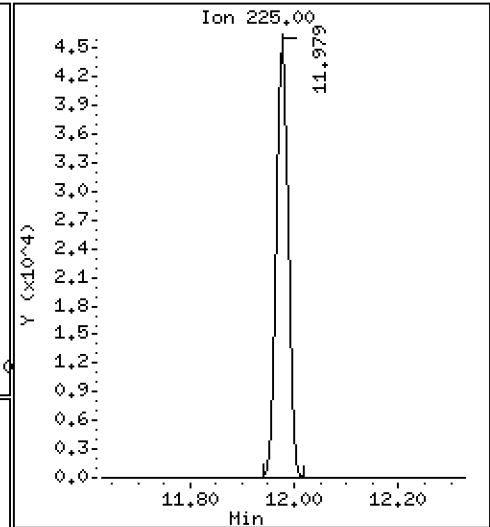
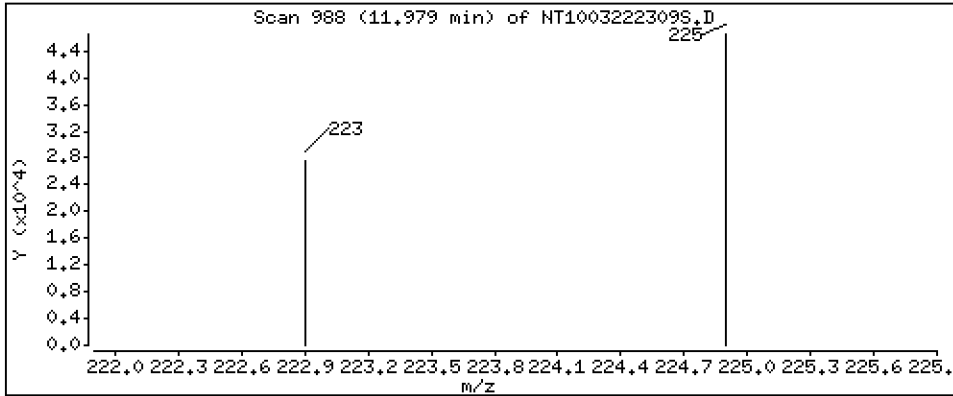
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 1,882 ug/L



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

Volume Injected (uL): 1.0

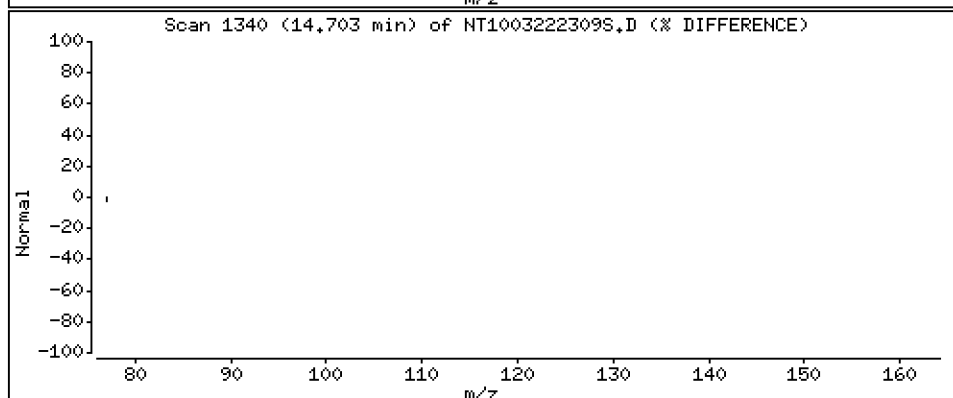
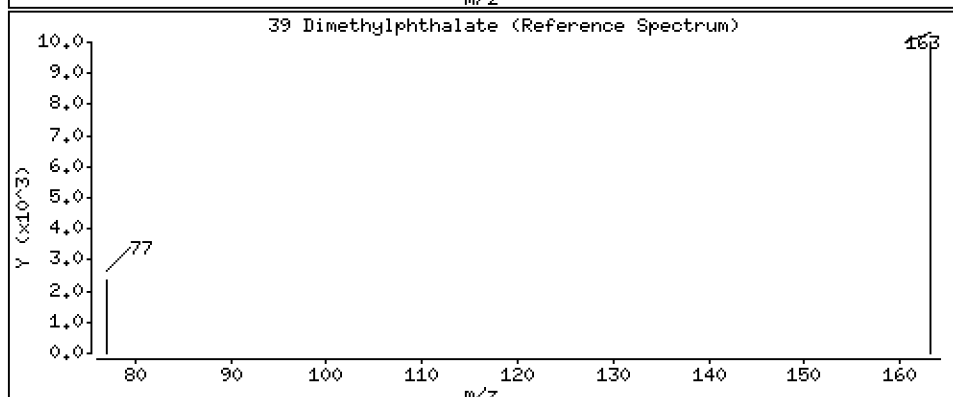
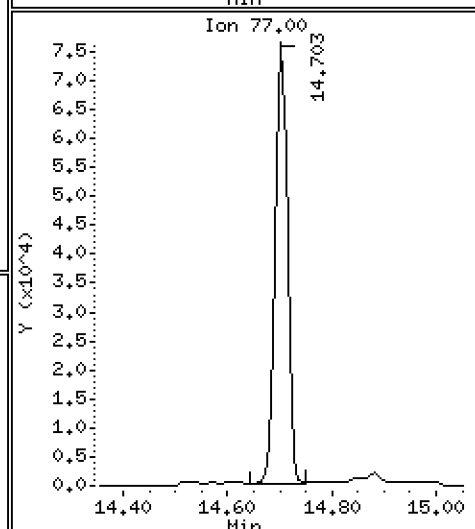
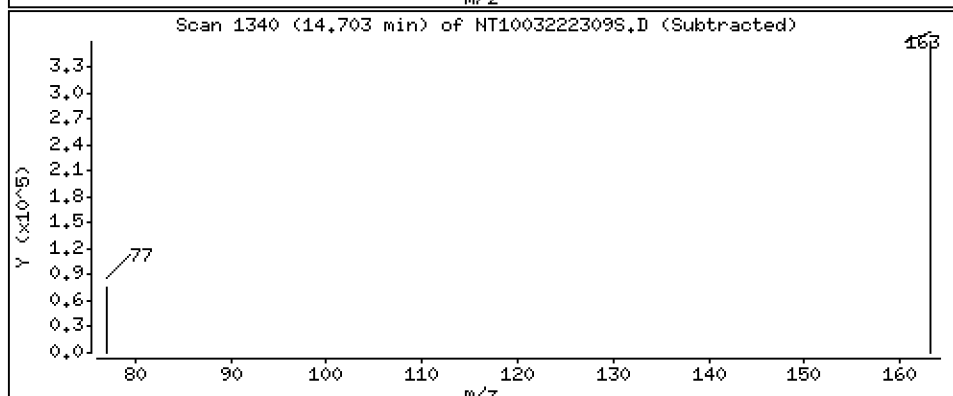
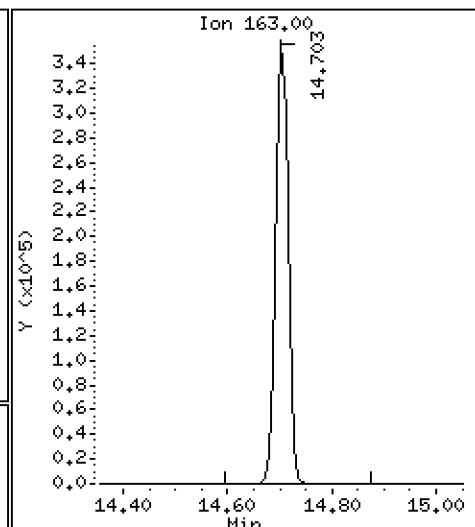
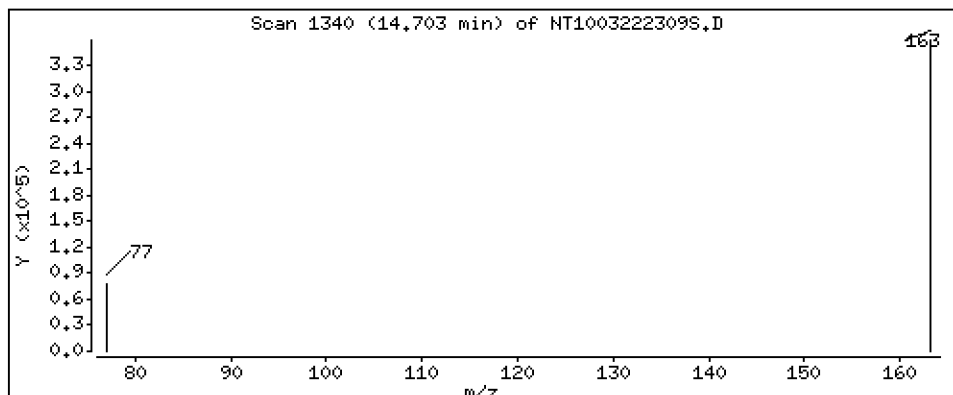
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

39 Dimethylphthalate

Concentration: 5,229 ug/L



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

Volume Injected (uL): 1.0

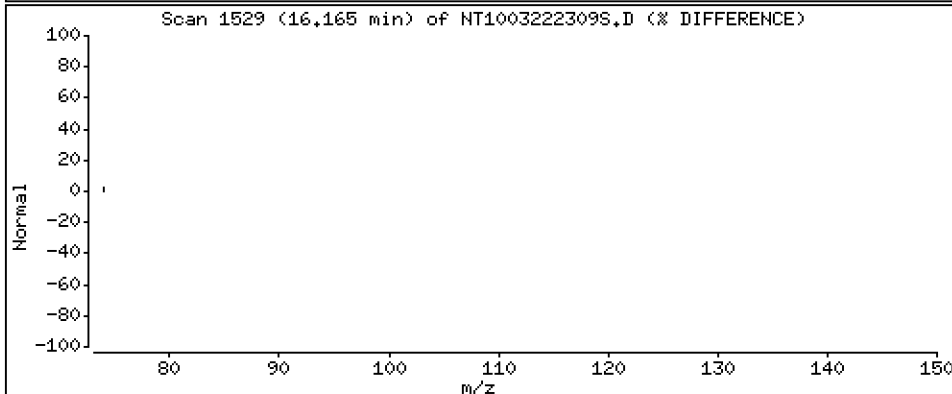
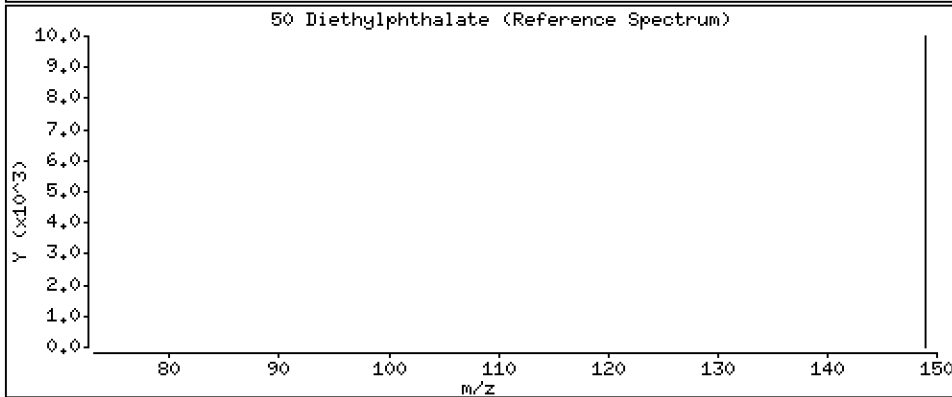
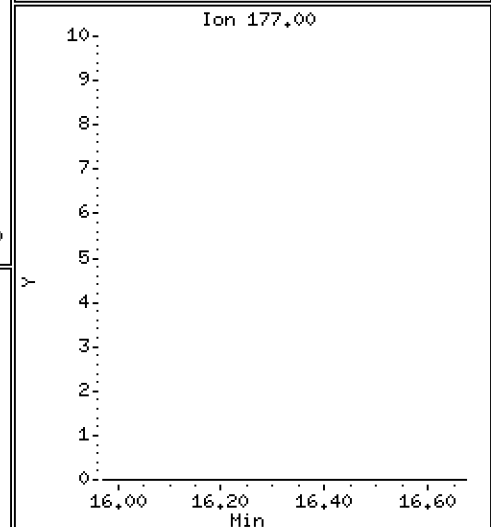
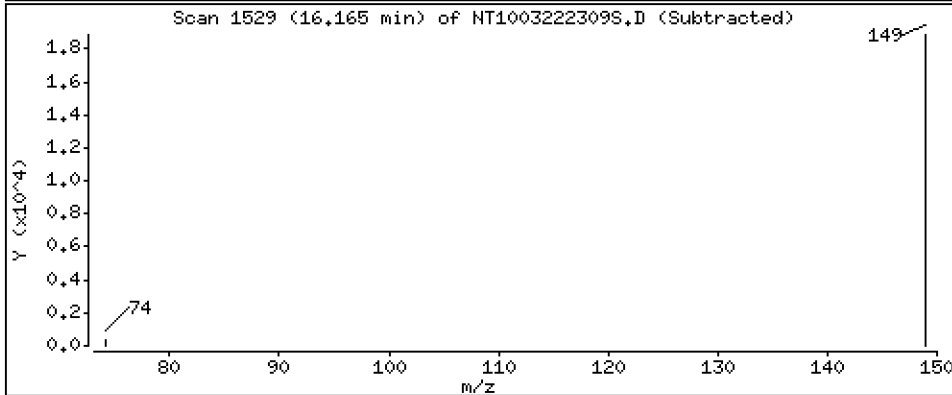
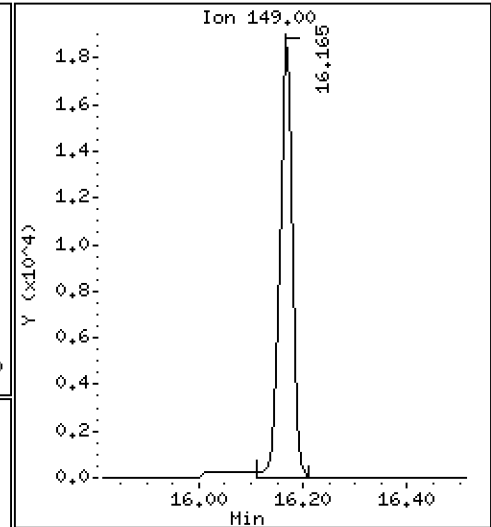
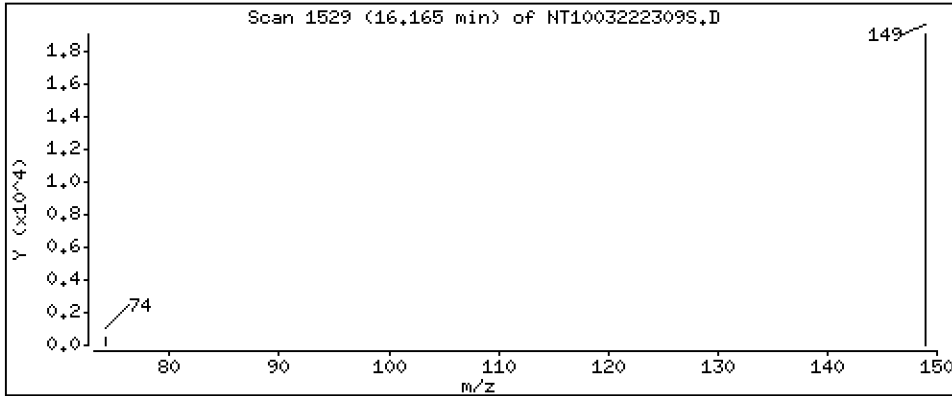
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 0,2815 ug/L



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

Volume Injected (uL): 1.0

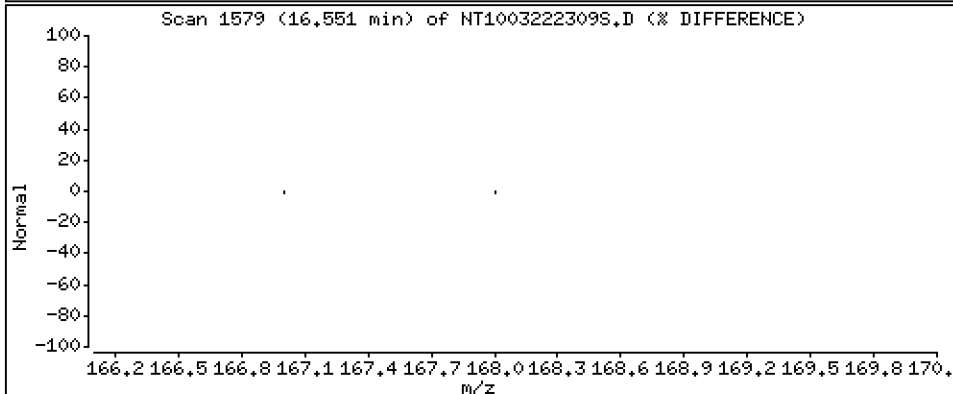
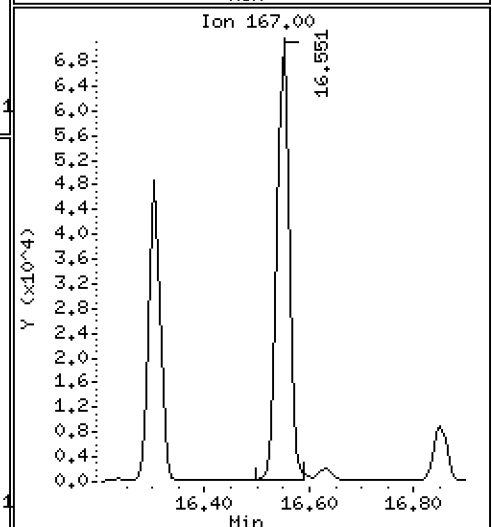
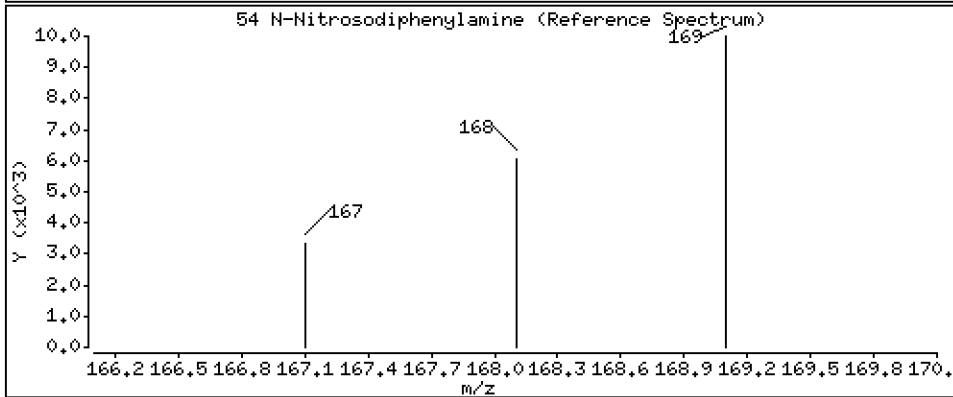
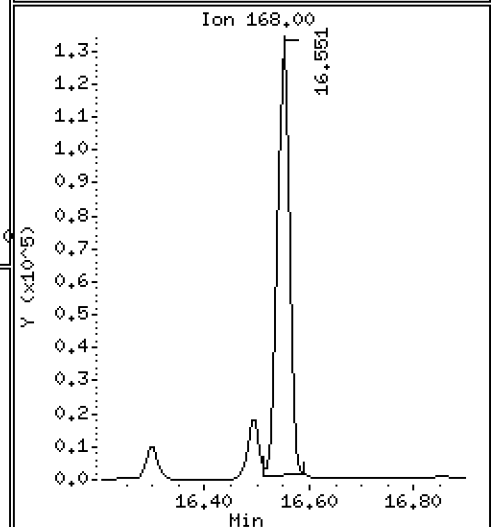
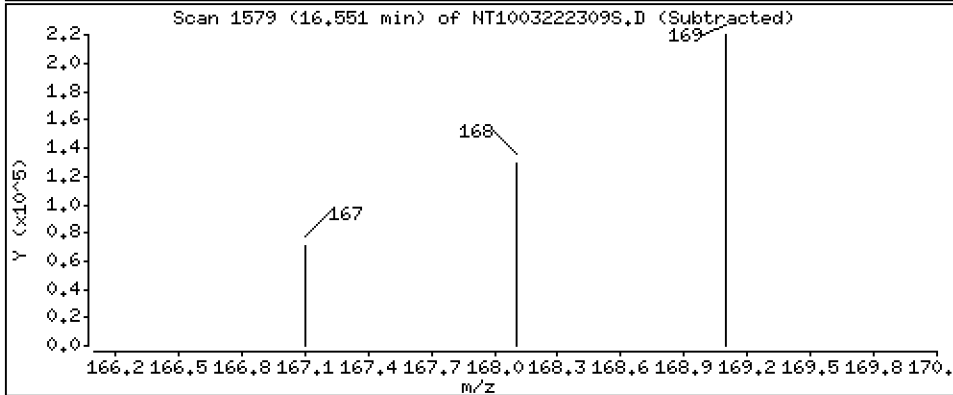
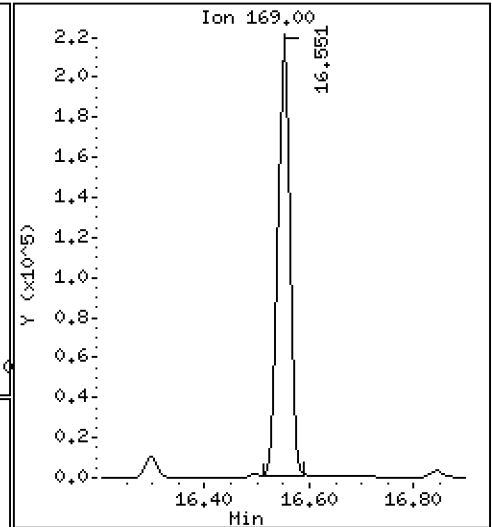
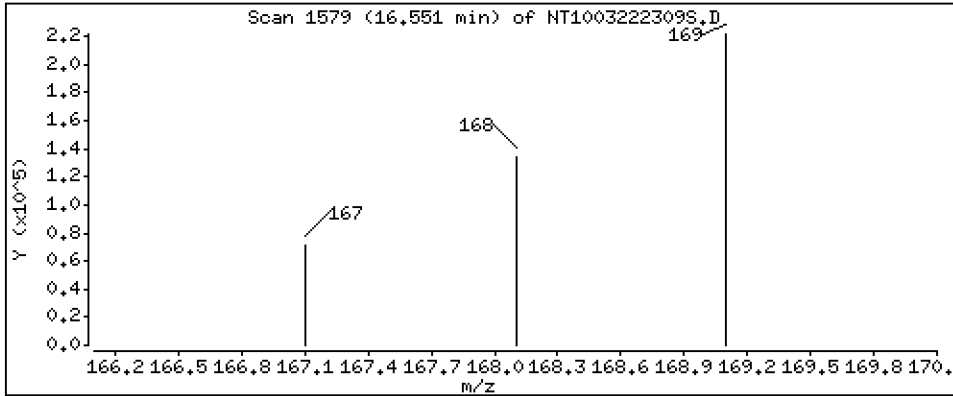
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

54 N-Nitrosodiphenylamine

Concentration: 3,641 ug/L



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

Volume Injected (uL): 1.0

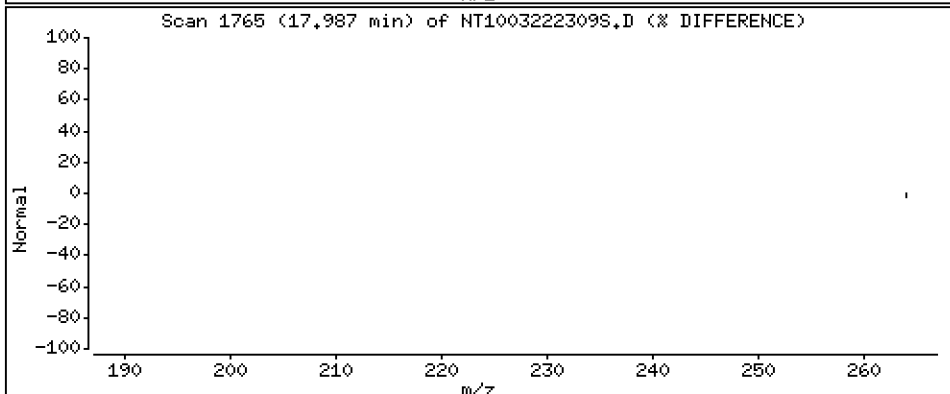
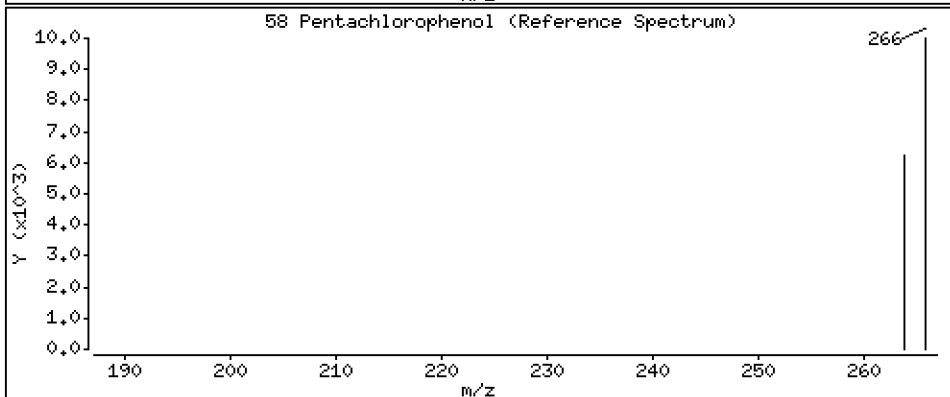
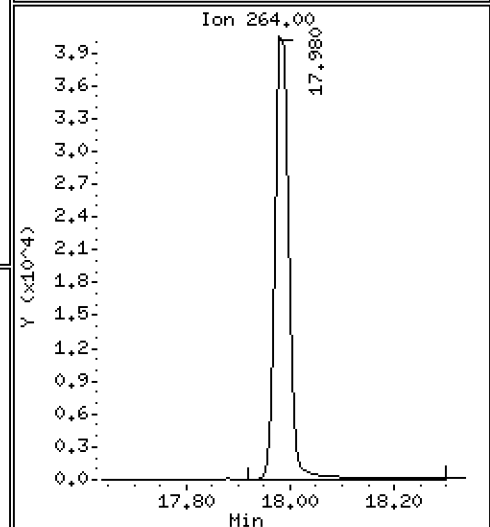
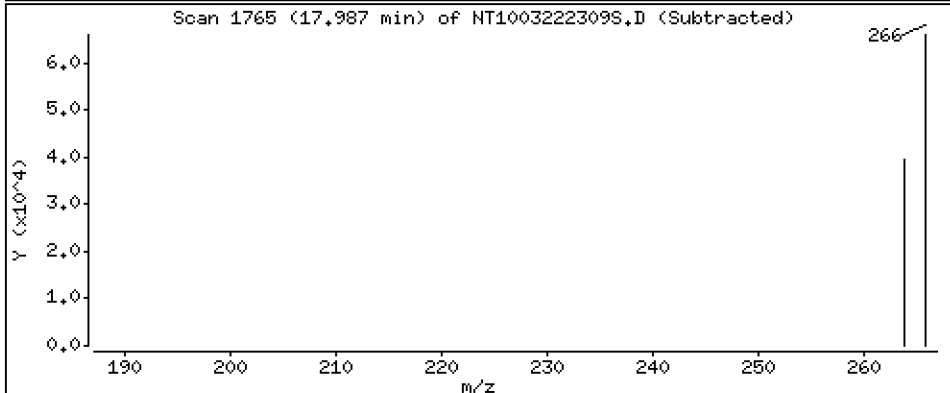
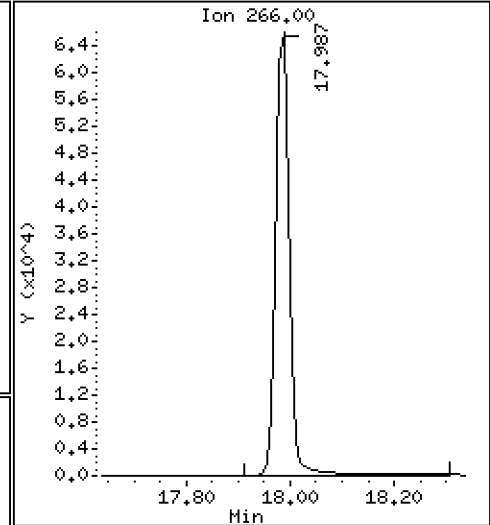
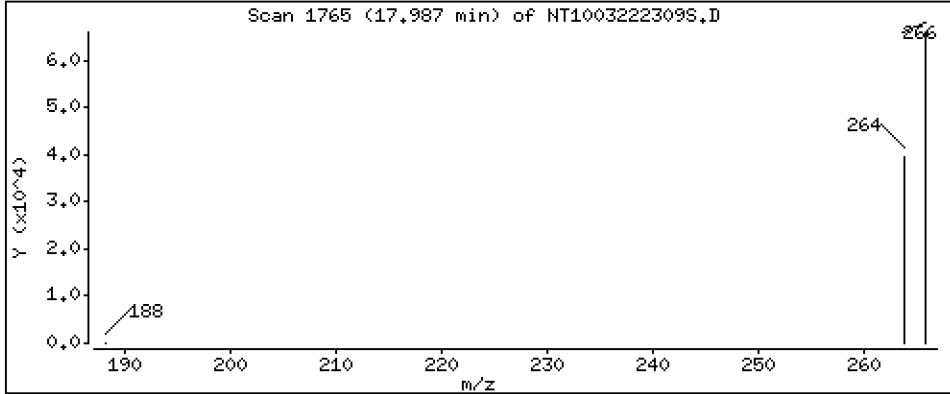
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

58 Pentachlorophenol

Concentration: 4.971 ug/L



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

Volume Injected (uL): 1.0

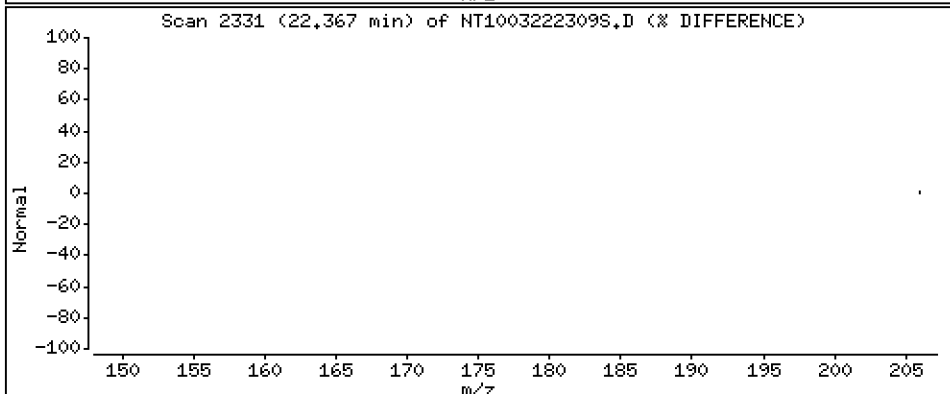
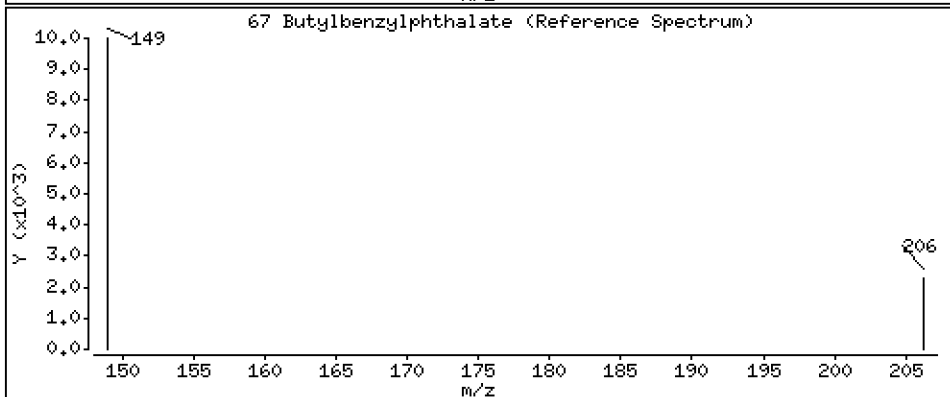
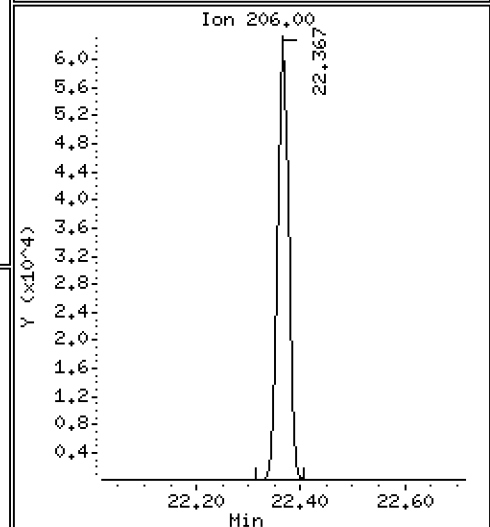
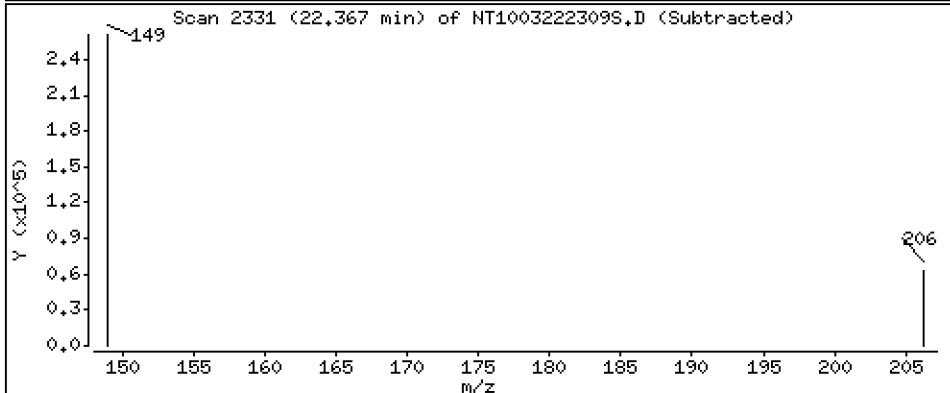
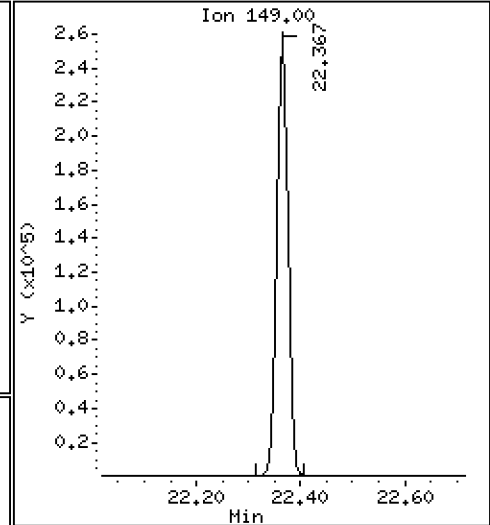
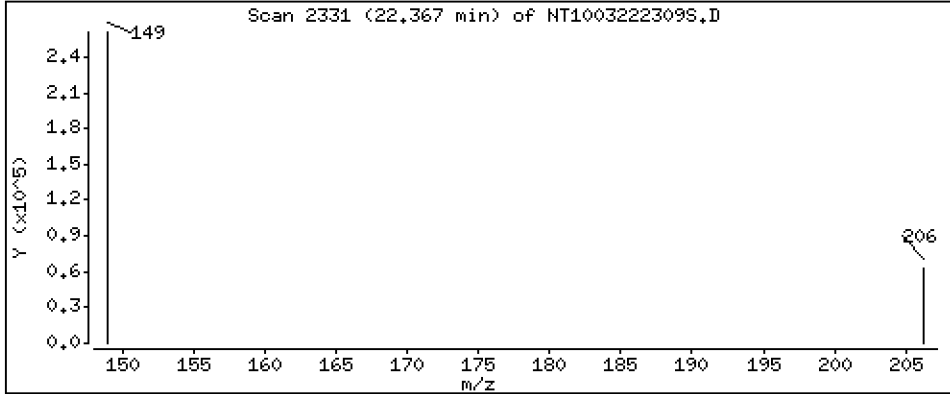
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 4,392 ug/L



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

Volume Injected (uL): 1.0

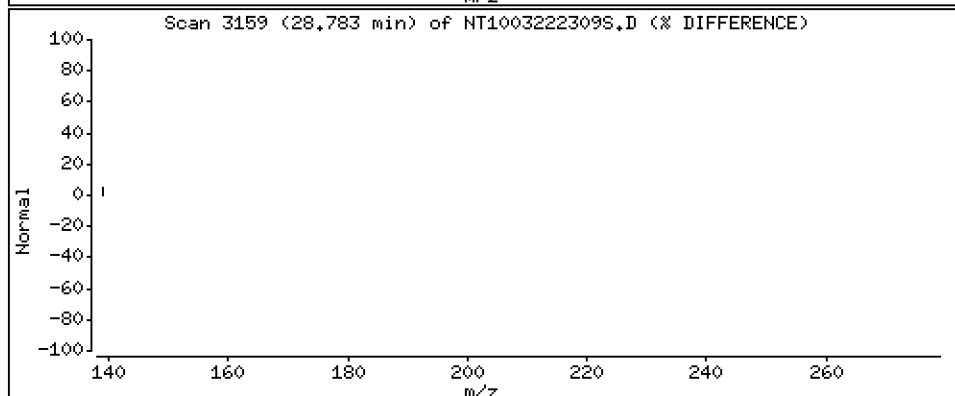
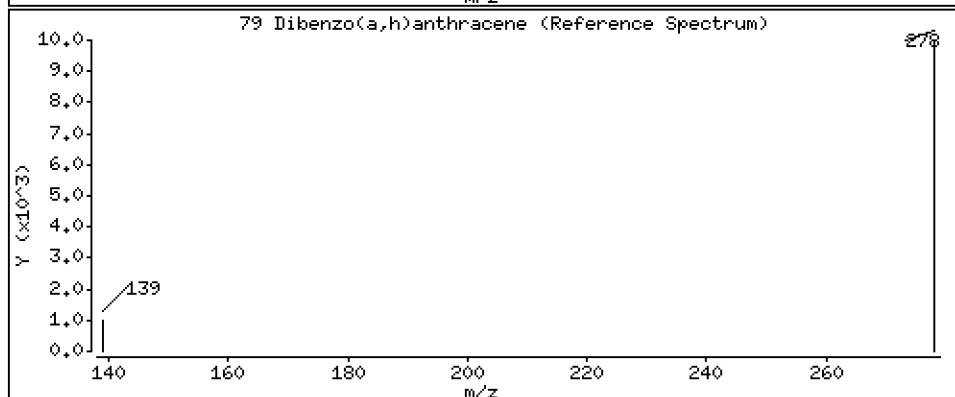
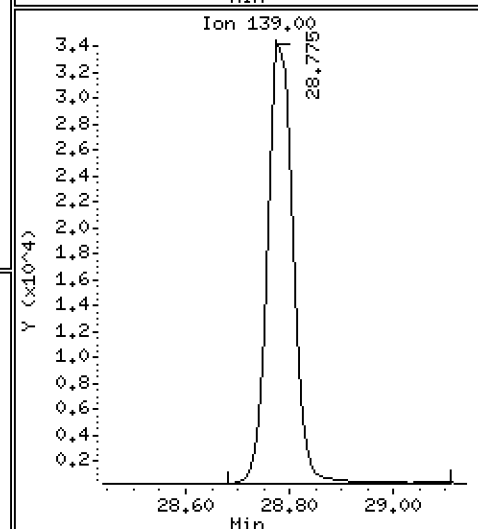
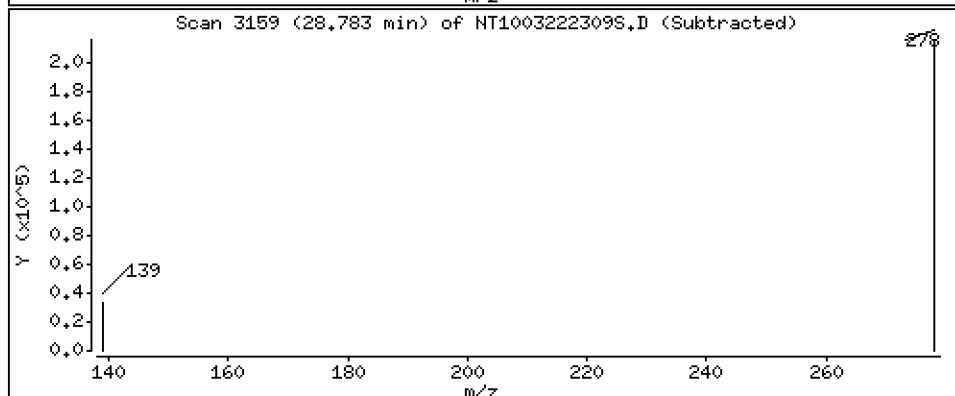
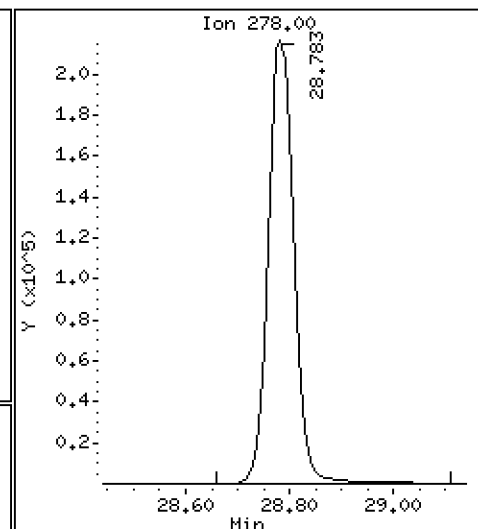
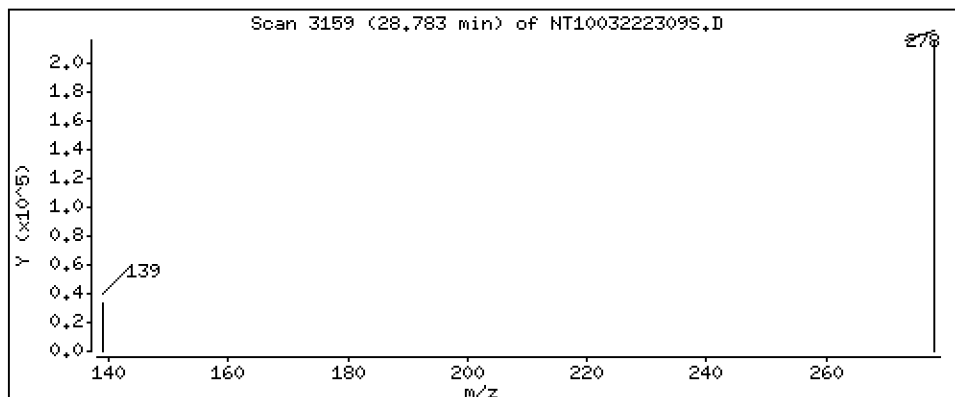
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 3,364 ug/L



Date : 22-MAR-2023 22:10

Client ID:

Instrument: nt10.i

Sample Info: BLC0442-SRM1

Volume Injected (uL): 1.0

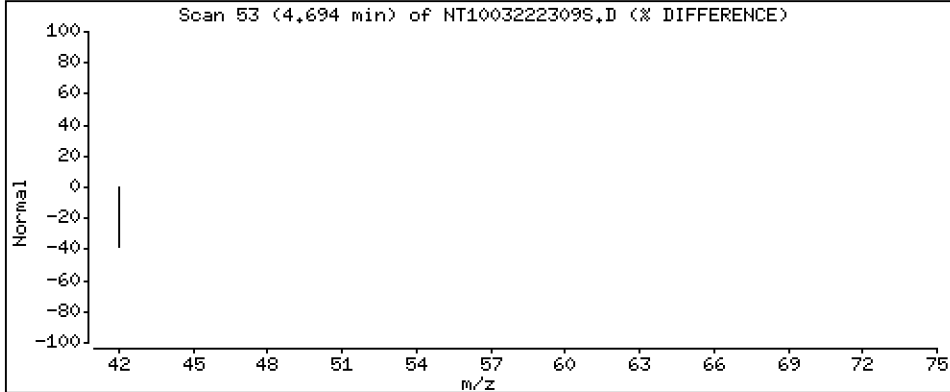
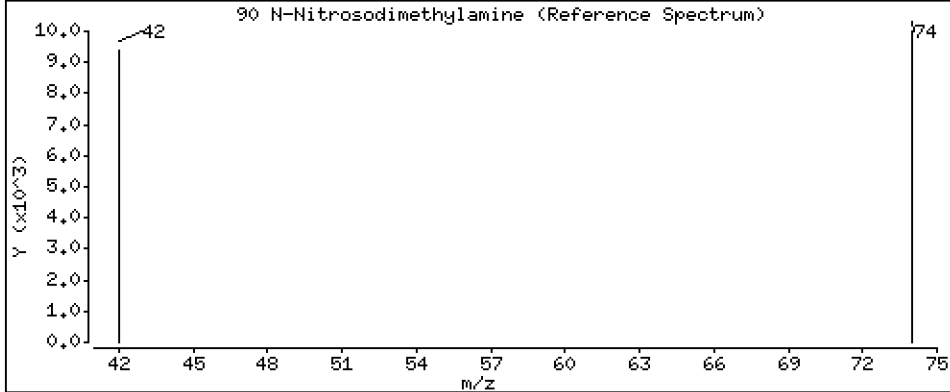
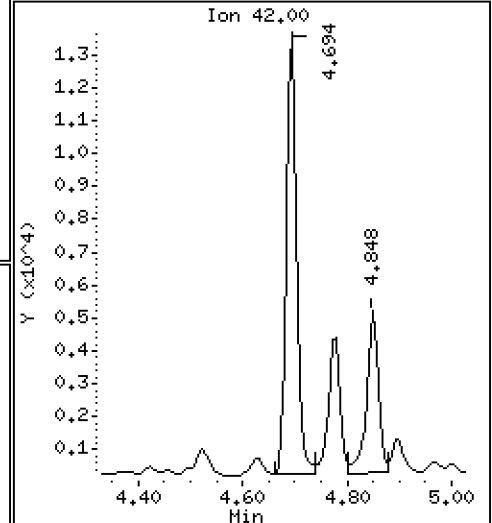
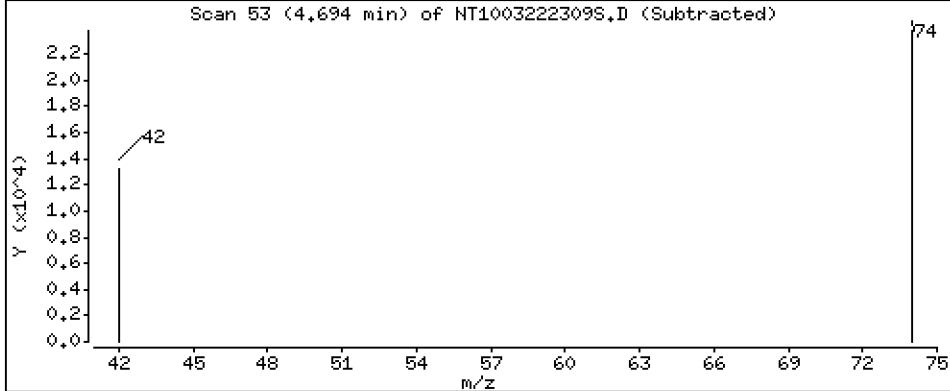
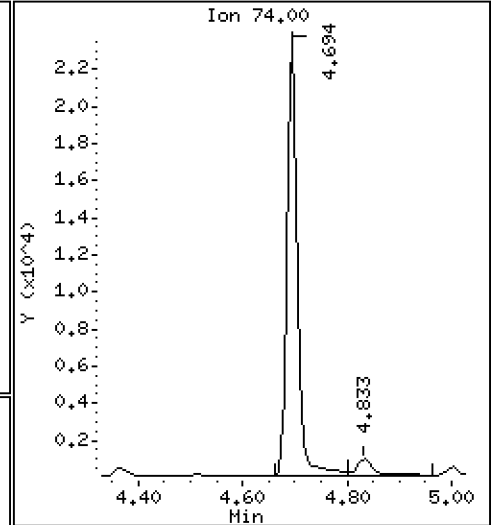
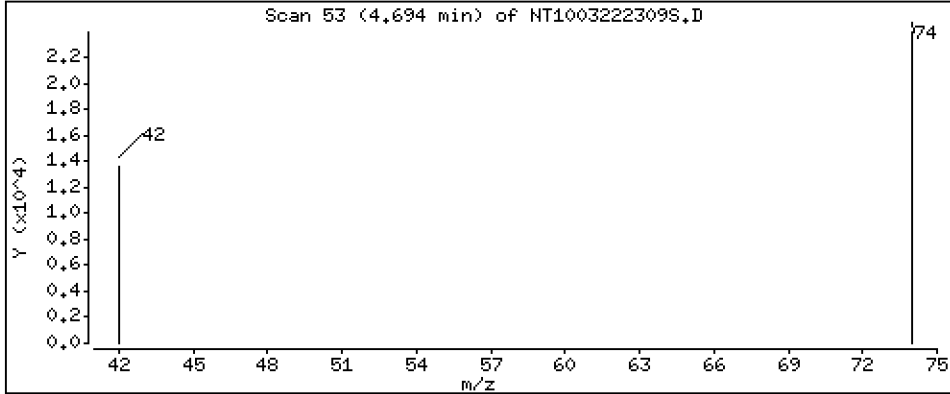
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

90 N-Nitrosodimethylamine

Concentration: 0.8943 ug/L



ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230322.b\SIM.b\NT1003222309S.D
 Lab Smp Id: BLC0442-SRM2
 Inj Date : 22-MAR-2023 22:10 MS Autotune Date: 16-JAN-2023 17:42
 Operator : JGR Inst ID: nt10.i
 Smp Info : BLC0442-SRM1
 Misc Info :
 Comment :
 Method : \\target\share\chem3\nt10.i\20230322.b\SIM.b\SIMABN2.m
 Meth Date : 25-Mar-2023 13:23 yev Quant Type: ISTD
 Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D
 Als bottle: 9
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: PSDDA.sub
 Target Version: 4.14
 Processing Host: ORGDATA102

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

| Name | Value | Description |
|---------------|----------|---------------------------------|
| DF | 1.000 | Dilution Factor |
| Vo | 1000.000 | Volume of sample extracted (mL) |
| Vt | 1000.000 | Volume of final extract (uL) |
| Vi | 1.000 | Volume injected (uL) |
| Uf | 1.000 | ng unit correction factor |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT | SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|-------------------------------|-------|-----|--------|----------------|--------|------------------------|----------------|-----------|
| | | | | | | | ON-COLUMN | FINAL |
| | MASS | | | | | | (ug/mL) | (ug/L) |
| \$ 1 2-Fluorophenol | 112 | | 6.864 | 6.856 (0.756) | | 341846 | 5.79999 | 5.800 (R) |
| 3 Phenol | 94 | | 8.471 | 8.471 (0.933) | | 199757 | 2.47038 | 2.470 |
| 7 1,3-Dichlorobenzene | 146 | | 9.020 | 9.020 (0.993) | | 76455 | 1.01045 | 1.010 |
| * 8 1,4-Dichlorobenzene-d4 | 152 | | 9.082 | 9.090 (1.000) | | 194361 | 4.00000 | |
| 9 1,4-Dichlorobenzene | 146 | | | | | Compound Not Detected. | | |
| 11 Benzyl alcohol | 79 | | | | | Compound Not Detected. | | |
| 12 1,2-Dichlorobenzene | 146 | | | | | Compound Not Detected. | | |
| 13 2-Methylphenol | 108 | | 9.586 | 9.586 (1.056) | | 318816 | 5.69017 | 5.690 |
| 15 4-Methylphenol | 108 | | 9.858 | 9.858 (1.085) | | 415535 | 7.13720 | 7.137 |
| 16 N-Nitroso-di-n-propylamine | 70 | | | | | Compound Not Detected. | | |
| 22 2,4-Dimethylphenol | 107 | | 10.906 | 10.897 (0.943) | | 350965 | 5.89579 | 5.896 |
| 24 Benzoic acid | 105 | | 11.008 | 11.025 (0.951) | | 39618 | 1.21191 | 1.212 |
| 26 1,2,4-Trichlorobenzene | 180 | | 11.485 | 11.485 (0.993) | | 76796 | 1.28242 | 1.282 |
| * 27 Naphthalene-d8 | 136 | | 11.569 | 11.569 (1.000) | | 688684 | 4.00000 | |
| 30 Hexachlorobutadiene | 225 | | 11.979 | 11.979 (1.035) | | 68504 | 1.88157 | 1.882 |
| 39 Dimethylphthalate | 163 | | 14.703 | 14.703 (0.967) | | 561333 | 5.22878 | 5.229 |
| * 42 Acenaphthene-d10 | 162 | | 15.198 | 15.198 (1.000) | | 340192 | 4.00000 | |
| 50 Diethylphthalate | 149 | | 16.165 | 16.165 (1.064) | | 31304 | 0.28147 | 0.2815 |
| 54 N-Nitrosodiphenylamine | 169 | | 16.550 | 16.550 (0.907) | | 327060 | 3.64079 | 3.641 |
| 57 Hexachlorobenzene | 284 | | | | | Compound Not Detected. | | |

| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|---------------------------|-----------|--------|--------|---------|----------|----------------------|------------------|
| | | | | | | ON-COLUMN (ug/mL) | FINAL (ug/L) |
| 58 Pentachlorophenol | 266 | 17.987 | 17.987 | (0.986) | 113647 | 4.97121 | 4.971 |
| * 59 Phenanthrene-d10 | 188 | 18.250 | 18.250 | (1.000) | 669550 | 4.00000 | |
| \$ 66 Terphenyl-d14 | 244 | 21.422 | 21.422 | (0.918) | 442907 | 4.60100 | 4.601 (R) |
| 67 Butylbenzylphthalate | 149 | 22.367 | 22.367 | (0.958) | 358964 | 4.39182 | 4.392 |
| * 69 Chrysene-d12 | 240 | 23.343 | 23.343 | (1.000) | 590805 | 4.00000 | |
| * 77 Perylene-d12 | 264 | 26.021 | 26.029 | (1.000) | 678670 | 4.00000 | |
| 79 Dibenzo(a,h)anthracene | 278 | 28.782 | 28.790 | (1.106) | 735059 | 3.36436 | 3.364 |
| 90 N-Nitrosodimethylamine | 74 | 4.693 | 4.678 | (0.517) | 33431 | 0.89432 | 0.8943 |

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i
 Lab File ID: NT1003222309S.D
 Lab Smp Id: BLC0442-SRM2
 Analysis Type: SV
 Quant Type: ISTD
 Operator: JGR
 Method File: \\target\share\chem3\nt10.i\20230322.b\SIM.b\SIMABN2.m
 Misc Info:

Calibration Date: 22-MAR-2023
 Calibration Time: 18:20
 Level: LOW
 Sample Type: AIR

Test Mode:
 Use Last Continuing Calibrator.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|------------|---------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 135191 | 67596 | 270382 | 194361 | 43.77 |
| 27 Naphthalene-d8 | 487226 | 243613 | 974452 | 688684 | 41.35 |
| 42 Acenaphthene-d10 | 246588 | 123294 | 493176 | 340192 | 37.96 |
| 59 Phenanthrene-d10 | 479352 | 239676 | 958704 | 669550 | 39.68 |
| 69 Chrysene-d12 | 439791 | 219896 | 879582 | 590805 | 34.34 |
| 77 Perylene-d12 | 505700 | 252850 | 1011400 | 678670 | 34.20 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 9.09 | 8.59 | 9.59 | 9.08 | -0.09 |
| 27 Naphthalene-d8 | 11.57 | 11.07 | 12.07 | 11.57 | -0.00 |
| 42 Acenaphthene-d10 | 15.20 | 14.70 | 15.70 | 15.20 | -0.00 |
| 59 Phenanthrene-d10 | 18.25 | 17.75 | 18.75 | 18.25 | -0.00 |
| 69 Chrysene-d12 | 23.34 | 22.84 | 23.84 | 23.34 | -0.00 |
| 77 Perylene-d12 | 26.03 | 25.53 | 26.53 | 26.02 | -0.03 |

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

REVIEW SUMMARY FOR FILE - NT1003222309S.D

Lab ID: BLC0442-SRM2

nt10.i, 20230322.b\SIM.b\SIMABN2.m, 22-MAR-2023 22:10

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

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

NONE

RRT check based on Ccal File: SIM.b/NT1003222303S.D

On Column LOD for nt10.i, SIM.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

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



**MASS SPECTROMETER
INSTRUMENT PERFORMANCE CHECK
EPA 8270E-SIM**

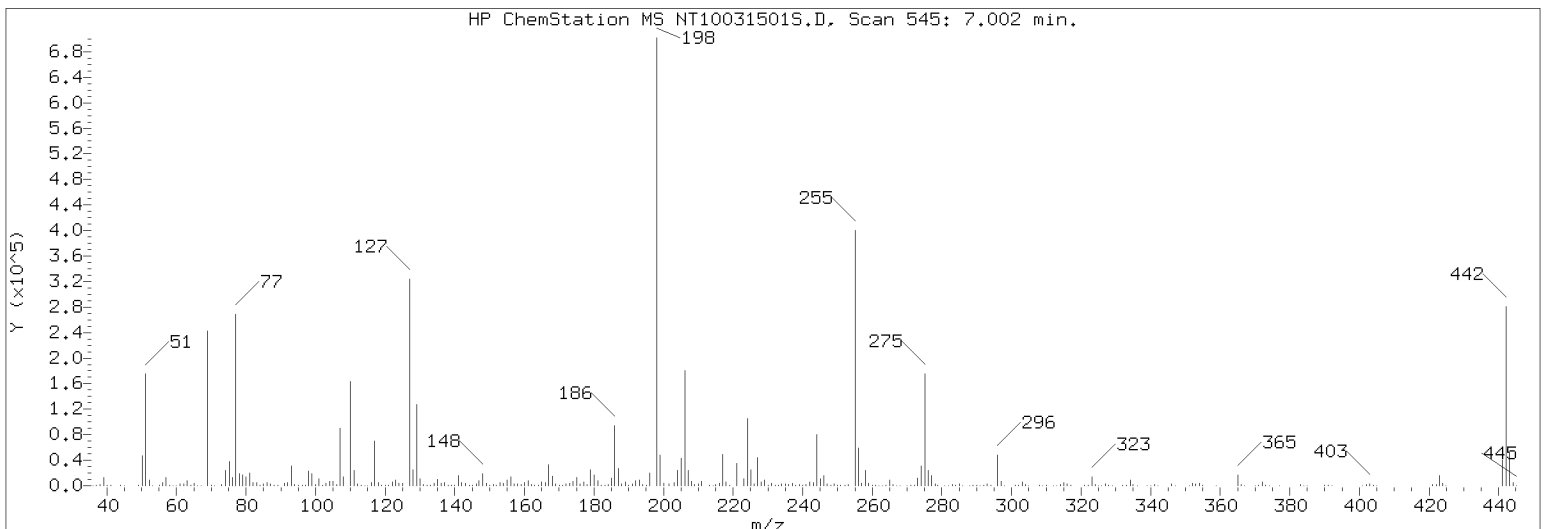
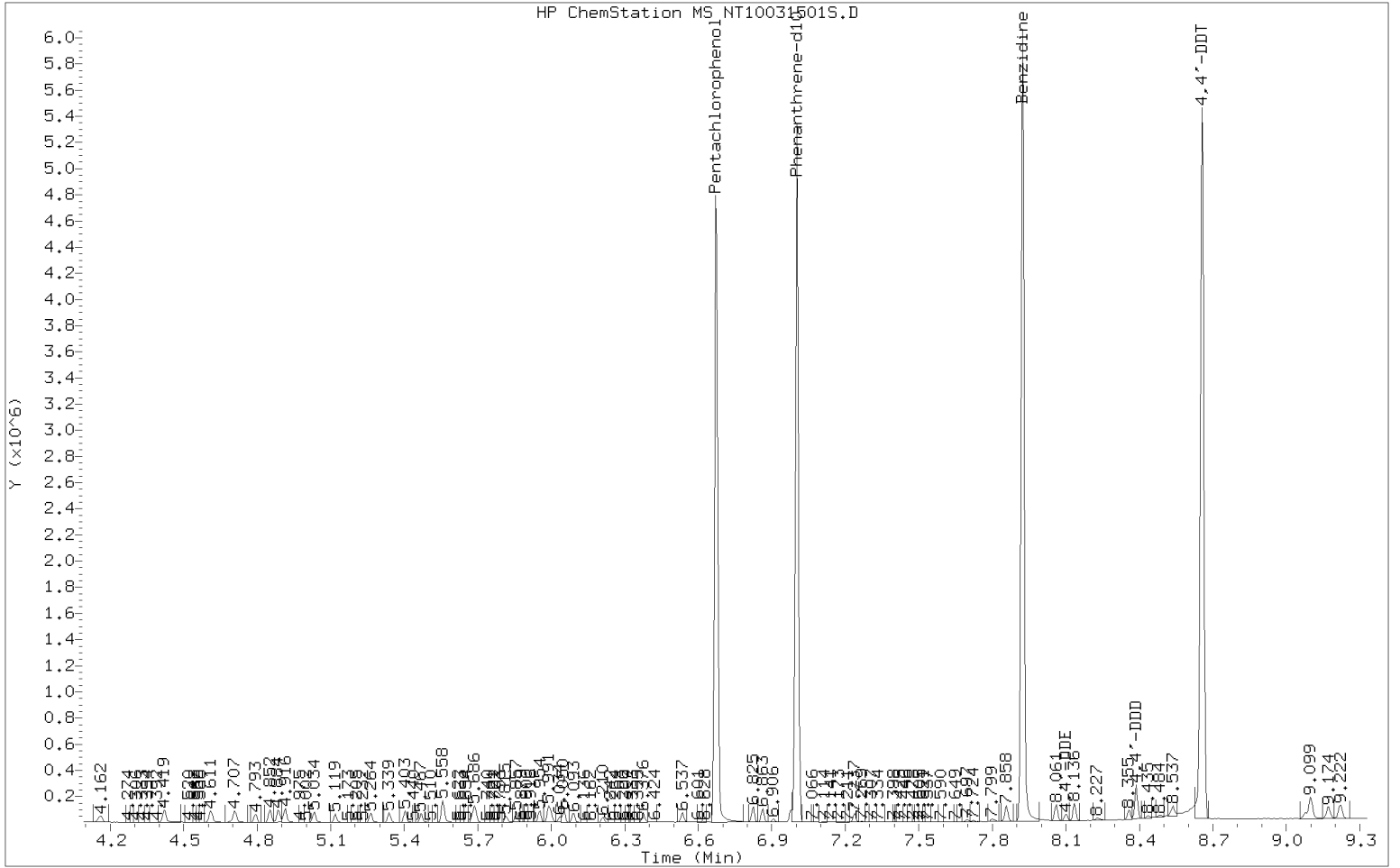
| | | | |
|----------------|----------------------------------|-----------------|------------------------|
| Laboratory: | <u>Analytical Resources, LLC</u> | SDG: | <u>23A0180</u> |
| Client: | <u>Anchor QEA, LLC</u> | Project: | <u>AOC5 MR Phase 1</u> |
| Lab File ID: | <u>NT10031501S.D</u> | Injection Date: | <u>03/15/23</u> |
| Instrument ID: | <u>NT10</u> | Injection Time: | <u>20:19</u> |
| Sequence: | <u>SLC0238</u> | Lab Sample ID: | <u>SLC0238-TUN1</u> |

| m/z | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE | |
|----------|------------------------------------|----------------------|------|
| 68 | Less than 2% of 69 | 0.372 | PASS |
| 69 | Less than 100% of 198 | 36.5 | PASS |
| 70 | Less than 2% of 69 | 0.498 | PASS |
| 197 | Less than 2% of 198 | 0 | PASS |
| 198 | Base peak, 100% relative abundance | 100 | PASS |
| 199 | 5 - 9% of 198 | 6.88 | PASS |
| 365 | 1 - 100% of 198 | 2.52 | PASS |
| 441 | Less than 150% of 443 | 77.1 | PASS |
| 442 | 1 - 200% of 198 | 42.8 | PASS |
| 443 | 15 - 24% of 442 | 18.5 | PASS |
| 4,4'-DDD | Less than 20% of 4,4'-DDT | | |
| 4,4'-DDE | Less than 20% of 4,4'-DDT | | |
| 4,4'-DDT | Less than 200% of | | |

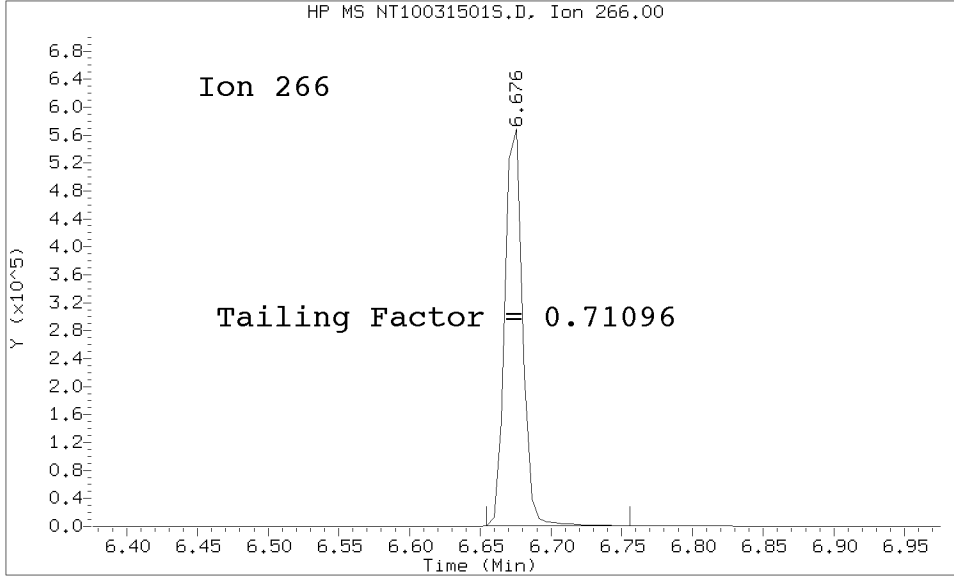
| Client Sample ID | Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed |
|---------------------|---------------|---------------|---------------|---------------|
| MS Tune | SLC0238-TUN1 | NT10031501S.D | 03/15/2023 | 20:19 |
| Cal Standard | SLC0238-CAL8 | NT10031503S.D | 03/15/2023 | 21:12 |
| Cal Standard | SLC0238-CAL7 | NT10031504S.D | 03/15/2023 | 21:50 |
| Cal Standard | SLC0238-CAL6 | NT10031505S.D | 03/15/2023 | 22:28 |
| Cal Standard | SLC0238-CAL5 | NT10031506S.D | 03/15/2023 | 23:06 |
| Cal Standard | SLC0238-CAL4 | NT10031507S.D | 03/15/2023 | 23:44 |
| Cal Standard | SLC0238-CAL3 | NT10031508S.D | 03/16/2023 | 0:22 |
| Cal Standard | SLC0238-CAL2 | NT10031509S.D | 03/16/2023 | 1:00 |
| Cal Standard | SLC0238-CAL1 | NT10031510S.D | 03/16/2023 | 1:38 |
| Secondary Cal Check | SLC0238-SCV1 | NT10031511S.D | 03/16/2023 | 2:16 |
| Initial Cal Blank | SLC0238-ICB1 | NT10031512S.D | 03/16/2023 | 2:54 |

DFTPP TAILING FACTOR AND BREAKDOWN GRAPHIC REPORT

Datafile Analyzed: /20230315.b/20230315.b/NT10031501S.D/NT10031501S.D
Method Used: \20230315.b\20230315.b\DFTPP8270E.m Inst: nt10
Injection Date: 15-MAR-2023 20:19 Operator: JGR
Sample Info: SLC0238-TUN1 SLC0238-TUN1
Report Date: 03/16/2023 14:49



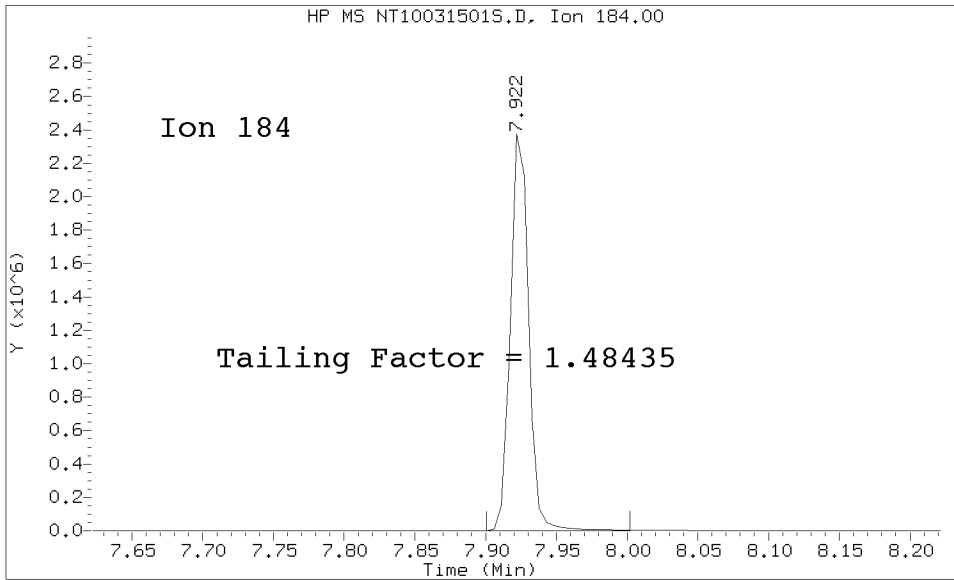
Datafile Analyzed: /20230315.b/20230315.b/NT10031501S.D/NT10031501S.D
Method Used: \20230315.b\20230315.b\DFTPP8270E.m\sw846ddt.m Inst: nt10
Injection Date: 15-MAR-2023 20:19 Operator: JGR
Sample Info: SEQ-TUN1
Report Date: 03/16/2023 14:49



Pentachlorophenol

=====
Exp. RT = 6.676
Found RT = 6.676

Tail Factor = 0.711 Maximum Allowed = 2.0



Benzidine

=====
Exp. RT = 7.922
Found RT = 7.922

Tail Factor = 1.484 Maximum Allowed = 2.0

8270 TAILING FACTOR/BREAKDOWN SUMMARY RESULTS

TAILING ANALYSIS SUMMARY

| Compound | Tail Factor | Max Allowed | Test |
|-------------------|-------------|-------------|------|
| Pentachlorophenol | 0.7109557 | 2.000 | PASS |
| Benzidine | 1.4843493 | 2.000 | PASS |

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

| Compound | Response | %Breakdown | Max Allowed | Test |
|---------------|----------|------------|-------------|------|
| 4,4-DDT | 962640 | | | N/A |
| 4,4-DDE | 5158 | 0.5 | 20.0 | PASS |
| 4,4-DDD | 41277 | 4.1 | 20.0 | PASS |
| 4,4-DDD + DDE | 46435 | 4.6 | 20.0 | PASS |

Tuning Sample, nt10.i/20230315.b/20230315.b/NT10031501S.D, *** PASSED ***

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 198 | Base Peak, 100% relative abundance | 100.00 |
| 68 | Less than 2.00% of mass 69 | 0.14 (0.37) |
| 69 | Mass 69 relative abundance | 36.50 |
| 70 | Less than 2.00% of mass 69 | 0.18 (0.50) |
| 197 | Less than 2.00% of mass 198 | 0.00 |
| 199 | 5.00 - 9.00% of mass 198 | 6.88 |
| 365 | 1.00 - 100.00% of mass 198 | 2.52 |
| 441 | Less than 150.00% of mass 443 | 6.11 (77.09) |
| 442 | Less than 200.00% of mass 198 | 42.80 |
| 443 | 15.00 - 24.00% of mass 442 | 7.92 (18.52) |

Data File: NT10031501S.D
Spectrum: Avg. Scans 544-546 (7.00), Background Scan 536
Location of Maximum: 198.00
Number of points: 316

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|-------|--------|--------|--------|--------|--------|--------|-------|
| 36.00 | 226 | 124.00 | 3185 | 207.00 | 17112 | 293.00 | 2318 |
| 37.00 | 575 | 125.00 | 2909 | 208.00 | 4722 | 294.00 | 588 |
| 38.00 | 1820 | 127.00 | 243264 | 209.00 | 1586 | 295.00 | 171 |
| 39.00 | 10159 | 128.00 | 18696 | 210.00 | 2002 | 296.00 | 36168 |
| 40.00 | 405 | 129.00 | 96304 | 211.00 | 5093 | 297.00 | 5056 |
| 41.00 | 312 | 130.00 | 8257 | 213.00 | 371 | 298.00 | 351 |
| 42.00 | 59 | 131.00 | 1626 | 214.00 | 74 | 301.00 | 422 |
| 45.00 | 283 | 132.00 | 820 | 215.00 | 1549 | 302.00 | 552 |
| 49.00 | 910 | 133.00 | 415 | 216.00 | 2822 | 303.00 | 4130 |
| 50.00 | 35800 | 134.00 | 2800 | 217.00 | 36520 | 304.00 | 1107 |
| 51.00 | 136000 | 135.00 | 7704 | 218.00 | 4515 | 305.00 | 126 |
| 52.00 | 7201 | 136.00 | 3195 | 219.00 | 360 | 308.00 | 532 |
| 53.00 | 294 | 137.00 | 3970 | 221.00 | 25672 | 309.00 | 330 |
| 55.00 | 668 | 138.00 | 948 | 222.00 | 2863 | 310.00 | 461 |
| 56.00 | 4206 | 139.00 | 563 | 223.00 | 8094 | 312.00 | 63 |
| 57.00 | 9877 | 140.00 | 1193 | 224.00 | 76160 | 313.00 | 360 |
| 58.00 | 478 | 141.00 | 12476 | 225.00 | 18680 | 314.00 | 1762 |
| 59.00 | 106 | 142.00 | 3876 | 226.00 | 2197 | 315.00 | 4011 |
| 60.00 | 125 | 143.00 | 2757 | 227.00 | 32752 | 316.00 | 2200 |
| 61.00 | 1897 | 144.00 | 726 | 228.00 | 4949 | 317.00 | 416 |
| 62.00 | 2103 | 145.00 | 710 | 229.00 | 6725 | 321.00 | 1068 |
| 63.00 | 6654 | 146.00 | 2200 | 230.00 | 933 | 322.00 | 491 |
| 64.00 | 895 | 147.00 | 6157 | 231.00 | 2854 | 323.00 | 10541 |
| 65.00 | 3279 | 148.00 | 13642 | 232.00 | 574 | 324.00 | 1817 |
| 66.00 | 188 | 149.00 | 2992 | 233.00 | 660 | 325.00 | 178 |
| 67.00 | 249 | 150.00 | 753 | 234.00 | 2022 | 326.00 | 218 |
| 68.00 | 704 | 151.00 | 1678 | 235.00 | 2475 | 327.00 | 2103 |
| 69.00 | 189184 | 152.00 | 893 | 236.00 | 1621 | 328.00 | 1092 |
| 70.00 | 943 | 153.00 | 4091 | 237.00 | 2803 | 329.00 | 211 |
| 71.00 | 156 | 154.00 | 3154 | 238.00 | 375 | 332.00 | 739 |
| 73.00 | 1307 | 155.00 | 6743 | 239.00 | 1387 | 333.00 | 975 |
| 74.00 | 18768 | 156.00 | 10344 | 240.00 | 943 | 334.00 | 6536 |
| 75.00 | 30000 | 157.00 | 2091 | 241.00 | 1718 | 335.00 | 1733 |
| 76.00 | 10364 | 158.00 | 2204 | 242.00 | 4096 | 336.00 | 201 |
| 77.00 | 207552 | 159.00 | 1689 | 243.00 | 3931 | 339.00 | 148 |
| 78.00 | 14246 | 160.00 | 3864 | 244.00 | 58560 | 340.00 | 135 |
| 79.00 | 13356 | 161.00 | 5891 | 245.00 | 7760 | 341.00 | 1142 |
| 80.00 | 10539 | 162.00 | 1637 | 246.00 | 11941 | 342.00 | 277 |
| 81.00 | 15173 | 163.00 | 475 | 247.00 | 2526 | 346.00 | 2192 |
| 82.00 | 3906 | 164.00 | 608 | 248.00 | 602 | 347.00 | 346 |
| 83.00 | 3545 | 165.00 | 4507 | 249.00 | 2169 | 351.00 | 182 |
| 84.00 | 178 | 166.00 | 3807 | 250.00 | 370 | 352.00 | 3059 |
| 85.00 | 2559 | 167.00 | 24880 | 251.00 | 462 | 353.00 | 1950 |
| 86.00 | 4226 | 168.00 | 11639 | 252.00 | 590 | 354.00 | 3010 |
| 87.00 | 1998 | 169.00 | 2046 | 253.00 | 1331 | 355.00 | 569 |
| 88.00 | 783 | 170.00 | 776 | 255.00 | 296384 | 359.00 | 242 |
| 89.00 | 418 | 171.00 | 1036 | 256.00 | 43272 | 365.00 | 13085 |
| 91.00 | 3237 | 172.00 | 2248 | 257.00 | 3394 | 366.00 | 1813 |
| 92.00 | 3764 | 173.00 | 2906 | 258.00 | 18176 | 367.00 | 150 |

| | | | | | | | |
|--------|--------|--------|--------|--------|--------|--------|--------|
| 93.00 | 24104 | 174.00 | 5113 | 259.00 | 2926 | 370.00 | 291 |
| 94.00 | 1672 | 175.00 | 9851 | 260.00 | 520 | 371.00 | 690 |
| 95.00 | 503 | 176.00 | 2588 | 261.00 | 479 | 372.00 | 4605 |
| 96.00 | 1130 | 177.00 | 4756 | 262.00 | 60 | 373.00 | 1002 |
| 97.00 | 380 | 178.00 | 1657 | 263.00 | 151 | 374.00 | 50 |
| 98.00 | 17936 | 179.00 | 18424 | 264.00 | 377 | 377.00 | 67 |
| 99.00 | 14658 | 180.00 | 12975 | 265.00 | 6992 | 383.00 | 1157 |
| 100.00 | 1303 | 181.00 | 6000 | 266.00 | 984 | 384.00 | 328 |
| 101.00 | 8724 | 182.00 | 963 | 267.00 | 105 | 385.00 | 50 |
| 102.00 | 480 | 183.00 | 493 | 268.00 | 248 | 390.00 | 595 |
| 103.00 | 2859 | 184.00 | 1456 | 270.00 | 285 | 391.00 | 401 |
| 104.00 | 5461 | 185.00 | 9317 | 271.00 | 631 | 392.00 | 204 |
| 105.00 | 5056 | 186.00 | 70384 | 272.00 | 750 | 401.00 | 211 |
| 106.00 | 1781 | 187.00 | 20112 | 273.00 | 8749 | 402.00 | 1564 |
| 107.00 | 67936 | 188.00 | 2185 | 274.00 | 23296 | 403.00 | 2292 |
| 108.00 | 10471 | 189.00 | 4453 | 275.00 | 129008 | 404.00 | 796 |
| 109.00 | 595 | 190.00 | 772 | 276.00 | 17320 | 405.00 | 237 |
| 110.00 | 122760 | 191.00 | 2090 | 277.00 | 11470 | 421.00 | 1827 |
| 111.00 | 18400 | 192.00 | 5915 | 278.00 | 2005 | 422.00 | 1658 |
| 112.00 | 2357 | 193.00 | 6863 | 279.00 | 468 | 423.00 | 12304 |
| 113.00 | 756 | 194.00 | 1470 | 281.00 | 147 | 424.00 | 2795 |
| 114.00 | 128 | 195.00 | 841 | 282.00 | 368 | 425.00 | 263 |
| 115.00 | 298 | 196.00 | 14341 | 283.00 | 1453 | 441.00 | 31664 |
| 116.00 | 3871 | 198.00 | 518272 | 284.00 | 874 | 442.00 | 221824 |
| 117.00 | 54088 | 199.00 | 35680 | 285.00 | 2012 | 443.00 | 41072 |
| 118.00 | 3919 | 200.00 | 2830 | 286.00 | 333 | 444.00 | 3778 |
| 119.00 | 531 | 201.00 | 2302 | 288.00 | 146 | 445.00 | 177 |
| 120.00 | 920 | 203.00 | 3657 | 289.00 | 446 | | |
| 121.00 | 362 | 204.00 | 18200 | 290.00 | 444 | | |
| 122.00 | 4396 | 205.00 | 31664 | 291.00 | 199 | | |
| 123.00 | 6778 | 206.00 | 132736 | 292.00 | 486 | | |



INITIAL CALIBRATION DATA
EPA 8270E-SIM

| | | | |
|-------------------|---------------------------|-------------|-----------------|
| Laboratory: | Analytical Resources, LLC | SDG: | 23A0180 |
| Client: | Anchor QEA, LLC | Project: | AOC5 MR Phase 1 |
| Calibration: | GC00049 | Instrument: | NT10 |
| Calibration Date: | 03/15/2023 | Column (1): | ZB-5MSi |

Calibration Comments: SIM ABN ICAL

| Compound | Level 01 | | Level 02 | | Level 03 | | Level 04 | | Level 05 | | Level 06 | |
|------------------------|----------|--------------|----------|--------------|----------|--------------|----------|--------------|----------|-----------|----------|-----------|
| | Conc | RRF | Conc | RRF | Conc | RRF | Conc | RRF | Conc | RRF | Conc | RRF |
| 1,4-Dichlorobenzene | 0.05 | 1.592272 | 0.1 | 1.586931 | 0.2 | 1.531032 | 0.5 | 1.525923 | 1 | 1.515432 | 2.5 | 1.504782 |
| 1,2-Dichlorobenzene | 0.05 | 1.56064 | 0.1 | 1.560751 | 0.2 | 1.516719 | 0.5 | 1.51987 | 1 | 1.490507 | 2.5 | 1.472424 |
| Benzyl Alcohol | 0.05 | 0.782671 | 0.1 | 0.8201691 | 0.2 | 0.8740273 | 0.5 | 1.001336 | 1 | 1.030407 | 2.5 | 1.109109 |
| Benzoic acid | 0.2 | | 0.4 | | 0.8 | 6.708155E-03 | 2 | 6.190403E-02 | 4 | 0.1152489 | 10 | 0.1827842 |
| 2,4-Dimethylphenol | 0.1 | 0.3036003 | 0.2 | 0.3286116 | 0.4 | 0.3508719 | 1 | 0.3747964 | 2 | 0.3711962 | 5 | 0.3672727 |
| 1,2,4-Trichlorobenzene | 0.05 | 0.3845889 | 0.1 | 0.3611836 | 0.2 | 0.3536726 | 0.5 | 0.3564226 | 1 | 0.3477346 | 2.5 | 0.3419587 |
| N-Nitrosodiphenylamine | 0.05 | 0.4535426 | 0.1 | 0.5106592 | 0.2 | 0.5366733 | 0.5 | 0.5716845 | 1 | 0.5845597 | 2.5 | 0.5722409 |
| Pentachlorophenol | 0.1 | 2.310914E-02 | 0.2 | 3.752894E-02 | 0.4 | 5.531502E-02 | 1 | 8.792089E-02 | 2 | 0.1125666 | 5 | 0.1349126 |
| 2-Fluorophenol | 0.075 | 1.096851 | 0.15 | 1.182501 | 0.3 | 1.198448 | 0.75 | 1.278705 | 1.5 | 1.28736 | 3.75 | 1.294114 |
| p-Terphenyl-d14 | 0.05 | 0.6363201 | 0.1 | 0.6085315 | 0.2 | 0.6174532 | 0.5 | 0.6484741 | 1 | 0.6506625 | 2.5 | 0.6938122 |



INITIAL CALIBRATION DATA
EPA 8270E-SIM

| | | | |
|-------------------|---------------------------|-------------|-----------------|
| Laboratory: | Analytical Resources, LLC | SDG: | 23A0180 |
| Client: | Anchor QEA, LLC | Project: | AOC5 MR Phase 1 |
| Calibration: | GC00049 | Instrument: | NT10 |
| Calibration Date: | 03/15/2023 | Column (1): | ZB-5MSi |

Calibration Comments: SIM ABN ICAL

| Compound | Level 07 | | Level 08 | | Level 09 | | Level 10 | | Level 11 | | Level 12 | |
|------------------------|----------|-----------|----------|-----------|----------|-----|----------|-----|----------|-----|----------|-----|
| | Conc | RRF | Conc | RRF | Conc | RRF | Conc | RRF | Conc | RRF | Conc | RRF |
| 1,4-Dichlorobenzene | 5 | 1.407857 | 10 | 1.361355 | | | | | | | | |
| 1,2-Dichlorobenzene | 5 | 1.378422 | 10 | 1.327177 | | | | | | | | |
| Benzyl Alcohol | 5 | 1.078683 | 10 | 1.021686 | | | | | | | | |
| Benzoic acid | 20 | 0.2157908 | 40 | 0.2329458 | | | | | | | | |
| 2,4-Dimethylphenol | 10 | 0.3419758 | 20 | 0.3276736 | | | | | | | | |
| 1,2,4-Trichlorobenzene | 5 | 0.3213898 | 10 | 0.3155673 | | | | | | | | |
| N-Nitrosodiphenylamine | 5 | 0.5475779 | 10 | 0.5164376 | | | | | | | | |
| Pentachlorophenol | 10 | 0.1437906 | 20 | 0.1522559 | | | | | | | | |
| 2-Fluorophenol | 7.5 | 1.204517 | 15 | 1.16136 | | | | | | | | |
| p-Terphenyl-d14 | 5 | 0.6837 | 10 | 0.6749908 | | | | | | | | |



INITIAL CALIBRATION DATA
EPA 8270E-SIM

| | | | |
|-------------------|---------------------------|-------------|-----------------|
| Laboratory: | Analytical Resources, LLC | SDG: | 23A0180 |
| Client: | Anchor QEA, LLC | Project: | AOC5 MR Phase 1 |
| Calibration: | GC00049 | Instrument: | NT10 |
| Calibration Date: | 03/15/2023 | Column (1): | ZB-5MSi |

Calibration Comments: SIM ABN ICAL

| COMPOUND | Mean RRF | RRF RSD | Linear COD | Quad COD | Limit Type & Limit | Q |
|------------------------|--------------|---------|------------|----------|--------------------|---|
| 1,4-Dichlorobenzene | 1.503198 | 5.4 | | | RSD (15) | |
| 1,2-Dichlorobenzene | 1.478314 | 5.7 | | | RSD (15) | |
| Benzyl Alcohol | 0.964761 | 12.7 | | | RSD (15) | |
| Benzoic acid | 0.135897 | 66.3 | | 0.9947 | QCOD (0.99) | |
| 2,4-Dimethylphenol | 0.3457498 | 7.2 | | | RSD (15) | |
| 1,2,4-Trichlorobenzene | 0.3478148 | 6.3 | | | RSD (15) | |
| N-Nitrosodiphenylamine | 0.536672 | 8.0 | | | RSD (15) | |
| Pentachlorophenol | 9.342496E-02 | 53.7 | | 0.9990 | QCOD (0.99) | |
| 2-Fluorophenol | 1.212982 | 5.7 | | | RSD (15) | |
| p-Terphenyl-d14 | 0.651743 | 4.7 | | | RSD (15) | |



ANALYSIS SEQUENCE

SLC0238

Instrument ID: NT10 GCMS Description: Agilent 5975/MS http://bi
Calibration ID: GC00049 GCMS Column ID: L002830
MS EM Level: 1271 EV

| Lab Number | Sample Name | Analysis | Container | Order | STD ID | ISTD ID | Analyzed | File ID | Analyst | Comments |
|--------------|-------------------|----------|-----------|-------|---------|---------|------------------|---------------|---------|----------|
| SLC0238-TUN1 | MS Tune | QC | | 1 | L002618 | | 03/15/2023 20:19 | NT10031501S.D | JGR | |
| SLC0238-CAL8 | ABN 10.0 | QC | | 2 | K011110 | K010831 | 03/15/2023 21:12 | NT10031503S.D | JGR | |
| SLC0238-CAL7 | ABN 5.0 | QC | | 3 | K011109 | K010831 | 03/15/2023 21:50 | NT10031504S.D | JGR | |
| SLC0238-CAL6 | ABN 2.5 | QC | | 4 | K011108 | K010831 | 03/15/2023 22:28 | NT10031505S.D | JGR | |
| SLC0238-CAL5 | ABN 1.0 | QC | | 5 | K011107 | K010831 | 03/15/2023 23:06 | NT10031506S.D | JGR | |
| SLC0238-CAL4 | ABN 0.5 | QC | | 6 | K011106 | K010831 | 03/15/2023 23:44 | NT10031507S.D | JGR | |
| SLC0238-CAL3 | ABN 0.2 | QC | | 7 | K011105 | K010831 | 03/16/2023 00:22 | NT10031508S.D | JGR | |
| SLC0238-CAL2 | ABN 0.1 | QC | | 8 | L002877 | K010831 | 03/16/2023 01:00 | NT10031509S.D | JGR | |
| SLC0238-CAL1 | ABN 0.05 | QC | | 9 | L002878 | K010831 | 03/16/2023 01:38 | NT10031510S.D | JGR | |
| SLC0238-SCV1 | SCV 5.0 | QC | | 10 | K010066 | K010831 | 03/16/2023 02:16 | NT10031511S.D | JGR | |
| SLC0238-ICB1 | Initial Cal Blank | QC | | 11 | K005156 | K010831 | 03/16/2023 02:54 | NT10031512S.D | JGR | |

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230315.b\20230315.b

| Time | Filename | LabID | ClientId | DF |
|---------|---------------|----------------|----------|---|
| 1 2019 | NT10031501S.D | SLC0238-TUN1 | | 1 NO ISTDS FOUND |
| 2 2034 | NT10031502S.D | FULL SCAN ONLY | | 1 9.31 193857 11.78 709633 15.39 344841 18.43 635594 23.46 392013 26.19 449978 |
| 3 2112 | NT10031503S.D | SLC0238-CAL8 | | 1 9.31 192425 11.78 689875 15.39 341663 18.42 651934 23.45 482051 26.19 502718 |
| 4 2150 | NT10031504S.D | SLC0238-CAL7 | | 1 9.30 187419 11.77 682446 15.38 331603 18.42 598629 23.45 389338 26.19 466441 |
| 5 2228 | NT10031505S.D | SLC0238-CAL6 | | 1 9.30 173412 11.78 624286 15.38 310309 18.43 554860 23.46 385144 26.19 456369 |
| 6 2306 | NT10031506S.D | SLC0238-CAL5 | | 1 9.30 188081 11.77 674549 15.39 328275 18.42 597140 23.45 466503 26.19 518203 |
| 7 2344 | NT10031507S.D | SLC0238-CAL4 | | 1 9.30 191648 11.77 679665 15.39 335786 18.42 613961 23.45 464623 26.19 521317 |
| 8 0022 | NT10031508S.D | SLC0238-CAL3 | | 1 9.30 188644 11.78 664117 15.38 328147 18.42 603272 23.46 468991 26.18 525052 |
| 9 0100 | NT10031509S.D | SLC0238-CAL2 | | 1 9.30 190985 11.77 684638 15.39 328366 18.42 602202 23.45 451316 26.19 517188 |
| 10 0138 | NT10031510S.D | SLC0238-CAL1 | | 1 9.30 187154 11.78 654413 15.38 318969 18.42 583319 23.46 440533 26.19 488759 |
| 11 0216 | NT10031511S.D | SLC0238-SCV1 | | 1 9.31 166866 11.78 612104 15.39 302524 18.43 553619 23.46 465428 26.19 532593 |
| 12 0254 | NT10031512S.D | SLC0238-ICB1 | | 1 9.31 189475 11.77 676186 15.38 328650 18.42 617605 23.45 473513 26.19 534734 |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230315.b\20230315.b

Instrument: nt10.i Date: 15-MAR-2023

| Time | Filename | LabID | DF | Manually Integrated Compounds |
|------|---------------|----------------|----|-------------------------------|
| 2019 | NT10031501S.D | SLC0238-TUN1 | 1 | NO MANUAL INTEGRATION |
| 2034 | NT10031502S.D | FULL SCAN ONLY | 1 | NO MANUAL INTEGRATION |
| 2112 | NT10031503S.D | SLC0238-CAL8 | 1 | NO MANUAL INTEGRATION |
| 2150 | NT10031504S.D | SLC0238-CAL7 | 1 | NO MANUAL INTEGRATION |
| 2228 | NT10031505S.D | SLC0238-CAL6 | 1 | NO MANUAL INTEGRATION |
| 2306 | NT10031506S.D | SLC0238-CAL5 | 1 | NO MANUAL INTEGRATION |
| 2344 | NT10031507S.D | SLC0238-CAL4 | 1 | NO MANUAL INTEGRATION |
| 0022 | NT10031508S.D | SLC0238-CAL3 | 1 | Benzoic acid, |
| 0100 | NT10031509S.D | SLC0238-CAL2 | 1 | Pentachlorophenol, |
| 0138 | NT10031510S.D | SLC0238-CAL1 | 1 | Pentachlorophenol, |
| 0216 | NT10031511S.D | SLC0238-SCV1 | 1 | Terphenyl-d14, |
| 0254 | NT10031512S.D | SLC0238-ICB1 | 1 | NO MANUAL INTEGRATION |

Security Status Report

Date: 16-Mar-2023 14:47

| | | |
|---------------|-------------|------------------------|
| NT10031501S.D | Data Locked | van, 16-Mar-2023 14:47 |
| NT10031502S.D | Data Locked | van, 16-Mar-2023 14:47 |
| NT10031503S.D | Data Locked | van, 16-Mar-2023 14:47 |
| NT10031504S.D | Data Locked | van, 16-Mar-2023 14:47 |
| NT10031505S.D | Data Locked | van, 16-Mar-2023 14:47 |
| NT10031506S.D | Data Locked | van, 16-Mar-2023 14:47 |
| NT10031507S.D | Data Locked | van, 16-Mar-2023 14:47 |
| NT10031508S.D | Data Locked | van, 16-Mar-2023 14:47 |
| NT10031509S.D | Data Locked | van, 16-Mar-2023 14:47 |
| NT10031510S.D | Data Locked | van, 16-Mar-2023 14:47 |
| NT10031511S.D | Data Locked | van, 16-Mar-2023 14:47 |
| NT10031512S.D | Data Locked | van, 16-Mar-2023 14:47 |

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 15-MAR-2023 21:12
 End Cal Date : 16-MAR-2023 01:38
 Quant Method : ISTD
 Origin : Force
 Target Version : 4.14
 Integrator : HP RTE
 Method file : \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
 Last Edit : 16-Mar-2023 14:34 van

Calibration File Names:

- Level 1: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031510S.D
- Level 2: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031509S.D
- Level 3: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031508S.D
- Level 4: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031507S.D
- Level 5: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031506S.D
- Level 6: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031505S.D
- Level 7: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031504S.D
- Level 8: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031503S.D

| Compound | 0.0500000 | 0.1000000 | 0.2000000 | 0.5000000 | 1.0000 | 2.5000 | Curve | b | Coefficients | | %RSD or R ² |
|---------------------|-----------|-----------|-----------|-----------|---------|---------|-------|---|--------------|----|---------------------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | | m1 | m2 | |
| | 5.0000 | 10.0000 | | | | | | | | | |
| | Level 7 | Level 8 | | | | | | | | | |
| 138 Chlorobenzilate | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | +++++ | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 139 Isodrin | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | +++++ | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 140 Diallate A | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | +++++ | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 15-MAR-2023 21:12
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 Quant Method : ISTD
 Origin : Force
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 Integrator : HP RTE
 Method file : \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
 Last Edit : 16-Mar-2023 14:34 van

| Compound | 0.0500000 | 0.1000000 | 0.2000000 | 0.5000000 | 1.0000 | 2.5000 | Curve | b | Coefficients | | %RSD or R^2 |
|---------------------------------|-----------|-----------|-----------|-----------|---------|---------|-------|---|--------------|----|----------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | | m1 | m2 | |
| | 5.0000 | 10.0000 | | | | | | | | | |
| | Level 7 | Level 8 | | | | | | | | | |
| 141 Diallate B | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | ++++ | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 142 1,2-Dibromo-3-Chloropropane | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | ++++ | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 135 2,3,5,6-Tetrachlorophenol | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | ++++ | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 136 2,3,4,5-tetrachlorophenol | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | ++++ | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 137 NewCpnd_131 | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | ++++ | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 133 Butylatedhydroxytoluene | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | ++++ | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 132 3,6-Dimethylphenanthrene | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | ++++ | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |

ARI Labs, Inc.

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Start Cal Date : 15-MAR-2023 21:12
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 Integrator : HP RTE
 Method file : \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
 Last Edit : 16-Mar-2023 14:34 van

| Compound | 0.0500000 | 0.1000000 | 0.2000000 | 0.5000000 | 1.0000 | 2.5000 | Curve | b | Coefficients | | %RSD or R^2 |
|-----------------------------|-----------|-----------|-----------|-----------|---------|---------|-------|---|--------------|----|----------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | | m1 | m2 | |
| | 5.0000 | 10.0000 | | | | | | | | | |
| | Level 7 | Level 8 | | | | | | | | | |
| 131 1-Methylphenanthrene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | +++++ | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 146 Benzo(j)fluoranthene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | +++++ | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 130 Dibenzothiophene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | +++++ | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 129 1-Methylfluorene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | +++++ | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 128 N-Hexadecane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | +++++ | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 127 2-Isopropyl-naphthalene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | +++++ | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 126 N-Tetradecane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | +++++ | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |

ARI Labs, Inc.

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 Last Edit : 16-Mar-2023 14:34 van

| Compound | 0.0500000 | 0.1000000 | 0.2000000 | 0.5000000 | 1.0000 | 2.5000 | Curve | b | Coefficients | | %RSD or R ² |
|------------------------|-----------|-----------|-----------|-----------|---------|---------|-------|---|--------------|----|---------------------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | | m1 | m2 | |
| | 5.0000 | 10.0000 | | | | | | | | | |
| | Level 7 | Level 8 | | | | | | | | | |
| 144 alpha-Terpineol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | +++++ | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 125 Safrole | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | +++++ | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 124 3,4-Dimethylphenol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | +++++ | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 123 Acetophenone | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | +++++ | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 122 Furfuraldehyde | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | +++++ | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 143 1,4-Dioxane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | +++++ | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 121 Quinoline | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | +++++ | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |

ARI Labs, Inc.

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 Last Edit : 16-Mar-2023 14:34 van

| Compound | 0.0500000 | 0.1000000 | 0.2000000 | 0.5000000 | 1.0000 | 2.5000 | Curve | b | Coefficients | | %RSD or R ² |
|-----------------------------------|-----------|-----------|-----------|-----------|---------|---------|-------|---|--------------|----|---------------------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | | m1 | m2 | |
| | 5.0000 | 10.0000 | | | | | | | | | |
| | Level 7 | Level 8 | | | | | | | | | |
| 120 2,3,4,6-Tetrachlorophenol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | +++++ | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 119 7,12-Dimethylbenz(a)anthracen | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | +++++ | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 118 Triphenyl Phosphate | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | +++++ | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 117 Butyl Diphenyl Phosphate | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | +++++ | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 116 Dibutyl Phenyl Phosphate | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | +++++ | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 115 Tributyl Phosphate | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | +++++ | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 114 Beta-Pinene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | +++++ | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |

ARI Labs, Inc.

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 Last Edit : 16-Mar-2023 14:34 van

| Compound | 0.0500000 | 0.1000000 | 0.2000000 | 0.5000000 | 1.0000 | 2.5000 | Curve | b | Coefficients | | %RSD or R ² |
|-----------------------------------|-----------|-----------|-----------|-----------|---------|---------|-------|---|--------------|----|---------------------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | | m1 | m2 | |
| 113 Diphenyl Oxide | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | +++++ | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 112 Biphenyl | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | +++++ | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 111 Azobenzene (1,2-DP-Hydrazine) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | +++++ | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 110 Tetrachloroguaiacol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | +++++ | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 109 3,4,5-Trichloroguaiacol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | +++++ | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 108 4,5,6-Trichloroguaiacol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | +++++ | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 107 4,5-Dichloro-2-Methoxyphenol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | +++++ | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |

ARI Labs, Inc.

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 Last Edit : 16-Mar-2023 14:34 van

| Compound | 0.0500000 | 0.1000000 | 0.2000000 | 0.5000000 | 1.0000 | 2.5000 | Curve | b | Coefficients | | %RSD or R^2 |
|---------------------------|-----------|-----------|-----------|-----------|---------|---------|-------|---|--------------|----|----------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | | m1 | m2 | |
| | 5.0000 | 10.0000 | | | | | | | | | |
| | Level 7 | Level 8 | | | | | | | | | |
| 106 Guaiacol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | +++++ | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 105 1-methylnaphthalene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | +++++ | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 3 Phenol | 1.56149 | 1.65772 | 1.68063 | 1.76515 | 1.75148 | 1.75667 | | | | | |
| | 1.62297 | 1.51697 | | | | | AVRG | | 1.66414 | | 5.59099 |
| 4 Bis(2-Chloroethyl)ether | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | +++++ | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 6 2-Chlorophenol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | +++++ | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 7 1,3-Dichlorobenzene | 1.66537 | 1.66694 | 1.59369 | 1.58637 | 1.56403 | 1.55057 | | | | | |
| | 1.44651 | 1.38404 | | | | | AVRG | | 1.55719 | | 6.34113 |
| 9 1,4-Dichlorobenzene | 1.59227 | 1.58693 | 1.53103 | 1.52592 | 1.51543 | 1.50478 | | | | | |
| | 1.40786 | 1.36136 | | | | | AVRG | | 1.50320 | | 5.36917 |

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 Last Edit : 16-Mar-2023 14:34 van

| Compound | 0.0500000 | 0.1000000 | 0.2000000 | 0.5000000 | 1.0000 | 2.5000 | Curve | b | Coefficients | | %RSD or R ² |
|---------------------------------|-----------|-----------|-----------|-----------|---------|---------|-------|---|--------------|----|---------------------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | | m1 | m2 | |
| | 5.0000 | 10.0000 | | | | | | | | | |
| | Level 7 | Level 8 | | | | | | | | | |
| 11 Benzyl alcohol | 0.78267 | 0.82017 | 0.87403 | 1.00134 | 1.03041 | 1.10911 | | | | | |
| | 1.07868 | 1.02169 | | | | | AVRG | | 0.96476 | | 12.69470 |
| 12 1,2-Dichlorobenzene | 1.56064 | 1.56075 | 1.51672 | 1.51987 | 1.49051 | 1.47242 | | | | | |
| | 1.37842 | 1.32718 | | | | | AVRG | | 1.47831 | | 5.70440 |
| 13 2-Methylphenol | 1.10796 | 1.06982 | 1.09063 | 1.18375 | 1.19440 | 1.23938 | | | | | |
| | 1.18782 | 1.15101 | | | | | AVRG | | 1.15310 | | 5.09645 |
| 14 2,2'-oxybis(1-Chloropropane) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | +++++ | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 15 4-Methylphenol | 1.03102 | 1.10647 | 1.13727 | 1.24194 | 1.26988 | 1.30504 | | | | | |
| | 1.27388 | 1.22012 | | | | | AVRG | | 1.19820 | | 8.02665 |
| 16 N-Nitroso-di-n-propylamine | 0.74420 | 0.77640 | 0.80427 | 0.88191 | 0.89897 | 0.92866 | | | | | |
| | 0.89355 | 0.85105 | | | | | AVRG | | 0.84738 | | 7.74495 |
| 17 Hexachloroethane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | +++++ | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |

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Start Cal Date : 15-MAR-2023 21:12
 End Cal Date : 16-MAR-2023 01:38
 Quant Method : ISTD
 Origin : Force
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 Integrator : HP RTE
 Method file : \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
 Last Edit : 16-Mar-2023 14:34 van

| Compound | 0.0500000 | 0.1000000 | 0.2000000 | 0.5000000 | 1.0000 | 2.5000 | Curve | b | Coefficients | | %RSD or R^2 |
|-------------------------------|-----------|-----------|-----------|-----------|---------|---------|-------|------------|--------------|----------|----------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | | m1 | m2 | |
| | 5.0000 | 10.0000 | | | | | | | | | |
| | Level 7 | Level 8 | | | | | | | | | |
| 19 Nitrobenzene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | +++++ | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 20 Isophorone | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | +++++ | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 21 2-Nitrophenol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | +++++ | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 22 2,4-Dimethylphenol | 0.30360 | 0.32861 | 0.35087 | 0.37480 | 0.37120 | 0.36727 | | | | | |
| | 0.34198 | 0.32767 | | | | | AVRG | | 0.34575 | | 7.24468 |
| 23 Bis(2-Chloroethoxy)methane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | +++++ | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 24 Benzoic acid | +++++ | +++++ | 891 | 21037 | 77741 | 285274 | | | | | |
| | 736328 | 1607035 | | | | | QUAD | 0.000e+000 | 5.29174 | -0.43541 | 0.99817 |
| 25 2,4-Dichlorophenol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | +++++ | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |

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| Compound | 0.0500000 | 0.1000000 | 0.2000000 | 0.5000000 | 1.0000 | 2.5000 | Curve | b | Coefficients | | %RSD or R ² |
|------------------------------|-----------|-----------|-----------|-----------|---------|---------|-------|---|--------------|----|---------------------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | | m1 | m2 | |
| | 5.0000 | 10.0000 | | | | | | | | | |
| | Level 7 | Level 8 | | | | | | | | | |
| 26 1,2,4-Trichlorobenzene | 0.38459 | 0.36118 | 0.35367 | 0.35642 | 0.34773 | 0.34196 | | | | | |
| | 0.32139 | 0.31557 | | | | | AVRG | | 0.34781 | | 6.34752 |
| 28 Naphthalene | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | ++++ | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 29 4-Chloroaniline | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | ++++ | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 30 Hexachlorobutadiene | 0.23044 | 0.21302 | 0.21319 | 0.21525 | 0.21116 | 0.21214 | | | | | |
| | 0.19866 | 0.19786 | | | | | AVRG | | 0.21146 | | 4.82681 |
| 31 4-Chloro-3-methylphenol | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | ++++ | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 32 2-Methylnaphthalene | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | ++++ | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 33 Hexachlorocyclopentadiene | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | ++++ | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |

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| Compound | 0.0500000 | 0.1000000 | 0.2000000 | 0.5000000 | 1.0000 | 2.5000 | Curve | b | Coefficients | | %RSD or R^2 |
|--------------------------|-----------|-----------|-----------|-----------|---------|---------|-------|---|--------------|----|----------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | | m1 | m2 | |
| | 5.0000 | 10.0000 | | | | | | | | | |
| | Level 7 | Level 8 | | | | | | | | | |
| 34 2,4,6-Trichlorophenol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | +++++ | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 35 2,4,5-Trichlorophenol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | +++++ | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 37 2-Chloronaphthalene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | +++++ | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 38 2-Nitroaniline | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | +++++ | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 39 Dimethylphthalate | 1.27787 | 1.27224 | 1.24048 | 1.29313 | 1.32502 | 1.28149 | | | | | |
| | 1.22328 | 1.18473 | | | | | AVRG | | 1.26228 | | 3.49321 |
| 40 Acenaphthylene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | +++++ | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 41 2,6-Dinitrotoluene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | +++++ | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |

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| Compound | 0.0500000 | 0.1000000 | 0.2000000 | 0.5000000 | 1.0000 | 2.5000 | Curve | b | Coefficients | | %RSD or R^2 |
|-----------------------|-----------|-----------|-----------|-----------|---------|---------|-------|---|--------------|----|----------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | | m1 | m2 | |
| | 5.0000 | 10.0000 | | | | | | | | | |
| | Level 7 | Level 8 | | | | | | | | | |
| 43 3-Nitroaniline | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | +++++ | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 44 Acenaphthene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | +++++ | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 45 2,4-Dinitrophenol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | +++++ | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 46 Dibenzofuran | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | +++++ | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 47 4-Nitrophenol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | +++++ | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 48 2,4-Dinitrotoluene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | +++++ | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 49 Fluorene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | +++++ | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |

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| Compound | 0.0500000 | 0.1000000 | 0.2000000 | 0.5000000 | 1.0000 | 2.5000 | Curve | b | Coefficients | | %RSD or R ² |
|-------------------------------|---------------------|---------------------|-----------|-----------|---------|---------|-------|---|--------------|----|---------------------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | | m1 | m2 | |
| | 5.0000 | 10.0000 | | | | | | | | | |
| | Level 7 | Level 8 | | | | | | | | | |
| 50 Diethylphthalate | 1.09879 1.35423 | 1.17308 1.35415 | 1.27815 | 1.36289 | 1.42716 | 1.41289 | | | 1.30767 | | 8.92477 |
| 51 4-Chlorophenyl-phenylether | ++++ ++++ | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | | | 0.000e+000 | | 0.000e+000 |
| 52 4-Nitroaniline | ++++ ++++ | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | | | 0.000e+000 | | 0.000e+000 |
| 53 4,6-Dinitro-2-methylphenol | ++++ ++++ | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | | | 0.000e+000 | | 0.000e+000 |
| 54 N-Nitrosodiphenylamine | 0.45354 0.54758 | 0.51066 0.51644 | 0.53667 | 0.57168 | 0.58456 | 0.57224 | | | 0.53667 | | 7.99896 |
| 56 4-Bromophenyl-phenylether | ++++ ++++ | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | | | 0.000e+000 | | 0.000e+000 |
| 57 Hexachlorobenzene | 0.25043 0.23339 | 0.25088 0.22020 | 0.24115 | 0.24237 | 0.24203 | 0.24151 | | | 0.24025 | | 4.08944 |

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| Compound | 0.0500000 | 0.1000000 | 0.2000000 | 0.5000000 | 1.0000 | 2.5000 | Curve | b | Coefficients | | %RSD or R ² |
|------------------------|-----------|-----------|-----------|-----------|---------|---------|-------|------------|--------------|----------|---------------------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | | m1 | m2 | |
| | 5.0000 | 10.0000 | | | | | | | | | |
| | Level 7 | Level 8 | | | | | | | | | |
| 58 Pentachlorophenol | ++++ | 1130 | 3337 | 13495 | 33609 | 93572 | | | | | |
| | 215193 | 496304 | | | | | QUAD | 0.000e+000 | 7.54154 | -1.29368 | 0.99963 |
| 60 Phenanthrene | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | ++++ | | | | | AVRG | 0.000e+000 | | | 0.000e+000 |
| 61 Anthracene | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | ++++ | | | | | AVRG | 0.000e+000 | | | 0.000e+000 |
| 62 Carbazole | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | ++++ | | | | | AVRG | 0.000e+000 | | | 0.000e+000 |
| 63 Di-n-butylphthalate | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | ++++ | | | | | AVRG | 0.000e+000 | | | 0.000e+000 |
| 64 Fluoranthene | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | ++++ | | | | | AVRG | 0.000e+000 | | | 0.000e+000 |
| 65 Pyrene | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | ++++ | | | | | AVRG | 0.000e+000 | | | 0.000e+000 |

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|-------------------------------|----------------|----------------|-----------|-----------|---------|---------|-------|------|--------------|---------|---------------------------|------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | | m1 | m2 | | |
| | 5.0000 | 10.0000 | | | | | | | | | | |
| | Level 7 | Level 8 | | | | | | | | | | |
| 67 Butylbenzylphthalate | 1336 271734 | 3284 722761 | 7787 | 24470 | 56297 | 133147 | | QUAD | 0.000e+000 | 1.90264 | -0.15728 | 0.99983 |
| 68 Benzo(a)anthracene | ++++ ++++ | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | | AVRG | 0.000e+000 | | | 0.000e+000 |
| 70 3,3'-Dichlorobenzidine | ++++ ++++ | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | | AVRG | 0.000e+000 | | | 0.000e+000 |
| 71 Chrysene | ++++ ++++ | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | | AVRG | 0.000e+000 | | | 0.000e+000 |
| 72 bis(2-Ethylhexyl)phthalate | ++++ ++++ | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | | AVRG | 0.000e+000 | | | 0.000e+000 |
| 73 Di-n-octylphthalate | ++++ ++++ | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | | AVRG | 0.000e+000 | | | 0.000e+000 |
| 74 Benzo(b)fluoranthene | ++++ ++++ | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | | AVRG | 0.000e+000 | | | 0.000e+000 |

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|---------------------------|-----------|-----------|-----------|-----------|---------|---------|-------|------------|--------------|---------|----------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | | m1 | m2 | |
| | 5.0000 | 10.0000 | | | | | | | | | |
| | Level 7 | Level 8 | | | | | | | | | |
| 75 Benzo(k)fluoranthene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | +++++ | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 76 Benzo(a)pyrene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | +++++ | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 78 Indeno(1,2,3-cd)pyrene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | +++++ | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 79 Dibenzo(a,h)anthracene | 4785 | 11218 | 24266 | 72052 | 155363 | 368157 | | | | | |
| | 751404 | 1559411 | | | | | QUAD | 0.000e+000 | 0.76135 | 0.01405 | 0.99989 |
| 80 Benzo(g,h,i)perylene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | +++++ | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 90 N-Nitrosodimethylamine | 0.74719 | 0.78006 | 0.77776 | 0.82263 | 0.80430 | 0.80649 | | | | | |
| | 0.73835 | 0.67774 | | | | | AVRG | | 0.76932 | | 6.11057 |
| 91 Aniline | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | +++++ | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |

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| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | | m1 | m2 | |
| | 5.0000 | 10.0000 | | | | | | | | | |
| | Level 7 | Level 8 | | | | | | | | | |
| 92 1,2-Diphenylhydrazine | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | +++++ | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 93 Benzidine | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | +++++ | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 96 p-Cymene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | +++++ | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 97 Caffeine | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | +++++ | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 98 Retene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | +++++ | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 99 Perylene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | +++++ | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 100 3-beta-Coprostanol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | | | |
| | +++++ | +++++ | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |

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| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | | m1 | m2 | |
| | 5.0000 | 10.0000 | | | | | | | | | |
| | Level 7 | Level 8 | | | | | | | | | |
| 101 Cholesterol | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | ++++ | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 102 beta-Sitosterol | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | ++++ | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| 103 Pyridine | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | ++++ | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| \$ 1 2-Fluorophenol | 1.09685 | 1.18250 | 1.19845 | 1.27871 | 1.28736 | 1.29411 | | | | | |
| | 1.20452 | 1.16136 | | | | | AVRG | | 1.21298 | | 5.72847 |
| \$ 145 d8-1,4-Dioxane | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | ++++ | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| \$ 2 Phenol-d5 | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | ++++ | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| \$ 5 2-Chlorophenol-d4 | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | ++++ | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |

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|------------------------------|-----------|-----------|-----------|-----------|---------|---------|-------|---|--------------|----|----------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | | m1 | m2 | |
| | 5.0000 | 10.0000 | | | | | | | | | |
| | Level 7 | Level 8 | | | | | | | | | |
| \$ 10 1,2-Dichlorobenzene-d4 | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | ++++ | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| \$ 18 Nitrobenzene-d5 | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | ++++ | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| \$ 36 2-Fluorobiphenyl | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | ++++ | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| \$ 55 2,4,6-Tribromophenol | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | ++++ | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| \$ 66 Terphenyl-d14 | 0.63632 | 0.60853 | 0.61745 | 0.64847 | 0.65066 | 0.69381 | | | | | |
| | 0.68370 | 0.67499 | | | | | AVRG | | 0.65174 | | 4.72002 |
| \$ 85 p-Cresol-d4 | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | ++++ | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| \$ 86 Anthracene-d10 | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | ++++ | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 15-MAR-2023 21:12
 End Cal Date : 16-MAR-2023 01:38
 Quant Method : ISTD
 Origin : Force
 Target Version : 4.14
 Integrator : HP RTE
 Method file : \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
 Last Edit : 16-Mar-2023 14:34 van

| Compound | 0.0500000 | 0.1000000 | 0.2000000 | 0.5000000 | 1.0000 | 2.5000 | Curve | b | Coefficients | | %RSD or R^2 |
|---------------------------------|-----------|-----------|-----------|-----------|---------|---------|-------|---|--------------|----|----------------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | | m1 | m2 | |
| | 5.0000 | 10.0000 | | | | | | | | | |
| | Level 7 | Level 8 | | | | | | | | | |
| \$ 87 Fluoranthene-d10 | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | ++++ | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| \$ 88 Dibenz(a,h)anthracene-d14 | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | ++++ | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| \$ 89 Diphenyl-d10 | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | ++++ | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |
| \$ 95 D10-1-methylnaphthalene | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | | | | |
| | ++++ | ++++ | | | | | AVRG | | 0.000e+000 | | 0.000e+000 |

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 15-MAR-2023 21:12
 End Cal Date : 16-MAR-2023 01:38
 Quant Method : ISTD
 Origin : Force
 Target Version : 4.14
 Integrator : HP RTE
 Method file : \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
 Last Edit : 16-Mar-2023 14:34 van

| Curve | Formula | Units |
|----------|-----------------------------|----------|
| Averaged | Amt = Rsp/m1 | Response |
| Quad | Amt = b + m1*Rsp + m2*Rsp^2 | Response |

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
Batch File: \\target\share\chem3\nt10.i\20230315.b\20230315.b
Inst ID: nt10.i

ID: RT01 RT02 RT03 RT04 RT05 RT06 RT07 RT08
FILENAME: NT10031503S NT10031504S NT10031505S NT10031506S NT10031507S NT10031508S NT10031509S NT10031510S
INJ. DATE: 15-MAR-2023 15-MAR-2023 15-MAR-2023 15-MAR-2023 15-MAR-2023 16-MAR-2023 16-MAR-2023 16-MAR-2023
INJ. TIME: 21:12 21:50 22:28 23:06 23:44 00:22 01:00 01:38

Table with 13 columns: Compound, RT01, RT02, RT03, RT04, RT05, RT06, RT07, RT08, EXPEC RT, RT WINDOW, AVG RT, STD DEV. Rows include various chemical compounds like 2-Fluorophenol, Chlorobenzilate, Isodrin, etc.

Reviewer 1 _____ Date: _____
Reviewer 2 _____ Date: _____

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
Batch File: \\target\share\chem3\nt10.i\20230315.b\20230315.b
Inst ID: nt10.i

| Compound | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | RT07 | RT08 | EXPEC RT | RT WINDOW | AVG RT | STD DEV |
|--|-------|-------|-------|-------|-------|-------|-------|-------|----------|---------------|--------|---------|
| 127 2-Isopropyl-naphthalene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 23.349 | 22.849-23.849 | +++++ | +++++ |
| 126 N-Tetradecane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 22.474 | 21.974-22.974 | +++++ | +++++ |
| 144 alpha-Terpineol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 11.191 | 10.691-11.691 | +++++ | +++++ |
| 125 Safrole | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 17.779 | 17.279-18.279 | +++++ | +++++ |
| 124 3,4-Dimethylphenol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 16.310 | 15.810-16.810 | +++++ | +++++ |
| 123 Acetophenone | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 17.707 | 17.207-18.207 | +++++ | +++++ |
| 122 Furfuraldehyde | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 8.921 | 8.421-9.421 | +++++ | +++++ |
| 143 1,4-Dioxane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 3.736 | 3.236-4.236 | +++++ | +++++ |
| 145 d8-1,4-Dioxane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 2.914 | 2.414-3.414 | +++++ | +++++ |
| 121 Quinoline | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 20.148 | 19.648-20.648 | +++++ | +++++ |
| 120 2,3,4,6-Tetrachlorophenol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 15.588 | 15.088-16.088 | +++++ | +++++ |
| 119 7,12-Dimethylbenz(a)anthracene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 38.587 | 38.087-39.087 | +++++ | +++++ |
| 118 Triphenyl Phosphate | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 20.382 | 19.882-20.882 | +++++ | +++++ |
| 117 Butyl Diphenyl Phosphate | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 18.734 | 18.234-19.234 | +++++ | +++++ |
| 116 Dibutyl Phenyl Phosphate | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 16.987 | 16.487-17.487 | +++++ | +++++ |
| 115 Tributyl Phosphate | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 15.204 | 14.704-15.704 | +++++ | +++++ |
| 114 Beta-Pinene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 14.540 | 14.040-15.040 | +++++ | +++++ |
| 113 Diphenyl Oxide | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 21.586 | 21.086-22.086 | +++++ | +++++ |
| 112 Biphenyl | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 17.692 | 17.192-18.192 | +++++ | +++++ |
| 111 Azobenzene (1,2-Diphenylhydrazine) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 16.268 | 15.768-16.768 | +++++ | +++++ |
| 110 Tetrachloroguaiacol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 18.055 | 17.555-18.555 | +++++ | +++++ |
| 109 3,4,5-Trichloroguaiacol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 17.228 | 16.728-17.728 | +++++ | +++++ |

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
Batch File: \\target\share\chem3\nt10.i\20230315.b\20230315.b
Inst ID: nt10.i

| Compound | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | RT07 | RT08 | EXPEC RT | RT WINDOW | AVG RT | STD DEV |
|------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|----------|---------------|--------|---------|
| 108 4,5,6-Trichloroguaiaco | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 16.517 | 16.017-17.017 | +++++ | +++++ |
| 107 4,5-Dichloro-2-Methoxy | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 14.803 | 14.303-15.303 | +++++ | +++++ |
| 106 Guaiacol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 11.843 | 11.343-12.343 | +++++ | +++++ |
| 105 1-methylnaphthalene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 12.927 | 12.427-13.427 | +++++ | +++++ |
| \$ 2 Phenol-d5 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 8.235 | 7.735-8.735 | +++++ | +++++ |
| 3 Phenol | 8.664 | 8.665 | 8.657 | 8.657 | 8.657 | 8.657 | 8.657 | 8.665 | 8.665 | 8.165-9.165 | 8.660 | 0.004 |
| 4 Bis(2-Chloroethyl)ethe | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 8.397 | 7.897-8.897 | +++++ | +++++ |
| \$ 5 2-Chlorophenol-d4 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 8.490 | 7.990-8.990 | +++++ | +++++ |
| 6 2-Chlorophenol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 8.521 | 8.021-9.021 | +++++ | +++++ |
| 7 1,3-Dichlorobenzene | 9.236 | 9.237 | 9.237 | 9.237 | 9.237 | 9.237 | 9.237 | 9.237 | 9.237 | 8.737-9.737 | 9.237 | 0.000 |
| * 8 1,4-Dichlorobenzene-d4 | 9.306 | 9.299 | 9.299 | 9.299 | 9.299 | 9.299 | 9.299 | 9.299 | 9.299 | 8.799-9.799 | 9.300 | 0.003 |
| 9 1,4-Dichlorobenzene | 9.330 | 9.330 | 9.330 | 9.330 | 9.330 | 9.330 | 9.330 | 9.330 | 9.330 | 8.830-9.830 | 9.330 | 0.000 |
| \$ 10 1,2-Dichlorobenzene-d4 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 9.230 | 8.730-9.730 | +++++ | +++++ |
| 11 Benzyl alcohol | 9.562 | 9.563 | 9.563 | 9.563 | 9.563 | 9.563 | 9.563 | 9.570 | 9.570 | 9.070-10.070 | 9.564 | 0.003 |
| 12 1,2-Dichlorobenzene | 9.687 | 9.687 | 9.687 | 9.687 | 9.687 | 9.687 | 9.687 | 9.687 | 9.687 | 9.187-10.187 | 9.687 | 0.000 |
| 13 2-Methylphenol | 9.780 | 9.772 | 9.772 | 9.772 | 9.772 | 9.772 | 9.772 | 9.772 | 9.772 | 9.272-10.272 | 9.773 | 0.003 |
| 14 2,2'-oxybis(1-Chloropr | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 9.413 | 8.913-9.913 | +++++ | +++++ |
| 15 4-Methylphenol | 10.044 | 10.036 | 10.036 | 10.036 | 10.036 | 10.036 | 10.036 | 10.036 | 10.036 | 9.536-10.536 | 10.037 | 0.003 |
| 16 N-Nitroso-di-n-propyla | 10.121 | 10.114 | 10.114 | 10.114 | 10.114 | 10.114 | 10.114 | 10.114 | 10.114 | 9.614-10.614 | 10.115 | 0.003 |
| 17 Hexachloroethane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 9.809 | 9.309-10.309 | +++++ | +++++ |
| \$ 18 Nitrobenzene-d5 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 9.917 | 9.417-10.417 | +++++ | +++++ |
| 19 Nitrobenzene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 9.948 | 9.448-10.448 | +++++ | +++++ |
| 20 Isophorone | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 10.399 | 9.899-10.899 | +++++ | +++++ |
| 21 2-Nitrophenol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 10.575 | 10.075-11.075 | +++++ | +++++ |

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
Batch File: \\target\share\chem3\nt10.i\20230315.b\20230315.b
Inst ID: nt10.i

| Compound | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | RT07 | RT08 | EXPEC RT | RT WINDOW | AVG RT | STD DEV |
|---------------------------|--------|--------|--------|--------|--------|--------|--------|--------|----------|---------------|--------|---------|
| 22 2,4-Dimethylphenol | 11.086 | 11.086 | 11.079 | 11.078 | 11.086 | 11.079 | 11.086 | 11.087 | 11.087 | 10.587-11.587 | 11.083 | 0.004 |
| 23 Bis(2-Chloroethoxy)met | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 10.830 | 10.330-11.330 | +++++ | +++++ |
| 24 Benzoic acid | 11.332 | 11.273 | 11.223 | 11.188 | 11.171 | 11.189 | +++++ | +++++ | 11.189 | 10.689-11.689 | 11.229 | 0.062 |
| 25 2,4-Dichlorophenol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 11.033 | 10.533-11.533 | +++++ | +++++ |
| 26 1,2,4-Trichlorobenzene | 11.689 | 11.690 | 11.691 | 11.689 | 11.690 | 11.691 | 11.690 | 11.690 | 11.690 | 11.190-12.190 | 11.690 | 0.001 |
| * 27 Naphthalene-d8 | 11.782 | 11.775 | 11.775 | 11.774 | 11.775 | 11.775 | 11.775 | 11.775 | 11.775 | 11.275-12.275 | 11.776 | 0.003 |
| 28 Naphthalene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 11.326 | 10.826-11.826 | +++++ | +++++ |
| 29 4-Chloroaniline | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 11.457 | 10.957-11.957 | +++++ | +++++ |
| 30 Hexachlorobutadiene | 12.176 | 12.169 | 12.169 | 12.176 | 12.176 | 12.169 | 12.176 | 12.169 | 12.169 | 11.669-12.669 | 12.173 | 0.004 |
| 31 4-Chloro-3-methylpheno | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 12.432 | 11.932-12.932 | +++++ | +++++ |
| 32 2-Methylnaphthalene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 12.710 | 12.210-13.210 | +++++ | +++++ |
| 33 Hexachlorocyclopentadi | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 13.182 | 12.682-13.682 | +++++ | +++++ |
| 34 2,4,6-Trichlorophenol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 13.330 | 12.830-13.830 | +++++ | +++++ |
| 35 2,4,5-Trichlorophenol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 13.415 | 12.915-13.915 | +++++ | +++++ |
| \$ 36 2-Fluorobiphenyl | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 13.484 | 12.984-13.984 | +++++ | +++++ |
| 37 2-Chloronaphthalene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 13.686 | 13.186-14.186 | +++++ | +++++ |
| 38 2-Nitroaniline | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 13.941 | 13.441-14.441 | +++++ | +++++ |
| 39 Dimethylphthalate | 14.885 | 14.877 | 14.878 | 14.877 | 14.877 | 14.878 | 14.877 | 14.878 | 14.878 | 14.378-15.378 | 14.878 | 0.003 |
| 40 Acenaphthylene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 14.545 | 14.045-15.045 | +++++ | +++++ |
| 41 2,6-Dinitrotoluene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 14.506 | 14.006-15.006 | +++++ | +++++ |
| * 42 Acenaphthene-d10 | 15.388 | 15.380 | 15.381 | 15.388 | 15.388 | 15.381 | 15.388 | 15.381 | 15.381 | 14.881-15.881 | 15.384 | 0.004 |
| 43 3-Nitroaniline | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 14.785 | 14.285-15.285 | +++++ | +++++ |
| 44 Acenaphthene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 14.924 | 14.424-15.424 | +++++ | +++++ |

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
Batch File: \\target\share\chem3\nt10.i\20230315.b\20230315.b
Inst ID: nt10.i

| Compound | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | RT07 | RT08 | EXPEC RT | RT WINDOW | AVG RT | STD DEV |
|---------------------------|--------|--------|--------|--------|--------|--------|--------|--------|----------|---------------|--------|---------|
| 45 2,4-Dinitrophenol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 15.001 | 14.501-15.501 | +++++ | +++++ |
| 46 Dibenzofuran | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 15.248 | 14.748-15.748 | +++++ | +++++ |
| 47 4-Nitrophenol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 15.171 | 14.671-15.671 | +++++ | +++++ |
| 48 2,4-Dinitrotoluene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 15.302 | 14.802-15.802 | +++++ | +++++ |
| 49 Fluorene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 15.952 | 15.452-16.452 | +++++ | +++++ |
| 50 Diethylphthalate | 16.339 | 16.331 | 16.332 | 16.331 | 16.331 | 16.324 | 16.331 | 16.324 | 16.324 | 15.824-16.824 | 16.330 | 0.005 |
| 51 4-Chlorophenyl-phenyle | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 15.952 | 15.452-16.452 | +++++ | +++++ |
| 52 4-Nitroaniline | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 16.037 | 15.537-16.537 | +++++ | +++++ |
| 53 4,6-Dinitro-2-methylph | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 16.145 | 15.645-16.645 | +++++ | +++++ |
| 54 N-Nitrosodiphenylamine | 16.724 | 16.717 | 16.718 | 16.724 | 16.717 | 16.718 | 16.717 | 16.718 | 16.718 | 16.218-17.218 | 16.719 | 0.003 |
| 55 2,4,6-Tribromophenol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 16.477 | 15.977-16.977 | +++++ | +++++ |
| 56 4-Bromophenyl-phenylet | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 16.939 | 16.439-17.439 | +++++ | +++++ |
| 57 Hexachlorobenzene | 17.797 | 17.797 | 17.798 | 17.797 | 17.797 | 17.790 | 17.797 | 17.798 | 17.798 | 17.298-18.298 | 17.797 | 0.003 |
| 58 Pentachlorophenol | 18.153 | 18.146 | 18.154 | 18.153 | 18.154 | 18.154 | 18.154 | 18.154 | 18.154 | 17.654-18.654 | 18.153 | 0.003 |
| 59 Phenanthrene-d10 | 18.424 | 18.417 | 18.425 | 18.424 | 18.424 | 18.418 | 18.424 | 18.417 | 18.417 | 17.917-18.917 | 18.422 | 0.004 |
| 60 Phenanthrene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 17.899 | 17.399-18.399 | +++++ | +++++ |
| 61 Anthracene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 17.991 | 17.491-18.491 | +++++ | +++++ |
| 62 Carbazole | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 18.324 | 17.824-18.824 | +++++ | +++++ |
| 63 Di-n-butylphthalate | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 19.152 | 18.652-19.652 | +++++ | +++++ |
| 64 Fluoranthene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 20.289 | 19.789-20.789 | +++++ | +++++ |
| 65 Pyrene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 20.715 | 20.215-21.215 | +++++ | +++++ |
| 66 Terphenyl-d14 | 21.542 | 21.542 | 21.543 | 21.542 | 21.542 | 21.543 | 21.542 | 21.543 | 21.543 | 21.043-22.043 | 21.543 | 0.000 |
| 67 Butylbenzylphthalate | 22.464 | 22.456 | 22.465 | 22.464 | 22.464 | 22.465 | 22.464 | 22.465 | 22.465 | 21.965-22.965 | 22.463 | 0.003 |
| 68 Benzo(a)anthracene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 22.875 | 22.375-23.375 | +++++ | +++++ |

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
Batch File: \\target\share\chem3\nt10.i\20230315.b\20230315.b
Inst ID: nt10.i

| Compound | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | RT07 | RT08 | EXPEC RT | RT WINDOW | AVG RT | STD DEV |
|------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|----------|---------------|--------|---------|
| * 69 Chrysene-d12 | 23.455 | 23.455 | 23.456 | 23.455 | 23.455 | 23.456 | 23.455 | 23.456 | 23.456 | 22.956-23.956 | 23.455 | 0.000 |
| 70 3,3'-Dichlorobenzidine | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 22.844 | 22.344-23.344 | +++++ | +++++ |
| 71 Chrysene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 22.952 | 22.452-23.452 | +++++ | +++++ |
| 72 bis(2-Ethylhexyl)phtha | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 23.007 | 22.507-23.507 | +++++ | +++++ |
| 73 Di-n-octylphthalate | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 23.990 | 23.490-24.490 | +++++ | +++++ |
| 74 Benzo(b)fluoranthene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 24.687 | 24.187-25.187 | +++++ | +++++ |
| 75 Benzo(k)fluoranthene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 24.725 | 24.225-25.225 | +++++ | +++++ |
| 76 Benzo(a)pyrene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 25.283 | 24.783-25.783 | +++++ | +++++ |
| * 77 Perylene-d12 | 26.188 | 26.188 | 26.189 | 26.188 | 26.188 | 26.181 | 26.188 | 26.189 | 26.189 | 25.689-26.689 | 26.187 | 0.003 |
| 78 Indeno(1,2,3-cd)pyrene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 27.794 | 27.294-28.294 | +++++ | +++++ |
| 79 Dibenzo(a,h)anthracene | 29.033 | 29.018 | 29.019 | 29.010 | 29.010 | 29.003 | 29.010 | 29.019 | 29.019 | 28.519-29.519 | 29.015 | 0.009 |
| 80 Benzo(g,h,i)perylene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 28.494 | 27.994-28.994 | +++++ | +++++ |
| \$ 85 p-Cresol-d4 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 17.238 | 16.738-17.738 | +++++ | +++++ |
| \$ 86 Anthracene-d10 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 29.316 | 28.816-29.816 | +++++ | +++++ |
| \$ 87 Fluoranthene-d10 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 26.007 | 25.507-26.507 | +++++ | +++++ |
| \$ 88 Dibenz(a,h)anthracene- | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 44.609 | 44.109-45.109 | +++++ | +++++ |
| \$ 89 Diphenyl-d10 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 16.085 | 15.585-16.585 | +++++ | +++++ |
| 90 N-Nitrosodimethylamine | 4.941 | 4.933 | 4.926 | 4.941 | 4.941 | 4.941 | 4.941 | 4.949 | 4.949 | 4.449-5.449 | 4.939 | 0.007 |
| 91 Aniline | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 8.305 | 7.805-8.805 | +++++ | +++++ |
| 92 1,2-Diphenylhydrazine | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 21.615 | 21.115-22.115 | +++++ | +++++ |
| 93 Benzidine | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 20.529 | 20.029-21.029 | +++++ | +++++ |
| \$ 95 D10-1-methylnaphthalen | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 17.686 | 17.186-18.186 | +++++ | +++++ |
| 96 p-Cymene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 14.540 | 14.040-15.040 | +++++ | +++++ |
| 97 Caffeine | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 26.957 | 26.457-27.457 | +++++ | +++++ |

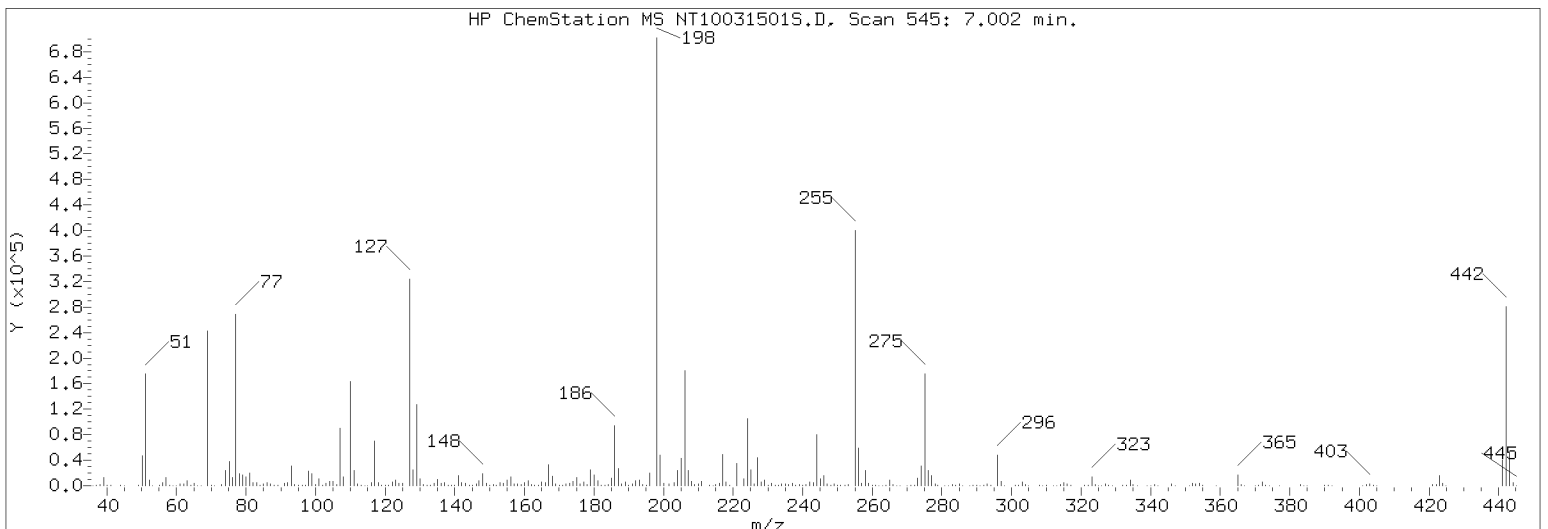
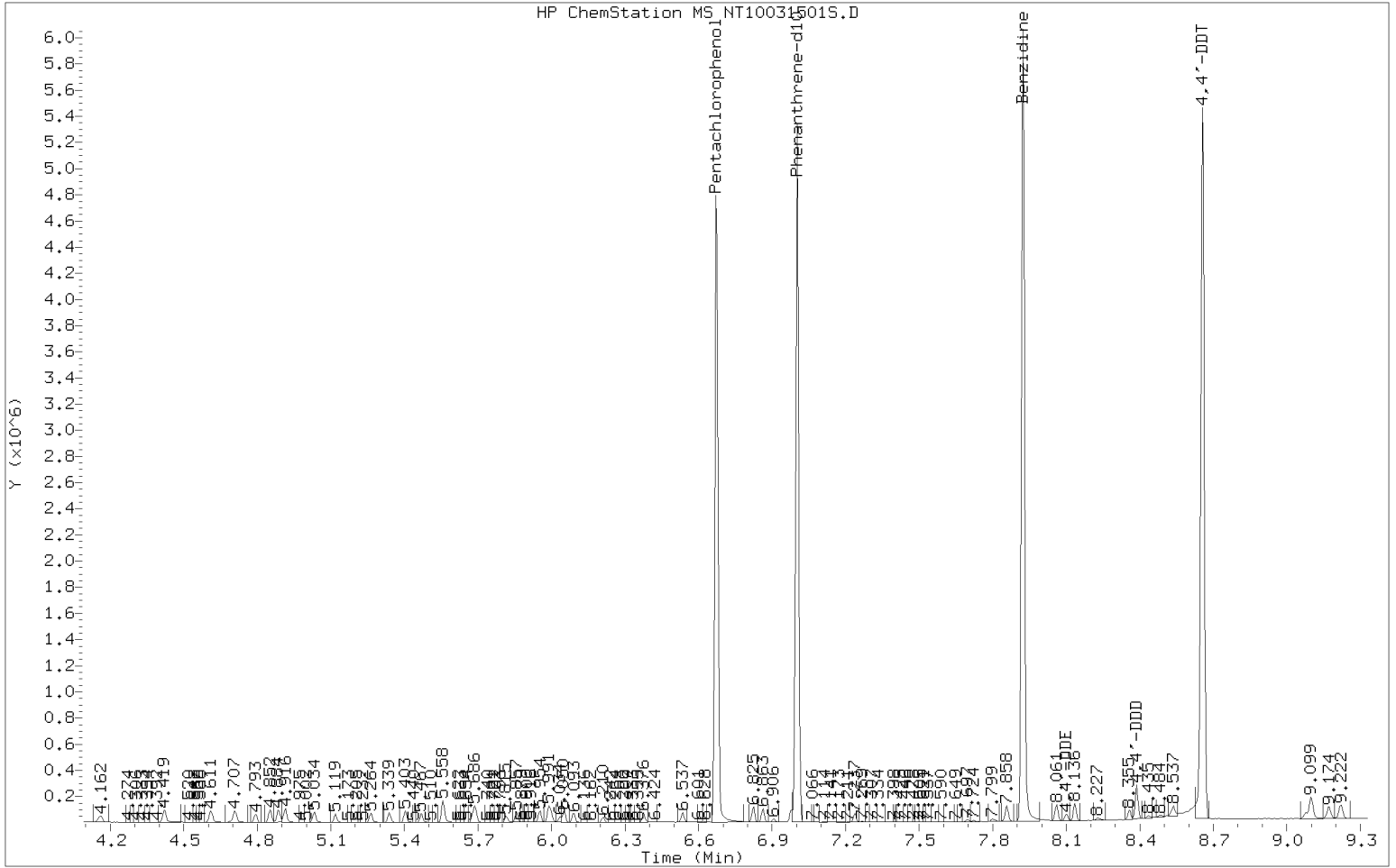
ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
Batch File: \\target\share\chem3\nt10.i\20230315.b\20230315.b
Inst ID: nt10.i

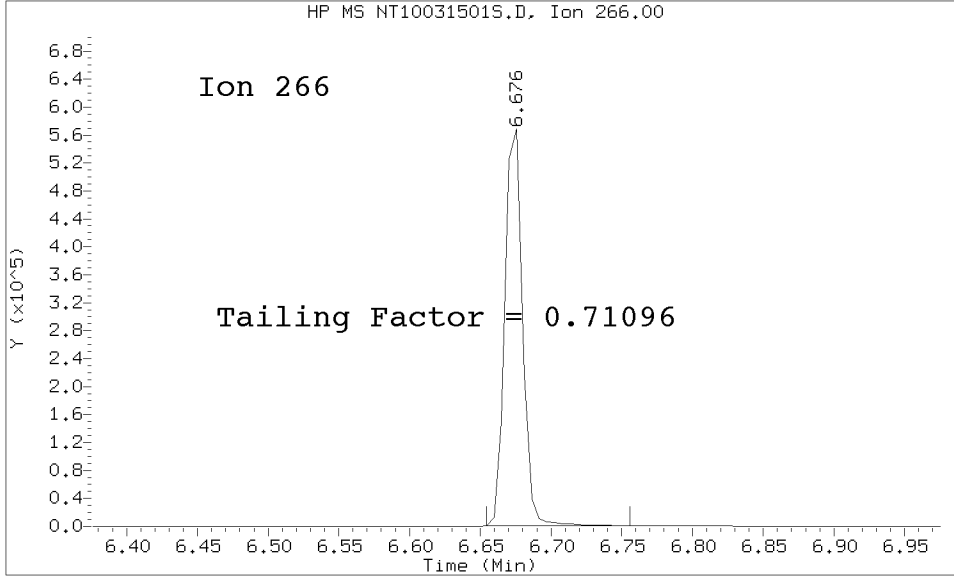
| Compound | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | RT07 | RT08 | EXPEC RT | RT WINDOW | AVG RT | STD DEV |
|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|----------|---------------|--------|---------|
| 98 Retene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 19.609 | 19.109-20.109 | +++++ | +++++ |
| 99 Perylene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 25.438 | 24.938-25.938 | +++++ | +++++ |
| 100 3-beta-Coprostanol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 26.384 | 25.884-26.884 | +++++ | +++++ |
| 101 Cholesterol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 43.881 | 43.381-44.381 | +++++ | +++++ |
| 102 beta-Sitosterol | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 45.573 | 45.073-46.073 | +++++ | +++++ |
| 103 Pyridine | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 4.535 | 4.035-5.035 | +++++ | +++++ |

DFTPP TAILING FACTOR AND BREAKDOWN GRAPHIC REPORT

Datafile Analyzed: /20230315.b/20230315.b/NT10031501S.D/NT10031501S.D
 Method Used: \20230315.b\20230315.b\DFTPP8270E.m Inst: nt10
 Injection Date: 15-MAR-2023 20:19 Operator: JGR
 Sample Info: SLC0238-TUN1 SLC0238-TUN1
 Report Date: 03/16/2023 14:49



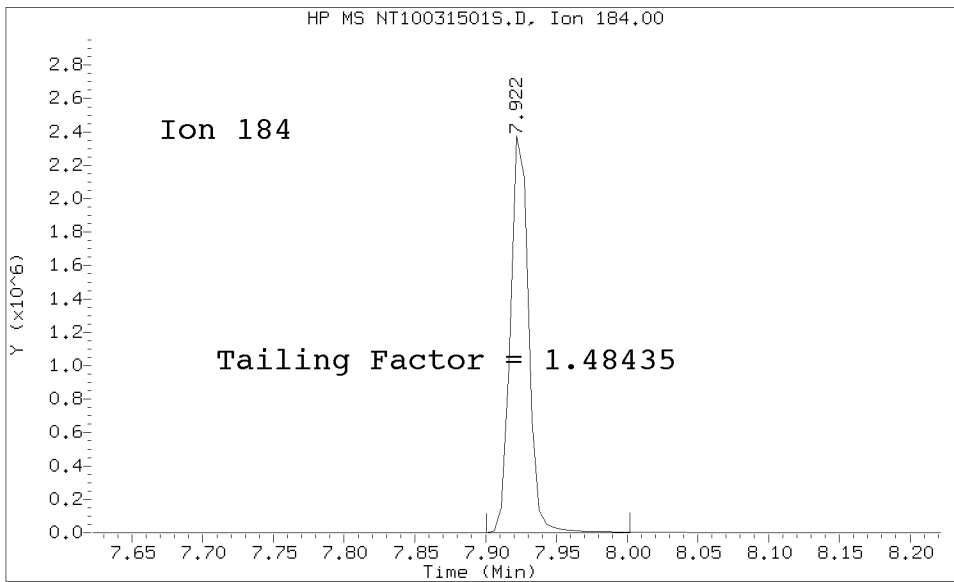
Datafile Analyzed: /20230315.b/20230315.b/NT10031501S.D/NT10031501S.D
Method Used: \20230315.b\20230315.b\DFTPP8270E.m\sw846ddt.m Inst: nt10
Injection Date: 15-MAR-2023 20:19 Operator: JGR
Sample Info: SEQ-TUN1
Report Date: 03/16/2023 14:49



Pentachlorophenol

=====
Exp. RT = 6.676
Found RT = 6.676

Tail Factor = 0.711 Maximum Allowed = 2.0



Benzidine

=====
Exp. RT = 7.922
Found RT = 7.922

Tail Factor = 1.484 Maximum Allowed = 2.0

8270 TAILING FACTOR/BREAKDOWN SUMMARY RESULTS

TAILING ANALYSIS SUMMARY

| Compound | Tail Factor | Max Allowed | Test |
|-------------------|-------------|-------------|------|
| Pentachlorophenol | 0.7109557 | 2.000 | PASS |
| Benzidine | 1.4843493 | 2.000 | PASS |

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

| Compound | Response | %Breakdown | Max Allowed | Test |
|---------------|----------|------------|-------------|------|
| 4,4-DDT | 962640 | | | N/A |
| 4,4-DDE | 5158 | 0.5 | 20.0 | PASS |
| 4,4-DDD | 41277 | 4.1 | 20.0 | PASS |
| 4,4-DDD + DDE | 46435 | 4.6 | 20.0 | PASS |

Tuning Sample, nt10.i/20230315.b/20230315.b/NT10031501S.D, *** PASSED ***

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 198 | Base Peak, 100% relative abundance | 100.00 |
| 68 | Less than 2.00% of mass 69 | 0.14 (0.37) |
| 69 | Mass 69 relative abundance | 36.50 |
| 70 | Less than 2.00% of mass 69 | 0.18 (0.50) |
| 197 | Less than 2.00% of mass 198 | 0.00 |
| 199 | 5.00 - 9.00% of mass 198 | 6.88 |
| 365 | 1.00 - 100.00% of mass 198 | 2.52 |
| 441 | Less than 150.00% of mass 443 | 6.11 (77.09) |
| 442 | Less than 200.00% of mass 198 | 42.80 |
| 443 | 15.00 - 24.00% of mass 442 | 7.92 (18.52) |

Data File: NT10031501S.D
Spectrum: Avg. Scans 544-546 (7.00), Background Scan 536
Location of Maximum: 198.00
Number of points: 316

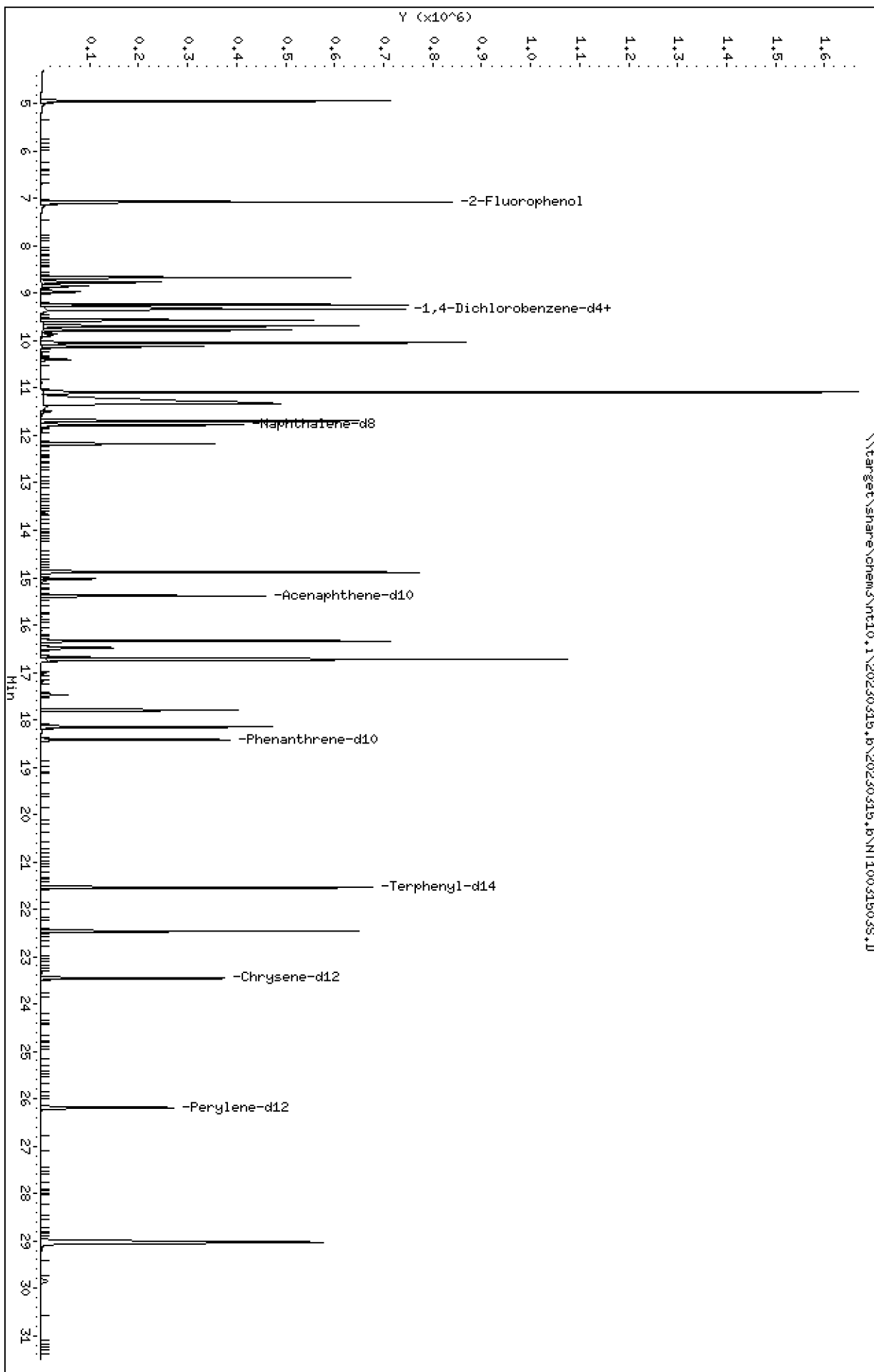
| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|-------|--------|--------|--------|--------|--------|--------|-------|
| 36.00 | 226 | 124.00 | 3185 | 207.00 | 17112 | 293.00 | 2318 |
| 37.00 | 575 | 125.00 | 2909 | 208.00 | 4722 | 294.00 | 588 |
| 38.00 | 1820 | 127.00 | 243264 | 209.00 | 1586 | 295.00 | 171 |
| 39.00 | 10159 | 128.00 | 18696 | 210.00 | 2002 | 296.00 | 36168 |
| 40.00 | 405 | 129.00 | 96304 | 211.00 | 5093 | 297.00 | 5056 |
| 41.00 | 312 | 130.00 | 8257 | 213.00 | 371 | 298.00 | 351 |
| 42.00 | 59 | 131.00 | 1626 | 214.00 | 74 | 301.00 | 422 |
| 45.00 | 283 | 132.00 | 820 | 215.00 | 1549 | 302.00 | 552 |
| 49.00 | 910 | 133.00 | 415 | 216.00 | 2822 | 303.00 | 4130 |
| 50.00 | 35800 | 134.00 | 2800 | 217.00 | 36520 | 304.00 | 1107 |
| 51.00 | 136000 | 135.00 | 7704 | 218.00 | 4515 | 305.00 | 126 |
| 52.00 | 7201 | 136.00 | 3195 | 219.00 | 360 | 308.00 | 532 |
| 53.00 | 294 | 137.00 | 3970 | 221.00 | 25672 | 309.00 | 330 |
| 55.00 | 668 | 138.00 | 948 | 222.00 | 2863 | 310.00 | 461 |
| 56.00 | 4206 | 139.00 | 563 | 223.00 | 8094 | 312.00 | 63 |
| 57.00 | 9877 | 140.00 | 1193 | 224.00 | 76160 | 313.00 | 360 |
| 58.00 | 478 | 141.00 | 12476 | 225.00 | 18680 | 314.00 | 1762 |
| 59.00 | 106 | 142.00 | 3876 | 226.00 | 2197 | 315.00 | 4011 |
| 60.00 | 125 | 143.00 | 2757 | 227.00 | 32752 | 316.00 | 2200 |
| 61.00 | 1897 | 144.00 | 726 | 228.00 | 4949 | 317.00 | 416 |
| 62.00 | 2103 | 145.00 | 710 | 229.00 | 6725 | 321.00 | 1068 |
| 63.00 | 6654 | 146.00 | 2200 | 230.00 | 933 | 322.00 | 491 |
| 64.00 | 895 | 147.00 | 6157 | 231.00 | 2854 | 323.00 | 10541 |
| 65.00 | 3279 | 148.00 | 13642 | 232.00 | 574 | 324.00 | 1817 |
| 66.00 | 188 | 149.00 | 2992 | 233.00 | 660 | 325.00 | 178 |
| 67.00 | 249 | 150.00 | 753 | 234.00 | 2022 | 326.00 | 218 |
| 68.00 | 704 | 151.00 | 1678 | 235.00 | 2475 | 327.00 | 2103 |
| 69.00 | 189184 | 152.00 | 893 | 236.00 | 1621 | 328.00 | 1092 |
| 70.00 | 943 | 153.00 | 4091 | 237.00 | 2803 | 329.00 | 211 |
| 71.00 | 156 | 154.00 | 3154 | 238.00 | 375 | 332.00 | 739 |
| 73.00 | 1307 | 155.00 | 6743 | 239.00 | 1387 | 333.00 | 975 |
| 74.00 | 18768 | 156.00 | 10344 | 240.00 | 943 | 334.00 | 6536 |
| 75.00 | 30000 | 157.00 | 2091 | 241.00 | 1718 | 335.00 | 1733 |
| 76.00 | 10364 | 158.00 | 2204 | 242.00 | 4096 | 336.00 | 201 |
| 77.00 | 207552 | 159.00 | 1689 | 243.00 | 3931 | 339.00 | 148 |
| 78.00 | 14246 | 160.00 | 3864 | 244.00 | 58560 | 340.00 | 135 |
| 79.00 | 13356 | 161.00 | 5891 | 245.00 | 7760 | 341.00 | 1142 |
| 80.00 | 10539 | 162.00 | 1637 | 246.00 | 11941 | 342.00 | 277 |
| 81.00 | 15173 | 163.00 | 475 | 247.00 | 2526 | 346.00 | 2192 |
| 82.00 | 3906 | 164.00 | 608 | 248.00 | 602 | 347.00 | 346 |
| 83.00 | 3545 | 165.00 | 4507 | 249.00 | 2169 | 351.00 | 182 |
| 84.00 | 178 | 166.00 | 3807 | 250.00 | 370 | 352.00 | 3059 |
| 85.00 | 2559 | 167.00 | 24880 | 251.00 | 462 | 353.00 | 1950 |
| 86.00 | 4226 | 168.00 | 11639 | 252.00 | 590 | 354.00 | 3010 |
| 87.00 | 1998 | 169.00 | 2046 | 253.00 | 1331 | 355.00 | 569 |
| 88.00 | 783 | 170.00 | 776 | 255.00 | 296384 | 359.00 | 242 |
| 89.00 | 418 | 171.00 | 1036 | 256.00 | 43272 | 365.00 | 13085 |
| 91.00 | 3237 | 172.00 | 2248 | 257.00 | 3394 | 366.00 | 1813 |
| 92.00 | 3764 | 173.00 | 2906 | 258.00 | 18176 | 367.00 | 150 |

| | | | | | | | |
|--------|--------|--------|--------|--------|--------|--------|--------|
| 93.00 | 24104 | 174.00 | 5113 | 259.00 | 2926 | 370.00 | 291 |
| 94.00 | 1672 | 175.00 | 9851 | 260.00 | 520 | 371.00 | 690 |
| 95.00 | 503 | 176.00 | 2588 | 261.00 | 479 | 372.00 | 4605 |
| 96.00 | 1130 | 177.00 | 4756 | 262.00 | 60 | 373.00 | 1002 |
| 97.00 | 380 | 178.00 | 1657 | 263.00 | 151 | 374.00 | 50 |
| 98.00 | 17936 | 179.00 | 18424 | 264.00 | 377 | 377.00 | 67 |
| 99.00 | 14658 | 180.00 | 12975 | 265.00 | 6992 | 383.00 | 1157 |
| 100.00 | 1303 | 181.00 | 6000 | 266.00 | 984 | 384.00 | 328 |
| 101.00 | 8724 | 182.00 | 963 | 267.00 | 105 | 385.00 | 50 |
| 102.00 | 480 | 183.00 | 493 | 268.00 | 248 | 390.00 | 595 |
| 103.00 | 2859 | 184.00 | 1456 | 270.00 | 285 | 391.00 | 401 |
| 104.00 | 5461 | 185.00 | 9317 | 271.00 | 631 | 392.00 | 204 |
| 105.00 | 5056 | 186.00 | 70384 | 272.00 | 750 | 401.00 | 211 |
| 106.00 | 1781 | 187.00 | 20112 | 273.00 | 8749 | 402.00 | 1564 |
| 107.00 | 67936 | 188.00 | 2185 | 274.00 | 23296 | 403.00 | 2292 |
| 108.00 | 10471 | 189.00 | 4453 | 275.00 | 129008 | 404.00 | 796 |
| 109.00 | 595 | 190.00 | 772 | 276.00 | 17320 | 405.00 | 237 |
| 110.00 | 122760 | 191.00 | 2090 | 277.00 | 11470 | 421.00 | 1827 |
| 111.00 | 18400 | 192.00 | 5915 | 278.00 | 2005 | 422.00 | 1658 |
| 112.00 | 2357 | 193.00 | 6863 | 279.00 | 468 | 423.00 | 12304 |
| 113.00 | 756 | 194.00 | 1470 | 281.00 | 147 | 424.00 | 2795 |
| 114.00 | 128 | 195.00 | 841 | 282.00 | 368 | 425.00 | 263 |
| 115.00 | 298 | 196.00 | 14341 | 283.00 | 1453 | 441.00 | 31664 |
| 116.00 | 3871 | 198.00 | 518272 | 284.00 | 874 | 442.00 | 221824 |
| 117.00 | 54088 | 199.00 | 35680 | 285.00 | 2012 | 443.00 | 41072 |
| 118.00 | 3919 | 200.00 | 2830 | 286.00 | 333 | 444.00 | 3778 |
| 119.00 | 531 | 201.00 | 2302 | 288.00 | 146 | 445.00 | 177 |
| 120.00 | 920 | 203.00 | 3657 | 289.00 | 446 | | |
| 121.00 | 362 | 204.00 | 18200 | 290.00 | 444 | | |
| 122.00 | 4396 | 205.00 | 31664 | 291.00 | 199 | | |
| 123.00 | 6778 | 206.00 | 132736 | 292.00 | 486 | | |

Data File: \\target\share\chem3\nt10.1\20230315.1\20230315.1\NT10031503S.D
Date: 15-MAR-2023 21:12
Client ID:
Sample Info: SLC0238-CAL8
Volume Injected (uL): 1.0
Column phase: ZB-5msi

Instrument: nt10.1
Operator: JGR
Column diameter: 0.25

\\target\share\chem3\nt10.1\20230315.1\20230315.1\NT10031503S.D



ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031503S.D
 Lab Smp Id: SLC0238-CAL8
 Inj Date : 15-MAR-2023 21:12 MS Autotune Date: 16-JAN-2023 17:42
 Operator : JGR Inst ID: nt10.i
 Smp Info : SLC0238-CAL8
 Misc Info :
 Comment :
 Method : \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
 Meth Date : 16-Mar-2023 14:39 van Quant Type: ISTD
 Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D
 Als bottle: 3 Calibration Sample, Level: 8
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: PSDDA.sub
 Target Version: 4.14
 Processing Host: VANS-201906

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

| Name | Value | Description |
|---------------|----------|---------------------------------|
| DF | 1.000 | Dilution Factor |
| Vo | 1000.000 | Volume of sample extracted (mL) |
| Vt | 1000.000 | Volume of final extract (uL) |
| Vi | 1.000 | Volume injected (uL) |
| Uf | 1.000 | ng unit correction factor |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT | SIG | RT | EXP RT | REL RT | RESPONSE | AMOUNTS | |
|-------------------------------|-------|-----|--------|----------------|--------|----------|--------------------|-------------------|
| | | | | | | | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| \$ 1 2-Fluorophenol | 112 | | 7.072 | 7.073 (0.760) | | 838030 | 15.0000 | 14.36 |
| 3 Phenol | 94 | | 8.664 | 8.664 (0.931) | | 729755 | 10.0000 | 9.116 |
| 7 1,3-Dichlorobenzene | 146 | | 9.236 | 9.236 (0.992) | | 665810 | 10.0000 | 8.888 |
| * 8 1,4-Dichlorobenzene-d4 | 152 | | 9.306 | 9.298 (1.000) | | 192425 | 4.00000 | |
| 9 1,4-Dichlorobenzene | 146 | | 9.329 | 9.329 (1.002) | | 654897 | 10.0000 | 9.056 |
| 11 Benzyl alcohol | 79 | | 9.562 | 9.570 (1.028) | | 491495 | 10.0000 | 10.59 |
| 12 1,2-Dichlorobenzene | 146 | | 9.686 | 9.686 (1.041) | | 638455 | 10.0000 | 8.978 |
| 13 2-Methylphenol | 108 | | 9.779 | 9.772 (1.051) | | 553708 | 10.0000 | 9.982 |
| 15 4-Methylphenol | 108 | | 10.043 | 10.036 (1.079) | | 586952 | 10.0000 | 10.18 |
| 16 N-Nitroso-di-n-propylamine | 70 | | 10.121 | 10.113 (1.088) | | 409406 | 10.0000 | 10.04 |
| 22 2,4-Dimethylphenol | 107 | | 11.085 | 11.087 (0.941) | | 1130269 | 20.0000 | 18.95 |
| 24 Benzoic acid | 105 | | 11.332 | 11.189 (0.962) | | 1607035 | 40.0000 | 39.86 |
| 26 1,2,4-Trichlorobenzene | 180 | | 11.689 | 11.690 (0.992) | | 544255 | 10.0000 | 9.073 |
| * 27 Naphthalene-d8 | 136 | | 11.781 | 11.775 (1.000) | | 689875 | 4.00000 | |
| 30 Hexachlorobutadiene | 225 | | 12.175 | 12.169 (1.033) | | 341241 | 10.0000 | 9.357 |
| 39 Dimethylphthalate | 163 | | 14.884 | 14.877 (0.967) | | 1011946 | 10.0000 | 9.386 |
| * 42 Acenaphthene-d10 | 162 | | 15.387 | 15.380 (1.000) | | 341663 | 4.00000 | |
| 50 Diethylphthalate | 149 | | 16.338 | 16.324 (1.062) | | 1156658 | 10.0000 | 10.36 |
| 54 N-Nitrosodiphenylamine | 169 | | 16.724 | 16.717 (0.908) | | 841708 | 10.0000 | 9.623 |
| 57 Hexachlorobenzene | 284 | | 17.797 | 17.798 (0.966) | | 358890 | 10.0000 | 9.166 |

| Compounds | QUANT SIG | | | | | | AMOUNTS | |
|---------------------------|-----------|--|--------|--------|---------|----------|--------------------|-------------------|
| | MASS | | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| ===== | ===== | | ===== | ===== | ===== | ===== | ===== | ===== |
| 58 Pentachlorophenol | 266 | | 18.153 | 18.154 | (0.985) | 496304 | 20.0000 | 19.97 |
| * 59 Phenanthrene-d10 | 188 | | 18.424 | 18.417 | (1.000) | 651934 | 4.00000 | |
| \$ 66 Terphenyl-d14 | 244 | | 21.542 | 21.543 | (0.918) | 813450 | 10.0000 | 10.36 |
| 67 Butylbenzylphthalate | 149 | | 22.463 | 22.465 | (0.958) | 722761 | 10.0000 | 9.997 |
| * 69 Chrysene-d12 | 240 | | 23.454 | 23.455 | (1.000) | 482051 | 4.00000 | |
| * 77 Perylene-d12 | 264 | | 26.187 | 26.188 | (1.000) | 502718 | 4.00000 | |
| 79 Dibenzo(a,h)anthracene | 278 | | 29.033 | 29.019 | (1.109) | 1559411 | 10.0000 | 9.987 |
| 90 N-Nitrosodimethylamine | 74 | | 4.940 | 4.948 | (0.531) | 652075 | 20.0000 | 17.62 |

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i
 Lab File ID: NT10031503S.D
 Lab Smp Id: SLC0238-CAL8
 Analysis Type: SV
 Quant Type: ISTD
 Operator: JGR
 Method File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
 Misc Info:

Calibration Date: 15-MAR-2023
 Calibration Time: 23:06
 Level: LOW
 Sample Type: AIR

Test Mode:
 Use Last Continuing Calibrator.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|------------|---------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 188081 | 94041 | 376162 | 192425 | 2.31 |
| 27 Naphthalene-d8 | 674549 | 337275 | 1349098 | 689875 | 2.27 |
| 42 Acenaphthene-d10 | 328275 | 164138 | 656550 | 341663 | 4.08 |
| 59 Phenanthrene-d10 | 597140 | 298570 | 1194280 | 651934 | 9.18 |
| 69 Chrysene-d12 | 466503 | 233252 | 933006 | 482051 | 3.33 |
| 77 Perylene-d12 | 518203 | 259102 | 1036406 | 502718 | -2.99 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 9.30 | 8.80 | 9.80 | 9.31 | 0.08 |
| 27 Naphthalene-d8 | 11.77 | 11.27 | 12.27 | 11.78 | 0.06 |
| 42 Acenaphthene-d10 | 15.39 | 14.89 | 15.89 | 15.39 | -0.00 |
| 59 Phenanthrene-d10 | 18.42 | 17.92 | 18.92 | 18.42 | -0.00 |
| 69 Chrysene-d12 | 23.45 | 22.95 | 23.95 | 23.45 | -0.00 |
| 77 Perylene-d12 | 26.19 | 25.69 | 26.69 | 26.19 | -0.00 |

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

REVIEW SUMMARY FOR FILE - NT10031503S.D

Lab ID: SLC0238-CAL8

nt10.i, 20230315.b\20230315.b\SIMABN2.m,

15-MAR-2023 21:12

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT | CCV | RRT | DELTA | COMPOUND |
|-------|-------|--------|-------|--------------|
| 0.962 | 0.000 | 0.9618 | | Benzoic acid |

RRT check based on Ccal File: 20230315.b/NT10031510S.D

On Column LOD for nt10.i, 20230315.b\SIMABN2.m, PSDDA.sub = 0.0000

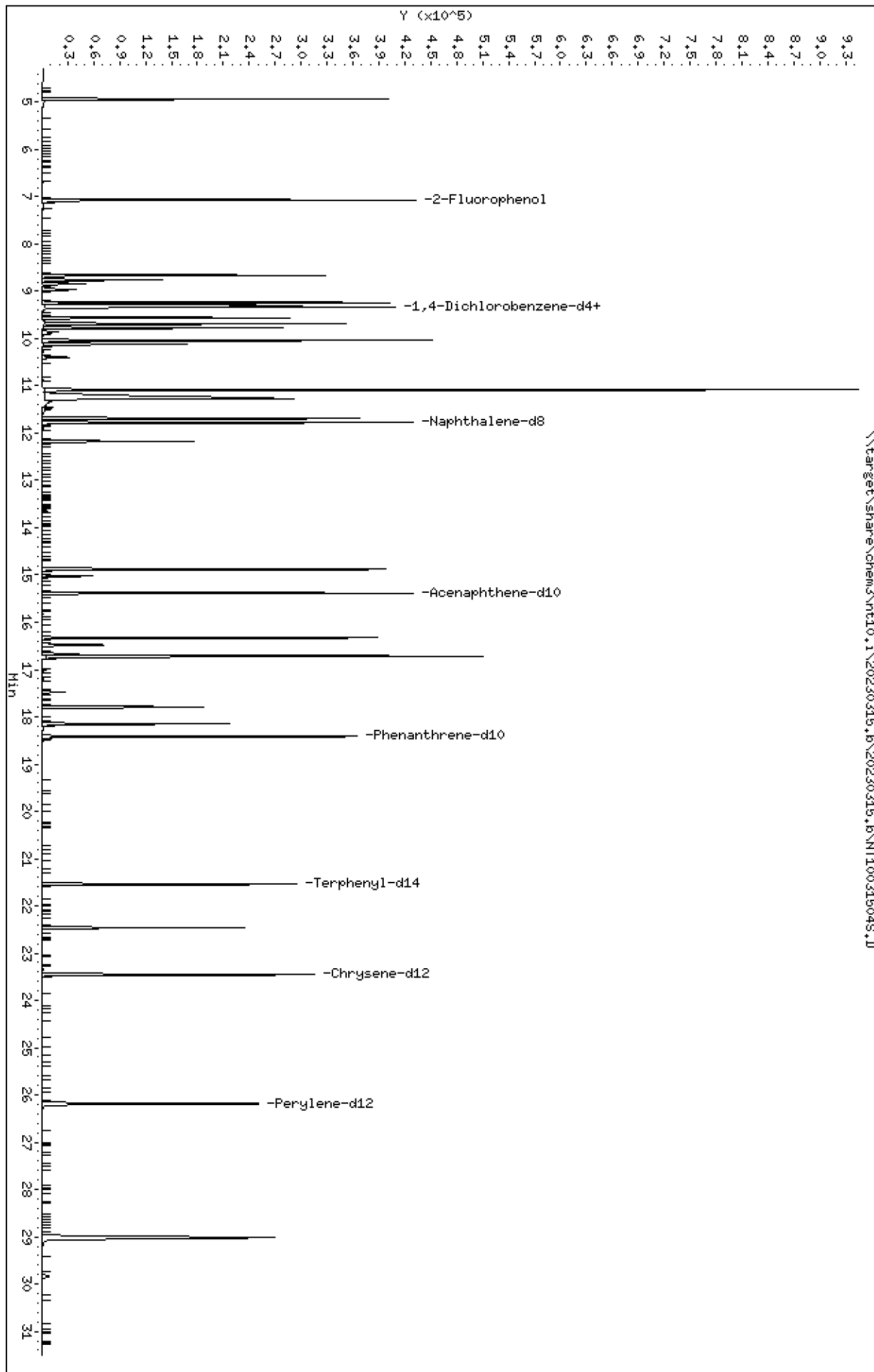
Exception: 1,2,4-Trichlorobenzene 0.0010

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

Data File: \\target\share\chem3\nt10.1\20230315.1\20230315.1\NT10031504S.D
 Date: 15-MAR-2023 21:50
 Client ID:
 Sample Info: SLC0238-CAL7
 Volume Injected (uL): 1.0
 Column phase: ZB-5msi

Instrument: nt10.1
 Operator: JGR
 Column diameter: 0.25

\\target\share\chem3\nt10.1\20230315.1\20230315.1\NT10031504S.D



ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031504S.D
 Lab Smp Id: SLC0238-CAL7
 Inj Date : 15-MAR-2023 21:50 MS Autotune Date: 16-JAN-2023 17:42
 Operator : JGR Inst ID: nt10.i
 Smp Info : SLC0238-CAL7
 Misc Info :
 Comment :
 Method : \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
 Meth Date : 16-Mar-2023 14:39 van Quant Type: ISTD
 Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D
 Als bottle: 4 Calibration Sample, Level: 7
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: PSDDA.sub
 Target Version: 4.14
 Processing Host: VANS-201906

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

| Name | Value | Description |
|---------------|----------|---------------------------------|
| DF | 1.000 | Dilution Factor |
| Vo | 1000.000 | Volume of sample extracted (mL) |
| Vt | 1000.000 | Volume of final extract (uL) |
| Vi | 1.000 | Volume injected (uL) |
| Uf | 1.000 | ng unit correction factor |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT | SIG | RT | EXP RT | REL RT | RESPONSE | AMOUNTS | |
|-------------------------------|-------|-----|--------|--------|---------|----------|-----------------|----------------|
| | | | | | | | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| \$ 1 2-Fluorophenol | 112 | | 7.073 | 7.073 | (0.761) | 423280 | 7.50000 | 7.448 |
| 3 Phenol | 94 | | 8.664 | 8.664 | (0.932) | 380220 | 5.00000 | 4.876 |
| 7 1,3-Dichlorobenzene | 146 | | 9.236 | 9.236 | (0.993) | 338879 | 5.00000 | 4.645 |
| * 8 1,4-Dichlorobenzene-d4 | 152 | | 9.298 | 9.298 | (1.000) | 187419 | 4.00000 | |
| 9 1,4-Dichlorobenzene | 146 | | 9.329 | 9.329 | (1.003) | 329824 | 5.00000 | 4.683 |
| 11 Benzyl alcohol | 79 | | 9.562 | 9.570 | (1.028) | 252707 | 5.00000 | 5.590 |
| 12 1,2-Dichlorobenzene | 146 | | 9.686 | 9.686 | (1.042) | 322928 | 5.00000 | 4.662 |
| 13 2-Methylphenol | 108 | | 9.772 | 9.772 | (1.051) | 278276 | 5.00000 | 5.151 |
| 15 4-Methylphenol | 108 | | 10.036 | 10.036 | (1.079) | 298436 | 5.00000 | 5.316 |
| 16 N-Nitroso-di-n-propylamine | 70 | | 10.113 | 10.113 | (1.088) | 209335 | 5.00000 | 5.272 |
| 22 2,4-Dimethylphenol | 107 | | 11.086 | 11.087 | (0.942) | 583450 | 10.0000 | 9.891 |
| 24 Benzoic acid | 105 | | 11.272 | 11.189 | (0.957) | 736328 | 20.0000 | 20.81 |
| 26 1,2,4-Trichlorobenzene | 180 | | 11.689 | 11.690 | (0.993) | 274164 | 5.00000 | 4.620 |
| * 27 Naphthalene-d8 | 136 | | 11.774 | 11.775 | (1.000) | 682446 | 4.00000 | |
| 30 Hexachlorobutadiene | 225 | | 12.168 | 12.169 | (1.033) | 169468 | 5.00000 | 4.697 |
| 39 Dimethylphthalate | 163 | | 14.877 | 14.877 | (0.967) | 507054 | 5.00000 | 4.846 |
| * 42 Acenaphthene-d10 | 162 | | 15.380 | 15.380 | (1.000) | 331603 | 4.00000 | |
| 50 Diethylphthalate | 149 | | 16.331 | 16.324 | (1.062) | 561334 | 5.00000 | 5.178 |
| 54 N-Nitrosodiphenylamine | 169 | | 16.716 | 16.717 | (0.908) | 409745 | 5.00000 | 5.102 |
| 57 Hexachlorobenzene | 284 | | 17.797 | 17.798 | (0.966) | 174645 | 5.00000 | 4.857 |

| Compounds | QUANT SIG | | AMOUNTS | | | | | |
|---------------------------|-----------|--|---------|--------|---------|----------|--------------------|-------------------|
| | MASS | | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| 58 Pentachlorophenol | 266 | | 18.145 | 18.154 | (0.985) | 215193 | 10.0000 | 10.18 |
| * 59 Phenanthrene-d10 | 188 | | 18.416 | 18.417 | (1.000) | 598629 | 4.00000 | |
| \$ 66 Terphenyl-d14 | 244 | | 21.542 | 21.543 | (0.918) | 332738 | 5.00000 | 5.245 |
| 67 Butylbenzylphthalate | 149 | | 22.456 | 22.465 | (0.957) | 271734 | 5.00000 | 5.005 |
| * 69 Chrysene-d12 | 240 | | 23.454 | 23.455 | (1.000) | 389338 | 4.00000 | |
| * 77 Perylene-d12 | 264 | | 26.187 | 26.188 | (1.000) | 466441 | 4.00000 | |
| 79 Dibenzo(a,h)anthracene | 278 | | 29.017 | 29.019 | (1.108) | 751404 | 5.00000 | 5.052 |
| 90 N-Nitrosodimethylamine | 74 | | 4.933 | 4.948 | (0.531) | 345951 | 10.0000 | 9.597 |

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i
 Lab File ID: NT10031504S.D
 Lab Smp Id: SLC0238-CAL7
 Analysis Type: SV
 Quant Type: ISTD
 Operator: JGR
 Method File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
 Misc Info:

Calibration Date: 15-MAR-2023
 Calibration Time: 23:06
 Level: LOW
 Sample Type: AIR

Test Mode:
 Use Last Continuing Calibrator.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|------------|---------|--------|--------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 188081 | 94041 | 376162 | 187419 | -0.35 |
| 27 Naphthalene-d8 | 674549 | 337275 | 1349098 | 682446 | 1.17 |
| 42 Acenaphthene-d10 | 328275 | 164138 | 656550 | 331603 | 1.01 |
| 59 Phenanthrene-d10 | 597140 | 298570 | 1194280 | 598629 | 0.25 |
| 69 Chrysene-d12 | 466503 | 233252 | 933006 | 389338 | -16.54 |
| 77 Perylene-d12 | 518203 | 259102 | 1036406 | 466441 | -9.99 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 9.30 | 8.80 | 9.80 | 9.30 | 0.00 |
| 27 Naphthalene-d8 | 11.77 | 11.27 | 12.27 | 11.77 | 0.00 |
| 42 Acenaphthene-d10 | 15.39 | 14.89 | 15.89 | 15.38 | -0.05 |
| 59 Phenanthrene-d10 | 18.42 | 17.92 | 18.92 | 18.42 | -0.04 |
| 69 Chrysene-d12 | 23.45 | 22.95 | 23.95 | 23.45 | 0.00 |
| 77 Perylene-d12 | 26.19 | 25.69 | 26.69 | 26.19 | 0.00 |

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

REVIEW SUMMARY FOR FILE - NT10031504S.D

Lab ID: SLC0238-CAL7

nt10.i, 20230315.b\20230315.b\SIMABN2.m,

15-MAR-2023 21:50

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT | CCV | RRT | DELTA | COMPOUND |
|-------|-------|--------|-------|--------------|
| 0.957 | 0.000 | 0.9574 | | Benzoic acid |

RRT check based on Ccal File: 20230315.b/NT10031510S.D

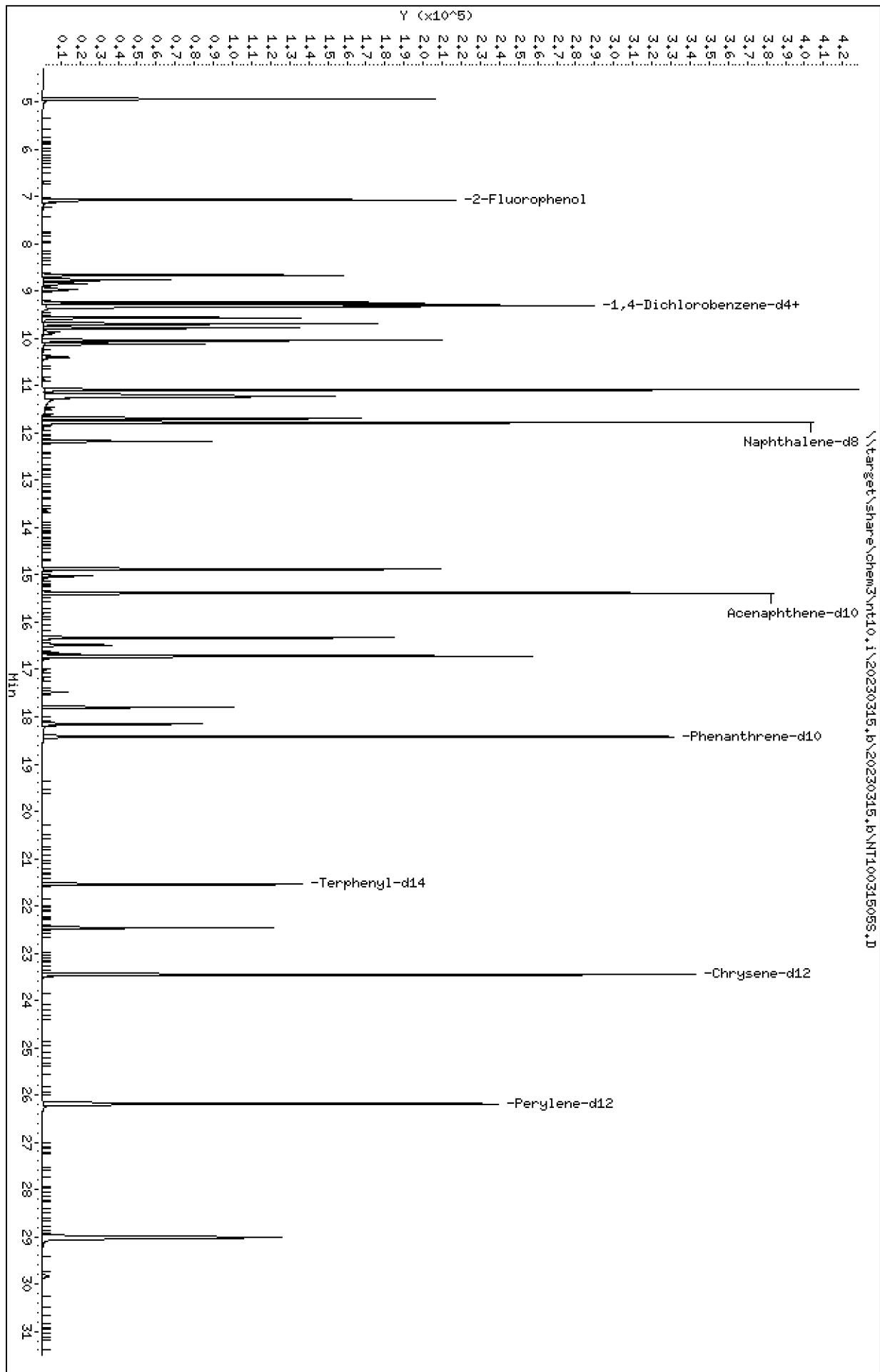
On Column LOD for nt10.i, 20230315.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

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

Data File: \\target\share\chem3\nt10.1\20230315.1\20230315.1\NT100315055.D
 Date: 15-MAR-2023 22:28
 Client ID:
 Sample Info: SLC0238-CAL6
 Volume Injected (uL): 1.0
 Column phase: ZB-5msi

Instrument: nt10.1
 Operator: JGR
 Column diameter: 0.25



ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031505S.D
 Lab Smp Id: SLC0238-CAL6
 Inj Date : 15-MAR-2023 22:28 MS Autotune Date: 16-JAN-2023 17:42
 Operator : JGR Inst ID: nt10.i
 Smp Info : SLC0238-CAL6
 Misc Info :
 Comment :
 Method : \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
 Meth Date : 16-Mar-2023 14:39 van Quant Type: ISTD
 Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D
 Als bottle: 5 Calibration Sample, Level: 6
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: PSDDA.sub
 Target Version: 4.14
 Processing Host: VANS-201906

Concentration Formula: $Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable$

| Name | Value | Description |
|---------------|----------|---------------------------------|
| DF | 1.000 | Dilution Factor |
| Vo | 1000.000 | Volume of sample extracted (mL) |
| Vt | 1000.000 | Volume of final extract (uL) |
| Vi | 1.000 | Volume injected (uL) |
| Uf | 1.000 | ng unit correction factor |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT | SIG | RT | EXP RT | REL RT | RESPONSE | AMOUNTS | |
|-------------------------------|-------|-----|--------|--------|---------|----------|-----------------|----------------|
| | | | | | | | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| \$ 1 2-Fluorophenol | 112 | | 7.065 | 7.073 | (0.760) | 210389 | 3.75000 | 4.001 |
| 3 Phenol | 94 | | 8.657 | 8.664 | (0.931) | 190392 | 2.50000 | 2.639 |
| 7 1,3-Dichlorobenzene | 146 | | 9.236 | 9.236 | (0.993) | 168055 | 2.50000 | 2.489 |
| * 8 1,4-Dichlorobenzene-d4 | 152 | | 9.299 | 9.298 | (1.000) | 173412 | 4.00000 | |
| 9 1,4-Dichlorobenzene | 146 | | 9.330 | 9.329 | (1.003) | 163092 | 2.50000 | 2.503 |
| 11 Benzyl alcohol | 79 | | 9.562 | 9.570 | (1.028) | 120208 | 2.50000 | 2.874 |
| 12 1,2-Dichlorobenzene | 146 | | 9.687 | 9.686 | (1.042) | 159585 | 2.50000 | 2.490 |
| 13 2-Methylphenol | 108 | | 9.772 | 9.772 | (1.051) | 134327 | 2.50000 | 2.687 |
| 15 4-Methylphenol | 108 | | 10.036 | 10.036 | (1.079) | 141444 | 2.50000 | 2.723 |
| 16 N-Nitroso-di-n-propylamine | 70 | | 10.114 | 10.113 | (1.088) | 100651 | 2.50000 | 2.740 |
| 22 2,4-Dimethylphenol | 107 | | 11.078 | 11.087 | (0.941) | 286604 | 5.00000 | 5.311 |
| 24 Benzoic acid | 105 | | 11.222 | 11.189 | (0.953) | 285274 | 10.0000 | 9.309 |
| 26 1,2,4-Trichlorobenzene | 180 | | 11.690 | 11.690 | (0.993) | 133425 | 2.50000 | 2.458 |
| * 27 Naphthalene-d8 | 136 | | 11.775 | 11.775 | (1.000) | 624286 | 4.00000 | |
| 30 Hexachlorobutadiene | 225 | | 12.169 | 12.169 | (1.033) | 82773 | 2.50000 | 2.508 |
| 39 Dimethylphthalate | 163 | | 14.878 | 14.877 | (0.967) | 248536 | 2.50000 | 2.538 |
| * 42 Acenaphthene-d10 | 162 | | 15.381 | 15.380 | (1.000) | 310309 | 4.00000 | |
| 50 Diethylphthalate | 149 | | 16.332 | 16.324 | (1.062) | 274020 | 2.50000 | 2.701 |
| 54 N-Nitrosodiphenylamine | 169 | | 16.717 | 16.717 | (0.907) | 198446 | 2.50000 | 2.666 |
| 57 Hexachlorobenzene | 284 | | 17.798 | 17.798 | (0.966) | 83753 | 2.50000 | 2.513 |

| Compounds | QUANT SIG | | AMOUNTS | | | | | |
|---------------------------|-----------|--|---------|--------|---------|----------|--------------------|-------------------|
| | MASS | | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| ===== | ===== | | ===== | ===== | ===== | ===== | ===== | ===== |
| 58 Pentachlorophenol | 266 | | 18.154 | 18.154 | (0.985) | 93572 | 5.00000 | 4.940 |
| * 59 Phenanthrene-d10 | 188 | | 18.425 | 18.417 | (1.000) | 554860 | 4.00000 | |
| \$ 66 Terphenyl-d14 | 244 | | 21.543 | 21.543 | (0.918) | 167011 | 2.50000 | 2.661 |
| 67 Butylbenzylphthalate | 149 | | 22.464 | 22.465 | (0.958) | 133147 | 2.50000 | 2.556 |
| * 69 Chrysene-d12 | 240 | | 23.455 | 23.455 | (1.000) | 385144 | 4.00000 | |
| * 77 Perylene-d12 | 264 | | 26.188 | 26.188 | (1.000) | 456369 | 4.00000 | |
| 79 Dibenzo(a,h)anthracene | 278 | | 29.018 | 29.019 | (1.108) | 368157 | 2.50000 | 2.493 |
| 90 N-Nitrosodimethylamine | 74 | | 4.925 | 4.948 | (0.530) | 174819 | 5.00000 | 5.242 |

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i
 Lab File ID: NT10031505S.D
 Lab Smp Id: SLC0238-CAL6
 Analysis Type: SV
 Quant Type: ISTD
 Operator: JGR
 Method File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
 Misc Info:

Calibration Date: 15-MAR-2023
 Calibration Time: 23:06
 Level: LOW
 Sample Type: AIR

Test Mode:
 Use Last Continuing Calibrator.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|------------|---------|--------|--------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 188081 | 94041 | 376162 | 173412 | -7.80 |
| 27 Naphthalene-d8 | 674549 | 337275 | 1349098 | 624286 | -7.45 |
| 42 Acenaphthene-d10 | 328275 | 164138 | 656550 | 310309 | -5.47 |
| 59 Phenanthrene-d10 | 597140 | 298570 | 1194280 | 554860 | -7.08 |
| 69 Chrysene-d12 | 466503 | 233252 | 933006 | 385144 | -17.44 |
| 77 Perylene-d12 | 518203 | 259102 | 1036406 | 456369 | -11.93 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 9.30 | 8.80 | 9.80 | 9.30 | 0.00 |
| 27 Naphthalene-d8 | 11.77 | 11.27 | 12.27 | 11.78 | 0.01 |
| 42 Acenaphthene-d10 | 15.39 | 14.89 | 15.89 | 15.38 | -0.04 |
| 59 Phenanthrene-d10 | 18.42 | 17.92 | 18.92 | 18.43 | 0.01 |
| 69 Chrysene-d12 | 23.45 | 22.95 | 23.95 | 23.46 | 0.00 |
| 77 Perylene-d12 | 26.19 | 25.69 | 26.69 | 26.19 | 0.00 |

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

REVIEW SUMMARY FOR FILE - NT10031505S.D

Lab ID: SLC0238-CAL6

nt10.i, 20230315.b\20230315.b\SIMABN2.m,

15-MAR-2023 22:28

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT | CCV | RRT | DELTA | COMPOUND |
|-------|-------|--------|-------|--------------|
| 0.953 | 0.000 | 0.9531 | | Benzoic acid |

RRT check based on Ccal File: 20230315.b/NT10031510S.D

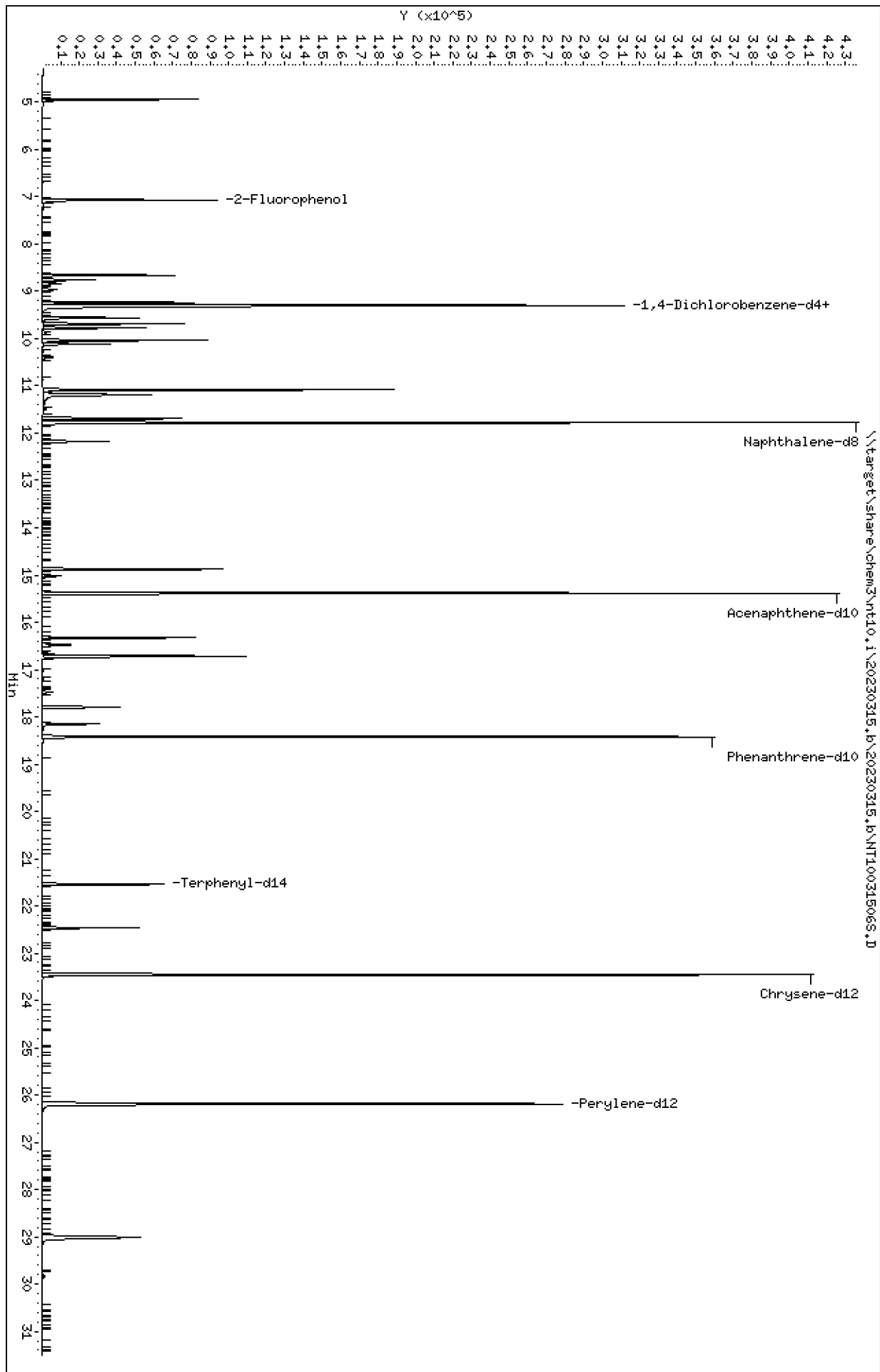
On Column LOD for nt10.i, 20230315.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

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

Data File: \\target\share\chem3\nt10.1\20230315.1\20230315.1\NT10031506S.D
Date: 15-MAR-2023 23:06
Client ID:
Sample Info: SLC0238-CAL5
Volume Injected (uL): 1.0
Column phase: ZB-5msi

Instrument: nt10.1
Operator: JGR
Column diameter: 0.25



ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031506S.D
 Lab Smp Id: SLC0238-CAL5
 Inj Date : 15-MAR-2023 23:06 MS Autotune Date: 16-JAN-2023 17:42
 Operator : JGR Inst ID: nt10.i
 Smp Info : SLC0238-CAL5
 Misc Info :
 Comment :
 Method : \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
 Meth Date : 16-Mar-2023 14:39 van Quant Type: ISTD
 Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D
 Als bottle: 6 Calibration Sample, Level: 5
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: PSDDA.sub
 Target Version: 4.14
 Processing Host: VANS-201906

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vo} * \text{Vi}) * \text{CpndVariable}$

| Name | Value | Description |
|---------------|----------|---------------------------------|
| DF | 1.000 | Dilution Factor |
| Vo | 1000.000 | Volume of sample extracted (mL) |
| Vt | 1000.000 | Volume of final extract (uL) |
| Vi | 1.000 | Volume injected (uL) |
| Uf | 1.000 | ng unit correction factor |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT | SIG | RT | EXP RT | REL RT | RESPONSE | AMOUNTS | |
|-------------------------------|-------|-----|--------|----------------|--------|----------|--------------------|-------------------|
| | | | | | | | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| \$ 1 2-Fluorophenol | 112 | | 7.072 | 7.073 (0.761) | | 90798 | 1.50000 | 1.592 |
| 3 Phenol | 94 | | 8.656 | 8.664 (0.931) | | 82355 | 1.00000 | 1.052 |
| 7 1,3-Dichlorobenzene | 146 | | 9.236 | 9.236 (0.993) | | 73541 | 1.00000 | 1.004 |
| * 8 1,4-Dichlorobenzene-d4 | 152 | | 9.298 | 9.298 (1.000) | | 188081 | 4.00000 | |
| 9 1,4-Dichlorobenzene | 146 | | 9.329 | 9.329 (1.003) | | 71256 | 1.00000 | 1.008 |
| 11 Benzyl alcohol | 79 | | 9.562 | 9.570 (1.028) | | 48450 | 1.00000 | 1.068 |
| 12 1,2-Dichlorobenzene | 146 | | 9.686 | 9.686 (1.042) | | 70084 | 1.00000 | 1.008 |
| 13 2-Methylphenol | 108 | | 9.772 | 9.772 (1.051) | | 56161 | 1.00000 | 1.036 |
| 15 4-Methylphenol | 108 | | 10.036 | 10.036 (1.079) | | 59710 | 1.00000 | 1.060 |
| 16 N-Nitroso-di-n-propylamine | 70 | | 10.113 | 10.113 (1.088) | | 42270 | 1.00000 | 1.061 |
| 22 2,4-Dimethylphenol | 107 | | 11.077 | 11.087 (0.941) | | 125195 | 2.00000 | 2.147 |
| 24 Benzoic acid | 105 | | 11.187 | 11.189 (0.950) | | 77741 | 4.00000 | 2.416 |
| 26 1,2,4-Trichlorobenzene | 180 | | 11.689 | 11.690 (0.993) | | 58641 | 1.00000 | 0.9998 |
| * 27 Naphthalene-d8 | 136 | | 11.774 | 11.775 (1.000) | | 674549 | 4.00000 | |
| 30 Hexachlorobutadiene | 225 | | 12.176 | 12.169 (1.034) | | 35610 | 1.00000 | 0.9986 |
| 39 Dimethylphthalate | 163 | | 14.877 | 14.877 (0.967) | | 108743 | 1.00000 | 1.050 |
| * 42 Acenaphthene-d10 | 162 | | 15.387 | 15.380 (1.000) | | 328275 | 4.00000 | |
| 50 Diethylphthalate | 149 | | 16.330 | 16.324 (1.061) | | 117125 | 1.00000 | 1.091 |
| 54 N-Nitrosodiphenylamine | 169 | | 16.724 | 16.717 (0.908) | | 87266 | 1.00000 | 1.089 |
| 57 Hexachlorobenzene | 284 | | 17.797 | 17.798 (0.966) | | 36131 | 1.00000 | 1.007 |

| Compounds | QUANT SIG | | | | | | AMOUNTS | |
|---------------------------|-----------|--|--------|--------|---------|----------|--------------------|-------------------|
| | MASS | | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| ===== | ===== | | ===== | ===== | ===== | ===== | ===== | ===== |
| 58 Pentachlorophenol | 266 | | 18.153 | 18.154 | (0.985) | 33609 | 2.00000 | 1.681 |
| * 59 Phenanthrene-d10 | 188 | | 18.424 | 18.417 | (1.000) | 597140 | 4.00000 | |
| \$ 66 Terphenyl-d14 | 244 | | 21.542 | 21.543 | (0.918) | 75884 | 1.00000 | 0.9983 |
| 67 Butylbenzylphthalate | 149 | | 22.463 | 22.465 | (0.958) | 56297 | 1.00000 | 0.9093 |
| * 69 Chrysene-d12 | 240 | | 23.454 | 23.455 | (1.000) | 466503 | 4.00000 | |
| * 77 Perylene-d12 | 264 | | 26.187 | 26.188 | (1.000) | 518203 | 4.00000 | |
| 79 Dibenzo(a,h)anthracene | 278 | | 29.009 | 29.019 | (1.108) | 155363 | 1.00000 | 0.9181 |
| 90 N-Nitrosodimethylamine | 74 | | 4.940 | 4.948 | (0.531) | 75637 | 2.00000 | 2.091 |

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i
 Lab File ID: NT10031506S.D
 Lab Smp Id: SLC0238-CAL5
 Analysis Type: SV
 Quant Type: ISTD
 Operator: JGR
 Method File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
 Misc Info:

Calibration Date: 15-MAR-2023
 Calibration Time: 23:06
 Level: LOW
 Sample Type: AIR

Test Mode:
 Use Last Continuing Calibrator.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|------------|---------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 188081 | 94041 | 376162 | 188081 | 0.00 |
| 27 Naphthalene-d8 | 674549 | 337275 | 1349098 | 674549 | 0.00 |
| 42 Acenaphthene-d10 | 328275 | 164138 | 656550 | 328275 | 0.00 |
| 59 Phenanthrene-d10 | 597140 | 298570 | 1194280 | 597140 | 0.00 |
| 69 Chrysene-d12 | 466503 | 233252 | 933006 | 466503 | 0.00 |
| 77 Perylene-d12 | 518203 | 259102 | 1036406 | 518203 | 0.00 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 9.30 | 8.80 | 9.80 | 9.30 | 0.00 |
| 27 Naphthalene-d8 | 11.77 | 11.27 | 12.27 | 11.77 | 0.00 |
| 42 Acenaphthene-d10 | 15.39 | 14.89 | 15.89 | 15.39 | 0.00 |
| 59 Phenanthrene-d10 | 18.42 | 17.92 | 18.92 | 18.42 | 0.00 |
| 69 Chrysene-d12 | 23.45 | 22.95 | 23.95 | 23.45 | 0.00 |
| 77 Perylene-d12 | 26.19 | 25.69 | 26.69 | 26.19 | 0.00 |

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

REVIEW SUMMARY FOR FILE - NT10031506S.D

Lab ID: SLC0238-CAL5

nt10.i, 20230315.b\20230315.b\SIMABN2.m,

15-MAR-2023 23:06

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT | CCV | RRT | DELTA | COMPOUND |
|-------|-------|--------|-------|--------------|
| 0.950 | 0.000 | 0.9502 | | Benzoic acid |

RRT check based on Ccal File: 20230315.b/NT10031510S.D

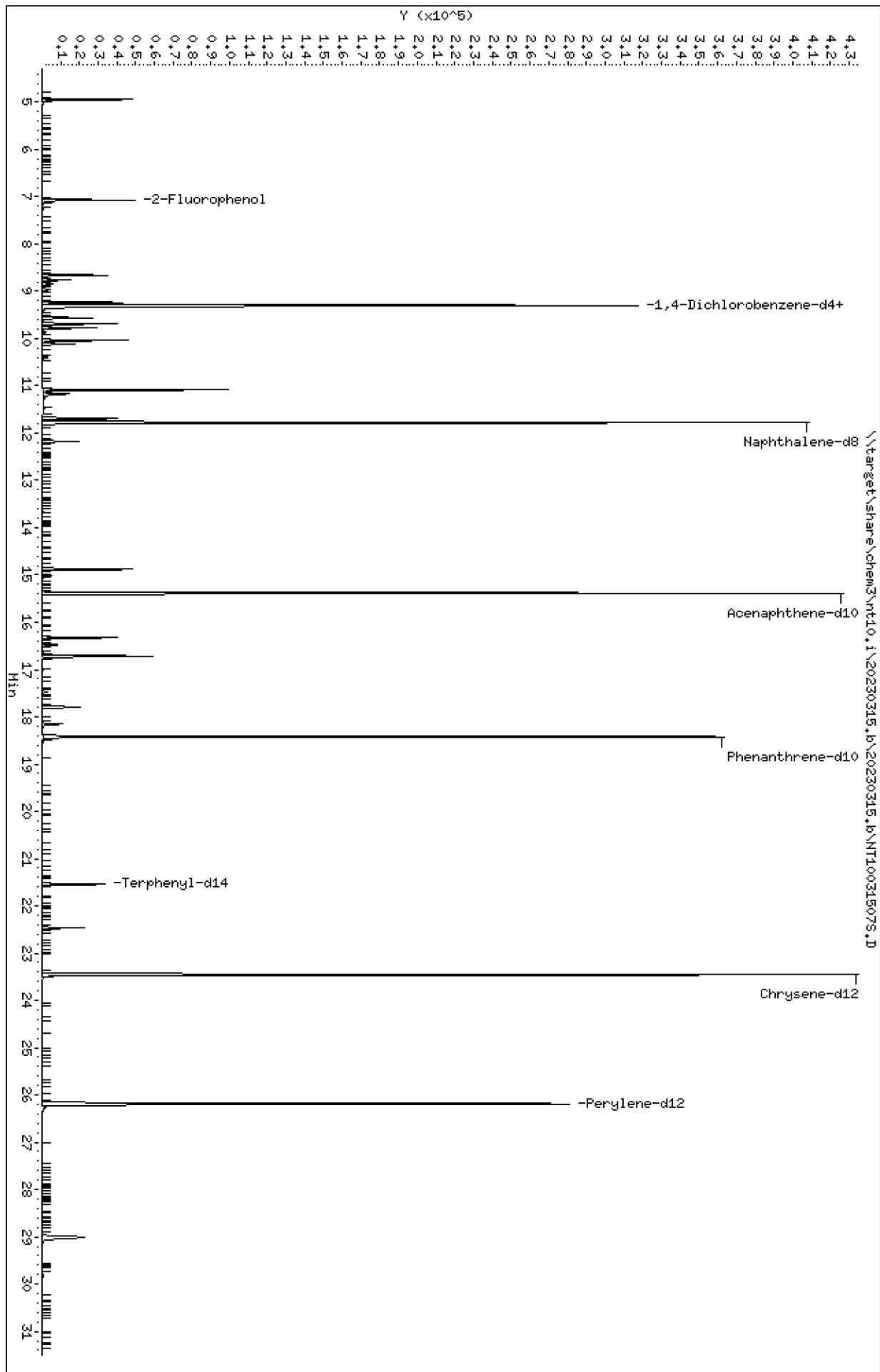
On Column LOD for nt10.i, 20230315.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

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

Data File: \\target\share\chem3\nt10.1\20230315.1\20230315.1\NT10031507S.D
Date: 15-MAR-2023 23:44
Client ID:
Sample Info: SLC0238-CAL4
Volume Injected (uL): 1.0
Column phase: ZB-5msi

Instrument: nt10.1
Operator: JGR
Column diameter: 0.25



ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031507S.D
 Lab Smp Id: SLC0238-CAL4
 Inj Date : 15-MAR-2023 23:44 MS Autotune Date: 16-JAN-2023 17:42
 Operator : JGR Inst ID: nt10.i
 Smp Info : SLC0238-CAL4
 Misc Info :
 Comment :
 Method : \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
 Meth Date : 16-Mar-2023 14:39 van Quant Type: ISTD
 Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D
 Als bottle: 7 Calibration Sample, Level: 4
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: PSDDA.sub
 Target Version: 4.14
 Processing Host: VANS-201906

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

| Name | Value | Description |
|---------------|----------|---------------------------------|
| DF | 1.000 | Dilution Factor |
| Vo | 1000.000 | Volume of sample extracted (mL) |
| Vt | 1000.000 | Volume of final extract (uL) |
| Vi | 1.000 | Volume injected (uL) |
| Uf | 1.000 | ng unit correction factor |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT | SIG | RT | EXP RT | REL RT | RESPONSE | AMOUNTS | |
|-------------------------------|-------|-----|--------|--------|---------|----------|-----------------|----------------|
| | | | | | | | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| \$ 1 2-Fluorophenol | 112 | | 7.073 | 7.073 | (0.761) | 45949 | 0.75000 | 0.7906 |
| 3 Phenol | 94 | | 8.657 | 8.664 | (0.931) | 42286 | 0.50000 | 0.5304 |
| 7 1,3-Dichlorobenzene | 146 | | 9.236 | 9.236 | (0.993) | 38003 | 0.50000 | 0.5094 |
| * 8 1,4-Dichlorobenzene-d4 | 152 | | 9.298 | 9.298 | (1.000) | 191648 | 4.00000 | |
| 9 1,4-Dichlorobenzene | 146 | | 9.329 | 9.329 | (1.003) | 36555 | 0.50000 | 0.5076 |
| 11 Benzyl alcohol | 79 | | 9.562 | 9.570 | (1.028) | 23988 | 0.50000 | 0.5190 |
| 12 1,2-Dichlorobenzene | 146 | | 9.686 | 9.686 | (1.042) | 36410 | 0.50000 | 0.5141 |
| 13 2-Methylphenol | 108 | | 9.772 | 9.772 | (1.051) | 28358 | 0.50000 | 0.5133 |
| 15 4-Methylphenol | 108 | | 10.036 | 10.036 | (1.079) | 29752 | 0.50000 | 0.5183 |
| 16 N-Nitroso-di-n-propylamine | 70 | | 10.113 | 10.113 | (1.088) | 21127 | 0.50000 | 0.5204 |
| 22 2,4-Dimethylphenol | 107 | | 11.086 | 11.087 | (0.942) | 63684 | 1.00000 | 1.084 |
| 24 Benzoic acid | 105 | | 11.171 | 11.189 | (0.949) | 21037 | 2.00000 | 0.6535 |
| 26 1,2,4-Trichlorobenzene | 180 | | 11.689 | 11.690 | (0.993) | 30281 | 0.50000 | 0.5124 |
| * 27 Naphthalene-d8 | 136 | | 11.774 | 11.775 | (1.000) | 679665 | 4.00000 | |
| 30 Hexachlorobutadiene | 225 | | 12.176 | 12.169 | (1.034) | 18287 | 0.50000 | 0.5089 |
| 39 Dimethylphthalate | 163 | | 14.877 | 14.877 | (0.967) | 54277 | 0.50000 | 0.5122 |
| * 42 Acenaphthene-d10 | 162 | | 15.387 | 15.380 | (1.000) | 335786 | 4.00000 | |
| 50 Diethylphthalate | 149 | | 16.331 | 16.324 | (1.061) | 57205 | 0.50000 | 0.5211 |
| 54 N-Nitrosodiphenylamine | 169 | | 16.716 | 16.717 | (0.907) | 43874 | 0.50000 | 0.5326 |
| 57 Hexachlorobenzene | 284 | | 17.797 | 17.798 | (0.966) | 18601 | 0.50000 | 0.5044 |

| Compounds | QUANT SIG | | | | | | AMOUNTS | |
|---------------------------|-----------|--|--------|--------|---------|----------|--------------------|-------------------|
| | MASS | | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| 58 Pentachlorophenol | 266 | | 18.153 | 18.154 | (0.985) | 13495 | 1.00000 | 0.6606 |
| * 59 Phenanthrene-d10 | 188 | | 18.424 | 18.417 | (1.000) | 613961 | 4.00000 | |
| \$ 66 Terphenyl-d14 | 244 | | 21.542 | 21.543 | (0.918) | 37662 | 0.50000 | 0.4975 |
| 67 Butylbenzylphthalate | 149 | | 22.463 | 22.465 | (0.958) | 24470 | 0.50000 | 0.3991 |
| * 69 Chrysene-d12 | 240 | | 23.454 | 23.455 | (1.000) | 464623 | 4.00000 | |
| * 77 Perylene-d12 | 264 | | 26.187 | 26.188 | (1.000) | 521317 | 4.00000 | |
| 79 Dibenzo(a,h)anthracene | 278 | | 29.010 | 29.019 | (1.108) | 72052 | 0.50000 | 0.4220 |
| 90 N-Nitrosodimethylamine | 74 | | 4.941 | 4.948 | (0.531) | 39414 | 1.00000 | 1.069 |

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i
 Lab File ID: NT10031507S.D
 Lab Smp Id: SLC0238-CAL4
 Analysis Type: SV
 Quant Type: ISTD
 Operator: JGR
 Method File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
 Misc Info:

Calibration Date: 15-MAR-2023
 Calibration Time: 23:06
 Level: LOW
 Sample Type: AIR

Test Mode:
 Use Last Continuing Calibrator.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|------------|---------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 188081 | 94041 | 376162 | 191648 | 1.90 |
| 27 Naphthalene-d8 | 674549 | 337275 | 1349098 | 679665 | 0.76 |
| 42 Acenaphthene-d10 | 328275 | 164138 | 656550 | 335786 | 2.29 |
| 59 Phenanthrene-d10 | 597140 | 298570 | 1194280 | 613961 | 2.82 |
| 69 Chrysene-d12 | 466503 | 233252 | 933006 | 464623 | -0.40 |
| 77 Perylene-d12 | 518203 | 259102 | 1036406 | 521317 | 0.60 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 9.30 | 8.80 | 9.80 | 9.30 | 0.00 |
| 27 Naphthalene-d8 | 11.77 | 11.27 | 12.27 | 11.77 | 0.00 |
| 42 Acenaphthene-d10 | 15.39 | 14.89 | 15.89 | 15.39 | 0.00 |
| 59 Phenanthrene-d10 | 18.42 | 17.92 | 18.92 | 18.42 | 0.00 |
| 69 Chrysene-d12 | 23.45 | 22.95 | 23.95 | 23.45 | 0.00 |
| 77 Perylene-d12 | 26.19 | 25.69 | 26.69 | 26.19 | 0.00 |

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

REVIEW SUMMARY FOR FILE - NT10031507S.D

Lab ID: SLC0238-CAL4

nt10.i, 20230315.b\20230315.b\SIMABN2.m,

15-MAR-2023 23:44

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT | CCV | RRT | DELTA | COMPOUND |
|-------|-------|--------|-------|--------------|
| 0.949 | 0.000 | 0.9487 | | Benzoic acid |

RRT check based on Ccal File: 20230315.b/NT10031510S.D

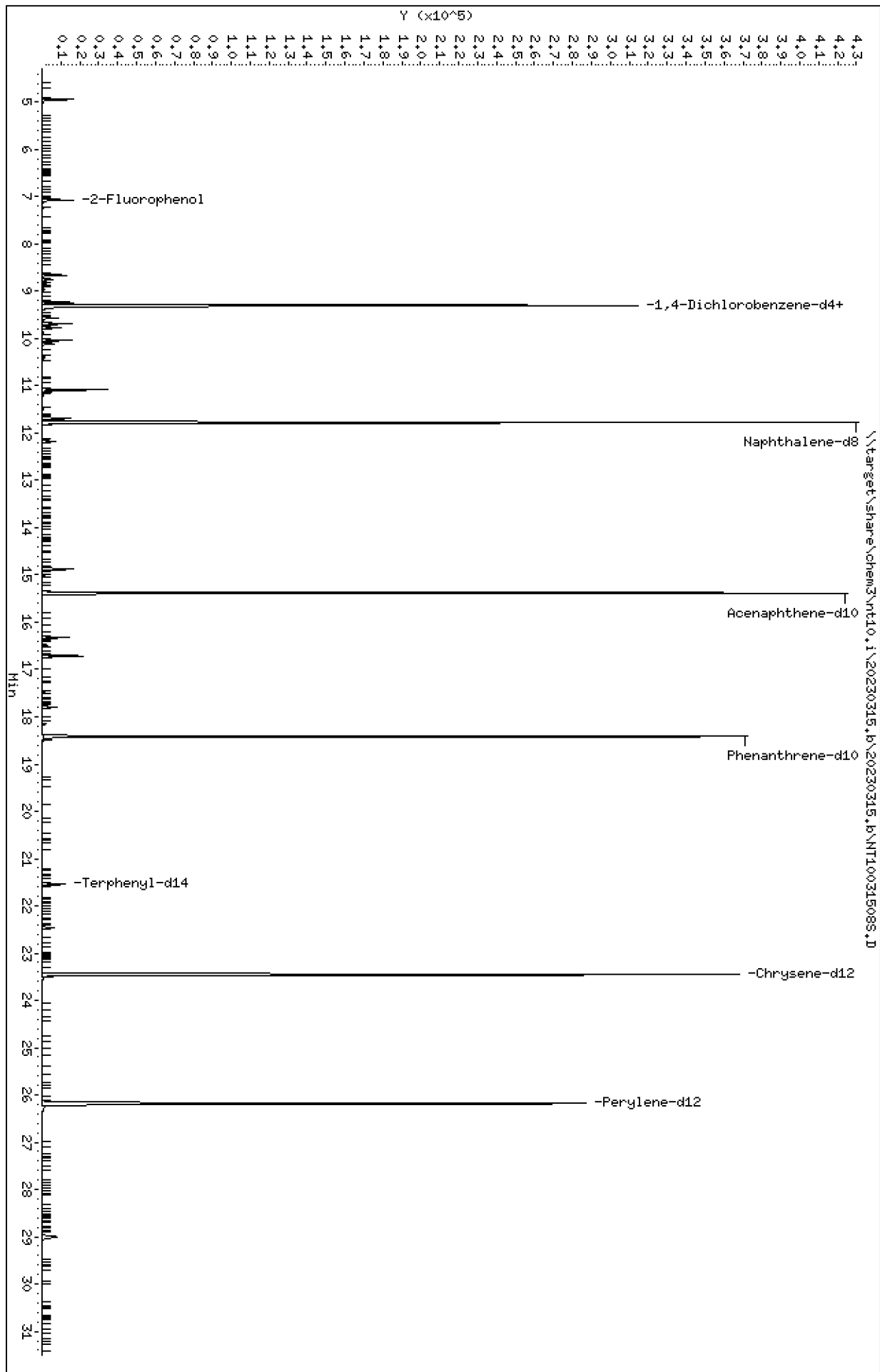
On Column LOD for nt10.i, 20230315.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

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

Data File: \\target\share\chem3\nt10.1\20230315.1\20230315.1\NT100315085.D
Date: 16-MAR-2023 00:22
Client ID:
Sample Info: SLC0238-CAL3
Volume Injected (uL): 1.0
Column phase: ZB-5msi

Instrument: nt10.1
Operator: JGR
Column diameter: 0.25



ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031508S.D
 Lab Smp Id: SLC0238-CAL3
 Inj Date : 16-MAR-2023 00:22 MS Autotune Date: 16-JAN-2023 17:42
 Operator : JGR Inst ID: nt10.i
 Smp Info : SLC0238-CAL3
 Misc Info :
 Comment :
 Method : \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
 Meth Date : 16-Mar-2023 14:39 van Quant Type: ISTD
 Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D
 Als bottle: 8 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: PSDDA.sub
 Target Version: 4.14
 Processing Host: VANS-201906

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vo} * \text{Vi}) * \text{CpndVariable}$

| Name | Value | Description |
|---------------|----------|---------------------------------|
| DF | 1.000 | Dilution Factor |
| Vo | 1000.000 | Volume of sample extracted (mL) |
| Vt | 1000.000 | Volume of final extract (uL) |
| Vi | 1.000 | Volume injected (uL) |
| Uf | 1.000 | ng unit correction factor |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT | SIG | RT | EXP RT | REL RT | RESPONSE | AMOUNTS | |
|-------------------------------|-------|-----|--------|--------|---------|----------|--------------------|-------------------|
| | | | | | | | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| \$ 1 2-Fluorophenol | 112 | | 7.073 | 7.073 | (0.761) | 16956 | 0.30000 | 0.2964 |
| 3 Phenol | 94 | | 8.657 | 8.664 | (0.931) | 15852 | 0.20000 | 0.2020 |
| 7 1,3-Dichlorobenzene | 146 | | 9.236 | 9.236 | (0.993) | 15032 | 0.20000 | 0.2047 |
| * 8 1,4-Dichlorobenzene-d4 | 152 | | 9.299 | 9.298 | (1.000) | 188644 | 4.00000 | |
| 9 1,4-Dichlorobenzene | 146 | | 9.330 | 9.329 | (1.003) | 14441 | 0.20000 | 0.2037 |
| 11 Benzyl alcohol | 79 | | 9.562 | 9.570 | (1.028) | 8244 | 0.20000 | 0.1812 |
| 12 1,2-Dichlorobenzene | 146 | | 9.687 | 9.686 | (1.042) | 14306 | 0.20000 | 0.2052 |
| 13 2-Methylphenol | 108 | | 9.772 | 9.772 | (1.051) | 10287 | 0.20000 | 0.1892 |
| 15 4-Methylphenol | 108 | | 10.036 | 10.036 | (1.079) | 10727 | 0.20000 | 0.1898 |
| 16 N-Nitroso-di-n-propylamine | 70 | | 10.114 | 10.113 | (1.088) | 7586 | 0.20000 | 0.1898 |
| 22 2,4-Dimethylphenol | 107 | | 11.078 | 11.087 | (0.941) | 23302 | 0.40000 | 0.4059 |
| 24 Benzoic acid | 105 | | 11.189 | 11.189 | (0.950) | 891 | 0.80000 | 0.02840 (M) |
| 26 1,2,4-Trichlorobenzene | 180 | | 11.690 | 11.690 | (0.993) | 11744 | 0.20000 | 0.2034 |
| * 27 Naphthalene-d8 | 136 | | 11.775 | 11.775 | (1.000) | 664117 | 4.00000 | |
| 30 Hexachlorobutadiene | 225 | | 12.169 | 12.169 | (1.033) | 7079 | 0.20000 | 0.2016 |
| 39 Dimethylphthalate | 163 | | 14.878 | 14.877 | (0.967) | 20353 | 0.20000 | 0.1965 |
| * 42 Acenaphthene-d10 | 162 | | 15.381 | 15.380 | (1.000) | 328147 | 4.00000 | |
| 50 Diethylphthalate | 149 | | 16.324 | 16.324 | (1.061) | 20971 | 0.20000 | 0.1955 |
| 54 N-Nitrosodiphenylamine | 169 | | 16.717 | 16.717 | (0.908) | 16188 | 0.20000 | 0.2000 |
| 57 Hexachlorobenzene | 284 | | 17.790 | 17.798 | (0.966) | 7274 | 0.20000 | 0.2008 |

| Compounds | QUANT SIG | | | | | | AMOUNTS | |
|---------------------------|-----------|--|--------|--------|---------|----------|--------------------|-------------------|
| | MASS | | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| 58 Pentachlorophenol | 266 | | 18.154 | 18.154 | (0.986) | 3337 | 0.40000 | 0.1667 |
| * 59 Phenanthrene-d10 | 188 | | 18.417 | 18.417 | (1.000) | 603272 | 4.00000 | |
| \$ 66 Terphenyl-d14 | 244 | | 21.543 | 21.543 | (0.918) | 14479 | 0.20000 | 0.1895 |
| 67 Butylbenzylphthalate | 149 | | 22.464 | 22.465 | (0.958) | 7787 | 0.20000 | 0.1262 |
| * 69 Chrysene-d12 | 240 | | 23.455 | 23.455 | (1.000) | 468991 | 4.00000 | |
| * 77 Perylene-d12 | 264 | | 26.181 | 26.188 | (1.000) | 525052 | 4.00000 | |
| 79 Dibenzo(a,h)anthracene | 278 | | 29.003 | 29.019 | (1.108) | 24266 | 0.20000 | 0.1409 |
| 90 N-Nitrosodimethylamine | 74 | | 4.941 | 4.948 | (0.531) | 14672 | 0.40000 | 0.4044 |

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i
 Lab File ID: NT10031508S.D
 Lab Smp Id: SLC0238-CAL3
 Analysis Type: SV
 Quant Type: ISTD
 Operator: JGR
 Method File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
 Misc Info:

Calibration Date: 15-MAR-2023
 Calibration Time: 23:06
 Level: LOW
 Sample Type: AIR

Test Mode:
 Use Last Continuing Calibrator.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|------------|---------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 188081 | 94041 | 376162 | 188644 | 0.30 |
| 27 Naphthalene-d8 | 674549 | 337275 | 1349098 | 664117 | -1.55 |
| 42 Acenaphthene-d10 | 328275 | 164138 | 656550 | 328147 | -0.04 |
| 59 Phenanthrene-d10 | 597140 | 298570 | 1194280 | 603272 | 1.03 |
| 69 Chrysene-d12 | 466503 | 233252 | 933006 | 468991 | 0.53 |
| 77 Perylene-d12 | 518203 | 259102 | 1036406 | 525052 | 1.32 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 9.30 | 8.80 | 9.80 | 9.30 | 0.00 |
| 27 Naphthalene-d8 | 11.77 | 11.27 | 12.27 | 11.78 | 0.01 |
| 42 Acenaphthene-d10 | 15.39 | 14.89 | 15.89 | 15.38 | -0.04 |
| 59 Phenanthrene-d10 | 18.42 | 17.92 | 18.92 | 18.42 | -0.04 |
| 69 Chrysene-d12 | 23.45 | 22.95 | 23.95 | 23.46 | 0.00 |
| 77 Perylene-d12 | 26.19 | 25.69 | 26.69 | 26.18 | -0.03 |

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

REVIEW SUMMARY FOR FILE - NT10031508S.D

Lab ID: SLC0238-CAL3

nt10.i, 20230315.b\20230315.b\SIMABN2.m,

16-MAR-2023 00:22

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT | CCV | RRT | DELTA | COMPOUND |
|-------|-------|--------|-------|--------------|
| 0.950 | 0.000 | 0.9502 | | Benzoic acid |

RRT check based on Ccal File: 20230315.b/NT10031510S.D

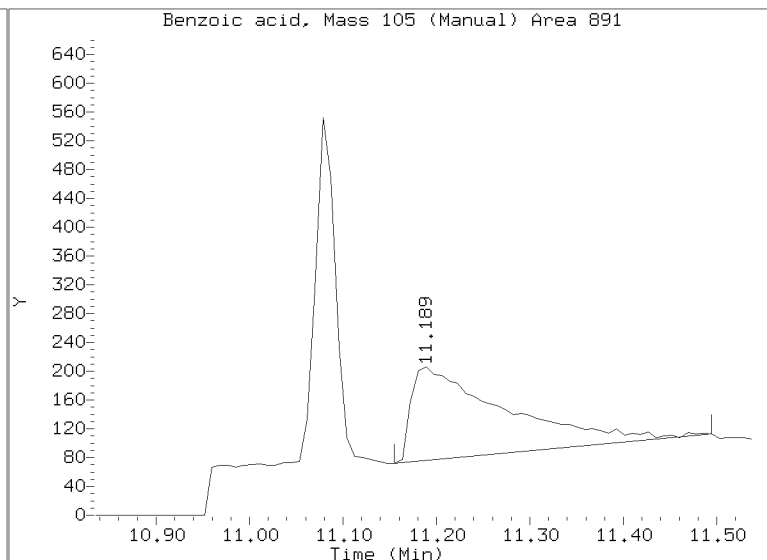
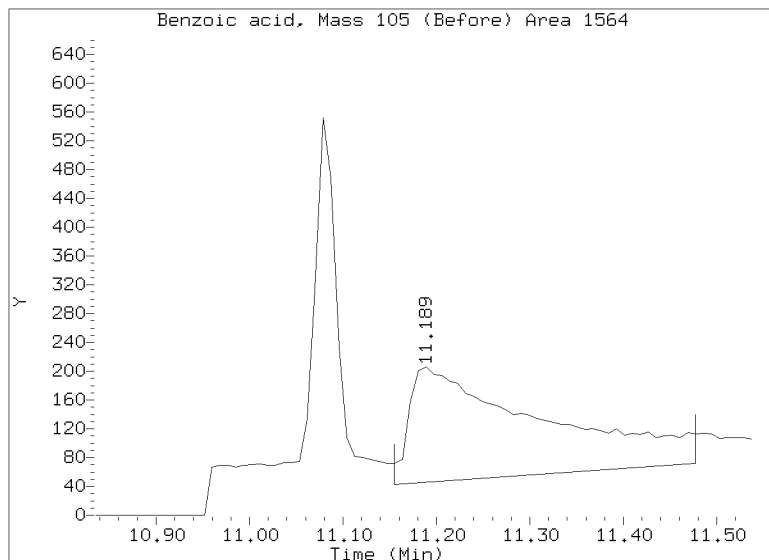
On Column LOD for nt10.i, 20230315.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

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

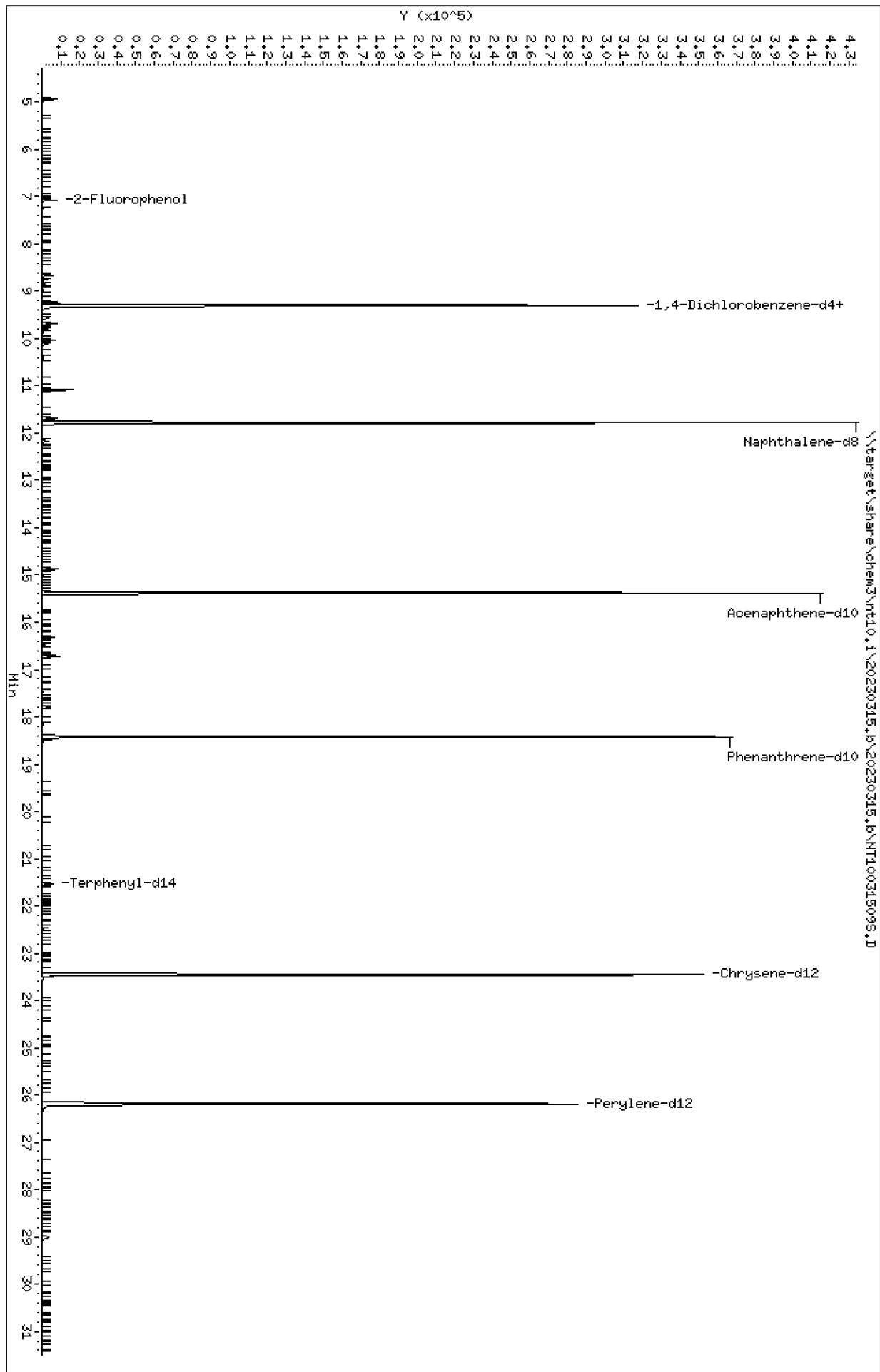
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230315.b/20230315.b/NT10031508S.D
Injection Date: 16-MAR-2023 00:22
Lab ID: SLC0238-CAL3 Client ID:
Report Date: 03/16/2023 14:49



Data File: \\target\share\chem3\nt10.1\20230315.1\20230315.1\NT10031509S.D
Date: 16-MAR-2023 01:00
Client ID:
Sample Info: SLC0238-CAL2
Volume Injected (uL): 1.0
Column phase: ZB-5msi

Instrument: nt10.1
Operator: JGR
Column diameter: 0.25



ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031509S.D
 Lab Smp Id: SLC0238-CAL2
 Inj Date : 16-MAR-2023 01:00 MS Autotune Date: 16-JAN-2023 17:42
 Operator : JGR Inst ID: nt10.i
 Smp Info : SLC0238-CAL2
 Misc Info :
 Comment :
 Method : \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
 Meth Date : 16-Mar-2023 14:39 van Quant Type: ISTD
 Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D
 Als bottle: 9 Calibration Sample, Level: 2
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: PSDDA.sub
 Target Version: 4.14
 Processing Host: VANS-201906

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

| Name | Value | Description |
|---------------|----------|---------------------------------|
| DF | 1.000 | Dilution Factor |
| Vo | 1000.000 | Volume of sample extracted (mL) |
| Vt | 1000.000 | Volume of final extract (uL) |
| Vi | 1.000 | Volume injected (uL) |
| Uf | 1.000 | ng unit correction factor |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT | SIG | RT | EXP RT | REL RT | RESPONSE | AMOUNTS | |
|-------------------------------|-------|-----|------------------------|--------|---------|----------|-----------------|----------------|
| | | | | | | | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| \$ 1 2-Fluorophenol | 112 | | 7.073 | 7.073 | (0.761) | 8469 | 0.15000 | 0.1462 |
| 3 Phenol | 94 | | 8.657 | 8.664 | (0.931) | 7915 | 0.10000 | 0.09961 |
| 7 1,3-Dichlorobenzene | 146 | | 9.236 | 9.236 | (0.993) | 7959 | 0.10000 | 0.1070 |
| * 8 1,4-Dichlorobenzene-d4 | 152 | | 9.298 | 9.298 | (1.000) | 190985 | 4.00000 | |
| 9 1,4-Dichlorobenzene | 146 | | 9.329 | 9.329 | (1.003) | 7577 | 0.10000 | 0.1056 |
| 11 Benzyl alcohol | 79 | | 9.562 | 9.570 | (1.028) | 3916 | 0.10000 | 0.08501 |
| 12 1,2-Dichlorobenzene | 146 | | 9.686 | 9.686 | (1.042) | 7452 | 0.10000 | 0.1056 |
| 13 2-Methylphenol | 108 | | 9.772 | 9.772 | (1.051) | 5108 | 0.10000 | 0.09278 |
| 15 4-Methylphenol | 108 | | 10.036 | 10.036 | (1.079) | 5283 | 0.10000 | 0.09234 |
| 16 N-Nitroso-di-n-propylamine | 70 | | 10.113 | 10.113 | (1.088) | 3707 | 0.10000 | 0.09162 |
| 22 2,4-Dimethylphenol | 107 | | 11.086 | 11.087 | (0.942) | 11249 | 0.20000 | 0.1901 |
| 24 Benzoic acid | 105 | | Compound Not Detected. | | | | | |
| 26 1,2,4-Trichlorobenzene | 180 | | 11.689 | 11.690 | (0.993) | 6182 | 0.10000 | 0.1038 |
| * 27 Naphthalene-d8 | 136 | | 11.774 | 11.775 | (1.000) | 684638 | 4.00000 | |
| 30 Hexachlorobutadiene | 225 | | 12.176 | 12.169 | (1.034) | 3646 | 0.10000 | 0.1007 |
| 39 Dimethylphthalate | 163 | | 14.877 | 14.877 | (0.967) | 10444 | 0.10000 | 0.1008 |
| * 42 Acenaphthene-d10 | 162 | | 15.387 | 15.380 | (1.000) | 328366 | 4.00000 | |
| 50 Diethylphthalate | 149 | | 16.331 | 16.324 | (1.061) | 9630 | 0.10000 | 0.08971 |
| 54 N-Nitrosodiphenylamine | 169 | | 16.716 | 16.717 | (0.907) | 7688 | 0.10000 | 0.09515 |
| 57 Hexachlorobenzene | 284 | | 17.797 | 17.798 | (0.966) | 3777 | 0.10000 | 0.1044 |

| Compounds | QUANT SIG | | | | | | AMOUNTS | |
|---------------------------|-----------|--|--------|--------|---------|----------|--------------------|-------------------|
| | MASS | | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| 58 Pentachlorophenol | 266 | | 18.153 | 18.154 | (0.985) | 1130 | 0.20000 | 0.05659 (M) |
| * 59 Phenanthrene-d10 | 188 | | 18.424 | 18.417 | (1.000) | 602202 | 4.00000 | |
| \$ 66 Terphenyl-d14 | 244 | | 21.542 | 21.543 | (0.918) | 6866 | 0.10000 | 0.09337 |
| 67 Butylbenzylphthalate | 149 | | 22.463 | 22.465 | (0.958) | 3284 | 0.10000 | 0.05534 |
| * 69 Chrysene-d12 | 240 | | 23.454 | 23.455 | (1.000) | 451316 | 4.00000 | |
| * 77 Perylene-d12 | 264 | | 26.187 | 26.188 | (1.000) | 517188 | 4.00000 | |
| 79 Dibenzo(a,h)anthracene | 278 | | 29.010 | 29.019 | (1.108) | 11218 | 0.10000 | 0.06608 |
| 90 N-Nitrosodimethylamine | 74 | | 4.941 | 4.948 | (0.531) | 7449 | 0.20000 | 0.2028 |

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i
 Lab File ID: NT10031509S.D
 Lab Smp Id: SLC0238-CAL2
 Analysis Type: SV
 Quant Type: ISTD
 Operator: JGR
 Method File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
 Misc Info:

Calibration Date: 15-MAR-2023
 Calibration Time: 23:06
 Level: LOW
 Sample Type: AIR

Test Mode:
 Use Last Continuing Calibrator.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|------------|---------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 188081 | 94041 | 376162 | 190985 | 1.54 |
| 27 Naphthalene-d8 | 674549 | 337275 | 1349098 | 684638 | 1.50 |
| 42 Acenaphthene-d10 | 328275 | 164138 | 656550 | 328366 | 0.03 |
| 59 Phenanthrene-d10 | 597140 | 298570 | 1194280 | 602202 | 0.85 |
| 69 Chrysene-d12 | 466503 | 233252 | 933006 | 451316 | -3.26 |
| 77 Perylene-d12 | 518203 | 259102 | 1036406 | 517188 | -0.20 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 9.30 | 8.80 | 9.80 | 9.30 | 0.00 |
| 27 Naphthalene-d8 | 11.77 | 11.27 | 12.27 | 11.77 | 0.00 |
| 42 Acenaphthene-d10 | 15.39 | 14.89 | 15.89 | 15.39 | 0.00 |
| 59 Phenanthrene-d10 | 18.42 | 17.92 | 18.92 | 18.42 | 0.00 |
| 69 Chrysene-d12 | 23.45 | 22.95 | 23.95 | 23.45 | 0.00 |
| 77 Perylene-d12 | 26.19 | 25.69 | 26.69 | 26.19 | 0.00 |

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

REVIEW SUMMARY FOR FILE - NT10031509S.D

Lab ID: SLC0238-CAL2

nt10.i, 20230315.b\20230315.b\SIMABN2.m, 16-MAR-2023 01:00

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT CCV RRT DELTA COMPOUND

NONE

RRT check based on Ccal File: 20230315.b/NT10031510S.D

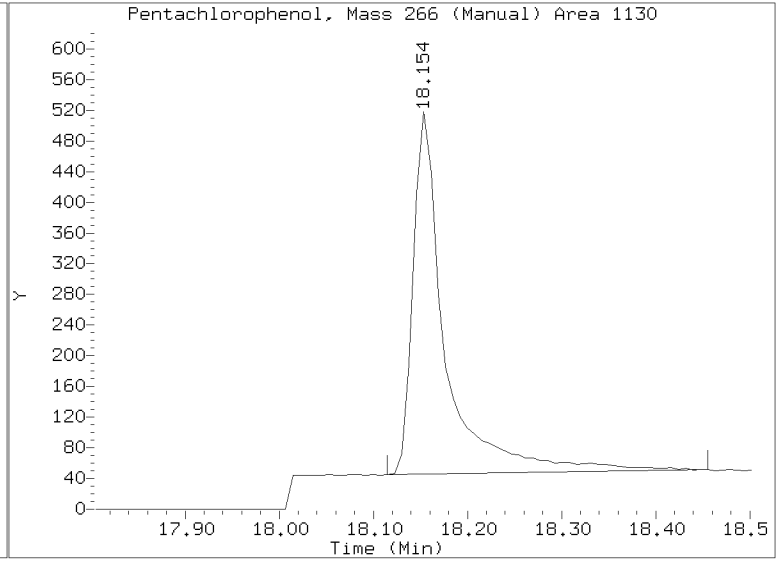
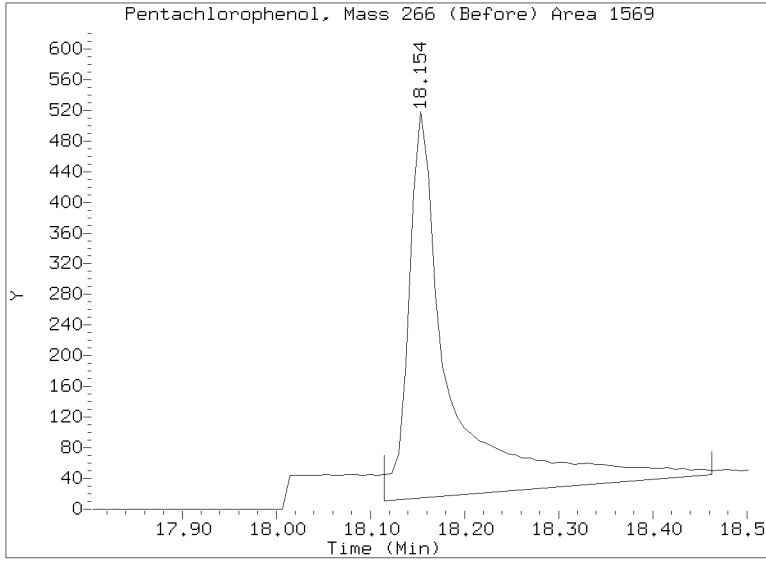
On Column LOD for nt10.i, 20230315.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

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

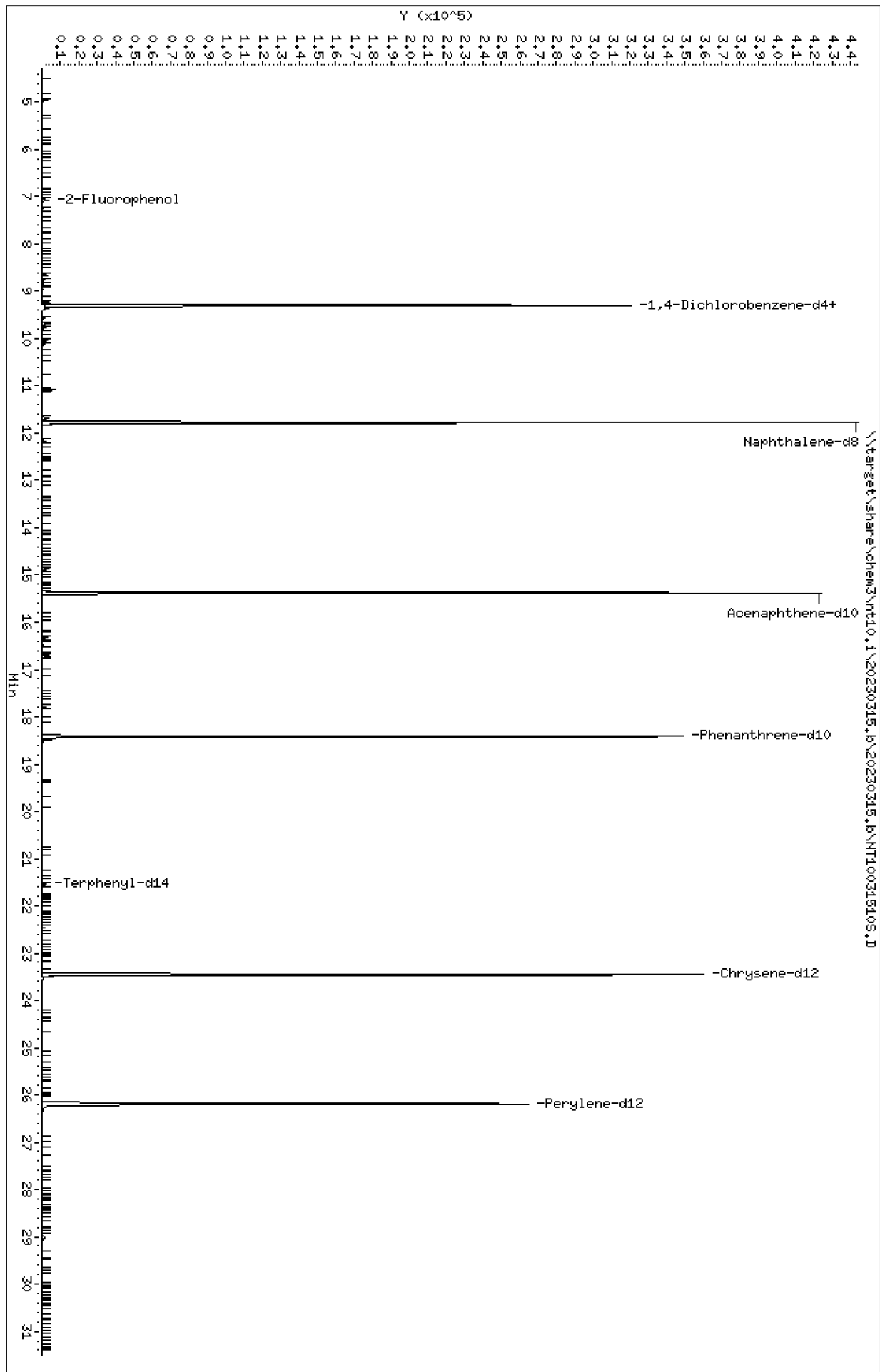
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230315.b/20230315.b/NT10031509S.D
Injection Date: 16-MAR-2023 01:00
Lab ID: SLC0238-CAL2 Client ID:
Report Date: 03/16/2023 14:49



Data File: \\target\share\chem3\nt10.1\20230315.1\20230315.1\NT10031510S.D
 Date : 16-MAR-2023 01:38
 Client ID:
 Sample Info: SLC0238-CAL1
 Volume Injected (uL): 1.0
 Column phase: ZB-5msi

Instrument: nt10.1
 Operator: JGR
 Column diameter: 0.25



ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031510S.D
 Lab Smp Id: SLC0238-CAL1
 Inj Date : 16-MAR-2023 01:38 MS Autotune Date: 16-JAN-2023 17:42
 Operator : JGR Inst ID: nt10.i
 Smp Info : SLC0238-CAL1
 Misc Info :
 Comment :
 Method : \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
 Meth Date : 16-Mar-2023 14:39 van Quant Type: ISTD
 Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D
 Als bottle: 10 Calibration Sample, Level: 1
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: PSDDA.sub
 Target Version: 4.14
 Processing Host: VANS-201906

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

| Name | Value | Description |
|---------------|----------|---------------------------------|
| DF | 1.000 | Dilution Factor |
| Vo | 1000.000 | Volume of sample extracted (mL) |
| Vt | 1000.000 | Volume of final extract (uL) |
| Vi | 1.000 | Volume injected (uL) |
| Uf | 1.000 | ng unit correction factor |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT | SIG | RT | EXP RT | REL RT | RESPONSE | AMOUNTS | |
|-------------------------------|-------|-----|------------------------|--------|---------|----------|---------|---------|
| | | | | | | | CAL-AMT | ON-COL |
| | MASS | | | | | | (ug/mL) | (ug/mL) |
| \$ 1 2-Fluorophenol | 112 | | 7.073 | 7.073 | (0.761) | 3849 | 0.07500 | 0.06782 |
| 3 Phenol | 94 | | 8.664 | 8.664 | (0.932) | 3653 | 0.05000 | 0.04692 |
| 7 1,3-Dichlorobenzene | 146 | | 9.236 | 9.236 | (0.993) | 3896 | 0.05000 | 0.05347 |
| * 8 1,4-Dichlorobenzene-d4 | 152 | | 9.298 | 9.298 | (1.000) | 187154 | 4.00000 | |
| 9 1,4-Dichlorobenzene | 146 | | 9.329 | 9.329 | (1.003) | 3725 | 0.05000 | 0.05296 |
| 11 Benzyl alcohol | 79 | | 9.570 | 9.570 | (1.029) | 1831 | 0.05000 | 0.04056 |
| 12 1,2-Dichlorobenzene | 146 | | 9.686 | 9.686 | (1.042) | 3651 | 0.05000 | 0.05278 |
| 13 2-Methylphenol | 108 | | 9.772 | 9.772 | (1.051) | 2592 | 0.05000 | 0.04804 |
| 15 4-Methylphenol | 108 | | 10.036 | 10.036 | (1.079) | 2412 | 0.05000 | 0.04302 |
| 16 N-Nitroso-di-n-propylamine | 70 | | 10.113 | 10.113 | (1.088) | 1741 | 0.05000 | 0.04391 |
| 22 2,4-Dimethylphenol | 107 | | 11.087 | 11.087 | (0.942) | 4967 | 0.10000 | 0.08781 |
| 24 Benzoic acid | 105 | | Compound Not Detected. | | | | | |
| 26 1,2,4-Trichlorobenzene | 180 | | 11.690 | 11.690 | (0.993) | 3146 | 0.05000 | 0.05529 |
| * 27 Naphthalene-d8 | 136 | | 11.775 | 11.775 | (1.000) | 654413 | 4.00000 | |
| 30 Hexachlorobutadiene | 225 | | 12.169 | 12.169 | (1.033) | 1885 | 0.05000 | 0.05449 |
| 39 Dimethylphthalate | 163 | | 14.877 | 14.877 | (0.967) | 5095 | 0.05000 | 0.05062 |
| * 42 Acenaphthene-d10 | 162 | | 15.380 | 15.380 | (1.000) | 318969 | 4.00000 | |
| 50 Diethylphthalate | 149 | | 16.324 | 16.324 | (1.061) | 4381 | 0.05000 | 0.04201 |
| 54 N-Nitrosodiphenylamine | 169 | | 16.717 | 16.717 | (0.908) | 3307 | 0.05000 | 0.04226 |
| 57 Hexachlorobenzene | 284 | | 17.798 | 17.798 | (0.966) | 1826 | 0.05000 | 0.05212 |

| Compounds | QUANT SIG | | | | | | AMOUNTS | |
|---------------------------|-----------|--|--------|--------|---------|----------|--------------------|-------------------|
| | MASS | | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| ===== | ===== | | ===== | ===== | ===== | ===== | ===== | ===== |
| 58 Pentachlorophenol | 266 | | 18.154 | 18.154 | (0.986) | 337 | 0.10000 | 0.01743 (M) |
| * 59 Phenanthrene-d10 | 188 | | 18.417 | 18.417 | (1.000) | 583319 | 4.00000 | |
| \$ 66 Terphenyl-d14 | 244 | | 21.543 | 21.543 | (0.918) | 3504 | 0.05000 | 0.04882 |
| 67 Butylbenzylphthalate | 149 | | 22.464 | 22.465 | (0.958) | 1336 | 0.05000 | 0.02307 |
| * 69 Chrysene-d12 | 240 | | 23.455 | 23.455 | (1.000) | 440533 | 4.00000 | |
| * 77 Perylene-d12 | 264 | | 26.188 | 26.188 | (1.000) | 488759 | 4.00000 | |
| 79 Dibenzo(a,h)anthracene | 278 | | 29.018 | 29.019 | (1.108) | 4785 | 0.05000 | 0.02982 |
| 90 N-Nitrosodimethylamine | 74 | | 4.948 | 4.948 | (0.532) | 3496 | 0.10000 | 0.09712 |

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i
 Lab File ID: NT10031510S.D
 Lab Smp Id: SLC0238-CAL1
 Analysis Type: SV
 Quant Type: ISTD
 Operator: JGR
 Method File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
 Misc Info:

Calibration Date: 15-MAR-2023
 Calibration Time: 23:06
 Level: LOW
 Sample Type: AIR

Test Mode:
 Use Last Continuing Calibrator.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|------------|---------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 188081 | 94041 | 376162 | 187154 | -0.49 |
| 27 Naphthalene-d8 | 674549 | 337275 | 1349098 | 654413 | -2.99 |
| 42 Acenaphthene-d10 | 328275 | 164138 | 656550 | 318969 | -2.83 |
| 59 Phenanthrene-d10 | 597140 | 298570 | 1194280 | 583319 | -2.31 |
| 69 Chrysene-d12 | 466503 | 233252 | 933006 | 440533 | -5.57 |
| 77 Perylene-d12 | 518203 | 259102 | 1036406 | 488759 | -5.68 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 9.30 | 8.80 | 9.80 | 9.30 | 0.00 |
| 27 Naphthalene-d8 | 11.77 | 11.27 | 12.27 | 11.78 | 0.01 |
| 42 Acenaphthene-d10 | 15.39 | 14.89 | 15.89 | 15.38 | -0.04 |
| 59 Phenanthrene-d10 | 18.42 | 17.92 | 18.92 | 18.42 | -0.04 |
| 69 Chrysene-d12 | 23.45 | 22.95 | 23.95 | 23.46 | 0.00 |
| 77 Perylene-d12 | 26.19 | 25.69 | 26.69 | 26.19 | 0.00 |

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

REVIEW SUMMARY FOR FILE - NT10031510S.D

Lab ID: SLC0238-CAL1

nt10.i, 20230315.b\20230315.b\SIMABN2.m,

16-MAR-2023 01:38

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

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

NONE

RRT check based on Ccal File: 20230315.b/NT10031510S.D

On Column LOD for nt10.i, 20230315.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

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

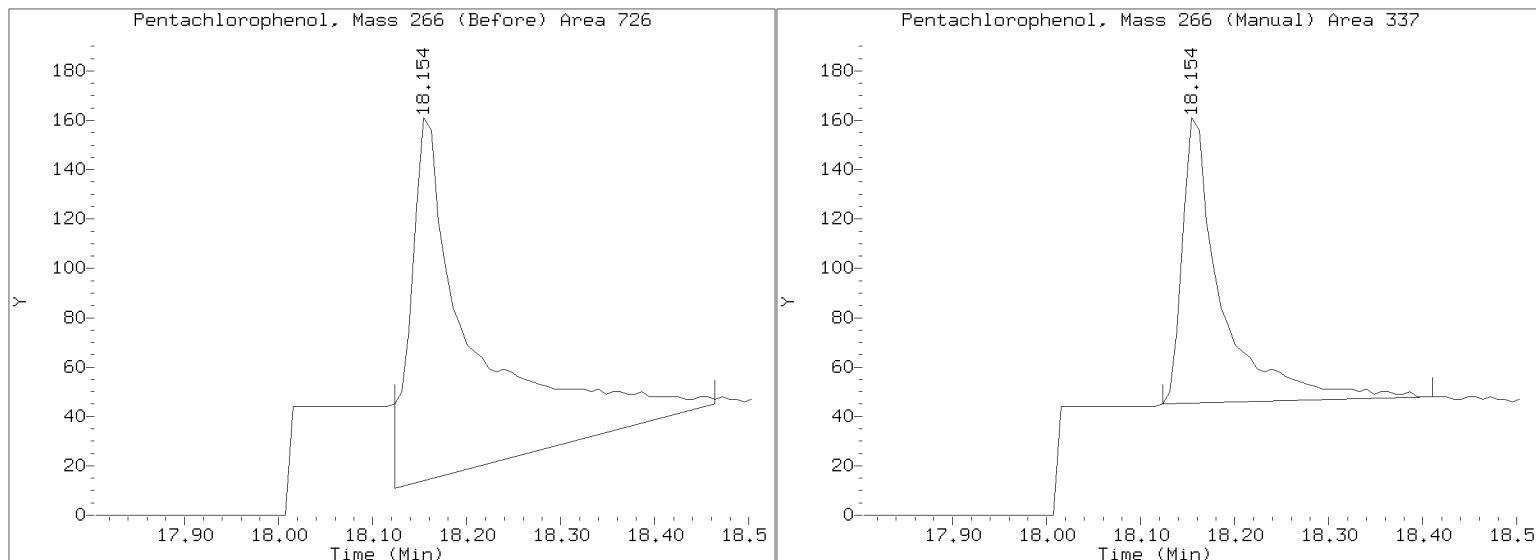
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230315.b/20230315.b/NT10031510S.D

Injection Date: 16-MAR-2023 01:38

Lab ID: SLC0238-CAL1 Client ID:

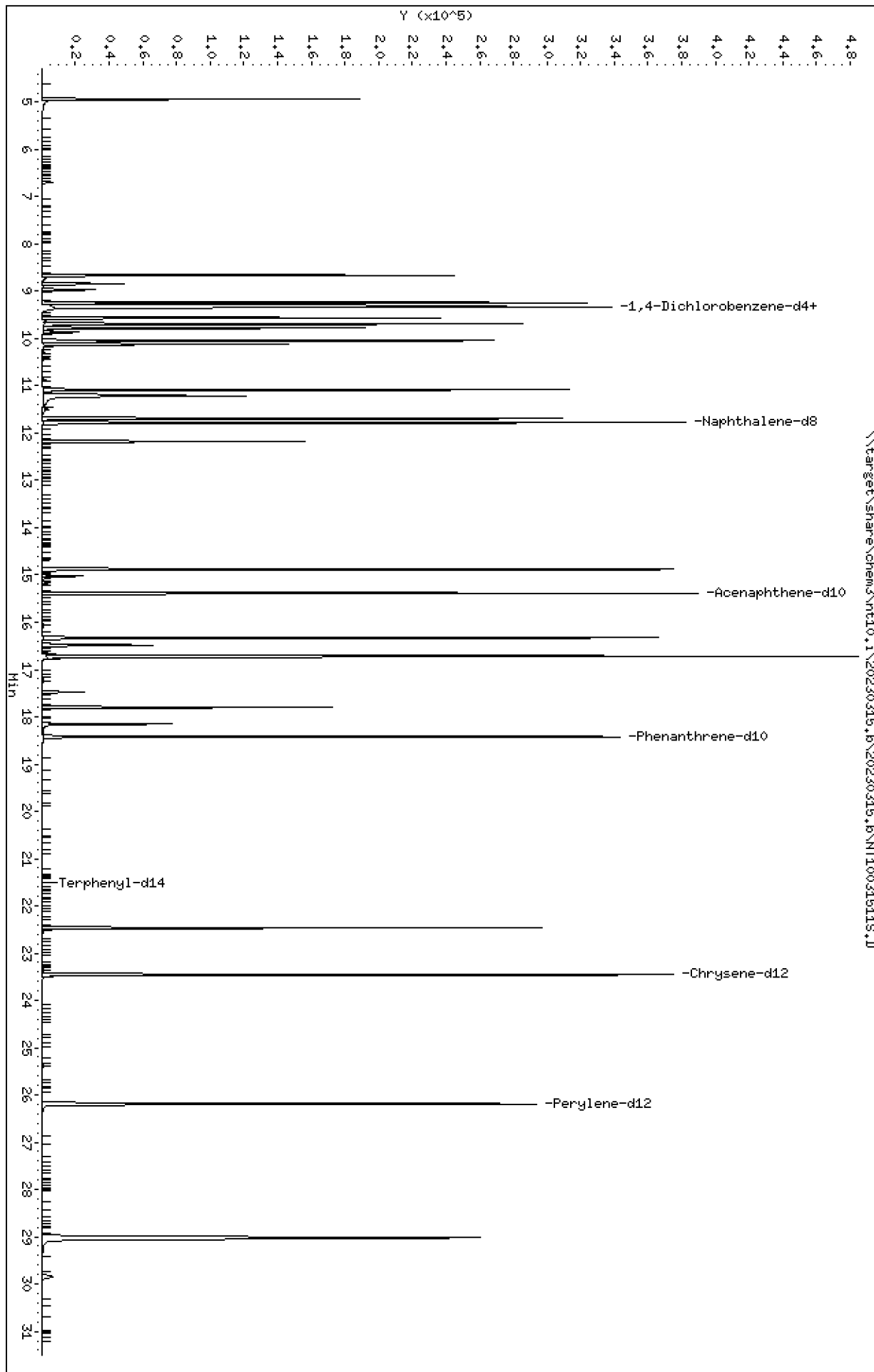
Report Date: 03/16/2023 14:49



Data File: \\target\share\chem3\nt10.1\20230315.1\20230315.1\NT100315115.D
 Date: 16-MAR-2023 02:16
 Client ID:
 Sample Info: SLC0238-SCV1
 Volume Injected (uL): 1.0
 Column phase: ZB-5msi

Instrument: nt10.1
 Operator: JGR
 Column diameter: 0.25

\\target\share\chem3\nt10.1\20230315.1\20230315.1\NT100315115.D



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

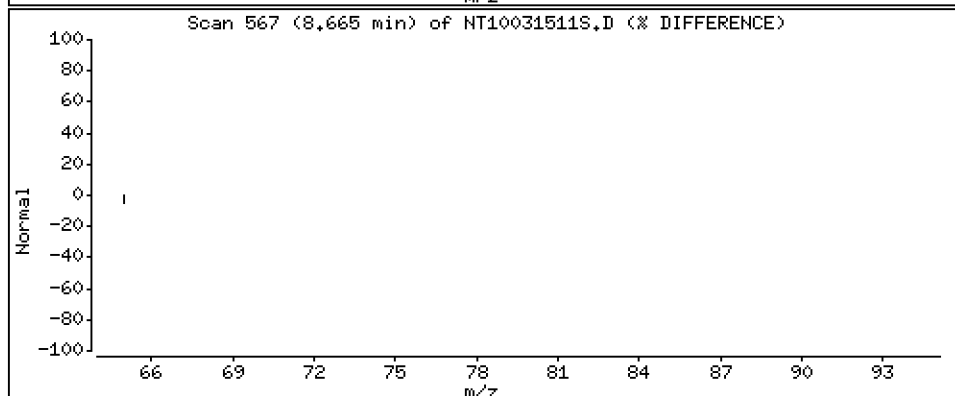
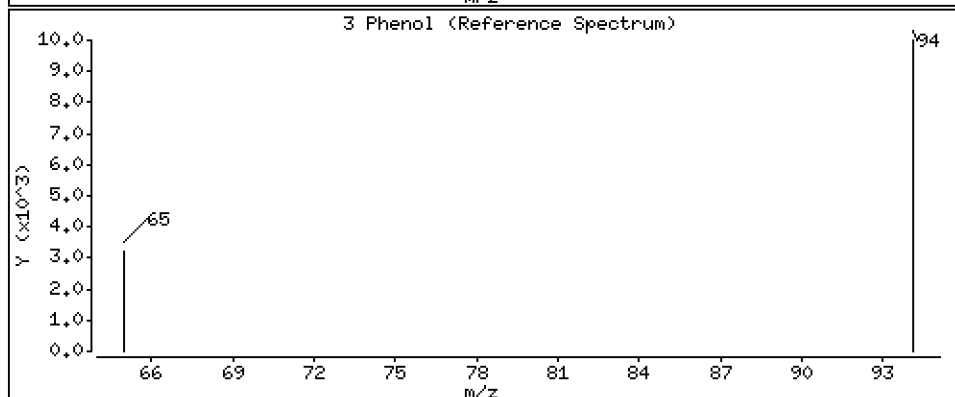
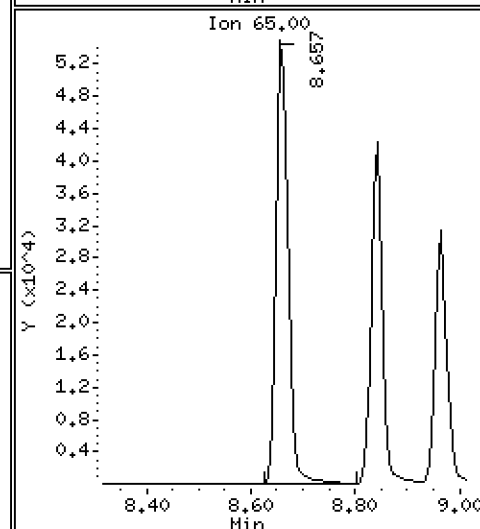
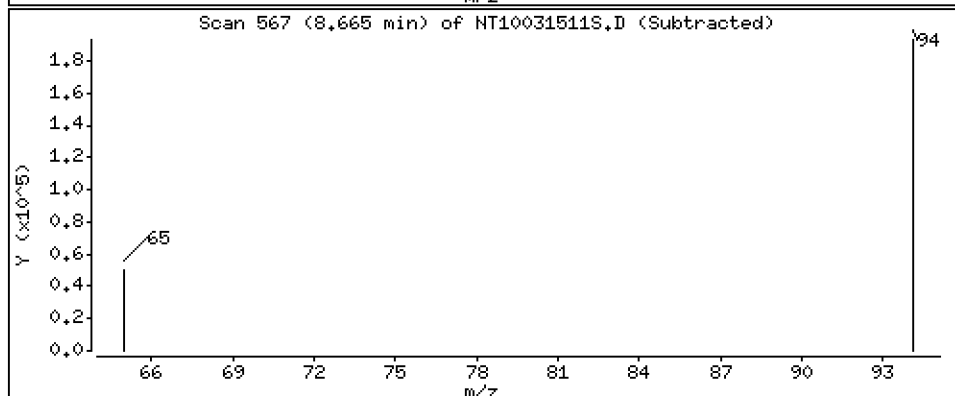
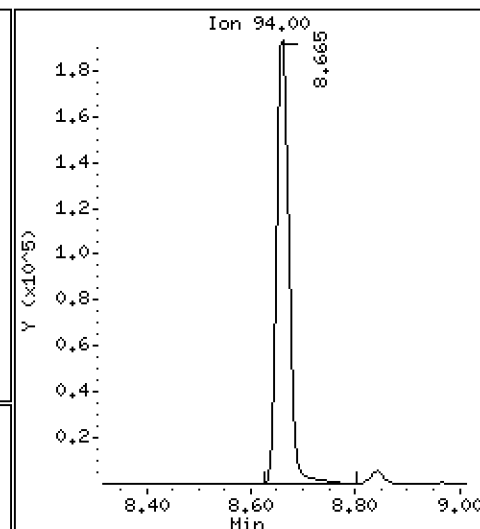
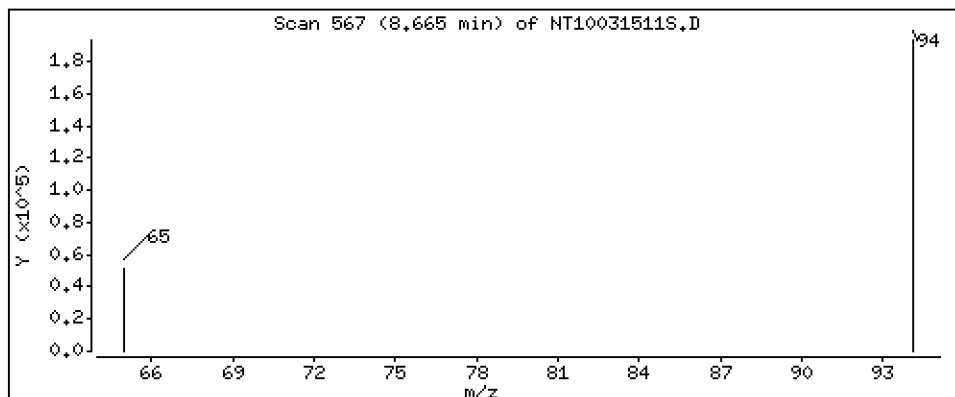
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

3 Phenol

Concentration: 4.373 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

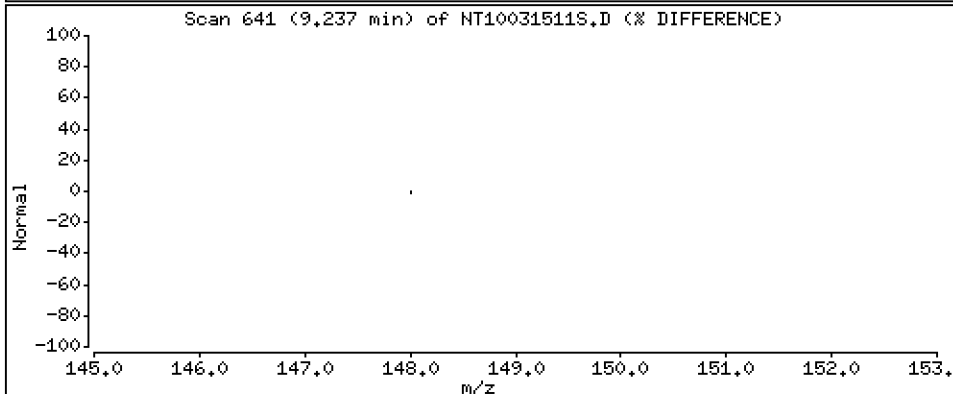
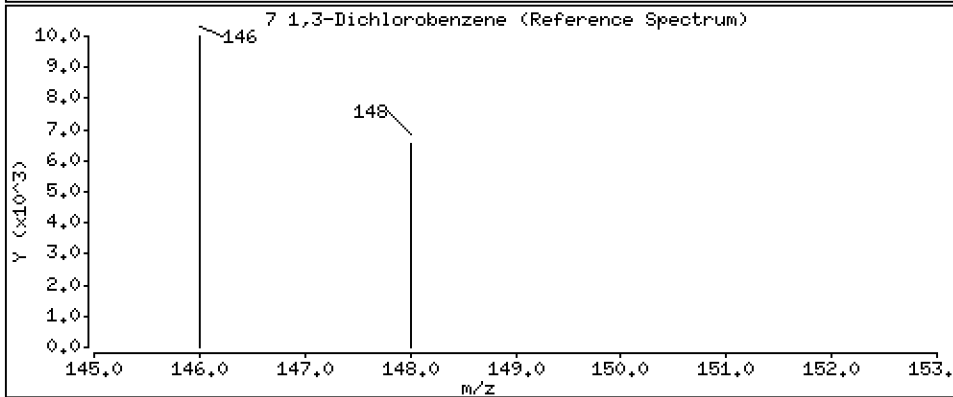
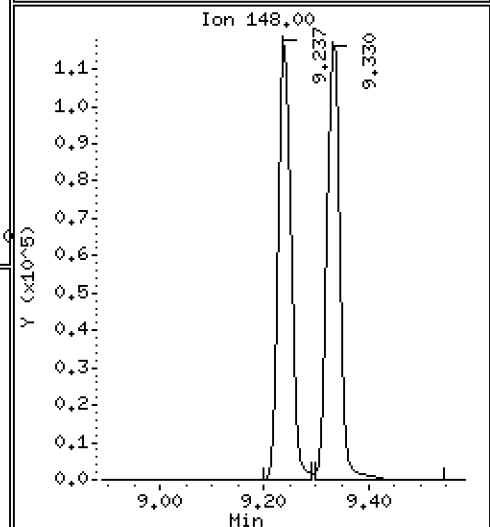
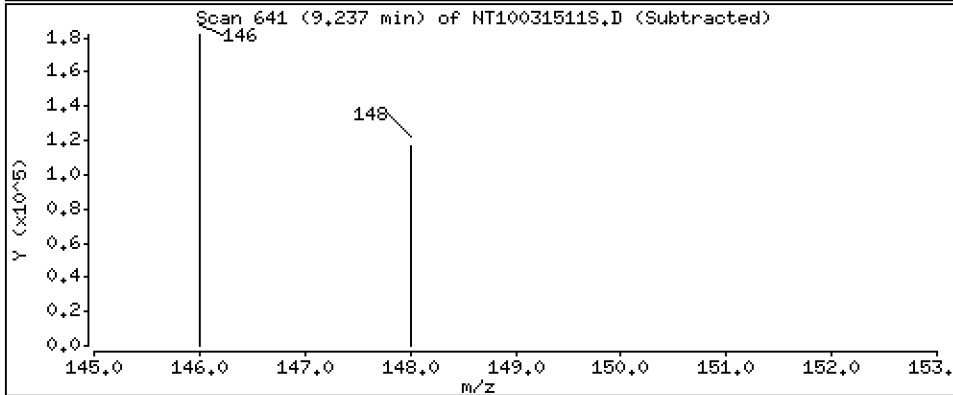
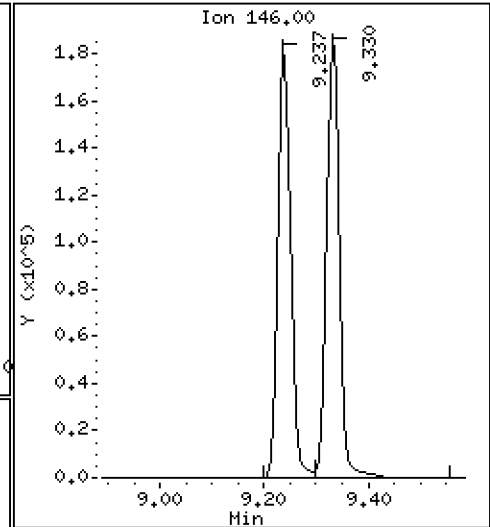
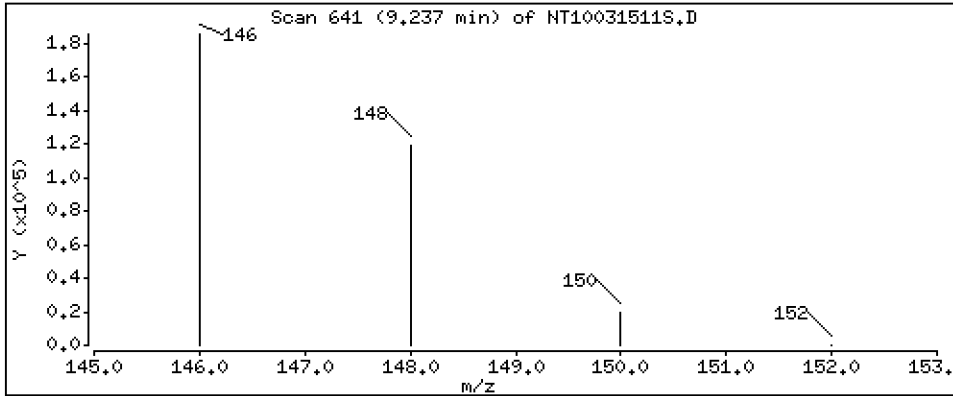
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

7 1,3-Dichlorobenzene

Concentration: 4.643 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

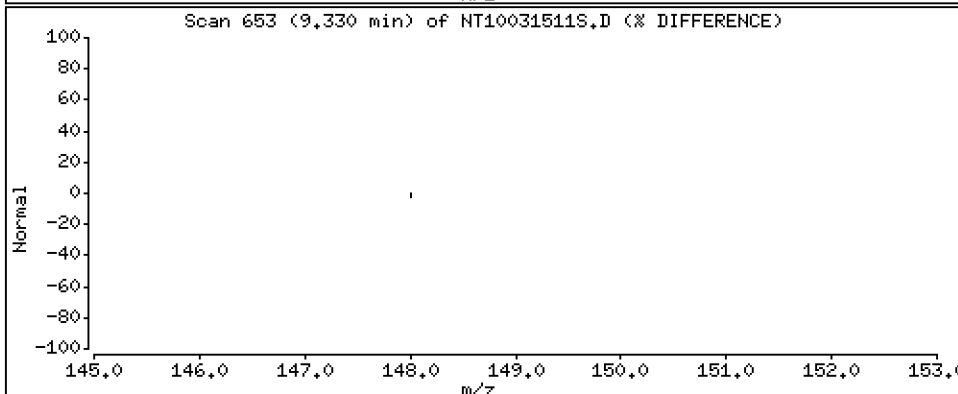
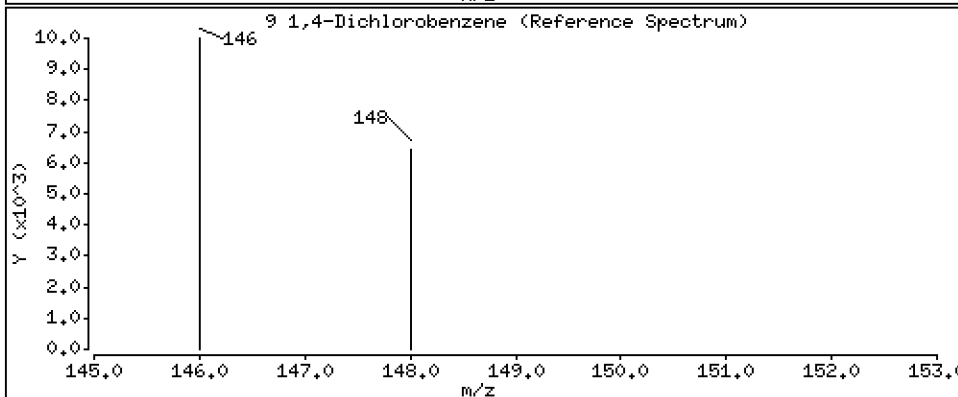
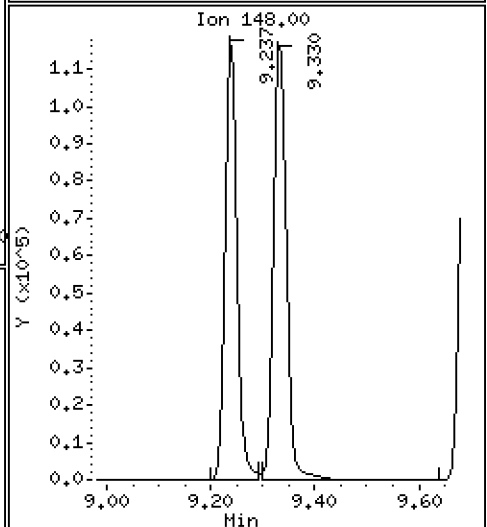
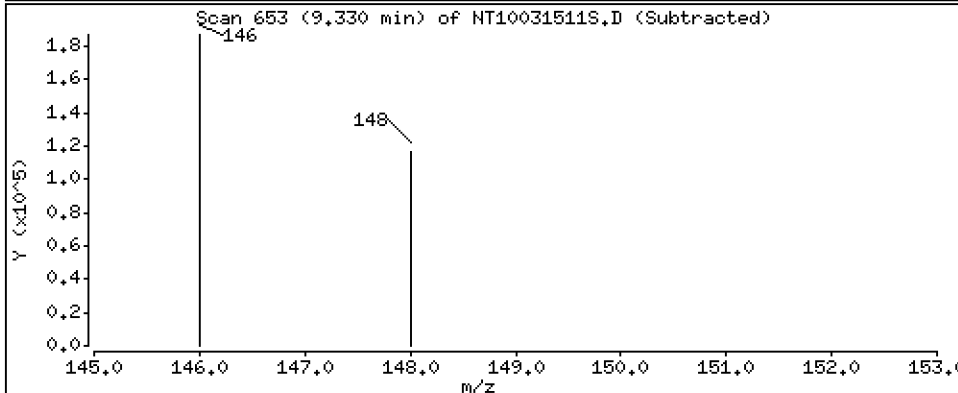
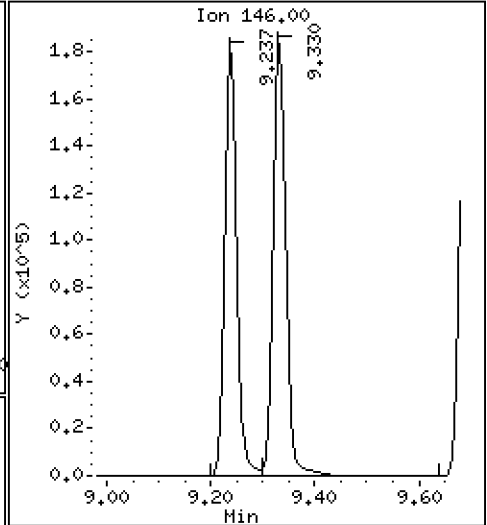
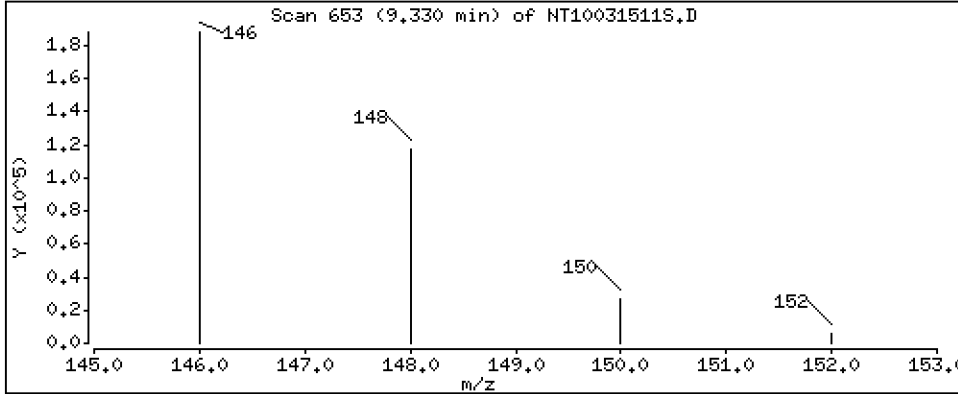
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

9 1,4-Dichlorobenzene

Concentration: 4.838 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

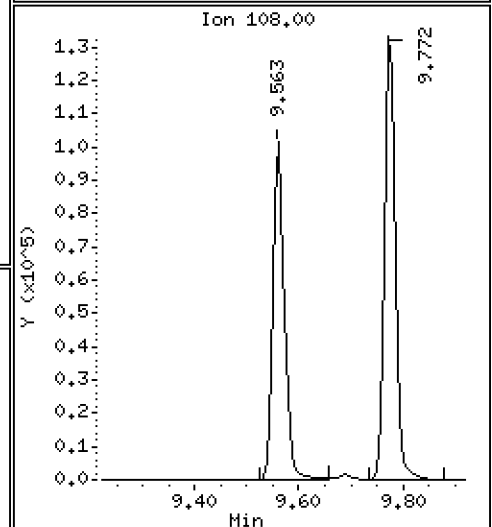
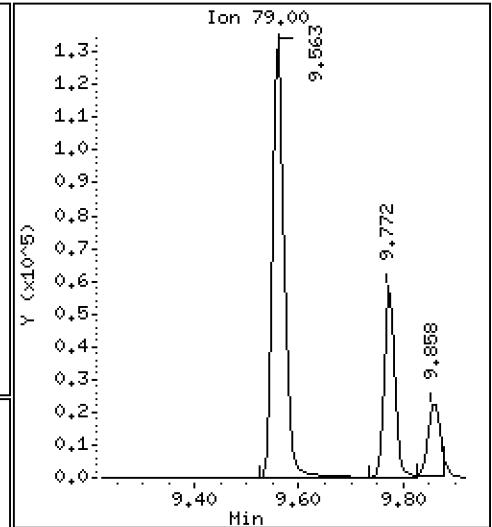
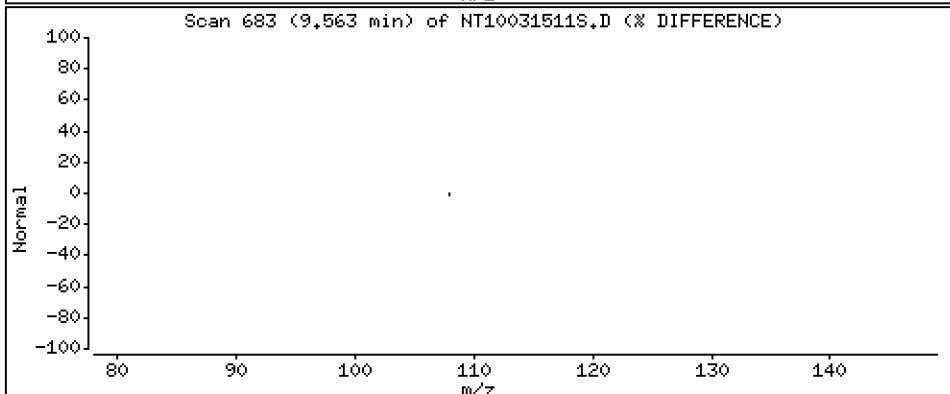
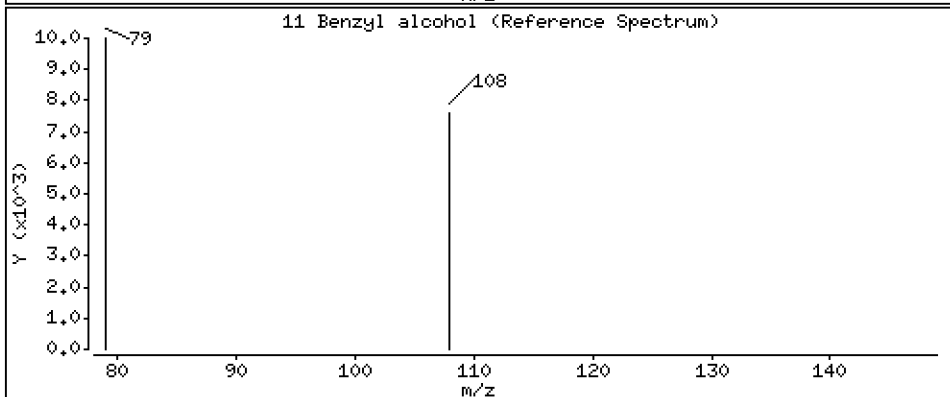
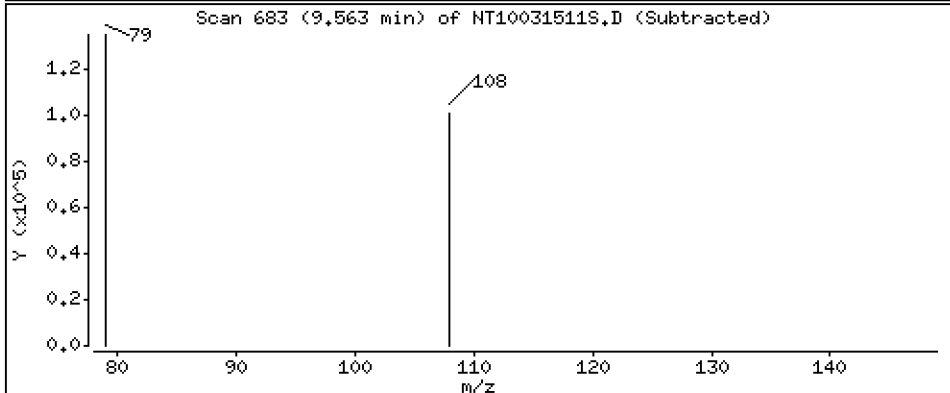
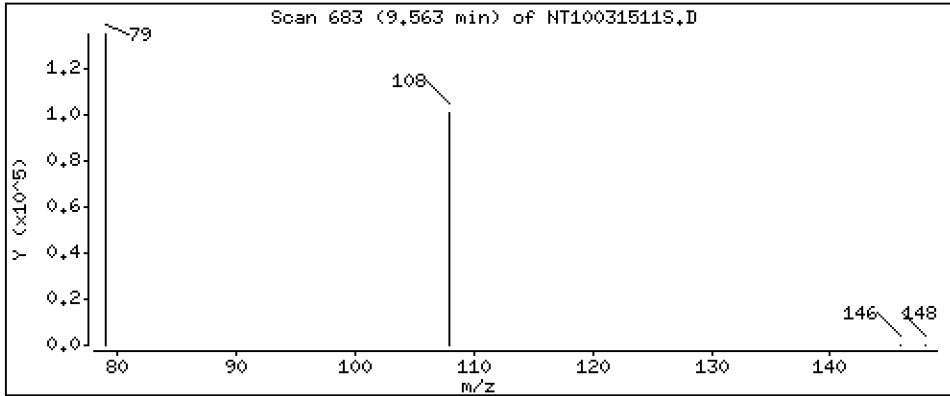
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 5.181 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

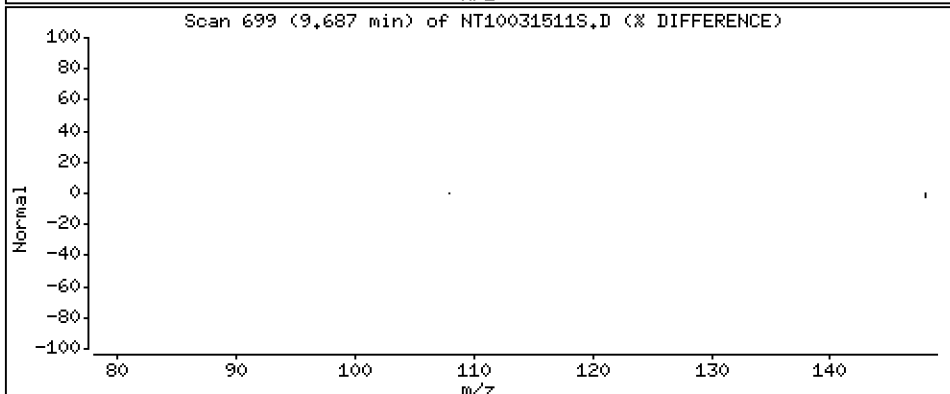
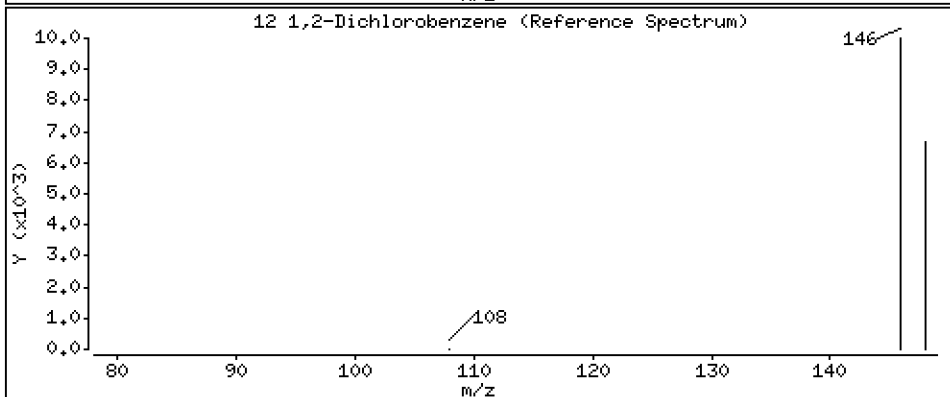
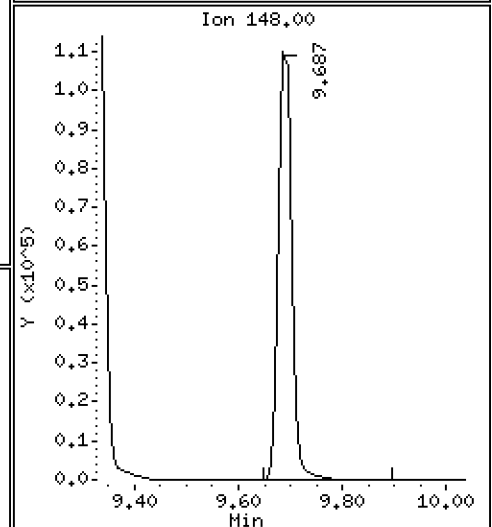
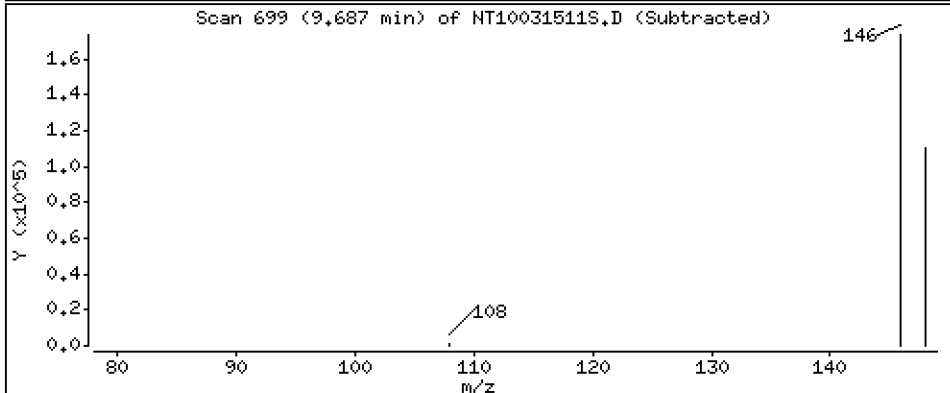
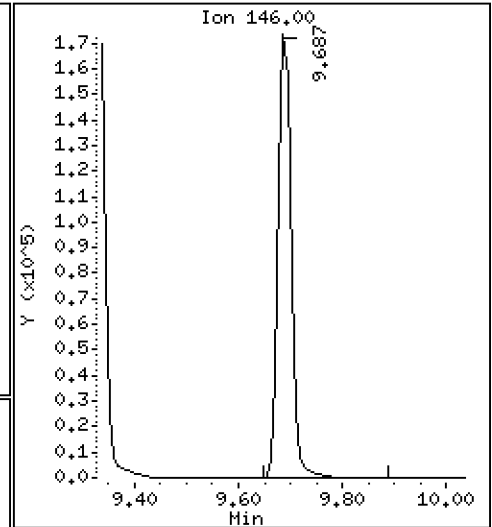
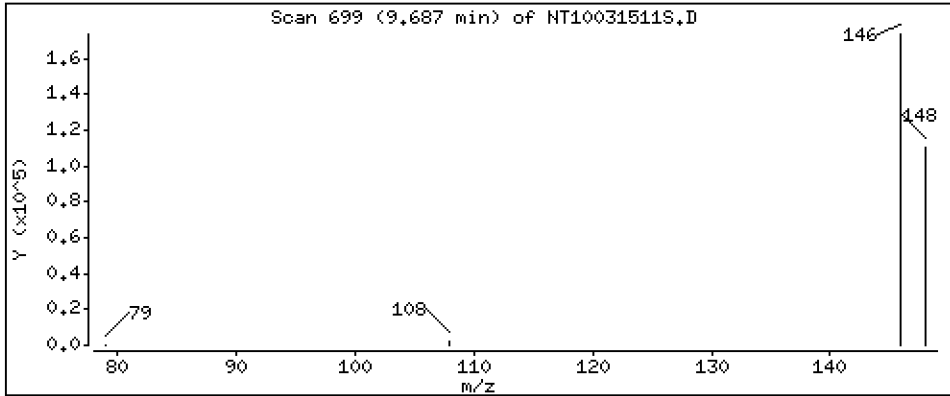
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

12 1,2-Dichlorobenzene

Concentration: 4.679 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

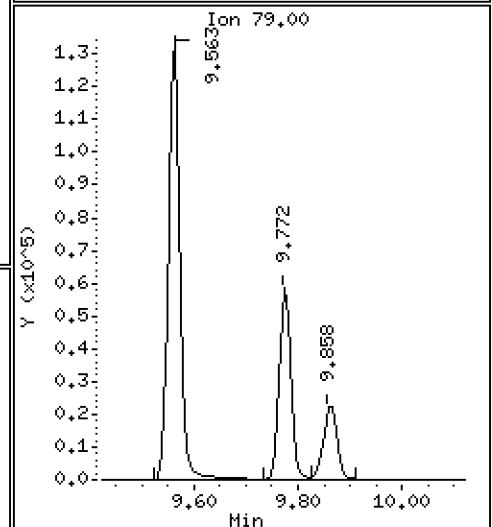
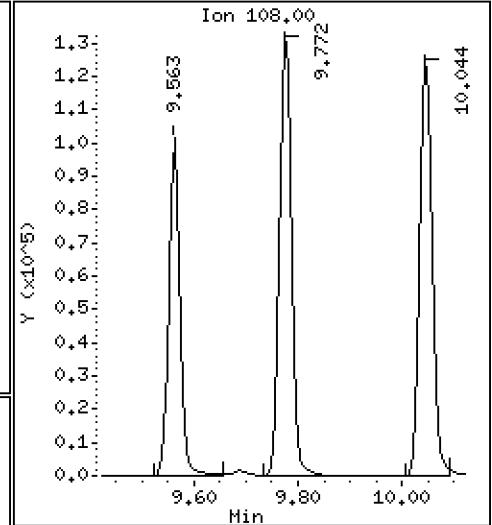
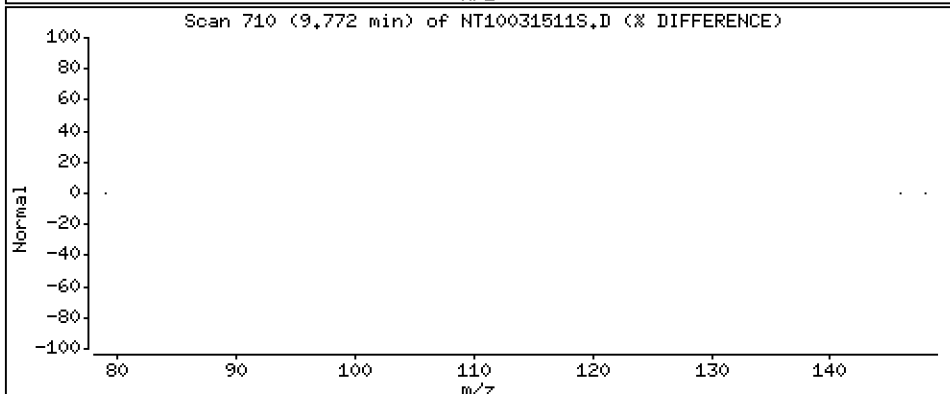
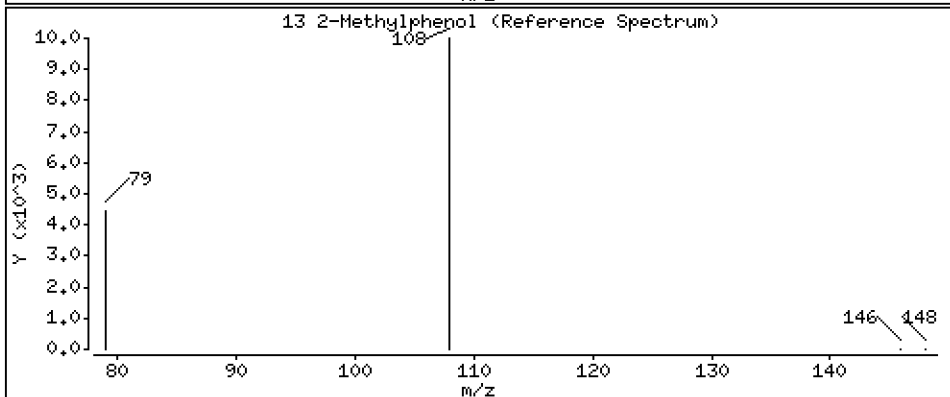
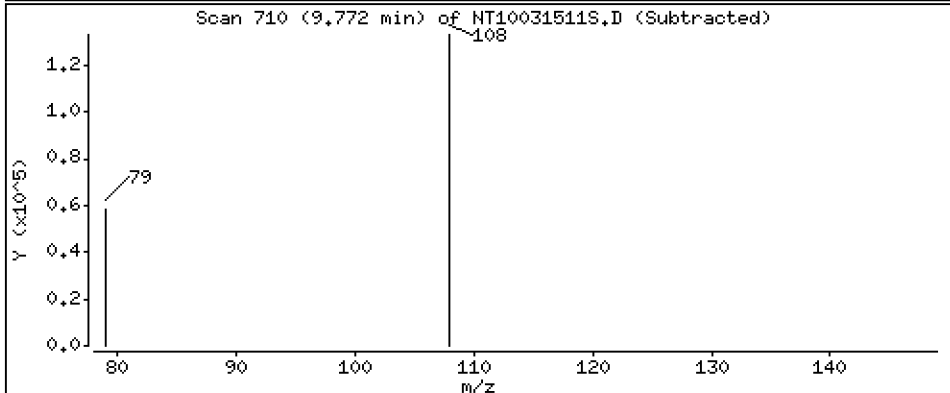
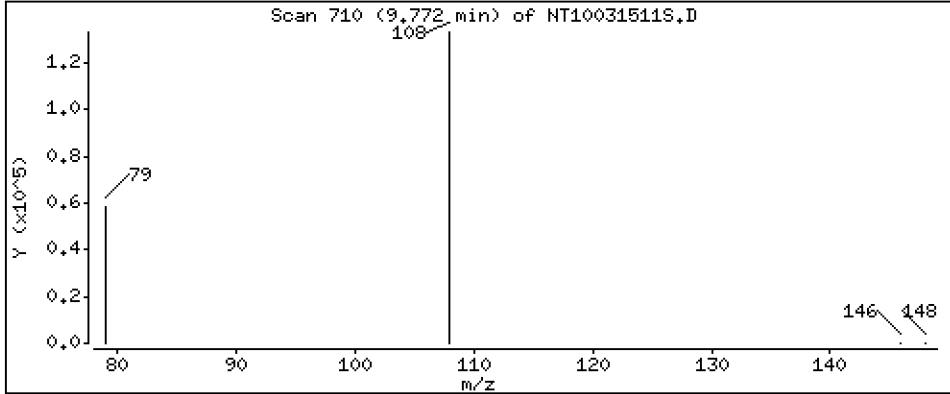
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

13 2-Methylphenol

Concentration: 4.197 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

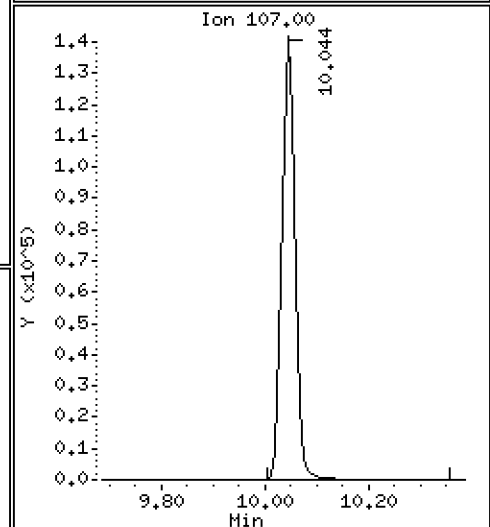
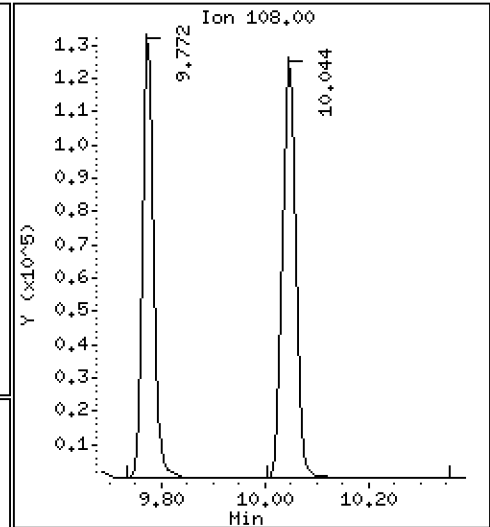
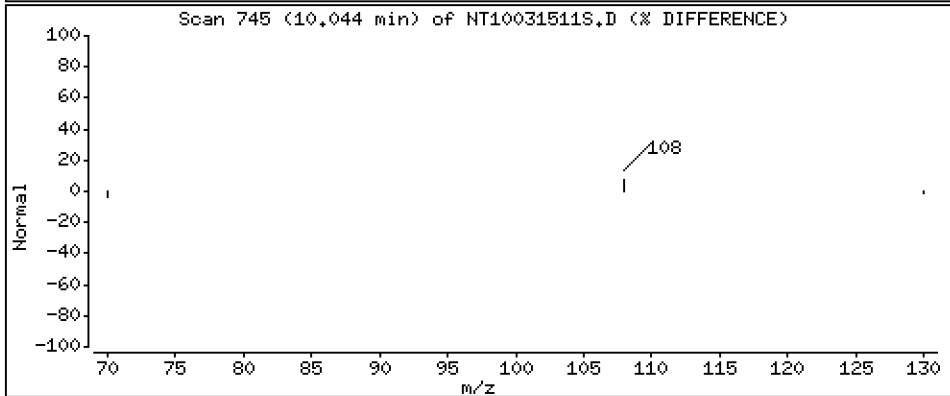
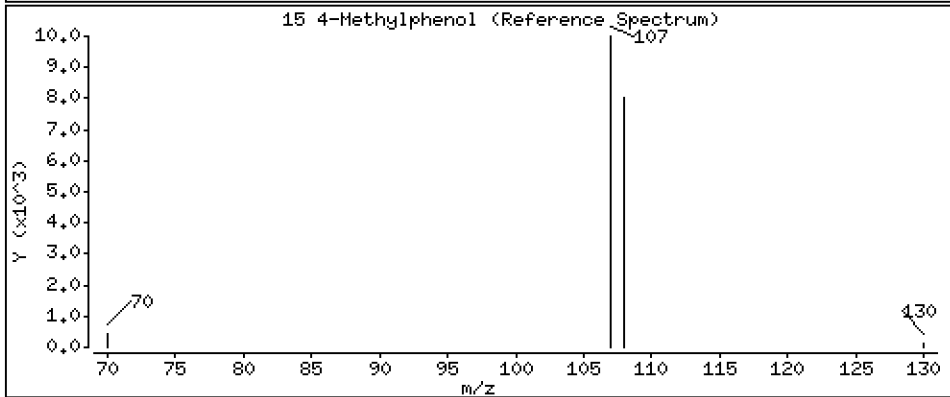
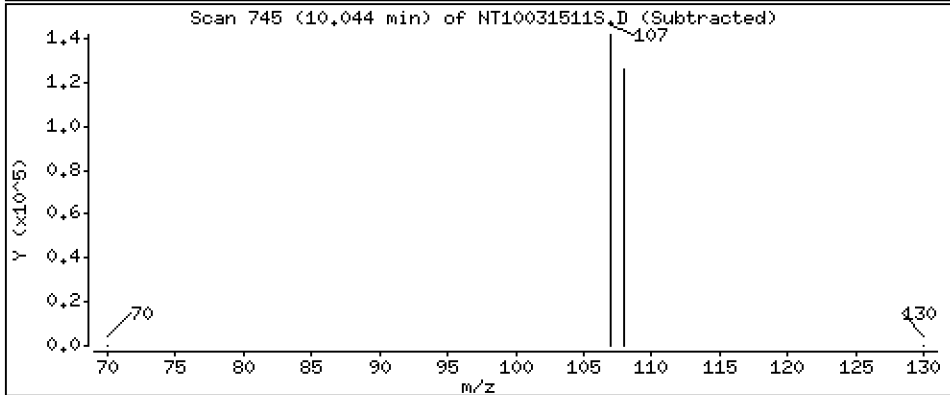
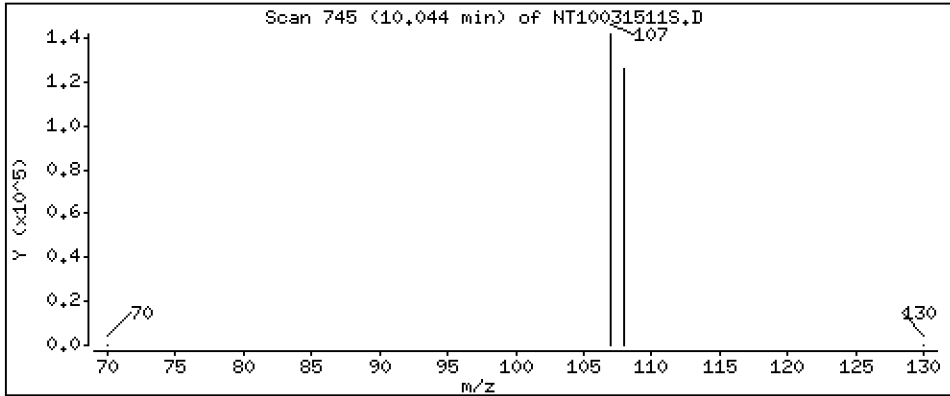
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

15 4-Methylphenol

Concentration: 4,463 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

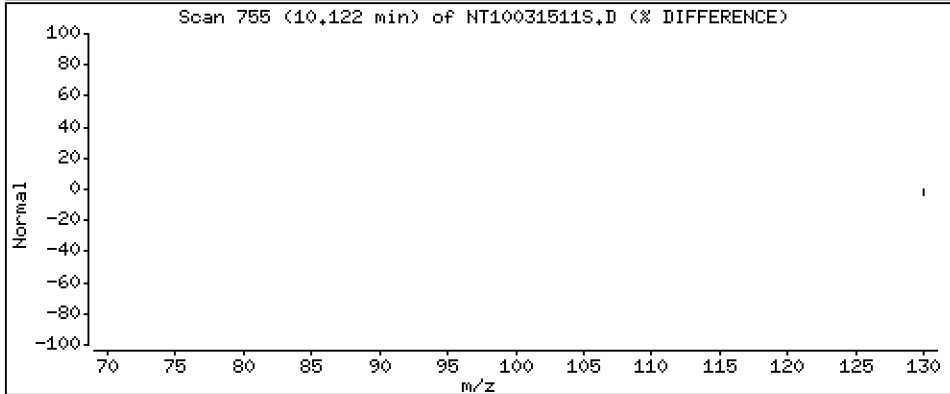
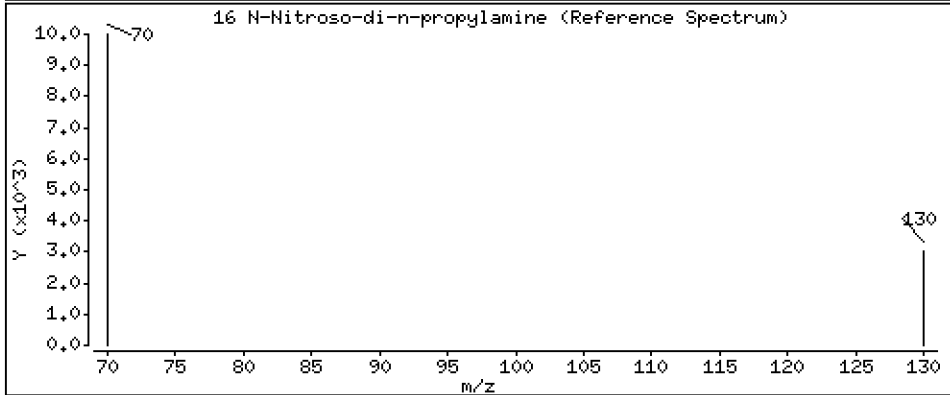
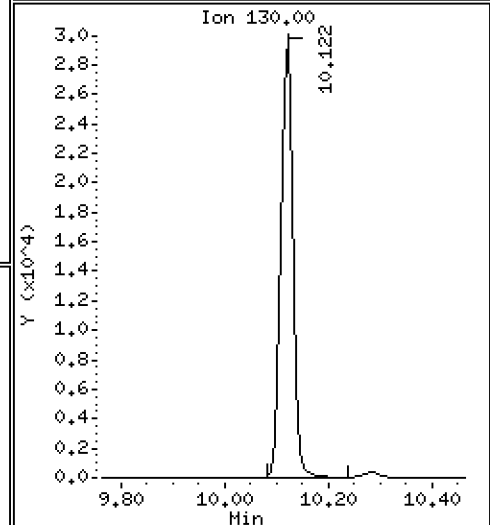
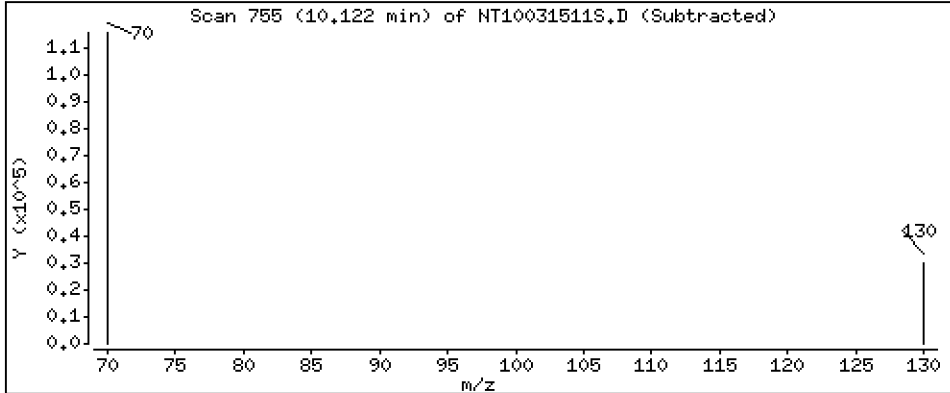
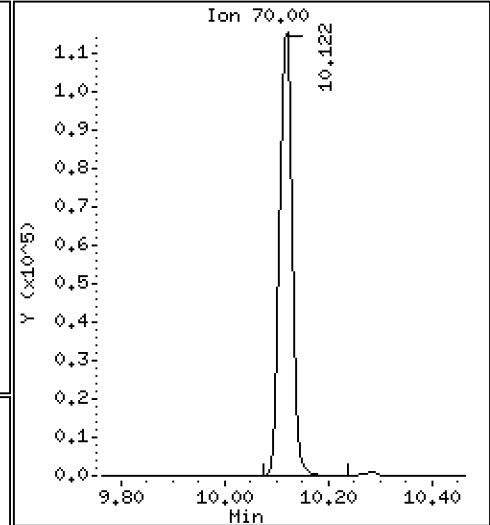
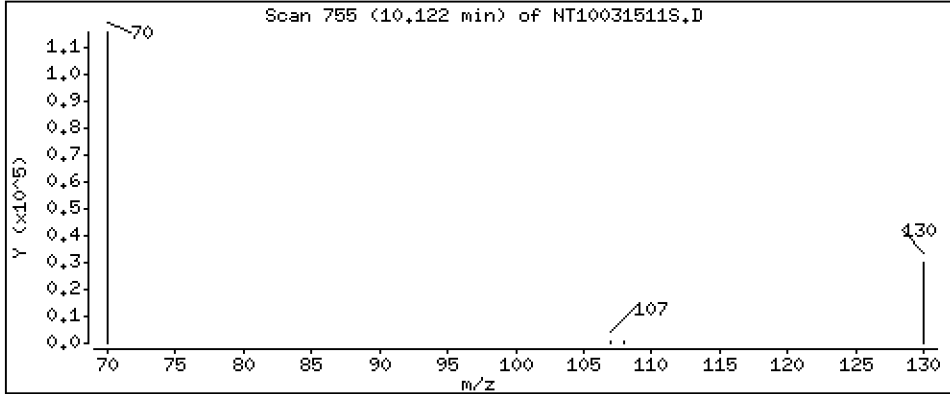
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

16 N-Nitroso-di-n-propylamine

Concentration: 5,282 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

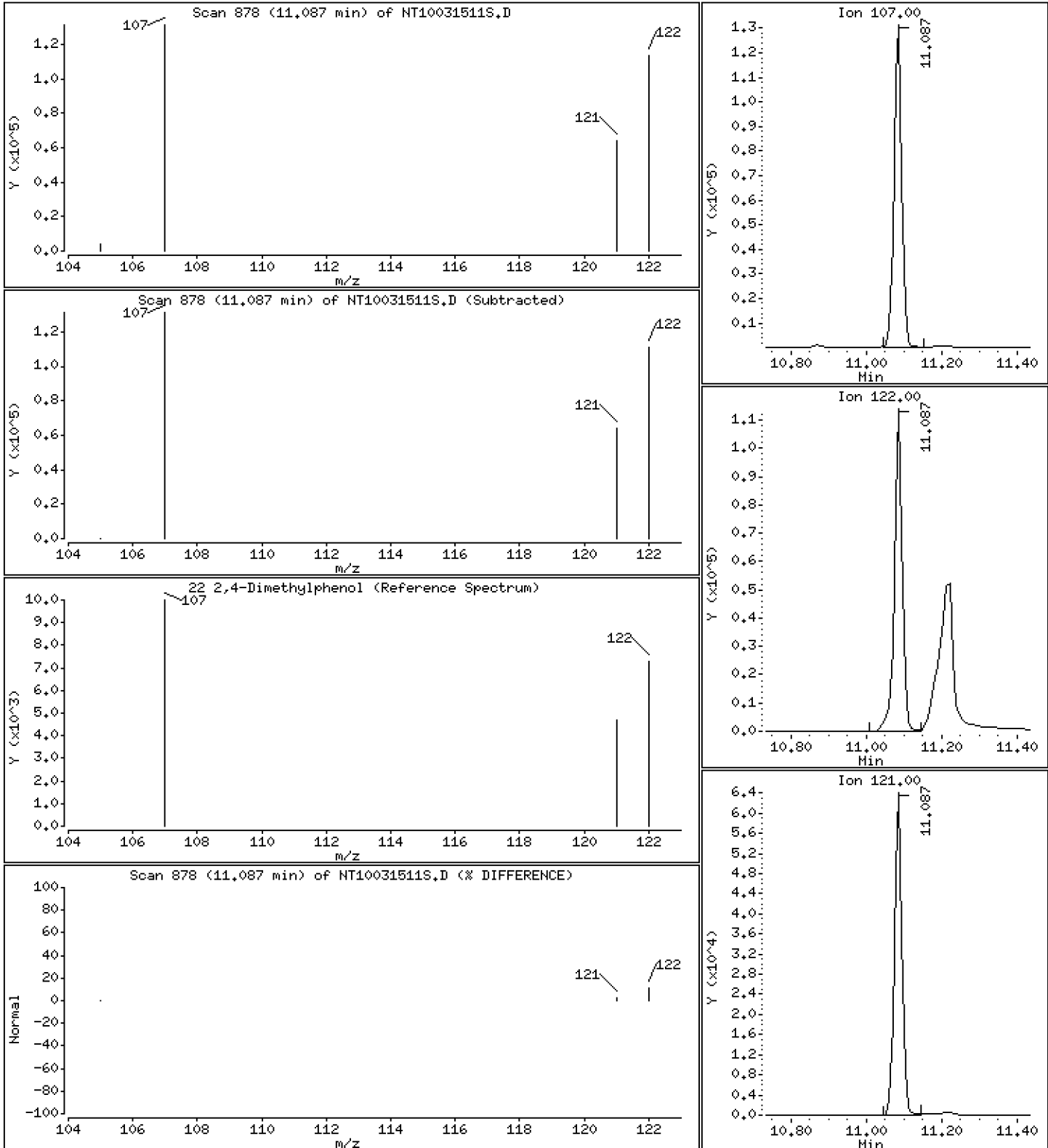
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

22 2,4-Dimethylphenol

Concentration: 3,660 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

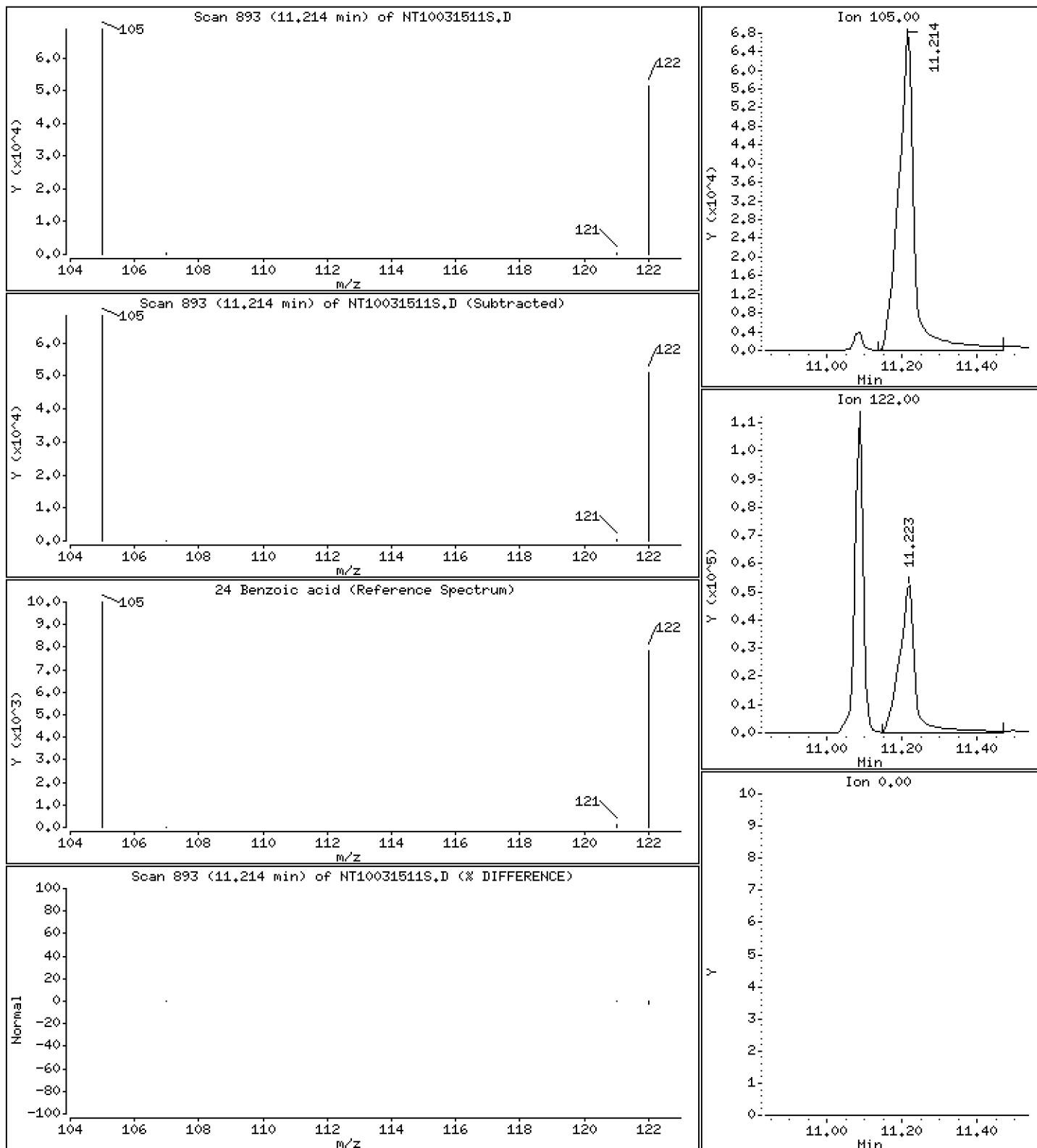
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

24 Benzoic acid

Concentration: 6,746 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

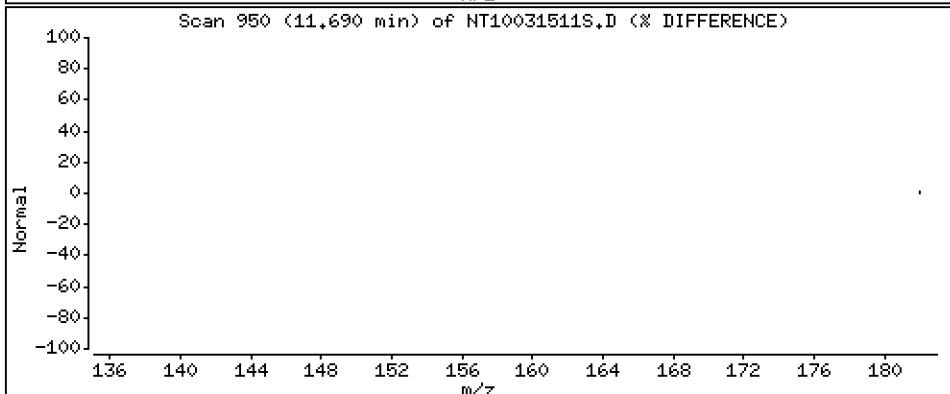
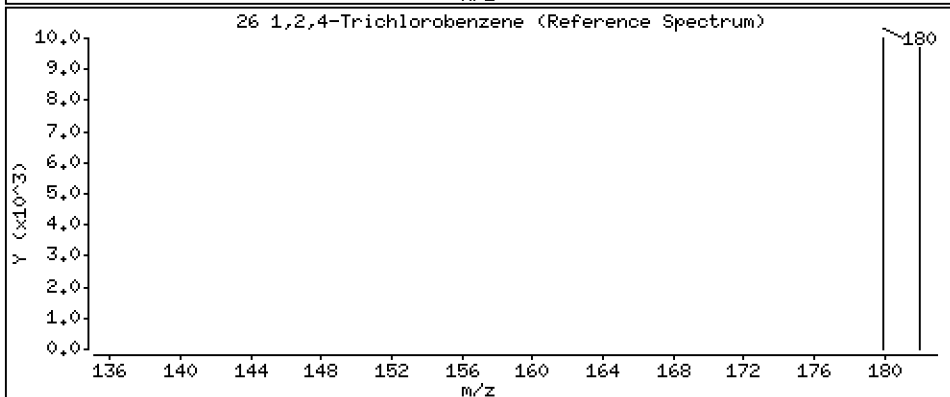
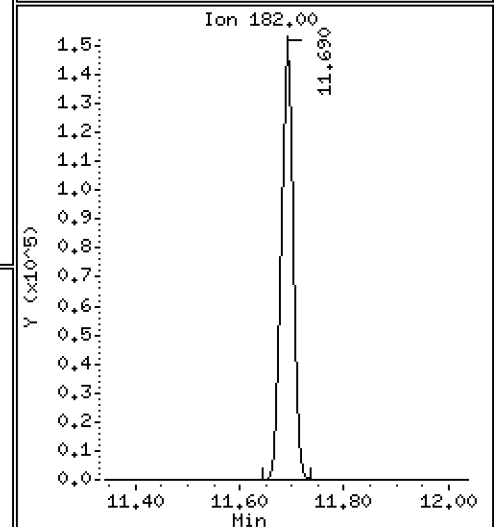
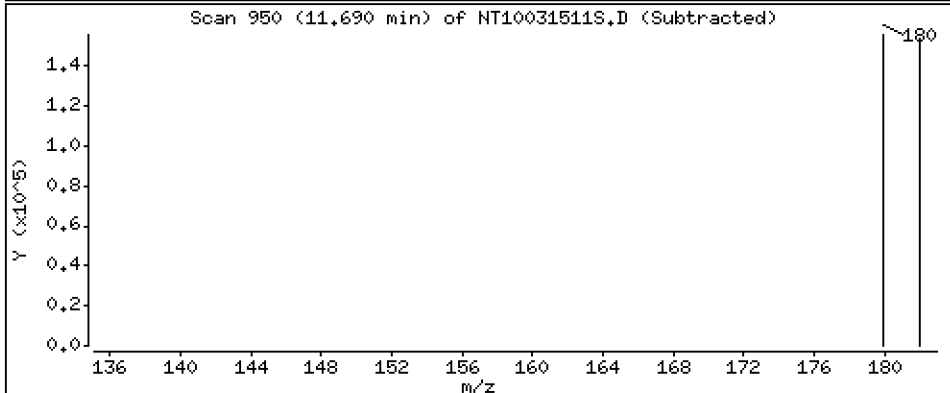
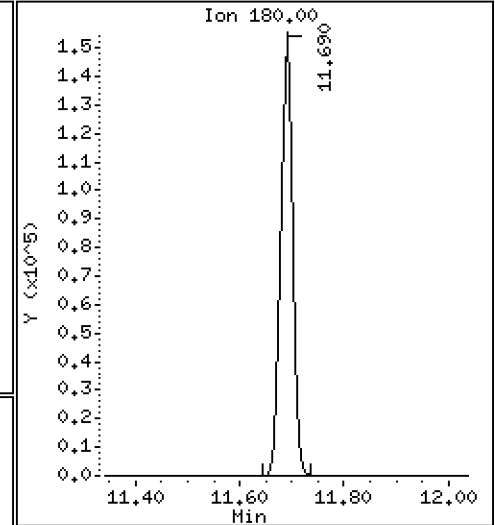
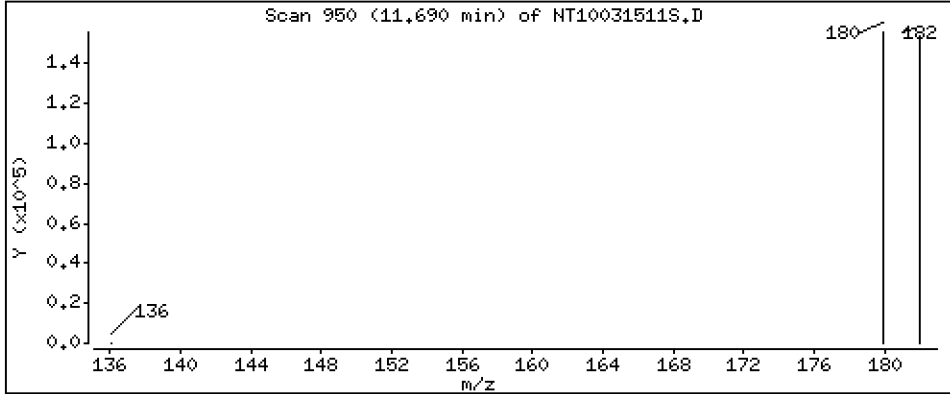
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

26 1,2,4-Trichlorobenzene

Concentration: 4.445 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

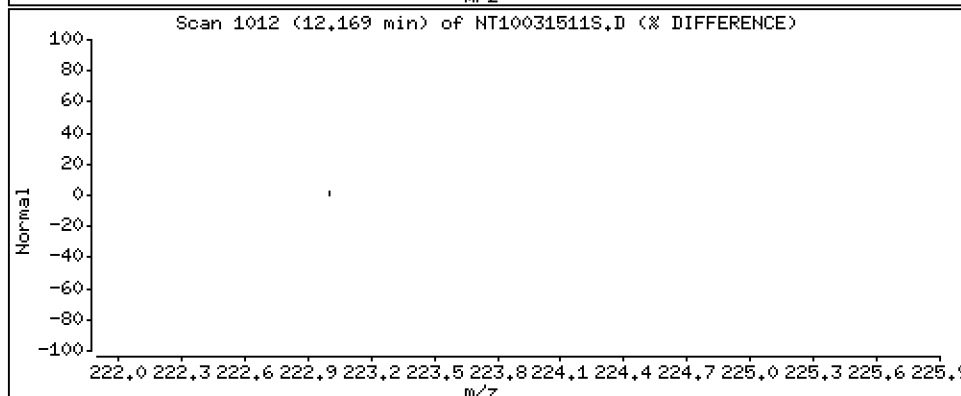
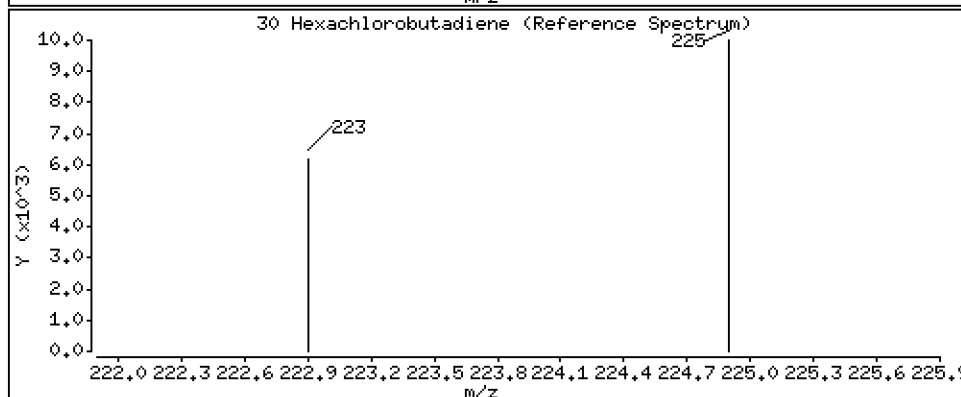
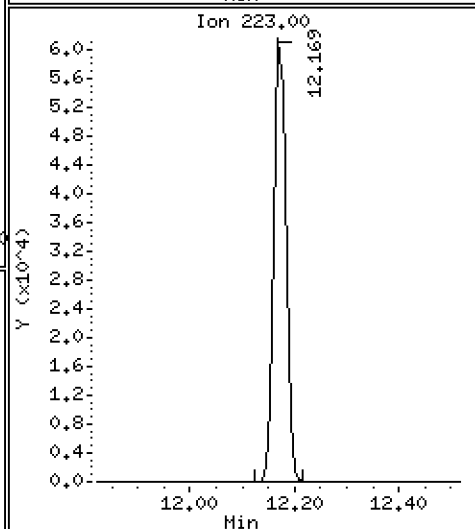
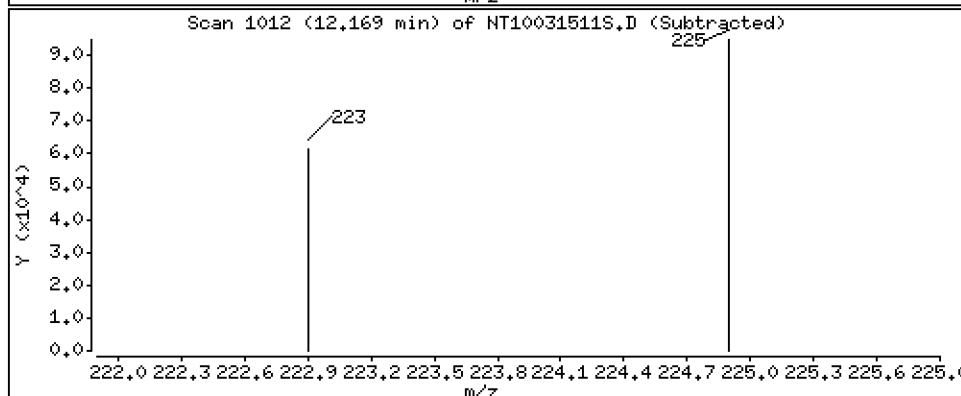
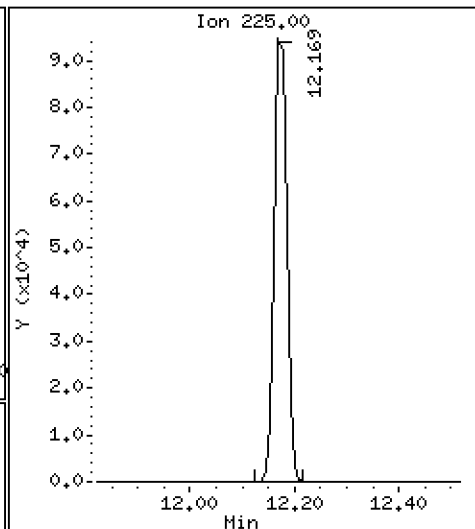
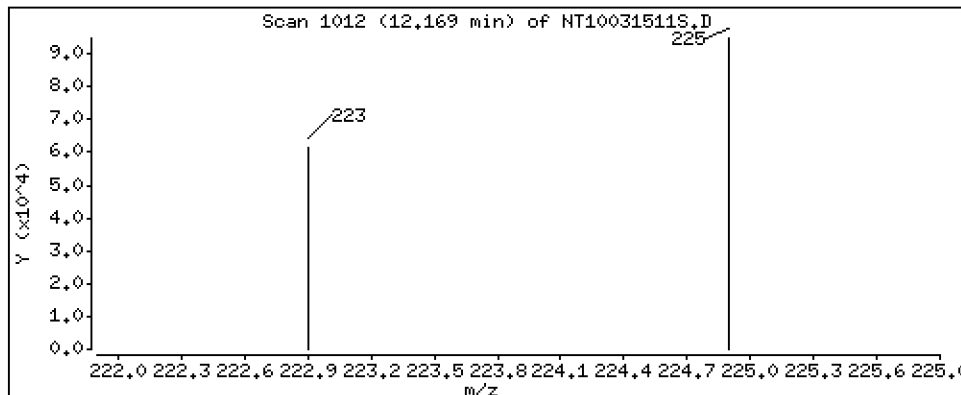
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 4,653 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

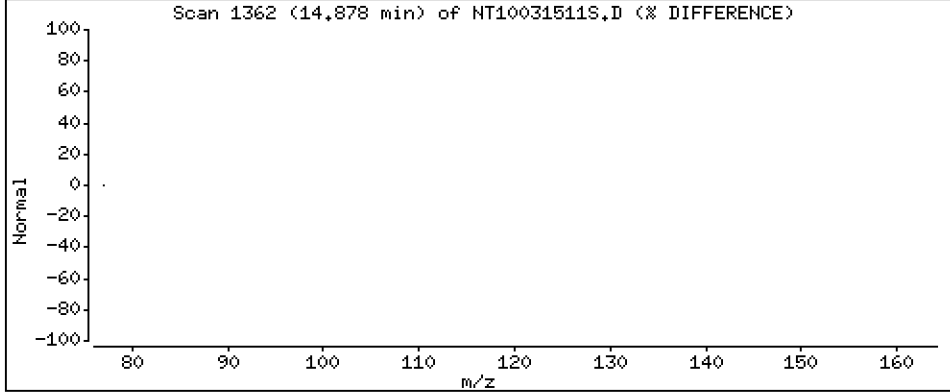
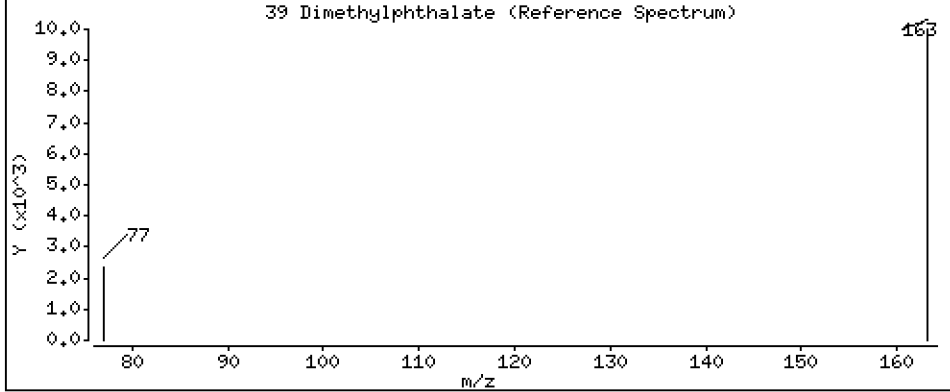
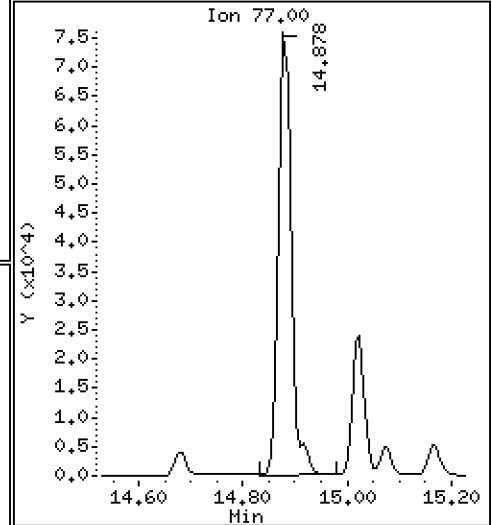
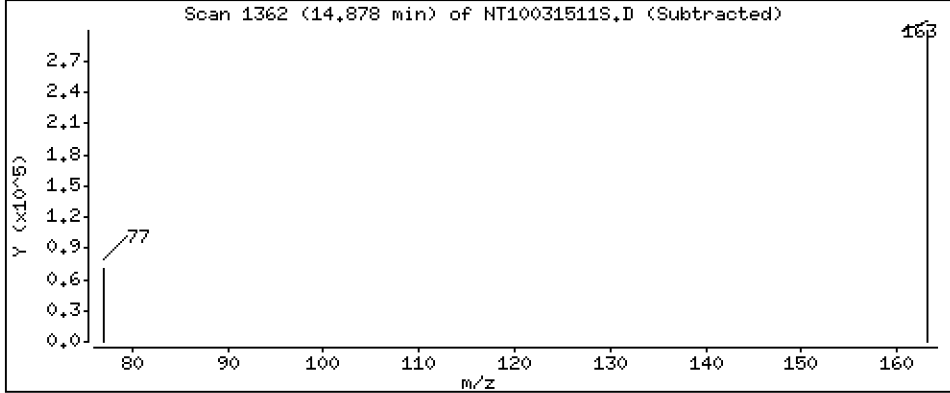
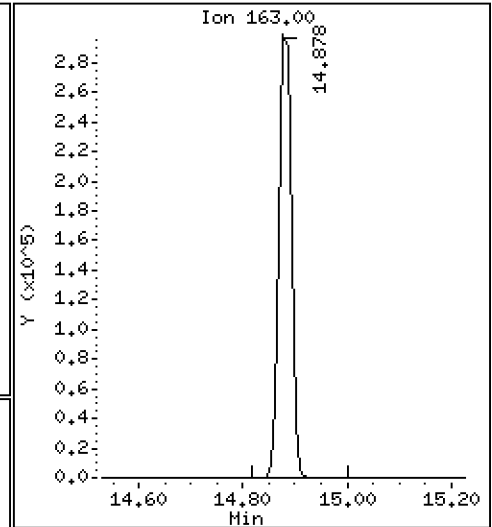
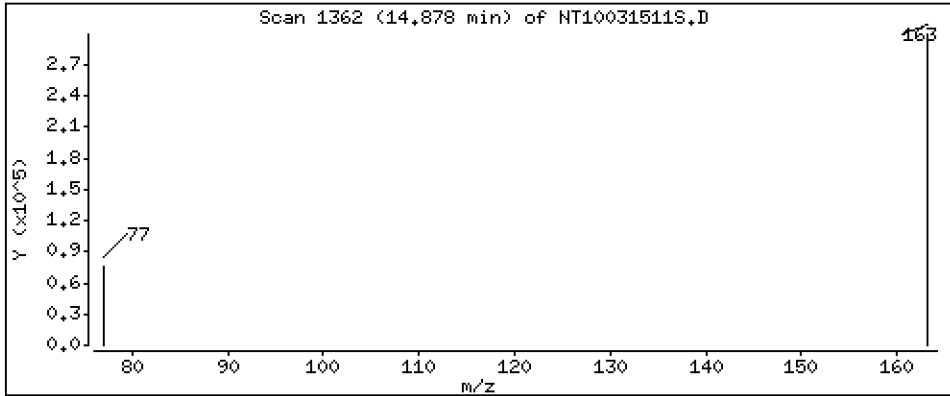
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 4,948 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

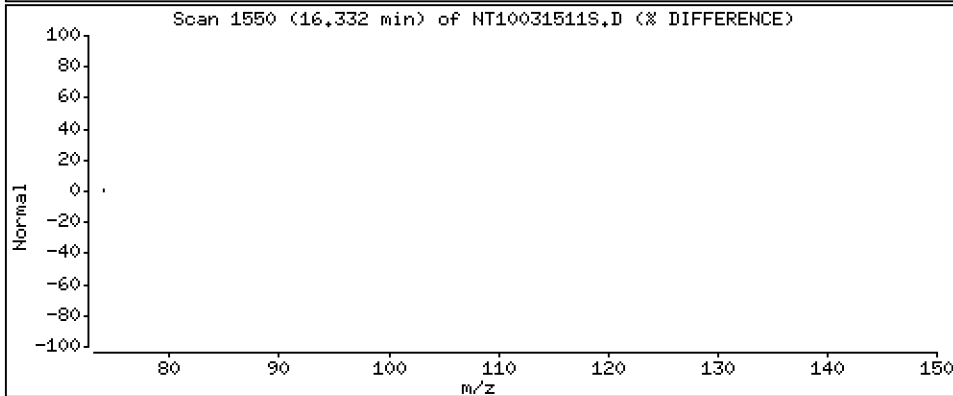
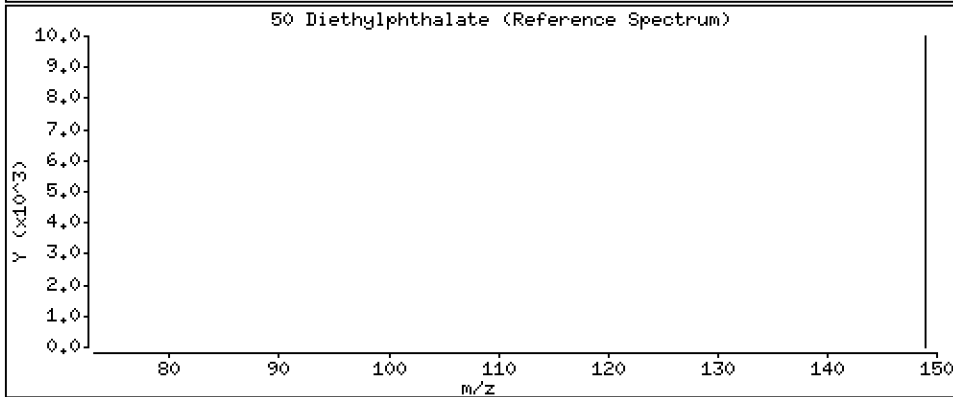
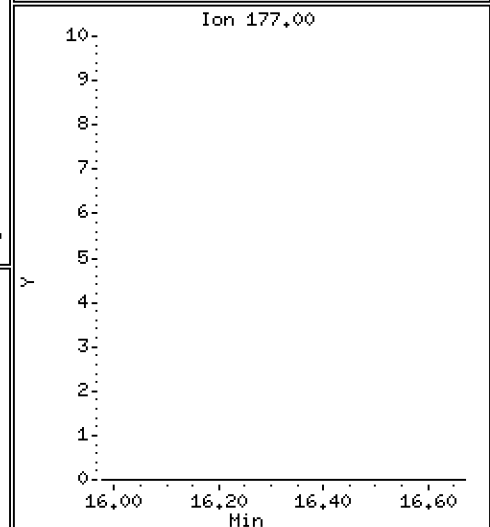
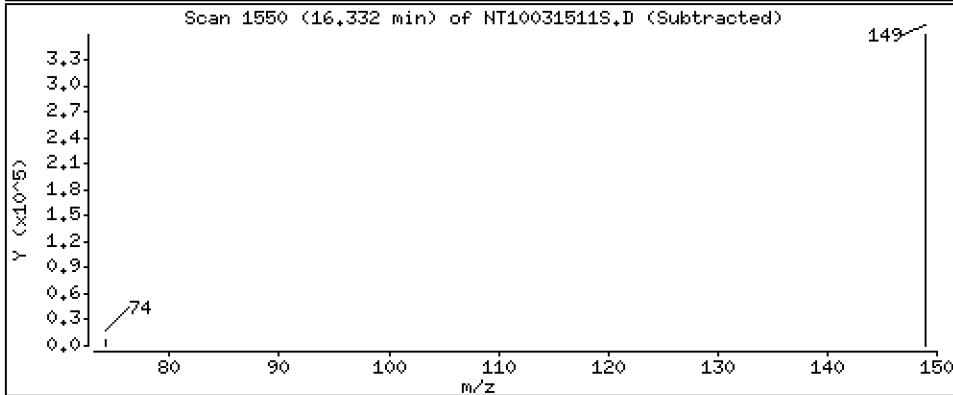
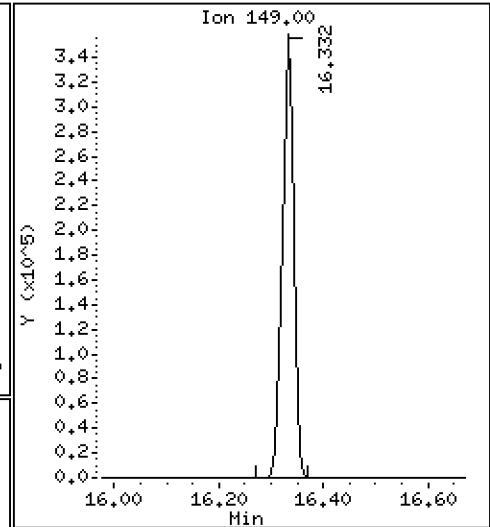
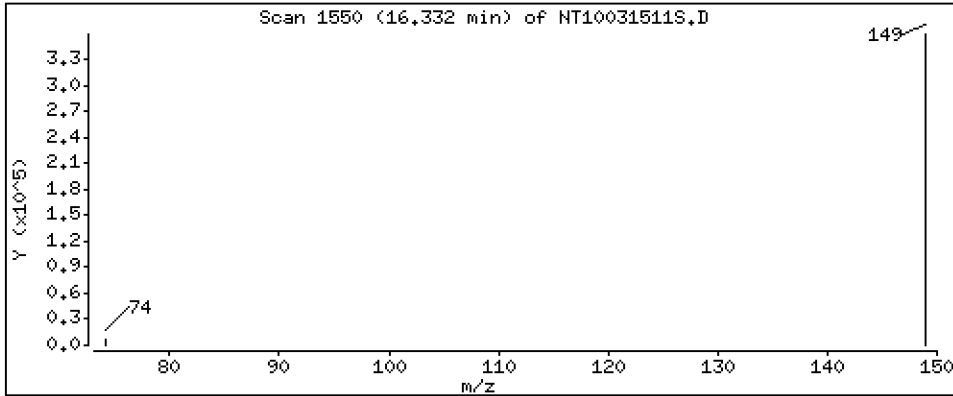
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

50 Diethylphthalate

Concentration: 5.364 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

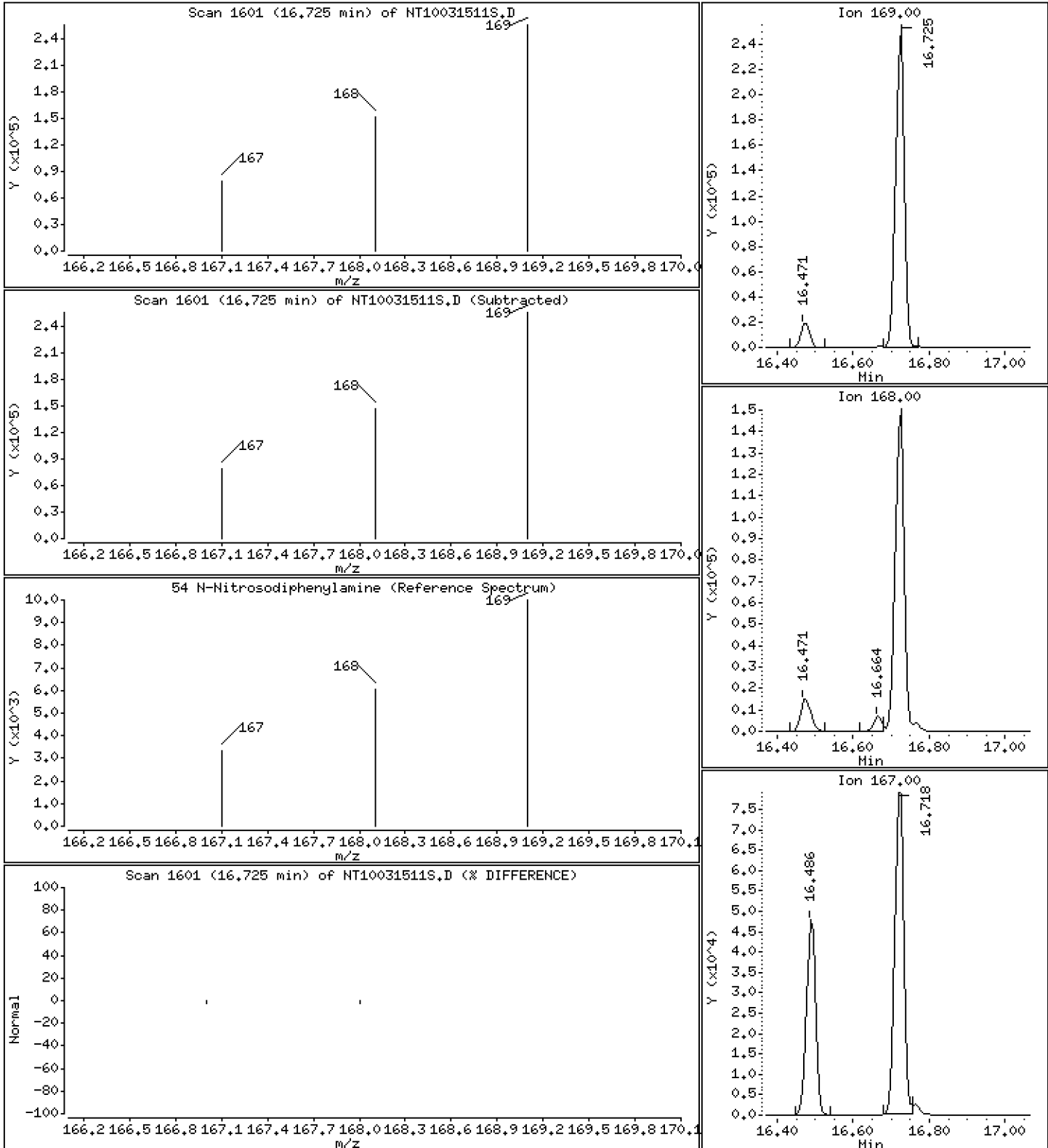
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

54 N-Nitrosodiphenylamine

Concentration: 5.080 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

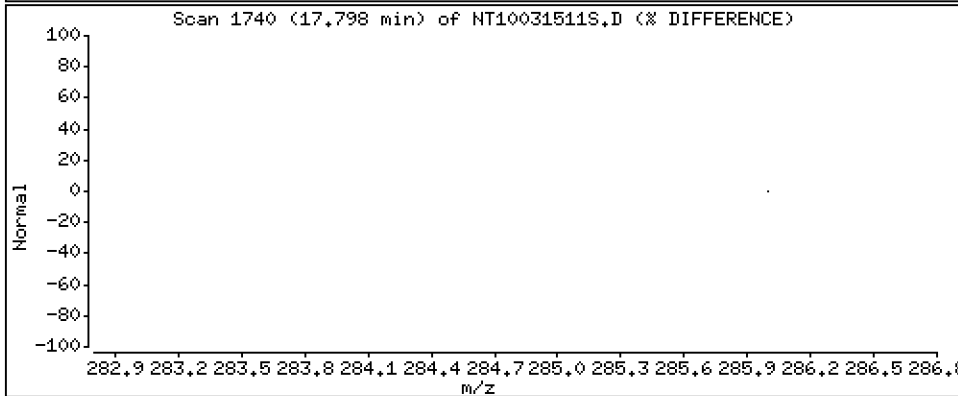
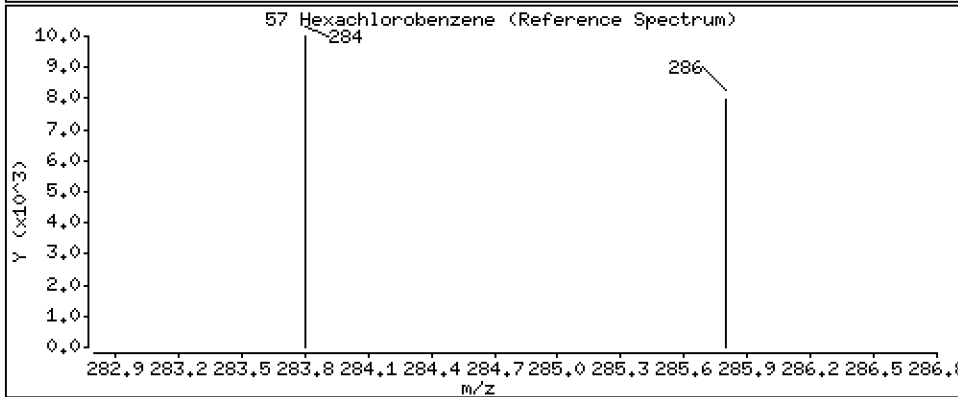
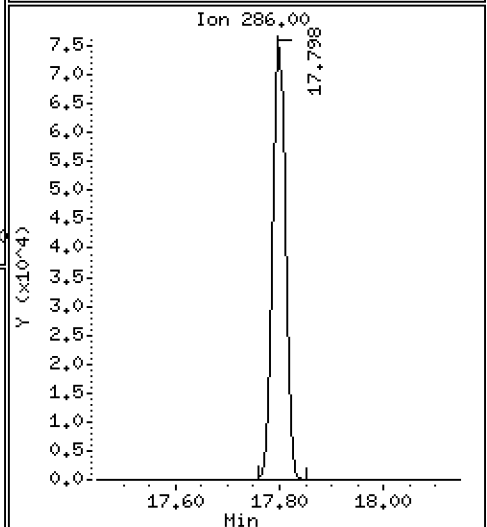
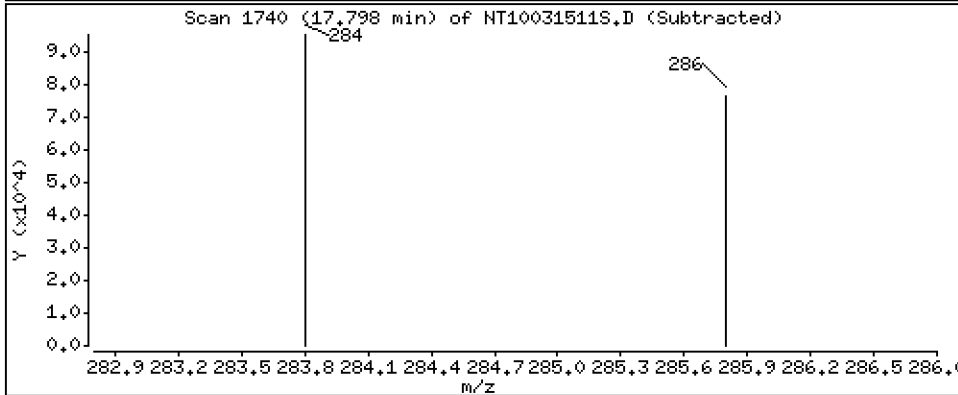
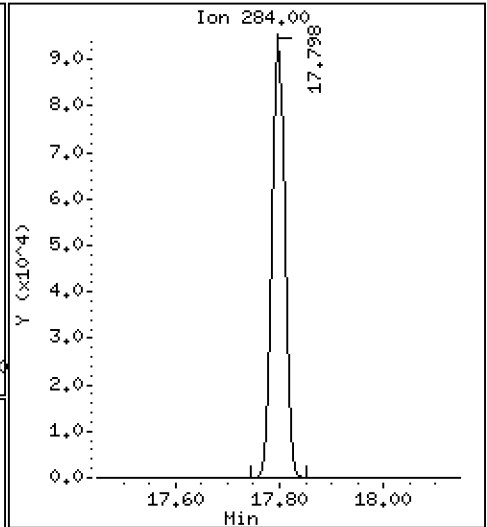
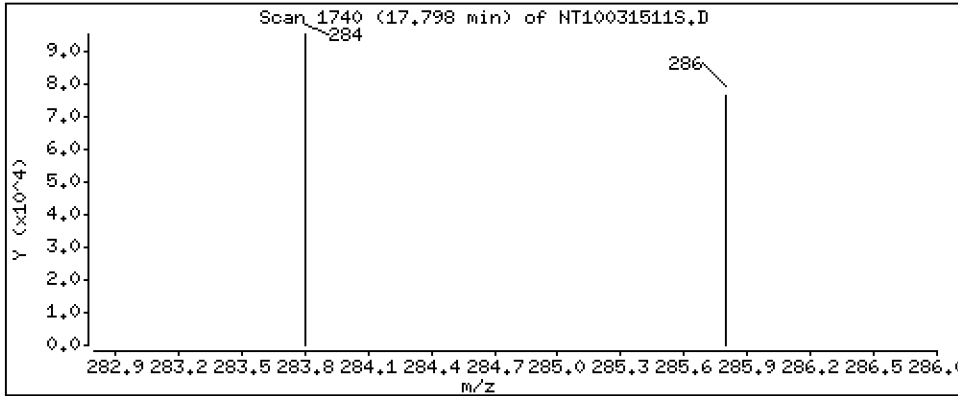
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

57 Hexachlorobenzene

Concentration: 4,614 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

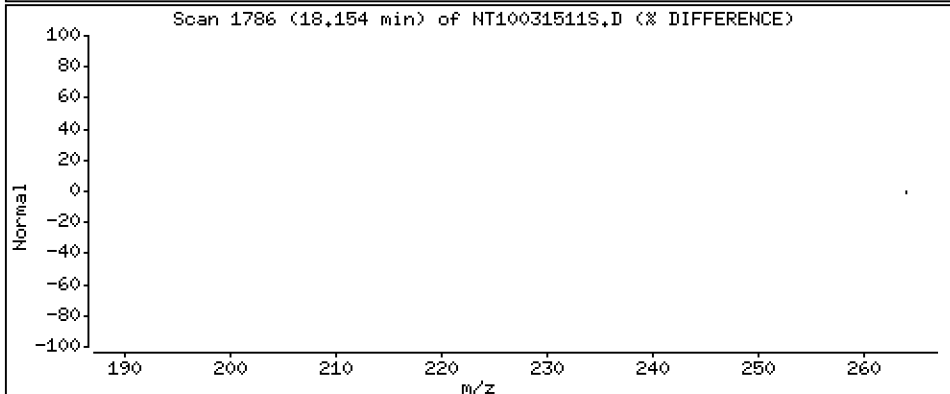
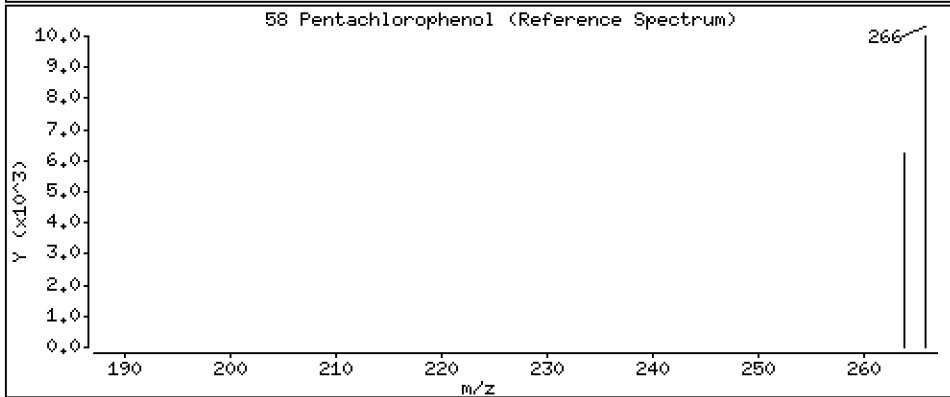
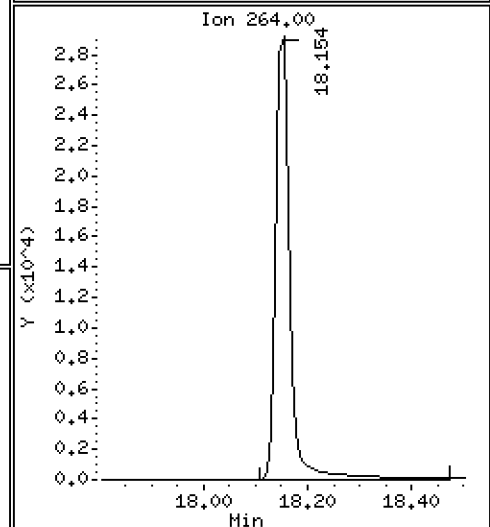
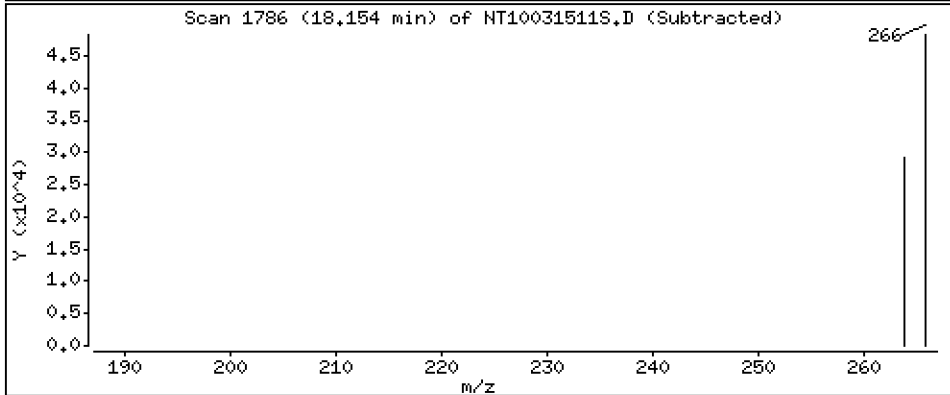
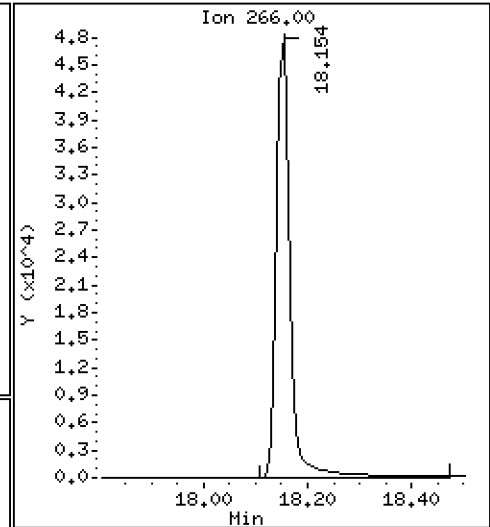
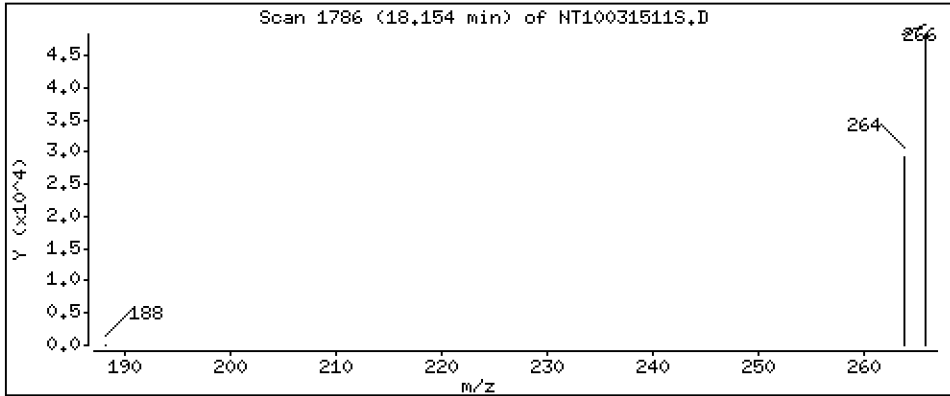
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 4,418 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

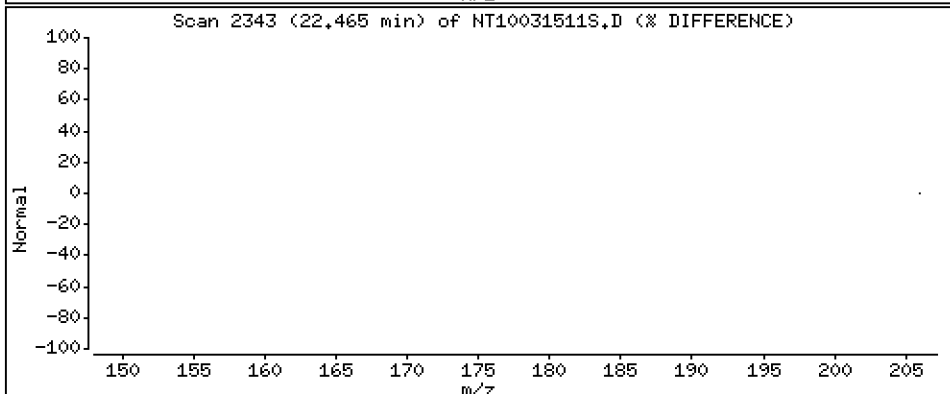
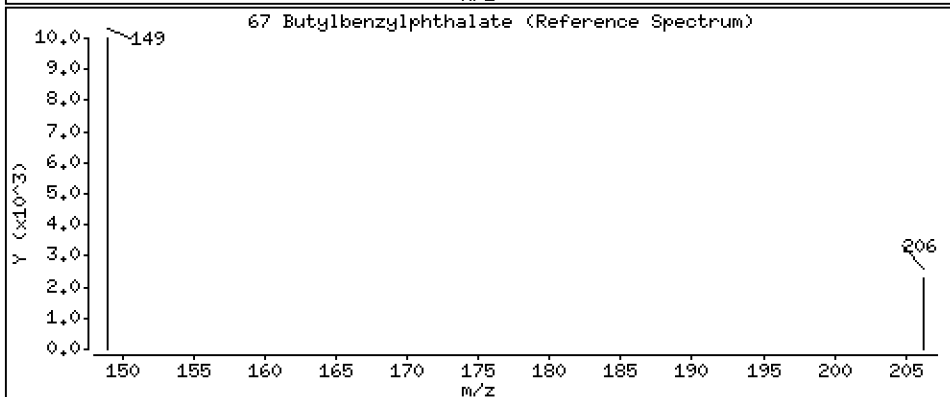
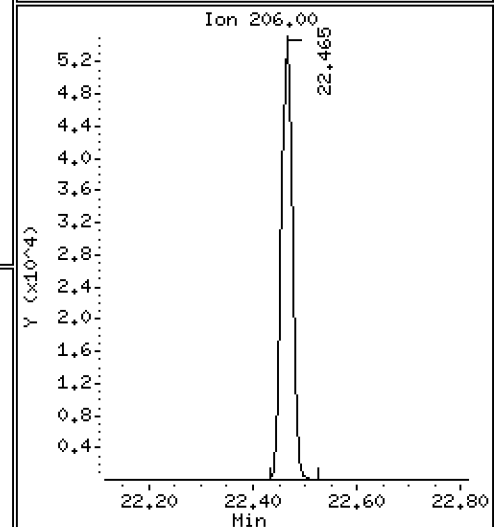
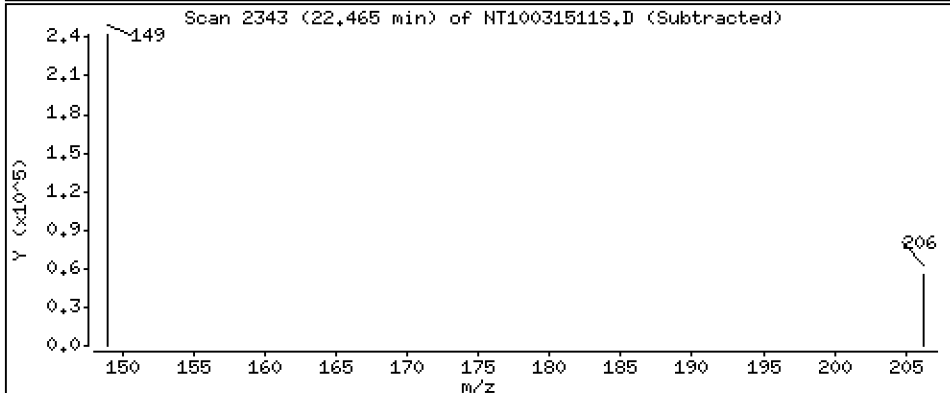
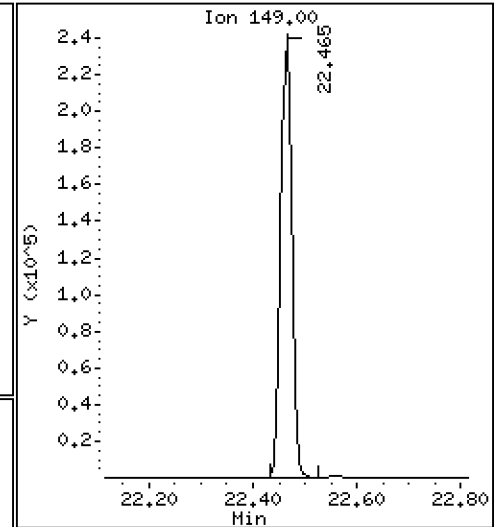
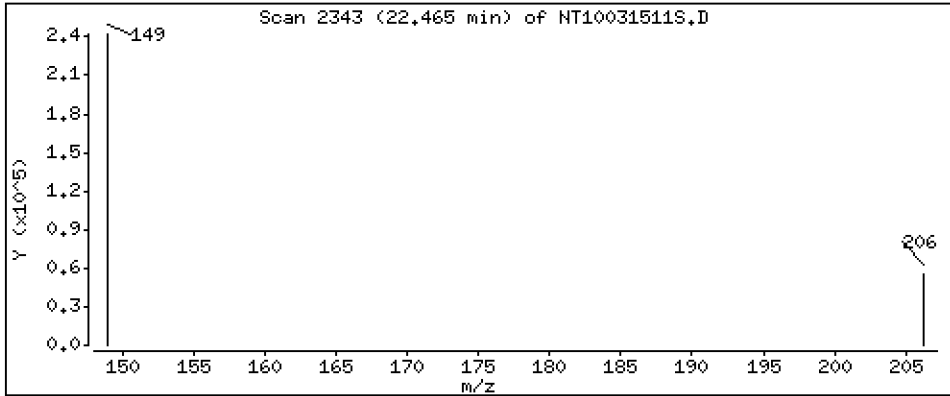
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 5,121 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

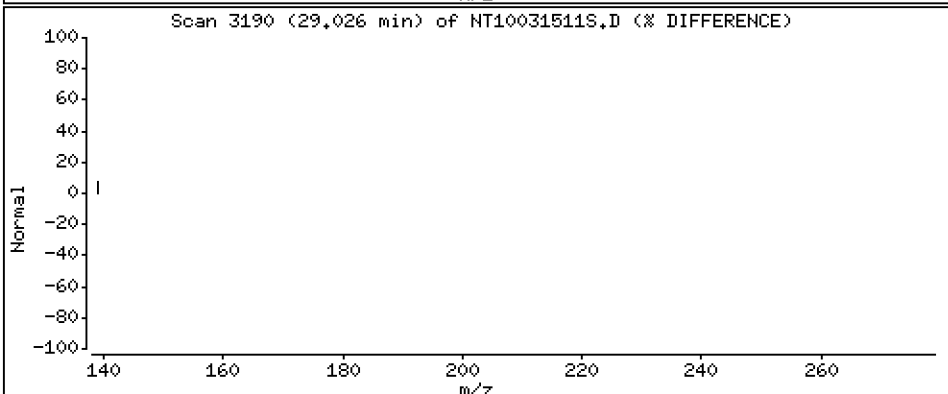
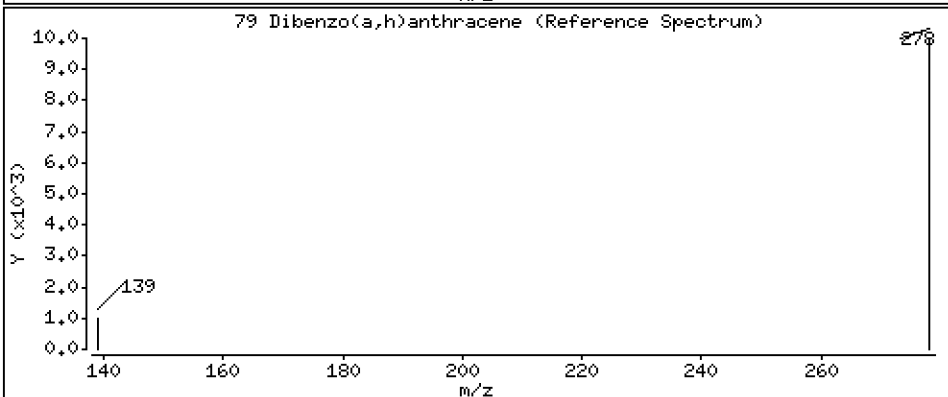
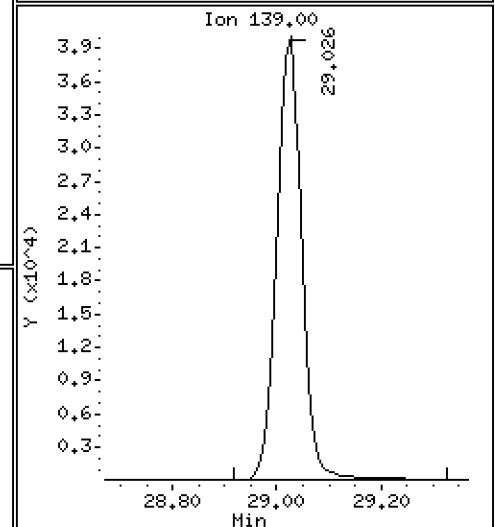
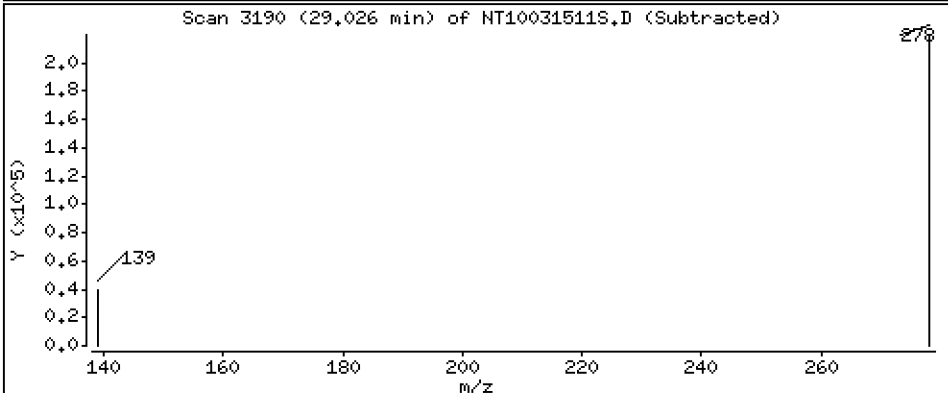
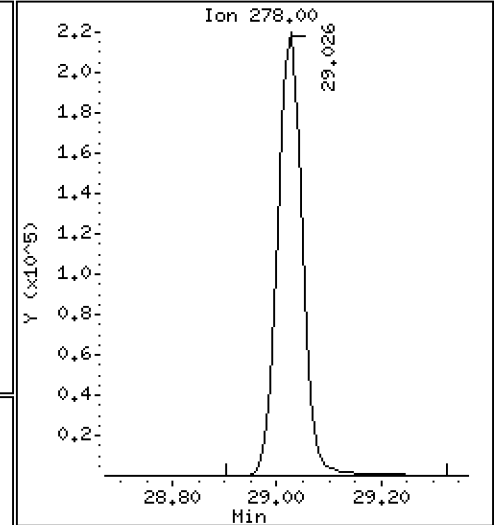
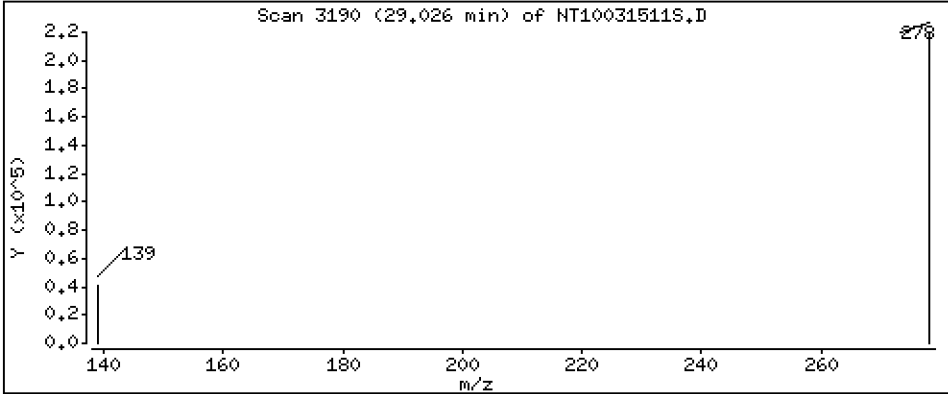
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 4,238 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

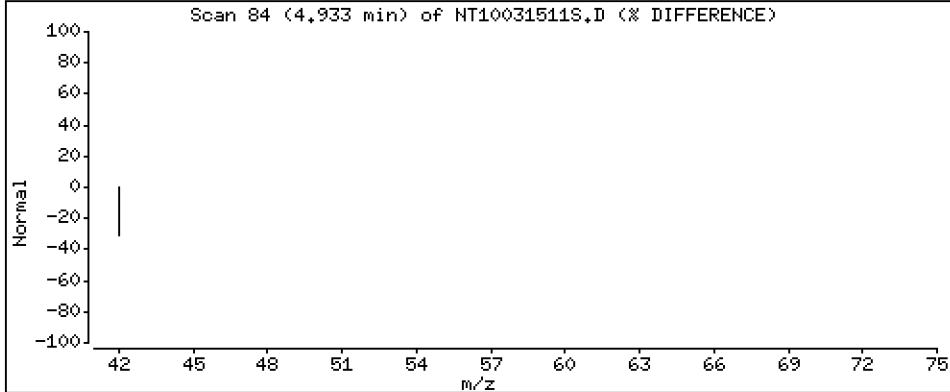
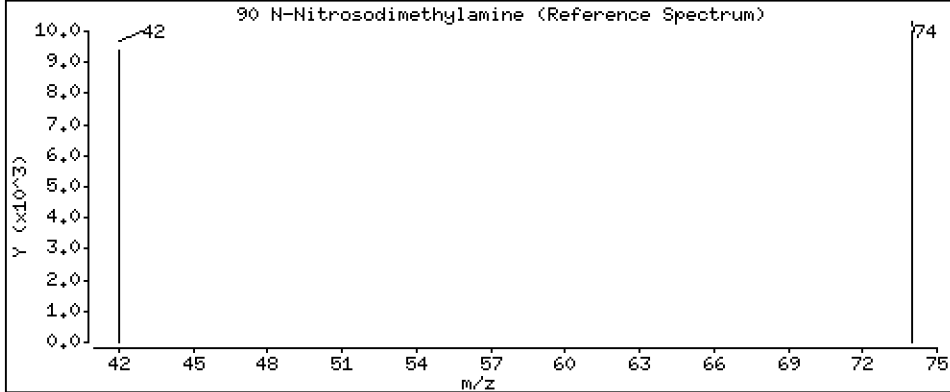
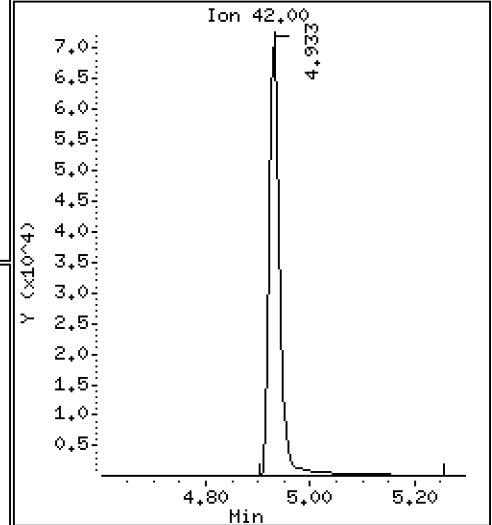
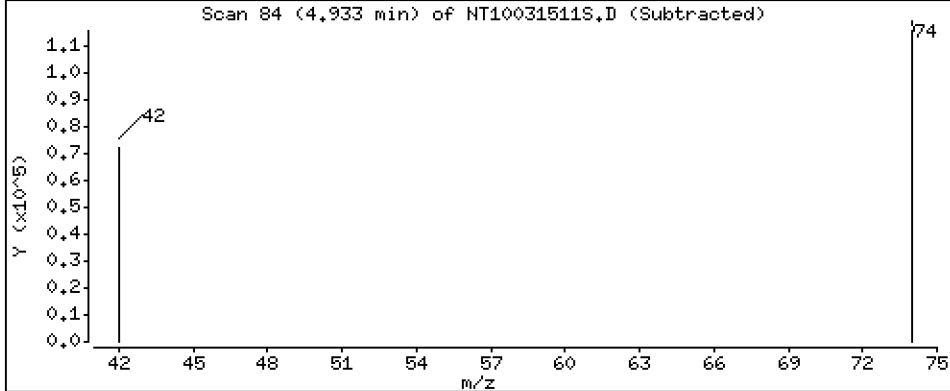
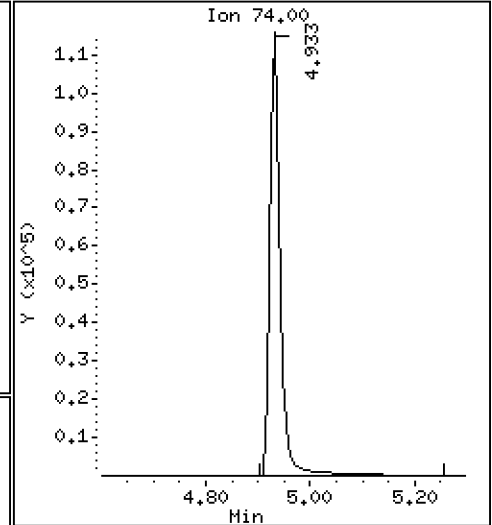
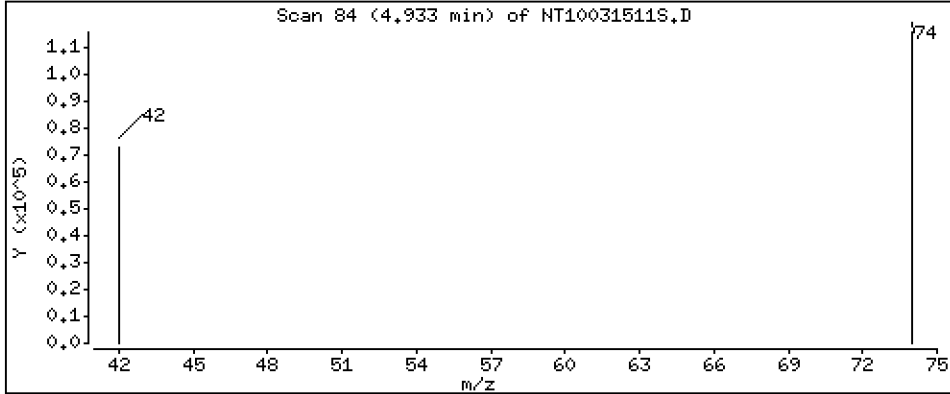
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

90 N-Nitrosodimethylamine

Concentration: 5.096 ug/L



ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D
 Lab Smp Id: SLC0238-SCV1
 Inj Date : 16-MAR-2023 02:16 MS Autotune Date: 16-JAN-2023 17:42
 Operator : JGR Inst ID: nt10.i
 Smp Info : SLC0238-SCV1
 Misc Info :
 Comment :
 Method : \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
 Meth Date : 16-Mar-2023 14:39 van Quant Type: ISTD
 Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D
 Als bottle: 11
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: PSDDA.sub
 Target Version: 4.14
 Processing Host: VANS-201906

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

| Name | Value | Description |
|---------------|----------|---------------------------------|
| DF | 1.000 | Dilution Factor |
| Vo | 1000.000 | Volume of sample extracted (mL) |
| Vt | 1000.000 | Volume of final extract (uL) |
| Vi | 1.000 | Volume injected (uL) |
| Uf | 1.000 | ng unit correction factor |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT | SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|-------------------------------|-------|-----|------------------------|--------|---------|----------|----------------|---------|
| | | | | | | | ON-COLUMN | FINAL |
| | MASS | | | | | | (ug/mL) | (ug/L) |
| \$ 1 2-Fluorophenol | 112 | | Compound Not Detected. | | | | | |
| 3 Phenol | 94 | | 8.664 | 8.664 | (0.931) | 303581 | 4.37299 | 4.373 |
| 7 1,3-Dichlorobenzene | 146 | | 9.236 | 9.236 | (0.992) | 301605 | 4.64290 | 4.643 |
| * 8 1,4-Dichlorobenzene-d4 | 152 | | 9.306 | 9.298 | (1.000) | 166866 | 4.00000 | |
| 9 1,4-Dichlorobenzene | 146 | | 9.329 | 9.329 | (1.002) | 303390 | 4.83813 | 4.838 |
| 11 Benzyl alcohol | 79 | | 9.562 | 9.570 | (1.028) | 208505 | 5.18071 | 5.181 |
| 12 1,2-Dichlorobenzene | 146 | | 9.686 | 9.686 | (1.041) | 288539 | 4.67875 | 4.679 |
| 13 2-Methylphenol | 108 | | 9.772 | 9.772 | (1.050) | 201888 | 4.19698 | 4.197 |
| 15 4-Methylphenol | 108 | | 10.043 | 10.036 | (1.079) | 223083 | 4.46301 | 4.463 |
| 16 N-Nitroso-di-n-propylamine | 70 | | 10.121 | 10.113 | (1.088) | 186707 | 5.28174 | 5.282 |
| 22 2,4-Dimethylphenol | 107 | | 11.086 | 11.087 | (0.942) | 193654 | 3.66015 | 3.660 |
| 24 Benzoic acid | 105 | | 11.214 | 11.189 | (0.952) | 200487 | 6.74612 | 6.746 |
| 26 1,2,4-Trichlorobenzene | 180 | | 11.690 | 11.690 | (0.993) | 236605 | 4.44540 | 4.445 |
| * 27 Naphthalene-d8 | 136 | | 11.775 | 11.775 | (1.000) | 612104 | 4.00000 | |
| 30 Hexachlorobutadiene | 225 | | 12.169 | 12.169 | (1.033) | 150581 | 4.65339 | 4.653 |
| 39 Dimethylphthalate | 163 | | 14.877 | 14.877 | (0.967) | 472341 | 4.94766 | 4.948 |
| * 42 Acenaphthene-d10 | 162 | | 15.388 | 15.380 | (1.000) | 302524 | 4.00000 | |
| 50 Diethylphthalate | 149 | | 16.331 | 16.324 | (1.061) | 530540 | 5.36440 | 5.364 |
| 54 N-Nitrosodiphenylamine | 169 | | 16.725 | 16.717 | (0.908) | 377357 | 5.08034 | 5.080 |
| 57 Hexachlorobenzene | 284 | | 17.798 | 17.798 | (0.966) | 153405 | 4.61353 | 4.614 |

| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|---------------------------|-----------|--------|--------|---------|----------|----------------------|------------------|
| | | | | | | ON-COLUMN (ug/mL) | FINAL (ug/L) |
| 58 Pentachlorophenol | 266 | 18.154 | 18.154 | (0.985) | 83223 | 4.41780 | 4.418 |
| * 59 Phenanthrene-d10 | 188 | 18.425 | 18.417 | (1.000) | 553619 | 4.00000 | |
| \$ 66 Terphenyl-d14 | 244 | 21.543 | 21.543 | (0.918) | 117 | 0.00154 | 0.001543 (RM) |
| 67 Butylbenzylphthalate | 149 | 22.464 | 22.465 | (0.958) | 332887 | 5.12147 | 5.121 |
| * 69 Chrysene-d12 | 240 | 23.455 | 23.455 | (1.000) | 465428 | 4.00000 | |
| * 77 Perylene-d12 | 264 | 26.188 | 26.188 | (1.000) | 532593 | 4.00000 | |
| 79 Dibenzo(a,h)anthracene | 278 | 29.026 | 29.019 | (1.108) | 722983 | 4.23762 | 4.238 |
| 90 N-Nitrosodimethylamine | 74 | 4.933 | 4.948 | (0.530) | 163555 | 5.09625 | 5.096 |

QC Flag Legend

- R - Spike/Surrogate failed recovery limits.
- M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i
 Lab File ID: NT10031511S.D
 Lab Smp Id: SLC0238-SCV1
 Analysis Type: SV
 Quant Type: ISTD
 Operator: JGR
 Method File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
 Misc Info:

Calibration Date: 15-MAR-2023
 Calibration Time: 23:06
 Level: LOW
 Sample Type: AIR

Test Mode:
 Use Last Continuing Calibrator.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|------------|---------|--------|--------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 188081 | 94041 | 376162 | 166866 | -11.28 |
| 27 Naphthalene-d8 | 674549 | 337275 | 1349098 | 612104 | -9.26 |
| 42 Acenaphthene-d10 | 328275 | 164138 | 656550 | 302524 | -7.84 |
| 59 Phenanthrene-d10 | 597140 | 298570 | 1194280 | 553619 | -7.29 |
| 69 Chrysene-d12 | 466503 | 233252 | 933006 | 465428 | -0.23 |
| 77 Perylene-d12 | 518203 | 259102 | 1036406 | 532593 | 2.78 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 9.30 | 8.80 | 9.80 | 9.31 | 0.08 |
| 27 Naphthalene-d8 | 11.77 | 11.27 | 12.27 | 11.78 | 0.01 |
| 42 Acenaphthene-d10 | 15.39 | 14.89 | 15.89 | 15.39 | 0.01 |
| 59 Phenanthrene-d10 | 18.42 | 17.92 | 18.92 | 18.43 | 0.00 |
| 69 Chrysene-d12 | 23.45 | 22.95 | 23.95 | 23.46 | 0.00 |
| 77 Perylene-d12 | 26.19 | 25.69 | 26.69 | 26.19 | 0.00 |

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

REVIEW SUMMARY FOR FILE - NT10031511S.D

Lab ID: SLC0238-SCV1

nt10.i, 20230315.b\20230315.b\SIMABN2.m,

16-MAR-2023 02:16

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT | CCV | RRT | DELTA | COMPOUND |
|-------|-------|--------|-------|--------------|
| 0.952 | 0.000 | 0.9524 | | Benzoic acid |

RRT check based on Ccal File: 20230315.b/NT10031510S.D

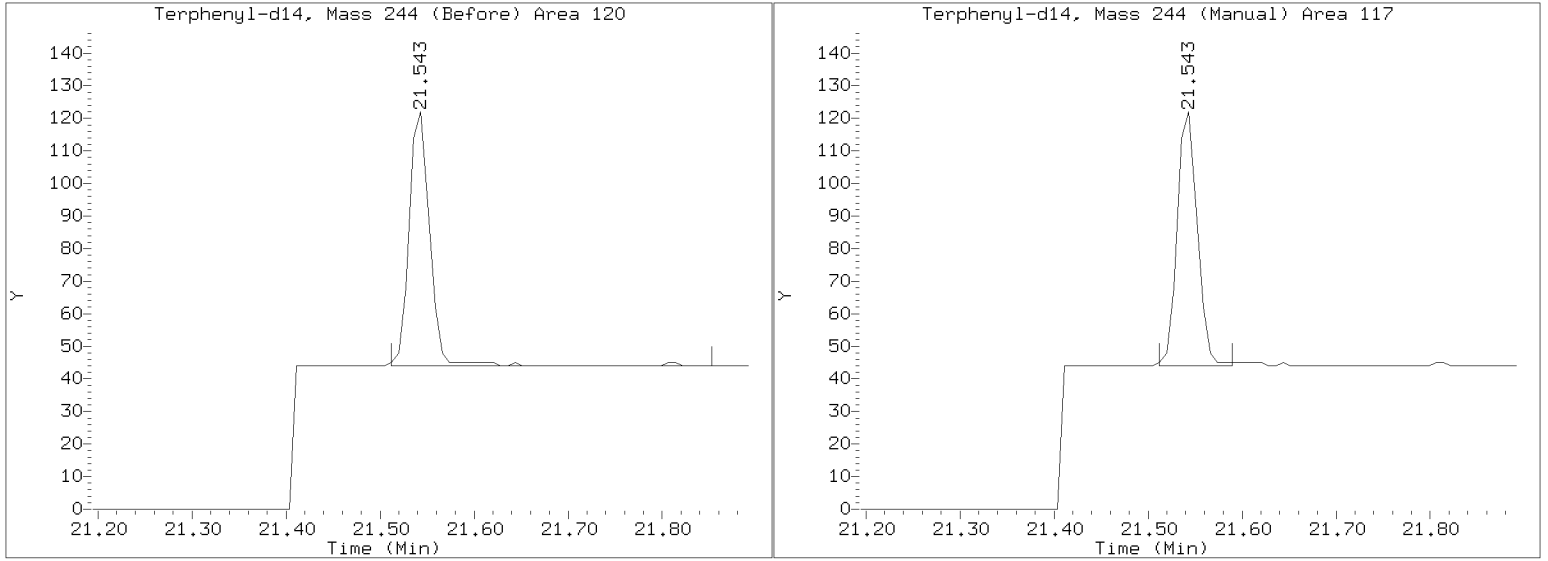
On Column LOD for nt10.i, 20230315.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

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

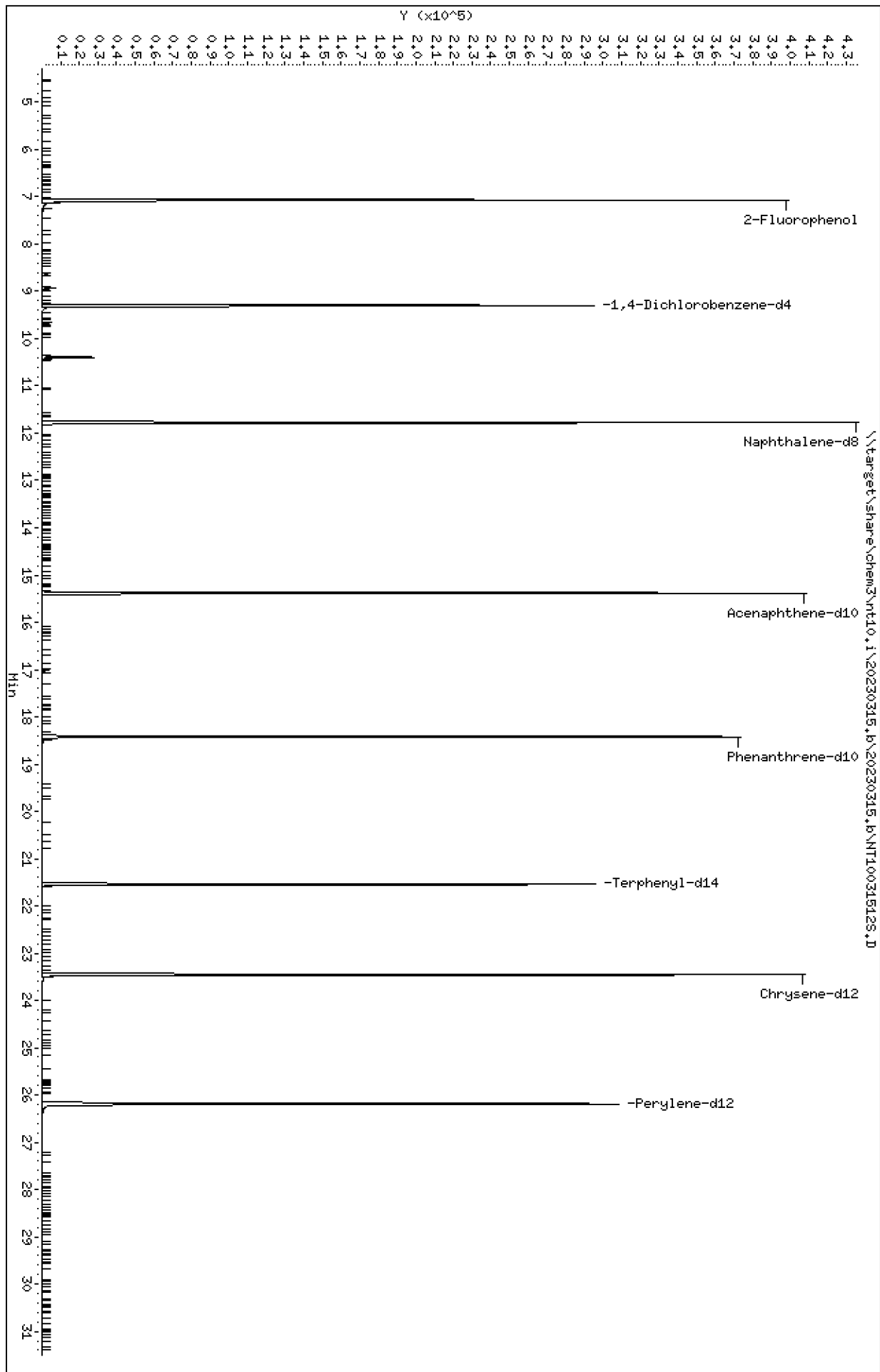
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230315.b/20230315.b/NT10031511S.D
Injection Date: 16-MAR-2023 02:16
Lab ID: SLC0238-SCV1 Client ID:
Report Date: 03/16/2023 14:49



Data File: \\target\share\chem3\nt10.1\20230315.1\20230315.1\NT10031512S.D
 Date : 16-MAR-2023 02:54
 Client ID:
 Sample Info: SLC0238-ICB1
 Volume Injected (uL): 1.0
 Column phase: ZB-5msi

Instrument: nt10.1
 Operator: JGR
 Column diameter: 0.25



ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031512S.D
 Lab Smp Id: SLC0238-ICB1
 Inj Date : 16-MAR-2023 02:54 MS Autotune Date: 16-JAN-2023 17:42
 Operator : JGR Inst ID: nt10.i
 Smp Info : SLC0238-ICB1
 Misc Info :
 Comment :
 Method : \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
 Meth Date : 16-Mar-2023 14:39 van Quant Type: ISTD
 Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D
 Als bottle: 12
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: PSDDA.sub
 Target Version: 4.14
 Processing Host: VANS-201906

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

| Name | Value | Description |
|---------------|----------|---------------------------------|
| DF | 1.000 | Dilution Factor |
| Vo | 1000.000 | Volume of sample extracted (mL) |
| Vt | 1000.000 | Volume of final extract (uL) |
| Vi | 1.000 | Volume injected (uL) |
| Uf | 1.000 | ng unit correction factor |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT | SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|-------------------------------|-------|-----|--------|--------|---------|------------------------|----------------|----------|
| | | | | | | | ON-COLUMN | FINAL |
| | MASS | | | | | | (ug/mL) | (ug/L) |
| \$ 1 2-Fluorophenol | 112 | | 7.072 | 7.073 | (0.760) | 392056 | 6.82342 | 6.823(R) |
| 3 Phenol | 94 | | | | | Compound Not Detected. | | |
| 7 1,3-Dichlorobenzene | 146 | | | | | Compound Not Detected. | | |
| * 8 1,4-Dichlorobenzene-d4 | 152 | | 9.306 | 9.298 | (1.000) | 189475 | 4.00000 | |
| 9 1,4-Dichlorobenzene | 146 | | | | | Compound Not Detected. | | |
| 11 Benzyl alcohol | 79 | | | | | Compound Not Detected. | | |
| 12 1,2-Dichlorobenzene | 146 | | | | | Compound Not Detected. | | |
| 13 2-Methylphenol | 108 | | | | | Compound Not Detected. | | |
| 15 4-Methylphenol | 108 | | | | | Compound Not Detected. | | |
| 16 N-Nitroso-di-n-propylamine | 70 | | | | | Compound Not Detected. | | |
| 22 2,4-Dimethylphenol | 107 | | | | | Compound Not Detected. | | |
| 24 Benzoic acid | 105 | | | | | Compound Not Detected. | | |
| 26 1,2,4-Trichlorobenzene | 180 | | | | | Compound Not Detected. | | |
| * 27 Naphthalene-d8 | 136 | | 11.774 | 11.775 | (1.000) | 676186 | 4.00000 | |
| 30 Hexachlorobutadiene | 225 | | | | | Compound Not Detected. | | |
| 39 Dimethylphthalate | 163 | | | | | Compound Not Detected. | | |
| * 42 Acenaphthene-d10 | 162 | | 15.379 | 15.380 | (1.000) | 328650 | 4.00000 | |
| 50 Diethylphthalate | 149 | | | | | Compound Not Detected. | | |
| 54 N-Nitrosodiphenylamine | 169 | | | | | Compound Not Detected. | | |
| 57 Hexachlorobenzene | 284 | | | | | Compound Not Detected. | | |

| Compounds | QUANT | SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|---------------------------|-------|-----|------------------------|--------|---------|----------|----------------|-----------|
| | | | | | | | ON-COLUMN | FINAL |
| | MASS | | | | | | (ug/mL) | (ug/L) |
| ===== | ===== | | ===== | ===== | ===== | ===== | ===== | ===== |
| 58 Pentachlorophenol | 266 | | Compound Not Detected. | | | | | |
| * 59 Phenanthrene-d10 | 188 | | 18.424 | 18.417 | (1.000) | 617605 | 4.00000 | |
| \$ 66 Terphenyl-d14 | 244 | | 21.542 | 21.543 | (0.918) | 340833 | 4.41767 | 4.418 (R) |
| 67 Butylbenzylphthalate | 149 | | Compound Not Detected. | | | | | |
| * 69 Chrysene-d12 | 240 | | 23.454 | 23.455 | (1.000) | 473513 | 4.00000 | |
| * 77 Perylene-d12 | 264 | | 26.187 | 26.188 | (1.000) | 534734 | 4.00000 | |
| 79 Dibenzo(a,h)anthracene | 278 | | Compound Not Detected. | | | | | |
| 90 N-Nitrosodimethylamine | 74 | | Compound Not Detected. | | | | | |

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i
 Lab File ID: NT10031512S.D
 Lab Smp Id: SLC0238-ICB1
 Analysis Type: SV
 Quant Type: ISTD
 Operator: JGR
 Method File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
 Misc Info:

Calibration Date: 15-MAR-2023
 Calibration Time: 23:06
 Level: LOW
 Sample Type: AIR

Test Mode:
 Use Last Continuing Calibrator.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|------------|---------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 188081 | 94041 | 376162 | 189475 | 0.74 |
| 27 Naphthalene-d8 | 674549 | 337275 | 1349098 | 676186 | 0.24 |
| 42 Acenaphthene-d10 | 328275 | 164138 | 656550 | 328650 | 0.11 |
| 59 Phenanthrene-d10 | 597140 | 298570 | 1194280 | 617605 | 3.43 |
| 69 Chrysene-d12 | 466503 | 233252 | 933006 | 473513 | 1.50 |
| 77 Perylene-d12 | 518203 | 259102 | 1036406 | 534734 | 3.19 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 9.30 | 8.80 | 9.80 | 9.31 | 0.08 |
| 27 Naphthalene-d8 | 11.77 | 11.27 | 12.27 | 11.77 | -0.00 |
| 42 Acenaphthene-d10 | 15.39 | 14.89 | 15.89 | 15.38 | -0.05 |
| 59 Phenanthrene-d10 | 18.42 | 17.92 | 18.92 | 18.42 | -0.00 |
| 69 Chrysene-d12 | 23.45 | 22.95 | 23.95 | 23.45 | -0.00 |
| 77 Perylene-d12 | 26.19 | 25.69 | 26.69 | 26.19 | -0.00 |

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

REVIEW SUMMARY FOR FILE - NT10031512S.D

Lab ID: SLC0238-ICB1

nt10.i, 20230315.b\20230315.b\SIMABN2.m, 16-MAR-2023 02:54

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

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

NONE

RRT check based on Ccal File: 20230315.b/NT10031510S.D

On Column LOD for nt10.i, 20230315.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

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



SECOND-SOURCE CALIBRATION VERIFICATION
EPA 8270E-SIM

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Calibration: GC00049

Laboratory ID: SLC0238-SCV1

Sequence: SLC0238

Sequence Name: SCV 5.0

Standard ID: K010066

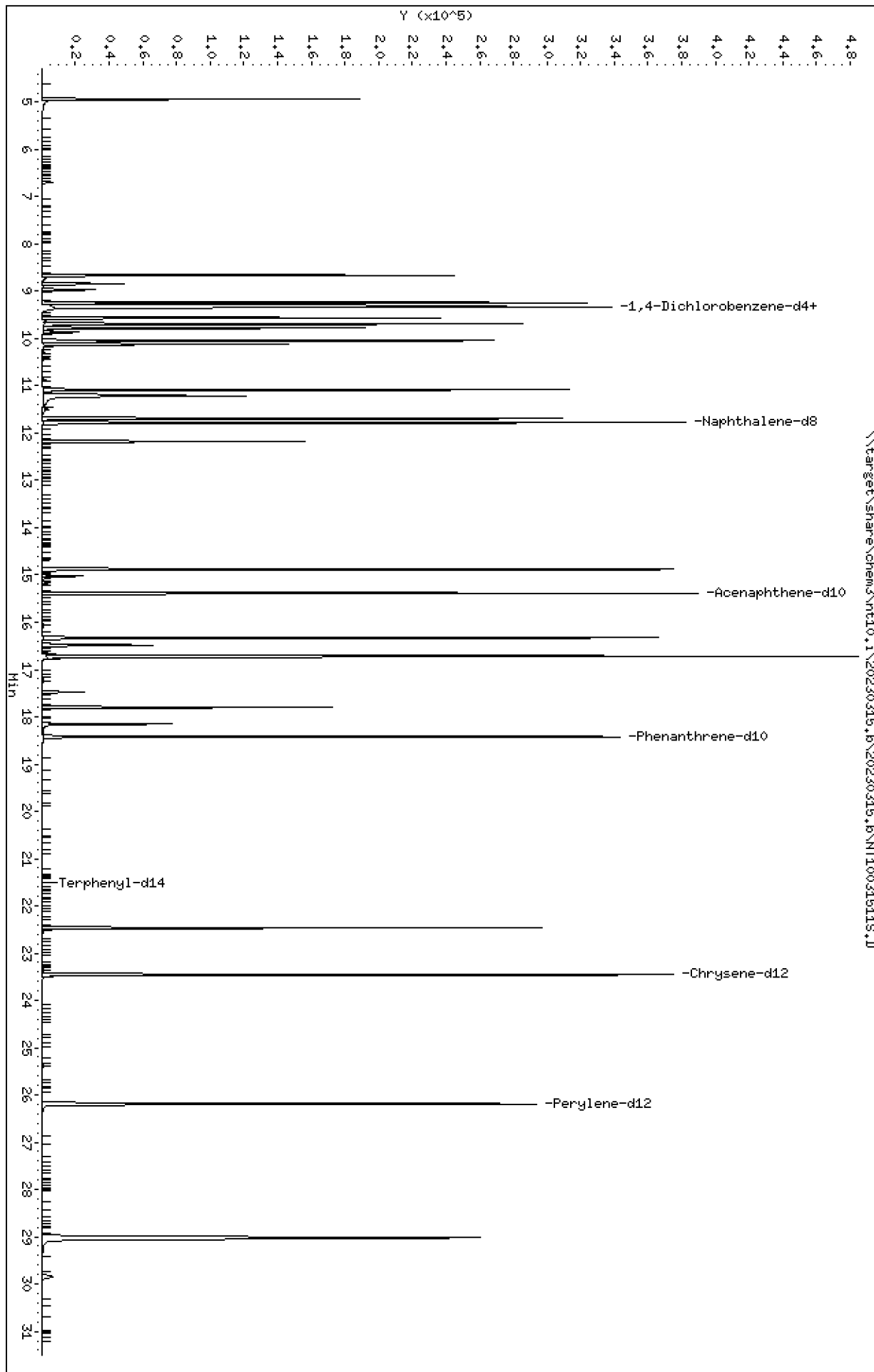
| ANALYTE | EXPECTED (ug/mL) | FOUND (ug/mL) | % DRIFT | QC LIMIT |
|------------------------|---------------------|------------------|---------|----------|
| 1,4-Dichlorobenzene | 5.0000 | 4.8 | -3.2 | 20.00 |
| 1,2-Dichlorobenzene | 5.0000 | 4.7 | -6.4 | 20.00 |
| Benzyl Alcohol | 5.0000 | 5.2 | 3.6 | 20.00 |
| Benzoic acid | 10.000 | 6.7 | -32.5 * | 20.00 |
| 2,4-Dimethylphenol | 5.0000 | 3.7 | -26.8 * | 20.00 |
| 1,2,4-Trichlorobenzene | 5.0000 | 4.4 | -11.1 | 20.00 |
| N-Nitrosodiphenylamine | 5.0000 | 5.1 | 1.6 | 20.00 |
| Pentachlorophenol | 5.0000 | 4.4 | -11.6 | 20.00 |
| 2-Fluorophenol | 7.5000 | 0.00 | | |
| p-Terphenyl-d14 | 5.0000 | 0.00154 | -100 | |

* Indicates values outside of QC limits

Data File: \\target\share\chem3\nt10.1\20230315.1\20230315.1\NT100315115.D
 Date: 16-MAR-2023 02:16
 Client ID:
 Sample Info: SLC0238-SCV1
 Volume Injected (uL): 1.0
 Column phase: ZB-5msi

Instrument: nt10.1
 Operator: JGR
 Column diameter: 0.25

\\target\share\chem3\nt10.1\20230315.1\20230315.1\NT100315115.D



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

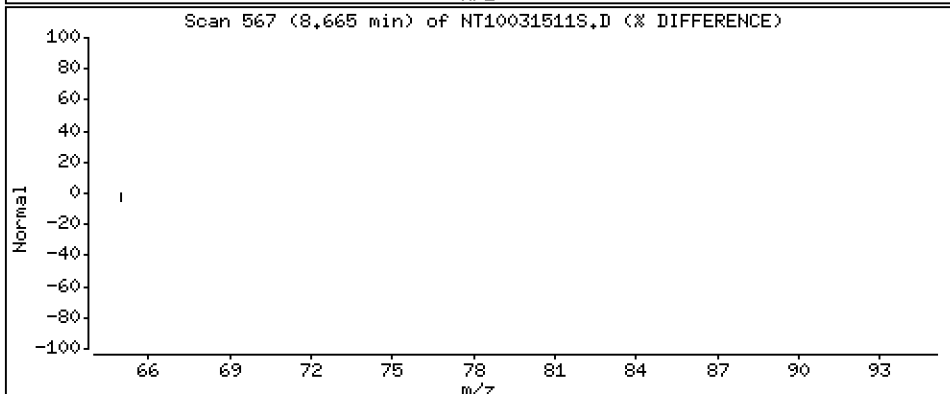
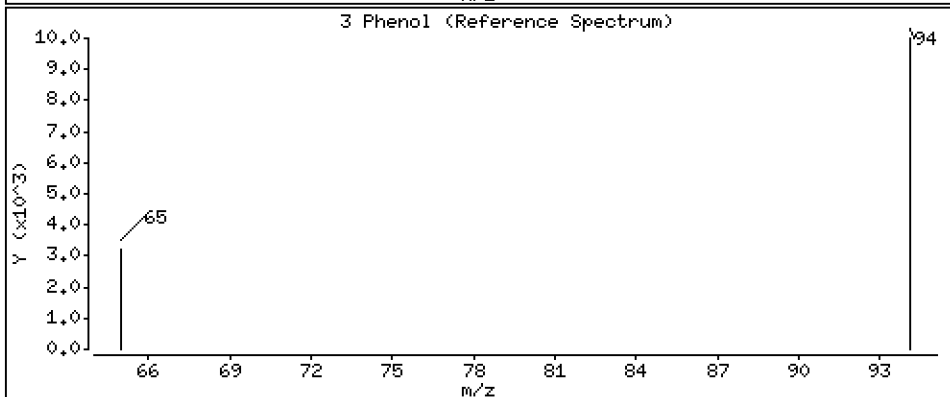
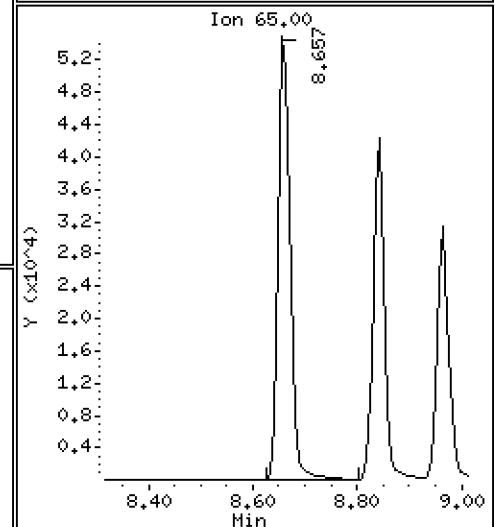
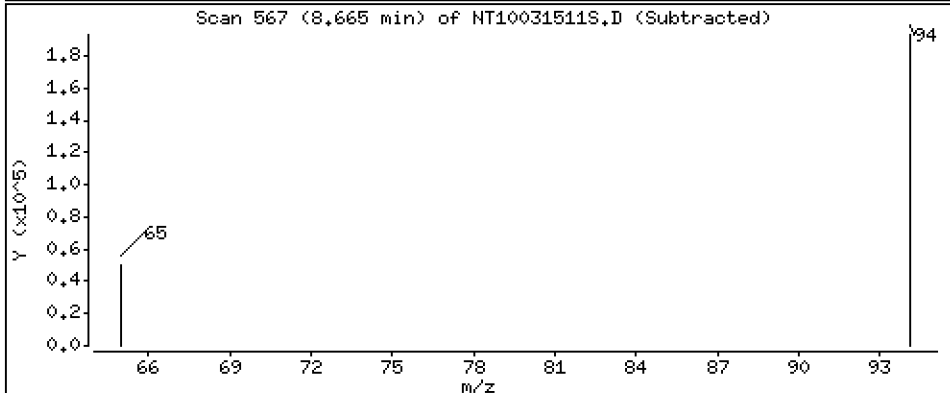
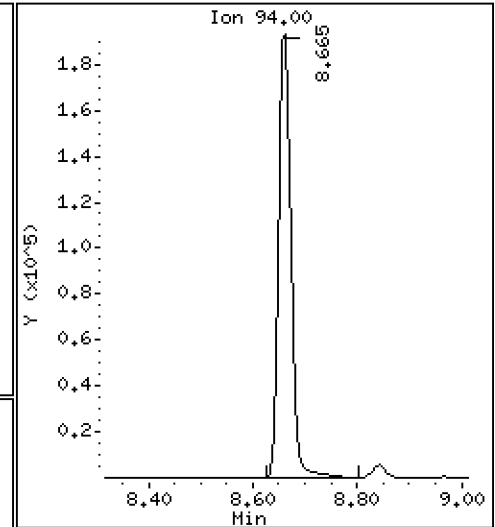
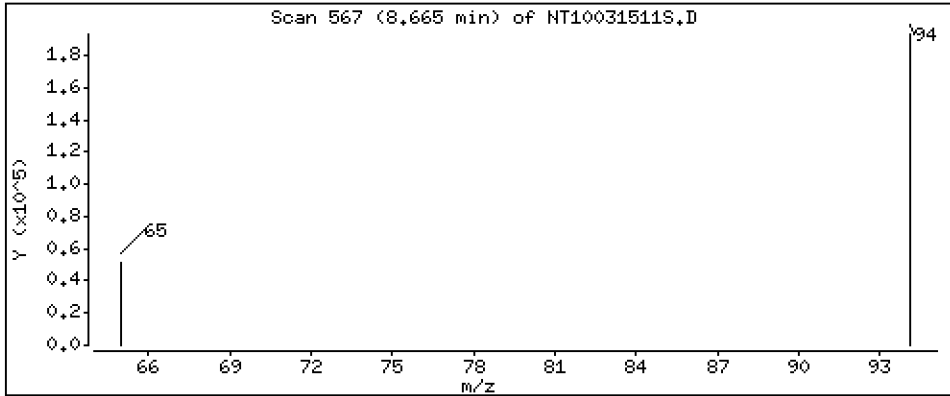
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

3 Phenol

Concentration: 4.373 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

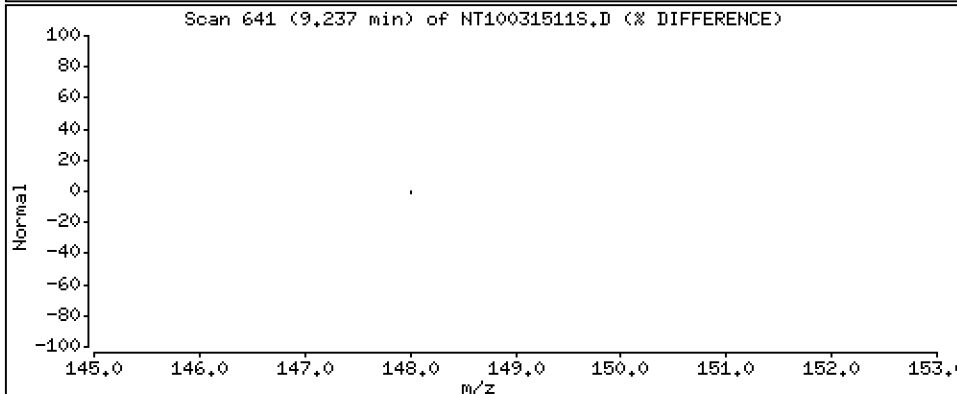
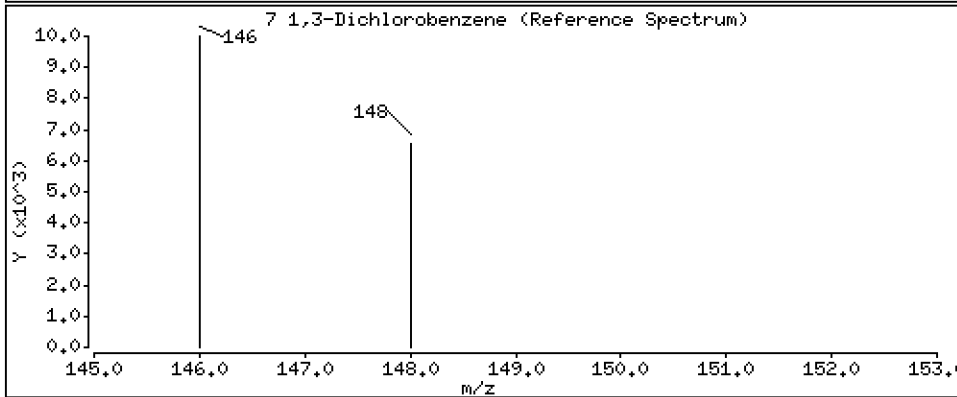
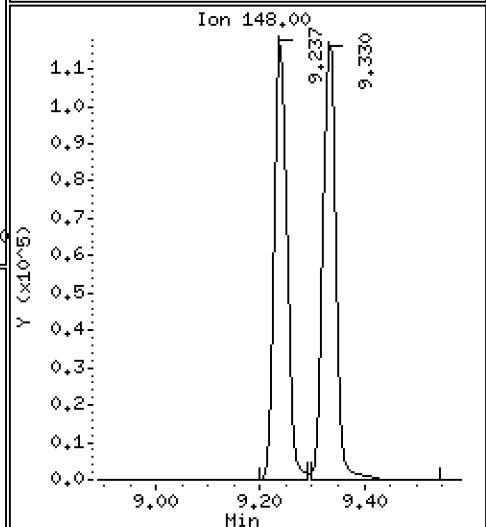
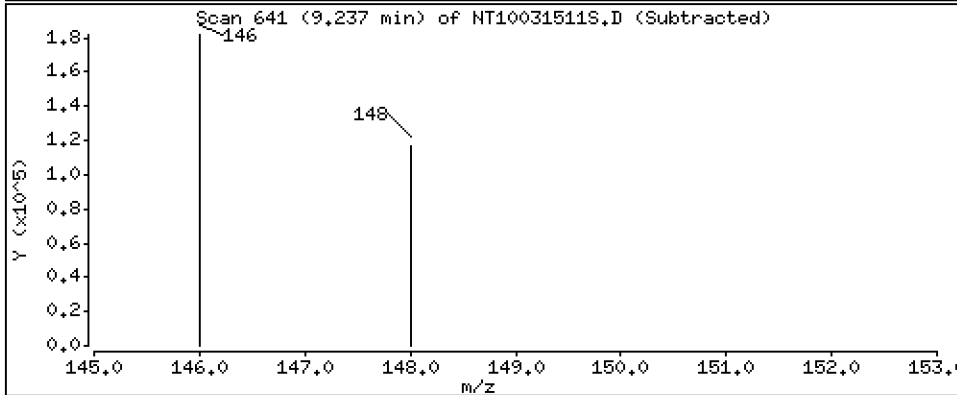
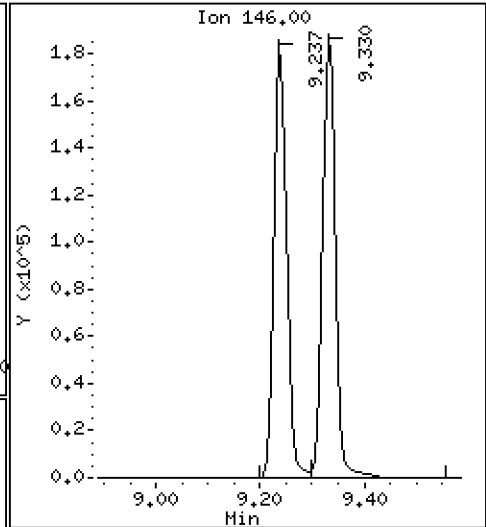
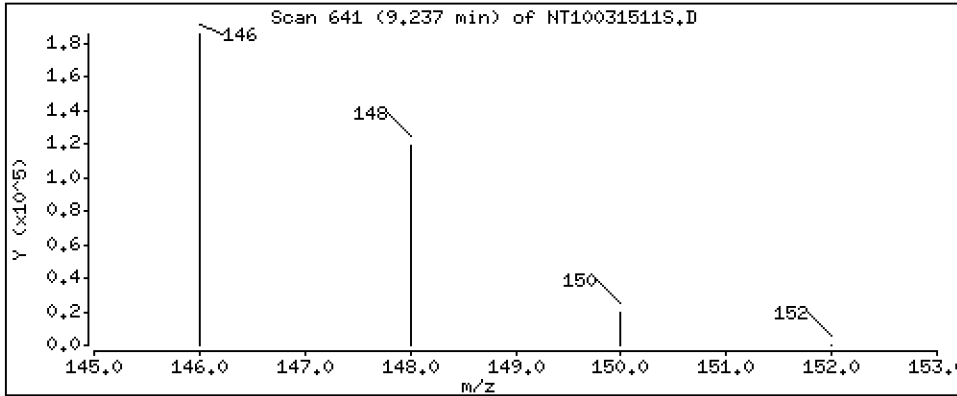
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

7 1,3-Dichlorobenzene

Concentration: 4.643 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

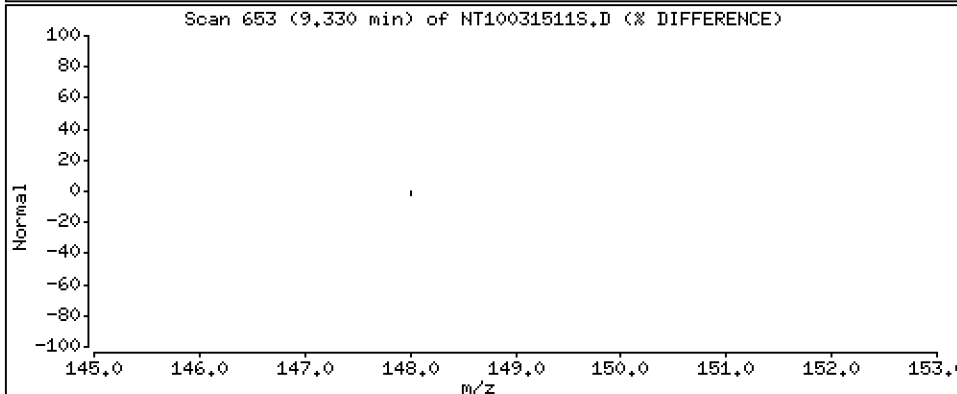
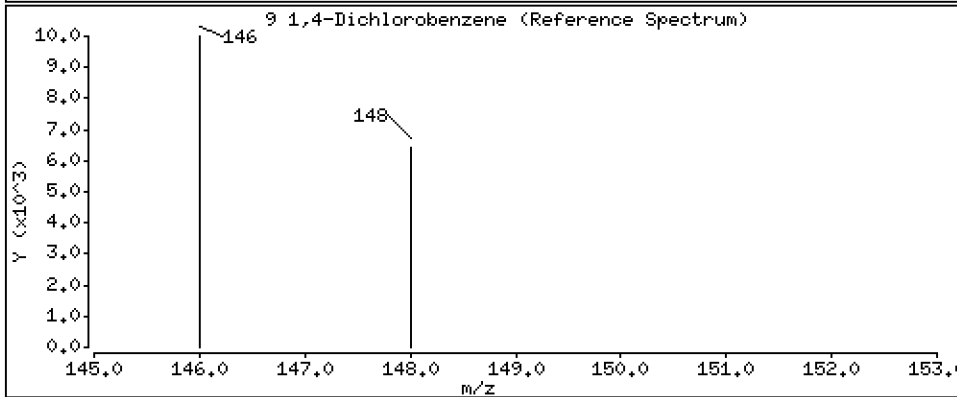
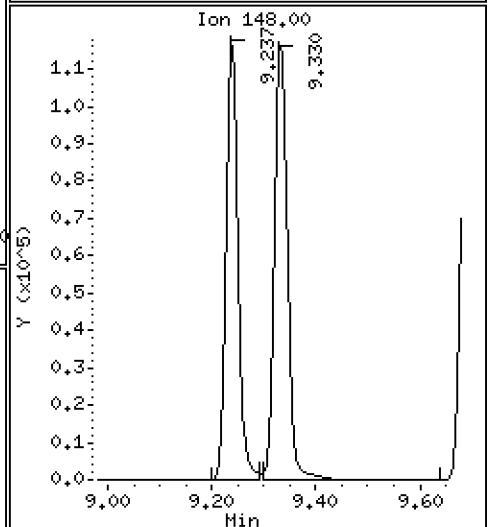
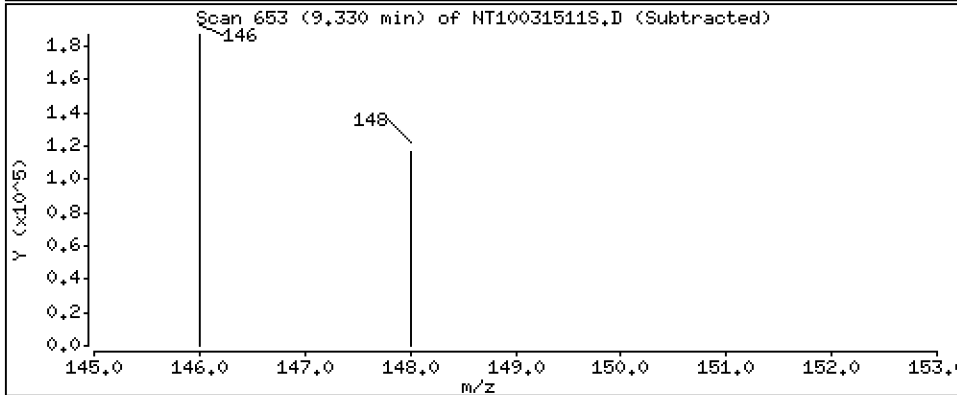
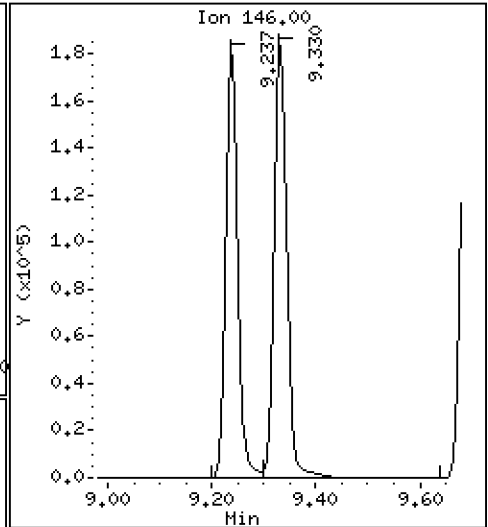
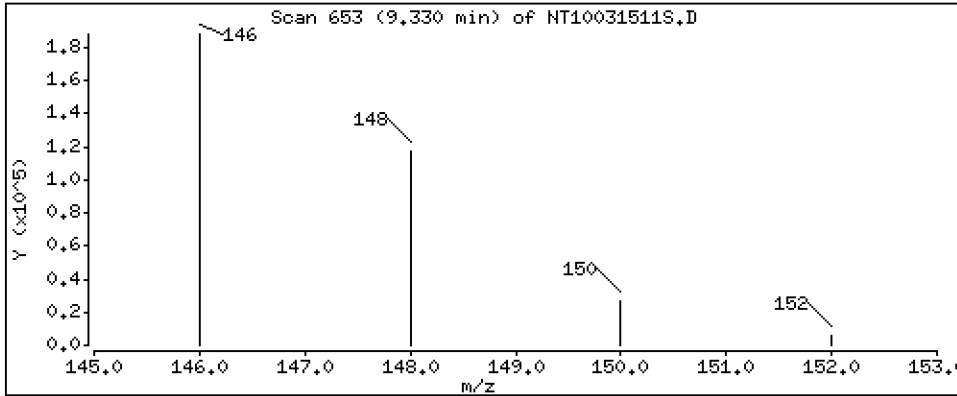
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

9 1,4-Dichlorobenzene

Concentration: 4.838 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

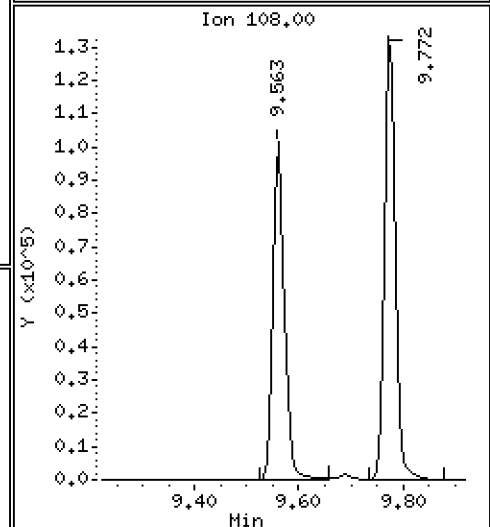
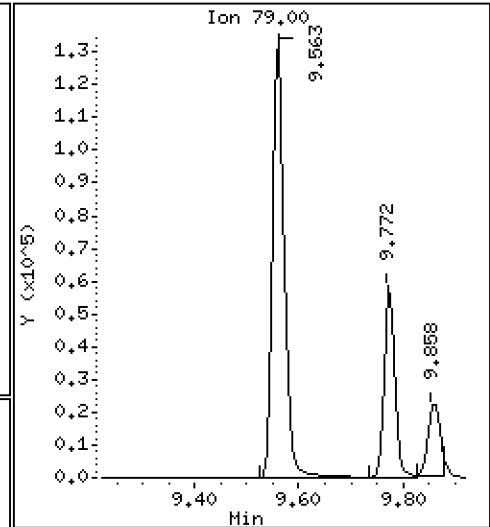
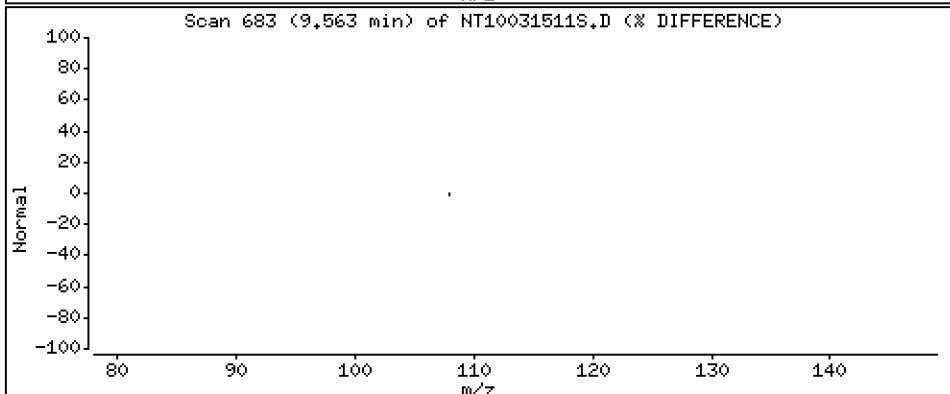
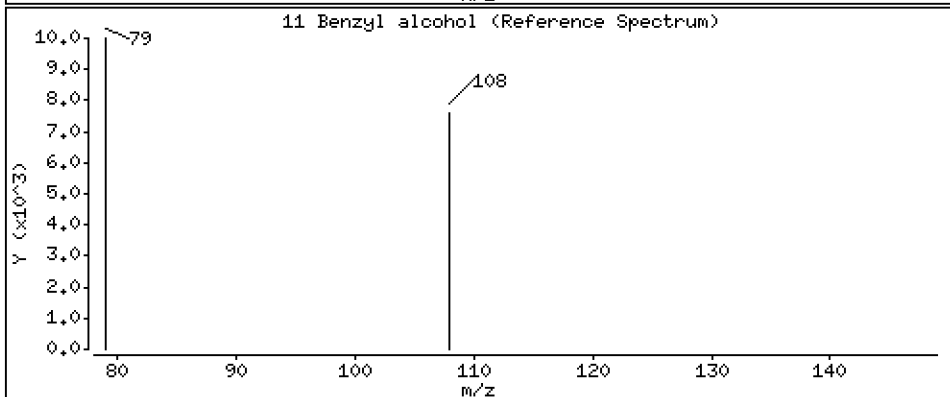
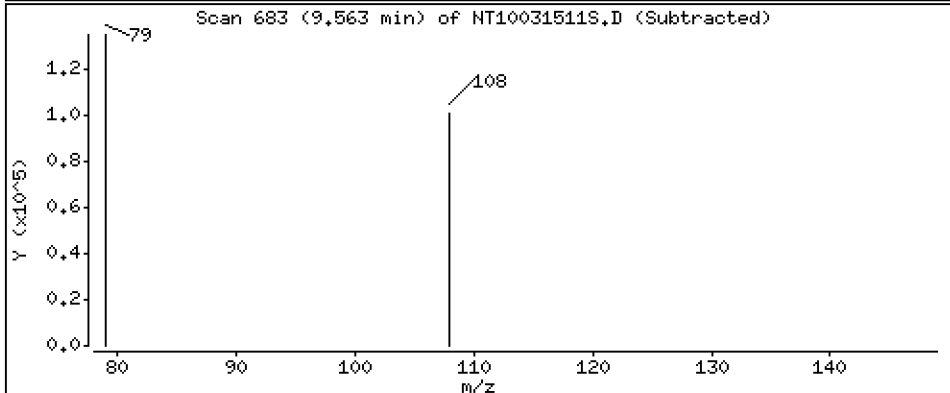
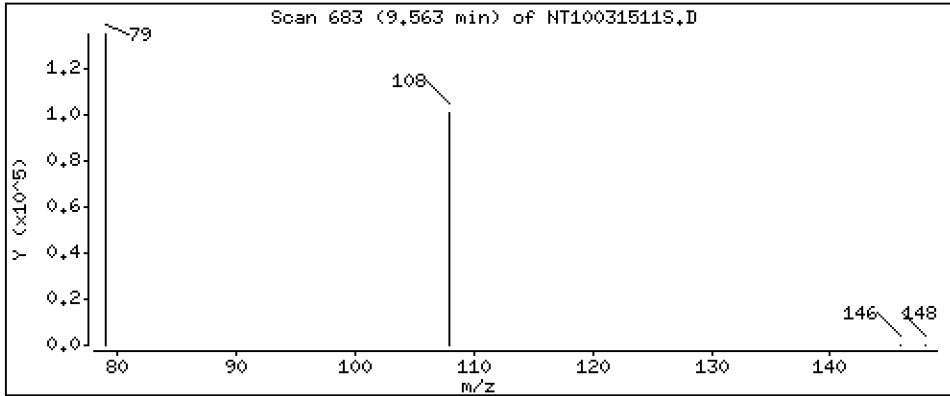
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 5.181 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

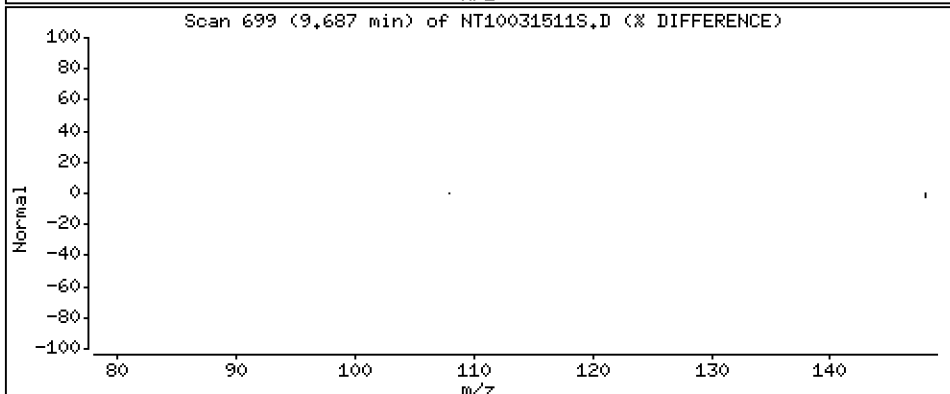
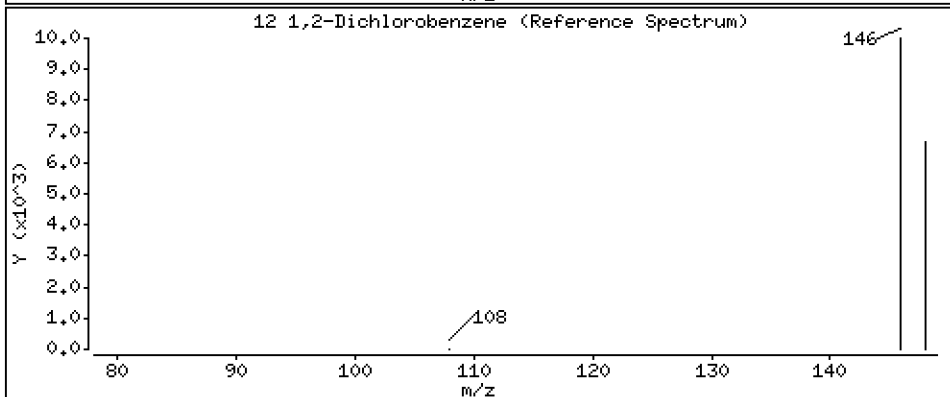
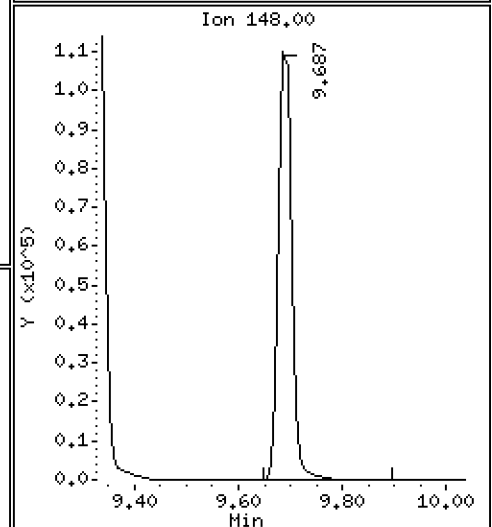
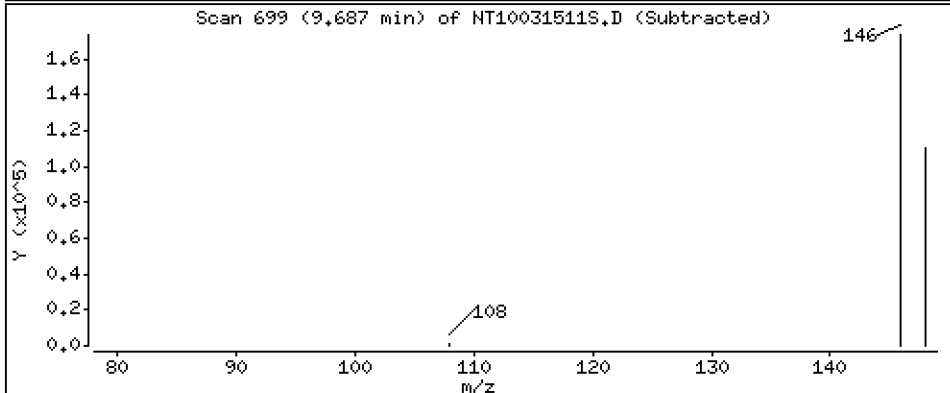
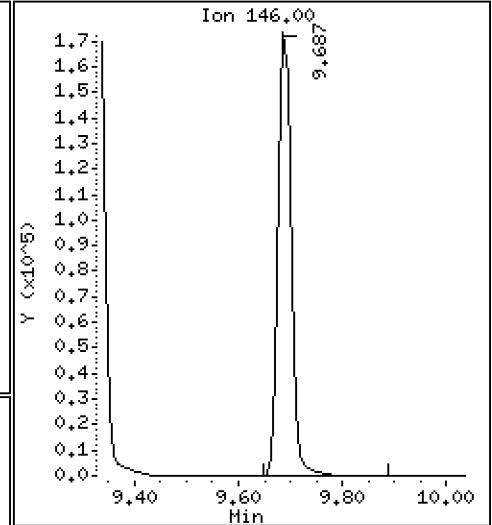
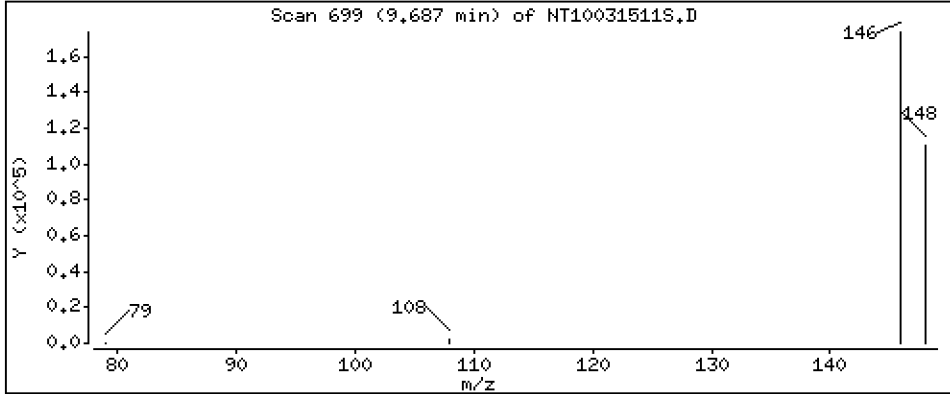
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

12 1,2-Dichlorobenzene

Concentration: 4.679 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

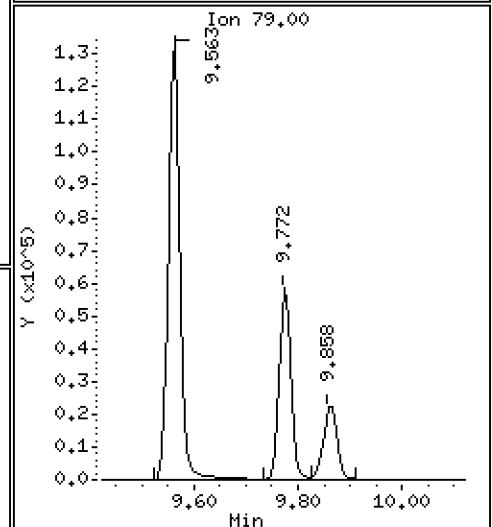
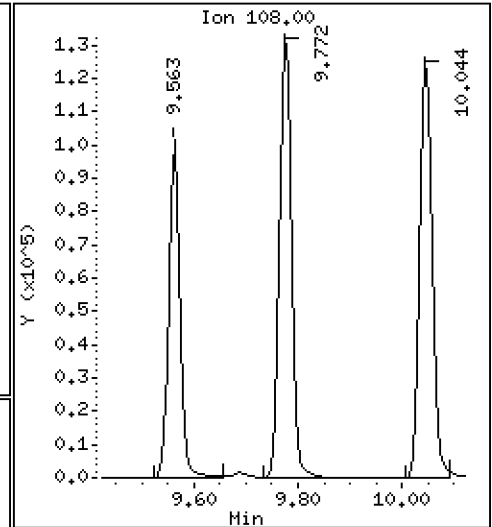
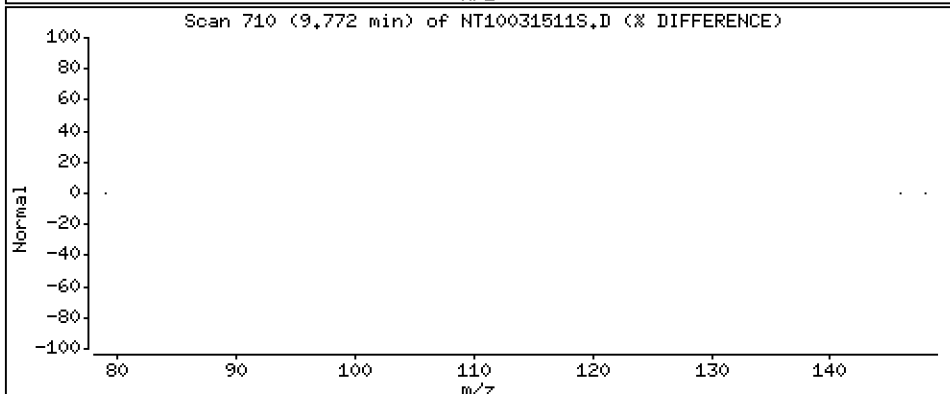
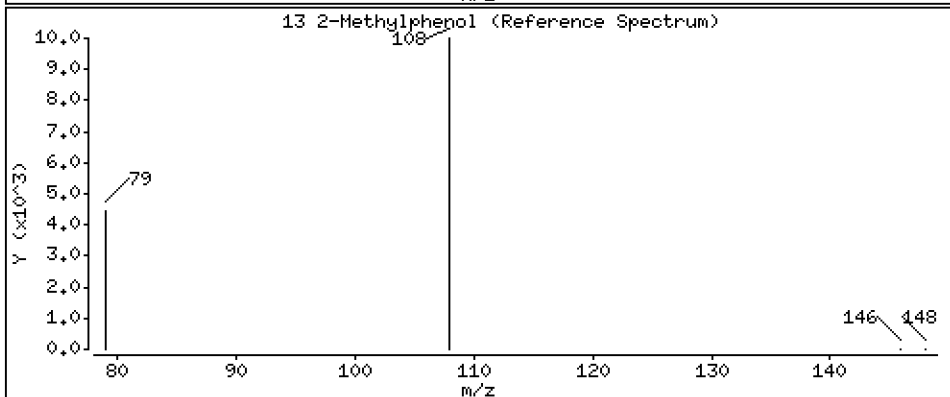
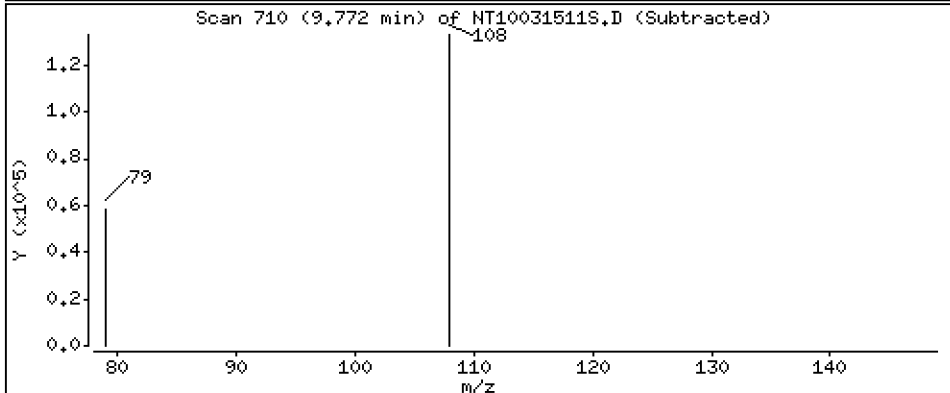
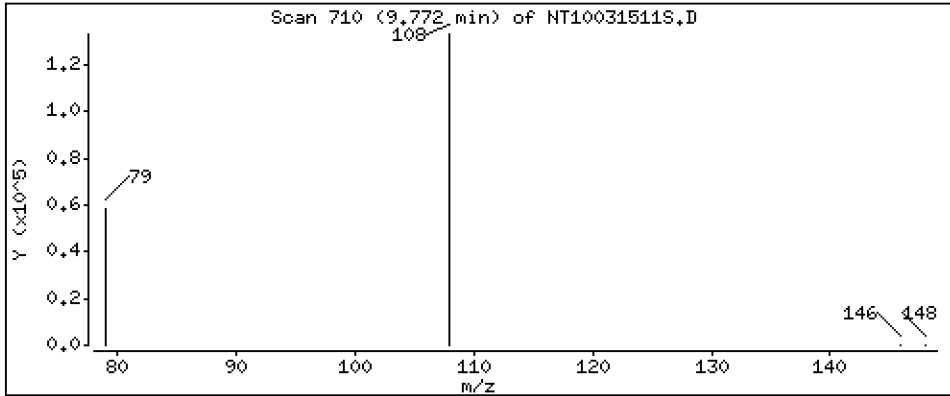
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

13 2-Methylphenol

Concentration: 4.197 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

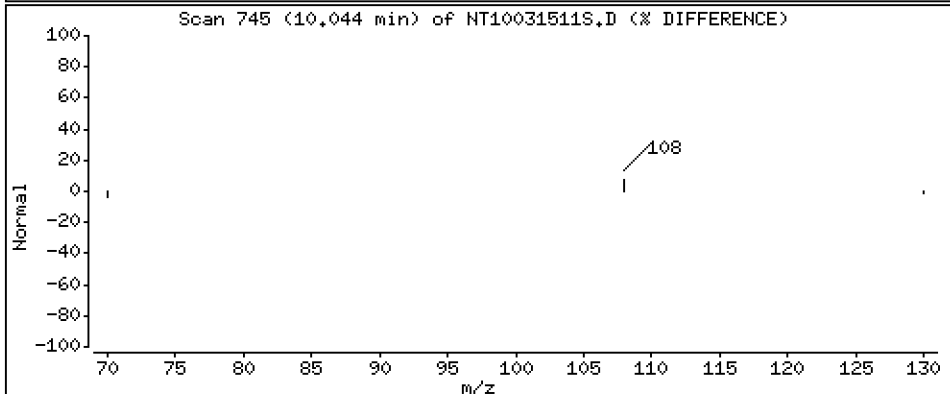
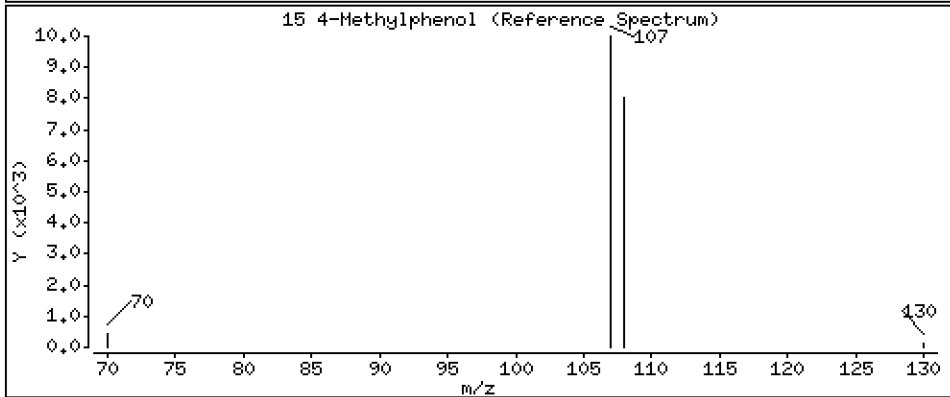
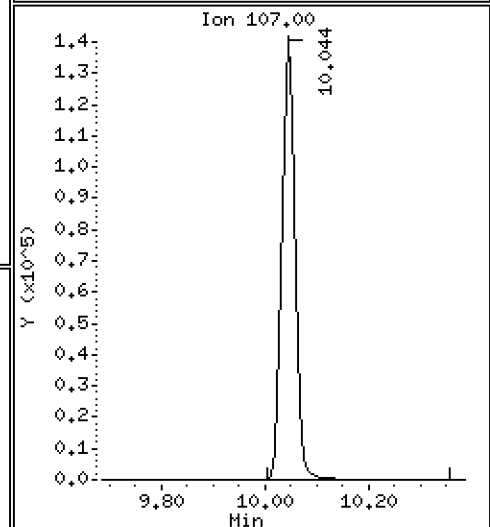
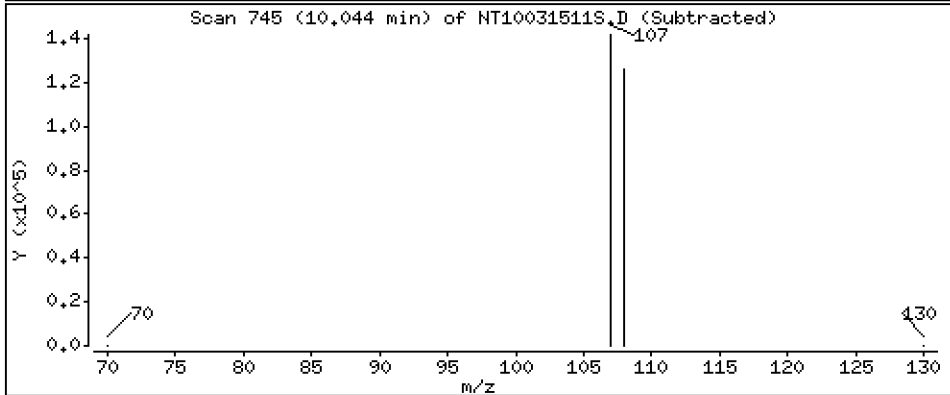
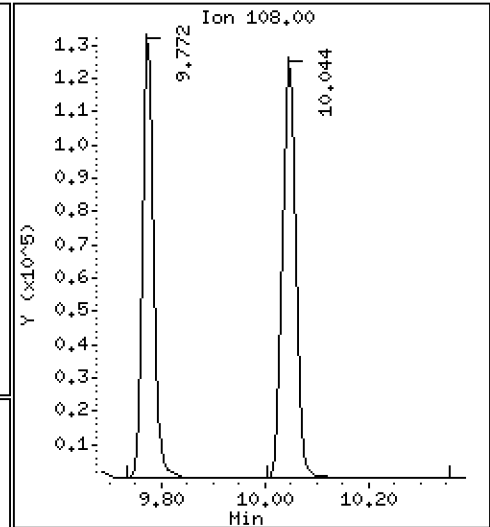
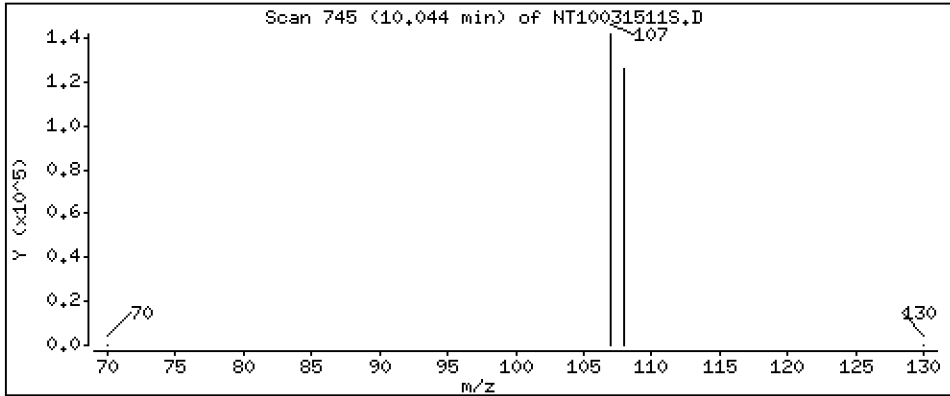
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 4.463 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

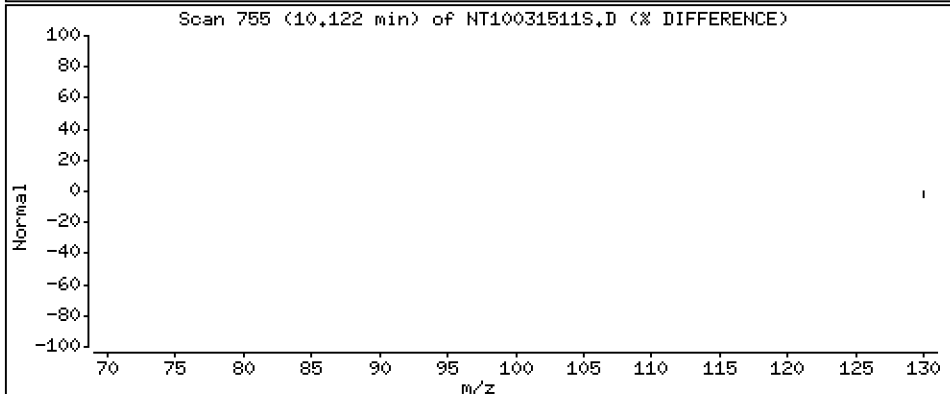
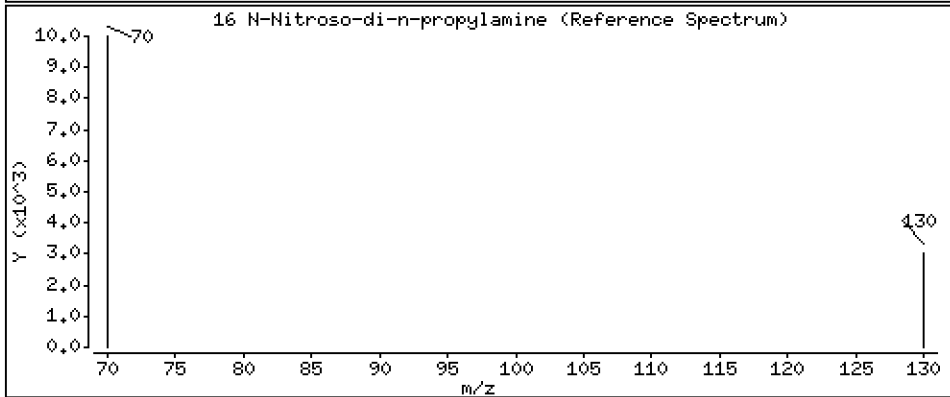
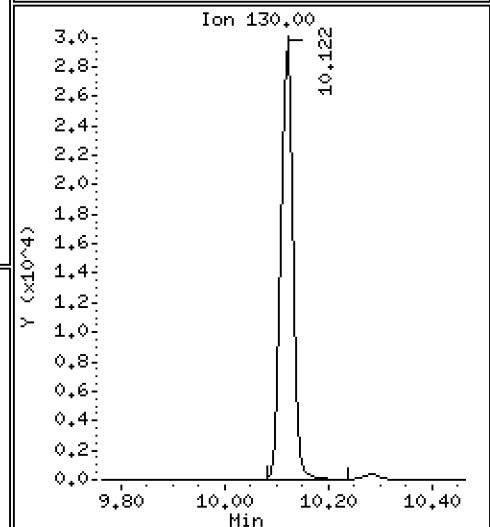
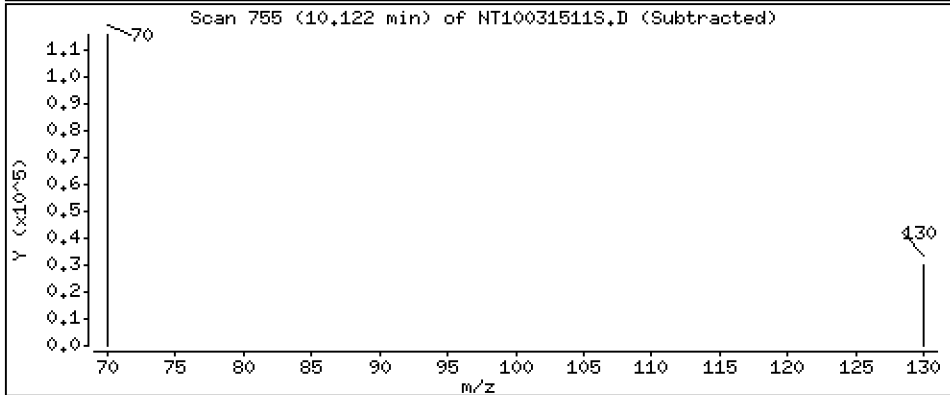
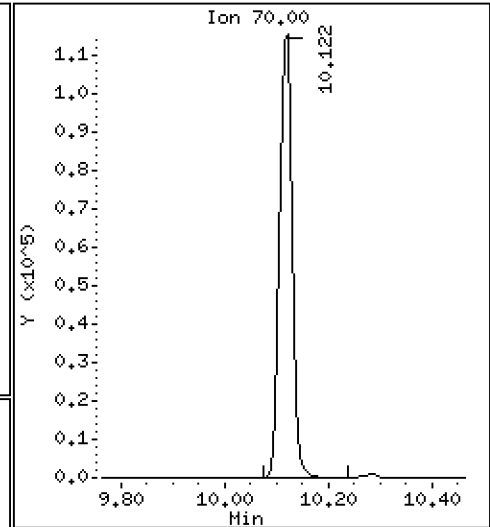
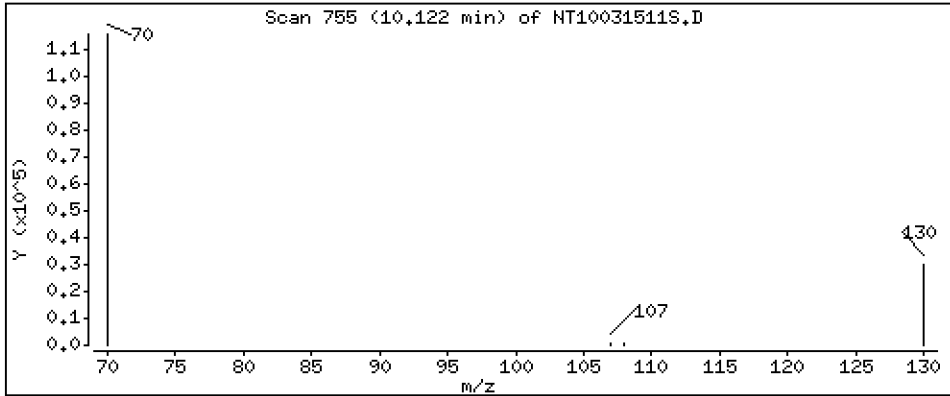
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

16 N-Nitroso-di-n-propylamine

Concentration: 5,282 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

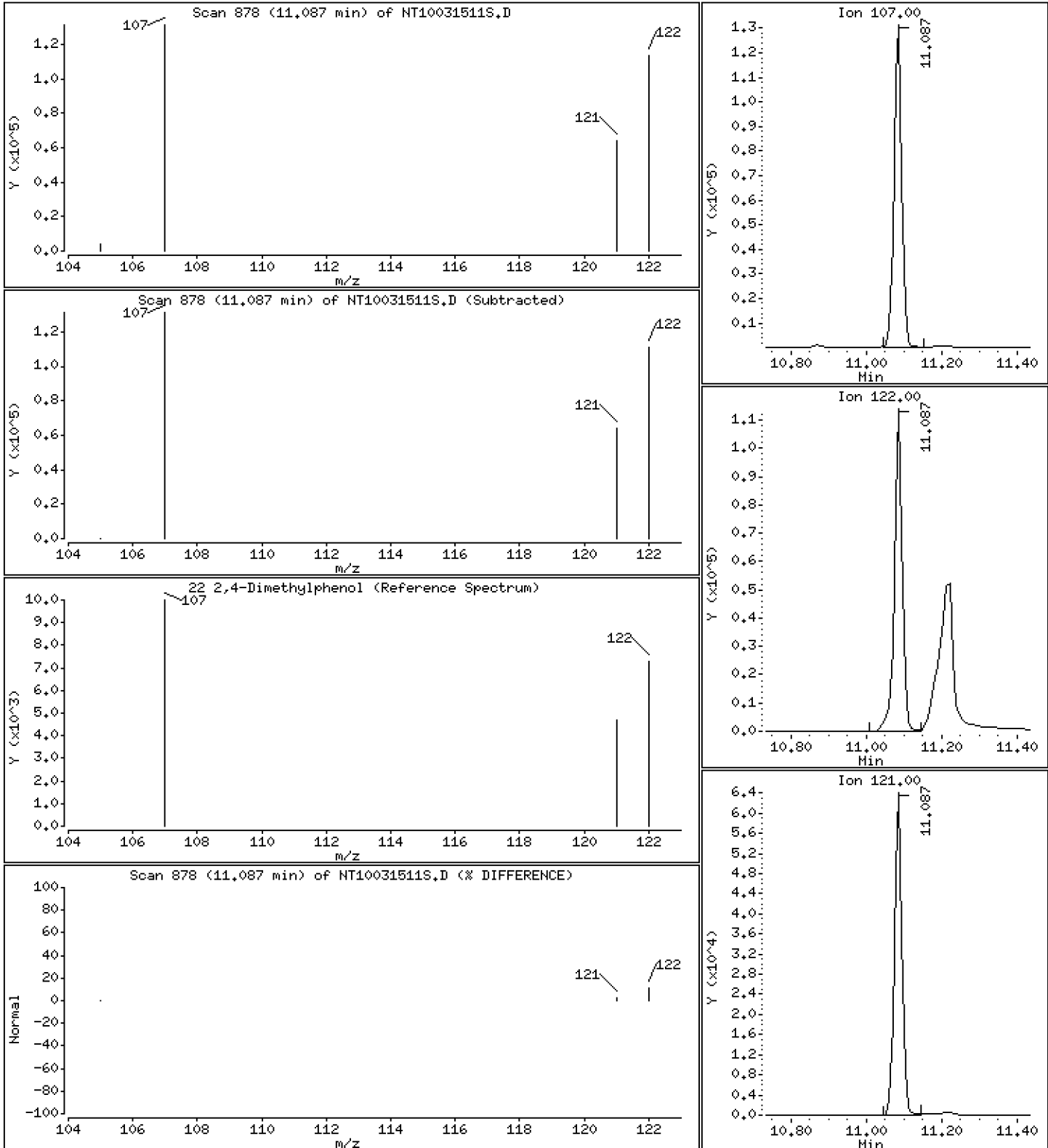
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

22 2,4-Dimethylphenol

Concentration: 3,660 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

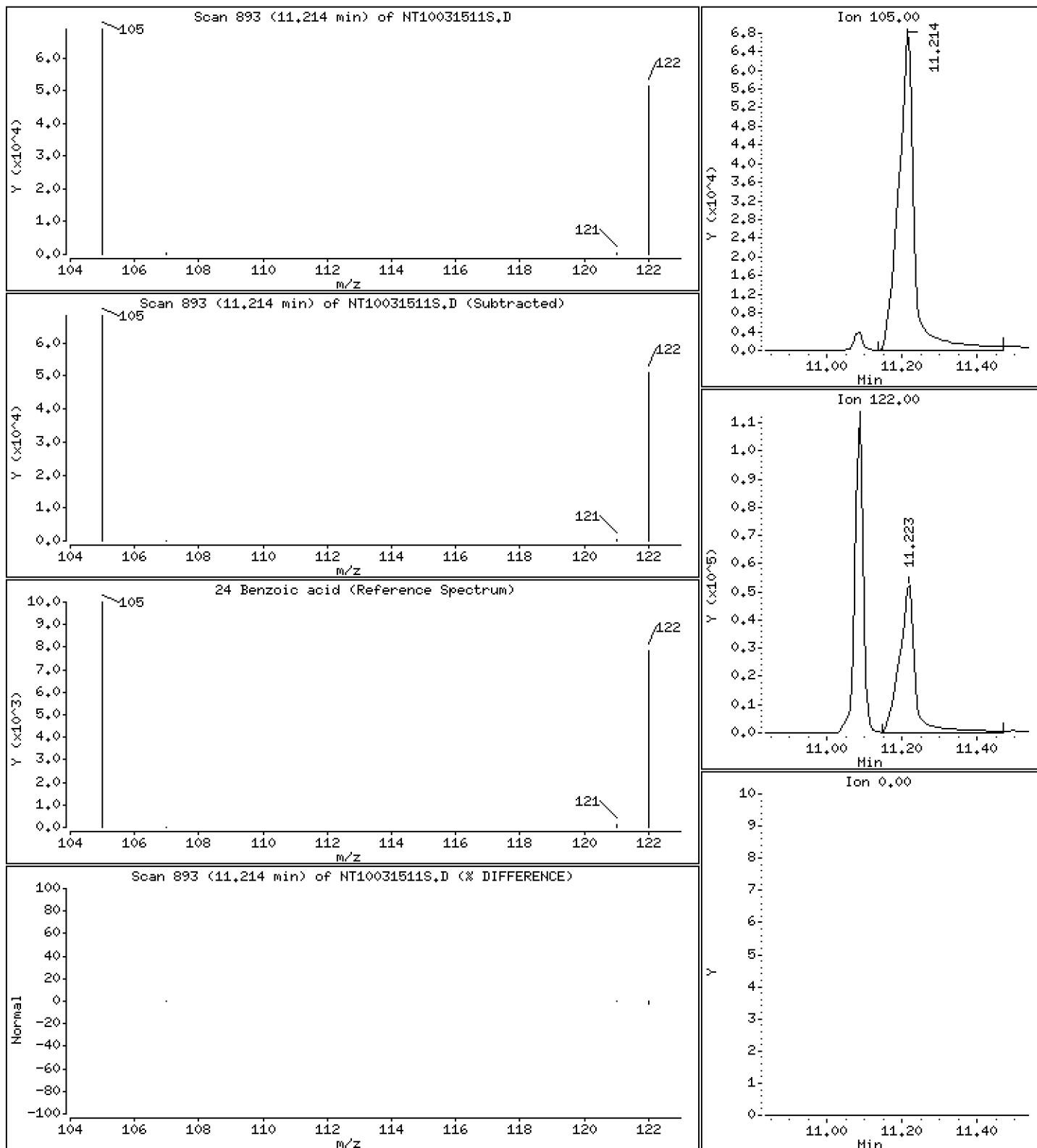
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

24 Benzoic acid

Concentration: 6,746 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

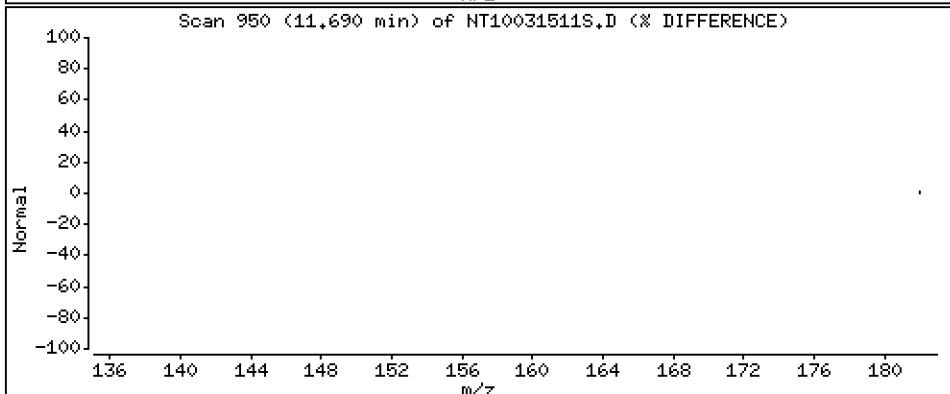
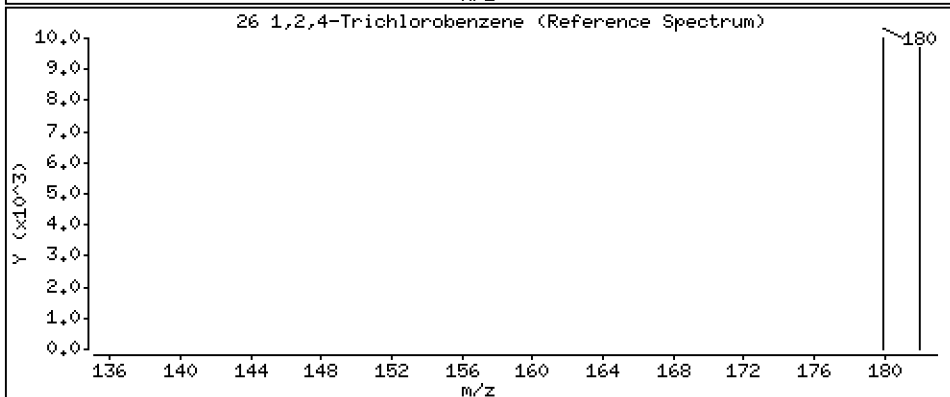
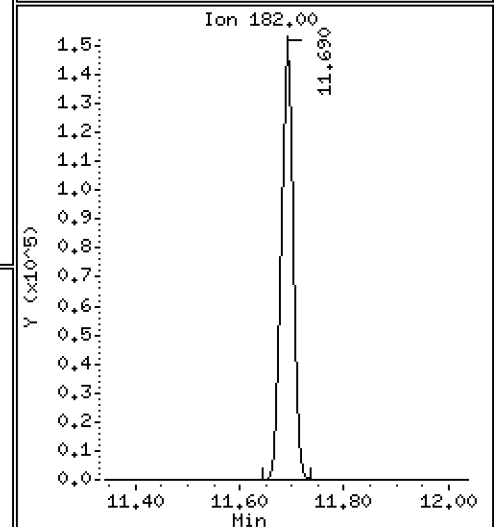
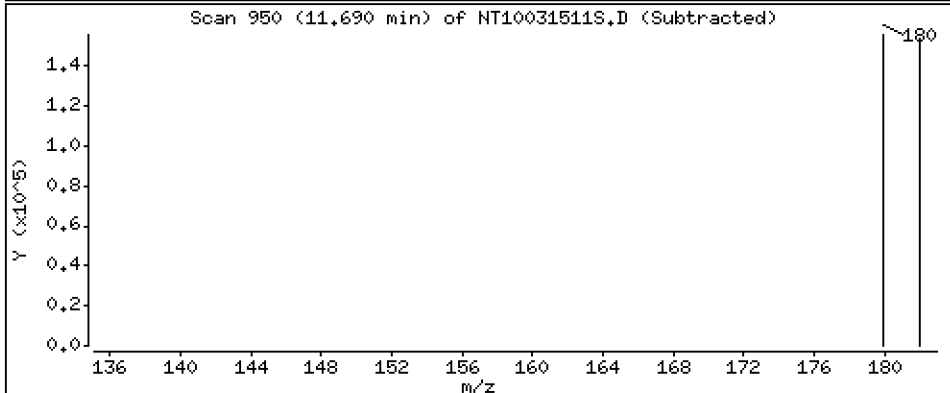
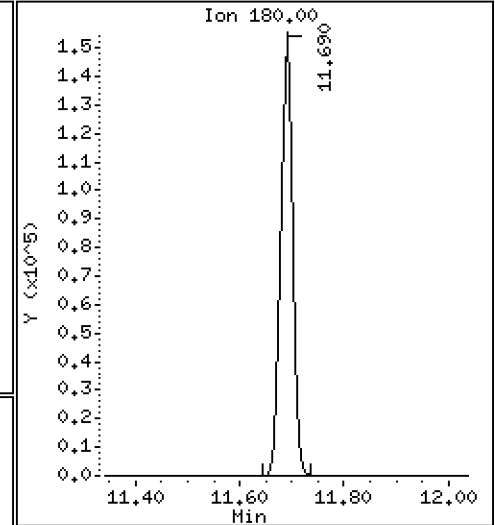
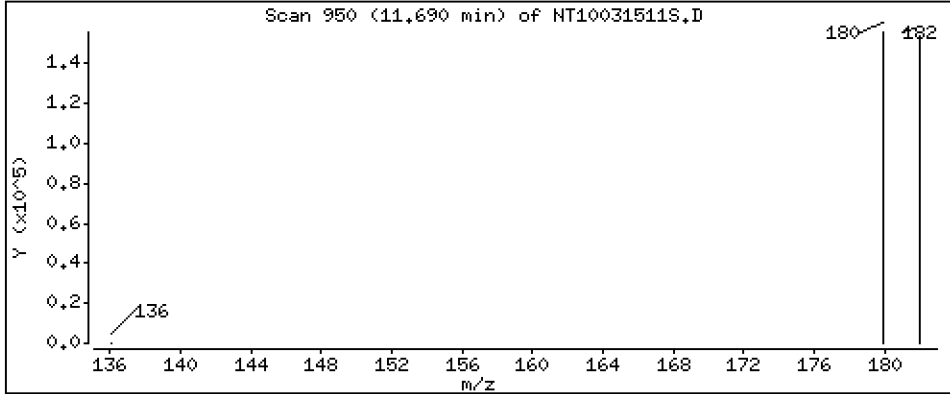
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 4,445 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

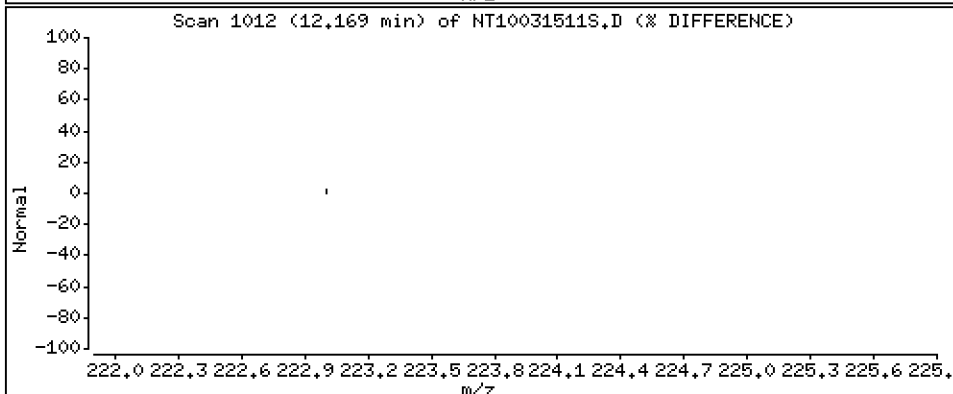
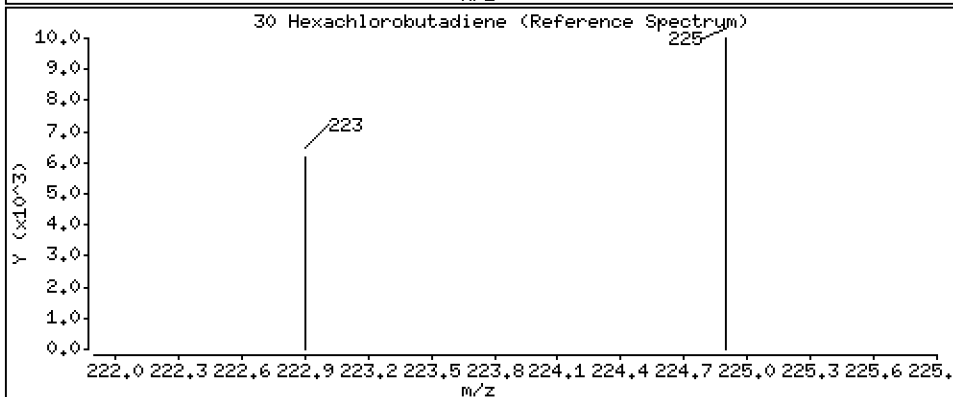
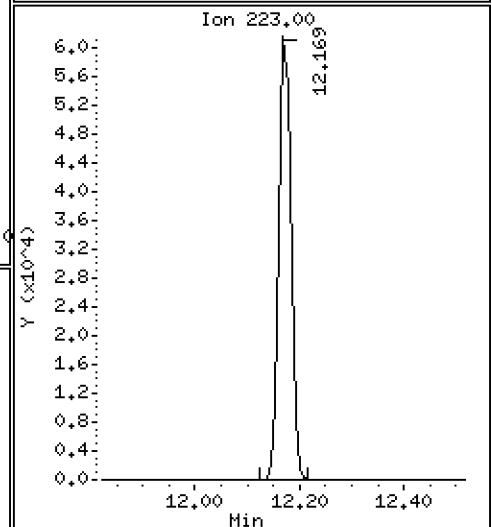
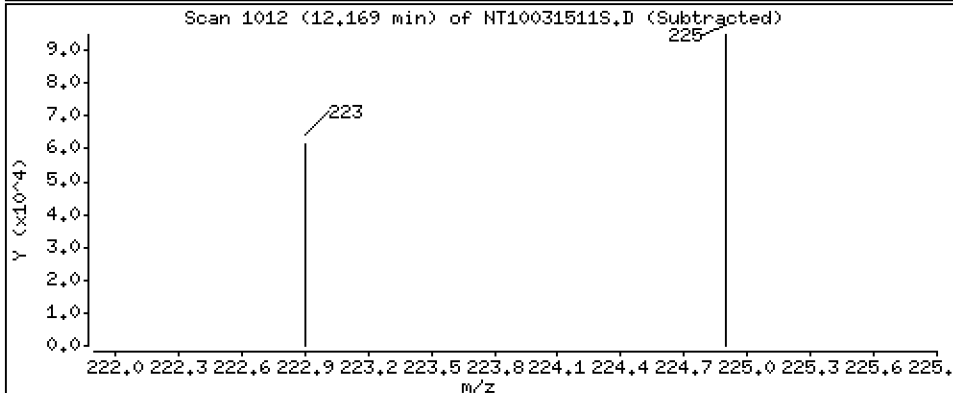
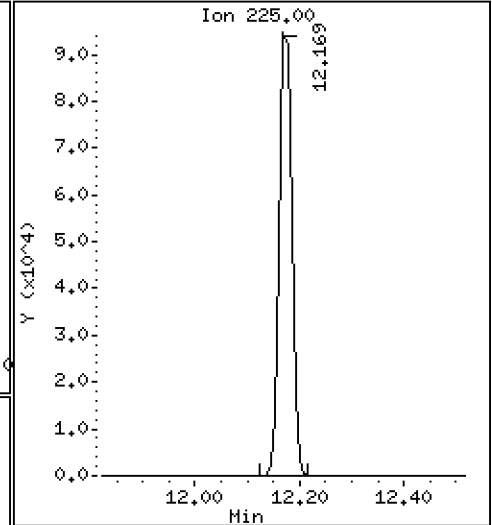
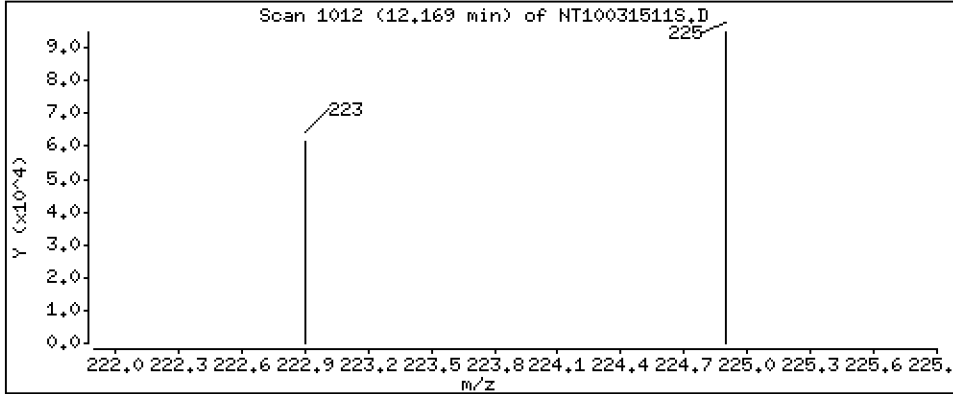
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 4,653 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

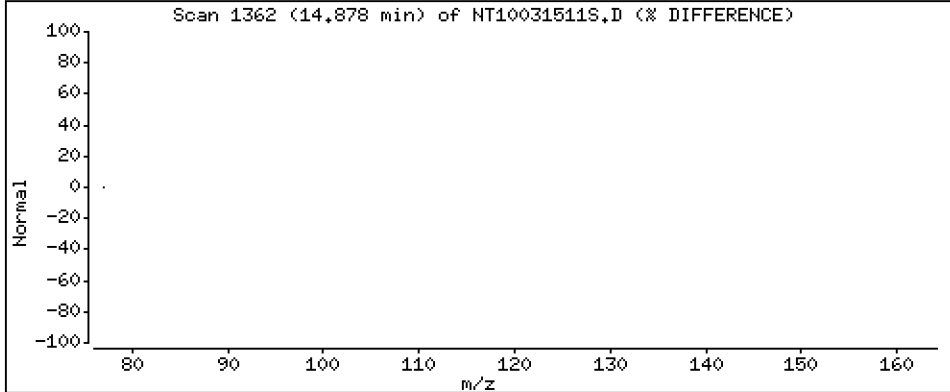
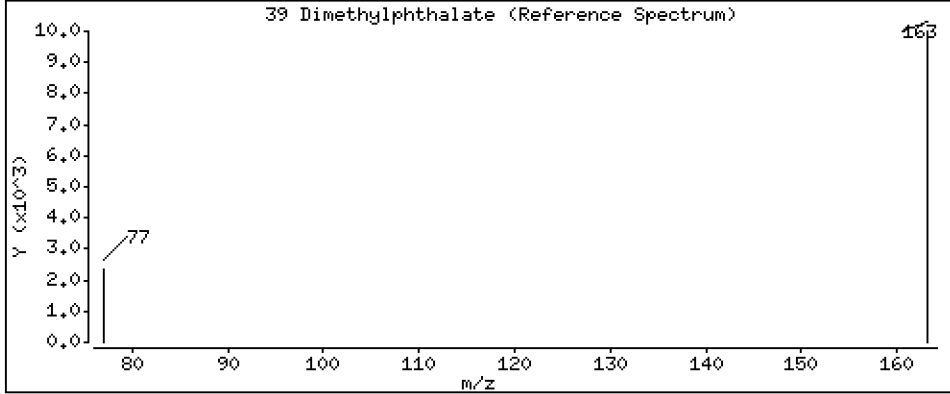
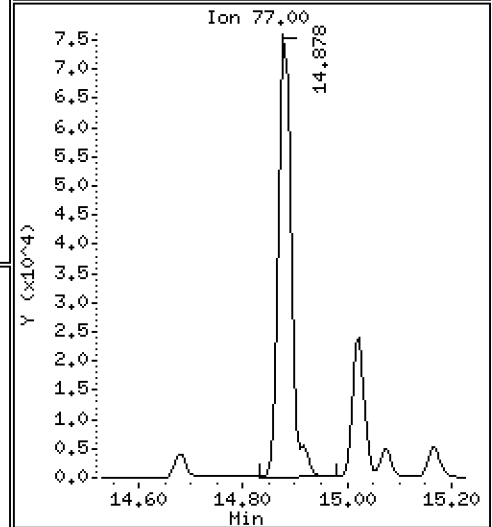
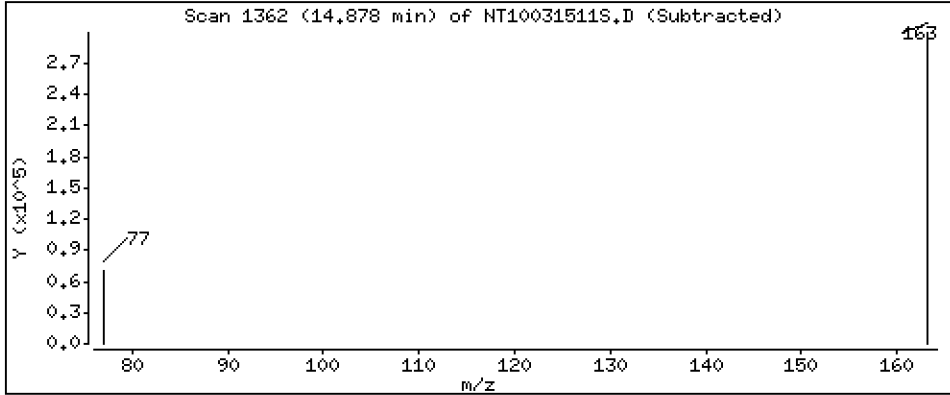
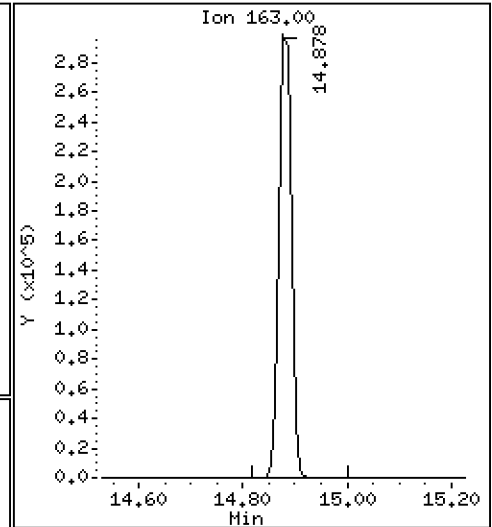
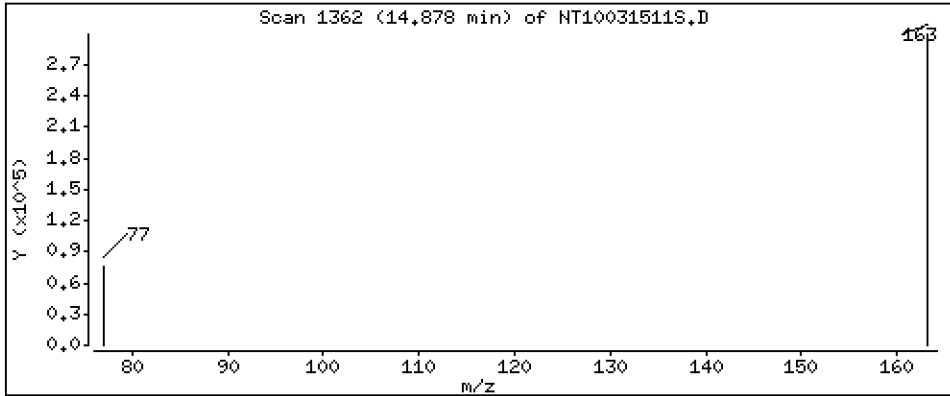
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 4,948 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

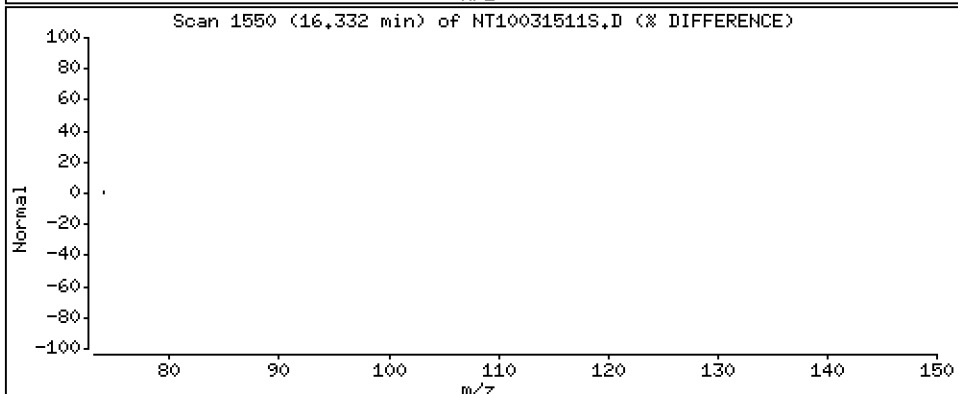
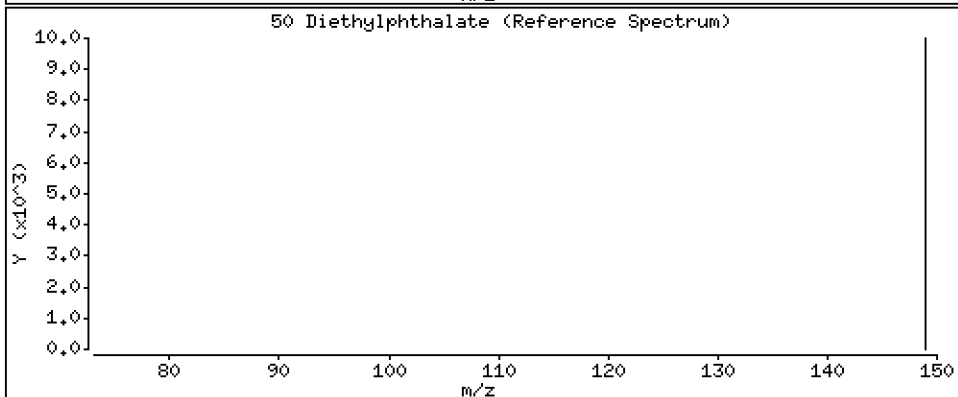
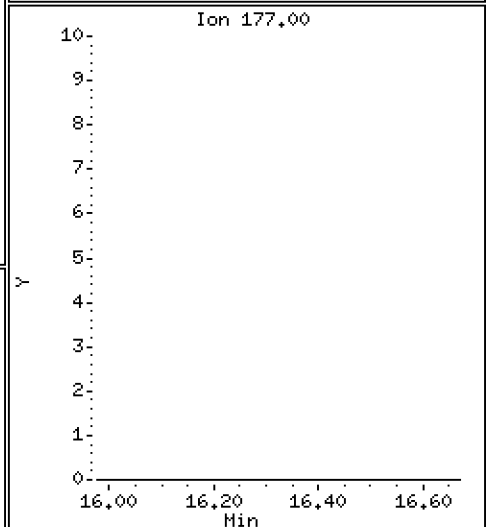
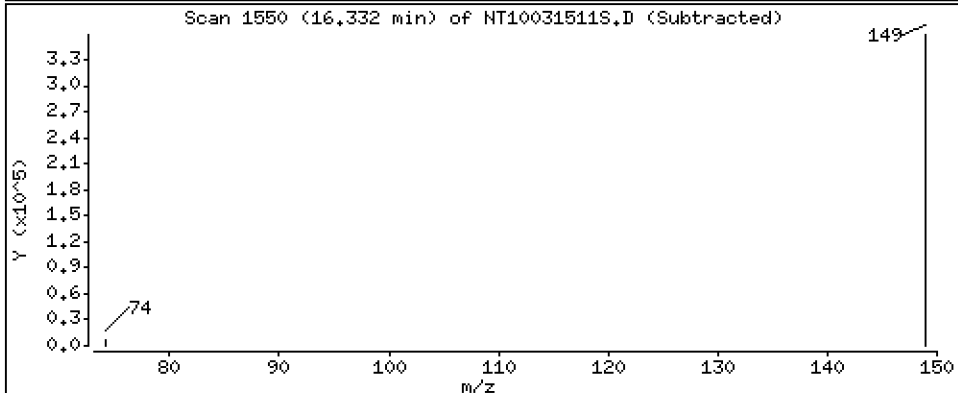
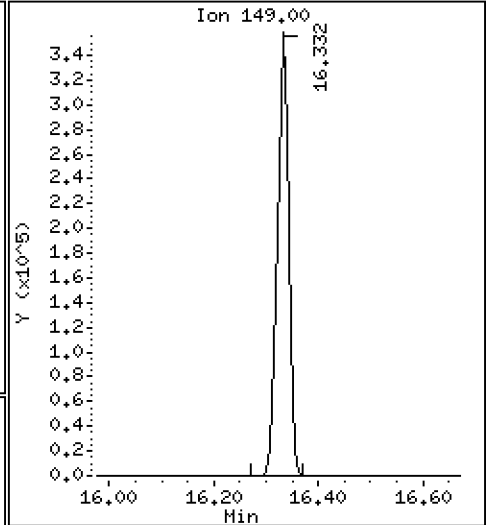
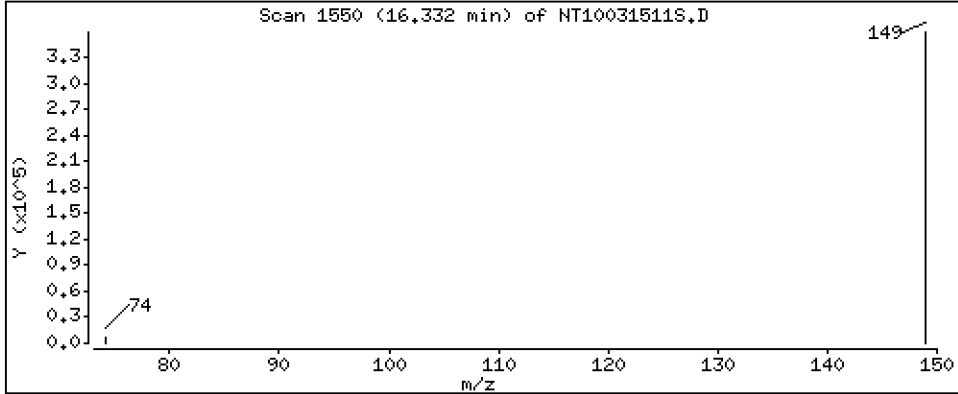
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

50 Diethylphthalate

Concentration: 5.364 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

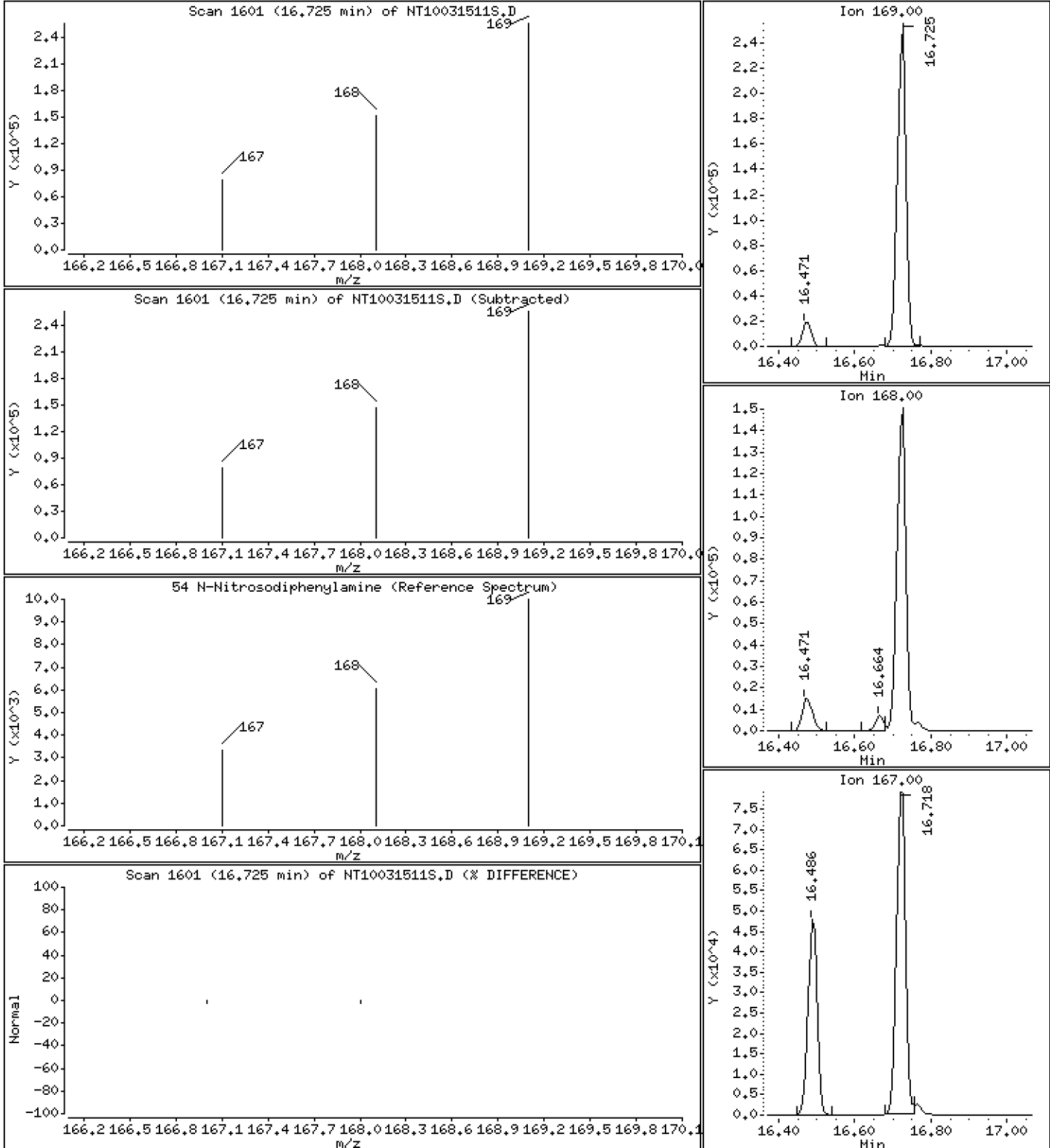
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

54 N-Nitrosodiphenylamine

Concentration: 5.080 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

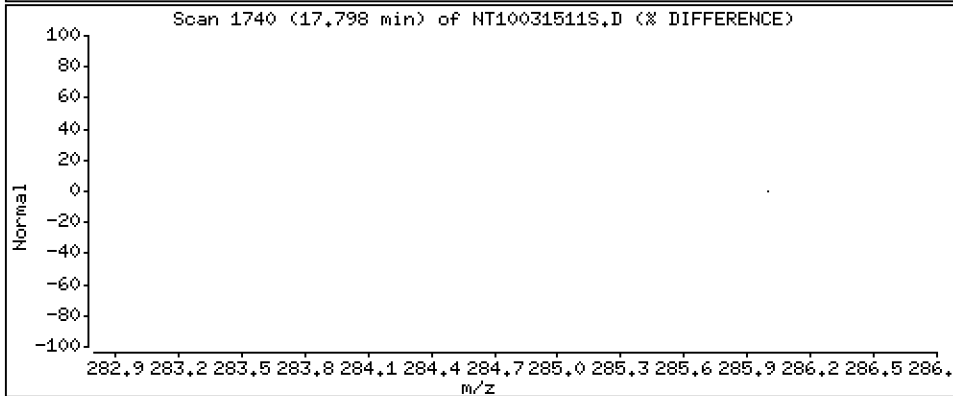
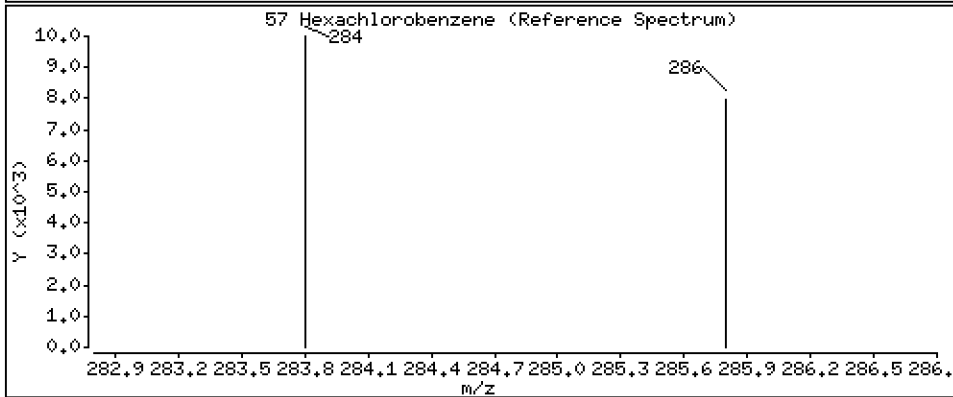
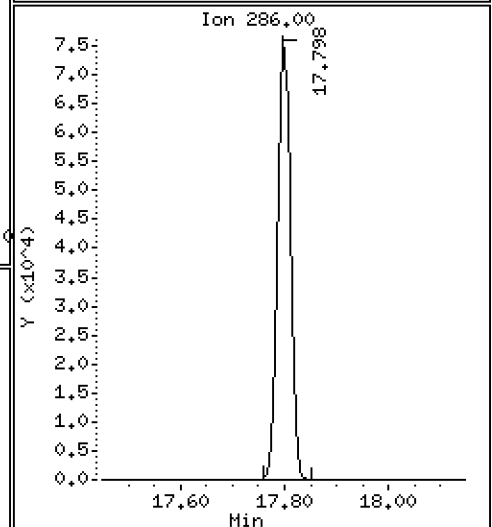
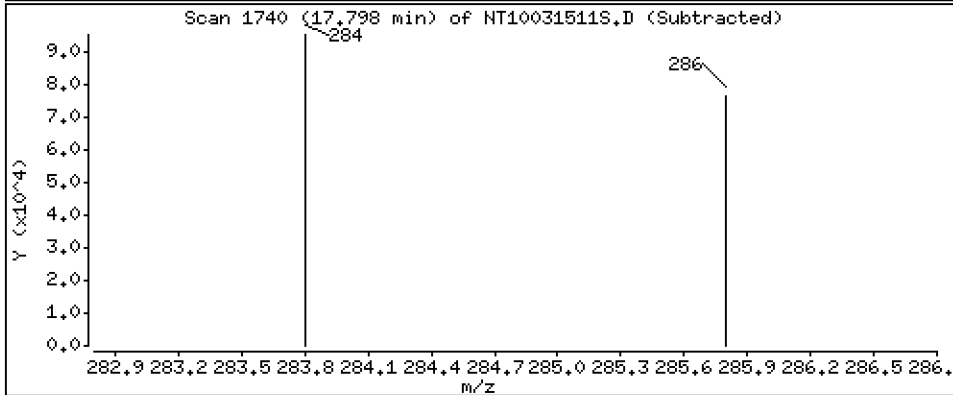
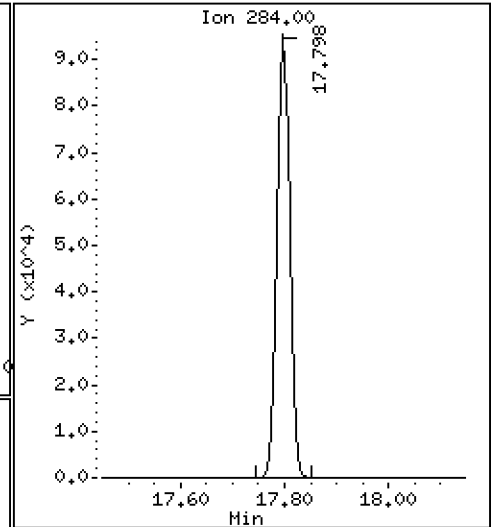
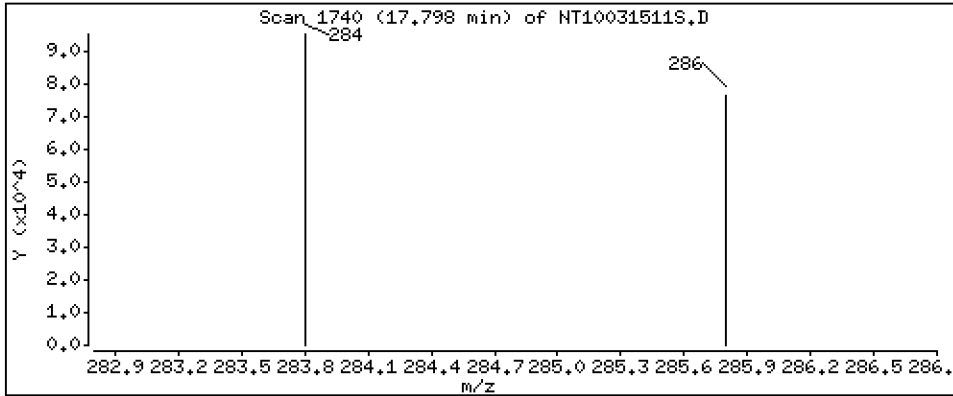
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

57 Hexachlorobenzene

Concentration: 4,614 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

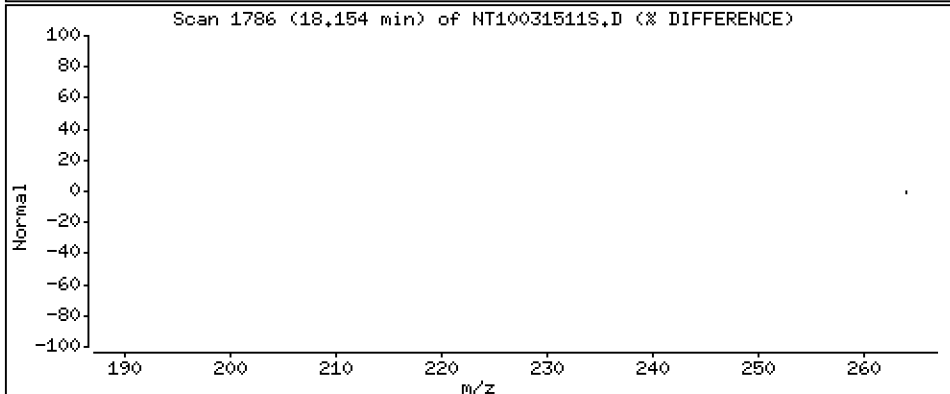
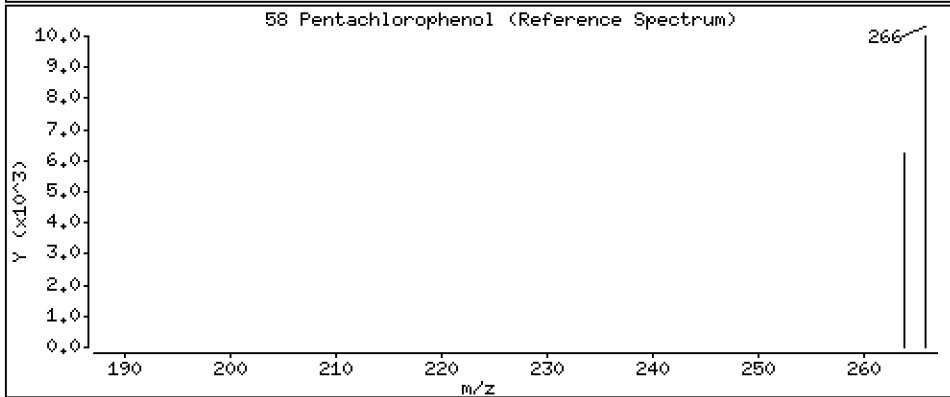
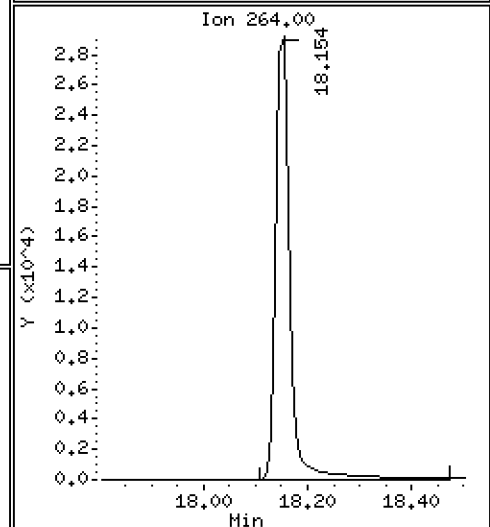
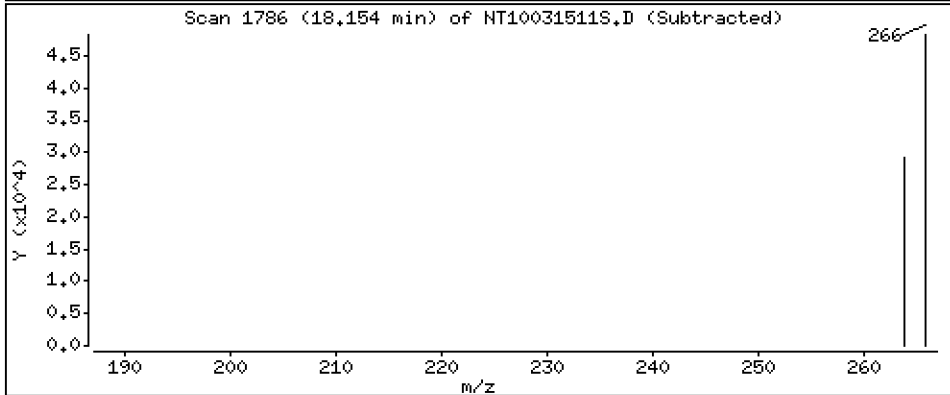
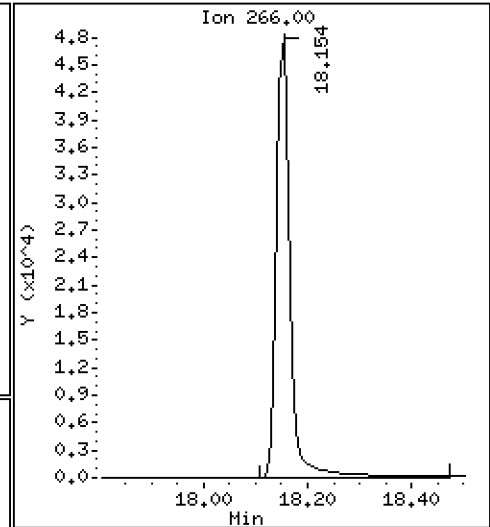
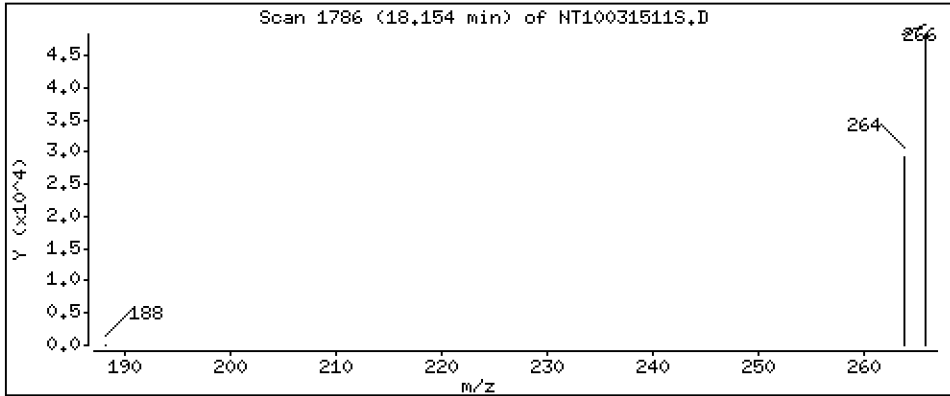
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 4,418 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

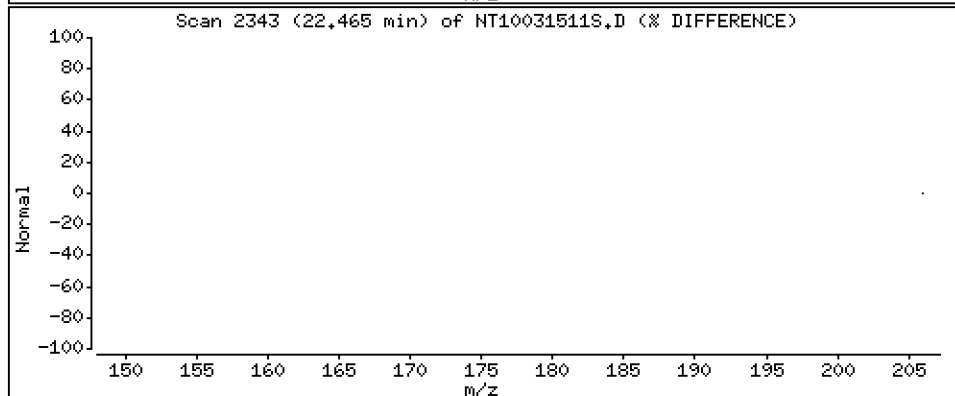
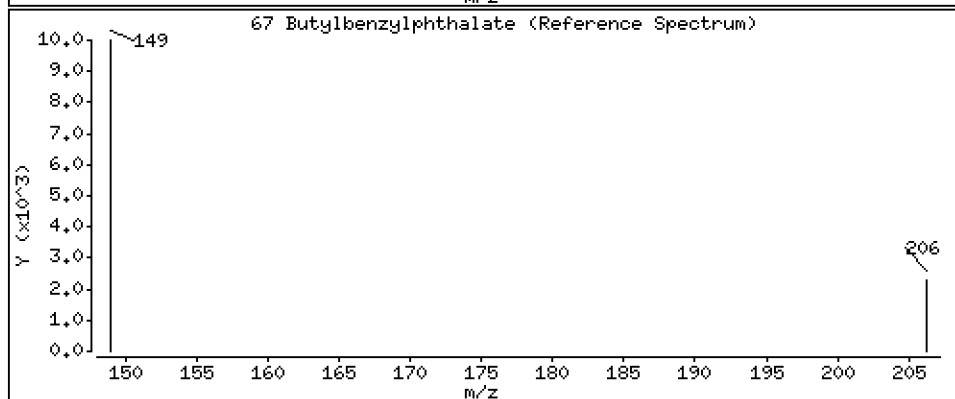
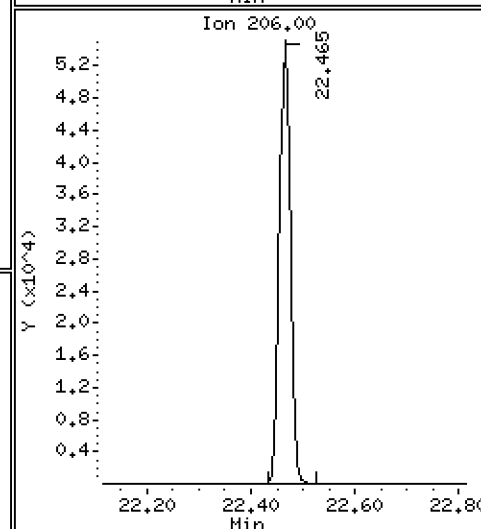
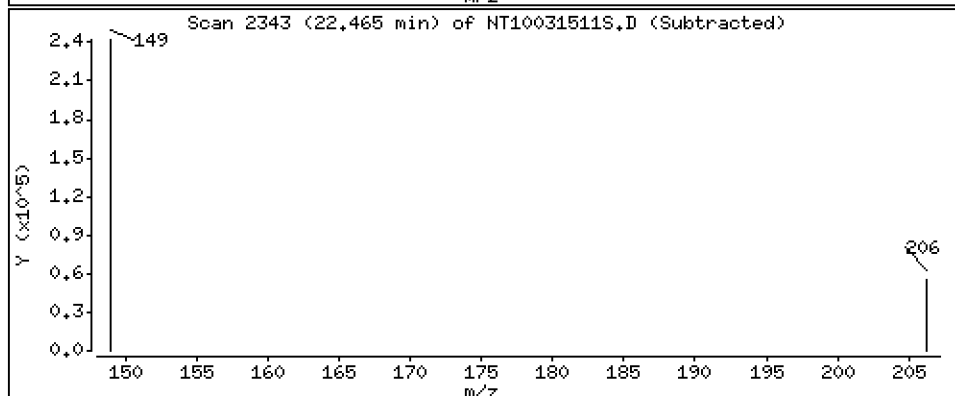
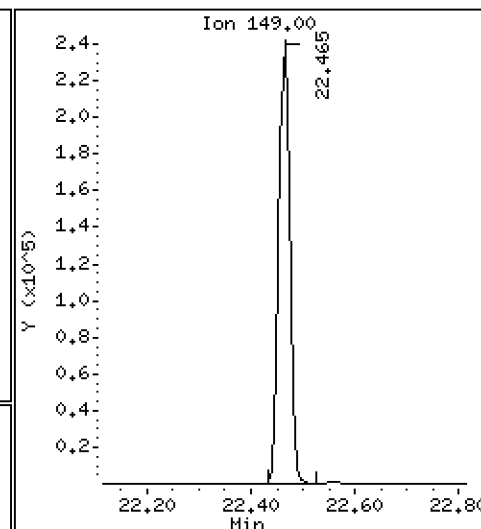
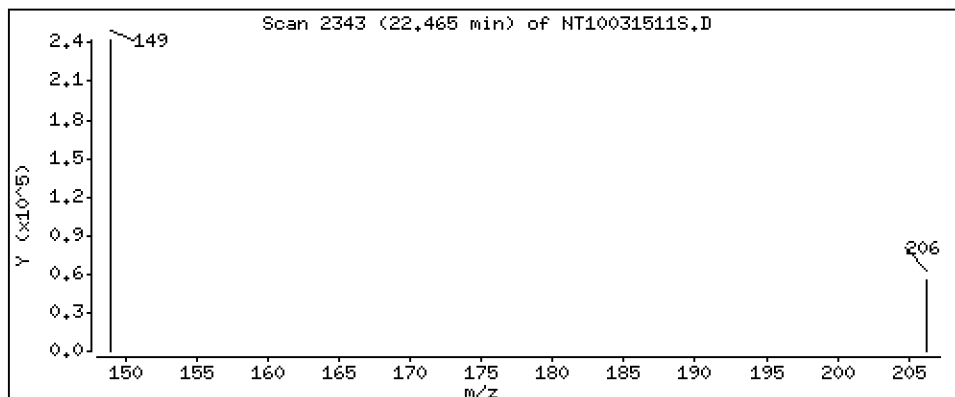
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 5,121 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

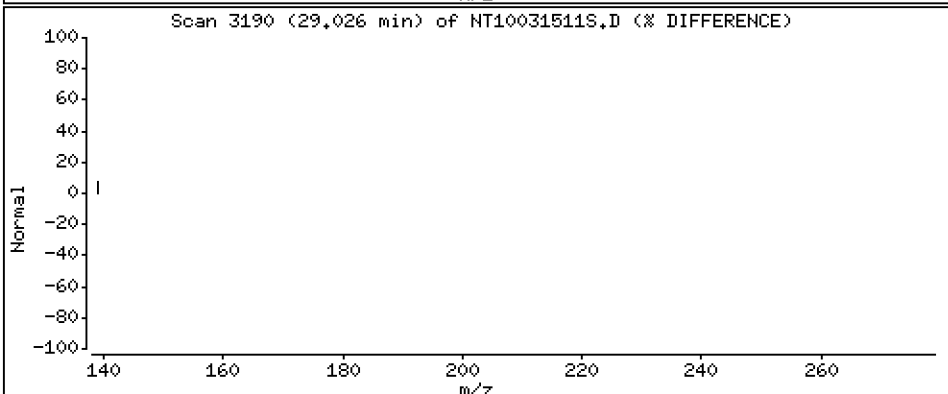
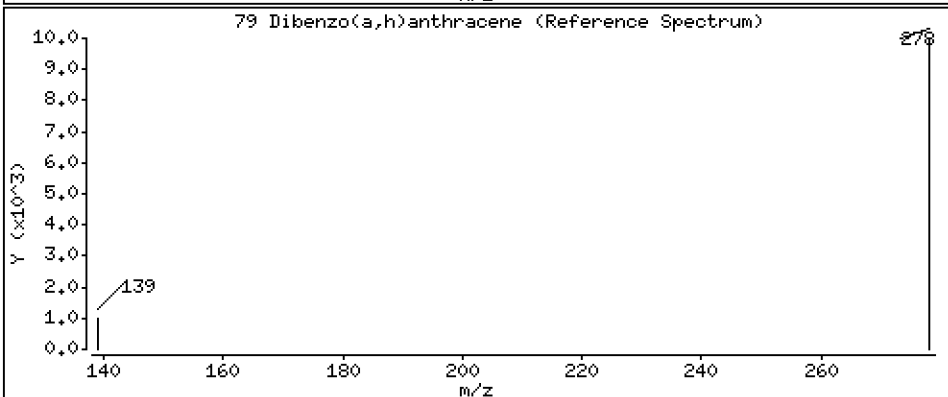
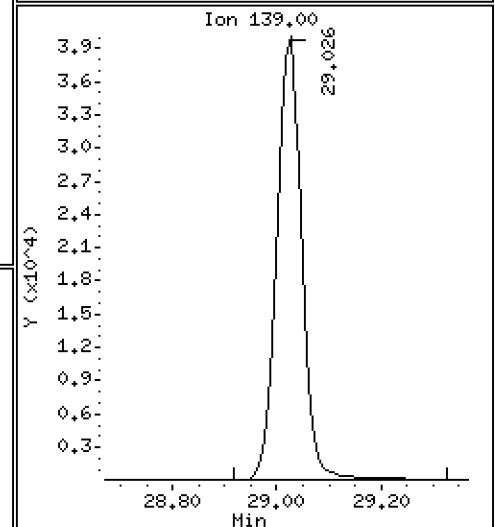
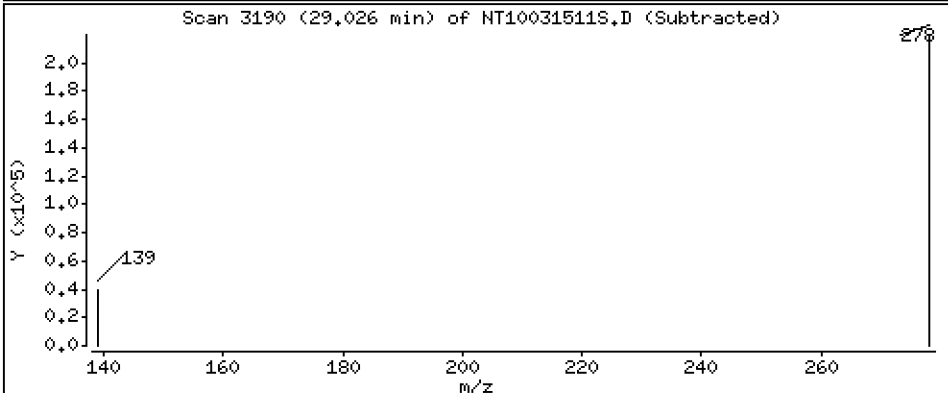
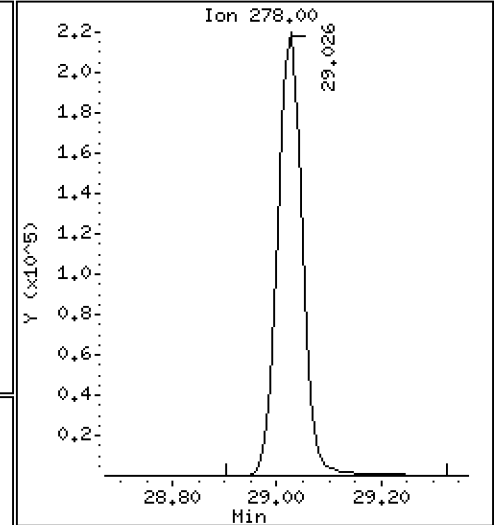
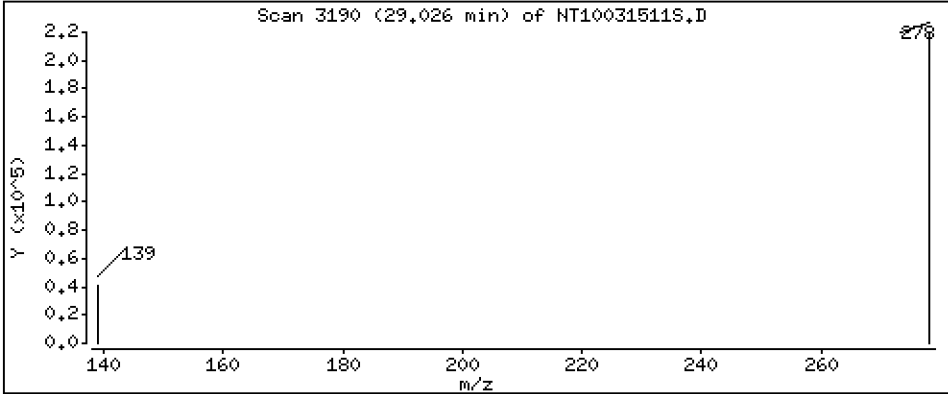
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 4,238 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

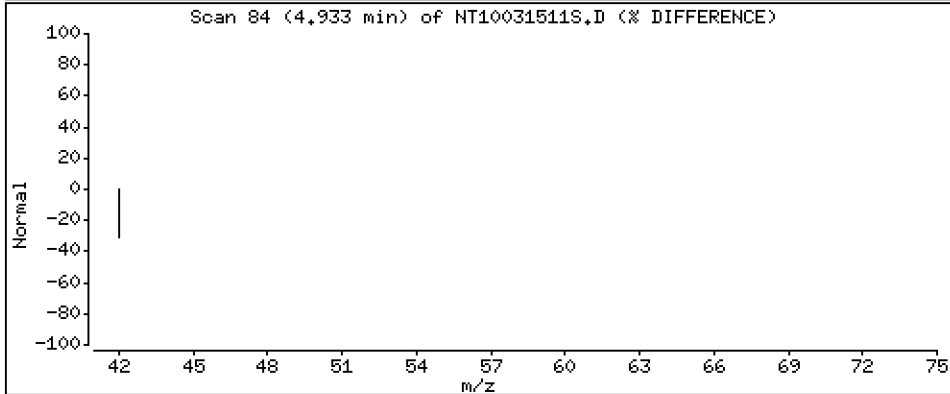
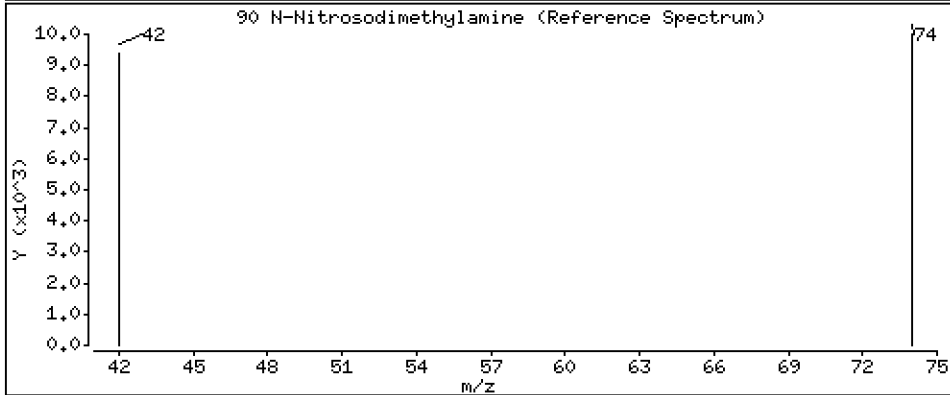
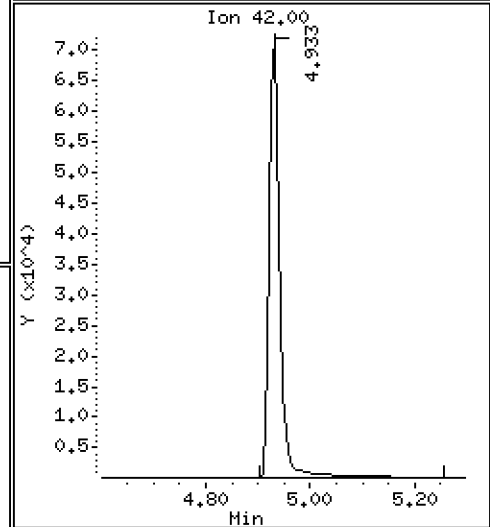
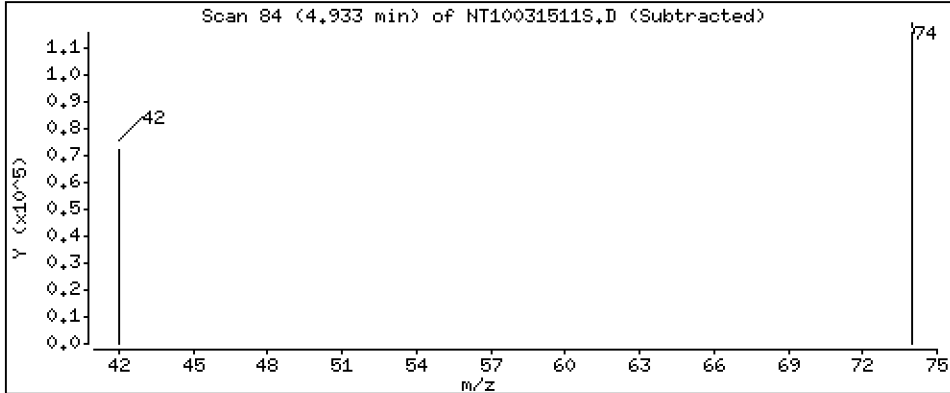
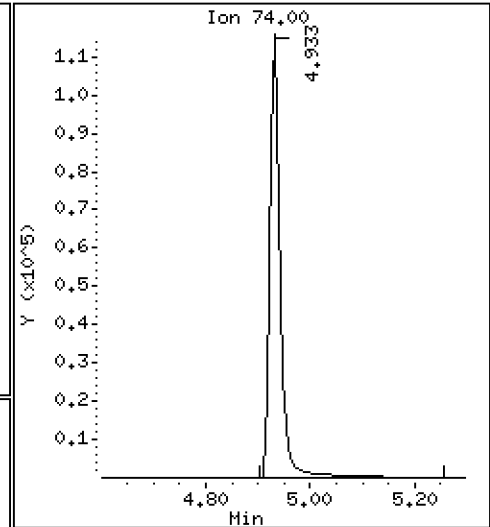
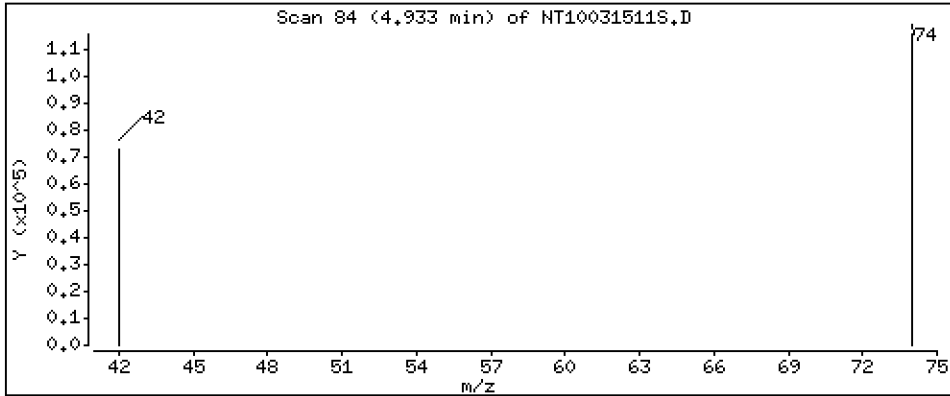
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

90 N-Nitrosodimethylamine

Concentration: 5.096 ug/L



ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D
 Lab Smp Id: SLC0238-SCV1
 Inj Date : 16-MAR-2023 02:16 MS Autotune Date: 16-JAN-2023 17:42
 Operator : JGR Inst ID: nt10.i
 Smp Info : SLC0238-SCV1
 Misc Info :
 Comment :
 Method : \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
 Meth Date : 16-Mar-2023 14:39 van Quant Type: ISTD
 Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D
 Als bottle: 11
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: PSDDA.sub
 Target Version: 4.14
 Processing Host: VANS-201906

Concentration Formula: $Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable$

| Name | Value | Description |
|---------------|----------|---------------------------------|
| DF | 1.000 | Dilution Factor |
| Vo | 1000.000 | Volume of sample extracted (mL) |
| Vt | 1000.000 | Volume of final extract (uL) |
| Vi | 1.000 | Volume injected (uL) |
| Uf | 1.000 | ng unit correction factor |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT | SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|-------------------------------|-------|-----|------------------------|--------|---------|----------|----------------|---------|
| | | | | | | | ON-COLUMN | FINAL |
| | MASS | | | | | | (ug/mL) | (ug/L) |
| \$ 1 2-Fluorophenol | 112 | | Compound Not Detected. | | | | | |
| 3 Phenol | 94 | | 8.664 | 8.664 | (0.931) | 303581 | 4.37299 | 4.373 |
| 7 1,3-Dichlorobenzene | 146 | | 9.236 | 9.236 | (0.992) | 301605 | 4.64290 | 4.643 |
| * 8 1,4-Dichlorobenzene-d4 | 152 | | 9.306 | 9.298 | (1.000) | 166866 | 4.00000 | |
| 9 1,4-Dichlorobenzene | 146 | | 9.329 | 9.329 | (1.002) | 303390 | 4.83813 | 4.838 |
| 11 Benzyl alcohol | 79 | | 9.562 | 9.570 | (1.028) | 208505 | 5.18071 | 5.181 |
| 12 1,2-Dichlorobenzene | 146 | | 9.686 | 9.686 | (1.041) | 288539 | 4.67875 | 4.679 |
| 13 2-Methylphenol | 108 | | 9.772 | 9.772 | (1.050) | 201888 | 4.19698 | 4.197 |
| 15 4-Methylphenol | 108 | | 10.043 | 10.036 | (1.079) | 223083 | 4.46301 | 4.463 |
| 16 N-Nitroso-di-n-propylamine | 70 | | 10.121 | 10.113 | (1.088) | 186707 | 5.28174 | 5.282 |
| 22 2,4-Dimethylphenol | 107 | | 11.086 | 11.087 | (0.942) | 193654 | 3.66015 | 3.660 |
| 24 Benzoic acid | 105 | | 11.214 | 11.189 | (0.952) | 200487 | 6.74612 | 6.746 |
| 26 1,2,4-Trichlorobenzene | 180 | | 11.690 | 11.690 | (0.993) | 236605 | 4.44540 | 4.445 |
| * 27 Naphthalene-d8 | 136 | | 11.775 | 11.775 | (1.000) | 612104 | 4.00000 | |
| 30 Hexachlorobutadiene | 225 | | 12.169 | 12.169 | (1.033) | 150581 | 4.65339 | 4.653 |
| 39 Dimethylphthalate | 163 | | 14.877 | 14.877 | (0.967) | 472341 | 4.94766 | 4.948 |
| * 42 Acenaphthene-d10 | 162 | | 15.388 | 15.380 | (1.000) | 302524 | 4.00000 | |
| 50 Diethylphthalate | 149 | | 16.331 | 16.324 | (1.061) | 530540 | 5.36440 | 5.364 |
| 54 N-Nitrosodiphenylamine | 169 | | 16.725 | 16.717 | (0.908) | 377357 | 5.08034 | 5.080 |
| 57 Hexachlorobenzene | 284 | | 17.798 | 17.798 | (0.966) | 153405 | 4.61353 | 4.614 |

| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|---------------------------|-----------|--------|--------|---------|----------|----------------------|------------------|
| | | | | | | ON-COLUMN (ug/mL) | FINAL (ug/L) |
| 58 Pentachlorophenol | 266 | 18.154 | 18.154 | (0.985) | 83223 | 4.41780 | 4.418 |
| * 59 Phenanthrene-d10 | 188 | 18.425 | 18.417 | (1.000) | 553619 | 4.00000 | |
| \$ 66 Terphenyl-d14 | 244 | 21.543 | 21.543 | (0.918) | 117 | 0.00154 | 0.001543 (RM) |
| 67 Butylbenzylphthalate | 149 | 22.464 | 22.465 | (0.958) | 332887 | 5.12147 | 5.121 |
| * 69 Chrysene-d12 | 240 | 23.455 | 23.455 | (1.000) | 465428 | 4.00000 | |
| * 77 Perylene-d12 | 264 | 26.188 | 26.188 | (1.000) | 532593 | 4.00000 | |
| 79 Dibenzo(a,h)anthracene | 278 | 29.026 | 29.019 | (1.108) | 722983 | 4.23762 | 4.238 |
| 90 N-Nitrosodimethylamine | 74 | 4.933 | 4.948 | (0.530) | 163555 | 5.09625 | 5.096 |

QC Flag Legend

- R - Spike/Surrogate failed recovery limits.
- M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i
 Lab File ID: NT10031511S.D
 Lab Smp Id: SLC0238-SCV1
 Analysis Type: SV
 Quant Type: ISTD
 Operator: JGR
 Method File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
 Misc Info:

Calibration Date: 15-MAR-2023
 Calibration Time: 23:06
 Level: LOW
 Sample Type: AIR

Test Mode:
 Use Last Continuing Calibrator.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|------------|---------|--------|--------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 188081 | 94041 | 376162 | 166866 | -11.28 |
| 27 Naphthalene-d8 | 674549 | 337275 | 1349098 | 612104 | -9.26 |
| 42 Acenaphthene-d10 | 328275 | 164138 | 656550 | 302524 | -7.84 |
| 59 Phenanthrene-d10 | 597140 | 298570 | 1194280 | 553619 | -7.29 |
| 69 Chrysene-d12 | 466503 | 233252 | 933006 | 465428 | -0.23 |
| 77 Perylene-d12 | 518203 | 259102 | 1036406 | 532593 | 2.78 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 9.30 | 8.80 | 9.80 | 9.31 | 0.08 |
| 27 Naphthalene-d8 | 11.77 | 11.27 | 12.27 | 11.78 | 0.01 |
| 42 Acenaphthene-d10 | 15.39 | 14.89 | 15.89 | 15.39 | 0.01 |
| 59 Phenanthrene-d10 | 18.42 | 17.92 | 18.92 | 18.43 | 0.00 |
| 69 Chrysene-d12 | 23.45 | 22.95 | 23.95 | 23.46 | 0.00 |
| 77 Perylene-d12 | 26.19 | 25.69 | 26.69 | 26.19 | 0.00 |

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

REVIEW SUMMARY FOR FILE - NT10031511S.D

Lab ID: SLC0238-SCV1

nt10.i, 20230315.b\20230315.b\SIMABN2.m,

16-MAR-2023 02:16

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT | CCV | RRT | DELTA | COMPOUND |
|-------|-------|--------|-------|--------------|
| 0.952 | 0.000 | 0.9524 | | Benzoic acid |

RRT check based on Ccal File: 20230315.b/NT10031510S.D

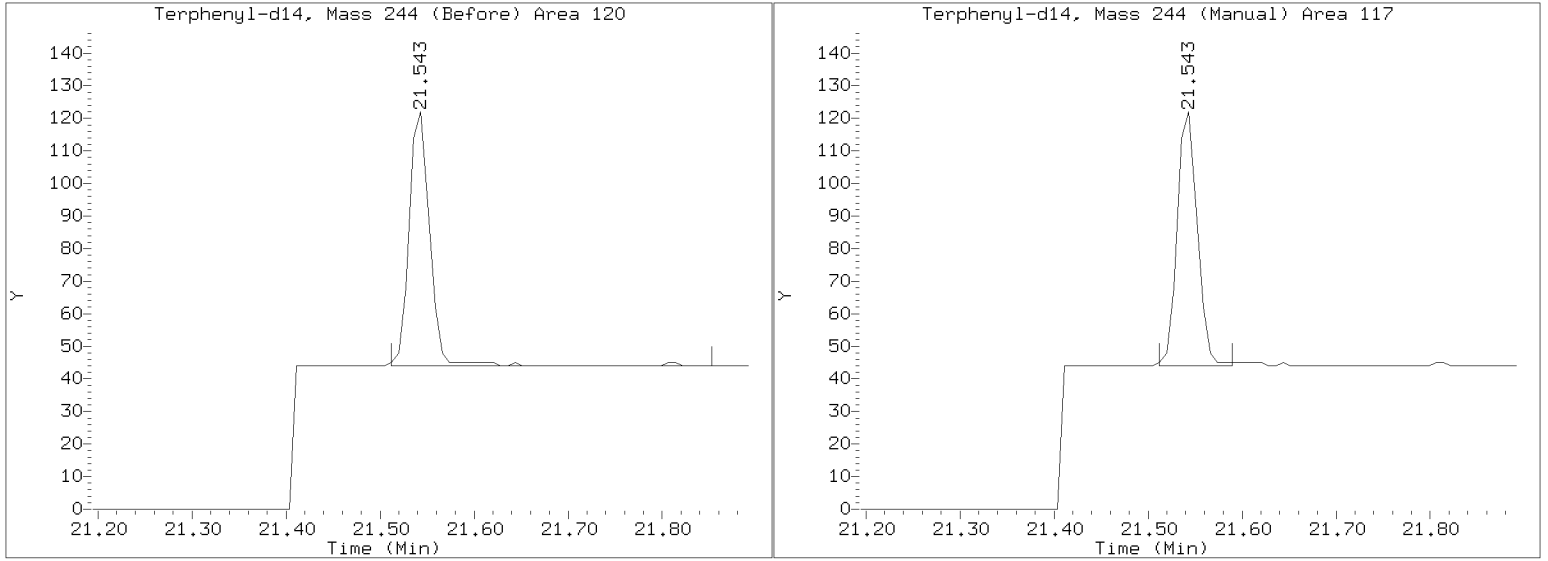
On Column LOD for nt10.i, 20230315.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230315.b/20230315.b/NT10031511S.D
Injection Date: 16-MAR-2023 02:16
Lab ID: SLC0238-SCV1 Client ID:
Report Date: 03/16/2023 14:49





SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8270E-SIM

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Calibration: GC00049

Laboratory ID: SLC0238-SCV1

Sequence: SLC0238

Standard ID: K010066

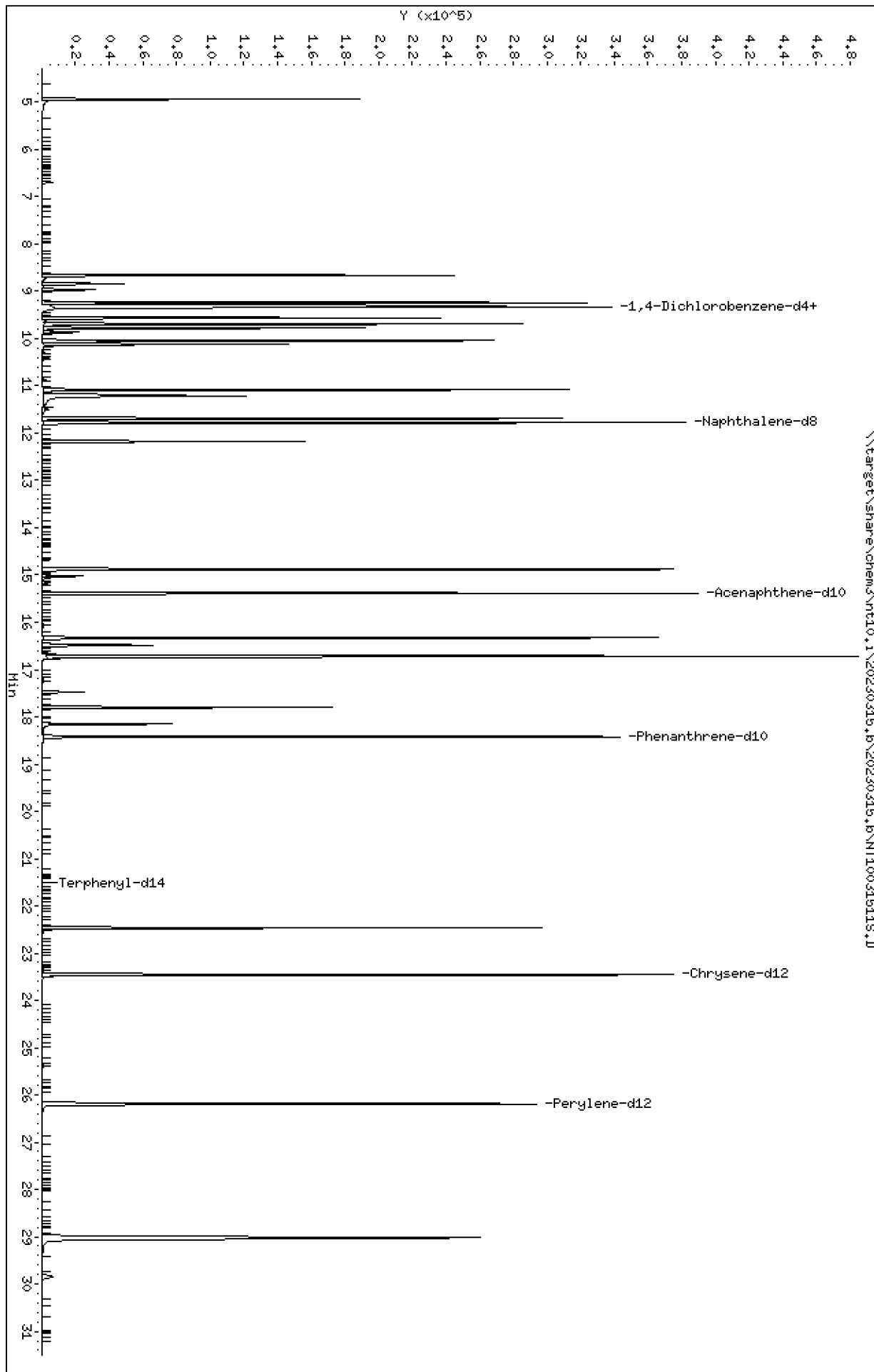
| ANALYTE | EXPECTED (ug/mL) | FOUND (ug/mL) | % DRIFT | QC LIMIT |
|------------------------|---------------------|------------------|---------|----------|
| 1,4-Dichlorobenzene | 5.0000 | 4.8 | -3.2 | 20.00 |
| 1,2-Dichlorobenzene | 5.0000 | 4.7 | -6.4 | 20.00 |
| Benzyl Alcohol | 5.0000 | 5.2 | 3.6 | 20.00 |
| Benzoic acid | 10.000 | 6.7 | -32.5 * | 20.00 |
| 2,4-Dimethylphenol | 5.0000 | 3.7 | -26.8 * | 20.00 |
| 1,2,4-Trichlorobenzene | 5.0000 | 4.4 | -11.1 | 20.00 |
| N-Nitrosodiphenylamine | 5.0000 | 5.1 | 1.6 | 20.00 |
| Pentachlorophenol | 5.0000 | 4.4 | -11.6 | 20.00 |
| 2-Fluorophenol | 7.5000 | 0.00 | | |
| p-Terphenyl-d14 | 5.0000 | 0.00154 | -100 | |

* Values outside of QC limits

Data File: \\target\share\chem3\nt10.1\20230315.1\20230315.1\NT100315115.D
Date: 16-MAR-2023 02:16
Client ID:
Sample Info: SLC0238-SCV1
Volume Injected (uL): 1.0
Column phase: ZB-5msi

Instrument: nt10.1
Operator: JGR
Column diameter: 0.25

\\target\share\chem3\nt10.1\20230315.1\20230315.1\NT100315115.D



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

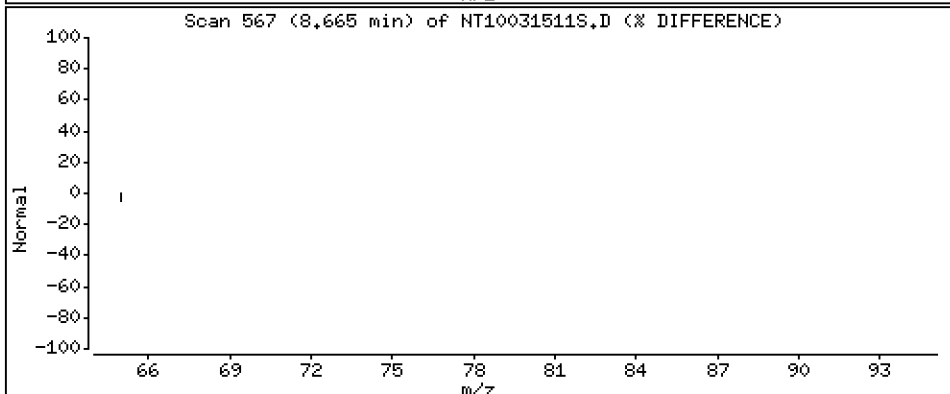
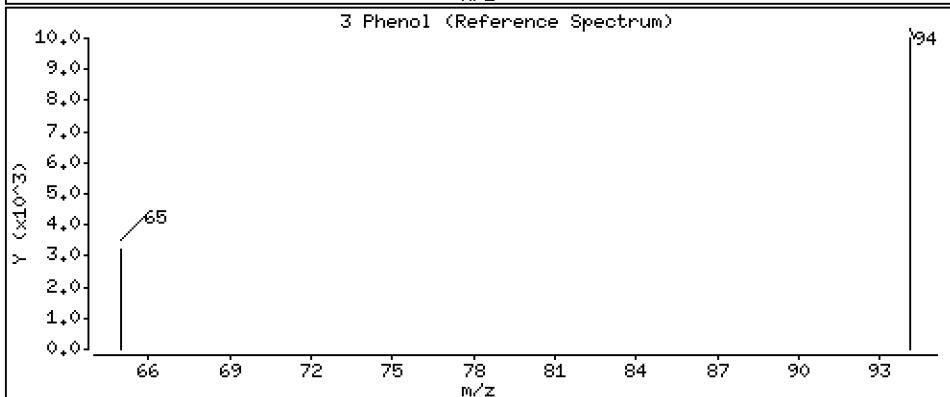
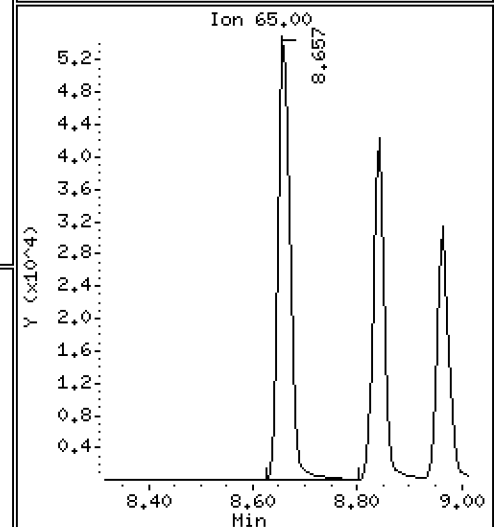
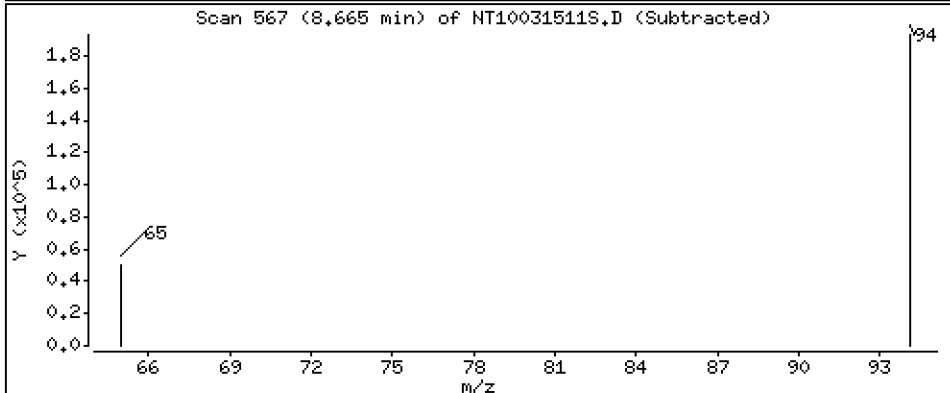
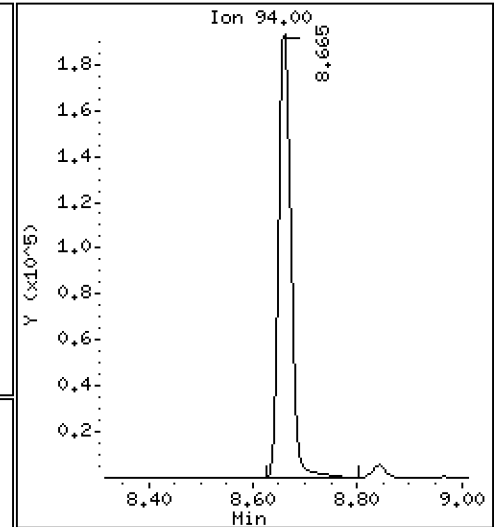
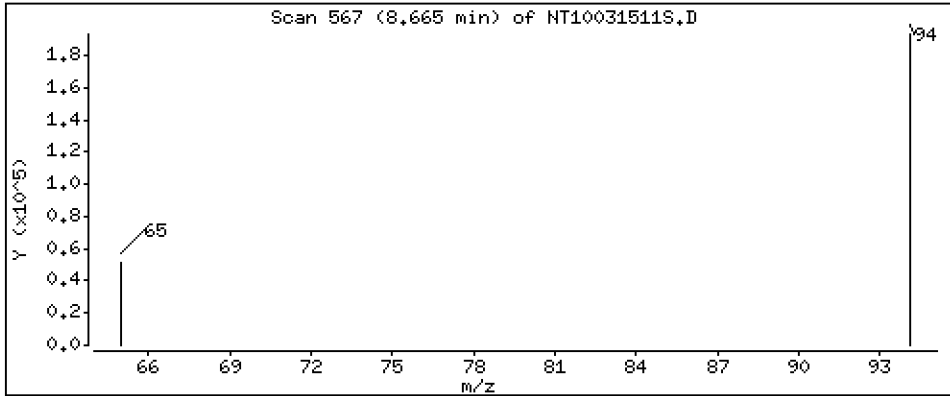
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

3 Phenol

Concentration: 4.373 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

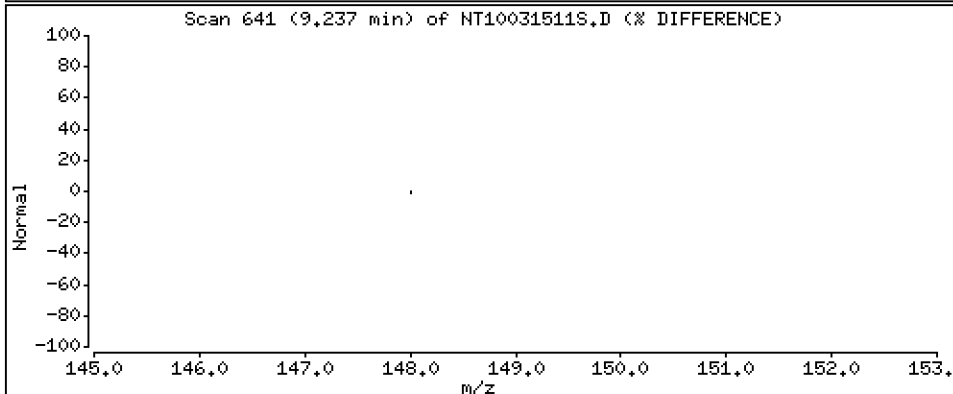
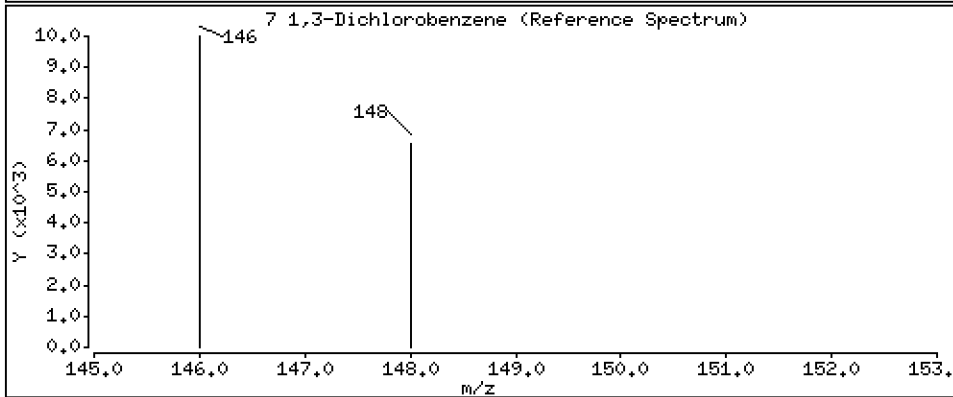
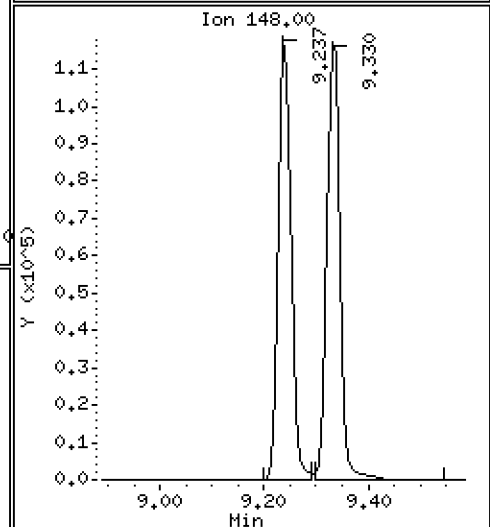
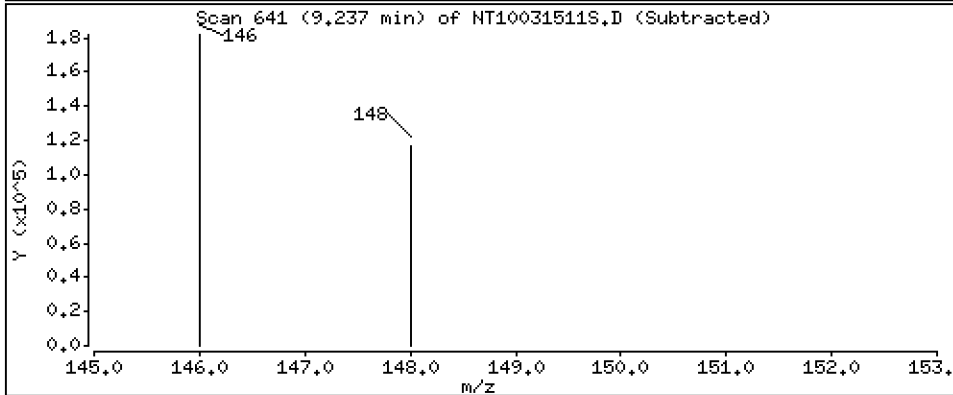
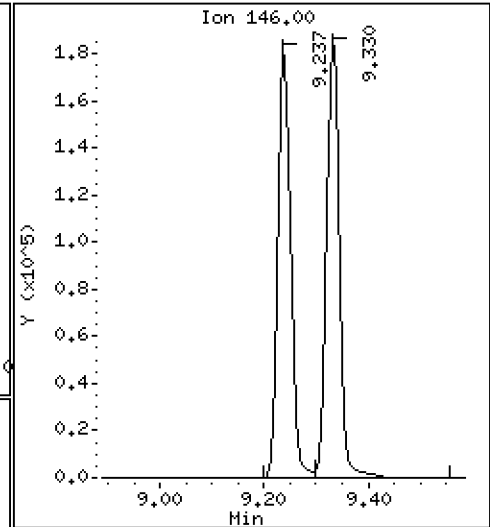
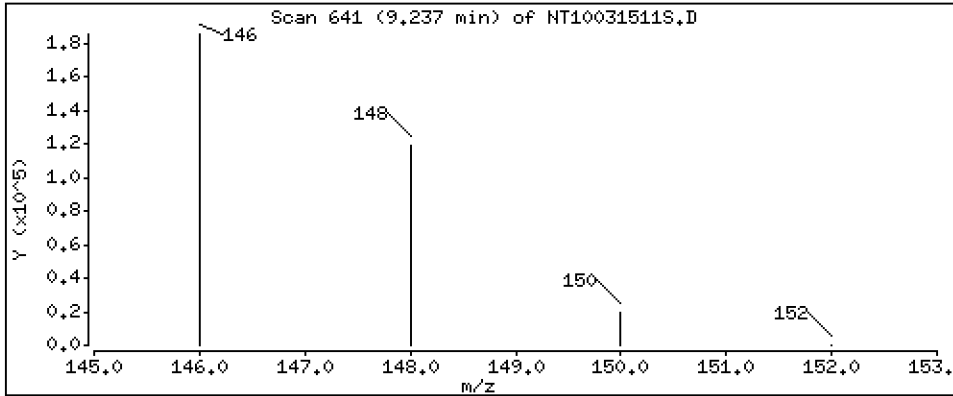
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

7 1,3-Dichlorobenzene

Concentration: 4.643 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

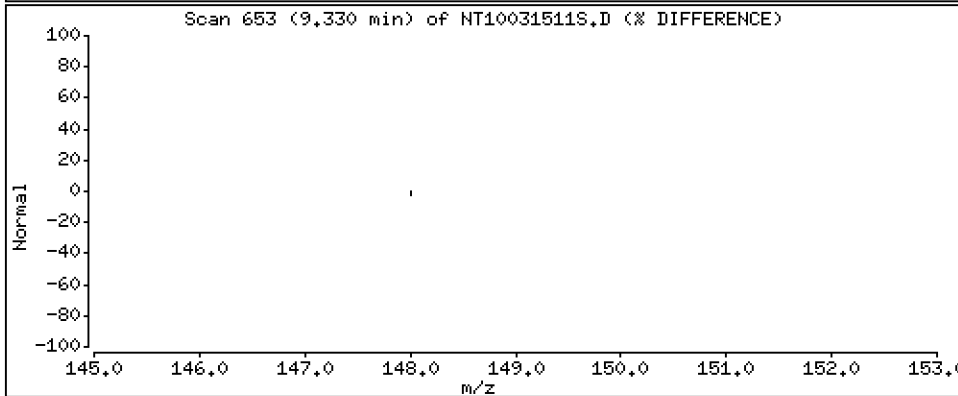
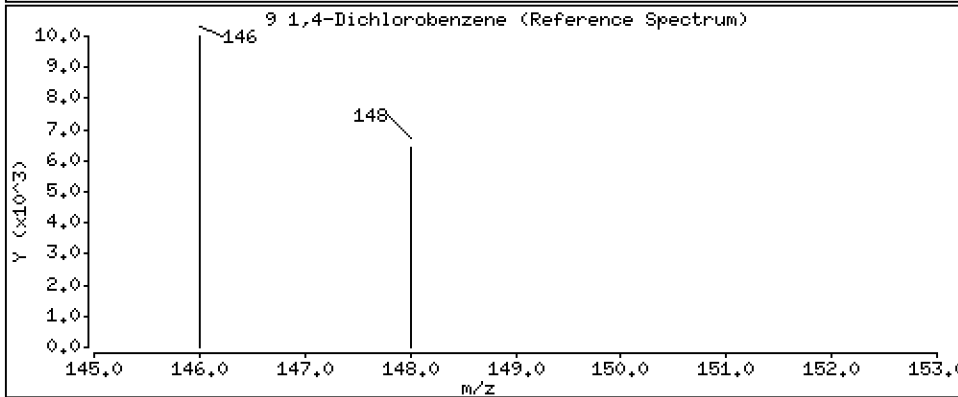
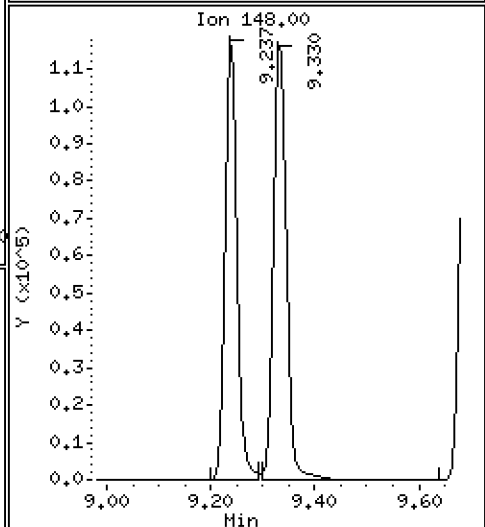
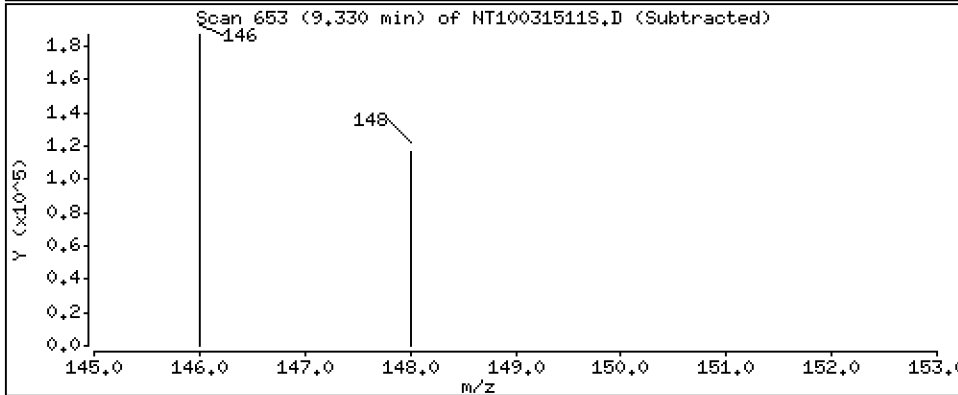
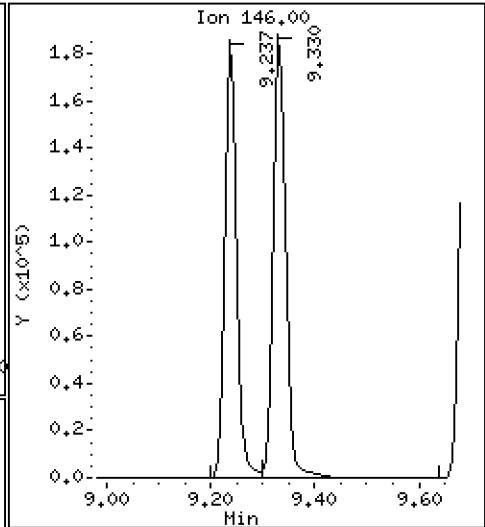
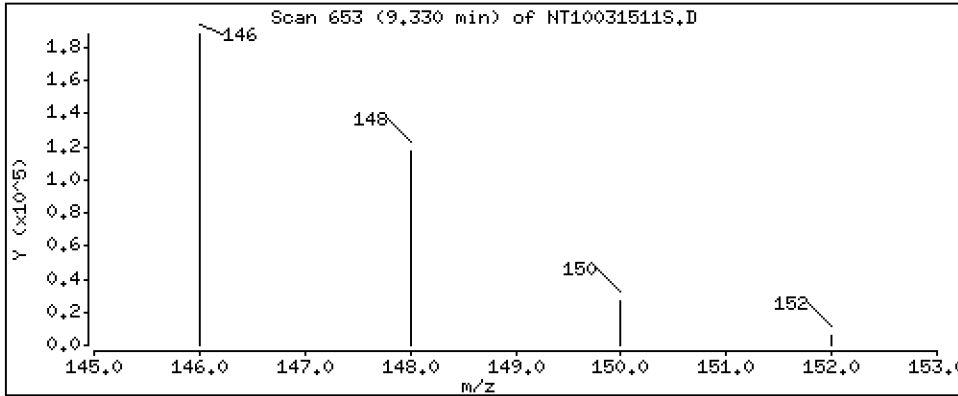
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

9 1,4-Dichlorobenzene

Concentration: 4.838 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

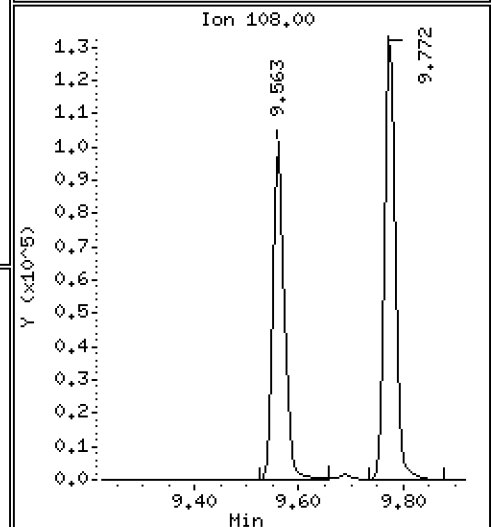
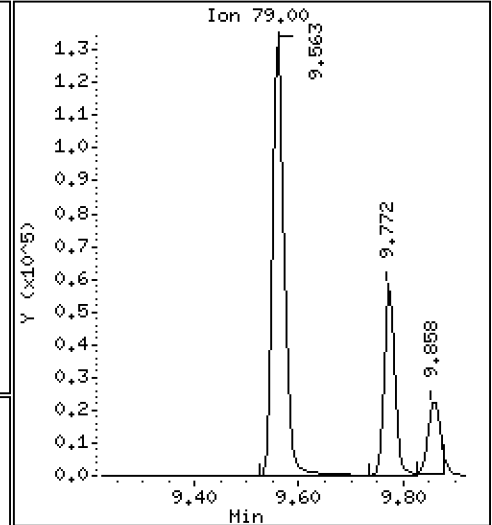
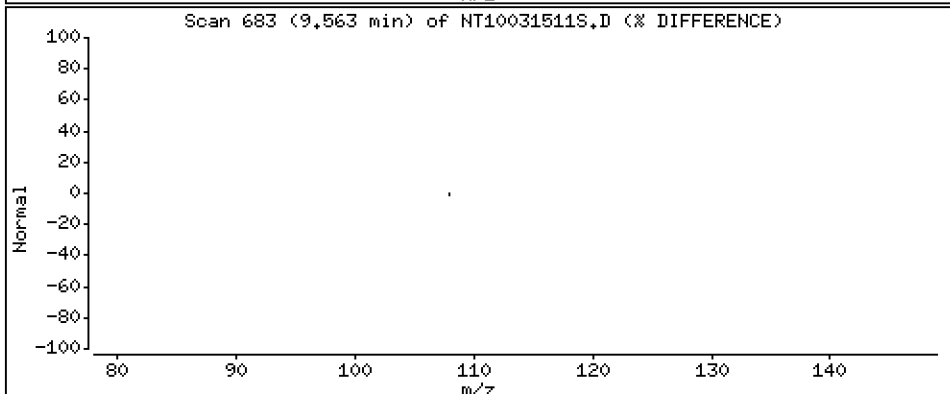
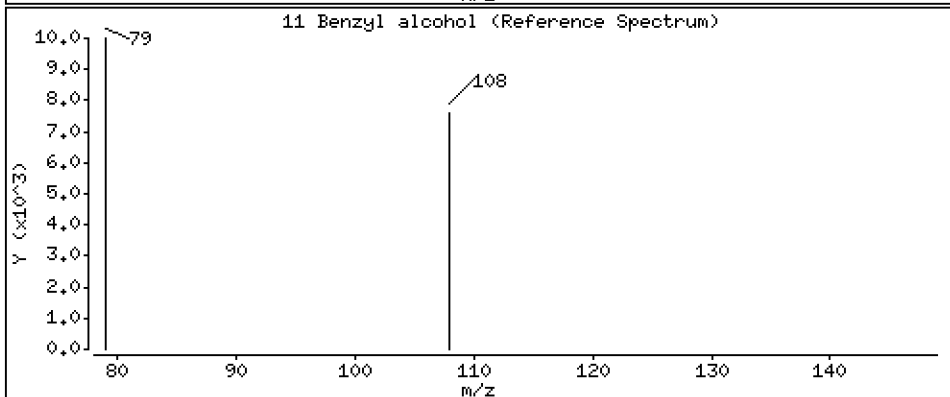
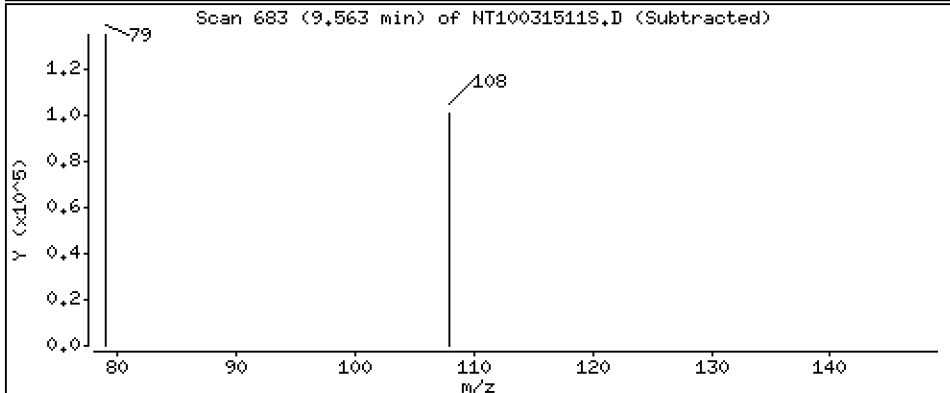
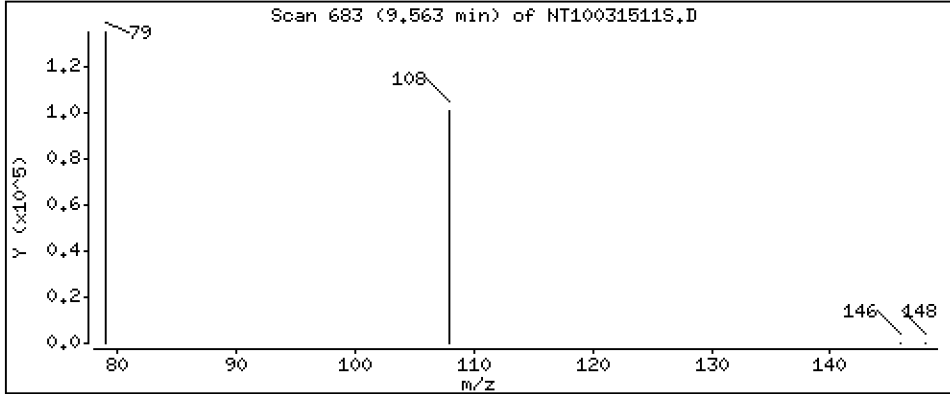
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 5.181 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

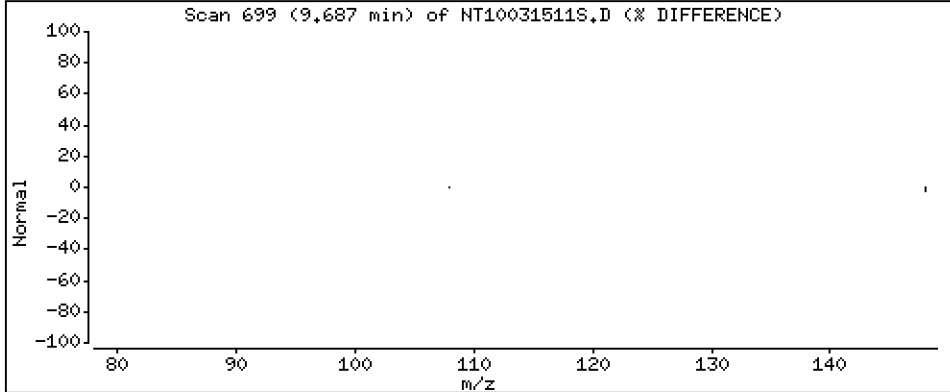
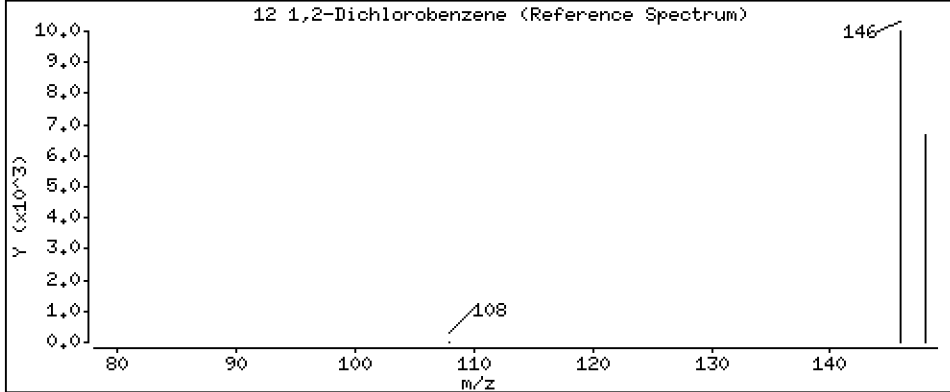
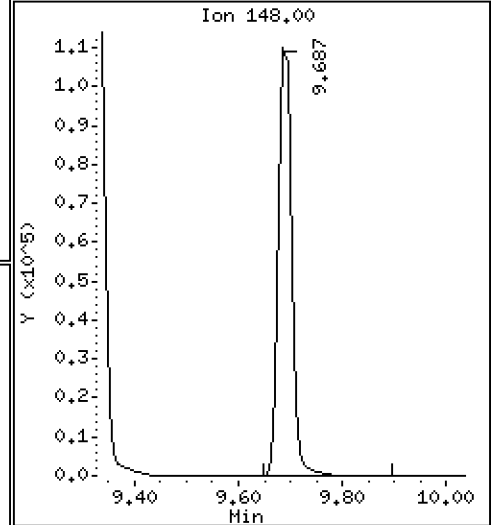
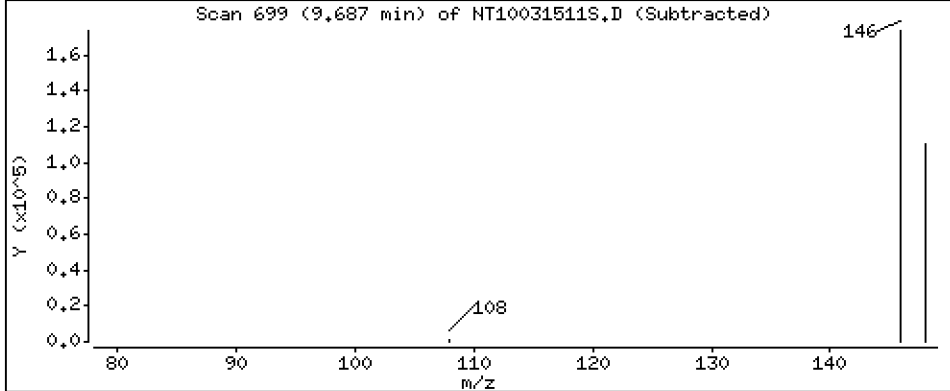
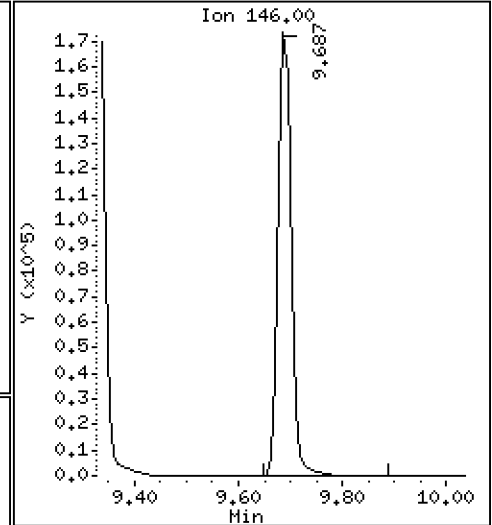
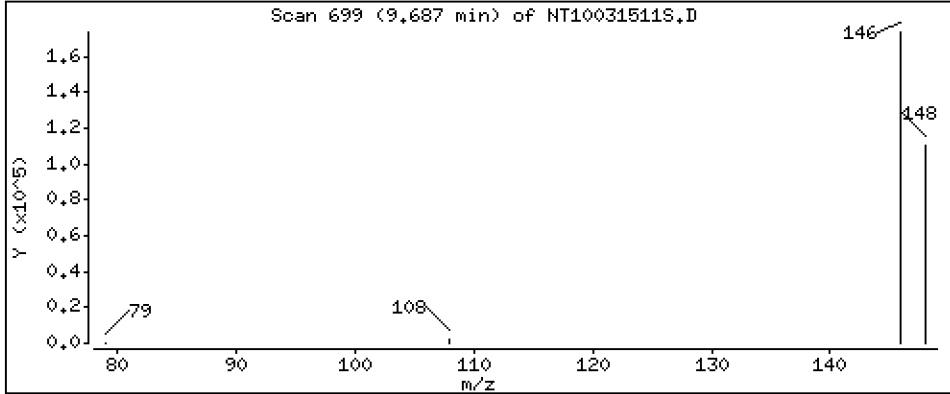
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

12 1,2-Dichlorobenzene

Concentration: 4.679 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

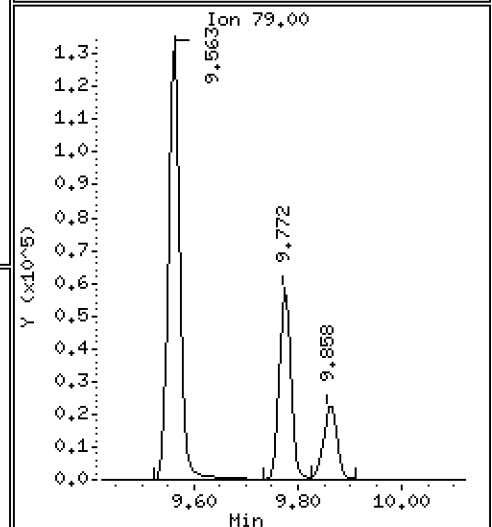
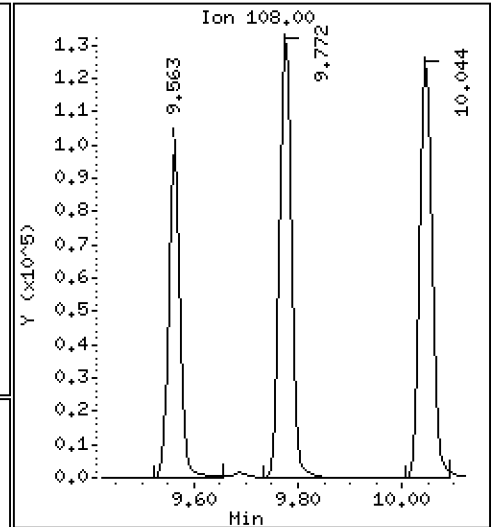
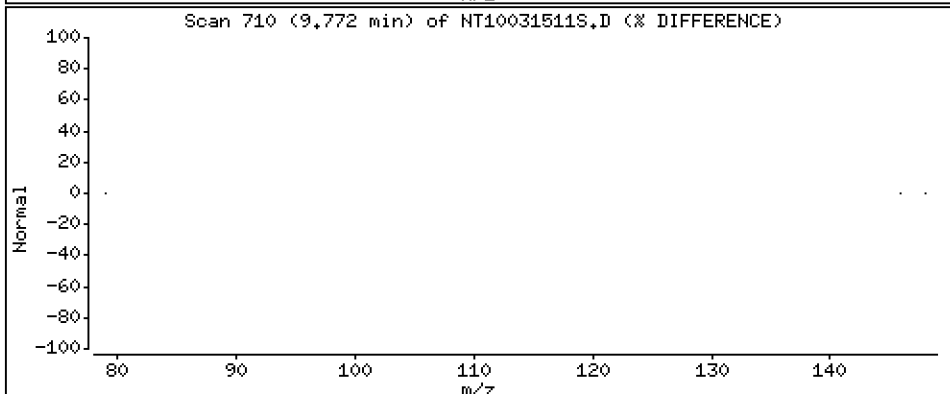
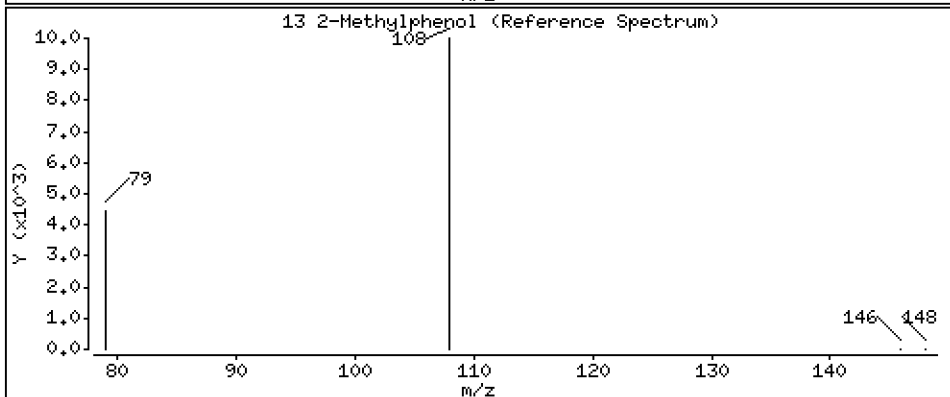
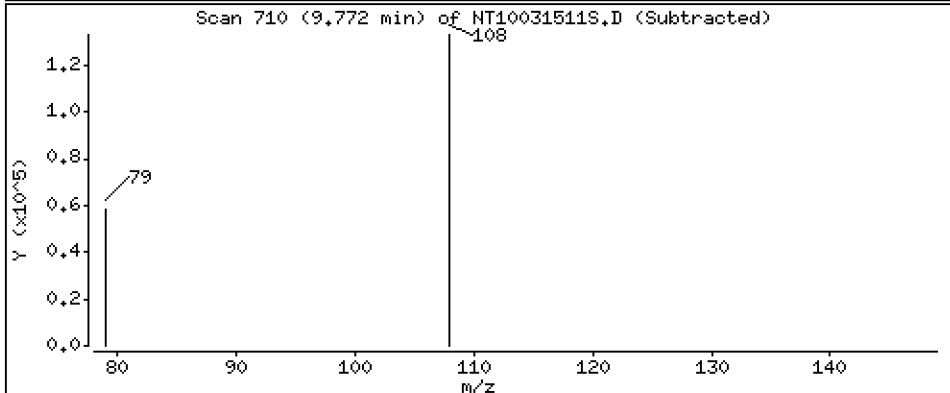
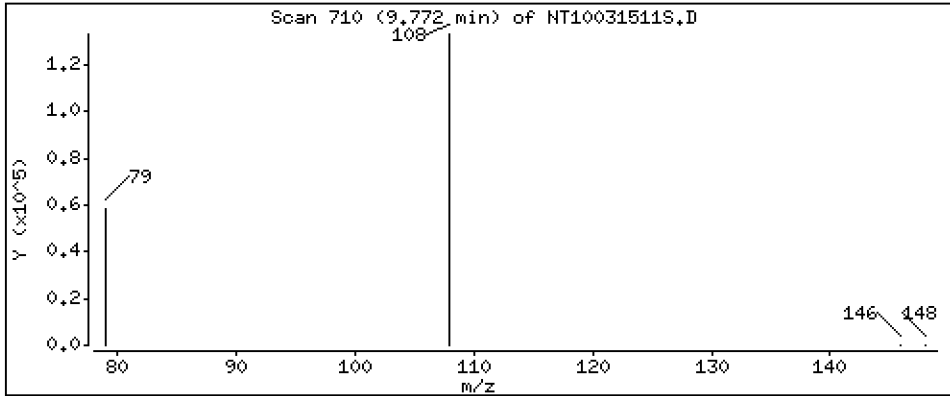
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

13 2-Methylphenol

Concentration: 4.197 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

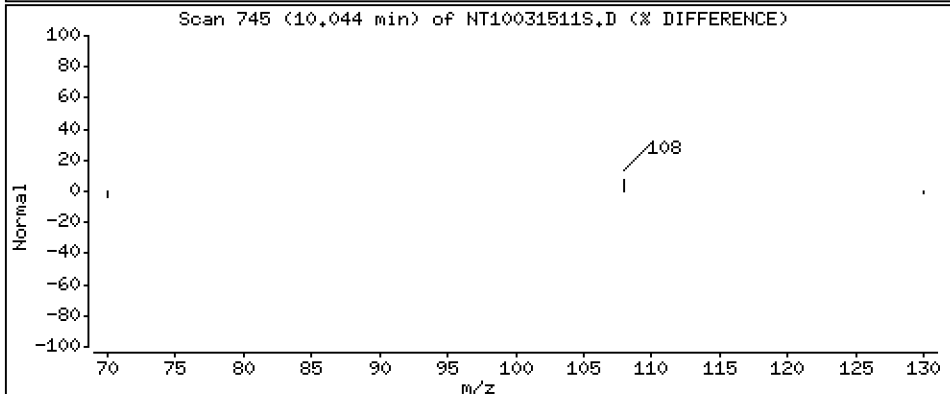
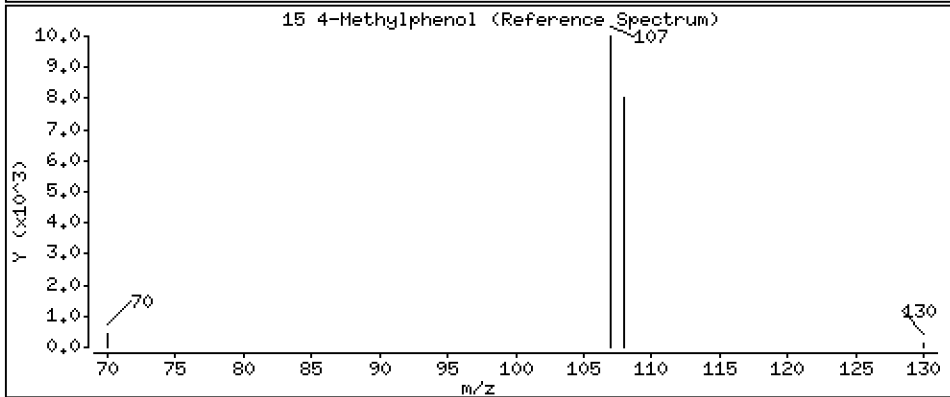
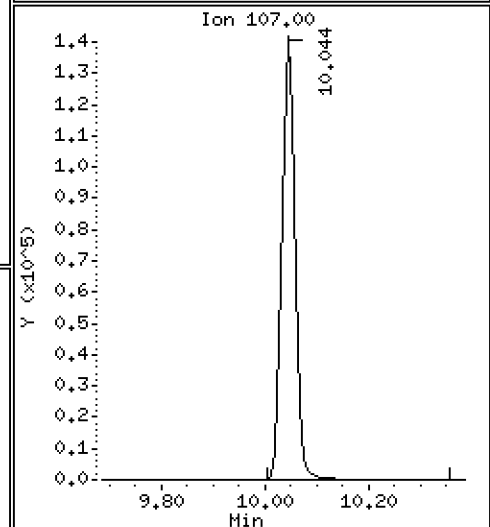
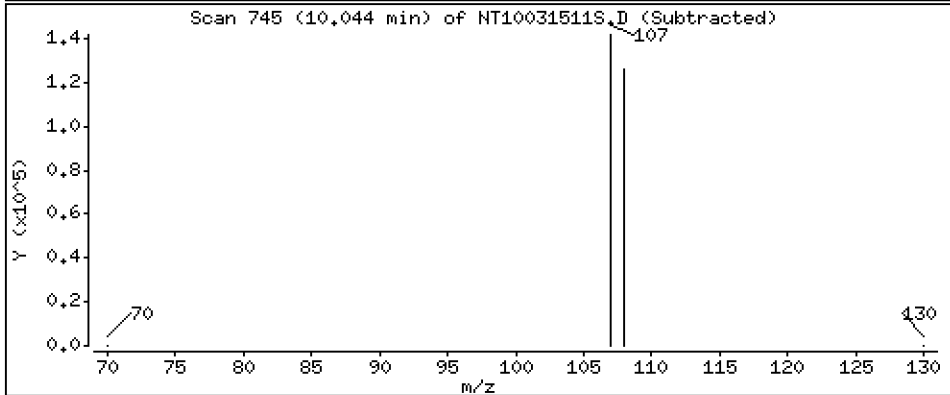
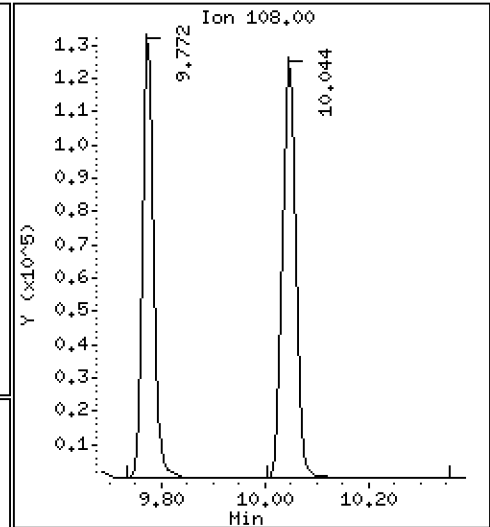
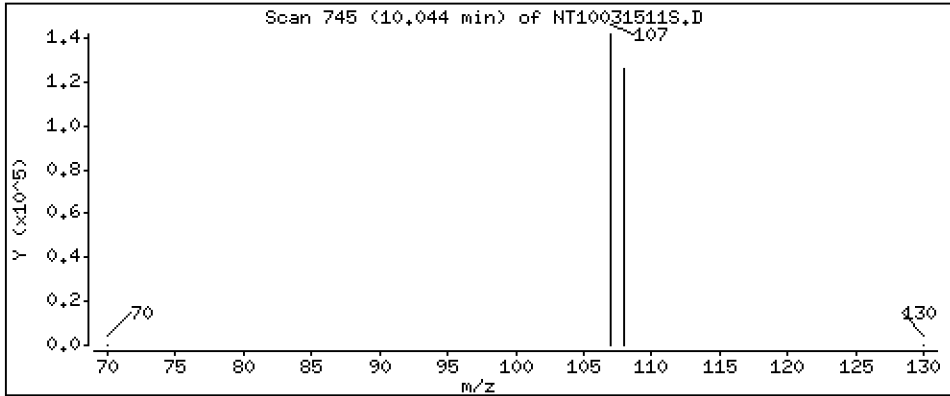
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 4.463 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

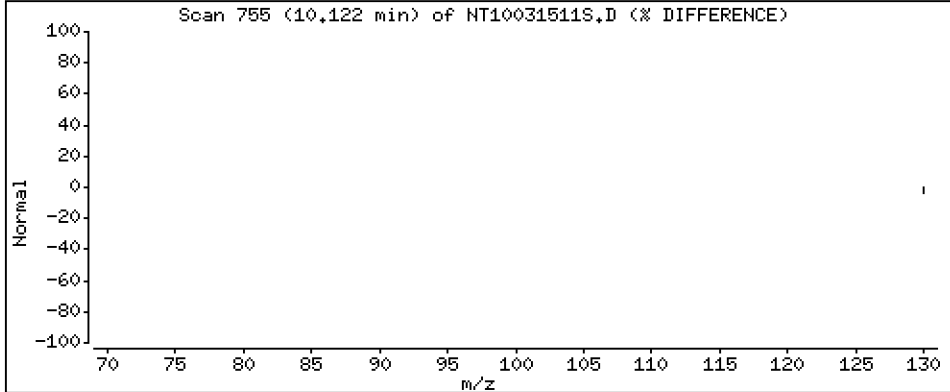
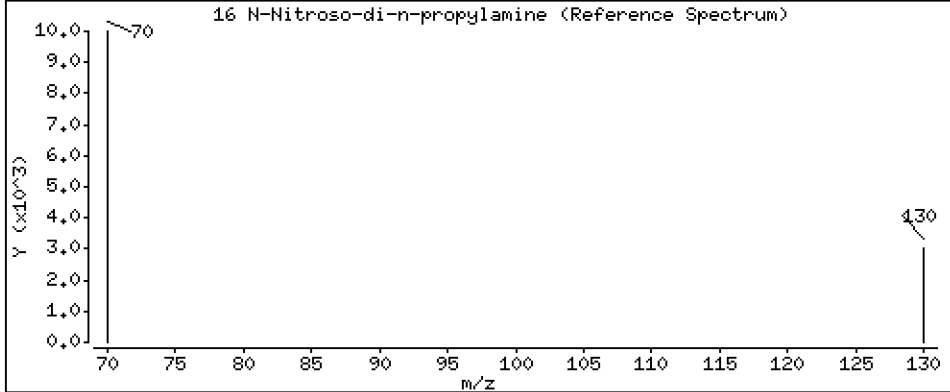
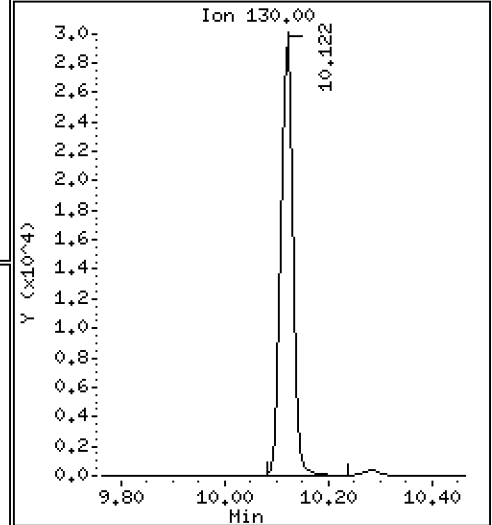
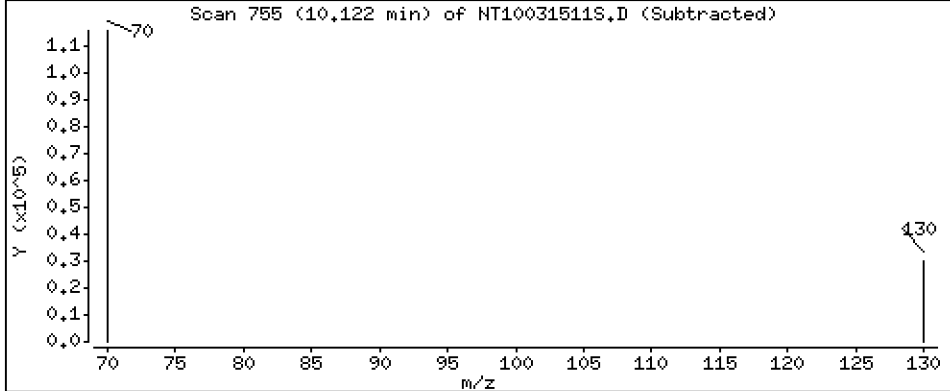
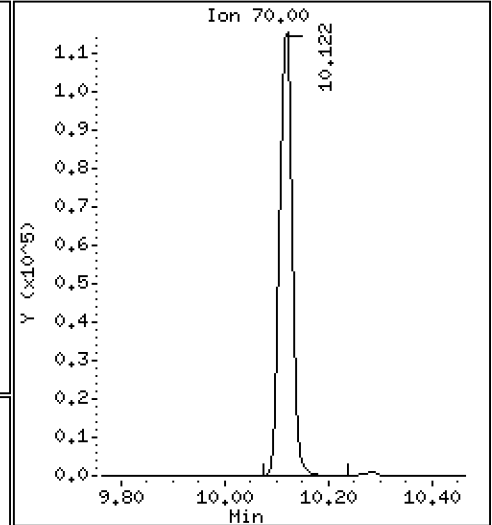
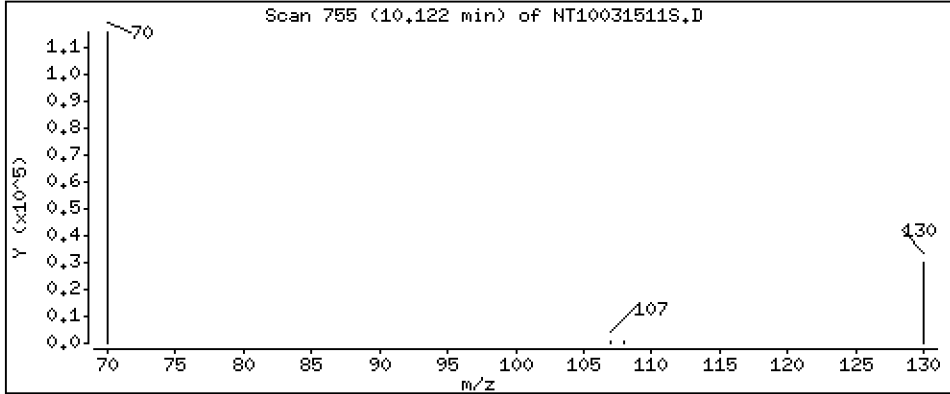
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

16 N-Nitroso-di-n-propylamine

Concentration: 5,282 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

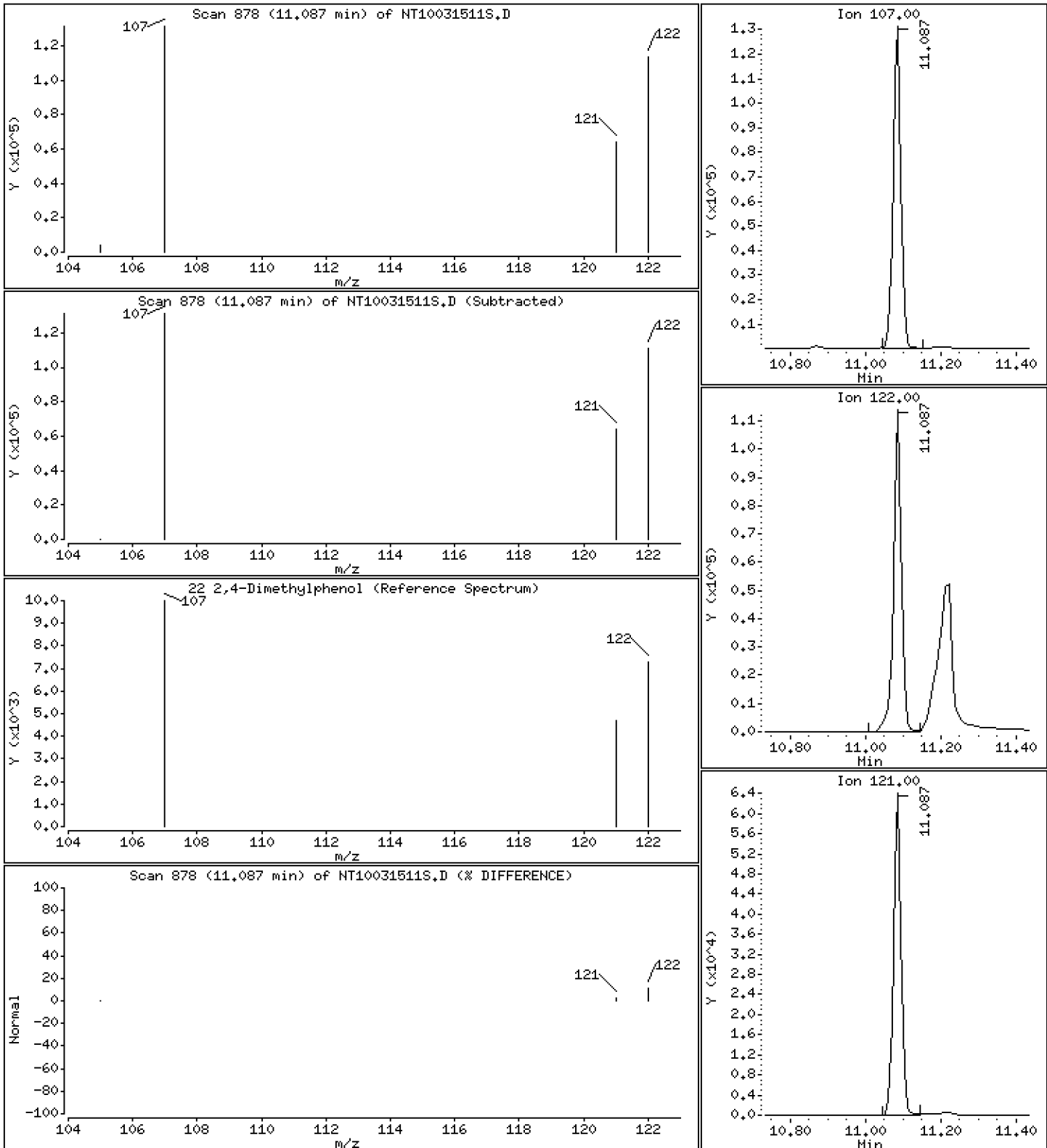
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 3,660 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

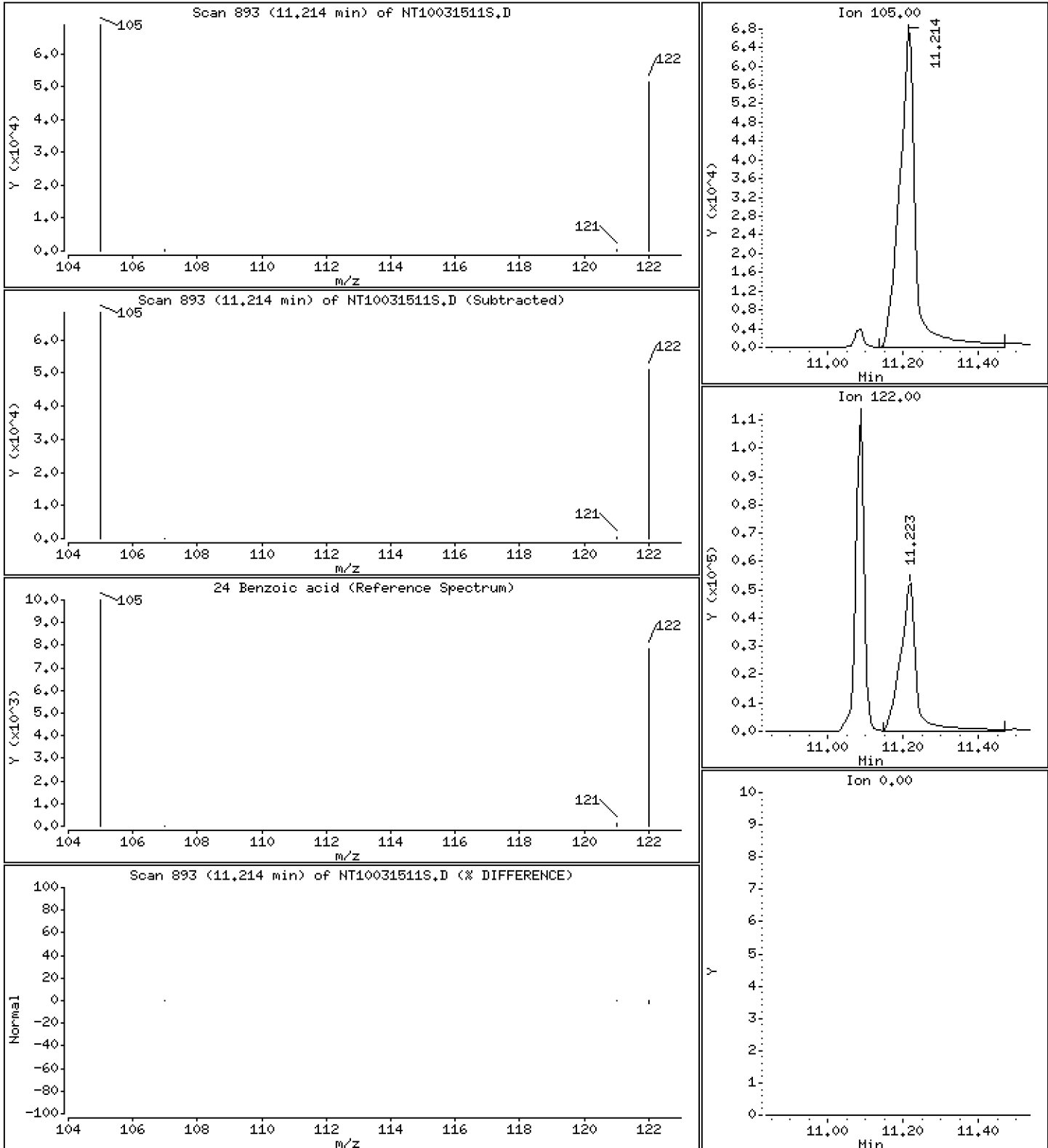
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

24 Benzoic acid

Concentration: 6,746 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

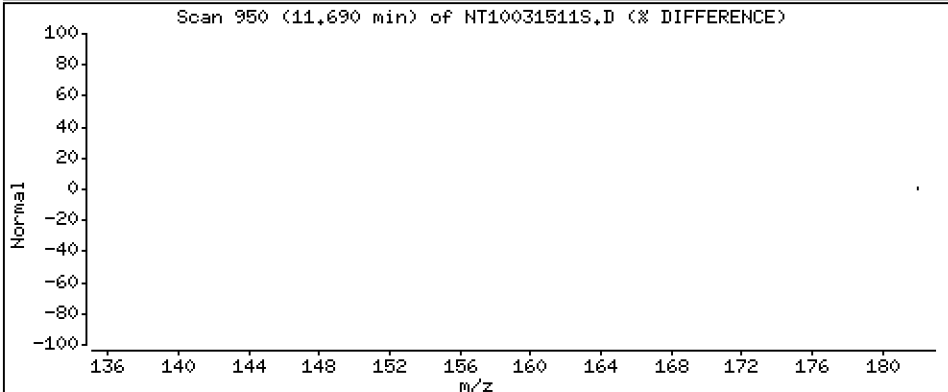
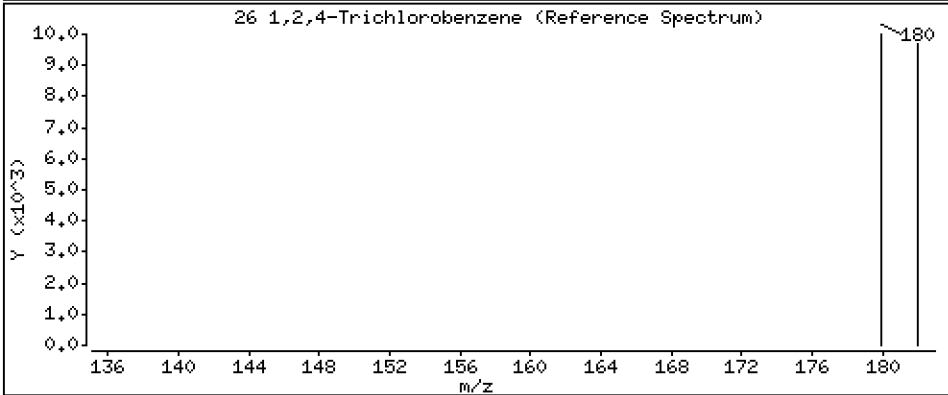
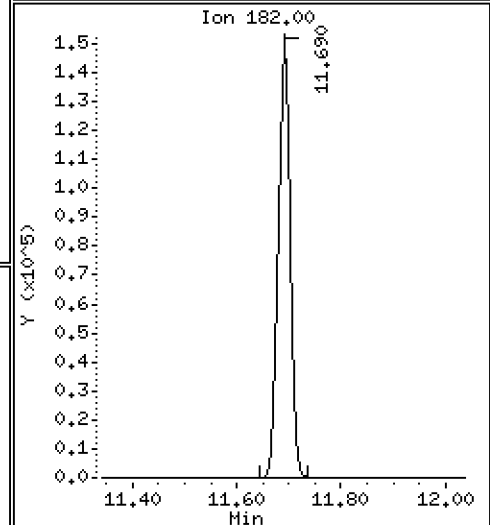
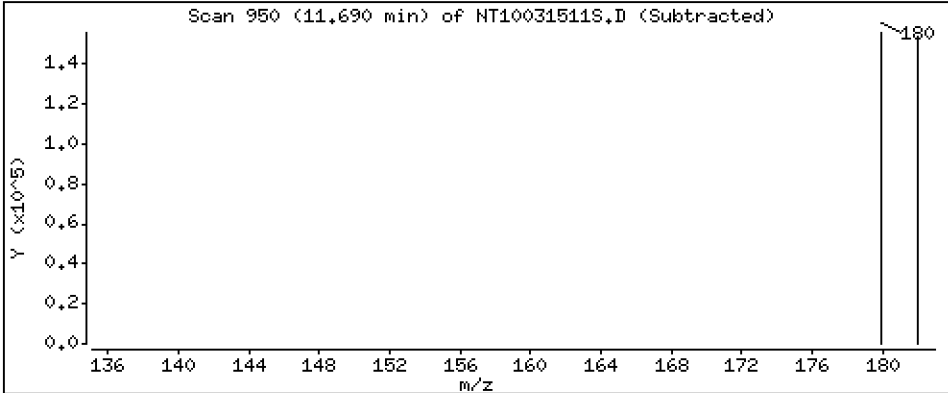
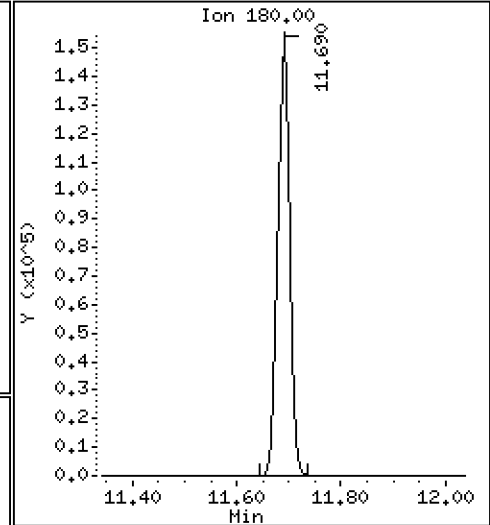
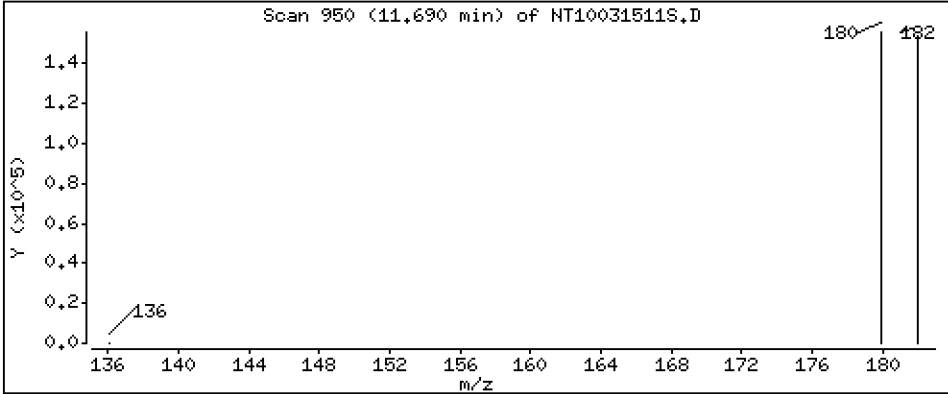
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 4,445 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

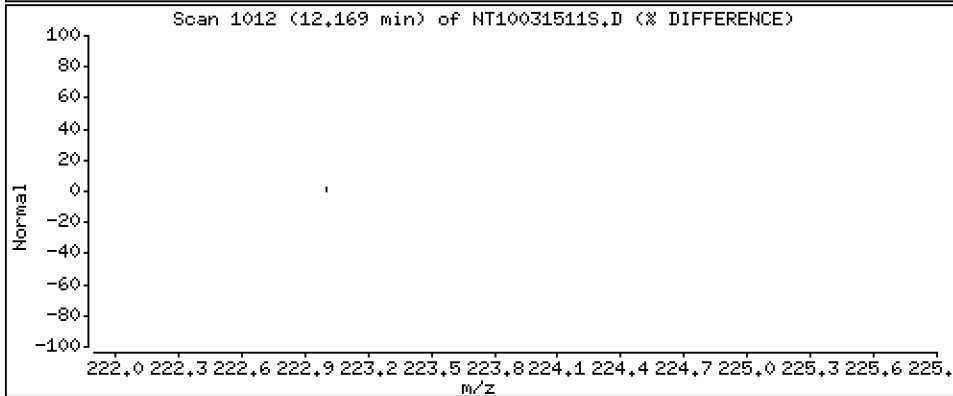
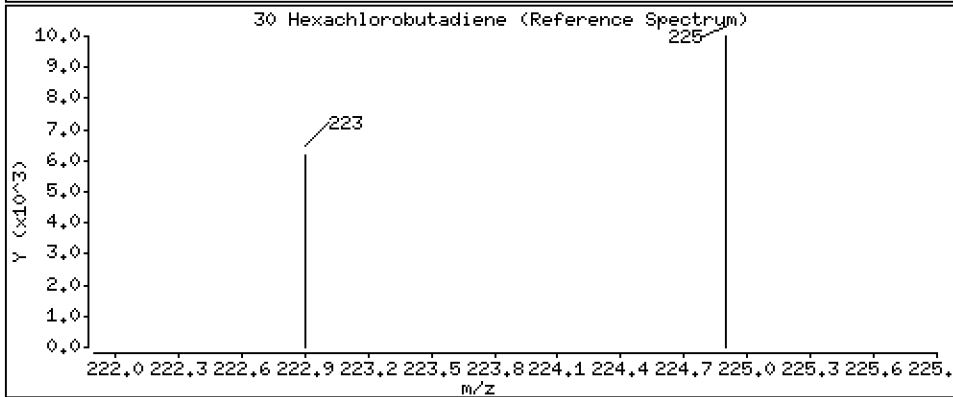
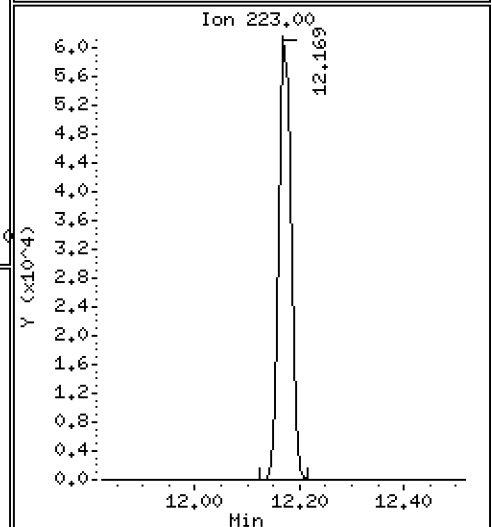
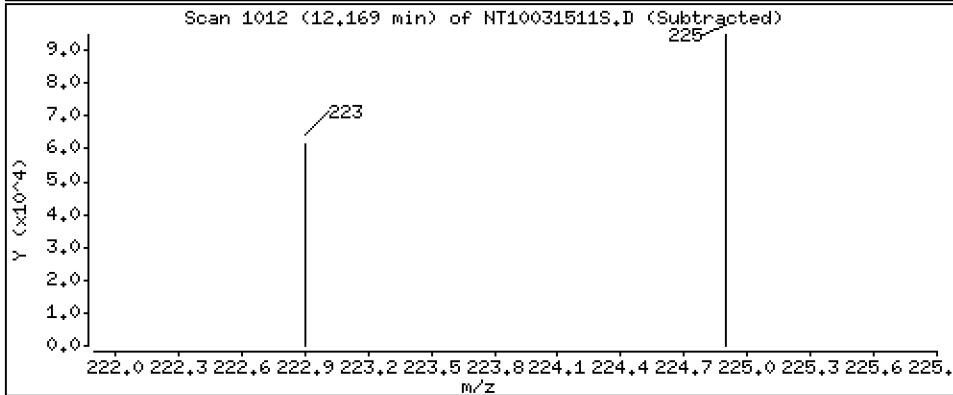
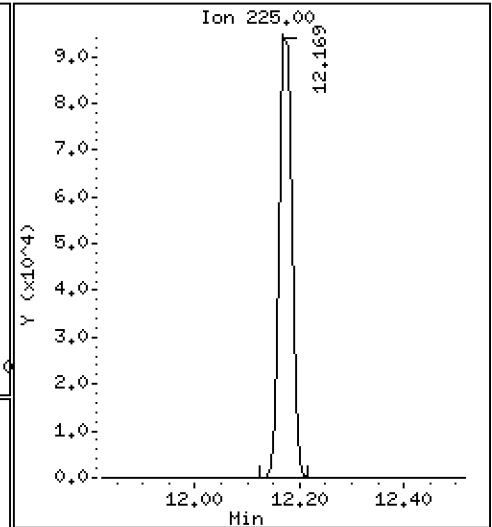
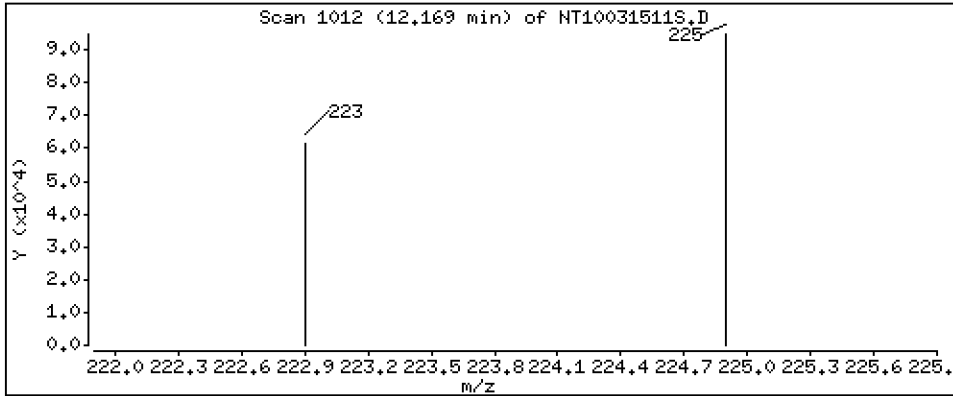
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 4,653 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

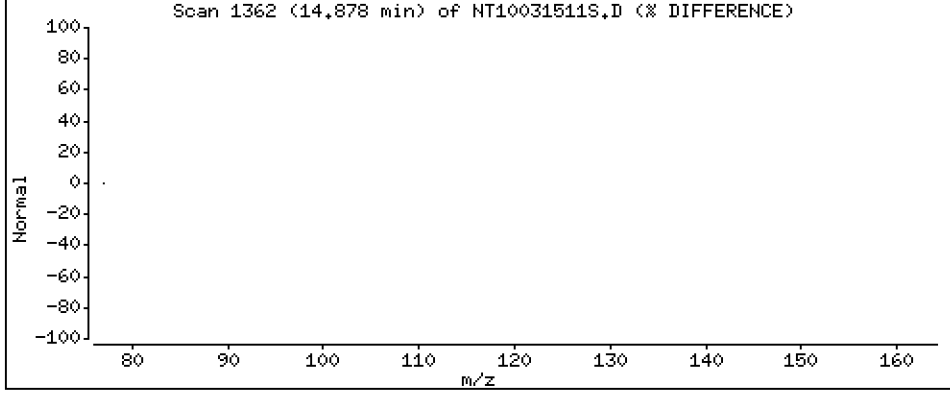
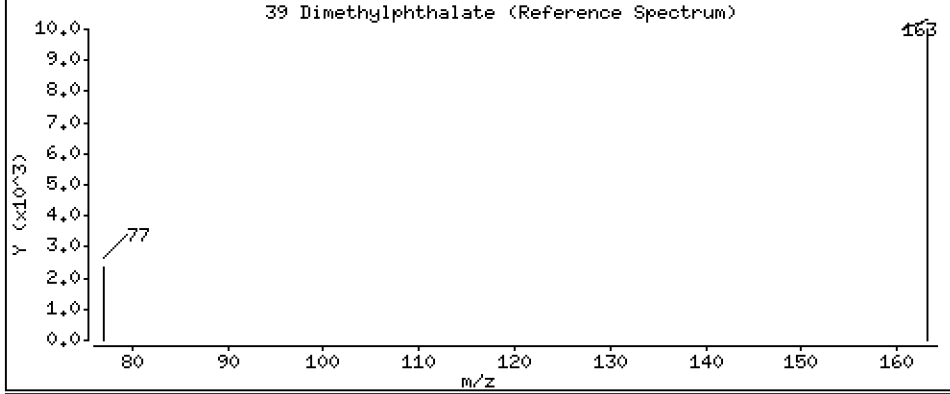
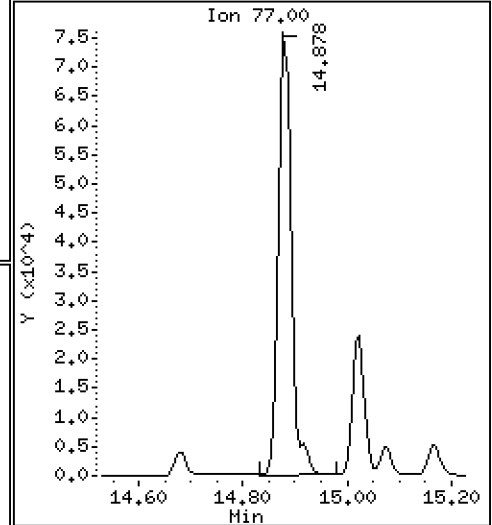
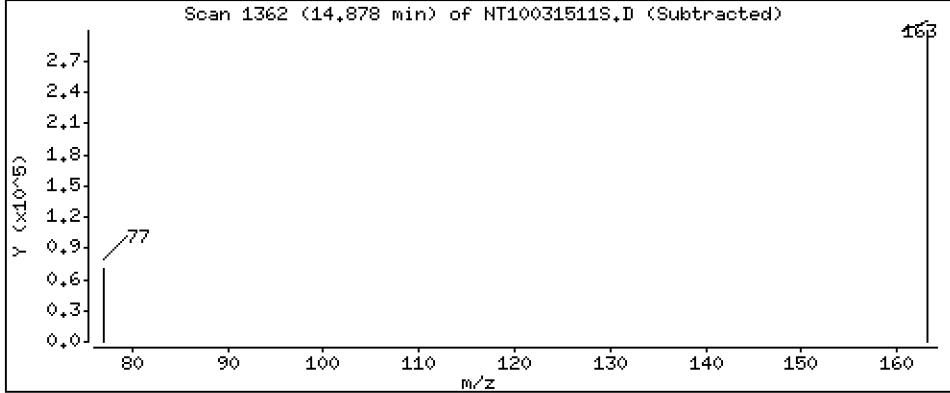
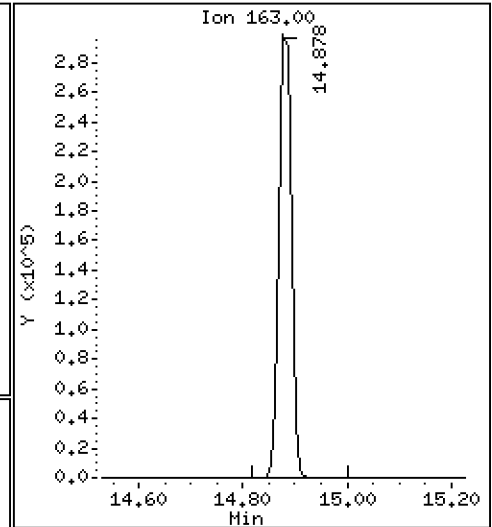
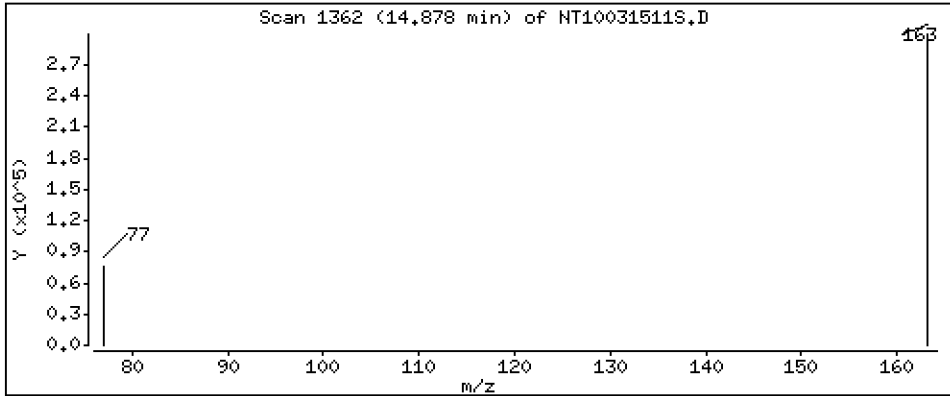
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 4,948 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

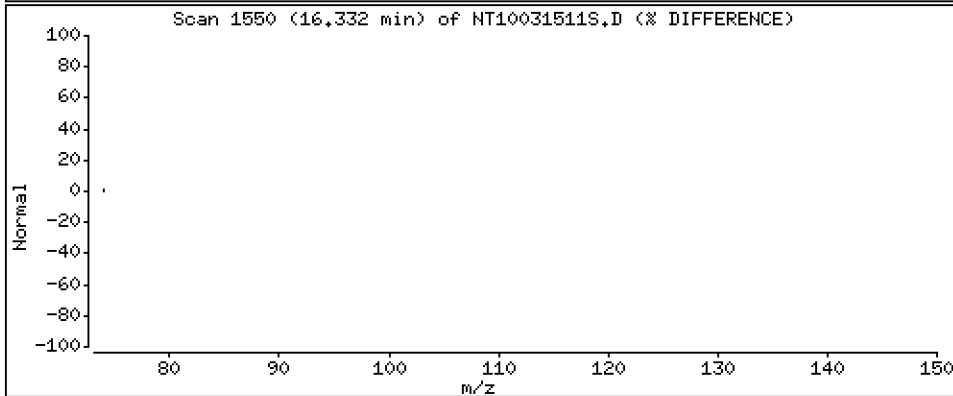
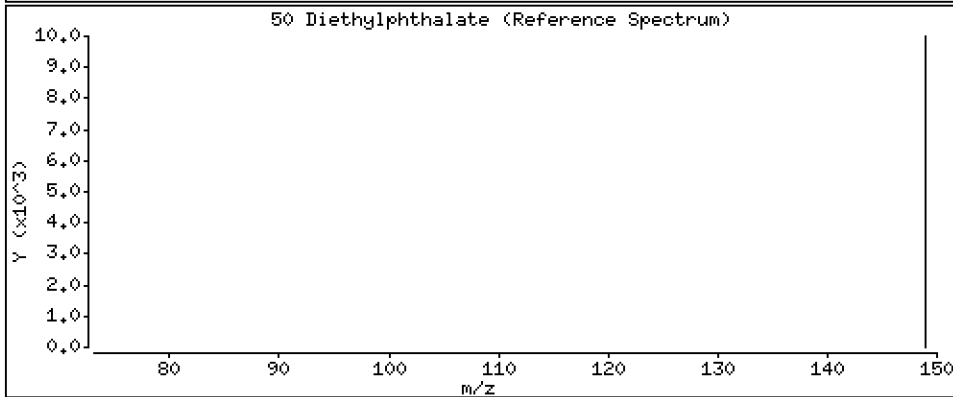
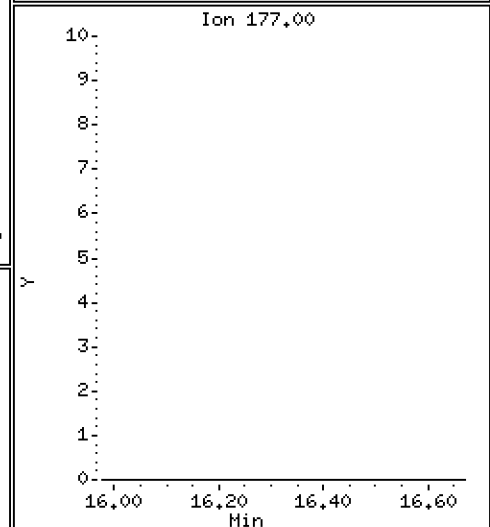
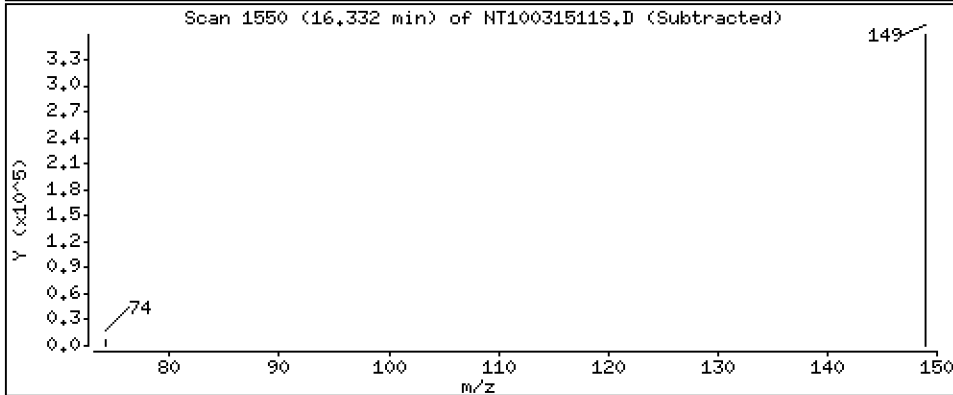
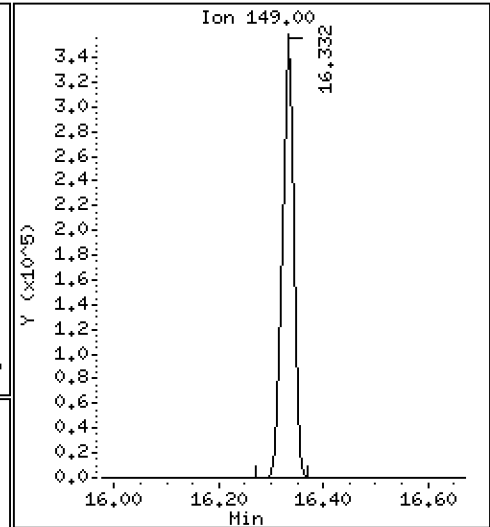
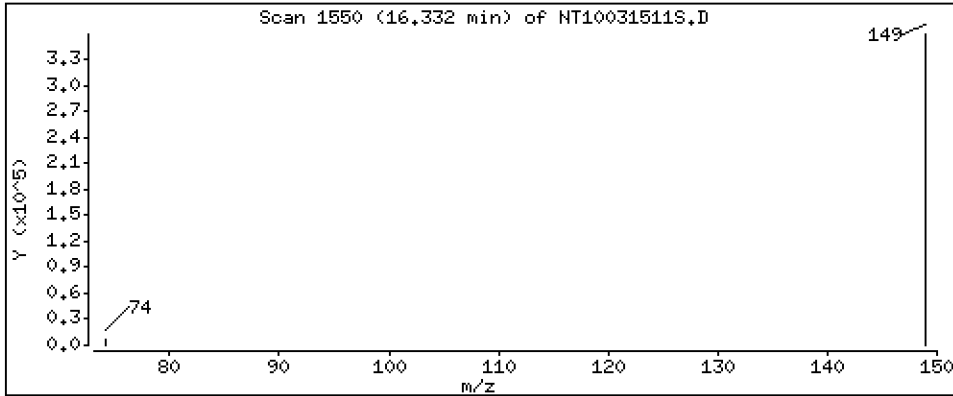
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

50 Diethylphthalate

Concentration: 5.364 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

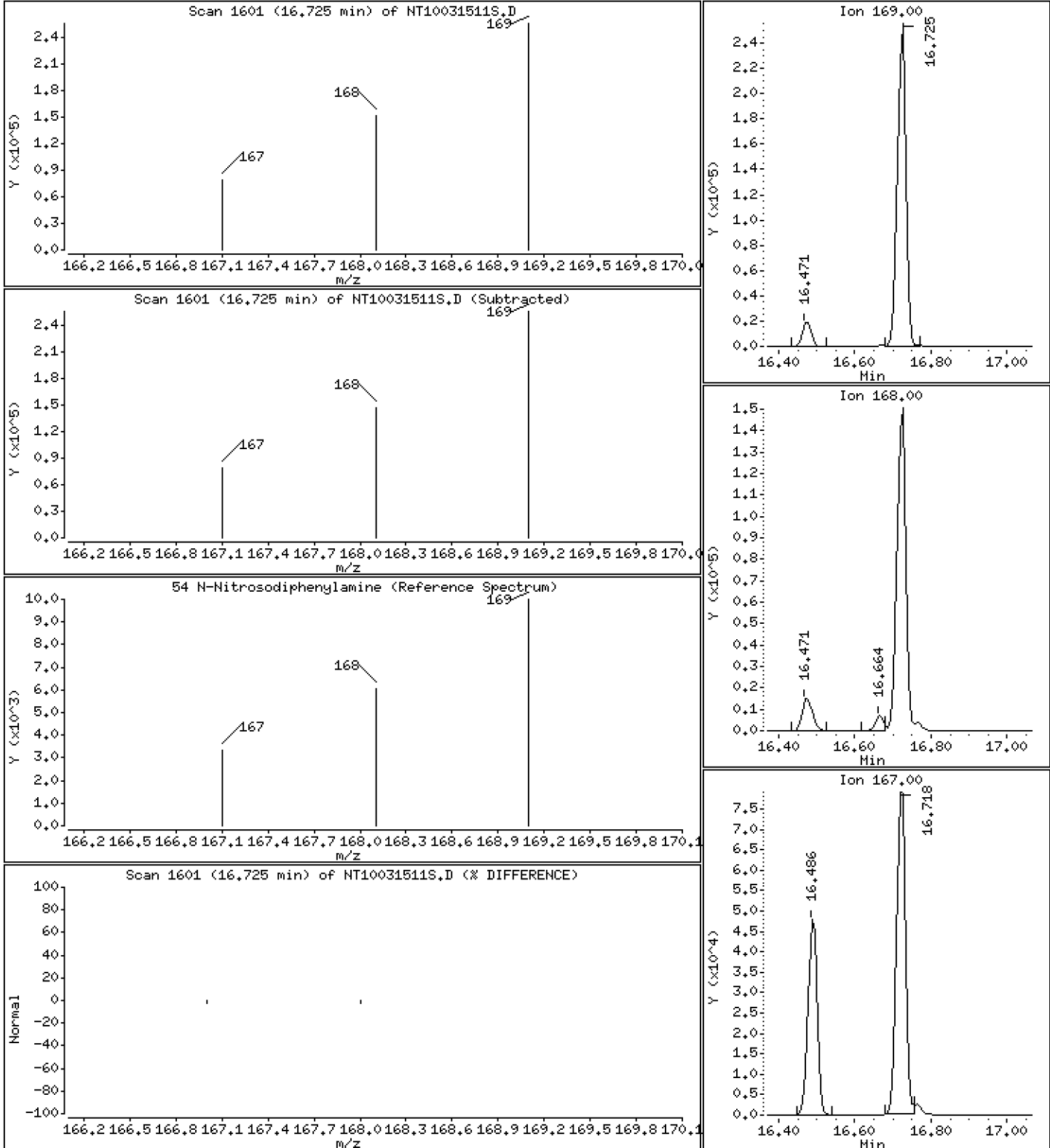
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

54 N-Nitrosodiphenylamine

Concentration: 5.080 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

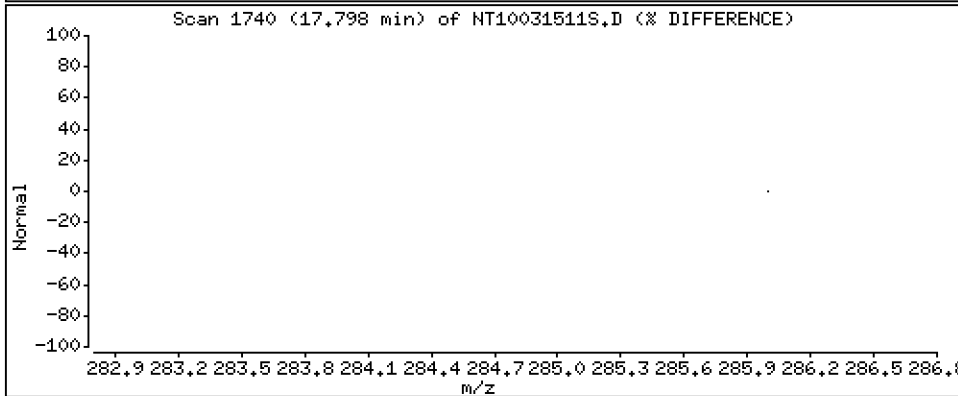
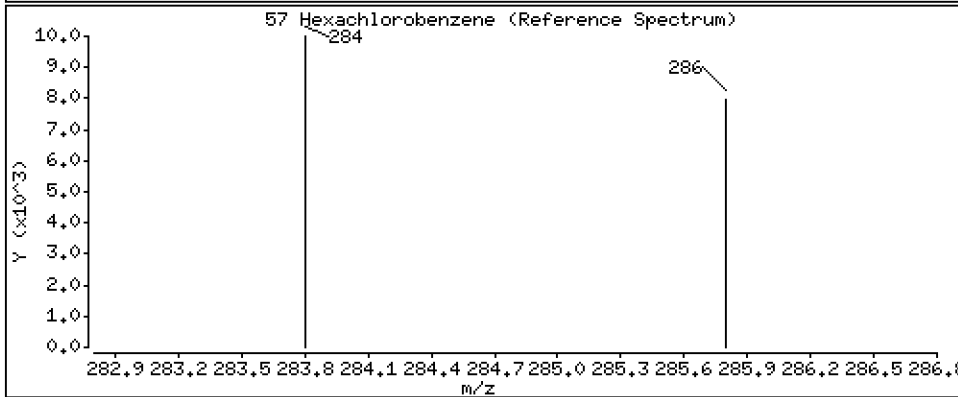
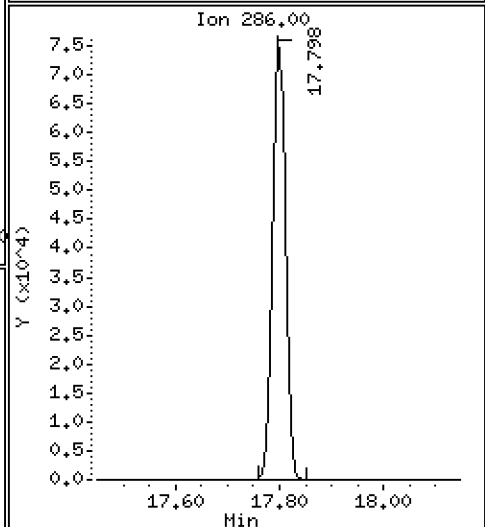
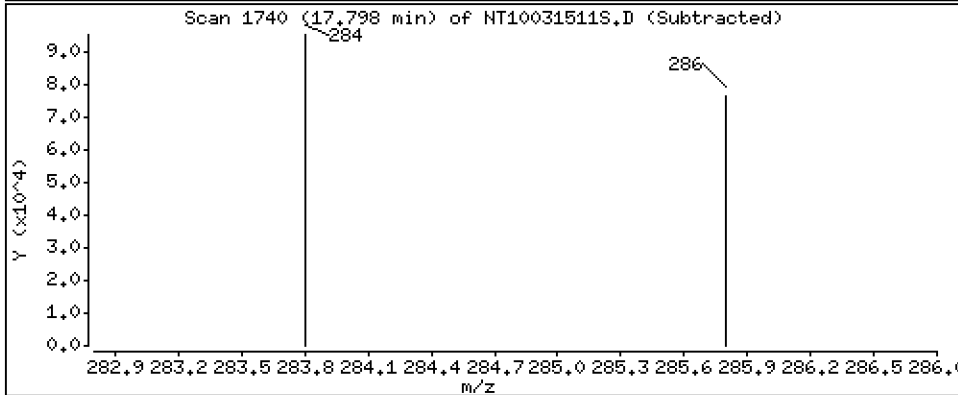
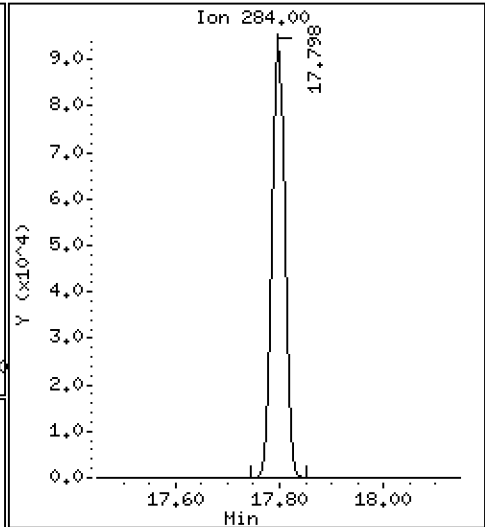
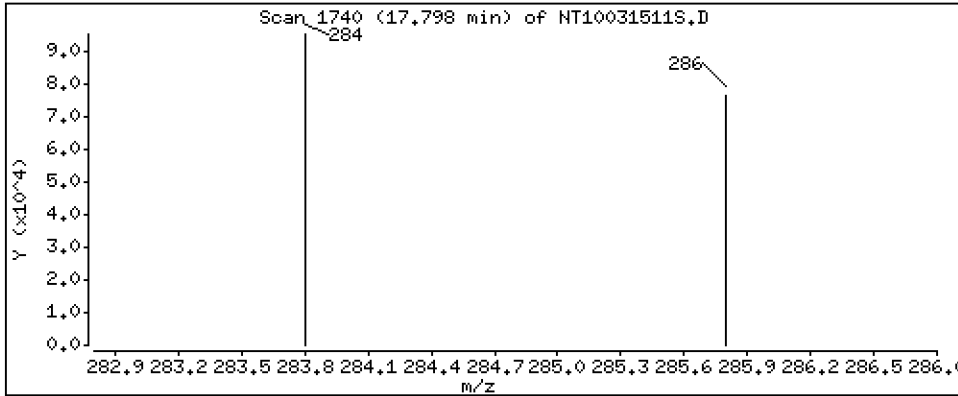
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

57 Hexachlorobenzene

Concentration: 4,614 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

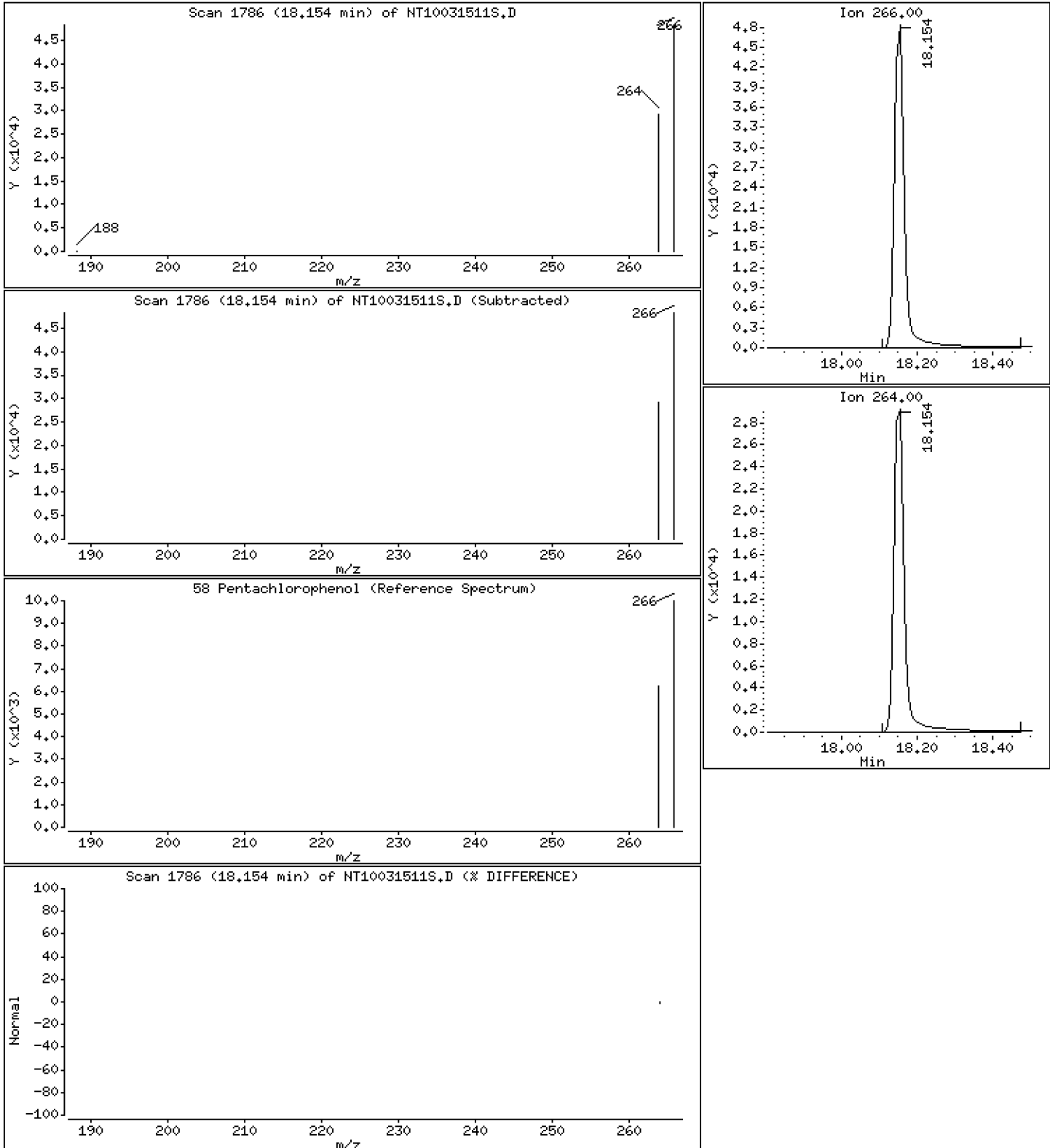
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 4,418 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

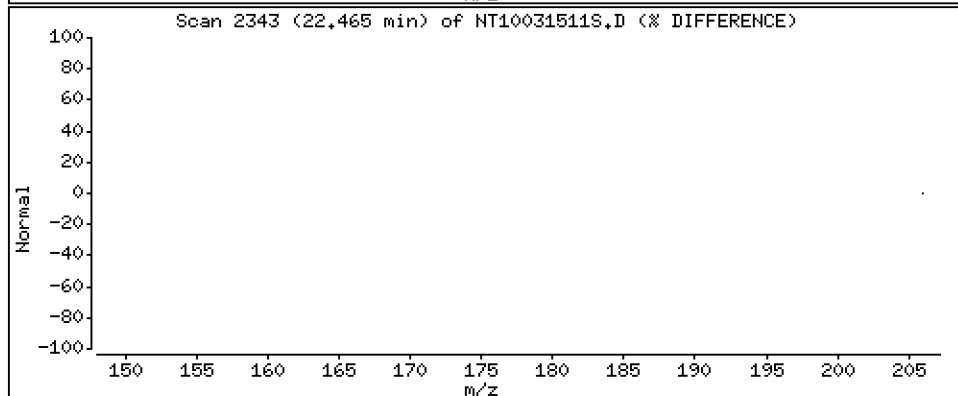
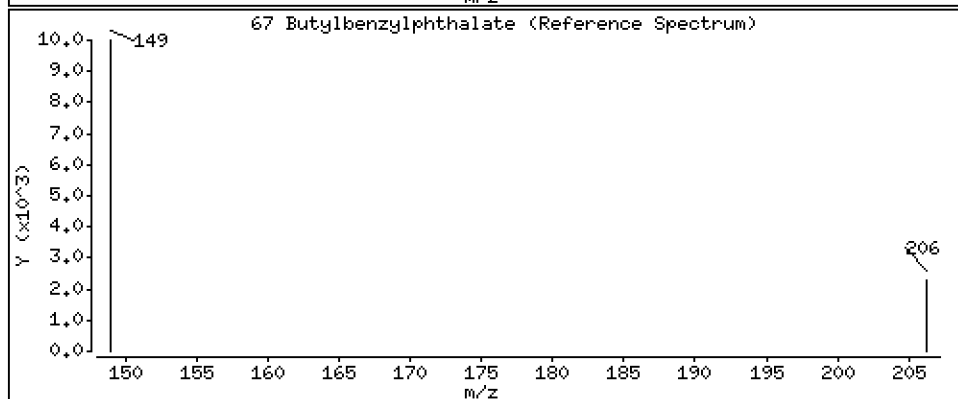
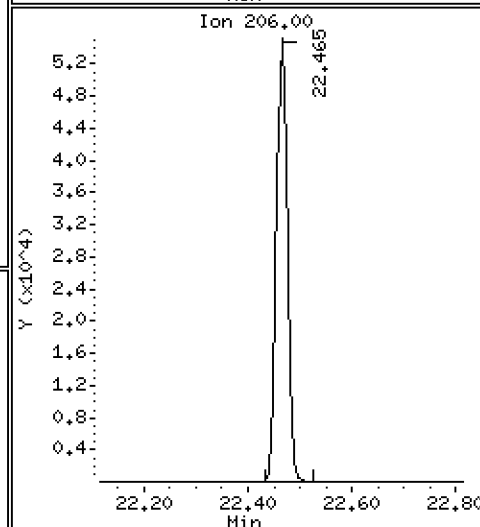
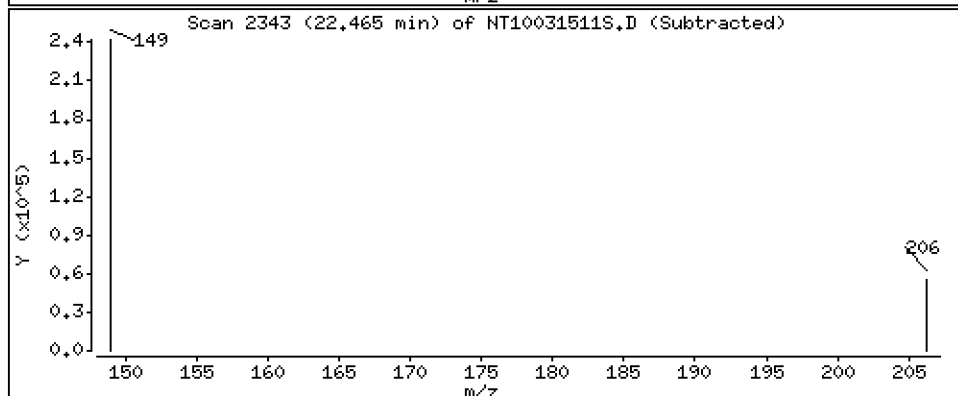
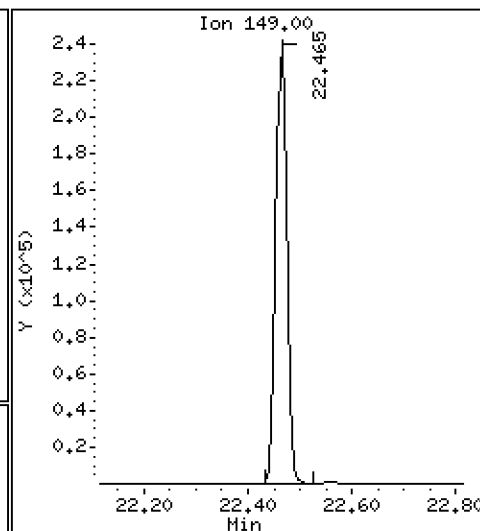
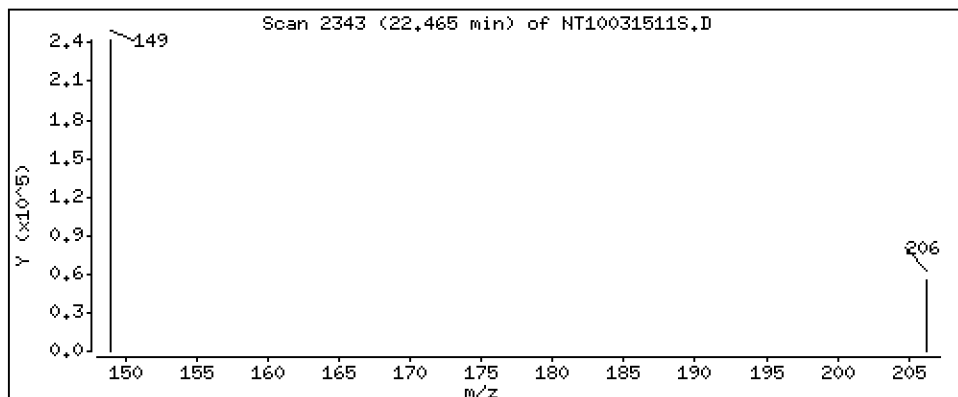
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 5,121 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

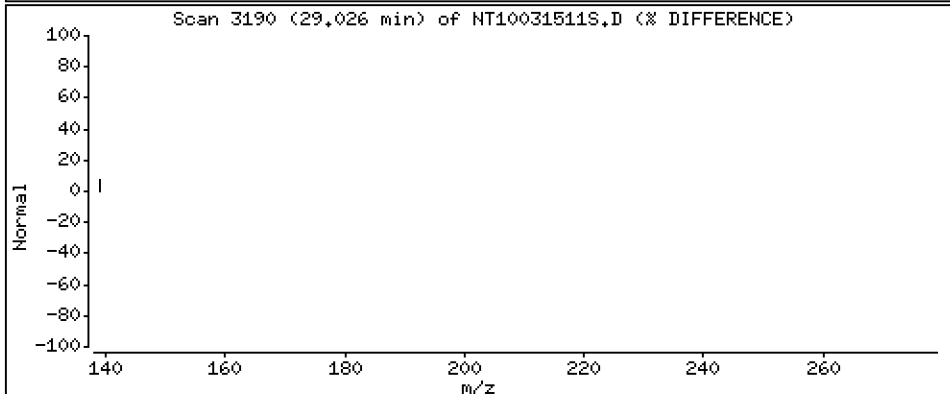
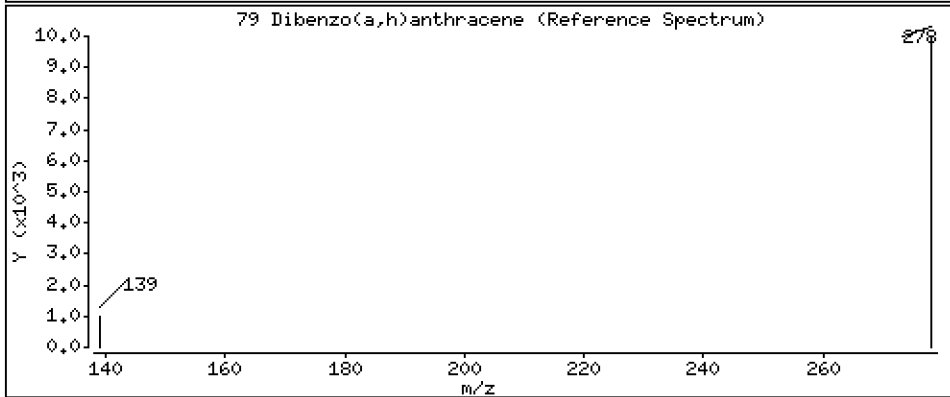
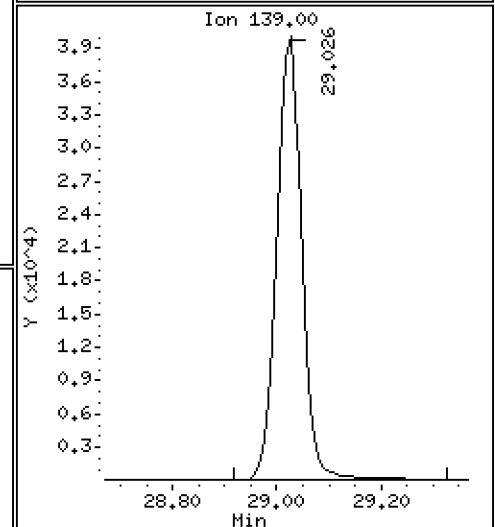
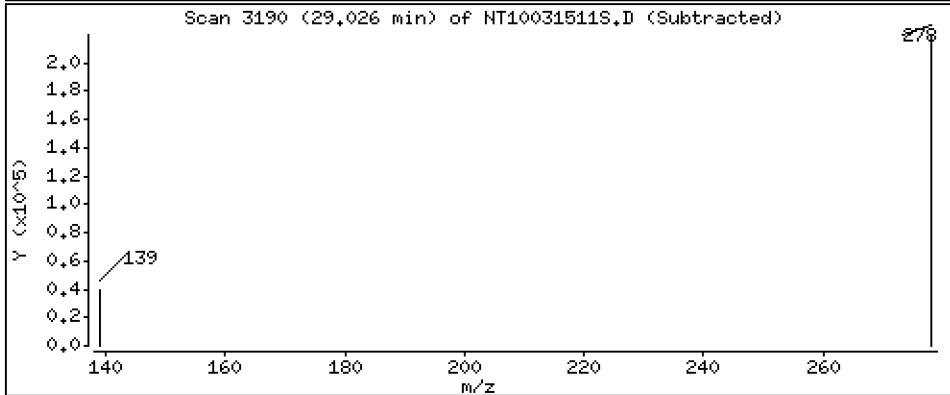
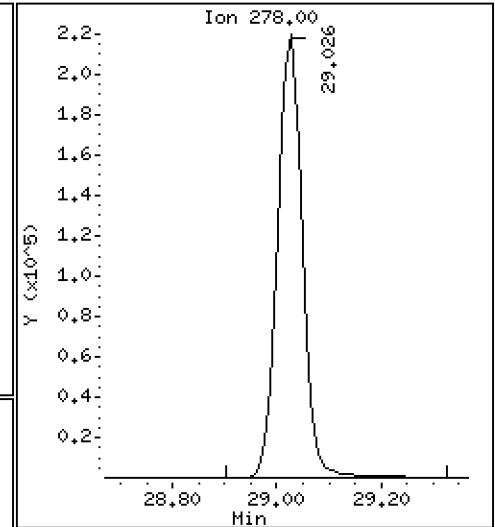
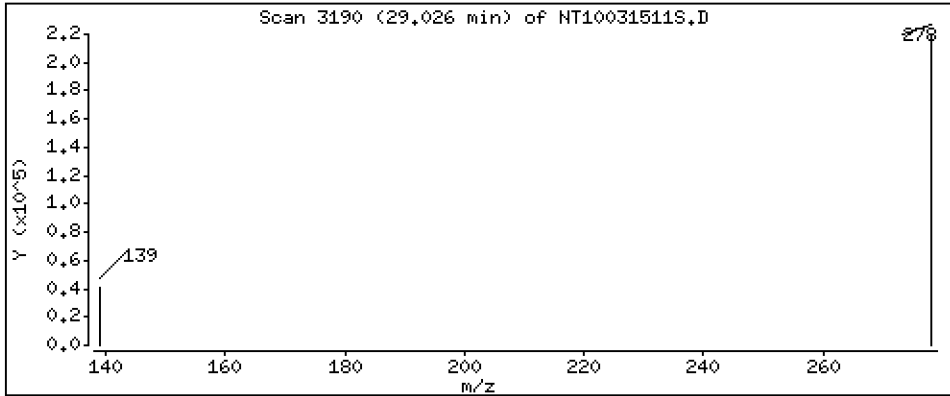
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 4,238 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

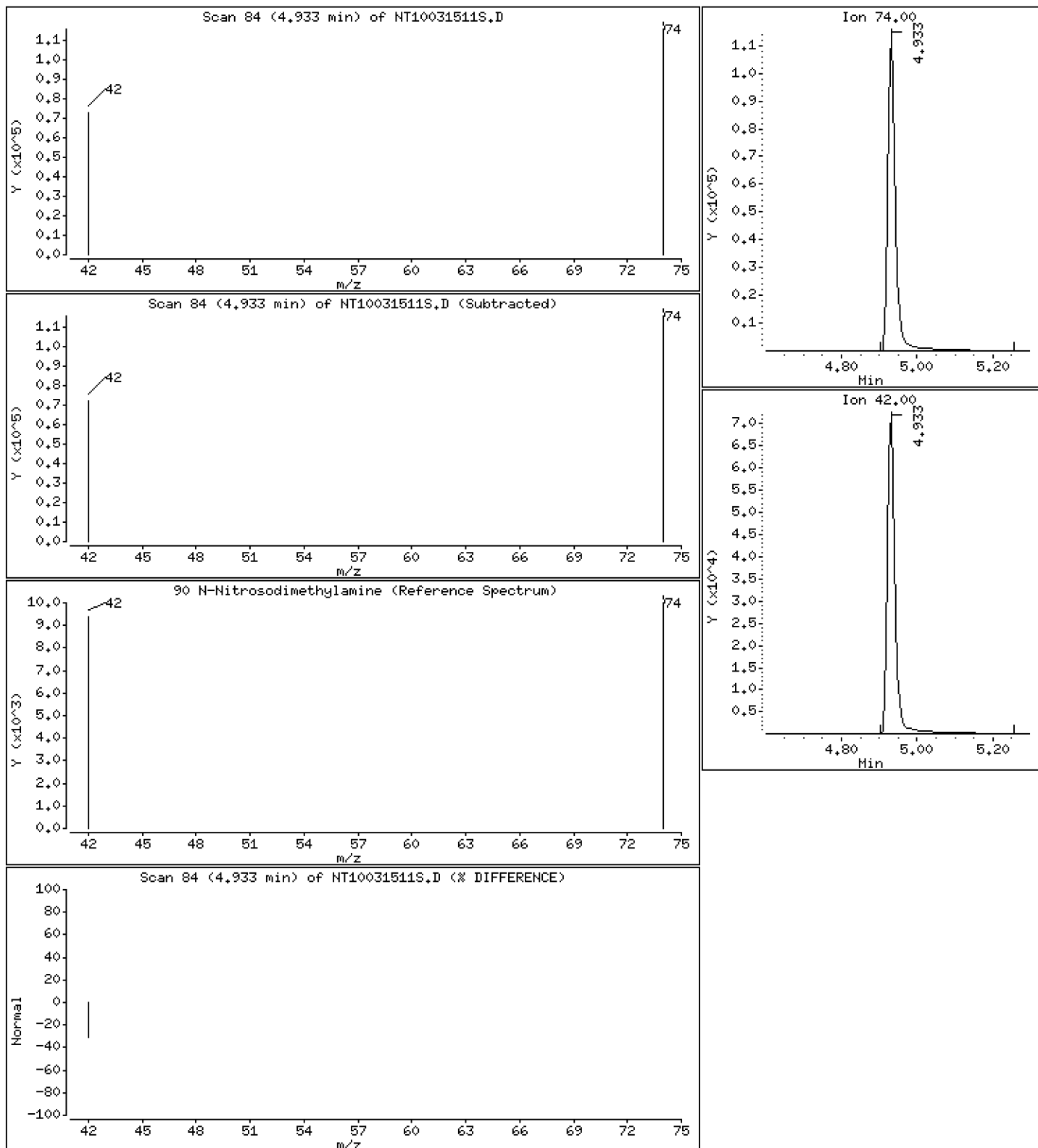
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

90 N-Nitrosodimethylamine

Concentration: 5.096 ug/L



ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D
 Lab Smp Id: SLC0238-SCV1
 Inj Date : 16-MAR-2023 02:16 MS Autotune Date: 16-JAN-2023 17:42
 Operator : JGR Inst ID: nt10.i
 Smp Info : SLC0238-SCV1
 Misc Info :
 Comment :
 Method : \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
 Meth Date : 16-Mar-2023 14:39 van Quant Type: ISTD
 Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D
 Als bottle: 11
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: PSDDA.sub
 Target Version: 4.14
 Processing Host: VANS-201906

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

| Name | Value | Description |
|---------------|----------|---------------------------------|
| DF | 1.000 | Dilution Factor |
| Vo | 1000.000 | Volume of sample extracted (mL) |
| Vt | 1000.000 | Volume of final extract (uL) |
| Vi | 1.000 | Volume injected (uL) |
| Uf | 1.000 | ng unit correction factor |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT | SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|-------------------------------|-------|-----|------------------------|--------|---------|----------|----------------|---------|
| | | | | | | | ON-COLUMN | FINAL |
| | MASS | | | | | | (ug/mL) | (ug/L) |
| \$ 1 2-Fluorophenol | 112 | | Compound Not Detected. | | | | | |
| 3 Phenol | 94 | | 8.664 | 8.664 | (0.931) | 303581 | 4.37299 | 4.373 |
| 7 1,3-Dichlorobenzene | 146 | | 9.236 | 9.236 | (0.992) | 301605 | 4.64290 | 4.643 |
| * 8 1,4-Dichlorobenzene-d4 | 152 | | 9.306 | 9.298 | (1.000) | 166866 | 4.00000 | |
| 9 1,4-Dichlorobenzene | 146 | | 9.329 | 9.329 | (1.002) | 303390 | 4.83813 | 4.838 |
| 11 Benzyl alcohol | 79 | | 9.562 | 9.570 | (1.028) | 208505 | 5.18071 | 5.181 |
| 12 1,2-Dichlorobenzene | 146 | | 9.686 | 9.686 | (1.041) | 288539 | 4.67875 | 4.679 |
| 13 2-Methylphenol | 108 | | 9.772 | 9.772 | (1.050) | 201888 | 4.19698 | 4.197 |
| 15 4-Methylphenol | 108 | | 10.043 | 10.036 | (1.079) | 223083 | 4.46301 | 4.463 |
| 16 N-Nitroso-di-n-propylamine | 70 | | 10.121 | 10.113 | (1.088) | 186707 | 5.28174 | 5.282 |
| 22 2,4-Dimethylphenol | 107 | | 11.086 | 11.087 | (0.942) | 193654 | 3.66015 | 3.660 |
| 24 Benzoic acid | 105 | | 11.214 | 11.189 | (0.952) | 200487 | 6.74612 | 6.746 |
| 26 1,2,4-Trichlorobenzene | 180 | | 11.690 | 11.690 | (0.993) | 236605 | 4.44540 | 4.445 |
| * 27 Naphthalene-d8 | 136 | | 11.775 | 11.775 | (1.000) | 612104 | 4.00000 | |
| 30 Hexachlorobutadiene | 225 | | 12.169 | 12.169 | (1.033) | 150581 | 4.65339 | 4.653 |
| 39 Dimethylphthalate | 163 | | 14.877 | 14.877 | (0.967) | 472341 | 4.94766 | 4.948 |
| * 42 Acenaphthene-d10 | 162 | | 15.388 | 15.380 | (1.000) | 302524 | 4.00000 | |
| 50 Diethylphthalate | 149 | | 16.331 | 16.324 | (1.061) | 530540 | 5.36440 | 5.364 |
| 54 N-Nitrosodiphenylamine | 169 | | 16.725 | 16.717 | (0.908) | 377357 | 5.08034 | 5.080 |
| 57 Hexachlorobenzene | 284 | | 17.798 | 17.798 | (0.966) | 153405 | 4.61353 | 4.614 |

| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|---------------------------|-----------|--------|--------|---------|----------|----------------------|------------------|
| | | | | | | ON-COLUMN (ug/mL) | FINAL (ug/L) |
| 58 Pentachlorophenol | 266 | 18.154 | 18.154 | (0.985) | 83223 | 4.41780 | 4.418 |
| * 59 Phenanthrene-d10 | 188 | 18.425 | 18.417 | (1.000) | 553619 | 4.00000 | |
| \$ 66 Terphenyl-d14 | 244 | 21.543 | 21.543 | (0.918) | 117 | 0.00154 | 0.001543 (RM) |
| 67 Butylbenzylphthalate | 149 | 22.464 | 22.465 | (0.958) | 332887 | 5.12147 | 5.121 |
| * 69 Chrysene-d12 | 240 | 23.455 | 23.455 | (1.000) | 465428 | 4.00000 | |
| * 77 Perylene-d12 | 264 | 26.188 | 26.188 | (1.000) | 532593 | 4.00000 | |
| 79 Dibenzo(a,h)anthracene | 278 | 29.026 | 29.019 | (1.108) | 722983 | 4.23762 | 4.238 |
| 90 N-Nitrosodimethylamine | 74 | 4.933 | 4.948 | (0.530) | 163555 | 5.09625 | 5.096 |

QC Flag Legend

- R - Spike/Surrogate failed recovery limits.
- M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i
 Lab File ID: NT10031511S.D
 Lab Smp Id: SLC0238-SCV1
 Analysis Type: SV
 Quant Type: ISTD
 Operator: JGR
 Method File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
 Misc Info:

Calibration Date: 15-MAR-2023
 Calibration Time: 23:06
 Level: LOW
 Sample Type: AIR

Test Mode:
 Use Last Continuing Calibrator.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|------------|---------|--------|--------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 188081 | 94041 | 376162 | 166866 | -11.28 |
| 27 Naphthalene-d8 | 674549 | 337275 | 1349098 | 612104 | -9.26 |
| 42 Acenaphthene-d10 | 328275 | 164138 | 656550 | 302524 | -7.84 |
| 59 Phenanthrene-d10 | 597140 | 298570 | 1194280 | 553619 | -7.29 |
| 69 Chrysene-d12 | 466503 | 233252 | 933006 | 465428 | -0.23 |
| 77 Perylene-d12 | 518203 | 259102 | 1036406 | 532593 | 2.78 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 9.30 | 8.80 | 9.80 | 9.31 | 0.08 |
| 27 Naphthalene-d8 | 11.77 | 11.27 | 12.27 | 11.78 | 0.01 |
| 42 Acenaphthene-d10 | 15.39 | 14.89 | 15.89 | 15.39 | 0.01 |
| 59 Phenanthrene-d10 | 18.42 | 17.92 | 18.92 | 18.43 | 0.00 |
| 69 Chrysene-d12 | 23.45 | 22.95 | 23.95 | 23.46 | 0.00 |
| 77 Perylene-d12 | 26.19 | 25.69 | 26.69 | 26.19 | 0.00 |

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

REVIEW SUMMARY FOR FILE - NT10031511S.D

Lab ID: SLC0238-SCV1

nt10.i, 20230315.b\20230315.b\SIMABN2.m,

16-MAR-2023 02:16

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT | CCV | RRT | DELTA | COMPOUND |
|-------|-------|--------|-------|--------------|
| 0.952 | 0.000 | 0.9524 | | Benzoic acid |

RRT check based on Ccal File: 20230315.b/NT10031510S.D

On Column LOD for nt10.i, 20230315.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

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

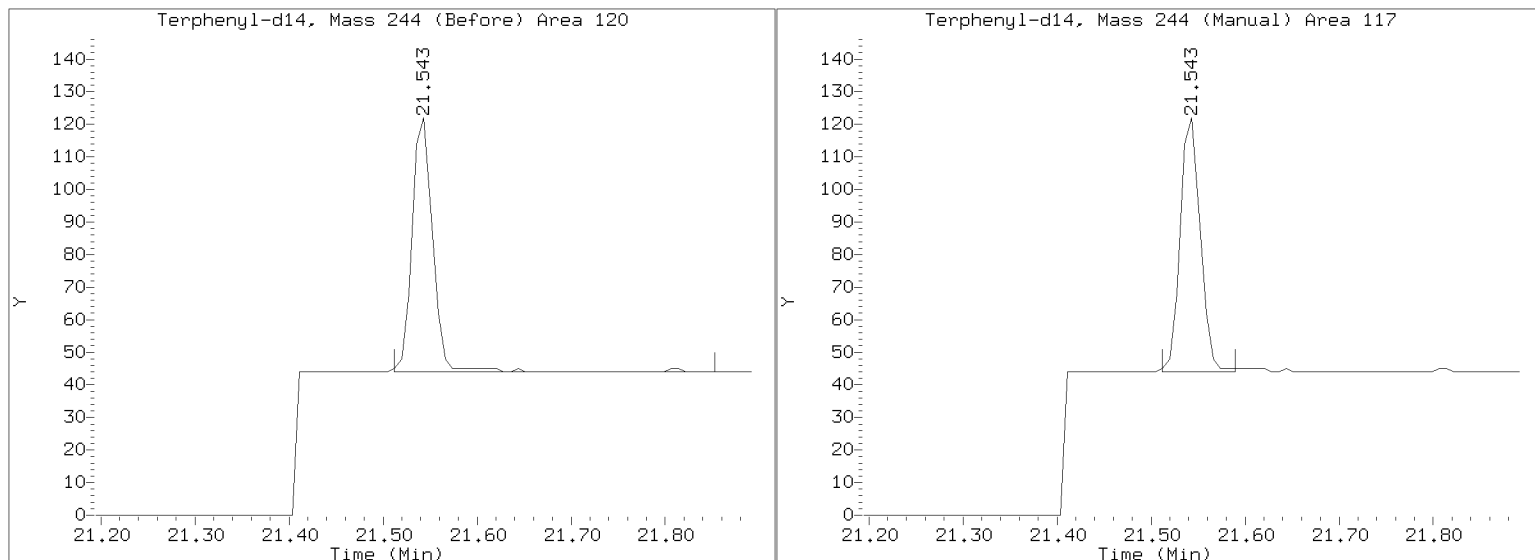
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230315.b/20230315.b/NT10031511S.D

Injection Date: 16-MAR-2023 02:16

Lab ID: SLC0238-SCV1 Client ID:

Report Date: 03/16/2023 14:49





INITIAL CALIBRATION CHECK
EPA 8270E-SIM

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor OEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: NT10

Calibration: GC00049

Lab File ID: NT1003222303S.D

Calibration Date: 03/15/2023

Sequence: SLC0407

Injection Date: 03/22/23

Lab Sample ID: SLC0407-ICV1

Injection Time: 18:20

Sequence Name: ABN 1

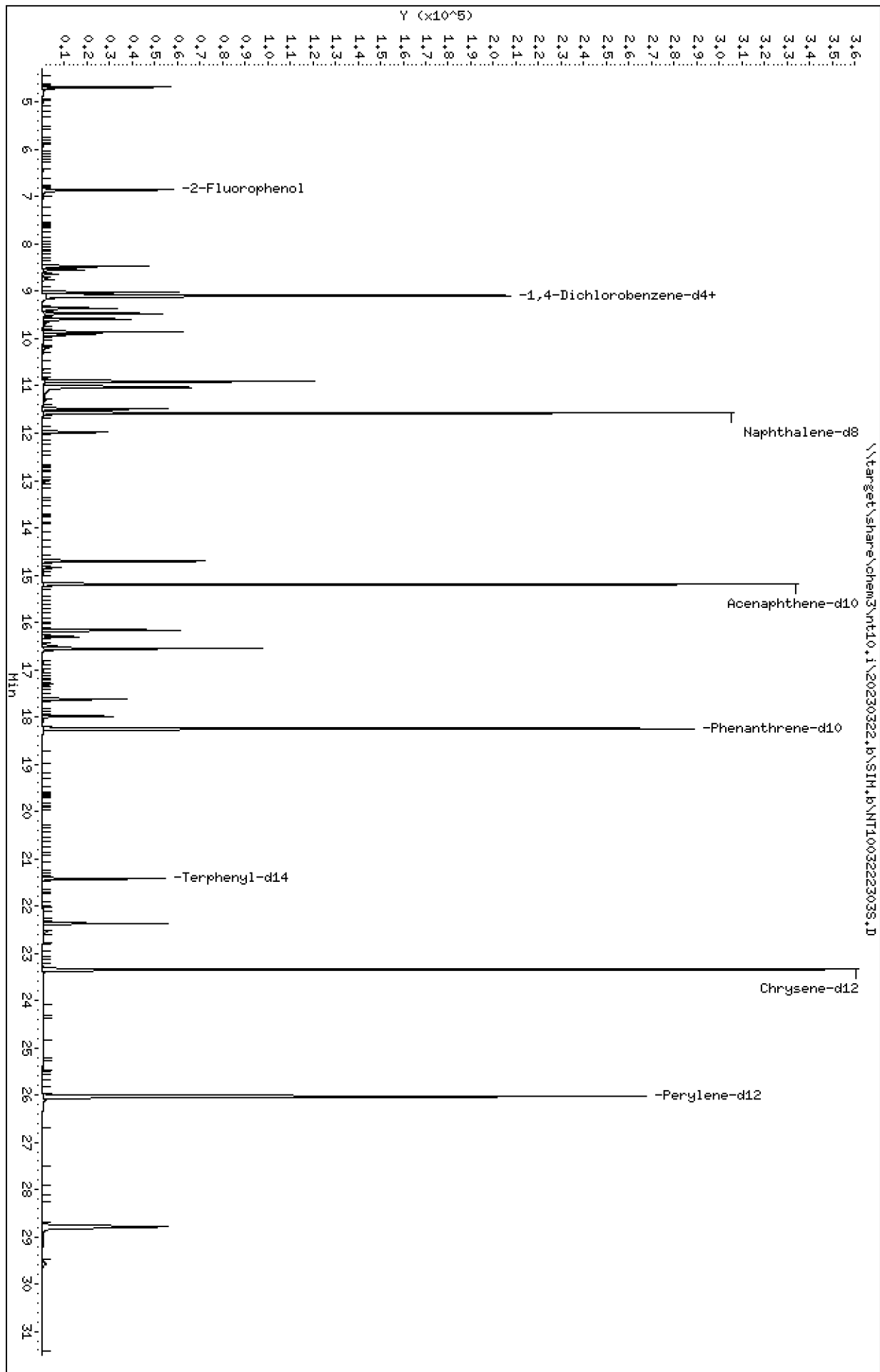
| COMPOUND | TYPE | CONC. (ug/mL) | | RESPONSE FACTOR | | | % DRIFT/DIFF | |
|------------------------|------|---------------|-------|-----------------|-----------|-----|--------------|-------|
| | | STD | ICV | ICAL | ICV | MIN | ICV | LIMIT |
| 1,4-Dichlorobenzene | A | 1.0000 | 1.0 | 1.5031980 | 1.4859270 | | -1.2 | +/-20 |
| 1,2-Dichlorobenzene | A | 1.0000 | 1.0 | 1.4783140 | 1.5294510 | | 3.5 | +/-20 |
| Benzyl Alcohol | A | 1.0000 | 1.0 | 0.9647610 | 0.9208009 | | -4.6 | +/-20 |
| Benzoic acid | A | 4.0000 | 4.0 | 0.1358970 | 0.1923830 | | 0.2 | +/-20 |
| 2,4-Dimethylphenol | A | 2.0000 | 1.9 | 0.3457498 | 0.3261895 | | -5.7 | +/-20 |
| 1,2,4-Trichlorobenzene | A | 1.0000 | 1.1 | 0.3478148 | 0.3655716 | | 5.1 | +/-20 |
| N-Nitrosodiphenylamine | A | 1.0000 | 1.1 | 0.5366720 | 0.5872762 | | 9.4 | +/-20 |
| Pentachlorophenol | A | 2.0000 | 2.0 | 0.0934250 | 0.1348737 | | 0.6 | +/-20 |
| 2-Fluorophenol | A | 1.5000 | 1.53 | 1.2129820 | 1.2384850 | | 2.1 | +/-20 |
| p-Terphenyl-d14 | A | 1.0000 | 0.979 | 0.6517430 | 0.6380940 | | -2.1 | +/-20 |
| 1,4-Dichlorobenzene-d4 | A | 4.0000 | 4.0 | 46867.7500 | 1.0000 | | 0.0 | |
| Naphthalene-d8 | A | 4.0000 | 4.0 | 167312.2000 | 1.0000 | | 0.0 | |
| Acenaphthene-d10 | A | 4.0000 | 4.0 | 81972.4400 | 1.0000 | | 0.0 | |
| Phenanthrene-d10 | A | 4.0000 | 4.0 | 150166.2000 | 1.0000 | | 0.0 | |
| Chrysene-d12 | A | 4.0000 | 4.0 | 110890.6000 | 1.0000 | | 0.0 | |
| Perylene-d12 | A | 4.0000 | 4.0 | 124876.5000 | 1.0000 | | 0.0 | |

* Values outside of QC limits

* Values outside of QC limits

Data File: \\target\share\chem3\nt10.1\20230322.16\SIM.B\NT100322303S.D
Date: 22-MAR-2023 18:20
Client ID:
Sample Info: SED-ICVSIH
Volume Injected (uL): 1.0
Column phase: ZB-5msi

Instrument: nt10.1
Operator: JGR
Column diameter: 0.25



ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230322.b\SIM.b\NT1003222303S.D
 Lab Smp Id: SLC0407-ICV1
 Inj Date : 22-MAR-2023 18:20 MS Autotune Date: 16-JAN-2023 17:42
 Operator : JGR Inst ID: nt10.i
 Smp Info : SEQ-ICVSIM
 Misc Info :
 Comment :
 Method : \\target\share\chem3\nt10.i\20230322.b\SIM.b\SIMABN2.m
 Meth Date : 25-Mar-2023 13:23 yev Quant Type: ISTD
 Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D
 Als bottle: 3 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: PSDDA.sub
 Target Version: 4.14
 Processing Host: ORGDATA102

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

| Name | Value | Description |
|---------------|----------|---------------------------------|
| DF | 1.000 | Dilution Factor |
| Vo | 1000.000 | Volume of sample extracted (mL) |
| Vt | 1000.000 | Volume of final extract (uL) |
| Vi | 1.000 | Volume injected (uL) |
| Uf | 1.000 | ng unit correction factor |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT | SIG | RT | EXP RT | REL RT | RESPONSE | AMOUNTS | |
|-------------------------------|-------|-----|--------|--------|---------|----------|-----------------|----------------|
| | | | | | | | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| \$ 1 2-Fluorophenol | 112 | | 6.856 | 6.856 | (0.754) | 62787 | 1.50000 | 1.532 |
| 3 Phenol | 94 | | 8.471 | 8.471 | (0.932) | 56824 | 1.00000 | 1.010 |
| 7 1,3-Dichlorobenzene | 146 | | 9.020 | 9.020 | (0.992) | 54094 | 1.00000 | 1.028 |
| * 8 1,4-Dichlorobenzene-d4 | 152 | | 9.090 | 9.090 | (1.000) | 135191 | 4.00000 | |
| 9 1,4-Dichlorobenzene | 146 | | 9.113 | 9.113 | (1.003) | 50221 | 1.00000 | 0.9885 (M) |
| 11 Benzyl alcohol | 79 | | 9.361 | 9.361 | (1.030) | 31121 | 1.00000 | 0.9544 |
| 12 1,2-Dichlorobenzene | 146 | | 9.470 | 9.470 | (1.042) | 51692 | 1.00000 | 1.035 |
| 13 2-Methylphenol | 108 | | 9.586 | 9.586 | (1.055) | 39561 | 1.00000 | 1.015 (H) |
| 15 4-Methylphenol | 108 | | 9.858 | 9.858 | (1.085) | 42555 | 1.00000 | 1.051 |
| 16 N-Nitroso-di-n-propylamine | 70 | | 9.920 | 9.920 | (1.091) | 27307 | 1.00000 | 0.9535 (H) |
| 22 2,4-Dimethylphenol | 107 | | 10.897 | 10.897 | (0.942) | 79464 | 2.00000 | 1.887 |
| 24 Benzoic acid | 105 | | 11.025 | 11.025 | (0.953) | 93734 | 4.00000 | 4.008 |
| 26 1,2,4-Trichlorobenzene | 180 | | 11.485 | 11.485 | (0.993) | 44529 | 1.00000 | 1.051 |
| * 27 Naphthalene-d8 | 136 | | 11.569 | 11.569 | (1.000) | 487226 | 4.00000 | |
| 30 Hexachlorobutadiene | 225 | | 11.979 | 11.979 | (1.035) | 27180 | 1.00000 | 1.055 |
| 39 Dimethylphthalate | 163 | | 14.703 | 14.703 | (0.967) | 90719 | 1.00000 | 1.166 |
| * 42 Acenaphthene-d10 | 162 | | 15.198 | 15.198 | (1.000) | 246588 | 4.00000 | |
| 50 Diethylphthalate | 149 | | 16.165 | 16.165 | (1.064) | 94036 | 1.00000 | 1.167 |
| 54 N-Nitrosodiphenylamine | 169 | | 16.550 | 16.550 | (0.907) | 70378 | 1.00000 | 1.094 |
| 57 Hexachlorobenzene | 284 | | 17.623 | 17.623 | (0.966) | 33438 | 1.00000 | 1.161 |

| Compounds | QUANT SIG | | | | | | AMOUNTS | |
|---------------------------|-----------|--|--------|--------|---------|----------|--------------------|-------------------|
| | MASS | | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| ===== | ===== | | ===== | ===== | ===== | ===== | ===== | ===== |
| 58 Pentachlorophenol | 266 | | 17.987 | 17.987 | (0.986) | 32326 | 2.00000 | 2.011 |
| * 59 Phenanthrene-d10 | 188 | | 18.250 | 18.250 | (1.000) | 479352 | 4.00000 | |
| \$ 66 Terphenyl-d14 | 244 | | 21.422 | 21.422 | (0.918) | 70157 | 1.00000 | 0.9791 |
| 67 Butylbenzylphthalate | 149 | | 22.367 | 22.367 | (0.958) | 64846 | 1.00000 | 1.108 |
| * 69 Chrysene-d12 | 240 | | 23.343 | 23.343 | (1.000) | 439791 | 4.00000 | |
| * 77 Perylene-d12 | 264 | | 26.029 | 26.029 | (1.000) | 505700 | 4.00000 | |
| 79 Dibenzo(a,h)anthracene | 278 | | 28.790 | 28.790 | (1.106) | 164239 | 1.00000 | 0.9950 |
| 90 N-Nitrosodimethylamine | 74 | | 4.678 | 4.678 | (0.515) | 50473 | 2.00000 | 1.941 |

QC Flag Legend

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

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i
 Lab File ID: NT1003222303S.D
 Lab Smp Id: SLC0407-ICV1
 Analysis Type: SV
 Quant Type: ISTD
 Operator: JGR
 Method File: \\target\share\chem3\nt10.i\20230322.b\SIM.b\SIMABN2.m
 Misc Info:

Calibration Date: 22-MAR-2023
 Calibration Time: 12:38
 Level: LOW
 Sample Type: AIR

Test Mode:
 Use Last Continuing Calibrator.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|------------|---------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 135191 | 67596 | 270382 | 135191 | 0.00 |
| 27 Naphthalene-d8 | 487226 | 243613 | 974452 | 487226 | 0.00 |
| 42 Acenaphthene-d10 | 246588 | 123294 | 493176 | 246588 | 0.00 |
| 59 Phenanthrene-d10 | 479352 | 239676 | 958704 | 479352 | 0.00 |
| 69 Chrysene-d12 | 439791 | 219896 | 879582 | 439791 | 0.00 |
| 77 Perylene-d12 | 505700 | 252850 | 1011400 | 505700 | 0.00 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 9.09 | 8.59 | 9.59 | 9.09 | 0.00 |
| 27 Naphthalene-d8 | 11.57 | 11.07 | 12.07 | 11.57 | 0.00 |
| 42 Acenaphthene-d10 | 15.20 | 14.70 | 15.70 | 15.20 | 0.00 |
| 59 Phenanthrene-d10 | 18.25 | 17.75 | 18.75 | 18.25 | 0.00 |
| 69 Chrysene-d12 | 23.34 | 22.84 | 23.84 | 23.34 | 0.00 |
| 77 Perylene-d12 | 26.03 | 25.53 | 26.53 | 26.03 | 0.00 |

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

REVIEW SUMMARY FOR FILE - NT1003222303S.D

Lab ID: SLC0407-ICV1

nt10.i, 20230322.b\SIM.b\SIMABN2.m, 22-MAR-2023 18:20

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

No RRT check. Ccal file.

On Column LOD for nt10.i, SIM.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

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

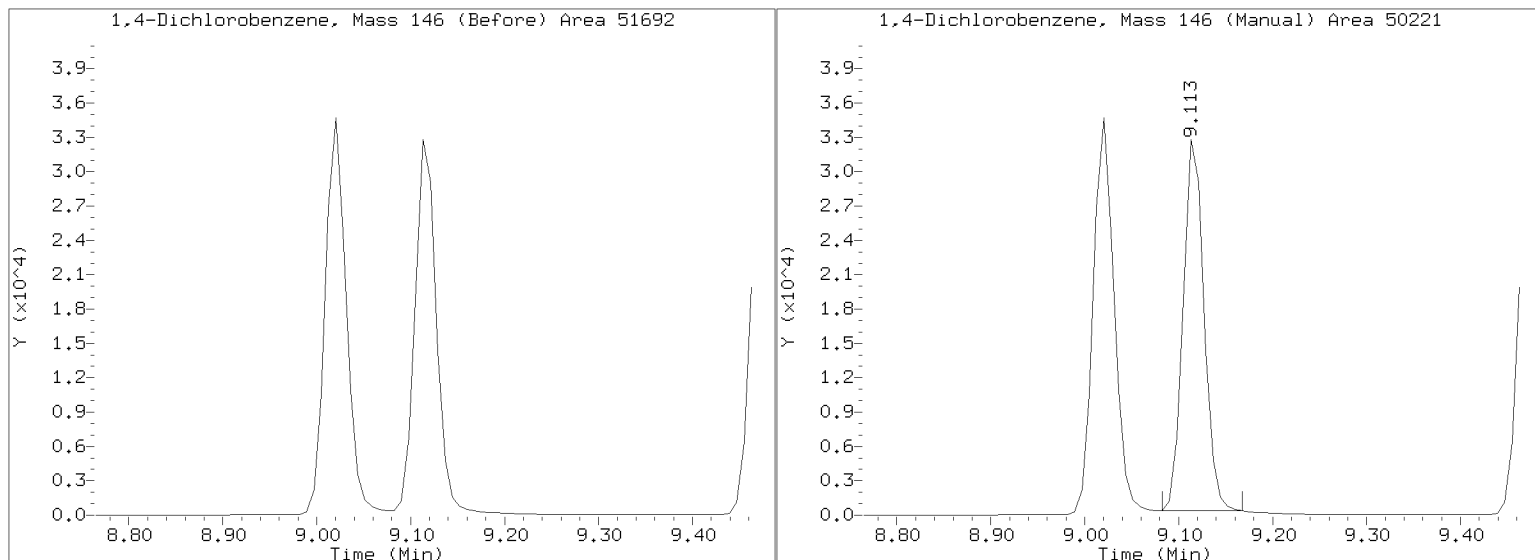
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230322.b/SIM.b/NT1003222303S.D

Injection Date: 22-MAR-2023 18:20

Lab ID:SLC0407-ICV1 Client ID:

Report Date: 03/25/2023 13:23



Q-FLAG SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230322.b\SIM.b

Instrument: nt10.i Date: 22-MAR-2023 Method: SIM.b\SIMABN2.m

INITIAL CAL: 15-MAR-2023

| Compound | %RSD or R ² |
|------------|------------------------|
| ----- | |
| NO Q-FLAGS | |
| ----- | |

ICV CAL: NT1003222303S.D 22-MAR-2023 18:20

| Compound | %D |
|------------|----|
| ----- | |
| NO Q-FLAGS | |
| ----- | |



INITIAL CALIBRATION CHECK
EPA 8270E-SIM

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: NT10

Calibration: GC00049

Lab File ID: NT1003222318S.D

Calibration Date: 03/15/2023

Sequence: SLC0407

Injection Date: 03/23/23

Lab Sample ID: SLC0407-ICV2

Injection Time: 03:52

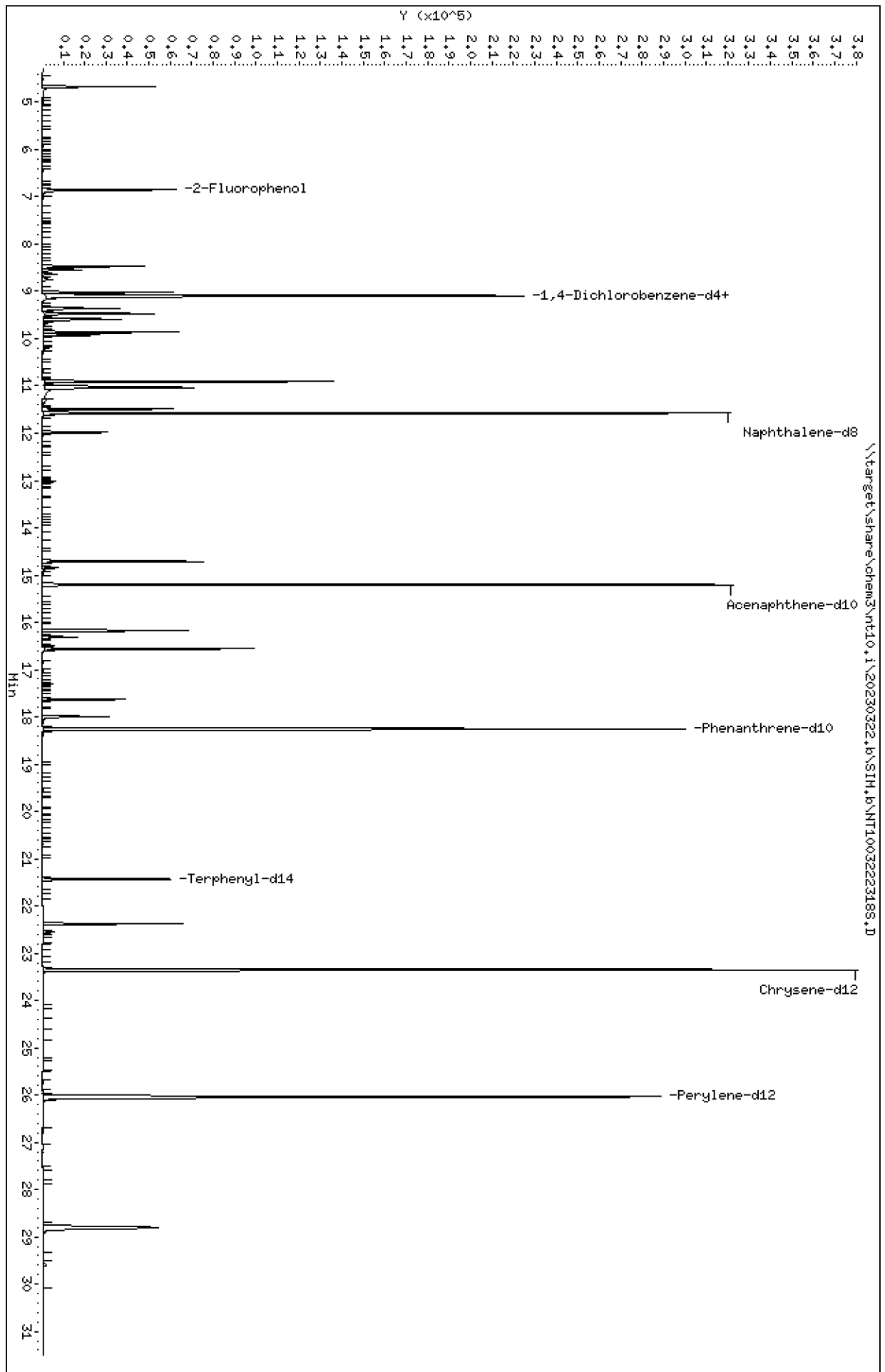
Sequence Name: ABN 1

| COMPOUND | TYPE | CONC. (ug/mL) | | RESPONSE FACTOR | | | % DRIFT/DIFF | |
|------------------------|------|---------------|------|-----------------|-----------|-----|--------------|-------|
| | | STD | ICV | ICAL | ICV | MIN | ICV | LIMIT |
| 1,4-Dichlorobenzene | A | 1.0000 | 1.0 | 1.5031980 | 1.5272120 | | 1.6 | +/-20 |
| 1,2-Dichlorobenzene | A | 1.0000 | 1.0 | 1.4783140 | 1.5003380 | | 1.5 | +/-20 |
| Benzyl Alcohol | A | 1.0000 | 1.0 | 0.9647610 | 0.9562513 | | -0.9 | +/-20 |
| Benzoic acid | A | 4.0000 | 4.2 | 0.1358970 | 0.2018991 | | 5.1 | +/-20 |
| 2,4-Dimethylphenol | A | 2.0000 | 1.9 | 0.3457498 | 0.3285362 | | -5.0 | +/-20 |
| 1,2,4-Trichlorobenzene | A | 1.0000 | 1.1 | 0.3478148 | 0.3707206 | | 6.6 | +/-20 |
| N-Nitrosodiphenylamine | A | 1.0000 | 1.1 | 0.5366720 | 0.5779157 | | 7.7 | +/-20 |
| Pentachlorophenol | A | 2.0000 | 2.1 | 0.0934250 | 0.1375217 | | 2.5 | +/-20 |
| 2-Fluorophenol | A | 1.5000 | 1.58 | 1.2129820 | 1.2785320 | | 5.4 | +/-20 |
| p-Terphenyl-d14 | A | 1.0000 | 1.02 | 0.6517430 | 0.6627039 | | 1.7 | +/-20 |
| 1,4-Dichlorobenzene-d4 | A | 4.0000 | 4.0 | 46867.7500 | 1.0000 | | 0.0 | |
| Naphthalene-d8 | A | 4.0000 | 4.0 | 167312.2000 | 1.0000 | | 0.0 | |
| Acenaphthene-d10 | A | 4.0000 | 4.0 | 81972.4400 | 1.0000 | | 0.0 | |
| Phenanthrene-d10 | A | 4.0000 | 4.0 | 150166.2000 | 1.0000 | | 0.0 | |
| Chrysene-d12 | A | 4.0000 | 4.0 | 110890.6000 | 1.0000 | | 0.0 | |
| Perylene-d12 | A | 4.0000 | 4.0 | 124876.5000 | 1.0000 | | 0.0 | |

* Values outside of QC limits

Data File: \\target\share\chem3\nt10.1\20230322.16\SIM.6\NT1003222318S.D
 Date : 23-MAR-2023 03:52
 Client ID:
 Sample Info: SED-OCV31H
 Volume Injected (uL): 1.0
 Column phase: ZB-5msi

Instrument: nt10.1
 Operator: JGR
 Column diameter: 0.25



ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230322.b\SIM.b\NT1003222318S.D
 Lab Smp Id: SLC0407-ICV2
 Inj Date : 23-MAR-2023 03:52 MS Autotune Date: 16-JAN-2023 17:42
 Operator : JGR Inst ID: nt10.i
 Smp Info : SEQ-CCVSIM
 Misc Info :
 Comment :
 Method : \\target\share\chem3\nt10.i\20230322.b\SIM.b\SIMABN2.m
 Meth Date : 25-Mar-2023 16:11 yev Quant Type: ISTD
 Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D
 Als bottle: 3 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: PSDDA.sub
 Target Version: 4.14
 Processing Host: ORGDATA102

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

| Name | Value | Description |
|---------------|----------|---------------------------------|
| DF | 1.000 | Dilution Factor |
| Vo | 1000.000 | Volume of sample extracted (mL) |
| Vt | 1000.000 | Volume of final extract (uL) |
| Vi | 1.000 | Volume injected (uL) |
| Uf | 1.000 | ng unit correction factor |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT | SIG | RT | EXP RT | REL RT | RESPONSE | AMOUNTS | |
|-------------------------------|-------|-----|--------|--------|---------|----------|---------|---------|
| | | | | | | | CAL-AMT | ON-COL |
| | MASS | | | | | | (ug/mL) | (ug/mL) |
| \$ 1 2-Fluorophenol | 112 | | 6.856 | 6.856 | (0.754) | 67366 | 1.50000 | 1.581 |
| 3 Phenol | 94 | | 8.471 | 8.471 | (0.932) | 57865 | 1.00000 | 0.9899 |
| 7 1,3-Dichlorobenzene | 146 | | 9.020 | 9.020 | (0.992) | 55617 | 1.00000 | 1.017 |
| * 8 1,4-Dichlorobenzene-d4 | 152 | | 9.090 | 9.090 | (1.000) | 140507 | 4.00000 | |
| 9 1,4-Dichlorobenzene | 146 | | 9.121 | 9.121 | (1.003) | 53646 | 1.00000 | 1.016 |
| 11 Benzyl alcohol | 79 | | 9.361 | 9.361 | (1.030) | 33590 | 1.00000 | 0.9912 |
| 12 1,2-Dichlorobenzene | 146 | | 9.470 | 9.470 | (1.042) | 52702 | 1.00000 | 1.015 |
| 13 2-Methylphenol | 108 | | 9.586 | 9.586 | (1.055) | 42933 | 1.00000 | 1.060 |
| 15 4-Methylphenol | 108 | | 9.858 | 9.858 | (1.085) | 45858 | 1.00000 | 1.090 |
| 16 N-Nitroso-di-n-propylamine | 70 | | 9.920 | 9.920 | (1.091) | 29826 | 1.00000 | 1.002 |
| 22 2,4-Dimethylphenol | 107 | | 10.906 | 10.906 | (0.942) | 82001 | 2.00000 | 1.900 |
| 24 Benzoic acid | 105 | | 11.033 | 11.033 | (0.953) | 100786 | 4.00000 | 4.203 |
| 26 1,2,4-Trichlorobenzene | 180 | | 11.492 | 11.492 | (0.993) | 46265 | 1.00000 | 1.066 |
| * 27 Naphthalene-d8 | 136 | | 11.577 | 11.577 | (1.000) | 499190 | 4.00000 | |
| 30 Hexachlorobutadiene | 225 | | 11.979 | 11.979 | (1.035) | 28412 | 1.00000 | 1.077 |
| 39 Dimethylphthalate | 163 | | 14.711 | 14.711 | (0.967) | 91708 | 1.00000 | 1.161 |
| * 42 Acenaphthene-d10 | 162 | | 15.206 | 15.206 | (1.000) | 250303 | 4.00000 | |
| 50 Diethylphthalate | 149 | | 16.172 | 16.172 | (1.064) | 99387 | 1.00000 | 1.215 |
| 54 N-Nitrosodiphenylamine | 169 | | 16.558 | 16.558 | (0.907) | 71791 | 1.00000 | 1.077 |
| 57 Hexachlorobenzene | 284 | | 17.631 | 17.631 | (0.966) | 35020 | 1.00000 | 1.173 |

| Compounds | QUANT SIG | | | | | | AMOUNTS | |
|---------------------------|-----------|--|--------|--------|---------|----------|--------------------|-------------------|
| | MASS | | RT | EXP RT | REL RT | RESPONSE | CAL-AMT (ug/mL) | ON-COL (ug/mL) |
| ===== | ===== | | ===== | ===== | ===== | ===== | ===== | ===== |
| 58 Pentachlorophenol | 266 | | 17.995 | 17.995 | (0.986) | 34167 | 2.00000 | 2.050 |
| * 59 Phenanthrene-d10 | 188 | | 18.258 | 18.258 | (1.000) | 496896 | 4.00000 | |
| \$ 66 Terphenyl-d14 | 244 | | 21.438 | 21.438 | (0.918) | 77178 | 1.00000 | 1.017 |
| 67 Butylbenzylphthalate | 149 | | 22.375 | 22.375 | (0.958) | 75143 | 1.00000 | 1.211 |
| * 69 Chrysene-d12 | 240 | | 23.350 | 23.350 | (1.000) | 465837 | 4.00000 | |
| * 77 Perylene-d12 | 264 | | 26.037 | 26.037 | (1.000) | 551078 | 4.00000 | |
| 79 Dibenzo(a,h)anthracene | 278 | | 28.798 | 28.798 | (1.106) | 173728 | 1.00000 | 0.9657 |
| 90 N-Nitrosodimethylamine | 74 | | 4.670 | 4.670 | (0.514) | 52897 | 2.00000 | 1.957 |

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i
 Lab File ID: NT1003222318S.D
 Lab Smp Id: SLC0407-ICV2
 Analysis Type: SV
 Quant Type: ISTD
 Operator: JGR
 Method File: \\target\share\chem3\nt10.i\20230322.b\SIM.b\SIMABN2.m
 Misc Info:

Calibration Date: 22-MAR-2023
 Calibration Time: 18:20
 Level: LOW
 Sample Type: AIR

Test Mode:
 Use Last Continuing Calibrator.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|------------|---------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 135191 | 67596 | 270382 | 140507 | 3.93 |
| 27 Naphthalene-d8 | 487226 | 243613 | 974452 | 499190 | 2.46 |
| 42 Acenaphthene-d10 | 246588 | 123294 | 493176 | 250303 | 1.51 |
| 59 Phenanthrene-d10 | 479352 | 239676 | 958704 | 496896 | 3.66 |
| 69 Chrysene-d12 | 439791 | 219896 | 879582 | 465837 | 5.92 |
| 77 Perylene-d12 | 505700 | 252850 | 1011400 | 551078 | 8.97 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 9.09 | 8.59 | 9.59 | 9.09 | 0.00 |
| 27 Naphthalene-d8 | 11.57 | 11.07 | 12.07 | 11.58 | 0.07 |
| 42 Acenaphthene-d10 | 15.20 | 14.70 | 15.70 | 15.21 | 0.05 |
| 59 Phenanthrene-d10 | 18.25 | 17.75 | 18.75 | 18.26 | 0.04 |
| 69 Chrysene-d12 | 23.34 | 22.84 | 23.84 | 23.35 | 0.03 |
| 77 Perylene-d12 | 26.03 | 25.53 | 26.53 | 26.04 | 0.03 |

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

REVIEW SUMMARY FOR FILE - NT1003222318S.D

Lab ID: SLC0407-ICV2

nt10.i, 20230322.b\SIM.b\SIMABN2.m, 23-MAR-2023 03:52

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

No RRT check. Ccal file.

On Column LOD for nt10.i, SIM.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

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

Q-FLAG SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230322.b\SIM.b

Instrument: nt10.i Date: 23-MAR-2023 Method: SIM.b\SIMABN2.m

INITIAL CAL: 15-MAR-2023

| Compound | %RSD or R ² |
|------------|------------------------|
| ----- | |
| NO Q-FLAGS | |
| ----- | |

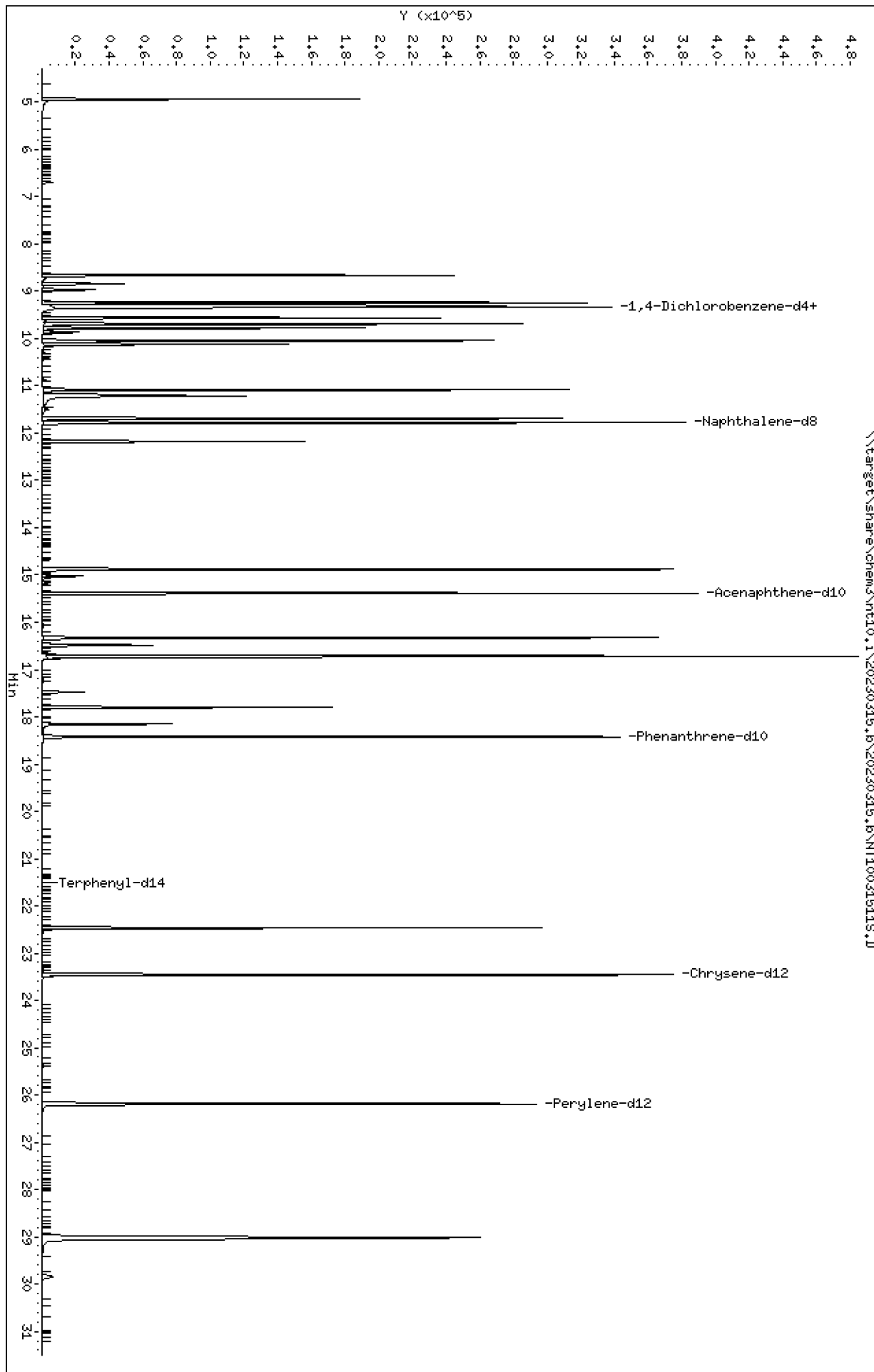
ICV CAL: NT1003222318S.D 23-MAR-2023 03:52

| Compound | %D |
|----------------------|------|
| ----- | |
| Diethylphthalate | 21.5 |
| Butylbenzylphthalate | 21.1 |
| ----- | |

Data File: \\target\share\chem3\nt10.1\20230315.1\20230315.1\NT100315115.D
Date: 16-MAR-2023 02:16
Client ID:
Sample Info: SLC0238-SCV1
Volume Injected (uL): 1.0
Column phase: ZB-5msi

Instrument: nt10.1
Operator: JGR
Column diameter: 0.25

\\target\share\chem3\nt10.1\20230315.1\20230315.1\NT100315115.D



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

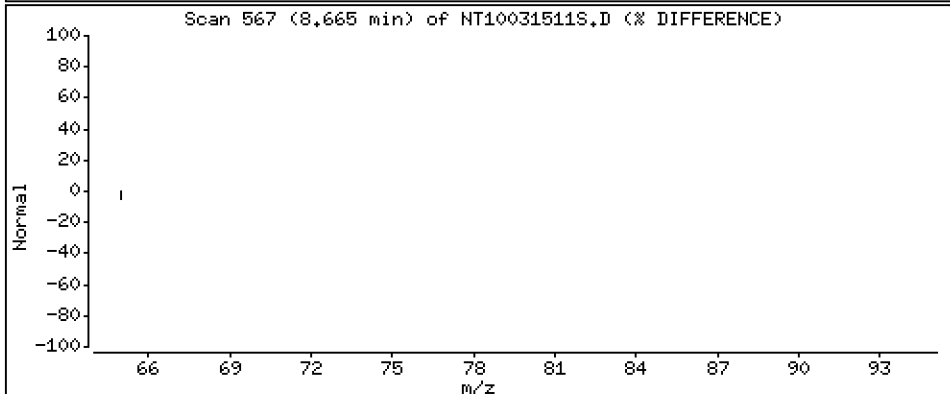
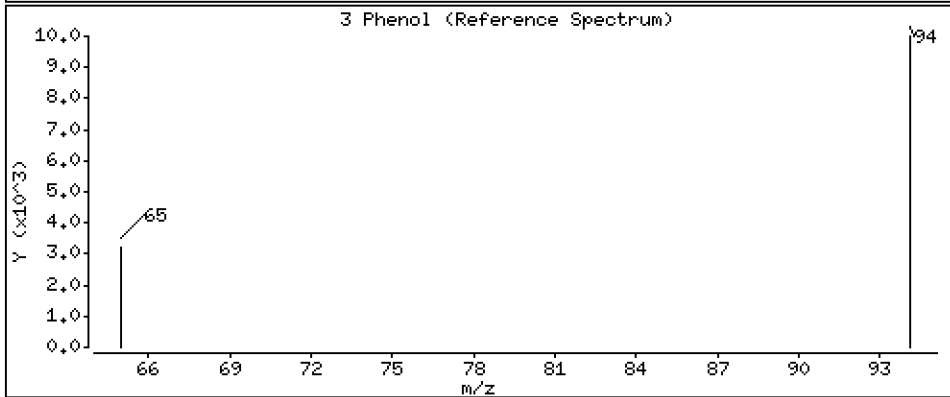
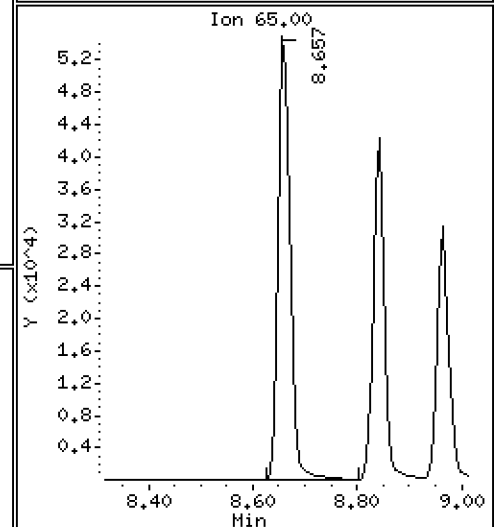
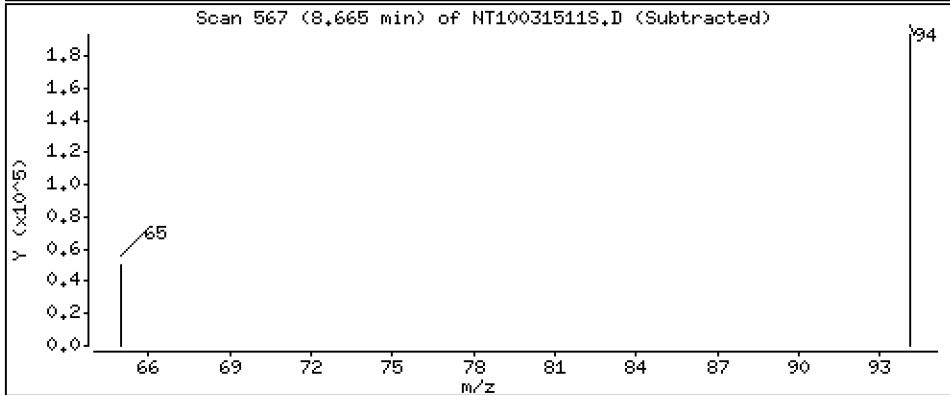
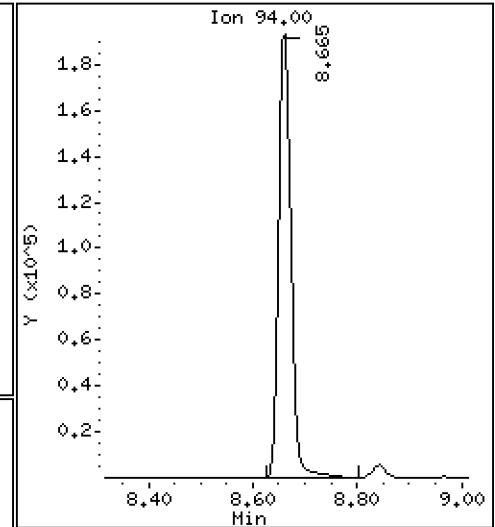
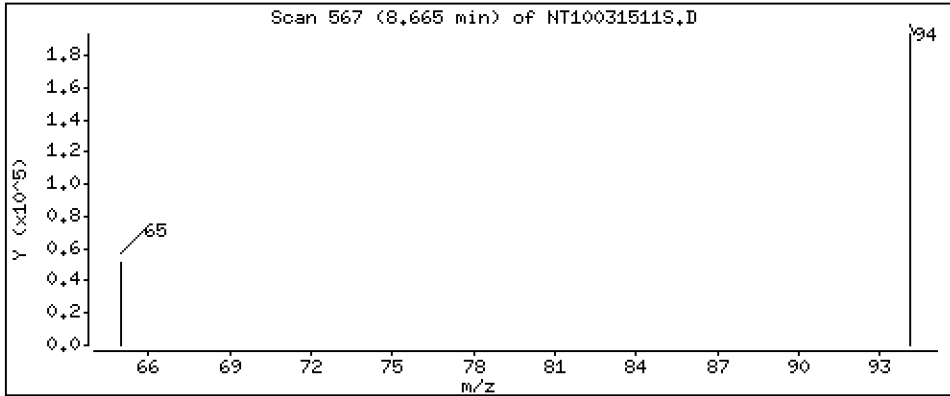
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

3 Phenol

Concentration: 4.373 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

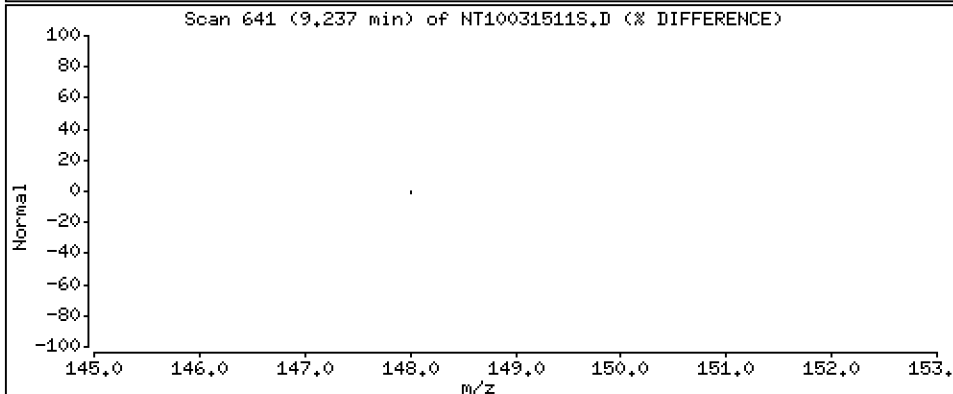
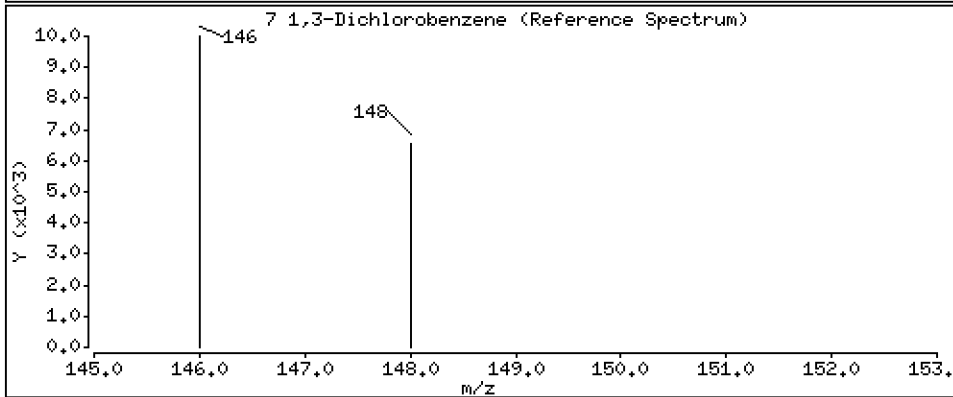
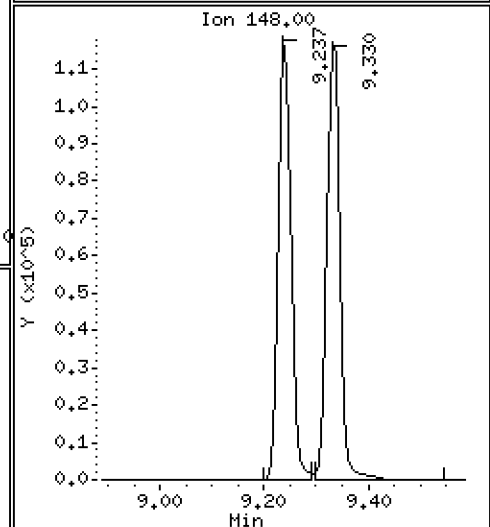
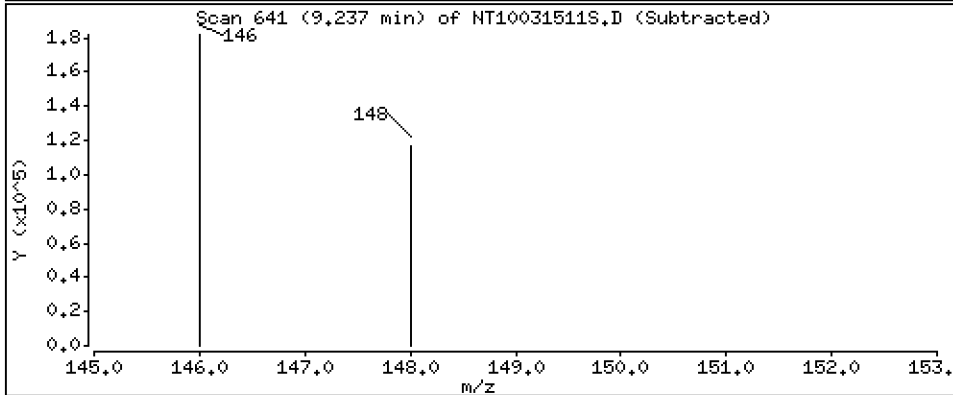
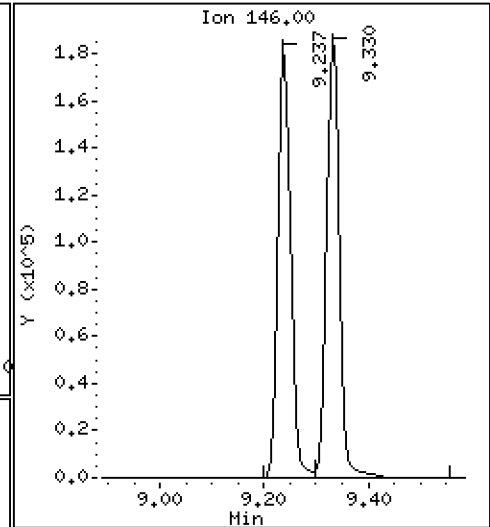
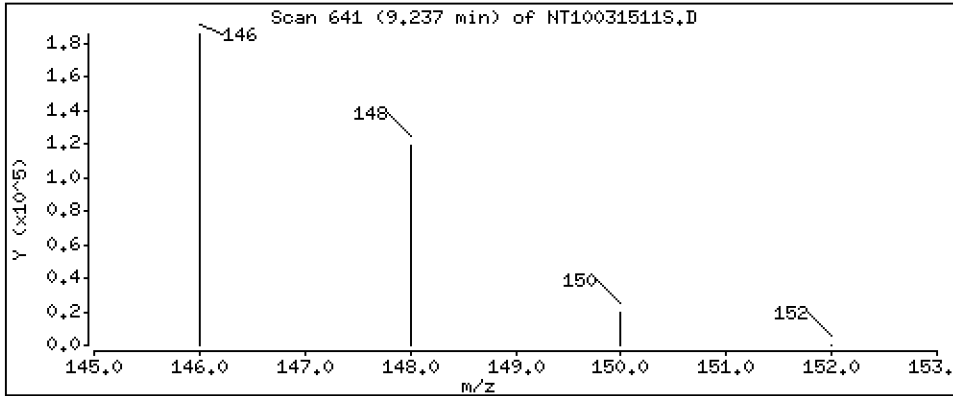
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

7 1,3-Dichlorobenzene

Concentration: 4.643 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

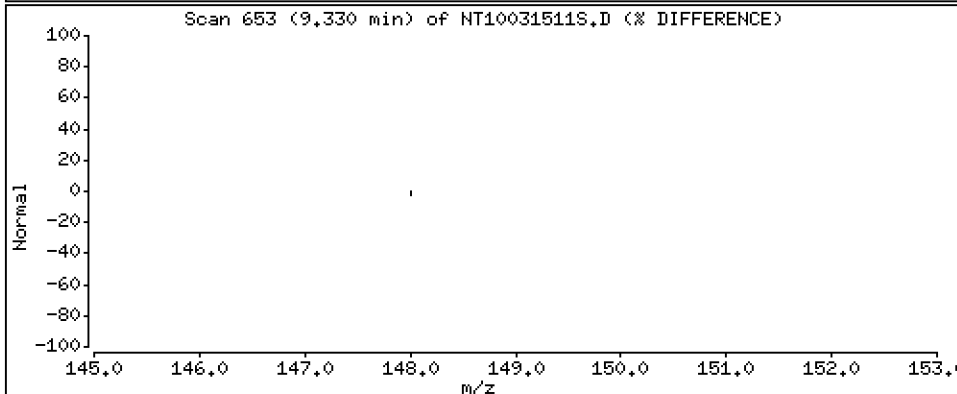
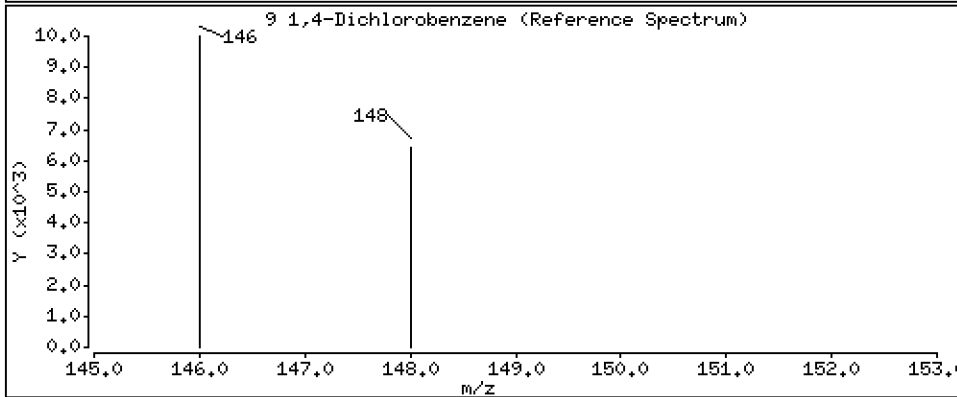
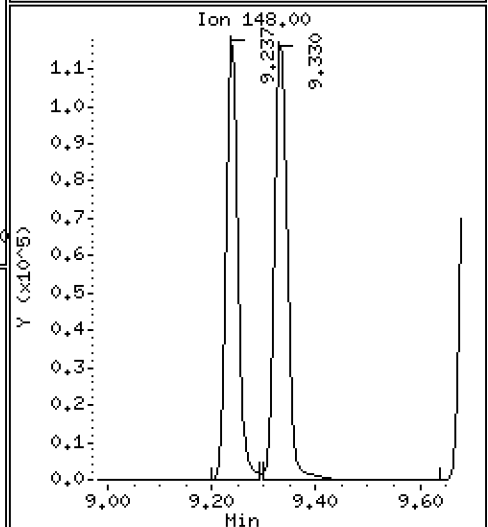
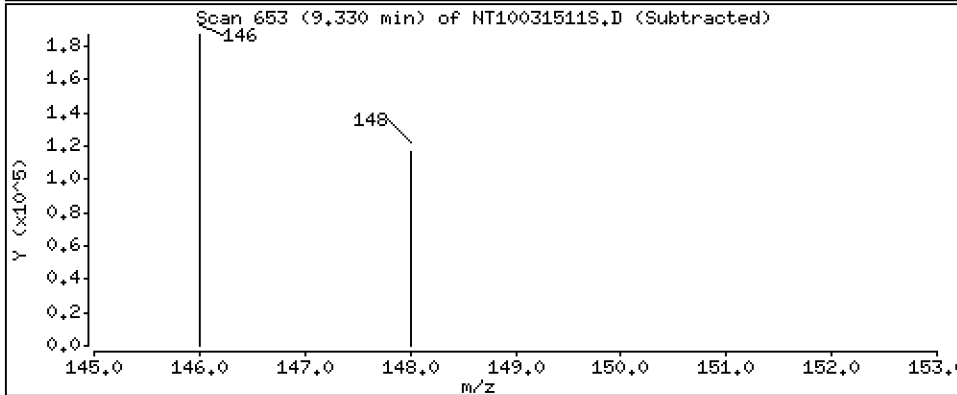
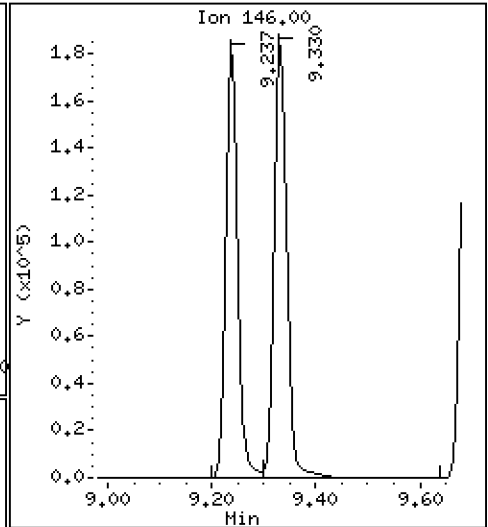
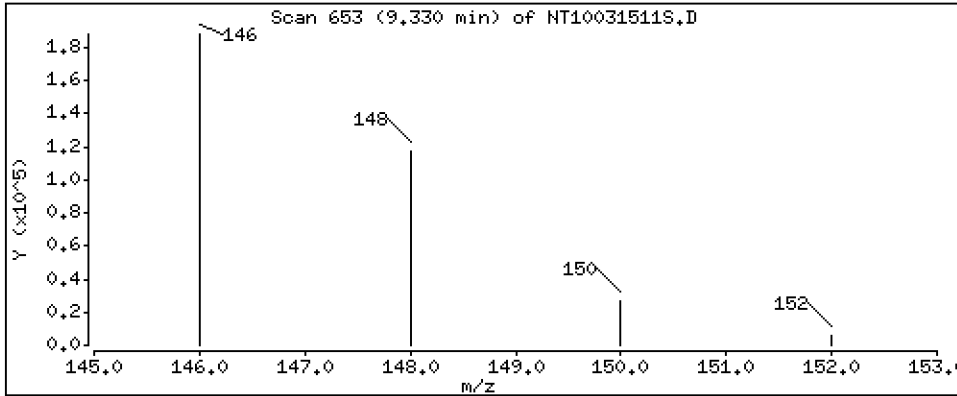
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

9 1,4-Dichlorobenzene

Concentration: 4.838 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

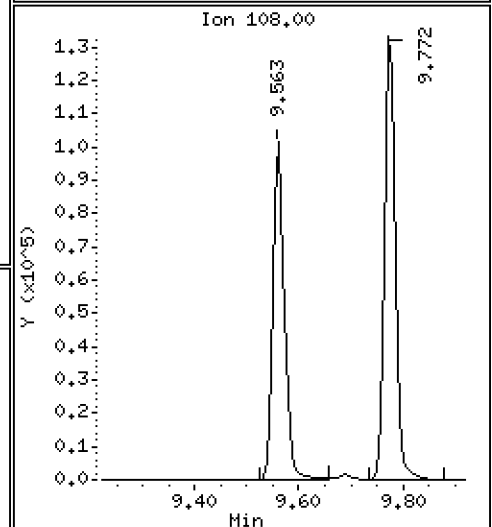
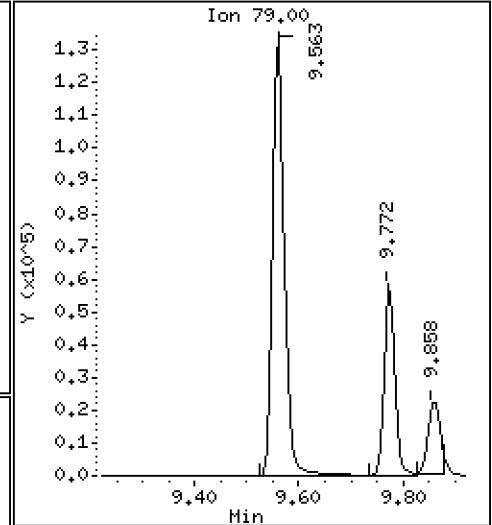
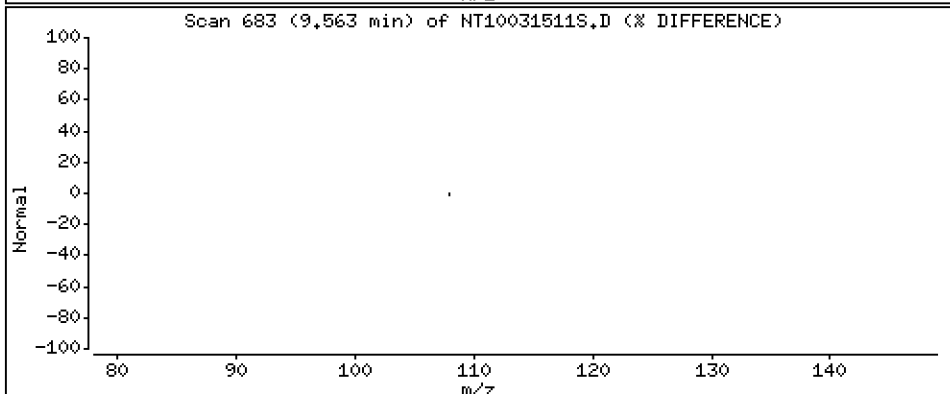
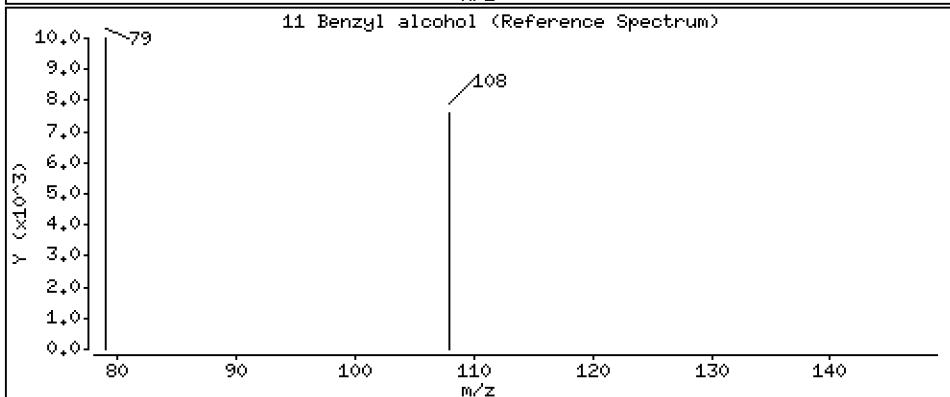
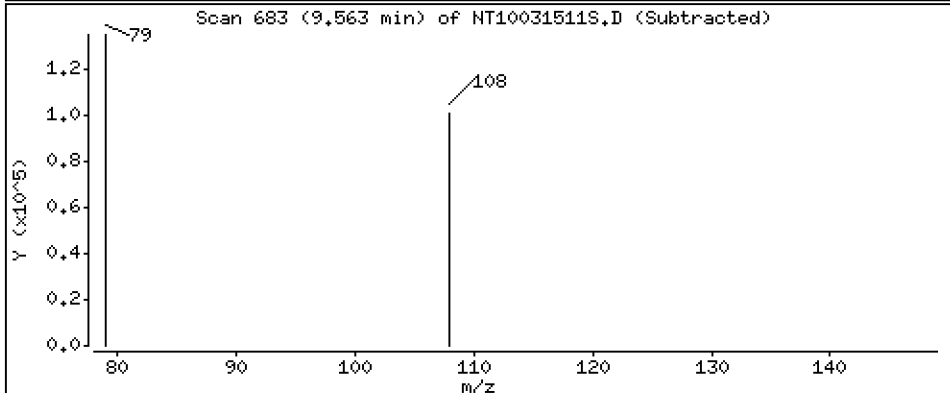
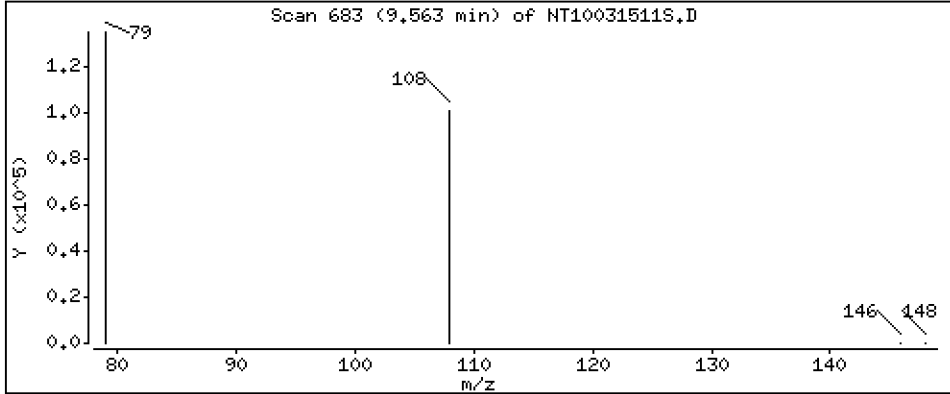
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 5.181 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

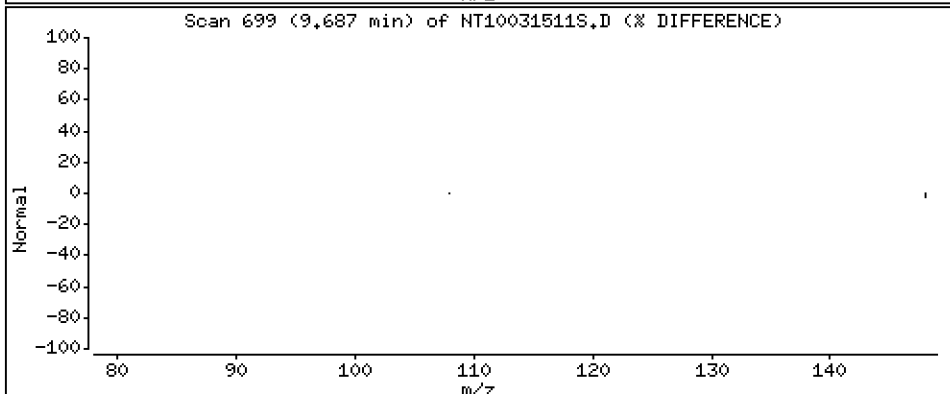
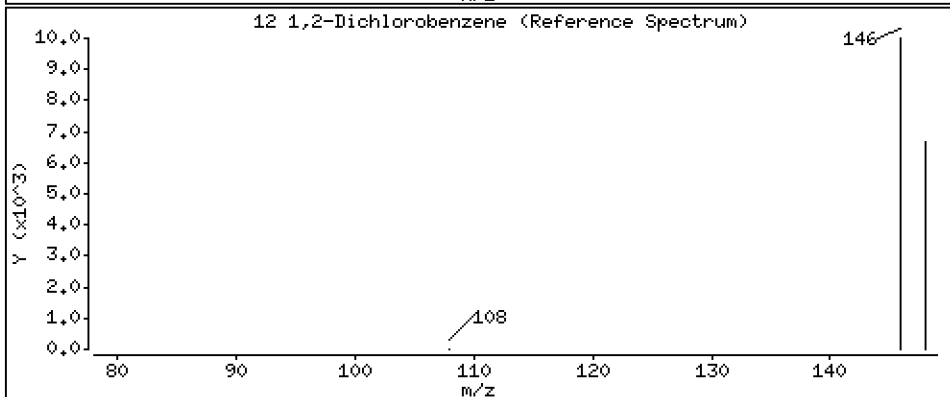
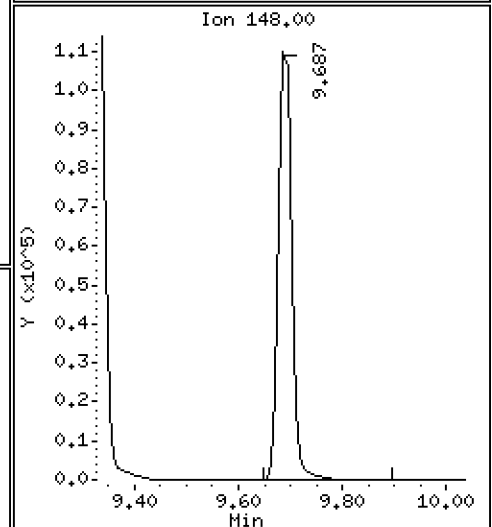
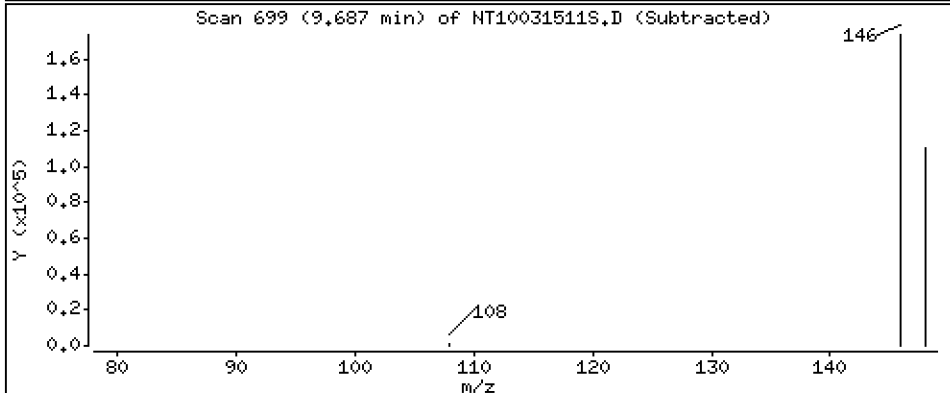
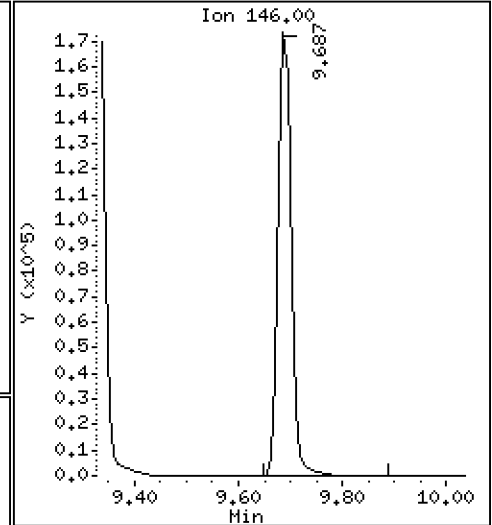
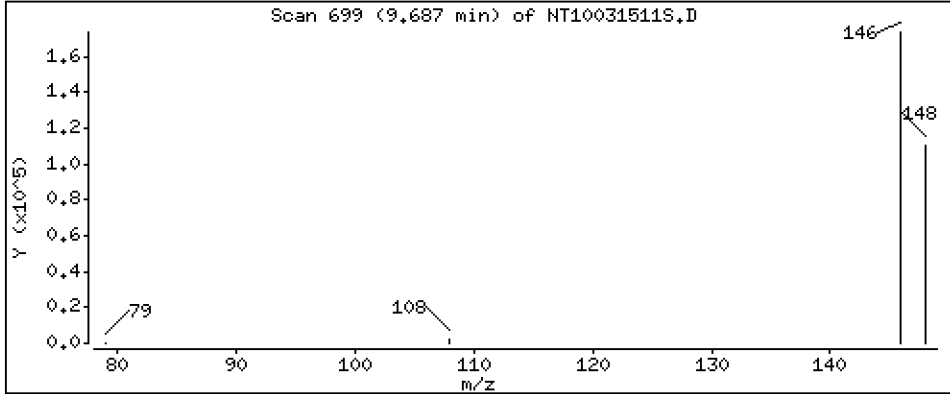
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

12 1,2-Dichlorobenzene

Concentration: 4.679 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

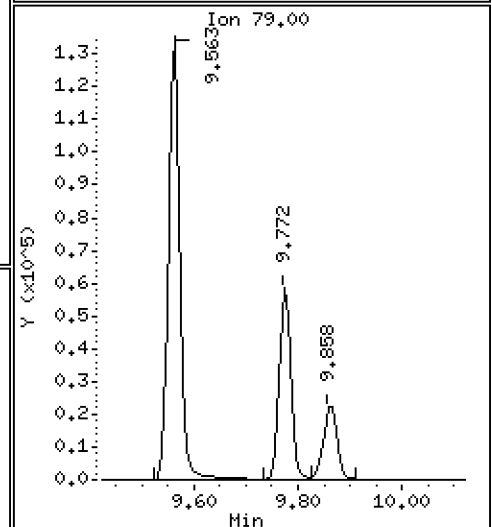
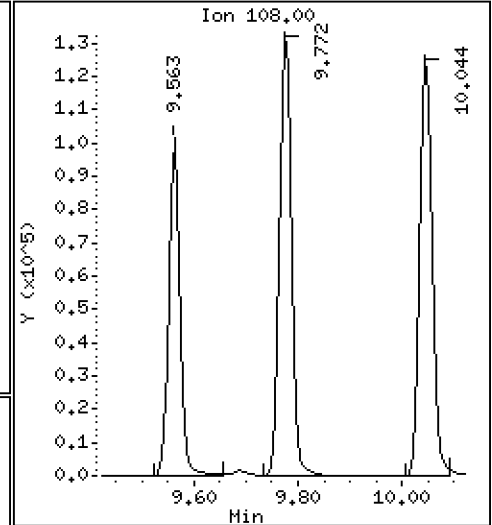
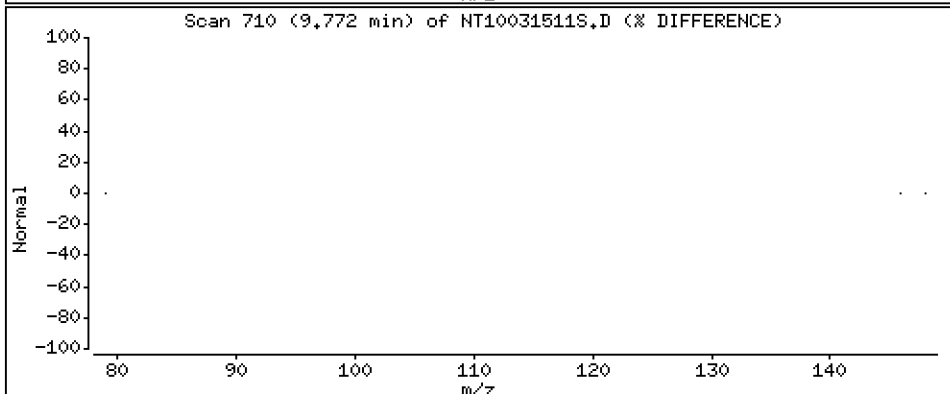
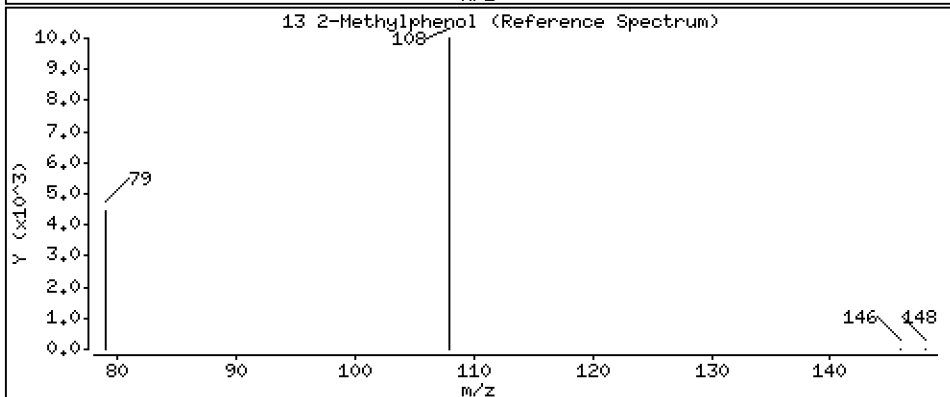
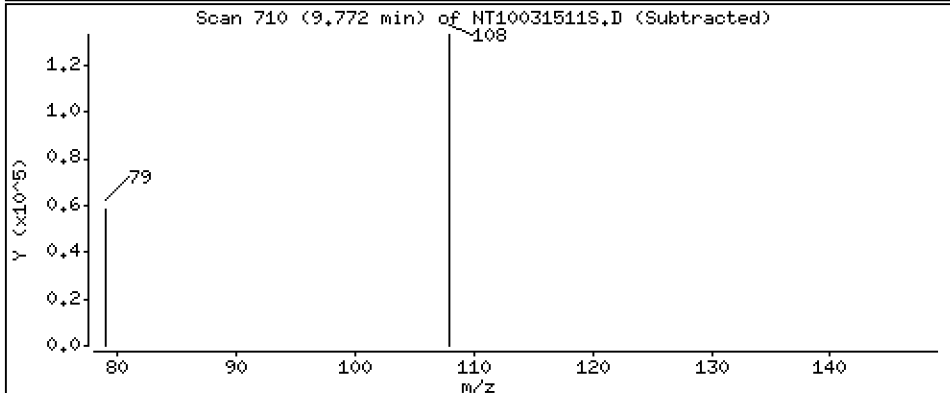
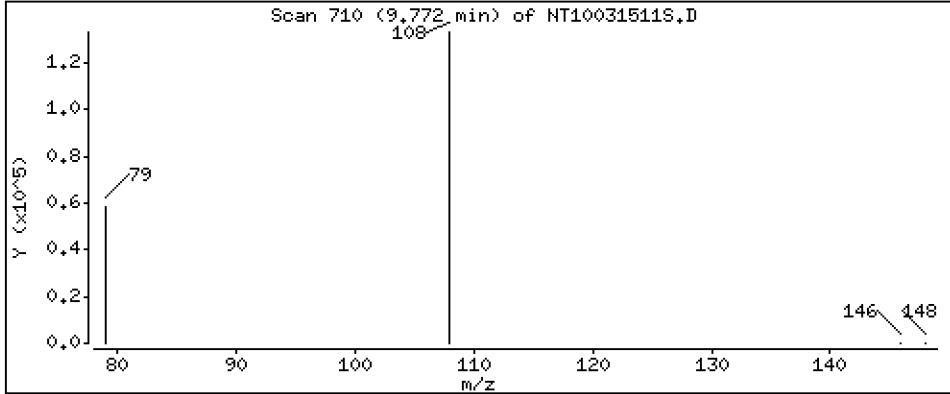
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

13 2-Methylphenol

Concentration: 4.197 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

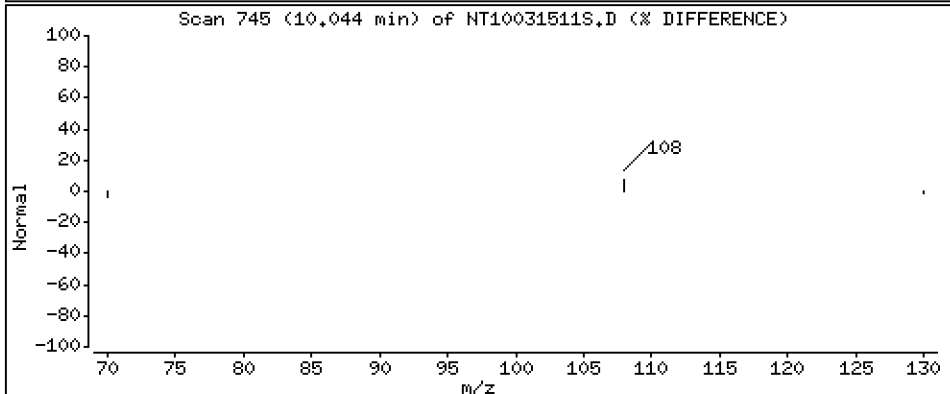
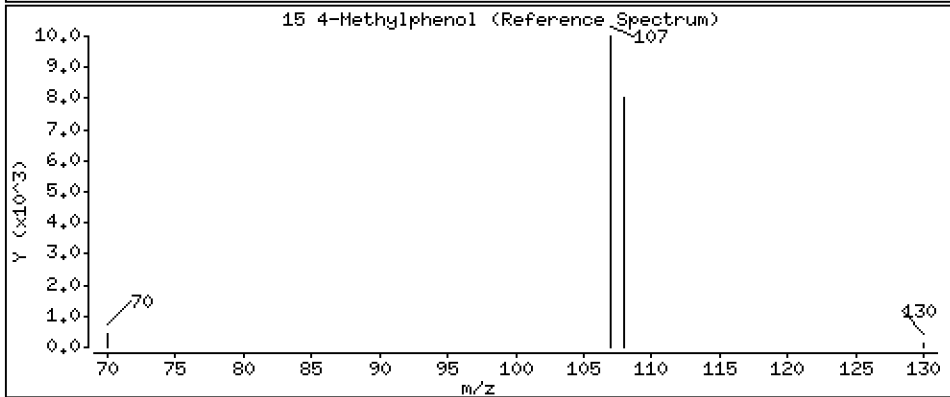
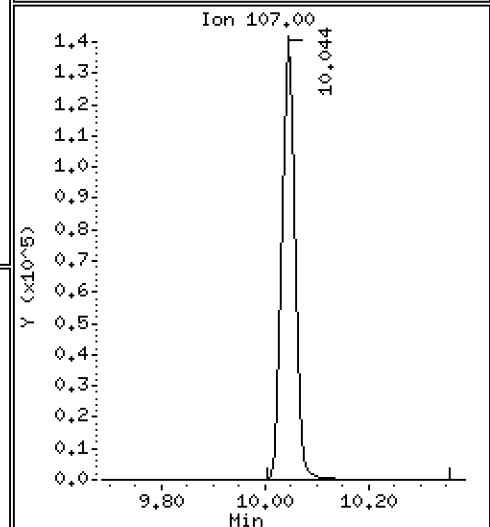
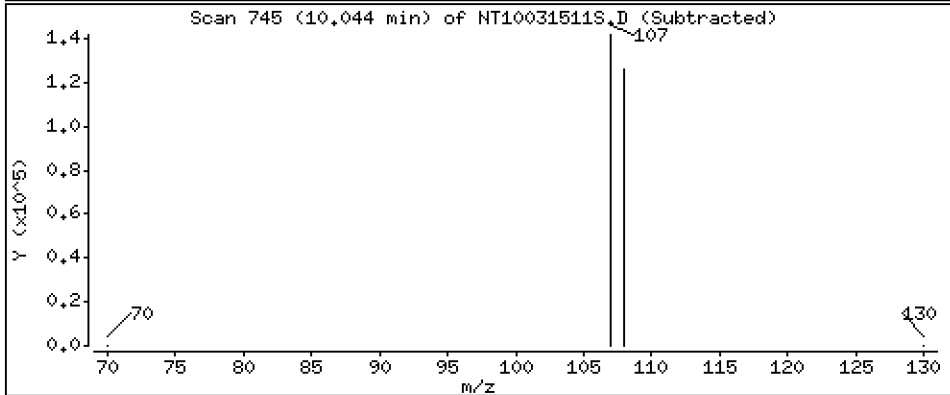
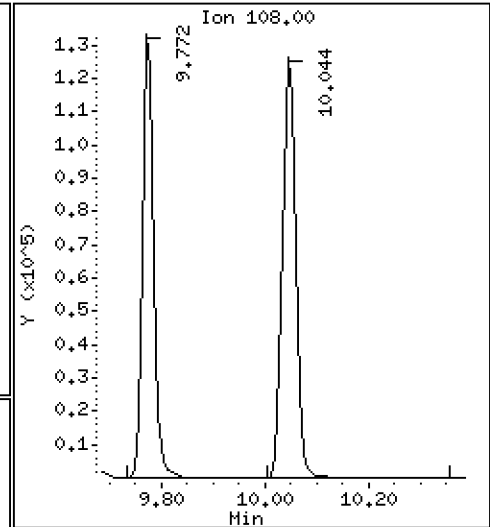
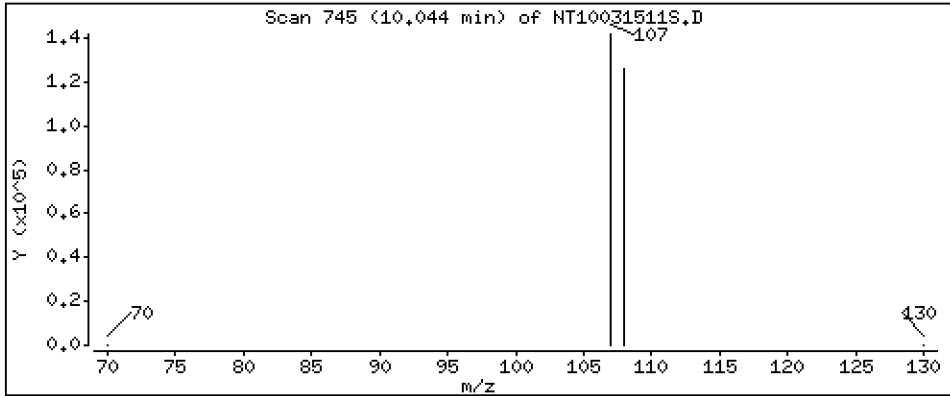
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 4.463 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

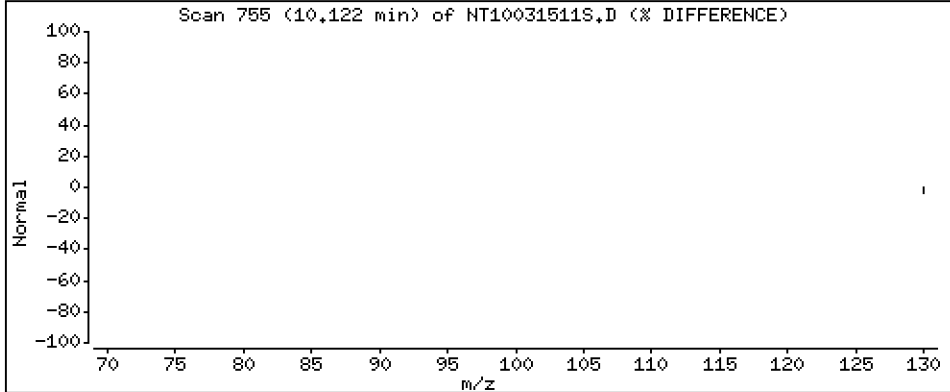
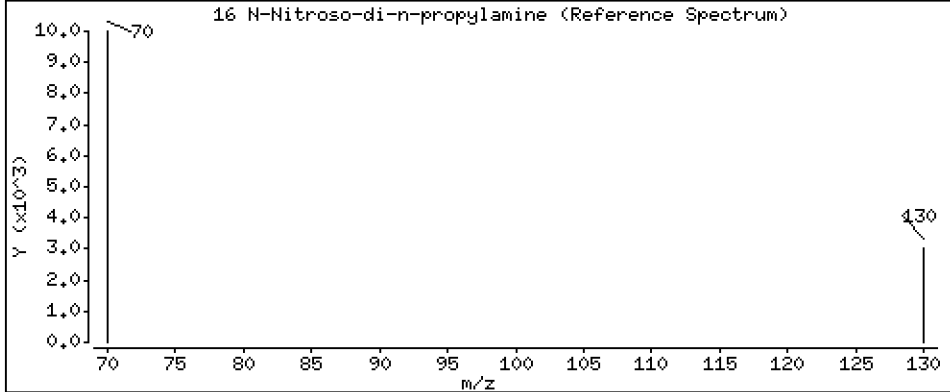
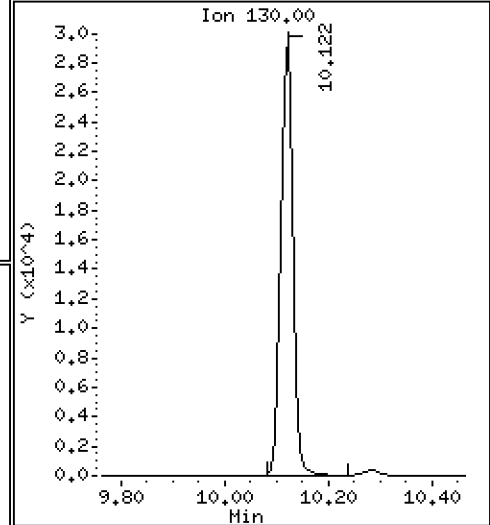
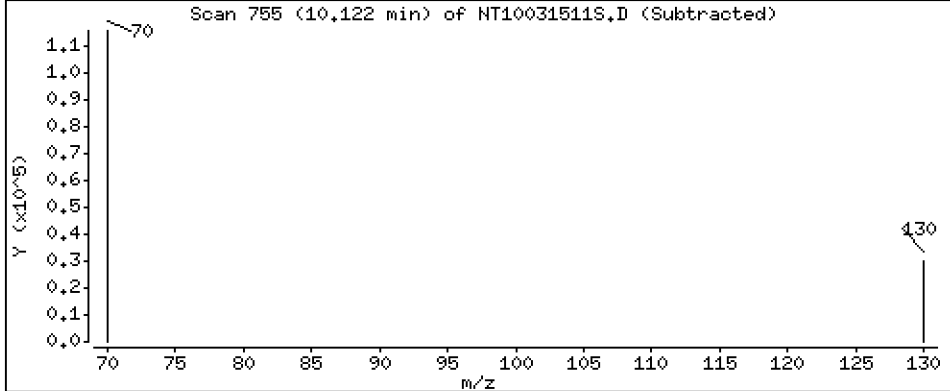
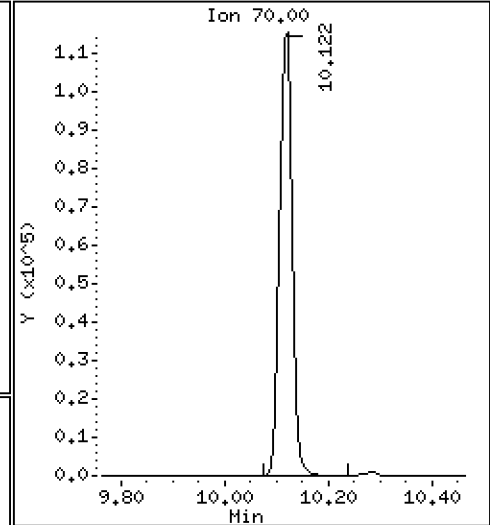
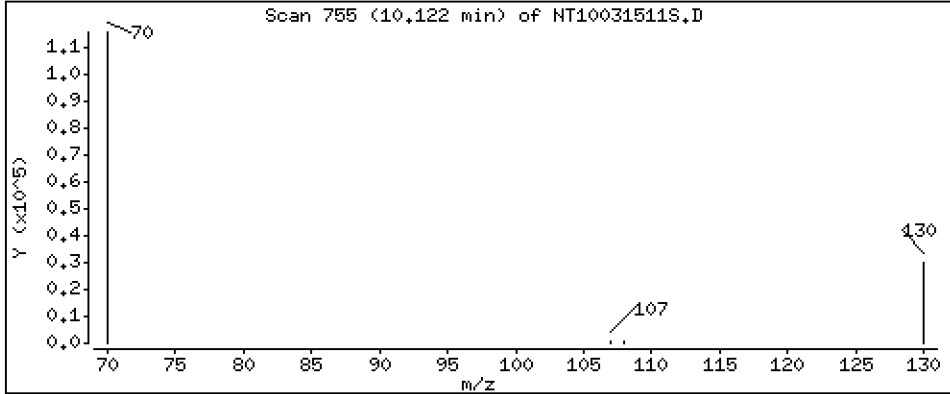
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

16 N-Nitroso-di-n-propylamine

Concentration: 5,282 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

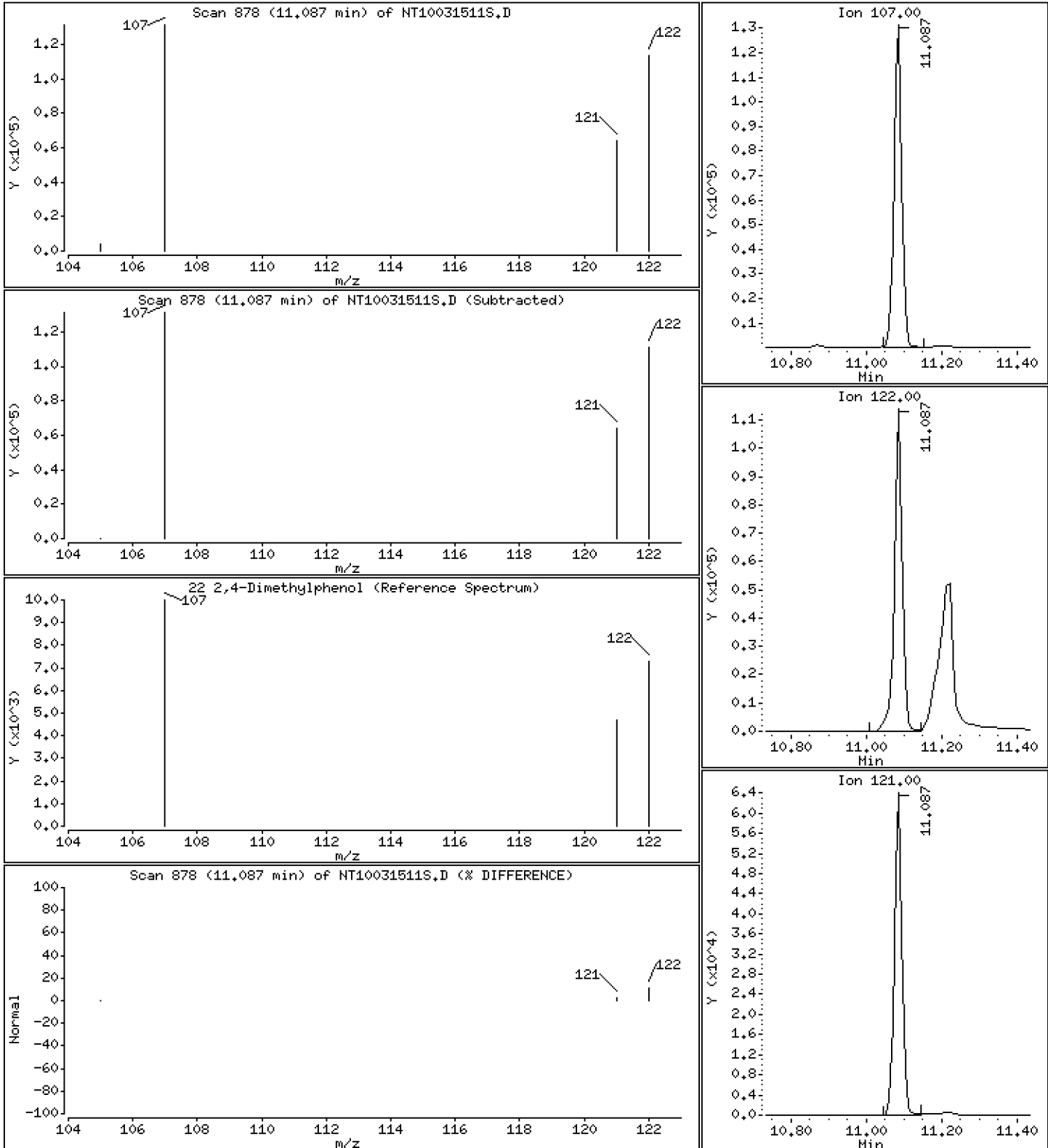
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

22 2,4-Dimethylphenol

Concentration: 3,660 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

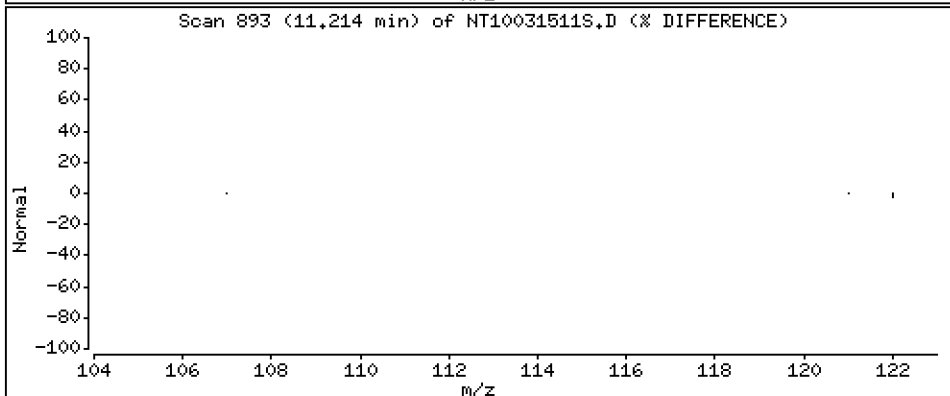
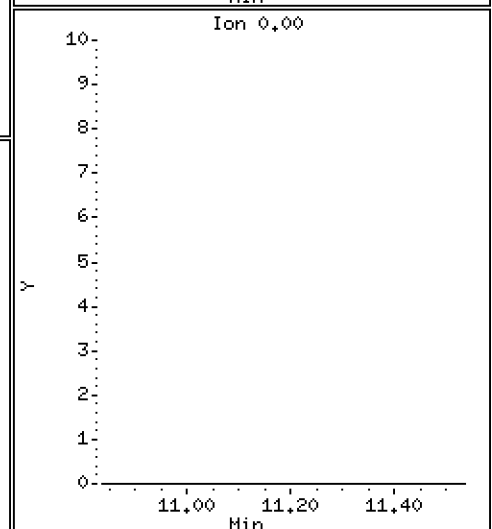
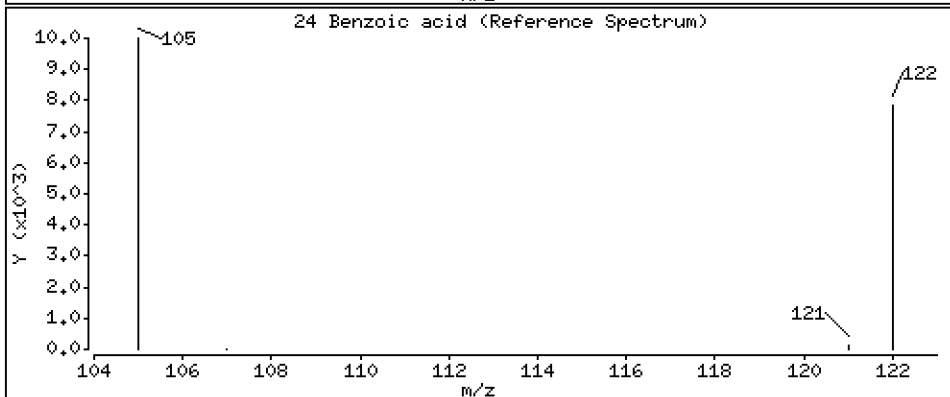
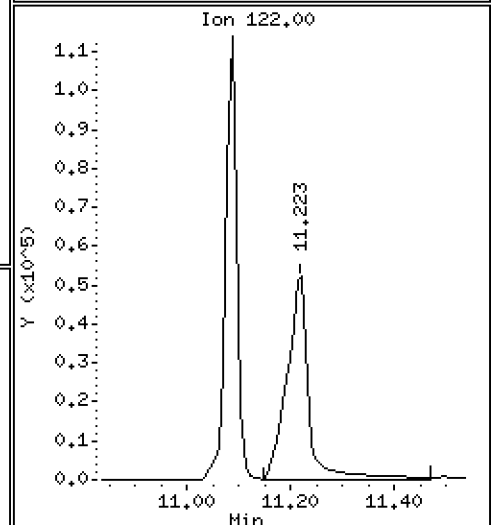
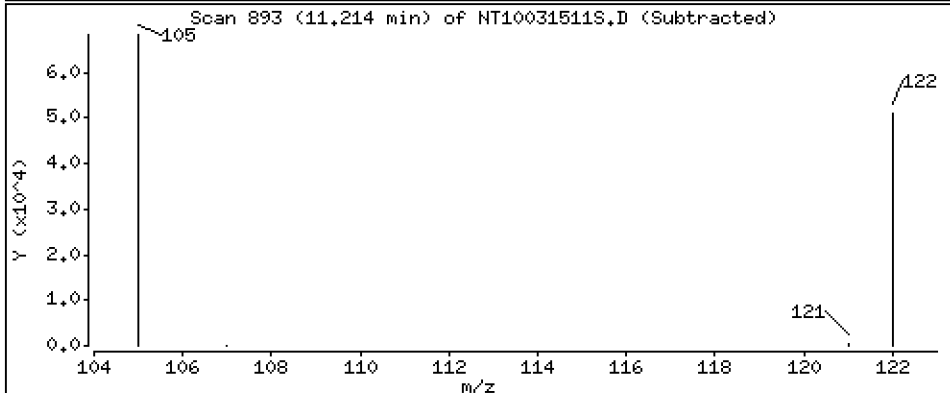
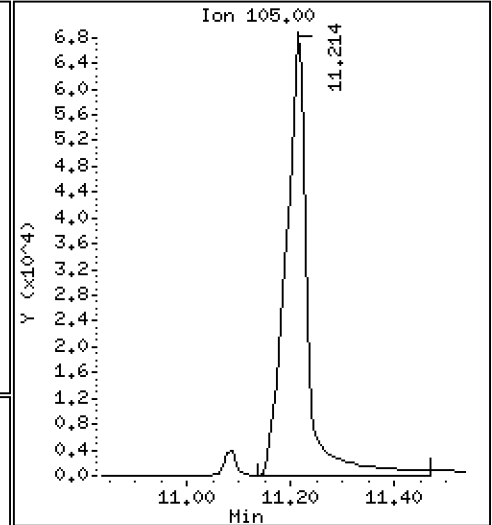
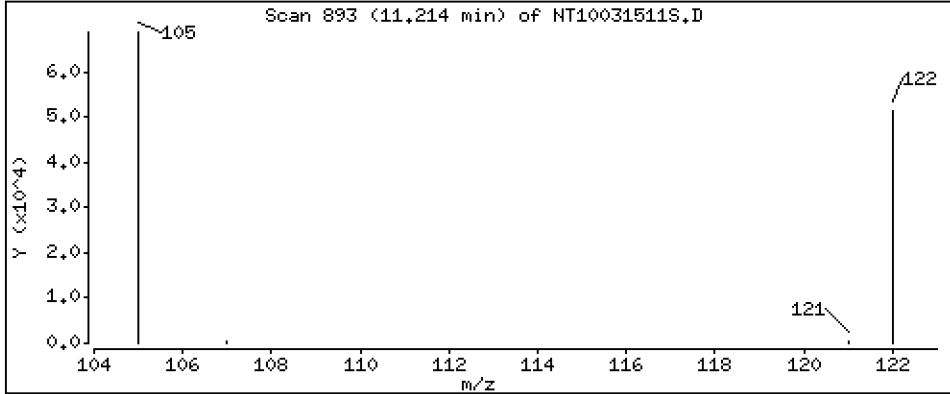
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

24 Benzoic acid

Concentration: 6,746 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

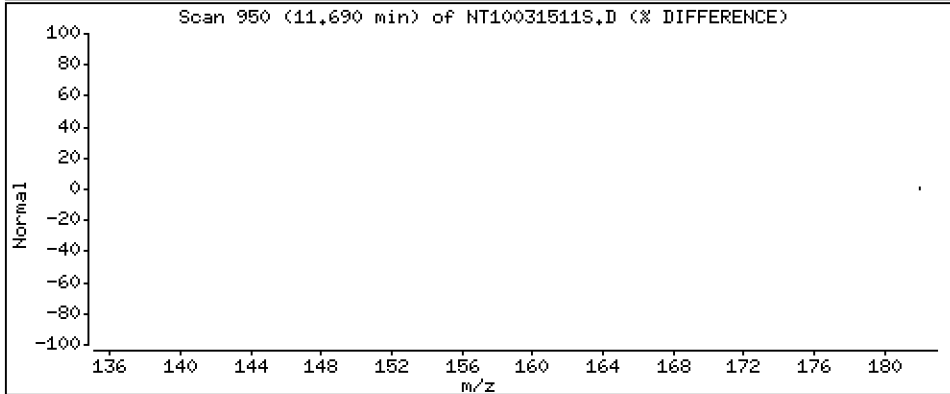
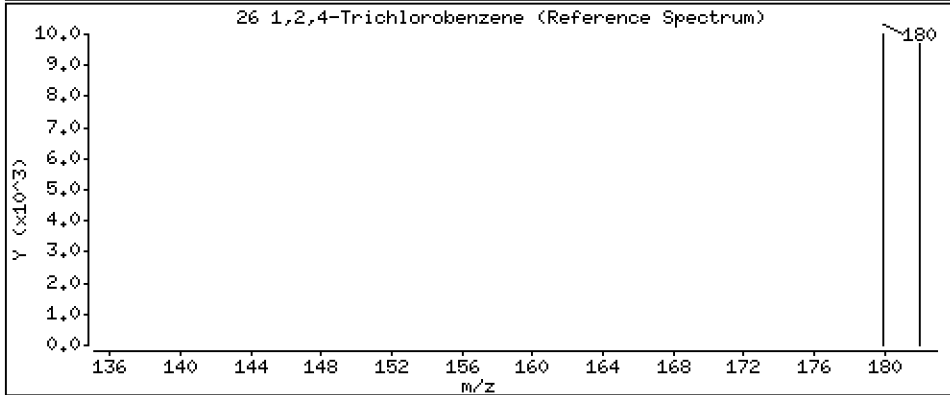
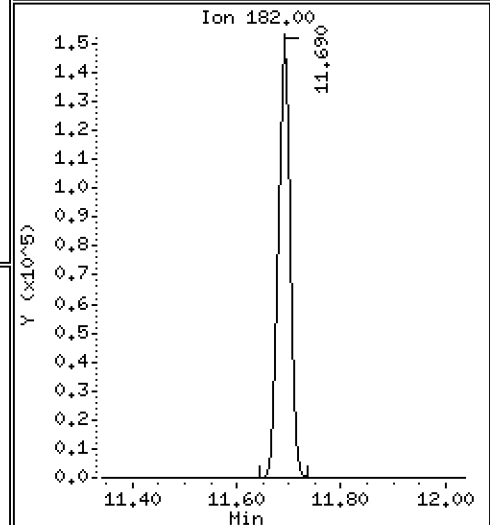
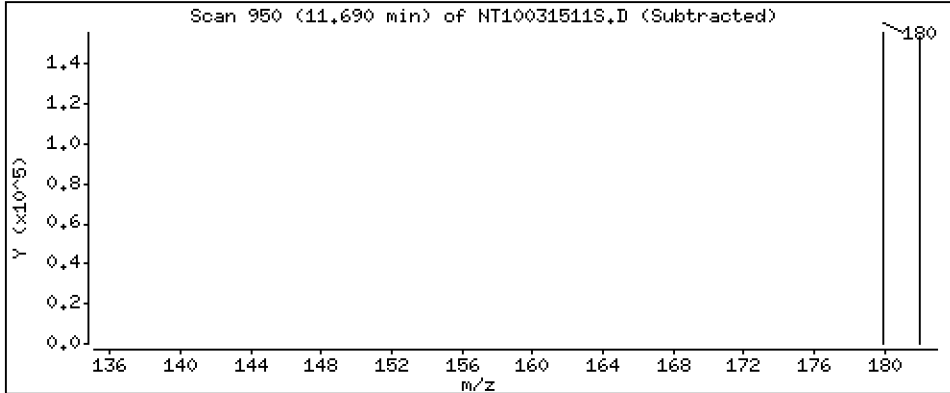
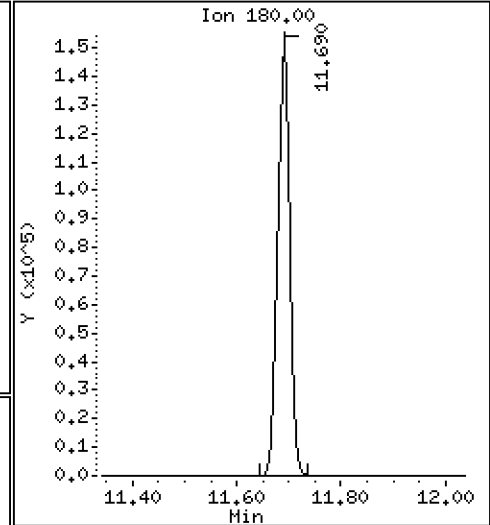
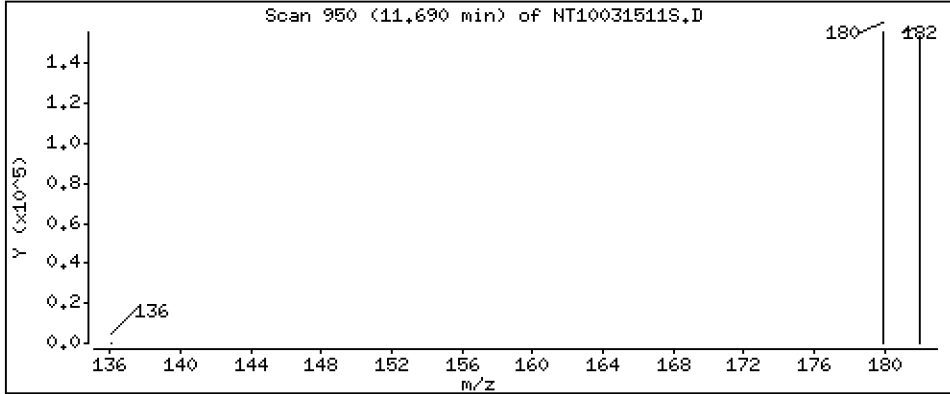
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

26 1,2,4-Trichlorobenzene

Concentration: 4.445 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

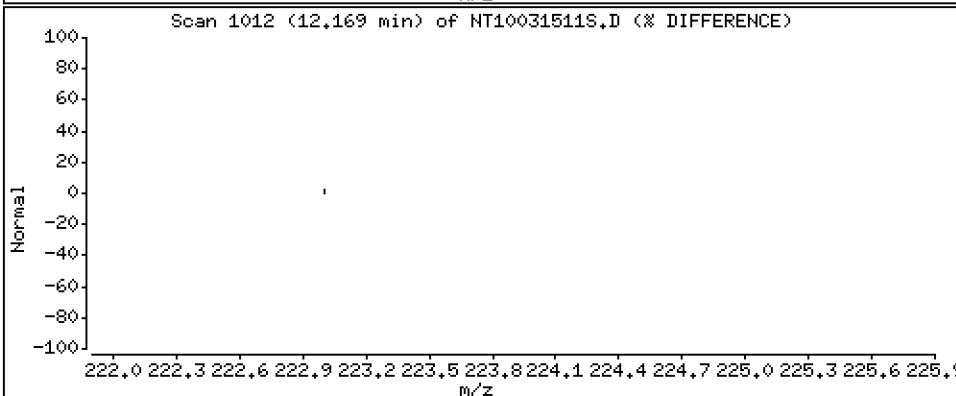
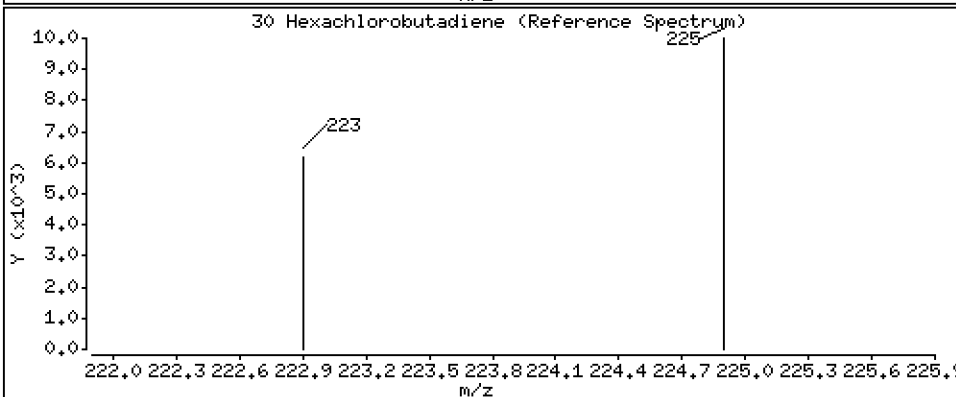
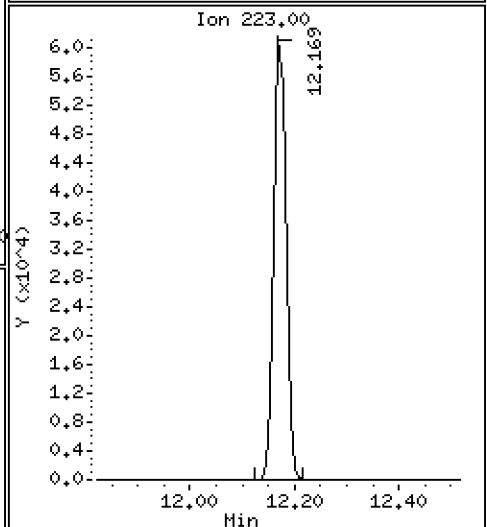
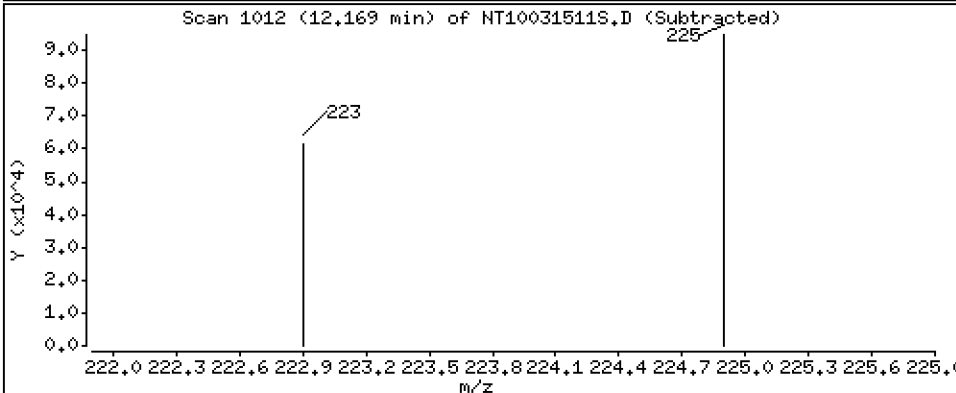
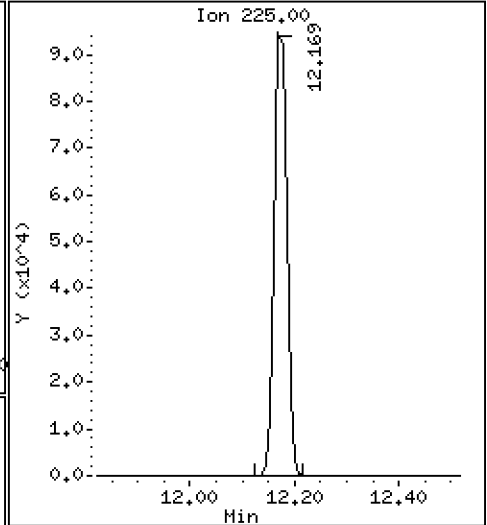
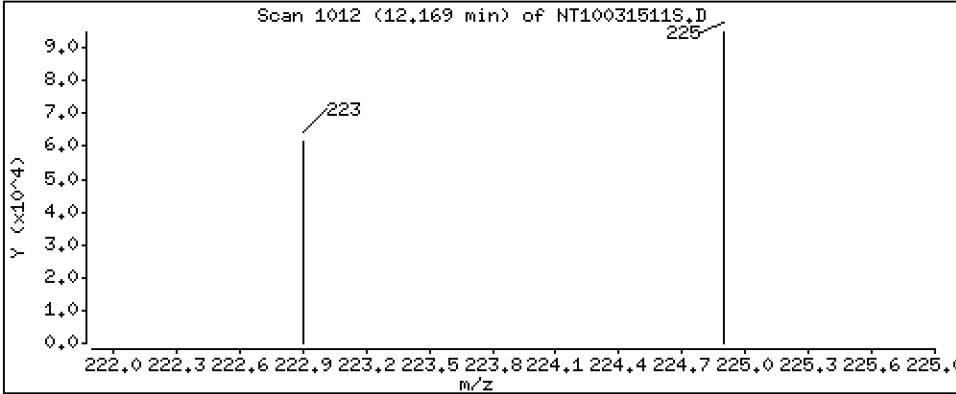
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 4,653 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

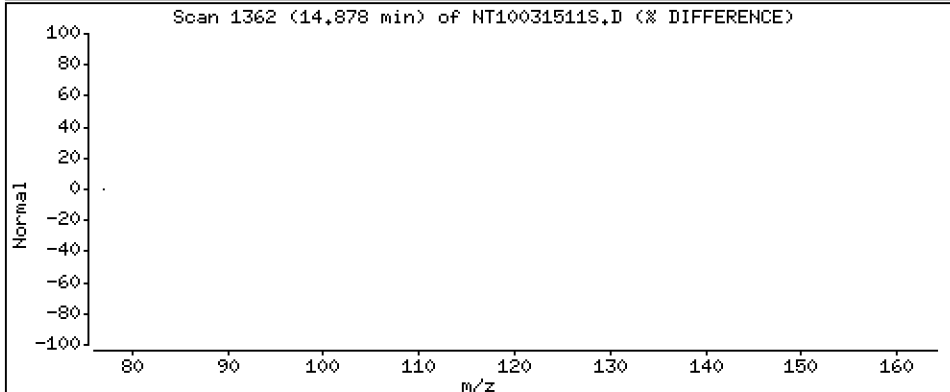
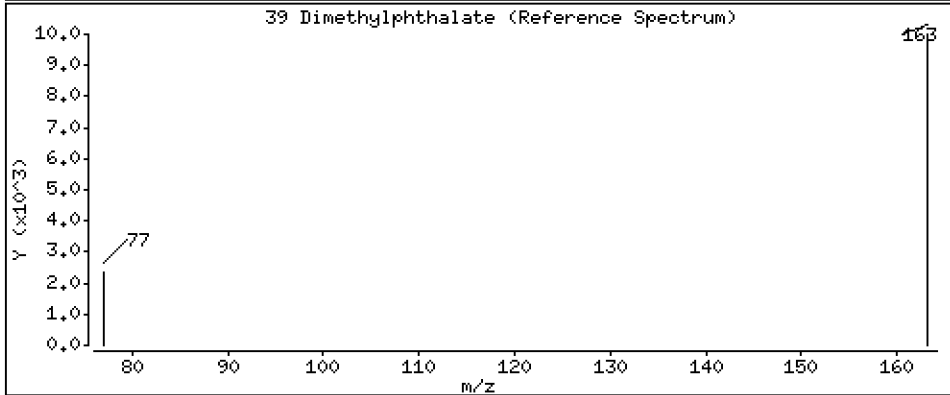
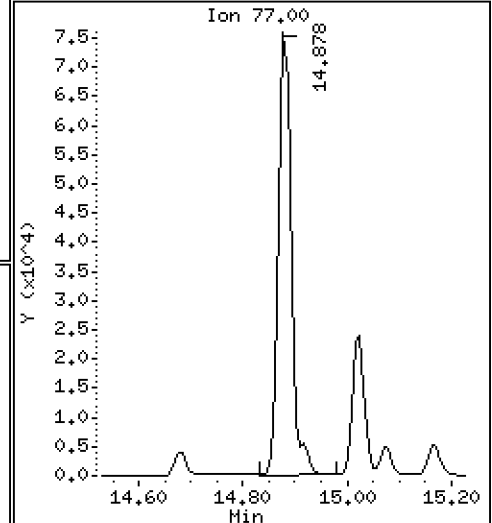
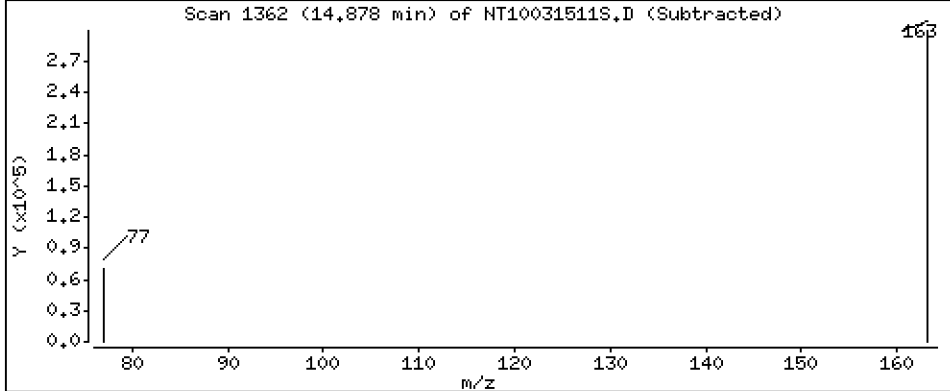
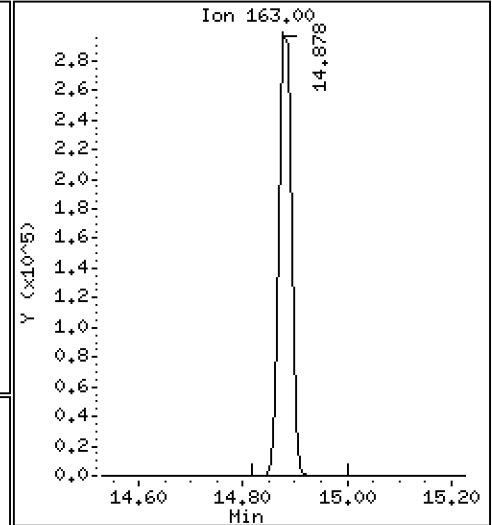
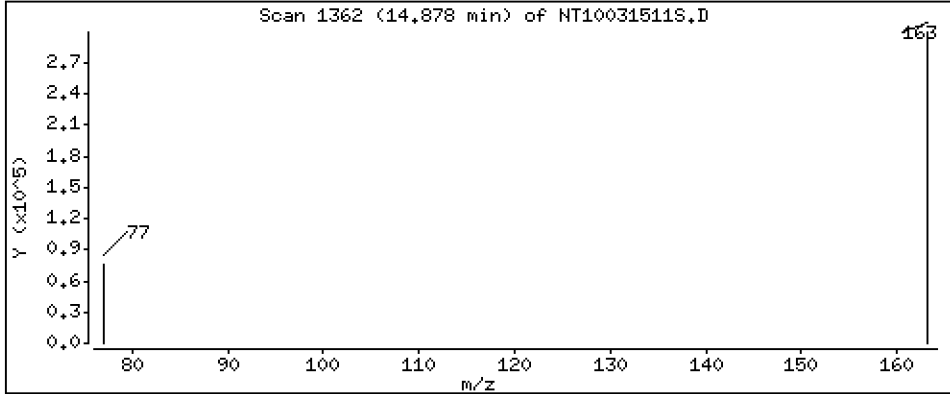
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 4,948 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

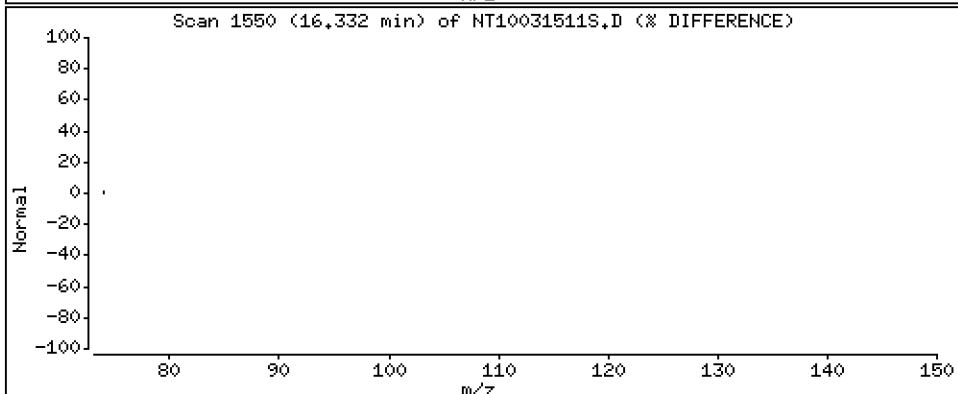
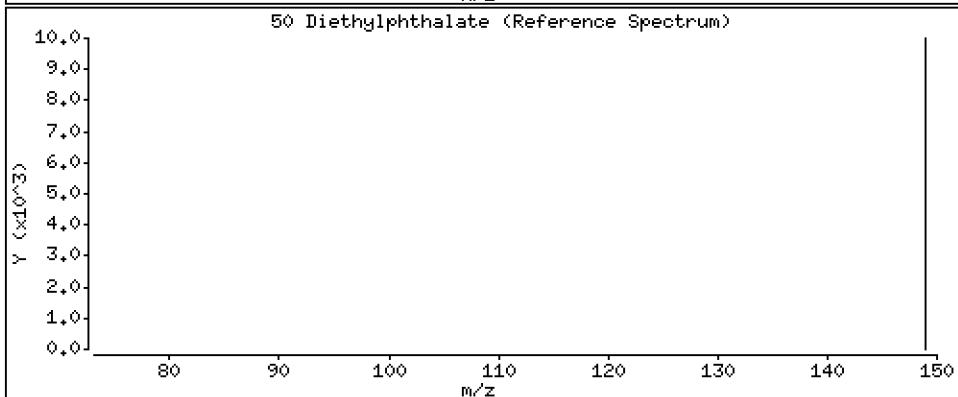
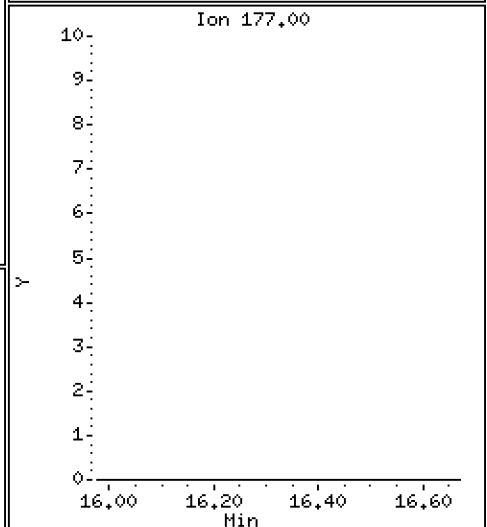
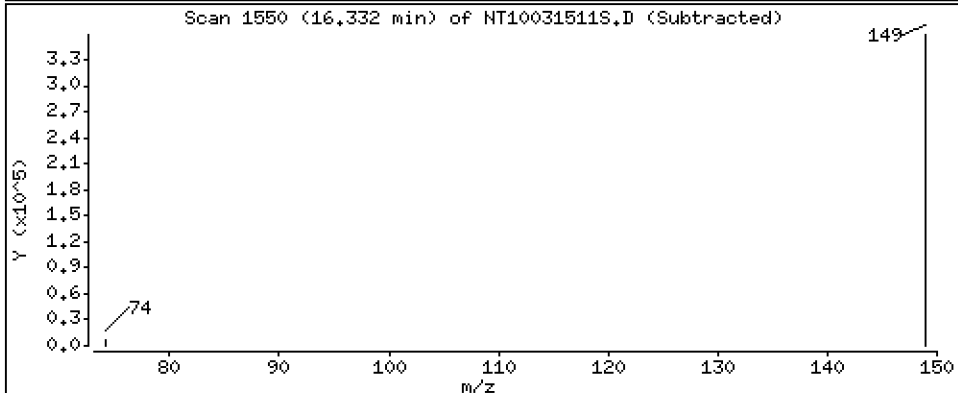
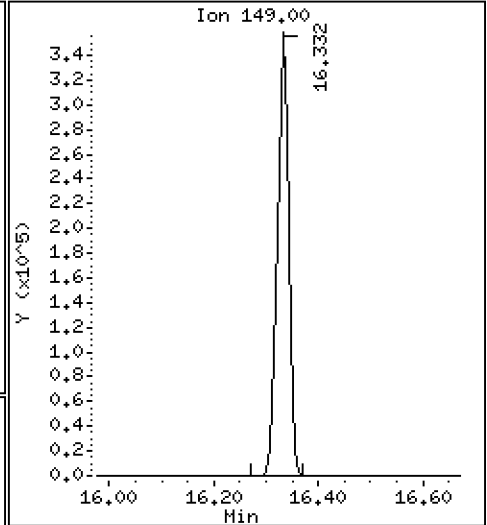
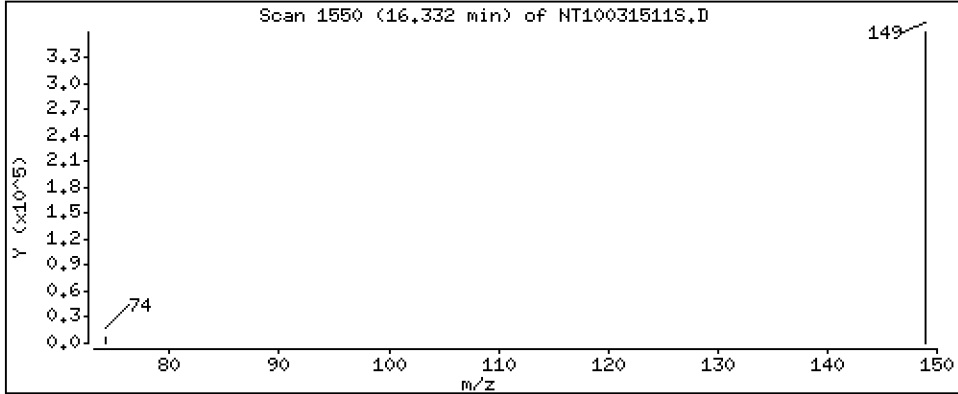
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

50 Diethylphthalate

Concentration: 5.364 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

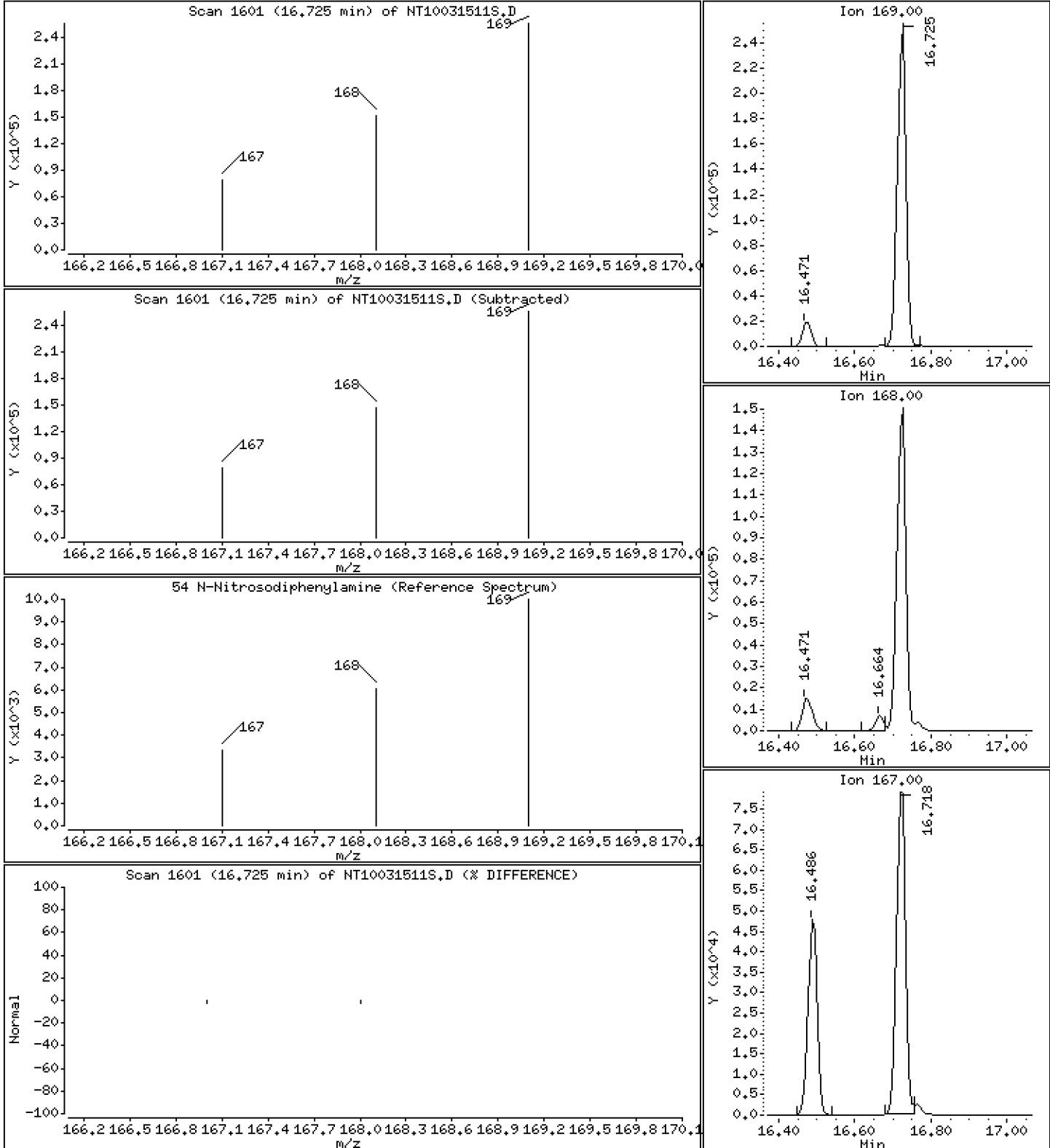
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

54 N-Nitrosodiphenylamine

Concentration: 5.080 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

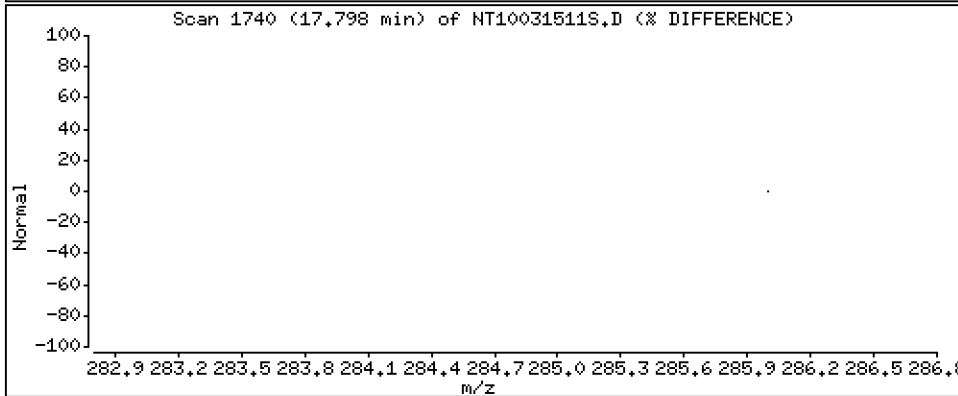
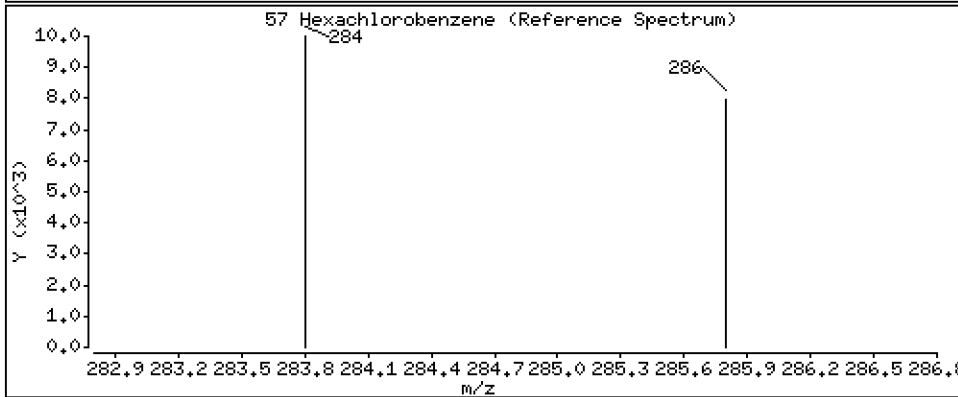
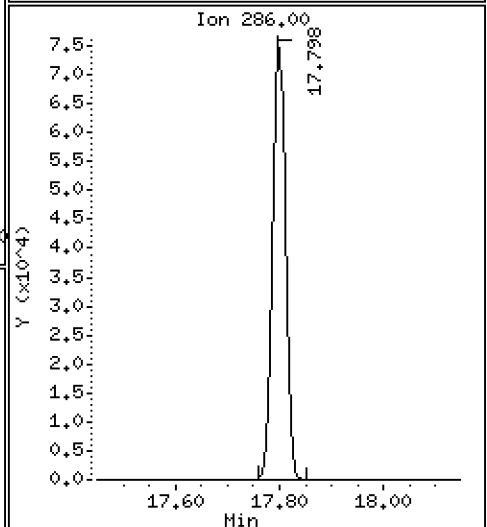
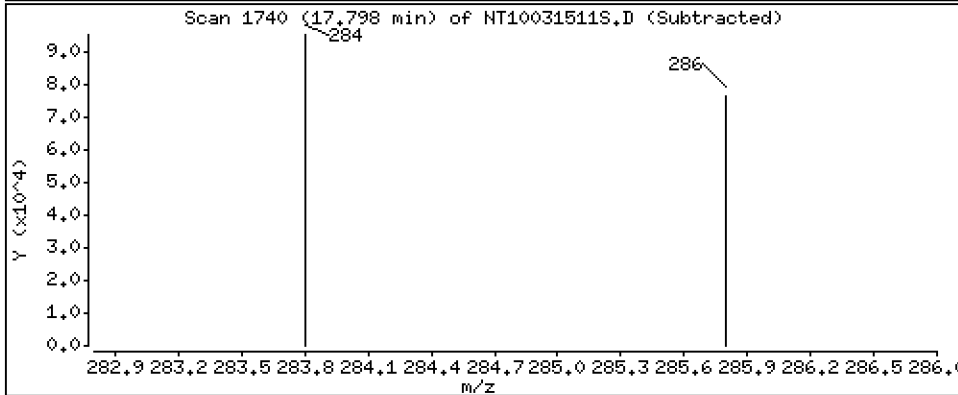
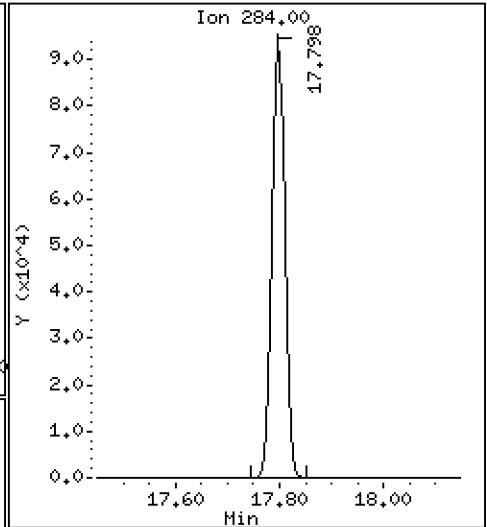
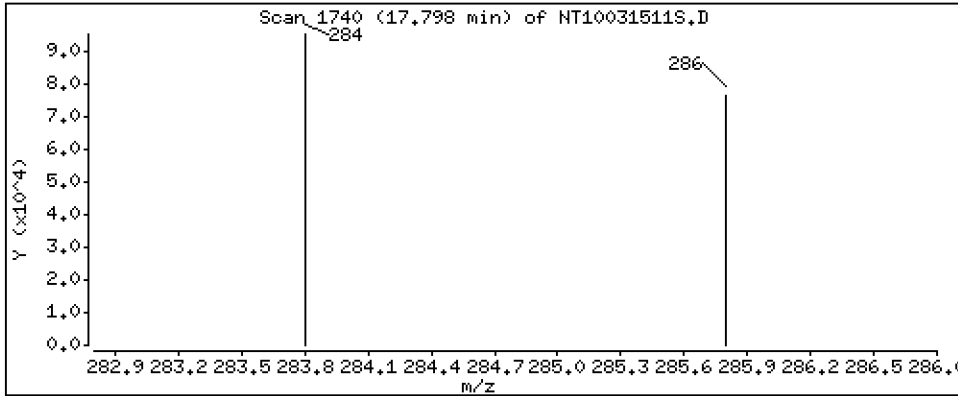
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

57 Hexachlorobenzene

Concentration: 4,614 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

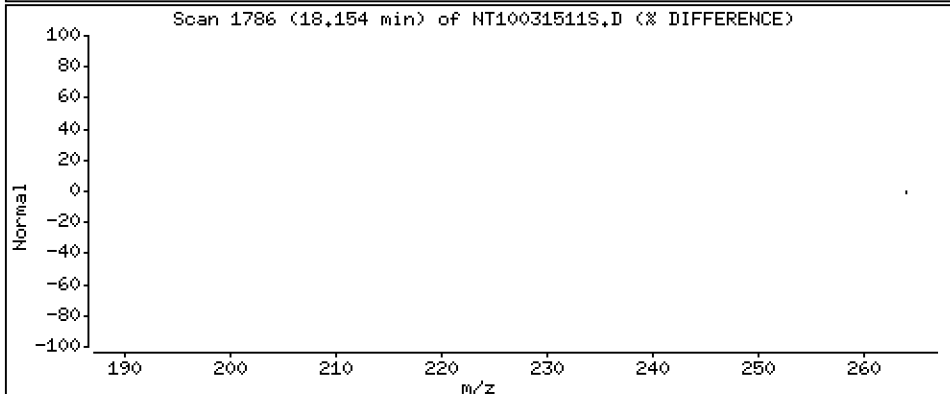
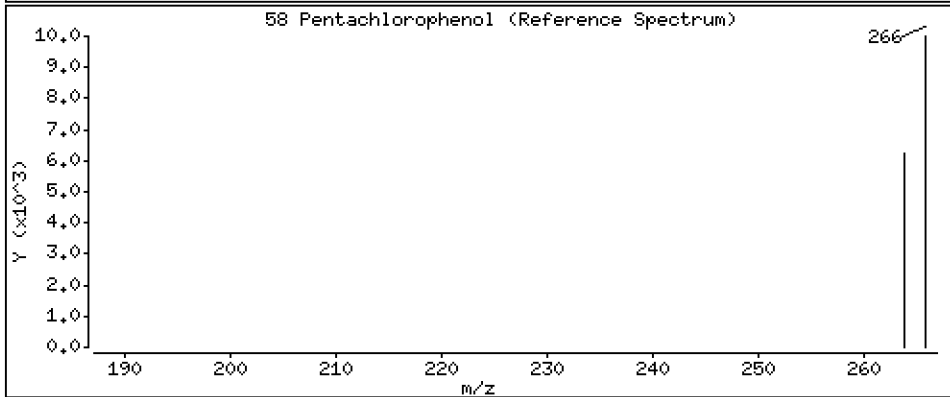
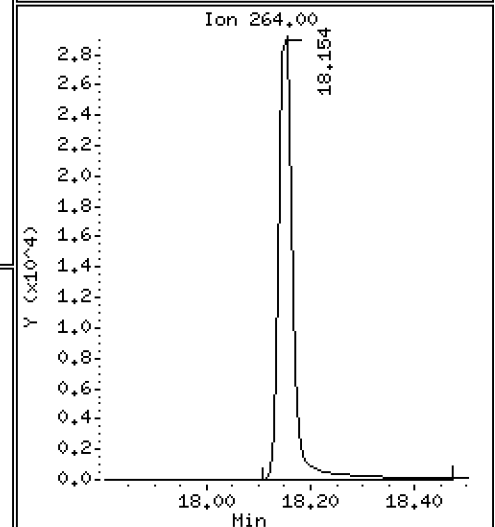
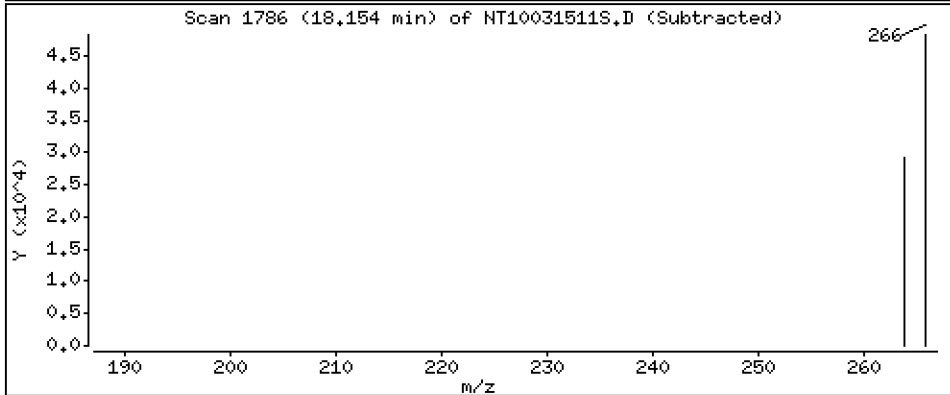
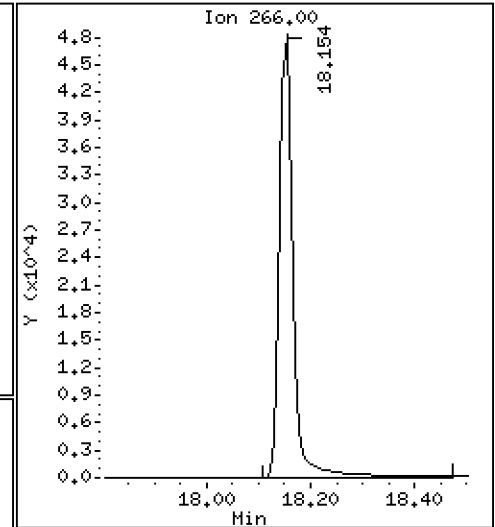
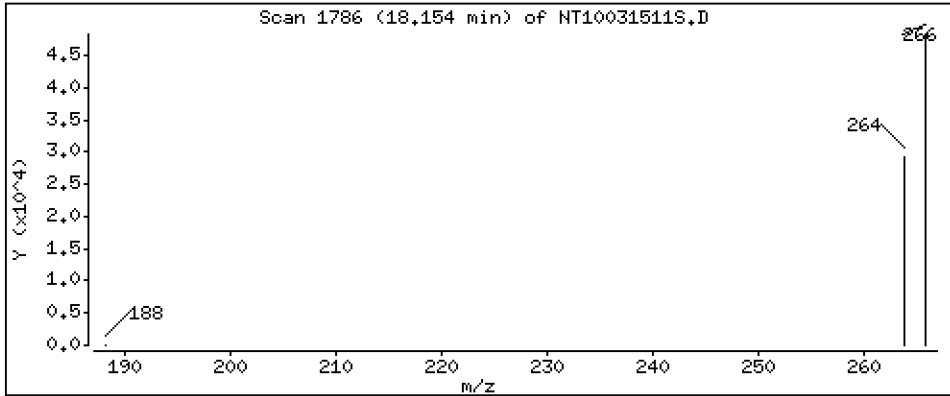
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 4,418 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

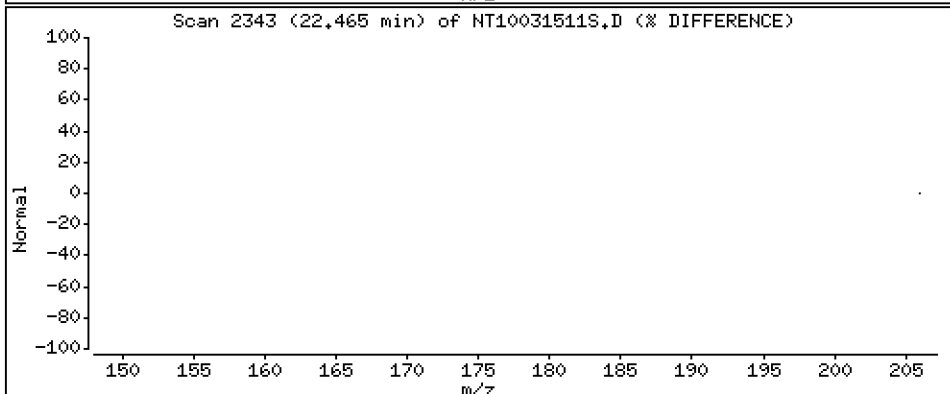
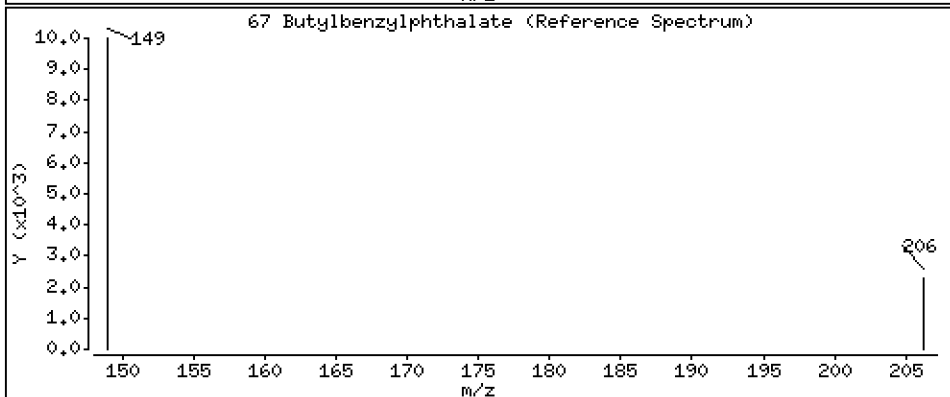
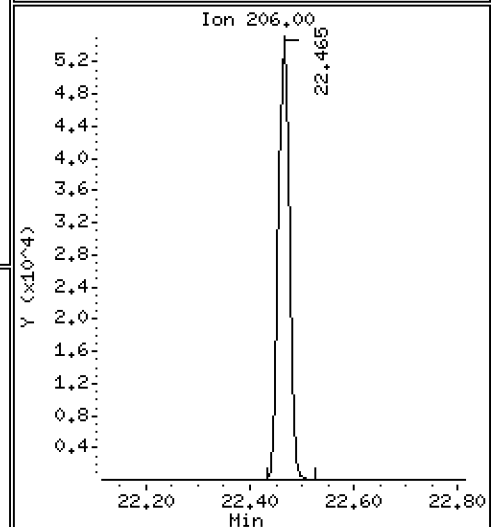
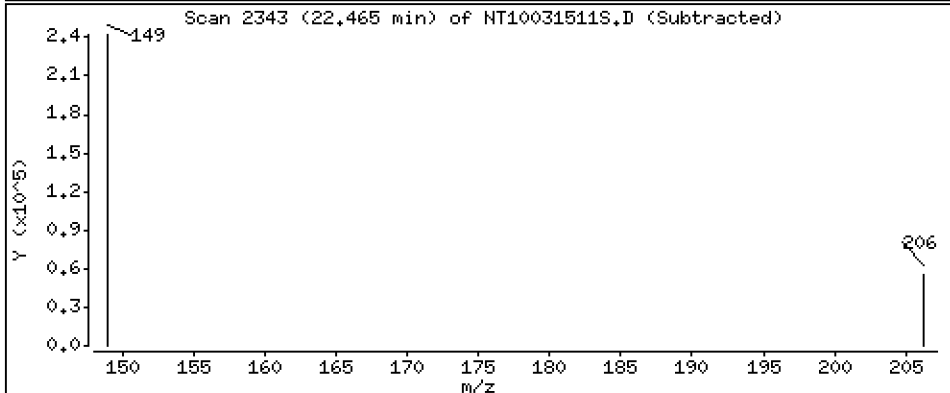
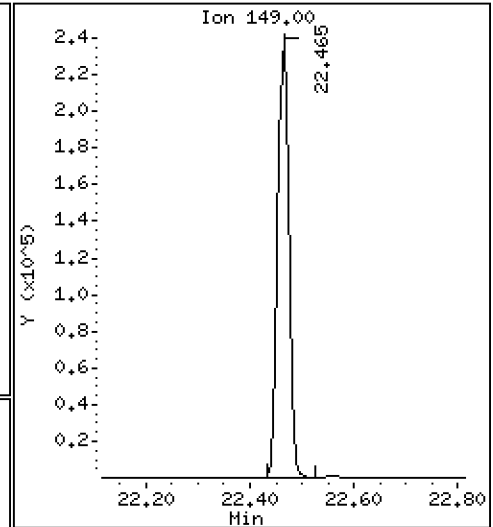
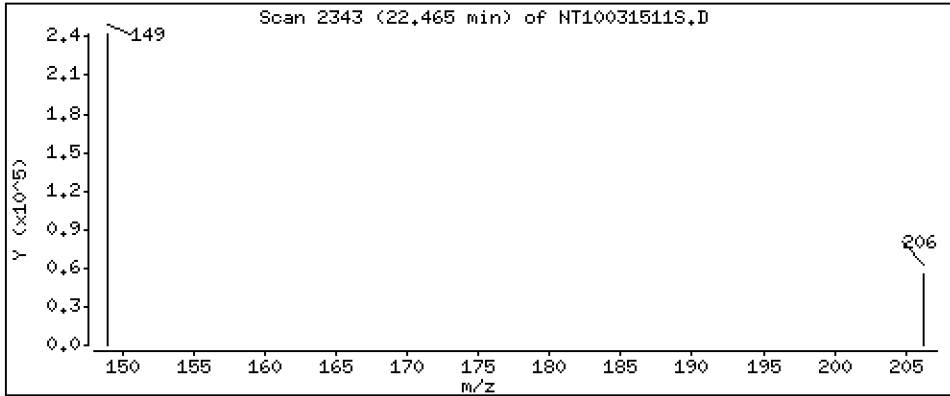
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 5,121 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

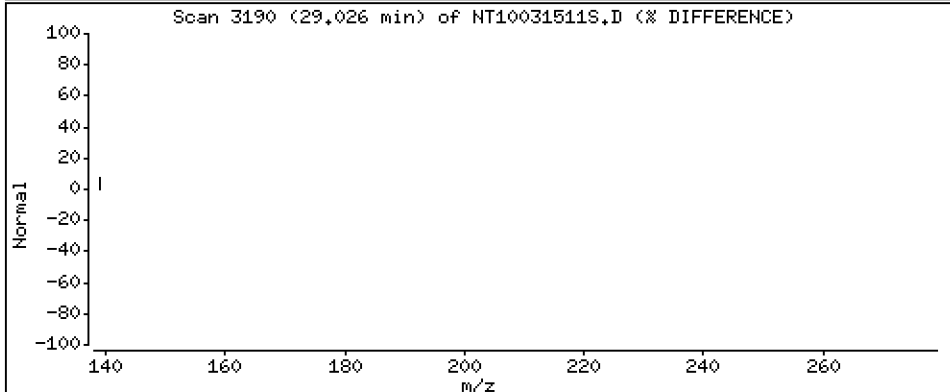
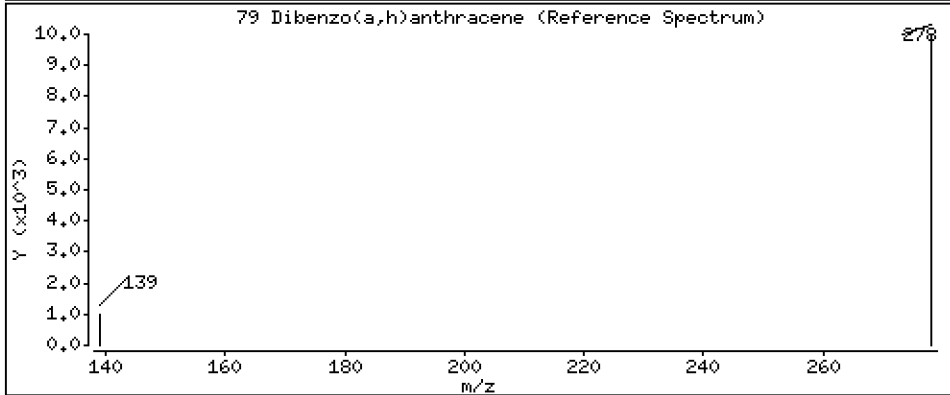
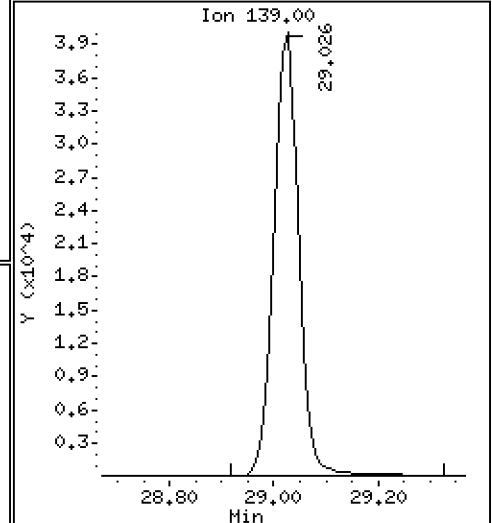
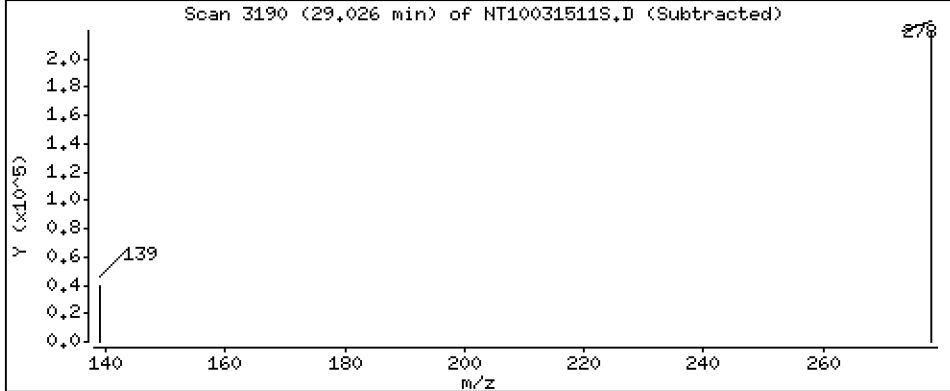
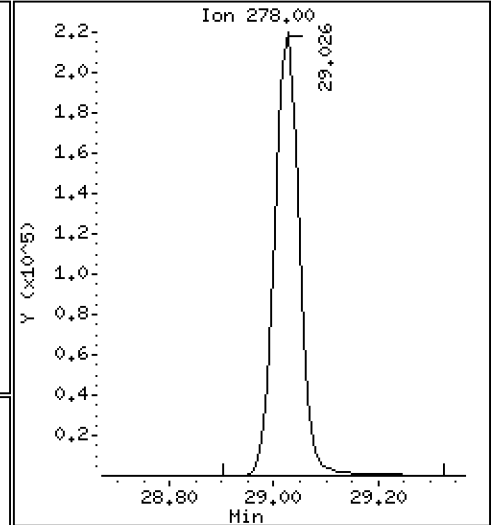
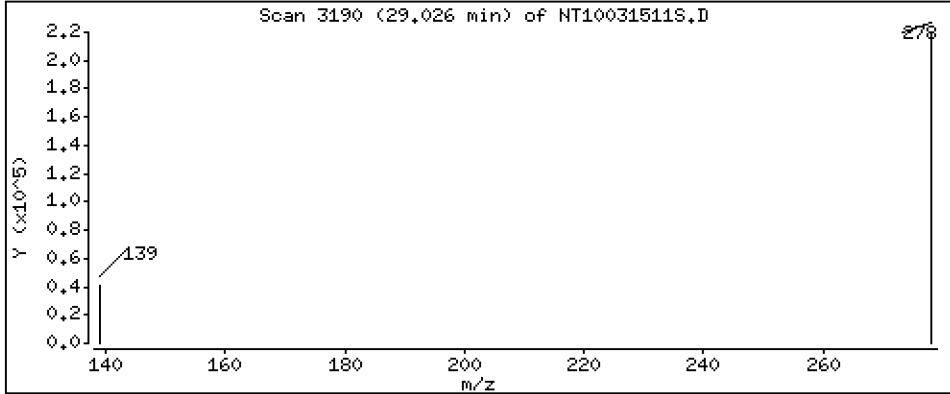
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 4,238 ug/L



Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

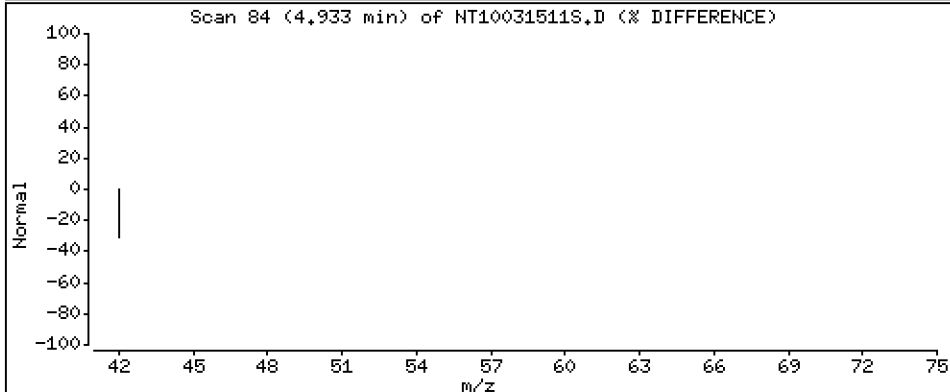
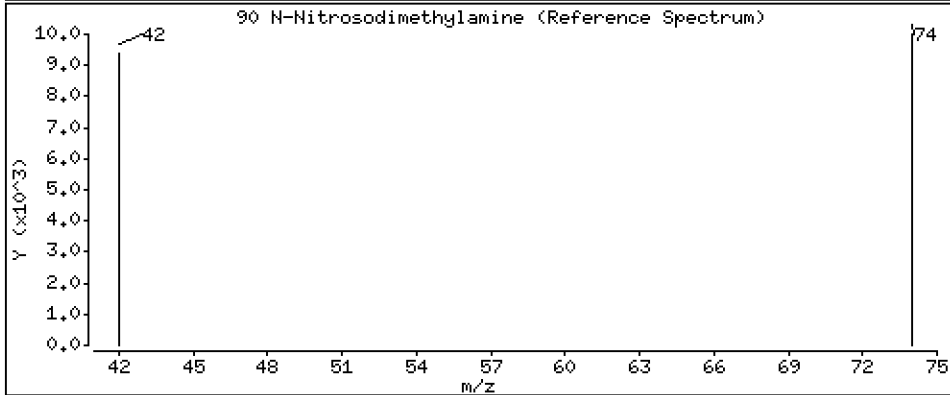
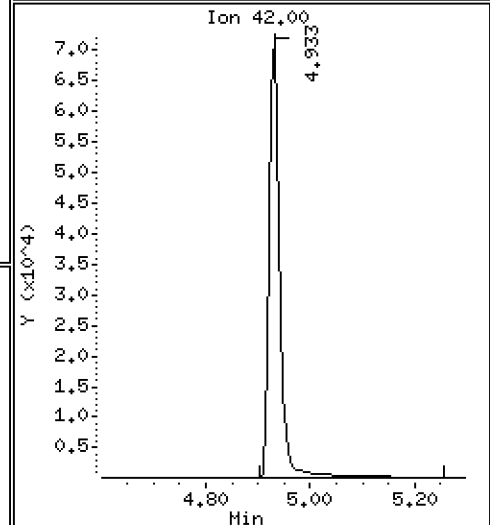
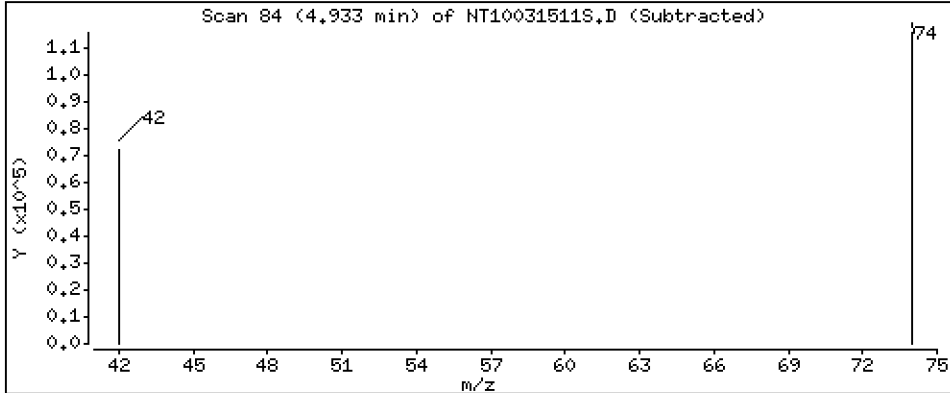
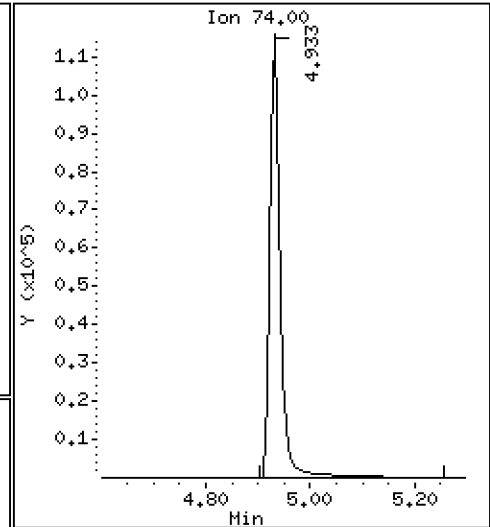
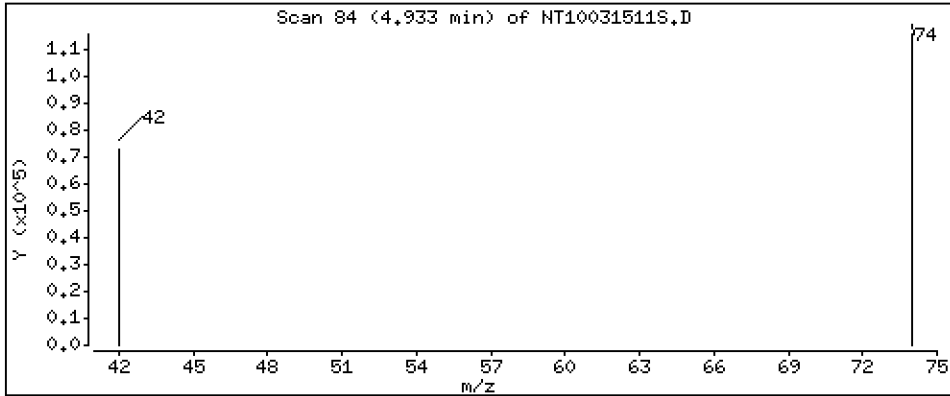
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

90 N-Nitrosodimethylamine

Concentration: 5.096 ug/L



ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D
 Lab Smp Id: SLC0238-SCV1
 Inj Date : 16-MAR-2023 02:16 MS Autotune Date: 16-JAN-2023 17:42
 Operator : JGR Inst ID: nt10.i
 Smp Info : SLC0238-SCV1
 Misc Info :
 Comment :
 Method : \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
 Meth Date : 16-Mar-2023 14:39 van Quant Type: ISTD
 Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D
 Als bottle: 11
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: PSDDA.sub
 Target Version: 4.14
 Processing Host: VANS-201906

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

| Name | Value | Description |
|---------------|----------|---------------------------------|
| DF | 1.000 | Dilution Factor |
| Vo | 1000.000 | Volume of sample extracted (mL) |
| Vt | 1000.000 | Volume of final extract (uL) |
| Vi | 1.000 | Volume injected (uL) |
| Uf | 1.000 | ng unit correction factor |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT | SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|-------------------------------|-------|-----|------------------------|--------|---------|----------|-------------------|--------------|
| | | | | | | | ON-COLUMN (ug/mL) | FINAL (ug/L) |
| \$ 1 2-Fluorophenol | 112 | | Compound Not Detected. | | | | | |
| 3 Phenol | 94 | | 8.664 | 8.664 | (0.931) | 303581 | 4.37299 | 4.373 |
| 7 1,3-Dichlorobenzene | 146 | | 9.236 | 9.236 | (0.992) | 301605 | 4.64290 | 4.643 |
| * 8 1,4-Dichlorobenzene-d4 | 152 | | 9.306 | 9.298 | (1.000) | 166866 | 4.00000 | |
| 9 1,4-Dichlorobenzene | 146 | | 9.329 | 9.329 | (1.002) | 303390 | 4.83813 | 4.838 |
| 11 Benzyl alcohol | 79 | | 9.562 | 9.570 | (1.028) | 208505 | 5.18071 | 5.181 |
| 12 1,2-Dichlorobenzene | 146 | | 9.686 | 9.686 | (1.041) | 288539 | 4.67875 | 4.679 |
| 13 2-Methylphenol | 108 | | 9.772 | 9.772 | (1.050) | 201888 | 4.19698 | 4.197 |
| 15 4-Methylphenol | 108 | | 10.043 | 10.036 | (1.079) | 223083 | 4.46301 | 4.463 |
| 16 N-Nitroso-di-n-propylamine | 70 | | 10.121 | 10.113 | (1.088) | 186707 | 5.28174 | 5.282 |
| 22 2,4-Dimethylphenol | 107 | | 11.086 | 11.087 | (0.942) | 193654 | 3.66015 | 3.660 |
| 24 Benzoic acid | 105 | | 11.214 | 11.189 | (0.952) | 200487 | 6.74612 | 6.746 |
| 26 1,2,4-Trichlorobenzene | 180 | | 11.690 | 11.690 | (0.993) | 236605 | 4.44540 | 4.445 |
| * 27 Naphthalene-d8 | 136 | | 11.775 | 11.775 | (1.000) | 612104 | 4.00000 | |
| 30 Hexachlorobutadiene | 225 | | 12.169 | 12.169 | (1.033) | 150581 | 4.65339 | 4.653 |
| 39 Dimethylphthalate | 163 | | 14.877 | 14.877 | (0.967) | 472341 | 4.94766 | 4.948 |
| * 42 Acenaphthene-d10 | 162 | | 15.388 | 15.380 | (1.000) | 302524 | 4.00000 | |
| 50 Diethylphthalate | 149 | | 16.331 | 16.324 | (1.061) | 530540 | 5.36440 | 5.364 |
| 54 N-Nitrosodiphenylamine | 169 | | 16.725 | 16.717 | (0.908) | 377357 | 5.08034 | 5.080 |
| 57 Hexachlorobenzene | 284 | | 17.798 | 17.798 | (0.966) | 153405 | 4.61353 | 4.614 |

| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|---------------------------|-----------|--------|--------|---------|----------|----------------------|------------------|
| | | | | | | ON-COLUMN (ug/mL) | FINAL (ug/L) |
| 58 Pentachlorophenol | 266 | 18.154 | 18.154 | (0.985) | 83223 | 4.41780 | 4.418 |
| * 59 Phenanthrene-d10 | 188 | 18.425 | 18.417 | (1.000) | 553619 | 4.00000 | |
| \$ 66 Terphenyl-d14 | 244 | 21.543 | 21.543 | (0.918) | 117 | 0.00154 | 0.001543 (RM) |
| 67 Butylbenzylphthalate | 149 | 22.464 | 22.465 | (0.958) | 332887 | 5.12147 | 5.121 |
| * 69 Chrysene-d12 | 240 | 23.455 | 23.455 | (1.000) | 465428 | 4.00000 | |
| * 77 Perylene-d12 | 264 | 26.188 | 26.188 | (1.000) | 532593 | 4.00000 | |
| 79 Dibenzo(a,h)anthracene | 278 | 29.026 | 29.019 | (1.108) | 722983 | 4.23762 | 4.238 |
| 90 N-Nitrosodimethylamine | 74 | 4.933 | 4.948 | (0.530) | 163555 | 5.09625 | 5.096 |

QC Flag Legend

- R - Spike/Surrogate failed recovery limits.
- M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i
 Lab File ID: NT10031511S.D
 Lab Smp Id: SLC0238-SCV1
 Analysis Type: SV
 Quant Type: ISTD
 Operator: JGR
 Method File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
 Misc Info:

Calibration Date: 15-MAR-2023
 Calibration Time: 23:06
 Level: LOW
 Sample Type: AIR

Test Mode:
 Use Last Continuing Calibrator.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|------------|---------|--------|--------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 188081 | 94041 | 376162 | 166866 | -11.28 |
| 27 Naphthalene-d8 | 674549 | 337275 | 1349098 | 612104 | -9.26 |
| 42 Acenaphthene-d10 | 328275 | 164138 | 656550 | 302524 | -7.84 |
| 59 Phenanthrene-d10 | 597140 | 298570 | 1194280 | 553619 | -7.29 |
| 69 Chrysene-d12 | 466503 | 233252 | 933006 | 465428 | -0.23 |
| 77 Perylene-d12 | 518203 | 259102 | 1036406 | 532593 | 2.78 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 9.30 | 8.80 | 9.80 | 9.31 | 0.08 |
| 27 Naphthalene-d8 | 11.77 | 11.27 | 12.27 | 11.78 | 0.01 |
| 42 Acenaphthene-d10 | 15.39 | 14.89 | 15.89 | 15.39 | 0.01 |
| 59 Phenanthrene-d10 | 18.42 | 17.92 | 18.92 | 18.43 | 0.00 |
| 69 Chrysene-d12 | 23.45 | 22.95 | 23.95 | 23.46 | 0.00 |
| 77 Perylene-d12 | 26.19 | 25.69 | 26.69 | 26.19 | 0.00 |

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

REVIEW SUMMARY FOR FILE - NT10031511S.D

Lab ID: SLC0238-SCV1

nt10.i, 20230315.b\20230315.b\SIMABN2.m,

16-MAR-2023 02:16

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

| RRT | CCV | RRT | DELTA | COMPOUND |
|-------|-------|--------|-------|--------------|
| 0.952 | 0.000 | 0.9524 | | Benzoic acid |

RRT check based on Ccal File: 20230315.b/NT10031510S.D

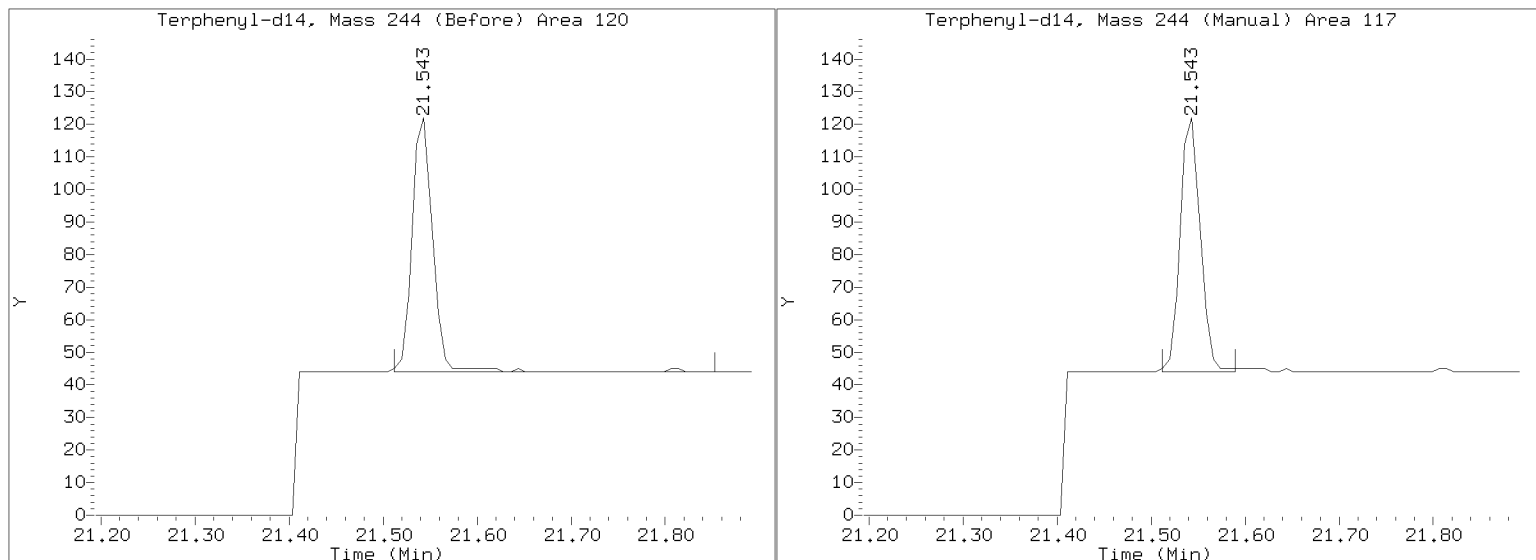
On Column LOD for nt10.i, 20230315.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230315.b/20230315.b/NT10031511S.D
Injection Date: 16-MAR-2023 02:16
Lab ID: SLC0238-SCV1 Client ID:
Report Date: 03/16/2023 14:49





CONTINUING CALIBRATION CHECK
EPA 8270E-SIM

| | | | |
|----------------|----------------------------------|-------------------|------------------------|
| Laboratory: | <u>Analytical Resources, LLC</u> | SDG: | <u>23A0180</u> |
| Client: | <u>Anchor QEA, LLC</u> | Project: | <u>AOC5 MR Phase 1</u> |
| Instrument ID: | <u>NT10</u> | Calibration: | <u>GC00049</u> |
| Lab File ID: | <u>NT1003222334S.D</u> | Calibration Date: | <u>03/15/2023</u> |
| Sequence: | <u>SLC0407</u> | Injection Date: | <u>03/23/23</u> |
| Lab Sample ID: | <u>SLC0407-CCV1</u> | Injection Time: | <u>14:00</u> |
| Sequence Name: | <u>Calibration Check</u> | | |

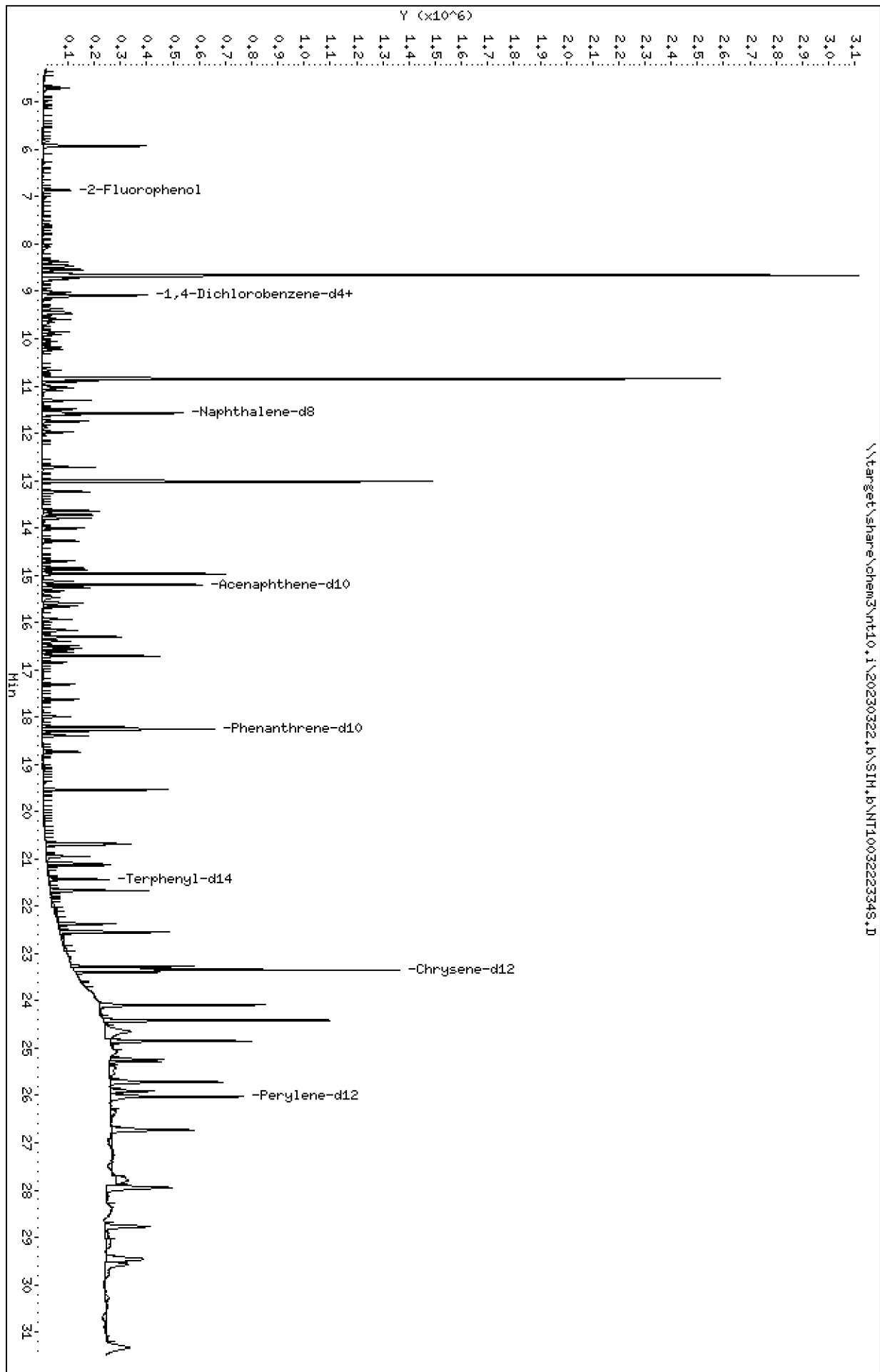
| COMPOUND | TYPE | CONC. (ug/mL) | | RESPONSE FACTOR (RRF) | | | % DRIFT/DIFF | |
|------------------------|------|---------------|------|-----------------------|-----------|-----|--------------|---------|
| | | STD | CCV | ICAL | CCV | MIN | CCV | LIMIT |
| 1,4-Dichlorobenzene | A | 1.0000 | 1.0 | 1.5031980 | 1.5726420 | | 4.6 | +/-50 |
| 1,2-Dichlorobenzene | A | 1.0000 | 1.0 | 1.4783140 | 1.5268160 | | 3.3 | +/-50 |
| Benzyl Alcohol | A | 1.0000 | 1.1 | 0.9647610 | 1.0482100 | | 8.7 | +/-50 |
| Benzoic acid | A | 4.0000 | 4.0 | 0.1358970 | 0.1911392 | | -0.4 | +/-50 |
| 2,4-Dimethylphenol | A | 2.0000 | 2.0 | 0.3457498 | 0.3387292 | | -2.0 | +/-50 |
| 1,2,4-Trichlorobenzene | A | 1.0000 | 1.1 | 0.3478148 | 0.3750798 | | 7.8 | +/-50 |
| N-Nitrosodiphenylamine | A | 1.0000 | 1.1 | 0.5366720 | 0.5677816 | | 5.8 | +/-50 |
| Pentachlorophenol | A | 2.0000 | 1.9 | 0.0934250 | 0.1239893 | | -7.5 | +/-50 |
| 2-Fluorophenol | A | 1.5000 | 1.63 | 1.2129820 | 1.3167270 | | 8.6 | +/-50 |
| p-Terphenyl-d14 | A | 1.0000 | 1.86 | 0.6517430 | 1.2154790 | | 86.5 | +/-50 * |

* Values outside of QC limits

Data File: \\target\share\chem3\nt10.1\20230322.16\SIH.6\NT100322334S.D
 Date: 23-MAR-2023 14:00
 Client ID:
 Sample Info: SED-CVSIH
 Volume Injected (uL): 1.0
 Column phase: ZB-5msi

Instrument: nt10.1
 Operator: JGR
 Column diameter: 0.25

\\target\share\chem3\nt10.1\20230322.16\SIH.6\NT100322334S.D



Date : 23-MAR-2023 14:00

Client ID:

Instrument: nt10.i

Sample Info: SEQ-CCVSIH

Volume Injected (uL): 1.0

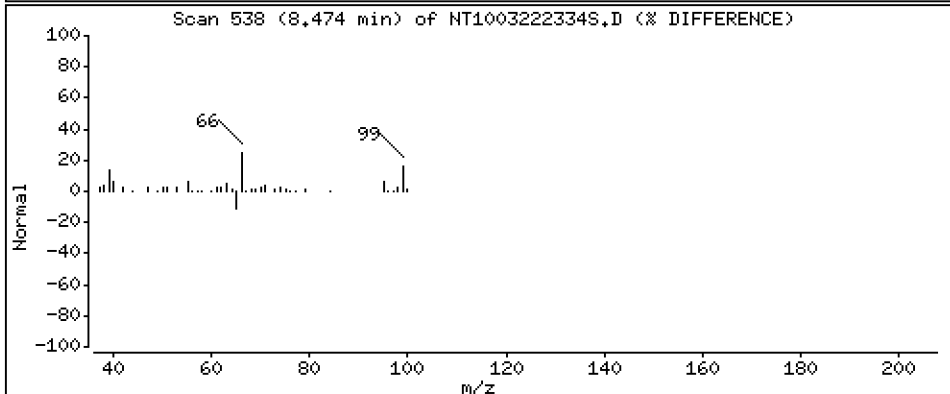
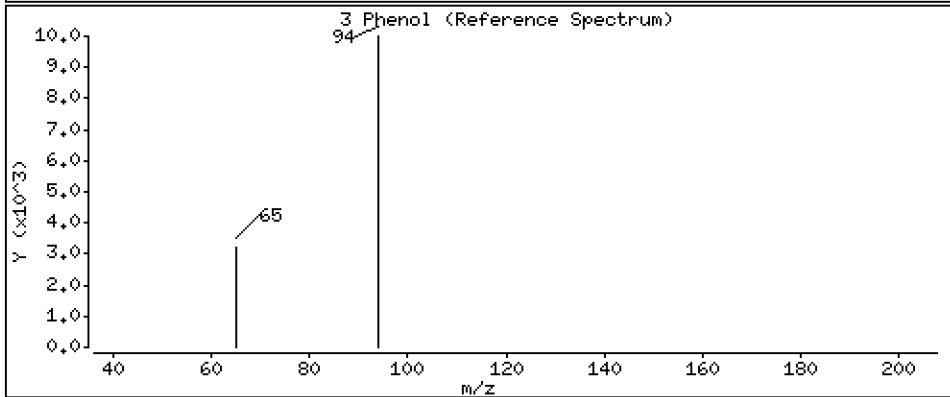
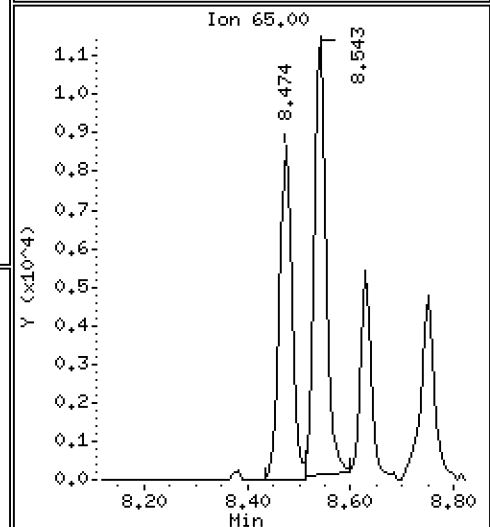
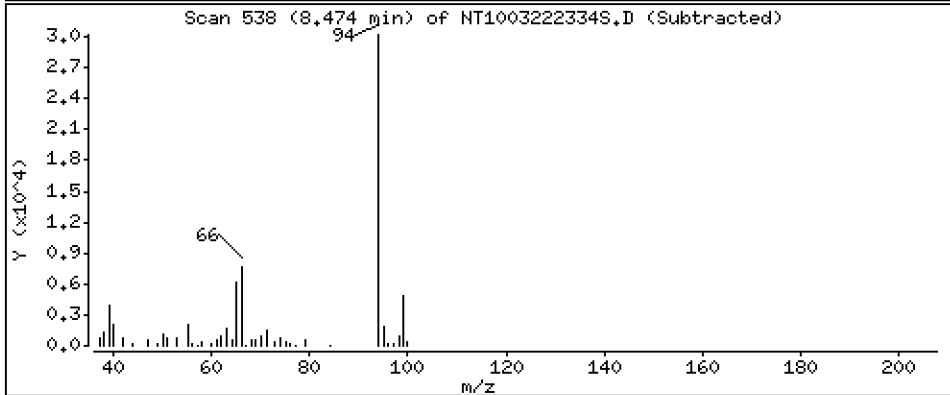
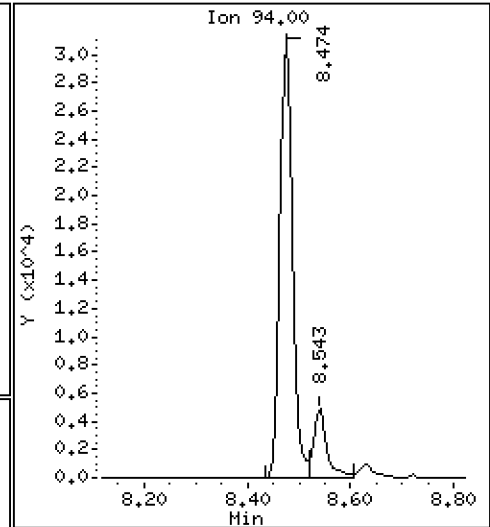
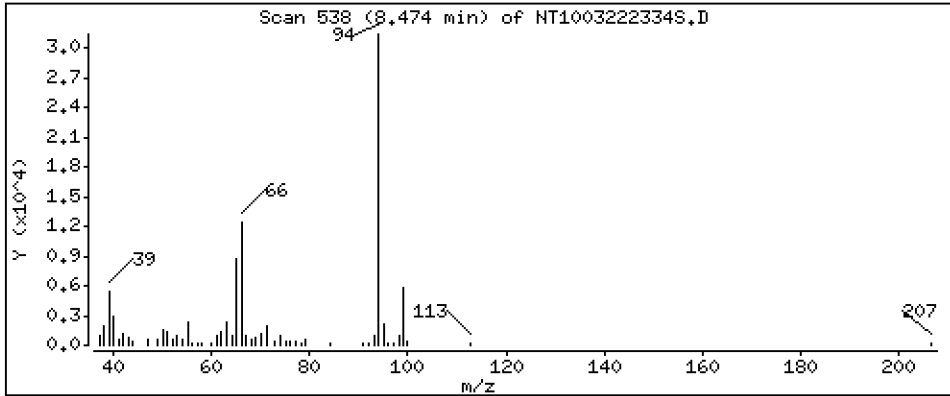
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

3 Phenol

Concentration: 1.023 ug/L



Date : 23-MAR-2023 14:00

Client ID:

Instrument: nt10.i

Sample Info: SEQ-CCVSIH

Volume Injected (uL): 1.0

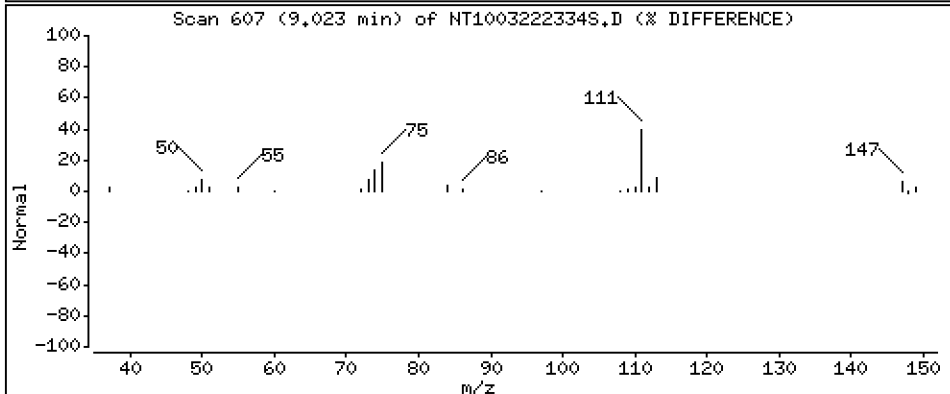
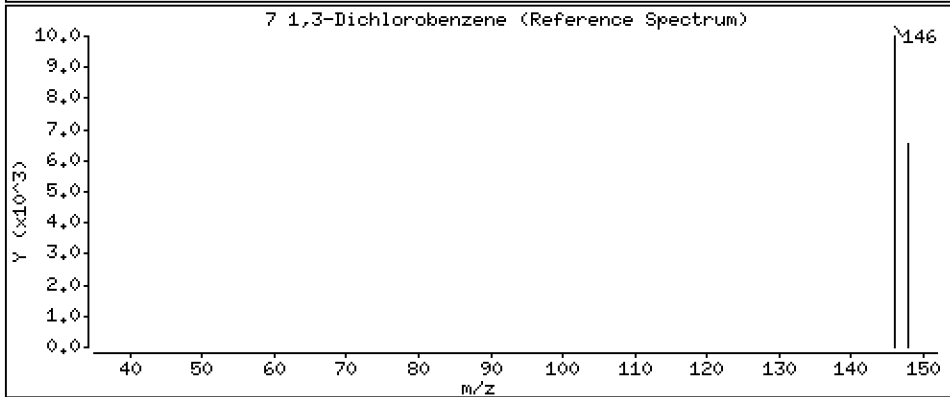
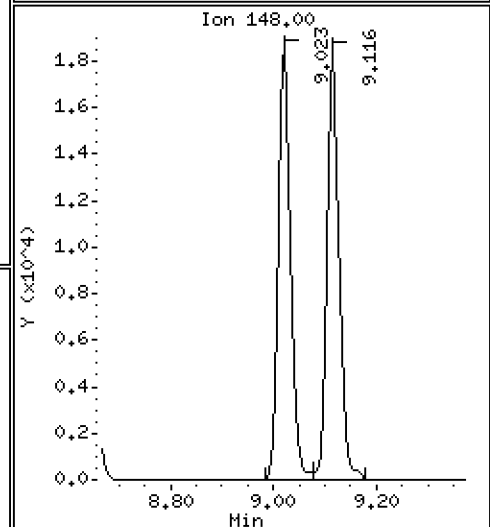
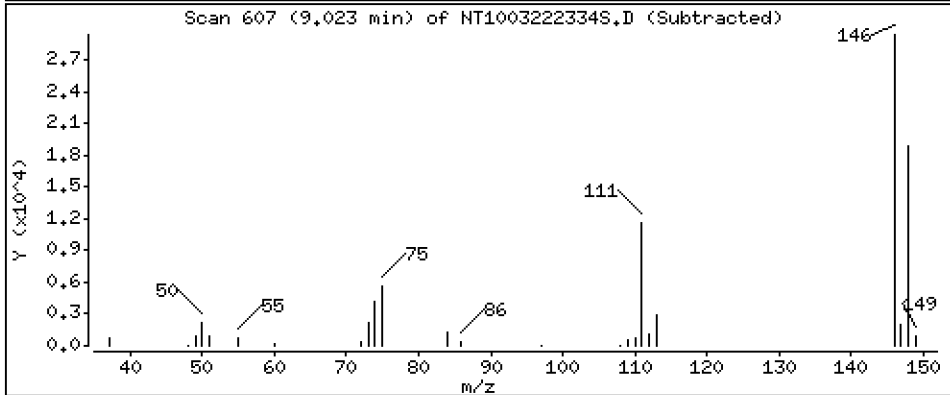
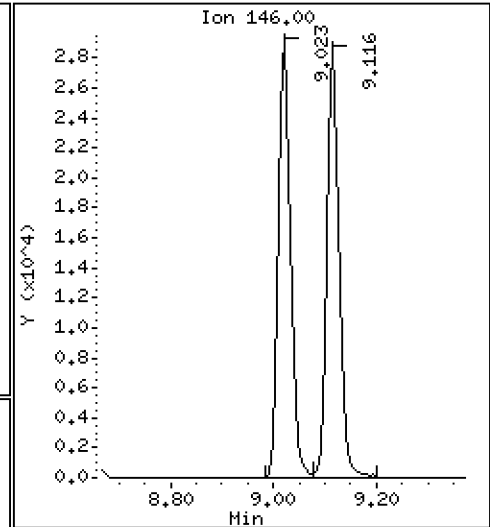
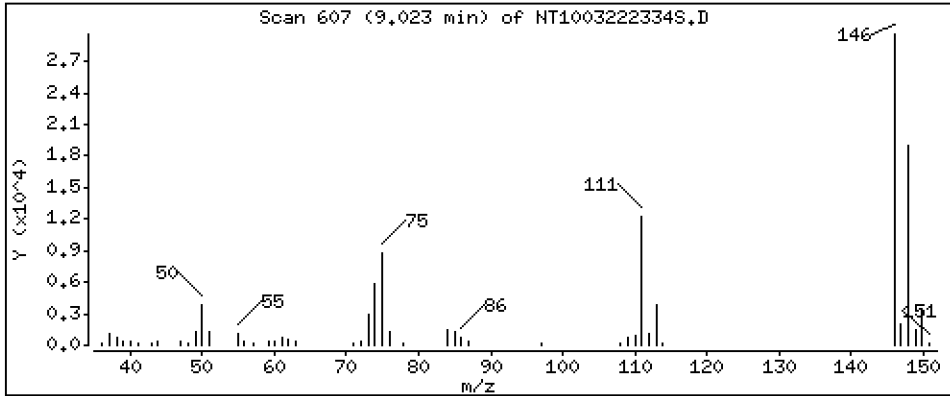
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

7 1,3-Dichlorobenzene

Concentration: 1,043 ug/L



Date : 23-MAR-2023 14:00

Client ID:

Instrument: nt10.i

Sample Info: SEQ-CCVSIH

Volume Injected (uL): 1.0

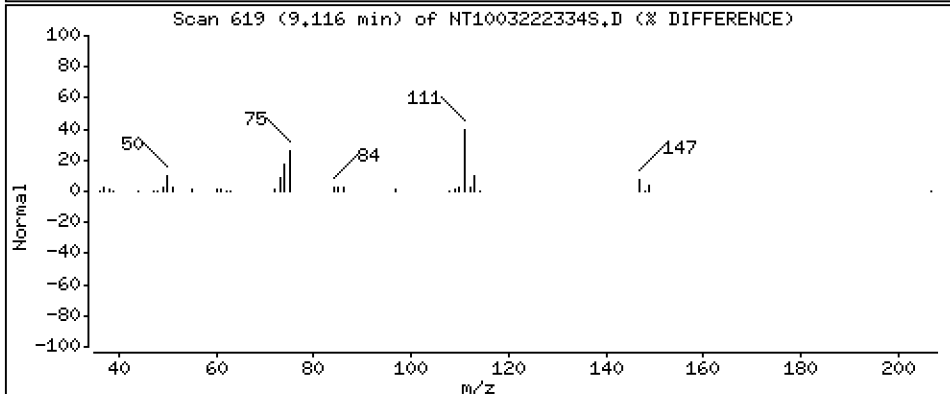
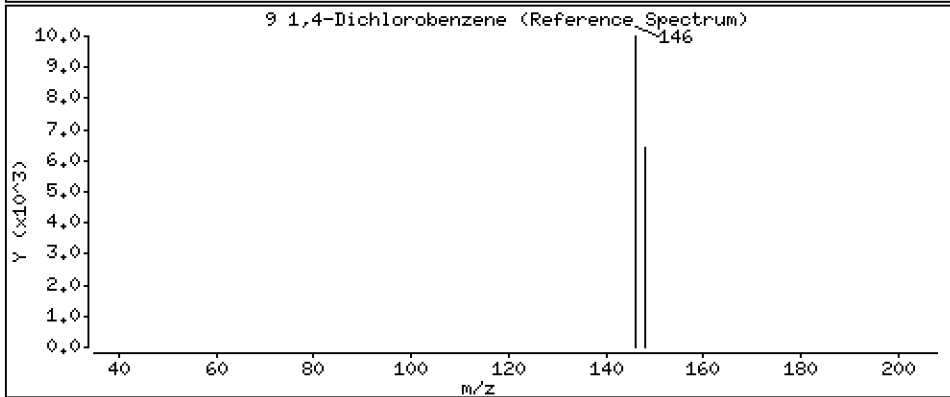
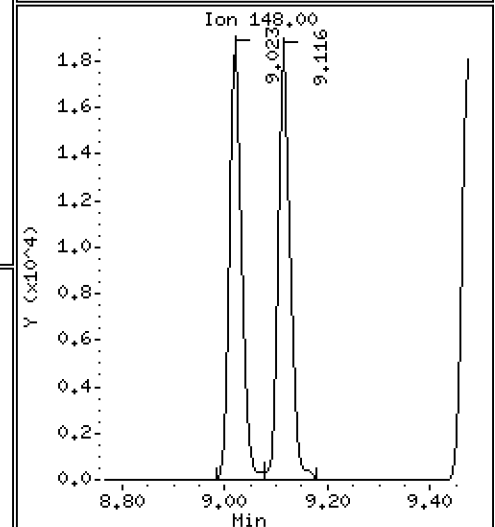
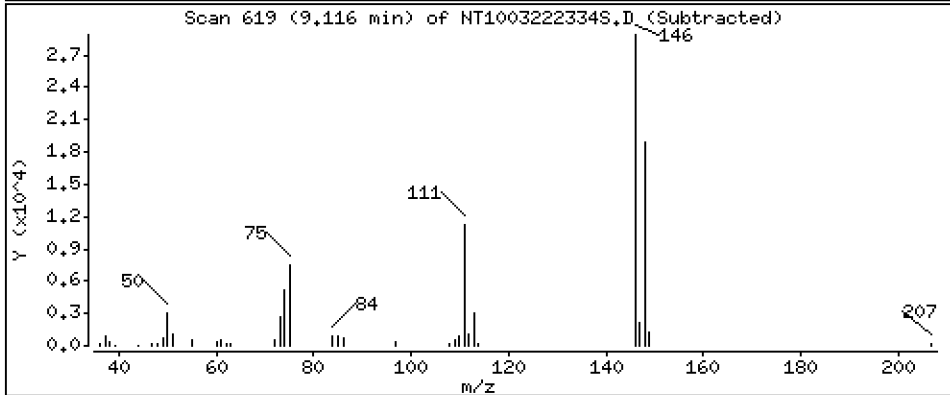
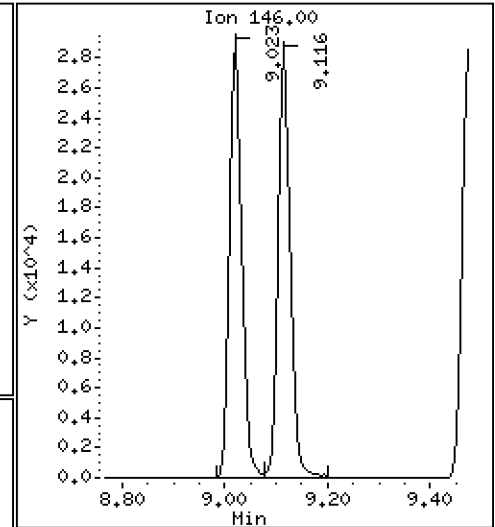
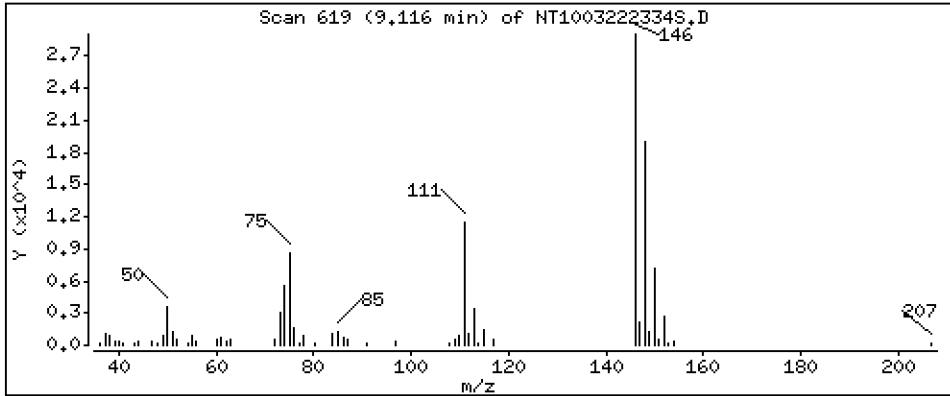
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 1,046 ug/L



Date : 23-MAR-2023 14:00

Client ID:

Instrument: nt10.i

Sample Info: SEQ-CCVSIM

Volume Injected (uL): 1.0

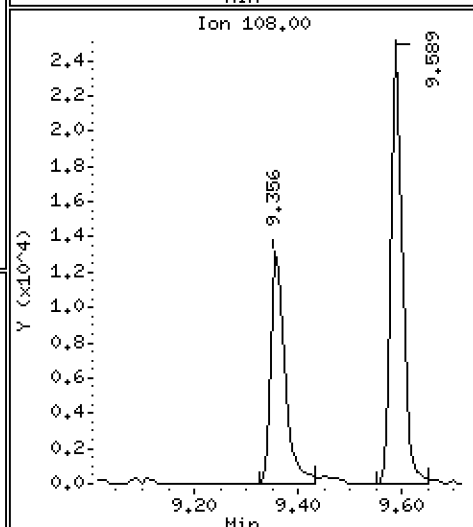
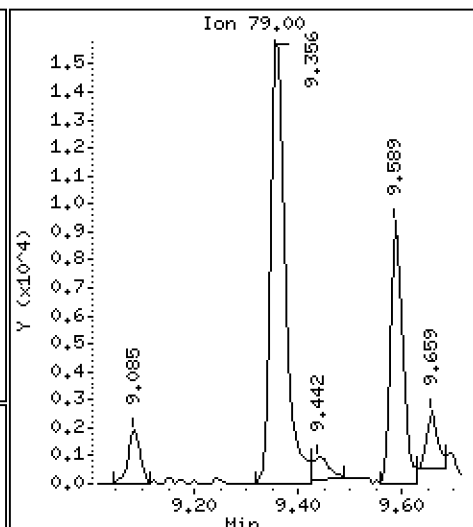
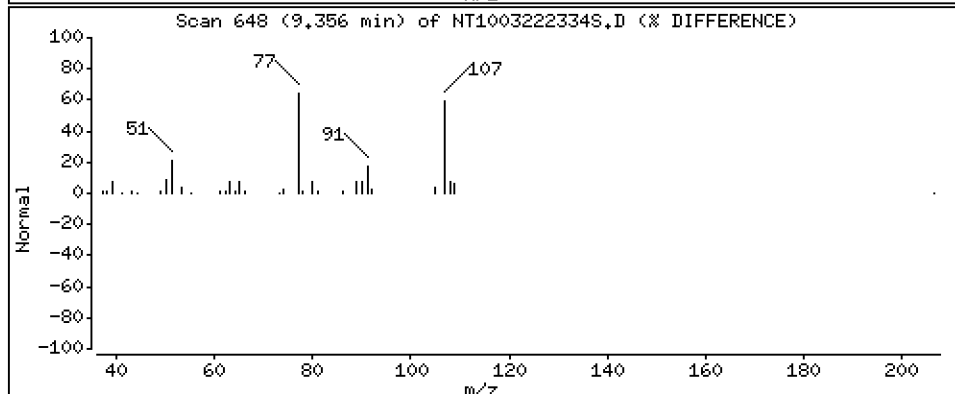
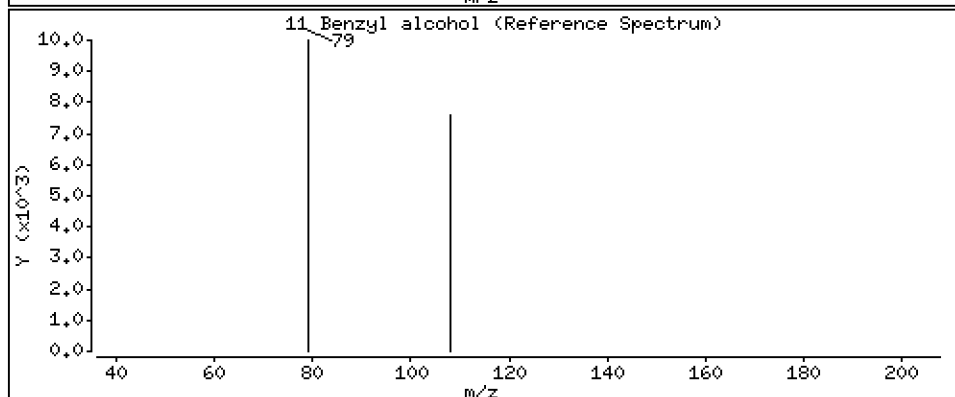
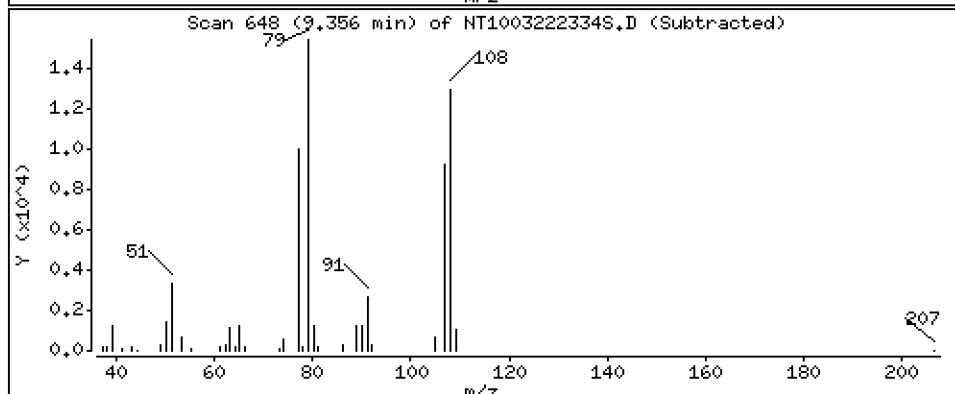
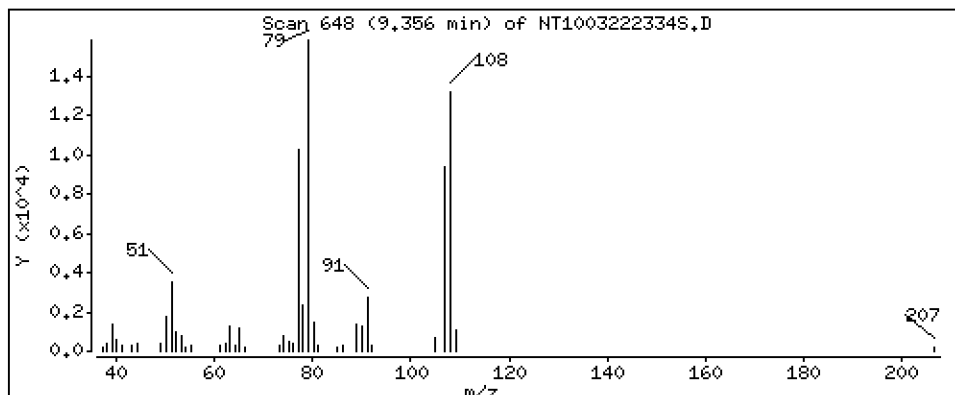
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 1.086 ug/L



Date : 23-MAR-2023 14:00

Client ID:

Instrument: nt10.i

Sample Info: SEQ-CCVSIM

Volume Injected (uL): 1.0

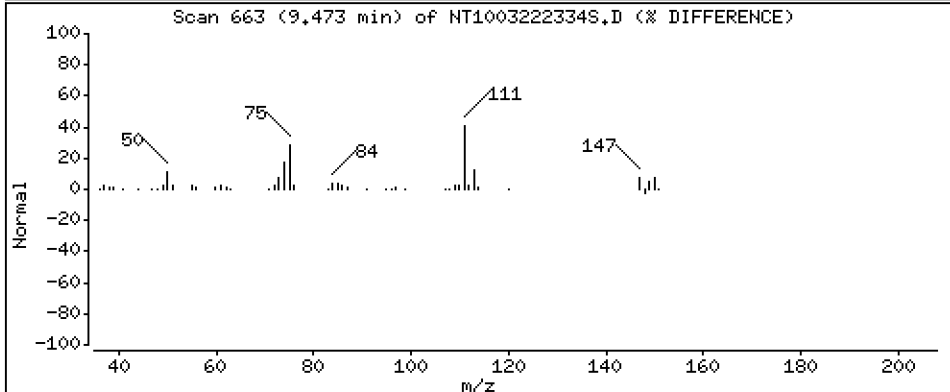
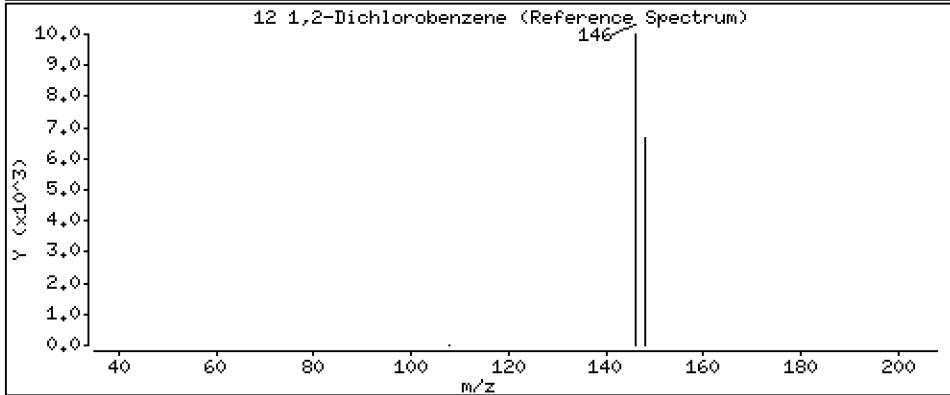
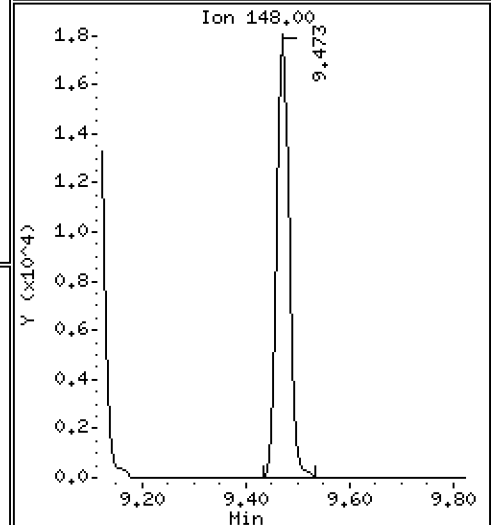
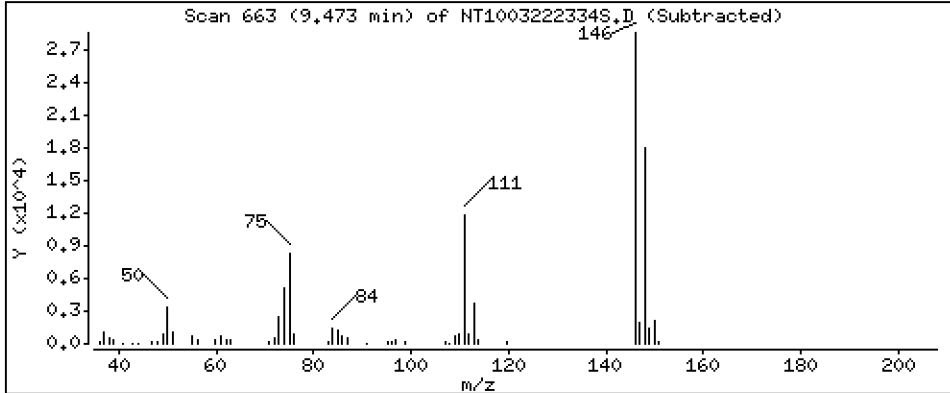
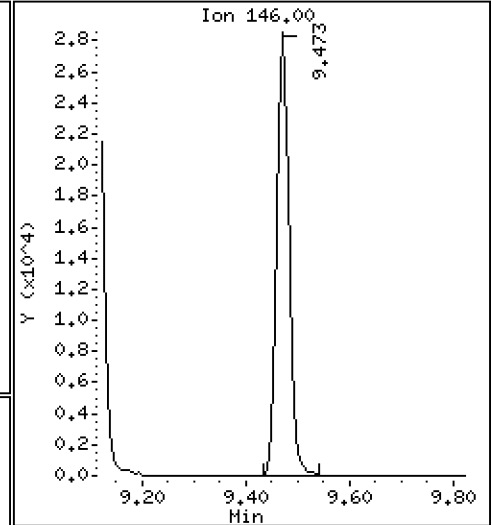
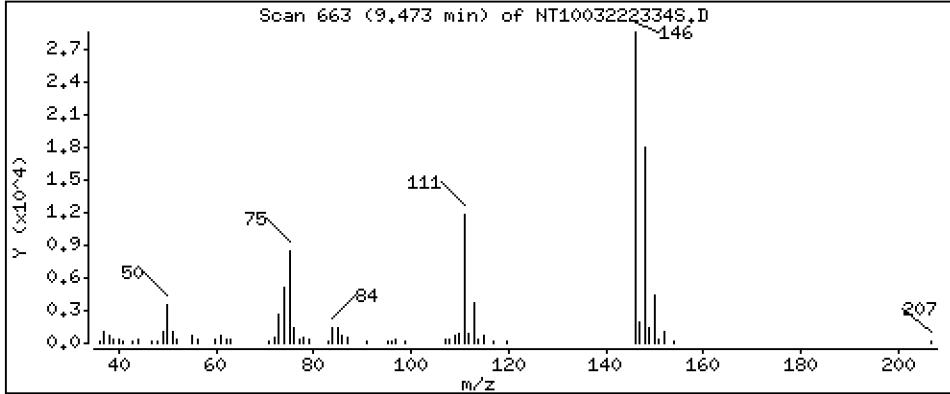
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

12 1,2-Dichlorobenzene

Concentration: 1.033 ug/L



Date : 23-MAR-2023 14:00

Client ID:

Instrument: nt10.i

Sample Info: SEQ-CCVSIH

Volume Injected (uL): 1.0

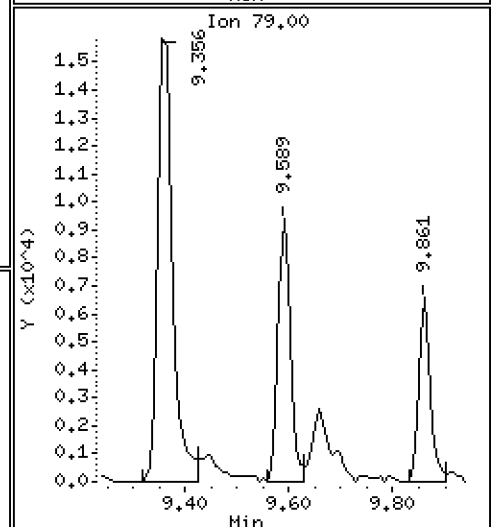
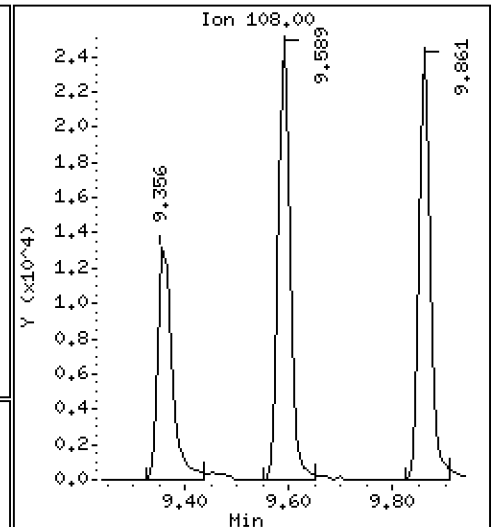
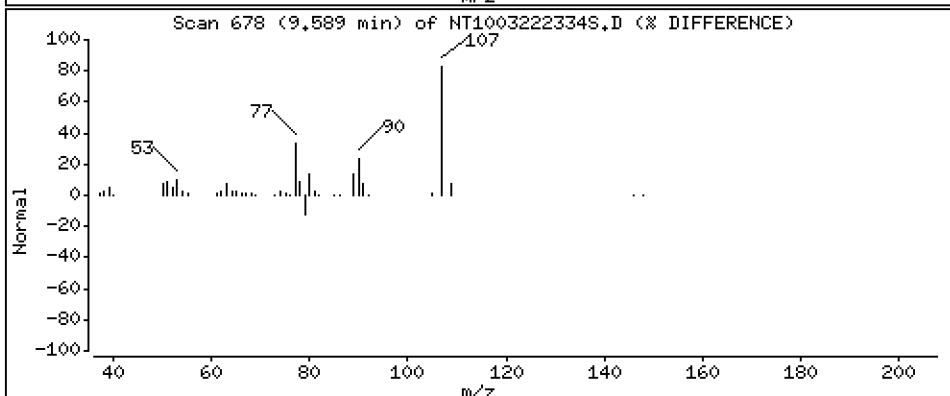
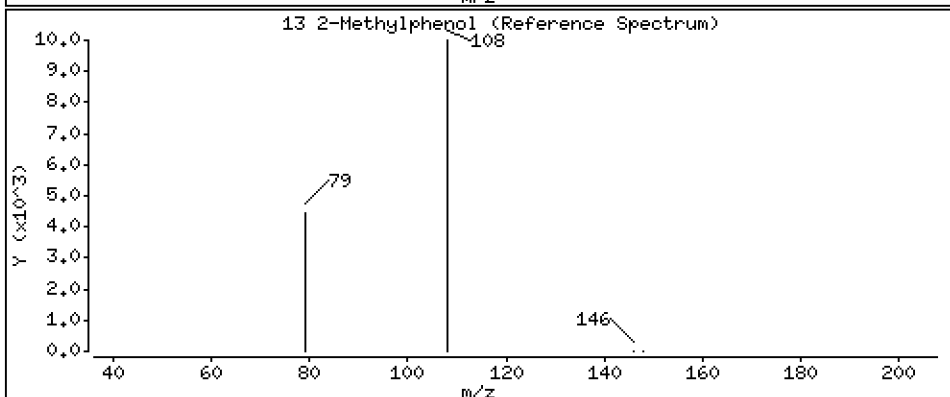
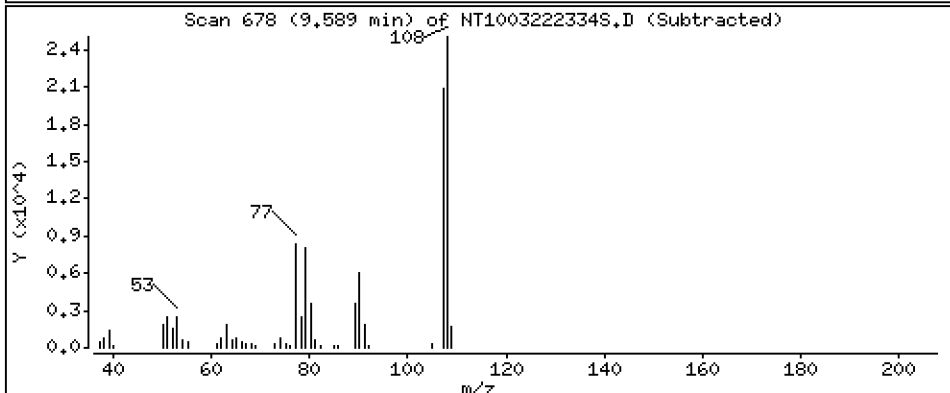
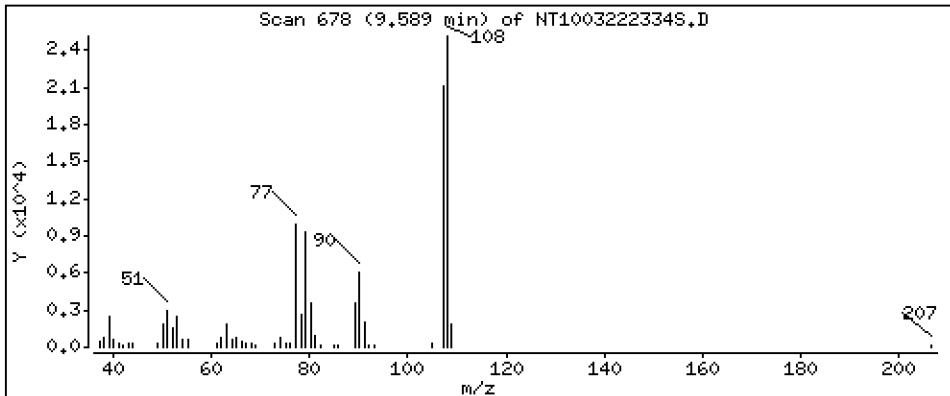
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

13 2-Methylphenol

Concentration: 1.117 ug/L



Date : 23-MAR-2023 14:00

Client ID:

Instrument: nt10.i

Sample Info: SEQ-CCVSIH

Volume Injected (uL): 1.0

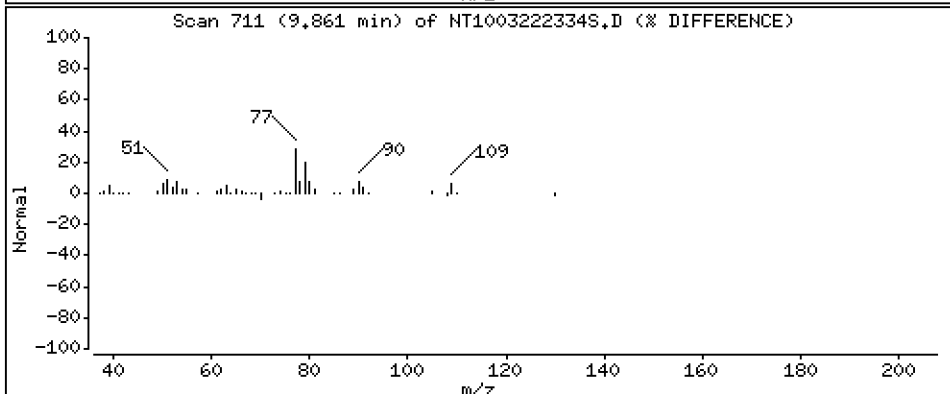
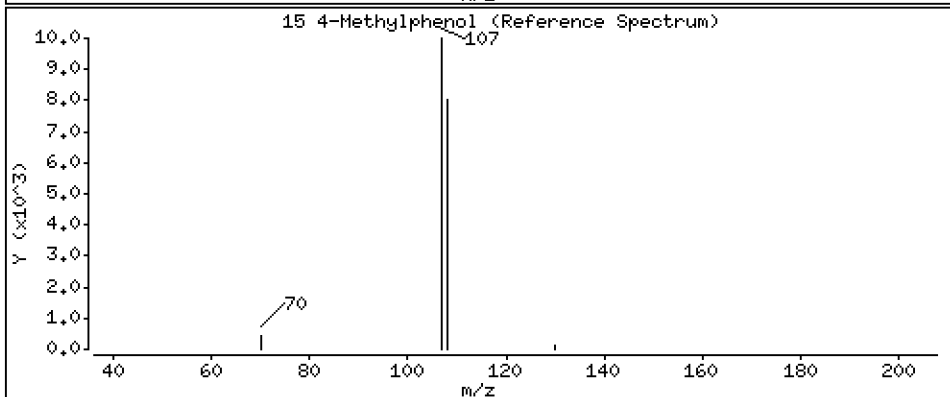
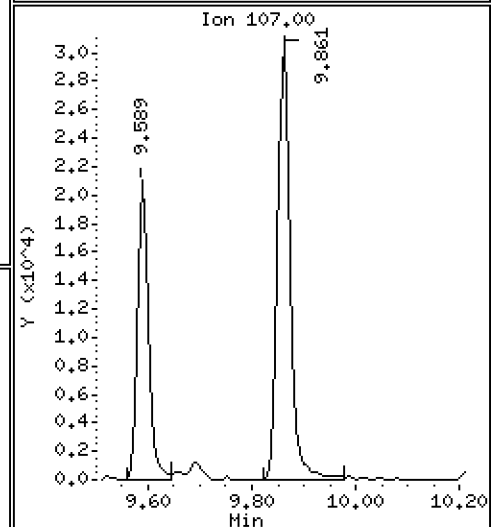
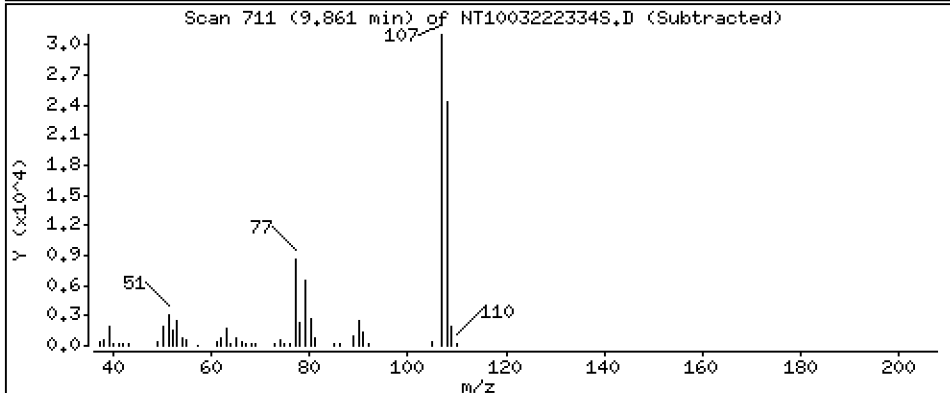
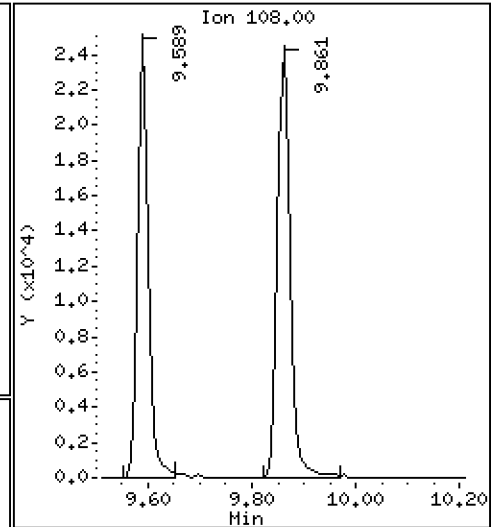
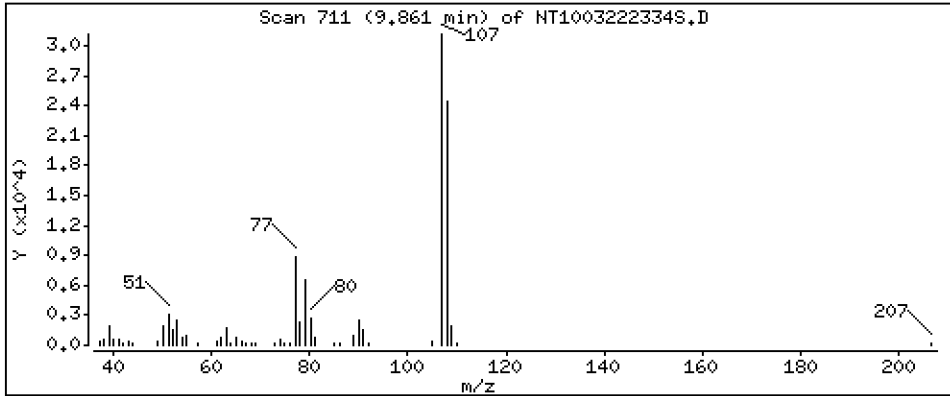
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 1.136 ug/L



Date : 23-MAR-2023 14:00

Client ID:

Instrument: nt10.i

Sample Info: SEQ-CCVSIH

Volume Injected (uL): 1.0

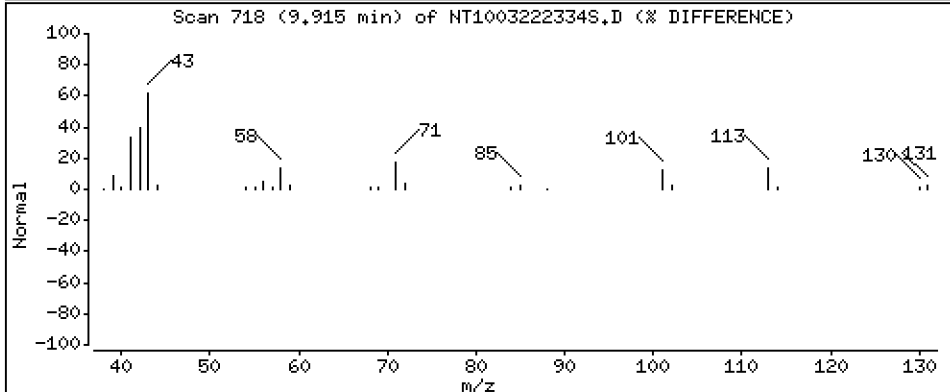
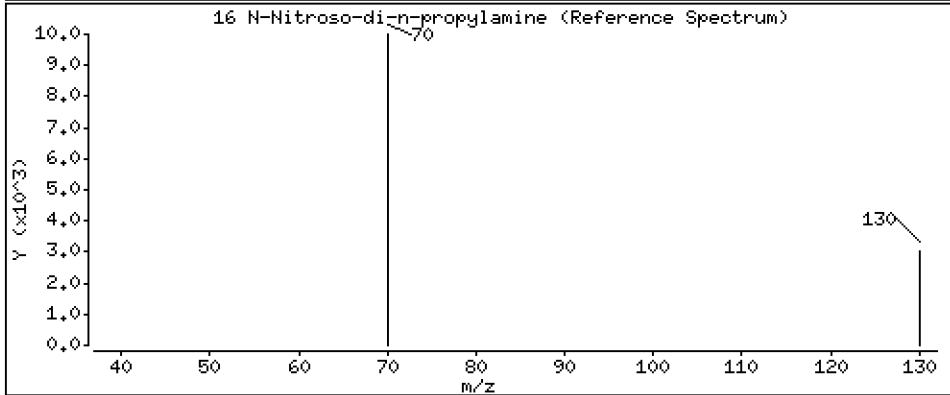
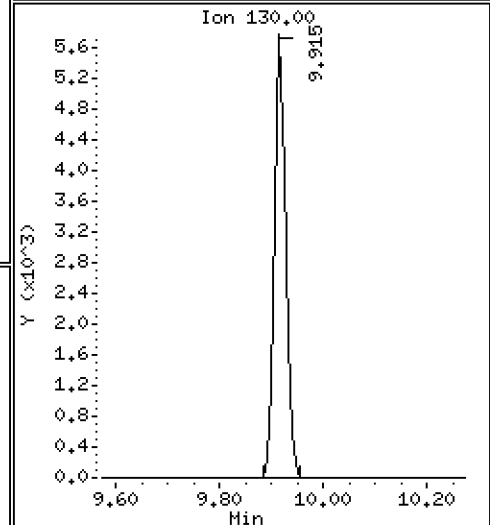
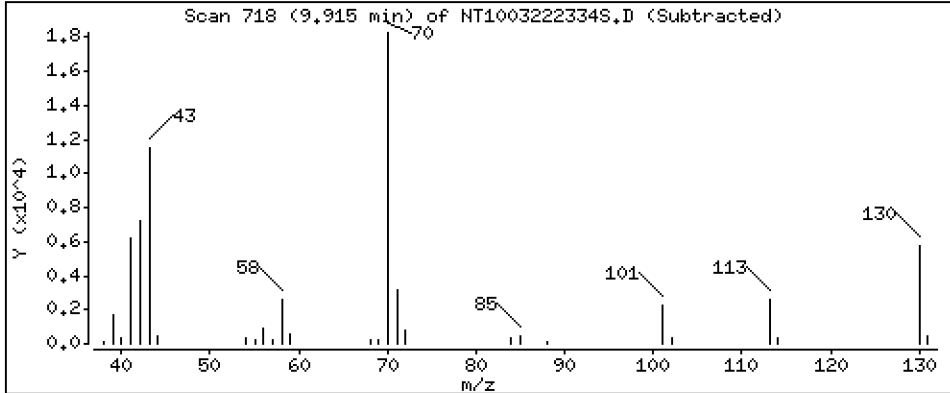
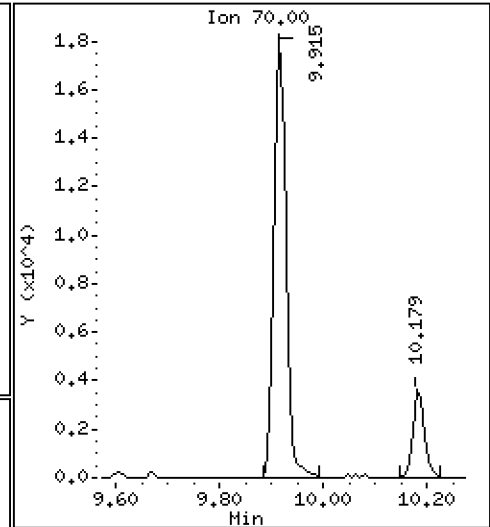
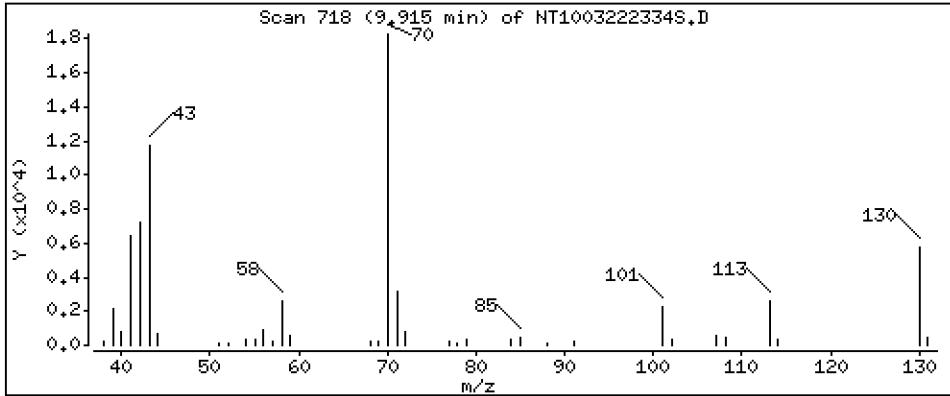
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

16 N-Nitroso-di-n-propylamine

Concentration: 1.121 ug/L



Date : 23-MAR-2023 14:00

Client ID:

Instrument: nt10.i

Sample Info: SEQ-CCVSIH

Volume Injected (uL): 1.0

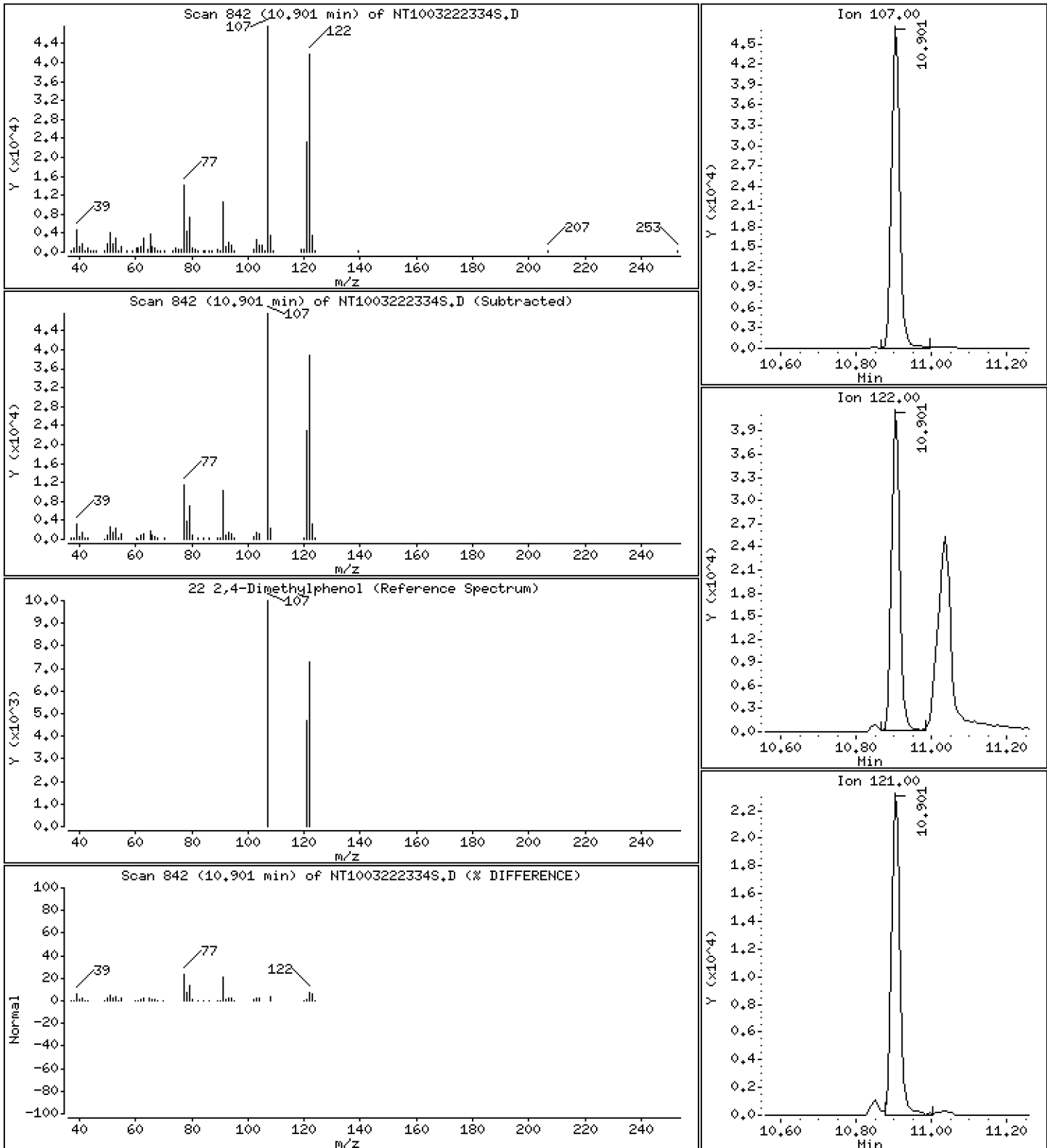
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 1,959 ug/L



Date : 23-MAR-2023 14:00

Client ID:

Instrument: nt10.i

Sample Info: SEQ-CCVSIH

Volume Injected (uL): 1.0

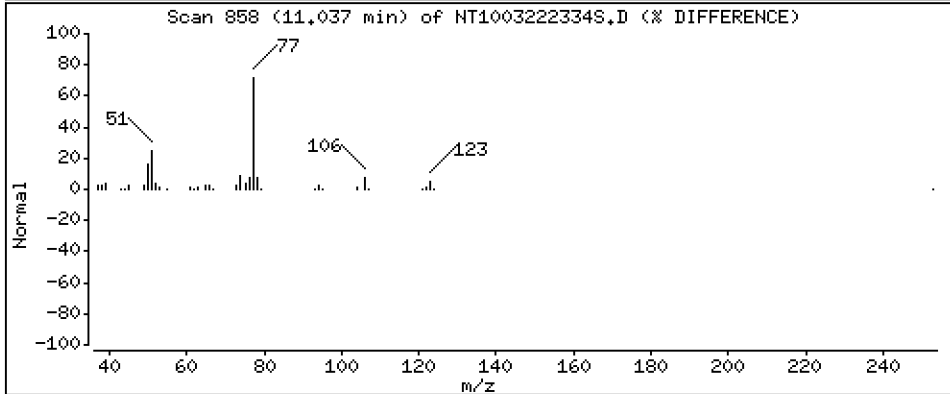
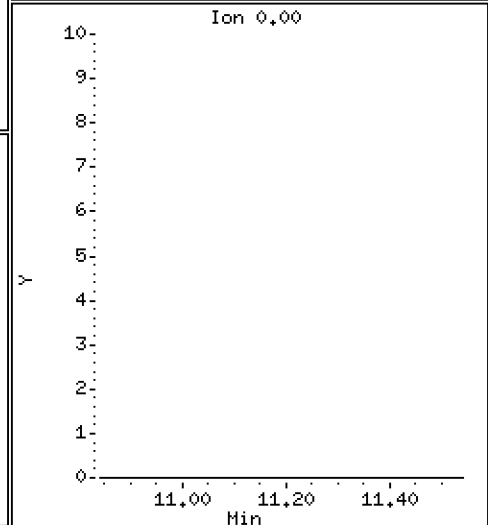
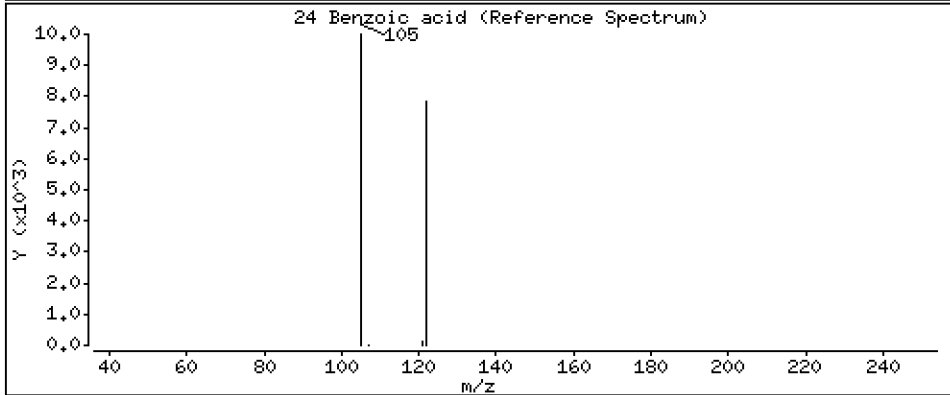
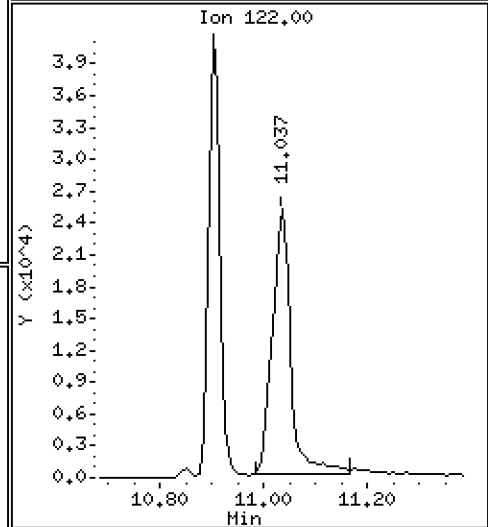
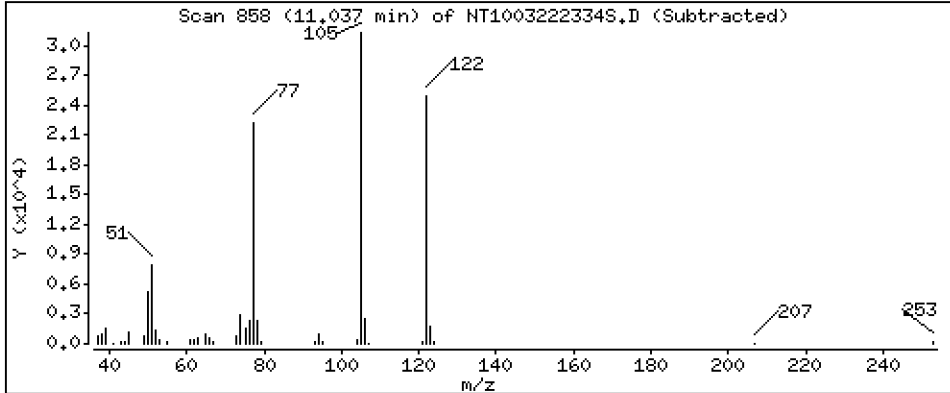
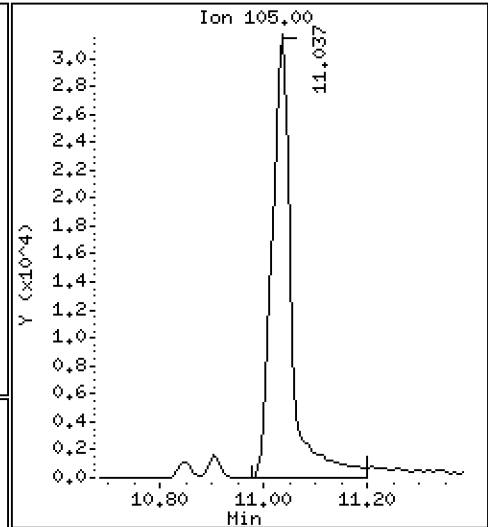
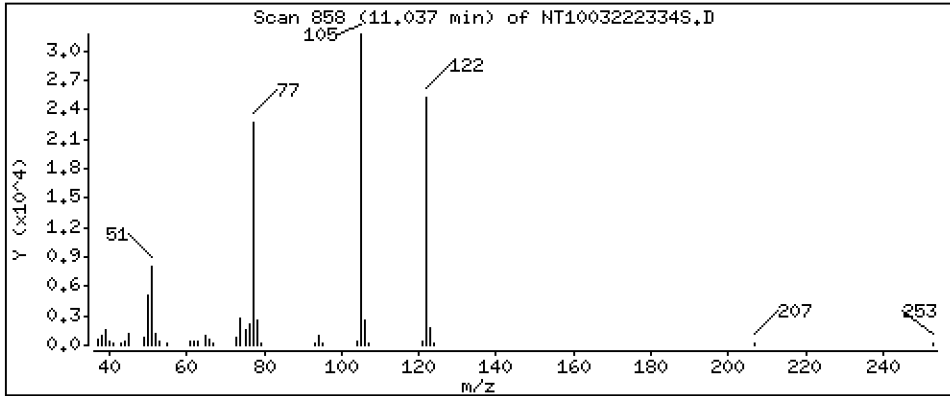
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

24 Benzoic acid

Concentration: 3,982 ug/L



Date : 23-MAR-2023 14:00

Client ID:

Instrument: nt10.i

Sample Info: SEQ-CCVSIM

Volume Injected (uL): 1.0

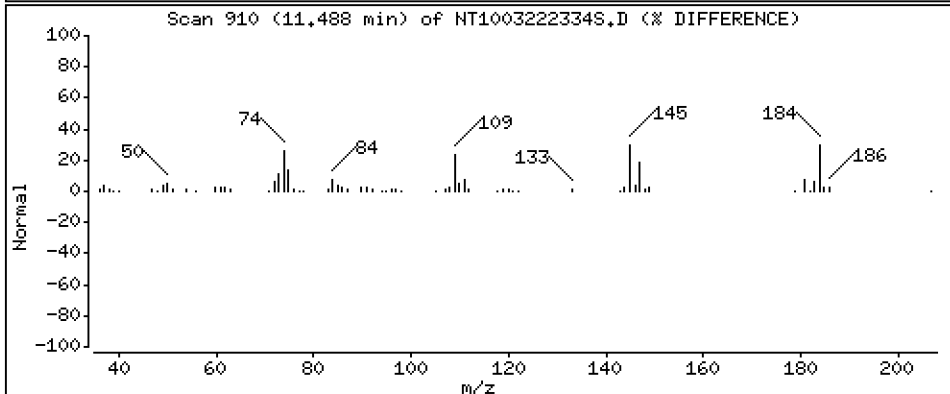
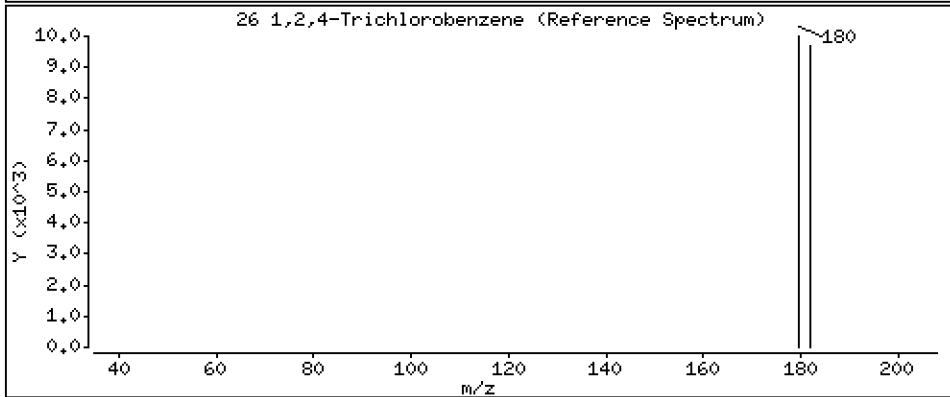
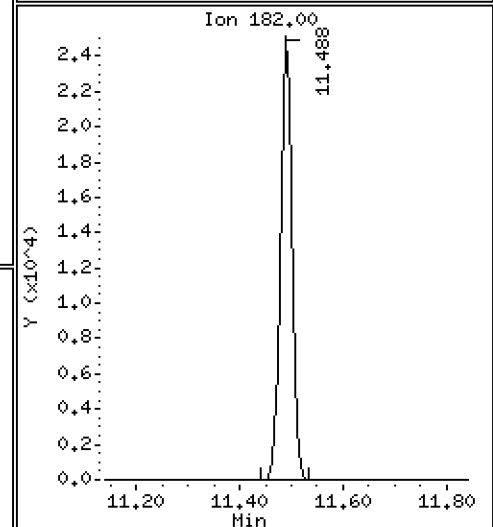
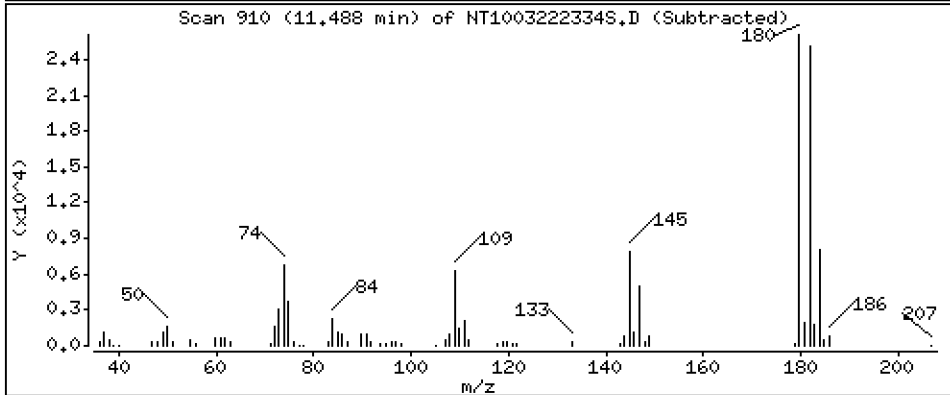
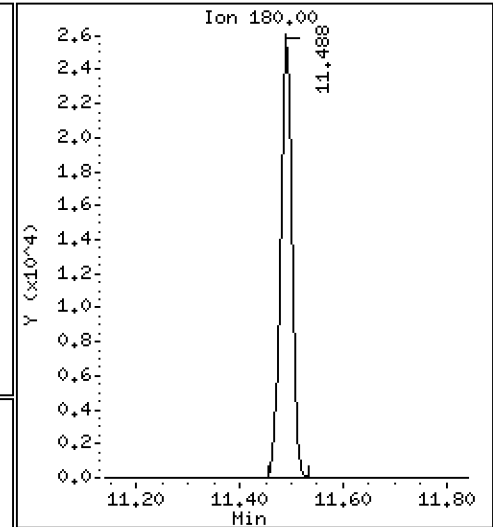
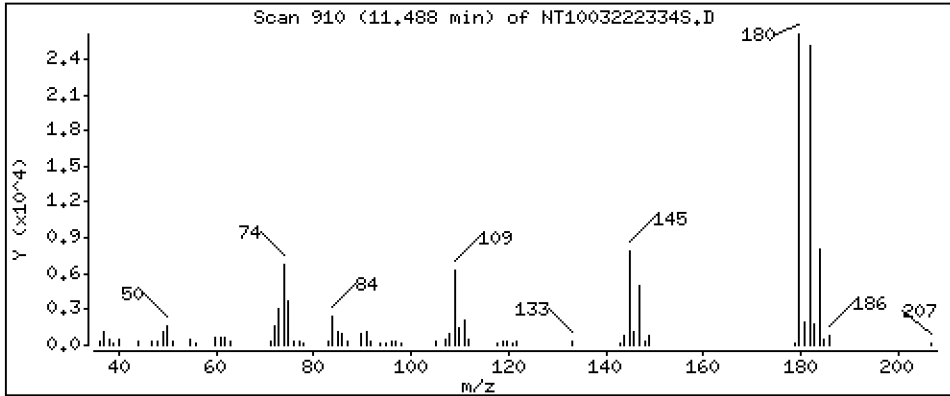
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

26 1,2,4-Trichlorobenzene

Concentration: 1.078 ug/L



Date : 23-MAR-2023 14:00

Client ID:

Instrument: nt10.i

Sample Info: SEQ-CCVSIH

Volume Injected (uL): 1.0

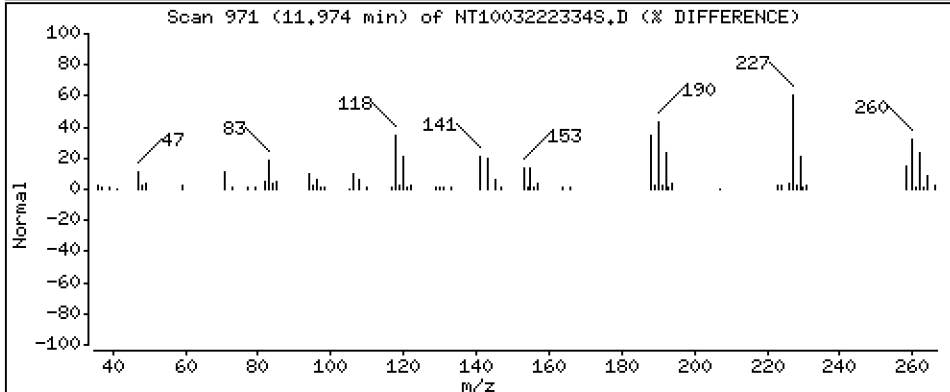
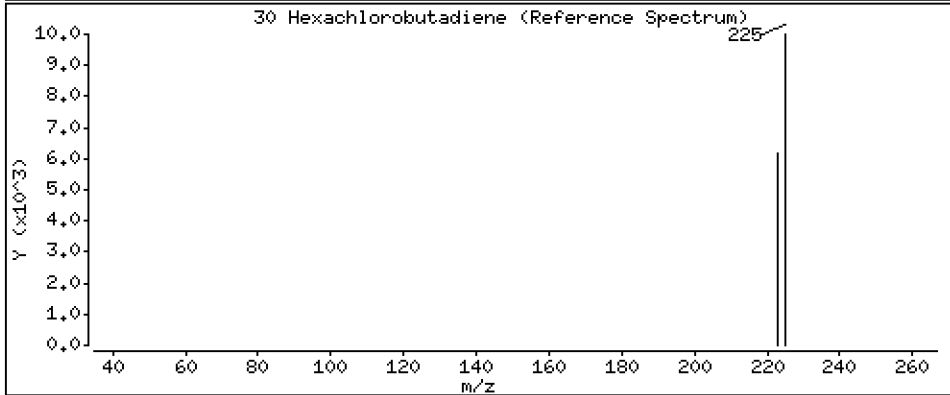
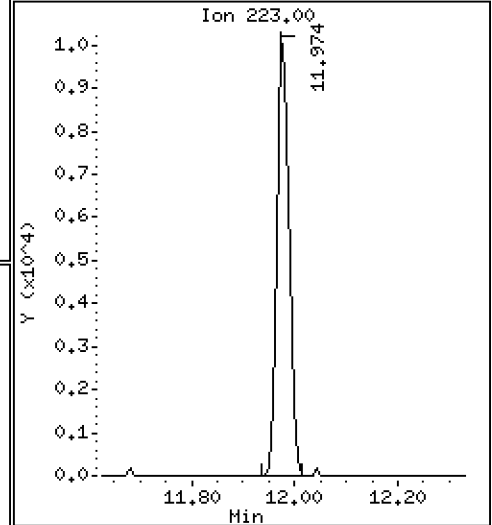
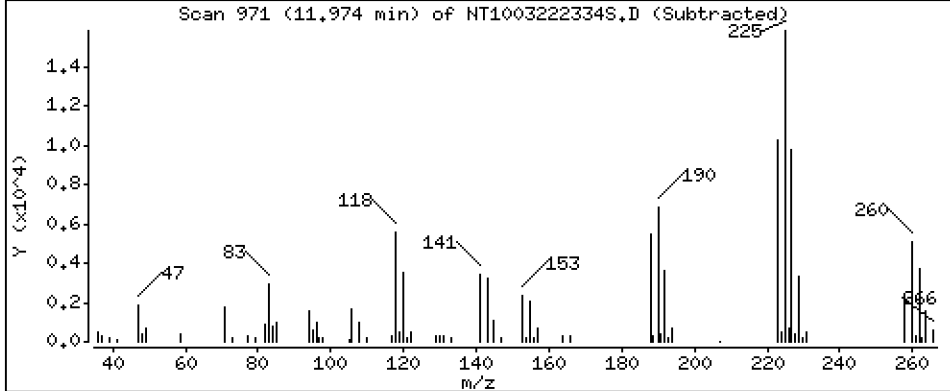
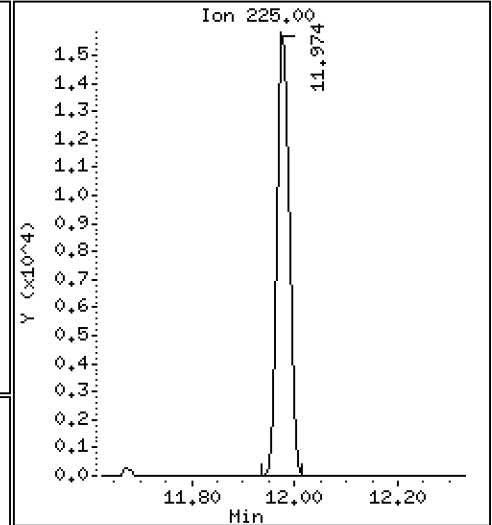
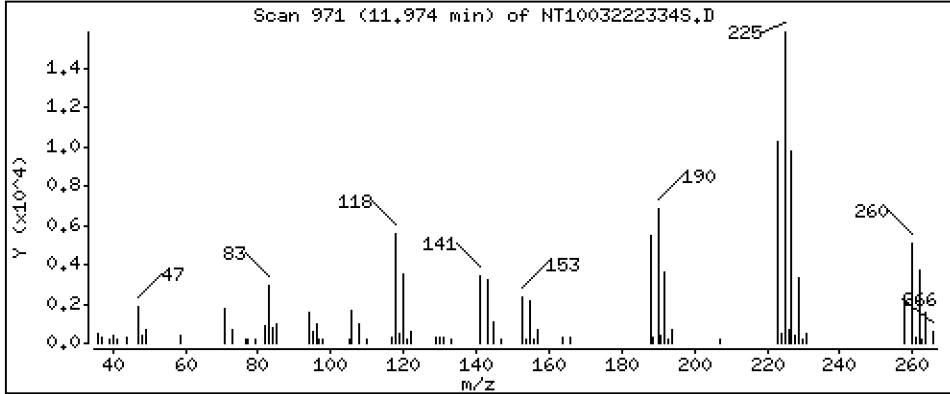
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

30 Hexachlorobutadiene

Concentration: 1.090 ug/L



Date : 23-MAR-2023 14:00

Client ID:

Instrument: nt10.i

Sample Info: SEQ-CCVSIH

Volume Injected (uL): 1.0

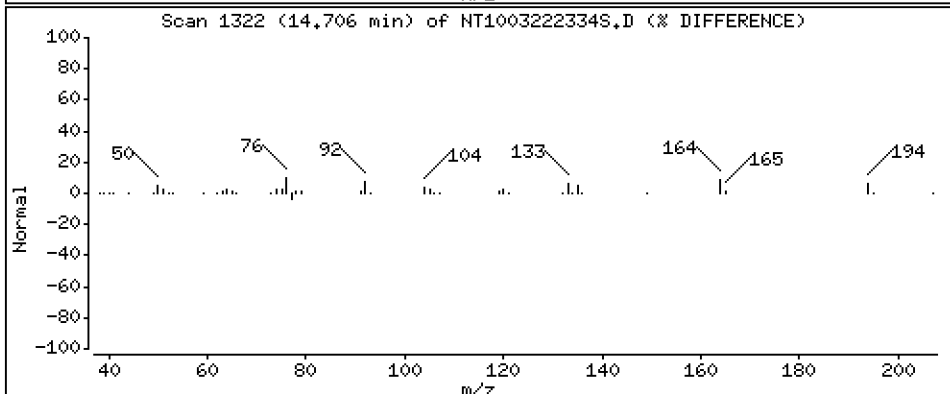
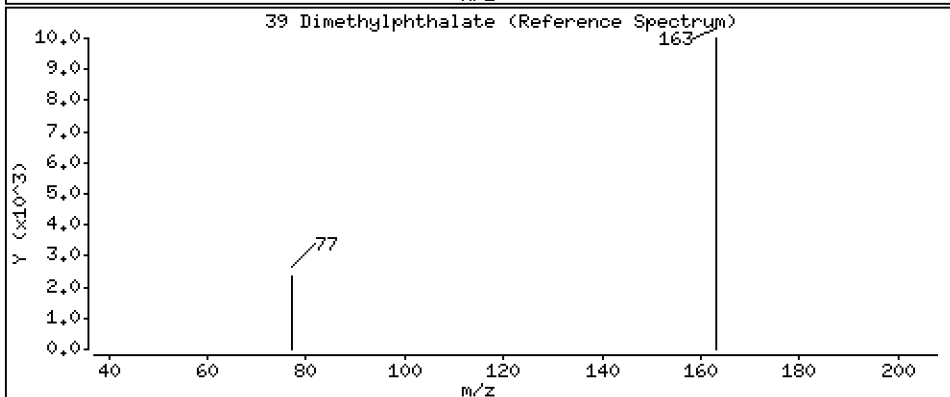
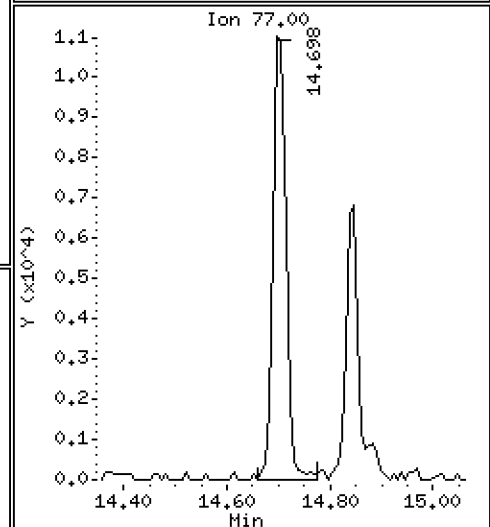
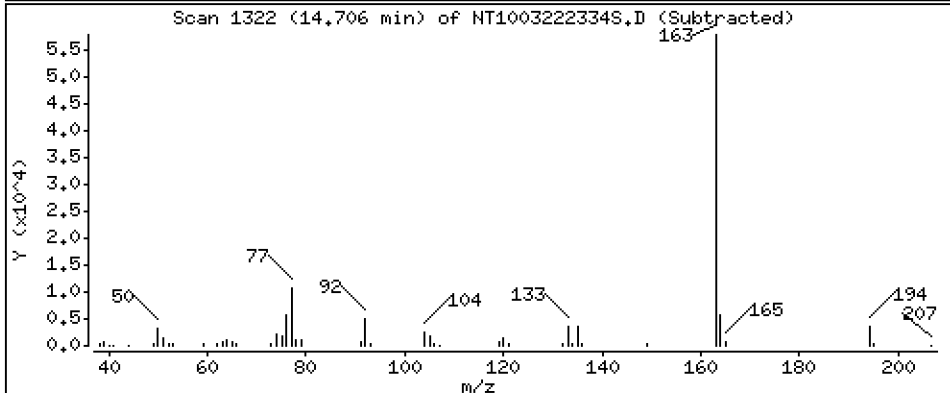
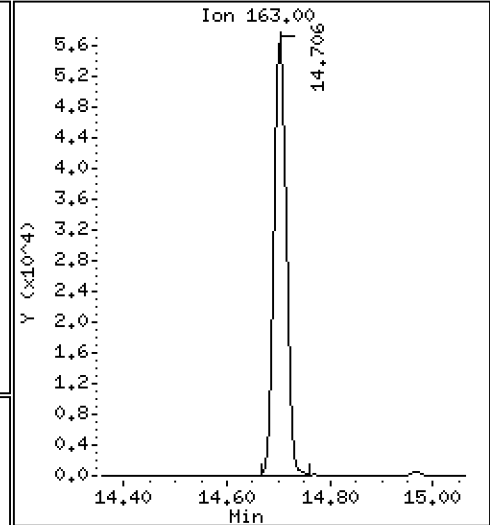
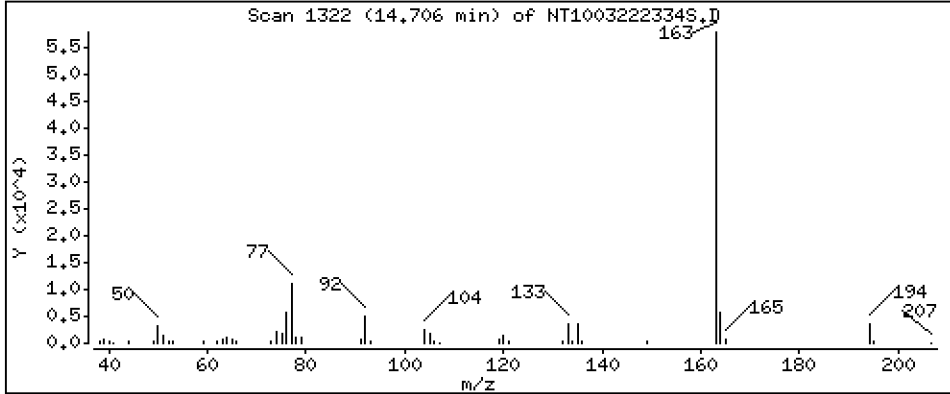
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 1,250 ug/L



Date : 23-MAR-2023 14:00

Client ID:

Instrument: nt10.i

Sample Info: SEQ-CCVSIH

Volume Injected (uL): 1.0

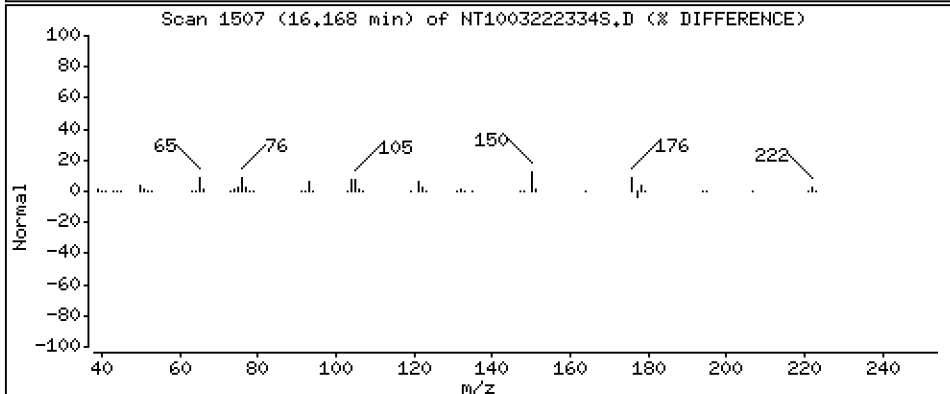
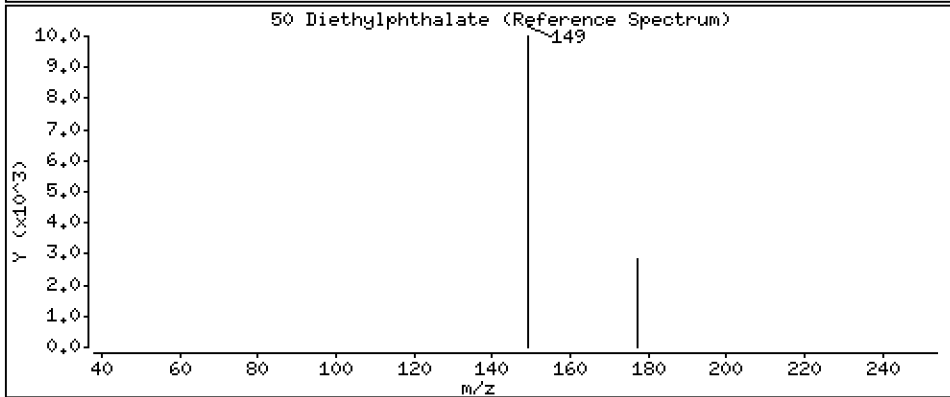
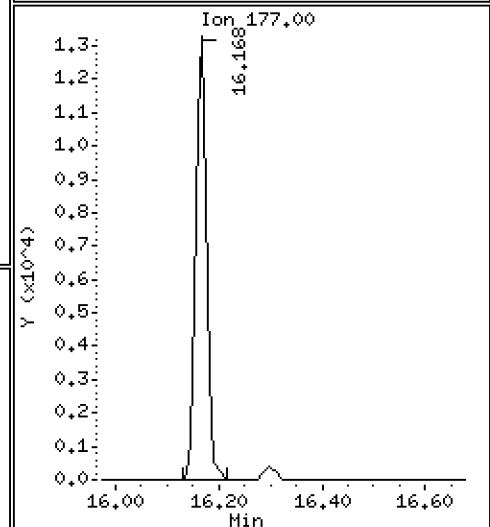
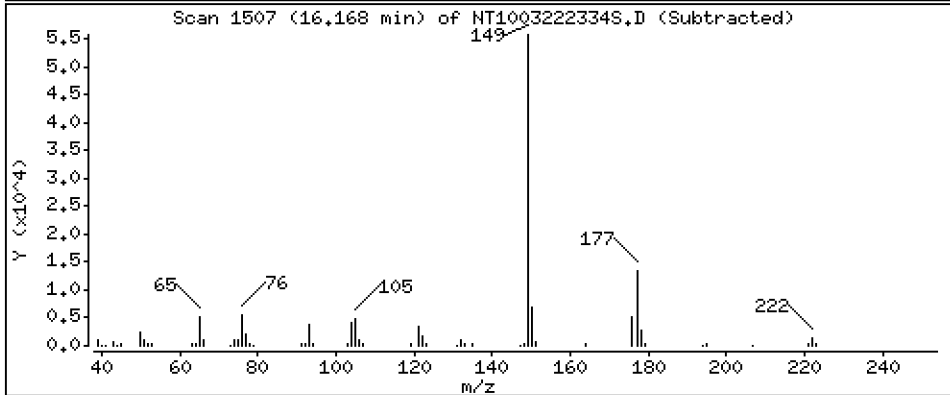
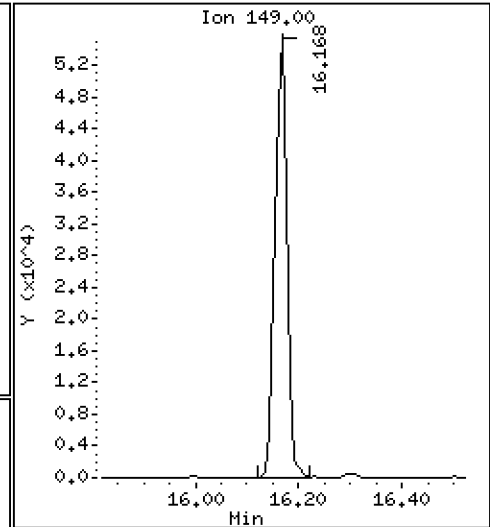
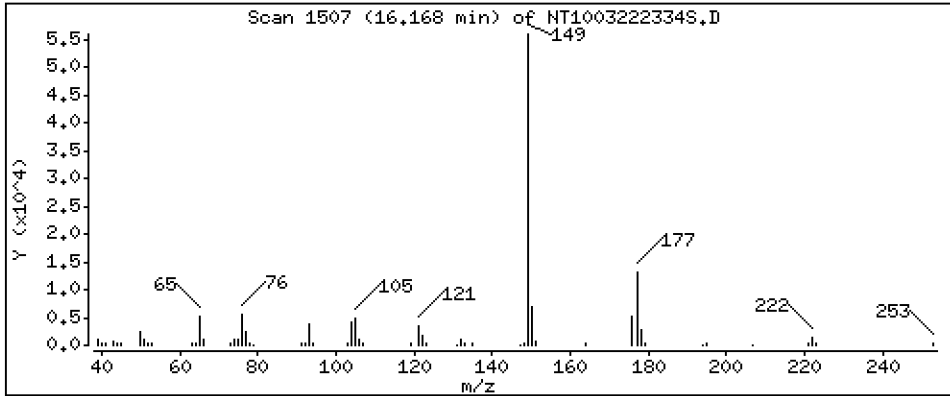
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 1,362 ug/L



Date : 23-MAR-2023 14:00

Client ID:

Instrument: nt10.i

Sample Info: SEQ-CCVSIH

Volume Injected (uL): 1.0

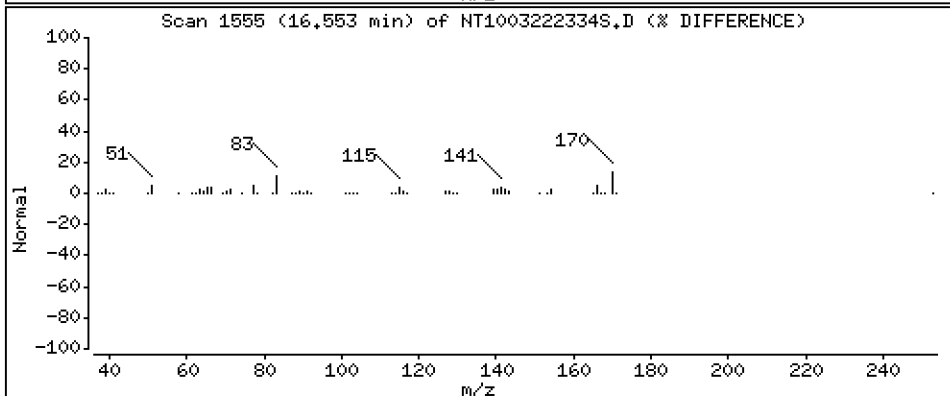
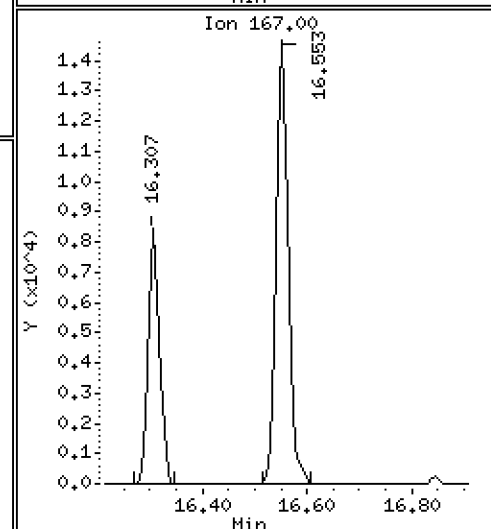
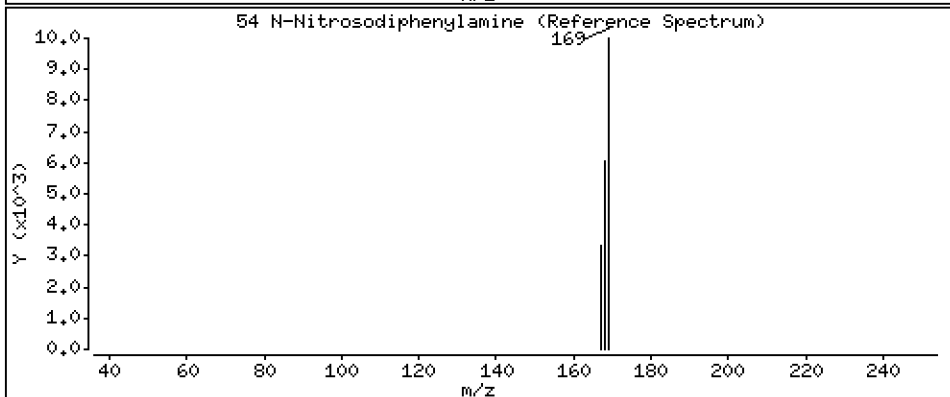
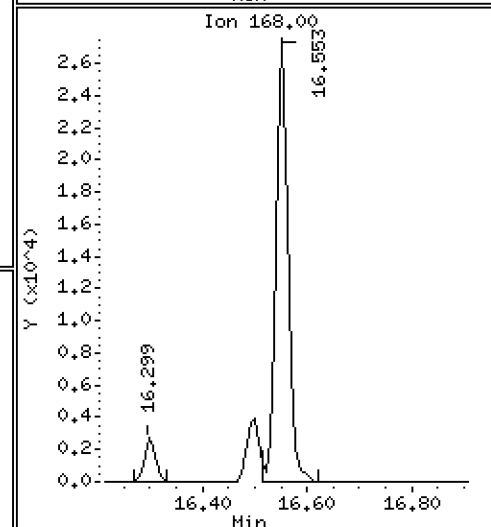
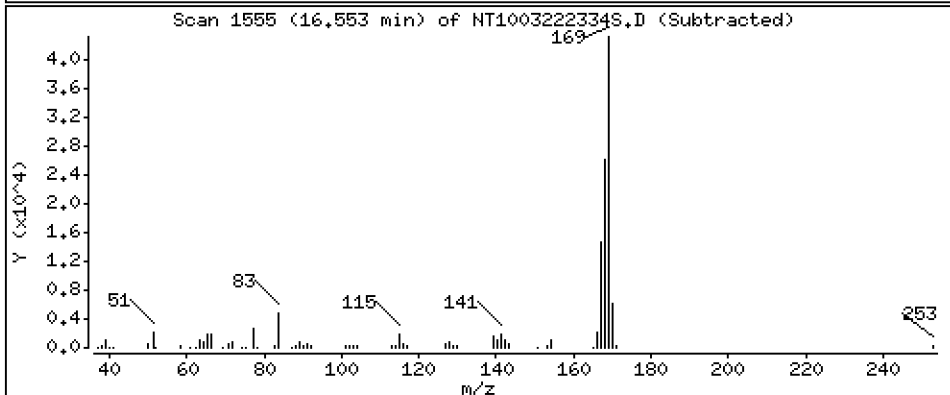
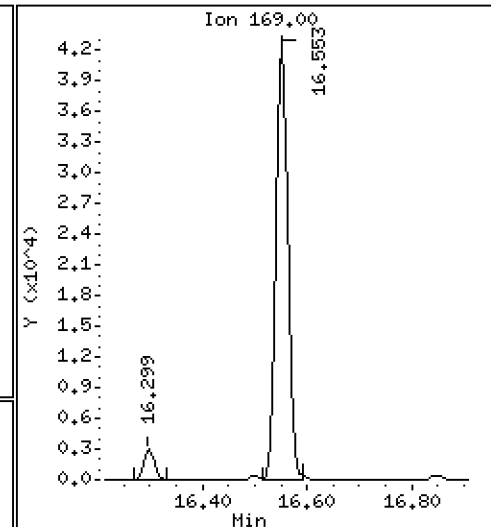
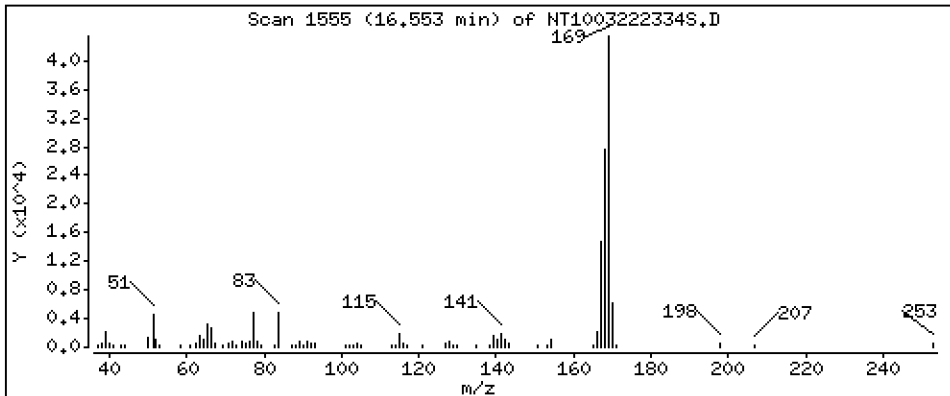
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

54 N-Nitrosodiphenylamine

Concentration: 1.058 ug/L



Date : 23-MAR-2023 14:00

Client ID:

Instrument: nt10.i

Sample Info: SEQ-CCVSIH

Volume Injected (uL): 1.0

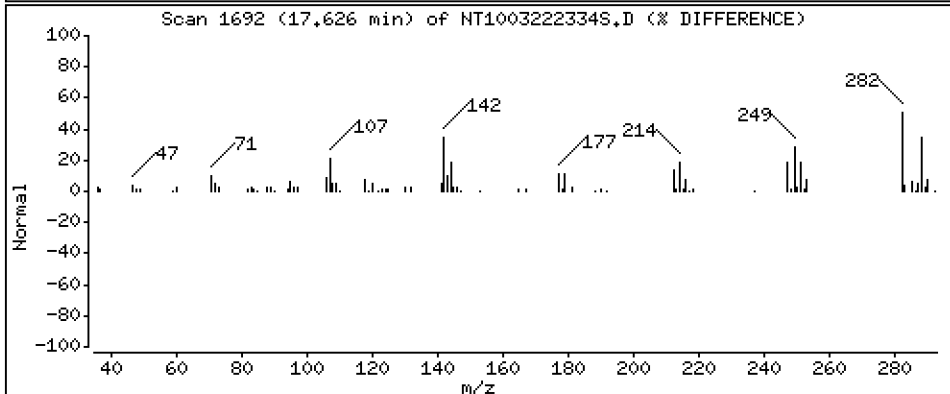
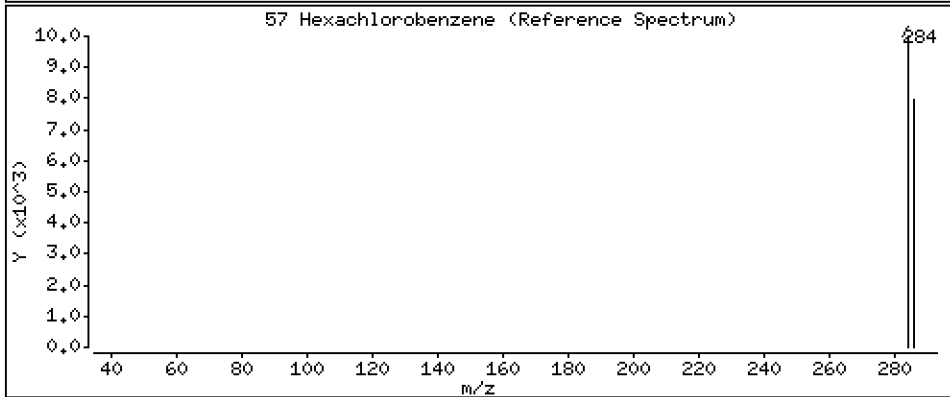
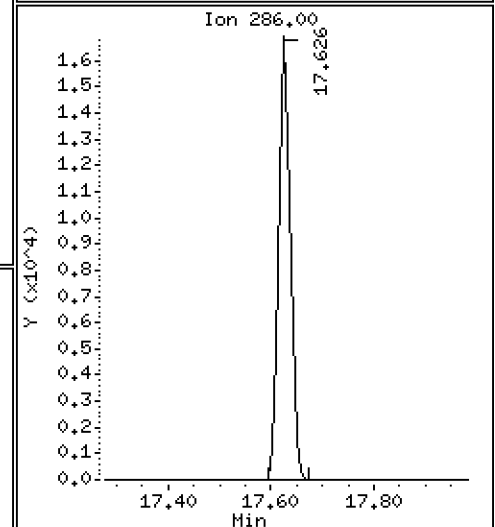
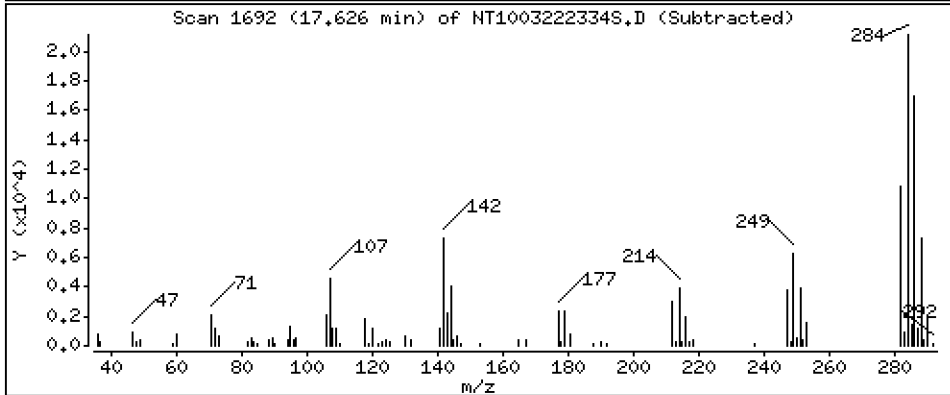
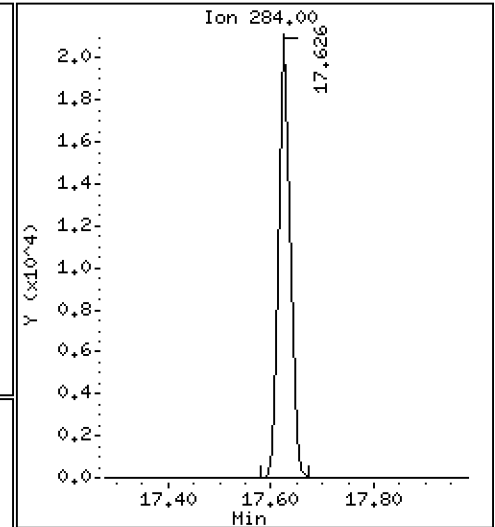
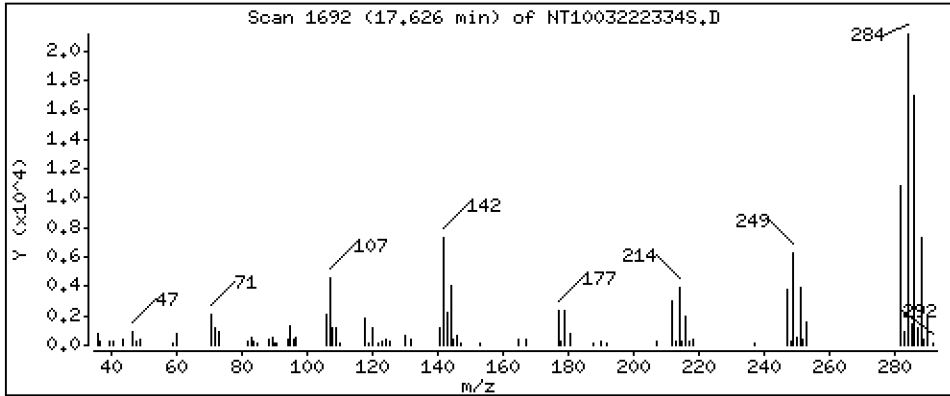
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

57 Hexachlorobenzene

Concentration: 1.165 ug/L



Date : 23-MAR-2023 14:00

Client ID:

Instrument: nt10.i

Sample Info: SEQ-CCVSIH

Volume Injected (uL): 1.0

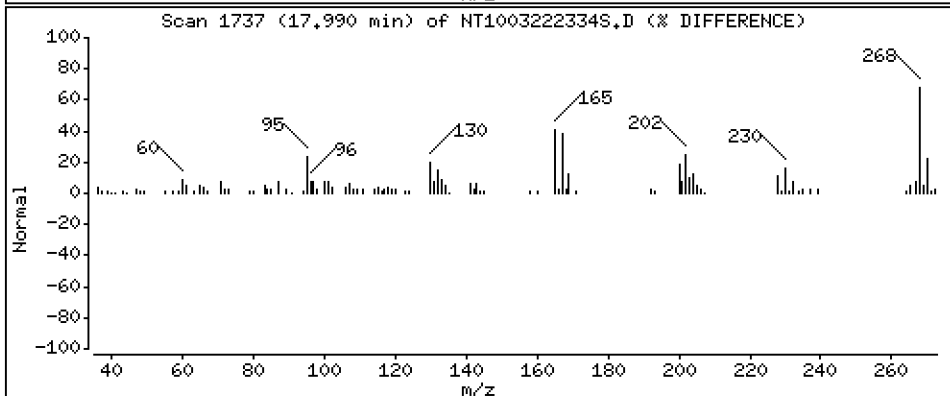
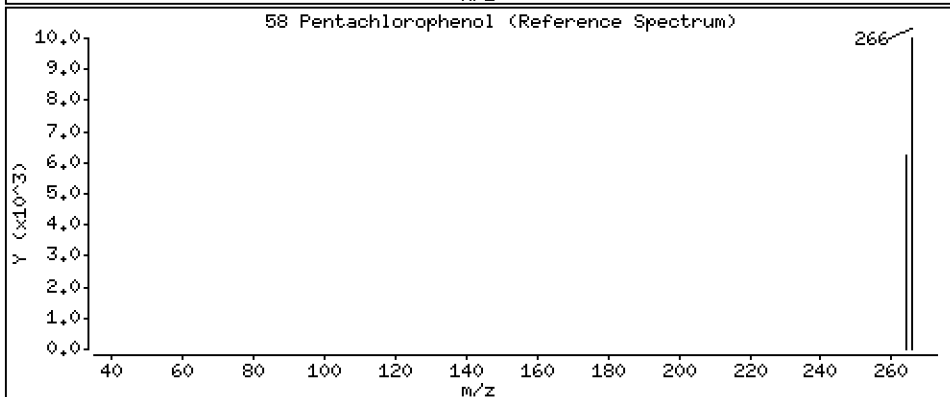
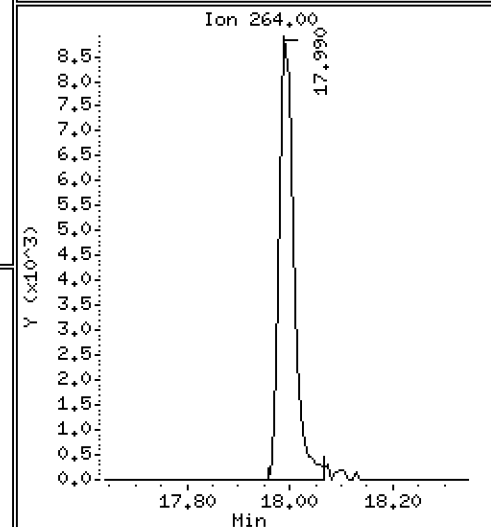
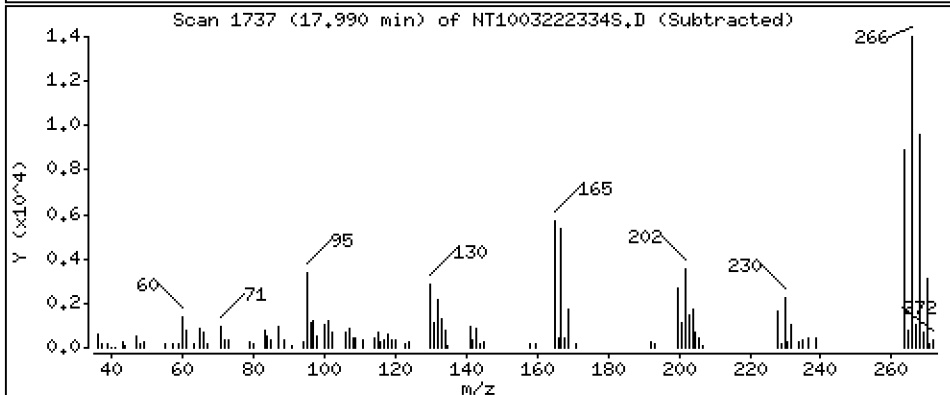
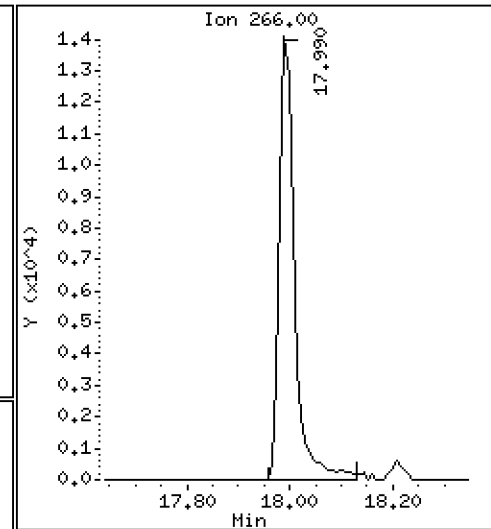
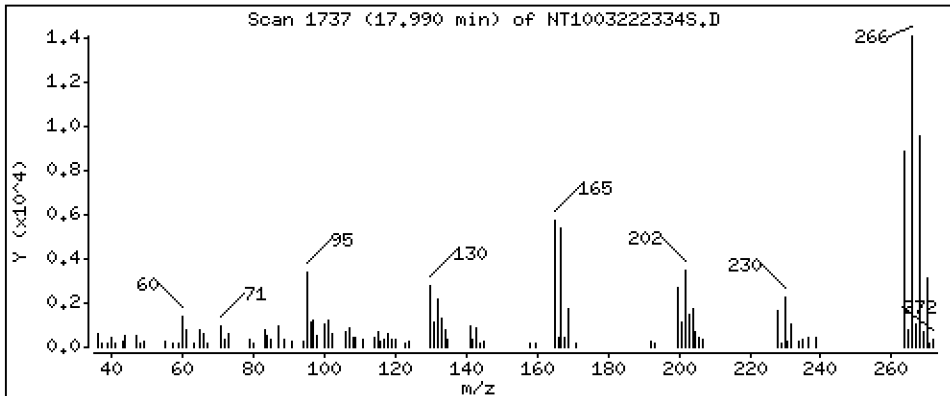
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 1,850 ug/L



Date : 23-MAR-2023 14:00

Client ID:

Instrument: nt10.i

Sample Info: SEQ-CCVSIH

Volume Injected (uL): 1.0

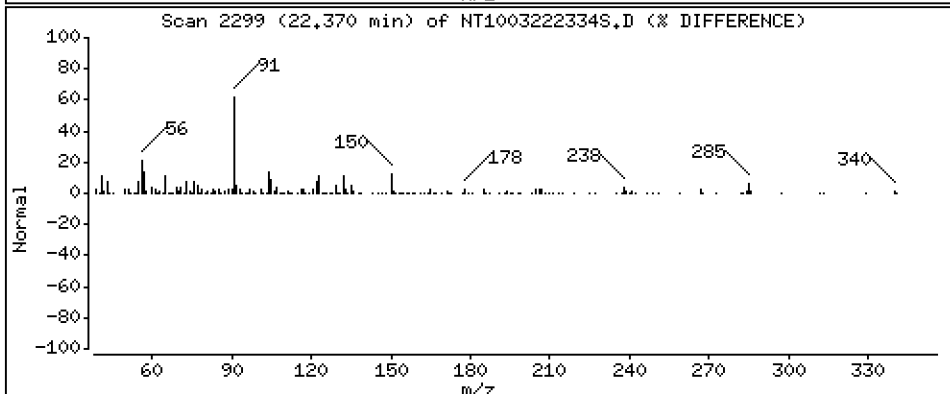
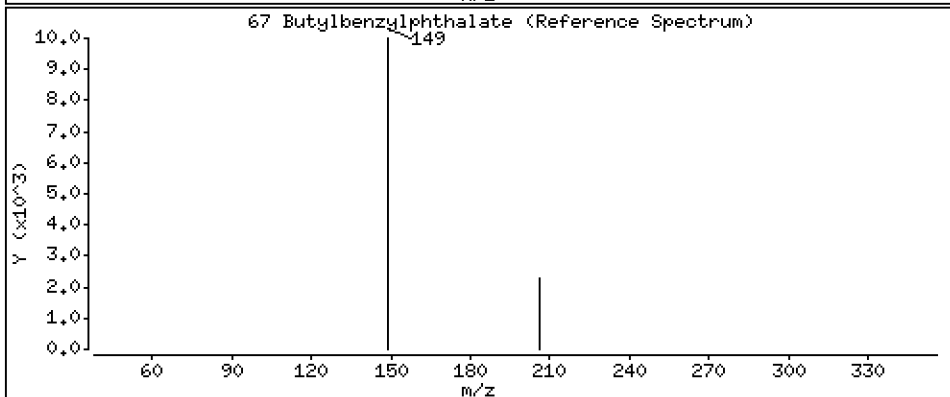
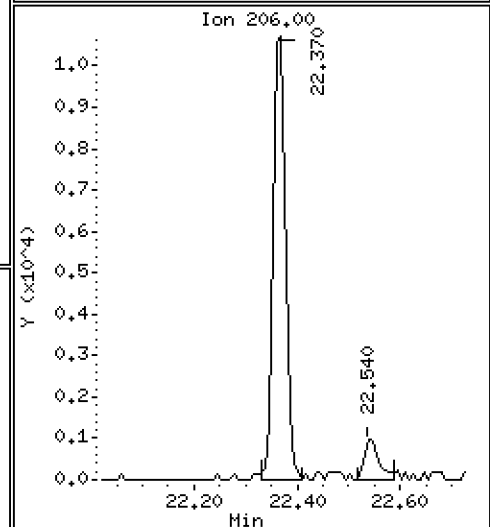
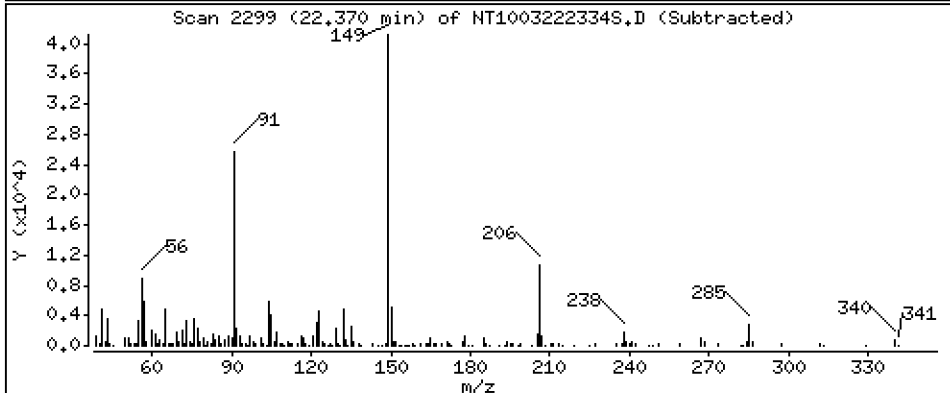
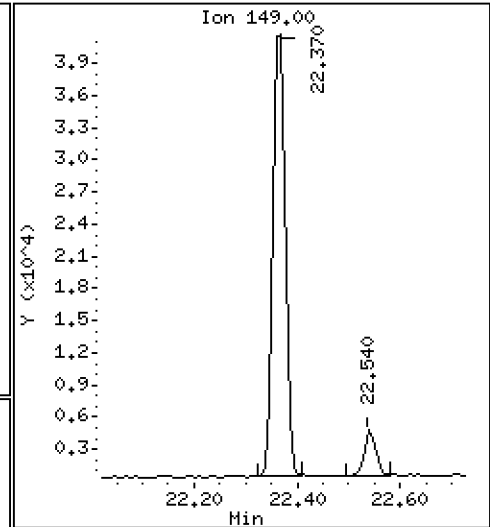
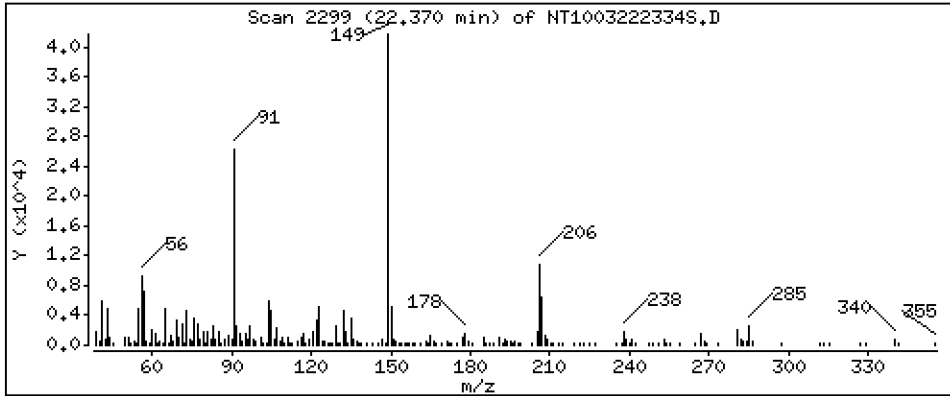
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 1,169 ug/L



Date : 23-MAR-2023 14:00

Client ID:

Instrument: nt10.i

Sample Info: SEQ-CCVSIH

Volume Injected (uL): 1.0

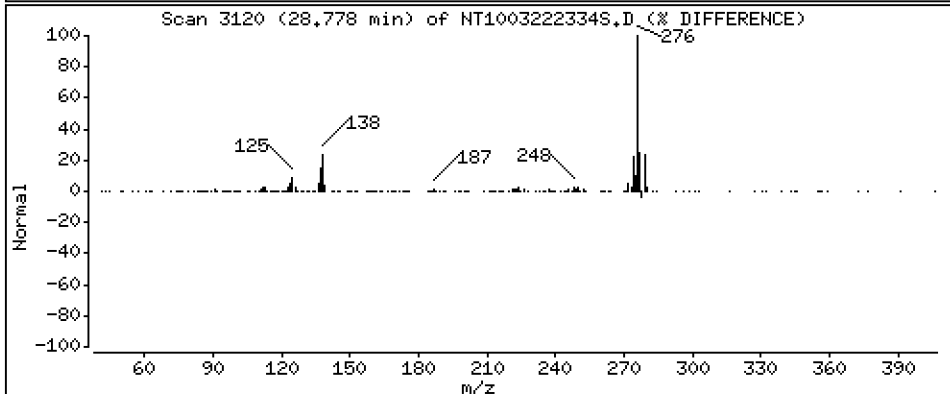
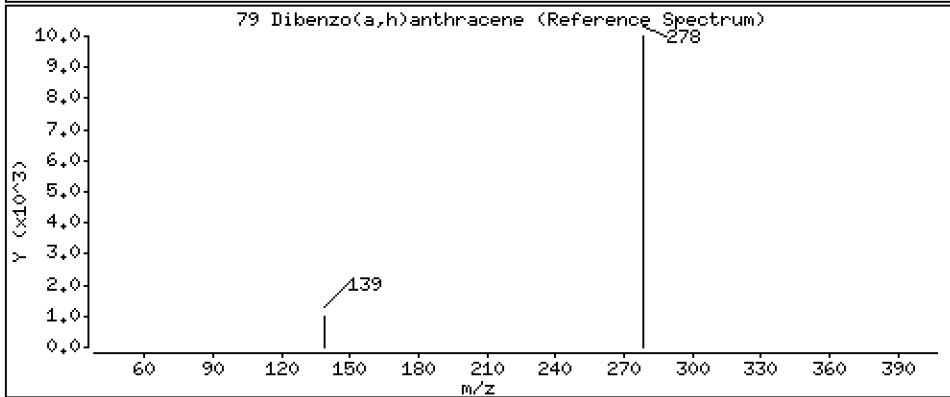
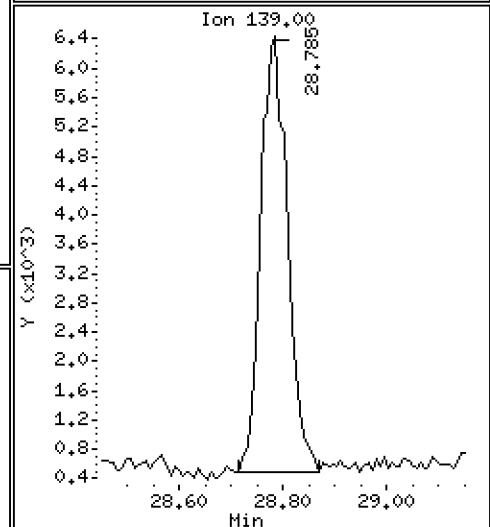
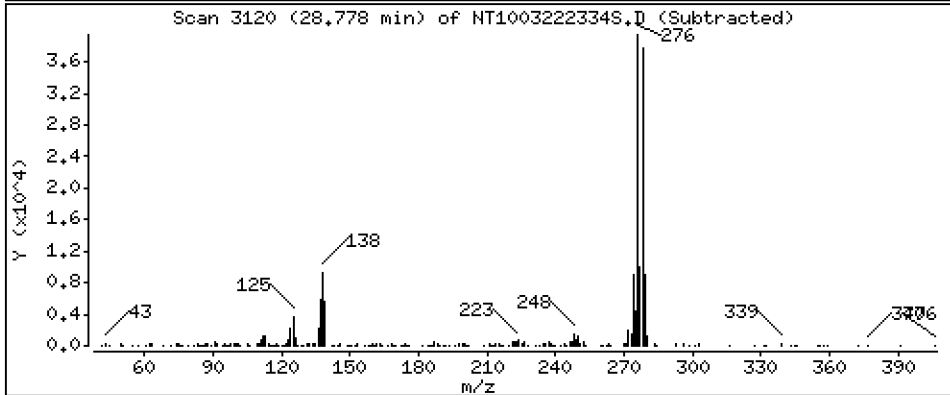
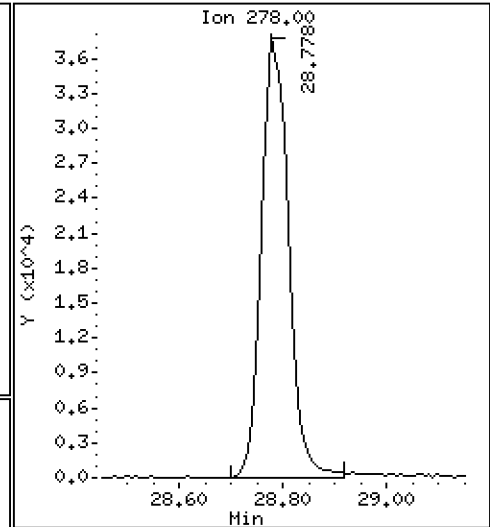
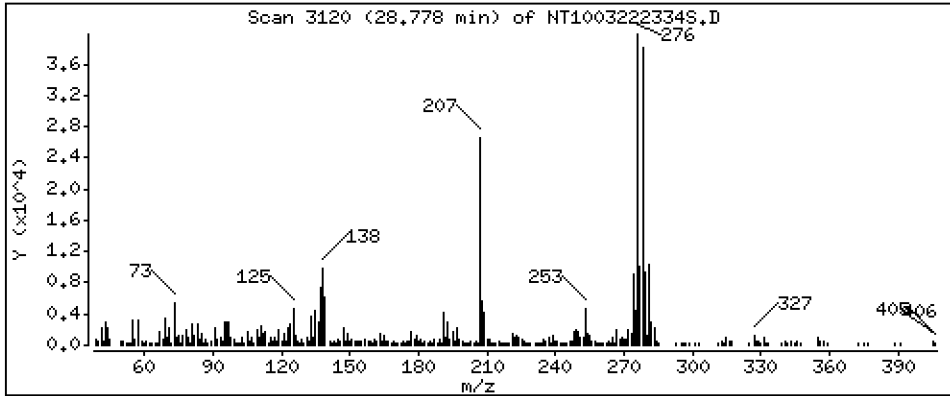
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 0,9084 ug/L



Date : 23-MAR-2023 14:00

Client ID:

Instrument: nt10.i

Sample Info: SEQ-CCVSIH

Volume Injected (uL): 1.0

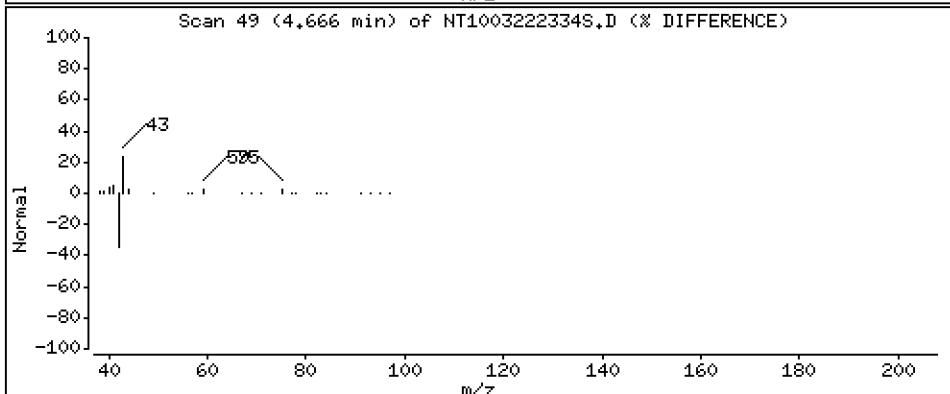
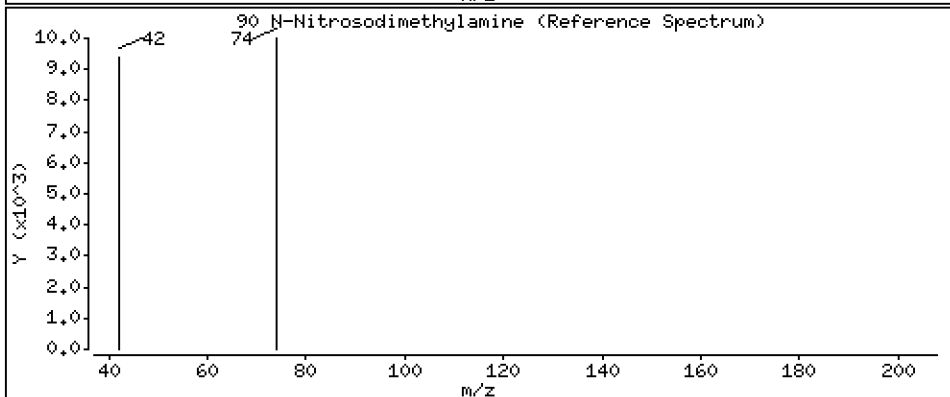
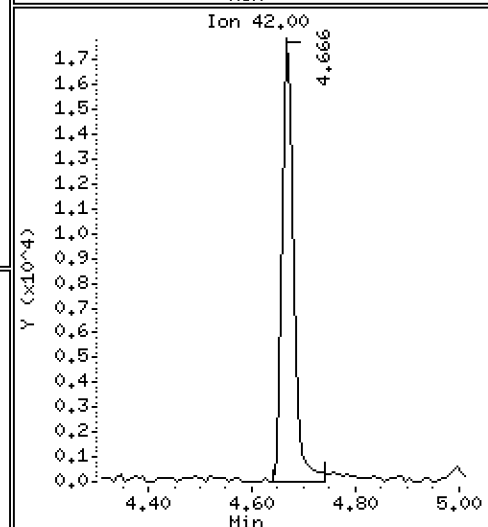
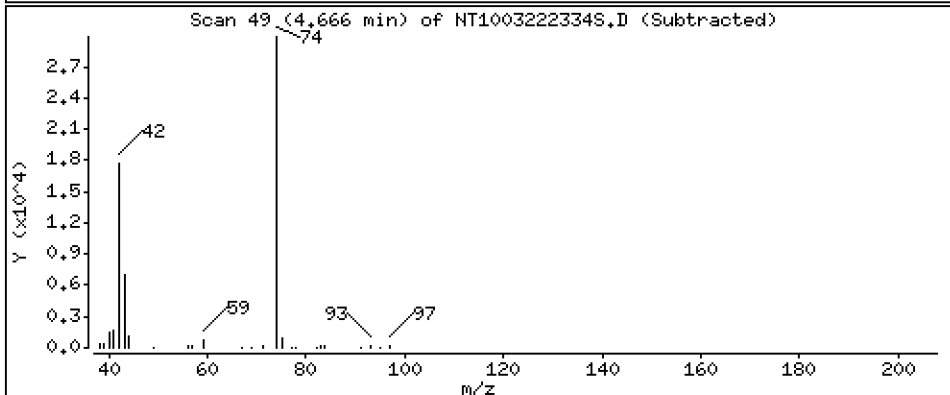
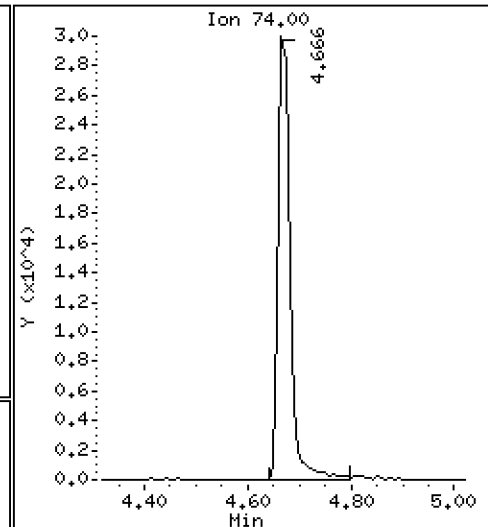
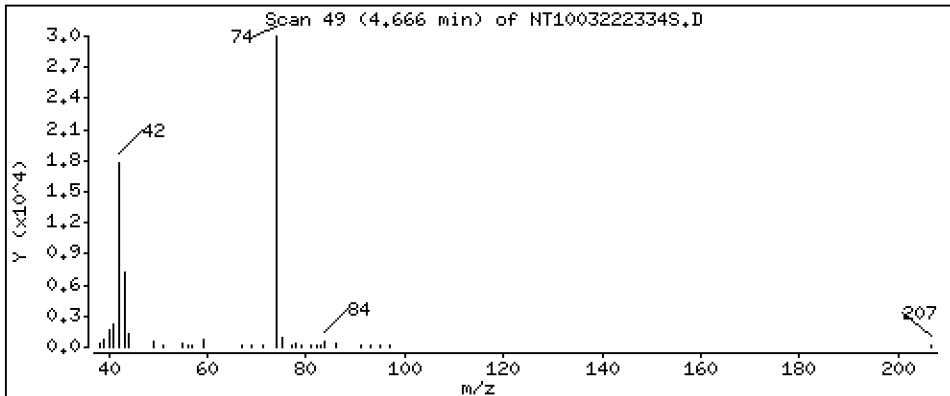
Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25

90 N-Nitrosodimethylamine

Concentration: 2.031 ug/L



ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230322.b\SIM.b\NT1003222334S.D
 Lab Smp Id: SLC0407-CCV1
 Inj Date : 23-MAR-2023 14:00 MS Autotune Date: 16-JAN-2023 17:42
 Operator : JGR Inst ID: nt10.i
 Smp Info : SEQ-CCVSIM
 Misc Info :
 Comment :
 Method : \\target\share\chem3\nt10.i\20230322.b\SIM.b\SIMABN2.m
 Meth Date : 25-Mar-2023 16:11 yev Quant Type: ISTD
 Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D
 Als bottle: 3
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: PSDDA.sub
 Target Version: 4.14
 Processing Host: ORGDATA102

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

| Name | Value | Description |
|---------------|----------|---------------------------------|
| DF | 1.000 | Dilution Factor |
| Vo | 1000.000 | Volume of sample extracted (mL) |
| Vt | 1000.000 | Volume of final extract (uL) |
| Vi | 1.000 | Volume injected (uL) |
| Uf | 1.000 | ng unit correction factor |
| Cpnd Variable | | Local Compound Variable |

| Compounds | QUANT | SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|-------------------------------|-------|-----|--------|----------------|--------|----------|-------------------|--------------|
| | | | | | | | ON-COLUMN (ug/mL) | FINAL (ug/L) |
| \$ 1 2-Fluorophenol | 112 | | 6.859 | 6.856 (0.755) | 57366 | 1.62829 | 1.628 (R) | |
| 3 Phenol | 94 | | 8.473 | 8.471 (0.933) | 49439 | 1.02285 | 1.023 | |
| 7 1,3-Dichlorobenzene | 146 | | 9.022 | 9.020 (0.993) | 47160 | 1.04271 | 1.043 | |
| * 8 1,4-Dichlorobenzene-d4 | 152 | | 9.084 | 9.090 (1.000) | 116179 | 4.00000 | | |
| 9 1,4-Dichlorobenzene | 146 | | 9.115 | 9.121 (1.003) | 45677 | 1.04620 | 1.046 | |
| 11 Benzyl alcohol | 79 | | 9.356 | 9.361 (1.030) | 30445 | 1.08650 | 1.086 | |
| 12 1,2-Dichlorobenzene | 146 | | 9.472 | 9.470 (1.043) | 44346 | 1.03281 | 1.033 | |
| 13 2-Methylphenol | 108 | | 9.589 | 9.586 (1.056) | 37404 | 1.11682 | 1.117 | |
| 15 4-Methylphenol | 108 | | 9.861 | 9.858 (1.085) | 39551 | 1.13647 | 1.136 | |
| 16 N-Nitroso-di-n-propylamine | 70 | | 9.915 | 9.920 (1.091) | 27580 | 1.12060 | 1.121 | |
| 22 2,4-Dimethylphenol | 107 | | 10.901 | 10.906 (0.942) | 72935 | 1.95939 | 1.959 | |
| 24 Benzoic acid | 105 | | 11.036 | 11.033 (0.954) | 82312 | 3.98220 | 3.982 | |
| 26 1,2,4-Trichlorobenzene | 180 | | 11.487 | 11.492 (0.993) | 40381 | 1.07839 | 1.078 | |
| * 27 Naphthalene-d8 | 136 | | 11.572 | 11.577 (1.000) | 430639 | 4.00000 | | |
| 30 Hexachlorobutadiene | 225 | | 11.974 | 11.979 (1.035) | 24819 | 1.09017 | 1.090 | |
| 39 Dimethylphthalate | 163 | | 14.706 | 14.711 (0.967) | 88915 | 1.24962 | 1.250 | |
| * 42 Acenaphthene-d10 | 162 | | 15.201 | 15.206 (1.000) | 225476 | 4.00000 | | |
| 50 Diethylphthalate | 149 | | 16.167 | 16.172 (1.064) | 100413 | 1.36224 | 1.362 | |
| 54 N-Nitrosodiphenylamine | 169 | | 16.553 | 16.558 (0.907) | 63565 | 1.05797 | 1.058 | |
| 57 Hexachlorobenzene | 284 | | 17.626 | 17.631 (0.966) | 31345 | 1.16540 | 1.165 | |

| Compounds | QUANT SIG | RT | EXP RT | REL RT | RESPONSE | CONCENTRATIONS | |
|---------------------------|-----------|--------|--------|---------|----------|----------------------|------------------|
| | | | | | | ON-COLUMN (ug/mL) | FINAL (ug/L) |
| 58 Pentachlorophenol | 266 | 17.990 | 17.995 | (0.986) | 27762 | 1.85025 | 1.850 |
| * 59 Phenanthrene-d10 | 188 | 18.253 | 18.258 | (1.000) | 447813 | 4.00000 | |
| \$ 66 Terphenyl-d14 | 244 | 21.425 | 21.438 | (0.918) | 128698 | 1.86497 | 1.865(R) |
| 67 Butylbenzylphthalate | 149 | 22.369 | 22.375 | (0.958) | 65884 | 1.16867 | 1.169 |
| * 69 Chrysene-d12 | 240 | 23.345 | 23.350 | (1.000) | 423530 | 4.00000 | |
| * 77 Perylene-d12 | 264 | 26.024 | 26.037 | (1.000) | 462101 | 4.00000 | |
| 79 Dibenzo(a,h)anthracene | 278 | 28.777 | 28.798 | (1.106) | 137091 | 0.90842 | 0.9084 |
| 90 N-Nitrosodimethylamine | 74 | 4.665 | 4.670 | (0.514) | 45372 | 2.03056 | 2.031 |

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt10.i
 Lab File ID: NT1003222334S.D
 Lab Smp Id: SLC0407-CCV1
 Analysis Type: SV
 Quant Type: ISTD
 Operator: JGR
 Method File: \\target\share\chem3\nt10.i\20230322.b\SIM.b\SIMABN2.m
 Misc Info:

Calibration Date: 23-MAR-2023
 Calibration Time: 03:52
 Level: LOW
 Sample Type: AIR

Test Mode:
 Use Last Continuing Calibrator.

| COMPOUND | STANDARD | AREA LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|------------|---------|--------|--------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 140507 | 70254 | 281014 | 116179 | -17.31 |
| 27 Naphthalene-d8 | 499190 | 249595 | 998380 | 430639 | -13.73 |
| 42 Acenaphthene-d10 | 250303 | 125152 | 500606 | 225476 | -9.92 |
| 59 Phenanthrene-d10 | 496896 | 248448 | 993792 | 447813 | -9.88 |
| 69 Chrysene-d12 | 465837 | 232919 | 931674 | 423530 | -9.08 |
| 77 Perylene-d12 | 551078 | 275539 | 1102156 | 462101 | -16.15 |

| COMPOUND | STANDARD | RT LIMIT | | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
| | | LOWER | UPPER | | |
| 8 1,4-Dichlorobenze | 9.09 | 8.59 | 9.59 | 9.08 | -0.06 |
| 27 Naphthalene-d8 | 11.58 | 11.08 | 12.08 | 11.57 | -0.05 |
| 42 Acenaphthene-d10 | 15.21 | 14.71 | 15.71 | 15.20 | -0.03 |
| 59 Phenanthrene-d10 | 18.26 | 17.76 | 18.76 | 18.25 | -0.03 |
| 69 Chrysene-d12 | 23.35 | 22.85 | 23.85 | 23.35 | -0.02 |
| 77 Perylene-d12 | 26.04 | 25.54 | 26.54 | 26.02 | -0.05 |

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

REVIEW SUMMARY FOR FILE - NT1003222334S.D

Lab ID: SLC0407-CCV1

nt10.i, 20230322.b\SIM.b\SIMABN2.m, 23-MAR-2023 14:00

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

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

NONE

RRT check based on Ccal File: SIM.b/NT1003222318S.D

On Column LOD for nt10.i, SIM.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

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



ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8270E-SIM

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Sequence: SLC0238

Instrument: NT10

Calibration: GC00049

| Sample Name | Lab Sample ID | Lab File ID | Matrix | Analysis Date/Time |
|-------------------|---------------|---------------|--------|--------------------|
| MS Tune | SLC0238-TUN1 | NT10031501S.D | NA | 03/15/23 20:19 |
| ABN 10.0 | SLC0238-CAL8 | NT10031503S.D | NA | 03/15/23 21:12 |
| ABN 5.0 | SLC0238-CAL7 | NT10031504S.D | NA | 03/15/23 21:50 |
| ABN 2.5 | SLC0238-CAL6 | NT10031505S.D | NA | 03/15/23 22:28 |
| ABN 1.0 | SLC0238-CAL5 | NT10031506S.D | NA | 03/15/23 23:06 |
| ABN 0.5 | SLC0238-CAL4 | NT10031507S.D | NA | 03/15/23 23:44 |
| ABN 0.2 | SLC0238-CAL3 | NT10031508S.D | NA | 03/16/23 00:22 |
| ABN 0.1 | SLC0238-CAL2 | NT10031509S.D | NA | 03/16/23 01:00 |
| ABN 0.05 | SLC0238-CAL1 | NT10031510S.D | NA | 03/16/23 01:38 |
| SCV 5.0 | SLC0238-SCV1 | NT10031511S.D | NA | 03/16/23 02:16 |
| Initial Cal Blank | SLC0238-ICB1 | NT10031512S.D | NA | 03/16/23 02:54 |



ANALYSIS SEQUENCE

SLC0238

Instrument ID: NT10 GCMS Description: Agilent 5975/MS http://bi
Calibration ID: GC00049 GCMS Column ID: L002830
MS EM Level: 1271 EV

| Lab Number | Sample Name | Analysis | Container | Order | STD ID | ISTD ID | Analyzed | File ID | Analyst | Comments |
|--------------|-------------------|----------|-----------|-------|---------|---------|------------------|---------------|---------|----------|
| SLC0238-TUN1 | MS Tune | QC | | 1 | L002618 | | 03/15/2023 20:19 | NT10031501S.D | JGR | |
| SLC0238-CAL8 | ABN 10.0 | QC | | 2 | K011110 | K010831 | 03/15/2023 21:12 | NT10031503S.D | JGR | |
| SLC0238-CAL7 | ABN 5.0 | QC | | 3 | K011109 | K010831 | 03/15/2023 21:50 | NT10031504S.D | JGR | |
| SLC0238-CAL6 | ABN 2.5 | QC | | 4 | K011108 | K010831 | 03/15/2023 22:28 | NT10031505S.D | JGR | |
| SLC0238-CAL5 | ABN 1.0 | QC | | 5 | K011107 | K010831 | 03/15/2023 23:06 | NT10031506S.D | JGR | |
| SLC0238-CAL4 | ABN 0.5 | QC | | 6 | K011106 | K010831 | 03/15/2023 23:44 | NT10031507S.D | JGR | |
| SLC0238-CAL3 | ABN 0.2 | QC | | 7 | K011105 | K010831 | 03/16/2023 00:22 | NT10031508S.D | JGR | |
| SLC0238-CAL2 | ABN 0.1 | QC | | 8 | L002877 | K010831 | 03/16/2023 01:00 | NT10031509S.D | JGR | |
| SLC0238-CAL1 | ABN 0.05 | QC | | 9 | L002878 | K010831 | 03/16/2023 01:38 | NT10031510S.D | JGR | |
| SLC0238-SCV1 | SCV 5.0 | QC | | 10 | K010066 | K010831 | 03/16/2023 02:16 | NT10031511S.D | JGR | |
| SLC0238-ICB1 | Initial Cal Blank | QC | | 11 | K005156 | K010831 | 03/16/2023 02:54 | NT10031512S.D | JGR | |

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230315.b\20230315.b

| Time | Filename | LabID | ClientId | DF | | | | | | | | | | | | | | |
|------|----------|---------------|----------------|----|---|----|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|
| 1 | 2019 | NT10031501S.D | SLC0238-TUN1 | | 1 | NO | ISTDS | FOUND | | | | | | | | | | |
| 2 | 2034 | NT10031502S.D | FULL SCAN ONLY | | 1 | | 9.31 | 193857 | 11.78 | 709633 | 15.39 | 344841 | 18.43 | 635594 | 23.46 | 392013 | 26.19 | 449978 |
| 3 | 2112 | NT10031503S.D | SLC0238-CAL8 | | 1 | | 9.31 | 192425 | 11.78 | 689875 | 15.39 | 341663 | 18.42 | 651934 | 23.45 | 482051 | 26.19 | 502718 |
| 4 | 2150 | NT10031504S.D | SLC0238-CAL7 | | 1 | | 9.30 | 187419 | 11.77 | 682446 | 15.38 | 331603 | 18.42 | 598629 | 23.45 | 389338 | 26.19 | 466441 |
| 5 | 2228 | NT10031505S.D | SLC0238-CAL6 | | 1 | | 9.30 | 173412 | 11.78 | 624286 | 15.38 | 310309 | 18.43 | 554860 | 23.46 | 385144 | 26.19 | 456369 |
| 6 | 2306 | NT10031506S.D | SLC0238-CAL5 | | 1 | | 9.30 | 188081 | 11.77 | 674549 | 15.39 | 328275 | 18.42 | 597140 | 23.45 | 466503 | 26.19 | 518203 |
| 7 | 2344 | NT10031507S.D | SLC0238-CAL4 | | 1 | | 9.30 | 191648 | 11.77 | 679665 | 15.39 | 335786 | 18.42 | 613961 | 23.45 | 464623 | 26.19 | 521317 |
| 8 | 0022 | NT10031508S.D | SLC0238-CAL3 | | 1 | | 9.30 | 188644 | 11.78 | 664117 | 15.38 | 328147 | 18.42 | 603272 | 23.46 | 468991 | 26.18 | 525052 |
| 9 | 0100 | NT10031509S.D | SLC0238-CAL2 | | 1 | | 9.30 | 190985 | 11.77 | 684638 | 15.39 | 328366 | 18.42 | 602202 | 23.45 | 451316 | 26.19 | 517188 |
| 10 | 0138 | NT10031510S.D | SLC0238-CAL1 | | 1 | | 9.30 | 187154 | 11.78 | 654413 | 15.38 | 318969 | 18.42 | 583319 | 23.46 | 440533 | 26.19 | 488759 |
| 11 | 0216 | NT10031511S.D | SLC0238-SCV1 | | 1 | | 9.31 | 166866 | 11.78 | 612104 | 15.39 | 302524 | 18.43 | 553619 | 23.46 | 465428 | 26.19 | 532593 |
| 12 | 0254 | NT10031512S.D | SLC0238-ICB1 | | 1 | | 9.31 | 189475 | 11.77 | 676186 | 15.38 | 328650 | 18.42 | 617605 | 23.45 | 473513 | 26.19 | 534734 |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230315.b\20230315.b

Instrument: nt10.i Date: 15-MAR-2023

| Time | Filename | LabID | DF | Manually Integrated Compounds |
|------|---------------|----------------|----|-------------------------------|
| 2019 | NT10031501S.D | SLC0238-TUN1 | 1 | NO MANUAL INTEGRATION |
| 2034 | NT10031502S.D | FULL SCAN ONLY | 1 | NO MANUAL INTEGRATION |
| 2112 | NT10031503S.D | SLC0238-CAL8 | 1 | NO MANUAL INTEGRATION |
| 2150 | NT10031504S.D | SLC0238-CAL7 | 1 | NO MANUAL INTEGRATION |
| 2228 | NT10031505S.D | SLC0238-CAL6 | 1 | NO MANUAL INTEGRATION |
| 2306 | NT10031506S.D | SLC0238-CAL5 | 1 | NO MANUAL INTEGRATION |
| 2344 | NT10031507S.D | SLC0238-CAL4 | 1 | NO MANUAL INTEGRATION |
| 0022 | NT10031508S.D | SLC0238-CAL3 | 1 | Benzoic acid, |
| 0100 | NT10031509S.D | SLC0238-CAL2 | 1 | Pentachlorophenol, |
| 0138 | NT10031510S.D | SLC0238-CAL1 | 1 | Pentachlorophenol, |
| 0216 | NT10031511S.D | SLC0238-SCV1 | 1 | Terphenyl-d14, |
| 0254 | NT10031512S.D | SLC0238-ICB1 | 1 | NO MANUAL INTEGRATION |

Security Status Report

Date: 16-Mar-2023 14:47

| | | |
|---------------|-------------|------------------------|
| NT10031501S.D | Data Locked | van, 16-Mar-2023 14:47 |
| NT10031502S.D | Data Locked | van, 16-Mar-2023 14:47 |
| NT10031503S.D | Data Locked | van, 16-Mar-2023 14:47 |
| NT10031504S.D | Data Locked | van, 16-Mar-2023 14:47 |
| NT10031505S.D | Data Locked | van, 16-Mar-2023 14:47 |
| NT10031506S.D | Data Locked | van, 16-Mar-2023 14:47 |
| NT10031507S.D | Data Locked | van, 16-Mar-2023 14:47 |
| NT10031508S.D | Data Locked | van, 16-Mar-2023 14:47 |
| NT10031509S.D | Data Locked | van, 16-Mar-2023 14:47 |
| NT10031510S.D | Data Locked | van, 16-Mar-2023 14:47 |
| NT10031511S.D | Data Locked | van, 16-Mar-2023 14:47 |
| NT10031512S.D | Data Locked | van, 16-Mar-2023 14:47 |



ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8270E-SIM

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Sequence: SLC0407

Instrument: NT10

Calibration: GC00049

| Sample Name | Lab Sample ID | Lab File ID | Matrix | Analysis Date/Time |
|-------------------|---------------|-----------------|--------|--------------------|
| ABN 1 | SLC0407-ICV1 | NT1003222303S.D | NA | 03/22/23 18:20 |
| Blank | BLC0442-BLK2 | NT1003222306S.D | Solid | 03/22/23 20:16 |
| LCS | BLC0442-BS2 | NT1003222307S.D | Solid | 03/22/23 20:54 |
| LCS Dup | BLC0442-BSD2 | NT1003222308S.D | Solid | 03/22/23 21:32 |
| Reference | BLC0442-SRM2 | NT1003222309S.D | Solid | 03/22/23 22:10 |
| ZZZZZ | 23A0179-01RE1 | NT1003222310S.D | Solid | 03/22/23 22:49 |
| ZZZZZ | 23A0179-02RE1 | NT1003222311S.D | Solid | 03/22/23 23:27 |
| ZZZZZ | 23A0179-03RE1 | NT1003222312S.D | Solid | 03/23/23 00:05 |
| ZZZZZ | 23A0179-04RE1 | NT1003222313S.D | Solid | 03/23/23 00:43 |
| ZZZZZ | 23A0179-05RE1 | NT1003222314S.D | Solid | 03/23/23 01:21 |
| ZZZZZ | 23A0179-06RE1 | NT1003222315S.D | Solid | 03/23/23 01:59 |
| ZZZZZ | 23A0179-07RE1 | NT1003222316S.D | Solid | 03/23/23 02:37 |
| ABN 1 | SLC0407-ICV2 | NT1003222318S.D | NA | 03/23/23 03:52 |
| Instrument Blank | SLC0407-IBL1 | NT1003222321S.D | NA | 03/23/23 05:46 |
| ZZZZZ | 23A0179-08RE1 | NT1003222324S.D | Solid | 03/23/23 07:39 |
| ZZZZZ | 23A0179-09RE1 | NT1003222325S.D | Solid | 03/23/23 08:17 |
| ZZZZZ | 23A0179-10RE1 | NT1003222326S.D | Solid | 03/23/23 08:55 |
| ZZZZZ | 23A0179-11RE1 | NT1003222327S.D | Solid | 03/23/23 09:33 |
| ZZZZZ | 23A0179-12RE1 | NT1003222328S.D | Solid | 03/23/23 10:11 |
| LDW23-SC1164 | 23A0180-01RE1 | NT1003222329S.D | Solid | 03/23/23 10:49 |
| LDW23-SC1164-FD | 23A0180-02RE1 | NT1003222330S.D | Solid | 03/23/23 11:27 |
| LDW23-SC1158 | 23A0180-03RE1 | NT1003222331S.D | Solid | 03/23/23 12:05 |
| LDW23-SC1151 | 23A0180-04RE1 | NT1003222332S.D | Solid | 03/23/23 12:44 |
| Calibration Check | SLC0407-CCV1 | NT1003222334S.D | NA | 03/23/23 14:00 |



ANALYSIS SEQUENCE

SLC0407

Instrument: NT10
Calibration ID: GC00049

Printed: 3/25/2023 4:56:28PM

| Lab Number | Analysis | Container | Order | Position | STD ID | ISTD ID | Client | Comments |
|---------------|--------------------------|-----------|-------|----------|---------|---------|-----------------|----------------------------------|
| SLC0407-ICV1 | QC | | 1 | | K011107 | K010831 | | |
| BLC0442-BLK2 | QC | | 2 | | | K010831 | | |
| BLC0442-BS2 | QC | | 3 | | | K010831 | | |
| BLC0442-BSD2 | QC | | 4 | | | K010831 | | |
| BLC0442-SRM2 | QC | | 5 | | | K010831 | | |
| 23A0179-01RE1 | 8270E-SIM Dual Scan SVOC | A 05 | 6 | | | K010831 | Anchor QEA, LLC | From BLA0557 by CTO on 21-Mar-20 |
| 23A0179-02RE1 | 8270E-SIM Dual Scan SVOC | A 05 | 7 | | | K010831 | Anchor QEA, LLC | From BLA0557 by CTO on 21-Mar-20 |
| 23A0179-03RE1 | 8270E-SIM Dual Scan SVOC | A 05 | 8 | | | K010831 | Anchor QEA, LLC | From BLA0557 by CTO on 21-Mar-20 |
| 23A0179-04RE1 | 8270E-SIM Dual Scan SVOC | A 05 | 9 | | | K010831 | Anchor QEA, LLC | From BLA0557 by CTO on 21-Mar-20 |
| 23A0179-05RE1 | 8270E-SIM Dual Scan SVOC | A 05 | 10 | | | K010831 | Anchor QEA, LLC | From BLA0557 by CTO on 21-Mar-20 |
| 23A0179-06RE1 | 8270E-SIM Dual Scan SVOC | A 05 | 11 | | | K010831 | Anchor QEA, LLC | From BLA0557 by CTO on 21-Mar-20 |
| 23A0179-07RE1 | 8270E-SIM Dual Scan SVOC | A 05 | 12 | | | K010831 | Anchor QEA, LLC | From BLA0557 by CTO on 21-Mar-20 |
| SLC0407-ICV2 | QC | | 13 | | K011107 | K010831 | | |
| SLC0407-IBL1 | QC | | 14 | | K005156 | K010831 | | |
| BLC0442-MS2 | QC | | 15 | | | K010831 | | |
| BLC0442-MSD2 | QC | | 16 | | | K010831 | | |
| 23A0179-08RE1 | 8270E-SIM Dual Scan SVOC | A 05 | 17 | | | K010831 | Anchor QEA, LLC | From BLA0557 by CTO on 21-Mar-20 |
| 23A0179-09RE1 | 8270E-SIM Dual Scan SVOC | A 05 | 18 | | | K010831 | Anchor QEA, LLC | From BLA0557 by CTO on 21-Mar-20 |
| 23A0179-10RE1 | 8270E-SIM Dual Scan SVOC | A 05 | 19 | | | K010831 | Anchor QEA, LLC | From BLA0557 by CTO on 21-Mar-20 |
| 23A0179-11RE1 | 8270E-SIM Dual Scan SVOC | A 05 | 20 | | | K010831 | Anchor QEA, LLC | From BLA0557 by CTO on 21-Mar-20 |
| 23A0179-12RE1 | 8270E-SIM Dual Scan SVOC | A 05 | 21 | | | K010831 | Anchor QEA, LLC | From BLA0557 by CTO on 21-Mar-20 |

Samples Loaded By _____ Date _____

Data Processed By _____ Date _____

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230322.b\SIM.b

| Time | Filename | LabID | ClientId | DF | | | | | | | | | |
|------|----------|-----------------|--------------|----|---|--|------|---------------|---------------|---------------|---------------|---------------|--------|
| 1 | 1820 | NT1003222303S.D | SLC0407-ICV1 | | 1 | | 9.09 | 135191 11.57 | 487226 15.20 | 246588 18.25 | 479352 23.34 | 439791 26.03 | 505700 |
| 2 | 1859 | NT1003222304S.D | SEQ-LCV200 | | 1 | | 9.09 | 159020 11.57 | 550053 15.19 | 274703 18.25 | 513021 23.34 | 466881 26.03 | 527507 |
| 3 | 1937 | NT1003222305S.D | SEQ-LCV100 | | 1 | | 9.09 | 144866 11.57 | 500650 15.19 | 248801 18.25 | 469361 23.34 | 412326 26.02 | 473527 |
| 4 | 2016 | NT1003222306S.D | BLC0442-BLK2 | | 1 | | 9.09 | 184770 11.57 | 645327 15.20 | 320820 18.25 | 609921 23.34 | 528163 26.02 | 592176 |
| 5 | 2054 | NT1003222307S.D | BLC0442-BS2 | | 1 | | 9.08 | 174597 11.58 | 639634 15.20 | 322589 18.25 | 633150 23.34 | 572648 26.03 | 635593 |
| 6 | 2132 | NT1003222308S.D | BLC0442-BSD2 | | 1 | | 9.09 | 168404 11.58 | 617172 15.20 | 314236 18.25 | 622069 23.34 | 538810 26.03 | 608756 |
| 7 | 2210 | NT1003222309S.D | BLC0442-SRM2 | | 1 | | 9.08 | 194361 11.57 | 688684 15.20 | 340192 18.25 | 669550 23.34 | 590805 26.02 | 678670 |
| 8 | 2249 | NT1003222310S.D | 23A0179-01 | | 1 | | 9.09 | 182866 11.58 | 659488 15.20 | 329944 18.25 | 685590 23.35 | 633755 26.04 | 747858 |
| 9 | 2327 | NT1003222311S.D | 23A0179-02 | | 1 | | 9.09 | 200759 11.58 | 720656 15.20 | 343861 18.26 | 729888 23.35 | 650043 26.05 | 755158 |
| 10 | 0005 | NT1003222312S.D | 23A0179-03 | | 1 | | 9.09 | 193127 11.58 | 694580 15.20 | 337082 18.26 | 714334 23.35 | 642901 26.04 | 755383 |
| 11 | 0043 | NT1003222313S.D | 23A0179-04 | | 1 | | 9.09 | 182142 11.58 | 673218 15.20 | 326672 18.26 | 703974 23.36 | 629362 26.05 | 740470 |
| 12 | 0121 | NT1003222314S.D | 23A0179-05 | | 1 | | 9.09 | 190341 11.58 | 679303 15.20 | 330974 18.26 | 699078 23.36 | 628385 26.05 | 737138 |
| 13 | 0159 | NT1003222315S.D | 23A0179-06 | | 1 | | 9.09 | 186026 11.58 | 675158 15.21 | 332455 18.26 | 709699 23.36 | 645854 26.05 | 745650 |
| 14 | 0237 | NT1003222316S.D | 23A0179-07 | | 1 | | 9.09 | 179128 11.58 | 636177 15.21 | 313559 18.26 | 658568 23.36 | 582665 26.05 | 696672 |
| 15 | 0315 | NT1003222317S.D | SEQ-CCVFULL | | 1 | | 9.09 | 151791 11.58 | 551037 15.21 | 273343 18.26 | 563483 23.36 | 522164 26.05 | 615484 |
| 16 | 0352 | NT1003222318S.D | SLC0407-ICV2 | | 1 | | 9.09 | 140507 11.58 | 499190 15.21 | 250303 18.26 | 496896 23.35 | 465837 26.04 | 551078 |
| 17 | 0430 | NT1003222319S.D | SEQ-LCV200 | | 1 | | 9.08 | 151557 11.58 | 530339 15.20 | 264545 18.26 | 511794 23.35 | 472783 26.05 | 558622 |
| 18 | 0508 | NT1003222320S.D | SEQ-LCV100 | | 1 | | 9.08 | 134658 11.58 | 471414 15.20 | 232569 18.26 | 446973 23.35 | 418273 26.05 | 488417 |
| 19 | 0546 | NT1003222321S.D | SLC0407-IBL1 | | 1 | | 9.08 | 178871 11.58 | 638364 15.20 | 315474 18.26 | 604250 23.35 | 549439 26.04 | 633519 |
| 20 | 0624 | NT1003222322S.D | BLC0442-MS2 | | 1 | | 9.09 | 157202 11.58 | 573631 15.21 | 295406 18.26 | 615665 23.36 | 557974 26.05 | 678005 |

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230322.b\SIM.b

| Time | Filename | LabID | ClientId | DF | | | | | | | | | |
|------|----------|-----------------|--------------|----|---|--|------|---------------|---------------|---------------|---------------|---------------|--------|
| 21 | 0701 | NT1003222323S.D | BLC0442-MSD2 | | 1 | | 9.09 | 161357 11.58 | 580639 15.21 | 300651 18.26 | 630227 23.36 | 553948 26.05 | 656455 |
| 22 | 0739 | NT1003222324S.D | 23A0179-08 | | 1 | | 9.09 | 165148 11.58 | 596405 15.21 | 294954 18.26 | 629413 23.36 | 584289 26.05 | 668897 |
| 23 | 0817 | NT1003222325S.D | 23A0179-09 | | 1 | | 9.09 | 165680 11.58 | 598211 15.21 | 302560 18.26 | 642018 23.36 | 603401 26.05 | 670397 |
| 24 | 0855 | NT1003222326S.D | 23A0179-10 | | 1 | | 9.09 | 164795 11.58 | 598663 15.20 | 294535 18.26 | 639886 23.36 | 606398 26.06 | 664262 |
| 25 | 0933 | NT1003222327S.D | 23A0179-11 | | 1 | | 9.09 | 175820 11.58 | 624863 15.21 | 307249 18.26 | 652187 23.37 | 603648 26.06 | 663172 |
| 26 | 1011 | NT1003222328S.D | 23A0179-12 | | 1 | | 9.09 | 177351 11.59 | 642224 15.21 | 313530 18.27 | 665755 23.37 | 623237 26.07 | 675873 |
| 27 | 1049 | NT1003222329S.D | 23A0180-01 | | 1 | | 9.09 | 162405 11.59 | 584903 15.21 | 286668 18.27 | 630971 23.37 | 572641 26.08 | 618527 |
| 28 | 1127 | NT1003222330S.D | 23A0180-02 | | 1 | | 9.09 | 164380 11.59 | 592145 15.21 | 287707 18.27 | 626634 23.37 | 550041 26.08 | 591581 |
| 29 | 1205 | NT1003222331S.D | 23A0180-03 | | 1 | | 9.09 | 159142 11.58 | 578341 15.20 | 281002 18.26 | 611326 23.36 | 556524 26.05 | 602291 |
| 30 | 1244 | NT1003222332S.D | 23A0180-04 | | 1 | | 9.09 | 145720 11.58 | 534791 15.20 | 261557 18.26 | 577037 23.36 | 540918 26.04 | 578351 |
| 31 | 1322 | NT1003222333S.D | SEQ-CCVFULL | | 1 | | 9.09 | 116166 11.57 | 422030 15.20 | 231219 18.25 | 458729 23.35 | 445925 26.02 | 483312 |
| 32 | 1400 | NT1003222334S.D | SLC0407-CCV1 | | 1 | | 9.08 | 116179 11.57 | 430639 15.20 | 225476 18.25 | 447813 23.35 | 423530 26.02 | 462101 |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230322.b\SIM.b

ARI Job No.: SLC0 Method: SIM.b\SIMABN2.m Instrument: nt10.i Date: 22-MAR-2023

| Time | Filename | LabID | ClientId | DF | Manually Integrated Compounds |
|------|-----------------|--------------|----------|----|--|
| 1820 | NT1003222303S.D | SLC0407-ICV1 | | 1 | 1,4-Dichlorobenzene, |
| 1859 | NT1003222304S.D | SEQ-LCV200 | | 1 | NO MANUAL INTEGRATION |
| 1937 | NT1003222305S.D | SEQ-LCV100 | | 1 | NO MANUAL INTEGRATION |
| 2016 | NT1003222306S.D | BLC0442-BLK2 | | 1 | NO MANUAL INTEGRATION |
| 2054 | NT1003222307S.D | BLC0442-BS2 | | 1 | NO MANUAL INTEGRATION |
| 2132 | NT1003222308S.D | BLC0442-BSD2 | | 1 | NO MANUAL INTEGRATION |
| 2210 | NT1003222309S.D | BLC0442-SRM2 | | 1 | NO MANUAL INTEGRATION |
| 2249 | NT1003222310S.D | 23A0179-01 | | 1 | 1,4-Dichlorobenzene, Benzyl alcohol, Dimethylphthalate, Pentachlorophenol, |
| 2327 | NT1003222311S.D | 23A0179-02 | | 1 | 1,4-Dichlorobenzene, Benzyl alcohol, Dimethylphthalate, Pentachlorophenol, |
| 0005 | NT1003222312S.D | 23A0179-03 | | 1 | 1,4-Dichlorobenzene, Benzyl alcohol, Pentachlorophenol, |
| 0043 | NT1003222313S.D | 23A0179-04 | | 1 | 1,4-Dichlorobenzene, Benzyl alcohol, |
| 0121 | NT1003222314S.D | 23A0179-05 | | 1 | Benzyl alcohol, Dimethylphthalate, Pentachlorophenol, |
| 0159 | NT1003222315S.D | 23A0179-06 | | 1 | 1,4-Dichlorobenzene, Benzyl alcohol, Dimethylphthalate, Pentachlorophenol, |
| 0237 | NT1003222316S.D | 23A0179-07 | | 1 | Benzyl alcohol, |
| 0315 | NT1003222317S.D | SEQ-CCVFULL | | 1 | NO MANUAL INTEGRATION |
| 0352 | NT1003222318S.D | SLC0407-ICV2 | | 1 | NO MANUAL INTEGRATION |
| 0430 | NT1003222319S.D | SEQ-LCV200 | | 1 | NO MANUAL INTEGRATION |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230322.b\SIM.b

| Time | Filename | LabID | ClientId | DF | Manually Integrated Compounds |
|------|-----------------|--------------|----------|----|--|
| 0508 | NT1003222320S.D | SEQ-LCV100 | | 1 | NO MANUAL INTEGRATION |
| 0546 | NT1003222321S.D | SLC0407-IBL1 | | 1 | Phenol, |
| 0624 | NT1003222322S.D | BLC0442-MS2 | | 1 | NO MANUAL INTEGRATION |
| 0701 | NT1003222323S.D | BLC0442-MSD2 | | 1 | NO MANUAL INTEGRATION |
| 0739 | NT1003222324S.D | 23A0179-08 | | 1 | 1,4-Dichlorobenzene, Benzyl alcohol, Dimethylphthalate, Pentachlorophenol, |
| 0817 | NT1003222325S.D | 23A0179-09 | | 1 | 1,4-Dichlorobenzene, Dimethylphthalate, Pentachlorophenol, |
| 0855 | NT1003222326S.D | 23A0179-10 | | 1 | Benzyl alcohol, Dimethylphthalate, |
| 0933 | NT1003222327S.D | 23A0179-11 | | 1 | 1,4-Dichlorobenzene, Dimethylphthalate, |
| 1011 | NT1003222328S.D | 23A0179-12 | | 1 | 1,4-Dichlorobenzene, Benzyl alcohol, |
| 1049 | NT1003222329S.D | 23A0180-01 | | 1 | 1,4-Dichlorobenzene, Benzyl alcohol, Benzoic acid, Dimethylphthalate, |
| 1127 | NT1003222330S.D | 23A0180-02 | | 1 | 1,4-Dichlorobenzene, Benzyl alcohol, Benzoic acid, Dimethylphthalate, |
| 1205 | NT1003222331S.D | 23A0180-03 | | 1 | 1,4-Dichlorobenzene, Benzyl alcohol, 2,4-Dimethylphenol, Benzoic acid, Dimethylphthalate, Pentachlorophenol, |
| 1244 | NT1003222332S.D | 23A0180-04 | | 1 | 1,4-Dichlorobenzene, Benzyl alcohol, Benzoic acid, Dimethylphthalate, Pentachlorophenol, |
| 1322 | NT1003222333S.D | SEQ-CCVFULL | | 1 | NO MANUAL INTEGRATION |
| 1400 | NT1003222334S.D | SLC0407-CCV1 | | 1 | NO MANUAL INTEGRATION |

Security Status Report

Date: 25-Mar-2023 16:17

| | | |
|-----------------|-------------|----------|
| NT1003222303S.D | Data Locked | yev, 25- |
| NT1003222304S.D | Data Locked | yev, 25- |
| NT1003222305S.D | Data Locked | yev, 25- |
| NT1003222306S.D | Data Locked | yev, 25- |
| NT1003222307S.D | Data Locked | yev, 25- |
| NT1003222308S.D | Data Locked | yev, 25- |
| NT1003222309S.D | Data Locked | yev, 25- |
| NT1003222310S.D | Data Locked | yev, 25- |
| NT1003222311S.D | Data Locked | yev, 25- |
| NT1003222312S.D | Data Locked | yev, 25- |
| NT1003222313S.D | Data Locked | yev, 25- |
| NT1003222314S.D | Data Locked | yev, 25- |
| NT1003222315S.D | Data Locked | yev, 25- |
| NT1003222316S.D | Data Locked | yev, 25- |
| NT1003222317S.D | Data Locked | yev, 25- |
| NT1003222318S.D | Data Locked | yev, 25- |
| NT1003222319S.D | Data Locked | yev, 25- |
| NT1003222320S.D | Data Locked | yev, 25- |
| NT1003222321S.D | Data Locked | yev, 25- |
| NT1003222322S.D | Data Locked | yev, 25- |
| NT1003222323S.D | Data Locked | yev, 25- |
| NT1003222324S.D | Data Locked | yev, 25- |
| NT1003222325S.D | Data Locked | yev, 25- |
| NT1003222326S.D | Data Locked | yev, 25- |
| NT1003222327S.D | Data Locked | yev, 25- |
| NT1003222328S.D | Data Locked | yev, 25- |
| NT1003222329S.D | Data Locked | yev, 25- |
| NT1003222330S.D | Data Locked | yev, 25- |
| NT1003222331S.D | Data Locked | yev, 25- |
| NT1003222332S.D | Data Locked | yev, 25- |
| NT1003222333S.D | Data Locked | yev, 25- |
| NT1003222334S.D | Data Locked | yev, 25- |



SURROGATE RECOVERY AND RT SUMMARY
EPA 8270E-SIM

| | | | |
|--------------|----------------------------------|-------------------|------------------------|
| Laboratory: | <u>Analytical Resources, LLC</u> | SDG/WO: | <u>23A0180</u> |
| Client: | <u>Anchor OEA, LLC</u> | Project: | <u>AOC5 MR Phase 1</u> |
| Sequence: | <u>SLC0238</u> | Instrument: | <u>NT10</u> |
| Calibration: | <u>GC00049</u> | Calibration Date: | <u>03/16/2023</u> |

| Surrogate Compound | Spike Level ug/mL | % Recovery | Recovery Limits | RT | Calibration Mean RT | RT Diff | RT Diff Limit | Q |
|-----------------------------|-------------------|----------------------------|-----------------|--------|--------------------------|---------|---------------|---|
| SLC0238-SCV1 (Solid) | | Lab File ID: NT10031511S.D | | | Analyzed: 03/16/23 02:16 | | | |
| 2-Fluorophenol | 7.5000 | | 0 - 200 | | 7.07175 | -7.0718 | N/A | |
| p-Terphenyl-d14 | 5.0000 | 0.0308 | 0 - 200 | 21.543 | 21.54237 | 0.0006 | N/A | |
| SLC0238-ICB1 (Solid) | | Lab File ID: NT10031512S.D | | | Analyzed: 03/16/23 02:54 | | | |
| 2-Fluorophenol | 7.5000 | 91.0 | 27 - 120 | 7.072 | 7.07175 | 0.0003 | N/A | |
| p-Terphenyl-d14 | 5.0000 | 88.4 | 37 - 120 | 21.542 | 21.54237 | -0.0004 | N/A | |



SURROGATE RECOVERY AND RT SUMMARY
EPA 8270E-SIM

Laboratory: Analytical Resources, LLC
 Client: Anchor QEA, LLC
 Sequence: SLC0407
 Calibration: GC00049

SDG/WO: 23A0180
 Project: AOC5 MR Phase 1
 Instrument: NT10
 Calibration Date: 03/16/2023

| Surrogate Compound | Spike Level ug/mL | % Recovery | Recovery Limits | RT | Calibration Mean RT | RT Diff | RT Diff Limit | Q |
|--|-------------------|------------|-----------------|--------|---------------------|---------|---------------|---|
| SLC0407-ICV1 (Solid) Lab File ID: NT1003222303S.D Analyzed: 03/22/23 18:20 | | | | | | | | |
| 2-Fluorophenol | 1.5000 | 102 | 80 - 120 | 6.856 | 7.07175 | -0.2158 | N/A | |
| p-Terphenyl-d14 | 1.0000 | 97.9 | 80 - 120 | 21.422 | 21.54237 | -0.1204 | N/A | |
| BLC0442-BLK2 (Solid) Lab File ID: NT1003222306S.D Analyzed: 03/22/23 20:16 | | | | | | | | |
| 2-Fluorophenol | 750.00 | 70.8 | 27 - 120 | 6.864 | 7.07175 | -0.2078 | N/A | |
| p-Terphenyl-d14 | 500.00 | 84.1 | 37 - 120 | 21.422 | 21.54237 | -0.1204 | N/A | |
| BLC0442-BS2 (Solid) Lab File ID: NT1003222307S.D Analyzed: 03/22/23 20:54 | | | | | | | | |
| 2-Fluorophenol | 750.00 | 78.0 | 27 - 120 | 6.864 | 7.07175 | -0.2078 | N/A | |
| p-Terphenyl-d14 | 500.00 | 88.9 | 37 - 120 | 21.422 | 21.54237 | -0.1204 | N/A | |
| BLC0442-BSD2 (Solid) Lab File ID: NT1003222308S.D Analyzed: 03/22/23 21:32 | | | | | | | | |
| 2-Fluorophenol | 750.00 | 81.7 | 27 - 120 | 6.864 | 7.07175 | -0.2078 | N/A | |
| p-Terphenyl-d14 | 500.00 | 94.1 | 37 - 120 | 21.422 | 21.54237 | -0.1204 | N/A | |
| BLC0442-SRM2 (Solid) Lab File ID: NT1003222309S.D Analyzed: 03/22/23 22:10 | | | | | | | | |
| 2-Fluorophenol | 7500.0 | 77.3 | 27 - 120 | 6.864 | 7.07175 | -0.2078 | N/A | |
| p-Terphenyl-d14 | 5000.0 | 92.0 | 37 - 120 | 21.422 | 21.54237 | -0.1204 | N/A | |
| SLC0407-ICV2 (Solid) Lab File ID: NT1003222318S.D Analyzed: 03/23/23 03:52 | | | | | | | | |
| 2-Fluorophenol | 1.5000 | 105 | 80 - 120 | 6.856 | 7.07175 | -0.2158 | N/A | |
| p-Terphenyl-d14 | 1.0000 | 102 | 80 - 120 | 21.438 | 21.54237 | -0.1044 | N/A | |
| SLC0407-IBL1 (Solid) Lab File ID: NT1003222321S.D Analyzed: 03/23/23 05:46 | | | | | | | | |
| 2-Fluorophenol | 7.5000 | 72.1 | 27 - 120 | 6.864 | 7.07175 | -0.2078 | N/A | |
| p-Terphenyl-d14 | 5.0000 | 82.7 | 37 - 120 | 21.43 | 21.54237 | -0.1124 | N/A | |
| 23A0180-01RE1 (Solid) Lab File ID: NT1003222329S.D Analyzed: 03/23/23 10:49 | | | | | | | | |
| 2-Fluorophenol | 746.18 | 74.4 | 27 - 120 | 6.872 | 7.07175 | -0.1998 | N/A | |
| p-Terphenyl-d14 | 497.46 | 112 | 37 - 120 | 21.453 | 21.54237 | -0.0894 | N/A | |
| 23A0180-02RE1 (Solid) Lab File ID: NT1003222330S.D Analyzed: 03/23/23 11:27 | | | | | | | | |
| 2-Fluorophenol | 745.04 | 74.7 | 27 - 120 | 6.871 | 7.07175 | -0.2007 | N/A | |
| p-Terphenyl-d14 | 496.69 | 113 | 37 - 120 | 21.461 | 21.54237 | -0.0814 | N/A | |



SURROGATE RECOVERY AND RT SUMMARY
EPA 8270E-SIM

Laboratory: Analytical Resources, LLC SDG/WO: 23A0180
 Client: Anchor QEA, LLC Project: AOC5 MR Phase 1
 Sequence: SLC0407 Instrument: NT10
 Calibration: GC00049 Calibration Date: 03/16/2023

| Surrogate Compound | Spike Level ug/kg dry | % Recovery | Recovery Limits | RT | Calibration Mean RT | RT Diff | RT Diff Limit | Q |
|------------------------------|-----------------------|------------|------------------------------|--------|---------------------|--------------------------|---------------|---|
| 23A0180-03RE1 (Solid) | | | Lab File ID: NT1003222331S.D | | | Analyzed: 03/23/23 12:05 | | |
| 2-Fluorophenol | 721.51 | 75.4 | 27 - 120 | 6.872 | 7.07175 | -0.1998 | N/A | |
| p-Terphenyl-d14 | 481.00 | 115 | 37 - 120 | 21.438 | 21.54237 | -0.1044 | N/A | |
| 23A0180-04RE1 (Solid) | | | Lab File ID: NT1003222332S.D | | | Analyzed: 03/23/23 12:44 | | |
| 2-Fluorophenol | 745.21 | 78.7 | 27 - 120 | 6.871 | 7.07175 | -0.2007 | N/A | |
| p-Terphenyl-d14 | 496.80 | 114 | 37 - 120 | 21.437 | 21.54237 | -0.1054 | N/A | |
| SLC0407-CCV1 (Solid) | | | Lab File ID: NT1003222334S.D | | | Analyzed: 03/23/23 14:00 | | |
| 2-Fluorophenol | 1.5000 | 109 | 50 - 150 | 6.859 | 7.07175 | -0.2128 | N/A | |
| p-Terphenyl-d14 | 1.0000 | 186 | 50 - 150 | 21.425 | 21.54237 | -0.1174 | N/A | * |



INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270E-SIM

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Sequence: SLC0238

Instrument: NT10

Calibration: GC00049

| Internal Standard | Response | RT | Reference Response | Reference RT | Area % | Area % Limits | RT Diff | RT Diff Limit | Q |
|---|----------|---------|----------------------------|--------------|--------|--------------------------|---------|---------------|---|
| Secondary Cal Check (SLC0238-SCV1) | | (Solid) | Lab File ID: NT10031511S.D | | | Analyzed: 03/16/23 02:16 | | | |
| 1,4-Dichlorobenzene-d4 | 166866 | 9.306 | 188081 | 9.298 | 89 | 50 - 200 | 0.008 | +/-0.50 | |
| Naphthalene-d8 | 612104 | 11.775 | 674549 | 11.774 | 91 | 50 - 200 | 0.001 | +/-0.50 | |
| Acenaphthene-d10 | 302524 | 15.388 | 328275 | 15.387 | 92 | 50 - 200 | 0.001 | +/-0.50 | |
| Phenanthrene-d10 | 553619 | 18.425 | 597140 | 18.424 | 93 | 50 - 200 | 0.001 | +/-0.50 | |
| Chrysene-d12 | 465428 | 23.455 | 466503 | 23.454 | 100 | 50 - 200 | 0.001 | +/-0.50 | |
| Perylene-d12 | 532593 | 26.188 | 518203 | 26.187 | 103 | 50 - 200 | 0.001 | +/-0.50 | |
| Initial Cal Blank (SLC0238-ICB1) | | (Solid) | Lab File ID: NT10031512S.D | | | Analyzed: 03/16/23 02:54 | | | |
| 1,4-Dichlorobenzene-d4 | 189475 | 9.306 | 188081 | 9.298 | 101 | 50 - 200 | 0.008 | +/-0.50 | |
| Naphthalene-d8 | 676186 | 11.774 | 674549 | 11.774 | 100 | 50 - 200 | 0.000 | +/-0.50 | |
| Acenaphthene-d10 | 328650 | 15.379 | 328275 | 15.387 | 100 | 50 - 200 | -0.008 | +/-0.50 | |
| Phenanthrene-d10 | 617605 | 18.424 | 597140 | 18.424 | 103 | 50 - 200 | 0.000 | +/-0.50 | |
| Chrysene-d12 | 473513 | 23.454 | 466503 | 23.454 | 102 | 50 - 200 | 0.000 | +/-0.50 | |
| Perylene-d12 | 534734 | 26.187 | 518203 | 26.187 | 103 | 50 - 200 | 0.000 | +/-0.50 | |



INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270E-SIM

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLC0407

SDG: 23A0180
Project: AOC5 MR Phase 1
Instrument: NT10
Calibration: GC00049

| Internal Standard | Response | RT | Reference Response | Reference RT | Area % | Area % Limits | RT Diff | RT Diff Limit | Q |
|---|----------|---------|------------------------------|--------------|--------|--------------------------|---------|---------------|---|
| Initial Cal Check (SLC0407-ICV1) | | (Solid) | Lab File ID: NT1003222303S.D | | | Analyzed: 03/22/23 18:20 | | | |
| 1,4-Dichlorobenzene-d4 | 135191 | 9.09 | 135191 | 9.09 | 100 | 50 - 200 | 0.000 | +/-0.50 | |
| Naphthalene-d8 | 487226 | 11.569 | 487226 | 11.569 | 100 | 50 - 200 | 0.000 | +/-0.50 | |
| Acenaphthene-d10 | 246588 | 15.198 | 246588 | 15.198 | 100 | 50 - 200 | 0.000 | +/-0.50 | |
| Phenanthrene-d10 | 479352 | 18.25 | 479352 | 18.25 | 100 | 50 - 200 | 0.000 | +/-0.50 | |
| Chrysene-d12 | 439791 | 23.343 | 439791 | 23.343 | 100 | 50 - 200 | 0.000 | +/-0.50 | |
| Perylene-d12 | 505700 | 26.029 | 505700 | 26.029 | 100 | 50 - 200 | 0.000 | +/-0.50 | |
| Blank (BLC0442-BLK2) | | (Solid) | Lab File ID: NT1003222306S.D | | | Analyzed: 03/22/23 20:16 | | | |
| 1,4-Dichlorobenzene-d4 | 184770 | 9.089 | 135191 | 9.09 | 137 | 50 - 200 | -0.001 | +/-0.50 | |
| Naphthalene-d8 | 645327 | 11.569 | 487226 | 11.569 | 132 | 50 - 200 | 0.000 | +/-0.50 | |
| Acenaphthene-d10 | 320820 | 15.198 | 246588 | 15.198 | 130 | 50 - 200 | 0.000 | +/-0.50 | |
| Phenanthrene-d10 | 609921 | 18.25 | 479352 | 18.25 | 127 | 50 - 200 | 0.000 | +/-0.50 | |
| Chrysene-d12 | 528163 | 23.342 | 439791 | 23.343 | 120 | 50 - 200 | -0.001 | +/-0.50 | |
| Perylene-d12 | 592176 | 26.021 | 505700 | 26.029 | 117 | 50 - 200 | -0.008 | +/-0.50 | |
| LCS (BLC0442-BS2) | | (Solid) | Lab File ID: NT1003222307S.D | | | Analyzed: 03/22/23 20:54 | | | |
| 1,4-Dichlorobenzene-d4 | 174597 | 9.082 | 135191 | 9.09 | 129 | 50 - 200 | -0.008 | +/-0.50 | |
| Naphthalene-d8 | 639634 | 11.577 | 487226 | 11.569 | 131 | 50 - 200 | 0.008 | +/-0.50 | |
| Acenaphthene-d10 | 322589 | 15.198 | 246588 | 15.198 | 131 | 50 - 200 | 0.000 | +/-0.50 | |
| Phenanthrene-d10 | 633150 | 18.25 | 479352 | 18.25 | 132 | 50 - 200 | 0.000 | +/-0.50 | |
| Chrysene-d12 | 572648 | 23.342 | 439791 | 23.343 | 130 | 50 - 200 | -0.001 | +/-0.50 | |
| Perylene-d12 | 635593 | 26.029 | 505700 | 26.029 | 126 | 50 - 200 | 0.000 | +/-0.50 | |
| LCS Dup (BLC0442-BSD2) | | (Solid) | Lab File ID: NT1003222308S.D | | | Analyzed: 03/22/23 21:32 | | | |
| 1,4-Dichlorobenzene-d4 | 168404 | 9.09 | 135191 | 9.09 | 125 | 50 - 200 | 0.000 | +/-0.50 | |
| Naphthalene-d8 | 617172 | 11.577 | 487226 | 11.569 | 127 | 50 - 200 | 0.008 | +/-0.50 | |
| Acenaphthene-d10 | 314236 | 15.198 | 246588 | 15.198 | 127 | 50 - 200 | 0.000 | +/-0.50 | |
| Phenanthrene-d10 | 622069 | 18.25 | 479352 | 18.25 | 130 | 50 - 200 | 0.000 | +/-0.50 | |
| Chrysene-d12 | 538810 | 23.343 | 439791 | 23.343 | 123 | 50 - 200 | 0.000 | +/-0.50 | |
| Perylene-d12 | 608756 | 26.029 | 505700 | 26.029 | 120 | 50 - 200 | 0.000 | +/-0.50 | |



INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270E-SIM

Laboratory: Analytical Resources, LLC
Client: Anchor OEA, LLC
Sequence: SLC0407

SDG: 23A0180
Project: AOC5 MR Phase 1
Instrument: NT10
Calibration: GC00049

| Internal Standard | Response | RT | Reference Response | Reference RT | Area % | Area % Limits | RT Diff | RT Diff Limit | Q |
|---|----------|---------|------------------------------|--------------|--------|--------------------------|---------|---------------|---|
| Reference (BLC0442-SRM2) | | (Solid) | Lab File ID: NT1003222309S.D | | | Analyzed: 03/22/23 22:10 | | | |
| 1,4-Dichlorobenzene-d4 | 194361 | 9.082 | 135191 | 9.09 | 144 | 50 - 200 | -0.008 | +/-0.50 | |
| Naphthalene-d8 | 688684 | 11.569 | 487226 | 11.569 | 141 | 50 - 200 | 0.000 | +/-0.50 | |
| Acenaphthene-d10 | 340192 | 15.198 | 246588 | 15.198 | 138 | 50 - 200 | 0.000 | +/-0.50 | |
| Phenanthrene-d10 | 669550 | 18.25 | 479352 | 18.25 | 140 | 50 - 200 | 0.000 | +/-0.50 | |
| Chrysene-d12 | 590805 | 23.343 | 439791 | 23.343 | 134 | 50 - 200 | 0.000 | +/-0.50 | |
| Perylene-d12 | 678670 | 26.021 | 505700 | 26.029 | 134 | 50 - 200 | -0.008 | +/-0.50 | |
| Initial Cal Check (SLC0407-ICV2) | | (Solid) | Lab File ID: NT1003222318S.D | | | Analyzed: 03/23/23 03:52 | | | |
| 1,4-Dichlorobenzene-d4 | 140507 | 9.09 | 140507 | 9.09 | 100 | 50 - 200 | 0.000 | +/-0.50 | |
| Naphthalene-d8 | 499190 | 11.577 | 499190 | 11.577 | 100 | 50 - 200 | 0.000 | +/-0.50 | |
| Acenaphthene-d10 | 250303 | 15.206 | 250303 | 15.206 | 100 | 50 - 200 | 0.000 | +/-0.50 | |
| Phenanthrene-d10 | 496896 | 18.258 | 496896 | 18.258 | 100 | 50 - 200 | 0.000 | +/-0.50 | |
| Chrysene-d12 | 465837 | 23.35 | 465837 | 23.35 | 100 | 50 - 200 | 0.000 | +/-0.50 | |
| Perylene-d12 | 551078 | 26.037 | 551078 | 26.037 | 100 | 50 - 200 | 0.000 | +/-0.50 | |
| Instrument Blank (SLC0407-IBL1) | | (Solid) | Lab File ID: NT1003222321S.D | | | Analyzed: 03/23/23 05:46 | | | |
| 1,4-Dichlorobenzene-d4 | 178871 | 9.082 | 140507 | 9.09 | 127 | 50 - 200 | -0.008 | +/-0.50 | |
| Naphthalene-d8 | 638364 | 11.577 | 499190 | 11.577 | 128 | 50 - 200 | 0.000 | +/-0.50 | |
| Acenaphthene-d10 | 315474 | 15.198 | 250303 | 15.206 | 126 | 50 - 200 | -0.008 | +/-0.50 | |
| Phenanthrene-d10 | 604250 | 18.258 | 496896 | 18.258 | 122 | 50 - 200 | 0.000 | +/-0.50 | |
| Chrysene-d12 | 549439 | 23.35 | 465837 | 23.35 | 118 | 50 - 200 | 0.000 | +/-0.50 | |
| Perylene-d12 | 633519 | 26.044 | 551078 | 26.037 | 115 | 50 - 200 | 0.007 | +/-0.50 | |
| LDW23-SC1164 (23A0180-01RE1) | | (Solid) | Lab File ID: NT1003222329S.D | | | Analyzed: 03/23/23 10:49 | | | |
| 1,4-Dichlorobenzene-d4 | 162405 | 9.09 | 140507 | 9.09 | 116 | 50 - 200 | 0.000 | +/-0.50 | |
| Naphthalene-d8 | 584903 | 11.585 | 499190 | 11.577 | 117 | 50 - 200 | 0.008 | +/-0.50 | |
| Acenaphthene-d10 | 286668 | 15.206 | 250303 | 15.206 | 115 | 50 - 200 | 0.000 | +/-0.50 | |
| Phenanthrene-d10 | 630971 | 18.273 | 496896 | 18.258 | 127 | 50 - 200 | 0.015 | +/-0.50 | |
| Chrysene-d12 | 572641 | 23.374 | 465837 | 23.35 | 123 | 50 - 200 | 0.024 | +/-0.50 | |
| Perylene-d12 | 618527 | 26.076 | 551078 | 26.037 | 112 | 50 - 200 | 0.039 | +/-0.50 | |



INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270E-SIM

Laboratory: Analytical Resources, LLC
Client: Anchor OEA, LLC
Sequence: SLC0407

SDG: 23A0180
Project: AOC5 MR Phase 1
Instrument: NT10
Calibration: GC00049

| Internal Standard | Response | RT | Reference Response | Reference RT | Area % | Area % Limits | RT Diff | RT Diff Limit | Q |
|--|----------|---------|------------------------------|--------------|--------|--------------------------|---------|---------------|---|
| LDW23-SC1164-FD (23A0180-02RE1) | | (Solid) | Lab File ID: NT1003222330S.D | | | Analyzed: 03/23/23 11:27 | | | |
| 1,4-Dichlorobenzene-d4 | 164380 | 9.089 | 140507 | 9.09 | 117 | 50 - 200 | -0.001 | +/-0.50 | |
| Naphthalene-d8 | 592145 | 11.585 | 499190 | 11.577 | 119 | 50 - 200 | 0.008 | +/-0.50 | |
| Acenaphthene-d10 | 287707 | 15.206 | 250303 | 15.206 | 115 | 50 - 200 | 0.000 | +/-0.50 | |
| Phenanthrene-d10 | 626634 | 18.273 | 496896 | 18.258 | 126 | 50 - 200 | 0.015 | +/-0.50 | |
| Chrysene-d12 | 550041 | 23.373 | 465837 | 23.35 | 118 | 50 - 200 | 0.023 | +/-0.50 | |
| Perylene-d12 | 591581 | 26.075 | 551078 | 26.037 | 107 | 50 - 200 | 0.038 | +/-0.50 | |
| LDW23-SC1158 (23A0180-03RE1) | | (Solid) | Lab File ID: NT1003222331S.D | | | Analyzed: 03/23/23 12:05 | | | |
| 1,4-Dichlorobenzene-d4 | 159142 | 9.09 | 140507 | 9.09 | 113 | 50 - 200 | 0.000 | +/-0.50 | |
| Naphthalene-d8 | 578341 | 11.577 | 499190 | 11.577 | 116 | 50 - 200 | 0.000 | +/-0.50 | |
| Acenaphthene-d10 | 281002 | 15.198 | 250303 | 15.206 | 112 | 50 - 200 | -0.008 | +/-0.50 | |
| Phenanthrene-d10 | 611326 | 18.258 | 496896 | 18.258 | 123 | 50 - 200 | 0.000 | +/-0.50 | |
| Chrysene-d12 | 556524 | 23.358 | 465837 | 23.35 | 119 | 50 - 200 | 0.008 | +/-0.50 | |
| Perylene-d12 | 602291 | 26.052 | 551078 | 26.037 | 109 | 50 - 200 | 0.015 | +/-0.50 | |
| LDW23-SC1151 (23A0180-04RE1) | | (Solid) | Lab File ID: NT1003222332S.D | | | Analyzed: 03/23/23 12:44 | | | |
| 1,4-Dichlorobenzene-d4 | 145720 | 9.089 | 140507 | 9.09 | 104 | 50 - 200 | -0.001 | +/-0.50 | |
| Naphthalene-d8 | 534791 | 11.577 | 499190 | 11.577 | 107 | 50 - 200 | 0.000 | +/-0.50 | |
| Acenaphthene-d10 | 261557 | 15.198 | 250303 | 15.206 | 104 | 50 - 200 | -0.008 | +/-0.50 | |
| Phenanthrene-d10 | 577037 | 18.257 | 496896 | 18.258 | 116 | 50 - 200 | -0.001 | +/-0.50 | |
| Chrysene-d12 | 540918 | 23.358 | 465837 | 23.35 | 116 | 50 - 200 | 0.008 | +/-0.50 | |
| Perylene-d12 | 578351 | 26.044 | 551078 | 26.037 | 105 | 50 - 200 | 0.007 | +/-0.50 | |
| Calibration Check (SLC0407-CCV1) | | (Solid) | Lab File ID: NT1003222334S.D | | | Analyzed: 03/23/23 14:00 | | | |
| 1,4-Dichlorobenzene-d4 | 116179 | 9.084 | 140507 | 9.09 | 83 | 50 - 200 | -0.006 | +/-0.50 | |
| Naphthalene-d8 | 430639 | 11.572 | 499190 | 11.577 | 86 | 50 - 200 | -0.005 | +/-0.50 | |
| Acenaphthene-d10 | 225476 | 15.201 | 250303 | 15.206 | 90 | 50 - 200 | -0.005 | +/-0.50 | |
| Phenanthrene-d10 | 447813 | 18.253 | 496896 | 18.258 | 90 | 50 - 200 | -0.005 | +/-0.50 | |
| Chrysene-d12 | 423530 | 23.345 | 465837 | 23.35 | 91 | 50 - 200 | -0.005 | +/-0.50 | |
| Perylene-d12 | 462101 | 26.024 | 551078 | 26.037 | 84 | 50 - 200 | -0.013 | +/-0.50 | |



HOLDING TIME SUMMARY

Analysis: EPA 8270E-SIM

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

| Sample Name | Date Collected | Date Received | Date Prepared | Days to Prep | Max Days to Prep | Date Analyzed | Days to Analysis | Max Days to Analysis | Q |
|----------------------------------|-------------------|-------------------|-------------------|--------------|------------------|-------------------|------------------|----------------------|---|
| LDW23-SC1164 23A0180-01RE1 | 01/10/23 08:05 | 01/10/23 17:10 | 03/17/23 14:20 | 66 | 365 | 03/23/23 10:49 | 6 | 40 | |
| LDW23-SC1164-FD 23A0180-02RE1 | 01/10/23 08:05 | 01/10/23 17:10 | 03/17/23 14:20 | 66 | 365 | 03/23/23 11:27 | 6 | 40 | |
| LDW23-SC1158 23A0180-03RE1 | 01/10/23 08:33 | 01/10/23 17:10 | 03/17/23 14:20 | 66 | 365 | 03/23/23 12:05 | 6 | 40 | |
| LDW23-SC1151 23A0180-04RE1 | 01/10/23 09:07 | 01/10/23 17:10 | 03/17/23 14:20 | 66 | 365 | 03/23/23 12:44 | 6 | 40 | |

* Indicates hold time exceedance.



**METHOD DETECTION
AND REPORTING LIMITS**

EPA 8270E-SIM

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Matrix: Solid

Instrument: NT10

| Analyte | MDL | RL | Units |
|------------------------|------------|-----------|--------------|
| 1,4-Dichlorobenzene | 0.6 | 5.0 | ug/kg |
| 1,2-Dichlorobenzene | 0.7 | 5.0 | ug/kg |
| Benzyl Alcohol | 2.5 | 20.0 | ug/kg |
| Benzoic acid | 13.4 | 100 | ug/kg |
| 2,4-Dimethylphenol | 2.2 | 20.0 | ug/kg |
| 1,2,4-Trichlorobenzene | 2.7 | 5.0 | ug/kg |
| N-Nitrosodiphenylamine | 1.3 | 5.0 | ug/kg |
| Pentachlorophenol | 2.1 | 20.0 | ug/kg |



Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer: NA

Chemical: Tributyl Phosphate

Manufacturer: Chemservice

Product #: 0-916

Lot #: 59-57A

Purity: 99%

Analyst: VFB

Element: B000954



| | | | |
|---------------------|------------------|--------------|-----------------------|
| Description: | SVOC 4,4 DDT | Expires: | 31-Dec-29 |
| Standard Type: | Calibration Stan | Prepared: | 23-Sep-13 |
| Solvent: | N/A | Prepared By: | Jianqing Zhou |
| Final Volume (mls): | 1 | Department: | Organics |
| Vials: | 1 | Last Edit: | 23-Sep-13 11:46 by JZ |
| Vendor: | Chem Service | Lot #: | 198-128A |
| Vendor Catalog #: | | | |

Comments

Neat, Purity @ 99.2%. (ARI#: 790A)

| Analyte | CAS Number | Concentration | Units |
|----------|------------|---------------|-------|
| 4,4'-DDT | 50-29-3 | 1000000 | ug/mL |

Reviewed By

Date



Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer: _____

Chemical: 4,4' DDT

Manufacturer: Chem Service

Product #: _____

Lot #: 198-128A

Purity: 99.2%

Analyst: AS



Description: SVOC alpha-Terpineol Expires: 31-Dec-29
Standard Type: Calibration Stan Prepared: 31-Dec-12
Solvent: N/A Prepared By: Jianqing Zhou
Final Volume (mls): 1 Department: Organics
Vials: 1 Last Edit: 23-Sep-13 12:13 by JZ
Vendor: ACROS Organics Lot #: AD16481201
Vendor Catalog #:

Comments

Neat, Purity @ 98%. (ARI#: I1582A)

| Analyte | CAS Number | Concentration | Units |
|-----------------|------------|---------------|-------|
| alpha-Terpineol | 98-55-5 | 1000000 | ug/mL |

Reviewed By

Date



Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer: _____

Chemical: alpha-Terpineol

Manufacturer: Acros Organics

Product #: _____

Lot #: AD6481201

Purity: 98%

Analyst: 12



Description: SVOA Dibutyl Phenyl phosphate Expires: 31-Dec-29
Standard Type: Calibration Stan Prepared: 31-Dec-12
Solvent: NA Prepared By: Jianqing Zhou
Final Volume (mls): 1 Department: Organics
Vials: 1 Last Edit: 23-Sep-13 15:45 by JZ
Vendor: Monsanto Lot #: N/A
Vendor Catalog #:

Comments

Neat, Purity @ 98.9%.

| Analyte | CAS Number | Concentration | Units |
|--------------------------|------------|---------------|-------|
| Dibutyl Phenyl Phosphate | 2528-36-1 | 1000000 | ug/mL |



Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer: _____

Chemical: Dibutyl Phenyl Phosphate

Manufacturer: Monsanto

Product #: N/A

Lot #: N/A

Purity: 98.9%

Analyst: AD



Description: SVOC Triphenyl Phosphate Expires: 31-Dec-29
Standard Type: Calibration Stan Prepared: 31-Dec-12
Solvent: NA Prepared By: Jianqing Zhou
Final Volume (mls): 1 Department: Organics
Vials: 1 Last Edit: 23-Sep-13 15:59 by JZ
Vendor: Aldrich Lot #: 04902CM
Vendor Catalog #:

Comments

Neat, Purity @ 99%.

| Analyte | CAS Number | Concentration | Units |
|---------------------|------------|---------------|-------|
| Triphenyl Phosphate | 115-86-6 | 1000000 | ug/mL |

Reviewed By

Date



Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer: _____

Chemical: Triphenyl phosphate

Manufacturer: Aldrich

Product #: _____

Lot #: 04902CM

Purity: 99%

Analyst: [Signature]



| | | | |
|---------------------|-------------------------------|--------------|-----------------------|
| Description: | SVOC Butylated Hydroxytoluene | Expires: | 31-Dec-29 |
| Standard Type: | Calibration Stan | Prepared: | 31-Dec-12 |
| Solvent: | NA | Prepared By: | Jianqing Zhou |
| Final Volume (mls): | 1 | Department: | Organics |
| Vials: | 1 | Last Edit: | 23-Sep-13 16:18 by JZ |
| Vendor: | SIGMA | Lot #: | 39F-0197 |
| Vendor Catalog #: | | | |

Comments

neat,Purity @ 99.9%.

| Analyte | CAS Number | Concentration | Units |
|--------------------------|------------|---------------|-------|
| Butylated Hydroxytoluene | 128-37-0 | 1000000 | ug/mL |

Reviewed By

Date



Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer: _____

Chemical: Bulkyated Hydroxytoluene

Manufacturer: Sigma

Product #: _____

Lot #: 39F-0197

Purity: 99.8%

Analyst: AB



| | | | |
|---------------------|-------------------------------|--------------|-----------------------|
| Description: | SVOC Butyl Diphenyl Phosphate | Expires: | 31-Dec-29 |
| Standard Type: | Calibration Stan | Prepared: | 31-Dec-12 |
| Solvent: | NA | Prepared By: | Jianqing Zhou |
| Final Volume (mls): | 1 | Department: | Organics |
| Vials: | 1 | Last Edit: | 23-Sep-13 17:02 by JZ |
| Vendor: | Monsanto | Lot #: | N/A |
| Vendor Catalog #: | | | |

Comments

Neat, Purity @ 98%.

| Analyte | CAS Number | Concentration | Units |
|--------------------------|------------|---------------|-------|
| Butyl Diphenyl Phosphate | 2752-95-6 | 1000000 | ug/mL |

Reviewed By

Date



Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer: _____

Chemical: Butyl Diphenyl Phosphate

Manufacturer: Monsanto

Product #: NA

Lot #: NA

Purity: 99%

Analyst: [Signature]



Description: SVOC 2,4-Dinitrophenol
 Standard Type: Calibration Stan
 Solvent: NA
 Final Volume (mls): 1
 Vials: 1
 Vendor: SIGMA
 Vendor Catalog #:

Expires: 31-Dec-29
 Prepared: 25-Sep-13
 Prepared By: Jianqing Zhou
 Department: Organics
 Last Edit: 25-Sep-13 13:45 by JZ
 Lot #: 65H5021

Comments

Neat, Purity @ 90-95%. (ARI#: 0466)

| Analyte | CAS Number | Concentration | Units |
|-------------------|------------|---------------|-------|
| 2,4-Dinitrophenol | 51-28-5 | 1000000 | ug/mL |

B001941

SVOA 2,4-Dinitrophenol
 Expires 12/31/2029
 Prepared By Jianqing Zhou 9/25/2013



Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer: _____

Chemical: 2,4-Dinitrophenol

Manufacturer: Sigma

Product #: _____

Lot #: 644 5021

Purity: 90.29%

Analyst: AB



| | | | |
|---------------------|-------------------|--------------|-----------------------|
| Description: | SVOC Benzoic Acid | Expires: | 31-Dec-29 |
| Standard Type: | Calibration Stan | Prepared: | 31-Dec-12 |
| Solvent: | NA | Prepared By: | Jianqing Zhou |
| Final Volume (mls): | 1 | Department: | Organics |
| Vials: | 1 | Last Edit: | 25-Sep-13 15:23 by JZ |
| Vendor: | ACROS Organics | Lot #: | A0224339 |
| Vendor Catalog #: | | | |

Comments

Neat, Purity @ 98%.

| Analyte | CAS Number | Concentration | Units |
|--------------|------------|---------------|-------|
| Benzoic acid | 65-85-0 | 1000000 | ug/mL |

B001945

SVOC Benzoic Acid

Expires 12/31/2029

Prepared By Jianqing Zhou 12/31/2012

Reviewed By

Date



Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer: _____

Chemical: Benzoic Acid

Manufacturer: Acros Organics

Product #: _____

Lot #: A0224339

Purity: 98%

Analyst: AB



| | | | |
|---------------------|---------------------------------|--------------|-----------------------|
| Description: | SVOC 4,6-Dinitro-2-Methylphenol | Expires: | 31-Dec-29 |
| Standard Type: | Calibration Stan | Prepared: | 25-Sep-13 |
| Solvent: | NA | Prepared By: | Jianqing Zhou |
| Final Volume (mls): | 1 | Department: | Organics |
| Vials: | 1 | Last Edit: | 25-Sep-13 15:37 by JZ |
| Vendor: | Chem Service | Lot #: | 179-31A |
| Vendor Catalog #: | | | |

Comments

Neat, Purity @ 99%. (ARI#: 009A)

| Analyte | CAS Number | Concentration | Units |
|----------------------------|------------|---------------|-------|
| 4,6-Dinitro-2-methylphenol | 534-52-1 | 1000000 | ug/mL |

B001948

SVOA 4,6-Dinitro-2-Methylphenol
Expires 12/31/2029
Prepared By Jianqing Zhou 9/25/2013



Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer: _____

Chemical: 4,6-Dinitro-2-Methylphenol

Manufacturer: Chem Service

Product #: _____

Lot #: 179-31A

Purity: 99%

Analyst: RB



| | | | |
|---------------------|--------------------------|--------------|-----------------------|
| Description: | SVOA 1-Methylnaphthalene | Expires: | 02-Apr-14 |
| Standard Type: | Analyte Spike | Prepared: | 13-Dec-12 |
| Solvent: | NA | Prepared By: | Jianqing Zhou |
| Final Volume (mls): | 1 | Department: | Organics |
| Vials: | 1 | Last Edit: | 04-Oct-13 18:32 by JZ |
| Vendor: | Chem Service | Lot #: | 62-5B |
| Vendor Catalog #: | | | |

Comments

Neat, Purity @ 99%

| Analyte | CAS Number | Concentration | Units |
|---------------------|------------|---------------|-------|
| 1-Methylnaphthalene | 90-12-0 | 1000000 | ug/mL |



B002054
SVOA 1-Methylnaphthalene
Solvent / Lot: NA
Prep: 12/13/2012 by JZ
Exp: 12/31/2029
Location:



Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer: _____

Chemical: 1-Methyl naphthalene

Manufacturer: Chem Service

Product #: 0787

Lot #: 62-53

Purity: 99%

Analyst: AB



Description: SVOA Benzidine Expires: 31-Dec-29
Standard Type: Analyte Spike Prepared: 15-Oct-13
Solvent: N/A Prepared By: Jianqing Zhou
Final Volume (mls): 1 Department: Organics
Vials: 1 Last Edit: 15-Oct-13 12:07 by JZ
Vendor: SIGMA Lot #: 18C0024
Vendor Catalog #:

Comments

Purity @ 95%. ARI#: 0467.

| Analyte | CAS Number | Concentration | Units |
|-----------|------------|---------------|-------|
| Benzidine | 92-87-5 | 1000000 | ug/mL |



Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer: _____

Chemical: Benzidine

Manufacturer: Sigma

Product #: B-3503

Lot #: 18C0024

Purity: 95%

Analyst: B.

Certificate of Analysis

Product Name: 1,2,4,5-Tetrachlorobenzene
Product Description: 98%
Product Brand: Sigma-Aldrich
Product Number: 131857
Molecular Weight: 215.89
CAS Number: 95-94-3

TEST

APPEARANCE
INFRARED SPECTRUM

GAS LIQUID

QUALITY CONTROL

SPECIFICATION

WHITE POWDER, CHIPS OR CRYSTALS
CONFORMS TO STRUCTURE.

97.5% (MINIMUM)

LOT 19309JR RESULTS

WHITE CHIPS
CONFORMS TO STRUCTURE AND
STANDARD AS
ILLUSTRATED ON PAGE 1011C OF EDITION
I,
VOLUME 1 OF "THE ALDRICH LIBRARY OF
FT-IR
SPECTRA".
99.9 %
JULY 1997



Barbara Rajzer, Supervisor
Quality Control
Milwaukee, Wisconsin USA

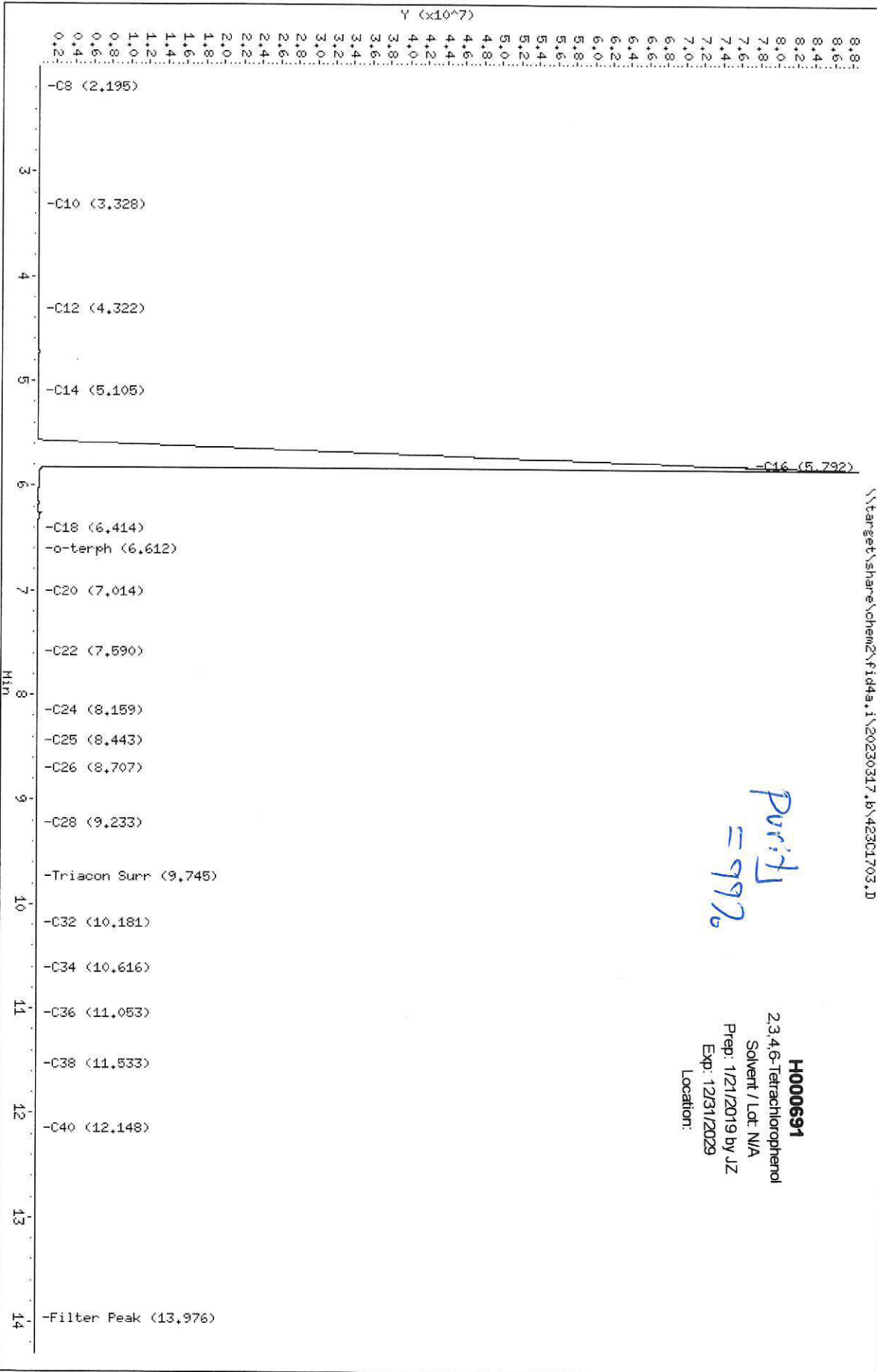
F009172

SVOC 1,2,4,5-Tetrachlorobenzene
Expires 12/31/2079
Prepared By Joshua Rains 10/6/2017

Data File: \\target\share\chem2\fid4a,1\20230317,1\42301703.D
Date: 17-MAR-2023 10:46
Client ID:
Sample Info: K007226

Column phase: RTX-1

Instrument: fid4a.i
Operator: AA
Column diameter: 0.25



Purity = 99.2%

H000691
2,3,4,6-Tetrachlorophenol
Solvent / Lot: N/A
Prep: 1/21/2019 by JZ
Exp: 12/31/2029
Location:

H000691

ARI Labs, Inc.

Data file : \\target\share\chem2\fid4a.i\20230317.b\423C1703.D
 Lab Smp Id: K007226
 Inj Date : 17-MAR-2023 10:46
 Operator : AA Inst ID: fid4a.i
 Smp Info : K007226
 Misc Info :
 Comment :
 Method : \\target\share\chem2\fid4a.i\20230317.b\FID4TPH.m
 Meth Date : 17-Mar-2023 16:58 alfonso Quant Type: AREA%
 Cal Date : 18-AUG-2022 11:51 Cal File: 422H1803.D
 Als bottle: 10
 Dil Factor: 1.00000
 Integrator: Falcon+ Compound Sublist: tph.sub
 Target Version: 4.14
 Processing Host: ALFONSO-201901

Concentration Formula: Amt * DF * CpndVariable
 Cpnd Variable Local Compound Variable

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|-------|-------|--------|---------|--------|-----------|
| 2.043 | 81395 | 55677 | 0.684 | 0.012 | 1 Toluene |
| 2.074 | 68503 | 39991 | 0.584 | 0.010 | |
| 2.104 | 85451 | 37158 | 0.435 | 0.012 | |
| 2.146 | 59381 | 25207 | 0.424 | 0.008 | |
| 2.181 | 11414 | 22862 | 2.003 | 0.001 | |
| 2.195 | 34939 | 23199 | 0.664 | 0.005 | 2 C8 |
| 2.218 | 8679 | 21808 | 2.513 | 0.001 | |
| 2.224 | 21070 | 21832 | 1.036 | 0.003 | |
| 2.243 | 45086 | 20191 | 0.448 | 0.006 | |
| 2.286 | 3130 | 15677 | 5.009 | 0.000 | |
| 2.291 | 12615 | 15880 | 1.259 | 0.001 | |
| 2.313 | 20979 | 15888 | 0.757 | 0.003 | |
| 2.333 | 7621 | 15373 | 2.017 | 0.001 | |
| 2.348 | 31874 | 17112 | 0.537 | 0.004 | |
| 2.373 | 4619 | 13267 | 2.872 | 0.000 | |
| 2.380 | 12003 | 13446 | 1.120 | 0.001 | |
| 2.393 | 10327 | 13347 | 1.292 | 0.001 | |
| 2.408 | 9963 | 12697 | 1.274 | 0.001 | |
| 2.446 | 24366 | 11882 | 0.488 | 0.003 | |
| 2.498 | 24898 | 10214 | 0.410 | 0.003 | |
| 2.557 | 1592 | 6395 | 4.017 | 0.000 | |
| 2.570 | 4427 | 6384 | 1.442 | 0.000 | |
| 2.583 | 4275 | 6215 | 1.454 | 0.000 | |
| 2.595 | 1208 | 6068 | 5.024 | 0.000 | |
| 2.602 | 3076 | 6230 | 2.025 | 0.000 | |
| 2.607 | 1560 | 6270 | 4.019 | 0.000 | |
| 2.631 | 17195 | 8933 | 0.520 | 0.002 | |
| 2.654 | 17386 | 7637 | 0.439 | 0.002 | |
| 2.703 | 4531 | 5468 | 1.207 | 0.000 | |
| 2.717 | 9156 | 5741 | 0.627 | 0.001 | |
| 2.740 | 3955 | 5045 | 1.275 | 0.000 | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|-------|-------|--------|---------|--------|-----------|
| 2.768 | 1029 | 4134 | 4.017 | 0.000 | |
| 2.771 | 830 | 4189 | 5.050 | 0.000 | |
| 2.778 | 1924 | 4438 | 2.307 | 0.000 | |
| 2.784 | 5498 | 4564 | 0.830 | 0.000 | |
| 2.846 | 25970 | 8400 | 0.323 | 0.003 | |
| 2.880 | 939 | 3165 | 3.370 | 0.000 | |
| 2.884 | 1885 | 3183 | 1.688 | 0.000 | |
| 2.901 | 4805 | 3504 | 0.729 | 0.000 | |
| 2.938 | 581 | 1990 | 3.423 | 0.000 | |
| 2.944 | 1450 | 2016 | 1.390 | 0.000 | |
| 2.955 | 449 | 1816 | 4.043 | 0.000 | |
| 2.967 | 1234 | 2009 | 1.629 | 0.000 | |
| 2.982 | 712 | 2087 | 2.931 | 0.000 | |
| 2.988 | 1000 | 2338 | 2.337 | 0.000 | |
| 3.001 | 3475 | 3541 | 1.019 | 0.000 | |
| 3.018 | 3528 | 3705 | 1.050 | 0.000 | |
| 3.033 | 983 | 2521 | 2.564 | 0.000 | |
| 3.038 | 1297 | 2686 | 2.070 | 0.000 | |
| 3.044 | 2547 | 2541 | 0.997 | 0.000 | |
| 3.069 | 389 | 1330 | 3.418 | 0.000 | |
| 3.078 | 728 | 1545 | 2.123 | 0.000 | |
| 3.085 | 1244 | 1637 | 1.316 | 0.000 | |
| 3.098 | 1115 | 1624 | 1.457 | 0.000 | |
| 3.108 | 926 | 1475 | 1.593 | 0.000 | |
| 3.119 | 239 | 1202 | 5.036 | 0.000 | |
| 3.125 | 540 | 1251 | 2.315 | 0.000 | |
| 3.133 | 409 | 1219 | 2.978 | 0.000 | |
| 3.144 | 2600 | 1886 | 0.725 | 0.000 | |
| 3.165 | 620 | 1604 | 2.588 | 0.000 | |
| 3.173 | 554 | 1647 | 2.972 | 0.000 | |
| 3.192 | 2423 | 2273 | 0.938 | 0.000 | |
| 3.197 | 582 | 2418 | 4.158 | 0.000 | |
| 3.204 | 1161 | 2723 | 2.346 | 0.000 | |
| 3.208 | 825 | 2777 | 3.364 | 0.000 | |
| 3.228 | 4472 | 3391 | 0.758 | 0.000 | |
| 3.246 | 1586 | 2676 | 1.688 | 0.000 | |
| 3.279 | 1194 | 2070 | 1.734 | 0.000 | |
| 3.293 | 854 | 1951 | 2.285 | 0.000 | |
| 3.298 | 595 | 2029 | 3.408 | 0.000 | |
| 3.315 | 2640 | 2597 | 0.984 | 0.000 | |
| 3.320 | 1015 | 2542 | 2.504 | 0.000 | |
| 3.328 | 1549 | 2593 | 1.674 | 0.000 | 3 C10 |
| 3.338 | 1314 | 2533 | 1.928 | 0.000 | |
| 3.350 | 523 | 2159 | 4.130 | 0.000 | |
| 3.358 | 1776 | 2105 | 1.185 | 0.000 | |
| 3.371 | 356 | 1797 | 5.043 | 0.000 | |
| 3.378 | 914 | 1880 | 2.057 | 0.000 | |
| 3.383 | 380 | 1927 | 5.068 | 0.000 | |
| 3.387 | 595 | 2023 | 3.399 | 0.000 | |
| 3.395 | 1390 | 2270 | 1.633 | 0.000 | |
| 3.405 | 1490 | 1994 | 1.338 | 0.000 | |
| 3.423 | 690 | 1601 | 2.321 | 0.000 | |
| 3.435 | 821 | 1554 | 1.894 | 0.000 | |
| 3.441 | 387 | 1583 | 4.087 | 0.000 | |
| 3.444 | 401 | 1625 | 4.051 | 0.000 | |
| 3.448 | 403 | 1636 | 4.060 | 0.000 | |
| 3.455 | 1216 | 1700 | 1.398 | 0.000 | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|-------|------|--------|---------|--------|-----------|
| 3.478 | 235 | 1185 | 5.047 | 0.000 | |
| 3.482 | 412 | 1229 | 2.986 | 0.000 | |
| 3.488 | 695 | 1177 | 1.694 | 0.000 | |
| 3.501 | 239 | 969 | 4.063 | 0.000 | |
| 3.509 | 914 | 1149 | 1.258 | 0.000 | |
| 3.520 | 1078 | 1069 | 0.992 | 0.000 | |
| 3.540 | 301 | 927 | 3.079 | 0.000 | |
| 3.556 | 406 | 849 | 2.089 | 0.000 | |
| 3.567 | 370 | 873 | 2.359 | 0.000 | |
| 3.572 | 178 | 939 | 5.270 | 0.000 | |
| 3.578 | 591 | 1171 | 1.981 | 0.000 | |
| 3.591 | 869 | 1353 | 1.556 | 0.000 | |
| 3.596 | 741 | 1352 | 1.826 | 0.000 | |
| 3.606 | 471 | 1401 | 2.976 | 0.000 | |
| 3.613 | 548 | 1411 | 2.577 | 0.000 | |
| 3.618 | 433 | 1521 | 3.511 | 0.000 | |
| 3.625 | 710 | 1635 | 2.303 | 0.000 | |
| 3.630 | 910 | 1667 | 1.832 | 0.000 | |
| 3.652 | 661 | 1562 | 2.362 | 0.000 | |
| 3.670 | 462 | 1214 | 2.627 | 0.000 | |
| 3.686 | 1036 | 1453 | 1.403 | 0.000 | |
| 3.690 | 829 | 1374 | 1.658 | 0.000 | |
| 3.702 | 531 | 1191 | 2.241 | 0.000 | |
| 3.712 | 452 | 1355 | 3.001 | 0.000 | |
| 3.716 | 820 | 1423 | 1.736 | 0.000 | |
| 3.736 | 2685 | 2093 | 0.780 | 0.000 | |
| 3.752 | 689 | 2030 | 2.946 | 0.000 | |
| 3.760 | 4109 | 2349 | 0.572 | 0.000 | |
| 3.805 | 3183 | 2036 | 0.640 | 0.000 | |
| 3.823 | 496 | 1686 | 3.401 | 0.000 | |
| 3.835 | 1641 | 2314 | 1.410 | 0.000 | |
| 3.859 | 9243 | 4616 | 0.499 | 0.001 | |
| 3.897 | 851 | 1745 | 2.051 | 0.000 | |
| 3.904 | 503 | 1721 | 3.419 | 0.000 | |
| 3.927 | 3866 | 3293 | 0.852 | 0.000 | |
| 3.941 | 5520 | 3558 | 0.645 | 0.000 | |
| 3.980 | 573 | 1715 | 2.991 | 0.000 | |
| 3.992 | 1027 | 1794 | 1.748 | 0.000 | |
| 3.995 | 1494 | 1860 | 1.245 | 0.000 | |
| 4.010 | 887 | 1639 | 1.847 | 0.000 | |
| 4.021 | 663 | 1724 | 2.602 | 0.000 | |
| 4.026 | 1380 | 1776 | 1.287 | 0.000 | |
| 4.045 | 306 | 1546 | 5.059 | 0.000 | |
| 4.053 | 1001 | 1758 | 1.757 | 0.000 | |
| 4.061 | 1137 | 1804 | 1.586 | 0.000 | |
| 4.072 | 779 | 1773 | 2.275 | 0.000 | |
| 4.080 | 989 | 1896 | 1.917 | 0.000 | |
| 4.087 | 561 | 1905 | 3.396 | 0.000 | |
| 4.098 | 1956 | 2156 | 1.103 | 0.000 | |
| 4.106 | 1168 | 2044 | 1.750 | 0.000 | |
| 4.127 | 1049 | 1627 | 1.551 | 0.000 | |
| 4.142 | 587 | 1545 | 2.633 | 0.000 | |
| 4.148 | 1155 | 1572 | 1.361 | 0.000 | |
| 4.173 | 3682 | 2398 | 0.651 | 0.000 | |
| 4.189 | 1023 | 1738 | 1.700 | 0.000 | |
| 4.204 | 549 | 1627 | 2.961 | 0.000 | |
| 4.213 | 628 | 1658 | 2.641 | 0.000 | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|-------|--------|--------|---------|--------|-----------|
| 4.221 | 1039 | 1830 | 1.761 | 0.000 | |
| 4.227 | 447 | 1814 | 4.058 | 0.000 | |
| 4.248 | 2703 | 2638 | 0.976 | 0.000 | |
| 4.256 | 1387 | 2945 | 2.123 | 0.000 | |
| 4.260 | 743 | 2988 | 4.022 | 0.000 | |
| 4.265 | 912 | 3081 | 3.378 | 0.000 | |
| 4.268 | 779 | 3140 | 4.031 | 0.000 | |
| 4.275 | 1736 | 3217 | 1.853 | 0.000 | |
| 4.289 | 2688 | 3495 | 1.300 | 0.000 | |
| 4.295 | 3466 | 3448 | 0.995 | 0.000 | |
| 4.322 | 1054 | 2680 | 2.543 | 0.000 | 4 C12 |
| 4.330 | 1686 | 2627 | 1.558 | 0.000 | |
| 4.358 | 1066 | 1974 | 1.852 | 0.000 | |
| 4.378 | 434 | 1758 | 4.054 | 0.000 | |
| 4.384 | 1324 | 1879 | 1.419 | 0.000 | |
| 4.403 | 860 | 1608 | 1.869 | 0.000 | |
| 4.414 | 457 | 1567 | 3.431 | 0.000 | |
| 4.421 | 1117 | 1675 | 1.499 | 0.000 | |
| 4.433 | 910 | 1538 | 1.690 | 0.000 | |
| 4.439 | 865 | 1534 | 1.774 | 0.000 | |
| 4.449 | 764 | 1302 | 1.705 | 0.000 | |
| 4.471 | 433 | 1123 | 2.593 | 0.000 | |
| 4.476 | 734 | 1135 | 1.546 | 0.000 | |
| 4.490 | 385 | 1005 | 2.610 | 0.000 | |
| 4.498 | 555 | 1186 | 2.137 | 0.000 | |
| 4.502 | 695 | 1166 | 1.677 | 0.000 | |
| 4.518 | 587 | 949 | 1.618 | 0.000 | |
| 4.526 | 316 | 925 | 2.924 | 0.000 | |
| 4.533 | 560 | 989 | 1.765 | 0.000 | |
| 4.543 | 469 | 1001 | 2.135 | 0.000 | |
| 4.548 | 222 | 916 | 4.130 | 0.000 | |
| 4.553 | 188 | 980 | 5.207 | 0.000 | |
| 4.558 | 255 | 1038 | 4.076 | 0.000 | |
| 4.568 | 652 | 1157 | 1.775 | 0.000 | |
| 4.573 | 338 | 1151 | 3.409 | 0.000 | |
| 4.580 | 487 | 1283 | 2.636 | 0.000 | |
| 4.596 | 3801 | 1950 | 0.513 | 0.000 | |
| 4.631 | 531 | 1429 | 2.692 | 0.000 | |
| 4.663 | 4548 | 3737 | 0.822 | 0.000 | |
| 4.667 | 2815 | 3822 | 1.358 | 0.000 | |
| 4.679 | 2199 | 3760 | 1.710 | 0.000 | |
| 4.688 | 1068 | 3585 | 3.356 | 0.000 | |
| 4.694 | 2166 | 3742 | 1.727 | 0.000 | |
| 4.723 | 372603 | 172476 | 0.463 | 0.055 | |
| 4.894 | 47034 | 21828 | 0.464 | 0.006 | |
| 4.956 | 80510 | 28154 | 0.350 | 0.011 | |
| 4.999 | 54273 | 16950 | 0.312 | 0.008 | |
| 5.068 | 1137 | 5713 | 5.027 | 0.000 | |
| 5.072 | 8415 | 5792 | 0.688 | 0.001 | |
| 5.105 | 4203 | 4316 | 1.027 | 0.000 | 5 C14 |
| 5.146 | 660 | 2685 | 4.070 | 0.000 | |
| 5.153 | 2524 | 2649 | 1.050 | 0.000 | |
| 5.170 | 1076 | 2437 | 2.265 | 0.000 | |
| 5.174 | 2371 | 2438 | 1.028 | 0.000 | |
| 5.201 | 1013 | 2011 | 1.986 | 0.000 | |
| 5.210 | 2064 | 2332 | 1.130 | 0.000 | |
| 5.224 | 1083 | 2304 | 2.127 | 0.000 | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|-------|-----------|----------|---------|--------|--------------|
| 5.228 | 2027 | 2354 | 1.162 | 0.000 | |
| 5.276 | 4673 | 2682 | 0.574 | 0.000 | |
| 5.322 | 195 | 844 | 4.328 | 0.000 | |
| 5.331 | 977 | 1203 | 1.231 | 0.000 | |
| 5.356 | 490 | 993 | 2.027 | 0.000 | |
| 5.361 | 814 | 1044 | 1.283 | 0.000 | |
| 5.382 | 115 | 387 | 3.351 | 0.000 | |
| 5.399 | 619 | 960 | 1.551 | 0.000 | |
| 5.406 | 402 | 1035 | 2.576 | 0.000 | |
| 5.410 | 378 | 1122 | 2.968 | 0.000 | |
| 5.423 | 1663 | 1555 | 0.935 | 0.000 | |
| 5.452 | 5951 | 5020 | 0.844 | 0.000 | |
| 5.501 | 290 | 797 | 2.753 | 0.000 | |
| 5.523 | 2317 | 2472 | 1.067 | 0.000 | |
| 5.538 | 5946 | 6823 | 1.147 | 0.000 | |
| 5.792 | 501855376 | 76456669 | 0.152 | 74.449 | 6 C16 |
| 5.807 | 79757019 | 82319946 | 1.032 | 11.775 | |
| 5.823 | 77929961 | 88539160 | 1.136 | 11.505 | |
| 5.962 | 75333 | 84828 | 1.126 | 0.011 | |
| 5.986 | 474748 | 124326 | 0.262 | 0.070 | |
| 6.070 | 17103 | 57180 | 3.343 | 0.002 | |
| 6.074 | 120761 | 57565 | 0.477 | 0.017 | |
| 6.113 | 90233 | 47140 | 0.522 | 0.013 | |
| 6.165 | 407438 | 218439 | 0.536 | 0.060 | |
| 6.263 | 944101 | 374166 | 0.396 | 0.139 | |
| 6.414 | 114839 | 39498 | 0.344 | 0.016 | 7 C18 |
| 6.464 | 53190 | 31177 | 0.586 | 0.007 | |
| 6.523 | 31509 | 25870 | 0.821 | 0.004 | |
| 6.551 | 4785 | 23963 | 5.008 | 0.000 | |
| 6.559 | 51194 | 25409 | 0.496 | 0.007 | |
| 6.590 | 21354 | 21666 | 1.015 | 0.003 | |
| 6.612 | 35061 | 21127 | 0.603 | 0.005 | \$ 8 o-terph |
| 6.638 | 17712 | 19934 | 1.125 | 0.002 | |
| 6.672 | 22159 | 19651 | 0.887 | 0.003 | |
| 6.683 | 26846 | 19268 | 0.718 | 0.003 | |
| 6.708 | 5413 | 18142 | 3.351 | 0.000 | |
| 6.713 | 24941 | 18247 | 0.732 | 0.003 | |
| 6.747 | 50657 | 18478 | 0.365 | 0.007 | |
| 6.795 | 23973 | 17444 | 0.728 | 0.003 | |
| 6.814 | 28457 | 17895 | 0.629 | 0.004 | |
| 6.837 | 10746 | 15445 | 1.437 | 0.001 | |
| 6.871 | 29974 | 21406 | 0.714 | 0.004 | |
| 6.874 | 4287 | 21471 | 5.009 | 0.000 | |
| 6.882 | 20520 | 21675 | 1.056 | 0.003 | |
| 6.944 | 32864 | 17445 | 0.531 | 0.004 | |
| 6.978 | 9138 | 15347 | 1.679 | 0.001 | |
| 7.014 | 4130 | 13830 | 3.348 | 0.000 | 9 C20 |
| 7.025 | 12567 | 14083 | 1.121 | 0.001 | |
| 7.038 | 4952 | 14274 | 2.882 | 0.000 | |
| 7.044 | 6508 | 14578 | 2.240 | 0.000 | |
| 7.050 | 25344 | 14736 | 0.581 | 0.003 | |
| 7.099 | 5531 | 12365 | 2.236 | 0.000 | |
| 7.108 | 16440 | 12371 | 0.752 | 0.002 | |
| 7.129 | 9415 | 11275 | 1.198 | 0.001 | |
| 7.175 | 3589 | 10327 | 2.878 | 0.000 | |
| 7.182 | 7285 | 10474 | 1.438 | 0.001 | |
| 7.212 | 11252 | 10002 | 0.889 | 0.001 | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|-------|-------|--------|---------|--------|-----------|
| 7.227 | 5193 | 9506 | 1.830 | 0.000 | |
| 7.237 | 5172 | 9476 | 1.832 | 0.000 | |
| 7.247 | 4652 | 9357 | 2.011 | 0.000 | |
| 7.254 | 3258 | 9369 | 2.875 | 0.000 | |
| 7.259 | 7003 | 9455 | 1.350 | 0.001 | |
| 7.272 | 5540 | 9252 | 1.670 | 0.000 | |
| 7.283 | 4511 | 9087 | 2.014 | 0.000 | |
| 7.296 | 5828 | 9031 | 1.550 | 0.000 | |
| 7.308 | 4850 | 8866 | 1.828 | 0.000 | |
| 7.318 | 3111 | 9014 | 2.897 | 0.000 | |
| 7.324 | 3191 | 9168 | 2.873 | 0.000 | |
| 7.328 | 2775 | 9325 | 3.360 | 0.000 | |
| 7.339 | 6190 | 9713 | 1.569 | 0.000 | |
| 7.344 | 2920 | 9761 | 3.343 | 0.000 | |
| 7.350 | 17091 | 9874 | 0.578 | 0.002 | |
| 7.379 | 7217 | 8616 | 1.194 | 0.001 | |
| 7.395 | 5430 | 8408 | 1.548 | 0.000 | |
| 7.404 | 2492 | 8342 | 3.348 | 0.000 | |
| 7.409 | 1666 | 8354 | 5.014 | 0.000 | |
| 7.415 | 2955 | 8500 | 2.877 | 0.000 | |
| 7.423 | 3887 | 8782 | 2.259 | 0.000 | |
| 7.465 | 28160 | 14253 | 0.506 | 0.004 | |
| 7.471 | 6466 | 14499 | 2.242 | 0.000 | |
| 7.480 | 6649 | 15111 | 2.273 | 0.000 | |
| 7.484 | 26595 | 15197 | 0.571 | 0.003 | |
| 7.514 | 13964 | 13621 | 0.975 | 0.002 | |
| 7.539 | 8118 | 12614 | 1.554 | 0.001 | |
| 7.553 | 10540 | 12495 | 1.185 | 0.001 | |
| 7.584 | 2820 | 11307 | 4.010 | 0.000 | |
| 7.590 | 4522 | 11429 | 2.527 | 0.000 | 10 C22 |
| 7.620 | 16634 | 10435 | 0.627 | 0.002 | |
| 7.653 | 6793 | 9783 | 1.440 | 0.001 | |
| 7.663 | 8606 | 9666 | 1.123 | 0.001 | |
| 7.675 | 2827 | 9464 | 3.347 | 0.000 | |
| 7.683 | 9373 | 9620 | 1.026 | 0.001 | |
| 7.699 | 3657 | 9205 | 2.517 | 0.000 | |
| 7.708 | 5071 | 9290 | 1.832 | 0.000 | |
| 7.713 | 10483 | 9274 | 0.885 | 0.001 | |
| 7.735 | 10686 | 9257 | 0.866 | 0.001 | |
| 7.752 | 4732 | 8664 | 1.831 | 0.000 | |
| 7.765 | 5624 | 8765 | 1.558 | 0.000 | |
| 7.773 | 5614 | 8686 | 1.547 | 0.000 | |
| 7.784 | 3375 | 8506 | 2.520 | 0.000 | |
| 7.793 | 2118 | 8517 | 4.021 | 0.000 | |
| 7.799 | 10086 | 8544 | 0.847 | 0.001 | |
| 7.817 | 7761 | 8325 | 1.073 | 0.001 | |
| 7.833 | 2415 | 8088 | 3.350 | 0.000 | |
| 7.838 | 2838 | 8160 | 2.875 | 0.000 | |
| 7.844 | 3649 | 8173 | 2.240 | 0.000 | |
| 7.858 | 2009 | 8069 | 4.017 | 0.000 | |
| 7.864 | 4482 | 8197 | 1.829 | 0.000 | |
| 7.871 | 3688 | 8223 | 2.230 | 0.000 | |
| 7.879 | 4875 | 8269 | 1.696 | 0.000 | |
| 7.889 | 2009 | 8061 | 4.013 | 0.000 | |
| 7.897 | 4080 | 8308 | 2.036 | 0.000 | |
| 7.916 | 17828 | 10103 | 0.567 | 0.002 | |
| 7.935 | 4052 | 9086 | 2.242 | 0.000 | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|-------|-------|--------|---------|--------|-----------|
| 7.940 | 2229 | 8948 | 4.015 | 0.000 | |
| 7.945 | 5765 | 8973 | 1.556 | 0.000 | |
| 7.954 | 6458 | 8765 | 1.357 | 0.000 | |
| 7.976 | 2099 | 8428 | 4.016 | 0.000 | |
| 7.984 | 10213 | 8807 | 0.862 | 0.001 | |
| 7.999 | 4897 | 8282 | 1.691 | 0.000 | |
| 8.013 | 8782 | 8112 | 0.924 | 0.001 | |
| 8.028 | 5860 | 7858 | 1.341 | 0.000 | |
| 8.040 | 3929 | 7871 | 2.003 | 0.000 | |
| 8.054 | 9161 | 8146 | 0.889 | 0.001 | |
| 8.067 | 2701 | 7766 | 2.876 | 0.000 | |
| 8.074 | 3069 | 7702 | 2.510 | 0.000 | |
| 8.081 | 2694 | 7742 | 2.874 | 0.000 | |
| 8.088 | 2705 | 7793 | 2.881 | 0.000 | |
| 8.095 | 5842 | 7832 | 1.341 | 0.000 | |
| 8.104 | 5419 | 7841 | 1.447 | 0.000 | |
| 8.119 | 5740 | 7735 | 1.348 | 0.000 | |
| 8.134 | 4986 | 7768 | 1.558 | 0.000 | |
| 8.141 | 5893 | 8009 | 1.359 | 0.000 | |
| 8.159 | 9098 | 8027 | 0.882 | 0.001 | 11 C24 |
| 8.174 | 3156 | 7971 | 2.526 | 0.000 | |
| 8.185 | 2376 | 7967 | 3.353 | 0.000 | |
| 8.190 | 4739 | 7937 | 1.675 | 0.000 | |
| 8.202 | 5181 | 8028 | 1.549 | 0.000 | |
| 8.212 | 1994 | 8027 | 4.025 | 0.000 | |
| 8.223 | 6137 | 8270 | 1.348 | 0.000 | |
| 8.236 | 6864 | 8171 | 1.190 | 0.001 | |
| 8.248 | 2383 | 7986 | 3.351 | 0.000 | |
| 8.253 | 2405 | 8059 | 3.351 | 0.000 | |
| 8.259 | 5294 | 8207 | 1.550 | 0.000 | |
| 8.268 | 2866 | 8235 | 2.874 | 0.000 | |
| 8.280 | 6583 | 8312 | 1.263 | 0.000 | |
| 8.289 | 4538 | 8296 | 1.828 | 0.000 | |
| 8.295 | 2060 | 8300 | 4.029 | 0.000 | |
| 8.300 | 2063 | 8291 | 4.020 | 0.000 | |
| 8.313 | 7062 | 8400 | 1.189 | 0.001 | |
| 8.318 | 1667 | 8375 | 5.023 | 0.000 | |
| 8.332 | 11362 | 9100 | 0.801 | 0.001 | |
| 8.343 | 4357 | 8741 | 2.006 | 0.000 | |
| 8.358 | 1267 | 8458 | 6.676 | 0.000 | |
| 8.363 | 2991 | 8621 | 2.882 | 0.000 | |
| 8.371 | 3980 | 8983 | 2.257 | 0.000 | |
| 8.379 | 6330 | 9083 | 1.435 | 0.000 | |
| 8.385 | 3111 | 8963 | 2.881 | 0.000 | |
| 8.393 | 6706 | 9050 | 1.349 | 0.000 | |
| 8.404 | 4903 | 8943 | 1.824 | 0.000 | |
| 8.417 | 8437 | 8972 | 1.063 | 0.001 | |
| 8.438 | 7166 | 9103 | 1.270 | 0.001 | |
| 8.443 | 3211 | 9227 | 2.873 | 0.000 | 12 C25 |
| 8.450 | 3688 | 9295 | 2.521 | 0.000 | |
| 8.455 | 2313 | 9276 | 4.010 | 0.000 | |
| 8.475 | 30054 | 13714 | 0.456 | 0.004 | |
| 8.504 | 5760 | 9733 | 1.690 | 0.000 | |
| 8.519 | 2799 | 9376 | 3.350 | 0.000 | |
| 8.529 | 4766 | 9710 | 2.037 | 0.000 | |
| 8.537 | 4875 | 9815 | 2.013 | 0.000 | |
| 8.543 | 8411 | 9973 | 1.186 | 0.001 | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|-------|-------|--------|---------|--------|-----------|
| 8.555 | 2969 | 9916 | 3.340 | 0.000 | |
| 8.560 | 3974 | 9987 | 2.513 | 0.000 | |
| 8.568 | 2483 | 9997 | 4.026 | 0.000 | |
| 8.572 | 5007 | 10043 | 2.006 | 0.000 | |
| 8.591 | 14074 | 10725 | 0.762 | 0.002 | |
| 8.602 | 2648 | 10665 | 4.028 | 0.000 | |
| 8.606 | 2159 | 10862 | 5.032 | 0.000 | |
| 8.609 | 2183 | 10952 | 5.017 | 0.000 | |
| 8.633 | 7361 | 10561 | 1.435 | 0.001 | |
| 8.647 | 6774 | 10495 | 1.549 | 0.001 | |
| 8.658 | 2596 | 10420 | 4.014 | 0.000 | |
| 8.663 | 4723 | 10573 | 2.239 | 0.000 | |
| 8.669 | 3156 | 10589 | 3.355 | 0.000 | |
| 8.687 | 15405 | 11334 | 0.736 | 0.002 | |
| 8.699 | 6103 | 11158 | 1.828 | 0.000 | |
| 8.707 | 2223 | 11136 | 5.009 | 0.000 | 13 C26 |
| 8.730 | 28697 | 12536 | 0.437 | 0.004 | |
| 8.754 | 8658 | 11553 | 1.334 | 0.001 | |
| 8.763 | 2896 | 11612 | 4.010 | 0.000 | |
| 8.780 | 15029 | 12352 | 0.822 | 0.002 | |
| 8.788 | 1833 | 12243 | 6.680 | 0.000 | |
| 8.798 | 11854 | 12679 | 1.070 | 0.001 | |
| 8.806 | 1873 | 12509 | 6.677 | 0.000 | |
| 8.809 | 3133 | 12565 | 4.011 | 0.000 | |
| 8.813 | 2506 | 12550 | 5.008 | 0.000 | |
| 8.819 | 7588 | 12757 | 1.681 | 0.001 | |
| 8.829 | 4418 | 12679 | 2.870 | 0.000 | |
| 8.835 | 6988 | 12762 | 1.826 | 0.001 | |
| 8.848 | 13711 | 13258 | 0.967 | 0.002 | |
| 8.872 | 26625 | 13656 | 0.513 | 0.003 | |
| 8.894 | 4575 | 13127 | 2.869 | 0.000 | |
| 8.898 | 2631 | 13188 | 5.013 | 0.000 | |
| 8.902 | 5918 | 13262 | 2.241 | 0.000 | |
| 8.914 | 8577 | 13313 | 1.552 | 0.001 | |
| 8.922 | 4011 | 13433 | 3.349 | 0.000 | |
| 8.926 | 4724 | 13546 | 2.867 | 0.000 | |
| 8.933 | 6787 | 13651 | 2.011 | 0.001 | |
| 8.946 | 9614 | 13923 | 1.448 | 0.001 | |
| 8.951 | 6274 | 14004 | 2.232 | 0.000 | |
| 8.960 | 5592 | 14036 | 2.510 | 0.000 | |
| 8.966 | 3513 | 14090 | 4.011 | 0.000 | |
| 8.969 | 2829 | 14171 | 5.009 | 0.000 | |
| 8.973 | 4976 | 14233 | 2.860 | 0.000 | |
| 8.980 | 4289 | 14365 | 3.350 | 0.000 | |
| 8.996 | 27708 | 16441 | 0.593 | 0.004 | |
| 9.013 | 8129 | 14847 | 1.827 | 0.001 | |
| 9.025 | 8129 | 14840 | 1.826 | 0.001 | |
| 9.036 | 7503 | 15229 | 2.030 | 0.001 | |
| 9.040 | 4559 | 15225 | 3.340 | 0.000 | |
| 9.057 | 14920 | 16251 | 1.089 | 0.002 | |
| 9.067 | 9915 | 16831 | 1.698 | 0.001 | |
| 9.076 | 8535 | 17331 | 2.031 | 0.001 | |
| 9.081 | 5250 | 17596 | 3.352 | 0.000 | |
| 9.084 | 10558 | 17675 | 1.674 | 0.001 | |
| 9.095 | 4386 | 17601 | 4.013 | 0.000 | |
| 9.111 | 30564 | 19262 | 0.630 | 0.004 | |
| 9.128 | 8346 | 18722 | 2.243 | 0.001 | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|-------|-------|--------|---------|--------|--------------------|
| 9.139 | 15095 | 18986 | 1.258 | 0.002 | |
| 9.149 | 6655 | 19050 | 2.862 | 0.000 | |
| 9.158 | 23240 | 19719 | 0.848 | 0.003 | |
| 9.171 | 1903 | 19042 | 10.005 | 0.000 | |
| 9.175 | 4773 | 19156 | 4.013 | 0.000 | |
| 9.187 | 23630 | 19927 | 0.843 | 0.003 | |
| 9.199 | 4925 | 19763 | 4.013 | 0.000 | |
| 9.208 | 14115 | 20394 | 1.445 | 0.002 | |
| 9.219 | 12303 | 20691 | 1.682 | 0.001 | |
| 9.226 | 7266 | 20831 | 2.867 | 0.001 | |
| 9.233 | 15622 | 21000 | 1.344 | 0.002 | 14 C28 |
| 9.247 | 9280 | 20714 | 2.232 | 0.001 | |
| 9.262 | 45057 | 27849 | 0.618 | 0.006 | |
| 9.281 | 22651 | 23200 | 1.024 | 0.003 | |
| 9.304 | 13489 | 22820 | 1.692 | 0.001 | |
| 9.307 | 18038 | 22862 | 1.267 | 0.002 | |
| 9.328 | 8656 | 21778 | 2.516 | 0.001 | |
| 9.334 | 8635 | 21650 | 2.507 | 0.001 | |
| 9.343 | 16240 | 21738 | 1.339 | 0.002 | |
| 9.354 | 5409 | 21709 | 4.013 | 0.000 | |
| 9.367 | 16481 | 22234 | 1.349 | 0.002 | |
| 9.370 | 6683 | 22346 | 3.344 | 0.000 | |
| 9.382 | 14775 | 23166 | 1.568 | 0.002 | |
| 9.390 | 11679 | 23531 | 2.015 | 0.001 | |
| 9.394 | 12888 | 23584 | 1.830 | 0.001 | |
| 9.408 | 18752 | 23645 | 1.261 | 0.002 | |
| 9.416 | 4675 | 23396 | 5.004 | 0.000 | |
| 9.428 | 25138 | 24392 | 0.970 | 0.003 | |
| 9.438 | 20233 | 24095 | 1.191 | 0.002 | |
| 9.468 | 67429 | 26696 | 0.396 | 0.009 | |
| 9.496 | 8413 | 24122 | 2.867 | 0.001 | |
| 9.507 | 12049 | 24259 | 2.013 | 0.001 | |
| 9.527 | 36362 | 25771 | 0.709 | 0.005 | |
| 9.538 | 12891 | 25911 | 2.010 | 0.001 | |
| 9.543 | 6452 | 25853 | 4.007 | 0.000 | |
| 9.551 | 10420 | 26202 | 2.515 | 0.001 | |
| 9.557 | 29750 | 26593 | 0.894 | 0.004 | |
| 9.574 | 6252 | 25071 | 4.010 | 0.000 | |
| 9.593 | 29143 | 27655 | 0.949 | 0.004 | |
| 9.599 | 40783 | 27905 | 0.684 | 0.006 | |
| 9.620 | 13159 | 26364 | 2.004 | 0.001 | |
| 9.632 | 17259 | 26799 | 1.553 | 0.002 | |
| 9.640 | 13210 | 26592 | 2.013 | 0.001 | |
| 9.664 | 35362 | 28170 | 0.797 | 0.005 | |
| 9.672 | 27890 | 28134 | 1.009 | 0.004 | |
| 9.696 | 26737 | 28634 | 1.071 | 0.003 | |
| 9.711 | 53475 | 30848 | 0.577 | 0.007 | |
| 9.745 | 33266 | 29504 | 0.887 | 0.004 | \$ 15 Triacon Surr |
| 9.752 | 7348 | 29501 | 4.015 | 0.001 | |
| 9.756 | 20542 | 29565 | 1.439 | 0.003 | |
| 9.768 | 7255 | 29059 | 4.005 | 0.001 | |
| 9.773 | 7275 | 29173 | 4.010 | 0.001 | |
| 9.785 | 31543 | 30611 | 0.970 | 0.004 | |
| 9.803 | 46804 | 32832 | 0.701 | 0.006 | |
| 9.821 | 10456 | 30060 | 2.875 | 0.001 | |
| 9.833 | 30772 | 31156 | 1.012 | 0.004 | |
| 9.860 | 77784 | 33514 | 0.431 | 0.011 | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|--------|-------|--------|---------|--------|-----------|
| 9.881 | 12779 | 32069 | 2.510 | 0.001 | |
| 9.892 | 14531 | 32668 | 2.248 | 0.002 | |
| 9.896 | 8201 | 32902 | 4.012 | 0.001 | |
| 9.908 | 23357 | 33882 | 1.451 | 0.003 | |
| 9.912 | 27050 | 34095 | 1.260 | 0.003 | |
| 9.939 | 14585 | 32570 | 2.233 | 0.002 | |
| 9.951 | 23032 | 33095 | 1.437 | 0.003 | |
| 9.956 | 11596 | 33292 | 2.871 | 0.001 | |
| 9.966 | 16544 | 33271 | 2.011 | 0.002 | |
| 9.971 | 11660 | 33391 | 2.864 | 0.001 | |
| 9.975 | 10051 | 33617 | 3.345 | 0.001 | |
| 9.983 | 15209 | 33983 | 2.234 | 0.002 | |
| 9.988 | 15177 | 33830 | 2.229 | 0.002 | |
| 9.996 | 10128 | 33907 | 3.348 | 0.001 | |
| 10.018 | 43348 | 35629 | 0.822 | 0.006 | |
| 10.021 | 7133 | 35693 | 5.004 | 0.001 | |
| 10.025 | 8960 | 35988 | 4.016 | 0.001 | |
| 10.034 | 42064 | 36944 | 0.878 | 0.006 | |
| 10.063 | 65447 | 38699 | 0.591 | 0.009 | |
| 10.077 | 7375 | 36906 | 5.004 | 0.001 | |
| 10.083 | 16743 | 37428 | 2.235 | 0.002 | |
| 10.095 | 34467 | 38665 | 1.122 | 0.005 | |
| 10.118 | 90921 | 40621 | 0.447 | 0.013 | |
| 10.151 | 37738 | 38047 | 1.008 | 0.005 | |
| 10.158 | 11383 | 38037 | 3.342 | 0.001 | |
| 10.168 | 36074 | 38274 | 1.061 | 0.005 | |
| 10.181 | 15072 | 37809 | 2.509 | 0.002 | 16 C32 |
| 10.185 | 5655 | 37746 | 6.675 | 0.000 | |
| 10.198 | 43905 | 38471 | 0.876 | 0.006 | |
| 10.208 | 24771 | 38177 | 1.541 | 0.003 | |
| 10.218 | 19031 | 38113 | 2.003 | 0.002 | |
| 10.228 | 13353 | 38279 | 2.867 | 0.001 | |
| 10.237 | 21225 | 38826 | 1.829 | 0.003 | |
| 10.243 | 30946 | 38929 | 1.258 | 0.004 | |
| 10.266 | 43064 | 39733 | 0.923 | 0.006 | |
| 10.275 | 11912 | 39784 | 3.340 | 0.001 | |
| 10.278 | 19932 | 39886 | 2.001 | 0.002 | |
| 10.293 | 46366 | 40725 | 0.878 | 0.006 | |
| 10.318 | 46465 | 41024 | 0.883 | 0.006 | |
| 10.328 | 24720 | 41353 | 1.673 | 0.003 | |
| 10.334 | 10308 | 41278 | 4.005 | 0.001 | |
| 10.343 | 29100 | 41866 | 1.439 | 0.004 | |
| 10.354 | 22822 | 41695 | 1.827 | 0.003 | |
| 10.360 | 16568 | 41490 | 2.504 | 0.002 | |
| 10.376 | 31388 | 42321 | 1.348 | 0.004 | |
| 10.384 | 36478 | 43119 | 1.182 | 0.005 | |
| 10.393 | 21427 | 43144 | 2.014 | 0.003 | |
| 10.416 | 82339 | 44731 | 0.543 | 0.012 | |
| 10.434 | 23173 | 42257 | 1.824 | 0.003 | |
| 10.455 | 42801 | 43684 | 1.021 | 0.006 | |
| 10.459 | 19648 | 44004 | 2.240 | 0.002 | |
| 10.469 | 19632 | 43883 | 2.235 | 0.002 | |
| 10.492 | 56113 | 45807 | 0.816 | 0.008 | |
| 10.497 | 20626 | 45915 | 2.226 | 0.003 | |
| 10.503 | 27439 | 45837 | 1.671 | 0.004 | |
| 10.513 | 31833 | 45842 | 1.440 | 0.004 | |
| 10.523 | 6773 | 45190 | 6.672 | 0.001 | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|--------|--------|--------|---------|--------|-----------|
| 10.529 | 22697 | 45513 | 2.005 | 0.003 | |
| 10.543 | 39087 | 46432 | 1.188 | 0.005 | |
| 10.552 | 16284 | 46719 | 2.869 | 0.002 | |
| 10.558 | 18796 | 47158 | 2.509 | 0.002 | |
| 10.576 | 69878 | 48769 | 0.698 | 0.010 | |
| 10.586 | 12085 | 48384 | 4.004 | 0.001 | |
| 10.592 | 21757 | 48469 | 2.228 | 0.003 | |
| 10.609 | 46960 | 50482 | 1.075 | 0.006 | |
| 10.616 | 40486 | 50812 | 1.255 | 0.005 | 17 C34 |
| 10.628 | 52392 | 50284 | 0.960 | 0.007 | |
| 10.665 | 99744 | 52644 | 0.528 | 0.014 | |
| 10.680 | 20832 | 52264 | 2.509 | 0.003 | |
| 10.699 | 126137 | 55939 | 0.443 | 0.018 | |
| 10.723 | 18258 | 52316 | 2.865 | 0.002 | |
| 10.733 | 65550 | 52928 | 0.807 | 0.009 | |
| 10.751 | 49102 | 51903 | 1.057 | 0.007 | |
| 10.765 | 10288 | 51490 | 5.005 | 0.001 | |
| 10.777 | 73220 | 52877 | 0.722 | 0.010 | |
| 10.791 | 15621 | 52150 | 3.338 | 0.002 | |
| 10.799 | 46819 | 52190 | 1.115 | 0.006 | |
| 10.817 | 52000 | 52328 | 1.006 | 0.007 | |
| 10.828 | 13014 | 52167 | 4.008 | 0.001 | |
| 10.833 | 18275 | 52280 | 2.861 | 0.002 | |
| 10.838 | 67284 | 52271 | 0.777 | 0.009 | |
| 10.860 | 15395 | 51401 | 3.339 | 0.002 | |
| 10.867 | 15366 | 51252 | 3.335 | 0.002 | |
| 10.874 | 25712 | 51608 | 2.007 | 0.003 | |
| 10.885 | 59363 | 52064 | 0.877 | 0.008 | |
| 10.901 | 33199 | 51247 | 1.544 | 0.004 | |
| 10.911 | 35859 | 51446 | 1.435 | 0.005 | |
| 10.925 | 15150 | 50526 | 3.335 | 0.002 | |
| 10.936 | 27761 | 50508 | 1.819 | 0.004 | |
| 10.954 | 40634 | 51235 | 1.261 | 0.005 | |
| 10.958 | 17973 | 51428 | 2.861 | 0.002 | |
| 10.982 | 101216 | 54997 | 0.543 | 0.014 | |
| 10.999 | 80380 | 54264 | 0.675 | 0.011 | |
| 11.022 | 15822 | 52869 | 3.342 | 0.002 | |
| 11.029 | 23878 | 53171 | 2.227 | 0.003 | |
| 11.032 | 23908 | 53219 | 2.226 | 0.003 | |
| 11.044 | 39793 | 53228 | 1.338 | 0.005 | |
| 11.053 | 13218 | 52959 | 4.007 | 0.001 | 19 C36 |
| 11.057 | 26491 | 53088 | 2.004 | 0.003 | |
| 11.069 | 47933 | 53454 | 1.115 | 0.007 | |
| 11.079 | 78088 | 52997 | 0.679 | 0.011 | |
| 11.132 | 4853 | 48537 | 10.002 | 0.000 | |
| 11.138 | 21933 | 48845 | 2.227 | 0.003 | |
| 11.148 | 46678 | 49317 | 1.057 | 0.006 | |
| 11.158 | 12248 | 49060 | 4.006 | 0.001 | |
| 11.164 | 14711 | 49102 | 3.338 | 0.002 | |
| 11.179 | 64473 | 49939 | 0.775 | 0.009 | |
| 11.192 | 19751 | 49439 | 2.503 | 0.002 | |
| 11.197 | 14848 | 49541 | 3.337 | 0.002 | |
| 11.202 | 17336 | 49566 | 2.859 | 0.002 | |
| 11.206 | 12400 | 49639 | 4.003 | 0.001 | |
| 11.212 | 56808 | 49881 | 0.878 | 0.008 | |
| 11.230 | 26830 | 48794 | 1.819 | 0.003 | |
| 11.263 | 19014 | 47590 | 2.503 | 0.002 | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|--------|-------|--------|---------|--------|-----------|
| 11.267 | 11927 | 47790 | 4.007 | 0.001 | |
| 11.285 | 66432 | 50042 | 0.753 | 0.009 | |
| 11.308 | 17214 | 49235 | 2.860 | 0.002 | |
| 11.312 | 19684 | 49285 | 2.504 | 0.002 | |
| 11.322 | 19740 | 49570 | 2.511 | 0.002 | |
| 11.331 | 27467 | 50208 | 1.828 | 0.004 | |
| 11.334 | 12565 | 50301 | 4.003 | 0.001 | |
| 11.338 | 17617 | 50367 | 2.859 | 0.002 | |
| 11.356 | 50450 | 50688 | 1.005 | 0.007 | |
| 11.383 | 31641 | 48774 | 1.541 | 0.004 | |
| 11.392 | 14562 | 48589 | 3.337 | 0.002 | |
| 11.398 | 14566 | 48593 | 3.336 | 0.002 | |
| 11.405 | 21947 | 48858 | 2.226 | 0.003 | |
| 11.418 | 36961 | 49602 | 1.342 | 0.005 | |
| 11.428 | 52174 | 49838 | 0.955 | 0.007 | |
| 11.438 | 46900 | 49605 | 1.058 | 0.006 | |
| 11.456 | 66003 | 49218 | 0.746 | 0.009 | |
| 11.481 | 84312 | 48818 | 0.579 | 0.012 | |
| 11.518 | 39837 | 46996 | 1.180 | 0.005 | |
| 11.533 | 55836 | 46822 | 0.839 | 0.008 | 20 C38 |
| 11.560 | 30101 | 46465 | 1.544 | 0.004 | |
| 11.568 | 20916 | 46512 | 2.224 | 0.003 | |
| 11.573 | 11637 | 46596 | 4.004 | 0.001 | |
| 11.579 | 23274 | 46598 | 2.002 | 0.003 | |
| 11.586 | 13953 | 46531 | 3.335 | 0.002 | |
| 11.591 | 9318 | 46631 | 5.004 | 0.001 | |
| 11.623 | 97892 | 48831 | 0.499 | 0.014 | |
| 11.631 | 17107 | 48984 | 2.863 | 0.002 | |
| 11.638 | 22090 | 49260 | 2.230 | 0.003 | |
| 11.642 | 32050 | 49351 | 1.540 | 0.004 | |
| 11.669 | 95446 | 50981 | 0.534 | 0.014 | |
| 11.685 | 95822 | 49865 | 0.520 | 0.014 | |
| 11.788 | 8918 | 44609 | 5.002 | 0.001 | |
| 11.791 | 35704 | 44768 | 1.254 | 0.005 | |
| 11.804 | 11082 | 44350 | 4.002 | 0.001 | |
| 11.813 | 22172 | 44403 | 2.003 | 0.003 | |
| 11.823 | 19993 | 44543 | 2.228 | 0.002 | |
| 11.829 | 13395 | 44754 | 3.341 | 0.001 | |
| 11.837 | 20184 | 44981 | 2.228 | 0.002 | |
| 11.852 | 26933 | 44942 | 1.669 | 0.003 | |
| 11.866 | 36041 | 45224 | 1.255 | 0.005 | |
| 11.877 | 15835 | 45355 | 2.864 | 0.002 | |
| 11.883 | 18222 | 45726 | 2.509 | 0.002 | |
| 11.889 | 15985 | 45741 | 2.861 | 0.002 | |
| 11.896 | 20679 | 46117 | 2.230 | 0.003 | |
| 11.905 | 23259 | 46896 | 2.016 | 0.003 | |
| 11.929 | 70146 | 49826 | 0.710 | 0.010 | |
| 11.936 | 52288 | 50085 | 0.958 | 0.007 | |
| 11.951 | 14787 | 49369 | 3.339 | 0.002 | |
| 11.957 | 17313 | 49595 | 2.865 | 0.002 | |
| 11.961 | 32199 | 49647 | 1.542 | 0.004 | |
| 11.971 | 19578 | 49063 | 2.506 | 0.002 | |
| 11.980 | 34244 | 49065 | 1.433 | 0.005 | |
| 12.019 | 96987 | 51133 | 0.527 | 0.014 | |
| 12.025 | 48685 | 51499 | 1.058 | 0.007 | |
| 12.053 | 38386 | 51386 | 1.339 | 0.005 | |
| 12.062 | 38575 | 51549 | 1.336 | 0.005 | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|--------|--------|--------|---------|--------|-----------|
| 12.070 | 17923 | 51300 | 2.862 | 0.002 | |
| 12.078 | 45780 | 51141 | 1.117 | 0.006 | |
| 12.105 | 31495 | 48817 | 1.550 | 0.004 | |
| 12.118 | 85510 | 48295 | 0.565 | 0.012 | |
| 12.148 | 55474 | 46657 | 0.841 | 0.008 | 21 C40 |
| 12.172 | 34299 | 45899 | 1.338 | 0.005 | |
| 12.181 | 18286 | 45754 | 2.502 | 0.002 | |
| 12.188 | 20565 | 45727 | 2.223 | 0.003 | |
| 12.198 | 29701 | 45787 | 1.542 | 0.004 | |
| 12.212 | 11377 | 45530 | 4.002 | 0.001 | |
| 12.218 | 29576 | 45566 | 1.541 | 0.004 | |
| 12.237 | 41054 | 45750 | 1.114 | 0.006 | |
| 12.243 | 13695 | 45701 | 3.337 | 0.002 | |
| 12.253 | 27528 | 46122 | 1.675 | 0.004 | |
| 12.260 | 16149 | 46201 | 2.861 | 0.002 | |
| 12.272 | 32473 | 46571 | 1.434 | 0.004 | |
| 12.347 | 231342 | 54259 | 0.235 | 0.034 | |
| 12.355 | 96470 | 54322 | 0.563 | 0.014 | |
| 12.383 | 13155 | 52687 | 4.005 | 0.001 | |
| 12.389 | 52817 | 52930 | 1.002 | 0.007 | |
| 12.434 | 117936 | 55204 | 0.468 | 0.017 | |
| 12.440 | 19323 | 55283 | 2.861 | 0.002 | |
| 12.448 | 22049 | 55156 | 2.502 | 0.003 | |
| 12.460 | 127044 | 56114 | 0.442 | 0.018 | |
| 12.500 | 63536 | 55700 | 0.877 | 0.009 | |
| 12.519 | 44746 | 56237 | 1.257 | 0.006 | |
| 12.523 | 16928 | 56556 | 3.341 | 0.002 | |
| 12.528 | 14154 | 56666 | 4.003 | 0.002 | |
| 12.532 | 14154 | 56644 | 4.002 | 0.002 | |
| 12.538 | 25607 | 57089 | 2.229 | 0.003 | |
| 12.543 | 31284 | 57010 | 1.822 | 0.004 | |
| 12.560 | 76588 | 57084 | 0.745 | 0.011 | |
| 12.574 | 22463 | 56167 | 2.500 | 0.003 | |
| 12.583 | 192414 | 56305 | 0.293 | 0.028 | |
| 12.668 | 201456 | 54098 | 0.269 | 0.029 | |
| 12.722 | 63529 | 49368 | 0.777 | 0.009 | |
| 12.744 | 14574 | 48683 | 3.340 | 0.002 | |
| 12.757 | 68233 | 49046 | 0.719 | 0.010 | |
| 12.777 | 29106 | 48653 | 1.672 | 0.004 | |
| 12.802 | 69072 | 49884 | 0.722 | 0.010 | |
| 12.805 | 19947 | 49915 | 2.502 | 0.002 | |
| 12.813 | 12457 | 49907 | 4.006 | 0.001 | |
| 12.826 | 42860 | 50672 | 1.182 | 0.006 | |
| 12.830 | 15192 | 50711 | 3.338 | 0.002 | |
| 12.835 | 63121 | 50727 | 0.804 | 0.009 | |
| 12.856 | 30109 | 50299 | 1.671 | 0.004 | |
| 12.871 | 12459 | 49875 | 4.003 | 0.001 | |
| 12.876 | 24950 | 49913 | 2.001 | 0.003 | |
| 12.883 | 12458 | 49860 | 4.002 | 0.001 | |
| 12.892 | 24999 | 50091 | 2.004 | 0.003 | |
| 12.904 | 37682 | 50442 | 1.339 | 0.005 | |
| 12.918 | 60965 | 51059 | 0.838 | 0.009 | |
| 12.929 | 15268 | 50972 | 3.338 | 0.002 | |
| 12.950 | 101236 | 52476 | 0.518 | 0.014 | |
| 12.991 | 32619 | 50285 | 1.542 | 0.004 | |
| 13.030 | 23826 | 47690 | 2.002 | 0.003 | |
| 13.047 | 49429 | 47410 | 0.959 | 0.007 | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|--------|--------|--------|---------|--------|-----------|
| 13.072 | 11668 | 46709 | 4.003 | 0.001 | |
| 13.077 | 14056 | 46964 | 3.341 | 0.002 | |
| 13.083 | 21201 | 47214 | 2.227 | 0.003 | |
| 13.092 | 45034 | 47490 | 1.055 | 0.006 | |
| 13.103 | 33139 | 47401 | 1.430 | 0.004 | |
| 13.119 | 58622 | 47300 | 0.807 | 0.008 | |
| 13.136 | 61979 | 46406 | 0.749 | 0.009 | |
| 13.163 | 36232 | 45399 | 1.253 | 0.005 | |
| 13.172 | 13552 | 45219 | 3.337 | 0.002 | |
| 13.178 | 13550 | 45211 | 3.337 | 0.002 | |
| 13.183 | 13581 | 45318 | 3.337 | 0.002 | |
| 13.188 | 15867 | 45365 | 2.859 | 0.002 | |
| 13.193 | 11350 | 45433 | 4.003 | 0.001 | |
| 13.206 | 54879 | 45909 | 0.837 | 0.008 | |
| 13.233 | 74220 | 46899 | 0.632 | 0.010 | |
| 13.246 | 18724 | 46923 | 2.506 | 0.002 | |
| 13.250 | 14089 | 47028 | 3.338 | 0.002 | |
| 13.254 | 9392 | 46999 | 5.004 | 0.001 | |
| 13.261 | 35241 | 47103 | 1.337 | 0.005 | |
| 13.270 | 21093 | 46884 | 2.223 | 0.003 | |
| 13.278 | 16404 | 46889 | 2.858 | 0.002 | |
| 13.284 | 28108 | 46937 | 1.670 | 0.004 | |
| 13.309 | 27777 | 46575 | 1.677 | 0.004 | |
| 13.313 | 11643 | 46617 | 4.004 | 0.001 | |
| 13.323 | 30391 | 46938 | 1.544 | 0.004 | |
| 13.337 | 49696 | 47554 | 0.957 | 0.007 | |
| 13.345 | 11906 | 47686 | 4.005 | 0.001 | |
| 13.352 | 21499 | 47921 | 2.229 | 0.003 | |
| 13.358 | 14416 | 48133 | 3.339 | 0.002 | |
| 13.366 | 24163 | 48487 | 2.007 | 0.003 | |
| 13.391 | 108474 | 49842 | 0.459 | 0.016 | |
| 13.411 | 39818 | 49922 | 1.254 | 0.005 | |
| 13.421 | 140245 | 49882 | 0.356 | 0.020 | |
| 13.468 | 75433 | 46221 | 0.613 | 0.011 | |
| 13.519 | 59701 | 44435 | 0.744 | 0.008 | |
| 13.538 | 26345 | 44021 | 1.671 | 0.003 | |
| 13.553 | 17475 | 43727 | 2.502 | 0.002 | |
| 13.559 | 19699 | 43828 | 2.225 | 0.002 | |
| 13.566 | 15324 | 43832 | 2.860 | 0.002 | |
| 13.574 | 28519 | 43956 | 1.541 | 0.004 | |
| 13.585 | 21950 | 43943 | 2.002 | 0.003 | |
| 13.595 | 26497 | 44341 | 1.673 | 0.003 | |
| 13.603 | 22230 | 44574 | 2.005 | 0.003 | |
| 13.608 | 11135 | 44585 | 4.004 | 0.001 | |
| 13.633 | 100703 | 46371 | 0.460 | 0.014 | |
| 13.650 | 25255 | 45974 | 1.820 | 0.003 | |
| 13.663 | 20511 | 45675 | 2.227 | 0.003 | |
| 13.670 | 15945 | 45584 | 2.859 | 0.002 | |
| 13.677 | 40973 | 45642 | 1.114 | 0.006 | |
| 13.688 | 4544 | 45448 | 10.002 | 0.000 | |
| 13.693 | 29520 | 45508 | 1.542 | 0.004 | |
| 13.718 | 24720 | 44995 | 1.820 | 0.003 | |
| 13.727 | 11216 | 44890 | 4.002 | 0.001 | |
| 13.735 | 29185 | 45025 | 1.543 | 0.004 | |
| 13.752 | 17874 | 44782 | 2.505 | 0.002 | |
| 13.767 | 35874 | 45020 | 1.255 | 0.005 | |
| 13.775 | 36036 | 45104 | 1.252 | 0.005 | |

| RT | AREA | HEIGHT | HT/AREA | % AREA | COMPOUNDS |
|--------------------|--------------------|------------------|---------|--------|----------------|
| 13.785 | 11226 | 44939 | 4.003 | 0.001 | |
| 13.790 | 47016 | 44953 | 0.956 | 0.006 | |
| 13.813 | 11118 | 44516 | 4.004 | 0.001 | |
| 13.818 | 37641 | 44507 | 1.182 | 0.005 | |
| 13.832 | 15424 | 44192 | 2.865 | 0.002 | |
| 13.838 | 17564 | 43967 | 2.503 | 0.002 | |
| 13.844 | 26339 | 43892 | 1.666 | 0.003 | |
| 13.855 | 30567 | 43821 | 1.434 | 0.004 | |
| 13.865 | 23854 | 43526 | 1.825 | 0.003 | |
| 13.882 | 28266 | 43639 | 1.544 | 0.004 | |
| 13.886 | 30418 | 43629 | 1.434 | 0.004 | |
| 13.901 | 34702 | 43472 | 1.253 | 0.005 | |
| 13.920 | 48162 | 44005 | 0.914 | 0.007 | |
| 13.928 | 17577 | 43956 | 2.501 | 0.002 | |
| 13.941 | 15410 | 44084 | 2.861 | 0.002 | |
| 13.946 | 11045 | 44251 | 4.006 | 0.001 | |
| 13.949 | 24369 | 44341 | 1.820 | 0.003 | |
| 13.959 | 22103 | 44264 | 2.003 | 0.003 | |
| 13.967 | 22088 | 44195 | 2.001 | 0.003 | |
| 13.976 | 33207 | 44336 | 1.335 | 0.004 | 18 Filter Peak |
| 13.998 | 24195 | 44018 | 1.819 | 0.003 | |
| 14.007 | 15335 | 43888 | 2.862 | 0.002 | |
| 14.014 | 17519 | 43863 | 2.504 | 0.002 | |
| 14.019 | 54335 | 43870 | 0.807 | 0.008 | |
| 14.046 | 10722 | 42915 | 4.003 | 0.001 | |
| 14.052 | 19305 | 42955 | 2.225 | 0.002 | |
| 14.058 | 8568 | 42864 | 5.003 | 0.001 | |
| 14.067 | 38739 | 43159 | 1.114 | 0.005 | |
| 14.077 | 15012 | 42931 | 2.860 | 0.002 | |
| 14.083 | 25753 | 42977 | 1.669 | 0.003 | |
| 14.102 | 25682 | 42913 | 1.671 | 0.003 | |
| 14.108 | 19267 | 42865 | 2.225 | 0.002 | |
| 14.116 | 12834 | 42815 | 3.336 | 0.001 | |
| 14.126 | 25874 | 43369 | 1.676 | 0.003 | |
| 14.133 | 56339 | 43595 | 0.774 | 0.008 | |
| 14.161 | 32503 | 43582 | 1.341 | 0.004 | |
| 14.165 | 10909 | 43696 | 4.006 | 0.001 | |
| 14.170 | 15313 | 43822 | 2.862 | 0.002 | |
| 14.175 | 10960 | 43911 | 4.007 | 0.001 | |
| 14.178 | 13176 | 43945 | 3.335 | 0.001 | |
| 14.183 | 19785 | 43976 | 2.223 | 0.002 | |
| 14.191 | 8796 | 44018 | 5.005 | 0.001 | |
| 14.197 | 17636 | 44177 | 2.505 | 0.002 | |
| 14.208 | 28815 | 44459 | 1.543 | 0.004 | |
| 14.219 | 8873 | 44379 | 5.002 | 0.001 | |
| 14.223 | 13318 | 44445 | 3.337 | 0.001 | |
| 14.229 | 28860 | 44456 | 1.540 | 0.004 | |
| 14.247 | 15436 | 44194 | 2.863 | 0.002 | |
| 14.260 | 37147 | 43758 | 1.178 | 0.005 | |
| 14.274 | 45685 | 43705 | 0.957 | 0.006 | |
| ===== 677340272 | ===== 268782821 | ===== 100.000 | | | |

Total unknown % area = 25.478

Certificate of Composition - Analytical Standard

ACID STOCK

Product no.: 22523046
Lot no.: LRAC9812
Expiry Date: May 2023
Manufacturing Date: May 2021
Storage: Refrigerate
Solvent/Matrix: Dichloromethane
Certificate version: LRAC9812.01 (Note: Certificates may be updated due to the availability of new data. Check our website at: www.sigma-aldrich.com for the most current version.)

J005200
 SVOA-ABN ACID STOCK-200-800ug/ml
 Solvent / Lot: DCM
 Prep: 5/18/2021 by JZ
 Exp: 5/31/2023
 Location:

 5/18/21

| Analyte | Assigned Value | Units | Raw Material Purity, % | Raw Material Lot |
|---|----------------|-------|------------------------|------------------|
| 2,4-DIMETHYLPHENOL CAS# 105-67-9 | 802 | µg/mL | 99.9 | LB88935 |
| 2,4-DICHLOROPHENOL CAS# 120-83-2 | 802 | µg/mL | 100.0 | BCBZ6787 |
| 2,4,5-TRICHLOROPHENOL CAS# 95-95-4 | 802 | µg/mL | 99.9 | JS00008 |
| 2,4-DINITROPHENOL CAS# 51-28-5 | 1806 | µg/mL | 75.9 | MKBP5833V |
| 2,4,6-TRICHLOROPHENOL CAS# 88-06-2 | 803 | µg/mL | 98.7 | LB82983 |
| 4-CHLORO-3-METHYLPHENOL CAS# 59-50-7 | 801 | µg/mL | 99.9 | JS00013 |
| 4-NITROPHENOL CAS# 100-02-7 | 801 | µg/mL | 99.9 | LC10889 |
| 2-METHYL-4,6-DINITROPHENOL CAS# 534-52-1 | 1804 | µg/mL | 99.7 | LC18338 |
| PENTACHLOROPHENOL CAS# 87-86-5 | 803 | µg/mL | 98.7 | MKCK8156 |
| BENZOIC ACID CAS# 65-85-0 | 1805 | µg/mL | 99.9 | LC16514 |

Measurement method: Where applicable, the assigned value is based on a purity determination by mass balance and gravimetrically prepared value.

Intended use: Intended for R&D and Analytical Use only. Not for drug, household or other uses.

Packaging: 1 mL in amber ampule

Instructions for handling and correct use: Use on the as is basis. The internal pressure of the container may be slightly different from the atmospheric pressure at the user's location. Open slowly and carefully to avoid dispersion of the material.

Health and safety information: All chemical reference materials should be considered potentially hazardous and should be used only by qualified laboratory personnel. Please refer to the Safety Data Sheet for detailed information about the nature of any hazard and appropriate precautions to be taken.



Certificate of Analysis

J008074

 SVOA PAH STD 2000ug/ml
 Expires 6/30/2023
 Prepared By Joshua Rains 8/5/2021

Product Name: PAH Standard

Product Number: US-106N-1

Lot Issue Date: 11-Jun-2020

Lot Number: 0006540449

Expiration Date: 30-Jun-2023

Description:

This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system, and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

| Analyte | CAS# | Analyte Lot | Concentration ± Uncertainty |
|------------------------|-------------|-------------|-----------------------------|
| acenaphthene | 000083-32-9 | RM10879 | 2008 ± 10 µg/mL |
| acenaphthylene | 000208-96-8 | RM10891 | 2003 ± 10 µg/mL |
| anthracene | 000120-12-7 | RM14212 | 2006 ± 10 µg/mL |
| benz[a]anthracene | 000056-55-3 | RM16072 | 2006 ± 10 µg/mL |
| benzo[b]fluoranthene | 000205-99-2 | RM14571 | 2005 ± 10 µg/mL |
| benzo[k]fluoranthene | 000207-08-9 | RM14321 | 2009 ± 10 µg/mL |
| benzo[ghi]perylene | 000191-24-2 | RM15761 | 2008 ± 10 µg/mL |
| benzo[a]pyrene | 000050-32-8 | RM12669 | 2009 ± 10 µg/mL |
| chrysene | 000218-01-9 | RM12260 | 2009 ± 10 µg/mL |
| dibenz[a,h]anthracene | 000053-70-3 | RM06786 | 2009 ± 10 µg/mL |
| fluoranthene | 000206-44-0 | RM12277 | 2004 ± 10 µg/mL |
| fluorene | 000086-73-7 | RM09441 | 2009 ± 10 µg/mL |
| indeno[1,2,3-cd]pyrene | 000193-39-5 | RM14192 | 2009 ± 10 µg/mL |
| naphthalene | 000091-20-3 | NT00970 | 2008 ± 10 µg/mL |
| phenanthrene | 000085-01-8 | RM10495 | 2009 ± 10 µg/mL |
| pyrene | 000129-00-0 | RM03479 | 2008 ± 10 µg/mL |

Matrix: methylene chloride/benzene (1:1)

Certificate of Analysis

Product Number: US-106N-1

Lot Number: 0006540449

Storage Conditions: Store at Room Temperature (15° to 30°C).

Traceability:

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:

This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Intended Use:

This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Instructions for Use:

Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Hazards:

Refer to the Safety Data Sheet on www.agilent.com for information regarding this RM.

Expiration of Certification:

The certification of this RM is valid until the expiration date specified above, provided the RM is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the RM is damaged, contaminated, or otherwise modified.

Maintenance of Certification:

If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:



Monica Bourgeois
QMS Representative



ISO 17034 Cert No.
AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026

Page: 2 of 2

www.agilent.com/quality/



ISO 17025 Cert
No. AT-1937

Certificate of Analysis

Produced by Phenova

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Access your Safety Data Sheets and digital Certificates at www.phenova.com/documents.

Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101244

Lot Number: CL16062

Description: Benzidines Standard

Certification Date: November 19, 2020

Storage: 4 °C

Expiration Date: November 30, 2030

Provided As: 1 mL in 2 mL Ampoule in Methylene Chloride



Andrea Gill, Certified Reference Materials Manager

| Component | CAS # | Certified Value µg/mL | Expanded Uncertainty |
|------------------------|---------|--------------------------|----------------------|
| Benzidine | 92-87-5 | 2000 | ± 2.740% |
| 3,3'-Dichlorobenzidine | 91-94-1 | 2000 | ± 3.229% |

J008310

Benzidines std @2000ug/ml
Expires 11/30/2030
Prepared By Van Spohn 8/12/2021

Certificate of Analysis

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1. Quality Document: This Certificate of Analysis has been created in accordance with ISO Guide 31¹ and ISO Guide 35.²
2. Quality Standards: Phenova is accredited by A2LA to ISO 17034³ and ISO/IEC 17025⁴ as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.
3. Intended Use: The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.
4. Handling and Usage Notes: Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.
5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.
6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.
7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.
8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.
9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98⁵ and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.
11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.
12. Period of Validity: The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

¹ ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.

² ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.

³ ISO 17034 – General Requirements for the Competence of Reference Material Producers.

⁴ ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.

⁵ ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)



Reference Material Producer
Certificate No. 2427.02



Phenova is an accredited ISO/IEC 17034 Reference Material
Producer and ISO/IEC 17025 accredited Chemical Testing Laboratory.

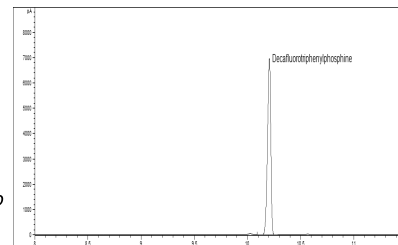


Chemical Testing Laboratory
Certificate No. 2427.03

Certificate of Analysis - Certified Reference Material

Decafluorotriphenylphosphine solution

Product no.: 48724-U
Lot no.: LRAD0628
Expiry Date: October 2024
Manufacturing Date: September 2021
Storage: ROOM TEMPERATURE
Solvent/Matrix: DICHLOROMETHANE
Certificate version: LRAD0628.01 (Note: Certificates may be updated due to the availability of new data. Check our website at: www.sigma-aldrich.com for the most current version.)



Certified Values:

| Analyte | Certified Value | Units | Raw Material Purity, % | Raw Material Lot |
|-------------------------|-----------------|-------|------------------------|------------------|
| DFTPP CAS# 5074-71-5 | 25.2 ± 2.6 | mg/mL | 97.0 | 10220909 |

ASSAY Method

METHOD: GC (BELLEFONTE)

Column: SPB-5, 30 m × 0.53 mm I.D., 1.5 µm film thickness

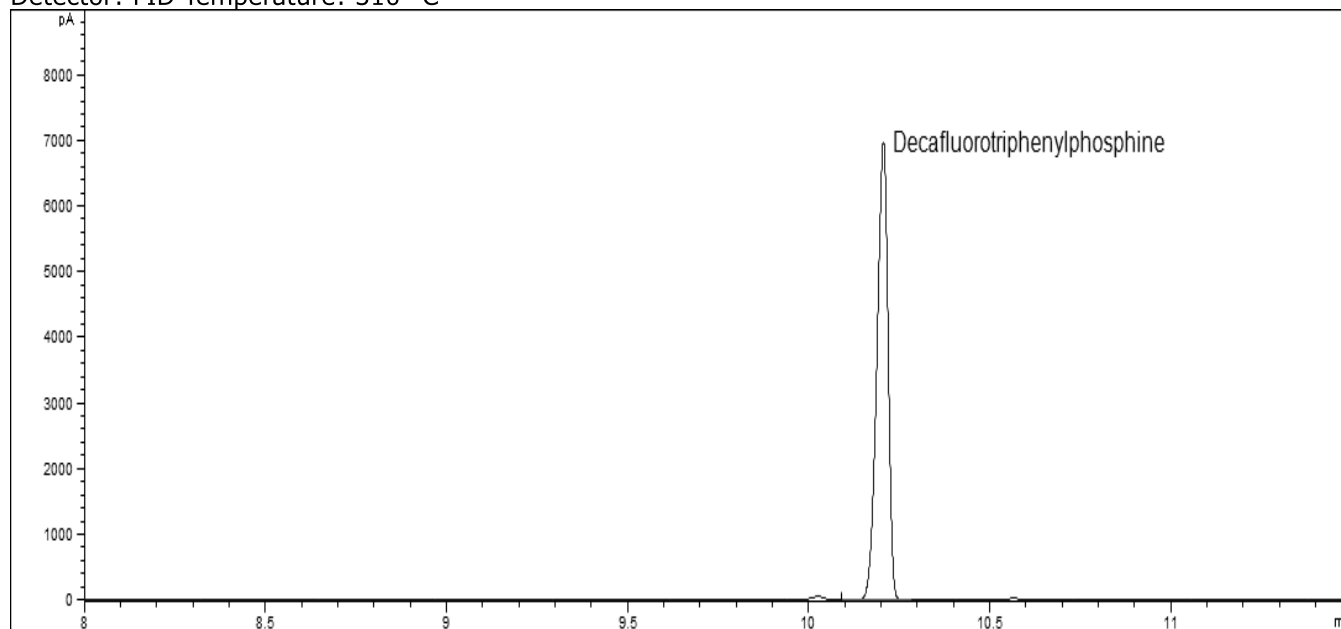
Carrier Gas: H₂ Flow Rate: 4.3 mL/min

Inlet Temperature: 250 °C Injection Volume: 1 µL

Injection Mode: 25:1

Temperature Program: 120 °C (Hold 0 min) @ 12 °C/min to 260 °C (Hold 0 min)

Detector: FID Temperature: 310 °C



Elution details:

| EO | RT(MIN) | ANALYTE |
|----|---------|------------------------------|
| 1 | 10.206 | Decafluorotriphenylphosphine |

Metrological traceability: Traceable to the SI and higher order standards from NIST through an unbroken chain of comparisons. The balance used to weigh raw materials is accurate to +/-0.0001 g and calibrated regularly using mass standards traceable to NIST. All dilutions were performed gravimetrically. Additionally, individual analytes are traceable to NIST SRMs where available and specified above.

Measurement method: Where applicable, the assigned value is based on a purity determination by mass balance and gravimetrically prepared value.

Intended use: Intended for R&D and Analytical Use only. Not for drug, household or other uses.

Minimum sample size: 1 µL

Packaging: 1 mL in amber ampule

Instructions for handling and correct use: Use on the as is basis. The internal pressure of the container may be slightly different from the atmospheric pressure at the user`s location. Open slowly and carefully to avoid dispersion of the material.

Health and safety information: All chemical reference materials should be considered potentially hazardous and should be used only by qualified laboratory personnel. Please refer to the Safety Data Sheet for detailed information about the nature of any hazard and appropriate precautions to be taken.

Accreditation: Sigma-Aldrich RTC is accredited by the US accreditation authority ANAB as a registered reference material producer AR-1470 in accordance with ISO 17034.

Certificate issue date: 30-Sep-2021



Andy Ommen - QC Manager

Scott Stetler - QA Manager

Details on metrological traceability: This standard has been gravimetrically prepared using balances that have been fully qualified and calibrated to ISO 17025 requirements. All calibrations utilize NIST traceable weights which are calibrated externally by a qualified ISO 17025 accredited calibration laboratory to NIST standards. Qualification of each balance includes the assignment of a minimum weighing by a qualified and ISO 17025 accredited calibration vendor taking into consideration the balance and installed environmental conditions to ensure compliance with USP tolerances of NMT 0.10% relative error. Fill volume to predetermined specifications is gravimetrically verified throughout the dispensing process using qualified and calibrated balances. Further traceability to a corresponding Primary Standard may be achieved through a direct comparison assay. Where a Primary Standard is available, the assay value will be included in the specified section of the COA.

Associated uncertainty: Ucrm - Uncertainty values in this document are expressed as Expanded Uncertainty (Ucrm) corresponding to the 95% confidence interval. Ucrm is derived from the combined standard uncertainty multiplied by the coverage factor k, which is obtained from a t-distribution and degrees of freedom. The components of combined standard uncertainty include the uncertainties due to characterization, homogeneity, long term stability, and short term stability (transport). The components due to stability are generally considered to be negligible unless otherwise indicated by stability studies. The mathematical representation of the Ucrm calculation is as follows:

$$u_{CRM} = \sqrt{u_{char}^2 + u_{homogeneity}^2 + u_{stability}^2}$$

Homogeneity assessment: Homogeneity was assessed in accordance with ISO Guide 35. Completed units were sampled using a random stratified sampling protocol. The results of chemical analysis were then compared by Single Factor Analysis of Variance (ANOVA). The uncertainty due to homogeneity was derived from the ANOVA. Heterogeneity was not detected under the conditions of the ANOVA.

Stability assessment:

Significance of the stability assessment will be demonstrated if the analytical result of the study and the range of values represented by the Expanded Uncertainty do not overlap the result of the original assay and the range of its values represented by the Expanded Uncertainty. The method employed will usually be the same method used to characterize the assay value in the initial

Certificate of analysis revision history:

| Certificate version | Date | Reason for version |
|----------------------------|-------------|---------------------------|
| LRAD0628.01 | 30-Sep-2021 | Original Release Date |

Disclaimer: The purchaser is required to determine the suitability of this product for any particular application. Sigma-Aldrich RTC makes no warranty of any kind, express or implied, other than its products meet all quality control standards set by Sigma-Aldrich RTC. We do not guarantee that the product can be used for any particular application.

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The life science business of Merck KGaA, Darmstadt, Germany
operates as MilliporeSigma in the US and Canada.



Certificate of Analysis

BNAs - Sandy Loam 1

*Certified
Reference
Material*

Description

Product ID CRM143-50G
Lot LRAC8918
Expiration Date January 2024
Manufacturing Date January 2021
Storage Conditions Refrigerate
Solvent/Matrix SOIL

Certified Values

| Analyte | Units | Certified ^{1,4} Value |
|--|-------|-----------------------------------|
| 1,2,4-Trichlorobenzene | µg/Kg | 1477 ± 181 |
| 1,3-Dichlorobenzene (m-Dichlorobenzene) | µg/Kg | 1625 ± 292 |
| 1-Chloronaphthalene | µg/Kg | 2809 ± 84 |
| 2,3-Dimethylphenol | µg/Kg | 4552 ± 137 |
| 2,4,5-Trichlorophenol | µg/Kg | 3438 ± 245 |
| 2,4,6-Trichlorophenol | µg/Kg | 2194 ± 251 |
| 2,4-Dichlorophenol | µg/Kg | 6991 ± 394 |
| 2,4-Dimethylphenol | µg/Kg | 6357 ± 879 |
| 2,4-Dinitrophenol | µg/Kg | 2922 ± 523 |
| 2,4-Dinitrotoluene (2,4-DNT) | µg/Kg | 3318 ± 442 |
| 2,6-Dichlorophenol | µg/Kg | 4578 ± 874 |
| 2,6-Dimethylphenol | µg/Kg | 7582 ± 228 |
| 2-Chloronaphthalene | µg/Kg | 2223 ± 168 |
| 2-Chlorophenol | µg/Kg | 1678 ± 202 |
| 2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol) | µg/Kg | 5148 ± 685 |
| 2-Methylphenol (o-Cresol) | µg/Kg | 6004 ± 573 |
| 2-Nitrophenol | µg/Kg | 6456 ± 383 |
| 3,4-Dimethylphenol | µg/Kg | 7185 ± 216 |
| 3+4-Methylphenol (m+p-Cresol) | µg/Kg | 8033 ± 1613 |
| 4-Bromophenyl phenyl ether (BDE-3) | µg/Kg | 7169 ± 310 |
| 4-Chloro-3-methylphenol | µg/Kg | 2071 ± 110 |
| 4-Chlorophenyl phenylether | µg/Kg | 2052 ± 113 |
| 4-Methylphenol (p-Cresol) | µg/Kg | 6617 ± 1371 |
| 4-Nitrophenol | µg/Kg | 6812 ± 595 |
| Acenaphthene | µg/Kg | 5489 ± 380 |



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Description

Lot **LRAC8918**
Expiration Date January 2024
Manufacturing Date January 2021
Storage Conditions Refrigerate
Solvent/Matrix SOIL

| | | |
|--|-------|------------|
| Acenaphthylene | µg/Kg | 1948 ± 240 |
| Anthracene | µg/Kg | 2866 ± 237 |
| Benzo(a)anthracene | µg/Kg | 5751 ± 552 |
| Benzo(a)pyrene | µg/Kg | 5902 ± 612 |
| Benzo(b)fluoranthene | µg/Kg | 3010 ± 409 |
| Benzo(b+k)fluoranthene | µg/Kg | 6534 ± 196 |
| Benzo(g,h,i)perylene | µg/Kg | 1380 ± 136 |
| Benzo(k)fluoranthene | µg/Kg | 2215 ± 237 |
| Butyl benzyl phthalate | µg/Kg | 3511 ± 384 |
| Carbazole | µg/Kg | 5412 ± 407 |
| Chrysene | µg/Kg | 1477 ± 72 |
| Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP) | µg/Kg | 2905 ± 321 |
| Dibenzo(a,h)anthracene | µg/Kg | 3420 ± 302 |
| Dibenzofuran | µg/Kg | 6130 ± 253 |
| Dimethyl phthalate | µg/Kg | 4537 ± 250 |
| Di-n-butyl phthalate | µg/Kg | 1721 ± 154 |
| Di-n-octyl phthalate | µg/Kg | 2744 ± 288 |
| Fluoranthene | µg/Kg | 2497 ± 222 |
| Fluorene | µg/Kg | 3724 ± 222 |
| Hexachlorobutadiene | µg/Kg | 1877 ± 245 |
| Indeno(1,2,3-cd) pyrene | µg/Kg | 3914 ± 409 |
| Isophorone | µg/Kg | 1615 ± 170 |
| Naphthalene | µg/Kg | 4458 ± 480 |
| Nitrobenzene | µg/Kg | 3539 ± 266 |
| n-Nitrosodimethylamine | µg/Kg | 1580 ± 402 |
| n-Nitrosodiphenylamine | µg/Kg | 2854 ± 379 |
| Pentachlorophenol | µg/Kg | 3411 ± 358 |
| Phenanthrene | µg/Kg | 5052 ± 385 |
| Phenol | µg/Kg | 2660 ± 184 |
| Pyrene | µg/Kg | 2964 ± 256 |
| Pyridine | µg/Kg | 1008 ± 30 |

Informational Values



Certificate of Analysis

BNAs - Sandy Loam 1

*Certified
Reference
Material*

Description

Product ID CRM143-50G
Lot LRAC8918
Expiration Date January 2024
Manufacturing Date January 2021
Storage Conditions Refrigerate
Solvent/Matrix SOIL

| <i>Analyte</i> | <i>Units</i> | <i>Suggested Acceptance Windows</i> | <i>Standard Deviation</i> |
|--|--------------|---|-------------------------------|
| 1,2,4-Trichlorobenzene | µg/Kg | 148 to 2853 | 459 |
| 1,3-Dichlorobenzene (m-Dichlorobenzene) | µg/Kg | 163 to 3440 | 605 |
| 1-Chloronaphthalene | µg/Kg | 1123 to 4494 | 562 |
| 2,3-Dimethylphenol | µg/Kg | 1821 to 7284 | 910 |
| 2,4,5-Trichlorophenol | µg/Kg | 1003 to 5872 | 811 |
| 2,4,6-Trichlorophenol | µg/Kg | 640 to 3748 | 518 |
| 2,4-Dichlorophenol | µg/Kg | 2391 to 11591 | 1533 |
| 2,4-Dimethylphenol | µg/Kg | 0.00 to 13959 | 2534 |
| 2,4-Dinitrophenol | µg/Kg | 1169 to 4675 | 584 |
| 2,4-Dinitrotoluene (2,4-DNT) | µg/Kg | 1248 to 5388 | 690 |
| 2,6-Dichlorophenol | µg/Kg | 1831 to 7324 | 916 |
| 2,6-Dimethylphenol | µg/Kg | 3033 to 12132 | 1516 |
| 2-Chloronaphthalene | µg/Kg | 748 to 3699 | 492 |
| 2-Chlorophenol | µg/Kg | 415 to 2942 | 421 |
| 2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol) | µg/Kg | 0.00 to 10347 | 1733 |
| 2-Methylphenol (o-Cresol) | µg/Kg | 1306 to 10702 | 1566 |
| 2-Nitrophenol | µg/Kg | 1534 to 11379 | 1641 |
| 3,4-Dimethylphenol | µg/Kg | 2874 to 11495 | 1437 |
| 3+4-Methylphenol (m+p-Cresol) | µg/Kg | 4054 to 16218 | 2027 |
| 4-Bromophenyl phenyl ether (BDE-3) | µg/Kg | 2901 to 11437 | 1423 |
| 4-Chloro-3-methylphenol | µg/Kg | 677 to 3464 | 464 |
| 4-Chlorophenyl phenylether | µg/Kg | 756 to 3348 | 432 |
| 4-Methylphenol (p-Cresol) | µg/Kg | 2647 to 10587 | 1323 |
| 4-Nitrophenol | µg/Kg | 681 to 14762 | 2650 |
| Acenaphthene | µg/Kg | 2243 to 8736 | 1082 |
| Acenaphthylene | µg/Kg | 712 to 3183 | 412 |
| Anthracene | µg/Kg | 1218 to 4515 | 550 |
| Benzo(a)anthracene | µg/Kg | 2806 to 8696 | 982 |
| Benzo(a)pyrene | µg/Kg | 2512 to 9292 | 1130 |
| Benzo(b)fluoranthene | µg/Kg | 1197 to 4822 | 604 |
| Benzo(b+k)fluoranthene | µg/Kg | 2614 to 10454 | 1307 |



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Description

Lot **LRAC8918**
Expiration Date January 2024
Manufacturing Date January 2021
Storage Conditions Refrigerate
Solvent/Matrix SOIL

| | | | |
|---|-------|--------------|------|
| Benzo(g,h,i)perylene | µg/Kg | 489 to 2271 | 297 |
| Benzo(k)fluoranthene | µg/Kg | 892 to 3537 | 441 |
| Butyl benzyl phthalate | µg/Kg | 1255 to 5766 | 752 |
| Carbazole | µg/Kg | 2032 to 8792 | 1127 |
| Chrysene | µg/Kg | 669 to 2284 | 269 |
| Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP) | µg/Kg | 765 to 5045 | 713 |
| Dibenzo(a,h)anthracene | µg/Kg | 1257 to 5583 | 721 |
| Dibenzofuran | µg/Kg | 2766 to 9493 | 1121 |
| Dimethyl phthalate | µg/Kg | 1842 to 7231 | 898 |
| Di-n-butyl phthalate | µg/Kg | 495 to 2947 | 409 |
| Di-n-octyl phthalate | µg/Kg | 690 to 4798 | 685 |
| Fluoranthene | µg/Kg | 984 to 4009 | 504 |
| Fluorene | µg/Kg | 1638 to 5810 | 695 |
| Hexachlorobutadiene | µg/Kg | 425 to 3329 | 484 |
| Indeno(1,2,3-cd) pyrene | µg/Kg | 870 to 6957 | 1015 |
| Isophorone | µg/Kg | 437 to 2792 | 392 |
| Naphthalene | µg/Kg | 1131 to 7784 | 1109 |
| Nitrobenzene | µg/Kg | 1024 to 6054 | 838 |
| n-Nitrosodimethylamine | µg/Kg | 632 to 2528 | 316 |
| n-Nitrosodiphenylamine | µg/Kg | 1142 to 4567 | 571 |
| Pentachlorophenol | µg/Kg | 341 to 7037 | 1209 |
| Phenanthrene | µg/Kg | 2307 to 7798 | 915 |
| Phenol | µg/Kg | 681 to 4639 | 660 |
| Pyrene | µg/Kg | 1118 to 4810 | 615 |
| Pyridine | µg/Kg | 403 to 1613 | 202 |

Additional Information:

DESCRIPTION

The organic sample is a soil containing extractable BNAs for analysis by 8100, 8270, 8310 or equivalent methods.

This product consist of a 5 vials each containing 10g of soil for analysis of PAHs. Each vial is identical and has been tested how homogeneity. Only one vial is need for test the remaining vials are to be used for multiple methods or routine testing.

The soil has been sterilized to minimize degradation of the sample.

The sample has been sized to 100 mesh.

Required storage condition is 4°C.

The sample has been intentionally prepared with an apparent headspace.

STORAGE

The sample should be stored at 4°C. It has been determined to be stable for the duration of the expiration date.

After sub-sampling replace cap securely and store remaining sample at 4°C.

The shelf life of the product was determined by historic stability of similar CRM's. The expiration date may be extended based on stock and popularity upon successful stability testing by a 17025 accredited laboratory.



Certificate of Analysis

BNAs - Sandy Loam 1

*Certified
Reference
Material*

Description

Product ID CRM143-50G
Lot LRAC8918
Expiration Date January 2024
Manufacturing Date January 2021
Storage Conditions Refrigerate
Solvent/Matrix SOIL

Stability and shelf life after opening must be determined by the user, taking into account sampling frequency/volume and all local conditions.

SAMPLE PREPARATION

Extract the complete contents of a single vial. Transfer entire contents of one vial to extraction vessel. Rinse vial and cap with extraction solvent.

Assume a 10g sample size for all calculations.

Note: Sample extracts and calibration solutions should be in the same solvent.

Report all results on a wet weight basis, do not correct for moisture.

NOTE: For method 8100 and using a packed column gas chromatographic method or cannot adequately resolve the following may coelute in four pairs of compounds: anthracene and phenanthrene; chrysene and benzo(a)anthracene; benzo(b)fluoranthene and benzo(k)fluoranthene; and dibenzo(a,h)anthracene and indeno(1,2,3-cd)pyrene.

SCOPE AND APPLICATION

The BNAs in Soil Certified Reference Material (CRM) consists of 5 10mL VOA vials, with a Teflon lined closures containing approximately 10 grams of soil, fortified with BNAs. Being a natural matrix waste sample the analyst is challenged by the same preparation problems, analytical interferences, etc. as is typical for similar matrices received by the laboratory for analysis.



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Description

Lot **LRAC8918**
Expiration Date January 2024
Manufacturing Date January 2021
Storage Conditions Refrigerate
Solvent/Matrix SOIL

1 Metrological traceability: Traceable to the SI and higher order standards from NIST through an unbroken chain of comparisons. The balance used to weigh raw materials is accurate to +/-0.0001 g and calibrated regularly using mass standards traceable to NIST. All dilutions were performed gravimetrically. Additionally, individual analytes are traceable to NIST SRMs where available and specified above.
4 Ucrm - Uncertainty values in this document are expressed as Expanded Uncertainty (Ucrm) corresponding to the 95% confidence interval. Ucrm is derived from the combined standard uncertainty multiplied by the coverage factor k, which is obtained from a t-distribution and degrees of freedom. K=2 unless specified. The components of combined standard uncertainty include the uncertainties due to characterization, homogeneity, long term stability, and short term stability (transport). The components due to stability are generally considered to be negligible unless otherwise indicated by stability studies. The mathematical representation of the Ucrm calculation is as follows:

$$u_{CRM} = \sqrt{u_{char}^2 + u_{homogeneity}^2 + u_{stability}^2}$$

k: Coverage factor derived from a t-distribution table, based on the degrees of freedom of the data set. Assume 2.0 for a **Confidence interval = 95%**

6 Analytical Value- For QC verification of the certified value only- not to be used in calculations. Represents the analytical data obtained by comparison to a standard as analyzed by the method described in the CoA or another acceptable method. The result may differ from the certified value and UCRM based on method uncertainty as well as the uncertainty associated with the standard used for comparison.

Traceability: The standard was manufactured under an ISO/IEC 17025:2017 certified quality system. The balance used to weigh raw materials is accurate to +/- 0.0001g and calibrated regularly using mass standards traceable to NIST. All dilutions were performed gravimetrically. Additionally, individual analytes are traceable to NIST SRMs where available and specified above.

Homogeneity: Homogeneity was assessed in accordance with ISO 17034:2016. Completed units were sampled using a random stratified sampling protocol. The results of chemical analysis were then compared using a one-way analysis of variance approach as described by TNI EL-V3-2009 Appendix A.2. See Instructions for minimum sub-sample size.

Expiration is at end of month given on certificate and label.

MSDS reports for components comprising greater than 1.0% of the solution or 0.1% for components known to be carcinogens are available upon request.

THIS PRODUCT WAS DESIGNED, PRODUCED AND VERIFIED FOR ACCURACY AND STABILITY IN ACCORDANCE WITH ISO/IEC 17025:2017 (ANAB Cert AT-1467) and ISO 17034:2016 (ANAB Cert AR-1470).



Andy Ommen - QC Manager



Mark Pooler - QA Supervisor

Certification Date January 05, 2021
Version 0-152021





Certificate of Analysis

Product Name: Toxic Substances Standard

Product Number: US-103N-1

Lot Issue Date: 25-May-2021

Lot Number: 0006609664

Expiration Date: 30-Jun-2024

Description:

This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

| Analyte | CAS# | Analyte Lot | Concentration ± Uncertainty |
|-----------------------|-------------|-------------|-----------------------------|
| benzoic acid | 000065-85-0 | RM01884 | 2005 ± 10 µg/mL |
| o-cresol | 000095-48-7 | RM12877 | 2005 ± 10 µg/mL |
| p-cresol | 000106-44-5 | RM01988 | 2005 ± 10 µg/mL |
| 2,4,5-trichlorophenol | 000095-95-4 | NT00344 | 2004 ± 10 µg/mL |

Matrix: methylene chloride (dichloromethane)

Storage Conditions: Store at Room Temperature (15° to 30°C).

Traceability:

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCCL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:

This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Intended Use:

This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Instructions for Use:

Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Hazards:

Refer to the Safety Data Sheet on www.agilent.com for information regarding this RM.

[Handwritten signature]
5/11/22

K004539

toxic sub mix#1

Solvent / Lot: methylene chloride

Prep: 5/11/2022 by JZ

Exp: 6/30/2024

Location:



ISO 17034 Cert
No. AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026

Page: 1 of 2

www.agilent.com/quality/
CSD-QA-015.1



ISO 17025 Cert
No. AT-1937



Reference Material Certificate

Product Name: Phenols Standard **Lot Number:** 0006648297
Product Number: US-107N-1 **Lot Issue Date:** 17-Nov-2021
Storage Conditions: Store at Room Temperature (15° to 30°C). **Expiration Date:** 31-Dec-2024

| Component Name | CERTIFIED VALUES | | | CAS# | Analyte Lot |
|----------------------------|------------------|----------------------|--|-------------|-------------|
| | Concentration | Expanded Uncertainty | | | |
| 4-chloro-3-methylphenol | 2006 | ± 10 µg/mL | | 000059-50-7 | RM01885 |
| 2-chlorophenol | 2007 | ± 10 µg/mL | | 000095-57-8 | RM01871 |
| 2,4-dichlorophenol | 2005 | ± 10 µg/mL | | 000120-83-2 | RM13878 |
| 2,4-dimethylphenol | 2006 | ± 10 µg/mL | | 000105-67-9 | RM13009 |
| 2,4-dinitrophenol | 2006 | ± 10 µg/mL | | 000051-28-5 | RM02112 |
| 2-methyl-4,6-dinitrophenol | 2005 | ± 10 µg/mL | | 000534-52-1 | RM02292 |
| 2-nitrophenol | 2007 | ± 10 µg/mL | | 000088-75-5 | RM13445 |
| 4-nitrophenol | 2006 | ± 10 µg/mL | | 000100-02-7 | RM03752 |
| pentachlorophenol | 2006 | ± 10 µg/mL | | 000087-86-5 | RM02474 |
| phenol | 2006 | ± 10 µg/mL | | 000108-95-2 | RM11471 |
| 2,4,6-trichlorophenol | 2006 | ± 10 µg/mL | | 000088-06-2 | RM18096 |

Matrix: methylene chloride (dichloromethane)

Description:

This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed above.

Traceability:

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCCL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:

This analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Instructions for Use:

Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Safety:

Refer to the Safety Data Sheet on www.agilent.com for information regarding this analytical reference material.

JZ 5/11/22

ISO 17034



Agilent

Trusted Answers

Reference Material Certificate

Product Name: PAH Standard

Lot Number: 0006627349

Product Number: US-106N-1

Lot Issue Date: 17-Sep-2021

Storage Conditions: Store at Room Temperature (15° to 30°C).

Expiration Date: 31-Oct-2024

| Component Name | CERTIFIED VALUES | | | CAS# | Analyte Lot |
|------------------------|------------------|----------------------|--|-------------|-------------|
| | Concentration | Expanded Uncertainty | | | |
| acenaphthene | 2007 | ± 10 µg/mL | | 000083-32-9 | RM10879 |
| acenaphthylene | 2004 | ± 10 µg/mL | | 000208-96-8 | RM10891 |
| anthracene | 2006 | ± 10 µg/mL | | 000120-12-7 | RM14212 |
| benz[a]anthracene | 2006 | ± 10 µg/mL | | 000056-55-3 | RM16072 |
| benzo[b]fluoranthene | 2006 | ± 10 µg/mL | | 000205-99-2 | RM14571 |
| benzo[k]fluoranthene | 2006 | ± 10 µg/mL | | 000207-08-9 | RM18376 |
| benzo[ghi]perylene | 2006 | ± 10 µg/mL | | 000191-24-2 | RM15761 |
| benzo[a]pyrene | 2006 | ± 10 µg/mL | | 000050-32-8 | RM17573 |
| chrysene | 2007 | ± 10 µg/mL | | 000218-01-9 | RM13771 |
| dibenz[a,h]anthracene | 2006 | ± 10 µg/mL | | 000053-70-3 | RM06786 |
| fluoranthene | 2006 | ± 10 µg/mL | | 000206-44-0 | RM12277 |
| fluorene | 2006 | ± 10 µg/mL | | 000086-73-7 | RM09441 |
| indeno[1,2,3-cd]pyrene | 2006 | ± 10 µg/mL | | 000193-39-5 | RM14192 |
| naphthalene | 2007 | ± 10 µg/mL | | 000091-20-3 | RM10445 |
| phenanthrene | 2005 | ± 10 µg/mL | | 000085-01-8 | RM10495 |
| pyrene | 2005 | ± 10 µg/mL | | 000129-00-0 | RM16126 |

Matrix: methylene chloride/benzene (1:1)

Description:

This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed above.

Traceability:

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:

This analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

K004541

SVOA PAH STD 2000ug/ml

Solvent / Lot: DCM/BENZENE

Prep: 5/11/2022 by JZ

Exp: 10/31/2024

Location: Fridge 19

Page: 1 of 2

CSD-QA-015.1



Reference Materials Producer
Cert #2495.01



Certificate of Analysis



Chemical Testing
Cert #2495.02

Catalog Number: ECS-A-030 **Lot No.** AA210126005
Description: Base/Neutrals Mix 1
Matrix: Methylene Chloride **Manufactured Date:** 1-26-2021
Expiration Date: 1-26-2024

This SPEXOrganics® Certified Reference Material, CRM, is intended primarily for use as a calibration standard or quality control standard for organic chromatography instrumentation such as GC, GC-MS, LC, and LC-MS. It can be employed in USEPA, ASTM and other methods relevant to the certified properties listed below.

Certified Compounds:

| <u>Compound</u> | <u>CAS #</u> | <u>Labeled</u> | <u>Purity</u> | <u>Certified†</u> | <u>Uncertainty</u> |
|-----------------------------------|--------------|----------------|---------------|-------------------|--------------------|
| 1,2,4-Trichlorobenzene | 120-82-1 | 2000 µg/mL | 99% | 2010 µg/mL | ± 50 µg/mL |
| 1,2-Dichlorobenzene | 95-50-1 | 2000 µg/mL | 99% | 2002 µg/mL | ± 50 µg/mL |
| 1,3-Dichlorobenzene | 541-73-1 | 2000 µg/mL | 98% | 2021 µg/mL | ± 51 µg/mL |
| 1,4-Dichlorobenzene | 106-46-7 | 2000 µg/mL | 99% | 2012 µg/mL | ± 50 µg/mL |
| 2,4-Dinitrotoluene | 121-14-2 | 2000 µg/mL | 97% | 2006 µg/mL | ± 50 µg/mL |
| 2,6-Dinitrotoluene | 606-20-2 | 2000 µg/mL | 99.6% | 2012 µg/mL | ± 50 µg/mL |
| 2-Chloronaphthalene | 91-58-7 | 2000 µg/mL | 98% | 2004 µg/mL | ± 50 µg/mL |
| 4-Bromodiphenyl ether | 101-55-3 | 2000 µg/mL | 99% | 2022 µg/mL | ± 51 µg/mL |
| 4-Chlorophenyl-phenyl ether | 7005-72-3 | 2000 µg/mL | 98% | 2001 µg/mL | ± 50 µg/mL |
| Azobenzene | 103-33-3 | 2000 µg/mL | 98% | 2001 µg/mL | ± 50 µg/mL |
| Bis(2-chloro-1-methylethyl) ether | 108-60-1 | 2000 µg/mL | 98.9% | 2010 µg/mL | ± 50 µg/mL |
| bis(2-Chloroethoxy)methane | 111-91-1 | 2000 µg/mL | 97% | 2001 µg/mL | ± 50 µg/mL |
| bis(2-Chloroethyl)ether | 111-44-4 | 2000 µg/mL | 99% | 2002 µg/mL | ± 50 µg/mL |
| Bis(2-Ethylhexyl)phthalate | 117-81-7 | 2000 µg/mL | 99% | 2003 µg/mL | ± 50 µg/mL |
| Butylbenzyl phthalate | 85-68-7 | 2000 µg/mL | 98% | 2000 µg/mL | ± 50 µg/mL |
| Carbazole | 86-74-8 | 2000 µg/mL | 95% | 2009 µg/mL | ± 50 µg/mL |
| Di-n-butyl phthalate | 84-74-2 | 2000 µg/mL | 99% | 2020 µg/mL | ± 50 µg/mL |
| Di-n-octyl phthalate | 117-84-0 | 2000 µg/mL | 98% | 2000 µg/mL | ± 50 µg/mL |
| Diethyl phthalate | 84-66-2 | 2000 µg/mL | 99.5% | 2002 µg/mL | ± 50 µg/mL |
| Dimethyl phthalate | 131-11-3 | 2000 µg/mL | 99% | 2006 µg/mL | ± 50 µg/mL |
| Hexachlorobenzene | 118-74-1 | 2000 µg/mL | 99% | 2003 µg/mL | ± 50 µg/mL |
| Hexachlorobutadiene | 87-68-3 | 2000 µg/mL | 97% | 2003 µg/mL | ± 50 µg/mL |
| Hexachlorocyclopentadiene | 77-47-4 | 2000 µg/mL | 99% | 2003 µg/mL | ± 50 µg/mL |
| Hexachloroethane | 67-72-1 | 2000 µg/mL | 98% | 2003 µg/mL | ± 50 µg/mL |
| Isophorone | 78-59-1 | 2000 µg/mL | 97% | 2003 µg/mL | ± 50 µg/mL |
| N-Nitrosodi-n-propylamine | 621-64-7 | 2000 µg/mL | 98% | 2000 µg/mL | ± 50 µg/mL |
| N-Nitrosodiphenylamine | 86-30-6 | 2000 µg/mL | 97% | 2001 µg/mL | ± 50 µg/mL |
| Nitrobenzene | 98-95-3 | 2000 µg/mL | 99% | 2001 µg/mL | ± 50 µg/mL |
| Pyridine | 110-86-1 | 2000 µg/mL | 99% | 2004 µg/mL | ± 50 µg/mL |
| N-Nitrosodimethylamine | 62-75-9 | 2000 µg/mL | 97% | 2000 µg/mL | ± 50 µg/mL |

Report of Certification

Catalog Number: ECS-A-030 **Lot No.** AA210126005
Description: Base/Neutrals Mix 1
Matrix: Methylene Chloride **Manufactured Date:** 1-26-2021
Expiration Date: 1-26-2024

This Certified Reference Material (CRM) has been prepared and certified under an ISO 9001:2008, ISO 17025:2005, and ISO Guide 34:2009 Quality System consistent with the following standards:

- ISO 9001:2008: Quality management systems - Requirements - Certified by UL-DQS
- ISO 17025:2005: General Requirements for the Competence of Testing and Calibration Laboratories - Accredited by A2LA
- ISO Guide 34:2009: General Requirements for the Competence of Reference Material Producers - Accredited by A2LA
- ISO Guide 31:2000: Reference Materials - Contents of Certificates and Labels
- ISO Guide 35:2006: Reference Materials - General and statistical principals for certification
- Guide to the Expression of Uncertainty in Measurement 1997
- EURACHEM/CITAC Guide: Qualifying Uncertainty in Analytical Measurements - Second Edition
- ASTM Guide D6362-98
- NIST Technical Note 1297
- ILAC-G12-2000: Guidelines for the requirements for the competence of reference material producers
- ISO/REMCO N280

Storage Requirements:

To ensure the stability of the product once it arrives in your laboratory, please store this product in a refrigerator (2°C to 8°C). Note: Shipping conditions may differ from storage conditions. The EXPIRATION DATE is calculated from the MANUFACTURED DATE using our stability data and is applicable only if the product is unopened and stored under the prescribed conditions.

Instructions for Use:

Let material come to room temperature before use. Check for precipitate and if necessary sonicate for one minute. If compounds do not dissolve after one minute then sonicate further until the product is dissolved. A clear appearance is acceptable. The minimum recommended amount that should be removed from this vial is 5 µL with a 25 µL gas tight syringe. All solutions should be thoroughly mixed, by shaking, prior to use. All surfaces that come in contact with the solution must be thoroughly cleaned prior to use. Dilutions should be performed only with Class A volumetric glassware.

Material Source:

All analytes and matrix materials are obtained and verified by SPEX CertiPrep from pre-qualified vendors as per ISO guidelines. Vendor identifications are proprietary, however sources of all materials used in the preparation and testing of SPEX CertiPrep CRMs are tracked and documented. For assistance, please contact sales support at crmsales@spexcsp.com.

Method of Preparation:

Clean laboratory procedures and techniques have been used throughout the preparation. All materials, equipment, and analytical instrumentation have been qualified prior to use. The highest purity solvents and Class A / calibrated volumetrics have been used in all preparations.

Homogeneity:

The homogeneity of this CRM has been confirmed by procedures consistent with ISO 17025:2005, ISO Guide 34:2009, and ASTM D6362-98 Appendix X2. Random, replicate samples of the final, packaged material have been analyzed to prove homogeneity in accordance with our internal procedure 4300-HOMOGEN-1A. This is consistent with the intended use of this CRM. The Degree of Homogeneity, as expressed as maximum between-bottle variation, is 1.2%

Statistical Estimator and Confidence Limits:

The Certified value 'X' as listed on the reverse of this document is at the 95% level of confidence and can be expressed as:

- $X = x \pm U$ where X=certified value, U=expanded uncertainty, x=property value
- $U = k u_c$ where k=2 is the coverage factor at the 95% confidence level
- $u_c =$ combined standard uncertainty obtained by combining the individual compound standard uncertainty components u_i , where $u_c = \sqrt{\sum u_i^2}$

Legal Notice:

SPEX CertiPrep Certified Reference Materials are not for any cosmetic, drug, or household application and are to be used only by qualified individuals who are trained in appropriate procedures. No claims against SPEX CertiPrep of any kind whatsoever, whether based on breach of warranty, alleged negligence, or otherwise, with respect to this Reference Material shall be greater than the purchase price. In no event shall SPEX CertiPrep be liable for any loss of profits or any incidental, special, or consequential damages.

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SPEX CertiPrep 

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Phone: 1-732-549-7144 • Fax 1-732-603-9647





Reference Materials Producer
Cert #2495.01



Certificate of Analysis



Chemical Testing
Cert #2495.02

Catalog Number: ECS-A-030

Lot No. AA210126005

Description: Base/Neutrals Mix 1

Matrix: Methylene Chloride

Manufactured Date: 1-26-2021

Expiration Date: 1-26-2024

This SPEXOrganics® Certified Reference Material, CRM, is intended primarily for use as a calibration standard or quality control standard for organic chromatography instrumentation such as GC, GC-MS, LC, and LC-MS. It can be employed in USEPA, ASTM and other methods relevant to the certified properties listed below.

Certified Compounds:

| <u>Compound</u> | <u>CAS #</u> | <u>Labeled</u> | <u>Purity</u> | <u>Certified†</u> | <u>Uncertainty</u> |
|-----------------------------------|--------------|----------------|---------------|-------------------|--------------------|
| 1,2,4-Trichlorobenzene | 120-82-1 | 2000 µg/mL | 99% | 2010 µg/mL | ± 50 µg/mL |
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| 1,3-Dichlorobenzene | 541-73-1 | 2000 µg/mL | 98% | 2021 µg/mL | ± 51 µg/mL |
| 1,4-Dichlorobenzene | 106-46-7 | 2000 µg/mL | 99% | 2012 µg/mL | ± 50 µg/mL |
| 2,4-Dinitrotoluene | 121-14-2 | 2000 µg/mL | 97% | 2006 µg/mL | ± 50 µg/mL |
| 2,6-Dinitrotoluene | 606-20-2 | 2000 µg/mL | 99.6% | 2012 µg/mL | ± 50 µg/mL |
| 2-Chloronaphthalene | 91-58-7 | 2000 µg/mL | 98% | 2004 µg/mL | ± 50 µg/mL |
| 4-Bromodiphenyl ether | 101-55-3 | 2000 µg/mL | 99% | 2022 µg/mL | ± 51 µg/mL |
| 4-Chlorophenyl-phenyl ether | 7005-72-3 | 2000 µg/mL | 98% | 2001 µg/mL | ± 50 µg/mL |
| Azobenzene | 103-33-3 | 2000 µg/mL | 98% | 2001 µg/mL | ± 50 µg/mL |
| Bis(2-chloro-1-methylethyl) ether | 108-60-1 | 2000 µg/mL | 98.9% | 2010 µg/mL | ± 50 µg/mL |
| bis(2-Chloroethoxy)methane | 111-91-1 | 2000 µg/mL | 97% | 2001 µg/mL | ± 50 µg/mL |
| bis(2-Chloroethyl)ether | 111-44-4 | 2000 µg/mL | 99% | 2002 µg/mL | ± 50 µg/mL |
| Bis(2-Ethylhexyl)phthalate | 117-81-7 | 2000 µg/mL | 99% | 2003 µg/mL | ± 50 µg/mL |
| Butylbenzyl phthalate | 85-68-7 | 2000 µg/mL | 98% | 2000 µg/mL | ± 50 µg/mL |
| Carbazole | 86-74-8 | 2000 µg/mL | 95% | 2009 µg/mL | ± 50 µg/mL |
| Di-n-butyl phthalate | 84-74-2 | 2000 µg/mL | 99% | 2020 µg/mL | ± 50 µg/mL |
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| Diethyl phthalate | 84-66-2 | 2000 µg/mL | 99.5% | 2002 µg/mL | ± 50 µg/mL |
| Dimethyl phthalate | 131-11-3 | 2000 µg/mL | 99% | 2006 µg/mL | ± 50 µg/mL |
| Hexachlorobenzene | 118-74-1 | 2000 µg/mL | 99% | 2003 µg/mL | ± 50 µg/mL |
| Hexachlorobutadiene | 87-68-3 | 2000 µg/mL | 97% | 2003 µg/mL | ± 50 µg/mL |
| Hexachlorocyclopentadiene | 77-47-4 | 2000 µg/mL | 99% | 2003 µg/mL | ± 50 µg/mL |
| Hexachloroethane | 67-72-1 | 2000 µg/mL | 98% | 2003 µg/mL | ± 50 µg/mL |
| Isophorone | 78-59-1 | 2000 µg/mL | 97% | 2003 µg/mL | ± 50 µg/mL |
| N-Nitrosodi-n-propylamine | 621-64-7 | 2000 µg/mL | 98% | 2000 µg/mL | ± 50 µg/mL |
| N-Nitrosodiphenylamine | 86-30-6 | 2000 µg/mL | 97% | 2001 µg/mL | ± 50 µg/mL |
| Nitrobenzene | 98-95-3 | 2000 µg/mL | 99% | 2001 µg/mL | ± 50 µg/mL |
| Pyridine | 110-86-1 | 2000 µg/mL | 99% | 2004 µg/mL | ± 50 µg/mL |
| N-Nitrosodimethylamine | 62-75-9 | 2000 µg/mL | 97% | 2000 µg/mL | ± 50 µg/mL |

K004542

Certificate of Reference Material

Catalog Number: ECS-A-030

Lot No. AA210126005

Description: Base/Neutrals Mix 1

Matrix: Methylene Chloride

Manufactured Date: 1-26-2021

Expiration Date: 1-26-2024

Final Solution Verification:

Final solution integrity verified by Gas Chromatography/Mass Spectrometry. The mass spectrum of each compound was confirmed against the NIST mass spectral database.

† Certified concentration based on gravimetric weights and corrected for the purity of the compound(s) used to prepare the standard. Analytical balance calibration is verified daily with C1 weight set #23-190006 which is registered with Atlantic Scale, and traceable to NIST and NJ Division of Weights and Measures.

This CRM is guaranteed stable and accurate to within the uncertainty listed for the certified value. This includes uncertainty components due to preparation, homogeneity, short term and long term stability. During the stated period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution. For further information, contact the Sales Support Department at crmsales@spexcsp.com.

Date of Certification: 1-26-2021

Certifying Officer: Shannon Nove

Report of Certification

Catalog Number: ECS-A-030 **Lot No.** AA210126005
Description: Base/Neutrals Mix 1
Matrix: Methylene Chloride **Manufactured Date:** 1-26-2021
Expiration Date: 1-26-2024

This Certified Reference Material (CRM) has been prepared and certified under an ISO 9001:2008, ISO 17025:2005, and ISO Guide 34:2009 Quality System consistent with the following standards:

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- ISO Guide 35:2006: Reference Materials - General and statistical principals for certification
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- EURACHEM/CITAC Guide: Qualifying Uncertainty in Analytical Measurements - Second Edition
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- NIST Technical Note 1297
- ILAC-G12-2000: Guidelines for the requirements for the competence of reference material producers
- ISO/REMCO N280

Storage Requirements:

To ensure the stability of the product once it arrives in your laboratory, please store this product in a refrigerator (2°C to 8°C). Note: Shipping conditions may differ from storage conditions. The EXPIRATION DATE is calculated from the MANUFACTURED DATE using our stability data and is applicable only if the product is unopened and stored under the prescribed conditions.

Instructions for Use:

Let material come to room temperature before use. Check for precipitate and if necessary sonicate for one minute. If compounds do not dissolve after one minute then sonicate further until the product is dissolved. A clear appearance is acceptable. The minimum recommended amount that should be removed from this vial is 5 µL with a 25 µL gas tight syringe. All solutions should be thoroughly mixed, by shaking, prior to use. All surfaces that come in contact with the solution must be thoroughly cleaned prior to use. Dilutions should be performed only with Class A volumetric glassware.

Material Source:

All analytes and matrix materials are obtained and verified by SPEX CertiPrep from pre-qualified vendors as per ISO guidelines. Vendor identifications are proprietary, however sources of all materials used in the preparation and testing of SPEX CertiPrep CRMs are tracked and documented. For assistance, please contact sales support at crmsales@spexcsp.com.

Method of Preparation:

Clean laboratory procedures and techniques have been used throughout the preparation. All materials, equipment, and analytical instrumentation have been qualified prior to use. The highest purity solvents and Class A / calibrated volumetrics have been used in all preparations.

Homogeneity:

The homogeneity of this CRM has been confirmed by procedures consistent with ISO 17025:2005, ISO Guide 34:2009, and ASTM D6362-98 Appendix X2. Random, replicate samples of the final, packaged material have been analyzed to prove homogeneity in accordance with our internal procedure 4300-HOMOGEN-1A. This is consistent with the intended use of this CRM. The Degree of Homogeneity, as expressed as maximum between-bottle variation, is 1.2%

Statistical Estimator and Confidence Limits:

The Certified value 'X' as listed on the reverse of this document is at the 95% level of confidence and can be expressed as:

- $X = x \pm U$ where X=certified value, U=expanded uncertainty, x=property value
- $U = k u_c$ where k=2 is the coverage factor at the 95% confidence level
- u_c = combined standard uncertainty obtained by combining the individual compound standard uncertainty components u_i , where $u_c = \sqrt{\sum u_i^2}$

Legal Notice:

SPEX CertiPrep Certified Reference Materials are not for any cosmetic, drug, or household application and are to be used only by qualified individuals who are trained in appropriate procedures. No claims against SPEX CertiPrep of any kind whatsoever, whether based on breach of warranty, alleged negligence, or otherwise, with respect to this Reference Material shall be greater than the purchase price. In no event shall SPEX CertiPrep be liable for any loss of profits or any incidental, special, or consequential damages.

Distributed By SPEX CertiPrep

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Certificate of Analysis

Product Name: 1-Methylnaphthalene Standard

Product Number: EPA-1225-1

Lot Issue Date: 19-Jul-2021

Lot Number: 0006624769

Expiration Date: 31-Jul-2023

Description:

This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

| Analyte | CAS# | Analyte Lot | Concentration ± Uncertainty |
|---------------------|-------------|-------------|-----------------------------|
| 1-methylnaphthalene | 000090-12-0 | RM07712 | 999.3 ± 5.0 µg/mL |

Matrix: methanol (methyl alcohol)

Storage Conditions: Store at Room Temperature (15° to 30°C).

Traceability:

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:

This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Intended Use:

This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Instructions for Use:

Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Hazards:

Refer to the Safety Data Sheet on www.agilent.com for information regarding this RM.

Expiration of Certification:

The certification of this RM is valid until the expiration date specified above, provided the RM is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the RM is damaged, contaminated, or otherwise modified.

Maintenance of Certification:

If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

K004543

1-Methylnaphthalene
Solvent / Lot: MEOH
Prep: 5/11/2022 by JZ
Exp: 7/31/2023
Location:

JZ
5/11/22

Sample lot approver:

Monica Bourgeois
Monica Bourgeois
QMS Representative



ISO 17034 Cert
No. AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026

Page: 1 of 1

www.agilent.com/quality/
CSD-QA-015.1



ISO 17025 Cert
No. AT-1937



Certificate of Analysis

Product Name: Toxic Substances Standard

Product Number: US-104N-1

Lot Issue Date: 02-Jul-2021

Lot Number: 0006620643

Expiration Date: 31-Jul-2023

Description:

This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

| Analyte | CAS# | Analyte Lot | Concentration ± Uncertainty |
|---------------------|-------------|-------------|-----------------------------|
| aniline | 000062-53-3 | RM12853 | 2005 ± 10 µg/mL |
| benzyl alcohol | 000100-51-6 | RM10547 | 2004 ± 10 µg/mL |
| 4-chloroaniline | 000106-47-8 | RM01886 | 2002 ± 10 µg/mL |
| dibenzofuran | 000132-64-9 | RM02077 | 2002 ± 10 µg/mL |
| 2-methylnaphthalene | 000091-57-6 | RM01258 | 2006 ± 10 µg/mL |
| 2-nitroaniline | 000088-74-4 | RM02402 | 2003 ± 10 µg/mL |
| 3-nitroaniline | 000099-09-2 | RM02424 | 2003 ± 10 µg/mL |
| 4-nitroaniline | 000100-01-6 | RM02425 | 2003 ± 10 µg/mL |

Matrix: methylene chloride (dichloromethane)

Storage Conditions: Store at Room Temperature (15° to 30°C).

Traceability:

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCCL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:

This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Intended Use:

This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

K004544

toxic sub mix#2

Solvent / Lot: methylene chloride

Prep: 5/11/2022 by JZ

Exp: 7/31/2023

Location:

JZ 05/11/22



ISO 17034 Cert
No. AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026

Page: 1 of 2

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CSD-QA-015.1



ISO 17025 Cert
No. AT-1937



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No.: 31493 Lot No.: A0181243
Description: CLP 04.1 BNA Surrogate Mix
CLP 04.1 BNA Surrogate Mix 1000-1500 µg/mL, Methylene Chloride, 1mL/ampul
Container Size: 2 mL Pkg Amt: > 1 mL
Expiration Date: October 31, 2025 Storage: 10°C or colder
Handling: Sonicate prior to use. Ship: Ambient

Handwritten signature and date: 05/11/22

K004545
CLP 04.1 BNA SURR MIX
Solvent / Lot: AO175316
Prep: 5/11/2022 by JZ
Exp: 10/20/2025
Location:

Table with 7 columns: Elution Order, Compound, CAS #, Purity, Weight, Concentration, and Method. Contains 7 rows of data for various compounds like 2-Fluorophenol, Phenol-d6, 2-Chlorophenol-d4, 1,2-Dichlorobenzene-d4, Nitrobenzene-d5, 2-Fluorobiphenyl, and 2,4,6-Tribromophenol.

Certificate of Analysis

Produced by Phenova

6390 Joyce Drive STE 100, Golden, CO 80403 USA ■ Tel: 303-940-0033 ■ Fax: 303-940-0043 ■ info@phenova.com
Access your Safety Data Sheets and digital Certificates at www.phenova.com/documents.

Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101246

Lot Number: CL17953

Description: Benzoic Acid

Certification Date: January 31, 2022

Storage: 4 °C

Expiration Date: January 31, 2032

Provided As: 1 mL in 2 mL Ampoule in Methylene Chloride

Andrea Gill

Andrea Gill, Certified Reference Materials Manager

| Component | CAS # | Certified Value µg/mL | Expanded Uncertainty |
|--------------|---------|--------------------------|----------------------|
| Benzoic acid | 65-85-0 | 2000 | ± 2.714% |

K004603

Benzoic Acid @2000ug/ml

Solvent / Lot: N/A

Prep: 5/13/2022 by JZ

Exp: 1/31/2032

Location: GC

⊕ 5/13/22



Reference Material Producer
Certificate No. 2427.02



Phenova is an accredited ISO/IEC 17034 Reference Material
Producer and ISO/IEC 17025 accredited Chemical Testing Laboratory.



Chemical Testing Laboratory
Certificate No. 2427.03

Certificate of Analysis

Produced by Phenova

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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101244

Lot Number: CL17662

Description: Benzidines Standard

Certification Date: December 2, 2021

Storage: 4 °C

Expiration Date: November 30, 2031

Provided As: 1 mL in 2 mL Ampoule in Methylene Chloride

Andrea Gill

Andrea Gill, Certified Reference Materials Manager

| Component | CAS # | Certified Value µg/mL | Expanded Uncertainty |
|------------------------|---------|--------------------------|----------------------|
| Benzidine | 92-87-5 | 2000 | ± 0.211% |
| 3,3'-Dichlorobenzidine | 91-94-1 | 2000 | ± 1.305% |

K004604

Benzidines std @2000ug/ml
Solvent / Lot: Mecl2
Prep: 5/13/2022 by JZ
Exp: 11/30/2031
Location: GC

JZ 5/13/22



Reference Material Producer
Certificate No. 2427.02



Phenova is an accredited ISO/IEC 17034 Reference Material
Producer and ISO/IEC 17025 accredited Chemical Testing Laboratory.

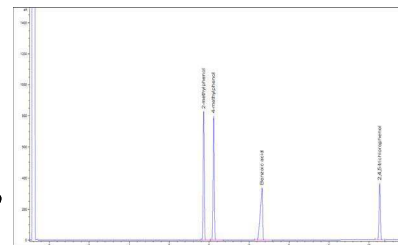


Chemical Testing Laboratory
Certificate No. 2427.03

Certificate of Analysis - Certified Reference Material

EPA TCL Hazardous Substances Mix 1

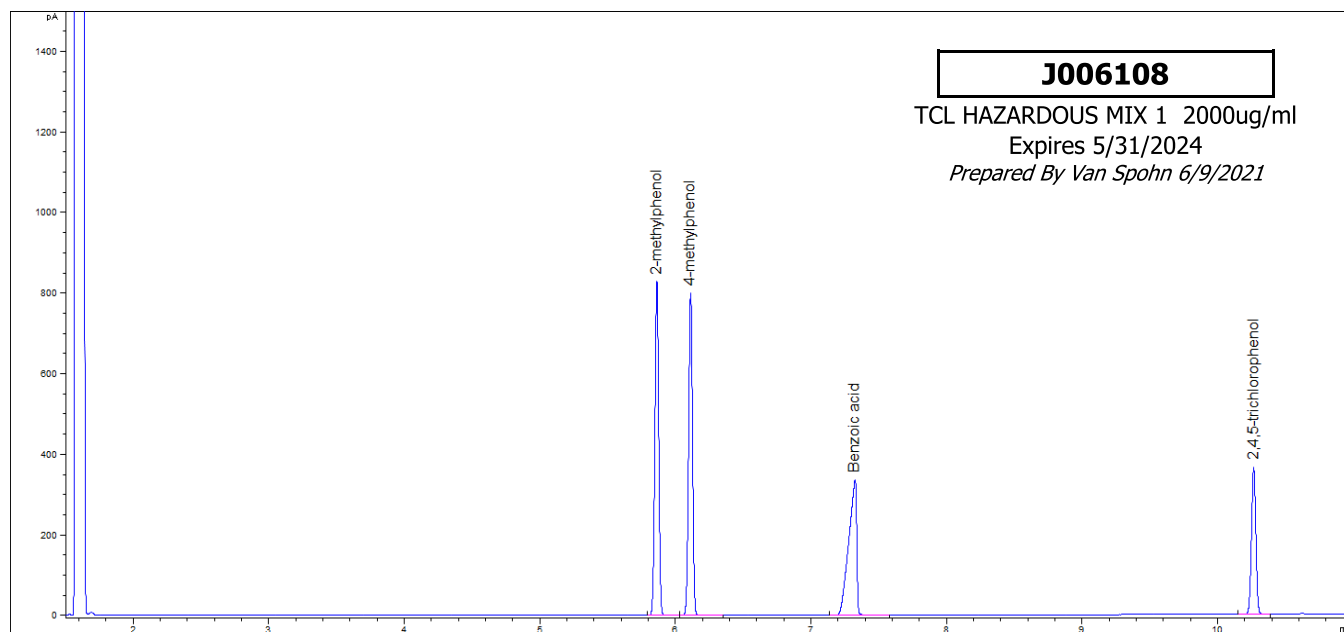
Product no.: 48907
Lot no.: LRAC9610
Expiry Date: May 2024
Manufacturing Date: May 2021
Storage: Refrigerate
Solvent/Matrix: DICHLOROMETHANE
Certificate version: LRAC9610.01 (Note: Certificates may be updated due to the availability of new data. Check our website at: www.sigma-aldrich.com for the most current version.)



Certified Values:

| Analyte | Certified Value | Units | Raw Material Purity, % | Elution order | Raw Material Lot |
|---------------------------------------|-----------------|-------|------------------------|---------------|------------------|
| 2-METHYLPHENOL CAS# 95-48-7 | 2004 ± 9 | µg/mL | 99.0 | 1 | G1735A |
| 4-METHYLPHENOL CAS# 106-44-5 | 2004 ± 13 | µg/mL | 98.9 | 2 | 06921MG |
| BENZOIC ACID CAS# 65-85-0 | 2012 ± 6 | µg/mL | 99.9 | 3 | LC16514 |
| 2,4,5-TRICHLOROPHENOL CAS# 95-95-4 | 2003 ± 6 | µg/mL | 99.9 | 4 | JS00008 |

Informational Values:



Additional Information:

Analytical Method Parameters:
 Column: Equity-5, 30 m × 0.53 mm I.D., 1.5 µm film thickness (Column #98)
 Carrier Gas: H₂, Flow: 4.5 mL/min
 Inlet Temperature: 170 °C, Injection Volume: 1 µL
 Injection Mode: Split, Split Ratio: 20:1



Temperature Program: 80 °C @ 10 °C/min to 190 °C (Hold 5 min)
Detector: FID
Detector Temperature: 310 °C

Metrological traceability: Traceable to the SI and higher order standards from NIST through an unbroken chain of comparisons. The balance used to weigh raw materials is accurate to +/-0.0001 g and calibrated regularly using mass standards traceable to NIST. All dilutions were performed gravimetrically. Additionally, individual analytes are traceable to NIST SRMs where available and specified above.

Measurement method: Where applicable, the assigned value is based on a purity determination by mass balance and gravimetrically prepared value.

Intended use: Intended for R&D and Analytical Use only. Not for drug, household or other uses.

Packaging: 1 mL in amber ampule

Instructions for handling and correct use: Use on the as is basis. The internal pressure of the container may be slightly different from the atmospheric pressure at the user`s location. Open slowly and carefully to avoid dispersion of the material.

Health and safety information: All chemical reference materials should be considered potentially hazardous and should be used only by qualified laboratory personnel. Please refer to the Safety Data Sheet for detailed information about the nature of any hazard and appropriate precautions to be taken.

Accreditation: Sigma-Aldrich RTC is accredited by the US accreditation authority ANAB as a registered reference material producer AR-1470 in accordance with ISO 17034.

Certificate issue date: 20-May-2021



Handwritten signature of Andy Ommen in black ink.

Andy Ommen - QC Manager

Handwritten signature of Mark Pooler in black ink.

Mark Pooler - QA Supervisor

Details on metrological traceability: This standard has been gravimetrically prepared using balances that have been fully qualified and calibrated to ISO 17025 requirements. All calibrations utilize NIST traceable weights which are calibrated externally by a qualified ISO 17025 accredited calibration laboratory to NIST standards. Qualification of each balance includes the assignment of a minimum weighing by a qualified and ISO 17025 accredited calibration vendor taking into consideration the balance and installed environmental conditions to ensure compliance with USP tolerances of NMT 0.10% relative error. Fill volume to predetermined specifications is gravimetrically verified throughout the dispensing process using qualified and calibrated balances. Further traceability to a corresponding Primary Standard may be achieved through a direct comparison assay. Where a Primary Standard is available, the assay value will be included in the specified section of the COA.

Associated uncertainty: Ucrm - Uncertainty values in this document are expressed as Expanded Uncertainty (Ucrm) corresponding to the 95% confidence interval. Ucrm is derived from the combined standard uncertainty multiplied by the coverage factor k, which is obtained from a t-distribution and degrees of freedom. The components of combined standard uncertainty include the uncertainties due to characterization, homogeneity, long term stability, and short term stability (transport). The components due to stability are generally considered to be negligible unless otherwise indicated by stability studies. The mathematical representation of the Ucrm calculation is as follows:

$$u_{CRM} = \sqrt{u_{char}^2 + u_{homogeneity}^2 + u_{stability}^2}$$

Homogeneity assessment: Homogeneity was assessed in accordance with ISO Guide 35. Completed units were sampled using a random stratified sampling protocol. The results of chemical analysis were then compared by Single Factor Analysis of Variance (ANOVA). The uncertainty due to homogeneity was derived from the ANOVA. Heterogeneity was not detected under the conditions of the ANOVA.

Stability assessment:

Significance of the stability assessment will be demonstrated if the analytical result of the study and the range of values represented by the Expanded Uncertainty do not overlap the result of the original assay and the range of its values represented by the Expanded Uncertainty. The method employed will usually be the same method used to characterize the assay value in the initial

Certificate of analysis revision history:

| Certificate version | Date | Reason for version |
|----------------------------|-------------|---------------------------|
| LRAC9610.01 | 20-May-2021 | Original Release Date |

Disclaimer: The purchaser is required to determine the suitability of this product for any particular application. Sigma-Aldrich RTC makes no warranty of any kind, express or implied, other than its products meet all quality control standards set by Sigma-Aldrich RTC. We do not guarantee that the product can be used for any particular application.

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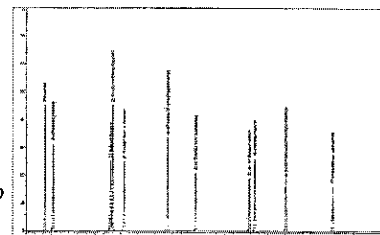
The life science business of Merck KGaA, Darmstadt, Germany
operates as MilliporeSigma in the US and Canada.



Certificate of Analysis - Certified Reference Material

EPA TCL Phenols Mix

Product no.: 48904
Lot no.: LRAD0139
Expiry Date: July 2024
Manufacturing Date: July 2021
Storage: REFRIGERATE
Solvent/Matrix: DICHLOROMETHANE
Certificate version: LRAD0139.01 (Note: Certificates may be updated due to the availability of new data. Check our website at: www.sigma-aldrich.com for the most current version.)



Certified Values:

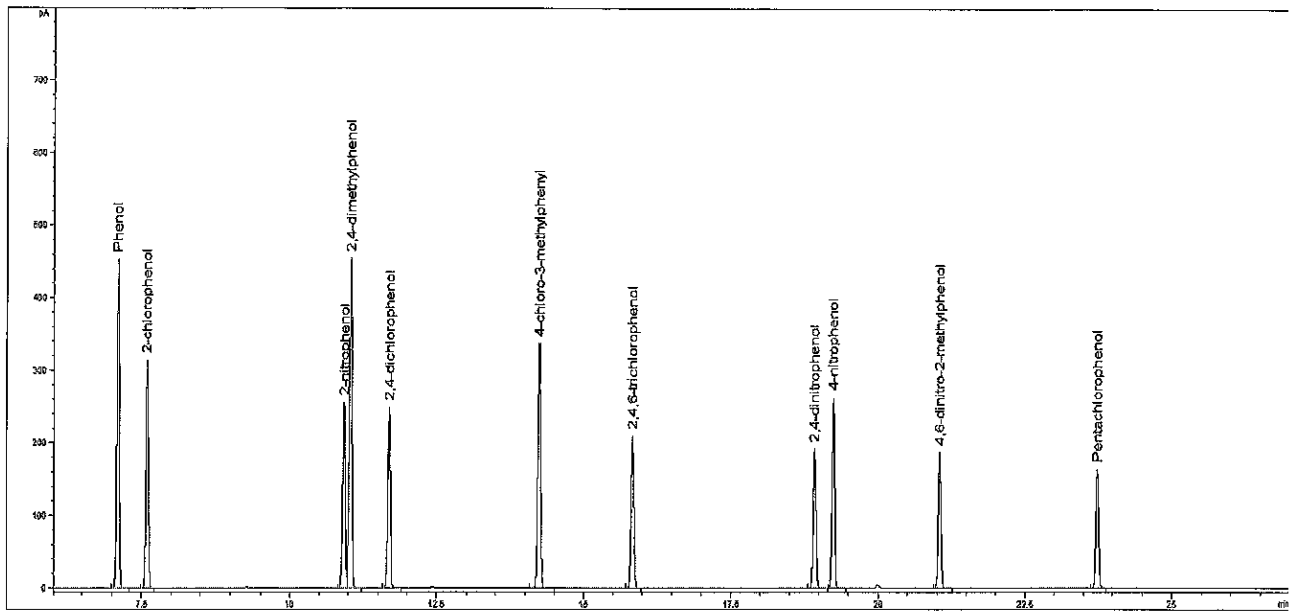
| Analyte | Certified Value | Units | Raw Material Purity, % | Raw Material Lot |
|---|-----------------|-------|------------------------|------------------|
| 2-CHLOROPHENOL CAS# 95-57-8 | 2001 ± 25 | µg/mL | 99.9 | STBG3033V |
| 2-NITROPHENOL CAS# 88-75-5 | 1999 ± 18 | µg/mL | 99.3 | 15905BB |
| 2,4-DIMETHYLPHENOL CAS# 105-67-9 | 2000 ± 14 | µg/mL | 99.2 | 05421CO |
| 2,4-DICHLOROPHENOL CAS# 120-83-2 | 2000 ± 17 | µg/mL | 99.5 | 03221TN |
| 4-CHLORO-3-METHYLPHENOL CAS# 59-50-7 | 2000 ± 5 | µg/mL | 99.9 | JS00013 |
| 2,4,6-TRICHLOROPHENOL CAS# 88-06-2 | 2002 ± 5 | µg/mL | 99.5 | 04212PS |
| 2,4-DINITROPHENOL CAS# 51-28-5 | 2000 ± 28 | µg/mL | 66.9 | STBJ5751 |
| 4-NITROPHENOL CAS# 100-02-7 | 2000 ± 33 | µg/mL | 99.0 | 04628LT |
| 2-METHYL-4,6-DINITROPHENOL CAS# 534-52-1 | 2000 ± 27 | µg/mL | 99.7 | LC18338 |
| PENTACHLOROPHENOL CAS# 87-86-5 | 1999 ± 25 | µg/mL | 97.9 | MKCD2150 |

ASSAY Method

J013597

TCL Phenols Mix 2000ug/ml
 Solvent / Lot: LRAD0139
 Prep: 12/30/2021 by VS
 Exp: 7/31/2024
 Location:





METHOD: GC (Bellefonte Method)

Column: SPB-5, 30 m x 0.53 mm I.D., 1.5 µm film thickness

Carrier Gas: H₂ Flow Rate: 4.5 mL/min

Inlet Temperature: 200 °C Injection Volume: 1.0 µL

Injection Mode: 25:1

Temperature Program: 80 °C (Hold 2 min) @ 6 °C/min to 260 °C (Hold 5 min)

Detector: FID Temperature: 310 °C

Elution details:

| EO | RT(MIN) | ANALYTE |
|----|---------|----------------------------|
| 1 | 7.095 | Phenol |
| 2 | 7.585 | 2-chlorophenol |
| 3 | 10.925 | 2-nitrophenol |
| 4 | 11.037 | 2,4-dimethylphenol |
| 5 | 11.696 | 2,4-dichlorophenol |
| 6 | 14.242 | 4-chloro-3-methylphenol |
| 7 | 15.842 | 2,4,6-trichlorophenol |
| 8 | 18.93 | 2,4-dinitrophenol |
| 9 | 19.25 | 4-nitrophenol |
| 10 | 21.05 | 4,6-dinitro-2-methylphenol |
| 11 | 23.752 | Pentachlorophenol |

Metrological traceability: Traceable to the SI and higher order standards from NIST through an unbroken chain of comparisons. The balance used to weigh raw materials is accurate to +/-0.0001 g and calibrated regularly using mass standards traceable to NIST. All dilutions were performed gravimetrically. Additionally, individual analytes are traceable to NIST SRMs where available and specified above.

Measurement method: Where applicable, the assigned value is based on a purity determination by mass balance and gravimetrically prepared value.

Intended use: Intended for R&D and Analytical Use only. Not for drug, household or other uses.

Packaging: 1 mL in amber ampule

Instructions for handling and correct use: Use on the as is basis. The internal pressure of the container may be slightly different from the atmospheric pressure at the user`s location. Open slowly and carefully to avoid dispersion of the material.

Health and safety information: All chemical reference materials should be considered potentially hazardous and should be used only by qualified laboratory personnel. Please refer to the Safety Data Sheet for detailed information about the nature of any hazard and appropriate precautions to be taken.

Accreditation: Sigma-Aldrich RTC is accredited by the US accreditation authority ANAB as a registered reference material producer AR-1470 in accordance with ISO 17034.

Certificate issue date: 12-Jul-2021



Andy Ommen

Mark Pooler

Andy Ommen - QC Manager

Mark Pooler - QA Supervisor

Details on metrological traceability:

This standard has been gravimetrically prepared using balances that have been fully qualified and calibrated to ISO 17025 requirements. All calibrations utilize NIST traceable weights which are calibrated externally by a qualified ISO 17025 accredited calibration laboratory to NIST standards. Qualification of each balance includes the assignment of a minimum weighing by a qualified and ISO 17025 accredited calibration vendor taking into consideration the balance and installed environmental conditions to ensure compliance with USP tolerances of NMT 0.10% relative error. Fill volume to predetermined specifications is gravimetrically verified throughout the dispensing process using qualified and calibrated balances. Further traceability to a corresponding Primary Standard may be achieved through a direct comparison assay. Where a Primary Standard is available, the assay value will be included in the specified section of the COA.

Associated uncertainty:

Ucrm - Uncertainty values in this document are expressed as Expanded Uncertainty (Ucrm) corresponding to the 95% confidence interval. Ucrm is derived from the combined standard uncertainty multiplied by the coverage factor k, which is obtained from a t-distribution and degrees of freedom. The components of combined standard uncertainty include the uncertainties due to characterization, homogeneity, long term stability, and short term stability (transport). The components due to stability are generally considered to be negligible unless otherwise indicated by stability studies. The mathematical representation of the Ucrm calculation is as follows:

$$u_{CRM} = \sqrt{u_{char}^2 + u_{homogeneity}^2 + u_{stability}^2}$$

Homogeneity assessment:

Homogeneity was assessed in accordance with ISO Guide 35. Completed units were sampled using a random stratified sampling protocol. The results of chemical analysis were then compared by Single Factor Analysis of Variance (ANOVA). The uncertainty due to homogeneity was derived from the ANOVA. Heterogeneity was not detected under the conditions of the ANOVA.

Stability assessment:

Significance of the stability assessment will be demonstrated if the analytical result of the study and the range of values represented by the Expanded Uncertainty do not overlap the result of the original assay and the range of its values represented by the Expanded Uncertainty. The method employed will usually be the same method used to characterize the assay value in the initial

Certificate of analysis revision history:

| Certificate version | Date | Reason for version |
|----------------------------|-------------|---------------------------|
| LRAD0139.01 | 12-Jul-2021 | Original Release Date |

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www.restek.com

K007194
 CLP 04.1 BNA SURR MIX
 Solvent / Lot: A0187400
 Prep: 8/5/2022 by VS
 Exp: 4/30/2026
 Location:

IAL



Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31493 **Lot No.:** A0187400
Description : CLP 04.1 BNA Surrogate Mix
CLP 04.1 BNA Surrogate Mix 1000-1500 µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : April 30, 2026 **Storage:** 10°C or colder
Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

| Elution Order | Compound | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.; K=2) | | | |
|---------------|---------------------------------|-----------------------------|--------------------------------------|---------|-------|-------------|
| | | | µg/mL | µg/mL | µg/mL | Gravimetric |
| 1 | 2-Fluorophenol | 1,508.0 µg/mL | +/- | 8.9571 | µg/mL | Gravimetric |
| | CAS # 367-12-4 (Lot STBJ3299) | | +/- | 44.0466 | µg/mL | Unstressed |
| | Purity 99% | | +/- | 53.4340 | µg/mL | Stressed |
| 2 | Phenol-d6 | 1,510.0 µg/mL | +/- | 8.9689 | µg/mL | Gravimetric |
| | CAS # 13127-88-3 (Lot SL210831) | | +/- | 44.1050 | µg/mL | Unstressed |
| | Purity 99% | | +/- | 53.5049 | µg/mL | Stressed |
| 3 | 2-Chlorophenol-d4 | 1,512.0 µg/mL | +/- | 8.9808 | µg/mL | Gravimetric |
| | CAS # 93951-73-6 (Lot PR-30568) | | +/- | 44.1635 | µg/mL | Unstressed |
| | Purity 99% | | +/- | 53.5758 | µg/mL | Stressed |
| 4 | 1,2-Dichlorobenzene-d4 | 1,004.0 µg/mL | +/- | 5.9635 | µg/mL | Gravimetric |
| | CAS # 2199-69-1 (Lot PR-32597) | | +/- | 29.3255 | µg/mL | Unstressed |
| | Purity 99% | | +/- | 35.5754 | µg/mL | Stressed |
| 5 | Nitrobenzene-d5 | 1,004.0 µg/mL | +/- | 5.9635 | µg/mL | Gravimetric |
| | CAS # 4165-60-0 (Lot PR-29940A) | | +/- | 29.3255 | µg/mL | Unstressed |
| | Purity 99% | | +/- | 35.5754 | µg/mL | Stressed |
| 6 | 2-Fluorobiphenyl | 1,004.0 µg/mL | +/- | 5.9635 | µg/mL | Gravimetric |
| | CAS # 321-60-8 (Lot 00021384) | | +/- | 29.3255 | µg/mL | Unstressed |
| | Purity 99% | | +/- | 35.5754 | µg/mL | Stressed |
| 7 | 2,4,6-Tribromophenol | 1,502.0 µg/mL | +/- | 8.9214 | µg/mL | Gravimetric |
| | CAS # 118-79-6 (Lot MKCJ7664) | | +/- | 43.8714 | µg/mL | Unstressed |
| | Purity 99% | | +/- | 53.2214 | µg/mL | Stressed |

| | | | | | | |
|---|-----------------|----------------|---------------|-------------|-------|-------------|
| 8 | p-Terphenyl-d14 | | 1,002.0 µg/mL | +/- 5.9516 | µg/mL | Gravimetric |
| | CAS # 1718-51-0 | (Lot PR-30504) | | +/- 29.2671 | µg/mL | Unstressed |
| | Purity 99% | | | +/- 35.5046 | µg/mL | Stressed |

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:

Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

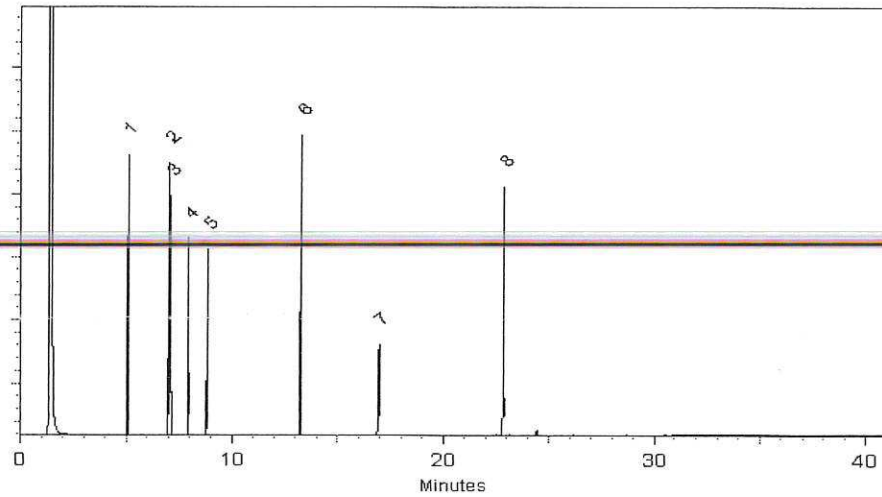
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Bryan Snyder
Bryan Snyder - Operations Tech I

Date Mixed: 17-Jul-2022 **Balance:** 1128353505

Christie Mills
Christie Mills - Operations Tech II - ARM QC

Date Passed: 21-Jul-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

| Label Conditions | Standard Conditions | Non-Standard Conditions |
|---|---------------------|-------------------------|
| 25°C Nominal (Room Temperature) | < 60°C | ≥ 60°C up to 7 days |
| 10°C or colder (Refrigerate) | < 40°C | ≥ 40°C up to 7 days |
| 0°C or colder (Freezer) -20°C or colder (Deep Freezer) | < 25°C | ≥ 25°C up to 7 days |

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Certificate of Analysis

Produced by Phenova

6390 Joyce Drive STE 100, Golden, CO 80403 USA ■ Tel: 303-940-0033 ■ Fax: 303-940-0043 ■ info@phenova.com
Access your Safety Data Sheets and digital Certificates at www.phenova.com/documents.

Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101444

Lot Number: CL18355

Description: 8270 Calibration Standard

Certification Date: July 25, 2022

Storage: -18 °C

Expiration Date: August 31, 2023

Provided As: 1 mL in 2 mL Ampoule in MeCl₂/Methanol (97:3)

K007995

SVOA-8270 LCS MIX 1000ug/ml

Solvent / Lot: N/A

Prep: 8/29/2022 by JZ

Exp: 8/31/2023

Location: FREEZER 44



Aaron Dukes, Certified Reference Materials Manager

| Component | CAS # | Certified Value µg/mL | Expanded Uncertainty |
|------------------------------|----------|--------------------------|----------------------|
| Acenaphthene | 83-32-9 | 1000 | ± 0.300% |
| Acenaphthylene | 208-96-8 | 1000 | ± 0.225% |
| Anthracene | 120-12-7 | 1000 | ± 6.858% |
| Azobenzene | 103-33-3 | 1000 | ± 0.224% |
| Benzo(a)anthracene | 56-55-3 | 1000 | ± 0.247% |
| Benzo(a)pyrene | 50-32-8 | 1000 | ± 0.270% |
| Benzo(b)fluoranthene | 205-99-2 | 1000 | ± 0.635% |
| Benzo(k)fluoranthene | 207-08-9 | 1000 | ± 0.682% |
| Benzo(g,h,i)perylene | 191-24-2 | 1000 | ± 0.272% |
| Benzyl alcohol | 100-51-6 | 1000 | ± 0.231% |
| Benzyl butyl phthalate | 85-68-7 | 1000 | ± 0.480% |
| bis(2-Chloroethoxy)methane | 111-91-1 | 1000 | ± 0.479% |
| bis(2-Chloroethyl) ether | 111-44-4 | 1000 | ± 0.479% |
| bis(2-Chloroisopropyl) ether | 108-60-1 | 1000 | ± 0.550% |
| bis(2-Ethylhexyl) adipate | 103-23-1 | 1000 | ± 0.479% |
| bis(2-Ethylhexyl) phthalate | 117-81-7 | 1000 | ± 0.479% |
| 4-Bromophenyl phenyl ether | 101-55-3 | 1000 | ± 0.479% |
| Carbazole | 86-74-8 | 1000 | ± 0.146% |

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Certified Reference Material

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Catalog No.: AL0-101444

Lot Number: CL18355

Description: 8270 Calibration Standard

Certification Date: July 25, 2022

Storage: -18 °C

Expiration Date: August 31, 2023

Provided As: 1 mL in 2 mL Ampoule in MeCl₂/Methanol (97:3)

| Component | CAS # | Certified Value µg/mL | Expanded Uncertainty |
|-----------------------------|-----------|--------------------------|----------------------|
| 4-Chloroaniline | 106-47-8 | 1000 | ± 0.300% |
| 4-Chloro-3-methylphenol | 59-50-7 | 1000 | ± 0.545% |
| 2-Chloronaphthalene | 91-58-7 | 1000 | ± 0.224% |
| 2-Chlorophenol | 95-57-8 | 1000 | ± 0.507% |
| 4-Chlorophenyl phenyl ether | 7005-72-3 | 1000 | ± 0.479% |
| Chrysene | 218-01-9 | 1000 | ± 0.145% |
| Dibenz(a,h)anthracene | 53-70-3 | 1000 | ± 1.058% |
| Dibenzofuran | 132-64-9 | 1000 | ± 0.302% |
| Di-n-butyl phthalate | 84-74-2 | 1000 | ± 0.518% |
| 1,2-Dichlorobenzene | 95-50-1 | 1000 | ± 0.247% |
| 1,3-Dichlorobenzene | 541-73-1 | 1000 | ± 0.225% |
| 1,4-Dichlorobenzene | 106-46-7 | 1000 | ± 0.224% |
| 2,4-Dichlorophenol | 120-83-2 | 1000 | ± 0.545% |
| Diethyl phthalate | 84-66-2 | 1000 | ± 0.518% |
| 2,4-Dimethylphenol | 105-67-9 | 1000 | ± 0.507% |
| Dimethyl phthalate | 131-11-3 | 1000 | ± 0.518% |
| 1,2-Dinitrobenzene | 528-29-0 | 1000 | ± 0.361% |
| 1,3-Dinitrobenzene | 99-65-0 | 1000 | ± 0.300% |
| 1,4-Dinitrobenzene | 100-25-4 | 1000 | ± 0.242% |
| 2,4-Dinitrophenol | 51-28-5 | 1000 | ± 0.545% |
| 2,4-Dinitrotoluene | 121-14-2 | 1000 | ± 1.128% |

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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101444 **Lot Number:** CL18355
Description: 8270 Calibration Standard **Certification Date:** July 25, 2022
Storage: -18 °C **Expiration Date:** August 31, 2023
Provided As: 1 mL in 2 mL Ampoule in MeCl₂/Methanol (97:3)

| Component | CAS # | Certified Value µg/mL | Expanded Uncertainty |
|----------------------------|----------|--------------------------|----------------------|
| 2,6-Dinitrotoluene | 606-20-2 | 1000 | ± 0.224% |
| Di-n-octyl phthalate | 117-84-0 | 1000 | ± 0.486% |
| Fluoranthene | 206-44-0 | 1000 | ± 0.224% |
| Fluorene | 86-73-7 | 1000 | ± 0.224% |
| Hexachlorobenzene | 118-74-1 | 1000 | ± 0.152% |
| Hexachlorobutadiene | 87-68-3 | 1000 | ± 0.746% |
| Hexachlorocyclopentadiene | 77-47-4 | 1000 | ± 0.153% |
| Hexachloroethane | 67-72-1 | 1000 | ± 0.300% |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | 1000 | ± 0.883% |
| Isophorone | 78-59-1 | 1000 | ± 0.145% |
| 2-Methyl-4,6-dinitrophenol | 534-52-1 | 1000 | ± 0.508% |
| 1-Methylnaphthalene | 90-12-0 | 1000 | ± 0.479% |
| 2-Methylnaphthalene | 91-57-6 | 1000 | ± 0.487% |
| 2-Methylphenol | 95-48-7 | 1000 | ± 0.545% |
| 3-Methylphenol | 108-39-4 | 500 | ± 0.279% |
| 4-Methylphenol | 106-44-5 | 500 | ± 0.399% |
| Naphthalene | 91-20-3 | 1000 | ± 0.226% |
| 2-Nitroaniline | 88-74-4 | 1000 | ± 0.224% |
| 3-Nitroaniline | 99-09-2 | 1000 | ± 0.235% |
| 4-Nitroaniline | 100-01-6 | 1000 | ± 0.300% |
| Nitrobenzene | 98-95-3 | 1000 | ± 0.300% |

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Certified Reference Material

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Catalog No.: AL0-101444 **Lot Number:** CL18355
Description: 8270 Calibration Standard **Certification Date:** July 25, 2022
Storage: -18 °C **Expiration Date:** August 31, 2023
Provided As: 1 mL in 2 mL Ampoule in MeCl₂/Methanol (97:3)

| Component | CAS # | Certified Value µg/mL | Expanded Uncertainty |
|---------------------------|----------|--------------------------|----------------------|
| 2-Nitrophenol | 88-75-5 | 1000 | ± 0.514% |
| 4-Nitrophenol | 100-02-7 | 1000 | ± 0.519% |
| N-Nitrosodimethylamine | 62-75-9 | 1000 | ± 0.503% |
| N-Nitrosodiphenylamine | 86-30-6 | 1000 | ± 0.476% |
| N-Nitrosodi-n-propylamine | 621-64-7 | 1000 | ± 0.461% |
| Pentachlorophenol | 87-86-5 | 1000 | ± 0.202% |
| Phenanthrene | 85-01-8 | 1000 | ± 0.145% |
| Phenol | 108-95-2 | 1000 | ± 0.545% |
| Pyrene | 129-00-0 | 1000 | ± 0.147% |
| Pyridine | 110-86-1 | 1000 | ± 0.503% |
| 2,3,4,6-Tetrachlorophenol | 58-90-2 | 1000 | ± 0.247% |
| 2,3,5,6-Tetrachlorophenol | 935-95-5 | 1000 | ± 0.247% |
| 1,2,4-Trichlorobenzene | 120-82-1 | 1000 | ± 0.224% |
| 2,4,5-Trichlorophenol | 95-95-4 | 1000 | ± 0.507% |
| 2,4,6-Trichlorophenol | 88-06-2 | 1000 | ± 0.509% |

Notes: The proper chemical name for Bis(2-Chloroisopropyl) ether is 2,2'-oxybis(1-chloropropane). The analytical uncertainty contribution to the expanded uncertainty for 3 and 4-Methylphenol is measured as the total of the two analytes. N-Nitrosodiphenylamine presents as Diphenylamine at 854 µg/mL.

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1. Quality Document: This Certificate of Analysis has been created in accordance with ISO Guide 31¹ and ISO Guide 35.²
2. Quality Standards: Phenova is accredited by A2LA to ISO 17034³ and ISO/IEC 17025⁴ as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.
3. Intended Use: The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.
4. Handling and Usage Notes: Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.
5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.
6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.
7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.
8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.
9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98⁵ and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$u_{CRM} = \sqrt{u_M^2 + u_H^2 + u_{LTS}^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.
11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.
12. Period of Validity: The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

- ¹ ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.
- ² ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
- ³ ISO 17034 – General Requirements for the Competence of Reference Material Producers.
- ⁴ ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
- ⁵ ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)



Reference Material Producer
Certificate No. 2427.02



Phenova is an accredited ISO/IEC 17034 Reference Material
Producer and ISO/IEC 17025 accredited Chemical Testing Laboratory.



Chemical Testing Laboratory
Certificate No. 2427.03

Certificate of Composition - Analytical Standard

BASE STOCK

Product no.: 22523051
Lot no.: LRAD2751
Expiry Date: June 2024
Manufacturing Date: June 2022
Storage: REFRIGERATE
Solvent/Matrix: DICHLOROMETHANE
Certificate version: LRAD2751.01 (Note: Certificates may be updated due to the availability of new data. Check our website at: www.sigma-aldrich.com for the most current version.)

| Analyte | Assigned Value | Units | Raw Material Purity, % | Raw Material Lot |
|---|----------------|-------|------------------------|------------------|
| 3,3'-DICHLOROBENZIDINE, 100MG, NEAT CAS# 91-94-1 | 799 | µg/mL | 99.8 | LRAD2376 |
| 2,4-DINITROTOLUENE CAS# 121-14-2 | 801 | µg/mL | 97.8 | LB46632 |
| 2,6-DINITROTOLUENE CAS# 606-20-2 | 800 | µg/mL | 99.2 | 11231AN |
| HEXACHLOROCYCLOPENTADIENE CAS# 77-47-4 | 800 | µg/mL | 96.0 | LB95525 |
| N-NITROSODIMETHYLAMINE CAS# 62-75-9 | 800 | µg/mL | 95.0 | 2019-030598 5 |
| PERYLENE CAS# 198-55-0 | 200 | µg/mL | 99.6 | 04101PG |
| ANILINE CAS# 62-53-3 | 800 | µg/mL | 99.9 | LA41596 |
| 4-CHLOROANILINE CAS# 106-47-8 | 800 | µg/mL | 100.0 | MKBZ6909V |
| 2-NITROANILINE CAS# 88-74-4 | 799 | µg/mL | 99.9 | 07411KN |
| 3-NITROANILINE CAS# 99-09-2 | 800 | µg/mL | 99.9 | LC09264 |
| 4-NITROANILINE CAS# 100-01-6 | 800 | µg/mL | 99.9 | 15609AA |
| PYRIDINE (LOW WATER) CAS# 110-86-1 | 800 | µg/mL | 100.0 | SHBJ9218 |

Measurement method: Where applicable, the assigned value is based on a purity determination by mass balance and gravimetrically prepared value.

Intended use: Intended for R&D and Analytical Use only. Not for drug, household or other uses.

Packaging: 1 mL in amber ampule

Instructions for handling and correct use: Use on the as is basis. The internal pressure of the container may be slightly different from the atmospheric pressure at the user's location. Open slowly and carefully to avoid dispersion of the material.



Health and safety information:

All chemical reference materials should be considered potentially hazardous and should be used only by qualified laboratory personnel. Please refer to the Safety Data Sheet for detailed information about the nature of any hazard and appropriate precautions to be taken.

Certificate issue date:

03 JUN 2022



Andy Ommen - QC Manager



Scott Stetler - QA Manager

Certificate of analysis revision history:

| Certificate version | Date | Reason for version |
|---------------------|-------------|-----------------------|
| LRAD2751.01 | 03 JUN 2022 | Original Release Date |

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Certificate of Composition - Analytical Standard

ACID STOCK

Product no.: 22523046
Lot no.: LRAD2750
Expiry Date: June 2024
Manufacturing Date: June 2022
Storage: REFRIGERATE
Solvent/Matrix: DICHLOROMETHANE
Certificate version: LRAD2750.01 (Note: Certificates may be updated due to the availability of new data. Check our website at: www.sigma-aldrich.com for the most current version.)

| Analyte | Assigned Value | Units | Raw Material Purity, % | Raw Material Lot |
|---|----------------|-------|------------------------|------------------|
| 2,4-DIMETHYLPHENOL CAS# 105-67-9 | 800 | µg/mL | 99.9 | LB88935 |
| 2,4-DICHLOROPHENOL CAS# 120-83-2 | 800 | µg/mL | 100.0 | BCBZ6787 |
| 2,4,5-TRICHLOROPHENOL CAS# 95-95-4 | 801 | µg/mL | 99.9 | JS00008 |
| 2,4-DINITROPHENOL CAS# 51-28-5 | 1799 | µg/mL | 66.9 | STBJ5751 |
| 2,4,6-TRICHLOROPHENOL CAS# 88-06-2 | 800 | µg/mL | 98.7 | LB82983 |
| 4-CHLORO-3-METHYLPHENOL CAS# 59-50-7 | 800 | µg/mL | 100.0 | BCCD4461 |
| 4-NITROPHENOL CAS# 100-02-7 | 800 | µg/mL | 100.0 | MKCN1089 |
| 2-METHYL-4,6-DINITROPHENOL CAS# 534-52-1 | 1800 | µg/mL | 100.0 | BCBX5762 |
| PENTACHLOROPHENOL CAS# 87-86-5 | 800 | µg/mL | 99.0 | 23614-01 |
| BENZOIC ACID CAS# 65-85-0 | 1800 | µg/mL | 99.9 | LC16514 |

Measurement method: Where applicable, the assigned value is based on a purity determination by mass balance and gravimetrically prepared value.

Intended use: Intended for R&D and Analytical Use only. Not for drug, household or other uses.

Packaging: 1 mL in amber ampule

Instructions for handling and correct use: Use on the as is basis. The internal pressure of the container may be slightly different from the atmospheric pressure at the user's location. Open slowly and carefully to avoid dispersion of the material.

Health and safety information: All chemical reference materials should be considered potentially hazardous and should be used only by qualified laboratory personnel. Please refer to the Safety Data Sheet for detailed information about the nature of any hazard and appropriate precautions to be taken.



Certificate issue date: 03 JUN 2022



Andy Ommen - QC Manager



Scott Stetler - QA Manager

Certificate of analysis revision history:

| Certificate version | Date | Reason for version |
|---------------------|-------------|-----------------------|
| LRAD2750.01 | 03 JUN 2022 | Original Release Date |

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Certified Reference Material

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Catalog No.: AL0-101244

Lot Number: CL18939

Description: Benzidines Standard

Certification Date: September 7, 2022

Storage: 4 °C

Expiration Date: August 31, 2032

Provided As: 1 mL in 2 mL Ampoule in Methylene Chloride



Aaron Dukes, Certified Reference Materials Manager

| Component | CAS # | Certified Value µg/mL | Expanded Uncertainty |
|------------------------|---------|--------------------------|----------------------|
| Benzidine | 92-87-5 | 2000 | ± 3.812% |
| 3,3'-Dichlorobenzidine | 91-94-1 | 2000 | ± 1.419% |

L001288

Benzidines std @2000ug/ml
Solvent / Lot: CL18939
Prep: 2/7/2023 by VS
Exp: 8/31/2032
Location: GC



Reference Material Producer
Certificate No. 2427.02



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Chemical Testing Laboratory
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Certified Reference Material

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Catalog No.: AL0-101443

Lot Number: CL18741

Description: Aniline

Certification Date: July 21, 2022

Storage: 4 °C

Expiration Date: July 31, 2030

Provided As: 1 mL in 2 mL Ampoule in Methylene Chloride



Aaron Duker, Certified Reference Materials Manager

| Component | CAS # | Certified Value µg/mL | Expanded Uncertainty |
|-----------|---------|--------------------------|----------------------|
| Aniline | 62-53-3 | 1000 | ± 1.719% |

L001290

Aniline-1000ug/mL
Solvent / Lot: CL18741
Prep: 2/7/2023 by VS
Exp: 7/31/2030
Location: GC



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Certificate No. 2427.02



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Certified Reference Material

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Catalog No.: AL0-101444

Lot Number: CL18811

Description: 8270 Calibration Standard

Certification Date: August 9, 2022

Storage: -18 °C

Expiration Date: November 30, 2023

Provided As: 1 mL in 2 mL Ampoule in MeCl₂/Methanol (97:3)



L001291
SVOA-8270 LCS MIX 1000ug/ml
Solvent / Lot: CL18811
Prep: 2/7/2023 by VS
Exp: 11/30/2023
Location: FREEZER 44

Aaron Duker, Certified Reference Materials Manager

| Component | CAS # | µg/mL | Expanded Uncertainty |
|------------------------------|----------|-------|----------------------|
| Acenaphthene | 83-32-9 | 1000 | ± 1.643% |
| Acenaphthylene | 208-96-8 | 1000 | ± 1.317% |
| Anthracene | 120-12-7 | 1000 | ± 2.136% |
| Azobenzene | 103-33-3 | 1000 | ± 1.630% |
| Benzo(a)anthracene | 56-55-3 | 1000 | ± 2.372% |
| Benzo(a)pyrene | 50-32-8 | 1000 | ± 3.028% |
| Benzo(b)fluoranthene | 205-99-2 | 1000 | ± 2.377% |
| Benzo(k)fluoranthene | 207-08-9 | 1000 | ± 2.286% |
| Benzo(g,h,i)perylene | 191-24-2 | 1000 | ± 2.561% |
| Benzyl alcohol | 100-51-6 | 1000 | ± 1.803% |
| Benzyl butyl phthalate | 85-68-7 | 1000 | ± 1.855% |
| bis(2-Chloroethoxy)methane | 111-91-1 | 1000 | ± 1.626% |
| bis(2-Chloroethyl) ether | 111-44-4 | 1000 | ± 1.776% |
| bis(2-Chloroisopropyl) ether | 108-60-1 | 1000 | ± 2.406% |
| bis(2-Ethylhexyl) adipate | 103-23-1 | 1000 | ± 2.415% |
| bis(2-Ethylhexyl) phthalate | 117-81-7 | 1000 | ± 2.350% |
| 4-Bromophenyl phenyl ether | 101-55-3 | 1000 | ± 1.708% |
| Carbazole | 86-74-8 | 1000 | ± 1.844% |



Reference Material Producer
Certificate No. 2427.02



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Chemical Testing Laboratory
Certificate No. 2427.03

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Catalog No.: AL0-101444

Lot Number: CL18811

Description: 8270 Calibration Standard

Certification Date: August 9, 2022

Storage: -18 °C

Expiration Date: November 30, 2023

Provided As: 1 mL in 2 mL Ampoule in MeCl₂/Methanol (97:3)

| Component | CAS # | Certified Value µg/mL | Expanded Uncertainty |
|-----------------------------|-----------|--------------------------|----------------------|
| 4-Chloroaniline | 106-47-8 | 1000 | ± 2.831% |
| 4-Chloro-3-methylphenol | 59-50-7 | 1000 | ± 1.571% |
| 2-Chloronaphthalene | 91-58-7 | 1000 | ± 2.022% |
| 2-Chlorophenol | 95-57-8 | 1000 | ± 2.001% |
| 4-Chlorophenyl phenyl ether | 7005-72-3 | 1000 | ± 1.634% |
| Chrysene | 218-01-9 | 1000 | ± 2.358% |
| Dibenz(a,h)anthracene | 53-70-3 | 1000 | ± 2.452% |
| Dibenzofuran | 132-64-9 | 1000 | ± 0.310% |
| Di-n-butyl phthalate | 84-74-2 | 1000 | ± 2.347% |
| 1,2-Dichlorobenzene | 95-50-1 | 1000 | ± 1.803% |
| 1,3-Dichlorobenzene | 541-73-1 | 1000 | ± 1.808% |
| 1,4-Dichlorobenzene | 106-46-7 | 1000 | ± 1.503% |
| 2,4-Dichlorophenol | 120-83-2 | 1000 | ± 1.393% |
| Diethyl phthalate | 84-66-2 | 1000 | ± 1.870% |
| 2,4-Dimethylphenol | 105-67-9 | 1000 | ± 2.495% |
| Dimethyl phthalate | 131-11-3 | 1000 | ± 2.113% |
| 1,2-Dinitrobenzene | 528-29-0 | 1000 | ± 0.240% |
| 1,3-Dinitrobenzene | 99-65-0 | 1000 | ± 1.221% |
| 1,4-Dinitrobenzene | 100-25-4 | 1000 | ± 0.246% |
| 2,4-Dinitrophenol | 51-28-5 | 1000 | ± 0.519% |
| 2,4-Dinitrotoluene | 121-14-2 | 1000 | ± 2.242% |



Reference Material Producer
Certificate No. 2427.02



Phenova is an accredited ISO/IEC 17034 Reference Material
Producer and ISO/IEC 17025 accredited Chemical Testing Laboratory.



Chemical Testing Laboratory
Certificate No. 2427.03

Certificate of Analysis

Produced by Phenova

6390 Joyce Drive STE 100, Golden, CO 80403 USA ■ Tel: 303-940-0033 ■ Fax: 303-940-0043 ■ info@phenova.com
Access your Safety Data Sheets and digital Certificates at www.phenova.com/documents.

Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101444 **Lot Number:** CL18811
Description: 8270 Calibration Standard **Certification Date:** August 9, 2022
Storage: -18 °C **Expiration Date:** November 30, 2023
Provided As: 1 mL in 2 mL Ampoule in MeCl₂/Methanol (97:3)

| Component | CAS # | Certified Value µg/mL | Expanded Uncertainty |
|----------------------------|----------|--------------------------|----------------------|
| 2,6-Dinitrotoluene | 606-20-2 | 1000 | ± 2.154% |
| Di-n-octyl phthalate | 117-84-0 | 1000 | ± 2.670% |
| Fluoranthene | 206-44-0 | 1000 | ± 2.103% |
| Fluorene | 86-73-7 | 1000 | ± 0.890% |
| Hexachlorobenzene | 118-74-1 | 1000 | ± 1.210% |
| Hexachlorobutadiene | 87-68-3 | 1000 | ± 1.304% |
| Hexachlorocyclopentadiene | 77-47-4 | 1000 | ± 1.510% |
| Hexachloroethane | 67-72-1 | 1000 | ± 3.281% |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | 1000 | ± 1.921% |
| Isophorone | 78-59-1 | 1000 | ± 2.022% |
| 2-Methyl-4,6-dinitrophenol | 534-52-1 | 1000 | ± 1.661% |
| 1-Methylnaphthalene | 90-12-0 | 1000 | ± 1.929% |
| 2-Methylnaphthalene | 91-57-6 | 1000 | ± 2.220% |
| 2-Methylphenol | 95-48-7 | 1000 | ± 2.168% |
| 3-Methylphenol | 108-39-4 | 500 | ± 1.025% |
| 4-Methylphenol | 106-44-5 | 500 | ± 1.064% |
| Naphthalene | 91-20-3 | 1000 | ± 1.199% |
| 2-Nitroaniline | 88-74-4 | 1000 | ± 1.874% |
| 3-Nitroaniline | 99-09-2 | 1000 | ± 2.146% |
| 4-Nitroaniline | 100-01-6 | 1000 | ± 0.300% |
| Nitrobenzene | 98-95-3 | 1000 | ± 1.704% |



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Catalog No.: AL0-101444 **Lot Number:** CL18811
Description: 8270 Calibration Standard **Certification Date:** August 9, 2022
Storage: -18 °C **Expiration Date:** November 30, 2023
Provided As: 1 mL in 2 mL Ampoule in MeCl₂/Methanol (97:3)

| Component | CAS # | Certified Value µg/mL | Expanded Uncertainty |
|---------------------------|----------|--------------------------|----------------------|
| 2-Nitrophenol | 88-75-5 | 1000 | ± 2.051% |
| 4-Nitrophenol | 100-02-7 | 1000 | ± 1.413% |
| N-Nitrosodimethylamine | 62-75-9 | 1000 | ± 0.545% |
| N-Nitrosodiphenylamine | 86-30-6 | 1000 | ± 1.669% |
| N-Nitrosodi-n-propylamine | 621-64-7 | 1000 | ± 0.712% |
| Pentachlorophenol | 87-86-5 | 1000 | ± 2.454% |
| Phenanthrene | 85-01-8 | 1000 | ± 2.072% |
| Phenol | 108-95-2 | 1000 | ± 2.140% |
| Pyrene | 129-00-0 | 1000 | ± 1.869% |
| Pyridine | 110-86-1 | 1000 | ± 0.545% |
| 2,3,4,6-Tetrachlorophenol | 58-90-2 | 1000 | ± 2.552% |
| 2,3,5,6-Tetrachlorophenol | 935-95-5 | 1000 | ± 2.220% |
| 1,2,4-Trichlorobenzene | 120-82-1 | 1000 | ± 1.632% |
| 2,4,5-Trichlorophenol | 95-95-4 | 1000 | ± 1.596% |
| 2,4,6-Trichlorophenol | 88-06-2 | 1000 | ± 0.481% |

Notes: The proper chemical name for Bis(2-Chloroisopropyl) ether is 2,2'-oxybis(1-chloropropane). The analytical uncertainty contribution to the expanded uncertainty for 3 and 4-Methylphenol is measured as the total of the two analytes. N-Nitrosodiphenylamine presents as Diphenylamine at 854 µg/mL.



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Produced by Phenova

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Access your Safety Data Sheets and digital Certificates at www.phenova.com/documents.

1. **Quality Document:** This Certificate of Analysis has been created in accordance with ISO Guide 31¹ and ISO Guide 35.²
2. **Quality Standards:** Phenova is accredited by A2LA to ISO 17034³ and ISO/IEC 17025⁴ as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.
3. **Intended Use:** The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.
4. **Handling and Usage Notes:** Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.
5. **Hazardous Situation:** The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.
6. **Level of Homogeneity:** The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.
7. **Certified Value:** Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.
8. **Raw Materials and Purity:** Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.
9. **Expanded Uncertainty:** The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98⁵ and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. **Metrological Traceability:** The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.
11. **Values Obtained During Product Testing:** This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.
12. **Period of Validity:** The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

- ¹ ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.
- ² ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
- ³ ISO 17034 – General Requirements for the Competence of Reference Material Producers.
- ⁴ ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
- ⁵ ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)



Reference Material Producer
Certificate No. 2427.02



Phenova is an accredited ISO/IEC 17034 Reference Material
Producer and ISO/IEC 17025 accredited Chemical Testing Laboratory.



Chemical Testing Laboratory
Certificate No. 2427.03



Dual Column

LDW23-SC1164

ORGANIC ANALYSIS DATA SHEET
EPA 8081B

| | | | |
|-------------|----------------------------------|----------------|-----------------------------|
| Laboratory: | <u>Analytical Resources, LLC</u> | SDG: | <u>23A0180</u> |
| Client: | <u>Anchor QEA, LLC</u> | | |
| Project: | <u>AOC5 MR Phase 1</u> | | |
| Matrix: | <u>Solid</u> | Laboratory ID: | <u>23A0180-01 A</u> |
| | | File ID: | <u>23020944.D</u> |
| Sampled: | <u>01/10/23 08:05</u> | Prepared: | <u>01/26/23 12:35</u> |
| | | Analyzed: | <u>02/10/23 08:19</u> |
| % Solids: | <u>51.36</u> | Preparation: | <u>EPA 3546 (Microwave)</u> |
| | | Initial/Final: | <u>24.62 g Wet / 2.5 mL</u> |
| Batch: | <u>BLA0556</u> | Sequence: | <u>SLB0156</u> |
| | | Calibration: | <u>FL00041</u> |
| Instrument: | <u>ECD6</u> | Column 1: | <u>STX-CLP</u> |
| | | Column 2: | <u>STX-CLPII</u> |

| CAS NO. | COMPOUND | Col # | DILUTION | CONC. (ug/kg dry) | MDL | MRL | Q |
|------------------------------|-------------------|----------|-------------------|-------------------|-------------|-----------------|---|
| 118-74-1 | Hexachlorobenzene | 1 | 1 | 0.49 | 0.14 | 0.49 | U |
| SURROGATES | | Col # | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
| <i>Decachlorobiphenyl</i> | | <i>1</i> | <i>7.9084</i> | <i>7.66</i> | <i>96.9</i> | <i>30 - 160</i> | |
| <i>Tetrachlorometaxylene</i> | | <i>1</i> | <i>7.9084</i> | <i>5.14</i> | <i>65.0</i> | <i>30 - 160</i> | |

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230209.b/23020944.D
Data file 2: /20230209.b/B20230209.b/23020944.D
Method: \20230209.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: AA/JR

ARI ID: 23A0180-01
Client ID:
Injection Date: 10-FEB-2023 08:19
Report Date: 02/11/2023 07:21
Units: ng/mL
Dilution Factor: 1.000

| STX-CLP Col | | | CLP2 Col | | | STX-CLP | CLP2 | RPD | Compound/Flag |
|-------------|--------|----------|----------|--------|----------|---------|--------|--------|----------------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | |
| 4.317 | 0.006 | 95021 | 4.819 | -0.014 | 19200 | 5.27 | 0.70 | 152.8* | alpha-BHC |
| 4.720 | 0.027 | 16177 | 5.316 | 0.007 | 26474 | 2.33 | 2.55 | 9.3 | beta-BHC |
| 4.871 | -0.005 | 168275 | ---- | | | 11.41 | 0.00 | --- | delta-BHC |
| 4.601 | -0.011 | 70981 | 5.208 | -0.021 | 12598 | 4.54 | 0.54 | 157.1* | gamma-BHC (Lindane) |
| 5.066 | -0.026 | 40772 | 5.747 | -0.008 | 84152 | 2.93 | 4.02 | 31.3 | Heptachlor |
| 5.419 | 0.005 | 147628 | 6.140 | -0.018 | 25455 | 9.46 | 1.06 | 159.6* | Aldrin |
| 6.061 | -0.027 | 71969 | ---- | | | 5.32 | 0.00 | --- | Heptachlor epoxide b |
| ---- | | | ---- | | | 0.00 | 0.00 | --- | Endosulfan I |
| ---- | | | ---- | | | 0.00 | 0.00 | --- | Dieldrin |
| 6.432 | -0.020 | 262355 | 7.320 | -0.022 | 129512 | 21.18 | 7.33 | 97.2* | 4,4'-DDE |
| 7.051 | 0.010 | 773746 | 7.887 | 0.011 | 687116 | 80.86 | 54.12 | 39.6 | Endrin |
| 7.291 | 0.013 | 44908 | 8.078 | -0.009 | 280058 | 5.21 | 21.52 | 122.0* | Endosulfan II |
| ---- | | | 7.927 | -0.021 | 123678 | 0.00 | 10.01 | --- | 4,4'-DDD |
| ---- | | | 8.702 | 0.016 | 238628 | 0.00 | 20.88 | --- | Endosulfan sulfate |
| ---- | | | 8.256 | -0.010 | 1081683 | 0.00 | 90.75 | --- | 4,4'-DDT |
| 7.895 | 0.018 | 95416 | 8.927 | 0.018 | 53682 | 24.72 | 10.18 | 83.3* | Methoxychlor |
| ---- | | | 9.210 | -0.000 | 820276 | 0.00 | 66.46 | --- | Endrin ketone |
| 7.716 | 0.009 | 284498 | 8.395 | -0.024 | 259250 | 41.41 | 28.24 | 37.8 | Endrin aldehyde |
| ---- | | | 7.040 | 0.015 | 387155 | 0.00 | 19.62 | --- | trans-Chlordane |
| 6.381 | 0.005 | 165123 | 7.163 | -0.021 | 32302 | 11.98 | 1.67 | 151.0* | cis-Chlordane |
| 2.280 | -0.024 | 13992 | 2.504 | 0.022 | 4120 | 0.74 | 0.16 | 129.2* | Hexachlorobutadiene |
| ---- | | | ---- | | | 0.00 | 0.00 | --- | Hexachlorobenzene |
| 3.790 | -0.010 | 331566 | 4.181 | -0.015 | 509322 | 26.01 | 26.60 | 2.2 | Tetrachloro-m-xylene |
| 9.309 | -0.010 | 286573 | 10.404 | -0.025 | 398981 | 38.75 | 40.43 | 4.2 | Decachlorobiphenyl |

* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 672426 | 937435 | 39.4 |
| Hexabromobiphenyl | 609723 | 729854 | 19.7 |

| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 1006482 | 1360362 | 35.2 |
| Hexabromobiphenyl | 769764 | 892940 | 16.0 |

* Standard Areas taken from Initial Cal Level 5

Initial Calibration Date: 14-DEC-2022

<- Indicates standard response outside Limits (-50 to +100%)



Dual Column

LDW23-SC1164-FD

ORGANIC ANALYSIS DATA SHEET
EPA 8081B

| | |
|--|--|
| Laboratory: <u>Analytical Resources, LLC</u> | SDG: <u>23A0180</u> |
| Client: <u>Anchor QEA, LLC</u> | |
| Project: <u>AOC5 MR Phase 1</u> | |
| Matrix: <u>Solid</u> | Laboratory ID: <u>23A0180-02 A</u> |
| | File ID: <u>23020945.D</u> |
| Sampled: <u>01/10/23 08:05</u> | Prepared: <u>01/26/23 12:35</u> |
| | Analyzed: <u>02/10/23 08:37</u> |
| % Solids: <u>53.01</u> | Preparation: <u>EPA 3546 (Microwave)</u> |
| | Initial/Final: <u>23.79 g Wet / 2.5 mL</u> |
| Batch: <u>BLA0556</u> | Sequence: <u>SLB0156</u> |
| | Calibration: <u>FL00041</u> |
| Instrument: <u>ECD6</u> | Column 1: <u>STX-CLP</u> |
| | Column 2: <u>STX-CLPII</u> |

| CAS NO. | COMPOUND | Col # | DILUTION | CONC. (ug/kg dry) | MDL | MRL | Q |
|----------|-------------------|-------|----------|-------------------|------|------|---|
| 118-74-1 | Hexachlorobenzene | 1 | 1 | 0.50 | 0.14 | 0.50 | U |

| SURROGATES | Col # | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|------------------------------|-------|-------------------|------------------|-------|-----------|---|
| <i>Decachlorobiphenyl</i> | 1 | 7.9295 | 7.47 | 94.2 | 30 - 160 | |
| <i>Tetrachlorometaxylene</i> | 1 | 7.9295 | 5.24 | 66.1 | 30 - 160 | |

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230209.b/23020945.D
Data file 2: /20230209.b/B20230209.b/23020945.D
Method: \20230209.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: AA/JR

ARI ID: 23A0180-02
Client ID:
Injection Date: 10-FEB-2023 08:37
Report Date: 02/11/2023 07:22
Units: ng/mL
Dilution Factor: 1.000

| RT | STX-CLP Col Shift Response | CLP2 Col Response | RT | CLP2 Col Shift Response | CLP2 Col Response | STX-CLP on col | CLP2 on col | RPD | Compound/Flag |
|-------|-------------------------------|----------------------|--------|----------------------------|----------------------|-------------------|----------------|--------|----------------------|
| 4.317 | 0.006 | 95409 | 4.819 | -0.014 | 18995 | 5.29 | 0.70 | 153.0* | alpha-BHC |
| 4.674 | -0.019 | 15480 | 5.316 | 0.007 | 26754 | 2.23 | 2.61 | 15.7 | beta-BHC |
| 4.871 | -0.005 | 168521 | ---- | ---- | ---- | 11.44 | 0.00 | --- | delta-BHC |
| 4.602 | -0.010 | 61633 | 5.209 | -0.020 | 12498 | 3.94 | 0.55 | 151.3* | gamma-BHC (Lindane) |
| 5.067 | -0.026 | 41931 | 5.746 | -0.008 | 84429 | 3.02 | 4.07 | 29.8 | Heptachlor |
| 5.419 | 0.005 | 152087 | 6.140 | -0.018 | 28507 | 9.76 | 1.20 | 156.1* | Aldrin |
| 6.061 | -0.027 | 73999 | ---- | ---- | ---- | 5.48 | 0.00 | --- | Heptachlor epoxide b |
| ---- | ---- | ---- | ---- | ---- | ---- | 0.00 | 0.00 | --- | Endosulfan I |
| ---- | ---- | ---- | ---- | ---- | ---- | 0.00 | 0.00 | --- | Dieldrin |
| 6.432 | -0.020 | 271227 | 7.321 | -0.021 | 132469 | 21.93 | 7.58 | 97.3* | 4,4'-DDE |
| 7.052 | 0.011 | 643129 | 7.887 | 0.012 | 535546 | 68.45 | 42.14 | 47.6* | Endrin |
| 7.291 | 0.013 | 41967 | 8.078 | -0.009 | 247261 | 4.96 | 18.98 | 117.1* | Endosulfan II |
| ---- | ---- | ---- | 7.928 | -0.021 | 125167 | 0.00 | 10.12 | --- | 4,4'-DDD |
| 8.165 | 0.024 | 29519 | 8.703 | 0.017 | 138740 | 3.68 | 12.13 | 107.0* | Endosulfan sulfate |
| ---- | ---- | ---- | 8.256 | -0.010 | 960240 | 0.00 | 80.47 | --- | 4,4'-DDT |
| 7.895 | 0.018 | 79396 | 8.929 | 0.021 | 47947 | 20.95 | 9.08 | 79.0* | Methoxychlor |
| ---- | ---- | ---- | 9.209 | -0.000 | 446745 | 0.00 | 36.15 | --- | Endrin ketone |
| 7.716 | 0.009 | 153488 | 8.395 | -0.024 | 152029 | 22.75 | 16.54 | 31.6 | Endrin aldehyde |
| ---- | ---- | ---- | 7.040 | 0.015 | 386629 | 0.00 | 19.81 | --- | trans-Chlordane |
| 6.382 | 0.006 | 168011 | 7.163 | -0.021 | 31914 | 12.21 | 1.67 | 151.8* | cis-Chlordane |
| ---- | ---- | ---- | 2.504 | 0.022 | 4361 | 0.00 | 0.17 | --- | Hexachlorobutadiene |
| ---- | ---- | ---- | ---- | ---- | ---- | 0.00 | 0.00 | --- | Hexachlorobenzene |
| 3.790 | -0.010 | 336659 | 4.182 | -0.015 | 510355 | 26.44 | 26.95 | 1.9 | Tetrachloro-m-xylene |
| 9.309 | -0.010 | 273696 | 10.405 | -0.024 | 385386 | 37.69 | 39.01 | 3.4 | Decachlorobiphenyl |

* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 672426 | 936224 | 39.2 |
| Hexabromobiphenyl | 609723 | 716629 | 17.5 |

| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 1006482 | 1345541 | 33.7 |
| Hexabromobiphenyl | 769764 | 893908 | 16.1 |

* Standard Areas taken from Initial Cal Level 5

Initial Calibration Date: 14-DEC-2022

<- Indicates standard response outside Limits (-50 to +100%)



Dual Column

LDW23-SC1158

ORGANIC ANALYSIS DATA SHEET
EPA 8081B

| | |
|--|--|
| Laboratory: <u>Analytical Resources, LLC</u> | SDG: <u>23A0180</u> |
| Client: <u>Anchor QEA, LLC</u> | |
| Project: <u>AOC5 MR Phase 1</u> | |
| Matrix: <u>Solid</u> | Laboratory ID: <u>23A0180-03 A</u> |
| | File ID: <u>23020946.D</u> |
| Sampled: <u>01/10/23 08:33</u> | Prepared: <u>01/26/23 12:35</u> |
| | Analyzed: <u>02/10/23 08:54</u> |
| % Solids: <u>54.31</u> | Preparation: <u>EPA 3546 (Microwave)</u> |
| | Initial/Final: <u>23.14 g Wet / 2.5 mL</u> |
| Batch: <u>BLA0556</u> | Sequence: <u>SLB0156</u> |
| | Calibration: <u>FL00041</u> |
| Instrument: <u>ECD6</u> | Column 1: <u>STX-CLP</u> |
| | Column 2: <u>STX-CLPII</u> |

| CAS NO. | COMPOUND | Col # | DILUTION | CONC. (ug/kg dry) | MDL | MRL | Q |
|----------|-------------------|-------|----------|-------------------|------|------|---|
| 118-74-1 | Hexachlorobenzene | 1 | 1 | 0.50 | 0.14 | 0.50 | U |

| SURROGATES | Col # | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|------------------------------|-------|-------------------|------------------|-------|-----------|---|
| <i>Decachlorobiphenyl</i> | 1 | 7.9571 | 7.39 | 92.9 | 30 - 160 | |
| <i>Tetrachlorometaxylene</i> | 1 | 7.9571 | 5.49 | 69.0 | 30 - 160 | |

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230209.b/23020946.D
Data file 2: /20230209.b/B20230209.b/23020946.D
Method: \20230209.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: AA/JR

ARI ID: 23A0180-03
Client ID:
Injection Date: 10-FEB-2023 08:54
Report Date: 02/11/2023 07:22
Units: ng/mL
Dilution Factor: 1.000

| RT | STX-CLP Col Shift Response | CLP2 Col Shift Response | RT | CLP2 Col Shift Response | STX-CLP on col | CLP2 on col | RPD | Compound/Flag | |
|-------|----------------------------|-------------------------|--------|-------------------------|----------------|-------------|-------|---------------|----------------------|
| 4.316 | 0.006 | 60071 | 4.819 | -0.014 | 14327 | 3.41 | 0.54 | 145.3* | alpha-BHC |
| 4.674 | -0.019 | 8504 | 5.317 | 0.007 | 19245 | 1.25 | 1.90 | 41.3* | beta-BHC |
| 4.871 | -0.005 | 111990 | ---- | ---- | ---- | 7.77 | 0.00 | --- | delta-BHC |
| 4.601 | -0.010 | 37422 | 5.208 | -0.021 | 9727 | 2.45 | 0.43 | 140.1* | gamma-BHC (Lindane) |
| 5.067 | -0.026 | 27185 | 5.746 | -0.008 | 55772 | 2.00 | 2.73 | 31.0 | Heptachlor |
| 5.419 | 0.005 | 101219 | 6.140 | -0.018 | 29049 | 6.64 | 1.25 | 136.8* | Aldrin |
| 6.061 | -0.027 | 52310 | ---- | ---- | ---- | 3.96 | 0.00 | --- | Heptachlor epoxide b |
| ---- | ---- | ---- | ---- | ---- | ---- | 0.00 | 0.00 | --- | Endosulfan I |
| ---- | ---- | ---- | ---- | ---- | ---- | 0.00 | 0.00 | --- | Dieldrin |
| 6.431 | -0.020 | 179015 | 7.320 | -0.022 | 90315 | 14.79 | 5.24 | 95.3* | 4,4'-DDE |
| 7.052 | 0.011 | 415779 | 7.887 | 0.011 | 340305 | 45.35 | 26.84 | 51.3* | Endrin |
| 7.291 | 0.013 | 27213 | 8.078 | -0.010 | 163935 | 3.30 | 12.62 | 117.1* | Endosulfan II |
| ---- | ---- | ---- | 7.928 | -0.021 | 85011 | 0.00 | 6.89 | --- | 4,4'-DDD |
| ---- | ---- | ---- | 8.702 | 0.016 | 96939 | 0.00 | 8.50 | --- | Endosulfan sulfates |
| ---- | ---- | ---- | 8.256 | -0.011 | 614579 | 0.00 | 51.64 | --- | 4,4'-DDT |
| 7.894 | 0.017 | 49759 | 8.928 | 0.019 | 31945 | 13.45 | 6.07 | 75.7* | Methoxychlor |
| ---- | ---- | ---- | 9.208 | -0.001 | 306070 | 0.00 | 24.83 | --- | Endrin ketone |
| 7.716 | 0.009 | 106812 | 8.394 | -0.025 | 111157 | 16.22 | 12.13 | 28.9 | Endrin aldehyde |
| ---- | ---- | ---- | 7.040 | 0.015 | 278892 | 0.00 | 14.50 | --- | trans-Chlordane |
| 6.381 | 0.005 | 118829 | 7.163 | -0.022 | 23111 | 8.82 | 1.23 | 151.1* | cis-Chlordane |
| 2.280 | -0.024 | 11686 | 2.504 | 0.022 | 4560 | 0.63 | 0.18 | 111.1* | Hexachlorobutadiene |
| ---- | ---- | ---- | ---- | ---- | ---- | 0.00 | 0.00 | --- | Hexachlorobenzene |
| 3.790 | -0.010 | 344068 | 4.181 | -0.015 | 512565 | 27.62 | 27.46 | 0.6 | Tetrachloro-m-xylene |
| 9.307 | -0.011 | 263397 | 10.403 | -0.026 | 385248 | 37.17 | 39.09 | 5.0 | Decachlorobiphenyl |

* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 672426 | 916107 | 36.2 |
| Hexabromobiphenyl | 609723 | 699386 | 14.7 |

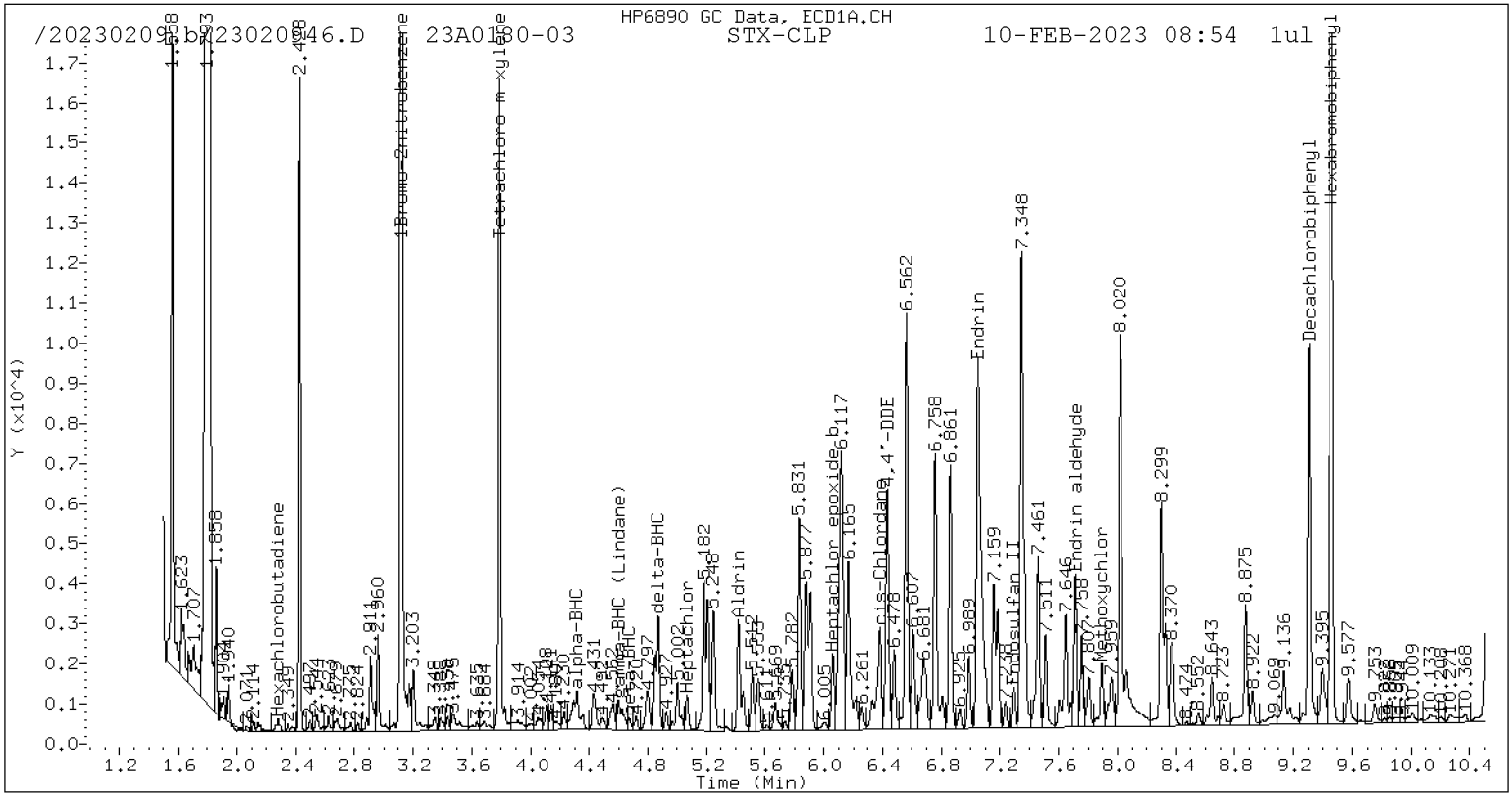
| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 1006482 | 1326157 | 31.8 |
| Hexabromobiphenyl | 769764 | 891624 | 15.8 |

* Standard Areas taken from Initial Cal Level 5

Initial Calibration Date: 14-DEC-2022

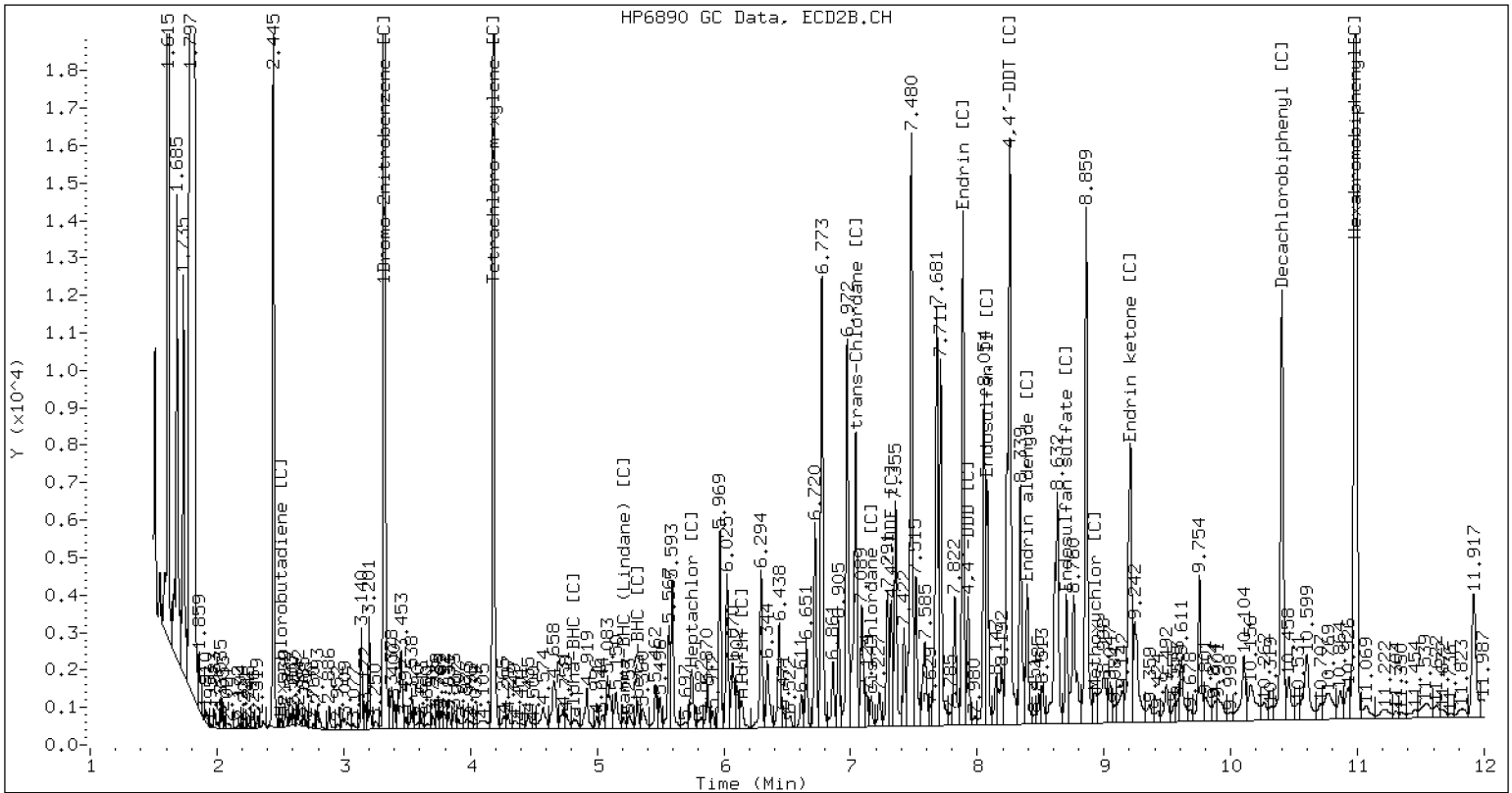
<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20230209.b/B20230209.b/23020946.D 23A0180-03 CLP2



CLP-2 Manual Integration: NO



Dual Column

LDW23-SC1151

**ORGANIC ANALYSIS DATA SHEET
EPA 8081B**

Laboratory: Analytical Resources, LLC SDG: 23A0180
 Client: Anchor QEA, LLC
 Project: AOC5 MR Phase 1
 Matrix: Solid Laboratory ID: 23A0180-04 A File ID: 23020947.D
 Sampled: 01/10/23 09:07 Prepared: 01/26/23 12:35 Analyzed: 02/10/23 09:12
 % Solids: 56.10 Preparation: EPA 3546 (Microwave) Initial/Final: 23.27 g Wet / 2.5 mL
 Batch: BLA0556 Sequence: SLB0156 Calibration: FL00041
 Instrument: ECD6 Column 1: STX-CLP Column 2: STX-CLPII

| CAS NO. | COMPOUND | Col # | DILUTION | CONC. (ug/kg dry) | MDL | MRL | Q |
|----------|-------------------|-------|----------|-------------------|------|------|---|
| 118-74-1 | Hexachlorobenzene | 1 | 1 | 0.48 | 0.14 | 0.48 | U |

| SURROGATES | Col # | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|------------------------------|-------|-------------------|------------------|-------|-----------|---|
| <i>Decachlorobiphenyl</i> | 1 | 7.6602 | 6.77 | 88.4 | 30 - 160 | |
| <i>Decachlorobiphenyl</i> | 2 | 7.6602 | 7.11 | 92.8 | 30 - 160 | |
| <i>Tetrachlorometaxylene</i> | 1 | 7.6602 | 5.01 | 65.5 | 30 - 160 | |
| <i>Tetrachlorometaxylene</i> | 2 | 7.6602 | 5.04 | 65.8 | 30 - 160 | |

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230209.b/23020947.D
Data file 2: /20230209.b/B20230209.b/23020947.D
Method: \20230209.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: AA/JR

ARI ID: 23A0180-04
Client ID:
Injection Date: 10-FEB-2023 09:12
Report Date: 02/11/2023 07:23
Units: ng/mL
Dilution Factor: 1.000

| RT | STX-CLP Col Shift Response | CLP2 Col Shift Response | RT | CLP2 Col Shift Response | STX-CLP on col | CLP2 on col | RPD | Compound/Flag | |
|-------|-------------------------------|----------------------------|--------|----------------------------|-------------------|----------------|-------|---------------|----------------------|
| 4.316 | 0.006 | 59090 | 4.820 | -0.013 | 10774 | 3.31 | 0.40 | 157.3* | alpha-BHC |
| 4.674 | -0.018 | 8861 | 5.316 | 0.007 | 23455 | 1.29 | 2.27 | 55.0* | beta-BHC |
| 4.871 | -0.004 | 147864 | ---- | ---- | ---- | 10.15 | 0.00 | --- | delta-BHC |
| 4.601 | -0.011 | 42804 | 5.207 | -0.021 | 10198 | 2.77 | 0.44 | 144.9* | gamma-BHC (Lindane) |
| 5.066 | -0.027 | 34702 | 5.747 | -0.008 | 80629 | 2.52 | 3.86 | 41.8* | Heptachlor |
| 5.419 | 0.005 | 122962 | ---- | ---- | ---- | 7.98 | 0.00 | --- | Aldrin |
| 6.061 | -0.028 | 53725 | ---- | ---- | ---- | 4.02 | 0.00 | --- | Heptachlor epoxide b |
| ---- | ---- | ---- | ---- | ---- | ---- | 0.00 | 0.00 | --- | Endosulfan I |
| ---- | ---- | ---- | ---- | ---- | ---- | 0.00 | 0.00 | --- | Dieldrin |
| 6.431 | -0.020 | 193467 | 7.355 | 0.013 | 186098 | 15.81 | 10.56 | 39.8 | 4,4'-DDE |
| 7.052 | 0.011 | 430705 | 7.886 | 0.011 | 348714 | 45.05 | 25.11 | 56.9* | Endrin |
| 7.290 | 0.012 | 28617 | ---- | ---- | ---- | 3.33 | 0.00 | --- | Endosulfan II |
| ---- | ---- | ---- | 7.927 | -0.021 | 93963 | 0.00 | 6.95 | --- | 4,4'-DDD |
| ---- | ---- | ---- | 8.702 | 0.015 | 102729 | 0.00 | 8.22 | --- | Endosulfan sulfate |
| ---- | ---- | ---- | 8.254 | -0.013 | 749976 | 0.00 | 57.51 | --- | 4,4'-DDT |
| 7.894 | 0.017 | 53796 | ---- | ---- | ---- | 13.95 | 0.00 | --- | Methoxychlor |
| ---- | ---- | ---- | 9.207 | -0.003 | 425216 | 0.00 | 31.49 | --- | Endrin ketone |
| 7.716 | 0.009 | 98037 | 8.393 | -0.025 | 110915 | 14.28 | 11.04 | 25.6 | Endrin aldehyde |
| ---- | ---- | ---- | 7.039 | 0.014 | 290104 | 0.00 | 14.74 | --- | trans-Chlordane |
| 6.381 | 0.005 | 125982 | 7.163 | -0.022 | 24396 | 9.25 | 1.27 | 151.8* | cis-Chlordane |
| 2.280 | -0.024 | 11532 | 2.504 | 0.022 | 3573 | 0.62 | 0.14 | 126.7* | Hexachlorobutadiene |
| ---- | ---- | ---- | 4.663 | -0.029 | 64365 | 0.00 | 2.60 | --- | Hexachlorobenzene |
| 3.790 | -0.010 | 329805 | 4.181 | -0.015 | 502252 | 26.19 | 26.30 | 0.4 | Tetrachloro-m-xylene |
| 9.307 | -0.011 | 261210 | 10.404 | -0.026 | 400945 | 35.35 | 37.14 | 4.9 | Decachlorobiphenyl |

* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 672426 | 926131 | 37.7 |
| Hexabromobiphenyl | 609723 | 729223 | 19.6 |

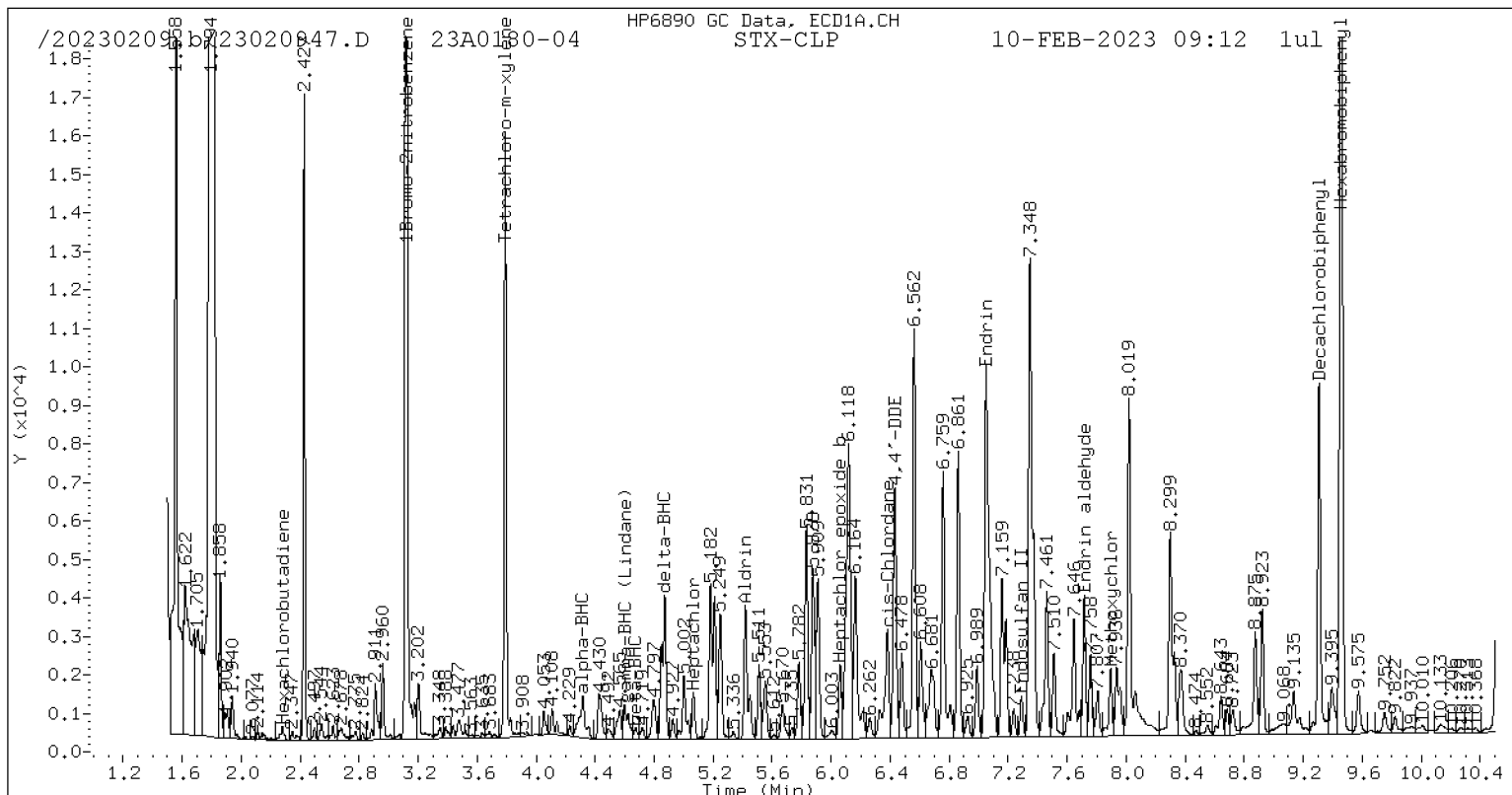
| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 1006482 | 1356505 | 34.8 |
| Hexabromobiphenyl | 769764 | 976899 | 26.9 |

* Standard Areas taken from Initial Cal Level 5

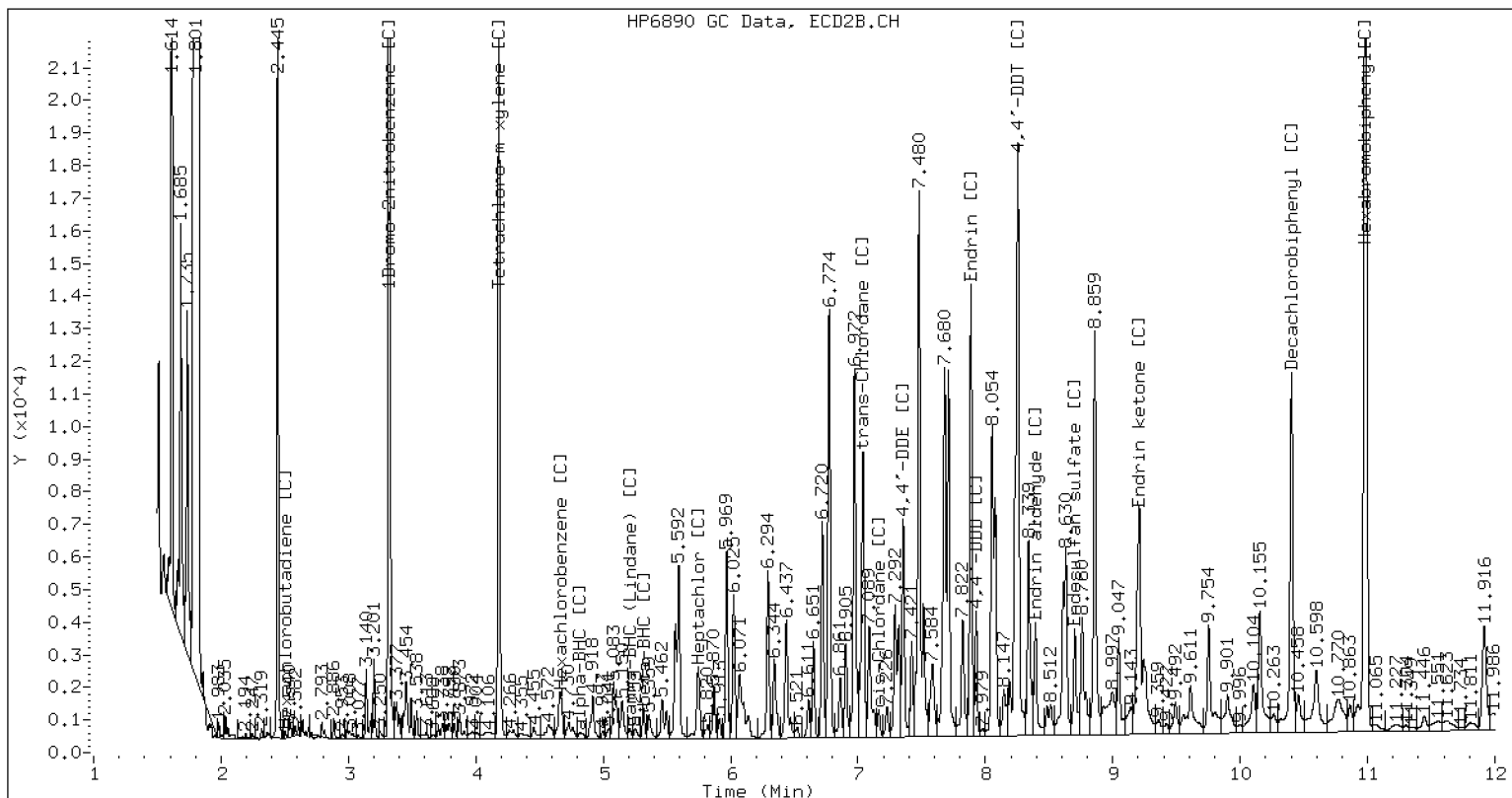
Initial Calibration Date: 14-DEC-2022

<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



/20230209.b/B20230209.b/23020947.D 23A0180-04 CLP2





Batch: BLA0556

Prepared using: EPA 3546 (Microwave)
8081B Pest (PSDDA) in Solid (Version: HCB Only)

Matrix: Solid

Date Prepared: 1/26/23

Balance ID: B139298002

Set Up By: CRO 1/24/23

WO Comments

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

The following standards may be missing from this batch!

| Designator | Description |
|------------|-------------|
| 62 | Toxaphene |
| 44 | WND |
| QLS 10 | QLS Spike |

Analysis: 8081B Pest (PSDDA)

| Lab Number & Container | % Solids | Initial (g) | | (REQ) GPC (1:1) | <input checked="" type="checkbox"/> Yes / No Acid Clean 5mL | (REQ) Sulfur C/U 4.5mL+0.5 mL Ethyl Acetate | (REQ) Silica Gel C/U (2:5) | Final Effective Vol (mL) | Vol (mL) to Lab | Extraction Comments |
|------------------------|----------|------------------------|--------------|-----------------|---|--|----------------------------|--------------------------|-----------------|---------------------|
| | | Target Dry: 12.5 (Wet) | Actual | | | | | | | |
| 23A0179-01 A | 59.0 | (21.19) | <u>21.82</u> | (1:1) | 5mL | 5mL | (2:5) 2mL | 2.5 | 1.0 | |
| 23A0179-02 A | 66.2 | (18.88) | <u>19.05</u> | (1:1) | 5mL | 5mL | (2:5) 2mL | 2.5 | 1.0 | |
| 23A0179-03 A | 58.6 | (21.34) | <u>21.90</u> | (1:1) | 5mL | 5mL | (2:5) 2mL | 2.5 | 1.0 | |
| 23A0179-04 A | 53.7 | (23.26) | <u>23.90</u> | (1:1) | 5mL | 5mL | (2:5) 2mL | 2.5 | 1.0 | |
| 23A0179-05 A | 67.4 | (18.55) | <u>18.79</u> | (1:1) | 5mL | 5mL | (2:5) 2mL | 2.5 | 1.0 | |
| 23A0179-06 A | 54.0 | (23.16) | <u>23.98</u> | (1:1) | 5mL | 5mL | (2:5) 2mL | 2.5 | 1.0 | |
| 23A0179-07 A | 74.6 | (16.76) | <u>16.76</u> | (1:1) | 5mL | 5mL | (2:5) 2mL | 2.5 | 1.0 | |
| 23A0179-08 A | 61.4 | (20.37) | <u>21.06</u> | (1:1) | 5mL | 5mL | (2:5) 2mL | 2.5 | 1.0 | |
| 23A0179-09 A | 53.0 | (23.58) | <u>23.60</u> | (1:1) | 5mL | 5mL | (2:5) 2mL | 2.5 | 1.0 | |
| 23A0179-10 A | 49.3 | (25.37) | <u>26.18</u> | (1:1) | 5mL | 5mL | (2:5) 2mL | 2.5 | 1.0 | |
| 23A0179-11 A | 49.6 | (25.18) | <u>25.22</u> | (1:1) | 5mL | 5mL | (2:5) 2mL | 2.5 | 1.0 | |
| 23A0179-12 A | 49.4 | (25.33) | <u>25.35</u> | (1:1) | 5mL | 5mL | (2:5) 2mL | 2.5 | 1.0 | |
| 23A0180-01 A | 51.4 | (24.34) | <u>24.62</u> | (1:1) | 5mL | 5mL | (2:5) 2mL | 2.5 | 1.0 | |
| 23A0180-02 A | 53.0 | (23.58) | <u>23.79</u> | (1:1) | 5mL | 5mL | (2:5) 2mL | 2.5 | 1.0 | |
| 23A0180-03 A | 54.3 | (23.02) | <u>23.14</u> | (1:1) | 5mL | 5mL | (2:5) 2mL | 2.5 | 1.0 | |
| 23A0180-04 A | 56.1 | (22.28) | <u>23.27</u> | (1:1) | 5mL | 5mL | (2:5) 2mL | 2.5 | 1.0 | |

Batch QC

| Lab Number | % Solids | Initial (g) | | (REQ) GPC (1:1) | <input checked="" type="checkbox"/> Yes / No Acid Clean 5mL | (REQ) Sulfur C/U 4.5mL+0.5 mL Ethyl Acetate | (REQ) Silica Gel C/U (2:5) | Final Effective Vol (mL) | Vol (mL) to Lab | Extraction Comments |
|--------------|----------|------------------------|--------------|-----------------|---|--|----------------------------|--------------------------|-----------------|---------------------|
| | | Target Dry: 12.5 (Wet) | Actual | | | | | | | |
| BLA0556-BLK1 | 100.0 | (12.50) | <u>12.50</u> | (1:1) | 5mL | 5mL | (2:5) 2mL | 2.5 | 1.0 | |
| BLA0556-BS1 | 100.0 | (12.50) | <u>12.50</u> | (1:1) | 5mL | 5mL | (2:5) 2mL | 2.5 | 1.0 | |
| BLA0556-BSD1 | 100.0 | (12.50) | <u>12.50</u> | (1:1) | 5mL | 5mL | (2:5) 2mL | 2.5 | 1.0 | |
| BLA0556-MS1 | 74.6 | (16.76) | <u>16.76</u> | (1:1) | 5mL | 5mL | (2:5) 2mL | 2.5 | 1.0 | Use 23A0179-07 |
| BLA0556-MSD1 | 74.6 | (16.76) | <u>16.76</u> | (1:1) | 5mL | 5mL | (2:5) 2mL | 2.5 | 1.0 | Use 23A0179-07 |



Batch: BLA0556

Prepared using: EPA 3546 (Microwave)
8081B Pest (PSDDA) in Solid (Version: HCB Only)

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

JR

1/26/23

LS

2/6/23

4/20/23 CT

12:35

Client ID verified By

Date

Preparation Reviewed By

Date

Extraction Date and Time



Batch: BLA0556

Prepared using: EPA 3546 (Microwave)
8081B Pest (PSDDA) in Solid (Version: HCB Only)

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

| Prep Steps | Reagents Used | Surrogates & Spike Standards Used | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|--------|-----------------------|---------|---------|---------|-----------|-----------|------|----|----|--------|-------------------|--|--|--|-----------------|-----------|-------|----|----|--------------|-------------------|--|--|--|
| Microwave ① 2 3 OR 1/26 Analyst/Date | Station/Reagent Standard ID Microwave Analyst: OR Date: 1/26/23 | <table border="1"> <thead> <tr> <th>Type</th> <th>Vial ID / Standard ID</th> <th>Vol uL</th> <th>Analyst</th> <th>Witness</th> </tr> </thead> <tbody> <tr> <td>Surrogate</td> <td>N L000773</td> <td>50µL</td> <td>OR</td> <td>GT</td> </tr> <tr> <td>2µg/mL</td> <td>Exp Date: 7/21/23</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Spike (Freezer)</td> <td>3 K011471</td> <td>100µL</td> <td>OR</td> <td>GT</td> </tr> <tr> <td>0.5/1.5µg/mL</td> <td>Exp Date: 6/10/23</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | Type | Vial ID / Standard ID | Vol uL | Analyst | Witness | Surrogate | N L000773 | 50µL | OR | GT | 2µg/mL | Exp Date: 7/21/23 | | | | Spike (Freezer) | 3 K011471 | 100µL | OR | GT | 0.5/1.5µg/mL | Exp Date: 6/10/23 | | | |
| | Type | Vial ID / Standard ID | Vol uL | Analyst | Witness | | | | | | | | | | | | | | | | | | | | | | |
| Surrogate | N L000773 | 50µL | OR | GT | | | | | | | | | | | | | | | | | | | | | | | |
| 2µg/mL | Exp Date: 7/21/23 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spike (Freezer) | 3 K011471 | 100µL | OR | GT | | | | | | | | | | | | | | | | | | | | | | | |
| 0.5/1.5µg/mL | Exp Date: 6/10/23 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pre GPC KD 100°C (No Exchange) ① ② ③ ④ ⑤ ⑥ SH 1/31/23 Analyst/Date | Hexane K0008310 80:20 Hexane/Acetone L0000257 1:1 Hexane/Acetone L0000646 Neutral Glass Wool L0000350 Anhydrous Sodium Sulfate L0000453 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Pre GPC KD Analyst: SH Date: 1/31/23 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TurboVap Pre GPC 1 2 3 ④ 5 TWC 2/1/23 Analyst/Date | Hexane K 411373 Anhydrous Sodium Sulfate SH 1/31/23 N/A Neutral Glass Wool SH 1/31/23 N/A | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | GPC Filter Prep Analyst: TWC Date: 2/1/23 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Post GPC KD 80 - 85°C Hexane Exchange (2 X 20 mL) 100°C ① ② ③ ④ ⑤ ⑥ LS 2/5/23 Analyst/Date | Methylene Chloride L0000808 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | GPC Analyst: TWC Date: 2/1/23 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TurboVap Pre-Cleanups 1 2 3 ④ 5 LS 2/5/23 Analyst/Date | Methylene Chloride L000808 Hexane K011573 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Vialing Analyst: LS Date: 2/6/23 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TurboVap Post-Cleanups 1 2 ③ 4 5 LS 2/6/23 Analyst/Date | Hexane K011373 Sulfuric Acid L001033 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Vialing Sodium Sulfite K010363 Silica Gel (SPE) Darts K011573 | | | | | | | | | | | | | | | | | | | | | | | | | | |

MANUALLY ENTER EXPIRATION DATES!

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

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



Analytical Resources, LLC
Analytical Chemists and Consultants

ORGANICS PREPARATION BENCH SHEET

Batch: BLA0556

Prepared using: EPA 3546 (Microwave)
8081B Pest (PSDDA) in Solid (Version: HCB Only)

WO Comments

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

Analyst/Date



Batch: BLA0556

Prepared using: EPA 3546 (Microwave)
8081B Pest (PSDDA) in Solid (Version: HCB Only)

WO Comments

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

Prep Instructions

SPECIAL INSTRUCTIONS:

1. Weigh into beakers-lightly dry with Sodium Sulfate.
2. Transfer to microwave vessels.
3. Add 1:1 Hex/ACE to the vessels (until solvent is 3" above soil layer after homogenization).
4. Add surr/spike.
5. Microwave on appropriate power setting determined by # of samples.
6. After microwave-re-homogenize while hot then let cool 15 min in cold water. Re-homogenize while cool.
7. Decant 1:1 Hex/ACE into Erlenmeyer flask using a funnel containing neutral glasswool.
8. Rinse with Hexane.
9. Microwave a 2nd time using 8:2 Hex/Ace (until solvent is 3" above soil layer after homogenization).
10. Let cool and decant the solvent then empty the soil into the funnel and rinse with Hexane.
11. KD to 5mL at 100°C. (NO HEXANE EXCHANGE).
12. TurboVap
13. GPC
14. After GPC: KD at 80 - 85°C
15. Exchange to Hexane at 100°C 2 x 20 mL).
16. TurboVap.
17. Cleanups, If Acid cleaning do not add Ethyl Acetate for Sulfur Clean. Do Not Acid Clean if Acid liable compounds are requested.
18. Vial in Hexane.

A. Need Total Solids Y/ N

B. Archive/Freeze Y/ N



Extraction Parameter: PEST Extraction Batch BLA0556

Total Solids Batch: BLA0474 Work Order(s): 23A0179

| Screens: Soil/Sediment/Solid/Other: | Analyst/Date |
|--|--------------------|
| <input checked="" type="checkbox"/> No Anomalies (standard soil/wet sediment/sand/gravel)= <u>01-12-</u> | <u>dy 01/21/23</u> |
| <input checked="" type="checkbox"/> Standing Water Decanted (Not shared)= <u>01-12-</u> | <u>dy 01/21/23</u> |
| <input type="checkbox"/> Standing Water Homogenized (Shared samples)= | <u>dy</u> |
| <input type="checkbox"/> Clay/Clumps (Difficult to homogenize)= | |
| <input type="checkbox"/> Rocks (%+size)? | |
| <input type="checkbox"/> Organics (Leaves/sticks/grass)= | |
| <input type="checkbox"/> Oily, obvious fuel/sulfur odors= | |
| <input type="checkbox"/> Received in 32oz jar(s)=Homogenized in Pyrex dish= | |
| <input type="checkbox"/> Previously Frozen = | |
| <input type="checkbox"/> Other (Details)= | |
| Aqueous: | |
| <input checked="" type="checkbox"/> No Anomalies | |
| <input type="checkbox"/> Turbid/Color= | |
| <input type="checkbox"/> Particulates(%)=(Note: >5%=Notify Supervisor/Lead) | |
| <input type="checkbox"/> Emulsions (%)= | |
| <input type="checkbox"/> Oily, obvious fuel/sulfur odors= | |
| <input type="checkbox"/> Other (Details)= | |
| <input type="checkbox"/> Received in 1.0L Bottle(s)=No Bottle Rinse= | |
| <input type="checkbox"/> Other Notes/Comments= (Note problems, concerns, corrective actions). | |
| <input checked="" type="checkbox"/> Share Samples Y / N | <u>dy 01/21/23</u> |
| <input checked="" type="checkbox"/> Multiple Jars Y / N | <u>dy 01/21/23</u> |
| <input type="checkbox"/> Sample Pre-Screens indicate analyte activity= | |
| <input type="checkbox"/> Sample weights/volumes reduced based on Pre-Screen= | |



Extraction Parameter: PEST Extraction Batch BLA0556

Total Solids Batch: BLA0498 Work Order(s): 23A0180 01-15

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



CLEANUP BATCH SUMMARY

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Cleanup Batch: CLB0039

Cleanup Type: Silica Gel

Cleanup Method: EPA 3630C Silica Gel Cleanup - uL

Analysis: EPA 8081B

| SAMPLE NAME | LAB SAMPLE ID | LAB FILE ID | DATE PREPARED | OBSERVATIONS |
|-----------------|---------------|-------------|---------------|--------------|
| LCS | BLA0556-BS1 | 23020926.D | 02/06/2023 | |
| Blank | BLA0556-BLK1 | 23020925.D | 02/06/2023 | |
| LDW23-SC1164-FD | 23A0180-02 | 23020945.D | 02/06/2023 | |
| LDW23-SC1164 | 23A0180-01 | 23020944.D | 02/06/2023 | |
| LDW23-SC1158 | 23A0180-03 | 23020946.D | 02/06/2023 | |
| LDW23-SC1151 | 23A0180-04 | 23020947.D | 02/06/2023 | |
| LCS Dup | BLA0556-BSD1 | 23020927.D | 02/06/2023 | |



CLEANUP BENCH SHEET

CLB0039

Matrix: Solid

Cleanup using: Organics - EPA 3630C Silica Gel Cleanup - uL

Printed: 2/6/2023 12:55:53PM

| Lab Number | Sample Container | Sample Name | Extract Container | Initial (uL) | Final (uL) | Analysis | Clean Up Date | Cleaned By | Cleanup Comments |
|--------------|------------------|------------------|-------------------|--------------|------------|--------------------|---------------|------------|------------------|
| 23A0179-01 | A | LDW23-SS1277 | A 01 | 2.5 | 2.5 | 8081B Pest (PSDDA) | 2/6/2023 | LMJ | |
| 23A0179-02 | A | LDW23-SS1271 | A 01 | 2.5 | 2.5 | 8081B Pest (PSDDA) | 2/6/2023 | LMJ | |
| 23A0179-03 | A | LDW23-SS1266 | A 01 | 2.5 | 2.5 | 8081B Pest (PSDDA) | 2/6/2023 | LMJ | |
| 23A0179-04 | A | LDW23-SS1248 | A 01 | 2.5 | 2.5 | 8081B Pest (PSDDA) | 2/6/2023 | LMJ | |
| 23A0179-05 | A | LDW23-SS1239 | A 01 | 2.5 | 2.5 | 8081B Pest (PSDDA) | 2/6/2023 | LMJ | |
| 23A0179-06 | A | LDW23-SS1213 | A 01 | 2.5 | 2.5 | 8081B Pest (PSDDA) | 2/6/2023 | LMJ | |
| 23A0179-07 | A | LDW23-SS1200 | A 01 | 2.5 | 2.5 | 8081B Pest (PSDDA) | 2/6/2023 | LMJ | |
| 23A0179-08 | A | LDW23-SS1178 | A 01 | 2.5 | 2.5 | 8081B Pest (PSDDA) | 2/6/2023 | LMJ | |
| 23A0179-09 | A | LDW23-SS1171 | A 01 | 2.5 | 2.5 | 8081B Pest (PSDDA) | 2/6/2023 | LMJ | |
| 23A0179-10 | A | LDW23-SS1112 | A 01 | 2.5 | 2.5 | 8081B Pest (PSDDA) | 2/6/2023 | LMJ | |
| 23A0179-11 | A | LDW23-SS1039 | A 01 | 2.5 | 2.5 | 8081B Pest (PSDDA) | 2/6/2023 | LMJ | |
| 23A0179-12 | A | LDW23-SS1007 | A 01 | 2.5 | 2.5 | 8081B Pest (PSDDA) | 2/6/2023 | LMJ | |
| 23A0180-01 | A | LDW23-SC1164 | A 01 | 2.5 | 2.5 | 8081B Pest (PSDDA) | 2/6/2023 | LMJ | |
| 23A0180-02 | A | LDW23-SC1164-FD | A 01 | 2.5 | 2.5 | 8081B Pest (PSDDA) | 2/6/2023 | LMJ | |
| 23A0180-03 | A | LDW23-SC1158 | A 01 | 2.5 | 2.5 | 8081B Pest (PSDDA) | 2/6/2023 | LMJ | |
| 23A0180-04 | A | LDW23-SC1151 | A 01 | 2.5 | 2.5 | 8081B Pest (PSDDA) | 2/6/2023 | LMJ | |
| BLA0556-BLK1 | - | Blank | - | 2.5 | 2.5 | - | 2/6/2023 | LMJ | |
| BLA0556-BS1 | - | LCS | - | 2.5 | 2.5 | - | 2/6/2023 | LMJ | |
| BLA0556-BSD1 | - | LCS Dup | - | 2.5 | 2.5 | - | 2/6/2023 | LMJ | |
| BLA0556-MS1 | - | Matrix Spike | - | 2.5 | 2.5 | - | 2/6/2023 | LMJ | |
| BLA0556-MSD1 | - | Matrix Spike Dup | - | 2.5 | 2.5 | - | 2/6/2023 | LMJ | |



CLEANUP BATCH SUMMARY

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Cleanup Batch: CLB0040

Cleanup Type: Sulfur

Cleanup Method: EPA 3660B Sulfur Cleanup - uL

Analysis: EPA 8081B

| SAMPLE NAME | LAB SAMPLE ID | LAB FILE ID | DATE PREPARED | OBSERVATIONS |
|-----------------|---------------|-------------|---------------|--------------|
| LDW23-SC1158 | 23A0180-03 | 23020946.D | 02/06/2023 | |
| Blank | BLA0556-BLK1 | 23020925.D | 02/06/2023 | |
| LCS Dup | BLA0556-BSD1 | 23020927.D | 02/06/2023 | |
| LDW23-SC1151 | 23A0180-04 | 23020947.D | 02/06/2023 | |
| LCS | BLA0556-BS1 | 23020926.D | 02/06/2023 | |
| LDW23-SC1164 | 23A0180-01 | 23020944.D | 02/06/2023 | |
| LDW23-SC1164-FD | 23A0180-02 | 23020945.D | 02/06/2023 | |



CLEANUP BENCH SHEET

CLB0040

Matrix: Solid

Cleanup using: Organics - EPA 3660B Sulfur Cleanup - uL

Printed: 2/6/2023 12:56:33PM

| Lab Number | Sample Container | Sample Name | Extract Container | Initial (uL) | Final (uL) | Analysis | Clean Up Date | Cleaned By | Cleanup Comments |
|--------------|------------------|------------------|-------------------|--------------|------------|--------------------|---------------|------------|------------------|
| 23A0179-01 | A | LDW23-SS1277 | A 01 | 2.5 | 2.5 | 8081B Pest (PSDDA) | 2/6/2023 | LMJ | |
| 23A0179-02 | A | LDW23-SS1271 | A 01 | 2.5 | 2.5 | 8081B Pest (PSDDA) | 2/6/2023 | LMJ | |
| 23A0179-03 | A | LDW23-SS1266 | A 01 | 2.5 | 2.5 | 8081B Pest (PSDDA) | 2/6/2023 | LMJ | |
| 23A0179-04 | A | LDW23-SS1248 | A 01 | 2.5 | 2.5 | 8081B Pest (PSDDA) | 2/6/2023 | LMJ | |
| 23A0179-05 | A | LDW23-SS1239 | A 01 | 2.5 | 2.5 | 8081B Pest (PSDDA) | 2/6/2023 | LMJ | |
| 23A0179-06 | A | LDW23-SS1213 | A 01 | 2.5 | 2.5 | 8081B Pest (PSDDA) | 2/6/2023 | LMJ | |
| 23A0179-07 | A | LDW23-SS1200 | A 01 | 2.5 | 2.5 | 8081B Pest (PSDDA) | 2/6/2023 | LMJ | |
| 23A0179-08 | A | LDW23-SS1178 | A 01 | 2.5 | 2.5 | 8081B Pest (PSDDA) | 2/6/2023 | LMJ | |
| 23A0179-09 | A | LDW23-SS1171 | A 01 | 2.5 | 2.5 | 8081B Pest (PSDDA) | 2/6/2023 | LMJ | |
| 23A0179-10 | A | LDW23-SS1112 | A 01 | 2.5 | 2.5 | 8081B Pest (PSDDA) | 2/6/2023 | LMJ | |
| 23A0179-11 | A | LDW23-SS1039 | A 01 | 2.5 | 2.5 | 8081B Pest (PSDDA) | 2/6/2023 | LMJ | |
| 23A0179-12 | A | LDW23-SS1007 | A 01 | 2.5 | 2.5 | 8081B Pest (PSDDA) | 2/6/2023 | LMJ | |
| 23A0180-01 | A | LDW23-SC1164 | A 01 | 2.5 | 2.5 | 8081B Pest (PSDDA) | 2/6/2023 | LMJ | |
| 23A0180-02 | A | LDW23-SC1164-FD | A 01 | 2.5 | 2.5 | 8081B Pest (PSDDA) | 2/6/2023 | LMJ | |
| 23A0180-03 | A | LDW23-SC1158 | A 01 | 2.5 | 2.5 | 8081B Pest (PSDDA) | 2/6/2023 | LMJ | |
| 23A0180-04 | A | LDW23-SC1151 | A 01 | 2.5 | 2.5 | 8081B Pest (PSDDA) | 2/6/2023 | LMJ | |
| BLA0556-BLK1 | - | Blank | - | 2.5 | 2.5 | - | 2/6/2023 | LMJ | |
| BLA0556-BS1 | - | LCS | - | 2.5 | 2.5 | - | 2/6/2023 | LMJ | |
| BLA0556-BSD1 | - | LCS Dup | - | 2.5 | 2.5 | - | 2/6/2023 | LMJ | |
| BLA0556-MS1 | - | Matrix Spike | - | 2.5 | 2.5 | - | 2/6/2023 | LMJ | |
| BLA0556-MSD1 | - | Matrix Spike Dup | - | 2.5 | 2.5 | - | 2/6/2023 | LMJ | |



CLEANUP BATCH SUMMARY

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Cleanup Batch: CLB0041

Cleanup Type: Sulfuric Acid

Cleanup Method: EPA 3665 Sulfuric Acid Cleanup - uL

Analysis: EPA 8081B

| SAMPLE NAME | LAB SAMPLE ID | LAB FILE ID | DATE PREPARED | OBSERVATIONS |
|-----------------|---------------|-------------|---------------|--------------|
| Blank | BLA0556-BLK1 | 23020925.D | 02/06/2023 | |
| LCS | BLA0556-BS1 | 23020926.D | 02/06/2023 | |
| LCS Dup | BLA0556-BSD1 | 23020927.D | 02/06/2023 | |
| LDW23-SC1164-FD | 23A0180-02 | 23020945.D | 02/06/2023 | |
| LDW23-SC1164 | 23A0180-01 | 23020944.D | 02/06/2023 | |
| LDW23-SC1158 | 23A0180-03 | 23020946.D | 02/06/2023 | |
| LDW23-SC1151 | 23A0180-04 | 23020947.D | 02/06/2023 | |



CLEANUP BENCH SHEET

CLB0041

Matrix: Solid

Cleanup using: Organics - EPA 3665 Sulfuric Acid Cleanup - uL

Printed: 2/6/2023 12:57:12PM

| Lab Number | Sample Container | Sample Name | Extract Container | Initial (uL) | Final (uL) | Analysis | Clean Up Date | Cleaned By | Cleanup Comments |
|--------------|------------------|------------------|-------------------|--------------|------------|--------------------|---------------|------------|------------------|
| 23A0179-01 | A | LDW23-SS1277 | A 01 | 2.5 | 2.5 | 8081B Pest (PSDDA) | 2/6/2023 | LMJ | |
| 23A0179-02 | A | LDW23-SS1271 | A 01 | 2.5 | 2.5 | 8081B Pest (PSDDA) | 2/6/2023 | LMJ | |
| 23A0179-03 | A | LDW23-SS1266 | A 01 | 2.5 | 2.5 | 8081B Pest (PSDDA) | 2/6/2023 | LMJ | |
| 23A0179-04 | A | LDW23-SS1248 | A 01 | 2.5 | 2.5 | 8081B Pest (PSDDA) | 2/6/2023 | LMJ | |
| 23A0179-05 | A | LDW23-SS1239 | A 01 | 2.5 | 2.5 | 8081B Pest (PSDDA) | 2/6/2023 | LMJ | |
| 23A0179-06 | A | LDW23-SS1213 | A 01 | 2.5 | 2.5 | 8081B Pest (PSDDA) | 2/6/2023 | LMJ | |
| 23A0179-07 | A | LDW23-SS1200 | A 01 | 2.5 | 2.5 | 8081B Pest (PSDDA) | 2/6/2023 | LMJ | |
| 23A0179-08 | A | LDW23-SS1178 | A 01 | 2.5 | 2.5 | 8081B Pest (PSDDA) | 2/6/2023 | LMJ | |
| 23A0179-09 | A | LDW23-SS1171 | A 01 | 2.5 | 2.5 | 8081B Pest (PSDDA) | 2/6/2023 | LMJ | |
| 23A0179-10 | A | LDW23-SS1112 | A 01 | 2.5 | 2.5 | 8081B Pest (PSDDA) | 2/6/2023 | LMJ | |
| 23A0179-11 | A | LDW23-SS1039 | A 01 | 2.5 | 2.5 | 8081B Pest (PSDDA) | 2/6/2023 | LMJ | |
| 23A0179-12 | A | LDW23-SS1007 | A 01 | 2.5 | 2.5 | 8081B Pest (PSDDA) | 2/6/2023 | LMJ | |
| 23A0180-01 | A | LDW23-SC1164 | A 01 | 2.5 | 2.5 | 8081B Pest (PSDDA) | 2/6/2023 | LMJ | |
| 23A0180-02 | A | LDW23-SC1164-FD | A 01 | 2.5 | 2.5 | 8081B Pest (PSDDA) | 2/6/2023 | LMJ | |
| 23A0180-03 | A | LDW23-SC1158 | A 01 | 2.5 | 2.5 | 8081B Pest (PSDDA) | 2/6/2023 | LMJ | |
| 23A0180-04 | A | LDW23-SC1151 | A 01 | 2.5 | 2.5 | 8081B Pest (PSDDA) | 2/6/2023 | LMJ | |
| BLA0556-BLK1 | - | Blank | - | 2.5 | 2.5 | - | 2/6/2023 | LMJ | |
| BLA0556-BS1 | - | LCS | - | 2.5 | 2.5 | - | 2/6/2023 | LMJ | |
| BLA0556-BSD1 | - | LCS Dup | - | 2.5 | 2.5 | - | 2/6/2023 | LMJ | |
| BLA0556-MS1 | - | Matrix Spike | - | 2.5 | 2.5 | - | 2/6/2023 | LMJ | |
| BLA0556-MSD1 | - | Matrix Spike Dup | - | 2.5 | 2.5 | - | 2/6/2023 | LMJ | |



Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BATCH SUMMARY

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Cleanup Batch: CLB0042

Cleanup Type: GPC

Cleanup Method: EPA 3640A GPC Cleanup 1:1

Analysis: EPA 8081B

| SAMPLE NAME | LAB SAMPLE ID | LAB FILE ID | DATE PREPARED | OBSERVATIONS |
|-----------------|---------------|-------------|---------------|--------------|
| Blank | BLA0556-BLK1 | 23020925.D | 02/06/2023 | |
| LCS | BLA0556-BS1 | 23020926.D | 02/06/2023 | |
| LDW23-SC1151 | 23A0180-04 | 23020947.D | 02/06/2023 | |
| LDW23-SC1158 | 23A0180-03 | 23020946.D | 02/06/2023 | |
| LDW23-SC1164-FD | 23A0180-02 | 23020945.D | 02/06/2023 | |
| LCS Dup | BLA0556-BSD1 | 23020927.D | 02/06/2023 | |
| LDW23-SC1164 | 23A0180-01 | 23020944.D | 02/06/2023 | |



CLEANUP BENCH SHEET

CLB0042

Matrix: Solid Cleanup using: Organics - EPA 3640A GPC Cleanup 1:1 Check Standard: CLA0086-GPC1 Printed: 2/6/2023 12:58:16PM

| Lab Number | Sample Container | Sample Name | Extract Container | Initial (uL) | Final (uL) | Analysis | Clean Up Date | Cleaned By | Cleanup Comments |
|--------------|------------------|------------------|-------------------|--------------|------------|--------------------|---------------|------------|------------------|
| 23A0179-01 | A | LDW23-SS1277 | A 01 | 2.5 | 2.5 | 8081B Pest (PSDDA) | 2/6/2023 | LMJ | |
| 23A0179-02 | A | LDW23-SS1271 | A 01 | 2.5 | 2.5 | 8081B Pest (PSDDA) | 2/6/2023 | LMJ | |
| 23A0179-03 | A | LDW23-SS1266 | A 01 | 2.5 | 2.5 | 8081B Pest (PSDDA) | 2/6/2023 | LMJ | |
| 23A0179-04 | A | LDW23-SS1248 | A 01 | 2.5 | 2.5 | 8081B Pest (PSDDA) | 2/6/2023 | LMJ | |
| 23A0179-05 | A | LDW23-SS1239 | A 01 | 2.5 | 2.5 | 8081B Pest (PSDDA) | 2/6/2023 | LMJ | |
| 23A0179-06 | A | LDW23-SS1213 | A 01 | 2.5 | 2.5 | 8081B Pest (PSDDA) | 2/6/2023 | LMJ | |
| 23A0179-07 | A | LDW23-SS1200 | A 01 | 2.5 | 2.5 | 8081B Pest (PSDDA) | 2/6/2023 | LMJ | |
| 23A0179-08 | A | LDW23-SS1178 | A 01 | 2.5 | 2.5 | 8081B Pest (PSDDA) | 2/6/2023 | LMJ | |
| 23A0179-09 | A | LDW23-SS1171 | A 01 | 2.5 | 2.5 | 8081B Pest (PSDDA) | 2/6/2023 | LMJ | |
| 23A0179-10 | A | LDW23-SS1112 | A 01 | 2.5 | 2.5 | 8081B Pest (PSDDA) | 2/6/2023 | LMJ | |
| 23A0179-11 | A | LDW23-SS1039 | A 01 | 2.5 | 2.5 | 8081B Pest (PSDDA) | 2/6/2023 | LMJ | |
| 23A0179-12 | A | LDW23-SS1007 | A 01 | 2.5 | 2.5 | 8081B Pest (PSDDA) | 2/6/2023 | LMJ | |
| 23A0180-01 | A | LDW23-SC1164 | A 01 | 2.5 | 2.5 | 8081B Pest (PSDDA) | 2/6/2023 | LMJ | |
| 23A0180-02 | A | LDW23-SC1164-FD | A 01 | 2.5 | 2.5 | 8081B Pest (PSDDA) | 2/6/2023 | LMJ | |
| 23A0180-03 | A | LDW23-SC1158 | A 01 | 2.5 | 2.5 | 8081B Pest (PSDDA) | 2/6/2023 | LMJ | |
| 23A0180-04 | A | LDW23-SC1151 | A 01 | 2.5 | 2.5 | 8081B Pest (PSDDA) | 2/6/2023 | LMJ | |
| BLA0556-BLK1 | - | Blank | - | 2.5 | 2.5 | - | 2/6/2023 | LMJ | |
| BLA0556-BS1 | - | LCS | - | 2.5 | 2.5 | - | 2/6/2023 | LMJ | |
| BLA0556-BSD1 | - | LCS Dup | - | 2.5 | 2.5 | - | 2/6/2023 | LMJ | |
| BLA0556-MS1 | - | Matrix Spike | - | 2.5 | 2.5 | - | 2/6/2023 | LMJ | |
| BLA0556-MSD1 | - | Matrix Spike Dup | - | 2.5 | 2.5 | - | 2/6/2023 | LMJ | |



Form I
METHOD BLANK DATA SHEET
EPA 8081B

| |
|-------|
| Blank |
|-------|

| | | | |
|-------------|----------------------------------|----------------|---|
| Laboratory: | <u>Analytical Resources, LLC</u> | SDG: | <u>23A0180</u> |
| Client: | <u>Anchor QEA, LLC</u> | Project: | <u>AOC5 MR Phase 1</u> |
| Matrix: | <u>Solid</u> | Laboratory ID: | <u>BLA0556-BLK1</u> |
| Sampled: | <u>N/A</u> | Prepared: | <u>01/26/23 12:35</u> |
| Solids: | | Preparation: | <u>EPA 3546 (Microwave)</u> |
| Batch: | <u>BLA0556</u> | Sequence: | <u>SLB0156</u> |
| Instrument: | <u>ECD6</u> | Column: | <u>STX-CLP</u> |
| | | File ID: | <u>23020925.D</u> |
| | | Analyzed: | <u>02/10/23 02:39</u> |
| | | Initial/Final: | <u>12.5 g / 2.5 mL</u> |
| | | Calibration: | <u>FL00041</u> |
| | | Cleanups: | <u>GPC, Silica Gel, Sulfur, Sulfuric Acid</u> |

| CAS NO. | COMPOUND | DILUTION | CONC: (ug/kg wet) | Q | DL | RL |
|----------------------------|-------------------|-----------------------|-----------------------|-------|-----------|------|
| 118-74-1 | Hexachlorobenzene | 1 | 0.50 | U | 0.15 | 0.50 |
| SURROGATES | | ADDED: (ug/kg wet) | FOUND: (ug/kg wet) | % REC | QC LIMITS | Q |
| Decachlorobiphenyl | | 8.0000 | 10.6 | 132 | 30 - 160 | |
| Decachlorobiphenyl [2C] | | 8.0000 | 11.2 | 140 | 30 - 160 | |
| Tetrachlorometaxylene | | 8.0000 | 8.54 | 107 | 30 - 160 | |
| Tetrachlorometaxylene [2C] | | 8.0000 | 7.85 | 98.1 | 30 - 160 | |

[2C] indicates second-column analyte, present if quantification on any batch samples used second column data.

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230209.b/23020925.D
Data file 2: /20230209.b/B20230209.b/23020925.D
Method: \20230209.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: AA/JR

ARI ID: BIA0556-BLK1
Client ID:
Injection Date: 10-FEB-2023 02:39
Report Date: 02/11/2023 07:13
Units: ng/mL
Dilution Factor: 1.000

| RT | STX-CLP Col Shift Response | CLP2 Col Shift Response | RT | CLP2 Shift Response | STX-CLP on col | CLP2 on col | RPD | Compound/Flag |
|-------|-------------------------------|----------------------------|----------------------|------------------------|-------------------|----------------|-----|----------------------|
| ---- | | ---- | | | 0.00 | 0.00 | --- | alpha-BHC |
| ---- | | ---- | | | 0.00 | 0.00 | --- | beta-BHC |
| ---- | | 5.688 0.027 | | 5432 | 0.00 | 0.26 | --- | delta-BHC |
| ---- | | ---- | | | 0.00 | 0.00 | --- | gamma-BHC (Lindane) |
| ---- | | 5.762 0.008 | | 1985 | 0.00 | 0.10 | --- | Heptachlor |
| ---- | | 6.140 -0.018 | | 31200 | 0.00 | 1.42 | --- | Aldrin |
| ---- | | 6.797 -0.017 | | 11082 | 0.00 | 0.61 | --- | Heptachlor epoxide b |
| ---- | | 7.268 0.010 | | 6645 | 0.00 | 0.41 | --- | Endosulfan I |
| ---- | | ---- | | | 0.00 | 0.00 | --- | Dieldrin |
| ---- | | 7.353 0.011 | | 15988 | 0.00 | 0.98 | --- | 4,4'-DDE |
| ---- | | 7.887 0.011 | | 3890 | 0.00 | 0.00 | --- | Endrin |
| ---- | | ---- | | | 0.00 | 0.00 | --- | Endosulfan II |
| ---- | | 7.974 0.026 | | 7519 | 0.00 | 0.00 | --- | 4,4'-DDD |
| ---- | | 8.693 0.006 | | 9885 | 0.00 | 0.00 | --- | Endosulfan sulfate |
| ---- | | 8.249 -0.018 | | 13761 | 0.00 | 0.00 | --- | 4,4'-DDT |
| ---- | | ---- | | | 0.00 | 0.00 | --- | Methoxychlor |
| ---- | | 9.182 -0.027 | | 50440 | 0.00 | 0.00 | --- | Endrin ketone |
| ---- | | ---- | | | 0.00 | 0.00 | --- | Endrin aldehyde |
| ---- | | 7.041 0.016 | | 11240 | 0.00 | 0.62 | --- | trans-Chlordane |
| ---- | | 7.207 0.022 | | 4103 | 0.00 | 0.23 | --- | cis-Chlordane |
| ---- | | 2.506 0.023 | | 9439 | 0.00 | 0.40 | --- | Hexachlorobutadiene |
| ---- | | 4.674 -0.019 | | 13166 | 0.00 | 0.58 | --- | Hexachlorobenzene |
| 3.791 | -0.009 466084 | | 4.182 -0.014 691728 | | 42.69 39.23 | 8.4 | --- | Tetrachloro-m-xylene |
| 9.306 | -0.013 328504 | | 10.402 -0.027 457793 | | 52.76 0.00 | --- | --- | Decachlorobiphenyl |

* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Column 1 | | | |
|--------------------|----------------|-------------|------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 672426 | 802874 | 19.4 |
| Hexabromobiphenyl | 609723 | 614530 | 0.8 |

| Column 2 | | | |
|--------------------|----------------|-------------|-----------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 1006482 | 1252661 | 24.5 |
| Hexabromobiphenyl | 769764 | 0 | -100.0 <- |

* Standard Areas taken from Initial Cal Level 5

Initial Calibration Date: 14-DEC-2022

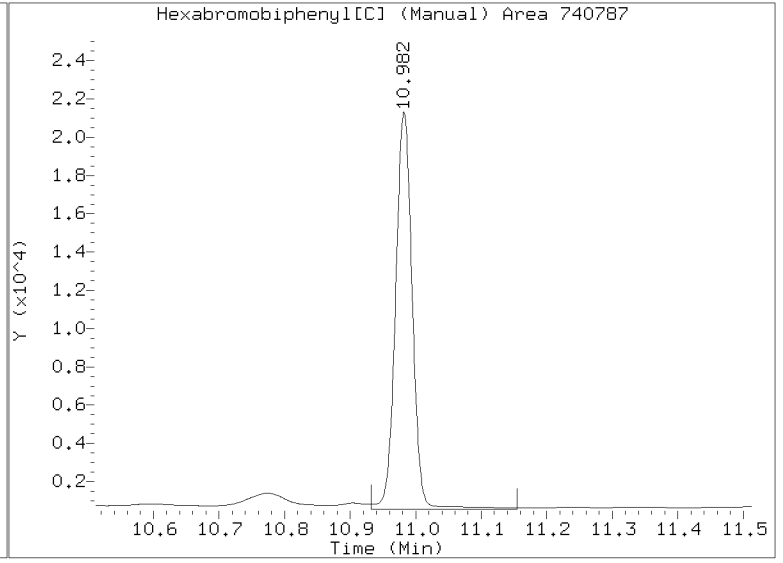
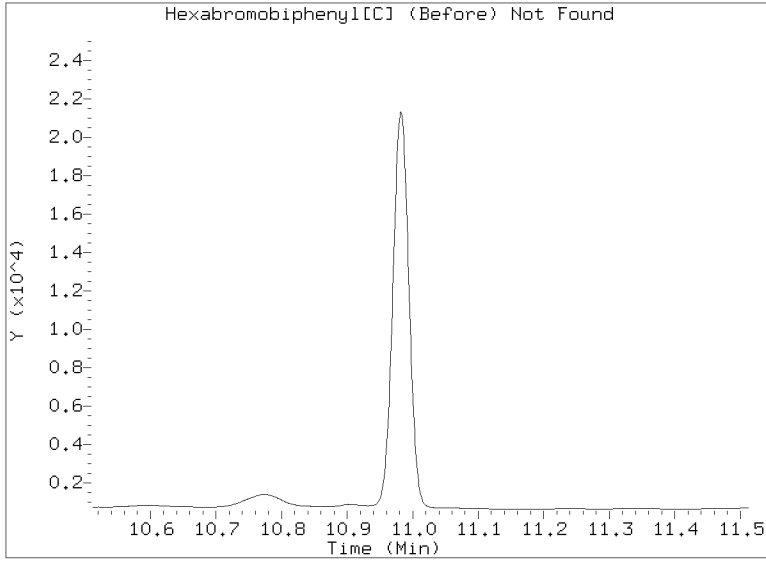
<- Indicates standard response outside Limits (-50 to +100%)

Manual Peak Adjustment Report, CLP-2

Datafile: /20230209.b/B20230209.b/23020925.D

Injection Date: 10-FEB-2023 02:39

Lab ID:BLA0556-BLK1 Client ID:





LCS / LCS DUPLICATE RECOVERY
EPA 8081B

| | | | |
|----------------|----------------------------------|----------------|------------------------|
| Laboratory: | <u>Analytical Resources, LLC</u> | SDG: | <u>23A0180</u> |
| Client: | <u>Anchor QEA, LLC</u> | Project: | <u>AOC5 MR Phase 1</u> |
| Matrix: | <u>Solid</u> | Analyzed: | <u>02/10/23 02:57</u> |
| Batch: | <u>BLA0556</u> | Laboratory ID: | <u>BLA0556-BS1</u> |
| Preparation: | <u>EPA 3546 (Microwave)</u> | Sequence Name: | <u>LCS</u> |
| Initial/Final: | <u>12.5 g / 2.5 mL</u> | | |

| COMPOUND | SPIKE ADDED (ug/kg wet) | LCS CONCENTRATION (ug/kg wet) | Q | LCS % REC. # | QC LIMITS REC. |
|-------------------|-------------------------|-------------------------------|---|--------------|----------------|
| Hexachlorobenzene | 4.00 | 2.93 | | 73.2 | 26 - 128 |

* Indicates values outside of QC limits

| COMPOUND | SPIKE ADDED (ug/kg wet) | LCSD CONCENTRATION (ug/kg wet) | Q | LCSD % REC. # | % RPD # | QC LIMITS | |
|-------------------|-------------------------|--------------------------------|---|---------------|---------|-----------|----------|
| | | | | | | RPD | REC. |
| Hexachlorobenzene | 4.00 | 3.04 | | 76.0 | 3.73 | 30 | 26 - 128 |

* Indicates values outside of QC limits

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230209.b/23020926.D
Data file 2: /20230209.b/B20230209.b/23020926.D
Method: \20230209.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: AA/JR

ARI ID: BIA0556-BS1
Client ID:
Injection Date: 10-FEB-2023 02:57
Report Date: 02/11/2023 06:18
Units: ng/mL
Dilution Factor: 1.000

| RT | STX-CLP Col Shift Response | CLP2 Col Response | RT | CLP2 Col Shift Response | CLP2 Col Response | STX-CLP on col | CLP2 on col | RPD | Compound/Flag |
|-------|-------------------------------|----------------------|--------|----------------------------|----------------------|-------------------|----------------|------|----------------------|
| 4.299 | -0.011 | 260763 | 4.816 | -0.017 | 406672 | 16.07 | 14.82 | 8.1 | alpha-BHC |
| 4.681 | -0.012 | 108690 | 5.291 | -0.019 | 164551 | 17.40 | 15.78 | 9.8 | beta-BHC |
| 4.863 | -0.013 | 241103 | 5.642 | -0.020 | 371203 | 18.18 | 16.43 | 10.1 | delta-BHC |
| 4.599 | -0.012 | 241144 | 5.210 | -0.019 | 367147 | 17.14 | 15.77 | 8.3 | gamma-BHC (Lindane) |
| 5.079 | -0.014 | 219690 | 5.734 | -0.021 | 332169 | 17.55 | 15.75 | 10.8 | Heptachlor |
| 5.400 | -0.014 | 226090 | 6.136 | -0.022 | 298505 | 16.12 | 12.40 | 26.1 | Aldrin |
| 6.072 | -0.016 | 203649 | 6.793 | -0.021 | 292638 | 16.74 | 14.70 | 13.0 | Heptachlor epoxide b |
| 6.515 | -0.015 | 302723 | 7.236 | -0.021 | 392600 | 27.12 | 22.37 | 19.2 | Endosulfan I |
| ---- | | | ---- | | | 0.00 | 0.00 | --- | Dieldrin |
| 6.436 | -0.015 | 393904 | 7.322 | -0.020 | 516674 | 35.38 | 29.06 | 19.6 | 4,4'-DDE |
| ---- | | | 7.865 | -0.011 | 4152 | 0.00 | 0.37 | --- | Endrin |
| 7.263 | -0.015 | 114627 | 8.067 | -0.020 | 143282 | 14.74 | 12.53 | 16.2 | Endosulfan II |
| 7.085 | -0.014 | 333564 | 7.929 | -0.019 | 423900 | 42.86 | 39.06 | 9.3 | 4,4'-DDD |
| 8.126 | -0.014 | 258483 | 8.666 | -0.020 | 265972 | 35.00 | 26.49 | 27.7 | Endosulfan sulfate |
| 7.377 | -0.014 | 333097 | 8.247 | -0.020 | 409098 | 42.35 | 39.06 | 8.1 | 4,4'-DDT |
| 7.865 | -0.012 | 22777 | 8.890 | -0.019 | 36500 | 6.54 | 7.88 | 18.6 | Methoxychlor |
| 8.400 | -0.015 | 291952 | 9.189 | -0.020 | 346781 | 34.51 | 31.97 | 7.6 | Endrin ketone |
| 7.692 | -0.015 | 26727 | 8.398 | -0.020 | 41139 | 4.31 | 5.10 | 16.8 | Endrin aldehyde |
| 6.214 | -0.016 | 213186 | 7.004 | -0.021 | 292617 | 17.26 | 14.74 | 15.8 | trans-Chlordane |
| 6.361 | -0.015 | 211225 | 7.164 | -0.021 | 271960 | 17.05 | 14.00 | 19.6 | cis-Chlordane |
| 2.296 | -0.007 | 230173 | ---- | | | 13.54 | 0.00 | --- | Hexachlorobutadiene |
| 4.142 | -0.010 | 220546 | 4.676 | -0.016 | 335731 | 14.64 | 13.45 | 8.5 | Hexachlorobenzene |
| 3.791 | -0.009 | 325945 | 4.183 | -0.014 | 512337 | 28.44 | 26.59 | 6.7 | Tetrachloro-m-xylene |
| 9.306 | -0.013 | 234849 | 10.403 | -0.026 | 310732 | 35.18 | 35.83 | 1.9 | Decachlorobiphenyl |

* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 672426 | 842752 | 25.3 |
| Hexabromobiphenyl | 609723 | 658929 | 8.1 |

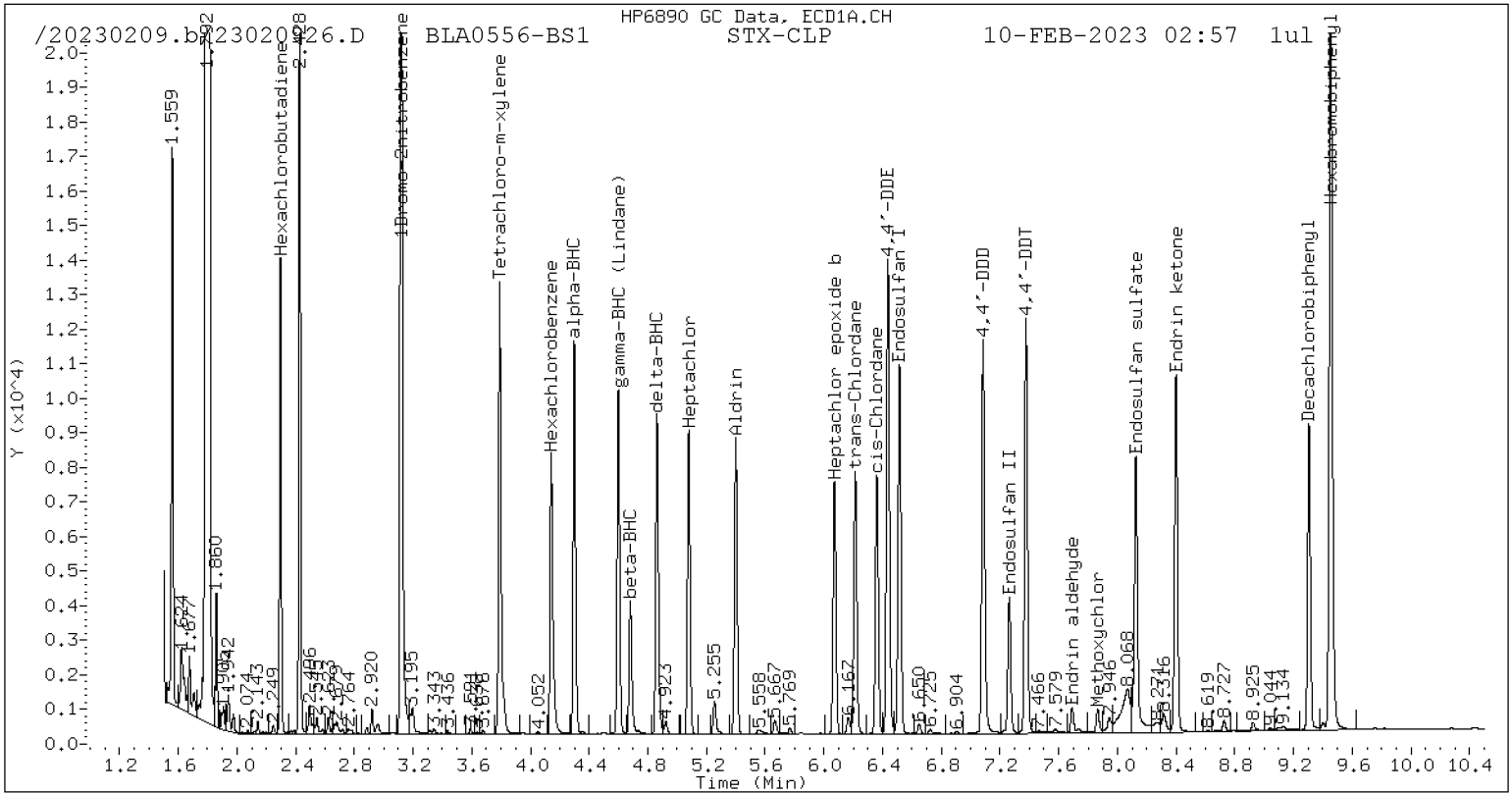
| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 1006482 | 1368797 | 36.0 |
| Hexabromobiphenyl | 769764 | 784600 | 1.9 |

* Standard Areas taken from Initial Cal Level 5

Initial Calibration Date: 14-DEC-2022

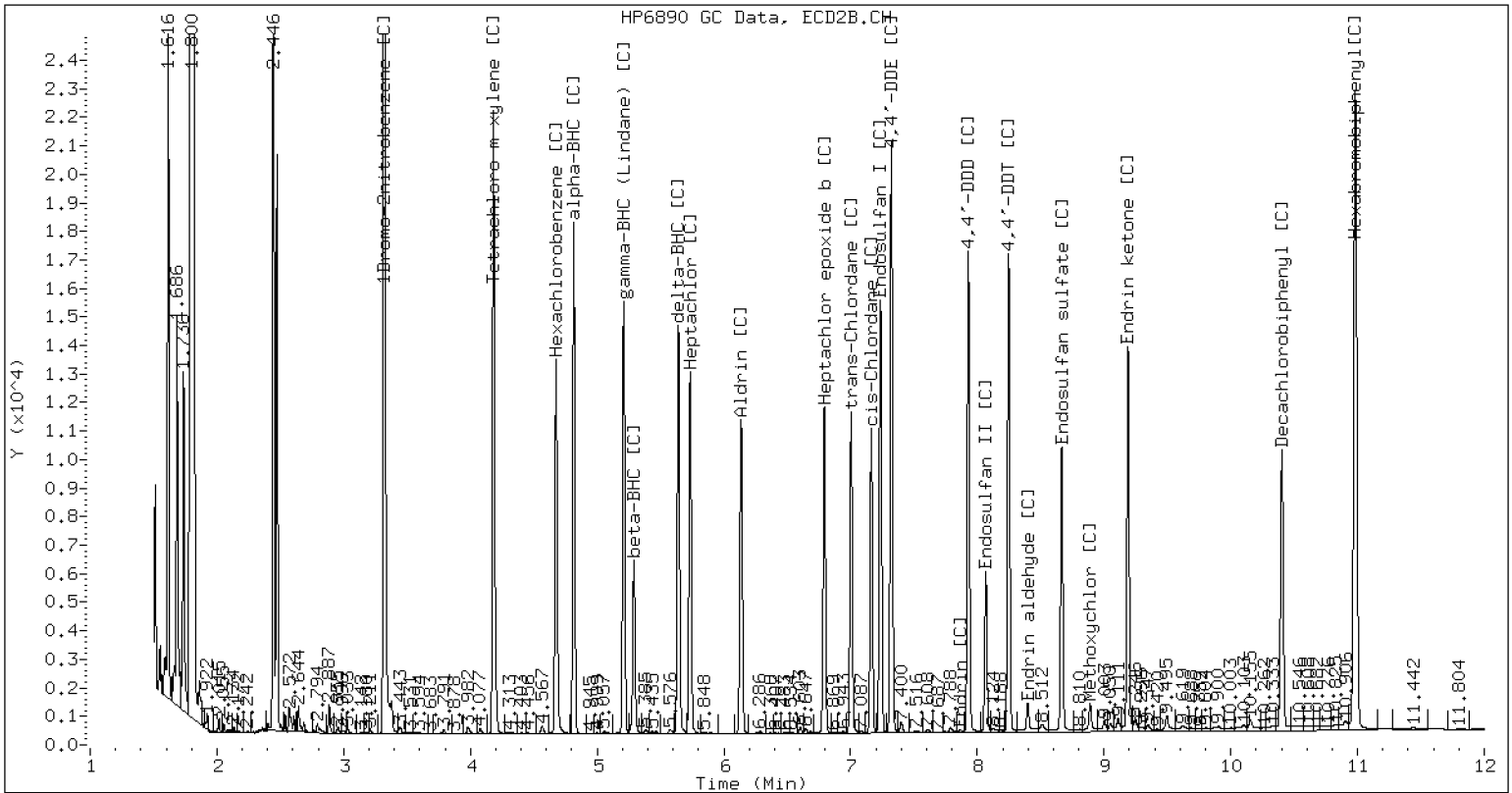
<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20230209.b/B20230209.b/23020926.D BLA0556-BS1 CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230209.b/23020927.D
Data file 2: /20230209.b/B20230209.b/23020927.D
Method: \20230209.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: AA/JR

ARI ID: BIA0556-BSD1
Client ID:
Injection Date: 10-FEB-2023 03:15
Report Date: 02/11/2023 06:18
Units: ng/mL
Dilution Factor: 1.000

| RT | STX-CLP Col Shift Response | CLP2 Col Response | RT | CLP2 Col Shift Response | CLP2 Col Response | STX-CLP on col | CLP2 on col | RPD | Compound/Flag |
|-------|-------------------------------|----------------------|--------|----------------------------|----------------------|-------------------|----------------|------|----------------------|
| 4.299 | -0.011 | 283890 | 4.816 | -0.017 | 441531 | 16.69 | 15.29 | 8.8 | alpha-BHC |
| 4.681 | -0.012 | 113400 | 5.291 | -0.019 | 174271 | 17.32 | 15.87 | 8.7 | beta-BHC |
| 4.863 | -0.012 | 255674 | 5.641 | -0.021 | 404845 | 18.39 | 17.02 | 7.8 | delta-BHC |
| 4.599 | -0.012 | 259103 | 5.210 | -0.019 | 406111 | 17.57 | 16.57 | 5.9 | gamma-BHC (Lindane) |
| 5.079 | -0.014 | 232631 | 5.733 | -0.021 | 362132 | 17.73 | 16.31 | 8.3 | Heptachlor |
| 5.400 | -0.014 | 240598 | 6.135 | -0.022 | 317477 | 16.36 | 12.52 | 26.6 | Aldrin |
| 6.072 | -0.016 | 214026 | 6.792 | -0.022 | 314221 | 16.79 | 14.99 | 11.3 | Heptachlor epoxide b |
| 6.516 | -0.015 | 322971 | 7.236 | -0.021 | 431407 | 27.60 | 23.35 | 16.7 | Endosulfan I |
| ---- | | | ---- | | | 0.00 | 0.00 | --- | Dieldrin |
| 6.437 | -0.015 | 418017 | 7.322 | -0.020 | 567587 | 35.82 | 30.32 | 16.6 | 4,4'-DDE |
| ---- | | | 7.864 | -0.011 | 3734 | 0.00 | 0.00 | --- | Endrin |
| 7.264 | -0.014 | 83871 | 8.067 | -0.021 | 101009 | 9.77 | 0.00 | --- | Endosulfan II |
| 7.086 | -0.013 | 358162 | 7.929 | -0.020 | 465342 | 41.67 | 0.00 | --- | 4,4'-DDD |
| 8.126 | -0.014 | 219273 | 8.665 | -0.021 | 283773 | 26.89 | 0.00 | --- | Endosulfan sulfates |
| 7.378 | -0.013 | 362579 | 8.247 | -0.020 | 444245 | 41.75 | 0.00 | --- | 4,4'-DDT |
| 7.865 | -0.012 | 12491 | 8.890 | -0.019 | 30819 | 3.25 | 0.00 | --- | Methoxychlor |
| 8.400 | -0.015 | 268889 | 9.189 | -0.021 | 325942 | 28.78 | 0.00 | --- | Endrin ketone |
| 7.692 | -0.015 | 19069 | 8.398 | -0.020 | 33068 | 2.78 | 0.00 | --- | Endrin aldehyde |
| 6.214 | -0.015 | 237839 | 7.004 | -0.021 | 320329 | 18.37 | 15.32 | 18.1 | trans-Chlordane |
| 6.361 | -0.015 | 221941 | 7.163 | -0.021 | 299815 | 17.09 | 14.66 | 15.3 | cis-Chlordane |
| 2.296 | -0.007 | 241764 | ---- | | | 13.57 | 0.00 | --- | Hexachlorobutadiene |
| 4.143 | -0.010 | 239992 | 4.676 | -0.017 | 366419 | 15.20 | 13.94 | 8.6 | Hexachlorobenzene |
| 3.791 | -0.009 | 350863 | 4.182 | -0.014 | 560932 | 29.20 | 27.65 | 5.5 | Tetrachloro-m-xylene |
| 9.306 | -0.013 | 230761 | 10.403 | -0.026 | 325036 | 31.30 | 0.00 | --- | Decachlorobiphenyl |

* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Column 1 | | | |
|--------------------|----------------|-------------|------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 672426 | 883445 | 31.4 |
| Hexabromobiphenyl | 609723 | 727664 | 19.3 |

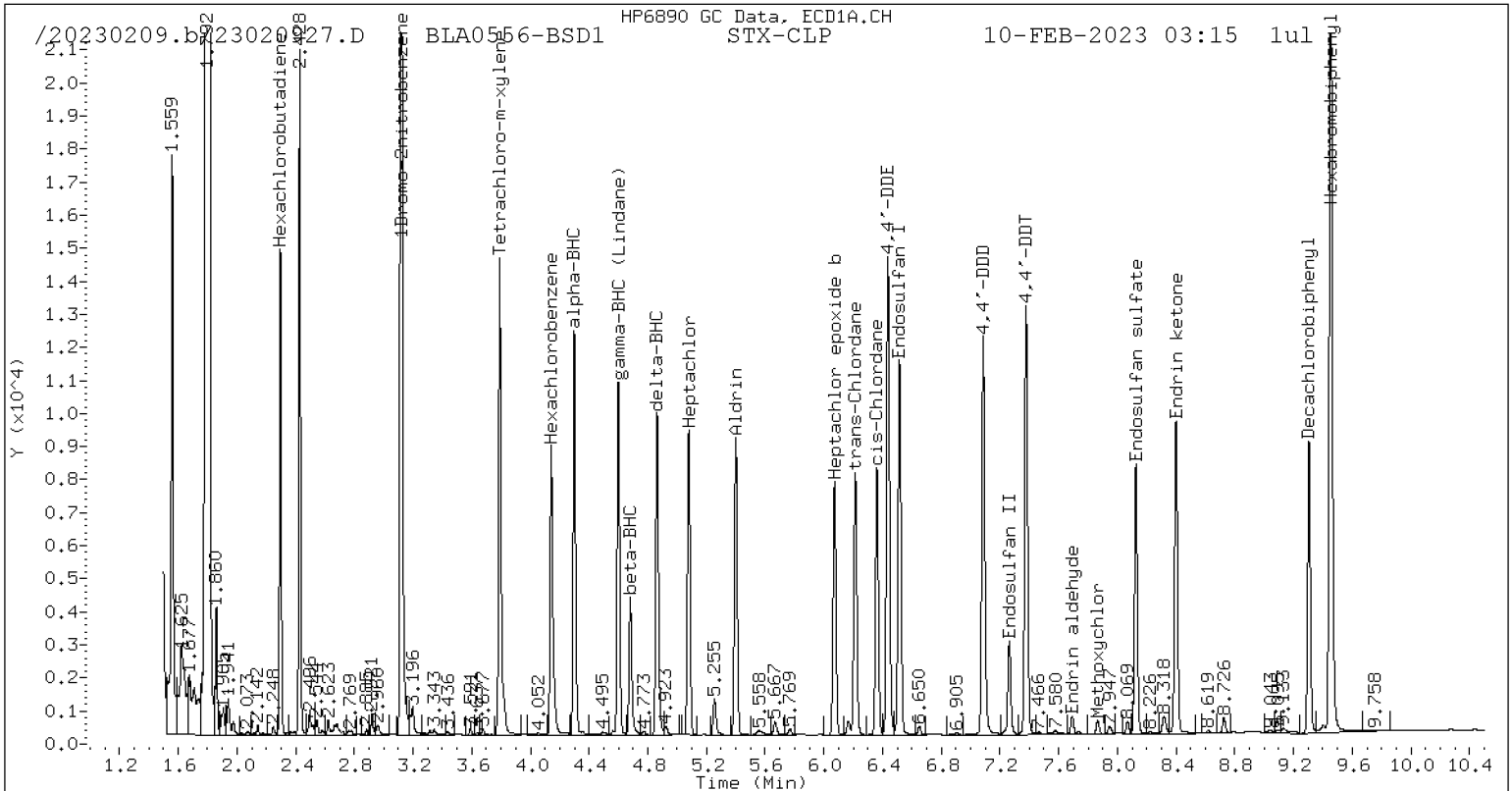
| Column 2 | | | |
|--------------------|----------------|-------------|-----------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 1006482 | 1441193 | 43.2 |
| Hexabromobiphenyl | 769764 | 0 | -100.0 <- |

* Standard Areas taken from Initial Cal Level 5

Initial Calibration Date: 14-DEC-2022

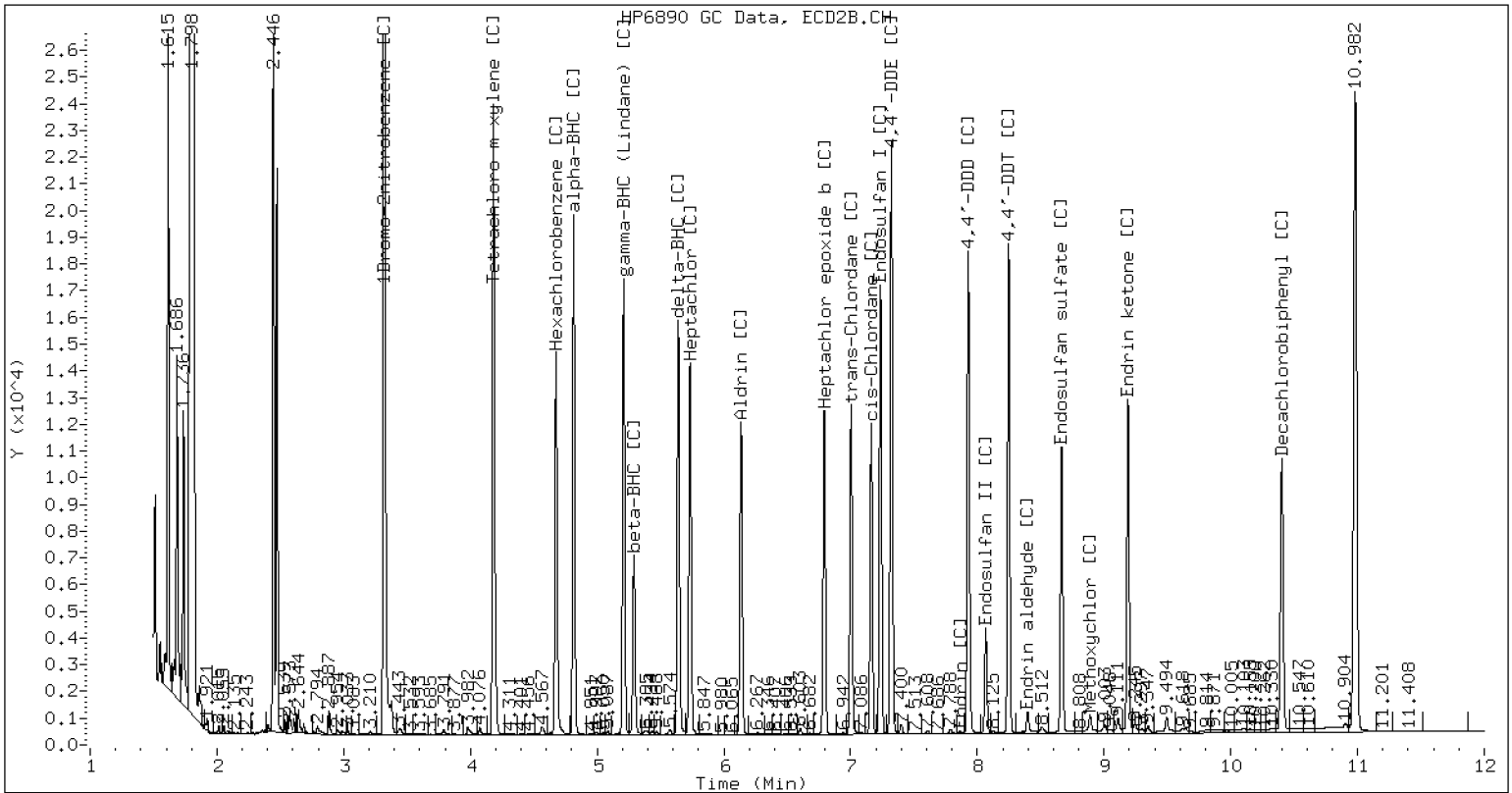
<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20230209.b/B20230209.b/23020927.D BLA0556-BSD1 CLP2



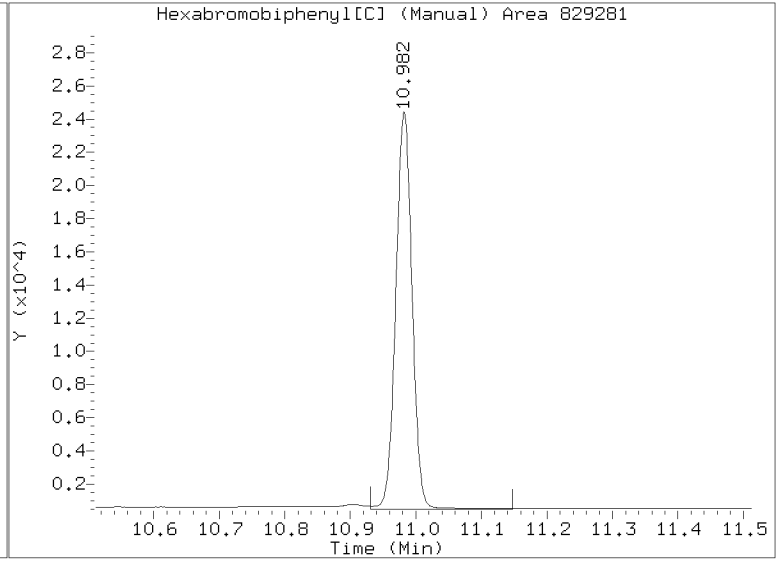
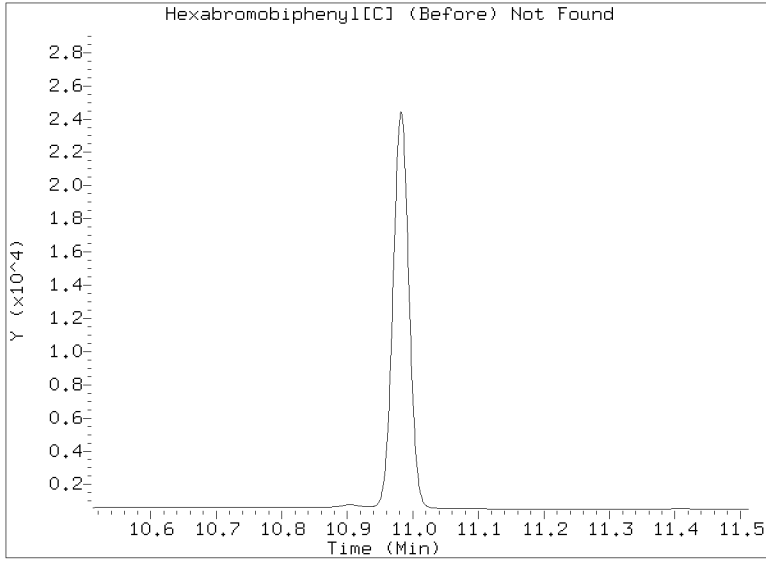
CLP-2 Manual Integration: NO

Manual Peak Adjustment Report, CLP-2

Datafile: /20230209.b/B20230209.b/23020927.D

Injection Date: 10-FEB-2023 03:15

Lab ID:BLA0556-BSD1 Client ID:





INITIAL CALIBRATION DATA
EPA 8081B

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Calibration: FL00041

Instrument: ECD6

Calibration Date: 12/14/2022

Column (1): STX-CLP

| Compound | Level 01 | | Level 02 | | Level 03 | | Level 04 | | Level 05 | | Level 06 | |
|-------------------------------------|----------|-----|----------|-----------|----------|-----------|----------|-----------|----------|-----------|----------|-----------|
| | Conc | RRF | Conc | RRF | Conc | RRF | Conc | RRF | Conc | RRF | Conc | RRF |
| alpha-BHC | | | 2.5 | 1.564682 | 5 | 1.558115 | 10 | 1.57359 | 20 | 1.566596 | 40 | 1.528219 |
| beta-BHC | | | 2.5 | 0.6501672 | 5 | 0.6116678 | 10 | 0.6049898 | 20 | 0.5910241 | 40 | 0.567415 |
| gamma-BHC (Lindane) | | | 2.5 | 1.364013 | 5 | 1.359107 | 10 | 1.367627 | 20 | 1.357913 | 40 | 1.317203 |
| delta-BHC | | | 2.5 | 1.267737 | 5 | 1.264366 | 10 | 1.278672 | 20 | 1.286232 | 40 | 1.255792 |
| Heptachlor | | | 2.5 | 1.26903 | 5 | 1.222902 | 10 | 1.218715 | 20 | 1.207966 | 40 | 1.145438 |
| Aldrin | | | 2.5 | 1.349967 | 5 | 1.349283 | 10 | 1.40535 | 20 | 1.372547 | 40 | 1.307197 |
| Heptachlor Epoxide | | | 2.5 | 1.231126 | 5 | 1.189593 | 10 | 1.20792 | 20 | 1.178021 | 40 | 1.104377 |
| trans-Chlordane (beta-Chlordane) | | | 2.5 | 1.262297 | 5 | 1.202181 | 10 | 1.202336 | 20 | 1.19062 | 40 | 1.128117 |
| cis-Chlordane (alpha-chlordane) | | | 2.5 | 1.308183 | 5 | 1.222582 | 10 | 1.200602 | 20 | 1.177182 | 40 | 1.111332 |
| Endosulfan I | | | 2.5 | 1.143813 | 5 | 1.097776 | 10 | 1.093658 | 20 | 1.076133 | 40 | 1.011287 |
| 4,4'-DDE | | | 5 | 1.141182 | 10 | 1.108491 | 20 | 1.098369 | 40 | 1.077225 | 80 | 0.9961189 |
| Dieldrin | | | 5 | 1.225418 | 10 | 1.190449 | 20 | 1.185191 | 40 | 1.155764 | 80 | 1.077517 |
| Endrin | | | 5 | 1.158191 | 10 | 1.117563 | 20 | 1.079508 | 40 | 1.061387 | 80 | 0.9725989 |
| Endosulfan II | | | 5 | 0.9400399 | 10 | 0.9913797 | 20 | 1.005265 | 40 | 0.925043 | 80 | 0.9337917 |
| 4,4'-DDD | | | 5 | 1.004568 | 10 | 0.9927897 | 20 | 0.9803235 | 40 | 0.9586353 | 80 | 0.8937077 |
| Endrin Aldehyde | | | 5 | 0.8167784 | 10 | 0.7834798 | 20 | 0.7706241 | 40 | 0.7573308 | 80 | 0.7147756 |
| 4,4'-DDT | | | 5 | 1.007054 | 10 | 0.9936998 | 20 | 0.9768522 | 40 | 0.9722874 | 80 | 0.9123228 |
| Endosulfan Sulfate | | | 5 | 0.9534179 | 10 | 0.9413755 | 20 | 0.9158457 | 40 | 0.9056998 | 80 | 0.8542021 |
| Endrin Ketone | | | 5 | 1.134866 | 10 | 1.083274 | 20 | 1.043162 | 40 | 1.021136 | 80 | 0.9645492 |
| Methoxychlor | | | 25 | 0.4887243 | 50 | 0.4567517 | 100 | 0.4291758 | 200 | 0.4123964 | 400 | 0.380531 |
| Hexachlorobutadiene | | | 2.5 | 1.967135 | 5 | 1.727858 | 10 | 1.608612 | 20 | 1.550898 | 40 | 1.457962 |
| Hexachlorobenzene | | | 2.5 | 1.583946 | 5 | 1.509865 | 10 | 1.463674 | 20 | 1.414258 | 40 | 1.348389 |
| Decachlorobiphenyl | | | 5 | 0.9567749 | 10 | 0.8690419 | 20 | 0.8114883 | 40 | 0.7853665 | 80 | 0.7399881 |
| Tetrachlorometaxylene | | | 5 | 1.223478 | 10 | 1.154628 | 20 | 1.122612 | 40 | 1.064313 | 80 | 1.018952 |



INITIAL CALIBRATION DATA
EPA 8081B

| | | | |
|-------------------|---------------------------|-------------|-----------------|
| Laboratory: | Analytical Resources, LLC | SDG: | 23A0180 |
| Client: | Anchor QEA, LLC | Project: | AOC5 MR Phase 1 |
| Calibration: | FL00041 | Instrument: | ECD6 |
| Calibration Date: | 12/14/2022 | Column (1): | STX-CLP |

| Compound | Level 13 | | Level 14 | | Level 15 | | Level 16 | | Level 17 | | Level 18 | |
|-----------------|----------|-----------|----------|-----------|----------|-----|----------|-----|----------|-----|----------|-----|
| | Conc | RRF | Conc | RRF | Conc | RRF | Conc | RRF | Conc | RRF | Conc | RRF |
| 2,4'-DDE | 80 | 0.7262802 | 160 | 0.6559468 | | | | | | | | |
| 2,4'-DDD | 80 | 0.6522807 | 160 | 0.6001736 | | | | | | | | |
| 2,4'-DDT | 80 | 0.7135595 | 160 | 0.6495601 | | | | | | | | |
| Oxychlordane | 80 | 0.9018234 | 160 | 0.8351028 | | | | | | | | |
| cis-Nonachlor | 80 | 1.140435 | 160 | 1.065099 | | | | | | | | |
| trans-Nonachlor | 80 | 1.167639 | 160 | 1.085646 | | | | | | | | |
| Mirex | 80 | 0.706171 | 160 | 0.6667706 | | | | | | | | |



INITIAL CALIBRATION DATA
EPA 8081B

| | | | |
|-------------------|---------------------------|-------------|-----------------|
| Laboratory: | Analytical Resources, LLC | SDG: | 23A0180 |
| Client: | Anchor QEA, LLC | Project: | AOC5 MR Phase 1 |
| Calibration: | FL00041 | Instrument: | ECD6 |
| Calibration Date: | 12/14/2022 | Column (1): | STX-CLP |

| COMPOUND | Mean RRF | RRF RSD | Linear COD | Quad COD | Limit Type & Limit | Q |
|----------------------------------|-----------|---------|------------|----------|--------------------|---|
| alpha-BHC | 1.540148 | 3.1 | | | RSD (20) | |
| beta-BHC | 0.5929524 | 6.8 | | | RSD (20) | |
| gamma-BHC (Lindane) | 1.33534 | 3.5 | | | RSD (20) | |
| delta-BHC | 1.258744 | 2.5 | | | RSD (20) | |
| Heptachlor | 1.188151 | 6.1 | | | RSD (20) | |
| Aldrin | 1.331535 | 5.2 | | | RSD (20) | |
| Heptachlor Epoxide | 1.15453 | 6.9 | | | RSD (20) | |
| trans-Chlordane (beta-Chlordane) | 1.172613 | 6.3 | | | RSD (20) | |
| cis-Chlordane (alpha-chlordane) | 1.176038 | 8.0 | | | RSD (20) | |
| Endosulfan I | 1.059517 | 7.1 | | | RSD (20) | |
| 4,4'-DDE | 1.056843 | 7.9 | | | RSD (20) | |
| Dieldrin | 1.138281 | 7.6 | | | RSD (20) | |
| Endrin | 1.048819 | 9.0 | | | RSD (20) | |
| Endosulfan II | 0.944155 | 5.2 | | | RSD (20) | |
| 4,4'-DDD | 0.9449058 | 6.9 | | | RSD (20) | |
| Endrin Aldehyde | 0.7530726 | 6.7 | | | RSD (20) | |
| 4,4'-DDT | 0.9548168 | 5.7 | | | RSD (20) | |
| Endosulfan Sulfate | 0.8965158 | 6.2 | | | RSD (20) | |
| Endrin Ketone | 1.027011 | 7.7 | | | RSD (20) | |
| Methoxychlor | 0.4231113 | 10.6 | | | RSD (20) | |
| Hexachlorobutadiene | 1.613515 | 13.2 | | | RSD (20) | |
| Hexachlorobenzene | 1.429894 | 8.1 | | | RSD (20) | |
| 2,4'-DDE | 0.7852778 | 10.3 | | | RSD (20) | |
| 2,4'-DDD | 0.698595 | 8.8 | | | RSD (20) | |
| 2,4'-DDT | 0.7548286 | 8.4 | | | RSD (20) | |
| Oxychlordane | 0.951144 | 7.5 | | | RSD (20) | |
| cis-Nonachlor | 1.211391 | 7.8 | | | RSD (20) | |
| trans-Nonachlor | 1.244025 | 8.1 | | | RSD (20) | |
| Mirex | 0.7535613 | 8.1 | | | RSD (20) | |
| Decachlorobiphenyl | 0.8105886 | 11.4 | | | RSD (20) | |
| Tetrachlorometaxylene | 1.087951 | 9.2 | | | RSD (20) | |



INITIAL CALIBRATION DATA
EPA 8081B

| | | | |
|-------------------|---------------------------|-------------|-----------------|
| Laboratory: | Analytical Resources, LLC | SDG: | 23A0180 |
| Client: | Anchor QEA, LLC | Project: | AOC5 MR Phase 1 |
| Calibration: | FL00041 | Instrument: | ECD6 |
| Calibration Date: | 12/14/2022 | Column (2): | STX-CLPII |

| Compound | Level 13 | | Level 14 | | Level 15 | | Level 16 | | Level 17 | | Level 18 | |
|----------------------|----------|-----------|----------|-----------|----------|-----|----------|-----|----------|-----|----------|-----|
| | Conc | RRF | Conc | RRF | Conc | RRF | Conc | RRF | Conc | RRF | Conc | RRF |
| 2,4'-DDE [2C] | 80 | 0.6667087 | 160 | 0.6020159 | | | | | | | | |
| 2,4'-DDD [2C] | 80 | 0.76623 | 160 | 0.7136982 | | | | | | | | |
| 2,4'-DDT [2C] | 80 | 0.7977257 | 160 | 0.7424898 | | | | | | | | |
| Oxychlorane [2C] | 80 | 0.8433342 | 160 | 0.7909247 | | | | | | | | |
| cis-Nonachlor [2C] | 80 | 1.313286 | 160 | 1.248174 | | | | | | | | |
| trans-Nonachlor [2C] | 80 | 1.376815 | 160 | 1.306683 | | | | | | | | |
| Mirex [2C] | 80 | 0.7399752 | 160 | 0.7075065 | | | | | | | | |



INITIAL CALIBRATION DATA
EPA 8081B

| | | | |
|-------------------|---------------------------|-------------|-----------------|
| Laboratory: | Analytical Resources, LLC | SDG: | 23A0180 |
| Client: | Anchor QEA, LLC | Project: | AOC5 MR Phase 1 |
| Calibration: | FL00041 | Instrument: | ECD6 |
| Calibration Date: | 12/14/2022 | Column (2): | STX-CLPII |

| COMPOUND | Mean RRF | RRF RSD | Linear COD | Quad COD | Limit Type & Limit | Q |
|---------------------------------------|-----------|---------|------------|----------|--------------------|---|
| alpha-BHC [2C] | 1.603265 | 1.9 | | | RSD (20) | |
| beta-BHC [2C] | 0.6095359 | 4.9 | | | RSD (20) | |
| gamma-BHC (Lindane) [2C] | 1.3606 | 1.9 | | | RSD (20) | |
| delta-BHC [2C] | 1.320624 | 1.3 | | | RSD (20) | |
| Heptachlor [2C] | 1.232502 | 3.9 | | | RSD (20) | |
| Aldrin [2C] | 1.407219 | 5.4 | | | RSD (20) | |
| Heptachlor Epoxide [2C] | 1.163645 | 7.1 | | | RSD (20) | |
| trans-Chlordane (beta-Chlordane) [2C] | 1.160417 | 5.2 | | | RSD (20) | |
| cis-Chlordane (alpha-chlordane) [2C] | 1.13523 | 6.5 | | | RSD (20) | |
| Endosulfan I [2C] | 1.025602 | 6.0 | | | RSD (20) | |
| 4,4'-DDE [2C] | 1.039168 | 6.3 | | | RSD (20) | |
| Dieldrin [2C] | 1.133177 | 7.5 | | | RSD (20) | |
| Endrin [2C] | 1.137486 | 7.6 | | | RSD (20) | |
| Endosulfan II [2C] | 1.165938 | 7.4 | | | RSD (20) | |
| 4,4'-DDD [2C] | 1.106416 | 7.0 | | | RSD (20) | |
| Endrin Aldehyde [2C] | 0.8224595 | 8.5 | | | RSD (20) | |
| 4,4'-DDT [2C] | 1.067896 | 5.9 | | | RSD (20) | |
| Endosulfan Sulfate [2C] | 1.023857 | 6.7 | | | RSD (20) | |
| Endrin Ketone [2C] | 1.10585 | 6.8 | | | RSD (20) | |
| Methoxychlor [2C] | 0.4725766 | 6.0 | | | RSD (20) | |
| Hexachlorobutadiene [2C] | 1.52251 | 16.8 | | | RSD (20) | |
| Hexachlorobenzene [2C] | 1.459109 | 7.2 | | | RSD (20) | |
| 2,4'-DDE [2C] | 0.7295523 | 11.8 | | | RSD (20) | |
| 2,4'-DDD [2C] | 0.8188656 | 8.8 | | | RSD (20) | |
| 2,4'-DDT [2C] | 0.8432439 | 8.1 | | | RSD (20) | |
| Oxychlordane [2C] | 0.8909094 | 7.3 | | | RSD (20) | |
| cis-Nonachlor [2C] | 1.361061 | 5.2 | | | RSD (20) | |
| trans-Nonachlor [2C] | 1.43157 | 5.4 | | | RSD (20) | |
| Mirex [2C] | 0.7915793 | 9.9 | | | RSD (20) | |
| Decachlorobiphenyl [2C] | 0.8841805 | 13.0 | | | RSD (20) | |
| Tetrachlorometaxylene [2C] | 1.126107 | 7.3 | | | RSD (20) | |



ANALYSIS SEQUENCE

SKL0233

Instrument: ECD6
Calibration ID: FL00041

Element Column ID:

| Lab Number | Sample Name | Analysis | Container | Order | STD ID | ISTD ID | Analyzed | Comments |
|--------------|-------------|----------|-----------|-------|---------|---------|----------|----------|
| SKL0233-PEM1 | DS1 | QC | | 1 | K007286 | K006953 | | |
| SKL0233-CAL1 | INDAA | QC | | 2 | K011594 | K006953 | | |
| SKL0233-CAL2 | INDAB | QC | | 3 | K011593 | K006953 | | |
| SKL0233-CAL3 | INDAC | QC | | 4 | K011592 | K006953 | | |
| SKL0233-CAL4 | INDAD | QC | | 5 | K011591 | K006953 | | |
| SKL0233-CAL5 | INDAE | QC | | 6 | K011590 | K006953 | | |
| SKL0233-CAL6 | INDAF | QC | | 7 | K011589 | K006953 | | |
| SKL0233-CAL7 | INDAG | QC | | 8 | K011463 | K006953 | | |
| SKL0233-CAL8 | WNDA | QC | | 9 | K011595 | K006953 | | |
| SKL0233-CAL9 | WNDB | QC | | 10 | K007148 | K006953 | | |
| SKL0233-CALA | WNDC | QC | | 11 | K007147 | K006953 | | |
| SKL0233-CALB | WNDD | QC | | 12 | K007146 | K006953 | | |
| SKL0233-CALC | WNDE | QC | | 13 | K007145 | K006953 | | |
| SKL0233-CALD | WPDF | QC | | 14 | K007144 | K006953 | | |
| SKL0233-CALE | WNDG | QC | | 15 | K007093 | K006953 | | |
| SKL0233-CALM | NOS1 | QC | | 16 | K007375 | K006953 | | |
| SKL0233-CALN | NOS2 | QC | | 17 | K007374 | K006953 | | |
| SKL0233-CALO | NOS3 | QC | | 18 | K007373 | K006953 | | |
| SKL0233-CALP | NOS4 | QC | | 19 | K007372 | K006953 | | |
| SKL0233-CALQ | NOS5 | QC | | 20 | K007371 | K006953 | | |
| SKL0233-CALR | NOS6 | QC | | 21 | K007370 | K006953 | | |
| SKL0233-CALS | NOS7 | QC | | 22 | K007287 | K006953 | | |



ANALYSIS SEQUENCE

SKL0233

Instrument: ECD6
Calibration ID: FL00041

Element Column ID:

| Lab Number | Sample Name | Analysis | Container | Order | STD ID | ISTD ID | Analyzed | Comments |
|--------------|-------------|----------|-----------|-------|---------|---------|----------|----------|
| SKL0233-CALF | TOXAPH1 | QC | | 23 | K011601 | K006953 | | |
| SKL0233-CALG | TOXAPH2 | QC | | 24 | K011600 | K006953 | | |
| SKL0233-CALH | TOXAPH3 | QC | | 25 | K011599 | K006953 | | |
| SKL0233-CALI | TOXAPH4 | QC | | 26 | K011598 | K006953 | | |
| SKL0233-CALJ | TOXAPH5 | QC | | 27 | K011597 | K006953 | | |
| SKL0233-CALK | TOXAPH6 | QC | | 28 | K011596 | K006953 | | |
| SKL0233-CALL | TOXAPH7 | QC | | 29 | K008546 | K006953 | | |

GC LOG SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20221214.b

| | Inject | Date/Time | Filename | DF | LabID | ClientID |
|----|-------------|-----------|------------|----|--------------|----------|
| 1 | 14-DEC-2022 | 19:27 | 22121401.D | 1 | RINSE | |
| 2 | 14-DEC-2022 | 19:44 | 22121402.D | 1 | RINSE | |
| 3 | 14-DEC-2022 | 20:02 | 22121403.D | 1 | SEQ-IBL1 | |
| 4 | 14-DEC-2022 | 20:20 | 22121404.D | 1 | SEQ-PEM1 | |
| 5 | 14-DEC-2022 | 20:38 | 22121405.D | 1 | SEQ-CAL1 | |
| 6 | 14-DEC-2022 | 20:56 | 22121406.D | 1 | SEQ-CAL2 | |
| 7 | 14-DEC-2022 | 21:14 | 22121407.D | 1 | SEQ-CAL3 | |
| 8 | 14-DEC-2022 | 21:31 | 22121408.D | 1 | SEQ-CAL4 | |
| 9 | 14-DEC-2022 | 21:49 | 22121409.D | 1 | SEQ-CAL5 | |
| 10 | 14-DEC-2022 | 22:07 | 22121410.D | 1 | SEQ-CAL6 | |
| 11 | 14-DEC-2022 | 22:25 | 22121411.D | 1 | SEQ-CAL7 | |
| 12 | 14-DEC-2022 | 22:43 | 22121412.D | 1 | SEQ-CAL8 | |
| 13 | 14-DEC-2022 | 23:01 | 22121413.D | 1 | SEQ-CAL9 | |
| 14 | 14-DEC-2022 | 23:19 | 22121414.D | 1 | SEQ-CALA | |
| 15 | 14-DEC-2022 | 23:36 | 22121415.D | 1 | SEQ-CALB | |
| 16 | 14-DEC-2022 | 23:54 | 22121416.D | 1 | SEQ-CALC | |
| 17 | 15-DEC-2022 | 00:12 | 22121417.D | 1 | SEQ-CALD | |
| 18 | 15-DEC-2022 | 00:30 | 22121418.D | 1 | SEQ-CALE | |
| 19 | 15-DEC-2022 | 00:48 | 22121419.D | 1 | SEQ-SCV1 | |
| 20 | 15-DEC-2022 | 01:06 | 22121420.D | 1 | SEQ-SCV2 | |
| 21 | 15-DEC-2022 | 01:24 | 22121421.D | 1 | SEQ-CAL1A | |
| 22 | 15-DEC-2022 | 01:42 | 22121422.D | 1 | SEQ-CAL2A | |
| 23 | 15-DEC-2022 | 01:59 | 22121423.D | 1 | SEQ-CAL3A | |
| 24 | 15-DEC-2022 | 02:17 | 22121424.D | 1 | SEQ-CAL4A | |
| 25 | 15-DEC-2022 | 02:35 | 22121425.D | 1 | SEQ-CAL5A | |
| 26 | 15-DEC-2022 | 02:53 | 22121426.D | 1 | SEQ-CAL6A | |
| 27 | 15-DEC-2022 | 03:11 | 22121427.D | 1 | SEQ-CAL7A | |
| 28 | 15-DEC-2022 | 03:29 | 22121428.D | 1 | SEQ-CAL8A | |
| 29 | 15-DEC-2022 | 03:46 | 22121429.D | 1 | SEQ-CAL9A | |
| 30 | 15-DEC-2022 | 04:04 | 22121430.D | 1 | SEQ-CALAA | |
| 31 | 15-DEC-2022 | 04:22 | 22121431.D | 1 | SEQ-CALAB | |
| 32 | 15-DEC-2022 | 04:40 | 22121432.D | 1 | SEQ-CALAC | |
| 33 | 15-DEC-2022 | 04:58 | 22121433.D | 1 | SEQ-CALAD | |
| 34 | 15-DEC-2022 | 05:16 | 22121434.D | 1 | SEQ-CALAE | |
| 35 | 15-DEC-2022 | 05:33 | 22121435.D | 1 | SEQ-PEM2 | |
| 36 | 15-DEC-2022 | 05:51 | 22121436.D | 1 | SEQ-ICV1 | |
| 37 | 15-DEC-2022 | 06:09 | 22121437.D | 1 | SEQ-ICV2 | |
| 38 | 15-DEC-2022 | 06:27 | 22121438.D | 1 | SEQ-ICV3 | |
| 39 | 15-DEC-2022 | 06:45 | 22121439.D | 1 | SEQ-ICV4 | |
| 40 | 15-DEC-2022 | 07:03 | 22121440.D | 1 | BKK0688-BLK1 | |
| 41 | 15-DEC-2022 | 07:21 | 22121441.D | 1 | BKK0688-BS1 | |
| 42 | 15-DEC-2022 | 07:39 | 22121442.D | 1 | BKK0688-BS2 | |
| 43 | 15-DEC-2022 | 07:57 | 22121443.D | 1 | BKK0688-BS3 | |
| 44 | 15-DEC-2022 | 08:15 | 22121444.D | 1 | BKK0688-BSD1 | |
| 45 | 15-DEC-2022 | 08:32 | 22121445.D | 1 | BKK0142-BLK1 | |
| 46 | 15-DEC-2022 | 08:50 | 22121446.D | 1 | BKK0142-BS1 | |
| 47 | 15-DEC-2022 | 09:08 | 22121447.D | 1 | BKK0142-BS2 | |
| 48 | 15-DEC-2022 | 09:26 | 22121448.D | 1 | BKK0142-BSD1 | |
| 49 | 15-DEC-2022 | 09:44 | 22121449.D | 1 | BKK0142-MS1 | |
| 50 | 15-DEC-2022 | 10:02 | 22121450.D | 1 | BKK0142-MSD1 | |

| | Inject Date/Time | Filename | DF | LabID | ClientID |
|----|-------------------|------------|----|---------------|----------|
| 51 | 15-DEC-2022 10:20 | 22121451.D | 1 | 22J0513-01 | |
| 52 | 15-DEC-2022 10:38 | 22121452.D | 1 | 22J0513-04 | |
| 53 | 15-DEC-2022 10:55 | 22121453.D | 1 | 22J0535-01 | |
| 54 | 15-DEC-2022 11:13 | 22121454.D | 1 | 22K0429-01 | |
| 55 | 15-DEC-2022 11:31 | 22121455.D | 1 | 22K0429-02 | |
| 56 | 15-DEC-2022 11:49 | 22121456.D | 1 | 22K0429-03 | |
| 57 | 15-DEC-2022 12:07 | 22121457.D | 1 | SEQ-PEM3 | |
| 58 | 15-DEC-2022 12:25 | 22121458.D | 1 | SEQ-CCV1 | |
| 59 | 15-DEC-2022 12:43 | 22121459.D | 1 | SEQ-CCV2 | |
| 60 | 15-DEC-2022 13:01 | 22121460.D | 1 | SEQ-CCV3 | |
| 61 | 15-DEC-2022 13:19 | 22121461.D | 1 | SEQ-CCV4 | |
| 62 | 15-DEC-2022 13:36 | 22121462.D | 1 | BKK0380-BLK1 | |
| 63 | 15-DEC-2022 13:54 | 22121463.D | 1 | BKK0380-BS1 | |
| 64 | 15-DEC-2022 14:12 | 22121464.D | 1 | BKK0380-BSD1 | |
| 65 | 15-DEC-2022 14:30 | 22121465.D | 1 | 22K0157-01 | |
| 66 | 15-DEC-2022 14:48 | 22121466.D | 1 | 22K0230-01 | |
| 67 | 15-DEC-2022 15:06 | 22121467.D | 1 | 22K0231-01 | |
| 68 | 15-DEC-2022 15:24 | 22121468.D | 1 | BKK0382-BLK1 | |
| 69 | 15-DEC-2022 15:42 | 22121469.D | 1 | BKK0382-BS1 | |
| 70 | 15-DEC-2022 16:00 | 22121470.D | 1 | BKK0382-BS2 | |
| 71 | 15-DEC-2022 16:18 | 22121471.D | 1 | BKK0382-BSD1 | |
| 72 | 15-DEC-2022 16:35 | 22121472.D | 1 | 22K0075-01 | |
| 73 | 15-DEC-2022 16:53 | 22121473.D | 1 | SEQ-PEM4 | |
| 74 | 15-DEC-2022 17:11 | 22121474.D | 1 | SEQ-CCV5 | |
| 75 | 15-DEC-2022 17:29 | 22121475.D | 1 | SEQ-CCV6 | |
| 76 | 15-DEC-2022 17:47 | 22121476.D | 1 | SEQ-CCV7 | |
| 77 | 15-DEC-2022 18:05 | 22121477.D | 1 | SEQ-CCV8 | |
| 78 | 15-DEC-2022 18:23 | 22121478.D | 1 | BKK0537-BLK1 | |
| 79 | 15-DEC-2022 18:40 | 22121479.D | 1 | BKK0537-BS1 | |
| 80 | 15-DEC-2022 18:58 | 22121480.D | 1 | BKK0537-BS2 | |
| 81 | 15-DEC-2022 19:16 | 22121481.D | 1 | 22K0194-01 | |
| 82 | 15-DEC-2022 19:34 | 22121482.D | 1 | 22K0194-01RE1 | 10 |
| 83 | 15-DEC-2022 19:52 | 22121483.D | 1 | SEQ-PEM5 | |
| 84 | 15-DEC-2022 20:09 | 22121484.D | 1 | SEQ-CCV9 | |
| 85 | 15-DEC-2022 20:27 | 22121485.D | 1 | SEQ-CCVA | |
| 86 | 15-DEC-2022 20:45 | 22121486.D | 1 | SEQ-CCVB | |
| 87 | 15-DEC-2022 21:03 | 22121487.D | 1 | SEQ-CCVC | |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20221214.b

ARI Job No.: RINS Method: PEST.m Instrument: ecd6.i Date: 14-DEC-2022

| Time | Filename | LabID | ClientId | DF | Manually Integrated Compounds |
|------|------------|----------|----------|----|-------------------------------|
| 1927 | 22121401.D | RINSE | | 1 | NO MANUAL INTEGRATION |
| 1944 | 22121402.D | RINSE | | 1 | NO MANUAL INTEGRATION |
| 2002 | 22121403.D | SEQ-IBL1 | | 1 | NO MANUAL INTEGRATION |
| 2020 | 22121404.D | SEQ-PEM1 | | 1 | NO MANUAL INTEGRATION |
| 2038 | 22121405.D | SEQ-CAL1 | | 1 | NO MANUAL INTEGRATION |
| 2056 | 22121406.D | SEQ-CAL2 | | 1 | NO MANUAL INTEGRATION |
| 2114 | 22121407.D | SEQ-CAL3 | | 1 | NO MANUAL INTEGRATION |
| 2131 | 22121408.D | SEQ-CAL4 | | 1 | NO MANUAL INTEGRATION |
| 2149 | 22121409.D | SEQ-CAL5 | | 1 | NO MANUAL INTEGRATION |
| 2207 | 22121410.D | SEQ-CAL6 | | 1 | NO MANUAL INTEGRATION |
| 2225 | 22121411.D | SEQ-CAL7 | | 1 | NO MANUAL INTEGRATION |
| 2243 | 22121412.D | SEQ-CAL8 | | 1 | NO MANUAL INTEGRATION |
| 2301 | 22121413.D | SEQ-CAL9 | | 1 | NO MANUAL INTEGRATION |
| 2319 | 22121414.D | SEQ-CALA | | 1 | NO MANUAL INTEGRATION |
| 2336 | 22121415.D | SEQ-CALB | | 1 | NO MANUAL INTEGRATION |
| 2354 | 22121416.D | SEQ-CALC | | 1 | NO MANUAL INTEGRATION |
| 0012 | 22121417.D | SEQ-CALD | | 1 | NO MANUAL INTEGRATION |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20221214.b

| Time | Filename | LabID | ClientId | DF | Manually Integrated Compounds |
|------|------------|-----------|----------|----|-------------------------------|
| 0030 | 22121418.D | SEQ-CALE | 1 | | NO MANUAL INTEGRATION |
| 0048 | 22121419.D | SEQ-SCV1 | 1 | | NO MANUAL INTEGRATION |
| 0106 | 22121420.D | SEQ-SCV2 | 1 | | NO MANUAL INTEGRATION |
| 0124 | 22121421.D | SEQ-CAL1A | 1 | | NO MANUAL INTEGRATION |
| 0142 | 22121422.D | SEQ-CAL2A | 1 | | NO MANUAL INTEGRATION |
| 0159 | 22121423.D | SEQ-CAL3A | 1 | | NO MANUAL INTEGRATION |
| 0217 | 22121424.D | SEQ-CAL4A | 1 | | NO MANUAL INTEGRATION |
| 0235 | 22121425.D | SEQ-CAL5A | 1 | | NO MANUAL INTEGRATION |
| 0253 | 22121426.D | SEQ-CAL6A | 1 | | NO MANUAL INTEGRATION |
| 0311 | 22121427.D | SEQ-CAL7A | 1 | | NO MANUAL INTEGRATION |
| 0329 | 22121428.D | SEQ-CAL8A | 1 | | NO MANUAL INTEGRATION |
| 0346 | 22121429.D | SEQ-CAL9A | 1 | | NO MANUAL INTEGRATION |
| 0404 | 22121430.D | SEQ-CALAA | 1 | | NO MANUAL INTEGRATION |
| 0422 | 22121431.D | SEQ-CALAB | 1 | | NO MANUAL INTEGRATION |
| 0440 | 22121432.D | SEQ-CALAC | 1 | | NO MANUAL INTEGRATION |
| 0458 | 22121433.D | SEQ-CALAD | 1 | | NO MANUAL INTEGRATION |
| 0516 | 22121434.D | SEQ-CALAE | 1 | | NO MANUAL INTEGRATION |
| 0533 | 22121435.D | SEQ-PEM2 | 1 | | NO MANUAL INTEGRATION |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20221214.b

| Time | Filename | LabID | ClientId | DF | Manually Integrated Compounds |
|------|------------|--------------|----------|----|-------------------------------|
| 0551 | 22121436.D | SEQ-ICV1 | 1 | | NO MANUAL INTEGRATION |
| 0609 | 22121437.D | SEQ-ICV2 | 1 | | NO MANUAL INTEGRATION |
| 0627 | 22121438.D | SEQ-ICV3 | 1 | | NO MANUAL INTEGRATION |
| 0645 | 22121439.D | SEQ-ICV4 | 1 | | NO MANUAL INTEGRATION |
| 0703 | 22121440.D | BKK0688-BLK1 | 1 | | NO MANUAL INTEGRATION |
| 0721 | 22121441.D | BKK0688-BS1 | 1 | | NO MANUAL INTEGRATION |
| 0739 | 22121442.D | BKK0688-BS2 | 1 | | NO MANUAL INTEGRATION |
| 0757 | 22121443.D | BKK0688-BS3 | 1 | | NO MANUAL INTEGRATION |
| 0815 | 22121444.D | BKK0688-BSD1 | 1 | | NO MANUAL INTEGRATION |
| 0832 | 22121445.D | BKK0142-BLK1 | 1 | | NO MANUAL INTEGRATION |
| 0850 | 22121446.D | BKK0142-BS1 | 1 | | NO MANUAL INTEGRATION |
| 0908 | 22121447.D | BKK0142-BS2 | 1 | | NO MANUAL INTEGRATION |
| 0926 | 22121448.D | BKK0142-BSD1 | 1 | | NO MANUAL INTEGRATION |
| 0944 | 22121449.D | BKK0142-MS1 | 1 | | NO MANUAL INTEGRATION |
| 1002 | 22121450.D | BKK0142-MSD1 | 1 | | NO MANUAL INTEGRATION |
| 1020 | 22121451.D | 22J0513-01 | 1 | | NO MANUAL INTEGRATION |
| 1038 | 22121452.D | 22J0513-04 | 1 | | NO MANUAL INTEGRATION |
| 1055 | 22121453.D | 22J0535-01 | 1 | | trans-Chlordane, |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20221214.b

| Time | Filename | LabID | ClientId | DF | Manually Integrated Compounds |
|------|------------|--------------|----------|----|-------------------------------|
| 1113 | 22121454.D | 22K0429-01 | 1 | | Heptachlor epoxide b, |
| 1131 | 22121455.D | 22K0429-02 | 1 | | Heptachlor epoxide b, |
| 1149 | 22121456.D | 22K0429-03 | 1 | | Hexachlorobenzene, |
| 1207 | 22121457.D | SEQ-PEM3 | 1 | | NO MANUAL INTEGRATION |
| 1225 | 22121458.D | SEQ-CCV1 | 1 | | NO MANUAL INTEGRATION |
| 1243 | 22121459.D | SEQ-CCV2 | 1 | | NO MANUAL INTEGRATION |
| 1301 | 22121460.D | SEQ-CCV3 | 1 | | NO MANUAL INTEGRATION |
| 1319 | 22121461.D | SEQ-CCV4 | 1 | | NO MANUAL INTEGRATION |
| 1336 | 22121462.D | BKK0380-BLK1 | 1 | | NO MANUAL INTEGRATION |
| 1354 | 22121463.D | BKK0380-BS1 | 1 | | NO MANUAL INTEGRATION |
| 1412 | 22121464.D | BKK0380-BSD1 | 1 | | NO MANUAL INTEGRATION |
| 1430 | 22121465.D | 22K0157-01 | 1 | | NO MANUAL INTEGRATION |
| 1448 | 22121466.D | 22K0230-01 | 1 | | NO MANUAL INTEGRATION |
| 1506 | 22121467.D | 22K0231-01 | 1 | | NO MANUAL INTEGRATION |
| 1524 | 22121468.D | BKK0382-BLK1 | 1 | | NO MANUAL INTEGRATION |
| 1542 | 22121469.D | BKK0382-BS1 | 1 | | NO MANUAL INTEGRATION |
| 1600 | 22121470.D | BKK0382-BS2 | 1 | | NO MANUAL INTEGRATION |
| 1618 | 22121471.D | BKK0382-BSD1 | 1 | | NO MANUAL INTEGRATION |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20221214.b

| Time | Filename | LabID | ClientId | DF | Manually Integrated Compounds |
|------|------------|------------------|----------|----|-------------------------------|
| 1635 | 22121472.D | 22K0075-01 | | 1 | NO MANUAL INTEGRATION |
| 1653 | 22121473.D | SEQ-PEM4 | | 1 | NO MANUAL INTEGRATION |
| 1711 | 22121474.D | SEQ-CCV5 | | 1 | NO MANUAL INTEGRATION |
| 1729 | 22121475.D | SEQ-CCV6 | | 1 | NO MANUAL INTEGRATION |
| 1747 | 22121476.D | SEQ-CCV7 | | 1 | NO MANUAL INTEGRATION |
| 1805 | 22121477.D | SEQ-CCV8 | | 1 | NO MANUAL INTEGRATION |
| 1823 | 22121478.D | BKK0537-BLK1 | | 1 | NO MANUAL INTEGRATION |
| 1840 | 22121479.D | BKK0537-BS1 | | 1 | NO MANUAL INTEGRATION |
| 1858 | 22121480.D | BKK0537-BS2 | | 1 | NO MANUAL INTEGRATION |
| 1916 | 22121481.D | 22K0194-01 | | 1 | NO MANUAL INTEGRATION |
| 1934 | 22121482.D | 22K0194-01RE1 10 | | 1 | NO MANUAL INTEGRATION |
| 1952 | 22121483.D | SEQ-PEM5 | | 1 | NO MANUAL INTEGRATION |
| 2009 | 22121484.D | SEQ-CCV9 | | 1 | NO MANUAL INTEGRATION |
| 2027 | 22121485.D | SEQ-CCVA | | 1 | NO MANUAL INTEGRATION |
| 2045 | 22121486.D | SEQ-CCVB | | 1 | NO MANUAL INTEGRATION |
| 2103 | 22121487.D | SEQ-CCVC | | 1 | NO MANUAL INTEGRATION |
| 1927 | 22121401.D | RINSE | | 1 | NO MANUAL INTEGRATION |
| 1944 | 22121402.D | RINSE | | 1 | NO MANUAL INTEGRATION |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20221214.b\B20221214.b

| Time | Filename | LabID | ClientId | DF | Manually Integrated Compounds |
|------|------------|----------|----------|----|-------------------------------|
| 2002 | 22121403.D | SEQ-IBL1 | 1 | | NO MANUAL INTEGRATION |
| 2020 | 22121404.D | SEQ-PEM1 | 1 | | NO MANUAL INTEGRATION |
| 2038 | 22121405.D | SEQ-CAL1 | 1 | | NO MANUAL INTEGRATION |
| 2056 | 22121406.D | SEQ-CAL2 | 1 | | NO MANUAL INTEGRATION |
| 2114 | 22121407.D | SEQ-CAL3 | 1 | | NO MANUAL INTEGRATION |
| 2131 | 22121408.D | SEQ-CAL4 | 1 | | NO MANUAL INTEGRATION |
| 2149 | 22121409.D | SEQ-CAL5 | 1 | | NO MANUAL INTEGRATION |
| 2207 | 22121410.D | SEQ-CAL6 | 1 | | NO MANUAL INTEGRATION |
| 2225 | 22121411.D | SEQ-CAL7 | 1 | | NO MANUAL INTEGRATION |
| 2243 | 22121412.D | SEQ-CAL8 | 1 | | NO MANUAL INTEGRATION |
| 2301 | 22121413.D | SEQ-CAL9 | 1 | | NO MANUAL INTEGRATION |
| 2319 | 22121414.D | SEQ-CALA | 1 | | NO MANUAL INTEGRATION |
| 2336 | 22121415.D | SEQ-CALB | 1 | | NO MANUAL INTEGRATION |
| 2354 | 22121416.D | SEQ-CALC | 1 | | NO MANUAL INTEGRATION |
| 0012 | 22121417.D | SEQ-CALD | 1 | | NO MANUAL INTEGRATION |
| 0030 | 22121418.D | SEQ-CALE | 1 | | NO MANUAL INTEGRATION |
| 0048 | 22121419.D | SEQ-SCV1 | 1 | | NO MANUAL INTEGRATION |
| 0106 | 22121420.D | SEQ-SCV2 | 1 | | NO MANUAL INTEGRATION |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20221214.b\B20221214.b

| Time | Filename | LabID | ClientId | DF | Manually Integrated Compounds |
|------|------------|-----------|----------|----|-------------------------------|
| 0124 | 22121421.D | SEQ-CAL1A | 1 | | NO MANUAL INTEGRATION |
| 0142 | 22121422.D | SEQ-CAL2A | 1 | | NO MANUAL INTEGRATION |
| 0159 | 22121423.D | SEQ-CAL3A | 1 | | NO MANUAL INTEGRATION |
| 0217 | 22121424.D | SEQ-CAL4A | 1 | | NO MANUAL INTEGRATION |
| 0235 | 22121425.D | SEQ-CAL5A | 1 | | NO MANUAL INTEGRATION |
| 0253 | 22121426.D | SEQ-CAL6A | 1 | | NO MANUAL INTEGRATION |
| 0311 | 22121427.D | SEQ-CAL7A | 1 | | NO MANUAL INTEGRATION |
| 0329 | 22121428.D | SEQ-CAL8A | 1 | | NO MANUAL INTEGRATION |
| 0346 | 22121429.D | SEQ-CAL9A | 1 | | NO MANUAL INTEGRATION |
| 0404 | 22121430.D | SEQ-CALAA | 1 | | NO MANUAL INTEGRATION |
| 0422 | 22121431.D | SEQ-CALAB | 1 | | NO MANUAL INTEGRATION |
| 0440 | 22121432.D | SEQ-CALAC | 1 | | NO MANUAL INTEGRATION |
| 0458 | 22121433.D | SEQ-CALAD | 1 | | NO MANUAL INTEGRATION |
| 0516 | 22121434.D | SEQ-CALAE | 1 | | NO MANUAL INTEGRATION |
| 0533 | 22121435.D | SEQ-PEM2 | 1 | | NO MANUAL INTEGRATION |
| 0551 | 22121436.D | SEQ-ICV1 | 1 | | NO MANUAL INTEGRATION |
| 0609 | 22121437.D | SEQ-ICV2 | 1 | | NO MANUAL INTEGRATION |
| 0627 | 22121438.D | SEQ-ICV3 | 1 | | NO MANUAL INTEGRATION |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20221214.b\B20221214.b

| Time | Filename | LabID | ClientId | DF | Manually Integrated Compounds |
|------|------------|--------------|----------|----|--|
| 0645 | 22121439.D | SEQ-ICV4 | 1 | | NO MANUAL INTEGRATION |
| 0703 | 22121440.D | BKK0688-BLK1 | 1 | | NO MANUAL INTEGRATION |
| 0721 | 22121441.D | BKK0688-BS1 | 1 | | NO MANUAL INTEGRATION |
| 0739 | 22121442.D | BKK0688-BS2 | 1 | | NO MANUAL INTEGRATION |
| 0757 | 22121443.D | BKK0688-BS3 | 1 | | NO MANUAL INTEGRATION |
| 0815 | 22121444.D | BKK0688-BSD1 | 1 | | NO MANUAL INTEGRATION |
| 0832 | 22121445.D | BKK0142-BLK1 | 1 | | NO MANUAL INTEGRATION |
| 0850 | 22121446.D | BKK0142-BS1 | 1 | | NO MANUAL INTEGRATION |
| 0908 | 22121447.D | BKK0142-BS2 | 1 | | NO MANUAL INTEGRATION |
| 0926 | 22121448.D | BKK0142-BSD1 | 1 | | NO MANUAL INTEGRATION |
| 0944 | 22121449.D | BKK0142-MS1 | 1 | | NO MANUAL INTEGRATION |
| 1002 | 22121450.D | BKK0142-MSD1 | 1 | | NO MANUAL INTEGRATION |
| 1020 | 22121451.D | 22J0513-01 | 1 | | NO MANUAL INTEGRATION |
| 1038 | 22121452.D | 22J0513-04 | 1 | | NO MANUAL INTEGRATION |
| 1055 | 22121453.D | 22J0535-01 | 1 | | trans-Chlordane [C], |
| 1113 | 22121454.D | 22K0429-01 | 1 | | NO MANUAL INTEGRATION |
| 1131 | 22121455.D | 22K0429-02 | 1 | | Aldrin [C], Heptachlor epoxide b [C], trans-Chlordane [C], |
| 1149 | 22121456.D | 22K0429-03 | 1 | | Aldrin [C], |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20221214.b\B20221214.b

| Time | Filename | LabID | ClientId | DF | Manually Integrated Compounds |
|------|------------|--------------|----------|----|-------------------------------|
| 1207 | 22121457.D | SEQ-PEM3 | 1 | | NO MANUAL INTEGRATION |
| 1225 | 22121458.D | SEQ-CCV1 | 1 | | NO MANUAL INTEGRATION |
| 1243 | 22121459.D | SEQ-CCV2 | 1 | | NO MANUAL INTEGRATION |
| 1301 | 22121460.D | SEQ-CCV3 | 1 | | NO MANUAL INTEGRATION |
| 1319 | 22121461.D | SEQ-CCV4 | 1 | | NO MANUAL INTEGRATION |
| 1336 | 22121462.D | BKK0380-BLK1 | 1 | | NO MANUAL INTEGRATION |
| 1354 | 22121463.D | BKK0380-BS1 | 1 | | NO MANUAL INTEGRATION |
| 1412 | 22121464.D | BKK0380-BSD1 | 1 | | NO MANUAL INTEGRATION |
| 1430 | 22121465.D | 22K0157-01 | 1 | | NO MANUAL INTEGRATION |
| 1448 | 22121466.D | 22K0230-01 | 1 | | NO MANUAL INTEGRATION |
| 1506 | 22121467.D | 22K0231-01 | 1 | | NO MANUAL INTEGRATION |
| 1524 | 22121468.D | BKK0382-BLK1 | 1 | | NO MANUAL INTEGRATION |
| 1542 | 22121469.D | BKK0382-BS1 | 1 | | NO MANUAL INTEGRATION |
| 1600 | 22121470.D | BKK0382-BS2 | 1 | | NO MANUAL INTEGRATION |
| 1618 | 22121471.D | BKK0382-BSD1 | 1 | | NO MANUAL INTEGRATION |
| 1635 | 22121472.D | 22K0075-01 | 1 | | NO MANUAL INTEGRATION |
| 1653 | 22121473.D | SEQ-PEM4 | 1 | | NO MANUAL INTEGRATION |
| 1711 | 22121474.D | SEQ-CCV5 | 1 | | NO MANUAL INTEGRATION |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20221214.b\B20221214.b

| Time | Filename | LabID | ClientId | DF | Manually Integrated Compounds |
|------|------------|------------------|----------|----|-------------------------------|
| 1729 | 22121475.D | SEQ-CCV6 | | 1 | NO MANUAL INTEGRATION |
| 1747 | 22121476.D | SEQ-CCV7 | | 1 | NO MANUAL INTEGRATION |
| 1805 | 22121477.D | SEQ-CCV8 | | 1 | NO MANUAL INTEGRATION |
| 1823 | 22121478.D | BKK0537-BLK1 | | 1 | NO MANUAL INTEGRATION |
| 1840 | 22121479.D | BKK0537-BS1 | | 1 | NO MANUAL INTEGRATION |
| 1858 | 22121480.D | BKK0537-BS2 | | 1 | NO MANUAL INTEGRATION |
| 1916 | 22121481.D | 22K0194-01 | | 1 | NO MANUAL INTEGRATION |
| 1934 | 22121482.D | 22K0194-01RE1 10 | | 1 | NO MANUAL INTEGRATION |
| 1952 | 22121483.D | SEQ-PEM5 | | 1 | NO MANUAL INTEGRATION |
| 2010 | 22121484.D | SEQ-CCV9 | | 1 | NO MANUAL INTEGRATION |
| 2027 | 22121485.D | SEQ-CCVA | | 1 | NO MANUAL INTEGRATION |
| 2045 | 22121486.D | SEQ-CCVB | | 1 | NO MANUAL INTEGRATION |
| 2103 | 22121487.D | SEQ-CCVC | | 1 | NO MANUAL INTEGRATION |

Security Status Report

Date: 17-Dec-2022 10:57

| | | | | |
|------------|-------------|---------|-------------|-------|
| 22121401.D | Data Locked | jrains, | 17-Dec-2022 | 10:57 |
| 22121402.D | Data Locked | jrains, | 17-Dec-2022 | 10:57 |
| 22121403.D | Data Locked | jrains, | 17-Dec-2022 | 10:57 |
| 22121404.D | Data Locked | jrains, | 17-Dec-2022 | 10:57 |
| 22121405.D | Data Locked | jrains, | 17-Dec-2022 | 10:57 |
| 22121406.D | Data Locked | jrains, | 17-Dec-2022 | 10:57 |
| 22121407.D | Data Locked | jrains, | 17-Dec-2022 | 10:57 |
| 22121408.D | Data Locked | jrains, | 17-Dec-2022 | 10:57 |
| 22121409.D | Data Locked | jrains, | 17-Dec-2022 | 10:57 |
| 22121410.D | Data Locked | jrains, | 17-Dec-2022 | 10:57 |
| 22121411.D | Data Locked | jrains, | 17-Dec-2022 | 10:57 |
| 22121412.D | Data Locked | jrains, | 17-Dec-2022 | 10:57 |
| 22121413.D | Data Locked | jrains, | 17-Dec-2022 | 10:57 |
| 22121414.D | Data Locked | jrains, | 17-Dec-2022 | 10:57 |
| 22121415.D | Data Locked | jrains, | 17-Dec-2022 | 10:57 |
| 22121416.D | Data Locked | jrains, | 17-Dec-2022 | 10:57 |
| 22121417.D | Data Locked | jrains, | 17-Dec-2022 | 10:57 |
| 22121418.D | Data Locked | jrains, | 17-Dec-2022 | 10:57 |
| 22121419.D | Data Locked | jrains, | 17-Dec-2022 | 10:57 |
| 22121420.D | Data Locked | jrains, | 17-Dec-2022 | 10:57 |
| 22121421.D | Data Locked | jrains, | 17-Dec-2022 | 10:57 |
| 22121422.D | Data Locked | jrains, | 17-Dec-2022 | 10:57 |
| 22121423.D | Data Locked | jrains, | 17-Dec-2022 | 10:57 |
| 22121424.D | Data Locked | jrains, | 17-Dec-2022 | 10:57 |
| 22121425.D | Data Locked | jrains, | 17-Dec-2022 | 10:57 |
| 22121426.D | Data Locked | jrains, | 17-Dec-2022 | 10:57 |
| 22121427.D | Data Locked | jrains, | 17-Dec-2022 | 10:57 |
| 22121428.D | Data Locked | jrains, | 17-Dec-2022 | 10:57 |
| 22121429.D | Data Locked | jrains, | 17-Dec-2022 | 10:57 |
| 22121430.D | Data Locked | jrains, | 17-Dec-2022 | 10:57 |
| 22121431.D | Data Locked | jrains, | 17-Dec-2022 | 10:57 |
| 22121432.D | Data Locked | jrains, | 17-Dec-2022 | 10:57 |
| 22121433.D | Data Locked | jrains, | 17-Dec-2022 | 10:57 |
| 22121434.D | Data Locked | jrains, | 17-Dec-2022 | 10:57 |

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 14-DEC-2022 20:38
 End Cal Date : 15-DEC-2022 05:16
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.14
 Integrator : HP Genie
 Method file : \\target\share\chem4\ecd6.i\20221214.b\PEST.m\PESTB.m
 Last Edit : 15-Dec-2022 08:33 jrains
 Curve Type : Average

Calibration File Names:

Level 1: \\target\share\chem4\ecd6.i\20221214.b\20221214.b\22121428.D
 Level 2: \\target\share\chem4\ecd6.i\20221214.b\20221214.b\22121429.D
 Level 3: \\target\share\chem4\ecd6.i\20221214.b\20221214.b\22121430.D
 Level 4: \\target\share\chem4\ecd6.i\20221214.b\20221214.b\22121431.D
 Level 5: \\target\share\chem4\ecd6.i\20221214.b\20221214.b\22121432.D
 Level 6: \\target\share\chem4\ecd6.i\20221214.b\20221214.b\22121433.D
 Level 7: \\target\share\chem4\ecd6.i\20221214.b\20221214.b\22121434.D

| Compound | 1.250 Level 1 | 2.500 Level 2 | 5.000 Level 3 | 10.000 Level 4 | 20.000 Level 5 | 40.000 Level 6 | RRF | % RSD |
|---------------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|---------|--------|
| 1 Hexachlorobutadiene [C] | ++++ 1.30081 | 1.97561 | 1.64885 | 1.49248 | 1.37610 | 1.34121 | 1.52251 | 16.761 |
| 5 Hexachlorobenzene [C] | ++++ 1.30422 | 1.60221 | 1.52062 | 1.49140 | 1.45025 | 1.38595 | 1.45911 | 7.170 |
| 6 alpha-BHC [C] | ++++ 1.56190 | 1.58236 | 1.58624 | 1.63316 | 1.64049 | 1.61544 | 1.60327 | 1.946 |
| 7 gamma-BHC (Lindane) [C] | ++++ 1.31891 | 1.35507 | 1.34878 | 1.38146 | 1.39277 | 1.36661 | 1.36060 | 1.921 |
| 8 beta-BHC [C] | ++++ 0.56430 | 0.65278 | 0.61729 | 0.61846 | 0.61258 | 0.59180 | 0.60954 | 4.856 |
| 9 delta-BHC [C] | ++++ 1.29291 | 1.32376 | 1.30723 | 1.33943 | 1.32843 | 1.33198 | 1.32062 | 1.312 |
| 10 Heptachlor [C] | ++++ 1.14412 | 1.27025 | 1.23424 | 1.25841 | 1.27225 | 1.21576 | 1.23250 | 3.937 |
| 11 Chlorthalonil | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ |

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 14-DEC-2022 20:38
 End Cal Date : 15-DEC-2022 05:16
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.14
 Integrator : HP Genie
 Method file : \\target\share\chem4\ecd6.i\20221214.b\PEST.m\PESTB.m
 Last Edit : 15-Dec-2022 08:33 j rains
 Curve Type : Average

| Compound | 1.250 Level 1 | 2.500 Level 2 | 5.000 Level 3 | 10.000 Level 4 | 20.000 Level 5 | 40.000 Level 6 | RRF | % RSD |
|-----------------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|---------|-------|
| 80.000 Level 7 | | | | | | | | |
| 12 Aldrin [C] | ++++ 1.28126 | 1.51140 | 1.41672 | 1.43264 | 1.43038 | 1.37092 | 1.40722 | 5.441 |
| 13 Heptachlor Epoxide a | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ |
| 14 Heptachlor epoxide b [C] | ++++ 1.04614 | 1.29770 | 1.17460 | 1.17429 | 1.17471 | 1.11443 | 1.16364 | 7.144 |
| 15 cis-Chlordane [C] | ++++ 1.03859 | 1.25850 | 1.15320 | 1.13505 | 1.13625 | 1.08979 | 1.13523 | 6.464 |
| 16 trans-Chlordane [C] | ++++ 1.07269 | 1.25449 | 1.17610 | 1.16484 | 1.16885 | 1.12553 | 1.16042 | 5.185 |
| 17 Endosulfan I [C] | ++++ 0.93258 | 1.11826 | 1.04415 | 1.03541 | 1.03470 | 0.98850 | 1.02560 | 6.032 |
| 18 4,4'-DDE [C] | ++++ 0.93563 | 1.12024 | 1.06963 | 1.06439 | 1.05541 | 0.98971 | 1.03917 | 6.320 |
| 19 Dieldrin [C] | ++++ 1.01937 | 1.27001 | 1.16284 | 1.13936 | 1.13610 | 1.07139 | 1.13318 | 7.532 |
| 20 Endrin [C] | ++++ 1.01378 | 1.25691 | 1.17909 | 1.15948 | 1.14960 | 1.06606 | 1.13749 | 7.566 |
| 21 4,4'-DDD [C] | ++++ 1.00638 | 1.23448 | 1.12156 | 1.11779 | 1.11200 | 1.04628 | 1.10642 | 7.049 |
| 22 Endosulfan II [C] | ++++ 1.04780 | 1.29682 | 1.20296 | 1.18849 | 1.16050 | 1.09906 | 1.16594 | 7.425 |

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 14-DEC-2022 20:38
 End Cal Date : 15-DEC-2022 05:16
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.14
 Integrator : HP Genie
 Method file : \\target\share\chem4\ecd6.i\20221214.b\PEST.m\PESTB.m
 Last Edit : 15-Dec-2022 08:33 j rains
 Curve Type : Average

| Compound | 1.250 Level 1 | 2.500 Level 2 | 5.000 Level 3 | 10.000 Level 4 | 20.000 Level 5 | 40.000 Level 6 | RRF | % RSD |
|---------------------------|-------------------|------------------|------------------|-------------------|-------------------|-------------------|---------|-------|
| 23 4,4'-DDT [C] | 80.000 Level 7 | ++++ 1.17591 | 1.07782 | 1.06761 | 1.07327 | 1.01936 | 1.06790 | 5.878 |
| 24 Endrin aldehyde [C] | 0.99339 | ++++ 0.94301 | 0.84303 | 0.82492 | 0.81299 | 0.77277 | 0.82246 | 8.537 |
| 25 Endosulfan sulfate [C] | 0.73803 | ++++ 1.13777 | 1.04255 | 1.03037 | 1.02302 | 0.97217 | 1.02386 | 6.702 |
| 26 Methoxychlor [C] | 0.93725 | ++++ 0.51841 | 0.48668 | 0.47517 | 0.46817 | 0.44340 | 0.47258 | 5.996 |
| 27 Endrin ketone [C] | 0.44364 | ++++ 1.23563 | 1.11999 | 1.11440 | 1.10085 | 1.04766 | 1.10585 | 6.827 |
| 29 Aroclor-1016(1) | 1.01657 | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ |
| (2) | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ |
| (3) | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ |
| (4) | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ |
| (5) | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ |
| 30 Aroclor-1221(1) | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ |

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 14-DEC-2022 20:38
 End Cal Date : 15-DEC-2022 05:16
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.14
 Integrator : HP Genie
 Method file : \\target\share\chem4\ecd6.i\20221214.b\PEST.m\PESTB.m
 Last Edit : 15-Dec-2022 08:33 j rains
 Curve Type : Average

| Compound | 1.250 Level 1 | 2.500 Level 2 | 5.000 Level 3 | 10.000 Level 4 | 20.000 Level 5 | 40.000 Level 6 | 80.000 Level 7 | RRF | % RSD |
|---------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-------|-------|
| (2) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | +++++ | +++++ |
| (3) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | +++++ | +++++ |
| (4) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | +++++ | +++++ |
| 31 Aroclor-1232 (1) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | +++++ | +++++ |
| (2) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | +++++ | +++++ |
| (3) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | +++++ | +++++ |
| (4) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | +++++ | +++++ |
| (5) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | +++++ | +++++ |
| 32 Aroclor-1242 (1) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | +++++ | +++++ |
| (2) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | +++++ | +++++ |
| (3) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | +++++ | +++++ |

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 14-DEC-2022 20:38
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 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.14
 Integrator : HP Genie
 Method file : \\target\share\chem4\ecd6.i\20221214.b\PEST.m\PESTB.m
 Last Edit : 15-Dec-2022 08:33 j rains
 Curve Type : Average

| Compound | 1.250 Level 1 | 2.500 Level 2 | 5.000 Level 3 | 10.000 Level 4 | 20.000 Level 5 | 40.000 Level 6 | 80.000 Level 7 | RRF | % RSD |
|--------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-------|-------|
| (4) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | +++++ | +++++ |
| (5) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | +++++ | +++++ |
| 33 Aroclor-1248(1) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | +++++ | +++++ |
| (2) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | +++++ | +++++ |
| (3) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | +++++ | +++++ |
| (4) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | +++++ | +++++ |
| (5) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | +++++ | +++++ |
| 34 Aroclor-1254(1) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | +++++ | +++++ |
| (2) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | +++++ | +++++ |
| (3) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | +++++ | +++++ |
| (4) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | +++++ | +++++ |

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 14-DEC-2022 20:38
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 Quant Method : ISTD
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 Integrator : HP Genie
 Method file : \\target\share\chem4\ecd6.i\20221214.b\PEST.m\PESTB.m
 Last Edit : 15-Dec-2022 08:33 j rains
 Curve Type : Average

| Compound | 1.250 Level 1 | 2.500 Level 2 | 5.000 Level 3 | 10.000 Level 4 | 20.000 Level 5 | 40.000 Level 6 | 80.000 Level 7 | RRF | % RSD |
|--------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-------|-------|
| (5) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | +++++ | +++++ |
| 35 Aroclor-1260(1) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | +++++ | +++++ |
| (2) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | +++++ | +++++ |
| (3) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | +++++ | +++++ |
| (4) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | +++++ | +++++ |
| (5) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | +++++ | +++++ |
| 36 Aroclor-1262(1) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | +++++ | +++++ |
| (2) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | +++++ | +++++ |
| (3) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | +++++ | +++++ |
| (4) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | +++++ | +++++ |
| (5) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | +++++ | +++++ |

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 14-DEC-2022 20:38
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 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.14
 Integrator : HP Genie
 Method file : \\target\share\chem4\ecd6.i\20221214.b\PEST.m\PESTB.m
 Last Edit : 15-Dec-2022 08:33 jrains
 Curve Type : Average

| Compound | 1.250 Level 1 | 2.500 Level 2 | 5.000 Level 3 | 10.000 Level 4 | 20.000 Level 5 | 40.000 Level 6 | RRF | % RSD |
|----------------------|--------------------|------------------|------------------|-------------------|-------------------|-------------------|---------|--------|
| 37 Aroclor-1268 (1) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| (2) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| (3) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| (4) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| (5) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 38 Toxaphene [C] (1) | 0.01492 0.01387 | 0.01529 | 0.01573 | 0.01558 | 0.01527 | 0.01455 | 0.01503 | 4.285 |
| (2) | 0.03524 0.03010 | 0.03538 | 0.03581 | 0.03480 | 0.03351 | 0.03170 | 0.03379 | 6.368 |
| (3) | 0.02615 0.02387 | 0.02659 | 0.02671 | 0.02640 | 0.02571 | 0.02464 | 0.02572 | 4.197 |
| (4) | 0.08868 0.07782 | 0.08690 | 0.08740 | 0.08502 | 0.08225 | 0.07926 | 0.08390 | 5.022 |
| (5) | 0.04138 0.04062 | 0.04124 | 0.04193 | 0.04145 | 0.04102 | 0.04046 | 0.04116 | 1.227 |
| 39 2,4-DDE [C] | +++++ 0.60202 | 0.83433 | 0.80524 | 0.74313 | 0.72589 | 0.66671 | 0.72955 | 11.810 |

ARI Labs, Inc.

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 Last Edit : 15-Dec-2022 08:33 jrains
 Curve Type : Average

| Compound | 1.250 Level 1 | 2.500 Level 2 | 5.000 Level 3 | 10.000 Level 4 | 20.000 Level 5 | 40.000 Level 6 | RRF | % RSD |
|---------------------------------|--------------------|------------------|------------------|-------------------|-------------------|-------------------|---------|-------|
| 40 2,4-DDD [C] | ++++ 0.71370 | 0.90975 | 0.87971 | 0.82738 | 0.81642 | 0.76623 | 0.81887 | 8.785 |
| 41 2,4-DDT [C] | ++++ 0.74249 | 0.94001 | 0.88046 | 0.85026 | 0.84852 | 0.79773 | 0.84324 | 8.052 |
| 42 Hexachloroethane [C] | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ |
| 43 Oxychlordan [C] | ++++ 0.79092 | 0.96447 | 0.94678 | 0.90333 | 0.89663 | 0.84333 | 0.89091 | 7.271 |
| 44 trans-Nonachlor [C] | ++++ 1.30668 | 1.48885 | 1.51762 | 1.45179 | 1.44766 | 1.37681 | 1.43157 | 5.406 |
| 45 cis-Nonachlor [C] | ++++ 1.24817 | 1.44924 | 1.40707 | 1.37647 | 1.37212 | 1.31329 | 1.36106 | 5.224 |
| 46 Mirex [C] | ++++ 0.70751 | 0.93314 | 0.81155 | 0.79462 | 0.76268 | 0.73998 | 0.79158 | 9.949 |
| 47 bis-(2-ethylhexyl) Phthalate | ++++ ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ |
| 48 Chlordane (NOS) [C] (1) | 0.03877 0.03764 | 0.03690 | 0.03764 | 0.03840 | 0.03761 | 0.03805 | 0.03786 | 1.615 |
| (2) | 0.04647 0.03825 | 0.04439 | 0.04416 | 0.04357 | 0.04103 | 0.03978 | 0.04252 | 6.844 |
| (3) | 0.14135 0.13812 | 0.14252 | 0.14927 | 0.15059 | 0.14418 | 0.14081 | 0.14383 | 3.173 |

ARI Labs, Inc.

INITIAL CALIBRATION DATA

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 Method file : \\target\share\chem4\ecd6.i\20221214.b\PEST.m\PESTB.m
 Last Edit : 15-Dec-2022 08:33 j rains
 Curve Type : Average

| Compound | 1.250 Level 1 | 2.500 Level 2 | 5.000 Level 3 | 10.000 Level 4 | 20.000 Level 5 | 40.000 Level 6 | RRF | % RSD |
|-------------------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|---------|--------|
| 49 Trifluralin | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 50 Dacthal | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 51 Oxadiazon | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 52 Kelthane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 53 Chlorpyrifos | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 54 Methyl Parathion | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 55 Ethyl Parathion | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 56 Kepone [C] | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 57 1-Chloropyrene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| \$ 4 Tetrachloro-m-xylene [C] | +++++ | 1.22086 | 1.17937 | 1.16483 | 1.12798 | 1.06878 | 1.12611 | 7.306 |
| \$ 28 Decachlorobiphenyl [C] | +++++ | 1.08714 | 0.93916 | 0.85624 | 0.84996 | 0.80139 | 0.88418 | 12.973 |

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 03-AUG-2022 11:03
 End Cal Date : 13-DEC-2022 22:43
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.14
 Integrator : HP Genie
 Method file : \\target\share\chem4\ecd6.i\20221214.b\PEST.m
 Last Edit : 14-Dec-2022 10:32
 Curve Type : Average

Calibration File Names:

Level 1: \\target\share\chem4\ecd6.i\20220809.b\22080909.D
 Level 2: \\target\share\chem4\ecd6.i\20220809.b\22080910.D
 Level 3: \\target\share\chem4\ecd6.i\20220809.b\22080911.D
 Level 4: \\target\share\chem4\ecd6.i\20220809.b\22080912.D
 Level 5: \\target\share\chem4\ecd6.i\20220809.b\22080913.D
 Level 6: \\target\share\chem4\ecd6.i\20220809.b\22080914.D
 Level 7: \\target\share\chem4\ecd6.i\20220809.b\22080915.D

| Compound | 1.250 Level 1 | 2.500 Level 2 | 5.000 Level 3 | 10.000 Level 4 | 20.000 Level 5 | 40.000 Level 6 | RRF | % RSD |
|-----------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|---------|-------|
| 1 Hexachlorobutadiene | +++++ 1.30292 | 1.64215 | 1.55667 | 1.51049 | 1.47308 | 1.40536 | 1.48178 | 7.988 |
| 5 Hexachlorobenzene | +++++ 1.15582 | 1.48647 | 1.40778 | 1.36481 | 1.31957 | 1.25458 | 1.33150 | 8.750 |
| 6 alpha-BHC | +++++ 1.29587 | 1.41183 | 1.40802 | 1.42270 | 1.42790 | 1.37811 | 1.39074 | 3.567 |
| 7 gamma-BHC (Lindane) | +++++ 1.11861 | 1.20108 | 1.18733 | 1.20704 | 1.21598 | 1.18532 | 1.18589 | 2.948 |
| 8 beta-BHC | +++++ 0.50588 | 0.65244 | 0.60612 | 0.58927 | 0.57533 | 0.54649 | 0.57925 | 8.684 |
| 9 delta-BHC | +++++ 1.16159 | 1.15252 | 1.13315 | 1.18185 | 1.21952 | 1.21492 | 1.17726 | 2.950 |
| 10 Heptachlor | +++++ 0.94214 | 1.18674 | 1.12881 | 1.11527 | 1.09009 | 1.03076 | 1.08230 | 7.897 |
| 11 Aldrin | +++++ 0.96536 | 1.14505 | 1.10493 | 1.10576 | 1.09698 | 1.04621 | 1.07738 | 5.877 |

ARI Labs, Inc.

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 Method file : \\target\share\chem4\ecd6.i\20221214.b\PEST.m
 Last Edit : 14-Dec-2022 10:32
 Curve Type : Average

| Compound | 1.250 Level 1 | 2.500 Level 2 | 5.000 Level 3 | 10.000 Level 4 | 20.000 Level 5 | 40.000 Level 6 | RRF | % RSD |
|-------------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|---------|--------|
| 80.000 Level 7 | | | | | | | | |
| 12 Chlorthalonil | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ |
| 13 Heptachlor Epoxide a | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ |
| 14 Heptachlor epoxide b | ++++ | 1.05278 | 0.99602 | 0.98316 | 0.95413 | 0.89408 | 0.94959 | 8.751 |
| 15 cis-Chlordane | ++++ | 1.00217 | 0.95563 | 0.94931 | 0.93343 | 0.89233 | 0.92705 | 6.424 |
| 16 trans-Chlordane | ++++ | 1.02223 | 0.96054 | 0.95840 | 0.94631 | 0.90606 | 0.93937 | 6.420 |
| 17 Endosulfan I | ++++ | 1.10444 | 1.01004 | 0.97510 | 0.92642 | 0.86761 | 0.94287 | 12.207 |
| 18 4,4'-DDE | ++++ | 0.85783 | 0.84618 | 0.86175 | 0.85068 | 0.80349 | 0.82557 | 6.027 |
| 19 Dieldrin | ++++ | 1.02112 | 0.97469 | 0.96064 | 0.93395 | 0.87876 | 0.92773 | 8.553 |
| 20 Endrin | ++++ | 1.03359 | 0.99258 | 1.01493 | 1.03951 | 0.95184 | 0.99228 | 4.755 |
| 21 4,4'-DDD | ++++ | 1.26749 | 1.21690 | 1.21140 | 1.19455 | 1.09258 | 1.16763 | 7.815 |
| 22 Endosulfan II | ++++ | 1.32213 | 1.30831 | 1.28817 | 1.25191 | 1.14300 | 1.22841 | 8.614 |

ARI Labs, Inc.

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 Last Edit : 14-Dec-2022 10:32
 Curve Type : Average

| Compound | 1.250 Level 1 | 2.500 Level 2 | 5.000 Level 3 | 10.000 Level 4 | 20.000 Level 5 | 40.000 Level 6 | RRF | % RSD |
|-----------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|---------|-------|
| 23 4,4'-DDT | ++++ 1.06544 | 1.20278 | 1.19912 | 1.21231 | 1.21971 | 1.13284 | 1.17203 | 5.186 |
| 24 Endrin aldehyde | ++++ 0.84575 | 1.05042 | 1.01673 | 1.00197 | 0.99460 | 0.91340 | 0.97048 | 7.836 |
| 25 Methoxychlor | ++++ 0.43428 | 0.56408 | 0.54010 | 0.51985 | 0.50693 | 0.45626 | 0.50358 | 9.854 |
| 26 Endosulfan sulfate | ++++ 0.94888 | 1.14290 | 1.11216 | 1.09802 | 1.09968 | 1.00734 | 1.06816 | 6.922 |
| 27 Endrin ketone | ++++ 1.12695 | 1.47959 | 1.40243 | 1.34455 | 1.31335 | 1.19489 | 1.31029 | 9.966 |
| 29 Aroclor-1016(1) | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ |
| (2) | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ |
| (3) | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ |
| (4) | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ |
| (5) | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ |
| 30 Aroclor-1221(1) | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ |

ARI Labs, Inc.

INITIAL CALIBRATION DATA

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 Integrator : HP Genie
 Method file : \\target\share\chem4\ecd6.i\20221214.b\PEST.m
 Last Edit : 14-Dec-2022 10:32
 Curve Type : Average

| Compound | 1.250 Level 1 | 2.500 Level 2 | 5.000 Level 3 | 10.000 Level 4 | 20.000 Level 5 | 40.000 Level 6 | 80.000 Level 7 | RRF | % RSD |
|---------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-------|-------|
| (2) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | +++++ | +++++ |
| (3) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | +++++ | +++++ |
| (4) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | +++++ | +++++ |
| 31 Aroclor-1232 (1) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | +++++ | +++++ |
| (2) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | +++++ | +++++ |
| (3) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | +++++ | +++++ |
| (4) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | +++++ | +++++ |
| (5) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | +++++ | +++++ |
| 32 Aroclor-1242 (1) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | +++++ | +++++ |
| (2) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | +++++ | +++++ |
| (3) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | +++++ | +++++ |

ARI Labs, Inc.

INITIAL CALIBRATION DATA

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 Integrator : HP Genie
 Method file : \\target\share\chem4\ecd6.i\20221214.b\PEST.m
 Last Edit : 14-Dec-2022 10:32
 Curve Type : Average

| Compound | 1.250 Level 1 | 2.500 Level 2 | 5.000 Level 3 | 10.000 Level 4 | 20.000 Level 5 | 40.000 Level 6 | 80.000 Level 7 | RRF | % RSD |
|--------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-------|-------|
| (4) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | +++++ | +++++ |
| (5) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | +++++ | +++++ |
| (6) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | +++++ | +++++ |
| 33 Aroclor-1248(1) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | +++++ | +++++ |
| (2) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | +++++ | +++++ |
| (3) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | +++++ | +++++ |
| (4) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | +++++ | +++++ |
| (5) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | +++++ | +++++ |
| 34 Aroclor-1254(1) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | +++++ | +++++ |
| (2) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | +++++ | +++++ |
| (3) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | +++++ | +++++ |

ARI Labs, Inc.

INITIAL CALIBRATION DATA

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 Integrator : HP Genie
 Method file : \\target\share\chem4\ecd6.i\20221214.b\PEST.m
 Last Edit : 14-Dec-2022 10:32
 Curve Type : Average

| Compound | 1.250 Level 1 | 2.500 Level 2 | 5.000 Level 3 | 10.000 Level 4 | 20.000 Level 5 | 40.000 Level 6 | 80.000 Level 7 | RRF | % RSD |
|--------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-------|-------|
| (4) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | +++++ | +++++ |
| (5) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | +++++ | +++++ |
| 35 Aroclor-1260(1) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | +++++ | +++++ |
| (2) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | +++++ | +++++ |
| (3) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | +++++ | +++++ |
| (4) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | +++++ | +++++ |
| (5) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | +++++ | +++++ |
| 36 Aroclor-1262(1) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | +++++ | +++++ |
| (2) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | +++++ | +++++ |
| (3) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | +++++ | +++++ |
| (4) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | +++++ | +++++ |

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 03-AUG-2022 11:03
 End Cal Date : 13-DEC-2022 22:43
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.14
 Integrator : HP Genie
 Method file : \\target\share\chem4\ecd6.i\20221214.b\PEST.m
 Last Edit : 14-Dec-2022 10:32
 Curve Type : Average

| Compound | 1.250 Level 1 | 2.500 Level 2 | 5.000 Level 3 | 10.000 Level 4 | 20.000 Level 5 | 40.000 Level 6 | 80.000 Level 7 | RRF | % RSD |
|--------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|---------|--------|
| (5) | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | ++++ | ++++ |
| 37 Aroclor-1268(1) | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | ++++ | ++++ |
| (2) | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | ++++ | ++++ |
| (3) | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | ++++ | ++++ |
| (4) | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | ++++ | ++++ |
| (5) | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | | ++++ | ++++ |
| 38 Toxaphene(1) | 0.02824 | 0.03896 | 0.03693 | 0.03480 | 0.03418 | 0.02891 | | 0.03285 | 13.645 |
| (2) | 0.08343 | 0.10636 | 0.10204 | 0.09499 | 0.09608 | 0.08394 | | 0.09278 | 10.362 |
| (3) | 0.04776 | 0.06283 | 0.06069 | 0.06020 | 0.06090 | 0.05141 | | 0.05643 | 10.755 |
| (4) | 0.05098 | 0.07225 | 0.07089 | 0.06844 | 0.06847 | 0.06296 | | 0.06541 | 11.021 |
| (5) | 0.04955 | 0.06896 | 0.06748 | 0.06372 | 0.06603 | 0.05846 | | 0.06194 | 10.880 |

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 03-AUG-2022 11:03
 End Cal Date : 13-DEC-2022 22:43
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.14
 Integrator : HP Genie
 Method file : \\target\share\chem4\ecd6.i\20221214.b\PEST.m
 Last Edit : 14-Dec-2022 10:32
 Curve Type : Average

| Compound | 1.250 Level 1 | 2.500 Level 2 | 5.000 Level 3 | 10.000 Level 4 | 20.000 Level 5 | 40.000 Level 6 | RRF | % RSD |
|---------------------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|---------|--------|
| 39 2,4-DDE | 0.89319 | 1.14103 | 1.08072 | 1.09005 | 1.06169 | 0.88466 | 1.02522 | 10.614 |
| 40 2,4-DDD | 0.85318 | 1.08881 | 1.01841 | 0.99599 | 0.98400 | 0.85150 | 0.96531 | 9.816 |
| 41 2,4-DDT | 0.88215 | 0.97799 | 0.97179 | 0.97332 | 0.98841 | 0.88743 | 0.94685 | 5.117 |
| 42 Hexachloroethane | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ |
| 43 Oxychlordane | 1.05015 | 1.32927 | 1.24890 | 1.22496 | 1.20236 | 1.04785 | 1.18392 | 9.540 |
| 44 trans-Nonachlor | 1.36253 | 1.68629 | 1.57989 | 1.58456 | 1.55669 | 1.34437 | 1.51906 | 8.949 |
| 45 cis-Nonachlor | 1.35527 | 1.62941 | 1.55213 | 1.53413 | 1.52347 | 1.34758 | 1.49033 | 7.639 |
| 46 Mirex | 0.85786 | 1.20478 | 1.11168 | 1.05006 | 1.00932 | 0.85381 | 1.01459 | 13.749 |
| 47 bis-(2-ethylhexyl) Phthalate | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ | ++++ |
| 48 Chlordane (NOS) (1) | 0.04531 | 0.06029 | 0.05735 | 0.05369 | 0.05005 | 0.04581 | 0.04808 | 11.230 |
| (2) | 0.12030 | 0.15038 | 0.14213 | 0.13501 | 0.13074 | 0.12020 | 0.12674 | 8.482 |

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 03-AUG-2022 11:03
 End Cal Date : 13-DEC-2022 22:43
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.14
 Integrator : HP Genie
 Method file : \\target\share\chem4\ecd6.i\20221214.b\PEST.m
 Last Edit : 14-Dec-2022 10:32
 Curve Type : Average

| Compound | 1.250 Level 1 | 2.500 Level 2 | 5.000 Level 3 | 10.000 Level 4 | 20.000 Level 5 | 40.000 Level 6 | RRF | % RSD |
|------------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|---------|--------|
| (3) | 0.17221 | 0.15459 | 0.13623 | 0.13893 | 0.12753 | 0.13518 | 0.14232 | 11.024 |
| 49 Trifluralin | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 50 Dacthal | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 51 Oxadiazon | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 52 Kelthane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 53 Chlorpyrifos | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 54 Methyl Parathion | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 55 Ethyl Parathion | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 56 Kepone | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 57 1-Chloropyrene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 4 Tetrachloro-m-xylene | 0.85040 | 1.10401 | 1.05839 | 1.02629 | 0.99588 | 0.93352 | 0.99475 | 9.166 |

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 03-AUG-2022 11:03
 End Cal Date : 13-DEC-2022 22:43
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.14
 Integrator : HP Genie
 Method file : \\target\share\chem4\ecd6.i\20221214.b\PEST.m
 Last Edit : 14-Dec-2022 10:32
 Curve Type : Average

| Compound | 1.250 | 2.500 | 5.000 | 10.000 | 20.000 | 40.000 | RRF | % RSD |
|--------------------------|---------|---------|---------|---------|---------|---------|---------|--------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | |
| | 80.000 | | | | | | | |
| | Level 7 | | | | | | | |
| \$ 28 Decachlorobiphenyl | +++++ | 0.99444 | 0.96249 | 0.90111 | 0.87014 | 0.79161 | 0.87939 | 10.607 |
| | 0.75653 | | | | | | | |

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20221214.b\PEST.m
Batch File: \\target\share\chem4\ecd6.i\20221214.b
Inst ID: ecd6.i

Table with 7 columns: ID, RT01, RT02, RT03, RT04, RT05, RT06, RT07. Rows include FILENAME, INJ. DATE, and INJ. TIME for each RT column.

Main data table with columns: Compound, RT01, RT02, RT03, RT04, RT05, RT06, RT07, EXPEC RT, RT WINDOW, AVG RT, STD DEV. Lists 17 compounds with their respective retention times and standard deviations.

Reviewer 1 _____ Date: _____
Reviewer 2 _____ Date: _____

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20221214.b\PEST.m
Batch File: \\target\share\chem4\ecd6.i\20221214.b
Inst ID: ecd6.i

| Compound | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | RT07 | EXPEC RT | RT WINDOW | AVG RT | STD DEV |
|-----------------------|-------|-------|-------|-------|-------|-------|-------|----------|---------------|--------|---------|
| 18 4,4'-DDE | 6.489 | 6.489 | 6.490 | 6.490 | 6.489 | 6.489 | 6.490 | 6.489 | 6.459-6.519 | 6.489 | 0.000 |
| 19 Dieldrin | 6.831 | 6.832 | 6.832 | 6.832 | 6.831 | 6.832 | 6.832 | 6.831 | 6.801-6.861 | 6.832 | 0.000 |
| 20 Endrin | 7.081 | 7.081 | 7.082 | 7.082 | 7.081 | 7.082 | 7.082 | 7.081 | 7.051-7.111 | 7.082 | 0.000 |
| 21 4,4'-DDD | 7.135 | 7.136 | 7.136 | 7.136 | 7.135 | 7.136 | 7.135 | 7.135 | 7.105-7.165 | 7.136 | 0.000 |
| 22 Endosulfan II | 7.318 | 7.317 | 7.318 | 7.318 | 7.317 | 7.317 | 7.317 | 7.317 | 7.287-7.347 | 7.317 | 0.000 |
| 23 4,4'-DDT | 7.427 | 7.427 | 7.428 | 7.428 | 7.427 | 7.427 | 7.428 | 7.427 | 7.397-7.457 | 7.428 | 0.000 |
| 24 Endrin aldehyde | 7.746 | 7.746 | 7.746 | 7.746 | 7.746 | 7.746 | 7.746 | 7.746 | 7.716-7.776 | 7.746 | 0.000 |
| 25 Methoxychlor | 7.912 | 7.912 | 7.913 | 7.912 | 7.912 | 7.912 | 7.912 | 7.912 | 7.882-7.942 | 7.912 | 0.000 |
| 26 Endosulfan sulfate | 8.180 | 8.179 | 8.180 | 8.180 | 8.180 | 8.179 | 8.180 | 8.180 | 8.150-8.210 | 8.180 | 0.000 |
| 27 Endrin ketone | 8.453 | 8.452 | 8.454 | 8.453 | 8.453 | 8.453 | 8.454 | 8.453 | 8.423-8.483 | 8.453 | 0.001 |
| 28 Decachlorobiphenyl | 9.355 | 9.354 | 9.355 | 9.355 | 9.355 | 9.355 | 9.356 | 9.355 | 9.325-9.385 | 9.355 | 0.000 |
| 29 Aroclor-1016 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 3.765 | 3.735-3.795 | +++++ | +++++ |
| 30 Aroclor-1221 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 4.881 | 4.851-4.911 | +++++ | +++++ |
| 31 Aroclor-1232 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 5.359 | 5.329-5.389 | +++++ | +++++ |
| 32 Aroclor-1242 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 3.765 | 3.735-3.795 | +++++ | +++++ |
| 33 Aroclor-1248 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 4.418 | 4.388-4.448 | +++++ | +++++ |
| 34 Aroclor-1254 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 5.257 | 5.227-5.287 | +++++ | +++++ |
| 35 Aroclor-1260 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.045 | 6.015-6.075 | +++++ | +++++ |
| 36 Aroclor-1262 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 8.301 | 8.271-8.331 | +++++ | +++++ |
| 37 Aroclor-1268 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 11.259 | 11.229-11.289 | +++++ | +++++ |
| 38 Toxaphene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.931 | 6.901-6.961 | +++++ | +++++ |
| 39 2,4-DDE | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.106 | 6.076-6.136 | +++++ | +++++ |

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20221214.b\PEST.m
Batch File: \\target\share\chem4\ecd6.i\20221214.b
Inst ID: ecd6.i

| Compound | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | RT07 | EXPEC RT | RT WINDOW | AVG RT | STD DEV |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|----------|---------------|--------|---------|
| 40 2,4-DDD | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.681 | 6.651-6.711 | +++++ | +++++ |
| 41 2,4-DDT | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.957 | 6.927-6.987 | +++++ | +++++ |
| 42 Hexachloroethane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 1.774 | 1.744-1.804 | +++++ | +++++ |
| 43 Oxychlorane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.014 | 5.984-6.044 | +++++ | +++++ |
| 44 trans-Nonachlor | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.397 | 6.367-6.427 | +++++ | +++++ |
| 45 cis-Nonachlor | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.112 | 7.082-7.142 | +++++ | +++++ |
| 46 Mirex | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 8.082 | 8.052-8.112 | +++++ | +++++ |
| 47 bis-(2-ethylhexyl) Pht | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 20.156 | 20.126-20.186 | +++++ | +++++ |
| 48 Chlordane (NOS) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 5.593 | 5.563-5.623 | +++++ | +++++ |
| 49 Trifluralin | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.319 | 6.289-6.349 | +++++ | +++++ |
| 50 Dacthal | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 9.936 | 9.906-9.966 | +++++ | +++++ |
| 51 Oxadiazon | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 11.891 | 11.861-11.921 | +++++ | +++++ |
| 52 Kelthane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 14.827 | 14.797-14.857 | +++++ | +++++ |
| 53 Chlorpyrifos | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 9.750 | 9.720-9.780 | +++++ | +++++ |
| 54 Methyl Parathion | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 9.107 | 9.077-9.137 | +++++ | +++++ |
| 55 Ethyl Parathion | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 10.251 | 10.221-10.281 | +++++ | +++++ |
| 56 Kepone | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.588 | 6.558-6.618 | +++++ | +++++ |
| 57 1-Chloropyrene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.953 | 6.923-6.983 | +++++ | +++++ |

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20221214.b\PEST.m\PESTB.m
Batch File: \\target\share\chem4\ecd6.i\20221214.b\B20221214.b
Inst ID: ecd6.i

ID: RT01 RT02 RT03 RT04 RT05 RT06 RT07
FILENAME: 22121405 22121406 22121407 22121408 22121409 22121410 22121411
INJ. DATE: 14-DEC-2022 14-DEC-2022 14-DEC-2022 14-DEC-2022 14-DEC-2022 14-DEC-2022 14-DEC-2022
INJ. TIME: 20:38 20:56 21:14 21:31 21:49 22:07 22:25

Table with 12 columns: Compound, RT01, RT02, RT03, RT04, RT05, RT06, RT07, EXPEC RT, RT WINDOW, AVG RT, STD DEV. Rows include compounds like Hexachlorobutadiene, Bromobenzene, Hexabromobiphenyl, Tetrachloro-m-xylene, Hexachlorobenzene, alpha-BHC, gamma-BHC (Lindane), beta-BHC, delta-BHC, Heptachlor, Chlorthalonil, Aldrin, Heptachlor Epoxide a, Heptachlor epoxide b, cis-Chlordane, trans-Chlordane, and Endosulfan I.

Reviewer 1 _____ Date: _____
Reviewer 2 _____ Date: _____

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20221214.b\PEST.m\PESTB.m
Batch File: \\target\share\chem4\ecd6.i\20221214.b\B20221214.b
Inst ID: ecd6.i

| Compound | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | RT07 | EXPEC RT | RT WINDOW | AVG RT | STD DEV |
|---------------------------|--------|--------|--------|--------|--------|--------|--------|----------|---------------|--------|---------|
| 18 4,4'-DDE [C] | 7.370 | 7.370 | 7.371 | 7.371 | 7.370 | 7.371 | 7.371 | 7.371 | 7.341-7.401 | 7.371 | 0.000 |
| 19 Dieldrin [C] | 7.582 | 7.582 | 7.583 | 7.583 | 7.582 | 7.582 | 7.583 | 7.583 | 7.553-7.613 | 7.582 | 0.000 |
| 20 Endrin [C] | 7.906 | 7.906 | 7.906 | 7.907 | 7.907 | 7.907 | 7.907 | 7.907 | 7.877-7.937 | 7.907 | 0.000 |
| 21 4,4'-DDD [C] | 7.976 | 7.976 | 7.976 | 7.977 | 7.976 | 7.976 | 7.976 | 7.976 | 7.946-8.006 | 7.976 | 0.000 |
| 22 Endosulfan II [C] | 8.117 | 8.116 | 8.117 | 8.117 | 8.117 | 8.117 | 8.117 | 8.117 | 8.087-8.147 | 8.117 | 0.000 |
| 23 4,4'-DDT [C] | 8.294 | 8.294 | 8.294 | 8.295 | 8.295 | 8.295 | 8.295 | 8.295 | 8.265-8.325 | 8.295 | 0.000 |
| 24 Endrin aldehyde [C] | 8.448 | 8.447 | 8.448 | 8.448 | 8.448 | 8.448 | 8.448 | 8.448 | 8.418-8.478 | 8.448 | 0.000 |
| 25 Endosulfan sulfate [C] | 8.715 | 8.714 | 8.715 | 8.715 | 8.715 | 8.715 | 8.715 | 8.715 | 8.685-8.745 | 8.715 | 0.000 |
| 26 Methoxychlor [C] | 8.935 | 8.934 | 8.935 | 8.936 | 8.935 | 8.935 | 8.936 | 8.936 | 8.906-8.966 | 8.935 | 0.001 |
| 27 Endrin ketone [C] | 9.239 | 9.239 | 9.239 | 9.240 | 9.239 | 9.239 | 9.240 | 9.240 | 9.210-9.270 | 9.239 | 0.000 |
| 28 Decachlorobiphenyl [C] | 10.466 | 10.465 | 10.466 | 10.466 | 10.466 | 10.466 | 10.467 | 10.467 | 10.437-10.497 | 10.466 | 0.001 |
| 29 Aroclor-1016 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 4.180 | 4.150-4.210 | +++++ | +++++ |
| 30 Aroclor-1221 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 5.051 | 5.021-5.081 | +++++ | +++++ |
| 31 Aroclor-1232 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 5.171 | 5.141-5.201 | +++++ | +++++ |
| 32 Aroclor-1242 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 4.970 | 4.940-5.000 | +++++ | +++++ |
| 33 Aroclor-1248 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 5.285 | 5.255-5.315 | +++++ | +++++ |
| 34 Aroclor-1254 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 5.968 | 5.938-5.998 | +++++ | +++++ |
| 35 Aroclor-1260 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.767 | 6.737-6.797 | +++++ | +++++ |
| 36 Aroclor-1262 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 9.714 | 9.684-9.744 | +++++ | +++++ |
| 37 Aroclor-1268 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 11.791 | 11.761-11.821 | +++++ | +++++ |
| 38 Toxaphene [C] | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.126 | 7.096-7.156 | +++++ | +++++ |
| 39 2,4-DDE [C] | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.036 | 7.006-7.066 | +++++ | +++++ |

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20221214.b\PEST.m\PESTB.m
Batch File: \\target\share\chem4\ecd6.i\20221214.b\B20221214.b
Inst ID: ecd6.i

| Compound | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | RT07 | EXPEC RT | RT WINDOW | AVG RT | STD DEV |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|----------|---------------|--------|---------|
| 40 2,4-DDD [C] | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.591 | 7.561-7.621 | +++++ | +++++ |
| 41 2,4-DDT [C] | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.913 | 7.883-7.943 | +++++ | +++++ |
| 42 Hexachloroethane [C] | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 1.676 | 1.646-1.706 | +++++ | +++++ |
| 43 Oxychlorane [C] | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.741 | 6.711-6.771 | +++++ | +++++ |
| 44 trans-Nonachlor [C] | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.155 | 7.125-7.185 | +++++ | +++++ |
| 45 cis-Nonachlor [C] | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.975 | 7.945-8.005 | +++++ | +++++ |
| 46 Mirex [C] | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 9.223 | 9.193-9.253 | +++++ | +++++ |
| 47 bis-(2-ethylhexyl) Pht | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 21.499 | 21.469-21.529 | +++++ | +++++ |
| 48 Chlordane (NOS) [C] | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 5.612 | 5.582-5.642 | +++++ | +++++ |
| 49 Trifluralin | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 4.871 | 4.841-4.901 | +++++ | +++++ |
| 50 Dacthal | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.640 | 6.610-6.670 | +++++ | +++++ |
| 51 Oxadiazon | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 8.115 | 8.085-8.145 | +++++ | +++++ |
| 52 Kelthane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 11.286 | 11.256-11.316 | +++++ | +++++ |
| 53 Chlorpyrifos | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.527 | 6.497-6.557 | +++++ | +++++ |
| 54 Methyl Parathion | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.342 | 6.312-6.372 | +++++ | +++++ |
| 55 Ethyl Parathion | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.841 | 6.811-6.871 | +++++ | +++++ |
| 56 Kepone [C] | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.336 | 7.306-7.366 | +++++ | +++++ |
| 57 1-Chloropyrene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.745 | 7.715-7.775 | +++++ | +++++ |

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20221214.b\PEST.m
Batch File: \\target\share\chem4\ecd6.i\20221214.b
Inst ID: ecd6.i

Table with 7 columns: ID, RT01, RT02, RT03, RT04, RT05, RT06, RT07. Rows include FILENAME, INJ. DATE, and INJ. TIME for various samples.

Main data table with columns: Compound, RT01, RT02, RT03, RT04, RT05, RT06, RT07, EXPECT RT, RT WINDOW, AVG RT, STD DEV. Lists 17 compounds with their retention times and standard deviations.

Reviewer 1 _____ Date: _____
Reviewer 2 _____ Date: _____

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20221214.b\PEST.m
Batch File: \\target\share\chem4\ecd6.i\20221214.b
Inst ID: ecd6.i

| Compound | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | RT07 | EXPEC RT | RT WINDOW | AVG RT | STD DEV |
|-----------------------|-------|-------|-------|-------|-------|-------|-------|----------|---------------|--------|---------|
| 18 4,4'-DDE | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.489 | 6.459-6.519 | +++++ | +++++ |
| 19 Dieldrin | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.831 | 6.801-6.861 | +++++ | +++++ |
| 20 Endrin | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.081 | 7.051-7.111 | +++++ | +++++ |
| 21 4,4'-DDD | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.135 | 7.105-7.165 | +++++ | +++++ |
| 22 Endosulfan II | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.317 | 7.287-7.347 | +++++ | +++++ |
| 23 4,4'-DDT | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.427 | 7.397-7.457 | +++++ | +++++ |
| 24 Endrin aldehyde | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.746 | 7.716-7.776 | +++++ | +++++ |
| 25 Methoxychlor | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.912 | 7.882-7.942 | +++++ | +++++ |
| 26 Endosulfan sulfate | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 8.180 | 8.150-8.210 | +++++ | +++++ |
| 27 Endrin ketone | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 8.453 | 8.423-8.483 | +++++ | +++++ |
| 28 Decachlorobiphenyl | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 9.355 | 9.325-9.385 | +++++ | +++++ |
| 29 Aroclor-1016 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 3.765 | 3.735-3.795 | +++++ | +++++ |
| 30 Aroclor-1221 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 4.881 | 4.851-4.911 | +++++ | +++++ |
| 31 Aroclor-1232 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 5.359 | 5.329-5.389 | +++++ | +++++ |
| 32 Aroclor-1242 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 3.765 | 3.735-3.795 | +++++ | +++++ |
| 33 Aroclor-1248 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 4.418 | 4.388-4.448 | +++++ | +++++ |
| 34 Aroclor-1254 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 5.257 | 5.227-5.287 | +++++ | +++++ |
| 35 Aroclor-1260 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.045 | 6.015-6.075 | +++++ | +++++ |
| 36 Aroclor-1262 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 8.301 | 8.271-8.331 | +++++ | +++++ |
| 37 Aroclor-1268 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 11.259 | 11.229-11.289 | +++++ | +++++ |
| 38 Toxaphene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.931 | 6.901-6.961 | +++++ | +++++ |
| 39 2,4-DDE | 6.106 | 6.106 | 6.106 | 6.106 | 6.106 | 6.106 | 6.106 | 6.106 | 6.076-6.136 | 6.106 | 0.000 |

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20221214.b\PEST.m
Batch File: \\target\share\chem4\ecd6.i\20221214.b
Inst ID: ecd6.i

| Compound | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | RT07 | EXPEC RT | RT WINDOW | AVG RT | STD DEV |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|----------|---------------|--------|---------|
| 40 2,4-DDD | 6.681 | 6.681 | 6.681 | 6.681 | 6.681 | 6.681 | 6.680 | 6.681 | 6.651-6.711 | 6.681 | 0.000 |
| 41 2,4-DDT | 6.956 | 6.957 | 6.956 | 6.956 | 6.957 | 6.956 | 6.956 | 6.957 | 6.927-6.987 | 6.956 | 0.000 |
| 42 Hexachloroethane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 1.774 | 1.744-1.804 | +++++ | +++++ |
| 43 Oxychlorane | 6.014 | 6.015 | 6.014 | 6.015 | 6.014 | 6.014 | 6.014 | 6.014 | 5.984-6.044 | 6.015 | 0.000 |
| 44 trans-Nonachlor | 6.397 | 6.398 | 6.398 | 6.398 | 6.397 | 6.397 | 6.397 | 6.397 | 6.367-6.427 | 6.398 | 0.000 |
| 45 cis-Nonachlor | 7.112 | 7.112 | 7.111 | 7.112 | 7.112 | 7.112 | 7.112 | 7.112 | 7.082-7.142 | 7.112 | 0.000 |
| 46 Mirex | 8.082 | 8.082 | 8.082 | 8.082 | 8.082 | 8.082 | 8.082 | 8.082 | 8.052-8.112 | 8.082 | 0.000 |
| 47 bis-(2-ethylhexyl) Pht | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 20.156 | 20.126-20.186 | +++++ | +++++ |
| 48 Chlordane (NOS) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 5.593 | 5.563-5.623 | +++++ | +++++ |
| 49 Trifluralin | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.319 | 6.289-6.349 | +++++ | +++++ |
| 50 Dacthal | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 9.936 | 9.906-9.966 | +++++ | +++++ |
| 51 Oxadiazon | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 11.891 | 11.861-11.921 | +++++ | +++++ |
| 52 Kelthane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 14.827 | 14.797-14.857 | +++++ | +++++ |
| 53 Chlorpyrifos | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 9.750 | 9.720-9.780 | +++++ | +++++ |
| 54 Methyl Parathion | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 9.107 | 9.077-9.137 | +++++ | +++++ |
| 55 Ethyl Parathion | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 10.251 | 10.221-10.281 | +++++ | +++++ |
| 56 Kepone | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.588 | 6.558-6.618 | +++++ | +++++ |
| 57 1-Chloropyrene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.953 | 6.923-6.983 | +++++ | +++++ |

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20221214.b\PEST.m\PESTB.m
Batch File: \\target\share\chem4\ecd6.i\20221214.b\B20221214.b
Inst ID: ecd6.i

ID: RT01 RT02 RT03 RT04 RT05 RT06 RT07
FILENAME: 22121412 22121413 22121414 22121415 22121416 22121417 22121418
INJ. DATE: 14-DEC-2022 14-DEC-2022 14-DEC-2022 14-DEC-2022 14-DEC-2022 15-DEC-2022 15-DEC-2022
INJ. TIME: 22:43 23:01 23:19 23:36 23:54 00:12 00:30

Table with columns: Compound, RT01, RT02, RT03, RT04, RT05, RT06, RT07, EXPEC RT, RT WINDOW, AVG RT, STD DEV. Rows include compounds like Hexachlorobutadiene, Bromo-2nitrobenzene, Hexabromobiphenyl, Tetrachloro-m-xylene, Hexachlorobenzene, alpha-BHC, gamma-BHC (Lindane), beta-BHC, delta-BHC, Heptachlor, Chlorthalonil, Aldrin, Heptachlor Epoxide a, Heptachlor epoxide b, cis-Chlordane, trans-Chlordane, and Endosulfan I.

Reviewer 1 _____ Date: _____
Reviewer 2 _____ Date: _____

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20221214.b\PEST.m\PESTB.m
Batch File: \\target\share\chem4\ecd6.i\20221214.b\B20221214.b
Inst ID: ecd6.i

| Compound | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | RT07 | EXPEC RT | RT WINDOW | AVG RT | STD DEV |
|---------------------------|-------|-------|-------|-------|-------|-------|--------|----------|---------------|--------|---------|
| 18 4,4'-DDE [C] | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.371 | 7.341-7.401 | +++++ | +++++ |
| 19 Dieldrin [C] | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.583 | 7.553-7.613 | +++++ | +++++ |
| 20 Endrin [C] | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.907 | 7.877-7.937 | +++++ | +++++ |
| 21 4,4'-DDD [C] | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.976 | 7.946-8.006 | +++++ | +++++ |
| 22 Endosulfan II [C] | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 8.117 | 8.087-8.147 | +++++ | +++++ |
| 23 4,4'-DDT [C] | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 8.295 | 8.265-8.325 | +++++ | +++++ |
| 24 Endrin aldehyde [C] | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 8.448 | 8.418-8.478 | +++++ | +++++ |
| 25 Endosulfan sulfate [C] | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 8.715 | 8.685-8.745 | +++++ | +++++ |
| 26 Methoxychlor [C] | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 8.936 | 8.906-8.966 | +++++ | +++++ |
| 27 Endrin ketone [C] | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 9.240 | 9.210-9.270 | +++++ | +++++ |
| 28 Decachlorobiphenyl [C] | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 10.471 | 10.467 | 10.437-10.497 | 10.471 | 0.000 |
| 29 Aroclor-1016 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 4.180 | 4.150-4.210 | +++++ | +++++ |
| 30 Aroclor-1221 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 5.051 | 5.021-5.081 | +++++ | +++++ |
| 31 Aroclor-1232 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 5.171 | 5.141-5.201 | +++++ | +++++ |
| 32 Aroclor-1242 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 4.970 | 4.940-5.000 | +++++ | +++++ |
| 33 Aroclor-1248 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 5.285 | 5.255-5.315 | +++++ | +++++ |
| 34 Aroclor-1254 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 5.968 | 5.938-5.998 | +++++ | +++++ |
| 35 Aroclor-1260 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.767 | 6.737-6.797 | +++++ | +++++ |
| 36 Aroclor-1262 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 9.714 | 9.684-9.744 | +++++ | +++++ |
| 37 Aroclor-1268 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 11.791 | 11.761-11.821 | +++++ | +++++ |
| 38 Toxaphene [C] | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.126 | 7.096-7.156 | +++++ | +++++ |
| 39 2,4-DDE [C] | 7.036 | 7.036 | 7.035 | 7.036 | 7.036 | 7.036 | 7.036 | 7.036 | 7.006-7.066 | 7.036 | 0.000 |

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20221214.b\PEST.m\PESTB.m
 Batch File: \\target\share\chem4\ecd6.i\20221214.b\B20221214.b
 Inst ID: ecd6.i

| Compound | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | RT07 | EXPEC RT | RT WINDOW | AVG RT | STD DEV |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|----------|---------------|--------|---------|
| 40 2,4-DDD [C] | 7.591 | 7.590 | 7.590 | 7.591 | 7.590 | 7.591 | 7.591 | 7.591 | 7.561-7.621 | 7.591 | 0.000 |
| 41 2,4-DDT [C] | 7.913 | 7.914 | 7.913 | 7.913 | 7.913 | 7.914 | 7.913 | 7.913 | 7.883-7.943 | 7.913 | 0.000 |
| 42 Hexachloroethane [C] | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 1.676 | 1.646-1.706 | +++++ | +++++ |
| 43 Oxychlorane [C] | 6.741 | 6.741 | 6.741 | 6.741 | 6.741 | 6.741 | 6.741 | 6.741 | 6.711-6.771 | 6.741 | 0.000 |
| 44 trans-Nonachlor [C] | 7.154 | 7.154 | 7.154 | 7.155 | 7.154 | 7.155 | 7.155 | 7.155 | 7.125-7.185 | 7.154 | 0.000 |
| 45 cis-Nonachlor [C] | 7.975 | 7.975 | 7.975 | 7.975 | 7.975 | 7.975 | 7.975 | 7.975 | 7.945-8.005 | 7.975 | 0.000 |
| 46 Mirex [C] | 9.223 | 9.223 | 9.222 | 9.223 | 9.222 | 9.223 | 9.223 | 9.223 | 9.193-9.253 | 9.223 | 0.000 |
| 47 bis-(2-ethylhexyl) Pht | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 21.499 | 21.469-21.529 | +++++ | +++++ |
| 48 Chlordane (NOS) [C] | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 5.612 | 5.582-5.642 | +++++ | +++++ |
| 49 Trifluralin | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 4.871 | 4.841-4.901 | +++++ | +++++ |
| 50 Dacthal | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.640 | 6.610-6.670 | +++++ | +++++ |
| 51 Oxadiazon | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 8.115 | 8.085-8.145 | +++++ | +++++ |
| 52 Kelthane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 11.286 | 11.256-11.316 | +++++ | +++++ |
| 53 Chlorpyrifos | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.527 | 6.497-6.557 | +++++ | +++++ |
| 54 Methyl Parathion | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.342 | 6.312-6.372 | +++++ | +++++ |
| 55 Ethyl Parathion | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.841 | 6.811-6.871 | +++++ | +++++ |
| 56 Kepone [C] | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.336 | 7.306-7.366 | +++++ | +++++ |
| 57 1-Chloropyrene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.745 | 7.715-7.775 | +++++ | +++++ |

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20221214.b\PEST.m
Batch File: \\target\share\chem4\ecd6.i\20221214.b
Inst ID: ecd6.i

ID: RT01 RT02 RT03 RT04 RT05 RT06 RT07
FILENAME: 22121421 22121422 22121423 22121424 22121425 22121426 22121427
INJ. DATE: 15-DEC-2022 15-DEC-2022 15-DEC-2022 15-DEC-2022 15-DEC-2022 15-DEC-2022 15-DEC-2022
INJ. TIME: 01:24 01:42 01:59 02:17 02:35 02:53 03:11

Table with columns: Compound, RT01, RT02, RT03, RT04, RT05, RT06, RT07, EXPEC RT, RT WINDOW, AVG RT, STD DEV. Rows include compounds like Hexachlorobutadiene, Bromo-2nitrobenzene, Hexabromobiphenyl, etc.

Reviewer 1 _____ Date: _____
Reviewer 2 _____ Date: _____

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20221214.b\PEST.m
Batch File: \\target\share\chem4\ecd6.i\20221214.b
Inst ID: ecd6.i

| Compound | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | RT07 | EXPEC RT | RT WINDOW | AVG RT | STD DEV |
|-----------------------|-------|-------|-------|-------|-------|-------|-------|----------|---------------|--------|---------|
| 18 4,4'-DDE | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.489 | 6.459-6.519 | +++++ | +++++ |
| 19 Dieldrin | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.831 | 6.801-6.861 | +++++ | +++++ |
| 20 Endrin | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.081 | 7.051-7.111 | +++++ | +++++ |
| 21 4,4'-DDD | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.135 | 7.105-7.165 | +++++ | +++++ |
| 22 Endosulfan II | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.317 | 7.287-7.347 | +++++ | +++++ |
| 23 4,4'-DDT | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.427 | 7.397-7.457 | +++++ | +++++ |
| 24 Endrin aldehyde | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.746 | 7.716-7.776 | +++++ | +++++ |
| 25 Methoxychlor | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.912 | 7.882-7.942 | +++++ | +++++ |
| 26 Endosulfan sulfate | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 8.180 | 8.150-8.210 | +++++ | +++++ |
| 27 Endrin ketone | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 8.453 | 8.423-8.483 | +++++ | +++++ |
| 28 Decachlorobiphenyl | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 9.380 | 9.355 | 9.325-9.385 | 9.380 | 0.000 |
| 29 Aroclor-1016 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 3.765 | 3.735-3.795 | +++++ | +++++ |
| 30 Aroclor-1221 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 4.881 | 4.851-4.911 | +++++ | +++++ |
| 31 Aroclor-1232 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 5.359 | 5.329-5.389 | +++++ | +++++ |
| 32 Aroclor-1242 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 3.765 | 3.735-3.795 | +++++ | +++++ |
| 33 Aroclor-1248 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 4.418 | 4.388-4.448 | +++++ | +++++ |
| 34 Aroclor-1254 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 5.257 | 5.227-5.287 | +++++ | +++++ |
| 35 Aroclor-1260 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.045 | 6.015-6.075 | +++++ | +++++ |
| 36 Aroclor-1262 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 8.301 | 8.271-8.331 | +++++ | +++++ |
| 37 Aroclor-1268 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 11.259 | 11.229-11.289 | +++++ | +++++ |
| 38 Toxaphene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.931 | 6.901-6.961 | +++++ | +++++ |
| 39 2,4-DDE | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.106 | 6.076-6.136 | +++++ | +++++ |

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20221214.b\PEST.m
 Batch File: \\target\share\chem4\ecd6.i\20221214.b
 Inst ID: ecd6.i

| Compound | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | RT07 | EXPEC RT | RT WINDOW | AVG RT | STD DEV |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|----------|---------------|--------|---------|
| 40 2,4-DDD | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.681 | 6.651-6.711 | +++++ | +++++ |
| 41 2,4-DDT | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.957 | 6.927-6.987 | +++++ | +++++ |
| 42 Hexachloroethane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 1.774 | 1.744-1.804 | +++++ | +++++ |
| 43 Oxychlorane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.014 | 5.984-6.044 | +++++ | +++++ |
| 44 trans-Nonachlor | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.397 | 6.367-6.427 | +++++ | +++++ |
| 45 cis-Nonachlor | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.112 | 7.082-7.142 | +++++ | +++++ |
| 46 Mirex | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 8.082 | 8.052-8.112 | +++++ | +++++ |
| 47 bis-(2-ethylhexyl) Pht | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 20.156 | 20.126-20.186 | +++++ | +++++ |
| 48 Chlordane (NOS) | 5.593 | 5.593 | 5.593 | 5.593 | 5.593 | 5.592 | 5.593 | 5.593 | 5.563-5.623 | 5.593 | 0.000 |
| 49 Trifluralin | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.319 | 6.289-6.349 | +++++ | +++++ |
| 50 Dacthal | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 9.936 | 9.906-9.966 | +++++ | +++++ |
| 51 Oxadiazon | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 11.891 | 11.861-11.921 | +++++ | +++++ |
| 52 Kelthane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 14.827 | 14.797-14.857 | +++++ | +++++ |
| 53 Chlorpyrifos | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 9.750 | 9.720-9.780 | +++++ | +++++ |
| 54 Methyl Parathion | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 9.107 | 9.077-9.137 | +++++ | +++++ |
| 55 Ethyl Parathion | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 10.251 | 10.221-10.281 | +++++ | +++++ |
| 56 Kepone | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.588 | 6.558-6.618 | +++++ | +++++ |
| 57 1-Chloropyrene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.953 | 6.923-6.983 | +++++ | +++++ |

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20221214.b\PEST.m\PESTB.m
Batch File: \\target\share\chem4\ecd6.i\20221214.b\B20221214.b
Inst ID: ecd6.i

ID: RT01 RT02 RT03 RT04 RT05 RT06 RT07
FILENAME: 22121421 22121422 22121423 22121424 22121425 22121426 22121427
INJ. DATE: 15-DEC-2022 15-DEC-2022 15-DEC-2022 15-DEC-2022 15-DEC-2022 15-DEC-2022 15-DEC-2022
INJ. TIME: 01:24 01:42 01:59 02:17 02:35 02:53 03:11

Table with columns: Compound, RT01, RT02, RT03, RT04, RT05, RT06, RT07, EXPEC RT, RT WINDOW, AVG RT, STD DEV. Rows include compounds like Hexachlorobutadiene, Bromo-2nitrobenzene, Hexabromobiphenyl, Tetrachloro-m-xylene, Hexachlorobenzene, alpha-BHC, gamma-BHC (Lindane), beta-BHC, delta-BHC, Heptachlor, Chlorthalonil, Aldrin, Heptachlor Epoxide a, Heptachlor epoxide b, cis-Chlordane, trans-Chlordane, and Endosulfan I.

Reviewer 1 _____ Date: _____
Reviewer 2 _____ Date: _____

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20221214.b\PEST.m\PESTB.m
 Batch File: \\target\share\chem4\ecd6.i\20221214.b\B20221214.b
 Inst ID: ecd6.i

| Compound | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | RT07 | EXPEC RT | RT WINDOW | AVG RT | STD DEV |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|----------|---------------|--------|---------|
| 18 4,4'-DDE [C] | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.371 | 7.341-7.401 | +++++ | +++++ |
| 19 Dieldrin [C] | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.583 | 7.553-7.613 | +++++ | +++++ |
| 20 Endrin [C] | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.907 | 7.877-7.937 | +++++ | +++++ |
| 21 4,4'-DDD [C] | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.976 | 7.946-8.006 | +++++ | +++++ |
| 22 Endosulfan II [C] | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 8.117 | 8.087-8.147 | +++++ | +++++ |
| 23 4,4'-DDT [C] | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 8.295 | 8.265-8.325 | +++++ | +++++ |
| 24 Endrin aldehyde [C] | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 8.448 | 8.418-8.478 | +++++ | +++++ |
| 25 Endosulfan sulfate [C] | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 8.715 | 8.685-8.745 | +++++ | +++++ |
| 26 Methoxychlor [C] | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 8.936 | 8.906-8.966 | +++++ | +++++ |
| 27 Endrin ketone [C] | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 9.240 | 9.210-9.270 | +++++ | +++++ |
| 28 Decachlorobiphenyl [C] | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 10.467 | 10.437-10.497 | +++++ | +++++ |
| 29 Aroclor-1016 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 4.180 | 4.150-4.210 | +++++ | +++++ |
| 30 Aroclor-1221 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 5.051 | 5.021-5.081 | +++++ | +++++ |
| 31 Aroclor-1232 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 5.171 | 5.141-5.201 | +++++ | +++++ |
| 32 Aroclor-1242 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 4.970 | 4.940-5.000 | +++++ | +++++ |
| 33 Aroclor-1248 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 5.285 | 5.255-5.315 | +++++ | +++++ |
| 34 Aroclor-1254 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 5.968 | 5.938-5.998 | +++++ | +++++ |
| 35 Aroclor-1260 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.767 | 6.737-6.797 | +++++ | +++++ |
| 36 Aroclor-1262 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 9.714 | 9.684-9.744 | +++++ | +++++ |
| 37 Aroclor-1268 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 11.791 | 11.761-11.821 | +++++ | +++++ |
| 38 Toxaphene [C] | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.126 | 7.096-7.156 | +++++ | +++++ |
| 39 2,4-DDE [C] | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.036 | 7.006-7.066 | +++++ | +++++ |

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20221214.b\PEST.m\PESTB.m
 Batch File: \\target\share\chem4\ecd6.i\20221214.b\B20221214.b
 Inst ID: ecd6.i

| Compound | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | RT07 | EXPEC RT | RT WINDOW | AVG RT | STD DEV |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|----------|---------------|--------|---------|
| 40 2,4-DDD [C] | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.591 | 7.561-7.621 | +++++ | +++++ |
| 41 2,4-DDT [C] | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.913 | 7.883-7.943 | +++++ | +++++ |
| 42 Hexachloroethane [C] | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 1.676 | 1.646-1.706 | +++++ | +++++ |
| 43 Oxychlorane [C] | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.741 | 6.711-6.771 | +++++ | +++++ |
| 44 trans-Nonachlor [C] | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.155 | 7.125-7.185 | +++++ | +++++ |
| 45 cis-Nonachlor [C] | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.975 | 7.945-8.005 | +++++ | +++++ |
| 46 Mirex [C] | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 9.223 | 9.193-9.253 | +++++ | +++++ |
| 47 bis-(2-ethylhexyl) Pht | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 21.499 | 21.469-21.529 | +++++ | +++++ |
| 48 Chlordane (NOS) [C] | 5.612 | 5.612 | 5.612 | 5.611 | 5.612 | 5.612 | 5.612 | 5.612 | 5.582-5.642 | 5.612 | 0.000 |
| 49 Trifluralin | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 4.871 | 4.841-4.901 | +++++ | +++++ |
| 50 Dacthal | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.640 | 6.610-6.670 | +++++ | +++++ |
| 51 Oxadiazon | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 8.115 | 8.085-8.145 | +++++ | +++++ |
| 52 Kelthane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 11.286 | 11.256-11.316 | +++++ | +++++ |
| 53 Chlorpyrifos | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.527 | 6.497-6.557 | +++++ | +++++ |
| 54 Methyl Parathion | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.342 | 6.312-6.372 | +++++ | +++++ |
| 55 Ethyl Parathion | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.841 | 6.811-6.871 | +++++ | +++++ |
| 56 Kepone [C] | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.336 | 7.306-7.366 | +++++ | +++++ |
| 57 1-Chloropyrene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.745 | 7.715-7.775 | +++++ | +++++ |

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20221214.b\PEST.m
Batch File: \\target\share\chem4\ecd6.i\20221214.b
Inst ID: ecd6.i

ID: RT01 RT02 RT03 RT04 RT05 RT06 RT07
FILENAME: 22121428 22121429 22121430 22121431 22121432 22121433 22121434
INJ. DATE: 15-DEC-2022 15-DEC-2022 15-DEC-2022 15-DEC-2022 15-DEC-2022 15-DEC-2022 15-DEC-2022
INJ. TIME: 03:29 03:46 04:04 04:22 04:40 04:58 05:16

Table with 12 columns: Compound, RT01, RT02, RT03, RT04, RT05, RT06, RT07, EXPEC RT, RT WINDOW, AVG RT, STD DEV. Rows list various compounds like Hexachlorobutadiene, Bromo-2nitrobenzene, Hexabromobiphenyl, etc., with their respective retention times and standard deviations.

Reviewer 1 _____ Date: _____
Reviewer 2 _____ Date: _____

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20221214.b\PEST.m
Batch File: \\target\share\chem4\ecd6.i\20221214.b
Inst ID: ecd6.i

| Compound | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | RT07 | EXPEC RT | RT WINDOW | AVG RT | STD DEV |
|-----------------------|-------|-------|-------|-------|-------|-------|-------|----------|---------------|--------|---------|
| 18 4,4'-DDE | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.489 | 6.459-6.519 | +++++ | +++++ |
| 19 Dieldrin | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.831 | 6.801-6.861 | +++++ | +++++ |
| 20 Endrin | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.081 | 7.051-7.111 | +++++ | +++++ |
| 21 4,4'-DDD | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.135 | 7.105-7.165 | +++++ | +++++ |
| 22 Endosulfan II | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.317 | 7.287-7.347 | +++++ | +++++ |
| 23 4,4'-DDT | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.427 | 7.397-7.457 | +++++ | +++++ |
| 24 Endrin aldehyde | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.746 | 7.716-7.776 | +++++ | +++++ |
| 25 Methoxychlor | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.912 | 7.882-7.942 | +++++ | +++++ |
| 26 Endosulfan sulfate | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 8.180 | 8.150-8.210 | +++++ | +++++ |
| 27 Endrin ketone | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 8.453 | 8.423-8.483 | +++++ | +++++ |
| 28 Decachlorobiphenyl | 9.355 | 9.355 | 9.355 | 9.355 | 9.356 | 9.356 | 9.355 | 9.355 | 9.325-9.385 | 9.356 | 0.000 |
| 29 Aroclor-1016 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 3.765 | 3.735-3.795 | +++++ | +++++ |
| 30 Aroclor-1221 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 4.881 | 4.851-4.911 | +++++ | +++++ |
| 31 Aroclor-1232 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 5.359 | 5.329-5.389 | +++++ | +++++ |
| 32 Aroclor-1242 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 3.765 | 3.735-3.795 | +++++ | +++++ |
| 33 Aroclor-1248 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 4.418 | 4.388-4.448 | +++++ | +++++ |
| 34 Aroclor-1254 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 5.257 | 5.227-5.287 | +++++ | +++++ |
| 35 Aroclor-1260 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.045 | 6.015-6.075 | +++++ | +++++ |
| 36 Aroclor-1262 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 8.301 | 8.271-8.331 | +++++ | +++++ |
| 37 Aroclor-1268 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 11.259 | 11.229-11.289 | +++++ | +++++ |
| 38 Toxaphene | 6.931 | 6.931 | 6.931 | 6.931 | 6.931 | 6.931 | 6.931 | 6.931 | 6.901-6.961 | 6.931 | 0.000 |
| 39 2,4-DDE | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.106 | 6.076-6.136 | +++++ | +++++ |

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20221214.b\PEST.m
Batch File: \\target\share\chem4\ecd6.i\20221214.b
Inst ID: ecd6.i

| Compound | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | RT07 | EXPEC RT | RT WINDOW | AVG RT | STD DEV |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|----------|---------------|--------|---------|
| 40 2,4-DDD | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.681 | 6.651-6.711 | +++++ | +++++ |
| 41 2,4-DDT | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.957 | 6.927-6.987 | +++++ | +++++ |
| 42 Hexachloroethane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 1.774 | 1.744-1.804 | +++++ | +++++ |
| 43 Oxychlorane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.014 | 5.984-6.044 | +++++ | +++++ |
| 44 trans-Nonachlor | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.397 | 6.367-6.427 | +++++ | +++++ |
| 45 cis-Nonachlor | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.112 | 7.082-7.142 | +++++ | +++++ |
| 46 Mirex | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 8.082 | 8.052-8.112 | +++++ | +++++ |
| 47 bis-(2-ethylhexyl) Pht | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 20.156 | 20.126-20.186 | +++++ | +++++ |
| 48 Chlordane (NOS) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 5.593 | 5.563-5.623 | +++++ | +++++ |
| 49 Trifluralin | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.319 | 6.289-6.349 | +++++ | +++++ |
| 50 Dacthal | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 9.936 | 9.906-9.966 | +++++ | +++++ |
| 51 Oxadiazon | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 11.891 | 11.861-11.921 | +++++ | +++++ |
| 52 Kelthane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 14.827 | 14.797-14.857 | +++++ | +++++ |
| 53 Chlorpyrifos | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 9.750 | 9.720-9.780 | +++++ | +++++ |
| 54 Methyl Parathion | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 9.107 | 9.077-9.137 | +++++ | +++++ |
| 55 Ethyl Parathion | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 10.251 | 10.221-10.281 | +++++ | +++++ |
| 56 Kepone | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.588 | 6.558-6.618 | +++++ | +++++ |
| 57 1-Chloropyrene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.953 | 6.923-6.983 | +++++ | +++++ |

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20221214.b\PEST.m\PESTB.m
Batch File: \\target\share\chem4\ecd6.i\20221214.b\B20221214.b
Inst ID: ecd6.i

ID: RT01 RT02 RT03 RT04 RT05 RT06 RT07
FILENAME: 22121428 22121429 22121430 22121431 22121432 22121433 22121434
INJ. DATE: 15-DEC-2022 15-DEC-2022 15-DEC-2022 15-DEC-2022 15-DEC-2022 15-DEC-2022 15-DEC-2022
INJ. TIME: 03:29 03:46 04:04 04:22 04:40 04:58 05:16

Table with 12 columns: Compound, RT01, RT02, RT03, RT04, RT05, RT06, RT07, EXPEC RT, RT WINDOW, AVG RT, STD DEV. Rows list various compounds like Hexachlorobutadiene, Bromo-2nitrobenzene, Hexabromobiphenyl, etc., with their respective retention times and standard deviations.

Reviewer 1 _____ Date: _____
Reviewer 2 _____ Date: _____

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20221214.b\PEST.m\PESTB.m
Batch File: \\target\share\chem4\ecd6.i\20221214.b\B20221214.b
Inst ID: ecd6.i

| Compound | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | RT07 | EXPEC RT | RT WINDOW | AVG RT | STD DEV |
|------------------------------|--------|--------|--------|--------|--------|--------|--------|----------|---------------|--------|---------|
| 18 4,4'-DDE [C] | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.371 | 7.341-7.401 | +++++ | +++++ |
| 19 Dieldrin [C] | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.583 | 7.553-7.613 | +++++ | +++++ |
| 20 Endrin [C] | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.907 | 7.877-7.937 | +++++ | +++++ |
| 21 4,4'-DDD [C] | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.976 | 7.946-8.006 | +++++ | +++++ |
| 22 Endosulfan II [C] | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 8.117 | 8.087-8.147 | +++++ | +++++ |
| 23 4,4'-DDT [C] | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 8.295 | 8.265-8.325 | +++++ | +++++ |
| 24 Endrin aldehyde [C] | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 8.448 | 8.418-8.478 | +++++ | +++++ |
| 25 Endosulfan sulfate [C] | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 8.715 | 8.685-8.745 | +++++ | +++++ |
| 26 Methoxychlor [C] | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 8.936 | 8.906-8.966 | +++++ | +++++ |
| 27 Endrin ketone [C] | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 9.240 | 9.210-9.270 | +++++ | +++++ |
| \$ 28 Decachlorobiphenyl [C] | 10.467 | 10.467 | 10.467 | 10.466 | 10.466 | 10.466 | 10.467 | 10.467 | 10.437-10.497 | 10.466 | 0.000 |
| 29 Aroclor-1016 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 4.180 | 4.150-4.210 | +++++ | +++++ |
| 30 Aroclor-1221 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 5.051 | 5.021-5.081 | +++++ | +++++ |
| 31 Aroclor-1232 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 5.171 | 5.141-5.201 | +++++ | +++++ |
| 32 Aroclor-1242 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 4.970 | 4.940-5.000 | +++++ | +++++ |
| 33 Aroclor-1248 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 5.285 | 5.255-5.315 | +++++ | +++++ |
| 34 Aroclor-1254 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 5.968 | 5.938-5.998 | +++++ | +++++ |
| 35 Aroclor-1260 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.767 | 6.737-6.797 | +++++ | +++++ |
| 36 Aroclor-1262 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 9.714 | 9.684-9.744 | +++++ | +++++ |
| 37 Aroclor-1268 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 11.791 | 11.761-11.821 | +++++ | +++++ |
| 38 Toxaphene [C] | 7.125 | 7.125 | 7.125 | 7.125 | 7.126 | 7.126 | 7.126 | 7.126 | 7.096-7.156 | 7.125 | 0.000 |
| 39 2,4-DDE [C] | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.036 | 7.006-7.066 | +++++ | +++++ |

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20221214.b\PEST.m\PESTB.m
 Batch File: \\target\share\chem4\ecd6.i\20221214.b\B20221214.b
 Inst ID: ecd6.i

| Compound | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | RT07 | EXPEC RT | RT WINDOW | AVG RT | STD DEV |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|----------|---------------|--------|---------|
| 40 2,4-DDD [C] | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.591 | 7.561-7.621 | +++++ | +++++ |
| 41 2,4-DDT [C] | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.913 | 7.883-7.943 | +++++ | +++++ |
| 42 Hexachloroethane [C] | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 1.676 | 1.646-1.706 | +++++ | +++++ |
| 43 Oxychlorane [C] | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.741 | 6.711-6.771 | +++++ | +++++ |
| 44 trans-Nonachlor [C] | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.155 | 7.125-7.185 | +++++ | +++++ |
| 45 cis-Nonachlor [C] | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.975 | 7.945-8.005 | +++++ | +++++ |
| 46 Mirex [C] | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 9.223 | 9.193-9.253 | +++++ | +++++ |
| 47 bis-(2-ethylhexyl) Pht | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 21.499 | 21.469-21.529 | +++++ | +++++ |
| 48 Chlordane (NOS) [C] | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 5.612 | 5.582-5.642 | +++++ | +++++ |
| 49 Trifluralin | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 4.871 | 4.841-4.901 | +++++ | +++++ |
| 50 Dacthal | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.640 | 6.610-6.670 | +++++ | +++++ |
| 51 Oxadiazon | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 8.115 | 8.085-8.145 | +++++ | +++++ |
| 52 Kelthane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 11.286 | 11.256-11.316 | +++++ | +++++ |
| 53 Chlorpyrifos | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.527 | 6.497-6.557 | +++++ | +++++ |
| 54 Methyl Parathion | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.342 | 6.312-6.372 | +++++ | +++++ |
| 55 Ethyl Parathion | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.841 | 6.811-6.871 | +++++ | +++++ |
| 56 Kepone [C] | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.336 | 7.306-7.366 | +++++ | +++++ |
| 57 1-Chloropyrene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.745 | 7.715-7.775 | +++++ | +++++ |

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121403.D
Data file 2: /20221214.b/B20221214.b/22121403.D
Method: \20221214.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-IBL1
Client ID:
Injection Date: 14-DEC-2022 20:02
Report Date: 12/16/2022 15:19
Units: ng/mL
Dilution Factor: 1.000

| STX-CLP Col | | | CLP2 Col | | | STX-CLP | CLP2 | RPD | Compound/Flag |
|-------------|--------|----------|----------|--------|----------|---------|--------|--------|----------------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | |
| ---- | | | ---- | | | 0.00 | 0.00 | --- | alpha-BHC |
| ---- | | | ---- | | | 0.00 | 0.00 | --- | beta-BHC |
| ---- | | | ---- | | | 0.00 | 0.00 | --- | delta-BHC |
| ---- | | | ---- | | | 0.00 | 0.00 | --- | gamma-BHC (Lindane) |
| ---- | | | ---- | | | 0.00 | 0.00 | --- | Heptachlor |
| ---- | | | ---- | | | 0.00 | 0.00 | --- | Aldrin |
| ---- | | | 6.824 | -0.021 | 2291 | 0.00 | 0.14 | --- | Heptachlor epoxide b |
| ---- | | | ---- | | | 0.00 | 0.00 | --- | Endosulfan I |
| ---- | | | 7.597 | 0.015 | 1696 | 0.00 | 0.11 | --- | Dieldrin |
| ---- | | | ---- | | | 0.00 | 0.00 | --- | 4,4'-DDE |
| ---- | | | ---- | | | 0.00 | 0.00 | --- | Endrin |
| ---- | | | 8.135 | 0.018 | 285 | 0.00 | 0.02 | --- | Endosulfan II |
| ---- | | | 7.975 | -0.002 | 1369 | 0.00 | 0.12 | --- | 4,4'-DDD |
| ---- | | | 8.720 | 0.005 | 243 | 0.00 | 0.02 | --- | Endosulfan sulfate |
| ---- | | | ---- | | | 0.00 | 0.00 | --- | 4,4'-DDT |
| ---- | | | 8.924 | -0.013 | 546 | 0.00 | 0.11 | --- | Methoxychlor |
| 8.444 | -0.009 | 1962 | 9.226 | -0.013 | 2888 | 0.23 | 0.25 | 10.1 | Endrin ketone |
| ---- | | | ---- | | | 0.00 | 0.00 | --- | Endrin aldehyde |
| ---- | | | 7.070 | 0.014 | 4708 | 0.00 | 0.30 | --- | trans-Chlordane |
| ---- | | | 7.219 | 0.003 | 810 | 0.00 | 0.05 | --- | cis-Chlordane |
| 2.351 | 0.028 | 6378 | 2.512 | 0.012 | 33421 | 0.42 | 1.60 | 116.6* | Hexachlorobutadiene |
| 4.183 | 0.001 | 4869 | 4.721 | 0.003 | 421 | 0.36 | 0.02 | 178.1* | Hexachlorobenzene |
| 3.828 | 0.000 | 375293 | 4.220 | -0.000 | 579767 | 36.70 | 37.46 | 2.1 | Tetrachloro-m-xylene |
| 9.356 | 0.001 | 243291 | 10.467 | 0.000 | 323668 | 35.86 | 35.40 | 1.3 | Decachlorobiphenyl |

* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|-----|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 710650 | 751998 | 5.8 |
| Hexabromobiphenyl | 641833 | 669495 | 4.3 |

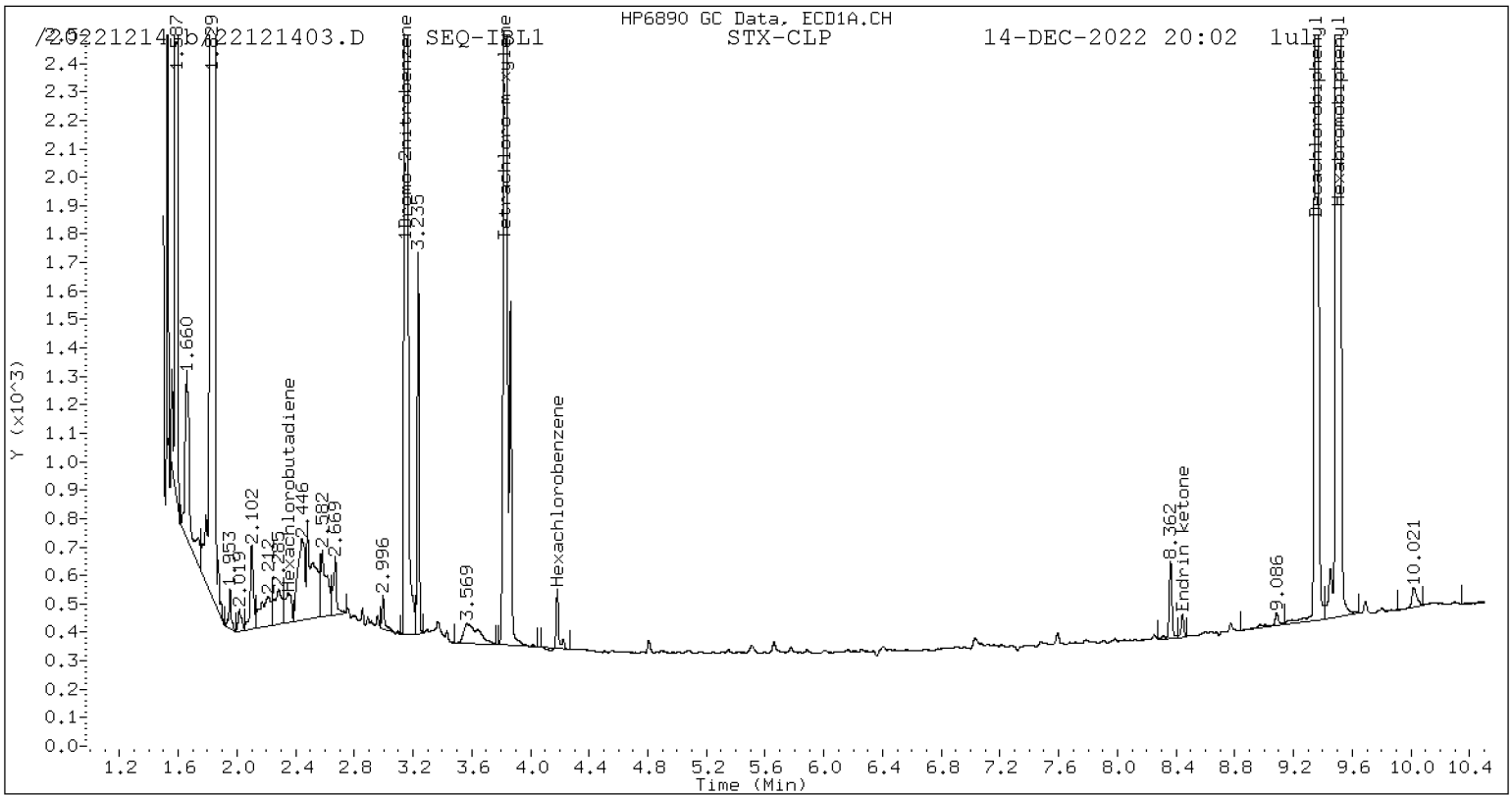
| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|-----|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 1058848 | 1099555 | 3.8 |
| Hexabromobiphenyl | 797125 | 827325 | 3.8 |

* Standard Areas taken from Initial Cal Level 5

Initial Calibration Date: 14-DEC-2022

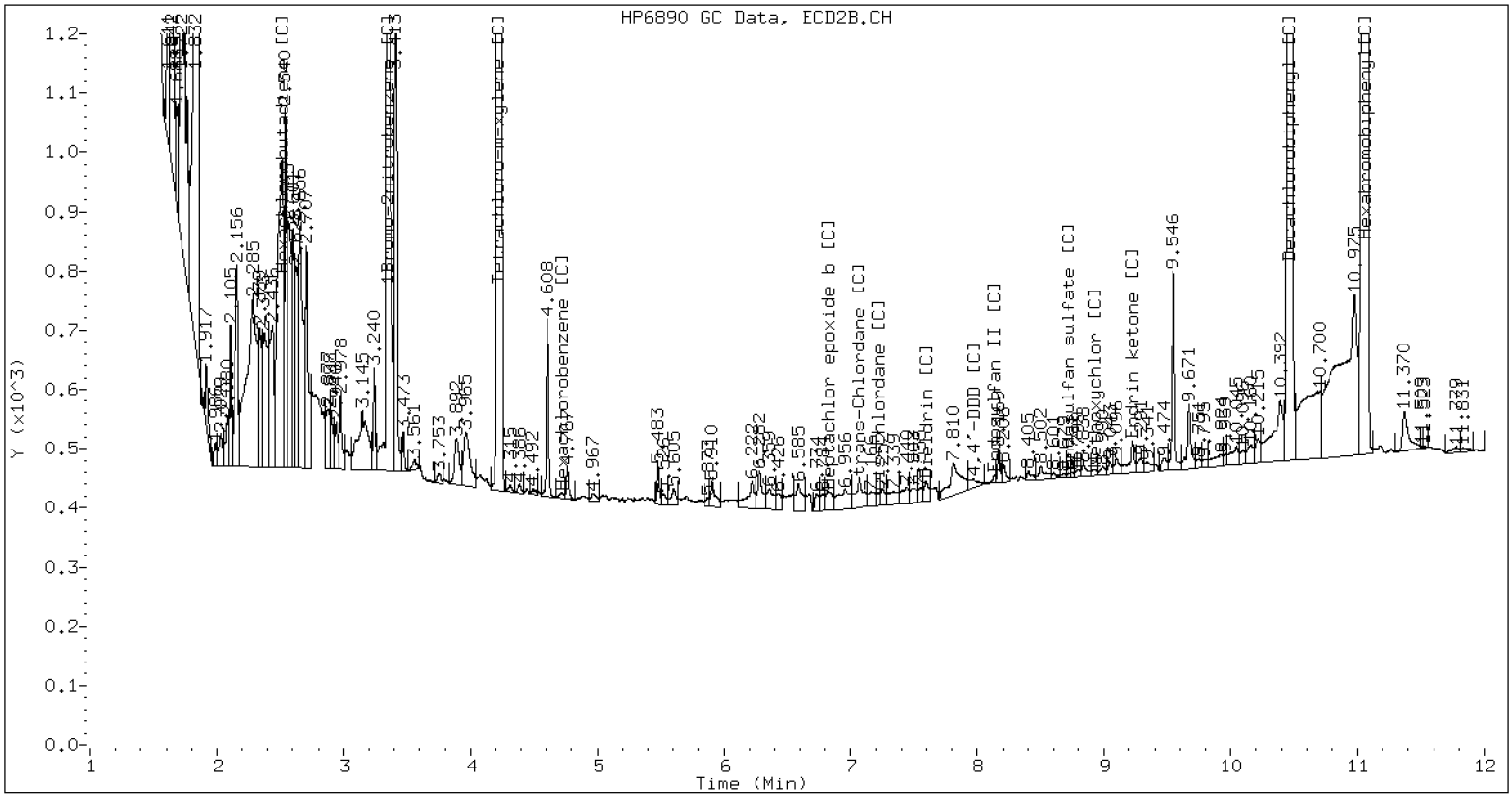
<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20221214.b/B20221214.b/22121403.D SEQ-IBL1 CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121403.D
Data file 2: /20221214.b/B20221214.b/22121403.D
Method: \20221214.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-IBL1
Client ID:
Injection Date: 14-DEC-2022 20:02
Report Date: 12/15/2022 09:09
Units: ng/mL
Dilution Factor: 1.000

| STX-CLP Col | CLP2 Col | STX-CLP | CLP2 | RPD | Compound/Flag | |
|-------------|----------------|---------|----------------|--------|---------------|--|
| RT | Shift Response | RT | Shift Response | on col | on col | |

=====

7E
8081 DDT/ENDRIN BREAKDOWN VERIFICATION SUMMARY

Lab ID: SEQ-PEM1 InstID,Data File: ecd6.i, 22121404.D
Analysis Date: 14-DEC-2022 20:20 Init. Calib. Date: 14-DEC-2022

GC Column: STX-CLP1 ID: 0.53(mm)

| COMPOUND | RT | AREA |
|----------------------|-------|---------|
| 1Bromo-2nitrobenzene | 3.151 | 683485 |
| 4,4'-DDE | 6.490 | 6258 |
| Endrin | 7.082 | 745471 |
| 4,4'-DDD | 7.136 | 15566 |
| 4,4'-DDT | 7.428 | 629664 |
| Endrin ketone | 8.453 | 19276 |
| Endrin aldehyde | 7.747 | 21328 |
| Hexabromobiphenyl | 9.504 | 619012 |
| Tetrachloro-m-xylene | 3.828 | 1161664 |
| Decachlorobiphenyl | 9.355 | 833312 |

DDT Percent Breakdown = 3.3 %
 $((6258+15566) * 100)/(6258+15566+629664)$

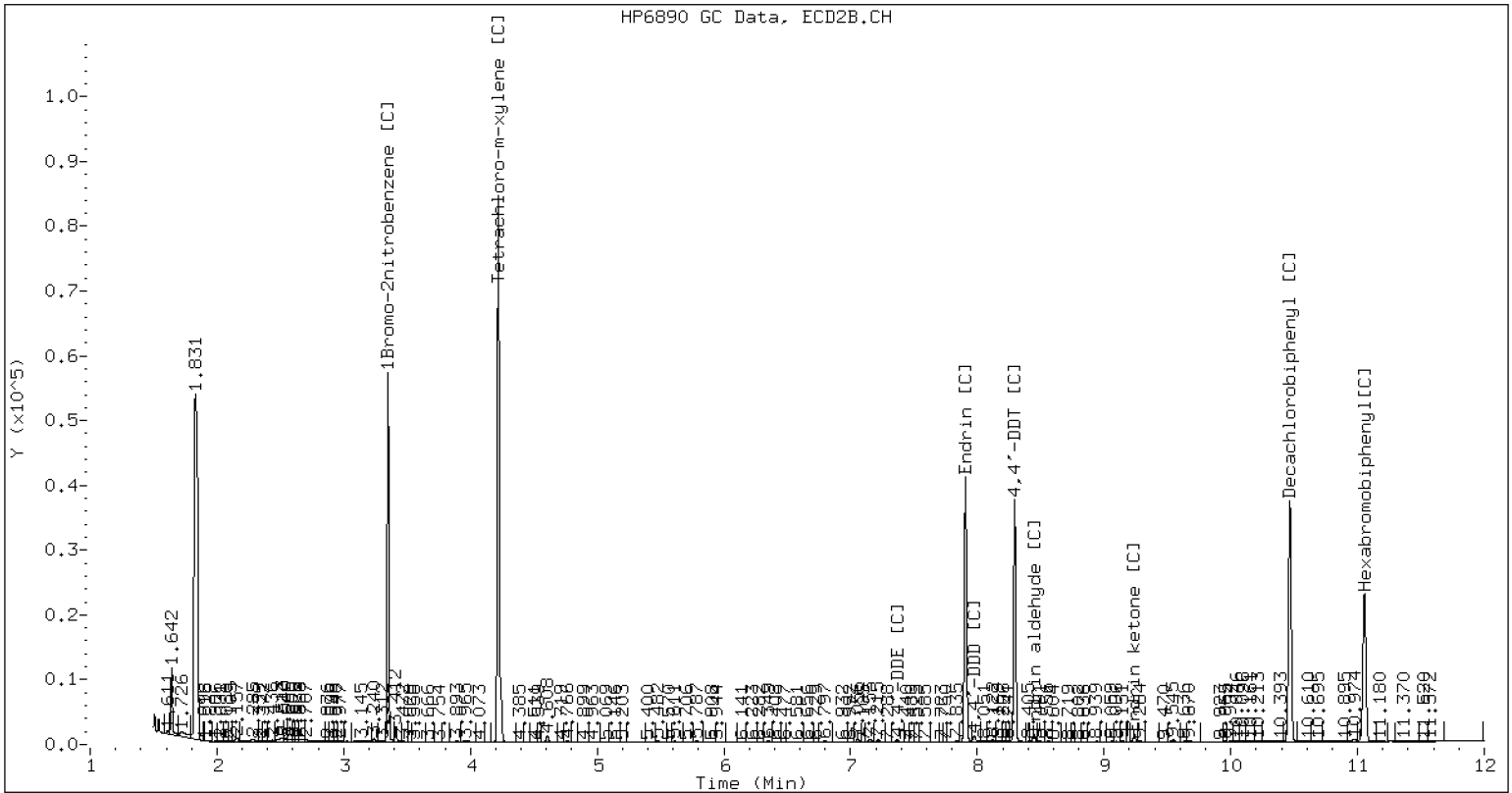
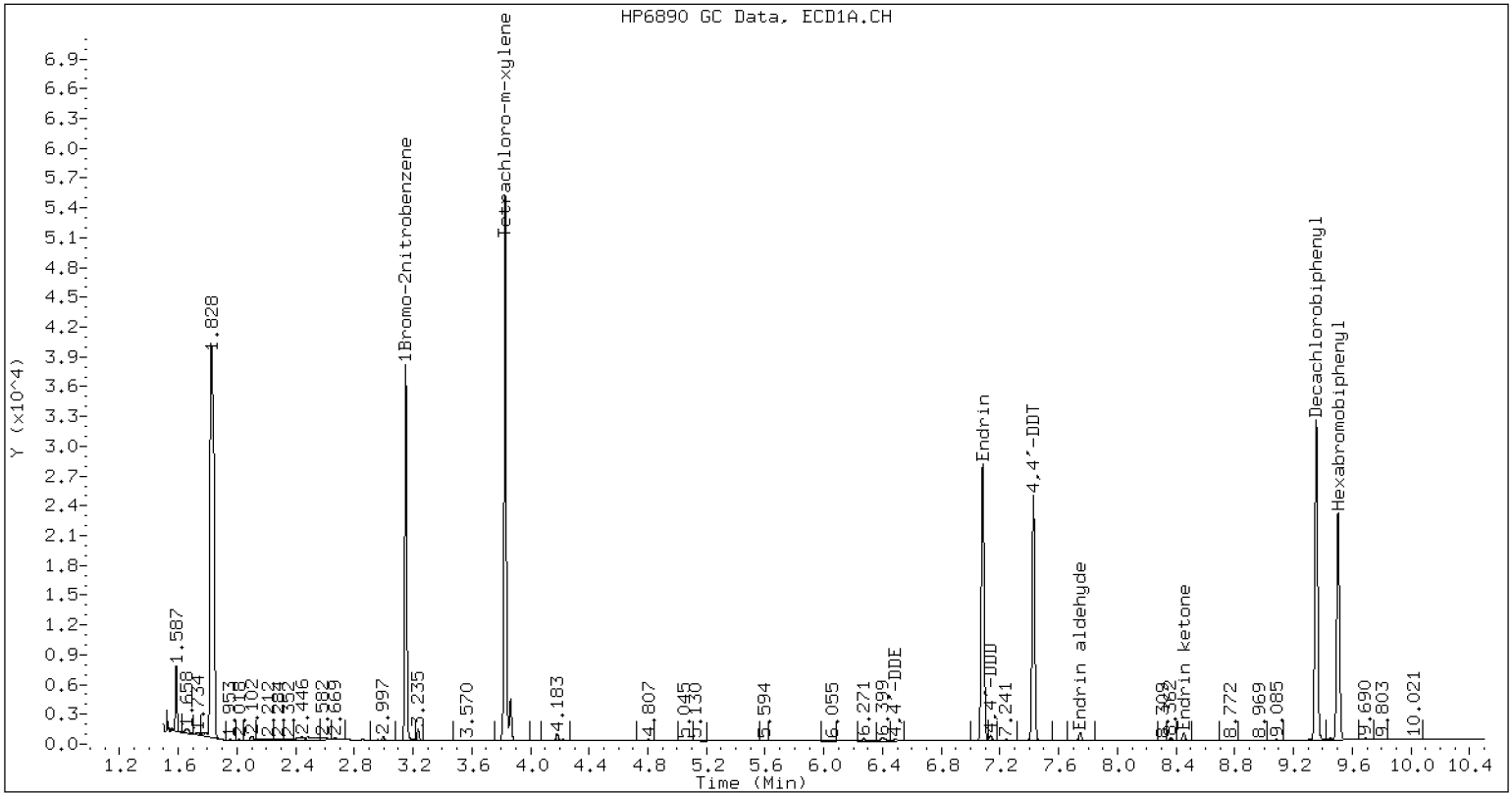
Endrin Percent Breakdown = 5.2 %
 $((21328+19276) * 100)/(21328+19276+745471)$

GC Column: STX-CLP2 ID: 0.53(mm)

| COMPOUND | RT | AREA |
|--------------------------|--------|---------|
| 1Bromo-2nitrobenzene [C] | 3.350 | 1005375 |
| 4,4'-DDE [C] | 7.370 | 11906 |
| Endrin [C] | 7.907 | 1029194 |
| 4,4'-DDD [C] | 7.977 | 32697 |
| 4,4'-DDT [C] | 8.295 | 890195 |
| Endrin ketone [C] | 9.239 | 28268 |
| Endrin aldehyde [C] | 8.448 | 31426 |
| Hexabromobiphenyl [C] | 11.054 | 772586 |
| Tetrachloro-m-xylene [C] | 4.220 | 1890294 |
| Decachlorobiphenyl [C] | 10.467 | 1140978 |

DDT Percent Breakdown = 4.8 %
 $((11906+32697) * 100)/(11906+32697+890195)$

Endrin Percent Breakdown = 5.5 %
 $((31426+28268) * 100)/(31426+28268+1029194)$



7E
8081 DDT/ENDRIN BREAKDOWN VERIFICATION SUMMARY

Lab ID: SEQ-PEM1 InstID,Data File: ecd6.i, 22121404.D
Analysis Date: 14-DEC-2022 20:20 Init. Calib. Date: 14-DEC-2022

GC Column: STX-CLP1 ID: 0.53(mm)

| COMPOUND | RT | AREA |
|----------------------|-------|---------|
| 1Bromo-2nitrobenzene | 3.151 | 683485 |
| 4,4'-DDE | 6.490 | 6258 |
| Endrin | 7.082 | 745471 |
| 4,4'-DDD | 7.136 | 15566 |
| 4,4'-DDT | 7.428 | 629664 |
| Endrin ketone | 8.453 | 19276 |
| Endrin aldehyde | 7.747 | 21328 |
| Hexabromobiphenyl | 9.504 | 619012 |
| Tetrachloro-m-xylene | 3.828 | 1161664 |
| Decachlorobiphenyl | 9.355 | 833312 |

DDT Percent Breakdown = 3.3 %
 $((6258+15566) * 100)/(6258+15566+629664)$

Endrin Percent Breakdown = 5.2 %
 $((21328+19276) * 100)/(21328+19276+745471)$

GC Column: STX-CLP1 ID: 0.53(mm)

| COMPOUND | RT | AREA |
|--------------------|-------|--------|
| Decachlorobiphenyl | 9.355 | 833312 |
| Decachlorobiphenyl | 9.355 | 833312 |
| Decachlorobiphenyl | 9.355 | 833312 |

| | | |
|--------------------|-------|--------|
| Decachlorobiphenyl | 9.355 | 833312 |
| Decachlorobiphenyl | 9.355 | 833312 |
| Decachlorobiphenyl | 9.355 | 833312 |
| Decachlorobiphenyl | 9.355 | 833312 |
| Decachlorobiphenyl | 9.355 | 833312 |
| Decachlorobiphenyl | 9.355 | 833312 |
| Decachlorobiphenyl | 9.355 | 833312 |

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121405.D
Data file 2: /20221214.b/B20221214.b/22121405.D
Method: \20221214.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL1
Client ID:
Injection Date: 14-DEC-2022 20:38
Report Date: 12/16/2022 15:19
Units: ng/mL
Dilution Factor: 1.000

| STX-CLP Col | | | CLP2 Col | | | STX-CLP | CLP2 | RPD | Compound/Flag |
|-------------|--------|----------|----------|--------|----------|---------|--------|------|----------------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | |
| 4.342 | -0.000 | 17720 | 4.860 | -0.001 | 25579 | 1.30 | 1.22 | 6.4 | alpha-BHC |
| 4.726 | -0.000 | 7513 | 5.337 | -0.000 | 10927 | 1.43 | 1.37 | 4.4 | beta-BHC |
| 4.909 | -0.000 | 14050 | 5.690 | -0.000 | 21188 | 1.26 | 1.23 | 2.8 | delta-BHC |
| 4.645 | -0.000 | 15329 | 5.257 | -0.001 | 21981 | 1.30 | 1.24 | 4.9 | gamma-BHC (Lindane) |
| 5.130 | -0.000 | 14540 | 5.786 | -0.000 | 20395 | 1.38 | 1.27 | 8.9 | Heptachlor |
| 5.453 | -0.001 | 15026 | 6.190 | -0.001 | 24413 | 1.28 | 1.33 | 3.9 | Aldrin |
| 6.130 | 0.000 | 13937 | 6.845 | -0.000 | 21959 | 1.37 | 1.44 | 5.6 | Heptachlor epoxide b |
| 6.572 | -0.000 | 13220 | 7.288 | -0.000 | 19257 | 1.41 | 1.44 | 1.8 | Endosulfan I |
| 6.831 | 0.000 | 27285 | 7.582 | -0.001 | 43580 | 2.71 | 2.94 | 8.2 | Dieldrin |
| 6.489 | 0.000 | 25951 | 7.370 | -0.001 | 37722 | 2.78 | 2.78 | 0.0 | 4,4'-DDE |
| 7.081 | 0.000 | 24429 | 7.906 | -0.001 | 31381 | 2.94 | 2.78 | 5.3 | Endrin |
| 7.318 | 0.001 | 19827 | 8.117 | -0.000 | 30675 | 2.65 | 2.66 | 0.3 | Endosulfan II |
| 7.135 | 0.000 | 20434 | 7.976 | -0.000 | 28995 | 2.73 | 2.65 | 3.0 | 4,4'-DDD |
| 8.180 | -0.000 | 19661 | 8.715 | -0.000 | 26689 | 2.76 | 2.63 | 4.9 | Endosulfan sulfate |
| 7.427 | 0.000 | 20071 | 8.294 | -0.001 | 26950 | 2.65 | 2.55 | 3.9 | 4,4'-DDT |
| 7.912 | -0.000 | 52385 | 8.935 | -0.001 | 65896 | 15.60 | 14.07 | 10.3 | Methoxychlor |
| 8.453 | -0.001 | 24276 | 9.239 | -0.000 | 30129 | 2.98 | 2.75 | 8.0 | Endrin ketone |
| 7.746 | -0.000 | 17209 | 8.448 | -0.000 | 21218 | 2.88 | 2.60 | 10.1 | Endrin aldehyde |
| 6.270 | -0.001 | 14829 | 7.056 | -0.000 | 22517 | 1.43 | 1.48 | 3.7 | trans-Chlordane |
| 6.417 | 0.000 | 15767 | 7.215 | -0.000 | 22150 | 1.52 | 1.49 | 1.6 | cis-Chlordane |
| 2.323 | -0.001 | 27320 | 2.500 | -0.001 | 42655 | 1.92 | 2.14 | 11.3 | Hexachlorobutadiene |
| 4.182 | 0.000 | 18555 | 4.718 | -0.000 | 27377 | 1.47 | 1.44 | 2.2 | Hexachlorobenzene |
| 3.828 | -0.000 | 28792 | 4.220 | -0.001 | 41270 | 2.99 | 2.80 | 6.5 | Tetrachloro-m-xylene |
| 9.355 | -0.000 | 21954 | 10.466 | -0.000 | 30646 | 3.41 | 3.50 | 2.5 | Decachlorobiphenyl |

* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 710650 | 707324 | -0.5 |
| Hexabromobiphenyl | 641833 | 634819 | -1.1 |

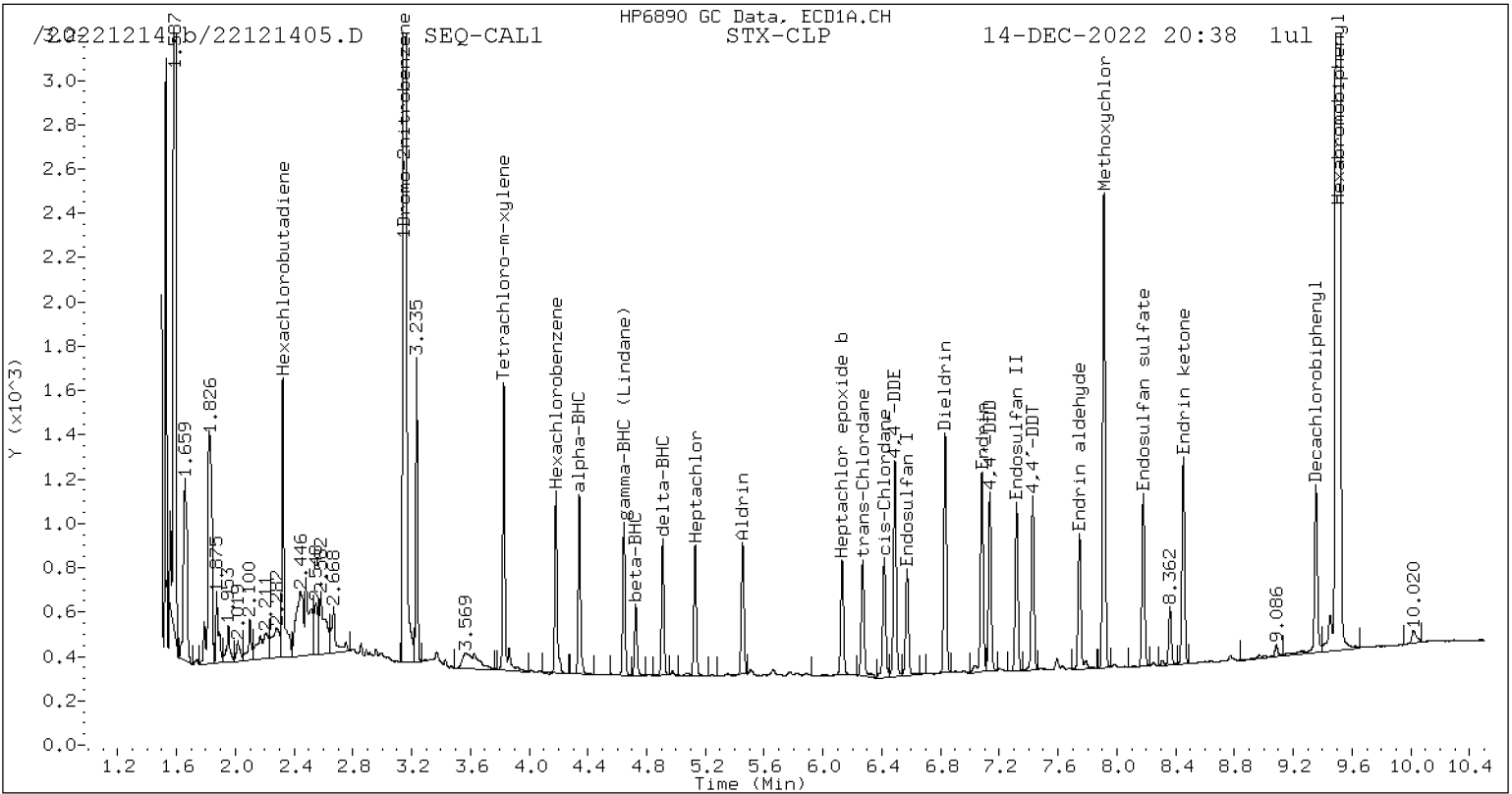
| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 1058848 | 1045524 | -1.3 |
| Hexabromobiphenyl | 797125 | 792558 | -0.6 |

* Standard Areas taken from Initial Cal Level 5

Initial Calibration Date: 14-DEC-2022

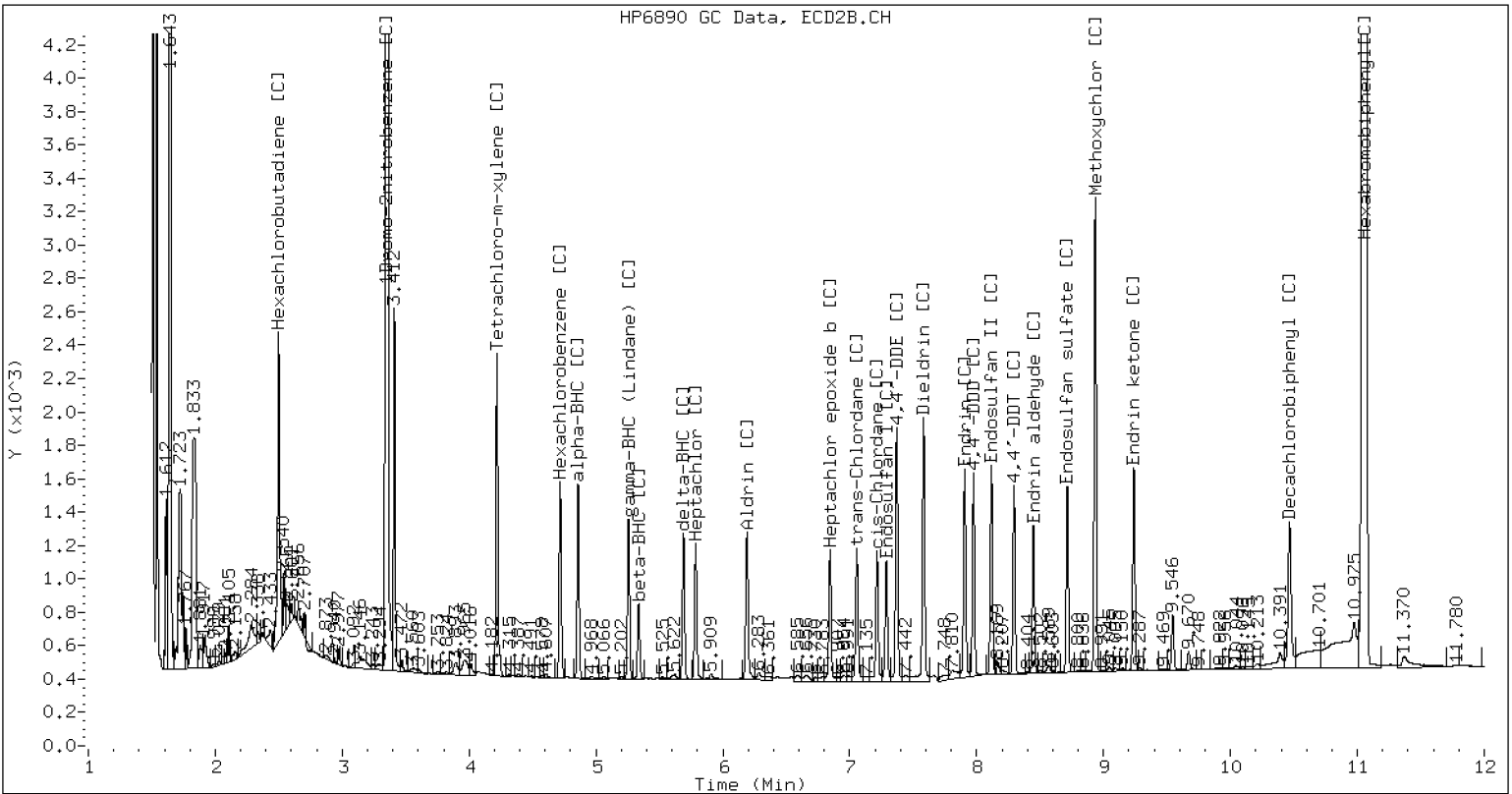
<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20221214.b/B20221214.b/22121405.D SEQ-CAL1 CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121405.D
Data file 2: /20221214.b/B20221214.b/22121405.D
Method: \20221214.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL1
Client ID:
Injection Date: 14-DEC-2022 20:38
Report Date: 12/15/2022 09:09
Units: ng/mL
Dilution Factor: 1.000

| STX-CLP Col | CLP2 Col | STX-CLP | CLP2 | RPD | Compound/Flag | | | | |
|-------------|----------|----------|------|-------|---------------|--------|--------|-----|---------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | RPD | Compound/Flag |

=====

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121406.D
Data file 2: /20221214.b/B20221214.b/22121406.D
Method: \20221214.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL2
Client ID:
Injection Date: 14-DEC-2022 20:56
Report Date: 12/16/2022 15:19
Units: ng/mL
Dilution Factor: 1.000

| RT | STX-CLP Col Shift Response | CLP2 Col Response | RT | CLP2 Col Shift Response | Response | STX-CLP on col | CLP2 on col | RPD | Compound/Flag |
|-------|-------------------------------|----------------------|--------|----------------------------|----------|-------------------|----------------|------|----------------------|
| 4.342 | -0.000 | 35088 | 4.859 | -0.001 | 52514 | 2.54 | 2.47 | 2.9 | alpha-BHC |
| 4.726 | -0.000 | 14580 | 5.337 | -0.000 | 21664 | 2.74 | 2.68 | 2.4 | beta-BHC |
| 4.909 | -0.000 | 28429 | 5.691 | -0.000 | 43932 | 2.52 | 2.51 | 0.5 | delta-BHC |
| 4.645 | 0.000 | 30588 | 5.257 | -0.001 | 44971 | 2.55 | 2.49 | 2.5 | gamma-BHC (Lindane) |
| 5.129 | -0.001 | 28458 | 5.787 | -0.000 | 42156 | 2.67 | 2.58 | 3.6 | Heptachlor |
| 5.453 | -0.001 | 30273 | 6.190 | -0.001 | 50159 | 2.53 | 2.69 | 5.8 | Aldrin |
| 6.130 | -0.001 | 27608 | 6.845 | -0.001 | 43067 | 2.67 | 2.79 | 4.5 | Heptachlor epoxide b |
| 6.572 | -0.000 | 25650 | 7.288 | -0.001 | 37112 | 2.70 | 2.73 | 1.0 | Endosulfan I |
| 6.832 | 0.000 | 54960 | 7.582 | -0.001 | 84296 | 5.38 | 5.60 | 4.0 | Dieldrin |
| 6.489 | -0.000 | 51182 | 7.370 | -0.001 | 74355 | 5.40 | 5.39 | 0.2 | 4,4'-DDE |
| 7.081 | 0.000 | 46577 | 7.906 | -0.001 | 63434 | 5.52 | 5.52 | 0.1 | Endrin |
| 7.317 | 0.001 | 37804 | 8.116 | -0.001 | 65448 | 4.98 | 5.56 | 11.1 | Endosulfan II |
| 7.136 | 0.001 | 40399 | 7.976 | -0.001 | 62302 | 5.32 | 5.58 | 4.8 | 4,4'-DDD |
| 8.179 | -0.001 | 38342 | 8.714 | -0.001 | 57421 | 5.32 | 5.56 | 4.4 | Endosulfan sulfate |
| 7.427 | -0.000 | 40499 | 8.294 | -0.001 | 59346 | 5.27 | 5.51 | 4.3 | 4,4'-DDT |
| 7.912 | -0.000 | 98271 | 8.934 | -0.002 | 130815 | 28.88 | 27.42 | 5.2 | Methoxychlor |
| 8.452 | -0.001 | 45639 | 9.239 | -0.001 | 62360 | 5.53 | 5.59 | 1.1 | Endrin ketone |
| 7.746 | 0.000 | 32847 | 8.447 | -0.001 | 47592 | 5.42 | 5.73 | 5.6 | Endrin aldehyde |
| 6.271 | 0.000 | 28307 | 7.055 | -0.001 | 41633 | 2.69 | 2.70 | 0.4 | trans-Chlordane |
| 6.417 | 0.000 | 29336 | 7.215 | -0.000 | 41766 | 2.78 | 2.77 | 0.3 | cis-Chlordane |
| 2.323 | -0.001 | 44113 | 2.500 | -0.001 | 65565 | 3.05 | 3.24 | 6.2 | Hexachlorobutadiene |
| 4.182 | -0.000 | 35520 | 4.718 | -0.000 | 53173 | 2.77 | 2.75 | 0.9 | Hexachlorobenzene |
| 3.828 | -0.000 | 54873 | 4.220 | -0.001 | 81034 | 5.62 | 5.42 | 3.7 | Tetrachloro-m-xylene |
| 9.354 | -0.001 | 38477 | 10.465 | -0.001 | 54866 | 5.90 | 6.15 | 4.1 | Decachlorobiphenyl |

* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|-----|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 710650 | 717600 | 1.0 |
| Hexabromobiphenyl | 641833 | 643445 | 0.3 |

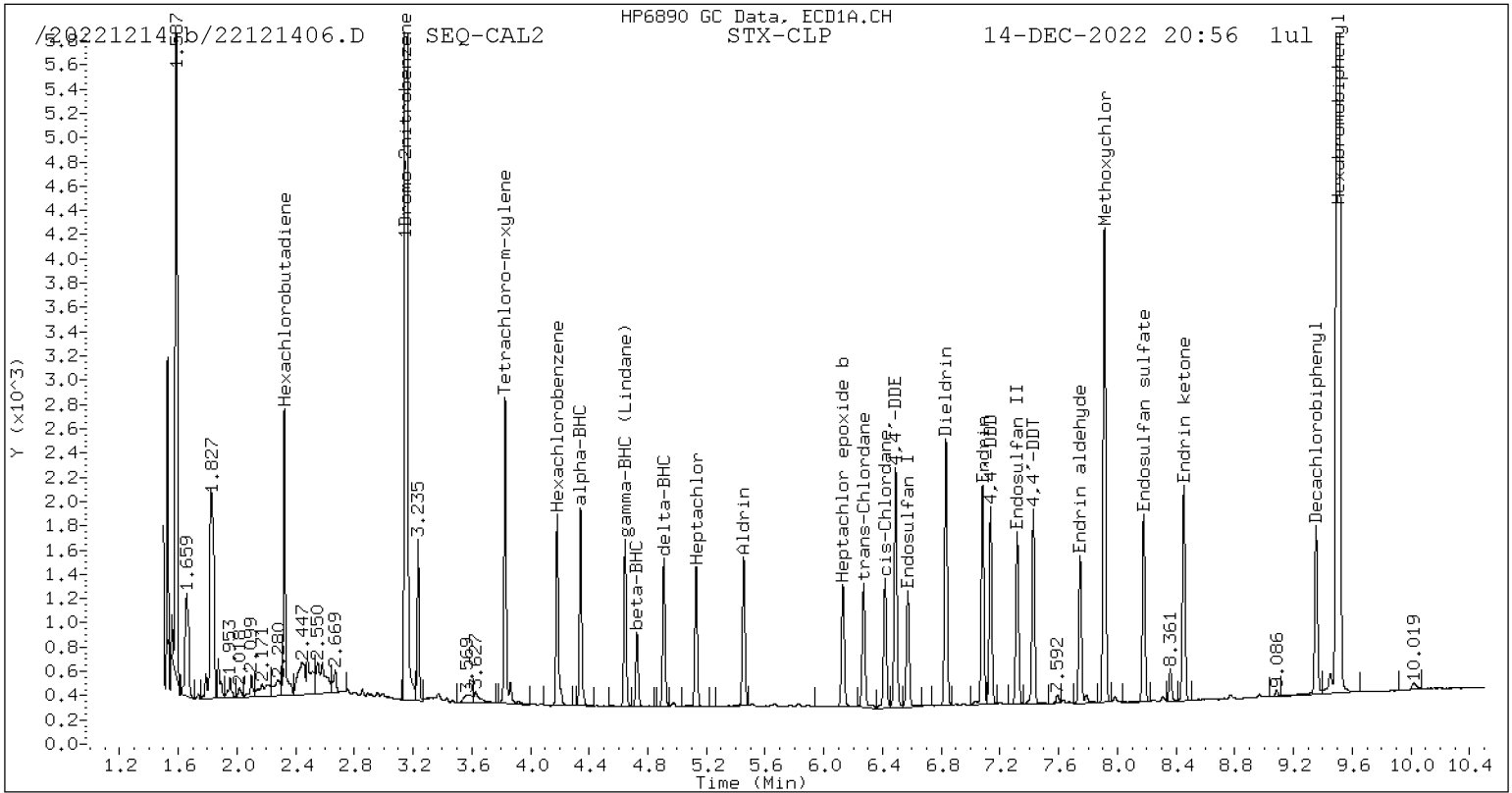
| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|-----|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 1058848 | 1061990 | 0.3 |
| Hexabromobiphenyl | 797125 | 807490 | 1.3 |

* Standard Areas taken from Initial Cal Level 5

Initial Calibration Date: 14-DEC-2022

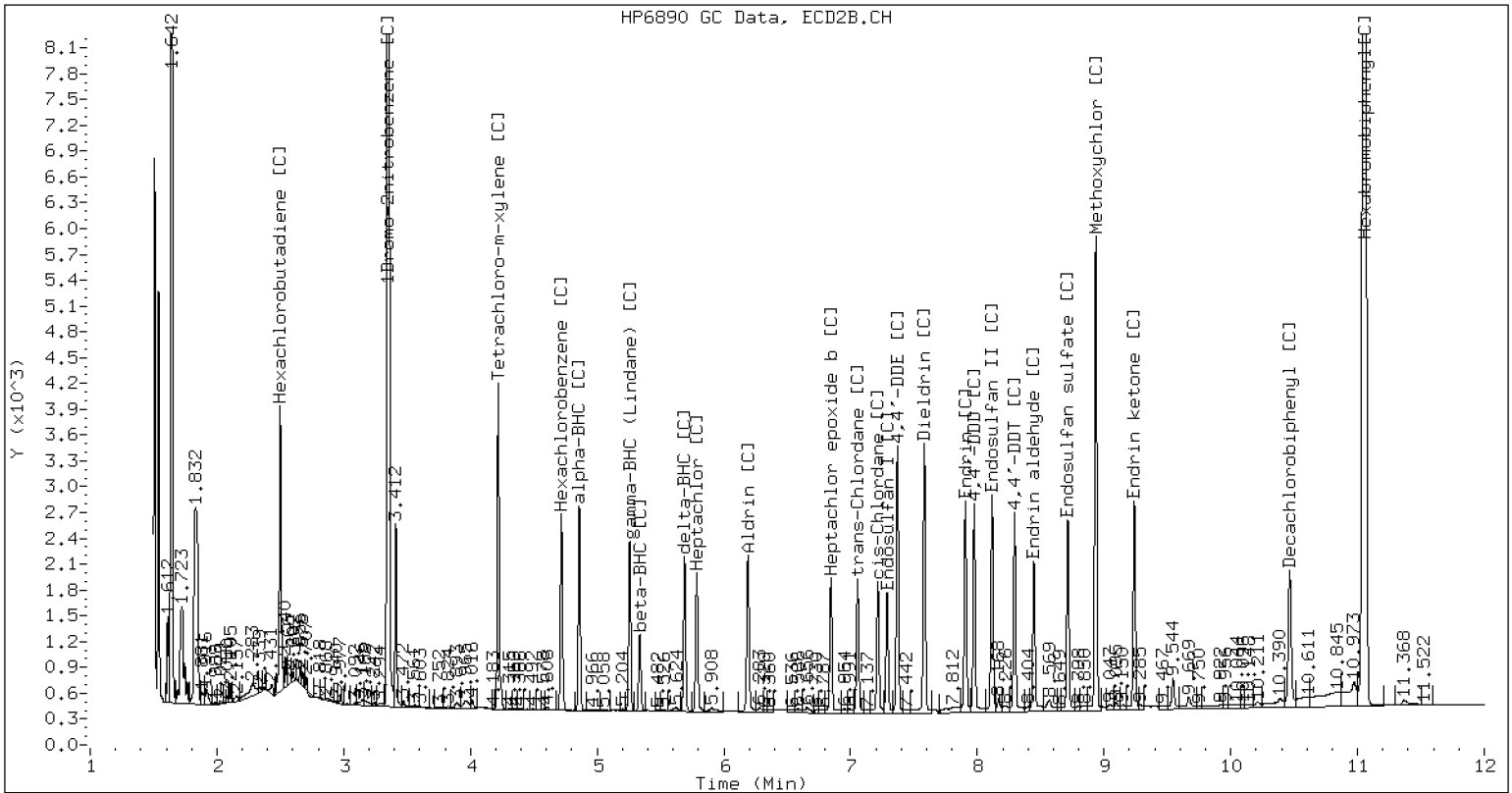
<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20221214.b/B20221214.b/22121406.D SEQ-CAL2 CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121406.D
Data file 2: /20221214.b/B20221214.b/22121406.D
Method: \20221214.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL2
Client ID:
Injection Date: 14-DEC-2022 20:56
Report Date: 12/15/2022 09:09
Units: ng/mL
Dilution Factor: 1.000

| STX-CLP Col | CLP2 Col | STX-CLP | CLP2 | RPD | Compound/Flag | |
|-------------|----------------|---------|----------------|--------|---------------|--|
| RT | Shift Response | RT | Shift Response | on col | on col | |

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Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121407.D
Data file 2: /20221214.b/B20221214.b/22121407.D
Method: \20221214.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL3
Client ID:
Injection Date: 14-DEC-2022 21:14
Report Date: 12/16/2022 15:19
Units: ng/mL
Dilution Factor: 1.000

| RT | STX-CLP Col Shift Response | CLP2 Col Shift Response | RT | CLP2 Shift Response | STX-CLP on col | CLP2 on col | RPD | Compound/Flag | |
|-------|-------------------------------|----------------------------|--------|------------------------|-------------------|----------------|-------|---------------|----------------------|
| 4.343 | 0.001 | 68202 | 4.860 | -0.000 | 103195 | 5.06 | 4.95 | 2.2 | alpha-BHC |
| 4.727 | 0.000 | 26774 | 5.338 | 0.000 | 40159 | 5.16 | 5.06 | 1.8 | beta-BHC |
| 4.910 | 0.001 | 55344 | 5.691 | 0.000 | 85044 | 5.02 | 4.95 | 1.5 | delta-BHC |
| 4.646 | 0.001 | 59491 | 5.258 | 0.000 | 87747 | 5.09 | 4.96 | 2.6 | gamma-BHC (Lindane) |
| 5.130 | 0.000 | 53529 | 5.787 | 0.000 | 80295 | 5.15 | 5.01 | 2.7 | Heptachlor |
| 5.455 | 0.001 | 59061 | 6.191 | 0.000 | 92167 | 5.07 | 5.03 | 0.7 | Aldrin |
| 6.132 | 0.001 | 52071 | 6.845 | -0.000 | 76415 | 5.15 | 5.05 | 2.1 | Heptachlor epoxide b |
| 6.573 | 0.001 | 48052 | 7.289 | -0.000 | 67929 | 5.18 | 5.09 | 1.8 | Endosulfan I |
| 6.832 | 0.001 | 104217 | 7.583 | -0.000 | 151301 | 10.46 | 10.26 | 1.9 | Dieldrin |
| 6.490 | 0.001 | 97042 | 7.371 | 0.000 | 139172 | 10.49 | 10.29 | 1.9 | 4,4'-DDE |
| 7.082 | 0.001 | 87185 | 7.906 | -0.001 | 115830 | 10.66 | 10.37 | 2.8 | Endrin |
| 7.318 | 0.001 | 77341 | 8.117 | 0.000 | 118175 | 10.50 | 10.32 | 1.8 | Endosulfan II |
| 7.136 | 0.001 | 77451 | 7.976 | 0.000 | 110178 | 10.51 | 10.14 | 3.6 | 4,4'-DDD |
| 8.180 | 0.001 | 73440 | 8.715 | 0.000 | 102417 | 10.50 | 10.18 | 3.1 | Endosulfan sulfate |
| 7.428 | 0.001 | 77522 | 8.294 | -0.001 | 105882 | 10.41 | 10.09 | 3.1 | 4,4'-DDT |
| 7.913 | 0.001 | 178164 | 8.935 | -0.001 | 239047 | 53.98 | 51.49 | 4.7 | Methoxychlor |
| 8.454 | 0.000 | 84510 | 9.239 | -0.000 | 110024 | 10.55 | 10.13 | 4.1 | Endrin ketone |
| 7.746 | 0.001 | 61122 | 8.448 | -0.000 | 82817 | 10.40 | 10.25 | 1.5 | Endrin aldehyde |
| 6.271 | 0.001 | 52622 | 7.056 | -0.000 | 76513 | 5.13 | 5.07 | 1.1 | trans-Chlordane |
| 6.417 | 0.001 | 53515 | 7.216 | 0.000 | 75023 | 5.20 | 5.08 | 2.3 | cis-Chlordane |
| 2.324 | -0.000 | 75632 | 2.500 | -0.000 | 107268 | 5.35 | 5.41 | 1.1 | Hexachlorobutadiene |
| 4.183 | 0.001 | 66090 | 4.718 | -0.000 | 98926 | 5.28 | 5.21 | 1.3 | Hexachlorobenzene |
| 3.828 | 0.000 | 101081 | 4.220 | -0.000 | 153451 | 10.61 | 10.47 | 1.3 | Tetrachloro-m-xylene |
| 9.355 | -0.000 | 67797 | 10.466 | -0.000 | 92260 | 10.72 | 10.62 | 0.9 | Decachlorobiphenyl |

* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 710650 | 700354 | -1.4 |
| Hexabromobiphenyl | 641833 | 624108 | -2.8 |

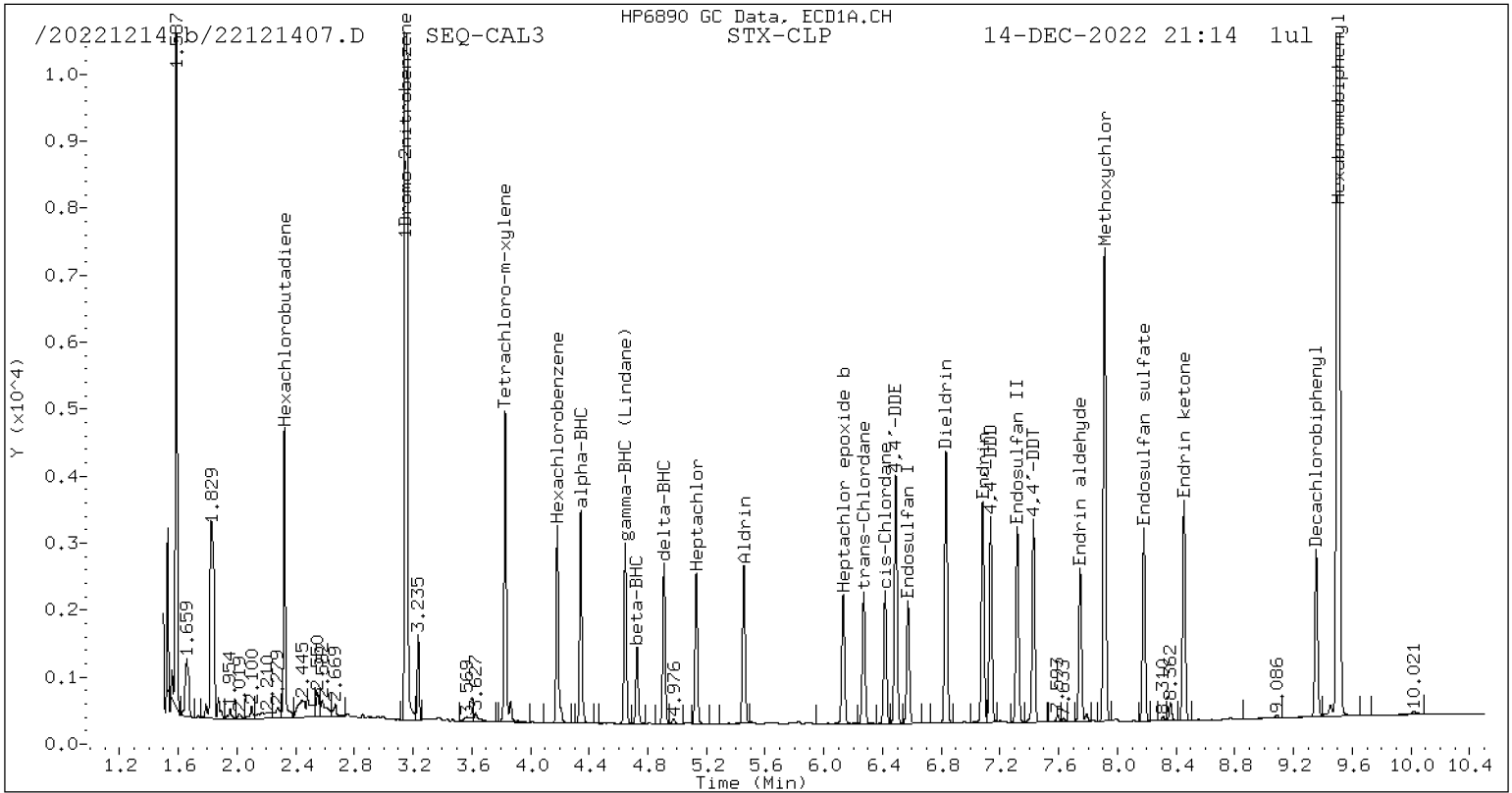
| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 1058848 | 1040903 | -1.7 |
| Hexabromobiphenyl | 797125 | 785894 | -1.4 |

* Standard Areas taken from Initial Cal Level 5

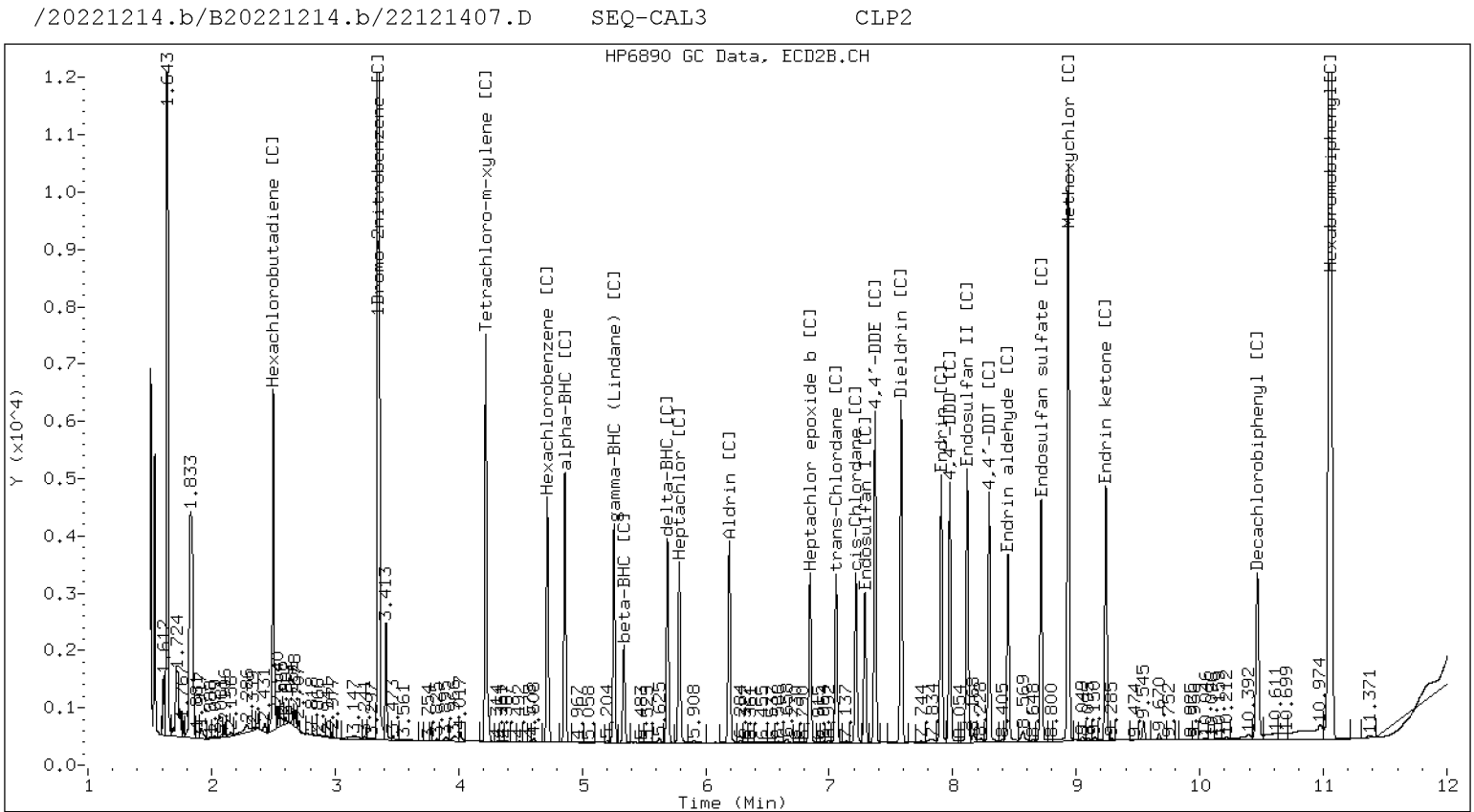
Initial Calibration Date: 14-DEC-2022

<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121407.D
Data file 2: /20221214.b/B20221214.b/22121407.D
Method: \20221214.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL3
Client ID:
Injection Date: 14-DEC-2022 21:14
Report Date: 12/15/2022 09:09
Units: ng/mL
Dilution Factor: 1.000

| STX-CLP Col | CLP2 Col | STX-CLP | CLP2 | RPD | Compound/Flag | | | | |
|-------------|----------|----------|------|-------|---------------|--------|--------|-----|---------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | RPD | Compound/Flag |

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Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121408.D
Data file 2: /20221214.b/B20221214.b/22121408.D
Method: \20221214.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL4
Client ID:
Injection Date: 14-DEC-2022 21:31
Report Date: 12/16/2022 15:19
Units: ng/mL
Dilution Factor: 1.000

| RT | STX-CLP Col Shift Response | CLP2 Col Shift Response | RT | STX-CLP on col | CLP2 on col | RPD | Compound/Flag | | |
|-------|-------------------------------|----------------------------|--------|-------------------|----------------|--------|---------------|-----|----------------------|
| 4.343 | 0.000 | 139784 | 4.860 | -0.000 | 216159 | 10.22 | 10.19 | 0.3 | alpha-BHC |
| 4.726 | 0.000 | 53742 | 5.337 | 0.000 | 81857 | 10.20 | 10.15 | 0.6 | beta-BHC |
| 4.910 | 0.001 | 113586 | 5.691 | 0.000 | 177281 | 10.16 | 10.14 | 0.2 | delta-BHC |
| 4.646 | 0.000 | 121488 | 5.258 | 0.000 | 182844 | 10.24 | 10.15 | 0.9 | gamma-BHC (Lindane) |
| 5.130 | 0.000 | 108260 | 5.787 | -0.000 | 166558 | 10.26 | 10.21 | 0.5 | Heptachlor |
| 5.454 | 0.000 | 124839 | 6.191 | 0.000 | 189618 | 10.55 | 10.18 | 3.6 | Aldrin |
| 6.131 | 0.001 | 107301 | 6.846 | 0.001 | 155424 | 10.46 | 10.09 | 3.6 | Heptachlor epoxide b |
| 6.573 | 0.000 | 97151 | 7.289 | 0.000 | 137043 | 10.32 | 10.10 | 2.2 | Endosulfan I |
| 6.832 | 0.001 | 210564 | 7.583 | 0.000 | 301602 | 20.82 | 20.11 | 3.5 | Dieldrin |
| 6.490 | 0.001 | 195139 | 7.371 | 0.000 | 281756 | 20.79 | 20.49 | 1.5 | 4,4'-DDE |
| 7.082 | 0.001 | 173216 | 7.907 | -0.000 | 231062 | 20.59 | 20.39 | 1.0 | Endrin |
| 7.318 | 0.001 | 161303 | 8.117 | 0.001 | 236844 | 21.29 | 20.39 | 4.4 | Endosulfan II |
| 7.136 | 0.001 | 157301 | 7.977 | 0.001 | 222755 | 20.75 | 20.21 | 2.7 | 4,4'-DDD |
| 8.180 | 0.000 | 146955 | 8.715 | 0.000 | 205334 | 20.43 | 20.13 | 1.5 | Endosulfan sulfate |
| 7.428 | 0.001 | 156744 | 8.295 | -0.000 | 212755 | 20.46 | 19.99 | 2.3 | 4,4'-DDT |
| 7.912 | 0.001 | 344324 | 8.936 | -0.001 | 473459 | 101.43 | 100.55 | 0.9 | Methoxychlor |
| 8.453 | -0.000 | 167384 | 9.240 | 0.000 | 222080 | 20.31 | 20.15 | 0.8 | Endrin ketone |
| 7.746 | 0.000 | 123653 | 8.448 | 0.000 | 164391 | 20.47 | 20.06 | 2.0 | Endrin aldehyde |
| 6.271 | 0.001 | 106805 | 7.056 | 0.000 | 154174 | 10.25 | 10.04 | 2.1 | trans-Chlordane |
| 6.418 | 0.001 | 106651 | 7.216 | 0.001 | 150231 | 10.21 | 10.00 | 2.1 | cis-Chlordane |
| 2.323 | -0.000 | 142895 | 2.500 | -0.001 | 197539 | 9.97 | 9.80 | 1.7 | Hexachlorobutadiene |
| 4.183 | 0.000 | 130020 | 4.718 | 0.000 | 197396 | 10.24 | 10.22 | 0.1 | Hexachlorobenzene |
| 3.828 | 0.000 | 199446 | 4.220 | -0.000 | 308345 | 20.64 | 20.69 | 0.2 | Tetrachloro-m-xylene |
| 9.355 | 0.000 | 130210 | 10.466 | -0.000 | 170633 | 20.02 | 19.37 | 3.3 | Decachlorobiphenyl |

* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|-----|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 710650 | 710650 | 0.0 |
| Hexabromobiphenyl | 641833 | 641833 | 0.0 |

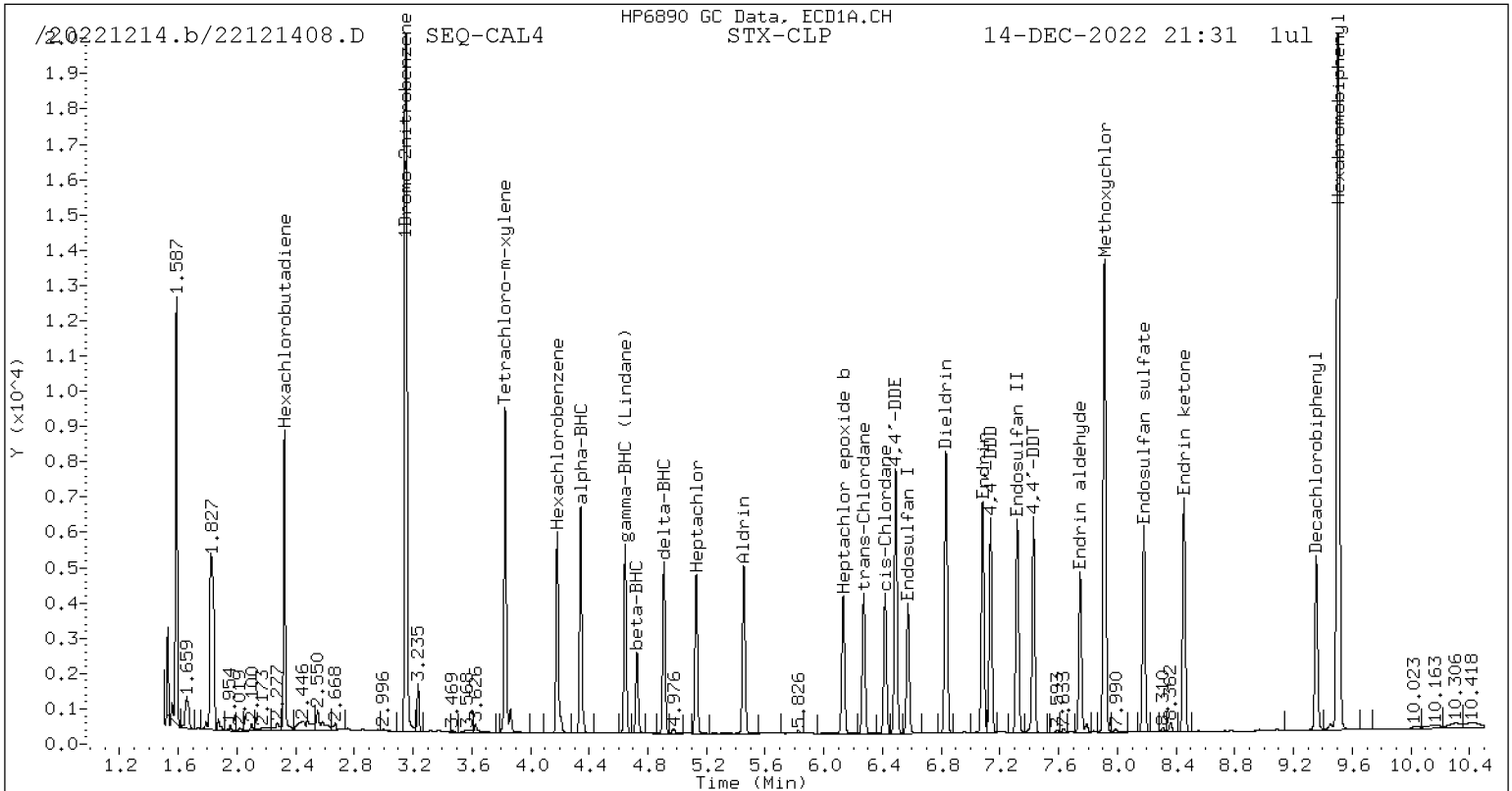
| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|-----|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 1058848 | 1058848 | 0.0 |
| Hexabromobiphenyl | 797125 | 797125 | 0.0 |

* Standard Areas taken from Initial Cal Level 5

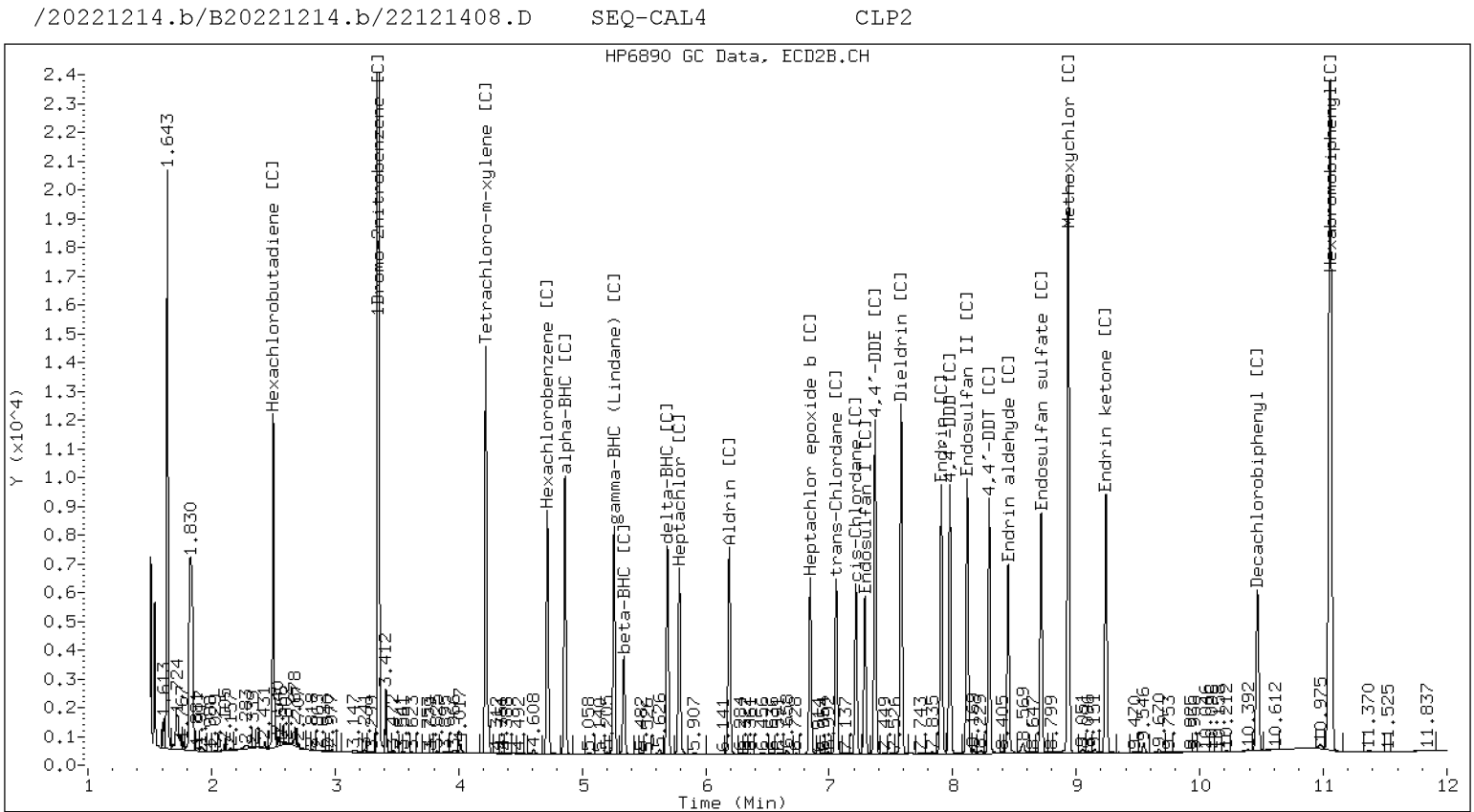
Initial Calibration Date: 14-DEC-2022

<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121408.D
Data file 2: /20221214.b/B20221214.b/22121408.D
Method: \20221214.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL4
Client ID:
Injection Date: 14-DEC-2022 21:31
Report Date: 12/15/2022 09:09
Units: ng/mL
Dilution Factor: 1.000

| STX-CLP Col | CLP2 Col | STX-CLP | CLP2 | RPD | Compound/Flag | | | | |
|-------------|----------|----------|------|-------|---------------|--------|--------|-----|---------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | RPD | Compound/Flag |

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Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121409.D
Data file 2: /20221214.b/B20221214.b/22121409.D
Method: \20221214.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL5
Client ID:
Injection Date: 14-DEC-2022 21:49
Report Date: 12/16/2022 15:30
Units: ng/mL
Dilution Factor: 1.000

| RT | STX-CLP Col Shift Response | CLP2 Col Shift Response | RT | CLP2 Shift Response | STX-CLP on col | CLP2 on col | RPD | Compound/Flag | |
|-------|-------------------------------|----------------------------|--------|------------------------|-------------------|----------------|--------|---------------|----------------------|
| 4.342 | 0.000 | 263355 | 4.860 | -0.001 | 412780 | 20.34 | 20.46 | 0.6 | alpha-BHC |
| 4.726 | 0.000 | 99355 | 5.337 | -0.000 | 154138 | 19.93 | 20.10 | 0.8 | beta-BHC |
| 4.909 | 0.000 | 216224 | 5.690 | -0.000 | 334261 | 20.44 | 20.12 | 1.6 | delta-BHC |
| 4.645 | 0.000 | 228274 | 5.258 | -0.000 | 350450 | 20.34 | 20.47 | 0.7 | gamma-BHC (Lindane) |
| 5.130 | 0.000 | 203067 | 5.787 | -0.000 | 320123 | 20.33 | 20.64 | 1.5 | Heptachlor |
| 5.454 | 0.000 | 230734 | 6.191 | -0.000 | 359912 | 20.62 | 20.33 | 1.4 | Aldrin |
| 6.130 | 0.000 | 198033 | 6.845 | -0.000 | 295580 | 20.41 | 20.19 | 1.1 | Heptachlor epoxide b |
| 6.572 | 0.000 | 180905 | 7.289 | -0.000 | 260351 | 20.31 | 20.18 | 0.7 | Endosulfan I |
| 6.831 | 0.000 | 388583 | 7.582 | -0.000 | 571731 | 40.61 | 40.10 | 1.3 | Dieldrin |
| 6.489 | 0.000 | 362177 | 7.370 | -0.000 | 531128 | 40.77 | 40.63 | 0.4 | 4,4'-DDE |
| 7.081 | 0.000 | 323576 | 7.907 | -0.000 | 442460 | 40.48 | 40.43 | 0.1 | Endrin |
| 7.317 | 0.000 | 282010 | 8.117 | -0.000 | 446656 | 39.19 | 39.81 | 1.6 | Endosulfan II |
| 7.135 | 0.000 | 292251 | 7.976 | -0.000 | 427990 | 40.58 | 40.20 | 0.9 | 4,4'-DDD |
| 8.180 | 0.000 | 276113 | 8.715 | 0.000 | 393743 | 40.41 | 39.97 | 1.1 | Endosulfan sulfate |
| 7.427 | 0.000 | 296413 | 8.295 | -0.000 | 413083 | 40.73 | 40.20 | 1.3 | 4,4'-DDT |
| 7.912 | 0.000 | 628619 | 8.935 | -0.001 | 900958 | 194.94 | 198.14 | 1.6 | Methoxychlor |
| 8.453 | 0.000 | 311305 | 9.239 | -0.000 | 423698 | 39.77 | 39.82 | 0.1 | Endrin ketone |
| 7.746 | 0.000 | 230881 | 8.448 | 0.000 | 312907 | 40.23 | 39.54 | 1.7 | Endrin aldehyde |
| 6.271 | 0.000 | 200151 | 7.056 | -0.000 | 294106 | 20.31 | 20.15 | 0.8 | trans-Chlordane |
| 6.417 | 0.000 | 197892 | 7.216 | -0.000 | 285904 | 20.02 | 20.02 | 0.0 | cis-Chlordane |
| 2.324 | 0.000 | 260716 | 2.500 | -0.000 | 346254 | 19.22 | 18.08 | 6.2 | Hexachlorobutadiene |
| 4.182 | 0.000 | 237746 | 4.718 | -0.000 | 364913 | 19.78 | 19.88 | 0.5 | Hexachlorobenzene |
| 3.828 | 0.000 | 357836 | 4.220 | -0.000 | 567647 | 39.13 | 40.07 | 2.4 | Tetrachloro-m-xylene |
| 9.355 | 0.000 | 239428 | 10.466 | -0.001 | 327134 | 38.76 | 38.45 | 0.8 | Decachlorobiphenyl |

* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|-----|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 672426 | 672426 | 0.0 |
| Hexabromobiphenyl | 609723 | 609723 | 0.0 |

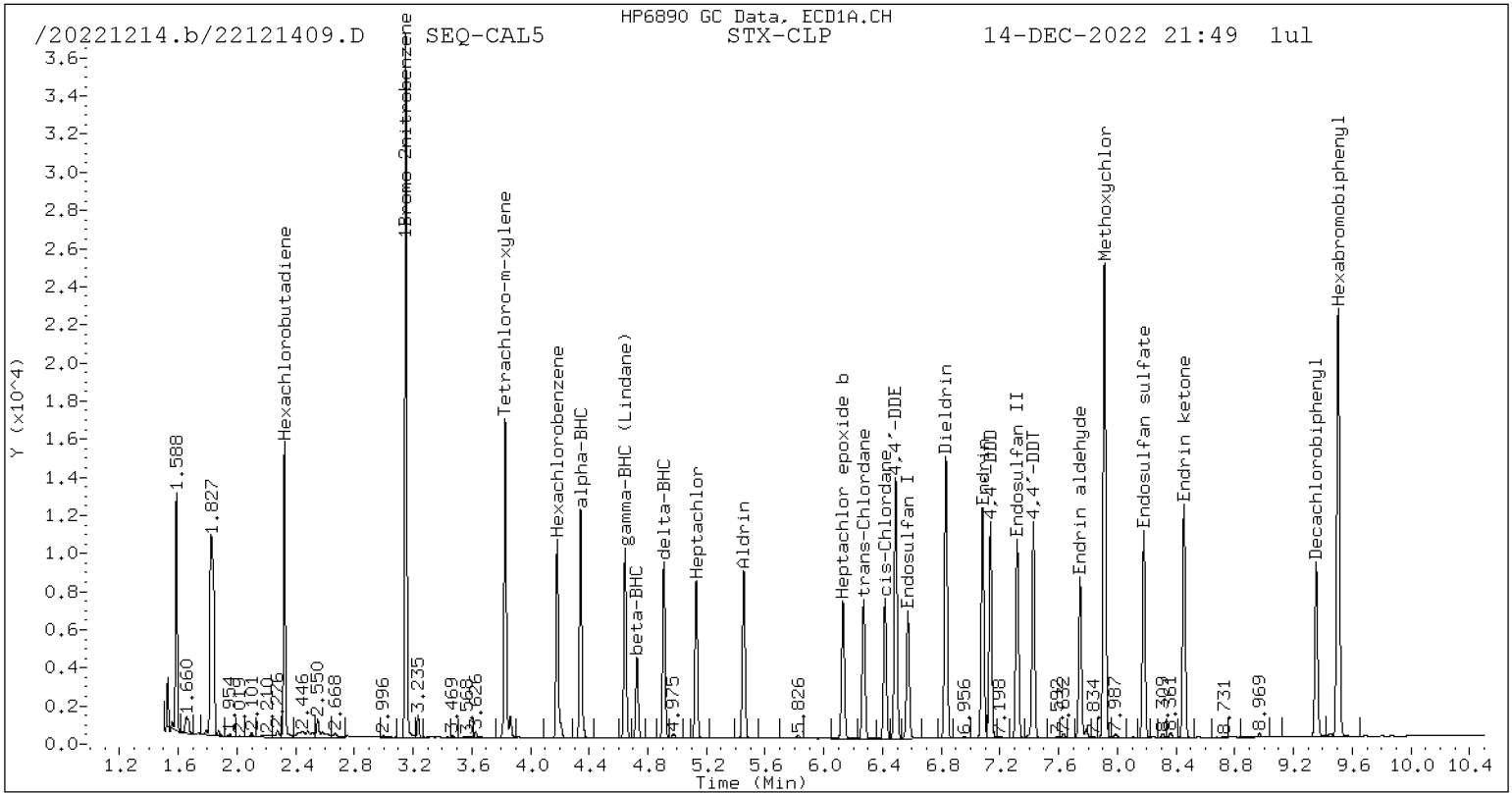
| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|-----|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 1006482 | 1006482 | 0.0 |
| Hexabromobiphenyl | 769764 | 769764 | 0.0 |

* Standard Areas taken from Initial Cal Level 5

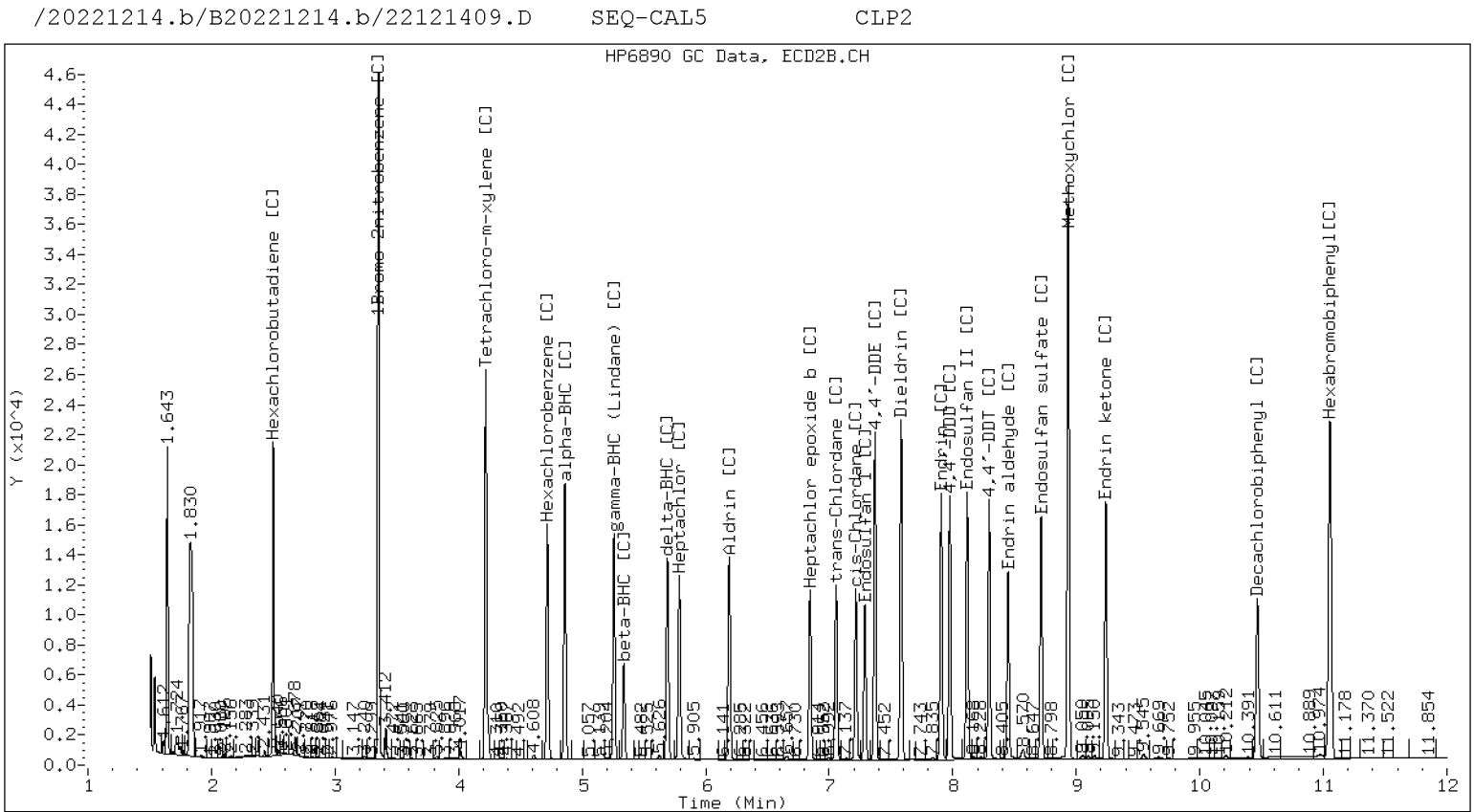
Initial Calibration Date: 14-DEC-2022

<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121409.D
Data file 2: /20221214.b/B20221214.b/22121409.D
Method: \20221214.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL5
Client ID:
Injection Date: 14-DEC-2022 21:49
Report Date: 12/15/2022 09:09
Units: ng/mL
Dilution Factor: 1.000

| STX-CLP Col | CLP2 Col | STX-CLP | CLP2 | RPD | Compound/Flag | |
|-------------|----------------|---------|----------------|--------|---------------|--|
| RT | Shift Response | RT | Shift Response | on col | on col | |

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Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121410.D
Data file 2: /20221214.b/B20221214.b/22121410.D
Method: \20221214.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL6
Client ID:
Injection Date: 14-DEC-2022 22:07
Report Date: 12/16/2022 15:19
Units: ng/mL
Dilution Factor: 1.000

| RT | STX-CLP Col Shift Response | CLP2 Col Shift Response | RT | CLP2 Col Shift Response | STX-CLP on col | CLP2 on col | RPD | Compound/Flag | |
|-------|----------------------------|-------------------------|--------|-------------------------|----------------|-------------|--------|---------------|----------------------|
| 4.342 | 0.000 | 535902 | 4.860 | -0.000 | 849533 | 39.69 | 40.30 | 1.5 | alpha-BHC |
| 4.726 | 0.000 | 198976 | 5.337 | -0.000 | 311218 | 38.28 | 38.84 | 1.4 | beta-BHC |
| 4.910 | 0.000 | 440370 | 5.691 | 0.000 | 700464 | 39.91 | 40.34 | 1.1 | delta-BHC |
| 4.646 | 0.000 | 461905 | 5.258 | 0.000 | 718675 | 39.46 | 40.18 | 1.8 | gamma-BHC (Lindane) |
| 5.130 | 0.000 | 401672 | 5.787 | 0.000 | 639345 | 38.56 | 39.46 | 2.3 | Heptachlor |
| 5.454 | 0.000 | 458396 | 6.190 | -0.000 | 720942 | 39.27 | 38.97 | 0.8 | Aldrin |
| 6.130 | 0.000 | 387273 | 6.846 | 0.000 | 586062 | 38.26 | 38.31 | 0.1 | Heptachlor epoxide b |
| 6.572 | -0.000 | 354629 | 7.288 | -0.001 | 519836 | 38.18 | 38.55 | 1.0 | Endosulfan I |
| 6.832 | 0.000 | 755708 | 7.582 | -0.000 | 1126850 | 75.73 | 75.64 | 0.1 | Dieldrin |
| 6.489 | 0.000 | 698620 | 7.371 | -0.000 | 1040947 | 75.40 | 76.19 | 1.0 | 4,4'-DDE |
| 7.082 | 0.000 | 615481 | 7.907 | -0.000 | 858461 | 74.19 | 74.98 | 1.1 | Endrin |
| 7.317 | 0.000 | 590923 | 8.117 | -0.000 | 885035 | 79.12 | 75.41 | 4.8 | Endosulfan II |
| 7.136 | 0.000 | 565557 | 7.976 | -0.000 | 842536 | 75.67 | 75.65 | 0.0 | 4,4'-DDD |
| 8.179 | -0.001 | 540557 | 8.715 | 0.000 | 782860 | 76.22 | 75.96 | 0.3 | Endosulfan sulfate |
| 7.427 | 0.000 | 577337 | 8.295 | -0.000 | 820861 | 76.44 | 76.36 | 0.1 | 4,4'-DDT |
| 7.912 | -0.000 | 1204040 | 8.935 | -0.001 | 1785262 | 359.75 | 375.30 | 4.2 | Methoxychlor |
| 8.453 | -0.001 | 610387 | 9.239 | -0.000 | 843646 | 75.13 | 75.79 | 0.9 | Endrin ketone |
| 7.746 | -0.000 | 452325 | 8.448 | 0.000 | 622287 | 75.93 | 75.17 | 1.0 | Endrin aldehyde |
| 6.271 | 0.000 | 395598 | 7.056 | -0.000 | 591899 | 38.48 | 38.80 | 0.8 | trans-Chlordane |
| 6.417 | 0.001 | 389712 | 7.215 | -0.000 | 573103 | 37.80 | 38.40 | 1.6 | cis-Chlordane |
| 2.324 | 0.000 | 511265 | 2.500 | -0.000 | 705320 | 36.14 | 35.24 | 2.5 | Hexachlorobutadiene |
| 4.183 | 0.001 | 472841 | 4.718 | 0.000 | 728846 | 37.72 | 37.99 | 0.7 | Hexachlorobenzene |
| 3.828 | -0.000 | 714634 | 4.221 | 0.000 | 1124106 | 74.93 | 75.93 | 1.3 | Tetrachloro-m-xylene |
| 9.355 | -0.000 | 468280 | 10.466 | -0.001 | 645336 | 73.03 | 72.51 | 0.7 | Decachlorobiphenyl |

* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 710650 | 701342 | -1.3 |
| Hexabromobiphenyl | 641833 | 632821 | -1.4 |

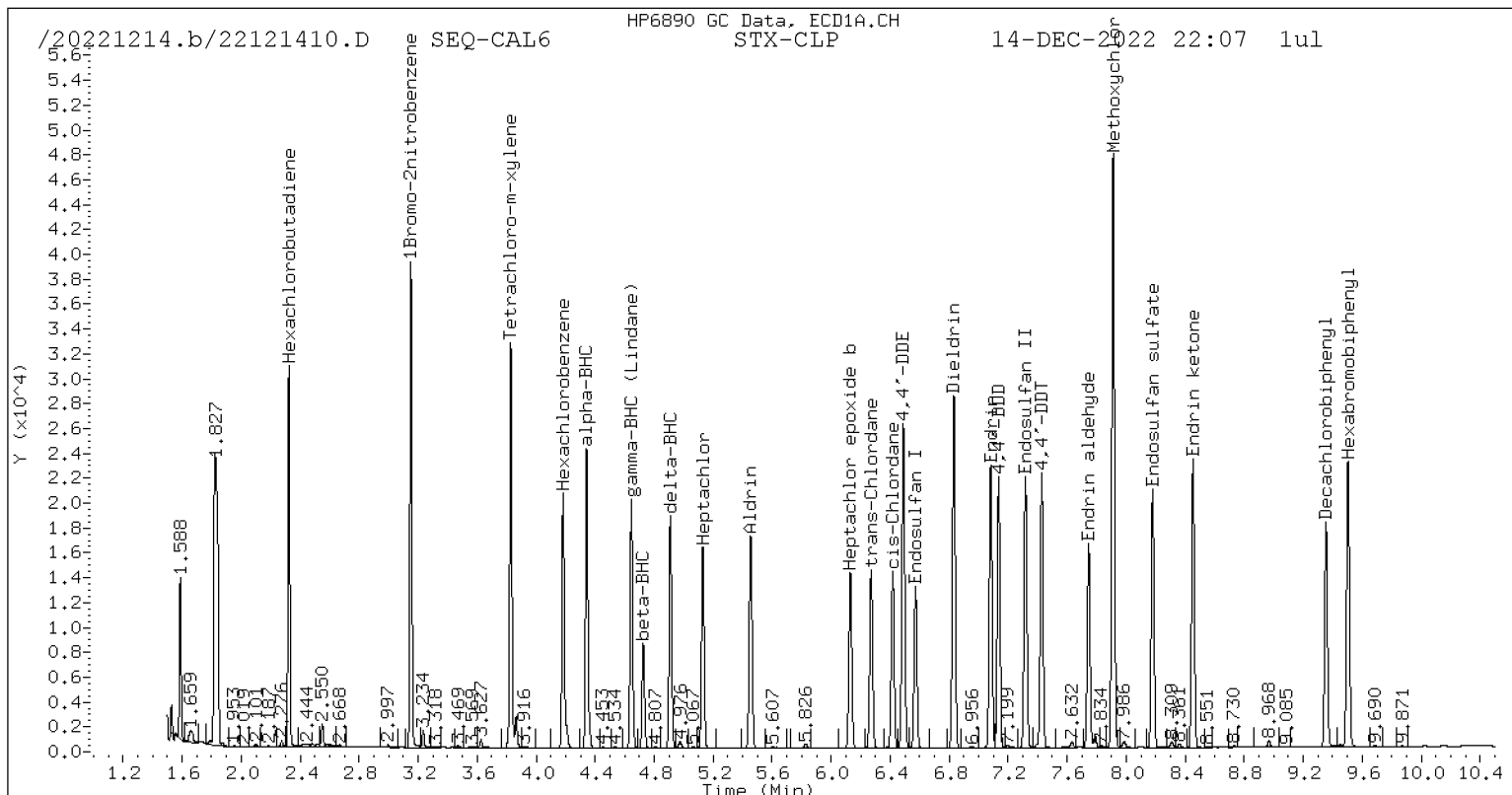
| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 1058848 | 1051766 | -0.7 |
| Hexabromobiphenyl | 797125 | 805268 | 1.0 |

* Standard Areas taken from Initial Cal Level 5

Initial Calibration Date: 14-DEC-2022

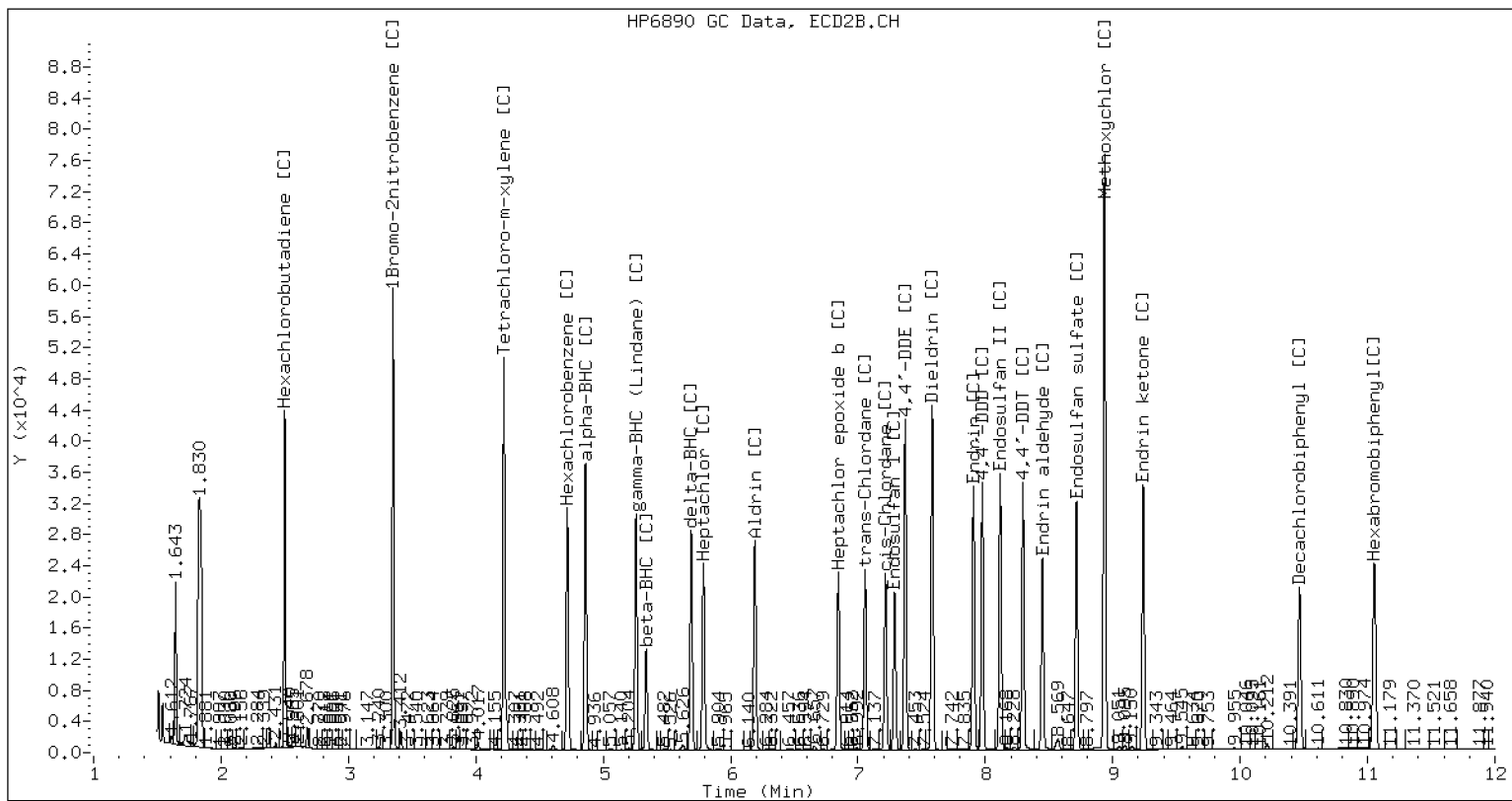
<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20221214.b/B20221214.b/22121410.D SEQ-CAL6 CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121410.D
Data file 2: /20221214.b/B20221214.b/22121410.D
Method: \20221214.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL6
Client ID:
Injection Date: 14-DEC-2022 22:07
Report Date: 12/15/2022 09:09
Units: ng/mL
Dilution Factor: 1.000

| STX-CLP Col | CLP2 Col | STX-CLP | CLP2 | RPD | Compound/Flag | | | | |
|-------------|----------|----------|------|-------|---------------|--------|--------|-----|---------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | RPD | Compound/Flag |

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Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121411.D
Data file 2: /20221214.b/B20221214.b/22121411.D
Method: \20221214.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL7
Client ID:
Injection Date: 14-DEC-2022 22:25
Report Date: 12/16/2022 15:19
Units: ng/mL
Dilution Factor: 1.000

| RT | STX-CLP Col Shift Response | CLP2 Col Shift Response | STX-CLP on col | CLP2 on col | RPD | Compound/Flag |
|-------|----------------------------|-------------------------|----------------|-------------|---------|--|
| 4.342 | 0.000 | 1012605 | 4.861 | 0.000 | 1623058 | 75.30 77.94 3.4 alpha-BHC |
| 4.726 | 0.000 | 371916 | 5.337 | 0.000 | 586390 | 71.84 74.06 3.1 beta-BHC |
| 4.910 | 0.000 | 837966 | 5.691 | 0.000 | 1343533 | 76.25 78.32 2.7 delta-BHC |
| 4.645 | -0.000 | 870454 | 5.258 | 0.000 | 1370551 | 74.66 77.55 3.8 gamma-BHC (Lindane) |
| 5.130 | 0.000 | 743802 | 5.787 | 0.000 | 1188915 | 71.70 74.26 3.5 Heptachlor |
| 5.454 | 0.000 | 841598 | 6.191 | 0.000 | 1331430 | 72.39 72.84 0.6 Aldrin |
| 6.130 | -0.000 | 709774 | 6.845 | 0.000 | 1087105 | 70.41 71.92 2.1 Heptachlor epoxide b |
| 6.573 | 0.000 | 652702 | 7.289 | 0.000 | 969098 | 70.56 72.74 3.1 Endosulfan I |
| 6.832 | 0.000 | 1390496 | 7.583 | 0.000 | 2118555 | 139.91 143.93 2.8 Dieldrin |
| 6.490 | 0.001 | 1284777 | 7.371 | 0.000 | 1944530 | 139.23 144.06 3.4 4,4'-DDE |
| 7.082 | 0.001 | 1132487 | 7.907 | 0.000 | 1618631 | 137.86 142.60 3.4 Endrin |
| 7.317 | 0.000 | 1089554 | 8.117 | 0.000 | 1672946 | 147.33 143.79 2.4 Endosulfan II |
| 7.135 | 0.000 | 1051958 | 7.976 | 0.000 | 1606815 | 142.14 145.53 2.4 4,4'-DDD |
| 8.180 | 0.000 | 1013288 | 8.715 | 0.000 | 1496440 | 144.30 146.47 1.5 Endosulfan sulfate |
| 7.428 | 0.001 | 1086138 | 8.295 | 0.000 | 1586078 | 145.23 148.84 2.5 4,4'-DDT |
| 7.912 | 0.001 | 2325261 | 8.936 | 0.000 | 3541650 | 701.64 751.02 6.8 Methoxychlor |
| 8.454 | 0.000 | 1146784 | 9.240 | 0.000 | 1623077 | 142.56 147.08 3.1 Endrin ketone |
| 7.746 | -0.000 | 846477 | 8.448 | 0.000 | 1178353 | 143.51 143.57 0.0 Endrin aldehyde |
| 6.271 | 0.000 | 733514 | 7.056 | 0.000 | 1114685 | 71.64 73.95 3.2 trans-Chlordane |
| 6.417 | 0.001 | 723886 | 7.216 | 0.000 | 1079255 | 70.50 73.19 3.7 cis-Chlordane |
| 2.324 | 0.000 | 955982 | 2.501 | 0.000 | 1351745 | 67.86 68.35 0.7 Hexachlorobutadiene |
| 4.182 | 0.000 | 879573 | 4.718 | 0.000 | 1355289 | 70.45 71.51 1.5 Hexachlorobenzene |
| 3.828 | 0.000 | 1318381 | 4.220 | 0.000 | 2067539 | 138.79 141.35 1.8 Tetrachloro-m-xylene |
| 9.356 | 0.000 | 878340 | 10.467 | 0.000 | 1231298 | 138.34 139.55 0.9 Decachlorobiphenyl |

* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 710650 | 698499 | -1.7 |
| Hexabromobiphenyl | 641833 | 626605 | -2.4 |

| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 1058848 | 1039154 | -1.9 |
| Hexabromobiphenyl | 797125 | 798313 | 0.1 |

* Standard Areas taken from Initial Cal Level 5

Initial Calibration Date: 14-DEC-2022

<- Indicates standard response outside Limits (-50 to +100%)

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121411.D
Data file 2: /20221214.b/B20221214.b/22121411.D
Method: \20221214.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL7
Client ID:
Injection Date: 14-DEC-2022 22:25
Report Date: 12/15/2022 09:09
Units: ng/mL
Dilution Factor: 1.000

| STX-CLP Col | CLP2 Col | STX-CLP | CLP2 | RPD | Compound/Flag | | | | |
|-------------|----------|----------|------|-------|---------------|--------|--------|-----|---------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | RPD | Compound/Flag |

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Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121412.D
 Data file 2: /20221214.b/B20221214.b/22121412.D
 Method: \20221214.b\PEST.m
 Compound Sublist: WND.sub
 Instrument, Inj. Vol.: ecd6.i, 1ul
 Operator: JGR

ARI ID: SEQ-CAL8
 Client ID:
 Injection Date: 14-DEC-2022 22:43
 Report Date: 12/16/2022 15:19
 Units: ng/mL
 Dilution Factor: 1.000

| RT | STX-CLP Col Shift Response | CLP2 Col Shift Response | RT | CLP2 Col Shift Response | STX-CLP on col | CLP2 on col | RPD | Compound/Flag | |
|-------|-------------------------------|----------------------------|-------|----------------------------|-------------------|----------------|------|---------------|----------------------|
| 6.014 | -0.000 | 22184 | 6.741 | -0.000 | 34211 | 2.89 | 2.85 | 1.2 | Oxychlorane |
| 6.106 | -0.000 | 18661 | 7.036 | -0.000 | 30817 | 2.94 | 3.14 | 6.5 | 2,4-DDE |
| 6.397 | -0.000 | 30616 | 7.154 | -0.001 | 41466 | 3.05 | 2.82 | 7.5 | trans-Nonachlor |
| 6.681 | 0.000 | 16263 | 7.591 | 0.000 | 26177 | 2.88 | 3.12 | 7.9 | 2,4-DDD |
| 6.956 | -0.001 | 17569 | 7.913 | -0.000 | 24398 | 2.88 | 2.82 | 2.1 | 2,4-DDT |
| 7.112 | -0.000 | 29417 | 7.975 | -0.000 | 37972 | 3.01 | 2.72 | 9.9 | cis-Nonachlor |
| 8.082 | -0.000 | 18819 | 9.223 | -0.000 | 24312 | 3.09 | 3.00 | 3.1 | Mirex |
| ---- | | | ---- | | | 0.00 | 0.00 | --- | Tetrachloro-m-xylene |
| ---- | | | ---- | | | 0.00 | 0.00 | --- | Decachlorobiphenyl |

* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|-----|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 710650 | 713898 | 0.5 |
| Hexabromobiphenyl | 641833 | 646441 | 0.7 |

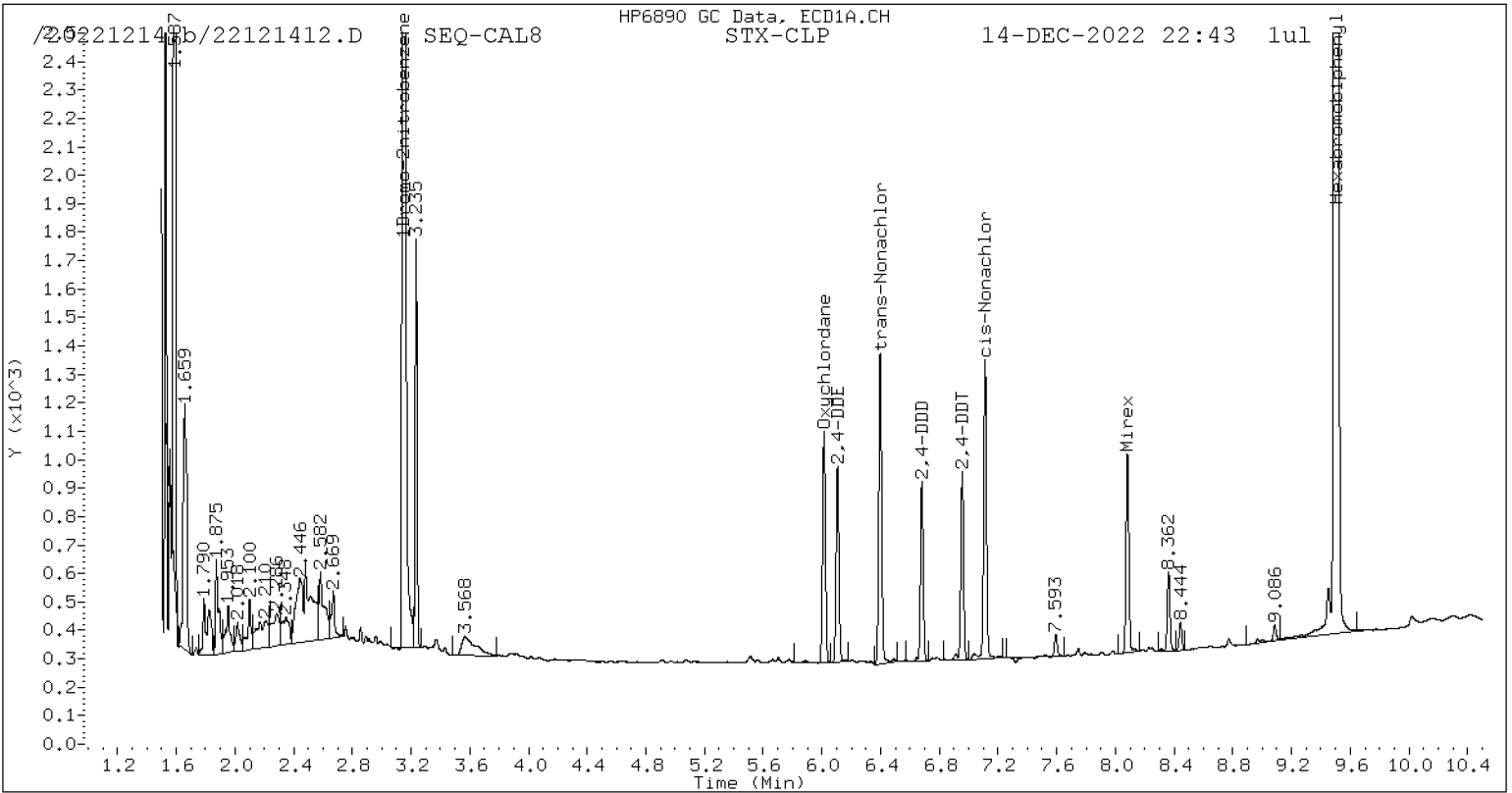
| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|-----|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 1058848 | 1076864 | 1.7 |
| Hexabromobiphenyl | 797125 | 820275 | 2.9 |

* Standard Areas taken from Initial Cal Level 5

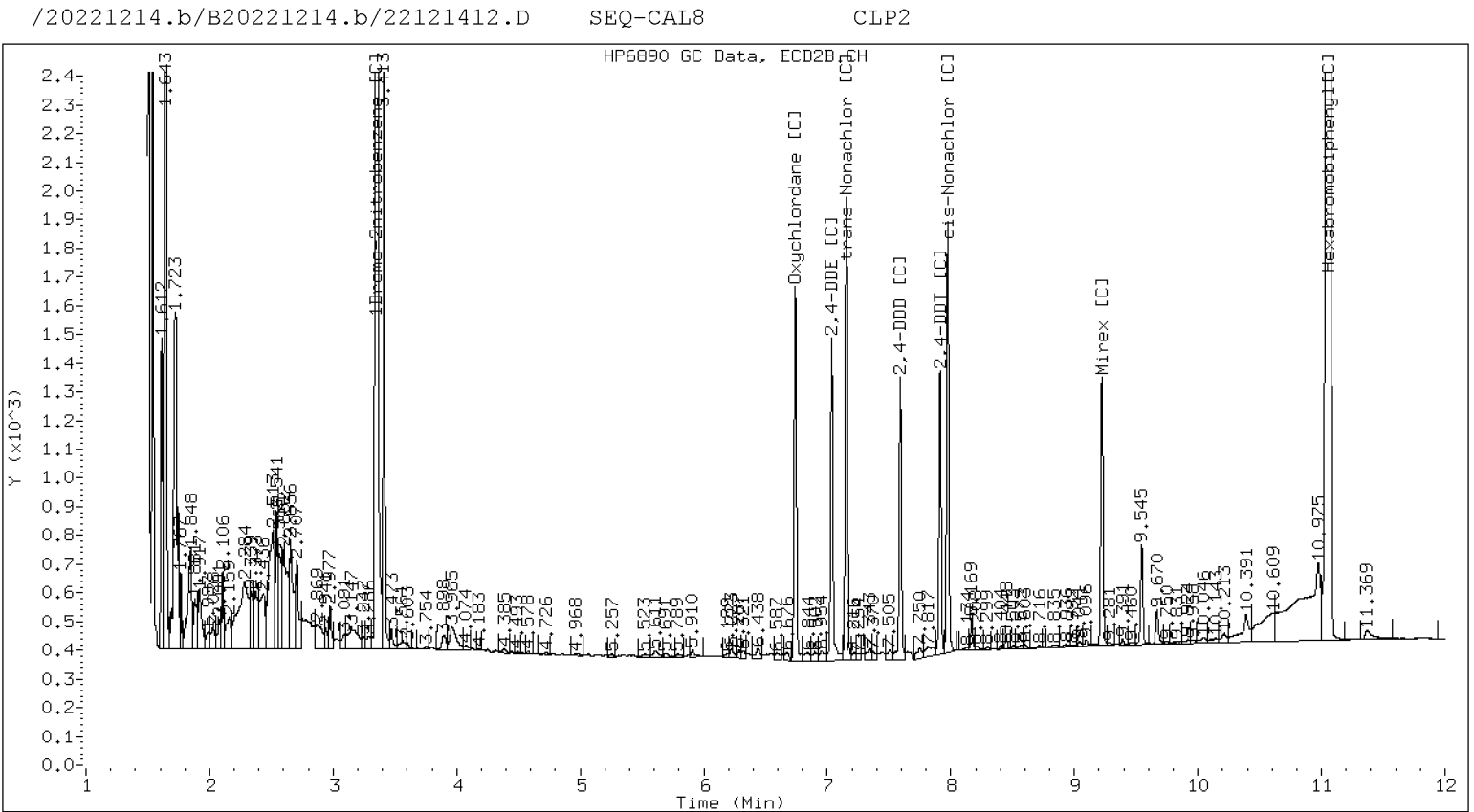
Initial Calibration Date: 14-DEC-2022

<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO



Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121412.D
Data file 2: /20221214.b/B20221214.b/22121412.D
Method: \20221214.b\PEST.m
Compound Sublist: WND.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL8
Client ID:
Injection Date: 14-DEC-2022 22:43
Report Date: 12/15/2022 09:09
Units: ng/mL
Dilution Factor: 1.000

| STX-CLP Col | CLP2 Col | STX-CLP | CLP2 | RPD | Compound/Flag | | | | |
|-------------|----------|----------|------|-------|---------------|--------|--------|-----|---------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | RPD | Compound/Flag |

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Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121413.D
Data file 2: /20221214.b/B20221214.b/22121413.D
Method: \20221214.b\PEST.m
Compound Sublist: WND.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL9
Client ID:
Injection Date: 14-DEC-2022 23:01
Report Date: 12/16/2022 15:19
Units: ng/mL
Dilution Factor: 1.000

| RT | STX-CLP Col Shift Response | CLP2 Col Shift Response | RT | STX-CLP on col | CLP2 on col | RPD | Compound/Flag | | |
|-------|-------------------------------|----------------------------|-------|-------------------|----------------|------|---------------|-----|----------------------|
| 6.015 | 0.000 | 39121 | 6.741 | -0.000 | 61505 | 5.34 | 5.41 | 1.3 | Oxychlorane |
| 6.106 | 0.000 | 33487 | 7.036 | -0.000 | 53206 | 5.54 | 5.72 | 3.1 | 2,4-DDE |
| 6.398 | 0.000 | 51858 | 7.154 | -0.001 | 72836 | 5.42 | 5.20 | 4.1 | trans-Nonachlor |
| 6.681 | 0.000 | 29307 | 7.590 | -0.000 | 44506 | 5.45 | 5.55 | 1.9 | 2,4-DDD |
| 6.957 | -0.000 | 31530 | 7.914 | 0.000 | 45986 | 5.43 | 5.57 | 2.6 | 2,4-DDT |
| 7.112 | -0.000 | 50912 | 7.975 | 0.000 | 70898 | 5.46 | 5.32 | 2.6 | cis-Nonachlor |
| 8.082 | -0.000 | 32004 | 9.223 | -0.000 | 45650 | 5.52 | 5.89 | 6.6 | Mirex |
| ---- | | | ---- | | | 0.00 | 0.00 | --- | Tetrachloro-m-xylene |
| ---- | | | ---- | | | 0.00 | 0.00 | --- | Decachlorobiphenyl |

* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 710650 | 672507 | -5.4 |
| Hexabromobiphenyl | 641833 | 615627 | -4.1 |

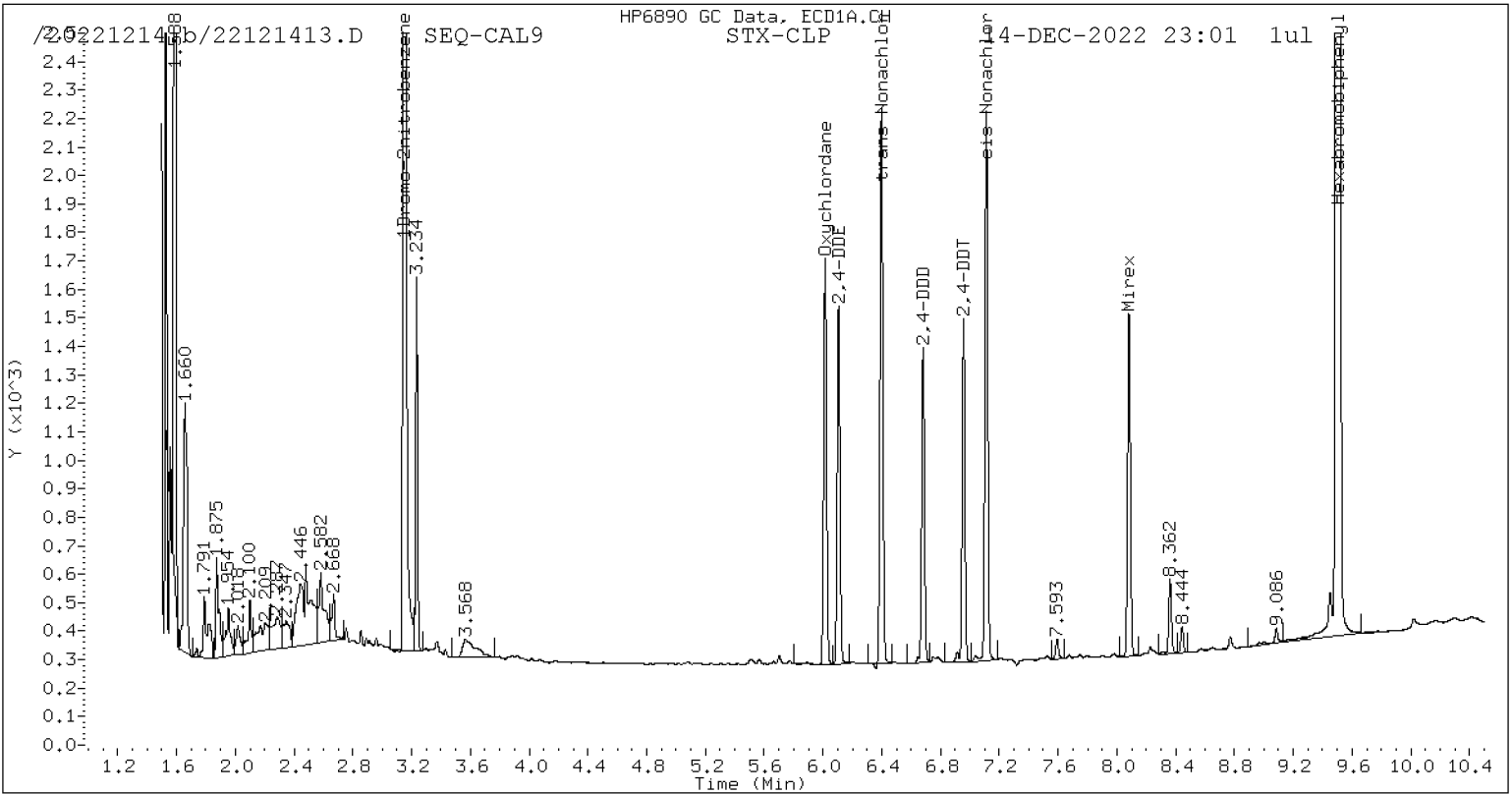
| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 1058848 | 1020334 | -3.6 |
| Hexabromobiphenyl | 797125 | 782734 | -1.8 |

* Standard Areas taken from Initial Cal Level 5

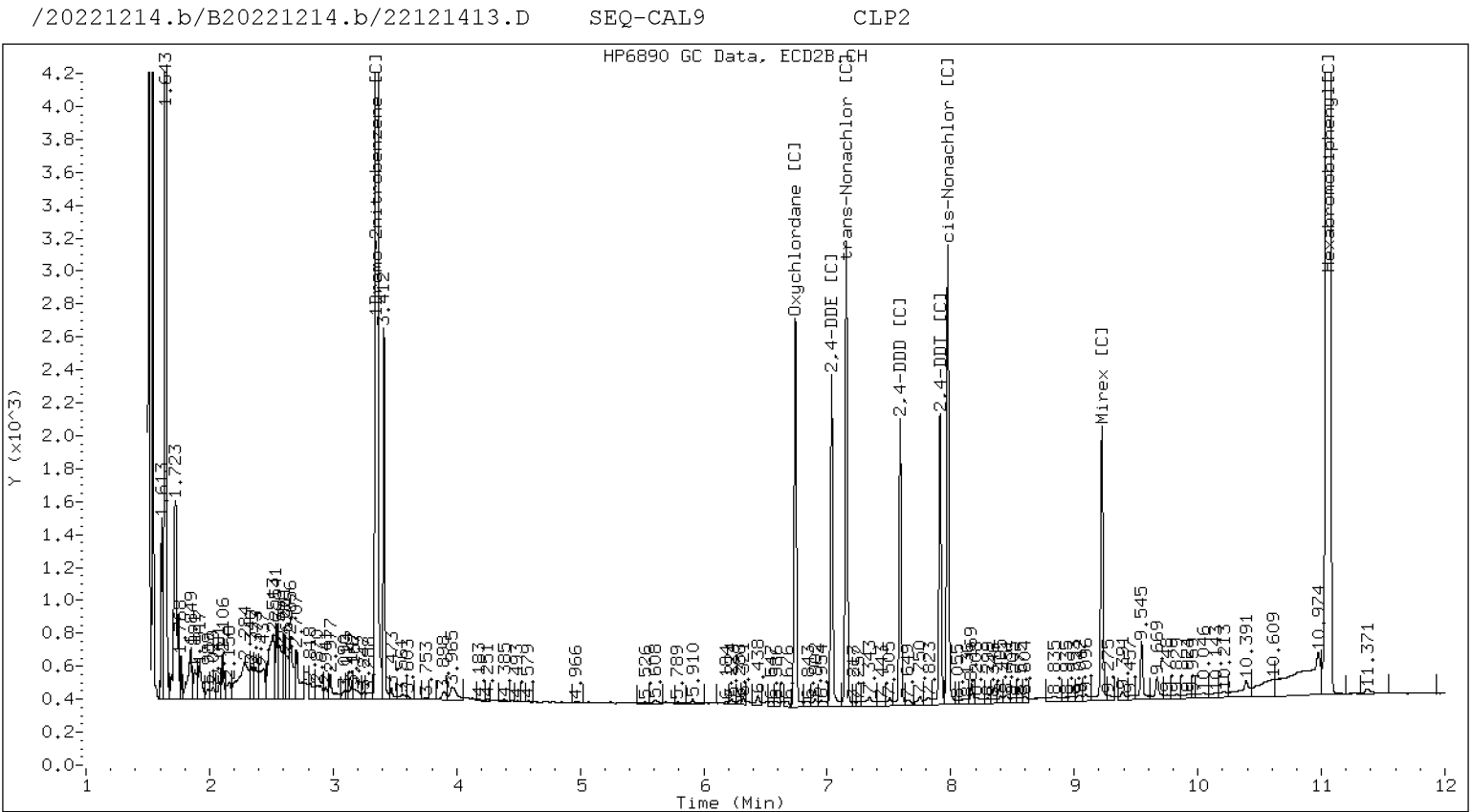
Initial Calibration Date: 14-DEC-2022

<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121413.D
Data file 2: /20221214.b/B20221214.b/22121413.D
Method: \20221214.b\PEST.m
Compound Sublist: WND.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL9
Client ID:
Injection Date: 14-DEC-2022 23:01
Report Date: 12/15/2022 09:09
Units: ng/mL
Dilution Factor: 1.000

| STX-CLP Col | CLP2 Col | STX-CLP | CLP2 | RPD | Compound/Flag | | | | |
|-------------|----------|----------|------|-------|---------------|--------|--------|-----|---------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | RPD | Compound/Flag |

=====

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121414.D
Data file 2: /20221214.b/B20221214.b/22121414.D
Method: \20221214.b\PEST.m
Compound Sublist: WND.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CALA
Client ID:
Injection Date: 14-DEC-2022 23:19
Report Date: 12/16/2022 15:19
Units: ng/mL
Dilution Factor: 1.000

| RT | STX-CLP Col Shift Response | CLP2 Col Shift Response | RT | STX-CLP on col | CLP2 on col | RPD | Compound/Flag | | |
|-------|-------------------------------|----------------------------|-------|-------------------|----------------|-------|---------------|-----|----------------------|
| 6.014 | -0.000 | 82473 | 6.741 | -0.001 | 127500 | 10.63 | 10.63 | 0.0 | Oxychlorane |
| 6.106 | -0.000 | 69109 | 7.035 | -0.001 | 108440 | 10.79 | 11.04 | 2.3 | 2,4-DDE |
| 6.398 | 0.000 | 108386 | 7.154 | -0.001 | 157712 | 10.68 | 10.60 | 0.7 | trans-Nonachlor |
| 6.681 | 0.000 | 60517 | 7.590 | -0.000 | 91420 | 10.62 | 10.74 | 1.2 | 2,4-DDD |
| 6.956 | -0.001 | 65300 | 7.913 | 0.000 | 91498 | 10.61 | 10.44 | 1.6 | 2,4-DDT |
| 7.111 | -0.001 | 104247 | 7.975 | -0.000 | 146224 | 10.55 | 10.34 | 2.0 | cis-Nonachlor |
| 8.082 | -0.000 | 65614 | 9.222 | -0.000 | 84337 | 10.67 | 10.25 | 4.0 | Mirex |
| ---- | | | ---- | | | 0.00 | 0.00 | --- | Tetrachloro-m-xylene |
| ---- | | | ---- | | | 0.00 | 0.00 | --- | Decachlorobiphenyl |

* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|-----|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 710650 | 712122 | 0.2 |
| Hexabromobiphenyl | 641833 | 652595 | 1.7 |

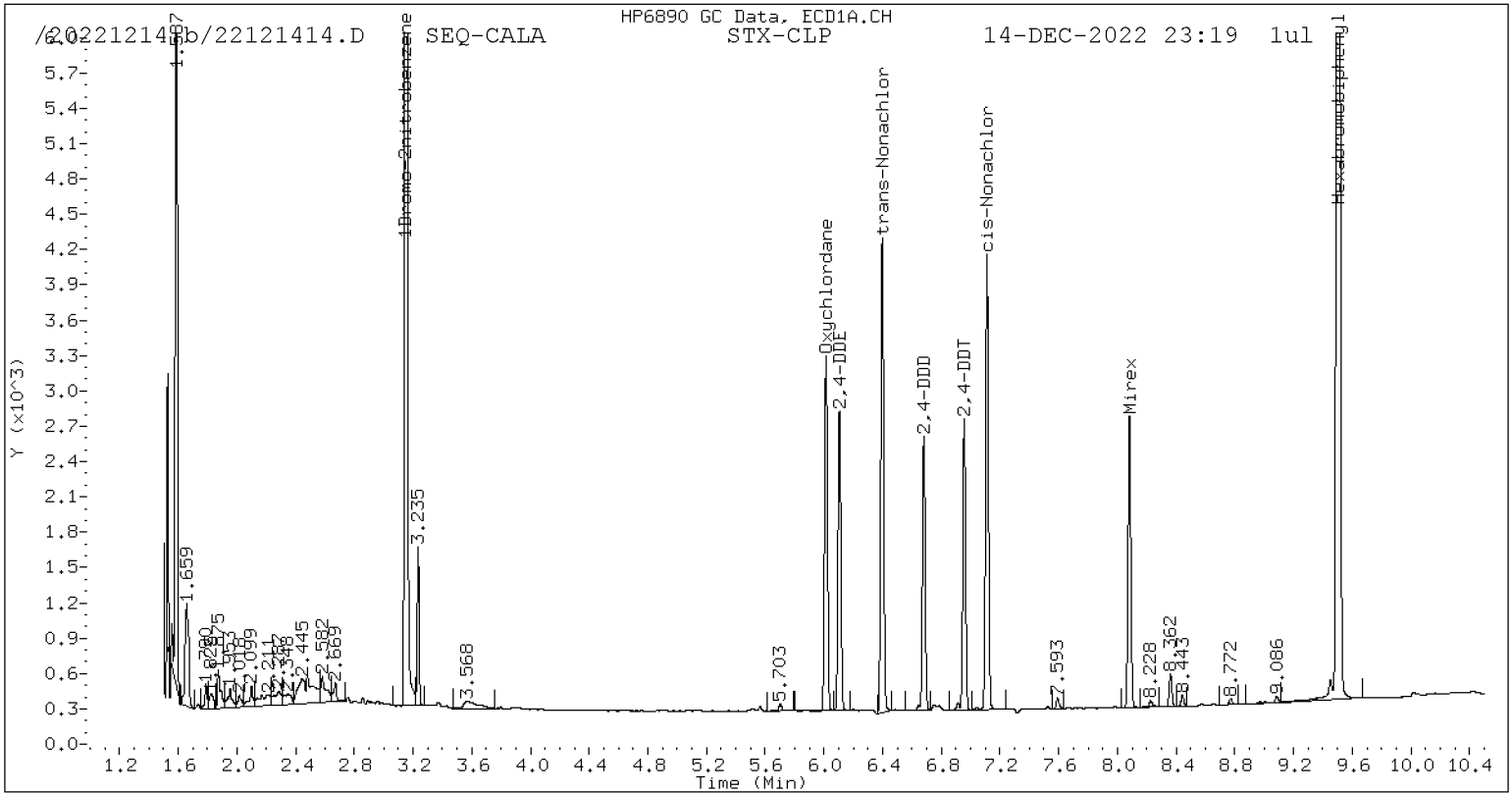
| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|-----|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 1058848 | 1077341 | 1.7 |
| Hexabromobiphenyl | 797125 | 831365 | 4.3 |

* Standard Areas taken from Initial Cal Level 5

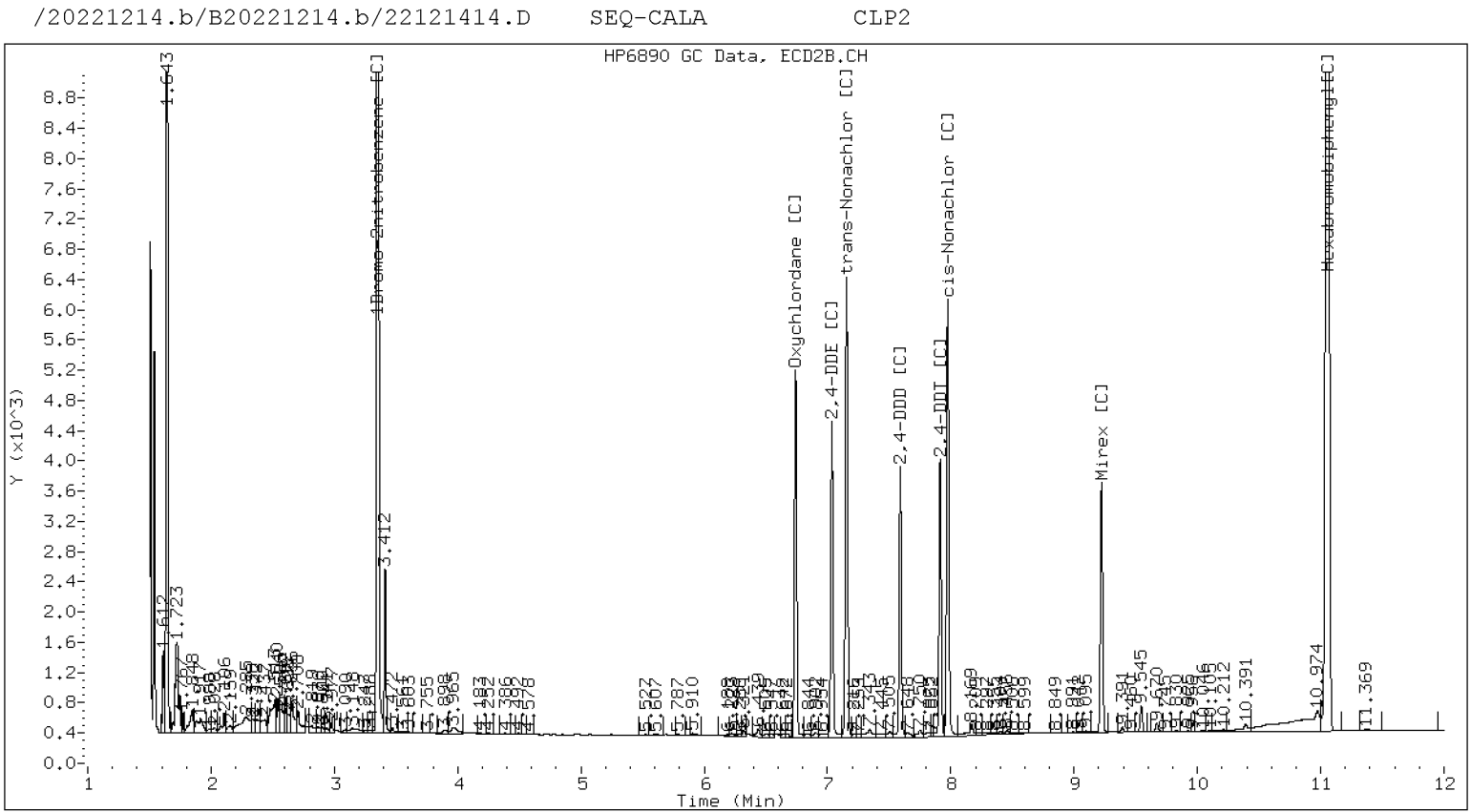
Initial Calibration Date: 14-DEC-2022

<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121414.D
Data file 2: /20221214.b/B20221214.b/22121414.D
Method: \20221214.b\PEST.m
Compound Sublist: WND.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CALA
Client ID:
Injection Date: 14-DEC-2022 23:19
Report Date: 12/15/2022 09:09
Units: ng/mL
Dilution Factor: 1.000

| STX-CLP Col | CLP2 Col | STX-CLP | CLP2 | RPD | Compound/Flag | |
|-------------|----------------|---------|----------------|--------|---------------|--|
| RT | Shift Response | RT | Shift Response | on col | on col | |

=====

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121415.D
Data file 2: /20221214.b/B20221214.b/22121415.D
Method: \20221214.b\PEST.m
Compound Sublist: WND.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CALB
Client ID:
Injection Date: 14-DEC-2022 23:36
Report Date: 12/16/2022 15:19
Units: ng/mL
Dilution Factor: 1.000

| RT | STX-CLP Col Shift Response | CLP2 Col Response | RT | CLP2 Col Shift Response | Response | STX-CLP on col | CLP2 on col | RPD | Compound/Flag |
|-------|-------------------------------|----------------------|-------|----------------------------|----------|-------------------|----------------|-----|----------------------|
| 6.015 | 0.001 | 154379 | 6.741 | -0.000 | 238017 | 20.80 | 20.28 | 2.5 | Oxychlorthane |
| 6.106 | -0.000 | 128483 | 7.036 | -0.000 | 195807 | 20.97 | 20.37 | 2.9 | 2,4-DDE |
| 6.398 | 0.000 | 200622 | 7.155 | -0.000 | 289952 | 20.66 | 20.28 | 1.9 | trans-Nonachlor |
| 6.681 | 0.000 | 113972 | 7.591 | 0.000 | 165245 | 20.90 | 20.21 | 3.4 | 2,4-DDD |
| 6.956 | -0.001 | 122412 | 7.913 | 0.000 | 169814 | 20.78 | 20.17 | 3.0 | 2,4-DDT |
| 7.112 | -0.000 | 194165 | 7.975 | -0.000 | 274910 | 20.54 | 20.23 | 1.5 | cis-Nonachlor |
| 8.082 | -0.000 | 119271 | 9.223 | 0.000 | 158702 | 20.28 | 20.08 | 1.0 | Mirex |
| ---- | | | ---- | | | 0.00 | 0.00 | --- | Tetrachloro-m-xylene |
| ---- | | | ---- | | | 0.00 | 0.00 | --- | Decachlorobiphenyl |

* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 710650 | 693450 | -2.4 |
| Hexabromobiphenyl | 641833 | 624334 | -2.7 |

| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 1058848 | 1053959 | -0.5 |
| Hexabromobiphenyl | 797125 | 798882 | 0.2 |

* Standard Areas taken from Initial Cal Level 5

Initial Calibration Date: 14-DEC-2022

<- Indicates standard response outside Limits (-50 to +100%)

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121415.D
Data file 2: /20221214.b/B20221214.b/22121415.D
Method: \20221214.b\PEST.m
Compound Sublist: WND.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CALB
Client ID:
Injection Date: 14-DEC-2022 23:36
Report Date: 12/15/2022 09:09
Units: ng/mL
Dilution Factor: 1.000

| STX-CLP Col | | CLP2 Col | | STX-CLP | CLP2 | | |
|-------------|----------------|----------|----------------|---------|--------|-----|---------------|
| RT | Shift Response | RT | Shift Response | on col | on col | RPD | Compound/Flag |

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Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121416.D
Data file 2: /20221214.b/B20221214.b/22121416.D
Method: \20221214.b\PEST.m
Compound Sublist: WND.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CALC
Client ID:
Injection Date: 14-DEC-2022 23:54
Report Date: 12/16/2022 15:19
Units: ng/mL
Dilution Factor: 1.000

| STX-CLP Col | | | CLP2 Col | | | STX-CLP | CLP2 | RPD | Compound/Flag |
|-------------|--------|----------|----------|--------|----------|---------|--------|-----|----------------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | |
| 6.014 | 0.000 | 292499 | 6.741 | -0.000 | 460731 | 40.08 | 40.26 | 0.4 | Oxychlorthane |
| 6.106 | 0.000 | 242066 | 7.036 | -0.000 | 372996 | 40.18 | 39.80 | 0.9 | 2,4-DDE |
| 6.397 | 0.000 | 383329 | 7.154 | -0.001 | 567971 | 40.16 | 40.45 | 0.7 | trans-Nonachlor |
| 6.681 | 0.000 | 216474 | 7.590 | -0.000 | 320311 | 40.39 | 39.88 | 1.3 | 2,4-DDD |
| 6.957 | 0.000 | 233738 | 7.913 | -0.000 | 332906 | 40.36 | 40.25 | 0.3 | 2,4-DDT |
| 7.112 | 0.000 | 373705 | 7.975 | -0.000 | 538334 | 40.21 | 40.33 | 0.3 | cis-Nonachlor |
| 8.082 | 0.000 | 229604 | 9.222 | -0.000 | 299228 | 39.71 | 38.54 | 3.0 | Mirex |
| 3.800 | -0.028 | 1151 | ---- | | | 0.13 | 0.00 | --- | Tetrachloro-m-xylene |
| ---- | | | ---- | | | 0.00 | 0.00 | --- | Decachlorobiphenyl |

* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 710650 | 674573 | -5.1 |
| Hexabromobiphenyl | 641833 | 613787 | -4.4 |

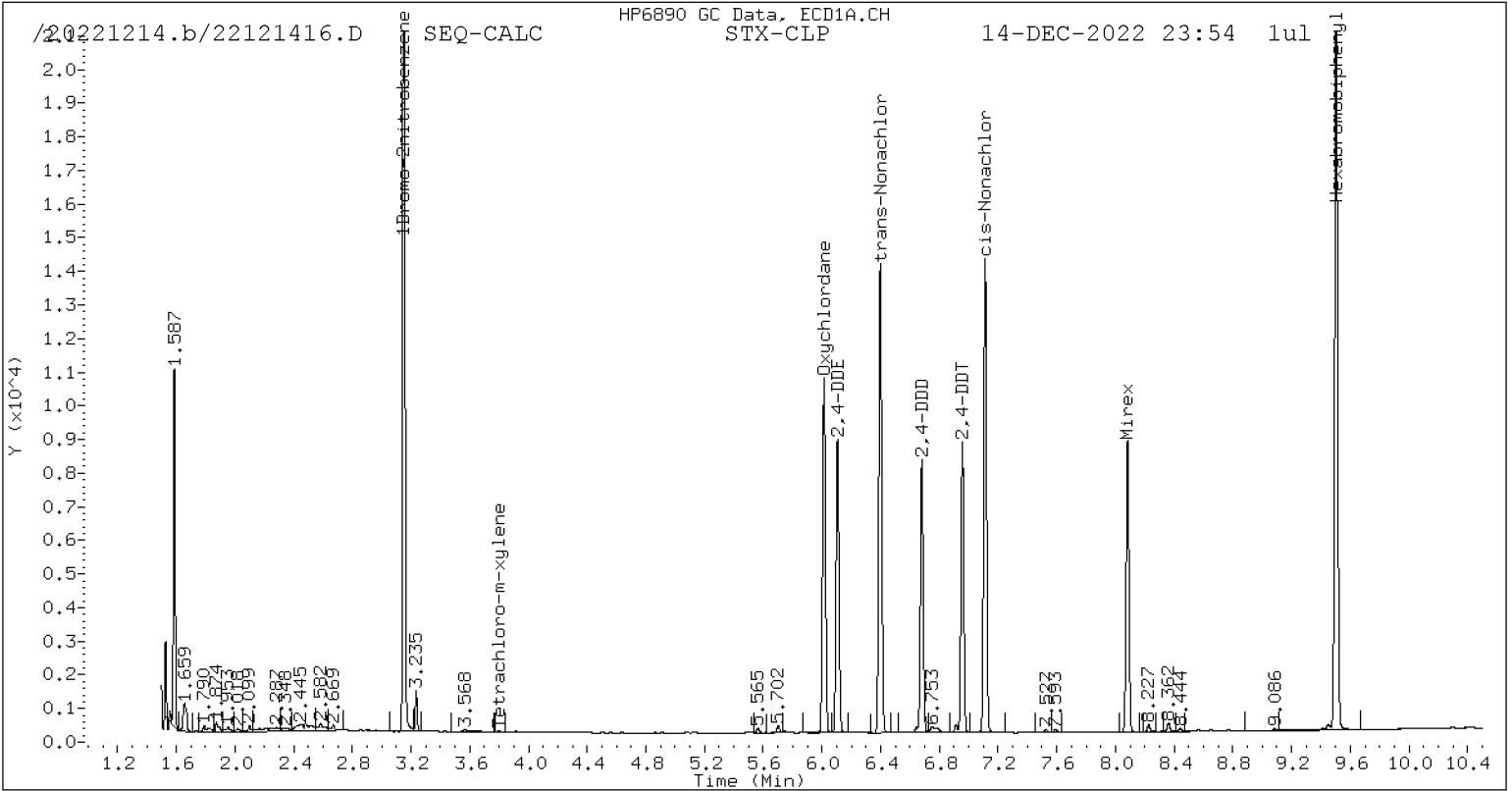
| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 1058848 | 1027697 | -2.9 |
| Hexabromobiphenyl | 797125 | 784673 | -1.6 |

* Standard Areas taken from Initial Cal Level 5

Initial Calibration Date: 14-DEC-2022

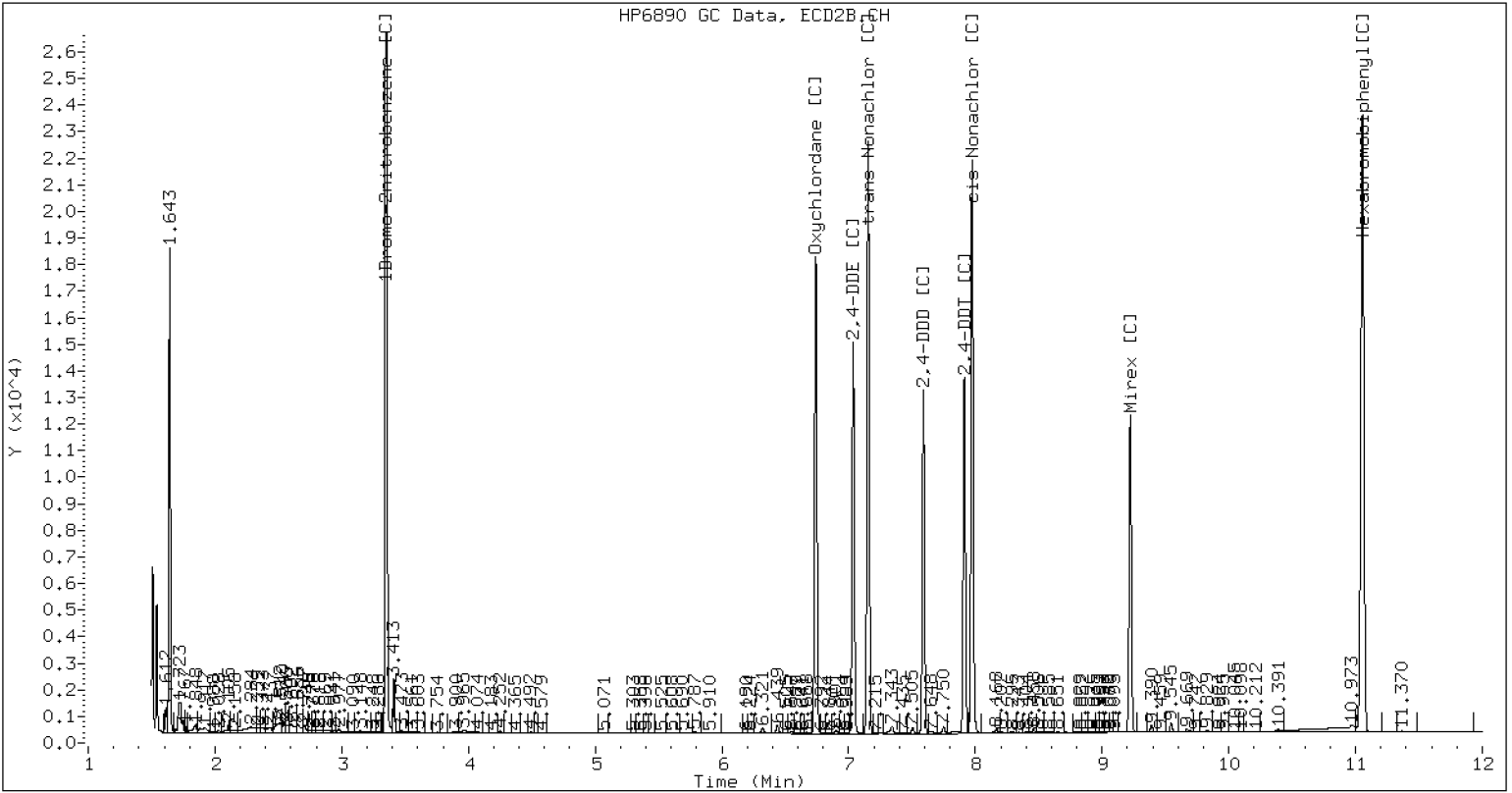
<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20221214.b/B20221214.b/22121416.D SEQ-CALC CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121416.D
Data file 2: /20221214.b/B20221214.b/22121416.D
Method: \20221214.b\PEST.m
Compound Sublist: WND.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CALC
Client ID:
Injection Date: 14-DEC-2022 23:54
Report Date: 12/15/2022 09:09
Units: ng/mL
Dilution Factor: 1.000

| STX-CLP Col | CLP2 Col | STX-CLP | CLP2 | RPD | Compound/Flag | |
|-------------|----------------|---------|----------------|--------|---------------|--|
| RT | Shift Response | RT | Shift Response | on col | on col | |

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Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121417.D
 Data file 2: /20221214.b/B20221214.b/22121417.D
 Method: \20221214.b\PEST.m
 Compound Sublist: WND.sub
 Instrument, Inj. Vol.: ecd6.i, 1ul
 Operator: JGR

ARI ID: SEQ-CALD
 Client ID:
 Injection Date: 15-DEC-2022 00:12
 Report Date: 12/16/2022 15:19
 Units: ng/mL
 Dilution Factor: 1.000

| RT | STX-CLP Col Shift Response | CLP2 Col Shift Response | RT | CLP2 Col Shift Response | STX-CLP on col | CLP2 on col | RPD | Compound/Flag | |
|-------|-------------------------------|----------------------------|-------|----------------------------|-------------------|----------------|-------|---------------|----------------------|
| 6.014 | -0.000 | 544254 | 6.741 | -0.000 | 856443 | 75.85 | 75.73 | 0.2 | Oxychlorane |
| 6.106 | -0.000 | 438313 | 7.036 | -0.000 | 677072 | 73.99 | 73.11 | 1.2 | 2,4-DDE |
| 6.397 | -0.000 | 704675 | 7.155 | 0.000 | 1067899 | 75.09 | 76.94 | 2.4 | trans-Nonachlor |
| 6.681 | 0.000 | 393654 | 7.591 | 0.000 | 594311 | 74.70 | 74.86 | 0.2 | 2,4-DDD |
| 6.956 | -0.001 | 430636 | 7.914 | 0.000 | 618740 | 75.63 | 75.68 | 0.1 | 2,4-DDT |
| 7.112 | -0.000 | 688257 | 7.975 | 0.000 | 1018624 | 75.31 | 77.19 | 2.5 | cis-Nonachlor |
| 8.082 | -0.001 | 426177 | 9.223 | 0.000 | 573947 | 74.97 | 74.78 | 0.2 | Mirex |
| 3.800 | -0.028 | 2109 | ---- | | | 0.23 | 0.00 | --- | Tetrachloro-m-xylene |
| ---- | | | ---- | | | 0.00 | 0.00 | --- | Decachlorobiphenyl |

* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 710650 | 664375 | -6.5 |
| Hexabromobiphenyl | 641833 | 603504 | -6.0 |

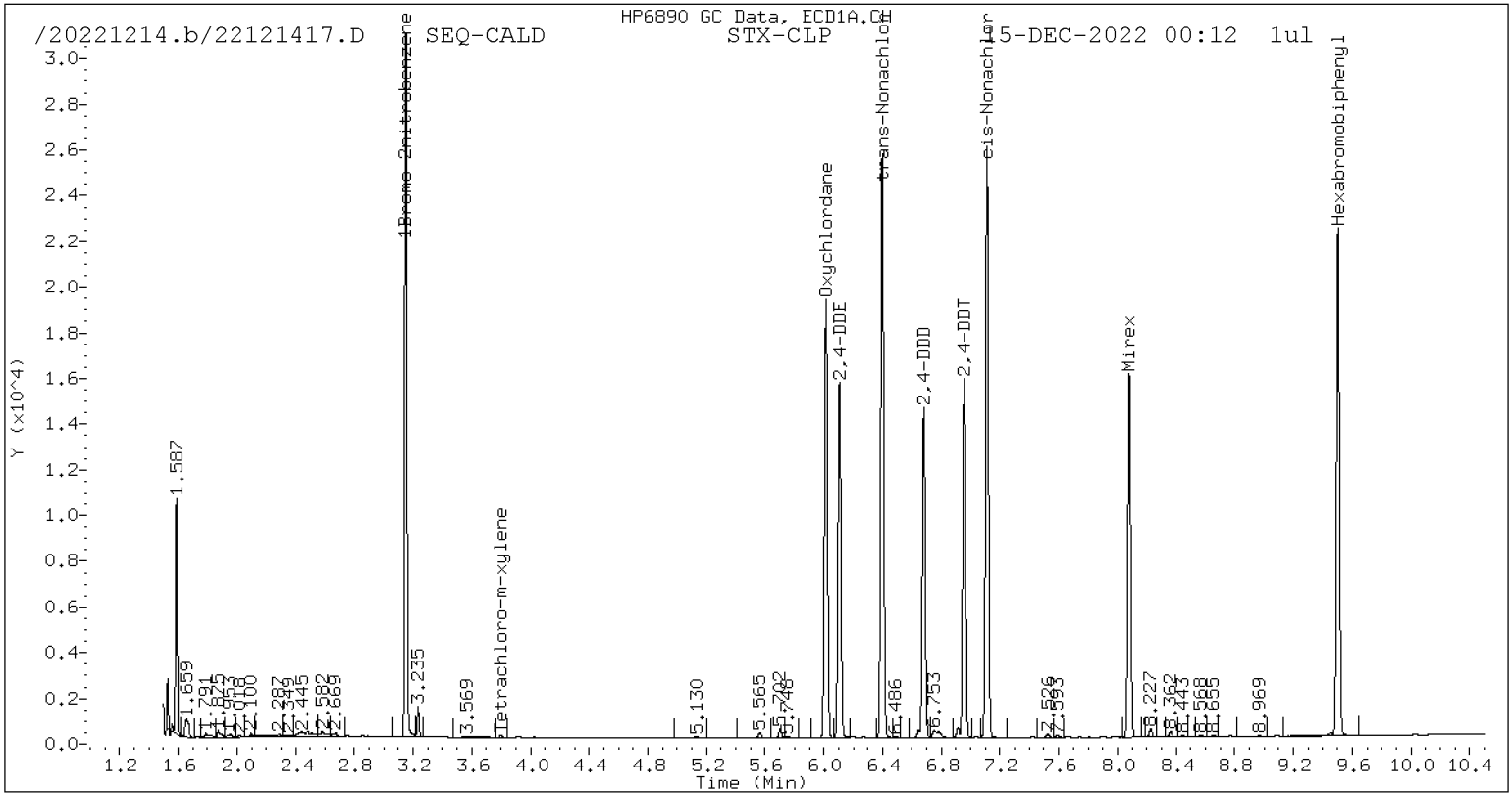
| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 1058848 | 1015544 | -4.1 |
| Hexabromobiphenyl | 797125 | 775630 | -2.7 |

* Standard Areas taken from Initial Cal Level 5

Initial Calibration Date: 14-DEC-2022

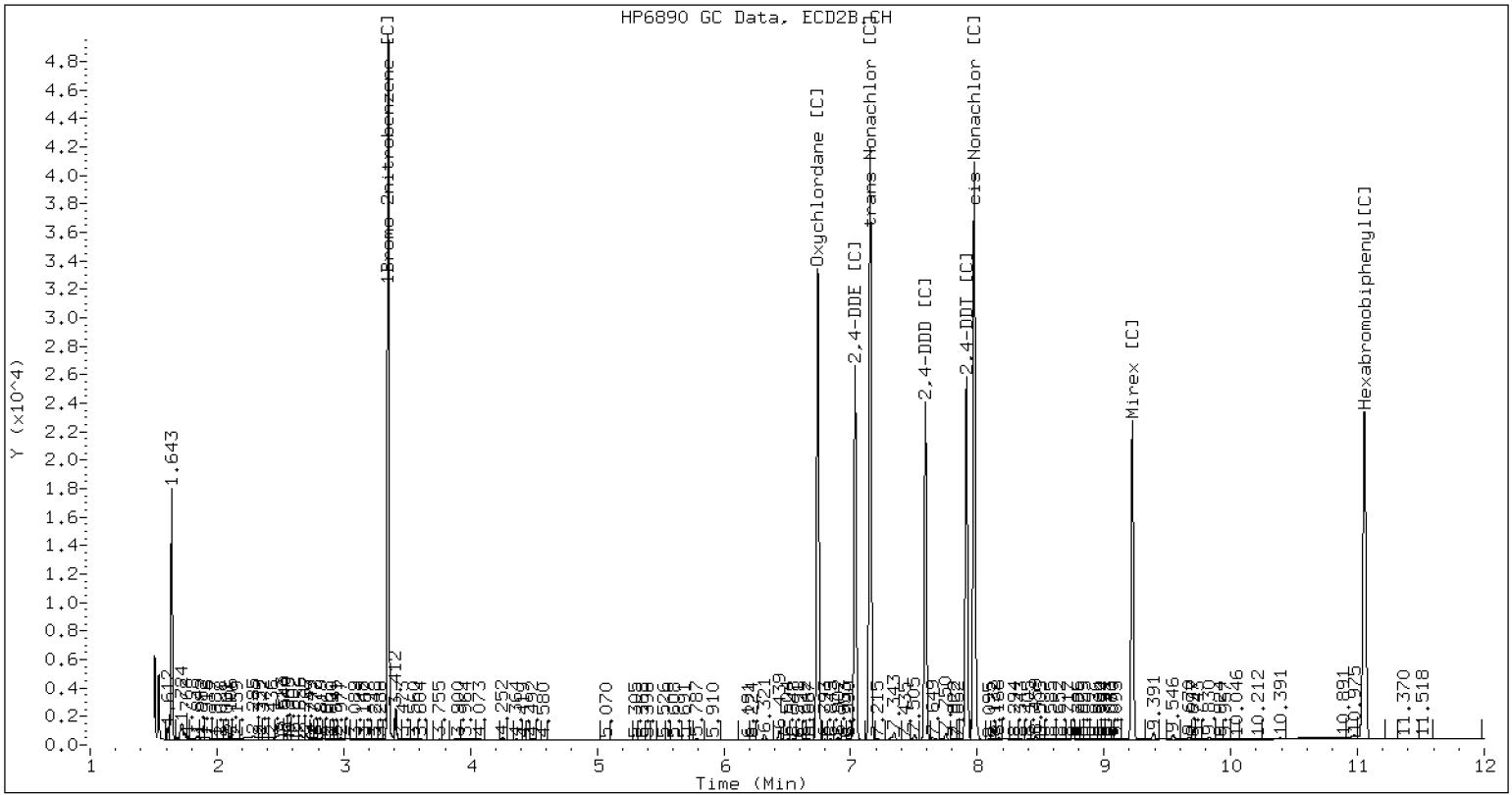
<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20221214.b/B20221214.b/22121417.D SEQ-CALD CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121417.D
Data file 2: /20221214.b/B20221214.b/22121417.D
Method: \20221214.b\PEST.m
Compound Sublist: WND.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CALD
Client ID:
Injection Date: 15-DEC-2022 00:12
Report Date: 12/15/2022 09:09
Units: ng/mL
Dilution Factor: 1.000

| STX-CLP Col | CLP2 Col | STX-CLP | CLP2 | RPD | Compound/Flag | | | | |
|-------------|----------|----------|------|-------|---------------|--------|--------|-----|---------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | RPD | Compound/Flag |

=====

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121418.D
 Data file 2: /20221214.b/B20221214.b/22121418.D
 Method: \20221214.b\PEST.m
 Compound Sublist: WND.sub
 Instrument, Inj. Vol.: ecd6.i, 1ul
 Operator: JGR

ARI ID: SEQ-CALE
 Client ID:
 Injection Date: 15-DEC-2022 00:30
 Report Date: 12/16/2022 15:19
 Units: ng/mL
 Dilution Factor: 1.000

| RT | STX-CLP Col Shift Response | CLP2 Col Shift Response | RT | CLP2 Col Shift Response | STX-CLP on col | CLP2 on col | RPD | Compound/Flag | |
|-------|-------------------------------|----------------------------|--------|----------------------------|-------------------|----------------|--------|---------------|----------------------|
| 6.014 | 0.000 | 1020828 | 6.741 | 0.000 | 1630330 | 140.48 | 142.04 | 1.1 | Oxychlorane |
| 6.106 | -0.000 | 801828 | 7.036 | 0.000 | 1240933 | 133.65 | 132.03 | 1.2 | 2,4-DDE |
| 6.397 | 0.000 | 1327091 | 7.155 | 0.000 | 2047915 | 139.63 | 146.04 | 4.5 | trans-Nonachlor |
| 6.680 | -0.000 | 733651 | 7.591 | 0.000 | 1118552 | 137.46 | 139.45 | 1.4 | 2,4-DDD |
| 6.956 | -0.001 | 794021 | 7.913 | 0.000 | 1163676 | 137.69 | 140.88 | 2.3 | 2,4-DDT |
| 7.112 | -0.000 | 1301975 | 7.975 | 0.000 | 1956215 | 140.68 | 146.73 | 4.2 | cis-Nonachlor |
| 8.082 | -0.001 | 815059 | 9.223 | 0.000 | 1108848 | 141.57 | 143.01 | 1.0 | Mirex |
| 3.800 | -0.028 | 3997 | ---- | | | 0.43 | 0.00 | --- | Tetrachloro-m-xylene |
| ---- | | | 10.471 | 0.004 | 3393 | 0.00 | 0.39 | --- | Decachlorobiphenyl |

* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 710650 | 675789 | -4.9 |
| Hexabromobiphenyl | 641833 | 611199 | -4.8 |

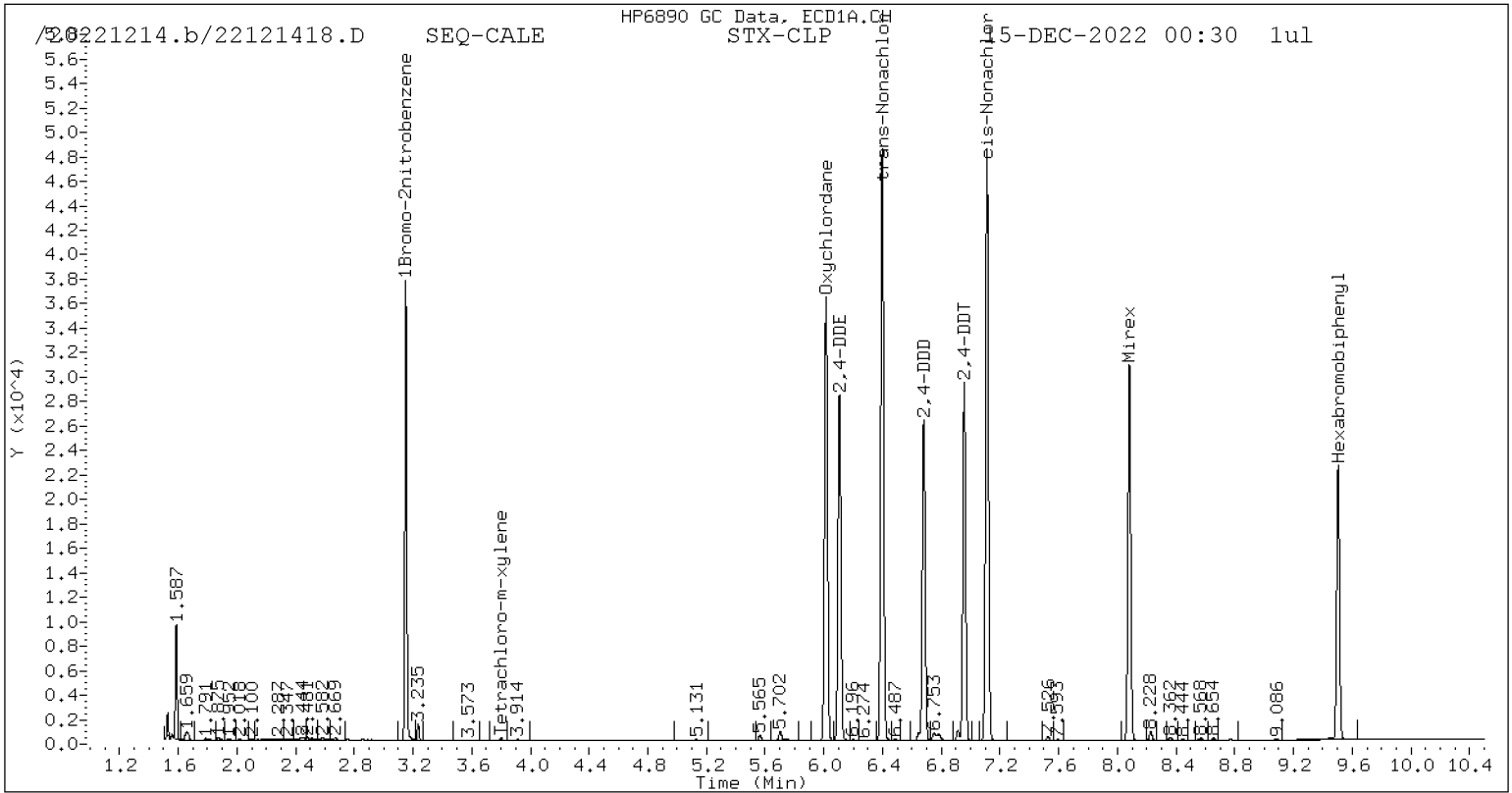
| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 1058848 | 1030648 | -2.7 |
| Hexabromobiphenyl | 797125 | 783631 | -1.7 |

* Standard Areas taken from Initial Cal Level 5

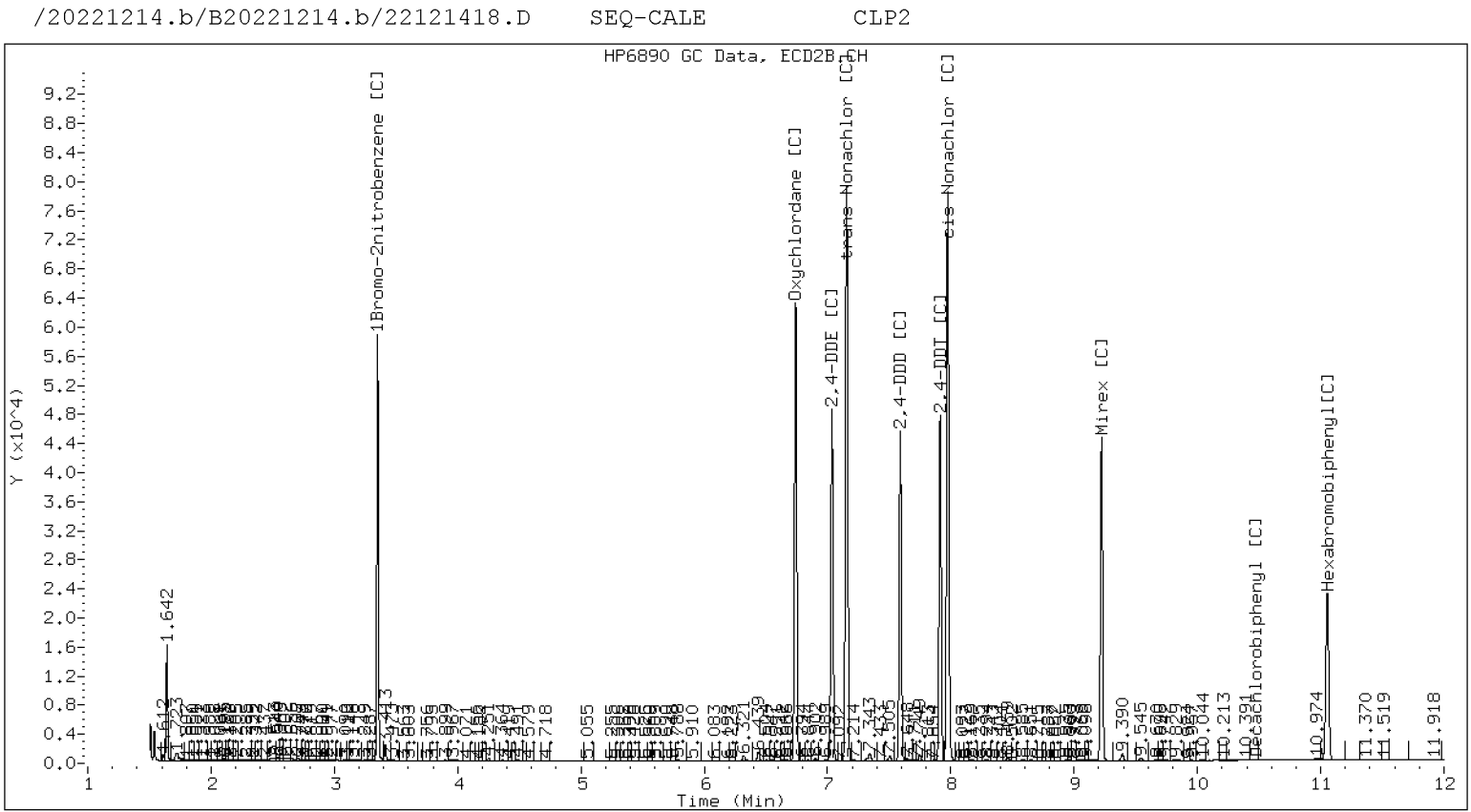
Initial Calibration Date: 14-DEC-2022

<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121418.D
Data file 2: /20221214.b/B20221214.b/22121418.D
Method: \20221214.b\PEST.m
Compound Sublist: WND.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CALE
Client ID:
Injection Date: 15-DEC-2022 00:30
Report Date: 12/15/2022 09:09
Units: ng/mL
Dilution Factor: 1.000

| STX-CLP Col | | CLP2 Col | | STX-CLP | CLP2 | | |
|-------------|----------------|----------|----------------|---------|--------|-----|---------------|
| RT | Shift Response | RT | Shift Response | on col | on col | RPD | Compound/Flag |

=====

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121419.D
Data file 2: /20221214.b/B20221214.b/22121419.D
Method: \20221214.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-SCV1
Client ID:
Injection Date: 15-DEC-2022 00:48
Report Date: 12/16/2022 15:19
Units: ng/mL
Dilution Factor: 1.000

| RT | STX-CLP Col Shift Response | CLP2 Col Shift Response | RT | CLP2 Col Shift Response | STX-CLP on col | CLP2 on col | RPD | Compound/Flag | |
|-------|----------------------------|-------------------------|--------|-------------------------|----------------|-------------|-------|---------------|----------------------|
| 4.342 | 0.000 | 643235 | 4.860 | -0.000 | 1047709 | 49.66 | 51.22 | 3.1 | alpha-BHC |
| 4.726 | -0.000 | 242617 | 5.337 | 0.000 | 386388 | 48.66 | 49.69 | 2.1 | beta-BHC |
| 4.909 | 0.000 | 554797 | 5.692 | 0.001 | 897343 | 52.41 | 53.26 | 1.6 | delta-BHC |
| 4.646 | 0.001 | 573983 | 5.258 | 0.000 | 915596 | 51.11 | 52.75 | 3.1 | gamma-BHC (Lindane) |
| 5.130 | 0.000 | 495138 | 5.788 | 0.001 | 804002 | 49.55 | 51.13 | 3.1 | Heptachlor |
| 5.454 | 0.000 | 526615 | 6.191 | 0.000 | 842909 | 47.03 | 46.95 | 0.2 | Aldrin |
| 6.130 | 0.000 | 469481 | 6.846 | 0.000 | 724932 | 48.36 | 48.83 | 1.0 | Heptachlor epoxide b |
| 6.573 | 0.000 | 423102 | 7.289 | -0.000 | 632890 | 47.49 | 48.37 | 1.8 | Endosulfan I |
| 6.832 | 0.000 | 478299 | 7.583 | 0.000 | 724854 | 49.97 | 50.14 | 0.3 | Dieldrin |
| 6.489 | 0.000 | 448741 | 7.371 | 0.000 | 670346 | 50.49 | 50.56 | 0.1 | 4,4'-DDE |
| 7.082 | 0.001 | 396143 | 7.907 | 0.000 | 551004 | 50.36 | 50.73 | 0.7 | Endrin |
| 7.318 | 0.001 | 350431 | 8.118 | 0.001 | 537104 | 49.49 | 48.24 | 2.6 | Endosulfan II |
| 7.136 | 0.001 | 355688 | 7.977 | 0.001 | 525927 | 50.19 | 49.78 | 0.8 | 4,4'-DDD |
| 8.180 | 0.000 | 347949 | 8.716 | 0.001 | 502438 | 51.75 | 51.39 | 0.7 | Endosulfan sulfate |
| 7.428 | 0.001 | 368644 | 8.295 | -0.000 | 524685 | 51.48 | 51.45 | 0.1 | 4,4'-DDT |
| 7.913 | 0.001 | 174306 | 8.935 | -0.001 | 238791 | 54.93 | 52.91 | 3.7 | Methoxychlor |
| 8.454 | 0.000 | 394474 | 9.240 | -0.000 | 540431 | 51.21 | 51.18 | 0.1 | Endrin ketone |
| 7.746 | 0.001 | 316262 | 8.448 | 0.000 | 449269 | 56.00 | 57.20 | 2.1 | Endrin aldehyde |
| 6.271 | 0.000 | 490842 | 7.056 | 0.000 | 748350 | 49.78 | 50.55 | 1.5 | trans-Chlordane |
| 6.417 | 0.001 | 469513 | 7.216 | 0.000 | 700871 | 47.47 | 48.39 | 1.9 | cis-Chlordane |
| ---- | | | 2.512 | 0.011 | 11364 | 0.00 | 0.59 | --- | Hexachlorobutadiene |
| ---- | | | 4.719 | 0.001 | 634 | 0.00 | 0.03 | --- | Hexachlorobenzene |
| ---- | | | 4.220 | -0.000 | 1724 | 0.00 | 0.12 | --- | Tetrachloro-m-xylene |
| ---- | | | 10.468 | 0.001 | 643 | 0.00 | 0.08 | --- | Decachlorobiphenyl |

* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 710650 | 672755 | -5.3 |
| Hexabromobiphenyl | 641833 | 599983 | -6.5 |

| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 1058848 | 1020655 | -3.6 |
| Hexabromobiphenyl | 797125 | 763949 | -4.2 |

* Standard Areas taken from Initial Cal Level 5

Initial Calibration Date: 14-DEC-2022

<- Indicates standard response outside Limits (-50 to +100%)

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121419.D
Data file 2: /20221214.b/B20221214.b/22121419.D
Method: \20221214.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-SCV1
Client ID:
Injection Date: 15-DEC-2022 00:48
Report Date: 12/15/2022 09:09
Units: ng/mL
Dilution Factor: 1.000

| STX-CLP Col | CLP2 Col | STX-CLP | CLP2 | RPD | Compound/Flag | |
|-------------|----------------|---------|----------------|--------|---------------|--|
| RT | Shift Response | RT | Shift Response | on col | on col | |

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Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121420.D
Data file 2: /20221214.b/B20221214.b/22121420.D
Method: \20221214.b\PEST.m
Compound Sublist: WND.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-SCV2
Client ID:
Injection Date: 15-DEC-2022 01:06
Report Date: 12/16/2022 15:20
Units: ng/mL
Dilution Factor: 1.000

| RT | STX-CLP Col Shift Response | CLP2 Col Shift Response | RT | CLP2 Col Shift Response | STX-CLP on col | CLP2 on col | RPD | Compound/Flag | |
|-------|-------------------------------|----------------------------|-------|----------------------------|-------------------|----------------|-------|---------------|----------------------|
| 6.014 | -0.000 | 374516 | 6.741 | 0.000 | 591348 | 51.08 | 50.07 | 2.0 | Oxychlorthane |
| 6.106 | -0.000 | 261097 | 7.036 | -0.000 | 403824 | 43.13 | 41.76 | 3.2 | 2,4-DDE |
| 6.397 | -0.000 | 444133 | 7.155 | -0.000 | 657777 | 46.31 | 45.91 | 0.9 | trans-Nonachlor |
| 6.681 | 0.000 | 222534 | 7.591 | 0.000 | 334706 | 41.32 | 40.84 | 1.2 | 2,4-DDD |
| 6.956 | -0.001 | 262722 | 7.914 | 0.000 | 382016 | 45.15 | 45.26 | 0.2 | 2,4-DDT |
| 7.111 | -0.001 | 455894 | 7.975 | 0.000 | 655718 | 48.82 | 48.13 | 1.4 | cis-Nonachlor |
| 8.081 | -0.001 | 256593 | 9.223 | 0.000 | 343173 | 44.17 | 43.31 | 2.0 | Mirex |
| ---- | | | ---- | | | 0.00 | 0.00 | --- | Tetrachloro-m-xylene |
| ---- | | | ---- | | | 0.00 | 0.00 | --- | Decachlorobiphenyl |

* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 710650 | 687052 | -3.3 |
| Hexabromobiphenyl | 641833 | 616730 | -3.9 |

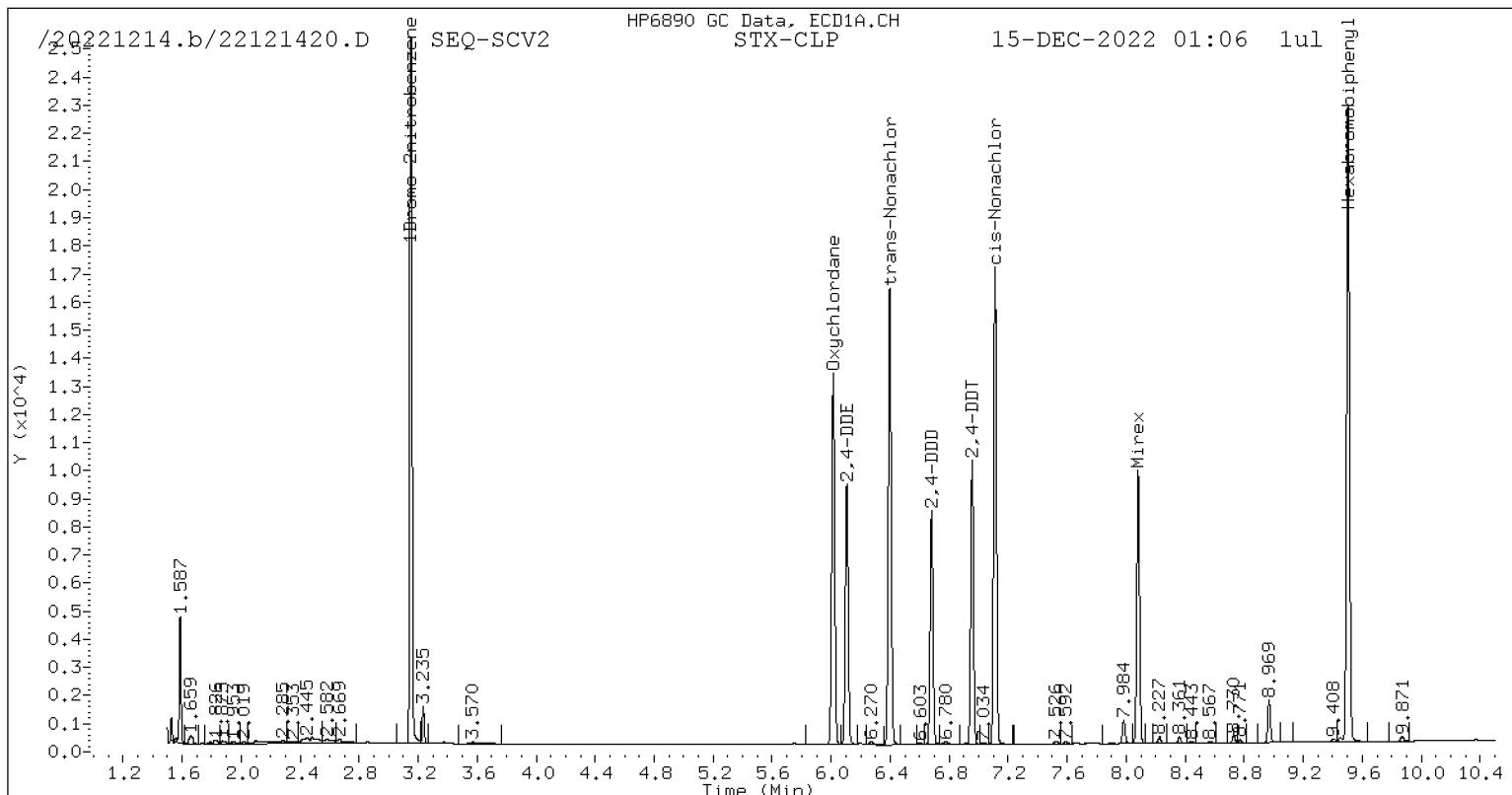
| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|-----|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 1058848 | 1060438 | 0.2 |
| Hexabromobiphenyl | 797125 | 800740 | 0.5 |

* Standard Areas taken from Initial Cal Level 5

Initial Calibration Date: 14-DEC-2022

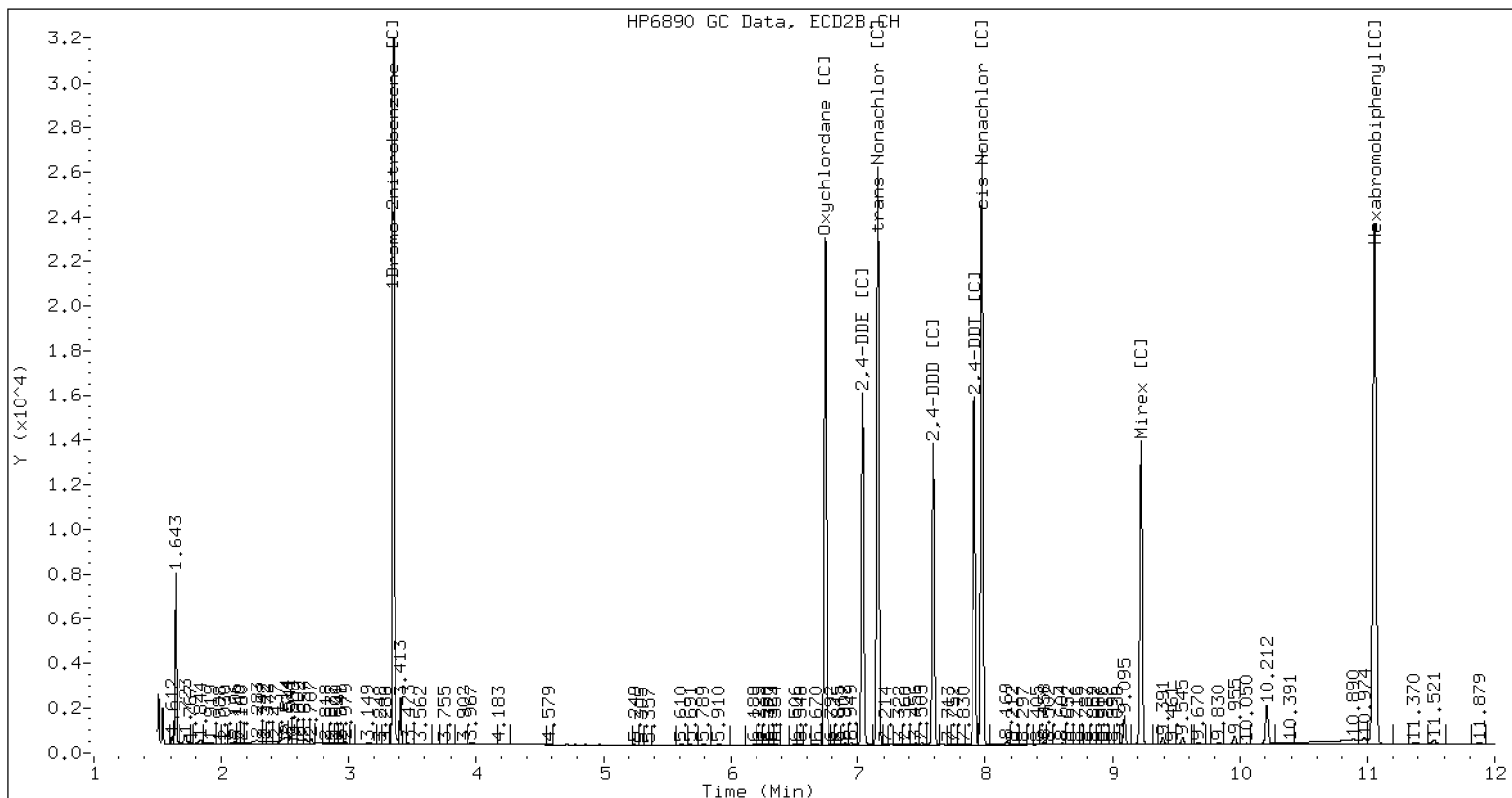
<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20221214.b/B20221214.b/22121420.D SEQ-SCV2 CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121420.D
Data file 2: /20221214.b/B20221214.b/22121420.D
Method: \20221214.b\PEST.m
Compound Sublist: WND.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-SCV2
Client ID:
Injection Date: 15-DEC-2022 01:06
Report Date: 12/15/2022 09:09
Units: ng/mL
Dilution Factor: 1.000

| STX-CLP Col | CLP2 Col | STX-CLP | CLP2 | RPD | Compound/Flag | |
|-------------|----------------|---------|----------------|--------|---------------|--|
| RT | Shift Response | RT | Shift Response | on col | on col | |

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Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121421.D
 Data file 2: /20221214.b/B20221214.b/22121421.D
 Method: \20221214.b\PEST.m
 Compound Sublist: TECHCHLOR.sub
 Instrument, Inj. Vol.: ecd6.i, 1ul
 Operator: JGR

ARI ID: SEQ-CAL1A
 Client ID:
 Injection Date: 15-DEC-2022 01:24
 Report Date: 12/16/2022 15:20
 Units: ng/mL
 Dilution Factor: 1.000

| RT | STX-CLP Col Shift Response | CLP2 Col Shift Response | 361 | STX-CLP on col | CLP2 on col | RPD | Compound/Flag |
|------|-------------------------------|----------------------------|-----|-------------------|----------------|-----|----------------------|
| ---- | 4.215 | -0.006 | 361 | 0.00 | 0.02 | --- | Tetrachloro-m-xylene |
| ---- | ---- | | | 0.00 | 0.00 | --- | Decachlorobiphenyl |

- * Indicates RPD > 40%
- A Indicates Peak Height was used for Column 1 quantitation instead of Area
- B Indicates Peak Height was used for Column 2 quantitation instead of Area
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

- ~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

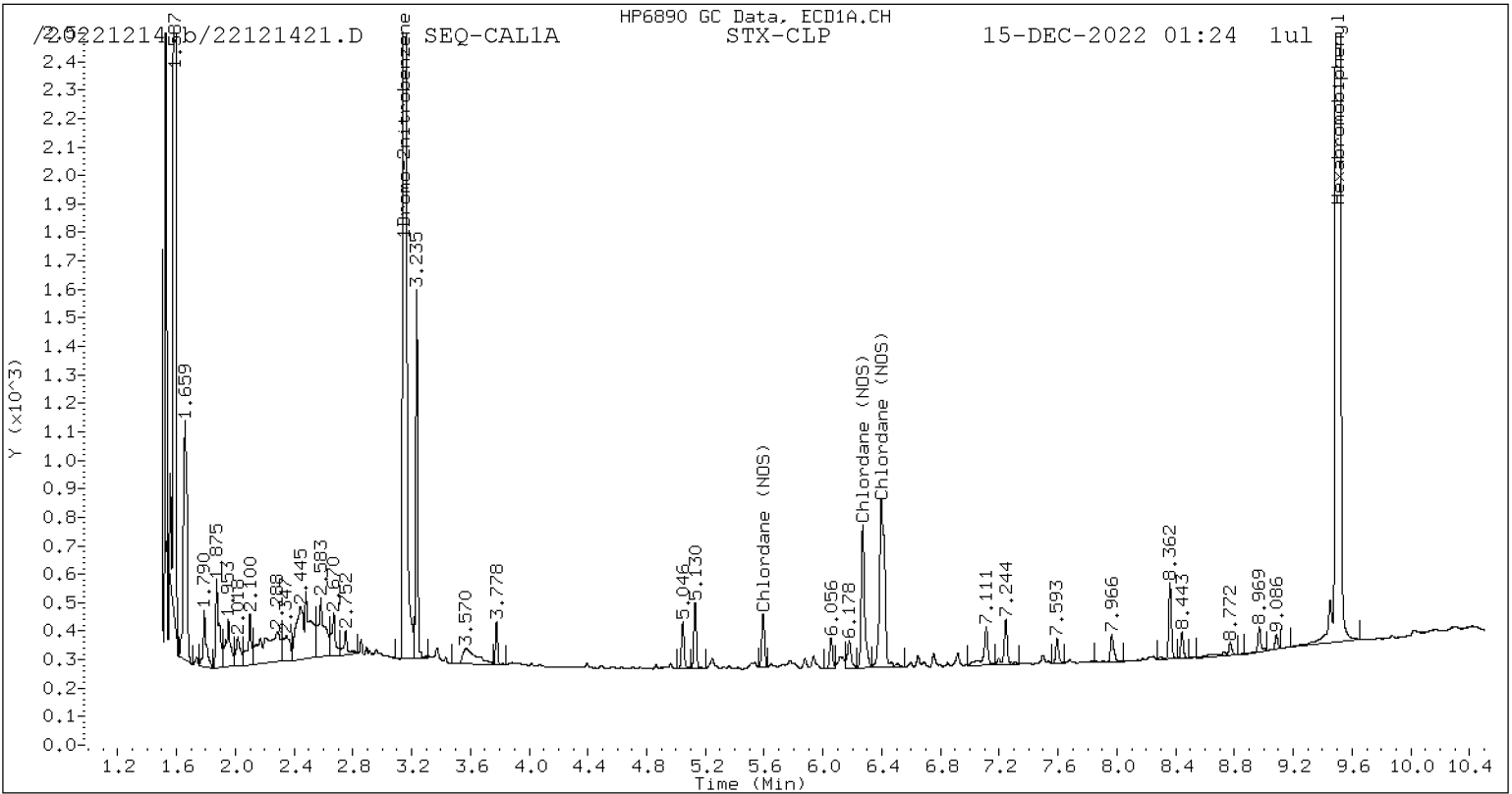
| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|-------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 710650 | 601512 | -15.4 |
| Hexabromobiphenyl | 641833 | 690103 | 7.5 |

| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|-------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 1058848 | 776759 | -26.6 |
| Hexabromobiphenyl | 797125 | 1058847 | 32.8 |

* Standard Areas taken from Initial Cal Level 5
 Initial Calibration Date: 14-DEC-2022
 <- Indicates standard response outside Limits (-50 to +100%)

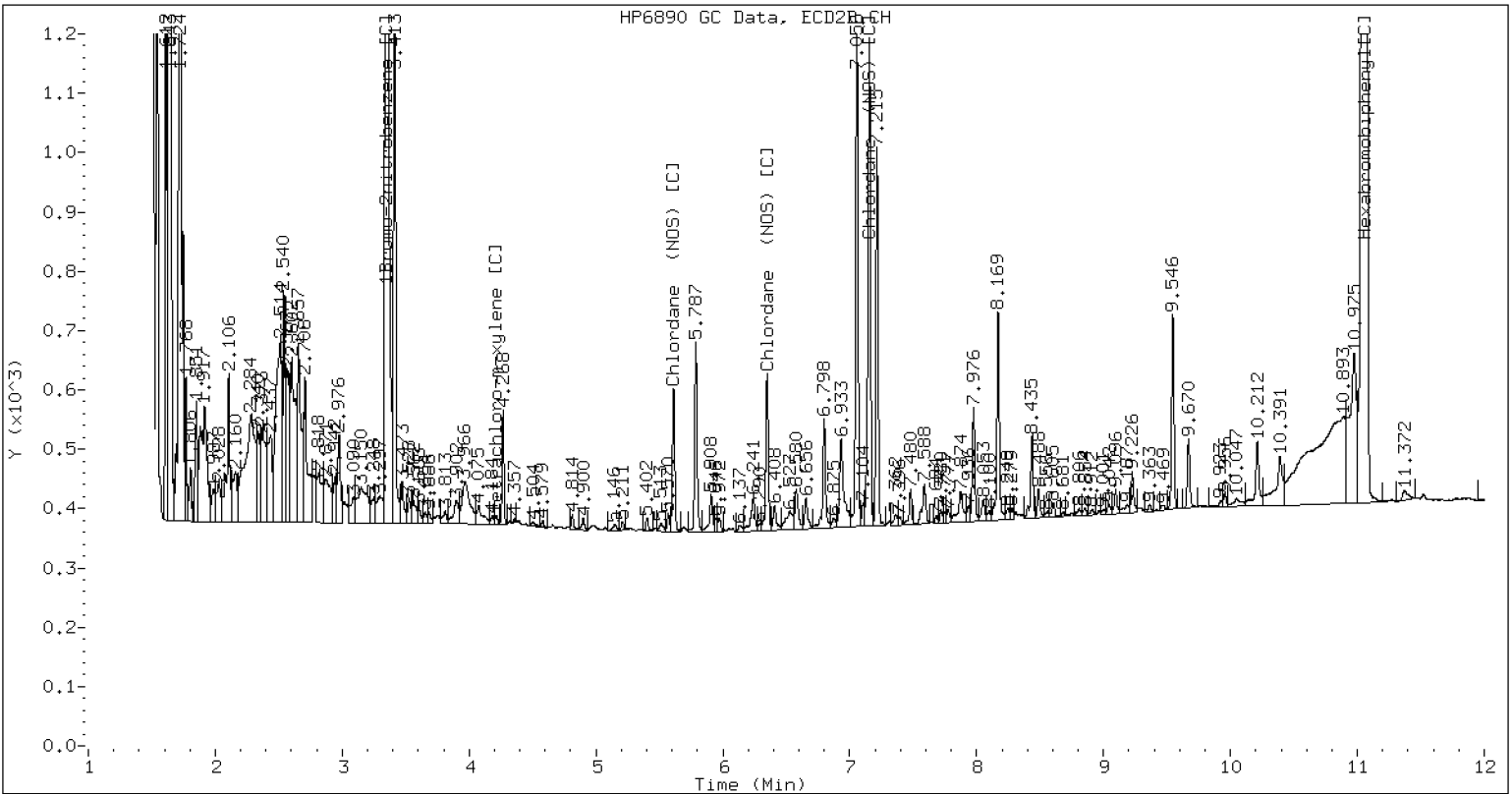
| Cpnd | Peak# | RT | STX-CLP Col | | | Peak# | RT | CLP2 Col | | |
|------------------------------------|-------|-------|-------------|--------|---------------------------------|-------|-------|----------|--------|---------|
| | | | Shift | Height | Amount | | | Shift | Height | Amount |
| Chlordane (NOS) | 1 | 5.593 | 0.000 | 5054 | 13.1 | 1 | 5.612 | -0.000 | 6415 | 12.8 |
| Chlordane (NOS) | 2 | 6.271 | -0.000 | 15913 | 12.4 | 2 | 6.349 | -0.000 | 7689 | 13.7 |
| Chlordane (NOS) | 3 | 6.399 | 0.000 | 29332 | 13.1 | 3 | 7.155 | -0.001 | 23386 | 12.3 |
| Total STX-CLPAve (3 peaks): 12.882 | | | | | Total CLP2Ave (3 peaks): 12.916 | | | | | RPD = 0 |
| Corrected Ave (3 peaks): 12.882 | | | | | Corrected Ave (3 peaks): 12.916 | | | | | RPD = 0 |

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20221214.b/B20221214.b/22121421.D SEQ-CAL1A CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121421.D
Data file 2: /20221214.b/B20221214.b/22121421.D
Method: \20221214.b\PEST.m
Compound Sublist: TECHCHLOR.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL1A
Client ID:
Injection Date: 15-DEC-2022 01:24
Report Date: 12/15/2022 09:09
Units: ng/mL
Dilution Factor: 1.000

| STX-CLP Col | | CLP2 Col | | STX-CLP | CLP2 | | |
|-------------|----------------|----------|----------------|---------|--------|-----|---------------|
| RT | Shift Response | RT | Shift Response | on col | on col | RPD | Compound/Flag |

=====

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121422.D
Data file 2: /20221214.b/B20221214.b/22121422.D
Method: \20221214.b\PEST.m
Compound Sublist: TECHCHLOR.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL2A
Client ID:
Injection Date: 15-DEC-2022 01:42
Report Date: 12/16/2022 15:20
Units: ng/mL
Dilution Factor: 1.000

| RT | STX-CLP Col Shift Response | CLP2 Col Shift Response | STX-CLP on col | CLP2 on col | RPD | Compound/Flag | |
|------|-------------------------------|----------------------------|-------------------|----------------|------|---------------|----------------------|
| ---- | | ---- | | 0.00 | 0.00 | --- | Tetrachloro-m-xylene |
| ---- | | ---- | | 0.00 | 0.00 | --- | Decachlorobiphenyl |

* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

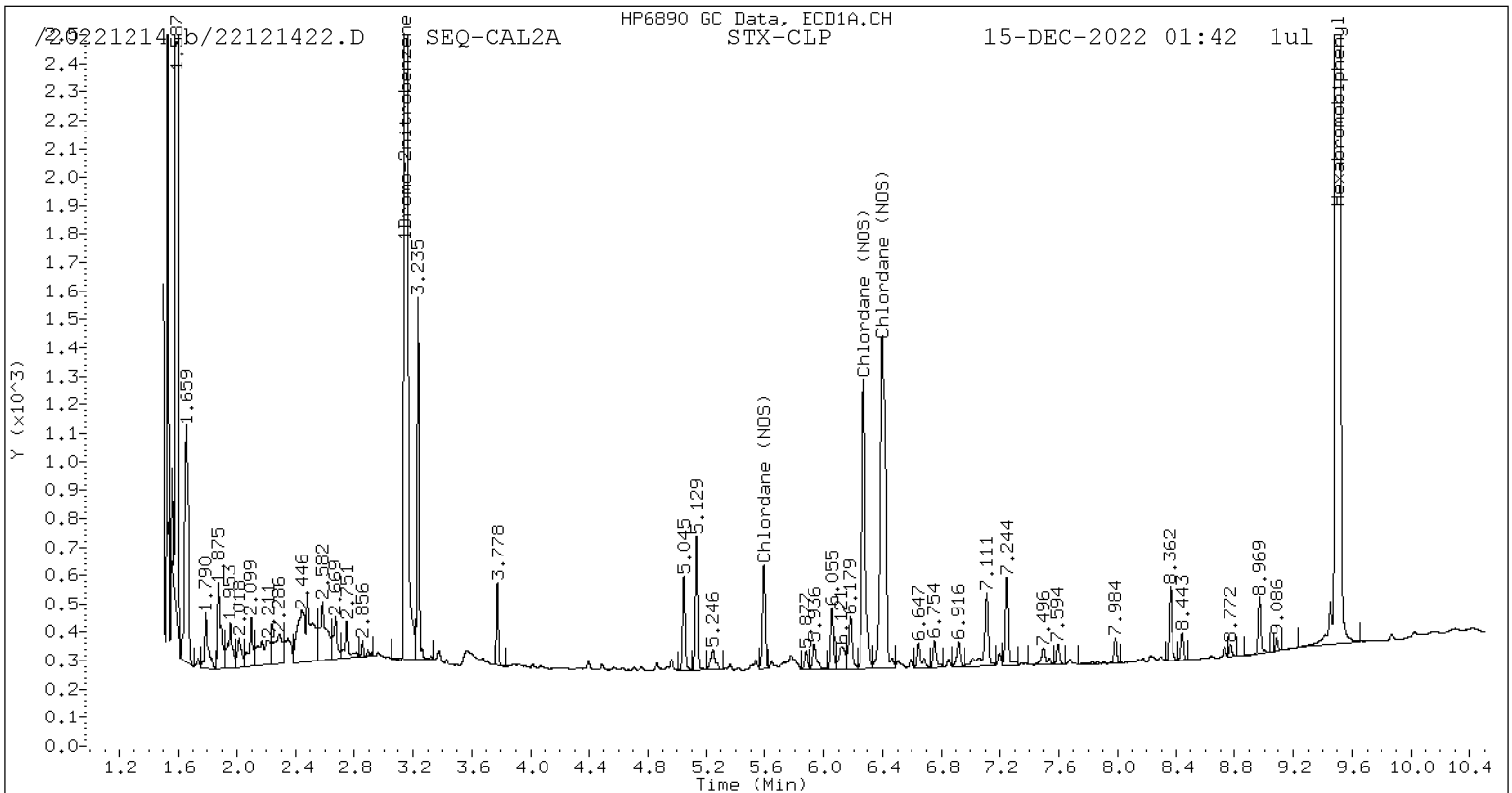
| Column 1 | | | |
|--------------------|----------------|-------------|-------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 710650 | 611280 | -14.0 |
| Hexabromobiphenyl | 641833 | 704720 | 9.8 |

| Column 2 | | | |
|--------------------|----------------|-------------|-------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 1058848 | 793365 | -25.1 |
| Hexabromobiphenyl | 797125 | 1083049 | 35.9 |

* Standard Areas taken from Initial Cal Level 5
 Initial Calibration Date: 14-DEC-2022
 <- Indicates standard response outside Limits (-50 to +100%)

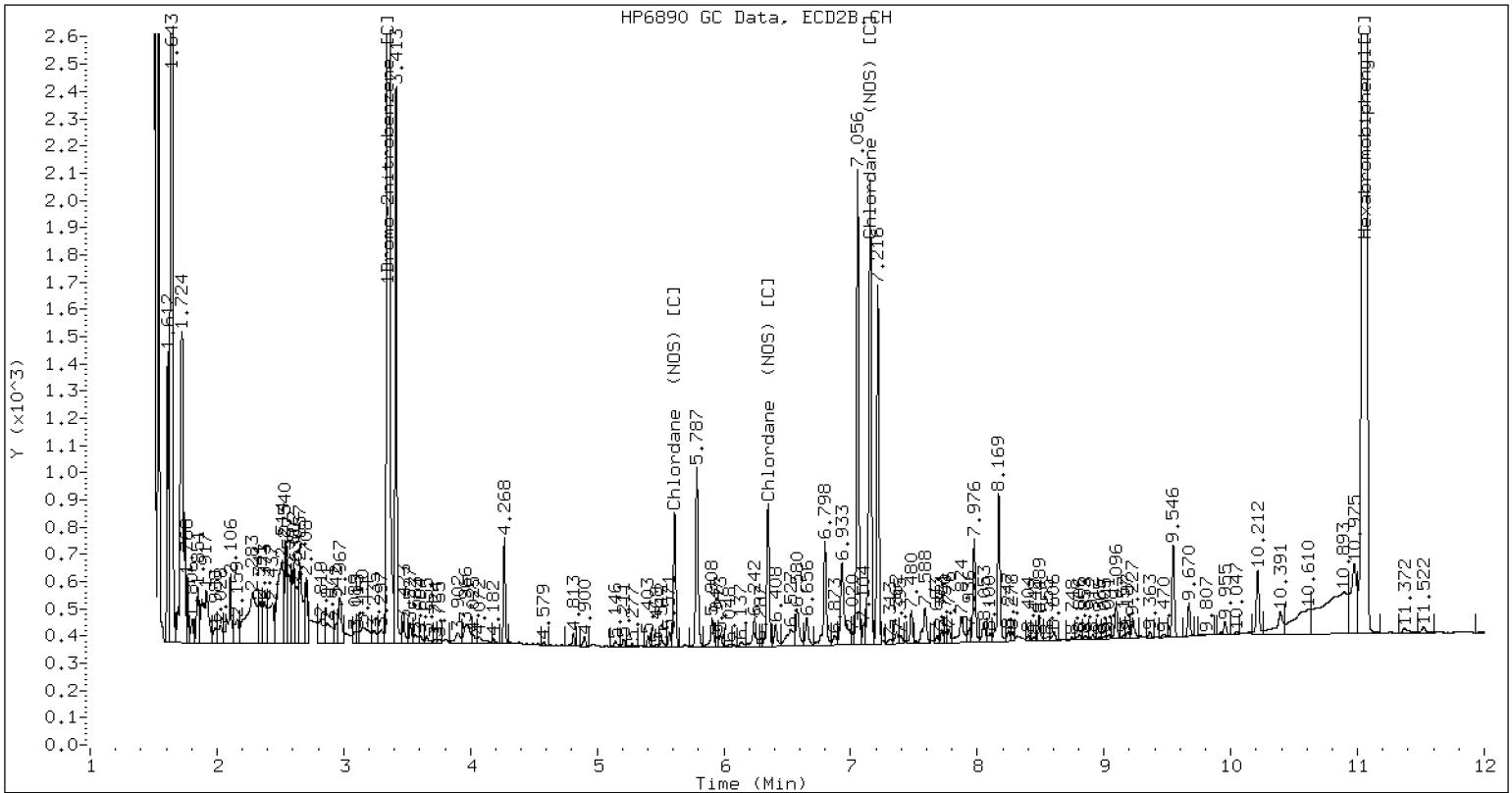
| Cpnd | Peak# | RT | STX-CLP Col | | | Peak# | RT | CLP2 Col | | |
|------------------------------------|-------|-------|-------------|--------|---------------------------------|-------|-------|----------|--------|---------|
| | | | Shift | Height | Amount | | | Shift | Height | Amount |
| Chlordane (NOS) | 1 | 5.593 | 0.000 | 10046 | 25.5 | 1 | 5.612 | -0.000 | 12488 | 24.4 |
| Chlordane (NOS) | 2 | 6.271 | -0.000 | 32715 | 25.0 | 2 | 6.348 | -0.001 | 15023 | 26.1 |
| Chlordane (NOS) | 3 | 6.399 | 0.000 | 58016 | 25.4 | 3 | 7.155 | -0.000 | 48236 | 24.8 |
| Total STX-CLPAve (3 peaks): 25.309 | | | | | Total CLP2Ave (3 peaks): 25.077 | | | | | RPD = 1 |
| Corrected Ave (3 peaks): 25.309 | | | | | Corrected Ave (3 peaks): 25.077 | | | | | RPD = 1 |

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20221214.b/B20221214.b/22121422.D SEQ-CAL2A CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121422.D
Data file 2: /20221214.b/B20221214.b/22121422.D
Method: \20221214.b\PEST.m
Compound Sublist: TECHCHLOR.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL2A
Client ID:
Injection Date: 15-DEC-2022 01:42
Report Date: 12/15/2022 09:09
Units: ng/mL
Dilution Factor: 1.000

| STX-CLP Col | CLP2 Col | STX-CLP | CLP2 | RPD | Compound/Flag |
|-------------|----------------|---------|----------------|---------------|---------------|
| RT | Shift Response | RT | Shift Response | on col on col | |

=====

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121423.D
 Data file 2: /20221214.b/B20221214.b/22121423.D
 Method: \20221214.b\PEST.m
 Compound Sublist: TECHCHLOR.sub
 Instrument, Inj. Vol.: ecd6.i, 1ul
 Operator: JGR

ARI ID: SEQ-CAL3A
 Client ID:
 Injection Date: 15-DEC-2022 01:59
 Report Date: 12/16/2022 15:20
 Units: ng/mL
 Dilution Factor: 1.000

| RT | STX-CLP Col Shift Response | RT | CLP2 Col Shift Response | STX-CLP on col | CLP2 on col | RPD | Compound/Flag |
|------|-------------------------------|------|----------------------------|-------------------|----------------|-----|----------------------|
| ---- | | ---- | | 0.00 | 0.00 | --- | Tetrachloro-m-xylene |
| ---- | | ---- | | 0.00 | 0.00 | --- | Decachlorobiphenyl |

* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

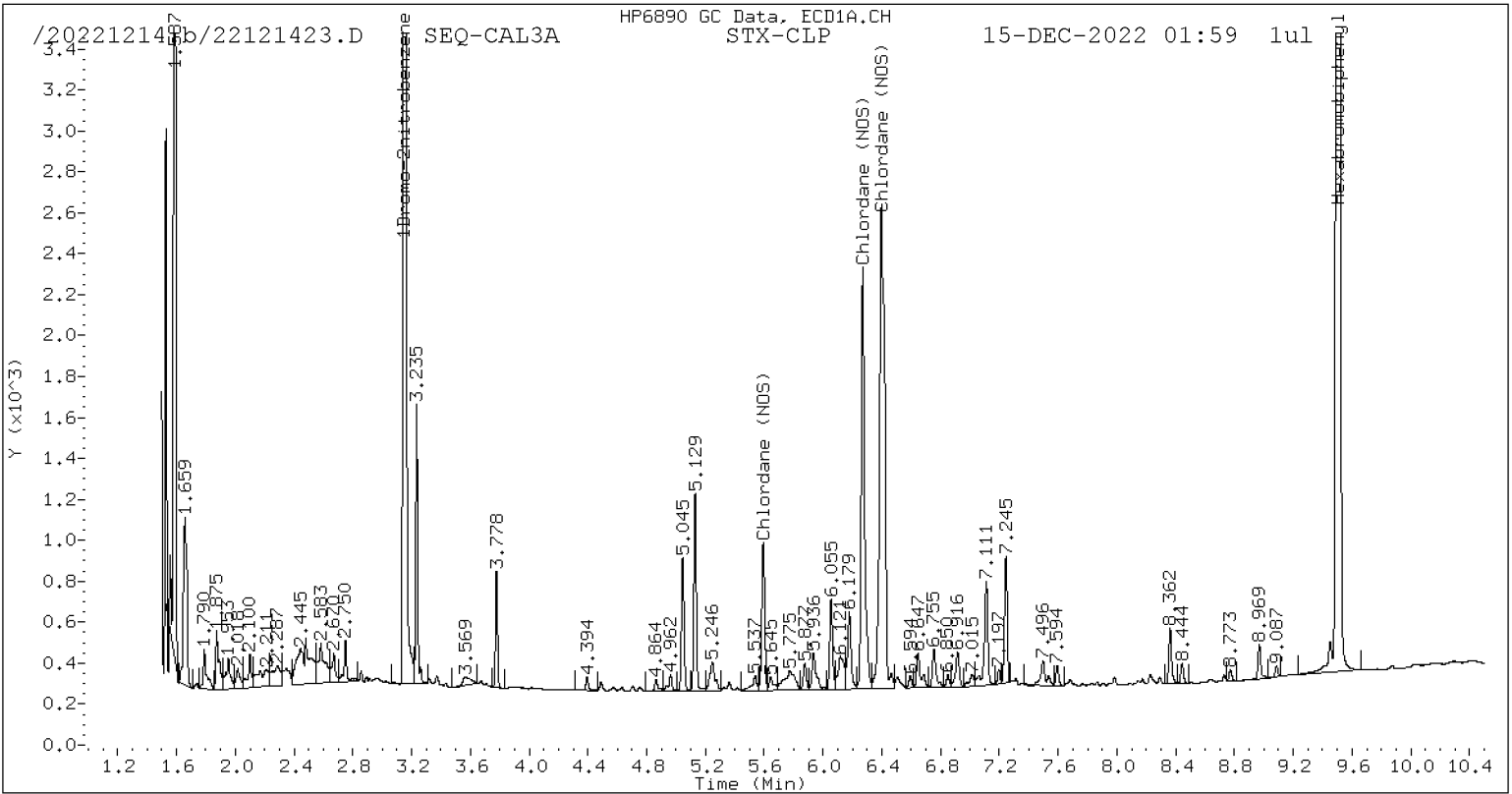
| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|-------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 710650 | 592438 | -16.6 |
| Hexabromobiphenyl | 641833 | 685225 | 6.8 |

| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|-------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 1058848 | 769029 | -27.4 |
| Hexabromobiphenyl | 797125 | 1054742 | 32.3 |

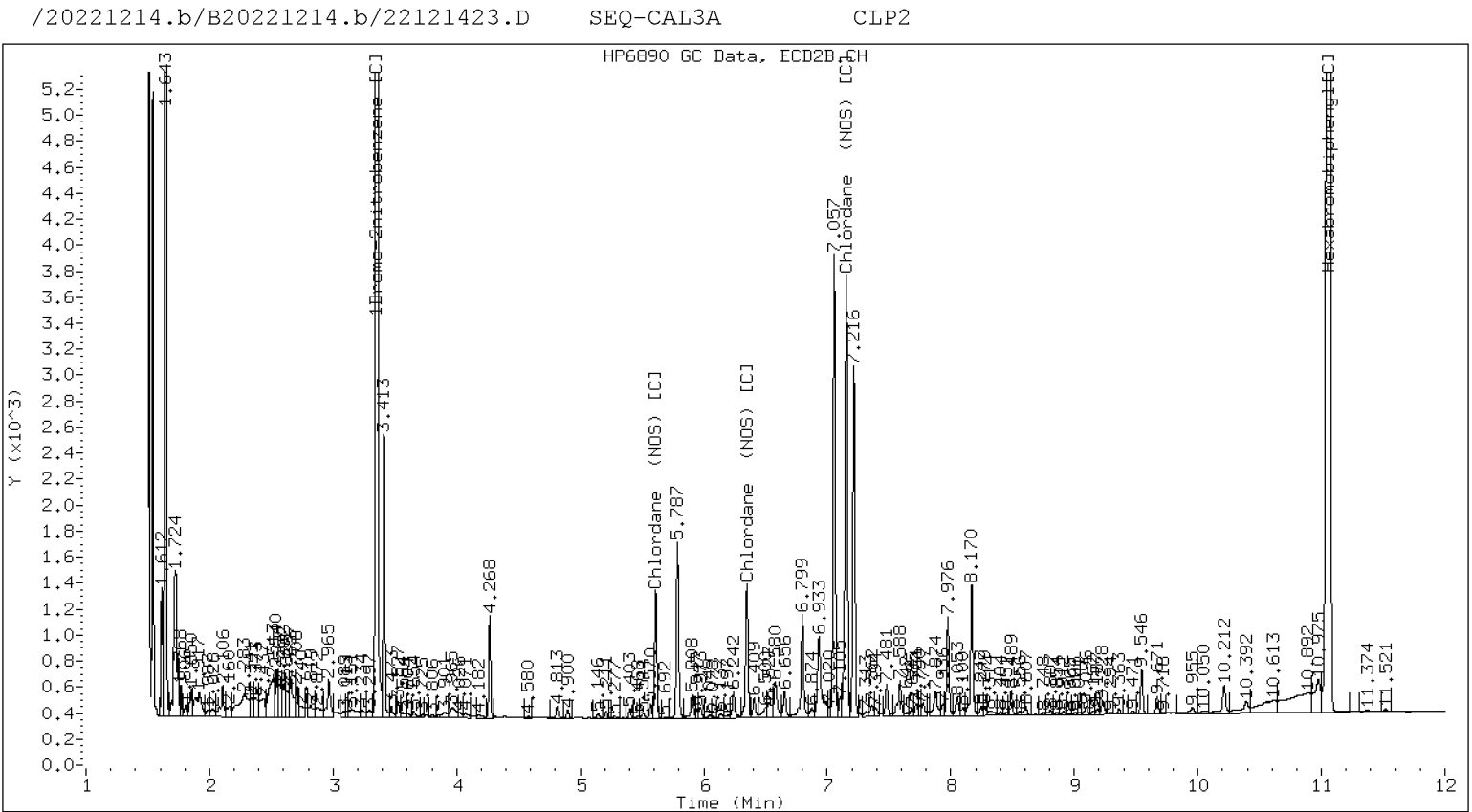
* Standard Areas taken from Initial Cal Level 5
 Initial Calibration Date: 14-DEC-2022
 <- Indicates standard response outside Limits (-50 to +100%)

| Cpnd | Peak# | RT | STX-CLP Col | | | Peak# | RT | CLP2 Col | | |
|------------------------------------|-------|-------|-------------|--------|---------------------------------|-------|-------|----------|--------|---------|
| | | | Shift | Height | Amount | | | Shift | Height | Amount |
| Chlordane (NOS) | 1 | 5.593 | 0.001 | 20502 | 53.5 | 1 | 5.612 | -0.000 | 24816 | 49.7 |
| Chlordane (NOS) | 2 | 6.271 | -0.000 | 66320 | 52.2 | 2 | 6.349 | 0.000 | 29114 | 51.9 |
| Chlordane (NOS) | 3 | 6.399 | 0.000 | 116820 | 52.6 | 3 | 7.155 | -0.000 | 98401 | 51.9 |
| Total STX-CLPAve (3 peaks): 52.767 | | | | | Total CLP2Ave (3 peaks): 51.179 | | | | | RPD = 3 |
| Corrected Ave (3 peaks): 52.767 | | | | | Corrected Ave (3 peaks): 51.179 | | | | | RPD = 3 |

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121423.D
Data file 2: /20221214.b/B20221214.b/22121423.D
Method: \20221214.b\PEST.m
Compound Sublist: TECHCHLOR.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL3A
Client ID:
Injection Date: 15-DEC-2022 01:59
Report Date: 12/15/2022 09:09
Units: ng/mL
Dilution Factor: 1.000

| RT | STX-CLP Col Shift Response | | CLP2 Col Shift Response | | STX-CLP on col | CLP2 on col | RPD | Compound/Flag |
|----|-------------------------------|--|----------------------------|--|-------------------|----------------|-----|---------------|
|----|-------------------------------|--|----------------------------|--|-------------------|----------------|-----|---------------|

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Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121424.D
Data file 2: /20221214.b/B20221214.b/22121424.D
Method: \20221214.b\PEST.m
Compound Sublist: TECHCHLOR.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL4A
Client ID:
Injection Date: 15-DEC-2022 02:17
Report Date: 12/16/2022 15:20
Units: ng/mL
Dilution Factor: 1.000

| RT | STX-CLP Col Shift Response | CLP2 Col Shift Response | STX-CLP on col | CLP2 on col | RPD | Compound/Flag | |
|------|-------------------------------|----------------------------|-------------------|----------------|------|---------------|----------------------|
| ---- | | ---- | | 0.00 | 0.00 | --- | Tetrachloro-m-xylene |
| ---- | | ---- | | 0.00 | 0.00 | --- | Decachlorobiphenyl |

* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|-------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 710650 | 584808 | -17.7 |
| Hexabromobiphenyl | 641833 | 675665 | 5.3 |

| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|-------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 1058848 | 758204 | -28.4 |
| Hexabromobiphenyl | 797125 | 1039488 | 30.4 |

* Standard Areas taken from Initial Cal Level 5
 Initial Calibration Date: 14-DEC-2022
 <- Indicates standard response outside Limits (-50 to +100%)

| Cpnd | Peak# | RT | STX-CLP Col | | | Peak# | RT | CLP2 Col | | |
|-------------------------------------|-------|-------|-------------|--------|----------------------------------|-------|-------|----------|--------|---------|
| | | | Shift | Height | Amount | | | Shift | Height | Amount |
| Chlordane (NOS) | 1 | 5.593 | -0.000 | 39696 | 105.0 | 1 | 5.611 | -0.001 | 49889 | 101.4 |
| Chlordane (NOS) | 2 | 6.271 | -0.000 | 131726 | 105.2 | 2 | 6.348 | -0.001 | 56608 | 102.5 |
| Chlordane (NOS) | 3 | 6.398 | -0.001 | 229050 | 104.6 | 3 | 7.155 | -0.000 | 195665 | 104.7 |
| Total STX-CLPAve (3 peaks): 104.931 | | | | | Total CLP2Ave (3 peaks): 102.854 | | | | | RPD = 2 |
| Corrected Ave (3 peaks): 104.931 | | | | | Corrected Ave (3 peaks): 102.854 | | | | | RPD = 2 |

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121424.D
Data file 2: /20221214.b/B20221214.b/22121424.D
Method: \20221214.b\PEST.m
Compound Sublist: TECHCHLOR.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL4A
Client ID:
Injection Date: 15-DEC-2022 02:17
Report Date: 12/15/2022 09:09
Units: ng/mL
Dilution Factor: 1.000

| STX-CLP Col | CLP2 Col | STX-CLP | CLP2 | RPD | Compound/Flag | |
|-------------|----------------|---------|----------------|--------|---------------|--|
| RT | Shift Response | RT | Shift Response | on col | on col | |

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Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121425.D
 Data file 2: /20221214.b/B20221214.b/22121425.D
 Method: \20221214.b\PEST.m
 Compound Sublist: TECHCHLOR.sub
 Instrument, Inj. Vol.: ecd6.i, 1ul
 Operator: JGR

ARI ID: SEQ-CAL5A
 Client ID:
 Injection Date: 15-DEC-2022 02:35
 Report Date: 12/16/2022 15:20
 Units: ng/mL
 Dilution Factor: 1.000

| RT | STX-CLP Col Shift Response | RT | CLP2 Col Shift Response | STX-CLP on col | CLP2 on col | RPD | Compound/Flag |
|------|-------------------------------|------|----------------------------|-------------------|----------------|-----|----------------------|
| ---- | | ---- | | 0.00 | 0.00 | --- | Tetrachloro-m-xylene |
| ---- | | ---- | | 0.00 | 0.00 | --- | Decachlorobiphenyl |

* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

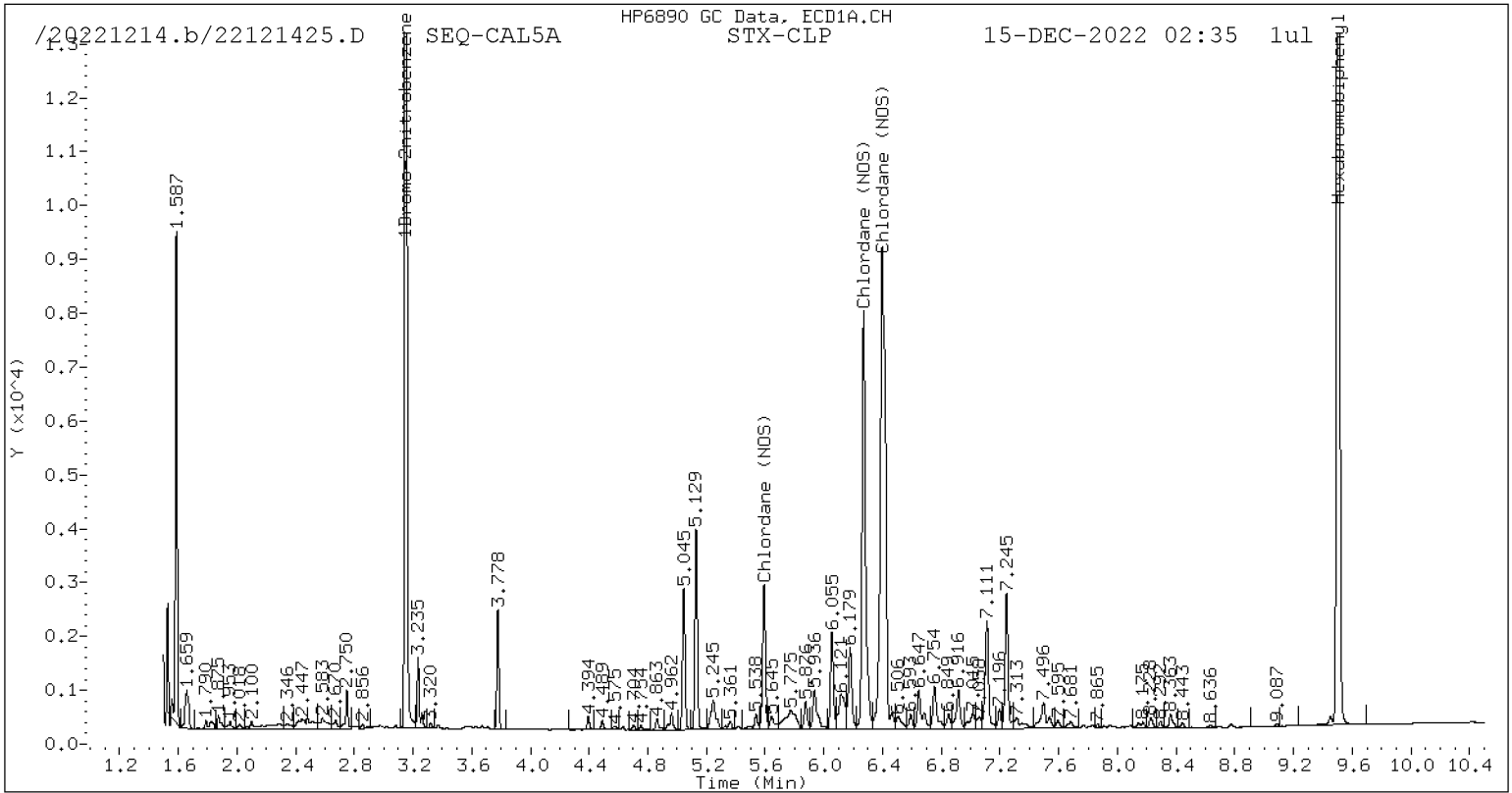
| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|-------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 710650 | 612592 | -13.8 |
| Hexabromobiphenyl | 641833 | 705251 | 9.9 |

| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|-------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 1058848 | 792856 | -25.1 |
| Hexabromobiphenyl | 797125 | 1079718 | 35.5 |

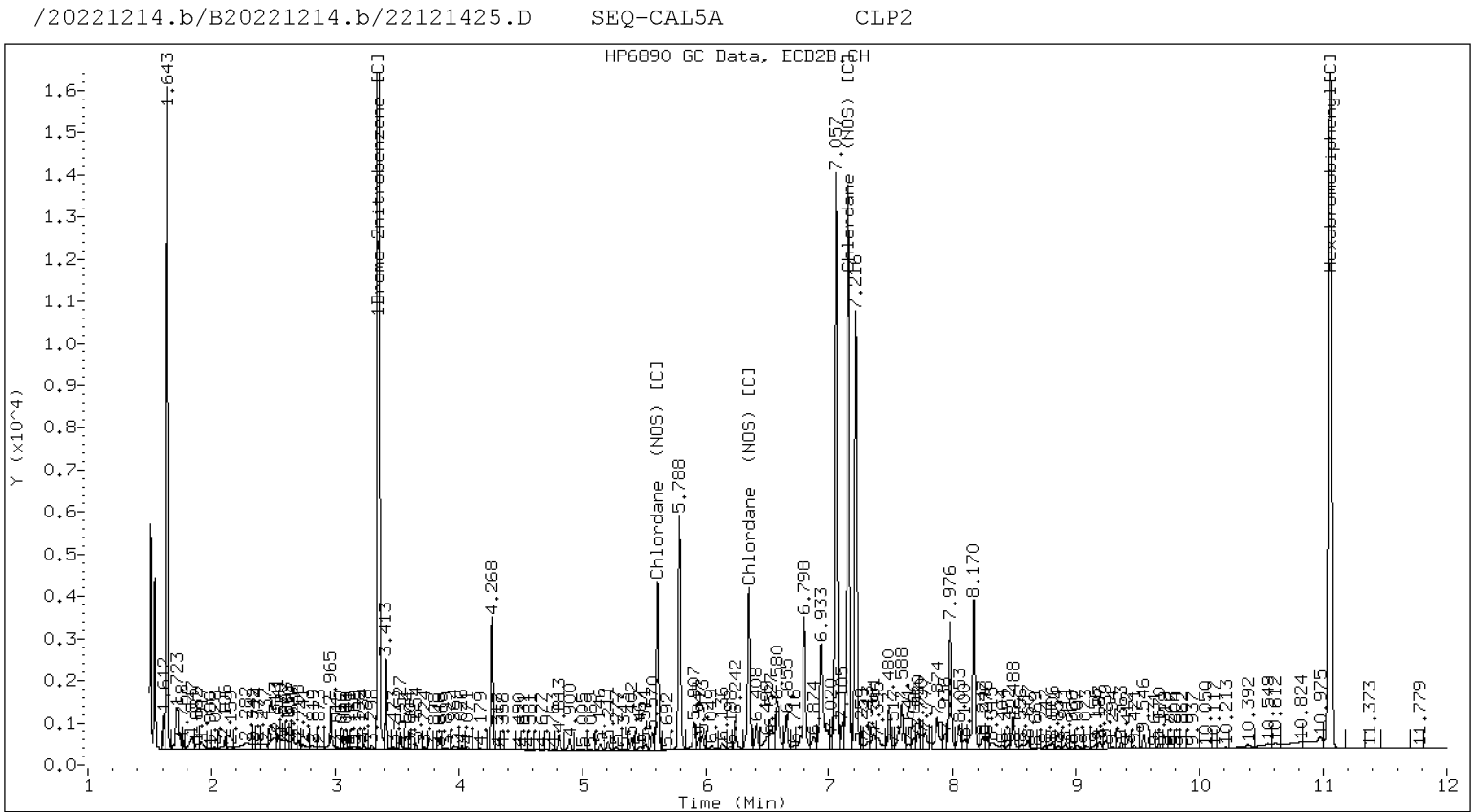
* Standard Areas taken from Initial Cal Level 5
 Initial Calibration Date: 14-DEC-2022
 <- Indicates standard response outside Limits (-50 to +100%)

| Cpnd | Peak# | RT | STX-CLP Col | | | Peak# | RT | CLP2 Col | | |
|-------------------------------------|-------|-------|-------------|--------|----------------------------------|-------|-------|----------|--------|---------|
| | | | Shift | Height | Amount | | | Shift | Height | Amount |
| Chlordane (NOS) | 1 | 5.593 | 0.000 | 77307 | 196.0 | 1 | 5.612 | -0.000 | 101527 | 198.7 |
| Chlordane (NOS) | 2 | 6.271 | 0.000 | 261078 | 199.7 | 2 | 6.349 | -0.001 | 110757 | 193.0 |
| Chlordane (NOS) | 3 | 6.399 | 0.000 | 449301 | 196.5 | 3 | 7.155 | -0.000 | 389197 | 200.5 |
| Total STX-CLPAve (3 peaks): 197.408 | | | | | Total CLP2Ave (3 peaks): 197.390 | | | | | RPD = 0 |
| Corrected Ave (3 peaks): 197.408 | | | | | Corrected Ave (3 peaks): 197.390 | | | | | RPD = 0 |

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121425.D
Data file 2: /20221214.b/B20221214.b/22121425.D
Method: \20221214.b\PEST.m
Compound Sublist: TECHCHLOR.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL5A
Client ID:
Injection Date: 15-DEC-2022 02:35
Report Date: 12/15/2022 09:09
Units: ng/mL
Dilution Factor: 1.000

| STX-CLP Col | CLP2 Col | STX-CLP | CLP2 | RPD | Compound/Flag | |
|-------------|----------------|---------|----------------|--------|---------------|--|
| RT | Shift Response | RT | Shift Response | on col | on col | |

=====

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121426.D
Data file 2: /20221214.b/B20221214.b/22121426.D
Method: \20221214.b\PEST.m
Compound Sublist: TECHCHLOR.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL6A
Client ID:
Injection Date: 15-DEC-2022 02:53
Report Date: 12/16/2022 15:20
Units: ng/mL
Dilution Factor: 1.000

| RT | STX-CLP Col Shift Response | CLP2 Col Shift Response | STX-CLP on col | CLP2 on col | RPD | Compound/Flag | |
|------|-------------------------------|----------------------------|-------------------|----------------|------|---------------|----------------------|
| ---- | | ---- | | 0.00 | 0.00 | --- | Tetrachloro-m-xylene |
| ---- | | ---- | | 0.00 | 0.00 | --- | Decachlorobiphenyl |

* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|-------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 710650 | 603526 | -15.1 |
| Hexabromobiphenyl | 641833 | 699031 | 8.9 |

| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|-------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 1058848 | 779405 | -26.4 |
| Hexabromobiphenyl | 797125 | 1068976 | 34.1 |

* Standard Areas taken from Initial Cal Level 5
 Initial Calibration Date: 14-DEC-2022
 <- Indicates standard response outside Limits (-50 to +100%)

| Cpnd | Peak# | RT | STX-CLP Col | | | Peak# | RT | CLP2 Col | | |
|-------------------------------------|-------|-------|-------------|--------|----------------------------------|-------|-------|----------|--------|---------|
| | | | Shift | Height | Amount | | | Shift | Height | Amount |
| Chlordane (NOS) | 1 | 5.592 | -0.000 | 146950 | 375.8 | 1 | 5.612 | -0.000 | 203386 | 402.0 |
| Chlordane (NOS) | 2 | 6.271 | -0.000 | 503310 | 388.5 | 2 | 6.349 | -0.000 | 212637 | 374.2 |
| Chlordane (NOS) | 3 | 6.399 | 0.000 | 857451 | 378.4 | 3 | 7.155 | -0.000 | 752631 | 391.6 |
| Total STX-CLPAve (3 peaks): 380.894 | | | | | Total CLP2Ave (3 peaks): 389.290 | | | | | RPD = 2 |
| Corrected Ave (3 peaks): 380.894 | | | | | Corrected Ave (3 peaks): 389.290 | | | | | RPD = 2 |

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121426.D
Data file 2: /20221214.b/B20221214.b/22121426.D
Method: \20221214.b\PEST.m
Compound Sublist: TECHCHLOR.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL6A
Client ID:
Injection Date: 15-DEC-2022 02:53
Report Date: 12/15/2022 09:09
Units: ng/mL
Dilution Factor: 1.000

| STX-CLP Col | | CLP2 Col | | STX-CLP | CLP2 | | |
|-------------|----------------|----------|----------------|---------|--------|-----|---------------|
| RT | Shift Response | RT | Shift Response | on col | on col | RPD | Compound/Flag |

=====

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121427.D
 Data file 2: /20221214.b/B20221214.b/22121427.D
 Method: \20221214.b\PEST.m
 Compound Sublist: TECHCHLOR.sub
 Instrument, Inj. Vol.: ecd6.i, 1ul
 Operator: JGR

ARI ID: SEQ-CAL7A
 Client ID:
 Injection Date: 15-DEC-2022 03:11
 Report Date: 12/16/2022 15:20
 Units: ng/mL
 Dilution Factor: 1.000

| STX-CLP Col | | | CLP2 Col | | | STX-CLP | CLP2 | RPD | Compound/Flag |
|-------------|-------|----------|----------|-------|----------|---------|--------|-----|----------------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | |
| ---- | | | ---- | | | 0.00 | 0.00 | --- | Tetrachloro-m-xylene |
| 9.380 | 0.025 | 1930 | ---- | | | 0.31 | 0.00 | --- | Decachlorobiphenyl |

- * Indicates RPD > 40%
- A Indicates Peak Height was used for Column 1 quantitation instead of Area
- B Indicates Peak Height was used for Column 2 quantitation instead of Area
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

- ~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

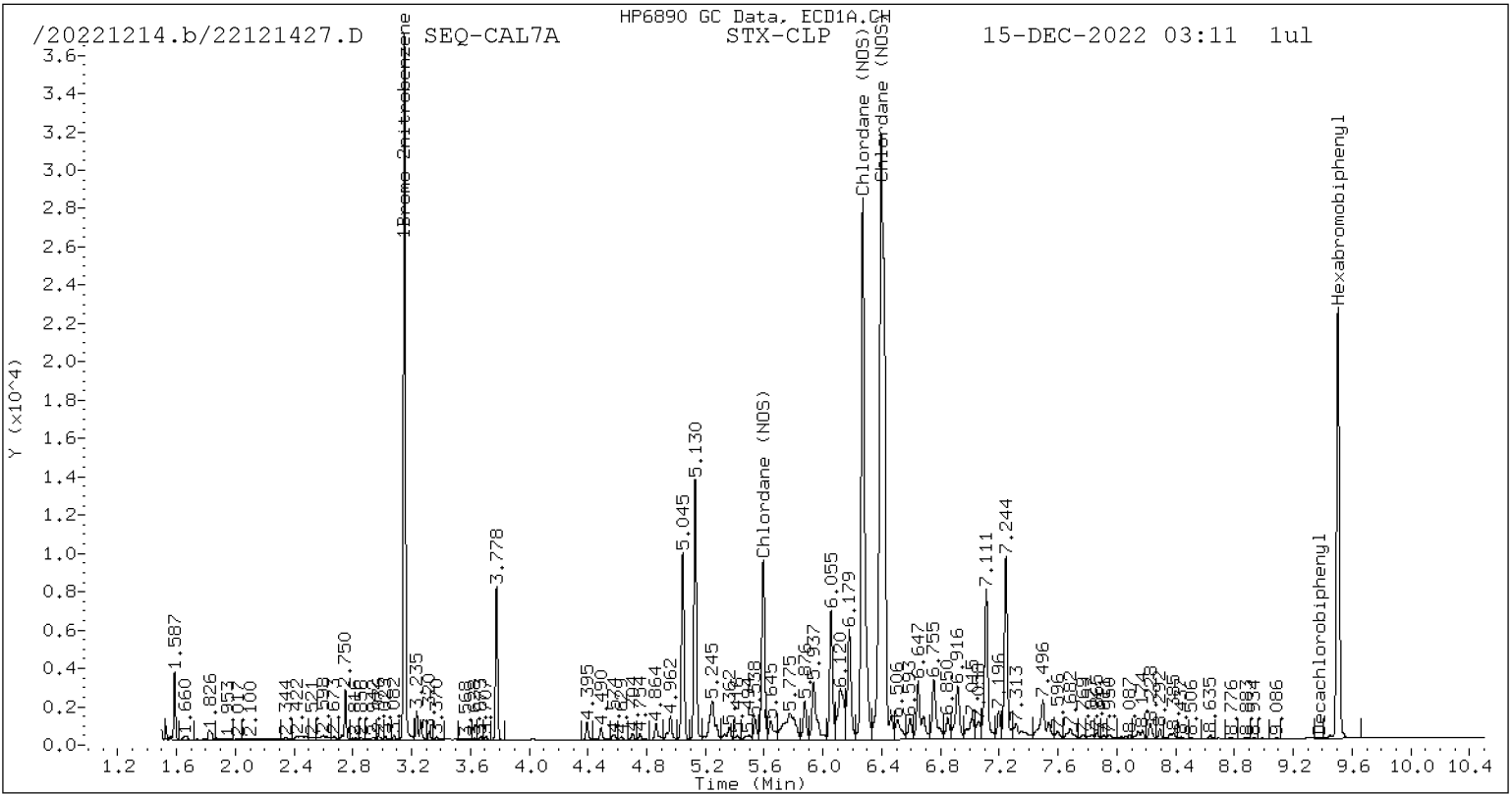
| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|-------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 710650 | 610159 | -14.1 |
| Hexabromobiphenyl | 641833 | 692215 | 7.8 |

| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|-------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 1058848 | 790388 | -25.4 |
| Hexabromobiphenyl | 797125 | 1059143 | 32.9 |

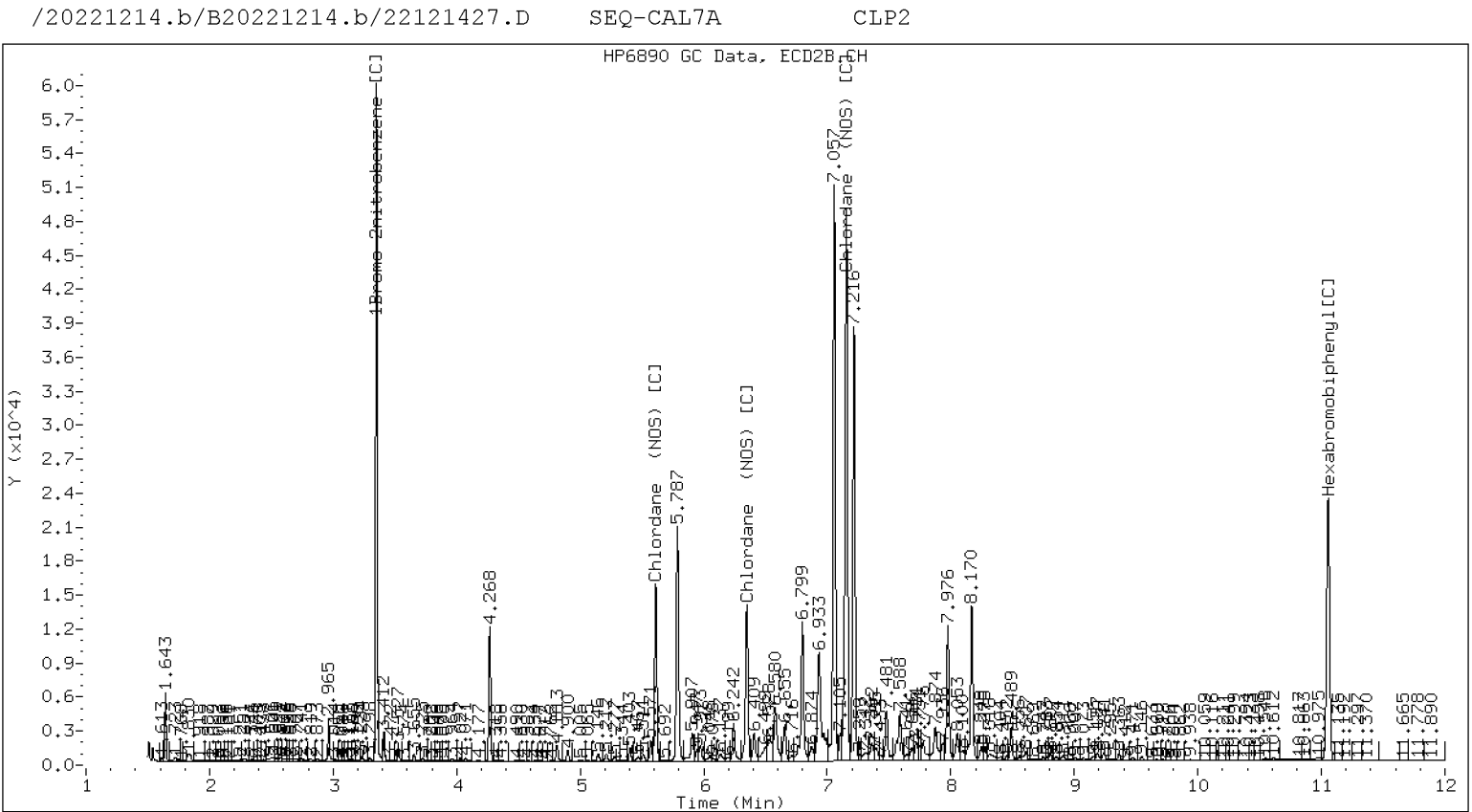
* Standard Areas taken from Initial Cal Level 5
 Initial Calibration Date: 14-DEC-2022
 <- Indicates standard response outside Limits (-50 to +100%)

| Cpnd | Peak# | RT | STX-CLP Col | | | Peak# | RT | CLP2 Col | | |
|-------------------------------------|-------|-------|-------------|---------|----------------------------------|-------|-------|----------|---------|---------|
| | | | Shift | Height | Amount | | | Shift | Height | Amount |
| Chlordane (NOS) | 1 | 5.593 | 0.001 | 276980 | 715.3 | 1 | 5.612 | 0.000 | 398620 | 795.3 |
| Chlordane (NOS) | 2 | 6.271 | -0.000 | 961368 | 749.3 | 2 | 6.349 | 0.000 | 405170 | 719.7 |
| Chlordane (NOS) | 3 | 6.399 | -0.000 | 1631241 | 727.0 | 3 | 7.155 | 0.000 | 1462876 | 768.2 |
| Total STX-CLPAve (3 peaks): 730.539 | | | | | Total CLP2Ave (3 peaks): 761.064 | | | | | RPD = 4 |
| Corrected Ave (3 peaks): 730.539 | | | | | Corrected Ave (3 peaks): 761.064 | | | | | RPD = 4 |

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121427.D
Data file 2: /20221214.b/B20221214.b/22121427.D
Method: \20221214.b\PEST.m
Compound Sublist: TECHCHLOR.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL7A
Client ID:
Injection Date: 15-DEC-2022 03:11
Report Date: 12/15/2022 09:09
Units: ng/mL
Dilution Factor: 1.000

| STX-CLP Col | | CLP2 Col | | STX-CLP | CLP2 | | |
|-------------|----------------|----------|----------------|---------|--------|-----|---------------|
| RT | Shift Response | RT | Shift Response | on col | on col | RPD | Compound/Flag |

=====

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121428.D
Data file 2: /20221214.b/B20221214.b/22121428.D
Method: \20221214.b\PEST.m
Compound Sublist: TOXAPH.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL8A
Client ID:
Injection Date: 15-DEC-2022 03:29
Report Date: 12/16/2022 15:20
Units: ng/mL
Dilution Factor: 1.000

| STX-CLP Col | | | CLP2 Col | | | STX-CLP | CLP2 | RPD | Compound/Flag |
|-------------|-------|----------|----------|-------|----------|---------|--------|------|----------------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | |
| 3.828 | 0.000 | 8893 | 4.221 | 0.000 | 14795 | 0.95 | 0.98 | 4.0 | Tetrachloro-m-xylene |
| 9.355 | 0.000 | 15511 | 10.467 | 0.000 | 24896 | 2.54 | 2.86 | 11.7 | Decachlorobiphenyl |

* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

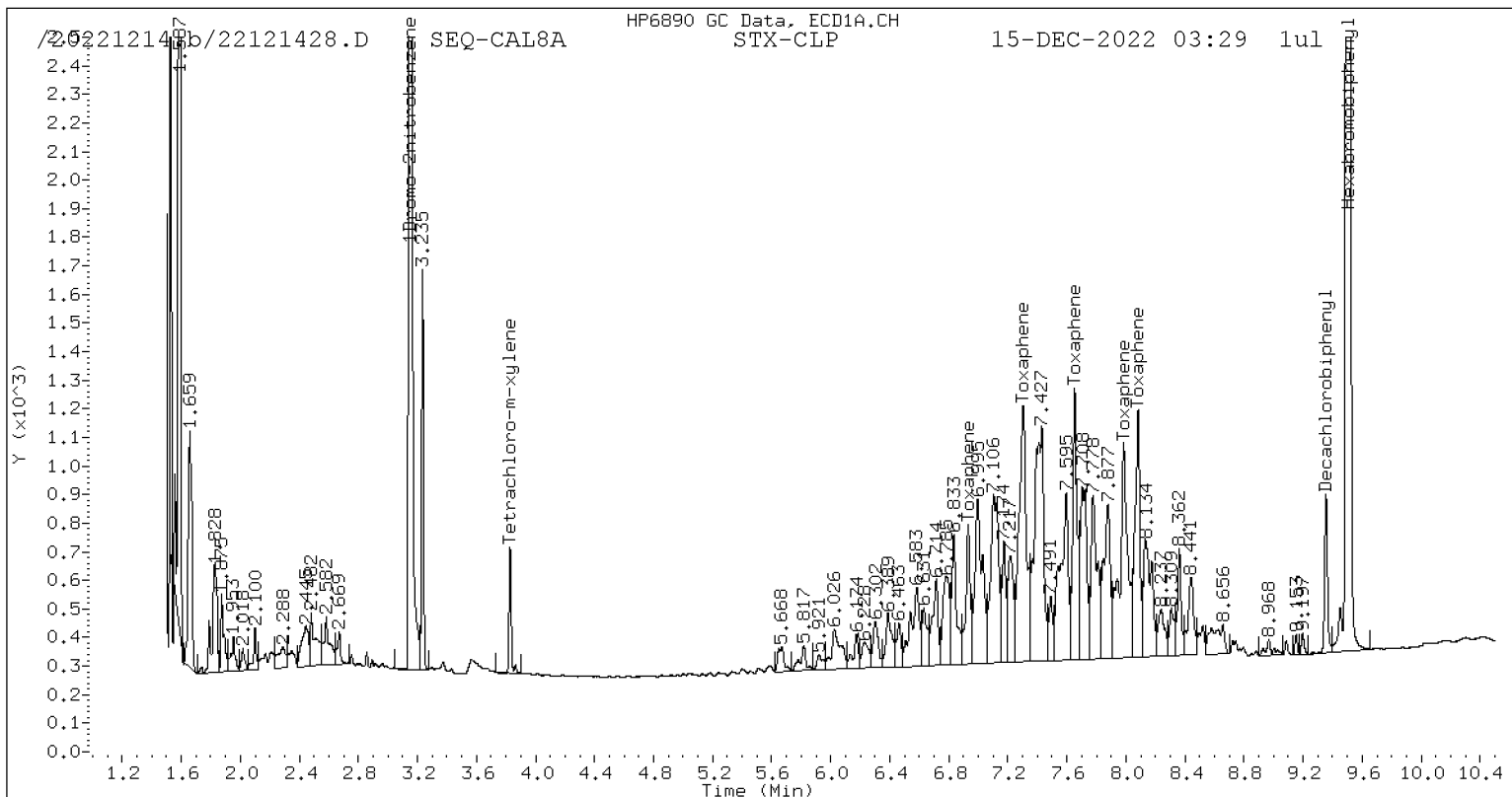
| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 710650 | 691781 | -2.7 |
| Hexabromobiphenyl | 641833 | 602865 | -6.1 |

| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 1058848 | 1068328 | 0.9 |
| Hexabromobiphenyl | 797125 | 788806 | -1.0 |

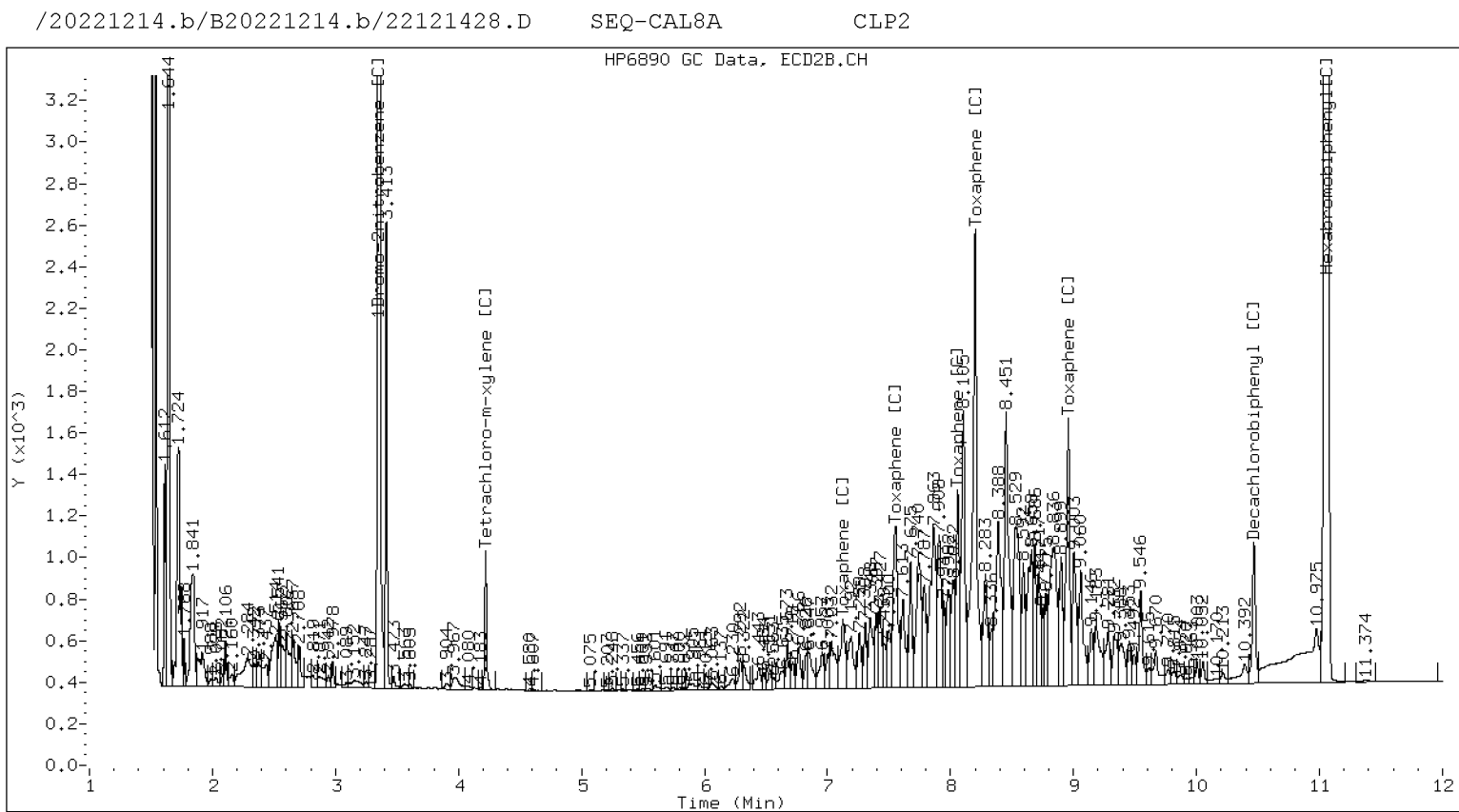
* Standard Areas taken from Initial Cal Level 5
 Initial Calibration Date: 14-DEC-2022
 <- Indicates standard response outside Limits (-50 to +100%)

| Cpnd | Peak# | RT | STX-CLP Col | | | Peak# | RT | CLP2 Col | | | | |
|-----------------------------|-------|-------|-------------|--------|---------|--------------------------|-------|----------|--------|--------|---------|---------|
| | | | Shift | Height | Amount | | | Shift | Height | Amount | | |
| Toxaphene | 1 | 6.931 | 0.000 | 20939 | 118.9 | 1 | 7.125 | -0.000 | 18390 | 124.1 | | |
| Toxaphene | 2 | 7.304 | 0.000 | 62921 | 127.5 | 2 | 7.553 | -0.000 | 43437 | 130.4 | | |
| Toxaphene | 3 | 7.653 | -0.000 | 40147 | 126.2 | 3 | 8.059 | -0.001 | 32235 | 127.1 | | |
| Toxaphene | 4 | 7.985 | -0.001 | 56816 | 133.6 | 4 | 8.201 | -0.001 | 109296 | 132.1 | | |
| Toxaphene | 5 | 8.082 | -0.000 | 39643 | 123.4 | 5 | 8.958 | -0.001 | 50997 | 125.7 | | |
| Total STX-CLPAve (5 peaks): | | | | | 125.907 | Total CLP2Ave (5 peaks): | | | | | 127.865 | RPD = 2 |
| Corrected Ave (5 peaks): | | | | | 125.907 | Corrected Ave (5 peaks): | | | | | 127.865 | RPD = 2 |

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121428.D
Data file 2: /20221214.b/B20221214.b/22121428.D
Method: \20221214.b\PEST.m
Compound Sublist: TOXAPH.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL8A
Client ID:
Injection Date: 15-DEC-2022 03:29
Report Date: 12/15/2022 09:09
Units: ng/mL
Dilution Factor: 1.000

| STX-CLP Col | CLP2 Col | STX-CLP | CLP2 | RPD | Compound/Flag | |
|-------------|----------------|---------|----------------|--------|---------------|--|
| RT | Shift Response | RT | Shift Response | on col | on col | |

=====

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121429.D
Data file 2: /20221214.b/B20221214.b/22121429.D
Method: \20221214.b\PEST.m
Compound Sublist: TOXAPH.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL9A
Client ID:
Injection Date: 15-DEC-2022 03:46
Report Date: 12/16/2022 15:20
Units: ng/mL
Dilution Factor: 1.000

| RT | STX-CLP Col Shift Response | CLP2 Col Shift Response | RT | STX-CLP on col | CLP2 on col | RPD | Compound/Flag |
|-------|-------------------------------|----------------------------|--------|-------------------|----------------|-----|----------------------|
| 3.828 | -0.000 | 18632 | 4.220 | 1.92 | 1.92 | 0.1 | Tetrachloro-m-xylene |
| 9.355 | 0.000 | 29179 | 10.467 | 4.64 | 4.98 | 7.1 | Decachlorobiphenyl |

- * Indicates RPD > 40%
- A Indicates Peak Height was used for Column 1 quantitation instead of Area
- B Indicates Peak Height was used for Column 2 quantitation instead of Area
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated
- ~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

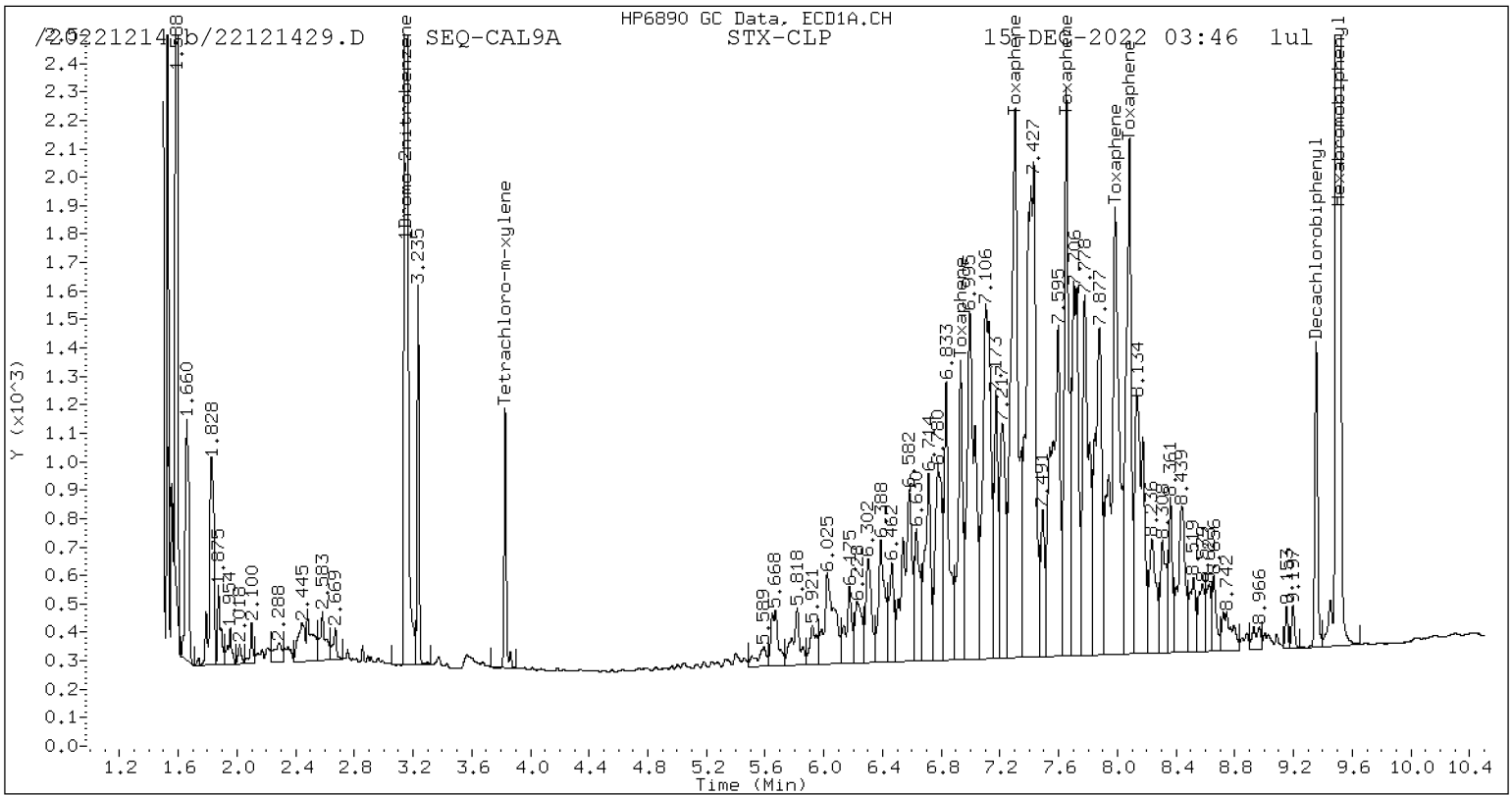
| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 710650 | 713620 | 0.4 |
| Hexabromobiphenyl | 641833 | 620026 | -3.4 |

| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|-----|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 1058848 | 1104488 | 4.3 |
| Hexabromobiphenyl | 797125 | 811719 | 1.8 |

* Standard Areas taken from Initial Cal Level 5
 Initial Calibration Date: 14-DEC-2022
 <- Indicates standard response outside Limits (-50 to +100%)

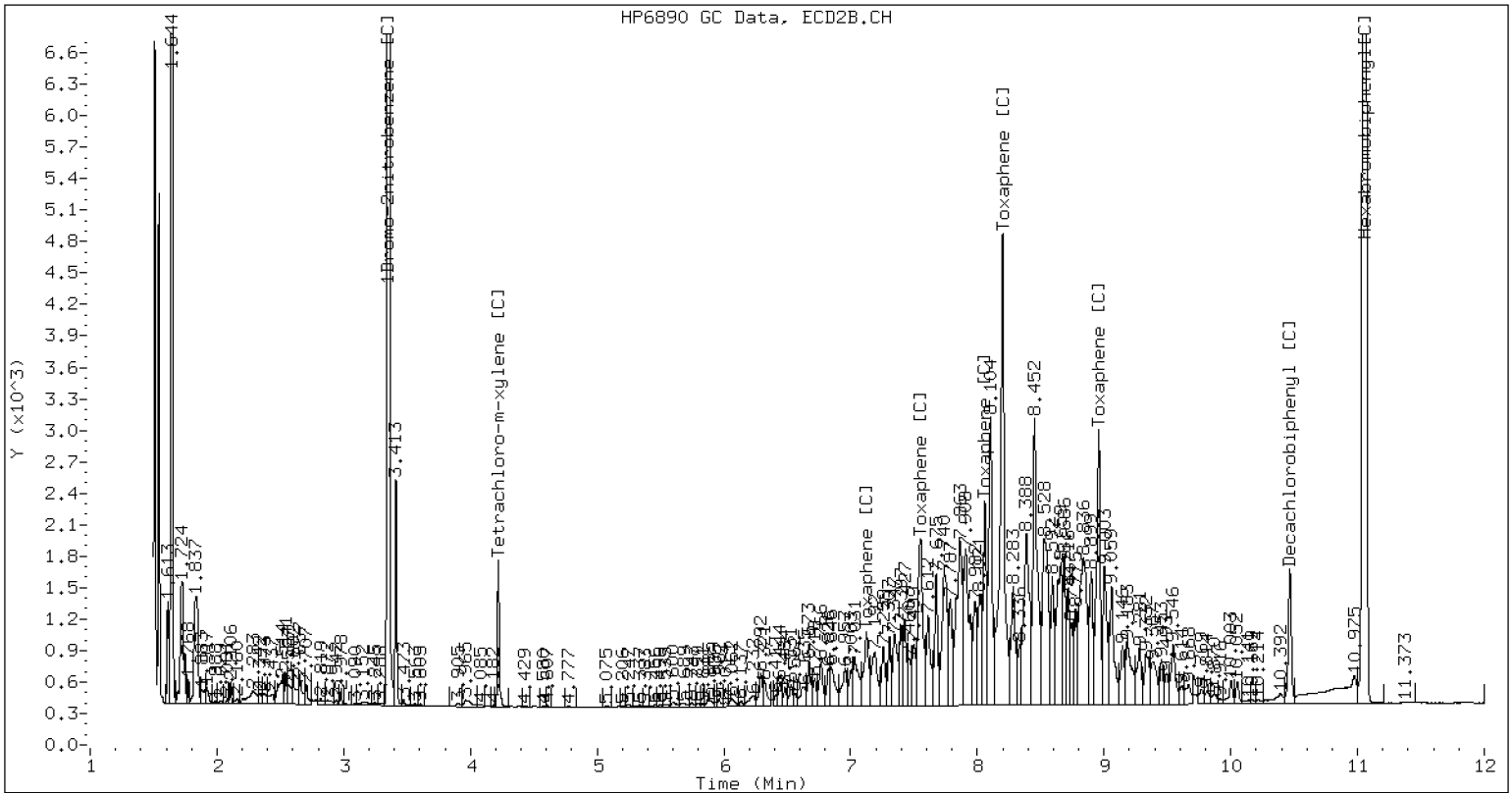
| Cpnd | Peak# | RT | STX-CLP Col | | | Peak# | RT | CLP2 Col | | | Amount |
|-------------------------------------|-------|-------|-------------|--------|----------------------------------|-------|-------|----------|--------|---------|--------|
| | | | Shift | Height | Amount | | | Shift | Height | Amount | |
| Toxaphene | 1 | 6.931 | 0.000 | 47415 | 261.8 | 1 | 7.125 | -0.001 | 38790 | 254.4 | |
| Toxaphene | 2 | 7.302 | -0.001 | 134642 | 265.2 | 2 | 7.552 | -0.001 | 89754 | 261.8 | |
| Toxaphene | 3 | 7.652 | -0.001 | 86679 | 264.9 | 3 | 8.059 | -0.001 | 67442 | 258.4 | |
| Toxaphene | 4 | 7.985 | -0.001 | 125891 | 287.7 | 4 | 8.200 | -0.001 | 220426 | 258.9 | |
| Toxaphene | 5 | 8.081 | -0.000 | 85903 | 260.0 | 5 | 8.958 | -0.001 | 104601 | 250.5 | |
| Total STX-CLPAve (5 peaks): 267.939 | | | | | Total CLP2Ave (5 peaks): 256.784 | | | | | RPD = 4 | |
| Corrected Ave (5 peaks): 267.939 | | | | | Corrected Ave (5 peaks): 256.784 | | | | | RPD = 4 | |

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20221214.b/B20221214.b/22121429.D SEQ-CAL9A CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121429.D
Data file 2: /20221214.b/B20221214.b/22121429.D
Method: \20221214.b\PEST.m
Compound Sublist: TOXAPH.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL9A
Client ID:
Injection Date: 15-DEC-2022 03:46
Report Date: 12/15/2022 09:09
Units: ng/mL
Dilution Factor: 1.000

| STX-CLP Col | CLP2 Col | STX-CLP | CLP2 | RPD | Compound/Flag | | | | |
|-------------|----------|----------|------|-------|---------------|--------|--------|-----|---------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | RPD | Compound/Flag |

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Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121430.D
 Data file 2: /20221214.b/B20221214.b/22121430.D
 Method: \20221214.b\PEST.m
 Compound Sublist: TOXAPH.sub
 Instrument, Inj. Vol.: ecd6.i, 1ul
 Operator: JGR

ARI ID: SEQ-CALAA
 Client ID:
 Injection Date: 15-DEC-2022 04:04
 Report Date: 12/16/2022 15:20
 Units: ng/mL
 Dilution Factor: 1.000

| RT | STX-CLP Col Shift Response | CLP2 Col Shift Response | RT | CLP2 Col Shift Response | STX-CLP on col | CLP2 on col | RPD | Compound/Flag | |
|-------|-------------------------------|----------------------------|--------|----------------------------|-------------------|----------------|------|---------------|----------------------|
| 3.828 | -0.000 | 37717 | 4.220 | 0.000 | 60469 | 3.98 | 3.98 | 0.0 | Tetrachloro-m-xylene |
| 9.355 | 0.000 | 57106 | 10.467 | 0.000 | 82418 | 9.20 | 9.32 | 1.3 | Decachlorobiphenyl |

- * Indicates RPD > 40%
- A Indicates Peak Height was used for Column 1 quantitation instead of Area
- B Indicates Peak Height was used for Column 2 quantitation instead of Area
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

- ~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

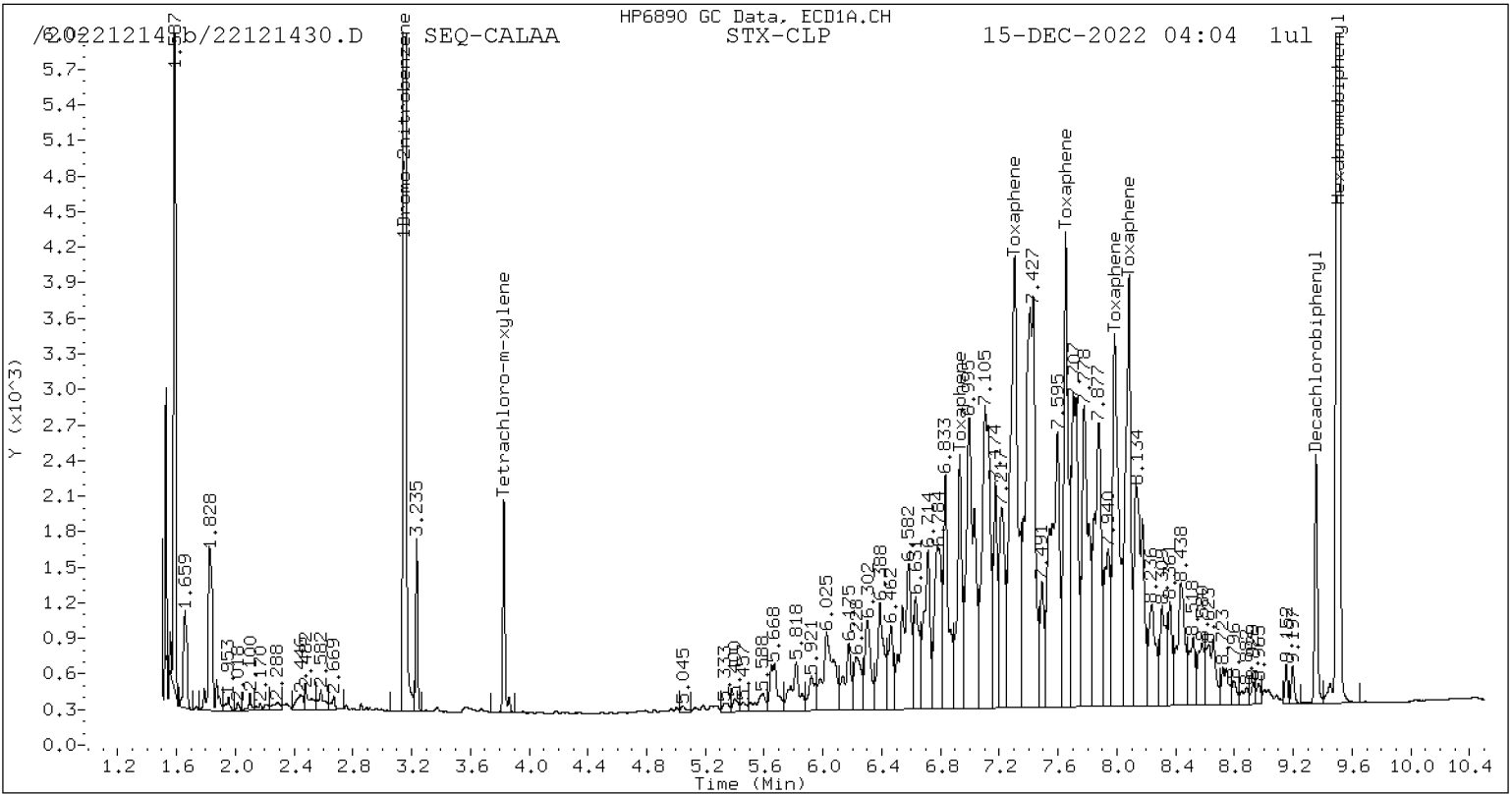
| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 710650 | 696179 | -2.0 |
| Hexabromobiphenyl | 641833 | 612804 | -4.5 |

| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|-----|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 1058848 | 1078803 | 1.9 |
| Hexabromobiphenyl | 797125 | 800071 | 0.4 |

* Standard Areas taken from Initial Cal Level 5
 Initial Calibration Date: 14-DEC-2022
 <- Indicates standard response outside Limits (-50 to +100%)

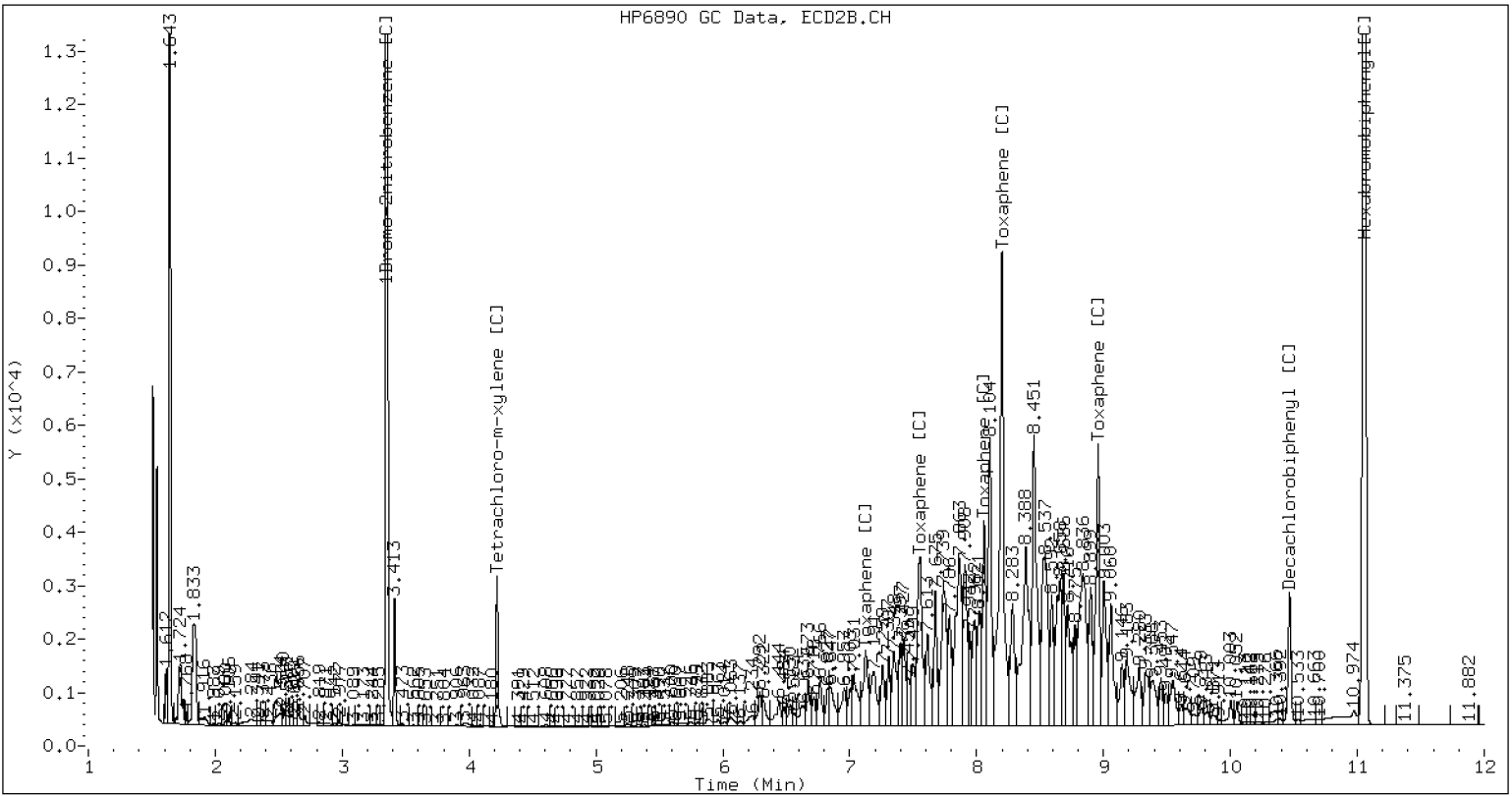
| Cpnd | Peak# | RT | STX-CLP Col | | | Peak# | RT | CLP2 Col | | | | |
|-----------------------------|-------|-------|-------------|--------|---------|--------------------------|-------|----------|--------|--------|---------|---------|
| | | | Shift | Height | Amount | | | Shift | Height | Amount | | |
| Toxaphene | 1 | 6.931 | -0.000 | 96535 | 539.4 | 1 | 7.125 | -0.001 | 78635 | 523.1 | | |
| Toxaphene | 2 | 7.304 | 0.000 | 273576 | 545.2 | 2 | 7.553 | -0.001 | 179081 | 529.9 | | |
| Toxaphene | 3 | 7.652 | -0.001 | 177095 | 547.7 | 3 | 8.059 | -0.001 | 133547 | 519.1 | | |
| Toxaphene | 4 | 7.985 | -0.001 | 190443 | 440.4 | 4 | 8.200 | -0.001 | 437035 | 520.8 | | |
| Toxaphene | 5 | 8.082 | -0.000 | 175009 | 535.8 | 5 | 8.958 | -0.001 | 209659 | 509.4 | | |
| Total STX-CLPAve (5 peaks): | | | | | 521.711 | Total CLP2Ave (5 peaks): | | | | | 520.468 | RPD = 0 |
| Corrected Ave (5 peaks): | | | | | 521.711 | Corrected Ave (5 peaks): | | | | | 520.468 | RPD = 0 |

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20221214.b/B20221214.b/22121430.D SEQ-CALAA CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121430.D
Data file 2: /20221214.b/B20221214.b/22121430.D
Method: \20221214.b\PEST.m
Compound Sublist: TOXAPH.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CALAA
Client ID:
Injection Date: 15-DEC-2022 04:04
Report Date: 12/15/2022 09:09
Units: ng/mL
Dilution Factor: 1.000

| STX-CLP Col | CLP2 Col | STX-CLP | CLP2 | RPD | Compound/Flag | | | | |
|-------------|----------|----------|------|-------|---------------|--------|--------|-----|---------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | RPD | Compound/Flag |

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Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121431.D
Data file 2: /20221214.b/B20221214.b/22121431.D
Method: \20221214.b\PEST.m
Compound Sublist: TOXAPH.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CALAB
Client ID:
Injection Date: 15-DEC-2022 04:22
Report Date: 12/16/2022 15:20
Units: ng/mL
Dilution Factor: 1.000

| RT | STX-CLP Col Shift Response | CLP2 Col Shift Response | STX-CLP on col | CLP2 on col | RPD | Compound/Flag |
|-------|-------------------------------|----------------------------|-------------------|----------------|-----|----------------------|
| 3.828 | 0.000 74347 | 4.221 0.000 119694 | 7.73 | 7.77 | 0.5 | Tetrachloro-m-xylene |
| 9.355 | -0.000 107024 | 10.466 -0.000 151970 | 17.00 | 17.11 | 0.7 | Decachlorobiphenyl |

* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

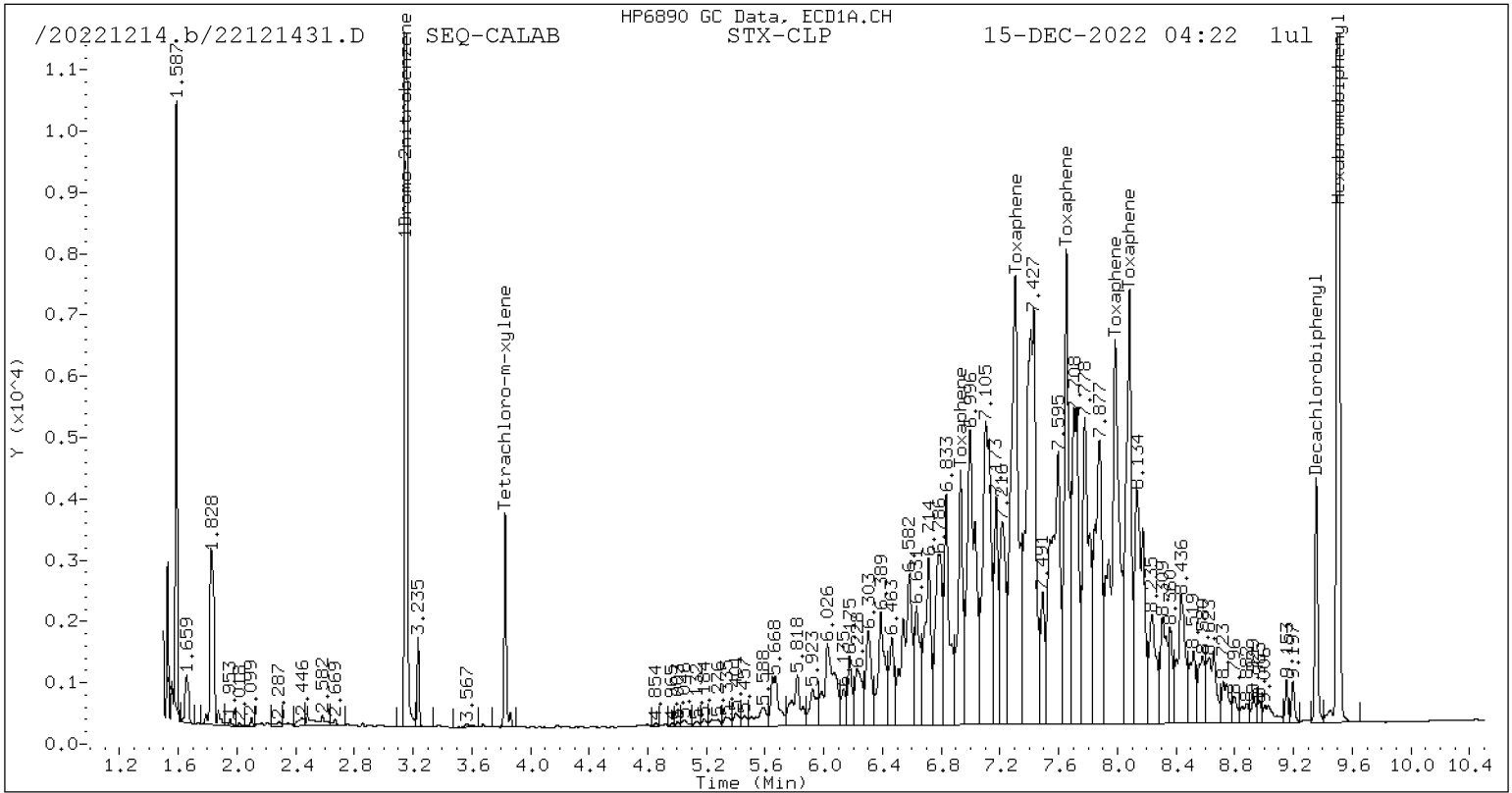
| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 710650 | 706924 | -0.5 |
| Hexabromobiphenyl | 641833 | 621486 | -3.2 |

| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|-----|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 1058848 | 1093936 | 3.3 |
| Hexabromobiphenyl | 797125 | 803782 | 0.8 |

* Standard Areas taken from Initial Cal Level 5
 Initial Calibration Date: 14-DEC-2022
 <- Indicates standard response outside Limits (-50 to +100%)

| Cpnd | Peak# | RT | STX-CLP Col | | | Peak# | RT | CLP2 Col | | | | |
|-----------------------------|-------|-------|-------------|--------|----------|--------------------------|-------|----------|--------|--------|----------|---------|
| | | | Shift | Height | Amount | | | Shift | Height | Amount | | |
| Toxaphene | 1 | 6.931 | 0.000 | 192757 | 1062.0 | 1 | 7.125 | -0.000 | 156515 | 1036.5 | | |
| Toxaphene | 2 | 7.303 | -0.000 | 530863 | 1043.2 | 2 | 7.553 | -0.001 | 349637 | 1029.8 | | |
| Toxaphene | 3 | 7.653 | -0.000 | 344194 | 1049.6 | 3 | 8.059 | -0.000 | 265296 | 1026.5 | | |
| Toxaphene | 4 | 7.986 | -0.000 | 522105 | 1190.6 | 4 | 8.201 | -0.001 | 854255 | 1013.3 | | |
| Toxaphene | 5 | 8.082 | -0.000 | 345477 | 1043.0 | 5 | 8.958 | -0.001 | 416452 | 1007.1 | | |
| Total STX-CLPAve (5 peaks): | | | | | 1077.665 | Total CLP2Ave (5 peaks): | | | | | 1022.630 | RPD = 5 |
| Corrected Ave (5 peaks): | | | | | 1077.665 | Corrected Ave (5 peaks): | | | | | 1022.630 | RPD = 5 |

Pesticide Dual Column Chromatograms



Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121431.D
Data file 2: /20221214.b/B20221214.b/22121431.D
Method: \20221214.b\PEST.m
Compound Sublist: TOXAPH.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CALAB
Client ID:
Injection Date: 15-DEC-2022 04:22
Report Date: 12/15/2022 09:09
Units: ng/mL
Dilution Factor: 1.000

| STX-CLP Col | CLP2 Col | STX-CLP | CLP2 | RPD | Compound/Flag | | | | |
|-------------|----------|----------|------|-------|---------------|--------|--------|-----|---------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | RPD | Compound/Flag |

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Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121432.D
 Data file 2: /20221214.b/B20221214.b/22121432.D
 Method: \20221214.b\PEST.m
 Compound Sublist: TOXAPH.sub
 Instrument, Inj. Vol.: ecd6.i, 1ul
 Operator: JGR

ARI ID: SEQ-CALAC
 Client ID:
 Injection Date: 15-DEC-2022 04:40
 Report Date: 12/16/2022 15:20
 Units: ng/mL
 Dilution Factor: 1.000

| STX-CLP Col | | | CLP2 Col | | | STX-CLP | CLP2 | RPD | Compound/Flag |
|-------------|-------|----------|----------|--------|----------|---------|--------|-----|----------------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | |
| 3.828 | 0.000 | 169388 | 4.221 | 0.000 | 273030 | 18.51 | 18.69 | 1.0 | Tetrachloro-m-xylene |
| 9.356 | 0.001 | 234532 | 10.466 | -0.000 | 332716 | 40.53 | 40.11 | 1.0 | Decachlorobiphenyl |

* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Column 1 | | | |
|--------------------|----------------|-------------|-------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 710650 | 672958 | -5.3 |
| Hexabromobiphenyl | 641833 | 571112 | -11.0 |

| Column 2 | | | |
|--------------------|----------------|-------------|------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 1058848 | 1037593 | -2.0 |
| Hexabromobiphenyl | 797125 | 750492 | -5.9 |

* Standard Areas taken from Initial Cal Level 5
 Initial Calibration Date: 14-DEC-2022
 <- Indicates standard response outside Limits (-50 to +100%)

| Cpnd | Peak# | RT | STX-CLP Col | | | Peak# | RT | CLP2 Col | | | | |
|-----------------------------|-------|-------|-------------|---------|----------|--------------------------|-------|----------|---------|--------|----------|---------|
| | | | Shift | Height | Amount | | | Shift | Height | Amount | | |
| Toxaphene | 1 | 6.931 | 0.000 | 432250 | 2591.5 | 1 | 7.126 | -0.000 | 358061 | 2539.5 | | |
| Toxaphene | 2 | 7.303 | 0.000 | 1180375 | 2524.1 | 2 | 7.553 | 0.000 | 785942 | 2479.1 | | |
| Toxaphene | 3 | 7.653 | 0.000 | 762221 | 2529.4 | 3 | 8.059 | -0.000 | 602985 | 2498.7 | | |
| Toxaphene | 4 | 7.986 | 0.000 | 863552 | 2142.9 | 4 | 8.201 | -0.001 | 1929083 | 2450.8 | | |
| Toxaphene | 5 | 8.082 | 0.000 | 777497 | 2554.3 | 5 | 8.958 | -0.001 | 962132 | 2492.0 | | |
| Total STX-CLPAve (5 peaks): | | | | | 2468.427 | Total CLP2Ave (5 peaks): | | | | | 2492.024 | RPD = 1 |
| Corrected Ave (5 peaks): | | | | | 2468.427 | Corrected Ave (5 peaks): | | | | | 2492.024 | RPD = 1 |

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121432.D
Data file 2: /20221214.b/B20221214.b/22121432.D
Method: \20221214.b\PEST.m
Compound Sublist: TOXAPH.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CALAC
Client ID:
Injection Date: 15-DEC-2022 04:40
Report Date: 12/15/2022 09:09
Units: ng/mL
Dilution Factor: 1.000

| STX-CLP Col | CLP2 Col | STX-CLP | CLP2 | RPD | Compound/Flag | |
|-------------|----------------|---------|----------------|--------|---------------|--|
| RT | Shift Response | RT | Shift Response | on col | on col | |

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Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121433.D
Data file 2: /20221214.b/B20221214.b/22121433.D
Method: \20221214.b\PEST.m
Compound Sublist: TOXAPH.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CALAD
Client ID:
Injection Date: 15-DEC-2022 04:58
Report Date: 12/16/2022 15:20
Units: ng/mL
Dilution Factor: 1.000

| RT | STX-CLP Col Shift Response | CLP2 Col Shift Response | RT | STX-CLP on col | CLP2 on col | RPD | Compound/Flag |
|-------|-------------------------------|----------------------------|-------|-------------------|----------------|----------------------|---------------|
| 3.828 | -0.000 329284 | 4.221 0.000 536251 | 34.78 | 35.63 | 2.4 | Tetrachloro-m-xylene | |
| 9.356 | 0.000 464116 | 10.466 -0.000 660536 | 76.95 | 77.19 | 0.3 | Decachlorobiphenyl | |

- * Indicates RPD > 40%
- A Indicates Peak Height was used for Column 1 quantitation instead of Area
- B Indicates Peak Height was used for Column 2 quantitation instead of Area
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated
- ~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

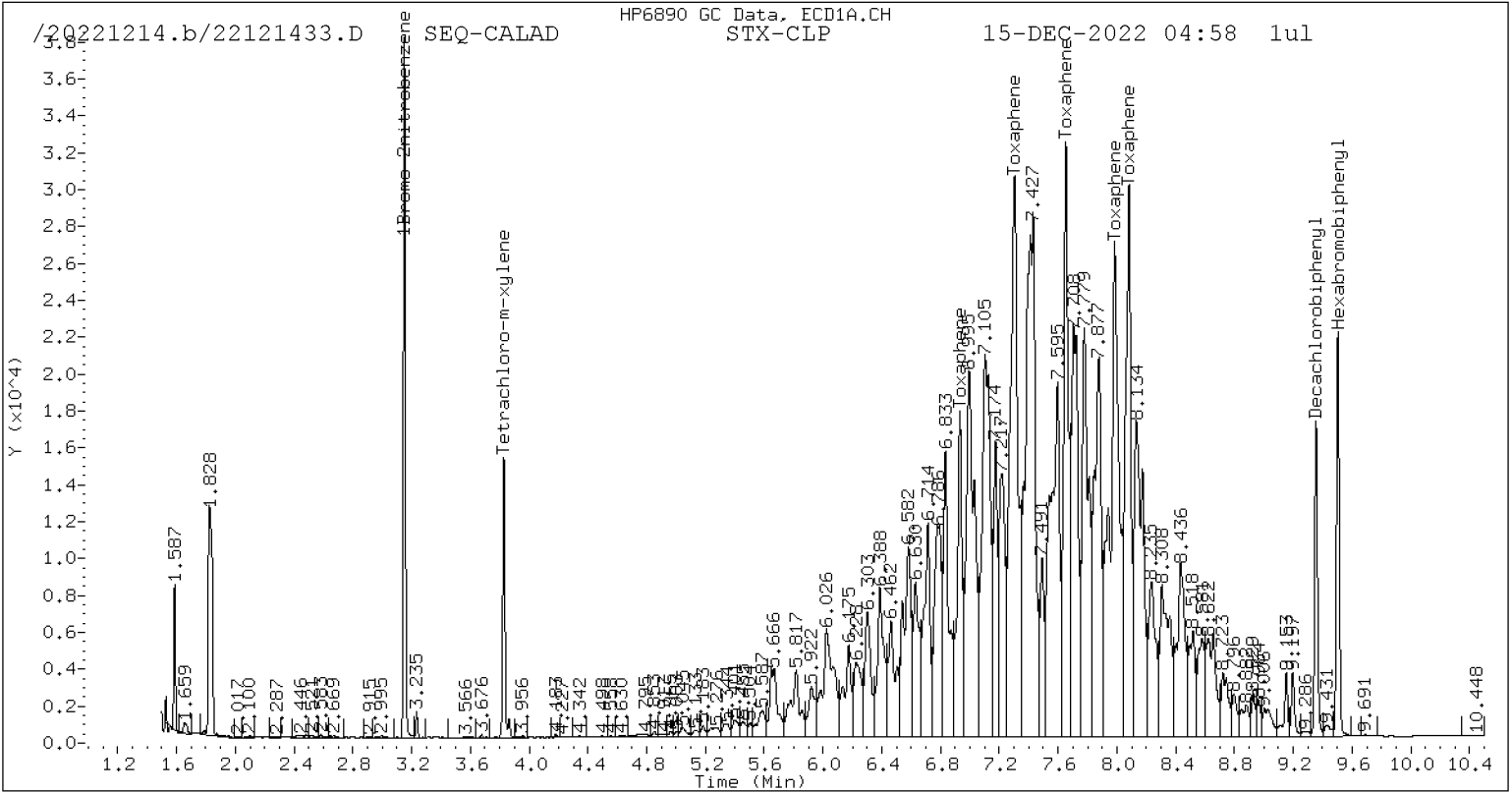
| Column 1 | | | |
|--------------------|----------------|-------------|------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 710650 | 696178 | -2.0 |
| Hexabromobiphenyl | 641833 | 595287 | -7.3 |

| Column 2 | | | |
|--------------------|----------------|-------------|------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 1058848 | 1069205 | 1.0 |
| Hexabromobiphenyl | 797125 | 774218 | -2.9 |

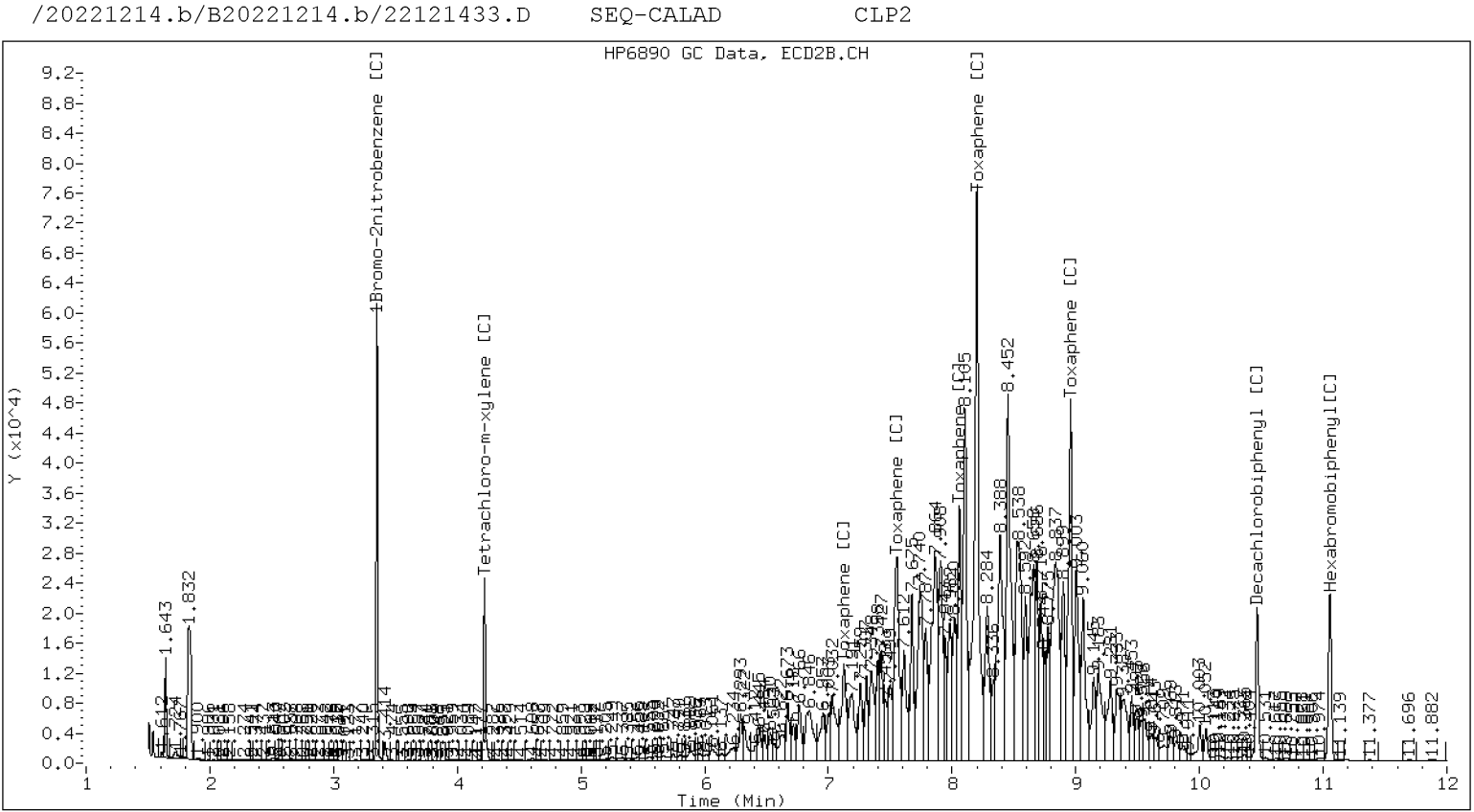
* Standard Areas taken from Initial Cal Level 5
 Initial Calibration Date: 14-DEC-2022
 <- Indicates standard response outside Limits (-50 to +100%)

| Cpnd | Peak# | RT | STX-CLP Col | | | Peak# | RT | CLP2 Col | | | | |
|-----------------------------|-------|-------|-------------|---------|----------|--------------------------|-------|----------|---------|--------|----------|---------|
| | | | Shift | Height | Amount | | | Shift | Height | Amount | | |
| Toxaphene | 1 | 6.931 | 0.000 | 828531 | 4765.6 | 1 | 7.126 | -0.000 | 704213 | 4841.5 | | |
| Toxaphene | 2 | 7.303 | -0.000 | 2275106 | 4667.4 | 2 | 7.554 | 0.000 | 1533921 | 4690.3 | | |
| Toxaphene | 3 | 7.653 | -0.000 | 1493693 | 4755.4 | 3 | 8.059 | -0.001 | 1192086 | 4788.5 | | |
| Toxaphene | 4 | 7.986 | 0.000 | 2318449 | 5519.5 | 4 | 8.201 | -0.001 | 3835448 | 4723.4 | | |
| Toxaphene | 5 | 8.081 | -0.000 | 1509568 | 4758.0 | 5 | 8.958 | -0.000 | 1957568 | 4914.8 | | |
| Total STX-CLPAve (5 peaks): | | | | | 4893.192 | Total CLP2Ave (5 peaks): | | | | | 4791.694 | RPD = 2 |
| Corrected Ave (5 peaks): | | | | | 4893.192 | Corrected Ave (5 peaks): | | | | | 4791.694 | RPD = 2 |

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121433.D
Data file 2: /20221214.b/B20221214.b/22121433.D
Method: \20221214.b\PEST.m
Compound Sublist: TOXAPH.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CALAD
Client ID:
Injection Date: 15-DEC-2022 04:58
Report Date: 12/15/2022 09:09
Units: ng/mL
Dilution Factor: 1.000

| STX-CLP Col | CLP2 Col | STX-CLP | CLP2 | RPD | Compound/Flag | |
|-------------|----------------|---------|----------------|--------|---------------|--|
| RT | Shift Response | RT | Shift Response | on col | on col | |

=====

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121434.D
 Data file 2: /20221214.b/B20221214.b/22121434.D
 Method: \20221214.b\PEST.m
 Compound Sublist: TOXAPH.sub
 Instrument, Inj. Vol.: ecd6.i, 1ul
 Operator: JGR

ARI ID: SEQ-CALAE
 Client ID:
 Injection Date: 15-DEC-2022 05:16
 Report Date: 12/16/2022 15:20
 Units: ng/mL
 Dilution Factor: 1.000

| STX-CLP Col | | | CLP2 Col | | | STX-CLP | CLP2 | RPD | Compound/Flag |
|-------------|--------|----------|----------|-------|----------|---------|--------|-----|----------------------|
| RT | Shift | Response | RT | Shift | Response | on col | on col | | |
| 3.828 | -0.000 | 626937 | 4.221 | 0.000 | 1016753 | 65.66 | 67.54 | 2.8 | Tetrachloro-m-xylene |
| 9.355 | 0.000 | 899917 | 10.467 | 0.000 | 1293767 | 145.37 | 151.89 | 4.4 | Decachlorobiphenyl |

- * Indicates RPD > 40%
- A Indicates Peak Height was used for Column 1 quantitation instead of Area
- B Indicates Peak Height was used for Column 2 quantitation instead of Area
- M Indicates Column 1 peak was manually integrated
- N Indicates Column 2 peak was manually integrated

- ~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

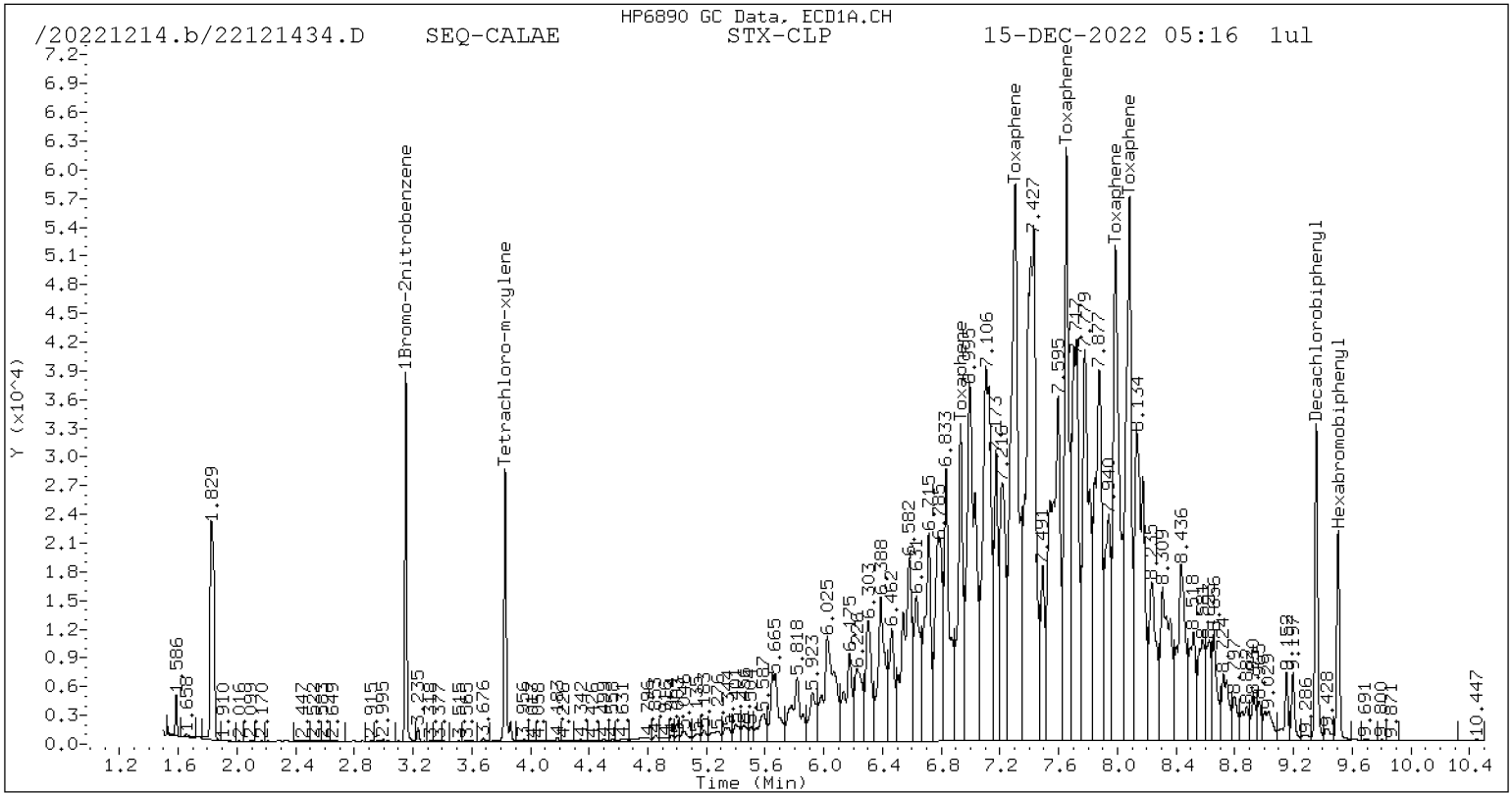
| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 710650 | 702143 | -1.2 |
| Hexabromobiphenyl | 641833 | 610983 | -4.8 |

| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 1058848 | 1069521 | 1.0 |
| Hexabromobiphenyl | 797125 | 770702 | -3.3 |

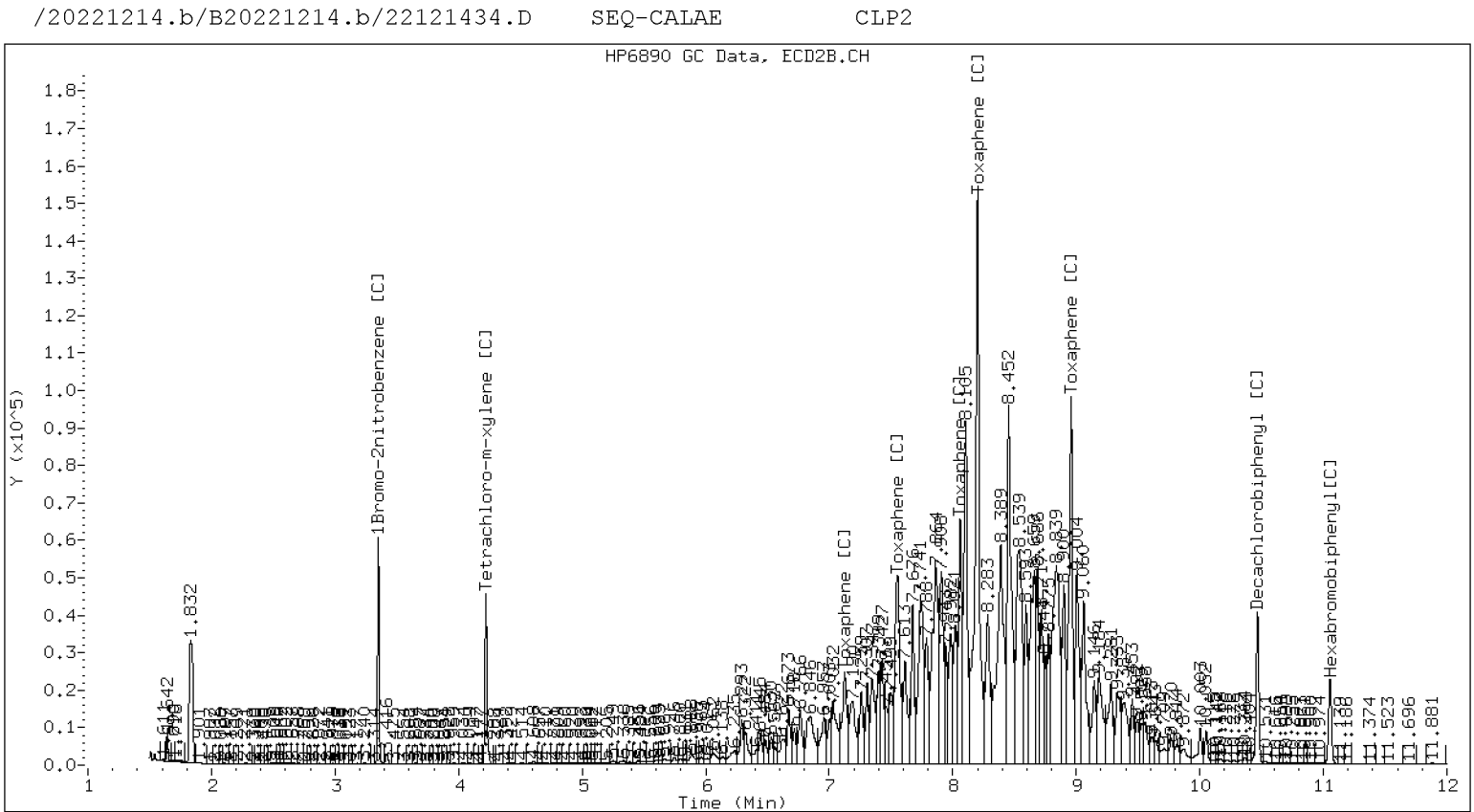
* Standard Areas taken from Initial Cal Level 5
 Initial Calibration Date: 14-DEC-2022
 <- Indicates standard response outside Limits (-50 to +100%)

| Cpnd | Peak# | RT | STX-CLP Col | | | Peak# | RT | CLP2 Col | | | | |
|-----------------------------|-------|-------|-------------|---------|----------|--------------------------|-------|----------|---------|--------|----------|----------|
| | | | Shift | Height | Amount | | | Shift | Height | Amount | | |
| Toxaphene | 1 | 6.931 | 0.000 | 1553785 | 8707.6 | 1 | 7.126 | 0.000 | 1336419 | 9229.8 | | |
| Toxaphene | 2 | 7.303 | -0.000 | 4216546 | 8428.1 | 2 | 7.553 | 0.000 | 2900195 | 8908.4 | | |
| Toxaphene | 3 | 7.653 | -0.000 | 2652265 | 8227.0 | 3 | 8.060 | 0.000 | 2299294 | 9278.2 | | |
| Toxaphene | 4 | 7.987 | 0.001 | 3225164 | 7480.8 | 4 | 8.201 | 0.000 | 7496819 | 9274.6 | | |
| Toxaphene | 5 | 8.082 | -0.000 | 2882252 | 8851.2 | 5 | 8.959 | 0.000 | 3913616 | 9870.7 | | |
| Total STX-CLPAve (5 peaks): | | | | | 8338.950 | Total CLP2Ave (5 peaks): | | | | | 9312.318 | RPD = 11 |
| Corrected Ave (5 peaks): | | | | | 8338.950 | Corrected Ave (5 peaks): | | | | | 9312.318 | RPD = 11 |

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121434.D
Data file 2: /20221214.b/B20221214.b/22121434.D
Method: \20221214.b\PEST.m
Compound Sublist: TOXAPH.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CALAE
Client ID:
Injection Date: 15-DEC-2022 05:16
Report Date: 12/15/2022 09:09
Units: ng/mL
Dilution Factor: 1.000

| STX-CLP Col | CLP2 Col | STX-CLP | CLP2 | RPD | Compound/Flag | |
|-------------|----------------|---------|----------------|--------|---------------|--|
| RT | Shift Response | RT | Shift Response | on col | on col | |

=====



INITIAL CALIBRATION CHECK
EPA 8081B

| | | | |
|----------------|----------------------------------|-------------------|------------------------|
| Laboratory: | <u>Analytical Resources, LLC</u> | SDG: | <u>23A0180</u> |
| Client: | <u>Anchor OEA, LLC</u> | Project: | <u>AOC5 MR Phase 1</u> |
| Instrument ID: | <u>ECD6</u> | Calibration: | <u>FL00041</u> |
| Lab File ID: | <u>23020903.D</u> | Calibration Date: | <u>12/14/2022</u> |
| Sequence: | <u>SLB0156</u> | Injection Date: | <u>02/09/23</u> |
| Lab Sample ID: | <u>SLB0156-ICV1</u> | Injection Time: | <u>20:06</u> |
| Sequence Name: | <u>INDAE</u> | | |

| COMPOUND | TYPE | CONC. (ng/mL) | | RESPONSE FACTOR | | | % DRIFT/DIFF | |
|----------------------------|------|---------------|------|-----------------|-----------|-----|--------------|-------|
| | | STD | ICV | ICAL | ICV | MIN | ICV | LIMIT |
| Hexachlorobenzene | A | 20.000 | 20.9 | 1.4298940 | 1.4935180 | | 4.4 | +/-20 |
| Hexachlorobenzene [2C] | A | 20.000 | 20.5 | 1.4591090 | 1.4966290 | | 2.6 | +/-20 |
| Decachlorobiphenyl | A | 40.000 | 40.7 | 0.8105886 | 0.8252770 | | 1.8 | +/-20 |
| Decachlorobiphenyl [2C] | A | 40.000 | 39.6 | 0.8841805 | 0.8749715 | | -1.0 | +/-20 |
| Tetrachlorometaxylene | A | 40.000 | 36.4 | 1.0879510 | 0.9889924 | | -9.1 | +/-20 |
| Tetrachlorometaxylene [2C] | A | 40.000 | 40.1 | 1.1261070 | 1.1300490 | | 0.4 | +/-20 |

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230209.b/23020903.D
Data file 2: /20230209.b/B20230209.b/23020903.D
Method: \20230209.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: AA/JR

ARI ID: SEQ-ICV1
Client ID:
Injection Date: 09-FEB-2023 20:06
Report Date: 02/11/2023 06:17
Units: ng/mL
Dilution Factor: 1.000

| RT | STX-CLP Col Shift Response | CLP2 Col Shift Response | RT | CLP2 Col Shift Response | STX-CLP on col | CLP2 on col | RPD | Compound/Flag | |
|-------|-------------------------------|----------------------------|--------|----------------------------|-------------------|----------------|--------|---------------|----------------------|
| 4.300 | -0.010 | 306244 | 4.816 | -0.016 | 493208 | 22.56 | 22.35 | 0.9 | alpha-BHC |
| 4.682 | -0.011 | 120773 | 5.292 | -0.017 | 189765 | 23.10 | 22.62 | 2.1 | beta-BHC |
| 4.865 | -0.011 | 260979 | 5.643 | -0.018 | 250366 | 23.52 | 13.78 | 52.3* | delta-BHC |
| 4.600 | -0.011 | 245387 | 5.211 | -0.018 | 420688 | 20.85 | 22.47 | 7.5 | gamma-BHC (Lindane) |
| 5.081 | -0.012 | 247565 | 5.735 | -0.019 | 373107 | 23.64 | 22.00 | 7.2 | Heptachlor |
| 5.401 | -0.013 | 261893 | 6.137 | -0.021 | 425807 | 22.31 | 21.99 | 1.5 | Aldrin |
| 6.074 | -0.015 | 224967 | 6.794 | -0.020 | 355677 | 22.10 | 22.21 | 0.5 | Heptachlor epoxide b |
| 6.517 | -0.014 | 222801 | 7.238 | -0.020 | 306609 | 23.85 | 21.72 | 9.4 | Endosulfan I |
| 6.777 | -0.014 | 416136 | 7.531 | -0.020 | 657500 | 41.47 | 42.16 | 1.6 | Dieldrin |
| 6.440 | -0.011 | 413841 | 7.323 | -0.019 | 622296 | 44.42 | 43.51 | 2.1 | 4,4'-DDE |
| 7.027 | -0.014 | 347428 | 7.856 | -0.020 | 491309 | 42.22 | 44.52 | 5.3 | Endrin |
| 7.265 | -0.013 | 340096 | 8.068 | -0.019 | 532631 | 45.91 | 47.09 | 2.5 | Endosulfan II |
| 7.088 | -0.011 | 367052 | 7.931 | -0.018 | 530760 | 49.51 | 49.45 | 0.1 | 4,4'-DDD |
| 8.128 | -0.013 | 328801 | 8.667 | -0.019 | 483017 | 46.74 | 48.63 | 3.9 | Endosulfan sulfate |
| 7.378 | -0.013 | 325866 | 8.248 | -0.018 | 481588 | 43.50 | 46.48 | 6.6 | 4,4'-DDT |
| 7.867 | -0.010 | 747608 | 8.891 | -0.018 | 970314 | 225.20 | 211.64 | 6.2 | Methoxychlor |
| 8.401 | -0.013 | 384430 | 9.190 | -0.019 | 507905 | 47.71 | 47.34 | 0.8 | Endrin ketone |
| 7.693 | -0.013 | 269326 | 8.399 | -0.019 | 356930 | 45.58 | 44.73 | 1.9 | Endrin aldehyde |
| 6.217 | -0.013 | 232325 | 7.005 | -0.020 | 350520 | 22.47 | 21.95 | 2.4 | trans-Chlordane |
| 6.363 | -0.013 | 213673 | 7.165 | -0.020 | 311151 | 20.61 | 19.92 | 3.4 | cis-Chlordane |
| 2.296 | -0.007 | 278841 | 2.474 | -0.008 | 277393 | 19.60 | 13.24 | 38.8 | Hexachlorobutadiene |
| 4.143 | -0.009 | 263321 | 4.677 | -0.016 | 411948 | 20.89 | 20.51 | 1.8 | Hexachlorobenzene |
| 3.791 | -0.009 | 348737 | 4.183 | -0.014 | 622093 | 36.36 | 40.14 | 9.9 | Tetrachloro-m-xylene |
| 9.307 | -0.011 | 259007 | 10.405 | -0.024 | 339548 | 40.72 | 39.58 | 2.8 | Decachlorobiphenyl |

* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|-----|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 672426 | 705237 | 4.9 |
| Hexabromobiphenyl | 609723 | 627685 | 2.9 |

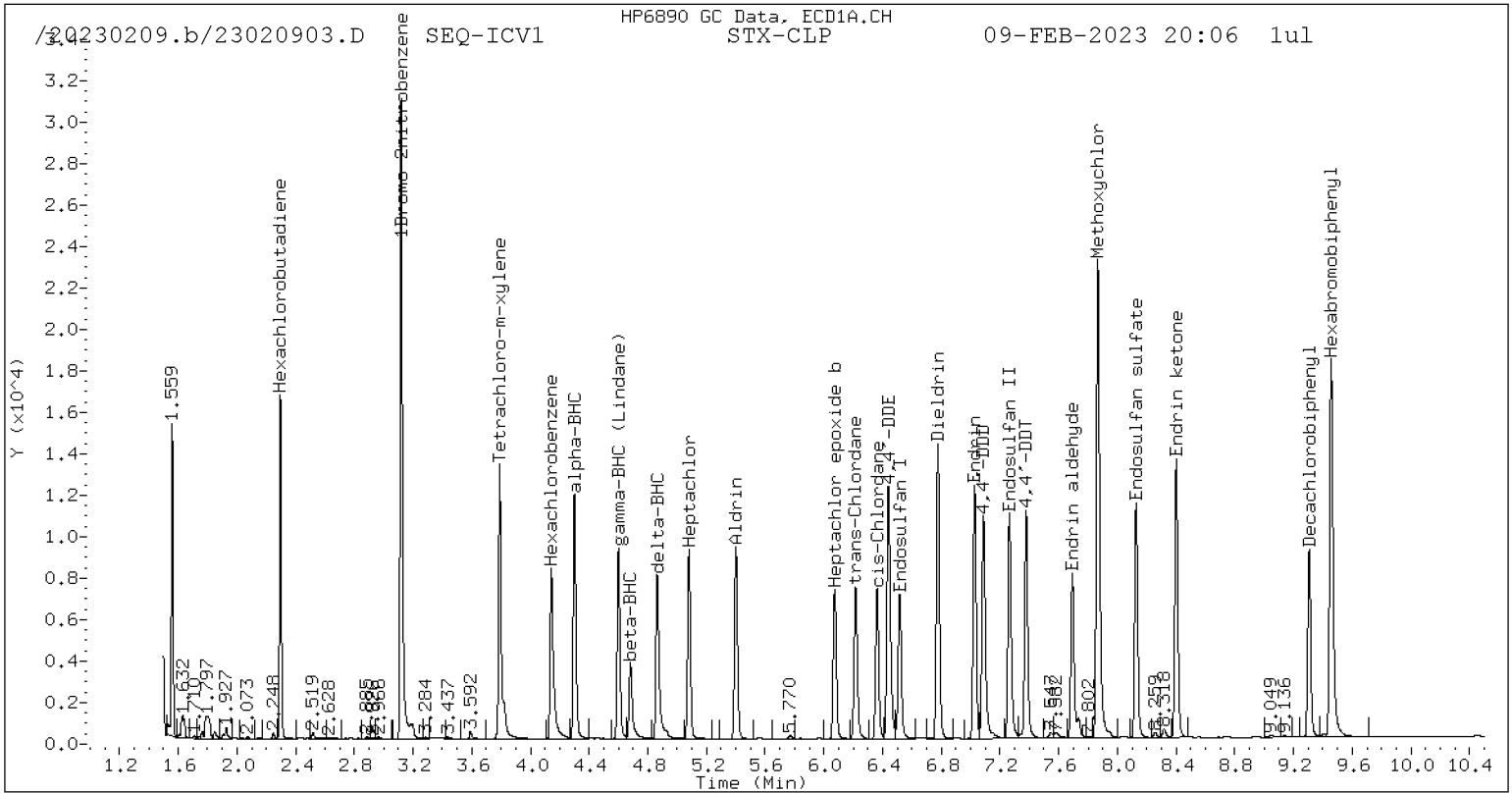
| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|-----|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 1006482 | 1101002 | 9.4 |
| Hexabromobiphenyl | 769764 | 776135 | 0.8 |

* Standard Areas taken from Initial Cal Level 5

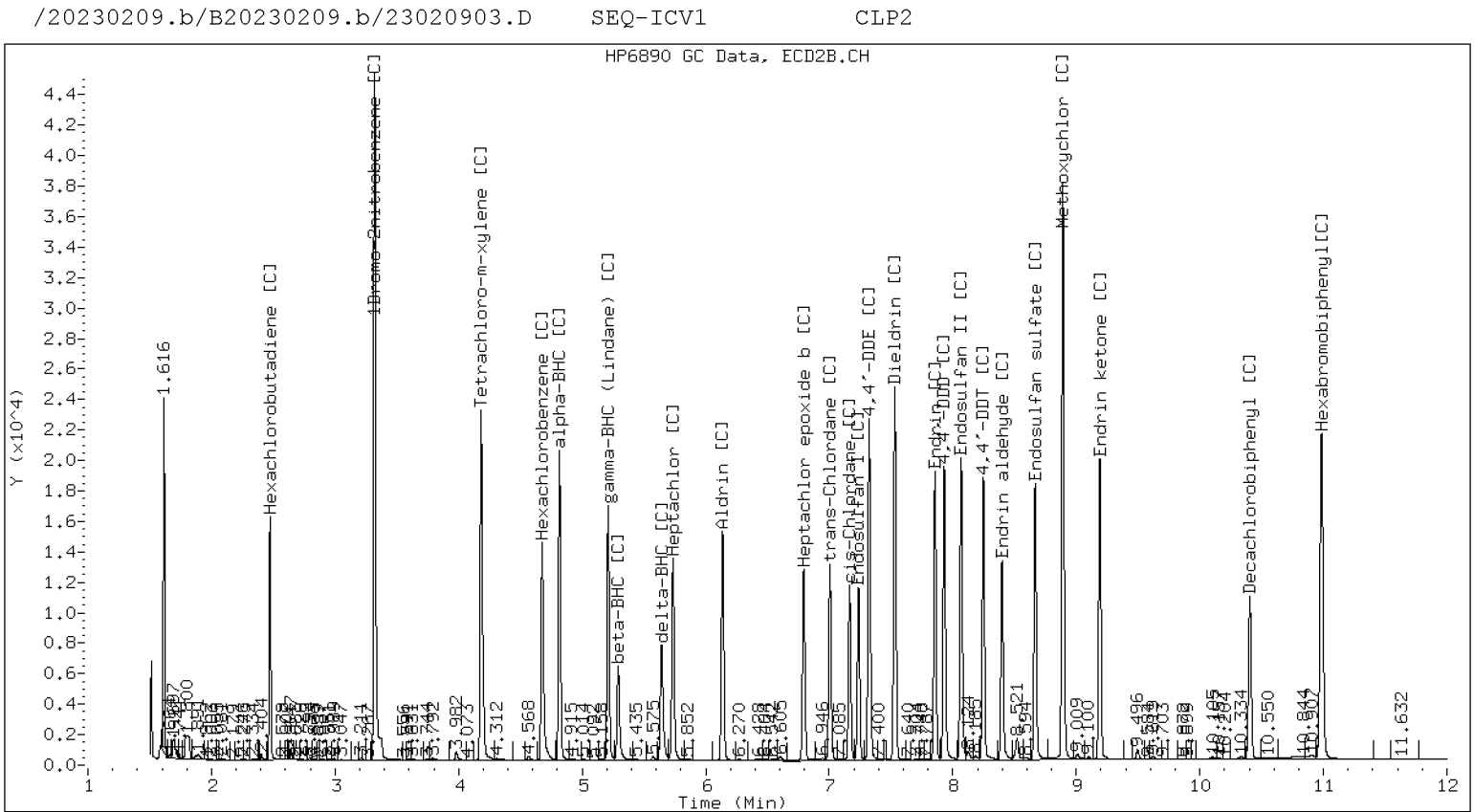
Initial Calibration Date: 14-DEC-2022

<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO



CLP-2 Manual Integration: NO



CONTINUING CALIBRATION CHECK
EPA 8081B

| | | | |
|----------------|----------------------------------|-------------------|------------------------|
| Laboratory: | <u>Analytical Resources, LLC</u> | SDG: | <u>23A0180</u> |
| Client: | <u>Anchor QEA, LLC</u> | Project: | <u>AOC5 MR Phase 1</u> |
| Instrument ID: | <u>ECD6</u> | Calibration: | <u>FL00041</u> |
| Lab File ID: | <u>23020920.D</u> | Calibration Date: | <u>12/14/2022</u> |
| Sequence: | <u>SLB0156</u> | Injection Date: | <u>02/10/23</u> |
| Lab Sample ID: | <u>SLB0156-CCV1</u> | Injection Time: | <u>01:10</u> |
| Sequence Name: | <u>INDAE</u> | | |

| COMPOUND | TYPE | CONC. (ng/mL) | | RESPONSE FACTOR (RRF) | | | % DRIFT/DIFF | |
|----------------------------|------|---------------|------|-----------------------|-----------|-----|--------------|-------|
| | | STD | CCV | ICAL | CCV | MIN | CCV | LIMIT |
| Hexachlorobenzene | A | 20.000 | 21.7 | 1.4298940 | 1.5522790 | | 8.6 | +/-20 |
| Hexachlorobenzene [2C] | A | 20.000 | 19.2 | 1.4591090 | 1.4036620 | | -3.8 | +/-20 |
| Decachlorobiphenyl | A | 40.000 | 40.3 | 0.8105886 | 0.8166619 | | 0.7 | +/-20 |
| Decachlorobiphenyl [2C] | A | 40.000 | 41.3 | 0.8841805 | 0.9129236 | | 3.3 | +/-20 |
| Tetrachlorometaxylene | A | 40.000 | 39.9 | 1.0879510 | 1.0862260 | | -0.2 | +/-20 |
| Tetrachlorometaxylene [2C] | A | 40.000 | 38.3 | 1.1261070 | 1.0775590 | | -4.3 | +/-20 |

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230209.b/23020920.D
Data file 2: /20230209.b/B20230209.b/23020920.D
Method: \20230209.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: AA/JR

ARI ID: SEQ-CCV1
Client ID:
Injection Date: 10-FEB-2023 01:10
Report Date: 02/11/2023 06:18
Units: ng/mL
Dilution Factor: 1.000

| RT | STX-CLP Col Shift Response | CLP2 Col Response | RT | CLP2 Col Shift Response | Response | STX-CLP on col | CLP2 on col | RPD | Compound/Flag |
|-------|-------------------------------|----------------------|--------|----------------------------|----------|-------------------|----------------|-------|----------------------|
| 4.301 | -0.009 | 162721 | 4.817 | -0.016 | 251816 | 22.96 | 20.24 | 12.6 | alpha-BHC |
| 4.684 | -0.009 | 64541 | 5.292 | -0.017 | 95371 | 23.66 | 20.17 | 15.9 | beta-BHC |
| 4.867 | -0.009 | 136484 | 5.643 | -0.018 | 141855 | 23.56 | 13.84 | 52.0* | delta-BHC |
| 4.602 | -0.010 | 132085 | 5.211 | -0.018 | 211508 | 21.50 | 20.04 | 7.0 | gamma-BHC (Lindane) |
| 5.081 | -0.011 | 134855 | 5.735 | -0.019 | 193638 | 24.67 | 20.25 | 19.7 | Heptachlor |
| 5.401 | -0.013 | 140568 | 6.137 | -0.021 | 203493 | 22.94 | 18.64 | 20.7 | Aldrin |
| 6.075 | -0.014 | 120019 | 6.793 | -0.021 | 168574 | 22.59 | 18.67 | 19.0 | Heptachlor epoxide b |
| 6.518 | -0.013 | 118843 | 7.237 | -0.020 | 137802 | 24.38 | 17.32 | 33.9 | Endosulfan I |
| 6.778 | -0.013 | 222835 | 7.531 | -0.020 | 297123 | 42.55 | 33.80 | 22.9 | Dieldrin |
| 6.442 | -0.010 | 213444 | 7.324 | -0.018 | 280623 | 43.89 | 34.81 | 23.1 | 4,4'-DDE |
| 7.028 | -0.014 | 156734 | 7.856 | -0.020 | 186803 | 37.70 | 36.16 | 4.2 | Endrin |
| 7.265 | -0.013 | 182927 | 8.068 | -0.019 | 238666 | 48.88 | 45.07 | 8.1 | Endosulfan II |
| 7.089 | -0.010 | 186547 | 7.931 | -0.018 | 226858 | 49.80 | 45.15 | 9.8 | 4,4'-DDD |
| 8.128 | -0.013 | 200004 | 8.666 | -0.020 | 213005 | 56.28 | 45.81 | 20.5 | Endosulfan sulfate |
| 7.380 | -0.011 | 175165 | 8.248 | -0.018 | 223070 | 46.28 | 45.99 | 0.6 | 4,4'-DDT |
| 7.867 | -0.010 | 405802 | 8.890 | -0.018 | 491922 | 241.94 | 229.20 | 5.4 | Methoxychlor |
| 8.401 | -0.013 | 200773 | 9.190 | -0.020 | 247948 | 49.32 | 49.37 | 0.1 | Endrin ketone |
| 7.694 | -0.013 | 148679 | 8.399 | -0.019 | 168469 | 49.80 | 45.10 | 9.9 | Endrin aldehyde |
| 6.217 | -0.012 | 122104 | 7.005 | -0.020 | 158474 | 22.63 | 17.60 | 25.0 | trans-Chlordane |
| 6.363 | -0.012 | 113012 | 7.165 | -0.020 | 146555 | 20.88 | 16.64 | 22.6 | cis-Chlordane |
| 2.298 | -0.006 | 157884 | 2.476 | -0.007 | 165186 | 21.27 | 13.98 | 41.3* | Hexachlorobutadiene |
| 4.146 | -0.007 | 142850 | 4.678 | -0.015 | 217809 | 21.71 | 19.24 | 12.1 | Hexachlorobenzene |
| 3.793 | -0.007 | 199922 | 4.184 | -0.012 | 334414 | 39.94 | 38.28 | 4.2 | Tetrachloro-m-xylene |
| 9.307 | -0.011 | 129494 | 10.404 | -0.025 | 165849 | 40.30 | 41.30 | 2.5 | Decachlorobiphenyl |

* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|-------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 672426 | 368104 | -45.3 |
| Hexabromobiphenyl | 609723 | 317130 | -48.0 |

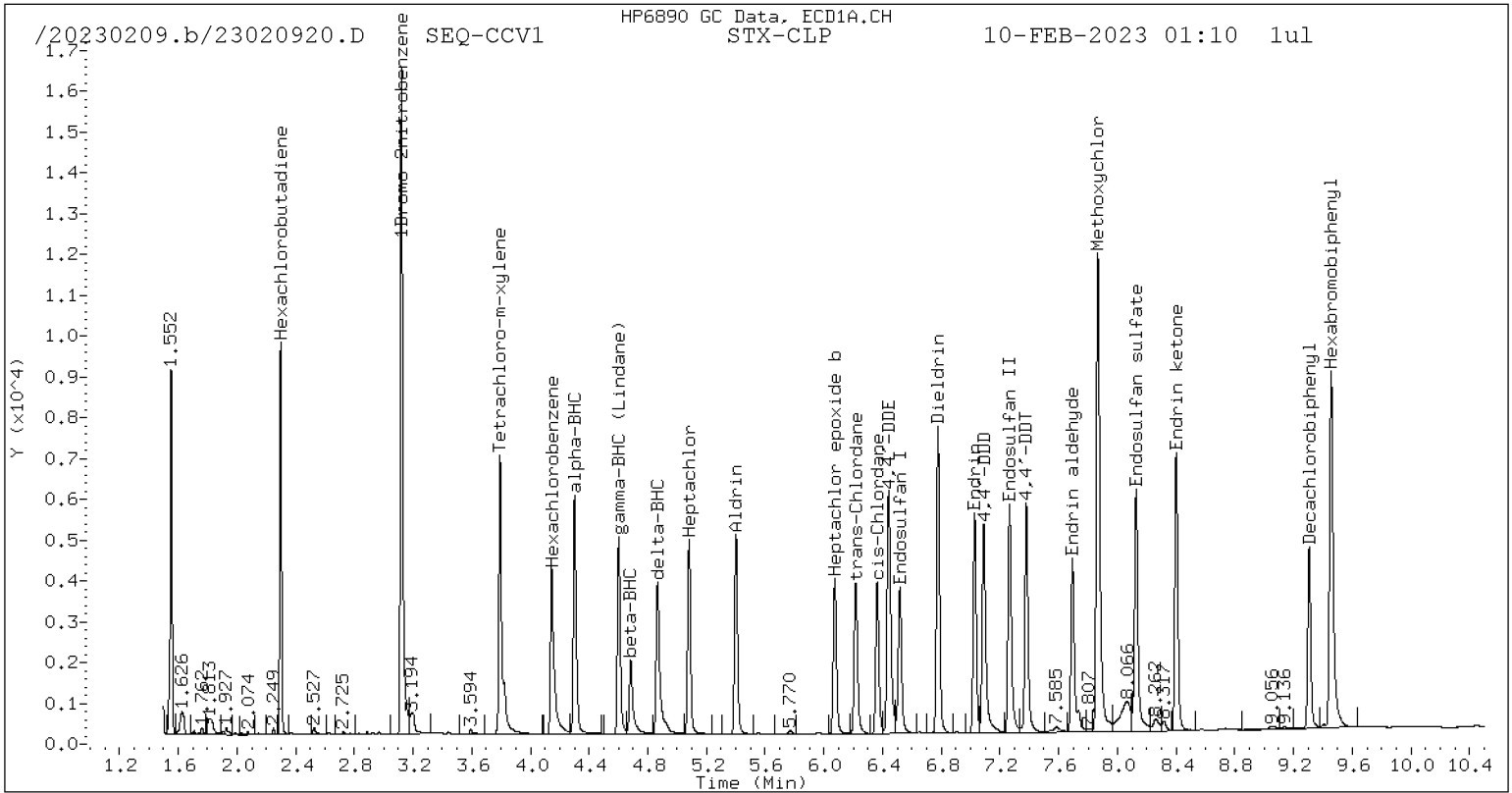
| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|----------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 1006482 | 620688 | -38.3 |
| Hexabromobiphenyl | 769764 | 363336 | -52.8 <- |

* Standard Areas taken from Initial Cal Level 5

Initial Calibration Date: 14-DEC-2022

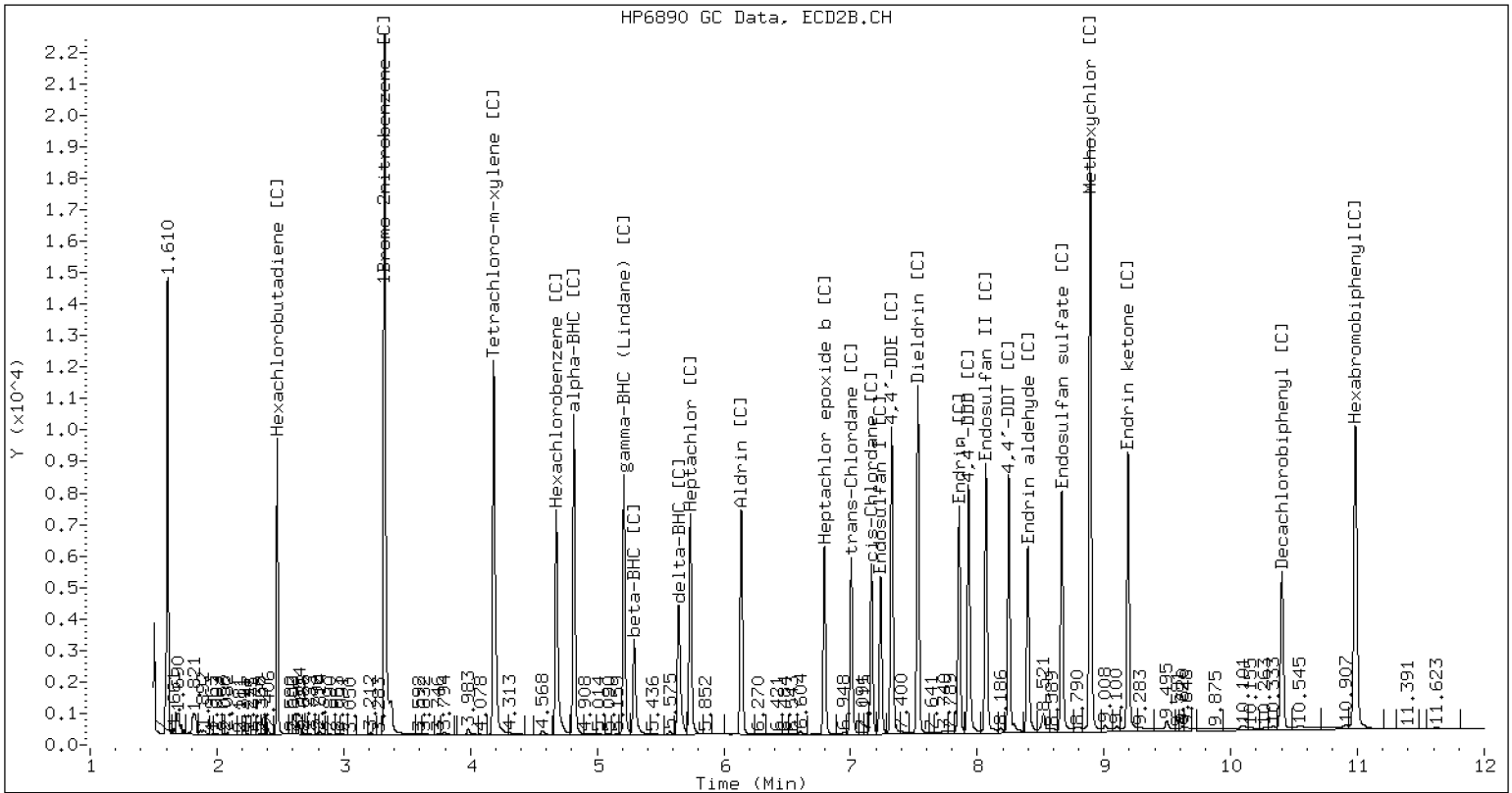
<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20230209.b/B20230209.b/23020920.D SEQ-CCV1 CLP2



CLP-2 Manual Integration: NO



CONTINUING CALIBRATION CHECK
EPA 8081B

| | | | |
|----------------|----------------------------------|-------------------|------------------------|
| Laboratory: | <u>Analytical Resources, LLC</u> | SDG: | <u>23A0180</u> |
| Client: | <u>Anchor QEA, LLC</u> | Project: | <u>AOC5 MR Phase 1</u> |
| Instrument ID: | <u>ECD6</u> | Calibration: | <u>FL00041</u> |
| Lab File ID: | <u>23020937.D</u> | Calibration Date: | <u>12/14/2022</u> |
| Sequence: | <u>SLB0156</u> | Injection Date: | <u>02/10/23</u> |
| Lab Sample ID: | <u>SLB0156-CCV2</u> | Injection Time: | <u>06:14</u> |
| Sequence Name: | <u>INDAE</u> | | |

| COMPOUND | TYPE | CONC. (ng/mL) | | RESPONSE FACTOR (RRF) | | | % DRIFT/DIFF | |
|----------------------------|------|---------------|------|-----------------------|-----------|-----|--------------|-------|
| | | STD | CCV | ICAL | CCV | MIN | CCV | LIMIT |
| Hexachlorobenzene | A | 20.000 | 22.1 | 1.4298940 | 1.5789030 | | 10.4 | +/-20 |
| Hexachlorobenzene [2C] | A | 20.000 | 21.5 | 1.4591090 | 1.5655310 | | 7.3 | +/-20 |
| Decachlorobiphenyl | A | 40.000 | 40.2 | 0.8105886 | 0.8146360 | | 0.5 | +/-20 |
| Decachlorobiphenyl [2C] | A | 40.000 | 39.3 | 0.8841805 | 0.8685354 | | -1.8 | +/-20 |
| Tetrachlorometaxylene | A | 40.000 | 38.1 | 1.0879510 | 1.0355220 | | -4.8 | +/-20 |
| Tetrachlorometaxylene [2C] | A | 40.000 | 42.0 | 1.1261070 | 1.1825410 | | 5.0 | +/-20 |

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230209.b/23020937.D
Data file 2: /20230209.b/B20230209.b/23020937.D
Method: \20230209.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: AA/JR

ARI ID: SEQ-CCV2
Client ID:
Injection Date: 10-FEB-2023 06:14
Report Date: 02/11/2023 06:18
Units: ng/mL
Dilution Factor: 1.000

| RT | STX-CLP Col Shift Response | CLP2 Col Response | RT | CLP2 Col Shift Response | CLP2 Col Response | STX-CLP on col | CLP2 on col | RPD | Compound/Flag |
|-------|-------------------------------|----------------------|--------|----------------------------|----------------------|-------------------|----------------|-------|----------------------|
| 4.300 | -0.010 | 341995 | 4.816 | -0.017 | 535660 | 24.42 | 23.51 | 3.8 | alpha-BHC |
| 4.682 | -0.011 | 132500 | 5.291 | -0.018 | 200138 | 24.57 | 23.11 | 6.2 | beta-BHC |
| 4.864 | -0.011 | 290769 | 5.642 | -0.020 | 270119 | 25.40 | 14.39 | 55.3* | delta-BHC |
| 4.600 | -0.011 | 268659 | 5.210 | -0.019 | 457187 | 22.12 | 23.65 | 6.6 | gamma-BHC (Lindane) |
| 5.080 | -0.013 | 274318 | 5.734 | -0.021 | 409846 | 25.39 | 23.40 | 8.2 | Heptachlor |
| 5.401 | -0.013 | 285653 | 6.136 | -0.022 | 448862 | 23.59 | 22.45 | 5.0 | Aldrin |
| 6.073 | -0.015 | 243576 | 6.793 | -0.022 | 381512 | 23.20 | 23.07 | 0.6 | Heptachlor epoxide b |
| 6.516 | -0.014 | 242526 | 7.237 | -0.021 | 324240 | 25.17 | 22.25 | 12.3 | Endosulfan I |
| 6.777 | -0.014 | 447796 | 7.530 | -0.021 | 702282 | 43.26 | 43.61 | 0.8 | Dieldrin |
| 6.440 | -0.012 | 450506 | 7.322 | -0.019 | 664768 | 46.88 | 45.02 | 4.0 | 4,4'-DDE |
| 7.027 | -0.015 | 313052 | 7.855 | -0.021 | 426906 | 34.93 | 35.31 | 1.1 | Endrin |
| 7.264 | -0.014 | 382614 | 8.067 | -0.021 | 560428 | 47.42 | 45.22 | 4.8 | Endosulfan II |
| 7.087 | -0.012 | 398319 | 7.929 | -0.020 | 553296 | 49.33 | 47.05 | 4.7 | 4,4'-DDD |
| 8.127 | -0.014 | 402098 | 8.665 | -0.021 | 507786 | 52.49 | 46.66 | 11.8 | Endosulfan sulfate |
| 7.378 | -0.013 | 371942 | 8.247 | -0.020 | 529722 | 45.59 | 46.67 | 2.3 | 4,4'-DDT |
| 7.866 | -0.011 | 819804 | 8.890 | -0.019 | 1085505 | 226.75 | 216.09 | 4.8 | Methoxychlor |
| 8.400 | -0.014 | 434923 | 9.189 | -0.021 | 580082 | 49.56 | 49.35 | 0.4 | Endrin ketone |
| 7.693 | -0.014 | 324471 | 8.398 | -0.021 | 409721 | 50.42 | 46.87 | 7.3 | Endrin aldehyde |
| 6.216 | -0.014 | 252626 | 7.004 | -0.021 | 371351 | 23.69 | 22.52 | 5.1 | trans-Chlordane |
| 6.362 | -0.014 | 230867 | 7.164 | -0.021 | 326282 | 21.59 | 20.23 | 6.5 | cis-Chlordane |
| 2.296 | -0.007 | 302418 | 2.474 | -0.008 | 297263 | 20.61 | 13.74 | 40.0* | Hexachlorobutadiene |
| 4.143 | -0.010 | 287159 | 4.676 | -0.017 | 444935 | 22.08 | 21.46 | 2.9 | Hexachlorobenzene |
| 3.791 | -0.010 | 376666 | 4.182 | -0.014 | 672173 | 38.07 | 42.00 | 9.8 | Tetrachloro-m-xylene |
| 9.306 | -0.013 | 278443 | 10.403 | -0.026 | 369293 | 40.20 | 39.29 | 2.3 | Decachlorobiphenyl |

* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 672426 | 727490 | 8.2 |
| Hexabromobiphenyl | 609723 | 683601 | 12.1 |

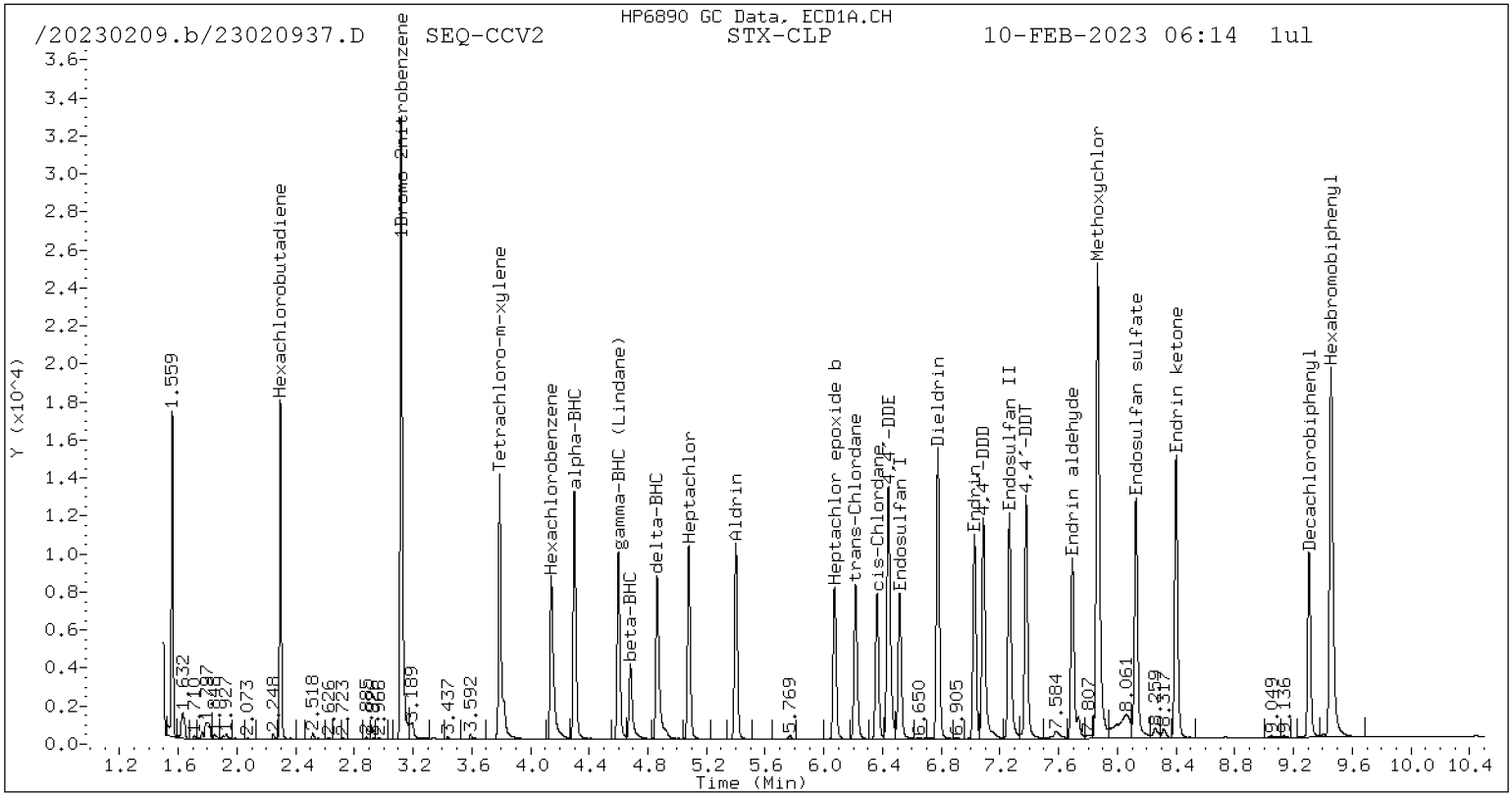
| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 1006482 | 1136828 | 13.0 |
| Hexabromobiphenyl | 769764 | 850381 | 10.5 |

* Standard Areas taken from Initial Cal Level 5

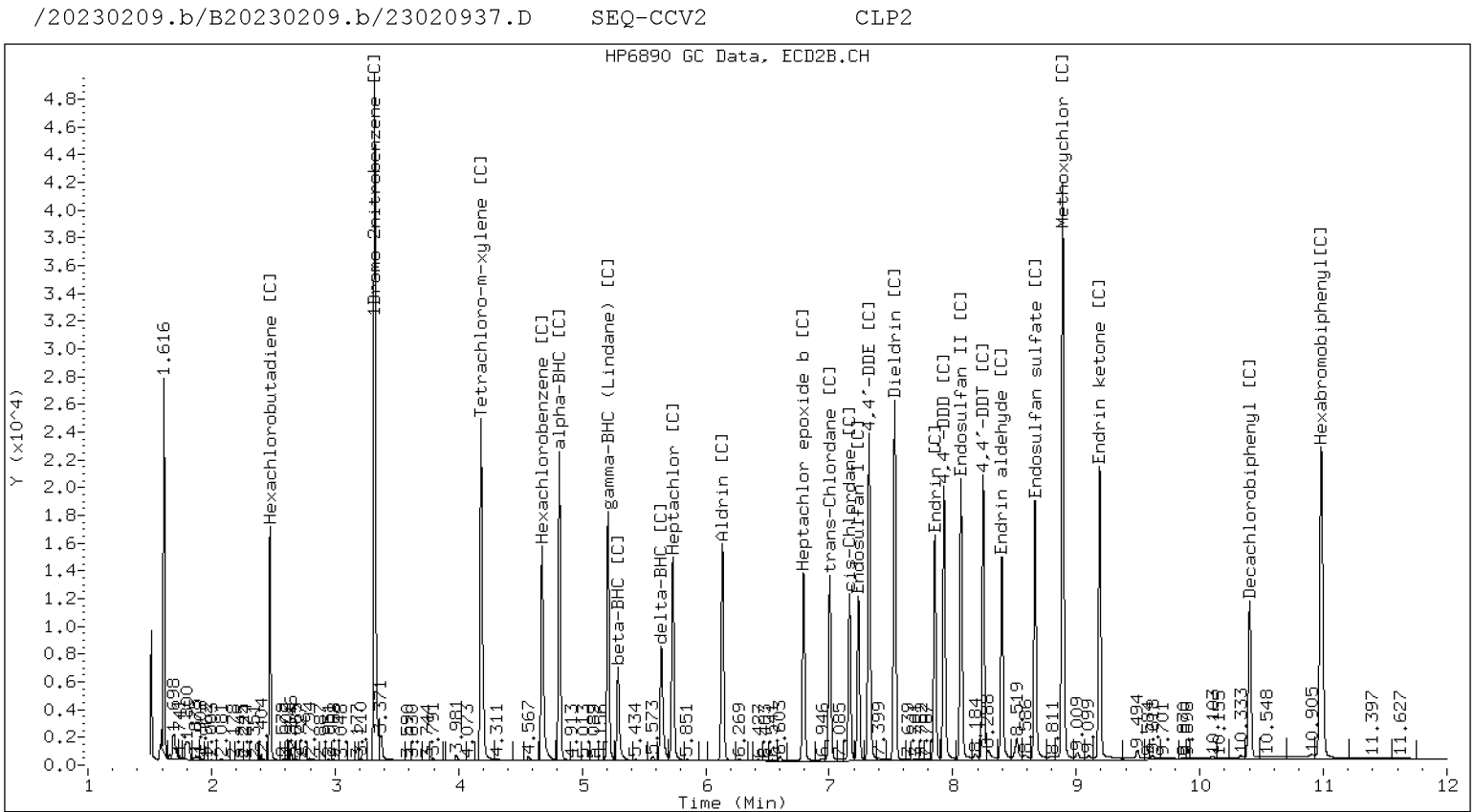
Initial Calibration Date: 14-DEC-2022

<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO



CLP-2 Manual Integration: NO



CONTINUING CALIBRATION CHECK
EPA 8081B

| | | | |
|----------------|----------------------------------|-------------------|------------------------|
| Laboratory: | <u>Analytical Resources, LLC</u> | SDG: | <u>23A0180</u> |
| Client: | <u>Anchor QEA, LLC</u> | Project: | <u>AOC5 MR Phase 1</u> |
| Instrument ID: | <u>ECD6</u> | Calibration: | <u>FL00041</u> |
| Lab File ID: | <u>23020949.D</u> | Calibration Date: | <u>12/14/2022</u> |
| Sequence: | <u>SLB0156</u> | Injection Date: | <u>02/10/23</u> |
| Lab Sample ID: | <u>SLB0156-CCV3</u> | Injection Time: | <u>09:48</u> |
| Sequence Name: | <u>INDAE</u> | | |

| COMPOUND | TYPE | CONC. (ng/mL) | | RESPONSE FACTOR (RRF) | | | % DRIFT/DIFF | |
|----------------------------|------|---------------|------|-----------------------|-----------|-----|--------------|-------|
| | | STD | CCV | ICAL | CCV | MIN | CCV | LIMIT |
| Hexachlorobenzene | A | 20.000 | 22.1 | 1.4298940 | 1.5802990 | | 10.5 | +/-20 |
| Hexachlorobenzene [2C] | A | 20.000 | 21.5 | 1.4591090 | 1.5693060 | | 7.6 | +/-20 |
| Decachlorobiphenyl | A | 40.000 | 40.3 | 0.8105886 | 0.8160173 | | 0.7 | +/-20 |
| Decachlorobiphenyl [2C] | A | 40.000 | 39.1 | 0.8841805 | 0.8639957 | | -2.3 | +/-20 |
| Tetrachlorometaxylene | A | 40.000 | 38.1 | 1.0879510 | 1.0373350 | | -4.7 | +/-20 |
| Tetrachlorometaxylene [2C] | A | 40.000 | 42.0 | 1.1261070 | 1.1819770 | | 5.0 | +/-20 |

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230209.b/23020949.D
Data file 2: /20230209.b/B20230209.b/23020949.D
Method: \20230209.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: AA/JR

ARI ID: SEQ-CCV3
Client ID:
Injection Date: 10-FEB-2023 09:48
Report Date: 02/11/2023 06:18
Units: ng/mL
Dilution Factor: 1.000

| RT | STX-CLP Col Shift Response | CLP2 Col Shift Response | RT | CLP2 Col Shift Response | STX-CLP on col | CLP2 on col | RPD | Compound/Flag | |
|-------|-------------------------------|----------------------------|--------|----------------------------|-------------------|----------------|--------|---------------|----------------------|
| 4.300 | -0.010 | 348828 | 4.816 | -0.017 | 559302 | 24.18 | 23.77 | 1.7 | alpha-BHC |
| 4.683 | -0.010 | 136931 | 5.291 | -0.018 | 210709 | 24.66 | 23.55 | 4.6 | beta-BHC |
| 4.865 | -0.011 | 299584 | 5.642 | -0.019 | 281467 | 25.41 | 14.52 | 54.6* | delta-BHC |
| 4.601 | -0.011 | 276190 | 5.210 | -0.019 | 472664 | 22.09 | 23.67 | 6.9 | gamma-BHC (Lindane) |
| 5.080 | -0.012 | 281975 | 5.735 | -0.020 | 428103 | 25.34 | 23.66 | 6.8 | Heptachlor |
| 5.401 | -0.013 | 294263 | 6.137 | -0.021 | 470710 | 23.60 | 22.79 | 3.5 | Aldrin |
| 6.074 | -0.014 | 249611 | 6.793 | -0.021 | 384711 | 23.09 | 22.52 | 2.5 | Heptachlor epoxide b |
| 6.517 | -0.014 | 250059 | 7.237 | -0.021 | 324708 | 25.20 | 21.57 | 15.5 | Endosulfan I |
| 6.777 | -0.014 | 461028 | 7.531 | -0.020 | 701738 | 43.25 | 42.19 | 2.5 | Dieldrin |
| 6.440 | -0.011 | 463410 | 7.323 | -0.019 | 666767 | 46.82 | 43.71 | 6.9 | 4,4'-DDE |
| 7.027 | -0.014 | 308999 | 7.855 | -0.021 | 410472 | 33.39 | 33.63 | 0.7 | Endrin |
| 7.264 | -0.014 | 393371 | 8.068 | -0.020 | 556392 | 47.22 | 44.48 | 6.0 | Endosulfan II |
| 7.088 | -0.012 | 408687 | 7.930 | -0.019 | 547911 | 49.02 | 46.15 | 6.0 | 4,4'-DDD |
| 8.127 | -0.013 | 384692 | 8.666 | -0.020 | 503790 | 48.64 | 45.86 | 5.9 | Endosulfan sulfate |
| 7.378 | -0.013 | 380801 | 8.247 | -0.019 | 528288 | 45.20 | 46.11 | 2.0 | 4,4'-DDT |
| 7.866 | -0.011 | 850439 | 8.891 | -0.018 | 1101314 | 227.82 | 217.20 | 4.8 | Methoxychlor |
| 8.401 | -0.013 | 448760 | 9.190 | -0.020 | 574487 | 49.53 | 48.42 | 2.3 | Endrin ketone |
| 7.693 | -0.014 | 335271 | 8.398 | -0.020 | 410005 | 50.46 | 46.46 | 8.3 | Endrin aldehyde |
| 6.217 | -0.013 | 260215 | 7.005 | -0.020 | 372921 | 23.70 | 21.89 | 7.9 | trans-Chlordane |
| 6.362 | -0.013 | 236516 | 7.165 | -0.020 | 328611 | 21.48 | 19.72 | 8.5 | cis-Chlordane |
| 2.297 | -0.007 | 312594 | 2.474 | -0.008 | 306095 | 20.69 | 13.70 | 40.7* | Hexachlorobutadiene |
| 4.144 | -0.009 | 295988 | 4.677 | -0.016 | 460698 | 22.10 | 21.51 | 2.7 | Hexachlorobenzene |
| 3.791 | -0.009 | 388583 | 4.182 | -0.014 | 693981 | 38.14 | 41.98 | 9.6 | Tetrachloro-m-xylene |
| 9.307 | -0.012 | 287977 | 10.403 | -0.026 | 370814 | 40.27 | 39.09 | 3.0 | Decachlorobiphenyl |

* Indicates RPD > 40%

A Indicates Peak Height was used for Column 1 quantitation instead of Area

B Indicates Peak Height was used for Column 2 quantitation instead of Area

M Indicates Column 1 peak was manually integrated

N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 672426 | 749195 | 11.4 |
| Hexabromobiphenyl | 609723 | 705811 | 15.8 |

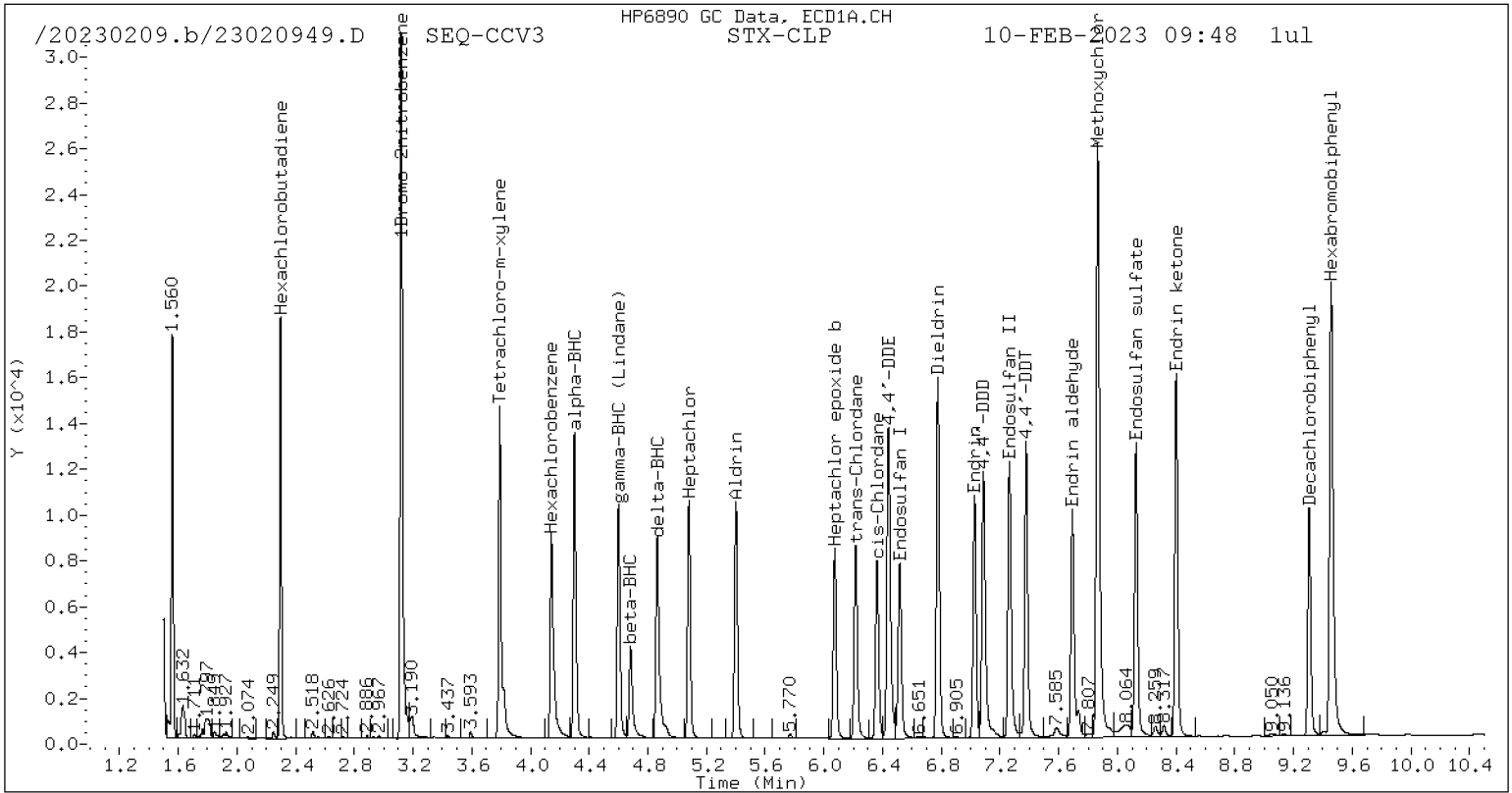
| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 1006482 | 1174272 | 16.7 |
| Hexabromobiphenyl | 769764 | 858370 | 11.5 |

* Standard Areas taken from Initial Cal Level 5

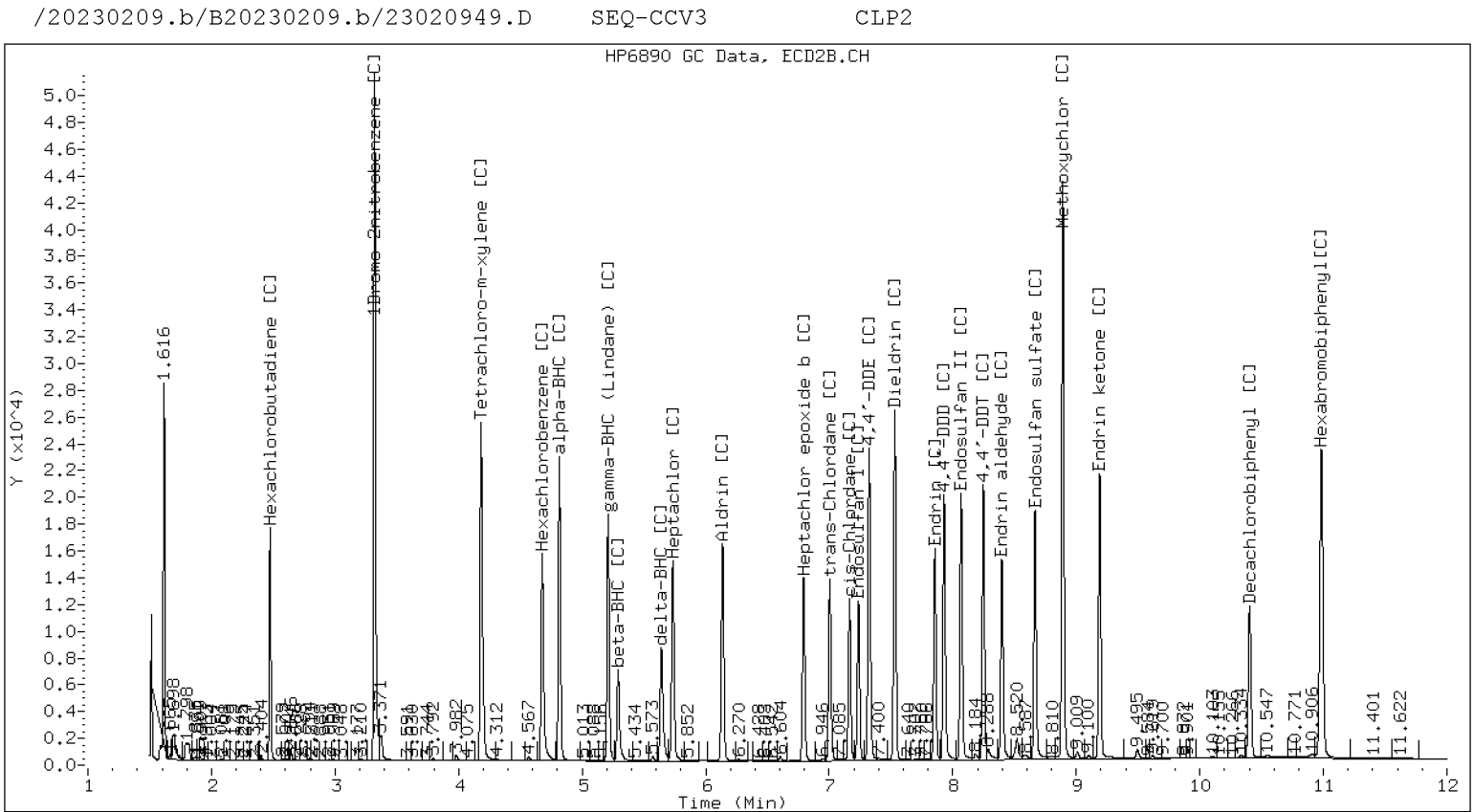
Initial Calibration Date: 14-DEC-2022

<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO



CLP-2 Manual Integration: NO



PERFORMANCE EVALUATION DATA SHEET

DS1

EPA 8081B

Laboratory: Analytical Resources, LLC

Laboratory ID: SKL0233-PEM1

File ID: 22121404.D

Client: Anchor QEA, LLC

Matrix: Water

Instrument: ECD6

Project: AOC5 MR Phase 1

Analyzed: 12/14/2022

Sequence: SKL0233

SDG: 23A0180

Calibration: FL00041

Column: 1

| PEM COMPOUND | RT | Response |
|-----------------|------|----------|
| 4,4'-DDE | 6.49 | 6258 |
| Endrin | 7.08 | 745471 |
| 4,4'-DDD | 7.14 | 15566 |
| Endrin Aldehyde | 7.75 | 21328 |
| 4,4'-DDT | 7.43 | 629664 |
| Endrin Ketone | 8.45 | 19276 |

4,4'-DDT %Breakdown (1): 3.3

Endrin %Breakdown (1): 5.2



PERFORMANCE EVALUATION DATA SHEET

DS1

EPA 8081B

Laboratory: Analytical Resources, LLC

Laboratory ID: SKL0233-PEM1

File ID: 22121404.D

Client: Anchor QEA, LLC

Matrix: Water

Instrument: ECD6

Project: AOC5 MR Phase 1

Analyzed: 12/14/2022

Sequence: SKL0233

SDG: 23A0180

Calibration: FL00041

Column: 2

| PEM COMPOUND | RT | Response |
|-----------------|------|----------|
| 4,4'-DDE | 7.37 | 11906 |
| Endrin | 7.91 | 1029194 |
| 4,4'-DDD | 7.98 | 32697 |
| Endrin Aldehyde | 8.45 | 31426 |
| 4,4'-DDT | 8.30 | 890195 |
| Endrin Ketone | 9.24 | 28268 |

4,4'-DDT %Breakdown (1): 4.8

Endrin %Breakdown (1): 5.5

7E
8081 DDT/ENDRIN BREAKDOWN VERIFICATION SUMMARY

Lab ID: SEQ-PEM1 InstID,Data File: ecd6.i, 22121404.D
Analysis Date: 14-DEC-2022 20:20 Init. Calib. Date: 14-DEC-2022

GC Column: STX-CLP1 ID: 0.53(mm)

| COMPOUND | RT | AREA |
|----------------------|-------|---------|
| 1Bromo-2nitrobenzene | 3.151 | 683485 |
| 4,4'-DDE | 6.490 | 6258 |
| Endrin | 7.082 | 745471 |
| 4,4'-DDD | 7.136 | 15566 |
| 4,4'-DDT | 7.428 | 629664 |
| Endrin ketone | 8.453 | 19276 |
| Endrin aldehyde | 7.747 | 21328 |
| Hexabromobiphenyl | 9.504 | 619012 |
| Tetrachloro-m-xylene | 3.828 | 1161664 |
| Decachlorobiphenyl | 9.355 | 833312 |

DDT Percent Breakdown = 3.3 %
((6258+15566) * 100)/(6258+15566+629664)

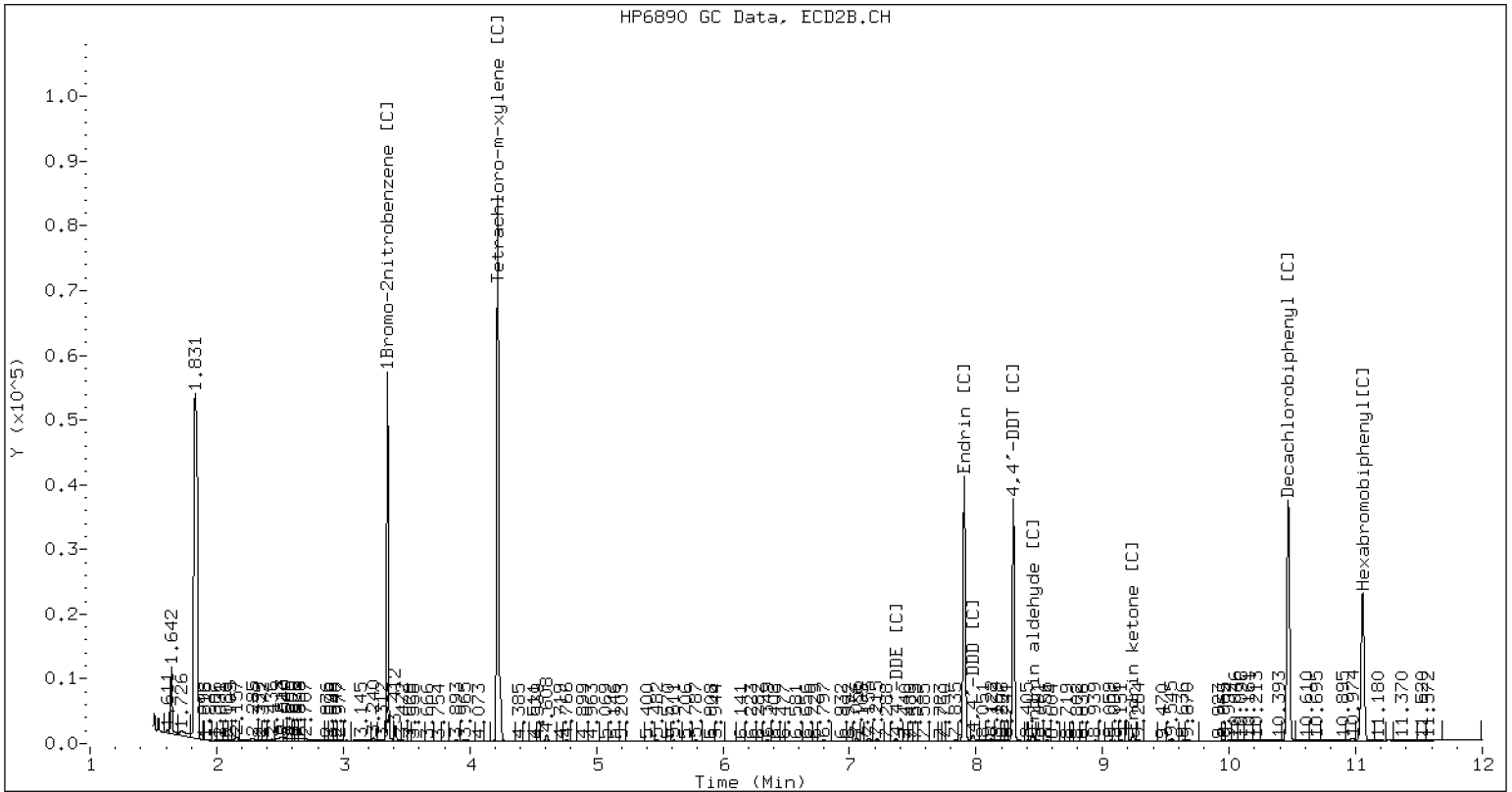
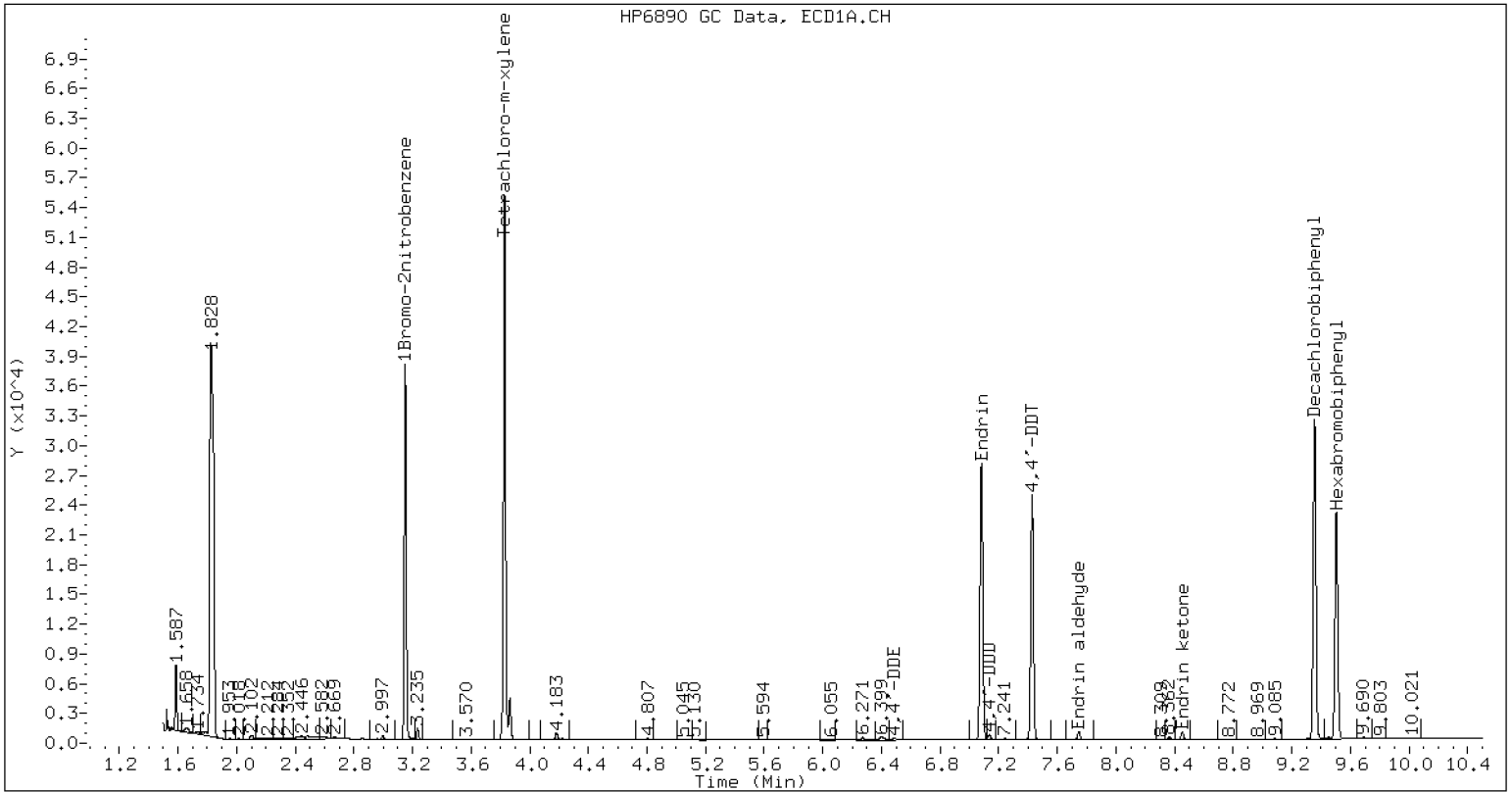
Endrin Percent Breakdown = 5.2 %
((21328+19276) * 100)/(21328+19276+745471)

GC Column: STX-CLP2 ID: 0.53(mm)

| COMPOUND | RT | AREA |
|--------------------------|--------|---------|
| 1Bromo-2nitrobenzene [C] | 3.350 | 1005375 |
| 4,4'-DDE [C] | 7.370 | 11906 |
| Endrin [C] | 7.907 | 1029194 |
| 4,4'-DDD [C] | 7.977 | 32697 |
| 4,4'-DDT [C] | 8.295 | 890195 |
| Endrin ketone [C] | 9.239 | 28268 |
| Endrin aldehyde [C] | 8.448 | 31426 |
| Hexabromobiphenyl [C] | 11.054 | 772586 |
| Tetrachloro-m-xylene [C] | 4.220 | 1890294 |
| Decachlorobiphenyl [C] | 10.467 | 1140978 |

DDT Percent Breakdown = 4.8 %
((11906+32697) * 100)/(11906+32697+890195)

Endrin Percent Breakdown = 5.5 %
((31426+28268) * 100)/(31426+28268+1029194)



7E
8081 DDT/ENDRIN BREAKDOWN VERIFICATION SUMMARY

Lab ID: SEQ-PEM1 InstID,Data File: ecd6.i, 22121404.D
Analysis Date: 14-DEC-2022 20:20 Init. Calib. Date: 14-DEC-2022

GC Column: STX-CLP1 ID: 0.53(mm)

| COMPOUND | RT | AREA |
|----------------------|-------|---------|
| 1Bromo-2nitrobenzene | 3.151 | 683485 |
| 4,4'-DDE | 6.490 | 6258 |
| Endrin | 7.082 | 745471 |
| 4,4'-DDD | 7.136 | 15566 |
| 4,4'-DDT | 7.428 | 629664 |
| Endrin ketone | 8.453 | 19276 |
| Endrin aldehyde | 7.747 | 21328 |
| Hexabromobiphenyl | 9.504 | 619012 |
| Tetrachloro-m-xylene | 3.828 | 1161664 |
| Decachlorobiphenyl | 9.355 | 833312 |

DDT Percent Breakdown = 3.3 %
 $((6258+15566) * 100)/(6258+15566+629664)$

Endrin Percent Breakdown = 5.2 %
 $((21328+19276) * 100)/(21328+19276+745471)$

GC Column: STX-CLP1 ID: 0.53(mm)

| COMPOUND | RT | AREA |
|--------------------|-------|--------|
| Decachlorobiphenyl | 9.355 | 833312 |
| Decachlorobiphenyl | 9.355 | 833312 |
| Decachlorobiphenyl | 9.355 | 833312 |

| | | |
|--------------------|-------|--------|
| Decachlorobiphenyl | 9.355 | 833312 |
| Decachlorobiphenyl | 9.355 | 833312 |
| Decachlorobiphenyl | 9.355 | 833312 |
| Decachlorobiphenyl | 9.355 | 833312 |
| Decachlorobiphenyl | 9.355 | 833312 |
| Decachlorobiphenyl | 9.355 | 833312 |
| Decachlorobiphenyl | 9.355 | 833312 |



Dual Column
ANALYSIS BATCH (SEQUENCE) SUMMARY
EPA 8081B

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor OEA, LLC

Project: AOC5 MR Phase 1

Sequence: SKL0233

Instrument: ECD6

Calibration: FL00041

| Sample Name | Lab Sample ID | Column 1 File ID | Column 2 File ID | Matrix | Analysis Date/Time |
|-----------------|---------------|------------------|------------------|--------|--------------------|
| Performance Mix | SKL0233-PEM1 | 22121404.D | 22121404.D | NA | 12/14/22 20:20 |
| Cal Standard | SKL0233-CAL1 | 22121405.D | 22121405.D | NA | 12/14/22 20:38 |
| Cal Standard | SKL0233-CAL2 | 22121406.D | 22121406.D | NA | 12/14/22 20:56 |
| Cal Standard | SKL0233-CAL3 | 22121407.D | 22121407.D | NA | 12/14/22 21:14 |
| Cal Standard | SKL0233-CAL4 | 22121408.D | 22121408.D | NA | 12/14/22 21:31 |
| Cal Standard | SKL0233-CAL5 | 22121409.D | 22121409.D | NA | 12/14/22 21:49 |
| Cal Standard | SKL0233-CAL6 | 22121410.D | 22121410.D | NA | 12/14/22 22:07 |
| Cal Standard | SKL0233-CAL7 | 22121411.D | 22121411.D | NA | 12/14/22 22:25 |
| Cal Standard | SKL0233-CAL8 | 22121412.D | 22121412.D | NA | 12/14/22 22:43 |
| Cal Standard | SKL0233-CAL9 | 22121413.D | 22121413.D | NA | 12/14/22 23:01 |
| Cal Standard | SKL0233-CALA | 22121414.D | 22121414.D | NA | 12/14/22 23:19 |
| Cal Standard | SKL0233-CALB | 22121415.D | 22121415.D | NA | 12/14/22 23:36 |
| Cal Standard | SKL0233-CALC | 22121416.D | 22121416.D | NA | 12/14/22 23:54 |
| Cal Standard | SKL0233-CALD | 22121417.D | 22121417.D | NA | 12/15/22 00:12 |
| Cal Standard | SKL0233-CALE | 22121418.D | 22121418.D | NA | 12/15/22 00:30 |



ANALYSIS SEQUENCE

SKL0233

Instrument: ECD6
Calibration ID: FL00041

Element Column ID:

| Lab Number | Sample Name | Analysis | Container | Order | STD ID | ISTD ID | Analyzed | Comments |
|--------------|-------------|----------|-----------|-------|---------|---------|----------|----------|
| SKL0233-PEM1 | DS1 | QC | | 1 | K007286 | K006953 | | |
| SKL0233-CAL1 | INDAA | QC | | 2 | K011594 | K006953 | | |
| SKL0233-CAL2 | INDAB | QC | | 3 | K011593 | K006953 | | |
| SKL0233-CAL3 | INDAC | QC | | 4 | K011592 | K006953 | | |
| SKL0233-CAL4 | INDAD | QC | | 5 | K011591 | K006953 | | |
| SKL0233-CAL5 | INDAE | QC | | 6 | K011590 | K006953 | | |
| SKL0233-CAL6 | INDAF | QC | | 7 | K011589 | K006953 | | |
| SKL0233-CAL7 | INDAG | QC | | 8 | K011463 | K006953 | | |
| SKL0233-CAL8 | WNDA | QC | | 9 | K011595 | K006953 | | |
| SKL0233-CAL9 | WNDB | QC | | 10 | K007148 | K006953 | | |
| SKL0233-CALA | WNDC | QC | | 11 | K007147 | K006953 | | |
| SKL0233-CALB | WNDD | QC | | 12 | K007146 | K006953 | | |
| SKL0233-CALC | WNDE | QC | | 13 | K007145 | K006953 | | |
| SKL0233-CALD | WPDF | QC | | 14 | K007144 | K006953 | | |
| SKL0233-CALE | WNDG | QC | | 15 | K007093 | K006953 | | |
| SKL0233-CALM | NOS1 | QC | | 16 | K007375 | K006953 | | |
| SKL0233-CALN | NOS2 | QC | | 17 | K007374 | K006953 | | |
| SKL0233-CALO | NOS3 | QC | | 18 | K007373 | K006953 | | |
| SKL0233-CALP | NOS4 | QC | | 19 | K007372 | K006953 | | |
| SKL0233-CALQ | NOS5 | QC | | 20 | K007371 | K006953 | | |
| SKL0233-CALR | NOS6 | QC | | 21 | K007370 | K006953 | | |
| SKL0233-CALS | NOS7 | QC | | 22 | K007287 | K006953 | | |



ANALYSIS SEQUENCE

SKL0233

Instrument: ECD6
Calibration ID: FL00041

Element Column ID:

| Lab Number | Sample Name | Analysis | Container | Order | STD ID | ISTD ID | Analyzed | Comments |
|--------------|-------------|----------|-----------|-------|---------|---------|----------|----------|
| SKL0233-CALF | TOXAPH1 | QC | | 23 | K011601 | K006953 | | |
| SKL0233-CALG | TOXAPH2 | QC | | 24 | K011600 | K006953 | | |
| SKL0233-CALH | TOXAPH3 | QC | | 25 | K011599 | K006953 | | |
| SKL0233-CALI | TOXAPH4 | QC | | 26 | K011598 | K006953 | | |
| SKL0233-CALJ | TOXAPH5 | QC | | 27 | K011597 | K006953 | | |
| SKL0233-CALK | TOXAPH6 | QC | | 28 | K011596 | K006953 | | |
| SKL0233-CALL | TOXAPH7 | QC | | 29 | K008546 | K006953 | | |

GC LOG SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20221214.b

| | Inject | Date/Time | Filename | DF | LabID | ClientID |
|----|-------------|-----------|------------|----|--------------|----------|
| 1 | 14-DEC-2022 | 19:27 | 22121401.D | 1 | RINSE | |
| 2 | 14-DEC-2022 | 19:44 | 22121402.D | 1 | RINSE | |
| 3 | 14-DEC-2022 | 20:02 | 22121403.D | 1 | SEQ-IBL1 | |
| 4 | 14-DEC-2022 | 20:20 | 22121404.D | 1 | SEQ-PEM1 | |
| 5 | 14-DEC-2022 | 20:38 | 22121405.D | 1 | SEQ-CAL1 | |
| 6 | 14-DEC-2022 | 20:56 | 22121406.D | 1 | SEQ-CAL2 | |
| 7 | 14-DEC-2022 | 21:14 | 22121407.D | 1 | SEQ-CAL3 | |
| 8 | 14-DEC-2022 | 21:31 | 22121408.D | 1 | SEQ-CAL4 | |
| 9 | 14-DEC-2022 | 21:49 | 22121409.D | 1 | SEQ-CAL5 | |
| 10 | 14-DEC-2022 | 22:07 | 22121410.D | 1 | SEQ-CAL6 | |
| 11 | 14-DEC-2022 | 22:25 | 22121411.D | 1 | SEQ-CAL7 | |
| 12 | 14-DEC-2022 | 22:43 | 22121412.D | 1 | SEQ-CAL8 | |
| 13 | 14-DEC-2022 | 23:01 | 22121413.D | 1 | SEQ-CAL9 | |
| 14 | 14-DEC-2022 | 23:19 | 22121414.D | 1 | SEQ-CALA | |
| 15 | 14-DEC-2022 | 23:36 | 22121415.D | 1 | SEQ-CALB | |
| 16 | 14-DEC-2022 | 23:54 | 22121416.D | 1 | SEQ-CALC | |
| 17 | 15-DEC-2022 | 00:12 | 22121417.D | 1 | SEQ-CALD | |
| 18 | 15-DEC-2022 | 00:30 | 22121418.D | 1 | SEQ-CALE | |
| 19 | 15-DEC-2022 | 00:48 | 22121419.D | 1 | SEQ-SCV1 | |
| 20 | 15-DEC-2022 | 01:06 | 22121420.D | 1 | SEQ-SCV2 | |
| 21 | 15-DEC-2022 | 01:24 | 22121421.D | 1 | SEQ-CAL1A | |
| 22 | 15-DEC-2022 | 01:42 | 22121422.D | 1 | SEQ-CAL2A | |
| 23 | 15-DEC-2022 | 01:59 | 22121423.D | 1 | SEQ-CAL3A | |
| 24 | 15-DEC-2022 | 02:17 | 22121424.D | 1 | SEQ-CAL4A | |
| 25 | 15-DEC-2022 | 02:35 | 22121425.D | 1 | SEQ-CAL5A | |
| 26 | 15-DEC-2022 | 02:53 | 22121426.D | 1 | SEQ-CAL6A | |
| 27 | 15-DEC-2022 | 03:11 | 22121427.D | 1 | SEQ-CAL7A | |
| 28 | 15-DEC-2022 | 03:29 | 22121428.D | 1 | SEQ-CAL8A | |
| 29 | 15-DEC-2022 | 03:46 | 22121429.D | 1 | SEQ-CAL9A | |
| 30 | 15-DEC-2022 | 04:04 | 22121430.D | 1 | SEQ-CALAA | |
| 31 | 15-DEC-2022 | 04:22 | 22121431.D | 1 | SEQ-CALAB | |
| 32 | 15-DEC-2022 | 04:40 | 22121432.D | 1 | SEQ-CALAC | |
| 33 | 15-DEC-2022 | 04:58 | 22121433.D | 1 | SEQ-CALAD | |
| 34 | 15-DEC-2022 | 05:16 | 22121434.D | 1 | SEQ-CALAE | |
| 35 | 15-DEC-2022 | 05:33 | 22121435.D | 1 | SEQ-PEM2 | |
| 36 | 15-DEC-2022 | 05:51 | 22121436.D | 1 | SEQ-ICV1 | |
| 37 | 15-DEC-2022 | 06:09 | 22121437.D | 1 | SEQ-ICV2 | |
| 38 | 15-DEC-2022 | 06:27 | 22121438.D | 1 | SEQ-ICV3 | |
| 39 | 15-DEC-2022 | 06:45 | 22121439.D | 1 | SEQ-ICV4 | |
| 40 | 15-DEC-2022 | 07:03 | 22121440.D | 1 | BKK0688-BLK1 | |
| 41 | 15-DEC-2022 | 07:21 | 22121441.D | 1 | BKK0688-BS1 | |
| 42 | 15-DEC-2022 | 07:39 | 22121442.D | 1 | BKK0688-BS2 | |
| 43 | 15-DEC-2022 | 07:57 | 22121443.D | 1 | BKK0688-BS3 | |
| 44 | 15-DEC-2022 | 08:15 | 22121444.D | 1 | BKK0688-BSD1 | |
| 45 | 15-DEC-2022 | 08:32 | 22121445.D | 1 | BKK0142-BLK1 | |
| 46 | 15-DEC-2022 | 08:50 | 22121446.D | 1 | BKK0142-BS1 | |
| 47 | 15-DEC-2022 | 09:08 | 22121447.D | 1 | BKK0142-BS2 | |
| 48 | 15-DEC-2022 | 09:26 | 22121448.D | 1 | BKK0142-BSD1 | |
| 49 | 15-DEC-2022 | 09:44 | 22121449.D | 1 | BKK0142-MS1 | |
| 50 | 15-DEC-2022 | 10:02 | 22121450.D | 1 | BKK0142-MSD1 | |

| | Inject Date/Time | Filename | DF | LabID | ClientID |
|----|-------------------|------------|----|---------------|----------|
| 51 | 15-DEC-2022 10:20 | 22121451.D | 1 | 22J0513-01 | |
| 52 | 15-DEC-2022 10:38 | 22121452.D | 1 | 22J0513-04 | |
| 53 | 15-DEC-2022 10:55 | 22121453.D | 1 | 22J0535-01 | |
| 54 | 15-DEC-2022 11:13 | 22121454.D | 1 | 22K0429-01 | |
| 55 | 15-DEC-2022 11:31 | 22121455.D | 1 | 22K0429-02 | |
| 56 | 15-DEC-2022 11:49 | 22121456.D | 1 | 22K0429-03 | |
| 57 | 15-DEC-2022 12:07 | 22121457.D | 1 | SEQ-PEM3 | |
| 58 | 15-DEC-2022 12:25 | 22121458.D | 1 | SEQ-CCV1 | |
| 59 | 15-DEC-2022 12:43 | 22121459.D | 1 | SEQ-CCV2 | |
| 60 | 15-DEC-2022 13:01 | 22121460.D | 1 | SEQ-CCV3 | |
| 61 | 15-DEC-2022 13:19 | 22121461.D | 1 | SEQ-CCV4 | |
| 62 | 15-DEC-2022 13:36 | 22121462.D | 1 | BKK0380-BLK1 | |
| 63 | 15-DEC-2022 13:54 | 22121463.D | 1 | BKK0380-BS1 | |
| 64 | 15-DEC-2022 14:12 | 22121464.D | 1 | BKK0380-BSD1 | |
| 65 | 15-DEC-2022 14:30 | 22121465.D | 1 | 22K0157-01 | |
| 66 | 15-DEC-2022 14:48 | 22121466.D | 1 | 22K0230-01 | |
| 67 | 15-DEC-2022 15:06 | 22121467.D | 1 | 22K0231-01 | |
| 68 | 15-DEC-2022 15:24 | 22121468.D | 1 | BKK0382-BLK1 | |
| 69 | 15-DEC-2022 15:42 | 22121469.D | 1 | BKK0382-BS1 | |
| 70 | 15-DEC-2022 16:00 | 22121470.D | 1 | BKK0382-BS2 | |
| 71 | 15-DEC-2022 16:18 | 22121471.D | 1 | BKK0382-BSD1 | |
| 72 | 15-DEC-2022 16:35 | 22121472.D | 1 | 22K0075-01 | |
| 73 | 15-DEC-2022 16:53 | 22121473.D | 1 | SEQ-PEM4 | |
| 74 | 15-DEC-2022 17:11 | 22121474.D | 1 | SEQ-CCV5 | |
| 75 | 15-DEC-2022 17:29 | 22121475.D | 1 | SEQ-CCV6 | |
| 76 | 15-DEC-2022 17:47 | 22121476.D | 1 | SEQ-CCV7 | |
| 77 | 15-DEC-2022 18:05 | 22121477.D | 1 | SEQ-CCV8 | |
| 78 | 15-DEC-2022 18:23 | 22121478.D | 1 | BKK0537-BLK1 | |
| 79 | 15-DEC-2022 18:40 | 22121479.D | 1 | BKK0537-BS1 | |
| 80 | 15-DEC-2022 18:58 | 22121480.D | 1 | BKK0537-BS2 | |
| 81 | 15-DEC-2022 19:16 | 22121481.D | 1 | 22K0194-01 | |
| 82 | 15-DEC-2022 19:34 | 22121482.D | 1 | 22K0194-01RE1 | 10 |
| 83 | 15-DEC-2022 19:52 | 22121483.D | 1 | SEQ-PEM5 | |
| 84 | 15-DEC-2022 20:09 | 22121484.D | 1 | SEQ-CCV9 | |
| 85 | 15-DEC-2022 20:27 | 22121485.D | 1 | SEQ-CCVA | |
| 86 | 15-DEC-2022 20:45 | 22121486.D | 1 | SEQ-CCVB | |
| 87 | 15-DEC-2022 21:03 | 22121487.D | 1 | SEQ-CCVC | |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20221214.b

ARI Job No.: RINS Method: PEST.m Instrument: ecd6.i Date: 14-DEC-2022

| Time | Filename | LabID | ClientId | DF | Manually Integrated Compounds |
|------|------------|----------|----------|----|-------------------------------|
| 1927 | 22121401.D | RINSE | | 1 | NO MANUAL INTEGRATION |
| 1944 | 22121402.D | RINSE | | 1 | NO MANUAL INTEGRATION |
| 2002 | 22121403.D | SEQ-IBL1 | | 1 | NO MANUAL INTEGRATION |
| 2020 | 22121404.D | SEQ-PEM1 | | 1 | NO MANUAL INTEGRATION |
| 2038 | 22121405.D | SEQ-CAL1 | | 1 | NO MANUAL INTEGRATION |
| 2056 | 22121406.D | SEQ-CAL2 | | 1 | NO MANUAL INTEGRATION |
| 2114 | 22121407.D | SEQ-CAL3 | | 1 | NO MANUAL INTEGRATION |
| 2131 | 22121408.D | SEQ-CAL4 | | 1 | NO MANUAL INTEGRATION |
| 2149 | 22121409.D | SEQ-CAL5 | | 1 | NO MANUAL INTEGRATION |
| 2207 | 22121410.D | SEQ-CAL6 | | 1 | NO MANUAL INTEGRATION |
| 2225 | 22121411.D | SEQ-CAL7 | | 1 | NO MANUAL INTEGRATION |
| 2243 | 22121412.D | SEQ-CAL8 | | 1 | NO MANUAL INTEGRATION |
| 2301 | 22121413.D | SEQ-CAL9 | | 1 | NO MANUAL INTEGRATION |
| 2319 | 22121414.D | SEQ-CALA | | 1 | NO MANUAL INTEGRATION |
| 2336 | 22121415.D | SEQ-CALB | | 1 | NO MANUAL INTEGRATION |
| 2354 | 22121416.D | SEQ-CALC | | 1 | NO MANUAL INTEGRATION |
| 0012 | 22121417.D | SEQ-CALD | | 1 | NO MANUAL INTEGRATION |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20221214.b

| Time | Filename | LabID | ClientId | DF | Manually Integrated Compounds |
|------|------------|-----------|----------|----|-------------------------------|
| 0030 | 22121418.D | SEQ-CALE | 1 | | NO MANUAL INTEGRATION |
| 0048 | 22121419.D | SEQ-SCV1 | 1 | | NO MANUAL INTEGRATION |
| 0106 | 22121420.D | SEQ-SCV2 | 1 | | NO MANUAL INTEGRATION |
| 0124 | 22121421.D | SEQ-CAL1A | 1 | | NO MANUAL INTEGRATION |
| 0142 | 22121422.D | SEQ-CAL2A | 1 | | NO MANUAL INTEGRATION |
| 0159 | 22121423.D | SEQ-CAL3A | 1 | | NO MANUAL INTEGRATION |
| 0217 | 22121424.D | SEQ-CAL4A | 1 | | NO MANUAL INTEGRATION |
| 0235 | 22121425.D | SEQ-CAL5A | 1 | | NO MANUAL INTEGRATION |
| 0253 | 22121426.D | SEQ-CAL6A | 1 | | NO MANUAL INTEGRATION |
| 0311 | 22121427.D | SEQ-CAL7A | 1 | | NO MANUAL INTEGRATION |
| 0329 | 22121428.D | SEQ-CAL8A | 1 | | NO MANUAL INTEGRATION |
| 0346 | 22121429.D | SEQ-CAL9A | 1 | | NO MANUAL INTEGRATION |
| 0404 | 22121430.D | SEQ-CALAA | 1 | | NO MANUAL INTEGRATION |
| 0422 | 22121431.D | SEQ-CALAB | 1 | | NO MANUAL INTEGRATION |
| 0440 | 22121432.D | SEQ-CALAC | 1 | | NO MANUAL INTEGRATION |
| 0458 | 22121433.D | SEQ-CALAD | 1 | | NO MANUAL INTEGRATION |
| 0516 | 22121434.D | SEQ-CALAE | 1 | | NO MANUAL INTEGRATION |
| 0533 | 22121435.D | SEQ-PEM2 | 1 | | NO MANUAL INTEGRATION |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20221214.b

| Time | Filename | LabID | ClientId | DF | Manually Integrated Compounds |
|------|------------|--------------|----------|----|-------------------------------|
| 0551 | 22121436.D | SEQ-ICV1 | 1 | | NO MANUAL INTEGRATION |
| 0609 | 22121437.D | SEQ-ICV2 | 1 | | NO MANUAL INTEGRATION |
| 0627 | 22121438.D | SEQ-ICV3 | 1 | | NO MANUAL INTEGRATION |
| 0645 | 22121439.D | SEQ-ICV4 | 1 | | NO MANUAL INTEGRATION |
| 0703 | 22121440.D | BKK0688-BLK1 | 1 | | NO MANUAL INTEGRATION |
| 0721 | 22121441.D | BKK0688-BS1 | 1 | | NO MANUAL INTEGRATION |
| 0739 | 22121442.D | BKK0688-BS2 | 1 | | NO MANUAL INTEGRATION |
| 0757 | 22121443.D | BKK0688-BS3 | 1 | | NO MANUAL INTEGRATION |
| 0815 | 22121444.D | BKK0688-BSD1 | 1 | | NO MANUAL INTEGRATION |
| 0832 | 22121445.D | BKK0142-BLK1 | 1 | | NO MANUAL INTEGRATION |
| 0850 | 22121446.D | BKK0142-BS1 | 1 | | NO MANUAL INTEGRATION |
| 0908 | 22121447.D | BKK0142-BS2 | 1 | | NO MANUAL INTEGRATION |
| 0926 | 22121448.D | BKK0142-BSD1 | 1 | | NO MANUAL INTEGRATION |
| 0944 | 22121449.D | BKK0142-MS1 | 1 | | NO MANUAL INTEGRATION |
| 1002 | 22121450.D | BKK0142-MSD1 | 1 | | NO MANUAL INTEGRATION |
| 1020 | 22121451.D | 22J0513-01 | 1 | | NO MANUAL INTEGRATION |
| 1038 | 22121452.D | 22J0513-04 | 1 | | NO MANUAL INTEGRATION |
| 1055 | 22121453.D | 22J0535-01 | 1 | | trans-Chlordane, |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20221214.b

| Time | Filename | LabID | ClientId | DF | Manually Integrated Compounds |
|------|------------|--------------|----------|----|-------------------------------|
| 1113 | 22121454.D | 22K0429-01 | 1 | | Heptachlor epoxide b, |
| 1131 | 22121455.D | 22K0429-02 | 1 | | Heptachlor epoxide b, |
| 1149 | 22121456.D | 22K0429-03 | 1 | | Hexachlorobenzene, |
| 1207 | 22121457.D | SEQ-PEM3 | 1 | | NO MANUAL INTEGRATION |
| 1225 | 22121458.D | SEQ-CCV1 | 1 | | NO MANUAL INTEGRATION |
| 1243 | 22121459.D | SEQ-CCV2 | 1 | | NO MANUAL INTEGRATION |
| 1301 | 22121460.D | SEQ-CCV3 | 1 | | NO MANUAL INTEGRATION |
| 1319 | 22121461.D | SEQ-CCV4 | 1 | | NO MANUAL INTEGRATION |
| 1336 | 22121462.D | BKK0380-BLK1 | 1 | | NO MANUAL INTEGRATION |
| 1354 | 22121463.D | BKK0380-BS1 | 1 | | NO MANUAL INTEGRATION |
| 1412 | 22121464.D | BKK0380-BSD1 | 1 | | NO MANUAL INTEGRATION |
| 1430 | 22121465.D | 22K0157-01 | 1 | | NO MANUAL INTEGRATION |
| 1448 | 22121466.D | 22K0230-01 | 1 | | NO MANUAL INTEGRATION |
| 1506 | 22121467.D | 22K0231-01 | 1 | | NO MANUAL INTEGRATION |
| 1524 | 22121468.D | BKK0382-BLK1 | 1 | | NO MANUAL INTEGRATION |
| 1542 | 22121469.D | BKK0382-BS1 | 1 | | NO MANUAL INTEGRATION |
| 1600 | 22121470.D | BKK0382-BS2 | 1 | | NO MANUAL INTEGRATION |
| 1618 | 22121471.D | BKK0382-BSD1 | 1 | | NO MANUAL INTEGRATION |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20221214.b

| Time | Filename | LabID | ClientId | DF | Manually Integrated Compounds |
|------|------------|------------------|----------|----|-------------------------------|
| 1635 | 22121472.D | 22K0075-01 | | 1 | NO MANUAL INTEGRATION |
| 1653 | 22121473.D | SEQ-PEM4 | | 1 | NO MANUAL INTEGRATION |
| 1711 | 22121474.D | SEQ-CCV5 | | 1 | NO MANUAL INTEGRATION |
| 1729 | 22121475.D | SEQ-CCV6 | | 1 | NO MANUAL INTEGRATION |
| 1747 | 22121476.D | SEQ-CCV7 | | 1 | NO MANUAL INTEGRATION |
| 1805 | 22121477.D | SEQ-CCV8 | | 1 | NO MANUAL INTEGRATION |
| 1823 | 22121478.D | BKK0537-BLK1 | | 1 | NO MANUAL INTEGRATION |
| 1840 | 22121479.D | BKK0537-BS1 | | 1 | NO MANUAL INTEGRATION |
| 1858 | 22121480.D | BKK0537-BS2 | | 1 | NO MANUAL INTEGRATION |
| 1916 | 22121481.D | 22K0194-01 | | 1 | NO MANUAL INTEGRATION |
| 1934 | 22121482.D | 22K0194-01RE1 10 | | 1 | NO MANUAL INTEGRATION |
| 1952 | 22121483.D | SEQ-PEM5 | | 1 | NO MANUAL INTEGRATION |
| 2009 | 22121484.D | SEQ-CCV9 | | 1 | NO MANUAL INTEGRATION |
| 2027 | 22121485.D | SEQ-CCVA | | 1 | NO MANUAL INTEGRATION |
| 2045 | 22121486.D | SEQ-CCVB | | 1 | NO MANUAL INTEGRATION |
| 2103 | 22121487.D | SEQ-CCVC | | 1 | NO MANUAL INTEGRATION |
| 1927 | 22121401.D | RINSE | | 1 | NO MANUAL INTEGRATION |
| 1944 | 22121402.D | RINSE | | 1 | NO MANUAL INTEGRATION |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20221214.b\B20221214.b

| Time | Filename | LabID | ClientId | DF | Manually Integrated Compounds |
|------|------------|----------|----------|----|-------------------------------|
| 2002 | 22121403.D | SEQ-IBL1 | 1 | | NO MANUAL INTEGRATION |
| 2020 | 22121404.D | SEQ-PEM1 | 1 | | NO MANUAL INTEGRATION |
| 2038 | 22121405.D | SEQ-CAL1 | 1 | | NO MANUAL INTEGRATION |
| 2056 | 22121406.D | SEQ-CAL2 | 1 | | NO MANUAL INTEGRATION |
| 2114 | 22121407.D | SEQ-CAL3 | 1 | | NO MANUAL INTEGRATION |
| 2131 | 22121408.D | SEQ-CAL4 | 1 | | NO MANUAL INTEGRATION |
| 2149 | 22121409.D | SEQ-CAL5 | 1 | | NO MANUAL INTEGRATION |
| 2207 | 22121410.D | SEQ-CAL6 | 1 | | NO MANUAL INTEGRATION |
| 2225 | 22121411.D | SEQ-CAL7 | 1 | | NO MANUAL INTEGRATION |
| 2243 | 22121412.D | SEQ-CAL8 | 1 | | NO MANUAL INTEGRATION |
| 2301 | 22121413.D | SEQ-CAL9 | 1 | | NO MANUAL INTEGRATION |
| 2319 | 22121414.D | SEQ-CALA | 1 | | NO MANUAL INTEGRATION |
| 2336 | 22121415.D | SEQ-CALB | 1 | | NO MANUAL INTEGRATION |
| 2354 | 22121416.D | SEQ-CALC | 1 | | NO MANUAL INTEGRATION |
| 0012 | 22121417.D | SEQ-CALD | 1 | | NO MANUAL INTEGRATION |
| 0030 | 22121418.D | SEQ-CALE | 1 | | NO MANUAL INTEGRATION |
| 0048 | 22121419.D | SEQ-SCV1 | 1 | | NO MANUAL INTEGRATION |
| 0106 | 22121420.D | SEQ-SCV2 | 1 | | NO MANUAL INTEGRATION |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20221214.b\B20221214.b

| Time | Filename | LabID | ClientId | DF | Manually Integrated Compounds |
|------|------------|-----------|----------|----|-------------------------------|
| 0124 | 22121421.D | SEQ-CAL1A | 1 | | NO MANUAL INTEGRATION |
| 0142 | 22121422.D | SEQ-CAL2A | 1 | | NO MANUAL INTEGRATION |
| 0159 | 22121423.D | SEQ-CAL3A | 1 | | NO MANUAL INTEGRATION |
| 0217 | 22121424.D | SEQ-CAL4A | 1 | | NO MANUAL INTEGRATION |
| 0235 | 22121425.D | SEQ-CAL5A | 1 | | NO MANUAL INTEGRATION |
| 0253 | 22121426.D | SEQ-CAL6A | 1 | | NO MANUAL INTEGRATION |
| 0311 | 22121427.D | SEQ-CAL7A | 1 | | NO MANUAL INTEGRATION |
| 0329 | 22121428.D | SEQ-CAL8A | 1 | | NO MANUAL INTEGRATION |
| 0346 | 22121429.D | SEQ-CAL9A | 1 | | NO MANUAL INTEGRATION |
| 0404 | 22121430.D | SEQ-CALAA | 1 | | NO MANUAL INTEGRATION |
| 0422 | 22121431.D | SEQ-CALAB | 1 | | NO MANUAL INTEGRATION |
| 0440 | 22121432.D | SEQ-CALAC | 1 | | NO MANUAL INTEGRATION |
| 0458 | 22121433.D | SEQ-CALAD | 1 | | NO MANUAL INTEGRATION |
| 0516 | 22121434.D | SEQ-CALAE | 1 | | NO MANUAL INTEGRATION |
| 0533 | 22121435.D | SEQ-PEM2 | 1 | | NO MANUAL INTEGRATION |
| 0551 | 22121436.D | SEQ-ICV1 | 1 | | NO MANUAL INTEGRATION |
| 0609 | 22121437.D | SEQ-ICV2 | 1 | | NO MANUAL INTEGRATION |
| 0627 | 22121438.D | SEQ-ICV3 | 1 | | NO MANUAL INTEGRATION |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20221214.b\B20221214.b

| Time | Filename | LabID | ClientId | DF | Manually Integrated Compounds |
|------|------------|--------------|----------|----|--|
| 0645 | 22121439.D | SEQ-ICV4 | 1 | | NO MANUAL INTEGRATION |
| 0703 | 22121440.D | BKK0688-BLK1 | 1 | | NO MANUAL INTEGRATION |
| 0721 | 22121441.D | BKK0688-BS1 | 1 | | NO MANUAL INTEGRATION |
| 0739 | 22121442.D | BKK0688-BS2 | 1 | | NO MANUAL INTEGRATION |
| 0757 | 22121443.D | BKK0688-BS3 | 1 | | NO MANUAL INTEGRATION |
| 0815 | 22121444.D | BKK0688-BSD1 | 1 | | NO MANUAL INTEGRATION |
| 0832 | 22121445.D | BKK0142-BLK1 | 1 | | NO MANUAL INTEGRATION |
| 0850 | 22121446.D | BKK0142-BS1 | 1 | | NO MANUAL INTEGRATION |
| 0908 | 22121447.D | BKK0142-BS2 | 1 | | NO MANUAL INTEGRATION |
| 0926 | 22121448.D | BKK0142-BSD1 | 1 | | NO MANUAL INTEGRATION |
| 0944 | 22121449.D | BKK0142-MS1 | 1 | | NO MANUAL INTEGRATION |
| 1002 | 22121450.D | BKK0142-MSD1 | 1 | | NO MANUAL INTEGRATION |
| 1020 | 22121451.D | 22J0513-01 | 1 | | NO MANUAL INTEGRATION |
| 1038 | 22121452.D | 22J0513-04 | 1 | | NO MANUAL INTEGRATION |
| 1055 | 22121453.D | 22J0535-01 | 1 | | trans-Chlordane [C], |
| 1113 | 22121454.D | 22K0429-01 | 1 | | NO MANUAL INTEGRATION |
| 1131 | 22121455.D | 22K0429-02 | 1 | | Aldrin [C], Heptachlor epoxide b [C], trans-Chlordane [C], |
| 1149 | 22121456.D | 22K0429-03 | 1 | | Aldrin [C], |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20221214.b\B20221214.b

| Time | Filename | LabID | ClientId | DF | Manually Integrated Compounds |
|------|-------------------------|-------|----------|----|-------------------------------|
| 1207 | 22121457.D SEQ-PEM3 | | 1 | | NO MANUAL INTEGRATION |
| 1225 | 22121458.D SEQ-CCV1 | | 1 | | NO MANUAL INTEGRATION |
| 1243 | 22121459.D SEQ-CCV2 | | 1 | | NO MANUAL INTEGRATION |
| 1301 | 22121460.D SEQ-CCV3 | | 1 | | NO MANUAL INTEGRATION |
| 1319 | 22121461.D SEQ-CCV4 | | 1 | | NO MANUAL INTEGRATION |
| 1336 | 22121462.D BKK0380-BLK1 | | 1 | | NO MANUAL INTEGRATION |
| 1354 | 22121463.D BKK0380-BS1 | | 1 | | NO MANUAL INTEGRATION |
| 1412 | 22121464.D BKK0380-BSD1 | | 1 | | NO MANUAL INTEGRATION |
| 1430 | 22121465.D 22K0157-01 | | 1 | | NO MANUAL INTEGRATION |
| 1448 | 22121466.D 22K0230-01 | | 1 | | NO MANUAL INTEGRATION |
| 1506 | 22121467.D 22K0231-01 | | 1 | | NO MANUAL INTEGRATION |
| 1524 | 22121468.D BKK0382-BLK1 | | 1 | | NO MANUAL INTEGRATION |
| 1542 | 22121469.D BKK0382-BS1 | | 1 | | NO MANUAL INTEGRATION |
| 1600 | 22121470.D BKK0382-BS2 | | 1 | | NO MANUAL INTEGRATION |
| 1618 | 22121471.D BKK0382-BSD1 | | 1 | | NO MANUAL INTEGRATION |
| 1635 | 22121472.D 22K0075-01 | | 1 | | NO MANUAL INTEGRATION |
| 1653 | 22121473.D SEQ-PEM4 | | 1 | | NO MANUAL INTEGRATION |
| 1711 | 22121474.D SEQ-CCV5 | | 1 | | NO MANUAL INTEGRATION |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20221214.b\B20221214.b

| Time | Filename | LabID | ClientId | DF | Manually Integrated Compounds |
|------|------------|------------------|----------|----|-------------------------------|
| 1729 | 22121475.D | SEQ-CCV6 | | 1 | NO MANUAL INTEGRATION |
| 1747 | 22121476.D | SEQ-CCV7 | | 1 | NO MANUAL INTEGRATION |
| 1805 | 22121477.D | SEQ-CCV8 | | 1 | NO MANUAL INTEGRATION |
| 1823 | 22121478.D | BKK0537-BLK1 | | 1 | NO MANUAL INTEGRATION |
| 1840 | 22121479.D | BKK0537-BS1 | | 1 | NO MANUAL INTEGRATION |
| 1858 | 22121480.D | BKK0537-BS2 | | 1 | NO MANUAL INTEGRATION |
| 1916 | 22121481.D | 22K0194-01 | | 1 | NO MANUAL INTEGRATION |
| 1934 | 22121482.D | 22K0194-01RE1 10 | | 1 | NO MANUAL INTEGRATION |
| 1952 | 22121483.D | SEQ-PEM5 | | 1 | NO MANUAL INTEGRATION |
| 2010 | 22121484.D | SEQ-CCV9 | | 1 | NO MANUAL INTEGRATION |
| 2027 | 22121485.D | SEQ-CCVA | | 1 | NO MANUAL INTEGRATION |
| 2045 | 22121486.D | SEQ-CCVB | | 1 | NO MANUAL INTEGRATION |
| 2103 | 22121487.D | SEQ-CCVC | | 1 | NO MANUAL INTEGRATION |

Security Status Report

Date: 17-Dec-2022 10:57

| | | | | |
|------------|-------------|---------|-------------|-------|
| 22121401.D | Data Locked | jrains, | 17-Dec-2022 | 10:57 |
| 22121402.D | Data Locked | jrains, | 17-Dec-2022 | 10:57 |
| 22121403.D | Data Locked | jrains, | 17-Dec-2022 | 10:57 |
| 22121404.D | Data Locked | jrains, | 17-Dec-2022 | 10:57 |
| 22121405.D | Data Locked | jrains, | 17-Dec-2022 | 10:57 |
| 22121406.D | Data Locked | jrains, | 17-Dec-2022 | 10:57 |
| 22121407.D | Data Locked | jrains, | 17-Dec-2022 | 10:57 |
| 22121408.D | Data Locked | jrains, | 17-Dec-2022 | 10:57 |
| 22121409.D | Data Locked | jrains, | 17-Dec-2022 | 10:57 |
| 22121410.D | Data Locked | jrains, | 17-Dec-2022 | 10:57 |
| 22121411.D | Data Locked | jrains, | 17-Dec-2022 | 10:57 |
| 22121412.D | Data Locked | jrains, | 17-Dec-2022 | 10:57 |
| 22121413.D | Data Locked | jrains, | 17-Dec-2022 | 10:57 |
| 22121414.D | Data Locked | jrains, | 17-Dec-2022 | 10:57 |
| 22121415.D | Data Locked | jrains, | 17-Dec-2022 | 10:57 |
| 22121416.D | Data Locked | jrains, | 17-Dec-2022 | 10:57 |
| 22121417.D | Data Locked | jrains, | 17-Dec-2022 | 10:57 |
| 22121418.D | Data Locked | jrains, | 17-Dec-2022 | 10:57 |
| 22121419.D | Data Locked | jrains, | 17-Dec-2022 | 10:57 |
| 22121420.D | Data Locked | jrains, | 17-Dec-2022 | 10:57 |
| 22121421.D | Data Locked | jrains, | 17-Dec-2022 | 10:57 |
| 22121422.D | Data Locked | jrains, | 17-Dec-2022 | 10:57 |
| 22121423.D | Data Locked | jrains, | 17-Dec-2022 | 10:57 |
| 22121424.D | Data Locked | jrains, | 17-Dec-2022 | 10:57 |
| 22121425.D | Data Locked | jrains, | 17-Dec-2022 | 10:57 |
| 22121426.D | Data Locked | jrains, | 17-Dec-2022 | 10:57 |
| 22121427.D | Data Locked | jrains, | 17-Dec-2022 | 10:57 |
| 22121428.D | Data Locked | jrains, | 17-Dec-2022 | 10:57 |
| 22121429.D | Data Locked | jrains, | 17-Dec-2022 | 10:57 |
| 22121430.D | Data Locked | jrains, | 17-Dec-2022 | 10:57 |
| 22121431.D | Data Locked | jrains, | 17-Dec-2022 | 10:57 |
| 22121432.D | Data Locked | jrains, | 17-Dec-2022 | 10:57 |
| 22121433.D | Data Locked | jrains, | 17-Dec-2022 | 10:57 |
| 22121434.D | Data Locked | jrains, | 17-Dec-2022 | 10:57 |



Dual Column
ANALYSIS BATCH (SEQUENCE) SUMMARY
EPA 8081B

| | | | |
|-------------|----------------------------------|--------------|------------------------|
| Laboratory: | <u>Analytical Resources, LLC</u> | SDG: | <u>23A0180</u> |
| Client: | <u>Anchor QEA, LLC</u> | Project: | <u>AOC5 MR Phase 1</u> |
| Sequence: | <u>SLB0156</u> | Instrument: | <u>ECD6</u> |
| | | Calibration: | <u>FL00041</u> |

| Sample Name | Lab Sample ID | Column 1 File ID | Column 2 File ID | Matrix | Analysis Date/Time |
|-------------------|---------------|------------------|------------------|--------|--------------------|
| Initial Cal Check | SLB0156-ICV1 | 23020903.D | 23020903.D | NA | 02/09/23 20:06 |
| Calibration Check | SLB0156-CCV1 | 23020920.D | 23020920.D | NA | 02/10/23 01:10 |
| Blank | BLA0556-BLK1 | 23020925.D | 23020925.D | Solid | 02/10/23 02:39 |
| LCS | BLA0556-BS1 | 23020926.D | 23020926.D | Solid | 02/10/23 02:57 |
| LCS Dup | BLA0556-BSD1 | 23020927.D | 23020927.D | Solid | 02/10/23 03:15 |
| Calibration Check | SLB0156-CCV2 | 23020937.D | 23020937.D | NA | 02/10/23 06:14 |
| LDW23-SC1164 | 23A0180-01 | 23020944.D | 23020944.D | Solid | 02/10/23 08:19 |
| LDW23-SC1164-FD | 23A0180-02 | 23020945.D | 23020945.D | Solid | 02/10/23 08:37 |
| LDW23-SC1158 | 23A0180-03 | 23020946.D | 23020946.D | Solid | 02/10/23 08:54 |
| LDW23-SC1151 | 23A0180-04 | 23020947.D | 23020947.D | Solid | 02/10/23 09:12 |
| Calibration Check | SLB0156-CCV3 | 23020949.D | 23020949.D | NA | 02/10/23 09:48 |



ANALYSIS SEQUENCE

SLB0156

Instrument: ECD6
Calibration ID: FL00041

Printed: 2/11/2023 12:06:57PM

| Lab Number | Analysis | Container | Order | Position | STD ID | ISTD ID | Client | Comments |
|--------------|--------------------|-----------|-------|----------|---------|---------|-----------------|----------|
| SLB0156-ICV1 | QC | | 1 | | L000845 | L000844 | | |
| 23A0134-15 | 8081B Pest (PSDDA) | C 01 | 2 | | | L000844 | Anchor QEA, LLC | |
| BLA0553-BLK1 | QC | | 3 | | | L000844 | | |
| BLA0553-BS1 | QC | | 4 | | | L000844 | | |
| BLA0553-BSD1 | QC | | 5 | | | L000844 | | |
| BLA0553-MS1 | QC | | 6 | | | L000844 | | |
| BLA0553-MSD1 | QC | | 7 | | | L000844 | | |
| 23A0158-04 | 8081B Pest (PSDDA) | A 01 | 8 | | | L000844 | Anchor QEA, LLC | |
| 23A0158-05 | 8081B Pest (PSDDA) | A 01 | 9 | | | L000844 | Anchor QEA, LLC | |
| 23A0158-06 | 8081B Pest (PSDDA) | A 01 | 10 | | | L000844 | Anchor QEA, LLC | |
| 23A0158-07 | 8081B Pest (PSDDA) | A 01 | 11 | | | L000844 | Anchor QEA, LLC | |
| 23A0158-08 | 8081B Pest (PSDDA) | A 01 | 12 | | | L000844 | Anchor QEA, LLC | |
| 23A0158-09 | 8081B Pest (PSDDA) | A 01 | 13 | | | L000844 | Anchor QEA, LLC | |
| 23A0158-10 | 8081B Pest (PSDDA) | A 01 | 14 | | | L000844 | Anchor QEA, LLC | |
| 23A0158-11 | 8081B Pest (PSDDA) | A 01 | 15 | | | L000844 | Anchor QEA, LLC | |
| 23A0158-12 | 8081B Pest (PSDDA) | A 01 | 16 | | | L000844 | Anchor QEA, LLC | |
| SLB0156-PEM1 | QC | | 17 | | K007286 | L000844 | | |
| SLB0156-CCV1 | QC | | 18 | | L000845 | L000844 | | |
| 23A0158-13 | 8081B Pest (PSDDA) | A 01 | 19 | | | L000844 | Anchor QEA, LLC | |
| 23A0158-14 | 8081B Pest (PSDDA) | A 01 | 20 | | | L000844 | Anchor QEA, LLC | |
| 23A0158-15 | 8081B Pest (PSDDA) | A 01 | 21 | | | L000844 | Anchor QEA, LLC | |

Samples Loaded By _____ Date _____

Data Processed By _____ Date _____



ANALYSIS SEQUENCE

SLB0156

Instrument: ECD6
Calibration ID: FL00041

Printed: 2/11/2023 12:06:57PM

| Lab Number | Analysis | Container | Order | Position | STD ID | ISTD ID | Client | Comments |
|--------------|--------------------|-----------|-------|----------|---------|---------|-----------------|----------|
| 23A0158-16 | 8081B Pest (PSDDA) | A 01 | 22 | | | L000844 | Anchor QEA, LLC | |
| BLA0556-BLK1 | QC | | 23 | | | L000844 | | |
| BLA0556-BS1 | QC | | 24 | | | L000844 | | |
| BLA0556-BSD1 | QC | | 25 | | | L000844 | | |
| BLA0556-MS1 | QC | | 26 | | | L000844 | | |
| BLA0556-MSD1 | QC | | 27 | | | L000844 | | |
| 23A0179-01 | 8081B Pest (PSDDA) | A 01 | 28 | | | L000844 | Anchor QEA, LLC | |
| 23A0179-02 | 8081B Pest (PSDDA) | A 01 | 29 | | | L000844 | Anchor QEA, LLC | |
| 23A0179-03 | 8081B Pest (PSDDA) | A 01 | 30 | | | L000844 | Anchor QEA, LLC | |
| 23A0179-04 | 8081B Pest (PSDDA) | A 01 | 31 | | | L000844 | Anchor QEA, LLC | |
| 23A0179-05 | 8081B Pest (PSDDA) | A 01 | 32 | | | L000844 | Anchor QEA, LLC | |
| 23A0179-06 | 8081B Pest (PSDDA) | A 01 | 33 | | | L000844 | Anchor QEA, LLC | |
| SLB0156-PEM2 | QC | | 34 | | K007286 | L000844 | | |
| SLB0156-CCV2 | QC | | 35 | | L000845 | L000844 | | |
| 23A0179-07 | 8081B Pest (PSDDA) | A 01 | 36 | | | L000844 | Anchor QEA, LLC | |
| 23A0179-08 | 8081B Pest (PSDDA) | A 01 | 37 | | | L000844 | Anchor QEA, LLC | |
| 23A0179-09 | 8081B Pest (PSDDA) | A 01 | 38 | | | L000844 | Anchor QEA, LLC | |
| 23A0179-10 | 8081B Pest (PSDDA) | A 01 | 39 | | | L000844 | Anchor QEA, LLC | |
| 23A0179-11 | 8081B Pest (PSDDA) | A 01 | 40 | | | L000844 | Anchor QEA, LLC | |
| 23A0179-12 | 8081B Pest (PSDDA) | A 01 | 41 | | | L000844 | Anchor QEA, LLC | |
| 23A0180-01 | 8081B Pest (PSDDA) | A 01 | 42 | | | L000844 | Anchor QEA, LLC | |

Samples Loaded By _____ Date _____

Data Processed By _____ Date _____

GC LOG SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20230209.b

| | Inject | Date/Time | Filename | DF | LabID | ClientID |
|----|-------------|-----------|------------|----|--------------|----------|
| 1 | 09-FEB-2023 | 19:30 | 23020901.D | 1 | RINSE | |
| 2 | 09-FEB-2023 | 19:48 | 23020902.D | 1 | SEQ-PEM1 | |
| 3 | 09-FEB-2023 | 20:06 | 23020903.D | 1 | SEQ-ICV1 | |
| 4 | 09-FEB-2023 | 20:24 | 23020904.D | 1 | 23A0134-15 | |
| 5 | 09-FEB-2023 | 20:41 | 23020905.D | 1 | BLA0553-BLK1 | |
| 6 | 09-FEB-2023 | 20:59 | 23020906.D | 1 | BLA0553-BS1 | |
| 7 | 09-FEB-2023 | 21:17 | 23020907.D | 1 | BLA0553-BSD1 | |
| 8 | 09-FEB-2023 | 21:35 | 23020908.D | 1 | BLA0553-MS1 | |
| 9 | 09-FEB-2023 | 21:53 | 23020909.D | 1 | BLA0553-MSD1 | |
| 10 | 09-FEB-2023 | 22:11 | 23020910.D | 1 | 23A0158-04 | |
| 11 | 09-FEB-2023 | 22:29 | 23020911.D | 1 | 23A0158-05 | |
| 12 | 09-FEB-2023 | 22:47 | 23020912.D | 1 | 23A0158-06 | |
| 13 | 09-FEB-2023 | 23:05 | 23020913.D | 1 | 23A0158-07 | |
| 14 | 09-FEB-2023 | 23:23 | 23020914.D | 1 | 23A0158-08 | |
| 15 | 09-FEB-2023 | 23:40 | 23020915.D | 1 | 23A0158-09 | |
| 16 | 09-FEB-2023 | 23:58 | 23020916.D | 1 | 23A0158-10 | |
| 17 | 10-FEB-2023 | 00:16 | 23020917.D | 1 | 23A0158-11 | |
| 18 | 10-FEB-2023 | 00:34 | 23020918.D | 1 | 23A0158-12 | |
| 19 | 10-FEB-2023 | 00:52 | 23020919.D | 1 | SEQ-PEM2 | |
| 20 | 10-FEB-2023 | 01:10 | 23020920.D | 1 | SEQ-CCV1 | |
| 21 | 10-FEB-2023 | 01:28 | 23020921.D | 1 | 23A0158-13 | |
| 22 | 10-FEB-2023 | 01:46 | 23020922.D | 1 | 23A0158-14 | |
| 23 | 10-FEB-2023 | 02:04 | 23020923.D | 1 | 23A0158-15 | |
| 24 | 10-FEB-2023 | 02:21 | 23020924.D | 1 | 23A0158-16 | |
| 25 | 10-FEB-2023 | 02:39 | 23020925.D | 1 | BLA0556-BLK1 | |
| 26 | 10-FEB-2023 | 02:57 | 23020926.D | 1 | BLA0556-BS1 | |
| 27 | 10-FEB-2023 | 03:15 | 23020927.D | 1 | BLA0556-BSD1 | |
| 28 | 10-FEB-2023 | 03:33 | 23020928.D | 1 | BLA0556-MS1 | |
| 29 | 10-FEB-2023 | 03:51 | 23020929.D | 1 | BLA0556-MSD1 | |
| 30 | 10-FEB-2023 | 04:09 | 23020930.D | 1 | 23A0179-01 | |
| 31 | 10-FEB-2023 | 04:26 | 23020931.D | 1 | 23A0179-02 | |
| 32 | 10-FEB-2023 | 04:44 | 23020932.D | 1 | 23A0179-03 | |
| 33 | 10-FEB-2023 | 05:02 | 23020933.D | 1 | 23A0179-04 | |
| 34 | 10-FEB-2023 | 05:20 | 23020934.D | 1 | 23A0179-05 | |
| 35 | 10-FEB-2023 | 05:38 | 23020935.D | 1 | 23A0179-06 | |
| 36 | 10-FEB-2023 | 05:56 | 23020936.D | 1 | SEQ-PEM3 | |
| 37 | 10-FEB-2023 | 06:14 | 23020937.D | 1 | SEQ-CCV2 | |
| 38 | 10-FEB-2023 | 06:32 | 23020938.D | 1 | 23A0179-07 | |
| 39 | 10-FEB-2023 | 06:49 | 23020939.D | 1 | 23A0179-08 | |
| 40 | 10-FEB-2023 | 07:07 | 23020940.D | 1 | 23A0179-09 | |
| 41 | 10-FEB-2023 | 07:25 | 23020941.D | 1 | 23A0179-10 | |
| 42 | 10-FEB-2023 | 07:43 | 23020942.D | 1 | 23A0179-11 | |
| 43 | 10-FEB-2023 | 08:01 | 23020943.D | 1 | 23A0179-12 | |
| 44 | 10-FEB-2023 | 08:19 | 23020944.D | 1 | 23A0180-01 | |
| 45 | 10-FEB-2023 | 08:37 | 23020945.D | 1 | 23A0180-02 | |
| 46 | 10-FEB-2023 | 08:54 | 23020946.D | 1 | 23A0180-03 | |
| 47 | 10-FEB-2023 | 09:12 | 23020947.D | 1 | 23A0180-04 | |
| 48 | 10-FEB-2023 | 09:30 | 23020948.D | 1 | SEQ-PEM4 | |
| 49 | 10-FEB-2023 | 09:48 | 23020949.D | 1 | SEQ-CCV3 | |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20230209.b

ARI Job No.: RINS Method: PEST.m Instrument: ecd6.i Date: 09-FEB-2023

| Time | Filename | LabID | ClientId | DF | Manually Integrated Compounds |
|------|------------|--------------|----------|----|-------------------------------|
| 1930 | 23020901.D | RINSE | | 1 | NO MANUAL INTEGRATION |
| 1948 | 23020902.D | SEQ-PEM1 | | 1 | NO MANUAL INTEGRATION |
| 2006 | 23020903.D | SEQ-ICV1 | | 1 | NO MANUAL INTEGRATION |
| 2024 | 23020904.D | 23A0134-15 | | 1 | Hexachlorobenzene, |
| 2041 | 23020905.D | BLA0553-BLK1 | | 1 | NO MANUAL INTEGRATION |
| 2059 | 23020906.D | BLA0553-BS1 | | 1 | NO MANUAL INTEGRATION |
| 2117 | 23020907.D | BLA0553-BSD1 | | 1 | NO MANUAL INTEGRATION |
| 2135 | 23020908.D | BLA0553-MS1 | | 1 | NO MANUAL INTEGRATION |
| 2153 | 23020909.D | BLA0553-MSD1 | | 1 | NO MANUAL INTEGRATION |
| 2211 | 23020910.D | 23A0158-04 | | 1 | Hexachlorobenzene, |
| 2229 | 23020911.D | 23A0158-05 | | 1 | NO MANUAL INTEGRATION |
| 2247 | 23020912.D | 23A0158-06 | | 1 | NO MANUAL INTEGRATION |
| 2305 | 23020913.D | 23A0158-07 | | 1 | NO MANUAL INTEGRATION |
| 2323 | 23020914.D | 23A0158-08 | | 1 | NO MANUAL INTEGRATION |
| 2340 | 23020915.D | 23A0158-09 | | 1 | Hexachlorobenzene, |
| 2358 | 23020916.D | 23A0158-10 | | 1 | NO MANUAL INTEGRATION |
| 0016 | 23020917.D | 23A0158-11 | | 1 | NO MANUAL INTEGRATION |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20230209.b

| Time | Filename | LabID | ClientId | DF | Manually Integrated Compounds |
|------|------------|--------------|----------|----|-------------------------------|
| 0034 | 23020918.D | 23A0158-12 | 1 | | NO MANUAL INTEGRATION |
| 0052 | 23020919.D | SEQ-PEM2 | 1 | | NO MANUAL INTEGRATION |
| 0110 | 23020920.D | SEQ-CCV1 | 1 | | NO MANUAL INTEGRATION |
| 0128 | 23020921.D | 23A0158-13 | 1 | | NO MANUAL INTEGRATION |
| 0146 | 23020922.D | 23A0158-14 | 1 | | NO MANUAL INTEGRATION |
| 0204 | 23020923.D | 23A0158-15 | 1 | | Hexachlorobenzene, |
| 0221 | 23020924.D | 23A0158-16 | 1 | | NO MANUAL INTEGRATION |
| 0239 | 23020925.D | BLA0556-BLK1 | 1 | | NO MANUAL INTEGRATION |
| 0257 | 23020926.D | BLA0556-BS1 | 1 | | NO MANUAL INTEGRATION |
| 0315 | 23020927.D | BLA0556-BSD1 | 1 | | NO MANUAL INTEGRATION |
| 0333 | 23020928.D | BLA0556-MS1 | 1 | | NO MANUAL INTEGRATION |
| 0351 | 23020929.D | BLA0556-MSD1 | 1 | | NO MANUAL INTEGRATION |
| 0409 | 23020930.D | 23A0179-01 | 1 | | Hexachlorobenzene, |
| 0426 | 23020931.D | 23A0179-02 | 1 | | Hexachlorobenzene, |
| 0444 | 23020932.D | 23A0179-03 | 1 | | NO MANUAL INTEGRATION |
| 0502 | 23020933.D | 23A0179-04 | 1 | | NO MANUAL INTEGRATION |
| 0520 | 23020934.D | 23A0179-05 | 1 | | Hexachlorobenzene, |
| 0538 | 23020935.D | 23A0179-06 | 1 | | NO MANUAL INTEGRATION |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20230209.b

| Time | Filename | LabID | ClientId | DF | Manually Integrated Compounds |
|------|------------|------------|----------|----|-------------------------------|
| 0556 | 23020936.D | SEQ-PEM3 | 1 | NO | MANUAL INTEGRATION |
| 0614 | 23020937.D | SEQ-CCV2 | 1 | NO | MANUAL INTEGRATION |
| 0632 | 23020938.D | 23A0179-07 | 1 | NO | MANUAL INTEGRATION |
| 0649 | 23020939.D | 23A0179-08 | 1 | NO | MANUAL INTEGRATION |
| 0707 | 23020940.D | 23A0179-09 | 1 | NO | MANUAL INTEGRATION |
| 0725 | 23020941.D | 23A0179-10 | 1 | NO | MANUAL INTEGRATION |
| 0743 | 23020942.D | 23A0179-11 | 1 | NO | MANUAL INTEGRATION |
| 0801 | 23020943.D | 23A0179-12 | 1 | NO | MANUAL INTEGRATION |
| 0819 | 23020944.D | 23A0180-01 | 1 | NO | MANUAL INTEGRATION |
| 0837 | 23020945.D | 23A0180-02 | 1 | NO | MANUAL INTEGRATION |
| 0854 | 23020946.D | 23A0180-03 | 1 | NO | MANUAL INTEGRATION |
| 0912 | 23020947.D | 23A0180-04 | 1 | NO | MANUAL INTEGRATION |
| 0930 | 23020948.D | SEQ-PEM4 | 1 | NO | MANUAL INTEGRATION |
| 0948 | 23020949.D | SEQ-CCV3 | 1 | NO | MANUAL INTEGRATION |

Security Status Report

Date: 11-Feb-2023 11:35

| | | |
|------------|-------------|----------|
| 23020901.D | Data Locked | yev, 11- |
| 23020902.D | Data Locked | yev, 11- |
| 23020903.D | Data Locked | yev, 11- |
| 23020904.D | Data Locked | yev, 11- |
| 23020905.D | Data Locked | yev, 11- |
| 23020906.D | Data Locked | yev, 11- |
| 23020907.D | Data Locked | yev, 11- |
| 23020908.D | Data Locked | yev, 11- |
| 23020909.D | Data Locked | yev, 11- |
| 23020910.D | Data Locked | yev, 11- |
| 23020911.D | Data Locked | yev, 11- |
| 23020912.D | Data Locked | yev, 11- |
| 23020913.D | Data Locked | yev, 11- |
| 23020914.D | Data Locked | yev, 11- |
| 23020915.D | Data Locked | yev, 11- |
| 23020916.D | Data Locked | yev, 11- |
| 23020917.D | Data Locked | yev, 11- |
| 23020918.D | Data Locked | yev, 11- |
| 23020919.D | Data Locked | yev, 11- |
| 23020920.D | Data Locked | yev, 11- |
| 23020921.D | Data Locked | yev, 11- |
| 23020922.D | Data Locked | yev, 11- |
| 23020923.D | Data Locked | yev, 11- |
| 23020924.D | Data Locked | yev, 11- |
| 23020925.D | Data Locked | yev, 11- |
| 23020926.D | Data Locked | yev, 11- |
| 23020927.D | Data Locked | yev, 11- |
| 23020928.D | Data Locked | yev, 11- |
| 23020929.D | Data Locked | yev, 11- |
| 23020930.D | Data Locked | yev, 11- |
| 23020931.D | Data Locked | yev, 11- |
| 23020932.D | Data Locked | yev, 11- |
| 23020933.D | Data Locked | yev, 11- |
| 23020934.D | Data Locked | yev, 11- |
| 23020935.D | Data Locked | yev, 11- |
| 23020936.D | Data Locked | yev, 11- |
| 23020937.D | Data Locked | yev, 11- |
| 23020938.D | Data Locked | yev, 11- |
| 23020939.D | Data Locked | yev, 11- |
| 23020940.D | Data Locked | yev, 11- |
| 23020941.D | Data Locked | yev, 11- |
| 23020942.D | Data Locked | yev, 11- |
| 23020943.D | Data Locked | yev, 11- |
| 23020944.D | Data Locked | yev, 11- |
| 23020945.D | Data Locked | yev, 11- |
| 23020946.D | Data Locked | yev, 11- |
| 23020947.D | Data Locked | yev, 11- |
| 23020948.D | Data Locked | yev, 11- |
| 23020949.D | Data Locked | yev, 11- |



SURROGATE RECOVERY AND RT SUMMARY
EPA 8081B

| | | | |
|--------------|----------------------------------|-------------------|------------------------|
| Laboratory: | <u>Analytical Resources, LLC</u> | SDG/WO: | <u>23A0180</u> |
| Client: | <u>Anchor OEA, LLC</u> | Project: | <u>AOC5 MR Phase 1</u> |
| Sequence: | <u>SKL0233</u> | Instrument: | <u>ECD6</u> |
| Calibration: | <u>FL00041</u> | Calibration Date: | <u>12/15/2022</u> |

| Surrogate Compound | Spike Level ng/mL | % Recovery | Recovery Limits | RT | Calibration Mean RT | RT Diff | RT Diff Limit | Q |
|-----------------------------|-------------------|-------------------------|-----------------|--------|--------------------------|---------|---------------|---|
| SKL0233-PEM1 (Water) | | Lab File ID: 22121404.D | | | Analyzed: 12/14/22 20:20 | | | |
| Decachlorobiphenyl | 160.00 | 83.0 | 0 - 200 | 9.355 | 9.354666 | 0.0003 | +/-0.1 | |
| Decachlorobiphenyl [2C] | 160.00 | 83.5 | 0 - 200 | 10.466 | 10.4655 | 0.0005 | +/-0.1 | |
| Tetrachlorometaxylene | 160.00 | 78.1 | 0 - 200 | 3.828 | 3.827833 | 0.0002 | +/-0.1 | |
| Tetrachlorometaxylene [2C] | 160.00 | 83.5 | 0 - 200 | 4.22 | 4.219666 | 0.0003 | +/-0.1 | |



SURROGATE RECOVERY AND RT SUMMARY
EPA 8081B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLB0156
Calibration: FL00041

SDG/WO: 23A0180
Project: AOC5 MR Phase 1
Instrument: ECD6
Calibration Date: 12/14/2022

| Surrogate Compound | Spike Level ng/mL | % Recovery | Recovery Limits | RT | Calibration Mean RT | RT Diff | RT Diff Limit | Q |
|--|-------------------|------------|-----------------|--------|---------------------|---------|---------------|---|
| SLB0156-ICV1 (Solid) Lab File ID: 23020903.D Analyzed: 02/09/23 20:06 | | | | | | | | |
| Decachlorobiphenyl | 40.000 | 102 | 80 - 120 | 9.307 | 9.354666 | -0.0477 | +/-0.1 | |
| Decachlorobiphenyl [2C] | 40.000 | 99.0 | 80 - 120 | 10.404 | 10.4655 | -0.0615 | +/-0.1 | |
| Tetrachlorometaxylene | 40.000 | 90.9 | 80 - 120 | 3.791 | 3.827833 | -0.0368 | +/-0.1 | |
| Tetrachlorometaxylene [2C] | 40.000 | 100 | 80 - 120 | 4.182 | 4.219666 | -0.0377 | +/-0.1 | |
| SLB0156-CCV1 (Solid) Lab File ID: 23020920.D Analyzed: 02/10/23 01:10 | | | | | | | | |
| Decachlorobiphenyl | 40.000 | 101 | 80 - 120 | 9.307 | 9.354666 | -0.0477 | +/-0.1 | |
| Decachlorobiphenyl [2C] | 40.000 | 103 | 80 - 120 | 10.403 | 10.4655 | -0.0625 | +/-0.1 | |
| Tetrachlorometaxylene | 40.000 | 99.8 | 80 - 120 | 3.793 | 3.827833 | -0.0348 | +/-0.1 | |
| Tetrachlorometaxylene [2C] | 40.000 | 95.7 | 80 - 120 | 4.183 | 4.219666 | -0.0367 | +/-0.1 | |
| BLA0556-BLK1 (Solid) Lab File ID: 23020925.D Analyzed: 02/10/23 02:39 | | | | | | | | |
| Decachlorobiphenyl | 8.0000 | 132 | 30 - 160 | 9.305 | 9.354666 | -0.0497 | +/-0.1 | |
| Decachlorobiphenyl [2C] | 8.0000 | 140 | 30 - 160 | 10.402 | 10.4655 | -0.0635 | +/-0.1 | |
| Tetrachlorometaxylene | 8.0000 | 107 | 30 - 160 | 3.791 | 3.827833 | -0.0368 | +/-0.1 | |
| Tetrachlorometaxylene [2C] | 8.0000 | 98.1 | 30 - 160 | 4.182 | 4.219666 | -0.0377 | +/-0.1 | |
| BLA0556-BS1 (Solid) Lab File ID: 23020926.D Analyzed: 02/10/23 02:57 | | | | | | | | |
| Decachlorobiphenyl | 8.0000 | 87.9 | 30 - 160 | 9.305 | 9.354666 | -0.0497 | +/-0.1 | |
| Decachlorobiphenyl [2C] | 8.0000 | 89.6 | 30 - 160 | 10.403 | 10.4655 | -0.0625 | +/-0.1 | |
| Tetrachlorometaxylene | 8.0000 | 71.1 | 30 - 160 | 3.791 | 3.827833 | -0.0368 | +/-0.1 | |
| Tetrachlorometaxylene [2C] | 8.0000 | 66.5 | 30 - 160 | 4.182 | 4.219666 | -0.0377 | +/-0.1 | |
| BLA0556-BSD1 (Solid) Lab File ID: 23020927.D Analyzed: 02/10/23 03:15 | | | | | | | | |
| Decachlorobiphenyl | 8.0000 | 78.2 | 30 - 160 | 9.305 | 9.354666 | -0.0497 | +/-0.1 | |
| Decachlorobiphenyl [2C] | 8.0000 | 88.7 | 30 - 160 | 10.402 | 10.4655 | -0.0635 | +/-0.1 | |
| Tetrachlorometaxylene | 8.0000 | 73.0 | 30 - 160 | 3.791 | 3.827833 | -0.0368 | +/-0.1 | |
| Tetrachlorometaxylene [2C] | 8.0000 | 69.1 | 30 - 160 | 4.182 | 4.219666 | -0.0377 | +/-0.1 | |
| SLB0156-CCV2 (Solid) Lab File ID: 23020937.D Analyzed: 02/10/23 06:14 | | | | | | | | |
| Decachlorobiphenyl | 40.000 | 100 | 80 - 120 | 9.306 | 9.354666 | -0.0487 | +/-0.1 | |
| Decachlorobiphenyl [2C] | 40.000 | 98.2 | 80 - 120 | 10.403 | 10.4655 | -0.0625 | +/-0.1 | |
| Tetrachlorometaxylene | 40.000 | 95.2 | 80 - 120 | 3.79 | 3.827833 | -0.0378 | +/-0.1 | |
| Tetrachlorometaxylene [2C] | 40.000 | 105 | 80 - 120 | 4.181 | 4.219666 | -0.0387 | +/-0.1 | |



SURROGATE RECOVERY AND RT SUMMARY
EPA 8081B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLB0156
Calibration: FL00041

SDG/WO: 23A0180
Project: AOC5 MR Phase 1
Instrument: ECD6
Calibration Date: 12/15/2022

| Surrogate Compound | Spike Level ug/kg dry | % Recovery | Recovery Limits | RT | Calibration Mean RT | RT Diff | RT Diff Limit | Q |
|-----------------------------|-----------------------|------------|-------------------------|--------|--------------------------|---------|---------------|---|
| 23A0180-01 (Solid) | | | Lab File ID: 23020944.D | | Analyzed: 02/10/23 08:19 | | | |
| Decachlorobiphenyl | 7.9084 | 96.9 | 30 - 160 | 9.308 | 9.354666 | -0.0467 | +/-0.1 | |
| Decachlorobiphenyl [2C] | 7.9084 | 101 | 30 - 160 | 10.404 | 10.4655 | -0.0615 | +/-0.1 | |
| Tetrachlorometaxylene | 7.9084 | 65.0 | 30 - 160 | 3.79 | 3.827833 | -0.0378 | +/-0.1 | |
| Tetrachlorometaxylene [2C] | 7.9084 | 66.5 | 30 - 160 | 4.181 | 4.219666 | -0.0387 | +/-0.1 | |
| 23A0180-02 (Solid) | | | Lab File ID: 23020945.D | | Analyzed: 02/10/23 08:37 | | | |
| Decachlorobiphenyl | 7.9295 | 94.2 | 30 - 160 | 9.308 | 9.354666 | -0.0467 | +/-0.1 | |
| Decachlorobiphenyl [2C] | 7.9295 | 97.5 | 30 - 160 | 10.404 | 10.4655 | -0.0615 | +/-0.1 | |
| Tetrachlorometaxylene | 7.9295 | 66.1 | 30 - 160 | 3.79 | 3.827833 | -0.0378 | +/-0.1 | |
| Tetrachlorometaxylene [2C] | 7.9295 | 67.4 | 30 - 160 | 4.181 | 4.219666 | -0.0387 | +/-0.1 | |
| 23A0180-03 (Solid) | | | Lab File ID: 23020946.D | | Analyzed: 02/10/23 08:54 | | | |
| Decachlorobiphenyl | 7.9571 | 92.9 | 30 - 160 | 9.307 | 9.354666 | -0.0477 | +/-0.1 | |
| Decachlorobiphenyl [2C] | 7.9571 | 97.7 | 30 - 160 | 10.403 | 10.4655 | -0.0625 | +/-0.1 | |
| Tetrachlorometaxylene | 7.9571 | 69.0 | 30 - 160 | 3.79 | 3.827833 | -0.0378 | +/-0.1 | |
| Tetrachlorometaxylene [2C] | 7.9571 | 68.6 | 30 - 160 | 4.181 | 4.219666 | -0.0387 | +/-0.1 | |
| 23A0180-04 (Solid) | | | Lab File ID: 23020947.D | | Analyzed: 02/10/23 09:12 | | | |
| Decachlorobiphenyl | 7.6602 | 88.4 | 30 - 160 | 9.307 | 9.354666 | -0.0477 | +/-0.1 | |
| Decachlorobiphenyl [2C] | 7.6602 | 92.8 | 30 - 160 | 10.403 | 10.4655 | -0.0625 | +/-0.1 | |
| Tetrachlorometaxylene | 7.6602 | 65.5 | 30 - 160 | 3.79 | 3.827833 | -0.0378 | +/-0.1 | |
| Tetrachlorometaxylene [2C] | 7.6602 | 65.8 | 30 - 160 | 4.181 | 4.219666 | -0.0387 | +/-0.1 | |
| SLB0156-CCV3 (Solid) | | | Lab File ID: 23020949.D | | Analyzed: 02/10/23 09:48 | | | |
| Decachlorobiphenyl | 40.000 | 101 | 80 - 120 | 9.307 | 9.354666 | -0.0477 | +/-0.1 | |
| Decachlorobiphenyl [2C] | 40.000 | 97.7 | 80 - 120 | 10.403 | 10.4655 | -0.0625 | +/-0.1 | |
| Tetrachlorometaxylene | 40.000 | 95.3 | 80 - 120 | 3.791 | 3.827833 | -0.0368 | +/-0.1 | |
| Tetrachlorometaxylene [2C] | 40.000 | 105 | 80 - 120 | 4.182 | 4.219666 | -0.0377 | +/-0.1 | |



INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8081B

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Sequence: SKL0233

Instrument: ECD6

Calibration: FL00041

| Internal Standard | Response | RT | Reference Response | Reference RT | Area % | Area % Limits | RT Diff | RT Diff Limit | Q |
|--|----------|---------|-------------------------|--------------|--------|--------------------------|---------|---------------|---|
| Performance Mix (SKL0233-PEM1) | | (Water) | Lab File ID: 22121404.D | | | Analyzed: 12/14/22 20:20 | | | |
| 1-Bromo-2-Nitrobenzene | 683485 | 3.15 | 672426 | 3.15 | 102 | 50 - 200 | 0.000 | +/-0.50 | |
| Hexabromobiphenyl | 619012 | 9.503 | 609723 | 9.504 | 102 | 50 - 200 | -0.001 | +/-0.50 | |
| 1-Bromo-2-Nitrobenzene [2C] | 1005375 | 3.35 | 1006482 | 3.35 | 100 | 50 - 200 | 0.000 | +/-0.50 | |
| Hexabromobiphenyl [2C] | 772586 | 11.054 | 769764 | 11.053 | 100 | 50 - 200 | 0.001 | +/-0.50 | |



INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8081B

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Sequence: SLB0156

Instrument: ECD6

Calibration: FL00041

| Internal Standard | Response | RT | Reference Response | Reference RT | Area % | Area % Limits | RT Diff | RT Diff Limit | Q |
|---|----------|---------|-------------------------|--------------|--------|--------------------------|---------|---------------|---|
| Initial Cal Check (SLB0156-ICV1) | | (Solid) | Lab File ID: 23020903.D | | | Analyzed: 02/09/23 20:06 | | | |
| 1-Bromo-2-Nitrobenzene | 705237 | 3.119 | 705237 | 3.119 | 100 | 50 - 200 | 0.000 | +/-0.50 | |
| Hexabromobiphenyl | 627685 | 9.457 | 627685 | 9.457 | 100 | 50 - 200 | 0.000 | +/-0.50 | |
| 1-Bromo-2-Nitrobenzene [2C] | 1101002 | 3.319 | 1101002 | 3.319 | 100 | 50 - 200 | 0.000 | +/-0.50 | |
| Hexabromobiphenyl [2C] | 776135 | 10.984 | 776135 | 10.984 | 100 | 50 - 200 | 0.000 | +/-0.50 | |
| Blank (BLA0556-BLK1) | | (Solid) | Lab File ID: 23020925.D | | | Analyzed: 02/10/23 02:39 | | | |
| 1-Bromo-2-Nitrobenzene | 802874 | 3.118 | 705237 | 3.119 | 114 | 50 - 200 | -0.001 | +/-0.50 | |
| Hexabromobiphenyl | 614530 | 9.454 | 627685 | 9.457 | 98 | 50 - 200 | -0.003 | +/-0.50 | |
| 1-Bromo-2-Nitrobenzene [2C] | 1252661 | 3.319 | 1101002 | 3.319 | 114 | 50 - 200 | 0.000 | +/-0.50 | |
| Hexabromobiphenyl [2C] | 740787 | 10.982 | 776135 | 10.984 | 95 | 50 - 200 | -0.002 | +/-0.50 | |
| LCS (BLA0556-BS1) | | (Solid) | Lab File ID: 23020926.D | | | Analyzed: 02/10/23 02:57 | | | |
| 1-Bromo-2-Nitrobenzene | 842752 | 3.119 | 705237 | 3.119 | 119 | 50 - 200 | 0.000 | +/-0.50 | |
| Hexabromobiphenyl | 658929 | 9.454 | 627685 | 9.457 | 105 | 50 - 200 | -0.003 | +/-0.50 | |
| 1-Bromo-2-Nitrobenzene [2C] | 1368797 | 3.319 | 1101002 | 3.319 | 124 | 50 - 200 | 0.000 | +/-0.50 | |
| Hexabromobiphenyl [2C] | 784600 | 10.982 | 776135 | 10.984 | 101 | 50 - 200 | -0.002 | +/-0.50 | |
| LCS Dup (BLA0556-BSD1) | | (Solid) | Lab File ID: 23020927.D | | | Analyzed: 02/10/23 03:15 | | | |
| 1-Bromo-2-Nitrobenzene | 883445 | 3.119 | 705237 | 3.119 | 125 | 50 - 200 | 0.000 | +/-0.50 | |
| Hexabromobiphenyl | 727664 | 9.453 | 627685 | 9.457 | 116 | 50 - 200 | -0.004 | +/-0.50 | |
| 1-Bromo-2-Nitrobenzene [2C] | 1441193 | 3.319 | 1101002 | 3.319 | 131 | 50 - 200 | 0.000 | +/-0.50 | |
| Hexabromobiphenyl [2C] | 829281 | 10.981 | 776135 | 10.984 | 107 | 50 - 200 | -0.003 | +/-0.50 | |
| LDW23-SC1164 (23A0180-01) | | (Solid) | Lab File ID: 23020944.D | | | Analyzed: 02/10/23 08:19 | | | |
| 1-Bromo-2-Nitrobenzene | 937435 | 3.118 | 705237 | 3.119 | 133 | 50 - 200 | -0.001 | +/-0.50 | |
| Hexabromobiphenyl | 729854 | 9.459 | 627685 | 9.457 | 116 | 50 - 200 | 0.002 | +/-0.50 | |
| 1-Bromo-2-Nitrobenzene [2C] | 1360362 | 3.318 | 1101002 | 3.319 | 124 | 50 - 200 | -0.001 | +/-0.50 | |
| Hexabromobiphenyl [2C] | 892940 | 10.984 | 776135 | 10.984 | 115 | 50 - 200 | 0.000 | +/-0.50 | |
| LDW23-SC1164-FD (23A0180-02) | | (Solid) | Lab File ID: 23020945.D | | | Analyzed: 02/10/23 08:37 | | | |
| 1-Bromo-2-Nitrobenzene | 936224 | 3.118 | 705237 | 3.119 | 133 | 50 - 200 | -0.001 | +/-0.50 | |
| Hexabromobiphenyl | 716629 | 9.46 | 627685 | 9.457 | 114 | 50 - 200 | 0.003 | +/-0.50 | |
| 1-Bromo-2-Nitrobenzene [2C] | 1345541 | 3.319 | 1101002 | 3.319 | 122 | 50 - 200 | 0.000 | +/-0.50 | |
| Hexabromobiphenyl [2C] | 893908 | 10.985 | 776135 | 10.984 | 115 | 50 - 200 | 0.001 | +/-0.50 | |



INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8081B

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor OEA, LLC

Project: AOC5 MR Phase 1

Sequence: SLB0156

Instrument: ECD6

Calibration: FL00041

| Internal Standard | Response | RT | Reference Response | Reference RT | Area % | Area % Limits | RT Diff | RT Diff Limit | Q |
|----------------------------------|----------|---------|-------------------------|--------------|--------------------------|---------------|---------|---------------|---|
| LDW23-SC1158 (23A0180-03) | | (Solid) | Lab File ID: 23020946.D | | Analyzed: 02/10/23 08:54 | | | | |
| 1-Bromo-2-Nitrobenzene | 916107 | 3.118 | 705237 | 3.119 | 130 | 50 - 200 | -0.001 | +/-0.50 | |
| Hexabromobiphenyl | 699386 | 9.457 | 627685 | 9.457 | 111 | 50 - 200 | 0.000 | +/-0.50 | |
| 1-Bromo-2-Nitrobenzene [2C] | 1326157 | 3.319 | 1101002 | 3.319 | 120 | 50 - 200 | 0.000 | +/-0.50 | |
| Hexabromobiphenyl [2C] | 891624 | 10.983 | 776135 | 10.984 | 115 | 50 - 200 | -0.001 | +/-0.50 | |
| LDW23-SC1151 (23A0180-04) | | (Solid) | Lab File ID: 23020947.D | | Analyzed: 02/10/23 09:12 | | | | |
| 1-Bromo-2-Nitrobenzene | 926131 | 3.118 | 705237 | 3.119 | 131 | 50 - 200 | -0.001 | +/-0.50 | |
| Hexabromobiphenyl | 729223 | 9.457 | 627685 | 9.457 | 116 | 50 - 200 | 0.000 | +/-0.50 | |
| 1-Bromo-2-Nitrobenzene [2C] | 1356505 | 3.319 | 1101002 | 3.319 | 123 | 50 - 200 | 0.000 | +/-0.50 | |
| Hexabromobiphenyl [2C] | 976899 | 10.982 | 776135 | 10.984 | 126 | 50 - 200 | -0.002 | +/-0.50 | |



HOLDING TIME SUMMARY

Analysis: EPA 8081B

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

| Sample Name | Date Collected | Date Received | Date Prepared | Days to Prep | Max Days to Prep | Date Analyzed | Days to Analysis | Max Days to Analysis | Q |
|-------------------------------|-------------------|-------------------|-------------------|--------------|------------------|-------------------|------------------|----------------------|---|
| LDW23-SC1164 23A0180-01 | 01/10/23 08:05 | 01/10/23 17:10 | 01/26/23 12:35 | 16 | 365 | 02/10/23 08:19 | 15 | 40 | |
| LDW23-SC1164-FD 23A0180-02 | 01/10/23 08:05 | 01/10/23 17:10 | 01/26/23 12:35 | 16 | 365 | 02/10/23 08:37 | 15 | 40 | |
| LDW23-SC1158 23A0180-03 | 01/10/23 08:33 | 01/10/23 17:10 | 01/26/23 12:35 | 16 | 365 | 02/10/23 08:54 | 15 | 40 | |
| LDW23-SC1151 23A0180-04 | 01/10/23 09:07 | 01/10/23 17:10 | 01/26/23 12:35 | 16 | 365 | 02/10/23 09:12 | 15 | 40 | |

* Indicates hold time exceedance.



**METHOD DETECTION
AND REPORTING LIMITS**

EPA 8081B

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Matrix: Solid

Instrument: ECD6

| Analyte | MDL | RL | Units |
|------------------------|------------|-----------|--------------|
| Hexachlorobenzene | 0.15 | 0.50 | ug/kg |
| Hexachlorobenzene [2C] | 0.15 | 0.50 | ug/kg |

CERTIFICATE OF ANALYSIS

Catalog No: S-279N
Description: Tetrachloro-m-xylene
Lot: 0052481B-1
Solvent: N/A
Hazards: Refer to SDS for complete safety information

Date Certified: Jul 28, 2005
Expiration: Jul 28, 2015
Sample Size: 100 mg
Components: 1
Storage Condition: Ambient (>5 °C)



Signal Word: Warning

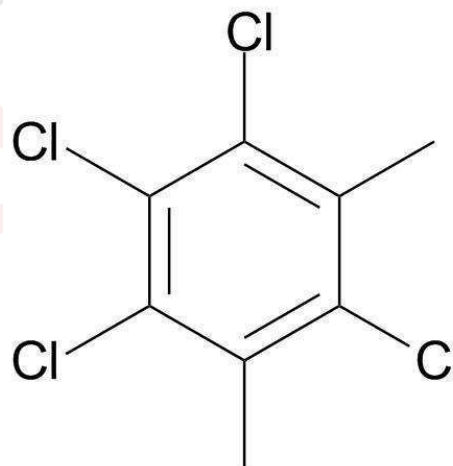
Certified Reference Material



| Component | CAS # | Purity % (GC/FID) | Prepared Concentration | Certified Analyte Concentration ¹ |
|-------------------------|----------|----------------------|---------------------------|---|
| Tetrachloro-meta-xylene | 877-09-8 | 96.0 | N/A | N/A |

Identification:

Molecular formula: C₈H₆Cl₄
Molecular weight: 243.94



C000147

tetrachlorometaxylene

Expires 1/15/2020

Prepared By Joshua Rains 1/15/2014

This Certified Reference Material was verified in accordance with ISO/IEC 17025

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

¹ The Uncertainty calculated for this product is ±2.4%. These values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

Metrological traceability is established through in-house validated methods.

Purity, if stated, is equal to 100% minus found impurity components. Impurity components have not been identified.

The information on this certificate may not be reproduced without the express permission of the manufacturer. See reverse side for additional information

Hazard Information: Please refer to the SDS for information regarding the hazards associated with using this material.

This product was prepared according to in-house procedures and is guaranteed to be homogeneous.

Certified By:

Larry Decker, Organic QC Manager



AccuStandard

125 Market Street
New Haven, CT 06513
(203) 786-5290

CERTIFICATE OF PRODUCT DATA

PRODUCT: C-209N

EXPIRATION: Jul 28, 2015

DESCRIPTION: 2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl

LOT #: 990521LB-AC

SOLVENT: N/A

This product is guaranteed accurate to $\pm 0.5\%$ of the Certified Analyte concentration through the Expiration Date on the Label.

| Component | CAS # | Purity % (GC/MS) | Prepared Concentration ¹ | Certified Analyte Concentration ² |
|---|-----------|---------------------|-------------------------------------|--|
| 2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl | 2051-24-3 | 100 | N/A | N/A |

2;

C000148

decachlorobiphenyl
Expires 1/15/2020

Prepared By Joshua Rains 1/15/2014

** I 1768 A*

Certified by: *R. Cooper*

Please note: AccuStandard follows the U.S. conventions in reporting numerical values, on both certificates and labels.

A comma (,) is used to separate units of one-thousand or greater.
A period (.) is used as a decimal place marker.

1. All weights are traceable through National Institute of Standards & Technology, Test No. 822/254480
 2. Certified Analyte Concentration = Purity x Prepared Concentration. The Uncertainty calculated for this product is $\pm 0.5\%$ which is the Combined Uncertainty $U_c(y)$. It represents an estimated standard deviation equal to the positive square root of the total variance of the uncertainty of components. The Expanded Uncertainty is U which is $U_c(y) * K$ where K is the coverage factor at the 95% confidence level ($K=2$).
 3. A product with a suffix (-1A, -2B, etc.) on its lot# has had its expiration date extended and is identical to the same lot# without the suffix.

This product was manufactured in accordance to quality system requirements of ISO 9001:2000 and ISO 17025

** Recertified ~ 4-6-09 (S)*



Analytical Standard Record
Standard ID: C000148

Printed: 4/23/2015 11:54:44AM

| | | | |
|---------------------|--------------------|--------------|--------------------------|
| Description: | decachlorobiphenyl | Expires: | 15-Jan-2020 |
| Standard Type: | Other | Prepared: | 15-Jan-2014 |
| Solvent: | na/a | Prepared By: | Joshua Rains |
| Final Volume (mls): | 1 | Department: | Organics |
| Vials: | 1 | Last Edit: | 27-Feb-2015 13:03 by JGR |
| Vendor: | Accustandard | Lot #: | 9905211b-ac |
| Vendor Catalog #: | | | |

Comments

see i1768a
SOM calibrations added 06/12/14 sdrd

| Analyte | CAS Number | Concentration | Units |
|-------------------------|------------|---------------|-------|
| Decachlorobiphenyl [2C] | 2051-24-3 | 1000000 | ug/mL |
| Decachlorobiphenyl | 2051-24-3 | 1000000 | ug/mL |
| DCB 1660 [2C] | 2051-24-3 | 1000000 | ug/mL |
| DCB 1660 | 2051-24-3 | 1000000 | ug/mL |
| DCB [2C] | 2051-24-3 | 1000000 | ug/mL |
| DCB (A) [2C] | 2051-24-3 | 1000000 | ug/mL |
| DCB (A) | 2051-24-3 | 1000000 | ug/mL |
| DCB | 2051-24-3 | 1000000 | ug/mL |

Reviewed By

Date

CERTIFICATE OF ANALYSIS

Catalog No: P-066S
Description: Mirex
Lot: 219051741-01
Solvent: Methanol
Hazards: Refer to SDS for complete safety information

Date Certified: Jun 5, 2020
Expiration: Jun 5, 2024
Sample Size: 1 mL
Components: 1
Storage Condition: Ambient (>5 °C)



Certified Reference Material



| Component | CAS # | Purity % (GC/MS) | Prepared Concentration ² (µg/mL) | Certified Analyte Concentration ¹ (µg/mL) |
|-----------|-----------|---------------------|---|--|
| Mirex | 2385-85-5 | 98.2 | 100.2 | 98.4 |



1007970

Mirex 2d source
Solvent / Lot: MeOH
Prep: 9/7/2020 by JR
Exp: 6/5/2024
Location:

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

² All weights are traceable through NIST, Test No. 684/289871-17

¹ Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is $\pm 2.4\%$. This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

The information on this certificate may not be reproduced without the express permission of the manufacturer. See reverse side for additional information

Certified By: 

Larry Decker, Organic QC Manager

CERTIFICATE OF ANALYSIS

Catalog No: P-026S

Description: o,p'-DDE

Lot: 218021093-01

Solvent: Methanol

Hazards: Refer to SDS for complete safety information

Date Certified: Feb 10, 2020

Expiration: Feb 10, 2023

Sample Size: 1 mL

Components: 1

Storage Condition: Ambient (>5 °C)



Signal Word: Danger

Certified Reference Material



| Component | CAS # | Purity % | Prepared | Certified Analyte |
|-----------|-----------|----------|---------------------------------------|---------------------------------------|
| | | (GC/MS) | Concentration ² (µg/mL) | Concentration ¹ (µg/mL) |
| o,p'-DDE | 3424-82-6 | 99.9 | 100.4 | 100.3 |

I7971

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

² All weights are traceable through NIST, Test No. 822-275872-11

¹ Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is ±2.4%. This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

The information on this certificate may not be reproduced without the express permission of the manufacturer. See reverse side for additional information

Certified By:

Larry Decker, Organic QC Manager

CERTIFICATE OF ANALYSIS

Catalog No: P-184S
Description: trans-Nonachlor
Lot: 218011470
Solvent: Methanol
Hazards: Refer to SDS for complete safety information

Date Certified: Jan 30, 2018
Expiration: Jan 30, 2028
Sample Size: 1 mL
Components: 1
Storage Condition: Ambient (>5 °C)



Signal Word: Danger

Certified Reference Material



| Component | CAS # | Purity % (GC/MS) | Prepared Concentration ² (µg/mL) | Certified Analyte Concentration ¹ (µg/mL) |
|-----------------|------------|---------------------|---|--|
| trans-Nonachlor | 39765-80-5 | 99.0 | 100.2 | 99.2 |

I 7974

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

² All weights are traceable through NIST, Test No. 822-275872-11

¹ Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is ±2.4%. This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

The information on this certificate may not be reproduced without the express permission of the manufacturer. See reverse side for additional information

Certified By: 

Larry Decker, Organic QC Manager



CERTIFICATE OF ANALYSIS

Catalog No: P-024S
Description: o,p'-DDD
Lot: 220051307
Solvent: Methanol
Hazards: Refer to SDS for complete safety information

Date Certified: May 27, 2020
Expiration: Jun 27, 2022
Sample Size: 1 mL
Components: 1
Storage Condition: Ambient (>5 °C)



Signal Word: Danger

Certified Reference Material



| Component | CAS # | Purity % (GC/MS) | Prepared Concentration ² (µg/mL) | Certified Analyte Concentration ¹ (µg/mL) |
|-----------|---------|---------------------|--|---|
| o,p'-DDD | 53-19-0 | 100.0 | 100.2 | 100.2 |



I010773

o,p'-DDD
Solvent / Lot: methanol
Prep: 11/20/2020 by VS
Exp: 6/27/2022
Location:

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

² All weights are traceable through NIST, Test No. 684/289871-17

¹ Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is $\pm 2.4\%$. This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

The information on this certificate may not be reproduced without the express permission of the manufacturer. See reverse side for additional information

Certified By: 
Larry Decker, Organic QC Manager

For use in routine laboratory analysis.

1. Quality Standards:

ISO 17034 – General Requirements for the Competence of Reference Material Producers ANAB Certificate Number AR-1463

ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories ANAB Certificate Number AT-1339

ISO 9001:2015 – Quality Management System – Requirements
Eagle Registrations Certificate Number 3774

2 Intended Use: The product covered by this certificate is designed for calibration or for use in quality control procedures for the specified chemical compounds listed on the reverse side. This product can be used for quantification and/or identification. This product can also be used as a reference material to validate analytical procedures, subject to the conditions under Section 7

3 Manufacturing: All balances are calibrated daily using an in-house procedure with weights that are compared annually to master weights and traceable to NIST. The balances are also calibrated annually by an ISO/IEC 17025 accredited calibration laboratory. Please refer to the NIST test number listed on the front of this certificate. Class A glassware is used in the manufacture and quality control of all standards. Good Laboratory Practices have been used throughout the preparation of this

4 Homogeneity: This product is sufficiently homogeneous and any sample size would be within the uncertainty budget.

5 Stability: The manufacturer guarantees the stability of this solution through the expiration date stated on the label, when handled and stored according to the conditions stated on the label

6 Uncertainty: The uncertainty values as stated on the face of this certificate have been determined using the EURACHEM/CITAC Guide. We report a combined expanded uncertainty equal to the positive square root of the total variance of the uncertainty of the components using the following formula: $u_a = \sqrt{(u(V))^2 + (u(m))^2 + (u(IV))^2 + (u(RO))^2}$ This formula represents uncertainty components from the mass, volume, short-term stability, long-term stability and homogeneity factors associated with the production of this product. The expanded uncertainty, assumes a normal distribution and a coverage factor of k=2 is chosen using approximately a 95% confidence level.

7 Legal Notice and Limit of Liability: This product is for routine laboratory analysis and research purposes only. The company's liability will be limited to replacement of product or refund of purchase price. Notice of claims must be made within thirty (30) days from date of delivery.

CERTIFICATE OF ANALYSIS

Catalog No: P-331S
Description: Oxychlordane Isomer
Lot: 218101131
Solvent: Methanol
Hazards: Refer to SDS for complete safety information

Date Certified: Oct 8, 2018
Expiration: Nov 8, 2020
Sample Size: 1 mL
Components: 1
Storage Condition: Ambient (>5 °C)



Certified Reference Material



| Component | CAS # | Purity % (GC/MS) | Prepared Concentration ² (µg/mL) | Certified Analyte Concentration ¹ (µg/mL) |
|---------------------|------------|---------------------|--|---|
| Oxychlordane Isomer | 27304-13-8 | 97.7 | 102.4* | 100.0 |



I010795

Oxychlordane isomer
Solvent / Lot: methanol
Prep: 11/20/2020 by VS
Exp: 6/20/2022
Location:

* Weight compensated to 100% purity.

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.


² All weights are traceable through NIST, Test No. 684/289871-17

¹ Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is $\pm 2.4\%$. This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

The information on this certificate may not be reproduced without the express permission of the manufacturer. See reverse side for additional information

Certified By: 
Larry Decker, Organic QC Manager

1. Quality Standards:

ISO 17034 – General Requirements for the Competence of Reference Material Producers ANAB Certificate Number AR-1463

ISO/IEC 17025 – General Requirements for the Competence of Testing And Calibration Laboratories ANAB Certificate Number AT-1339

ISO 9001:2015 – Quality Management System – Requirements Eagle Registrations Certificate Number 3774

2 Intended Use: The product covered by this certificate is designed for calibration or for use in quality control procedures for the specified chemical compounds listed on the reverse side. This product can be used for quantification and/or identification. This product can also be used as a reference material to validate analytical procedures, subject to the conditions under Section 7

3 Manufacturing: All balances are calibrated daily using an in-house procedure with weights that are compared annually to master weights and traceable to NIST. The balances are also calibrated annually by an ISO/IEC 17025 accredited calibration laboratory. Please refer to the NIST test number listed on the front of this certificate. Class A glassware is used in the manufacture and quality control of all standards and calibrated using an in-house procedure. Good Laboratory Practices have been used throughout the preparation of this CRM.

4 Homogeneity: This product is sufficiently homogeneous and any sample size would be within the uncertainty budget.

5 Stability: The manufacturer guarantees the stability of this solution through the expiration date stated on the label, when handled and stored according to the conditions stated on the label

6 Uncertainty: The uncertainty values as stated on the face of this certificate have been determined using the EURACHEM/CITAC Guide. We report a combined expanded uncertainty equal to the positive square root of the total variance of the uncertainty of the components using the following formula: $u_a = \sqrt{(u(V))^2 + (u(m))^2 + (u(IV))^2 + (u(RO))^2}$ This formula represents uncertainty components from the mass, volume, short-term stability, long-term stability and homogeneity factors associated with the production of this product. The expanded uncertainty, assumes a normal distribution and a coverage factor of k=2 is chosen using approximately a 95% confidence level.

7 Legal Notice and Limit of Liability: This product is for routine laboratory analysis and research purposes only. The company's liability will be limited to replacement of product or refund of purchase price. Notice of claims must be made within thirty (30) days from date of delivery.

CERTIFICATE OF ANALYSIS

Catalog No: P-297S
Description: cis-Nonachlor
Lot: 217121240
Solvent: Methanol
Hazards: Refer to SDS for complete safety information

Date Certified: Dec 13, 2017
Expiration: Dec 13, 2020
Sample Size: 1 mL
Components: 1
Storage Condition: Ambient (>5 °C)



Signal Word: Danger

Certified Reference Material



| Component | CAS # | Purity % (GC/MS) | Prepared Concentration ¹ (µg/mL) | Certified Analyte Concentration ² (µg/mL) |
|---------------|-----------|---------------------|--|---|
| cis-Nonachlor | 5103-73-1 | 98.6 | 100.4 | 99.0 |



I010796

cis-Nonochlor-Accustd-100ug/ml

Solvent / Lot: methanol

Prep: 11/20/2020 by VS

Exp: 11/27/2022

Location:

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

¹ All weights are traceable through NIST, Test No. 822-275872-11

² Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is $\pm 2.4\%$. This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

The information on this certificate may not be reproduced without the express permission of the manufacturer. See reverse side for additional information

Certified By:

Larry Decker, Organic QC Manager

1. Quality Standards:

ISO 17034 – General Requirements for the Competence of Reference Material Producers ANAB Certificate Number AR-1463

ISO/IEC 17025 – General Requirements for the Competence of Testing And Calibration Laboratories ANAB Certificate Number AT-1339

ISO 9001:2015 – Quality Management System – Requirements Eagle Registrations Certificate Number 3774

2. **Intended Use:** The product covered by this certificate is designed for calibration or for use in quality control procedures for the specified chemical compounds listed on the reverse side. This product can be used for quantification and/or identification. This product can also be used as a reference material to validate analytical procedures, subject to the conditions under Section 11.
3. **Manufacturing:** All balances are calibrated daily using an in-house procedure with weights that are compared annually to master weights and traceable to NIST. The balances are also calibrated annually by an ISO/IEC 17025 accredited calibration laboratory. Please refer to the NIST test number listed on the front of this certificate. Class A glassware is used in the manufacture and quality control of all standards and calibrated using an in-house procedure. Good Laboratory Practices have been used throughout the preparation of this CRM.
4. **Homogeneity:** This product is sufficiently homogeneous and any sample size would be within the uncertainty budget.
5. **Stability:** The manufacturer guarantees the stability of this solution through the expiration date stated on the label, when handled and stored according to the conditions stated on the label
6. **Uncertainty:** The uncertainty values as stated on the face of this certificate have been determined using the EURACHEM/CITAC Guide. We report a combined expanded uncertainty equal to the positive square root of the total variance of the uncertainty of the components using the following formula: $u_a = \sqrt{(u(V))^2 + (u(m))^2 + (u(IV))^2 + (u(RO))^2}$ This formula represents uncertainty components from the mass, volume, short-term stability, long-term stability and homogeneity factors associated with the production of this product. The expanded uncertainty, assumes a normal distribution and a coverage factor of k=2 is chosen using approximately a 95% confidence level.
7. **Legal Notice and Limit of Liability:** This product is for routine laboratory analysis and research purposes only. The company's liability will be limited to replacement of product or refund of purchase price. Notice of claims must be made within thirty (30) days from date of delivery.

CERTIFICATE OF ANALYSIS

Catalog No: APP-9-112-D-20X
Description: Hexachlorobenzene in Dichloromethane
Lot: 219051389
Solvent: Dichloromethane
Hazards: Refer to SDS for complete safety information

Date Certified: May 13, 2019
Expiration: May 13, 2029
Sample Size: 1 mL
Components: 1
Storage Condition: Ambient (>5 °C)



Certified Reference Material



| Component | CAS # | Purity % (GC/MS) | Prepared Concentration ² (µg/mL) | Certified Analyte Concentration ¹ (µg/mL) |
|-------------------|----------|---------------------|--|---|
| Hexachlorobenzene | 118-74-1 | 99.0 | 2002 | 1982 |



J006504

Hexachlorobenzene
Solvent / Lot: Dichloromethane
Prep: 6/21/2021 by YZ
Exp: 5/13/2029
Location:

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

² All weights are traceable through NIST, Test No. 684/289871-17

¹ Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is $\pm 2.4\%$. This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

The information on this certificate may not be reproduced without the express permission of the manufacturer. See reverse side for additional information

Certified By: 
Larry Decker, Organic QC Manager

1. Quality Standards:

ISO 17034 – General Requirements for the Competence of Reference Material Producers ANAB Certificate Number AR-1463

ISO/IEC 17025 – General Requirements for the Competence of Testing And Calibration Laboratories ANAB Certificate Number AT-1339

ISO 9001:2015 – Quality Management System – Requirements Eagle Registrations Certificate Number 3774

2 Intended Use: The product covered by this certificate is designed for calibration or for use in quality control procedures for the specified chemical compounds listed on the reverse side. This product can be used for quantification and/or identification. This product can also be used as a reference material to validate analytical procedures, subject to the conditions under Section 7

3 Manufacturing: All balances are calibrated daily using an in-house procedure with weights that are compared annually to master weights and traceable to NIST. The balances are also calibrated annually by an ISO/IEC 17025 accredited calibration laboratory. Please refer to the NIST test number listed on the front of this certificate. Class A glassware is used in the manufacture and quality control of all standards and calibrated using an in-house procedure. Good Laboratory Practices have been used throughout the preparation of this

4 Homogeneity: This product is sufficiently homogeneous and any sample size would be within the uncertainty budget.

5 Stability: The manufacturer guarantees the stability of this solution through the expiration date stated on the label, when handled and stored according to the conditions stated on the label

6 Uncertainty: The uncertainty values as stated on the face of this certificate have been determined using the EURACHEM/CITAC Guide. We report a combined expanded uncertainty equal to the positive square root of the total variance of the uncertainty of the components using the following formula: $u_a = \sqrt{(u(V))^2 + (u(m))^2 + (u(IV))^2 + (u(RO))^2}$ This formula represents uncertainty components from the mass, volume, short-term stability, long-term stability and homogeneity factors associated with the production of this product. The expanded uncertainty, assumes a normal distribution and a coverage factor of k=2 is chosen using approximately a 95% confidence level.

7 Legal Notice and Limit of Liability: This product is for routine laboratory analysis and research purposes only. The company's liability will be limited to replacement of product or refund of purchase price. Notice of claims must be made within thirty (30) days from date of delivery.

CERTIFICATE OF ANALYSIS

Catalog No: P-028S
Description: o,p'-DDT
Lot: 221071322
Solvent: Methanol
Hazards: Refer to SDS for complete safety information

Date Certified: Jul 21, 2021
Expiration: Aug 21, 2023
Sample Size: 1 mL
Components: 1
Storage Condition: Ambient (>5 °C)



Certified Reference Material



| Component | CAS # | Purity % (GC/MS) | Prepared Concentration ² (µg/mL) | Certified Analyte Concentration ¹ (µg/mL) |
|-----------|----------|---------------------|---|--|
| o,p'-DDT | 789-02-6 | 99.9 | 100.1 | 100.0 |

This Certified Reference Material was verified in accordance with ISO/IEC 17025

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

² All weights are traceable through NIST, Test No. 684/289871-17

¹ Certified Analyte Concentration = Purity x Prepared Concentration.


The Uncertainty associated with the certified concentration reported on this certificate is $\pm 2.4\%$. This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

The information on this certificate may not be reproduced without the express permission of the manufacturer. See reverse side for additional information

Hazard Information: Please refer to the SDS for information regarding the hazards associated with using this material.

This product was prepared according to in-house procedures and is guaranteed to be homogeneous.

Certified By: 
Larry Decker, Organic QC Manager

1. Quality Standards:

ISO 17034:2016 – General Requirements for the Competence of Reference Material Producers

ISO/IEC 17025:2017 – General Requirements for the Competence of Testing And Calibration Laboratories

ISO 9001:2015 – Quality Management System – Requirements
Eagle Registrations

- 2. Intended Use:** The product covered by this certificate is designed for calibration or for use in quality control procedures for the specified chemical compounds listed on the reverse side. This product can be used for quantification and/or identification. This product can also be used as a reference material to validate analytical procedures, subject to the conditions under Section 7.
- 3. Manufacturing:** All balances are calibrated daily using an in-house procedure with weights that are compared annually to master weights and traceable to NIST. The balances are also calibrated annually by an ISO/IEC 17025 accredited calibration laboratory. Please refer to the NIST test number listed on the front of this certificate. Class A glassware is used in the manufacture and quality control of all standards. Good Laboratory Practices have been used throughout the preparation of this Standard.
- 4. Homogeneity:** This product is sufficiently homogeneous and any sample size would be within the uncertainty budget.
- 5. Stability:** The manufacturer guarantees the stability of this solution through the expiration date stated on the label, when handled and stored according to the conditions stated on the label
- 6. Uncertainty:** The uncertainty values as stated on the face of this certificate have been determined using the EURACHEM/CITAC Guide. We report a combined expanded uncertainty equal to the positive square root of the total variance of the uncertainty of the components using the following formula: $u_a = \sqrt{(u(V))^2 + (u(m))^2 + (u(IV))^2 + (u(RO))^2}$ This formula represents uncertainty components from the mass, volume, short-term stability, long-term stability and homogeneity factors associated with the production of this product. The expanded uncertainty, assumes a normal distribution and a coverage factor of $k=2$ is chosen using approximately a 95% confidence level.
- 7. Legal Notice and Limit of Liability:** This product is for routine laboratory analysis and research purposes only. The company's liability will be limited to replacement of product or refund of purchase price. Notice of claims must be made within thirty (30) days from date of delivery.

CERTIFICATE OF ANALYSIS

Catalog No: P-024S
Description: o,p'-DDD
Lot: 220051307-01
Solvent: Methanol
Hazards: Refer to SDS for complete safety information

Date Certified: Jul 6, 2021
Expiration: Aug 6, 2023
Sample Size: 1 mL
Components: 1
Storage Condition: Ambient (>5 °C)



Signal Word: Danger

Certified Reference Material



| Component | CAS # | Purity % (GC/MS) | Prepared Concentration ² (µg/mL) | Certified Analyte Concentration ¹ (µg/mL) |
|-----------|---------|---------------------|---|--|
| o,p'-DDD | 53-19-0 | 100.0 | 100.2 | 100.2 |

K 0448

This Certified Reference Material was verified in accordance with ISO/IEC 17025

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

² All weights are traceable through NIST, Test No. 684/289871-17

¹ Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is $\pm 2.4\%$. This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

The information on this certificate may not be reproduced without the express permission of the manufacturer. See reverse side for additional information

Hazard Information: Please refer to the SDS for information regarding the hazards associated with using this material.

This product was prepared according to in-house procedures and is guaranteed to be homogeneous.

Certified By:

Larry Decker, Organic QC Manager

CERTIFICATE OF ANALYSIS

Catalog No: P-331S
Description: Oxychlordane Isomer
Lot: 221051706
Solvent: Methanol
Hazards: Refer to SDS for complete safety information

Date Certified: May 28, 2021
Expiration: Jun 28, 2023
Sample Size: 1 mL
Components: 1
Storage Condition: Ambient (>5 °C)



Signal Word: Danger

Certified Reference Material



AR-1463

| Component | CAS # | Purity % (GC/MS) | Prepared Concentration ² (µg/mL) | Certified Analyte Concentration ¹ (µg/mL) |
|---------------------|------------|---------------------|---|--|
| Oxychlordane Isomer | 27304-13-8 | 99.2 | 100.1 | 99.3 |

K000449

Oxychlordane isomer
Solvent / Lot: methanol
Prep: 1/13/2022 by YZ
Exp: 6/28/2023
Location:

This Certified Reference Material was verified in accordance with ISO/IEC 17025

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

² All weights are traceable through NIST, Test No. 684/289871-17

¹ Certified Analyte Concentration = Purity x Prepared Concentration.


The Uncertainty associated with the certified concentration reported on this certificate is $\pm 2.4\%$. This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

The information on this certificate may not be reproduced without the express permission of the manufacturer. See reverse side for additional information

Hazard Information: Please refer to the SDS for information regarding the hazards associated with using this material.

This product was prepared according to in-house procedures and is guaranteed to be homogeneous.

Certified By: 
Larry Decker, Organic QC Manager

1. Quality Standards:

ISO 17034:2016 – General Requirements for the Competence of Reference Material Producers

ISO/IEC 17025:2017 – General Requirements for the Competence of Testing And Calibration Laboratories

ISO 9001:2015 – Quality Management System – Requirements
Eagle Registrations

- 2. Intended Use:** The product covered by this certificate is designed for calibration or for use in quality control procedures for the specified chemical compounds listed on the reverse side. This product can be used for quantification and/or identification. This product can also be used as a reference material to validate analytical procedures, subject to the conditions under Section 7.
- 3. Manufacturing:** All balances are calibrated daily using an in-house procedure with weights that are compared annually to master weights and traceable to NIST. The balances are also calibrated annually by an ISO/IEC 17025 accredited calibration laboratory. Please refer to the NIST test number listed on the front of this certificate. Class A glassware is used in the manufacture and quality control of all standards. Good Laboratory Practices have been used throughout the preparation of this Standard.
- 4. Homogeneity:** This product is sufficiently homogeneous and any sample size would be within the uncertainty budget.
- 5. Stability:** The manufacturer guarantees the stability of this solution through the expiration date stated on the label, when handled and stored according to the conditions stated on the label
- 6. Uncertainty:** The uncertainty values as stated on the face of this certificate have been determined using the EURACHEM/CITAC Guide. We report a combined expanded uncertainty equal to the positive square root of the total variance of the uncertainty of the components using the following formula: $u_a = \sqrt{(u(V))^2 + (u(m))^2 + (u(IV))^2 + (u(RO))^2}$ This formula represents uncertainty components from the mass, volume, short-term stability, long-term stability and homogeneity factors associated with the production of this product. The expanded uncertainty, assumes a normal distribution and a coverage factor of $k=2$ is chosen using approximately a 95% confidence level.
- 7. Legal Notice and Limit of Liability:** This product is for routine laboratory analysis and research purposes only. The company's liability will be limited to replacement of product or refund of purchase price. Notice of claims must be made within thirty (30) days from date of delivery.

CERTIFICATE OF ANALYSIS

Catalog No: P-297S
Description: cis-Nonachlor
Lot: 221041461
Solvent: Methanol
Hazards: Refer to SDS for complete safety information

Date Certified: Apr 22, 2021
Expiration: Apr 22, 2024
Sample Size: 1 mL
Components: 1
Storage Condition: Ambient (>5 °C)



Signal Word: Danger

Certified Reference Material



| Component | CAS # | Purity % (GC/MS) | Prepared Concentration ² (µg/mL) | Certified Analyte Concentration ¹ (µg/mL) |
|---------------|-----------|---------------------|---|--|
| cis-Nonachlor | 5103-73-1 | 98.6 | 101.1 | 99.7 |

K 000450

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

² All weights are traceable through NIST, Test No. 684/289871-17

¹ Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is ±2.4%. This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

The information on this certificate may not be reproduced without the express permission of the manufacturer. See reverse side for additional information

Hazard Information: Please refer to the SDS for information regarding the hazards associated with using this material.

This product was prepared according to in-house procedures and is guaranteed to be homogeneous.

Certified By:

Larry Decker, Organic QC Manager

CERTIFICATE OF ANALYSIS

Catalog No: P-184S
Description: trans-Nonachlor
Lot: 220091107
Solvent: Methanol
Hazards: Refer to SDS for complete safety information

Date Certified: Sep 11, 2020
Expiration: Sep 11, 2030
Sample Size: 1 mL
Components: 1
Storage Condition: Ambient (>5 °C)



Signal Word: Danger

Certified Reference Material



| Component | CAS # | Purity % (GC/MS) | Prepared Concentration ² (µg/mL) | Certified Analyte Concentration ¹ (µg/mL) |
|-----------------|------------|---------------------|---|--|
| trans-Nonachlor | 39765-80-5 | 99.0 | 100.2 | 99.2 |

K-00451

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

² All weights are traceable through NIST, Test No. 684/289871-17

¹ Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is $\pm 2.4\%$. This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

The information on this certificate may not be reproduced without the express permission of the manufacturer. See reverse side for additional information

Hazard Information: Please refer to the SDS for information regarding the hazards associated with using this material.

This product was prepared according to in-house procedures and is guaranteed to be homogeneous.

Certified By:

Larry Decker, Organic QC Manager

CERTIFICATE OF ANALYSIS

Catalog No: P-066S
Description: Mirex
Lot: 219051741-01
Solvent: Methanol
Hazards: Refer to SDS for complete safety information

Date Certified: Jun 5, 2020
Expiration: Jun 5, 2024
Sample Size: 1 mL
Components: 1
Storage Condition: Ambient (>5 °C)



Signal Word: Danger

Certified Reference Material



| Component | CAS # | Purity % (GC/MS) | Prepared Concentration ² (µg/mL) | Certified Analyte Concentration ¹ (µg/mL) |
|-----------|-----------|---------------------|---|--|
| Mirex | 2385-85-5 | 98.2 | 100.2 | 98.4 |

K 000952

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

² All weights are traceable through NIST, Test No. 684/289871-17

¹ Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is $\pm 2.4\%$. This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

The information on this certificate may not be reproduced without the express permission of the manufacturer. See reverse side for additional information

Hazard Information: Please refer to the SDS for information regarding the hazards associated with using this material.

This product was prepared according to in-house procedures and is guaranteed to be homogeneous.

Certified By:

Larry Decker, Organic QC Manager

K 000 452

CERTIFICATE OF ANALYSIS

Catalog No: P-066S

Description: Mirex

Lot: 221121451

Solvent: Methanol

Hazards: Refer to SDS for complete safety information

Date Certified: Dec 27, 2021

Expiration: Dec 27, 2025

Sample Size: 1 mL

Components: 1

Storage Condition: Ambient (>5 °C)



Signal Word: Danger

Certified Reference Material



| Component | CAS # | Purity % (GC/MS) | Prepared Concentration ² (µg/mL) | Certified Analyte Concentration ¹ (µg/mL) |
|-----------|-----------|---------------------|---|--|
| Mirex | 2385-85-5 | 98.2 | 100.0 | 98.2 |

This Certified Reference Material was verified in accordance with ISO/IEC 17025

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

² All weights are traceable through NIST, Test No. 684/289871-17

¹ Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is ±2.4%. This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

The information on this certificate may not be reproduced without the express permission of the manufacturer. See reverse side for additional information

Hazard Information: Please refer to the SDS for information regarding the hazards associated with using this material.

This product was prepared according to in-house procedures and is guaranteed to be homogeneous.

Certified By:

Larry Decker, Organic QC Manager

CERTIFICATE OF ANALYSIS

Catalog No: M-8081-DS
Description: 4,4'-DDT & Endrin
Lot: 221031488-04
Solvent: Hexane
Hazards: Refer to SDS for complete safety information

Date Certified: Apr 8, 2022
Expiration: May 8, 2023
Sample Size: 1 mL
Components: 2
Storage Condition: Ambient (>5 °C)



Signal Word: Danger

Certified Reference Material



| Component | CAS # | Purity % (GC/MS) | Prepared Concentration ² (µg/mL) | Certified Analyte Concentration ¹ (µg/mL) |
|-----------|---------|---------------------|---|--|
| 4,4'-DDT | 50-29-3 | 100.0 | 200.9 | 200.9 |
| Endrin | 72-20-8 | 99.8 | 200.0 | 199.6 |

K7002

This Certified Reference Material was verified in accordance with ISO/IEC 17025

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

² All weights are traceable through NIST, Test No. 684/289871-17

¹ Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is $\pm 2.4\%$. This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

The information on this certificate may not be reproduced without the express permission of the manufacturer. See reverse side for additional information

Hazard Information: Please refer to the SDS for information regarding the hazards associated with using this material.

This product was prepared according to in-house procedures and is guaranteed to be homogeneous.

Certified By:



Larry Decker, Organic QC Manager



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32292 **Lot No.:** A0185477

Description : Organochlorine Pesticide Mix AB # 2
Organochlorine Pesticide Mix AB # 2 8-80 µg/mL, Hexane/Toluene(1:1), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

| Elution Order | Compound | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.; K=2) | | | |
|---------------|--------------------------------|-----------------------------|--------------------------------------|--------|-------|-------------|
| 1 | alpha-BHC | 8.1 µg/mL | +/- | 0.0660 | µg/mL | Gravimetric |
| | CAS # 319-84-6 (Lot 12307600) | | +/- | 0.3703 | µg/mL | Unstressed |
| | Purity 99% | | +/- | 0.5325 | µg/mL | Stressed |
| 2 | gamma-BHC (Lindane) | 8.0 µg/mL | +/- | 0.0654 | µg/mL | Gravimetric |
| | CAS # 58-89-9 (Lot 13087200) | | +/- | 0.3672 | µg/mL | Unstressed |
| | Purity 99% | | +/- | 0.5281 | µg/mL | Stressed |
| 3 | beta-BHC | 8.1 µg/mL | +/- | 0.0660 | µg/mL | Gravimetric |
| | CAS # 319-85-7 (Lot 0588007-4) | | +/- | 0.3703 | µg/mL | Unstressed |
| | Purity 99% | | +/- | 0.5325 | µg/mL | Stressed |
| 4 | delta-BHC | 8.1 µg/mL | +/- | 0.0660 | µg/mL | Gravimetric |
| | CAS # 319-86-8 (Lot 13112400) | | +/- | 0.3703 | µg/mL | Unstressed |
| | Purity 99% | | +/- | 0.5325 | µg/mL | Stressed |
| 5 | Heptachlor | 8.0 µg/mL | +/- | 0.0654 | µg/mL | Gravimetric |
| | CAS # 76-44-8 (Lot 803759) | | +/- | 0.3672 | µg/mL | Unstressed |
| | Purity 99% | | +/- | 0.5281 | µg/mL | Stressed |
| 6 | Aldrin | 8.1 µg/mL | +/- | 0.0660 | µg/mL | Gravimetric |
| | CAS # 309-00-2 (Lot 12983100) | | +/- | 0.3702 | µg/mL | Unstressed |
| | Purity 96% | | +/- | 0.5323 | µg/mL | Stressed |
| 7 | Heptachlor epoxide (isomer B) | 8.1 µg/mL | +/- | 0.0660 | µg/mL | Gravimetric |
| | CAS # 1024-57-3 (Lot 13168200) | | +/- | 0.3703 | µg/mL | Unstressed |
| | Purity 99% | | +/- | 0.5325 | µg/mL | Stressed |

| | | | | | | |
|----|---|-----------------|------------|--|-------------------------|---------------------------------------|
| 8 | trans-Chlordane CAS # 5103-74-2 Purity 98% | (Lot 32943) | 8.0 µg/mL | +/- 0.0657 +/- 0.3689 +/- 0.5305 | µg/mL µg/mL µg/mL | Gravimetric Unstressed Stressed |
| 9 | cis-Chlordane CAS # 5103-71-9 Purity 98% | (Lot 31766) | 8.0 µg/mL | +/- 0.0657 +/- 0.3689 +/- 0.5305 | µg/mL µg/mL µg/mL | Gravimetric Unstressed Stressed |
| 10 | Endosulfan I CAS # 959-98-8 Purity 99% | (Lot BCCF4060) | 8.0 µg/mL | +/- 0.0654 +/- 0.3672 +/- 0.5281 | µg/mL µg/mL µg/mL | Gravimetric Unstressed Stressed |
| 11 | 4,4'-DDE CAS # 72-55-9 Purity 99% | (Lot GHYQG) | 16.1 µg/mL | +/- 0.1314 +/- 0.7375 +/- 1.0606 | µg/mL µg/mL µg/mL | Gravimetric Unstressed Stressed |
| 12 | Dieldrin CAS # 60-57-1 Purity 98% | (Lot 11129900) | 16.1 µg/mL | +/- 0.1320 +/- 0.7408 +/- 1.0653 | µg/mL µg/mL µg/mL | Gravimetric Unstressed Stressed |
| 13 | Endrin CAS # 72-20-8 Purity 99% | (Lot 13157400) | 16.1 µg/mL | +/- 0.1320 +/- 0.7406 +/- 1.0650 | µg/mL µg/mL µg/mL | Gravimetric Unstressed Stressed |
| 14 | 4,4'-DDD CAS # 72-54-8 Purity 99% | (Lot HAN02) | 16.1 µg/mL | +/- 0.1320 +/- 0.7406 +/- 1.0650 | µg/mL µg/mL µg/mL | Gravimetric Unstressed Stressed |
| 15 | Endosulfan II CAS # 33213-65-9 Purity 99% | (Lot 12448900) | 16.0 µg/mL | +/- 0.1309 +/- 0.7345 +/- 1.0562 | µg/mL µg/mL µg/mL | Gravimetric Unstressed Stressed |
| 16 | 4,4'-DDT CAS # 50-29-3 Purity 98% | (Lot 220428JLM) | 16.1 µg/mL | +/- 0.1315 +/- 0.7378 +/- 1.0610 | µg/mL µg/mL µg/mL | Gravimetric Unstressed Stressed |
| 17 | Endrin aldehyde CAS # 7421-93-4 Purity 99% | (Lot 30720) | 16.1 µg/mL | +/- 0.1314 +/- 0.7375 +/- 1.0606 | µg/mL µg/mL µg/mL | Gravimetric Unstressed Stressed |
| 18 | Endosulfan sulfate CAS # 1031-07-8 Purity 99% | (Lot BCCB0424) | 16.1 µg/mL | +/- 0.1320 +/- 0.7406 +/- 1.0650 | µg/mL µg/mL µg/mL | Gravimetric Unstressed Stressed |
| 19 | Methoxychlor CAS # 72-43-5 Purity 98% | (Lot 13027000) | 80.2 µg/mL | +/- 0.5781 +/- 3.6697 +/- 5.2871 | µg/mL µg/mL µg/mL | Gravimetric Unstressed Stressed |
| 20 | Endrin ketone CAS # 53494-70-5 Purity 99% | (Lot 13026800) | 16.1 µg/mL | +/- 0.1314 +/- 0.7375 +/- 1.0606 | µg/mL µg/mL µg/mL | Gravimetric Unstressed Stressed |

Solvent: Hexane/Toluene (50:50)
CAS # 110-54-3/108-88-3
Purity 99%

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

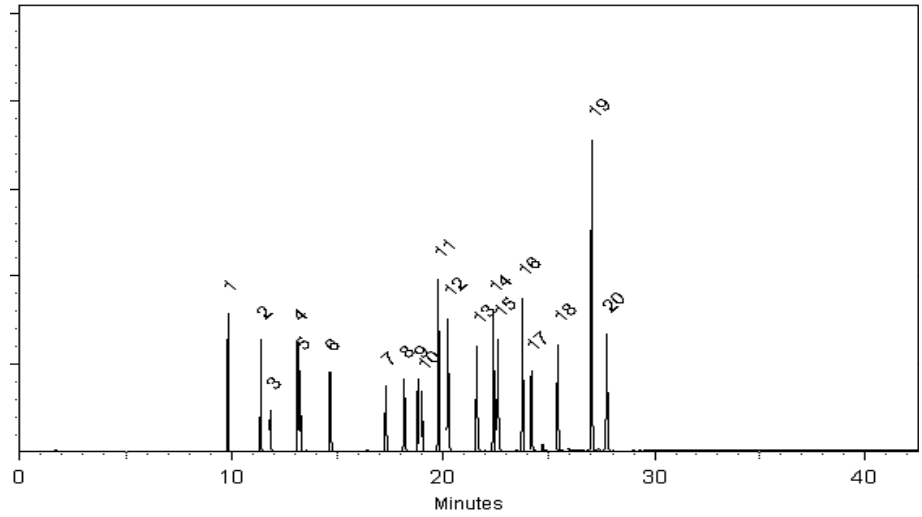
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
150°C to 300°C
@ 4°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
300°C


Det. Type:
ECD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Morgan Craighead - Mix Technician

Date Mixed: 19-May-2022 **Balance:** B442140311


Fang-Yun Lo - GC Analyst

Date Passed: 26-May-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

| Label Conditions | Standard Conditions | Non-Standard Conditions |
|---|---------------------|-------------------------|
| 25°C Nominal (Room Temperature) | < 60°C | ≥ 60°C up to 7 days |
| 10°C or colder (Refrigerate) | < 40°C | ≥ 40°C up to 7 days |
| 0°C or colder (Freezer) -20°C or colder (Deep Freezer) | < 25°C | ≥ 25°C up to 7 days |

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

CERTIFICATE OF ANALYSIS

Catalog No: M-502-36-10X
Description: Hexachlorobutadiene
Lot: 222031188
Solvent: Methanol
Hazards: Refer to SDS for complete safety information

Date Certified: Mar 11, 2022
Expiration: Apr 11, 2024
Sample Size: 1 mL
Components: 1
Storage Condition: Ambient (>5 °C)



Certified Reference Material



| Component | CAS # | Purity % (GC/MS) | Prepared Concentration ² (µg/mL) | Certified Analyte Concentration ¹ (µg/mL) |
|---------------------|---------|---------------------|---|--|
| Hexachlorobutadiene | 87-68-3 | 98.0 | 2002 | 1962 |

This Certified Reference Material was verified in accordance with ISO/IEC 17025

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

² All weights are traceable through NIST, Test No. 684/289871-17

¹ Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is $\pm 2.4\%$. This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

The information on this certificate may not be reproduced without the express permission of the manufacturer. See reverse side for additional information

Hazard Information: Please refer to the SDS for information regarding the hazards associated with using this material.

This product was prepared according to in-house procedures and is guaranteed to be homogeneous.

Certified By: 
Larry Decker, Organic QC Manager

1. Quality Standards:

ISO 17034:2016 – General Requirements for the Competence of Reference Material Producers

ISO/IEC 17025:2017 – General Requirements for the Competence of Testing And Calibration Laboratories

ISO 9001:2015 – Quality Management System – Requirements
Eagle Registrations

2. Intended Use: The product covered by this certificate is designed for calibration or for use in quality control procedures for the specified chemical compounds listed on the reverse side. This product can be used for quantification and/or identification. This product can also be used as a reference material to validate analytical procedures, subject to the conditions under Section 7.

3. Manufacturing: All balances are calibrated daily using an in-house procedure with weights that are compared annually to master weights and traceable to NIST. The balances are also calibrated annually by an ISO/IEC 17025 accredited calibration laboratory. Please refer to the NIST test number listed on the front of this certificate. Class A glassware is used in the manufacture and quality control of all standards. Good Laboratory Practices have been used throughout the preparation of this Standard.

4. Homogeneity: This product is sufficiently homogeneous and any sample size would be within the uncertainty budget.

5. Stability: The manufacturer guarantees the stability of this solution through the expiration date stated on the label, when handled and stored according to the conditions stated on the label

6. Uncertainty: The uncertainty values as stated on the face of this certificate have been determined using the EURACHEM/CITAC Guide. We report a combined expanded uncertainty equal to the positive square root of the total variance of the uncertainty of the components using the following formula: $u_a = \sqrt{(u(V))^2 + (u(m))^2 + (u(IV))^2 + (u(RO))^2}$ This formula represents uncertainty components from the mass, volume, short-term stability, long-term stability and homogeneity factors associated with the production of this product. The expanded uncertainty, assumes a normal distribution and a coverage factor of $k=2$ is chosen using approximately a 95% confidence level.

7. Legal Notice and Limit of Liability: This product is for routine laboratory analysis and research purposes only. The company's liability will be limited to replacement of product or refund of purchase price. Notice of claims must be made within thirty (30) days from date of delivery.

CERTIFICATE OF ANALYSIS

Catalog No: M-502-36-10X

Description: Hexachlorobutadiene

Lot: 222031188

Solvent: Methanol

Hazards: Refer to SDS for complete safety information

Date Certified: Mar 11, 2022

Expiration: Apr 11, 2024

Sample Size: 1 mL

Components: 1

Storage Condition: Ambient (>5 °C)



Signal Word: Danger

Certified Reference Material



| Component | CAS # | Purity % (GC/MS) | Prepared Concentration ² (µg/mL) | Certified Analyte Concentration ¹ (µg/mL) |
|---------------------|---------|---------------------|---|--|
| Hexachlorobutadiene | 87-68-3 | 98.0 | 2002 | 1962 |

K011468

This Certified Reference Material was verified in accordance with ISO/IEC 17025

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

² All weights are traceable through NIST, Test No. 684/289871-17

¹ Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is ±2.4%. This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

The information on this certificate may not be reproduced without the express permission of the manufacturer. See reverse side for additional information

Hazard Information: Please refer to the SDS for information regarding the hazards associated with using this material.

This product was prepared according to in-house procedures and is guaranteed to be homogeneous.

Certified By:

Larry Decker, Organic QC Manager



ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory: Analytical Resources, LLC SDG: 23A0180
 Client: Anchor QEA, LLC
 Project: AOC5 MR Phase 1
 Matrix: Solid Laboratory ID: 23A0180-01 A File ID: 02062328ECD7.D
 Sampled: 01/10/23 08:05 Prepared: 01/26/23 14:06 Analyzed: 02/06/23 19:01
 % Solids: 51.36 Preparation: EPA 3546 (Microwave) Initial/Final: 34.35 g Wet / 2.5 mL
 Batch: BLA0559 Sequence: SLB0086 Calibration: GA00061
 Instrument: ECD7 Column 1: ZB5 Column 2: ZB35

| CAS NO. | COMPOUND | Col # | DILUTION | CONC. (ug/kg dry) | MDL | MRL | Q |
|------------|--------------|-------|----------|-------------------|-----|-----|---|
| 12674-11-2 | Aroclor 1016 | 1 | 1 | 2.8 | 1.1 | 2.8 | U |
| 11104-28-2 | Aroclor 1221 | 1 | 1 | 2.8 | 1.1 | 2.8 | U |
| 11141-16-5 | Aroclor 1232 | 1 | 1 | 2.8 | 1.1 | 2.8 | U |
| 53469-21-9 | Aroclor 1242 | 1 | 1 | 2.8 | 1.1 | 2.8 | U |
| 12672-29-6 | Aroclor 1248 | 1 | 1 | 47.1 | 1.1 | 2.8 | |
| 11097-69-1 | Aroclor 1254 | 1 | 1 | 59.9 | 1.1 | 2.8 | |
| 11096-82-5 | Aroclor 1260 | 1 | 1 | 49.6 | 0.4 | 2.8 | |

| SURROGATES | Col # | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|------------------------------|-------|-------------------|------------------|-------|-----------|---|
| <i>Decachlorobiphenyl</i> | 1 | 5.6682 | 4.08 | 72.0 | 40 - 126 | |
| <i>Tetrachlorometaxylene</i> | 1 | 5.6682 | 3.69 | 65.1 | 44 - 120 | |

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230206.b/02062328ECD7.D
Data file 2: /230206.b/230206.b/02062328ECD7.D
Method: \\target\share\chem4\ecd7.i\230206.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 23A0180-01
Client ID:
Injection Date: 06-FEB-2023 19:01
Report Date: 02/07/2023 10:36
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

| ZB5 Col | | ZB35 Col | | | ZB5 | ZB35 | RPD | Compound/Flag | |
|---------|--------|----------|--------|--------|----------|--------|------|---------------|----------------------|
| RT | Shift | Response | RT | Shift | Response | on col | | | on col |
| 5.806 | -0.003 | 133998 | 5.682 | -0.002 | 115225 | 26.0 | 28.3 | 8.2 | Tetrachloro-m-xylene |
| 13.884 | -0.007 | 104231 | 14.113 | -0.004 | 137649 | 28.8 | 28.8 | 0.0 | Decachlorobiphenyl |

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | |
|--------------------|----------------|-------------|-------|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 503318 | 363976 | -27.7 |
| Hexabromobiphenyl | 647433 | 338604 | -47.7 |

| Standard Cpnd | Column 2 | | |
|--------------------|----------------|-------------|-------|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 336911 | 301432 | -10.5 |
| Hexabromobiphenyl | 382032 | 301274 | -21.1 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-JAN-2023
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | ZB35 Col | | | | | |
|--------------------------|-------|--------|--------|--------|--------------------------|-------|--------|--------|--------|----------|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount |
| Aroclor-1016 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 |
| Aroclor-1016 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 |
| Aroclor-1016 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 |
| Aroclor-1016 | 4 | --- | | | 0.0 | 4 | --- | | | 0.0 |
| CollAve: <3 Quant Peaks | | | | | Col2Ave: <3 Quant Peaks | | | | | |
| Aroclor-1221 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 |
| Aroclor-1221 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 |
| Aroclor-1221 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 |
| CollAve: <3 Quant Peaks | | | | | Col2Ave: <3 Quant Peaks | | | | | |
| Aroclor-1232 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 |
| Aroclor-1232 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 |
| Aroclor-1232 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 |
| Aroclor-1232 | 4 | --- | | | 0.0 | 4 | --- | | | 0.0 |
| CollAve: <3 Quant Peaks | | | | | Col2Ave: <3 Quant Peaks | | | | | |
| Aroclor-1242 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 |
| Aroclor-1242 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 |
| Aroclor-1242 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 |
| Aroclor-1242 | 4 | --- | | | 0.0 | 4 | --- | | | 0.0 |
| CollAve: <3 Quant Peaks | | | | | Col2Ave: <3 Quant Peaks | | | | | |
| Aroclor-1248 | 1 | 8.394 | -0.012 | 49300 | 270.8 | 1 | 8.298 | -0.005 | 43683 | 320.6 |
| Aroclor-1248 | 2 | 8.563 | -0.018 | 35387 | 152.4 | 2 | 8.704 | -0.005 | 40577 | 276.7 |
| Aroclor-1248 | 3 | 8.982 | -0.017 | 125493 | 282.5 | 3 | 9.136 | -0.016 | 54561 | 304.5 |
| Aroclor-1248 | 4 | 9.285 | -0.009 | 137372 | 624.7 | 4 | 9.531 | -0.045 | 86513 | 390.3 |
| Total CollAve (4 peaks): | | | | 332.6 | Total Col2Ave (4 peaks): | | | | 323.0 | RPD = 3 |
| Corrected Ave (3 peaks): | | | | 235.2 | Corrected Ave (3 peaks): | | | | 300.6 | RPD = 24 |
| Aroclor-1254 | 1 | 9.285 | -0.014 | 137372 | 370.3 | 1 | 9.436 | -0.008 | 106150 | 485.4 |
| Aroclor-1254 | 2 | 9.360 | -0.018 | 55549 | 350.7 | 2 | 9.955 | -0.009 | 54526 | 308.5 |
| Aroclor-1254 | 3 | 9.661 | -0.009 | 128850 | 542.1 | 3 | 10.103 | -0.012 | 187955 | 487.5 |
| Aroclor-1254 | 4 | 9.784 | -0.024 | 198932 | 427.1 | 4 | 10.352 | -0.012 | 221453 | 574.3 |
| Aroclor-1254 | 5 | 10.122 | -0.056 | 100581 | 322.1 | 5 | 10.553 | -0.010 | 156038 | 726.6 |
| Total CollAve (5 peaks): | | | | 404.5 | Total Col2Ave (5 peaks): | | | | 516.5 | RPD = 24 |
| Corrected Ave (4 peaks): | | | | 370.1 | Corrected Ave (4 peaks): | | | | 463.9 | RPD = 23 |
| 422.55 | | | | | | | | | | |
| Aroclor-1260 | 1 | 11.031 | -0.012 | 71377 | 375.7 | 1 | 11.642 | -0.006 | 93169 | 428.7 |
| Aroclor-1260 | 2 | 11.348 | -0.012 | 61246 | 313.6 | 2 | 11.903 | -0.009 | 183774 | 334.2 |
| Aroclor-1260 | 3 | 11.717 | -0.018 | 167961 | 326.7 | 3 | 12.422 | -0.009 | 68173 | 497.4 |
| Aroclor-1260 | 4 | 12.118 | -0.022 | 96080 | 361.7 | 4 | 12.487 | -0.010 | 137015 | 385.0 |
| Aroclor-1260 | 5 | 12.232 | -0.011 | 43118 | 372.4 | NS | --- | | | ---- |
| Total CollAve (5 peaks): | | | | 350.0 | Total Col2Ave (4 peaks): | | | | 411.3 | RPD = 16 |
| Corrected Ave (4 peaks): | | | | 343.6 | Corrected Ave (3 peaks): | | | | 382.6 | RPD = 11 |
| Aroclor-1262 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 |
| Aroclor-1262 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 |
| Aroclor-1262 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 |
| Aroclor-1262 | 4 | --- | | | 0.0 | 4 | --- | | | 0.0 |
| CollAve: <3 Quant Peaks | | | | | Col2Ave: <3 Quant Peaks | | | | | |
| Aroclor-1268 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 |
| Aroclor-1268 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 |
| Aroclor-1268 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 |
| Aroclor-1268 | 4 | --- | | | 0.0 | 4 | --- | | | 0.0 |
| CollAve: <3 Quant Peaks | | | | | Col2Ave: <3 Quant Peaks | | | | | |

Total PCB Area Col1 (5.909 - 13.792) = 3398768 Col1 Total PCB = 0.8 ppm*

Total PCB Area Col2 (5.784 - 14.017) = 3197804 Col2 Total PCB = 1.0 ppm*

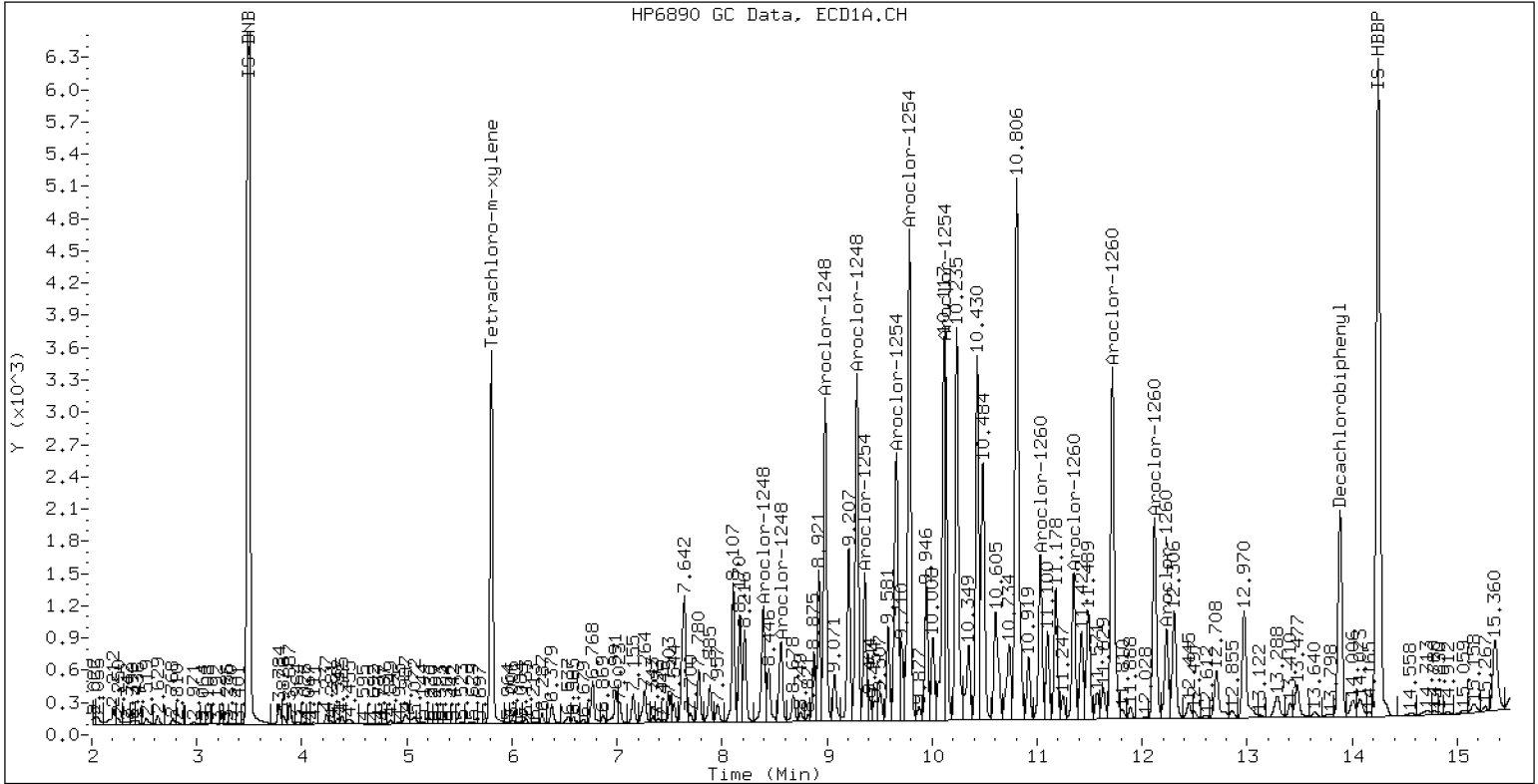
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 23A0180-01

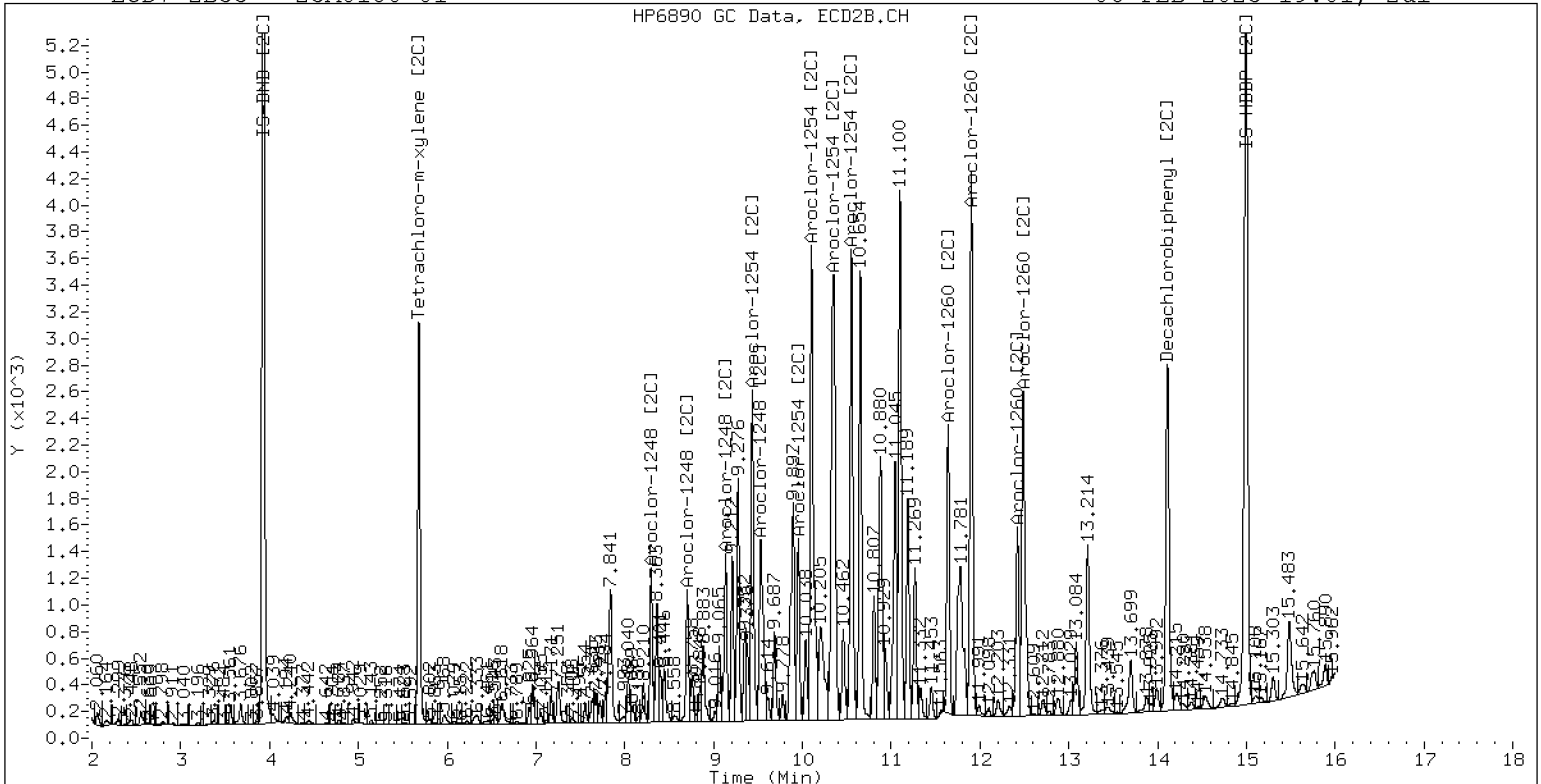
06-FEB-2023 19:01, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 23A0180-01

06-FEB-2023 19:01, 2ul



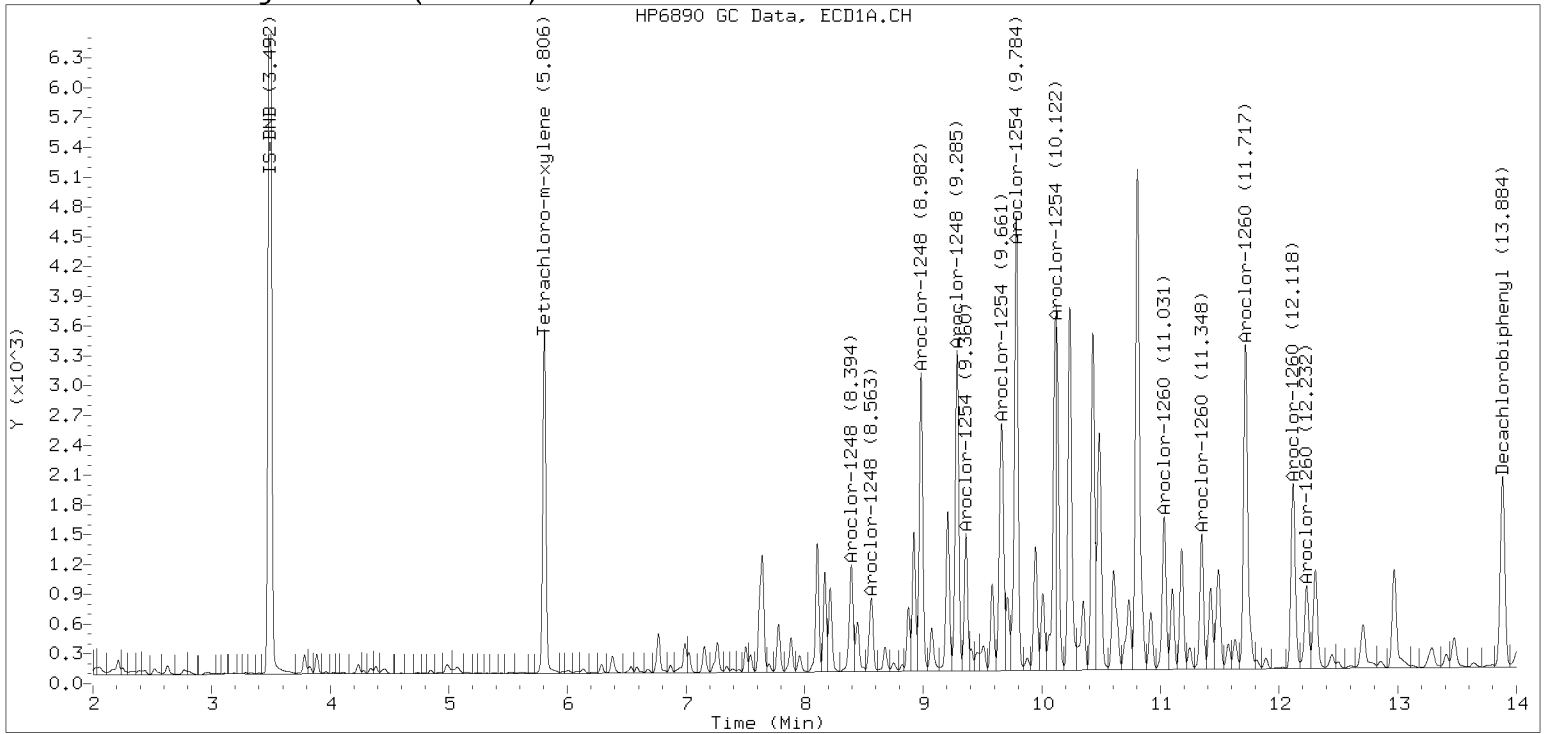
ZB-35 Manual Integration: YES

Manual Peak Adjustment, ZB-5

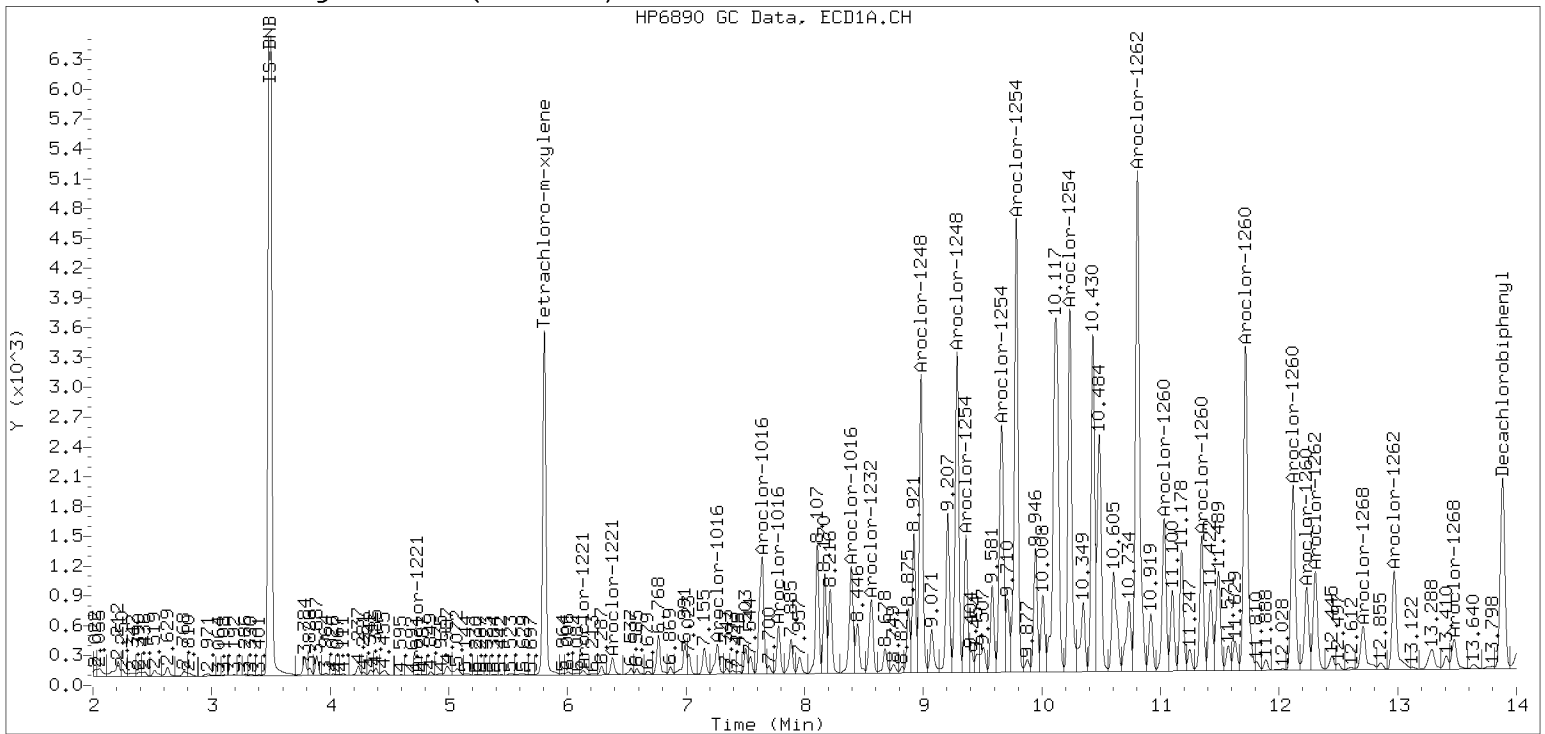
Datafile: ecd7.i/230206.b/02062328ECD7.D

Injection Date: 06-FEB-2023 19:01

Manual Integration (After)



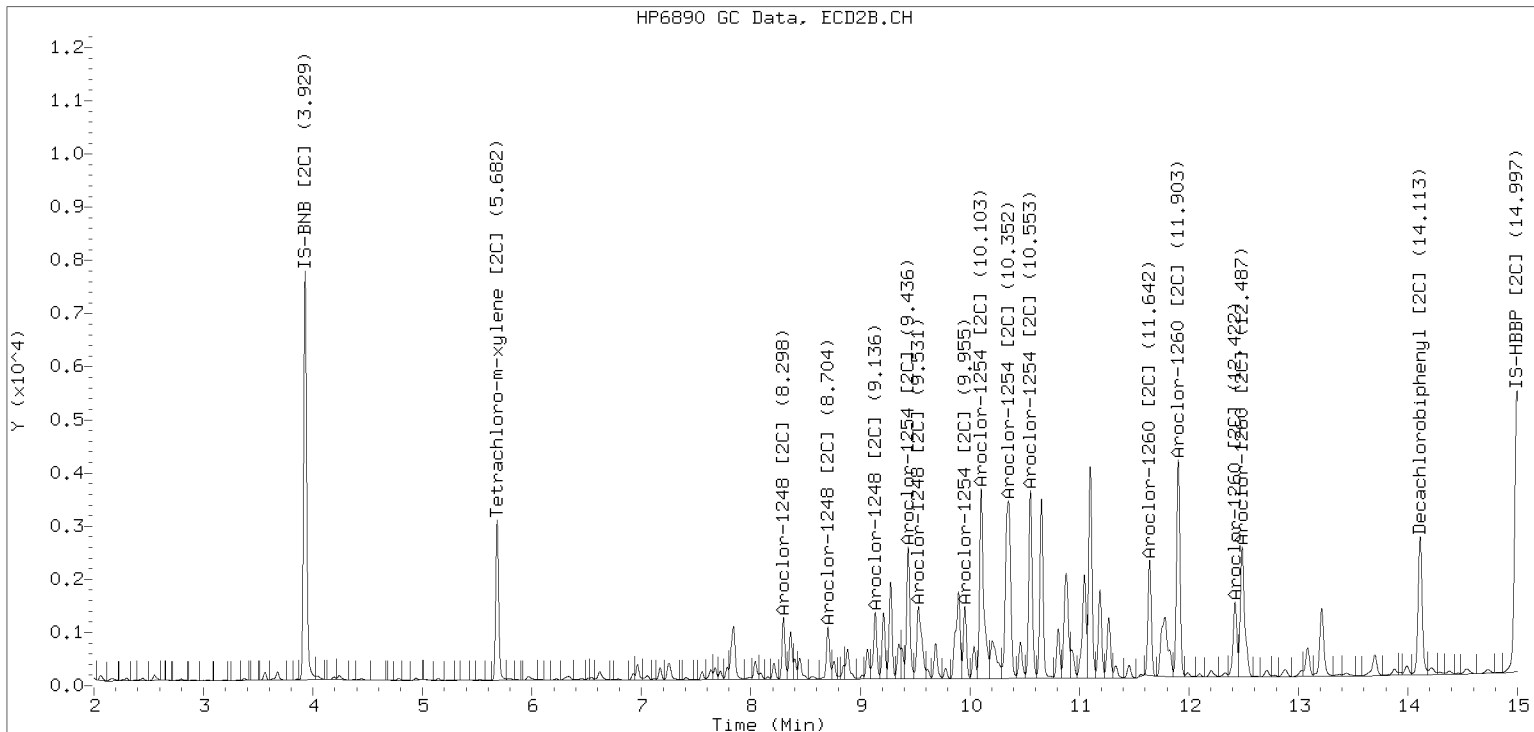
Processed Integration (Before)



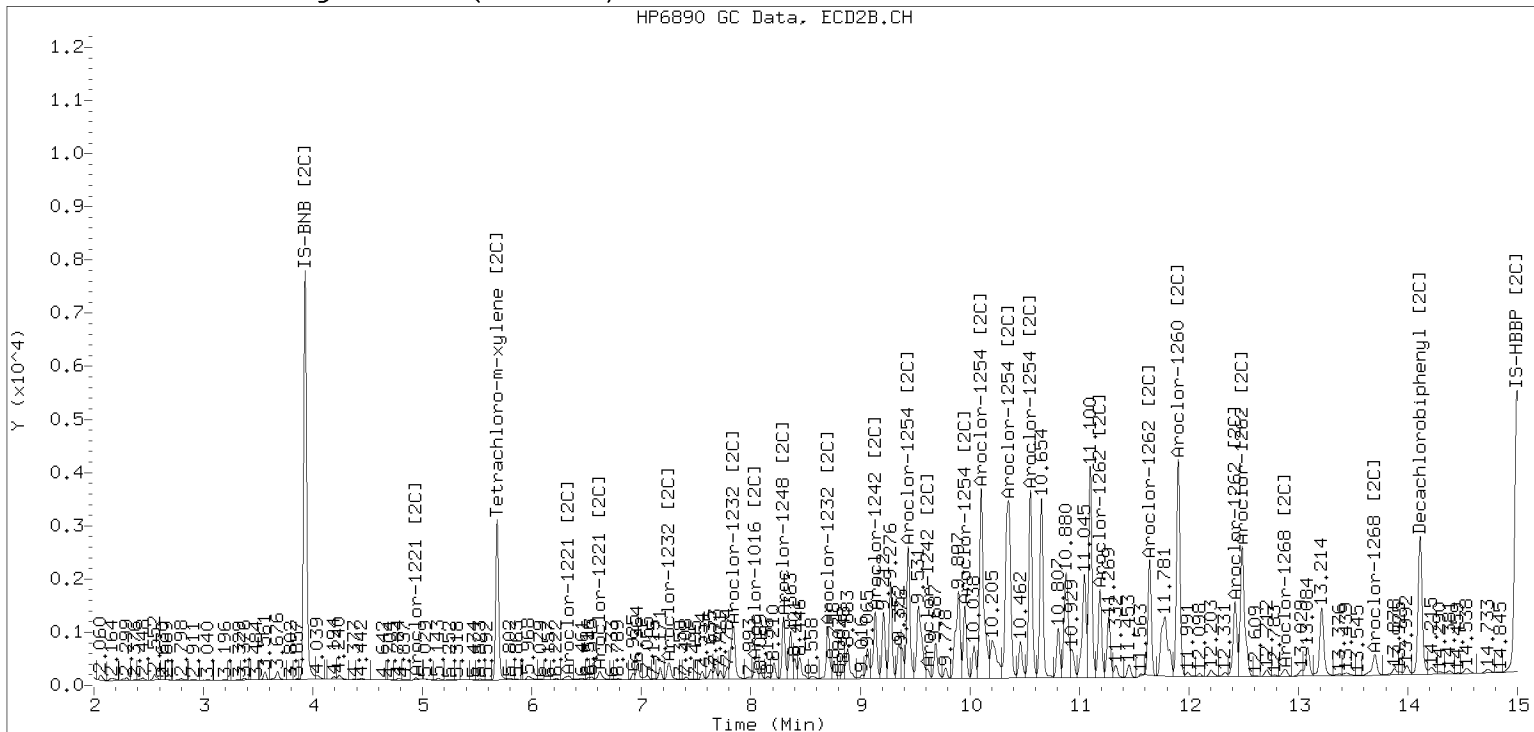
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230206.b/230206.b/02062328ECD7.D Injection Date: 06-FEB-2023

Manual Integration (After)



Processed Integration (Before)





ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Matrix: Solid

Laboratory ID: 23A0180-02 A

File ID: 02062329ECD7.D

Sampled: 01/10/23 08:05

Prepared: 01/26/23 14:06

Analyzed: 02/06/23 19:22

% Solids: 53.01

Preparation: EPA 3546 (Microwave)

Initial/Final: 23.6 g Wet / 2.5 mL

Batch: BLA0559

Sequence: SLB0086

Calibration: GA00061

Instrument: ECD7

Column 1: ZB5

Column 2: ZB35

| CAS NO. | COMPOUND | Col # | DILUTION | CONC. (ug/kg dry) | MDL | MRL | Q |
|------------|--------------|-------|----------|-------------------|-----|-----|---|
| 12674-11-2 | Aroclor 1016 | 1 | 1 | 4.0 | 1.6 | 4.0 | U |
| 11104-28-2 | Aroclor 1221 | 1 | 1 | 4.0 | 1.6 | 4.0 | U |
| 11141-16-5 | Aroclor 1232 | 1 | 1 | 4.0 | 1.6 | 4.0 | U |
| 53469-21-9 | Aroclor 1242 | 1 | 1 | 4.0 | 1.6 | 4.0 | U |
| 12672-29-6 | Aroclor 1248 | 1 | 1 | 65.4 | 1.6 | 4.0 | |
| 11097-69-1 | Aroclor 1254 | 1 | 1 | 87.6 | 1.6 | 4.0 | |
| 11096-82-5 | Aroclor 1260 | 1 | 1 | 72.2 | 0.6 | 4.0 | |

| SURROGATES | Col # | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|------------------------------|-------|-------------------|------------------|-------|-----------|---|
| <i>Decachlorobiphenyl</i> | 1 | 7.9934 | 6.56 | 82.1 | 40 - 126 | |
| <i>Tetrachlorometaxylene</i> | 1 | 7.9934 | 5.22 | 65.3 | 44 - 120 | |

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230206.b/02062329ECD7.D ARI ID: 23A0180-02
Data file 2: /230206.b/230206.b/02062329ECD7.D Client ID:
Method: \\target\share\chem4\ecd7.i\230206.b\PCB.m Injection Date: 06-FEB-2023 19:22
Compound Sublist: PCB.sub Report Date: 02/07/2023 10:36
Instrument, Inj. Vol.: ecd7.i, 2ul Matrix: NONE
Quant Method: Internal Std Dilution Factor: 1.0

SURROGATES

| ZB5 Col | | ZB35 Col | | | ZB5 | ZB35 | RPD | Compound/Flag | |
|---------|--------|----------|--------|--------|----------|--------|------|---------------|----------------------|
| RT | Shift | Response | RT | Shift | Response | on col | | | on col |
| 5.806 | -0.003 | 134231 | 5.682 | -0.002 | 116352 | 26.1 | 27.8 | 6.0 | Tetrachloro-m-xylene |
| 13.884 | -0.008 | 102128 | 14.112 | -0.004 | 134138 | 32.8 | 32.2 | 2.0 | Decachlorobiphenyl |

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1 | | | |
|--------------------|----------------|-------------|----------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 503318 | 363318 | -27.8 |
| Hexabromobiphenyl | 647433 | 290947 | -55.1 <- |

| Column 2 | | | |
|--------------------|----------------|-------------|-------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 336911 | 309952 | -8.0 |
| Hexabromobiphenyl | 382032 | 262724 | -31.2 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-JAN-2023
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | ZB35 Col | | | | | |
|--------------------------|-------|--------|--------|--------|--------------------------|-------|--------|--------|--------|----------|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount |
| Aroclor-1016 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 |
| Aroclor-1016 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 |
| Aroclor-1016 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 |
| Aroclor-1016 | 4 | --- | | | 0.0 | 4 | --- | | | 0.0 |
| CollAve: <3 Quant Peaks | | | | | Col2Ave: <3 Quant Peaks | | | | | |
| Aroclor-1221 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 |
| Aroclor-1221 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 |
| Aroclor-1221 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 |
| CollAve: <3 Quant Peaks | | | | | Col2Ave: <3 Quant Peaks | | | | | |
| Aroclor-1232 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 |
| Aroclor-1232 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 |
| Aroclor-1232 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 |
| Aroclor-1232 | 4 | --- | | | 0.0 | 4 | --- | | | 0.0 |
| CollAve: <3 Quant Peaks | | | | | Col2Ave: <3 Quant Peaks | | | | | |
| Aroclor-1242 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 |
| Aroclor-1242 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 |
| Aroclor-1242 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 |
| Aroclor-1242 | 4 | --- | | | 0.0 | 4 | --- | | | 0.0 |
| CollAve: <3 Quant Peaks | | | | | Col2Ave: <3 Quant Peaks | | | | | |
| Aroclor-1248 | 1 | 8.395 | -0.011 | 50087 | 275.6 | 1 | 8.298 | -0.005 | 44057 | 314.5 |
| Aroclor-1248 | 2 | 8.563 | -0.017 | 37979 | 163.8 | 2 | 8.704 | -0.005 | 42498 | 281.8 |
| Aroclor-1248 | 3 | 8.982 | -0.017 | 124731 | 281.3 | 3 | 9.137 | -0.015 | 55834 | 303.0 |
| Aroclor-1248 | 4 | 9.285 | -0.008 | 129298 | 589.0 | 4 | 9.531 | -0.044 | 87740 | 385.0 |
| Total CollAve (4 peaks): | | | | 327.4 | Total Col2Ave (4 peaks): | | | | 321.1 | RPD = 2 |
| Corrected Ave (3 peaks): | | | | 240.2 | Corrected Ave (3 peaks): | | | | 299.8 | RPD = 22 |
| Aroclor-1254 | 1 | 9.285 | -0.013 | 129298 | 349.2 | 1 | 9.437 | -0.008 | 98921 | 439.9 |
| Aroclor-1254 | 2 | 9.361 | -0.017 | 53631 | 339.2 | 2 | 9.955 | -0.008 | 50550 | 278.1 |
| Aroclor-1254 | 3 | 9.655 | -0.014 | 94418 | 398.0 | 3 | 10.104 | -0.011 | 180681 | 455.7 |
| Aroclor-1254 | 4 | 9.785 | -0.023 | 176610 | 379.9 | 4 | 10.351 | -0.013 | 210807 | 531.7 |
| Aroclor-1254 | 5 | 10.118 | -0.059 | 219307 | 725.5 | 5 | 10.553 | -0.009 | 150163 | 680.0 |
| Total CollAve (5 peaks): | | | | 438.3 | Total Col2Ave (5 peaks): | | | | 477.1 | RPD = 8 |
| Corrected Ave (4 peaks): | | | | 366.6 | Corrected Ave (4 peaks): | | | | 426.4 | RPD = 15 |
| Aroclor-1260 | 1 | 11.032 | -0.011 | 66742 | 408.8 | 1 | 11.643 | -0.006 | 83868 | 442.5 |
| Aroclor-1260 | 2 | 11.347 | -0.013 | 55712 | 332.0 | 2 | 11.903 | -0.009 | 160901 | 335.6 |
| Aroclor-1260 | 3 | 11.717 | -0.017 | 145566 | 329.5 | 3 | 12.423 | -0.008 | 56782 | 475.1 |
| Aroclor-1260 | 4 | 12.118 | -0.021 | 85311 | 373.8 | 4 | 12.486 | -0.010 | 117028 | 377.1 |
| Aroclor-1260 | 5 | 12.233 | -0.011 | 35990 | 361.7 | NS | --- | | | --- |
| Total CollAve (5 peaks): | | | | 361.2 | Total Col2Ave (4 peaks): | | | | 407.6 | RPD = 12 |
| Corrected Ave (4 peaks): | | | | 349.3 | Corrected Ave (3 peaks): | | | | 385.0 | RPD = 10 |
| Aroclor-1262 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 |
| Aroclor-1262 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 |
| Aroclor-1262 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 |
| Aroclor-1262 | 4 | --- | | | 0.0 | 4 | --- | | | 0.0 |
| CollAve: <3 Quant Peaks | | | | | Col2Ave: <3 Quant Peaks | | | | | |
| Aroclor-1268 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 |
| Aroclor-1268 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 |
| Aroclor-1268 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 |
| Aroclor-1268 | 4 | --- | | | 0.0 | 4 | --- | | | 0.0 |
| CollAve: <3 Quant Peaks | | | | | Col2Ave: <3 Quant Peaks | | | | | |

Total PCB Area Col1 (5.909 - 13.792) = 3051390 Col1 Total PCB = 0.7 ppm*

Total PCB Area Col2 (5.784 - 14.017) = 2885834 Col2 Total PCB = 0.9 ppm*

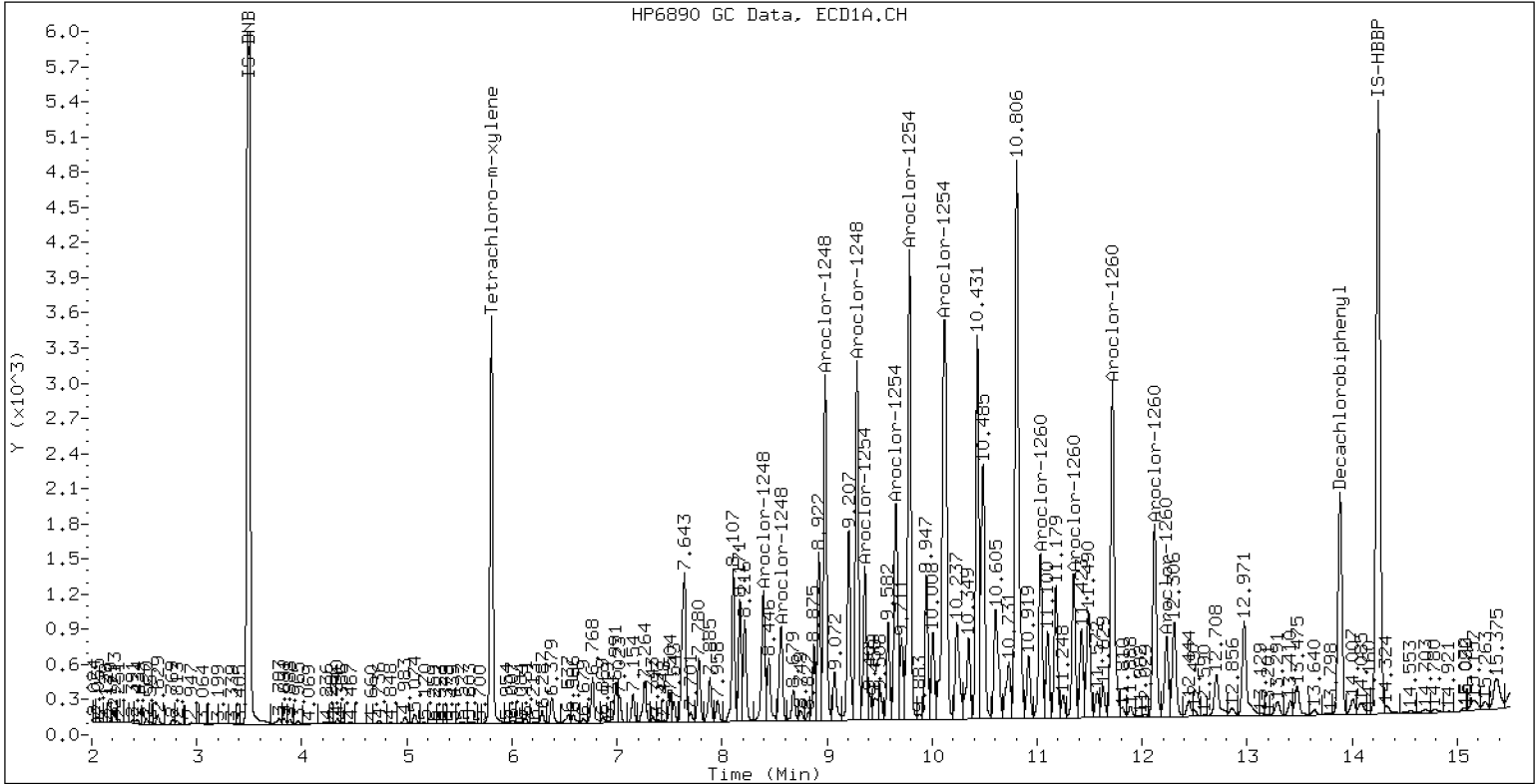
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 23A0180-02

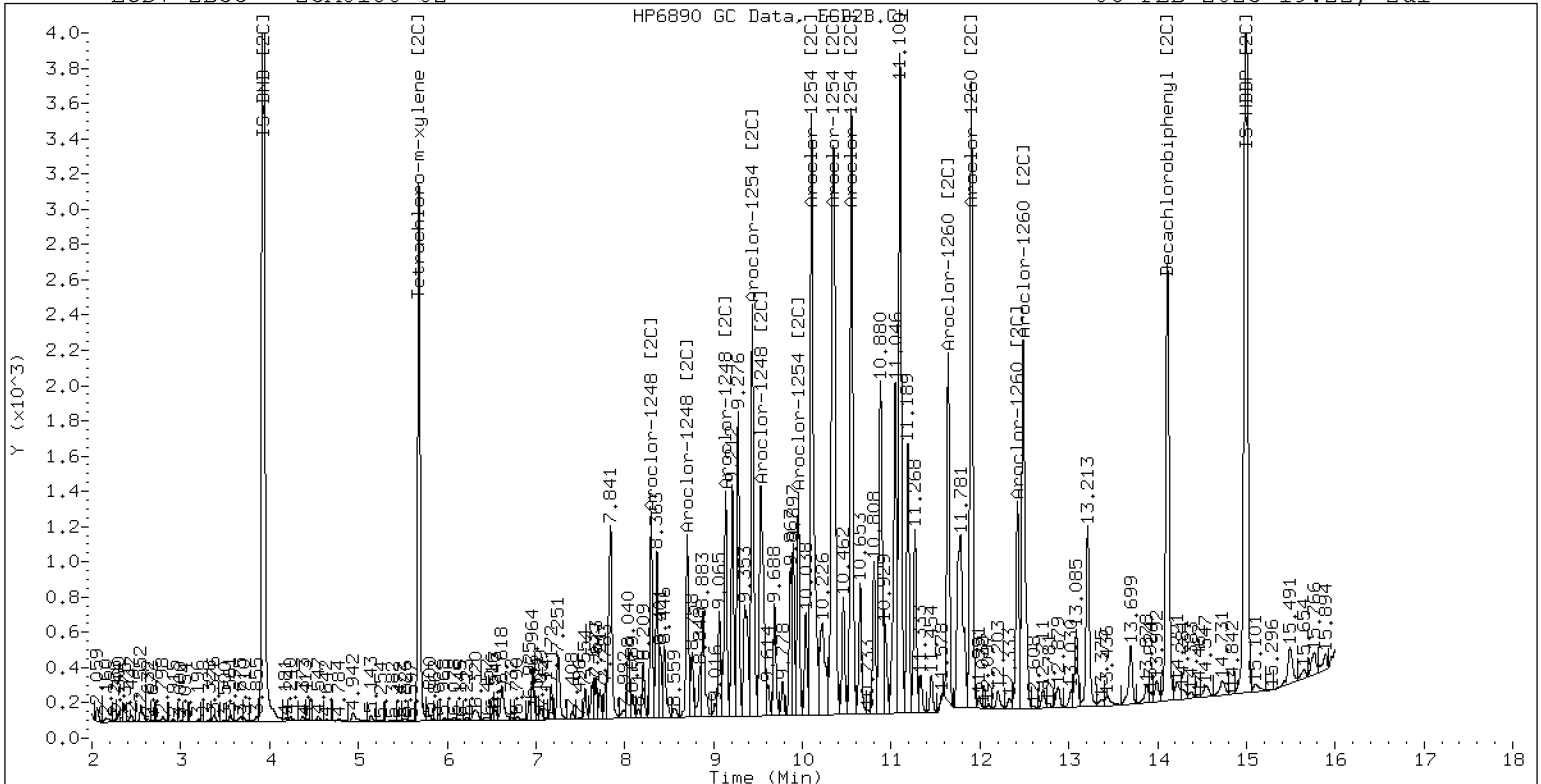
06-FEB-2023 19:22, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 23A0180-02

06-FEB-2023 19:22, 2ul

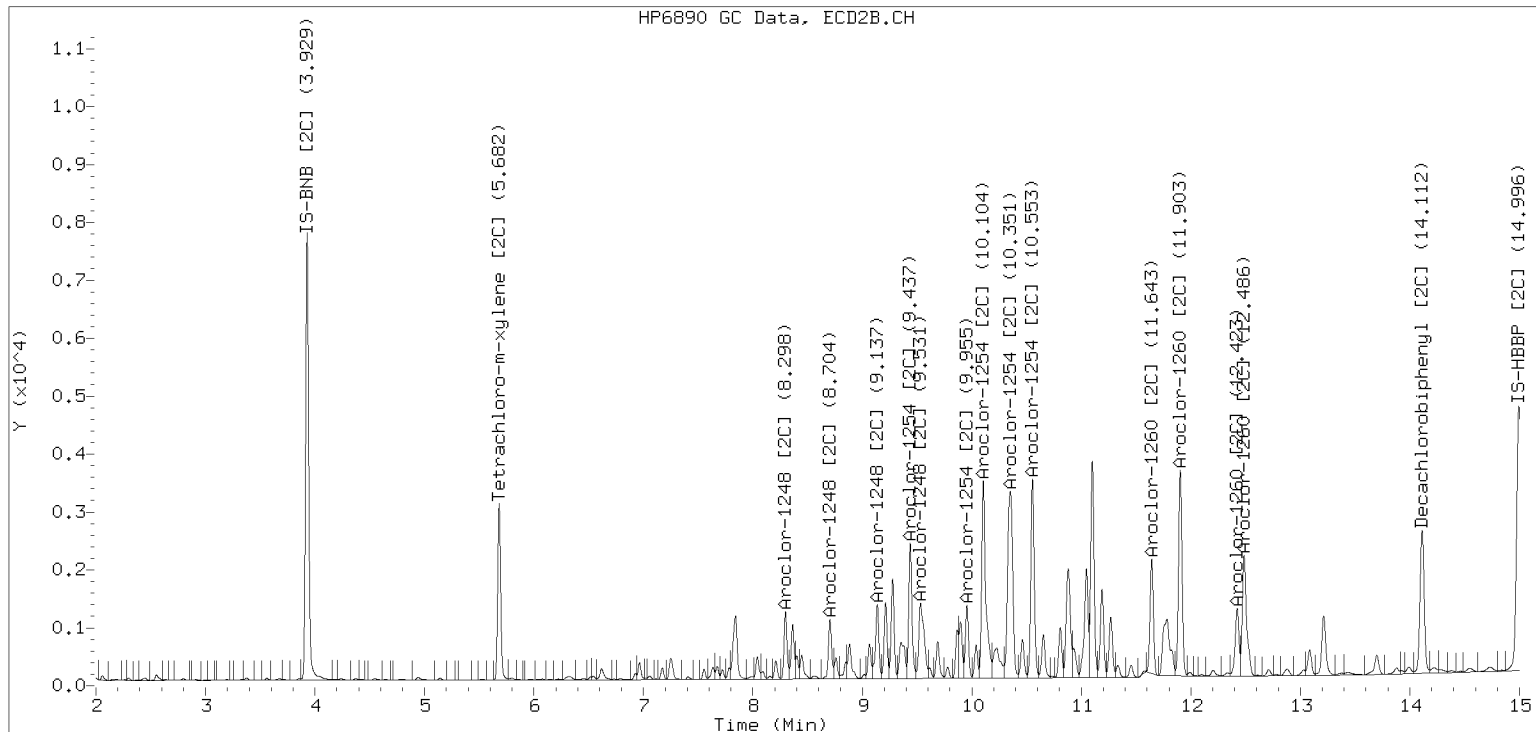


ZB-35 Manual Integration: YES

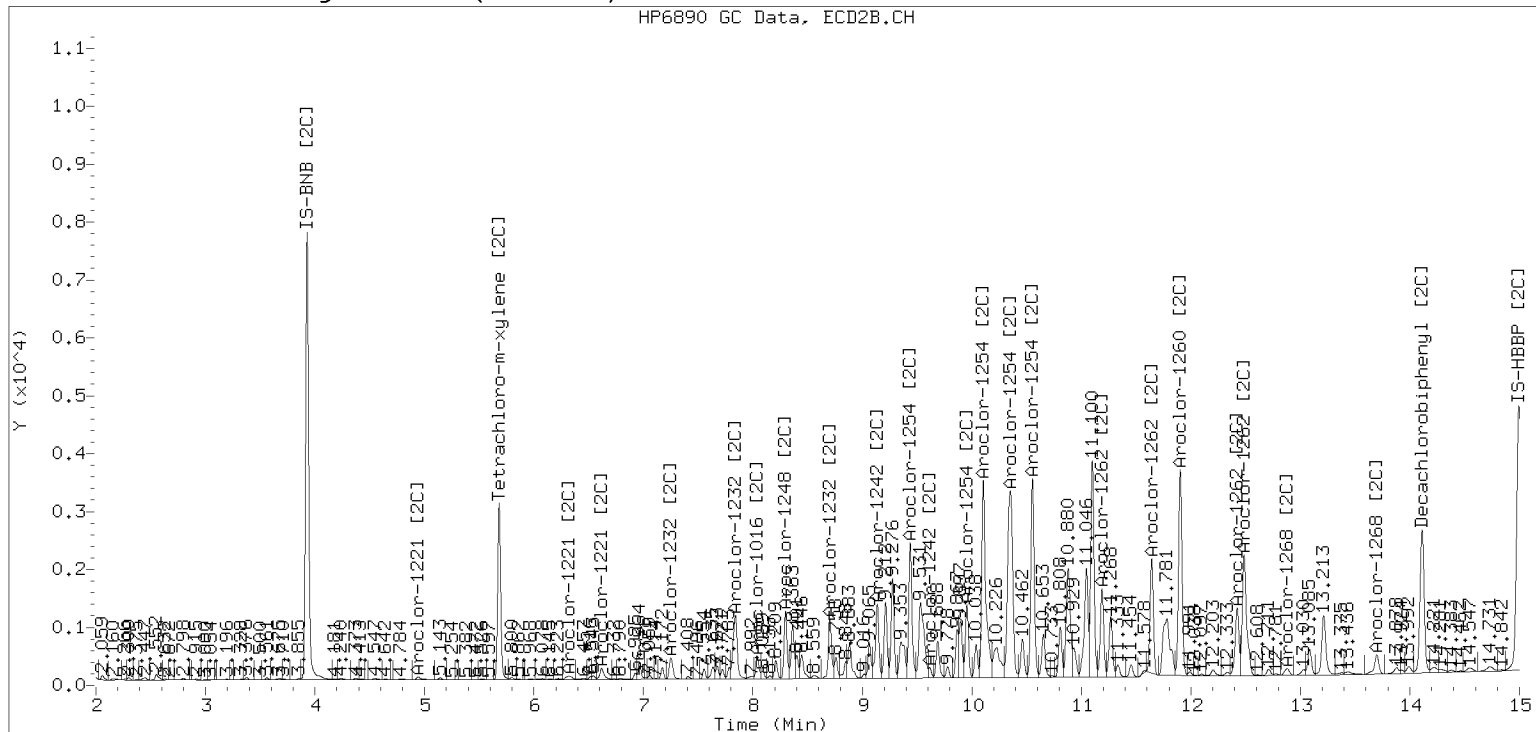
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230206.b/230206.b/02062329ECD7.D Injection Date: 06-FEB-2023

Manual Integration (After)



Processed Integration (Before)





ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory: Analytical Resources, LLC SDG: 23A0180
 Client: Anchor QEA, LLC
 Project: AOC5 MR Phase 1
 Matrix: Solid Laboratory ID: 23A0180-03 A File ID: 02062330ECD7.D
 Sampled: 01/10/23 08:33 Prepared: 01/26/23 14:06 Analyzed: 02/06/23 19:43
 % Solids: 54.31 Preparation: EPA 3546 (Microwave) Initial/Final: 23.02 g Wet / 2.5 mL
 Batch: BLA0559 Sequence: SLB0086 Calibration: GA00061
 Instrument: ECD7 Column 1: ZB5 Column 2: ZB35

| CAS NO. | COMPOUND | Col # | DILUTION | CONC. (ug/kg dry) | MDL | MRL | Q |
|------------|--------------|-------|----------|-------------------|-----|-----|---|
| 12674-11-2 | Aroclor 1016 | 1 | 1 | 4.0 | 1.6 | 4.0 | U |
| 11104-28-2 | Aroclor 1221 | 1 | 1 | 4.0 | 1.6 | 4.0 | U |
| 11141-16-5 | Aroclor 1232 | 1 | 1 | 4.0 | 1.6 | 4.0 | U |
| 53469-21-9 | Aroclor 1242 | 1 | 1 | 4.0 | 1.6 | 4.0 | U |
| 12672-29-6 | Aroclor 1248 | 1 | 1 | 41.4 | 1.6 | 4.0 | |
| 11097-69-1 | Aroclor 1254 | 1 | 1 | 48.6 | 1.6 | 4.0 | |
| 11096-82-5 | Aroclor 1260 | 1 | 1 | 43.2 | 0.6 | 4.0 | |

| SURROGATES | Col # | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|------------------------------|-------|-------------------|------------------|-------|-----------|---|
| <i>Decachlorobiphenyl</i> | 1 | 7.9986 | 5.64 | 70.5 | 40 - 126 | |
| <i>Tetrachlorometaxylene</i> | 1 | 7.9986 | 5.18 | 64.8 | 44 - 120 | |

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230206.b/02062330ECD7.D ARI ID: 23A0180-03
 Data file 2: /230206.b/230206.b/02062330ECD7.D Client ID:
 Method: \\target\share\chem4\ecd7.i\230206.b\PCB.m Injection Date: 06-FEB-2023 19:43
 Compound Sublist: PCB.sub Report Date: 02/07/2023 10:36
 Instrument, Inj. Vol.: ecd7.i, 2ul Matrix: NONE
 Quant Method: Internal Std Dilution Factor: 1.0

SURROGATES

| ZB5 Col | | ZB35 Col | | | ZB5 | ZB35 | RPD | Compound/Flag | |
|---------|--------|----------|--------|--------|----------|--------|------|---------------|----------------------|
| RT | Shift | Response | RT | Shift | Response | on col | | | on col |
| 5.805 | -0.004 | 141459 | 5.682 | -0.002 | 123178 | 25.9 | 28.1 | 8.3 | Tetrachloro-m-xylene |
| 13.884 | -0.007 | 104233 | 14.112 | -0.004 | 138191 | 28.2 | 28.6 | 1.4 | Decachlorobiphenyl |

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1 | | | |
|--------------------|----------------|-------------|-------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 503318 | 386232 | -23.3 |
| Hexabromobiphenyl | 647433 | 345634 | -46.6 |

| Column 2 | | | |
|--------------------|----------------|-------------|-------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 336911 | 323739 | -3.9 |
| Hexabromobiphenyl | 382032 | 304607 | -20.3 |

* Standard Areas taken from Initial Cal Level 3
 Initial Calibration Date: 24-JAN-2023
 <- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | ZB35 Col | | | | | |
|--------------------------|-------|--------|--------|--------|--------------------------|-------|--------|--------|--------|----------|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount |
| Aroclor-1016 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 |
| Aroclor-1016 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 |
| Aroclor-1016 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 |
| Aroclor-1016 | 4 | --- | | | 0.0 | 4 | --- | | | 0.0 |
| CollAve: <3 Quant Peaks | | | | | Col2Ave: <3 Quant Peaks | | | | | |
| Aroclor-1221 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 |
| Aroclor-1221 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 |
| Aroclor-1221 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 |
| CollAve: <3 Quant Peaks | | | | | Col2Ave: <3 Quant Peaks | | | | | |
| Aroclor-1232 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 |
| Aroclor-1232 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 |
| Aroclor-1232 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 |
| Aroclor-1232 | 4 | --- | | | 0.0 | 4 | --- | | | 0.0 |
| CollAve: <3 Quant Peaks | | | | | Col2Ave: <3 Quant Peaks | | | | | |
| Aroclor-1242 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 |
| Aroclor-1242 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 |
| Aroclor-1242 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 |
| Aroclor-1242 | 4 | --- | | | 0.0 | 4 | --- | | | 0.0 |
| CollAve: <3 Quant Peaks | | | | | Col2Ave: <3 Quant Peaks | | | | | |
| Aroclor-1248 | 1 | 8.394 | -0.011 | 32754 | 169.5 | 1 | 8.298 | -0.005 | 30999 | 211.8 |
| Aroclor-1248 | 2 | 8.563 | -0.017 | 24769 | 100.5 | 2 | 8.704 | -0.006 | 27646 | 175.5 |
| Aroclor-1248 | 3 | 8.982 | -0.017 | 83762 | 177.7 | 3 | 9.137 | -0.015 | 36382 | 189.0 |
| Aroclor-1248 | 4 | 9.285 | -0.009 | 88701 | 380.1 | 4 | 9.531 | -0.045 | 57999 | 243.7 |
| Total CollAve (4 peaks): | | | | 207.0 | Total Col2Ave (4 peaks): | | | | 205.0 | RPD = 1 |
| Corrected Ave (3 peaks): | | | | 149.2 | Corrected Ave (3 peaks): | | | | 192.1 | RPD = 25 |
| Aroclor-1254 | 1 | 9.285 | -0.014 | 88701 | 225.3 | 1 | 9.436 | -0.008 | 68896 | 293.3 |
| Aroclor-1254 | 2 | 9.361 | -0.017 | 41807 | 248.7 | 2 | 9.955 | -0.008 | 34555 | 182.0 |
| Aroclor-1254 | 3 | 9.655 | -0.014 | 63120 | 250.3 | 3 | 10.103 | -0.011 | 123164 | 297.4 |
| Aroclor-1254 | 4 | 9.785 | -0.023 | 122088 | 247.0 | 4 | 10.352 | -0.012 | 149357 | 360.7 |
| Aroclor-1254 | 5 | 10.117 | -0.060 | 151160 | 470.4 | 5 | 10.553 | -0.009 | 104243 | 452.0 |
| Total CollAve (5 peaks): | | | | 209.4 | Total Col2Ave (5 peaks): | | | | 317.1 | RPD = 9 |
| Corrected Ave (4 peaks): | | | | 242.8 | Corrected Ave (4 peaks): | | | | 283.4 | RPD = 15 |
| Aroclor-1260 | 1 | 11.032 | -0.012 | 46212 | 238.3 | 1 | 11.643 | -0.006 | 57545 | 261.9 |
| Aroclor-1260 | 2 | 11.347 | -0.013 | 38468 | 193.0 | 2 | 11.903 | -0.009 | 114415 | 205.8 |
| Aroclor-1260 | 3 | 11.718 | -0.017 | 105709 | 201.4 | 3 | 12.424 | -0.008 | 41456 | 299.2 |
| Aroclor-1260 | 4 | 12.117 | -0.022 | 58553 | 215.9 | 4 | 12.487 | -0.010 | 82543 | 229.4 |
| Aroclor-1260 | 5 | 12.233 | -0.011 | 27411 | 231.9 | NS | --- | | | ---- |
| Total CollAve (5 peaks): | | | | 216.1 | Total Col2Ave (4 peaks): | | | | 249.1 | RPD = 14 |
| Corrected Ave (4 peaks): | | | | 210.6 | Corrected Ave (3 peaks): | | | | 232.4 | RPD = 10 |
| Aroclor-1262 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 |
| Aroclor-1262 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 |
| Aroclor-1262 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 |
| Aroclor-1262 | 4 | --- | | | 0.0 | 4 | --- | | | 0.0 |
| CollAve: <3 Quant Peaks | | | | | Col2Ave: <3 Quant Peaks | | | | | |
| Aroclor-1268 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 |
| Aroclor-1268 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 |
| Aroclor-1268 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 |
| Aroclor-1268 | 4 | --- | | | 0.0 | 4 | --- | | | 0.0 |
| CollAve: <3 Quant Peaks | | | | | Col2Ave: <3 Quant Peaks | | | | | |

Total PCB Area Col1 (5.909 - 13.792) = 2127789 Col1 Total PCB = 0.5 ppm*

Total PCB Area Col2 (5.784 - 14.017) = 2025192 Col2 Total PCB = 0.6 ppm*

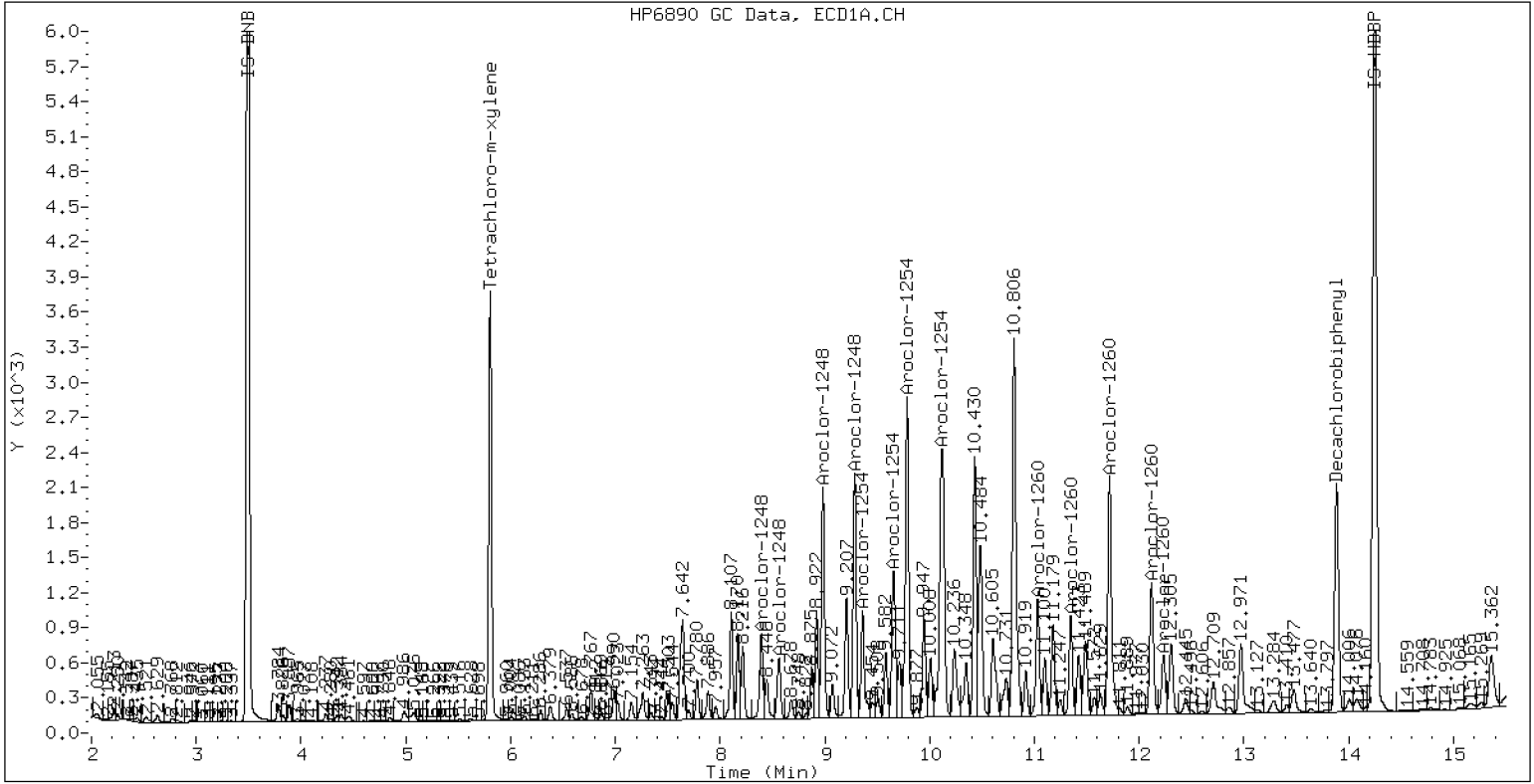
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 23A0180-03

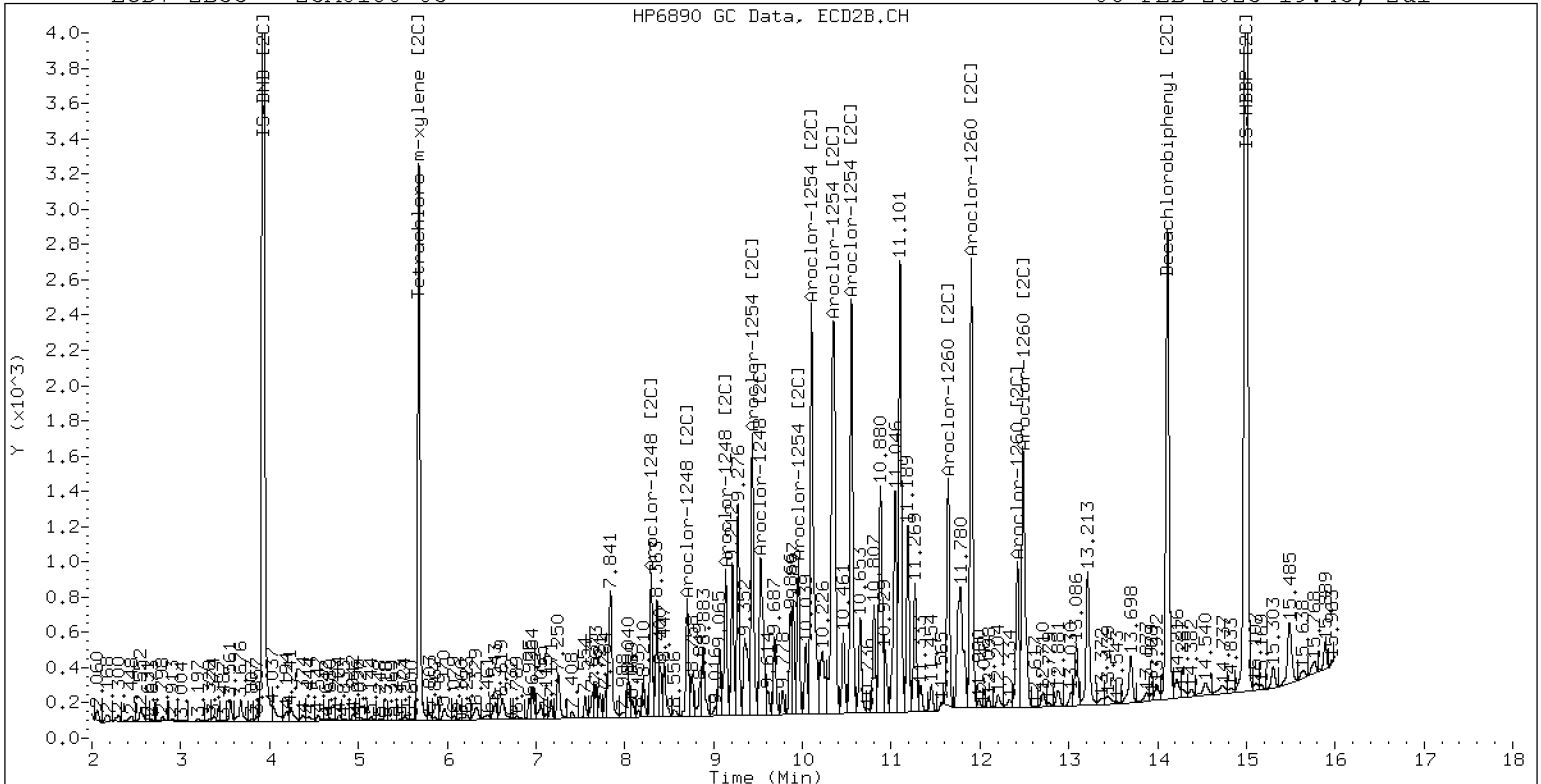
06-FEB-2023 19:43, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 23A0180-03

06-FEB-2023 19:43, 2ul



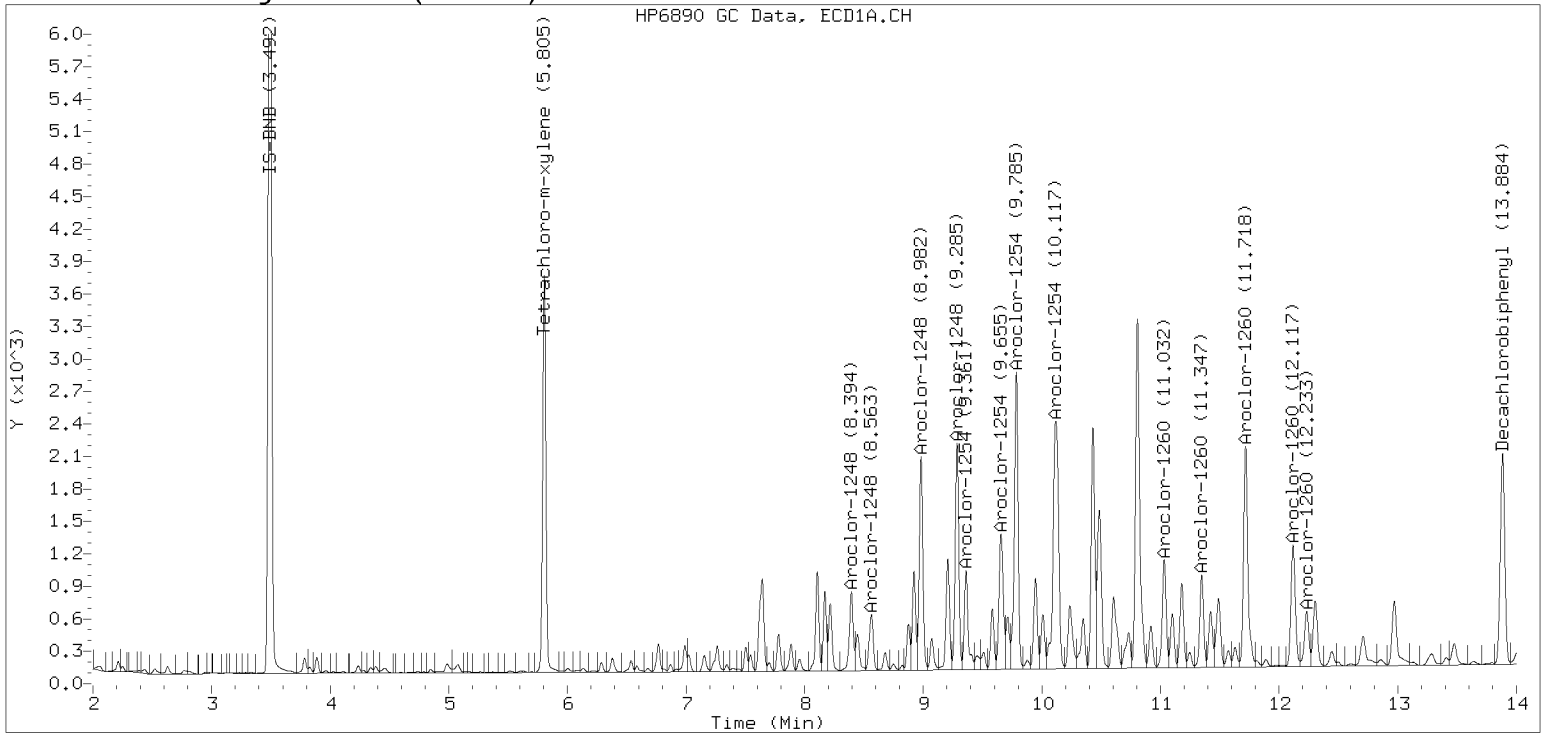
ZB-35 Manual Integration: YES

Manual Peak Adjustment, ZB-5

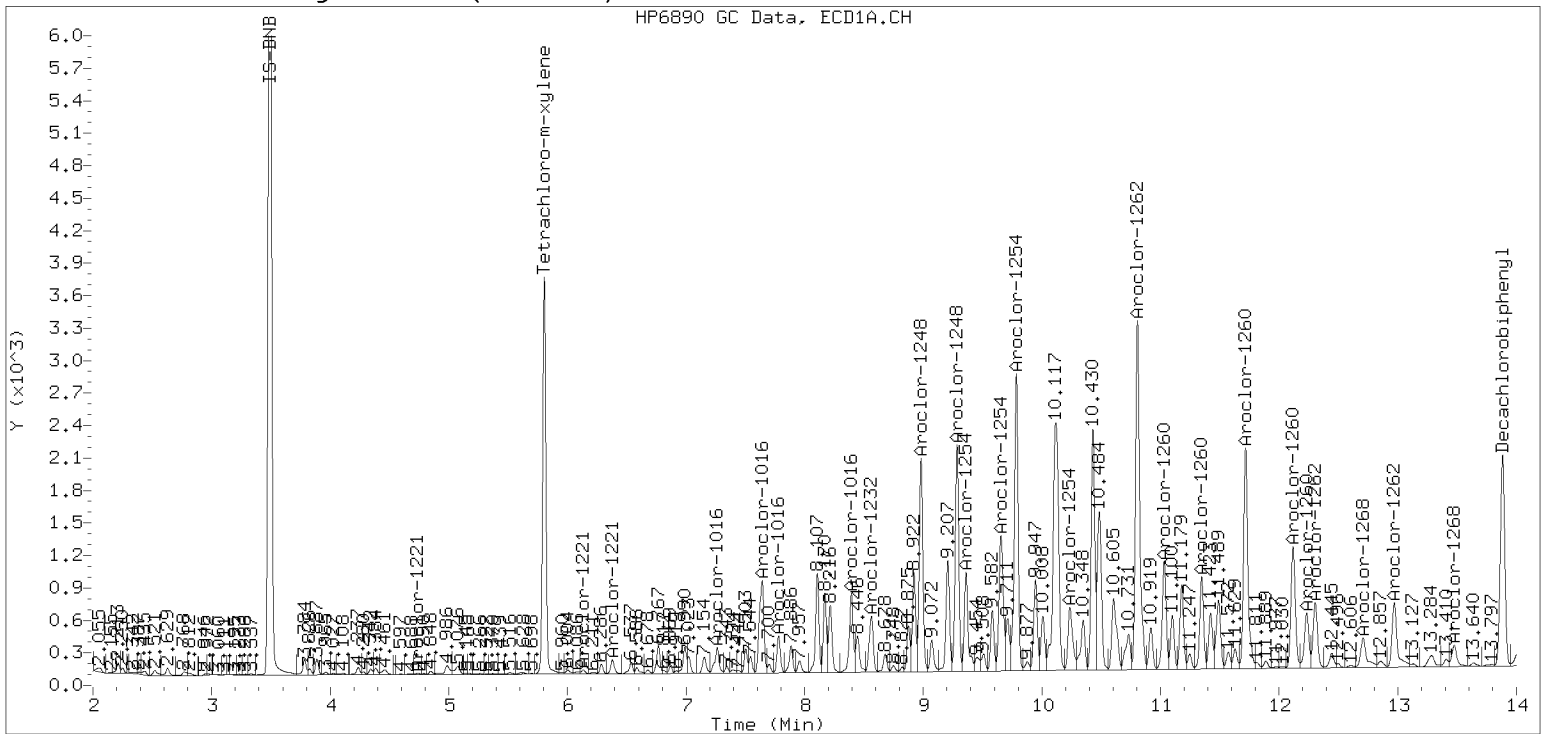
Datafile: ecd7.i/230206.b/02062330ECD7.D

Injection Date: 06-FEB-2023 19:43

Manual Integration (After)



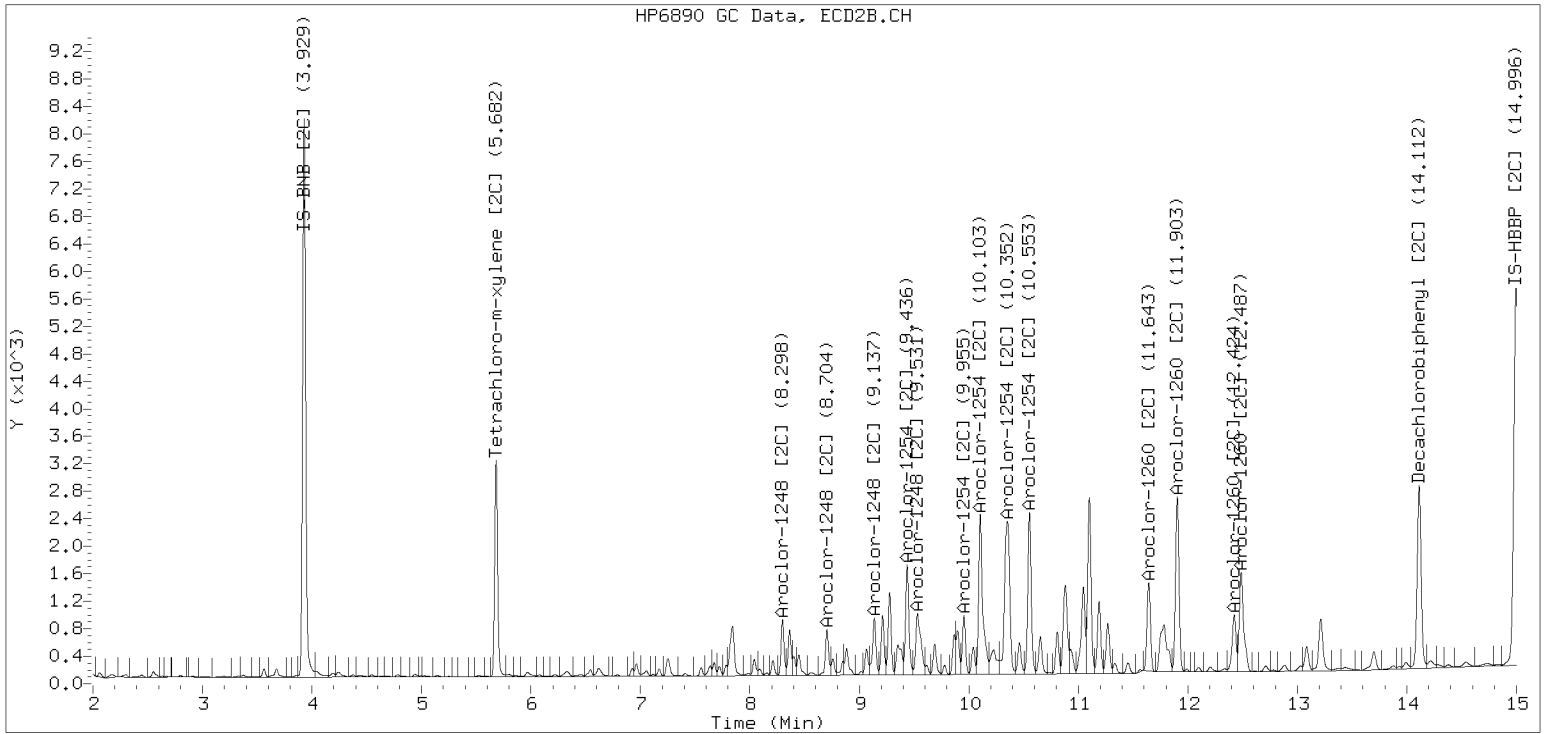
Processed Integration (Before)



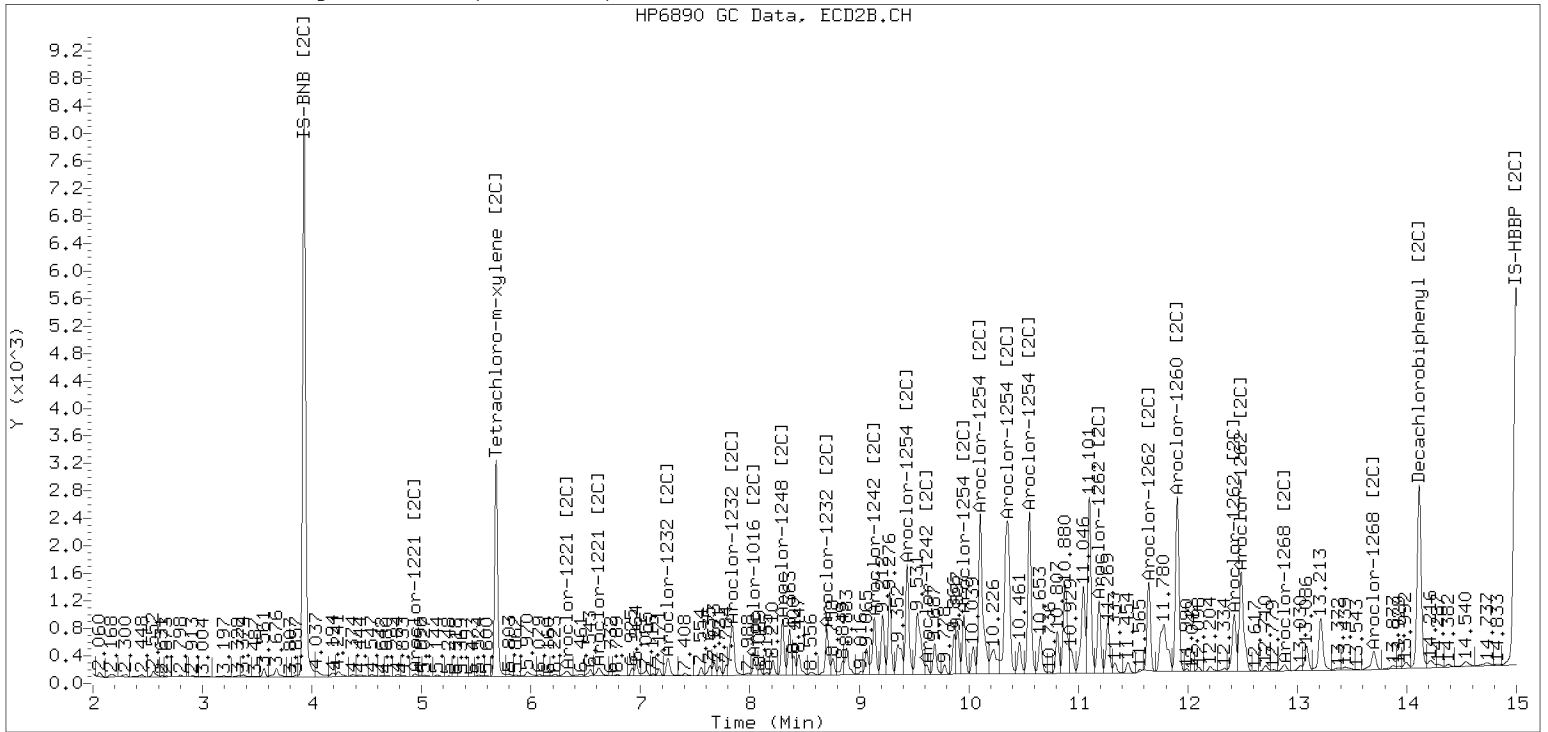
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230206.b/230206.b/02062330ECD7.D Injection Date: 06-FEB-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230204.b/02042342ECD7.D
Data file 2: /230204.b/230204.b/02042342ECD7.D
Method: \\target\share\chem4\ecd7.i\230204.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 23A0180-04
Client ID:
Injection Date: 05-FEB-2023 06:19
Report Date: 02/06/2023 16:58
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

| ZB5 Col | | ZB35 Col | | | ZB5 | ZB35 | RPD | Compound/Flag | |
|---------|--------|----------|--------|--------|----------|--------|------|---------------|----------------------|
| RT | Shift | Response | RT | Shift | Response | on col | | | on col |
| 5.804 | -0.004 | 156054 | 5.679 | -0.004 | 133002 | 24.3 | 27.7 | 13.1 | Tetrachloro-m-xylene |
| 13.884 | -0.005 | 118028 | 14.113 | -0.004 | 184562 | 29.0 | 35.8 | 21.0 | Decachlorobiphenyl |

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | |
|--------------------|----------------|-------------|-------|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 503318 | 454039 | -9.8 |
| Hexabromobiphenyl | 647433 | 381011 | -41.2 |

| Standard Cpnd | Column 2 | | |
|--------------------|----------------|-------------|-------|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 336911 | 354904 | 5.3 |
| Hexabromobiphenyl | 382032 | 325262 | -14.9 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-JAN-2023
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | ZB35 Col | | | | | |
|--------------------------|-------|--------|--------|--------|--------------------------|-------|--------|--------|--------|----------|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount |
| Aroclor-1016 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 |
| Aroclor-1016 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 |
| Aroclor-1016 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 |
| Aroclor-1016 | 4 | --- | | | 0.0 | 4 | --- | | | 0.0 |
| CollAve: <3 Quant Peaks | | | | | Col2Ave: <3 Quant Peaks | | | | | |
| Aroclor-1221 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 |
| Aroclor-1221 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 |
| Aroclor-1221 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 |
| CollAve: <3 Quant Peaks | | | | | Col2Ave: <3 Quant Peaks | | | | | |
| Aroclor-1232 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 |
| Aroclor-1232 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 |
| Aroclor-1232 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 |
| Aroclor-1232 | 4 | --- | | | 0.0 | 4 | --- | | | 0.0 |
| CollAve: <3 Quant Peaks | | | | | Col2Ave: <3 Quant Peaks | | | | | |
| Aroclor-1242 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 |
| Aroclor-1242 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 |
| Aroclor-1242 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 |
| Aroclor-1242 | 4 | --- | | | 0.0 | 4 | --- | | | 0.0 |
| CollAve: <3 Quant Peaks | | | | | Col2Ave: <3 Quant Peaks | | | | | |
| Aroclor-1248 | 1 | 8.393 | -0.007 | 54178 | 238.5 | 1 | 8.296 | -0.006 | 45674 | 284.7 |
| Aroclor-1248 | 2 | 8.562 | -0.011 | 44812 | 154.7 | 2 | 8.701 | -0.007 | 50234 | 290.9 |
| Aroclor-1248 | 3 | 8.980 | -0.013 | 130504 | 235.5 | 3 | 9.134 | -0.015 | 59796 | 283.4 |
| Aroclor-1248 | 4 | 9.283 | -0.008 | 126234 | 460.2 | 4 | 9.529 | -0.043 | 52269 | 200.3 |
| Total CollAve (4 peaks): | | | | 272.2 | Total Col2Ave (4 peaks): | | | | 264.8 | RPD = 3 |
| Corrected Ave (3 peaks): | | | | 209.6 | Corrected Ave (3 peaks): | | | | 256.1 | RPD = 20 |
| Aroclor-1254 | 1 | 9.283 | -0.011 | 126234 | 272.8 | 1 | 9.434 | -0.008 | 98385 | 382.1 |
| Aroclor-1254 | 2 | 9.358 | -0.011 | 51768 | 262.0 | 2 | 9.953 | -0.009 | 55599 | 267.2 |
| Aroclor-1254 | 3 | 9.652 | -0.008 | 84510 | 285.0 | 3 | 10.101 | -0.011 | 167522 | 369.0 |
| Aroclor-1254 | 4 | 9.783 | -0.014 | 171709 | 295.6 | 4 | 10.348 | -0.014 | 189133 | 416.6 |
| Aroclor-1254 | 5 | 10.119 | -0.037 | 206596 | 546.9 | 5 | 10.551 | -0.009 | 127209 | 503.1 |
| Total CollAve (5 peaks): | | | | 332.5 | Total Col2Ave (5 peaks): | | | | 387.6 | RPD = 15 |
| Corrected Ave (4 peaks): | | | | 278.9 | Corrected Ave (4 peaks): | | | | 358.7 | RPD = 25 |
| Aroclor-1260 | 1 | 11.030 | -0.009 | 59941 | 280.4 | 1 | 11.640 | -0.008 | 73114 | 311.6 |
| Aroclor-1260 | 2 | 11.346 | -0.010 | 54977 | 250.2 | 2 | 11.902 | -0.009 | 137105 | 231.0 |
| Aroclor-1260 | 3 | 11.716 | -0.012 | 141961 | 245.4 | 3 | 12.421 | -0.009 | 50906 | 344.0 |
| Aroclor-1260 | 4 | 12.116 | -0.015 | 77667 | 259.8 | 4 | 12.484 | -0.011 | 97431 | 253.6 |
| Aroclor-1260 | 5 | 12.232 | -0.008 | 32629 | 250.4 | NS | --- | | | ---- |
| Total CollAve (5 peaks): | | | | 257.2 | Total Col2Ave (4 peaks): | | | | 285.0 | RPD = 10 |
| Corrected Ave (4 peaks): | | | | 251.5 | Corrected Ave (3 peaks): | | | | 265.4 | RPD = 5 |
| Aroclor-1262 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 |
| Aroclor-1262 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 |
| Aroclor-1262 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 |
| Aroclor-1262 | 4 | --- | | | 0.0 | 4 | --- | | | 0.0 |
| CollAve: <3 Quant Peaks | | | | | Col2Ave: <3 Quant Peaks | | | | | |
| Aroclor-1268 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 |
| Aroclor-1268 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 |
| Aroclor-1268 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 |
| Aroclor-1268 | 4 | --- | | | 0.0 | 4 | --- | | | 0.0 |
| CollAve: <3 Quant Peaks | | | | | Col2Ave: <3 Quant Peaks | | | | | |

Total PCB Area Col1 (5.907 - 13.789) = 6593075 Col1 Total PCB = 1.2 ppm*
Total PCB Area Col2 (5.783 - 14.016) = 4769698 Col2 Total PCB = 1.3 ppm*

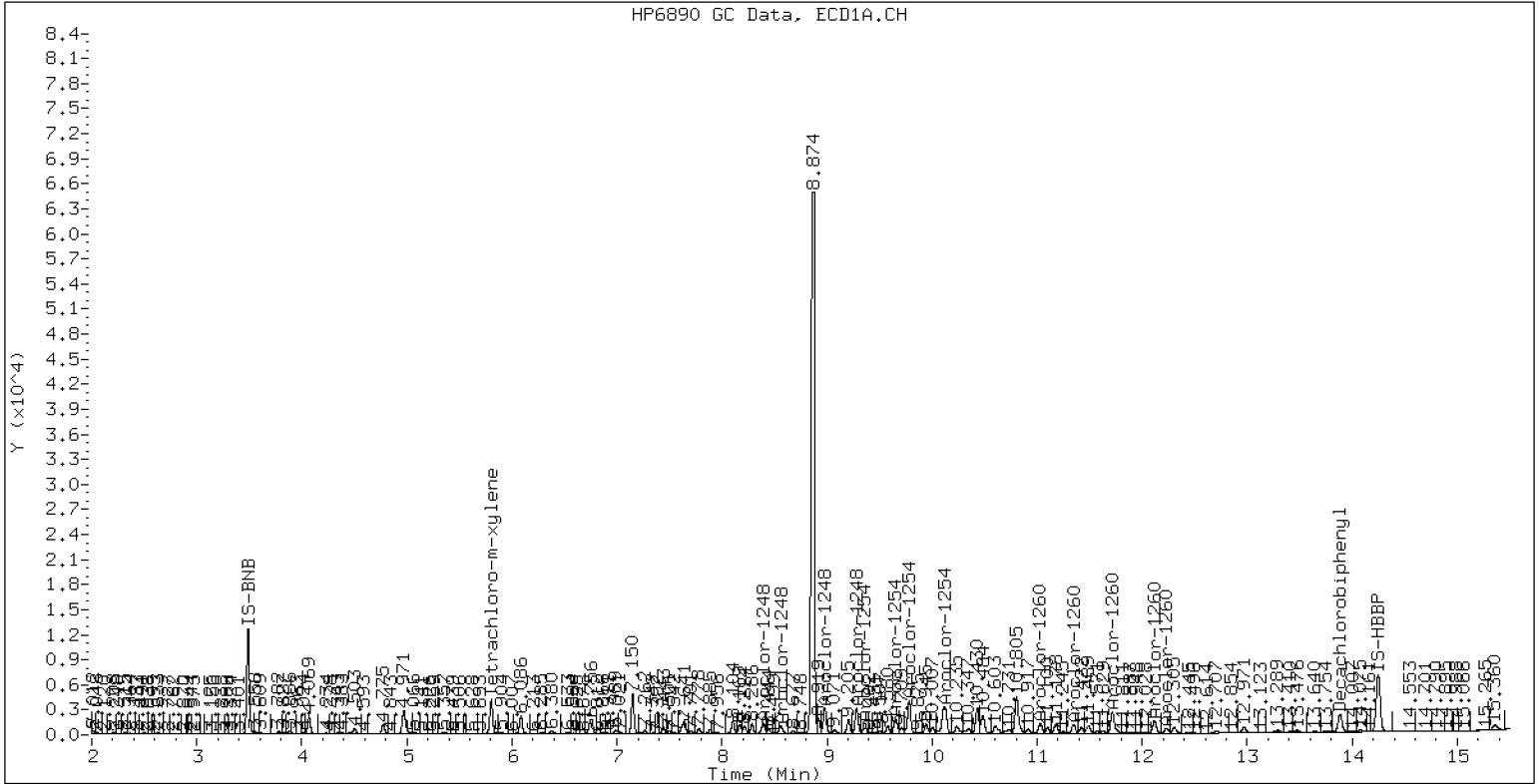
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 23A0180-04

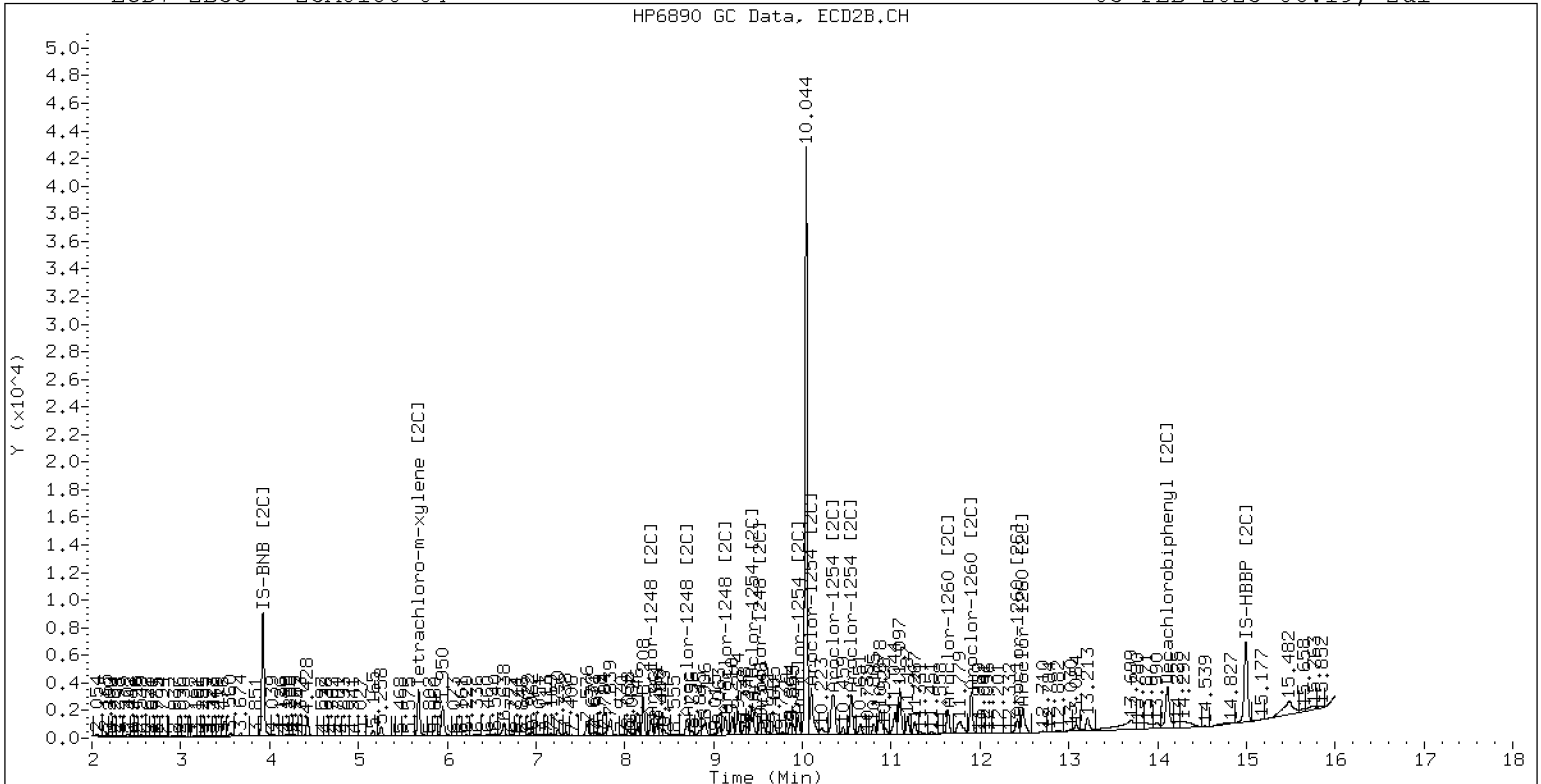
05-FEB-2023 06:19, 2u1



ZB-5 Manual Integration: YES

ECD7-ZB35 23A0180-04

05-FEB-2023 06:19, 2u1



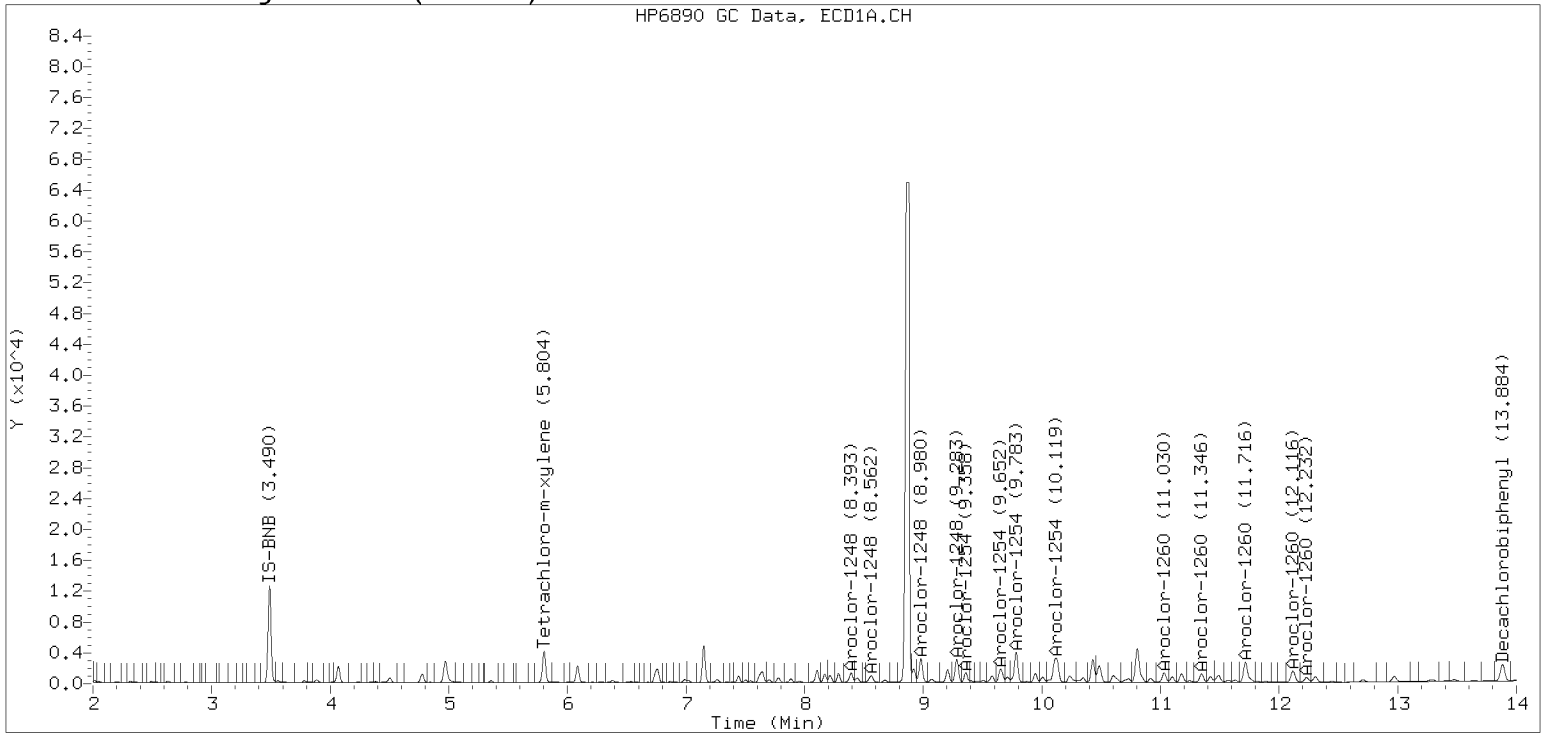
ZB-35 Manual Integration: YES

Manual Peak Adjustment, ZB-5

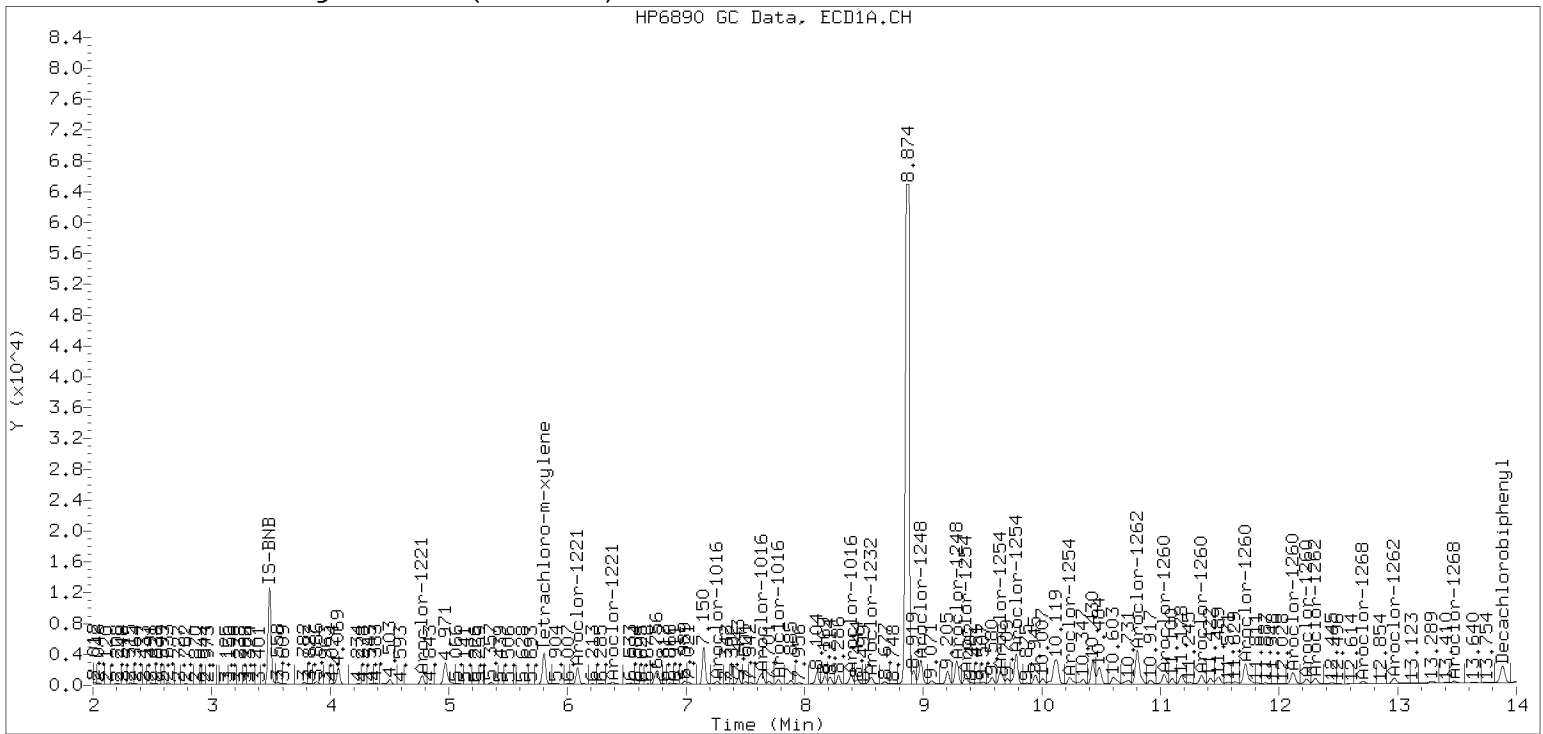
Datafile: ecd7.i/230204.b/02042342ECD7.D

Injection Date: 05-FEB-2023 06:19

Manual Integration (After)



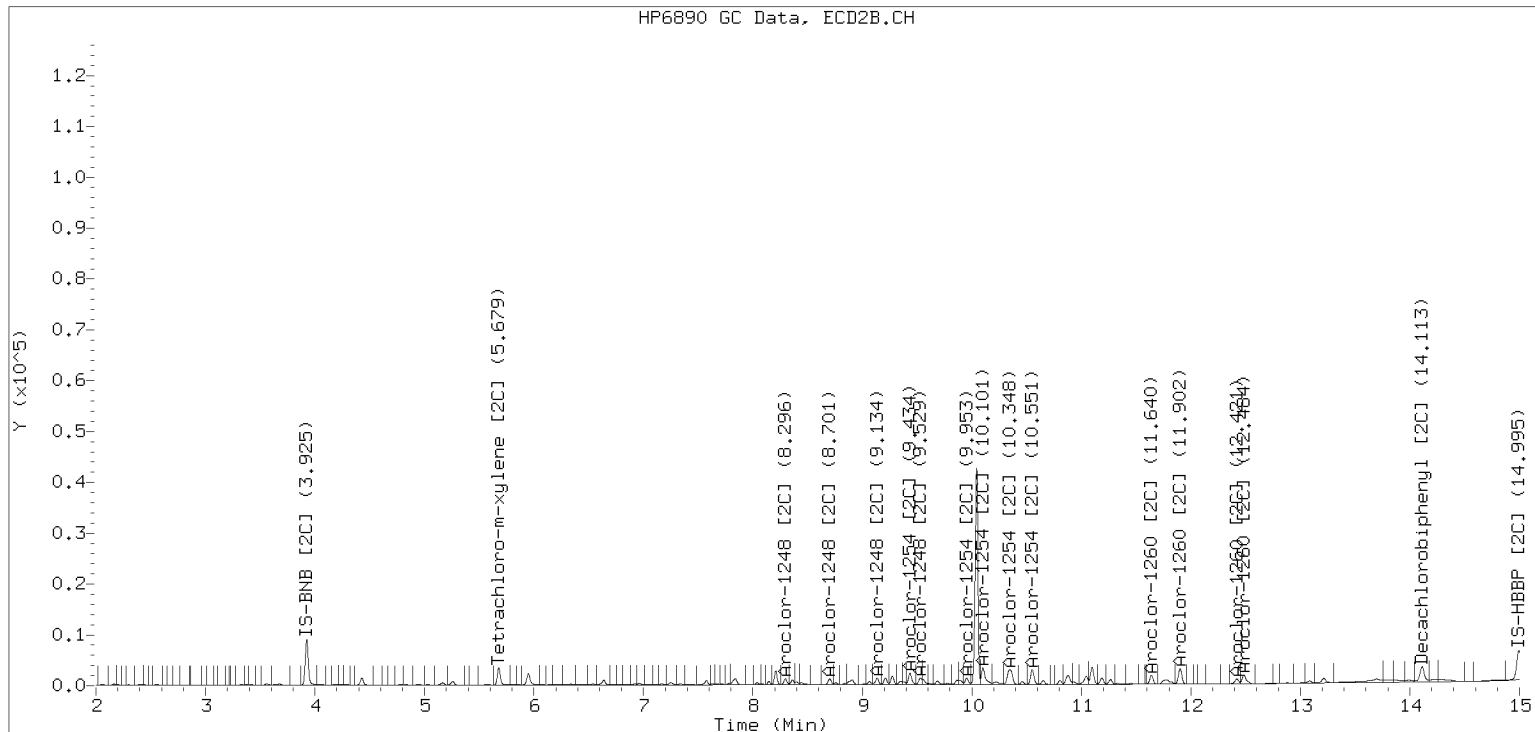
Processed Integration (Before)



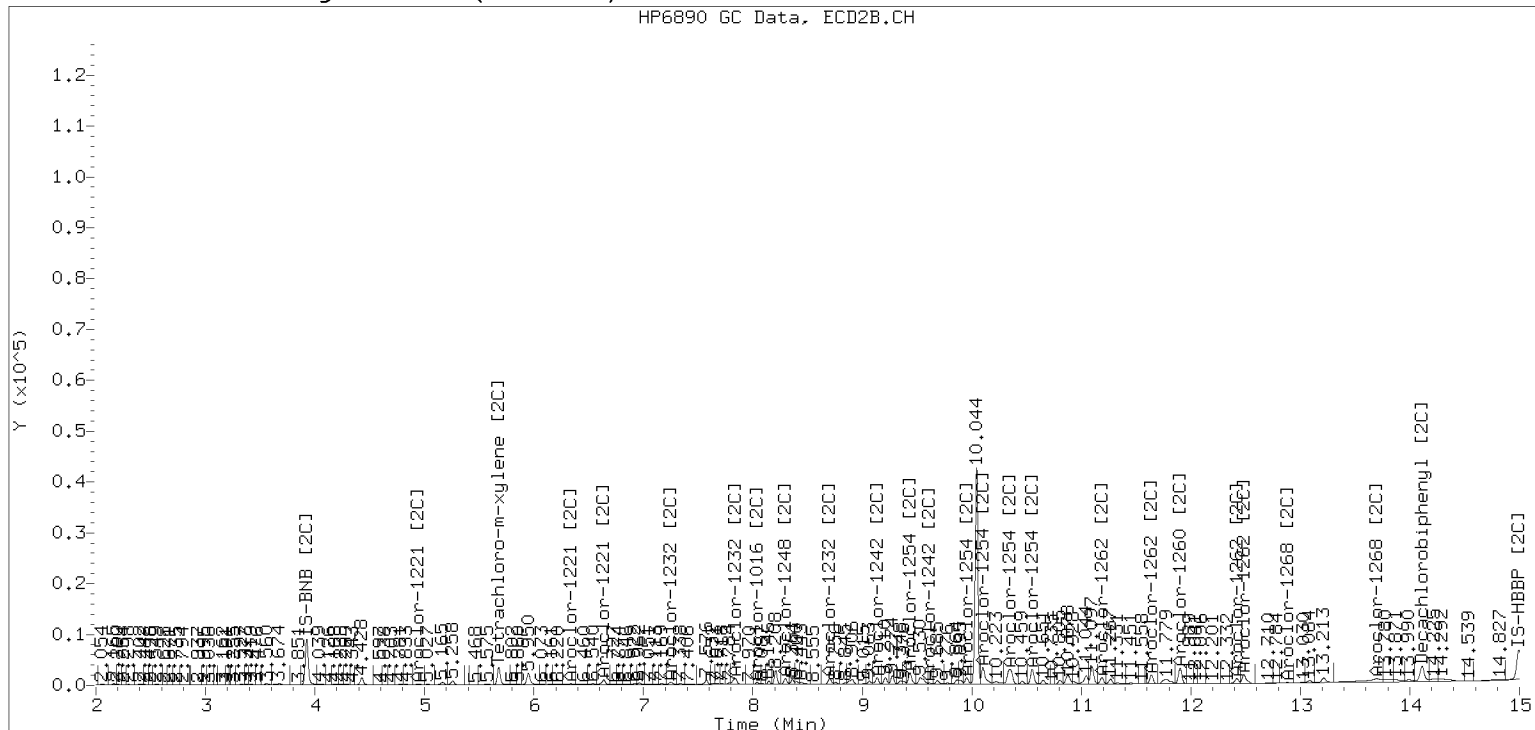
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230204.b/230204.b/02042342ECD7.D Injection Date: 05-FEB-2023

Manual Integration (After)



Processed Integration (Before)





ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Matrix: Solid

Laboratory ID: 23A0180-05 A

File ID: 02042343ECD7.D

Sampled: 01/10/23 09:39

Prepared: 01/26/23 14:06

Analyzed: 02/05/23 06:41

% Solids: 55.11

Preparation: EPA 3546 (Microwave)

Initial/Final: 22.7 g Wet / 2.5 mL

Batch: BLA0559

Sequence: SLB0084

Calibration: GA00061

Instrument: ECD7

Column 1: ZB5

Column 2: ZB35

| CAS NO. | COMPOUND | Col # | DILUTION | CONC. (ug/kg dry) | MDL | MRL | Q |
|------------|--------------|-------|----------|-------------------|-----|-----|---|
| 12674-11-2 | Aroclor 1016 | 1 | 1 | 4.0 | 1.6 | 4.0 | U |
| 11104-28-2 | Aroclor 1221 | 1 | 1 | 4.0 | 1.6 | 4.0 | U |
| 11141-16-5 | Aroclor 1232 | 1 | 1 | 4.0 | 1.6 | 4.0 | U |
| 53469-21-9 | Aroclor 1242 | 1 | 1 | 4.0 | 1.6 | 4.0 | U |
| 12672-29-6 | Aroclor 1248 | 2 | 1 | 76.5 | 1.6 | 4.0 | |
| 11097-69-1 | Aroclor 1254 | 2 | 1 | 105 | 1.6 | 4.0 | |
| 11096-82-5 | Aroclor 1260 | 2 | 1 | 67.6 | 0.6 | 4.0 | |

| SURROGATES | Col # | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|------------------------------|-------|-------------------|------------------|-------|-----------|---|
| <i>Decachlorobiphenyl</i> | 1 | 7.9936 | 5.72 | 71.6 | 40 - 126 | |
| <i>Tetrachlorometaxylene</i> | 1 | 7.9936 | 4.78 | 59.8 | 44 - 120 | |
| <i>Decachlorobiphenyl</i> | 2 | 7.9936 | 5.92 | 74.1 | 40 - 126 | |
| <i>Tetrachlorometaxylene</i> | 2 | 7.9936 | 5.66 | 70.8 | 44 - 120 | |

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230204.b/02042343ECD7.D
Data file 2: /230204.b/230204.b/02042343ECD7.D
Method: \\target\share\chem4\ecd7.i\230204.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 23A0180-05
Client ID:
Injection Date: 05-FEB-2023 06:41
Report Date: 02/06/2023 16:58
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

| ZB5 Col | | ZB35 Col | | | ZB5 | ZB35 | RPD | Compound/Flag | |
|---------|--------|----------|--------|--------|----------|--------|------|---------------|----------------------|
| RT | Shift | Response | RT | Shift | Response | on col | | | on col |
| 5.805 | -0.003 | 150296 | 5.681 | -0.002 | 131624 | 23.9 | 28.3 | 16.9 | Tetrachloro-m-xylene |
| 13.884 | -0.004 | 116315 | 14.111 | -0.005 | 158243 | 28.6 | 29.6 | 3.4 | Decachlorobiphenyl |

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | |
|--------------------|----------------|-------------|-------|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 503318 | 444258 | -11.7 |
| Hexabromobiphenyl | 647433 | 379937 | -41.3 |

| Standard Cpnd | Column 2 | | |
|--------------------|----------------|-------------|-------|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 336911 | 343558 | 2.0 |
| Hexabromobiphenyl | 382032 | 336568 | -11.9 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-JAN-2023
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | ZB35 Col | | | | | |
|--------------------------|-------|--------|--------|--------|--------------------------|-------|--------|--------|--------|----------|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount |
| Aroclor-1016 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 |
| Aroclor-1016 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 |
| Aroclor-1016 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 |
| Aroclor-1016 | 4 | --- | | | 0.0 | 4 | --- | | | 0.0 |
| CollAve: <3 Quant Peaks | | | | | Col2Ave: <3 Quant Peaks | | | | | |
| Aroclor-1221 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 |
| Aroclor-1221 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 |
| Aroclor-1221 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 |
| CollAve: <3 Quant Peaks | | | | | Col2Ave: <3 Quant Peaks | | | | | |
| Aroclor-1232 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 |
| Aroclor-1232 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 |
| Aroclor-1232 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 |
| Aroclor-1232 | 4 | --- | | | 0.0 | 4 | --- | | | 0.0 |
| CollAve: <3 Quant Peaks | | | | | Col2Ave: <3 Quant Peaks | | | | | |
| Aroclor-1242 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 |
| Aroclor-1242 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 |
| Aroclor-1242 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 |
| Aroclor-1242 | 4 | --- | | | 0.0 | 4 | --- | | | 0.0 |
| CollAve: <3 Quant Peaks | | | | | Col2Ave: <3 Quant Peaks | | | | | |
| Aroclor-1248 | 1 | 8.394 | -0.006 | 61372 | 276.2 | 1 | 8.296 | -0.006 | 56254 | 362.2 |
| Aroclor-1248 | 2 | 8.562 | -0.010 | 54889 | 193.6 | 2 | 8.701 | -0.007 | 59400 | 355.4 |
| Aroclor-1248 | 3 | 8.980 | -0.013 | 164240 | 302.9 | 3 | 9.134 | -0.015 | 75259 | 368.5 |
| Aroclor-1248 | 4 | 9.284 | -0.007 | 172116 | 641.2 | 4 | 9.529 | -0.043 | 112631 | 445.9 |
| Total CollAve (4 peaks): | | | | 353.5 | Total Col2Ave (4 peaks): | | | | 383.0 | RPD = 8 |
| Corrected Ave (3 peaks): | | | | 257.5 | Corrected Ave (3 peaks): | | | | 362.0 | RPD = 34 |
| Aroclor-1254 | 1 | 9.284 | -0.010 | 172116 | 380.1 | 1 | 9.434 | -0.008 | 129138 | 518.1 |
| Aroclor-1254 | 2 | 9.359 | -0.010 | 71952 | 372.2 | 2 | 9.953 | -0.009 | 65852 | 326.9 |
| Aroclor-1254 | 3 | 9.652 | -0.008 | 112478 | 387.7 | 3 | 10.101 | -0.012 | 222424 | 506.1 |
| Aroclor-1254 | 4 | 9.784 | -0.014 | 230491 | 405.5 | 4 | 10.348 | -0.014 | 257631 | 586.2 |
| Aroclor-1254 | 5 | 10.119 | -0.036 | 263340 | 712.4 | 5 | 10.551 | -0.010 | 170572 | 696.9 |
| Total CollAve (5 peaks): | | | | 451.6 | Total Col2Ave (5 peaks): | | | | 526.8 | RPD = 15 |
| Corrected Ave (4 peaks): | | | | 386.4 | Corrected Ave (4 peaks): | | | | 484.3 | RPD = 23 |
| Aroclor-1260 | 1 | 11.031 | -0.008 | 71632 | 336.0 | 1 | 11.640 | -0.008 | 96162 | 396.0 |
| Aroclor-1260 | 2 | 11.347 | -0.009 | 64224 | 293.1 | 2 | 11.902 | -0.009 | 175863 | 286.3 |
| Aroclor-1260 | 3 | 11.717 | -0.011 | 166959 | 289.4 | 3 | 12.421 | -0.010 | 56125 | 366.6 |
| Aroclor-1260 | 4 | 12.117 | -0.014 | 97342 | 326.6 | 4 | 12.485 | -0.010 | 121141 | 304.7 |
| Aroclor-1260 | 5 | 12.233 | -0.007 | 40476 | 311.5 | NS | --- | | | --- |
| Total CollAve (5 peaks): | | | | 311.3 | Total Col2Ave (4 peaks): | | | | 338.4 | RPD = 8 |
| Corrected Ave (4 peaks): | | | | 305.2 | Corrected Ave (3 peaks): | | | | 319.2 | RPD = 4 |
| Aroclor-1262 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 |
| Aroclor-1262 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 |
| Aroclor-1262 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 |
| Aroclor-1262 | 4 | --- | | | 0.0 | 4 | --- | | | 0.0 |
| CollAve: <3 Quant Peaks | | | | | Col2Ave: <3 Quant Peaks | | | | | |
| Aroclor-1268 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 |
| Aroclor-1268 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 |
| Aroclor-1268 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 |
| Aroclor-1268 | 4 | --- | | | 0.0 | 4 | --- | | | 0.0 |
| CollAve: <3 Quant Peaks | | | | | Col2Ave: <3 Quant Peaks | | | | | |

Total PCB Area Col1 (5.907 - 13.789) = 4093316 Col1 Total PCB = 0.8 ppm*

Total PCB Area Col2 (5.783 - 14.016) = 3678197 Col2 Total PCB = 1.0 ppm*

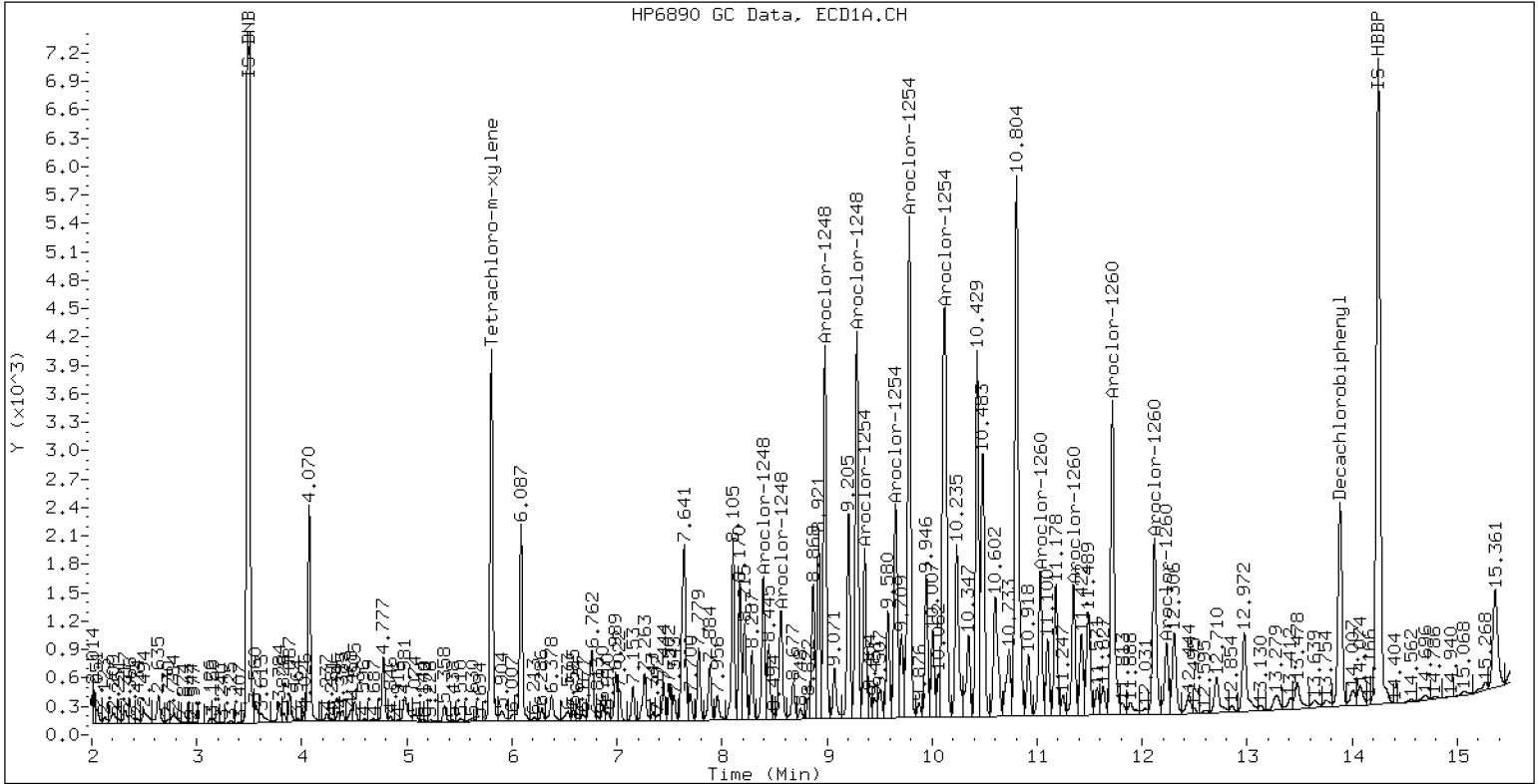
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 23A0180-05

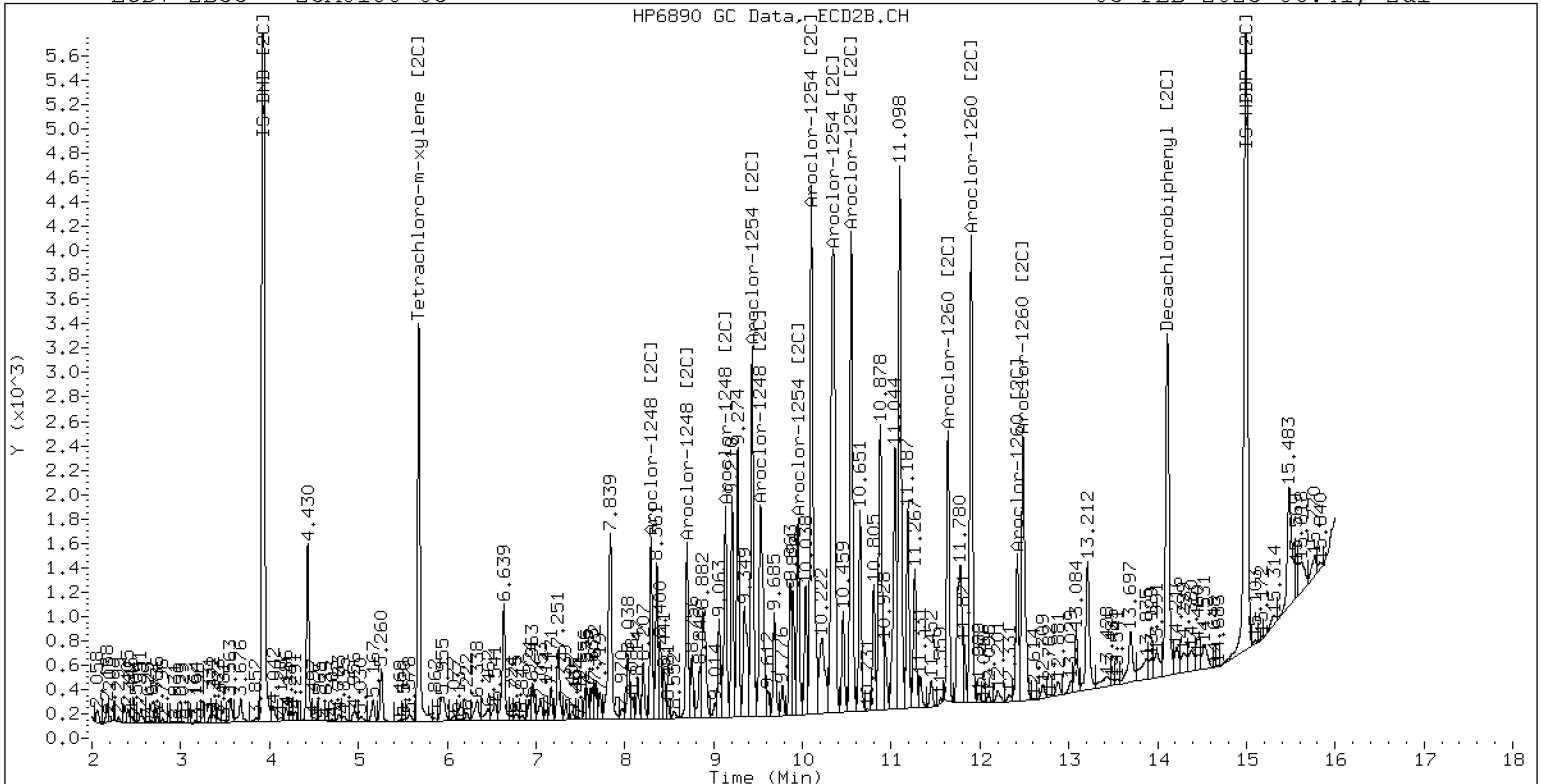
05-FEB-2023 06:41, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 23A0180-05

05-FEB-2023 06:41, 2ul



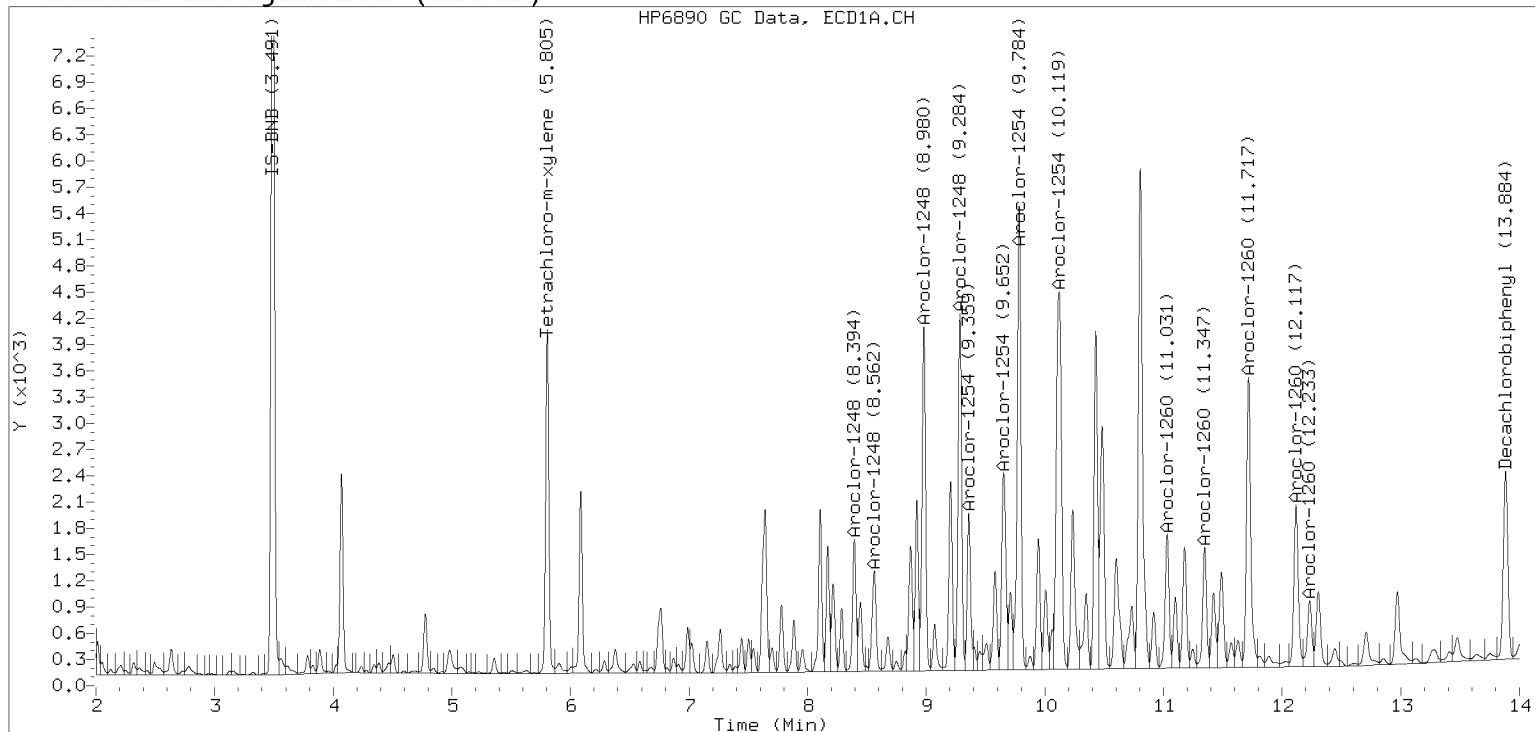
ZB-35 Manual Integration: YES

Manual Peak Adjustment, ZB-5

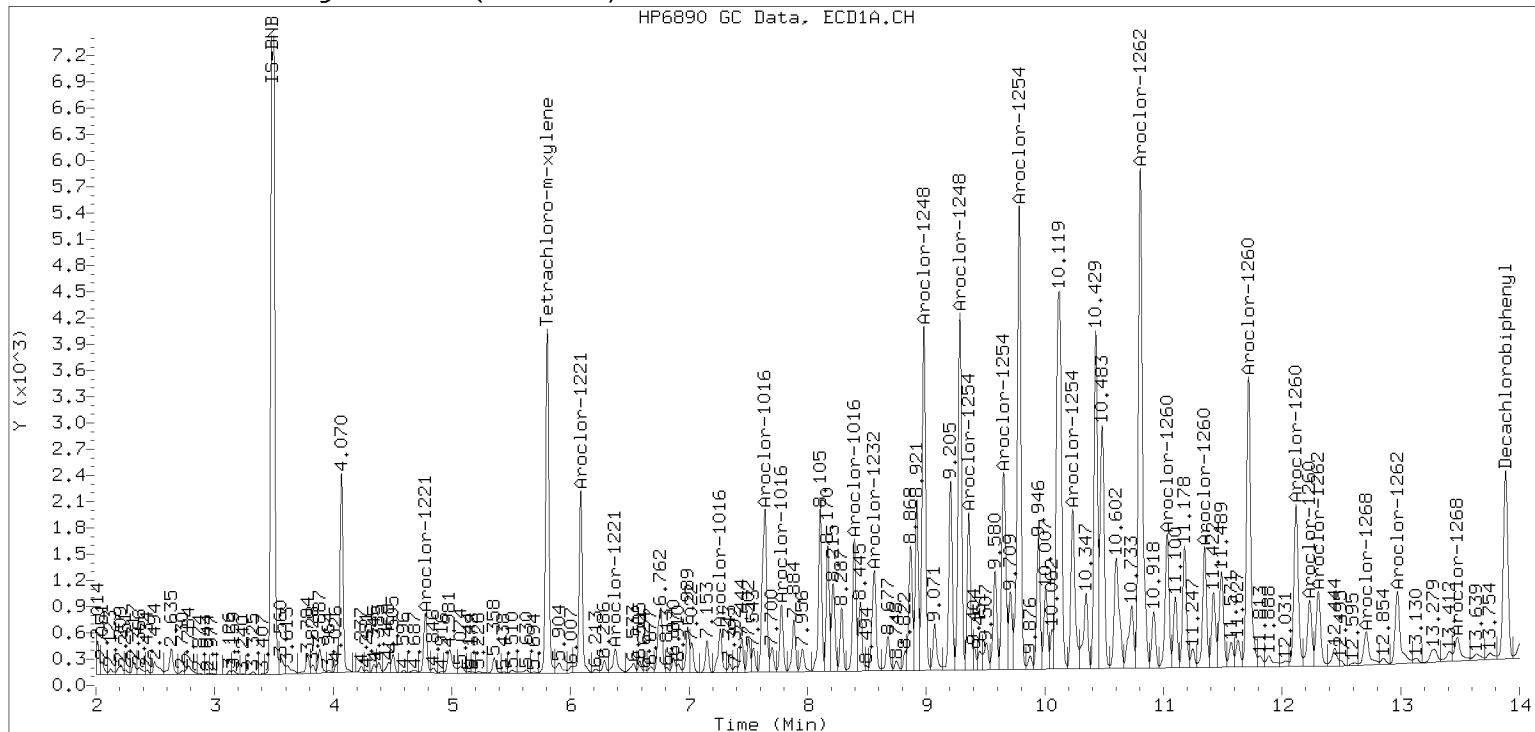
Datafile: ecd7.i/230204.b/02042343ECD7.D

Injection Date: 05-FEB-2023 06:41

Manual Integration (After)



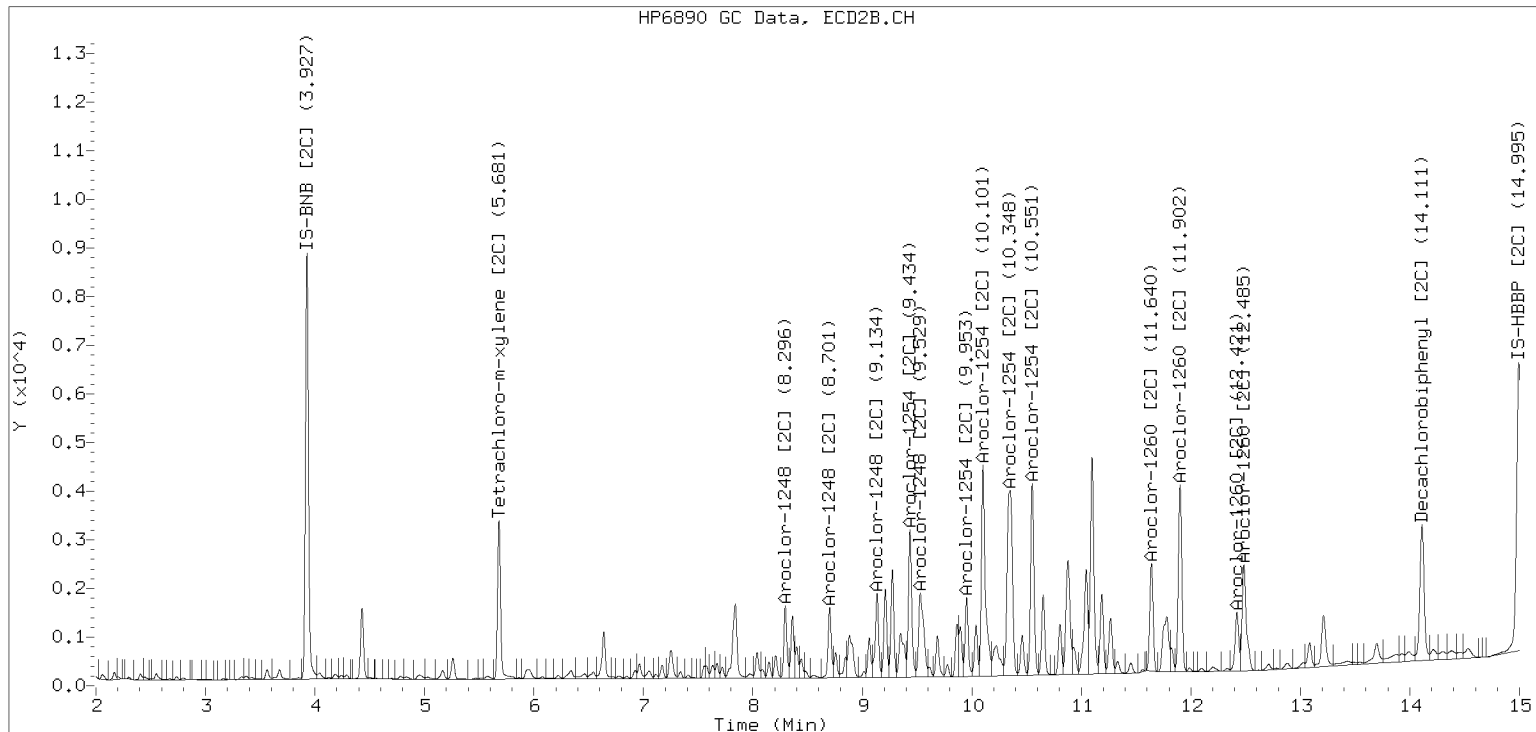
Processed Integration (Before)



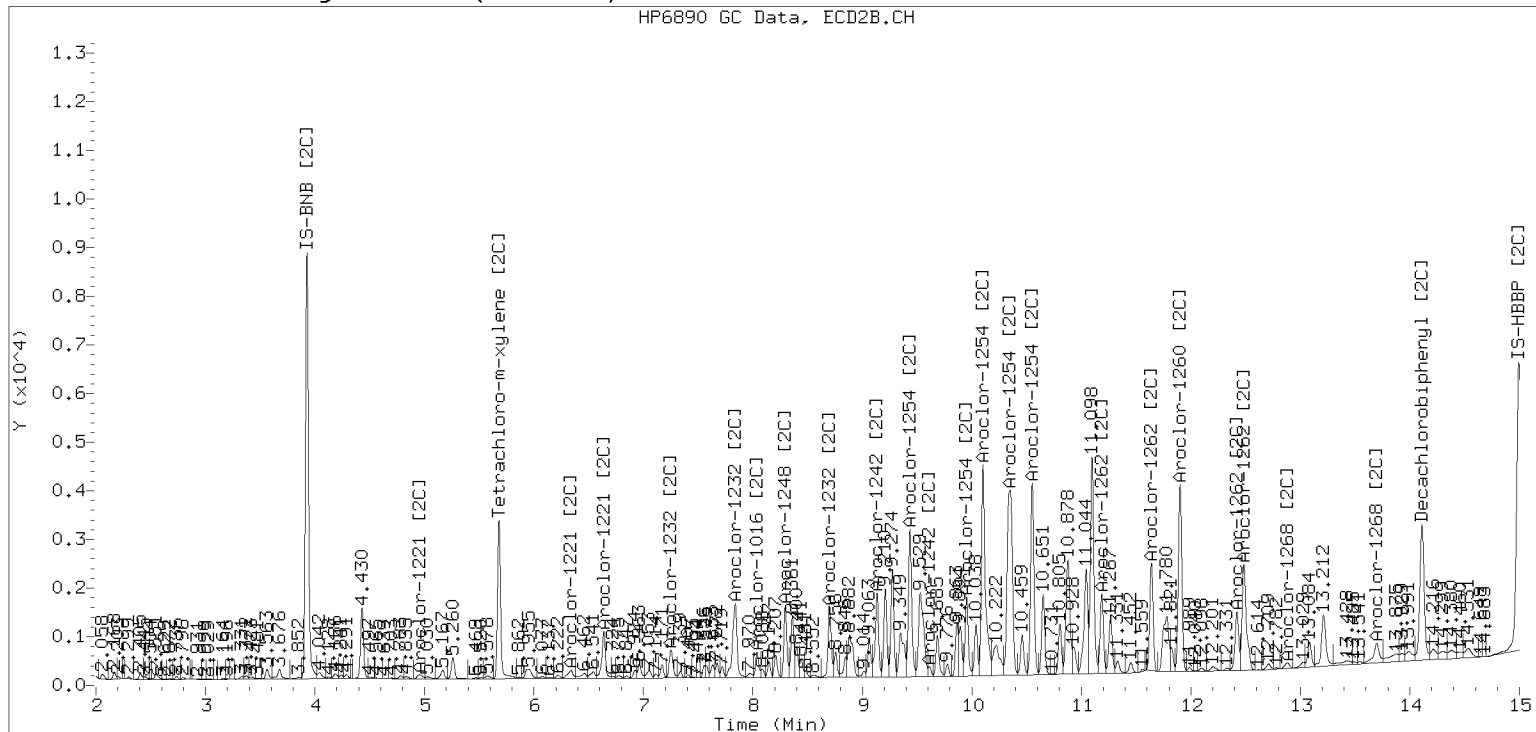
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230204.b/230204.b/02042343ECD7.D Injection Date: 05-FEB-2023

Manual Integration (After)



Processed Integration (Before)





ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Matrix: Solid

Laboratory ID: 23A0180-06 A

File ID: 02072304ECD7.D

Sampled: 01/10/23 10:10

Prepared: 01/26/23 14:06

Analyzed: 02/07/23 13:44

% Solids: 55.94

Preparation: EPA 3546 (Microwave)

Initial/Final: 22.4 g Wet / 2.5 mL

Batch: BLA0559

Sequence: SLB0109

Calibration: GA00061

Instrument: ECD7

Column 1: ZB5

Column 2: ZB35

| CAS NO. | COMPOUND | Col # | DILUTION | CONC. (ug/kg dry) | MDL | MRL | Q |
|------------|--------------|-------|----------|-------------------|-----|------|---|
| 12674-11-2 | Aroclor 1016 | 1 | 5 | 20.0 | 7.8 | 20.0 | U |
| 11104-28-2 | Aroclor 1221 | 1 | 5 | 20.0 | 7.8 | 20.0 | U |
| 11141-16-5 | Aroclor 1232 | 1 | 5 | 20.0 | 7.8 | 20.0 | U |
| 53469-21-9 | Aroclor 1242 | 1 | 5 | 20.0 | 7.8 | 20.0 | U |
| 12672-29-6 | Aroclor 1248 | 1 | 5 | 221 | 7.8 | 20.0 | D |
| 11097-69-1 | Aroclor 1254 | 2 | 5 | 304 | 7.8 | 20.0 | D |
| 11096-82-5 | Aroclor 1260 | 2 | 5 | 149 | 2.9 | 20.0 | D |

| SURROGATES | Col # | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|------------------------------|-------|-------------------|------------------|-------|-----------|---|
| <i>Decachlorobiphenyl</i> | 1 | 7.9805 | 6.65 | 83.4 | 40 - 126 | |
| <i>Tetrachlorometaxylene</i> | 1 | 7.9805 | 6.25 | 78.3 | 44 - 120 | |
| <i>Decachlorobiphenyl</i> | 2 | 7.9805 | 6.19 | 77.5 | 40 - 126 | |
| <i>Tetrachlorometaxylene</i> | 2 | 7.9805 | 7.06 | 88.4 | 44 - 120 | |

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230207.b/02072304ECD7.D
Data file 2: /230207.b/230207.b/02072304ECD7.D
Method: \\target\share\chem4\ecd7.i\230207.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 23A0180-06RE1
Client ID:
Injection Date: 07-FEB-2023 13:44
Report Date: 02/08/2023 11:48
Matrix: NONE
Dilution Factor: 5.0

SURROGATES

| ZB5 Col | | ZB35 Col | | ZB5 | ZB35 | RPD | Compound/Flag | |
|---------|----------------|----------|----------------|--------|--------|-----|---------------|----------------------|
| RT | Shift Response | RT | Shift Response | on col | on col | | | |
| 5.807 | -0.002 | 34986 | 5.684 -0.000 | 31750 | 6.3 | 7.1 | 12.2 | Tetrachloro-m-xylene |
| 13.884 | -0.004 | 33791 | 14.112 -0.005 | 38390 | 6.7 | 6.2 | 7.3 | Decachlorobiphenyl |

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1 | | | |
|--------------------|----------------|-------------|-------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 503318 | 395259 | -21.5 |
| Hexabromobiphenyl | 647433 | 473757 | -26.8 |
| Column 2 | | | |
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 336911 | 332039 | -1.4 |
| Hexabromobiphenyl | 382032 | 390072 | 2.1 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-JAN-2023
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | ZB35 Col | | | | | |
|--------------------------|-------|--------|--------|--------|--------------------------|-------|--------|--------|--------|----------|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount |
| Aroclor-1016 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 |
| Aroclor-1016 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 |
| Aroclor-1016 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 |
| Aroclor-1016 | 4 | --- | | | 0.0 | 4 | --- | | | 0.0 |
| CollAve: <3 Quant Peaks | | | | | Col2Ave: <3 Quant Peaks | | | | | |
| Aroclor-1221 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 |
| Aroclor-1221 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 |
| Aroclor-1221 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 |
| CollAve: <3 Quant Peaks | | | | | Col2Ave: <3 Quant Peaks | | | | | |
| Aroclor-1232 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 |
| Aroclor-1232 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 |
| Aroclor-1232 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 |
| Aroclor-1232 | 4 | --- | | | 0.0 | 4 | --- | | | 0.0 |
| CollAve: <3 Quant Peaks | | | | | Col2Ave: <3 Quant Peaks | | | | | |
| Aroclor-1242 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 |
| Aroclor-1242 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 |
| Aroclor-1242 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 |
| Aroclor-1242 | 4 | --- | | | 0.0 | 4 | --- | | | 0.0 |
| CollAve: <3 Quant Peaks | | | | | Col2Ave: <3 Quant Peaks | | | | | |
| Aroclor-1248 | 1 | 8.396 | -0.005 | 32877 | 166.3 | 1 | 8.299 | -0.004 | 32873 | 219.0 |
| Aroclor-1248 | 2 | 8.566 | -0.008 | 28109 | 111.4 | 2 | 8.705 | -0.005 | 29350 | 181.7 |
| Aroclor-1248 | 3 | 8.985 | -0.009 | 90263 | 187.1 | 3 | 9.140 | -0.012 | 40235 | 203.8 |
| Aroclor-1248 | 4 | 9.286 | -0.006 | 100779 | 422.0 | 4 | 9.532 | -0.042 | 37219 | 152.5 |
| Total CollAve (4 peaks): | | | | 221.7 | Total Col2Ave (4 peaks): | | | | 189.2 | RPD = 16 |
| Corrected Ave (3 peaks): | | | | 154.9 | Corrected Ave (3 peaks): | | | | 179.3 | RPD = 15 |
| Aroclor-1254 | 1 | 9.286 | -0.013 | 100779 | 250.2 | 1 | 9.438 | -0.006 | 71811 | 298.1 |
| Aroclor-1254 | 2 | 9.362 | -0.015 | 44122 | 256.5 | 2 | 9.956 | -0.007 | 37600 | 193.1 |
| Aroclor-1254 | 3 | 9.654 | -0.015 | 57175 | 221.5 | 3 | 10.105 | -0.009 | 125033 | 294.4 |
| Aroclor-1254 | 4 | 9.787 | -0.021 | 130181 | 257.4 | 4 | 10.352 | -0.011 | 145906 | 343.5 |
| Aroclor-1254 | 5 | 10.125 | -0.052 | 158698 | 482.5 | 5 | 10.555 | -0.008 | 93223 | 394.1 |
| Total CollAve (5 peaks): | | | | 293.6 | Total Col2Ave (5 peaks): | | | | 304.6 | RPD = 4 |
| Corrected Ave (4 peaks): | | | | 246.4 | Corrected Ave (4 peaks): | | | | 282.3 | RPD = 14 |
| Aroclor-1260 | 1 | 11.034 | -0.010 | 38530 | 144.9 | 1 | 11.643 | -0.005 | 54149 | 192.4 |
| Aroclor-1260 | 2 | 11.348 | -0.012 | 35876 | 131.3 | 2 | 11.904 | -0.008 | 92044 | 129.3 |
| Aroclor-1260 | 3 | 11.719 | -0.015 | 88395 | 122.9 | 3 | 12.424 | -0.008 | 25307 | 142.6 |
| Aroclor-1260 | 4 | 12.120 | -0.020 | 51278 | 138.0 | 4 | 12.488 | -0.008 | 60697 | 131.7 |
| Aroclor-1260 | 5 | 12.234 | -0.010 | 18692 | 115.4 | NS | --- | | | --- |
| Total CollAve (5 peaks): | | | | 130.5 | Total Col2Ave (4 peaks): | | | | 149.0 | RPD = 13 |
| Corrected Ave (4 peaks): | | | | 126.9 | Corrected Ave (3 peaks): | | | | 134.5 | RPD = 6 |
| Aroclor-1262 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 |
| Aroclor-1262 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 |
| Aroclor-1262 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 |
| Aroclor-1262 | 4 | --- | | | 0.0 | 4 | --- | | | 0.0 |
| CollAve: <3 Quant Peaks | | | | | Col2Ave: <3 Quant Peaks | | | | | |
| Aroclor-1268 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 |
| Aroclor-1268 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 |
| Aroclor-1268 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 |
| Aroclor-1268 | 4 | --- | | | 0.0 | 4 | --- | | | 0.0 |
| CollAve: <3 Quant Peaks | | | | | Col2Ave: <3 Quant Peaks | | | | | |

Total PCB Area Col1 (5.908 - 13.788) = 2138690 Col1 Total PCB = 0.5 ppm*

Total PCB Area Col2 (5.785 - 14.017) = 1880996 Col2 Total PCB = 0.5 ppm*

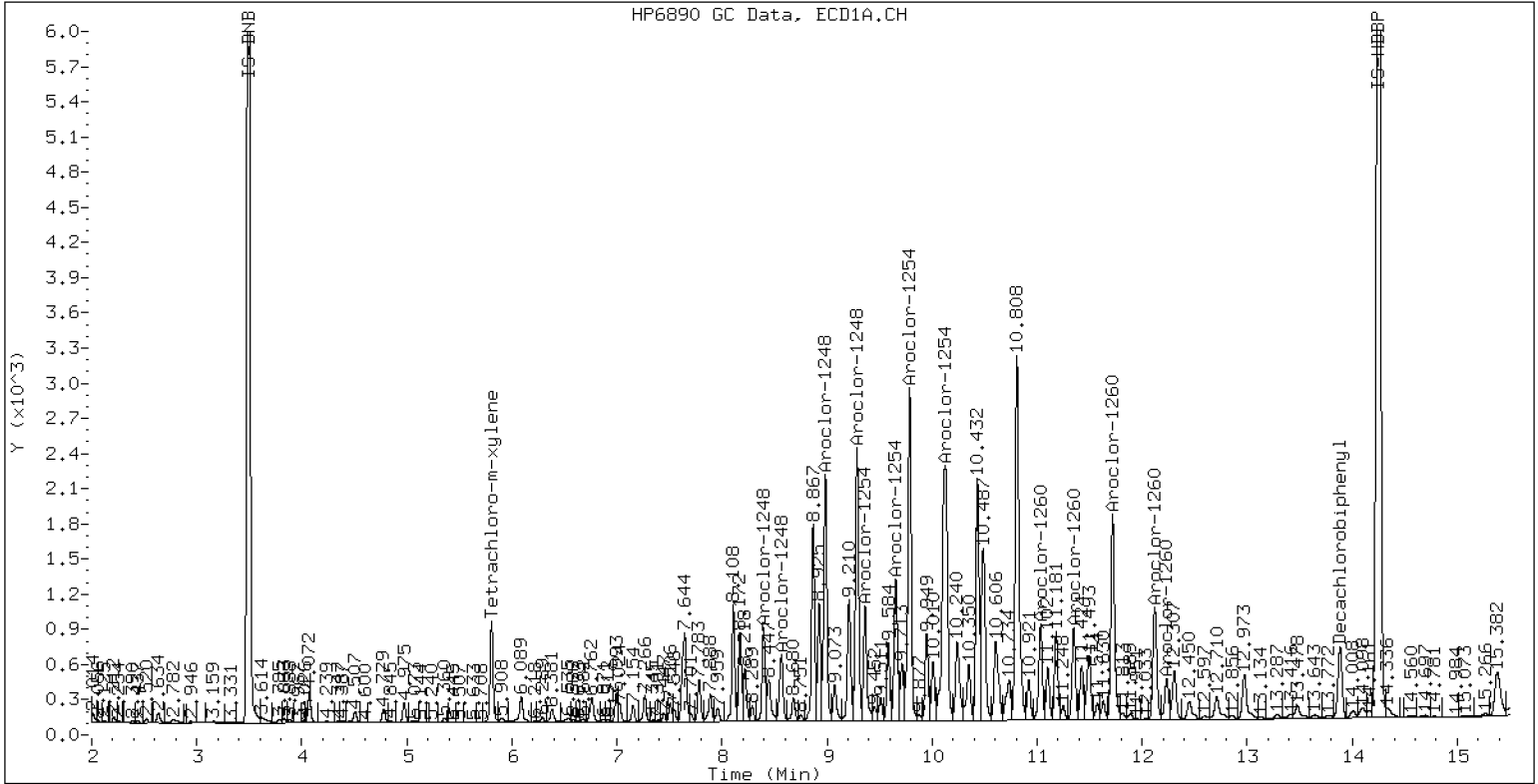
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 23A0180-06RE1

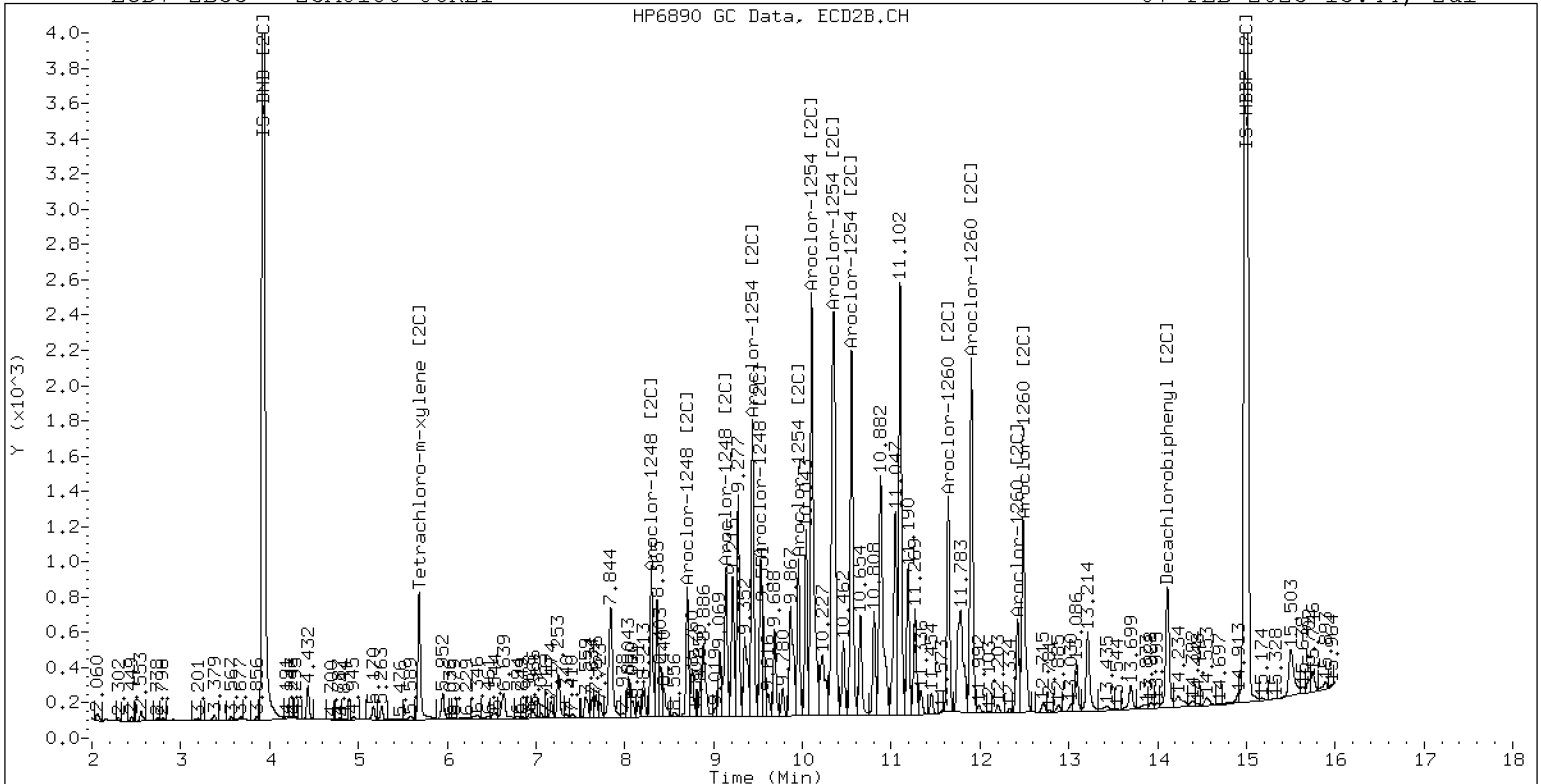
07-FEB-2023 13:44, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 23A0180-06RE1

07-FEB-2023 13:44, 2ul

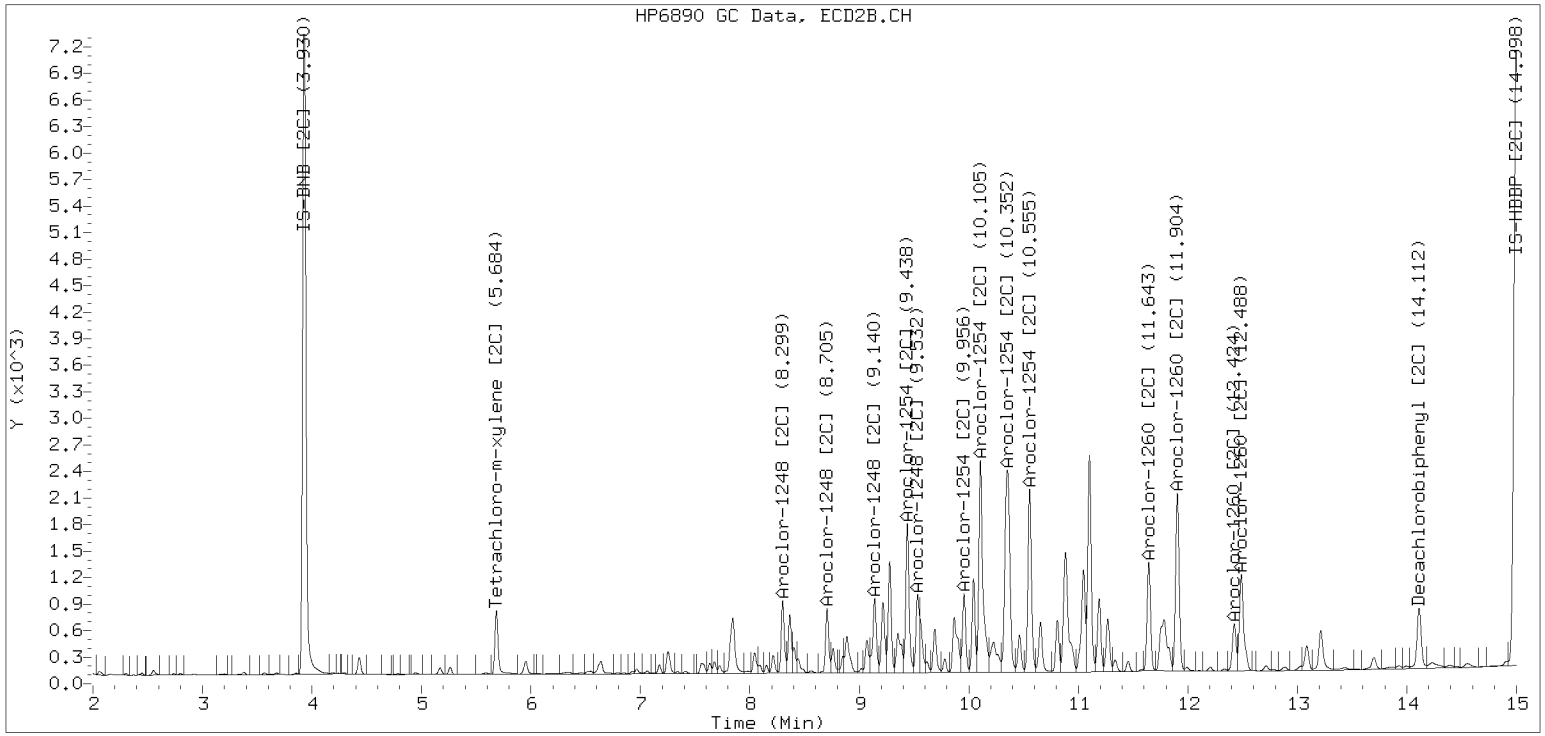


ZB-35 Manual Integration: YES

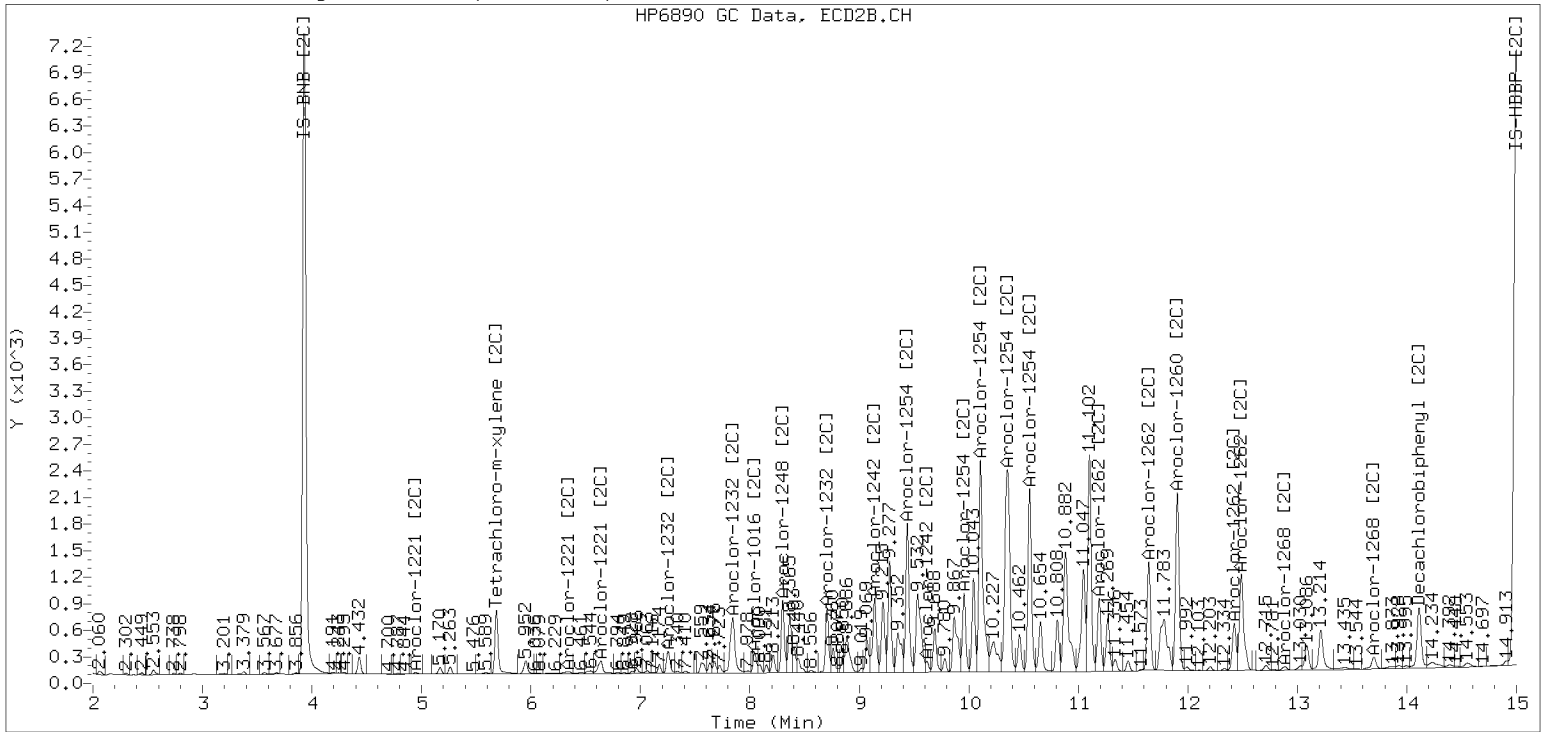
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230207.b/230207.b/02072304ECD7.D Injection Date: 07-FEB-2023

Manual Integration (After)



Processed Integration (Before)





ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory: Analytical Resources, LLC SDG: 23A0180
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Matrix: Solid Laboratory ID: 23A0180-07 A File ID: 02062321ECD7.D
Sampled: 01/10/23 11:08 Prepared: 01/26/23 14:06 Analyzed: 02/06/23 16:34
% Solids: 50.27 Preparation: EPA 3546 (Microwave) Initial/Final: 24.87 g Wet / 2.5 mL
Batch: BLA0559 Sequence: SLB0086 Calibration: GA00061
Instrument: ECD7 Column 1: ZB5 Column 2: ZB35

| CAS NO. | COMPOUND | Col # | DILUTION | CONC. (ug/kg dry) | MDL | MRL | Q |
|------------|--------------|-------|----------|-------------------|------|------|---|
| 12674-11-2 | Aroclor 1016 | 1 | 10 | 40.0 | 15.6 | 40.0 | U |
| 11104-28-2 | Aroclor 1221 | 1 | 10 | 40.0 | 15.6 | 40.0 | U |
| 11141-16-5 | Aroclor 1232 | 1 | 10 | 40.0 | 15.6 | 40.0 | U |
| 53469-21-9 | Aroclor 1242 | 1 | 10 | 40.0 | 15.6 | 40.0 | U |
| 12672-29-6 | Aroclor 1248 | 2 | 10 | 687 | 15.6 | 40.0 | D |
| 11097-69-1 | Aroclor 1254 | 2 | 10 | 232 | 15.6 | 40.0 | D |
| 11096-82-5 | Aroclor 1260 | 1 | 10 | 118 | 5.9 | 40.0 | D |

| SURROGATES | Col # | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|------------------------------|-------|-------------------|------------------|-------|-----------|---|
| <i>Decachlorobiphenyl</i> | 1 | 7.9986 | 6.27 | 78.4 | 40 - 126 | |
| <i>Tetrachlorometaxylene</i> | 1 | 7.9986 | 5.53 | 69.1 | 44 - 120 | |
| <i>Decachlorobiphenyl</i> | 2 | 7.9986 | 6.35 | 79.4 | 40 - 126 | |
| <i>Tetrachlorometaxylene</i> | 2 | 7.9986 | 6.55 | 81.9 | 44 - 120 | |

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230206.b/02062321ECD7.D
Data file 2: /230206.b/230206.b/02062321ECD7.D
Method: \\target\share\chem4\ecd7.i\230206.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 23A0180-07RE1
Client ID:
Injection Date: 06-FEB-2023 16:34
Report Date: 02/07/2023 10:35
Matrix: NONE
Dilution Factor: 10.0

SURROGATES

| RT | ZB5 Col Shift | Response | RT | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag |
|--------|---------------|----------|--------|----------------|----------|------------|-------------|------|----------------------|
| 5.806 | -0.003 | 14434 | 5.683 | -0.002 | 14092 | 2.8 | 3.3 | 17.0 | Tetrachloro-m-xylene |
| 13.885 | -0.007 | 14240 | 14.114 | -0.003 | 17817 | 3.1 | 3.2 | 1.2 | Decachlorobiphenyl |

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | |
|--------------------|----------------|-------------|-------|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 503318 | 369269 | -26.6 |
| Hexabromobiphenyl | 647433 | 424458 | -34.4 |

| Standard Cpnd | Column 2 | | |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 336911 | 318034 | -5.6 |
| Hexabromobiphenyl | 382032 | 353595 | -7.4 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-JAN-2023
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | ZB35 Col | | | | | | |
|--------------------------|-------|--------|--------|-------|--------------------------|-------|--------|--------|-------|----------|--|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount | |
| Aroclor-1016 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 | |
| Aroclor-1016 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 | |
| Aroclor-1016 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 | |
| Aroclor-1016 | 4 | --- | | | 0.0 | 4 | --- | | | 0.0 | |
| CollAve: <3 Quant Peaks | | | | | Col2Ave: <3 Quant Peaks | | | | | | |
| Aroclor-1221 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 | |
| Aroclor-1221 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 | |
| Aroclor-1221 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 | |
| CollAve: <3 Quant Peaks | | | | | Col2Ave: <3 Quant Peaks | | | | | | |
| Aroclor-1232 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 | |
| Aroclor-1232 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 | |
| Aroclor-1232 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 | |
| Aroclor-1232 | 4 | --- | | | 0.0 | 4 | --- | | | 0.0 | |
| CollAve: <3 Quant Peaks | | | | | Col2Ave: <3 Quant Peaks | | | | | | |
| Aroclor-1242 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 | |
| Aroclor-1242 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 | |
| Aroclor-1242 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 | |
| Aroclor-1242 | 4 | --- | | | 0.0 | 4 | --- | | | 0.0 | |
| CollAve: <3 Quant Peaks | | | | | Col2Ave: <3 Quant Peaks | | | | | | |
| Aroclor-1248 | 1 | 8.397 | -0.008 | 60625 | 328.2 | 1 | 8.299 | -0.003 | 71844 | 499.8 | |
| Aroclor-1248 | 2 | 8.565 | -0.016 | 74179 | 314.8 | 2 | 8.705 | -0.004 | 60282 | 389.6 | |
| Aroclor-1248 | 3 | 8.983 | -0.016 | 69901 | 155.1 | 3 | 9.140 | -0.012 | 52268 | 276.4 | |
| Aroclor-1248 | 4 | 9.286 | -0.008 | 39774 | 178.3 | 4 | 9.560 | -0.016 | 48848 | 208.9 | |
| Total CollAve (4 peaks): | | | | 244.1 | Total Col2Ave (4 peaks): | | | | 343.7 | RPD = 34 | |
| Corrected Ave (3 peaks): | | | | 216.1 | Corrected Ave (3 peaks): | | | | 291.6 | RPD = 30 | |
| Aroclor-1254 | 1 | 9.286 | -0.013 | 39774 | 105.7 | 1 | 9.439 | -0.006 | 26875 | 116.5 | |
| Aroclor-1254 | 2 | 9.363 | -0.015 | 18505 | 115.2 | 2 | 9.957 | -0.006 | 16052 | 86.1 | |
| Aroclor-1254 | 3 | 9.655 | -0.014 | 20420 | 84.7 | 3 | 10.106 | -0.008 | 52263 | 128.5 | |
| Aroclor-1254 | 4 | 9.789 | -0.020 | 50582 | 107.1 | 4 | 10.354 | -0.010 | 52051 | 127.9 | |
| Aroclor-1254 | 5 | 10.128 | -0.049 | 49411 | 160.8 | 5 | 10.555 | -0.007 | 27209 | 120.1 | |
| Total CollAve (5 peaks): | | | | 114.7 | Total Col2Ave (5 peaks): | | | | 115.8 | RPD = 1 | |
| Corrected Ave (4 peaks): | | | | 103.1 | Corrected Ave (4 peaks): | | | | 112.6 | RPD = 9 | |
| Aroclor-1260 | 1 | 11.033 | -0.010 | 15107 | 63.4 | 1 | 11.645 | -0.004 | 14667 | 57.5 | |
| Aroclor-1260 | 2 | 11.349 | -0.011 | 14658 | 59.9 | 2 | 11.905 | -0.007 | 29794 | 46.2 | |
| Aroclor-1260 | 3 | 11.720 | -0.014 | 33392 | 51.8 | 3 | 12.425 | -0.007 | 11800 | 73.4 | |
| Aroclor-1260 | 4 | 12.121 | -0.019 | 18015 | 54.1 | 4 | 12.489 | -0.008 | 22293 | 53.4 | |
| Aroclor-1260 | 5 | 12.236 | -0.008 | 9562 | 65.9 | NS | --- | | | --- | |
| Total CollAve (5 peaks): | | | | 59.0 | Total Col2Ave (4 peaks): | | | | 57.6 | RPD = 2 | |
| Corrected Ave (4 peaks): | | | | 57.3 | Corrected Ave (3 peaks): | | | | 52.3 | RPD = 9 | |
| Aroclor-1262 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 | |
| Aroclor-1262 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 | |
| Aroclor-1262 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 | |
| Aroclor-1262 | 4 | --- | | | 0.0 | 4 | --- | | | 0.0 | |
| CollAve: <3 Quant Peaks | | | | | Col2Ave: <3 Quant Peaks | | | | | | |
| Aroclor-1268 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 | |
| Aroclor-1268 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 | |
| Aroclor-1268 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 | |
| Aroclor-1268 | 4 | --- | | | 0.0 | 4 | --- | | | 0.0 | |
| CollAve: <3 Quant Peaks | | | | | Col2Ave: <3 Quant Peaks | | | | | | |

Total PCB Area Col1 (5.909 - 13.792) = 2468305 Col1 Total PCB = 0.6 ppm*
Total PCB Area Col2 (5.784 - 14.017) = 2090159 Col2 Total PCB = 0.6 ppm*

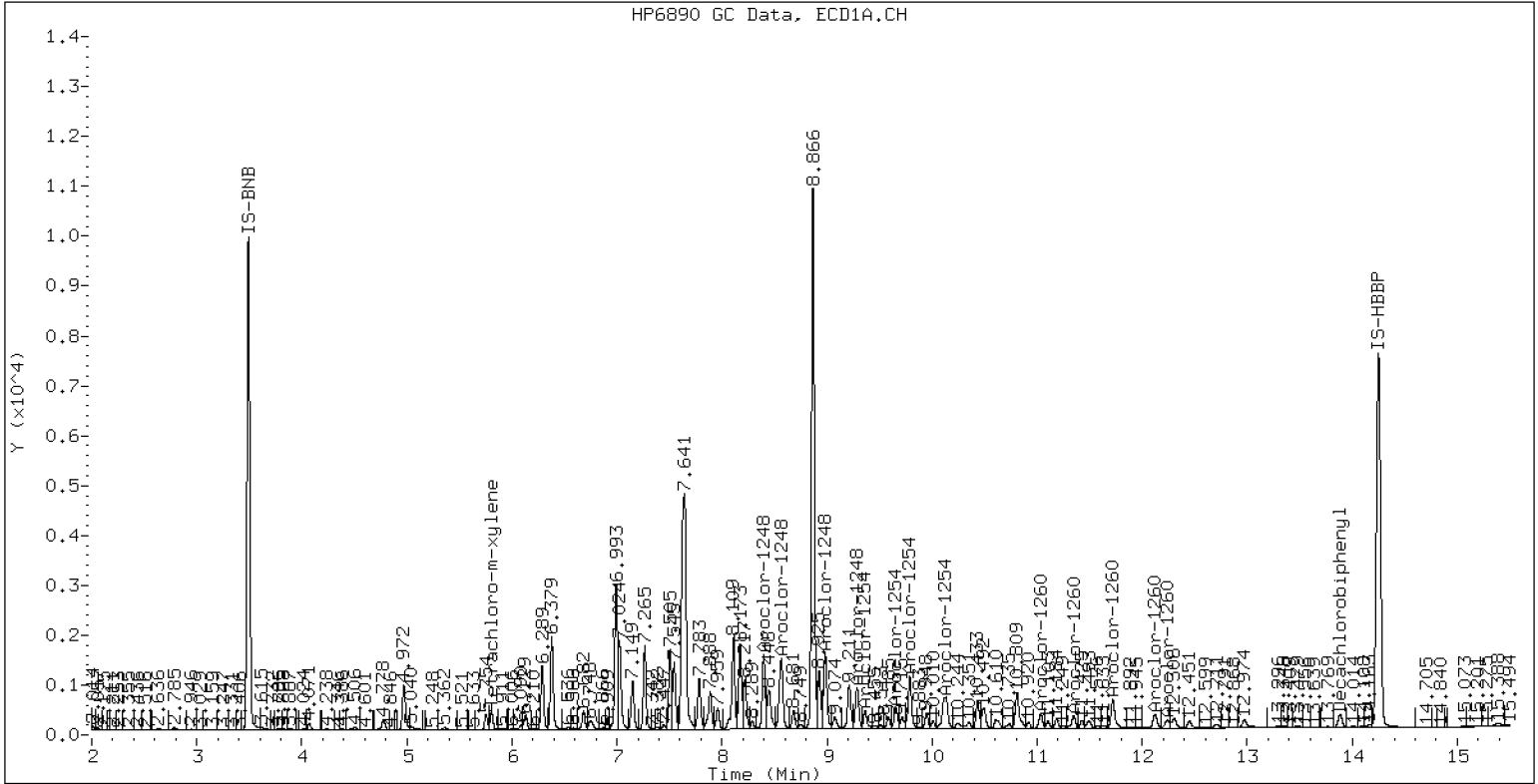
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 23A0180-07RE1

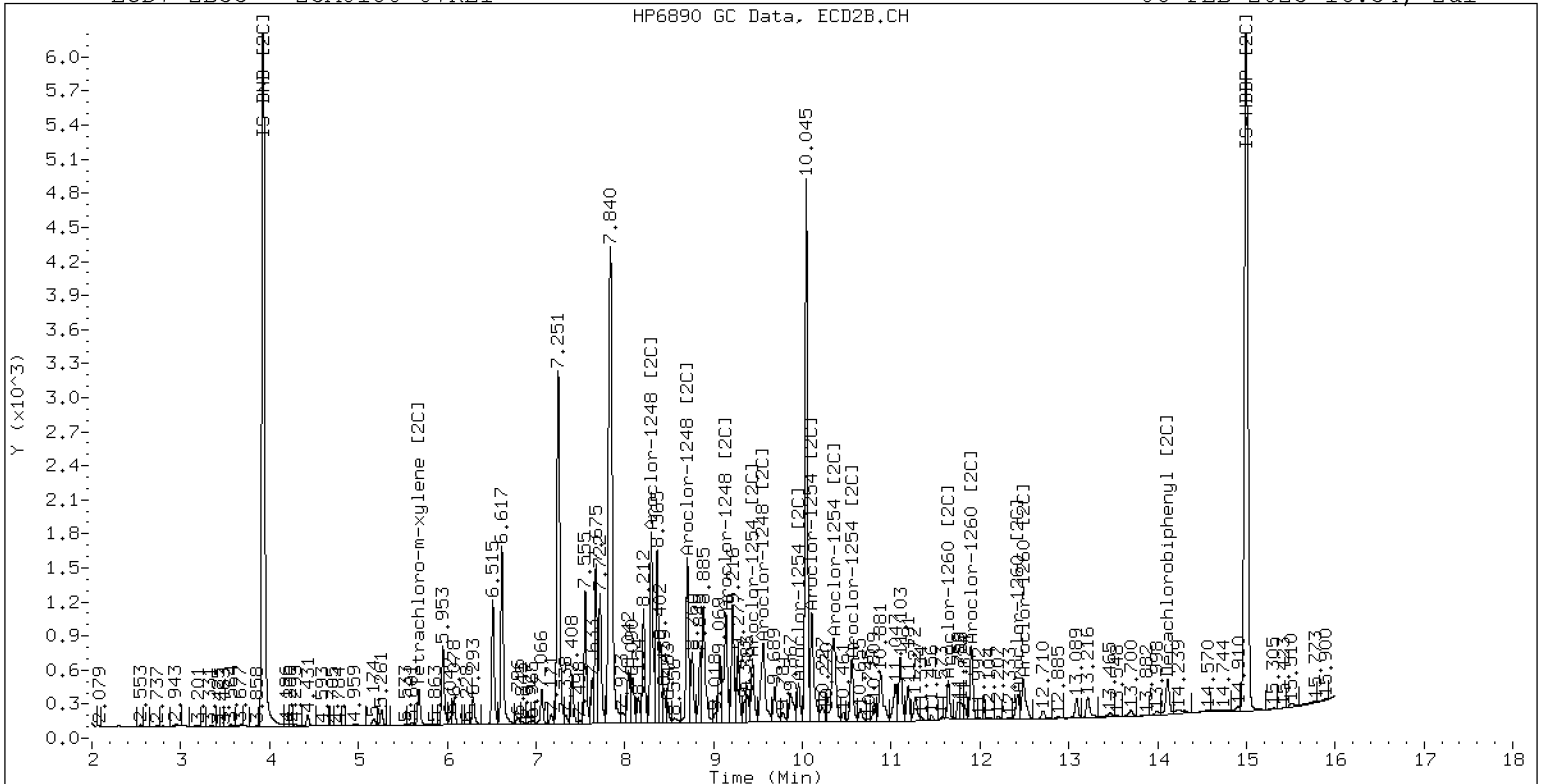
06-FEB-2023 16:34, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 23A0180-07RE1

06-FEB-2023 16:34, 2ul



ZB-35 Manual Integration: NO



Dual Column

LDW23-SC1061

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory: Analytical Resources, LLC SDG: 23A0180
 Client: Anchor QEA, LLC
 Project: AOC5 MR Phase 1
 Matrix: Solid Laboratory ID: 23A0180-08 A File ID: 02062333ECD7.D
 Sampled: 01/10/23 10:45 Prepared: 01/26/23 14:06 Analyzed: 02/06/23 20:46
 % Solids: 51.77 Preparation: EPA 3546 (Microwave) Initial/Final: 24.16 g Wet / 2.5 mL
 Batch: BLA0559 Sequence: SLB0086 Calibration: GA00061
 Instrument: ECD7 Column 1: ZB5 Column 2: ZB35

| CAS NO. | COMPOUND | Col # | DILUTION | CONC. (ug/kg dry) | MDL | MRL | Q |
|------------|--------------|-------|----------|-------------------|-----|-----|---|
| 12674-11-2 | Aroclor 1016 | 1 | 1 | 4.0 | 1.6 | 4.0 | U |
| 11104-28-2 | Aroclor 1221 | 1 | 1 | 4.0 | 1.6 | 4.0 | U |
| 11141-16-5 | Aroclor 1232 | 1 | 1 | 4.0 | 1.6 | 4.0 | U |
| 53469-21-9 | Aroclor 1242 | 1 | 1 | 4.0 | 1.6 | 4.0 | U |
| 12672-29-6 | Aroclor 1248 | 1 | 1 | 91.9 | 1.6 | 4.0 | |
| 11097-69-1 | Aroclor 1254 | 1 | 1 | 75.5 | 1.6 | 4.0 | |
| 11096-82-5 | Aroclor 1260 | 1 | 1 | 64.9 | 0.6 | 4.0 | |

| SURROGATES | Col # | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|------------------------------|-------|-------------------|------------------|-------|-----------|---|
| <i>Decachlorobiphenyl</i> | 1 | 7.9951 | 5.71 | 71.4 | 40 - 126 | |
| <i>Tetrachlorometaxylene</i> | 1 | 7.9951 | 4.97 | 62.2 | 44 - 120 | |

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230206.b/02062333ECD7.D
Data file 2: /230206.b/230206.b/02062333ECD7.D
Method: \\target\share\chem4\ecd7.i\230206.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 23A0180-08
Client ID:
Injection Date: 06-FEB-2023 20:46
Report Date: 02/07/2023 10:36
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

| ZB5 Col | | ZB35 Col | | | ZB5 | ZB35 | RPD | Compound/Flag | |
|---------|--------|----------|--------|--------|----------|--------|------|---------------|----------------------|
| RT | Shift | Response | RT | Shift | Response | on col | | | on col |
| 5.805 | -0.004 | 134259 | 5.682 | -0.003 | 110885 | 24.9 | 26.2 | 5.1 | Tetrachloro-m-xylene |
| 13.883 | -0.008 | 101532 | 14.113 | -0.004 | 137674 | 28.6 | 28.2 | 1.4 | Decachlorobiphenyl |

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | |
|--------------------|----------------|-------------|-------|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 503318 | 382073 | -24.1 |
| Hexabromobiphenyl | 647433 | 332343 | -48.7 |

| Standard Cpnd | Column 2 | | |
|--------------------|----------------|-------------|-------|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 336911 | 313398 | -7.0 |
| Hexabromobiphenyl | 382032 | 307921 | -19.4 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-JAN-2023
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | ZB35 Col | | | | | | |
|--------------------------|-------|--------|--------|--------|--------------------------|-------|--------|--------|--------|----------|--|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount | |
| Aroclor-1016 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 | |
| Aroclor-1016 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 | |
| Aroclor-1016 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 | |
| Aroclor-1016 | 4 | --- | | | 0.0 | 4 | --- | | | 0.0 | |
| CollAve: <3 Quant Peaks | | | | | Col2Ave: <3 Quant Peaks | | | | | | |
| Aroclor-1221 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 | |
| Aroclor-1221 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 | |
| Aroclor-1221 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 | |
| CollAve: <3 Quant Peaks | | | | | Col2Ave: <3 Quant Peaks | | | | | | |
| Aroclor-1232 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 | |
| Aroclor-1232 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 | |
| Aroclor-1232 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 | |
| Aroclor-1232 | 4 | --- | | | 0.0 | 4 | --- | | | 0.0 | |
| CollAve: <3 Quant Peaks | | | | | Col2Ave: <3 Quant Peaks | | | | | | |
| Aroclor-1242 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 | |
| Aroclor-1242 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 | |
| Aroclor-1242 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 | |
| Aroclor-1242 | 4 | --- | | | 0.0 | 4 | --- | | | 0.0 | |
| CollAve: <3 Quant Peaks | | | | | Col2Ave: <3 Quant Peaks | | | | | | |
| Aroclor-1248 | 1 | 8.395 | -0.011 | 92379 | 483.3 | 1 | 8.298 | -0.005 | 82494 | 582.3 | |
| Aroclor-1248 | 2 | 8.563 | -0.017 | 86295 | 353.9 | 2 | 8.704 | -0.006 | 88796 | 582.3 | |
| Aroclor-1248 | 3 | 8.980 | -0.019 | 178512 | 382.8 | 3 | 9.136 | -0.016 | 101156 | 542.9 | |
| Aroclor-1248 | 4 | 9.285 | -0.008 | 142752 | 618.4 | 4 | 9.544 | -0.031 | 59592 | 258.6 | |
| Total CollAve (4 peaks): | | | | 459.6 | Total Col2Ave (4 peaks): | | | | 491.5 | RPD = 7 | |
| Corrected Ave (3 peaks): | | | | 406.7 | Corrected Ave (3 peaks): | | | | 461.3 | RPD = 13 | |
| Aroclor-1254 | 1 | 9.285 | -0.014 | 142752 | 366.6 | 1 | 9.437 | -0.008 | 106277 | 467.4 | |
| Aroclor-1254 | 2 | 9.360 | -0.017 | 58098 | 349.4 | 2 | 9.955 | -0.009 | 63765 | 347.0 | |
| Aroclor-1254 | 3 | 9.653 | -0.016 | 99869 | 400.3 | 3 | 10.103 | -0.011 | 195726 | 488.2 | |
| Aroclor-1254 | 4 | 9.785 | -0.024 | 192987 | 394.7 | 4 | 10.342 | -0.022 | 230621 | 575.3 | |
| Aroclor-1254 | 5 | 10.122 | -0.055 | 211872 | 666.5 | 5 | 10.553 | -0.009 | 145771 | 652.9 | |
| Total CollAve (5 peaks): | | | | 405.5 | Total Col2Ave (5 peaks): | | | | 506.2 | RPD = 15 | |
| Corrected Ave (4 peaks): | | | | 377.8 | Corrected Ave (4 peaks): | | | | 469.5 | RPD = 22 | |
| Aroclor-1260 | 1 | 11.032 | -0.012 | 64380 | 345.3 | 1 | 11.642 | -0.006 | 83153 | 374.3 | |
| Aroclor-1260 | 2 | 11.347 | -0.013 | 54449 | 284.1 | 2 | 11.903 | -0.009 | 163244 | 290.5 | |
| Aroclor-1260 | 3 | 11.718 | -0.017 | 152992 | 303.2 | 3 | 12.422 | -0.009 | 64032 | 457.1 | |
| Aroclor-1260 | 4 | 12.118 | -0.022 | 84203 | 323.0 | 4 | 12.486 | -0.010 | 122817 | 337.7 | |
| Aroclor-1260 | 5 | 12.234 | -0.010 | 41848 | 368.2 | NS | --- | | | --- | |
| Total CollAve (5 peaks): | | | | 324.7 | Total Col2Ave (4 peaks): | | | | 364.9 | RPD = 12 | |
| Corrected Ave (4 peaks): | | | | 313.9 | Corrected Ave (3 peaks): | | | | 334.2 | RPD = 6 | |
| Aroclor-1262 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 | |
| Aroclor-1262 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 | |
| Aroclor-1262 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 | |
| Aroclor-1262 | 4 | --- | | | 0.0 | 4 | --- | | | 0.0 | |
| CollAve: <3 Quant Peaks | | | | | Col2Ave: <3 Quant Peaks | | | | | | |
| Aroclor-1268 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 | |
| Aroclor-1268 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 | |
| Aroclor-1268 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 | |
| Aroclor-1268 | 4 | --- | | | 0.0 | 4 | --- | | | 0.0 | |
| CollAve: <3 Quant Peaks | | | | | Col2Ave: <3 Quant Peaks | | | | | | |

Total PCB Area Col1 (5.909 - 13.792) = 3961137 Col1 Total PCB = 0.9 ppm*

Total PCB Area Col2 (5.784 - 14.017) = 3723629 Col2 Total PCB = 1.1 ppm*

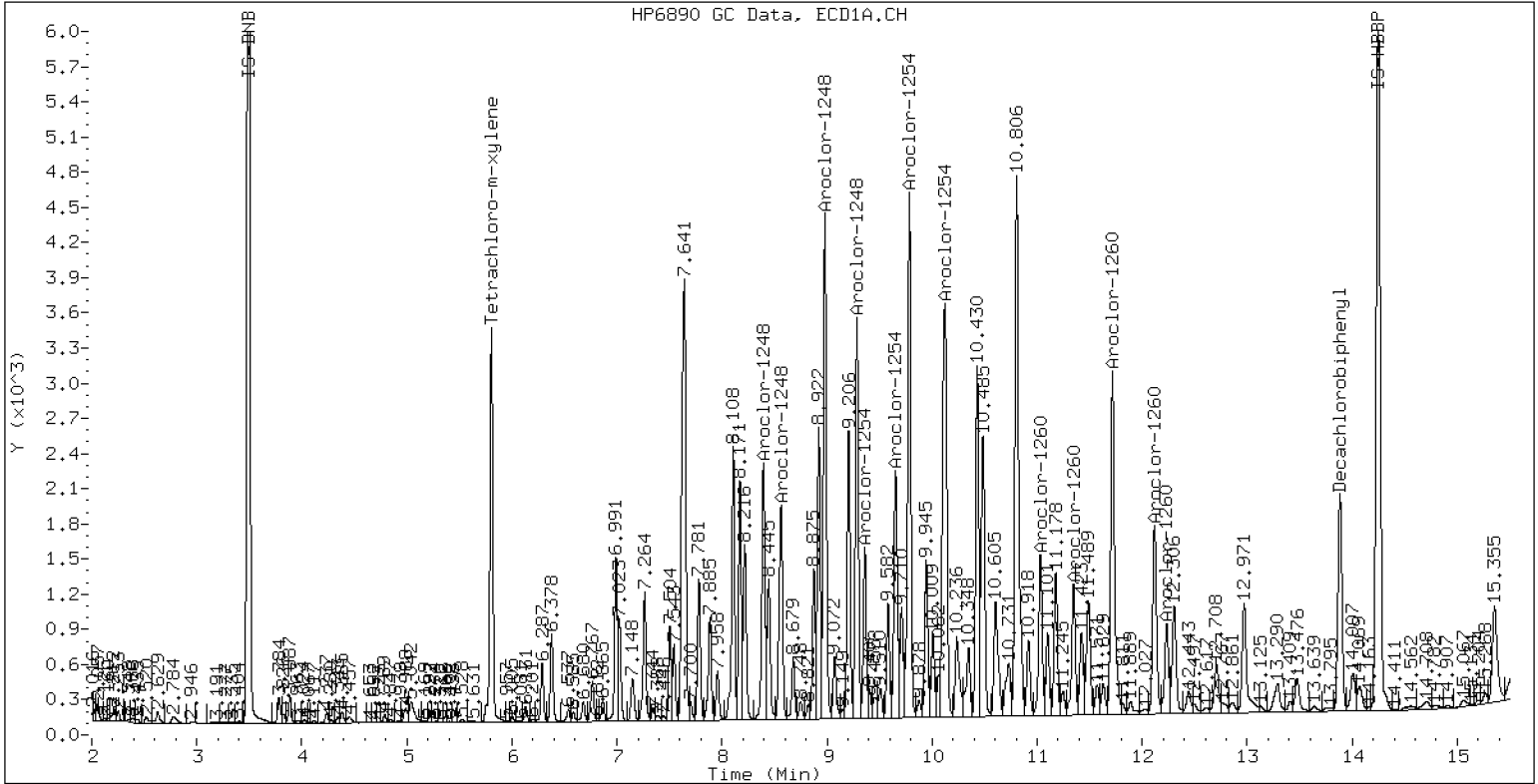
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 23A0180-08

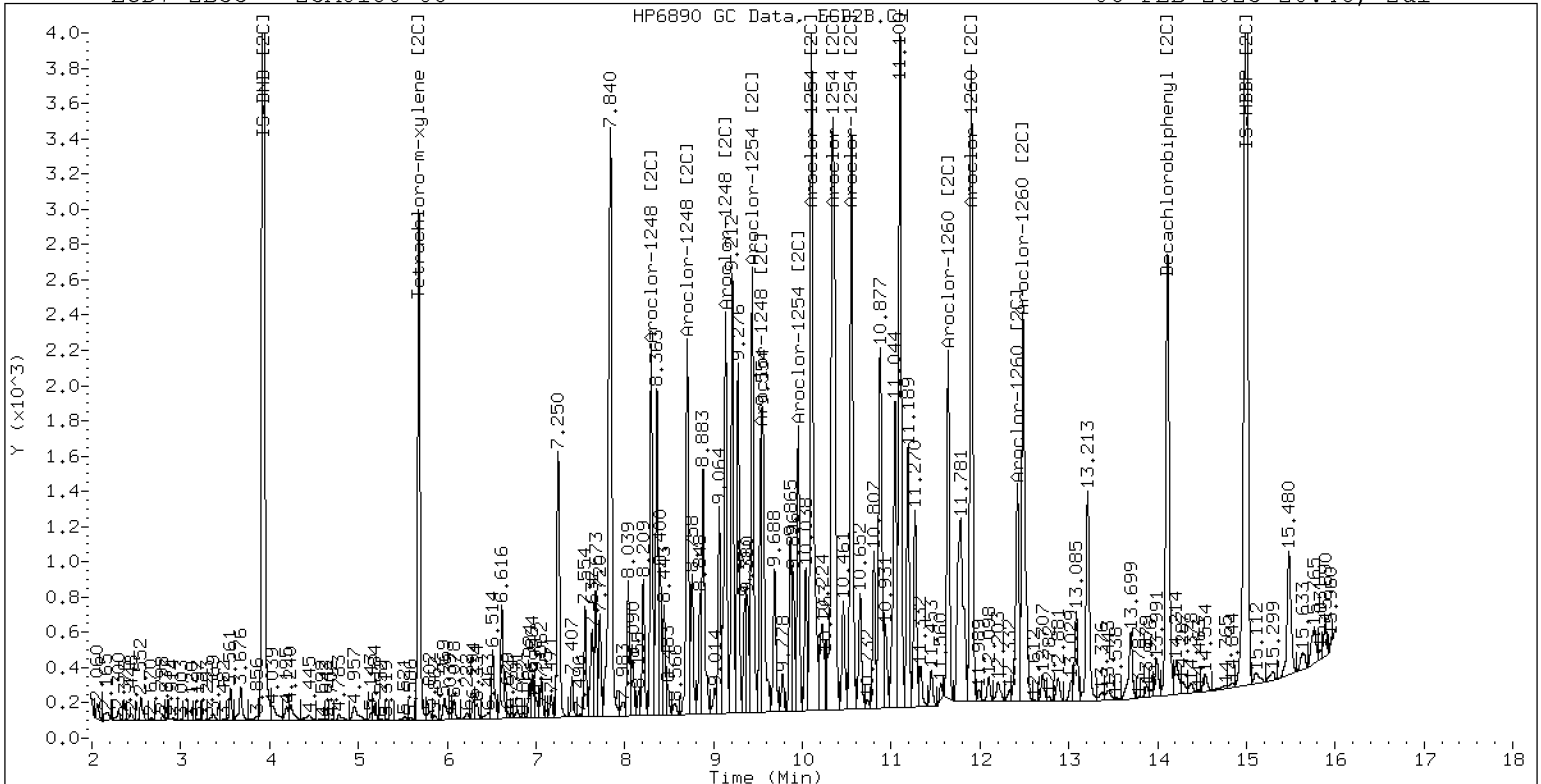
06-FEB-2023 20:46, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 23A0180-08

06-FEB-2023 20:46, 2ul

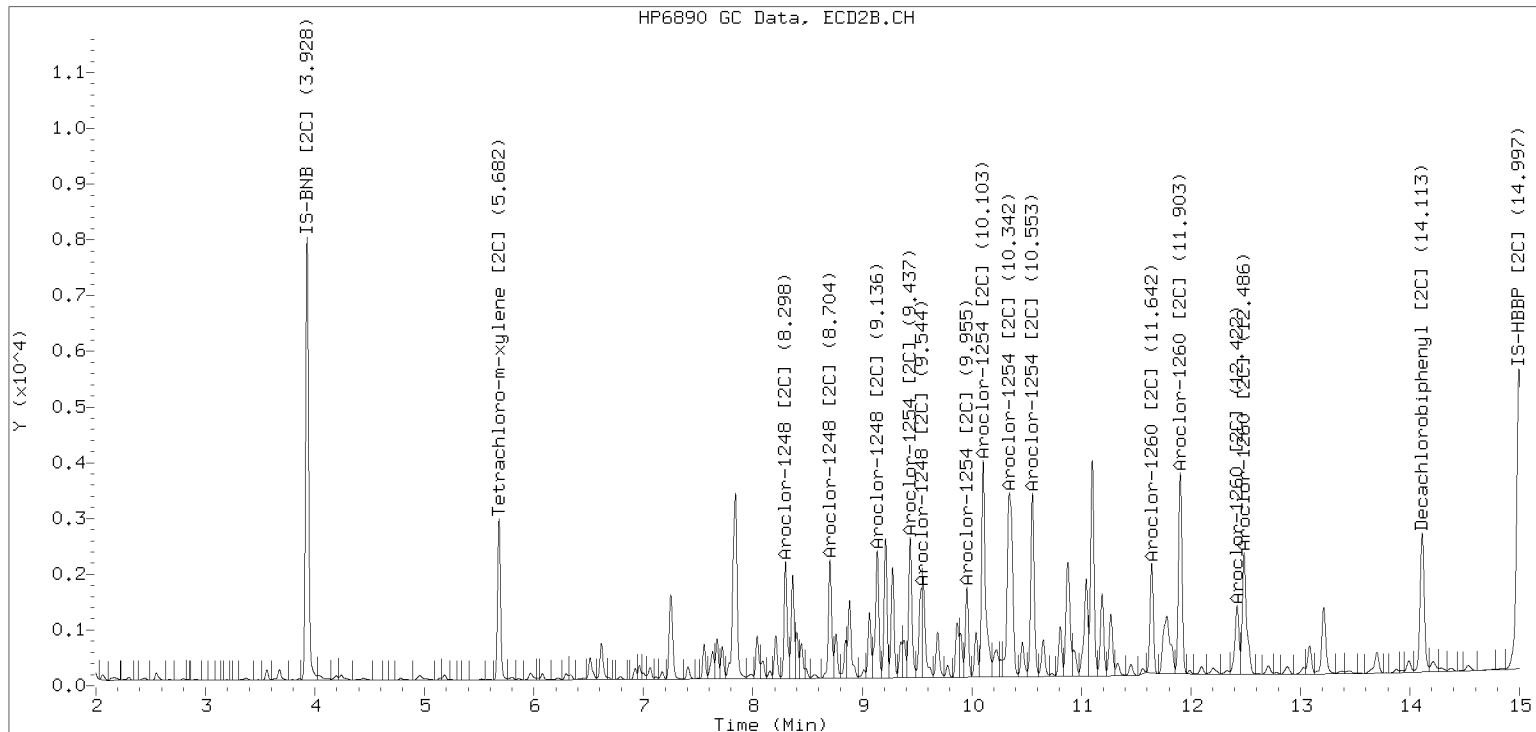


ZB-35 Manual Integration: YES

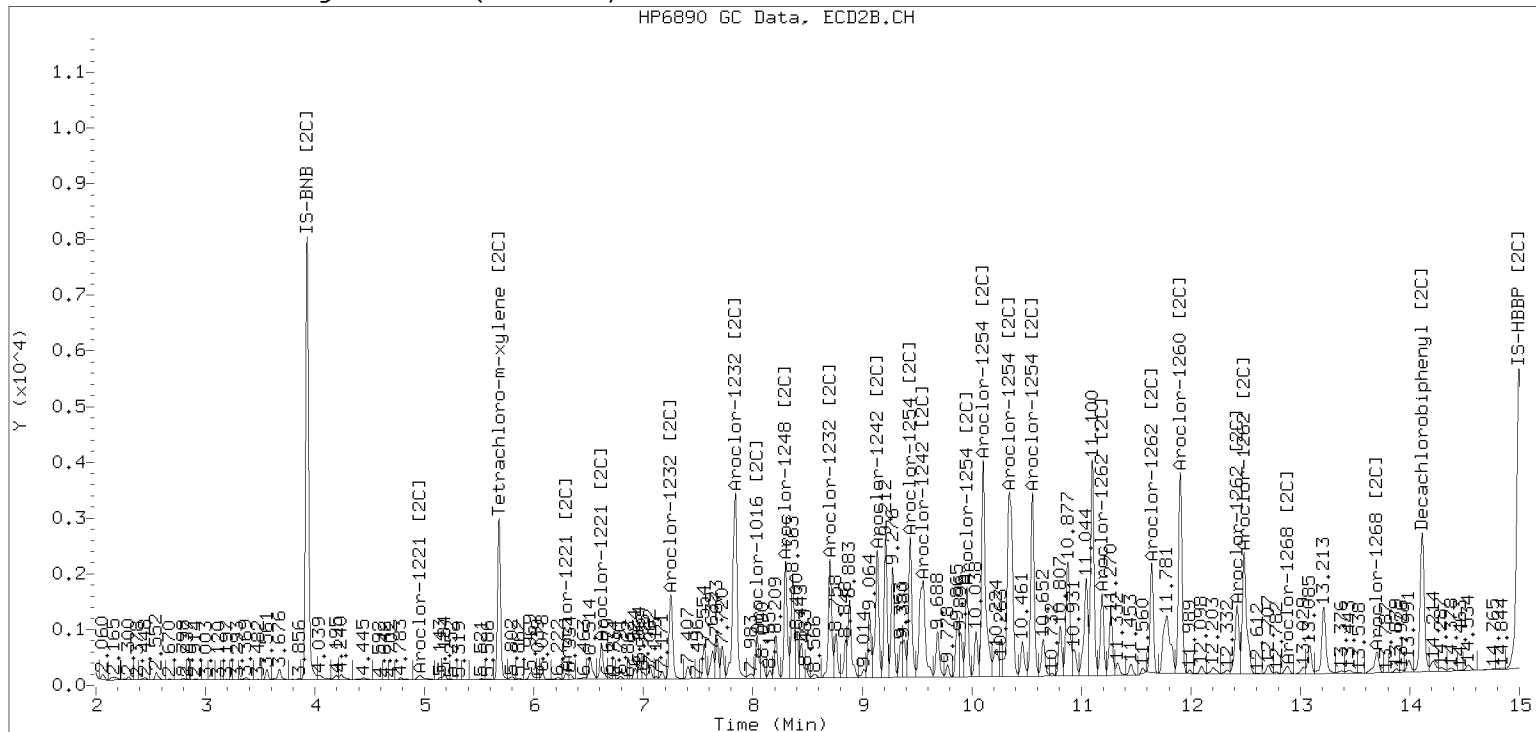
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230206.b/230206.b/02062333ECD7.D Injection Date: 06-FEB-2023

Manual Integration (After)



Processed Integration (Before)





ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Matrix: Solid

Laboratory ID: 23A0180-09 A

File ID: 02042349ECD7.D

Sampled: 01/10/23 11:35

Prepared: 01/26/23 14:06

Analyzed: 02/05/23 08:47

% Solids: 51.54

Preparation: EPA 3546 (Microwave)

Initial/Final: 24.3 g Wet / 2.5 mL

Batch: BLA0559

Sequence: SLB0084

Calibration: GA00061

Instrument: ECD7

Column 1: ZB5

Column 2: ZB35

| CAS NO. | COMPOUND | Col # | DILUTION | CONC. (ug/kg dry) | MDL | MRL | Q |
|------------|--------------|-------|----------|-------------------|-----|-----|---|
| 12674-11-2 | Aroclor 1016 | 1 | 1 | 4.0 | 1.6 | 4.0 | U |
| 11104-28-2 | Aroclor 1221 | 1 | 1 | 4.0 | 1.6 | 4.0 | U |
| 11141-16-5 | Aroclor 1232 | 1 | 1 | 4.0 | 1.6 | 4.0 | U |
| 53469-21-9 | Aroclor 1242 | 1 | 1 | 4.0 | 1.6 | 4.0 | U |
| 12672-29-6 | Aroclor 1248 | 2 | 1 | 32.4 | 1.6 | 4.0 | |
| 11097-69-1 | Aroclor 1254 | 2 | 1 | 53.5 | 1.6 | 4.0 | |
| 11096-82-5 | Aroclor 1260 | 2 | 1 | 43.6 | 0.6 | 4.0 | |

| SURROGATES | Col # | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|------------------------------|-------|-------------------|------------------|-------|-----------|---|
| <i>Decachlorobiphenyl</i> | 1 | 7.9845 | 5.76 | 72.1 | 40 - 126 | |
| <i>Tetrachlorometaxylene</i> | 1 | 7.9845 | 5.24 | 65.6 | 44 - 120 | |
| <i>Decachlorobiphenyl</i> | 2 | 7.9845 | 5.81 | 72.8 | 40 - 126 | |
| <i>Tetrachlorometaxylene</i> | 2 | 7.9845 | 5.99 | 75.0 | 44 - 120 | |

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230204.b/02042349ECD7.D
Data file 2: /230204.b/230204.b/02042349ECD7.D
Method: \\target\share\chem4\ecd7.i\230204.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 23A0180-09
Client ID:
Injection Date: 05-FEB-2023 08:47
Report Date: 02/06/2023 16:58
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

| ZB5 Col | | ZB35 Col | | | ZB5 | ZB35 | RPD | Compound/Flag | |
|---------|--------|----------|--------|--------|----------|--------|------|---------------|----------------------|
| RT | Shift | Response | RT | Shift | Response | on col | | | on col |
| 5.803 | -0.004 | 159227 | 5.679 | -0.004 | 138872 | 26.2 | 30.0 | 13.4 | Tetrachloro-m-xylene |
| 13.885 | -0.004 | 113007 | 14.111 | -0.005 | 148080 | 28.8 | 29.1 | 1.0 | Decachlorobiphenyl |

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1 | | | |
|--------------------|----------------|-------------|-------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 503318 | 429200 | -14.7 |
| Hexabromobiphenyl | 647433 | 366288 | -43.4 |

| Column 2 | | | |
|--------------------|----------------|-------------|-------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 336911 | 342206 | 1.6 |
| Hexabromobiphenyl | 382032 | 320302 | -16.2 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-JAN-2023
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | ZB35 Col | | | | | | |
|--------------------------|-------|--------|--------|--------|--------------------------|-------|--------|--------|--------|----------|--|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount | |
| Aroclor-1016 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 | |
| Aroclor-1016 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 | |
| Aroclor-1016 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 | |
| Aroclor-1016 | 4 | --- | | | 0.0 | 4 | --- | | | 0.0 | |
| CollAve: <3 Quant Peaks | | | | | Col2Ave: <3 Quant Peaks | | | | | | |
| Aroclor-1221 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 | |
| Aroclor-1221 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 | |
| Aroclor-1221 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 | |
| CollAve: <3 Quant Peaks | | | | | Col2Ave: <3 Quant Peaks | | | | | | |
| Aroclor-1232 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 | |
| Aroclor-1232 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 | |
| Aroclor-1232 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 | |
| Aroclor-1232 | 4 | --- | | | 0.0 | 4 | --- | | | 0.0 | |
| CollAve: <3 Quant Peaks | | | | | Col2Ave: <3 Quant Peaks | | | | | | |
| Aroclor-1242 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 | |
| Aroclor-1242 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 | |
| Aroclor-1242 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 | |
| Aroclor-1242 | 4 | --- | | | 0.0 | 4 | --- | | | 0.0 | |
| CollAve: <3 Quant Peaks | | | | | Col2Ave: <3 Quant Peaks | | | | | | |
| Aroclor-1248 | 1 | 8.393 | -0.007 | 28085 | 130.8 | 1 | 8.296 | -0.006 | 28728 | 185.7 | |
| Aroclor-1248 | 2 | 8.562 | -0.011 | 22851 | 83.4 | 2 | 8.701 | -0.007 | 29637 | 178.0 | |
| Aroclor-1248 | 3 | 8.981 | -0.012 | 70720 | 135.0 | 3 | 9.135 | -0.014 | 33159 | 163.0 | |
| Aroclor-1248 | 4 | 9.284 | -0.008 | 76982 | 296.9 | 4 | 9.529 | -0.043 | 31083 | 123.5 | |
| Total CollAve (4 peaks): | | | | 161.5 | Total Col2Ave (4 peaks): | | | | 162.6 | RPD = 1 | |
| Corrected Ave (3 peaks): | | | | 116.4 | Corrected Ave (3 peaks): | | | | 154.8 | RPD = 28 | |
| Aroclor-1254 | 1 | 9.284 | -0.010 | 76982 | 176.0 | 1 | 9.435 | -0.008 | 59294 | 238.8 | |
| Aroclor-1254 | 2 | 9.359 | -0.010 | 31059 | 166.3 | 2 | 9.953 | -0.009 | 33795 | 168.4 | |
| Aroclor-1254 | 3 | 9.656 | -0.005 | 58855 | 210.0 | 3 | 10.101 | -0.011 | 104414 | 238.5 | |
| Aroclor-1254 | 4 | 9.784 | -0.014 | 106692 | 194.3 | 4 | 10.351 | -0.011 | 138721 | 316.9 | |
| Aroclor-1254 | 5 | 10.116 | -0.039 | 133302 | 373.3 | 5 | 10.551 | -0.009 | 92101 | 377.8 | |
| Total CollAve (5 peaks): | | | | 224.0 | Total Col2Ave (5 peaks): | | | | 268.1 | RPD = 18 | |
| Corrected Ave (4 peaks): | | | | 186.6 | Corrected Ave (4 peaks): | | | | 240.7 | RPD = 25 | |
| Aroclor-1260 | 1 | 11.032 | -0.008 | 42780 | 208.2 | 1 | 11.641 | -0.007 | 49764 | 215.4 | |
| Aroclor-1260 | 2 | 11.347 | -0.009 | 35366 | 167.4 | 2 | 11.902 | -0.009 | 103466 | 177.0 | |
| Aroclor-1260 | 3 | 11.717 | -0.011 | 104552 | 188.0 | 3 | 12.421 | -0.010 | 41367 | 283.9 | |
| Aroclor-1260 | 4 | 12.117 | -0.014 | 56420 | 196.3 | 4 | 12.485 | -0.010 | 75062 | 198.4 | |
| Aroclor-1260 | 5 | 12.232 | -0.007 | 27987 | 223.4 | NS | --- | | | --- | |
| Total CollAve (5 peaks): | | | | 196.7 | Total Col2Ave (4 peaks): | | | | 218.7 | RPD = 11 | |
| Corrected Ave (4 peaks): | | | | 190.0 | Corrected Ave (3 peaks): | | | | 196.9 | RPD = 4 | |
| Aroclor-1262 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 | |
| Aroclor-1262 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 | |
| Aroclor-1262 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 | |
| Aroclor-1262 | 4 | --- | | | 0.0 | 4 | --- | | | 0.0 | |
| CollAve: <3 Quant Peaks | | | | | Col2Ave: <3 Quant Peaks | | | | | | |
| Aroclor-1268 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 | |
| Aroclor-1268 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 | |
| Aroclor-1268 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 | |
| Aroclor-1268 | 4 | --- | | | 0.0 | 4 | --- | | | 0.0 | |
| CollAve: <3 Quant Peaks | | | | | Col2Ave: <3 Quant Peaks | | | | | | |

Total PCB Area Col1 (5.907 - 13.789) = 2390043 Col1 Total PCB = 0.5 ppm*
Total PCB Area Col2 (5.783 - 14.016) = 2116670 Col2 Total PCB = 0.6 ppm*

* Quantitated against AR1660 0.25ppm in Ical

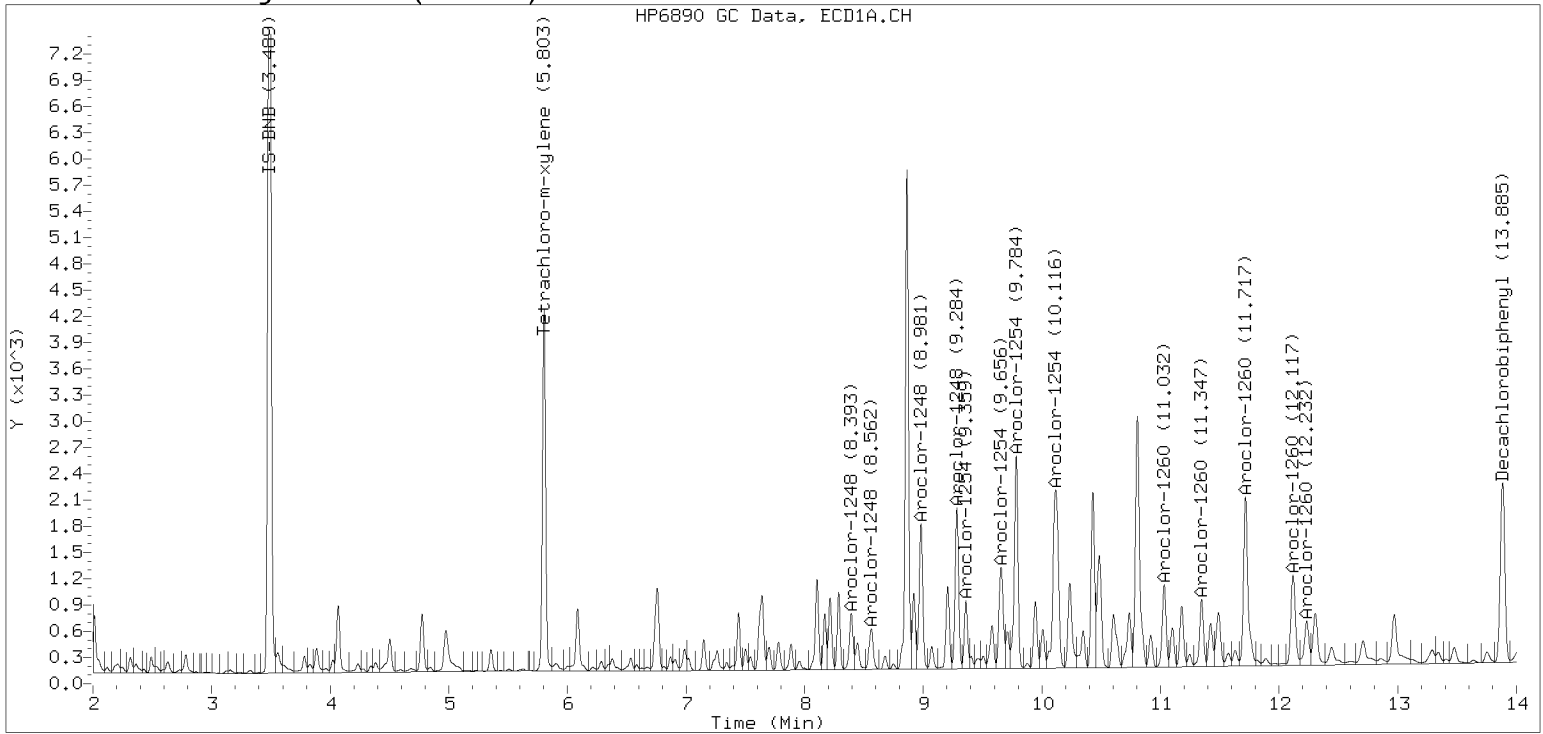
PCB-Form 10 Mod.

Manual Peak Adjustment, ZB-5

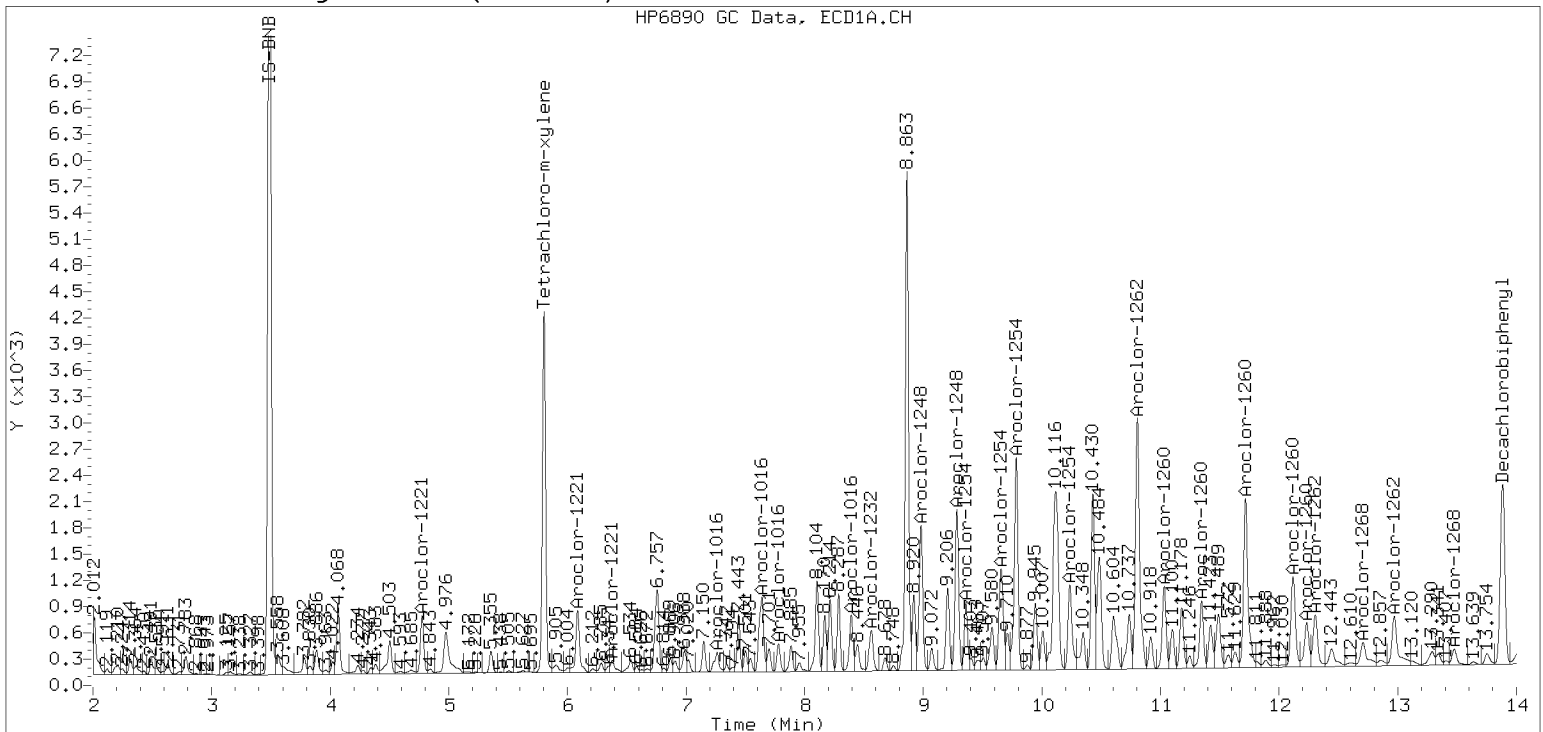
Datafile: ecd7.i/230204.b/02042349ECD7.D

Injection Date: 05-FEB-2023 08:47

Manual Integration (After)



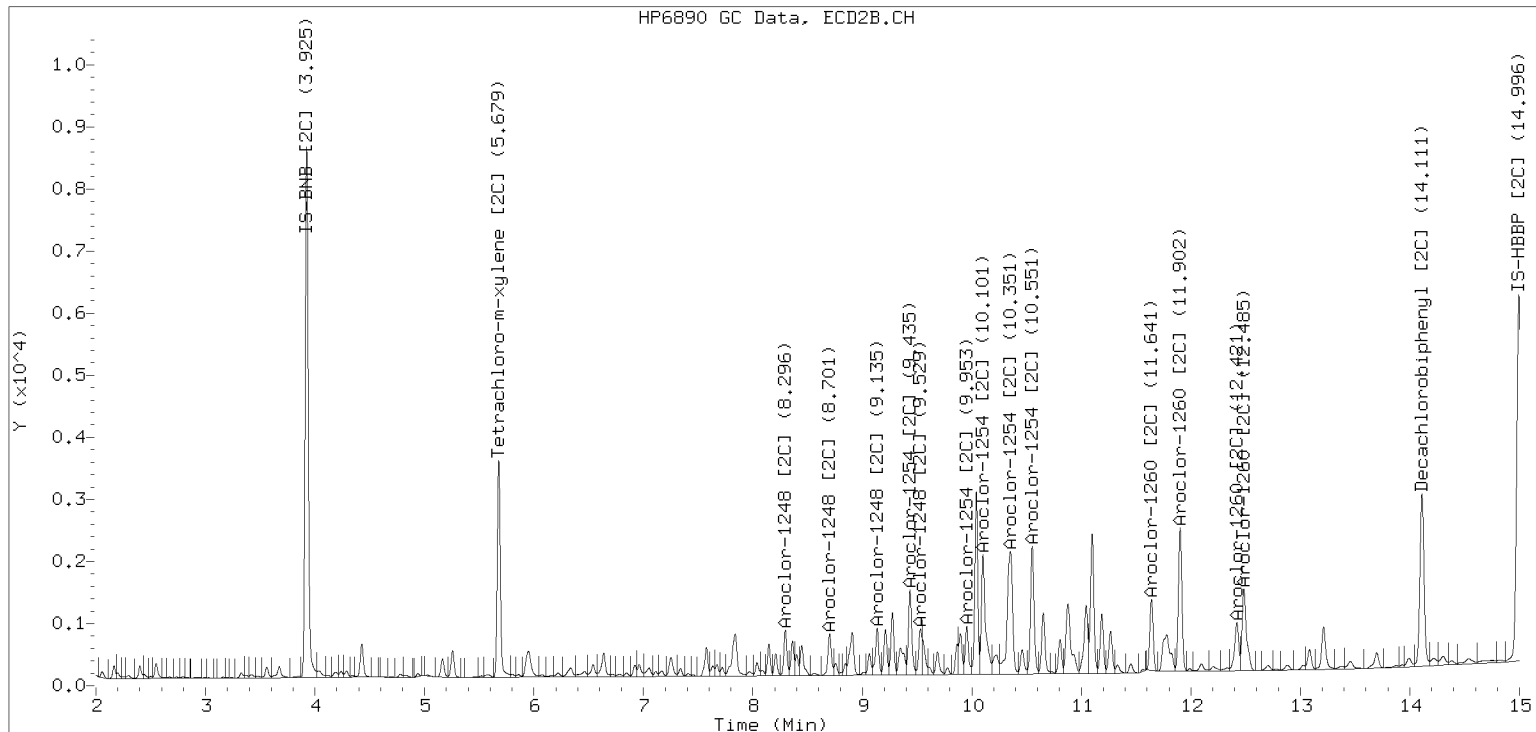
Processed Integration (Before)



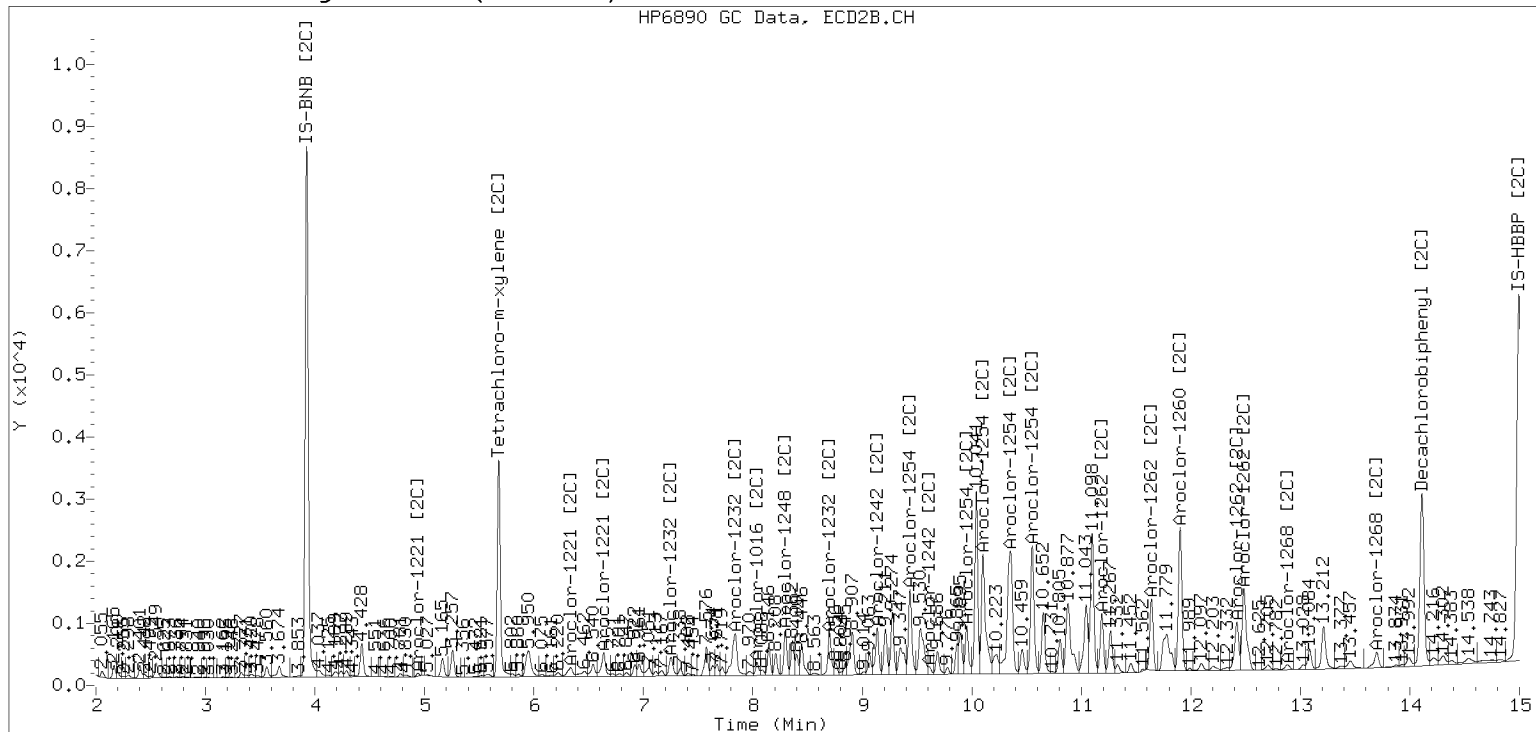
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230204.b/230204.b/02042349ECD7.D Injection Date: 05-FEB-2023

Manual Integration (After)



Processed Integration (Before)





ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Matrix: Solid

Laboratory ID: 23A0180-10 A

File ID: 02062335ECD7.D

Sampled: 01/10/23 12:26

Prepared: 01/26/23 14:06

Analyzed: 02/06/23 21:28

% Solids: 52.79

Preparation: EPA 3546 (Microwave)

Initial/Final: 23.7 g Wet / 2.5 mL

Batch: BLA0559

Sequence: SLB0086

Calibration: GA00061

Instrument: ECD7

Column 1: ZB5

Column 2: ZB35

| CAS NO. | COMPOUND | Col # | DILUTION | CONC. (ug/kg dry) | MDL | MRL | Q |
|------------|--------------|-------|----------|-------------------|-----|-----|---|
| 12674-11-2 | Aroclor 1016 | 1 | 1 | 4.0 | 1.6 | 4.0 | U |
| 11104-28-2 | Aroclor 1221 | 1 | 1 | 4.0 | 1.6 | 4.0 | U |
| 11141-16-5 | Aroclor 1232 | 1 | 1 | 4.0 | 1.6 | 4.0 | U |
| 53469-21-9 | Aroclor 1242 | 1 | 1 | 4.0 | 1.6 | 4.0 | U |
| 12672-29-6 | Aroclor 1248 | 1 | 1 | 41.5 | 1.6 | 4.0 | |
| 11097-69-1 | Aroclor 1254 | 1 | 1 | 46.1 | 1.6 | 4.0 | |
| 11096-82-5 | Aroclor 1260 | 1 | 1 | 39.4 | 0.6 | 4.0 | |

| SURROGATES | Col # | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|------------------------------|-------|-------------------|------------------|-------|-----------|---|
| <i>Decachlorobiphenyl</i> | 1 | 7.9928 | 5.82 | 72.8 | 40 - 126 | |
| <i>Tetrachlorometaxylene</i> | 1 | 7.9928 | 5.25 | 65.7 | 44 - 120 | |

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

| | |
|--|-----------------------------------|
| Data file 1: /230206.b/02062335ECD7.D | ARI ID: 23A0180-10 |
| Data file 2: /230206.b/230206.b/02062335ECD7.D | Client ID: |
| Method: \\target\share\chem4\ecd7.i\230206.b\PCB.m | Injection Date: 06-FEB-2023 21:28 |
| Compound Sublist: PCB.sub | Report Date: 02/07/2023 10:36 |
| Instrument, Inj. Vol.: ecd7.i, 2ul | Matrix: NONE |
| Quant Method: Internal Std | Dilution Factor: 1.0 |

SURROGATES

| ZB5 Col | | ZB35 Col | | | ZB5 | ZB35 | RPD | Compound/Flag | |
|---------|--------|----------|--------|--------|----------|--------|------|---------------|----------------------|
| RT | Shift | Response | RT | Shift | Response | on col | | | on col |
| 5.807 | -0.002 | 131370 | 5.683 | -0.001 | 113495 | 26.3 | 28.8 | 9.0 | Tetrachloro-m-xylene |
| 13.884 | -0.008 | 96613 | 14.113 | -0.004 | 129418 | 29.1 | 29.4 | 1.0 | Decachlorobiphenyl |

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1 | | | |
|--------------------|----------------|-------------|----------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 503318 | 353519 | -29.8 |
| Hexabromobiphenyl | 647433 | 310402 | -52.1 <- |

| Column 2 | | | |
|--------------------|----------------|-------------|-------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 336911 | 291752 | -13.4 |
| Hexabromobiphenyl | 382032 | 277305 | -27.4 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-JAN-2023
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | ZB35 Col | | | | | |
|--------------------------|-------|--------|--------|----------------|--------------------------|-------|--------|--------|--------|----------|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount |
| Aroclor-1016 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 |
| Aroclor-1016 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 |
| Aroclor-1016 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 |
| Aroclor-1016 | 4 | --- | | | 0.0 | 4 | --- | | | 0.0 |
| CollAve: <3 Quant Peaks | | | | | Col2Ave: <3 Quant Peaks | | | | | |
| Aroclor-1221 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 |
| Aroclor-1221 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 |
| Aroclor-1221 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 |
| CollAve: <3 Quant Peaks | | | | | Col2Ave: <3 Quant Peaks | | | | | |
| Aroclor-1232 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 |
| Aroclor-1232 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 |
| Aroclor-1232 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 |
| Aroclor-1232 | 4 | --- | | | 0.0 | 4 | --- | | | 0.0 |
| CollAve: <3 Quant Peaks | | | | | Col2Ave: <3 Quant Peaks | | | | | |
| Aroclor-1242 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 |
| Aroclor-1242 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 |
| Aroclor-1242 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 |
| Aroclor-1242 | 4 | --- | | | 0.0 | 4 | --- | | | 0.0 |
| CollAve: <3 Quant Peaks | | | | | Col2Ave: <3 Quant Peaks | | | | | |
| Aroclor-1248 | 1 | 8.396 | -0.010 | 31243 | 176.7 | 1 | 8.299 | -0.004 | 29221 | 221.6 |
| Aroclor-1248 | 2 | 8.564 | -0.016 | 24676 | 109.4 | 2 | 8.705 | -0.005 | 27798 | 195.8 |
| Aroclor-1248 | 3 | 8.983 | -0.016 | 74622 | 172.9 | 3 | 9.137 | -0.015 | 36350 | 209.6 |
| Aroclor-1248 | 4 | 9.285 | -0.008 | 79365 | 371.6 | 4 | 9.532 | -0.044 | 55737 | 259.8 |
| Total CollAve (4 peaks): | | | | 207.6 | Total Col2Ave (4 peaks): | | | | 221.7 | RPD = 7 |
| Corrected Ave (3 peaks): | | | | 153.0 | Corrected Ave (3 peaks): | | | | 209.0 | RPD = 31 |
| Aroclor-1254 | 1 | 9.285 | -0.014 | 79365 | 220.3 | 1 | 9.437 | -0.008 | 62413 | 294.9 |
| Aroclor-1254 | 2 | 9.360 | -0.017 | 32239 | 209.6 | 2 | 9.955 | -0.009 | 31822 | 186.0 |
| Aroclor-1254 | 3 | 9.656 | -0.014 | 58213 | 252.2 | 3 | 10.103 | -0.011 | 109434 | 293.2 |
| Aroclor-1254 | 4 | 9.785 | -0.023 | 108488 | 239.8 | 4 | 10.349 | -0.015 | 133571 | 357.9 |
| Aroclor-1254 | 5 | 10.122 | -0.055 | 65494 | 222.7 | 5 | 10.553 | -0.010 | 90519 | 435.5 |
| Total CollAve (5 peaks): | | | | 228.9 | Total Col2Ave (5 peaks): | | | | 313.5 | RPD = 31 |
| Corrected Ave (4 peaks): | | | | 223.1 | Corrected Ave (4 peaks): | | | | 283.0 | RPD = 24 |
| | | | | 230.475 | | | | | | |
| Aroclor-1260 | 1 | 11.031 | -0.012 | 38157 | 219.1 | 1 | 11.641 | -0.007 | 49230 | 246.1 |
| Aroclor-1260 | 2 | 11.347 | -0.014 | 32033 | 178.9 | 2 | 11.903 | -0.010 | 93684 | 185.1 |
| Aroclor-1260 | 3 | 11.717 | -0.018 | 85908 | 182.3 | 3 | 12.422 | -0.009 | 34577 | 274.1 |
| Aroclor-1260 | 4 | 12.118 | -0.021 | 48631 | 199.7 | 4 | 12.486 | -0.011 | 68140 | 208.0 |
| Aroclor-1260 | 5 | 12.232 | -0.011 | 21731 | 204.7 | NS | --- | | | ---- |
| Total CollAve (5 peaks): | | | | 196.9 | Total Col2Ave (4 peaks): | | | | 228.3 | RPD = 15 |
| Corrected Ave (4 peaks): | | | | 191.4 | Corrected Ave (3 peaks): | | | | 213.1 | RPD = 11 |
| Aroclor-1262 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 |
| Aroclor-1262 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 |
| Aroclor-1262 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 |
| Aroclor-1262 | 4 | --- | | | 0.0 | 4 | --- | | | 0.0 |
| CollAve: <3 Quant Peaks | | | | | Col2Ave: <3 Quant Peaks | | | | | |
| Aroclor-1268 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 |
| Aroclor-1268 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 |
| Aroclor-1268 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 |
| Aroclor-1268 | 4 | --- | | | 0.0 | 4 | --- | | | 0.0 |
| CollAve: <3 Quant Peaks | | | | | Col2Ave: <3 Quant Peaks | | | | | |

Total PCB Area Col1 (5.909 - 13.792) = 1901105 Col1 Total PCB = 0.5 ppm*
Total PCB Area Col2 (5.784 - 14.017) = 1822606 Col2 Total PCB = 0.6 ppm*

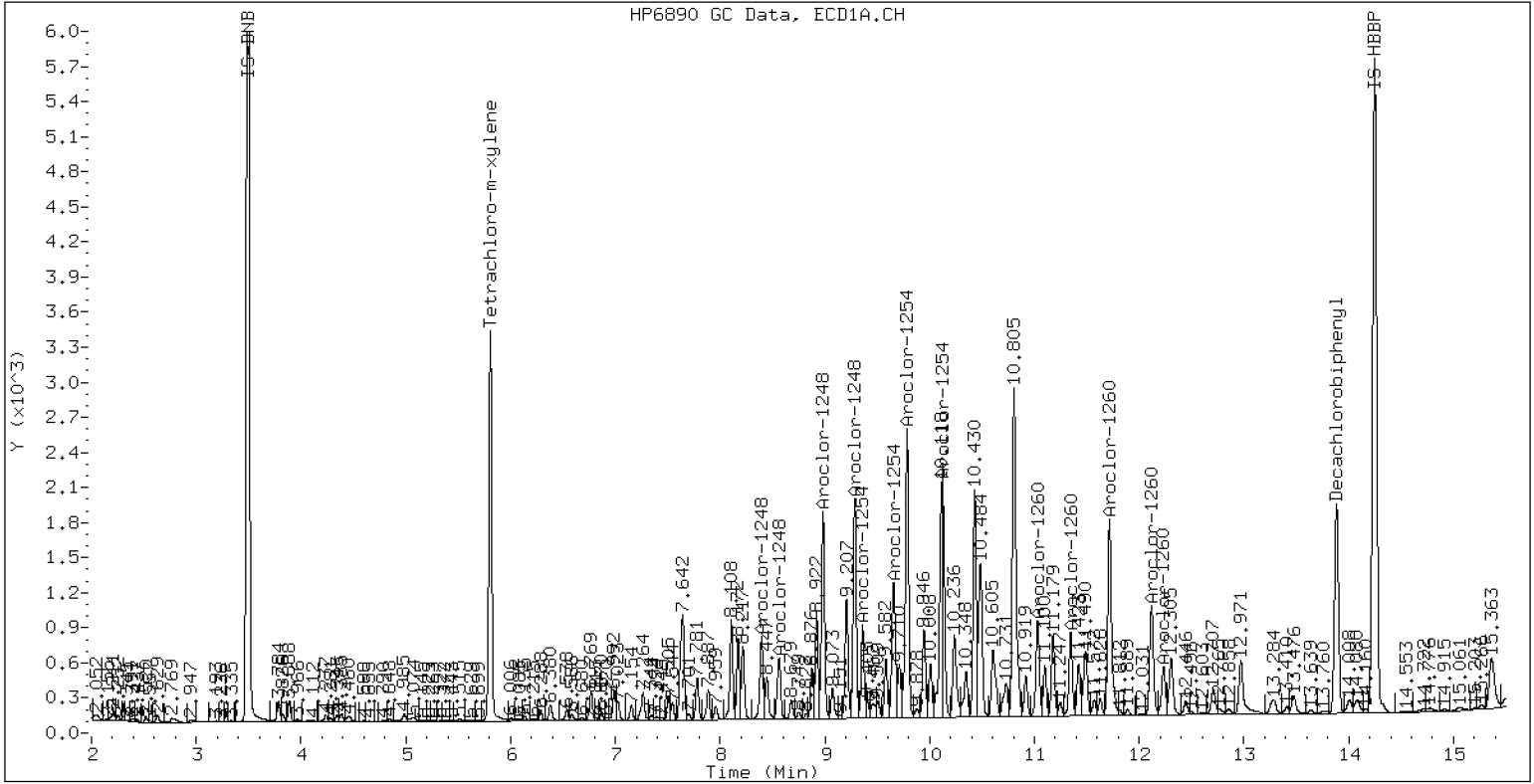
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 23A0180-10

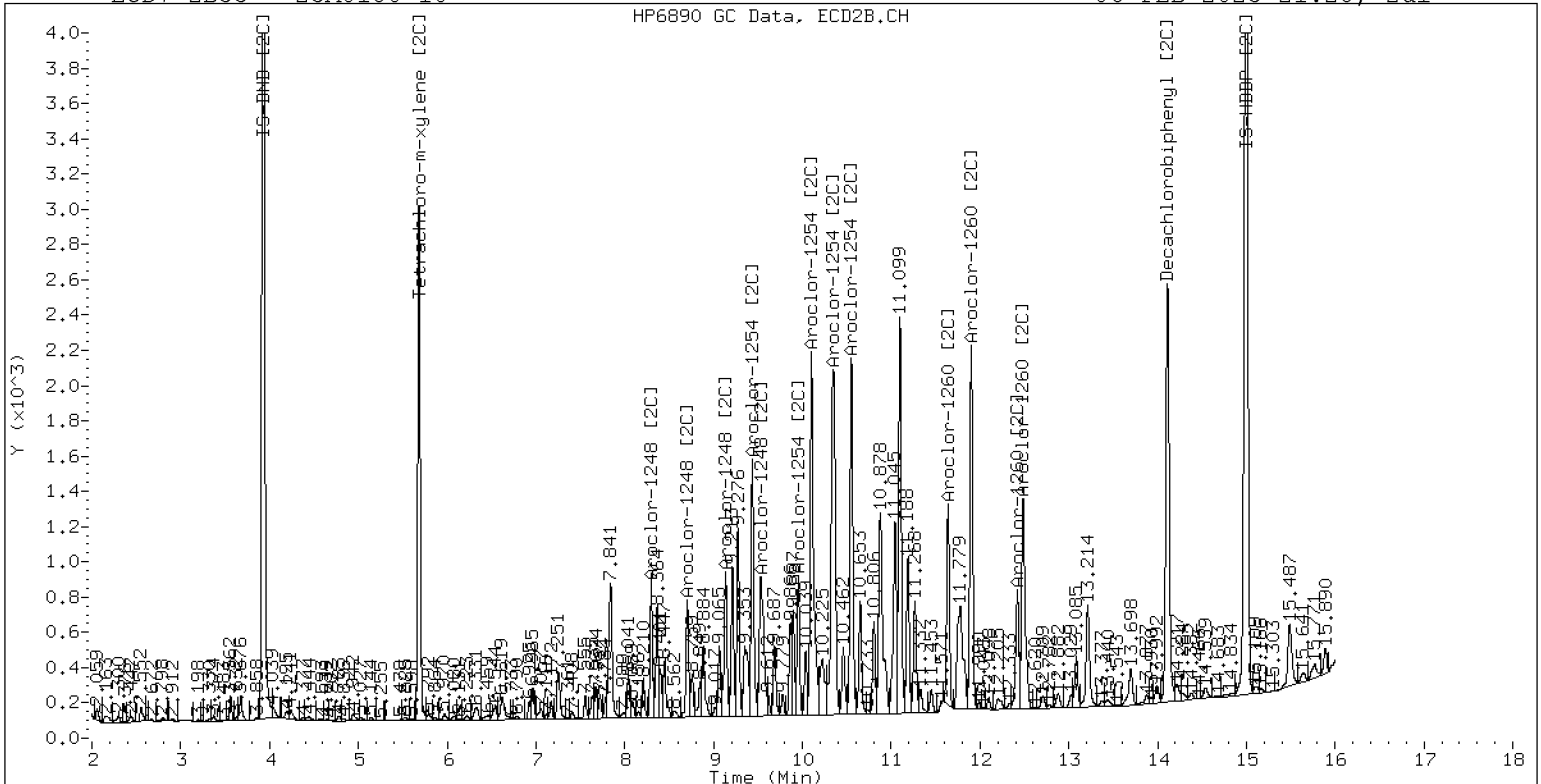
06-FEB-2023 21:28, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 23A0180-10

06-FEB-2023 21:28, 2ul



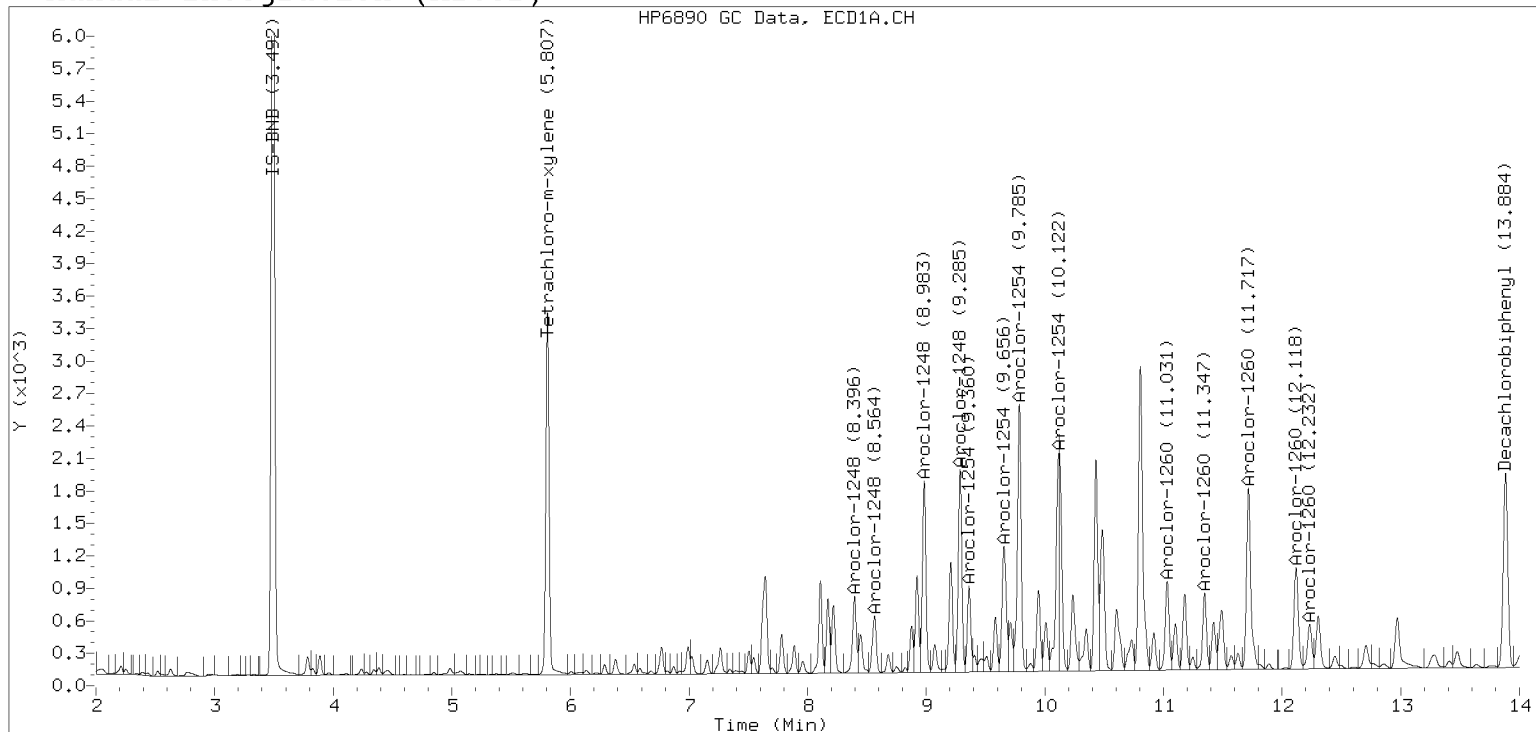
ZB-35 Manual Integration: YES

Manual Peak Adjustment, ZB-5

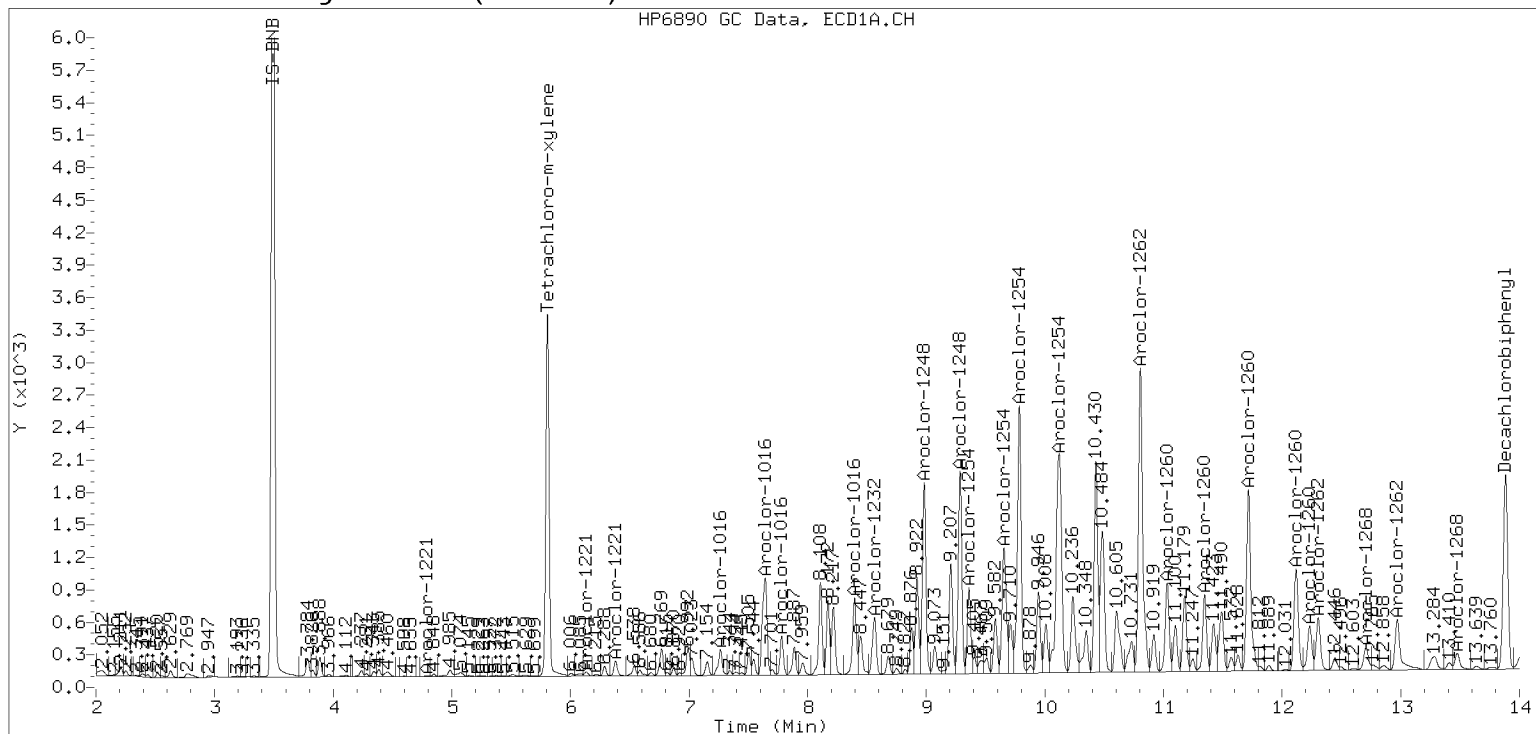
Datafile: ecd7.i/230206.b/02062335ECD7.D

Injection Date: 06-FEB-2023 21:28

Manual Integration (After)



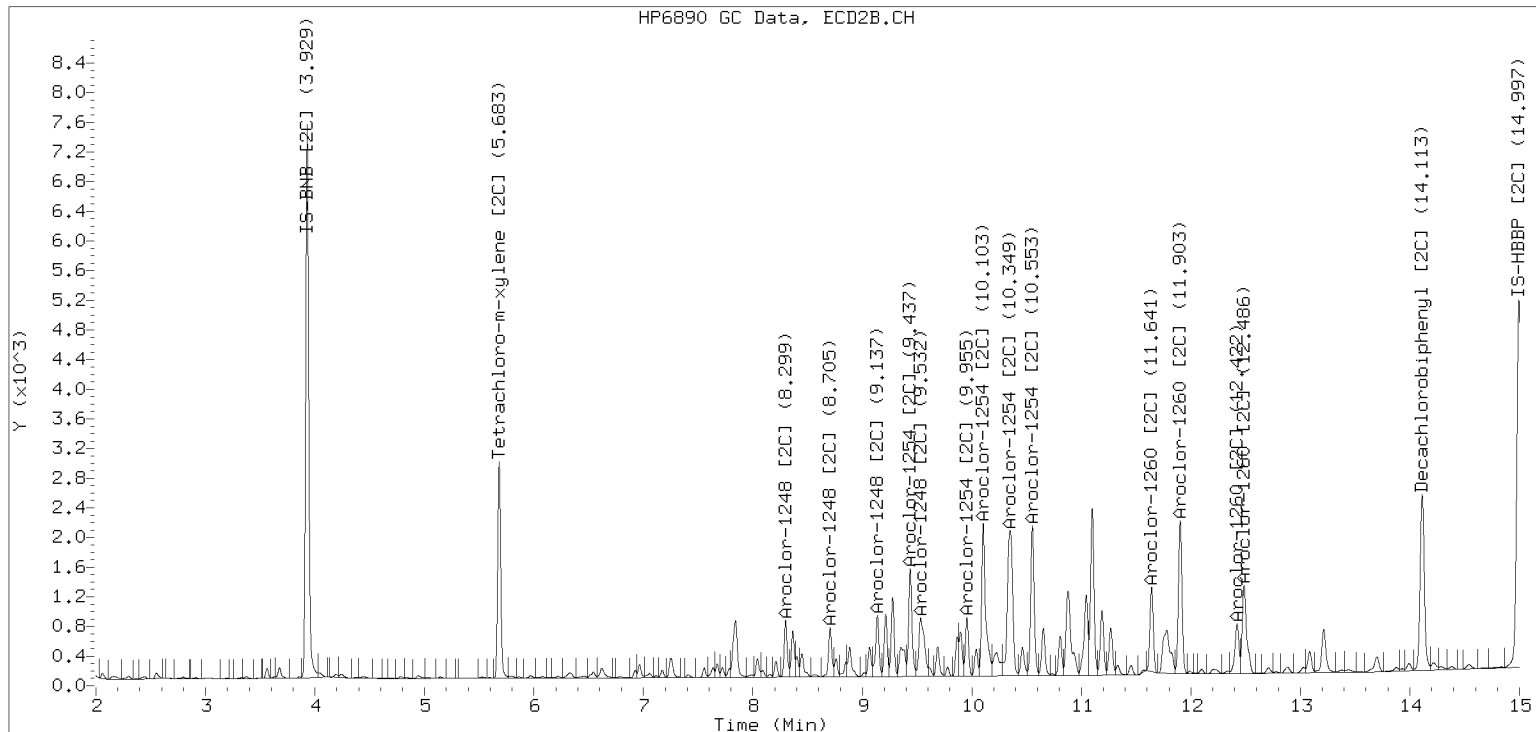
Processed Integration (Before)



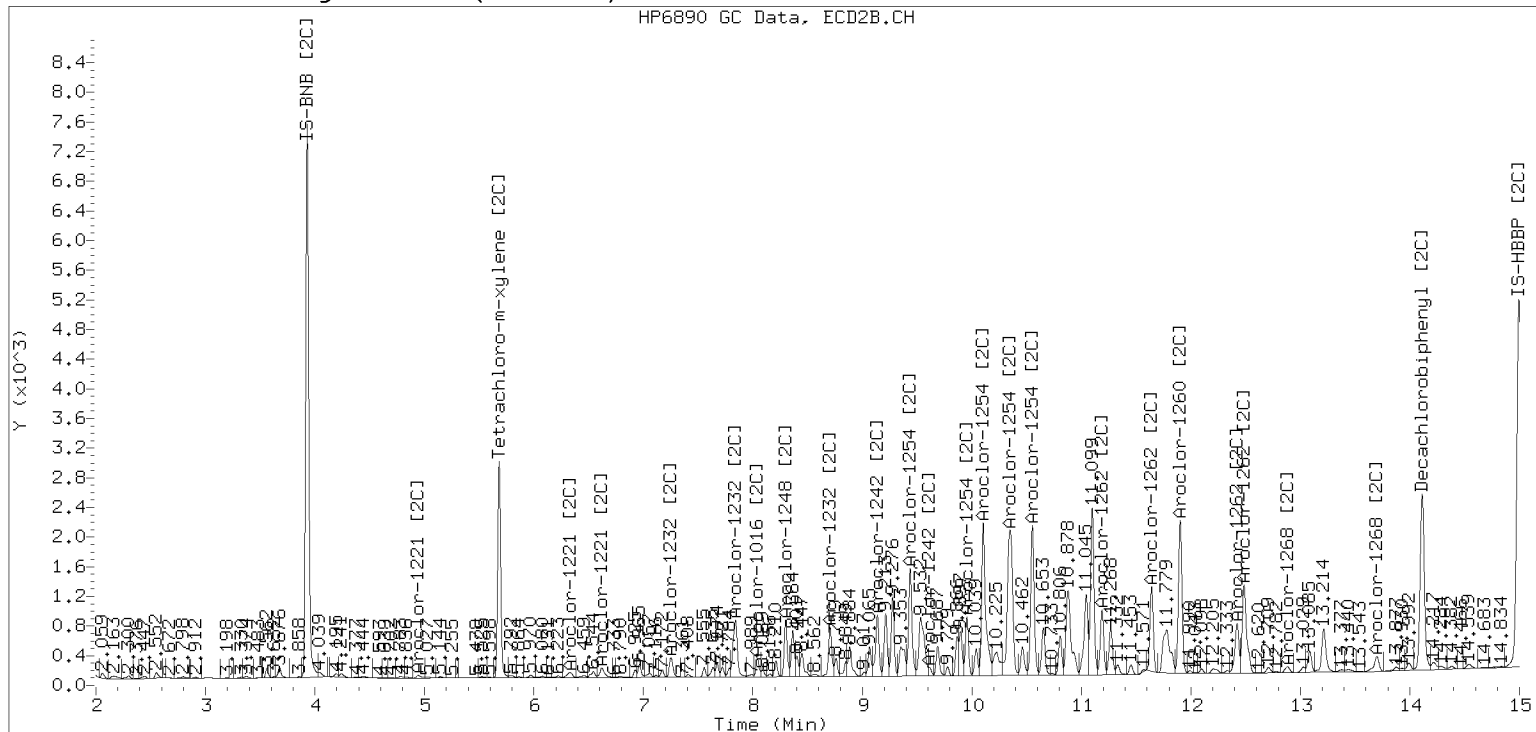
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230206.b/230206.b/02062335ECD7.D Injection Date: 06-FEB-2023

Manual Integration (After)



Processed Integration (Before)





ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory: Analytical Resources, LLC SDG: 23A0180
 Client: Anchor QEA, LLC
 Project: AOC5 MR Phase 1
 Matrix: Solid Laboratory ID: 23A0180-11 A File ID: 02062336ECD7.D
 Sampled: 01/10/23 12:51 Prepared: 01/26/23 14:06 Analyzed: 02/06/23 21:49
 % Solids: 51.60 Preparation: EPA 3546 (Microwave) Initial/Final: 24.29 g Wet / 2.5 mL
 Batch: BLA0559 Sequence: SLB0086 Calibration: GA00061
 Instrument: ECD7 Column 1: ZB5 Column 2: ZB35

| CAS NO. | COMPOUND | Col # | DILUTION | CONC. (ug/kg dry) | MDL | MRL | Q |
|------------|--------------|-------|----------|-------------------|-----|-----|---|
| 12674-11-2 | Aroclor 1016 | 1 | 1 | 4.0 | 1.6 | 4.0 | U |
| 11104-28-2 | Aroclor 1221 | 1 | 1 | 4.0 | 1.6 | 4.0 | U |
| 11141-16-5 | Aroclor 1232 | 1 | 1 | 4.0 | 1.6 | 4.0 | U |
| 53469-21-9 | Aroclor 1242 | 1 | 1 | 4.0 | 1.6 | 4.0 | U |
| 12672-29-6 | Aroclor 1248 | 1 | 1 | 60.7 | 1.6 | 4.0 | |
| 11097-69-1 | Aroclor 1254 | 1 | 1 | 62.2 | 1.6 | 4.0 | |
| 11096-82-5 | Aroclor 1260 | 1 | 1 | 61.8 | 0.6 | 4.0 | |

| SURROGATES | Col # | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|------------------------------|-------|-------------------|------------------|-------|-----------|---|
| <i>Decachlorobiphenyl</i> | 1 | 7.9785 | 5.80 | 72.7 | 40 - 126 | |
| <i>Tetrachlorometaxylene</i> | 1 | 7.9785 | 4.96 | 62.1 | 44 - 120 | |

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230206.b/02062336ECD7.D
Data file 2: /230206.b/230206.b/02062336ECD7.D
Method: \\target\share\chem4\ecd7.i\230206.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 23A0180-11
Client ID:
Injection Date: 06-FEB-2023 21:49
Report Date: 02/07/2023 10:36
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

| ZB5 Col | | ZB35 Col | | | ZB5 | ZB35 | RPD | Compound/Flag | |
|---------|--------|----------|--------|--------|----------|--------|------|---------------|----------------------|
| RT | Shift | Response | RT | Shift | Response | on col | | | on col |
| 5.806 | -0.003 | 135212 | 5.683 | -0.001 | 115902 | 24.9 | 27.3 | 9.2 | Tetrachloro-m-xylene |
| 13.884 | -0.008 | 104308 | 14.113 | -0.004 | 139712 | 29.1 | 28.9 | 0.5 | Decachlorobiphenyl |

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1 | | | |
|--------------------|----------------|-------------|-------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 503318 | 384791 | -23.5 |
| Hexabromobiphenyl | 647433 | 335231 | -48.2 |

| Column 2 | | | |
|--------------------|----------------|-------------|-------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 336911 | 314427 | -6.7 |
| Hexabromobiphenyl | 382032 | 304107 | -20.4 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-JAN-2023
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | ZB35 Col | | | | | |
|--------------------------|-------|--------|--------|--------|--------------------------|-------|--------|--------|--------|----------|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount |
| Aroclor-1016 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 |
| Aroclor-1016 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 |
| Aroclor-1016 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 |
| Aroclor-1016 | 4 | --- | | | 0.0 | 4 | --- | | | 0.0 |
| CollAve: <3 Quant Peaks | | | | | Col2Ave: <3 Quant Peaks | | | | | |
| Aroclor-1221 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 |
| Aroclor-1221 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 |
| Aroclor-1221 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 |
| CollAve: <3 Quant Peaks | | | | | Col2Ave: <3 Quant Peaks | | | | | |
| Aroclor-1232 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 |
| Aroclor-1232 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 |
| Aroclor-1232 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 |
| Aroclor-1232 | 4 | --- | | | 0.0 | 4 | --- | | | 0.0 |
| CollAve: <3 Quant Peaks | | | | | Col2Ave: <3 Quant Peaks | | | | | |
| Aroclor-1242 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 |
| Aroclor-1242 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 |
| Aroclor-1242 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 |
| Aroclor-1242 | 4 | --- | | | 0.0 | 4 | --- | | | 0.0 |
| CollAve: <3 Quant Peaks | | | | | Col2Ave: <3 Quant Peaks | | | | | |
| Aroclor-1248 | 1 | 8.393 | -0.012 | 59410 | 308.6 | 1 | 8.298 | -0.005 | 42909 | 301.9 |
| Aroclor-1248 | 2 | 8.563 | -0.017 | 39089 | 159.2 | 2 | 8.705 | -0.005 | 41874 | 273.7 |
| Aroclor-1248 | 3 | 8.982 | -0.017 | 117060 | 249.2 | 3 | 9.137 | -0.015 | 54343 | 290.7 |
| Aroclor-1248 | 4 | 9.285 | -0.009 | 116506 | 501.1 | 4 | 9.531 | -0.045 | 48087 | 208.0 |
| Total CollAve (4 peaks): | | | | 304.5 | Total Col2Ave (4 peaks): | | | | 268.6 | RPD = 13 |
| Corrected Ave (3 peaks): | | | | 239.0 | Corrected Ave (3 peaks): | | | | 257.5 | RPD = 7 |
| Aroclor-1254 | 1 | 9.285 | -0.014 | 116506 | 297.1 | 1 | 9.437 | -0.007 | 90907 | 398.5 |
| Aroclor-1254 | 2 | 9.360 | -0.017 | 46968 | 280.5 | 2 | 9.955 | -0.009 | 48265 | 261.8 |
| Aroclor-1254 | 3 | 9.655 | -0.015 | 85713 | 341.1 | 3 | 10.104 | -0.011 | 162489 | 404.0 |
| Aroclor-1254 | 4 | 9.785 | -0.024 | 161421 | 327.8 | 4 | 10.350 | -0.014 | 191568 | 476.3 |
| Aroclor-1254 | 5 | 10.119 | -0.058 | 197503 | 616.9 | 5 | 10.553 | -0.009 | 135653 | 605.6 |
| Total CollAve (5 peaks): | | | | 372.7 | Total Col2Ave (5 peaks): | | | | 429.2 | RPD = 14 |
| Corrected Ave (4 peaks): | | | | 311.6 | Corrected Ave (4 peaks): | | | | 385.1 | RPD = 21 |
| Aroclor-1260 | 1 | 11.032 | -0.012 | 61787 | 328.5 | 1 | 11.642 | -0.006 | 77571 | 353.6 |
| Aroclor-1260 | 2 | 11.348 | -0.013 | 55327 | 286.2 | 2 | 11.904 | -0.008 | 143463 | 258.5 |
| Aroclor-1260 | 3 | 11.718 | -0.017 | 142453 | 279.9 | 3 | 12.422 | -0.009 | 57939 | 418.8 |
| Aroclor-1260 | 4 | 12.117 | -0.022 | 83837 | 318.8 | 4 | 12.487 | -0.010 | 105913 | 294.8 |
| Aroclor-1260 | 5 | 12.233 | -0.011 | 38579 | 336.5 | NS | --- | | | --- |
| Total CollAve (5 peaks): | | | | 310.0 | Total Col2Ave (4 peaks): | | | | 331.4 | RPD = 7 |
| Corrected Ave (4 peaks): | | | | 303.3 | Corrected Ave (3 peaks): | | | | 302.3 | RPD = 0 |
| Aroclor-1262 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 |
| Aroclor-1262 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 |
| Aroclor-1262 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 |
| Aroclor-1262 | 4 | --- | | | 0.0 | 4 | --- | | | 0.0 |
| CollAve: <3 Quant Peaks | | | | | Col2Ave: <3 Quant Peaks | | | | | |
| Aroclor-1268 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 |
| Aroclor-1268 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 |
| Aroclor-1268 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 |
| Aroclor-1268 | 4 | --- | | | 0.0 | 4 | --- | | | 0.0 |
| CollAve: <3 Quant Peaks | | | | | Col2Ave: <3 Quant Peaks | | | | | |

Total PCB Area Col1 (5.909 - 13.792) = 3086158 Col1 Total PCB = 0.7 ppm*

Total PCB Area Col2 (5.784 - 14.017) = 2763657 Col2 Total PCB = 0.8 ppm*

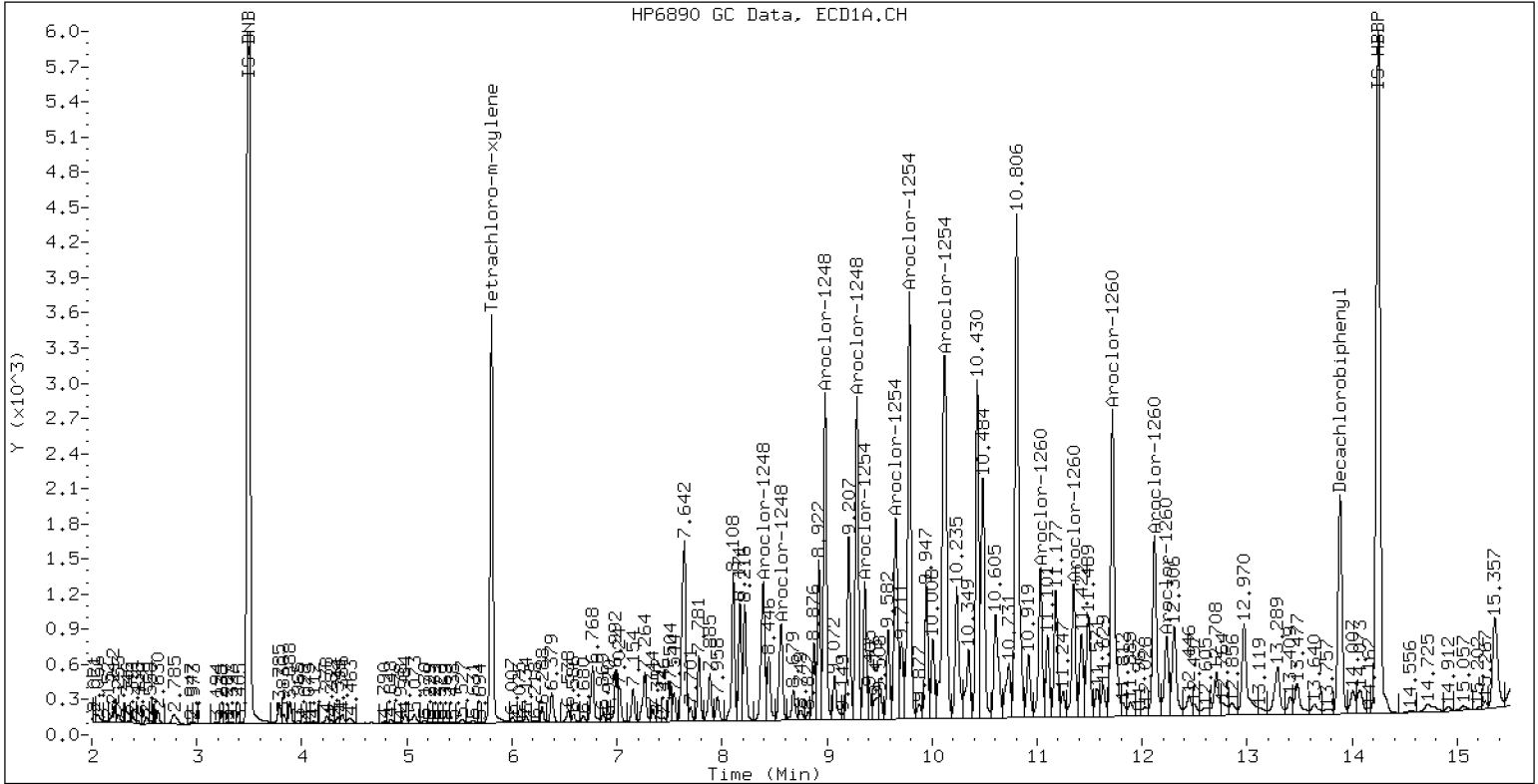
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 23A0180-11

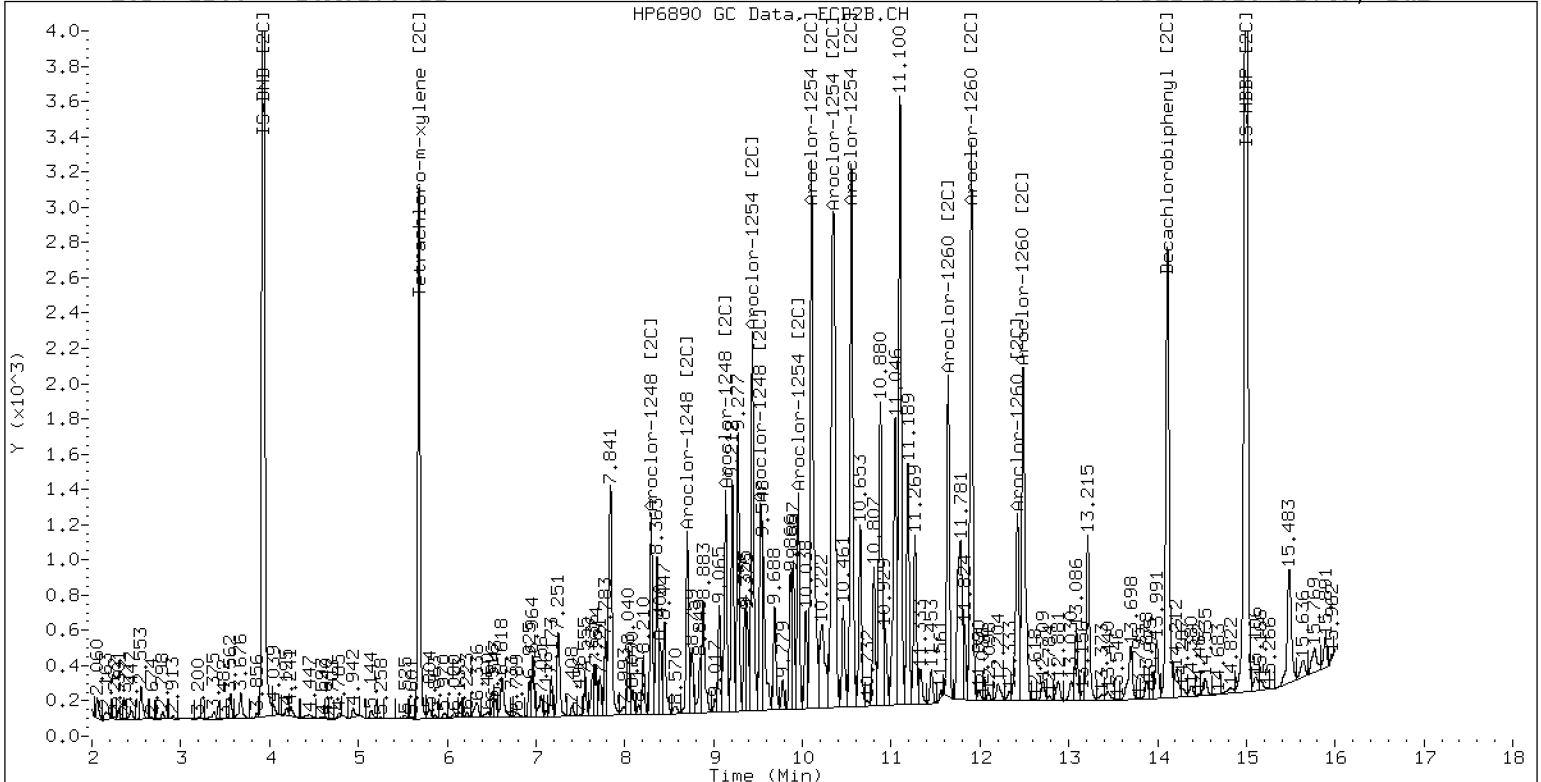
06-FEB-2023 21:49, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 23A0180-11

06-FEB-2023 21:49, 2ul



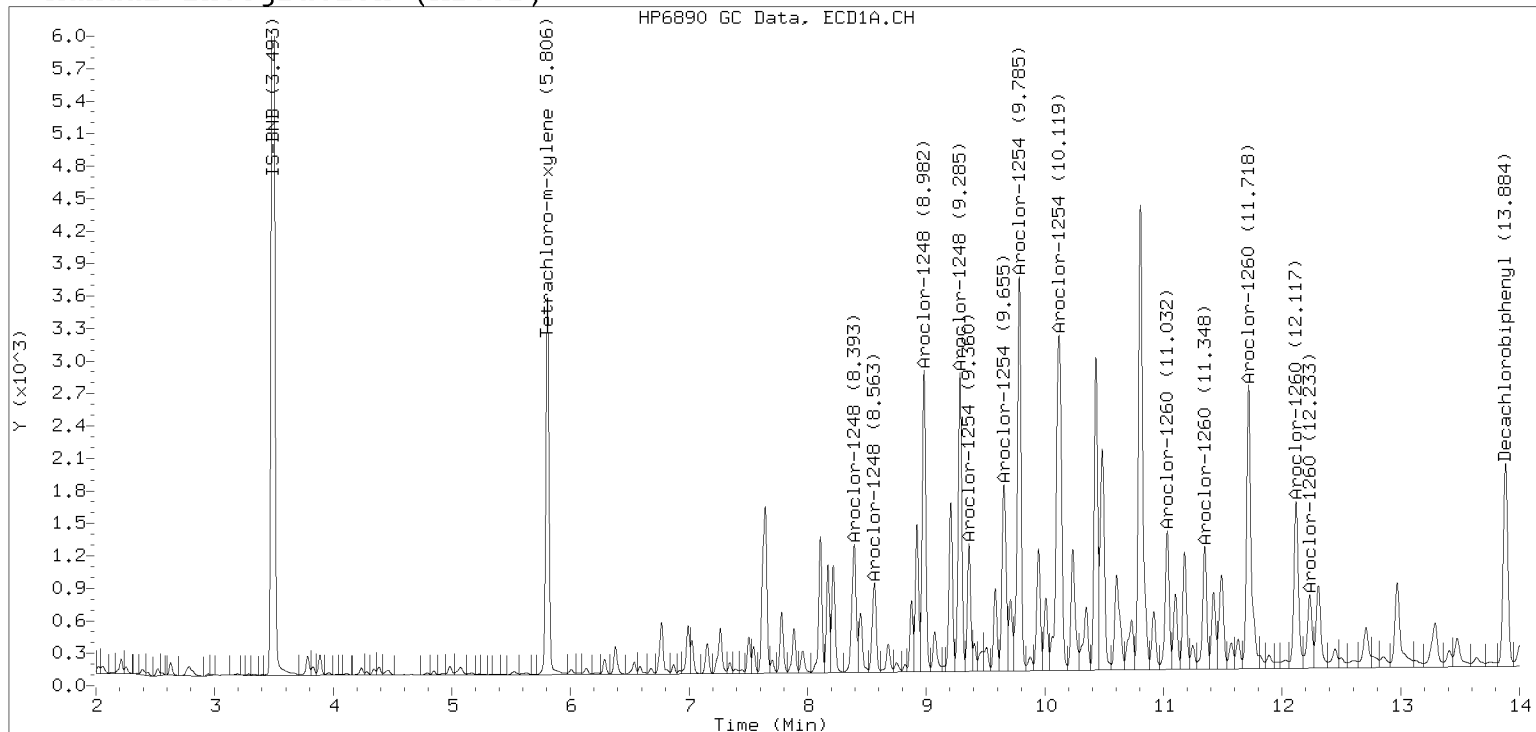
ZB-35 Manual Integration: YES

Manual Peak Adjustment, ZB-5

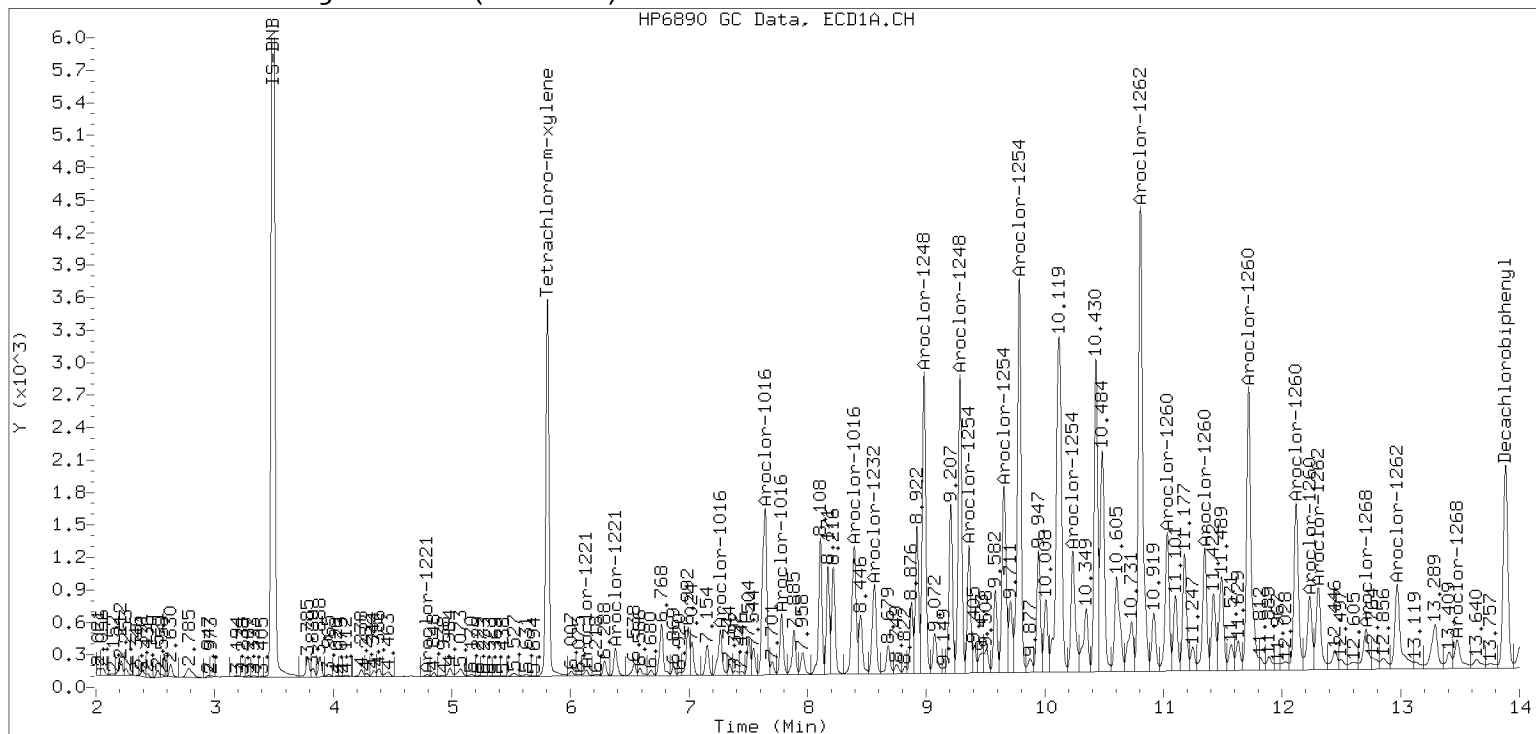
Datafile: ecd7.i/230206.b/02062336ECD7.D

Injection Date: 06-FEB-2023 21:49

Manual Integration (After)



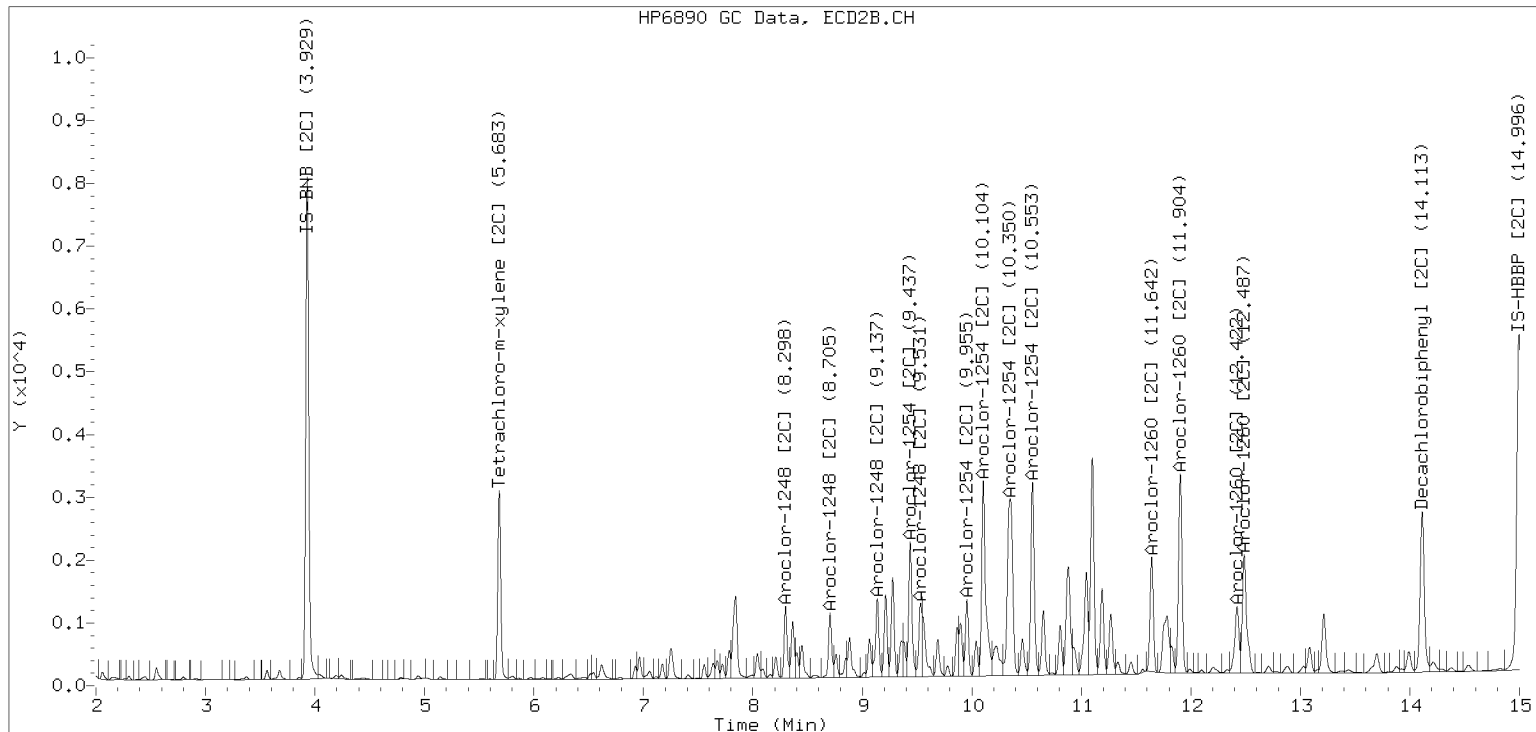
Processed Integration (Before)



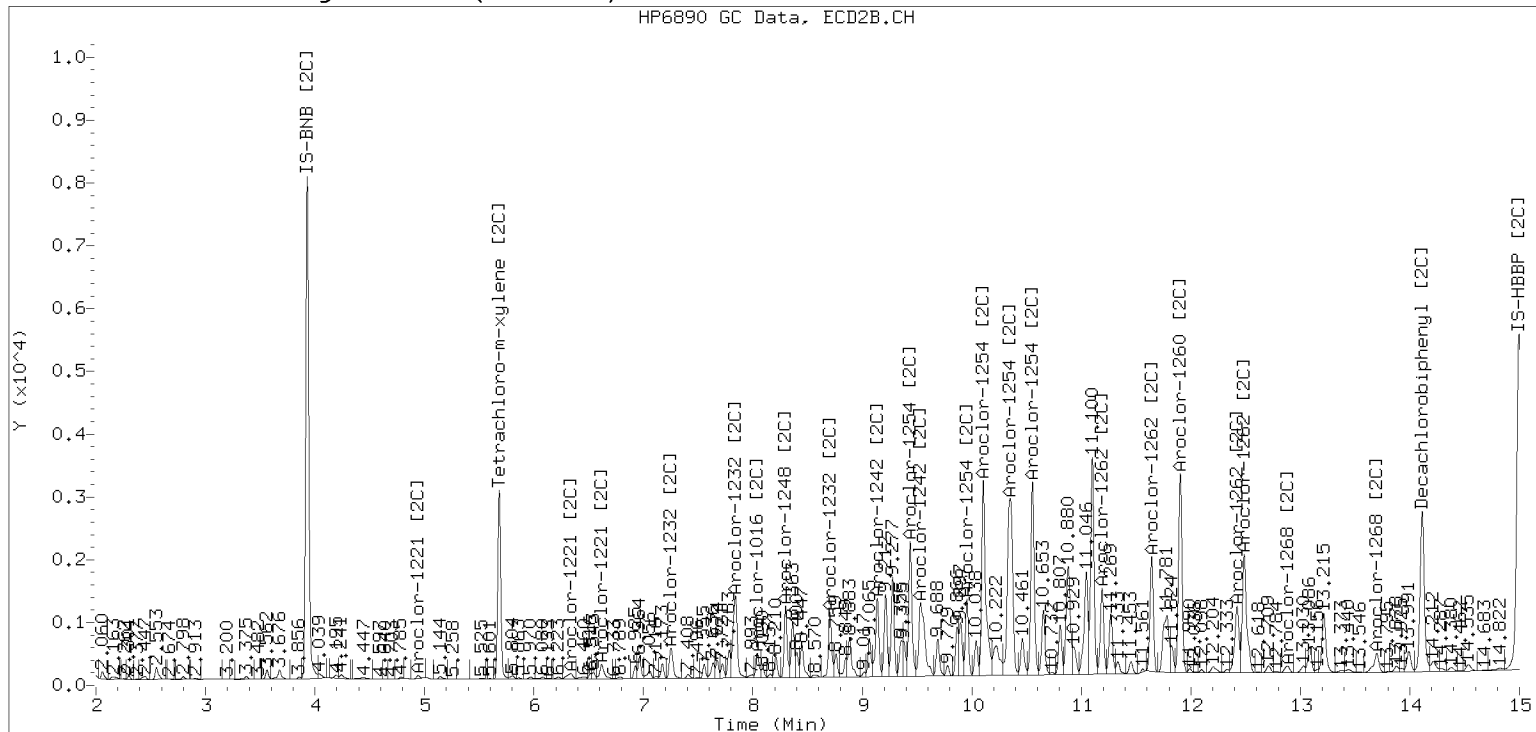
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230206.b/230206.b/02062336ECD7.D Injection Date: 06-FEB-2023

Manual Integration (After)



Processed Integration (Before)





ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory: Analytical Resources, LLC SDG: 23A0180
 Client: Anchor QEA, LLC
 Project: AOC5 MR Phase 1
 Matrix: Solid Laboratory ID: 23A0180-12 A File ID: 02062337ECD7.D
 Sampled: 01/10/23 13:23 Prepared: 01/26/23 14:06 Analyzed: 02/06/23 22:10
 % Solids: 48.24 Preparation: EPA 3546 (Microwave) Initial/Final: 25.92 g Wet / 2.5 mL
 Batch: BLA0559 Sequence: SLB0086 Calibration: GA00061
 Instrument: ECD7 Column 1: ZB5 Column 2: ZB35

| CAS NO. | COMPOUND | Col # | DILUTION | CONC. (ug/kg dry) | MDL | MRL | Q |
|------------|--------------|-------|----------|-------------------|-----|-----|---|
| 12674-11-2 | Aroclor 1016 | 1 | 1 | 4.0 | 1.6 | 4.0 | U |
| 11104-28-2 | Aroclor 1221 | 1 | 1 | 4.0 | 1.6 | 4.0 | U |
| 11141-16-5 | Aroclor 1232 | 1 | 1 | 4.0 | 1.6 | 4.0 | U |
| 53469-21-9 | Aroclor 1242 | 1 | 1 | 4.0 | 1.6 | 4.0 | U |
| 12672-29-6 | Aroclor 1248 | 1 | 1 | 35.1 | 1.6 | 4.0 | |
| 11097-69-1 | Aroclor 1254 | 1 | 1 | 41.3 | 1.6 | 4.0 | |
| 11096-82-5 | Aroclor 1260 | 1 | 1 | 43.3 | 0.6 | 4.0 | |

| SURROGATES | Col # | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|------------------------------|-------|-------------------|------------------|-------|-----------|---|
| <i>Decachlorobiphenyl</i> | 1 | 7.9976 | 6.35 | 79.5 | 40 - 126 | |
| <i>Tetrachlorometaxylene</i> | 1 | 7.9976 | 5.16 | 64.6 | 44 - 120 | |

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230206.b/02062337ECD7.D
Data file 2: /230206.b/230206.b/02062337ECD7.D
Method: \\target\share\chem4\ecd7.i\230206.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 23A0180-12
Client ID:
Injection Date: 06-FEB-2023 22:10
Report Date: 02/07/2023 10:36
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

| ZB5 Col | | ZB35 Col | | | ZB5 | ZB35 | RPD | Compound/Flag | |
|---------|--------|----------|--------|--------|----------|--------|------|---------------|----------------------|
| RT | Shift | Response | RT | Shift | Response | on col | | | on col |
| 5.806 | -0.003 | 132441 | 5.682 | -0.002 | 115315 | 25.8 | 27.7 | 7.0 | Tetrachloro-m-xylene |
| 13.884 | -0.008 | 102397 | 14.112 | -0.005 | 135882 | 31.8 | 31.0 | 2.3 | Decachlorobiphenyl |

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1 | | | |
|--------------------|----------------|-------------|----------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 503318 | 362848 | -27.9 |
| Hexabromobiphenyl | 647433 | 301261 | -53.5 <- |

| Column 2 | | | |
|--------------------|----------------|-------------|-------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 336911 | 307952 | -8.6 |
| Hexabromobiphenyl | 382032 | 275747 | -27.8 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-JAN-2023
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | ZB35 Col | | | | | |
|--------------------------|-------|--------|--------|--------------|--------------------------|-------|--------|--------|--------|----------|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount |
| Aroclor-1016 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 |
| Aroclor-1016 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 |
| Aroclor-1016 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 |
| Aroclor-1016 | 4 | --- | | | 0.0 | 4 | --- | | | 0.0 |
| CollAve: <3 Quant Peaks | | | | | Col2Ave: <3 Quant Peaks | | | | | |
| Aroclor-1221 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 |
| Aroclor-1221 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 |
| Aroclor-1221 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 |
| CollAve: <3 Quant Peaks | | | | | Col2Ave: <3 Quant Peaks | | | | | |
| Aroclor-1232 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 |
| Aroclor-1232 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 |
| Aroclor-1232 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 |
| Aroclor-1232 | 4 | --- | | | 0.0 | 4 | --- | | | 0.0 |
| CollAve: <3 Quant Peaks | | | | | Col2Ave: <3 Quant Peaks | | | | | |
| Aroclor-1242 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 |
| Aroclor-1242 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 |
| Aroclor-1242 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 |
| Aroclor-1242 | 4 | --- | | | 0.0 | 4 | --- | | | 0.0 |
| CollAve: <3 Quant Peaks | | | | | Col2Ave: <3 Quant Peaks | | | | | |
| Aroclor-1248 | 1 | 8.396 | -0.009 | 25398 | 139.9 | 1 | 8.299 | -0.004 | 24735 | 177.7 |
| Aroclor-1248 | 2 | 8.564 | -0.016 | 21332 | 92.1 | 2 | 8.705 | -0.005 | 23081 | 154.0 |
| Aroclor-1248 | 3 | 8.982 | -0.017 | 66631 | 150.4 | 3 | 9.137 | -0.015 | 32512 | 177.6 |
| Aroclor-1248 | 4 | 9.286 | -0.008 | 69892 | 318.8 | 4 | 9.531 | -0.044 | 28596 | 126.3 |
| Total CollAve (4 peaks): | | | | 175.3 | Total Col2Ave (4 peaks): | | | | 158.9 | RPD = 10 |
| Corrected Ave (3 peaks): | | | | 127.5 | Corrected Ave (3 peaks): | | | | 152.6 | RPD = 18 |
| Aroclor-1254 | 1 | 9.286 | -0.013 | 69892 | 189.0 | 1 | 9.437 | -0.007 | 55386 | 247.9 |
| Aroclor-1254 | 2 | 9.361 | -0.017 | 29043 | 183.9 | 2 | 9.955 | -0.009 | 30259 | 167.6 |
| Aroclor-1254 | 3 | 9.657 | -0.013 | 57403 | 242.3 | 3 | 10.104 | -0.011 | 99009 | 251.3 |
| Aroclor-1254 | 4 | 9.785 | -0.023 | 98243 | 211.6 | 4 | 10.350 | -0.014 | 132091 | 335.3 |
| Aroclor-1254 | 5 | 10.121 | -0.057 | 57879 | 191.7 | 5 | 10.552 | -0.010 | 88720 | 404.4 |
| Total CollAve (5 peaks): | | | | 203.7 | Total Col2Ave (5 peaks): | | | | 281.3 | RPD = 32 |
| Corrected Ave (4 peaks): | | | | 194.1 | Corrected Ave (4 peaks): | | | | 250.5 | RPD = 25 |
| | | | | 206.7 | | | | | | |
| Aroclor-1260 | 1 | 11.032 | -0.012 | 39859 | 235.8 | 1 | 11.642 | -0.006 | 44818 | 225.3 |
| Aroclor-1260 | 2 | 11.347 | -0.014 | 31678 | 182.3 | 2 | 11.903 | -0.009 | 95779 | 190.3 |
| Aroclor-1260 | 3 | 11.717 | -0.017 | 98785 | 216.0 | 3 | 12.421 | -0.010 | 42509 | 338.9 |
| Aroclor-1260 | 4 | 12.118 | -0.021 | 49653 | 210.1 | 4 | 12.487 | -0.010 | 70976 | 217.9 |
| Aroclor-1260 | 5 | 12.233 | -0.011 | 24483 | 237.7 | NS | --- | | | ---- |
| Total CollAve (5 peaks): | | | | 216.4 | Total Col2Ave (4 peaks): | | | | 243.1 | RPD = 12 |
| Corrected Ave (4 peaks): | | | | 211.0 | Corrected Ave (3 peaks): | | | | 211.2 | RPD = 0 |
| Aroclor-1262 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 |
| Aroclor-1262 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 |
| Aroclor-1262 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 |
| Aroclor-1262 | 4 | --- | | | 0.0 | 4 | --- | | | 0.0 |
| CollAve: <3 Quant Peaks | | | | | Col2Ave: <3 Quant Peaks | | | | | |
| Aroclor-1268 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 |
| Aroclor-1268 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 |
| Aroclor-1268 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 |
| Aroclor-1268 | 4 | --- | | | 0.0 | 4 | --- | | | 0.0 |
| CollAve: <3 Quant Peaks | | | | | Col2Ave: <3 Quant Peaks | | | | | |

Total PCB Area Col1 (5.909 - 13.792) = 1857645 Col1 Total PCB = 0.4 ppm*

Total PCB Area Col2 (5.784 - 14.017) = 1756346 Col2 Total PCB = 0.5 ppm*

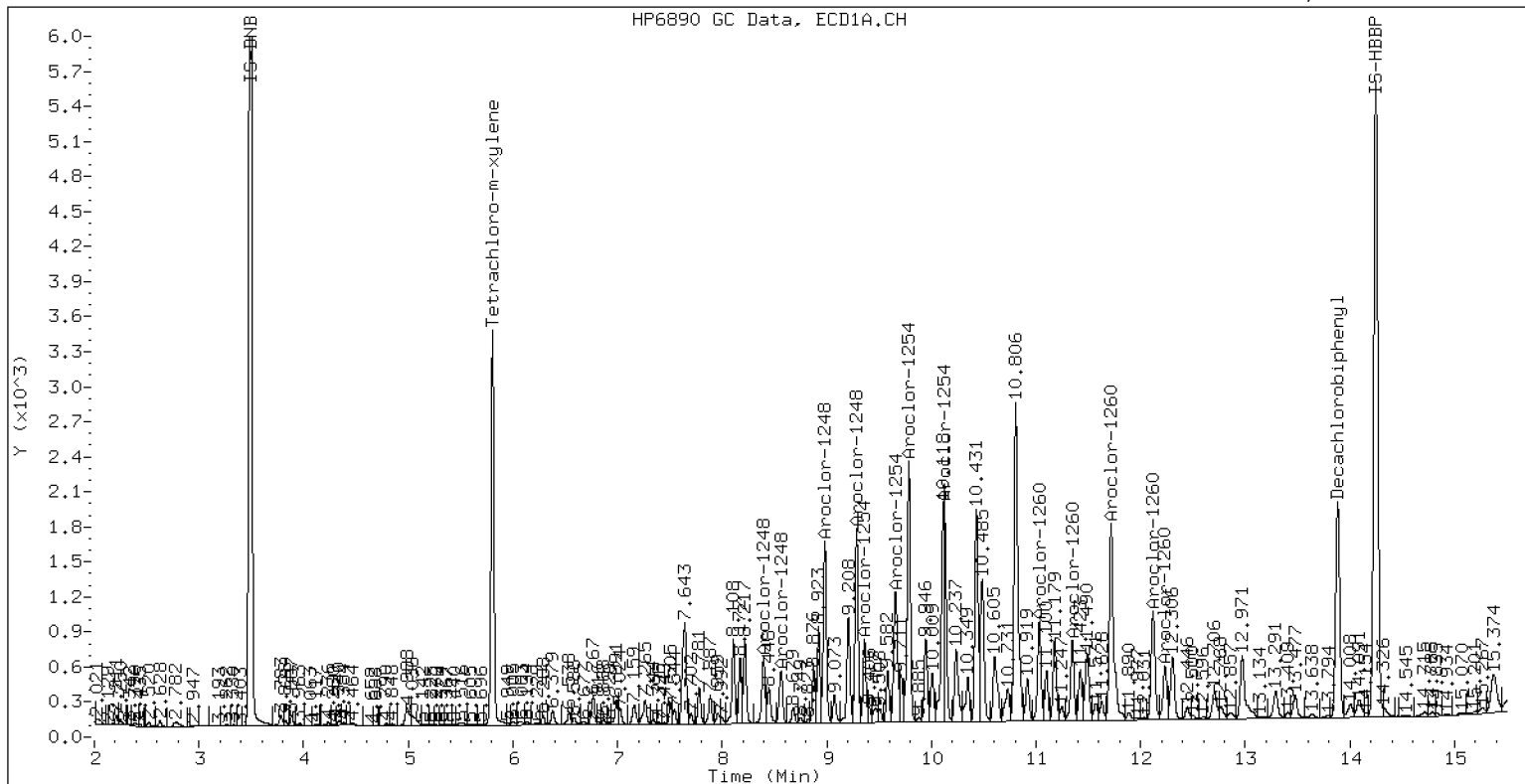
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 23A0180-12

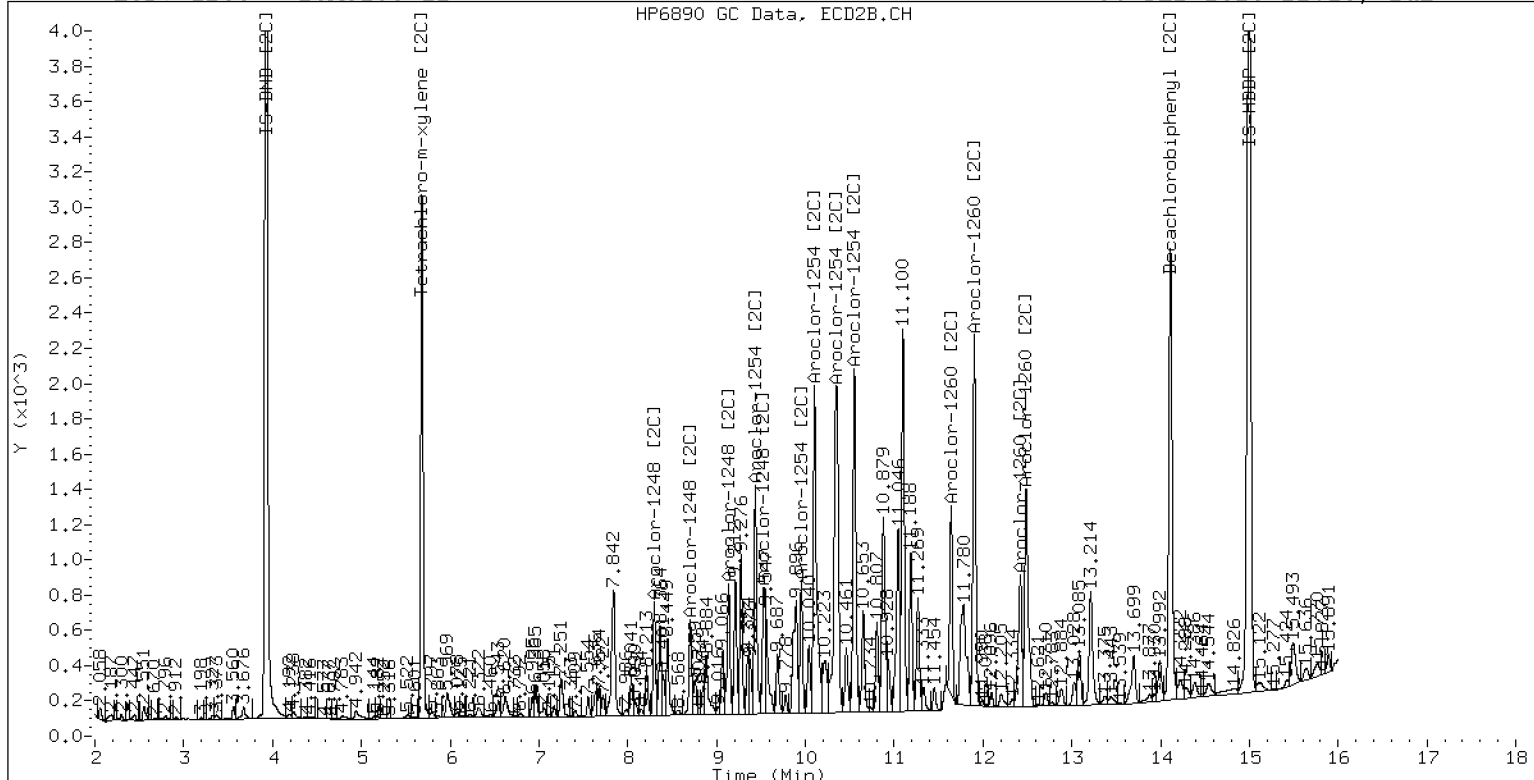
06-FEB-2023 22:10, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 23A0180-12

06-FEB-2023 22:10, 2ul



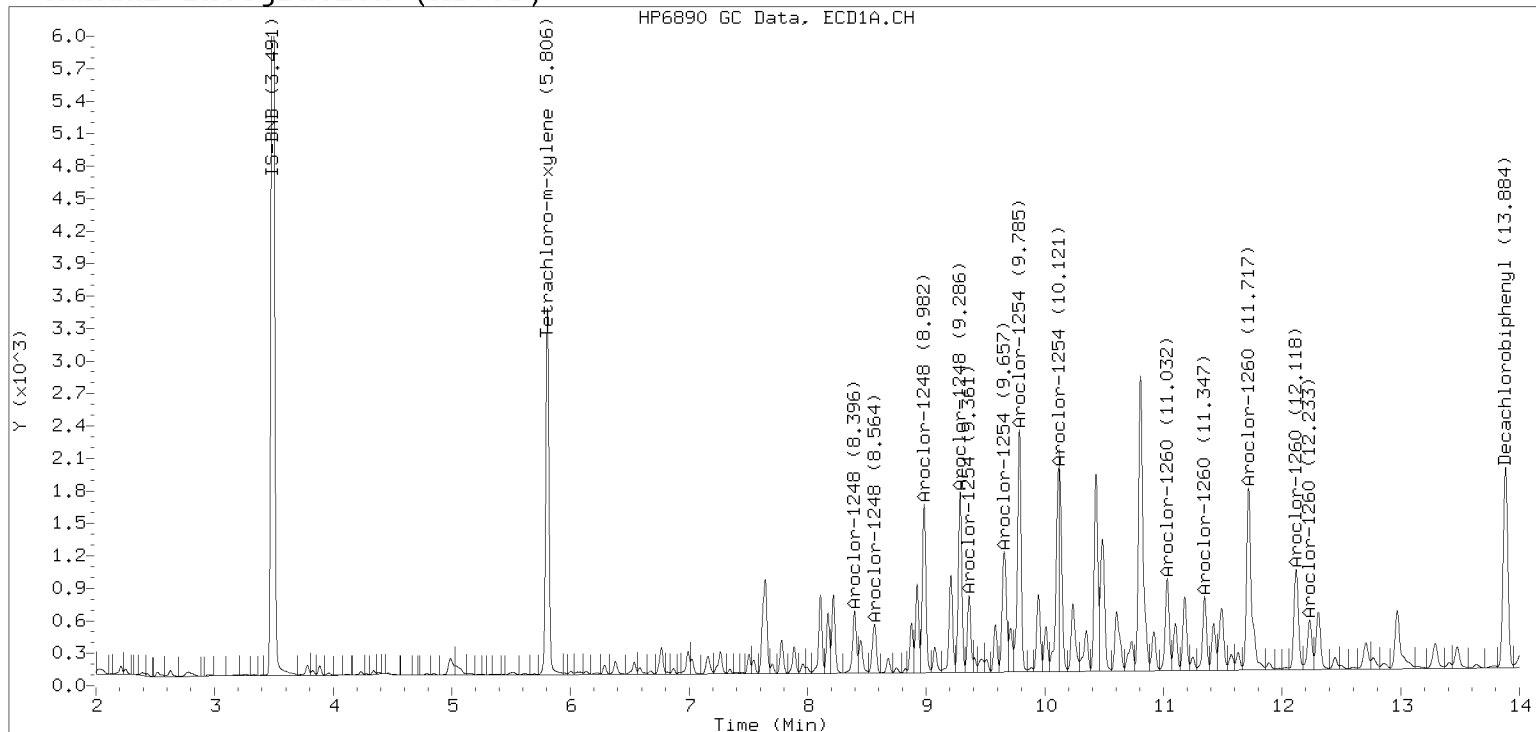
ZB-35 Manual Integration: YES

Manual Peak Adjustment, ZB-5

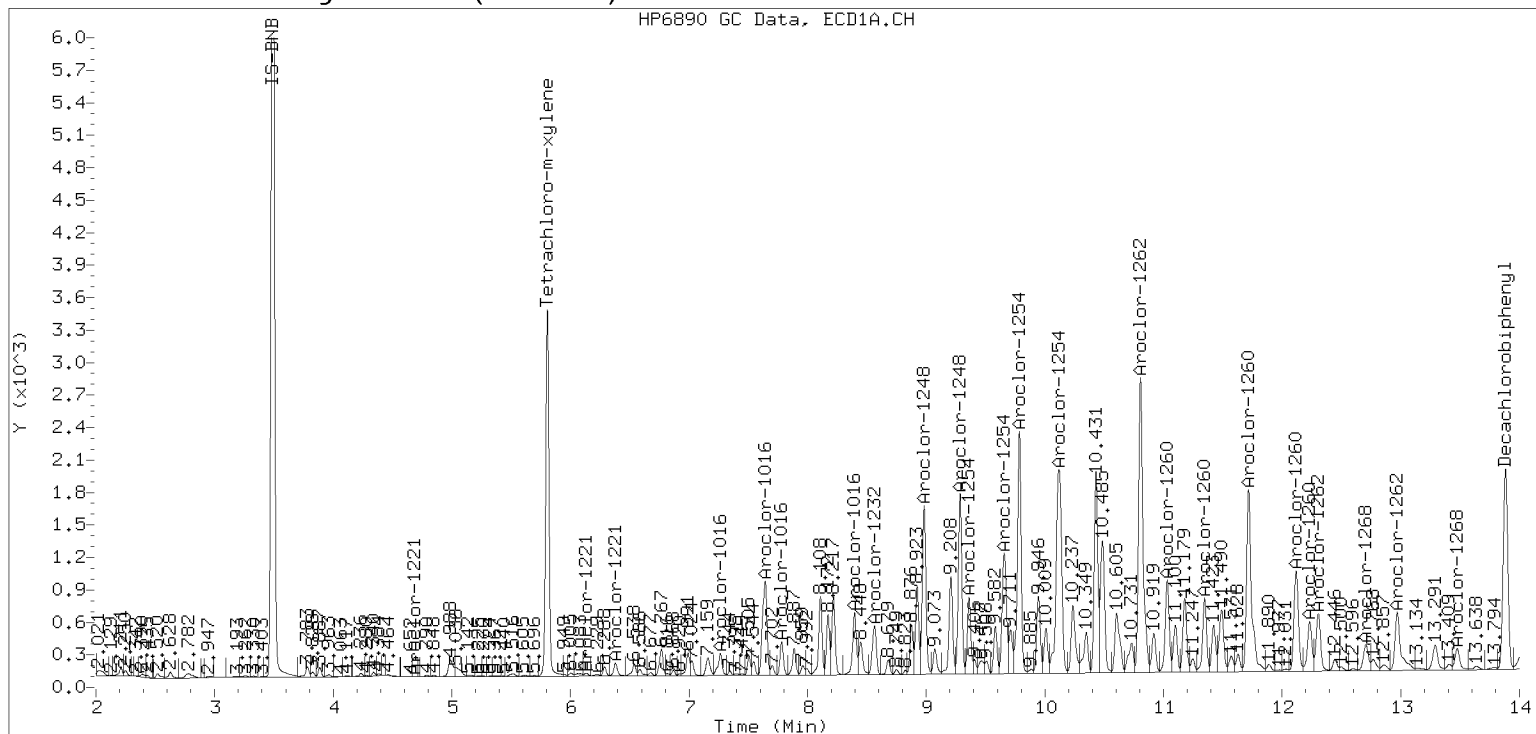
Datafile: ecd7.i/230206.b/02062337ECD7.D

Injection Date: 06-FEB-2023 22:10

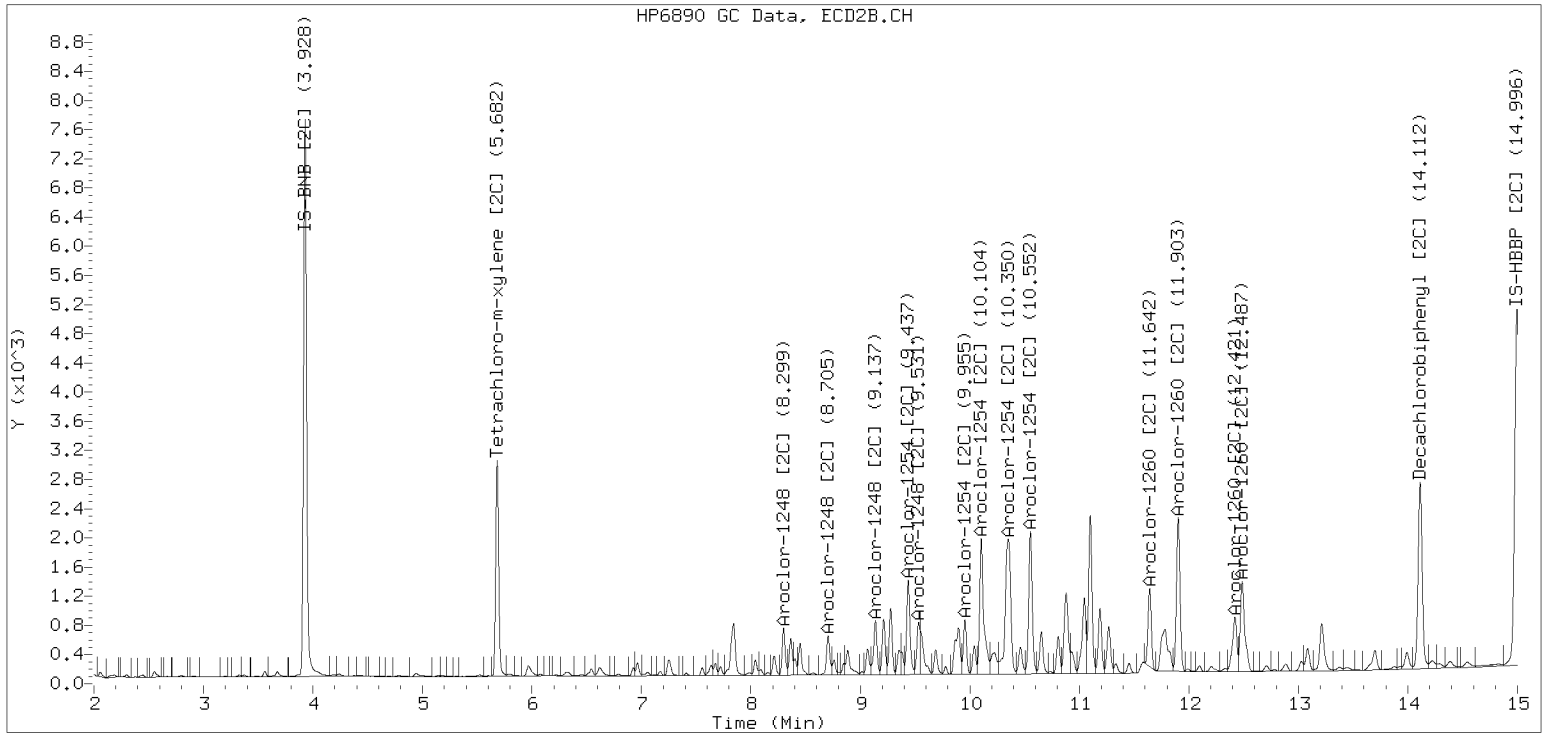
Manual Integration (After)



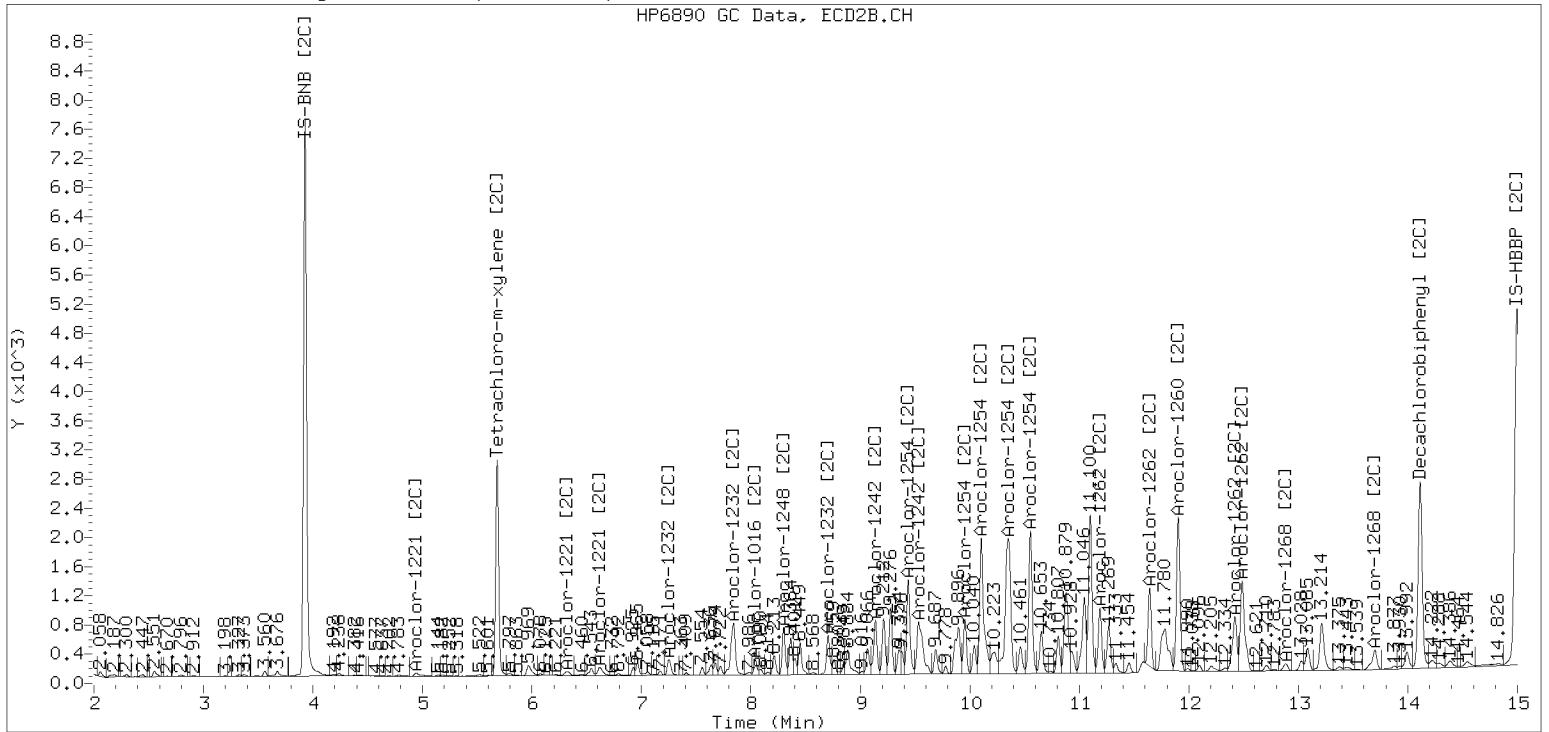
Processed Integration (Before)



Manual Integration (After)



Processed Integration (Before)





ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory: Analytical Resources, LLC SDG: 23A0180
 Client: Anchor QEA, LLC
 Project: AOC5 MR Phase 1
 Matrix: Solid Laboratory ID: 23A0180-13 A File ID: 02042353ECD7.D
 Sampled: 01/10/23 13:53 Prepared: 01/26/23 14:06 Analyzed: 02/05/23 10:11
 % Solids: 48.28 Preparation: EPA 3546 (Microwave) Initial/Final: 25.89 g Wet / 2.5 mL
 Batch: BLA0559 Sequence: SLB0084 Calibration: GA00061
 Instrument: ECD7 Column 1: ZB5 Column 2: ZB35

| CAS NO. | COMPOUND | Col # | DILUTION | CONC. (ug/kg dry) | MDL | MRL | Q |
|------------|--------------|-------|----------|-------------------|-----|-----|---|
| 12674-11-2 | Aroclor 1016 | 1 | 1 | 4.0 | 1.6 | 4.0 | U |
| 11104-28-2 | Aroclor 1221 | 1 | 1 | 4.0 | 1.6 | 4.0 | U |
| 11141-16-5 | Aroclor 1232 | 1 | 1 | 4.0 | 1.6 | 4.0 | U |
| 53469-21-9 | Aroclor 1242 | 1 | 1 | 4.0 | 1.6 | 4.0 | U |
| 12672-29-6 | Aroclor 1248 | 2 | 1 | 35.2 | 1.6 | 4.0 | |
| 11097-69-1 | Aroclor 1254 | 2 | 1 | 58.4 | 1.6 | 4.0 | |
| 11096-82-5 | Aroclor 1260 | 2 | 1 | 48.2 | 0.6 | 4.0 | |

| SURROGATES | Col # | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|------------------------------|-------|-------------------|------------------|-------|-----------|---|
| <i>Decachlorobiphenyl</i> | 1 | 8.0002 | 5.71 | 71.4 | 40 - 126 | |
| <i>Tetrachlorometaxylene</i> | 1 | 8.0002 | 5.04 | 63.0 | 44 - 120 | |
| <i>Decachlorobiphenyl</i> | 2 | 8.0002 | 5.67 | 70.9 | 40 - 126 | |
| <i>Tetrachlorometaxylene</i> | 2 | 8.0002 | 5.65 | 70.6 | 44 - 120 | |

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230204.b/02042353ECD7.D
Data file 2: /230204.b/230204.b/02042353ECD7.D
Method: \\target\share\chem4\ecd7.i\230204.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 23A0180-13
Client ID:
Injection Date: 05-FEB-2023 10:11
Report Date: 02/06/2023 16:58
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

| ZB5 Col | | ZB35 Col | | | ZB5 | ZB35 | RPD | Compound/Flag | |
|---------|--------|----------|--------|--------|----------|--------|------|---------------|----------------------|
| RT | Shift | Response | RT | Shift | Response | on col | | | on col |
| 5.804 | -0.003 | 152304 | 5.681 | -0.002 | 130520 | 25.2 | 28.3 | 11.4 | Tetrachloro-m-xylene |
| 13.883 | -0.006 | 110821 | 14.111 | -0.005 | 142973 | 28.6 | 28.3 | 0.7 | Decachlorobiphenyl |

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | %D |
|--------------------|----------------|-------------|-------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 503318 | 427629 | -15.0 |
| Hexabromobiphenyl | 647433 | 362913 | -43.9 |

| Standard Cpnd | Column 2 | | %D |
|--------------------|----------------|-------------|-------|
| | Standard Area* | Sample Area | |
| Bromo-Nitrobenzene | 336911 | 341717 | 1.4 |
| Hexabromobiphenyl | 382032 | 317819 | -16.8 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-JAN-2023
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | ZB35 Col | | | | | |
|--------------------------|-------|--------|--------|--------|--------------------------|-------|--------|--------|--------|----------|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount |
| Aroclor-1016 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 |
| Aroclor-1016 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 |
| Aroclor-1016 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 |
| Aroclor-1016 | 4 | --- | | | 0.0 | 4 | --- | | | 0.0 |
| CollAve: <3 Quant Peaks | | | | | Col2Ave: <3 Quant Peaks | | | | | |
| Aroclor-1221 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 |
| Aroclor-1221 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 |
| Aroclor-1221 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 |
| CollAve: <3 Quant Peaks | | | | | Col2Ave: <3 Quant Peaks | | | | | |
| Aroclor-1232 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 |
| Aroclor-1232 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 |
| Aroclor-1232 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 |
| Aroclor-1232 | 4 | --- | | | 0.0 | 4 | --- | | | 0.0 |
| CollAve: <3 Quant Peaks | | | | | Col2Ave: <3 Quant Peaks | | | | | |
| Aroclor-1242 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 |
| Aroclor-1242 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 |
| Aroclor-1242 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 |
| Aroclor-1242 | 4 | --- | | | 0.0 | 4 | --- | | | 0.0 |
| CollAve: <3 Quant Peaks | | | | | Col2Ave: <3 Quant Peaks | | | | | |
| Aroclor-1248 | 1 | 8.392 | -0.007 | 30973 | 144.8 | 1 | 8.297 | -0.005 | 27485 | 177.9 |
| Aroclor-1248 | 2 | 8.562 | -0.010 | 25577 | 93.7 | 2 | 8.701 | -0.007 | 34773 | 209.1 |
| Aroclor-1248 | 3 | 8.981 | -0.012 | 78670 | 150.7 | 3 | 9.135 | -0.014 | 36400 | 179.2 |
| Aroclor-1248 | 4 | 9.284 | -0.008 | 79958 | 309.5 | 4 | 9.530 | -0.043 | 34755 | 138.3 |
| Total CollAve (4 peaks): | | | | 174.7 | Total Col2Ave (4 peaks): | | | | 176.1 | RPD = 1 |
| Corrected Ave (3 peaks): | | | | 129.7 | Corrected Ave (3 peaks): | | | | 165.1 | RPD = 24 |
| Aroclor-1254 | 1 | 9.284 | -0.010 | 79958 | 183.5 | 1 | 9.435 | -0.007 | 64518 | 260.2 |
| Aroclor-1254 | 2 | 9.359 | -0.010 | 33868 | 182.0 | 2 | 9.953 | -0.008 | 37144 | 185.4 |
| Aroclor-1254 | 3 | 9.655 | -0.005 | 63545 | 227.6 | 3 | 10.102 | -0.011 | 114257 | 261.4 |
| Aroclor-1254 | 4 | 9.784 | -0.014 | 111899 | 204.5 | 4 | 10.350 | -0.012 | 147138 | 336.6 |
| Aroclor-1254 | 5 | 10.116 | -0.039 | 142642 | 400.9 | 5 | 10.551 | -0.010 | 101139 | 415.4 |
| Total CollAve (5 peaks): | | | | 239.7 | Total Col2Ave (5 peaks): | | | | 291.8 | RPD = 20 |
| Corrected Ave (4 peaks): | | | | 199.4 | Corrected Ave (4 peaks): | | | | 260.9 | RPD = 27 |
| Aroclor-1260 | 1 | 11.032 | -0.008 | 45215 | 222.0 | 1 | 11.641 | -0.007 | 53900 | 235.1 |
| Aroclor-1260 | 2 | 11.346 | -0.010 | 35989 | 171.9 | 2 | 11.902 | -0.008 | 106223 | 183.1 |
| Aroclor-1260 | 3 | 11.717 | -0.012 | 104041 | 188.8 | 3 | 12.421 | -0.009 | 47688 | 329.8 |
| Aroclor-1260 | 4 | 12.117 | -0.015 | 59539 | 209.1 | 4 | 12.486 | -0.009 | 81230 | 216.4 |
| Aroclor-1260 | 5 | 12.232 | -0.007 | 28306 | 228.1 | NS | --- | | | ---- |
| Total CollAve (5 peaks): | | | | 204.0 | Total Col2Ave (4 peaks): | | | | 241.1 | RPD = 17 |
| Corrected Ave (4 peaks): | | | | 198.0 | Corrected Ave (3 peaks): | | | | 211.5 | RPD = 7 |
| Aroclor-1262 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 |
| Aroclor-1262 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 |
| Aroclor-1262 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 |
| Aroclor-1262 | 4 | --- | | | 0.0 | 4 | --- | | | 0.0 |
| CollAve: <3 Quant Peaks | | | | | Col2Ave: <3 Quant Peaks | | | | | |
| Aroclor-1268 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 |
| Aroclor-1268 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 |
| Aroclor-1268 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 |
| Aroclor-1268 | 4 | --- | | | 0.0 | 4 | --- | | | 0.0 |
| CollAve: <3 Quant Peaks | | | | | Col2Ave: <3 Quant Peaks | | | | | |

Total PCB Area Col1 (5.907 - 13.789) = 3064092 Col1 Total PCB = 0.6 ppm*
Total PCB Area Col2 (5.783 - 14.016) = 2549346 Col2 Total PCB = 0.7 ppm*

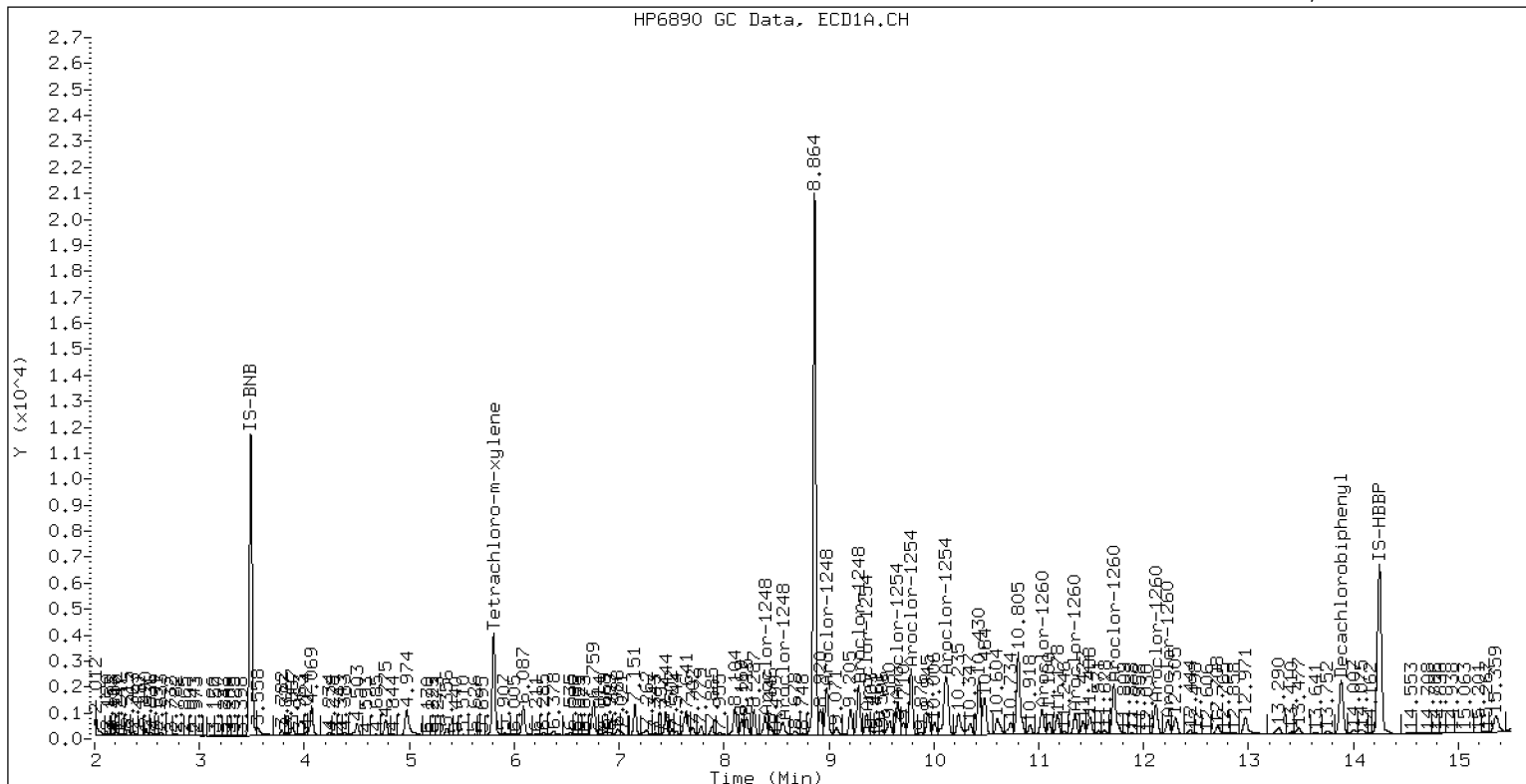
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 23A0180-13

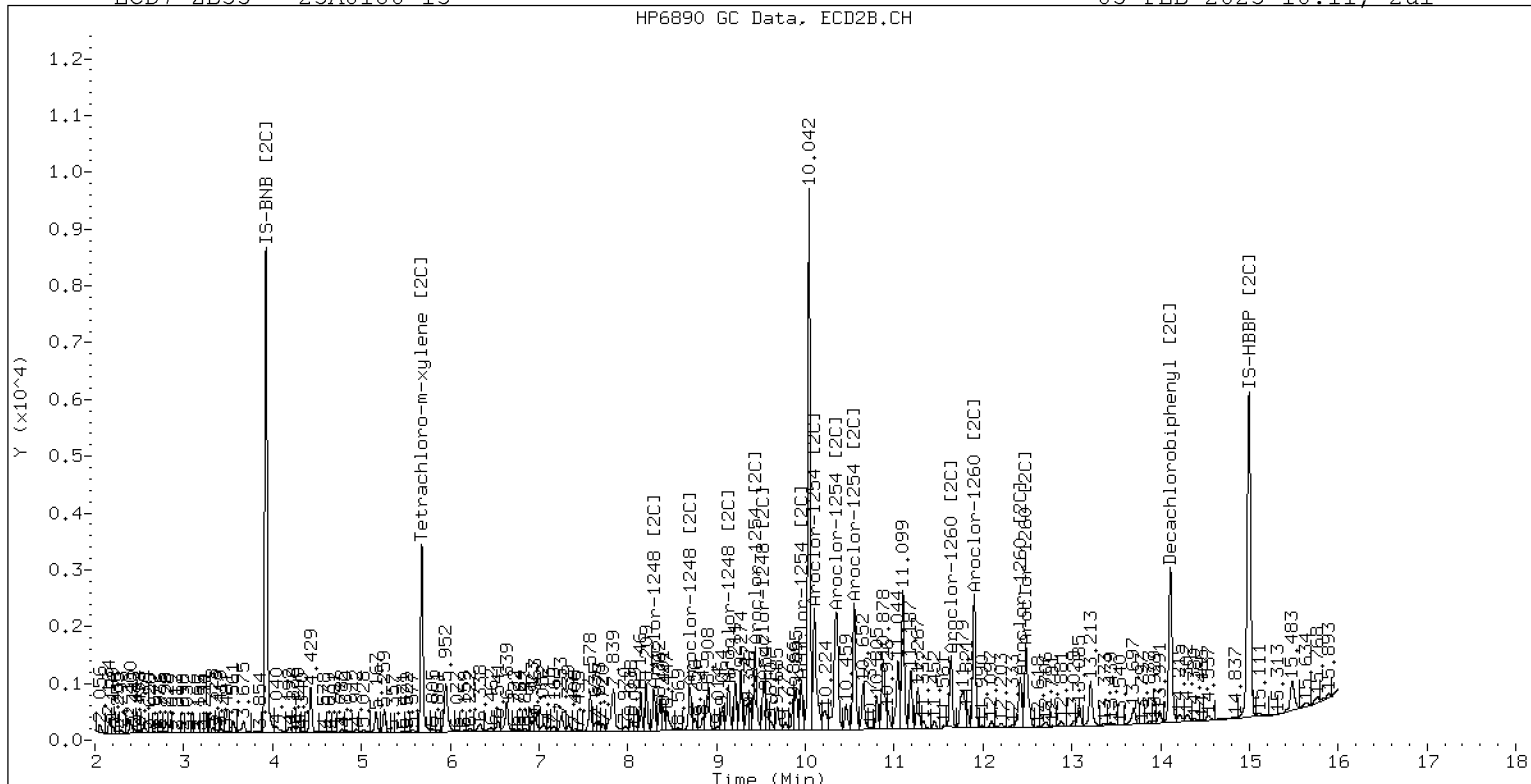
05-FEB-2023 10:11, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 23A0180-13

05-FEB-2023 10:11, 2ul



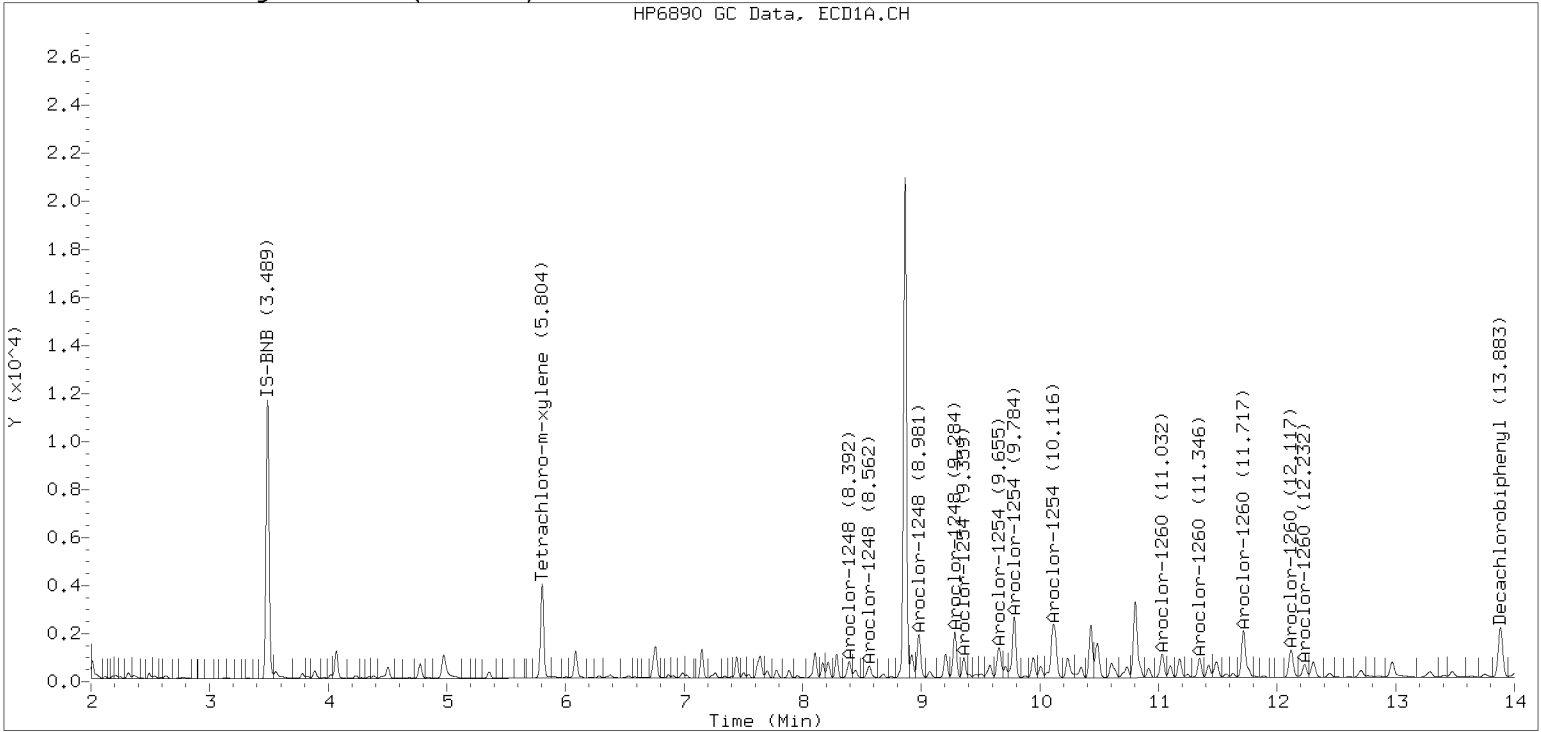
ZB-35 Manual Integration: YES

Manual Peak Adjustment, ZB-5

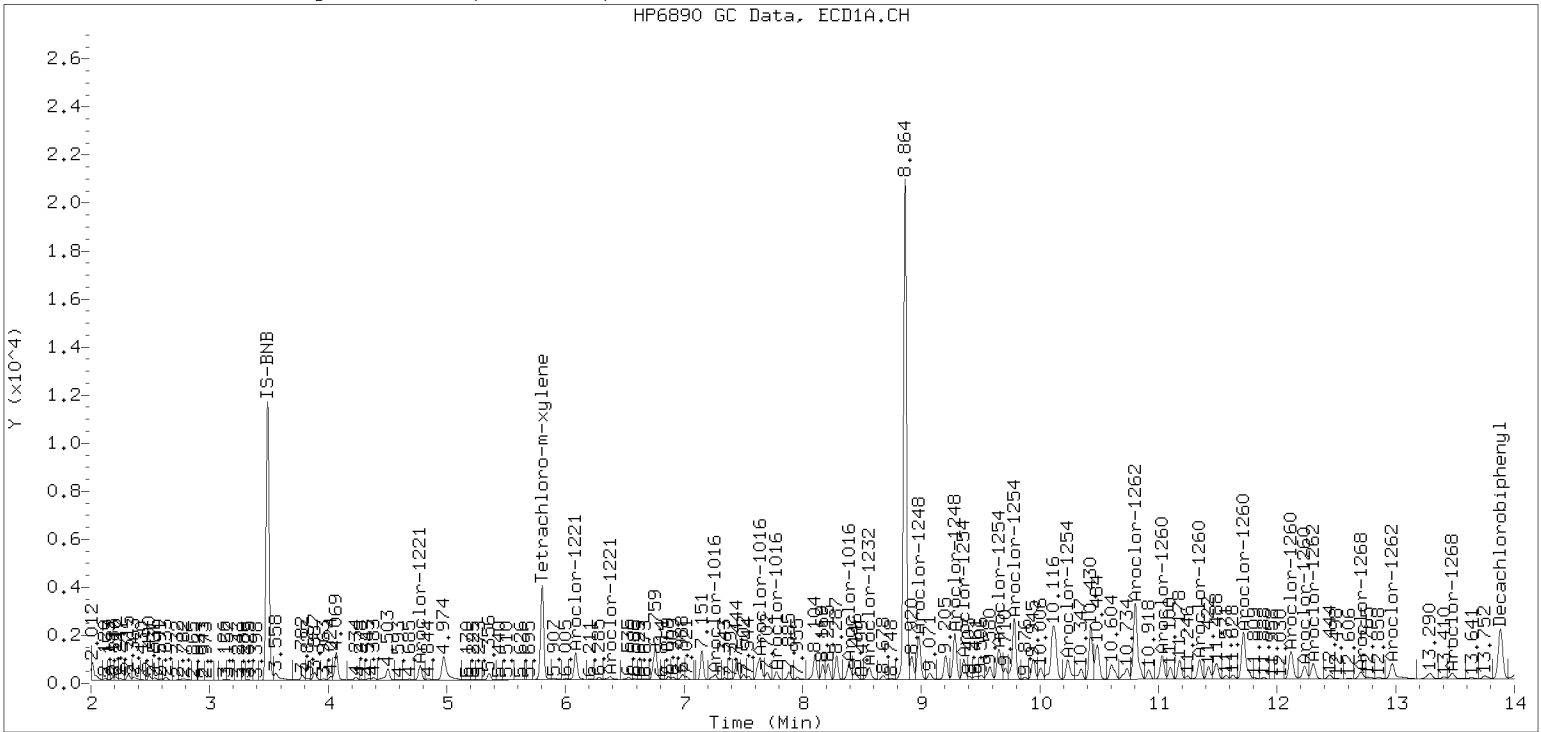
Datafile: ecd7.i/230204.b/02042353ECD7.D

Injection Date: 05-FEB-2023 10:11

Manual Integration (After)



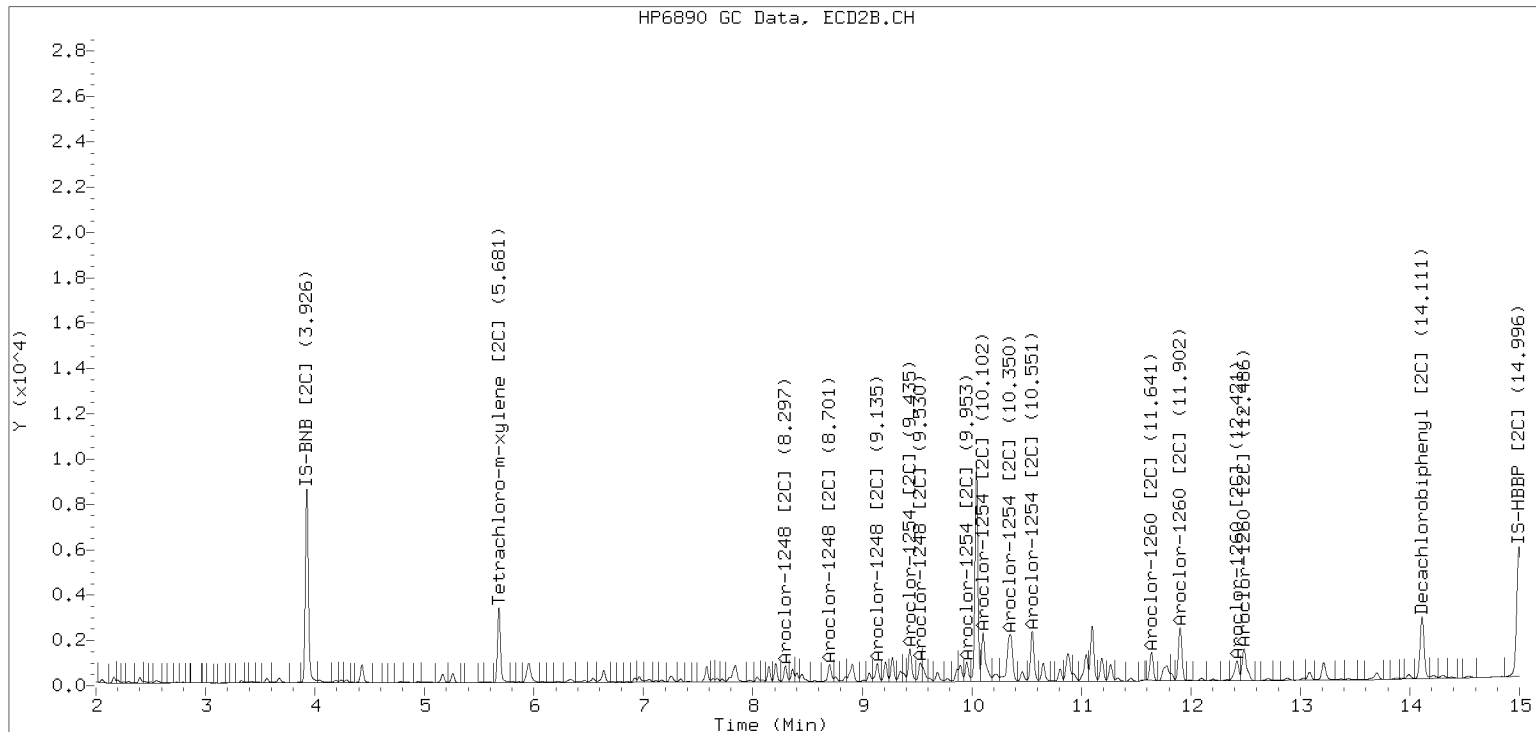
Processed Integration (Before)



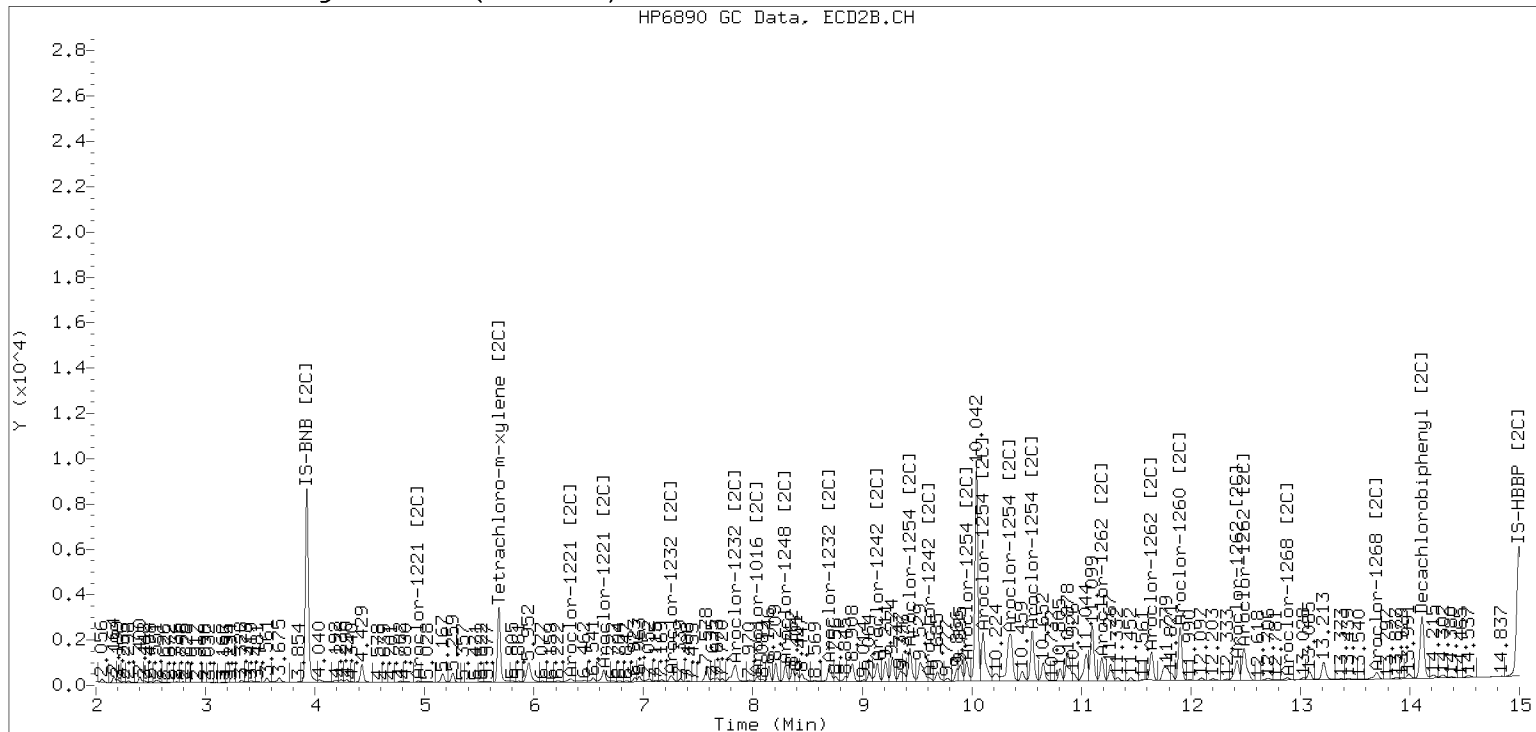
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230204.b/230204.b/02042353ECD7.D Injection Date: 05-FEB-2023

Manual Integration (After)



Processed Integration (Before)





ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory: Analytical Resources, LLC SDG: 23A0180
 Client: Anchor QEA, LLC
 Project: AOC5 MR Phase 1
 Matrix: Solid Laboratory ID: 23A0180-14 A File ID: 02062341ECD7.D
 Sampled: 01/10/23 14:13 Prepared: 01/26/23 14:06 Analyzed: 02/06/23 23:34
 % Solids: 63.64 Preparation: EPA 3546 (Microwave) Initial/Final: 19.65 g Wet / 2.5 mL
 Batch: BLA0559 Sequence: SLB0086 Calibration: GA00061
 Instrument: ECD7 Column 1: ZB5 Column 2: ZB35

| CAS NO. | COMPOUND | Col # | DILUTION | CONC. (ug/kg dry) | MDL | MRL | Q |
|------------|--------------|-------|----------|-------------------|-----|-----|---|
| 12674-11-2 | Aroclor 1016 | 1 | 1 | 4.0 | 1.6 | 4.0 | U |
| 11104-28-2 | Aroclor 1221 | 1 | 1 | 4.0 | 1.6 | 4.0 | U |
| 11141-16-5 | Aroclor 1232 | 1 | 1 | 4.0 | 1.6 | 4.0 | U |
| 53469-21-9 | Aroclor 1242 | 1 | 1 | 4.0 | 1.6 | 4.0 | U |
| 12672-29-6 | Aroclor 1248 | 1 | 1 | 16.3 | 1.6 | 4.0 | |
| 11097-69-1 | Aroclor 1254 | 1 | 1 | 17.9 | 1.6 | 4.0 | |
| 11096-82-5 | Aroclor 1260 | 1 | 1 | 22.8 | 0.6 | 4.0 | |

| SURROGATES | Col # | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|------------------------------|-------|-------------------|------------------|-------|-----------|---|
| <i>Decachlorobiphenyl</i> | 1 | 7.9966 | 6.63 | 82.9 | 40 - 126 | |
| <i>Tetrachlorometaxylene</i> | 1 | 7.9966 | 4.81 | 60.2 | 44 - 120 | |

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230206.b/02062341ECD7.D
Data file 2: /230206.b/230206.b/02062341ECD7.D
Method: \\target\share\chem4\ecd7.i\230206.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 23A0180-14
Client ID:
Injection Date: 06-FEB-2023 23:34
Report Date: 02/07/2023 10:36
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

| ZB5 Col | | ZB35 Col | | | ZB5 | ZB35 | RPD | Compound/Flag | |
|---------|--------|----------|--------|--------|----------|--------|------|---------------|----------------------|
| RT | Shift | Response | RT | Shift | Response | on col | | | on col |
| 5.806 | -0.003 | 130935 | 5.682 | -0.003 | 113788 | 24.1 | 26.4 | 9.4 | Tetrachloro-m-xylene |
| 13.884 | -0.008 | 107110 | 14.113 | -0.003 | 144563 | 33.1 | 33.2 | 0.2 | Decachlorobiphenyl |

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | |
|--------------------|----------------|-------------|----------|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 503318 | 384821 | -23.5 |
| Hexabromobiphenyl | 647433 | 302136 | -53.3 <- |

| Standard Cpnd | Column 2 | | |
|--------------------|----------------|-------------|-------|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 336911 | 318276 | -5.5 |
| Hexabromobiphenyl | 382032 | 274182 | -28.2 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-JAN-2023
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | ZB35 Col | | | | | | |
|--------------------------|-------|--------|--------|-----------------|--------------------------|-------|--------|--------|-------|----------|--|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount | |
| Aroclor-1016 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 | |
| Aroclor-1016 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 | |
| Aroclor-1016 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 | |
| Aroclor-1016 | 4 | --- | | | 0.0 | 4 | --- | | | 0.0 | |
| CollAve: <3 Quant Peaks | | | | | Col2Ave: <3 Quant Peaks | | | | | | |
| Aroclor-1221 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 | |
| Aroclor-1221 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 | |
| Aroclor-1221 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 | |
| CollAve: <3 Quant Peaks | | | | | Col2Ave: <3 Quant Peaks | | | | | | |
| Aroclor-1232 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 | |
| Aroclor-1232 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 | |
| Aroclor-1232 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 | |
| Aroclor-1232 | 4 | --- | | | 0.0 | 4 | --- | | | 0.0 | |
| CollAve: <3 Quant Peaks | | | | | Col2Ave: <3 Quant Peaks | | | | | | |
| Aroclor-1242 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 | |
| Aroclor-1242 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 | |
| Aroclor-1242 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 | |
| Aroclor-1242 | 4 | --- | | | 0.0 | 4 | --- | | | 0.0 | |
| CollAve: <3 Quant Peaks | | | | | Col2Ave: <3 Quant Peaks | | | | | | |
| Aroclor-1248 | 1 | 8.393 | -0.013 | 14064 | 73.1 | 1 | 8.298 | -0.005 | 10108 | 70.3 | |
| Aroclor-1248 | 2 | 8.563 | -0.017 | 9559 | 38.9 | 2 | 8.705 | -0.005 | 9896 | 63.9 | |
| Aroclor-1248 | 3 | 8.982 | -0.017 | 32569 | 69.3 | 3 | 9.137 | -0.015 | 14023 | 74.1 | |
| Aroclor-1248 | 4 | 9.285 | -0.008 | 33553 | 144.3 | 4 | 9.529 | -0.046 | 14909 | 63.7 | |
| Total CollAve (4 peaks): | | | | 81.4 | Total Col2Ave (4 peaks): | | | | 68.0 | RPD = 18 | |
| Corrected Ave (3 peaks): | | | | 60.4 | Corrected Ave (3 peaks): | | | | 66.0 | RPD = 9 | |
| Aroclor-1254 | 1 | 9.285 | -0.013 | 33553 | 85.6 | 1 | 9.436 | -0.008 | 26720 | 115.7 | |
| Aroclor-1254 | 2 | 9.360 | -0.018 | 13495 | 80.6 | 2 | 9.955 | -0.008 | 14591 | 78.2 | |
| Aroclor-1254 | 3 | 9.655 | -0.015 | 24154 | 96.1 | 3 | 10.103 | -0.012 | 51072 | 125.4 | |
| Aroclor-1254 | 4 | 9.785 | -0.024 | 47390 | 96.2 | 4 | 10.353 | -0.011 | 60004 | 147.4 | |
| Aroclor-1254 | 5 | 10.115 | -0.062 | 34537 | 107.9 | 5 | 10.552 | -0.010 | 43999 | 194.0 | |
| Total CollAve (5 peaks): | | | | 95.3 | Total Col2Ave (5 peaks): | | | | 132.2 | RPD = 34 | |
| Corrected Ave (4 peaks): | | | | 89.6 | Corrected Ave (4 peaks): | | | | 116.7 | RPD = 26 | |
| Aroclor-1260 | 1 | 11.032 | -0.012 | 22082 | 130.3 | 1 | 11.641 | -0.008 | 34312 | 173.5 | |
| Aroclor-1260 | 2 | 11.347 | -0.013 | 16913 | 97.1 | 2 | 11.902 | -0.010 | 53919 | 107.7 | |
| Aroclor-1260 | 3 | 11.717 | -0.017 | 49793 | 108.5 | 3 | 12.422 | -0.009 | 21601 | 173.2 | |
| Aroclor-1260 | 4 | 12.117 | -0.022 | 25234 | 106.5 | 4 | 12.486 | -0.010 | 37744 | 116.5 | |
| Aroclor-1260 | 5 | 12.233 | -0.011 | 13277 | 128.5 | NS | --- | | | ---- | |
| Total CollAve (5 peaks): | | | | 114.2 | Total Col2Ave (4 peaks): | | | | 142.7 | RPD = 22 | |
| Corrected Ave (4 peaks): | | | | 110.1 | Corrected Ave (3 peaks): | | | | 132.5 | RPD = 18 | |
| Aroclor-1262 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 | |
| Aroclor-1262 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 | |
| Aroclor-1262 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 | |
| Aroclor-1262 | 4 | --- | | | 0.0 | 4 | --- | | | 0.0 | |
| CollAve: <3 Quant Peaks | | | | | Col2Ave: <3 Quant Peaks | | | | | | |
| Aroclor-1268 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 | |
| Aroclor-1268 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 | |
| Aroclor-1268 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 | |
| Aroclor-1268 | 4 | --- | | | 0.0 | 4 | --- | | | 0.0 | |
| CollAve: <3 Quant Peaks | | | | | Col2Ave: <3 Quant Peaks | | | | | | |

Total PCB Area Col1 (5.909 - 13.792) = 928666 Col1 Total PCB = 0.2 ppm*
Total PCB Area Col2 (5.784 - 14.017) = 911444 Col2 Total PCB = 0.3 ppm*

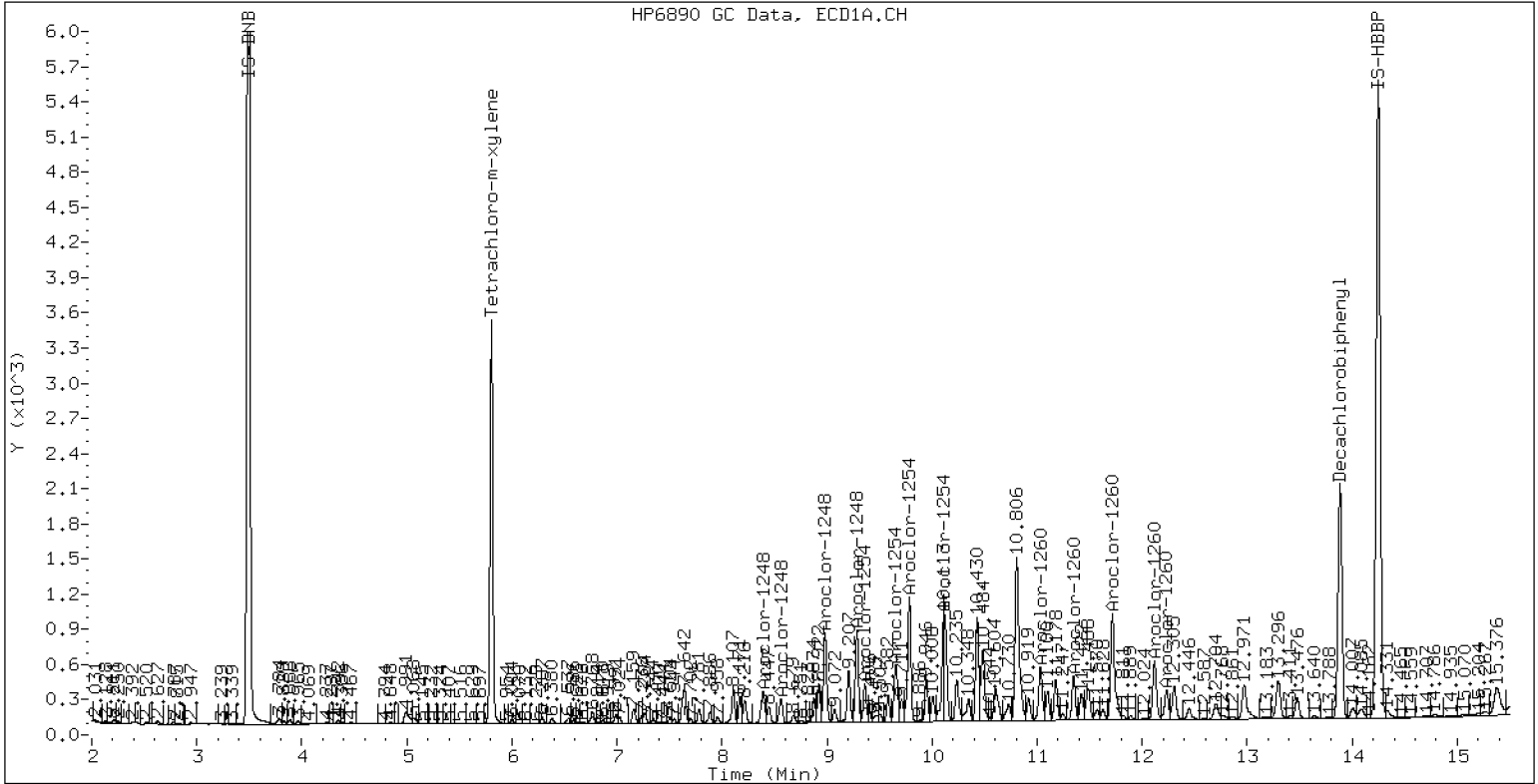
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 23A0180-14

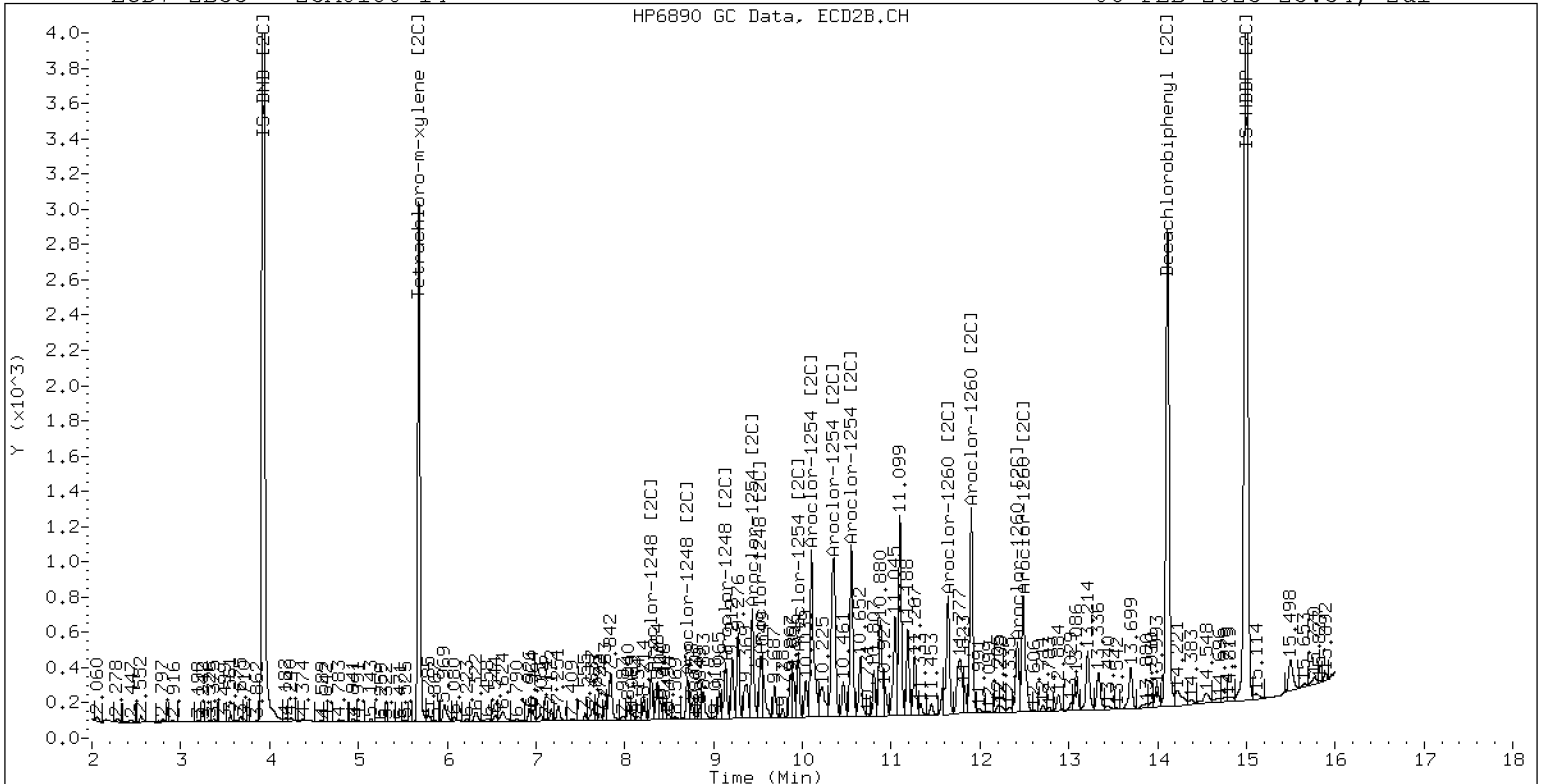
06-FEB-2023 23:34, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 23A0180-14

06-FEB-2023 23:34, 2ul



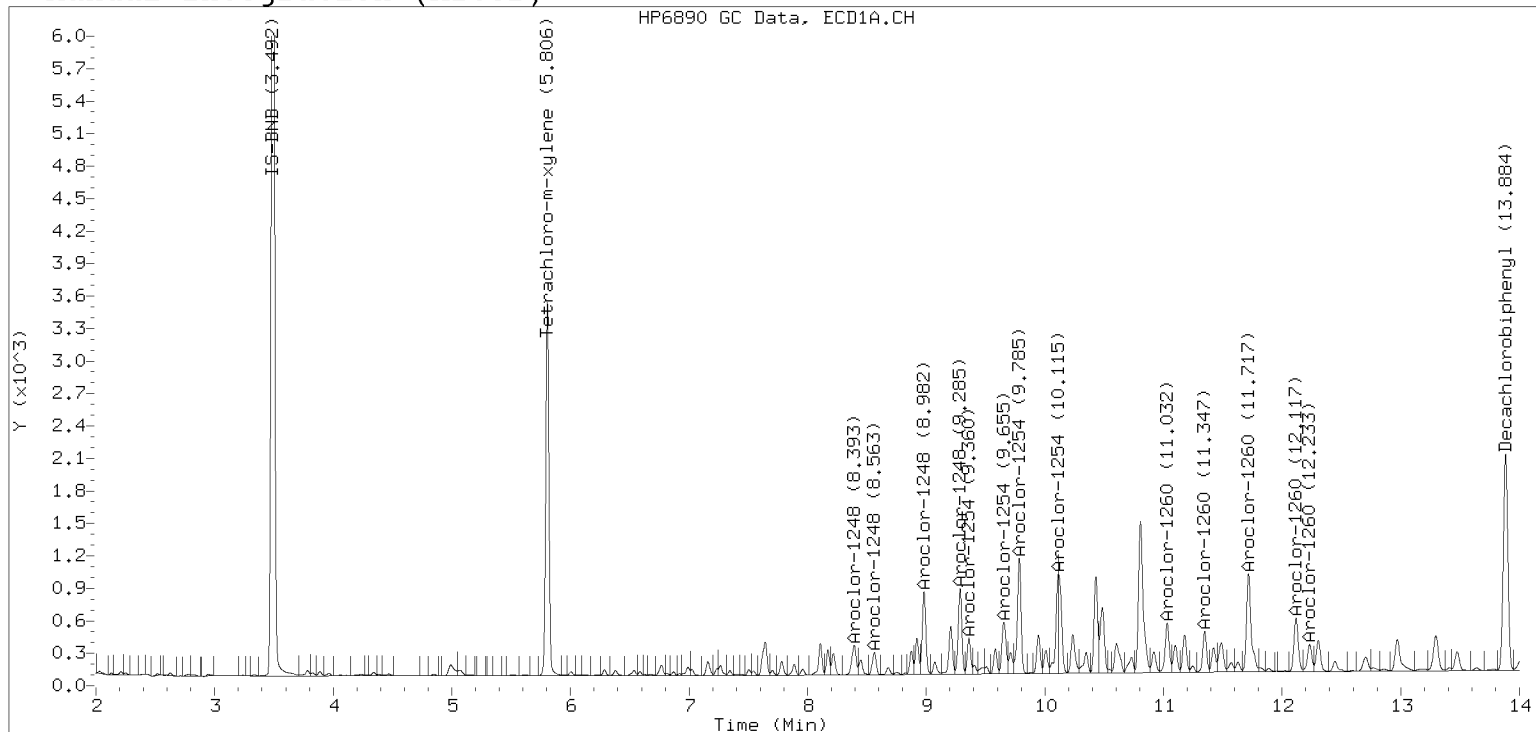
ZB-35 Manual Integration: YES

Manual Peak Adjustment, ZB-5

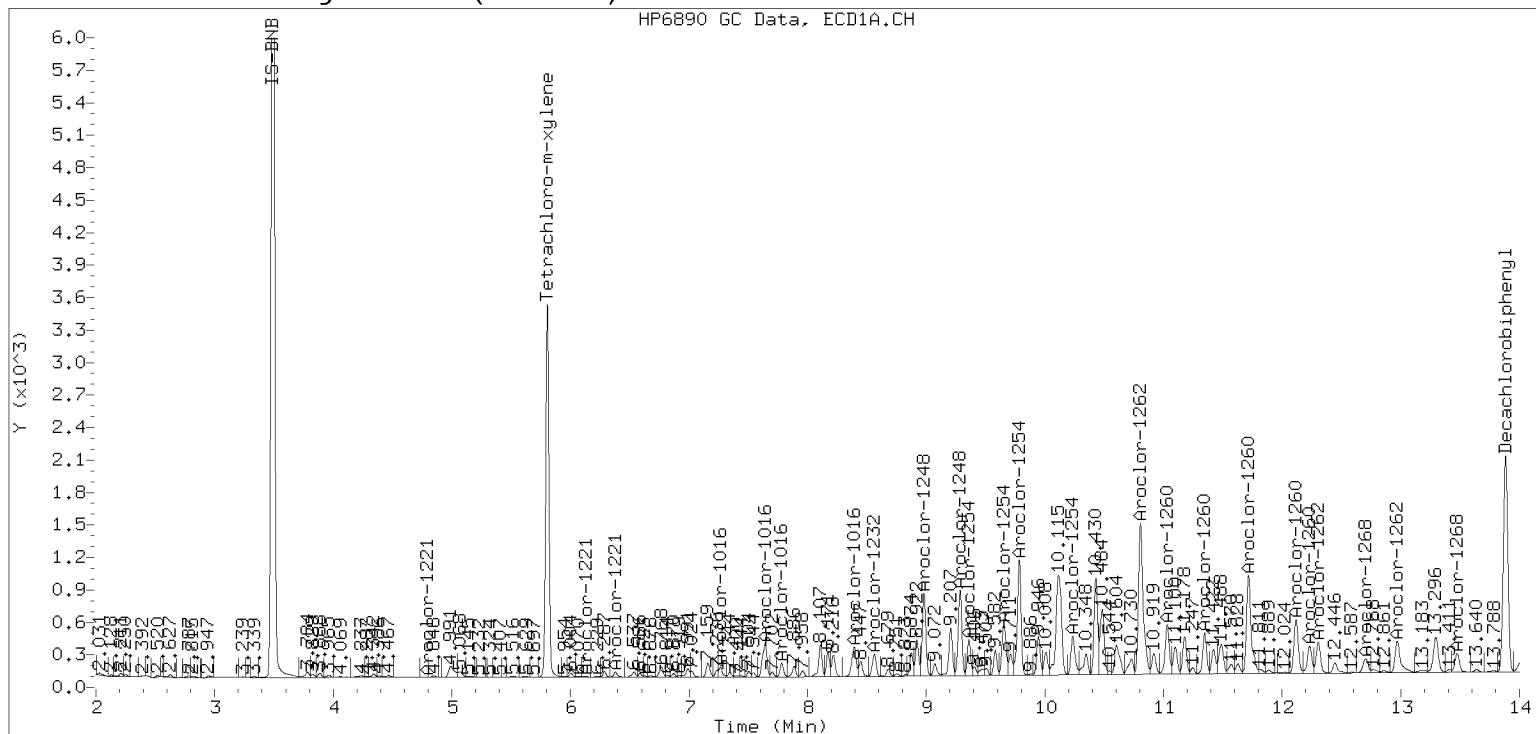
Datafile: ecd7.i/230206.b/02062341ECD7.D

Injection Date: 06-FEB-2023 23:34

Manual Integration (After)



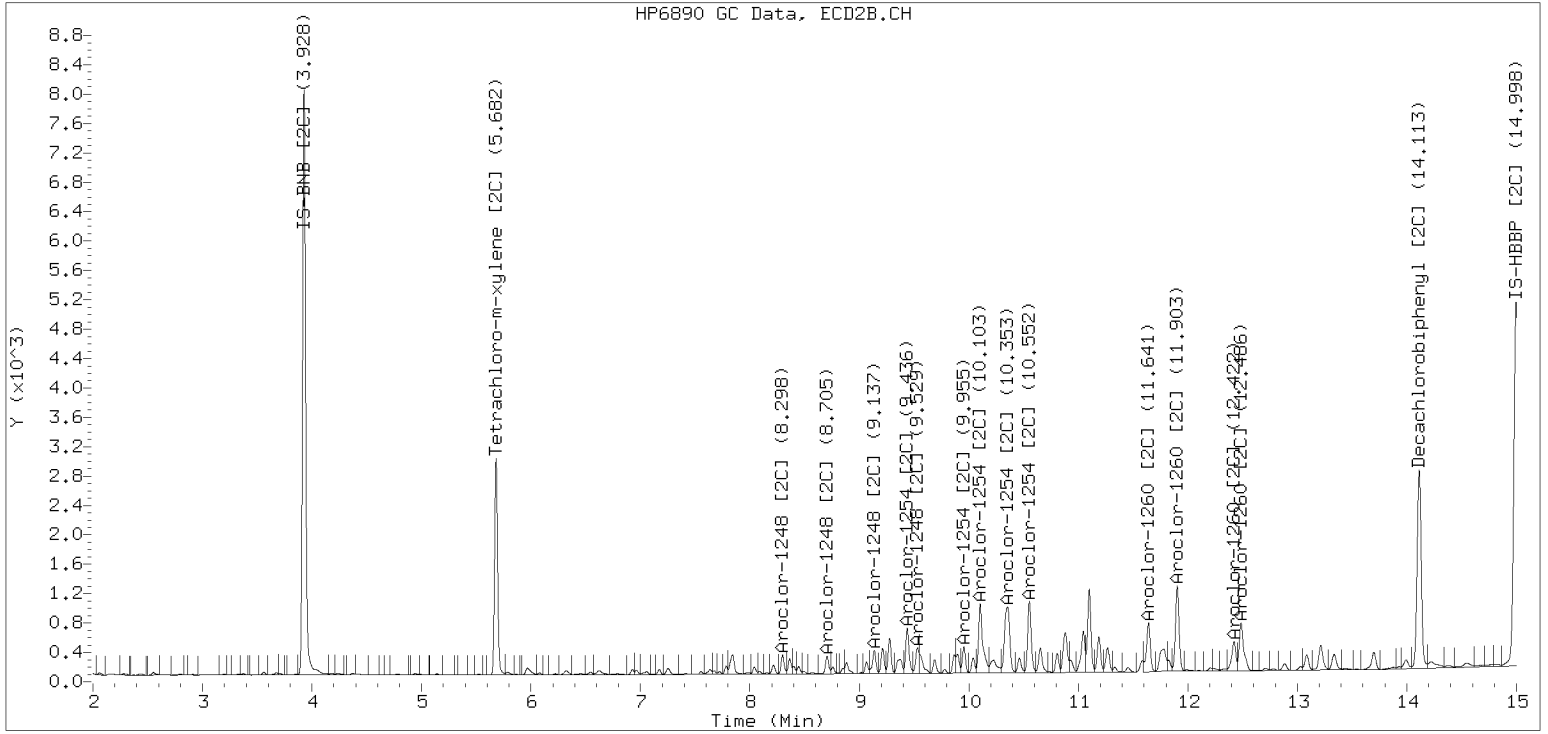
Processed Integration (Before)



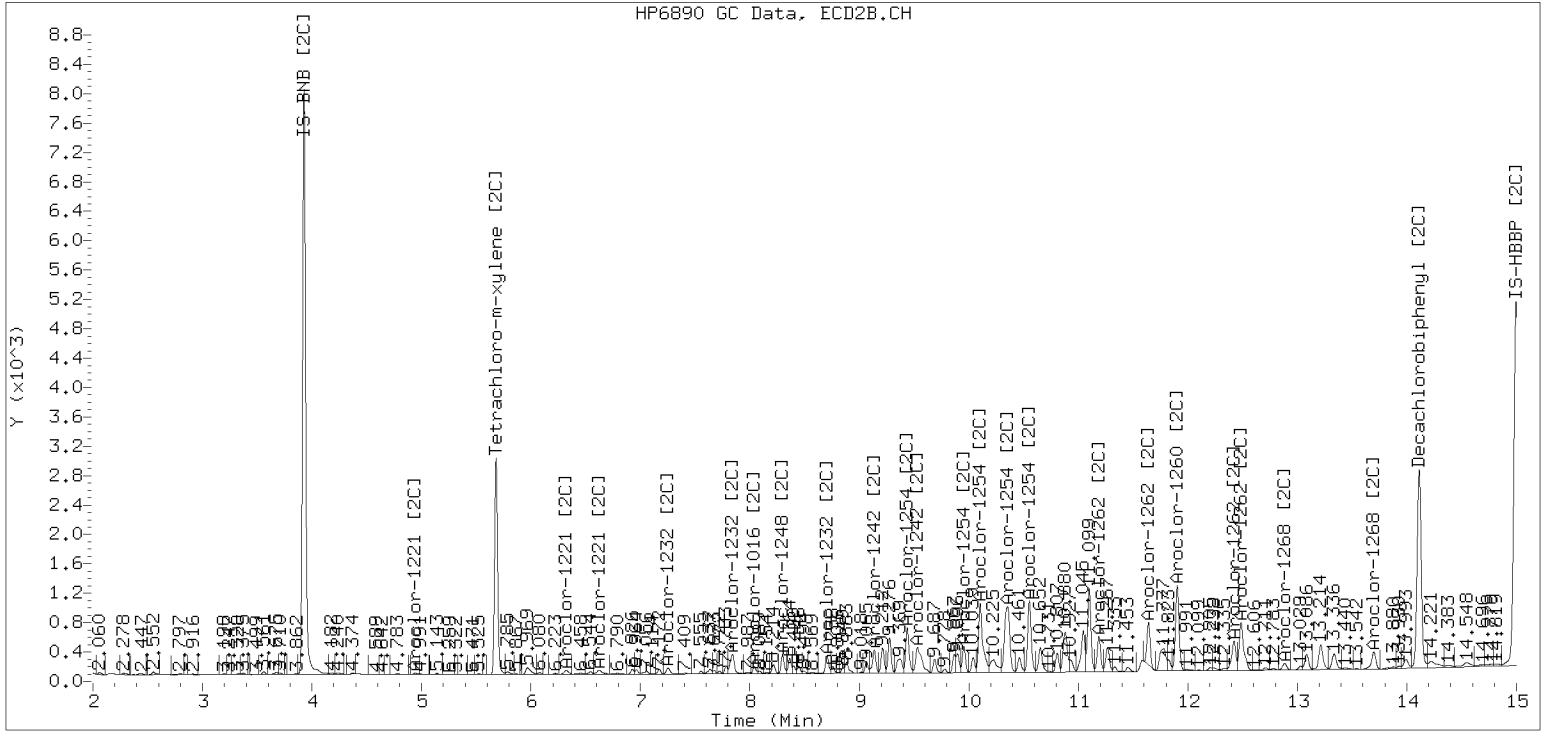
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230206.b/230206.b/02062341ECD7.D Injection Date: 06-FEB-2023

Manual Integration (After)



Processed Integration (Before)





ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory: Analytical Resources, LLC SDG: 23A0180
 Client: Anchor QEA, LLC
 Project: AOC5 MR Phase 1
 Matrix: Solid Laboratory ID: 23A0180-15 A File ID: 02062344ECD7.D
 Sampled: 01/10/23 15:24 Prepared: 01/26/23 14:06 Analyzed: 02/07/23 00:37
 % Solids: 45.97 Preparation: EPA 3546 (Microwave) Initial/Final: 27.19 g Wet / 2.5 mL
 Batch: BLA0559 Sequence: SLB0086 Calibration: GA00061
 Instrument: ECD7 Column 1: ZB5 Column 2: ZB35

| CAS NO. | COMPOUND | Col # | DILUTION | CONC. (ug/kg dry) | MDL | MRL | Q |
|------------|--------------|-------|----------|-------------------|-----|-----|---|
| 12674-11-2 | Aroclor 1016 | 1 | 1 | 4.0 | 1.6 | 4.0 | U |
| 11104-28-2 | Aroclor 1221 | 1 | 1 | 4.0 | 1.6 | 4.0 | U |
| 11141-16-5 | Aroclor 1232 | 1 | 1 | 4.0 | 1.6 | 4.0 | U |
| 53469-21-9 | Aroclor 1242 | 1 | 1 | 4.0 | 1.6 | 4.0 | U |
| 12672-29-6 | Aroclor 1248 | 1 | 1 | 37.7 | 1.6 | 4.0 | |
| 11097-69-1 | Aroclor 1254 | 1 | 1 | 44.5 | 1.6 | 4.0 | |
| 11096-82-5 | Aroclor 1260 | 1 | 1 | 50.3 | 0.6 | 4.0 | |

| SURROGATES | Col # | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|------------------------------|-------|-------------------|------------------|-------|-----------|---|
| <i>Decachlorobiphenyl</i> | 1 | 8.0005 | 6.50 | 81.3 | 40 - 126 | |
| <i>Tetrachlorometaxylene</i> | 1 | 8.0005 | 5.19 | 64.9 | 44 - 120 | |

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230206.b/02062344ECD7.D
Data file 2: /230206.b/230206.b/02062344ECD7.D
Method: \\target\share\chem4\ecd7.i\230206.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 23A0180-15
Client ID:
Injection Date: 07-FEB-2023 00:37
Report Date: 02/07/2023 10:36
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

| RT | ZB5 Col Shift | Response | RT | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag |
|--------|---------------|----------|--------|----------------|----------|------------|-------------|-----|----------------------|
| 5.806 | -0.003 | 136302 | 5.682 | -0.002 | 119261 | 26.0 | 28.2 | 8.1 | Tetrachloro-m-xylene |
| 13.884 | -0.008 | 105856 | 14.112 | -0.005 | 142520 | 32.5 | 32.2 | 0.9 | Decachlorobiphenyl |

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | |
|--------------------|----------------|-------------|----------|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 503318 | 371481 | -26.2 |
| Hexabromobiphenyl | 647433 | 304486 | -53.0 <- |

| Standard Cpnd | Column 2 | | |
|--------------------|----------------|-------------|-------|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 336911 | 313334 | -7.0 |
| Hexabromobiphenyl | 382032 | 278658 | -27.1 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-JAN-2023
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | ZB35 Col | | | | | |
|--------------------------|-------|--------|--------|--------|--------------------------|-------|--------|--------|--------|----------|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount |
| Aroclor-1016 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 |
| Aroclor-1016 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 |
| Aroclor-1016 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 |
| Aroclor-1016 | 4 | --- | | | 0.0 | 4 | --- | | | 0.0 |
| CollAve: <3 Quant Peaks | | | | | Col2Ave: <3 Quant Peaks | | | | | |
| Aroclor-1221 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 |
| Aroclor-1221 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 |
| Aroclor-1221 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 |
| CollAve: <3 Quant Peaks | | | | | Col2Ave: <3 Quant Peaks | | | | | |
| Aroclor-1232 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 |
| Aroclor-1232 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 |
| Aroclor-1232 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 |
| Aroclor-1232 | 4 | --- | | | 0.0 | 4 | --- | | | 0.0 |
| CollAve: <3 Quant Peaks | | | | | Col2Ave: <3 Quant Peaks | | | | | |
| Aroclor-1242 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 |
| Aroclor-1242 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 |
| Aroclor-1242 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 |
| Aroclor-1242 | 4 | --- | | | 0.0 | 4 | --- | | | 0.0 |
| CollAve: <3 Quant Peaks | | | | | Col2Ave: <3 Quant Peaks | | | | | |
| Aroclor-1248 | 1 | 8.396 | -0.010 | 27527 | 148.1 | 1 | 8.298 | -0.004 | 26664 | 188.3 |
| Aroclor-1248 | 2 | 8.563 | -0.017 | 23969 | 101.1 | 2 | 8.704 | -0.005 | 25370 | 166.4 |
| Aroclor-1248 | 3 | 8.982 | -0.017 | 74205 | 163.6 | 3 | 9.136 | -0.015 | 35395 | 190.0 |
| Aroclor-1248 | 4 | 9.285 | -0.009 | 76326 | 340.1 | 4 | 9.530 | -0.046 | 32937 | 143.0 |
| Total CollAve (4 peaks): | | | | 188.2 | Total Col2Ave (4 peaks): | | | | 171.9 | RPD = 9 |
| Corrected Ave (3 peaks): | | | | 137.6 | Corrected Ave (3 peaks): | | | | 165.9 | RPD = 19 |
| Aroclor-1254 | 1 | 9.285 | -0.014 | 76326 | 201.6 | 1 | 9.437 | -0.008 | 60067 | 264.2 |
| Aroclor-1254 | 2 | 9.360 | -0.018 | 32308 | 199.9 | 2 | 9.955 | -0.009 | 32919 | 179.2 |
| Aroclor-1254 | 3 | 9.657 | -0.013 | 62394 | 257.2 | 3 | 10.103 | -0.012 | 110610 | 276.0 |
| Aroclor-1254 | 4 | 9.785 | -0.024 | 109765 | 230.9 | 4 | 10.351 | -0.013 | 147930 | 369.1 |
| Aroclor-1254 | 5 | 10.117 | -0.060 | 81575 | 269.9 | 5 | 10.552 | -0.010 | 100351 | 449.5 |
| Total CollAve (5 peaks): | | | | 230.7 | Total Col2Ave (5 peaks): | | | | 307.6 | RPD = 29 |
| Corrected Ave (4 peaks): | | | | 222.4 | Corrected Ave (4 peaks): | | | | 272.1 | RPD = 20 |
| Aroclor-1260 | 1 | 11.031 | -0.012 | 48542 | 284.1 | 1 | 11.641 | -0.007 | 44755 | 222.6 |
| Aroclor-1260 | 2 | 11.346 | -0.014 | 37666 | 214.5 | 2 | 11.903 | -0.009 | 109852 | 216.0 |
| Aroclor-1260 | 3 | 11.717 | -0.017 | 112263 | 242.8 | 3 | 12.422 | -0.010 | 46600 | 367.6 |
| Aroclor-1260 | 4 | 12.118 | -0.022 | 58142 | 243.4 | 4 | 12.486 | -0.011 | 82070 | 249.3 |
| Aroclor-1260 | 5 | 12.232 | -0.011 | 28303 | 271.8 | NS | --- | | | ---- |
| Total CollAve (5 peaks): | | | | 251.3 | Total Col2Ave (4 peaks): | | | | 263.9 | RPD = 5 |
| Corrected Ave (4 peaks): | | | | 243.1 | Corrected Ave (3 peaks): | | | | 229.3 | RPD = 6 |
| Aroclor-1262 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 |
| Aroclor-1262 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 |
| Aroclor-1262 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 |
| Aroclor-1262 | 4 | --- | | | 0.0 | 4 | --- | | | 0.0 |
| CollAve: <3 Quant Peaks | | | | | Col2Ave: <3 Quant Peaks | | | | | |
| Aroclor-1268 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 |
| Aroclor-1268 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 |
| Aroclor-1268 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 |
| Aroclor-1268 | 4 | --- | | | 0.0 | 4 | --- | | | 0.0 |
| CollAve: <3 Quant Peaks | | | | | Col2Ave: <3 Quant Peaks | | | | | |

Total PCB Area Col1 (5.909 - 13.792) = 2145928 Col1 Total PCB = 0.5 ppm*
Total PCB Area Col2 (5.784 - 14.017) = 1968268 Col2 Total PCB = 0.6 ppm*

* Quantitated against AR1660 0.25ppm in Ical

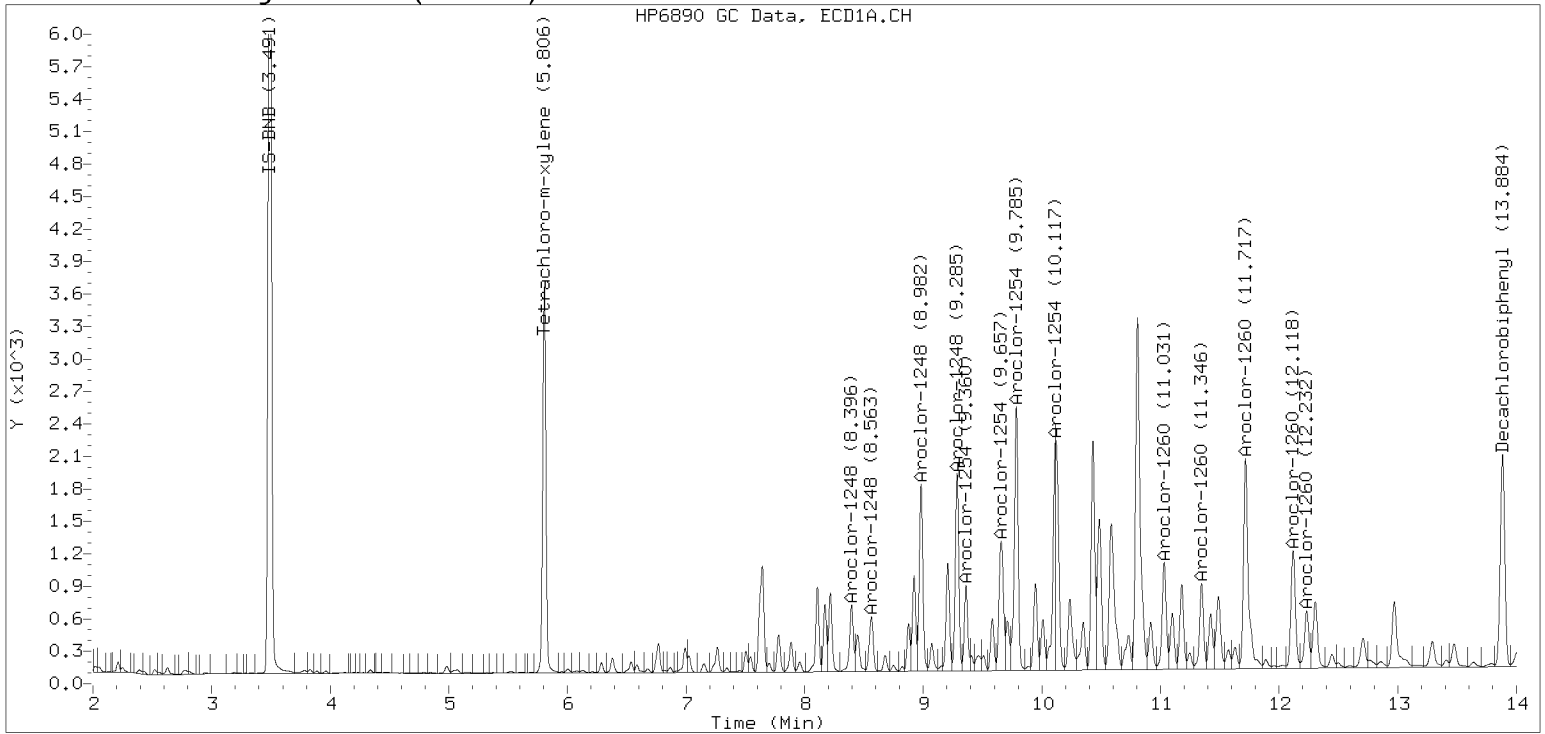
PCB-Form 10 Mod.

Manual Peak Adjustment, ZB-5

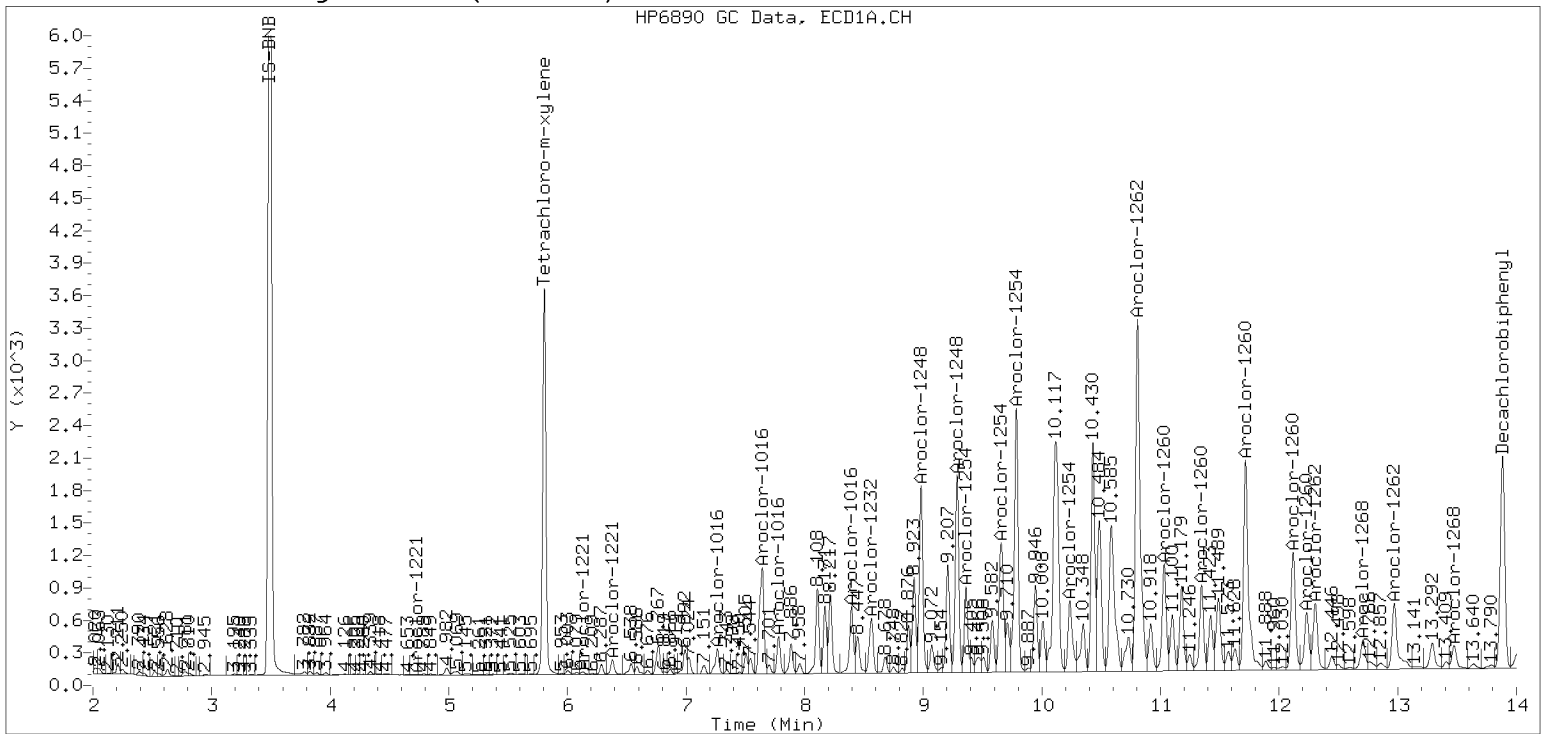
Datafile: ecd7.i/230206.b/02062344ECD7.D

Injection Date: 07-FEB-2023 00:37

Manual Integration (After)



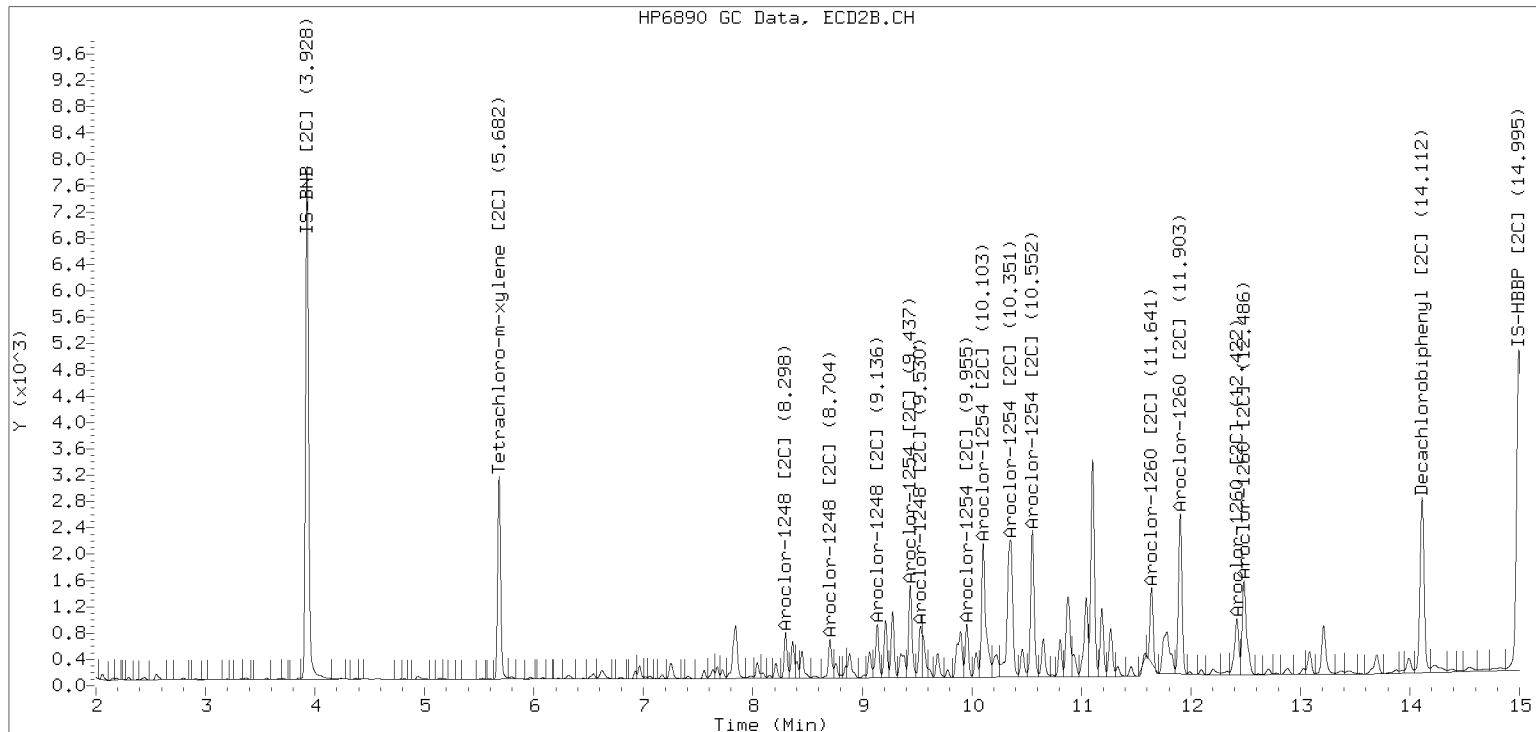
Processed Integration (Before)



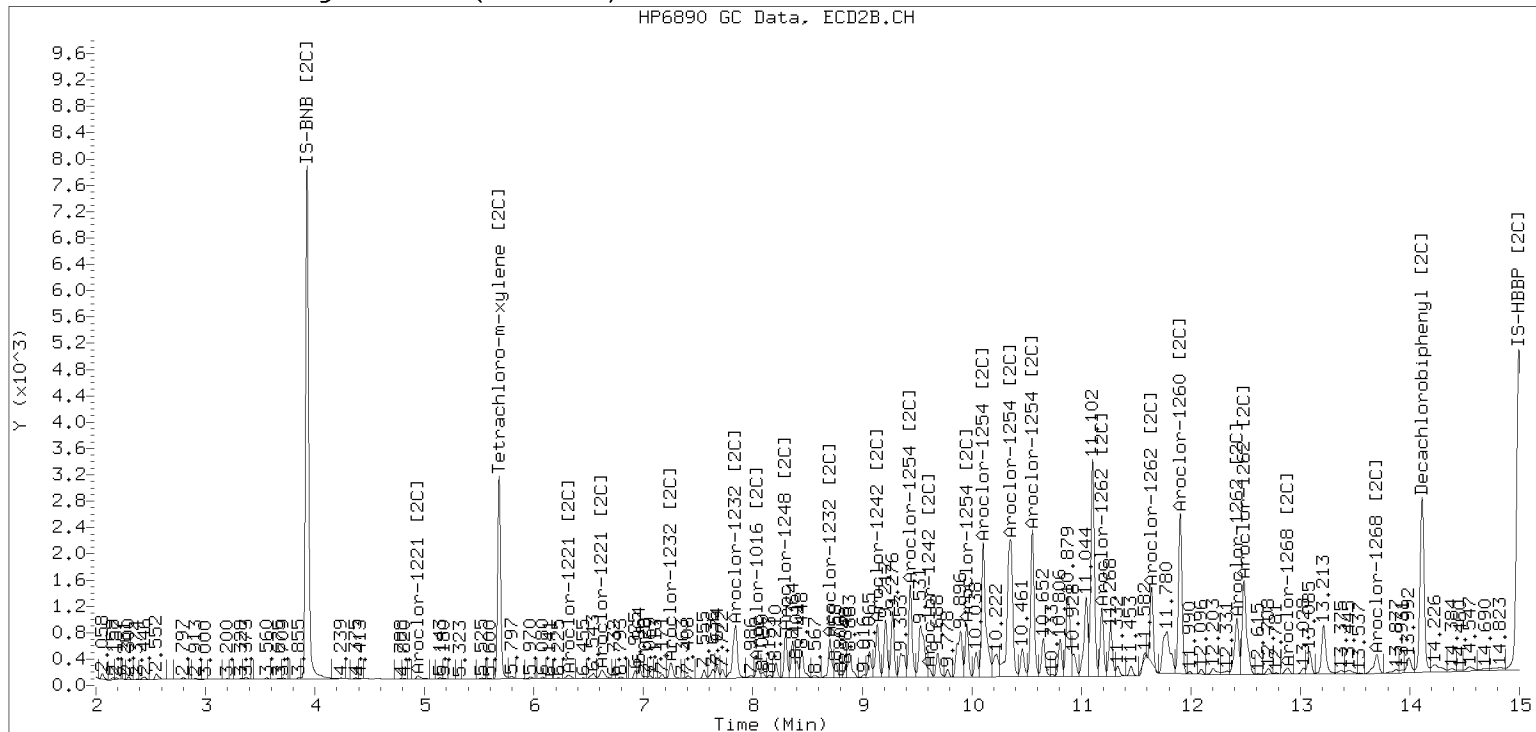
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230206.b/230206.b/02062344ECD7.D Injection Date: 07-FEB-2023

Manual Integration (After)



Processed Integration (Before)





PREPARATION BATCH SUMMARY
EPA 8082A

Laboratory: Analytical Resources, LLC SDG: 23A0180
Client: Anchor QEA, LLC Project: AOC5 MR Phase 1
Batch: BLA0559 Batch Matrix: Solid Preparation: EPA 3546 (Microwave)

| SAMPLE NAME | LAB SAMPLE ID | LAB FILE ID | DATE PREPARED | OBSERVATIONS |
|-----------------|---------------|----------------|----------------|--------------|
| LDW23-SC1164 | 23A0180-01 | 02062328ECD7.D | 01/26/23 14:06 | |
| LDW23-SC1164-FD | 23A0180-02 | 02062329ECD7.D | 01/26/23 14:06 | |
| LDW23-SC1158 | 23A0180-03 | 02062330ECD7.D | 01/26/23 14:06 | |
| LDW23-SC1151 | 23A0180-04 | 02042342ECD7.D | 01/26/23 14:06 | |
| LDW23-SC1145 | 23A0180-05 | 02042343ECD7.D | 01/26/23 14:06 | |
| LDW23-SC1139 | 23A0180-06 | 02072304ECD7.D | 01/26/23 14:06 | |
| LDW23-SC1066 | 23A0180-07 | 02062321ECD7.D | 01/26/23 14:06 | |
| LDW23-SC1061 | 23A0180-08 | 02062333ECD7.D | 01/26/23 14:06 | |
| LDW23-SC1117 | 23A0180-09 | 02042349ECD7.D | 01/26/23 14:06 | |
| LDW23-SC1093 | 23A0180-10 | 02062335ECD7.D | 01/26/23 14:06 | |
| LDW23-SC1094 | 23A0180-11 | 02062336ECD7.D | 01/26/23 14:06 | |
| LDW23-SC1103 | 23A0180-12 | 02062337ECD7.D | 01/26/23 14:06 | |
| LDW23-SC1100 | 23A0180-13 | 02042353ECD7.D | 01/26/23 14:06 | |
| LDW23-SC1101 | 23A0180-14 | 02062341ECD7.D | 01/26/23 14:06 | |
| LDW23-SC1096 | 23A0180-15 | 02062344ECD7.D | 01/26/23 14:06 | |
| Blank | BLA0559-BLK1 | 02062324ECD7.D | 01/26/23 14:06 | |
| LCS | BLA0559-BS1 | 02062325ECD7.D | 01/26/23 14:06 | |
| LCS Dup | BLA0559-BSD1 | 02062326ECD7.D | 01/26/23 14:06 | |
| LDW23-SC1101 | BLA0559-MS1 | 02062342ECD7.D | 01/26/23 14:06 | |
| LDW23-SC1101 | BLA0559-MSD1 | 02062343ECD7.D | 01/26/23 14:06 | |
| Reference | BLA0559-SRM1 | 02062327ECD7.D | 01/26/23 14:06 | |



Batch: BLA0559

Prepared using: EPA 3546 (Microwave)

8082A PCB Solid 4 in Solid (Version:7 Aroclors)

Matrix: Solid

Date Prepared: 01/26/23

Balance ID: B146462614

Set Up By: CP 1/24/23

WO Comments

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

The following standards may be missing from this batch!

| Designator | Description |
|------------|-------------|
| QLS 5 | QLS Spike |

Analysis: 8082A PCB Solid 4

| Lab Number & Container | % Solids | Initial (g) | | (REQ) Acid C/U (5mL) | (REQ) Sulfur C/U (5mL) | (REQ) Silica Gel C/U (2:5) | Final Effective Vol (mL) | Vol (mL) to Lab | Extraction Comments |
|------------------------|----------|------------------------|--------|----------------------|------------------------|----------------------------|--------------------------|-----------------|---------------------|
| | | Target Dry: 12.5 (Wet) | Actual | | | | | | |
| 23A0180-01 A | 51.4 | (24.34) | 24.35 | 5mL | 5mL | 2mL | 2.5 | 1.0 | |
| 23A0180-02 A | 53.0 | (23.58) | 23.64 | 5mL | 5mL | 2mL | 2.5 | 1.0 | |
| 23A0180-03 A | 54.3 | (23.02) | 23.42 | 5mL | 5mL | 2mL | 2.5 | 1.0 | |
| 23A0180-04 A | 56.1 | (22.28) | 22.29 | 5mL | 5mL | 2mL | 2.5 | 1.0 | |
| 23A0180-05 A | 55.1 | (22.68) | 22.74 | 5mL | 5mL | 2mL | 2.5 | 1.0 | |
| 23A0180-06 A | 55.9 | (22.35) | 22.44 | 5mL | 5mL | 2mL | 2.5 | 1.0 | |
| 23A0180-07 A | 50.3 | (24.87) | 24.87 | 5mL | 5mL | 2mL | 2.5 | 1.0 | |
| 23A0180-08 A | 51.8 | (24.15) | 24.16 | 5mL | 5mL | 2mL | 2.5 | 1.0 | |
| 23A0180-09 A | 51.5 | (24.25) | 24.34 | 5mL | 5mL | 2mL | 2.5 | 1.0 | |
| 23A0180-10 A | 52.8 | (23.68) | 23.74 | 5mL | 5mL | 2mL | 2.5 | 1.0 | |
| 23A0180-11 A | 51.6 | (24.23) | 24.29 | 5mL | 5mL | 2mL | 2.5 | 1.0 | |
| 23A0180-12 A | 48.2 | (25.91) | 25.92 | 5mL | 5mL | 2mL | 2.5 | 1.0 | |
| 23A0180-13 A | 48.3 | (25.89) | 25.89 | 5mL | 5mL | 2mL | 2.5 | 1.0 | |
| 23A0180-14 A | 63.6 | (19.64) | 19.65 | 5mL | 5mL | 2mL | 2.5 | 1.0 | |
| 23A0180-15 A | 46.0 | (27.19) | 27.19 | 5mL | 5mL | 2mL | 2.5 | 1.0 | |

Batch QC

| Lab Number | % Solids | Initial (g) | | (REQ) Acid C/U (5mL) | (REQ) Sulfur C/U (5mL) | (REQ) Silica Gel C/U (2:5) | Final Effective Vol (mL) | Vol (mL) to Lab | Extraction Comments |
|--------------|----------|---------------------------|--------|----------------------|------------------------|----------------------------|--------------------------|-----------------|---------------------|
| | | Target Dry: 12.5 (Wet) | Actual | | | | | | |
| BLA0559-BLK1 | 100.0 | (12.50) | 12.54 | 5mL | 5mL | 2mL | 2.5 | 1.0 | (10g Actual Wt.) |
| BLA0559-BS1 | 100.0 | (12.50) | 12.54 | 5mL | 5mL | 2mL | 2.5 | 1.0 | (10g Actual Wt.) |
| BLA0559-BSD1 | 100.0 | (12.50) | 12.54 | 5mL | 5mL | 2mL | 2.5 | 1.0 | (10g Actual Wt.) |
| BLA0559-MS1 | 63.6 | (19.64) | 19.64 | 5mL | 5mL | 2mL | 2.5 | 1.0 | Use 23A0180-14 |
| BLA0559-MSD1 | 63.6 | (19.64) | 19.64 | 5mL | 5mL | 2mL | 2.5 | 1.0 | Use 23A0180-14 |
| BLA0559-SRM1 | 100.0 | (12.50) ^(2.50) | 2.54 | 5mL | 5mL | 2mL | 2.5 | 1.0 | Use K011478 |

+1g DI WATER

Client ID verified By: CP 01/26/23

Date

Preparation Reviewed By: TWC 2/3/23

Date

Extraction Date and Time: 01/26/23 14:46



Batch: BLA0559

Prepared using: EPA 3546 (Microwave)
8082A PCB Solid 4 in Solid (Version:7 Aroclors)

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

Prep Steps

Reagents Used

Surrogates & Spike Standards Used

| Station/Reagent | Standard ID |
|---|-----------------|
| Microwave | |
| Analyst: <i>CTM</i> Date: <i>11/26/23</i> | |
| Neutral Glass Wool | <i>L000450</i> |
| 1:1 Hexane/Acetone | <i>L000646</i> |
| Hexane | <i>K0008310</i> |
| Anhydrous Sodium Sulfate | <i>I000453</i> |
| KD | |
| Analyst: <i>LJ</i> Date: <i>2/1/23</i> | |
| Anhydrous Sodium Sulfate | |
| Hexane | <i>K0011373</i> |
| Vialing | |
| Analyst: <i>TWC</i> Date: <i>2/3/23</i> | |
| Hexane | <i>K0011373</i> |
| Concentrated Sulfuric Acid | <i>L000633</i> |
| Silica Gel (SPE) Darts | <i>L000634</i> |
| Sodium Sulfite | <i>K000563</i> |
| Tetrabutylammonium hydrogensulfate (TBAS) | <i>L000840</i> |

| |
|---|
| Microwave <i>0 2 3</i> <i>CT 11/26/23</i> Analyst/Date |
| KD 100°C Hexane Exchange (2 X 20 mL) <i>0 1 2 3 4 5 6</i> <i>LJ 2/1/23</i> Analyst/Date |
| TurboVap Pre Cleanups <i>1 2 3 4 5</i> <i>TWC 2/3/23</i> Analyst/Date |
| TurboVap Post Cleanups <i>1 2 3 4 5</i> <i>TWC 2/3/23</i> Analyst/Date |
| Vialing <i>TWC 2/3/23</i> Analyst/Date |

| Type | Vial ID / Standard ID | Vol uL | Analyst | Witness |
|-----------|--------------------------|--------|-----------|-----------|
| Surrogate | N <i>L000773</i> | 50µL | <i>CT</i> | <i>aj</i> |
| 2µg/mL | Exp Date: <i>7/21/24</i> | | | |
| Spike | I <i>K008150</i> | 63µL | <i>CT</i> | <i>aj</i> |
| 20µg/mL | Exp Date: <i>3/15/24</i> | | | |

MANUALLY ENTER EXPIRATION DATES!

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

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



Batch: BLA0559

Prepared using: EPA 3546 (Microwave)
8082A PCB Solid 4 in Solid (Version:7 Aroclors)

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

| Prep Instructions | |
|---|--|
| <p>SPECIAL INSTRUCTIONS:</p> <ol style="list-style-type: none"> 1. Weigh soil/sed into beakers-lightly dry with sodium sulfate. 2. Transfer to microwave vessel(s). Note: (do not fill vessels more than 2/3rd full. Some samples may require two vessels). 3. Add 1:1 Hexane/Acetone until the solvent layer is 3 inches above the soil layer after homogenization. 4. Add surr/spike. 5. Microwave on appropriate power setting determined by # of samples. 6. After microwave-Re-homogenize while hot then cool vessels in R-05 15 minutes. Re-homogenize while cool. 7. Decant 1:1 Hex/Ace into Erlenmeyer flask with sodium sulfate in bottom and funnel with neutral glasswool plug. 8. Re-homogenize and rinse with 1:1 Hexane/Acetone. 9. Let cool and decant solvent then empty the soil into the funnel and rinse with Hexane. 10. KD on 100° bath. 11. Exchange (2 X with 20mL) Hexane. 12. TurboVap. 13. Clean-ups. 14. TurboVap. 15. Vial with Hexane. <p>A. Need Total Solids Y / <input type="checkbox"/></p> <p>B. Archive/Freeze <input checked="" type="checkbox"/></p> | |



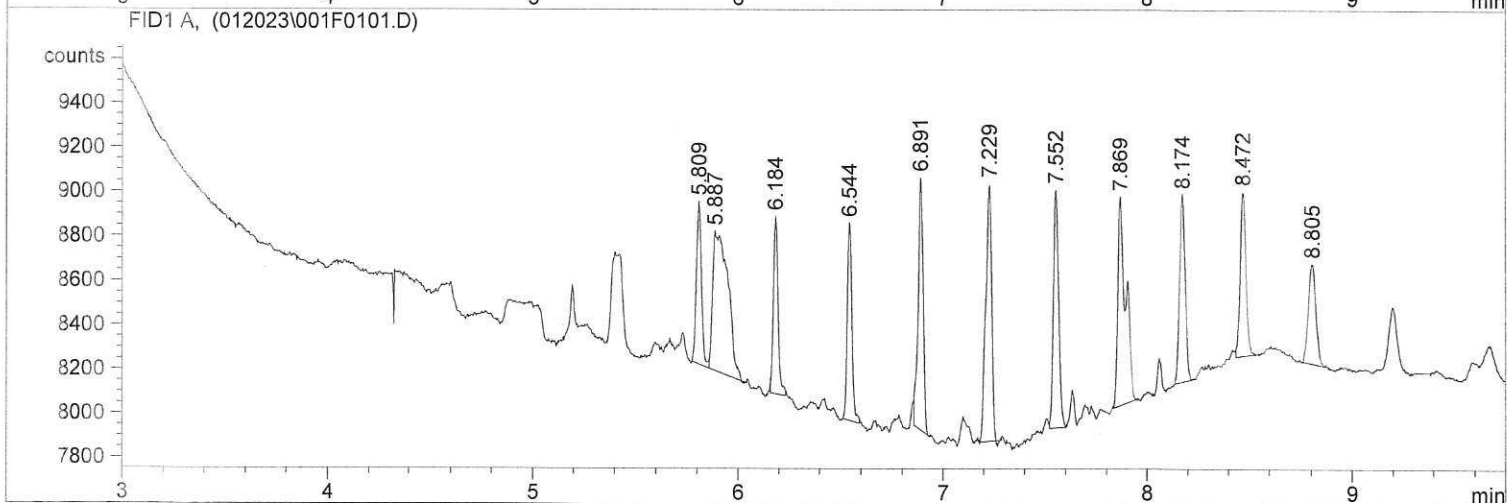
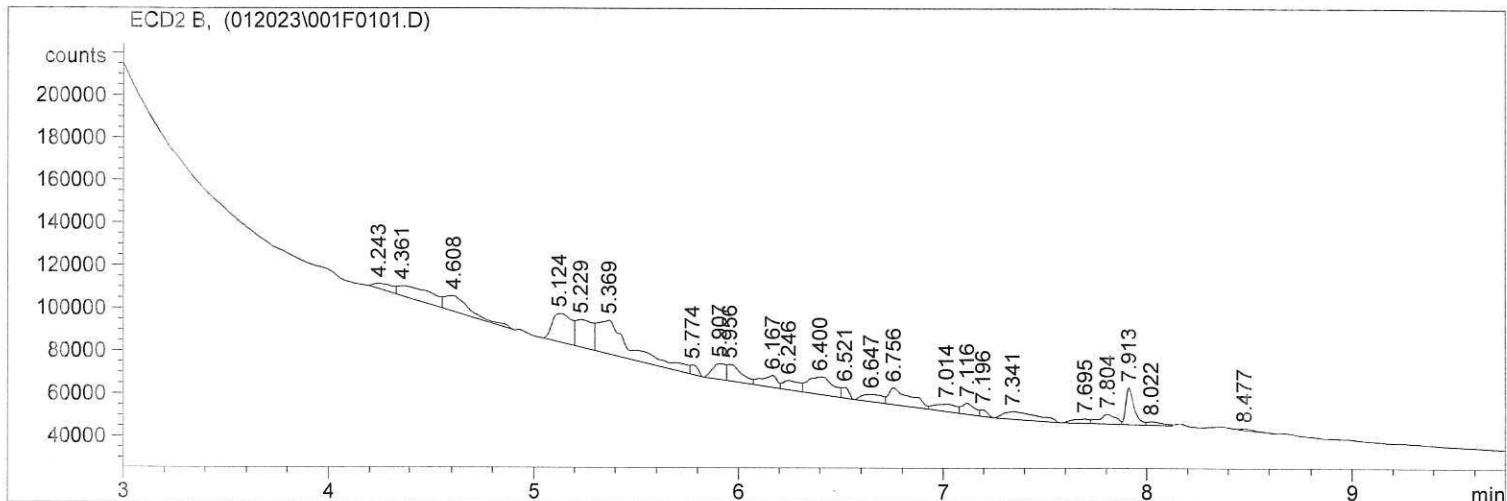
Extraction Parameter: PCB Extraction Batch BLA0179

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

| Screens: Soil/Sediment/Solid/Other: | Analyst/Date |
|---|-------------------|
| <input checked="" type="checkbox"/> No Anomalies (standard soil/wet sediment/sand/gravel)= <u>01-15</u> | <u>CR 1/20/23</u> |
| <input checked="" type="checkbox"/> Standing Water Decanted (Not shared)= <u>01-15</u> | <u>CR 1/20/23</u> |
| <input type="checkbox"/> Standing Water Homogenized (Shared samples)= | |
| <input type="checkbox"/> Clay/Clumps (Difficult to homogenize)= | |
| <input type="checkbox"/> Rocks (%+size)? | |
| <input type="checkbox"/> Organics (Leaves/sticks/grass)= | |
| <input type="checkbox"/> Oily, obvious fuel/sulfur odors= | |
| <input type="checkbox"/> Received in 32oz jar(s)=Homogenized in Pyrex dish= | |
| <input checked="" type="checkbox"/> Previously Frozen = <u>01-15</u> | <u>CR 1/20/23</u> |
| <input type="checkbox"/> Other (Details)= | |
| Aqueous: | |
| <input checked="" type="checkbox"/> No Anomalies | |
| <input type="checkbox"/> Turbid/Color= | |
| <input type="checkbox"/> Particulates(%)=(Note: >5%=Notify Supervisor/Lead) | |
| <input type="checkbox"/> Emulsions (%)= | |
| <input type="checkbox"/> Oily, obvious fuel/sulfur odors= | |
| <input type="checkbox"/> Other (Details)= | |
| <input type="checkbox"/> Received in 1.0L Bottle(s)=No Bottle Rinse= | |
| <input type="checkbox"/> Other Notes/Comments= (Note problems, concerns, corrective actions). | |
| <u>180-11 stayed on KD too long, lost solvent between exchange. Added ads. Res 1 w/trace</u> | <u>JS 2/1/23</u> |
| <input checked="" type="checkbox"/> Share Samples Y/(N) | <u>CR 1/24/23</u> |
| <input checked="" type="checkbox"/> Multiple Jars Y/(N) | <u>CR 1/20/23</u> |
| <input type="checkbox"/> Sample Pre-Screens indicate analyte activity= | |
| <input type="checkbox"/> Sample weights/volumes reduced based on Pre-Screen= | |

=====
Injection Date : 1/20/2023 5:21:41 PM Seq. Line : 1
Sample Name : DCM RINSE Location : Vial 1
Acq. Operator : CRR Inj : 1
 Inj Volume : 1 µl

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Last changed : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD
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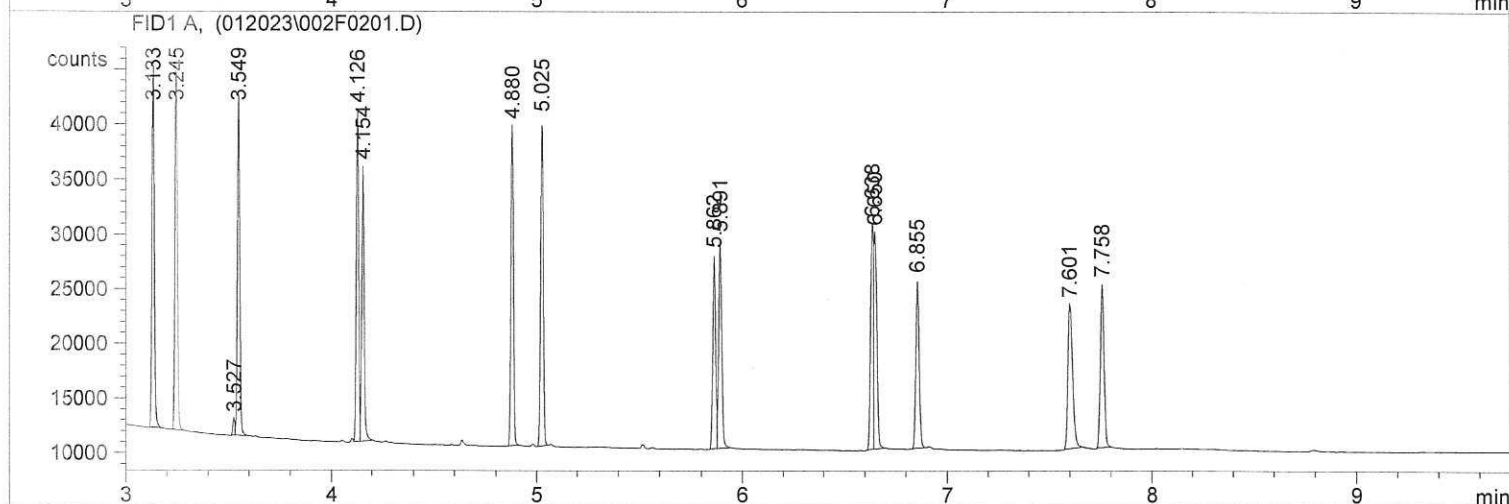
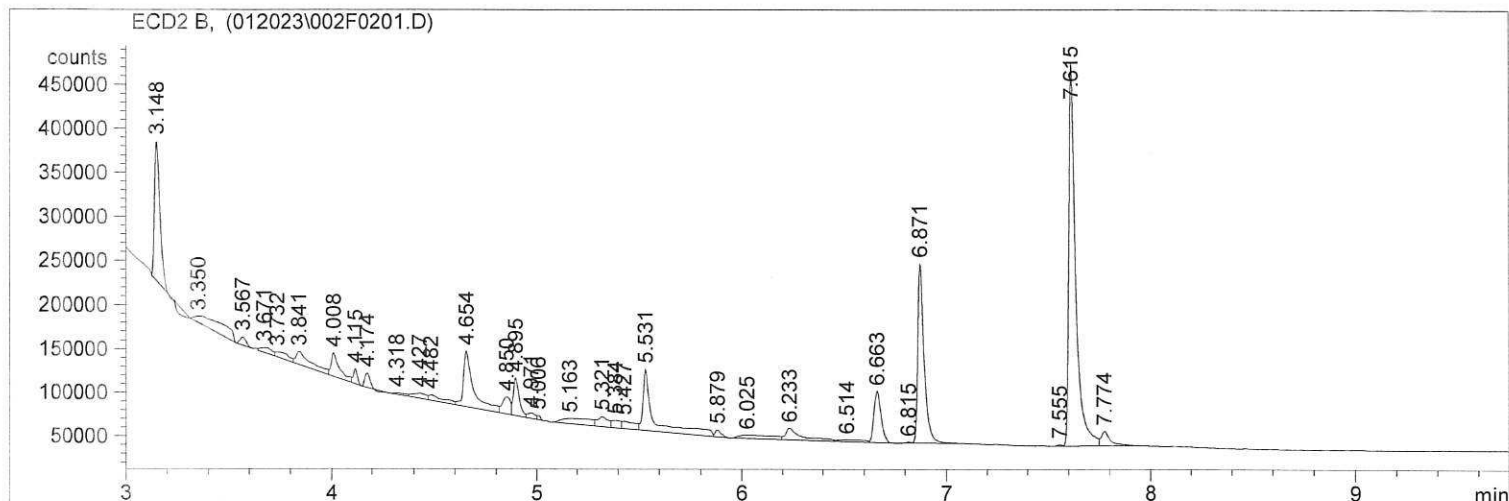


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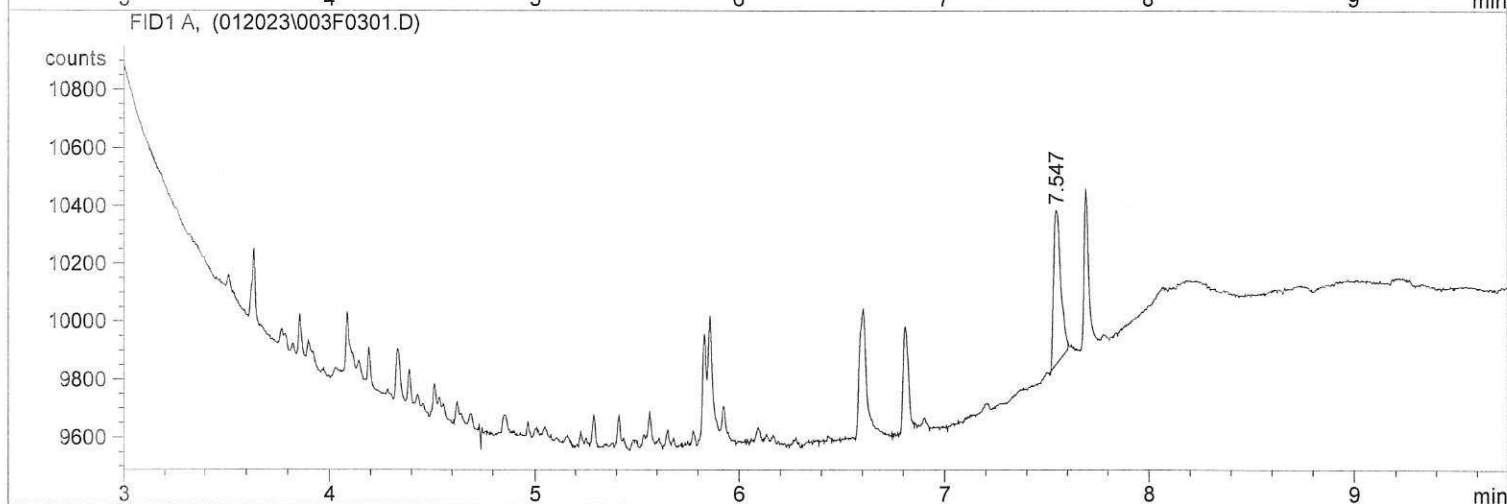
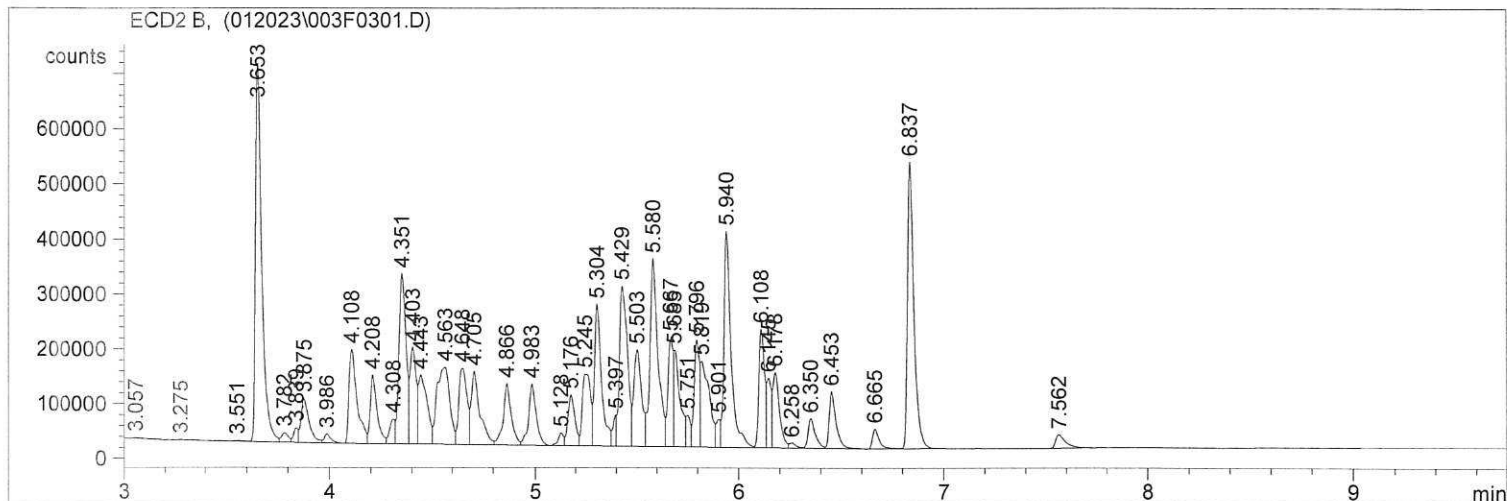
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Injection Date   : 1/20/2023 5:35:37 PM      Seq. Line :    2
Sample Name     : PNA STD 10PPM              Location  : Vial 2
Acq. Operator   : CRR                        Inj       :    1
                                           Inj Volume: 1 µl

Sequence File   : C:\HPCHEM\1\SEQUENCE\012023.S
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Last changed    : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD
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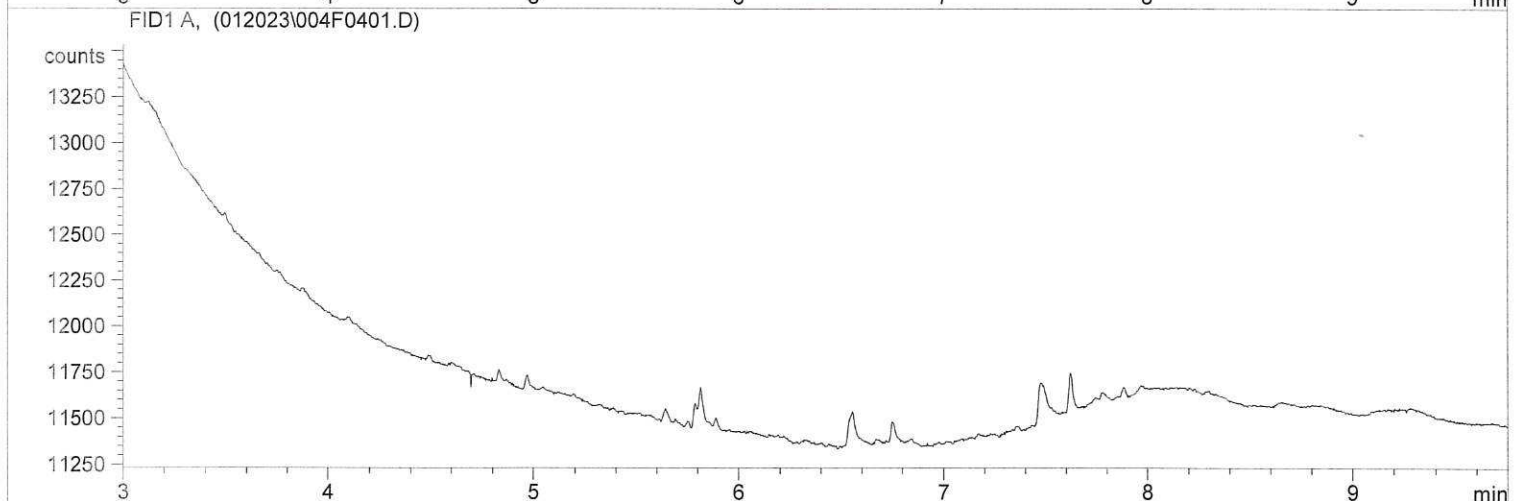
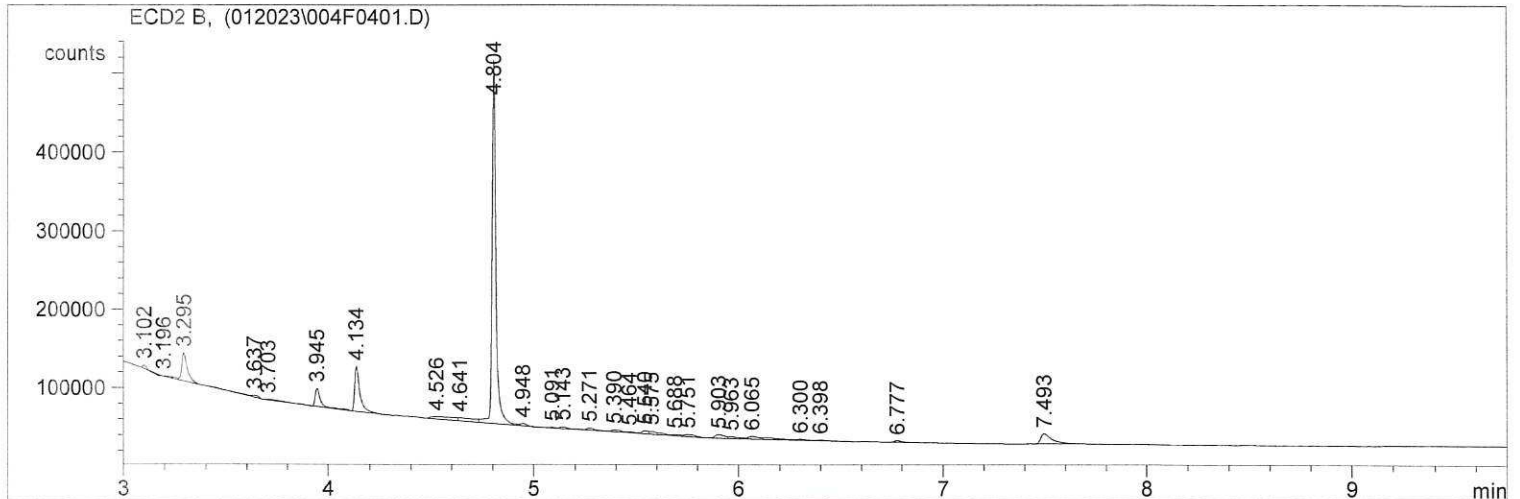
*** End of Report ***

=====
Injection Date : 1/20/2023 5:49:58 PM Seq. Line : 3
Sample Name : AR1660 1PPM Location : Vial 3
Acq. Operator : CRR Inj : 1
 Inj Volume : 1 µl
Sequence File : C:\HPCHEM\1\SEQUENCE\012023.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD
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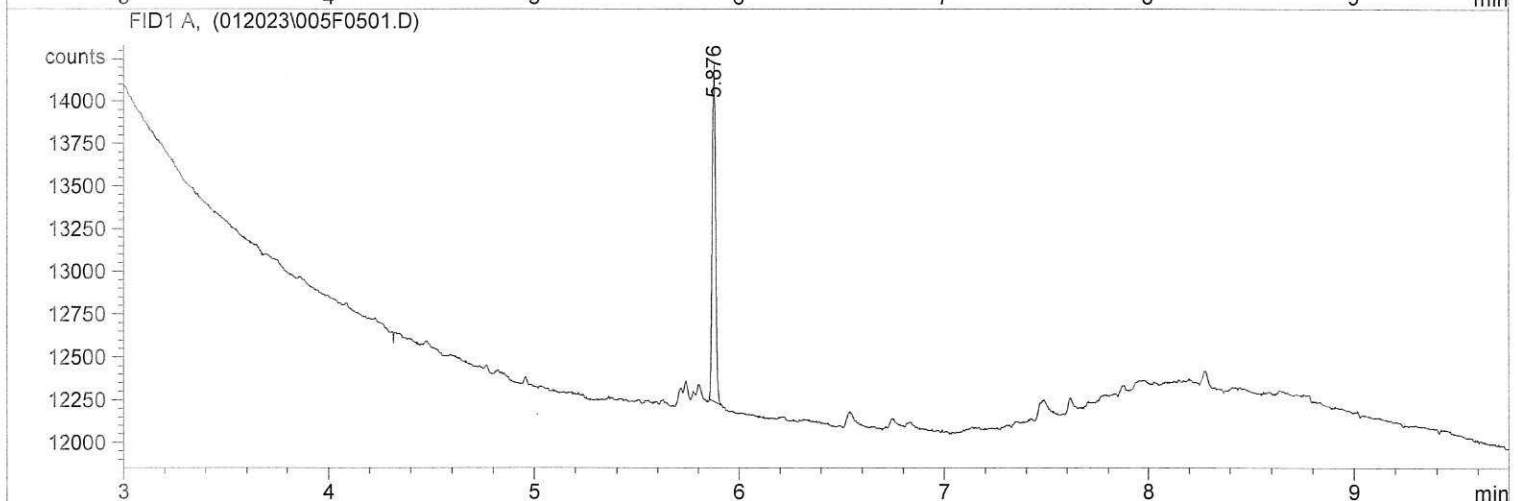
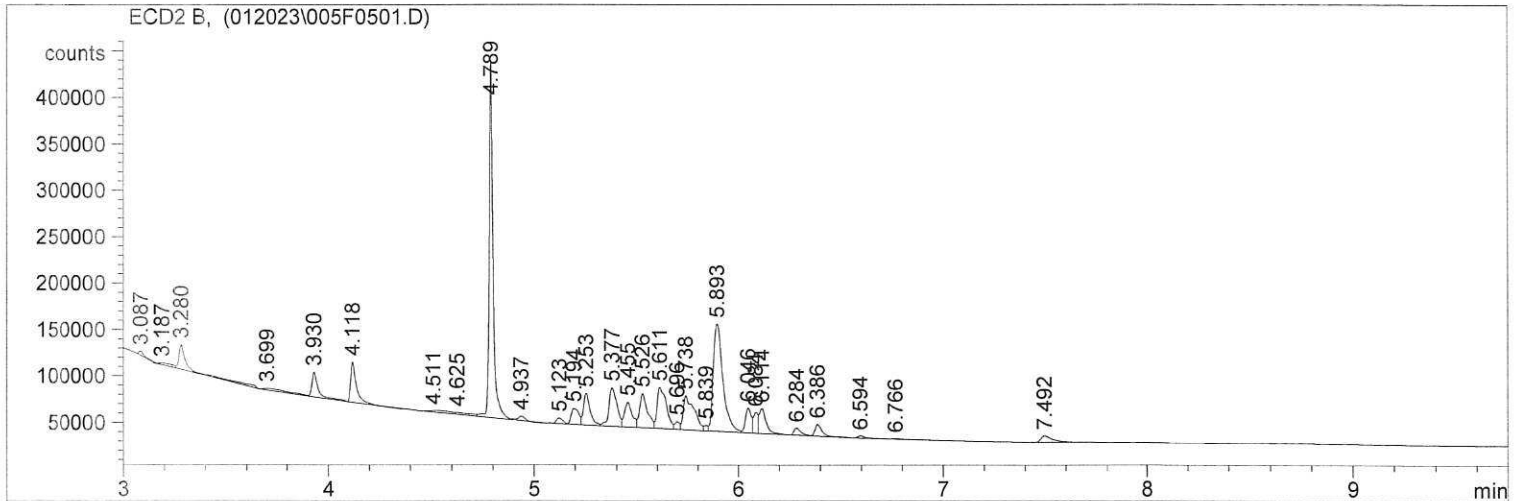
*** End of Report ***

=====
Injection Date : 1/20/2023 6:03:53 PM Seq. Line : 4
Sample Name : 23A0180 01 Location : Vial 4
Acq. Operator : CRR Inj : 1
 Inj Volume : 1 µl
Sequence File : C:\HPCHEM\1\SEQUENCE\012023.S
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Last changed : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD
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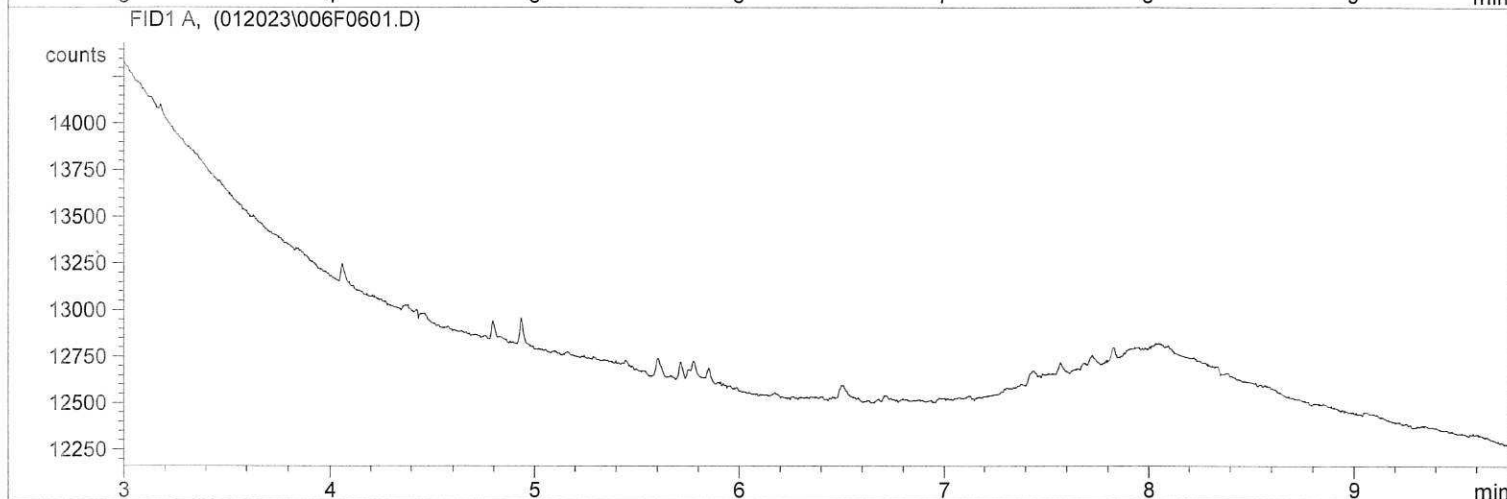
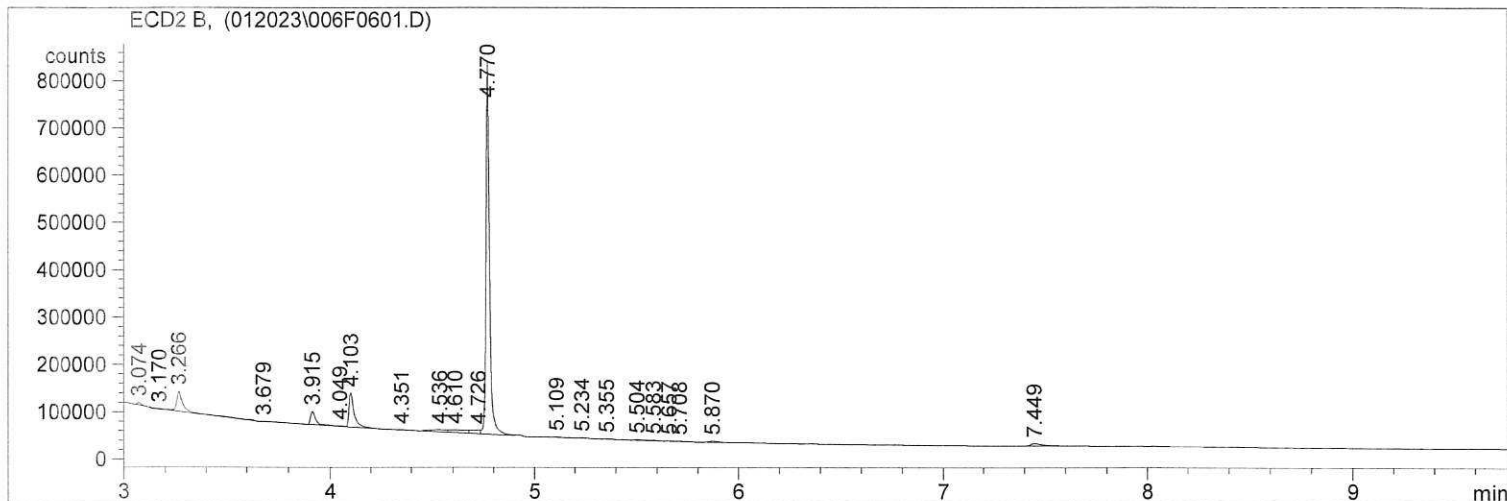
*** End of Report ***

=====
Injection Date : 1/20/2023 6:18:20 PM Seq. Line : 5
Sample Name : 23A0180 02 Location : Vial 5
Acq. Operator : CRR Inj : 1
 Inj Volume : 1 µl
Sequence File : C:\HPCHEM\1\SEQUENCE\012023.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD
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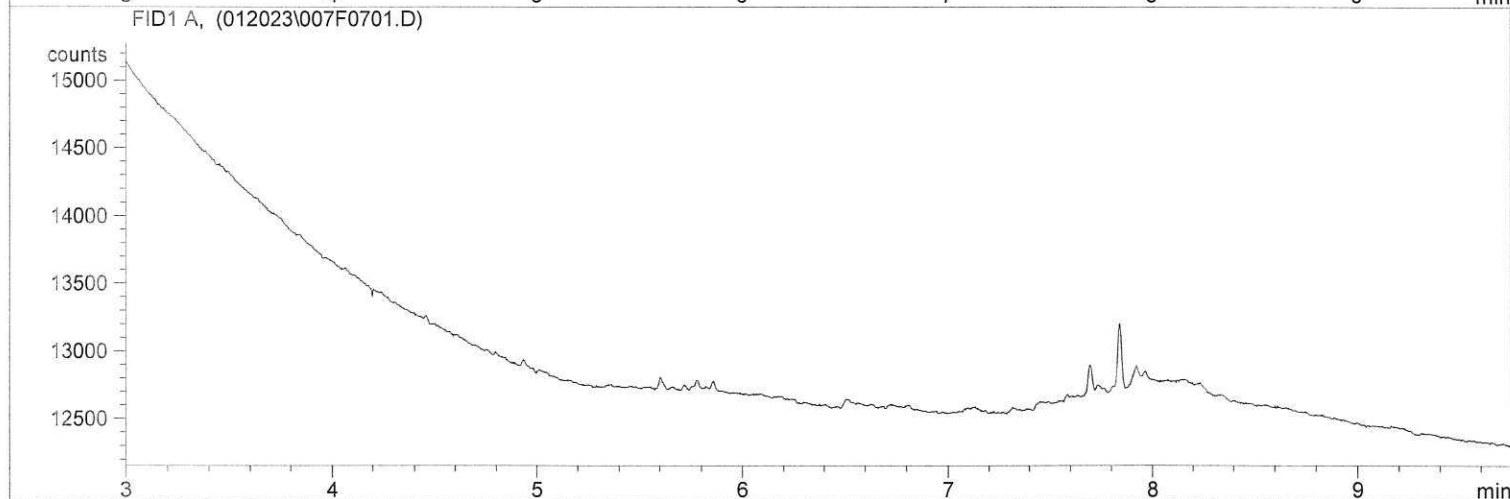
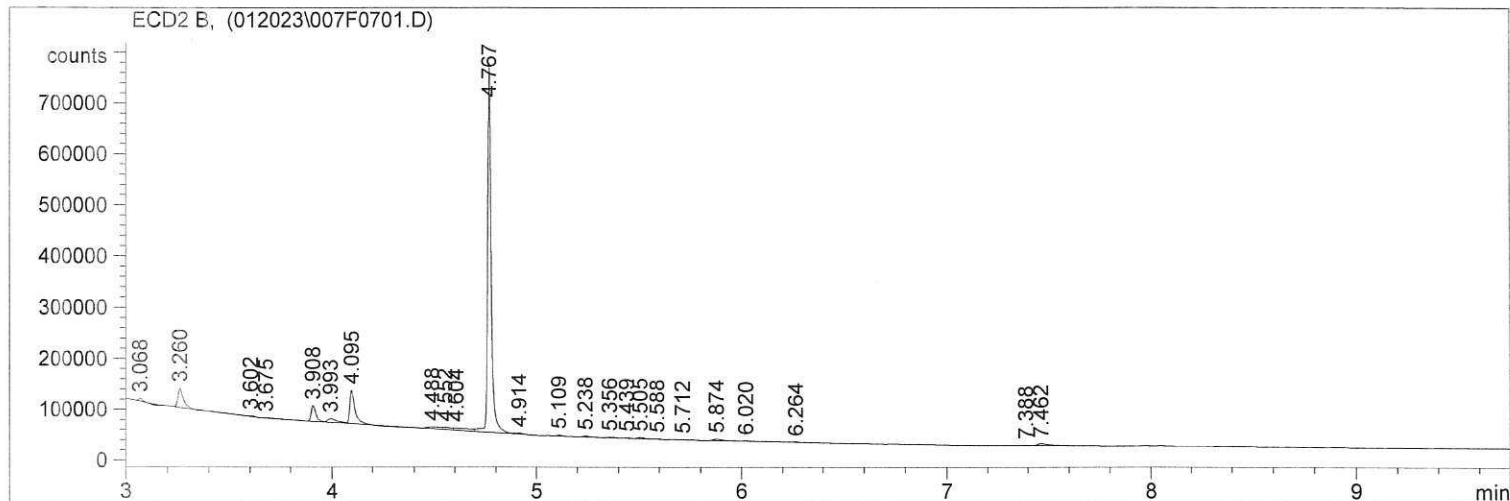
*** End of Report ***

=====
Injection Date : 1/20/2023 6:32:13 PM Seq. Line : 6
Sample Name : 23A0180 03 Location : Vial 6
Acq. Operator : CRR Inj : 1
 Inj Volume : 1 µl
Sequence File : C:\HPCHEM\1\SEQUENCE\012023.S
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Last changed : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD
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*** End of Report ***

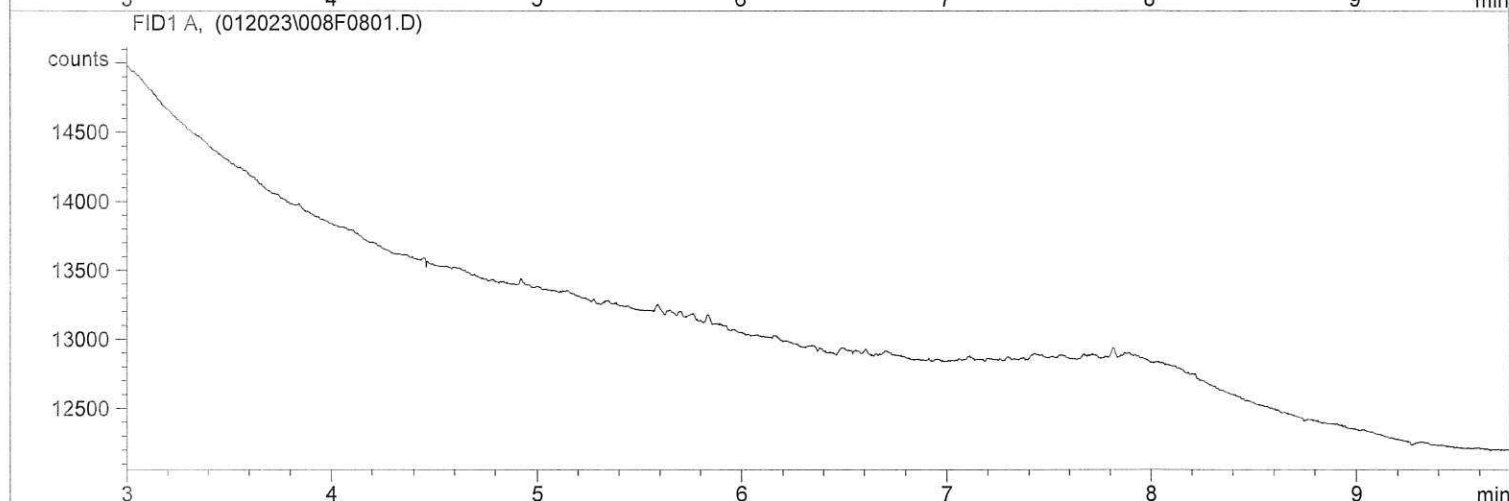
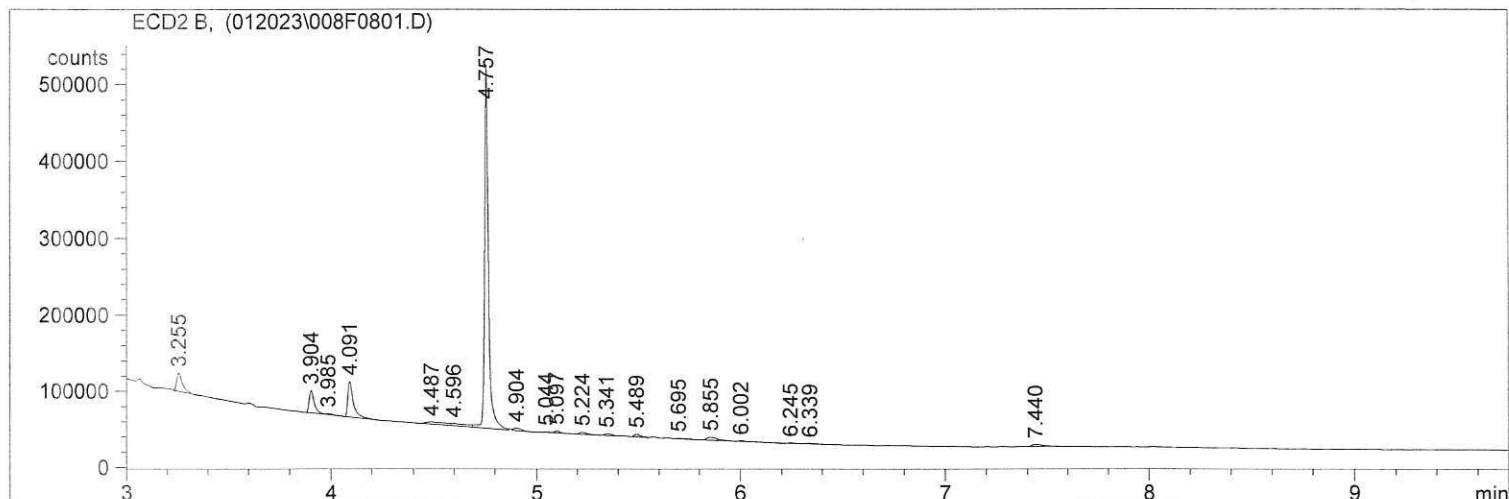
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Injection Date : 1/20/2023 6:46:43 PM Seq. Line : 7
Sample Name : 23A0180 04 Location : Vial 7
Acq. Operator : CRR Inj : 1
 Inj Volume : 1 µl
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SCREEN METHOD
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*** End of Report ***

=====
Injection Date : 1/20/2023 7:00:39 PM Seq. Line : 8
Sample Name : 23A0180 05 Location : Vial 8
Acq. Operator : CRR Inj : 1
 Inj Volume : 1 µl

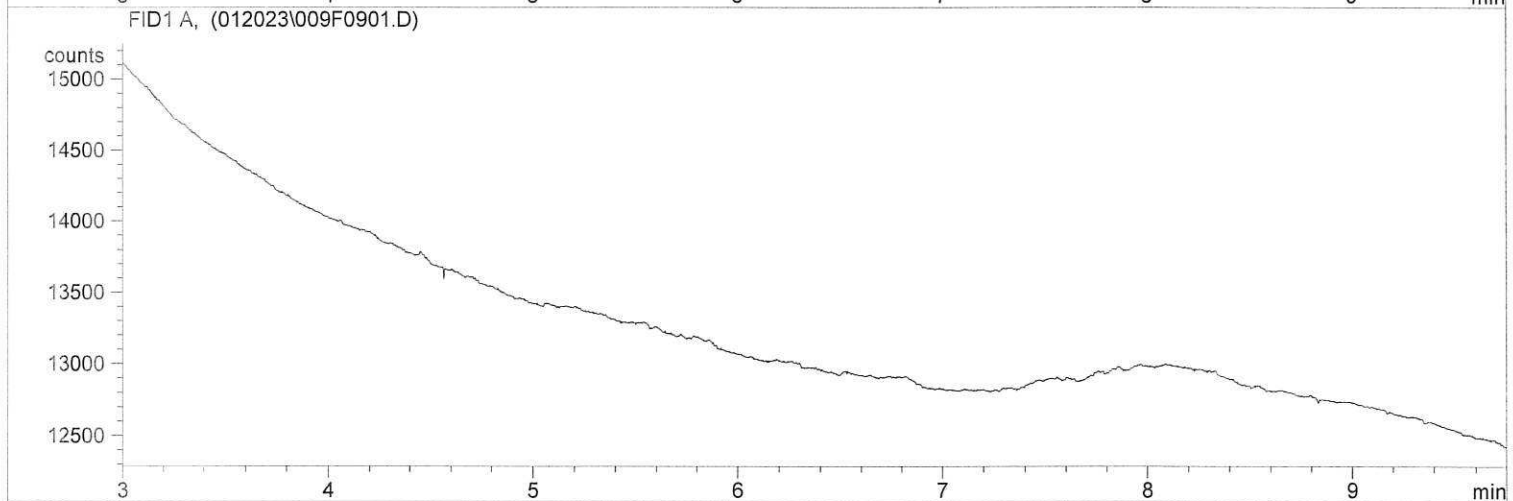
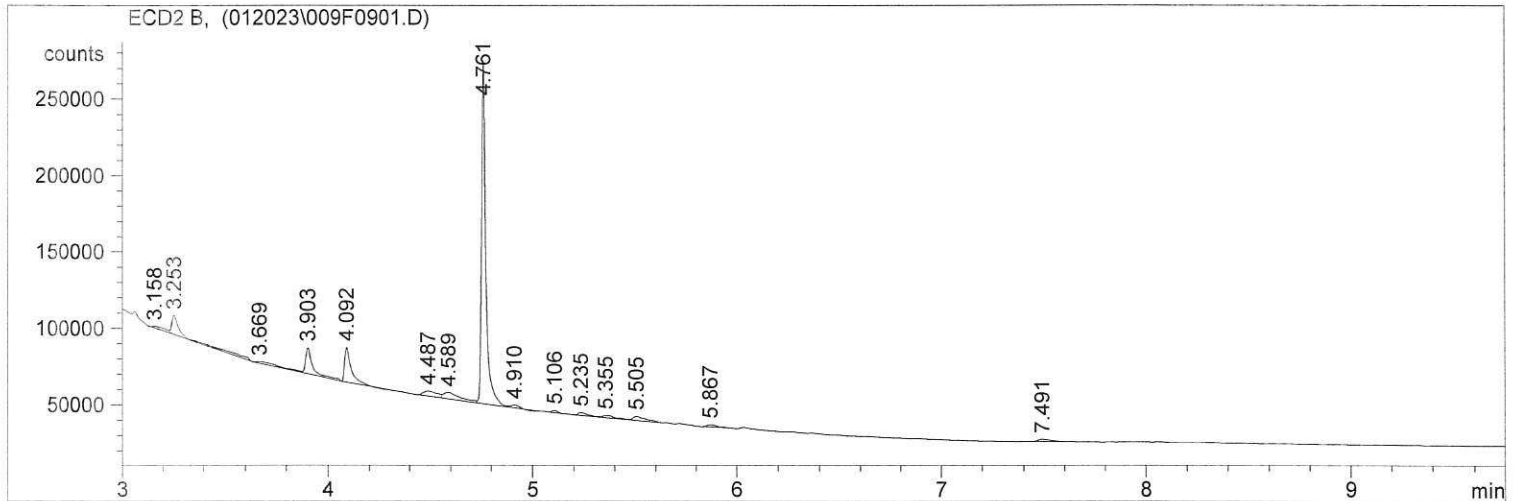
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SCREEN METHOD
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*** End of Report ***

=====
Injection Date : 1/20/2023 7:15:08 PM Seq. Line : 9
Sample Name : 23A0180 06 Location : Vial 9
Acq. Operator : CRR Inj : 1
 Inj Volume : 1 µl

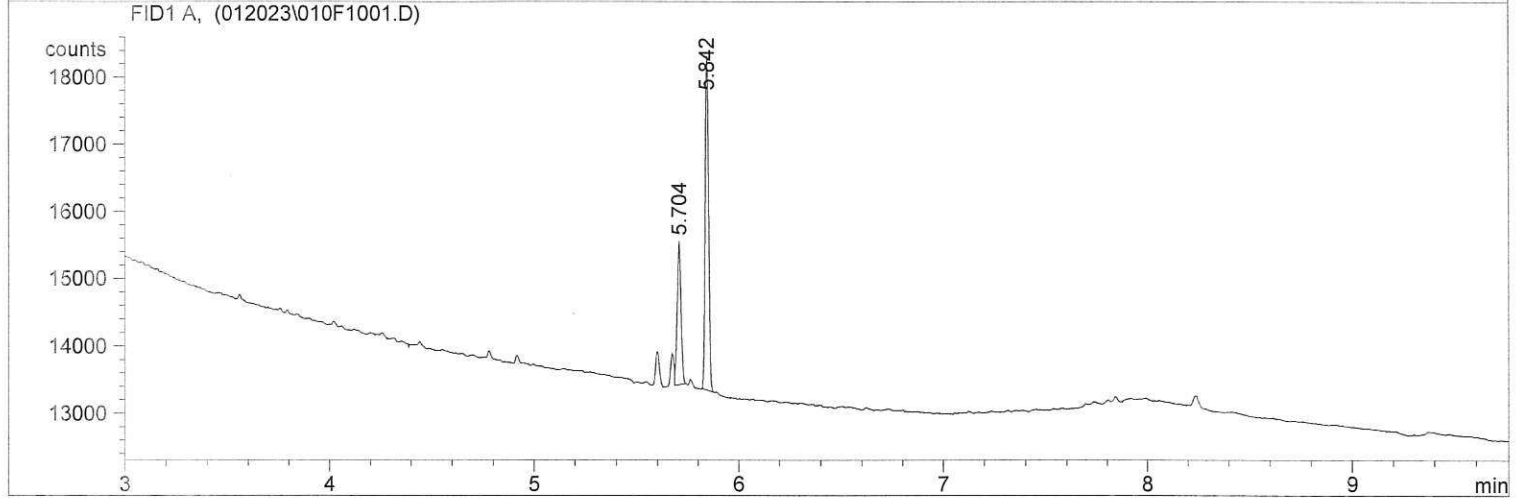
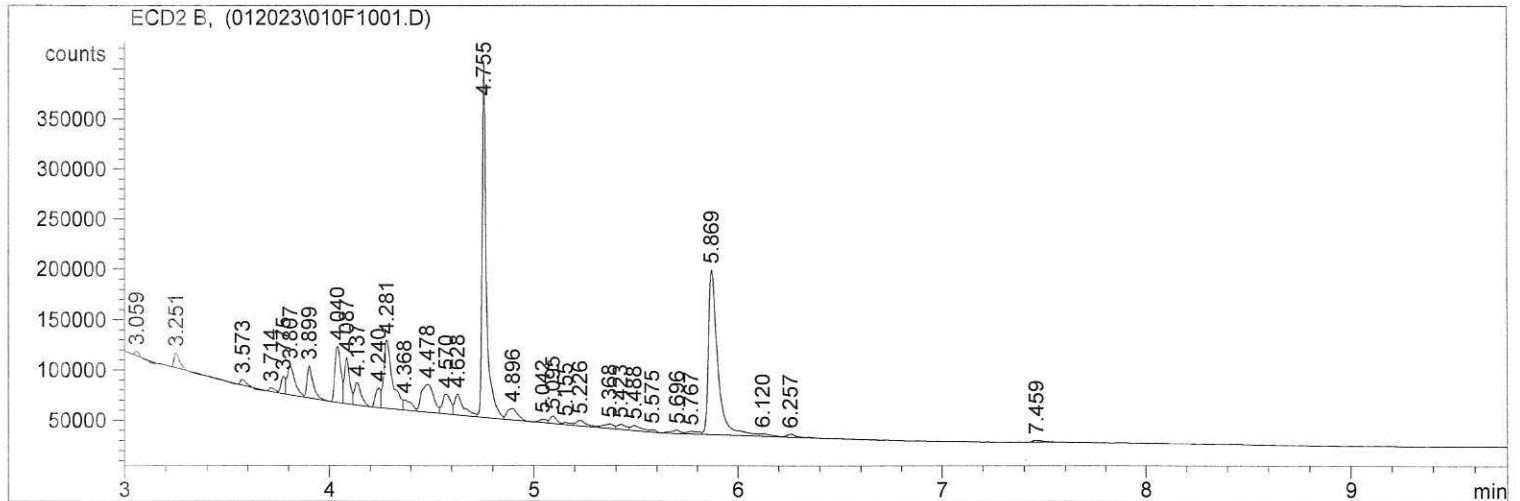
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*** End of Report ***

=====
Injection Date : 1/20/2023 7:29:08 PM Seq. Line : 10
Sample Name : 23A0180 07 Location : Vial 10
Acq. Operator : CRR Inj : 1
 Inj Volume : 1 µl

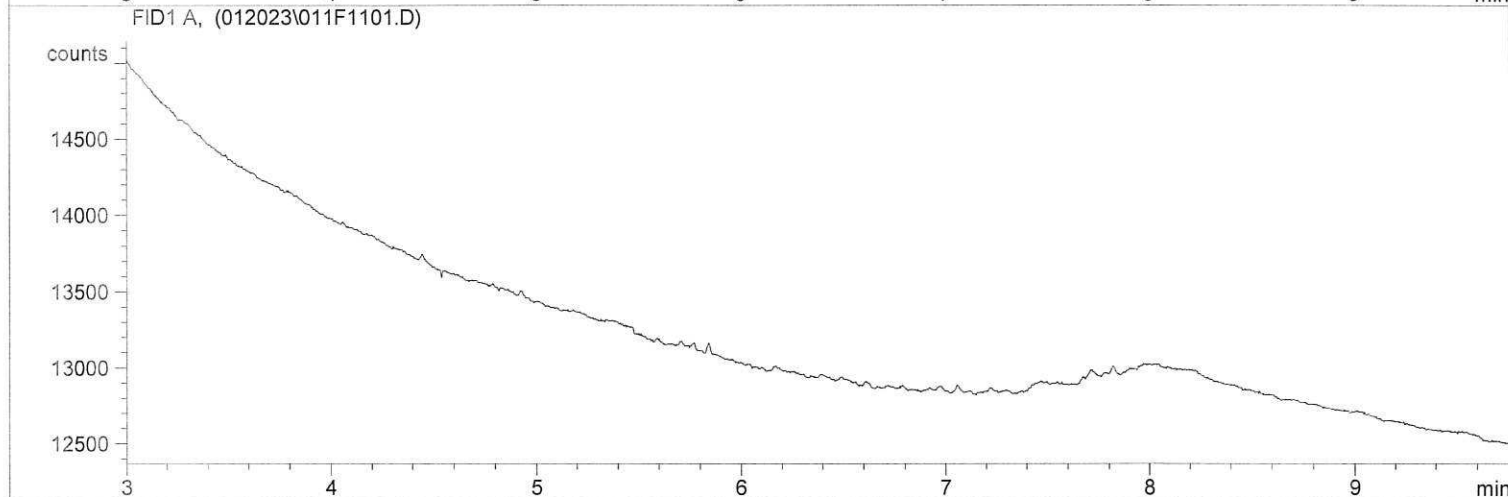
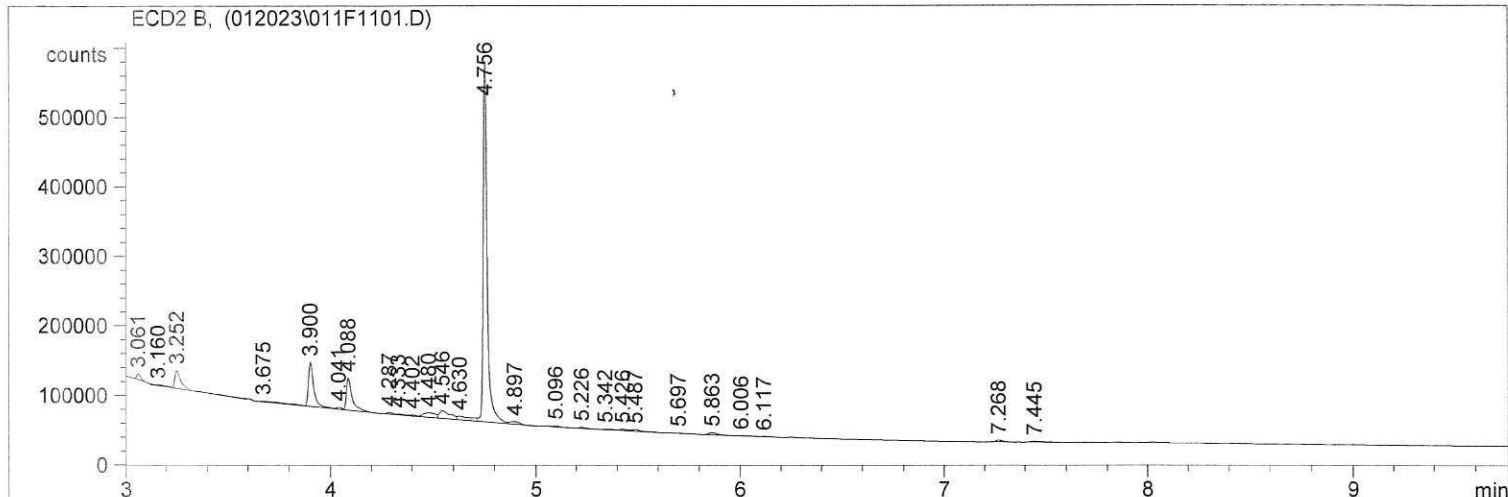
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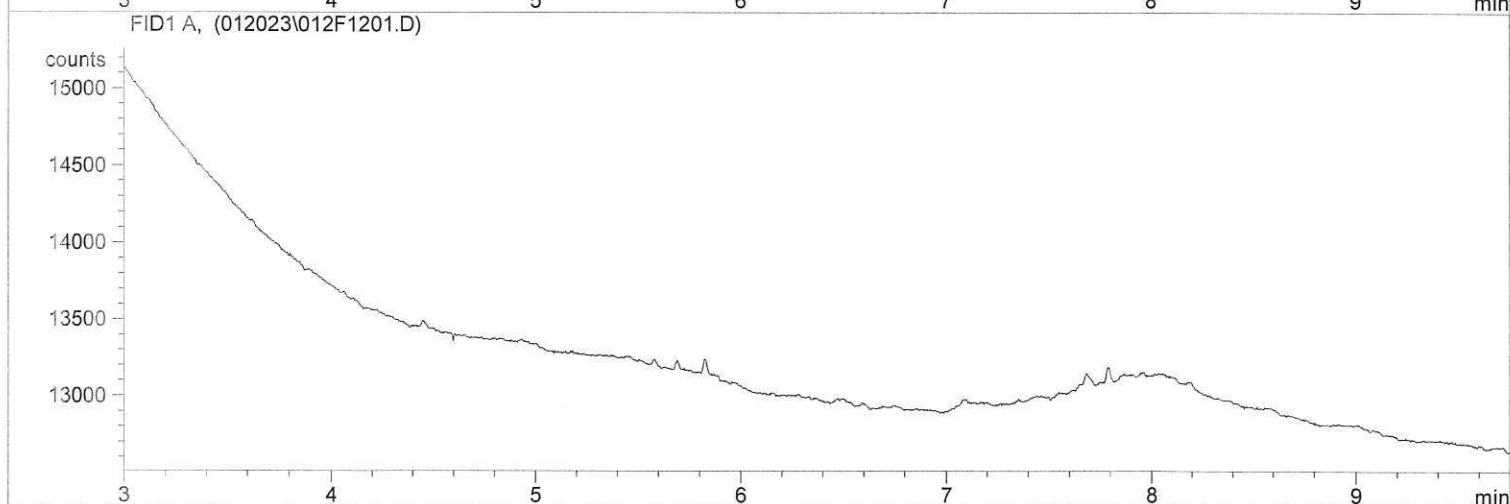
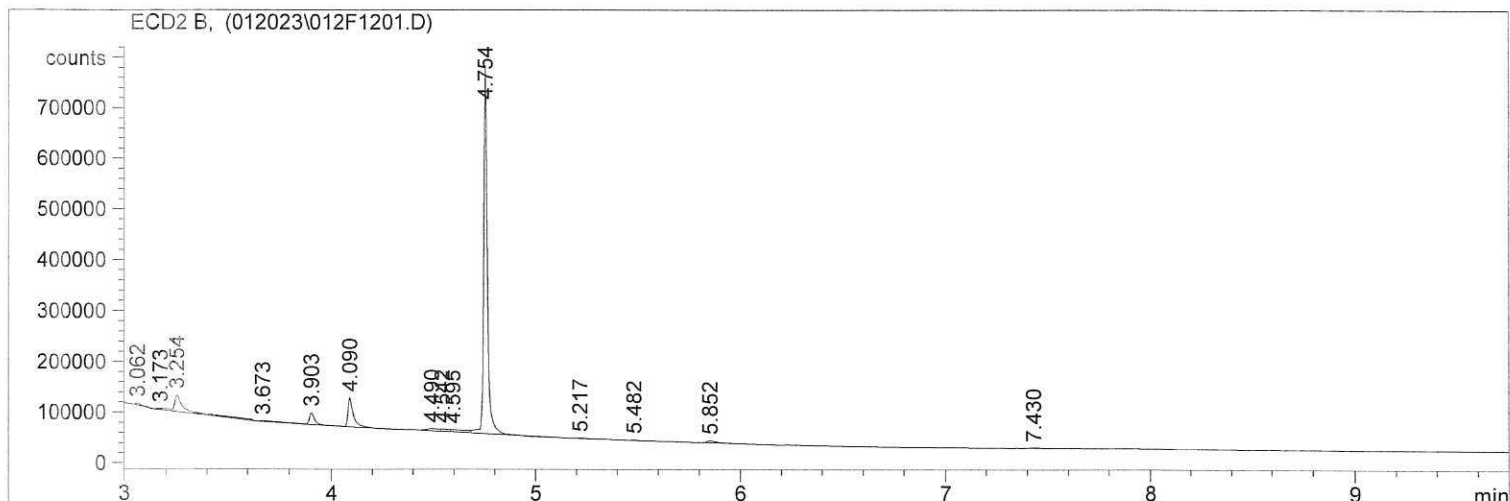
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Injection Date : 1/20/2023 7:43:36 PM Seq. Line : 11
Sample Name : 23A0180 08 Location : Vial 11
Acq. Operator : CRR Inj : 1
 Inj Volume : 1 µl

Sequence File : C:\HPCHEM\1\SEQUENCE\012023.S
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Last changed : 7/9/2021 3:37:33 AM by TW
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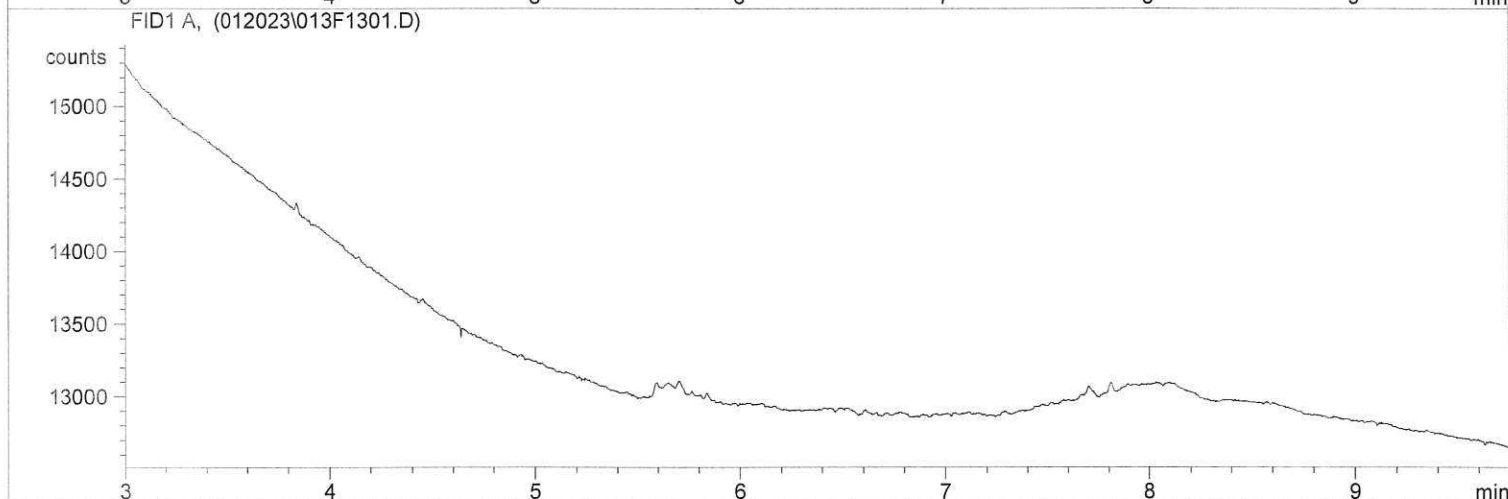
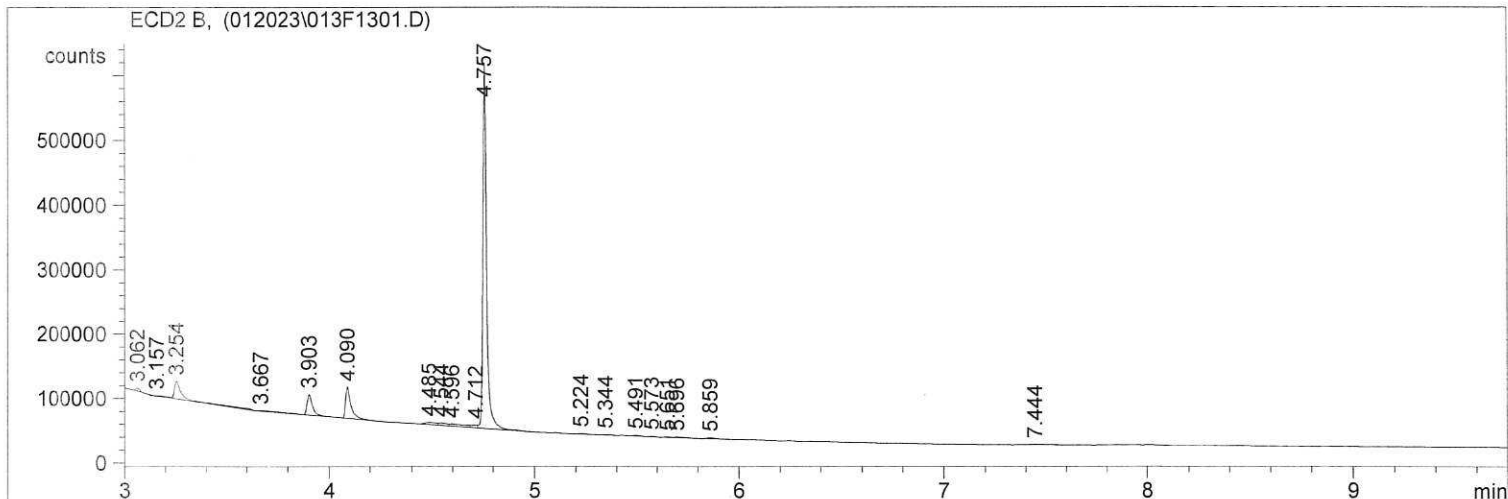
=====
Injection Date : 1/20/2023 7:57:33 PM Seq. Line : 12
Sample Name : 23A0180 09 Location : Vial 12
Acq. Operator : CRR Inj : 1
 Inj Volume : 1 µl
Sequence File : C:\HPCHEM\1\SEQUENCE\012023.S
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Last changed : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD
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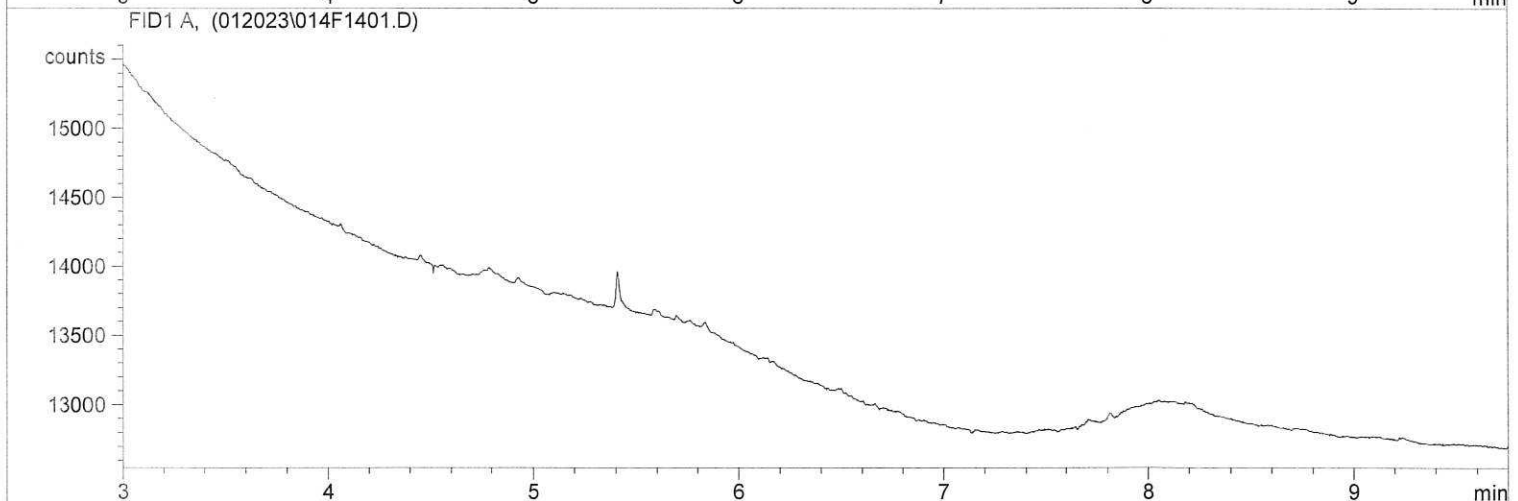
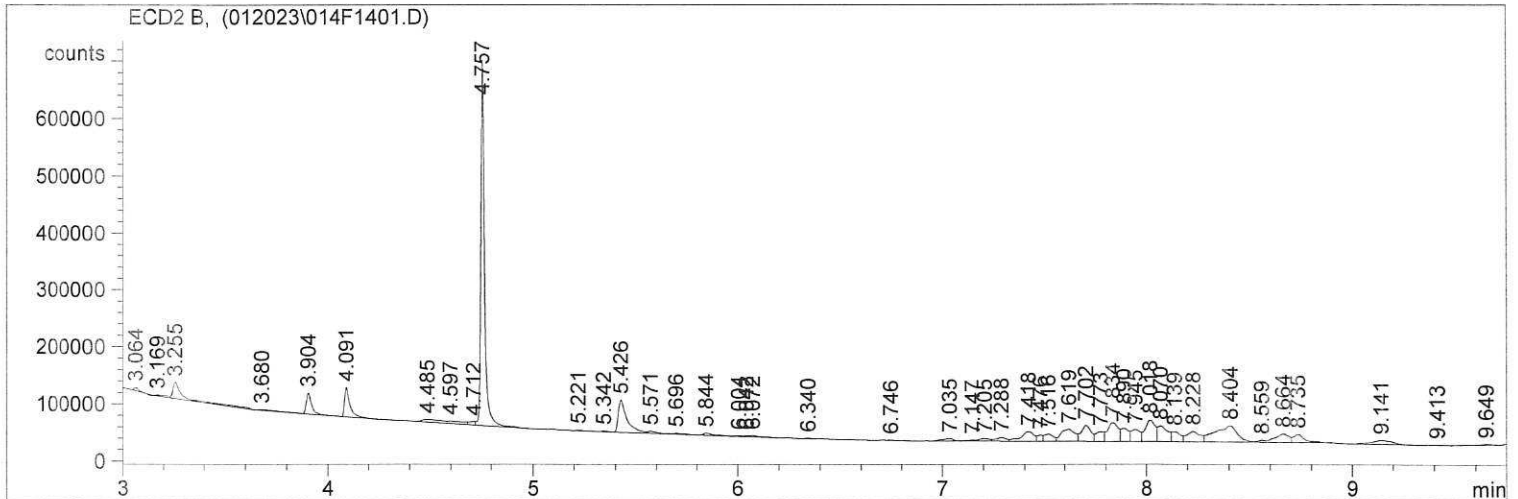
=====
Injection Date : 1/20/2023 8:12:04 PM Seq. Line : 13
Sample Name : 23A0180 10 Location : Vial 13
Acq. Operator : CRR Inj : 1
 Inj Volume : 1 µl

Sequence File : C:\HPCHEM\1\SEQUENCE\012023.S
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Last changed : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD
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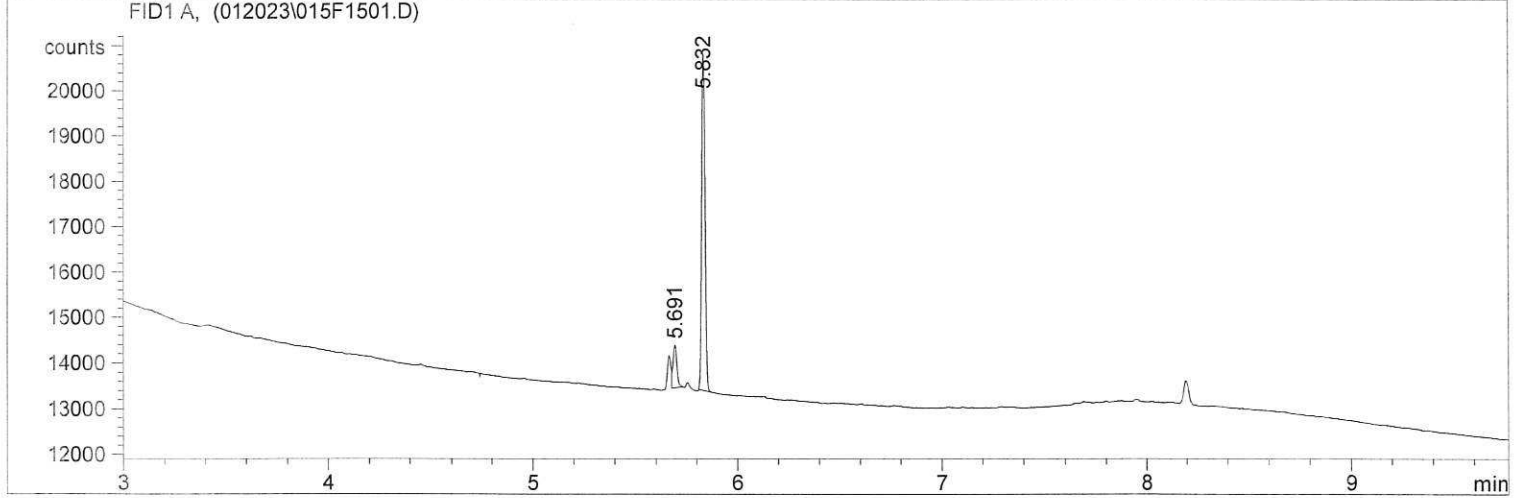
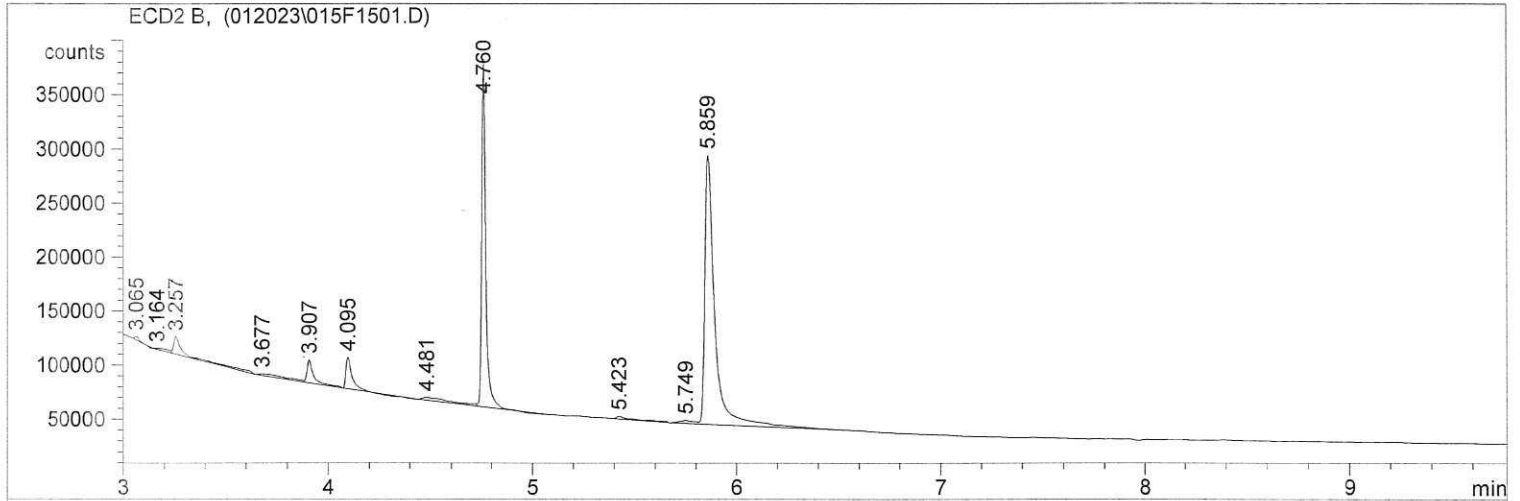
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Injection Date : 1/20/2023 8:25:59 PM Seq. Line : 14
Sample Name : 23A0180 11 Location : Vial 14
Acq. Operator : CRR Inj : 1
 Inj Volume : 1 µl
Sequence File : C:\HPCHEM\1\SEQUENCE\012023.S
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Last changed : 7/9/2021 3:37:33 AM by TW
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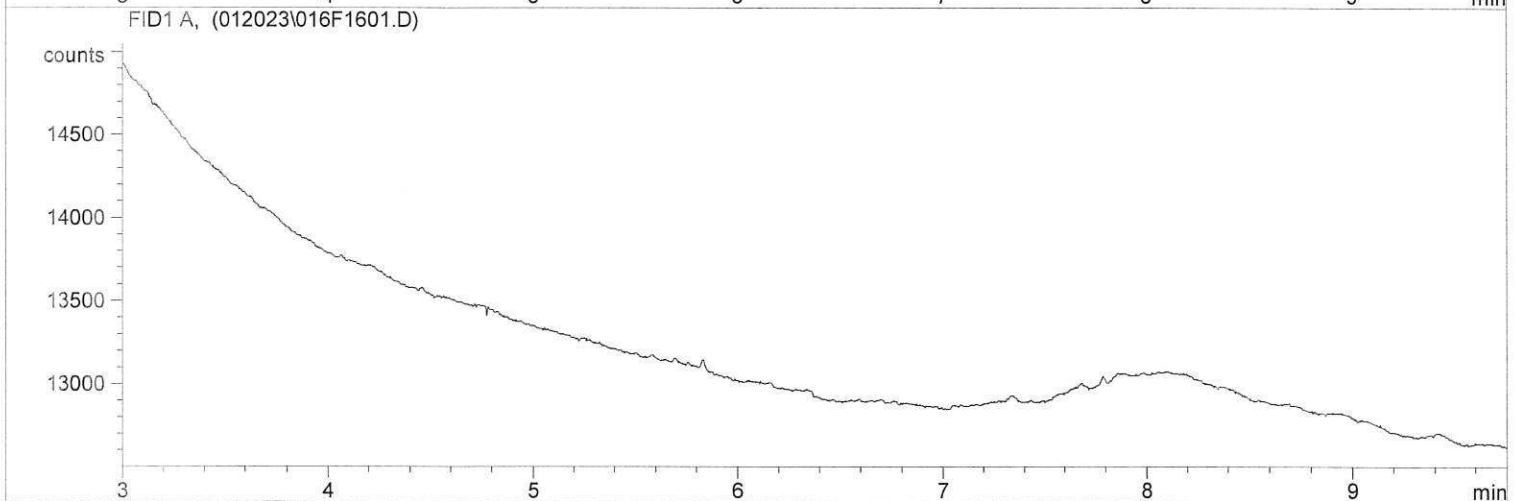
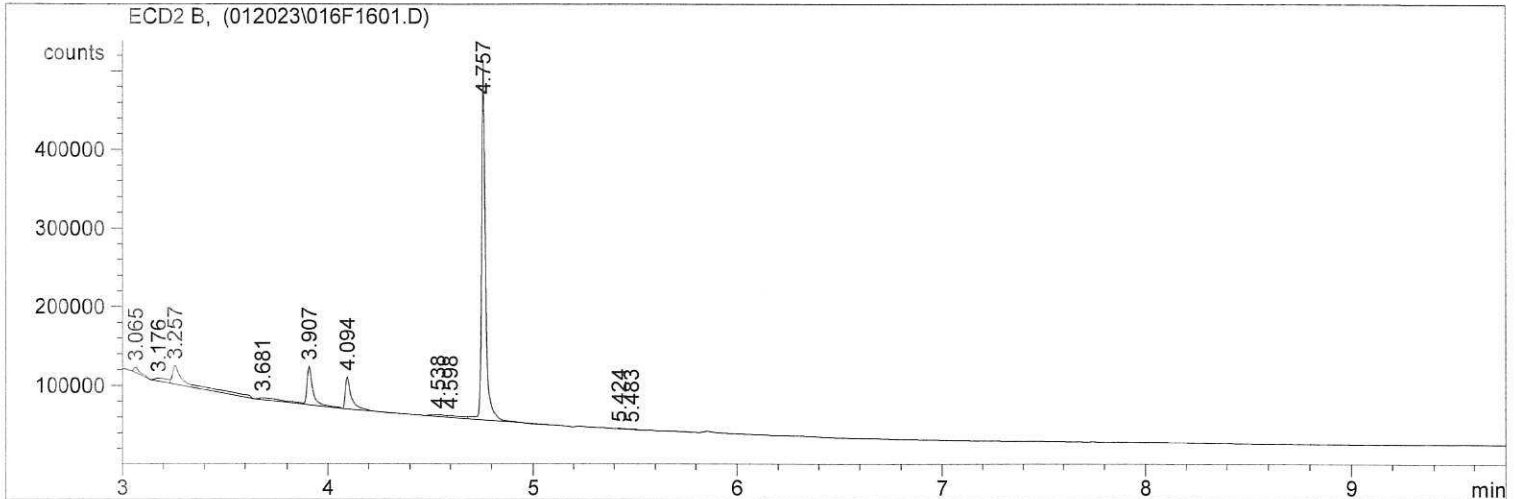
*** End of Report ***

=====
Injection Date : 1/20/2023 8:40:25 PM Seq. Line : 15
Sample Name : 23A0180 12 Location : Vial 15
Acq. Operator : CRR Inj : 1
 Inj Volume : 1 µl
Sequence File : C:\HPCHEM\1\SEQUENCE\012023.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD
=====



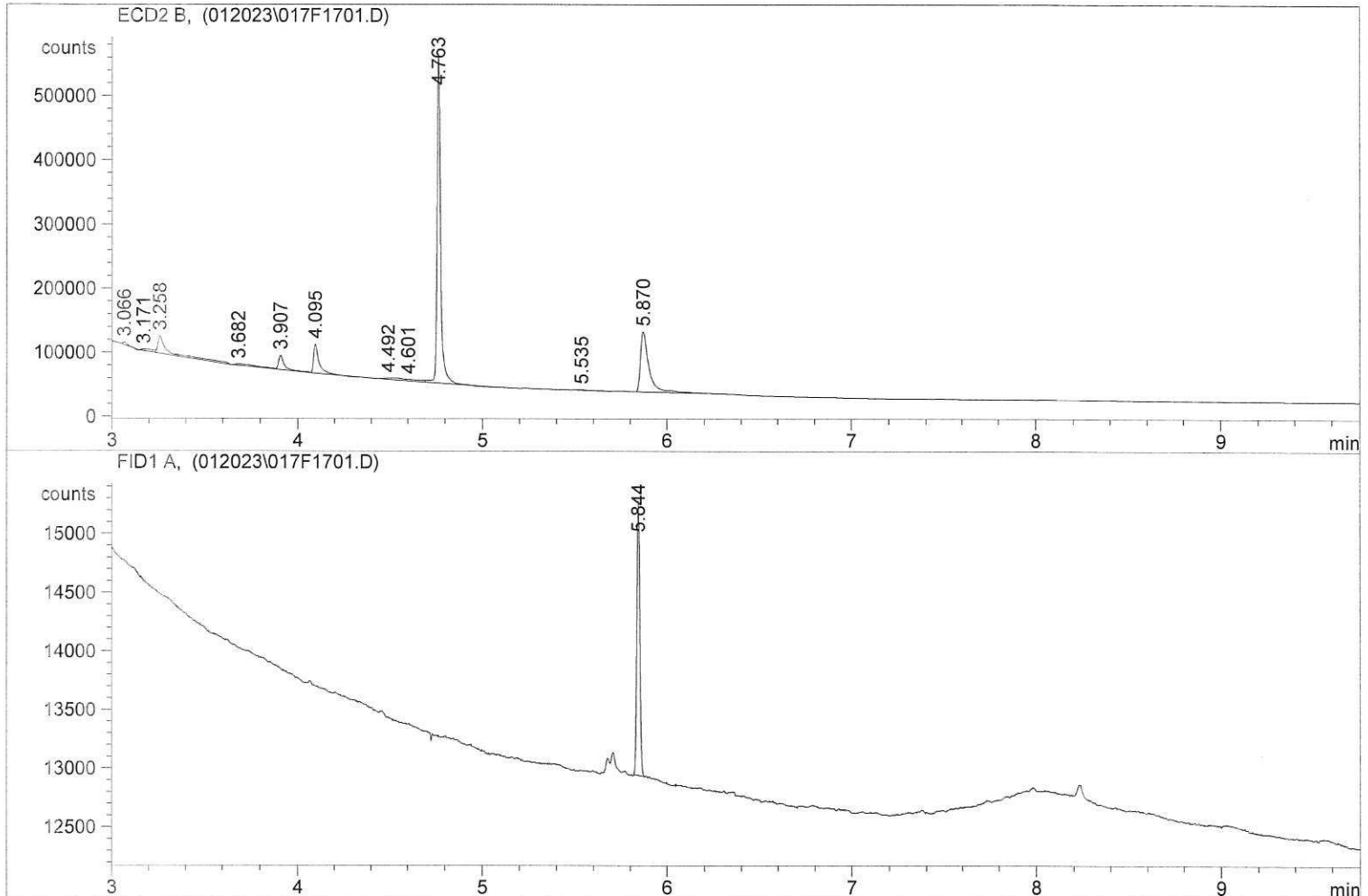
*** End of Report ***

=====
Injection Date : 1/20/2023 8:54:24 PM Seq. Line : 16
Sample Name : 23A0180 13 Location : Vial 16
Acq. Operator : CRR Inj : 1
 Inj Volume : 1 µl
Sequence File : C:\HPCHEM\1\SEQUENCE\012023.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD
=====



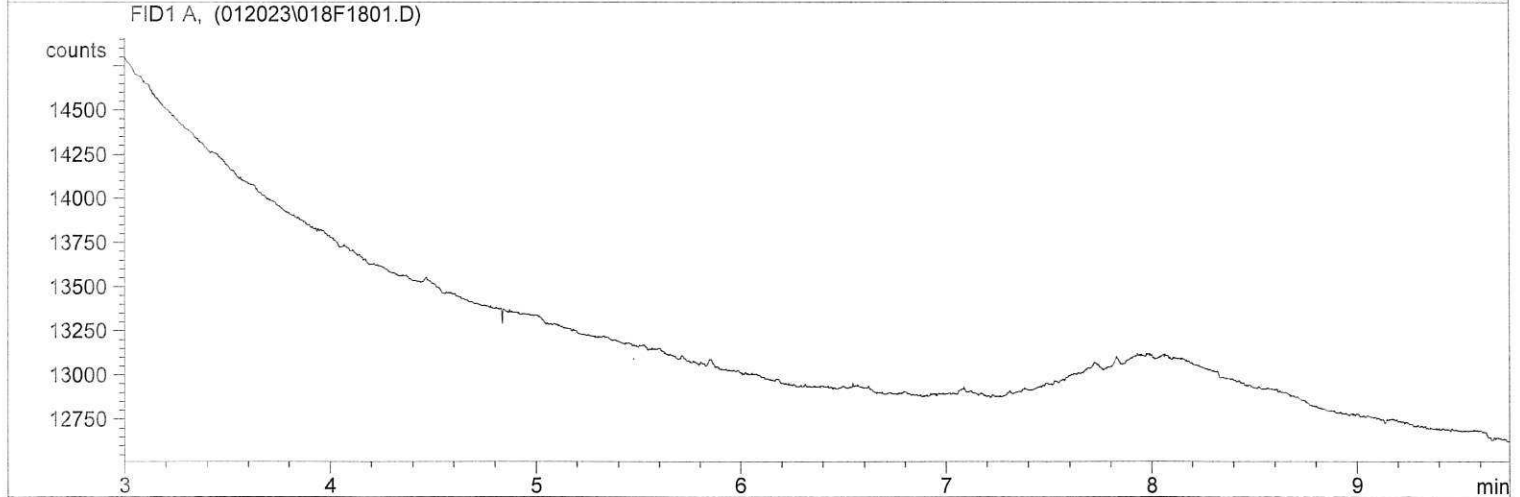
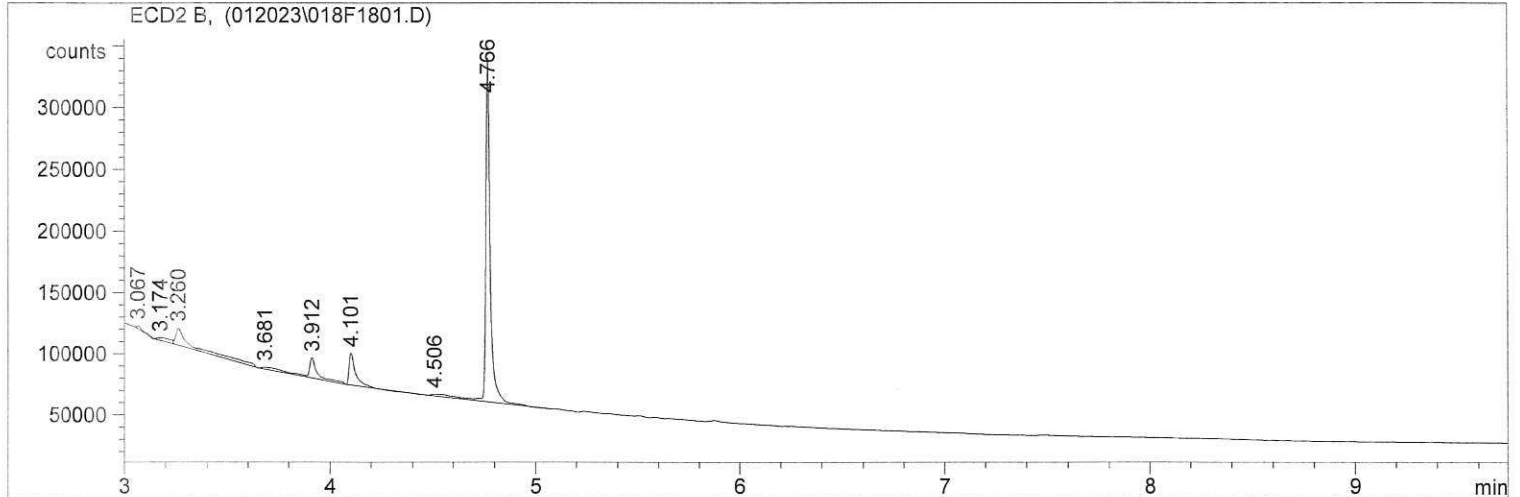
*** End of Report ***

=====
Injection Date : 1/20/2023 9:08:52 PM Seq. Line : 17
Sample Name : 23A0180 14 Location : Vial 17
Acq. Operator : CRR Inj : 1
 Inj Volume : 1 µl
Sequence File : C:\HPCHEM\1\SEQUENCE\012023.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD
=====



*** End of Report ***

=====
Injection Date : 1/20/2023 9:22:45 PM Seq. Line : 18
Sample Name : 23A0180 15 Location : Vial 18
Acq. Operator : CRR Inj : 1
 Inj Volume : 1 µl
Sequence File : C:\HPCHEM\1\SEQUENCE\012023.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD
=====



*** End of Report ***



CLEANUP BATCH SUMMARY

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Cleanup Batch: CLB0030

Cleanup Type: Silica Gel

Cleanup Method: EPA 3630C Silica Gel Cleanup - uL

Analysis: EPA 8082A

| SAMPLE NAME | LAB SAMPLE ID | LAB FILE ID | DATE PREPARED | OBSERVATIONS |
|------------------|---------------|----------------|---------------|--------------|
| LDW23-SC1139 | 23A0180-06 | 02072304ECD7.D | 02/03/2023 | |
| LDW23-SC1061 | 23A0180-08 | 02062333ECD7.D | 02/03/2023 | |
| Blank | BLA0559-BLK1 | 02062324ECD7.D | 02/03/2023 | |
| LCS Dup | BLA0559-BSD1 | 02062326ECD7.D | 02/03/2023 | |
| Matrix Spike | BLA0559-MS1 | 02062342ECD7.D | 02/03/2023 | |
| Matrix Spike Dup | BLA0559-MSD1 | 02062343ECD7.D | 02/03/2023 | |
| Reference | BLA0559-SRM1 | 02062327ECD7.D | 02/03/2023 | |
| LDW23-SC1164-FD | 23A0180-02 | 02062329ECD7.D | 02/03/2023 | |
| LDW23-SC1164 | 23A0180-01 | 02062328ECD7.D | 02/03/2023 | |
| LCS | BLA0559-BS1 | 02062325ECD7.D | 02/03/2023 | |
| LDW23-SC1151 | 23A0180-04 | 02042342ECD7.D | 02/03/2023 | |
| LDW23-SC1145 | 23A0180-05 | 02042343ECD7.D | 02/03/2023 | |
| LDW23-SC1117 | 23A0180-09 | 02042349ECD7.D | 02/03/2023 | |
| LDW23-SC1103 | 23A0180-12 | 02062337ECD7.D | 02/03/2023 | |
| LDW23-SC1066 | 23A0180-07 | 02062321ECD7.D | 02/03/2023 | |
| LDW23-SC1101 | 23A0180-14 | 02062341ECD7.D | 02/03/2023 | |
| LDW23-SC1100 | 23A0180-13 | 02042353ECD7.D | 02/03/2023 | |
| LDW23-SC1096 | 23A0180-15 | 02062344ECD7.D | 02/03/2023 | |
| LDW23-SC1094 | 23A0180-11 | 02062336ECD7.D | 02/03/2023 | |
| LDW23-SC1093 | 23A0180-10 | 02062335ECD7.D | 02/03/2023 | |
| LDW23-SC1158 | 23A0180-03 | 02062330ECD7.D | 02/03/2023 | |



CLEANUP BENCH SHEET

CLB0030

Matrix: Solid

Cleanup using: Organics - EPA 3630C Silica Gel Cleanup - uL

Printed: 4/12/2023 10:10:08AM

| Lab Number | Sample Container | Sample Name | Extract Container | Initial (uL) | Final (uL) | Analysis | Clean Up Date | Cleaned By | Cleanup Comments |
|--------------|------------------|------------------|-------------------|--------------|------------|-------------------|---------------|------------|------------------|
| 23A0180-01 | A | LDW23-SC1164 | A 03 | 2.5 | 2.5 | 8082A PCB Solid 4 | 2/3/2023 | TWC | |
| 23A0180-02 | A | LDW23-SC1164-FD | A 03 | 2.5 | 2.5 | 8082A PCB Solid 4 | 2/3/2023 | TWC | |
| 23A0180-03 | A | LDW23-SC1158 | A 03 | 2.5 | 2.5 | 8082A PCB Solid 4 | 2/3/2023 | TWC | |
| 23A0180-04 | A | LDW23-SC1151 | A 03 | 2.5 | 2.5 | 8082A PCB Solid 4 | 2/3/2023 | TWC | |
| 23A0180-05 | A | LDW23-SC1145 | A 01 | 2.5 | 2.5 | 8082A PCB Solid 4 | 2/3/2023 | TWC | |
| 23A0180-06 | A | LDW23-SC1139 | A 01 | 2.5 | 2.5 | 8082A PCB Solid 4 | 2/3/2023 | TWC | |
| 23A0180-07 | A | LDW23-SC1066 | A 01 | 2.5 | 2.5 | 8082A PCB Solid 4 | 2/3/2023 | TWC | |
| 23A0180-08 | A | LDW23-SC1061 | A 01 | 2.5 | 2.5 | 8082A PCB Solid 4 | 2/3/2023 | TWC | |
| 23A0180-09 | A | LDW23-SC1117 | A 01 | 2.5 | 2.5 | 8082A PCB Solid 4 | 2/3/2023 | TWC | |
| 23A0180-10 | A | LDW23-SC1093 | A 01 | 2.5 | 2.5 | 8082A PCB Solid 4 | 2/3/2023 | TWC | |
| 23A0180-11 | A | LDW23-SC1094 | A 01 | 2.5 | 2.5 | 8082A PCB Solid 4 | 2/3/2023 | TWC | |
| 23A0180-12 | A | LDW23-SC1103 | A 01 | 2.5 | 2.5 | 8082A PCB Solid 4 | 2/3/2023 | TWC | |
| 23A0180-13 | A | LDW23-SC1100 | A 01 | 2.5 | 2.5 | 8082A PCB Solid 4 | 2/3/2023 | TWC | |
| 23A0180-14 | A | LDW23-SC1101 | A 01 | 2.5 | 2.5 | 8082A PCB Solid 4 | 2/3/2023 | TWC | |
| 23A0180-15 | A | LDW23-SC1096 | A 01 | 2.5 | 2.5 | 8082A PCB Solid 4 | 2/3/2023 | TWC | |
| BLA0559-BLK1 | - | Blank | - | 2.5 | 2.5 | - | 2/3/2023 | TWC | |
| BLA0559-BS1 | - | LCS | - | 2.5 | 2.5 | - | 2/3/2023 | TWC | |
| BLA0559-BSD1 | - | LCS Dup | - | 2.5 | 2.5 | - | 2/3/2023 | TWC | |
| BLA0559-MS1 | - | Matrix Spike | - | 2.5 | 2.5 | - | 2/3/2023 | TWC | |
| BLA0559-MSD1 | - | Matrix Spike Dup | - | 2.5 | 2.5 | - | 2/3/2023 | TWC | |
| BLA0559-SRM1 | - | Reference | - | 2.5 | 2.5 | - | 2/3/2023 | TWC | |



CLEANUP BATCH SUMMARY

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Cleanup Batch: CLB0031

Cleanup Type: Sulfur

Cleanup Method: EPA 3660B Sulfur Cleanup - uL

Analysis: EPA 8082A

| SAMPLE NAME | LAB SAMPLE ID | LAB FILE ID | DATE PREPARED | OBSERVATIONS |
|------------------|---------------|----------------|---------------|--------------|
| LDW23-SC1164-FD | 23A0180-02 | 02062329ECD7.D | 02/03/2023 | |
| LDW23-SC1094 | 23A0180-11 | 02062336ECD7.D | 02/03/2023 | |
| LDW23-SC1096 | 23A0180-15 | 02062344ECD7.D | 02/03/2023 | |
| LDW23-SC1100 | 23A0180-13 | 02042353ECD7.D | 02/03/2023 | |
| Blank | BLA0559-BLK1 | 02062324ECD7.D | 02/03/2023 | |
| LDW23-SC1093 | 23A0180-10 | 02062335ECD7.D | 02/03/2023 | |
| LDW23-SC1101 | 23A0180-14 | 02062341ECD7.D | 02/03/2023 | |
| LDW23-SC1145 | 23A0180-05 | 02042343ECD7.D | 02/03/2023 | |
| LDW23-SC1151 | 23A0180-04 | 02042342ECD7.D | 02/03/2023 | |
| LDW23-SC1139 | 23A0180-06 | 02072304ECD7.D | 02/03/2023 | |
| LDW23-SC1164 | 23A0180-01 | 02062328ECD7.D | 02/03/2023 | |
| LDW23-SC1066 | 23A0180-07 | 02062321ECD7.D | 02/03/2023 | |
| LDW23-SC1103 | 23A0180-12 | 02062337ECD7.D | 02/03/2023 | |
| LCS Dup | BLA0559-BSD1 | 02062326ECD7.D | 02/03/2023 | |
| Matrix Spike | BLA0559-MS1 | 02062342ECD7.D | 02/03/2023 | |
| Matrix Spike Dup | BLA0559-MSD1 | 02062343ECD7.D | 02/03/2023 | |
| Reference | BLA0559-SRM1 | 02062327ECD7.D | 02/03/2023 | |
| LCS | BLA0559-BS1 | 02062325ECD7.D | 02/03/2023 | |
| LDW23-SC1117 | 23A0180-09 | 02042349ECD7.D | 02/03/2023 | |
| LDW23-SC1061 | 23A0180-08 | 02062333ECD7.D | 02/03/2023 | |
| LDW23-SC1158 | 23A0180-03 | 02062330ECD7.D | 02/03/2023 | |



CLEANUP BENCH SHEET

CLB0031

Matrix: Solid

Cleanup using: Organics - EPA 3660B Sulfur Cleanup - uL

Printed: 4/12/2023 10:11:08AM

| Lab Number | Sample Container | Sample Name | Extract Container | Initial (uL) | Final (uL) | Analysis | Clean Up Date | Cleaned By | Cleanup Comments |
|--------------|------------------|------------------|-------------------|--------------|------------|-------------------|---------------|------------|------------------|
| 23A0180-01 | A | LDW23-SC1164 | A 03 | 2.5 | 2.5 | 8082A PCB Solid 4 | 2/3/2023 | TWC | |
| 23A0180-02 | A | LDW23-SC1164-FD | A 03 | 2.5 | 2.5 | 8082A PCB Solid 4 | 2/3/2023 | TWC | |
| 23A0180-03 | A | LDW23-SC1158 | A 03 | 2.5 | 2.5 | 8082A PCB Solid 4 | 2/3/2023 | TWC | |
| 23A0180-04 | A | LDW23-SC1151 | A 03 | 2.5 | 2.5 | 8082A PCB Solid 4 | 2/3/2023 | TWC | |
| 23A0180-05 | A | LDW23-SC1145 | A 01 | 2.5 | 2.5 | 8082A PCB Solid 4 | 2/3/2023 | TWC | |
| 23A0180-06 | A | LDW23-SC1139 | A 01 | 2.5 | 2.5 | 8082A PCB Solid 4 | 2/3/2023 | TWC | |
| 23A0180-07 | A | LDW23-SC1066 | A 01 | 2.5 | 2.5 | 8082A PCB Solid 4 | 2/3/2023 | TWC | |
| 23A0180-08 | A | LDW23-SC1061 | A 01 | 2.5 | 2.5 | 8082A PCB Solid 4 | 2/3/2023 | TWC | |
| 23A0180-09 | A | LDW23-SC1117 | A 01 | 2.5 | 2.5 | 8082A PCB Solid 4 | 2/3/2023 | TWC | |
| 23A0180-10 | A | LDW23-SC1093 | A 01 | 2.5 | 2.5 | 8082A PCB Solid 4 | 2/3/2023 | TWC | |
| 23A0180-11 | A | LDW23-SC1094 | A 01 | 2.5 | 2.5 | 8082A PCB Solid 4 | 2/3/2023 | TWC | |
| 23A0180-12 | A | LDW23-SC1103 | A 01 | 2.5 | 2.5 | 8082A PCB Solid 4 | 2/3/2023 | TWC | |
| 23A0180-13 | A | LDW23-SC1100 | A 01 | 2.5 | 2.5 | 8082A PCB Solid 4 | 2/3/2023 | TWC | |
| 23A0180-14 | A | LDW23-SC1101 | A 01 | 2.5 | 2.5 | 8082A PCB Solid 4 | 2/3/2023 | TWC | |
| 23A0180-15 | A | LDW23-SC1096 | A 01 | 2.5 | 2.5 | 8082A PCB Solid 4 | 2/3/2023 | TWC | |
| BLA0559-BLK1 | - | Blank | - | 2.5 | 2.5 | - | 2/3/2023 | TWC | |
| BLA0559-BS1 | - | LCS | - | 2.5 | 2.5 | - | 2/3/2023 | TWC | |
| BLA0559-BSD1 | - | LCS Dup | - | 2.5 | 2.5 | - | 2/3/2023 | TWC | |
| BLA0559-MS1 | - | Matrix Spike | - | 2.5 | 2.5 | - | 2/3/2023 | TWC | |
| BLA0559-MSD1 | - | Matrix Spike Dup | - | 2.5 | 2.5 | - | 2/3/2023 | TWC | |
| BLA0559-SRM1 | - | Reference | - | 2.5 | 2.5 | - | 2/3/2023 | TWC | |



CLEANUP BATCH SUMMARY

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Cleanup Batch: CLB0032

Cleanup Type: Sulfuric Acid

Cleanup Method: EPA 3665 Sulfuric Acid Cleanup - uL

Analysis: EPA 8082A

| SAMPLE NAME | LAB SAMPLE ID | LAB FILE ID | DATE PREPARED | OBSERVATIONS |
|------------------|---------------|----------------|---------------|--------------|
| LDW23-SC1103 | 23A0180-12 | 02062337ECD7.D | 02/03/2023 | |
| LDW23-SC1061 | 23A0180-08 | 02062333ECD7.D | 02/03/2023 | |
| LDW23-SC1066 | 23A0180-07 | 02062321ECD7.D | 02/03/2023 | |
| LDW23-SC1094 | 23A0180-11 | 02062336ECD7.D | 02/03/2023 | |
| LDW23-SC1100 | 23A0180-13 | 02042353ECD7.D | 02/03/2023 | |
| LDW23-SC1164-FD | 23A0180-02 | 02062329ECD7.D | 02/03/2023 | |
| LDW23-SC1158 | 23A0180-03 | 02062330ECD7.D | 02/03/2023 | |
| LDW23-SC1093 | 23A0180-10 | 02062335ECD7.D | 02/03/2023 | |
| LDW23-SC1145 | 23A0180-05 | 02042343ECD7.D | 02/03/2023 | |
| LDW23-SC1151 | 23A0180-04 | 02042342ECD7.D | 02/03/2023 | |
| LDW23-SC1117 | 23A0180-09 | 02042349ECD7.D | 02/03/2023 | |
| Matrix Spike | BLA0559-MS1 | 02062342ECD7.D | 02/03/2023 | |
| LDW23-SC1164 | 23A0180-01 | 02062328ECD7.D | 02/03/2023 | |
| LDW23-SC1101 | 23A0180-14 | 02062341ECD7.D | 02/03/2023 | |
| Reference | BLA0559-SRM1 | 02062327ECD7.D | 02/03/2023 | |
| Matrix Spike Dup | BLA0559-MSD1 | 02062343ECD7.D | 02/03/2023 | |
| LDW23-SC1096 | 23A0180-15 | 02062344ECD7.D | 02/03/2023 | |
| LCS Dup | BLA0559-BSD1 | 02062326ECD7.D | 02/03/2023 | |
| LCS | BLA0559-BS1 | 02062325ECD7.D | 02/03/2023 | |
| Blank | BLA0559-BLK1 | 02062324ECD7.D | 02/03/2023 | |
| LDW23-SC1139 | 23A0180-06 | 02072304ECD7.D | 02/03/2023 | |



CLEANUP BENCH SHEET

CLB0032

Matrix: Solid Cleanup using: Organics - EPA 3665 Sulfuric Acid Cleanup - uL Printed: 4/12/2023 10:11:39AM

| Lab Number | Sample Container | Sample Name | Extract Container | Initial (uL) | Final (uL) | Analysis | Clean Up Date | Cleaned By | Cleanup Comments |
|--------------|------------------|------------------|-------------------|--------------|------------|-------------------|---------------|------------|------------------|
| 23A0180-01 | A | LDW23-SC1164 | A 03 | 2.5 | 2.5 | 8082A PCB Solid 4 | 2/3/2023 | TWC | |
| 23A0180-02 | A | LDW23-SC1164-FD | A 03 | 2.5 | 2.5 | 8082A PCB Solid 4 | 2/3/2023 | TWC | |
| 23A0180-03 | A | LDW23-SC1158 | A 03 | 2.5 | 2.5 | 8082A PCB Solid 4 | 2/3/2023 | TWC | |
| 23A0180-04 | A | LDW23-SC1151 | A 03 | 2.5 | 2.5 | 8082A PCB Solid 4 | 2/3/2023 | TWC | |
| 23A0180-05 | A | LDW23-SC1145 | A 01 | 2.5 | 2.5 | 8082A PCB Solid 4 | 2/3/2023 | TWC | |
| 23A0180-06 | A | LDW23-SC1139 | A 01 | 2.5 | 2.5 | 8082A PCB Solid 4 | 2/3/2023 | TWC | |
| 23A0180-07 | A | LDW23-SC1066 | A 01 | 2.5 | 2.5 | 8082A PCB Solid 4 | 2/3/2023 | TWC | |
| 23A0180-08 | A | LDW23-SC1061 | A 01 | 2.5 | 2.5 | 8082A PCB Solid 4 | 2/3/2023 | TWC | |
| 23A0180-09 | A | LDW23-SC1117 | A 01 | 2.5 | 2.5 | 8082A PCB Solid 4 | 2/3/2023 | TWC | |
| 23A0180-10 | A | LDW23-SC1093 | A 01 | 2.5 | 2.5 | 8082A PCB Solid 4 | 2/3/2023 | TWC | |
| 23A0180-11 | A | LDW23-SC1094 | A 01 | 2.5 | 2.5 | 8082A PCB Solid 4 | 2/3/2023 | TWC | |
| 23A0180-12 | A | LDW23-SC1103 | A 01 | 2.5 | 2.5 | 8082A PCB Solid 4 | 2/3/2023 | TWC | |
| 23A0180-13 | A | LDW23-SC1100 | A 01 | 2.5 | 2.5 | 8082A PCB Solid 4 | 2/3/2023 | TWC | |
| 23A0180-14 | A | LDW23-SC1101 | A 01 | 2.5 | 2.5 | 8082A PCB Solid 4 | 2/3/2023 | TWC | |
| 23A0180-15 | A | LDW23-SC1096 | A 01 | 2.5 | 2.5 | 8082A PCB Solid 4 | 2/3/2023 | TWC | |
| BLA0559-BLK1 | - | Blank | - | 2.5 | 2.5 | - | 2/3/2023 | TWC | |
| BLA0559-BS1 | - | LCS | - | 2.5 | 2.5 | - | 2/3/2023 | TWC | |
| BLA0559-BSD1 | - | LCS Dup | - | 2.5 | 2.5 | - | 2/3/2023 | TWC | |
| BLA0559-MS1 | - | Matrix Spike | - | 2.5 | 2.5 | - | 2/3/2023 | TWC | |
| BLA0559-MSD1 | - | Matrix Spike Dup | - | 2.5 | 2.5 | - | 2/3/2023 | TWC | |
| BLA0559-SRM1 | - | Reference | - | 2.5 | 2.5 | - | 2/3/2023 | TWC | |



Form I
METHOD BLANK DATA SHEET
EPA 8082A

| |
|-------|
| Blank |
|-------|

| | | | |
|-------------|----------------------------------|----------------|--|
| Laboratory: | <u>Analytical Resources, LLC</u> | SDG: | <u>23A0180</u> |
| Client: | <u>Anchor QEA, LLC</u> | Project: | <u>AOC5 MR Phase 1</u> |
| Matrix: | <u>Solid</u> | Laboratory ID: | <u>BLA0559-BLK1</u> |
| Sampled: | <u>N/A</u> | Prepared: | <u>01/26/23 14:06</u> |
| Solids: | | Preparation: | <u>EPA 3546 (Microwave)</u> |
| Batch: | <u>BLA0559</u> | Sequence: | <u>SLB0086</u> |
| Instrument: | <u>ECD7</u> | Column: | <u>ZB5</u> |
| | | File ID: | <u>02062324ECD7.D</u> |
| | | Analyzed: | <u>02/06/23 17:37</u> |
| | | Initial/Final: | <u>12.5 g / 2.5 mL</u> |
| | | Calibration: | <u>GA00061</u> |
| | | Cleanups: | <u>Silica Gel, Sulfur, Sulfuric Acid</u> |

| CAS NO. | COMPOUND | DILUTION | CONC: (ug/kg wet) | Q | DL | RL |
|------------|--------------|----------|----------------------|---|-----|-----|
| 12674-11-2 | Aroclor 1016 | 1 | 4.0 | U | 1.6 | 4.0 |
| 11104-28-2 | Aroclor 1221 | 1 | 4.0 | U | 1.6 | 4.0 |
| 11141-16-5 | Aroclor 1232 | 1 | 4.0 | U | 1.6 | 4.0 |
| 53469-21-9 | Aroclor 1242 | 1 | 4.0 | U | 1.6 | 4.0 |
| 12672-29-6 | Aroclor 1248 | 1 | 4.0 | U | 1.6 | 4.0 |
| 11097-69-1 | Aroclor 1254 | 1 | 4.0 | U | 1.6 | 4.0 |
| 11096-82-5 | Aroclor 1260 | 1 | 4.0 | U | 0.6 | 4.0 |

| SURROGATES | ADDED: (ug/kg wet) | FOUND: (ug/kg wet) | % REC | QC LIMITS | Q |
|----------------------------|-----------------------|-----------------------|-------|-----------|---|
| Decachlorobiphenyl | 8.0000 | 6.17 | 77.1 | 40 - 126 | |
| Tetrachlorometaxylene | 8.0000 | 6.20 | 77.5 | 44 - 120 | |
| Decachlorobiphenyl [2C] | 8.0000 | 6.31 | 78.8 | 40 - 126 | |
| Tetrachlorometaxylene [2C] | 8.0000 | 6.15 | 76.9 | 44 - 120 | |

[2C] indicates second-column analyte, present if quantification on any batch samples used second column data.

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230206.b/02062324ECD7.D
Data file 2: /230206.b/230206.b/02062324ECD7.D
Method: \\target\share\chem4\ecd7.i\230206.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: BLA0559-BLK1
Client ID:
Injection Date: 06-FEB-2023 17:37
Report Date: 02/07/2023 10:35
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

| RT | ZB5 Col Shift | ZB5 Col Response | RT | ZB35 Col Shift | ZB35 Col Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag |
|--------|---------------|------------------|--------|----------------|-------------------|------------|-------------|-----|----------------------|
| 5.807 | -0.002 | 171645 | 5.684 | 0.000 | 142395 | 31.0 | 30.7 | 0.9 | Tetrachloro-m-xylene |
| 13.888 | -0.003 | 195972 | 14.117 | 0.000 | 226848 | 30.9 | 31.5 | 2.2 | Decachlorobiphenyl |

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | |
|--------------------|----------------|-------------|-------|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 503318 | 391588 | -22.2 |
| Hexabromobiphenyl | 647433 | 593929 | -8.3 |

| Standard Cpnd | Column 2 | | |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 336911 | 342622 | 1.7 |
| Hexabromobiphenyl | 382032 | 453315 | 18.7 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-JAN-2023
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | ZB35 Col | | | | | |
|-------------------------|-------|-----|-------|------|----------|-------------------------|-----|-------|------|--------|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount |
| Aroclor-1016 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 |
| Aroclor-1016 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 |
| Aroclor-1016 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 |
| Aroclor-1016 | 4 | --- | | | 0.0 | 4 | --- | | | 0.0 |
| CollAve: <3 Quant Peaks | | | | | | Col2Ave: <3 Quant Peaks | | | | |
| Aroclor-1221 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 |
| Aroclor-1221 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 |
| Aroclor-1221 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 |
| CollAve: <3 Quant Peaks | | | | | | Col2Ave: <3 Quant Peaks | | | | |
| Aroclor-1232 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 |
| Aroclor-1232 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 |
| Aroclor-1232 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 |
| Aroclor-1232 | 4 | --- | | | 0.0 | 4 | --- | | | 0.0 |
| CollAve: <3 Quant Peaks | | | | | | Col2Ave: <3 Quant Peaks | | | | |
| Aroclor-1242 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 |
| Aroclor-1242 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 |
| Aroclor-1242 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 |
| Aroclor-1242 | 4 | --- | | | 0.0 | 4 | --- | | | 0.0 |
| CollAve: <3 Quant Peaks | | | | | | Col2Ave: <3 Quant Peaks | | | | |
| Aroclor-1248 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 |
| Aroclor-1248 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 |
| Aroclor-1248 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 |
| Aroclor-1248 | 4 | --- | | | 0.0 | 4 | --- | | | 0.0 |
| CollAve: <3 Quant Peaks | | | | | | Col2Ave: <3 Quant Peaks | | | | |
| Aroclor-1254 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 |
| Aroclor-1254 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 |
| Aroclor-1254 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 |
| Aroclor-1254 | 4 | --- | | | 0.0 | 4 | --- | | | 0.0 |
| Aroclor-1254 | 5 | --- | | | 0.0 | 5 | --- | | | 0.0 |
| CollAve: <3 Quant Peaks | | | | | | Col2Ave: <3 Quant Peaks | | | | |
| Aroclor-1260 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 |
| Aroclor-1260 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 |
| Aroclor-1260 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 |
| Aroclor-1260 | 4 | --- | | | 0.0 | 4 | --- | | | 0.0 |
| Aroclor-1260 | 5 | --- | | | 0.0 | NS | --- | | | ---- |
| CollAve: <3 Quant Peaks | | | | | | Col2Ave: <3 Quant Peaks | | | | |
| Aroclor-1262 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 |
| Aroclor-1262 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 |
| Aroclor-1262 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 |
| Aroclor-1262 | 4 | --- | | | 0.0 | 4 | --- | | | 0.0 |
| CollAve: <3 Quant Peaks | | | | | | Col2Ave: <3 Quant Peaks | | | | |
| Aroclor-1268 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 |
| Aroclor-1268 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 |
| Aroclor-1268 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 |
| Aroclor-1268 | 4 | --- | | | 0.0 | 4 | --- | | | 0.0 |
| CollAve: <3 Quant Peaks | | | | | | Col2Ave: <3 Quant Peaks | | | | |

Total PCB Area Coll (5.909 - 13.792) = 98418

Coll Total PCB = 0.0 ppm*

Total PCB Area Col2 (5.784 - 14.017) = 56209 Col2 Total PCB = 0.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230206.b/02062325ECD7.D
Data file 2: /230206.b/230206.b/02062325ECD7.D
Method: \\target\share\chem4\ecd7.i\230206.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: BLA0559-BS1
Client ID:
Injection Date: 06-FEB-2023 17:58
Report Date: 02/07/2023 10:36
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

| ZB5 Col | | ZB35 Col | | | ZB5 | ZB35 | RPD | Compound/Flag | |
|---------|--------|----------|--------|--------|----------|--------|------|---------------|----------------------|
| RT | Shift | Response | RT | Shift | Response | on col | | | on col |
| 5.807 | -0.002 | 189247 | 5.684 | -0.000 | 153251 | 33.0 | 32.0 | 3.1 | Tetrachloro-m-xylene |
| 13.886 | -0.006 | 220633 | 14.117 | 0.000 | 258378 | 32.3 | 33.6 | 4.0 | Decachlorobiphenyl |

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | |
|--------------------|----------------|-------------|-------|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 503318 | 405363 | -19.5 |
| Hexabromobiphenyl | 647433 | 638593 | -1.4 |

| Standard Cpnd | Column 2 | | |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 336911 | 354090 | 5.1 |
| Hexabromobiphenyl | 382032 | 484130 | 26.7 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-JAN-2023
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | ZB35 Col | | | | | |
|--------------------------|-------|--------|--------|--------|----------|--------------------------|--------|--------|--------|-----------------|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount |
| Aroclor-1016 | 1 | 7.268 | -0.002 | 64581 | 428.7 | 1 | 7.252 | -0.001 | 82485 | 429.5 |
| Aroclor-1016 | 2 | 7.647 | -0.004 | 222318 | 445.4 | 2 | 7.846 | -0.002 | 192373 | 457.1 |
| Aroclor-1016 | 3 | 7.784 | -0.004 | 89326 | 389.0 | 3 | 8.045 | -0.003 | 77864 | 453.4 |
| Aroclor-1016 | 4 | 8.400 | -0.004 | 67101 | 454.2 | 4 | 8.302 | -0.001 | 56794 | 421.8 |
| Total CollAve (4 peaks): | | | | 429.3 | | Total Col2Ave (4 peaks): | | | | 440.4 RPD = 3 |
| Corrected Ave (3 peaks): | | | | 421.1 | | Corrected Ave (3 peaks): | | | | 434.9 RPD = 3 |
| | | | | | | | | | | |
| Aroclor-1221 | 1 | 4.735 | 0.002 | 892 | 29.8 | 1 | 4.957 | -0.002 | 382 | 14.7 |
| Aroclor-1221 | 2 | 6.130 | -0.004 | 8405 | 137.2 | 2 | 6.296 | -0.002 | 8238 | 144.8 |
| Aroclor-1221 | 3 | 6.381 | -0.003 | 41609 | 292.5 | 3 | 6.619 | -0.004 | 32650 | 340.1 |
| Total CollAve (3 peaks): | | | | 153.2 | | Total Col2Ave (3 peaks): | | | | 166.5 RPD = 8 |
| Corrected Ave: < 3 Peaks | | | | | | Corrected Ave: < 3 Peaks | | | | |
| | | | | | | | | | | |
| Aroclor-1232 | 1 | 4.735 | 0.002 | 892 | 47.7 | 1 | 4.957 | -0.003 | 382 | 24.3 |
| Aroclor-1232 | 2 | 6.130 | -0.003 | 8405 | 199.4 | 2 | 7.252 | -0.004 | 82485 | 936.2 |
| Aroclor-1232 | 3 | 7.647 | -0.011 | 222318 | 1054.6 | 3 | 7.846 | -0.009 | 192373 | 1072.0 |
| Aroclor-1232 | 4 | 8.571 | -0.013 | 82072 | 909.5 | 4 | 8.708 | -0.005 | 58899 | 1181.3 |
| Total CollAve (4 peaks): | | | | 552.8 | | Total Col2Ave (4 peaks): | | | | 803.4 RPD = 37 |
| Corrected Ave (3 peaks): | | | | 385.5 | | Corrected Ave (3 peaks): | | | | 677.5 RPD = 55* |
| | | | | | | | | | | |
| Aroclor-1242 | 1 | 7.268 | -0.003 | 64581 | 520.3 | 1 | 7.252 | -0.002 | 82485 | 532.6 |
| Aroclor-1242 | 2 | 7.647 | -0.008 | 222318 | 547.3 | 2 | 7.846 | -0.004 | 192373 | 559.3 |
| Aroclor-1242 | 3 | 8.400 | -0.007 | 67101 | 556.0 | 3 | 9.147 | -0.007 | 9949 | 92.4 |
| Aroclor-1242 | 4 | 8.571 | -0.010 | 82072 | 450.2 | 4 | 9.570 | -0.008 | 5769 | 40.4 |
| Total CollAve (4 peaks): | | | | 518.4 | | Total Col2Ave (4 peaks): | | | | 306.2 RPD = 51* |
| Corrected Ave (3 peaks): | | | | 505.9 | | Corrected Ave (3 peaks): | | | | 221.8 RPD = 78* |
| | | | | | | | | | | |
| Aroclor-1248 | 1 | 8.400 | -0.006 | 67101 | 330.9 | 1 | 8.302 | -0.000 | 56794 | 354.8 |
| Aroclor-1248 | 2 | 8.571 | -0.009 | 82072 | 317.3 | 2 | 8.708 | -0.001 | 58899 | 341.9 |
| Aroclor-1248 | 3 | 8.990 | -0.009 | 62922 | 127.2 | 3 | 9.147 | -0.005 | 9949 | 47.3 |
| Aroclor-1248 | 4 | 9.293 | -0.000 | 62243 | 254.1 | 4 | 9.570 | -0.005 | 5769 | 22.2 |
| Total CollAve (4 peaks): | | | | 257.4 | | Total Col2Ave (4 peaks): | | | | 191.5 RPD = 29 |
| Corrected Ave (3 peaks): | | | | 232.9 | | Corrected Ave (3 peaks): | | | | 137.1 RPD = 52* |
| | | | | | | | | | | |
| Aroclor-1254 | 1 | 9.293 | -0.005 | 62243 | 150.7 | 1 | 9.442 | -0.002 | 49042 | 190.9 |
| Aroclor-1254 | 2 | --- | | | 0.0 | 2 | 9.962 | -0.001 | 11039 | 53.2 |
| Aroclor-1254 | 3 | 9.660 | -0.009 | 11217 | 42.4 | 3 | 10.140 | 0.025 | 110403 | 243.8 |
| Aroclor-1254 | 4 | 9.796 | -0.012 | 37094 | 71.5 | 4 | 10.365 | 0.002 | 144217 | 318.4 |
| Aroclor-1254 | 5 | 10.115 | -0.062 | 173105 | 513.2 | 5 | 10.560 | -0.002 | 188616 | 747.7 |
| Total CollAve (4 peaks): | | | | 194.4 | | Total Col2Ave (5 peaks): | | | | 310.8 RPD = 46* |
| Corrected Ave (3 peaks): | | | | 88.2 | | Corrected Ave (4 peaks): | | | | 201.6 RPD = 78* |
| | | | | | | | | | | |
| Aroclor-1260 | 1 | 11.039 | -0.005 | 136293 | 380.4 | 1 | 11.648 | -0.000 | 142035 | 406.7 |
| Aroclor-1260 | 2 | 11.355 | -0.006 | 142201 | 386.1 | 2 | 11.910 | -0.002 | 342776 | 387.9 |
| Aroclor-1260 | 3 | 11.727 | -0.007 | 352492 | 363.5 | 3 | 12.431 | -0.000 | 96792 | 439.5 |
| Aroclor-1260 | 4 | 12.130 | -0.010 | 192662 | 384.6 | 4 | 12.494 | -0.002 | 234082 | 409.3 |
| Aroclor-1260 | 5 | 12.238 | -0.005 | 77191 | 353.5 | NS | --- | | | ---- |
| Total CollAve (5 peaks): | | | | 373.6 | | Total Col2Ave (4 peaks): | | | | 410.9 RPD = 9 |
| Corrected Ave (4 peaks): | | | | 370.5 | | Corrected Ave (3 peaks): | | | | 401.3 RPD = 8 |
| | | | | | | | | | | |
| Aroclor-1262 | 1 | 10.817 | -0.015 | 272230 | 1054.1 | 1 | 11.194 | -0.006 | 132023 | 278.6 |
| Aroclor-1262 | 2 | 12.238 | -0.007 | 77191 | 189.4 | 2 | 11.648 | -0.005 | 142035 | 352.5 |
| Aroclor-1262 | 3 | 12.314 | -0.007 | 92479 | 209.0 | 3 | 12.431 | -0.003 | 96792 | 225.6 |
| Aroclor-1262 | 4 | 12.980 | -0.009 | 85164 | 211.2 | 4 | 12.494 | -0.009 | 234082 | 340.7 |
| Total CollAve (4 peaks): | | | | 415.9 | | Total Col2Ave (4 peaks): | | | | 299.3 RPD = 33 |
| Corrected Ave (3 peaks): | | | | 203.2 | | Corrected Ave (3 peaks): | | | | 281.6 RPD = 32 |
| | | | | | | | | | | |
| Aroclor-1268 | 1 | 12.238 | -0.006 | 77191 | 73.2 | 1 | 12.431 | -0.002 | 96792 | 85.6 |
| Aroclor-1268 | 2 | 12.314 | -0.004 | 92479 | 87.9 | 2 | 12.494 | -0.007 | 234082 | 194.6 |
| Aroclor-1268 | 3 | 12.717 | 0.017 | 41363 | 47.5 | 3 | 12.889 | -0.004 | 5923 | 5.9 |
| Aroclor-1268 | 4 | 13.482 | -0.006 | 26574 | 10.3 | 4 | 13.704 | -0.005 | 27269 | 8.8 |
| Total CollAve (4 peaks): | | | | 54.7 | | Total Col2Ave (4 peaks): | | | | 73.7 RPD = 30 |

Corrected Ave (3 peaks): 43.6 Corrected Ave (3 peaks): 33.4 RPD = 26

Total PCB Area Col1 (5.909 - 13.792) = 3855874 Col1 Total PCB = 0.8 ppm*

Total PCB Area Col2 (5.784 - 14.017) = 3403086 Col2 Total PCB = 0.9 ppm*

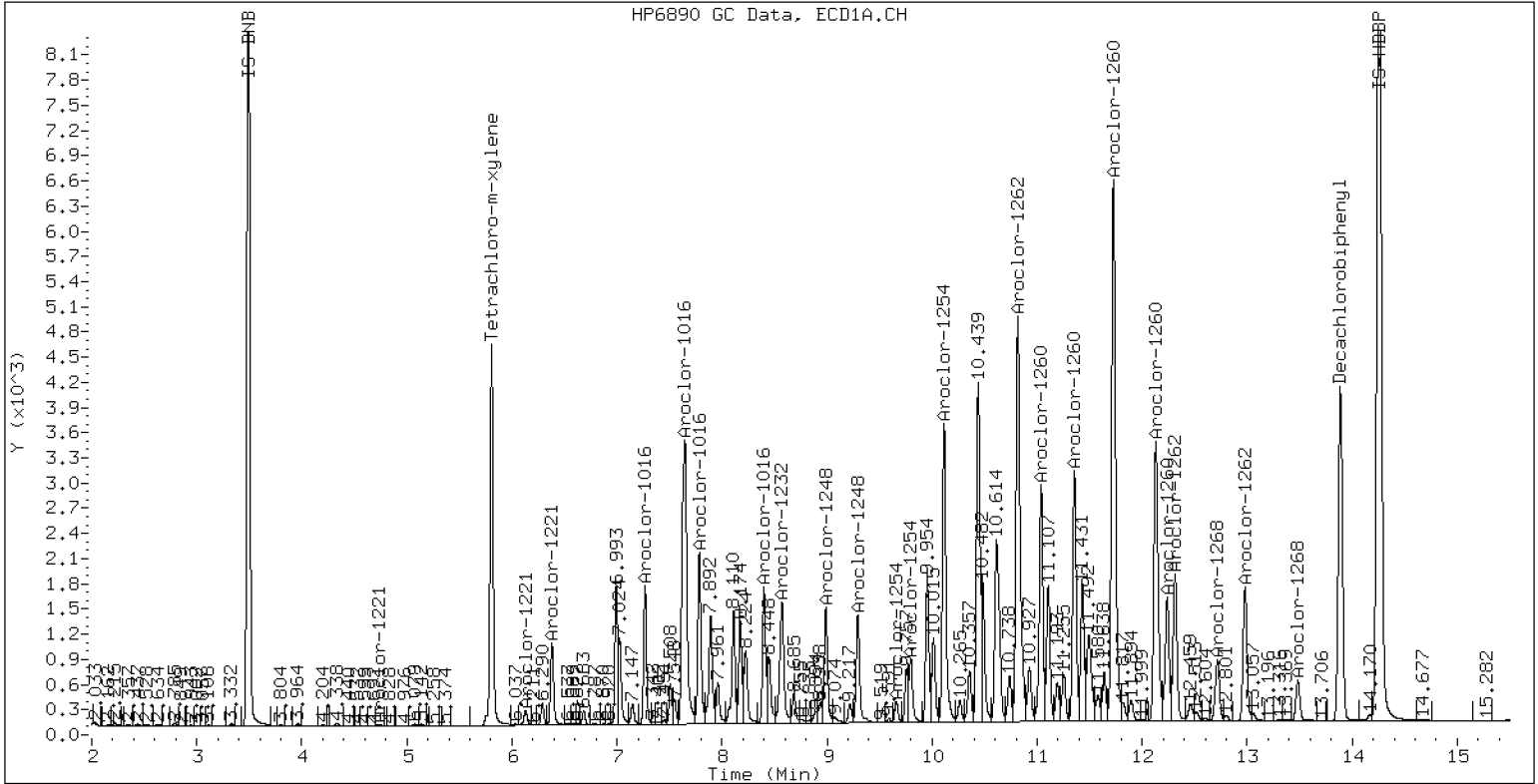
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 BLA0559-BS1

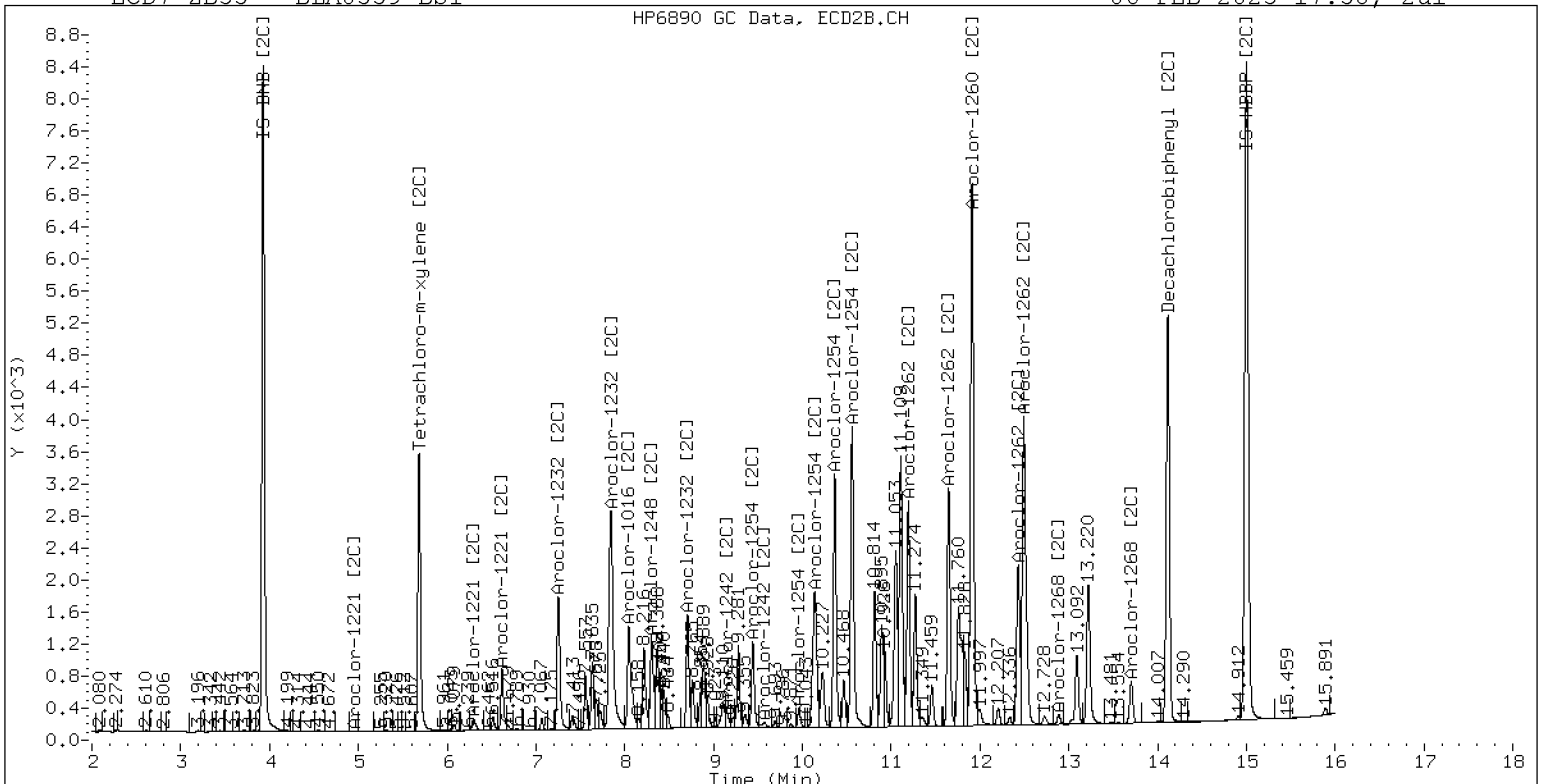
06-FEB-2023 17:58, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 BLA0559-BS1

06-FEB-2023 17:58, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230206.b/02062326ECD7.D
Data file 2: /230206.b/230206.b/02062326ECD7.D
Method: \\target\share\chem4\ecd7.i\230206.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: BLA0559-BSD1
Client ID:
Injection Date: 06-FEB-2023 18:19
Report Date: 02/07/2023 10:36
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

| RT | ZB5 Col Shift | Response | RT | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag |
|--------|---------------|----------|--------|----------------|----------|------------|-------------|-----|----------------------|
| 5.807 | -0.002 | 185547 | 5.685 | 0.000 | 147565 | 34.0 | 32.3 | 5.0 | Tetrachloro-m-xylene |
| 13.889 | -0.003 | 212264 | 14.116 | -0.000 | 245750 | 31.8 | 32.8 | 3.2 | Decachlorobiphenyl |

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | |
|--------------------|----------------|-------------|-------|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 503318 | 386207 | -23.3 |
| Hexabromobiphenyl | 647433 | 623990 | -3.6 |

| Standard Cpnd | Column 2 | | |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 336911 | 337737 | 0.2 |
| Hexabromobiphenyl | 382032 | 471432 | 23.4 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-JAN-2023
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | ZB35 Col | | | | | |
|--------------------------|-------|--------|--------|--------|----------|--------------------------|--------|--------|--------|-----------------|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount |
| Aroclor-1016 | 1 | 7.268 | -0.002 | 65258 | 454.7 | 1 | 7.252 | -0.001 | 83413 | 455.4 |
| Aroclor-1016 | 2 | 7.647 | -0.004 | 222836 | 468.6 | 2 | 7.845 | -0.003 | 194240 | 483.9 |
| Aroclor-1016 | 3 | 7.784 | -0.005 | 89215 | 407.8 | 3 | 8.046 | -0.002 | 78450 | 478.9 |
| Aroclor-1016 | 4 | 8.400 | -0.004 | 66470 | 472.3 | 4 | 8.302 | -0.001 | 57851 | 450.5 |
| Total CollAve (4 peaks): | | | | 450.8 | | Total Col2Ave (4 peaks): | | | | 467.2 RPD = 4 |
| Corrected Ave (3 peaks): | | | | 443.7 | | Corrected Ave (3 peaks): | | | | 461.6 RPD = 4 |
| Aroclor-1221 | 1 | 4.736 | 0.004 | 1095 | 38.4 | 1 | 4.959 | -0.000 | 297 | 12.0 |
| Aroclor-1221 | 2 | 6.130 | -0.003 | 8583 | 147.0 | 2 | 6.296 | -0.002 | 7673 | 141.4 |
| Aroclor-1221 | 3 | 6.381 | -0.003 | 42211 | 311.5 | 3 | 6.619 | -0.004 | 32752 | 357.7 |
| Total CollAve (3 peaks): | | | | 165.6 | | Total Col2Ave (3 peaks): | | | | 170.4 RPD = 3 |
| Corrected Ave: < 3 Peaks | | | | | | Corrected Ave: < 3 Peaks | | | | |
| Aroclor-1232 | 1 | 4.736 | 0.003 | 1095 | 61.4 | 1 | 4.959 | -0.001 | 297 | 19.8 |
| Aroclor-1232 | 2 | 6.130 | -0.003 | 8583 | 213.7 | 2 | 7.252 | -0.005 | 83413 | 992.6 |
| Aroclor-1232 | 3 | 7.647 | -0.012 | 222836 | 1109.5 | 3 | 7.845 | -0.009 | 194240 | 1134.8 |
| Aroclor-1232 | 4 | 8.571 | -0.013 | 81665 | 949.9 | 4 | 8.708 | -0.005 | 60018 | 1262.0 |
| Total CollAve (4 peaks): | | | | 583.6 | | Total Col2Ave (4 peaks): | | | | 852.3 RPD = 37 |
| Corrected Ave (3 peaks): | | | | 408.4 | | Corrected Ave (3 peaks): | | | | 715.7 RPD = 55* |
| Aroclor-1242 | 1 | 7.268 | -0.003 | 65258 | 551.8 | 1 | 7.252 | -0.002 | 83413 | 564.7 |
| Aroclor-1242 | 2 | 7.647 | -0.008 | 222836 | 575.8 | 2 | 7.845 | -0.005 | 194240 | 592.0 |
| Aroclor-1242 | 3 | 8.400 | -0.007 | 66470 | 578.1 | 3 | 9.147 | -0.006 | 10351 | 100.7 |
| Aroclor-1242 | 4 | 8.571 | -0.010 | 81665 | 470.1 | 4 | 9.571 | -0.007 | 6061 | 44.5 |
| Total CollAve (4 peaks): | | | | 543.9 | | Total Col2Ave (4 peaks): | | | | 325.5 RPD = 50* |
| Corrected Ave (3 peaks): | | | | 532.6 | | Corrected Ave (3 peaks): | | | | 236.7 RPD = 77* |
| Aroclor-1248 | 1 | 8.400 | -0.006 | 66470 | 344.0 | 1 | 8.302 | -0.001 | 57851 | 378.9 |
| Aroclor-1248 | 2 | 8.571 | -0.009 | 81665 | 331.4 | 2 | 8.708 | -0.001 | 60018 | 365.2 |
| Aroclor-1248 | 3 | 8.989 | -0.010 | 63099 | 133.8 | 3 | 9.147 | -0.005 | 10351 | 51.6 |
| Aroclor-1248 | 4 | 9.293 | -0.001 | 64396 | 276.0 | 4 | 9.571 | -0.005 | 6061 | 24.4 |
| Total CollAve (4 peaks): | | | | 271.3 | | Total Col2Ave (4 peaks): | | | | 205.0 RPD = 28 |
| Corrected Ave (3 peaks): | | | | 247.1 | | Corrected Ave (3 peaks): | | | | 147.1 RPD = 51* |
| Aroclor-1254 | 1 | 9.293 | -0.006 | 64396 | 163.6 | 1 | 9.442 | -0.002 | 49388 | 201.6 |
| Aroclor-1254 | 2 | --- | --- | --- | 0.0 | 2 | 9.962 | -0.001 | 10818 | 54.6 |
| Aroclor-1254 | 3 | 9.659 | -0.010 | 10882 | 43.1 | 3 | 10.140 | 0.025 | 109852 | 254.3 |
| Aroclor-1254 | 4 | 9.796 | -0.013 | 37186 | 75.2 | 4 | 10.365 | 0.001 | 142023 | 328.7 |
| Aroclor-1254 | 5 | 10.114 | -0.063 | 171965 | 535.1 | 5 | 10.560 | -0.002 | 185481 | 770.8 |
| Total CollAve (4 peaks): | | | | 204.3 | | Total Col2Ave (5 peaks): | | | | 322.0 RPD = 45* |
| Corrected Ave (3 peaks): | | | | 94.0 | | Corrected Ave (4 peaks): | | | | 209.8 RPD = 76* |
| Aroclor-1260 | 1 | 11.039 | -0.005 | 135531 | 387.1 | 1 | 11.648 | 0.000 | 141048 | 414.7 |
| Aroclor-1260 | 2 | 11.355 | -0.006 | 140748 | 391.1 | 2 | 11.910 | -0.002 | 340649 | 395.9 |
| Aroclor-1260 | 3 | 11.726 | -0.008 | 348151 | 367.5 | 3 | 12.431 | -0.000 | 95666 | 446.1 |
| Aroclor-1260 | 4 | 12.130 | -0.010 | 191221 | 390.6 | 4 | 12.494 | -0.002 | 233326 | 419.0 |
| Aroclor-1260 | 5 | 12.238 | -0.006 | 76831 | 360.1 | NS | --- | --- | --- | --- |
| Total CollAve (5 peaks): | | | | 379.3 | | Total Col2Ave (4 peaks): | | | | 418.9 RPD = 10 |
| Corrected Ave (4 peaks): | | | | 376.3 | | Corrected Ave (3 peaks): | | | | 409.9 RPD = 9 |
| Aroclor-1262 | 1 | 10.816 | -0.016 | 269606 | 1068.4 | 1 | 11.194 | -0.006 | 130438 | 282.7 |
| Aroclor-1262 | 2 | 12.238 | -0.007 | 76831 | 192.9 | 2 | 11.648 | -0.005 | 141048 | 359.5 |
| Aroclor-1262 | 3 | 12.312 | -0.008 | 92147 | 213.1 | 3 | 12.431 | -0.003 | 95666 | 229.0 |
| Aroclor-1262 | 4 | 12.980 | -0.009 | 85064 | 215.9 | 4 | 12.494 | -0.009 | 233326 | 348.7 |
| Total CollAve (4 peaks): | | | | 422.6 | | Total Col2Ave (4 peaks): | | | | 305.0 RPD = 32 |
| Corrected Ave (3 peaks): | | | | 207.3 | | Corrected Ave (3 peaks): | | | | 286.8 RPD = 32 |
| Aroclor-1268 | 1 | 12.238 | -0.007 | 76831 | 74.5 | 1 | 12.431 | -0.003 | 95666 | 86.9 |
| Aroclor-1268 | 2 | 12.312 | -0.006 | 92147 | 89.6 | 2 | 12.494 | -0.007 | 233326 | 199.2 |
| Aroclor-1268 | 3 | 12.717 | 0.018 | 41395 | 48.6 | 3 | 12.888 | -0.005 | 5777 | 5.9 |
| Aroclor-1268 | 4 | 13.481 | -0.007 | 26376 | 10.4 | 4 | 13.703 | -0.005 | 27241 | 9.0 |
| Total CollAve (4 peaks): | | | | 55.8 | | Total Col2Ave (4 peaks): | | | | 75.3 RPD = 30 |

Corrected Ave (3 peaks): 44.5 Corrected Ave (3 peaks): 34.0 RPD = 27

Total PCB Area Col1 (5.909 - 13.792) = 3863503 Col1 Total PCB = 0.9 ppm*

Total PCB Area Col2 (5.784 - 14.017) = 3395206 Col2 Total PCB = 1.0 ppm*

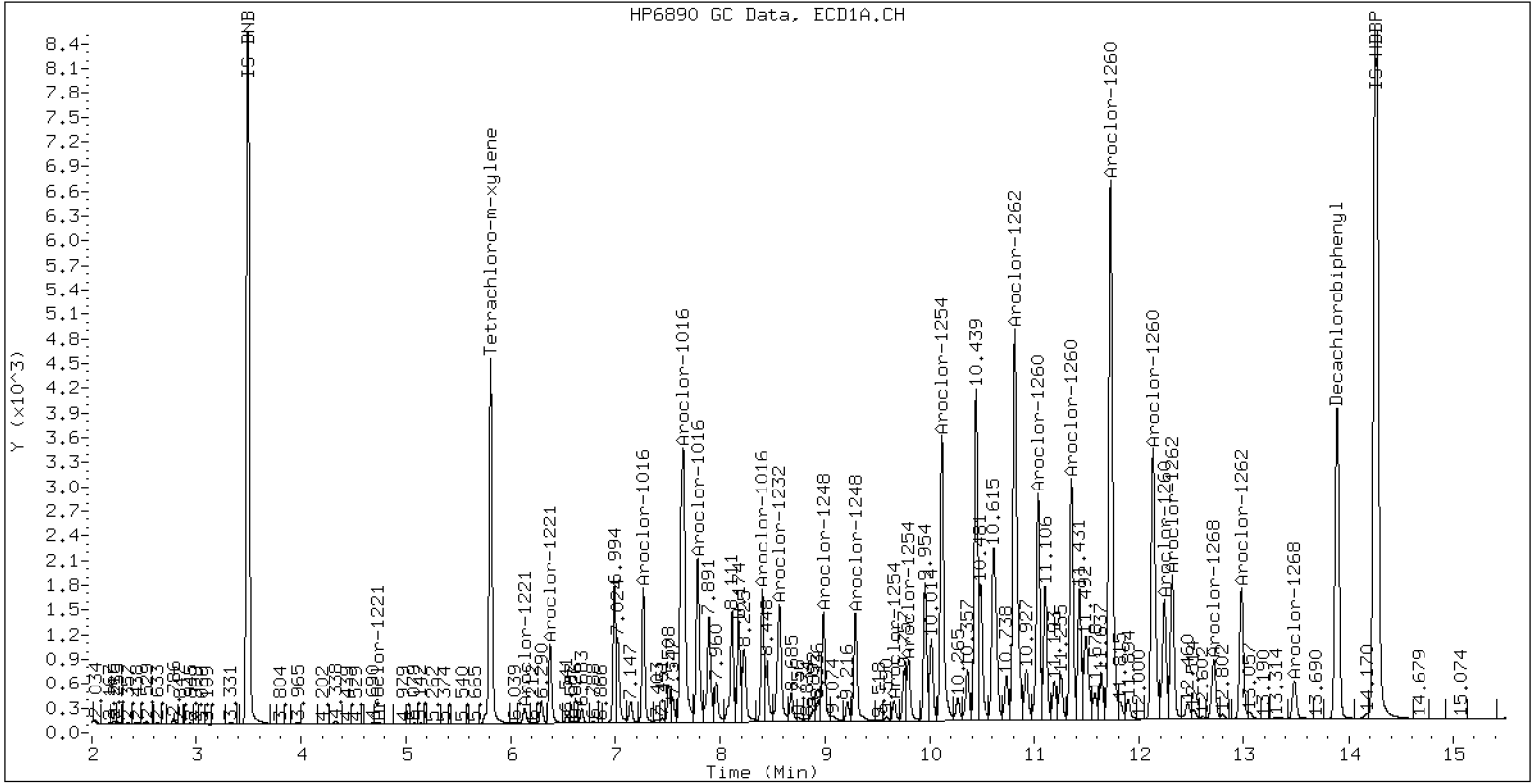
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 BLA0559-BSD1

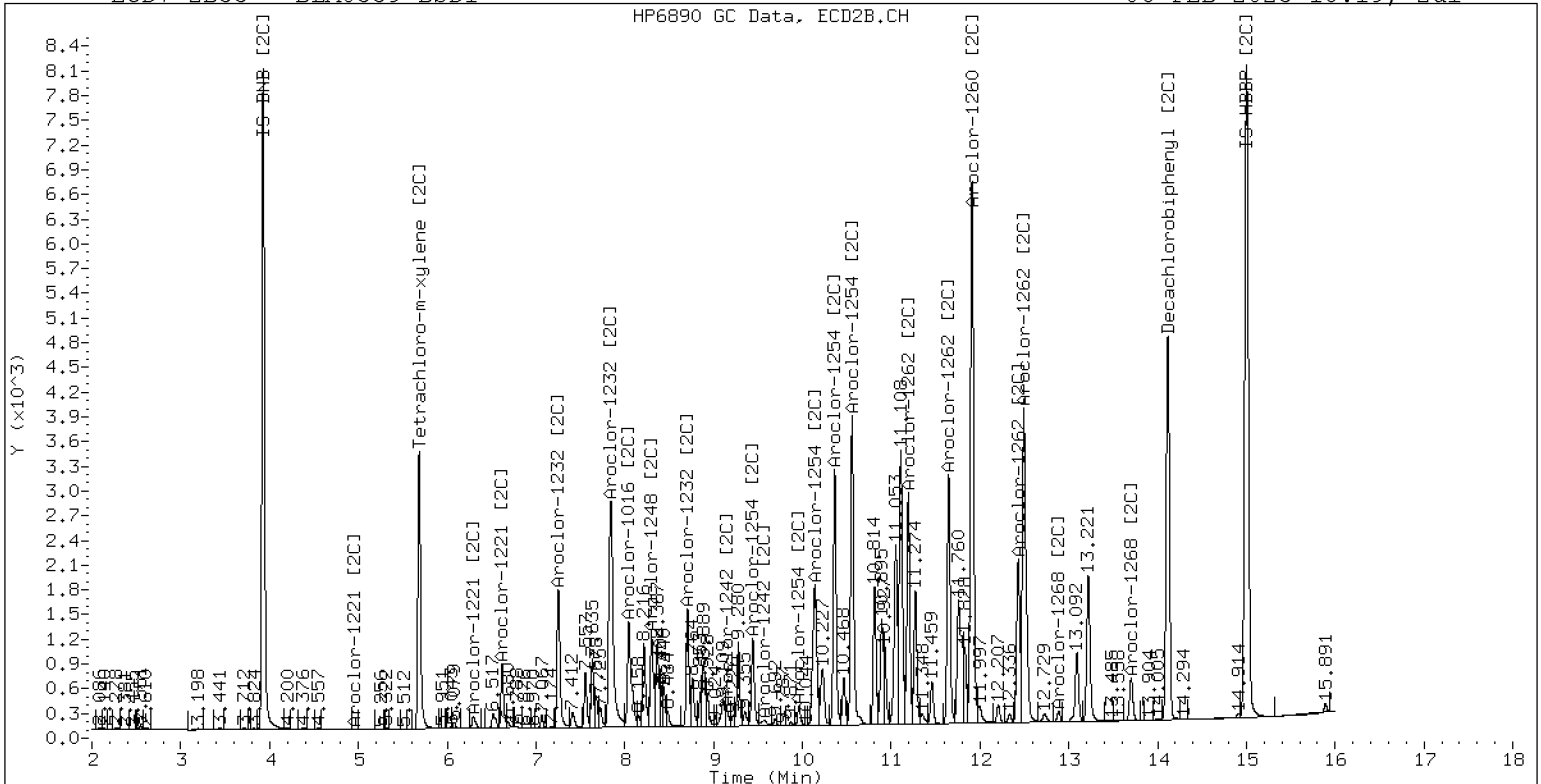
06-FEB-2023 18:19, 2u1



ZB-5 Manual Integration: NO

ECD7-ZB35 BLA0559-BSD1

06-FEB-2023 18:19, 2u1



ZB-35 Manual Integration: NO



MS / MS DUPLICATE RECOVERY
EPA 8082A

| | | | |
|----------------|----------------------------------|----------------|------------------------|
| Laboratory: | <u>Analytical Resources, LLC</u> | SDG: | <u>23A0180</u> |
| Client: | <u>Anchor OEA, LLC</u> | Project: | <u>AOC5 MR Phase 1</u> |
| Matrix: | <u>Solid</u> | Analyzed: | <u>02/06/23 23:55</u> |
| Batch: | <u>BLA0559</u> | Laboratory ID: | <u>BLA0559-MS1</u> |
| Preparation: | <u>EPA 3546 (Microwave)</u> | Sequence Name: | <u>Matrix Spike</u> |
| Initial/Final: | <u>19.64 g / 2.5 mL</u> | Source Sample: | <u>LDW23-SC1101</u> |

| COMPOUND | SPIKE ADDED (ug/kg dry) | SAMPLE CONCENTRATION (ug/kg dry) | Q | MS CONCENTRATION (ug/kg dry) | Q | MS % REC. # | QC LIMITS REC. |
|--------------|-------------------------|----------------------------------|---|------------------------------|---|-------------|----------------|
| Aroclor 1016 | 101 | ND | U | 62.4 | | 61.9 | 56 - 120 |
| Aroclor 1260 | 101 | 22.8 | | 80.8 | * | 57.5 * | 58 - 120 |

* Values outside of QC limits

[2C] indicates second-column analyte, present if quantification on any batch samples used second column data.



MS / MS DUPLICATE RECOVERY
EPA 8082A

| | | | |
|----------------|----------------------------------|----------------|-------------------------|
| Laboratory: | <u>Analytical Resources, LLC</u> | SDG: | <u>23A0180</u> |
| Client: | <u>Anchor QEA, LLC</u> | Project: | <u>AOC5 MR Phase 1</u> |
| Matrix: | <u>Solid</u> | Analyzed: | <u>02/07/23 00:16</u> |
| Batch: | <u>BLA0559</u> | Laboratory ID: | <u>BLA0559-MSD1</u> |
| Preparation: | <u>EPA 3546 (Microwave)</u> | Sequence Name: | <u>Matrix Spike Dup</u> |
| Initial/Final: | <u>19.64 g / 2.5 mL</u> | Source Sample: | <u>LDW23-SC1101</u> |

| COMPOUND | SPIKE ADDED (ug/kg dry) | MSD CONCENTRATION (ug/kg dry) | Q | MSD % REC. # | % RPD # | QC LIMITS | |
|--------------|-------------------------|-------------------------------|---|--------------|---------|-----------|----------|
| | | | | | | RPD | REC. |
| Aroclor 1016 | 101 | 62.7 | | 62.2 | 0.574 | 30 | 56 - 120 |
| Aroclor 1260 | 101 | 84.9 | | 61.6 | 4.95 | 30 | 58 - 120 |

* Values outside of QC limits

[2C] indicates second-column analyte, present if quantification on any batch samples used second column data.

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230206.b/02062342ECD7.D
Data file 2: /230206.b/230206.b/02062342ECD7.D
Method: \\target\share\chem4\ecd7.i\230206.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: BLA0559-MS1
Client ID:
Injection Date: 06-FEB-2023 23:55
Report Date: 02/07/2023 10:36
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

| RT | ZB5 Col Shift | Response | RT | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag |
|--------|---------------|----------|--------|----------------|----------|------------|-------------|-----|----------------------|
| 5.805 | -0.003 | 137226 | 5.682 | -0.003 | 117362 | 25.1 | 27.5 | 9.0 | Tetrachloro-m-xylene |
| 13.885 | -0.007 | 108991 | 14.112 | -0.004 | 147707 | 30.6 | 30.9 | 1.1 | Decachlorobiphenyl |

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | |
|--------------------|----------------|-------------|-------|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 503318 | 386468 | -23.2 |
| Hexabromobiphenyl | 647433 | 333273 | -48.5 |

| Standard Cpnd | Column 2 | | |
|--------------------|----------------|-------------|-------|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 336911 | 315766 | -6.3 |
| Hexabromobiphenyl | 382032 | 301052 | -21.2 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-JAN-2023
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | ZB35 Col | | | | | |
|--------------------------|-------|--------|--------|--------|----------|--------------------------|--------|--------|--------|-----------------|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount |
| Aroclor-1016 | 1 | 7.265 | -0.005 | 45958 | 320.0 | 1 | 7.249 | -0.004 | 60311 | 352.1 |
| Aroclor-1016 | 2 | 7.641 | -0.009 | 153624 | 322.8 | 2 | 7.839 | -0.009 | 139058 | 370.5 |
| Aroclor-1016 | 3 | 7.779 | -0.009 | 54633 | 249.5 | 3 | 8.040 | -0.008 | 51388 | 335.5 |
| Aroclor-1016 | 4 | 8.396 | -0.008 | 50031 | 355.2 | 4 | 8.298 | -0.005 | 40986 | 341.4 |
| Total CollAve (4 peaks): | | | | 311.9 | | Total Col2Ave (4 peaks): | | | | 349.9 RPD = 11 |
| Corrected Ave (3 peaks): | | | | 297.5 | | Corrected Ave (3 peaks): | | | | 343.0 RPD = 14 |
| Aroclor-1221 | 1 | 4.733 | 0.000 | 561 | 19.6 | 1 | 4.944 | -0.015 | 701 | 30.3 |
| Aroclor-1221 | 2 | 6.128 | -0.005 | 6143 | 105.2 | 2 | 6.294 | -0.005 | 8440 | 166.4 |
| Aroclor-1221 | 3 | 6.378 | -0.006 | 30452 | 224.6 | 3 | 6.616 | -0.007 | 26690 | 311.7 |
| Total CollAve (3 peaks): | | | | 116.5 | | Total Col2Ave (3 peaks): | | | | 169.5 RPD = 37 |
| Corrected Ave: < 3 Peaks | | | | | | Corrected Ave: < 3 Peaks | | | | |
| Aroclor-1232 | 1 | 4.733 | -0.000 | 561 | 31.5 | 1 | 4.944 | -0.016 | 701 | 49.9 |
| Aroclor-1232 | 2 | 6.128 | -0.005 | 6143 | 152.9 | 2 | 7.249 | -0.007 | 60311 | 767.6 |
| Aroclor-1232 | 3 | 7.641 | -0.017 | 153624 | 764.3 | 3 | 7.839 | -0.015 | 139058 | 869.0 |
| Aroclor-1232 | 4 | 8.565 | -0.019 | 48218 | 560.5 | 4 | 8.704 | -0.010 | 45936 | 1033.1 |
| Total CollAve (4 peaks): | | | | 377.3 | | Total Col2Ave (4 peaks): | | | | 679.9 RPD = 57* |
| Corrected Ave (3 peaks): | | | | 248.3 | | Corrected Ave (3 peaks): | | | | 562.2 RPD = 77* |
| Aroclor-1242 | 1 | 7.265 | -0.005 | 45958 | 388.4 | 1 | 7.249 | -0.004 | 60311 | 436.7 |
| Aroclor-1242 | 2 | 7.641 | -0.014 | 153624 | 396.7 | 2 | 7.839 | -0.011 | 139058 | 453.3 |
| Aroclor-1242 | 3 | 8.396 | -0.011 | 50031 | 434.8 | 3 | 9.136 | -0.017 | 25285 | 263.2 |
| Aroclor-1242 | 4 | 8.565 | -0.016 | 48218 | 277.4 | 4 | 9.531 | -0.047 | 27823 | 218.5 |
| Total CollAve (4 peaks): | | | | 374.3 | | Total Col2Ave (4 peaks): | | | | 343.0 RPD = 9 |
| Corrected Ave (3 peaks): | | | | 354.1 | | Corrected Ave (3 peaks): | | | | 306.2 RPD = 15 |
| Aroclor-1248 | 1 | 8.396 | -0.010 | 50031 | 258.8 | 1 | 8.298 | -0.005 | 40986 | 287.1 |
| Aroclor-1248 | 2 | 8.565 | -0.015 | 48218 | 195.5 | 2 | 8.704 | -0.006 | 45936 | 299.0 |
| Aroclor-1248 | 3 | 8.983 | -0.016 | 58604 | 124.2 | 3 | 9.136 | -0.016 | 25285 | 134.7 |
| Aroclor-1248 | 4 | 9.286 | -0.008 | 61214 | 262.2 | 4 | 9.531 | -0.045 | 27823 | 119.8 |
| Total CollAve (4 peaks): | | | | 210.2 | | Total Col2Ave (4 peaks): | | | | 210.2 RPD = 0 |
| Corrected Ave (3 peaks): | | | | 192.8 | | Corrected Ave (3 peaks): | | | | 180.6 RPD = 7 |
| Aroclor-1254 | 1 | 9.286 | -0.013 | 61214 | 155.4 | 1 | 9.436 | -0.008 | 51700 | 225.7 |
| Aroclor-1254 | 2 | 9.360 | -0.017 | 13618 | 81.0 | 2 | 9.955 | -0.008 | 19511 | 105.4 |
| Aroclor-1254 | 3 | 9.653 | -0.016 | 28336 | 112.3 | 3 | 10.134 | 0.019 | 54726 | 135.5 |
| Aroclor-1254 | 4 | 9.784 | -0.025 | 74767 | 151.2 | 4 | 10.359 | -0.005 | 132392 | 327.8 |
| Aroclor-1254 | 5 | 10.239 | 0.062 | 21802 | 67.8 | 5 | 10.553 | -0.010 | 138166 | 614.2 |
| Total CollAve (5 peaks): | | | | 113.5 | | Total Col2Ave (5 peaks): | | | | 281.7 RPD = 85* |
| Corrected Ave (4 peaks): | | | | 103.1 | | Corrected Ave (4 peaks): | | | | 198.6 RPD = 63* |
| Aroclor-1260 | 1 | 11.032 | -0.012 | 80055 | 428.1 | 1 | 11.642 | -0.006 | 93525 | 430.6 |
| Aroclor-1260 | 2 | 11.348 | -0.013 | 77935 | 405.4 | 2 | 11.903 | -0.009 | 229048 | 416.9 |
| Aroclor-1260 | 3 | 11.717 | -0.017 | 202117 | 399.4 | 3 | 12.424 | -0.008 | 71535 | 522.3 |
| Aroclor-1260 | 4 | 12.118 | -0.021 | 106353 | 406.8 | 4 | 12.488 | -0.009 | 149988 | 421.8 |
| Aroclor-1260 | 5 | 12.233 | -0.011 | 43309 | 380.0 | NS | --- | | | ---- |
| Total CollAve (5 peaks): | | | | 404.0 | | Total Col2Ave (4 peaks): | | | | 447.9 RPD = 10 |
| Corrected Ave (4 peaks): | | | | 397.9 | | Corrected Ave (3 peaks): | | | | 423.1 RPD = 6 |
| Aroclor-1262 | 1 | 10.806 | -0.026 | 193422 | 1435.1 | 1 | 11.189 | -0.011 | 84044 | 285.2 |
| Aroclor-1262 | 2 | 12.233 | -0.013 | 43309 | 203.6 | 2 | 11.642 | -0.011 | 93525 | 373.3 |
| Aroclor-1262 | 3 | 12.306 | -0.015 | 50032 | 216.6 | 3 | 12.424 | -0.011 | 71535 | 268.1 |
| Aroclor-1262 | 4 | 12.972 | -0.017 | 50933 | 242.0 | 4 | 12.488 | -0.016 | 149988 | 351.0 |
| Total CollAve (4 peaks): | | | | 524.3 | | Total Col2Ave (4 peaks): | | | | 319.4 RPD = 49* |
| Corrected Ave (3 peaks): | | | | 220.7 | | Corrected Ave (3 peaks): | | | | 301.5 RPD = 31 |
| Aroclor-1268 | 1 | 12.233 | -0.012 | 43309 | 78.7 | 1 | 12.424 | -0.010 | 71535 | 101.8 |
| Aroclor-1268 | 2 | 12.306 | -0.012 | 50032 | 91.1 | 2 | 12.488 | -0.014 | 149988 | 200.5 |
| Aroclor-1268 | 3 | 12.707 | 0.008 | 25829 | 56.8 | 3 | 12.885 | -0.008 | 7937 | 12.7 |
| Aroclor-1268 | 4 | 13.476 | -0.013 | 21470 | 15.9 | 4 | 13.699 | -0.010 | 27522 | 14.3 |
| Total CollAve (4 peaks): | | | | 60.6 | | Total Col2Ave (4 peaks): | | | | 82.3 RPD = 30 |

Corrected Ave (3 peaks): 50.5 Corrected Ave (3 peaks): 42.9 RPD = 16

Total PCB Area Col1 (5.909 - 13.792) = 2690326 Col1 Total PCB = 0.6 ppm*

Total PCB Area Col2 (5.784 - 14.017) = 2644685 Col2 Total PCB = 0.8 ppm*

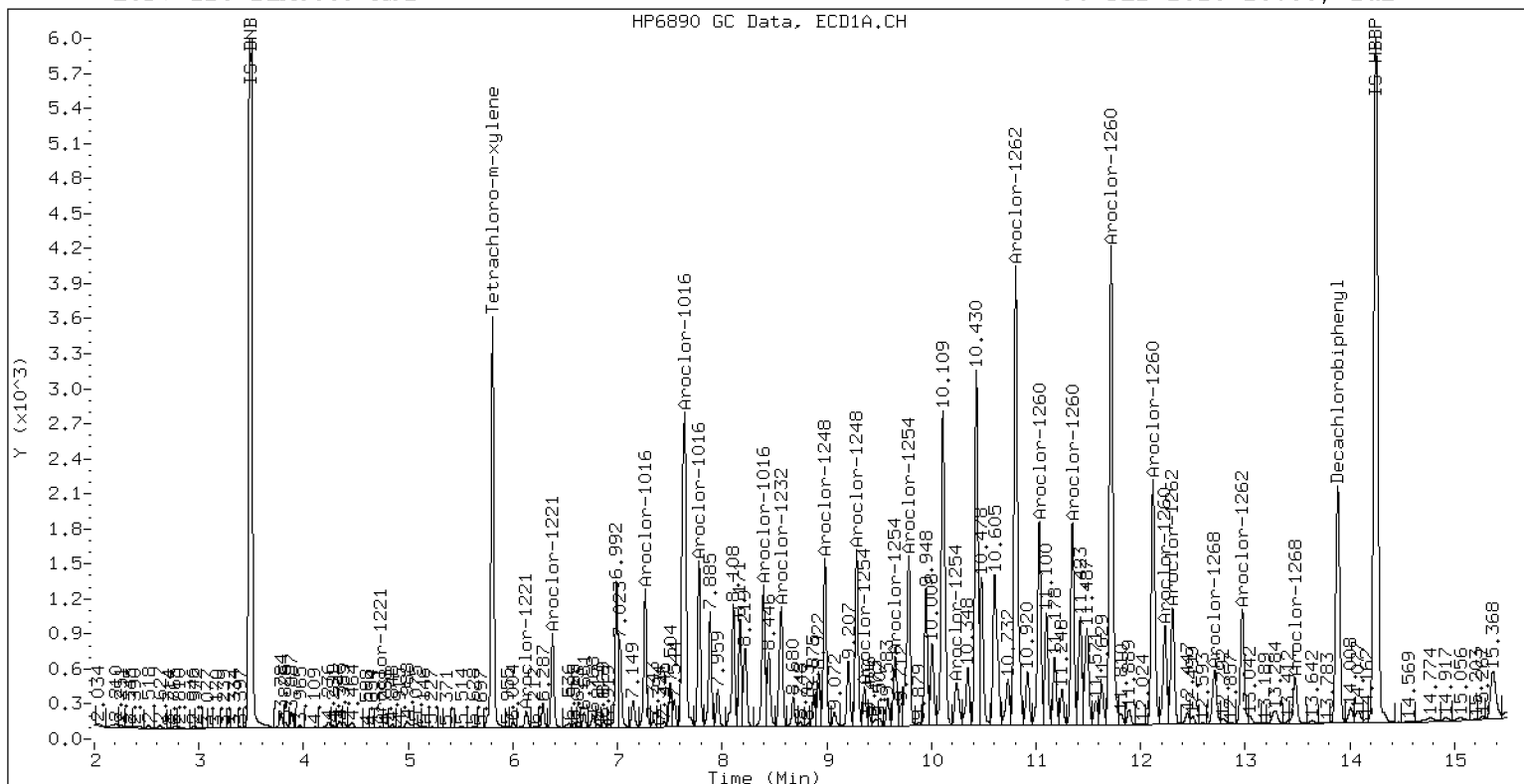
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 BLA0559-MS1

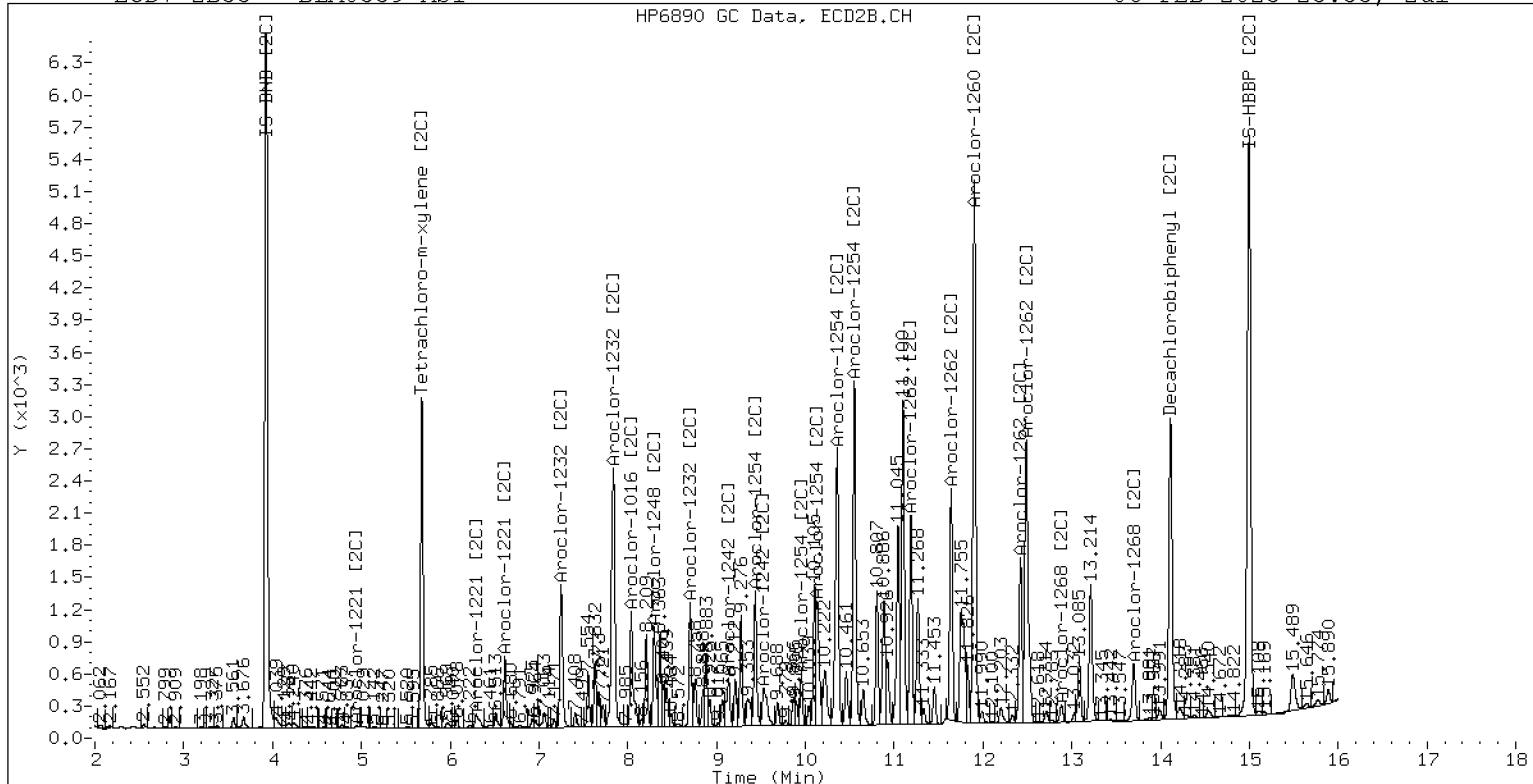
06-FEB-2023 23:55, 2u1



ZB-5 Manual Integration: NO

ECD7-ZB35 BLA0559-MS1

06-FEB-2023 23:55, 2u1



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230206.b/02062343ECD7.D
Data file 2: /230206.b/230206.b/02062343ECD7.D
Method: \\target\share\chem4\ecd7.i\230206.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: BLA0559-MSD1
Client ID:
Injection Date: 07-FEB-2023 00:16
Report Date: 02/07/2023 10:36
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

| RT | ZB5 Col Shift | Response | RT | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag |
|--------|---------------|----------|--------|----------------|----------|------------|-------------|------|----------------------|
| 5.806 | -0.003 | 137564 | 5.682 | -0.002 | 118534 | 25.2 | 27.9 | 10.2 | Tetrachloro-m-xylene |
| 13.884 | -0.007 | 109811 | 14.112 | -0.004 | 151484 | 31.7 | 31.8 | 0.3 | Decachlorobiphenyl |

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | |
|--------------------|----------------|-------------|----------|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 503318 | 386172 | -23.3 |
| Hexabromobiphenyl | 647433 | 323704 | -50.0 <- |

| Standard Cpnd | Column 2 | | |
|--------------------|----------------|-------------|-------|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 336911 | 314171 | -6.7 |
| Hexabromobiphenyl | 382032 | 299929 | -21.5 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-JAN-2023
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | ZB35 Col | | | | | |
|--------------------------|-------|--------|--------|--------|----------|--------------------------|--------|--------|--------|-----------------|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount |
| Aroclor-1016 | 1 | 7.265 | -0.005 | 45985 | 320.5 | 1 | 7.250 | -0.003 | 60754 | 356.5 |
| Aroclor-1016 | 2 | 7.641 | -0.010 | 154711 | 325.4 | 2 | 7.839 | -0.009 | 140501 | 376.3 |
| Aroclor-1016 | 3 | 7.780 | -0.009 | 54725 | 250.2 | 3 | 8.039 | -0.009 | 51760 | 339.7 |
| Aroclor-1016 | 4 | 8.395 | -0.009 | 50500 | 358.9 | 4 | 8.298 | -0.005 | 41505 | 347.4 |
| Total CollAve (4 peaks): | | | | 313.7 | | Total Col2Ave (4 peaks): | | | | 355.0 RPD = 12 |
| Corrected Ave (3 peaks): | | | | 298.7 | | Corrected Ave (3 peaks): | | | | 347.9 RPD = 15 |
| Aroclor-1221 | 1 | 4.733 | 0.000 | 521 | 18.3 | 1 | 4.949 | -0.011 | 1117 | 48.5 |
| Aroclor-1221 | 2 | 6.128 | -0.005 | 6453 | 110.6 | 2 | 6.293 | -0.005 | 8178 | 162.0 |
| Aroclor-1221 | 3 | 6.378 | -0.006 | 30824 | 227.5 | 3 | 6.616 | -0.007 | 27767 | 326.0 |
| Total CollAve (3 peaks): | | | | 118.8 | | Total Col2Ave (3 peaks): | | | | 178.8 RPD = 40* |
| Corrected Ave: < 3 Peaks | | | | | | Corrected Ave: < 3 Peaks | | | | |
| Aroclor-1232 | 1 | 4.733 | -0.000 | 521 | 29.2 | 1 | 4.949 | -0.011 | 1117 | 80.0 |
| Aroclor-1232 | 2 | 6.128 | -0.005 | 6453 | 160.7 | 2 | 7.250 | -0.007 | 60754 | 777.2 |
| Aroclor-1232 | 3 | 7.641 | -0.018 | 154711 | 770.3 | 3 | 7.839 | -0.015 | 140501 | 882.4 |
| Aroclor-1232 | 4 | 8.565 | -0.020 | 48250 | 561.3 | 4 | 8.704 | -0.010 | 47085 | 1064.4 |
| Total CollAve (4 peaks): | | | | 380.4 | | Total Col2Ave (4 peaks): | | | | 701.0 RPD = 59* |
| Corrected Ave (3 peaks): | | | | 250.4 | | Corrected Ave (3 peaks): | | | | 579.9 RPD = 79* |
| Aroclor-1242 | 1 | 7.265 | -0.005 | 45985 | 388.9 | 1 | 7.250 | -0.004 | 60754 | 442.2 |
| Aroclor-1242 | 2 | 7.641 | -0.014 | 154711 | 399.8 | 2 | 7.839 | -0.011 | 140501 | 460.4 |
| Aroclor-1242 | 3 | 8.395 | -0.012 | 50500 | 439.2 | 3 | 9.135 | -0.018 | 25793 | 269.9 |
| Aroclor-1242 | 4 | 8.565 | -0.017 | 48250 | 277.8 | 4 | 9.531 | -0.047 | 28741 | 226.9 |
| Total CollAve (4 peaks): | | | | 376.4 | | Total Col2Ave (4 peaks): | | | | 349.8 RPD = 7 |
| Corrected Ave (3 peaks): | | | | 355.5 | | Corrected Ave (3 peaks): | | | | 313.0 RPD = 13 |
| Aroclor-1248 | 1 | 8.395 | -0.011 | 50500 | 261.4 | 1 | 8.298 | -0.005 | 41505 | 292.3 |
| Aroclor-1248 | 2 | 8.565 | -0.015 | 48250 | 195.8 | 2 | 8.704 | -0.006 | 47085 | 308.0 |
| Aroclor-1248 | 3 | 8.983 | -0.016 | 58778 | 124.7 | 3 | 9.135 | -0.017 | 25793 | 138.1 |
| Aroclor-1248 | 4 | 9.285 | -0.008 | 62728 | 268.9 | 4 | 9.531 | -0.044 | 28741 | 124.4 |
| Total CollAve (4 peaks): | | | | 212.7 | | Total Col2Ave (4 peaks): | | | | 215.7 RPD = 1 |
| Corrected Ave (3 peaks): | | | | 194.0 | | Corrected Ave (3 peaks): | | | | 184.9 RPD = 5 |
| Aroclor-1254 | 1 | 9.285 | -0.014 | 62728 | 159.4 | 1 | 9.436 | -0.008 | 52288 | 229.4 |
| Aroclor-1254 | 2 | 9.360 | -0.018 | 13983 | 83.2 | 2 | 9.954 | -0.009 | 20629 | 112.0 |
| Aroclor-1254 | 3 | 9.653 | -0.016 | 29237 | 115.9 | 3 | 10.134 | 0.019 | 53699 | 133.6 |
| Aroclor-1254 | 4 | 9.784 | -0.025 | 76541 | 154.9 | 4 | 10.358 | -0.006 | 135633 | 337.5 |
| Aroclor-1254 | 5 | 10.239 | 0.062 | 21391 | 66.6 | 5 | 10.553 | -0.010 | 140943 | 629.7 |
| Total CollAve (5 peaks): | | | | 116.0 | | Total Col2Ave (5 peaks): | | | | 288.4 RPD = 85* |
| Corrected Ave (4 peaks): | | | | 105.2 | | Corrected Ave (4 peaks): | | | | 203.1 RPD = 64* |
| Aroclor-1260 | 1 | 11.032 | -0.011 | 82387 | 453.6 | 1 | 11.642 | -0.007 | 91126 | 421.1 |
| Aroclor-1260 | 2 | 11.348 | -0.013 | 79530 | 426.0 | 2 | 11.903 | -0.009 | 234796 | 428.9 |
| Aroclor-1260 | 3 | 11.717 | -0.017 | 205808 | 418.7 | 3 | 12.423 | -0.009 | 73280 | 537.1 |
| Aroclor-1260 | 4 | 12.118 | -0.021 | 108150 | 425.9 | 4 | 12.487 | -0.010 | 152702 | 431.0 |
| Aroclor-1260 | 5 | 12.233 | -0.011 | 44075 | 398.2 | NS | --- | | | ---- |
| Total CollAve (5 peaks): | | | | 424.5 | | Total Col2Ave (4 peaks): | | | | 454.5 RPD = 7 |
| Corrected Ave (4 peaks): | | | | 417.2 | | Corrected Ave (3 peaks): | | | | 427.0 RPD = 2 |
| Aroclor-1262 | 1 | 10.805 | -0.027 | 205510 | 1569.9 | 1 | 11.188 | -0.012 | 85546 | 291.4 |
| Aroclor-1262 | 2 | 12.233 | -0.013 | 44075 | 213.3 | 2 | 11.642 | -0.011 | 91126 | 365.1 |
| Aroclor-1262 | 3 | 12.306 | -0.015 | 50919 | 227.0 | 3 | 12.423 | -0.012 | 73280 | 275.7 |
| Aroclor-1262 | 4 | 12.971 | -0.018 | 56302 | 275.4 | 4 | 12.487 | -0.017 | 152702 | 358.7 |
| Total CollAve (4 peaks): | | | | 571.4 | | Total Col2Ave (4 peaks): | | | | 322.7 RPD = 56* |
| Corrected Ave (3 peaks): | | | | 238.6 | | Corrected Ave (3 peaks): | | | | 308.6 RPD = 26 |
| Aroclor-1268 | 1 | 12.233 | -0.012 | 44075 | 82.4 | 1 | 12.423 | -0.011 | 73280 | 104.6 |
| Aroclor-1268 | 2 | 12.306 | -0.012 | 50919 | 95.5 | 2 | 12.487 | -0.015 | 152702 | 204.9 |
| Aroclor-1268 | 3 | 12.706 | 0.007 | 25516 | 57.8 | 3 | 12.884 | -0.009 | 7459 | 12.0 |
| Aroclor-1268 | 4 | 13.476 | -0.013 | 20397 | 15.6 | 4 | 13.699 | -0.010 | 26461 | 13.8 |
| Total CollAve (4 peaks): | | | | 62.8 | | Total Col2Ave (4 peaks): | | | | 83.8 RPD = 29 |

Corrected Ave (3 peaks): 51.9 Corrected Ave (3 peaks): 43.5 RPD = 18

Total PCB Area Col1 (5.909 - 13.792) = 2744860 Col1 Total PCB = 0.6 ppm*

Total PCB Area Col2 (5.784 - 14.017) = 2710297 Col2 Total PCB = 0.8 ppm*

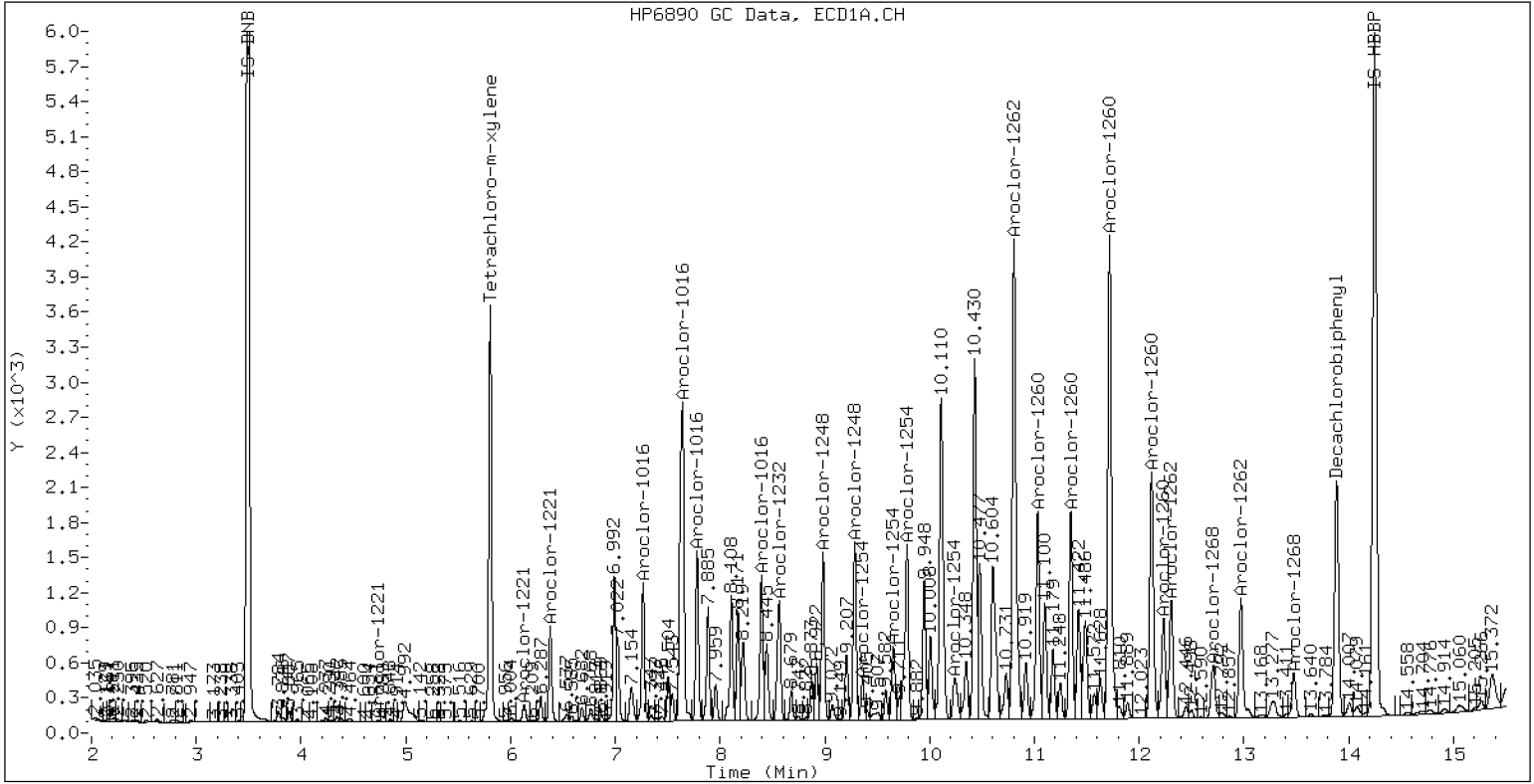
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 BLA0559-MSD1

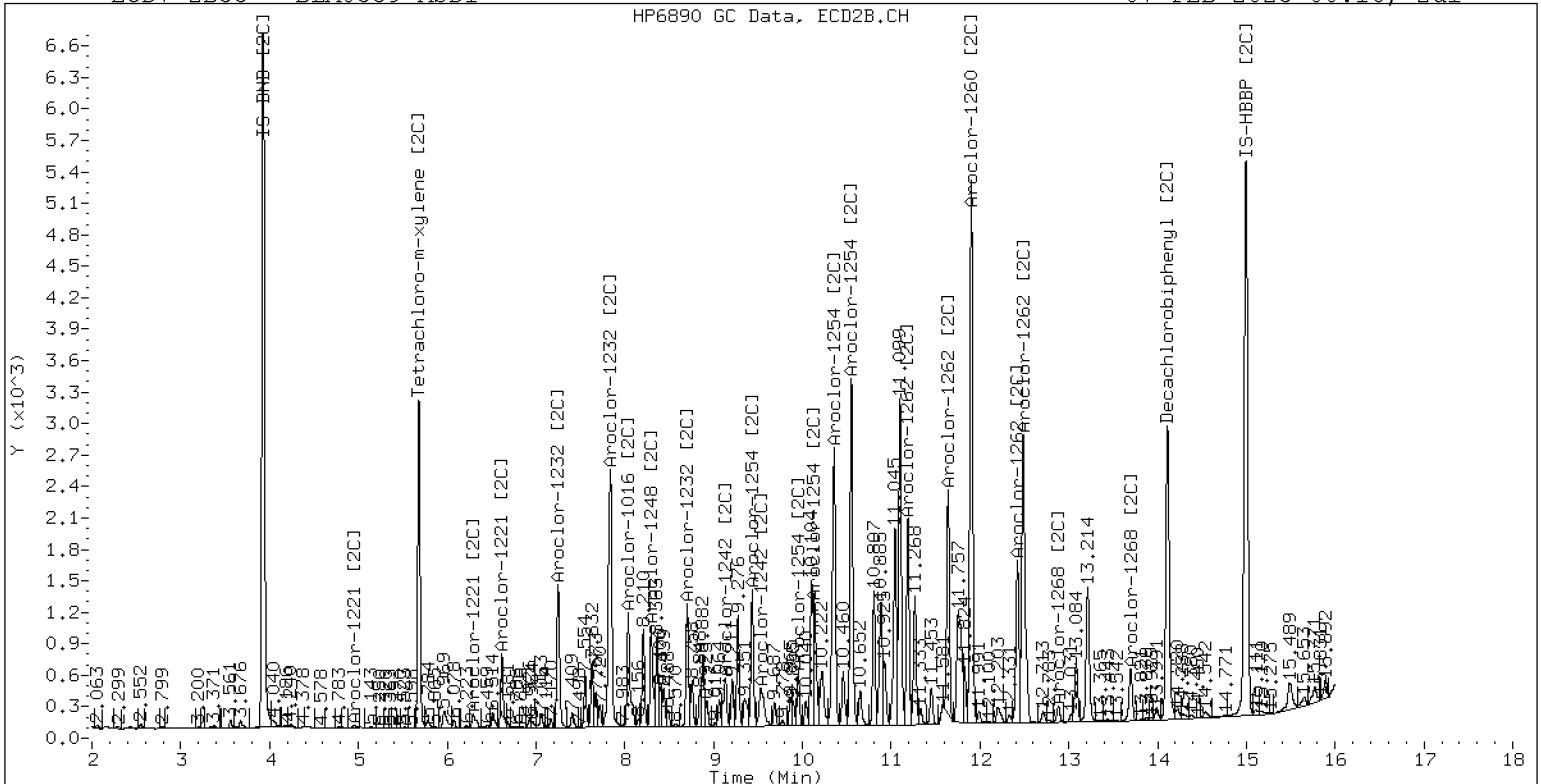
07-FEB-2023 00:16, 2u1



ZB-5 Manual Integration: NO

ECD7-ZB35 BLA0559-MSD1

07-FEB-2023 00:16, 2u1



ZB-35 Manual Integration: NO



STANDARD REFERENCE MATERIAL RECOVERY

EPA 8082A

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Matrix: Solid

Laboratory ID: BLA0559-SRM1

Batch: BLA0559

Initial/Final: 2.5 g / 2.5 mL

Preparation: EPA 3546 (Microwave)

Analyzed: 02/06/2023 18:40

Standard ID: K011478

Expires: 06/11/2023

Standard Lot#: PSRM0169

Description: Puget Sound reference-SRM

| ANALYTE | TRUE (ug/kg wet) | FOUND (ug/kg wet) | MDL | MRL | Q | SRM % REC. | QC LIMITS REC. |
|-------------------|---------------------|----------------------|-----|------|---|------------------|----------------------|
| Aroclor 1260 | 108.00 | 83.2 | 2.9 | 20.0 | | 77.1 | 38 - 167 |
| Aroclor 1260 [2C] | 108.00 | 94.4 | 2.9 | 20.0 | | 87.5 | 38 - 167 |

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230206.b/02062327ECD7.D
Data file 2: /230206.b/230206.b/02062327ECD7.D
Method: \\target\share\chem4\ecd7.i\230206.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: BLA0559-SRM1
Client ID:
Injection Date: 06-FEB-2023 18:40
Report Date: 02/07/2023 10:36
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

| ZB5 Col | | ZB35 Col | | | ZB5 | ZB35 | RPD | Compound/Flag | |
|---------|--------|----------|--------|--------|----------|--------|------|---------------|----------------------|
| RT | Shift | Response | RT | Shift | Response | on col | | | on col |
| 5.808 | -0.001 | 172144 | 5.684 | -0.000 | 152969 | 31.5 | 34.3 | 8.5 | Tetrachloro-m-xylene |
| 13.886 | -0.006 | 165282 | 14.114 | -0.003 | 192537 | 30.7 | 29.0 | 5.6 | Decachlorobiphenyl |

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | |
|--------------------|----------------|-------------|-------|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 503318 | 386898 | -23.1 |
| Hexabromobiphenyl | 647433 | 504151 | -22.1 |

| Standard Cpnd | Column 2 | | |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 336911 | 330256 | -2.0 |
| Hexabromobiphenyl | 382032 | 418615 | 9.6 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-JAN-2023
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | | ZB35 Col | | | | | |
|--------------------------|-------|--------|--------|-------|--------------------------|----------|--------|--------|-------|------------|--|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount | |
| Aroclor-1016 | 1 | 7.301 | 0.031 | 1315 | 9.1 | 1 | 7.257 | 0.004 | 6563 | 36.6 | |
| Aroclor-1016 | 2 | 7.645 | -0.005 | 6646 | 14.0 | 2 | 7.844 | -0.004 | 11225 | 28.6 | |
| Aroclor-1016 | 3 | 7.786 | -0.002 | 3339 | 15.2 | 3 | 8.044 | -0.004 | 1791 | 11.2 | |
| Aroclor-1016 | 4 | 8.400 | -0.004 | 5665 | 40.2 | 4 | 8.301 | -0.002 | 6183 | 49.2 | |
| Total CollAve (4 peaks): | | | | 19.6 | Total Col2Ave (4 peaks): | | | | 31.4 | RPD = 46* | |
| Corrected Ave (3 peaks): | | | | 12.8 | Corrected Ave (3 peaks): | | | | 25.5 | RPD = 66* | |
| Aroclor-1221 | 1 | 4.738 | 0.005 | 367 | 12.8 | 1 | 4.945 | -0.014 | 950 | 39.2 | |
| Aroclor-1221 | 2 | 6.167 | 0.033 | 819 | 14.0 | 2 | 6.340 | 0.042 | 8872 | 167.2 | |
| Aroclor-1221 | 3 | 6.387 | 0.002 | 2128 | 15.7 | 3 | 6.640 | 0.017 | 4269 | 47.7 | |
| Total CollAve (3 peaks): | | | | 14.2 | Total Col2Ave (3 peaks): | | | | 84.7 | RPD = 143* | |
| Corrected Ave: < 3 Peaks | | | | | Corrected Ave: < 3 Peaks | | | | | | |
| Aroclor-1232 | 1 | 4.738 | 0.005 | 367 | 20.6 | 1 | 4.945 | -0.015 | 950 | 64.7 | |
| Aroclor-1232 | 2 | 6.167 | 0.033 | 819 | 20.4 | 2 | 7.257 | 0.001 | 6563 | 79.9 | |
| Aroclor-1232 | 3 | 7.645 | -0.013 | 6646 | 33.0 | 3 | 7.844 | -0.011 | 11225 | 67.1 | |
| Aroclor-1232 | 4 | 8.568 | -0.016 | 4080 | 47.4 | 4 | 8.707 | -0.007 | 4552 | 97.9 | |
| Total CollAve (4 peaks): | | | | 30.3 | Total Col2Ave (4 peaks): | | | | 77.4 | RPD = 87* | |
| Corrected Ave (3 peaks): | | | | 24.6 | Corrected Ave (3 peaks): | | | | 70.5 | RPD = 96* | |
| Aroclor-1242 | 1 | 7.301 | 0.030 | 1315 | 11.1 | 1 | 7.257 | 0.004 | 6563 | 45.4 | |
| Aroclor-1242 | 2 | 7.645 | -0.010 | 6646 | 17.1 | 2 | 7.844 | -0.006 | 11225 | 35.0 | |
| Aroclor-1242 | 3 | 8.400 | -0.007 | 5665 | 49.2 | 3 | 9.142 | -0.011 | 6637 | 66.1 | |
| Aroclor-1242 | 4 | 8.568 | -0.013 | 4080 | 23.4 | 4 | 9.536 | -0.042 | 9962 | 74.8 | |
| Total CollAve (4 peaks): | | | | 25.2 | Total Col2Ave (4 peaks): | | | | 55.3 | RPD = 75* | |
| Corrected Ave (3 peaks): | | | | 17.2 | Corrected Ave (3 peaks): | | | | 48.8 | RPD = 96* | |
| Aroclor-1248 | 1 | 8.400 | -0.006 | 5665 | 29.3 | 1 | 8.301 | -0.002 | 6183 | 41.4 | |
| Aroclor-1248 | 2 | 8.568 | -0.012 | 4080 | 16.5 | 2 | 8.707 | -0.003 | 4552 | 28.3 | |
| Aroclor-1248 | 3 | 8.988 | -0.010 | 15707 | 33.3 | 3 | 9.142 | -0.010 | 6637 | 33.8 | |
| Aroclor-1248 | 4 | 9.289 | -0.004 | 21188 | 90.6 | 4 | 9.536 | -0.040 | 9962 | 41.0 | |
| Total CollAve (4 peaks): | | | | 42.4 | Total Col2Ave (4 peaks): | | | | 36.1 | RPD = 16 | |
| Corrected Ave (3 peaks): | | | | 26.4 | Corrected Ave (3 peaks): | | | | 34.4 | RPD = 26 | |
| Aroclor-1254 | 1 | 9.289 | -0.010 | 21188 | 53.7 | 1 | 9.440 | -0.004 | 17474 | 72.9 | |
| Aroclor-1254 | 2 | 9.365 | -0.013 | 7326 | 43.5 | 2 | 9.958 | -0.005 | 7766 | 40.1 | |
| Aroclor-1254 | 3 | 9.660 | -0.009 | 12542 | 49.6 | 3 | 10.110 | -0.005 | 33010 | 78.1 | |
| Aroclor-1254 | 4 | 9.790 | -0.018 | 28972 | 58.5 | 4 | 10.361 | -0.003 | 42751 | 101.2 | |
| Aroclor-1254 | 5 | 10.112 | -0.065 | 45772 | 142.2 | 5 | 10.556 | -0.006 | 42501 | 180.6 | |
| Total CollAve (5 peaks): | | | | 69.5 | Total Col2Ave (5 peaks): | | | | 94.6 | RPD = 31 | |
| Corrected Ave (4 peaks): | | | | 51.4 | Corrected Ave (4 peaks): | | | | 73.1 | RPD = 35 | |
| Aroclor-1260 | 1 | 11.034 | -0.009 | 25360 | 89.7 | 1 | 11.646 | -0.003 | 27068 | 89.6 | |
| Aroclor-1260 | 2 | 11.348 | -0.012 | 21166 | 72.8 | 2 | 11.907 | -0.005 | 64708 | 84.7 | |
| Aroclor-1260 | 3 | 11.720 | -0.014 | 64821 | 84.7 | 3 | 12.426 | -0.005 | 22113 | 116.1 | |
| Aroclor-1260 | 4 | 12.122 | -0.017 | 34021 | 86.0 | 4 | 12.490 | -0.007 | 43195 | 87.4 | |
| Aroclor-1260 | 5 | 12.235 | -0.009 | 14303 | 83.0 | NS | --- | | | ---- | |
| Total CollAve (5 peaks): | | | | 83.2 | Total Col2Ave (4 peaks): | | | | 94.4 | RPD = 13 | |
| Corrected Ave (4 peaks): | | | | 81.6 | Corrected Ave (3 peaks): | | | | 87.2 | RPD = 7 | |
| Aroclor-1262 | 1 | 10.810 | -0.022 | 59373 | 291.2 | 1 | 11.191 | -0.009 | 25291 | 61.7 | |
| Aroclor-1262 | 2 | 12.235 | -0.011 | 14303 | 44.4 | 2 | 11.646 | -0.007 | 27068 | 77.7 | |
| Aroclor-1262 | 3 | 12.308 | -0.013 | 17317 | 49.6 | 3 | 12.426 | -0.009 | 22113 | 59.6 | |
| Aroclor-1262 | 4 | 12.974 | -0.015 | 17661 | 55.5 | 4 | 12.490 | -0.014 | 43195 | 72.7 | |
| Total CollAve (4 peaks): | | | | 110.2 | Total Col2Ave (4 peaks): | | | | 67.9 | RPD = 47* | |
| Corrected Ave (3 peaks): | | | | 49.8 | Corrected Ave (3 peaks): | | | | 64.7 | RPD = 26 | |
| Aroclor-1268 | 1 | 12.235 | -0.010 | 14303 | 17.2 | 1 | 12.426 | -0.008 | 22113 | 22.6 | |
| Aroclor-1268 | 2 | 12.308 | -0.010 | 17317 | 20.8 | 2 | 12.490 | -0.012 | 43195 | 41.5 | |
| Aroclor-1268 | 3 | 12.712 | 0.013 | 8399 | 12.2 | 3 | 12.888 | -0.005 | 1512 | 1.7 | |
| Aroclor-1268 | 4 | 13.479 | -0.010 | 3962 | 1.9 | 4 | 13.701 | -0.008 | 8880 | 3.3 | |
| Total CollAve (4 peaks): | | | | 13.0 | Total Col2Ave (4 peaks): | | | | 17.3 | RPD = 28 | |

Corrected Ave (3 peaks): 10.4 Corrected Ave (3 peaks): 9.2 RPD = 12

Total PCB Area Col1 (5.909 - 13.792) = 784150 Col1 Total PCB = 0.2 ppm*
Total PCB Area Col2 (5.784 - 14.017) = 757376 Col2 Total PCB = 0.2 ppm*

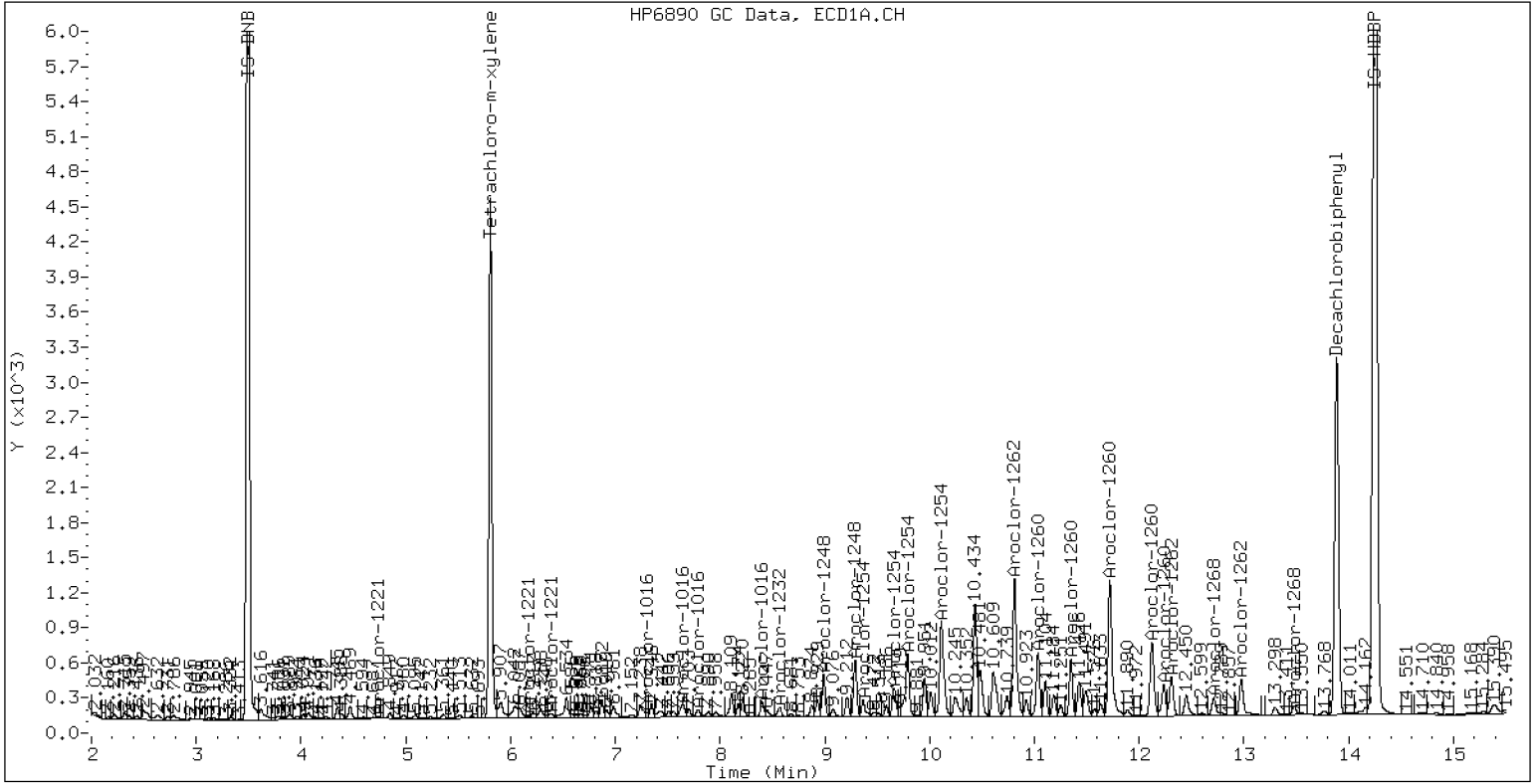
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 BLA0559-SRM1

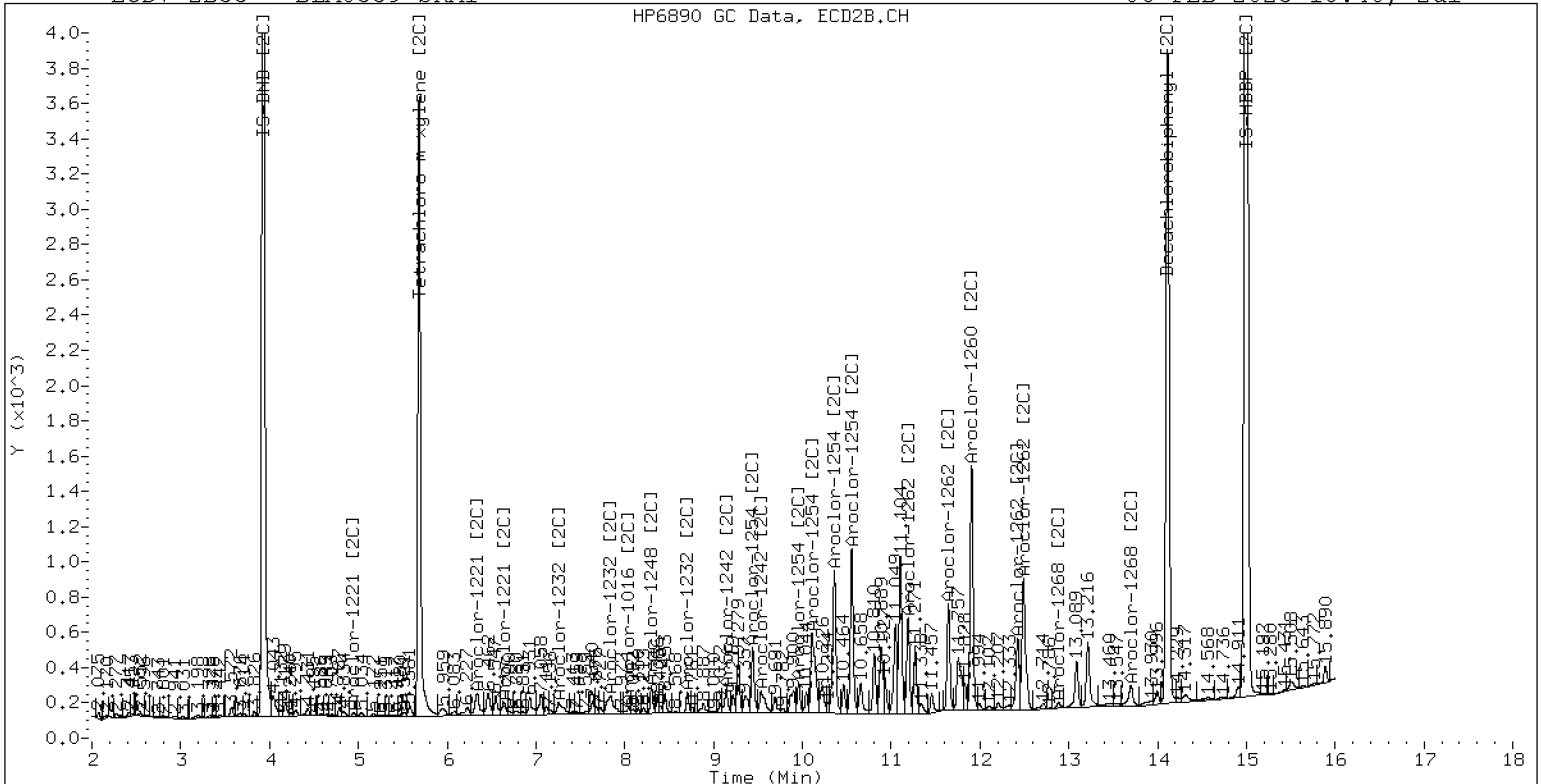
06-FEB-2023 18:40, 2u1



ZB-5 Manual Integration: NO

ECD7-ZB35 BIA0559-SRM1

06-FEB-2023 18:40, 2u1



ZB-35 Manual Integration: NO



INITIAL CALIBRATION DATA
EPA 8082A

| | | | |
|-------------------|---------------------------|-------------|-----------------|
| Laboratory: | Analytical Resources, LLC | SDG: | 23A0180 |
| Client: | Anchor QEA, LLC | Project: | AOC5 MR Phase 1 |
| Calibration: | GA00061 | Instrument: | ECD7 |
| Calibration Date: | 01/24/2023 | Column (1): | ZB5 |

| COMPOUND | Mean RRF | RRF RSD | Linear COD | Quad COD | Limit Type & Limit | Q |
|------------------|--------------|---------|------------|----------|--------------------|---|
| Aroclor 1016 | 0.0506755 | 5.9 | | | RSD (20) | |
| Aroclor-1016 (1) | 2.972773E-02 | 7.8 | | | RSD (20) | |
| Aroclor-1016 (2) | 9.850169E-02 | 5.1 | | | RSD (20) | |
| Aroclor-1016 (3) | 4.531932E-02 | 11.5 | | | RSD (20) | |
| Aroclor-1016 (4) | 2.915325E-02 | 6.0 | | | RSD (20) | |
| Aroclor 1221 | | 0.0 | | | RSD (20) | |
| Aroclor-1221 (1) | | 0.0 | | | RSD (20) | |
| Aroclor-1221 (2) | | 0.0 | | | RSD (20) | |
| Aroclor-1221 (3) | | 0.0 | | | RSD (20) | |
| Aroclor 1232 | | 0.0 | | | RSD (20) | |
| Aroclor-1232 (1) | | 0.0 | | | RSD (20) | |
| Aroclor-1232 (2) | | 0.0 | | | RSD (20) | |
| Aroclor-1232 (3) | | 0.0 | | | RSD (20) | |
| Aroclor-1232 (4) | | 0.0 | | | RSD (20) | |
| Aroclor 1242 | | 0.0 | | | RSD (20) | |
| Aroclor-1242 (1) | | 0.0 | | | RSD (20) | |
| Aroclor-1242 (2) | | 0.0 | | | RSD (20) | |
| Aroclor-1242 (3) | | 0.0 | | | RSD (20) | |
| Aroclor-1242 (4) | | 0.0 | | | RSD (20) | |
| Aroclor 1248 | | 0.0 | | | RSD (20) | |
| Aroclor-1248 (1) | | 0.0 | | | RSD (20) | |
| Aroclor-1248 (2) | | 0.0 | | | RSD (20) | |
| Aroclor-1248 (3) | | 0.0 | | | RSD (20) | |
| Aroclor-1248 (4) | | 0.0 | | | RSD (20) | |
| Aroclor 1254 | | 0.0 | | | RSD (20) | |
| Aroclor-1254 (1) | | 0.0 | | | RSD (20) | |
| Aroclor-1254 (2) | | 0.0 | | | RSD (20) | |
| Aroclor-1254 (3) | | 0.0 | | | RSD (20) | |
| Aroclor-1254 (4) | | 0.0 | | | RSD (20) | |
| Aroclor-1254 (5) | | 0.0 | | | RSD (20) | |
| Aroclor 1260 | 0.0605224 | 10.2 | | | RSD (20) | |



INITIAL CALIBRATION DATA
EPA 8082A

| | | | |
|-------------------|---------------------------|-------------|-----------------|
| Laboratory: | Analytical Resources, LLC | SDG: | 23A0180 |
| Client: | Anchor QEA, LLC | Project: | AOC5 MR Phase 1 |
| Calibration: | GA00061 | Instrument: | ECD7 |
| Calibration Date: | 01/24/2023 | Column (1): | ZB5 |

| COMPOUND | Mean RRF | RRF RSD | Linear COD | Quad COD | Limit Type & Limit | Q |
|-----------------------|--------------|---------|------------|----------|--------------------|---|
| Aroclor-1260 (1) | 0.044887 | 9.8 | | | RSD (20) | |
| Aroclor-1260 (2) | 4.614117E-02 | 10.2 | | | RSD (20) | |
| Aroclor-1260 (3) | 0.1214672 | 11.2 | | | RSD (20) | |
| Aroclor-1260 (4) | 6.275928E-02 | 9.8 | | | RSD (20) | |
| Aroclor-1260 (5) | 2.735729E-02 | 13.0 | | | RSD (20) | |
| Aroclor-1262 (1) | | 0.0 | | | RSD (20) | |
| Aroclor-1262 (2) | | 0.0 | | | RSD (20) | |
| Aroclor-1262 (3) | | 0.0 | | | RSD (20) | |
| Aroclor-1262 (4) | | 0.0 | | | RSD (20) | |
| Aroclor-1268 (1) | | 0.0 | | | RSD (20) | |
| Aroclor-1268 (2) | | 0.0 | | | RSD (20) | |
| Aroclor-1268 (3) | | 0.0 | | | RSD (20) | |
| Aroclor-1268 (4) | | 0.0 | | | RSD (20) | |
| Decachlorobiphenyl | 0.8555994 | 6.6 | | | RSD (20) | |
| Tetrachlorometaxylene | 1.130787 | 4.2 | | | RSD (20) | |



INITIAL CALIBRATION DATA
EPA 8082A

| | | | |
|-------------------|---------------------------|-------------|-----------------|
| Laboratory: | Analytical Resources, LLC | SDG: | 23A0180 |
| Client: | Anchor QEA, LLC | Project: | AOC5 MR Phase 1 |
| Calibration: | GA00061 | Instrument: | ECD7 |
| Calibration Date: | 01/24/2023 | Column (2): | ZB35 |

| Compound | Level 01 | | Level 02 | | Level 03 | | Level 04 | | Level 05 | | Level 06 | |
|----------------------------|----------|--------------|----------|--------------|----------|--------------|----------|--------------|----------|--------------|----------|--------------|
| | Conc | RRF | Conc | RRF | Conc | RRF | Conc | RRF | Conc | RRF | Conc | RRF |
| Aroclor 1016 [2C] | 250 | 5.292579E-02 | 20 | 4.676037E-02 | 50 | 5.470557E-02 | 1000 | 4.853417E-02 | 100 | 5.747899E-02 | 500 | 5.114174E-02 |
| Aroclor-1016 (1) [2C] | 250 | 4.314113E-02 | 20 | 4.423802E-02 | 50 | 4.724251E-02 | 1000 | 3.795138E-02 | 100 | 4.677646E-02 | 500 | 4.099489E-02 |
| Aroclor-1016 (2) [2C] | 250 | 9.823746E-02 | 20 | 8.511696E-02 | 50 | 9.615173E-02 | 1000 | 9.129912E-02 | 100 | 0.1041709 | 500 | 9.554107E-02 |
| Aroclor-1016 (3) [2C] | 250 | 4.028886E-02 | 20 | 2.918885E-02 | 50 | 0.0416533 | 1000 | 3.764267E-02 | 100 | 4.478001E-02 | 500 | 3.925449E-02 |
| Aroclor-1016 (4) [2C] | 250 | 3.003571E-02 | 20 | 2.849763E-02 | 50 | 3.377476E-02 | 1000 | 2.724351E-02 | 100 | 3.418865E-02 | 500 | 0.0287764 |
| Aroclor 1260 [2C] | 250 | 0.0868269 | 20 | 8.456297E-02 | 50 | 8.682148E-02 | 1000 | 7.954321E-02 | 100 | 8.639013E-02 | 500 | 7.778218E-02 |
| Aroclor-1260 (1) [2C] | 250 | 6.129497E-02 | 20 | 6.075052E-02 | 50 | 5.973709E-02 | 1000 | 5.307059E-02 | 100 | 5.911734E-02 | 500 | 5.231082E-02 |
| Aroclor-1260 (2) [2C] | 250 | 0.1536701 | 20 | 0.147481 | 50 | 0.1510614 | 1000 | 0.1380864 | 100 | 0.1518107 | 500 | 0.1339581 |
| Aroclor-1260 (3) [2C] | 250 | 3.647192E-02 | 20 | 3.683006E-02 | 50 | 3.729426E-02 | 1000 | 3.693906E-02 | 100 | 3.582131E-02 | 500 | 3.500995E-02 |
| Aroclor-1260 (4) [2C] | 250 | 0.0958705 | 20 | 9.319031E-02 | 50 | 9.919317E-02 | 1000 | 9.007677E-02 | 100 | 9.881117E-02 | 500 | 8.984983E-02 |
| Decachlorobiphenyl [2C] | 40 | 1.292085 | 3.2 | 1.209146 | 8 | 1.271224 | 160 | 1.30389 | 16 | 1.311901 | 80 | 1.229614 |
| Tetrachlorometaxylene [2C] | 40 | 1.096753 | 3.2 | 1.043423 | 8 | 1.105211 | 160 | 1.038509 | 16 | 1.153217 | 80 | 1.051873 |



INITIAL CALIBRATION DATA
EPA 8082A

| | | | |
|-------------------|---------------------------|-------------|-----------------|
| Laboratory: | Analytical Resources, LLC | SDG: | 23A0180 |
| Client: | Anchor QEA, LLC | Project: | AOC5 MR Phase 1 |
| Calibration: | GA00061 | Instrument: | ECD7 |
| Calibration Date: | 01/24/2023 | Column (2): | ZB35 |

| COMPOUND | Mean RRF | RRF RSD | Linear COD | Quad COD | Limit Type & Limit | Q |
|-----------------------|--------------|---------|------------|----------|--------------------|---|
| Aroclor 1016 [2C] | 5.192444E-02 | 7.6 | | | RSD (20) | |
| Aroclor-1016 (1) [2C] | 4.339073E-02 | 8.1 | | | RSD (20) | |
| Aroclor-1016 (2) [2C] | 9.508621E-02 | 6.8 | | | RSD (20) | |
| Aroclor-1016 (3) [2C] | 3.880136E-02 | 13.6 | | | RSD (20) | |
| Aroclor-1016 (4) [2C] | 3.041944E-02 | 9.5 | | | RSD (20) | |
| Aroclor 1221 [2C] | | 0.0 | | | RSD (20) | |
| Aroclor-1221 (1) [2C] | | 0.0 | | | RSD (20) | |
| Aroclor-1221 (2) [2C] | | 0.0 | | | RSD (20) | |
| Aroclor-1221 (3) [2C] | | 0.0 | | | RSD (20) | |
| Aroclor 1232 [2C] | | 0.0 | | | RSD (20) | |
| Aroclor-1232 (1) [2C] | | 0.0 | | | RSD (20) | |
| Aroclor-1232 (2) [2C] | | 0.0 | | | RSD (20) | |
| Aroclor-1232 (3) [2C] | | 0.0 | | | RSD (20) | |
| Aroclor-1232 (4) [2C] | | 0.0 | | | RSD (20) | |
| Aroclor 1242 [2C] | | 0.0 | | | RSD (20) | |
| Aroclor-1242 (1) [2C] | | 0.0 | | | RSD (20) | |
| Aroclor-1242 (2) [2C] | | 0.0 | | | RSD (20) | |
| Aroclor-1242 (3) [2C] | | 0.0 | | | RSD (20) | |
| Aroclor-1242 (4) [2C] | | 0.0 | | | RSD (20) | |
| Aroclor 1248 [2C] | | 0.0 | | | RSD (20) | |
| Aroclor-1248 (1) [2C] | | 0.0 | | | RSD (20) | |
| Aroclor-1248 (2) [2C] | | 0.0 | | | RSD (20) | |
| Aroclor-1248 (3) [2C] | | 0.0 | | | RSD (20) | |
| Aroclor-1248 (4) [2C] | | 0.0 | | | RSD (20) | |
| Aroclor 1254 [2C] | | 0.0 | | | RSD (20) | |
| Aroclor-1254 (1) [2C] | | 0.0 | | | RSD (20) | |
| Aroclor-1254 (2) [2C] | | 0.0 | | | RSD (20) | |
| Aroclor-1254 (3) [2C] | | 0.0 | | | RSD (20) | |
| Aroclor-1254 (4) [2C] | | 0.0 | | | RSD (20) | |
| Aroclor-1254 (5) [2C] | | 0.0 | | | RSD (20) | |
| Aroclor 1260 [2C] | 8.365448E-02 | 4.8 | | | RSD (20) | |



INITIAL CALIBRATION DATA
EPA 8082A

| | | | |
|-------------------|---------------------------|-------------|-----------------|
| Laboratory: | Analytical Resources, LLC | SDG: | 23A0180 |
| Client: | Anchor QEA, LLC | Project: | AOC5 MR Phase 1 |
| Calibration: | GA00061 | Instrument: | ECD7 |
| Calibration Date: | 01/24/2023 | Column (2): | ZB35 |

| COMPOUND | Mean RRF | RRF RSD | Linear COD | Quad COD | Limit Type & Limit | Q |
|----------------------------|--------------|---------|------------|----------|--------------------|---|
| Aroclor-1260 (1) [2C] | 5.771356E-02 | 6.9 | | | RSD (20) | |
| Aroclor-1260 (2) [2C] | 0.1460113 | 5.5 | | | RSD (20) | |
| Aroclor-1260 (3) [2C] | 3.639443E-02 | 2.3 | | | RSD (20) | |
| Aroclor-1260 (4) [2C] | 9.449863E-02 | 4.4 | | | RSD (20) | |
| Aroclor-1262 (1) [2C] | | 0.0 | | | RSD (20) | |
| Aroclor-1262 (2) [2C] | | 0.0 | | | RSD (20) | |
| Aroclor-1262 (3) [2C] | | 0.0 | | | RSD (20) | |
| Aroclor-1262 (4) [2C] | | 0.0 | | | RSD (20) | |
| Aroclor-1268 (1) [2C] | | 0.0 | | | RSD (20) | |
| Aroclor-1268 (2) [2C] | | 0.0 | | | RSD (20) | |
| Aroclor-1268 (3) [2C] | | 0.0 | | | RSD (20) | |
| Aroclor-1268 (4) [2C] | | 0.0 | | | RSD (20) | |
| Decachlorobiphenyl [2C] | 1.269643 | 3.3 | | | RSD (20) | |
| Tetrachlorometaxylene [2C] | 1.081498 | 4.2 | | | RSD (20) | |



ANALYSIS SEQUENCE

SLA0281

Instrument: ECD7
Calibration ID: GA00061

Printed: 1/26/2023 11:51:52AM

| Lab Number | Analysis | Container | Order | Position | STD ID | ISTD ID | Client | Comments |
|--------------|----------|-----------|-------|----------|---------|---------|--------|----------|
| SLA0281-CAL1 | QC | | 1 | | L000856 | K006953 | | |
| SLA0281-CAL2 | QC | | 2 | | L000859 | K006953 | | |
| SLA0281-CAL3 | QC | | 3 | | L000858 | K006953 | | |
| SLA0281-CAL4 | QC | | 4 | | L000731 | K006953 | | |
| SLA0281-CAL5 | QC | | 5 | | L000857 | K006953 | | |
| SLA0281-CAL6 | QC | | 6 | | L000855 | K006953 | | |
| SLA0281-CAL7 | QC | | 7 | | L000860 | K006953 | | |
| SLA0281-CAL8 | QC | | 8 | | L000861 | K006953 | | |
| SLA0281-CAL9 | QC | | 9 | | L000862 | K006953 | | |
| SLA0281-CALA | QC | | 10 | | L000863 | K006953 | | |
| SLA0281-CALB | QC | | 11 | | L000864 | K006953 | | |
| SLA0281-SCV1 | QC | | 12 | | K007655 | K006953 | | |
| SLA0281-SCV2 | QC | | 13 | | K007656 | K006953 | | |
| SLA0281-SCV3 | QC | | 14 | | K007657 | K006953 | | |
| SLA0281-SCV4 | QC | | 15 | | K007658 | K006953 | | |
| SLA0281-SCV5 | QC | | 16 | | K007659 | K006953 | | |
| SLA0281-SCV6 | QC | | 17 | | K007660 | K006953 | | |

Samples Loaded By _____ Date _____

Data Processed By _____ Date _____

GC LOG SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230124.b

| | Inject | Date/Time | Filename | DF | LabID | ClientID |
|----|-------------|-----------|----------------|----|---------|----------|
| 1 | 24-JAN-2023 | 15:39 | 01242312ECD7.D | 1 | IB | |
| 2 | 24-JAN-2023 | 16:00 | 01242313ECD7.D | 1 | 0.25PPM | AR1660 |
| 3 | 24-JAN-2023 | 16:21 | 01242314ECD7.D | 1 | 0.02PPM | AR1660 |
| 4 | 24-JAN-2023 | 16:42 | 01242315ECD7.D | 1 | 0.05PPM | AR1660 |
| 5 | 24-JAN-2023 | 17:03 | 01242316ECD7.D | 1 | 1.0PPM | AR1660 |
| 6 | 24-JAN-2023 | 17:24 | 01242317ECD7.D | 1 | 0.1PPM | AR1660 |
| 7 | 24-JAN-2023 | 17:45 | 01242318ECD7.D | 1 | 0.5PPM | AR1660 |
| 8 | 24-JAN-2023 | 18:06 | 01242319ECD7.D | 1 | 0.25PPM | 1242 |
| 9 | 24-JAN-2023 | 18:27 | 01242320ECD7.D | 1 | 0.25PPM | 1248 |
| 10 | 24-JAN-2023 | 18:48 | 01242321ECD7.D | 1 | 0.25PPM | 1254 |
| 11 | 24-JAN-2023 | 19:09 | 01242322ECD7.D | 1 | 0.25PPM | 2162 |
| 12 | 24-JAN-2023 | 19:30 | 01242323ECD7.D | 1 | 0.25PPM | 3268 |
| 13 | 24-JAN-2023 | 19:51 | 01242324ECD7.D | 1 | AR1660 | SCV |
| 14 | 24-JAN-2023 | 20:12 | 01242325ECD7.D | 1 | AR1242 | SCV |
| 15 | 24-JAN-2023 | 20:33 | 01242326ECD7.D | 1 | AR1248 | SCV |
| 16 | 24-JAN-2023 | 20:54 | 01242327ECD7.D | 1 | AR1254 | SCV |
| 17 | 24-JAN-2023 | 21:15 | 01242328ECD7.D | 1 | AR2162 | SCV |
| 18 | 24-JAN-2023 | 21:36 | 01242329ECD7.D | 1 | AR3268 | SCV |
| 19 | 24-JAN-2023 | 21:57 | 01242330ECD7.D | 1 | DDTS | |
| 20 | 24-JAN-2023 | 22:18 | 01242331ECD7.D | 1 | DDT | BD |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230124.b

ARI Job No.: IB Method: PCB.m Instrument: ecd7.i Date: 24-JAN-2023

| Time | Filename | LabID | ClientId | DF | Manually Integrated Compounds |
|------|----------------|---------|----------|----|-------------------------------|
| 1539 | 01242312ECD7.D | IB | | 1 | NO MANUAL INTEGRATION |
| 1600 | 01242313ECD7.D | 0.25PPM | AR1660 | 1 | NO MANUAL INTEGRATION |
| 1621 | 01242314ECD7.D | 0.02PPM | AR1660 | 1 | NO MANUAL INTEGRATION |
| 1642 | 01242315ECD7.D | 0.05PPM | AR1660 | 1 | NO MANUAL INTEGRATION |
| 1703 | 01242316ECD7.D | 1.0PPM | AR1660 | 1 | NO MANUAL INTEGRATION |
| 1724 | 01242317ECD7.D | 0.1PPM | AR1660 | 1 | NO MANUAL INTEGRATION |
| 1745 | 01242318ECD7.D | 0.5PPM | AR1660 | 1 | NO MANUAL INTEGRATION |
| 1806 | 01242319ECD7.D | 0.25PPM | 1242 | 1 | NO MANUAL INTEGRATION |
| 1827 | 01242320ECD7.D | 0.25PPM | 1248 | 1 | NO MANUAL INTEGRATION |
| 1848 | 01242321ECD7.D | 0.25PPM | 1254 | 1 | NO MANUAL INTEGRATION |
| 1909 | 01242322ECD7.D | 0.25PPM | 2162 | 1 | NO MANUAL INTEGRATION |
| 1930 | 01242323ECD7.D | 0.25PPM | 3268 | 1 | NO MANUAL INTEGRATION |
| 1951 | 01242324ECD7.D | AR1660 | SCV | 1 | NO MANUAL INTEGRATION |
| 2012 | 01242325ECD7.D | AR1242 | SCV | 1 | NO MANUAL INTEGRATION |
| 2033 | 01242326ECD7.D | AR1248 | SCV | 1 | NO MANUAL INTEGRATION |
| 2054 | 01242327ECD7.D | AR1254 | SCV | 1 | NO MANUAL INTEGRATION |
| 2115 | 01242328ECD7.D | AR2162 | SCV | 1 | NO MANUAL INTEGRATION |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230124.b

| Time | Filename | LabID | ClientId | DF | Manually Integrated Compounds |
|------|----------------|--------|----------|----|-------------------------------|
| 2136 | 01242329ECD7.D | AR3268 | SCV | 1 | NO MANUAL INTEGRATION |
| 2157 | 01242330ECD7.D | DDTS | | 1 | NO MANUAL INTEGRATION |
| 2218 | 01242331ECD7.D | DDT | BD | 1 | NO MANUAL INTEGRATION |

Security Status Report

Date: 26-Jan-2023 11:55

| | | |
|----------------|-------------|-----------------------------|
| 01242301ECD7.D | Data Locked | richardl, 25-Jan-2023 12:44 |
| 01242302ECD7.D | Data Locked | richardl, 25-Jan-2023 12:44 |
| 01242303ECD7.D | Data Locked | richardl, 25-Jan-2023 12:44 |
| 01242304ECD7.D | Data Locked | richardl, 25-Jan-2023 12:44 |
| 01242305ECD7.D | Data Locked | richardl, 25-Jan-2023 12:44 |
| 01242306ECD7.D | Data Locked | richardl, 25-Jan-2023 12:44 |
| 01242307ECD7.D | Data Locked | richardl, 25-Jan-2023 12:44 |
| 01242308ECD7.D | Data Locked | richardl, 25-Jan-2023 12:44 |
| 01242309ECD7.D | Data Locked | richardl, 25-Jan-2023 12:44 |
| 01242310ECD7.D | Data Locked | richardl, 25-Jan-2023 12:44 |
| 01242311ECD7.D | Data Locked | richardl, 25-Jan-2023 12:44 |
| 01242312ECD7.D | Data Locked | richardl, 25-Jan-2023 12:44 |
| 01242313ECD7.D | Data Locked | richardl, 25-Jan-2023 12:44 |
| 01242314ECD7.D | Data Locked | richardl, 25-Jan-2023 12:44 |
| 01242315ECD7.D | Data Locked | richardl, 25-Jan-2023 12:44 |
| 01242316ECD7.D | Data Locked | richardl, 25-Jan-2023 12:44 |
| 01242317ECD7.D | Data Locked | richardl, 25-Jan-2023 12:44 |
| 01242318ECD7.D | Data Locked | richardl, 25-Jan-2023 12:44 |
| 01242319ECD7.D | Data Locked | richardl, 25-Jan-2023 12:44 |
| 01242320ECD7.D | Data Locked | richardl, 25-Jan-2023 12:44 |
| 01242321ECD7.D | Data Locked | richardl, 25-Jan-2023 12:44 |
| 01242322ECD7.D | Data Locked | richardl, 25-Jan-2023 12:44 |
| 01242323ECD7.D | Data Locked | richardl, 25-Jan-2023 12:44 |
| 01242324ECD7.D | Data Locked | richardl, 25-Jan-2023 12:44 |
| 01242325ECD7.D | Data Locked | richardl, 25-Jan-2023 12:44 |
| 01242326ECD7.D | Data Locked | richardl, 25-Jan-2023 12:44 |
| 01242327ECD7.D | Data Locked | richardl, 25-Jan-2023 12:44 |
| 01242328ECD7.D | Data Locked | richardl, 25-Jan-2023 12:44 |
| 01242329ECD7.D | Data Locked | richardl, 25-Jan-2023 12:44 |
| 01242330ECD7.D | Data Locked | richardl, 25-Jan-2023 12:44 |
| 01242331ECD7.D | Data Locked | richardl, 25-Jan-2023 12:44 |

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-JAN-2023 16:00
 End Cal Date : 24-JAN-2023 21:57
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.14
 Integrator : HP Genie
 Method file : \\target\share\chem4\ecd7.i\230124.b\PCB.m
 Last Edit : 25-Jan-2023 10:02 JoshuaR
 Curve Type : Average

Calibration File Names:

Level 1: \\target\share\chem4\ecd7.i\230124.b\01242314ECD7.D
 Level 2: \\target\share\chem4\ecd7.i\230124.b\01242315ECD7.D
 Level 3: \\target\share\chem4\ecd7.i\230124.b\01242317ECD7.D
 Level 4: \\target\share\chem4\ecd7.i\230124.b\01242313ECD7.D
 Level 5: \\target\share\chem4\ecd7.i\230124.b\01242318ECD7.D
 Level 6: \\target\share\chem4\ecd7.i\230124.b\01242316ECD7.D
 Level 7: \\target\share\chem4\ecd7.i\230124.b\01242323ECD7.D
 Level 8: \\target\share\chem4\ecd7.i\230124.b\01242330ECD7.D

| Compound | 20.000 Level 1 | 50.000 Level 2 | 100.000 Level 3 | 250.000 Level 4 | 500.000 Level 5 | 1000.000 Level 6 | RRF | % RSD |
|-------------------|-------------------|-------------------|--------------------|--------------------|--------------------|---------------------|---------|-------|
| 2 Aroclor-1221(1) | 0.00591 | 0.000e+00 | | | | | 0.00591 | 0.000 |
| (2) | 0.01209 | | | | | | 0.01209 | 0.000 |
| (3) | 0.02807 | | | | | | 0.02807 | 0.000 |
| 3 Aroclor-1242(1) | 0.02450 | | | | | | 0.02450 | 0.000 |

| | | | | | | | | | |
|-------------------|---------|-------|-------|-------|-------|-------|-------|---------|-------|
| (2) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | 0.08017 | +++++ | | | | | | 0.08017 | 0.000 |
| (3) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | 0.02382 | +++++ | | | | | | 0.02382 | 0.000 |
| (4) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | 0.03598 | +++++ | | | | | | 0.03598 | 0.000 |
| 4 Aroclor-1232(1) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | 0.00369 | +++++ | | | | | | 0.00369 | 0.000 |

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-JAN-2023 16:00
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 Quant Method : ISTD
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 Target Version : 4.14
 Integrator : HP Genie
 Method file : \\target\share\chem4\ecd7.i\230124.b\PCB.m
 Last Edit : 25-Jan-2023 10:02 JoshuaR
 Curve Type : Average

| Compound | 20.000 Level 1 | 50.000 Level 2 | 100.000 Level 3 | 250.000 Level 4 | 500.000 Level 5 | 1000.000 Level 6 | RRF | % RSD |
|-------------------|-------------------|-------------------|--------------------|--------------------|--------------------|---------------------|---------|--------|
| (2) | 0.00832 | 0.000e+00 | | | | | 0.00832 | 0.000 |
| (3) | 0.04160 | | | | | | 0.04160 | 0.000 |
| (4) | 0.01781 | | | | | | 0.01781 | 0.000 |
| 7 Aroclor-1016(1) | 0.02947 | 0.03102 | 0.03310 | 0.03018 | 0.02824 | 0.02635 | 0.02973 | 7.802 |
| (2) | 0.09270 | 0.09812 | 0.10598 | 0.10203 | 0.09861 | 0.09356 | 0.09850 | 5.108 |
| (3) | 0.04878 | 0.04900 | 0.05127 | 0.04400 | 0.04091 | 0.03796 | 0.04532 | 11.523 |
| (4) | 0.02676 | 0.02802 | 0.03162 | 0.03050 | 0.02939 | 0.02864 | 0.02915 | 5.988 |
| 6 Aroclor-1248(1) | | | | | | | | |

| | | | | | | | | |
|-----|---------|-------|--|--|--|--|---------|-------|
| | 0.04002 | +++++ | | | | | 0.04002 | 0.000 |
| (2) | 0.05105 | +++++ | | | | | 0.05105 | 0.000 |
| (3) | 0.09765 | +++++ | | | | | 0.09765 | 0.000 |
| (4) | 0.04833 | +++++ | | | | | 0.04833 | 0.000 |

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-JAN-2023 16:00
 End Cal Date : 24-JAN-2023 21:57
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.14
 Integrator : HP Genie
 Method file : \\target\share\chem4\ecd7.i\230124.b\PCB.m
 Last Edit : 25-Jan-2023 10:02 JoshuaR
 Curve Type : Average

| Compound | 20.000 Level 1 | 50.000 Level 2 | 100.000 Level 3 | 250.000 Level 4 | 500.000 Level 5 | 1000.000 Level 6 | RRF | % RSD |
|-------------------|-------------------|-------------------|--------------------|--------------------|--------------------|---------------------|---------|--------|
| 8 Aroclor-1254(1) | 0.08153 | 0.000e+00 | | | | | 0.08153 | 0.000 |
| (2) | 0.03481 | | | | | | 0.03481 | 0.000 |
| (3) | 0.05224 | | | | | | 0.05224 | 0.000 |
| (4) | 0.10237 | | | | | | 0.10237 | 0.000 |
| (5) | 0.06657 | | | | | | 0.06657 | 0.000 |
| 9 Aroclor-1260(1) | 0.04727 | 0.04543 | 0.04428 | 0.05181 | 0.04013 | 0.04040 | 0.04489 | 9.818 |
| (2) | 0.04940 | 0.04636 | 0.04450 | 0.05350 | 0.04100 | 0.04208 | 0.04614 | 10.182 |
| (3) | 0.13737 | 0.12829 | 0.11740 | 0.13317 | 0.10468 | 0.10790 | | |

| | | | | | | | | |
|---------------------|---------|---------|---------|---------|---------|---------|---------|--------|
| | +++++ | +++++ | | | | | 0.12147 | 11.161 |
| (4) | 0.07198 | 0.06638 | 0.05997 | 0.06473 | 0.05485 | 0.05864 | | |
| | +++++ | +++++ | | | | | 0.06276 | 9.803 |
| (5) | 0.03296 | 0.02981 | 0.02640 | 0.02723 | 0.02328 | 0.02447 | | |
| | +++++ | +++++ | | | | | 0.02736 | 13.015 |
| 10 Aroclor-1262 (1) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | 0.03235 | +++++ | | | | | 0.03235 | 0.000 |

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-JAN-2023 16:00
 End Cal Date : 24-JAN-2023 21:57
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.14
 Integrator : HP Genie
 Method file : \\target\share\chem4\ecd7.i\230124.b\PCB.m
 Last Edit : 25-Jan-2023 10:02 JoshuaR
 Curve Type : Average

| Compound | 20.000 Level 1 | 50.000 Level 2 | 100.000 Level 3 | 250.000 Level 4 | 500.000 Level 5 | 1000.000 Level 6 | RRF | % RSD |
|--------------------|--------------------|----------------------|--------------------|--------------------|--------------------|---------------------|---------|-------|
| | 250.000 Level 7 | 0.000e+00 Level 8 | | | | | | |
| (2) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 0.05106 | 0.000 |
| | 0.05106 | +++++ | | | | | | |
| (3) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 0.05544 | 0.000 |
| | 0.05544 | +++++ | | | | | | |
| (4) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 0.05052 | 0.000 |
| | 0.05052 | +++++ | | | | | | |
| 11 Aroclor-1268(1) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 0.13216 | 0.000 |
| | 0.13216 | +++++ | | | | | | |
| (2) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 0.13180 | 0.000 |
| | 0.13180 | +++++ | | | | | | |
| (3) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 0.10919 | 0.000 |
| | 0.10919 | +++++ | | | | | | |
| (4) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 0.32374 | 0.000 |
| | 0.32374 | +++++ | | | | | | |
| 42 2,4-DDE | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |

| | | | | | | | | |
|------------|-------|-------|-------|-------|-------|-------|------|-------|
| | +++++ | 904 | | | | | 904 | 0.000 |
| ----- | | | | | | | | |
| 43 2,4-DDD | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | +++++ | 1034 | | | | | 1034 | 0.000 |
| ----- | | | | | | | | |
| 44 2,4-DDT | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | +++++ | 2557 | | | | | 2557 | 0.000 |
| ----- | | | | | | | | |
| 46 4,4-DDE | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | +++++ | 1539 | | | | | 1539 | 0.000 |
| ----- | | | | | | | | |
| ----- | | | | | | | | |

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-JAN-2023 16:00
 End Cal Date : 24-JAN-2023 21:57
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.14
 Integrator : HP Genie
 Method file : \\target\share\chem4\ecd7.i\230124.b\PCB.m
 Last Edit : 25-Jan-2023 10:02 JoshuaR
 Curve Type : Average

| Compound | 20.000 Level 1 | 50.000 Level 2 | 100.000 Level 3 | 250.000 Level 4 | 500.000 Level 5 | 1000.000 Level 6 | RRF | % RSD |
|---------------------------|-------------------|-------------------|--------------------|--------------------|--------------------|---------------------|---------|-------|
| 47 4,4-DDD | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 48 4,4-DDT | +++++ | 1484 | +++++ | +++++ | +++++ | +++++ | 1484 | 0.000 |
| 49 Hexachlorobutadiene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 50 Hexachlorobenzene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| \$ 1 Tetrachloro-m-xylene | 1.10039 | 1.10217 | 1.21997 | 1.14965 | 1.11792 | 1.09461 | 1.13079 | 4.246 |
| \$ 13 Decachlorobiphenyl | 0.86442 | 0.90302 | 0.93081 | 0.84813 | 0.79576 | 0.79145 | 0.85560 | 6.556 |

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-JAN-2023 16:00
 End Cal Date : 24-JAN-2023 21:57
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.14
 Integrator : HP Genie
 Method file : \\target\share\chem4\ecd7.i\230124.b\PCB.m\PCB2.m
 Last Edit : 25-Jan-2023 09:58 JoshuaR
 Curve Type : Average

Calibration File Names:

Level 1: \\target\share\chem4\ecd7.i\230124.b\230124.b\01242314ECD7.D
 Level 2: \\target\share\chem4\ecd7.i\230124.b\230124.b\01242315ECD7.D
 Level 3: \\target\share\chem4\ecd7.i\230124.b\230124.b\01242317ECD7.D
 Level 4: \\target\share\chem4\ecd7.i\230124.b\230124.b\01242313ECD7.D
 Level 5: \\target\share\chem4\ecd7.i\230124.b\230124.b\01242318ECD7.D
 Level 6: \\target\share\chem4\ecd7.i\230124.b\230124.b\01242316ECD7.D
 Level 7: \\target\share\chem4\ecd7.i\230124.b\230124.b\01242323ECD7.D
 Level 8: \\target\share\chem4\ecd7.i\230124.b\230124.b\01242330ECD7.D

| Compound | 20.000 | 50.000 | 100.000 | 250.000 | 500.000 | 1000.000 | RRF | % RSD |
|-------------------------|---------|-----------|---------|---------|---------|----------|---------|-------|
| | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | | |
| | 250.000 | 0.000e+00 | | | | | | |
| | Level 7 | Level 8 | | | | | | |
| 1 Aroclor-1221 [2C] (1) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 0.00586 | 0.000 |
| | 0.00586 | +++++ | | | | | | |
| (2) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 0.01285 | 0.000 |
| | 0.01285 | +++++ | | | | | | |
| (3) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 0.02169 | 0.000 |
| | 0.02169 | +++++ | | | | | | |
| 4 Aroclor-1232 [2C] (1) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 0.00356 | 0.000 |
| | 0.00356 | +++++ | | | | | | |

| | | | | | | | | | |
|-------------------------|---------|-------|-------|-------|-------|-------|-------|---------|-------|
| (2) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | 0.01991 | +++++ | | | | | | 0.01991 | 0.000 |
| (3) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | 0.04054 | +++++ | | | | | | 0.04054 | 0.000 |
| (4) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | 0.01126 | +++++ | | | | | | 0.01126 | 0.000 |
| 3 Aroclor-1242 [2C] (1) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | 0.03499 | +++++ | | | | | | 0.03499 | 0.000 |

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-JAN-2023 16:00
 End Cal Date : 24-JAN-2023 21:57
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.14
 Integrator : HP Genie
 Method file : \\target\share\chem4\ecd7.i\230124.b\PCB.m\PCB2.m
 Last Edit : 25-Jan-2023 09:58 JoshuaR
 Curve Type : Average

| Compound | 20.000 Level 1 | 50.000 Level 2 | 100.000 Level 3 | 250.000 Level 4 | 500.000 Level 5 | 1000.000 Level 6 | RRF | % RSD |
|-------------------------|--------------------|----------------------|--------------------|--------------------|--------------------|---------------------|---------|-------|
| | 250.000 Level 7 | 0.000e+00 Level 8 | | | | | | |
| (2) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 0.07771 | 0.000 |
| (3) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 0.02434 | 0.000 |
| (4) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 0.03226 | 0.000 |
| 6 Aroclor-1248 [2C] (1) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 0.03616 | 0.000 |
| (2) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 0.03892 | 0.000 |
| (3) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 0.04756 | 0.000 |
| (4) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 0.05882 | 0.000 |
| 7 Aroclor-1016 [2C] (1) | 0.04424 | 0.04724 | 0.04678 | 0.04314 | 0.04099 | 0.03795 | | |

| | | | | | | | | |
|-----|---------|---------|---------|---------|---------|---------|---------|--------|
| | +++++ | +++++ | | | | | 0.04339 | 8.142 |
| (2) | 0.08512 | 0.09615 | 0.10417 | 0.09824 | 0.09554 | 0.09130 | | |
| | +++++ | +++++ | | | | | 0.09509 | 6.775 |
| (3) | 0.02919 | 0.04165 | 0.04478 | 0.04029 | 0.03925 | 0.03764 | | |
| | +++++ | +++++ | | | | | 0.03880 | 13.639 |
| (4) | 0.02850 | 0.03377 | 0.03419 | 0.03004 | 0.02878 | 0.02724 | | |
| | +++++ | +++++ | | | | | 0.03042 | 9.538 |

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-JAN-2023 16:00
 End Cal Date : 24-JAN-2023 21:57
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.14
 Integrator : HP Genie
 Method file : \\target\share\chem4\ecd7.i\230124.b\PCB.m\PCB2.m
 Last Edit : 25-Jan-2023 09:58 JoshuaR
 Curve Type : Average

| Compound | 20.000 Level 1 | 50.000 Level 2 | 100.000 Level 3 | 250.000 Level 4 | 500.000 Level 5 | 1000.000 Level 6 | RRF | % RSD |
|--------------------------|-------------------|-------------------|--------------------|--------------------|--------------------|---------------------|---------|-------|
| 8 Aroclor-1254 [2C] (1) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 0.05804 | 0.000 |
| (2) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 0.04691 | 0.000 |
| (3) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 0.10233 | 0.000 |
| (4) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 0.10233 | 0.000 |
| (5) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 0.05700 | 0.000 |
| 10 Aroclor-1262 [2C] (1) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 0.07830 | 0.000 |
| (2) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 0.06658 | 0.000 |
| (3) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |

| | | | | | | | | |
|-------------------------|---------|---------|---------|---------|---------|---------|---------|-------|
| | 0.07090 | +++++ | | | | | 0.07090 | 0.000 |
| ----- | | | | | | | | |
| (4) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | 0.11355 | +++++ | | | | | 0.11355 | 0.000 |
| ----- | | | | | | | | |
| 9 Aroclor-1260 [2C] (1) | 0.06075 | 0.05974 | 0.05912 | 0.06129 | 0.05231 | 0.05307 | | |
| | +++++ | +++++ | | | | | 0.05771 | 6.881 |
| ----- | | | | | | | | |
| (2) | 0.14748 | 0.15106 | 0.15181 | 0.15367 | 0.13396 | 0.13809 | | |
| | +++++ | +++++ | | | | | 0.14601 | 5.547 |
| ----- | | | | | | | | |
| ----- | | | | | | | | |

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-JAN-2023 16:00
 End Cal Date : 24-JAN-2023 21:57
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.14
 Integrator : HP Genie
 Method file : \\target\share\chem4\ecd7.i\230124.b\PCB.m\PCB2.m
 Last Edit : 25-Jan-2023 09:58 JoshuaR
 Curve Type : Average

| Compound | 20.000 Level 1 | 50.000 Level 2 | 100.000 Level 3 | 250.000 Level 4 | 500.000 Level 5 | 1000.000 Level 6 | RRF | % RSD |
|--------------------------|-------------------|-------------------|--------------------|--------------------|--------------------|---------------------|---------|-------|
| | 250.000 | 0.000e+00 | | | | | | |
| | Level 7 | Level 8 | | | | | | |
| (3) | 0.03683 | 0.03729 | 0.03582 | 0.03647 | 0.03501 | 0.03694 | 0.03639 | 2.314 |
| | +++++ | +++++ | | | | | | |
| (4) | 0.09319 | 0.09919 | 0.09881 | 0.09587 | 0.08985 | 0.09008 | 0.09450 | 4.373 |
| | +++++ | +++++ | | | | | | |
| 11 Aroclor-1268 [2C] (1) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 0.18682 | 0.000 |
| | 0.18682 | +++++ | | | | | 0.18682 | 0.000 |
| (2) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 0.19880 | 0.000 |
| | 0.19880 | +++++ | | | | | 0.19880 | 0.000 |
| (3) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 0.16548 | 0.000 |
| | 0.16548 | +++++ | | | | | 0.16548 | 0.000 |
| (4) | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 0.51118 | 0.000 |
| | 0.51118 | +++++ | | | | | 0.51118 | 0.000 |
| 41 2,4-DDE [2C] | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 1528 | 0.000 |
| | +++++ | 1528 | | | | | 1528 | 0.000 |
| 42 2,4-DDD [2C] | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |

| | | | | | | | | |
|-------------------------|-------|-------|-------|-------|-------|-------|------|-------|
| | +++++ | 866 | | | | | 866 | 0.000 |
| ----- | | | | | | | | |
| 44 4,4-DDE [2C] | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | +++++ | 863 | | | | | 863 | 0.000 |
| ----- | | | | | | | | |
| 45 4,4-DDD/2,4-DDT [2C] | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | +++++ | 1162 | | | | | 1162 | 0.000 |
| ----- | | | | | | | | |
| 46 4,4-DDT [2C] | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | +++++ | 1277 | | | | | 1277 | 0.000 |
| ----- | | | | | | | | |
| ----- | | | | | | | | |

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-JAN-2023 16:00
 End Cal Date : 24-JAN-2023 21:57
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.14
 Integrator : HP Genie
 Method file : \\target\share\chem4\ecd7.i\230124.b\PCB.m\PCB2.m
 Last Edit : 25-Jan-2023 09:58 JoshuaR
 Curve Type : Average

| Compound | 20.000 Level 1 | 50.000 Level 2 | 100.000 Level 3 | 250.000 Level 4 | 500.000 Level 5 | 1000.000 Level 6 | RRF | % RSD |
|--------------------------------|-------------------|-------------------|--------------------|--------------------|--------------------|---------------------|---------|-------|
| 48 Hexachlorobutadiene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 49 Hexachlorobenzene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| \$ 2 Tetrachloro-m-xylene [2C] | 1.04342 | 1.10521 | 1.15322 | 1.09675 | 1.05187 | 1.03851 | 1.08150 | 4.159 |
| \$ 13 Decachlorobiphenyl [2C] | 1.20915 | 1.27122 | 1.31190 | 1.29209 | 1.22961 | 1.30389 | 1.26964 | 3.291 |

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd7.i\230124.b\PCB.m
Batch File: \\target\share\chem4\ecd7.i\230124.b
Inst ID: ecd7.i

ID: RT01 RT02 RT03 RT04 RT05 RT06
FILENAME: 01242313ECD7 01242314ECD7 01242315ECD7 01242316ECD7 01242317ECD7 01242318ECD7
INJ. DATE: 24-JAN-2023 24-JAN-2023 24-JAN-2023 24-JAN-2023 24-JAN-2023 24-JAN-2023
INJ. TIME: 16:00 16:21 16:42 17:03 17:24 17:45

Table with 11 columns: Compound, RT01, RT02, RT03, RT04, RT05, RT06, EXPEC RT, RT WINDOW, AVG RT, STD DEV. Rows include compounds like IS-BNB, Tetrachloro-m-xylene, Aroclor-1221, Aroclor-1242, Aroclor-1232, Aroclor-1016, Aroclor-1248, Aroclor-1254, Aroclor-1260, Aroclor-1262, Aroclor-1268, Decachlorobiphenyl, IS-HBBP, 2,4-DDE, 2,4-DDD, 2,4-DDT, 4,4-DDE.

Reviewer 1 _____ Date: _____
Reviewer 2 _____ Date: _____

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd7.i\230124.b\PCB.m
 Batch File: \\target\share\chem4\ecd7.i\230124.b
 Inst ID: ecd7.i

| Compound | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | EXPEC RT | RT WINDOW | AVG RT | STD DEV |
|------------------------|-------|-------|-------|-------|-------|-------|----------|---------------|--------|---------|
| 47 4,4-DDD | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 10.281 | 10.181-10.381 | +++++ | +++++ |
| 48 4,4-DDT | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 10.758 | 10.658-10.858 | +++++ | +++++ |
| 49 Hexachlorobutadiene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 1.842 | 1.742-1.942 | +++++ | +++++ |
| 50 Hexachlorobenzene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 6.708 | 6.608-6.808 | +++++ | +++++ |

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd7.i\230124.b\PCB.m\PCB2.m
Batch File: \\target\share\chem4\ecd7.i\230124.b\230124.b
Inst ID: ecd7.i

ID: RT01 RT02 RT03 RT04 RT05 RT06
FILENAME: 01242313ECD7 01242314ECD7 01242315ECD7 01242316ECD7 01242317ECD7 01242318ECD7
INJ. DATE: 24-JAN-2023 24-JAN-2023 24-JAN-2023 24-JAN-2023 24-JAN-2023 24-JAN-2023
INJ. TIME: 16:00 16:21 16:42 17:03 17:24 17:45

Table with 11 columns: Compound, RT01, RT02, RT03, RT04, RT05, RT06, EXPEC RT, RT WINDOW, AVG RT, STD DEV. Rows include various chemical compounds like IS-BNB, Tetrachloro-m-xylene, Aroclor-1221, etc.

Reviewer 1 _____ Date: _____
Reviewer 2 _____ Date: _____

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd7.i\230124.b\PCB.m\PCB2.m
 Batch File: \\target\share\chem4\ecd7.i\230124.b\230124.b
 Inst ID: ecd7.i

| Compound | RT01 | RT02 | RT03 | RT04 | RT05 | RT06 | EXPEC RT | RT WINDOW | AVG RT | STD DEV |
|------------------------|-------|-------|-------|-------|-------|-------|----------|---------------|--------|---------|
| 46 4,4-DDT [2C] | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 11.095 | 10.995-11.195 | +++++ | +++++ |
| 48 Hexachlorobutadiene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 1.703 | 1.603-1.803 | +++++ | +++++ |
| 49 Hexachlorobenzene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | 7.178 | 7.078-7.278 | +++++ | +++++ |

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230124.b/01242312ECD7.D
Data file 2: /230124.b/230124.b/01242312ECD7.D
Method: \\target\share\chem4\ecd7.i\230124.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: IB
Client ID:
Injection Date: 24-JAN-2023 15:39
Report Date: 01/25/2023 10:53
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

| ZB5 Col | | ZB35 Col | | | ZB5 | ZB35 | RPD | Compound/Flag | |
|---------|-------|----------|--------|--------|----------|--------|------|---------------|----------------------|
| RT | Shift | Response | RT | Shift | Response | on col | | | on col |
| 5.822 | 0.013 | 272340 | 5.680 | -0.007 | 171573 | 36.5 | 36.4 | 0.1 | Tetrachloro-m-xylene |
| 13.900 | 0.008 | 252989 | 14.120 | -0.000 | 223176 | 37.3 | 38.6 | 3.4 | Decachlorobiphenyl |

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1 | | | |
|--------------------|----------------|-------------|------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 503318 | 528068 | 4.9 |
| Hexabromobiphenyl | 647433 | 634177 | -2.0 |
| Column 2 | | | |
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 336911 | 348301 | 3.4 |
| Hexabromobiphenyl | 382032 | 364259 | -4.7 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-JAN-2023
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | ZB35 Col | | | | | | |
|--------------------------|-------|--------|--------|-------|----------|--------------------------|--------|--------|------|--------|-----------|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount | |
| Aroclor-1016 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 | |
| Aroclor-1016 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 | |
| Aroclor-1016 | 3 | 7.852 | 0.064 | 162 | 0.5 | 3 | --- | | | 0.0 | |
| Aroclor-1016 | 4 | 8.431 | 0.027 | 495 | 2.6 | 4 | --- | | | 0.0 | |
| CollAve: <3 Quant Peaks | | | | | | Col2Ave: <3 Quant Peaks | | | | | |
| Aroclor-1221 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 | |
| Aroclor-1221 | 2 | --- | | | 0.0 | 2 | 6.317 | 0.019 | 1908 | 34.1 | |
| Aroclor-1221 | 3 | --- | | | 0.0 | 3 | 6.630 | 0.007 | 299 | 3.2 | |
| CollAve: <3 Quant Peaks | | | | | | Col2Ave: <3 Quant Peaks | | | | | |
| Aroclor-1232 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 | |
| Aroclor-1232 | 2 | --- | | | 0.0 | 2 | 7.208 | -0.049 | 26 | 0.3 | |
| Aroclor-1232 | 3 | --- | | | 0.0 | 3 | --- | | | 0.0 | |
| Aroclor-1232 | 4 | --- | | | 0.0 | 4 | 8.730 | 0.017 | 33 | 0.7 | |
| CollAve: <3 Quant Peaks | | | | | | Col2Ave: <3 Quant Peaks | | | | | |
| Aroclor-1242 | 1 | --- | | | 0.0 | 1 | 7.208 | -0.048 | 26 | 0.2 | |
| Aroclor-1242 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 | |
| Aroclor-1242 | 3 | 8.431 | 0.024 | 495 | 3.1 | 3 | 9.151 | -0.008 | 93 | 0.9 | |
| Aroclor-1242 | 4 | 8.630 | 0.049 | 1101 | 4.6 | 4 | --- | | | 0.0 | |
| CollAve: <3 Quant Peaks | | | | | | Col2Ave: <3 Quant Peaks | | | | | |
| Aroclor-1248 | 1 | 8.431 | 0.025 | 495 | 1.9 | 1 | --- | | | 0.0 | |
| Aroclor-1248 | 2 | 8.630 | 0.050 | 1101 | 3.3 | 2 | 8.730 | 0.018 | 33 | 0.2 | |
| Aroclor-1248 | 3 | --- | | | 0.0 | 3 | 9.151 | -0.005 | 93 | 0.4 | |
| Aroclor-1248 | 4 | --- | | | 0.0 | 4 | --- | | | 0.0 | |
| CollAve: <3 Quant Peaks | | | | | | Col2Ave: <3 Quant Peaks | | | | | |
| Aroclor-1254 | 1 | --- | | | 0.0 | 1 | 9.474 | 0.026 | 9010 | 35.7 | |
| Aroclor-1254 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 | |
| Aroclor-1254 | 3 | 9.571 | -0.099 | 114 | 0.3 | 3 | --- | | | 0.0 | |
| Aroclor-1254 | 4 | 9.770 | -0.038 | 104 | 0.2 | 4 | --- | | | 0.0 | |
| Aroclor-1254 | 5 | --- | | | 0.0 | 5 | 10.525 | -0.044 | 482 | 1.9 | |
| CollAve: <3 Quant Peaks | | | | | | Col2Ave: <3 Quant Peaks | | | | | |
| Aroclor-1260 | 1 | 11.066 | 0.023 | 262 | 0.7 | 1 | 11.703 | 0.050 | 189 | 0.7 | |
| Aroclor-1260 | 2 | --- | | | 0.0 | 2 | 11.832 | -0.086 | 97 | 0.1 | |
| Aroclor-1260 | 3 | 11.803 | 0.069 | 4470 | 4.6 | 3 | 12.414 | -0.022 | 2209 | 13.3 | |
| Aroclor-1260 | 4 | 12.089 | -0.051 | 661 | 1.3 | 4 | --- | | | 0.0 | |
| Aroclor-1260 | 5 | 12.282 | 0.038 | 5183 | 23.9 | NS | --- | | | ---- | |
| Total CollAve (4 peaks): | | | | 7.7 | | Total Col2Ave (3 peaks): | | | | 4.7 | RPD = 47* |
| Corrected Ave (3 peaks): | | | | 2.2 | | Corrected Ave: < 3 Peaks | | | | | |
| Aroclor-1262 | 1 | 10.789 | -0.043 | 941 | 3.7 | 1 | --- | | | 0.0 | |
| Aroclor-1262 | 2 | 12.282 | 0.036 | 5183 | 12.8 | 2 | 11.703 | 0.051 | 189 | 0.6 | |
| Aroclor-1262 | 3 | --- | | | 0.0 | 3 | 12.414 | -0.020 | 2209 | 6.8 | |
| Aroclor-1262 | 4 | 12.982 | -0.007 | 2811 | 7.0 | 4 | --- | | | 0.0 | |
| Total CollAve (3 peaks): | | | | 7.8 | | Col2Ave: <3 Quant Peaks | | | | | |
| Aroclor-1268 | 1 | 12.282 | 0.037 | 5183 | 4.9 | 1 | 12.414 | -0.020 | 2209 | 2.6 | |
| Aroclor-1268 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 | |
| Aroclor-1268 | 3 | 12.705 | 0.006 | 3092 | 3.6 | 3 | 12.894 | 0.001 | 724 | 1.0 | |
| Aroclor-1268 | 4 | 13.500 | 0.011 | 13310 | 5.2 | 4 | 13.708 | -0.000 | 2974 | 1.3 | |
| Total CollAve (3 peaks): | | | | 4.6 | | Total Col2Ave (3 peaks): | | | | 1.6 | RPD = 96* |
| Corrected Ave: < 3 Peaks | | | | | | Corrected Ave: < 3 Peaks | | | | | |

Total PCB Area Col1 (5.909 - 13.792) = 89790 Col1 Total PCB = 0.0 ppm*

Total PCB Area Col2 (5.787 - 14.020) = 40020 Col2 Total PCB = 0.0 ppm*

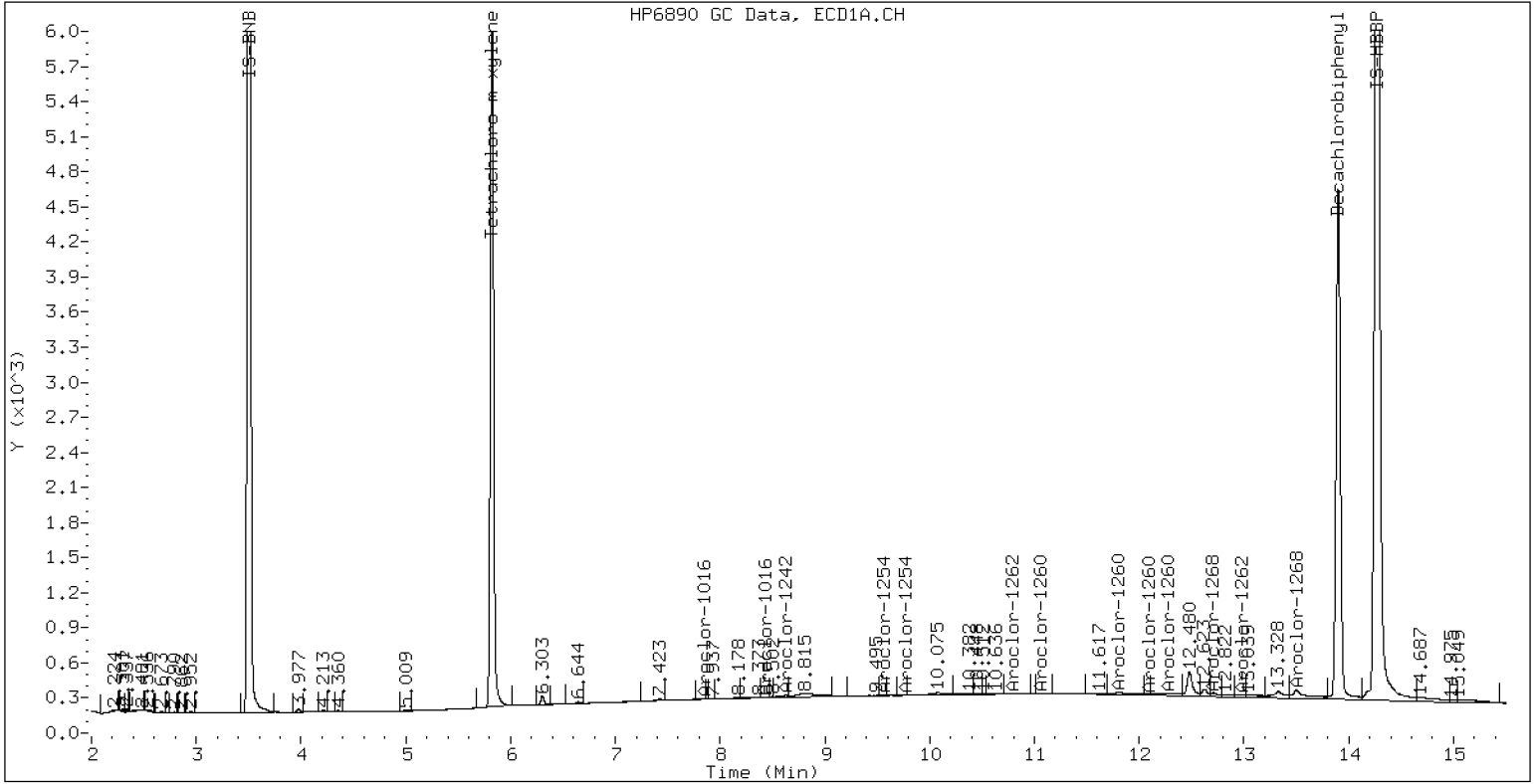
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 IB

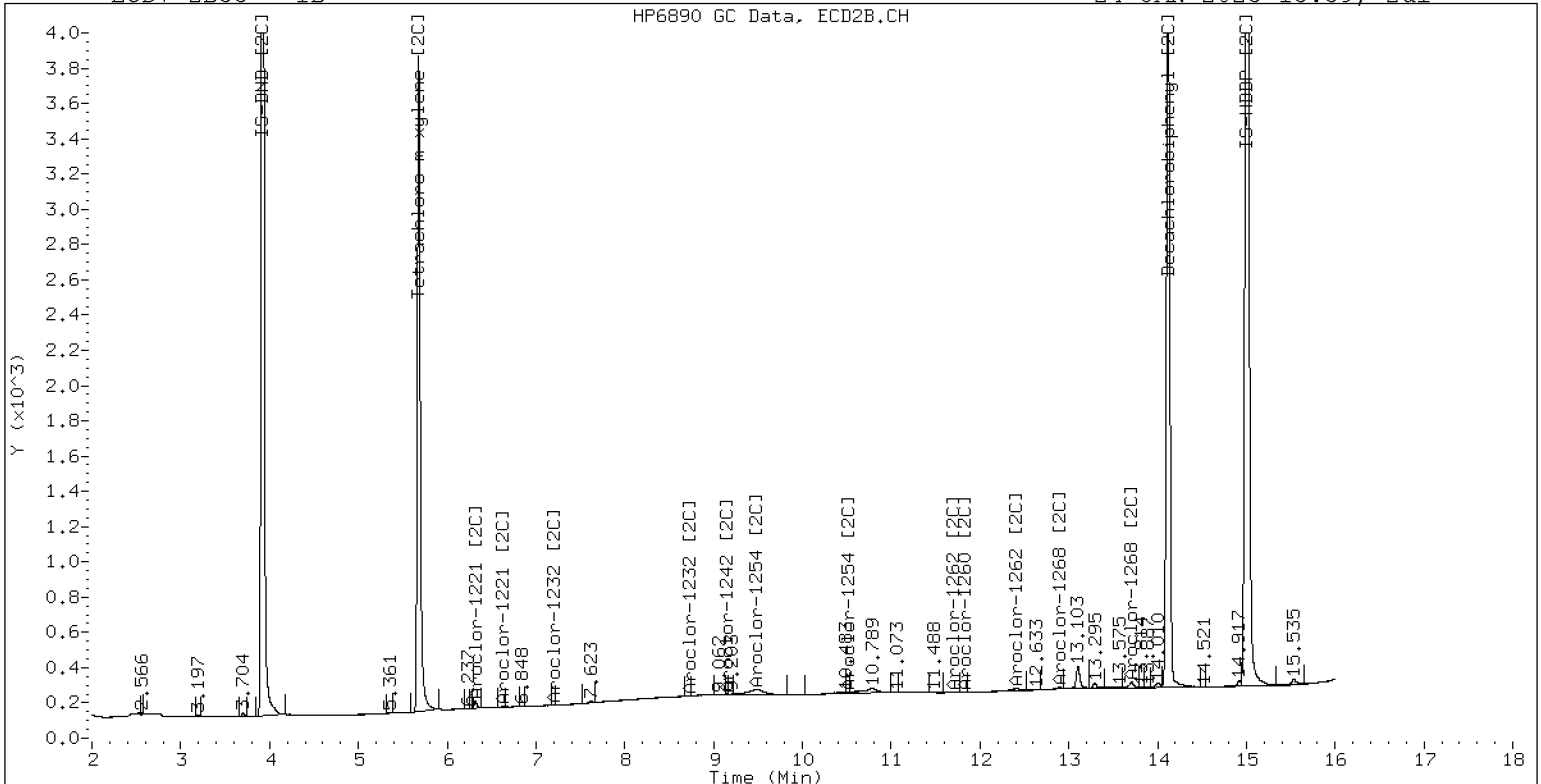
24-JAN-2023 15:39, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 IB

24-JAN-2023 15:39, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230124.b/01242313ECD7.D
Data file 2: /230124.b/230124.b/01242313ECD7.D
Method: \\target\share\chem4\ecd7.i\230124.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 0.25PPM AR1660
Client ID:
Injection Date: 24-JAN-2023 16:00
Report Date: 01/25/2023 10:53
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

| RT | ZB5 Col Shift | Response | RT | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag |
|--------|------------------|----------|--------|-------------------|----------|---------------|----------------|-----|----------------------|
| 5.810 | 0.001 | 289321 | 5.685 | -0.002 | 184754 | 40.7 | 40.6 | 0.3 | Tetrachloro-m-xylene |
| 13.894 | 0.002 | 274555 | 14.120 | 0.000 | 246809 | 39.7 | 40.7 | 2.6 | Decachlorobiphenyl |

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1 | | | |
|--------------------|----------------|-------------|-----|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 503318 | 503318 | 0.0 |
| Hexabromobiphenyl | 647433 | 647433 | 0.0 |
| Column 2 | | | |
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 336911 | 336911 | 0.0 |
| Hexabromobiphenyl | 382032 | 382032 | 0.0 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-JAN-2023
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | ZB35 Col | | | | | |
|--------------------------|-------|-------|-------|--------|----------|--------------------------|-------|-------|--------|---------------|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount |
| Aroclor-1016 | 1 | 7.272 | 0.002 | 47467 | 253.8 | 1 | 7.255 | 0.000 | 45421 | 248.6 |
| Aroclor-1016 | 2 | 7.654 | 0.004 | 160487 | 259.0 | 2 | 7.851 | 0.000 | 103429 | 258.3 |
| Aroclor-1016 | 3 | 7.791 | 0.003 | 69204 | 242.7 | 3 | 8.050 | 0.000 | 42418 | 259.6 |
| Aroclor-1016 | 4 | 8.406 | 0.003 | 47967 | 261.5 | 4 | 8.305 | 0.000 | 31623 | 246.8 |
| Total CollAve (4 peaks): | | | | 254.2 | | Total Col2Ave (4 peaks): | | | | 253.3 RPD = 0 |
| Corrected Ave (3 peaks): | | | | 251.8 | | Corrected Ave (3 peaks): | | | | 251.2 RPD = 0 |

CalAmt %D: 1.7

CalAmt %D: 1.3

| | | | | | | | | | | |
|--------------------------|---|--------|-------|--------|-------|--------------------------|--------|-------|--------|---------------|
| Aroclor-1260 | 1 | 11.047 | 0.003 | 104831 | 288.6 | 1 | 11.653 | 0.000 | 73177 | 265.5 |
| Aroclor-1260 | 2 | 11.362 | 0.002 | 108243 | 289.9 | 2 | 11.918 | 0.000 | 183459 | 263.1 |
| Aroclor-1260 | 3 | 11.738 | 0.004 | 269428 | 274.1 | 3 | 12.436 | 0.000 | 43542 | 250.5 |
| Aroclor-1260 | 4 | 12.142 | 0.002 | 130966 | 257.9 | 4 | 12.502 | 0.000 | 114455 | 253.6 |
| Aroclor-1260 | 5 | 12.246 | 0.002 | 55096 | 248.9 | NS | --- | | | ---- |
| Total CollAve (5 peaks): | | | | 271.8 | | Total Col2Ave (4 peaks): | | | | 258.2 RPD = 5 |
| Corrected Ave (4 peaks): | | | | 267.3 | | Corrected Ave (3 peaks): | | | | 255.8 RPD = 4 |

CalAmt %D: 8.7

CalAmt %D: 3.3

Total PCB Area Coll (5.909 - 13.792) = 2930230 Coll Total PCB = 0.5 ppm*

Total PCB Area Col2 (5.787 - 14.020) = 1777050 Col2 Total PCB = 0.5 ppm*

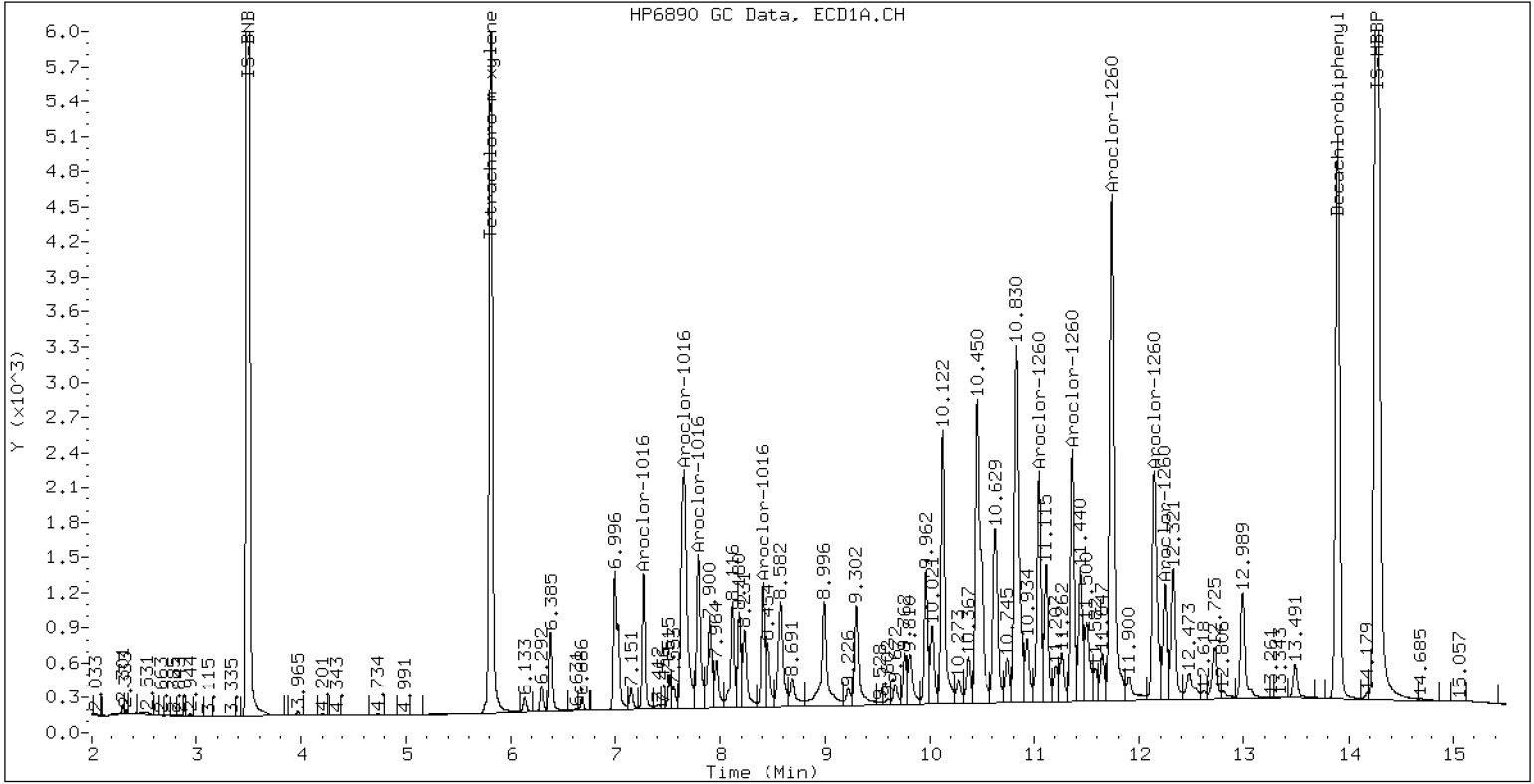
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 0.25PPM AR1660

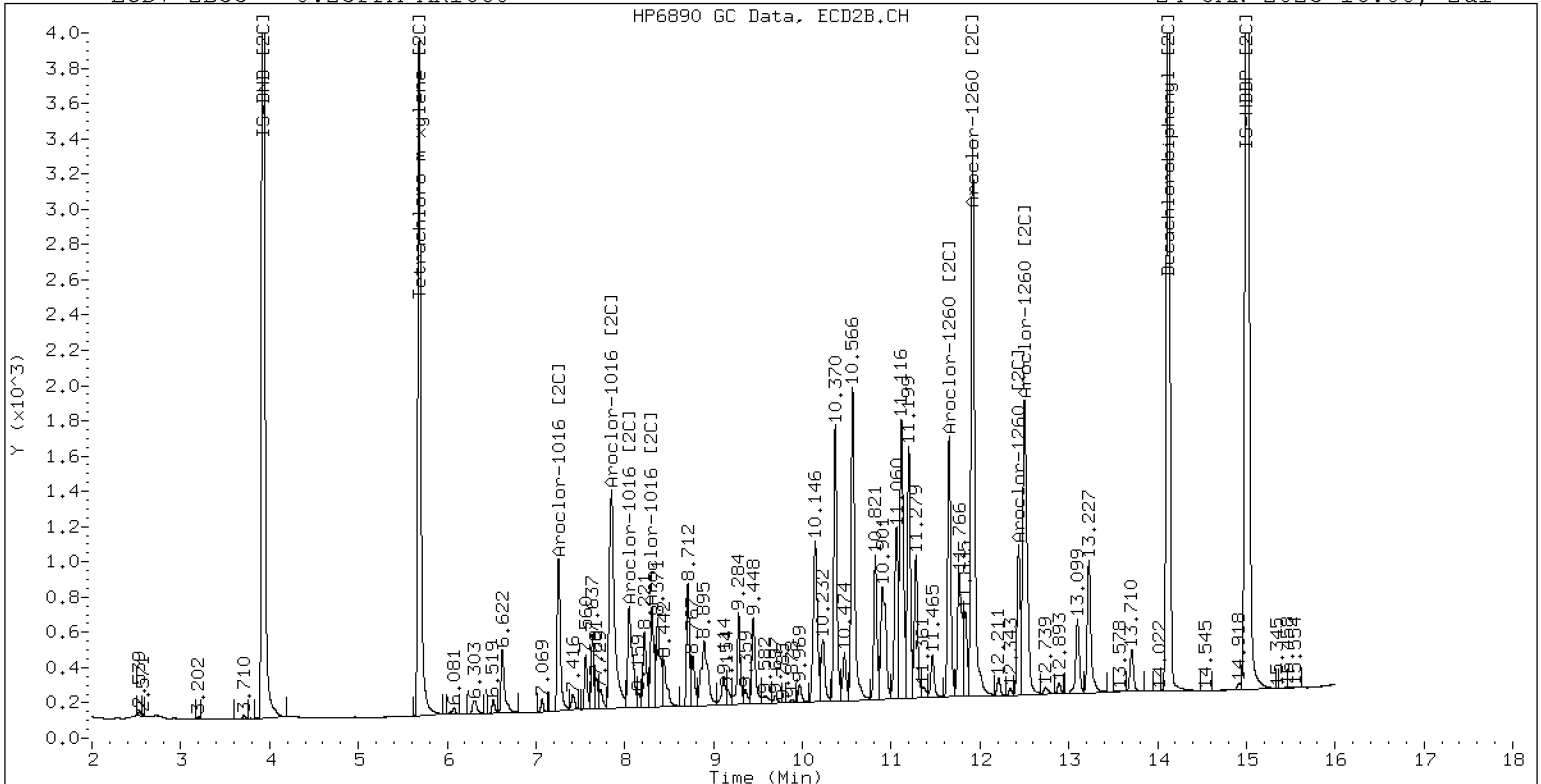
24-JAN-2023 16:00, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 0.25PPM AR1660

24-JAN-2023 16:00, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230124.b/01242314ECD7.D
Data file 2: /230124.b/230124.b/01242314ECD7.D
Method: \\target\share\chem4\ecd7.i\230124.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 0.02PPM AR1660
Client ID:
Injection Date: 24-JAN-2023 16:21
Report Date: 01/25/2023 10:53
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

| RT | ZB5 Col Shift | Response | RT | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag |
|--------|------------------|----------|--------|-------------------|----------|---------------|----------------|-----|----------------------|
| 5.809 | 0.000 | 21307 | 5.686 | -0.000 | 13767 | 3.1 | 3.1 | 0.9 | Tetrachloro-m-xylene |
| 13.892 | 0.000 | 23054 | 14.121 | 0.001 | 19257 | 3.2 | 3.0 | 5.9 | Decachlorobiphenyl |

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1 | | | |
|--------------------|----------------|-------------|------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 503318 | 484077 | -3.8 |
| Hexabromobiphenyl | 647433 | 666748 | 3.0 |
| Column 2 | | | |
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 336911 | 329852 | -2.1 |
| Hexabromobiphenyl | 382032 | 398153 | 4.2 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-JAN-2023
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | | ZB35 Col | | | | | |
|--------------------------|-------|--------|-------|-------|--------|--------------------------|--------|-------|-------|--------|----------|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount | |
| Aroclor-1016 | 1 | 7.272 | 0.002 | 3567 | 19.8 | 1 | 7.257 | 0.002 | 3648 | 20.4 | |
| Aroclor-1016 | 2 | 7.663 | 0.012 | 11219 | 18.8 | 2 | 7.858 | 0.007 | 7019 | 17.9 | |
| Aroclor-1016 | 3 | 7.796 | 0.008 | 5903 | 21.5 | 3 | 8.058 | 0.007 | 2407 | 15.0 | |
| Aroclor-1016 | 4 | 8.410 | 0.006 | 3238 | 18.4 | 4 | 8.308 | 0.003 | 2350 | 18.7 | |
| Total CollAve (4 peaks): | | | | 19.6 | | Total Col2Ave (4 peaks): | | | | 18.0 | RPD = 9 |
| Corrected Ave (3 peaks): | | | | 19.0 | | Corrected Ave (3 peaks): | | | | 17.2 | RPD = 10 |
| CalAmt %D: | | | | -1.8 | | CalAmt %D: | | | | -9.9 | |
| Aroclor-1260 | 1 | 11.049 | 0.005 | 7880 | 21.1 | 1 | 11.655 | 0.002 | 6047 | 21.1 | |
| Aroclor-1260 | 2 | 11.365 | 0.005 | 8234 | 21.4 | 2 | 11.923 | 0.005 | 14680 | 20.2 | |
| Aroclor-1260 | 3 | 11.742 | 0.008 | 22898 | 22.6 | 3 | 12.438 | 0.002 | 3666 | 20.2 | |
| Aroclor-1260 | 4 | 12.149 | 0.009 | 11998 | 22.9 | 4 | 12.506 | 0.004 | 9276 | 19.7 | |
| Aroclor-1260 | 5 | 12.247 | 0.003 | 5494 | 24.1 | NS | --- | | | ---- | |
| Total CollAve (5 peaks): | | | | 22.4 | | Total Col2Ave (4 peaks): | | | | 20.3 | RPD = 10 |
| Corrected Ave (4 peaks): | | | | 22.0 | | Corrected Ave (3 peaks): | | | | 20.1 | RPD = 9 |
| CalAmt %D: | | | | 12.1 | | CalAmt %D: | | | | 1.5 | |

Total PCB Area Coll (5.909 - 13.792) = 256211 Coll Total PCB = 0.0 ppm*

Total PCB Area Col2 (5.787 - 14.020) = 146434 Col2 Total PCB = 0.0 ppm*

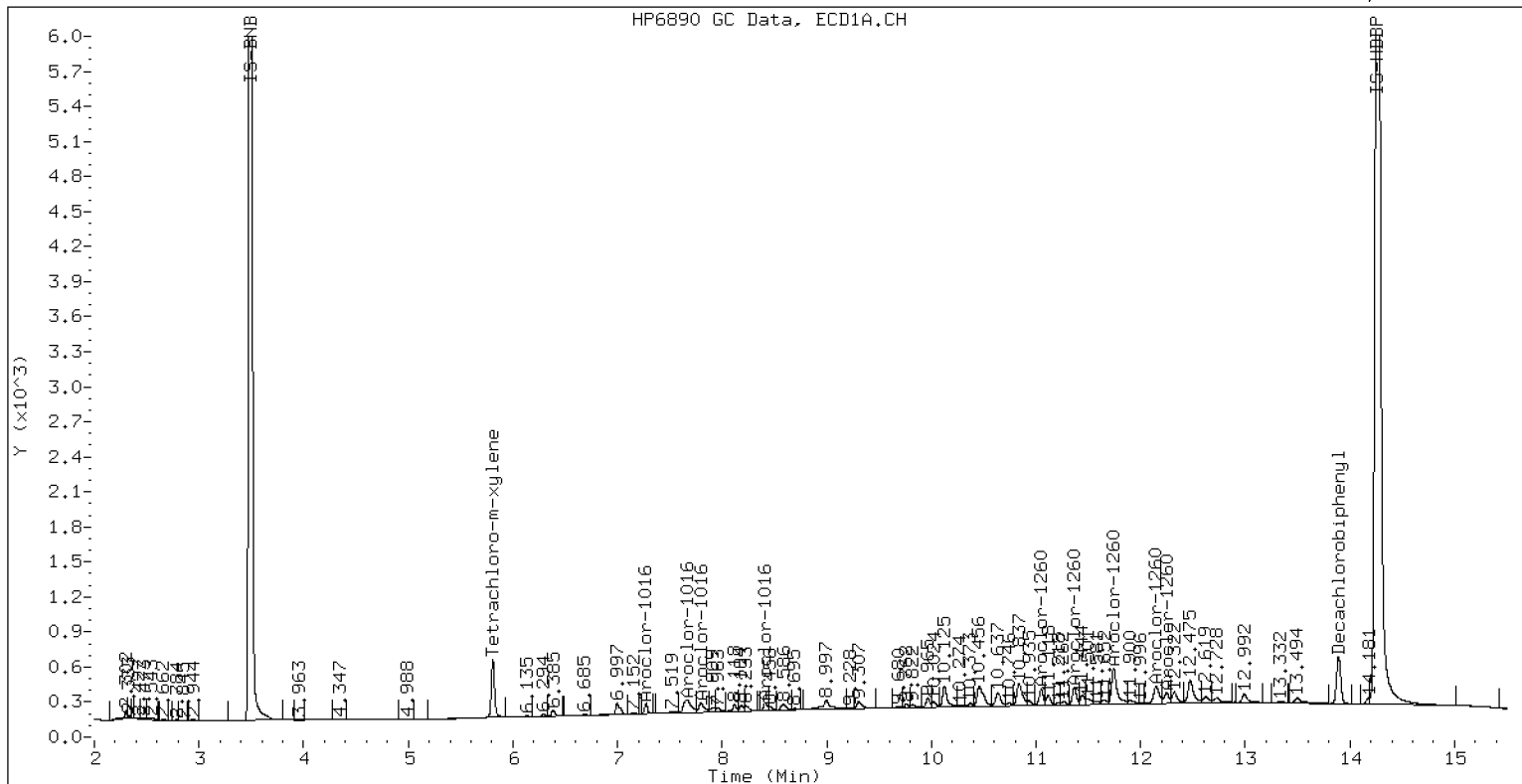
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 0.02PPM AR1660

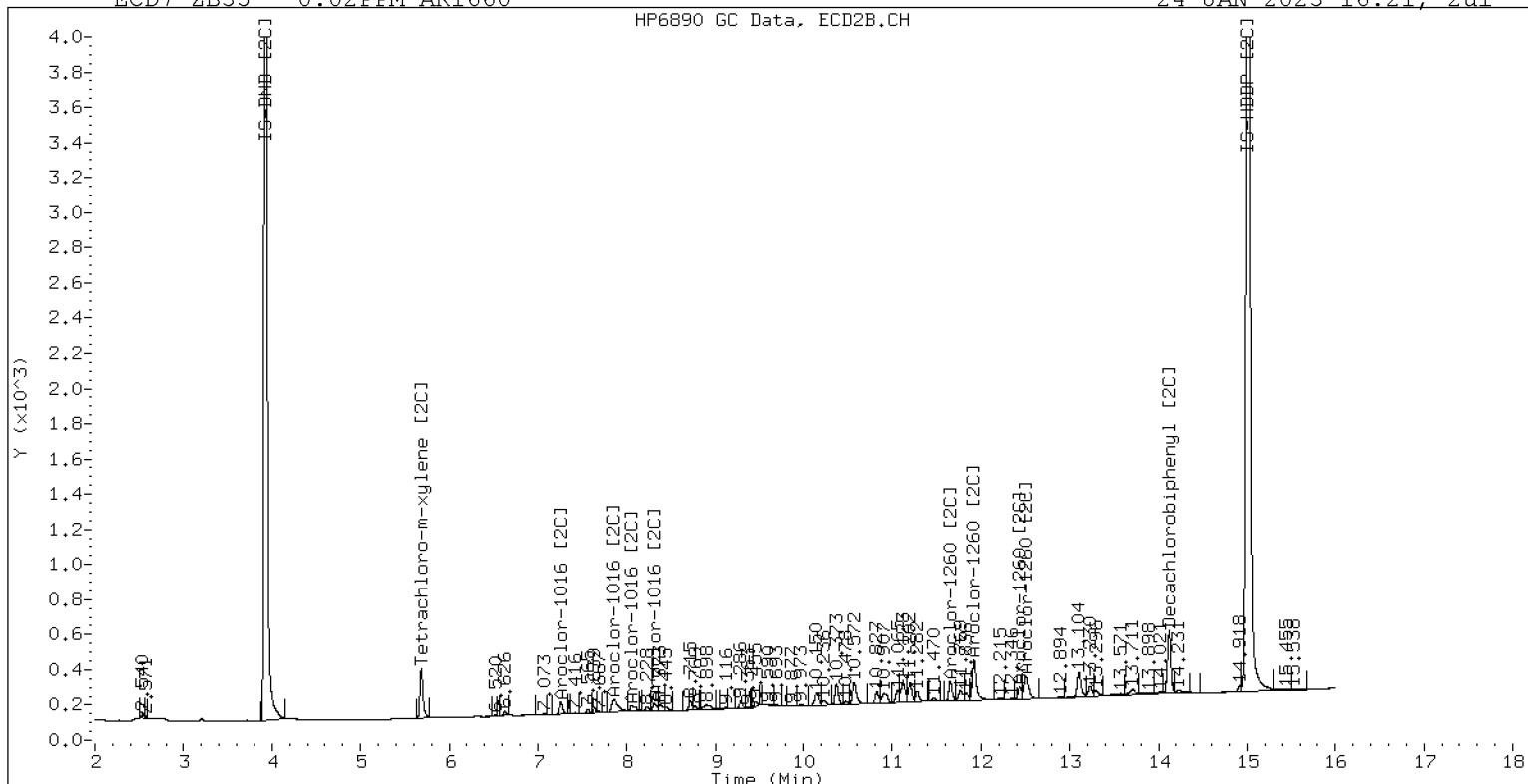
24-JAN-2023 16:21, 2u1



ZB-5 Manual Integration: NO

ECD7-ZB35 0.02PPM AR1660

24-JAN-2023 16:21, 2u1



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230124.b/01242315ECD7.D
Data file 2: /230124.b/230124.b/01242315ECD7.D
Method: \\target\share\chem4\ecd7.i\230124.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 0.05PPM AR1660
Client ID:
Injection Date: 24-JAN-2023 16:42
Report Date: 01/25/2023 10:53
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

| RT | ZB5 Col Shift | Response | RT | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag |
|--------|------------------|----------|--------|-------------------|----------|---------------|----------------|-----|----------------------|
| 5.809 | -0.000 | 53503 | 5.687 | -0.000 | 36922 | 7.8 | 8.2 | 4.7 | Tetrachloro-m-xylene |
| 13.893 | 0.001 | 62544 | 14.120 | -0.000 | 52782 | 8.4 | 8.0 | 5.3 | Decachlorobiphenyl |

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1 | | | |
|--------------------|----------------|-------------|------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 503318 | 485432 | -3.6 |
| Hexabromobiphenyl | 647433 | 692613 | 7.0 |
| Column 2 | | | |
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 336911 | 334072 | -0.8 |
| Hexabromobiphenyl | 382032 | 415206 | 8.7 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-JAN-2023
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | | ZB35 Col | | | | | |
|--------------------------|-------|--------|-------|-------|--------------------------|----------|--------|-------|-------|---------|--|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount | |
| Aroclor-1016 | 1 | 7.271 | 0.002 | 9412 | 52.2 | 1 | 7.256 | 0.001 | 9864 | 54.4 | |
| Aroclor-1016 | 2 | 7.657 | 0.007 | 29769 | 49.8 | 2 | 7.855 | 0.004 | 20076 | 50.6 | |
| Aroclor-1016 | 3 | 7.795 | 0.006 | 14866 | 54.1 | 3 | 8.055 | 0.004 | 8697 | 53.7 | |
| Aroclor-1016 | 4 | 8.409 | 0.005 | 8500 | 48.1 | 4 | 8.308 | 0.003 | 7052 | 55.5 | |
| Total CollAve (4 peaks): | | | | 51.0 | Total Col2Ave (4 peaks): | | | | 53.5 | RPD = 5 | |
| Corrected Ave (3 peaks): | | | | 50.0 | Corrected Ave (3 peaks): | | | | 52.9 | RPD = 6 | |
| CalAmt %D: | | | | 2.0 | CalAmt %D: | | | | 7.1 | | |
| Aroclor-1260 | 1 | 11.048 | 0.005 | 19665 | 50.6 | 1 | 11.655 | 0.002 | 15502 | 51.8 | |
| Aroclor-1260 | 2 | 11.364 | 0.003 | 20070 | 50.2 | 2 | 11.921 | 0.003 | 39201 | 51.7 | |
| Aroclor-1260 | 3 | 11.740 | 0.006 | 55534 | 52.8 | 3 | 12.439 | 0.003 | 9678 | 51.2 | |
| Aroclor-1260 | 4 | 12.145 | 0.006 | 28735 | 52.9 | 4 | 12.506 | 0.004 | 25741 | 52.5 | |
| Aroclor-1260 | 5 | 12.246 | 0.002 | 12906 | 54.5 | NS | --- | | | ---- | |
| Total CollAve (5 peaks): | | | | 52.2 | Total Col2Ave (4 peaks): | | | | 51.8 | RPD = 1 | |
| Corrected Ave (4 peaks): | | | | 51.6 | Corrected Ave (3 peaks): | | | | 51.6 | RPD = 0 | |
| CalAmt %D: | | | | 4.4 | CalAmt %D: | | | | 3.6 | | |

Total PCB Area Coll (5.909 - 13.792) = 600311 Coll Total PCB = 0.1 ppm*

Total PCB Area Col2 (5.787 - 14.020) = 383666 Col2 Total PCB = 0.1 ppm*

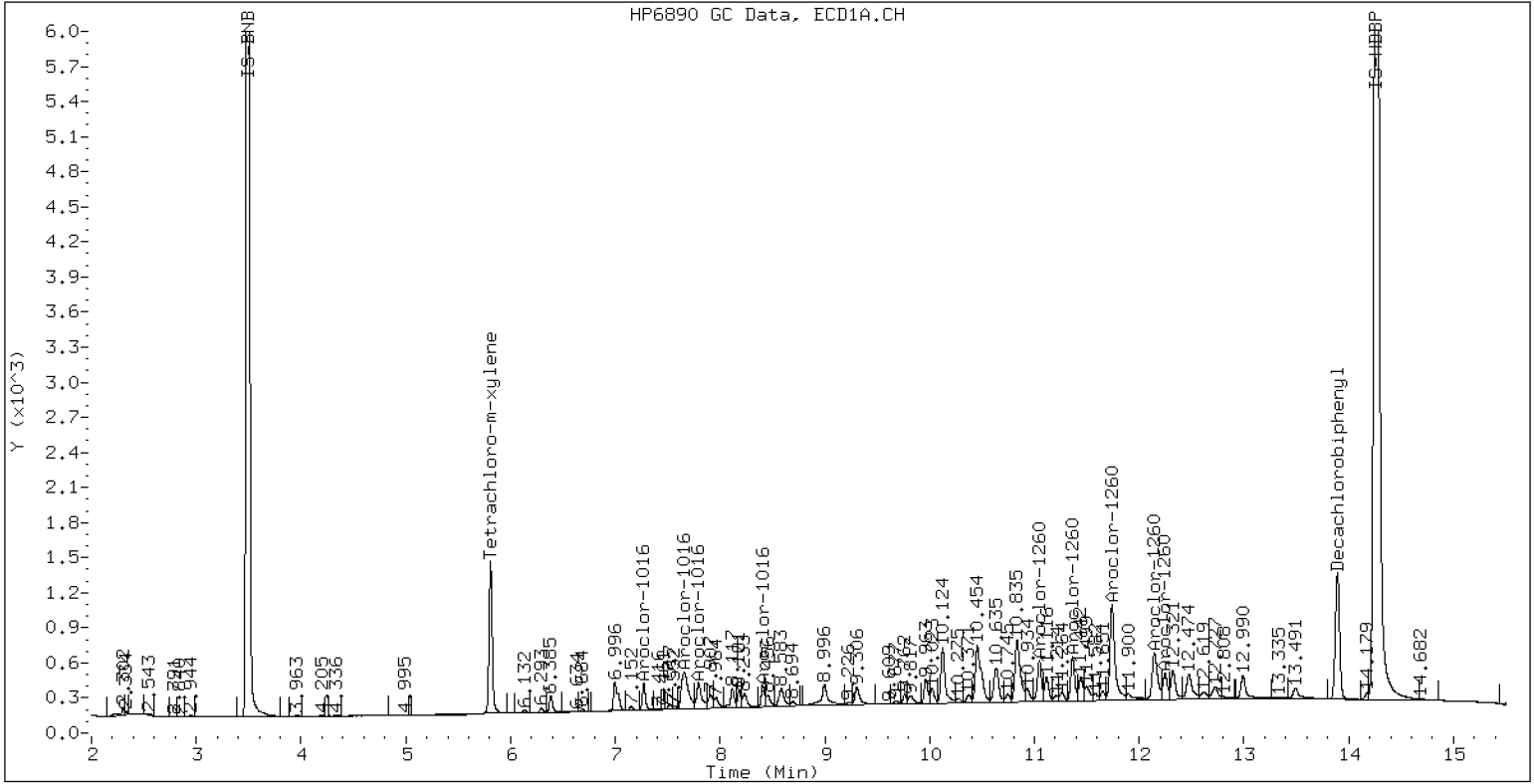
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 0.05PPM AR1660

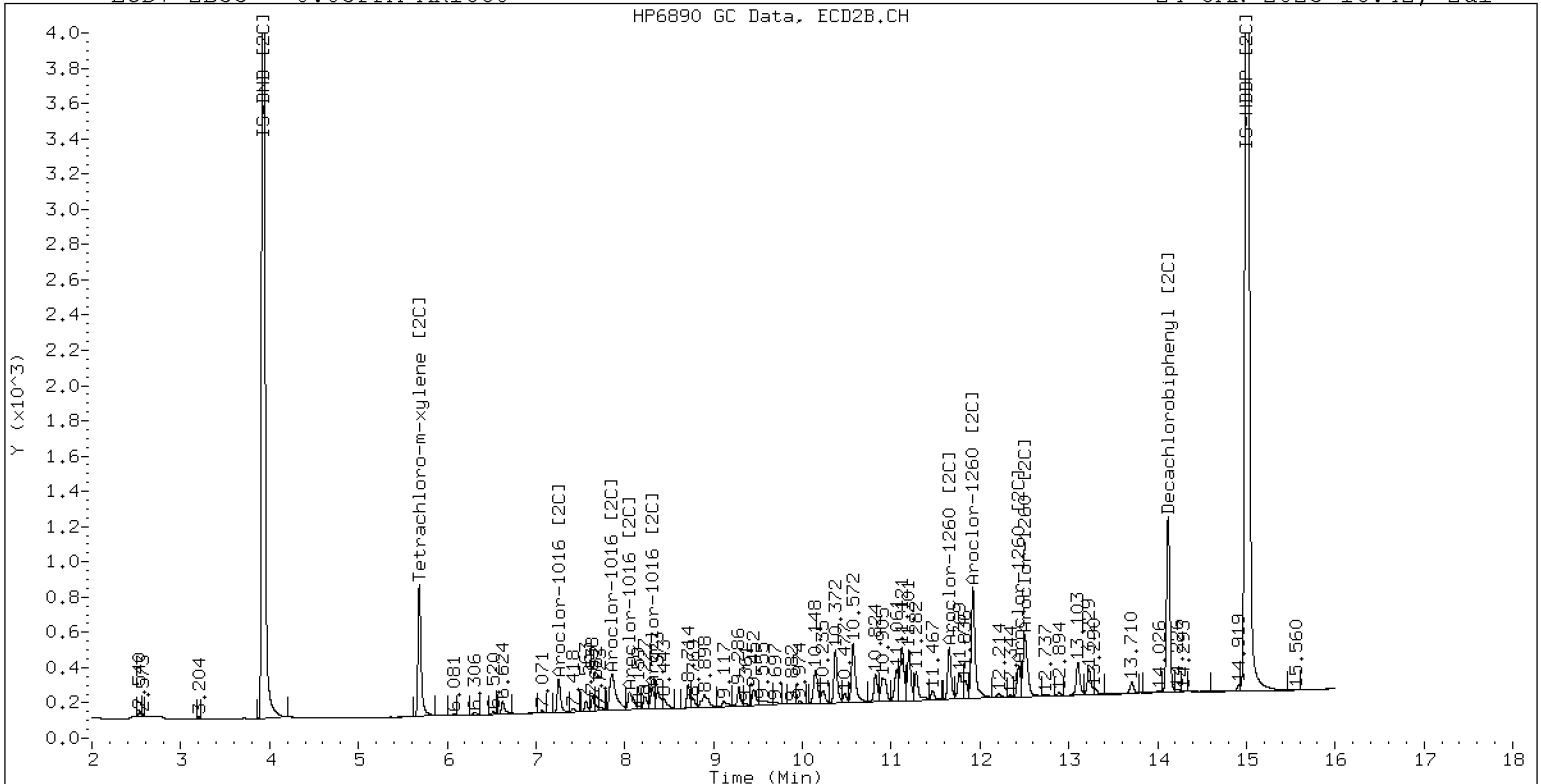
24-JAN-2023 16:42, 2u1



ZB-5 Manual Integration: NO

ECD7-ZB35 0.05PPM AR1660

24-JAN-2023 16:42, 2u1



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230124.b/01242316ECD7.D
Data file 2: /230124.b/230124.b/01242316ECD7.D
Method: \\target\share\chem4\ecd7.i\230124.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 1.0PPM AR1660
Client ID:
Injection Date: 24-JAN-2023 17:03
Report Date: 01/25/2023 11:34
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

| RT | ZB5 Col Shift | ZB5 Col Response | RT | ZB35 Col Shift | ZB35 Col Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag |
|--------|------------------|---------------------|--------|-------------------|----------------------|---------------|----------------|------|----------------------|
| 5.809 | 0.000 | 1033475 | 5.685 | -0.002 | 672800 | 154.9 | 153.6 | 0.8 | Tetrachloro-m-xylene |
| 13.892 | 0.000 | 1125556 | 14.122 | 0.002 | 1078539 | 148.0 | 164.3 | 10.4 | Decachlorobiphenyl |

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 503318 | 472076 | -6.2 |
| Hexabromobiphenyl | 647433 | 711071 | 9.8 |

| Standard Cpnd | Column 2 | | |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 336911 | 323926 | -3.9 |
| Hexabromobiphenyl | 382032 | 413585 | 8.3 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-JAN-2023
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | ZB35 Col | | | | | |
|--------------------------|-------|-------|--------|--------|----------|--------------------------|-------|--------|--------|---------------|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount |
| Aroclor-1016 | 1 | 7.270 | -0.000 | 155505 | 886.5 | 1 | 7.254 | -0.001 | 153668 | 874.6 |
| Aroclor-1016 | 2 | 7.649 | -0.001 | 552101 | 949.8 | 2 | 7.849 | -0.002 | 369677 | 960.2 |
| Aroclor-1016 | 3 | 7.786 | -0.002 | 223973 | 837.5 | 3 | 8.048 | -0.003 | 152418 | 970.1 |
| Aroclor-1016 | 4 | 8.402 | -0.001 | 169003 | 982.4 | 4 | 8.304 | -0.001 | 110311 | 895.6 |
| Total CollAve (4 peaks): | | | | 914.1 | | Total Col2Ave (4 peaks): | | | | 925.1 RPD = 1 |
| Corrected Ave (3 peaks): | | | | 891.3 | | Corrected Ave (3 peaks): | | | | 910.1 RPD = 2 |

CalAmt %D: -8.6

CalAmt %D: -7.5

| | | | | | | | | | | |
|--------------------------|---|--------|--------|--------|-------|--------------------------|--------|--------|--------|---------------|
| Aroclor-1260 | 1 | 11.043 | -0.001 | 359074 | 900.0 | 1 | 11.653 | -0.001 | 274365 | 919.6 |
| Aroclor-1260 | 2 | 11.360 | -0.000 | 374067 | 912.1 | 2 | 11.917 | -0.000 | 713881 | 945.7 |
| Aroclor-1260 | 3 | 11.733 | -0.001 | 959026 | 888.3 | 3 | 12.436 | -0.000 | 190968 | 1015.0 |
| Aroclor-1260 | 4 | 12.137 | -0.002 | 521189 | 934.3 | 4 | 12.502 | -0.000 | 465680 | 953.2 |
| Aroclor-1260 | 5 | 12.242 | -0.002 | 217473 | 894.4 | NS | --- | | | ---- |
| Total CollAve (5 peaks): | | | | 905.8 | | Total Col2Ave (4 peaks): | | | | 958.4 RPD = 6 |
| Corrected Ave (4 peaks): | | | | 898.7 | | Corrected Ave (3 peaks): | | | | 939.5 RPD = 4 |

CalAmt %D: -9.4

CalAmt %D: -4.2

Total PCB Area Coll (5.909 - 13.792) = 10234908 Coll Total PCB = 1.9 ppm*

Total PCB Area Col2 (5.787 - 14.020) = 6685547 Col2 Total PCB = 2.0 ppm*

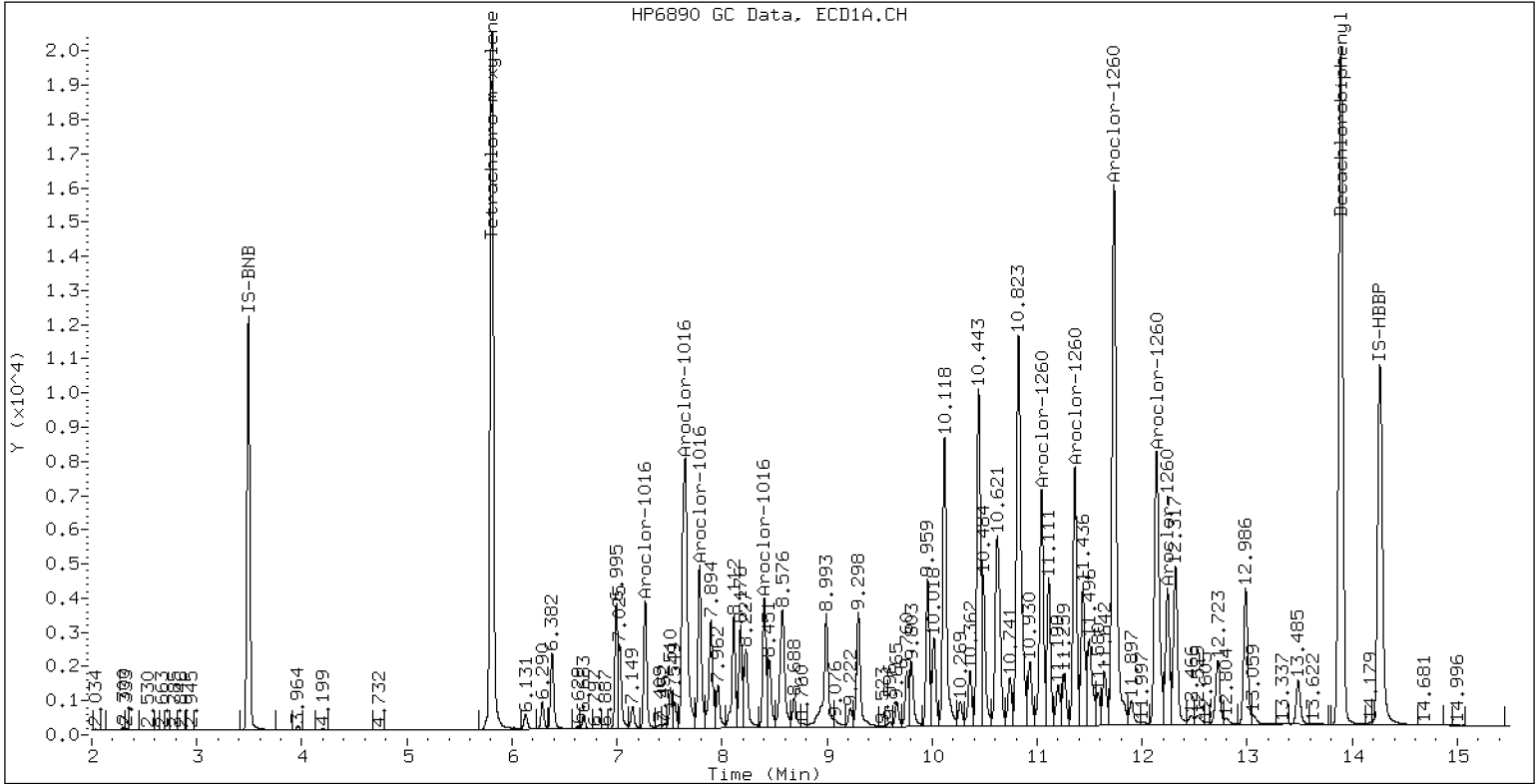
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 1.0PPM AR1660

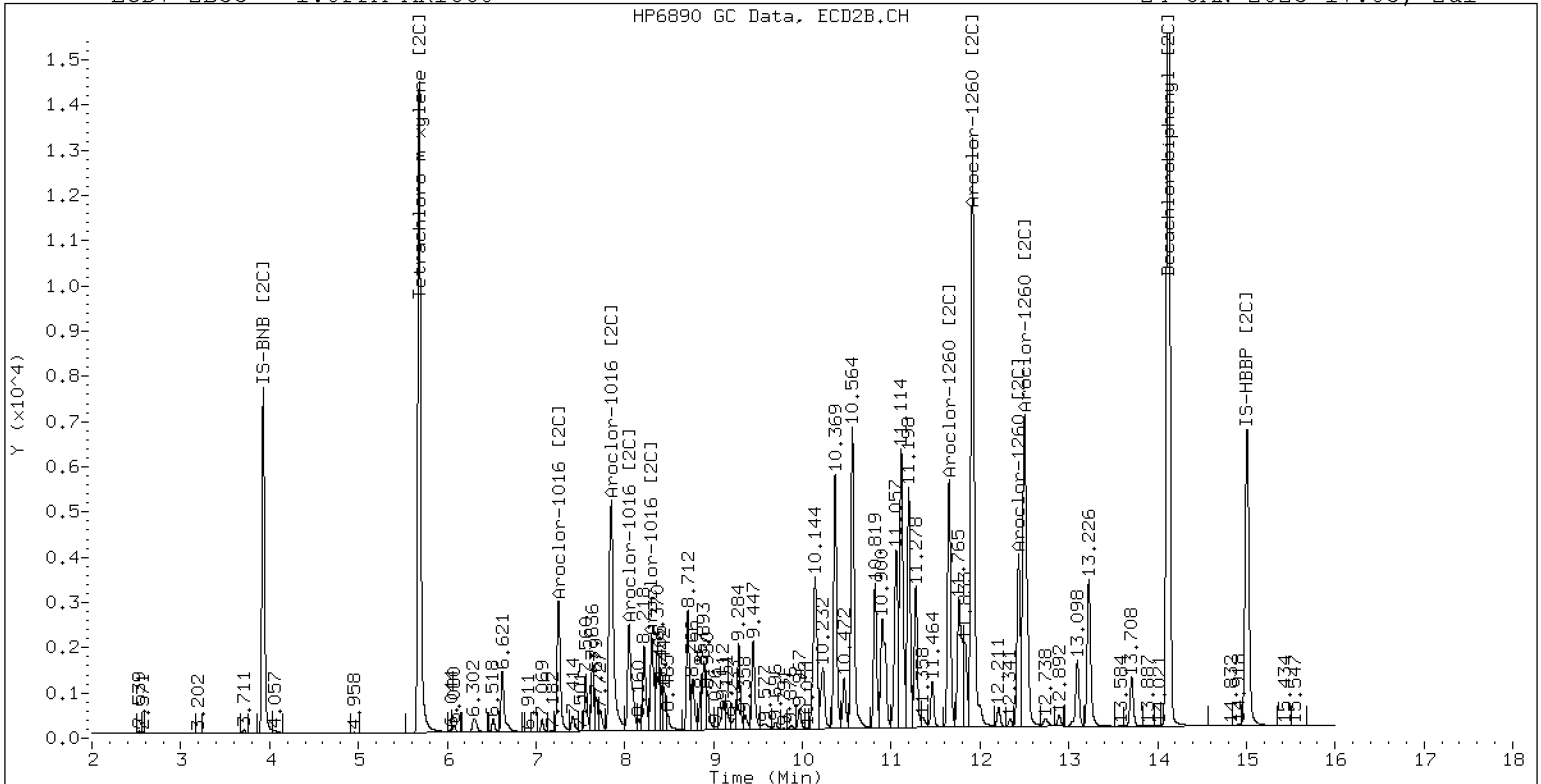
24-JAN-2023 17:03, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 1.0PPM AR1660

24-JAN-2023 17:03, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230124.b/01242317ECD7.D
Data file 2: /230124.b/230124.b/01242317ECD7.D
Method: \\target\share\chem4\ecd7.i\230124.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 0.1PPM AR1660
Client ID:
Injection Date: 24-JAN-2023 17:24
Report Date: 01/25/2023 10:53
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

| RT | ZB5 Col Shift | Response | RT | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag |
|--------|---------------|----------|--------|----------------|----------|------------|-------------|-----|----------------------|
| 5.808 | -0.001 | 117058 | 5.686 | -0.001 | 76340 | 17.3 | 17.1 | 1.2 | Tetrachloro-m-xylene |
| 13.892 | 0.000 | 140818 | 14.119 | -0.001 | 113773 | 17.4 | 16.5 | 5.2 | Decachlorobiphenyl |

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 503318 | 479756 | -4.7 |
| Hexabromobiphenyl | 647433 | 756424 | 16.8 |

| Standard Cpnd | Column 2 | | |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 336911 | 330987 | -1.8 |
| Hexabromobiphenyl | 382032 | 433619 | 13.5 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-JAN-2023
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | | ZB35 Col | | | | |
|--------------------------|-------|--------|-------|--------|--------|--------------------------|--------|-------|-------|---------------|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount |
| Aroclor-1016 | 1 | 7.271 | 0.001 | 19848 | 111.3 | 1 | 7.255 | 0.000 | 19353 | 107.8 |
| Aroclor-1016 | 2 | 7.656 | 0.005 | 63555 | 107.6 | 2 | 7.853 | 0.002 | 43099 | 109.6 |
| Aroclor-1016 | 3 | 7.793 | 0.004 | 30749 | 113.1 | 3 | 8.053 | 0.003 | 18527 | 115.4 |
| Aroclor-1016 | 4 | 8.406 | 0.003 | 18961 | 108.5 | 4 | 8.307 | 0.002 | 14145 | 112.4 |
| Total CollAve (4 peaks): | | | | 110.1 | | Total Col2Ave (4 peaks): | | | | 111.3 RPD = 1 |
| Corrected Ave (3 peaks): | | | | 109.1 | | Corrected Ave (3 peaks): | | | | 109.9 RPD = 1 |
| CalAmt %D: | | | | 10.1 | | CalAmt %D: | | | | 11.3 |
| Aroclor-1260 | 1 | 11.046 | 0.002 | 41864 | 98.6 | 1 | 11.655 | 0.001 | 32043 | 102.4 |
| Aroclor-1260 | 2 | 11.362 | 0.001 | 42073 | 96.4 | 2 | 11.920 | 0.002 | 82285 | 104.0 |
| Aroclor-1260 | 3 | 11.739 | 0.004 | 111005 | 96.7 | 3 | 12.437 | 0.001 | 19416 | 98.4 |
| Aroclor-1260 | 4 | 12.144 | 0.004 | 56707 | 95.6 | 4 | 12.504 | 0.002 | 53558 | 104.6 |
| Aroclor-1260 | 5 | 12.245 | 0.001 | 24958 | 96.5 | NS | --- | | | ---- |
| Total CollAve (5 peaks): | | | | 96.8 | | Total Col2Ave (4 peaks): | | | | 102.3 RPD = 6 |
| Corrected Ave (4 peaks): | | | | 96.3 | | Corrected Ave (3 peaks): | | | | 101.6 RPD = 5 |
| CalAmt %D: | | | | -3.2 | | CalAmt %D: | | | | 2.3 |

Total PCB Area Coll (5.909 - 13.792) = 1238855 Coll Total PCB = 0.2 ppm*

Total PCB Area Col2 (5.787 - 14.020) = 777713 Col2 Total PCB = 0.2 ppm*

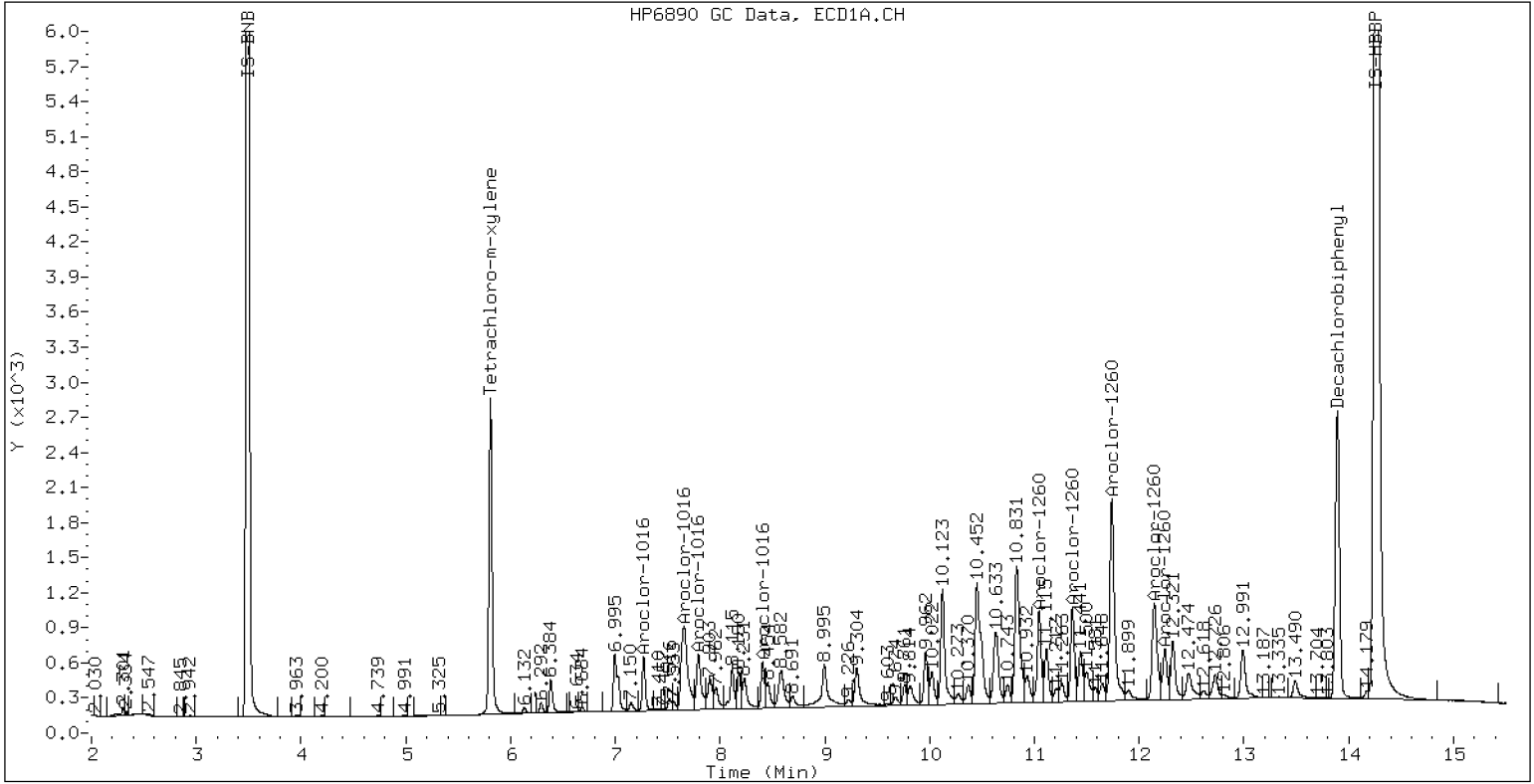
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 0.1PPM AR1660

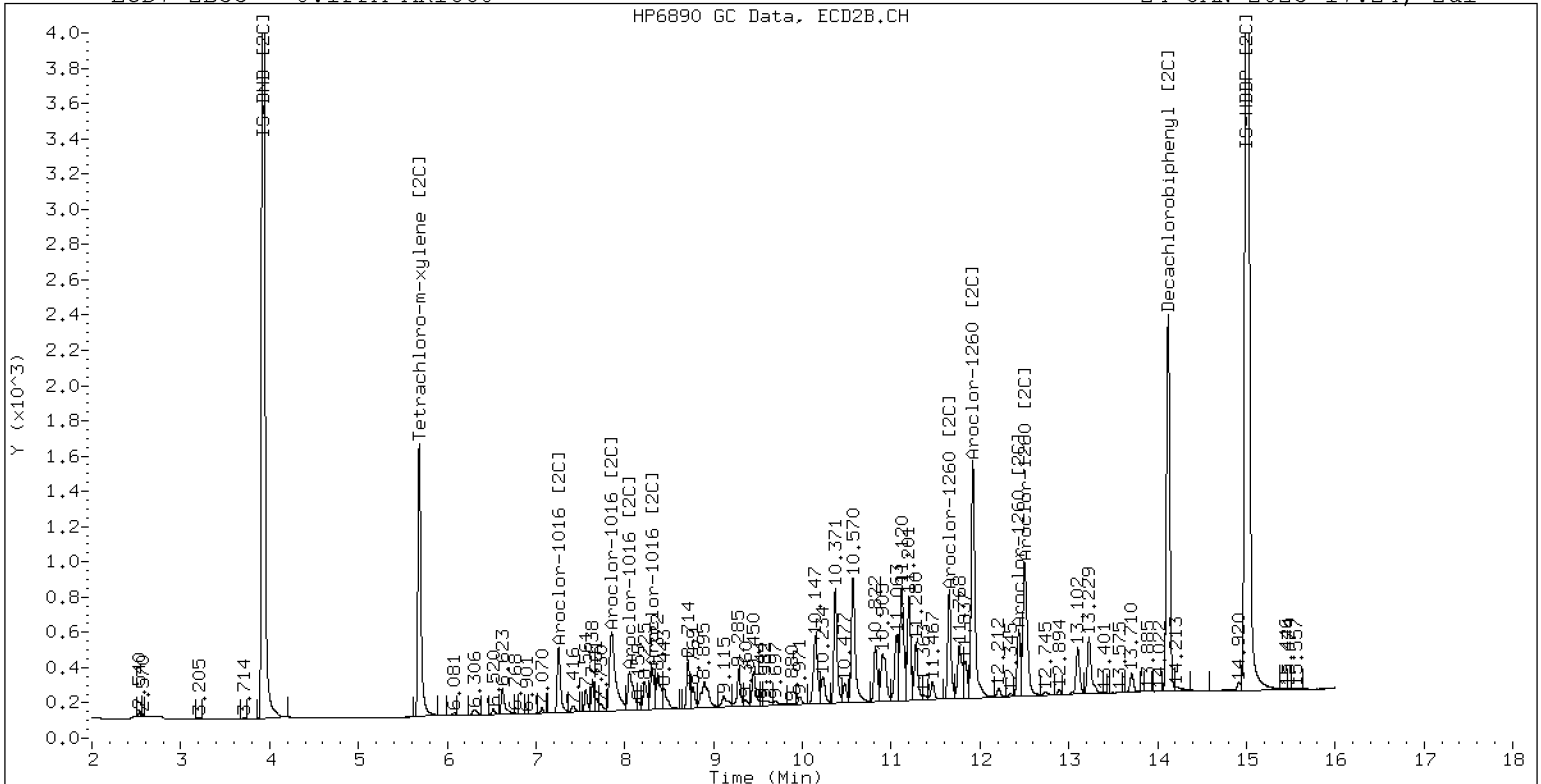
24-JAN-2023 17:24, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 0.1PPM AR1660

24-JAN-2023 17:24, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230124.b/01242318ECD7.D
Data file 2: /230124.b/230124.b/01242318ECD7.D
Method: \\target\share\chem4\ecd7.i\230124.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 0.5PPM AR1660
Client ID:
Injection Date: 24-JAN-2023 17:45
Report Date: 01/25/2023 10:53
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

| RT | ZB5 Col Shift | Response | RT | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag |
|--------|------------------|----------|--------|-------------------|----------|---------------|----------------|-----|----------------------|
| 5.809 | 0.000 | 534053 | 5.686 | -0.000 | 348900 | 79.1 | 77.8 | 1.6 | Tetrachloro-m-xylene |
| 13.891 | -0.001 | 614978 | 14.120 | 0.000 | 552784 | 74.4 | 77.5 | 4.0 | Decachlorobiphenyl |

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1 | | | |
|--------------------|----------------|-------------|------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 503318 | 477720 | -5.1 |
| Hexabromobiphenyl | 647433 | 772816 | 19.4 |
| Column 2 | | | |
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 336911 | 331694 | -1.5 |
| Hexabromobiphenyl | 382032 | 449559 | 17.7 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-JAN-2023
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | | ZB35 Col | | | | | |
|--------------------------|-------|--------|-------|--------|--------|--------------------------|--------|--------|--------|--------|---------|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount | |
| Aroclor-1016 | 1 | 7.270 | 0.000 | 84322 | 475.0 | 1 | 7.254 | -0.000 | 84986 | 472.4 | |
| Aroclor-1016 | 2 | 7.650 | 0.000 | 294429 | 500.6 | 2 | 7.850 | -0.001 | 198065 | 502.4 | |
| Aroclor-1016 | 3 | 7.789 | 0.000 | 122151 | 451.4 | 3 | 8.050 | -0.000 | 81378 | 505.8 | |
| Aroclor-1016 | 4 | 8.404 | 0.000 | 87760 | 504.1 | 4 | 8.305 | -0.000 | 59656 | 473.0 | |
| Total CollAve (4 peaks): | | | | 482.8 | | Total Col2Ave (4 peaks): | | | | 488.4 | RPD = 1 |
| Corrected Ave (3 peaks): | | | | 475.6 | | Corrected Ave (3 peaks): | | | | 482.6 | RPD = 1 |
| CalAmt %D: | | | | -3.4 | | CalAmt %D: | | | | -2.3 | |
| Aroclor-1260 | 1 | 11.044 | 0.000 | 193843 | 447.0 | 1 | 11.653 | -0.000 | 146980 | 453.2 | |
| Aroclor-1260 | 2 | 11.361 | 0.000 | 198052 | 444.3 | 2 | 11.917 | -0.001 | 376388 | 458.7 | |
| Aroclor-1260 | 3 | 11.734 | 0.000 | 505614 | 430.9 | 3 | 12.436 | -0.000 | 98369 | 481.0 | |
| Aroclor-1260 | 4 | 12.139 | 0.000 | 264950 | 437.0 | 4 | 12.501 | -0.001 | 252455 | 475.4 | |
| Aroclor-1260 | 5 | 12.244 | 0.000 | 112421 | 425.4 | NS | --- | | | ---- | |
| Total CollAve (5 peaks): | | | | 436.9 | | Total Col2Ave (4 peaks): | | | | 467.1 | RPD = 7 |
| Corrected Ave (4 peaks): | | | | 434.4 | | Corrected Ave (3 peaks): | | | | 462.4 | RPD = 6 |
| CalAmt %D: | | | | -12.6 | | CalAmt %D: | | | | -6.6 | |

Total PCB Area Coll (5.909 - 13.792) = 5412241 Coll Total PCB = 1.0 ppm*

Total PCB Area Col2 (5.787 - 14.020) = 3551064 Col2 Total PCB = 1.0 ppm*

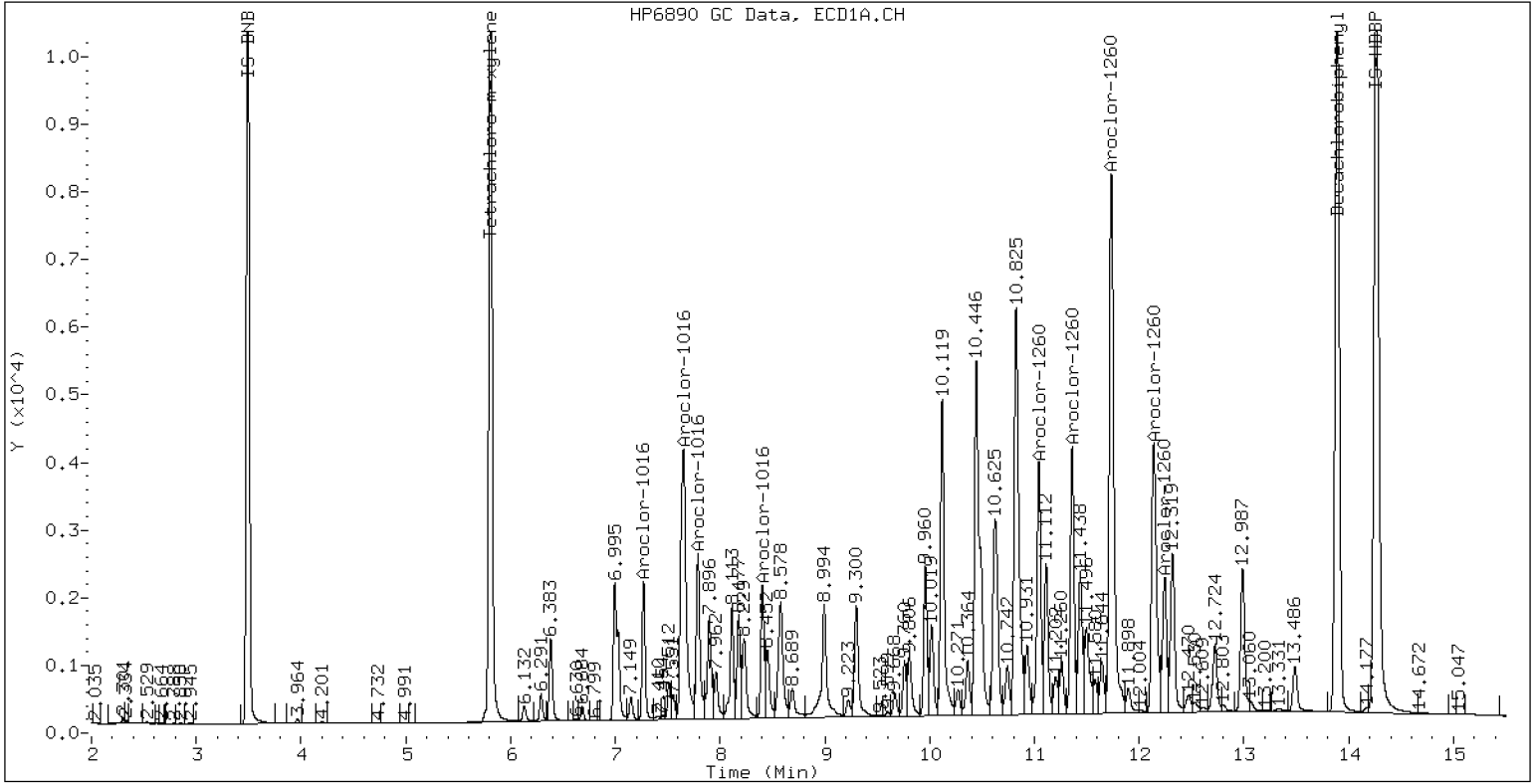
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 0.5PPM AR1660

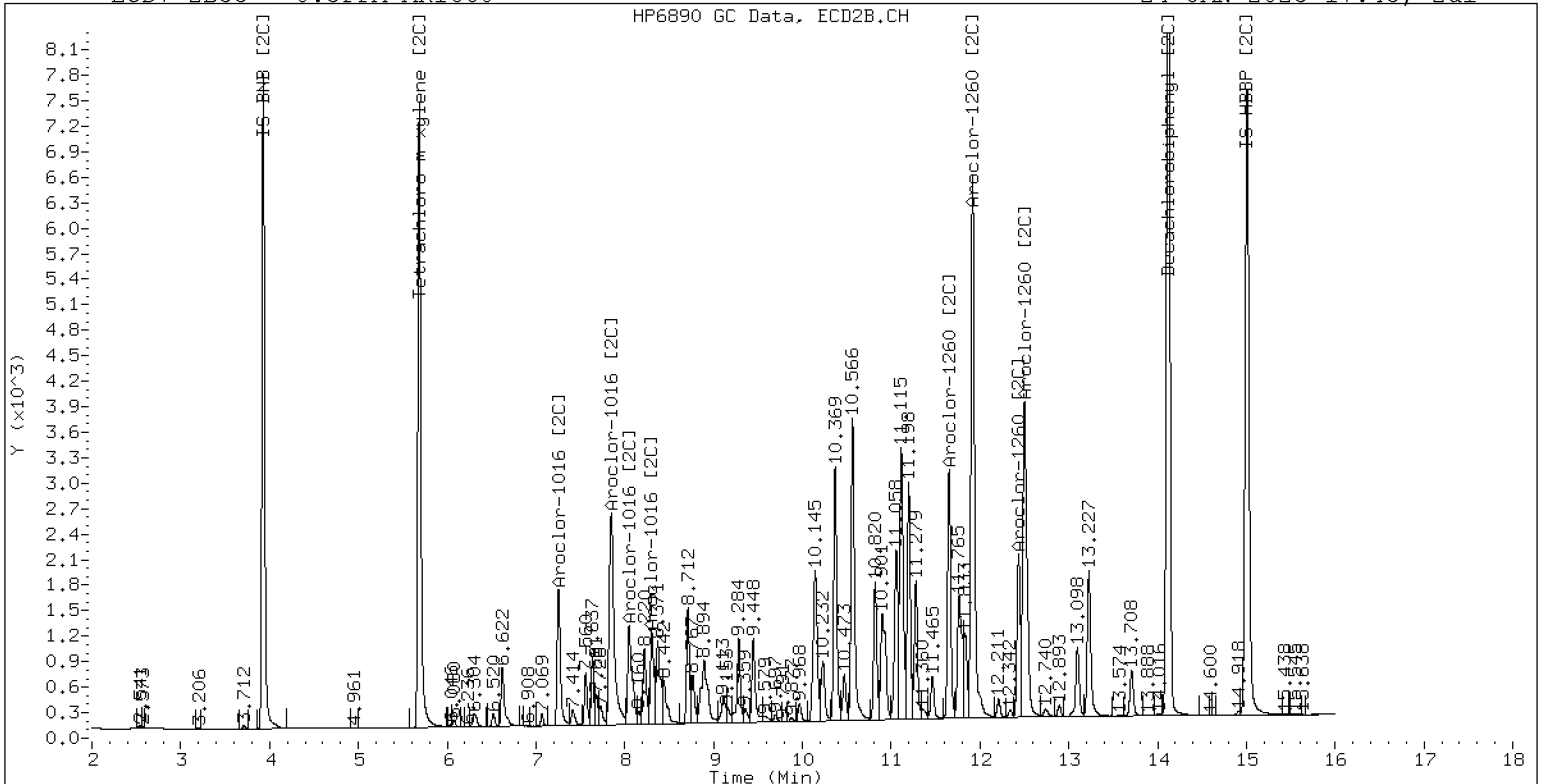
24-JAN-2023 17:45, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 0.5PPM AR1660

24-JAN-2023 17:45, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230124.b/01242319ECD7.D
Data file 2: /230124.b/230124.b/01242319ECD7.D
Method: \\target\share\chem4\ecd7.i\230124.b\PCB.m
Compound Sublist: AR1242.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 0.25PPM 1242
Client ID:
Injection Date: 24-JAN-2023 18:06
Report Date: 01/25/2023 10:53
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

| RT | ZB5 Col Shift | Response | RT | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag |
|--------|---------------|----------|--------|----------------|----------|------------|-------------|-----|----------------------|
| 5.809 | -0.000 | 317773 | 5.686 | -0.000 | 205627 | 47.7 | 46.6 | 2.2 | Tetrachloro-m-xylene |
| 13.892 | -0.000 | 322814 | 14.121 | 0.001 | 269935 | 36.0 | 36.5 | 1.4 | Decachlorobiphenyl |

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 503318 | 471690 | -6.3 |
| Hexabromobiphenyl | 647433 | 839322 | 29.6 |

| Standard Cpnd | Column 2 | | |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 336911 | 326260 | -3.2 |
| Hexabromobiphenyl | 382032 | 466396 | 22.1 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-JAN-2023
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | | ZB35 Col | | | | |
|--------------------------|-------|-------|-------|--------|--------------------------|----------|-------|-------|-------|---------|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount |
| Aroclor-1242 | 1 | 7.271 | 0.000 | 36109 | 250.0 | 1 | 7.256 | 0.000 | 35672 | 250.0 |
| Aroclor-1242 | 2 | 7.655 | 0.000 | 118172 | 250.0 | 2 | 7.853 | 0.000 | 79233 | 250.0 |
| Aroclor-1242 | 3 | 8.407 | 0.000 | 35110 | 250.0 | 3 | 9.160 | 0.000 | 24814 | 250.0 |
| Aroclor-1242 | 4 | 8.581 | 0.000 | 53037 | 250.0 | 4 | 9.587 | 0.000 | 32887 | 250.0 |
| Total Col1Ave (4 peaks): | | | | 250.0 | Total Col2Ave (4 peaks): | | | | 250.0 | RPD = 0 |
| Corrected Ave (3 peaks): | | | | 250.0 | Corrected Ave (3 peaks): | | | | 250.0 | RPD = 0 |

Total PCB Area Col1 (5.909 - 13.792) = 930958 Col1 Total PCB = 0.2 ppm*

Total PCB Area Col2 (5.787 - 14.020) = 567613 Col2 Total PCB = 0.2 ppm*

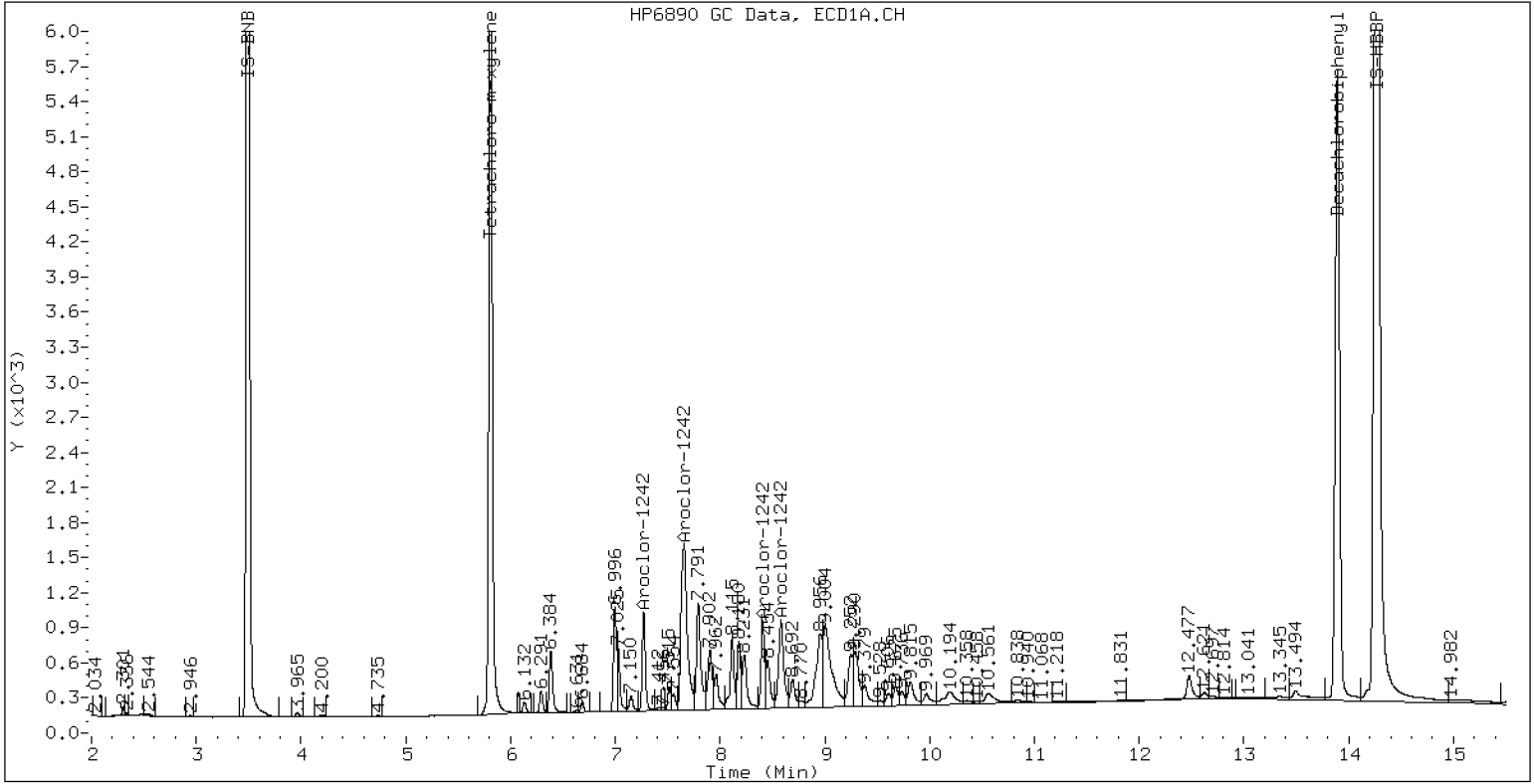
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 0.25PPM 1242

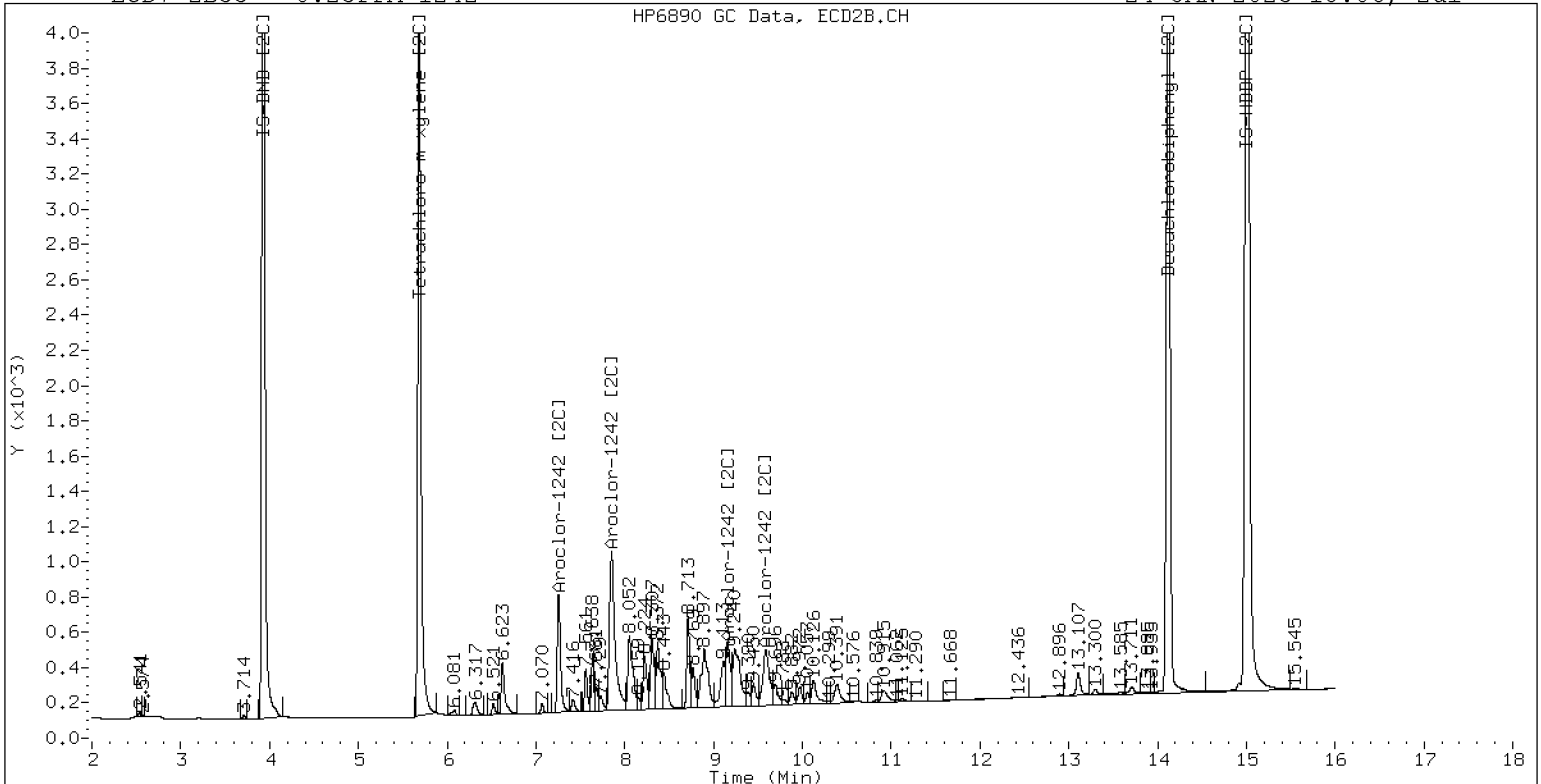
24-JAN-2023 18:06, 2u1



ZB-5 Manual Integration: NO

ECD7-ZB35 0.25PPM 1242

24-JAN-2023 18:06, 2u1



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230124.b/01242320ECD7.D
Data file 2: /230124.b/230124.b/01242320ECD7.D
Method: \\target\share\chem4\ecd7.i\230124.b\PCB.m
Compound Sublist: AR1248.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 0.25PPM 1248
Client ID:
Injection Date: 24-JAN-2023 18:27
Report Date: 01/25/2023 10:53
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

| RT | ZB5 Col Shift | Response | RT | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag |
|--------|------------------|----------|--------|-------------------|----------|---------------|----------------|-----|----------------------|
| 5.809 | -0.000 | 266561 | 5.686 | -0.001 | 171841 | 38.5 | 38.0 | 1.3 | Tetrachloro-m-xylene |
| 13.892 | 0.001 | 334524 | 14.120 | 0.000 | 281569 | 36.6 | 37.7 | 3.1 | Decachlorobiphenyl |

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 503318 | 489828 | -2.7 |
| Hexabromobiphenyl | 647433 | 855612 | 32.2 |

| Standard Cpnd | Column 2 | | |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 336911 | 334539 | -0.7 |
| Hexabromobiphenyl | 382032 | 470415 | 23.1 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-JAN-2023
<- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col ZB35 Col

| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount |
|--------------------------|-------|-------|-------|--------|--------------------------|-------|-------|-------|-------|---------|
| Aroclor-1248 | 1 | 8.406 | 0.000 | 61259 | 250.0 | 1 | 8.305 | 0.000 | 37805 | 250.0 |
| Aroclor-1248 | 2 | 8.580 | 0.000 | 78143 | 250.0 | 2 | 8.712 | 0.000 | 40692 | 250.0 |
| Aroclor-1248 | 3 | 8.999 | 0.000 | 149476 | 250.0 | 3 | 9.156 | 0.000 | 49723 | 250.0 |
| Aroclor-1248 | 4 | 9.294 | 0.000 | 73986 | 250.0 | 4 | 9.582 | 0.000 | 61494 | 250.0 |
| Total Col1Ave (4 peaks): | | | | 250.0 | Total Col2Ave (4 peaks): | | | | 250.0 | RPD = 0 |
| Corrected Ave (3 peaks): | | | | 250.0 | Corrected Ave (3 peaks): | | | | 250.0 | RPD = 0 |

Total PCB Area Col1 (5.909 - 13.792) = 1237662 Col1 Total PCB = 0.2 ppm*

Total PCB Area Col2 (5.787 - 14.020) = 773955 Col2 Total PCB = 0.2 ppm*

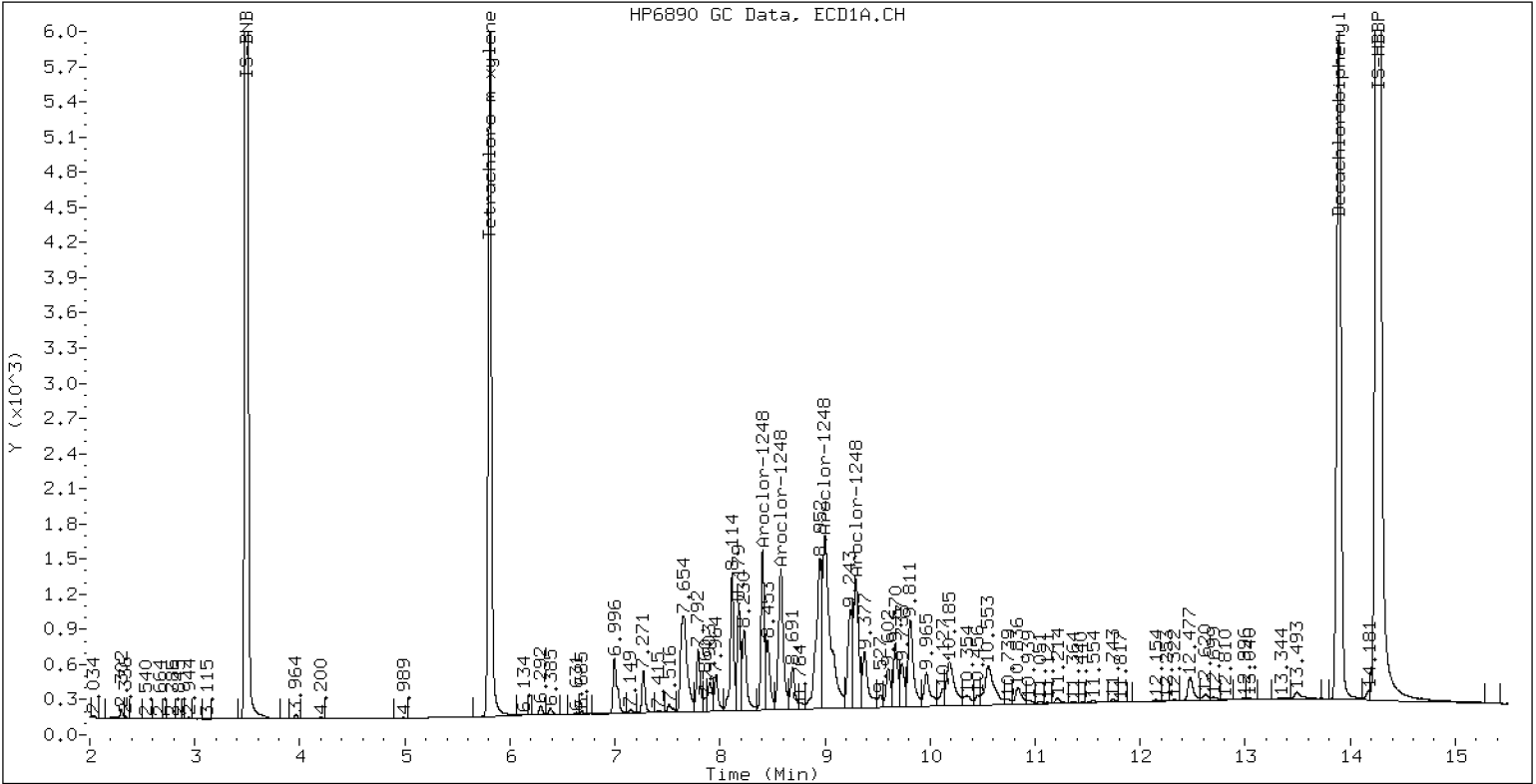
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 0.25PPM 1248

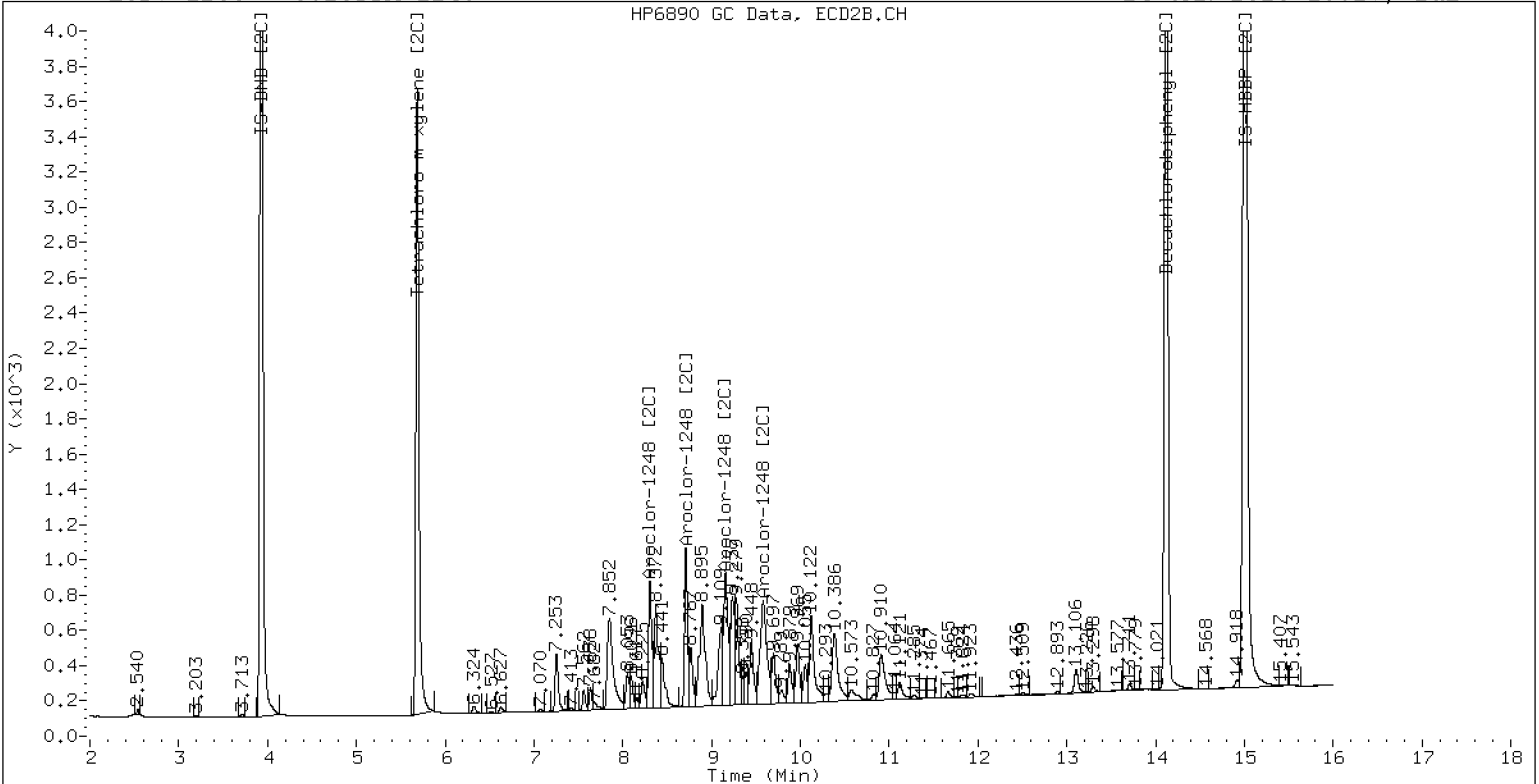
24-JAN-2023 18:27, 2u1



ZB-5 Manual Integration: NO

ECD7-ZB35 0.25PPM 1248

24-JAN-2023 18:27, 2u1



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230124.b/01242321ECD7.D
Data file 2: /230124.b/230124.b/01242321ECD7.D
Method: \\target\share\chem4\ecd7.i\230124.b\PCB.m
Compound Sublist: AR1254.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 0.25PPM 1254
Client ID:
Injection Date: 24-JAN-2023 18:48
Report Date: 01/25/2023 10:53
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

| ZB5 Col | | ZB35 Col | | | ZB5 | ZB35 | RPD | Compound/Flag | |
|---------|--------|----------|--------|--------|----------|--------|------|---------------|----------------------|
| RT | Shift | Response | RT | Shift | Response | on col | | | on col |
| 5.808 | -0.001 | 258819 | 5.684 | -0.002 | 171764 | 37.7 | 38.1 | 1.1 | Tetrachloro-m-xylene |
| 13.893 | 0.001 | 343162 | 14.119 | -0.001 | 283996 | 36.8 | 37.9 | 2.9 | Decachlorobiphenyl |

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1 | | | |
|--------------------|----------------|-------------|------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 503318 | 486231 | -3.4 |
| Hexabromobiphenyl | 647433 | 871523 | 34.6 |

| Column 2 | | | |
|--------------------|----------------|-------------|------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 336911 | 333658 | -1.0 |
| Hexabromobiphenyl | 382032 | 471925 | 23.5 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-JAN-2023
<- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col ZB35 Col

| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount |
|--------------------------|-------|--------|-------|--------|--------------------------|-------|--------|-------|--------|---------|
| Aroclor-1254 | 1 | 9.299 | 0.000 | 123887 | 250.0 | 1 | 9.448 | 0.000 | 60516 | 250.0 |
| Aroclor-1254 | 2 | 9.378 | 0.000 | 52896 | 250.0 | 2 | 9.969 | 0.000 | 48914 | 250.0 |
| Aroclor-1254 | 3 | 9.669 | 0.000 | 79378 | 250.0 | 3 | 10.121 | 0.000 | 106698 | 250.0 |
| Aroclor-1254 | 4 | 9.808 | 0.000 | 155542 | 250.0 | 4 | 10.372 | 0.000 | 106700 | 250.0 |
| Aroclor-1254 | 5 | 10.177 | 0.000 | 101144 | 250.0 | 5 | 10.569 | 0.000 | 59429 | 250.0 |
| Total CollAve (5 peaks): | | | | 250.0 | Total Col2Ave (5 peaks): | | | | 250.0 | RPD = 0 |
| Corrected Ave (4 peaks): | | | | 250.0 | Corrected Ave (4 peaks): | | | | 250.0 | RPD = 0 |

Total PCB Area Coll (5.909 - 13.792) = 1659821 Coll Total PCB = 0.3 ppm*

Total PCB Area Col2 (5.787 - 14.020) = 1016659 Col2 Total PCB = 0.3 ppm*

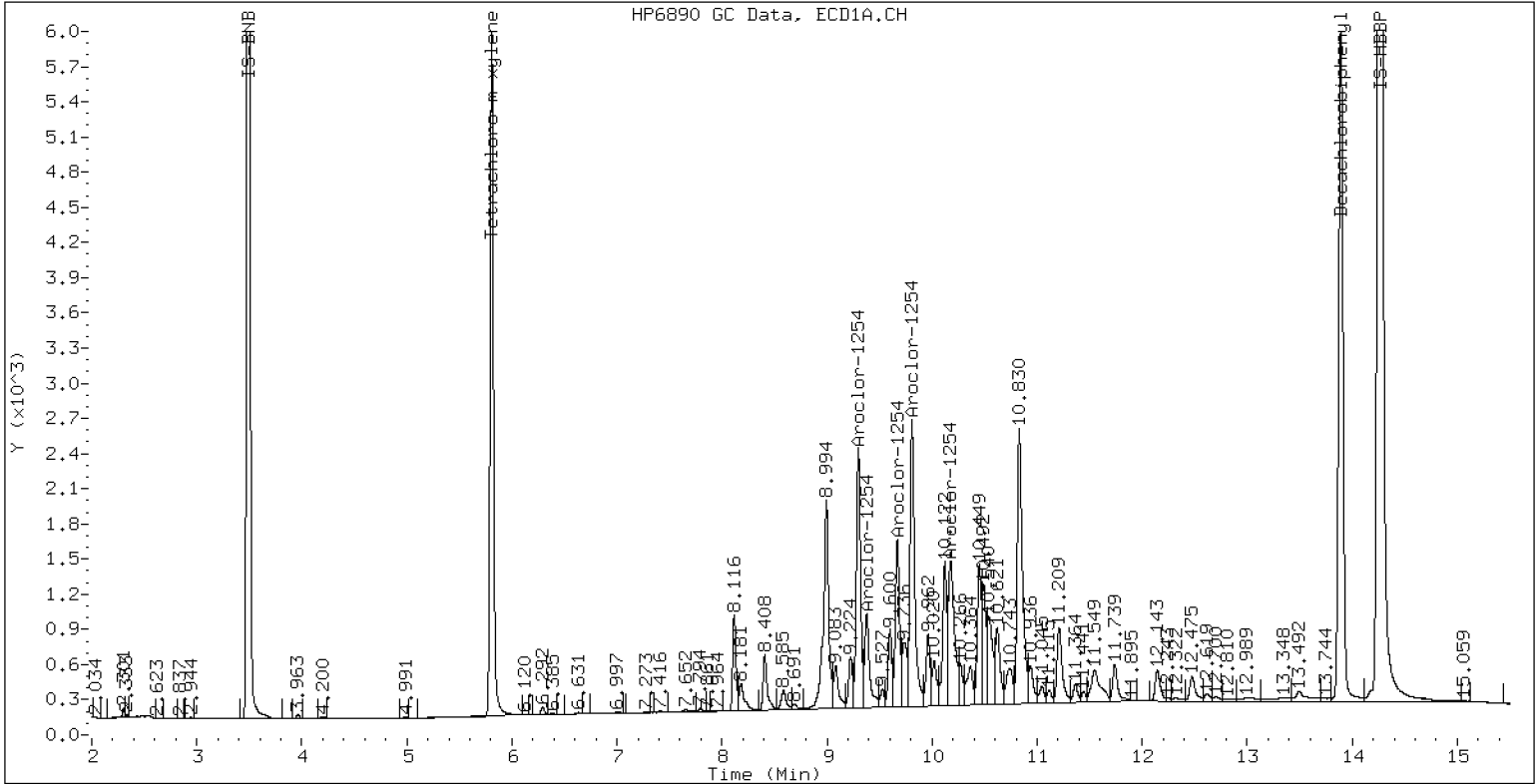
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 0.25PPM 1254

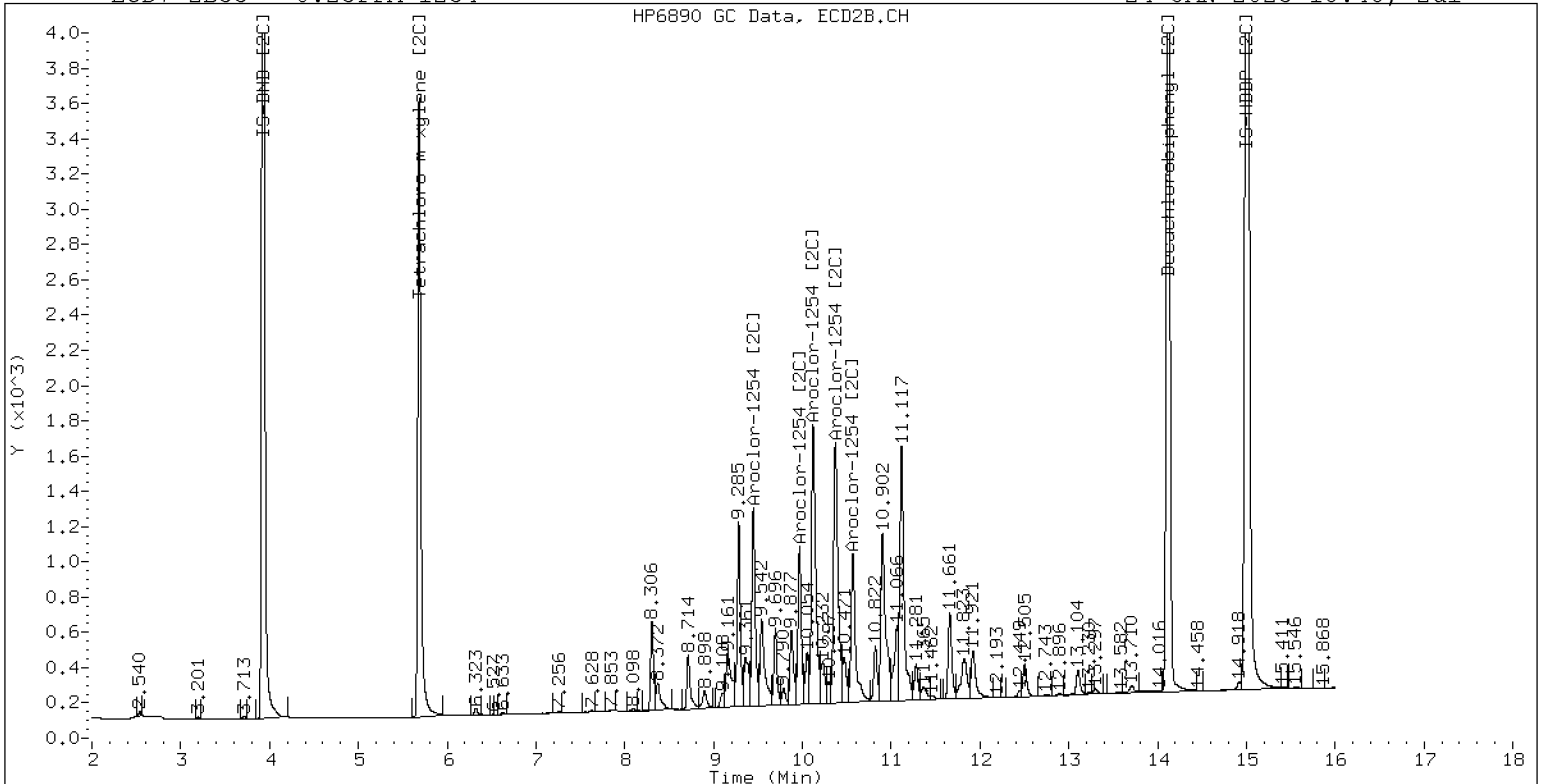
24-JAN-2023 18:48, 2u1



ZB-5 Manual Integration: NO

ECD7-ZB35 0.25PPM 1254

24-JAN-2023 18:48, 2u1



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230124.b/01242322ECD7.D
Data file 2: /230124.b/230124.b/01242322ECD7.D
Method: \\target\share\chem4\ecd7.i\230124.b\PCB.m
Compound Sublist: AR2162.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 0.25PPM 2162
Client ID:
Injection Date: 24-JAN-2023 19:09
Report Date: 01/25/2023 10:53
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

| ZB5 Col | | ZB35 Col | | | ZB5 | ZB35 | RPD | Compound/Flag | |
|---------|--------|----------|--------|--------|----------|--------|------|---------------|----------------------|
| RT | Shift | Response | RT | Shift | Response | on col | | | on col |
| 5.809 | -0.000 | 272296 | 5.686 | -0.001 | 173237 | 39.1 | 38.6 | 1.3 | Tetrachloro-m-xylene |
| 13.893 | 0.001 | 347331 | 14.120 | -0.000 | 282892 | 36.8 | 37.2 | 1.2 | Decachlorobiphenyl |

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1 | | | |
|--------------------|----------------|-------------|------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 503318 | 492470 | -2.2 |
| Hexabromobiphenyl | 647433 | 883652 | 36.5 |

| Column 2 | | | |
|--------------------|----------------|-------------|------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 336911 | 331807 | -1.5 |
| Hexabromobiphenyl | 382032 | 479356 | 25.5 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-JAN-2023
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | | ZB35 Col | | | | |
|--------------------------|-------|-------|-------|-------|--------|--------------------------|-------|-------|-------|---------------|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount |
| Aroclor-1221 | 1 | 4.733 | 0.000 | 9100 | 250.0 | 1 | 4.959 | 0.000 | 6081 | 250.0 |
| Aroclor-1221 | 2 | 6.134 | 0.000 | 18608 | 250.0 | 2 | 6.298 | 0.000 | 13325 | 250.0 |
| Aroclor-1221 | 3 | 6.384 | 0.000 | 43198 | 250.0 | 3 | 6.623 | 0.000 | 22491 | 250.0 |
| Total CollAve (3 peaks): | | | | 250.0 | | Total Col2Ave (3 peaks): | | | | 250.0 RPD = 0 |
| Corrected Ave: < 3 Peaks | | | | | | Corrected Ave: < 3 Peaks | | | | |

| | | | | | | | | | | |
|--------------------------|---|--------|-------|--------|-------|--------------------------|--------|-------|--------|---------------|
| Aroclor-1262 | 1 | 10.832 | 0.000 | 89339 | 250.0 | 1 | 11.200 | 0.000 | 117288 | 250.0 |
| Aroclor-1262 | 2 | 12.246 | 0.000 | 141007 | 250.0 | 2 | 11.653 | 0.000 | 99740 | 250.0 |
| Aroclor-1262 | 3 | 12.321 | 0.000 | 153089 | 250.0 | 3 | 12.434 | 0.000 | 106212 | 250.0 |
| Aroclor-1262 | 4 | 12.989 | 0.000 | 139497 | 250.0 | 4 | 12.504 | 0.000 | 170096 | 250.0 |
| Total CollAve (4 peaks): | | | | 250.0 | | Total Col2Ave (4 peaks): | | | | 250.0 RPD = 0 |
| Corrected Ave (3 peaks): | | | | 250.0 | | Corrected Ave (3 peaks): | | | | 250.0 RPD = 0 |

Total PCB Area Coll (5.909 - 13.792) = 2446612 Coll Total PCB = 0.4 ppm*

Total PCB Area Col2 (5.787 - 14.020) = 1558387 Col2 Total PCB = 0.4 ppm*

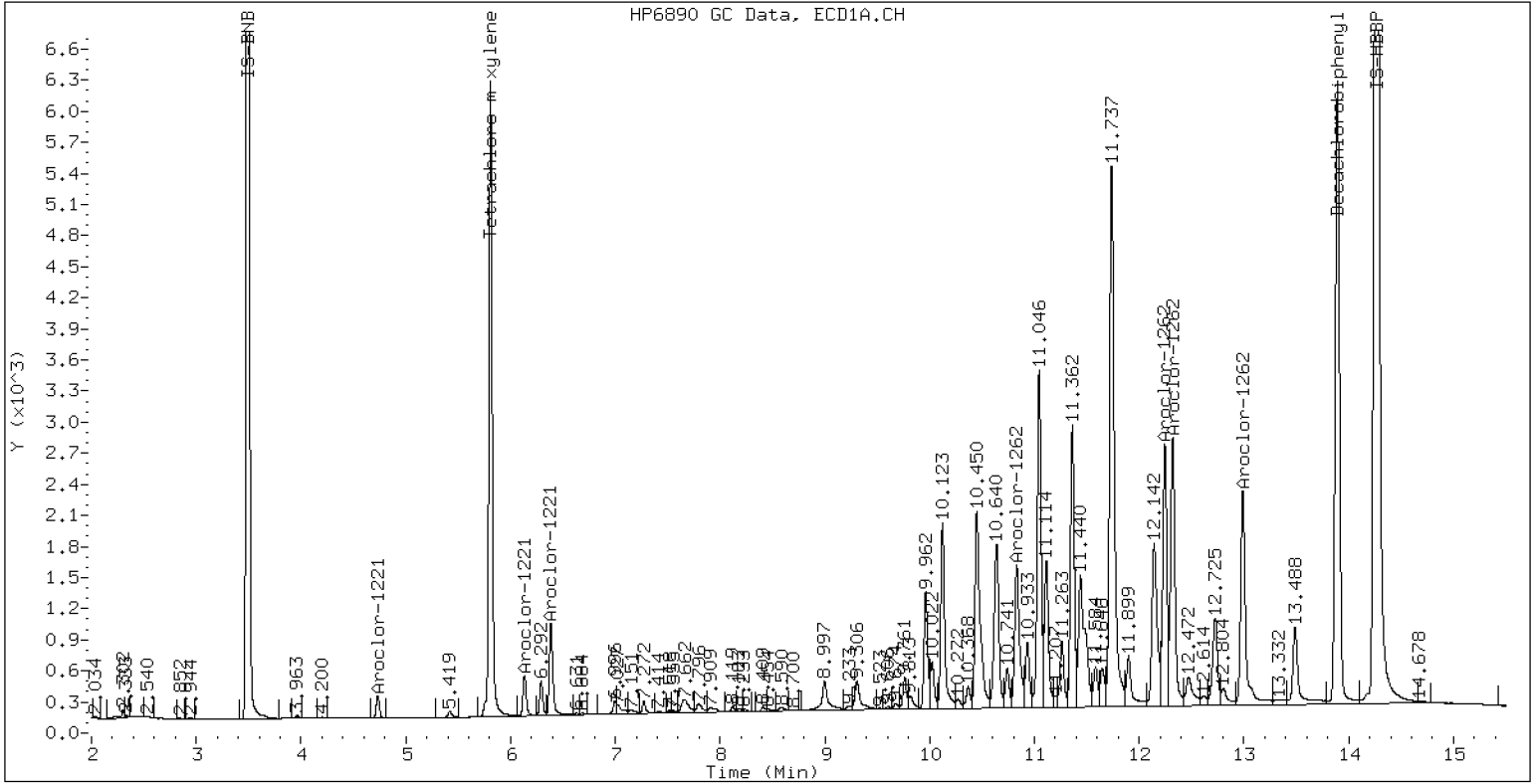
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 0.25PPM 2162

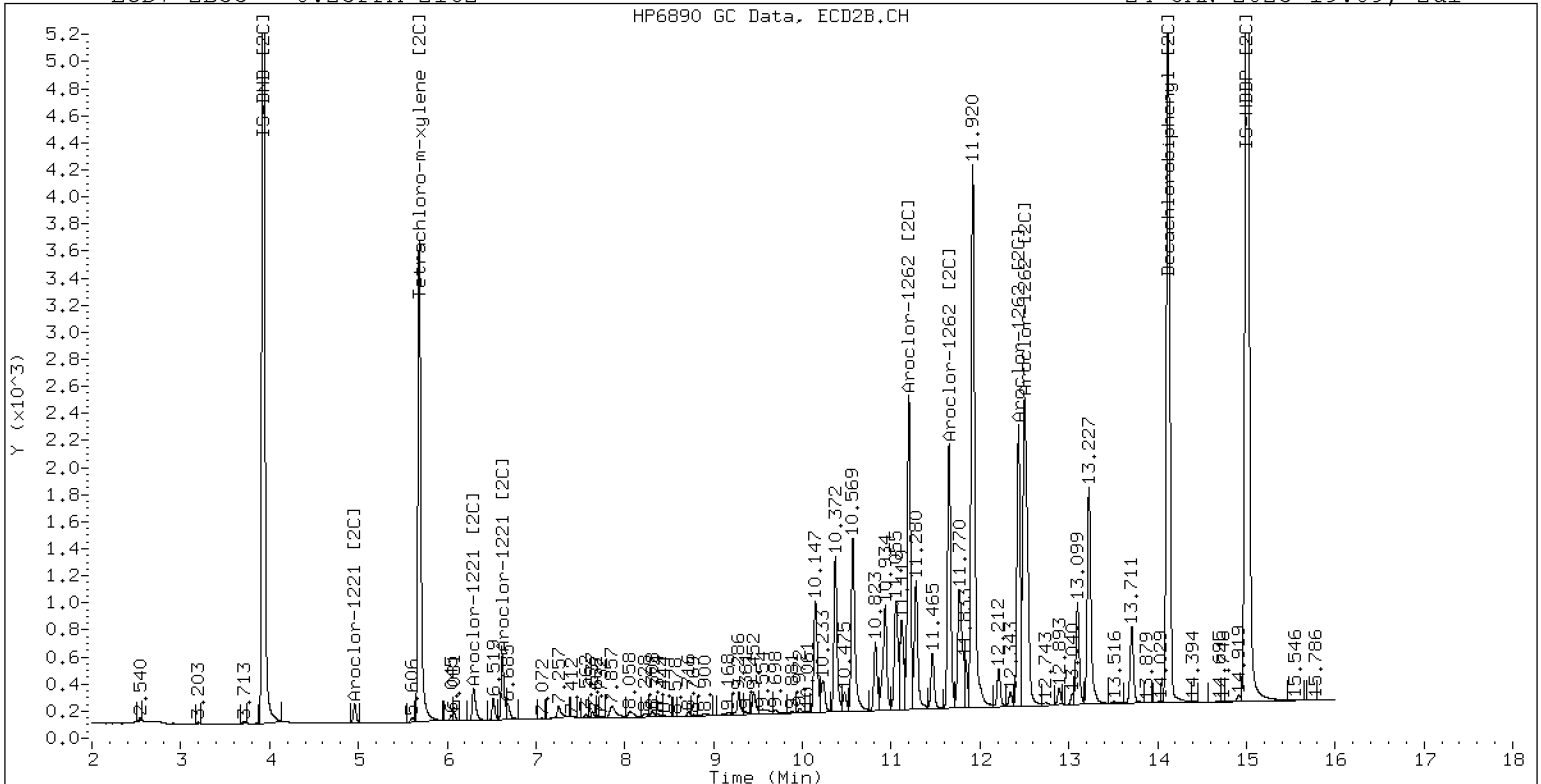
24-JAN-2023 19:09, 2u1



ZB-5 Manual Integration: NO

ECD7-ZB35 0.25PPM 2162

24-JAN-2023 19:09, 2u1



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230124.b/01242323ECD7.D
Data file 2: /230124.b/230124.b/01242323ECD7.D
Method: \\target\share\chem4\ecd7.i\230124.b\PCB.m
Compound Sublist: AR3268.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 0.25PPM 3268
Client ID:
Injection Date: 24-JAN-2023 19:30
Report Date: 01/25/2023 10:53
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

| RT | ZB5 Col Shift | Response | RT | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag |
|--------|------------------|----------|--------|-------------------|----------|---------------|----------------|-----|----------------------|
| 5.809 | 0.000 | 277108 | 5.687 | 0.000 | 177359 | 39.7 | 39.1 | 1.5 | Tetrachloro-m-xylene |
| 13.892 | 0.000 | 525503 | 14.120 | 0.000 | 438987 | 53.8 | 57.7 | 7.0 | Decachlorobiphenyl |

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 503318 | 493427 | -2.0 |
| Hexabromobiphenyl | 647433 | 913614 | 41.1 |

| Standard Cpnd | Column 2 | | |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 336911 | 335121 | -0.5 |
| Hexabromobiphenyl | 382032 | 479458 | 25.5 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-JAN-2023
<- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col ZB35 Col

| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount |
|--------------------------|-------|-------|-------|-------|--------------------------|-------|-------|-------|-------|---------|
| Aroclor-1232 | 1 | 4.733 | 0.000 | 5692 | 250.0 | 1 | 4.960 | 0.000 | 3725 | 250.0 |
| Aroclor-1232 | 2 | 6.133 | 0.000 | 12828 | 250.0 | 2 | 7.257 | 0.000 | 20847 | 250.0 |
| Aroclor-1232 | 3 | 7.658 | 0.000 | 64153 | 250.0 | 3 | 7.854 | 0.000 | 42459 | 250.0 |
| Aroclor-1232 | 4 | 8.584 | 0.000 | 27460 | 250.0 | 4 | 8.714 | 0.000 | 11797 | 250.0 |
| Total CollAve (4 peaks): | | | | 250.0 | Total Col2Ave (4 peaks): | | | | 250.0 | RPD = 0 |
| Corrected Ave (3 peaks): | | | | 250.0 | Corrected Ave (3 peaks): | | | | 250.0 | RPD = 0 |

| | | | | | | | | | | |
|--------------------------|---|--------|-------|--------|--------------------------|---|--------|-------|--------|---------|
| Aroclor-1268 | 1 | 12.245 | 0.000 | 377314 | 250.0 | 1 | 12.434 | 0.000 | 279910 | 250.0 |
| Aroclor-1268 | 2 | 12.318 | 0.000 | 376282 | 250.0 | 2 | 12.501 | 0.000 | 297867 | 250.0 |
| Aroclor-1268 | 3 | 12.699 | 0.000 | 311753 | 250.0 | 3 | 12.893 | 0.000 | 247943 | 250.0 |
| Aroclor-1268 | 4 | 13.489 | 0.000 | 924293 | 250.0 | 4 | 13.709 | 0.000 | 765898 | 250.0 |
| Total CollAve (4 peaks): | | | | 250.0 | Total Col2Ave (4 peaks): | | | | 250.0 | RPD = 0 |
| Corrected Ave (3 peaks): | | | | 250.0 | Corrected Ave (3 peaks): | | | | 250.0 | RPD = 0 |

Total PCB Area Coll (5.909 - 13.792) = 3136879 Coll Total PCB = 0.5 ppm*

Total PCB Area Col2 (5.787 - 14.020) = 2269104 Col2 Total PCB = 0.6 ppm*

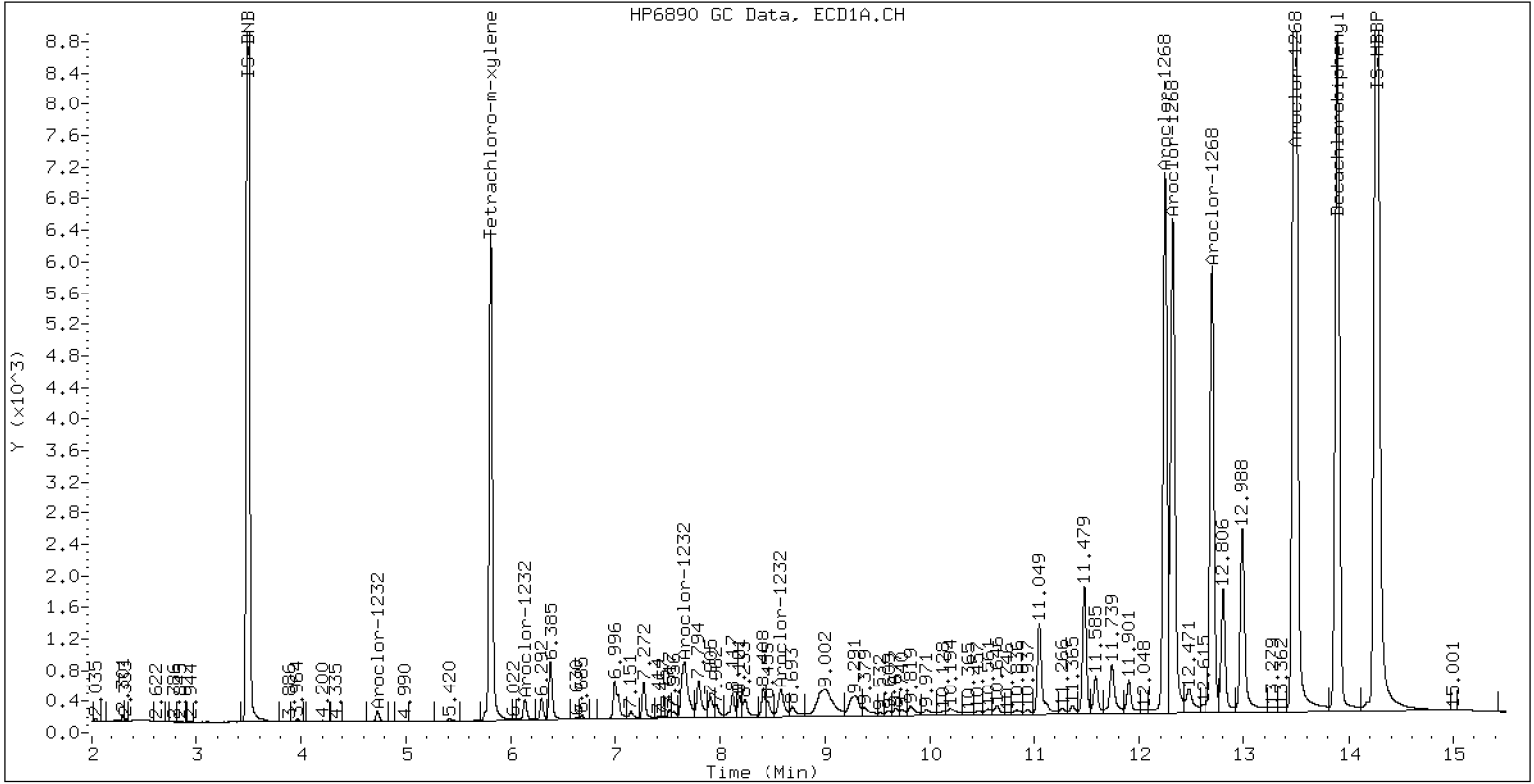
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 0.25PPM 3268

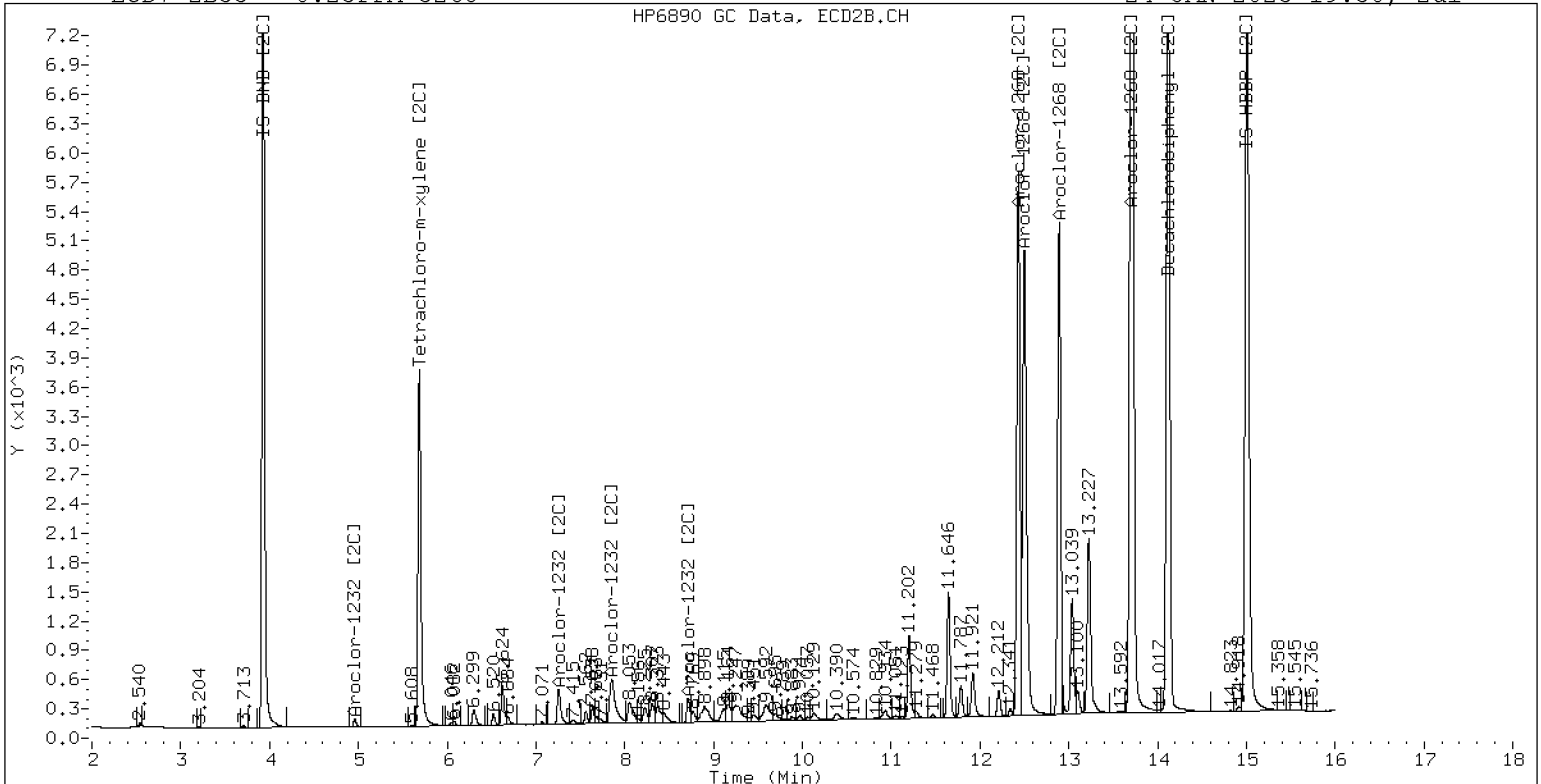
24-JAN-2023 19:30, 2u1



ZB-5 Manual Integration: NO

ECD7-ZB35 0.25PPM 3268

24-JAN-2023 19:30, 2u1

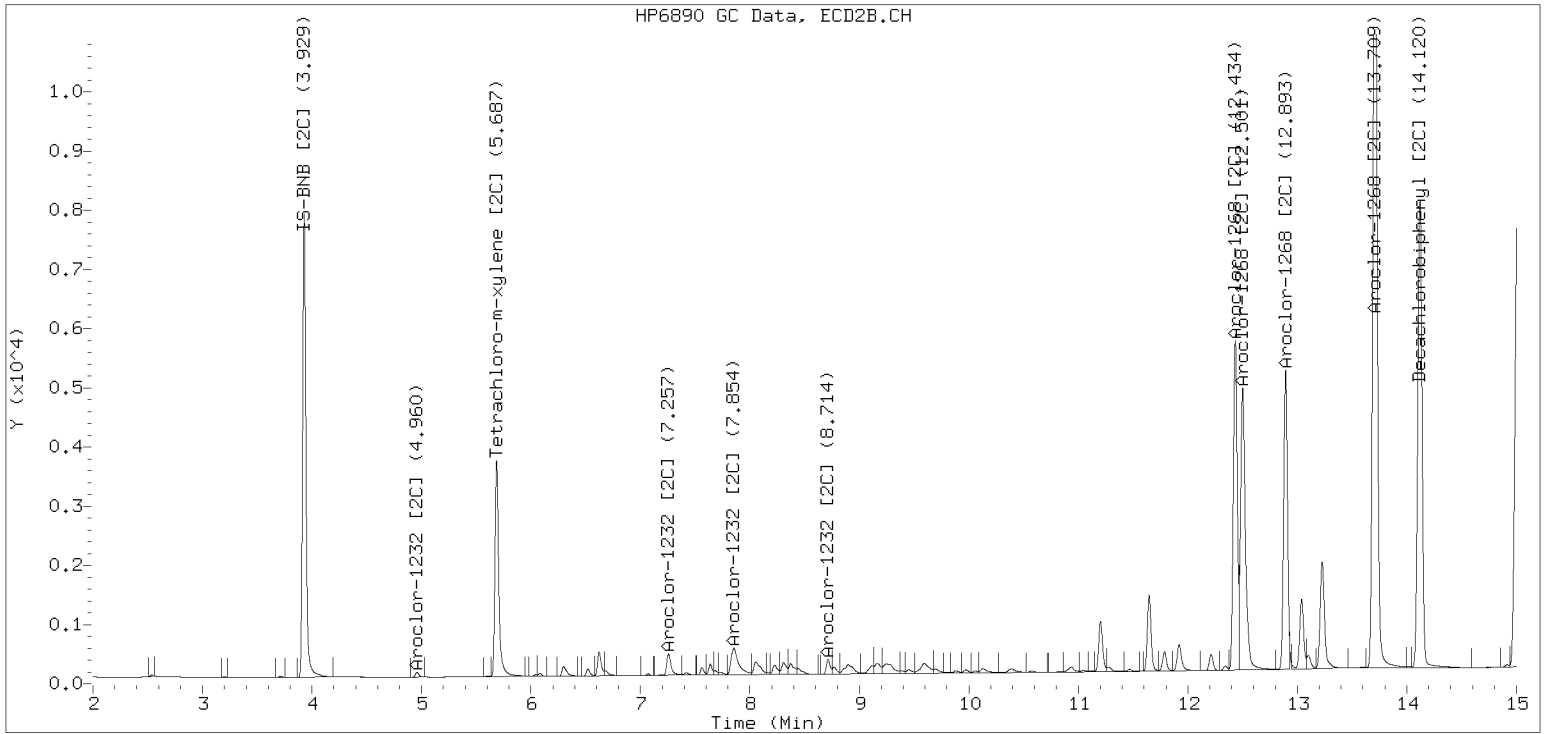


ZB-35 Manual Integration: YES

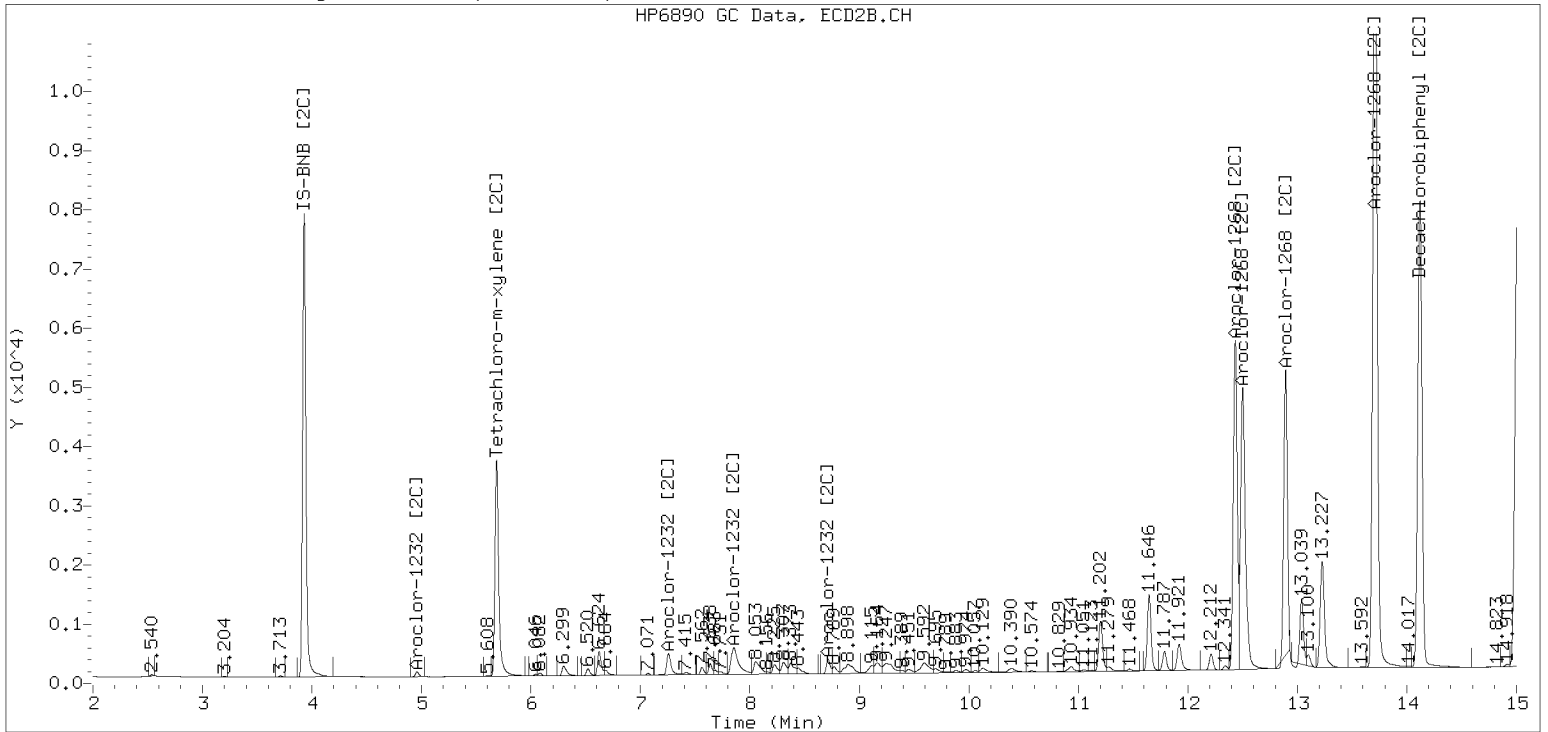
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230124.b/230124.b/01242323ECD7.D Injection Date: 24-JAN-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230124.b/01242324ECD7.D
Data file 2: /230124.b/230124.b/01242324ECD7.D
Method: \\target\share\chem4\ecd7.i\230124.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660 SCV
Client ID:
Injection Date: 24-JAN-2023 19:51
Report Date: 01/25/2023 10:53
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

| RT | ZB5 Col Shift | Response | RT | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag |
|--------|---------------|----------|--------|----------------|----------|------------|-------------|-----|----------------------|
| 5.809 | -0.000 | 268739 | 5.686 | -0.001 | 172961 | 37.5 | 37.3 | 0.6 | Tetrachloro-m-xylene |
| 13.891 | -0.000 | 381489 | 14.121 | 0.001 | 320416 | 37.9 | 40.2 | 5.9 | Decachlorobiphenyl |

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 503318 | 506576 | 0.6 |
| Hexabromobiphenyl | 647433 | 940129 | 45.2 |

| Standard Cpnd | Column 2 | | |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 336911 | 343102 | 1.8 |
| Hexabromobiphenyl | 382032 | 501702 | 31.3 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-JAN-2023
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | ZB35 Col | | | | | |
|--------------------------|-------|--------|--------|--------|----------|--------------------------|--------|--------|--------|-----------------|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount |
| Aroclor-1016 | 1 | 7.271 | 0.001 | 40958 | 217.6 | 1 | 7.255 | 0.001 | 40190 | 216.0 |
| Aroclor-1016 | 2 | 7.655 | 0.004 | 135282 | 216.9 | 2 | 7.852 | 0.001 | 90338 | 221.5 |
| Aroclor-1016 | 3 | 7.791 | 0.003 | 61557 | 214.5 | 3 | 8.052 | 0.002 | 37810 | 227.2 |
| Aroclor-1016 | 4 | 8.406 | 0.002 | 40372 | 218.7 | 4 | 8.306 | 0.000 | 28171 | 215.9 |
| Total CollAve (4 peaks): | | | | 216.9 | | Total Col2Ave (4 peaks): | | | | 220.2 RPD = 1 |
| Corrected Ave (3 peaks): | | | | 216.3 | | Corrected Ave (3 peaks): | | | | 217.8 RPD = 1 |
| | | | | | | | | | | |
| Aroclor-1221 | 1 | 4.732 | -0.001 | 256 | 6.8 | 1 | --- | | | 0.0 |
| Aroclor-1221 | 2 | 6.131 | -0.002 | 4742 | 61.9 | 2 | 6.302 | 0.004 | 5037 | 91.4 |
| Aroclor-1221 | 3 | 6.384 | -0.000 | 27448 | 154.4 | 3 | 6.623 | -0.000 | 18931 | 203.5 |
| Total CollAve (3 peaks): | | | | 74.4 | | Col2Ave: <3 Quant Peaks | | | | |
| | | | | | | | | | | |
| Aroclor-1232 | 1 | 4.732 | -0.001 | 256 | 11.0 | 1 | --- | | | 0.0 |
| Aroclor-1232 | 2 | 6.131 | -0.002 | 4742 | 90.0 | 2 | 7.255 | -0.001 | 40190 | 470.8 |
| Aroclor-1232 | 3 | 7.655 | -0.004 | 135282 | 513.5 | 3 | 7.852 | -0.002 | 90338 | 519.5 |
| Aroclor-1232 | 4 | 8.581 | -0.003 | 56938 | 504.9 | 4 | 8.713 | -0.001 | 27776 | 574.9 |
| Total CollAve (4 peaks): | | | | 279.8 | | Total Col2Ave (3 peaks): | | | | 521.7 RPD = 60* |
| Corrected Ave (3 peaks): | | | | 202.0 | | Corrected Ave: < 3 Peaks | | | | |
| | | | | | | | | | | |
| Aroclor-1242 | 1 | 7.271 | -0.000 | 40958 | 264.0 | 1 | 7.255 | -0.000 | 40190 | 267.8 |
| Aroclor-1242 | 2 | 7.655 | -0.001 | 135282 | 266.5 | 2 | 7.852 | -0.001 | 90338 | 271.0 |
| Aroclor-1242 | 3 | 8.406 | -0.001 | 40372 | 267.7 | 3 | 9.115 | -0.045 | 15827 | 151.6 |
| Aroclor-1242 | 4 | 8.581 | -0.000 | 56938 | 249.9 | 4 | 9.587 | 0.001 | 3186 | 23.0 |
| Total CollAve (4 peaks): | | | | 262.0 | | Total Col2Ave (4 peaks): | | | | 178.4 RPD = 38 |
| Corrected Ave (3 peaks): | | | | 260.1 | | Corrected Ave (3 peaks): | | | | 147.5 RPD = 55* |
| | | | | | | | | | | |
| Aroclor-1248 | 1 | 8.406 | 0.000 | 40372 | 159.3 | 1 | 8.306 | 0.000 | 28171 | 181.6 |
| Aroclor-1248 | 2 | 8.581 | 0.001 | 56938 | 176.1 | 2 | 8.713 | 0.000 | 27776 | 166.4 |
| Aroclor-1248 | 3 | 8.995 | -0.004 | 58213 | 94.1 | 3 | 9.115 | -0.042 | 15827 | 77.6 |
| Aroclor-1248 | 4 | 9.304 | 0.010 | 36620 | 119.6 | 4 | 9.587 | 0.006 | 3186 | 12.6 |
| Total CollAve (4 peaks): | | | | 137.3 | | Total Col2Ave (4 peaks): | | | | 109.6 RPD = 22 |
| Corrected Ave (3 peaks): | | | | 124.4 | | Corrected Ave (3 peaks): | | | | 85.5 RPD = 37 |
| | | | | | | | | | | |
| Aroclor-1254 | 1 | 9.304 | 0.005 | 36620 | 70.9 | 1 | 9.450 | 0.002 | 20792 | 83.5 |
| Aroclor-1254 | 2 | --- | | | 0.0 | 2 | 9.972 | 0.003 | 2640 | 13.1 |
| Aroclor-1254 | 3 | 9.673 | 0.003 | 4075 | 12.3 | 3 | 10.148 | 0.027 | 52902 | 120.5 |
| Aroclor-1254 | 4 | 9.813 | 0.004 | 14733 | 22.7 | 4 | 10.372 | 0.000 | 71680 | 163.3 |
| Aroclor-1254 | 5 | 10.122 | -0.055 | 119528 | 283.6 | 5 | 10.569 | -0.000 | 98559 | 403.2 |
| Total CollAve (4 peaks): | | | | 97.4 | | Total Col2Ave (5 peaks): | | | | 156.7 RPD = 47* |
| Corrected Ave (3 peaks): | | | | 35.3 | | Corrected Ave (4 peaks): | | | | 95.1 RPD = 92* |
| | | | | | | | | | | |
| Aroclor-1260 | 1 | 11.045 | 0.002 | 116435 | 220.7 | 1 | 11.654 | 0.000 | 81795 | 226.0 |
| Aroclor-1260 | 2 | 11.362 | 0.001 | 116918 | 215.6 | 2 | 11.920 | 0.002 | 217887 | 238.0 |
| Aroclor-1260 | 3 | 11.738 | 0.003 | 303264 | 212.5 | 3 | 12.437 | 0.001 | 56212 | 246.3 |
| Aroclor-1260 | 4 | 12.143 | 0.004 | 141534 | 191.9 | 4 | 12.502 | 0.000 | 142689 | 240.8 |
| Aroclor-1260 | 5 | 12.246 | 0.002 | 68446 | 212.9 | NS | --- | | | ---- |
| Total CollAve (5 peaks): | | | | 210.7 | | Total Col2Ave (4 peaks): | | | | 237.8 RPD = 12 |
| Corrected Ave (4 peaks): | | | | 208.2 | | Corrected Ave (3 peaks): | | | | 234.9 RPD = 12 |
| | | | | | | | | | | |
| Aroclor-1262 | 1 | 10.830 | -0.002 | 169725 | 446.4 | 1 | 11.200 | 0.000 | 83995 | 171.1 |
| Aroclor-1262 | 2 | 12.246 | 0.000 | 68446 | 114.1 | 2 | 11.654 | 0.001 | 81795 | 195.9 |
| Aroclor-1262 | 3 | 12.320 | -0.000 | 84201 | 129.2 | 3 | 12.437 | 0.003 | 56212 | 126.4 |
| Aroclor-1262 | 4 | 12.989 | -0.000 | 78065 | 131.5 | 4 | 12.502 | -0.001 | 142689 | 200.4 |
| Total CollAve (4 peaks): | | | | 205.3 | | Total Col2Ave (4 peaks): | | | | 173.4 RPD = 17 |
| Corrected Ave (3 peaks): | | | | 124.9 | | Corrected Ave (3 peaks): | | | | 164.5 RPD = 27 |
| | | | | | | | | | | |
| Aroclor-1268 | 1 | 12.246 | 0.001 | 68446 | 44.1 | 1 | 12.437 | 0.003 | 56212 | 48.0 |
| Aroclor-1268 | 2 | 12.320 | 0.002 | 84201 | 54.4 | 2 | 12.502 | 0.001 | 142689 | 114.4 |
| Aroclor-1268 | 3 | 12.726 | 0.027 | 33020 | 25.7 | 3 | 12.894 | 0.001 | 1495 | 1.4 |
| Aroclor-1268 | 4 | 13.490 | 0.001 | 16019 | 4.2 | 4 | 13.709 | 0.001 | 10120 | 3.2 |
| Total CollAve (4 peaks): | | | | 32.1 | | Total Col2Ave (4 peaks): | | | | 41.8 RPD = 26 |
| Corrected Ave (3 peaks): | | | | 24.7 | | Corrected Ave (3 peaks): | | | | 17.5 RPD = 34 |

Total PCB Area Col1 (5.909 - 13.792) = 2789370 Col1 Total PCB = 0.5 ppm*

Total PCB Area Col2 (5.787 - 14.020) = 1810543 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230124.b/01242325ECD7.D
Data file 2: /230124.b/230124.b/01242325ECD7.D
Method: \\target\share\chem4\ecd7.i\230124.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1242 SCV
Client ID:
Injection Date: 24-JAN-2023 20:12
Report Date: 01/25/2023 10:53
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

| ZB5 Col | | ZB35 Col | | | ZB5 | ZB35 | RPD | Compound/Flag | |
|---------|--------|----------|--------|--------|----------|--------|------|---------------|----------------------|
| RT | Shift | Response | RT | Shift | Response | on col | | | on col |
| 5.809 | -0.000 | 268580 | 5.686 | -0.001 | 172592 | 37.8 | 37.4 | 1.1 | Tetrachloro-m-xylene |
| 13.892 | 0.001 | 392918 | 14.121 | 0.001 | 323869 | 38.5 | 40.3 | 4.6 | Decachlorobiphenyl |

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1 | | | |
|--------------------|----------------|-------------|------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 503318 | 503089 | -0.0 |
| Hexabromobiphenyl | 647433 | 953137 | 47.2 |
| Column 2 | | | |
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 336911 | 341704 | 1.4 |
| Hexabromobiphenyl | 382032 | 505860 | 32.4 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-JAN-2023
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | ZB35 Col | | | | | |
|--------------------------|-------|--------|--------|--------|----------|--------------------------|--------|--------|-------|-----------------|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount |
| Aroclor-1016 | 1 | 7.271 | 0.001 | 29901 | 159.9 | 1 | 7.255 | 0.000 | 32077 | 173.1 |
| Aroclor-1016 | 2 | 7.653 | 0.003 | 107333 | 173.3 | 2 | 7.851 | -0.000 | 71438 | 175.9 |
| Aroclor-1016 | 3 | 7.790 | 0.002 | 45013 | 157.9 | 3 | 8.051 | 0.001 | 29072 | 175.4 |
| Aroclor-1016 | 4 | 8.406 | 0.002 | 32958 | 179.8 | 4 | 8.306 | 0.001 | 21761 | 167.5 |
| Total CollAve (4 peaks): | | | | 167.7 | | Total Col2Ave (4 peaks): | | | | 173.0 RPD = 3 |
| Corrected Ave (3 peaks): | | | | 163.7 | | Corrected Ave (3 peaks): | | | | 172.0 RPD = 5 |
| | | | | | | | | | | |
| Aroclor-1221 | 1 | 4.737 | 0.004 | 141 | 3.8 | 1 | --- | | | 0.0 |
| Aroclor-1221 | 2 | 6.133 | -0.001 | 3649 | 48.0 | 2 | 6.317 | 0.018 | 4290 | 78.2 |
| Aroclor-1221 | 3 | 6.384 | -0.000 | 21189 | 120.0 | 3 | 6.624 | 0.001 | 14613 | 157.7 |
| Total CollAve (3 peaks): | | | | 57.3 | | Col2Ave: <3 Quant Peaks | | | | |
| | | | | | | | | | | |
| Aroclor-1232 | 1 | 4.737 | 0.003 | 141 | 6.1 | 1 | --- | | | 0.0 |
| Aroclor-1232 | 2 | 6.133 | -0.001 | 3649 | 69.7 | 2 | 7.255 | -0.002 | 32077 | 377.3 |
| Aroclor-1232 | 3 | 7.653 | -0.005 | 107333 | 410.2 | 3 | 7.851 | -0.004 | 71438 | 412.5 |
| Aroclor-1232 | 4 | 8.581 | -0.003 | 59617 | 532.3 | 4 | 8.713 | -0.000 | 22563 | 468.9 |
| Total CollAve (4 peaks): | | | | 254.6 | | Total Col2Ave (3 peaks): | | | | 419.6 RPD = 49* |
| Corrected Ave (3 peaks): | | | | 162.0 | | Corrected Ave: < 3 Peaks | | | | |
| | | | | | | | | | | |
| Aroclor-1242 | 1 | 7.271 | 0.000 | 29901 | 194.1 | 1 | 7.255 | -0.001 | 32077 | 214.6 |
| Aroclor-1242 | 2 | 7.653 | -0.002 | 107333 | 212.9 | 2 | 7.851 | -0.002 | 71438 | 215.2 |
| Aroclor-1242 | 3 | 8.406 | -0.000 | 32958 | 220.0 | 3 | 9.156 | -0.004 | 27374 | 263.3 |
| Aroclor-1242 | 4 | 8.581 | -0.000 | 59617 | 263.5 | 4 | 9.581 | -0.006 | 34156 | 247.9 |
| Total CollAve (4 peaks): | | | | 222.6 | | Total Col2Ave (4 peaks): | | | | 235.3 RPD = 6 |
| Corrected Ave (3 peaks): | | | | 209.0 | | Corrected Ave (3 peaks): | | | | 225.9 RPD = 8 |
| | | | | | | | | | | |
| Aroclor-1248 | 1 | 8.406 | 0.001 | 32958 | 131.0 | 1 | 8.306 | 0.001 | 21761 | 140.9 |
| Aroclor-1248 | 2 | 8.581 | 0.001 | 59617 | 185.7 | 2 | 8.713 | 0.001 | 22563 | 135.7 |
| Aroclor-1248 | 3 | 9.003 | 0.004 | 72557 | 118.2 | 3 | 9.156 | -0.000 | 27374 | 134.7 |
| Aroclor-1248 | 4 | 9.296 | 0.003 | 28122 | 92.5 | 4 | 9.581 | -0.001 | 34156 | 135.9 |
| Total CollAve (4 peaks): | | | | 131.8 | | Total Col2Ave (4 peaks): | | | | 136.8 RPD = 4 |
| Corrected Ave (3 peaks): | | | | 113.9 | | Corrected Ave (3 peaks): | | | | 135.5 RPD = 17 |
| | | | | | | | | | | |
| Aroclor-1254 | 1 | 9.296 | -0.002 | 28122 | 54.8 | 1 | 9.448 | 0.000 | 11650 | 47.0 |
| Aroclor-1254 | 2 | 9.380 | 0.002 | 9292 | 42.4 | 2 | 9.968 | -0.001 | 7642 | 38.1 |
| Aroclor-1254 | 3 | 9.671 | 0.001 | 12871 | 39.2 | 3 | 10.120 | -0.001 | 16012 | 36.6 |
| Aroclor-1254 | 4 | 9.808 | -0.000 | 22113 | 34.4 | 4 | 10.378 | 0.007 | 16300 | 37.3 |
| Aroclor-1254 | 5 | 10.176 | -0.001 | 17771 | 42.5 | 5 | 10.572 | 0.004 | 4439 | 18.2 |
| Total CollAve (5 peaks): | | | | 42.7 | | Total Col2Ave (5 peaks): | | | | 35.5 RPD = 18 |
| Corrected Ave (4 peaks): | | | | 39.6 | | Corrected Ave (4 peaks): | | | | 32.6 RPD = 19 |
| | | | | | | | | | | |
| Aroclor-1260 | 1 | 11.047 | 0.003 | 741 | 1.4 | 1 | 11.663 | 0.010 | 1794 | 4.9 |
| Aroclor-1260 | 2 | 11.366 | 0.006 | 379 | 0.7 | 2 | 11.923 | 0.005 | 1208 | 1.3 |
| Aroclor-1260 | 3 | 11.745 | 0.011 | 860 | 0.6 | 3 | 12.507 | 0.071 | 977 | 4.2 |
| Aroclor-1260 | 4 | 12.154 | 0.014 | 1536 | 2.1 | 4 | --- | | | 0.0 |
| Aroclor-1260 | 5 | --- | | | 0.0 | NS | --- | | | ---- |
| Total CollAve (4 peaks): | | | | 1.2 | | Total Col2Ave (3 peaks): | | | | 3.5 RPD = 99* |
| Corrected Ave (3 peaks): | | | | 0.9 | | Corrected Ave: < 3 Peaks | | | | |
| | | | | | | | | | | |
| Aroclor-1262 | 1 | 10.836 | 0.004 | 10654 | 27.6 | 1 | 11.120 | -0.080 | 8071 | 16.3 |
| Aroclor-1262 | 2 | 12.154 | -0.092 | 1536 | 2.5 | 2 | 11.663 | 0.010 | 1794 | 4.3 |
| Aroclor-1262 | 3 | --- | | | 0.0 | 3 | 12.507 | 0.073 | 977 | 2.2 |
| Aroclor-1262 | 4 | 13.040 | 0.051 | 1739 | 2.9 | 4 | --- | | | 0.0 |
| Total CollAve (3 peaks): | | | | 11.0 | | Total Col2Ave (3 peaks): | | | | 7.6 RPD = 37 |
| Corrected Ave: < 3 Peaks | | | | | | Corrected Ave: < 3 Peaks | | | | |
| | | | | | | | | | | |
| Aroclor-1268 | 1 | 12.154 | -0.091 | 1536 | 1.0 | 1 | 12.507 | 0.073 | 977 | 0.8 |
| Aroclor-1268 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 |
| Aroclor-1268 | 3 | 12.623 | -0.076 | 5080 | 3.9 | 3 | 12.894 | 0.001 | 98 | 0.1 |
| Aroclor-1268 | 4 | 13.501 | 0.012 | 2725 | 0.7 | 4 | 13.707 | -0.001 | 1566 | 0.5 |
| Total CollAve (3 peaks): | | | | 1.9 | | Total Col2Ave (3 peaks): | | | | 0.5 RPD = 120* |
| Corrected Ave: < 3 Peaks | | | | | | Corrected Ave: < 3 Peaks | | | | |

Total PCB Area Col1 (5.909 - 13.792) = 915887 Col1 Total PCB = 0.2 ppm*

Total PCB Area Col2 (5.787 - 14.020) = 575897 Col2 Total PCB = 0.2 ppm*

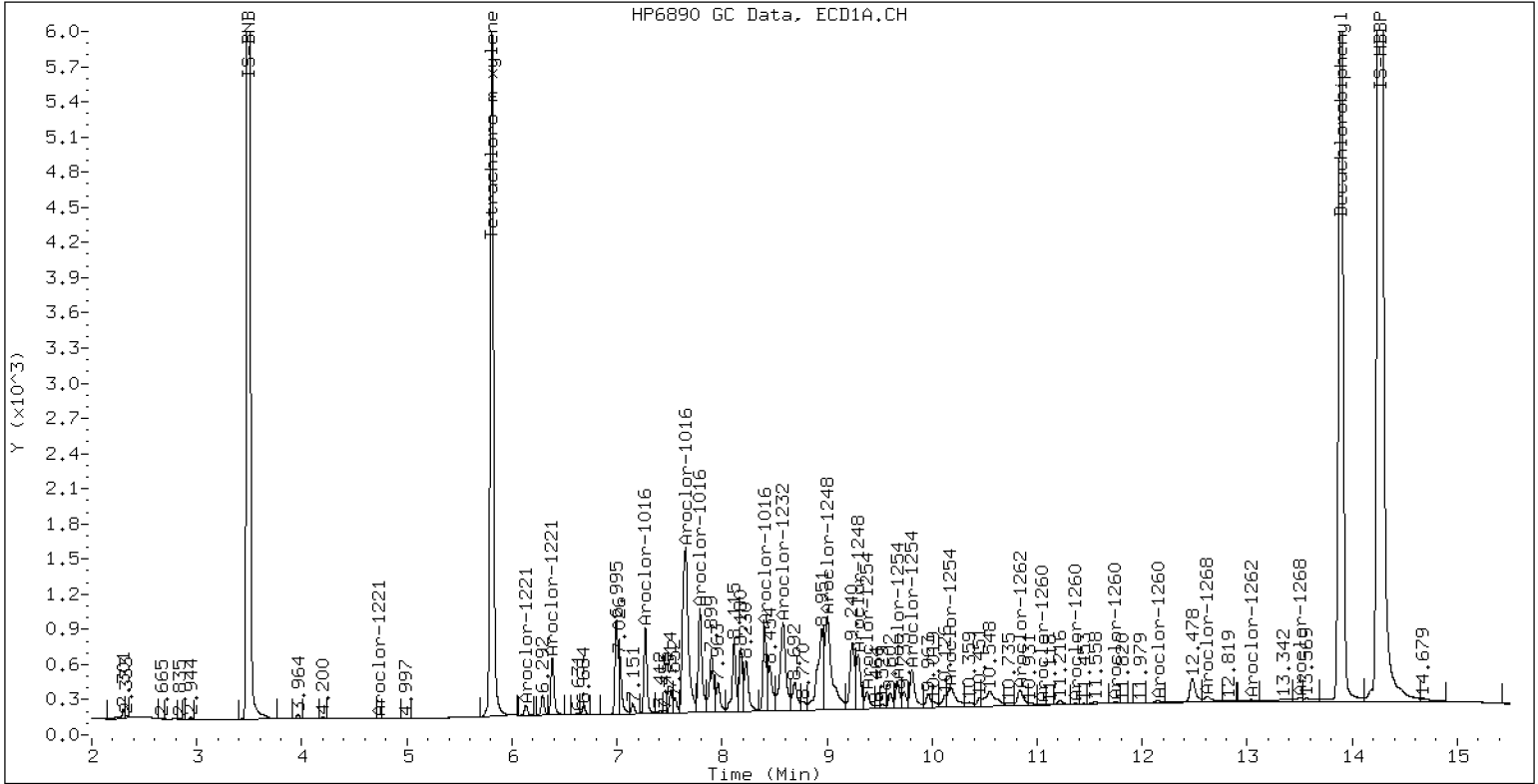
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 AR1242 SCV

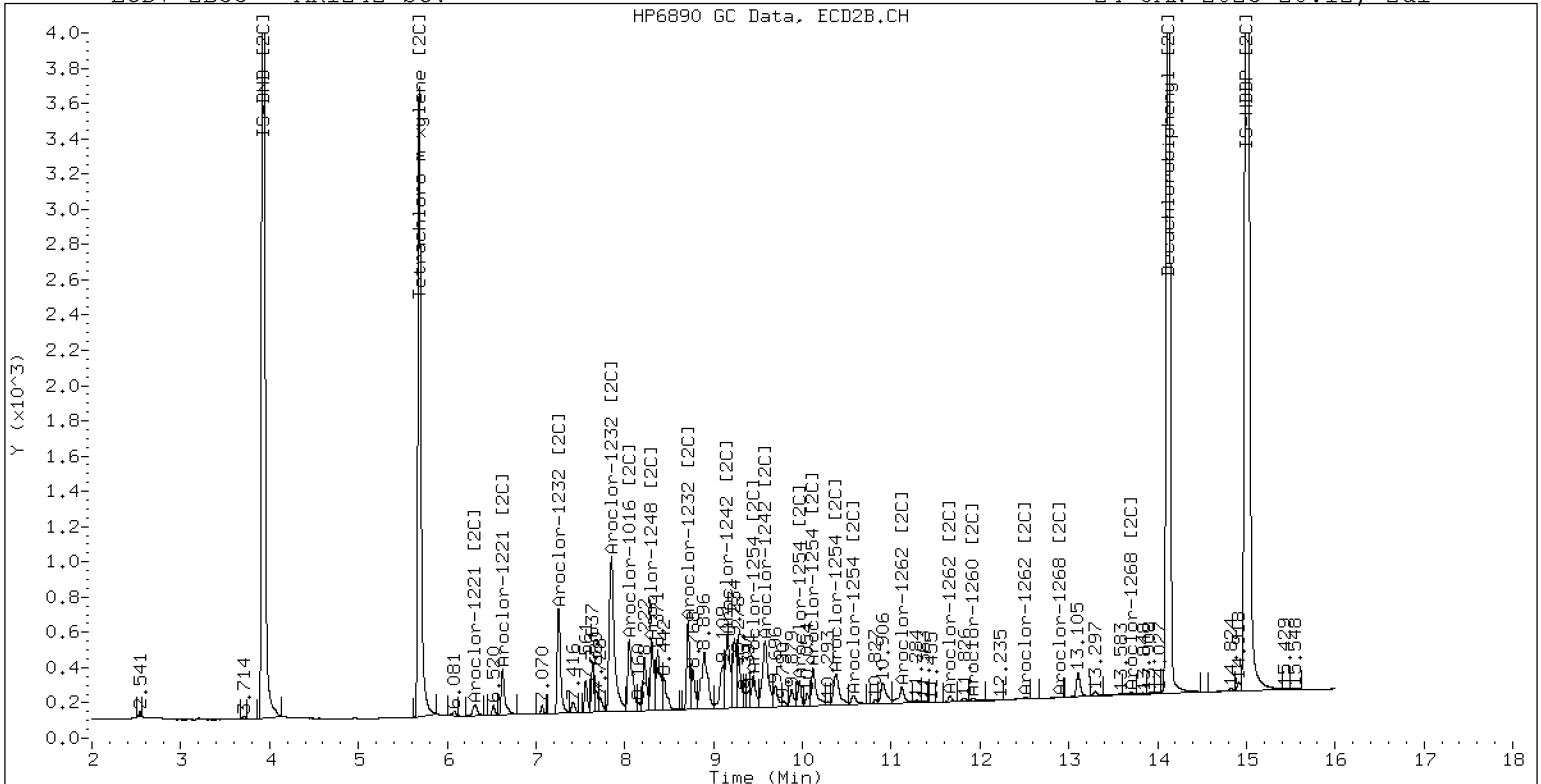
24-JAN-2023 20:12, 2u1



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1242 SCV

24-JAN-2023 20:12, 2u1



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230124.b/01242326ECD7.D
Data file 2: /230124.b/230124.b/01242326ECD7.D
Method: \\target\share\chem4\ecd7.i\230124.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1248 SCV
Client ID:
Injection Date: 24-JAN-2023 20:33
Report Date: 01/25/2023 10:53
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

| RT | ZB5 Col Shift | Response | RT | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag |
|--------|------------------|----------|--------|-------------------|----------|---------------|----------------|-----|----------------------|
| 5.809 | 0.000 | 263982 | 5.686 | -0.001 | 169991 | 36.8 | 36.5 | 0.6 | Tetrachloro-m-xylene |
| 13.892 | 0.001 | 400655 | 14.121 | 0.001 | 316171 | 38.3 | 39.6 | 3.4 | Decachlorobiphenyl |

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 503318 | 508189 | 1.0 |
| Hexabromobiphenyl | 647433 | 979067 | 51.2 |

| Standard Cpnd | Column 2 | | |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 336911 | 344105 | 2.1 |
| Hexabromobiphenyl | 382032 | 503378 | 31.8 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-JAN-2023
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | ZB35 Col | | | | | |
|--------------------------|-------|--------|--------|--------|----------|--------------------------|--------|--------|-------|----------------|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount |
| Aroclor-1016 | 1 | 7.271 | 0.001 | 14777 | 78.3 | 1 | 7.254 | -0.001 | 16100 | 86.3 |
| Aroclor-1016 | 2 | 7.655 | 0.004 | 70114 | 112.1 | 2 | 7.853 | 0.002 | 47184 | 115.4 |
| Aroclor-1016 | 3 | 7.794 | 0.006 | 27212 | 94.5 | 3 | 8.053 | 0.003 | 9427 | 56.5 |
| Aroclor-1016 | 4 | 8.406 | 0.003 | 59884 | 323.4 | 4 | 8.306 | 0.001 | 36680 | 280.3 |
| Total CollAve (4 peaks): | | | | 152.0 | | Total Col2Ave (4 peaks): | | | | 134.6 RPD = 12 |
| Corrected Ave (3 peaks): | | | | 94.9 | | Corrected Ave (3 peaks): | | | | 86.0 RPD = 10 |
| Aroclor-1221 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 |
| Aroclor-1221 | 2 | 6.133 | -0.000 | 591 | 7.7 | 2 | 6.323 | 0.025 | 1820 | 32.9 |
| Aroclor-1221 | 3 | 6.386 | 0.001 | 2453 | 13.8 | 3 | 6.627 | 0.004 | 1477 | 15.8 |
| CollAve: <3 Quant Peaks | | | | | | Col2Ave: <3 Quant Peaks | | | | |
| Aroclor-1232 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 |
| Aroclor-1232 | 2 | 6.133 | -0.000 | 591 | 11.2 | 2 | 7.254 | -0.002 | 16100 | 188.0 |
| Aroclor-1232 | 3 | 7.655 | -0.004 | 70114 | 265.3 | 3 | 7.853 | -0.001 | 47184 | 270.6 |
| Aroclor-1232 | 4 | 8.581 | -0.003 | 76286 | 674.3 | 4 | 8.714 | 0.000 | 39330 | 811.7 |
| Total CollAve (3 peaks): | | | | 316.9 | | Total Col2Ave (3 peaks): | | | | 423.4 RPD = 29 |
| Corrected Ave: < 3 Peaks | | | | | | Corrected Ave: < 3 Peaks | | | | |
| Aroclor-1242 | 1 | 7.271 | 0.000 | 14777 | 95.0 | 1 | 7.254 | -0.002 | 16100 | 107.0 |
| Aroclor-1242 | 2 | 7.655 | -0.001 | 70114 | 137.7 | 2 | 7.853 | 0.000 | 47184 | 141.2 |
| Aroclor-1242 | 3 | 8.406 | -0.000 | 59884 | 395.8 | 3 | 9.159 | -0.001 | 46988 | 448.9 |
| Aroclor-1242 | 4 | 8.581 | -0.000 | 76286 | 333.8 | 4 | 9.584 | -0.003 | 56615 | 408.1 |
| Total CollAve (4 peaks): | | | | 240.5 | | Total Col2Ave (4 peaks): | | | | 276.3 RPD = 14 |
| Corrected Ave (3 peaks): | | | | 188.8 | | Corrected Ave (3 peaks): | | | | 218.7 RPD = 15 |
| Aroclor-1248 | 1 | 8.406 | 0.001 | 59884 | 235.6 | 1 | 8.306 | 0.001 | 36680 | 235.8 |
| Aroclor-1248 | 2 | 8.581 | 0.001 | 76286 | 235.2 | 2 | 8.714 | 0.002 | 39330 | 234.9 |
| Aroclor-1248 | 3 | 9.000 | 0.001 | 148805 | 239.9 | 3 | 9.159 | 0.003 | 46988 | 229.7 |
| Aroclor-1248 | 4 | 9.295 | 0.001 | 73114 | 238.1 | 4 | 9.584 | 0.002 | 56615 | 223.8 |
| Total CollAve (4 peaks): | | | | 237.2 | | Total Col2Ave (4 peaks): | | | | 231.0 RPD = 3 |
| Corrected Ave (3 peaks): | | | | 236.3 | | Corrected Ave (3 peaks): | | | | 229.5 RPD = 3 |
| Aroclor-1254 | 1 | 9.295 | -0.004 | 73114 | 141.2 | 1 | 9.449 | 0.001 | 20314 | 81.4 |
| Aroclor-1254 | 2 | 9.378 | 0.000 | 36561 | 165.3 | 2 | 9.970 | 0.000 | 18678 | 92.6 |
| Aroclor-1254 | 3 | 9.672 | 0.003 | 30736 | 92.6 | 3 | 10.124 | 0.003 | 35321 | 80.2 |
| Aroclor-1254 | 4 | 9.813 | 0.004 | 53537 | 82.3 | 4 | 10.387 | 0.015 | 35188 | 79.9 |
| Aroclor-1254 | 5 | 10.192 | 0.015 | 40119 | 94.9 | 5 | 10.575 | 0.006 | 7386 | 30.1 |
| Total CollAve (5 peaks): | | | | 115.3 | | Total Col2Ave (5 peaks): | | | | 72.9 RPD = 45* |
| Corrected Ave (4 peaks): | | | | 102.7 | | Corrected Ave (4 peaks): | | | | 67.9 RPD = 41* |
| Aroclor-1260 | 1 | 11.054 | 0.010 | 1868 | 3.4 | 1 | 11.664 | 0.011 | 2055 | 5.7 |
| Aroclor-1260 | 2 | 11.366 | 0.005 | 1375 | 2.4 | 2 | 11.926 | 0.009 | 1303 | 1.4 |
| Aroclor-1260 | 3 | 11.745 | 0.010 | 2137 | 1.4 | 3 | 12.439 | 0.003 | 395 | 1.7 |
| Aroclor-1260 | 4 | 12.147 | 0.008 | 1650 | 2.1 | 4 | 12.507 | 0.005 | 890 | 1.5 |
| Aroclor-1260 | 5 | 12.255 | 0.011 | 558 | 1.7 | NS | --- | | | ---- |
| Total CollAve (5 peaks): | | | | 2.2 | | Total Col2Ave (4 peaks): | | | | 2.6 RPD = 15 |
| Corrected Ave (4 peaks): | | | | 1.9 | | Corrected Ave (3 peaks): | | | | 1.5 RPD = 22 |
| Aroclor-1262 | 1 | 10.837 | 0.005 | 12736 | 32.2 | 1 | 11.122 | -0.078 | 7136 | 14.5 |
| Aroclor-1262 | 2 | 12.255 | 0.010 | 558 | 0.9 | 2 | 11.664 | 0.011 | 2055 | 4.9 |
| Aroclor-1262 | 3 | 12.327 | 0.006 | 596 | 0.9 | 3 | 12.439 | 0.004 | 395 | 0.9 |
| Aroclor-1262 | 4 | 12.996 | 0.007 | 1113 | 1.8 | 4 | 12.507 | 0.003 | 890 | 1.2 |
| Total CollAve (4 peaks): | | | | 8.9 | | Total Col2Ave (4 peaks): | | | | 5.4 RPD = 50* |
| Corrected Ave (3 peaks): | | | | 1.2 | | Corrected Ave (3 peaks): | | | | 2.3 RPD = 65* |
| Aroclor-1268 | 1 | 12.255 | 0.010 | 558 | 0.3 | 1 | 12.439 | 0.005 | 395 | 0.3 |
| Aroclor-1268 | 2 | 12.327 | 0.009 | 596 | 0.4 | 2 | 12.507 | 0.005 | 890 | 0.7 |
| Aroclor-1268 | 3 | 12.706 | 0.007 | 1161 | 0.9 | 3 | 12.896 | 0.003 | 166 | 0.2 |
| Aroclor-1268 | 4 | 13.504 | 0.016 | 3330 | 0.8 | 4 | 13.717 | 0.009 | 469 | 0.1 |
| Total CollAve (4 peaks): | | | | 0.6 | | Total Col2Ave (4 peaks): | | | | 0.3 RPD = 57* |
| Corrected Ave (3 peaks): | | | | 0.5 | | Corrected Ave (3 peaks): | | | | 0.2 RPD = 83* |

Total PCB Area Col1 (5.909 - 13.792) = 1230760 Col1 Total PCB = 0.2 ppm*

Total PCB Area Col2 (5.787 - 14.020) = 742749 Col2 Total PCB = 0.2 ppm*

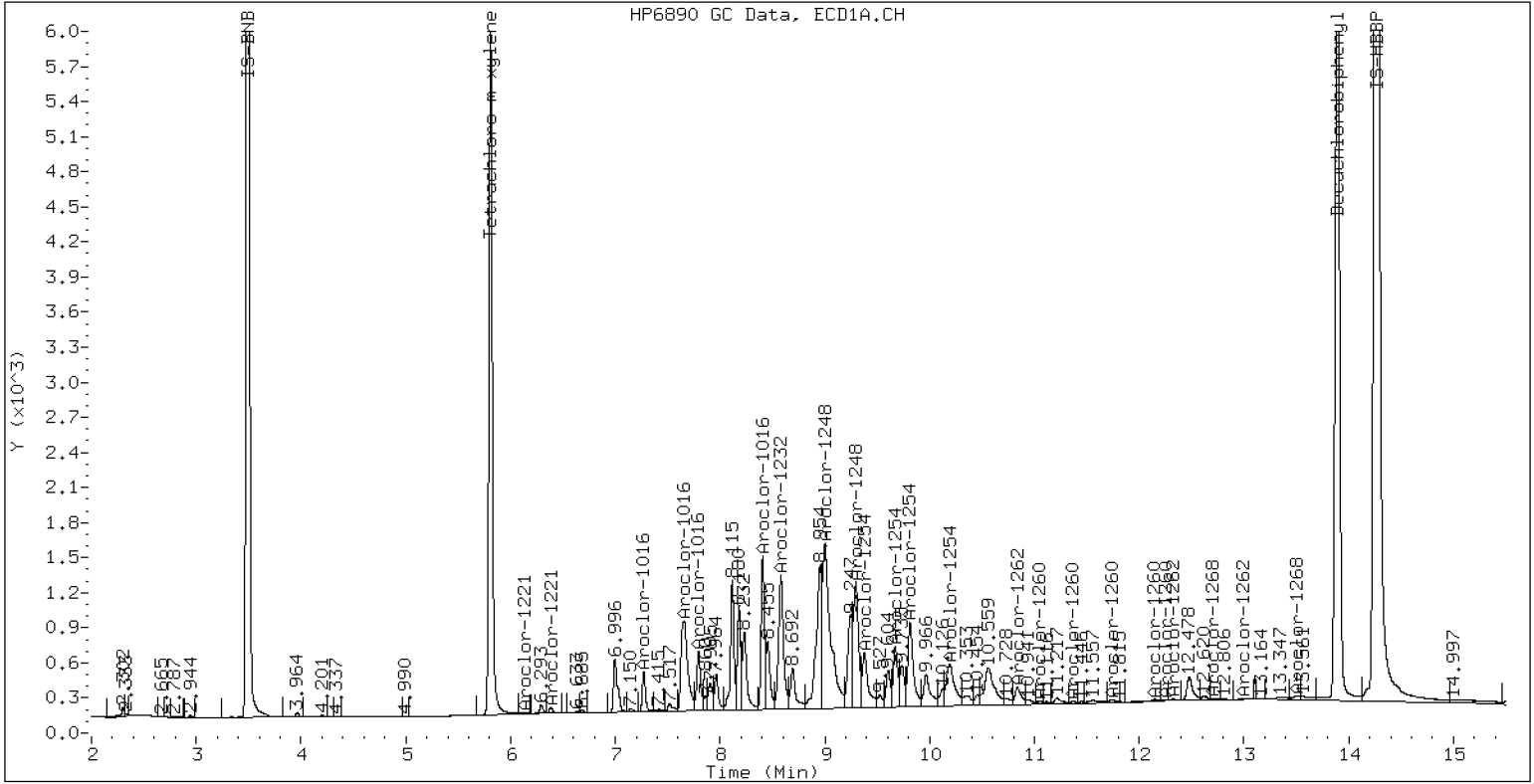
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 AR1248 SCV

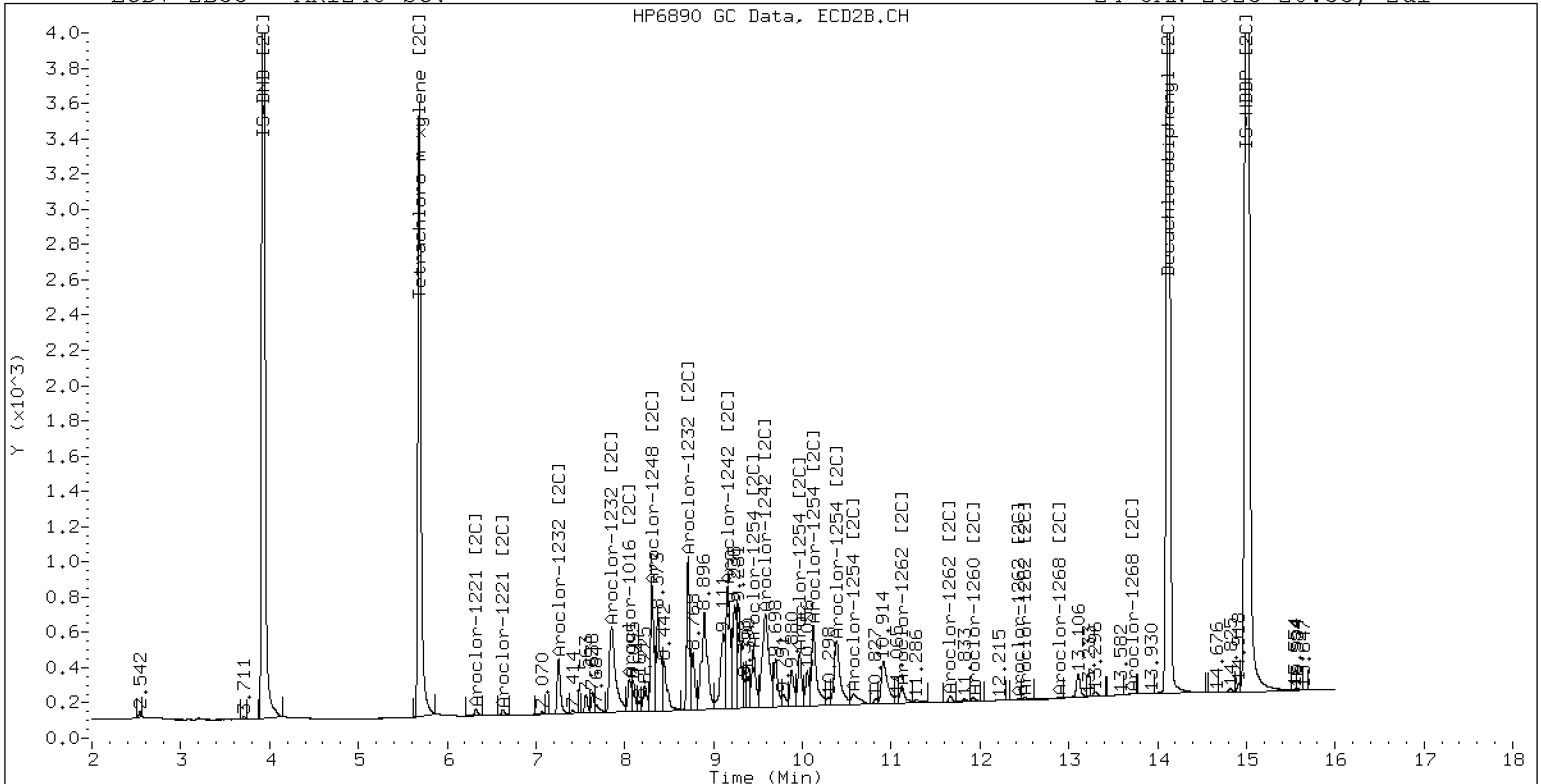
24-JAN-2023 20:33, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1248 SCV

24-JAN-2023 20:33, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230124.b/01242327ECD7.D
Data file 2: /230124.b/230124.b/01242327ECD7.D
Method: \\target\share\chem4\ecd7.i\230124.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1254 SCV
Client ID:
Injection Date: 24-JAN-2023 20:54
Report Date: 01/25/2023 10:53
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

| ZB5 Col | | ZB35 Col | | | ZB5 | ZB35 | RPD | Compound/Flag | |
|---------|--------|----------|--------|--------|----------|--------|------|---------------|----------------------|
| RT | Shift | Response | RT | Shift | Response | on col | | | on col |
| 5.809 | -0.000 | 261398 | 5.686 | -0.001 | 169839 | 36.7 | 36.6 | 0.1 | Tetrachloro-m-xylene |
| 13.892 | 0.001 | 383983 | 14.121 | 0.001 | 323233 | 37.1 | 39.5 | 6.4 | Decachlorobiphenyl |

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1 | | | |
|--------------------|----------------|-------------|------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 503318 | 504424 | 0.2 |
| Hexabromobiphenyl | 647433 | 968338 | 49.6 |

| Column 2 | | | |
|--------------------|----------------|-------------|------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 336911 | 342969 | 1.8 |
| Hexabromobiphenyl | 382032 | 515045 | 34.8 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-JAN-2023
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | | ZB35 Col | | | | | |
|--------------------------|-------|--------|--------|--------|---|----------|--------|--------|-------|------------|--|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount | |
| Aroclor-1016 | 1 | 7.273 | 0.003 | 320 | 1.7 | 1 | 7.258 | 0.003 | 332 | 1.8 | |
| Aroclor-1016 | 2 | 7.658 | 0.008 | 991 | 1.6 | 2 | --- | | | 0.0 | |
| Aroclor-1016 | 3 | 7.795 | 0.007 | 662 | 2.3 | 3 | 8.097 | 0.047 | 515 | 3.1 | |
| Aroclor-1016 | 4 | 8.408 | 0.005 | 21378 | 116.3 | 4 | 8.307 | 0.002 | 20446 | 156.8 | |
| Total CollAve (4 peaks): | | | | 30.5 | Total Col2Ave (3 peaks): | | | | 53.9 | RPD = 55* | |
| Corrected Ave (3 peaks): | | | | 1.9 | Corrected Ave: < 3 Peaks | | | | | | |
| Aroclor-1221 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 | |
| Aroclor-1221 | 2 | --- | | | 0.0 | 2 | 6.325 | 0.026 | 1749 | 31.7 | |
| Aroclor-1221 | 3 | --- | | | 0.0 | 3 | 6.633 | 0.011 | 321 | 3.5 | |
| CollAve: <3 Quant Peaks | | | | | Col2Ave: <3 Quant Peaks | | | | | | |
| Aroclor-1232 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 | |
| Aroclor-1232 | 2 | --- | | | 0.0 | 2 | 7.258 | 0.001 | 332 | 3.9 | |
| Aroclor-1232 | 3 | 7.658 | -0.000 | 991 | 3.8 | 3 | --- | | | 0.0 | |
| Aroclor-1232 | 4 | 8.587 | 0.003 | 8887 | 79.1 | 4 | 8.715 | 0.001 | 14030 | 290.5 | |
| CollAve: <3 Quant Peaks | | | | | Col2Ave: <3 Quant Peaks | | | | | | |
| Aroclor-1242 | 1 | 7.273 | 0.002 | 320 | 2.1 | 1 | 7.258 | 0.002 | 332 | 2.2 | |
| Aroclor-1242 | 2 | 7.658 | 0.003 | 991 | 2.0 | 2 | --- | | | 0.0 | |
| Aroclor-1242 | 3 | 8.408 | 0.002 | 21378 | 142.3 | 3 | 9.164 | 0.004 | 26593 | 254.9 | |
| Aroclor-1242 | 4 | 8.587 | 0.006 | 8887 | 39.2 | 4 | 9.543 | -0.043 | 34385 | 248.7 | |
| Total CollAve (4 peaks): | | | | 46.4 | Total Col2Ave (3 peaks): | | | | 168.6 | RPD = 114* | |
| Corrected Ave (3 peaks): | | | | 14.4 | Corrected Ave: < 3 Peaks | | | | | | |
| Aroclor-1248 | 1 | 8.408 | 0.003 | 21378 | 84.7 | 1 | 8.307 | 0.001 | 20446 | 131.9 | |
| Aroclor-1248 | 2 | 8.587 | 0.007 | 8887 | 27.6 | 2 | 8.715 | 0.003 | 14030 | 84.1 | |
| Aroclor-1248 | 3 | 8.995 | -0.004 | 110289 | 179.1 | 3 | 9.164 | 0.007 | 26593 | 130.4 | |
| Aroclor-1248 | 4 | 9.300 | 0.007 | 113143 | 371.2 | 4 | 9.543 | -0.038 | 34385 | 136.4 | |
| Total CollAve (4 peaks): | | | | 165.7 | Total Col2Ave (4 peaks): | | | | 120.7 | RPD = 31 | |
| Corrected Ave (3 peaks): | | | | 97.2 | Corrected Ave (3 peaks): 115.5 RPD = 17 | | | | | | |
| Aroclor-1254 | 1 | 9.300 | 0.002 | 113143 | 220.1 | 1 | 9.449 | 0.001 | 56453 | 226.9 | |
| Aroclor-1254 | 2 | 9.379 | 0.001 | 49468 | 225.4 | 2 | 9.970 | 0.001 | 45325 | 225.4 | |
| Aroclor-1254 | 3 | 9.671 | 0.002 | 72811 | 221.0 | 3 | 10.122 | 0.002 | 97044 | 221.2 | |
| Aroclor-1254 | 4 | 9.811 | 0.002 | 140530 | 217.7 | 4 | 10.374 | 0.002 | 98778 | 225.2 | |
| Aroclor-1254 | 5 | 10.182 | 0.005 | 92254 | 219.8 | 5 | 10.570 | 0.001 | 57171 | 234.0 | |
| Total CollAve (5 peaks): | | | | 220.8 | Total Col2Ave (5 peaks): | | | | 226.5 | RPD = 3 | |
| Corrected Ave (4 peaks): | | | | 219.7 | Corrected Ave (4 peaks): 224.7 RPD = 2 | | | | | | |
| Aroclor-1260 | 1 | 11.045 | 0.002 | 8960 | 16.5 | 1 | 11.661 | 0.008 | 26985 | 72.6 | |
| Aroclor-1260 | 2 | 11.364 | 0.004 | 9237 | 16.5 | 2 | 11.923 | 0.006 | 19882 | 21.2 | |
| Aroclor-1260 | 3 | 11.741 | 0.007 | 21268 | 14.5 | 3 | 12.505 | 0.069 | 13190 | 56.3 | |
| Aroclor-1260 | 4 | 12.146 | 0.007 | 19041 | 25.1 | 4 | --- | | | 0.0 | |
| Aroclor-1260 | 5 | 12.321 | 0.077 | 1835 | 5.5 | NS | --- | | | --- | |
| Total CollAve (5 peaks): | | | | 15.6 | Total Col2Ave (3 peaks): | | | | 50.0 | RPD = 105* | |
| Corrected Ave (4 peaks): | | | | 13.3 | Corrected Ave: < 3 Peaks | | | | | | |
| Aroclor-1262 | 1 | 10.832 | 0.000 | 157590 | 402.4 | 1 | 11.119 | -0.081 | 92414 | 183.3 | |
| Aroclor-1262 | 2 | 12.321 | 0.075 | 1835 | 3.0 | 2 | 11.661 | 0.008 | 26985 | 63.0 | |
| Aroclor-1262 | 3 | --- | | | 0.0 | 3 | 12.505 | 0.071 | 13190 | 28.9 | |
| Aroclor-1262 | 4 | 12.995 | 0.006 | 843 | 1.4 | 4 | --- | | | 0.0 | |
| Total CollAve (3 peaks): | | | | 135.6 | Total Col2Ave (3 peaks): | | | | 91.7 | RPD = 39 | |
| Corrected Ave: < 3 Peaks | | | | | Corrected Ave: < 3 Peaks | | | | | | |
| Aroclor-1268 | 1 | 12.321 | 0.076 | 1835 | 1.1 | 1 | 12.505 | 0.072 | 13190 | 11.0 | |
| Aroclor-1268 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 | |
| Aroclor-1268 | 3 | 12.720 | 0.021 | 1314 | 1.0 | 3 | 12.891 | -0.002 | 169 | 0.2 | |
| Aroclor-1268 | 4 | 13.504 | 0.016 | 1169 | 0.3 | 4 | 13.706 | -0.002 | 1132 | 0.3 | |
| Total CollAve (3 peaks): | | | | 0.8 | Total Col2Ave (3 peaks): | | | | 3.8 | RPD = 130* | |
| Corrected Ave: < 3 Peaks | | | | | Corrected Ave: < 3 Peaks | | | | | | |

Total PCB Area Col1 (5.909 - 13.792) = 1507519 Col1 Total PCB = 0.3 ppm*

Total PCB Area Col2 (5.787 - 14.020) = 951047 Col2 Total PCB = 0.3 ppm*

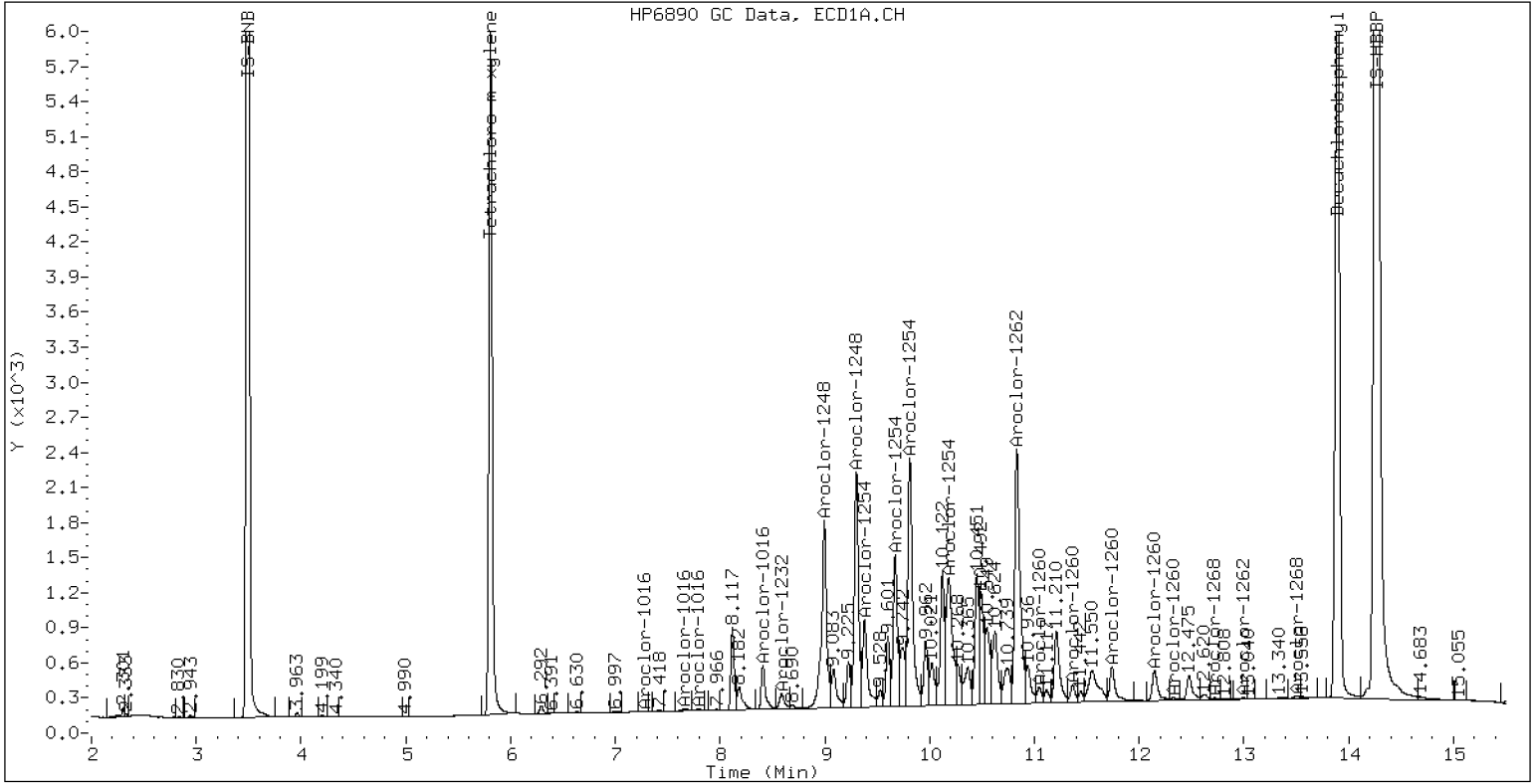
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 AR1254 SCV

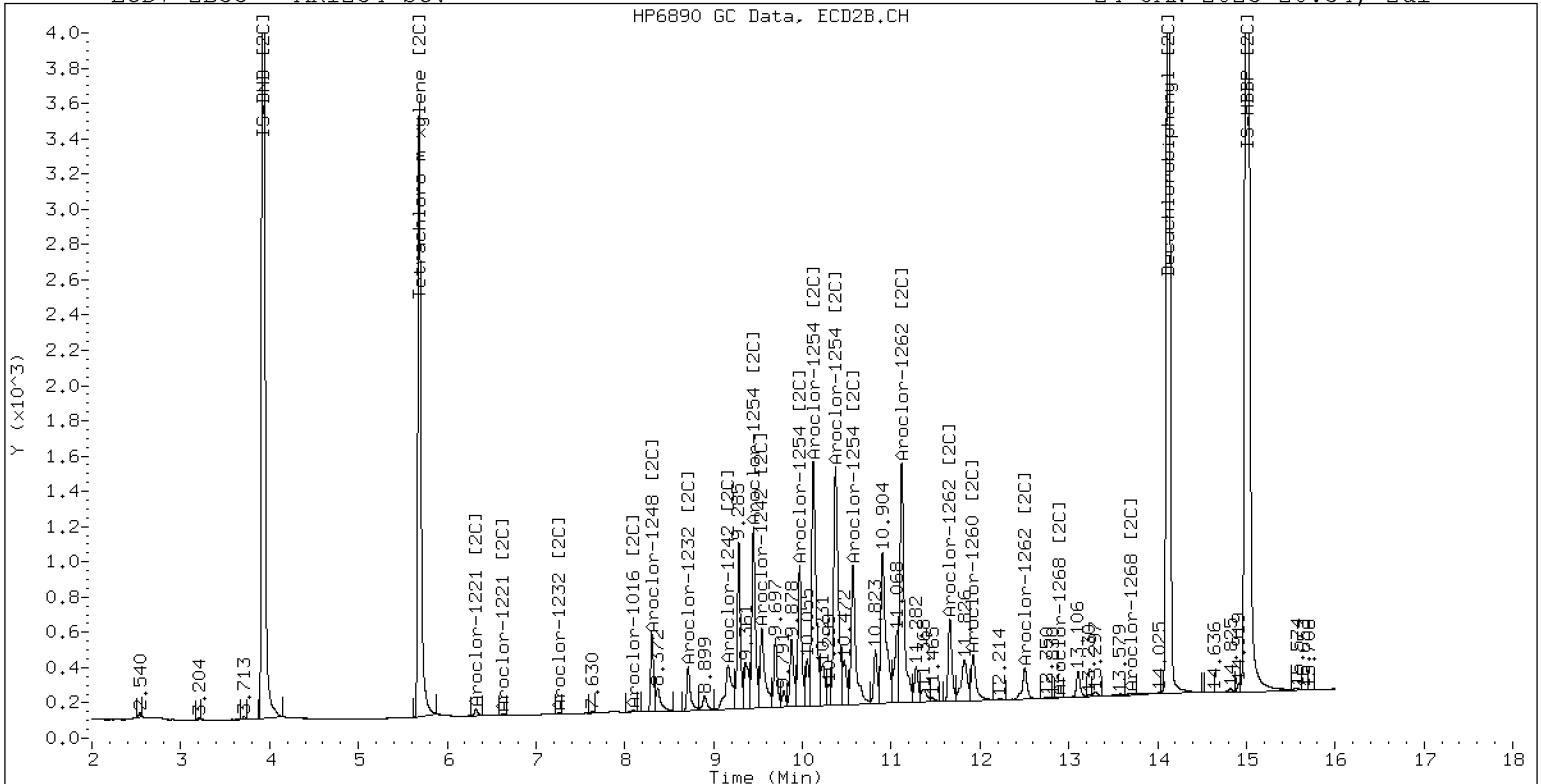
24-JAN-2023 20:54, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1254 SCV

24-JAN-2023 20:54, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230124.b/01242328ECD7.D
Data file 2: /230124.b/230124.b/01242328ECD7.D
Method: \\target\share\chem4\ecd7.i\230124.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR2162 SCV
Client ID:
Injection Date: 24-JAN-2023 21:15
Report Date: 01/25/2023 10:53
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

| ZB5 Col | | ZB35 Col | | | ZB5 | ZB35 | RPD | Compound/Flag | |
|---------|--------|----------|--------|--------|----------|--------|------|---------------|----------------------|
| RT | Shift | Response | RT | Shift | Response | on col | | | on col |
| 5.809 | -0.000 | 265357 | 5.685 | -0.001 | 170984 | 37.3 | 37.2 | 0.3 | Tetrachloro-m-xylene |
| 13.891 | -0.001 | 397332 | 14.119 | -0.001 | 326981 | 37.5 | 39.5 | 5.3 | Decachlorobiphenyl |

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 503318 | 503473 | 0.0 |
| Hexabromobiphenyl | 647433 | 991997 | 53.2 |

| Standard Cpnd | Column 2 | | |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 336911 | 340361 | 1.0 |
| Hexabromobiphenyl | 382032 | 521975 | 36.6 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-JAN-2023
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | | ZB35 Col | | | | | |
|--------------------------|-------|--------|--------|--------|--------------------------|----------|--------|--------|--------|------------|--|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount | |
| Aroclor-1016 | 1 | 7.272 | 0.002 | 5326 | 28.5 | 1 | 7.257 | 0.002 | 6708 | 36.3 | |
| Aroclor-1016 | 2 | 7.664 | 0.013 | 11965 | 19.3 | 2 | 7.856 | 0.005 | 7233 | 17.9 | |
| Aroclor-1016 | 3 | 7.797 | 0.009 | 6015 | 21.1 | 3 | 8.058 | 0.008 | 2997 | 18.2 | |
| Aroclor-1016 | 4 | 8.410 | 0.006 | 3771 | 20.6 | 4 | 8.308 | 0.002 | 2065 | 16.0 | |
| Total CollAve (4 peaks): | | | | 22.4 | Total Col2Ave (4 peaks): | | | | 22.1 | RPD = 1 | |
| Corrected Ave (3 peaks): | | | | 20.3 | Corrected Ave (3 peaks): | | | | 17.3 | RPD = 16 | |
| | | | | | | | | | | | |
| Aroclor-1221 | 1 | 4.732 | -0.000 | 9097 | 244.5 | 1 | 4.959 | -0.000 | 6157 | 246.8 | |
| Aroclor-1221 | 2 | 6.133 | -0.000 | 16114 | 211.8 | 2 | 6.297 | -0.001 | 12807 | 234.2 | |
| Aroclor-1221 | 3 | 6.384 | 0.000 | 40299 | 228.1 | 3 | 6.622 | -0.000 | 21707 | 235.2 | |
| Total CollAve (3 peaks): | | | | 228.1 | Total Col2Ave (3 peaks): | | | | 238.7 | RPD = 5 | |
| Corrected Ave: < 3 Peaks | | | | | Corrected Ave: < 3 Peaks | | | | | | |
| | | | | | | | | | | | |
| Aroclor-1232 | 1 | 4.732 | -0.001 | 9097 | 391.6 | 1 | 4.959 | -0.001 | 6157 | 406.9 | |
| Aroclor-1232 | 2 | 6.133 | 0.000 | 16114 | 307.8 | 2 | 7.257 | 0.000 | 6708 | 79.2 | |
| Aroclor-1232 | 3 | 7.664 | 0.005 | 11965 | 45.7 | 3 | 7.856 | 0.001 | 7233 | 41.9 | |
| Aroclor-1232 | 4 | 8.589 | 0.004 | 2837 | 25.3 | 4 | 8.716 | 0.002 | 1869 | 39.0 | |
| Total CollAve (4 peaks): | | | | 192.6 | Total Col2Ave (4 peaks): | | | | 141.7 | RPD = 30 | |
| Corrected Ave (3 peaks): | | | | 126.3 | Corrected Ave (3 peaks): | | | | 53.4 | RPD = 81* | |
| | | | | | | | | | | | |
| Aroclor-1242 | 1 | 7.272 | 0.001 | 5326 | 34.5 | 1 | 7.257 | 0.001 | 6708 | 45.1 | |
| Aroclor-1242 | 2 | 7.664 | 0.008 | 11965 | 23.7 | 2 | 7.856 | 0.003 | 7233 | 21.9 | |
| Aroclor-1242 | 3 | 8.410 | 0.004 | 3771 | 25.2 | 3 | 9.169 | 0.009 | 1956 | 18.9 | |
| Aroclor-1242 | 4 | 8.589 | 0.007 | 2837 | 12.5 | 4 | 9.544 | -0.043 | 5978 | 43.6 | |
| Total CollAve (4 peaks): | | | | 24.0 | Total Col2Ave (4 peaks): | | | | 32.3 | RPD = 30 | |
| Corrected Ave (3 peaks): | | | | 20.5 | Corrected Ave (3 peaks): | | | | 28.1 | RPD = 31 | |
| | | | | | | | | | | | |
| Aroclor-1248 | 1 | 8.410 | 0.005 | 3771 | 15.0 | 1 | 8.308 | 0.002 | 2065 | 13.4 | |
| Aroclor-1248 | 2 | 8.589 | 0.008 | 2837 | 8.8 | 2 | 8.716 | 0.004 | 1869 | 11.3 | |
| Aroclor-1248 | 3 | 8.997 | -0.002 | 36022 | 58.6 | 3 | 9.169 | 0.012 | 1956 | 9.7 | |
| Aroclor-1248 | 4 | 9.305 | 0.011 | 30853 | 101.4 | 4 | 9.544 | -0.038 | 5978 | 23.9 | |
| Total CollAve (4 peaks): | | | | 46.0 | Total Col2Ave (4 peaks): | | | | 14.6 | RPD = 104* | |
| Corrected Ave (3 peaks): | | | | 27.5 | Corrected Ave (3 peaks): | | | | 11.5 | RPD = 82* | |
| | | | | | | | | | | | |
| Aroclor-1254 | 1 | 9.305 | 0.006 | 30853 | 60.1 | 1 | 9.451 | 0.003 | 17617 | 71.3 | |
| Aroclor-1254 | 2 | 9.376 | -0.002 | 5370 | 24.5 | 2 | 9.970 | 0.001 | 2849 | 14.3 | |
| Aroclor-1254 | 3 | 9.673 | 0.003 | 5543 | 16.9 | 3 | 10.146 | 0.026 | 88151 | 202.5 | |
| Aroclor-1254 | 4 | 9.810 | 0.002 | 14544 | 22.6 | 4 | 10.370 | -0.002 | 107074 | 245.9 | |
| Aroclor-1254 | 5 | 10.121 | -0.056 | 180016 | 429.7 | 5 | 10.567 | -0.002 | 141725 | 584.5 | |
| Total CollAve (5 peaks): | | | | 110.8 | Total Col2Ave (5 peaks): | | | | 223.7 | RPD = 68* | |
| Corrected Ave (4 peaks): | | | | 31.0 | Corrected Ave (4 peaks): | | | | 133.5 | RPD = 125* | |
| | | | | | | | | | | | |
| Aroclor-1260 | 1 | 11.044 | 0.001 | 310806 | 558.4 | 1 | 11.652 | -0.001 | 187682 | 498.4 | |
| Aroclor-1260 | 2 | 11.361 | 0.000 | 263161 | 460.0 | 2 | 11.917 | -0.000 | 450612 | 473.0 | |
| Aroclor-1260 | 3 | 11.735 | 0.000 | 629605 | 418.0 | 3 | 12.433 | -0.003 | 206042 | 867.7 | |
| Aroclor-1260 | 4 | 12.141 | 0.001 | 210012 | 269.9 | 4 | 12.502 | -0.000 | 326457 | 529.5 | |
| Aroclor-1260 | 5 | 12.244 | -0.000 | 268425 | 791.3 | NS | --- | | | ---- | |
| Total CollAve (5 peaks): | | | | 499.5 | Total Col2Ave (4 peaks): | | | | 592.1 | RPD = 17 | |
| Corrected Ave (4 peaks): | | | | 426.6 | Corrected Ave (3 peaks): | | | | 500.3 | RPD = 16 | |
| | | | | | | | | | | | |
| Aroclor-1262 | 1 | 10.828 | -0.005 | 171094 | 426.5 | 1 | 11.200 | 0.000 | 219731 | 430.1 | |
| Aroclor-1262 | 2 | 12.244 | -0.002 | 268425 | 423.9 | 2 | 11.652 | -0.001 | 187682 | 432.0 | |
| Aroclor-1262 | 3 | 12.319 | -0.002 | 291581 | 424.2 | 3 | 12.433 | -0.001 | 206042 | 445.4 | |
| Aroclor-1262 | 4 | 12.988 | -0.001 | 257735 | 411.5 | 4 | 12.502 | -0.002 | 326457 | 440.6 | |
| Total CollAve (4 peaks): | | | | 421.5 | Total Col2Ave (4 peaks): | | | | 437.0 | RPD = 4 | |
| Corrected Ave (3 peaks): | | | | 419.8 | Corrected Ave (3 peaks): | | | | 434.3 | RPD = 3 | |
| | | | | | | | | | | | |
| Aroclor-1268 | 1 | 12.244 | -0.001 | 268425 | 163.8 | 1 | 12.433 | -0.000 | 206042 | 169.0 | |
| Aroclor-1268 | 2 | 12.319 | 0.001 | 291581 | 178.4 | 2 | 12.502 | 0.000 | 326457 | 251.7 | |
| Aroclor-1268 | 3 | 12.725 | 0.026 | 108693 | 80.3 | 3 | 12.892 | -0.001 | 10062 | 9.3 | |
| Aroclor-1268 | 4 | 13.486 | -0.003 | 95646 | 23.8 | 4 | 13.710 | 0.001 | 59437 | 17.8 | |
| Total CollAve (4 peaks): | | | | 111.6 | Total Col2Ave (4 peaks): | | | | 112.0 | RPD = 0 | |

Corrected Ave (3 peaks): 89.3 Corrected Ave (3 peaks): 65.4 RPD = 31

Total PCB Area Col1 (5.909 - 13.792) = 4409992 Col1 Total PCB = 0.8 ppm*

Total PCB Area Col2 (5.787 - 14.020) = 2874073 Col2 Total PCB = 0.8 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230124.b/01242329ECD7.D
Data file 2: /230124.b/230124.b/01242329ECD7.D
Method: \\target\share\chem4\ecd7.i\230124.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR3268 SCV
Client ID:
Injection Date: 24-JAN-2023 21:36
Report Date: 01/25/2023 10:53
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

| RT | ZB5 Col Shift | Response | RT | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag |
|--------|------------------|----------|--------|-------------------|----------|---------------|----------------|-----|----------------------|
| 5.810 | 0.001 | 250455 | 5.687 | 0.000 | 162795 | 36.4 | 36.3 | 0.2 | Tetrachloro-m-xylene |
| 13.892 | 0.000 | 551946 | 14.120 | 0.000 | 461901 | 54.6 | 57.9 | 5.9 | Decachlorobiphenyl |

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 503318 | 487061 | -3.2 |
| Hexabromobiphenyl | 647433 | 944934 | 46.0 |

| Standard Cpnd | Column 2 | | |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 336911 | 331721 | -1.5 |
| Hexabromobiphenyl | 382032 | 502401 | 31.5 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-JAN-2023
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | ZB35 Col | | | | | |
|--------------------------|-------|--------|--------|--------|----------|--------------------------|--------|--------|--------|------------------|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount |
| Aroclor-1016 | 1 | 7.272 | 0.002 | 19363 | 107.0 | 1 | 7.256 | 0.001 | 19791 | 110.0 |
| Aroclor-1016 | 2 | 7.659 | 0.009 | 58630 | 97.8 | 2 | 7.856 | 0.005 | 40139 | 101.8 |
| Aroclor-1016 | 3 | 7.794 | 0.006 | 28286 | 102.5 | 3 | 8.055 | 0.005 | 17412 | 108.2 |
| Aroclor-1016 | 4 | 8.408 | 0.004 | 17373 | 97.9 | 4 | 8.308 | 0.003 | 11962 | 94.8 |
| Total CollAve (4 peaks): | | | | 101.3 | | Total Col2Ave (4 peaks): | | | | 103.7 RPD = 2 |
| Corrected Ave (3 peaks): | | | | 99.4 | | Corrected Ave (3 peaks): | | | | 101.6 RPD = 2 |
| | | | | | | | | | | |
| Aroclor-1221 | 1 | 4.735 | 0.002 | 5022 | 139.5 | 1 | 4.961 | 0.002 | 3409 | 140.2 |
| Aroclor-1221 | 2 | 6.134 | 0.001 | 8987 | 122.1 | 2 | 6.299 | 0.001 | 7677 | 144.1 |
| Aroclor-1221 | 3 | 6.385 | 0.001 | 29368 | 171.8 | 3 | 6.624 | 0.001 | 16198 | 180.1 |
| Total CollAve (3 peaks): | | | | 144.5 | | Total Col2Ave (3 peaks): | | | | 154.8 RPD = 7 |
| Corrected Ave: < 3 Peaks | | | | | | Corrected Ave: < 3 Peaks | | | | |
| | | | | | | | | | | |
| Aroclor-1232 | 1 | 4.735 | 0.002 | 5022 | 223.5 | 1 | 4.961 | 0.002 | 3409 | 231.1 |
| Aroclor-1232 | 2 | 6.134 | 0.001 | 8987 | 177.4 | 2 | 7.256 | -0.001 | 19791 | 239.8 |
| Aroclor-1232 | 3 | 7.659 | 0.001 | 58630 | 231.5 | 3 | 7.856 | 0.001 | 40139 | 238.8 |
| Aroclor-1232 | 4 | 8.585 | 0.000 | 24991 | 230.5 | 4 | 8.715 | 0.001 | 11476 | 245.7 |
| Total CollAve (4 peaks): | | | | 215.7 | | Total Col2Ave (4 peaks): | | | | 238.8 RPD = 10 |
| Corrected Ave (3 peaks): | | | | 210.5 | | Corrected Ave (3 peaks): | | | | 236.6 RPD = 12 |
| | | | | | | | | | | |
| Aroclor-1242 | 1 | 7.272 | 0.001 | 19363 | 129.8 | 1 | 7.256 | 0.000 | 19791 | 136.4 |
| Aroclor-1242 | 2 | 7.659 | 0.004 | 58630 | 120.1 | 2 | 7.856 | 0.002 | 40139 | 124.6 |
| Aroclor-1242 | 3 | 8.408 | 0.001 | 17373 | 119.8 | 3 | 9.166 | 0.006 | 11813 | 117.1 |
| Aroclor-1242 | 4 | 8.585 | 0.003 | 24991 | 114.1 | 4 | 9.595 | 0.009 | 16549 | 123.7 |
| Total CollAve (4 peaks): | | | | 121.0 | | Total Col2Ave (4 peaks): | | | | 125.4 RPD = 4 |
| Corrected Ave (3 peaks): | | | | 118.0 | | Corrected Ave (3 peaks): | | | | 121.8 RPD = 3 |
| | | | | | | | | | | |
| Aroclor-1248 | 1 | 8.408 | 0.002 | 17373 | 71.3 | 1 | 8.308 | 0.003 | 11962 | 79.8 |
| Aroclor-1248 | 2 | 8.585 | 0.005 | 24991 | 80.4 | 2 | 8.715 | 0.003 | 11476 | 71.1 |
| Aroclor-1248 | 3 | 9.001 | 0.002 | 67631 | 113.8 | 3 | 9.166 | 0.009 | 11813 | 59.9 |
| Aroclor-1248 | 4 | 9.293 | -0.001 | 30983 | 105.3 | 4 | 9.595 | 0.014 | 16549 | 67.9 |
| Total CollAve (4 peaks): | | | | 92.7 | | Total Col2Ave (4 peaks): | | | | 69.7 RPD = 28 |
| Corrected Ave (3 peaks): | | | | 85.7 | | Corrected Ave (3 peaks): | | | | 66.3 RPD = 26 |
| | | | | | | | | | | |
| Aroclor-1254 | 1 | 9.293 | -0.006 | 30983 | 62.4 | 1 | 9.451 | 0.003 | 3749 | 15.6 |
| Aroclor-1254 | 2 | 9.381 | 0.003 | 9071 | 42.8 | 2 | 9.974 | 0.005 | 2452 | 12.6 |
| Aroclor-1254 | 3 | 9.678 | 0.009 | 5199 | 16.3 | 3 | 10.131 | 0.010 | 4718 | 11.1 |
| Aroclor-1254 | 4 | 9.820 | 0.012 | 8864 | 14.2 | 4 | 10.389 | 0.018 | 4224 | 10.0 |
| Aroclor-1254 | 5 | 10.195 | 0.018 | 8085 | 19.9 | 5 | 10.573 | 0.004 | 1573 | 6.7 |
| Total CollAve (5 peaks): | | | | 31.1 | | Total Col2Ave (5 peaks): | | | | 11.2 RPD = 94* |
| Corrected Ave (4 peaks): | | | | 23.3 | | Corrected Ave (4 peaks): | | | | 10.1 RPD = 79* |
| | | | | | | | | | | |
| Aroclor-1260 | 1 | 11.050 | 0.006 | 66852 | 126.1 | 1 | 11.647 | -0.006 | 57235 | 157.9 |
| Aroclor-1260 | 2 | 11.366 | 0.006 | 6269 | 11.5 | 2 | 11.919 | 0.002 | 25368 | 27.7 |
| Aroclor-1260 | 3 | 11.741 | 0.007 | 41446 | 28.9 | 3 | 12.434 | -0.002 | 262014 | 1146.4 |
| Aroclor-1260 | 4 | 12.052 | -0.088 | 2691 | 3.6 | 4 | 12.502 | -0.000 | 277060 | 466.9 |
| Aroclor-1260 | 5 | 12.245 | 0.002 | 349286 | 1080.9 | NS | --- | | | ---- |
| Total CollAve (5 peaks): | | | | 250.2 | | Total Col2Ave (4 peaks): | | | | 449.7 RPD = 57* |
| Corrected Ave (4 peaks): | | | | 42.5 | | Corrected Ave (3 peaks): | | | | 217.5 RPD = 135* |
| | | | | | | | | | | |
| Aroclor-1262 | 1 | 10.838 | 0.006 | 4520 | 11.8 | 1 | 11.203 | 0.003 | 40576 | 82.5 |
| Aroclor-1262 | 2 | 12.245 | -0.000 | 349286 | 579.1 | 2 | 11.647 | -0.006 | 57235 | 136.9 |
| Aroclor-1262 | 3 | 12.318 | -0.002 | 349715 | 534.1 | 3 | 12.434 | -0.001 | 262014 | 588.4 |
| Aroclor-1262 | 4 | 12.988 | -0.001 | 141905 | 237.8 | 4 | 12.502 | -0.002 | 277060 | 388.5 |
| Total CollAve (4 peaks): | | | | 340.7 | | Total Col2Ave (4 peaks): | | | | 299.1 RPD = 13 |
| Corrected Ave (3 peaks): | | | | 261.2 | | Corrected Ave (3 peaks): | | | | 202.6 RPD = 25 |
| | | | | | | | | | | |
| Aroclor-1268 | 1 | 12.245 | 0.001 | 349286 | 223.8 | 1 | 12.434 | 0.000 | 262014 | 223.3 |
| Aroclor-1268 | 2 | 12.318 | 0.000 | 349715 | 224.6 | 2 | 12.502 | 0.000 | 277060 | 221.9 |
| Aroclor-1268 | 3 | 12.699 | 0.000 | 289328 | 224.3 | 3 | 12.893 | -0.000 | 208928 | 201.0 |
| Aroclor-1268 | 4 | 13.490 | 0.001 | 849299 | 222.1 | 4 | 13.710 | 0.002 | 725831 | 226.1 |
| Total CollAve (4 peaks): | | | | 223.7 | | Total Col2Ave (4 peaks): | | | | 218.1 RPD = 3 |

Corrected Ave (3 peaks): 223.4 Corrected Ave (3 peaks): 215.4 RPD = 4

Total PCB Area Col1 (5.909 - 13.792) = 2866092 Col1 Total PCB = 0.5 ppm*
Total PCB Area Col2 (5.787 - 14.020) = 2084481 Col2 Total PCB = 0.6 ppm*

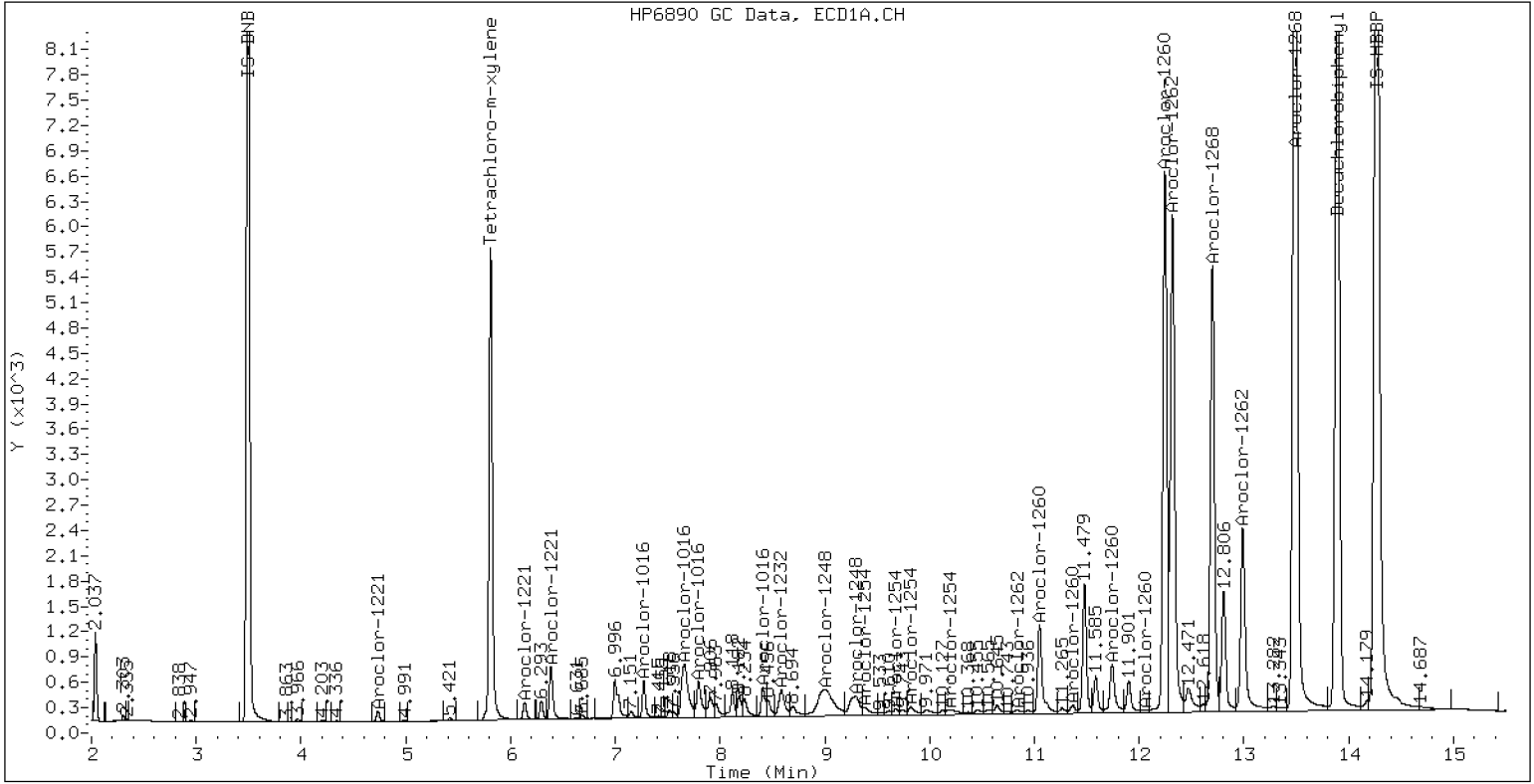
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 AR3268 SCV

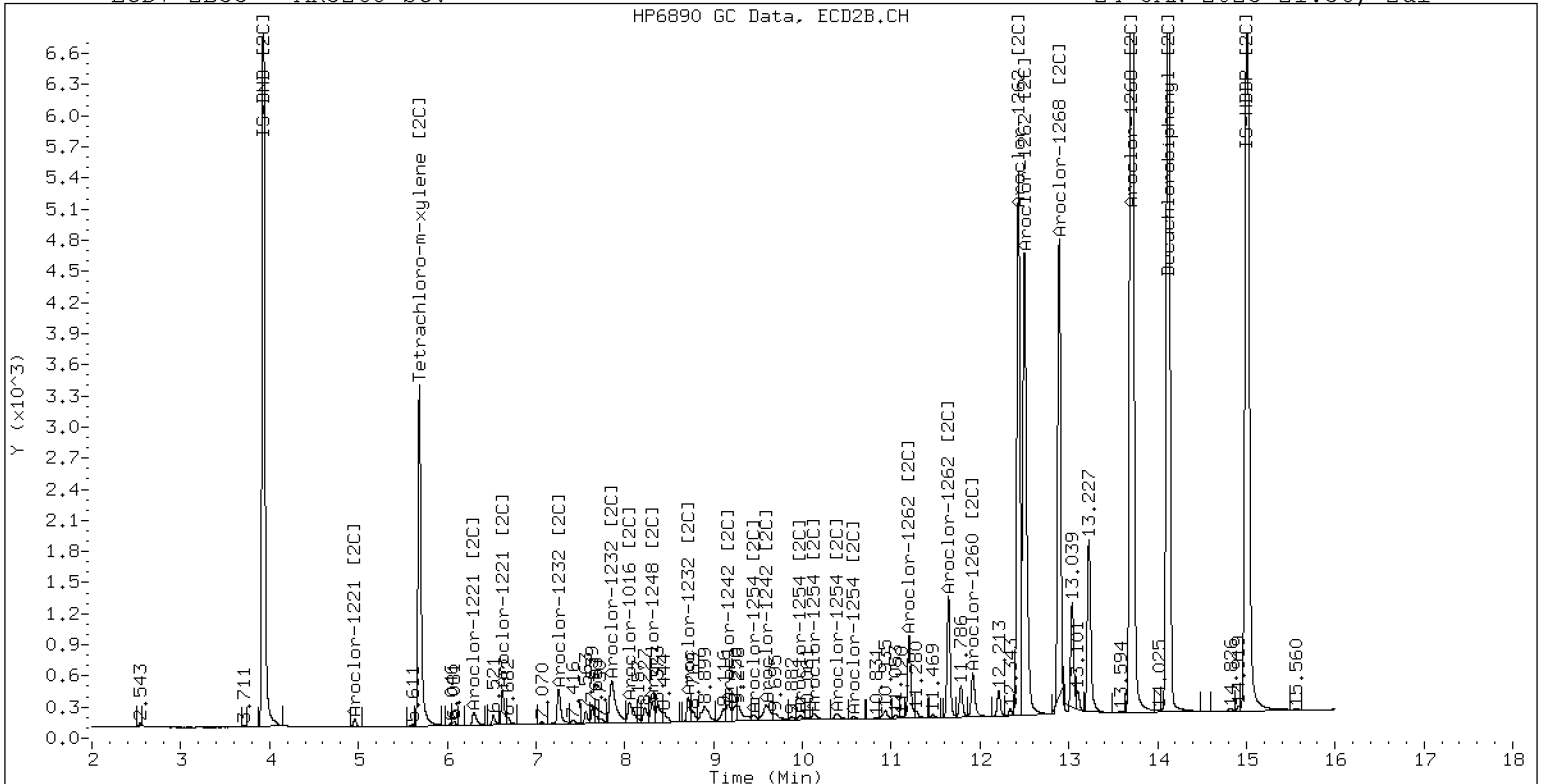
24-JAN-2023 21:36, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR3268 SCV

24-JAN-2023 21:36, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
8082 DDT SCREEN REPORT

Data file 1: /230124.b/01242330ECD7.D

ARI ID: DDTS

| RT | ZB5 Col Shift Response | ZB35 Col Shift Response | RT | ZB5 on col | ZB35 on col | RPD | Compound/Flag |
|--------|---------------------------|----------------------------|--------|---------------|----------------|-------|---------------|
| 9.263 | 0.000 | 519078 | 9.912 | 0.100 | 0.100 | 0.0 | 2,4-DDE |
| 10.296 | 0.000 | 1468204 | 10.666 | 0.100 | 0.200# | 66.7* | 2,4-DDT |
| 9.687 | 0.000 | 883988 | 10.211 | 0.100 | 0.100 | 0.0 | 4,4-DDE |
| 0.000 | -10.281 | 0 | 10.666 | 0.000 | 0.200# | ---- | 4,4-DDD |

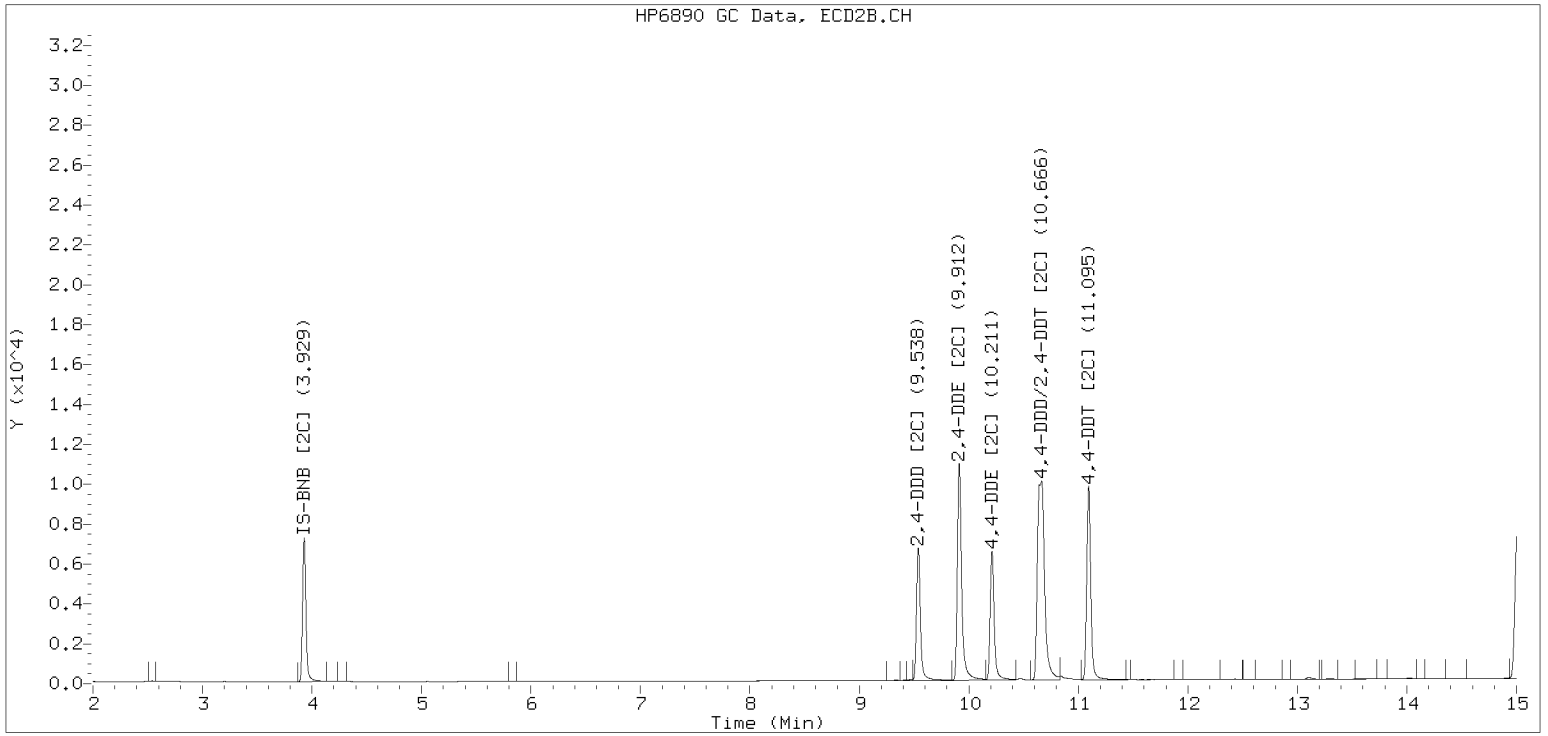
Indicates value is from co-eluting peaks

* Indicates RPD > 40%

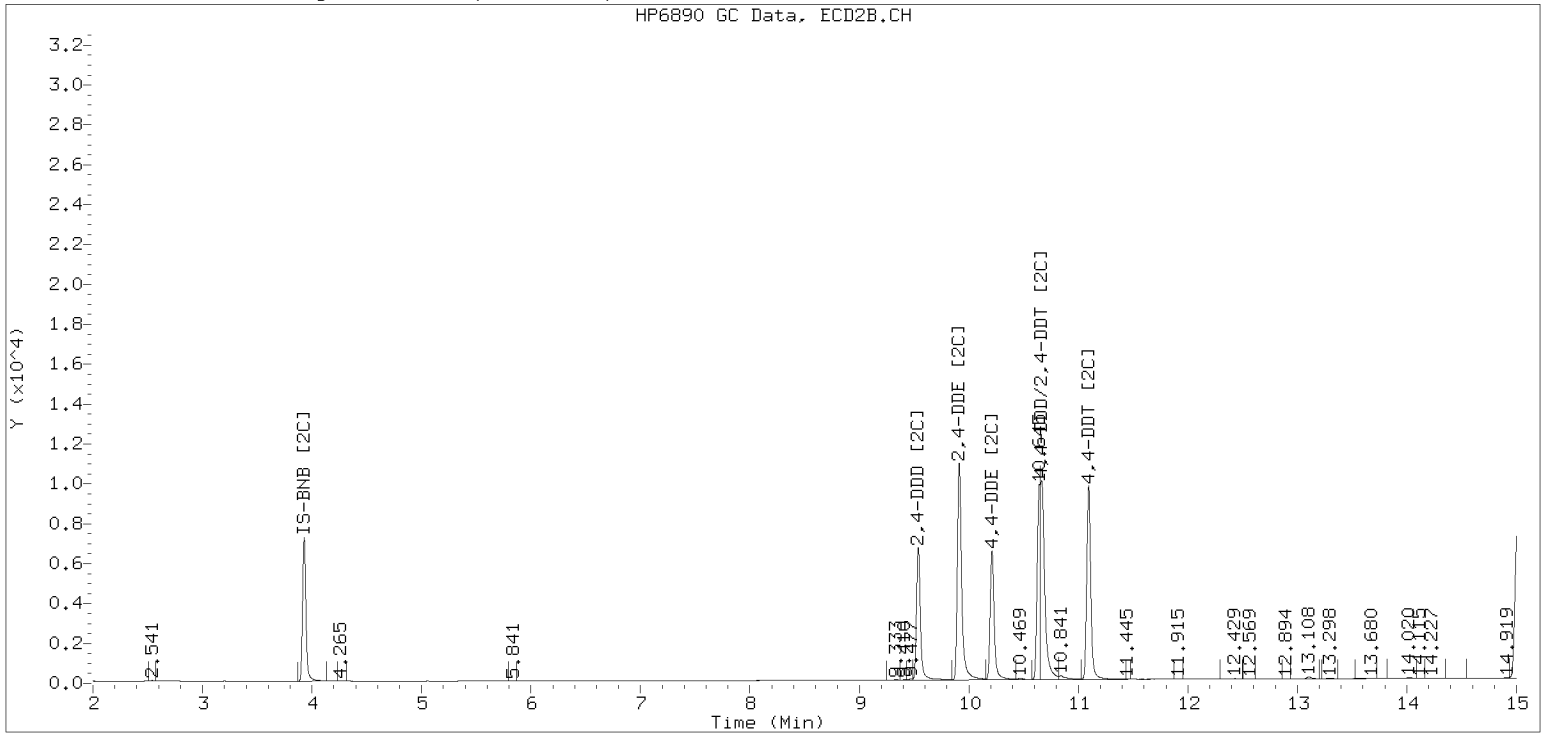
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230124.b/230124.b/01242330ECD7.D Injection Date: 24-JAN-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230124.b/01242331ECD7.D
Data file 2: /230124.b/230124.b/01242331ECD7.D
Method: \\target\share\chem4\ecd7.i\230124.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: DDT BD
Client ID:
Injection Date: 24-JAN-2023 22:18
Report Date: 01/25/2023 10:54
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

| RT | ZB5 Col Shift | Response | RT | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag |
|--------|---------------|----------|-------|----------------|----------|------------|-------------|--------|----------------------|
| 5.809 | -0.000 | 249607 | 0.000 | 0.000 | 0 | 36.2 | 0.1 | 198.6* | Tetrachloro-m-xylene |
| 13.893 | 0.001 | 342925 | 0.000 | 0.000 | 0 | 33.3 | 0.1 | 198.4* | Decachlorobiphenyl |

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 503318 | 488086 | -3.0 |
| Hexabromobiphenyl | 647433 | 963404 | 48.8 |

| Standard Cpnd | Column 2 | | |
|--------------------|----------------|-------------|-------|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 336911 | 334787 | -0.6 |
| Hexabromobiphenyl | 382032 | 334787 | -12.4 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-JAN-2023
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | ZB35 Col | | | | | |
|--------------------------|-------|--------|--------|--------|----------|-------------------------|--------|--------|--------|--------|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount |
| Aroclor-1016 | 1 | --- | | | 0.0 | 1 | 3.929 | -0.000 | 334787 | 80.0 |
| Aroclor-1016 | 2 | --- | | | 0.0 | NS | --- | | | ---- |
| Aroclor-1016 | 3 | --- | | | 0.0 | NS | --- | | | ---- |
| Aroclor-1016 | 4 | --- | | | 0.0 | NS | --- | | | ---- |
| CollAve: <3 Quant Peaks | | | | | | Col2Ave: <3 Quant Peaks | | | | |
| Aroclor-1221 | 1 | --- | | | 0.0 | 1 | 9.924 | 0.012 | 8335 | 0.0 |
| Aroclor-1221 | 2 | --- | | | 0.0 | NS | --- | | | ---- |
| Aroclor-1221 | 3 | --- | | | 0.0 | NS | --- | | | ---- |
| CollAve: <3 Quant Peaks | | | | | | Col2Ave: <3 Quant Peaks | | | | |
| Aroclor-1232 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 |
| Aroclor-1232 | 2 | --- | | | 0.0 | NS | --- | | | ---- |
| Aroclor-1232 | 3 | --- | | | 0.0 | NS | --- | | | ---- |
| Aroclor-1232 | 4 | --- | | | 0.0 | NS | --- | | | ---- |
| CollAve: <3 Quant Peaks | | | | | | Col2Ave: <3 Quant Peaks | | | | |
| Aroclor-1242 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 |
| Aroclor-1242 | 2 | --- | | | 0.0 | NS | --- | | | ---- |
| Aroclor-1242 | 3 | --- | | | 0.0 | NS | --- | | | ---- |
| Aroclor-1242 | 4 | --- | | | 0.0 | NS | --- | | | ---- |
| CollAve: <3 Quant Peaks | | | | | | Col2Ave: <3 Quant Peaks | | | | |
| Aroclor-1248 | 1 | --- | | | 0.0 | 1 | 10.681 | 0.016 | 29738 | 0.0 |
| Aroclor-1248 | 2 | --- | | | 0.0 | NS | --- | | | ---- |
| Aroclor-1248 | 3 | 8.973 | -0.026 | 2304 | 3.9 | NS | --- | | | ---- |
| Aroclor-1248 | 4 | 9.235 | -0.059 | 1484 | 5.0 | NS | --- | | | ---- |
| CollAve: <3 Quant Peaks | | | | | | Col2Ave: <3 Quant Peaks | | | | |
| Aroclor-1254 | 1 | 9.235 | -0.064 | 1484 | 3.0 | 1 | 11.098 | 0.003 | 696435 | 0.1 |
| Aroclor-1254 | 2 | 9.378 | -0.000 | 295 | 1.4 | NS | --- | | | ---- |
| Aroclor-1254 | 3 | 9.703 | 0.034 | 11396 | 35.8 | NS | --- | | | ---- |
| Aroclor-1254 | 4 | --- | | | 0.0 | NS | --- | | | ---- |
| Aroclor-1254 | 5 | 10.272 | 0.095 | 32481 | 80.0 | NS | --- | | | ---- |
| Total CollAve (4 peaks): | | | | 30.0 | | Col2Ave: <3 Quant Peaks | | | | |
| Aroclor-1260 | 1 | 11.115 | 0.071 | 9308 | 17.2 | 1 | --- | | | 0.0 |
| Aroclor-1260 | 2 | 11.344 | -0.016 | 232461 | 418.4 | NS | --- | | | ---- |
| Aroclor-1260 | 3 | 11.698 | -0.036 | 294 | 0.2 | NS | --- | | | ---- |
| Aroclor-1260 | 4 | --- | | | 0.0 | NS | --- | | | ---- |
| Aroclor-1260 | 5 | --- | | | 0.0 | NS | --- | | | ---- |
| Total CollAve (3 peaks): | | | | 145.3 | | Col2Ave: <3 Quant Peaks | | | | |
| Aroclor-1262 | 1 | 10.763 | -0.070 | 892438 | 2290.6 | 1 | --- | | | 0.0 |
| Aroclor-1262 | 2 | --- | | | 0.0 | NS | --- | | | ---- |
| Aroclor-1262 | 3 | --- | | | 0.0 | NS | --- | | | ---- |
| Aroclor-1262 | 4 | 12.990 | 0.001 | 748 | 1.2 | NS | --- | | | ---- |
| CollAve: <3 Quant Peaks | | | | | | Col2Ave: <3 Quant Peaks | | | | |
| Aroclor-1268 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 |
| Aroclor-1268 | 2 | --- | | | 0.0 | NS | --- | | | ---- |
| Aroclor-1268 | 3 | 12.620 | -0.079 | 4678 | 3.6 | NS | --- | | | ---- |
| Aroclor-1268 | 4 | 13.510 | 0.021 | 3115 | 0.8 | NS | --- | | | ---- |
| CollAve: <3 Quant Peaks | | | | | | Col2Ave: <3 Quant Peaks | | | | |

Total PCB Area Coll1 (5.909 - 13.792) = 1961348

Coll1 Total PCB = 0.3 ppm*

Total PCB Area Col2 (5.909 - 13.792) = 1177441 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.



SECOND-SOURCE CALIBRATION VERIFICATION
EPA 8082A

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Calibration: GA00061

Laboratory ID: SLA0281-SCV1

Sequence: SLA0281

Sequence Name: AR1660SCV1

Standard ID: K007655

| ANALYTE | EXPECTED (ug/L) | FOUND (ug/L) | % DRIFT | QC LIMIT |
|----------------------------|----------------------------|-------------------------|----------------|-----------------|
| Aroclor 1016 | 250.00 | 217 | -13.2 | 20.00 |
| Aroclor 1016 [2C] | 250.00 | 220 | -11.9 | 20.00 |
| Aroclor 1260 | 250.00 | 211 | -15.7 | 20.00 |
| Aroclor 1260 [2C] | 250.00 | 238 | -4.9 | 20.00 |
| Decachlorobiphenyl | 40.000 | 37.9 | -5.1 | 20.00 |
| Tetrachlorometaxylene | 40.000 | 37.5 | -6.2 | 20.00 |
| Decachlorobiphenyl [2C] | 40.000 | 40.2 | 0.6 | 20.00 |
| Tetrachlorometaxylene [2C] | 40.000 | 37.3 | -6.8 | 20.00 |

* Indicates values outside of QC limits
[2C] indicates second-column analyte.

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230124.b/01242324ECD7.D
Data file 2: /230124.b/230124.b/01242324ECD7.D
Method: \\target\share\chem4\ecd7.i\230124.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660 SCV
Client ID:
Injection Date: 24-JAN-2023 19:51
Report Date: 01/25/2023 10:53
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

| RT | ZB5 Col Shift | Response | RT | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag |
|--------|---------------|----------|--------|----------------|----------|------------|-------------|-----|----------------------|
| 5.809 | -0.000 | 268739 | 5.686 | -0.001 | 172961 | 37.5 | 37.3 | 0.6 | Tetrachloro-m-xylene |
| 13.891 | -0.000 | 381489 | 14.121 | 0.001 | 320416 | 37.9 | 40.2 | 5.9 | Decachlorobiphenyl |

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1 | | | |
|--------------------|----------------|-------------|------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 503318 | 506576 | 0.6 |
| Hexabromobiphenyl | 647433 | 940129 | 45.2 |
| Column 2 | | | |
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 336911 | 343102 | 1.8 |
| Hexabromobiphenyl | 382032 | 501702 | 31.3 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-JAN-2023
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | ZB35 Col | | | | | |
|--------------------------|-------|--------|--------|--------|----------|--------------------------|--------|--------|--------|-----------------|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount |
| Aroclor-1016 | 1 | 7.271 | 0.001 | 40958 | 217.6 | 1 | 7.255 | 0.001 | 40190 | 216.0 |
| Aroclor-1016 | 2 | 7.655 | 0.004 | 135282 | 216.9 | 2 | 7.852 | 0.001 | 90338 | 221.5 |
| Aroclor-1016 | 3 | 7.791 | 0.003 | 61557 | 214.5 | 3 | 8.052 | 0.002 | 37810 | 227.2 |
| Aroclor-1016 | 4 | 8.406 | 0.002 | 40372 | 218.7 | 4 | 8.306 | 0.000 | 28171 | 215.9 |
| Total CollAve (4 peaks): | | | | 216.9 | | Total Col2Ave (4 peaks): | | | | 220.2 RPD = 1 |
| Corrected Ave (3 peaks): | | | | 216.3 | | Corrected Ave (3 peaks): | | | | 217.8 RPD = 1 |
| Aroclor-1221 | 1 | 4.732 | -0.001 | 256 | 6.8 | 1 | --- | | | 0.0 |
| Aroclor-1221 | 2 | 6.131 | -0.002 | 4742 | 61.9 | 2 | 6.302 | 0.004 | 5037 | 91.4 |
| Aroclor-1221 | 3 | 6.384 | -0.000 | 27448 | 154.4 | 3 | 6.623 | -0.000 | 18931 | 203.5 |
| Total CollAve (3 peaks): | | | | 74.4 | | Col2Ave: <3 Quant Peaks | | | | |
| Aroclor-1232 | 1 | 4.732 | -0.001 | 256 | 11.0 | 1 | --- | | | 0.0 |
| Aroclor-1232 | 2 | 6.131 | -0.002 | 4742 | 90.0 | 2 | 7.255 | -0.001 | 40190 | 470.8 |
| Aroclor-1232 | 3 | 7.655 | -0.004 | 135282 | 513.5 | 3 | 7.852 | -0.002 | 90338 | 519.5 |
| Aroclor-1232 | 4 | 8.581 | -0.003 | 56938 | 504.9 | 4 | 8.713 | -0.001 | 27776 | 574.9 |
| Total CollAve (4 peaks): | | | | 279.8 | | Total Col2Ave (3 peaks): | | | | 521.7 RPD = 60* |
| Corrected Ave (3 peaks): | | | | 202.0 | | Corrected Ave: < 3 Peaks | | | | |
| Aroclor-1242 | 1 | 7.271 | -0.000 | 40958 | 264.0 | 1 | 7.255 | -0.000 | 40190 | 267.8 |
| Aroclor-1242 | 2 | 7.655 | -0.001 | 135282 | 266.5 | 2 | 7.852 | -0.001 | 90338 | 271.0 |
| Aroclor-1242 | 3 | 8.406 | -0.001 | 40372 | 267.7 | 3 | 9.115 | -0.045 | 15827 | 151.6 |
| Aroclor-1242 | 4 | 8.581 | -0.000 | 56938 | 249.9 | 4 | 9.587 | 0.001 | 3186 | 23.0 |
| Total CollAve (4 peaks): | | | | 262.0 | | Total Col2Ave (4 peaks): | | | | 178.4 RPD = 38 |
| Corrected Ave (3 peaks): | | | | 260.1 | | Corrected Ave (3 peaks): | | | | 147.5 RPD = 55* |
| Aroclor-1248 | 1 | 8.406 | 0.000 | 40372 | 159.3 | 1 | 8.306 | 0.000 | 28171 | 181.6 |
| Aroclor-1248 | 2 | 8.581 | 0.001 | 56938 | 176.1 | 2 | 8.713 | 0.000 | 27776 | 166.4 |
| Aroclor-1248 | 3 | 8.995 | -0.004 | 58213 | 94.1 | 3 | 9.115 | -0.042 | 15827 | 77.6 |
| Aroclor-1248 | 4 | 9.304 | 0.010 | 36620 | 119.6 | 4 | 9.587 | 0.006 | 3186 | 12.6 |
| Total CollAve (4 peaks): | | | | 137.3 | | Total Col2Ave (4 peaks): | | | | 109.6 RPD = 22 |
| Corrected Ave (3 peaks): | | | | 124.4 | | Corrected Ave (3 peaks): | | | | 85.5 RPD = 37 |
| Aroclor-1254 | 1 | 9.304 | 0.005 | 36620 | 70.9 | 1 | 9.450 | 0.002 | 20792 | 83.5 |
| Aroclor-1254 | 2 | --- | | | 0.0 | 2 | 9.972 | 0.003 | 2640 | 13.1 |
| Aroclor-1254 | 3 | 9.673 | 0.003 | 4075 | 12.3 | 3 | 10.148 | 0.027 | 52902 | 120.5 |
| Aroclor-1254 | 4 | 9.813 | 0.004 | 14733 | 22.7 | 4 | 10.372 | 0.000 | 71680 | 163.3 |
| Aroclor-1254 | 5 | 10.122 | -0.055 | 119528 | 283.6 | 5 | 10.569 | -0.000 | 98559 | 403.2 |
| Total CollAve (4 peaks): | | | | 97.4 | | Total Col2Ave (5 peaks): | | | | 156.7 RPD = 47* |
| Corrected Ave (3 peaks): | | | | 35.3 | | Corrected Ave (4 peaks): | | | | 95.1 RPD = 92* |
| Aroclor-1260 | 1 | 11.045 | 0.002 | 116435 | 220.7 | 1 | 11.654 | 0.000 | 81795 | 226.0 |
| Aroclor-1260 | 2 | 11.362 | 0.001 | 116918 | 215.6 | 2 | 11.920 | 0.002 | 217887 | 238.0 |
| Aroclor-1260 | 3 | 11.738 | 0.003 | 303264 | 212.5 | 3 | 12.437 | 0.001 | 56212 | 246.3 |
| Aroclor-1260 | 4 | 12.143 | 0.004 | 141534 | 191.9 | 4 | 12.502 | 0.000 | 142689 | 240.8 |
| Aroclor-1260 | 5 | 12.246 | 0.002 | 68446 | 212.9 | NS | --- | | | ---- |
| Total CollAve (5 peaks): | | | | 210.7 | | Total Col2Ave (4 peaks): | | | | 237.8 RPD = 12 |
| Corrected Ave (4 peaks): | | | | 208.2 | | Corrected Ave (3 peaks): | | | | 234.9 RPD = 12 |
| Aroclor-1262 | 1 | 10.830 | -0.002 | 169725 | 446.4 | 1 | 11.200 | 0.000 | 83995 | 171.1 |
| Aroclor-1262 | 2 | 12.246 | 0.000 | 68446 | 114.1 | 2 | 11.654 | 0.001 | 81795 | 195.9 |
| Aroclor-1262 | 3 | 12.320 | -0.000 | 84201 | 129.2 | 3 | 12.437 | 0.003 | 56212 | 126.4 |
| Aroclor-1262 | 4 | 12.989 | -0.000 | 78065 | 131.5 | 4 | 12.502 | -0.001 | 142689 | 200.4 |
| Total CollAve (4 peaks): | | | | 205.3 | | Total Col2Ave (4 peaks): | | | | 173.4 RPD = 17 |
| Corrected Ave (3 peaks): | | | | 124.9 | | Corrected Ave (3 peaks): | | | | 164.5 RPD = 27 |
| Aroclor-1268 | 1 | 12.246 | 0.001 | 68446 | 44.1 | 1 | 12.437 | 0.003 | 56212 | 48.0 |
| Aroclor-1268 | 2 | 12.320 | 0.002 | 84201 | 54.4 | 2 | 12.502 | 0.001 | 142689 | 114.4 |
| Aroclor-1268 | 3 | 12.726 | 0.027 | 33020 | 25.7 | 3 | 12.894 | 0.001 | 1495 | 1.4 |
| Aroclor-1268 | 4 | 13.490 | 0.001 | 16019 | 4.2 | 4 | 13.709 | 0.001 | 10120 | 3.2 |
| Total CollAve (4 peaks): | | | | 32.1 | | Total Col2Ave (4 peaks): | | | | 41.8 RPD = 26 |
| Corrected Ave (3 peaks): | | | | 24.7 | | Corrected Ave (3 peaks): | | | | 17.5 RPD = 34 |

Total PCB Area Col1 (5.909 - 13.792) = 2789370 Col1 Total PCB = 0.5 ppm*

Total PCB Area Col2 (5.787 - 14.020) = 1810543 Col2 Total PCB = 0.5 ppm*

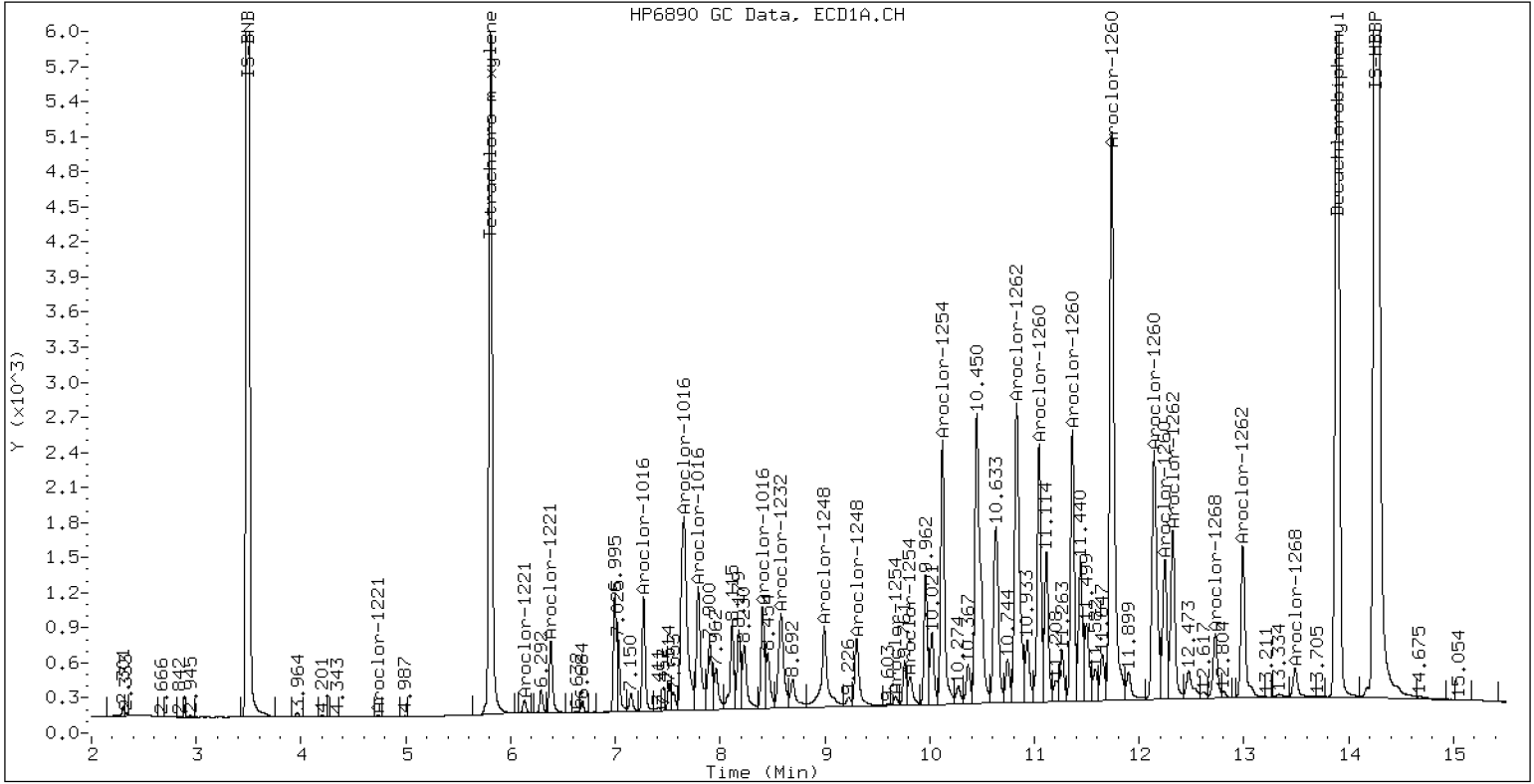
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 AR1660 SCV

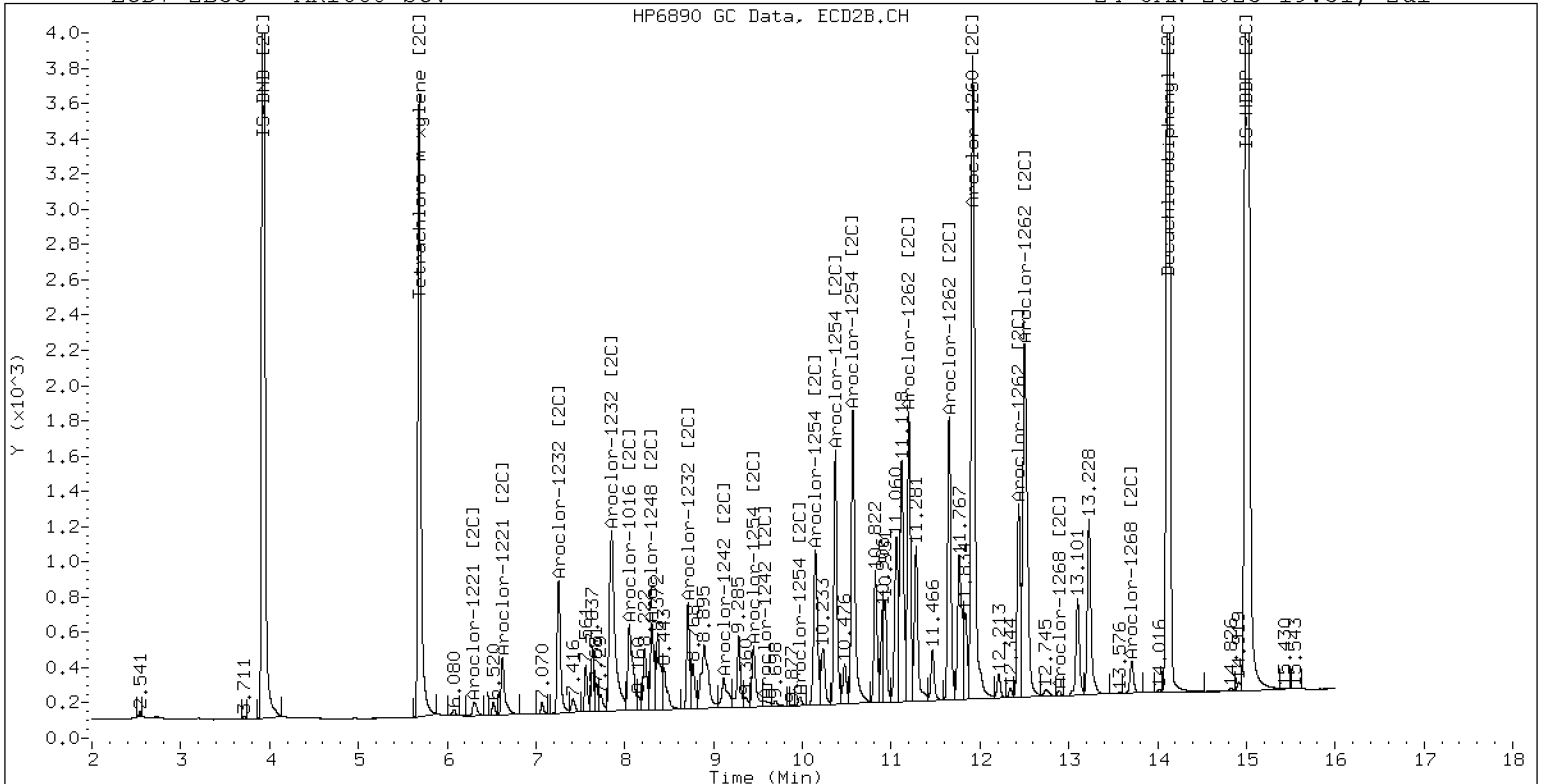
24-JAN-2023 19:51, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660 SCV

24-JAN-2023 19:51, 2ul



ZB-35 Manual Integration: NO



SECOND-SOURCE CALIBRATION VERIFICATION
EPA 8082A

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Calibration: GA00061

Laboratory ID: SLA0281-SCV2

Sequence: SLA0281

Sequence Name: AR1242SCV2

Standard ID: K007656

| ANALYTE | EXPECTED (ug/L) | FOUND (ug/L) | % DRIFT | QC LIMIT |
|----------------------------|----------------------------|-------------------------|----------------|-----------------|
| Aroclor 1242 | 250.00 | 223 | -10.9 | 20.00 |
| Aroclor 1242 [2C] | 250.00 | 235 | -5.9 | 20.00 |
| Decachlorobiphenyl | 40.000 | 38.5 | -3.6 | 20.00 |
| Tetrachlorometaxylene | 40.000 | 37.8 | -5.6 | 20.00 |
| Decachlorobiphenyl [2C] | 40.000 | 40.3 | 0.9 | 20.00 |
| Tetrachlorometaxylene [2C] | 40.000 | 37.4 | -6.6 | 20.00 |

* Indicates values outside of QC limits

[2C] indicates second-column analyte.

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230124.b/01242325ECD7.D
Data file 2: /230124.b/230124.b/01242325ECD7.D
Method: \\target\share\chem4\ecd7.i\230124.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1242 SCV
Client ID:
Injection Date: 24-JAN-2023 20:12
Report Date: 01/25/2023 10:53
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

| ZB5 Col | | ZB35 Col | | | ZB5 | ZB35 | RPD | Compound/Flag | |
|---------|--------|----------|--------|--------|----------|--------|------|---------------|----------------------|
| RT | Shift | Response | RT | Shift | Response | on col | | | on col |
| 5.809 | -0.000 | 268580 | 5.686 | -0.001 | 172592 | 37.8 | 37.4 | 1.1 | Tetrachloro-m-xylene |
| 13.892 | 0.001 | 392918 | 14.121 | 0.001 | 323869 | 38.5 | 40.3 | 4.6 | Decachlorobiphenyl |

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1 | | | |
|--------------------|----------------|-------------|------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 503318 | 503089 | -0.0 |
| Hexabromobiphenyl | 647433 | 953137 | 47.2 |
| Column 2 | | | |
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 336911 | 341704 | 1.4 |
| Hexabromobiphenyl | 382032 | 505860 | 32.4 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-JAN-2023
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | ZB35 Col | | | | | |
|--------------------------|-------|--------|--------|--------|----------|--------------------------|--------|--------|-------|-----------------|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount |
| Aroclor-1016 | 1 | 7.271 | 0.001 | 29901 | 159.9 | 1 | 7.255 | 0.000 | 32077 | 173.1 |
| Aroclor-1016 | 2 | 7.653 | 0.003 | 107333 | 173.3 | 2 | 7.851 | -0.000 | 71438 | 175.9 |
| Aroclor-1016 | 3 | 7.790 | 0.002 | 45013 | 157.9 | 3 | 8.051 | 0.001 | 29072 | 175.4 |
| Aroclor-1016 | 4 | 8.406 | 0.002 | 32958 | 179.8 | 4 | 8.306 | 0.001 | 21761 | 167.5 |
| Total CollAve (4 peaks): | | | | 167.7 | | Total Col2Ave (4 peaks): | | | | 173.0 RPD = 3 |
| Corrected Ave (3 peaks): | | | | 163.7 | | Corrected Ave (3 peaks): | | | | 172.0 RPD = 5 |
| Aroclor-1221 | 1 | 4.737 | 0.004 | 141 | 3.8 | 1 | --- | | | 0.0 |
| Aroclor-1221 | 2 | 6.133 | -0.001 | 3649 | 48.0 | 2 | 6.317 | 0.018 | 4290 | 78.2 |
| Aroclor-1221 | 3 | 6.384 | -0.000 | 21189 | 120.0 | 3 | 6.624 | 0.001 | 14613 | 157.7 |
| Total CollAve (3 peaks): | | | | 57.3 | | Col2Ave: <3 Quant Peaks | | | | |
| Aroclor-1232 | 1 | 4.737 | 0.003 | 141 | 6.1 | 1 | --- | | | 0.0 |
| Aroclor-1232 | 2 | 6.133 | -0.001 | 3649 | 69.7 | 2 | 7.255 | -0.002 | 32077 | 377.3 |
| Aroclor-1232 | 3 | 7.653 | -0.005 | 107333 | 410.2 | 3 | 7.851 | -0.004 | 71438 | 412.5 |
| Aroclor-1232 | 4 | 8.581 | -0.003 | 59617 | 532.3 | 4 | 8.713 | -0.000 | 22563 | 468.9 |
| Total CollAve (4 peaks): | | | | 254.6 | | Total Col2Ave (3 peaks): | | | | 419.6 RPD = 49* |
| Corrected Ave (3 peaks): | | | | 162.0 | | Corrected Ave: < 3 Peaks | | | | |
| Aroclor-1242 | 1 | 7.271 | 0.000 | 29901 | 194.1 | 1 | 7.255 | -0.001 | 32077 | 214.6 |
| Aroclor-1242 | 2 | 7.653 | -0.002 | 107333 | 212.9 | 2 | 7.851 | -0.002 | 71438 | 215.2 |
| Aroclor-1242 | 3 | 8.406 | -0.000 | 32958 | 220.0 | 3 | 9.156 | -0.004 | 27374 | 263.3 |
| Aroclor-1242 | 4 | 8.581 | -0.000 | 59617 | 263.5 | 4 | 9.581 | -0.006 | 34156 | 247.9 |
| Total CollAve (4 peaks): | | | | 222.6 | | Total Col2Ave (4 peaks): | | | | 235.3 RPD = 6 |
| Corrected Ave (3 peaks): | | | | 209.0 | | Corrected Ave (3 peaks): | | | | 225.9 RPD = 8 |
| Aroclor-1248 | 1 | 8.406 | 0.001 | 32958 | 131.0 | 1 | 8.306 | 0.001 | 21761 | 140.9 |
| Aroclor-1248 | 2 | 8.581 | 0.001 | 59617 | 185.7 | 2 | 8.713 | 0.001 | 22563 | 135.7 |
| Aroclor-1248 | 3 | 9.003 | 0.004 | 72557 | 118.2 | 3 | 9.156 | -0.000 | 27374 | 134.7 |
| Aroclor-1248 | 4 | 9.296 | 0.003 | 28122 | 92.5 | 4 | 9.581 | -0.001 | 34156 | 135.9 |
| Total CollAve (4 peaks): | | | | 131.8 | | Total Col2Ave (4 peaks): | | | | 136.8 RPD = 4 |
| Corrected Ave (3 peaks): | | | | 113.9 | | Corrected Ave (3 peaks): | | | | 135.5 RPD = 17 |
| Aroclor-1254 | 1 | 9.296 | -0.002 | 28122 | 54.8 | 1 | 9.448 | 0.000 | 11650 | 47.0 |
| Aroclor-1254 | 2 | 9.380 | 0.002 | 9292 | 42.4 | 2 | 9.968 | -0.001 | 7642 | 38.1 |
| Aroclor-1254 | 3 | 9.671 | 0.001 | 12871 | 39.2 | 3 | 10.120 | -0.001 | 16012 | 36.6 |
| Aroclor-1254 | 4 | 9.808 | -0.000 | 22113 | 34.4 | 4 | 10.378 | 0.007 | 16300 | 37.3 |
| Aroclor-1254 | 5 | 10.176 | -0.001 | 17771 | 42.5 | 5 | 10.572 | 0.004 | 4439 | 18.2 |
| Total CollAve (5 peaks): | | | | 42.7 | | Total Col2Ave (5 peaks): | | | | 35.5 RPD = 18 |
| Corrected Ave (4 peaks): | | | | 39.6 | | Corrected Ave (4 peaks): | | | | 32.6 RPD = 19 |
| Aroclor-1260 | 1 | 11.047 | 0.003 | 741 | 1.4 | 1 | 11.663 | 0.010 | 1794 | 4.9 |
| Aroclor-1260 | 2 | 11.366 | 0.006 | 379 | 0.7 | 2 | 11.923 | 0.005 | 1208 | 1.3 |
| Aroclor-1260 | 3 | 11.745 | 0.011 | 860 | 0.6 | 3 | 12.507 | 0.071 | 977 | 4.2 |
| Aroclor-1260 | 4 | 12.154 | 0.014 | 1536 | 2.1 | 4 | --- | | | 0.0 |
| Aroclor-1260 | 5 | --- | | | 0.0 | NS | --- | | | ---- |
| Total CollAve (4 peaks): | | | | 1.2 | | Total Col2Ave (3 peaks): | | | | 3.5 RPD = 99* |
| Corrected Ave (3 peaks): | | | | 0.9 | | Corrected Ave: < 3 Peaks | | | | |
| Aroclor-1262 | 1 | 10.836 | 0.004 | 10654 | 27.6 | 1 | 11.120 | -0.080 | 8071 | 16.3 |
| Aroclor-1262 | 2 | 12.154 | -0.092 | 1536 | 2.5 | 2 | 11.663 | 0.010 | 1794 | 4.3 |
| Aroclor-1262 | 3 | --- | | | 0.0 | 3 | 12.507 | 0.073 | 977 | 2.2 |
| Aroclor-1262 | 4 | 13.040 | 0.051 | 1739 | 2.9 | 4 | --- | | | 0.0 |
| Total CollAve (3 peaks): | | | | 11.0 | | Total Col2Ave (3 peaks): | | | | 7.6 RPD = 37 |
| Corrected Ave: < 3 Peaks | | | | | | Corrected Ave: < 3 Peaks | | | | |
| Aroclor-1268 | 1 | 12.154 | -0.091 | 1536 | 1.0 | 1 | 12.507 | 0.073 | 977 | 0.8 |
| Aroclor-1268 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 |
| Aroclor-1268 | 3 | 12.623 | -0.076 | 5080 | 3.9 | 3 | 12.894 | 0.001 | 98 | 0.1 |
| Aroclor-1268 | 4 | 13.501 | 0.012 | 2725 | 0.7 | 4 | 13.707 | -0.001 | 1566 | 0.5 |
| Total CollAve (3 peaks): | | | | 1.9 | | Total Col2Ave (3 peaks): | | | | 0.5 RPD = 120* |
| Corrected Ave: < 3 Peaks | | | | | | Corrected Ave: < 3 Peaks | | | | |

Total PCB Area Col1 (5.909 - 13.792) = 915887 Col1 Total PCB = 0.2 ppm*

Total PCB Area Col2 (5.787 - 14.020) = 575897 Col2 Total PCB = 0.2 ppm*

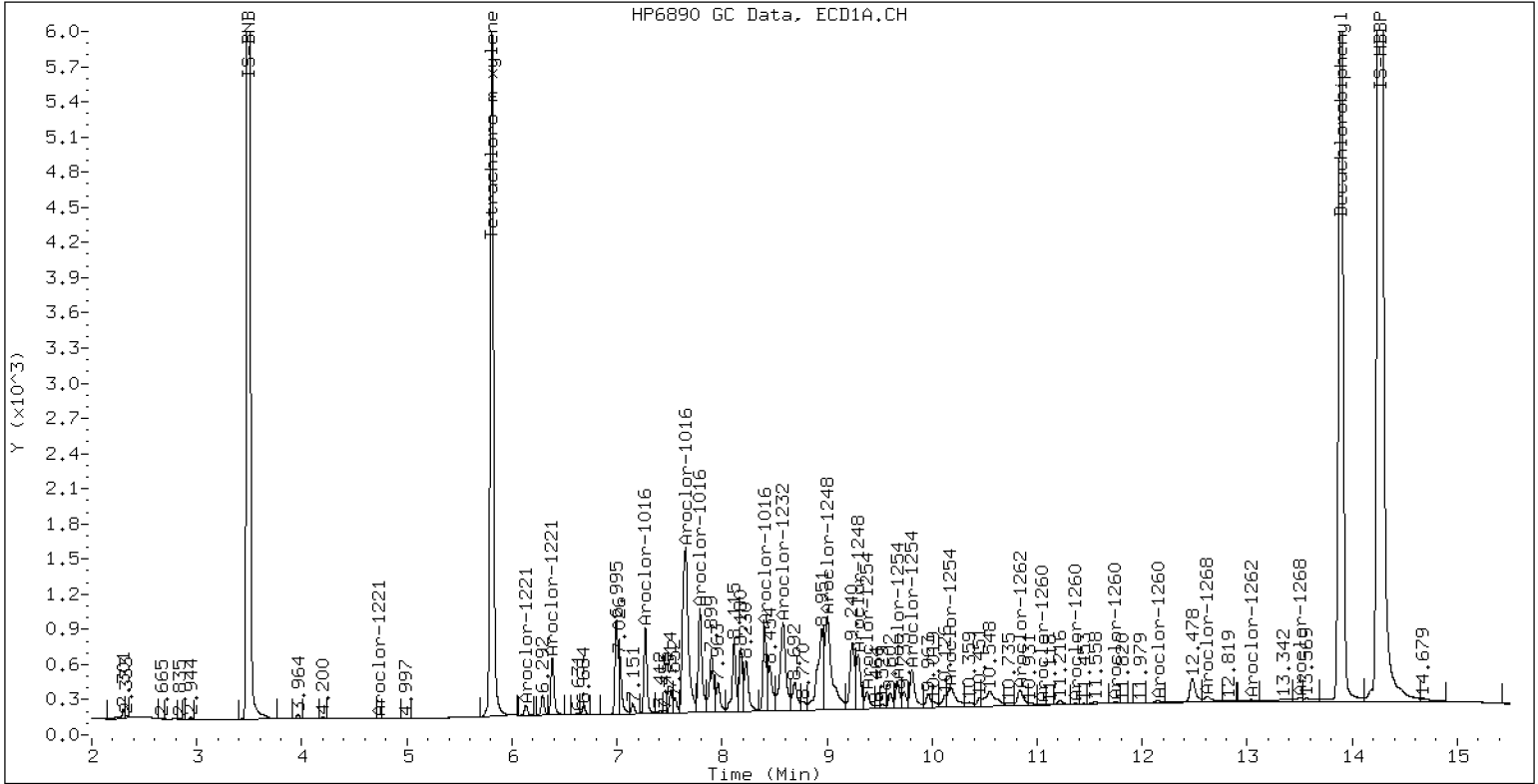
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 AR1242 SCV

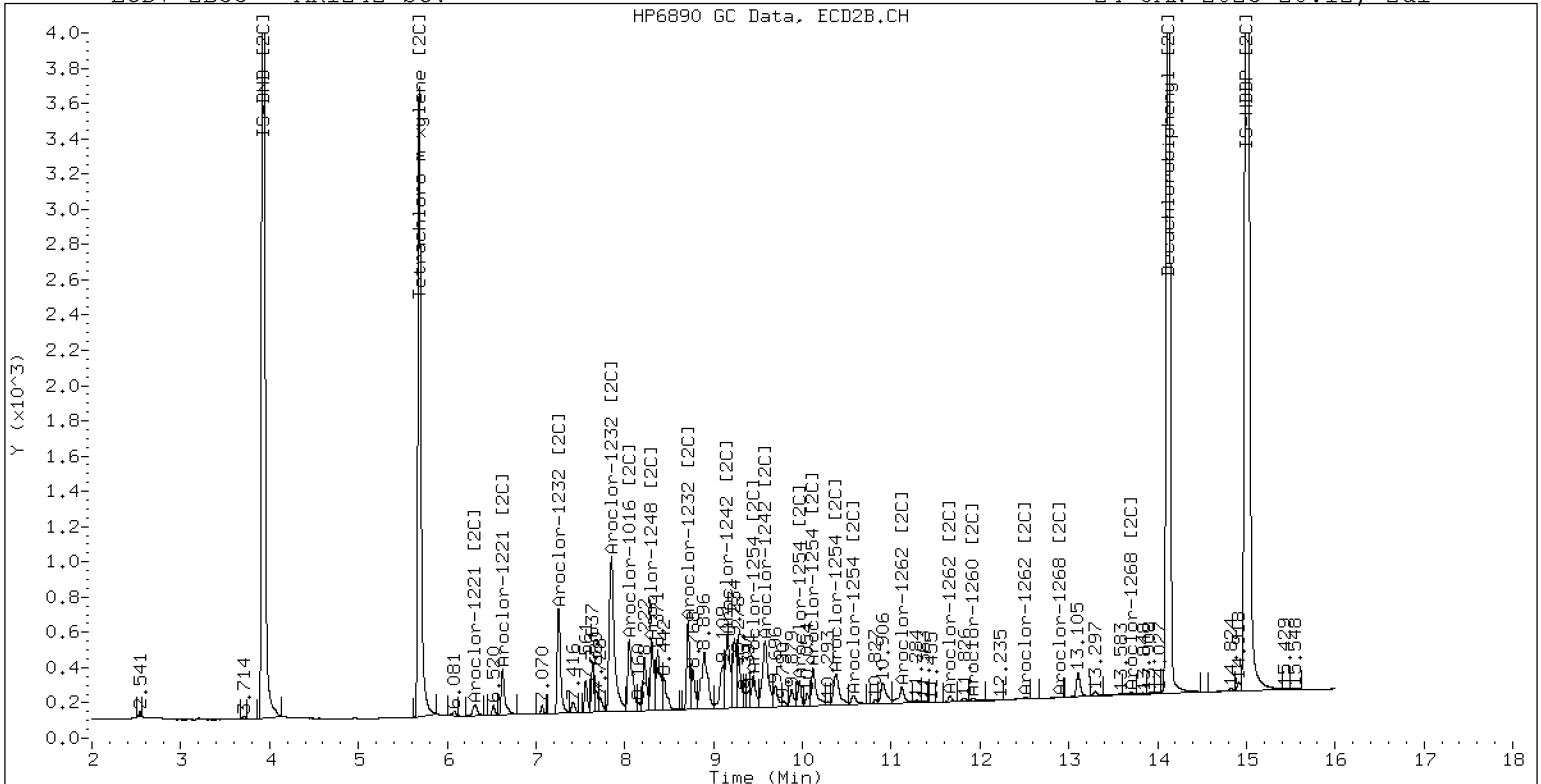
24-JAN-2023 20:12, 2u1



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1242 SCV

24-JAN-2023 20:12, 2u1



ZB-35 Manual Integration: NO



SECOND-SOURCE CALIBRATION VERIFICATION
EPA 8082A

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Calibration: GA00061

Laboratory ID: SLA0281-SCV3

Sequence: SLA0281

Sequence Name: AR1248SCV3

Standard ID: K007657

| ANALYTE | EXPECTED (ug/L) | FOUND (ug/L) | % DRIFT | QC LIMIT |
|----------------------------|----------------------------|-------------------------|----------------|-----------------|
| Aroclor 1248 | 250.00 | 237 | -5.1 | 20.00 |
| Aroclor 1248 [2C] | 250.00 | 231 | -7.6 | 20.00 |
| Decachlorobiphenyl | 40.000 | 38.3 | -4.3 | 20.00 |
| Tetrachlorometaxylene | 40.000 | 36.8 | -8.1 | 20.00 |
| Decachlorobiphenyl [2C] | 40.000 | 39.6 | -1.1 | 20.00 |
| Tetrachlorometaxylene [2C] | 40.000 | 36.5 | -8.6 | 20.00 |

* Indicates values outside of QC limits

[2C] indicates second-column analyte.

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230124.b/01242326ECD7.D
Data file 2: /230124.b/230124.b/01242326ECD7.D
Method: \\target\share\chem4\ecd7.i\230124.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1248 SCV
Client ID:
Injection Date: 24-JAN-2023 20:33
Report Date: 01/25/2023 10:53
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

| RT | ZB5 Col Shift | Response | RT | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag |
|--------|---------------|----------|--------|----------------|----------|------------|-------------|-----|----------------------|
| 5.809 | 0.000 | 263982 | 5.686 | -0.001 | 169991 | 36.8 | 36.5 | 0.6 | Tetrachloro-m-xylene |
| 13.892 | 0.001 | 400655 | 14.121 | 0.001 | 316171 | 38.3 | 39.6 | 3.4 | Decachlorobiphenyl |

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 503318 | 508189 | 1.0 |
| Hexabromobiphenyl | 647433 | 979067 | 51.2 |

| Standard Cpnd | Column 2 | | |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 336911 | 344105 | 2.1 |
| Hexabromobiphenyl | 382032 | 503378 | 31.8 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-JAN-2023
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | ZB35 Col | | | | | |
|--------------------------|-------|--------|--------|--------|----------|--------------------------|--------|--------|-------|----------------|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount |
| Aroclor-1016 | 1 | 7.271 | 0.001 | 14777 | 78.3 | 1 | 7.254 | -0.001 | 16100 | 86.3 |
| Aroclor-1016 | 2 | 7.655 | 0.004 | 70114 | 112.1 | 2 | 7.853 | 0.002 | 47184 | 115.4 |
| Aroclor-1016 | 3 | 7.794 | 0.006 | 27212 | 94.5 | 3 | 8.053 | 0.003 | 9427 | 56.5 |
| Aroclor-1016 | 4 | 8.406 | 0.003 | 59884 | 323.4 | 4 | 8.306 | 0.001 | 36680 | 280.3 |
| Total CollAve (4 peaks): | | | | 152.0 | | Total Col2Ave (4 peaks): | | | | 134.6 RPD = 12 |
| Corrected Ave (3 peaks): | | | | 94.9 | | Corrected Ave (3 peaks): | | | | 86.0 RPD = 10 |
| Aroclor-1221 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 |
| Aroclor-1221 | 2 | 6.133 | -0.000 | 591 | 7.7 | 2 | 6.323 | 0.025 | 1820 | 32.9 |
| Aroclor-1221 | 3 | 6.386 | 0.001 | 2453 | 13.8 | 3 | 6.627 | 0.004 | 1477 | 15.8 |
| CollAve: <3 Quant Peaks | | | | | | Col2Ave: <3 Quant Peaks | | | | |
| Aroclor-1232 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 |
| Aroclor-1232 | 2 | 6.133 | -0.000 | 591 | 11.2 | 2 | 7.254 | -0.002 | 16100 | 188.0 |
| Aroclor-1232 | 3 | 7.655 | -0.004 | 70114 | 265.3 | 3 | 7.853 | -0.001 | 47184 | 270.6 |
| Aroclor-1232 | 4 | 8.581 | -0.003 | 76286 | 674.3 | 4 | 8.714 | 0.000 | 39330 | 811.7 |
| Total CollAve (3 peaks): | | | | 316.9 | | Total Col2Ave (3 peaks): | | | | 423.4 RPD = 29 |
| Corrected Ave: < 3 Peaks | | | | | | Corrected Ave: < 3 Peaks | | | | |
| Aroclor-1242 | 1 | 7.271 | 0.000 | 14777 | 95.0 | 1 | 7.254 | -0.002 | 16100 | 107.0 |
| Aroclor-1242 | 2 | 7.655 | -0.001 | 70114 | 137.7 | 2 | 7.853 | 0.000 | 47184 | 141.2 |
| Aroclor-1242 | 3 | 8.406 | -0.000 | 59884 | 395.8 | 3 | 9.159 | -0.001 | 46988 | 448.9 |
| Aroclor-1242 | 4 | 8.581 | -0.000 | 76286 | 333.8 | 4 | 9.584 | -0.003 | 56615 | 408.1 |
| Total CollAve (4 peaks): | | | | 240.5 | | Total Col2Ave (4 peaks): | | | | 276.3 RPD = 14 |
| Corrected Ave (3 peaks): | | | | 188.8 | | Corrected Ave (3 peaks): | | | | 218.7 RPD = 15 |
| Aroclor-1248 | 1 | 8.406 | 0.001 | 59884 | 235.6 | 1 | 8.306 | 0.001 | 36680 | 235.8 |
| Aroclor-1248 | 2 | 8.581 | 0.001 | 76286 | 235.2 | 2 | 8.714 | 0.002 | 39330 | 234.9 |
| Aroclor-1248 | 3 | 9.000 | 0.001 | 148805 | 239.9 | 3 | 9.159 | 0.003 | 46988 | 229.7 |
| Aroclor-1248 | 4 | 9.295 | 0.001 | 73114 | 238.1 | 4 | 9.584 | 0.002 | 56615 | 223.8 |
| Total CollAve (4 peaks): | | | | 237.2 | | Total Col2Ave (4 peaks): | | | | 231.0 RPD = 3 |
| Corrected Ave (3 peaks): | | | | 236.3 | | Corrected Ave (3 peaks): | | | | 229.5 RPD = 3 |
| Aroclor-1254 | 1 | 9.295 | -0.004 | 73114 | 141.2 | 1 | 9.449 | 0.001 | 20314 | 81.4 |
| Aroclor-1254 | 2 | 9.378 | 0.000 | 36561 | 165.3 | 2 | 9.970 | 0.000 | 18678 | 92.6 |
| Aroclor-1254 | 3 | 9.672 | 0.003 | 30736 | 92.6 | 3 | 10.124 | 0.003 | 35321 | 80.2 |
| Aroclor-1254 | 4 | 9.813 | 0.004 | 53537 | 82.3 | 4 | 10.387 | 0.015 | 35188 | 79.9 |
| Aroclor-1254 | 5 | 10.192 | 0.015 | 40119 | 94.9 | 5 | 10.575 | 0.006 | 7386 | 30.1 |
| Total CollAve (5 peaks): | | | | 115.3 | | Total Col2Ave (5 peaks): | | | | 72.9 RPD = 45* |
| Corrected Ave (4 peaks): | | | | 102.7 | | Corrected Ave (4 peaks): | | | | 67.9 RPD = 41* |
| Aroclor-1260 | 1 | 11.054 | 0.010 | 1868 | 3.4 | 1 | 11.664 | 0.011 | 2055 | 5.7 |
| Aroclor-1260 | 2 | 11.366 | 0.005 | 1375 | 2.4 | 2 | 11.926 | 0.009 | 1303 | 1.4 |
| Aroclor-1260 | 3 | 11.745 | 0.010 | 2137 | 1.4 | 3 | 12.439 | 0.003 | 395 | 1.7 |
| Aroclor-1260 | 4 | 12.147 | 0.008 | 1650 | 2.1 | 4 | 12.507 | 0.005 | 890 | 1.5 |
| Aroclor-1260 | 5 | 12.255 | 0.011 | 558 | 1.7 | NS | --- | | | ---- |
| Total CollAve (5 peaks): | | | | 2.2 | | Total Col2Ave (4 peaks): | | | | 2.6 RPD = 15 |
| Corrected Ave (4 peaks): | | | | 1.9 | | Corrected Ave (3 peaks): | | | | 1.5 RPD = 22 |
| Aroclor-1262 | 1 | 10.837 | 0.005 | 12736 | 32.2 | 1 | 11.122 | -0.078 | 7136 | 14.5 |
| Aroclor-1262 | 2 | 12.255 | 0.010 | 558 | 0.9 | 2 | 11.664 | 0.011 | 2055 | 4.9 |
| Aroclor-1262 | 3 | 12.327 | 0.006 | 596 | 0.9 | 3 | 12.439 | 0.004 | 395 | 0.9 |
| Aroclor-1262 | 4 | 12.996 | 0.007 | 1113 | 1.8 | 4 | 12.507 | 0.003 | 890 | 1.2 |
| Total CollAve (4 peaks): | | | | 8.9 | | Total Col2Ave (4 peaks): | | | | 5.4 RPD = 50* |
| Corrected Ave (3 peaks): | | | | 1.2 | | Corrected Ave (3 peaks): | | | | 2.3 RPD = 65* |
| Aroclor-1268 | 1 | 12.255 | 0.010 | 558 | 0.3 | 1 | 12.439 | 0.005 | 395 | 0.3 |
| Aroclor-1268 | 2 | 12.327 | 0.009 | 596 | 0.4 | 2 | 12.507 | 0.005 | 890 | 0.7 |
| Aroclor-1268 | 3 | 12.706 | 0.007 | 1161 | 0.9 | 3 | 12.896 | 0.003 | 166 | 0.2 |
| Aroclor-1268 | 4 | 13.504 | 0.016 | 3330 | 0.8 | 4 | 13.717 | 0.009 | 469 | 0.1 |
| Total CollAve (4 peaks): | | | | 0.6 | | Total Col2Ave (4 peaks): | | | | 0.3 RPD = 57* |
| Corrected Ave (3 peaks): | | | | 0.5 | | Corrected Ave (3 peaks): | | | | 0.2 RPD = 83* |

Total PCB Area Col1 (5.909 - 13.792) = 1230760 Col1 Total PCB = 0.2 ppm*

Total PCB Area Col2 (5.787 - 14.020) = 742749 Col2 Total PCB = 0.2 ppm*

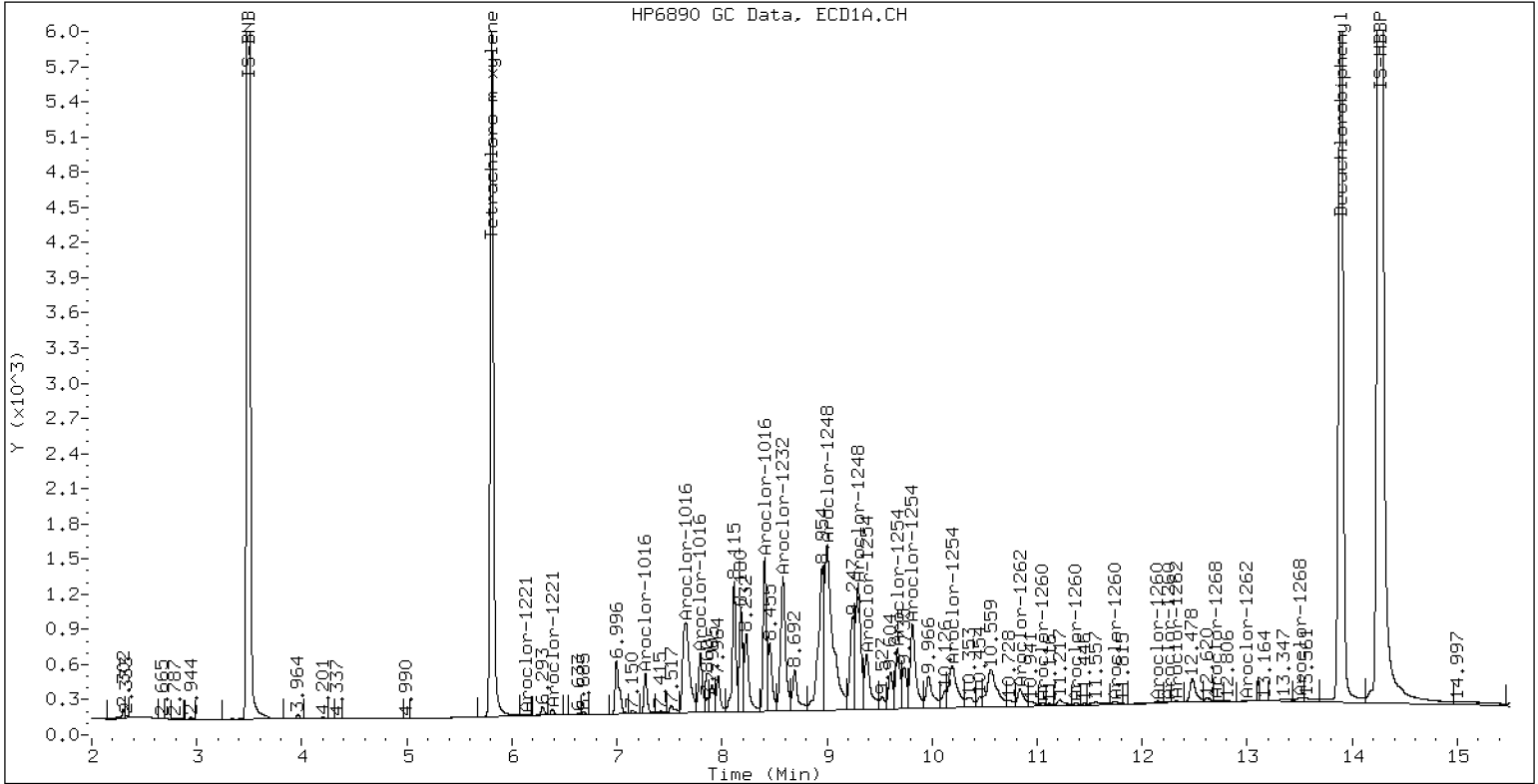
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 AR1248 SCV

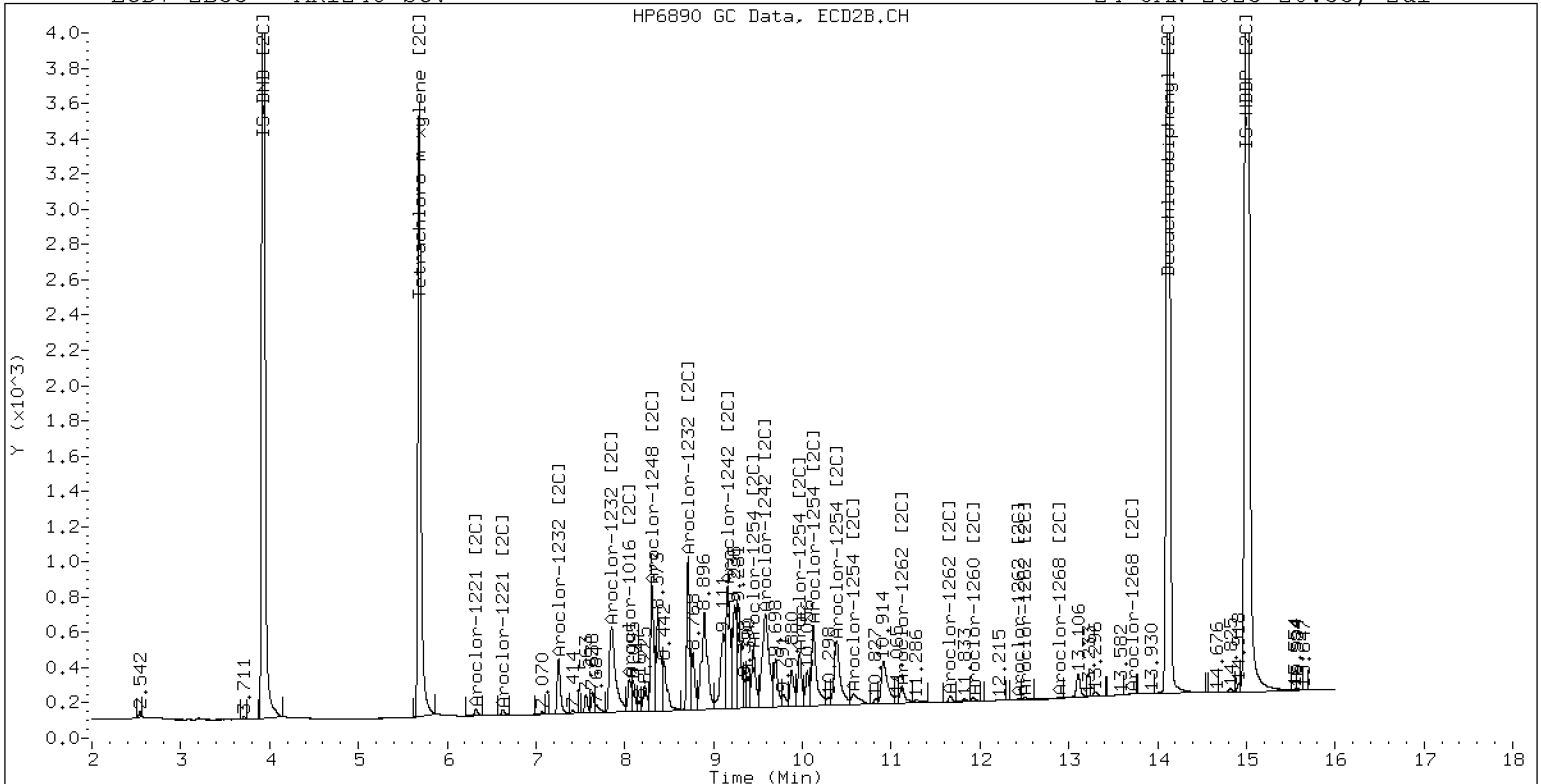
24-JAN-2023 20:33, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1248 SCV

24-JAN-2023 20:33, 2ul



ZB-35 Manual Integration: NO



SECOND-SOURCE CALIBRATION VERIFICATION
EPA 8082A

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Calibration: GA00061

Laboratory ID: SLA0281-SCV4

Sequence: SLA0281

Sequence Name: AR1254SCV4

Standard ID: K007658

| ANALYTE | EXPECTED (ug/L) | FOUND (ug/L) | % DRIFT | QC LIMIT |
|----------------------------|----------------------------|-------------------------|----------------|-----------------|
| Aroclor 1254 | 250.00 | 221 | -11.7 | 20.00 |
| Aroclor 1254 [2C] | 250.00 | 227 | -9.4 | 20.00 |
| Decachlorobiphenyl | 40.000 | 37.1 | -7.3 | 20.00 |
| Tetrachlorometaxylene | 40.000 | 36.7 | -8.3 | 20.00 |
| Decachlorobiphenyl [2C] | 40.000 | 39.5 | -1.1 | 20.00 |
| Tetrachlorometaxylene [2C] | 40.000 | 36.6 | -8.4 | 20.00 |

* Indicates values outside of QC limits
[2C] indicates second-column analyte.

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230124.b/01242327ECD7.D
Data file 2: /230124.b/230124.b/01242327ECD7.D
Method: \\target\share\chem4\ecd7.i\230124.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1254 SCV
Client ID:
Injection Date: 24-JAN-2023 20:54
Report Date: 01/25/2023 10:53
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

| ZB5 Col | | ZB35 Col | | | ZB5 | ZB35 | RPD | Compound/Flag | |
|---------|--------|----------|--------|--------|----------|--------|------|---------------|----------------------|
| RT | Shift | Response | RT | Shift | Response | on col | | | on col |
| 5.809 | -0.000 | 261398 | 5.686 | -0.001 | 169839 | 36.7 | 36.6 | 0.1 | Tetrachloro-m-xylene |
| 13.892 | 0.001 | 383983 | 14.121 | 0.001 | 323233 | 37.1 | 39.5 | 6.4 | Decachlorobiphenyl |

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1 | | | |
|--------------------|----------------|-------------|------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 503318 | 504424 | 0.2 |
| Hexabromobiphenyl | 647433 | 968338 | 49.6 |

| Column 2 | | | |
|--------------------|----------------|-------------|------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 336911 | 342969 | 1.8 |
| Hexabromobiphenyl | 382032 | 515045 | 34.8 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-JAN-2023
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | | ZB35 Col | | | | | |
|--------------------------|-------|--------|--------|--------|---|----------|--------|--------|-------|------------|--|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount | |
| Aroclor-1016 | 1 | 7.273 | 0.003 | 320 | 1.7 | 1 | 7.258 | 0.003 | 332 | 1.8 | |
| Aroclor-1016 | 2 | 7.658 | 0.008 | 991 | 1.6 | 2 | --- | | | 0.0 | |
| Aroclor-1016 | 3 | 7.795 | 0.007 | 662 | 2.3 | 3 | 8.097 | 0.047 | 515 | 3.1 | |
| Aroclor-1016 | 4 | 8.408 | 0.005 | 21378 | 116.3 | 4 | 8.307 | 0.002 | 20446 | 156.8 | |
| Total CollAve (4 peaks): | | | | 30.5 | Total Col2Ave (3 peaks): | | | | 53.9 | RPD = 55* | |
| Corrected Ave (3 peaks): | | | | 1.9 | Corrected Ave: < 3 Peaks | | | | | | |
| Aroclor-1221 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 | |
| Aroclor-1221 | 2 | --- | | | 0.0 | 2 | 6.325 | 0.026 | 1749 | 31.7 | |
| Aroclor-1221 | 3 | --- | | | 0.0 | 3 | 6.633 | 0.011 | 321 | 3.5 | |
| CollAve: <3 Quant Peaks | | | | | Col2Ave: <3 Quant Peaks | | | | | | |
| Aroclor-1232 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 | |
| Aroclor-1232 | 2 | --- | | | 0.0 | 2 | 7.258 | 0.001 | 332 | 3.9 | |
| Aroclor-1232 | 3 | 7.658 | -0.000 | 991 | 3.8 | 3 | --- | | | 0.0 | |
| Aroclor-1232 | 4 | 8.587 | 0.003 | 8887 | 79.1 | 4 | 8.715 | 0.001 | 14030 | 290.5 | |
| CollAve: <3 Quant Peaks | | | | | Col2Ave: <3 Quant Peaks | | | | | | |
| Aroclor-1242 | 1 | 7.273 | 0.002 | 320 | 2.1 | 1 | 7.258 | 0.002 | 332 | 2.2 | |
| Aroclor-1242 | 2 | 7.658 | 0.003 | 991 | 2.0 | 2 | --- | | | 0.0 | |
| Aroclor-1242 | 3 | 8.408 | 0.002 | 21378 | 142.3 | 3 | 9.164 | 0.004 | 26593 | 254.9 | |
| Aroclor-1242 | 4 | 8.587 | 0.006 | 8887 | 39.2 | 4 | 9.543 | -0.043 | 34385 | 248.7 | |
| Total CollAve (4 peaks): | | | | 46.4 | Total Col2Ave (3 peaks): | | | | 168.6 | RPD = 114* | |
| Corrected Ave (3 peaks): | | | | 14.4 | Corrected Ave: < 3 Peaks | | | | | | |
| Aroclor-1248 | 1 | 8.408 | 0.003 | 21378 | 84.7 | 1 | 8.307 | 0.001 | 20446 | 131.9 | |
| Aroclor-1248 | 2 | 8.587 | 0.007 | 8887 | 27.6 | 2 | 8.715 | 0.003 | 14030 | 84.1 | |
| Aroclor-1248 | 3 | 8.995 | -0.004 | 110289 | 179.1 | 3 | 9.164 | 0.007 | 26593 | 130.4 | |
| Aroclor-1248 | 4 | 9.300 | 0.007 | 113143 | 371.2 | 4 | 9.543 | -0.038 | 34385 | 136.4 | |
| Total CollAve (4 peaks): | | | | 165.7 | Total Col2Ave (4 peaks): | | | | 120.7 | RPD = 31 | |
| Corrected Ave (3 peaks): | | | | 97.2 | Corrected Ave (3 peaks): 115.5 RPD = 17 | | | | | | |
| Aroclor-1254 | 1 | 9.300 | 0.002 | 113143 | 220.1 | 1 | 9.449 | 0.001 | 56453 | 226.9 | |
| Aroclor-1254 | 2 | 9.379 | 0.001 | 49468 | 225.4 | 2 | 9.970 | 0.001 | 45325 | 225.4 | |
| Aroclor-1254 | 3 | 9.671 | 0.002 | 72811 | 221.0 | 3 | 10.122 | 0.002 | 97044 | 221.2 | |
| Aroclor-1254 | 4 | 9.811 | 0.002 | 140530 | 217.7 | 4 | 10.374 | 0.002 | 98778 | 225.2 | |
| Aroclor-1254 | 5 | 10.182 | 0.005 | 92254 | 219.8 | 5 | 10.570 | 0.001 | 57171 | 234.0 | |
| Total CollAve (5 peaks): | | | | 220.8 | Total Col2Ave (5 peaks): | | | | 226.5 | RPD = 3 | |
| Corrected Ave (4 peaks): | | | | 219.7 | Corrected Ave (4 peaks): 224.7 RPD = 2 | | | | | | |
| Aroclor-1260 | 1 | 11.045 | 0.002 | 8960 | 16.5 | 1 | 11.661 | 0.008 | 26985 | 72.6 | |
| Aroclor-1260 | 2 | 11.364 | 0.004 | 9237 | 16.5 | 2 | 11.923 | 0.006 | 19882 | 21.2 | |
| Aroclor-1260 | 3 | 11.741 | 0.007 | 21268 | 14.5 | 3 | 12.505 | 0.069 | 13190 | 56.3 | |
| Aroclor-1260 | 4 | 12.146 | 0.007 | 19041 | 25.1 | 4 | --- | | | 0.0 | |
| Aroclor-1260 | 5 | 12.321 | 0.077 | 1835 | 5.5 | NS | --- | | | --- | |
| Total CollAve (5 peaks): | | | | 15.6 | Total Col2Ave (3 peaks): | | | | 50.0 | RPD = 105* | |
| Corrected Ave (4 peaks): | | | | 13.3 | Corrected Ave: < 3 Peaks | | | | | | |
| Aroclor-1262 | 1 | 10.832 | 0.000 | 157590 | 402.4 | 1 | 11.119 | -0.081 | 92414 | 183.3 | |
| Aroclor-1262 | 2 | 12.321 | 0.075 | 1835 | 3.0 | 2 | 11.661 | 0.008 | 26985 | 63.0 | |
| Aroclor-1262 | 3 | --- | | | 0.0 | 3 | 12.505 | 0.071 | 13190 | 28.9 | |
| Aroclor-1262 | 4 | 12.995 | 0.006 | 843 | 1.4 | 4 | --- | | | 0.0 | |
| Total CollAve (3 peaks): | | | | 135.6 | Total Col2Ave (3 peaks): | | | | 91.7 | RPD = 39 | |
| Corrected Ave: < 3 Peaks | | | | | Corrected Ave: < 3 Peaks | | | | | | |
| Aroclor-1268 | 1 | 12.321 | 0.076 | 1835 | 1.1 | 1 | 12.505 | 0.072 | 13190 | 11.0 | |
| Aroclor-1268 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 | |
| Aroclor-1268 | 3 | 12.720 | 0.021 | 1314 | 1.0 | 3 | 12.891 | -0.002 | 169 | 0.2 | |
| Aroclor-1268 | 4 | 13.504 | 0.016 | 1169 | 0.3 | 4 | 13.706 | -0.002 | 1132 | 0.3 | |
| Total CollAve (3 peaks): | | | | 0.8 | Total Col2Ave (3 peaks): | | | | 3.8 | RPD = 130* | |
| Corrected Ave: < 3 Peaks | | | | | Corrected Ave: < 3 Peaks | | | | | | |

Total PCB Area Col1 (5.909 - 13.792) = 1507519 Col1 Total PCB = 0.3 ppm*

Total PCB Area Col2 (5.787 - 14.020) = 951047 Col2 Total PCB = 0.3 ppm*

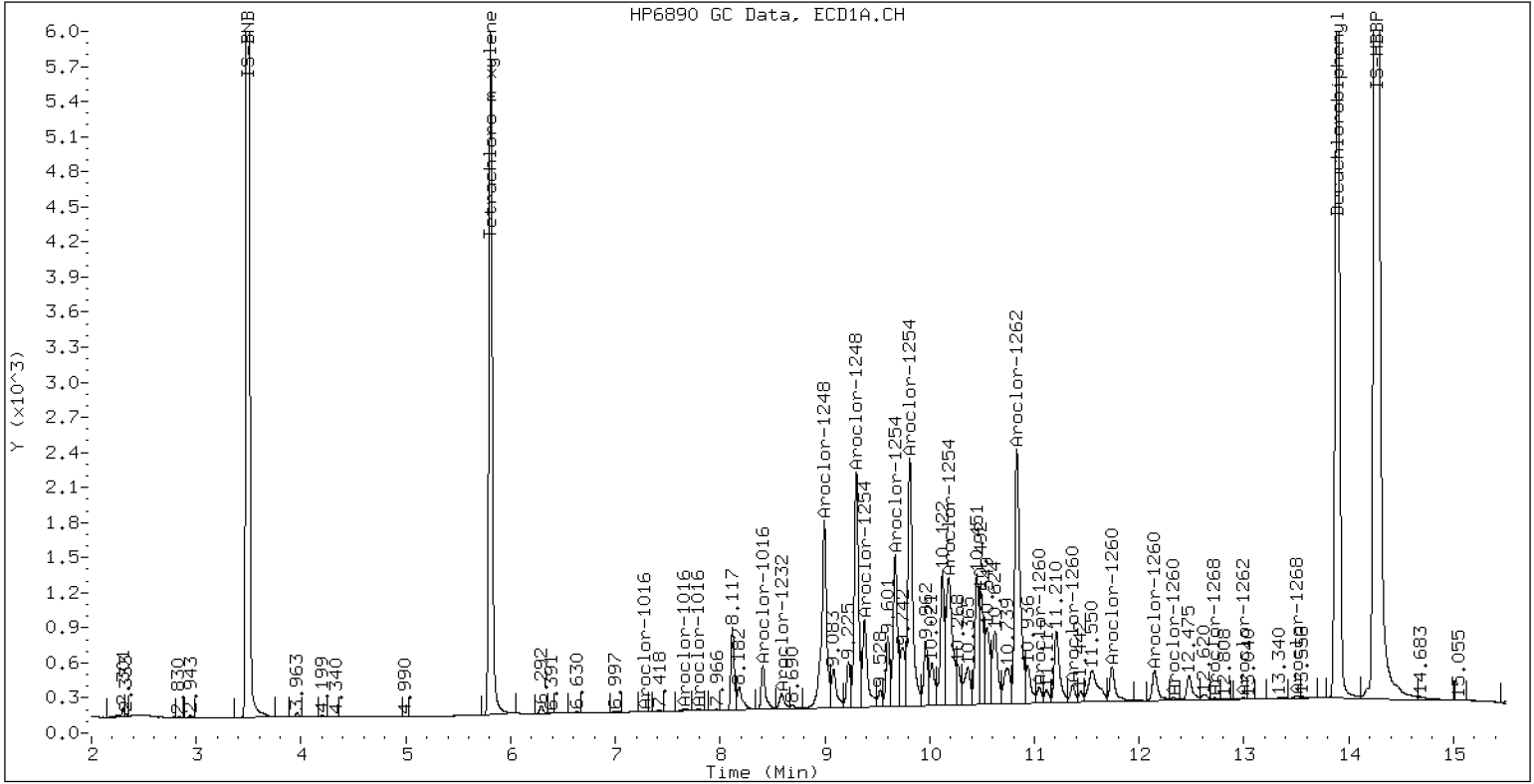
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 AR1254 SCV

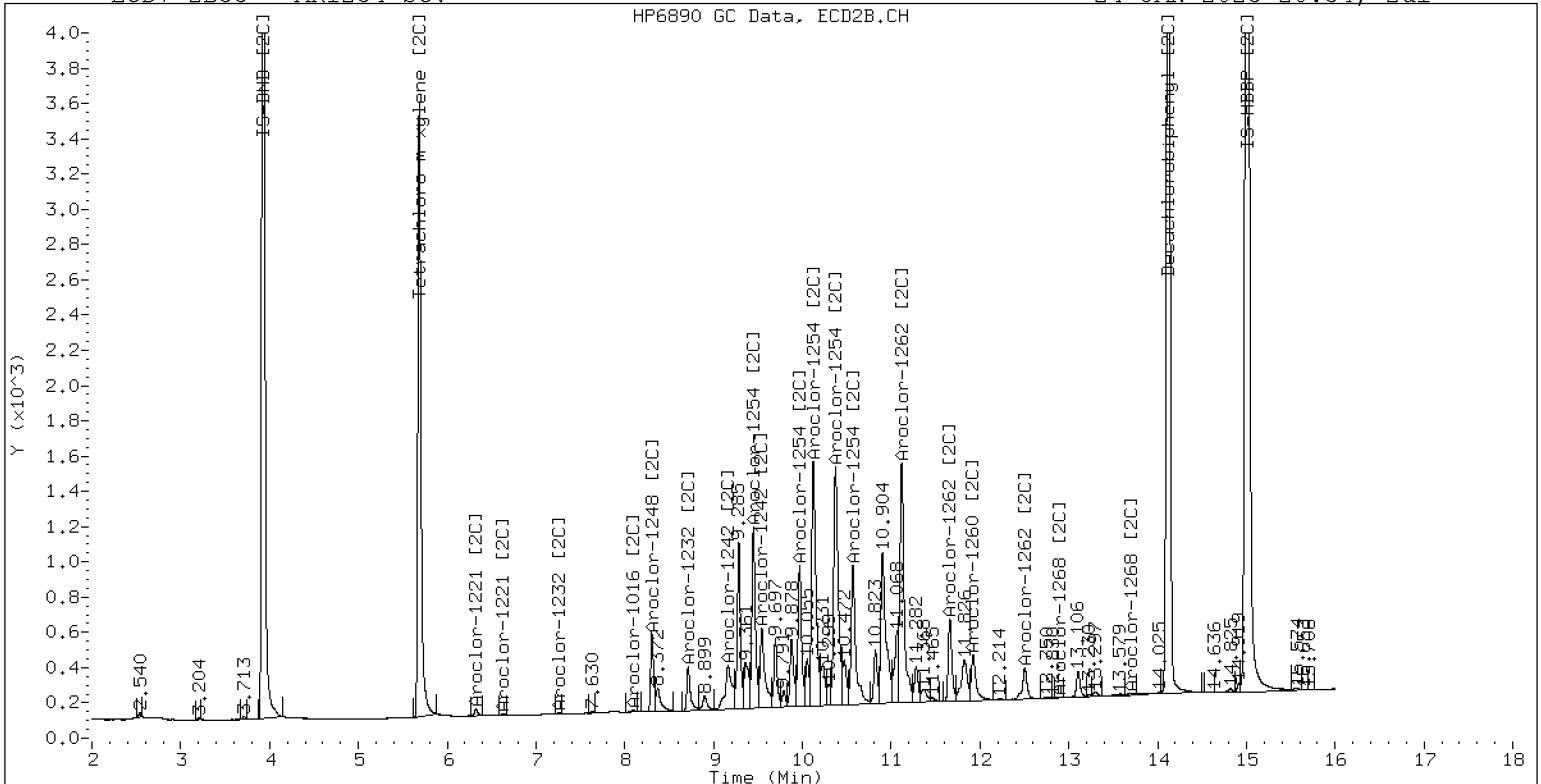
24-JAN-2023 20:54, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1254 SCV

24-JAN-2023 20:54, 2ul



ZB-35 Manual Integration: NO



SECOND-SOURCE CALIBRATION VERIFICATION
EPA 8082A

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Calibration: GA00061

Laboratory ID: SLA0281-SCV5

Sequence: SLA0281

Sequence Name: AR2162SCV5

Standard ID: K007659

| ANALYTE | EXPECTED (ug/L) | FOUND (ug/L) | % DRIFT | QC LIMIT |
|----------------------------|----------------------------|-------------------------|----------------|-----------------|
| Aroclor 1221 | 250.00 | 228 | -8.8 | 20.00 |
| Aroclor 1221 [2C] | 250.00 | 239 | -4.5 | 20.00 |
| Decachlorobiphenyl | 40.000 | 37.5 | -6.4 | 20.00 |
| Tetrachlorometaxylene | 40.000 | 37.3 | -6.8 | 20.00 |
| Decachlorobiphenyl [2C] | 40.000 | 39.5 | -1.3 | 20.00 |
| Tetrachlorometaxylene [2C] | 40.000 | 37.2 | -7.1 | 20.00 |

* Indicates values outside of QC limits

[2C] indicates second-column analyte.

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230124.b/01242328ECD7.D
Data file 2: /230124.b/230124.b/01242328ECD7.D
Method: \\target\share\chem4\ecd7.i\230124.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR2162 SCV
Client ID:
Injection Date: 24-JAN-2023 21:15
Report Date: 01/25/2023 10:53
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

| ZB5 Col | | ZB35 Col | | | ZB5 | ZB35 | RPD | Compound/Flag | |
|---------|--------|----------|--------|--------|----------|--------|------|---------------|----------------------|
| RT | Shift | Response | RT | Shift | Response | on col | | | on col |
| 5.809 | -0.000 | 265357 | 5.685 | -0.001 | 170984 | 37.3 | 37.2 | 0.3 | Tetrachloro-m-xylene |
| 13.891 | -0.001 | 397332 | 14.119 | -0.001 | 326981 | 37.5 | 39.5 | 5.3 | Decachlorobiphenyl |

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 503318 | 503473 | 0.0 |
| Hexabromobiphenyl | 647433 | 991997 | 53.2 |

| Standard Cpnd | Column 2 | | |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 336911 | 340361 | 1.0 |
| Hexabromobiphenyl | 382032 | 521975 | 36.6 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-JAN-2023
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | | ZB35 Col | | | | | |
|--------------------------|-------|--------|--------|--------|--------------------------|----------|--------|--------|--------|------------|--|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount | |
| Aroclor-1016 | 1 | 7.272 | 0.002 | 5326 | 28.5 | 1 | 7.257 | 0.002 | 6708 | 36.3 | |
| Aroclor-1016 | 2 | 7.664 | 0.013 | 11965 | 19.3 | 2 | 7.856 | 0.005 | 7233 | 17.9 | |
| Aroclor-1016 | 3 | 7.797 | 0.009 | 6015 | 21.1 | 3 | 8.058 | 0.008 | 2997 | 18.2 | |
| Aroclor-1016 | 4 | 8.410 | 0.006 | 3771 | 20.6 | 4 | 8.308 | 0.002 | 2065 | 16.0 | |
| Total CollAve (4 peaks): | | | | 22.4 | Total Col2Ave (4 peaks): | | | | 22.1 | RPD = 1 | |
| Corrected Ave (3 peaks): | | | | 20.3 | Corrected Ave (3 peaks): | | | | 17.3 | RPD = 16 | |
| | | | | | | | | | | | |
| Aroclor-1221 | 1 | 4.732 | -0.000 | 9097 | 244.5 | 1 | 4.959 | -0.000 | 6157 | 246.8 | |
| Aroclor-1221 | 2 | 6.133 | -0.000 | 16114 | 211.8 | 2 | 6.297 | -0.001 | 12807 | 234.2 | |
| Aroclor-1221 | 3 | 6.384 | 0.000 | 40299 | 228.1 | 3 | 6.622 | -0.000 | 21707 | 235.2 | |
| Total CollAve (3 peaks): | | | | 228.1 | Total Col2Ave (3 peaks): | | | | 238.7 | RPD = 5 | |
| Corrected Ave: < 3 Peaks | | | | | Corrected Ave: < 3 Peaks | | | | | | |
| | | | | | | | | | | | |
| Aroclor-1232 | 1 | 4.732 | -0.001 | 9097 | 391.6 | 1 | 4.959 | -0.001 | 6157 | 406.9 | |
| Aroclor-1232 | 2 | 6.133 | 0.000 | 16114 | 307.8 | 2 | 7.257 | 0.000 | 6708 | 79.2 | |
| Aroclor-1232 | 3 | 7.664 | 0.005 | 11965 | 45.7 | 3 | 7.856 | 0.001 | 7233 | 41.9 | |
| Aroclor-1232 | 4 | 8.589 | 0.004 | 2837 | 25.3 | 4 | 8.716 | 0.002 | 1869 | 39.0 | |
| Total CollAve (4 peaks): | | | | 192.6 | Total Col2Ave (4 peaks): | | | | 141.7 | RPD = 30 | |
| Corrected Ave (3 peaks): | | | | 126.3 | Corrected Ave (3 peaks): | | | | 53.4 | RPD = 81* | |
| | | | | | | | | | | | |
| Aroclor-1242 | 1 | 7.272 | 0.001 | 5326 | 34.5 | 1 | 7.257 | 0.001 | 6708 | 45.1 | |
| Aroclor-1242 | 2 | 7.664 | 0.008 | 11965 | 23.7 | 2 | 7.856 | 0.003 | 7233 | 21.9 | |
| Aroclor-1242 | 3 | 8.410 | 0.004 | 3771 | 25.2 | 3 | 9.169 | 0.009 | 1956 | 18.9 | |
| Aroclor-1242 | 4 | 8.589 | 0.007 | 2837 | 12.5 | 4 | 9.544 | -0.043 | 5978 | 43.6 | |
| Total CollAve (4 peaks): | | | | 24.0 | Total Col2Ave (4 peaks): | | | | 32.3 | RPD = 30 | |
| Corrected Ave (3 peaks): | | | | 20.5 | Corrected Ave (3 peaks): | | | | 28.1 | RPD = 31 | |
| | | | | | | | | | | | |
| Aroclor-1248 | 1 | 8.410 | 0.005 | 3771 | 15.0 | 1 | 8.308 | 0.002 | 2065 | 13.4 | |
| Aroclor-1248 | 2 | 8.589 | 0.008 | 2837 | 8.8 | 2 | 8.716 | 0.004 | 1869 | 11.3 | |
| Aroclor-1248 | 3 | 8.997 | -0.002 | 36022 | 58.6 | 3 | 9.169 | 0.012 | 1956 | 9.7 | |
| Aroclor-1248 | 4 | 9.305 | 0.011 | 30853 | 101.4 | 4 | 9.544 | -0.038 | 5978 | 23.9 | |
| Total CollAve (4 peaks): | | | | 46.0 | Total Col2Ave (4 peaks): | | | | 14.6 | RPD = 104* | |
| Corrected Ave (3 peaks): | | | | 27.5 | Corrected Ave (3 peaks): | | | | 11.5 | RPD = 82* | |
| | | | | | | | | | | | |
| Aroclor-1254 | 1 | 9.305 | 0.006 | 30853 | 60.1 | 1 | 9.451 | 0.003 | 17617 | 71.3 | |
| Aroclor-1254 | 2 | 9.376 | -0.002 | 5370 | 24.5 | 2 | 9.970 | 0.001 | 2849 | 14.3 | |
| Aroclor-1254 | 3 | 9.673 | 0.003 | 5543 | 16.9 | 3 | 10.146 | 0.026 | 88151 | 202.5 | |
| Aroclor-1254 | 4 | 9.810 | 0.002 | 14544 | 22.6 | 4 | 10.370 | -0.002 | 107074 | 245.9 | |
| Aroclor-1254 | 5 | 10.121 | -0.056 | 180016 | 429.7 | 5 | 10.567 | -0.002 | 141725 | 584.5 | |
| Total CollAve (5 peaks): | | | | 110.8 | Total Col2Ave (5 peaks): | | | | 223.7 | RPD = 68* | |
| Corrected Ave (4 peaks): | | | | 31.0 | Corrected Ave (4 peaks): | | | | 133.5 | RPD = 125* | |
| | | | | | | | | | | | |
| Aroclor-1260 | 1 | 11.044 | 0.001 | 310806 | 558.4 | 1 | 11.652 | -0.001 | 187682 | 498.4 | |
| Aroclor-1260 | 2 | 11.361 | 0.000 | 263161 | 460.0 | 2 | 11.917 | -0.000 | 450612 | 473.0 | |
| Aroclor-1260 | 3 | 11.735 | 0.000 | 629605 | 418.0 | 3 | 12.433 | -0.003 | 206042 | 867.7 | |
| Aroclor-1260 | 4 | 12.141 | 0.001 | 210012 | 269.9 | 4 | 12.502 | -0.000 | 326457 | 529.5 | |
| Aroclor-1260 | 5 | 12.244 | -0.000 | 268425 | 791.3 | NS | --- | | | ---- | |
| Total CollAve (5 peaks): | | | | 499.5 | Total Col2Ave (4 peaks): | | | | 592.1 | RPD = 17 | |
| Corrected Ave (4 peaks): | | | | 426.6 | Corrected Ave (3 peaks): | | | | 500.3 | RPD = 16 | |
| | | | | | | | | | | | |
| Aroclor-1262 | 1 | 10.828 | -0.005 | 171094 | 426.5 | 1 | 11.200 | 0.000 | 219731 | 430.1 | |
| Aroclor-1262 | 2 | 12.244 | -0.002 | 268425 | 423.9 | 2 | 11.652 | -0.001 | 187682 | 432.0 | |
| Aroclor-1262 | 3 | 12.319 | -0.002 | 291581 | 424.2 | 3 | 12.433 | -0.001 | 206042 | 445.4 | |
| Aroclor-1262 | 4 | 12.988 | -0.001 | 257735 | 411.5 | 4 | 12.502 | -0.002 | 326457 | 440.6 | |
| Total CollAve (4 peaks): | | | | 421.5 | Total Col2Ave (4 peaks): | | | | 437.0 | RPD = 4 | |
| Corrected Ave (3 peaks): | | | | 419.8 | Corrected Ave (3 peaks): | | | | 434.3 | RPD = 3 | |
| | | | | | | | | | | | |
| Aroclor-1268 | 1 | 12.244 | -0.001 | 268425 | 163.8 | 1 | 12.433 | -0.000 | 206042 | 169.0 | |
| Aroclor-1268 | 2 | 12.319 | 0.001 | 291581 | 178.4 | 2 | 12.502 | 0.000 | 326457 | 251.7 | |
| Aroclor-1268 | 3 | 12.725 | 0.026 | 108693 | 80.3 | 3 | 12.892 | -0.001 | 10062 | 9.3 | |
| Aroclor-1268 | 4 | 13.486 | -0.003 | 95646 | 23.8 | 4 | 13.710 | 0.001 | 59437 | 17.8 | |
| Total CollAve (4 peaks): | | | | 111.6 | Total Col2Ave (4 peaks): | | | | 112.0 | RPD = 0 | |

Corrected Ave (3 peaks): 89.3 Corrected Ave (3 peaks): 65.4 RPD = 31

Total PCB Area Col1 (5.909 - 13.792) = 4409992 Col1 Total PCB = 0.8 ppm*

Total PCB Area Col2 (5.787 - 14.020) = 2874073 Col2 Total PCB = 0.8 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.



SECOND-SOURCE CALIBRATION VERIFICATION
EPA 8082A

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Calibration: GA00061

Laboratory ID: SLA0281-SCV6

Sequence: SLA0281

Sequence Name: AR3268SCV6

Standard ID: K007660

| ANALYTE | EXPECTED (ug/L) | FOUND (ug/L) | % DRIFT | QC LIMIT |
|----------------------------|----------------------------|-------------------------|----------------|-----------------|
| Aroclor 1232 | 250.00 | 216 | -13.7 | 20.00 |
| Aroclor 1232 [2C] | 250.00 | 239 | -4.5 | 20.00 |
| Decachlorobiphenyl | 40.000 | 54.6 | 36.5 | 20.00 |
| Tetrachlorometaxylene | 40.000 | 36.4 | -9.1 | 20.00 |
| Decachlorobiphenyl [2C] | 40.000 | 57.9 | 44.8 | 20.00 |
| Tetrachlorometaxylene [2C] | 40.000 | 36.3 | -9.2 | 20.00 |

* Indicates values outside of QC limits
[2C] indicates second-column analyte.

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230124.b/01242329ECD7.D
Data file 2: /230124.b/230124.b/01242329ECD7.D
Method: \\target\share\chem4\ecd7.i\230124.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR3268 SCV
Client ID:
Injection Date: 24-JAN-2023 21:36
Report Date: 01/25/2023 10:53
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

| RT | ZB5 Col Shift | Response | RT | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag |
|--------|------------------|----------|--------|-------------------|----------|---------------|----------------|-----|----------------------|
| 5.810 | 0.001 | 250455 | 5.687 | 0.000 | 162795 | 36.4 | 36.3 | 0.2 | Tetrachloro-m-xylene |
| 13.892 | 0.000 | 551946 | 14.120 | 0.000 | 461901 | 54.6 | 57.9 | 5.9 | Decachlorobiphenyl |

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 503318 | 487061 | -3.2 |
| Hexabromobiphenyl | 647433 | 944934 | 46.0 |

| Standard Cpnd | Column 2 | | |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 336911 | 331721 | -1.5 |
| Hexabromobiphenyl | 382032 | 502401 | 31.5 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-JAN-2023
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | ZB35 Col | | | | | |
|--------------------------|-------|--------|--------|--------|----------|--------------------------|--------|--------|--------|------------------|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount |
| Aroclor-1016 | 1 | 7.272 | 0.002 | 19363 | 107.0 | 1 | 7.256 | 0.001 | 19791 | 110.0 |
| Aroclor-1016 | 2 | 7.659 | 0.009 | 58630 | 97.8 | 2 | 7.856 | 0.005 | 40139 | 101.8 |
| Aroclor-1016 | 3 | 7.794 | 0.006 | 28286 | 102.5 | 3 | 8.055 | 0.005 | 17412 | 108.2 |
| Aroclor-1016 | 4 | 8.408 | 0.004 | 17373 | 97.9 | 4 | 8.308 | 0.003 | 11962 | 94.8 |
| Total CollAve (4 peaks): | | | | 101.3 | | Total Col2Ave (4 peaks): | | | | 103.7 RPD = 2 |
| Corrected Ave (3 peaks): | | | | 99.4 | | Corrected Ave (3 peaks): | | | | 101.6 RPD = 2 |
| Aroclor-1221 | 1 | 4.735 | 0.002 | 5022 | 139.5 | 1 | 4.961 | 0.002 | 3409 | 140.2 |
| Aroclor-1221 | 2 | 6.134 | 0.001 | 8987 | 122.1 | 2 | 6.299 | 0.001 | 7677 | 144.1 |
| Aroclor-1221 | 3 | 6.385 | 0.001 | 29368 | 171.8 | 3 | 6.624 | 0.001 | 16198 | 180.1 |
| Total CollAve (3 peaks): | | | | 144.5 | | Total Col2Ave (3 peaks): | | | | 154.8 RPD = 7 |
| Corrected Ave: < 3 Peaks | | | | | | Corrected Ave: < 3 Peaks | | | | |
| Aroclor-1232 | 1 | 4.735 | 0.002 | 5022 | 223.5 | 1 | 4.961 | 0.002 | 3409 | 231.1 |
| Aroclor-1232 | 2 | 6.134 | 0.001 | 8987 | 177.4 | 2 | 7.256 | -0.001 | 19791 | 239.8 |
| Aroclor-1232 | 3 | 7.659 | 0.001 | 58630 | 231.5 | 3 | 7.856 | 0.001 | 40139 | 238.8 |
| Aroclor-1232 | 4 | 8.585 | 0.000 | 24991 | 230.5 | 4 | 8.715 | 0.001 | 11476 | 245.7 |
| Total CollAve (4 peaks): | | | | 215.7 | | Total Col2Ave (4 peaks): | | | | 238.8 RPD = 10 |
| Corrected Ave (3 peaks): | | | | 210.5 | | Corrected Ave (3 peaks): | | | | 236.6 RPD = 12 |
| Aroclor-1242 | 1 | 7.272 | 0.001 | 19363 | 129.8 | 1 | 7.256 | 0.000 | 19791 | 136.4 |
| Aroclor-1242 | 2 | 7.659 | 0.004 | 58630 | 120.1 | 2 | 7.856 | 0.002 | 40139 | 124.6 |
| Aroclor-1242 | 3 | 8.408 | 0.001 | 17373 | 119.8 | 3 | 9.166 | 0.006 | 11813 | 117.1 |
| Aroclor-1242 | 4 | 8.585 | 0.003 | 24991 | 114.1 | 4 | 9.595 | 0.009 | 16549 | 123.7 |
| Total CollAve (4 peaks): | | | | 121.0 | | Total Col2Ave (4 peaks): | | | | 125.4 RPD = 4 |
| Corrected Ave (3 peaks): | | | | 118.0 | | Corrected Ave (3 peaks): | | | | 121.8 RPD = 3 |
| Aroclor-1248 | 1 | 8.408 | 0.002 | 17373 | 71.3 | 1 | 8.308 | 0.003 | 11962 | 79.8 |
| Aroclor-1248 | 2 | 8.585 | 0.005 | 24991 | 80.4 | 2 | 8.715 | 0.003 | 11476 | 71.1 |
| Aroclor-1248 | 3 | 9.001 | 0.002 | 67631 | 113.8 | 3 | 9.166 | 0.009 | 11813 | 59.9 |
| Aroclor-1248 | 4 | 9.293 | -0.001 | 30983 | 105.3 | 4 | 9.595 | 0.014 | 16549 | 67.9 |
| Total CollAve (4 peaks): | | | | 92.7 | | Total Col2Ave (4 peaks): | | | | 69.7 RPD = 28 |
| Corrected Ave (3 peaks): | | | | 85.7 | | Corrected Ave (3 peaks): | | | | 66.3 RPD = 26 |
| Aroclor-1254 | 1 | 9.293 | -0.006 | 30983 | 62.4 | 1 | 9.451 | 0.003 | 3749 | 15.6 |
| Aroclor-1254 | 2 | 9.381 | 0.003 | 9071 | 42.8 | 2 | 9.974 | 0.005 | 2452 | 12.6 |
| Aroclor-1254 | 3 | 9.678 | 0.009 | 5199 | 16.3 | 3 | 10.131 | 0.010 | 4718 | 11.1 |
| Aroclor-1254 | 4 | 9.820 | 0.012 | 8864 | 14.2 | 4 | 10.389 | 0.018 | 4224 | 10.0 |
| Aroclor-1254 | 5 | 10.195 | 0.018 | 8085 | 19.9 | 5 | 10.573 | 0.004 | 1573 | 6.7 |
| Total CollAve (5 peaks): | | | | 31.1 | | Total Col2Ave (5 peaks): | | | | 11.2 RPD = 94* |
| Corrected Ave (4 peaks): | | | | 23.3 | | Corrected Ave (4 peaks): | | | | 10.1 RPD = 79* |
| Aroclor-1260 | 1 | 11.050 | 0.006 | 66852 | 126.1 | 1 | 11.647 | -0.006 | 57235 | 157.9 |
| Aroclor-1260 | 2 | 11.366 | 0.006 | 6269 | 11.5 | 2 | 11.919 | 0.002 | 25368 | 27.7 |
| Aroclor-1260 | 3 | 11.741 | 0.007 | 41446 | 28.9 | 3 | 12.434 | -0.002 | 262014 | 1146.4 |
| Aroclor-1260 | 4 | 12.052 | -0.088 | 2691 | 3.6 | 4 | 12.502 | -0.000 | 277060 | 466.9 |
| Aroclor-1260 | 5 | 12.245 | 0.002 | 349286 | 1080.9 | NS | --- | | | ---- |
| Total CollAve (5 peaks): | | | | 250.2 | | Total Col2Ave (4 peaks): | | | | 449.7 RPD = 57* |
| Corrected Ave (4 peaks): | | | | 42.5 | | Corrected Ave (3 peaks): | | | | 217.5 RPD = 135* |
| Aroclor-1262 | 1 | 10.838 | 0.006 | 4520 | 11.8 | 1 | 11.203 | 0.003 | 40576 | 82.5 |
| Aroclor-1262 | 2 | 12.245 | -0.000 | 349286 | 579.1 | 2 | 11.647 | -0.006 | 57235 | 136.9 |
| Aroclor-1262 | 3 | 12.318 | -0.002 | 349715 | 534.1 | 3 | 12.434 | -0.001 | 262014 | 588.4 |
| Aroclor-1262 | 4 | 12.988 | -0.001 | 141905 | 237.8 | 4 | 12.502 | -0.002 | 277060 | 388.5 |
| Total CollAve (4 peaks): | | | | 340.7 | | Total Col2Ave (4 peaks): | | | | 299.1 RPD = 13 |
| Corrected Ave (3 peaks): | | | | 261.2 | | Corrected Ave (3 peaks): | | | | 202.6 RPD = 25 |
| Aroclor-1268 | 1 | 12.245 | 0.001 | 349286 | 223.8 | 1 | 12.434 | 0.000 | 262014 | 223.3 |
| Aroclor-1268 | 2 | 12.318 | 0.000 | 349715 | 224.6 | 2 | 12.502 | 0.000 | 277060 | 221.9 |
| Aroclor-1268 | 3 | 12.699 | 0.000 | 289328 | 224.3 | 3 | 12.893 | -0.000 | 208928 | 201.0 |
| Aroclor-1268 | 4 | 13.490 | 0.001 | 849299 | 222.1 | 4 | 13.710 | 0.002 | 725831 | 226.1 |
| Total CollAve (4 peaks): | | | | 223.7 | | Total Col2Ave (4 peaks): | | | | 218.1 RPD = 3 |

Corrected Ave (3 peaks): 223.4 Corrected Ave (3 peaks): 215.4 RPD = 4

Total PCB Area Col1 (5.909 - 13.792) = 2866092 Col1 Total PCB = 0.5 ppm*
Total PCB Area Col2 (5.787 - 14.020) = 2084481 Col2 Total PCB = 0.6 ppm*

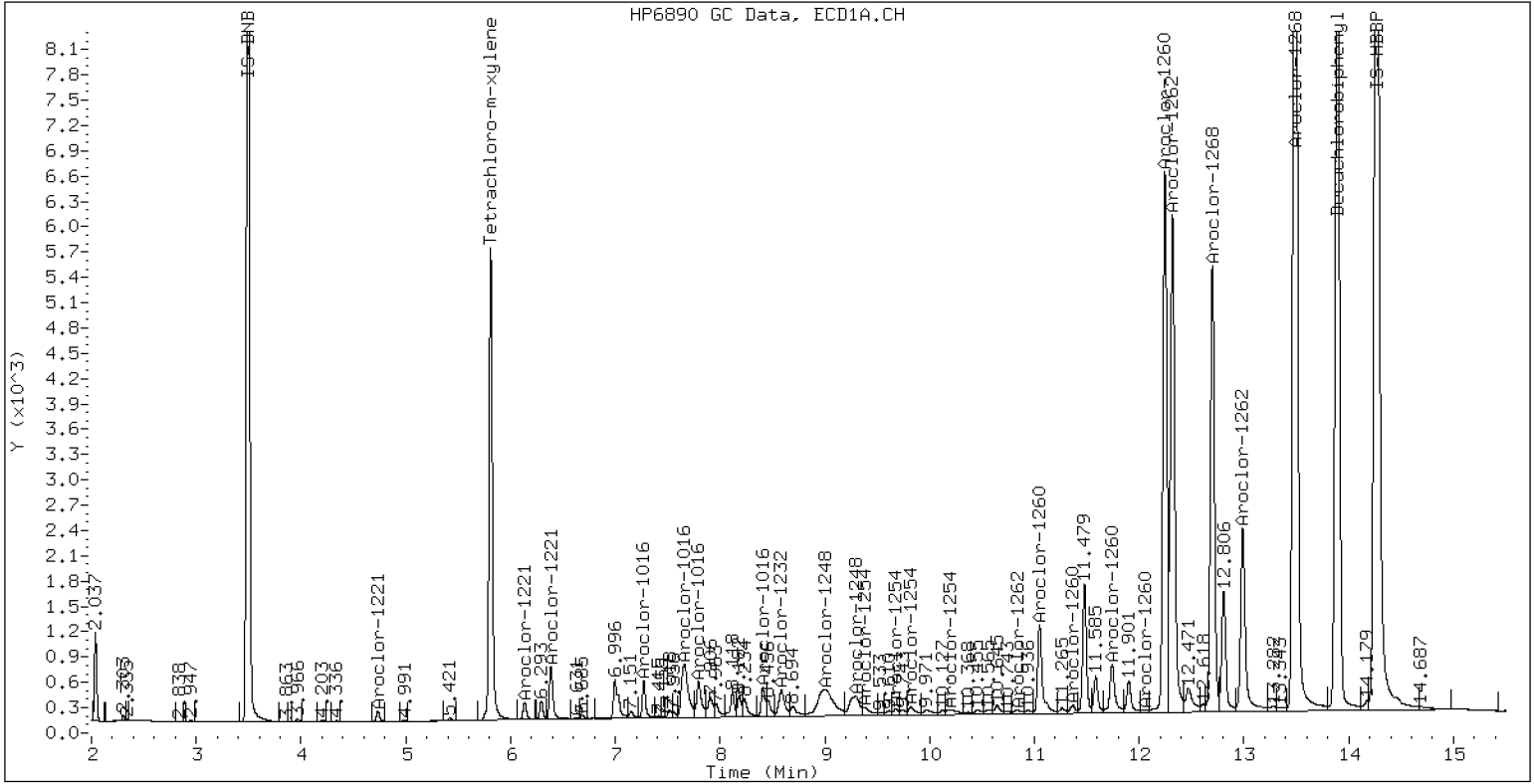
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 AR3268 SCV

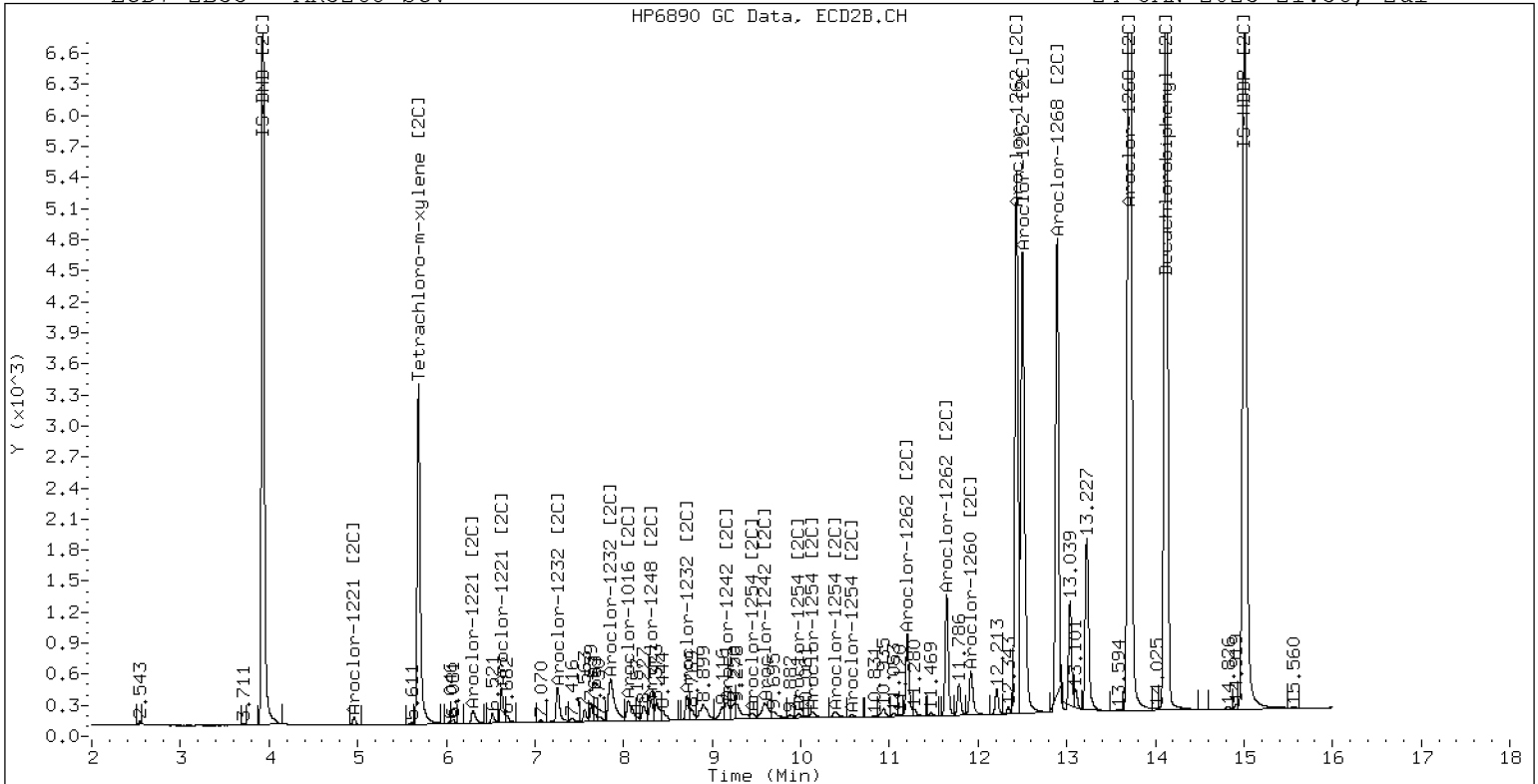
24-JAN-2023 21:36, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR3268 SCV

24-JAN-2023 21:36, 2ul



ZB-35 Manual Integration: NO



INITIAL CALIBRATION CHECK
EPA 8082A

| | | | |
|----------------|----------------------------------|-------------------|------------------------|
| Laboratory: | <u>Analytical Resources, LLC</u> | SDG: | <u>23A0180</u> |
| Client: | <u>Anchor OEA, LLC</u> | Project: | <u>AOC5 MR Phase 1</u> |
| Instrument ID: | <u>ECD7</u> | Calibration: | <u>GA00061</u> |
| Lab File ID: | <u>02042302ECD7.D</u> | Calibration Date: | <u>01/24/2023</u> |
| Sequence: | <u>SLB0084</u> | Injection Date: | <u>02/04/23</u> |
| Lab Sample ID: | <u>SLB0084-ICV1</u> | Injection Time: | <u>16:16</u> |
| Sequence Name: | <u>AR1254ICV1</u> | | |

| COMPOUND | TYPE | CONC. (ug/L) | | RESPONSE FACTOR | | | % DRIFT/DIFF | |
|----------------------------|------|--------------|------|-----------------|-----------|-----|--------------|-------|
| | | STD | ICV | ICAL | ICV | MIN | ICV | LIMIT |
| Aroclor 1254 | A | 250.00 | 231 | 0.0675033 | 0.0630454 | | -7.8 | +/-20 |
| Aroclor-1254 (1) | A | 250.00 | 219 | 0.0815329 | 0.0714839 | | | |
| Aroclor-1254 (2) | A | 250.00 | 218 | 0.0348121 | 0.0304263 | | | |
| Aroclor-1254 (3) | A | 250.00 | 228 | 0.0522405 | 0.0476952 | | | |
| Aroclor-1254 (4) | A | 250.00 | 249 | 0.1023658 | 0.1019927 | | | |
| Aroclor-1254 (5) | A | 250.00 | 239 | 0.0665652 | 0.0636292 | | | |
| Aroclor 1254 [2C] | A | 250.00 | 233 | 0.0733219 | 0.0687932 | | -6.7 | +/-20 |
| Aroclor-1254 (1) [2C] | A | 250.00 | 239 | 0.0580388 | 0.0554202 | | | |
| Aroclor-1254 (2) [2C] | A | 250.00 | 236 | 0.0469118 | 0.0442965 | | | |
| Aroclor-1254 (3) [2C] | A | 250.00 | 226 | 0.1023304 | 0.0927265 | | | |
| Aroclor-1254 (4) [2C] | A | 250.00 | 251 | 0.1023323 | 0.1026410 | | | |
| Aroclor-1254 (5) [2C] | A | 250.00 | 214 | 0.0569963 | 0.0488819 | | | |
| Decachlorobiphenyl | A | 40.000 | 40.3 | 0.8555994 | 0.8628475 | | 0.8 | +/-20 |
| Tetrachlorometaxylene | A | 40.000 | 40.0 | 1.1307870 | 1.1304120 | | 0.0 | +/-20 |
| Decachlorobiphenyl [2C] | A | 40.000 | 39.2 | 1.2696430 | 1.2445570 | | -2.0 | +/-20 |
| Tetrachlorometaxylene [2C] | A | 40.000 | 39.6 | 1.0814980 | 1.0716130 | | -1.0 | +/-20 |

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230204.b/02042302ECD7.D
Data file 2: /230204.b/230204.b/02042302ECD7.D
Method: \\target\share\chem4\ecd7.i\230204.b\PCB.m
Compound Sublist: AR1254.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1254ICV1
Client ID:
Injection Date: 04-FEB-2023 16:16
Report Date: 02/06/2023 16:43
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

| RT | ZB5 Col Shift | Response | RT | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag |
|--------|---------------|----------|--------|----------------|----------|------------|-------------|-----|----------------------|
| 5.807 | 0.001 | 251888 | 5.683 | -0.001 | 190438 | 40.0 | 39.6 | 0.9 | Tetrachloro-m-xylene |
| 13.891 | 0.003 | 260504 | 14.116 | 0.001 | 262075 | 40.3 | 39.2 | 2.8 | Decachlorobiphenyl |

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1 | | | |
|--------------------|----------------|-------------|-------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 503318 | 445657 | -11.5 |
| Hexabromobiphenyl | 647433 | 603824 | -6.7 |
| Column 2 | | | |
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 336911 | 355423 | 5.5 |
| Hexabromobiphenyl | 382032 | 421154 | 10.2 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-JAN-2023
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | ZB35 Col | | | | | | |
|--------------------------|-------|--------|--------|--------|----------|--------------------------|--------|-------|--------|--------|---------|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount | |
| Aroclor-1254 | 1 | 9.294 | 0.001 | 99554 | 219.2 | 1 | 9.442 | 0.000 | 61555 | 238.7 | |
| Aroclor-1254 | 2 | 9.369 | -0.000 | 42374 | 218.5 | 2 | 9.962 | 0.000 | 49200 | 236.1 | |
| Aroclor-1254 | 3 | 9.661 | -0.000 | 66424 | 228.2 | 3 | 10.113 | 0.000 | 102991 | 226.5 | |
| Aroclor-1254 | 4 | 9.798 | -0.001 | 142043 | 249.1 | 4 | 10.362 | 0.000 | 114003 | 250.8 | |
| Aroclor-1254 | 5 | 10.155 | -0.002 | 88615 | 239.0 | 5 | 10.561 | 0.000 | 54293 | 214.4 | |
| Total CollAve (5 peaks): | | | | 230.8 | | Total Col2Ave (5 peaks): | | | | 233.3 | RPD = 1 |
| Corrected Ave (4 peaks): | | | | 226.2 | | Corrected Ave (4 peaks): | | | | 228.9 | RPD = 1 |
| CalAmt %D: | | | | -7.7 | | CalAmt %D: | | | | -6.7 | |

Total PCB Area Col1 (5.906 - 13.788) = 1448009 Col1 Total PCB = 0.3 ppm*

Total PCB Area Col2 (5.784 - 14.016) = 1039351 Col2 Total PCB = 0.3 ppm*

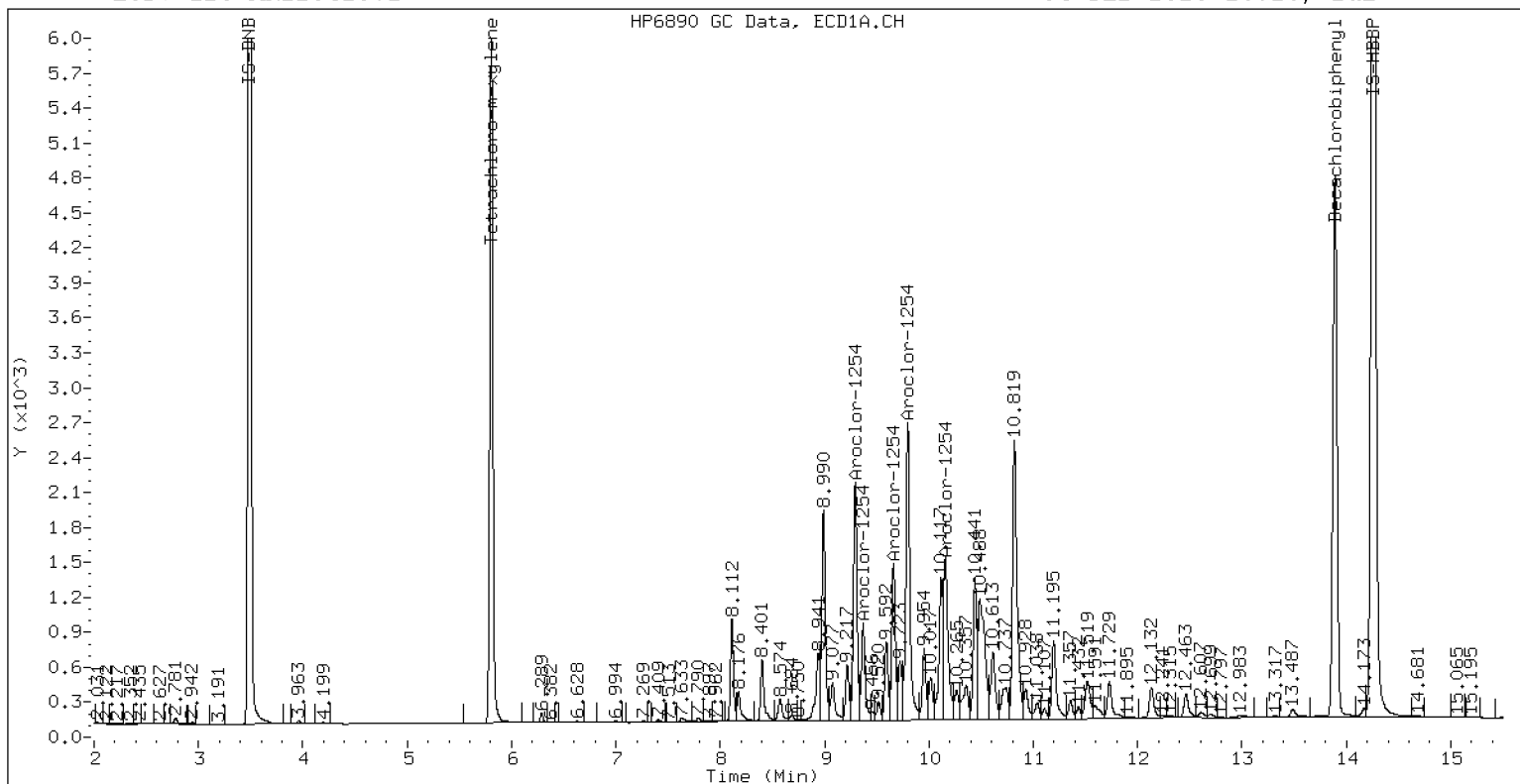
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 AR1254ICV1

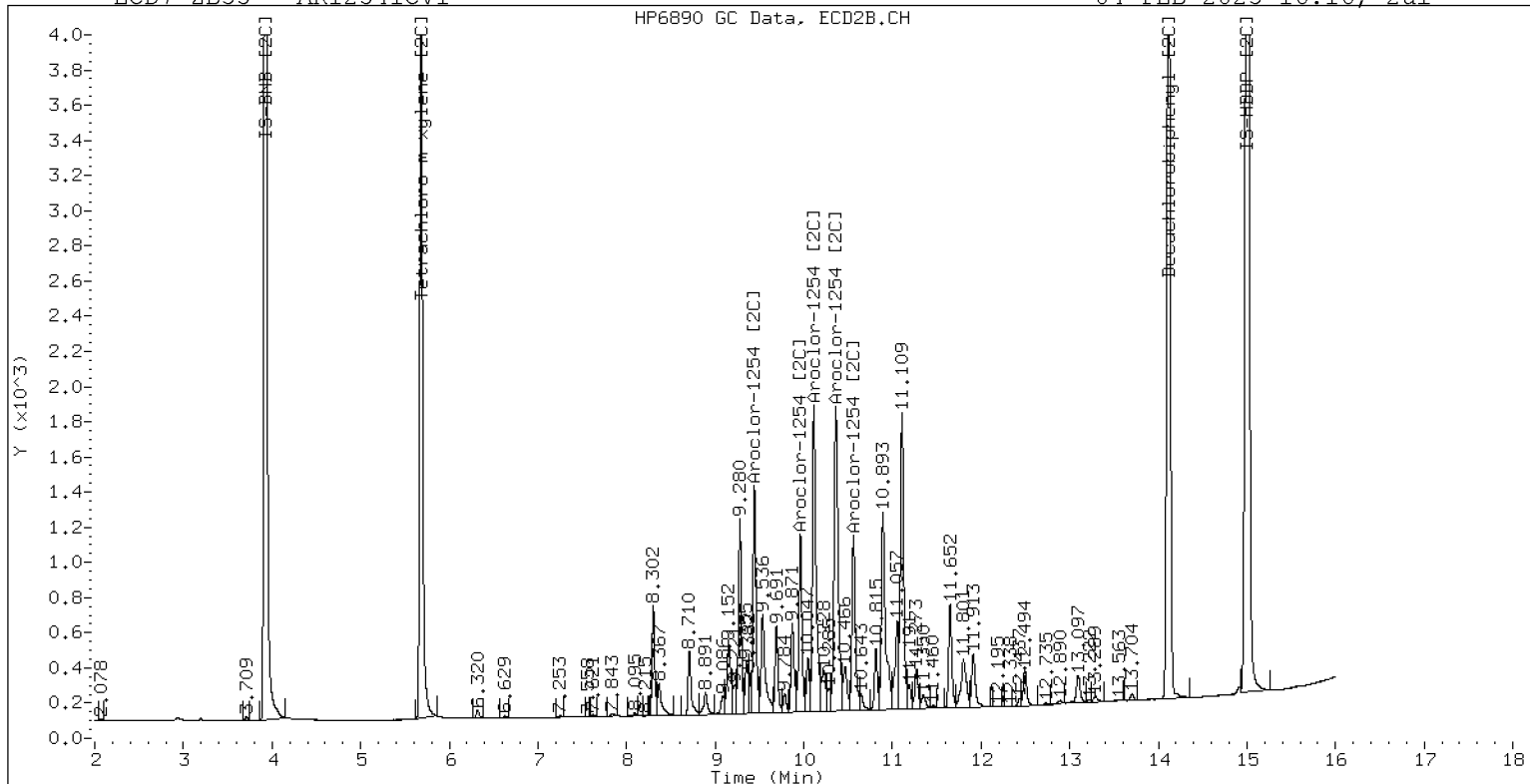
04-FEB-2023 16:16, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1254ICV1

04-FEB-2023 16:16, 2ul



ZB-35 Manual Integration: NO



INITIAL CALIBRATION CHECK
EPA 8082A

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: ECD7

Calibration: GA00061

Lab File ID: 02042303ECD7.D

Calibration Date: 01/24/2023

Sequence: SLB0084

Injection Date: 02/04/23

Lab Sample ID: SLB0084-ICV2

Injection Time: 16:37

Sequence Name: AR1660ICV2

| COMPOUND | TYPE | CONC. (ug/L) | | RESPONSE FACTOR | | | % DRIFT/DIFF | |
|----------------------------|------|--------------|------|-----------------|-----------|-----|--------------|-------|
| | | STD | ICV | ICAL | ICV | MIN | ICV | LIMIT |
| Aroclor 1016 | A | 250.00 | 261 | 0.0506755 | 0.0528986 | | 4.2 | +/-20 |
| Aroclor-1016 (1) | A | 250.00 | 263 | 0.0297277 | 0.0312529 | | 5.2 | |
| Aroclor-1016 (2) | A | 250.00 | 267 | 0.0985017 | 0.1050799 | | 6.8 | |
| Aroclor-1016 (3) | A | 250.00 | 241 | 0.0453193 | 0.0436670 | | -3.6 | |
| Aroclor-1016 (4) | A | 250.00 | 271 | 0.0291533 | 0.0315946 | | 8.4 | |
| Aroclor 1016 [2C] | A | 250.00 | 261 | 0.0519244 | 0.0541790 | | 4.5 | +/-20 |
| Aroclor-1016 (1) [2C] | A | 250.00 | 260 | 0.0433907 | 0.0452006 | | 4.0 | |
| Aroclor-1016 (2) [2C] | A | 250.00 | 259 | 0.0950862 | 0.0983983 | | 3.6 | |
| Aroclor-1016 (3) [2C] | A | 250.00 | 269 | 0.0388014 | 0.0417856 | | 7.6 | |
| Aroclor-1016 (4) [2C] | A | 250.00 | 257 | 0.0304194 | 0.0313314 | | 2.8 | |
| Aroclor 1260 | A | 250.00 | 231 | 0.0605224 | 0.0562359 | | -7.7 | +/-20 |
| Aroclor-1260 (1) | A | 250.00 | 239 | 0.0448870 | 0.0429935 | | -4.4 | |
| Aroclor-1260 (2) | A | 250.00 | 240 | 0.0461412 | 0.0443716 | | -4.0 | |
| Aroclor-1260 (3) | A | 250.00 | 232 | 0.1214672 | 0.1128933 | | -7.2 | |
| Aroclor-1260 (4) | A | 250.00 | 229 | 0.0627593 | 0.0575025 | | -8.4 | |
| Aroclor-1260 (5) | A | 250.00 | 214 | 0.0273573 | 0.0234187 | | -14.4 | |
| Aroclor 1260 [2C] | A | 250.00 | 247 | 0.0836545 | 0.0812893 | | -1.1 | +/-20 |
| Aroclor-1260 (1) [2C] | A | 250.00 | 252 | 0.0577136 | 0.0582728 | | 0.8 | |
| Aroclor-1260 (2) [2C] | A | 250.00 | 236 | 0.1460113 | 0.1381231 | | -5.6 | |
| Aroclor-1260 (3) [2C] | A | 250.00 | 261 | 0.0363944 | 0.0379972 | | 4.4 | |
| Aroclor-1260 (4) [2C] | A | 250.00 | 240 | 0.0944986 | 0.0907642 | | -4.0 | |
| Decachlorobiphenyl | A | 40.000 | 39.3 | 0.8555994 | 0.8415802 | | -1.8 | +/-20 |
| Tetrachlorometaxylene | A | 40.000 | 43.1 | 1.1307870 | 1.2192910 | | 7.8 | +/-20 |
| Decachlorobiphenyl [2C] | A | 40.000 | 41.5 | 1.2696430 | 1.3186020 | | 3.8 | +/-20 |
| Tetrachlorometaxylene [2C] | A | 40.000 | 41.9 | 1.0814980 | 1.1334590 | | 4.8 | +/-20 |

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230204.b/02042303ECD7.D
Data file 2: /230204.b/230204.b/02042303ECD7.D
Method: \\target\share\chem4\ecd7.i\230204.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660ICV2
Client ID:
Injection Date: 04-FEB-2023 16:37
Report Date: 02/06/2023 16:43
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

| RT | ZB5 Col Shift | Response | RT | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag |
|--------|---------------|----------|--------|----------------|----------|------------|-------------|-----|----------------------|
| 5.807 | 0.001 | 258102 | 5.683 | -0.001 | 193460 | 43.1 | 41.9 | 2.8 | Tetrachloro-m-xylene |
| 13.889 | 0.000 | 268786 | 14.116 | 0.000 | 274173 | 39.3 | 41.5 | 5.4 | Decachlorobiphenyl |

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | |
|--------------------|----------------|-------------|-------|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 503318 | 423364 | -15.9 |
| Hexabromobiphenyl | 647433 | 638765 | -1.3 |

| Standard Cpnd | Column 2 | | |
|--------------------|----------------|-------------|-----|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 336911 | 341362 | 1.3 |
| Hexabromobiphenyl | 382032 | 415854 | 8.9 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-JAN-2023
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | | ZB35 Col | | | | |
|--------------------------|-------|--------|--------|--------|--------|--------------------------|--------|--------|--------|---------------|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount |
| Aroclor-1016 | 1 | 7.268 | 0.001 | 41348 | 262.8 | 1 | 7.252 | 0.000 | 48218 | 260.4 |
| Aroclor-1016 | 2 | 7.648 | 0.000 | 139022 | 266.7 | 2 | 7.847 | -0.000 | 104967 | 258.7 |
| Aroclor-1016 | 3 | 7.785 | 0.000 | 57772 | 240.9 | 3 | 8.046 | -0.000 | 44575 | 269.2 |
| Aroclor-1016 | 4 | 8.401 | 0.001 | 41800 | 270.9 | 4 | 8.302 | 0.000 | 33423 | 257.5 |
| Total CollAve (4 peaks): | | | | 260.3 | | Total Col2Ave (4 peaks): | | | | 261.5 RPD = 0 |
| Corrected Ave (3 peaks): | | | | 256.8 | | Corrected Ave (3 peaks): | | | | 258.9 RPD = 1 |
| CalAmt %D: | | | | 4.1 | | CalAmt %D: | | | | 4.6 |
| Aroclor-1260 | 1 | 11.039 | 0.001 | 85821 | 239.5 | 1 | 11.647 | 0.000 | 75728 | 252.4 |
| Aroclor-1260 | 2 | 11.355 | 0.000 | 88572 | 240.4 | 2 | 11.911 | -0.001 | 179497 | 236.5 |
| Aroclor-1260 | 3 | 11.727 | -0.000 | 225351 | 232.4 | 3 | 12.430 | 0.000 | 49379 | 261.0 |
| Aroclor-1260 | 4 | 12.131 | 0.000 | 114783 | 229.1 | 4 | 12.494 | -0.001 | 117952 | 240.1 |
| Aroclor-1260 | 5 | 12.240 | 0.000 | 46747 | 214.0 | NS | --- | | | ---- |
| Total CollAve (5 peaks): | | | | 231.1 | | Total Col2Ave (4 peaks): | | | | 247.5 RPD = 7 |
| Corrected Ave (4 peaks): | | | | 228.7 | | Corrected Ave (3 peaks): | | | | 243.0 RPD = 6 |
| CalAmt %D: | | | | -7.6 | | CalAmt %D: | | | | -1.0 |

Total PCB Area Coll (5.906 - 13.788) = 2443586 Coll Total PCB = 0.5 ppm*

Total PCB Area Col2 (5.784 - 14.016) = 1813600 Col2 Total PCB = 0.5 ppm*

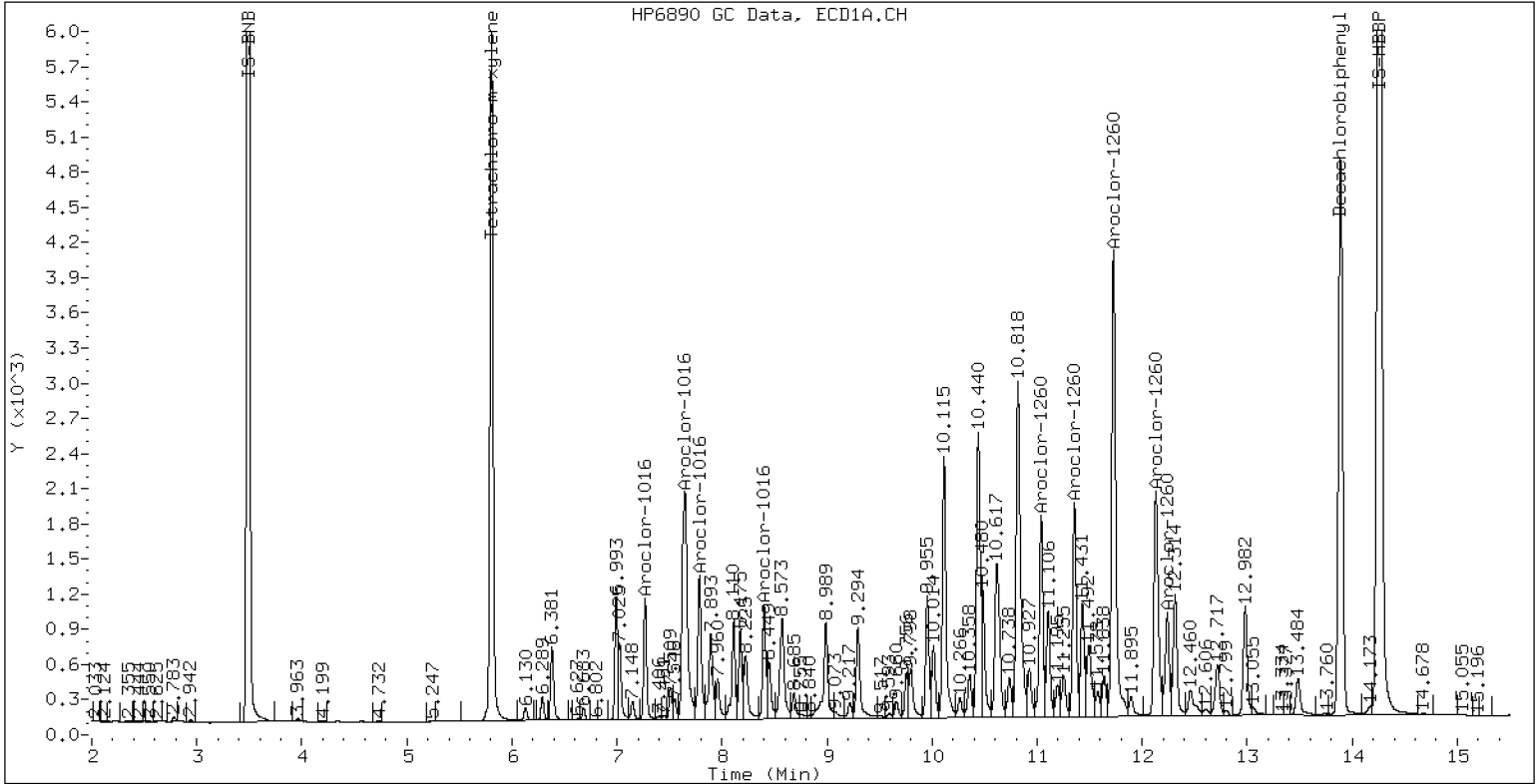
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 AR1660ICV2

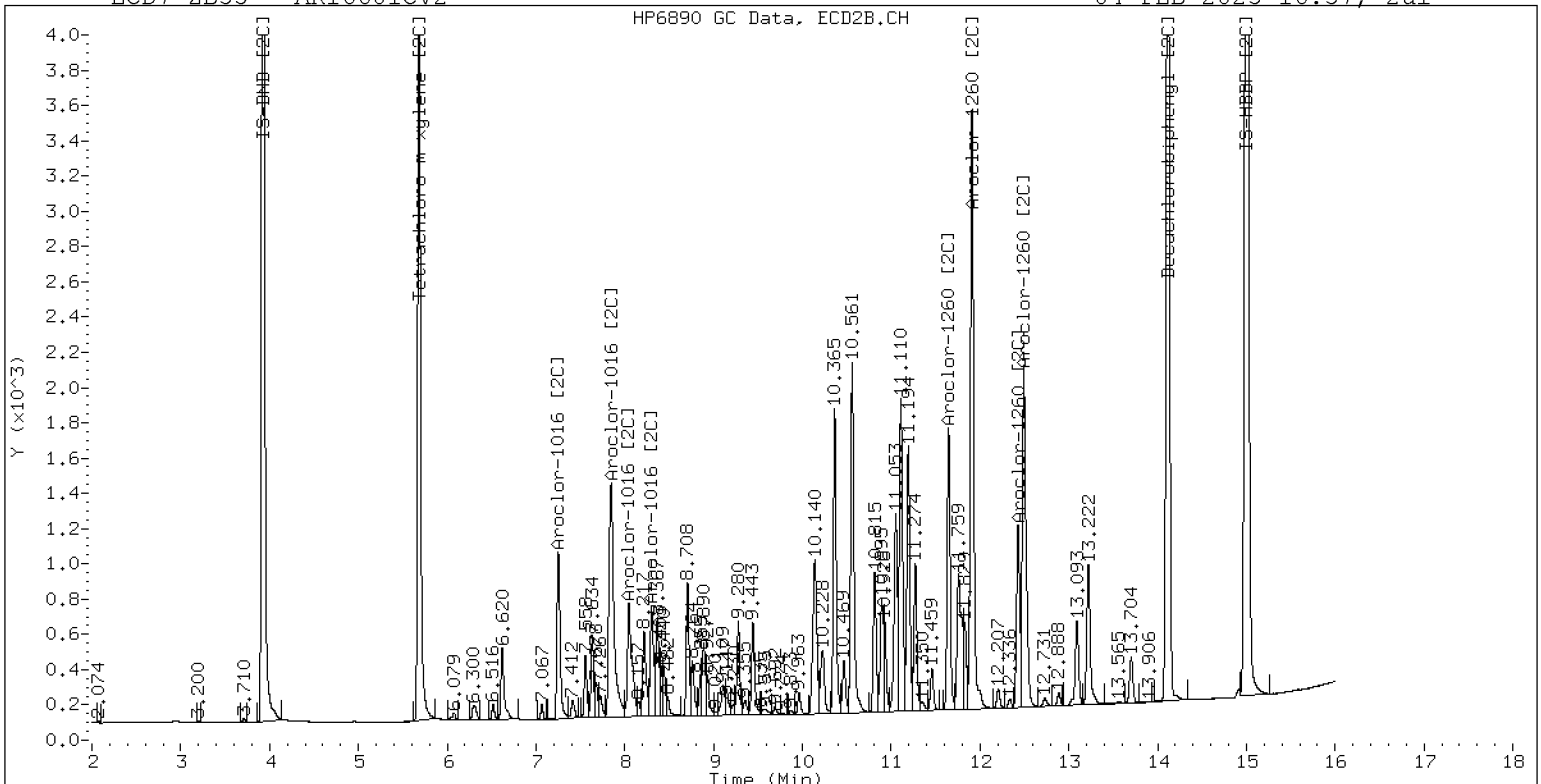
04-FEB-2023 16:37, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660ICV2

04-FEB-2023 16:37, 2ul



ZB-35 Manual Integration: NO



INITIAL CALIBRATION CHECK
EPA 8082A

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor OEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: ECD7

Calibration: GA00061

Lab File ID: 02062302ECD7.D

Calibration Date: 01/24/2023

Sequence: SLB0086

Injection Date: 02/06/23

Lab Sample ID: SLB0086-ICV1

Injection Time: 09:54

Sequence Name: AR1254ICV1

| COMPOUND | TYPE | CONC. (ug/L) | | RESPONSE FACTOR | | | % DRIFT/DIFF | |
|----------------------------|------|--------------|------|-----------------|-----------|-----|--------------|-------|
| | | STD | ICV | ICAL | ICV | MIN | ICV | LIMIT |
| Aroclor 1254 | A | 250.00 | 230 | 0.0675033 | 0.0628494 | | -8.2 | +/-20 |
| Aroclor-1254 (1) | A | 250.00 | 221 | 0.0815329 | 0.0721126 | | | |
| Aroclor-1254 (2) | A | 250.00 | 214 | 0.0348121 | 0.0298731 | | | |
| Aroclor-1254 (3) | A | 250.00 | 226 | 0.0522405 | 0.0472225 | | | |
| Aroclor-1254 (4) | A | 250.00 | 248 | 0.1023658 | 0.1013830 | | | |
| Aroclor-1254 (5) | A | 250.00 | 239 | 0.0665652 | 0.0636557 | | | |
| Aroclor 1254 [2C] | A | 250.00 | 231 | 0.0733219 | 0.0683644 | | -7.8 | +/-20 |
| Aroclor-1254 (1) [2C] | A | 250.00 | 242 | 0.0580388 | 0.0560920 | | | |
| Aroclor-1254 (2) [2C] | A | 250.00 | 222 | 0.0469118 | 0.0416940 | | | |
| Aroclor-1254 (3) [2C] | A | 250.00 | 229 | 0.1023304 | 0.0936084 | | | |
| Aroclor-1254 (4) [2C] | A | 250.00 | 250 | 0.1023323 | 0.1025603 | | | |
| Aroclor-1254 (5) [2C] | A | 250.00 | 210 | 0.0569963 | 0.0478672 | | | |
| Decachlorobiphenyl | A | 40.000 | 41.0 | 0.8555994 | 0.8780073 | | 2.5 | +/-20 |
| Tetrachlorometaxylene | A | 40.000 | 40.6 | 1.1307870 | 1.1470720 | | 1.5 | +/-20 |
| Decachlorobiphenyl [2C] | A | 40.000 | 39.2 | 1.2696430 | 1.2444850 | | -2.0 | +/-20 |
| Tetrachlorometaxylene [2C] | A | 40.000 | 40.7 | 1.0814980 | 1.0996120 | | 1.8 | +/-20 |

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230206.b/02062302ECD7.D
Data file 2: /230206.b/230206.b/02062302ECD7.D
Method: \\target\share\chem4\ecd7.i\230206.b\PCB.m
Compound Sublist: AR1254.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1254ICV1
Client ID:
Injection Date: 06-FEB-2023 09:54
Report Date: 02/07/2023 10:35
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

| ZB5 Col | | ZB35 Col | | | ZB5 | ZB35 | RPD | Compound/Flag | |
|---------|--------|----------|--------|--------|----------|--------|------|---------------|----------------------|
| RT | Shift | Response | RT | Shift | Response | on col | | | on col |
| 5.809 | -0.000 | 275244 | 5.684 | -0.000 | 219709 | 40.6 | 40.7 | 0.2 | Tetrachloro-m-xylene |
| 13.890 | -0.002 | 269917 | 14.117 | 0.000 | 267181 | 41.0 | 39.2 | 4.6 | Decachlorobiphenyl |

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1 | | | |
|--------------------|----------------|-------------|------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 503318 | 479907 | -4.7 |
| Hexabromobiphenyl | 647433 | 614840 | -5.0 |

| Column 2 | | | |
|--------------------|----------------|-------------|------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 336911 | 399612 | 18.6 |
| Hexabromobiphenyl | 382032 | 429384 | 12.4 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-JAN-2023
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | ZB35 Col | | | | | | |
|--------------------------|-------|--------|--------|--------|--------------------------|-------|--------|--------|--------|---------|--|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount | |
| Aroclor-1254 | 1 | 9.294 | -0.005 | 108148 | 221.1 | 1 | 9.443 | -0.001 | 70047 | 241.6 | |
| Aroclor-1254 | 2 | 9.369 | -0.008 | 44801 | 214.5 | 2 | 9.962 | -0.002 | 52067 | 222.2 | |
| Aroclor-1254 | 3 | 9.661 | -0.009 | 70820 | 226.0 | 3 | 10.114 | -0.001 | 116897 | 228.7 | |
| Aroclor-1254 | 4 | 9.797 | -0.011 | 152045 | 247.6 | 4 | 10.362 | -0.002 | 128076 | 250.6 | |
| Aroclor-1254 | 5 | 10.151 | -0.026 | 95465 | 239.1 | 5 | 10.562 | -0.001 | 59776 | 210.0 | |
| Total CollAve (5 peaks): | | | | 229.7 | Total Col2Ave (5 peaks): | | | | 230.6 | RPD = 0 | |
| Corrected Ave (4 peaks): | | | | 225.2 | Corrected Ave (4 peaks): | | | | 225.6 | RPD = 0 | |
| CalAmt %D: | | | | -8.1 | CalAmt %D: | | | | -7.8 | | |

Total PCB Area Col1 (5.909 - 13.792) = 1530972 Col1 Total PCB = 0.3 ppm*

Total PCB Area Col2 (5.784 - 14.017) = 1143928 Col2 Total PCB = 0.3 ppm*

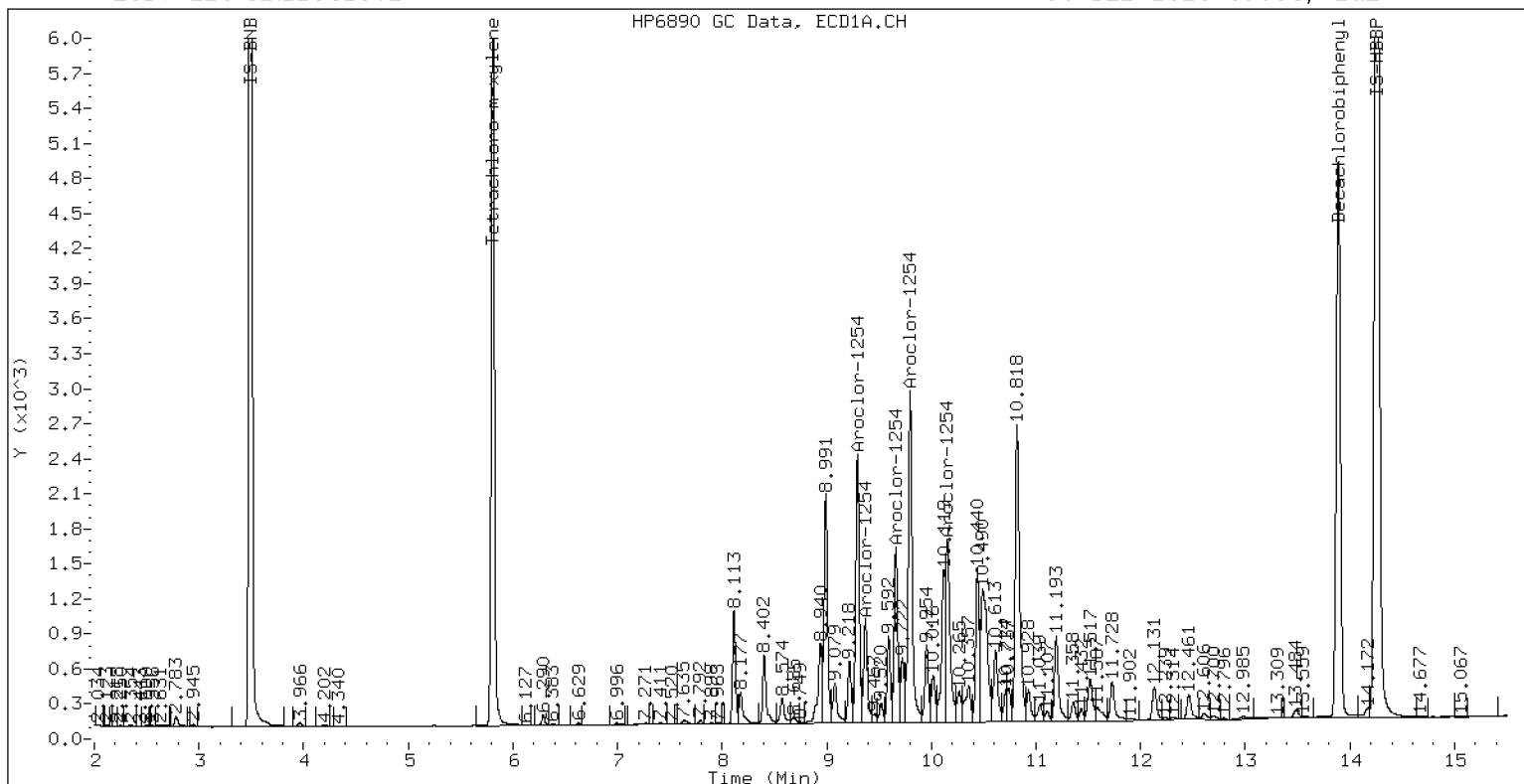
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 AR1254ICV1

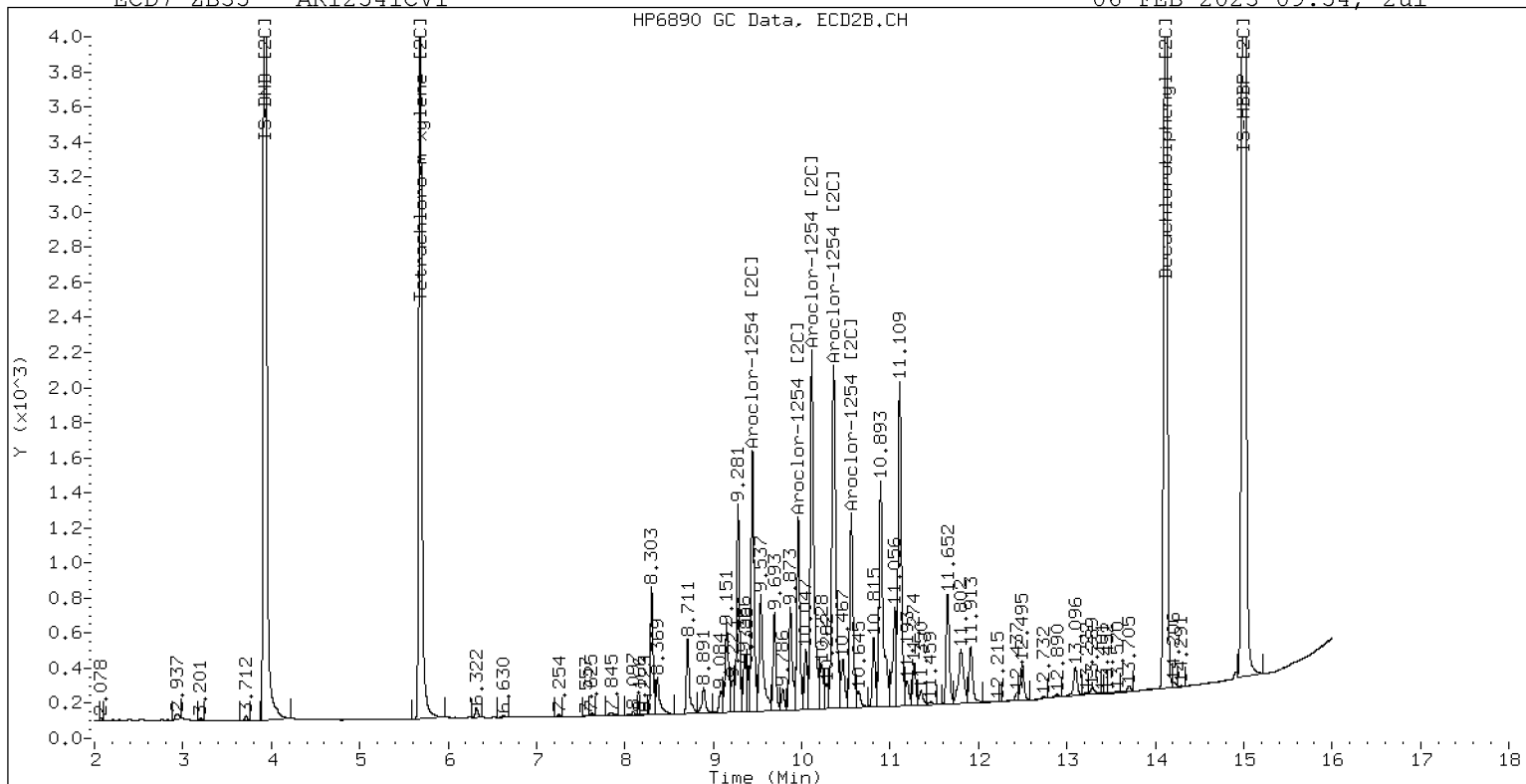
06-FEB-2023 09:54, 2u1



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1254ICV1

06-FEB-2023 09:54, 2u1



ZB-35 Manual Integration: NO



INITIAL CALIBRATION CHECK
EPA 8082A

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: ECD7

Calibration: GA00061

Lab File ID: 02062303ECD7.D

Calibration Date: 01/24/2023

Sequence: SLB0086

Injection Date: 02/06/23

Lab Sample ID: SLB0086-ICV2

Injection Time: 10:15

Sequence Name: AR1660ICV2

| COMPOUND | TYPE | CONC. (ug/L) | | RESPONSE FACTOR | | | % DRIFT/DIFF | |
|----------------------------|------|--------------|------|-----------------|-----------|-----|--------------|-------|
| | | STD | ICV | ICAL | ICV | MIN | ICV | LIMIT |
| Aroclor 1016 | A | 250.00 | 259 | 0.0506755 | 0.0528048 | | 3.7 | +/-20 |
| Aroclor-1016 (1) | A | 250.00 | 261 | 0.0297277 | 0.0310293 | | 4.4 | |
| Aroclor-1016 (2) | A | 250.00 | 267 | 0.0985017 | 0.1053544 | | 6.8 | |
| Aroclor-1016 (3) | A | 250.00 | 240 | 0.0453193 | 0.0434493 | | -4.0 | |
| Aroclor-1016 (4) | A | 250.00 | 269 | 0.0291533 | 0.0313862 | | 7.6 | |
| Aroclor 1016 [2C] | A | 250.00 | 264 | 0.0519244 | 0.0547246 | | 5.6 | +/-20 |
| Aroclor-1016 (1) [2C] | A | 250.00 | 264 | 0.0433907 | 0.0458814 | | 5.6 | |
| Aroclor-1016 (2) [2C] | A | 250.00 | 261 | 0.0950862 | 0.0992501 | | 4.4 | |
| Aroclor-1016 (3) [2C] | A | 250.00 | 273 | 0.0388014 | 0.0423804 | | 9.2 | |
| Aroclor-1016 (4) [2C] | A | 250.00 | 258 | 0.0304194 | 0.0313864 | | 3.2 | |
| Aroclor 1260 | A | 250.00 | 222 | 0.0605224 | 0.0539150 | | -11.3 | +/-20 |
| Aroclor-1260 (1) | A | 250.00 | 233 | 0.0448870 | 0.0418951 | | -6.8 | |
| Aroclor-1260 (2) | A | 250.00 | 232 | 0.0461412 | 0.0427478 | | -7.2 | |
| Aroclor-1260 (3) | A | 250.00 | 221 | 0.1214672 | 0.1074714 | | -11.6 | |
| Aroclor-1260 (4) | A | 250.00 | 220 | 0.0627593 | 0.0552628 | | -12.0 | |
| Aroclor-1260 (5) | A | 250.00 | 203 | 0.0273573 | 0.0221977 | | -18.8 | |
| Aroclor 1260 [2C] | A | 250.00 | 246 | 0.0836545 | 0.0791306 | | -1.7 | +/-20 |
| Aroclor-1260 (1) [2C] | A | 250.00 | 261 | 0.0577136 | 0.0601856 | | 4.4 | |
| Aroclor-1260 (2) [2C] | A | 250.00 | 221 | 0.1460113 | 0.1292809 | | -11.6 | |
| Aroclor-1260 (3) [2C] | A | 250.00 | 268 | 0.0363944 | 0.0389966 | | 7.2 | |
| Aroclor-1260 (4) [2C] | A | 250.00 | 233 | 0.0944986 | 0.0880595 | | -6.8 | |
| Decachlorobiphenyl | A | 40.000 | 39.3 | 0.8555994 | 0.8408264 | | -1.8 | +/-20 |
| Tetrachlorometaxylene | A | 40.000 | 43.3 | 1.1307870 | 1.2241460 | | 8.3 | +/-20 |
| Decachlorobiphenyl [2C] | A | 40.000 | 40.9 | 1.2696430 | 1.2972510 | | 2.3 | +/-20 |
| Tetrachlorometaxylene [2C] | A | 40.000 | 42.8 | 1.0814980 | 1.1582250 | | 7.0 | +/-20 |

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230206.b/02062303ECD7.D
Data file 2: /230206.b/230206.b/02062303ECD7.D
Method: \\target\share\chem4\ecd7.i\230206.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660ICV2
Client ID:
Injection Date: 06-FEB-2023 10:15
Report Date: 02/07/2023 10:35
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

| RT | ZB5 Col Shift | Response | RT | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag |
|--------|---------------|----------|--------|----------------|----------|------------|-------------|-----|----------------------|
| 5.808 | -0.001 | 289756 | 5.685 | 0.001 | 227187 | 43.3 | 42.8 | 1.1 | Tetrachloro-m-xylene |
| 13.890 | -0.002 | 296002 | 14.116 | -0.001 | 293782 | 39.3 | 40.9 | 3.9 | Decachlorobiphenyl |

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1 | | | |
|--------------------|----------------|-------------|------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 503318 | 473401 | -5.9 |
| Hexabromobiphenyl | 647433 | 704074 | 8.7 |
| Column 2 | | | |
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 336911 | 392302 | 16.4 |
| Hexabromobiphenyl | 382032 | 452930 | 18.6 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-JAN-2023
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | ZB35 Col | | | | | |
|--------------------------|-------|-------|--------|--------|----------|--------------------------|-------|--------|--------|---------------|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount |
| Aroclor-1016 | 1 | 7.269 | -0.001 | 45904 | 260.9 | 1 | 7.254 | 0.001 | 56248 | 264.4 |
| Aroclor-1016 | 2 | 7.648 | -0.002 | 155859 | 267.4 | 2 | 7.848 | -0.001 | 121675 | 260.9 |
| Aroclor-1016 | 3 | 7.787 | -0.002 | 64278 | 239.7 | 3 | 8.048 | -0.001 | 51956 | 273.1 |
| Aroclor-1016 | 4 | 8.402 | -0.002 | 46432 | 269.1 | 4 | 8.303 | 0.000 | 38478 | 257.9 |
| Total CollAve (4 peaks): | | | | 259.3 | | Total Col2Ave (4 peaks): | | | | 264.1 RPD = 2 |
| Corrected Ave (3 peaks): | | | | 256.0 | | Corrected Ave (3 peaks): | | | | 261.1 RPD = 2 |

CalAmt %D: 3.7

CalAmt %D: 5.6

| | | | | | | | | | | |
|--------------------------|---|--------|--------|--------|-------|--------------------------|--------|--------|--------|----------------|
| Aroclor-1260 | 1 | 11.040 | -0.004 | 92179 | 233.3 | 1 | 11.649 | 0.001 | 85187 | 260.7 |
| Aroclor-1260 | 2 | 11.356 | -0.004 | 94055 | 231.6 | 2 | 11.911 | -0.001 | 182985 | 221.4 |
| Aroclor-1260 | 3 | 11.727 | -0.007 | 236462 | 221.2 | 3 | 12.430 | -0.001 | 55196 | 267.9 |
| Aroclor-1260 | 4 | 12.130 | -0.010 | 121591 | 220.1 | 4 | 12.495 | -0.002 | 124640 | 233.0 |
| Aroclor-1260 | 5 | 12.239 | -0.005 | 48840 | 202.8 | NS | --- | | | ---- |
| Total CollAve (5 peaks): | | | | 221.8 | | Total Col2Ave (4 peaks): | | | | 245.7 RPD = 10 |
| Corrected Ave (4 peaks): | | | | 218.9 | | Corrected Ave (3 peaks): | | | | 238.3 RPD = 8 |

CalAmt %D: -11.3

CalAmt %D: -1.7

Total PCB Area Coll (5.909 - 13.792) = 2635947 Coll Total PCB = 0.5 ppm*

Total PCB Area Col2 (5.784 - 14.017) = 2041799 Col2 Total PCB = 0.5 ppm*

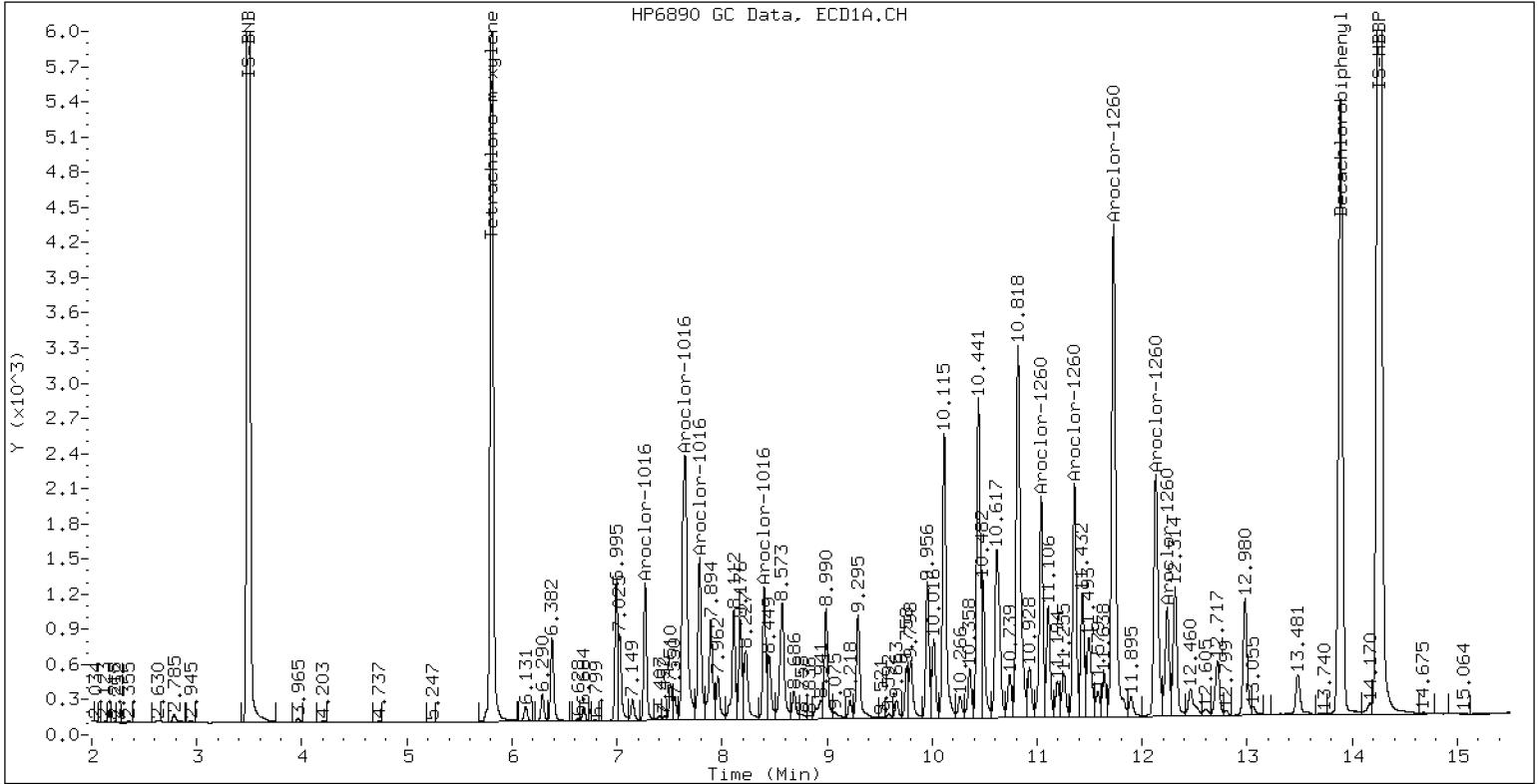
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 AR1660ICV2

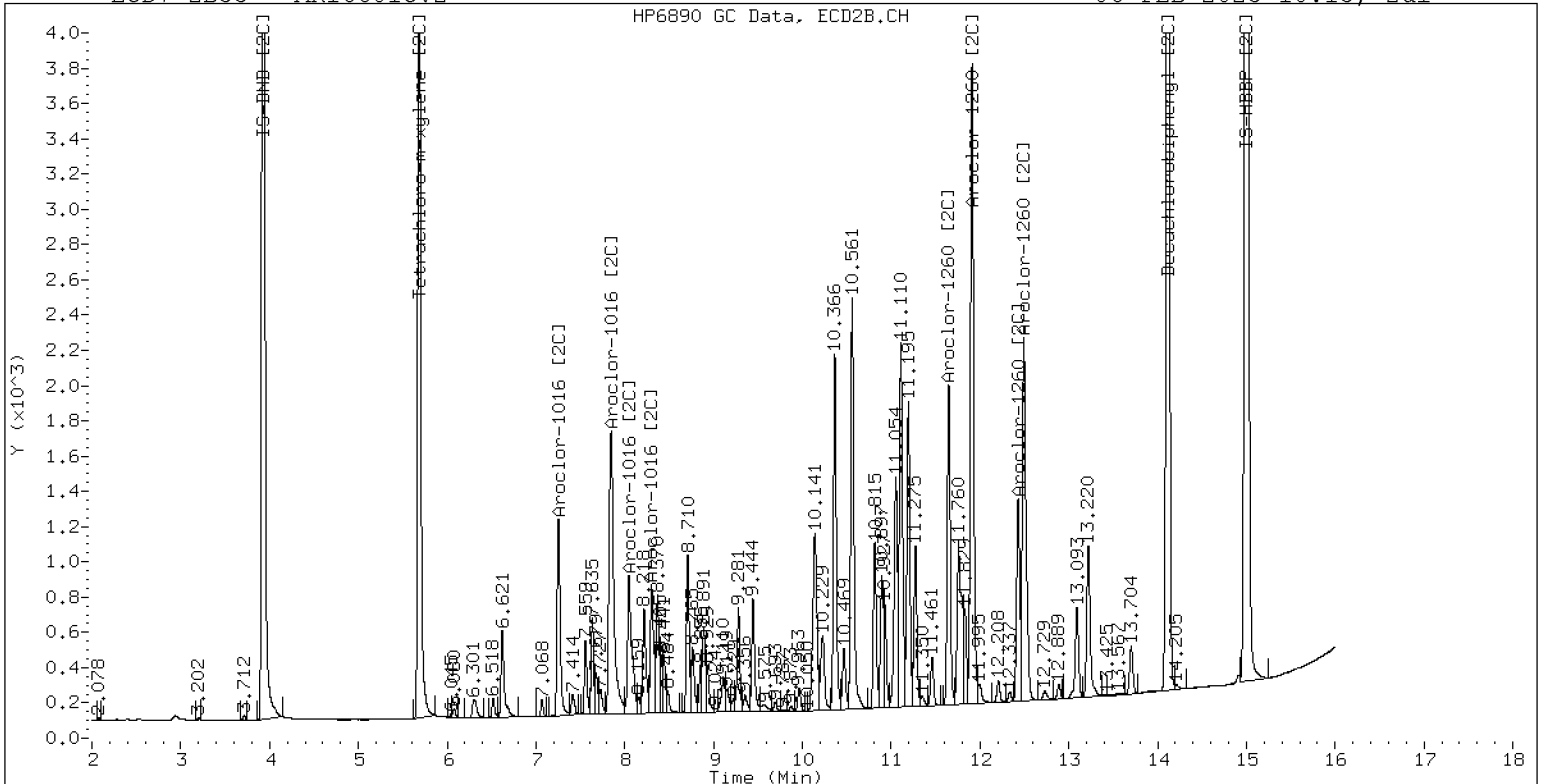
06-FEB-2023 10:15, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660ICV2

06-FEB-2023 10:15, 2ul



ZB-35 Manual Integration: NO



INITIAL CALIBRATION CHECK
EPA 8082A

| | | | |
|----------------|----------------------------------|-------------------|------------------------|
| Laboratory: | <u>Analytical Resources, LLC</u> | SDG: | <u>23A0180</u> |
| Client: | <u>Anchor OEA, LLC</u> | Project: | <u>AOC5 MR Phase 1</u> |
| Instrument ID: | <u>ECD7</u> | Calibration: | <u>GA00061</u> |
| Lab File ID: | <u>02072302ECD7.D</u> | Calibration Date: | <u>01/24/2023</u> |
| Sequence: | <u>SLB0109</u> | Injection Date: | <u>02/07/23</u> |
| Lab Sample ID: | <u>SLB0109-ICV1</u> | Injection Time: | <u>13:02</u> |
| Sequence Name: | <u>AR1254ICV1</u> | | |

| COMPOUND | TYPE | CONC. (ug/L) | | RESPONSE FACTOR | | | % DRIFT/DIFF | |
|----------------------------|------|--------------|------|-----------------|-----------|-----|--------------|-------|
| | | STD | ICV | ICAL | ICV | MIN | ICV | LIMIT |
| Aroclor 1254 | A | 250.00 | 231 | 0.0675033 | 0.0630402 | | -7.8 | +/-20 |
| Aroclor-1254 (1) | A | 250.00 | 223 | 0.0815329 | 0.0727313 | | | |
| Aroclor-1254 (2) | A | 250.00 | 219 | 0.0348121 | 0.0305349 | | | |
| Aroclor-1254 (3) | A | 250.00 | 229 | 0.0522405 | 0.0477727 | | | |
| Aroclor-1254 (4) | A | 250.00 | 248 | 0.1023658 | 0.1017797 | | | |
| Aroclor-1254 (5) | A | 250.00 | 234 | 0.0665652 | 0.0623825 | | | |
| Aroclor 1254 [2C] | A | 250.00 | 237 | 0.0733219 | 0.0699178 | | -5.2 | +/-20 |
| Aroclor-1254 (1) [2C] | A | 250.00 | 242 | 0.0580388 | 0.0561510 | | | |
| Aroclor-1254 (2) [2C] | A | 250.00 | 240 | 0.0469118 | 0.0450229 | | | |
| Aroclor-1254 (3) [2C] | A | 250.00 | 230 | 0.1023304 | 0.0942905 | | | |
| Aroclor-1254 (4) [2C] | A | 250.00 | 255 | 0.1023323 | 0.1043545 | | | |
| Aroclor-1254 (5) [2C] | A | 250.00 | 218 | 0.0569963 | 0.0497702 | | | |
| Decachlorobiphenyl | A | 40.000 | 40.9 | 0.8555994 | 0.8759160 | | 2.3 | +/-20 |
| Tetrachlorometaxylene | A | 40.000 | 40.2 | 1.1307870 | 1.1371960 | | 0.5 | +/-20 |
| Decachlorobiphenyl [2C] | A | 40.000 | 37.7 | 1.2696430 | 1.1977660 | | -5.8 | +/-20 |
| Tetrachlorometaxylene [2C] | A | 40.000 | 40.0 | 1.0814980 | 1.0819800 | | 0.0 | +/-20 |

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230207.b/02072302ECD7.D
 Data file 2: /230207.b/230207.b/02072302ECD7.D
 Method: \\target\share\chem4\ecd7.i\230207.b\PCB.m
 Compound Sublist: AR1254.sub
 Instrument, Inj. Vol.: ecd7.i, 2ul
 Quant Method: Internal Std

ARI ID: AR1254ICV1
 Client ID:
 Injection Date: 07-FEB-2023 13:02
 Report Date: 02/08/2023 11:47
 Matrix: NONE
 Dilution Factor: 1.0

SURROGATES

| RT | ZB5 Col Shift | Response | RT | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag |
|--------|---------------|----------|--------|----------------|----------|------------|-------------|-----|----------------------|
| 5.809 | 0.001 | 213462 | 5.685 | -0.000 | 176024 | 40.2 | 40.0 | 0.5 | Tetrachloro-m-xylene |
| 13.891 | 0.003 | 252280 | 14.117 | -0.000 | 260217 | 40.9 | 37.7 | 8.2 | Decachlorobiphenyl |

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | |
|--------------------|----------------|-------------|-------|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 503318 | 375418 | -25.4 |
| Hexabromobiphenyl | 647433 | 576037 | -11.0 |

| Standard Cpnd | Column 2 | | |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 336911 | 325374 | -3.4 |
| Hexabromobiphenyl | 382032 | 434504 | 13.7 |

* Standard Areas taken from Initial Cal Level 3
 Initial Calibration Date: 24-JAN-2023
 <- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | ZB35 Col | | | | | | |
|--------------------------|-------|--------|--------|--------|----------|--------------------------|--------|-------|--------|--------|---------|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount | |
| Aroclor-1254 | 1 | 9.295 | -0.004 | 85327 | 223.0 | 1 | 9.444 | 0.001 | 57094 | 241.9 | |
| Aroclor-1254 | 2 | 9.371 | -0.007 | 35823 | 219.3 | 2 | 9.963 | 0.000 | 45779 | 239.9 | |
| Aroclor-1254 | 3 | 9.662 | -0.007 | 56046 | 228.6 | 3 | 10.116 | 0.002 | 95874 | 230.4 | |
| Aroclor-1254 | 4 | 9.798 | -0.010 | 119406 | 248.6 | 4 | 10.364 | 0.001 | 106107 | 254.9 | |
| Aroclor-1254 | 5 | 10.157 | -0.020 | 73186 | 234.3 | 5 | 10.562 | 0.000 | 50606 | 218.3 | |
| Total CollAve (5 peaks): | | | | 230.8 | | Total Col2Ave (5 peaks): | | | | 237.1 | RPD = 3 |
| Corrected Ave (4 peaks): | | | | 226.3 | | Corrected Ave (4 peaks): | | | | 232.6 | RPD = 3 |
| CalAmt %D: | | | | -7.7 | | CalAmt %D: | | | | -5.2 | |

Total PCB Area Col1 (5.908 - 13.788) = 1220590 Col1 Total PCB = 0.3 ppm*

Total PCB Area Col2 (5.785 - 14.017) = 968129 Col2 Total PCB = 0.3 ppm*

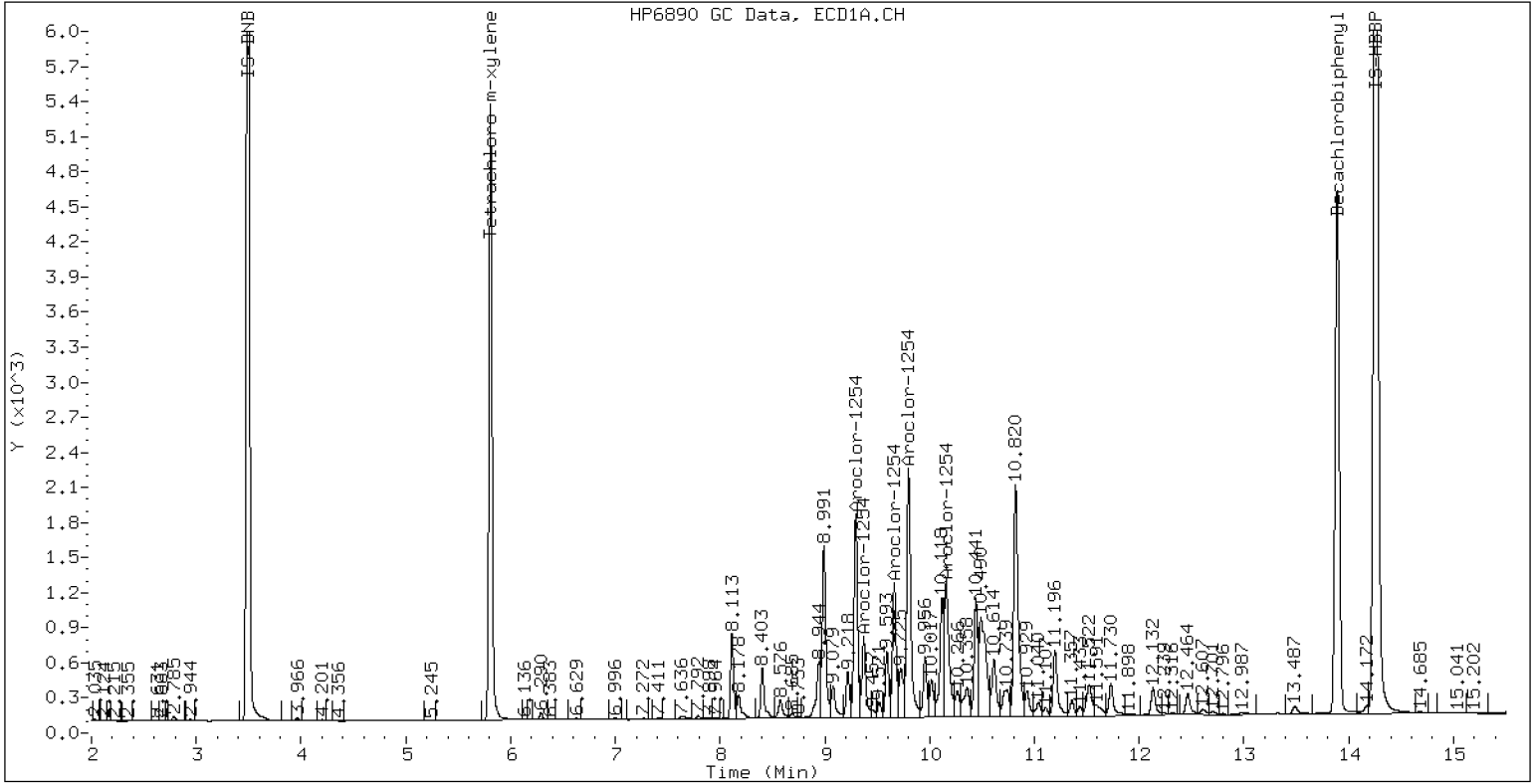
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 AR1254ICV1

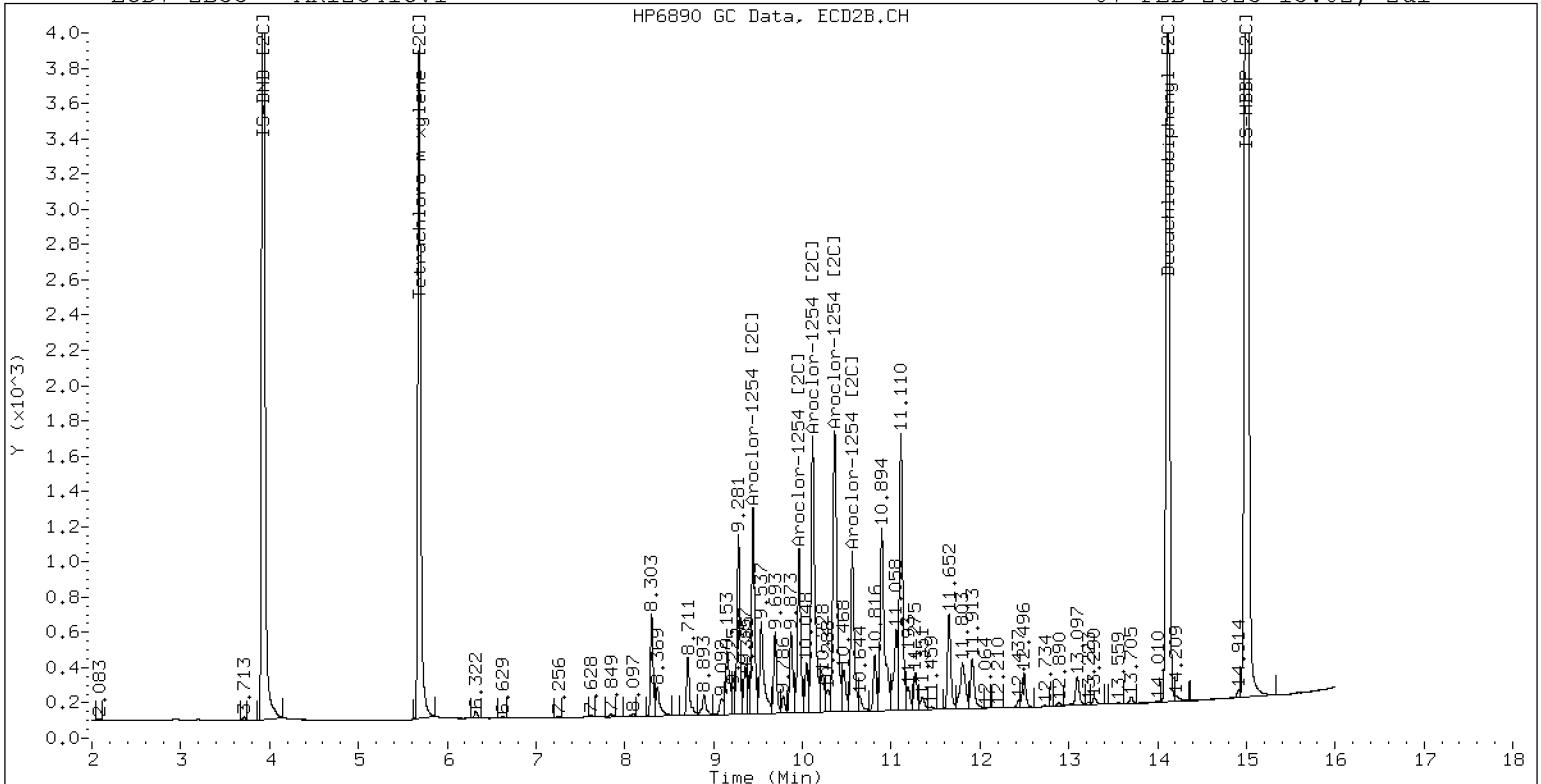
07-FEB-2023 13:02, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1254ICV1

07-FEB-2023 13:02, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230207.b/02072303ECD7.D
Data file 2: /230207.b/230207.b/02072303ECD7.D
Method: \\target\share\chem4\ecd7.i\230207.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660ICV2
Client ID:
Injection Date: 07-FEB-2023 13:23
Report Date: 02/08/2023 11:47
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

| ZB5 Col | | ZB35 Col | | ZB5 | ZB35 | RPD | Compound/Flag | | |
|---------|----------------|----------|----------------|--------|--------|------|---------------|-----|----------------------|
| RT | Shift Response | RT | Shift Response | on col | on col | | | | |
| 5.809 | 0.001 | 198119 | 5.686 | 0.001 | 164906 | 42.8 | 42.9 | 0.3 | Tetrachloro-m-xylene |
| 13.890 | 0.001 | 238337 | 14.116 | -0.001 | 247061 | 37.9 | 39.9 | 5.0 | Decachlorobiphenyl |

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1 | | | |
|--------------------|----------------|-------------|-------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 503318 | 327497 | -34.9 |
| Hexabromobiphenyl | 647433 | 587822 | -9.2 |

| Column 2 | | | |
|--------------------|----------------|-------------|-------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 336911 | 284039 | -15.7 |
| Hexabromobiphenyl | 382032 | 390643 | 2.3 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-JAN-2023
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | ZB35 Col | | | | | | |
|--------------------------|-------|--------|--------|--------|----------|--------------------------|--------|--------|--------|--------|----------|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount | |
| Aroclor-1016 | 1 | 7.270 | -0.000 | 32174 | 264.4 | 1 | 7.254 | 0.001 | 41080 | 266.7 | |
| Aroclor-1016 | 2 | 7.649 | -0.001 | 105597 | 261.9 | 2 | 7.850 | 0.001 | 88484 | 262.1 | |
| Aroclor-1016 | 3 | 7.788 | -0.001 | 44371 | 239.2 | 3 | 8.049 | 0.002 | 37680 | 273.5 | |
| Aroclor-1016 | 4 | 8.402 | -0.001 | 31799 | 266.4 | 4 | 8.304 | 0.001 | 28078 | 260.0 | |
| Total CollAve (4 peaks): | | | | 258.0 | | Total Col2Ave (4 peaks): | | | | 265.6 | RPD = 3 |
| Corrected Ave (3 peaks): | | | | 255.1 | | Corrected Ave (3 peaks): | | | | 262.9 | RPD = 3 |
| CalAmt %D: | | | | 3.2 | | CalAmt %D: | | | | 6.2 | |
| Aroclor-1260 | 1 | 11.040 | -0.004 | 66074 | 200.3 | 1 | 11.649 | 0.000 | 64545 | 229.0 | |
| Aroclor-1260 | 2 | 11.357 | -0.004 | 67703 | 199.7 | 2 | 11.912 | -0.000 | 155175 | 217.6 | |
| Aroclor-1260 | 3 | 11.729 | -0.005 | 172655 | 193.4 | 3 | 12.431 | -0.001 | 42205 | 237.5 | |
| Aroclor-1260 | 4 | 12.132 | -0.007 | 89004 | 193.0 | 4 | 12.496 | 0.000 | 102611 | 222.4 | |
| Aroclor-1260 | 5 | 12.240 | -0.004 | 36456 | 181.4 | NS | --- | | | ---- | |
| Total CollAve (5 peaks): | | | | 193.6 | | Total Col2Ave (4 peaks): | | | | 226.6 | RPD = 16 |
| Corrected Ave (4 peaks): | | | | 191.9 | | Corrected Ave (3 peaks): | | | | 223.0 | RPD = 15 |
| CalAmt %D: | | | | -22.6 | | CalAmt %D: | | | | -9.3 | |

Total PCB Area Coll (5.908 - 13.788) = 1886021 Coll Total PCB = 0.5 ppm*

Total PCB Area Col2 (5.785 - 14.017) = 1541709 Col2 Total PCB = 0.5 ppm*

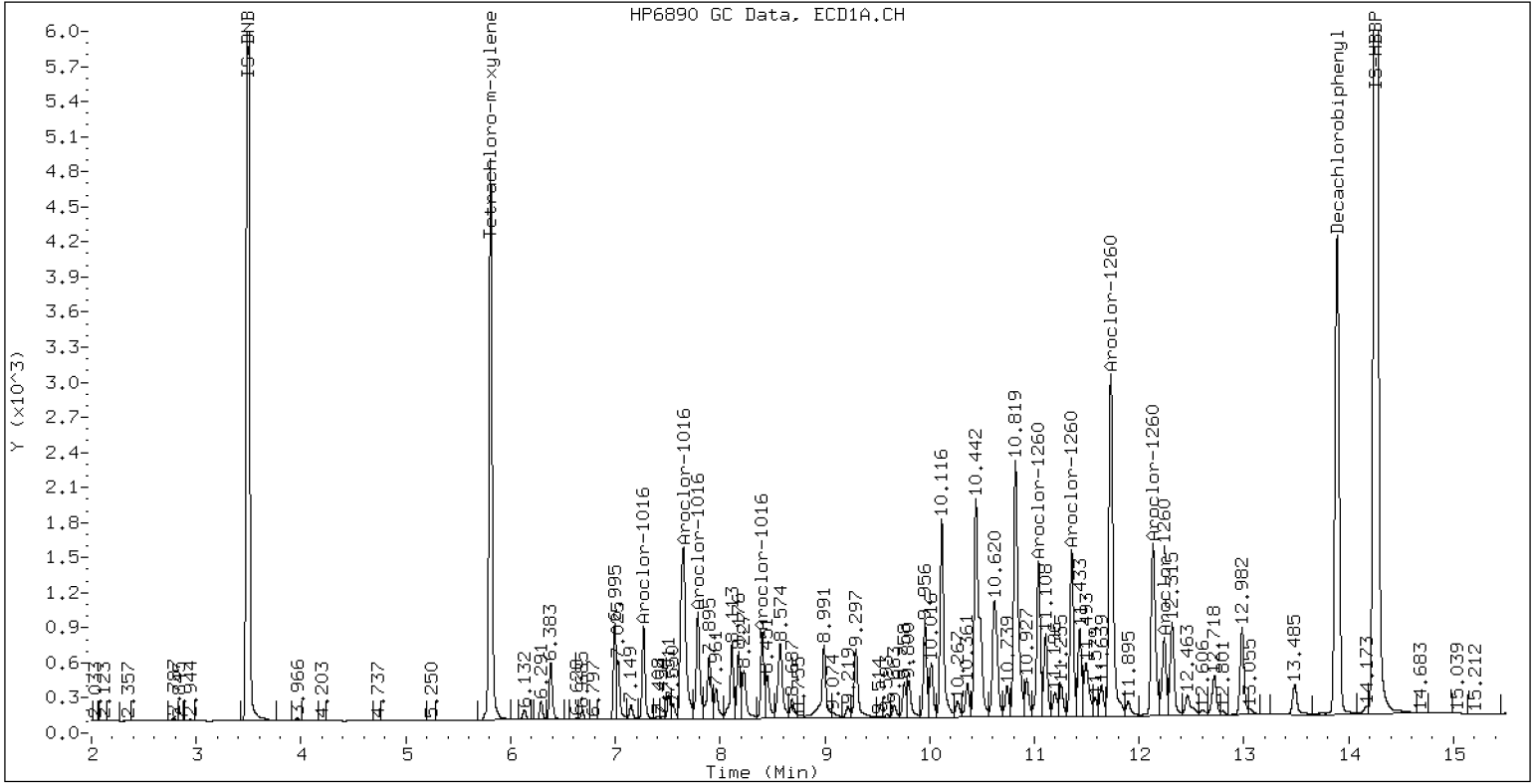
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 AR1660ICV2

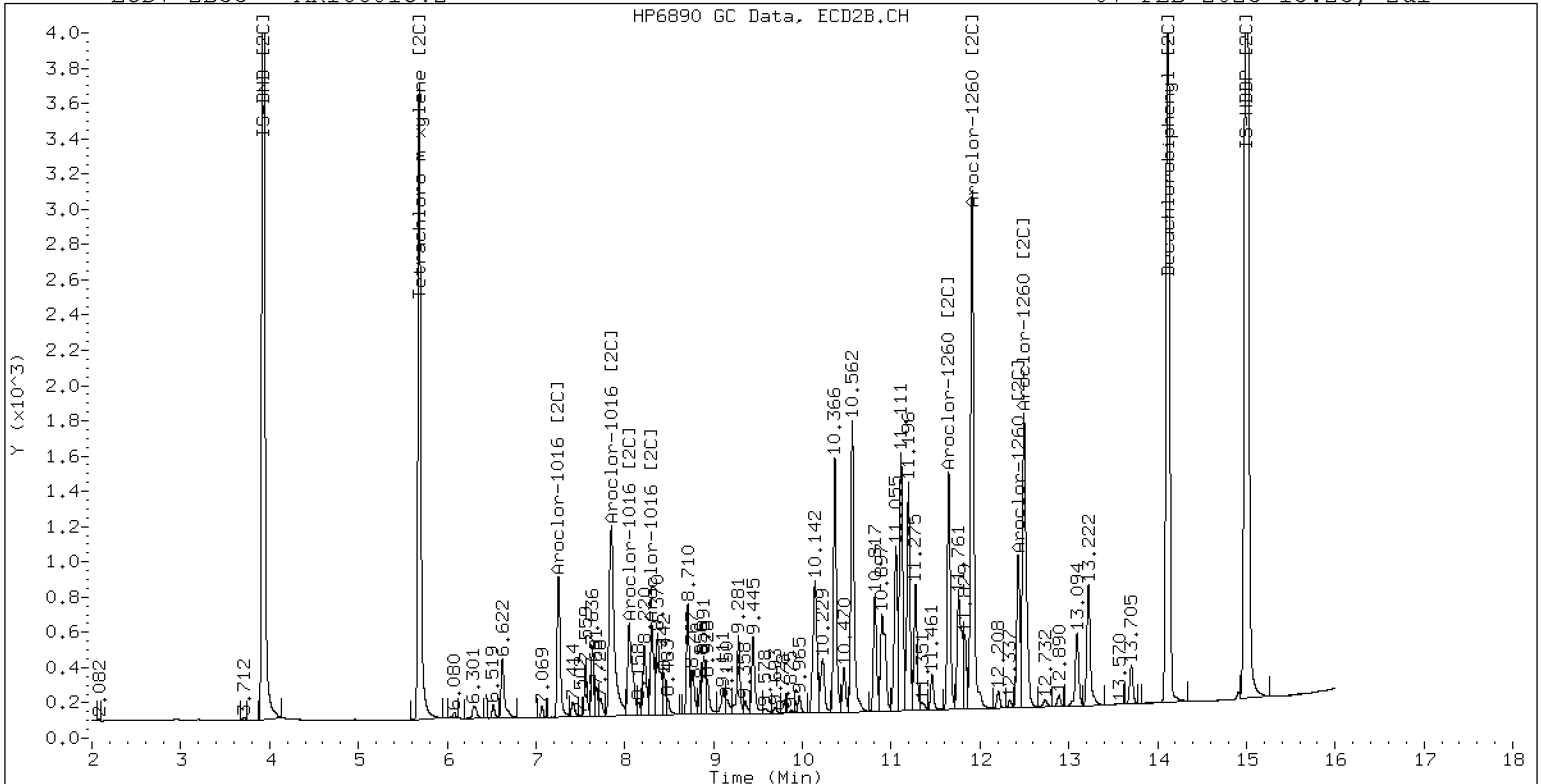
07-FEB-2023 13:23, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660ICV2

07-FEB-2023 13:23, 2ul



ZB-35 Manual Integration: NO



**SECOND-SOURCE
CONTINUING CALIBRATION CHECK
EPA 8082A**

| | | | |
|----------------|----------------------------------|-------------------|------------------------|
| Laboratory: | <u>Analytical Resources, LLC</u> | SDG: | <u>23A0180</u> |
| Client: | <u>Anchor QEA, LLC</u> | Project: | <u>AOC5 MR Phase 1</u> |
| Instrument ID: | <u>ECD7</u> | Calibration: | <u>GA00061</u> |
| Lab File ID: | <u>01242324ECD7.D</u> | Calibration Date: | <u>01/24/2023</u> |
| Sequence: | <u>SLA0281</u> | Injection Date: | <u>01/24/23</u> |
| Lab Sample ID: | <u>SLA0281-SCV1</u> | Injection Time: | <u>19:51</u> |
| Sequence Name: | <u>AR1660SCV1</u> | | |

| COMPOUND | TYPE | CONC. (ug/L) | | RESPONSE FACTOR (RRF) | | | % DRIFT/DIFF | |
|----------------------------|------|--------------|------|-----------------------|-----------|-----|--------------|-------|
| | | STD | CCV | ICAL | CCV | MIN | CCV | LIMIT |
| Aroclor 1016 | A | 250.00 | 217 | 0.0506755 | 0.0439293 | | -13.2 | +/-20 |
| Aroclor 1016 [2C] | A | 250.00 | 220 | 0.0519244 | 0.0458194 | | -11.9 | +/-20 |
| Aroclor 1260 | A | 250.00 | 211 | 0.0605224 | 0.0508252 | | -15.7 | +/-20 |
| Aroclor 1260 [2C] | A | 250.00 | 238 | 0.0836545 | 0.0795027 | | -4.9 | +/-20 |
| Decachlorobiphenyl | A | 40.000 | 37.9 | 0.8555994 | 0.8115673 | | -5.1 | +/-20 |
| Tetrachlorometaxylene | A | 40.000 | 37.5 | 1.1307870 | 1.0610020 | | -6.2 | +/-20 |
| Decachlorobiphenyl [2C] | A | 40.000 | 40.2 | 1.2696430 | 1.2773160 | | 0.6 | +/-20 |
| Tetrachlorometaxylene [2C] | A | 40.000 | 37.3 | 1.0814980 | 1.0082190 | | -6.8 | +/-20 |

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230124.b/01242324ECD7.D
Data file 2: /230124.b/230124.b/01242324ECD7.D
Method: \\target\share\chem4\ecd7.i\230124.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660 SCV
Client ID:
Injection Date: 24-JAN-2023 19:51
Report Date: 01/25/2023 10:53
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

| RT | ZB5 Col Shift | Response | RT | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag |
|--------|---------------|----------|--------|----------------|----------|------------|-------------|-----|----------------------|
| 5.809 | -0.000 | 268739 | 5.686 | -0.001 | 172961 | 37.5 | 37.3 | 0.6 | Tetrachloro-m-xylene |
| 13.891 | -0.000 | 381489 | 14.121 | 0.001 | 320416 | 37.9 | 40.2 | 5.9 | Decachlorobiphenyl |

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 503318 | 506576 | 0.6 |
| Hexabromobiphenyl | 647433 | 940129 | 45.2 |

| Standard Cpnd | Column 2 | | |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 336911 | 343102 | 1.8 |
| Hexabromobiphenyl | 382032 | 501702 | 31.3 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-JAN-2023
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | ZB35 Col | | | | | | |
|--------------------------|-------|--------|--------|--------|--------------------------|-------|--------|--------|--------|-----------|--|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount | |
| Aroclor-1016 | 1 | 7.271 | 0.001 | 40958 | 217.6 | 1 | 7.255 | 0.001 | 40190 | 216.0 | |
| Aroclor-1016 | 2 | 7.655 | 0.004 | 135282 | 216.9 | 2 | 7.852 | 0.001 | 90338 | 221.5 | |
| Aroclor-1016 | 3 | 7.791 | 0.003 | 61557 | 214.5 | 3 | 8.052 | 0.002 | 37810 | 227.2 | |
| Aroclor-1016 | 4 | 8.406 | 0.002 | 40372 | 218.7 | 4 | 8.306 | 0.000 | 28171 | 215.9 | |
| Total CollAve (4 peaks): | | | | 216.9 | Total Col2Ave (4 peaks): | | | | 220.2 | RPD = 1 | |
| Corrected Ave (3 peaks): | | | | 216.3 | Corrected Ave (3 peaks): | | | | 217.8 | RPD = 1 | |
| Aroclor-1221 | 1 | 4.732 | -0.001 | 256 | 6.8 | 1 | --- | | | 0.0 | |
| Aroclor-1221 | 2 | 6.131 | -0.002 | 4742 | 61.9 | 2 | 6.302 | 0.004 | 5037 | 91.4 | |
| Aroclor-1221 | 3 | 6.384 | -0.000 | 27448 | 154.4 | 3 | 6.623 | -0.000 | 18931 | 203.5 | |
| Total CollAve (3 peaks): | | | | 74.4 | Col2Ave: <3 Quant Peaks | | | | | | |
| Aroclor-1232 | 1 | 4.732 | -0.001 | 256 | 11.0 | 1 | --- | | | 0.0 | |
| Aroclor-1232 | 2 | 6.131 | -0.002 | 4742 | 90.0 | 2 | 7.255 | -0.001 | 40190 | 470.8 | |
| Aroclor-1232 | 3 | 7.655 | -0.004 | 135282 | 513.5 | 3 | 7.852 | -0.002 | 90338 | 519.5 | |
| Aroclor-1232 | 4 | 8.581 | -0.003 | 56938 | 504.9 | 4 | 8.713 | -0.001 | 27776 | 574.9 | |
| Total CollAve (4 peaks): | | | | 279.8 | Total Col2Ave (3 peaks): | | | | 521.7 | RPD = 60* | |
| Corrected Ave (3 peaks): | | | | 202.0 | Corrected Ave: < 3 Peaks | | | | | | |
| Aroclor-1242 | 1 | 7.271 | -0.000 | 40958 | 264.0 | 1 | 7.255 | -0.000 | 40190 | 267.8 | |
| Aroclor-1242 | 2 | 7.655 | -0.001 | 135282 | 266.5 | 2 | 7.852 | -0.001 | 90338 | 271.0 | |
| Aroclor-1242 | 3 | 8.406 | -0.001 | 40372 | 267.7 | 3 | 9.115 | -0.045 | 15827 | 151.6 | |
| Aroclor-1242 | 4 | 8.581 | -0.000 | 56938 | 249.9 | 4 | 9.587 | 0.001 | 3186 | 23.0 | |
| Total CollAve (4 peaks): | | | | 262.0 | Total Col2Ave (4 peaks): | | | | 178.4 | RPD = 38 | |
| Corrected Ave (3 peaks): | | | | 260.1 | Corrected Ave (3 peaks): | | | | 147.5 | RPD = 55* | |
| Aroclor-1248 | 1 | 8.406 | 0.000 | 40372 | 159.3 | 1 | 8.306 | 0.000 | 28171 | 181.6 | |
| Aroclor-1248 | 2 | 8.581 | 0.001 | 56938 | 176.1 | 2 | 8.713 | 0.000 | 27776 | 166.4 | |
| Aroclor-1248 | 3 | 8.995 | -0.004 | 58213 | 94.1 | 3 | 9.115 | -0.042 | 15827 | 77.6 | |
| Aroclor-1248 | 4 | 9.304 | 0.010 | 36620 | 119.6 | 4 | 9.587 | 0.006 | 3186 | 12.6 | |
| Total CollAve (4 peaks): | | | | 137.3 | Total Col2Ave (4 peaks): | | | | 109.6 | RPD = 22 | |
| Corrected Ave (3 peaks): | | | | 124.4 | Corrected Ave (3 peaks): | | | | 85.5 | RPD = 37 | |
| Aroclor-1254 | 1 | 9.304 | 0.005 | 36620 | 70.9 | 1 | 9.450 | 0.002 | 20792 | 83.5 | |
| Aroclor-1254 | 2 | --- | | | 0.0 | 2 | 9.972 | 0.003 | 2640 | 13.1 | |
| Aroclor-1254 | 3 | 9.673 | 0.003 | 4075 | 12.3 | 3 | 10.148 | 0.027 | 52902 | 120.5 | |
| Aroclor-1254 | 4 | 9.813 | 0.004 | 14733 | 22.7 | 4 | 10.372 | 0.000 | 71680 | 163.3 | |
| Aroclor-1254 | 5 | 10.122 | -0.055 | 119528 | 283.6 | 5 | 10.569 | -0.000 | 98559 | 403.2 | |
| Total CollAve (4 peaks): | | | | 97.4 | Total Col2Ave (5 peaks): | | | | 156.7 | RPD = 47* | |
| Corrected Ave (3 peaks): | | | | 35.3 | Corrected Ave (4 peaks): | | | | 95.1 | RPD = 92* | |
| Aroclor-1260 | 1 | 11.045 | 0.002 | 116435 | 220.7 | 1 | 11.654 | 0.000 | 81795 | 226.0 | |
| Aroclor-1260 | 2 | 11.362 | 0.001 | 116918 | 215.6 | 2 | 11.920 | 0.002 | 217887 | 238.0 | |
| Aroclor-1260 | 3 | 11.738 | 0.003 | 303264 | 212.5 | 3 | 12.437 | 0.001 | 56212 | 246.3 | |
| Aroclor-1260 | 4 | 12.143 | 0.004 | 141534 | 191.9 | 4 | 12.502 | 0.000 | 142689 | 240.8 | |
| Aroclor-1260 | 5 | 12.246 | 0.002 | 68446 | 212.9 | NS | --- | | | ---- | |
| Total CollAve (5 peaks): | | | | 210.7 | Total Col2Ave (4 peaks): | | | | 237.8 | RPD = 12 | |
| Corrected Ave (4 peaks): | | | | 208.2 | Corrected Ave (3 peaks): | | | | 234.9 | RPD = 12 | |
| Aroclor-1262 | 1 | 10.830 | -0.002 | 169725 | 446.4 | 1 | 11.200 | 0.000 | 83995 | 171.1 | |
| Aroclor-1262 | 2 | 12.246 | 0.000 | 68446 | 114.1 | 2 | 11.654 | 0.001 | 81795 | 195.9 | |
| Aroclor-1262 | 3 | 12.320 | -0.000 | 84201 | 129.2 | 3 | 12.437 | 0.003 | 56212 | 126.4 | |
| Aroclor-1262 | 4 | 12.989 | -0.000 | 78065 | 131.5 | 4 | 12.502 | -0.001 | 142689 | 200.4 | |
| Total CollAve (4 peaks): | | | | 205.3 | Total Col2Ave (4 peaks): | | | | 173.4 | RPD = 17 | |
| Corrected Ave (3 peaks): | | | | 124.9 | Corrected Ave (3 peaks): | | | | 164.5 | RPD = 27 | |
| Aroclor-1268 | 1 | 12.246 | 0.001 | 68446 | 44.1 | 1 | 12.437 | 0.003 | 56212 | 48.0 | |
| Aroclor-1268 | 2 | 12.320 | 0.002 | 84201 | 54.4 | 2 | 12.502 | 0.001 | 142689 | 114.4 | |
| Aroclor-1268 | 3 | 12.726 | 0.027 | 33020 | 25.7 | 3 | 12.894 | 0.001 | 1495 | 1.4 | |
| Aroclor-1268 | 4 | 13.490 | 0.001 | 16019 | 4.2 | 4 | 13.709 | 0.001 | 10120 | 3.2 | |
| Total CollAve (4 peaks): | | | | 32.1 | Total Col2Ave (4 peaks): | | | | 41.8 | RPD = 26 | |
| Corrected Ave (3 peaks): | | | | 24.7 | Corrected Ave (3 peaks): | | | | 17.5 | RPD = 34 | |

Total PCB Area Col1 (5.909 - 13.792) = 2789370 Col1 Total PCB = 0.5 ppm*

Total PCB Area Col2 (5.787 - 14.020) = 1810543 Col2 Total PCB = 0.5 ppm*

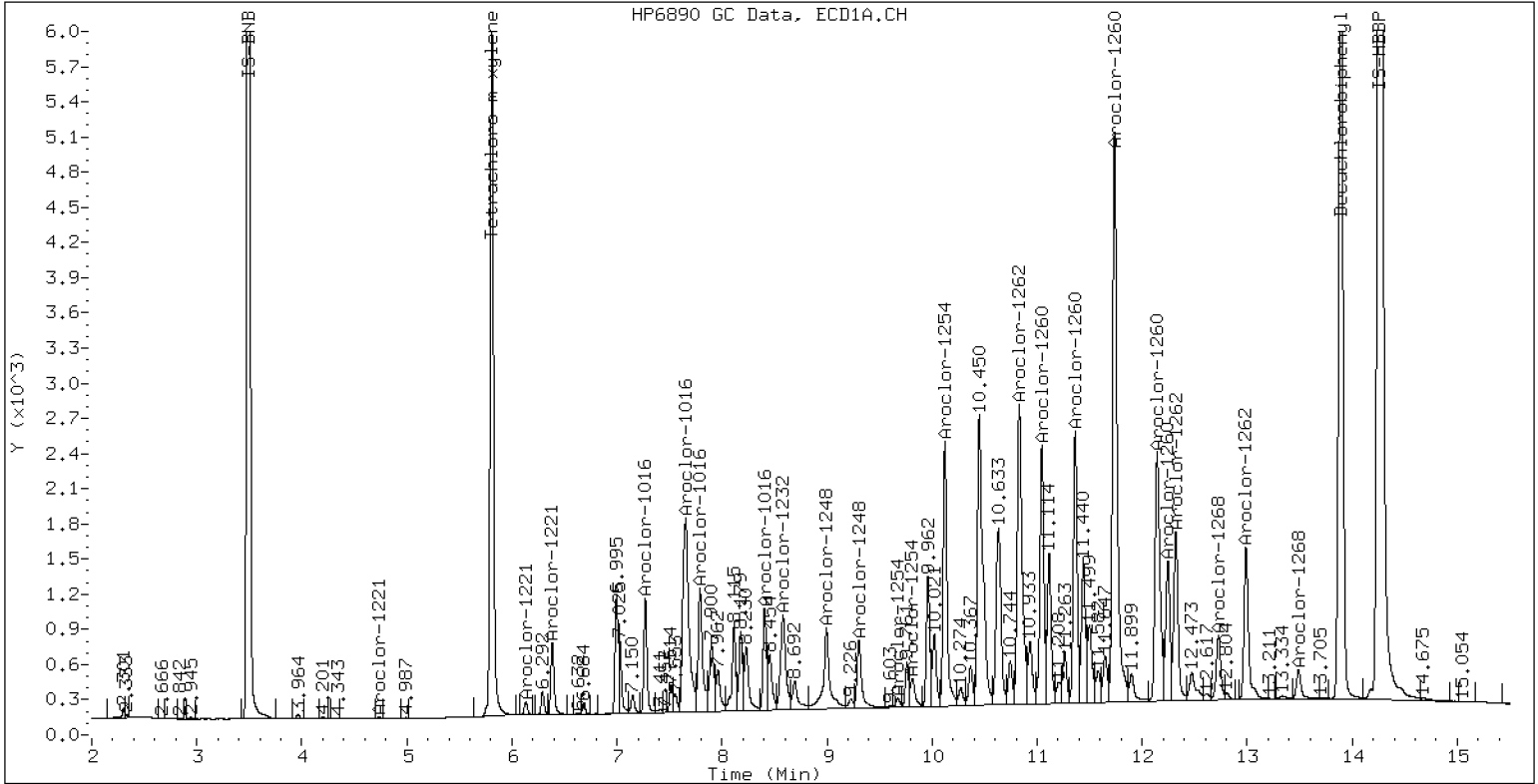
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 AR1660 SCV

24-JAN-2023 19:51, 2ul





**SECOND-SOURCE
CONTINUING CALIBRATION CHECK
EPA 8082A**

| | | | |
|----------------|----------------------------------|-------------------|------------------------|
| Laboratory: | <u>Analytical Resources, LLC</u> | SDG: | <u>23A0180</u> |
| Client: | <u>Anchor QEA, LLC</u> | Project: | <u>AOC5 MR Phase 1</u> |
| Instrument ID: | <u>ECD7</u> | Calibration: | <u>GA00061</u> |
| Lab File ID: | <u>01242325ECD7.D</u> | Calibration Date: | <u>01/24/2023</u> |
| Sequence: | <u>SLA0281</u> | Injection Date: | <u>01/24/23</u> |
| Lab Sample ID: | <u>SLA0281-SCV2</u> | Injection Time: | <u>20:12</u> |
| Sequence Name: | <u>AR1242SCV2</u> | | |

| COMPOUND | TYPE | CONC. (ug/L) | | RESPONSE FACTOR (RRF) | | | % DRIFT/DIFF | |
|----------------------------|------|--------------|------|-----------------------|-----------|-----|--------------|-------|
| | | STD | CCV | ICAL | CCV | MIN | CCV | LIMIT |
| Aroclor 1242 | A | 250.00 | 223 | 0.0411165 | 0.0365437 | | -10.9 | +/-20 |
| Aroclor 1242 [2C] | A | 250.00 | 235 | 0.0423236 | 0.0386405 | | -5.9 | +/-20 |
| Decachlorobiphenyl | A | 40.000 | 38.5 | 0.8555994 | 0.8244733 | | -3.6 | +/-20 |
| Tetrachlorometaxylene | A | 40.000 | 37.8 | 1.1307870 | 1.0677240 | | -5.6 | +/-20 |
| Decachlorobiphenyl [2C] | A | 40.000 | 40.3 | 1.2696430 | 1.2804690 | | 0.9 | +/-20 |
| Tetrachlorometaxylene [2C] | A | 40.000 | 37.4 | 1.0814980 | 1.0101840 | | -6.6 | +/-20 |

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230124.b/01242325ECD7.D
Data file 2: /230124.b/230124.b/01242325ECD7.D
Method: \\target\share\chem4\ecd7.i\230124.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1242 SCV
Client ID:
Injection Date: 24-JAN-2023 20:12
Report Date: 01/25/2023 10:53
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

| ZB5 Col | | ZB35 Col | | | ZB5 | ZB35 | RPD | Compound/Flag | |
|---------|--------|----------|--------|--------|----------|--------|------|---------------|----------------------|
| RT | Shift | Response | RT | Shift | Response | on col | | | on col |
| 5.809 | -0.000 | 268580 | 5.686 | -0.001 | 172592 | 37.8 | 37.4 | 1.1 | Tetrachloro-m-xylene |
| 13.892 | 0.001 | 392918 | 14.121 | 0.001 | 323869 | 38.5 | 40.3 | 4.6 | Decachlorobiphenyl |

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1 | | | |
|--------------------|----------------|-------------|------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 503318 | 503089 | -0.0 |
| Hexabromobiphenyl | 647433 | 953137 | 47.2 |
| Column 2 | | | |
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 336911 | 341704 | 1.4 |
| Hexabromobiphenyl | 382032 | 505860 | 32.4 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-JAN-2023
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | ZB35 Col | | | | | |
|--------------------------|-------|--------|--------|--------|----------|--------------------------|--------|--------|-------|-----------------|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount |
| Aroclor-1016 | 1 | 7.271 | 0.001 | 29901 | 159.9 | 1 | 7.255 | 0.000 | 32077 | 173.1 |
| Aroclor-1016 | 2 | 7.653 | 0.003 | 107333 | 173.3 | 2 | 7.851 | -0.000 | 71438 | 175.9 |
| Aroclor-1016 | 3 | 7.790 | 0.002 | 45013 | 157.9 | 3 | 8.051 | 0.001 | 29072 | 175.4 |
| Aroclor-1016 | 4 | 8.406 | 0.002 | 32958 | 179.8 | 4 | 8.306 | 0.001 | 21761 | 167.5 |
| Total CollAve (4 peaks): | | | | 167.7 | | Total Col2Ave (4 peaks): | | | | 173.0 RPD = 3 |
| Corrected Ave (3 peaks): | | | | 163.7 | | Corrected Ave (3 peaks): | | | | 172.0 RPD = 5 |
| Aroclor-1221 | 1 | 4.737 | 0.004 | 141 | 3.8 | 1 | --- | | | 0.0 |
| Aroclor-1221 | 2 | 6.133 | -0.001 | 3649 | 48.0 | 2 | 6.317 | 0.018 | 4290 | 78.2 |
| Aroclor-1221 | 3 | 6.384 | -0.000 | 21189 | 120.0 | 3 | 6.624 | 0.001 | 14613 | 157.7 |
| Total CollAve (3 peaks): | | | | 57.3 | | Col2Ave: <3 Quant Peaks | | | | |
| Aroclor-1232 | 1 | 4.737 | 0.003 | 141 | 6.1 | 1 | --- | | | 0.0 |
| Aroclor-1232 | 2 | 6.133 | -0.001 | 3649 | 69.7 | 2 | 7.255 | -0.002 | 32077 | 377.3 |
| Aroclor-1232 | 3 | 7.653 | -0.005 | 107333 | 410.2 | 3 | 7.851 | -0.004 | 71438 | 412.5 |
| Aroclor-1232 | 4 | 8.581 | -0.003 | 59617 | 532.3 | 4 | 8.713 | -0.000 | 22563 | 468.9 |
| Total CollAve (4 peaks): | | | | 254.6 | | Total Col2Ave (3 peaks): | | | | 419.6 RPD = 49* |
| Corrected Ave (3 peaks): | | | | 162.0 | | Corrected Ave: < 3 Peaks | | | | |
| Aroclor-1242 | 1 | 7.271 | 0.000 | 29901 | 194.1 | 1 | 7.255 | -0.001 | 32077 | 214.6 |
| Aroclor-1242 | 2 | 7.653 | -0.002 | 107333 | 212.9 | 2 | 7.851 | -0.002 | 71438 | 215.2 |
| Aroclor-1242 | 3 | 8.406 | -0.000 | 32958 | 220.0 | 3 | 9.156 | -0.004 | 27374 | 263.3 |
| Aroclor-1242 | 4 | 8.581 | -0.000 | 59617 | 263.5 | 4 | 9.581 | -0.006 | 34156 | 247.9 |
| Total CollAve (4 peaks): | | | | 222.6 | | Total Col2Ave (4 peaks): | | | | 235.3 RPD = 6 |
| Corrected Ave (3 peaks): | | | | 209.0 | | Corrected Ave (3 peaks): | | | | 225.9 RPD = 8 |
| Aroclor-1248 | 1 | 8.406 | 0.001 | 32958 | 131.0 | 1 | 8.306 | 0.001 | 21761 | 140.9 |
| Aroclor-1248 | 2 | 8.581 | 0.001 | 59617 | 185.7 | 2 | 8.713 | 0.001 | 22563 | 135.7 |
| Aroclor-1248 | 3 | 9.003 | 0.004 | 72557 | 118.2 | 3 | 9.156 | -0.000 | 27374 | 134.7 |
| Aroclor-1248 | 4 | 9.296 | 0.003 | 28122 | 92.5 | 4 | 9.581 | -0.001 | 34156 | 135.9 |
| Total CollAve (4 peaks): | | | | 131.8 | | Total Col2Ave (4 peaks): | | | | 136.8 RPD = 4 |
| Corrected Ave (3 peaks): | | | | 113.9 | | Corrected Ave (3 peaks): | | | | 135.5 RPD = 17 |
| Aroclor-1254 | 1 | 9.296 | -0.002 | 28122 | 54.8 | 1 | 9.448 | 0.000 | 11650 | 47.0 |
| Aroclor-1254 | 2 | 9.380 | 0.002 | 9292 | 42.4 | 2 | 9.968 | -0.001 | 7642 | 38.1 |
| Aroclor-1254 | 3 | 9.671 | 0.001 | 12871 | 39.2 | 3 | 10.120 | -0.001 | 16012 | 36.6 |
| Aroclor-1254 | 4 | 9.808 | -0.000 | 22113 | 34.4 | 4 | 10.378 | 0.007 | 16300 | 37.3 |
| Aroclor-1254 | 5 | 10.176 | -0.001 | 17771 | 42.5 | 5 | 10.572 | 0.004 | 4439 | 18.2 |
| Total CollAve (5 peaks): | | | | 42.7 | | Total Col2Ave (5 peaks): | | | | 35.5 RPD = 18 |
| Corrected Ave (4 peaks): | | | | 39.6 | | Corrected Ave (4 peaks): | | | | 32.6 RPD = 19 |
| Aroclor-1260 | 1 | 11.047 | 0.003 | 741 | 1.4 | 1 | 11.663 | 0.010 | 1794 | 4.9 |
| Aroclor-1260 | 2 | 11.366 | 0.006 | 379 | 0.7 | 2 | 11.923 | 0.005 | 1208 | 1.3 |
| Aroclor-1260 | 3 | 11.745 | 0.011 | 860 | 0.6 | 3 | 12.507 | 0.071 | 977 | 4.2 |
| Aroclor-1260 | 4 | 12.154 | 0.014 | 1536 | 2.1 | 4 | --- | | | 0.0 |
| Aroclor-1260 | 5 | --- | | | 0.0 | NS | --- | | | ---- |
| Total CollAve (4 peaks): | | | | 1.2 | | Total Col2Ave (3 peaks): | | | | 3.5 RPD = 99* |
| Corrected Ave (3 peaks): | | | | 0.9 | | Corrected Ave: < 3 Peaks | | | | |
| Aroclor-1262 | 1 | 10.836 | 0.004 | 10654 | 27.6 | 1 | 11.120 | -0.080 | 8071 | 16.3 |
| Aroclor-1262 | 2 | 12.154 | -0.092 | 1536 | 2.5 | 2 | 11.663 | 0.010 | 1794 | 4.3 |
| Aroclor-1262 | 3 | --- | | | 0.0 | 3 | 12.507 | 0.073 | 977 | 2.2 |
| Aroclor-1262 | 4 | 13.040 | 0.051 | 1739 | 2.9 | 4 | --- | | | 0.0 |
| Total CollAve (3 peaks): | | | | 11.0 | | Total Col2Ave (3 peaks): | | | | 7.6 RPD = 37 |
| Corrected Ave: < 3 Peaks | | | | | | Corrected Ave: < 3 Peaks | | | | |
| Aroclor-1268 | 1 | 12.154 | -0.091 | 1536 | 1.0 | 1 | 12.507 | 0.073 | 977 | 0.8 |
| Aroclor-1268 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 |
| Aroclor-1268 | 3 | 12.623 | -0.076 | 5080 | 3.9 | 3 | 12.894 | 0.001 | 98 | 0.1 |
| Aroclor-1268 | 4 | 13.501 | 0.012 | 2725 | 0.7 | 4 | 13.707 | -0.001 | 1566 | 0.5 |
| Total CollAve (3 peaks): | | | | 1.9 | | Total Col2Ave (3 peaks): | | | | 0.5 RPD = 120* |
| Corrected Ave: < 3 Peaks | | | | | | Corrected Ave: < 3 Peaks | | | | |

Total PCB Area Col1 (5.909 - 13.792) = 915887 Col1 Total PCB = 0.2 ppm*

Total PCB Area Col2 (5.787 - 14.020) = 575897 Col2 Total PCB = 0.2 ppm*

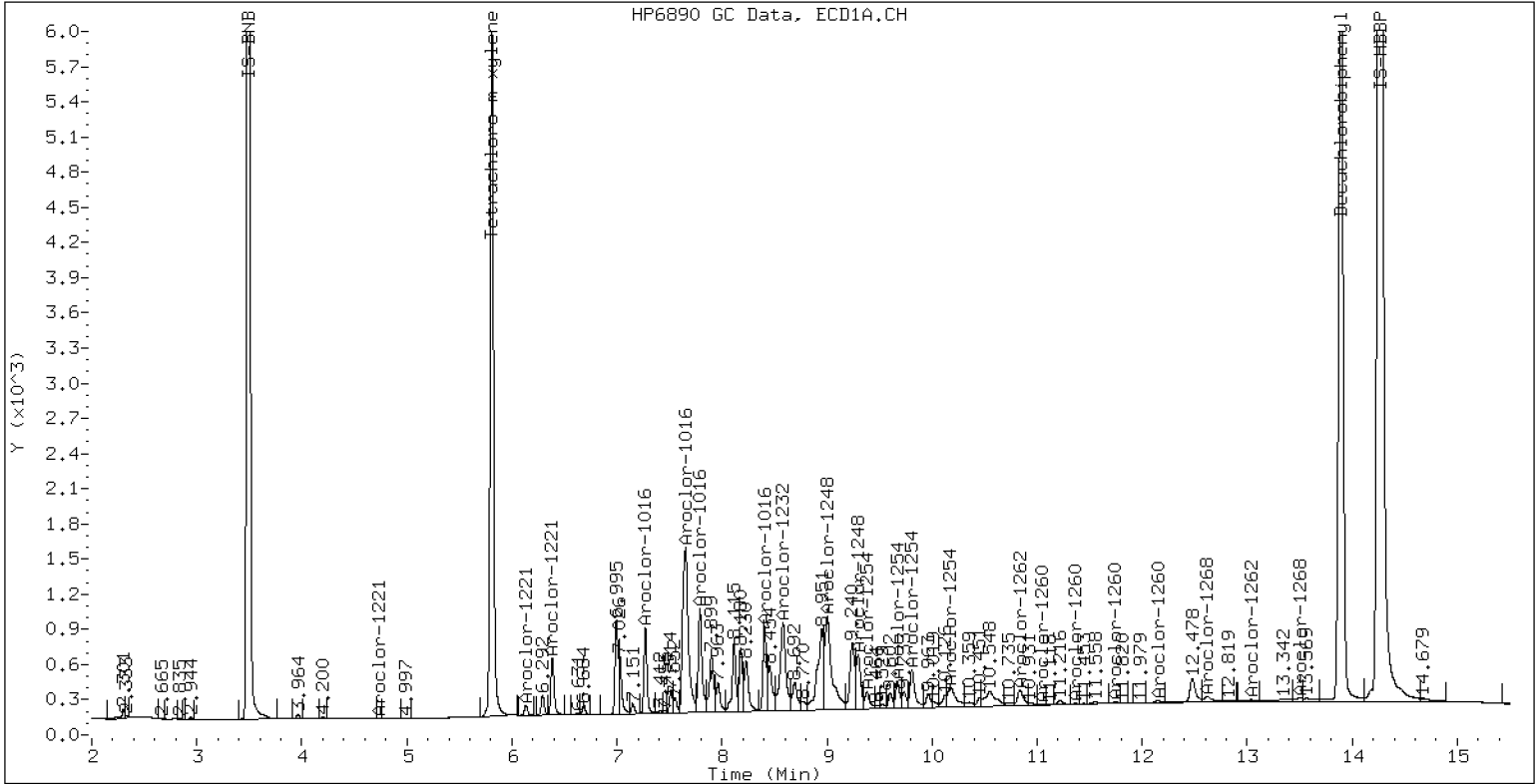
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 AR1242 SCV

24-JAN-2023 20:12, 2u1





**SECOND-SOURCE
CONTINUING CALIBRATION CHECK
EPA 8082A**

| | | | |
|----------------|----------------------------------|-------------------|------------------------|
| Laboratory: | <u>Analytical Resources, LLC</u> | SDG: | <u>23A0180</u> |
| Client: | <u>Anchor QEA, LLC</u> | Project: | <u>AOC5 MR Phase 1</u> |
| Instrument ID: | <u>ECD7</u> | Calibration: | <u>GA00061</u> |
| Lab File ID: | <u>01242326ECD7.D</u> | Calibration Date: | <u>01/24/2023</u> |
| Sequence: | <u>SLA0281</u> | Injection Date: | <u>01/24/23</u> |
| Lab Sample ID: | <u>SLA0281-SCV3</u> | Injection Time: | <u>20:33</u> |
| Sequence Name: | <u>AR1248SCV3</u> | | |

| COMPOUND | TYPE | CONC. (ug/L) | | RESPONSE FACTOR (RRF) | | | % DRIFT/DIFF | |
|----------------------------|------|--------------|------|-----------------------|-----------|-----|--------------|-------|
| | | STD | CCV | ICAL | CCV | MIN | CCV | LIMIT |
| Aroclor 1248 | A | 250.00 | 237 | 0.0592639 | 0.0563710 | | -5.1 | +/-20 |
| Aroclor 1248 [2C] | A | 250.00 | 231 | 0.0453673 | 0.0417577 | | -7.6 | +/-20 |
| Decachlorobiphenyl | A | 40.000 | 38.3 | 0.8555994 | 0.8184425 | | -4.3 | +/-20 |
| Tetrachlorometaxylene | A | 40.000 | 36.8 | 1.1307870 | 1.0389130 | | -8.1 | +/-20 |
| Decachlorobiphenyl [2C] | A | 40.000 | 39.6 | 1.2696430 | 1.2561970 | | -1.1 | +/-20 |
| Tetrachlorometaxylene [2C] | A | 40.000 | 36.5 | 1.0814980 | 0.9880182 | | -8.6 | +/-20 |

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230124.b/01242326ECD7.D
Data file 2: /230124.b/230124.b/01242326ECD7.D
Method: \\target\share\chem4\ecd7.i\230124.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1248 SCV
Client ID:
Injection Date: 24-JAN-2023 20:33
Report Date: 01/25/2023 10:53
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

| RT | ZB5 Col Shift | Response | RT | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag |
|--------|---------------|----------|--------|----------------|----------|------------|-------------|-----|----------------------|
| 5.809 | 0.000 | 263982 | 5.686 | -0.001 | 169991 | 36.8 | 36.5 | 0.6 | Tetrachloro-m-xylene |
| 13.892 | 0.001 | 400655 | 14.121 | 0.001 | 316171 | 38.3 | 39.6 | 3.4 | Decachlorobiphenyl |

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 503318 | 508189 | 1.0 |
| Hexabromobiphenyl | 647433 | 979067 | 51.2 |

| Standard Cpnd | Column 2 | | |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 336911 | 344105 | 2.1 |
| Hexabromobiphenyl | 382032 | 503378 | 31.8 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-JAN-2023
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | ZB35 Col | | | | | |
|--------------------------|-------|--------|--------|--------|----------|--------------------------|--------|--------|-------|----------------|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount |
| Aroclor-1016 | 1 | 7.271 | 0.001 | 14777 | 78.3 | 1 | 7.254 | -0.001 | 16100 | 86.3 |
| Aroclor-1016 | 2 | 7.655 | 0.004 | 70114 | 112.1 | 2 | 7.853 | 0.002 | 47184 | 115.4 |
| Aroclor-1016 | 3 | 7.794 | 0.006 | 27212 | 94.5 | 3 | 8.053 | 0.003 | 9427 | 56.5 |
| Aroclor-1016 | 4 | 8.406 | 0.003 | 59884 | 323.4 | 4 | 8.306 | 0.001 | 36680 | 280.3 |
| Total CollAve (4 peaks): | | | | 152.0 | | Total Col2Ave (4 peaks): | | | | 134.6 RPD = 12 |
| Corrected Ave (3 peaks): | | | | 94.9 | | Corrected Ave (3 peaks): | | | | 86.0 RPD = 10 |
| Aroclor-1221 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 |
| Aroclor-1221 | 2 | 6.133 | -0.000 | 591 | 7.7 | 2 | 6.323 | 0.025 | 1820 | 32.9 |
| Aroclor-1221 | 3 | 6.386 | 0.001 | 2453 | 13.8 | 3 | 6.627 | 0.004 | 1477 | 15.8 |
| CollAve: <3 Quant Peaks | | | | | | Col2Ave: <3 Quant Peaks | | | | |
| Aroclor-1232 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 |
| Aroclor-1232 | 2 | 6.133 | -0.000 | 591 | 11.2 | 2 | 7.254 | -0.002 | 16100 | 188.0 |
| Aroclor-1232 | 3 | 7.655 | -0.004 | 70114 | 265.3 | 3 | 7.853 | -0.001 | 47184 | 270.6 |
| Aroclor-1232 | 4 | 8.581 | -0.003 | 76286 | 674.3 | 4 | 8.714 | 0.000 | 39330 | 811.7 |
| Total CollAve (3 peaks): | | | | 316.9 | | Total Col2Ave (3 peaks): | | | | 423.4 RPD = 29 |
| Corrected Ave: < 3 Peaks | | | | | | Corrected Ave: < 3 Peaks | | | | |
| Aroclor-1242 | 1 | 7.271 | 0.000 | 14777 | 95.0 | 1 | 7.254 | -0.002 | 16100 | 107.0 |
| Aroclor-1242 | 2 | 7.655 | -0.001 | 70114 | 137.7 | 2 | 7.853 | 0.000 | 47184 | 141.2 |
| Aroclor-1242 | 3 | 8.406 | -0.000 | 59884 | 395.8 | 3 | 9.159 | -0.001 | 46988 | 448.9 |
| Aroclor-1242 | 4 | 8.581 | -0.000 | 76286 | 333.8 | 4 | 9.584 | -0.003 | 56615 | 408.1 |
| Total CollAve (4 peaks): | | | | 240.5 | | Total Col2Ave (4 peaks): | | | | 276.3 RPD = 14 |
| Corrected Ave (3 peaks): | | | | 188.8 | | Corrected Ave (3 peaks): | | | | 218.7 RPD = 15 |
| Aroclor-1248 | 1 | 8.406 | 0.001 | 59884 | 235.6 | 1 | 8.306 | 0.001 | 36680 | 235.8 |
| Aroclor-1248 | 2 | 8.581 | 0.001 | 76286 | 235.2 | 2 | 8.714 | 0.002 | 39330 | 234.9 |
| Aroclor-1248 | 3 | 9.000 | 0.001 | 148805 | 239.9 | 3 | 9.159 | 0.003 | 46988 | 229.7 |
| Aroclor-1248 | 4 | 9.295 | 0.001 | 73114 | 238.1 | 4 | 9.584 | 0.002 | 56615 | 223.8 |
| Total CollAve (4 peaks): | | | | 237.2 | | Total Col2Ave (4 peaks): | | | | 231.0 RPD = 3 |
| Corrected Ave (3 peaks): | | | | 236.3 | | Corrected Ave (3 peaks): | | | | 229.5 RPD = 3 |
| Aroclor-1254 | 1 | 9.295 | -0.004 | 73114 | 141.2 | 1 | 9.449 | 0.001 | 20314 | 81.4 |
| Aroclor-1254 | 2 | 9.378 | 0.000 | 36561 | 165.3 | 2 | 9.970 | 0.000 | 18678 | 92.6 |
| Aroclor-1254 | 3 | 9.672 | 0.003 | 30736 | 92.6 | 3 | 10.124 | 0.003 | 35321 | 80.2 |
| Aroclor-1254 | 4 | 9.813 | 0.004 | 53537 | 82.3 | 4 | 10.387 | 0.015 | 35188 | 79.9 |
| Aroclor-1254 | 5 | 10.192 | 0.015 | 40119 | 94.9 | 5 | 10.575 | 0.006 | 7386 | 30.1 |
| Total CollAve (5 peaks): | | | | 115.3 | | Total Col2Ave (5 peaks): | | | | 72.9 RPD = 45* |
| Corrected Ave (4 peaks): | | | | 102.7 | | Corrected Ave (4 peaks): | | | | 67.9 RPD = 41* |
| Aroclor-1260 | 1 | 11.054 | 0.010 | 1868 | 3.4 | 1 | 11.664 | 0.011 | 2055 | 5.7 |
| Aroclor-1260 | 2 | 11.366 | 0.005 | 1375 | 2.4 | 2 | 11.926 | 0.009 | 1303 | 1.4 |
| Aroclor-1260 | 3 | 11.745 | 0.010 | 2137 | 1.4 | 3 | 12.439 | 0.003 | 395 | 1.7 |
| Aroclor-1260 | 4 | 12.147 | 0.008 | 1650 | 2.1 | 4 | 12.507 | 0.005 | 890 | 1.5 |
| Aroclor-1260 | 5 | 12.255 | 0.011 | 558 | 1.7 | NS | --- | | | ---- |
| Total CollAve (5 peaks): | | | | 2.2 | | Total Col2Ave (4 peaks): | | | | 2.6 RPD = 15 |
| Corrected Ave (4 peaks): | | | | 1.9 | | Corrected Ave (3 peaks): | | | | 1.5 RPD = 22 |
| Aroclor-1262 | 1 | 10.837 | 0.005 | 12736 | 32.2 | 1 | 11.122 | -0.078 | 7136 | 14.5 |
| Aroclor-1262 | 2 | 12.255 | 0.010 | 558 | 0.9 | 2 | 11.664 | 0.011 | 2055 | 4.9 |
| Aroclor-1262 | 3 | 12.327 | 0.006 | 596 | 0.9 | 3 | 12.439 | 0.004 | 395 | 0.9 |
| Aroclor-1262 | 4 | 12.996 | 0.007 | 1113 | 1.8 | 4 | 12.507 | 0.003 | 890 | 1.2 |
| Total CollAve (4 peaks): | | | | 8.9 | | Total Col2Ave (4 peaks): | | | | 5.4 RPD = 50* |
| Corrected Ave (3 peaks): | | | | 1.2 | | Corrected Ave (3 peaks): | | | | 2.3 RPD = 65* |
| Aroclor-1268 | 1 | 12.255 | 0.010 | 558 | 0.3 | 1 | 12.439 | 0.005 | 395 | 0.3 |
| Aroclor-1268 | 2 | 12.327 | 0.009 | 596 | 0.4 | 2 | 12.507 | 0.005 | 890 | 0.7 |
| Aroclor-1268 | 3 | 12.706 | 0.007 | 1161 | 0.9 | 3 | 12.896 | 0.003 | 166 | 0.2 |
| Aroclor-1268 | 4 | 13.504 | 0.016 | 3330 | 0.8 | 4 | 13.717 | 0.009 | 469 | 0.1 |
| Total CollAve (4 peaks): | | | | 0.6 | | Total Col2Ave (4 peaks): | | | | 0.3 RPD = 57* |
| Corrected Ave (3 peaks): | | | | 0.5 | | Corrected Ave (3 peaks): | | | | 0.2 RPD = 83* |

Total PCB Area Col1 (5.909 - 13.792) = 1230760 Col1 Total PCB = 0.2 ppm*

Total PCB Area Col2 (5.787 - 14.020) = 742749 Col2 Total PCB = 0.2 ppm*

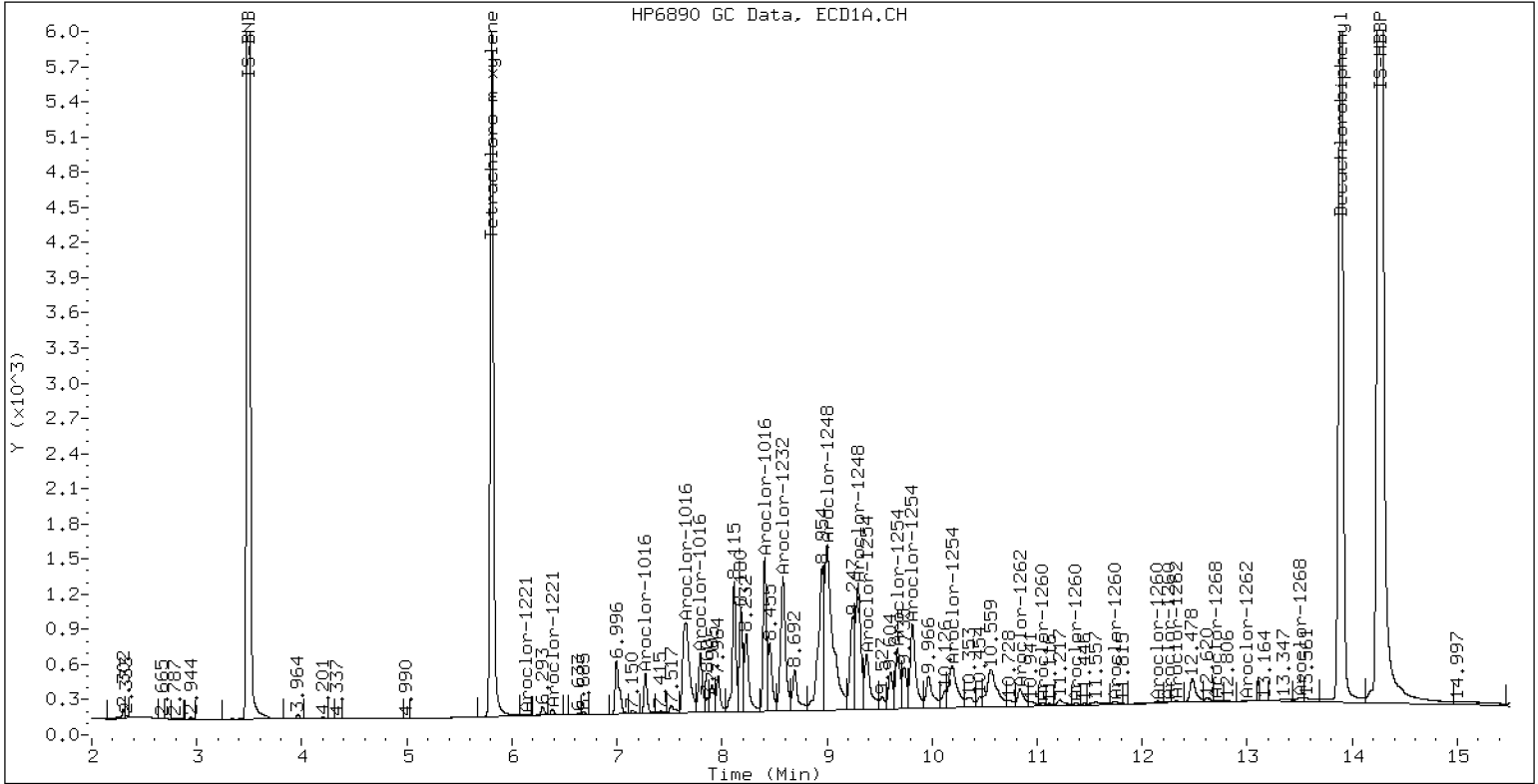
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 AR1248 SCV

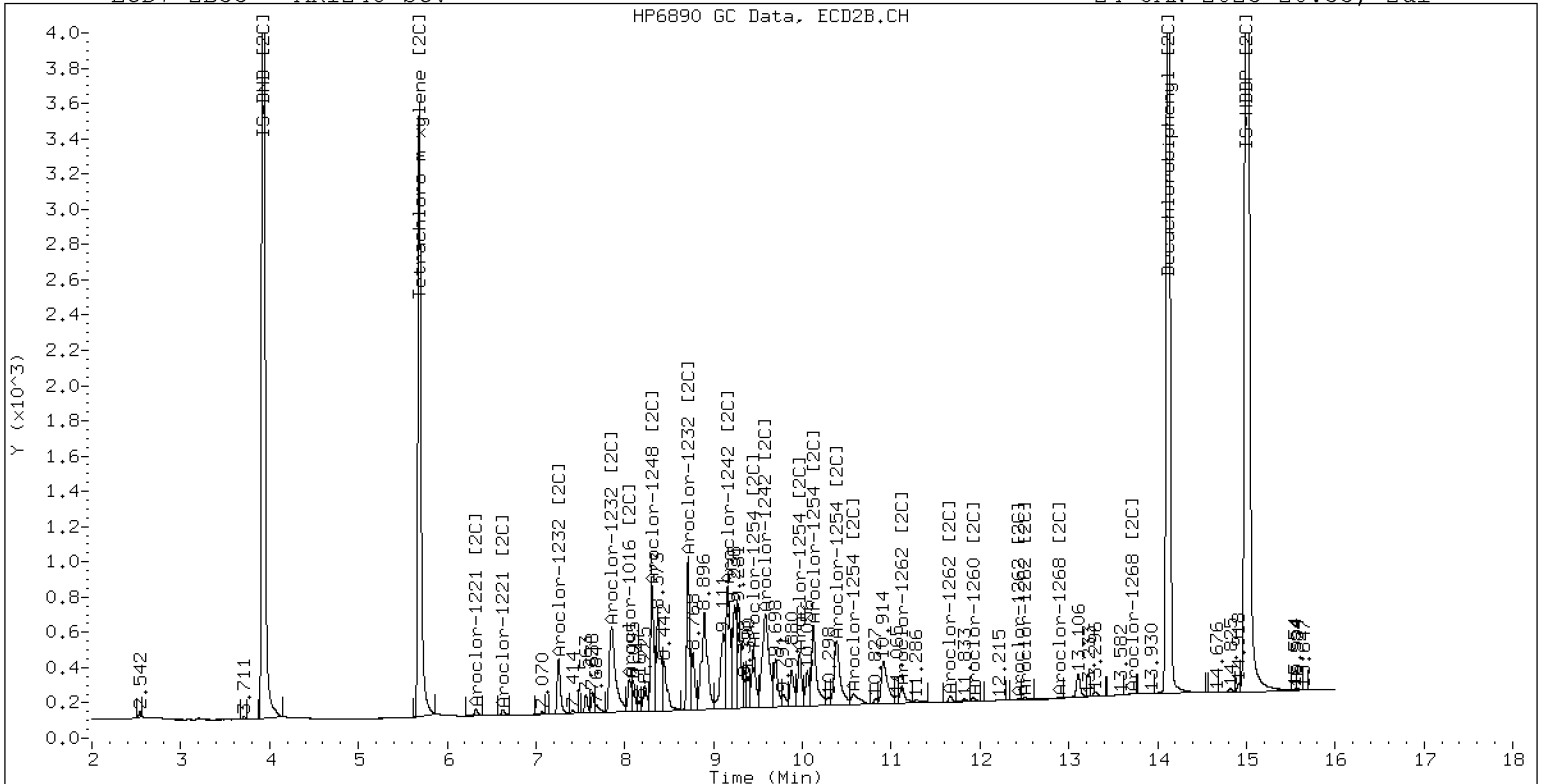
24-JAN-2023 20:33, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1248 SCV

24-JAN-2023 20:33, 2ul



ZB-35 Manual Integration: NO



**SECOND-SOURCE
CONTINUING CALIBRATION CHECK
EPA 8082A**

| | | | |
|----------------|----------------------------------|-------------------|------------------------|
| Laboratory: | <u>Analytical Resources, LLC</u> | SDG: | <u>23A0180</u> |
| Client: | <u>Anchor QEA, LLC</u> | Project: | <u>AOC5 MR Phase 1</u> |
| Instrument ID: | <u>ECD7</u> | Calibration: | <u>GA00061</u> |
| Lab File ID: | <u>01242327ECD7.D</u> | Calibration Date: | <u>01/24/2023</u> |
| Sequence: | <u>SLA0281</u> | Injection Date: | <u>01/24/23</u> |
| Lab Sample ID: | <u>SLA0281-SCV4</u> | Injection Time: | <u>20:54</u> |
| Sequence Name: | <u>AR1254SCV4</u> | | |

| COMPOUND | TYPE | CONC. (ug/L) | | RESPONSE FACTOR (RRF) | | | % DRIFT/DIFF | |
|----------------------------|------|--------------|------|-----------------------|-----------|-----|--------------|-------|
| | | STD | CCV | ICAL | CCV | MIN | CCV | LIMIT |
| Aroclor 1254 | A | 250.00 | 221 | 0.0675033 | 0.0594048 | | -11.7 | +/-20 |
| Aroclor 1254 [2C] | A | 250.00 | 227 | 0.0733219 | 0.0662023 | | -9.4 | +/-20 |
| Decachlorobiphenyl | A | 40.000 | 37.1 | 0.8555994 | 0.7930764 | | -7.3 | +/-20 |
| Tetrachlorometaxylene | A | 40.000 | 36.7 | 1.1307870 | 1.0364220 | | -8.3 | +/-20 |
| Decachlorobiphenyl [2C] | A | 40.000 | 39.5 | 1.2696430 | 1.2551640 | | -1.1 | +/-20 |
| Tetrachlorometaxylene [2C] | A | 40.000 | 36.6 | 1.0814980 | 0.9904044 | | -8.4 | +/-20 |

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230124.b/01242327ECD7.D
Data file 2: /230124.b/230124.b/01242327ECD7.D
Method: \\target\share\chem4\ecd7.i\230124.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1254 SCV
Client ID:
Injection Date: 24-JAN-2023 20:54
Report Date: 01/25/2023 10:53
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

| ZB5 Col | | ZB35 Col | | | ZB5 | ZB35 | RPD | Compound/Flag | |
|---------|--------|----------|--------|--------|----------|--------|------|---------------|----------------------|
| RT | Shift | Response | RT | Shift | Response | on col | | | on col |
| 5.809 | -0.000 | 261398 | 5.686 | -0.001 | 169839 | 36.7 | 36.6 | 0.1 | Tetrachloro-m-xylene |
| 13.892 | 0.001 | 383983 | 14.121 | 0.001 | 323233 | 37.1 | 39.5 | 6.4 | Decachlorobiphenyl |

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1 | | | |
|--------------------|----------------|-------------|------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 503318 | 504424 | 0.2 |
| Hexabromobiphenyl | 647433 | 968338 | 49.6 |
| Column 2 | | | |
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 336911 | 342969 | 1.8 |
| Hexabromobiphenyl | 382032 | 515045 | 34.8 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-JAN-2023
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | | ZB35 Col | | | | | |
|--------------------------|-------|--------|--------|--------|---|----------|--------|--------|-------|------------|--|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount | |
| Aroclor-1016 | 1 | 7.273 | 0.003 | 320 | 1.7 | 1 | 7.258 | 0.003 | 332 | 1.8 | |
| Aroclor-1016 | 2 | 7.658 | 0.008 | 991 | 1.6 | 2 | --- | | | 0.0 | |
| Aroclor-1016 | 3 | 7.795 | 0.007 | 662 | 2.3 | 3 | 8.097 | 0.047 | 515 | 3.1 | |
| Aroclor-1016 | 4 | 8.408 | 0.005 | 21378 | 116.3 | 4 | 8.307 | 0.002 | 20446 | 156.8 | |
| Total CollAve (4 peaks): | | | | 30.5 | Total Col2Ave (3 peaks): | | | | 53.9 | RPD = 55* | |
| Corrected Ave (3 peaks): | | | | 1.9 | Corrected Ave: < 3 Peaks | | | | | | |
| Aroclor-1221 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 | |
| Aroclor-1221 | 2 | --- | | | 0.0 | 2 | 6.325 | 0.026 | 1749 | 31.7 | |
| Aroclor-1221 | 3 | --- | | | 0.0 | 3 | 6.633 | 0.011 | 321 | 3.5 | |
| CollAve: <3 Quant Peaks | | | | | Col2Ave: <3 Quant Peaks | | | | | | |
| Aroclor-1232 | 1 | --- | | | 0.0 | 1 | --- | | | 0.0 | |
| Aroclor-1232 | 2 | --- | | | 0.0 | 2 | 7.258 | 0.001 | 332 | 3.9 | |
| Aroclor-1232 | 3 | 7.658 | -0.000 | 991 | 3.8 | 3 | --- | | | 0.0 | |
| Aroclor-1232 | 4 | 8.587 | 0.003 | 8887 | 79.1 | 4 | 8.715 | 0.001 | 14030 | 290.5 | |
| CollAve: <3 Quant Peaks | | | | | Col2Ave: <3 Quant Peaks | | | | | | |
| Aroclor-1242 | 1 | 7.273 | 0.002 | 320 | 2.1 | 1 | 7.258 | 0.002 | 332 | 2.2 | |
| Aroclor-1242 | 2 | 7.658 | 0.003 | 991 | 2.0 | 2 | --- | | | 0.0 | |
| Aroclor-1242 | 3 | 8.408 | 0.002 | 21378 | 142.3 | 3 | 9.164 | 0.004 | 26593 | 254.9 | |
| Aroclor-1242 | 4 | 8.587 | 0.006 | 8887 | 39.2 | 4 | 9.543 | -0.043 | 34385 | 248.7 | |
| Total CollAve (4 peaks): | | | | 46.4 | Total Col2Ave (3 peaks): | | | | 168.6 | RPD = 114* | |
| Corrected Ave (3 peaks): | | | | 14.4 | Corrected Ave: < 3 Peaks | | | | | | |
| Aroclor-1248 | 1 | 8.408 | 0.003 | 21378 | 84.7 | 1 | 8.307 | 0.001 | 20446 | 131.9 | |
| Aroclor-1248 | 2 | 8.587 | 0.007 | 8887 | 27.6 | 2 | 8.715 | 0.003 | 14030 | 84.1 | |
| Aroclor-1248 | 3 | 8.995 | -0.004 | 110289 | 179.1 | 3 | 9.164 | 0.007 | 26593 | 130.4 | |
| Aroclor-1248 | 4 | 9.300 | 0.007 | 113143 | 371.2 | 4 | 9.543 | -0.038 | 34385 | 136.4 | |
| Total CollAve (4 peaks): | | | | 165.7 | Total Col2Ave (4 peaks): | | | | 120.7 | RPD = 31 | |
| Corrected Ave (3 peaks): | | | | 97.2 | Corrected Ave (3 peaks): 115.5 RPD = 17 | | | | | | |
| Aroclor-1254 | 1 | 9.300 | 0.002 | 113143 | 220.1 | 1 | 9.449 | 0.001 | 56453 | 226.9 | |
| Aroclor-1254 | 2 | 9.379 | 0.001 | 49468 | 225.4 | 2 | 9.970 | 0.001 | 45325 | 225.4 | |
| Aroclor-1254 | 3 | 9.671 | 0.002 | 72811 | 221.0 | 3 | 10.122 | 0.002 | 97044 | 221.2 | |
| Aroclor-1254 | 4 | 9.811 | 0.002 | 140530 | 217.7 | 4 | 10.374 | 0.002 | 98778 | 225.2 | |
| Aroclor-1254 | 5 | 10.182 | 0.005 | 92254 | 219.8 | 5 | 10.570 | 0.001 | 57171 | 234.0 | |
| Total CollAve (5 peaks): | | | | 220.8 | Total Col2Ave (5 peaks): | | | | 226.5 | RPD = 3 | |
| Corrected Ave (4 peaks): | | | | 219.7 | Corrected Ave (4 peaks): 224.7 RPD = 2 | | | | | | |
| Aroclor-1260 | 1 | 11.045 | 0.002 | 8960 | 16.5 | 1 | 11.661 | 0.008 | 26985 | 72.6 | |
| Aroclor-1260 | 2 | 11.364 | 0.004 | 9237 | 16.5 | 2 | 11.923 | 0.006 | 19882 | 21.2 | |
| Aroclor-1260 | 3 | 11.741 | 0.007 | 21268 | 14.5 | 3 | 12.505 | 0.069 | 13190 | 56.3 | |
| Aroclor-1260 | 4 | 12.146 | 0.007 | 19041 | 25.1 | 4 | --- | | | 0.0 | |
| Aroclor-1260 | 5 | 12.321 | 0.077 | 1835 | 5.5 | NS | --- | | | --- | |
| Total CollAve (5 peaks): | | | | 15.6 | Total Col2Ave (3 peaks): | | | | 50.0 | RPD = 105* | |
| Corrected Ave (4 peaks): | | | | 13.3 | Corrected Ave: < 3 Peaks | | | | | | |
| Aroclor-1262 | 1 | 10.832 | 0.000 | 157590 | 402.4 | 1 | 11.119 | -0.081 | 92414 | 183.3 | |
| Aroclor-1262 | 2 | 12.321 | 0.075 | 1835 | 3.0 | 2 | 11.661 | 0.008 | 26985 | 63.0 | |
| Aroclor-1262 | 3 | --- | | | 0.0 | 3 | 12.505 | 0.071 | 13190 | 28.9 | |
| Aroclor-1262 | 4 | 12.995 | 0.006 | 843 | 1.4 | 4 | --- | | | 0.0 | |
| Total CollAve (3 peaks): | | | | 135.6 | Total Col2Ave (3 peaks): | | | | 91.7 | RPD = 39 | |
| Corrected Ave: < 3 Peaks | | | | | Corrected Ave: < 3 Peaks | | | | | | |
| Aroclor-1268 | 1 | 12.321 | 0.076 | 1835 | 1.1 | 1 | 12.505 | 0.072 | 13190 | 11.0 | |
| Aroclor-1268 | 2 | --- | | | 0.0 | 2 | --- | | | 0.0 | |
| Aroclor-1268 | 3 | 12.720 | 0.021 | 1314 | 1.0 | 3 | 12.891 | -0.002 | 169 | 0.2 | |
| Aroclor-1268 | 4 | 13.504 | 0.016 | 1169 | 0.3 | 4 | 13.706 | -0.002 | 1132 | 0.3 | |
| Total CollAve (3 peaks): | | | | 0.8 | Total Col2Ave (3 peaks): | | | | 3.8 | RPD = 130* | |
| Corrected Ave: < 3 Peaks | | | | | Corrected Ave: < 3 Peaks | | | | | | |

Total PCB Area Col1 (5.909 - 13.792) = 1507519 Col1 Total PCB = 0.3 ppm*

Total PCB Area Col2 (5.787 - 14.020) = 951047 Col2 Total PCB = 0.3 ppm*

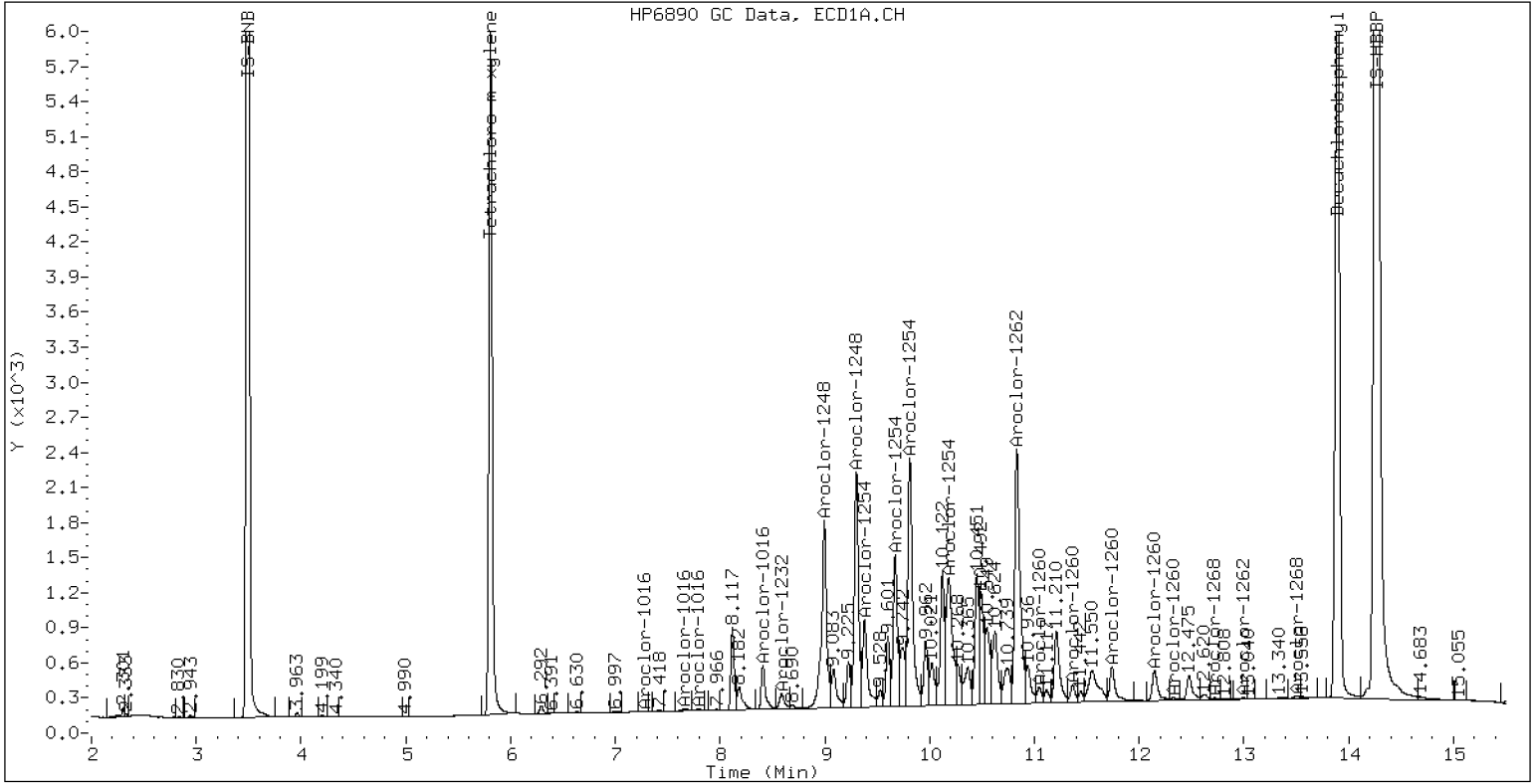
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 AR1254 SCV

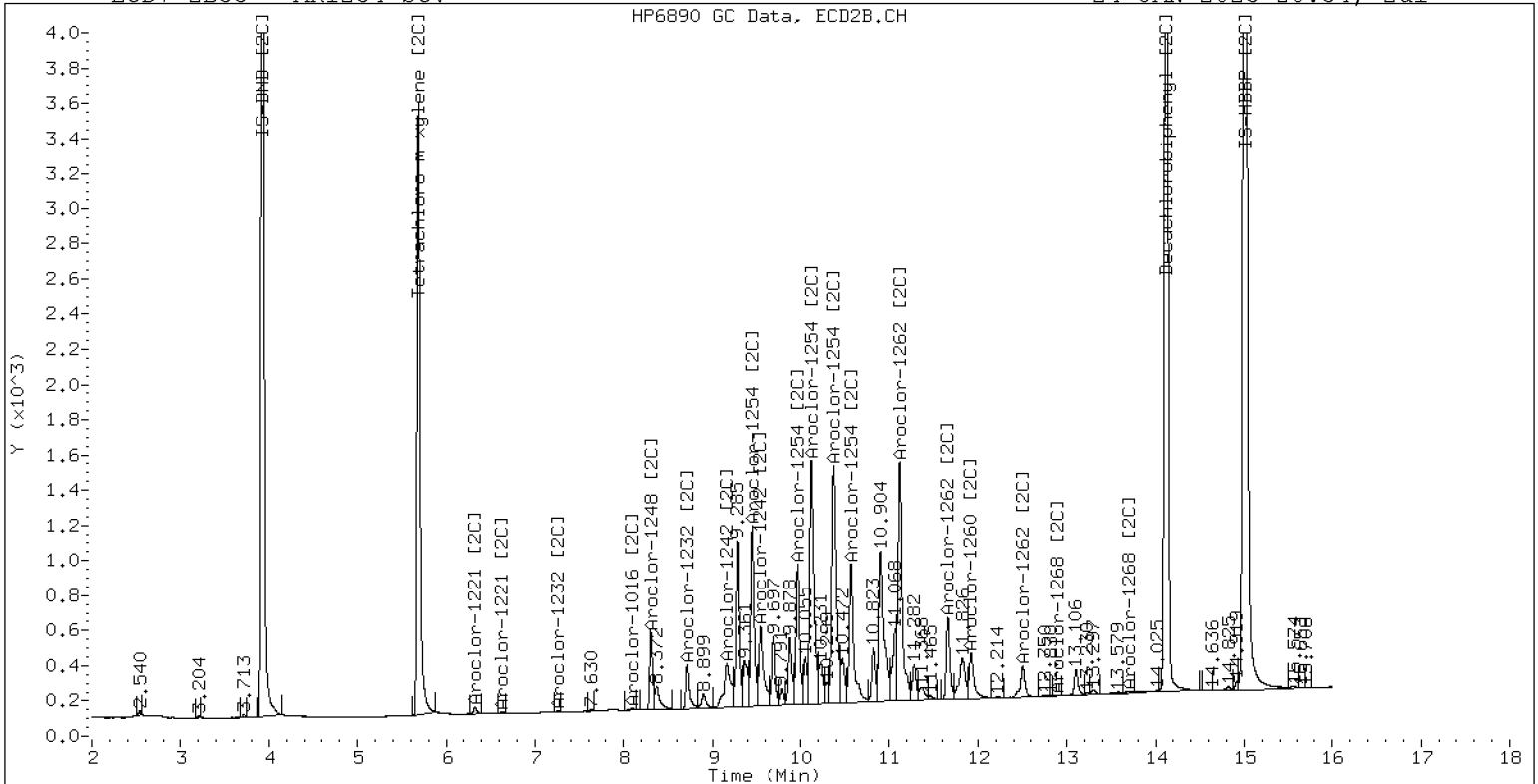
24-JAN-2023 20:54, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1254 SCV

24-JAN-2023 20:54, 2ul





**SECOND-SOURCE
CONTINUING CALIBRATION CHECK
EPA 8082A**

| | | | |
|----------------|----------------------------------|-------------------|------------------------|
| Laboratory: | <u>Analytical Resources, LLC</u> | SDG: | <u>23A0180</u> |
| Client: | <u>Anchor QEA, LLC</u> | Project: | <u>AOC5 MR Phase 1</u> |
| Instrument ID: | <u>ECD7</u> | Calibration: | <u>GA00061</u> |
| Lab File ID: | <u>01242328ECD7.D</u> | Calibration Date: | <u>01/24/2023</u> |
| Sequence: | <u>SLA0281</u> | Injection Date: | <u>01/24/23</u> |
| Lab Sample ID: | <u>SLA0281-SCV5</u> | Injection Time: | <u>21:15</u> |
| Sequence Name: | <u>AR2162SCV5</u> | | |

| COMPOUND | TYPE | CONC. (ug/L) | | RESPONSE FACTOR (RRF) | | | % DRIFT/DIFF | |
|----------------------------|------|--------------|------|-----------------------|-----------|-----|--------------|-------|
| | | STD | CCV | ICAL | CCV | MIN | CCV | LIMIT |
| Aroclor 1221 | A | 250.00 | 228 | 0.0153579 | 0.0138791 | | -8.8 | +/-20 |
| Aroclor 1221 [2C] | A | 250.00 | 239 | 0.0134687 | 0.0127460 | | -4.5 | +/-20 |
| Decachlorobiphenyl | A | 40.000 | 37.5 | 0.8555994 | 0.8010750 | | -6.4 | +/-20 |
| Tetrachlorometaxylene | A | 40.000 | 37.3 | 1.1307870 | 1.0541060 | | -6.8 | +/-20 |
| Decachlorobiphenyl [2C] | A | 40.000 | 39.5 | 1.2696430 | 1.2528610 | | -1.3 | +/-20 |
| Tetrachlorometaxylene [2C] | A | 40.000 | 37.2 | 1.0814980 | 1.0047210 | | -7.1 | +/-20 |

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230124.b/01242328ECD7.D
Data file 2: /230124.b/230124.b/01242328ECD7.D
Method: \\target\share\chem4\ecd7.i\230124.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR2162 SCV
Client ID:
Injection Date: 24-JAN-2023 21:15
Report Date: 01/25/2023 10:53
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

| ZB5 Col | | ZB35 Col | | | ZB5 | ZB35 | RPD | Compound/Flag | |
|---------|--------|----------|--------|--------|----------|--------|------|---------------|----------------------|
| RT | Shift | Response | RT | Shift | Response | on col | | | on col |
| 5.809 | -0.000 | 265357 | 5.685 | -0.001 | 170984 | 37.3 | 37.2 | 0.3 | Tetrachloro-m-xylene |
| 13.891 | -0.001 | 397332 | 14.119 | -0.001 | 326981 | 37.5 | 39.5 | 5.3 | Decachlorobiphenyl |

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 503318 | 503473 | 0.0 |
| Hexabromobiphenyl | 647433 | 991997 | 53.2 |

| Standard Cpnd | Column 2 | | |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 336911 | 340361 | 1.0 |
| Hexabromobiphenyl | 382032 | 521975 | 36.6 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-JAN-2023
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | | ZB35 Col | | | | | |
|--------------------------|-------|--------|--------|--------|--------------------------|----------|--------|--------|--------|------------|--|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount | |
| Aroclor-1016 | 1 | 7.272 | 0.002 | 5326 | 28.5 | 1 | 7.257 | 0.002 | 6708 | 36.3 | |
| Aroclor-1016 | 2 | 7.664 | 0.013 | 11965 | 19.3 | 2 | 7.856 | 0.005 | 7233 | 17.9 | |
| Aroclor-1016 | 3 | 7.797 | 0.009 | 6015 | 21.1 | 3 | 8.058 | 0.008 | 2997 | 18.2 | |
| Aroclor-1016 | 4 | 8.410 | 0.006 | 3771 | 20.6 | 4 | 8.308 | 0.002 | 2065 | 16.0 | |
| Total CollAve (4 peaks): | | | | 22.4 | Total Col2Ave (4 peaks): | | | | 22.1 | RPD = 1 | |
| Corrected Ave (3 peaks): | | | | 20.3 | Corrected Ave (3 peaks): | | | | 17.3 | RPD = 16 | |
| | | | | | | | | | | | |
| Aroclor-1221 | 1 | 4.732 | -0.000 | 9097 | 244.5 | 1 | 4.959 | -0.000 | 6157 | 246.8 | |
| Aroclor-1221 | 2 | 6.133 | -0.000 | 16114 | 211.8 | 2 | 6.297 | -0.001 | 12807 | 234.2 | |
| Aroclor-1221 | 3 | 6.384 | 0.000 | 40299 | 228.1 | 3 | 6.622 | -0.000 | 21707 | 235.2 | |
| Total CollAve (3 peaks): | | | | 228.1 | Total Col2Ave (3 peaks): | | | | 238.7 | RPD = 5 | |
| Corrected Ave: < 3 Peaks | | | | | Corrected Ave: < 3 Peaks | | | | | | |
| | | | | | | | | | | | |
| Aroclor-1232 | 1 | 4.732 | -0.001 | 9097 | 391.6 | 1 | 4.959 | -0.001 | 6157 | 406.9 | |
| Aroclor-1232 | 2 | 6.133 | 0.000 | 16114 | 307.8 | 2 | 7.257 | 0.000 | 6708 | 79.2 | |
| Aroclor-1232 | 3 | 7.664 | 0.005 | 11965 | 45.7 | 3 | 7.856 | 0.001 | 7233 | 41.9 | |
| Aroclor-1232 | 4 | 8.589 | 0.004 | 2837 | 25.3 | 4 | 8.716 | 0.002 | 1869 | 39.0 | |
| Total CollAve (4 peaks): | | | | 192.6 | Total Col2Ave (4 peaks): | | | | 141.7 | RPD = 30 | |
| Corrected Ave (3 peaks): | | | | 126.3 | Corrected Ave (3 peaks): | | | | 53.4 | RPD = 81* | |
| | | | | | | | | | | | |
| Aroclor-1242 | 1 | 7.272 | 0.001 | 5326 | 34.5 | 1 | 7.257 | 0.001 | 6708 | 45.1 | |
| Aroclor-1242 | 2 | 7.664 | 0.008 | 11965 | 23.7 | 2 | 7.856 | 0.003 | 7233 | 21.9 | |
| Aroclor-1242 | 3 | 8.410 | 0.004 | 3771 | 25.2 | 3 | 9.169 | 0.009 | 1956 | 18.9 | |
| Aroclor-1242 | 4 | 8.589 | 0.007 | 2837 | 12.5 | 4 | 9.544 | -0.043 | 5978 | 43.6 | |
| Total CollAve (4 peaks): | | | | 24.0 | Total Col2Ave (4 peaks): | | | | 32.3 | RPD = 30 | |
| Corrected Ave (3 peaks): | | | | 20.5 | Corrected Ave (3 peaks): | | | | 28.1 | RPD = 31 | |
| | | | | | | | | | | | |
| Aroclor-1248 | 1 | 8.410 | 0.005 | 3771 | 15.0 | 1 | 8.308 | 0.002 | 2065 | 13.4 | |
| Aroclor-1248 | 2 | 8.589 | 0.008 | 2837 | 8.8 | 2 | 8.716 | 0.004 | 1869 | 11.3 | |
| Aroclor-1248 | 3 | 8.997 | -0.002 | 36022 | 58.6 | 3 | 9.169 | 0.012 | 1956 | 9.7 | |
| Aroclor-1248 | 4 | 9.305 | 0.011 | 30853 | 101.4 | 4 | 9.544 | -0.038 | 5978 | 23.9 | |
| Total CollAve (4 peaks): | | | | 46.0 | Total Col2Ave (4 peaks): | | | | 14.6 | RPD = 104* | |
| Corrected Ave (3 peaks): | | | | 27.5 | Corrected Ave (3 peaks): | | | | 11.5 | RPD = 82* | |
| | | | | | | | | | | | |
| Aroclor-1254 | 1 | 9.305 | 0.006 | 30853 | 60.1 | 1 | 9.451 | 0.003 | 17617 | 71.3 | |
| Aroclor-1254 | 2 | 9.376 | -0.002 | 5370 | 24.5 | 2 | 9.970 | 0.001 | 2849 | 14.3 | |
| Aroclor-1254 | 3 | 9.673 | 0.003 | 5543 | 16.9 | 3 | 10.146 | 0.026 | 88151 | 202.5 | |
| Aroclor-1254 | 4 | 9.810 | 0.002 | 14544 | 22.6 | 4 | 10.370 | -0.002 | 107074 | 245.9 | |
| Aroclor-1254 | 5 | 10.121 | -0.056 | 180016 | 429.7 | 5 | 10.567 | -0.002 | 141725 | 584.5 | |
| Total CollAve (5 peaks): | | | | 110.8 | Total Col2Ave (5 peaks): | | | | 223.7 | RPD = 68* | |
| Corrected Ave (4 peaks): | | | | 31.0 | Corrected Ave (4 peaks): | | | | 133.5 | RPD = 125* | |
| | | | | | | | | | | | |
| Aroclor-1260 | 1 | 11.044 | 0.001 | 310806 | 558.4 | 1 | 11.652 | -0.001 | 187682 | 498.4 | |
| Aroclor-1260 | 2 | 11.361 | 0.000 | 263161 | 460.0 | 2 | 11.917 | -0.000 | 450612 | 473.0 | |
| Aroclor-1260 | 3 | 11.735 | 0.000 | 629605 | 418.0 | 3 | 12.433 | -0.003 | 206042 | 867.7 | |
| Aroclor-1260 | 4 | 12.141 | 0.001 | 210012 | 269.9 | 4 | 12.502 | -0.000 | 326457 | 529.5 | |
| Aroclor-1260 | 5 | 12.244 | -0.000 | 268425 | 791.3 | NS | --- | | | ---- | |
| Total CollAve (5 peaks): | | | | 499.5 | Total Col2Ave (4 peaks): | | | | 592.1 | RPD = 17 | |
| Corrected Ave (4 peaks): | | | | 426.6 | Corrected Ave (3 peaks): | | | | 500.3 | RPD = 16 | |
| | | | | | | | | | | | |
| Aroclor-1262 | 1 | 10.828 | -0.005 | 171094 | 426.5 | 1 | 11.200 | 0.000 | 219731 | 430.1 | |
| Aroclor-1262 | 2 | 12.244 | -0.002 | 268425 | 423.9 | 2 | 11.652 | -0.001 | 187682 | 432.0 | |
| Aroclor-1262 | 3 | 12.319 | -0.002 | 291581 | 424.2 | 3 | 12.433 | -0.001 | 206042 | 445.4 | |
| Aroclor-1262 | 4 | 12.988 | -0.001 | 257735 | 411.5 | 4 | 12.502 | -0.002 | 326457 | 440.6 | |
| Total CollAve (4 peaks): | | | | 421.5 | Total Col2Ave (4 peaks): | | | | 437.0 | RPD = 4 | |
| Corrected Ave (3 peaks): | | | | 419.8 | Corrected Ave (3 peaks): | | | | 434.3 | RPD = 3 | |
| | | | | | | | | | | | |
| Aroclor-1268 | 1 | 12.244 | -0.001 | 268425 | 163.8 | 1 | 12.433 | -0.000 | 206042 | 169.0 | |
| Aroclor-1268 | 2 | 12.319 | 0.001 | 291581 | 178.4 | 2 | 12.502 | 0.000 | 326457 | 251.7 | |
| Aroclor-1268 | 3 | 12.725 | 0.026 | 108693 | 80.3 | 3 | 12.892 | -0.001 | 10062 | 9.3 | |
| Aroclor-1268 | 4 | 13.486 | -0.003 | 95646 | 23.8 | 4 | 13.710 | 0.001 | 59437 | 17.8 | |
| Total CollAve (4 peaks): | | | | 111.6 | Total Col2Ave (4 peaks): | | | | 112.0 | RPD = 0 | |

Corrected Ave (3 peaks): 89.3 Corrected Ave (3 peaks): 65.4 RPD = 31

Total PCB Area Col1 (5.909 - 13.792) = 4409992 Col1 Total PCB = 0.8 ppm*

Total PCB Area Col2 (5.787 - 14.020) = 2874073 Col2 Total PCB = 0.8 ppm*

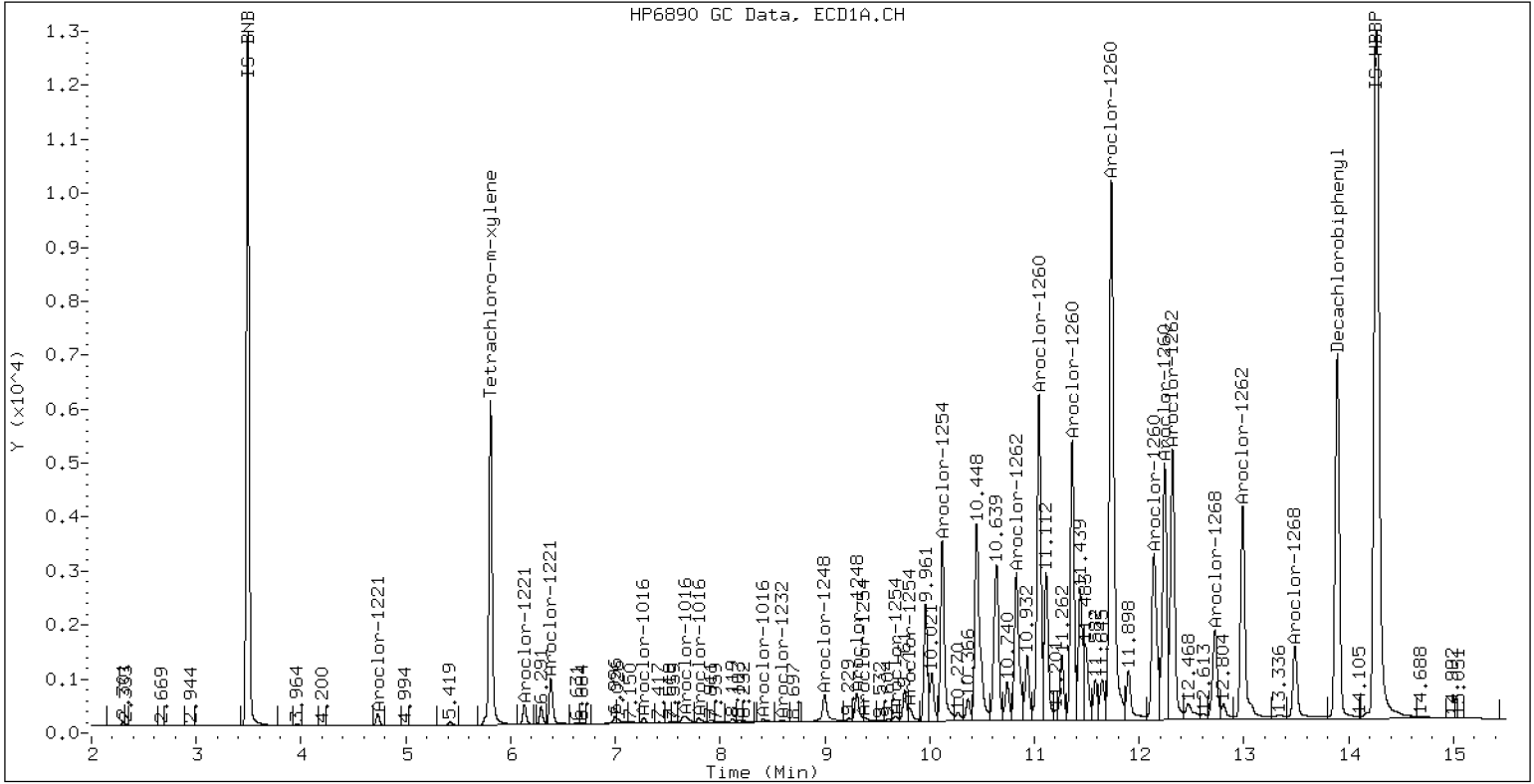
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 AR2162 SCV

24-JAN-2023 21:15, 2ul





**SECOND-SOURCE
CONTINUING CALIBRATION CHECK
EPA 8082A**

| | | | |
|----------------|----------------------------------|-------------------|------------------------|
| Laboratory: | <u>Analytical Resources, LLC</u> | SDG: | <u>23A0180</u> |
| Client: | <u>Anchor QEA, LLC</u> | Project: | <u>AOC5 MR Phase 1</u> |
| Instrument ID: | <u>ECD7</u> | Calibration: | <u>GA00061</u> |
| Lab File ID: | <u>01242329ECD7.D</u> | Calibration Date: | <u>01/24/2023</u> |
| Sequence: | <u>SLA0281</u> | Injection Date: | <u>01/24/23</u> |
| Lab Sample ID: | <u>SLA0281-SCV6</u> | Injection Time: | <u>21:36</u> |
| Sequence Name: | <u>AR3268SCV6</u> | | |

| COMPOUND | TYPE | CONC. (ug/L) | | RESPONSE FACTOR (RRF) | | | % DRIFT/DIFF | |
|----------------------------|------|--------------|------|-----------------------|-----------|-----|--------------|-------|
| | | STD | CCV | ICAL | CCV | MIN | CCV | LIMIT |
| Aroclor 1232 | A | 250.00 | 216 | 0.0178560 | 0.0160358 | | -13.7 | +/-20 |
| Aroclor 1232 [2C] | A | 250.00 | 239 | 0.0188178 | 0.0180429 | | -4.5 | +/-20 |
| Decachlorobiphenyl | A | 40.000 | 54.6 | 0.8555994 | 1.1682210 | | 36.5 | +/-20 |
| Tetrachlorometaxylene | A | 40.000 | 36.4 | 1.1307870 | 1.0284340 | | -9.1 | +/-20 |
| Decachlorobiphenyl [2C] | A | 40.000 | 57.9 | 1.2696430 | 1.8387740 | | 44.8 | +/-20 |
| Tetrachlorometaxylene [2C] | A | 40.000 | 36.3 | 1.0814980 | 0.9815176 | | -9.2 | +/-20 |

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230124.b/01242329ECD7.D
Data file 2: /230124.b/230124.b/01242329ECD7.D
Method: \\target\share\chem4\ecd7.i\230124.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR3268 SCV
Client ID:
Injection Date: 24-JAN-2023 21:36
Report Date: 01/25/2023 10:53
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

| RT | ZB5 Col Shift | Response | RT | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag |
|--------|---------------|----------|--------|----------------|----------|------------|-------------|-----|----------------------|
| 5.810 | 0.001 | 250455 | 5.687 | 0.000 | 162795 | 36.4 | 36.3 | 0.2 | Tetrachloro-m-xylene |
| 13.892 | 0.000 | 551946 | 14.120 | 0.000 | 461901 | 54.6 | 57.9 | 5.9 | Decachlorobiphenyl |

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 503318 | 487061 | -3.2 |
| Hexabromobiphenyl | 647433 | 944934 | 46.0 |

| Standard Cpnd | Column 2 | | |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 336911 | 331721 | -1.5 |
| Hexabromobiphenyl | 382032 | 502401 | 31.5 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-JAN-2023
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | ZB35 Col | | | | | |
|--------------------------|-------|--------|--------|--------|----------|--------------------------|--------|--------|--------|------------------|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount |
| Aroclor-1016 | 1 | 7.272 | 0.002 | 19363 | 107.0 | 1 | 7.256 | 0.001 | 19791 | 110.0 |
| Aroclor-1016 | 2 | 7.659 | 0.009 | 58630 | 97.8 | 2 | 7.856 | 0.005 | 40139 | 101.8 |
| Aroclor-1016 | 3 | 7.794 | 0.006 | 28286 | 102.5 | 3 | 8.055 | 0.005 | 17412 | 108.2 |
| Aroclor-1016 | 4 | 8.408 | 0.004 | 17373 | 97.9 | 4 | 8.308 | 0.003 | 11962 | 94.8 |
| Total CollAve (4 peaks): | | | | 101.3 | | Total Col2Ave (4 peaks): | | | | 103.7 RPD = 2 |
| Corrected Ave (3 peaks): | | | | 99.4 | | Corrected Ave (3 peaks): | | | | 101.6 RPD = 2 |
| | | | | | | | | | | |
| Aroclor-1221 | 1 | 4.735 | 0.002 | 5022 | 139.5 | 1 | 4.961 | 0.002 | 3409 | 140.2 |
| Aroclor-1221 | 2 | 6.134 | 0.001 | 8987 | 122.1 | 2 | 6.299 | 0.001 | 7677 | 144.1 |
| Aroclor-1221 | 3 | 6.385 | 0.001 | 29368 | 171.8 | 3 | 6.624 | 0.001 | 16198 | 180.1 |
| Total CollAve (3 peaks): | | | | 144.5 | | Total Col2Ave (3 peaks): | | | | 154.8 RPD = 7 |
| Corrected Ave: < 3 Peaks | | | | | | Corrected Ave: < 3 Peaks | | | | |
| | | | | | | | | | | |
| Aroclor-1232 | 1 | 4.735 | 0.002 | 5022 | 223.5 | 1 | 4.961 | 0.002 | 3409 | 231.1 |
| Aroclor-1232 | 2 | 6.134 | 0.001 | 8987 | 177.4 | 2 | 7.256 | -0.001 | 19791 | 239.8 |
| Aroclor-1232 | 3 | 7.659 | 0.001 | 58630 | 231.5 | 3 | 7.856 | 0.001 | 40139 | 238.8 |
| Aroclor-1232 | 4 | 8.585 | 0.000 | 24991 | 230.5 | 4 | 8.715 | 0.001 | 11476 | 245.7 |
| Total CollAve (4 peaks): | | | | 215.7 | | Total Col2Ave (4 peaks): | | | | 238.8 RPD = 10 |
| Corrected Ave (3 peaks): | | | | 210.5 | | Corrected Ave (3 peaks): | | | | 236.6 RPD = 12 |
| | | | | | | | | | | |
| Aroclor-1242 | 1 | 7.272 | 0.001 | 19363 | 129.8 | 1 | 7.256 | 0.000 | 19791 | 136.4 |
| Aroclor-1242 | 2 | 7.659 | 0.004 | 58630 | 120.1 | 2 | 7.856 | 0.002 | 40139 | 124.6 |
| Aroclor-1242 | 3 | 8.408 | 0.001 | 17373 | 119.8 | 3 | 9.166 | 0.006 | 11813 | 117.1 |
| Aroclor-1242 | 4 | 8.585 | 0.003 | 24991 | 114.1 | 4 | 9.595 | 0.009 | 16549 | 123.7 |
| Total CollAve (4 peaks): | | | | 121.0 | | Total Col2Ave (4 peaks): | | | | 125.4 RPD = 4 |
| Corrected Ave (3 peaks): | | | | 118.0 | | Corrected Ave (3 peaks): | | | | 121.8 RPD = 3 |
| | | | | | | | | | | |
| Aroclor-1248 | 1 | 8.408 | 0.002 | 17373 | 71.3 | 1 | 8.308 | 0.003 | 11962 | 79.8 |
| Aroclor-1248 | 2 | 8.585 | 0.005 | 24991 | 80.4 | 2 | 8.715 | 0.003 | 11476 | 71.1 |
| Aroclor-1248 | 3 | 9.001 | 0.002 | 67631 | 113.8 | 3 | 9.166 | 0.009 | 11813 | 59.9 |
| Aroclor-1248 | 4 | 9.293 | -0.001 | 30983 | 105.3 | 4 | 9.595 | 0.014 | 16549 | 67.9 |
| Total CollAve (4 peaks): | | | | 92.7 | | Total Col2Ave (4 peaks): | | | | 69.7 RPD = 28 |
| Corrected Ave (3 peaks): | | | | 85.7 | | Corrected Ave (3 peaks): | | | | 66.3 RPD = 26 |
| | | | | | | | | | | |
| Aroclor-1254 | 1 | 9.293 | -0.006 | 30983 | 62.4 | 1 | 9.451 | 0.003 | 3749 | 15.6 |
| Aroclor-1254 | 2 | 9.381 | 0.003 | 9071 | 42.8 | 2 | 9.974 | 0.005 | 2452 | 12.6 |
| Aroclor-1254 | 3 | 9.678 | 0.009 | 5199 | 16.3 | 3 | 10.131 | 0.010 | 4718 | 11.1 |
| Aroclor-1254 | 4 | 9.820 | 0.012 | 8864 | 14.2 | 4 | 10.389 | 0.018 | 4224 | 10.0 |
| Aroclor-1254 | 5 | 10.195 | 0.018 | 8085 | 19.9 | 5 | 10.573 | 0.004 | 1573 | 6.7 |
| Total CollAve (5 peaks): | | | | 31.1 | | Total Col2Ave (5 peaks): | | | | 11.2 RPD = 94* |
| Corrected Ave (4 peaks): | | | | 23.3 | | Corrected Ave (4 peaks): | | | | 10.1 RPD = 79* |
| | | | | | | | | | | |
| Aroclor-1260 | 1 | 11.050 | 0.006 | 66852 | 126.1 | 1 | 11.647 | -0.006 | 57235 | 157.9 |
| Aroclor-1260 | 2 | 11.366 | 0.006 | 6269 | 11.5 | 2 | 11.919 | 0.002 | 25368 | 27.7 |
| Aroclor-1260 | 3 | 11.741 | 0.007 | 41446 | 28.9 | 3 | 12.434 | -0.002 | 262014 | 1146.4 |
| Aroclor-1260 | 4 | 12.052 | -0.088 | 2691 | 3.6 | 4 | 12.502 | -0.000 | 277060 | 466.9 |
| Aroclor-1260 | 5 | 12.245 | 0.002 | 349286 | 1080.9 | NS | --- | | | ---- |
| Total CollAve (5 peaks): | | | | 250.2 | | Total Col2Ave (4 peaks): | | | | 449.7 RPD = 57* |
| Corrected Ave (4 peaks): | | | | 42.5 | | Corrected Ave (3 peaks): | | | | 217.5 RPD = 135* |
| | | | | | | | | | | |
| Aroclor-1262 | 1 | 10.838 | 0.006 | 4520 | 11.8 | 1 | 11.203 | 0.003 | 40576 | 82.5 |
| Aroclor-1262 | 2 | 12.245 | -0.000 | 349286 | 579.1 | 2 | 11.647 | -0.006 | 57235 | 136.9 |
| Aroclor-1262 | 3 | 12.318 | -0.002 | 349715 | 534.1 | 3 | 12.434 | -0.001 | 262014 | 588.4 |
| Aroclor-1262 | 4 | 12.988 | -0.001 | 141905 | 237.8 | 4 | 12.502 | -0.002 | 277060 | 388.5 |
| Total CollAve (4 peaks): | | | | 340.7 | | Total Col2Ave (4 peaks): | | | | 299.1 RPD = 13 |
| Corrected Ave (3 peaks): | | | | 261.2 | | Corrected Ave (3 peaks): | | | | 202.6 RPD = 25 |
| | | | | | | | | | | |
| Aroclor-1268 | 1 | 12.245 | 0.001 | 349286 | 223.8 | 1 | 12.434 | 0.000 | 262014 | 223.3 |
| Aroclor-1268 | 2 | 12.318 | 0.000 | 349715 | 224.6 | 2 | 12.502 | 0.000 | 277060 | 221.9 |
| Aroclor-1268 | 3 | 12.699 | 0.000 | 289328 | 224.3 | 3 | 12.893 | -0.000 | 208928 | 201.0 |
| Aroclor-1268 | 4 | 13.490 | 0.001 | 849299 | 222.1 | 4 | 13.710 | 0.002 | 725831 | 226.1 |
| Total CollAve (4 peaks): | | | | 223.7 | | Total Col2Ave (4 peaks): | | | | 218.1 RPD = 3 |

Corrected Ave (3 peaks): 223.4 Corrected Ave (3 peaks): 215.4 RPD = 4

Total PCB Area Col1 (5.909 - 13.792) = 2866092 Col1 Total PCB = 0.5 ppm*

Total PCB Area Col2 (5.787 - 14.020) = 2084481 Col2 Total PCB = 0.6 ppm*

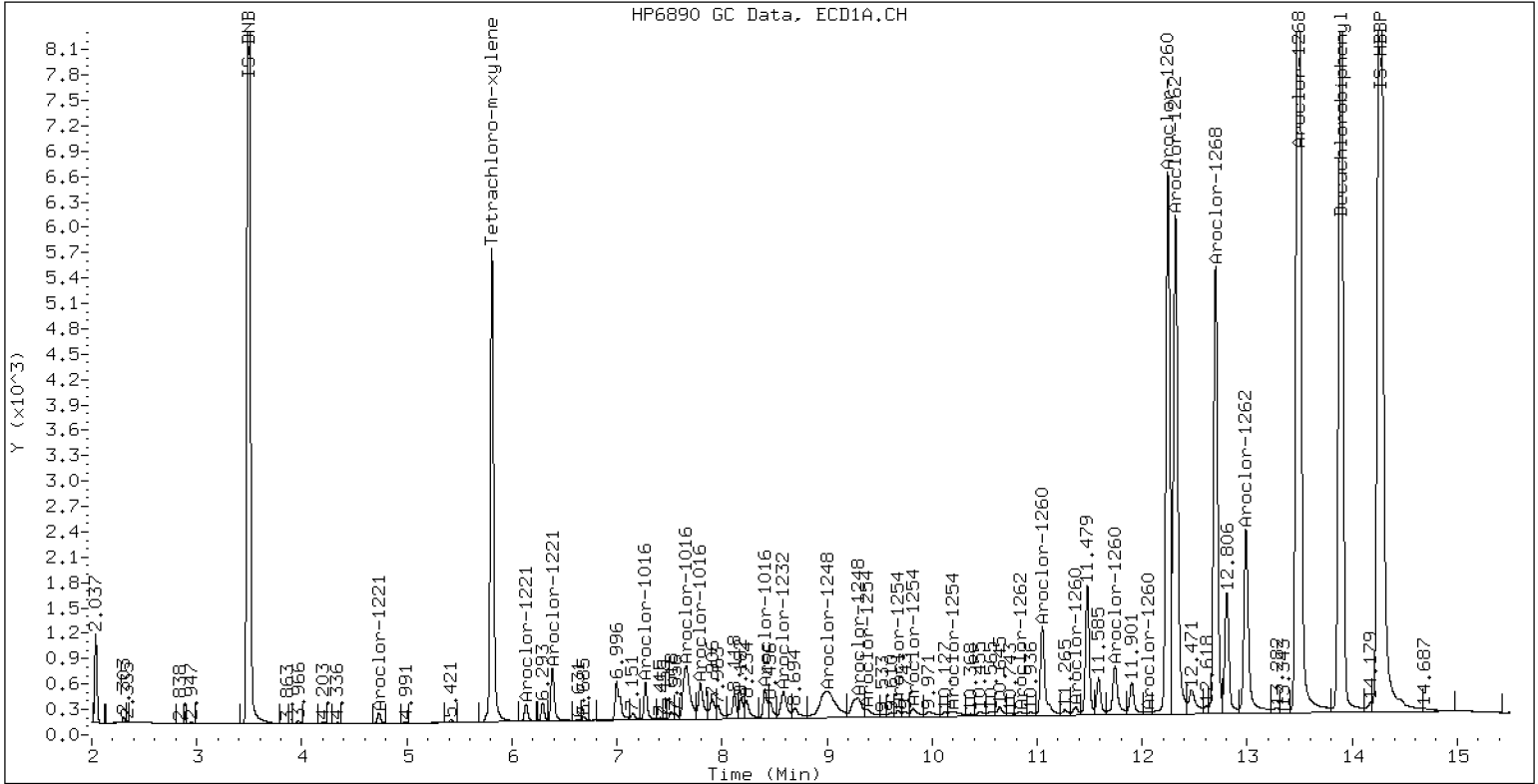
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 AR3268 SCV

24-JAN-2023 21:36, 2ul





CONTINUING CALIBRATION CHECK
EPA 8082A

| | | | |
|----------------|----------------------------------|-------------------|------------------------|
| Laboratory: | <u>Analytical Resources, LLC</u> | SDG: | <u>23A0180</u> |
| Client: | <u>Anchor QEA, LLC</u> | Project: | <u>AOC5 MR Phase 1</u> |
| Instrument ID: | <u>ECD7</u> | Calibration: | <u>GA00061</u> |
| Lab File ID: | <u>02042313ECD7.D</u> | Calibration Date: | <u>01/24/2023</u> |
| Sequence: | <u>SLB0084</u> | Injection Date: | <u>02/04/23</u> |
| Lab Sample ID: | <u>SLB0084-CCV1</u> | Injection Time: | <u>20:08</u> |
| Sequence Name: | <u>AR1248CCV1</u> | | |

| COMPOUND | TYPE | CONC. (ug/L) | | RESPONSE FACTOR (RRF) | | | % DRIFT/DIFF | |
|----------------------------|------|--------------|------|-----------------------|-----------|-----|--------------|-------|
| | | STD | CCV | ICAL | CCV | MIN | CCV | LIMIT |
| Aroclor 1248 | A | 250.00 | 211 | 0.0592639 | 0.0478715 | | -15.7 | +/-20 |
| Aroclor-1248 (1) | A | 250.00 | 251 | | 0.0402164 | | | |
| Aroclor-1248 (2) | A | 250.00 | 246 | | 0.0502348 | | | |
| Aroclor-1248 (3) | A | 250.00 | 174 | | 0.0678622 | | | |
| Aroclor-1248 (4) | A | 250.00 | 172 | | 0.0331724 | | | |
| Aroclor 1248 [2C] | A | 250.00 | 244 | 0.0453673 | 0.0441497 | | -2.3 | +/-20 |
| Aroclor-1248 (1) [2C] | A | 250.00 | 257 | | 0.0371175 | | | |
| Aroclor-1248 (2) [2C] | A | 250.00 | 235 | | 0.0366196 | | | |
| Aroclor-1248 (3) [2C] | A | 250.00 | 248 | | 0.0471778 | | | |
| Aroclor-1248 (4) [2C] | A | 250.00 | 237 | | 0.0556837 | | | |
| Decachlorobiphenyl | A | 40.000 | 35.9 | 0.8555994 | 0.7680921 | | -10.3 | +/-20 |
| Tetrachlorometaxylene | A | 40.000 | 41.2 | 1.1307870 | 1.1650210 | | 3.0 | +/-20 |
| Decachlorobiphenyl [2C] | A | 40.000 | 40.3 | 1.2696430 | 1.2804820 | | 0.8 | +/-20 |
| Tetrachlorometaxylene [2C] | A | 40.000 | 40.8 | 1.0814980 | 1.1018520 | | 2.0 | +/-20 |

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230204.b/02042313ECD7.D
 Data file 2: /230204.b/230204.b/02042313ECD7.D
 Method: \\target\share\chem4\ecd7.i\230204.b\PCB.m
 Compound Sublist: AR1248.sub
 Instrument, Inj. Vol.: ecd7.i, 2ul
 Quant Method: Internal Std

ARI ID: AR1248CCV1
 Client ID:
 Injection Date: 04-FEB-2023 20:08
 Report Date: 02/06/2023 16:43
 Matrix: NONE
 Dilution Factor: 1.0

SURROGATES

| RT | ZB5 Col Shift | Response | RT | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag |
|--------|---------------|----------|--------|----------------|----------|------------|-------------|------|----------------------|
| 5.806 | 0.000 | 246791 | 5.683 | -0.001 | 188382 | 41.2 | 40.8 | 1.1 | Tetrachloro-m-xylene |
| 13.889 | 0.001 | 193343 | 14.116 | -0.000 | 233912 | 35.9 | 40.3 | 11.6 | Decachlorobiphenyl |

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1 | | | |
|--------------------|----------------|-------------|-------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 503318 | 423668 | -15.8 |
| Hexabromobiphenyl | 647433 | 503437 | -22.2 |
| Column 2 | | | |
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 336911 | 341937 | 1.5 |
| Hexabromobiphenyl | 382032 | 365350 | -4.4 |

* Standard Areas taken from Initial Cal Level 3
 Initial Calibration Date: 24-JAN-2023
 <- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | | ZB35 Col | | | | | |
|--------------------------|-------|-------|--------|-------|--------------------------|----------|-------|-------|-------|----------|--|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount | |
| Aroclor-1248 | 1 | 8.400 | 0.000 | 53245 | 251.2 | 1 | 8.302 | 0.000 | 39662 | 256.6 | |
| Aroclor-1248 | 2 | 8.572 | -0.000 | 66509 | 246.0 | 2 | 8.709 | 0.000 | 39130 | 235.2 | |
| Aroclor-1248 | 3 | 8.993 | 0.002 | 89847 | 173.7 | 3 | 9.151 | 0.000 | 50412 | 248.0 | |
| Aroclor-1248 | 4 | 9.291 | 0.001 | 43919 | 171.6 | 4 | 9.575 | 0.000 | 59501 | 236.7 | |
| Total CollAve (4 peaks): | | | | 210.6 | Total Col2Ave (4 peaks): | | | | 244.1 | RPD = 15 | |
| Corrected Ave (3 peaks): | | | | 197.1 | Corrected Ave (3 peaks): | | | | 239.9 | RPD = 20 | |
| CalAmt %D: | | | | -15.7 | CalAmt %D: | | | | -2.4 | | |

Total PCB Area Col1 (5.906 - 13.788) = 984078 Col1 Total PCB = 0.2 ppm*

Total PCB Area Col2 (5.784 - 14.016) = 759603 Col2 Total PCB = 0.2 ppm*

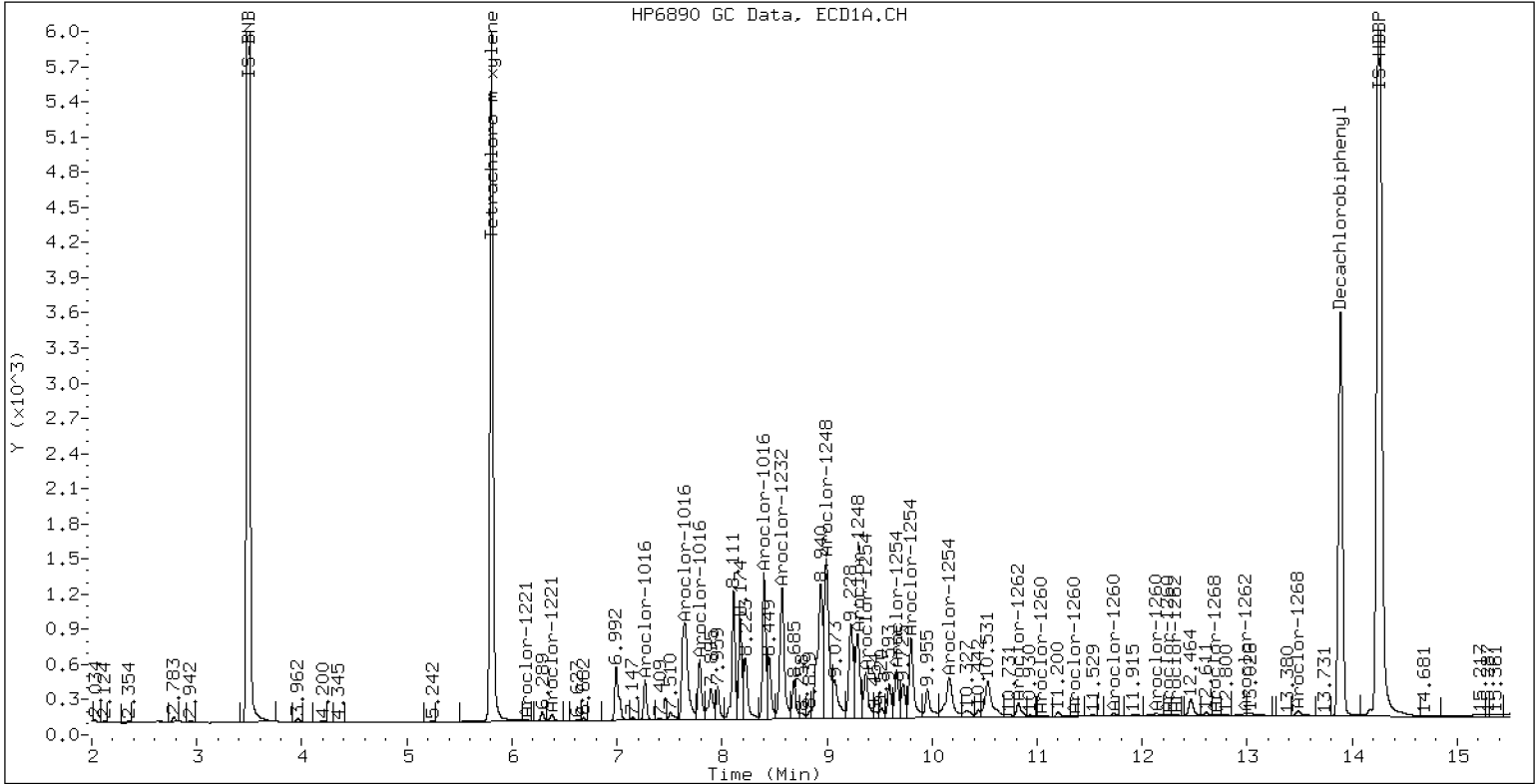
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 AR1248CCV1

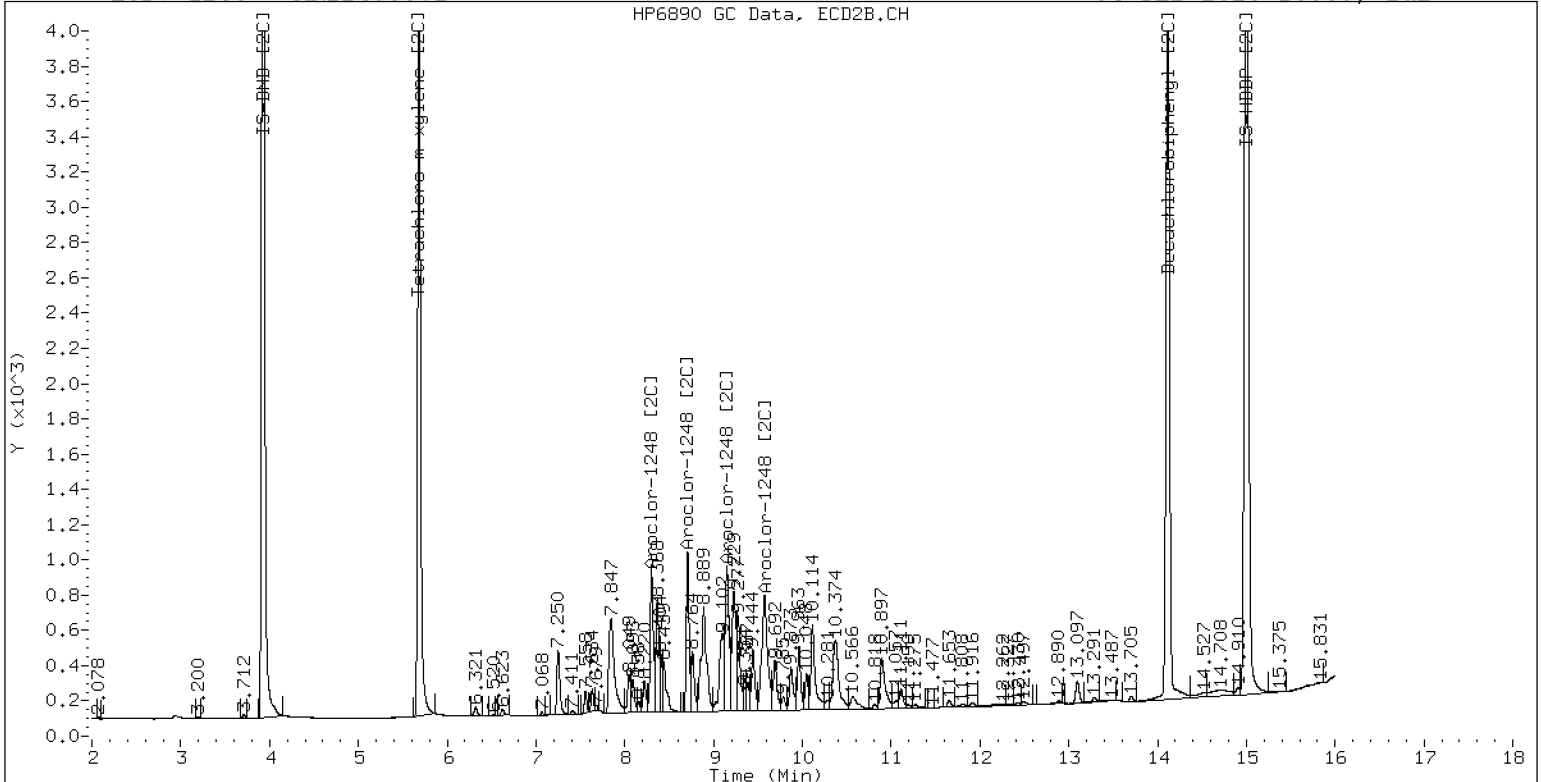
04-FEB-2023 20:08, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1248CCV1

04-FEB-2023 20:08, 2ul



ZB-35 Manual Integration: NO



CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: ECD7

Calibration: GA00061

Lab File ID: 02042314ECD7.D

Calibration Date: 01/24/2023

Sequence: SLB0084

Injection Date: 02/04/23

Lab Sample ID: SLB0084-CCV2

Injection Time: 20:29

Sequence Name: AR1660CCV2

| COMPOUND | TYPE | CONC. (ug/L) | | RESPONSE FACTOR (RRF) | | | % DRIFT/DIFF | |
|----------------------------|------|--------------|------|-----------------------|-----------|-----|--------------|-------|
| | | STD | CCV | ICAL | CCV | MIN | CCV | LIMIT |
| Aroclor 1016 | A | 250.00 | 261 | 0.0506755 | 0.0529843 | | 4.4 | +/-20 |
| Aroclor-1016 (1) | A | 250.00 | 265 | 0.0297277 | 0.0315488 | | 6.0 | |
| Aroclor-1016 (2) | A | 250.00 | 267 | 0.0985017 | 0.1050758 | | 6.8 | |
| Aroclor-1016 (3) | A | 250.00 | 243 | 0.0453193 | 0.0439834 | | -2.8 | |
| Aroclor-1016 (4) | A | 250.00 | 269 | 0.0291533 | 0.0313292 | | 7.6 | |
| Aroclor 1016 [2C] | A | 250.00 | 262 | 0.0519244 | 0.0543017 | | 4.7 | +/-20 |
| Aroclor-1016 (1) [2C] | A | 250.00 | 263 | 0.0433907 | 0.0456423 | | 5.2 | |
| Aroclor-1016 (2) [2C] | A | 250.00 | 259 | 0.0950862 | 0.0986797 | | 3.6 | |
| Aroclor-1016 (3) [2C] | A | 250.00 | 269 | 0.0388014 | 0.0417763 | | 7.6 | |
| Aroclor-1016 (4) [2C] | A | 250.00 | 256 | 0.0304194 | 0.0311083 | | 2.4 | |
| Aroclor 1260 | A | 250.00 | 232 | 0.0605224 | 0.0564011 | | -7.3 | +/-20 |
| Aroclor-1260 (1) | A | 250.00 | 242 | 0.0448870 | 0.0433993 | | -3.2 | |
| Aroclor-1260 (2) | A | 250.00 | 240 | 0.0461412 | 0.0443138 | | -4.0 | |
| Aroclor-1260 (3) | A | 250.00 | 233 | 0.1214672 | 0.1131837 | | -6.8 | |
| Aroclor-1260 (4) | A | 250.00 | 230 | 0.0627593 | 0.0576496 | | -8.0 | |
| Aroclor-1260 (5) | A | 250.00 | 214 | 0.0273573 | 0.0234590 | | -14.4 | |
| Aroclor 1260 [2C] | A | 250.00 | 247 | 0.0836545 | 0.0815474 | | -1.2 | +/-20 |
| Aroclor-1260 (1) [2C] | A | 250.00 | 246 | 0.0577136 | 0.0566901 | | -1.6 | |
| Aroclor-1260 (2) [2C] | A | 250.00 | 239 | 0.1460113 | 0.1397069 | | -4.4 | |
| Aroclor-1260 (3) [2C] | A | 250.00 | 259 | 0.0363944 | 0.0376605 | | 3.6 | |
| Aroclor-1260 (4) [2C] | A | 250.00 | 244 | 0.0944986 | 0.0921321 | | -2.4 | |
| Decachlorobiphenyl | A | 40.000 | 38.6 | 0.8555994 | 0.8253900 | | -3.5 | +/-20 |
| Tetrachlorometaxylene | A | 40.000 | 43.3 | 1.1307870 | 1.2249640 | | 8.3 | +/-20 |
| Decachlorobiphenyl [2C] | A | 40.000 | 41.4 | 1.2696430 | 1.3134880 | | 3.5 | +/-20 |
| Tetrachlorometaxylene [2C] | A | 40.000 | 42.3 | 1.0814980 | 1.1449360 | | 5.8 | +/-20 |

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230204.b/02042314ECD7.D
Data file 2: /230204.b/230204.b/02042314ECD7.D
Method: \\target\share\chem4\ecd7.i\230204.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660CCV2
Client ID:
Injection Date: 04-FEB-2023 20:29
Report Date: 02/06/2023 16:43
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

| RT | ZB5 Col Shift | Response | RT | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag |
|--------|------------------|----------|--------|-------------------|----------|---------------|----------------|-----|----------------------|
| 5.807 | 0.001 | 255312 | 5.683 | -0.001 | 193046 | 43.3 | 42.3 | 2.3 | Tetrachloro-m-xylene |
| 13.889 | 0.001 | 241590 | 14.116 | 0.000 | 263548 | 38.6 | 41.4 | 7.0 | Decachlorobiphenyl |

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | |
|--------------------|----------------|-------------|-------|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 503318 | 416848 | -17.2 |
| Hexabromobiphenyl | 647433 | 585396 | -9.6 |

| Standard Cpnd | Column 2 | | |
|--------------------|----------------|-------------|-----|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 336911 | 337217 | 0.1 |
| Hexabromobiphenyl | 382032 | 401295 | 5.0 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-JAN-2023
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | ZB35 Col | | | | | |
|--------------------------|-------|--------|-------|--------|----------|--------------------------|--------|-------|--------|---------------|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount |
| Aroclor-1016 | 1 | 7.268 | 0.001 | 41097 | 265.3 | 1 | 7.252 | 0.000 | 48098 | 263.0 |
| Aroclor-1016 | 2 | 7.649 | 0.001 | 136877 | 266.7 | 2 | 7.848 | 0.001 | 103989 | 259.4 |
| Aroclor-1016 | 3 | 7.786 | 0.001 | 57295 | 242.6 | 3 | 8.047 | 0.001 | 44024 | 269.2 |
| Aroclor-1016 | 4 | 8.401 | 0.001 | 40811 | 268.7 | 4 | 8.302 | 0.000 | 32782 | 255.7 |
| Total CollAve (4 peaks): | | | | 260.8 | | Total Col2Ave (4 peaks): | | | | 261.8 RPD = 0 |
| Corrected Ave (3 peaks): | | | | 258.2 | | Corrected Ave (3 peaks): | | | | 259.4 RPD = 0 |
| CalAmt %D: | | | | 4.3 | | CalAmt %D: | | | | 4.7 |
| Aroclor-1260 | 1 | 11.040 | 0.002 | 79393 | 241.7 | 1 | 11.648 | 0.001 | 71092 | 245.6 |
| Aroclor-1260 | 2 | 11.356 | 0.001 | 81066 | 240.1 | 2 | 11.911 | 0.000 | 175199 | 239.2 |
| Aroclor-1260 | 3 | 11.728 | 0.001 | 207054 | 233.0 | 3 | 12.430 | 0.000 | 47228 | 258.7 |
| Aroclor-1260 | 4 | 12.132 | 0.001 | 105462 | 229.6 | 4 | 12.495 | 0.000 | 115538 | 243.7 |
| Aroclor-1260 | 5 | 12.239 | 0.000 | 42915 | 214.4 | NS | --- | | | ---- |
| Total CollAve (5 peaks): | | | | 231.8 | | Total Col2Ave (4 peaks): | | | | 246.8 RPD = 6 |
| Corrected Ave (4 peaks): | | | | 229.3 | | Corrected Ave (3 peaks): | | | | 242.8 RPD = 6 |
| CalAmt %D: | | | | -7.3 | | CalAmt %D: | | | | -1.3 |

Total PCB Area Coll (5.906 - 13.788) = 2324809 Coll Total PCB = 0.5 ppm*

Total PCB Area Col2 (5.784 - 14.016) = 1744280 Col2 Total PCB = 0.5 ppm*

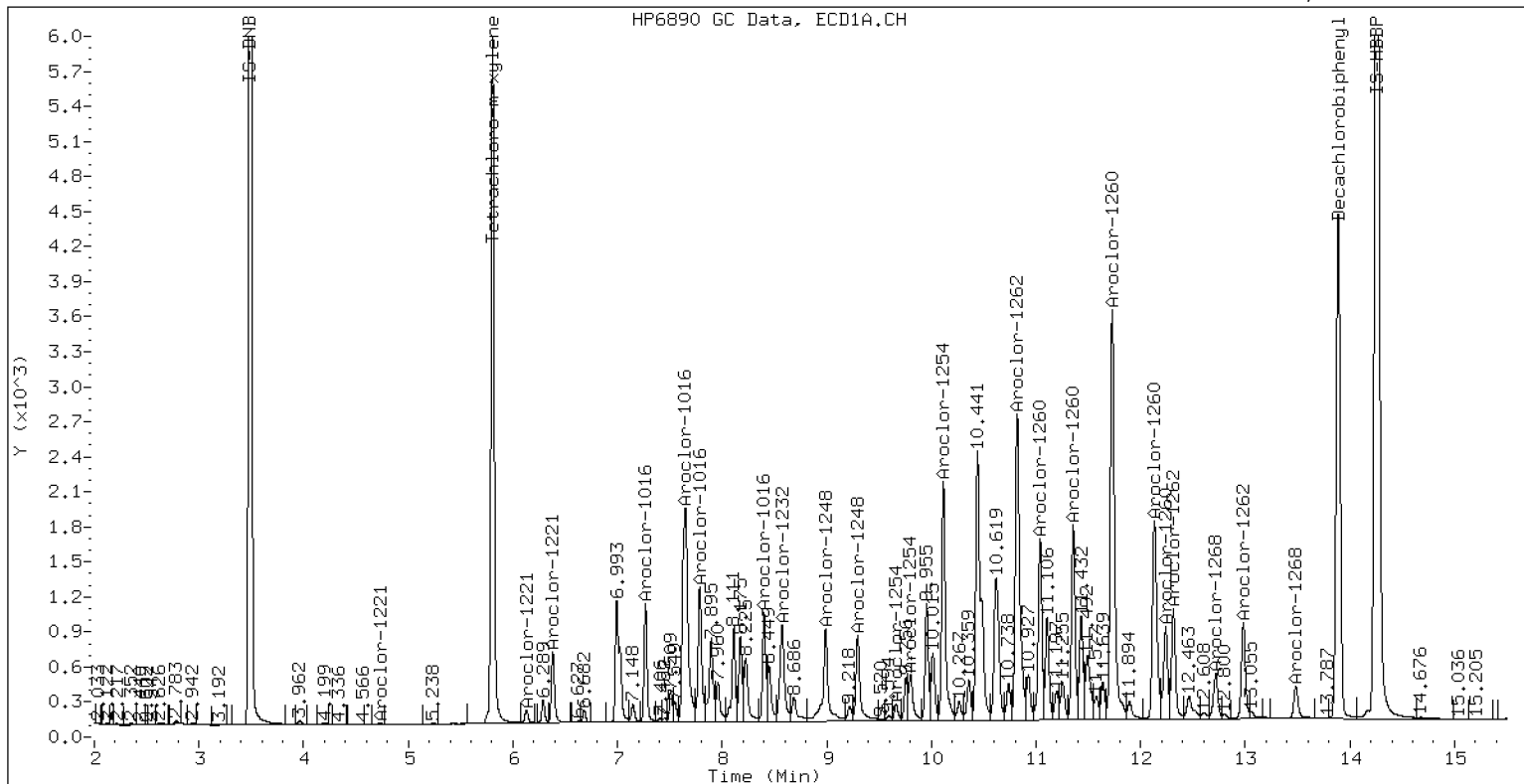
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCV2

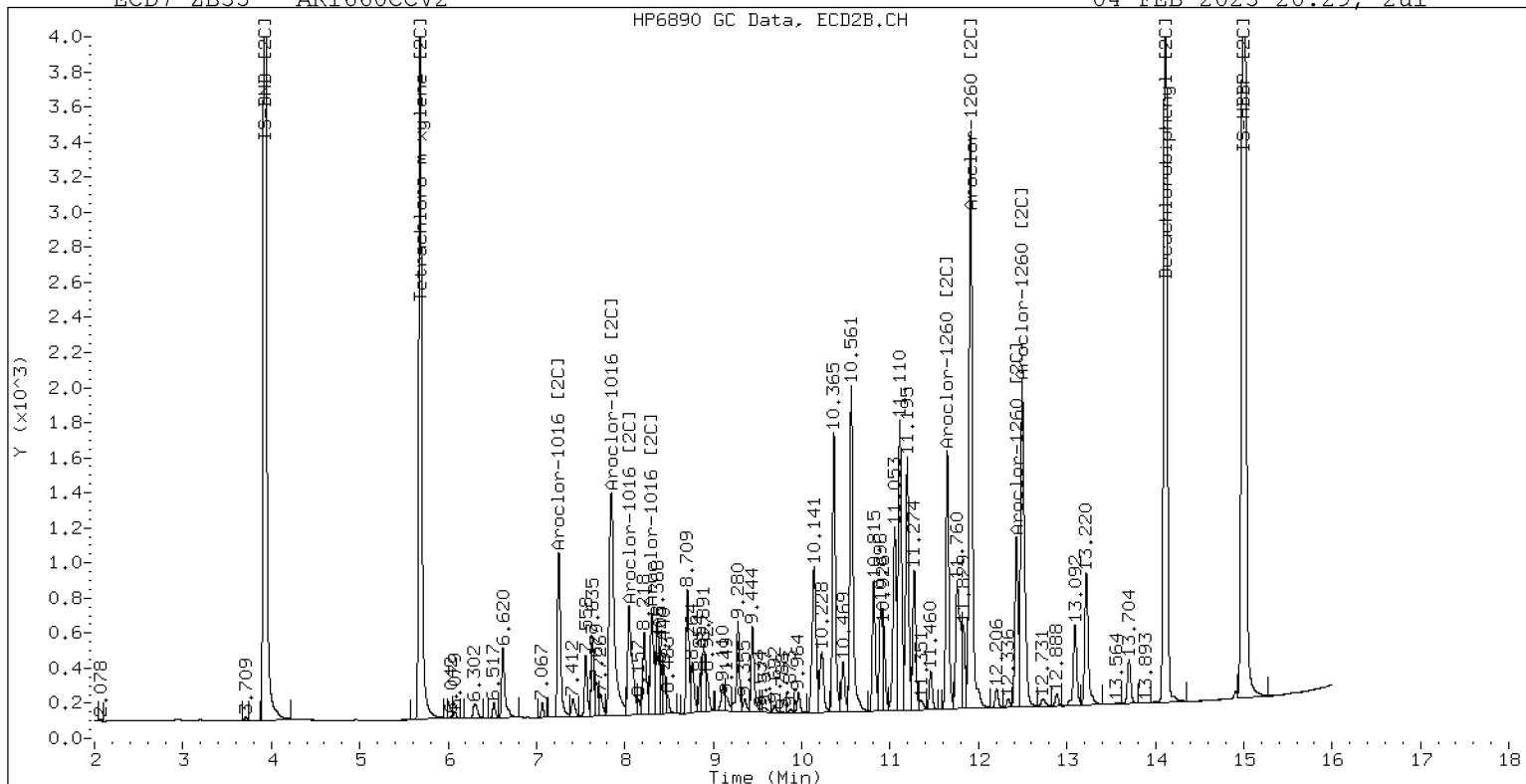
04-FEB-2023 20:29, 2u1



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660CCV2

04-FEB-2023 20:29, 2u1



ZB-35 Manual Integration: NO



CONTINUING CALIBRATION CHECK
EPA 8082A

| | | | |
|----------------|----------------------------------|-------------------|------------------------|
| Laboratory: | <u>Analytical Resources, LLC</u> | SDG: | <u>23A0180</u> |
| Client: | <u>Anchor QEA, LLC</u> | Project: | <u>AOC5 MR Phase 1</u> |
| Instrument ID: | <u>ECD7</u> | Calibration: | <u>GA00061</u> |
| Lab File ID: | <u>02042329ECD7.D</u> | Calibration Date: | <u>01/24/2023</u> |
| Sequence: | <u>SLB0084</u> | Injection Date: | <u>02/05/23</u> |
| Lab Sample ID: | <u>SLB0084-CCV3</u> | Injection Time: | <u>01:45</u> |
| Sequence Name: | <u>AR1242CCV3</u> | | |

| COMPOUND | TYPE | CONC. (ug/L) | | RESPONSE FACTOR (RRF) | | | % DRIFT/DIFF | |
|----------------------------|------|--------------|------|-----------------------|-----------|-----|--------------|---------|
| | | STD | CCV | ICAL | CCV | MIN | CCV | LIMIT |
| Aroclor 1242 | A | 250.00 | 254 | 0.0411165 | 0.0419599 | | 1.5 | +/-20 |
| Aroclor-1242 (1) | A | 250.00 | 260 | | 0.0254297 | | | |
| Aroclor-1242 (2) | A | 250.00 | 260 | | 0.0832772 | | | |
| Aroclor-1242 (3) | A | 250.00 | 249 | | 0.0237204 | | | |
| Aroclor-1242 (4) | A | 250.00 | 246 | | 0.0354123 | | | |
| Aroclor 1242 [2C] | A | 250.00 | 251 | 0.0423236 | 0.0426026 | | 0.4 | +/-20 |
| Aroclor-1242 (1) [2C] | A | 250.00 | 262 | | 0.0366515 | | | |
| Aroclor-1242 (2) [2C] | A | 250.00 | 253 | | 0.0786273 | | | |
| Aroclor-1242 (3) [2C] | A | 250.00 | 253 | | 0.0246562 | | | |
| Aroclor-1242 (4) [2C] | A | 250.00 | 236 | | 0.0304752 | | | |
| Decachlorobiphenyl | A | 40.000 | 34.5 | 0.8555994 | 0.7381736 | | -13.8 | +/-20 |
| Tetrachlorometaxylene | A | 40.000 | 50.7 | 1.1307870 | 1.4340280 | | 26.8 | +/-20 * |
| Decachlorobiphenyl [2C] | A | 40.000 | 37.8 | 1.2696430 | 1.1989310 | | -5.5 | +/-20 |
| Tetrachlorometaxylene [2C] | A | 40.000 | 50.1 | 1.0814980 | 1.3535960 | | 25.3 | +/-20 * |

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230204.b/02042329ECD7.D
Data file 2: /230204.b/230204.b/02042329ECD7.D
Method: \\target\share\chem4\ecd7.i\230204.b\PCB.m
Compound Sublist: AR1242.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1242CCV3
Client ID:
Injection Date: 05-FEB-2023 01:45
Report Date: 02/06/2023 16:44
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

| RT | ZB5 Col Shift | Response | RT | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag |
|--------|---------------|----------|--------|----------------|----------|------------|-------------|-----|----------------------|
| 5.807 | 0.001 | 309416 | 5.683 | -0.001 | 239464 | 50.7 | 50.1 | 1.3 | Tetrachloro-m-xylene |
| 13.889 | 0.001 | 179856 | 14.115 | -0.001 | 220237 | 34.5 | 37.8 | 9.0 | Decachlorobiphenyl |

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | |
|--------------------|----------------|-------------|-------|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 503318 | 431534 | -14.3 |
| Hexabromobiphenyl | 647433 | 487300 | -24.7 |

| Standard Cpnd | Column 2 | | |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 336911 | 353819 | 5.0 |
| Hexabromobiphenyl | 382032 | 367389 | -3.8 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-JAN-2023
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | | ZB35 Col | | | | |
|--------------------------|-------|-------|-------|--------|--------------------------|----------|-------|-------|-------|---------|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount |
| Aroclor-1242 | 1 | 7.268 | 0.000 | 34293 | 259.5 | 1 | 7.251 | 0.000 | 40525 | 261.9 |
| Aroclor-1242 | 2 | 7.647 | 0.000 | 112303 | 259.7 | 2 | 7.848 | 0.000 | 86937 | 252.9 |
| Aroclor-1242 | 3 | 8.401 | 0.000 | 31988 | 249.0 | 3 | 9.151 | 0.000 | 27262 | 253.3 |
| Aroclor-1242 | 4 | 8.574 | 0.000 | 47755 | 246.0 | 4 | 9.576 | 0.000 | 33696 | 236.2 |
| Total Col1Ave (4 peaks): | | | | 253.6 | Total Col2Ave (4 peaks): | | | | 251.1 | RPD = 1 |
| Corrected Ave (3 peaks): | | | | 251.5 | Corrected Ave (3 peaks): | | | | 247.5 | RPD = 2 |
| CalAmt %D: | | | | 1.4 | CalAmt %D: | | | | 0.4 | |

Total PCB Area Col1 (5.906 - 13.788) = 798583 Col1 Total PCB = 0.2 ppm*

Total PCB Area Col2 (5.784 - 14.016) = 611939 Col2 Total PCB = 0.2 ppm*

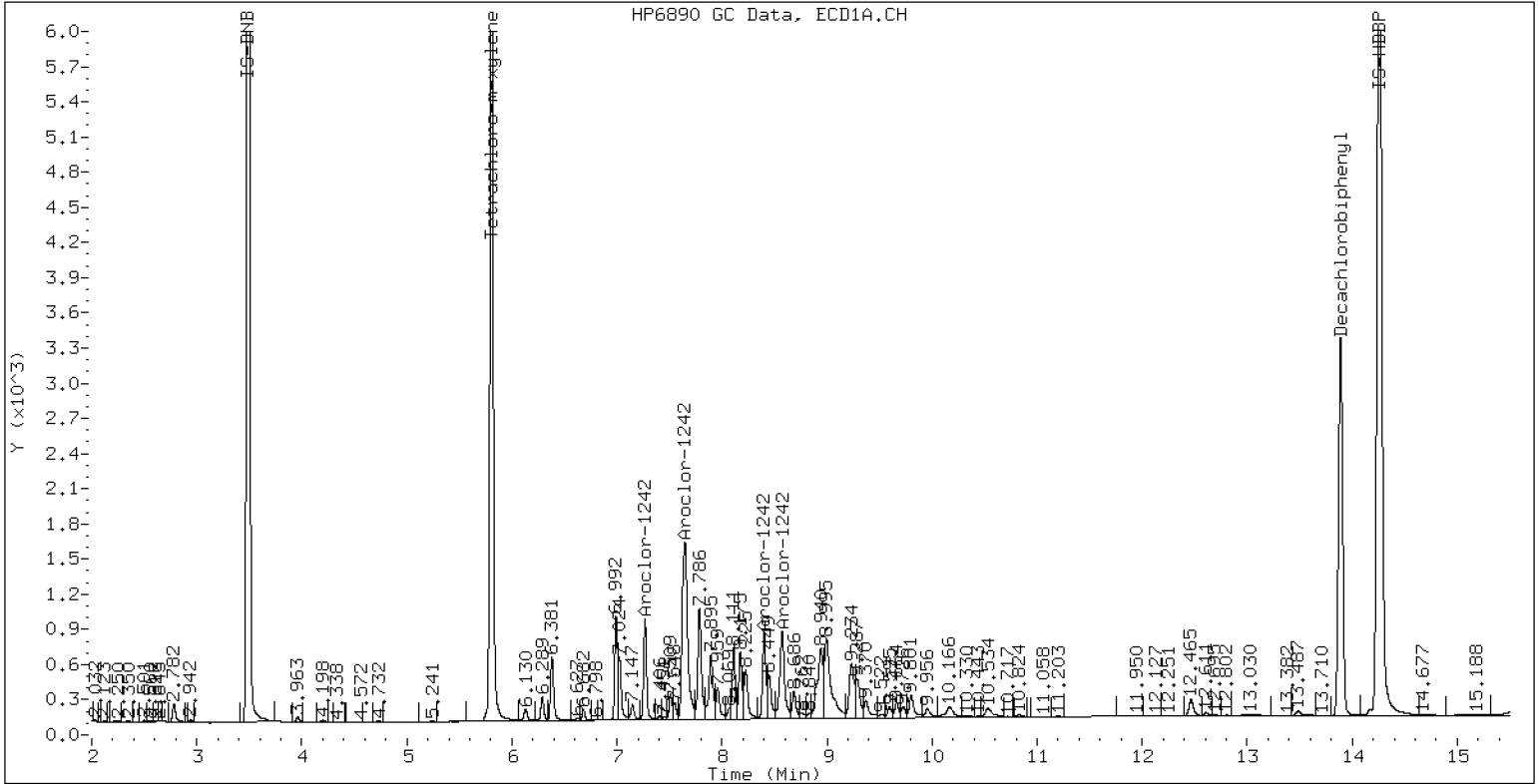
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 AR1242CCV3

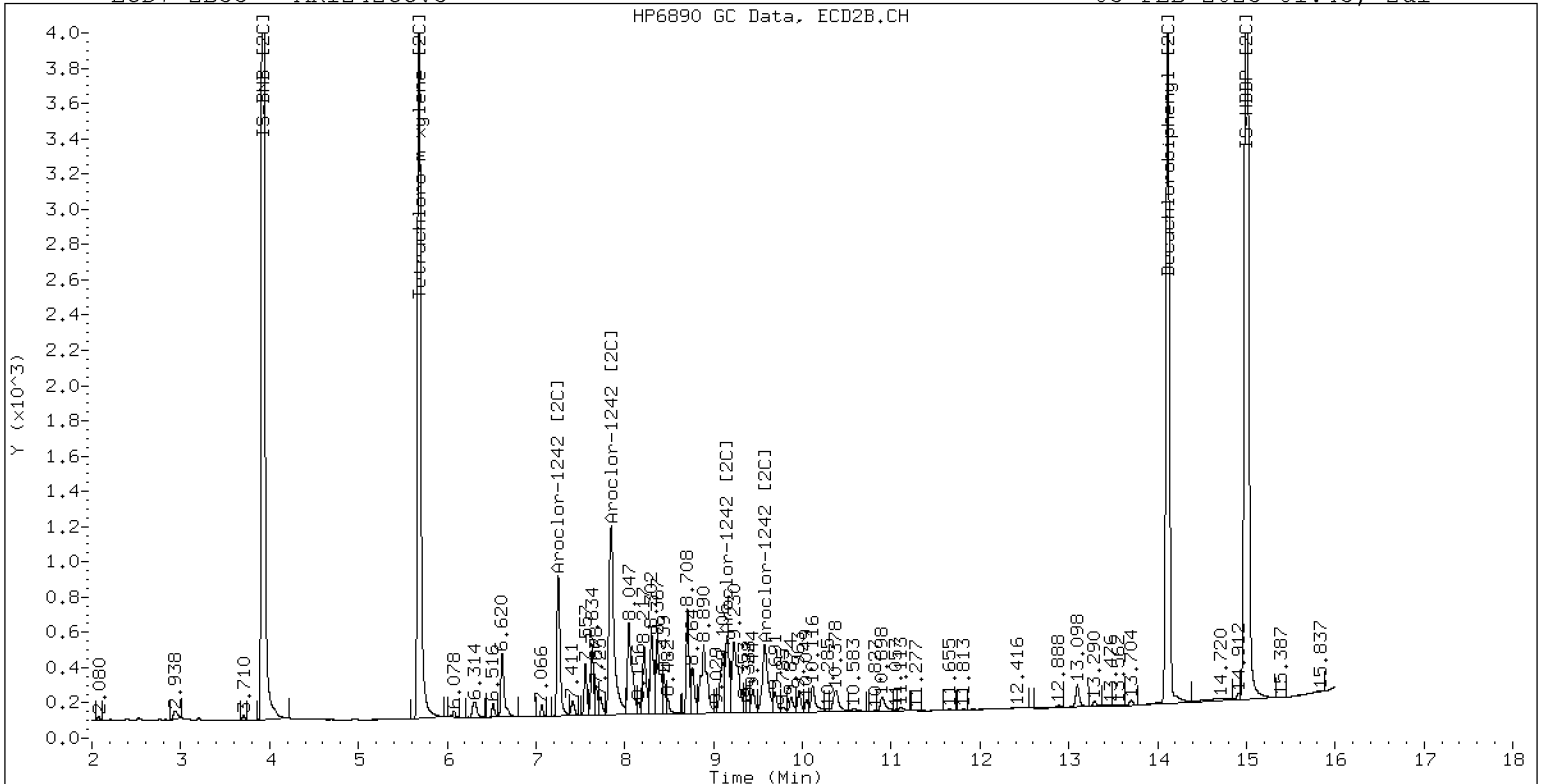
05-FEB-2023 01:45, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1242CCV3

05-FEB-2023 01:45, 2ul



ZB-35 Manual Integration: NO



CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: ECD7

Calibration: GA00061

Lab File ID: 02042330ECD7.D

Calibration Date: 01/24/2023

Sequence: SLB0084

Injection Date: 02/05/23

Lab Sample ID: SLB0084-CCV4

Injection Time: 02:06

Sequence Name: AR1660CCV4

| COMPOUND | TYPE | CONC. (ug/L) | | RESPONSE FACTOR (RRF) | | | % DRIFT/DIFF | |
|----------------------------|------|--------------|------|-----------------------|-----------|-----|--------------|-------|
| | | STD | CCV | ICAL | CCV | MIN | CCV | LIMIT |
| Aroclor 1016 | A | 250.00 | 259 | 0.0506755 | 0.0525610 | | 3.4 | +/-20 |
| Aroclor-1016 (1) | A | 250.00 | 263 | 0.0297277 | 0.0312894 | | 5.2 | |
| Aroclor-1016 (2) | A | 250.00 | 265 | 0.0985017 | 0.1044357 | | 6.0 | |
| Aroclor-1016 (3) | A | 250.00 | 240 | 0.0453193 | 0.0435231 | | -4.0 | |
| Aroclor-1016 (4) | A | 250.00 | 266 | 0.0291533 | 0.0309958 | | 6.4 | |
| Aroclor 1016 [2C] | A | 250.00 | 261 | 0.0519244 | 0.0541495 | | 4.5 | +/-20 |
| Aroclor-1016 (1) [2C] | A | 250.00 | 260 | 0.0433907 | 0.0451014 | | 4.0 | |
| Aroclor-1016 (2) [2C] | A | 250.00 | 259 | 0.0950862 | 0.0984531 | | 3.6 | |
| Aroclor-1016 (3) [2C] | A | 250.00 | 270 | 0.0388014 | 0.0418791 | | 8.0 | |
| Aroclor-1016 (4) [2C] | A | 250.00 | 256 | 0.0304194 | 0.0311645 | | 2.4 | |
| Aroclor 1260 | A | 250.00 | 228 | 0.0605224 | 0.0553478 | | -8.9 | +/-20 |
| Aroclor-1260 (1) | A | 250.00 | 240 | 0.0448870 | 0.0430411 | | -4.0 | |
| Aroclor-1260 (2) | A | 250.00 | 237 | 0.0461412 | 0.0437076 | | -5.2 | |
| Aroclor-1260 (3) | A | 250.00 | 228 | 0.1214672 | 0.1108529 | | -8.8 | |
| Aroclor-1260 (4) | A | 250.00 | 224 | 0.0627593 | 0.0562110 | | -10.4 | |
| Aroclor-1260 (5) | A | 250.00 | 210 | 0.0273573 | 0.0229265 | | -16.0 | |
| Aroclor 1260 [2C] | A | 250.00 | 239 | 0.0836545 | 0.0785887 | | -4.3 | +/-20 |
| Aroclor-1260 (1) [2C] | A | 250.00 | 240 | 0.0577136 | 0.0553891 | | -4.0 | |
| Aroclor-1260 (2) [2C] | A | 250.00 | 227 | 0.1460113 | 0.1323747 | | -9.2 | |
| Aroclor-1260 (3) [2C] | A | 250.00 | 253 | 0.0363944 | 0.0368204 | | 1.2 | |
| Aroclor-1260 (4) [2C] | A | 250.00 | 237 | 0.0944986 | 0.0897705 | | -5.2 | |
| Decachlorobiphenyl | A | 40.000 | 38.4 | 0.8555994 | 0.8210128 | | -4.0 | +/-20 |
| Tetrachlorometaxylene | A | 40.000 | 43.2 | 1.1307870 | 1.2221160 | | 8.0 | +/-20 |
| Decachlorobiphenyl [2C] | A | 40.000 | 40.4 | 1.2696430 | 1.2809850 | | 1.0 | +/-20 |
| Tetrachlorometaxylene [2C] | A | 40.000 | 42.3 | 1.0814980 | 1.1433820 | | 5.8 | +/-20 |

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230204.b/02042330ECD7.D
Data file 2: /230204.b/230204.b/02042330ECD7.D
Method: \\target\share\chem4\ecd7.i\230204.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660CCV4
Client ID:
Injection Date: 05-FEB-2023 02:06
Report Date: 02/06/2023 16:44
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

| RT | ZB5 Col Shift | Response | RT | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag |
|--------|---------------|----------|--------|----------------|----------|------------|-------------|-----|----------------------|
| 5.807 | 0.002 | 262417 | 5.684 | 0.000 | 200807 | 43.2 | 42.3 | 2.2 | Tetrachloro-m-xylene |
| 13.889 | 0.000 | 242028 | 14.116 | 0.000 | 267722 | 38.4 | 40.4 | 5.0 | Decachlorobiphenyl |

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1 | | | |
|--------------------|----------------|-------------|-------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 503318 | 429447 | -14.7 |
| Hexabromobiphenyl | 647433 | 589584 | -8.9 |
| Column 2 | | | |
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 336911 | 351251 | 4.3 |
| Hexabromobiphenyl | 382032 | 417994 | 9.4 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-JAN-2023
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | | ZB35 Col | | | | | |
|--------------------------|-------|--------|-------|--------|--------------------------|----------|--------|-------|--------|---------|--|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount | |
| Aroclor-1016 | 1 | 7.268 | 0.001 | 41991 | 263.1 | 1 | 7.252 | 0.000 | 49506 | 259.9 | |
| Aroclor-1016 | 2 | 7.648 | 0.000 | 140155 | 265.1 | 2 | 7.847 | 0.000 | 108068 | 258.9 | |
| Aroclor-1016 | 3 | 7.786 | 0.001 | 58409 | 240.1 | 3 | 8.047 | 0.000 | 45969 | 269.8 | |
| Aroclor-1016 | 4 | 8.400 | 0.000 | 41597 | 265.8 | 4 | 8.302 | 0.000 | 34208 | 256.1 | |
| Total CollAve (4 peaks): | | | | 258.5 | Total Col2Ave (4 peaks): | | | | 261.2 | RPD = 1 | |
| Corrected Ave (3 peaks): | | | | 256.1 | Corrected Ave (3 peaks): | | | | 258.3 | RPD = 1 | |
| CalAmt %D: | | | | 3.4 | CalAmt %D: | | | | 4.5 | | |
| Aroclor-1260 | 1 | 11.039 | 0.001 | 79301 | 239.7 | 1 | 11.647 | 0.000 | 72351 | 239.9 | |
| Aroclor-1260 | 2 | 11.356 | 0.001 | 80529 | 236.8 | 2 | 11.911 | 0.000 | 172912 | 226.7 | |
| Aroclor-1260 | 3 | 11.728 | 0.001 | 204241 | 228.2 | 3 | 12.430 | 0.000 | 48096 | 252.9 | |
| Aroclor-1260 | 4 | 12.131 | 0.001 | 103566 | 223.9 | 4 | 12.495 | 0.000 | 117261 | 237.5 | |
| Aroclor-1260 | 5 | 12.239 | 0.000 | 42241 | 209.5 | NS | --- | | | ---- | |
| Total CollAve (5 peaks): | | | | 227.6 | Total Col2Ave (4 peaks): | | | | 239.3 | RPD = 5 | |
| Corrected Ave (4 peaks): | | | | 224.6 | Corrected Ave (3 peaks): | | | | 234.7 | RPD = 4 | |
| CalAmt %D: | | | | -9.0 | CalAmt %D: | | | | -4.3 | | |

Total PCB Area Coll (5.906 - 13.788) = 2332202 Coll Total PCB = 0.5 ppm*

Total PCB Area Col2 (5.784 - 14.016) = 1806918 Col2 Total PCB = 0.5 ppm*

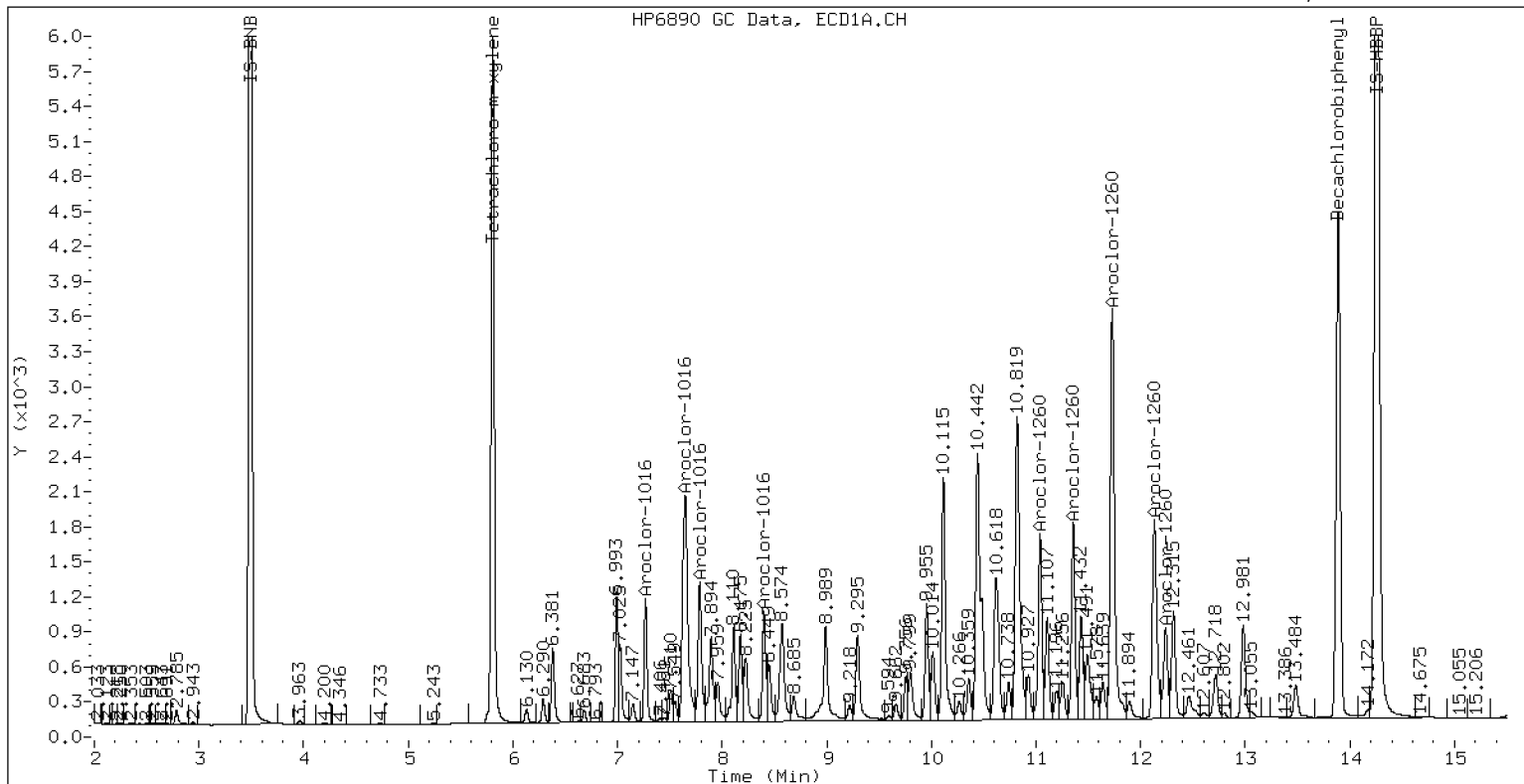
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCV4

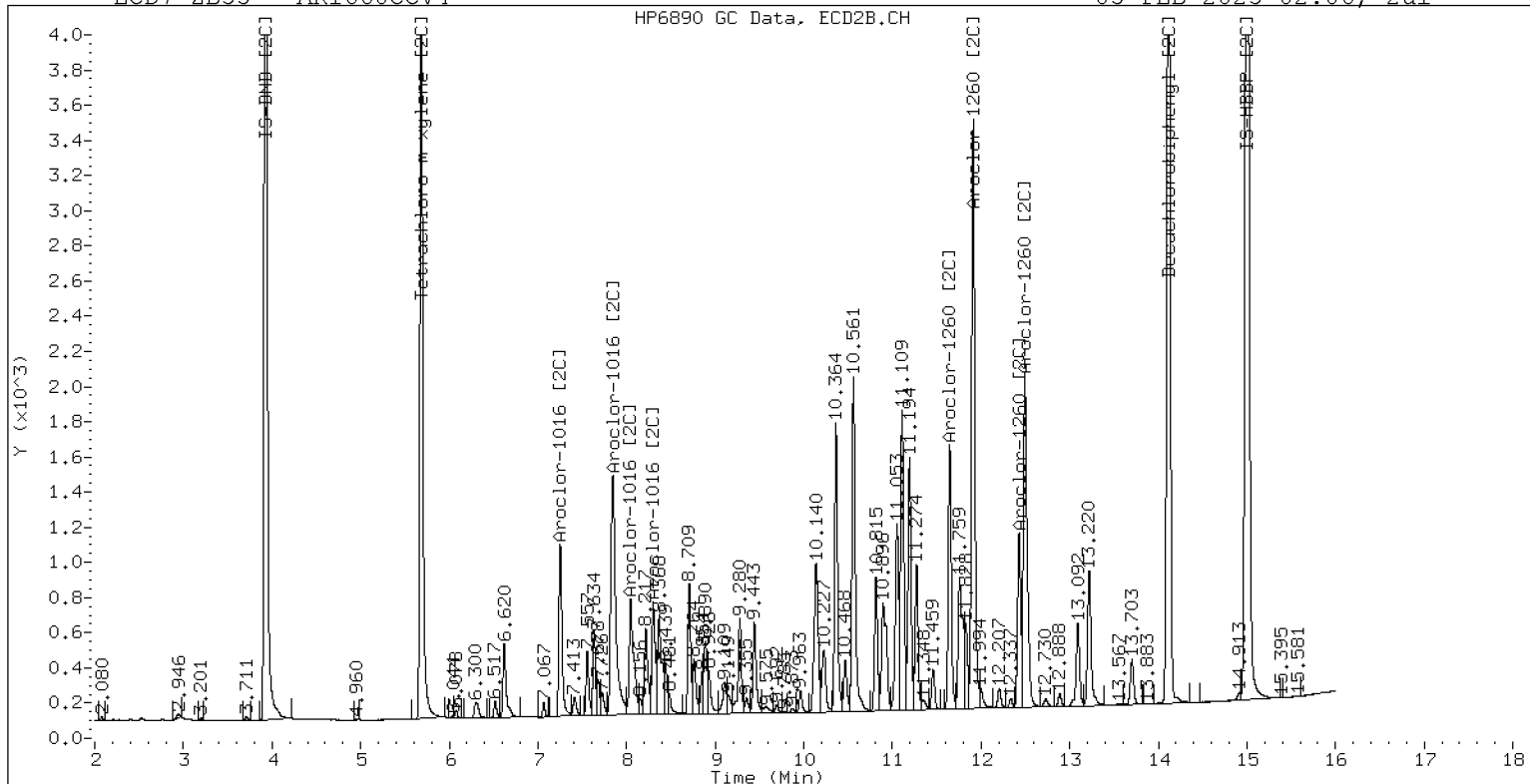
05-FEB-2023 02:06, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660CCV4

05-FEB-2023 02:06, 2ul



ZB-35 Manual Integration: NO



CONTINUING CALIBRATION CHECK
EPA 8082A

| | | | |
|----------------|----------------------------------|-------------------|------------------------|
| Laboratory: | <u>Analytical Resources, LLC</u> | SDG: | <u>23A0180</u> |
| Client: | <u>Anchor QEA, LLC</u> | Project: | <u>AOC5 MR Phase 1</u> |
| Instrument ID: | <u>ECD7</u> | Calibration: | <u>GA00061</u> |
| Lab File ID: | <u>02042345ECD7.D</u> | Calibration Date: | <u>01/24/2023</u> |
| Sequence: | <u>SLB0084</u> | Injection Date: | <u>02/05/23</u> |
| Lab Sample ID: | <u>SLB0084-CCV5</u> | Injection Time: | <u>07:23</u> |
| Sequence Name: | <u>AR1254CCV5</u> | | |

| COMPOUND | TYPE | CONC. (ug/L) | | RESPONSE FACTOR (RRF) | | | % DRIFT/DIFF | |
|----------------------------|------|--------------|------|-----------------------|-----------|-----|--------------|---------|
| | | STD | CCV | ICAL | CCV | MIN | CCV | LIMIT |
| Aroclor 1254 | A | 250.00 | 189 | 0.0675033 | 0.0510880 | | -24.3 | +/-20 * |
| Aroclor-1254 (1) | A | 250.00 | 186 | | 0.0606389 | | | |
| Aroclor-1254 (2) | A | 250.00 | 194 | | 0.0270195 | | | |
| Aroclor-1254 (3) | A | 250.00 | 186 | | 0.0389864 | | | |
| Aroclor-1254 (4) | A | 250.00 | 194 | | 0.0793502 | | | |
| Aroclor-1254 (5) | A | 250.00 | 186 | | 0.0494451 | | | |
| Aroclor 1254 [2C] | A | 250.00 | 201 | 0.0733219 | 0.0591147 | | -19.4 | +/-20 |
| Aroclor-1254 (1) [2C] | A | 250.00 | 212 | | 0.0491220 | | | |
| Aroclor-1254 (2) [2C] | A | 250.00 | 213 | | 0.0398981 | | | |
| Aroclor-1254 (3) [2C] | A | 250.00 | 196 | | 0.0801697 | | | |
| Aroclor-1254 (4) [2C] | A | 250.00 | 211 | | 0.0864645 | | | |
| Aroclor-1254 (5) [2C] | A | 250.00 | 175 | | 0.0399191 | | | |
| Decachlorobiphenyl | A | 40.000 | 34.5 | 0.8555994 | 0.7379266 | | -13.8 | +/-20 |
| Tetrachlorometaxylene | A | 40.000 | 39.8 | 1.1307870 | 1.1243920 | | -0.5 | +/-20 |
| Decachlorobiphenyl [2C] | A | 40.000 | 39.9 | 1.2696430 | 1.2654970 | | -0.3 | +/-20 |
| Tetrachlorometaxylene [2C] | A | 40.000 | 40.2 | 1.0814980 | 1.0871710 | | 0.5 | +/-20 |

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230204.b/02042345ECD7.D
Data file 2: /230204.b/230204.b/02042345ECD7.D
Method: \\target\share\chem4\ecd7.i\230204.b\PCB.m
Compound Sublist: AR1254.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1254CCV5
Client ID:
Injection Date: 05-FEB-2023 07:23
Report Date: 02/06/2023 16:58
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

| ZB5 Col | | ZB35 Col | | | ZB5 | ZB35 | RPD | Compound/Flag | |
|---------|--------|----------|--------|--------|----------|--------|------|---------------|----------------------|
| RT | Shift | Response | RT | Shift | Response | on col | | | on col |
| 5.805 | -0.002 | 246202 | 5.682 | -0.001 | 198824 | 39.8 | 40.2 | 1.1 | Tetrachloro-m-xylene |
| 13.890 | 0.001 | 166056 | 14.115 | -0.001 | 211507 | 34.5 | 39.9 | 14.4 | Decachlorobiphenyl |

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1 | | | |
|--------------------|----------------|-------------|-------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 503318 | 437929 | -13.0 |
| Hexabromobiphenyl | 647433 | 450061 | -30.5 |

| Column 2 | | | |
|--------------------|----------------|-------------|-------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 336911 | 365764 | 8.6 |
| Hexabromobiphenyl | 382032 | 334267 | -12.5 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-JAN-2023
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | | ZB35 Col | | | | | |
|--------------------------|-------|--------|--------|--------|--------|--------------------------|--------|-------|-------|--------|---------|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount | |
| Aroclor-1254 | 1 | 9.292 | -0.001 | 82986 | 185.9 | 1 | 9.442 | 0.000 | 56147 | 211.6 | |
| Aroclor-1254 | 2 | 9.370 | 0.000 | 36977 | 194.0 | 2 | 9.962 | 0.000 | 45604 | 212.6 | |
| Aroclor-1254 | 3 | 9.661 | 0.000 | 53354 | 186.6 | 3 | 10.113 | 0.000 | 91635 | 195.9 | |
| Aroclor-1254 | 4 | 9.798 | 0.001 | 108593 | 193.8 | 4 | 10.362 | 0.000 | 98830 | 211.2 | |
| Aroclor-1254 | 5 | 10.158 | 0.002 | 67667 | 185.7 | 5 | 10.561 | 0.000 | 45628 | 175.1 | |
| Total CollAve (5 peaks): | | | | 189.2 | | Total Col2Ave (5 peaks): | | | | 201.3 | RPD = 6 |
| Corrected Ave (4 peaks): | | | | 188.0 | | Corrected Ave (4 peaks): | | | | 198.4 | RPD = 5 |
| CalAmt %D: | | | | -24.3 | | CalAmt %D: | | | | -19.5 | |

Total PCB Area Col1 (5.907 - 13.789) = 1160114 Col1 Total PCB = 0.2 ppm*

Total PCB Area Col2 (5.783 - 14.016) = 920699 Col2 Total PCB = 0.2 ppm*

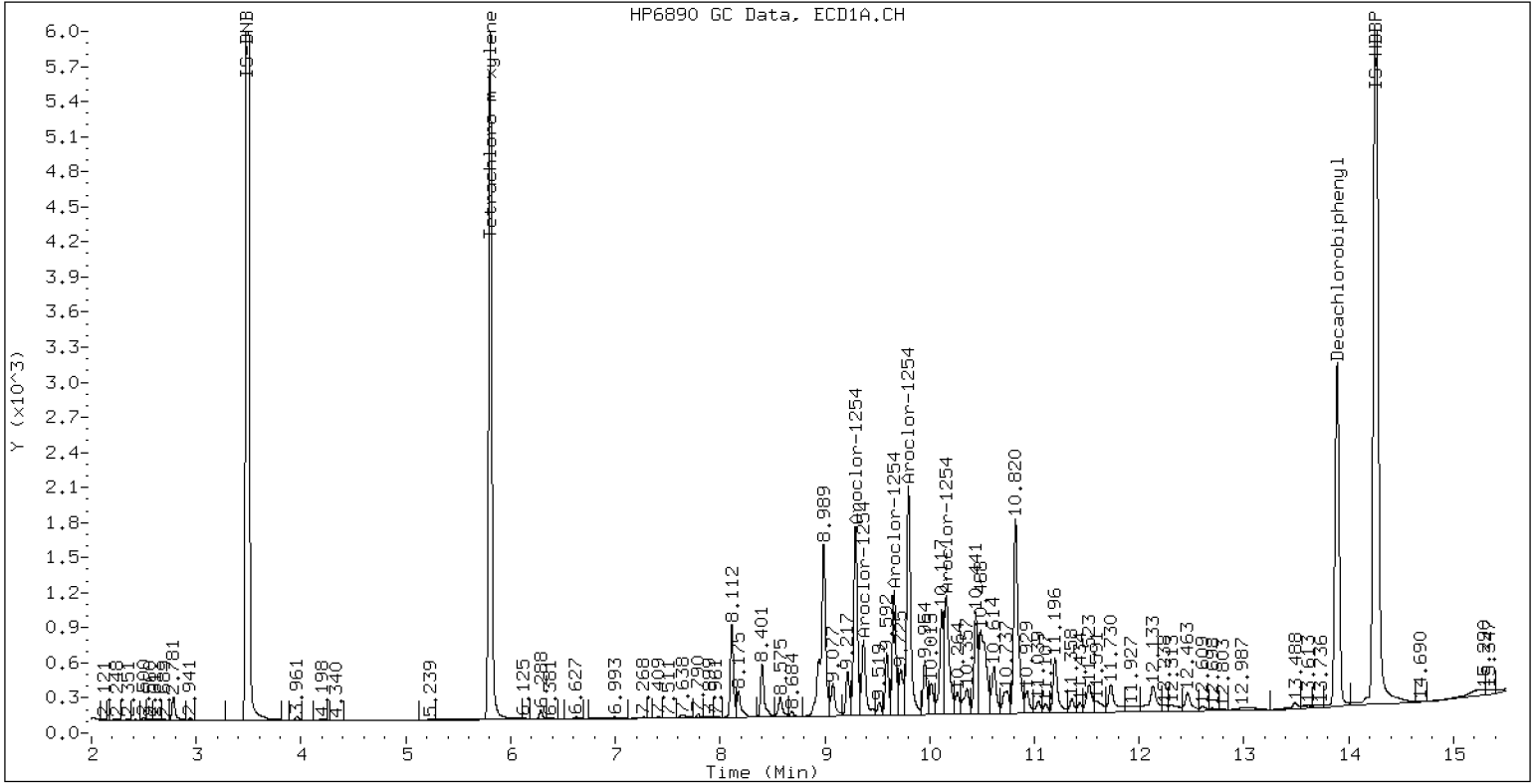
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 AR1254CCV5

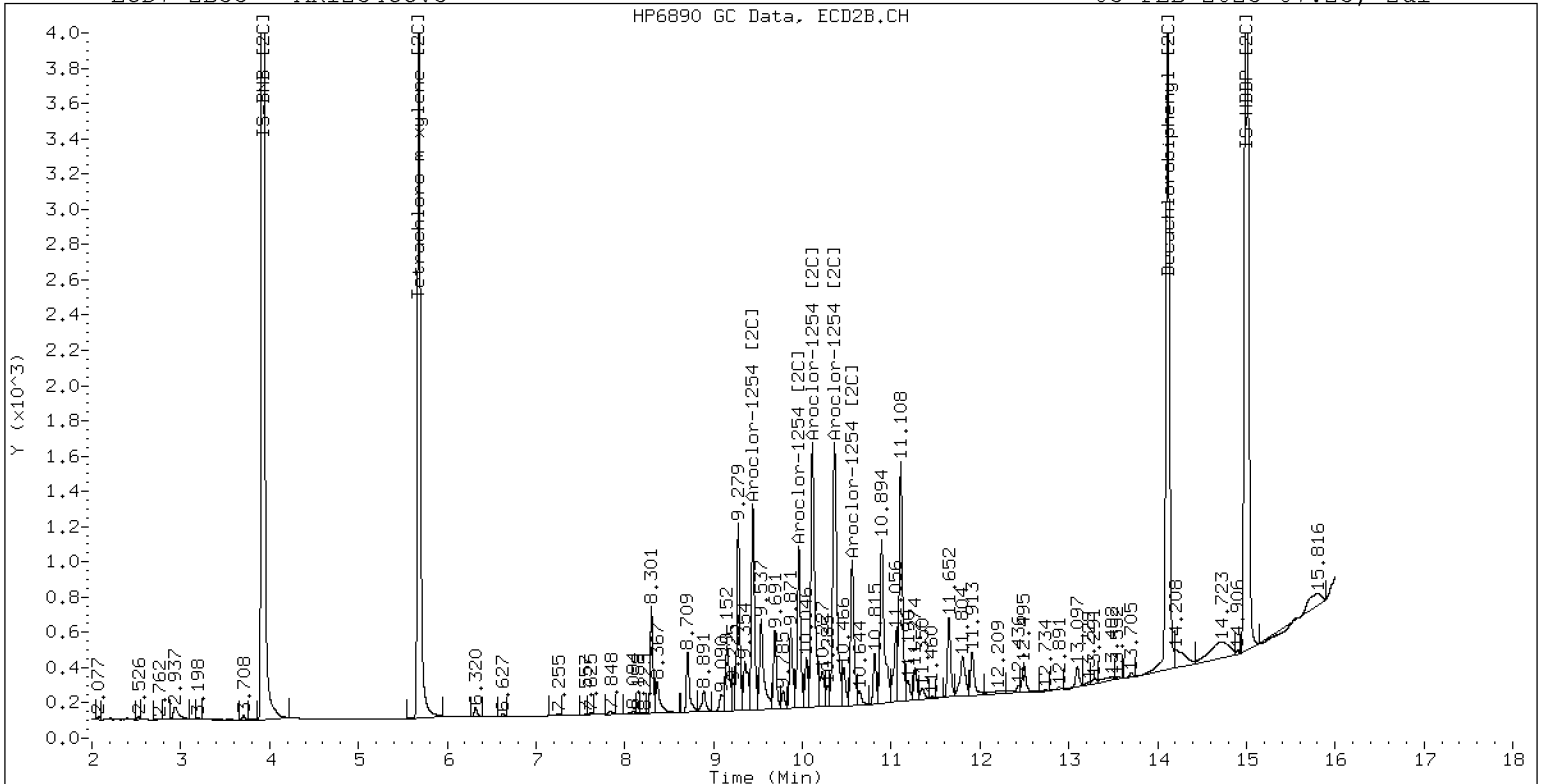
05-FEB-2023 07:23, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1254CCV5

05-FEB-2023 07:23, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230204.b/02042346ECD7.D
Data file 2: /230204.b/230204.b/02042346ECD7.D
Method: \\target\share\chem4\ecd7.i\230204.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660CCV6
Client ID:
Injection Date: 05-FEB-2023 07:44
Report Date: 02/06/2023 16:58
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

| ZB5 Col | | ZB35 Col | | | ZB5 | ZB35 | RPD | Compound/Flag | |
|---------|--------|----------|--------|--------|----------|--------|------|---------------|----------------------|
| RT | Shift | Response | RT | Shift | Response | on col | | | on col |
| 5.806 | -0.001 | 266706 | 5.683 | -0.000 | 208877 | 43.2 | 42.7 | 1.3 | Tetrachloro-m-xylene |
| 13.889 | -0.000 | 224579 | 14.115 | -0.001 | 252503 | 39.5 | 40.7 | 3.1 | Decachlorobiphenyl |

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1 | | | |
|--------------------|----------------|-------------|-------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 503318 | 436566 | -13.3 |
| Hexabromobiphenyl | 647433 | 532206 | -17.8 |

| Column 2 | | | |
|--------------------|----------------|-------------|-----|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 336911 | 362153 | 7.5 |
| Hexabromobiphenyl | 382032 | 390971 | 2.3 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-JAN-2023
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | | ZB35 Col | | | | |
|--------------------------|-------|--------|--------|--------|--------|--------------------------|--------|--------|--------|---------------|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount |
| Aroclor-1016 | 1 | 7.268 | -0.000 | 42210 | 260.2 | 1 | 7.251 | -0.000 | 51364 | 261.5 |
| Aroclor-1016 | 2 | 7.647 | -0.001 | 141252 | 262.8 | 2 | 7.847 | 0.000 | 111830 | 259.8 |
| Aroclor-1016 | 3 | 7.785 | -0.000 | 58481 | 236.5 | 3 | 8.047 | 0.000 | 47333 | 269.5 |
| Aroclor-1016 | 4 | 8.401 | 0.001 | 41206 | 259.0 | 4 | 8.302 | -0.000 | 35252 | 256.0 |
| Total CollAve (4 peaks): | | | | 254.6 | | Total Col2Ave (4 peaks): | | | | 261.7 RPD = 3 |
| Corrected Ave (3 peaks): | | | | 251.9 | | Corrected Ave (3 peaks): | | | | 259.1 RPD = 3 |
| CalAmt %D: | | | | 1.8 | | CalAmt %D: | | | | 4.7 |
| Aroclor-1260 | 1 | 11.040 | 0.001 | 76755 | 257.0 | 1 | 11.648 | 0.000 | 71982 | 255.2 |
| Aroclor-1260 | 2 | 11.357 | 0.001 | 78984 | 257.3 | 2 | 11.911 | 0.001 | 176426 | 247.2 |
| Aroclor-1260 | 3 | 11.729 | 0.001 | 197445 | 244.3 | 3 | 12.430 | -0.001 | 47059 | 264.6 |
| Aroclor-1260 | 4 | 12.131 | 0.000 | 102389 | 245.2 | 4 | 12.495 | 0.001 | 112782 | 244.2 |
| Aroclor-1260 | 5 | 12.240 | 0.001 | 42060 | 231.1 | NS | --- | | | ---- |
| Total CollAve (5 peaks): | | | | 247.0 | | Total Col2Ave (4 peaks): | | | | 252.8 RPD = 2 |
| Corrected Ave (4 peaks): | | | | 244.4 | | Corrected Ave (3 peaks): | | | | 248.9 RPD = 2 |
| CalAmt %D: | | | | -1.2 | | CalAmt %D: | | | | 1.1 |

Total PCB Area Coll (5.907 - 13.789) = 2278026 Coll Total PCB = 0.4 ppm*

Total PCB Area Col2 (5.783 - 14.016) = 1810016 Col2 Total PCB = 0.5 ppm*

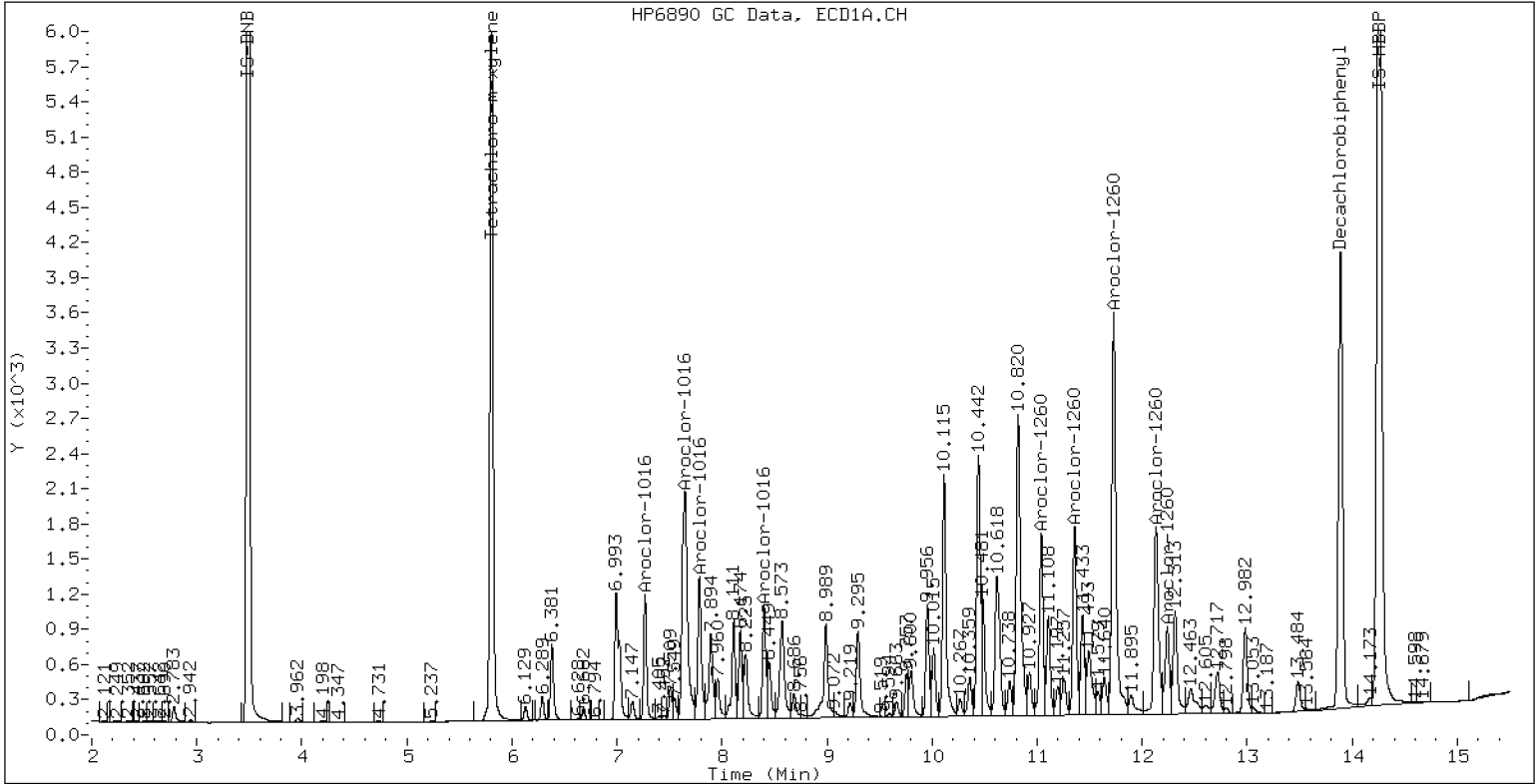
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCV6

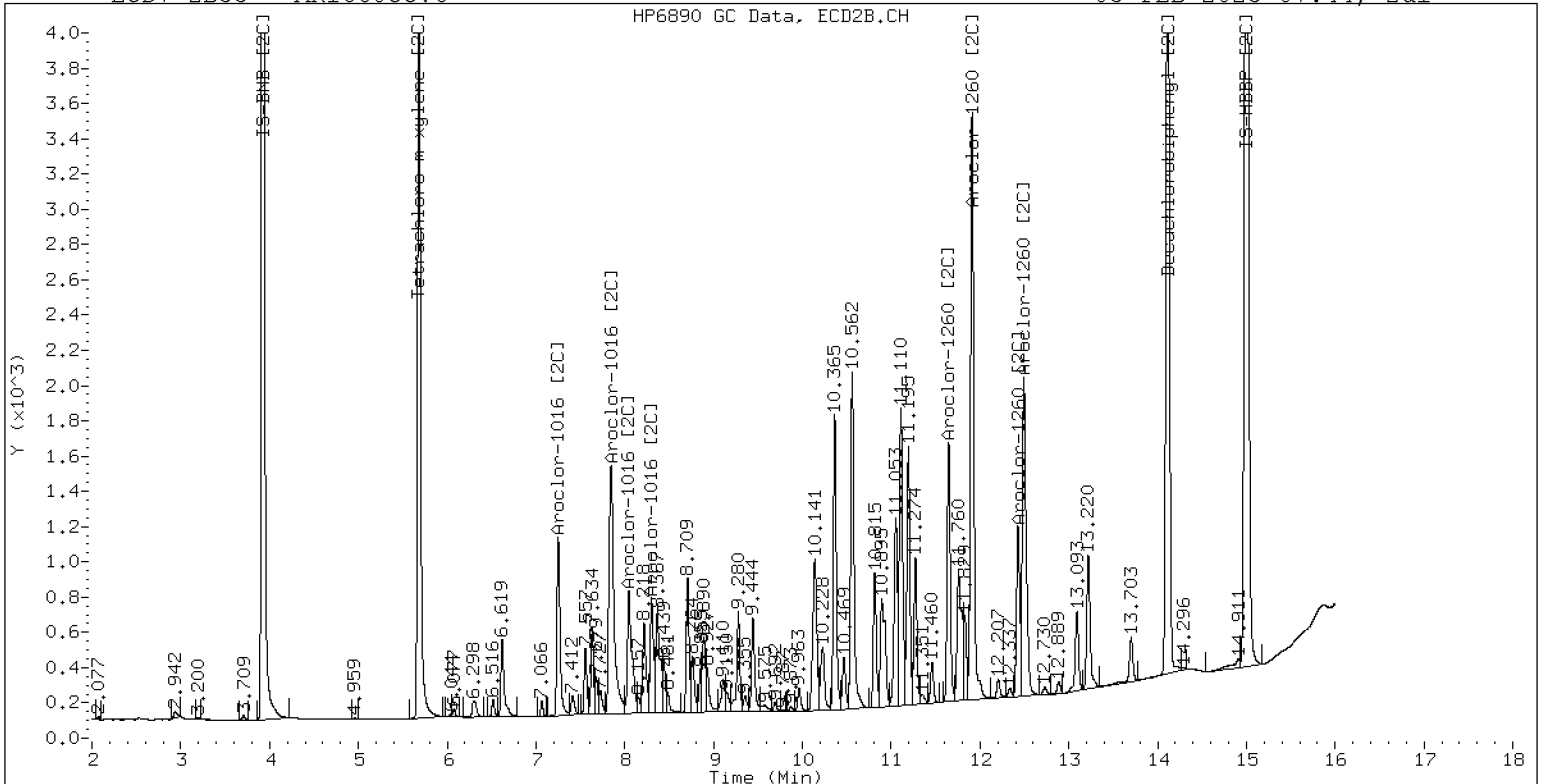
05-FEB-2023 07:44, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660CCV6

05-FEB-2023 07:44, 2ul



ZB-35 Manual Integration: NO



CONTINUING CALIBRATION CHECK
EPA 8082A

| | | | |
|----------------|----------------------------------|-------------------|------------------------|
| Laboratory: | <u>Analytical Resources, LLC</u> | SDG: | <u>23A0180</u> |
| Client: | <u>Anchor QEA, LLC</u> | Project: | <u>AOC5 MR Phase 1</u> |
| Instrument ID: | <u>ECD7</u> | Calibration: | <u>GA00061</u> |
| Lab File ID: | <u>02042358ECD7.D</u> | Calibration Date: | <u>01/24/2023</u> |
| Sequence: | <u>SLB0084</u> | Injection Date: | <u>02/05/23</u> |
| Lab Sample ID: | <u>SLB0084-CCV7</u> | Injection Time: | <u>11:57</u> |
| Sequence Name: | <u>AR1248CCV7</u> | | |

| COMPOUND | TYPE | CONC. (ug/L) | | RESPONSE FACTOR (RRF) | | | % DRIFT/DIFF | |
|----------------------------|------|--------------|------|-----------------------|-----------|-----|--------------|---------|
| | | STD | CCV | ICAL | CCV | MIN | CCV | LIMIT |
| Aroclor 1248 | A | 250.00 | 199 | 0.0592639 | 0.0450994 | | -20.6 | +/-20 * |
| Aroclor-1248 (1) | A | 250.00 | 240 | | 0.0384675 | | | |
| Aroclor-1248 (2) | A | 250.00 | 234 | | 0.0478993 | | | |
| Aroclor-1248 (3) | A | 250.00 | 162 | | 0.0634619 | | | |
| Aroclor-1248 (4) | A | 250.00 | 158 | | 0.0305689 | | | |
| Aroclor 1248 [2C] | A | 250.00 | 236 | 0.0453673 | 0.0426378 | | -5.5 | +/-20 |
| Aroclor-1248 (1) [2C] | A | 250.00 | 250 | | 0.0361061 | | | |
| Aroclor-1248 (2) [2C] | A | 250.00 | 228 | | 0.0355424 | | | |
| Aroclor-1248 (3) [2C] | A | 250.00 | 241 | | 0.0458339 | | | |
| Aroclor-1248 (4) [2C] | A | 250.00 | 226 | | 0.0530689 | | | |
| Decachlorobiphenyl | A | 40.000 | 36.3 | 0.8555994 | 0.7766596 | | -9.3 | +/-20 |
| Tetrachlorometaxylene | A | 40.000 | 40.7 | 1.1307870 | 1.1498010 | | 1.8 | +/-20 |
| Decachlorobiphenyl [2C] | A | 40.000 | 39.2 | 1.2696430 | 1.2451310 | | -2.0 | +/-20 |
| Tetrachlorometaxylene [2C] | A | 40.000 | 41.8 | 1.0814980 | 1.1292330 | | 4.5 | +/-20 |

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230204.b/02042358ECD7.D
Data file 2: /230204.b/230204.b/02042358ECD7.D
Method: \\target\share\chem4\ecd7.i\230204.b\PCB.m
Compound Sublist: AR1248.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1248CCV7
Client ID:
Injection Date: 05-FEB-2023 11:57
Report Date: 02/06/2023 16:58
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

| RT | ZB5 Col Shift | Response | RT | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag |
|--------|---------------|----------|--------|----------------|----------|------------|-------------|-----|----------------------|
| 5.806 | -0.002 | 243813 | 5.682 | -0.001 | 204176 | 40.7 | 41.8 | 2.7 | Tetrachloro-m-xylene |
| 13.889 | 0.000 | 160680 | 14.115 | -0.001 | 200824 | 36.3 | 39.2 | 7.7 | Decachlorobiphenyl |

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | |
|--------------------|----------------|-------------|-------|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 503318 | 424096 | -15.7 |
| Hexabromobiphenyl | 647433 | 413772 | -36.1 |

| Standard Cpnd | Column 2 | | |
|--------------------|----------------|-------------|-------|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 336911 | 361619 | 7.3 |
| Hexabromobiphenyl | 382032 | 322575 | -15.6 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-JAN-2023
<- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col ZB35 Col

| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount | |
|--------------------------|-------|-------|--------|-------|--------------------------|-------|-------|-------|-------|----------|--|
| Aroclor-1248 | 1 | 8.400 | -0.000 | 50981 | 240.3 | 1 | 8.302 | 0.000 | 40802 | 249.6 | |
| Aroclor-1248 | 2 | 8.573 | 0.000 | 63481 | 234.6 | 2 | 8.708 | 0.000 | 40165 | 228.3 | |
| Aroclor-1248 | 3 | 8.991 | -0.002 | 84106 | 162.5 | 3 | 9.150 | 0.000 | 51795 | 240.9 | |
| Aroclor-1248 | 4 | 9.290 | -0.001 | 40513 | 158.1 | 4 | 9.572 | 0.000 | 59971 | 225.6 | |
| Total Col1Ave (4 peaks): | | | | 198.9 | Total Col2Ave (4 peaks): | | | | 236.1 | RPD = 17 | |
| Corrected Ave (3 peaks): | | | | 185.1 | Corrected Ave (3 peaks): | | | | 231.6 | RPD = 22 | |
| CalAmt %D: | | | | -20.5 | CalAmt %D: | | | | -5.6 | | |

Total PCB Area Col1 (5.907 - 13.789) = 930626 Col1 Total PCB = 0.2 ppm*

Total PCB Area Col2 (5.783 - 14.016) = 772997 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.



CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: ECD7

Calibration: GA00061

Lab File ID: 02042359ECD7.D

Calibration Date: 01/24/2023

Sequence: SLB0084

Injection Date: 02/05/23

Lab Sample ID: SLB0084-CCV8

Injection Time: 12:18

Sequence Name: AR1660CCV8

| COMPOUND | TYPE | CONC. (ug/L) | | RESPONSE FACTOR (RRF) | | | % DRIFT/DIFF | |
|----------------------------|------|--------------|------|-----------------------|-----------|-----|--------------|-------|
| | | STD | CCV | ICAL | CCV | MIN | CCV | LIMIT |
| Aroclor 1016 | A | 250.00 | 258 | 0.0506755 | 0.0524716 | | 3.1 | +/-20 |
| Aroclor-1016 (1) | A | 250.00 | 263 | 0.0297277 | 0.0312768 | | 5.2 | |
| Aroclor-1016 (2) | A | 250.00 | 265 | 0.0985017 | 0.1043906 | | 6.0 | |
| Aroclor-1016 (3) | A | 250.00 | 239 | 0.0453193 | 0.0434034 | | -4.4 | |
| Aroclor-1016 (4) | A | 250.00 | 264 | 0.0291533 | 0.0308155 | | 5.6 | |
| Aroclor 1016 [2C] | A | 250.00 | 262 | 0.0519244 | 0.0544554 | | 4.9 | +/-20 |
| Aroclor-1016 (1) [2C] | A | 250.00 | 264 | 0.0433907 | 0.0457463 | | 5.6 | |
| Aroclor-1016 (2) [2C] | A | 250.00 | 260 | 0.0950862 | 0.0990929 | | 4.0 | |
| Aroclor-1016 (3) [2C] | A | 250.00 | 269 | 0.0388014 | 0.0418109 | | 7.6 | |
| Aroclor-1016 (4) [2C] | A | 250.00 | 256 | 0.0304194 | 0.0311716 | | 2.4 | |
| Aroclor 1260 | A | 250.00 | 244 | 0.0605224 | 0.0592808 | | -2.3 | +/-20 |
| Aroclor-1260 (1) | A | 250.00 | 264 | 0.0448870 | 0.0473624 | | 5.6 | |
| Aroclor-1260 (2) | A | 250.00 | 258 | 0.0461412 | 0.0475371 | | 3.2 | |
| Aroclor-1260 (3) | A | 250.00 | 243 | 0.1214672 | 0.1181483 | | -2.8 | |
| Aroclor-1260 (4) | A | 250.00 | 236 | 0.0627593 | 0.0593060 | | -5.6 | |
| Aroclor-1260 (5) | A | 250.00 | 220 | 0.0273573 | 0.0240500 | | -12.0 | |
| Aroclor 1260 [2C] | A | 250.00 | 261 | 0.0836545 | 0.0858317 | | 4.4 | +/-20 |
| Aroclor-1260 (1) [2C] | A | 250.00 | 267 | 0.0577136 | 0.0615921 | | 6.8 | |
| Aroclor-1260 (2) [2C] | A | 250.00 | 249 | 0.1460113 | 0.1456362 | | -0.4 | |
| Aroclor-1260 (3) [2C] | A | 250.00 | 274 | 0.0363944 | 0.0398939 | | 9.6 | |
| Aroclor-1260 (4) [2C] | A | 250.00 | 254 | 0.0944986 | 0.0962045 | | 1.6 | |
| Decachlorobiphenyl | A | 40.000 | 39.6 | 0.8555994 | 0.8465271 | | -1.0 | +/-20 |
| Tetrachlorometaxylene | A | 40.000 | 43.6 | 1.1307870 | 1.2336560 | | 9.0 | +/-20 |
| Decachlorobiphenyl [2C] | A | 40.000 | 41.1 | 1.2696430 | 1.3057580 | | 2.8 | +/-20 |
| Tetrachlorometaxylene [2C] | A | 40.000 | 43.1 | 1.0814980 | 1.1658650 | | 7.8 | +/-20 |

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230204.b/02042359ECD7.D
Data file 2: /230204.b/230204.b/02042359ECD7.D
Method: \\target\share\chem4\ecd7.i\230204.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660CCV8
Client ID:
Injection Date: 05-FEB-2023 12:18
Report Date: 02/06/2023 16:58
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

| RT | ZB5 Col Shift | Response | RT | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag |
|--------|---------------|----------|--------|----------------|----------|------------|-------------|-----|----------------------|
| 5.806 | -0.002 | 259700 | 5.683 | 0.000 | 208940 | 43.6 | 43.1 | 1.2 | Tetrachloro-m-xylene |
| 13.888 | -0.000 | 206236 | 14.116 | 0.000 | 240029 | 39.6 | 41.1 | 3.9 | Decachlorobiphenyl |

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | |
|--------------------|----------------|-------------|-------|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 503318 | 421025 | -16.4 |
| Hexabromobiphenyl | 647433 | 487252 | -24.7 |

| Standard Cpnd | Column 2 | | |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 336911 | 358429 | 6.4 |
| Hexabromobiphenyl | 382032 | 367647 | -3.8 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-JAN-2023
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | | ZB35 Col | | | | | |
|--------------------------|-------|--------|--------|--------|--------------------------|----------|--------|-------|--------|---------|--|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount | |
| Aroclor-1016 | 1 | 7.267 | -0.001 | 41151 | 263.0 | 1 | 7.251 | 0.000 | 51240 | 263.6 | |
| Aroclor-1016 | 2 | 7.648 | -0.000 | 137347 | 264.9 | 2 | 7.847 | 0.000 | 110993 | 260.5 | |
| Aroclor-1016 | 3 | 7.785 | -0.001 | 57106 | 239.4 | 3 | 8.047 | 0.000 | 46832 | 269.4 | |
| Aroclor-1016 | 4 | 8.400 | -0.000 | 40544 | 264.3 | 4 | 8.302 | 0.000 | 34915 | 256.2 | |
| Total CollAve (4 peaks): | | | | 257.9 | Total Col2Ave (4 peaks): | | | | 262.4 | RPD = 2 | |
| Corrected Ave (3 peaks): | | | | 255.6 | Corrected Ave (3 peaks): | | | | 260.1 | RPD = 2 | |
| CalAmt %D: | | | | 3.2 | CalAmt %D: | | | | 5.0 | | |
| Aroclor-1260 | 1 | 11.038 | -0.001 | 72117 | 263.8 | 1 | 11.648 | 0.000 | 70763 | 266.8 | |
| Aroclor-1260 | 2 | 11.355 | -0.001 | 72383 | 257.6 | 2 | 11.911 | 0.000 | 167321 | 249.4 | |
| Aroclor-1260 | 3 | 11.728 | -0.001 | 179900 | 243.2 | 3 | 12.430 | 0.000 | 45834 | 274.0 | |
| Aroclor-1260 | 4 | 12.131 | -0.001 | 90303 | 236.2 | 4 | 12.495 | 0.000 | 110529 | 254.5 | |
| Aroclor-1260 | 5 | 12.239 | -0.000 | 36620 | 219.8 | NS | --- | | | ---- | |
| Total CollAve (5 peaks): | | | | 244.1 | Total Col2Ave (4 peaks): | | | | 261.2 | RPD = 7 | |
| Corrected Ave (4 peaks): | | | | 239.2 | Corrected Ave (3 peaks): | | | | 256.9 | RPD = 7 | |
| CalAmt %D: | | | | -2.4 | CalAmt %D: | | | | 4.5 | | |

Total PCB Area Coll (5.907 - 13.789) = 2156521 Coll Total PCB = 0.4 ppm*

Total PCB Area Col2 (5.783 - 14.016) = 1787795 Col2 Total PCB = 0.5 ppm*

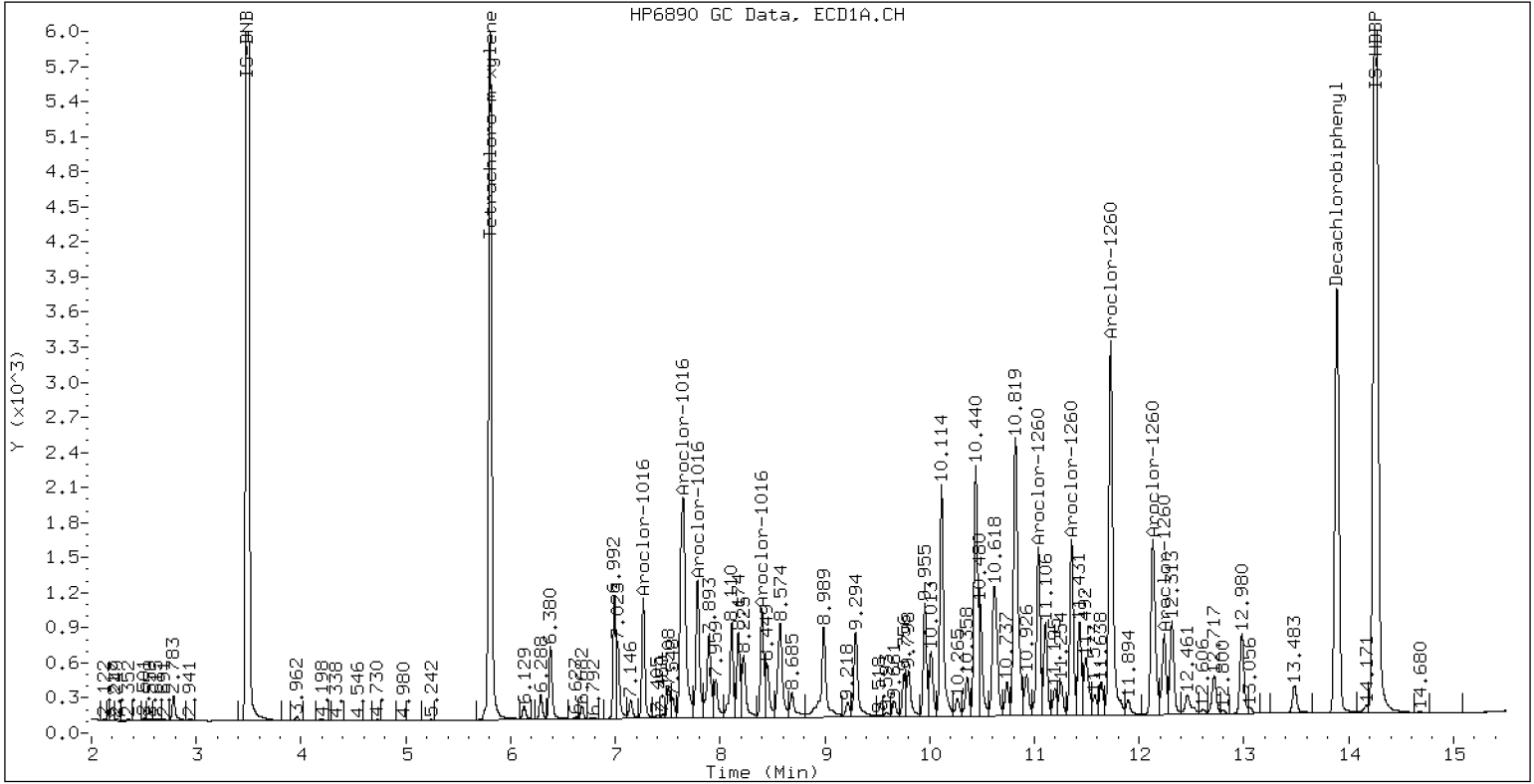
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCV8

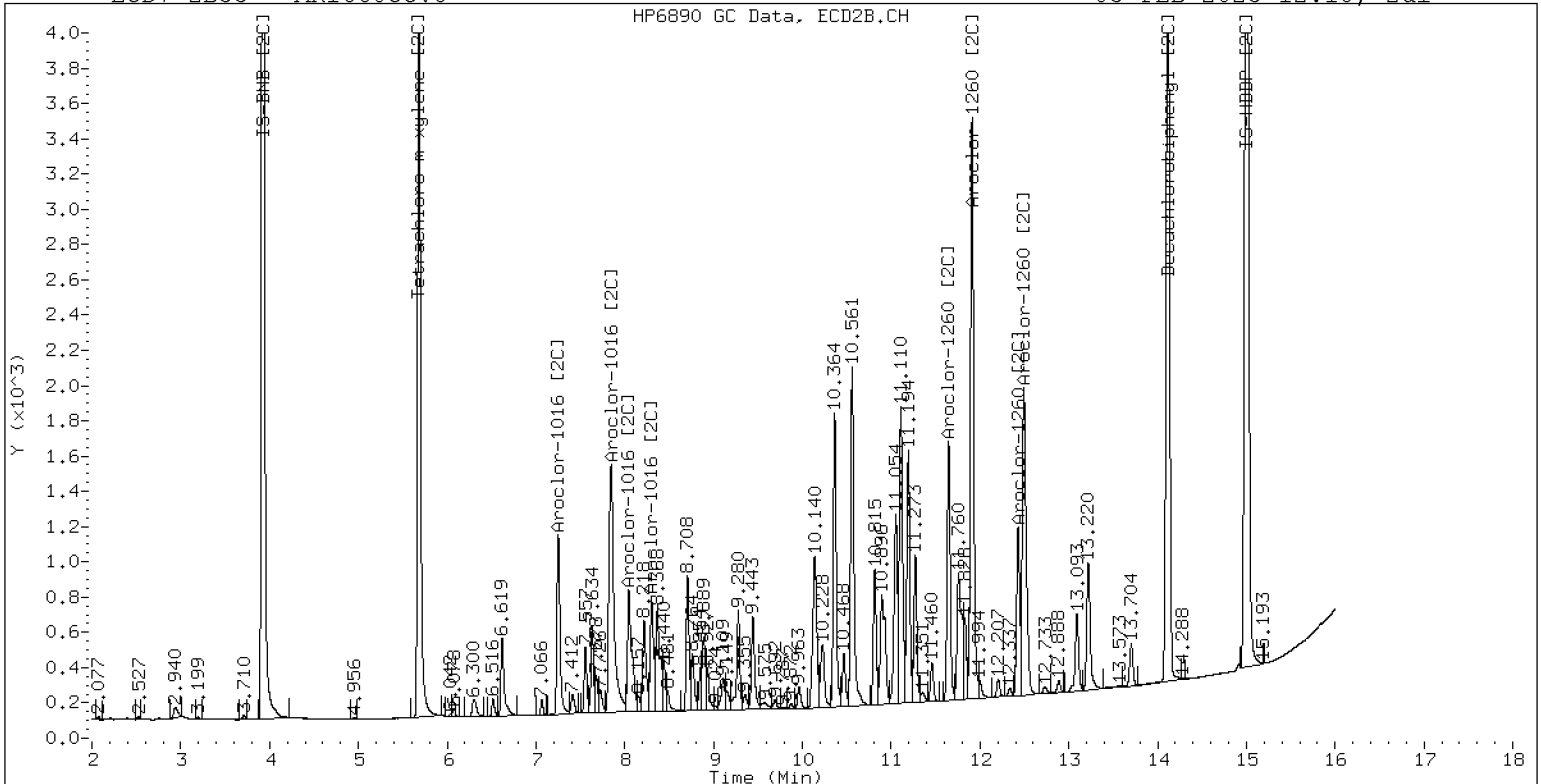
05-FEB-2023 12:18, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660CCV8

05-FEB-2023 12:18, 2ul



ZB-35 Manual Integration: NO



CONTINUING CALIBRATION CHECK
EPA 8082A

| | | | |
|----------------|----------------------------------|-------------------|------------------------|
| Laboratory: | <u>Analytical Resources, LLC</u> | SDG: | <u>23A0180</u> |
| Client: | <u>Anchor QEA, LLC</u> | Project: | <u>AOC5 MR Phase 1</u> |
| Instrument ID: | <u>ECD7</u> | Calibration: | <u>GA00061</u> |
| Lab File ID: | <u>02062313ECD7.D</u> | Calibration Date: | <u>01/24/2023</u> |
| Sequence: | <u>SLB0086</u> | Injection Date: | <u>02/06/23</u> |
| Lab Sample ID: | <u>SLB0086-CCV1</u> | Injection Time: | <u>13:46</u> |
| Sequence Name: | <u>AR1248CCV1</u> | | |

| COMPOUND | TYPE | CONC. (ug/L) | | RESPONSE FACTOR (RRF) | | | % DRIFT/DIFF | |
|----------------------------|------|--------------|------|-----------------------|-----------|-----|--------------|-------|
| | | STD | CCV | ICAL | CCV | MIN | CCV | LIMIT |
| Aroclor 1248 | A | 250.00 | 211 | 0.0592639 | 0.0477784 | | -15.8 | +/-20 |
| Aroclor-1248 (1) | A | 250.00 | 251 | | 0.0401248 | | | |
| Aroclor-1248 (2) | A | 250.00 | 246 | | 0.0501395 | | | |
| Aroclor-1248 (3) | A | 250.00 | 174 | | 0.0678290 | | | |
| Aroclor-1248 (4) | A | 250.00 | 171 | | 0.0330205 | | | |
| Aroclor 1248 [2C] | A | 250.00 | 249 | 0.0453673 | 0.0450094 | | -0.5 | +/-20 |
| Aroclor-1248 (1) [2C] | A | 250.00 | 260 | | 0.0376778 | | | |
| Aroclor-1248 (2) [2C] | A | 250.00 | 240 | | 0.0373194 | | | |
| Aroclor-1248 (3) [2C] | A | 250.00 | 255 | | 0.0484480 | | | |
| Aroclor-1248 (4) [2C] | A | 250.00 | 240 | | 0.0565926 | | | |
| Decachlorobiphenyl | A | 40.000 | 36.6 | 0.8555994 | 0.7823365 | | -8.5 | +/-20 |
| Tetrachlorometaxylene | A | 40.000 | 40.8 | 1.1307870 | 1.1529250 | | 2.0 | +/-20 |
| Decachlorobiphenyl [2C] | A | 40.000 | 38.4 | 1.2696430 | 1.2182150 | | -4.0 | +/-20 |
| Tetrachlorometaxylene [2C] | A | 40.000 | 40.9 | 1.0814980 | 1.1054020 | | 2.3 | +/-20 |

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230206.b/02062313ECD7.D
Data file 2: /230206.b/230206.b/02062313ECD7.D
Method: \\target\share\chem4\ecd7.i\230206.b\PCB.m
Compound Sublist: AR1248.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1248CCV1
Client ID:
Injection Date: 06-FEB-2023 13:46
Report Date: 02/07/2023 10:35
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

| RT | ZB5 Col Shift | Response | RT | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag |
|--------|---------------|----------|--------|----------------|----------|------------|-------------|-----|----------------------|
| 5.808 | -0.001 | 234079 | 5.685 | 0.001 | 207274 | 40.8 | 40.9 | 0.2 | Tetrachloro-m-xylene |
| 13.889 | -0.002 | 255188 | 14.118 | 0.001 | 297795 | 36.6 | 38.4 | 4.8 | Decachlorobiphenyl |

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | |
|--------------------|----------------|-------------|-------|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 503318 | 406061 | -19.3 |
| Hexabromobiphenyl | 647433 | 652374 | 0.8 |

| Standard Cpnd | Column 2 | | |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 336911 | 375020 | 11.3 |
| Hexabromobiphenyl | 382032 | 488904 | 28.0 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-JAN-2023
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | | ZB35 Col | | | | | |
|--------------------------|-------|-------|--------|-------|--------|--------------------------|-------|--------|-------|--------|----------|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount | |
| Aroclor-1248 | 1 | 8.402 | -0.004 | 50916 | 250.7 | 1 | 8.304 | 0.002 | 44156 | 260.5 | |
| Aroclor-1248 | 2 | 8.574 | -0.006 | 63624 | 245.5 | 2 | 8.710 | 0.000 | 43736 | 239.7 | |
| Aroclor-1248 | 3 | 8.993 | -0.006 | 86071 | 173.7 | 3 | 9.152 | -0.000 | 56778 | 254.7 | |
| Aroclor-1248 | 4 | 9.293 | -0.001 | 41901 | 170.8 | 4 | 9.576 | 0.000 | 66323 | 240.5 | |
| Total CollAve (4 peaks): | | | | 210.2 | | Total Col2Ave (4 peaks): | | | | 248.8 | RPD = 17 |
| Corrected Ave (3 peaks): | | | | 196.7 | | Corrected Ave (3 peaks): | | | | 245.0 | RPD = 22 |
| CalAmt %D: | | | | -15.9 | | CalAmt %D: | | | | -0.5 | |

Total PCB Area Col1 (5.909 - 13.792) = 957915 Col1 Total PCB = 0.2 ppm*

Total PCB Area Col2 (5.784 - 14.017) = 860378 Col2 Total PCB = 0.2 ppm*

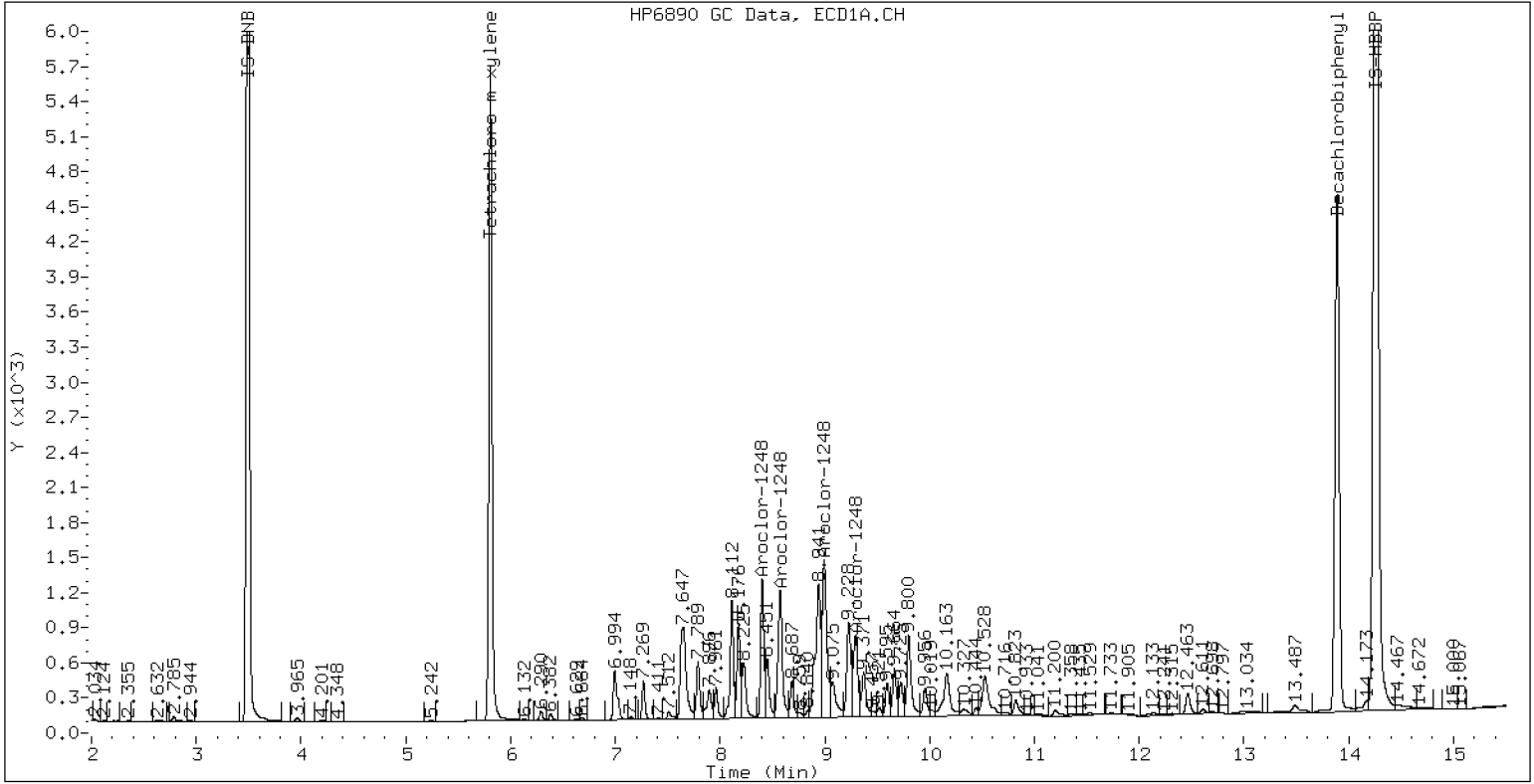
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 AR1248CCV1

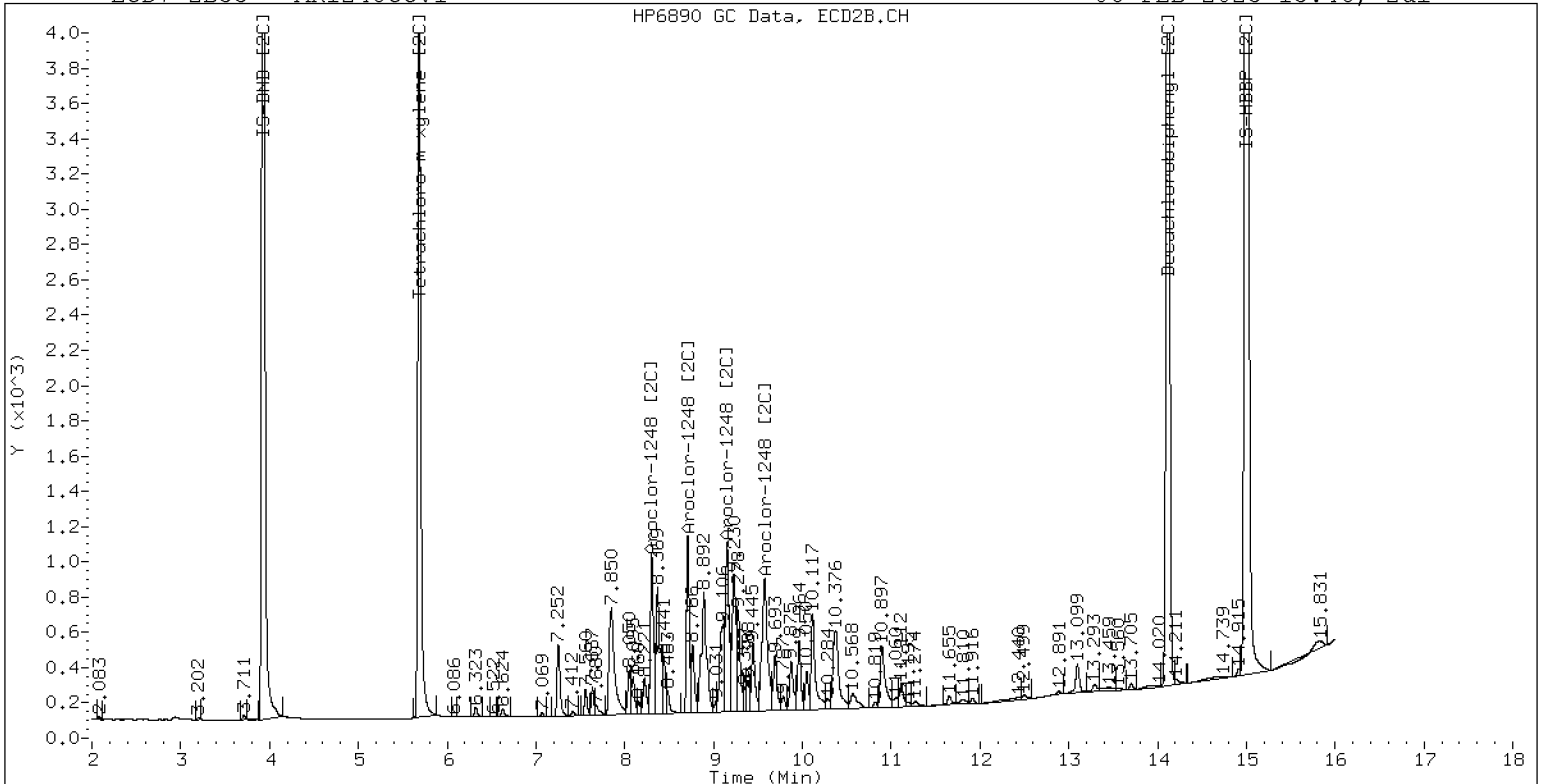
06-FEB-2023 13:46, 2u1



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1248CCV1

06-FEB-2023 13:46, 2u1



ZB-35 Manual Integration: NO



CONTINUING CALIBRATION CHECK EPA 8082A

| | | | |
|----------------|----------------------------------|-------------------|------------------------|
| Laboratory: | <u>Analytical Resources, LLC</u> | SDG: | <u>23A0180</u> |
| Client: | <u>Anchor QEA, LLC</u> | Project: | <u>AOC5 MR Phase 1</u> |
| Instrument ID: | <u>ECD7</u> | Calibration: | <u>GA00061</u> |
| Lab File ID: | <u>02062314ECD7.D</u> | Calibration Date: | <u>01/24/2023</u> |
| Sequence: | <u>SLB0086</u> | Injection Date: | <u>02/06/23</u> |
| Lab Sample ID: | <u>SLB0086-CCV2</u> | Injection Time: | <u>14:07</u> |
| Sequence Name: | <u>AR1660CCV2</u> | | |

| COMPOUND | TYPE | CONC. (ug/L) | | RESPONSE FACTOR (RRF) | | | % DRIFT/DIFF | |
|----------------------------|------|--------------|------|-----------------------|-----------|-----|--------------|-------|
| | | STD | CCV | ICAL | CCV | MIN | CCV | LIMIT |
| Aroclor 1016 | A | 250.00 | 253 | 0.0506755 | 0.0514286 | | 1.2 | +/-20 |
| Aroclor-1016 (1) | A | 250.00 | 258 | 0.0297277 | 0.0306728 | | 3.2 | |
| Aroclor-1016 (2) | A | 250.00 | 259 | 0.0985017 | 0.1021297 | | 3.6 | |
| Aroclor-1016 (3) | A | 250.00 | 235 | 0.0453193 | 0.0425564 | | -6.0 | |
| Aroclor-1016 (4) | A | 250.00 | 260 | 0.0291533 | 0.0303555 | | 4.0 | |
| Aroclor 1016 [2C] | A | 250.00 | 261 | 0.0519244 | 0.0539263 | | 4.2 | +/-20 |
| Aroclor-1016 (1) [2C] | A | 250.00 | 260 | 0.0433907 | 0.0452020 | | 4.0 | |
| Aroclor-1016 (2) [2C] | A | 250.00 | 257 | 0.0950862 | 0.0976358 | | 2.8 | |
| Aroclor-1016 (3) [2C] | A | 250.00 | 269 | 0.0388014 | 0.0417566 | | 7.6 | |
| Aroclor-1016 (4) [2C] | A | 250.00 | 256 | 0.0304194 | 0.0311108 | | 2.4 | |
| Aroclor 1260 | A | 250.00 | 201 | 0.0605224 | 0.0489076 | | -19.6 | +/-20 |
| Aroclor-1260 (1) | A | 250.00 | 207 | 0.0448870 | 0.0372116 | | -17.2 | |
| Aroclor-1260 (2) | A | 250.00 | 208 | 0.0461412 | 0.0384966 | | -16.8 | |
| Aroclor-1260 (3) | A | 250.00 | 201 | 0.1214672 | 0.0977981 | | -19.6 | |
| Aroclor-1260 (4) | A | 250.00 | 201 | 0.0627593 | 0.0504047 | | -19.6 | |
| Aroclor-1260 (5) | A | 250.00 | 188 | 0.0273573 | 0.0206271 | | -24.8 | |
| Aroclor 1260 [2C] | A | 250.00 | 230 | 0.0836545 | 0.0752591 | | -8.2 | +/-20 |
| Aroclor-1260 (1) [2C] | A | 250.00 | 228 | 0.0577136 | 0.0526667 | | -8.8 | |
| Aroclor-1260 (2) [2C] | A | 250.00 | 218 | 0.1460113 | 0.1272518 | | -12.8 | |
| Aroclor-1260 (3) [2C] | A | 250.00 | 247 | 0.0363944 | 0.0359926 | | -1.2 | |
| Aroclor-1260 (4) [2C] | A | 250.00 | 225 | 0.0944986 | 0.0851253 | | -10.0 | |
| Decachlorobiphenyl | A | 40.000 | 38.2 | 0.8555994 | 0.8176516 | | -4.5 | +/-20 |
| Tetrachlorometaxylene | A | 40.000 | 42.8 | 1.1307870 | 1.2093000 | | 7.0 | +/-20 |
| Decachlorobiphenyl [2C] | A | 40.000 | 41.8 | 1.2696430 | 1.3260490 | | 4.5 | +/-20 |
| Tetrachlorometaxylene [2C] | A | 40.000 | 42.8 | 1.0814980 | 1.1563590 | | 7.0 | +/-20 |

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230206.b/02062314ECD7.D
Data file 2: /230206.b/230206.b/02062314ECD7.D
Method: \\target\share\chem4\ecd7.i\230206.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660CCV2
Client ID:
Injection Date: 06-FEB-2023 14:07
Report Date: 02/07/2023 10:35
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

| ZB5 Col | | ZB35 Col | | | ZB5 | ZB35 | RPD | Compound/Flag | |
|---------|--------|----------|--------|-------|----------|--------|------|---------------|----------------------|
| RT | Shift | Response | RT | Shift | Response | on col | | | on col |
| 5.808 | -0.001 | 250010 | 5.685 | 0.001 | 218667 | 42.8 | 42.8 | 0.0 | Tetrachloro-m-xylene |
| 13.890 | -0.002 | 281905 | 14.118 | 0.001 | 337770 | 38.2 | 41.8 | 8.9 | Decachlorobiphenyl |

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1 | | | |
|--------------------|----------------|-------------|-------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 503318 | 413479 | -17.8 |
| Hexabromobiphenyl | 647433 | 689548 | 6.5 |
| Column 2 | | | |
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 336911 | 378199 | 12.3 |
| Hexabromobiphenyl | 382032 | 509438 | 33.3 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-JAN-2023
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | ZB35 Col | | | | | | |
|--------------------------|-------|-------|--------|--------|----------|--------------------------|-------|--------|--------|--------|---------|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount | |
| Aroclor-1016 | 1 | 7.269 | -0.000 | 39633 | 257.9 | 1 | 7.254 | 0.001 | 53423 | 260.4 | |
| Aroclor-1016 | 2 | 7.649 | -0.001 | 131964 | 259.2 | 2 | 7.848 | -0.000 | 115393 | 256.7 | |
| Aroclor-1016 | 3 | 7.787 | -0.002 | 54988 | 234.8 | 3 | 8.050 | 0.001 | 49351 | 269.0 | |
| Aroclor-1016 | 4 | 8.402 | -0.002 | 39223 | 260.3 | 4 | 8.304 | 0.001 | 36769 | 255.7 | |
| Total CollAve (4 peaks): | | | | 253.1 | | Total Col2Ave (4 peaks): | | | | 260.5 | RPD = 3 |
| Corrected Ave (3 peaks): | | | | 250.6 | | Corrected Ave (3 peaks): | | | | 257.6 | RPD = 3 |

CalAmt %D: 1.2

CalAmt %D: 4.2

| | | | | | | | | | | | |
|--------------------------|---|--------|--------|--------|-------|--------------------------|--------|--------|--------|-------|----------|
| Aroclor-1260 | 1 | 11.040 | -0.004 | 80185 | 207.3 | 1 | 11.650 | 0.001 | 83845 | 228.1 | |
| Aroclor-1260 | 2 | 11.357 | -0.004 | 82954 | 208.6 | 2 | 11.913 | 0.001 | 202584 | 217.9 | |
| Aroclor-1260 | 3 | 11.729 | -0.005 | 210739 | 201.3 | 3 | 12.432 | 0.001 | 57300 | 247.2 | |
| Aroclor-1260 | 4 | 12.133 | -0.006 | 108614 | 200.8 | 4 | 12.496 | -0.000 | 135519 | 225.2 | |
| Aroclor-1260 | 5 | 12.240 | -0.004 | 44448 | 188.5 | NS | --- | | | ---- | |
| Total CollAve (5 peaks): | | | | 201.3 | | Total Col2Ave (4 peaks): | | | | 229.6 | RPD = 13 |
| Corrected Ave (4 peaks): | | | | 199.5 | | Corrected Ave (3 peaks): | | | | 223.7 | RPD = 11 |

CalAmt %D: -19.5

CalAmt %D: -8.2

Total PCB Area Coll (5.909 - 13.792) = 2300970 Coll Total PCB = 0.5 ppm*

Total PCB Area Col2 (5.784 - 14.017) = 2027218 Col2 Total PCB = 0.5 ppm*

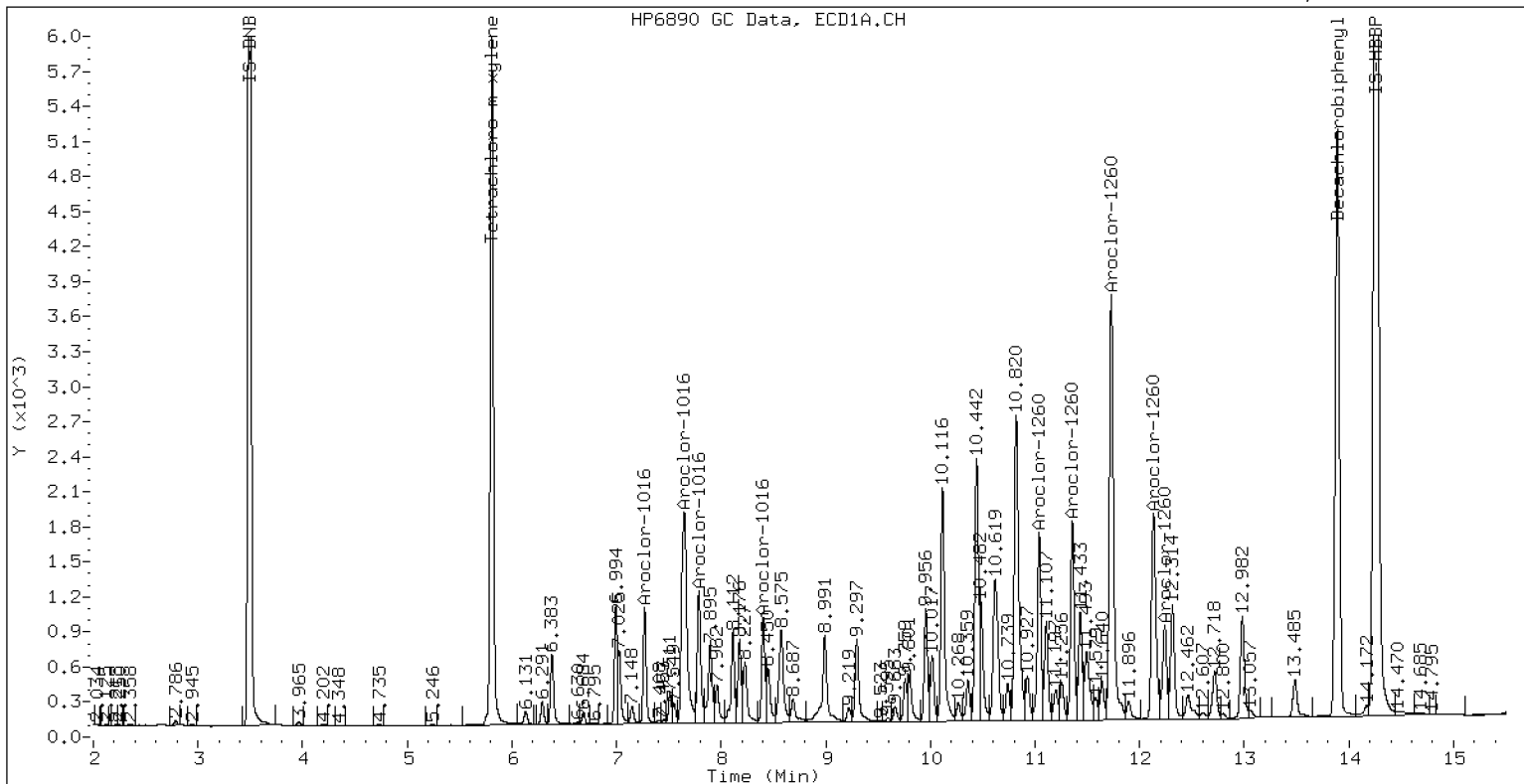
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCV2

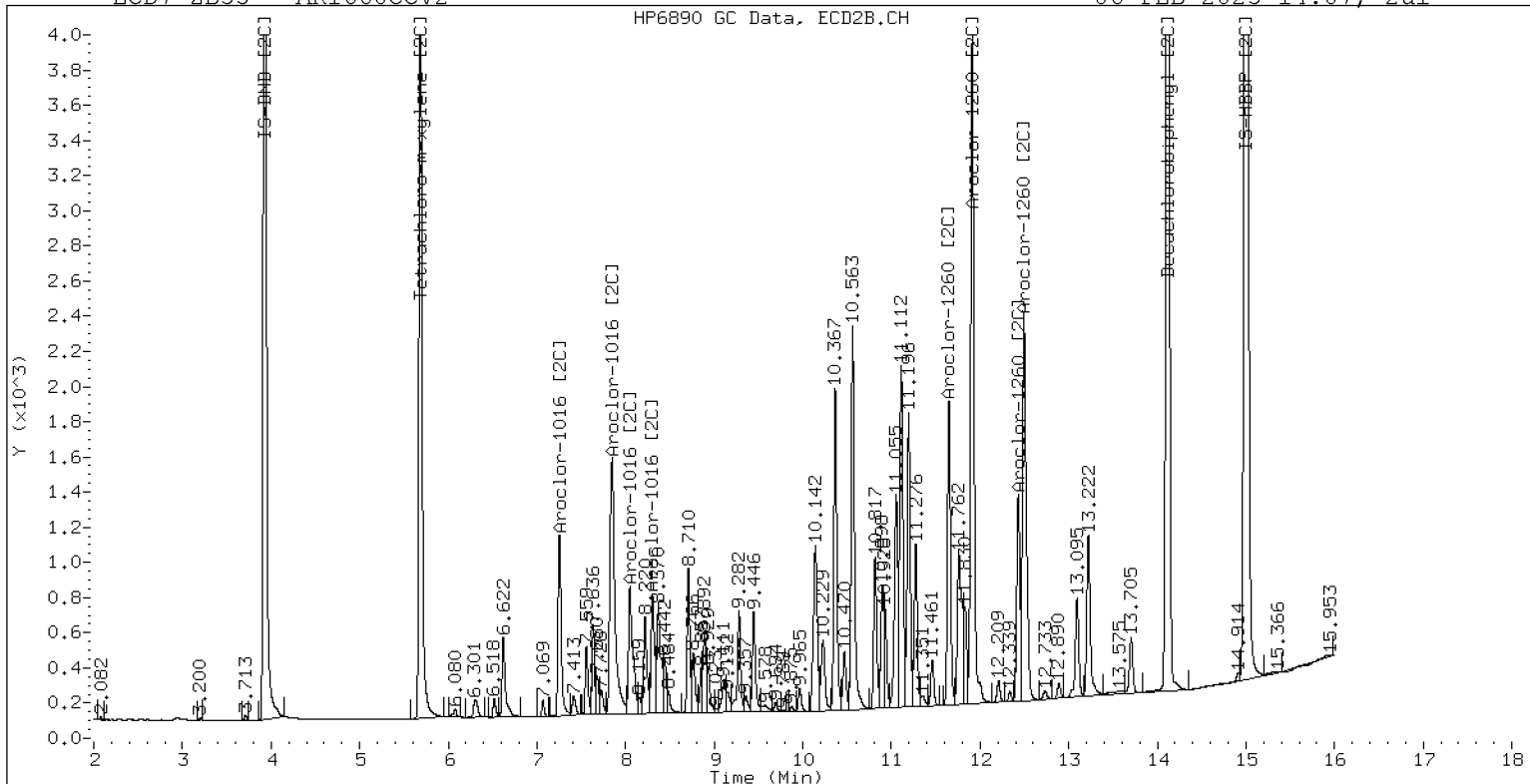
06-FEB-2023 14:07, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660CCV2

06-FEB-2023 14:07, 2ul



ZB-35 Manual Integration: NO



CONTINUING CALIBRATION CHECK
EPA 8082A

| | | | |
|----------------|----------------------------------|-------------------|------------------------|
| Laboratory: | <u>Analytical Resources, LLC</u> | SDG: | <u>23A0180</u> |
| Client: | <u>Anchor QEA, LLC</u> | Project: | <u>AOC5 MR Phase 1</u> |
| Instrument ID: | <u>ECD7</u> | Calibration: | <u>GA00061</u> |
| Lab File ID: | <u>02062322ECD7.D</u> | Calibration Date: | <u>01/24/2023</u> |
| Sequence: | <u>SLB0086</u> | Injection Date: | <u>02/06/23</u> |
| Lab Sample ID: | <u>SLB0086-CCV3</u> | Injection Time: | <u>16:55</u> |
| Sequence Name: | <u>AR1242CCV3</u> | | |

| COMPOUND | TYPE | CONC. (ug/L) | | RESPONSE FACTOR (RRF) | | | % DRIFT/DIFF | |
|----------------------------|------|--------------|------|-----------------------|-----------|-----|--------------|---------|
| | | STD | CCV | ICAL | CCV | MIN | CCV | LIMIT |
| Aroclor 1242 | A | 250.00 | 258 | 0.0411165 | 0.0424758 | | 3.2 | +/-20 |
| Aroclor-1242 (1) | A | 250.00 | 261 | | 0.0255454 | | | |
| Aroclor-1242 (2) | A | 250.00 | 259 | | 0.0830796 | | | |
| Aroclor-1242 (3) | A | 250.00 | 258 | | 0.0246370 | | | |
| Aroclor-1242 (4) | A | 250.00 | 254 | | 0.0366413 | | | |
| Aroclor 1242 [2C] | A | 250.00 | 259 | 0.0423236 | 0.0437419 | | 3.6 | +/-20 |
| Aroclor-1242 (1) [2C] | A | 250.00 | 267 | | 0.0374323 | | | |
| Aroclor-1242 (2) [2C] | A | 250.00 | 257 | | 0.0799251 | | | |
| Aroclor-1242 (3) [2C] | A | 250.00 | 266 | | 0.0258685 | | | |
| Aroclor-1242 (4) [2C] | A | 250.00 | 246 | | 0.0317416 | | | |
| Decachlorobiphenyl | A | 40.000 | 35.6 | 0.8555994 | 0.7623007 | | -11.0 | +/-20 |
| Tetrachlorometaxylene | A | 40.000 | 51.0 | 1.1307870 | 1.4425680 | | 27.5 | +/-20 * |
| Decachlorobiphenyl [2C] | A | 40.000 | 38.2 | 1.2696430 | 1.2127540 | | -4.5 | +/-20 |
| Tetrachlorometaxylene [2C] | A | 40.000 | 51.0 | 1.0814980 | 1.3777020 | | 27.5 | +/-20 * |

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230206.b/02062322ECD7.D
Data file 2: /230206.b/230206.b/02062322ECD7.D
Method: \\target\share\chem4\ecd7.i\230206.b\PCB.m
Compound Sublist: AR1242.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1242CCV3
Client ID:
Injection Date: 06-FEB-2023 16:55
Report Date: 02/07/2023 10:35
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

| RT | ZB5 Col Shift | Response | RT | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag |
|--------|---------------|----------|--------|----------------|----------|------------|-------------|-----|----------------------|
| 5.808 | -0.001 | 294488 | 5.685 | 0.001 | 247943 | 51.0 | 51.0 | 0.1 | Tetrachloro-m-xylene |
| 13.888 | -0.004 | 209970 | 14.117 | 0.000 | 259881 | 35.6 | 38.2 | 7.0 | Decachlorobiphenyl |

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | |
|--------------------|----------------|-------------|-------|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 503318 | 408283 | -18.9 |
| Hexabromobiphenyl | 647433 | 550885 | -14.9 |

| Standard Cpnd | Column 2 | | |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 336911 | 359937 | 6.8 |
| Hexabromobiphenyl | 382032 | 428580 | 12.2 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-JAN-2023
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | | ZB35 Col | | | | | |
|--------------------------|-------|-------|--------|--------|--------------------------|----------|-------|-------|-------|---------|--|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount | |
| Aroclor-1242 | 1 | 7.269 | -0.001 | 32593 | 260.7 | 1 | 7.254 | 0.000 | 42104 | 267.5 | |
| Aroclor-1242 | 2 | 7.650 | -0.005 | 106000 | 259.1 | 2 | 7.850 | 0.000 | 89900 | 257.1 | |
| Aroclor-1242 | 3 | 8.402 | -0.005 | 31434 | 258.6 | 3 | 9.153 | 0.000 | 29097 | 265.7 | |
| Aroclor-1242 | 4 | 8.575 | -0.006 | 46750 | 254.6 | 4 | 9.578 | 0.000 | 35703 | 246.0 | |
| Total Col1Ave (4 peaks): | | | | 258.2 | Total Col2Ave (4 peaks): | | | | 259.1 | RPD = 0 | |
| Corrected Ave (3 peaks): | | | | 257.4 | Corrected Ave (3 peaks): | | | | 256.3 | RPD = 0 | |
| CalAmt %D: | | | | 3.3 | CalAmt %D: | | | | 3.6 | | |

Total PCB Area Col1 (5.909 - 13.792) = 789333 Col1 Total PCB = 0.2 ppm*

Total PCB Area Col2 (5.784 - 14.017) = 647099 Col2 Total PCB = 0.2 ppm*

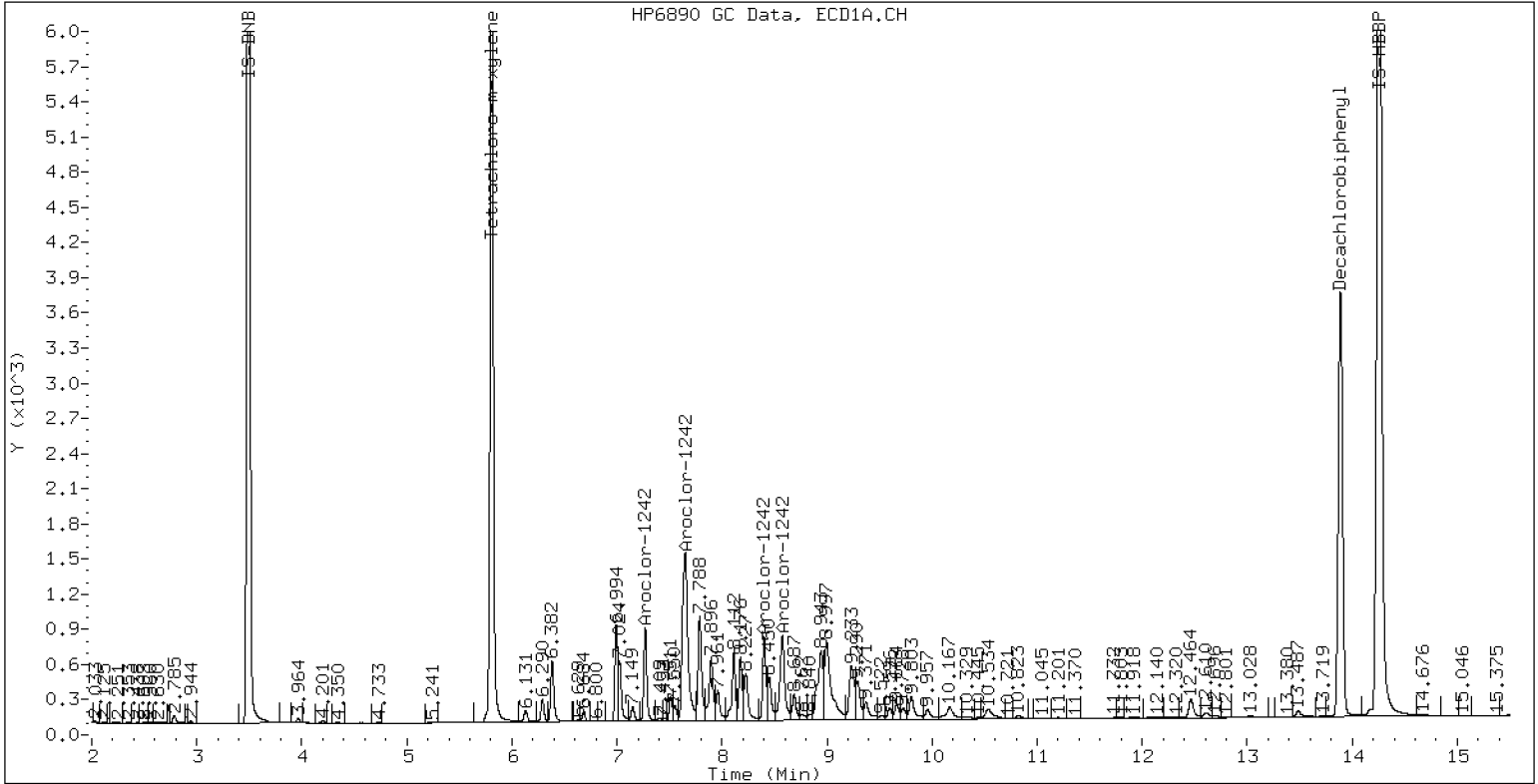
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 AR1242CCV3

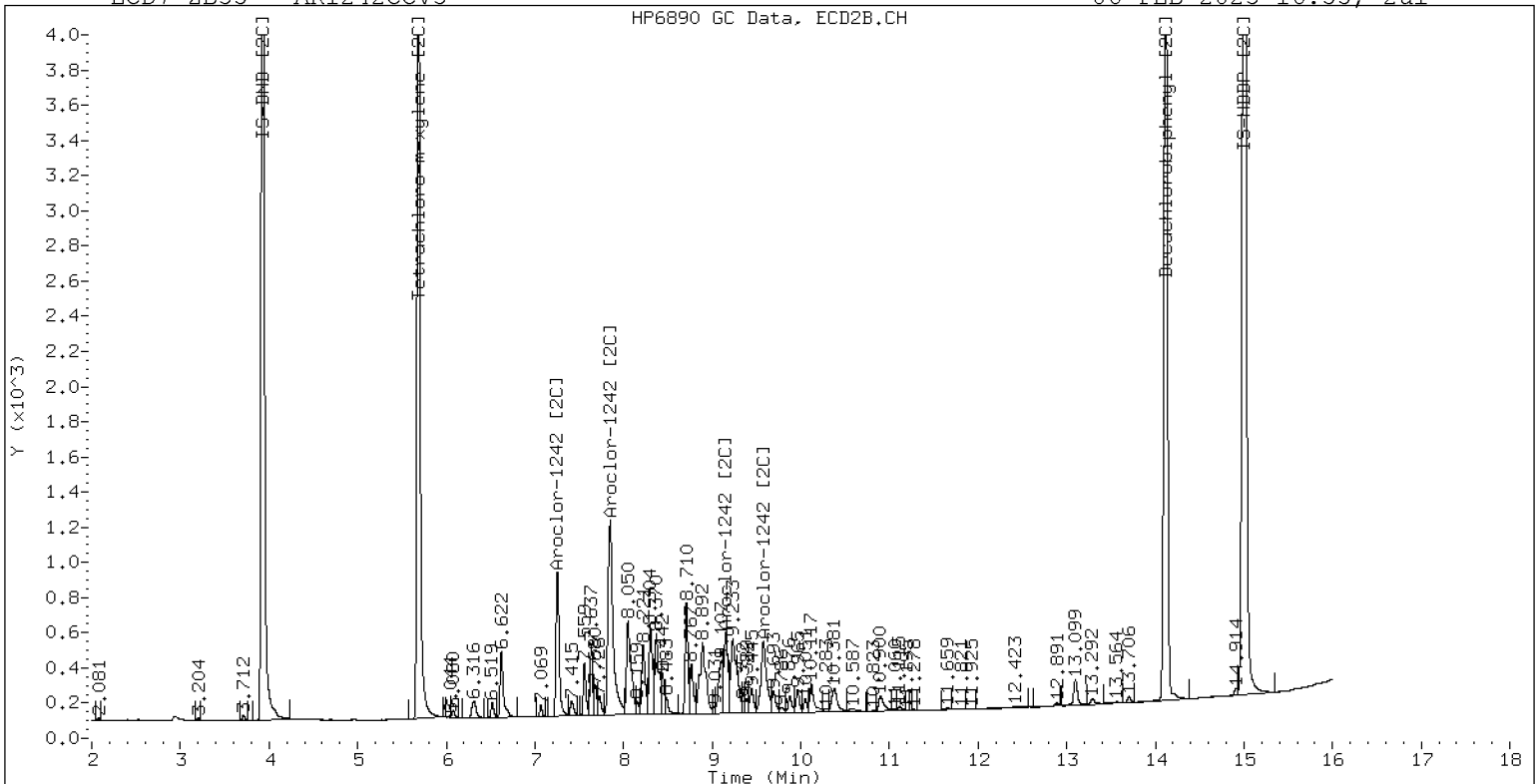
06-FEB-2023 16:55, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1242CCV3

06-FEB-2023 16:55, 2ul



ZB-35 Manual Integration: NO



CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: ECD7

Calibration: GA00061

Lab File ID: 02062323ECD7.D

Calibration Date: 01/24/2023

Sequence: SLB0086

Injection Date: 02/06/23

Lab Sample ID: SLB0086-CCV4

Injection Time: 17:16

Sequence Name: AR1660CCV4

| COMPOUND | TYPE | CONC. (ug/L) | | RESPONSE FACTOR (RRF) | | | % DRIFT/DIFF | |
|----------------------------|------|--------------|------|-----------------------|-----------|-----|--------------|-------|
| | | STD | CCV | ICAL | CCV | MIN | CCV | LIMIT |
| Aroclor 1016 | A | 250.00 | 258 | 0.0506755 | 0.0523478 | | 3.0 | +/-20 |
| Aroclor-1016 (1) | A | 250.00 | 264 | 0.0297277 | 0.0313680 | | 5.6 | |
| Aroclor-1016 (2) | A | 250.00 | 264 | 0.0985017 | 0.1040820 | | 5.6 | |
| Aroclor-1016 (3) | A | 250.00 | 238 | 0.0453193 | 0.0430857 | | -4.8 | |
| Aroclor-1016 (4) | A | 250.00 | 264 | 0.0291533 | 0.0308554 | | 5.6 | |
| Aroclor 1016 [2C] | A | 250.00 | 266 | 0.0519244 | 0.0549482 | | 6.2 | +/-20 |
| Aroclor-1016 (1) [2C] | A | 250.00 | 266 | 0.0433907 | 0.0461627 | | 6.4 | |
| Aroclor-1016 (2) [2C] | A | 250.00 | 262 | 0.0950862 | 0.0995321 | | 4.8 | |
| Aroclor-1016 (3) [2C] | A | 250.00 | 274 | 0.0388014 | 0.0425189 | | 9.6 | |
| Aroclor-1016 (4) [2C] | A | 250.00 | 260 | 0.0304194 | 0.0315791 | | 4.0 | |
| Aroclor 1260 | A | 250.00 | 220 | 0.0605224 | 0.0534901 | | -12.0 | +/-20 |
| Aroclor-1260 (1) | A | 250.00 | 226 | 0.0448870 | 0.0405811 | | -9.6 | |
| Aroclor-1260 (2) | A | 250.00 | 226 | 0.0461412 | 0.0417988 | | -9.6 | |
| Aroclor-1260 (3) | A | 250.00 | 220 | 0.1214672 | 0.1069014 | | -12.0 | |
| Aroclor-1260 (4) | A | 250.00 | 221 | 0.0627593 | 0.0555064 | | -11.6 | |
| Aroclor-1260 (5) | A | 250.00 | 207 | 0.0273573 | 0.0226628 | | -17.2 | |
| Aroclor 1260 [2C] | A | 250.00 | 234 | 0.0836545 | 0.0770286 | | -6.3 | +/-20 |
| Aroclor-1260 (1) [2C] | A | 250.00 | 232 | 0.0577136 | 0.0536354 | | -7.2 | |
| Aroclor-1260 (2) [2C] | A | 250.00 | 224 | 0.1460113 | 0.1308177 | | -10.4 | |
| Aroclor-1260 (3) [2C] | A | 250.00 | 251 | 0.0363944 | 0.0365246 | | 0.4 | |
| Aroclor-1260 (4) [2C] | A | 250.00 | 230 | 0.0944986 | 0.0871366 | | -8.0 | |
| Decachlorobiphenyl | A | 40.000 | 37.7 | 0.8555994 | 0.8058711 | | -5.8 | +/-20 |
| Tetrachlorometaxylene | A | 40.000 | 43.5 | 1.1307870 | 1.2302140 | | 8.8 | +/-20 |
| Decachlorobiphenyl [2C] | A | 40.000 | 40.7 | 1.2696430 | 1.2930770 | | 1.8 | +/-20 |
| Tetrachlorometaxylene [2C] | A | 40.000 | 43.2 | 1.0814980 | 1.1688240 | | 8.0 | +/-20 |

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230206.b/02062323ECD7.D
Data file 2: /230206.b/230206.b/02062323ECD7.D
Method: \\target\share\chem4\ecd7.i\230206.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660CCV4
Client ID:
Injection Date: 06-FEB-2023 17:16
Report Date: 02/07/2023 10:35
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

| RT | ZB5 Col Shift | Response | RT | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag |
|--------|---------------|----------|--------|----------------|----------|------------|-------------|-----|----------------------|
| 5.808 | -0.001 | 269944 | 5.685 | 0.001 | 224077 | 43.5 | 43.2 | 0.7 | Tetrachloro-m-xylene |
| 13.888 | -0.004 | 262911 | 14.117 | 0.000 | 318269 | 37.7 | 40.7 | 7.8 | Decachlorobiphenyl |

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | |
|--------------------|----------------|-------------|-------|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 503318 | 438857 | -12.8 |
| Hexabromobiphenyl | 647433 | 652489 | 0.8 |

| Standard Cpnd | Column 2 | | |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 336911 | 383423 | 13.8 |
| Hexabromobiphenyl | 382032 | 492266 | 28.9 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-JAN-2023
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | ZB35 Col | | | | | |
|--------------------------|-------|--------|--------|--------|----------|--------------------------|--------|--------|--------|---------------|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount |
| Aroclor-1016 | 1 | 7.269 | -0.001 | 43019 | 263.8 | 1 | 7.253 | -0.000 | 55312 | 266.0 |
| Aroclor-1016 | 2 | 7.648 | -0.002 | 142741 | 264.2 | 2 | 7.849 | 0.000 | 119259 | 261.7 |
| Aroclor-1016 | 3 | 7.787 | -0.001 | 59089 | 237.7 | 3 | 8.048 | -0.000 | 50946 | 274.0 |
| Aroclor-1016 | 4 | 8.402 | -0.002 | 42316 | 264.6 | 4 | 8.304 | 0.001 | 37838 | 259.5 |
| Total CollAve (4 peaks): | | | | 257.6 | | Total Col2Ave (4 peaks): | | | | 265.3 RPD = 3 |
| Corrected Ave (3 peaks): | | | | 255.2 | | Corrected Ave (3 peaks): | | | | 262.4 RPD = 3 |
| CalAmt %D: | | | | 3.0 | | CalAmt %D: | | | | 6.1 |
| Aroclor-1260 | 1 | 11.041 | -0.003 | 82746 | 226.0 | 1 | 11.649 | 0.001 | 82509 | 232.3 |
| Aroclor-1260 | 2 | 11.356 | -0.004 | 85229 | 226.5 | 2 | 11.913 | 0.001 | 201241 | 224.0 |
| Aroclor-1260 | 3 | 11.729 | -0.006 | 217975 | 220.0 | 3 | 12.431 | 0.000 | 56187 | 250.9 |
| Aroclor-1260 | 4 | 12.132 | -0.008 | 113179 | 221.1 | 4 | 12.496 | -0.000 | 134045 | 230.5 |
| Aroclor-1260 | 5 | 12.239 | -0.005 | 46210 | 207.1 | NS | --- | | | ---- |
| Total CollAve (5 peaks): | | | | 220.1 | | Total Col2Ave (4 peaks): | | | | 234.4 RPD = 6 |
| Corrected Ave (4 peaks): | | | | 218.6 | | Corrected Ave (3 peaks): | | | | 228.9 RPD = 5 |
| CalAmt %D: | | | | -11.9 | | CalAmt %D: | | | | -6.2 |

Total PCB Area Col1 (5.909 - 13.792) = 2431740 Col1 Total PCB = 0.5 ppm*

Total PCB Area Col2 (5.784 - 14.017) = 2020792 Col2 Total PCB = 0.5 ppm*

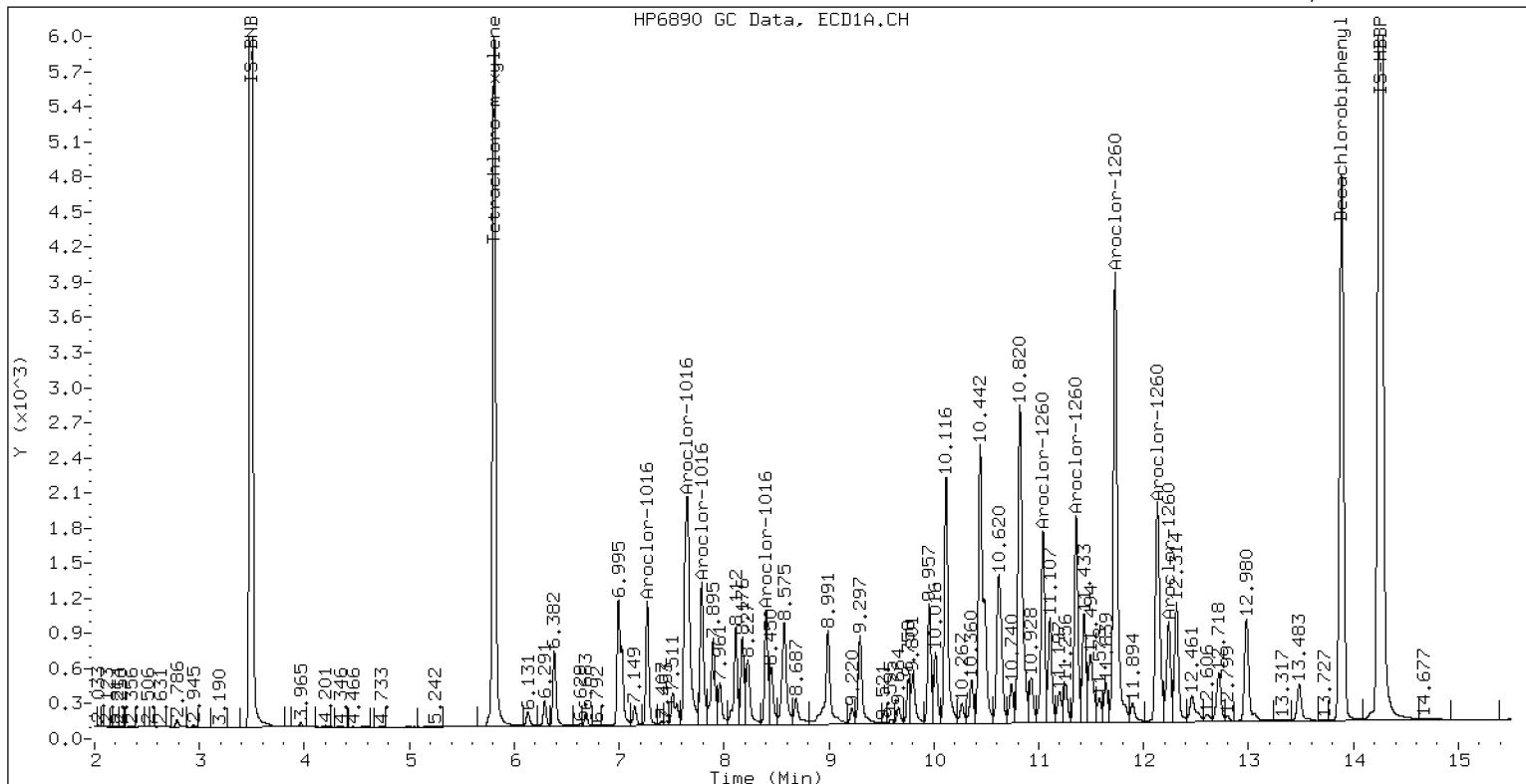
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCV4

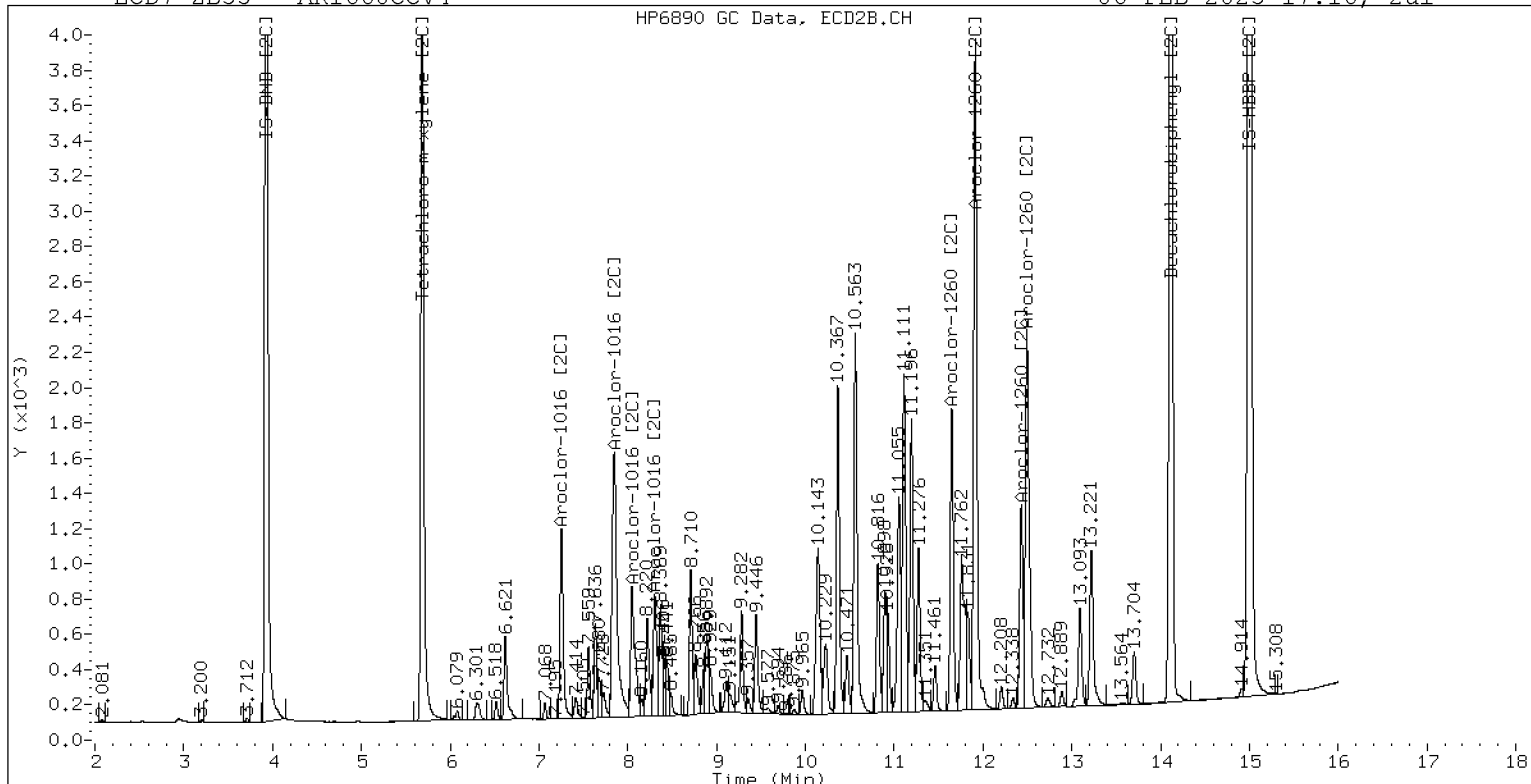
06-FEB-2023 17:16, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660CCV4

06-FEB-2023 17:16, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230206.b/02062338ECD7.D
Data file 2: /230206.b/230206.b/02062338ECD7.D
Method: \\target\share\chem4\ecd7.i\230206.b\PCB.m
Compound Sublist: AR1254.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1254CCV5
Client ID:
Injection Date: 06-FEB-2023 22:31
Report Date: 02/07/2023 10:36
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

| RT | ZB5 Col Shift | Response | RT | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag |
|--------|---------------|----------|--------|----------------|----------|------------|-------------|-----|----------------------|
| 5.808 | -0.001 | 258840 | 5.685 | 0.001 | 218710 | 40.6 | 40.8 | 0.6 | Tetrachloro-m-xylene |
| 13.889 | -0.003 | 179214 | 14.116 | -0.000 | 227542 | 35.0 | 37.0 | 5.7 | Decachlorobiphenyl |

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | |
|--------------------|----------------|-------------|-------|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 503318 | 451499 | -10.3 |
| Hexabromobiphenyl | 647433 | 479270 | -26.0 |

| Standard Cpnd | Column 2 | | |
|--------------------|----------------|-------------|------|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 336911 | 396623 | 17.7 |
| Hexabromobiphenyl | 382032 | 387491 | 1.4 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-JAN-2023
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | ZB35 Col | | | | | | |
|--------------------------|-------|--------|--------|--------|----------|--------------------------|--------|-------|--------|--------|---------|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount | |
| Aroclor-1254 | 1 | 9.295 | -0.004 | 88204 | 191.7 | 1 | 9.444 | 0.000 | 62700 | 217.9 | |
| Aroclor-1254 | 2 | 9.371 | -0.007 | 37535 | 191.0 | 2 | 9.964 | 0.000 | 51490 | 221.4 | |
| Aroclor-1254 | 3 | 9.662 | -0.008 | 57056 | 193.5 | 3 | 10.115 | 0.000 | 101839 | 200.7 | |
| Aroclor-1254 | 4 | 9.799 | -0.010 | 116809 | 202.2 | 4 | 10.364 | 0.000 | 111234 | 219.2 | |
| Aroclor-1254 | 5 | 10.158 | -0.020 | 72261 | 192.3 | 5 | 10.562 | 0.000 | 52658 | 186.4 | |
| Total CollAve (5 peaks): | | | | 194.2 | | Total Col2Ave (5 peaks): | | | | 209.1 | RPD = 7 |
| Corrected Ave (4 peaks): | | | | 192.2 | | Corrected Ave (4 peaks): | | | | 206.1 | RPD = 7 |
| CalAmt %D: | | | | -22.3 | | CalAmt %D: | | | | -16.4 | |

Total PCB Area Col1 (5.909 - 13.792) = 1181525 Col1 Total PCB = 0.2 ppm*

Total PCB Area Col2 (5.784 - 14.017) = 1042237 Col2 Total PCB = 0.2 ppm*

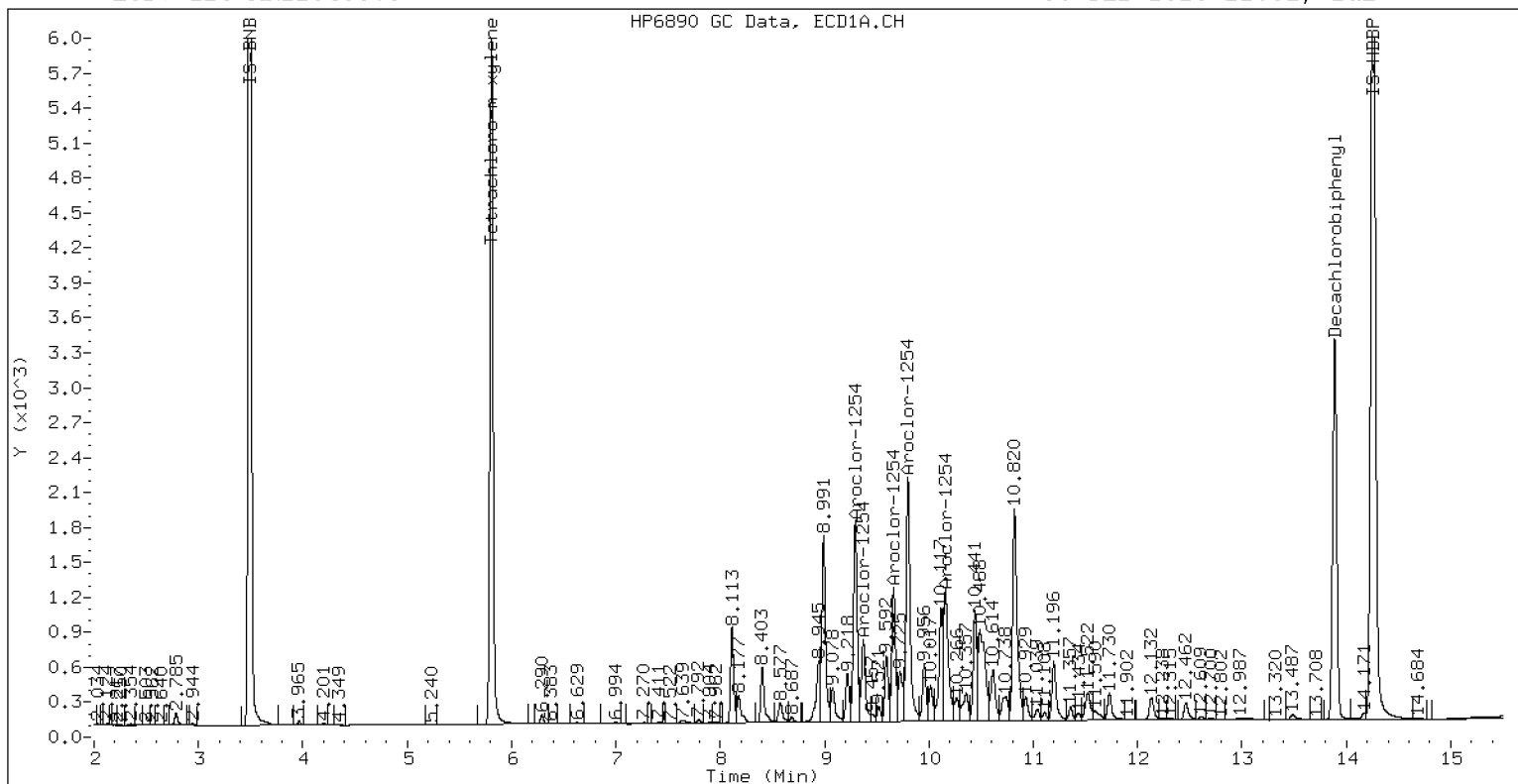
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 AR1254CCV5

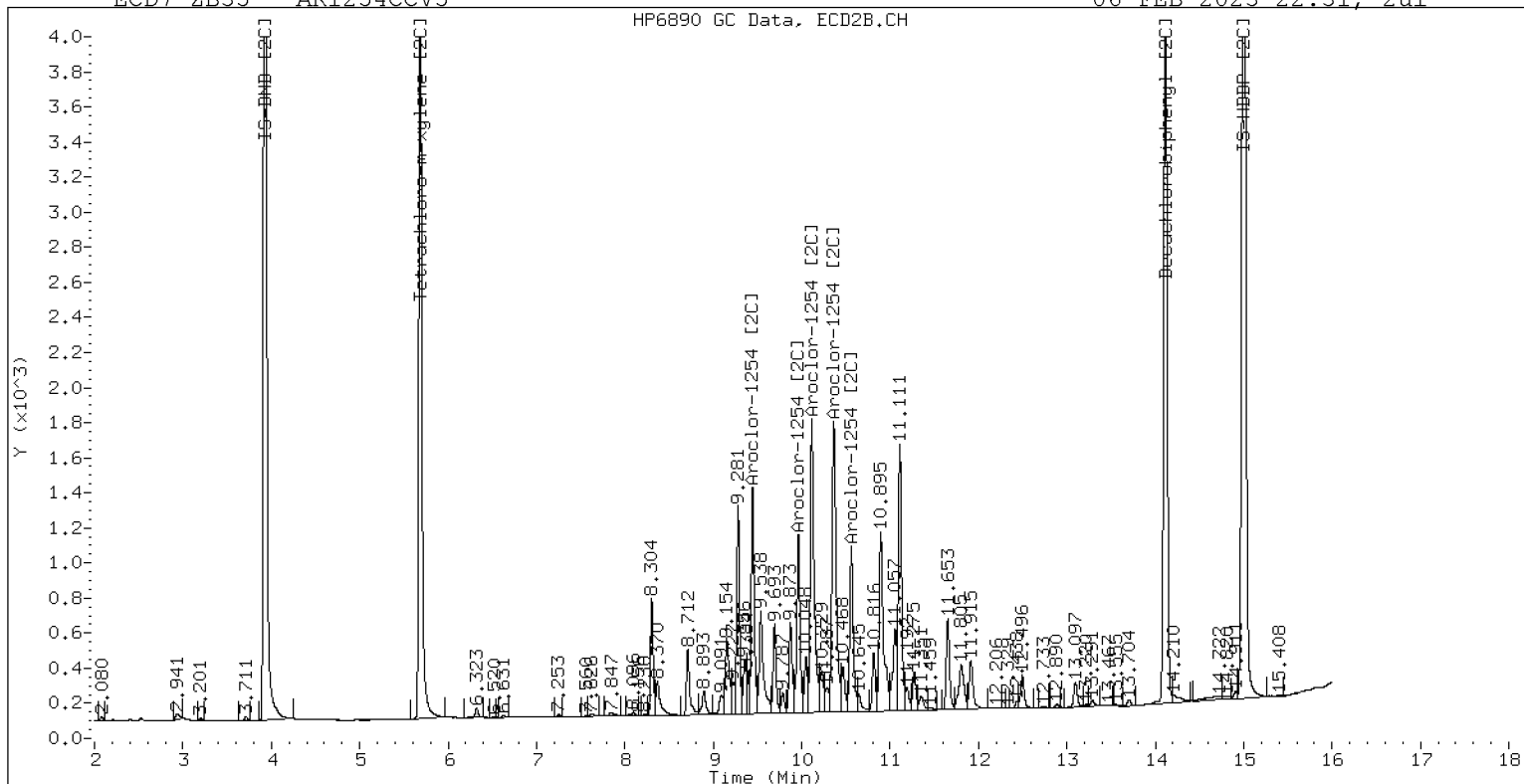
06-FEB-2023 22:31, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1254CCV5

06-FEB-2023 22:31, 2ul



Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230206.b/02062339ECD7.D
Data file 2: /230206.b/230206.b/02062339ECD7.D
Method: \\target\share\chem4\ecd7.i\230206.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660CCV6
Client ID:
Injection Date: 06-FEB-2023 22:52
Report Date: 02/07/2023 10:36
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

| ZB5 Col | | ZB35 Col | | | ZB5 | ZB35 | RPD | Compound/Flag | |
|---------|--------|----------|--------|--------|----------|--------|------|---------------|----------------------|
| RT | Shift | Response | RT | Shift | Response | on col | | | on col |
| 5.807 | -0.002 | 286629 | 5.684 | 0.000 | 237824 | 43.5 | 43.0 | 1.2 | Tetrachloro-m-xylene |
| 13.889 | -0.002 | 240036 | 14.116 | -0.000 | 289682 | 37.9 | 39.9 | 5.1 | Decachlorobiphenyl |

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1 | | | |
|--------------------|----------------|-------------|------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 503318 | 466479 | -7.3 |
| Hexabromobiphenyl | 647433 | 592247 | -8.5 |

| Column 2 | | | |
|--------------------|----------------|-------------|------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 336911 | 409378 | 21.5 |
| Hexabromobiphenyl | 382032 | 457628 | 19.8 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-JAN-2023
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | ZB35 Col | | | | | |
|--------------------------|-------|--------|--------|--------|----------|--------------------------|--------|--------|--------|---------------|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount |
| Aroclor-1016 | 1 | 7.268 | -0.001 | 45454 | 262.2 | 1 | 7.253 | -0.000 | 58772 | 264.7 |
| Aroclor-1016 | 2 | 7.649 | -0.002 | 151423 | 263.6 | 2 | 7.849 | 0.000 | 126257 | 259.5 |
| Aroclor-1016 | 3 | 7.787 | -0.002 | 62815 | 237.7 | 3 | 8.049 | 0.001 | 54000 | 272.0 |
| Aroclor-1016 | 4 | 8.401 | -0.002 | 44474 | 261.6 | 4 | 8.303 | 0.000 | 40035 | 257.2 |
| Total CollAve (4 peaks): | | | | 256.3 | | Total Col2Ave (4 peaks): | | | | 263.3 RPD = 3 |
| Corrected Ave (3 peaks): | | | | 253.8 | | Corrected Ave (3 peaks): | | | | 260.5 RPD = 3 |
| CalAmt %D: | | | | 2.5 | | CalAmt %D: | | | | 5.3 |
| Aroclor-1260 | 1 | 11.039 | -0.004 | 81999 | 246.8 | 1 | 11.648 | 0.000 | 81660 | 247.3 |
| Aroclor-1260 | 2 | 11.356 | -0.004 | 83388 | 244.1 | 2 | 11.912 | -0.000 | 192645 | 230.6 |
| Aroclor-1260 | 3 | 11.729 | -0.006 | 208001 | 231.3 | 3 | 12.431 | 0.000 | 54466 | 261.6 |
| Aroclor-1260 | 4 | 12.132 | -0.007 | 105519 | 227.1 | 4 | 12.496 | -0.001 | 129246 | 239.1 |
| Aroclor-1260 | 5 | 12.240 | -0.004 | 42706 | 210.9 | NS | --- | | | ---- |
| Total CollAve (5 peaks): | | | | 232.0 | | Total Col2Ave (4 peaks): | | | | 244.7 RPD = 5 |
| Corrected Ave (4 peaks): | | | | 228.4 | | Corrected Ave (3 peaks): | | | | 239.0 RPD = 5 |
| CalAmt %D: | | | | -7.2 | | CalAmt %D: | | | | -2.1 |

Total PCB Area Col1 (5.909 - 13.792) = 2433568 Col1 Total PCB = 0.4 ppm*

Total PCB Area Col2 (5.784 - 14.017) = 2065863 Col2 Total PCB = 0.5 ppm*

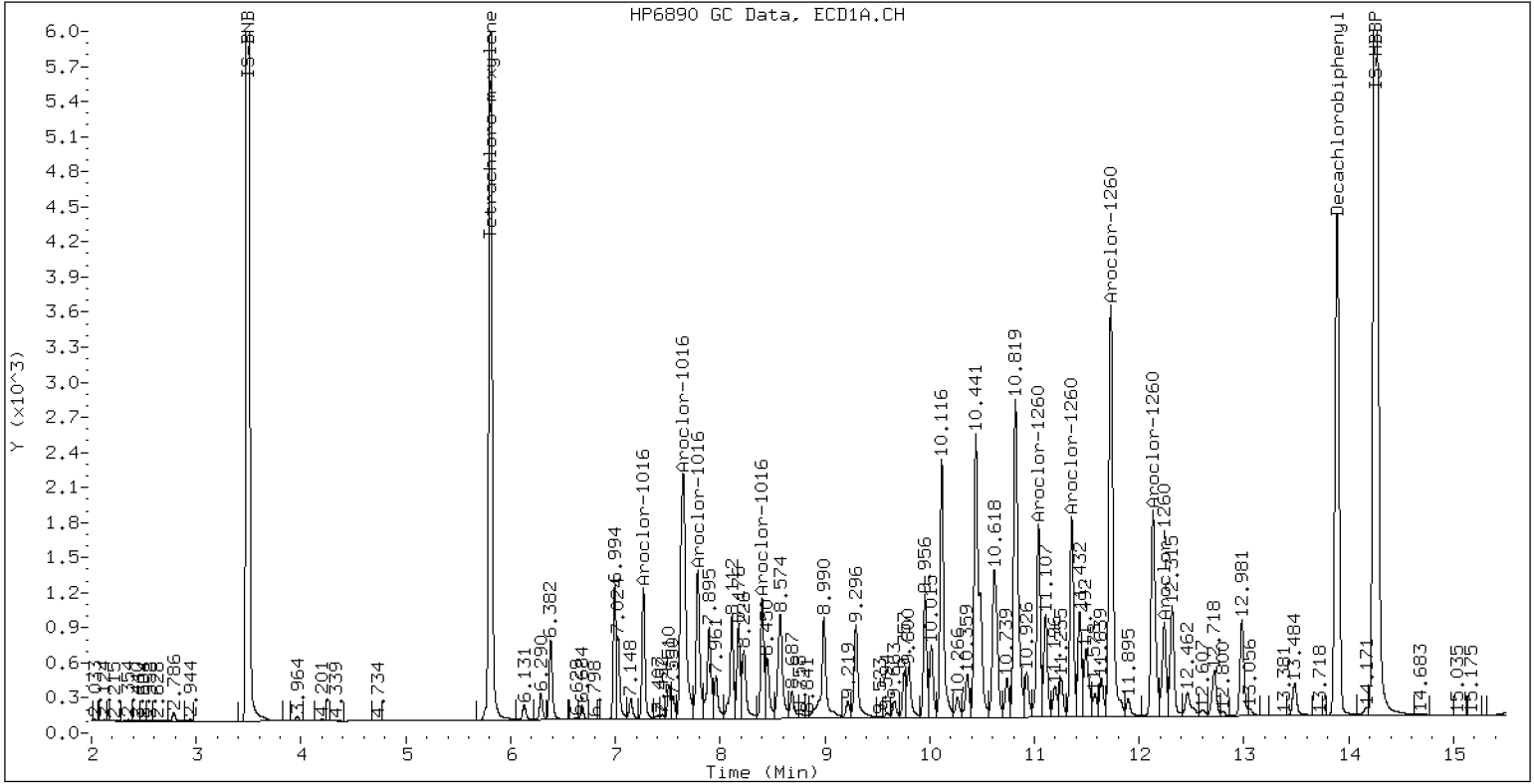
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCV6

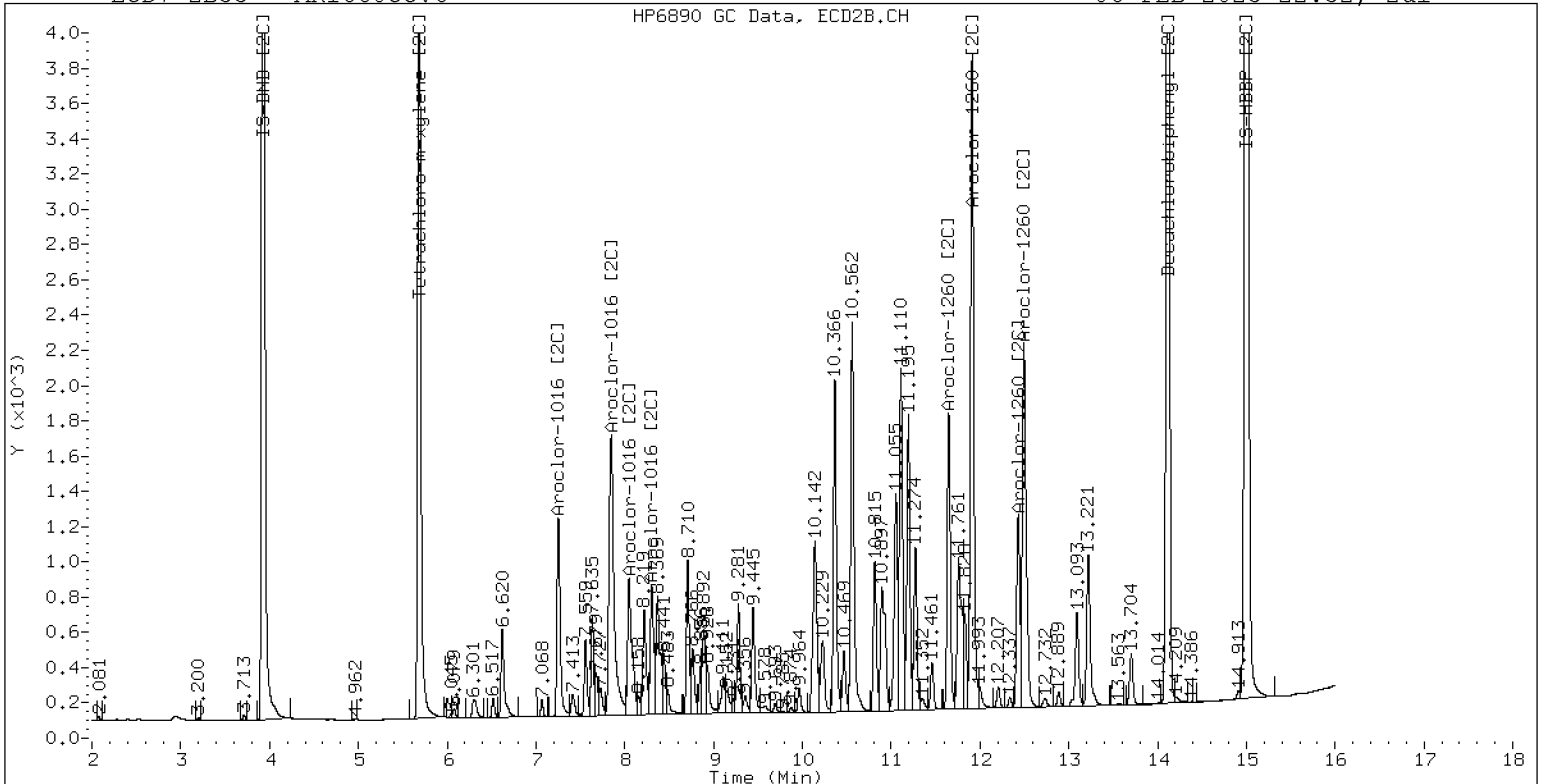
06-FEB-2023 22:52, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660CCV6

06-FEB-2023 22:52, 2ul



ZB-35 Manual Integration: NO



CONTINUING CALIBRATION CHECK EPA 8082A

| | |
|--|-------------------------------------|
| Laboratory: <u>Analytical Resources, LLC</u> | SDG: <u>23A0180</u> |
| Client: <u>Anchor QEA, LLC</u> | Project: <u>AOC5 MR Phase 1</u> |
| Instrument ID: <u>ECD7</u> | Calibration: <u>GA00061</u> |
| Lab File ID: <u>02062349ECD7.D</u> | Calibration Date: <u>01/24/2023</u> |
| Sequence: <u>SLB0086</u> | Injection Date: <u>02/07/23</u> |
| Lab Sample ID: <u>SLB0086-CCV7</u> | Injection Time: <u>02:22</u> |
| Sequence Name: <u>AR1248CCV7</u> | |

| COMPOUND | TYPE | CONC. (ug/L) | | RESPONSE FACTOR (RRF) | | | % DRIFT/DIFF | |
|----------------------------|------|--------------|------|-----------------------|-----------|-----|--------------|-------|
| | | STD | CCV | ICAL | CCV | MIN | CCV | LIMIT |
| Aroclor 1248 | A | 250.00 | 218 | 0.0592639 | 0.0496052 | | -12.9 | +/-20 |
| Aroclor-1248 (1) | A | 250.00 | 261 | | 0.0417240 | | | |
| Aroclor-1248 (2) | A | 250.00 | 258 | | 0.0526436 | | | |
| Aroclor-1248 (3) | A | 250.00 | 182 | | 0.0711093 | | | |
| Aroclor-1248 (4) | A | 250.00 | 170 | | 0.0329439 | | | |
| Aroclor 1248 [2C] | A | 250.00 | 253 | 0.0453673 | 0.0458880 | | 1.3 | +/-20 |
| Aroclor-1248 (1) [2C] | A | 250.00 | 265 | | 0.0383709 | | | |
| Aroclor-1248 (2) [2C] | A | 250.00 | 238 | | 0.0370995 | | | |
| Aroclor-1248 (3) [2C] | A | 250.00 | 263 | | 0.0499817 | | | |
| Aroclor-1248 (4) [2C] | A | 250.00 | 247 | | 0.0581000 | | | |
| Decachlorobiphenyl | A | 40.000 | 36.9 | 0.8555994 | 0.7899024 | | -7.8 | +/-20 |
| Tetrachlorometaxylene | A | 40.000 | 41.5 | 1.1307870 | 1.1731400 | | 3.8 | +/-20 |
| Decachlorobiphenyl [2C] | A | 40.000 | 39.4 | 1.2696430 | 1.2492240 | | -1.5 | +/-20 |
| Tetrachlorometaxylene [2C] | A | 40.000 | 41.7 | 1.0814980 | 1.1280550 | | 4.3 | +/-20 |

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230206.b/02062349ECD7.D
Data file 2: /230206.b/230206.b/02062349ECD7.D
Method: \\target\share\chem4\ecd7.i\230206.b\PCB.m
Compound Sublist: AR1248.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

1248

ARI ID: AR1254CCV7
Client ID:
Injection Date: 07-FEB-2023 02:22
Report Date: 02/07/2023 10:36
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

| RT | ZB5 Col Shift | ZB5 Col Response | RT | ZB35 Col Shift | ZB35 Col Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag |
|--------|---------------|------------------|--------|----------------|-------------------|------------|-------------|-----|----------------------|
| 5.808 | -0.001 | 279862 | 5.685 | 0.001 | 235086 | 41.5 | 41.7 | 0.5 | Tetrachloro-m-xylene |
| 13.889 | -0.003 | 303535 | 14.117 | 0.001 | 338045 | 36.9 | 39.4 | 6.4 | Decachlorobiphenyl |

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1 | | | |
|--------------------|----------------|-------------|------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 503318 | 477116 | -5.2 |
| Hexabromobiphenyl | 647433 | 768538 | 18.7 |
| Column 2 | | | |
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 336911 | 416799 | 23.7 |
| Hexabromobiphenyl | 382032 | 541208 | 41.7 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-JAN-2023
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | | ZB35 Col | | | | | |
|--------------------------|-------|-------|--------|--------|--------------------------|----------|-------|-------|-------|----------|--|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount | |
| Aroclor-1248 | 1 | 8.402 | -0.004 | 62210 | 260.6 | 1 | 8.303 | 0.000 | 49978 | 265.3 | |
| Aroclor-1248 | 2 | 8.574 | -0.006 | 78491 | 257.8 | 2 | 8.710 | 0.000 | 48322 | 238.3 | |
| Aroclor-1248 | 3 | 8.994 | -0.005 | 106023 | 182.0 | 3 | 9.152 | 0.000 | 65101 | 262.7 | |
| Aroclor-1248 | 4 | 9.292 | -0.002 | 49119 | 170.4 | 4 | 9.576 | 0.000 | 75675 | 246.9 | |
| Total CollAve (4 peaks): | | | | 217.7 | Total Col2Ave (4 peaks): | | | | 253.3 | RPD = 15 | |
| Corrected Ave (3 peaks): | | | | 203.4 | Corrected Ave (3 peaks): | | | | 249.3 | RPD = 20 | |
| CalAmt %D: | | | | -12.9 | CalAmt %D: | | | | 1.3 | | |

Total PCB Area Col1 (5.909 - 13.792) = 1189644 Col1 Total PCB = 0.2 ppm*

Total PCB Area Col2 (5.784 - 14.017) = 962878 Col2 Total PCB = 0.2 ppm*

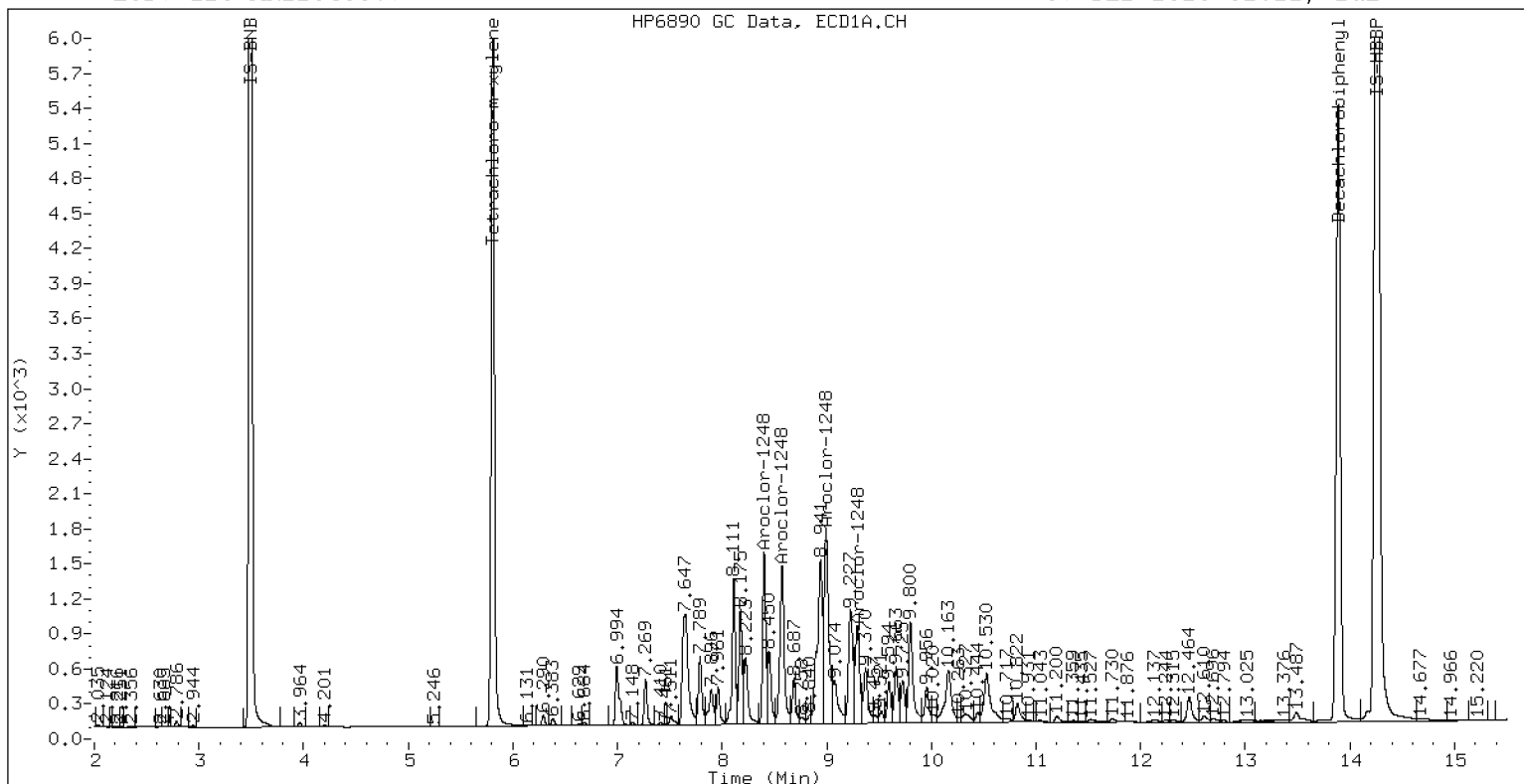
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 AR1254CCV7

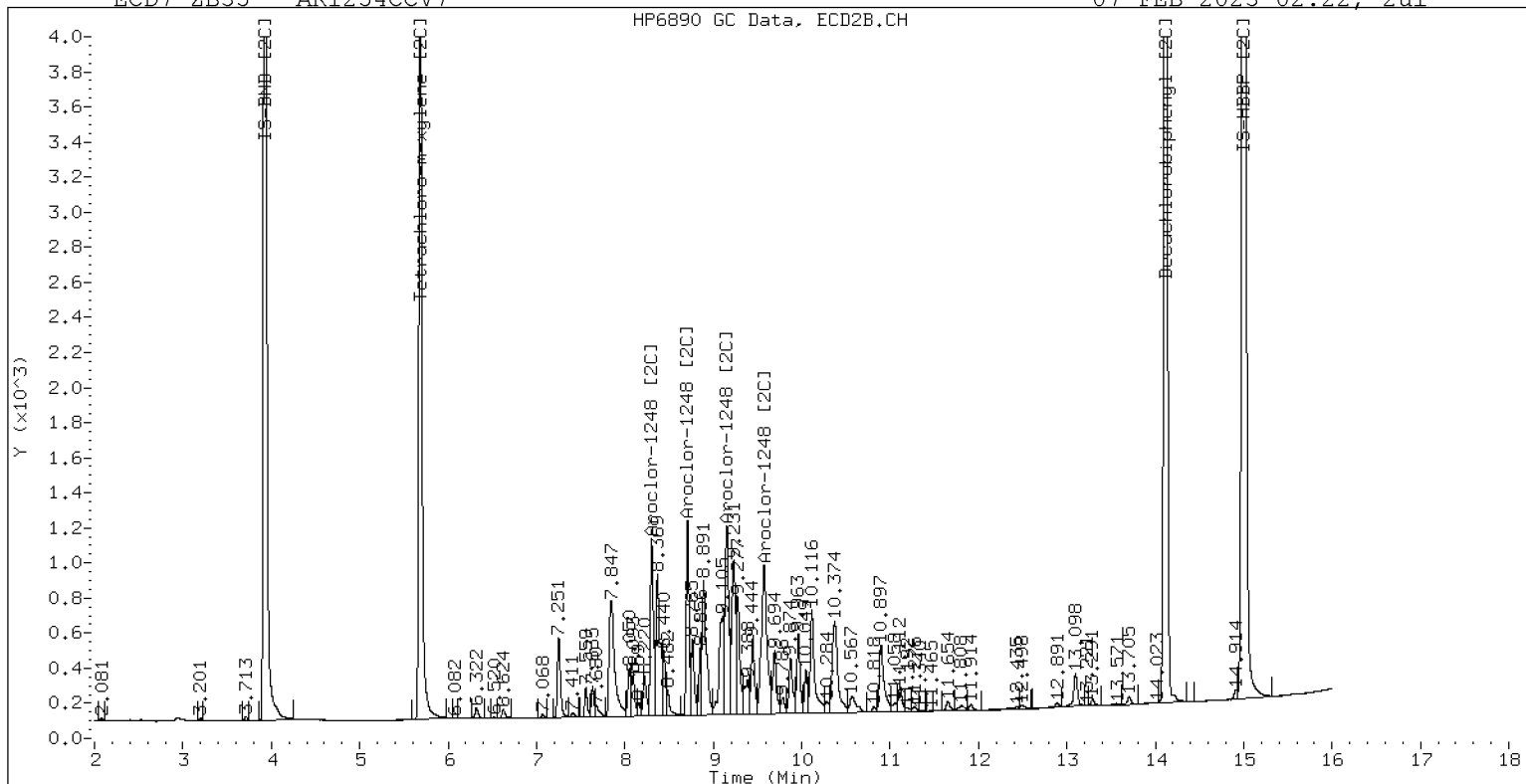
07-FEB-2023 02:22, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1254CCV7

07-FEB-2023 02:22, 2ul



ZB-35 Manual Integration: NO



CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: ECD7

Calibration: GA00061

Lab File ID: 02062350ECD7.D

Calibration Date: 01/24/2023

Sequence: SLB0086

Injection Date: 02/07/23

Lab Sample ID: SLB0086-CCV8

Injection Time: 02:43

Sequence Name: AR1660CCV8

| COMPOUND | TYPE | CONC. (ug/L) | | RESPONSE FACTOR (RRF) | | | % DRIFT/DIFF | |
|----------------------------|------|--------------|------|-----------------------|-----------|-----|--------------|-------|
| | | STD | CCV | ICAL | CCV | MIN | CCV | LIMIT |
| Aroclor 1016 | A | 250.00 | 254 | 0.0506755 | 0.0518016 | | 1.7 | +/-20 |
| Aroclor-1016 (1) | A | 250.00 | 257 | 0.0297277 | 0.0306030 | | 2.8 | |
| Aroclor-1016 (2) | A | 250.00 | 261 | 0.0985017 | 0.1030316 | | 4.4 | |
| Aroclor-1016 (3) | A | 250.00 | 236 | 0.0453193 | 0.0428788 | | -5.6 | |
| Aroclor-1016 (4) | A | 250.00 | 263 | 0.0291533 | 0.0306929 | | 5.2 | |
| Aroclor 1016 [2C] | A | 250.00 | 260 | 0.0519244 | 0.0538390 | | 4.0 | +/-20 |
| Aroclor-1016 (1) [2C] | A | 250.00 | 258 | 0.0433907 | 0.0448460 | | 3.2 | |
| Aroclor-1016 (2) [2C] | A | 250.00 | 256 | 0.0950862 | 0.0975056 | | 2.4 | |
| Aroclor-1016 (3) [2C] | A | 250.00 | 269 | 0.0388014 | 0.0417676 | | 7.6 | |
| Aroclor-1016 (4) [2C] | A | 250.00 | 257 | 0.0304194 | 0.0312370 | | 2.8 | |
| Aroclor 1260 | A | 250.00 | 209 | 0.0605224 | 0.0508444 | | -16.4 | +/-20 |
| Aroclor-1260 (1) | A | 250.00 | 216 | 0.0448870 | 0.0387182 | | -13.6 | |
| Aroclor-1260 (2) | A | 250.00 | 216 | 0.0461412 | 0.0399080 | | -13.6 | |
| Aroclor-1260 (3) | A | 250.00 | 209 | 0.1214672 | 0.1017544 | | -16.4 | |
| Aroclor-1260 (4) | A | 250.00 | 209 | 0.0627593 | 0.0524760 | | -16.4 | |
| Aroclor-1260 (5) | A | 250.00 | 195 | 0.0273573 | 0.0213655 | | -22.0 | |
| Aroclor 1260 [2C] | A | 250.00 | 229 | 0.0836545 | 0.0747860 | | -8.6 | +/-20 |
| Aroclor-1260 (1) [2C] | A | 250.00 | 227 | 0.0577136 | 0.0525165 | | -9.2 | |
| Aroclor-1260 (2) [2C] | A | 250.00 | 215 | 0.1460113 | 0.1253557 | | -14.0 | |
| Aroclor-1260 (3) [2C] | A | 250.00 | 246 | 0.0363944 | 0.0358122 | | -1.6 | |
| Aroclor-1260 (4) [2C] | A | 250.00 | 226 | 0.0944986 | 0.0854597 | | -9.6 | |
| Decachlorobiphenyl | A | 40.000 | 38.5 | 0.8555994 | 0.8241060 | | -3.8 | +/-20 |
| Tetrachlorometaxylene | A | 40.000 | 42.6 | 1.1307870 | 1.2058950 | | 6.5 | +/-20 |
| Decachlorobiphenyl [2C] | A | 40.000 | 40.5 | 1.2696430 | 1.2855030 | | 1.3 | +/-20 |
| Tetrachlorometaxylene [2C] | A | 40.000 | 42.7 | 1.0814980 | 1.1542100 | | 6.8 | +/-20 |

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230206.b/02062350ECD7.D
Data file 2: /230206.b/230206.b/02062350ECD7.D
Method: \\target\share\chem4\ecd7.i\230206.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660CCV8
Client ID:
Injection Date: 07-FEB-2023 02:43
Report Date: 02/07/2023 10:36
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

| RT | ZB5 Col Shift | Response | RT | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag |
|--------|---------------|----------|--------|----------------|----------|------------|-------------|-----|----------------------|
| 5.808 | -0.001 | 298427 | 5.684 | 0.000 | 247814 | 42.7 | 42.7 | 0.1 | Tetrachloro-m-xylene |
| 13.888 | -0.003 | 325479 | 14.117 | 0.000 | 367555 | 38.5 | 40.5 | 5.0 | Decachlorobiphenyl |

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1 | | | |
|--------------------|----------------|-------------|------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 503318 | 494947 | -1.7 |
| Hexabromobiphenyl | 647433 | 789896 | 22.0 |
| Column 2 | | | |
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 336911 | 429409 | 27.5 |
| Hexabromobiphenyl | 382032 | 571846 | 49.7 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-JAN-2023
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | ZB35 Col | | | | | |
|--------------------------|-------|--------|--------|--------|----------|--------------------------|--------|-------|--------|---------------|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount |
| Aroclor-1016 | 1 | 7.268 | -0.002 | 47334 | 257.4 | 1 | 7.253 | 0.000 | 60179 | 258.4 |
| Aroclor-1016 | 2 | 7.649 | -0.001 | 159360 | 261.5 | 2 | 7.848 | 0.000 | 130843 | 256.4 |
| Aroclor-1016 | 3 | 7.786 | -0.002 | 66321 | 236.5 | 3 | 8.048 | 0.000 | 56048 | 269.1 |
| Aroclor-1016 | 4 | 8.401 | -0.002 | 47473 | 263.2 | 4 | 8.303 | 0.000 | 41917 | 256.7 |
| Total CollAve (4 peaks): | | | | 254.6 | | Total Col2Ave (4 peaks): | | | | 260.1 RPD = 2 |
| Corrected Ave (3 peaks): | | | | 251.8 | | Corrected Ave (3 peaks): | | | | 257.2 RPD = 2 |
| CalAmt %D: | | | | 1.9 | | CalAmt %D: | | | | 4.1 |
| Aroclor-1260 | 1 | 11.039 | -0.004 | 95573 | 215.6 | 1 | 11.648 | 0.000 | 93848 | 227.5 |
| Aroclor-1260 | 2 | 11.356 | -0.005 | 98510 | 216.2 | 2 | 11.912 | 0.000 | 224013 | 214.6 |
| Aroclor-1260 | 3 | 11.727 | -0.007 | 251173 | 209.4 | 3 | 12.431 | 0.000 | 63997 | 246.0 |
| Aroclor-1260 | 4 | 12.131 | -0.008 | 129533 | 209.0 | 4 | 12.496 | 0.000 | 152718 | 226.1 |
| Aroclor-1260 | 5 | 12.239 | -0.005 | 52739 | 195.2 | NS | --- | | | ---- |
| Total CollAve (5 peaks): | | | | 209.1 | | Total Col2Ave (4 peaks): | | | | 228.6 RPD = 9 |
| Corrected Ave (4 peaks): | | | | 207.3 | | Corrected Ave (3 peaks): | | | | 222.7 RPD = 7 |
| CalAmt %D: | | | | -16.4 | | CalAmt %D: | | | | -8.6 |

Total PCB Area Coll (5.909 - 13.792) = 2761844 Coll Total PCB = 0.5 ppm*

Total PCB Area Col2 (5.784 - 14.017) = 2292110 Col2 Total PCB = 0.5 ppm*

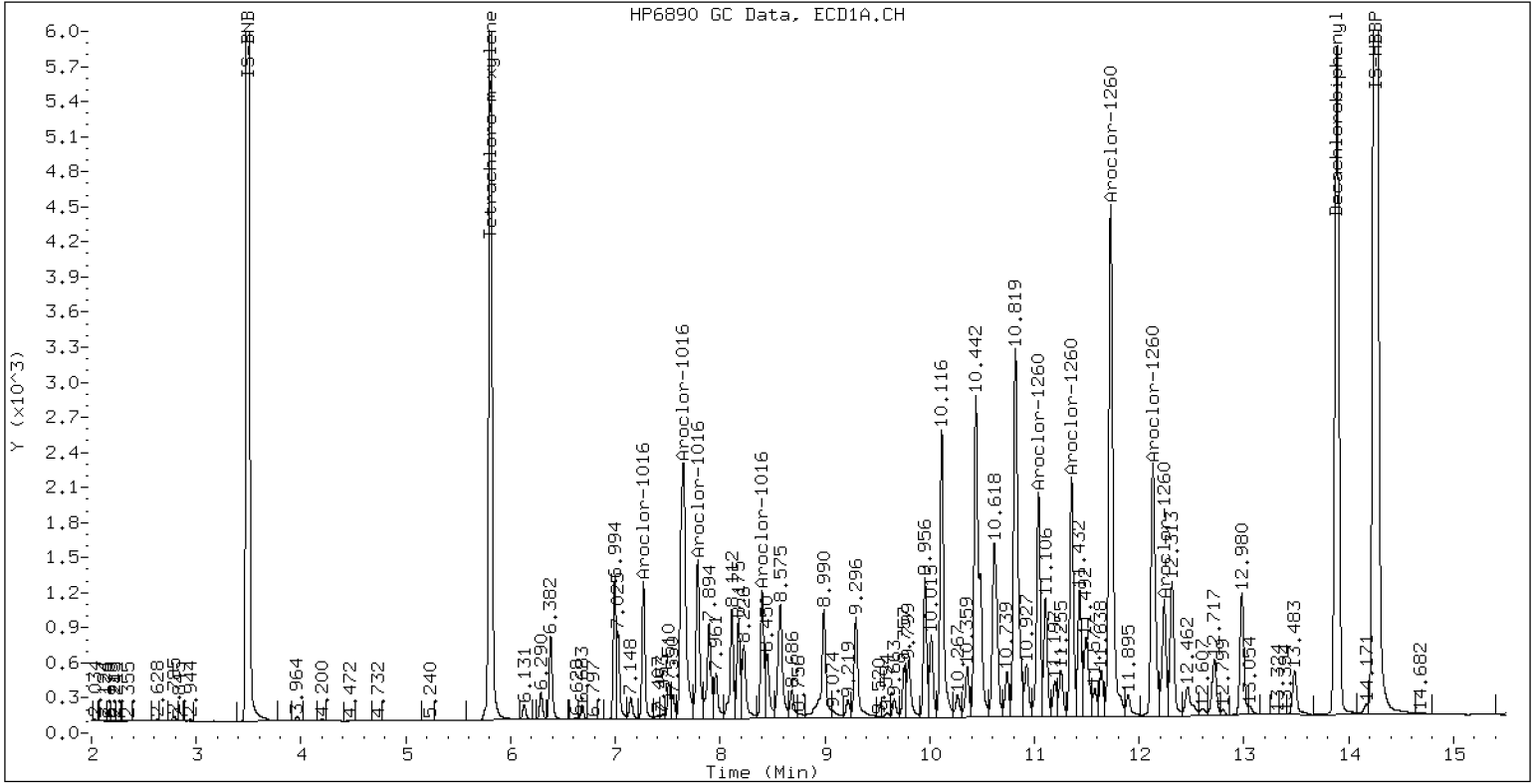
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCV8

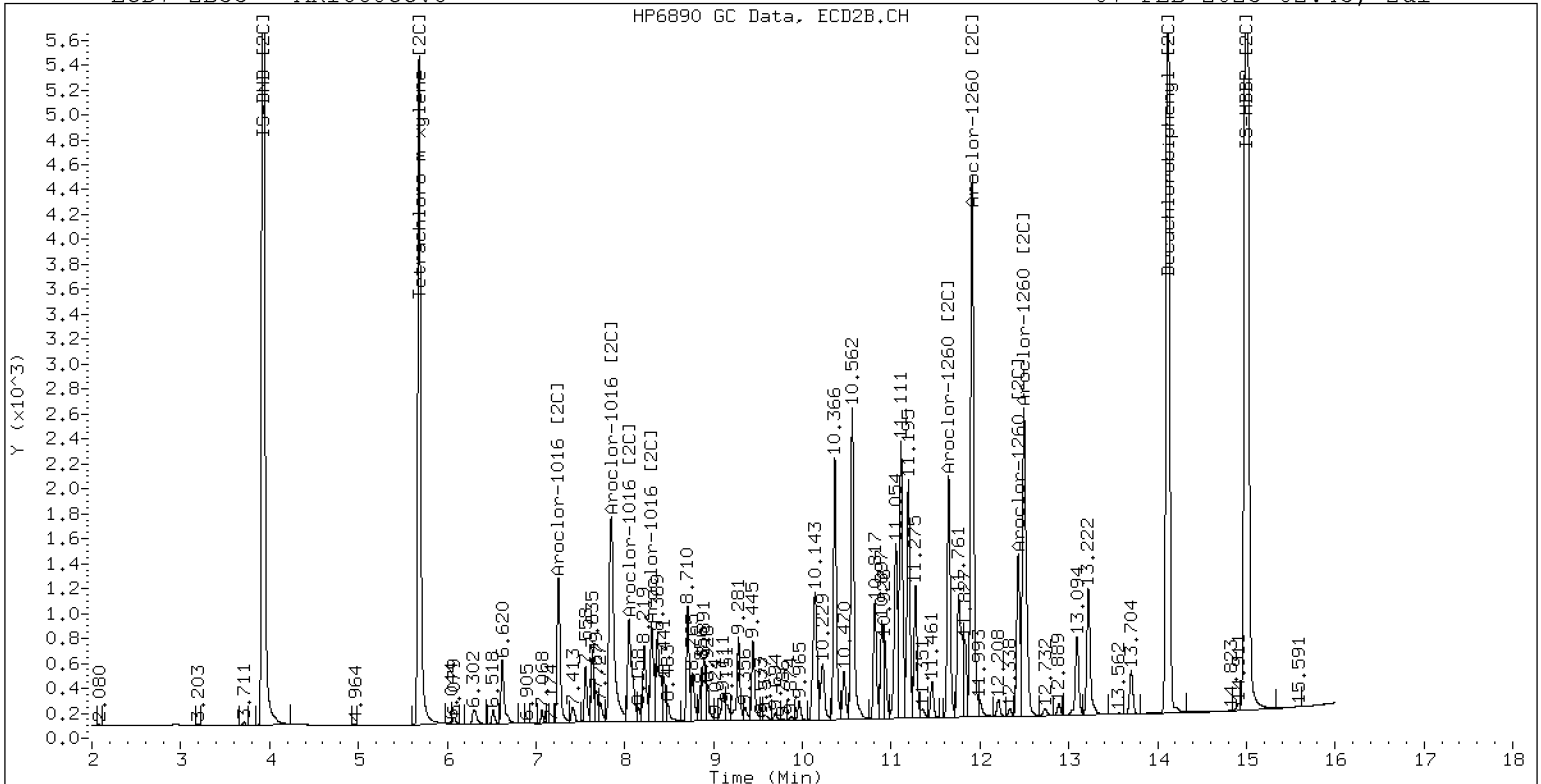
07-FEB-2023 02:43, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660CCV8

07-FEB-2023 02:43, 2ul



ZB-35 Manual Integration: NO



CONTINUING CALIBRATION CHECK
EPA 8082A

| | | | |
|----------------|----------------------------------|-------------------|------------------------|
| Laboratory: | <u>Analytical Resources, LLC</u> | SDG: | <u>23A0180</u> |
| Client: | <u>Anchor QEA, LLC</u> | Project: | <u>AOC5 MR Phase 1</u> |
| Instrument ID: | <u>ECD7</u> | Calibration: | <u>GA00061</u> |
| Lab File ID: | <u>02072305ECD7.D</u> | Calibration Date: | <u>01/24/2023</u> |
| Sequence: | <u>SLB0109</u> | Injection Date: | <u>02/07/23</u> |
| Lab Sample ID: | <u>SLB0109-CCV1</u> | Injection Time: | <u>14:05</u> |
| Sequence Name: | <u>AR1248CCV1</u> | | |

| COMPOUND | TYPE | CONC. (ug/L) | | RESPONSE FACTOR (RRF) | | | % DRIFT/DIFF | |
|----------------------------|------|--------------|------|-----------------------|-----------|-----|--------------|-------|
| | | STD | CCV | ICAL | CCV | MIN | CCV | LIMIT |
| Aroclor 1248 | A | 250.00 | 234 | 0.0592639 | 0.0552170 | | -6.3 | +/-20 |
| Aroclor-1248 (1) | A | 250.00 | 264 | | 0.0422431 | | | |
| Aroclor-1248 (2) | A | 250.00 | 257 | | 0.0524809 | | | |
| Aroclor-1248 (3) | A | 250.00 | 231 | | 0.0903932 | | | |
| Aroclor-1248 (4) | A | 250.00 | 185 | | 0.0357508 | | | |
| Aroclor 1248 [2C] | A | 250.00 | 253 | 0.0453673 | 0.0457379 | | 1.0 | +/-20 |
| Aroclor-1248 (1) [2C] | A | 250.00 | 264 | | 0.0382591 | | | |
| Aroclor-1248 (2) [2C] | A | 250.00 | 243 | | 0.0378548 | | | |
| Aroclor-1248 (3) [2C] | A | 250.00 | 257 | | 0.0488982 | | | |
| Aroclor-1248 (4) [2C] | A | 250.00 | 246 | | 0.0579395 | | | |
| Decachlorobiphenyl | A | 40.000 | 35.5 | 0.8555994 | 0.7586242 | | -11.3 | +/-20 |
| Tetrachlorometaxylene | A | 40.000 | 41.5 | 1.1307870 | 1.1743470 | | 3.8 | +/-20 |
| Decachlorobiphenyl [2C] | A | 40.000 | 38.0 | 1.2696430 | 1.2064340 | | -5.0 | +/-20 |
| Tetrachlorometaxylene [2C] | A | 40.000 | 42.0 | 1.0814980 | 1.1361780 | | 5.0 | +/-20 |

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230207.b/02072305ECD7.D
Data file 2: /230207.b/230207.b/02072305ECD7.D
Method: \\target\share\chem4\ecd7.i\230207.b\PCB.m
Compound Sublist: AR1248.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1248CCV1
Client ID:
Injection Date: 07-FEB-2023 14:05
Report Date: 02/08/2023 11:48
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

| RT | ZB5 Col Shift | Response | RT | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag |
|--------|---------------|----------|--------|----------------|----------|------------|-------------|-----|----------------------|
| 5.808 | 0.000 | 214107 | 5.686 | 0.001 | 178505 | 41.5 | 42.0 | 1.2 | Tetrachloro-m-xylene |
| 13.888 | 0.000 | 231776 | 14.115 | -0.002 | 247988 | 35.5 | 38.0 | 6.9 | Decachlorobiphenyl |

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1 | | | |
|--------------------|----------------|-------------|-------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 503318 | 364640 | -27.6 |
| Hexabromobiphenyl | 647433 | 611043 | -5.6 |
| Column 2 | | | |
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 336911 | 314220 | -6.7 |
| Hexabromobiphenyl | 382032 | 411109 | 7.6 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-JAN-2023
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | | ZB35 Col | | | | | |
|--------------------------|-------|-------|-------|--------|--------------------------|----------|-------|-------|-------|----------|--|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount | |
| Aroclor-1248 | 1 | 8.401 | 0.000 | 48136 | 263.9 | 1 | 8.303 | 0.000 | 37568 | 264.5 | |
| Aroclor-1248 | 2 | 8.574 | 0.000 | 59802 | 257.0 | 2 | 8.710 | 0.001 | 37171 | 243.1 | |
| Aroclor-1248 | 3 | 8.994 | 0.000 | 103003 | 231.4 | 3 | 9.151 | 0.000 | 48015 | 257.0 | |
| Aroclor-1248 | 4 | 9.292 | 0.000 | 40738 | 184.9 | 4 | 9.575 | 0.001 | 56893 | 246.3 | |
| Total CollAve (4 peaks): | | | | 234.3 | Total Col2Ave (4 peaks): | | | | 252.7 | RPD = 8 | |
| Corrected Ave (3 peaks): | | | | 224.4 | Corrected Ave (3 peaks): | | | | 248.8 | RPD = 10 | |
| CalAmt %D: | | | | -6.3 | CalAmt %D: | | | | 1.1 | | |

Total PCB Area Col1 (5.908 - 13.788) = 949355 Col1 Total PCB = 0.2 ppm*

Total PCB Area Col2 (5.785 - 14.017) = 726378 Col2 Total PCB = 0.2 ppm*

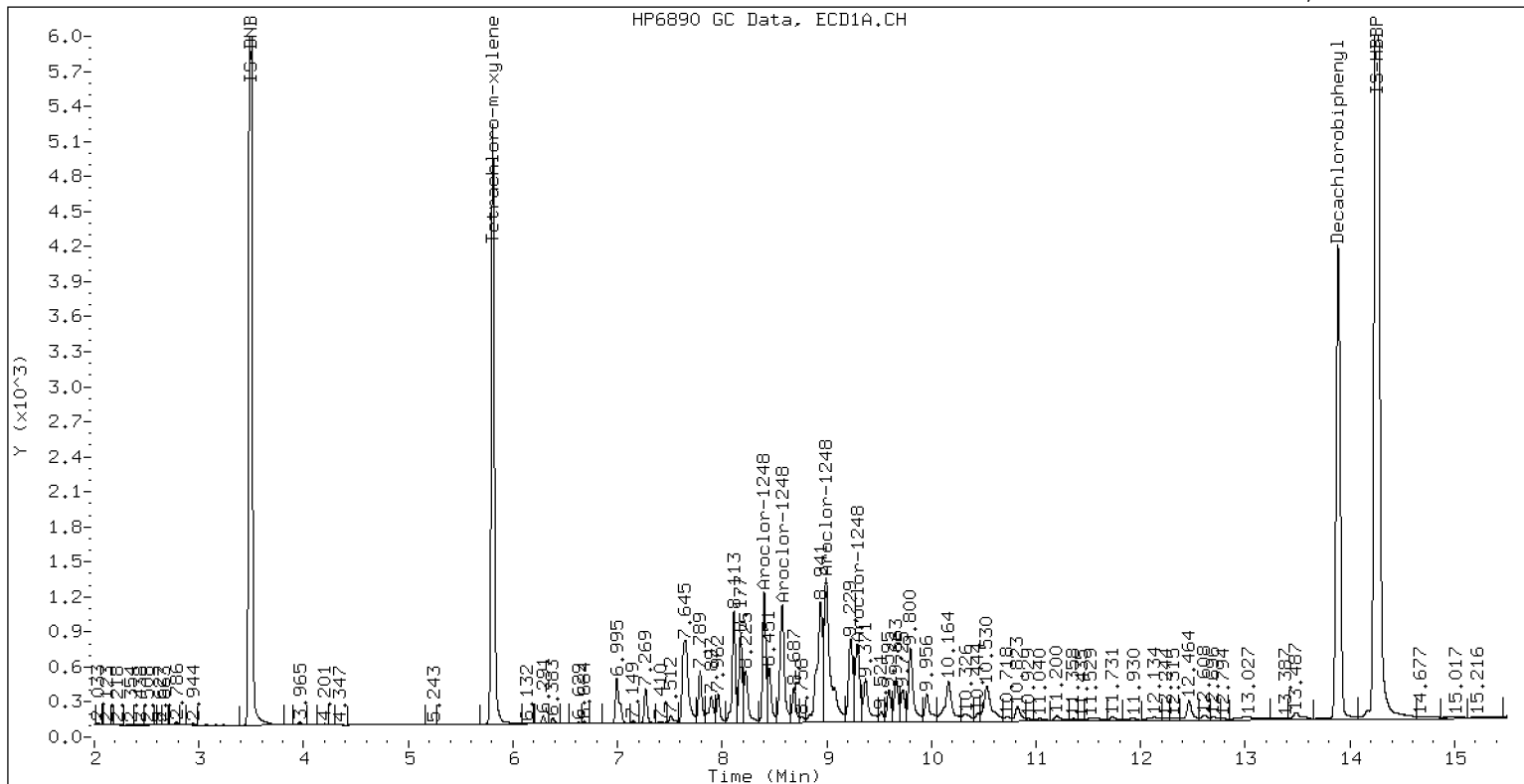
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 AR1248CCV1

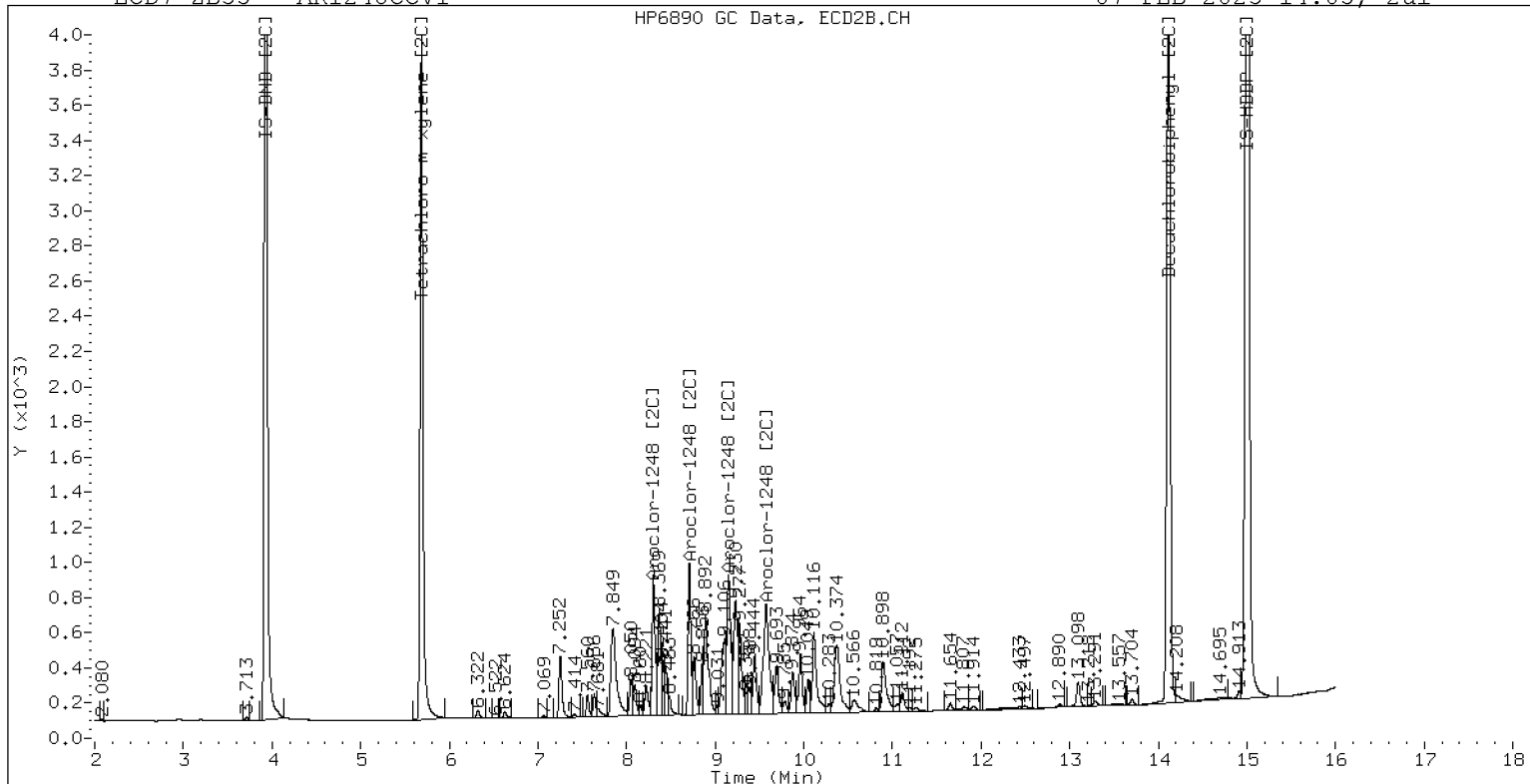
07-FEB-2023 14:05, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 AR1248CCV1

07-FEB-2023 14:05, 2ul



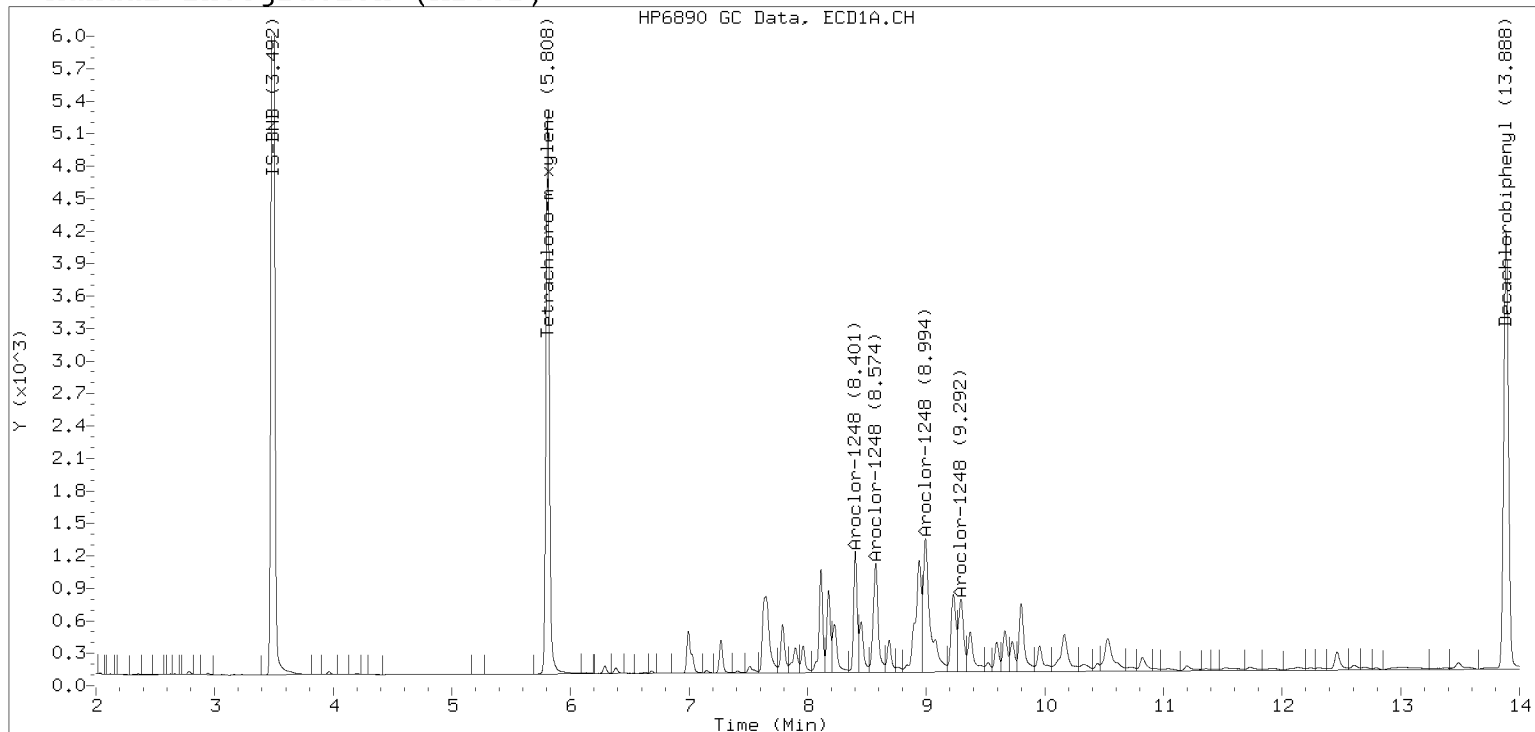
ZB-35 Manual Integration: NO

Manual Peak Adjustment, ZB-5

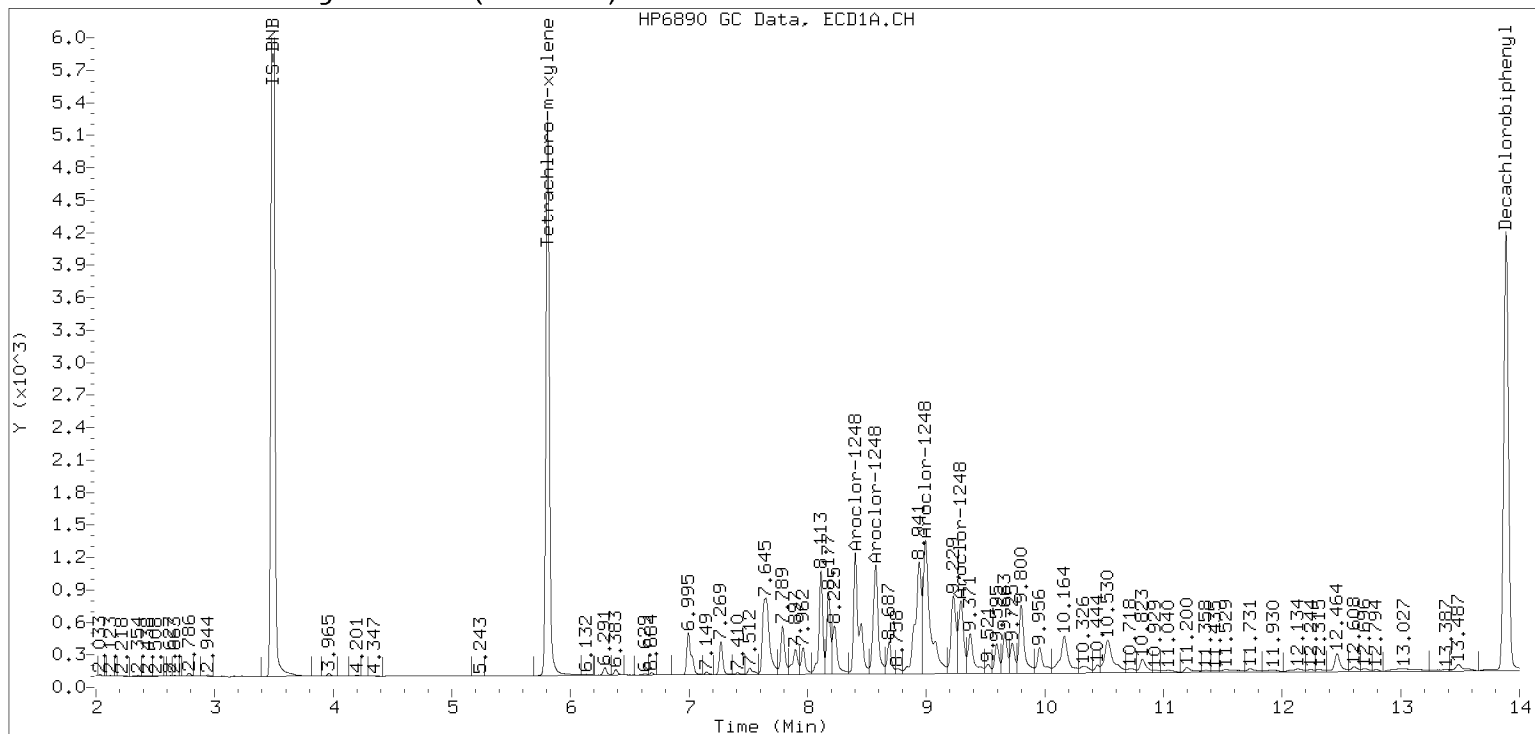
Datafile: ecd7.i/230207.b/02072305ECD7.D

Injection Date: 07-FEB-2023 14:05

Manual Integration (After)



Processed Integration (Before)



Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230207.b/02072306ECD7.D
Data file 2: /230207.b/230207.b/02072306ECD7.D
Method: \\target\share\chem4\ecd7.i\230207.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660CCV2
Client ID:
Injection Date: 07-FEB-2023 14:26
Report Date: 02/08/2023 11:48
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

| ZB5 Col | | ZB35 Col | | | ZB5 | ZB35 | RPD | Compound/Flag | |
|---------|--------|----------|--------|--------|----------|--------|------|---------------|----------------------|
| RT | Shift | Response | RT | Shift | Response | on col | | | on col |
| 5.808 | -0.000 | 198735 | 5.685 | 0.001 | 162510 | 43.0 | 42.5 | 1.3 | Tetrachloro-m-xylene |
| 13.888 | -0.000 | 230343 | 14.116 | -0.001 | 246097 | 37.4 | 39.5 | 5.5 | Decachlorobiphenyl |

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | |
|--------------------|----------------|-------------|-------|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 503318 | 326865 | -35.1 |
| Hexabromobiphenyl | 647433 | 575931 | -11.0 |

| Standard Cpnd | Column 2 | | |
|--------------------|----------------|-------------|-------|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 336911 | 283100 | -16.0 |
| Hexabromobiphenyl | 382032 | 392356 | 2.7 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-JAN-2023
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | ZB35 Col | | | | | |
|--------------------------|-------|--------|--------|--------|--------------------------|-------|--------|--------|--------|----------|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount |
| Aroclor-1016 | 1 | 7.269 | -0.001 | 31800 | 261.8 | 1 | 7.254 | 0.000 | 40266 | 262.2 |
| Aroclor-1016 | 2 | 7.649 | -0.001 | 105156 | 261.3 | 2 | 7.850 | 0.002 | 87359 | 259.6 |
| Aroclor-1016 | 3 | 7.787 | -0.001 | 44421 | 239.9 | 3 | 8.049 | 0.001 | 37203 | 270.9 |
| Aroclor-1016 | 4 | 8.402 | -0.002 | 31565 | 265.0 | 4 | 8.303 | 0.000 | 27941 | 259.6 |
| Total CollAve (4 peaks): | | | | 257.0 | Total Col2Ave (4 peaks): | | | | 263.1 | RPD = 2 |
| Corrected Ave (3 peaks): | | | | 254.3 | Corrected Ave (3 peaks): | | | | 260.5 | RPD = 2 |
| CalAmt %D: | | | | 2.8 | CalAmt %D: | | | | 5.2 | |
| Aroclor-1260 | 1 | 11.040 | -0.003 | 65345 | 202.2 | 1 | 11.650 | 0.001 | 63561 | 224.6 |
| Aroclor-1260 | 2 | 11.356 | -0.005 | 67082 | 201.9 | 2 | 11.912 | -0.000 | 155123 | 216.6 |
| Aroclor-1260 | 3 | 11.729 | -0.005 | 171612 | 196.2 | 3 | 12.431 | -0.001 | 41715 | 233.7 |
| Aroclor-1260 | 4 | 12.132 | -0.007 | 87440 | 193.5 | 4 | 12.496 | 0.000 | 102364 | 220.9 |
| Aroclor-1260 | 5 | 12.239 | -0.005 | 35739 | 181.5 | NS | --- | | | ---- |
| Total CollAve (5 peaks): | | | | 195.1 | Total Col2Ave (4 peaks): | | | | 223.9 | RPD = 14 |
| Corrected Ave (4 peaks): | | | | 193.3 | Corrected Ave (3 peaks): | | | | 220.7 | RPD = 13 |
| CalAmt %D: | | | | -22.0 | CalAmt %D: | | | | -10.4 | |

Total PCB Area Col1 (5.908 - 13.788) = 1871210 Col1 Total PCB = 0.5 ppm*

Total PCB Area Col2 (5.785 - 14.017) = 1526856 Col2 Total PCB = 0.5 ppm*

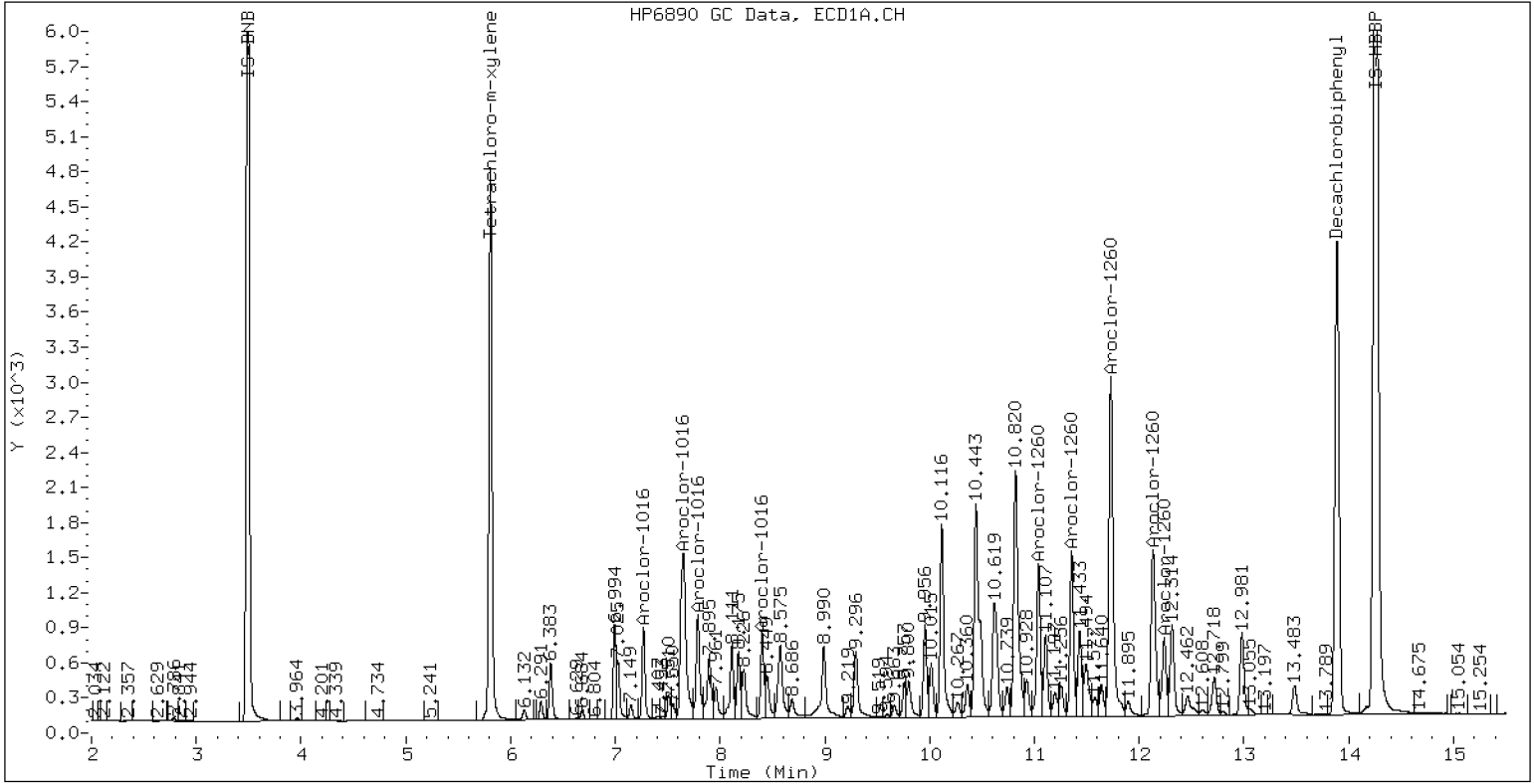
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCV2

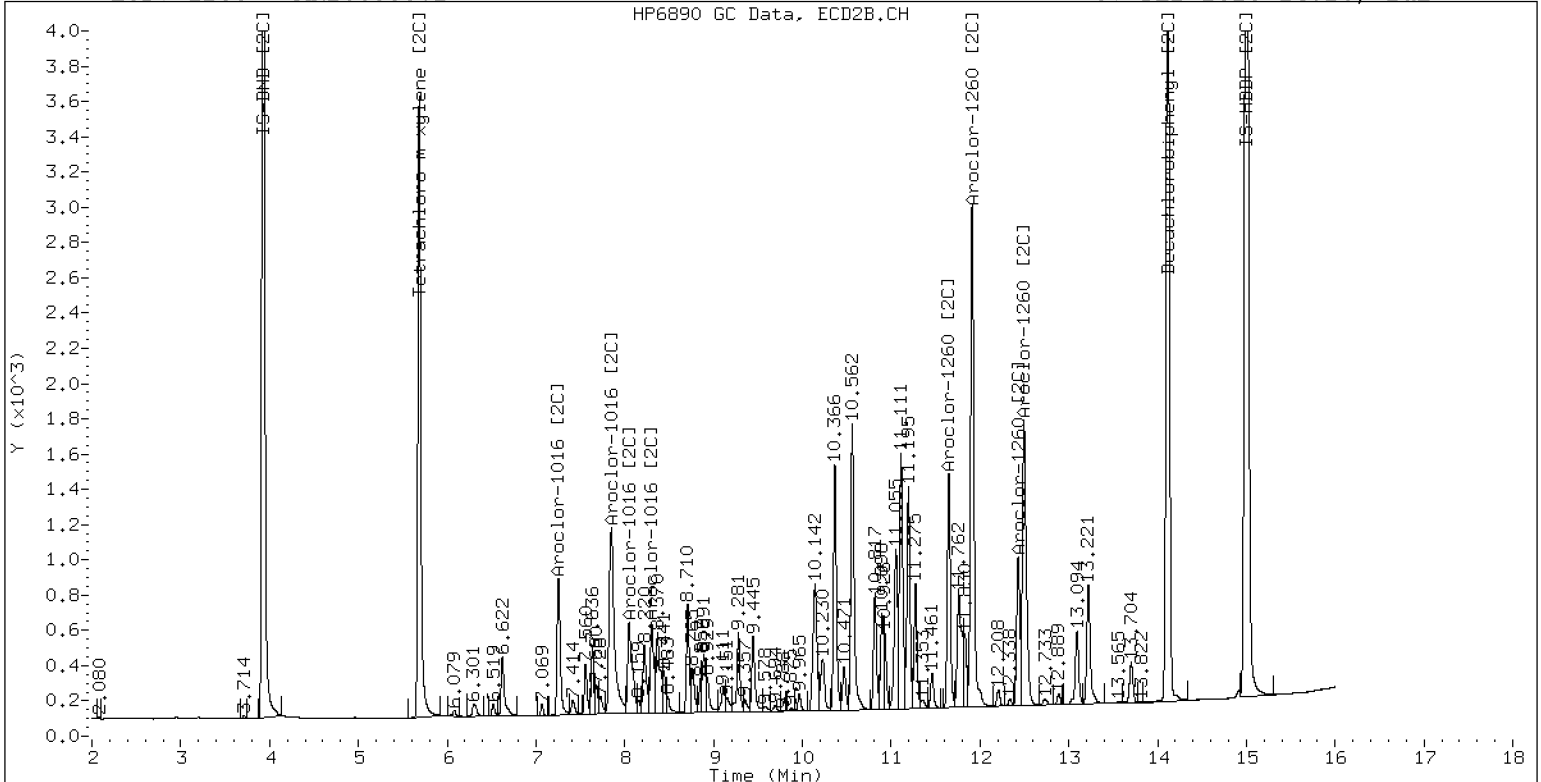
07-FEB-2023 14:26, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660CCV2

07-FEB-2023 14:26, 2ul



ZB-35 Manual Integration: NO



CONTINUING CALIBRATION CHECK
EPA 8082A

| | | | |
|----------------|----------------------------------|-------------------|------------------------|
| Laboratory: | <u>Analytical Resources, LLC</u> | SDG: | <u>23A0180</u> |
| Client: | <u>Anchor QEA, LLC</u> | Project: | <u>AOC5 MR Phase 1</u> |
| Instrument ID: | <u>ECD7</u> | Calibration: | <u>GA00061</u> |
| Lab File ID: | <u>02072320ECD7.D</u> | Calibration Date: | <u>01/24/2023</u> |
| Sequence: | <u>SLB0109</u> | Injection Date: | <u>02/07/23</u> |
| Lab Sample ID: | <u>SLB0109-CCV3</u> | Injection Time: | <u>19:21</u> |
| Sequence Name: | <u>AR1242CCV3</u> | | |

| COMPOUND | TYPE | CONC. (ug/L) | | RESPONSE FACTOR (RRF) | | | % DRIFT/DIFF | |
|----------------------------|------|--------------|------|-----------------------|-----------|-----|--------------|---------|
| | | STD | CCV | ICAL | CCV | MIN | CCV | LIMIT |
| Aroclor 1242 | A | 250.00 | 252 | 0.0411165 | 0.0415590 | | 0.6 | +/-20 |
| Aroclor-1242 (1) | A | 250.00 | 258 | | 0.0252677 | | | |
| Aroclor-1242 (2) | A | 250.00 | 256 | | 0.0822019 | | | |
| Aroclor-1242 (3) | A | 250.00 | 248 | | 0.0236390 | | | |
| Aroclor-1242 (4) | A | 250.00 | 244 | | 0.0351274 | | | |
| Aroclor 1242 [2C] | A | 250.00 | 253 | 0.0423236 | 0.0429888 | | 1.1 | +/-20 |
| Aroclor-1242 (1) [2C] | A | 250.00 | 270 | | 0.0378492 | | | |
| Aroclor-1242 (2) [2C] | A | 250.00 | 255 | | 0.0794201 | | | |
| Aroclor-1242 (3) [2C] | A | 250.00 | 254 | | 0.0247068 | | | |
| Aroclor-1242 (4) [2C] | A | 250.00 | 232 | | 0.0299789 | | | |
| Decachlorobiphenyl | A | 40.000 | 35.7 | 0.8555994 | 0.7630345 | | -10.8 | +/-20 |
| Tetrachlorometaxylene | A | 40.000 | 50.6 | 1.1307870 | 1.4304890 | | 26.5 | +/-20 * |
| Decachlorobiphenyl [2C] | A | 40.000 | 37.9 | 1.2696430 | 1.2033350 | | -5.3 | +/-20 |
| Tetrachlorometaxylene [2C] | A | 40.000 | 50.8 | 1.0814980 | 1.3732900 | | 27.0 | +/-20 * |

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230207.b/02072320ECD7.D
Data file 2: /230207.b/230207.b/02072320ECD7.D
Method: \\target\share\chem4\ecd7.i\230207.b\PCB.m
Compound Sublist: AR1242.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1242CCV3
Client ID:
Injection Date: 07-FEB-2023 19:21
Report Date: 02/08/2023 11:48
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

| ZB5 Col | | ZB35 Col | | | ZB5 | ZB35 | RPD | Compound/Flag | |
|---------|--------|----------|--------|--------|----------|--------|------|---------------|----------------------|
| RT | Shift | Response | RT | Shift | Response | on col | | | on col |
| 5.808 | -0.000 | 256463 | 5.685 | 0.001 | 215139 | 50.6 | 50.8 | 0.4 | Tetrachloro-m-xylene |
| 13.889 | 0.001 | 152803 | 14.116 | -0.001 | 194983 | 35.7 | 37.9 | 6.1 | Decachlorobiphenyl |

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1 | | | |
|--------------------|----------------|-------------|-------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 503318 | 358567 | -28.8 |
| Hexabromobiphenyl | 647433 | 400514 | -38.1 |

| Column 2 | | | |
|--------------------|----------------|-------------|-------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 336911 | 313319 | -7.0 |
| Hexabromobiphenyl | 382032 | 324071 | -15.2 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-JAN-2023
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | | ZB35 Col | | | | | |
|--------------------------|-------|-------|--------|-------|--------------------------|----------|-------|-------|-------|---------|--|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount | |
| Aroclor-1242 | 1 | 7.270 | -0.001 | 28313 | 257.9 | 1 | 7.253 | 0.000 | 37059 | 270.4 | |
| Aroclor-1242 | 2 | 7.650 | -0.005 | 92109 | 256.3 | 2 | 7.850 | 0.000 | 77762 | 255.5 | |
| Aroclor-1242 | 3 | 8.403 | -0.004 | 26488 | 248.1 | 3 | 9.153 | 0.002 | 24191 | 253.8 | |
| Aroclor-1242 | 4 | 8.575 | -0.006 | 39361 | 244.1 | 4 | 9.578 | 0.003 | 29353 | 232.4 | |
| Total CollAve (4 peaks): | | | | 251.6 | Total Col2Ave (4 peaks): | | | | 253.0 | RPD = 1 | |
| Corrected Ave (3 peaks): | | | | 249.5 | Corrected Ave (3 peaks): | | | | 247.2 | RPD = 1 | |
| CalAmt %D: | | | | 0.6 | CalAmt %D: | | | | 1.2 | | |

Total PCB Area Col1 (5.908 - 13.788) = 654543 Col1 Total PCB = 0.2 ppm*

Total PCB Area Col2 (5.785 - 14.017) = 549624 Col2 Total PCB = 0.2 ppm*

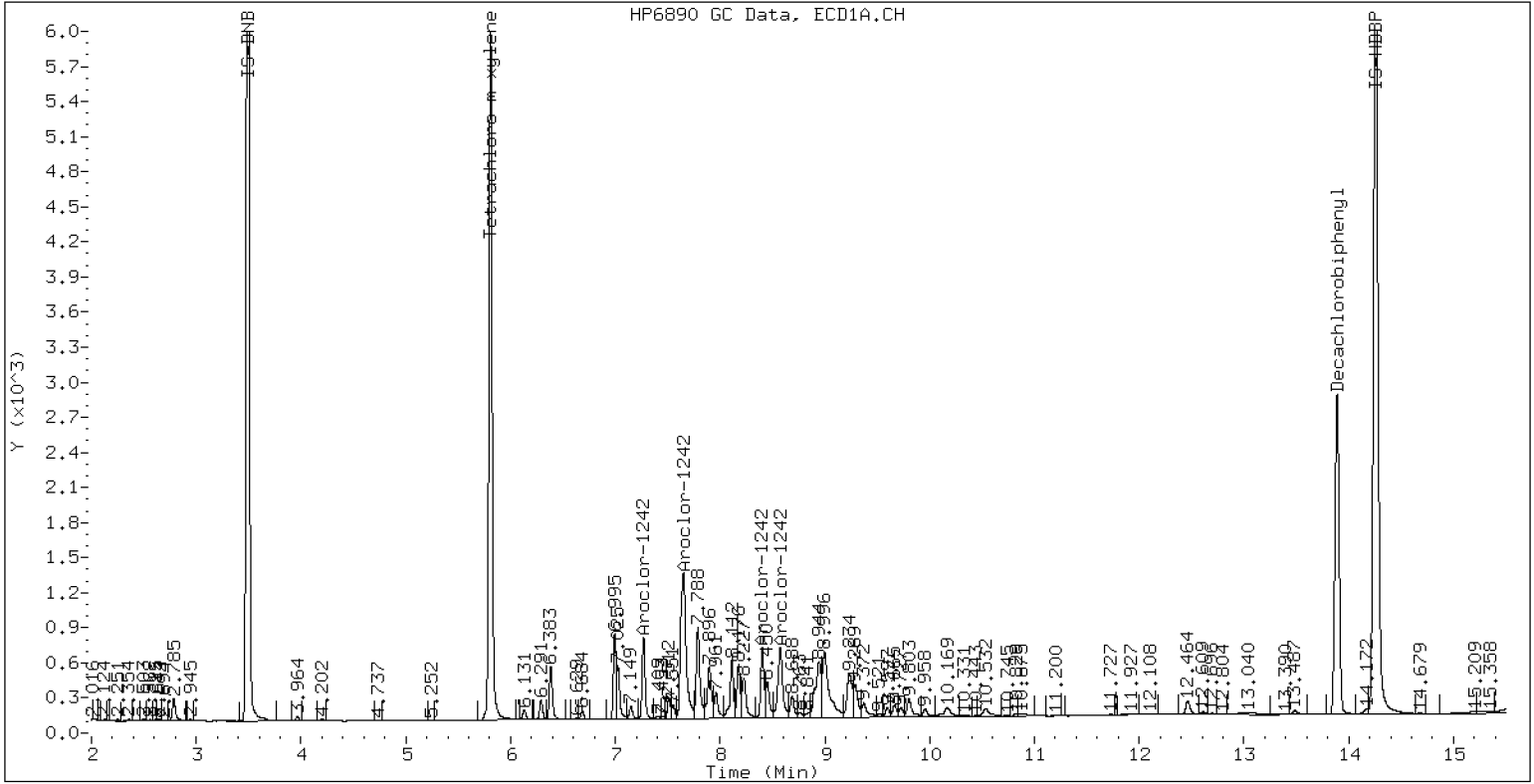
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 AR1242CCV3

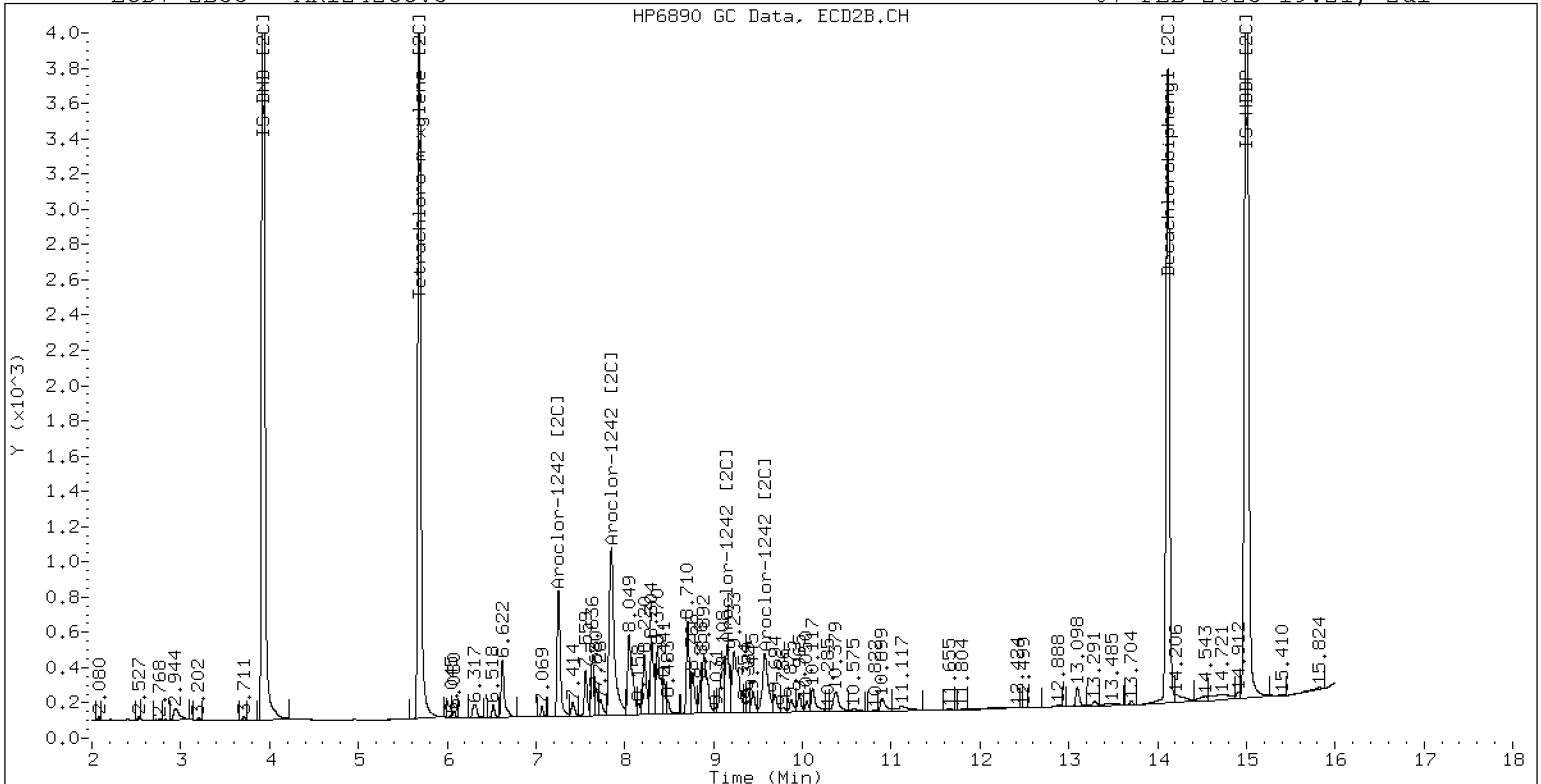
07-FEB-2023 19:21, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1242CCV3

07-FEB-2023 19:21, 2ul



ZB-35 Manual Integration: NO



CONTINUING CALIBRATION CHECK EPA 8082A

| | |
|--|-------------------------------------|
| Laboratory: <u>Analytical Resources, LLC</u> | SDG: <u>23A0180</u> |
| Client: <u>Anchor QEA, LLC</u> | Project: <u>AOC5 MR Phase 1</u> |
| Instrument ID: <u>ECD7</u> | Calibration: <u>GA00061</u> |
| Lab File ID: <u>02072321ECD7.D</u> | Calibration Date: <u>01/24/2023</u> |
| Sequence: <u>SLB0109</u> | Injection Date: <u>02/07/23</u> |
| Lab Sample ID: <u>SLB0109-CCV4</u> | Injection Time: <u>19:42</u> |
| Sequence Name: <u>AR1660CCV4</u> | |

| COMPOUND | TYPE | CONC. (ug/L) | | RESPONSE FACTOR (RRF) | | | % DRIFT/DIFF | |
|----------------------------|------|--------------|------|-----------------------|-----------|-----|--------------|-------|
| | | STD | CCV | ICAL | CCV | MIN | CCV | LIMIT |
| Aroclor 1016 | A | 250.00 | 258 | 0.0506755 | 0.0523503 | | 3.1 | +/-20 |
| Aroclor-1016 (1) | A | 250.00 | 264 | 0.0297277 | 0.0314324 | | 5.6 | |
| Aroclor-1016 (2) | A | 250.00 | 263 | 0.0985017 | 0.1036056 | | 5.2 | |
| Aroclor-1016 (3) | A | 250.00 | 241 | 0.0453193 | 0.0436915 | | -3.6 | |
| Aroclor-1016 (4) | A | 250.00 | 263 | 0.0291533 | 0.0306715 | | 5.2 | |
| Aroclor 1016 [2C] | A | 250.00 | 262 | 0.0519244 | 0.0542726 | | 4.6 | +/-20 |
| Aroclor-1016 (1) [2C] | A | 250.00 | 263 | 0.0433907 | 0.0456468 | | 5.2 | |
| Aroclor-1016 (2) [2C] | A | 250.00 | 259 | 0.0950862 | 0.0985512 | | 3.6 | |
| Aroclor-1016 (3) [2C] | A | 250.00 | 268 | 0.0388014 | 0.0416728 | | 7.2 | |
| Aroclor-1016 (4) [2C] | A | 250.00 | 256 | 0.0304194 | 0.0312195 | | 2.4 | |
| Aroclor 1260 | A | 250.00 | 234 | 0.0605224 | 0.0569870 | | -6.2 | +/-20 |
| Aroclor-1260 (1) | A | 250.00 | 245 | 0.0448870 | 0.0440586 | | -2.0 | |
| Aroclor-1260 (2) | A | 250.00 | 242 | 0.0461412 | 0.0447015 | | -3.2 | |
| Aroclor-1260 (3) | A | 250.00 | 234 | 0.1214672 | 0.1138760 | | -6.4 | |
| Aroclor-1260 (4) | A | 250.00 | 232 | 0.0627593 | 0.0583725 | | -7.2 | |
| Aroclor-1260 (5) | A | 250.00 | 219 | 0.0273573 | 0.0239265 | | -12.4 | |
| Aroclor 1260 [2C] | A | 250.00 | 242 | 0.0836545 | 0.0800300 | | -3.4 | +/-20 |
| Aroclor-1260 (1) [2C] | A | 250.00 | 242 | 0.0577136 | 0.0559182 | | -3.2 | |
| Aroclor-1260 (2) [2C] | A | 250.00 | 236 | 0.1460113 | 0.1381574 | | -5.6 | |
| Aroclor-1260 (3) [2C] | A | 250.00 | 252 | 0.0363944 | 0.0366294 | | 0.8 | |
| Aroclor-1260 (4) [2C] | A | 250.00 | 236 | 0.0944986 | 0.0894148 | | -5.6 | |
| Decachlorobiphenyl | A | 40.000 | 39.0 | 0.8555994 | 0.8352066 | | -2.5 | +/-20 |
| Tetrachlorometaxylene | A | 40.000 | 43.0 | 1.1307870 | 1.2152580 | | 7.5 | +/-20 |
| Decachlorobiphenyl [2C] | A | 40.000 | 39.8 | 1.2696430 | 1.2645890 | | -0.5 | +/-20 |
| Tetrachlorometaxylene [2C] | A | 40.000 | 42.5 | 1.0814980 | 1.1493570 | | 6.3 | +/-20 |

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230207.b/02072321ECD7.D
Data file 2: /230207.b/230207.b/02072321ECD7.D
Method: \\target\share\chem4\ecd7.i\230207.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660CCV4
Client ID:
Injection Date: 07-FEB-2023 19:42
Report Date: 02/08/2023 11:48
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

| ZB5 Col | | ZB35 Col | | ZB5 | ZB35 | RPD | Compound/Flag | |
|---------|----------------|----------|----------------|--------|--------|------|---------------|----------------------|
| RT | Shift Response | RT | Shift Response | on col | on col | | | |
| 5.808 | -0.000 | 199072 | 5.685 -0.000 | 164927 | 43.0 | 42.5 | 1.1 | Tetrachloro-m-xylene |
| 13.888 | -0.000 | 179194 | 14.116 -0.001 | 212805 | 39.0 | 39.8 | 2.0 | Decachlorobiphenyl |

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1 | | | |
|--------------------|----------------|-------------|-------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 503318 | 327621 | -34.9 |
| Hexabromobiphenyl | 647433 | 429101 | -33.7 |

| Column 2 | | | |
|--------------------|----------------|-------------|-------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 336911 | 286990 | -14.8 |
| Hexabromobiphenyl | 382032 | 336560 | -11.9 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-JAN-2023
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | ZB35 Col | | | | | | |
|--------------------------|-------|--------|--------|--------|--------------------------|-------|--------|--------|--------|---------|--|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount | |
| Aroclor-1016 | 1 | 7.269 | -0.001 | 32181 | 264.3 | 1 | 7.253 | 0.000 | 40938 | 263.0 | |
| Aroclor-1016 | 2 | 7.650 | -0.001 | 106073 | 263.0 | 2 | 7.848 | -0.000 | 88385 | 259.1 | |
| Aroclor-1016 | 3 | 7.787 | -0.001 | 44732 | 241.0 | 3 | 8.049 | 0.001 | 37374 | 268.5 | |
| Aroclor-1016 | 4 | 8.402 | -0.002 | 31402 | 263.0 | 4 | 8.304 | 0.001 | 27999 | 256.6 | |
| Total CollAve (4 peaks): | | | | 257.8 | Total Col2Ave (4 peaks): | | | | 261.8 | RPD = 2 | |
| Corrected Ave (3 peaks): | | | | 255.7 | Corrected Ave (3 peaks): | | | | 259.6 | RPD = 2 | |
| CalAmt %D: | | | | 3.1 | CalAmt %D: | | | | 4.7 | | |
| Aroclor-1260 | 1 | 11.040 | -0.003 | 59080 | 245.4 | 1 | 11.648 | -0.000 | 58812 | 242.2 | |
| Aroclor-1260 | 2 | 11.356 | -0.004 | 59942 | 242.2 | 2 | 11.912 | 0.000 | 145307 | 236.6 | |
| Aroclor-1260 | 3 | 11.729 | -0.005 | 152701 | 234.4 | 3 | 12.431 | -0.001 | 38525 | 251.6 | |
| Aroclor-1260 | 4 | 12.131 | -0.008 | 78274 | 232.5 | 4 | 12.496 | 0.000 | 94042 | 236.6 | |
| Aroclor-1260 | 5 | 12.239 | -0.004 | 32084 | 218.6 | NS | --- | | | ---- | |
| Total CollAve (5 peaks): | | | | 234.6 | Total Col2Ave (4 peaks): | | | | 241.7 | RPD = 3 | |
| Corrected Ave (4 peaks): | | | | 231.9 | Corrected Ave (3 peaks): | | | | 238.4 | RPD = 3 | |
| CalAmt %D: | | | | -6.1 | CalAmt %D: | | | | -3.3 | | |

Total PCB Area Coll (5.908 - 13.788) = 1751866 Coll Total PCB = 0.5 ppm*

Total PCB Area Col2 (5.785 - 14.017) = 1468456 Col2 Total PCB = 0.5 ppm*

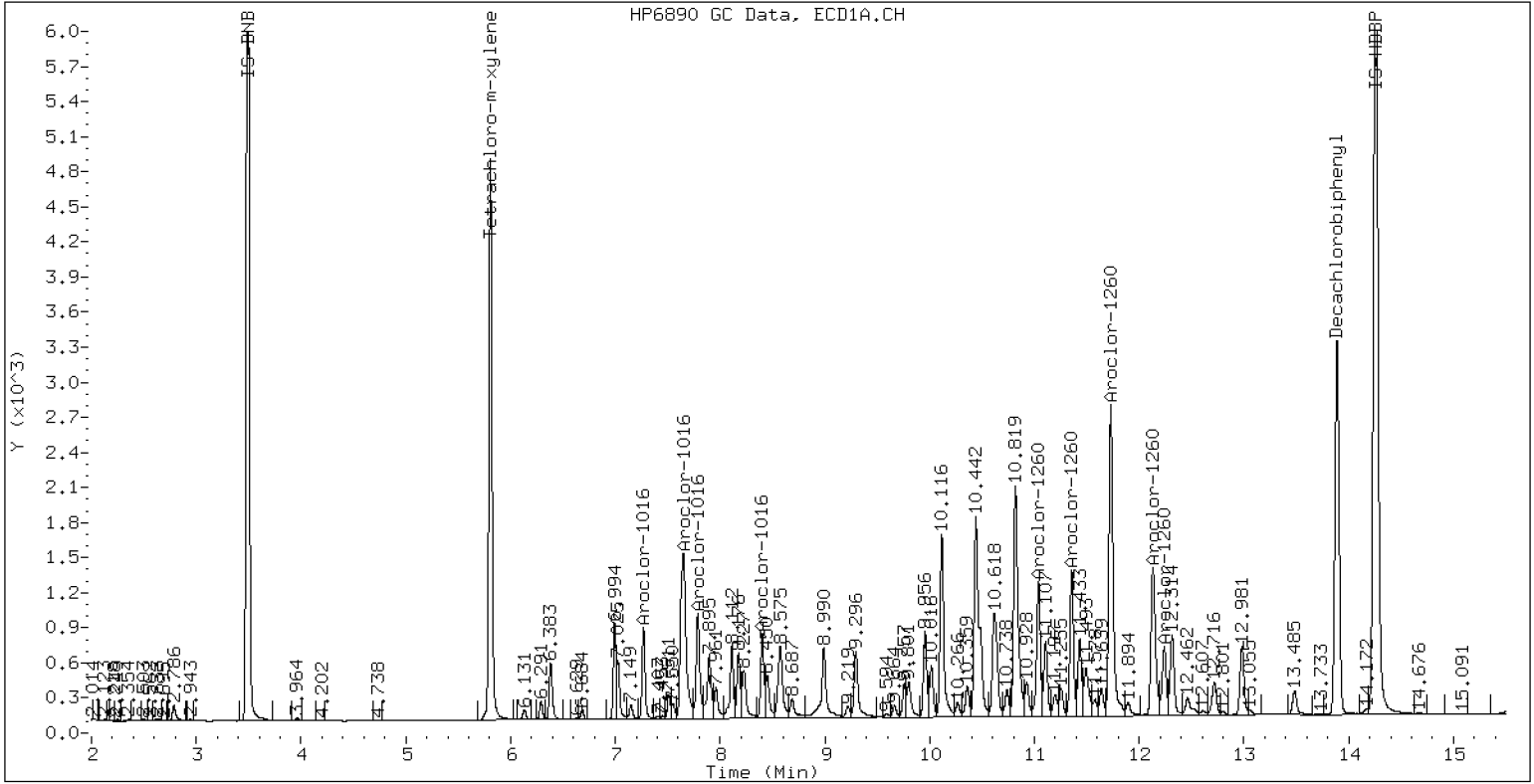
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCV4

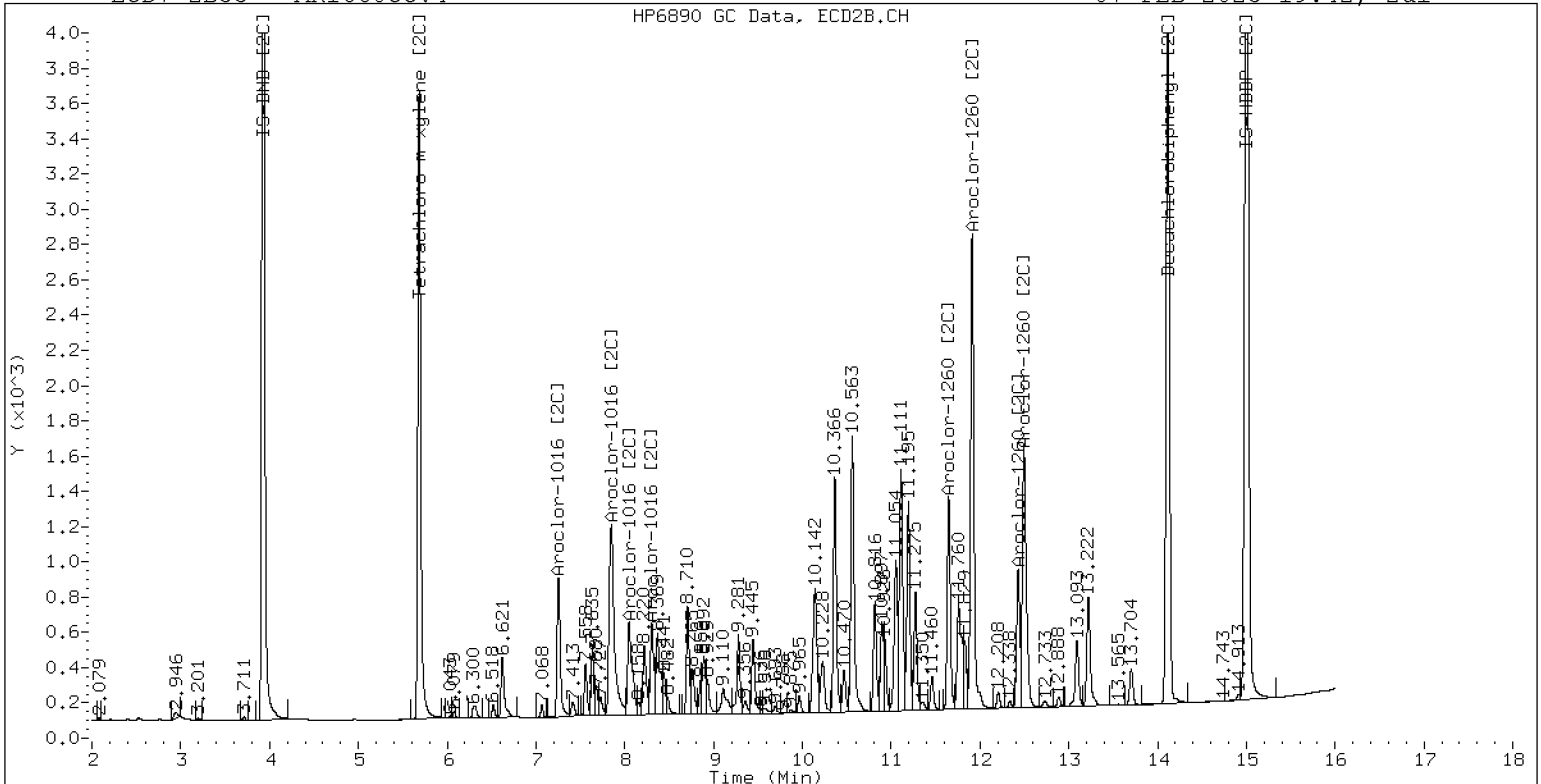
07-FEB-2023 19:42, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660CCV4

07-FEB-2023 19:42, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230207.b/02072329ECD7.D
Data file 2: /230207.b/230207.b/02072329ECD7.D
Method: \\target\share\chem4\ecd7.i\230207.b\PCB.m
Compound Sublist: AR1254.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1254CCV5
Client ID:
Injection Date: 07-FEB-2023 22:30
Report Date: 02/08/2023 11:48
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

| ZB5 Col | | ZB35 Col | | | ZB5 | ZB35 | RPD | Compound/Flag | |
|---------|--------|----------|--------|--------|----------|--------|------|---------------|----------------------|
| RT | Shift | Response | RT | Shift | Response | on col | | | on col |
| 5.807 | -0.001 | 204765 | 5.684 | -0.001 | 176374 | 39.3 | 40.1 | 2.0 | Tetrachloro-m-xylene |
| 13.888 | -0.001 | 126140 | 14.115 | -0.002 | 165506 | 34.5 | 37.2 | 7.4 | Decachlorobiphenyl |

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | |
|--------------------|----------------|-------------|-------|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 503318 | 368915 | -26.7 |
| Hexabromobiphenyl | 647433 | 341694 | -47.2 |

| Standard Cpnd | Column 2 | | |
|--------------------|----------------|-------------|-------|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 336911 | 325734 | -3.3 |
| Hexabromobiphenyl | 382032 | 280640 | -26.5 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-JAN-2023
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | | ZB35 Col | | | | | |
|--------------------------|-------|--------|--------|-------|--------|--------------------------|--------|-------|-------|--------|---------|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount | |
| Aroclor-1254 | 1 | 9.294 | -0.005 | 68348 | 181.8 | 1 | 9.444 | 0.000 | 48884 | 206.9 | |
| Aroclor-1254 | 2 | 9.371 | -0.007 | 28156 | 175.4 | 2 | 9.963 | 0.000 | 39079 | 204.6 | |
| Aroclor-1254 | 3 | 9.661 | -0.009 | 42685 | 177.2 | 3 | 10.114 | 0.000 | 78963 | 189.5 | |
| Aroclor-1254 | 4 | 9.798 | -0.010 | 87601 | 185.6 | 4 | 10.363 | 0.000 | 83866 | 201.3 | |
| Aroclor-1254 | 5 | 10.157 | -0.020 | 54742 | 178.3 | 5 | 10.562 | 0.000 | 38630 | 166.5 | |
| Total CollAve (5 peaks): | | | | 179.7 | | Total Col2Ave (5 peaks): | | | | 193.7 | RPD = 8 |
| Corrected Ave (4 peaks): | | | | 178.2 | | Corrected Ave (4 peaks): | | | | 190.5 | RPD = 7 |
| CalAmt %D: | | | | -28.1 | | CalAmt %D: | | | | -22.5 | |

Total PCB Area Col1 (5.908 - 13.788) = 876248 Col1 Total PCB = 0.2 ppm*

Total PCB Area Col2 (5.785 - 14.017) = 789304 Col2 Total PCB = 0.2 ppm*

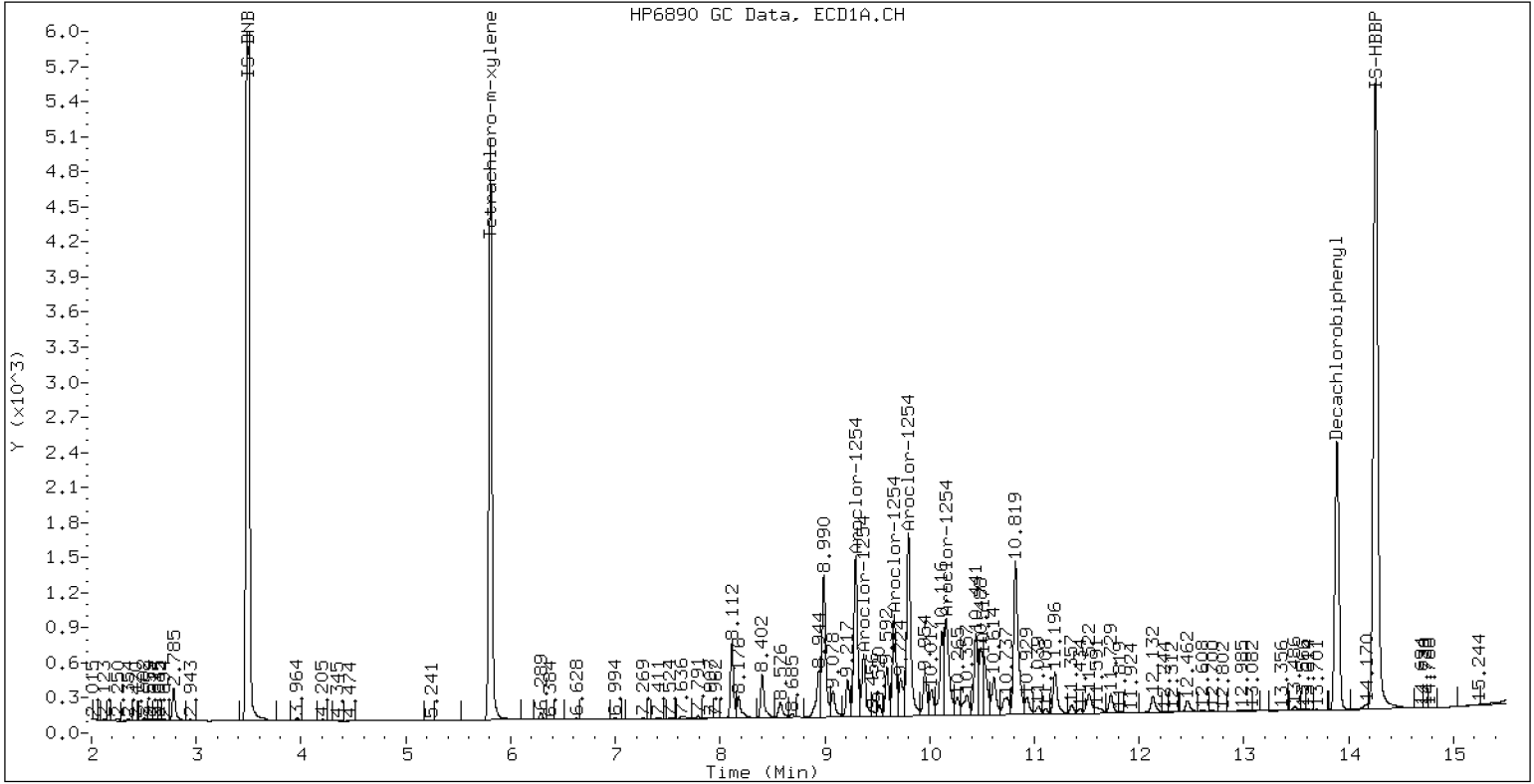
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 AR1254CCV5

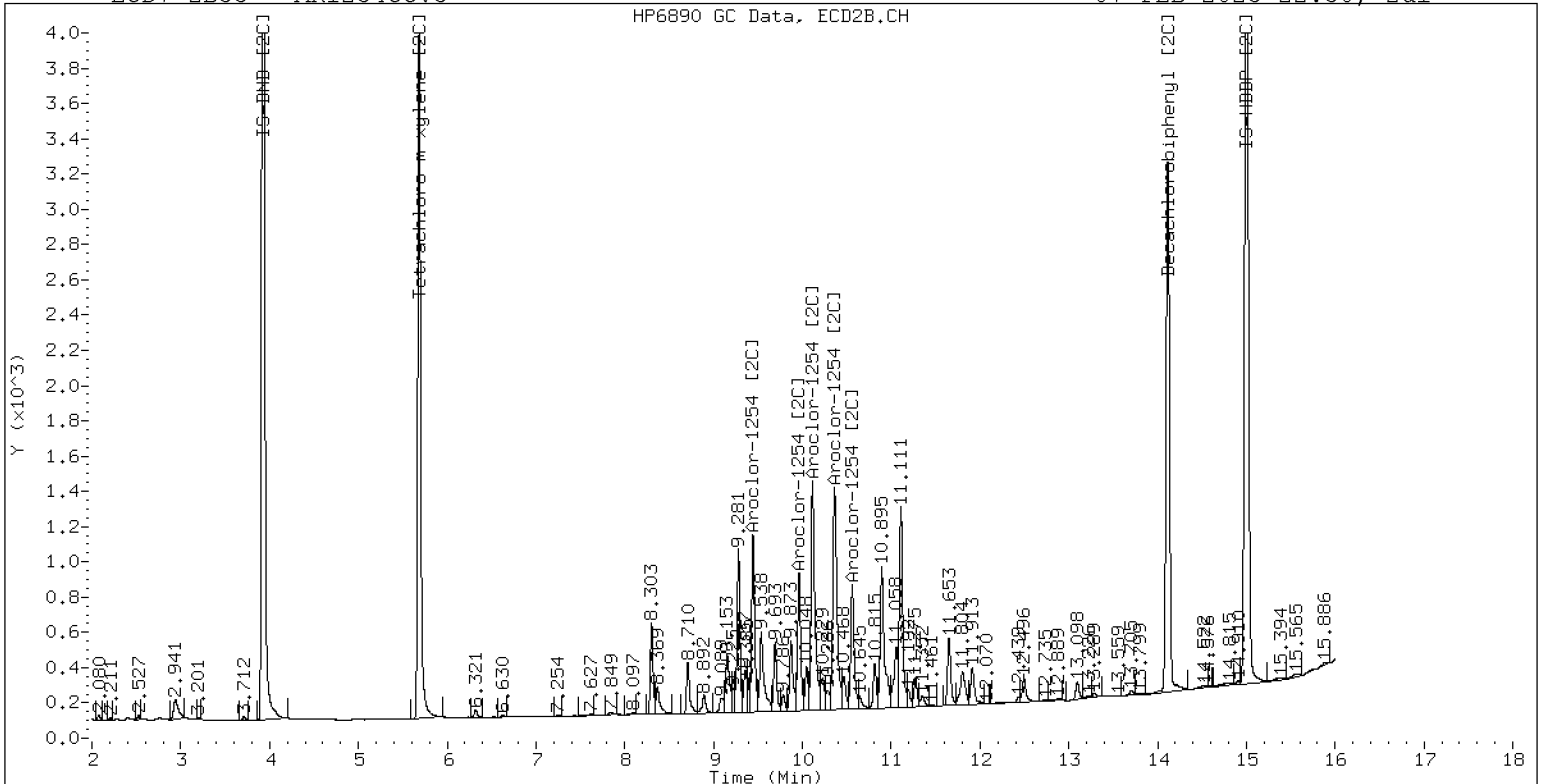
07-FEB-2023 22:30, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1254CCV5

07-FEB-2023 22:30, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230207.b/02072330ECD7.D
Data file 2: /230207.b/230207.b/02072330ECD7.D
Method: \\target\share\chem4\ecd7.i\230207.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660CCV6
Client ID:
Injection Date: 07-FEB-2023 22:51
Report Date: 02/08/2023 11:48
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

| ZB5 Col | | ZB35 Col | | | ZB5 | ZB35 | RPD | Compound/Flag | |
|---------|--------|----------|--------|--------|----------|--------|------|---------------|----------------------|
| RT | Shift | Response | RT | Shift | Response | on col | | | on col |
| 5.808 | -0.000 | 199053 | 5.685 | -0.000 | 166054 | 43.0 | 42.4 | 1.4 | Tetrachloro-m-xylene |
| 13.888 | -0.001 | 150584 | 14.116 | -0.001 | 185036 | 38.7 | 39.5 | 2.0 | Decachlorobiphenyl |

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1 | | | |
|--------------------|----------------|-------------|-------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 503318 | 327658 | -34.9 |
| Hexabromobiphenyl | 647433 | 363841 | -43.8 |

| Column 2 | | | |
|--------------------|----------------|-------------|-------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 336911 | 289849 | -14.0 |
| Hexabromobiphenyl | 382032 | 295463 | -22.7 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-JAN-2023
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | ZB35 Col | | | | | |
|--------------------------|-------|--------|--------|--------|----------|--------------------------|--------|--------|--------|---------------|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount |
| Aroclor-1016 | 1 | 7.269 | -0.001 | 31578 | 259.4 | 1 | 7.253 | 0.000 | 41259 | 262.4 |
| Aroclor-1016 | 2 | 7.650 | -0.001 | 104220 | 258.3 | 2 | 7.850 | 0.001 | 88735 | 257.6 |
| Aroclor-1016 | 3 | 7.787 | -0.001 | 43421 | 233.9 | 3 | 8.048 | 0.000 | 37624 | 267.6 |
| Aroclor-1016 | 4 | 8.402 | -0.002 | 30601 | 256.3 | 4 | 8.303 | 0.000 | 28018 | 254.2 |
| Total CollAve (4 peaks): | | | | 252.0 | | Total Col2Ave (4 peaks): | | | | 260.5 RPD = 3 |
| Corrected Ave (3 peaks): | | | | 249.5 | | Corrected Ave (3 peaks): | | | | 258.1 RPD = 3 |
| CalAmt %D: | | | | 0.8 | | CalAmt %D: | | | | 4.2 |
| Aroclor-1260 | 1 | 11.040 | -0.003 | 54153 | 265.3 | 1 | 11.649 | 0.000 | 55028 | 258.2 |
| Aroclor-1260 | 2 | 11.357 | -0.004 | 54070 | 257.7 | 2 | 11.912 | -0.000 | 133895 | 248.3 |
| Aroclor-1260 | 3 | 11.728 | -0.006 | 134087 | 242.7 | 3 | 12.432 | -0.000 | 35431 | 263.6 |
| Aroclor-1260 | 4 | 12.132 | -0.008 | 66334 | 232.4 | 4 | 12.496 | -0.000 | 85524 | 245.0 |
| Aroclor-1260 | 5 | 12.240 | -0.004 | 26956 | 216.7 | NS | --- | | | ---- |
| Total CollAve (5 peaks): | | | | 242.9 | | Total Col2Ave (4 peaks): | | | | 253.8 RPD = 4 |
| Corrected Ave (4 peaks): | | | | 237.4 | | Corrected Ave (3 peaks): | | | | 250.5 RPD = 5 |
| CalAmt %D: | | | | -2.8 | | CalAmt %D: | | | | 1.5 |

Total PCB Area Coll (5.908 - 13.788) = 1618375 Coll Total PCB = 0.4 ppm*

Total PCB Area Col2 (5.785 - 14.017) = 1408252 Col2 Total PCB = 0.5 ppm*

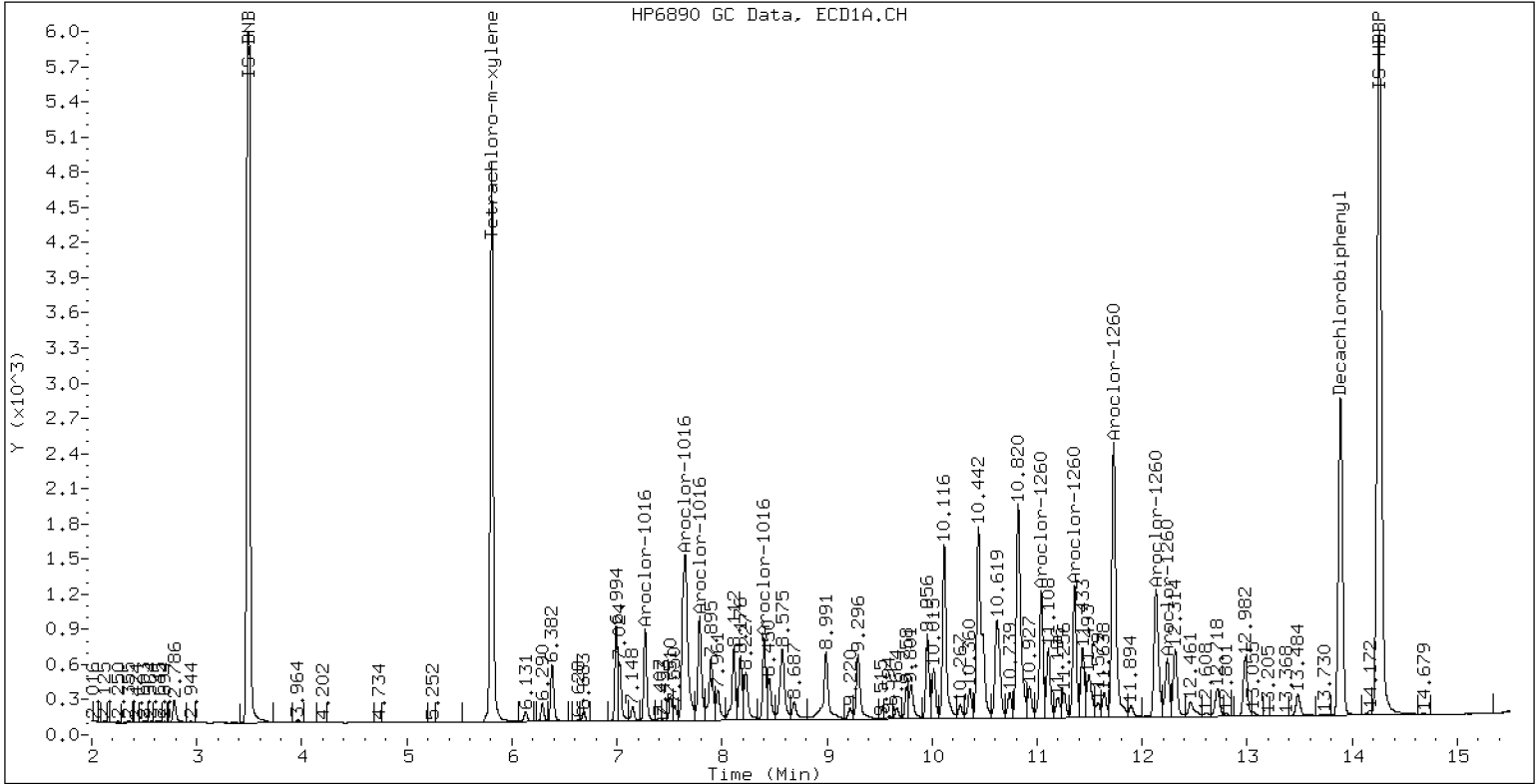
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCV6

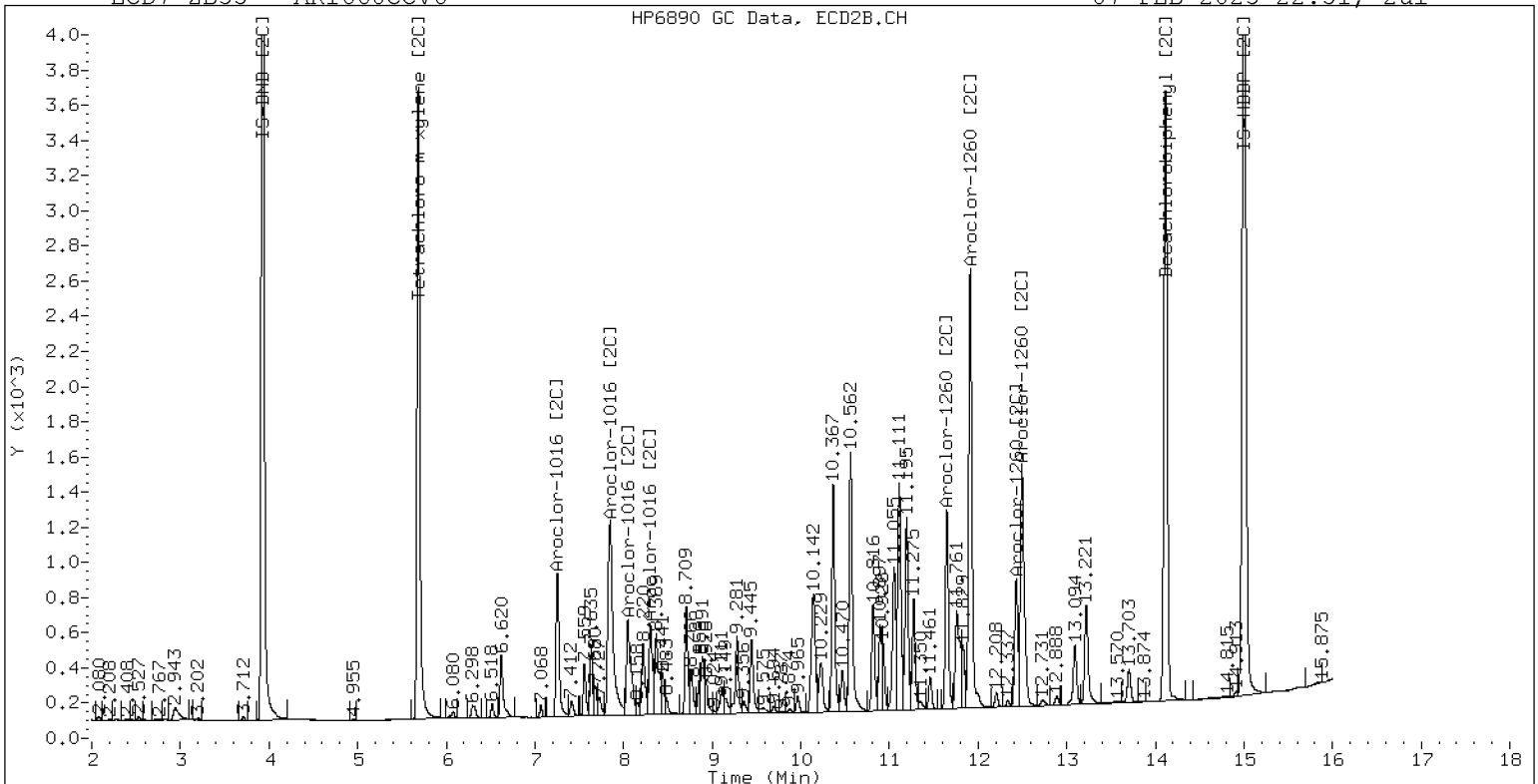
07-FEB-2023 22:51, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660CCV6

07-FEB-2023 22:51, 2ul



ZB-35 Manual Integration: NO



CONTINUING CALIBRATION CHECK
EPA 8082A

| | | | |
|----------------|----------------------------------|-------------------|------------------------|
| Laboratory: | <u>Analytical Resources, LLC</u> | SDG: | <u>23A0180</u> |
| Client: | <u>Anchor QEA, LLC</u> | Project: | <u>AOC5 MR Phase 1</u> |
| Instrument ID: | <u>ECD7</u> | Calibration: | <u>GA00061</u> |
| Lab File ID: | <u>02072346ECD7.D</u> | Calibration Date: | <u>01/24/2023</u> |
| Sequence: | <u>SLB0109</u> | Injection Date: | <u>02/08/23</u> |
| Lab Sample ID: | <u>SLB0109-CCV7</u> | Injection Time: | <u>04:27</u> |
| Sequence Name: | <u>AR1248CCV7</u> | | |

| COMPOUND | TYPE | CONC. (ug/L) | | RESPONSE FACTOR (RRF) | | | % DRIFT/DIFF | |
|----------------------------|------|--------------|------|-----------------------|-----------|-----|--------------|---------|
| | | STD | CCV | ICAL | CCV | MIN | CCV | LIMIT |
| Aroclor 1248 | A | 250.00 | 185 | 0.0592639 | 0.0417826 | | -26.0 | +/-20 * |
| Aroclor-1248 (1) | A | 250.00 | 224 | | 0.0358743 | | | |
| Aroclor-1248 (2) | A | 250.00 | 217 | | 0.0442434 | | | |
| Aroclor-1248 (3) | A | 250.00 | 149 | | 0.0580966 | | | |
| Aroclor-1248 (4) | A | 250.00 | 150 | | 0.0289162 | | | |
| Aroclor 1248 [2C] | A | 250.00 | 223 | 0.0453673 | 0.0402688 | | -11.0 | +/-20 |
| Aroclor-1248 (1) [2C] | A | 250.00 | 235 | | 0.0340014 | | | |
| Aroclor-1248 (2) [2C] | A | 250.00 | 214 | | 0.0333799 | | | |
| Aroclor-1248 (3) [2C] | A | 250.00 | 224 | | 0.0425488 | | | |
| Aroclor-1248 (4) [2C] | A | 250.00 | 217 | | 0.0511452 | | | |
| Decachlorobiphenyl | A | 40.000 | 35.5 | 0.8555994 | 0.7595303 | | -11.3 | +/-20 |
| Tetrachlorometaxylene | A | 40.000 | 39.8 | 1.1307870 | 1.1241490 | | -0.5 | +/-20 |
| Decachlorobiphenyl [2C] | A | 40.000 | 36.4 | 1.2696430 | 1.1542670 | | -9.0 | +/-20 |
| Tetrachlorometaxylene [2C] | A | 40.000 | 40.8 | 1.0814980 | 1.1045820 | | 2.0 | +/-20 |

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230207.b/02072346ECD7.D
Data file 2: /230207.b/230207.b/02072346ECD7.D
Method: \\target\share\chem4\ecd7.i\230207.b\PCB.m
Compound Sublist: AR1248.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1248CCV7
Client ID:
Injection Date: 08-FEB-2023 04:27
Report Date: 02/08/2023 11:49
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

| ZB5 Col | | ZB35 Col | | | ZB5 | ZB35 | RPD | Compound/Flag | |
|---------|--------|----------|--------|--------|----------|--------|------|---------------|----------------------|
| RT | Shift | Response | RT | Shift | Response | on col | | | on col |
| 5.807 | -0.001 | 205608 | 5.684 | -0.001 | 180302 | 39.8 | 40.9 | 2.7 | Tetrachloro-m-xylene |
| 13.889 | 0.001 | 125343 | 14.115 | -0.002 | 162694 | 35.5 | 36.4 | 2.4 | Decachlorobiphenyl |

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Column 1 | | | |
|--------------------|----------------|-------------|-------|
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 503318 | 365802 | -27.3 |
| Hexabromobiphenyl | 647433 | 330054 | -49.0 |
| Column 2 | | | |
| Standard Cpnd | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 336911 | 326462 | -3.1 |
| Hexabromobiphenyl | 382032 | 281900 | -26.2 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-JAN-2023
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | | ZB35 Col | | | | | |
|--------------------------|-------|-------|--------|-------|--------|--------------------------|-------|-------|-------|--------|----------|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount | |
| Aroclor-1248 | 1 | 8.401 | -0.000 | 41009 | 224.1 | 1 | 8.303 | 0.000 | 34688 | 235.1 | |
| Aroclor-1248 | 2 | 8.574 | -0.000 | 50576 | 216.7 | 2 | 8.710 | 0.000 | 34054 | 214.4 | |
| Aroclor-1248 | 3 | 8.993 | -0.001 | 66412 | 148.7 | 3 | 9.151 | 0.000 | 43408 | 223.6 | |
| Aroclor-1248 | 4 | 9.292 | -0.000 | 33055 | 149.6 | 4 | 9.575 | 0.000 | 52178 | 217.4 | |
| Total CollAve (4 peaks): | | | | 184.8 | | Total Col2Ave (4 peaks): | | | | 222.6 | RPD = 19 |
| Corrected Ave (3 peaks): | | | | 171.7 | | Corrected Ave (3 peaks): | | | | 218.5 | RPD = 24 |
| CalAmt %D: | | | | -26.1 | | CalAmt %D: | | | | -11.0 | |

Total PCB Area Col1 (5.908 - 13.788) = 736348 Col1 Total PCB = 0.2 ppm*

Total PCB Area Col2 (5.785 - 14.017) = 655812 Col2 Total PCB = 0.2 ppm*

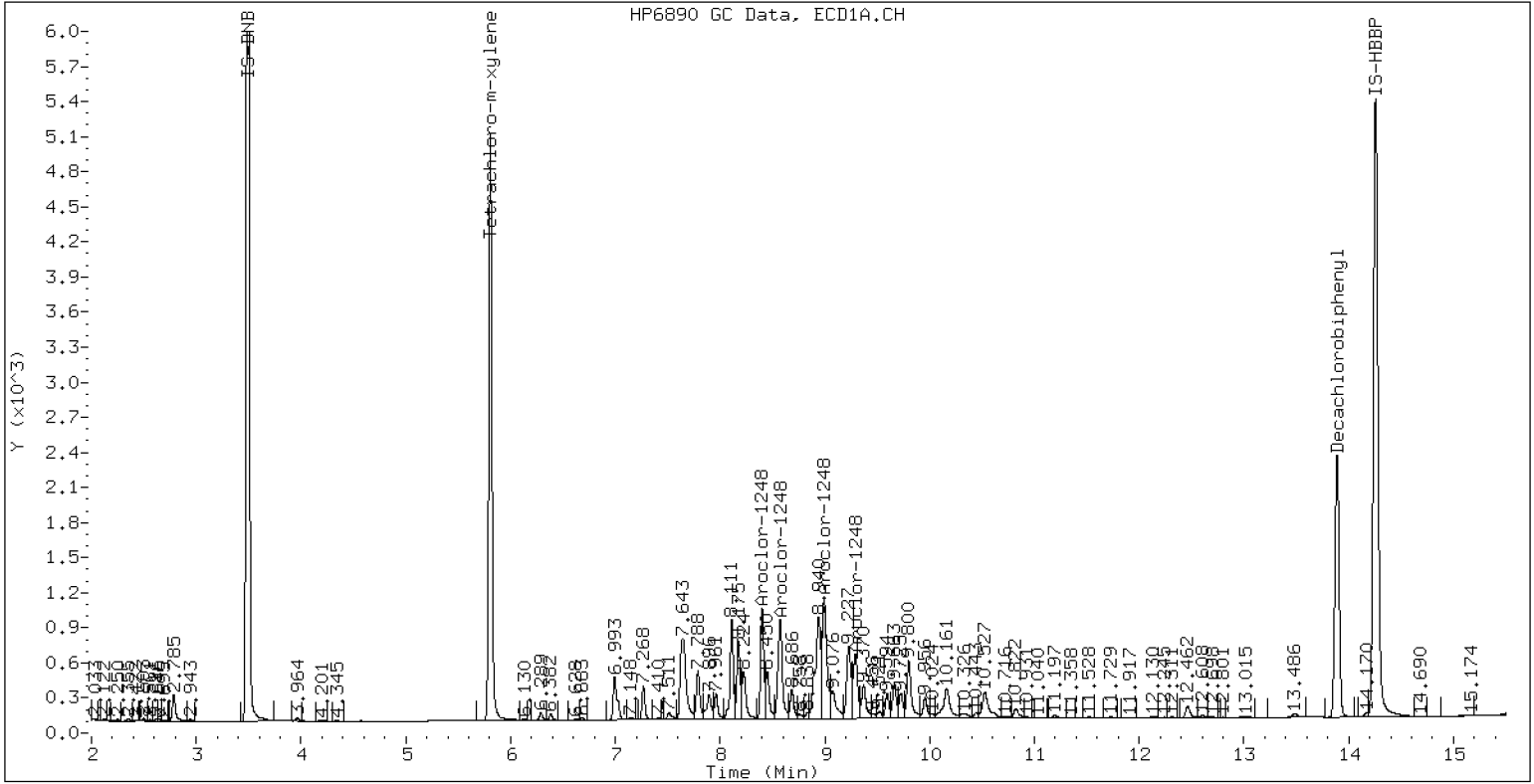
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 AR1248CCV7

08-FEB-2023 04:27, 2ul





CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: ECD7

Calibration: GA00061

Lab File ID: 02072347ECD7.D

Calibration Date: 01/24/2023

Sequence: SLB0109

Injection Date: 02/08/23

Lab Sample ID: SLB0109-CCV8

Injection Time: 04:48

Sequence Name: AR1660CCV8

| COMPOUND | TYPE | CONC. (ug/L) | | RESPONSE FACTOR (RRF) | | | % DRIFT/DIFF | |
|----------------------------|------|--------------|------|-----------------------|-----------|-----|--------------|-------|
| | | STD | CCV | ICAL | CCV | MIN | CCV | LIMIT |
| Aroclor 1016 | A | 250.00 | 251 | 0.0506755 | 0.0509570 | | 0.4 | +/-20 |
| Aroclor-1016 (1) | A | 250.00 | 259 | 0.0297277 | 0.0308173 | | 3.6 | |
| Aroclor-1016 (2) | A | 250.00 | 256 | 0.0985017 | 0.1009138 | | 2.4 | |
| Aroclor-1016 (3) | A | 250.00 | 234 | 0.0453193 | 0.0423332 | | -6.4 | |
| Aroclor-1016 (4) | A | 250.00 | 255 | 0.0291533 | 0.0297637 | | 2.0 | |
| Aroclor 1016 [2C] | A | 250.00 | 260 | 0.0519244 | 0.0539296 | | 4.0 | +/-20 |
| Aroclor-1016 (1) [2C] | A | 250.00 | 262 | 0.0433907 | 0.0455764 | | 4.8 | |
| Aroclor-1016 (2) [2C] | A | 250.00 | 257 | 0.0950862 | 0.0978725 | | 2.8 | |
| Aroclor-1016 (3) [2C] | A | 250.00 | 267 | 0.0388014 | 0.0413968 | | 6.8 | |
| Aroclor-1016 (4) [2C] | A | 250.00 | 254 | 0.0304194 | 0.0308726 | | 1.6 | |
| Aroclor 1260 | A | 250.00 | 239 | 0.0605224 | 0.0580990 | | -4.3 | +/-20 |
| Aroclor-1260 (1) | A | 250.00 | 258 | 0.0448870 | 0.0463729 | | 3.2 | |
| Aroclor-1260 (2) | A | 250.00 | 252 | 0.0461412 | 0.0465123 | | 0.8 | |
| Aroclor-1260 (3) | A | 250.00 | 238 | 0.1214672 | 0.1157954 | | -4.8 | |
| Aroclor-1260 (4) | A | 250.00 | 232 | 0.0627593 | 0.0582183 | | -7.2 | |
| Aroclor-1260 (5) | A | 250.00 | 216 | 0.0273573 | 0.0235960 | | -13.6 | |
| Aroclor 1260 [2C] | A | 250.00 | 260 | 0.0836545 | 0.0859186 | | 3.8 | +/-20 |
| Aroclor-1260 (1) [2C] | A | 250.00 | 264 | 0.0577136 | 0.0608514 | | 5.6 | |
| Aroclor-1260 (2) [2C] | A | 250.00 | 254 | 0.1460113 | 0.1486102 | | 1.6 | |
| Aroclor-1260 (3) [2C] | A | 250.00 | 269 | 0.0363944 | 0.0392229 | | 7.6 | |
| Aroclor-1260 (4) [2C] | A | 250.00 | 251 | 0.0944986 | 0.0949900 | | 0.4 | |
| Decachlorobiphenyl | A | 40.000 | 38.2 | 0.8555994 | 0.8168347 | | -4.5 | +/-20 |
| Tetrachlorometaxylene | A | 40.000 | 42.7 | 1.1307870 | 1.2070570 | | 6.8 | +/-20 |
| Decachlorobiphenyl [2C] | A | 40.000 | 39.4 | 1.2696430 | 1.2510650 | | -1.5 | +/-20 |
| Tetrachlorometaxylene [2C] | A | 40.000 | 42.8 | 1.0814980 | 1.1587780 | | 7.0 | +/-20 |

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230207.b/02072347ECD7.D
 Data file 2: /230207.b/230207.b/02072347ECD7.D
 Method: \\target\share\chem4\ecd7.i\230207.b\PCB.m
 Compound Sublist: AR1660.sub
 Instrument, Inj. Vol.: ecd7.i, 2ul
 Quant Method: Internal Std

ARI ID: AR1660CCV8
 Client ID:
 Injection Date: 08-FEB-2023 04:48
 Report Date: 02/08/2023 11:49
 Matrix: NONE
 Dilution Factor: 1.0

SURROGATES

| RT | ZB5 Col Shift | Response | RT | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag |
|--------|---------------|----------|--------|----------------|----------|------------|-------------|-----|----------------------|
| 5.808 | 0.000 | 195227 | 5.686 | 0.001 | 166568 | 42.7 | 42.9 | 0.4 | Tetrachloro-m-xylene |
| 13.888 | 0.000 | 149027 | 14.117 | -0.000 | 184330 | 38.2 | 39.4 | 3.2 | Decachlorobiphenyl |

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | |
|--------------------|----------------|-------------|-------|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 503318 | 323476 | -35.7 |
| Hexabromobiphenyl | 647433 | 364889 | -43.6 |

| Standard Cpnd | Column 2 | | |
|--------------------|----------------|-------------|-------|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 336911 | 287489 | -14.7 |
| Hexabromobiphenyl | 382032 | 294677 | -22.9 |

* Standard Areas taken from Initial Cal Level 3
 Initial Calibration Date: 24-JAN-2023
 <- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | ZB35 Col | | | | | |
|--------------------------|-------|--------|--------|--------|----------|--------------------------|--------|-------|--------|---------------|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount |
| Aroclor-1016 | 1 | 7.269 | -0.001 | 31152 | 259.2 | 1 | 7.253 | 0.000 | 40946 | 262.6 |
| Aroclor-1016 | 2 | 7.649 | -0.001 | 102010 | 256.1 | 2 | 7.849 | 0.001 | 87929 | 257.3 |
| Aroclor-1016 | 3 | 7.787 | -0.001 | 42793 | 233.5 | 3 | 8.049 | 0.001 | 37191 | 266.7 |
| Aroclor-1016 | 4 | 8.402 | -0.002 | 30087 | 255.2 | 4 | 8.304 | 0.001 | 27736 | 253.7 |
| Total CollAve (4 peaks): | | | | 251.0 | | Total Col2Ave (4 peaks): | | | | 260.1 RPD = 4 |
| Corrected Ave (3 peaks): | | | | 248.3 | | Corrected Ave (3 peaks): | | | | 257.9 RPD = 4 |
| CalAmt %D: | | | | 0.4 | | CalAmt %D: | | | | 4.0 |
| Aroclor-1260 | 1 | 11.040 | -0.004 | 52878 | 258.3 | 1 | 11.650 | 0.001 | 56036 | 263.6 |
| Aroclor-1260 | 2 | 11.356 | -0.004 | 53037 | 252.0 | 2 | 11.913 | 0.001 | 136850 | 254.4 |
| Aroclor-1260 | 3 | 11.728 | -0.006 | 132039 | 238.3 | 3 | 12.432 | 0.000 | 36119 | 269.4 |
| Aroclor-1260 | 4 | 12.132 | -0.007 | 66385 | 231.9 | 4 | 12.497 | 0.001 | 87473 | 251.3 |
| Aroclor-1260 | 5 | 12.240 | -0.004 | 26906 | 215.6 | NS | --- | | | ---- |
| Total CollAve (5 peaks): | | | | 239.2 | | Total Col2Ave (4 peaks): | | | | 259.7 RPD = 8 |
| Corrected Ave (4 peaks): | | | | 234.5 | | Corrected Ave (3 peaks): | | | | 256.4 RPD = 9 |
| CalAmt %D: | | | | -4.3 | | CalAmt %D: | | | | 3.9 |

Total PCB Area Coll (5.908 - 13.788) = 1606300 Coll Total PCB = 0.4 ppm*

Total PCB Area Col2 (5.785 - 14.017) = 1413734 Col2 Total PCB = 0.5 ppm*

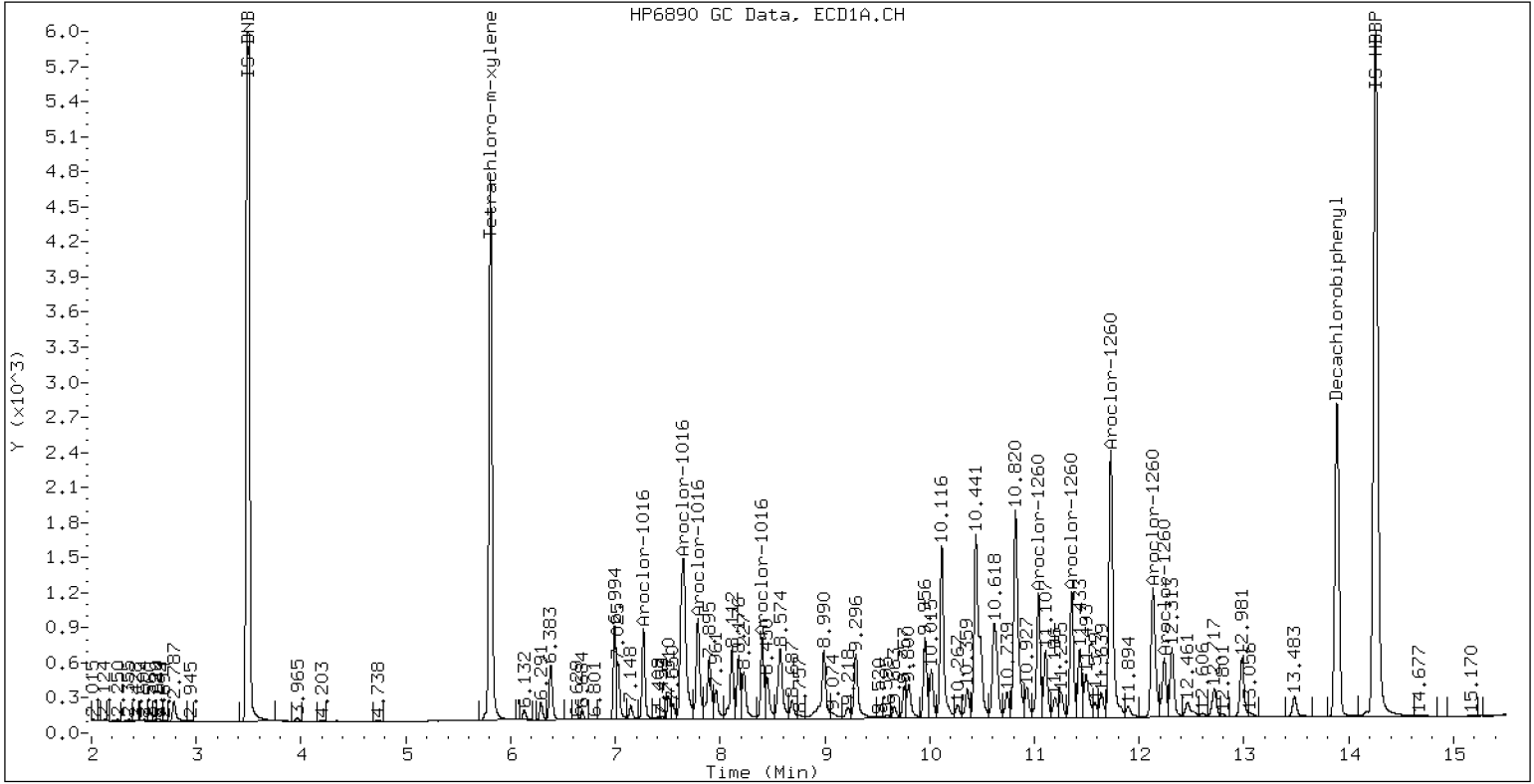
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCV8

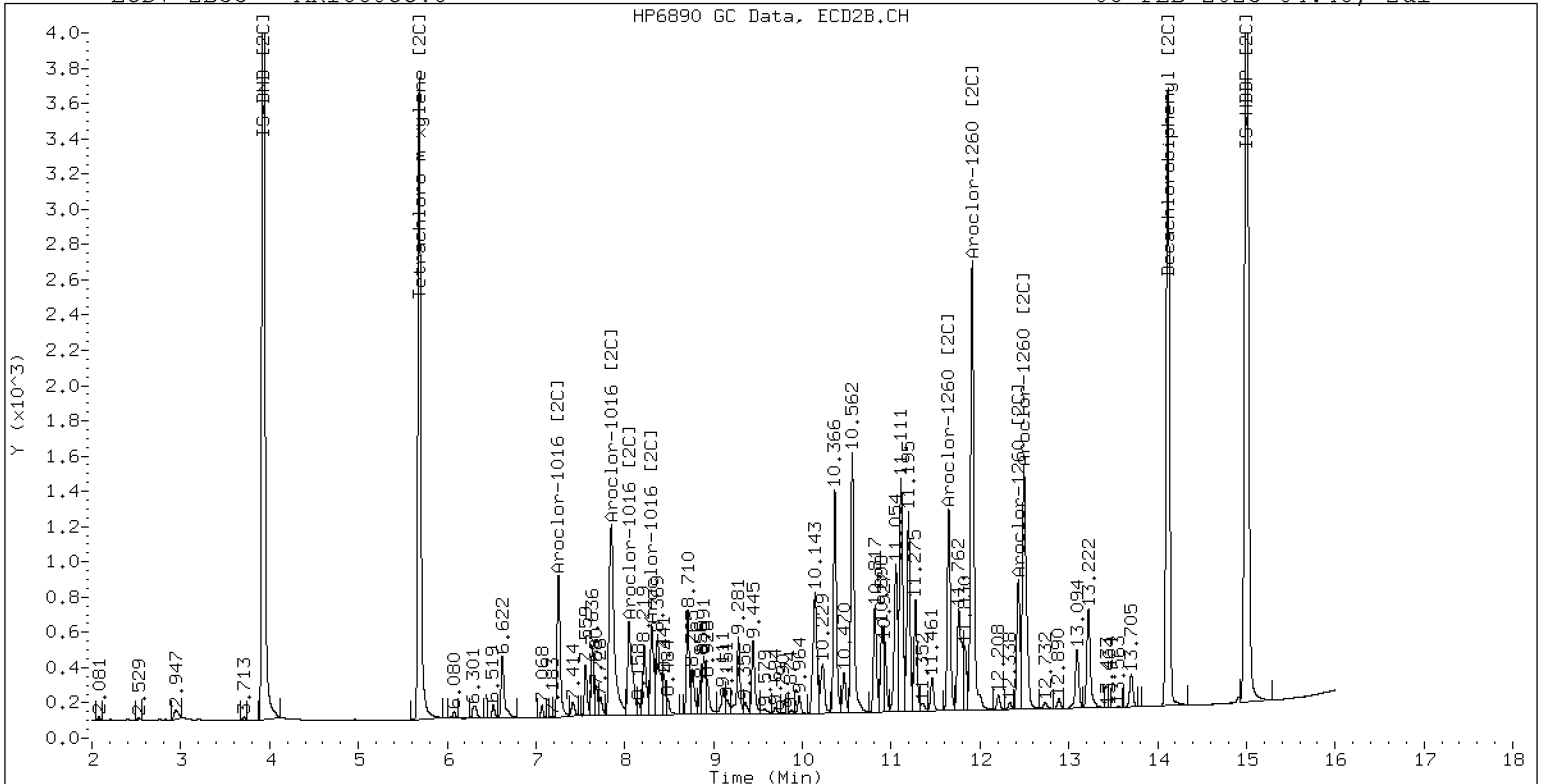
08-FEB-2023 04:48, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660CCV8

08-FEB-2023 04:48, 2ul



ZB-35 Manual Integration: NO



CONTINUING CALIBRATION CHECK
EPA 8082A

| | | | |
|----------------|----------------------------------|-------------------|------------------------|
| Laboratory: | <u>Analytical Resources, LLC</u> | SDG: | <u>23A0180</u> |
| Client: | <u>Anchor QEA, LLC</u> | Project: | <u>AOC5 MR Phase 1</u> |
| Instrument ID: | <u>ECD7</u> | Calibration: | <u>GA00061</u> |
| Lab File ID: | <u>02072357ECD7.D</u> | Calibration Date: | <u>01/24/2023</u> |
| Sequence: | <u>SLB0109</u> | Injection Date: | <u>02/08/23</u> |
| Lab Sample ID: | <u>SLB0109-CCV9</u> | Injection Time: | <u>08:18</u> |
| Sequence Name: | <u>AR1242CCV9</u> | | |

| COMPOUND | TYPE | CONC. (ug/L) | | RESPONSE FACTOR (RRF) | | | % DRIFT/DIFF | |
|----------------------------|------|--------------|------|-----------------------|-----------|-----|--------------|---------|
| | | STD | CCV | ICAL | CCV | MIN | CCV | LIMIT |
| Aroclor 1242 | A | 250.00 | 208 | 0.0411165 | 0.0346757 | | -16.9 | +/-20 |
| Aroclor-1242 (1) | A | 250.00 | 230 | | 0.0225720 | | | |
| Aroclor-1242 (2) | A | 250.00 | 222 | | 0.0710807 | | | |
| Aroclor-1242 (3) | A | 250.00 | 194 | | 0.0184485 | | | |
| Aroclor-1242 (4) | A | 250.00 | 185 | | 0.0266017 | | | |
| Aroclor 1242 [2C] | A | 250.00 | 213 | 0.0423236 | 0.0368640 | | -14.8 | +/-20 |
| Aroclor-1242 (1) [2C] | A | 250.00 | 249 | | 0.0347996 | | | |
| Aroclor-1242 (2) [2C] | A | 250.00 | 227 | | 0.0705196 | | | |
| Aroclor-1242 (3) [2C] | A | 250.00 | 200 | | 0.0194305 | | | |
| Aroclor-1242 (4) [2C] | A | 250.00 | 176 | | 0.0227062 | | | |
| Decachlorobiphenyl | A | 40.000 | 37.3 | 0.8555994 | 0.7987917 | | -6.8 | +/-20 |
| Tetrachlorometaxylene | A | 40.000 | 49.1 | 1.1307870 | 1.3871540 | | 22.8 | +/-20 * |
| Decachlorobiphenyl [2C] | A | 40.000 | 37.9 | 1.2696430 | 1.2041490 | | -5.3 | +/-20 |
| Tetrachlorometaxylene [2C] | A | 40.000 | 49.5 | 1.0814980 | 1.3397050 | | 23.8 | +/-20 * |

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230207.b/02072357ECD7.D
Data file 2: /230207.b/230207.b/02072357ECD7.D
Method: \\target\share\chem4\ecd7.i\230207.b\PCB.m
Compound Sublist: AR1242.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1242CCV9
Client ID:
Injection Date: 08-FEB-2023 08:18
Report Date: 02/08/2023 11:49
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

| RT | ZB5 Col Shift | Response | RT | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag |
|--------|---------------|----------|--------|----------------|----------|------------|-------------|-----|----------------------|
| 5.808 | 0.000 | 243990 | 5.685 | 0.000 | 214965 | 49.1 | 49.5 | 1.0 | Tetrachloro-m-xylene |
| 13.888 | -0.001 | 111455 | 14.117 | 0.000 | 137291 | 37.3 | 37.9 | 1.6 | Decachlorobiphenyl |

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | |
|--------------------|----------------|-------------|----------|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 503318 | 351785 | -30.1 |
| Hexabromobiphenyl | 647433 | 279059 | -56.9 <- |

| Standard Cpnd | Column 2 | | |
|--------------------|----------------|-------------|-------|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 336911 | 320914 | -4.7 |
| Hexabromobiphenyl | 382032 | 228030 | -40.3 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-JAN-2023
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | ZB35 Col | | | | | | |
|--------------------------|-------|-------|--------|-------|----------|--------------------------|-------|-------|-------|--------|---------|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount | |
| Aroclor-1242 | 1 | 7.269 | -0.001 | 24814 | 230.4 | 1 | 7.253 | 0.000 | 34899 | 248.7 | |
| Aroclor-1242 | 2 | 7.649 | -0.006 | 78141 | 221.7 | 2 | 7.850 | 0.000 | 70721 | 226.9 | |
| Aroclor-1242 | 3 | 8.402 | -0.005 | 20281 | 193.6 | 3 | 9.151 | 0.000 | 19486 | 199.6 | |
| Aroclor-1242 | 4 | 8.574 | -0.007 | 29244 | 184.8 | 4 | 9.575 | 0.000 | 22771 | 176.0 | |
| Total CollAve (4 peaks): | | | | 207.6 | | Total Col2Ave (4 peaks): | | | | 212.8 | RPD = 2 |
| Corrected Ave (3 peaks): | | | | 200.0 | | Corrected Ave (3 peaks): | | | | 200.8 | RPD = 0 |
| CalAmt %D: | | | | -17.0 | | CalAmt %D: | | | | -14.9 | |

Total PCB Area Col1 (5.908 - 13.788) = 576432 Col1 Total PCB = 0.1 ppm*

Total PCB Area Col2 (5.785 - 14.017) = 462737 Col2 Total PCB = 0.1 ppm*

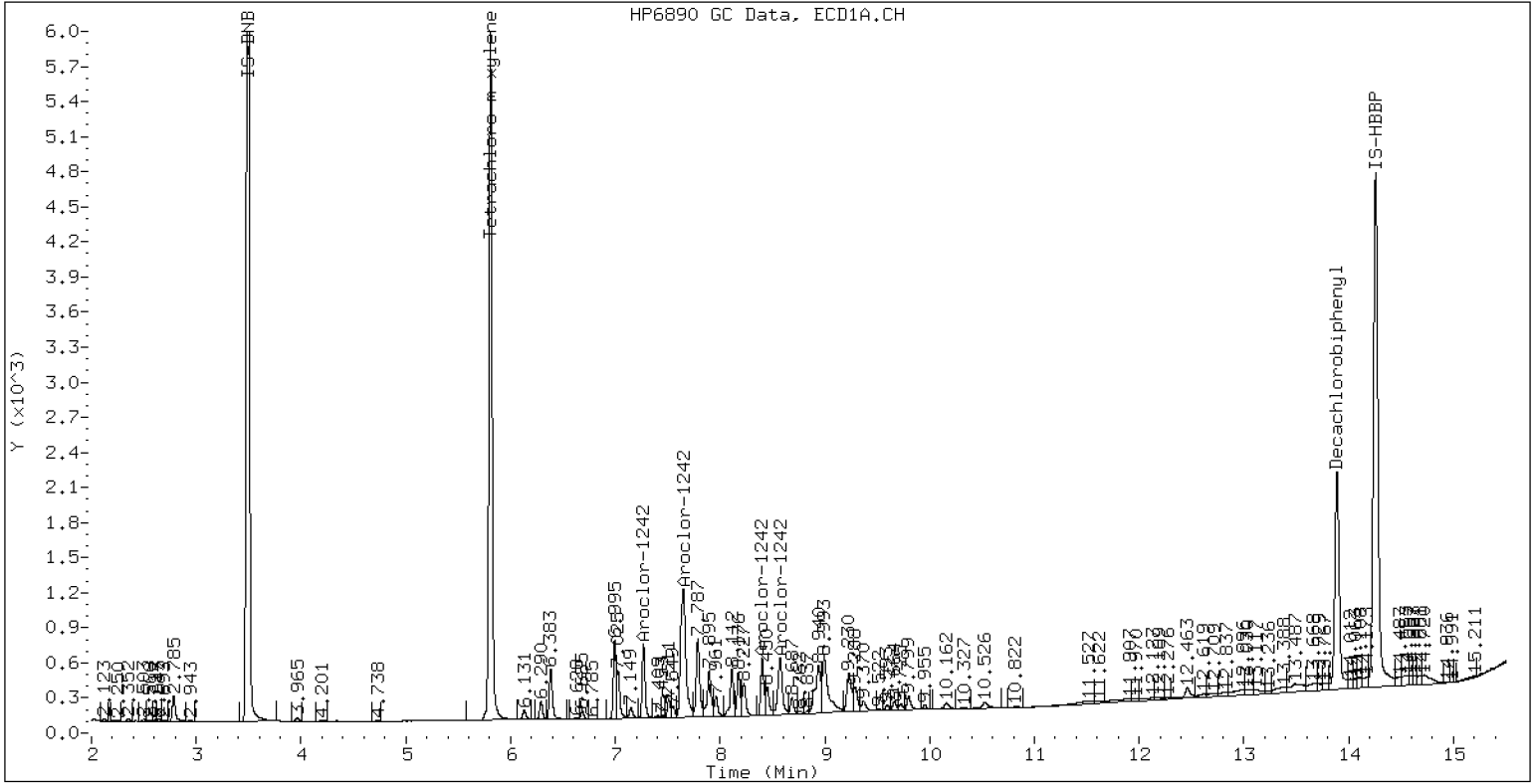
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 AR1242CCV9

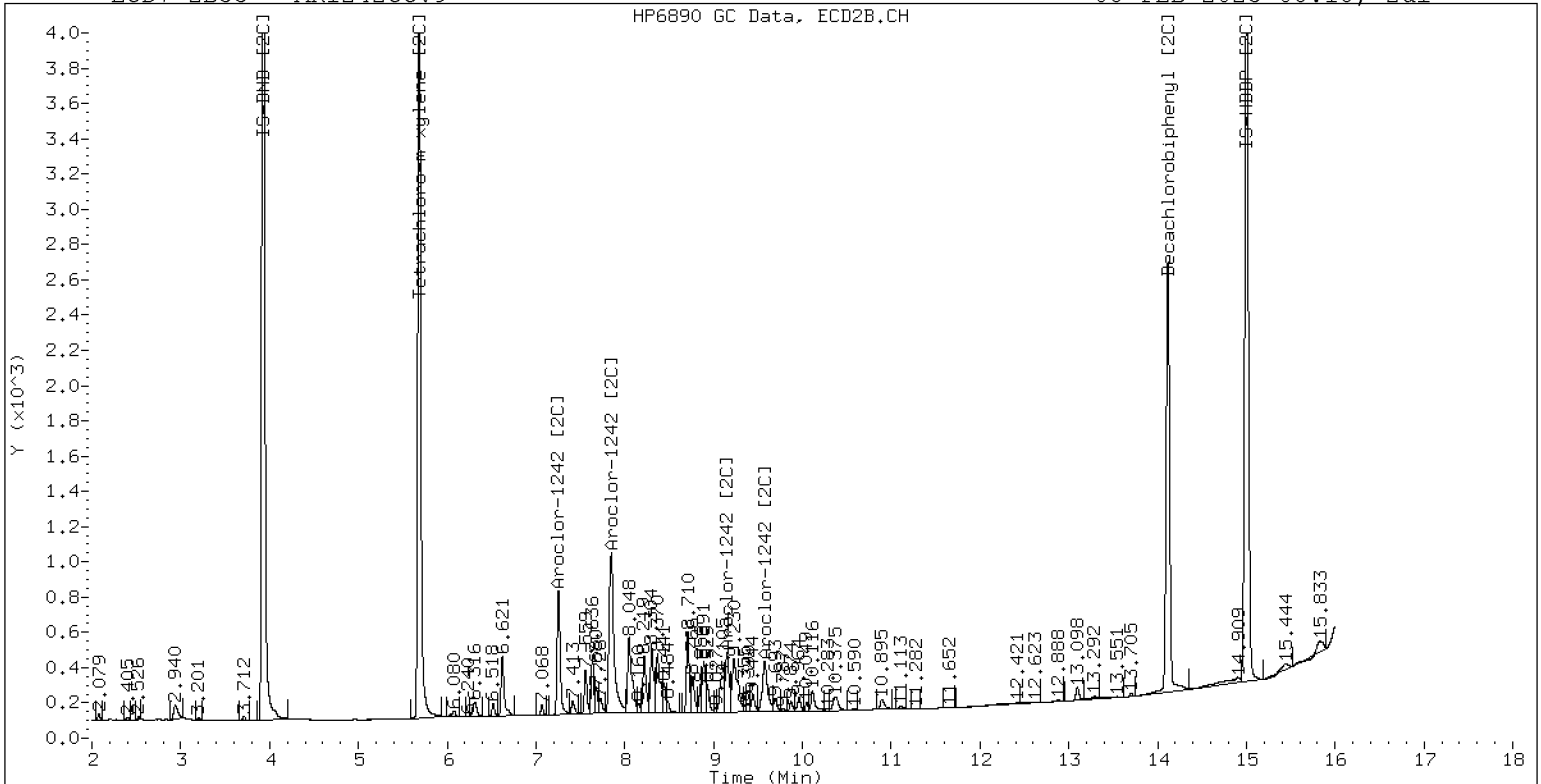
08-FEB-2023 08:18, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1242CCV9

08-FEB-2023 08:18, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230207.b/02072358ECD7.D
Data file 2: /230207.b/230207.b/02072358ECD7.D
Method: \\target\share\chem4\ecd7.i\230207.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660CCVA
Client ID:
Injection Date: 08-FEB-2023 08:39
Report Date: 02/08/2023 11:49
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

| RT | ZB5 Col Shift | Response | RT | ZB35 Col Shift | Response | ZB5 on col | ZB35 on col | RPD | Compound/Flag |
|--------|---------------|----------|--------|----------------|----------|------------|-------------|------|----------------------|
| 5.808 | 0.000 | 197110 | 5.685 | 0.000 | 168893 | 42.6 | 42.1 | 1.3 | Tetrachloro-m-xylene |
| 13.889 | 0.000 | 149563 | 14.117 | 0.000 | 141826 | 49.0 | 37.3 | 27.0 | Decachlorobiphenyl |

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

| Standard Cpnd | Column 1 | | |
|--------------------|----------------|-------------|----------|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 503318 | 327040 | -35.0 |
| Hexabromobiphenyl | 647433 | 285638 | -55.9 <- |

| Standard Cpnd | Column 2 | | |
|--------------------|----------------|-------------|-------|
| | Standard Area* | Sample Area | %D |
| Bromo-Nitrobenzene | 336911 | 296709 | -11.9 |
| Hexabromobiphenyl | 382032 | 239536 | -37.3 |

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-JAN-2023
<- Indicates standard response outside Limits (-50 to +100%)

| ZB5 Col | | | | | ZB35 Col | | | | | | |
|--------------------------|-------|-------|--------|-------|----------|--------------------------|-------|-------|-------|--------|---------|
| Aroclor | Peak# | RT | Shift | Area | Amount | Peak# | RT | Shift | Area | Amount | |
| Aroclor-1016 | 1 | 7.269 | -0.001 | 30588 | 251.7 | 1 | 7.253 | 0.000 | 41630 | 258.7 | |
| Aroclor-1016 | 2 | 7.649 | -0.001 | 99910 | 248.1 | 2 | 7.848 | 0.000 | 88975 | 252.3 | |
| Aroclor-1016 | 3 | 7.787 | -0.002 | 40857 | 220.5 | 3 | 8.048 | 0.000 | 37351 | 259.5 | |
| Aroclor-1016 | 4 | 8.402 | -0.002 | 26519 | 222.5 | 4 | 8.303 | 0.000 | 27536 | 244.1 | |
| Total CollAve (4 peaks): | | | | 235.7 | | Total Col2Ave (4 peaks): | | | | 253.6 | RPD = 7 |
| Corrected Ave (3 peaks): | | | | 230.4 | | Corrected Ave (3 peaks): | | | | 251.7 | RPD = 9 |

CalAmt %D: -5.7

CalAmt %D: 1.5

| | | | | | | | | | | | |
|--------------------------|---|--------|--------|--------|-------|--------------------------|--------|-------|--------|-------|---------|
| Aroclor-1260 | 1 | 11.039 | -0.004 | 43558 | 271.8 | 1 | 11.649 | 0.000 | 45005 | 260.4 | |
| Aroclor-1260 | 2 | 11.355 | -0.005 | 43832 | 266.1 | 2 | 11.912 | 0.000 | 108628 | 248.5 | |
| Aroclor-1260 | 3 | 11.728 | -0.007 | 104365 | 240.6 | 3 | 12.432 | 0.000 | 29868 | 274.1 | |
| Aroclor-1260 | 4 | 12.131 | -0.009 | 57464 | 256.4 | 4 | 12.496 | 0.000 | 69578 | 245.9 | |
| Aroclor-1260 | 5 | 12.239 | -0.004 | 23504 | 240.6 | NS | --- | | | ---- | |
| Total CollAve (5 peaks): | | | | 255.1 | | Total Col2Ave (4 peaks): | | | | 257.2 | RPD = 1 |
| Corrected Ave (4 peaks): | | | | 250.9 | | Corrected Ave (3 peaks): | | | | 251.6 | RPD = 0 |

CalAmt %D: 2.0

CalAmt %D: 2.9

Total PCB Area Coll (5.908 - 13.788) = 1539273 Coll Total PCB = 0.4 ppm*

Total PCB Area Col2 (5.785 - 14.017) = 1239065 Col2 Total PCB = 0.4 ppm*

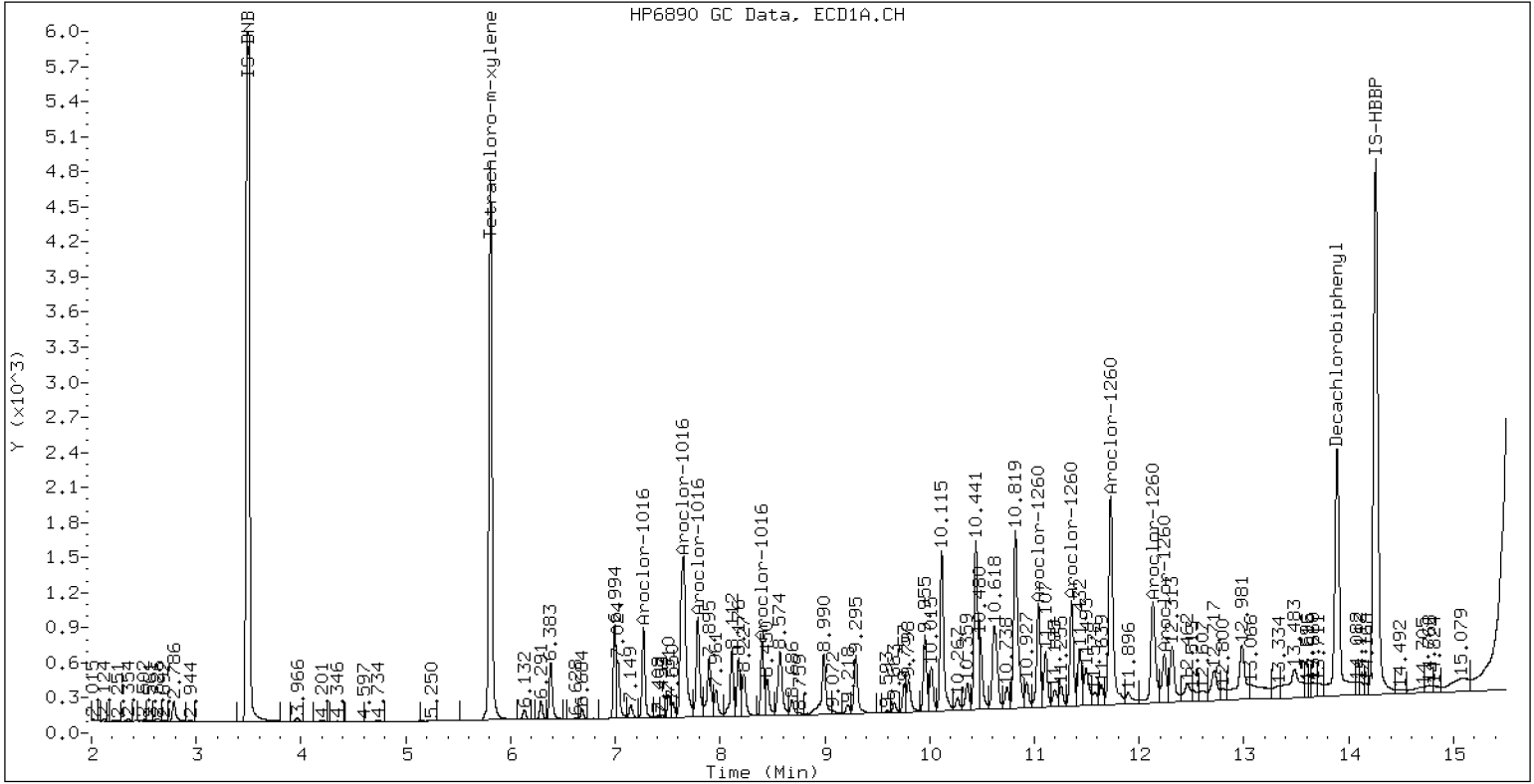
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCVA

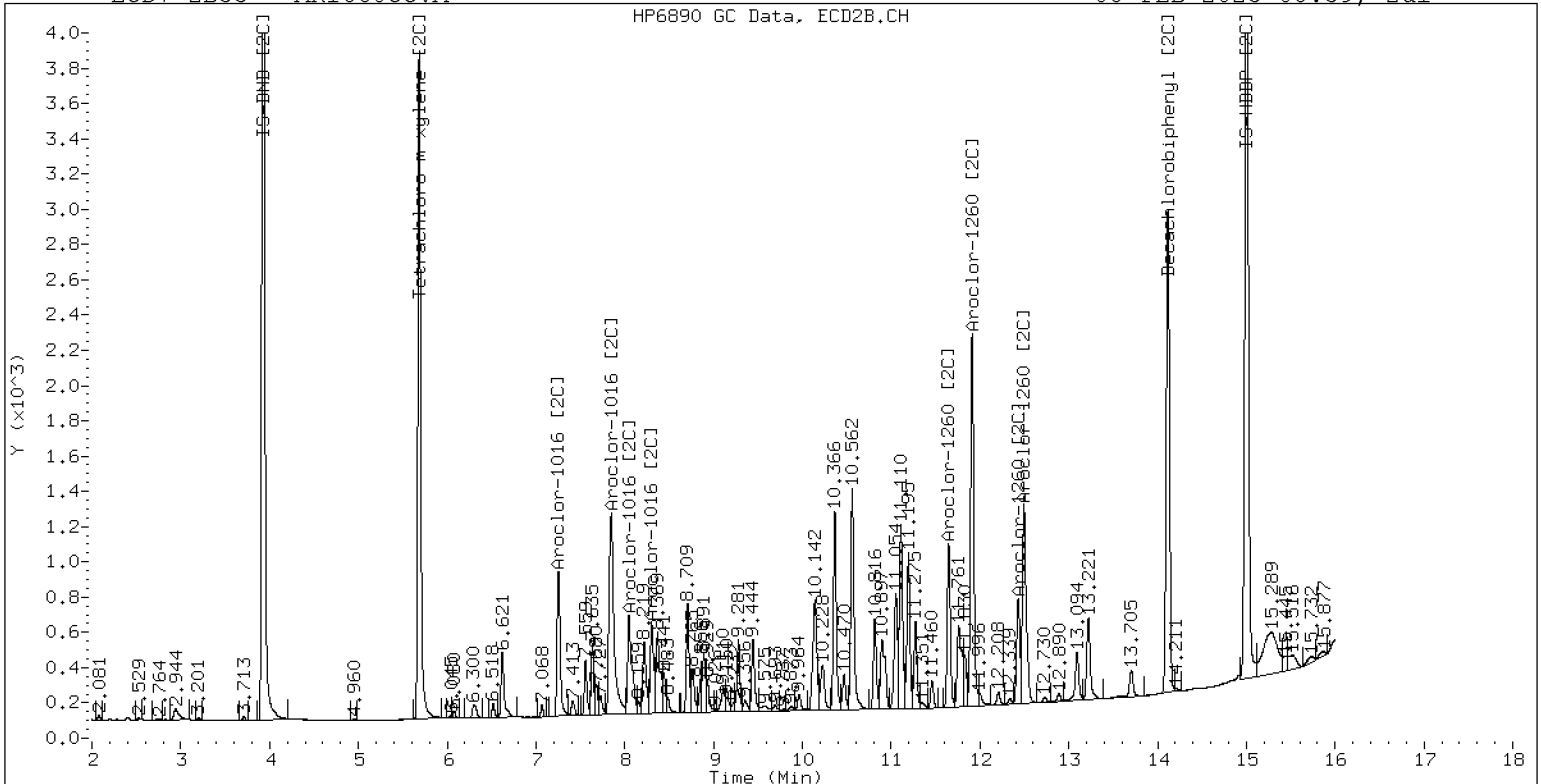
08-FEB-2023 08:39, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660CCVA

08-FEB-2023 08:39, 2ul



ZB-35 Manual Integration: NO



Dual Column
ANALYSIS BATCH (SEQUENCE) SUMMARY
EPA 8082A

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor OEA, LLC

Project: AOC5 MR Phase 1

Sequence: SLA0281

Instrument: ECD7

Calibration: GA00061

| Sample Name | Lab Sample ID | Column 1 File ID | Column 2 File ID | Matrix | Analysis Date/Time |
|---------------------|---------------|------------------|------------------|--------|--------------------|
| Cal Standard | SLA0281-CAL1 | 01242313ECD7.D | 01242313ECD7.D | NA | 01/24/23 16:00 |
| Cal Standard | SLA0281-CAL2 | 01242314ECD7.D | 01242314ECD7.D | NA | 01/24/23 16:21 |
| Cal Standard | SLA0281-CAL3 | 01242315ECD7.D | 01242315ECD7.D | NA | 01/24/23 16:42 |
| Cal Standard | SLA0281-CAL4 | 01242316ECD7.D | 01242316ECD7.D | NA | 01/24/23 17:03 |
| Cal Standard | SLA0281-CAL5 | 01242317ECD7.D | 01242317ECD7.D | NA | 01/24/23 17:24 |
| Cal Standard | SLA0281-CAL6 | 01242318ECD7.D | 01242318ECD7.D | NA | 01/24/23 17:45 |
| Cal Standard | SLA0281-CAL7 | 01242319ECD7.D | 01242319ECD7.D | NA | 01/24/23 18:06 |
| Cal Standard | SLA0281-CAL8 | 01242320ECD7.D | 01242320ECD7.D | NA | 01/24/23 18:27 |
| Cal Standard | SLA0281-CAL9 | 01242321ECD7.D | 01242321ECD7.D | NA | 01/24/23 18:48 |
| Cal Standard | SLA0281-CALA | 01242322ECD7.D | 01242322ECD7.D | NA | 01/24/23 19:09 |
| Cal Standard | SLA0281-CALB | 01242323ECD7.D | 01242323ECD7.D | NA | 01/24/23 19:30 |
| Secondary Cal Check | SLA0281-SCV1 | 01242324ECD7.D | 01242324ECD7.D | NA | 01/24/23 19:51 |
| Secondary Cal Check | SLA0281-SCV2 | 01242325ECD7.D | 01242325ECD7.D | NA | 01/24/23 20:12 |
| Secondary Cal Check | SLA0281-SCV3 | 01242326ECD7.D | 01242326ECD7.D | NA | 01/24/23 20:33 |
| Secondary Cal Check | SLA0281-SCV4 | 01242327ECD7.D | 01242327ECD7.D | NA | 01/24/23 20:54 |
| Secondary Cal Check | SLA0281-SCV5 | 01242328ECD7.D | 01242328ECD7.D | NA | 01/24/23 21:15 |
| Secondary Cal Check | SLA0281-SCV6 | 01242329ECD7.D | 01242329ECD7.D | NA | 01/24/23 21:36 |

Security Status Report

Date: 26-Jan-2023 15:41

| | | |
|----------------|-------------|-----------------------------|
| 01242330ECD7.D | Data Locked | richardl, 25-Jan-2023 12:44 |
| 01242331ECD7.D | Data Locked | richardl, 25-Jan-2023 12:44 |
| 01242332ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242333ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242334ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242335ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242336ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242337ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242338ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242339ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242340ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242341ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242342ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242343ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242344ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242345ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242346ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242347ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242348ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
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| 01242351ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242352ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242353ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242354ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242355ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242356ECD7.D | Data Locked | richardl, 26-Jan-2023 15:41 |
| 01242357ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242358ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242359ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242360ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242361ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242362ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242363ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242364ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242365ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
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| 01242373ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |

| | | |
|----------------|-------------|-----------------------------|
| 01242374ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242375ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242376ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242377ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242378ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242379ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242380ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242381ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242382ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242383ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242384ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242385ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242386ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242387ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242388ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242389ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242390ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |
| 01242391ECD7.D | Data Locked | richardl, 26-Jan-2023 13:19 |



Dual Column
ANALYSIS BATCH (SEQUENCE) SUMMARY
EPA 8082A

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Sequence: SLB0084

Instrument: ECD7

Calibration: GA00061

| Sample Name | Lab Sample ID | Column 1 File ID | Column 2 File ID | Matrix | Analysis Date/Time |
|-------------------|---------------|------------------|------------------|--------|--------------------|
| Initial Cal Check | SLB0084-ICV1 | 02042302ECD7.D | 02042302ECD7.D | NA | 02/04/23 16:16 |
| Initial Cal Check | SLB0084-ICV2 | 02042303ECD7.D | 02042303ECD7.D | NA | 02/04/23 16:37 |
| Calibration Check | SLB0084-CCV1 | 02042313ECD7.D | 02042313ECD7.D | NA | 02/04/23 20:08 |
| Calibration Check | SLB0084-CCV2 | 02042314ECD7.D | 02042314ECD7.D | NA | 02/04/23 20:29 |
| Calibration Check | SLB0084-CCV3 | 02042329ECD7.D | 02042329ECD7.D | NA | 02/05/23 01:45 |
| Calibration Check | SLB0084-CCV4 | 02042330ECD7.D | 02042330ECD7.D | NA | 02/05/23 02:06 |
| LDW23-SC1151 | 23A0180-04 | 02042342ECD7.D | 02042342ECD7.D | Solid | 02/05/23 06:19 |
| LDW23-SC1145 | 23A0180-05 | 02042343ECD7.D | 02042343ECD7.D | Solid | 02/05/23 06:41 |
| Calibration Check | SLB0084-CCV5 | 02042345ECD7.D | 02042345ECD7.D | NA | 02/05/23 07:23 |
| Calibration Check | SLB0084-CCV6 | 02042346ECD7.D | 02042346ECD7.D | NA | 02/05/23 07:44 |
| LDW23-SC1117 | 23A0180-09 | 02042349ECD7.D | 02042349ECD7.D | Solid | 02/05/23 08:47 |
| LDW23-SC1100 | 23A0180-13 | 02042353ECD7.D | 02042353ECD7.D | Solid | 02/05/23 10:11 |
| Calibration Check | SLB0084-CCV7 | 02042358ECD7.D | 02042358ECD7.D | NA | 02/05/23 11:57 |
| Calibration Check | SLB0084-CCV8 | 02042359ECD7.D | 02042359ECD7.D | NA | 02/05/23 12:18 |



ANALYSIS SEQUENCE

SLB0084

Instrument: ECD7
Calibration ID: GA00061

Printed: 2/7/2023 9:00:13AM

| Lab Number | Analysis | Container | Order | Position | STD ID | ISTD ID | Client | Comments |
|--------------|-------------------|-----------|-------|----------|---------|---------|-----------------|----------|
| SLB0084-ICV1 | QC | | 1 | | L000862 | L000844 | | |
| SLB0084-ICV2 | QC | | 2 | | L000856 | L000844 | | |
| 23A0157-02 | 8082A PCB Solid 4 | A 03 | 3 | | | L000844 | Anchor QEA, LLC | |
| 23A0157-04 | 8082A PCB Solid 4 | A 03 | 4 | | | L000844 | Anchor QEA, LLC | |
| 23A0157-08 | 8082A PCB Solid 4 | A 03 | 5 | | | L000844 | Anchor QEA, LLC | |
| 23A0157-09 | 8082A PCB Solid 4 | A 03 | 6 | | | L000844 | Anchor QEA, LLC | |
| BLA0475-MS1 | QC | | 7 | | | L000844 | | |
| SLB0084-CCV1 | QC | | 8 | | L000861 | L000844 | | |
| SLB0084-CCV2 | QC | | 9 | | L000856 | L000844 | | |
| BLA0558-BLK1 | QC | | 10 | | | L000844 | | |
| BLA0558-BS1 | QC | | 11 | | | L000844 | | |
| BLA0558-BSD1 | QC | | 12 | | | L000844 | | |
| BLA0558-SRM1 | QC | | 13 | | | L000844 | | |
| 23A0179-01 | 8082A PCB Solid 4 | A 03 | 14 | | | L000844 | Anchor QEA, LLC | |
| 23A0179-02 | 8082A PCB Solid 4 | A 03 | 15 | | | L000844 | Anchor QEA, LLC | |
| 23A0179-03 | 8082A PCB Solid 4 | A 03 | 16 | | | L000844 | Anchor QEA, LLC | |
| 23A0179-04 | 8082A PCB Solid 4 | A 03 | 17 | | | L000844 | Anchor QEA, LLC | |
| 23A0179-05 | 8082A PCB Solid 4 | A 03 | 18 | | | L000844 | Anchor QEA, LLC | |
| 23A0179-06 | 8082A PCB Solid 4 | A 03 | 19 | | | L000844 | Anchor QEA, LLC | |
| 23A0179-07 | 8082A PCB Solid 4 | A 03 | 20 | | | L000844 | Anchor QEA, LLC | |
| 23A0179-08 | 8082A PCB Solid 4 | A 03 | 21 | | | L000844 | Anchor QEA, LLC | |

Samples Loaded By _____ Date _____

Data Processed By _____ Date _____

GC LOG SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230204.b

| | Inject | Date/Time | Filename | DF | LabID | ClientID |
|----|-------------|-----------|----------------|----|--------------|----------|
| 1 | 04-FEB-2023 | 15:55 | 02042301ECD7.D | 1 | DDTS | |
| 2 | 04-FEB-2023 | 16:16 | 02042302ECD7.D | 1 | AR1254ICV1 | |
| 3 | 04-FEB-2023 | 16:37 | 02042303ECD7.D | 1 | AR1660ICV2 | |
| 4 | 04-FEB-2023 | 16:58 | 02042304ECD7.D | 1 | 23A0157-02 | |
| 5 | 04-FEB-2023 | 17:19 | 02042305ECD7.D | 1 | 23A0157-04 | |
| 6 | 04-FEB-2023 | 17:40 | 02042306ECD7.D | 1 | 23A0157-06 | |
| 7 | 04-FEB-2023 | 18:01 | 02042307ECD7.D | 1 | 23A0157-07 | |
| 8 | 04-FEB-2023 | 18:22 | 02042308ECD7.D | 1 | 23A0157-08 | |
| 9 | 04-FEB-2023 | 18:43 | 02042309ECD7.D | 1 | 23A0157-09 | |
| 10 | 04-FEB-2023 | 19:04 | 02042310ECD7.D | 1 | 23A0157-10 | |
| 11 | 04-FEB-2023 | 19:26 | 02042311ECD7.D | 1 | BLA0475-MS1 | |
| 12 | 04-FEB-2023 | 19:47 | 02042312ECD7.D | 1 | 23A0157-13 | |
| 13 | 04-FEB-2023 | 20:08 | 02042313ECD7.D | 1 | AR1248CCV1 | |
| 14 | 04-FEB-2023 | 20:29 | 02042314ECD7.D | 1 | AR1660CCV2 | |
| 15 | 04-FEB-2023 | 20:50 | 02042315ECD7.D | 1 | BLA0558-BLK1 | |
| 16 | 04-FEB-2023 | 21:11 | 02042316ECD7.D | 1 | BLA0558-BS1 | |
| 17 | 04-FEB-2023 | 21:32 | 02042317ECD7.D | 1 | BLA0558-BSD1 | |
| 18 | 04-FEB-2023 | 21:53 | 02042318ECD7.D | 1 | BLA0558-SRM1 | |
| 19 | 04-FEB-2023 | 22:14 | 02042319ECD7.D | 1 | 23A0179-01 | |
| 20 | 04-FEB-2023 | 22:35 | 02042320ECD7.D | 1 | 23A0179-02 | |
| 21 | 04-FEB-2023 | 22:57 | 02042321ECD7.D | 1 | 23A0179-03 | |
| 22 | 04-FEB-2023 | 23:18 | 02042322ECD7.D | 1 | 23A0179-04 | |
| 23 | 04-FEB-2023 | 23:39 | 02042323ECD7.D | 1 | 23A0179-05 | |
| 24 | 05-FEB-2023 | 00:00 | 02042324ECD7.D | 1 | 23A0179-06 | |
| 25 | 05-FEB-2023 | 00:21 | 02042325ECD7.D | 1 | 23A0179-07 | |
| 26 | 05-FEB-2023 | 00:42 | 02042326ECD7.D | 1 | 23A0179-08 | |
| 27 | 05-FEB-2023 | 01:03 | 02042327ECD7.D | 1 | BLA0558-MS1 | |
| 28 | 05-FEB-2023 | 01:24 | 02042328ECD7.D | 1 | BLA0558-MSD1 | |
| 29 | 05-FEB-2023 | 01:45 | 02042329ECD7.D | 1 | AR1242CCV3 | |
| 30 | 05-FEB-2023 | 02:06 | 02042330ECD7.D | 1 | AR1660CCV4 | |
| 31 | 05-FEB-2023 | 02:28 | 02042331ECD7.D | 1 | 23A0179-09 | |
| 32 | 05-FEB-2023 | 02:49 | 02042332ECD7.D | 1 | 23A0179-10 | |
| 33 | 05-FEB-2023 | 03:10 | 02042333ECD7.D | 1 | 23A0179-11 | |
| 34 | 05-FEB-2023 | 03:31 | 02042334ECD7.D | 1 | 23A0179-12 | |
| 35 | 05-FEB-2023 | 03:52 | 02042335ECD7.D | 1 | BLA0559-BLK1 | |
| 36 | 05-FEB-2023 | 04:13 | 02042336ECD7.D | 1 | BLA0559-BS1 | |
| 37 | 05-FEB-2023 | 04:34 | 02042337ECD7.D | 1 | BLA0559-BSD1 | |
| 38 | 05-FEB-2023 | 04:55 | 02042338ECD7.D | 1 | BLA0559-SRM1 | |
| 39 | 05-FEB-2023 | 05:16 | 02042339ECD7.D | 1 | 23A0180-01 | |
| 40 | 05-FEB-2023 | 05:37 | 02042340ECD7.D | 1 | 23A0180-02 | |
| 41 | 05-FEB-2023 | 05:58 | 02042341ECD7.D | 1 | 23A0180-03 | |
| 42 | 05-FEB-2023 | 06:19 | 02042342ECD7.D | 1 | 23A0180-04 | |
| 43 | 05-FEB-2023 | 06:41 | 02042343ECD7.D | 1 | 23A0180-05 | |
| 44 | 05-FEB-2023 | 07:02 | 02042344ECD7.D | 1 | 23A0180-06 | |
| 45 | 05-FEB-2023 | 07:23 | 02042345ECD7.D | 1 | AR1254CCV5 | |
| 46 | 05-FEB-2023 | 07:44 | 02042346ECD7.D | 1 | AR1660CCV6 | |
| 47 | 05-FEB-2023 | 08:05 | 02042347ECD7.D | 1 | 23A0180-07 | |
| 48 | 05-FEB-2023 | 08:26 | 02042348ECD7.D | 1 | 23A0180-08 | |
| 49 | 05-FEB-2023 | 08:47 | 02042349ECD7.D | 1 | 23A0180-09 | |
| 50 | 05-FEB-2023 | 09:08 | 02042350ECD7.D | 1 | 23A0180-10 | |

| | Inject | Date/Time | Filename | DF | LabID | ClientID |
|----|-------------|-----------|----------------|----|--------------|----------|
| 51 | 05-FEB-2023 | 09:29 | 02042351ECD7.D | 1 | 23A0180-11 | |
| 52 | 05-FEB-2023 | 09:50 | 02042352ECD7.D | 1 | 23A0180-12 | |
| 53 | 05-FEB-2023 | 10:11 | 02042353ECD7.D | 1 | 23A0180-13 | |
| 54 | 05-FEB-2023 | 10:32 | 02042354ECD7.D | 1 | 23A0180-14 | |
| 55 | 05-FEB-2023 | 10:53 | 02042355ECD7.D | 1 | BLA0559-MS1 | |
| 56 | 05-FEB-2023 | 11:14 | 02042356ECD7.D | 1 | BLA0559-MSD1 | |
| 57 | 05-FEB-2023 | 11:35 | 02042357ECD7.D | 1 | 23A0180-15 | |
| 58 | 05-FEB-2023 | 11:57 | 02042358ECD7.D | 1 | AR1248CCV7 | |
| 59 | 05-FEB-2023 | 12:18 | 02042359ECD7.D | 1 | AR1660CCV8 | |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230204.b

ARI Job No.: DDTS Method: PCB.m Instrument: ecd7.i Date: 04-FEB-2023

| Time | Filename | LabID | ClientId | DF | Manually Integrated Compounds |
|------|----------------|--------------|----------|----|-------------------------------|
| 1555 | 02042301ECD7.D | DDTS | | 1 | NO MANUAL INTEGRATION |
| 1616 | 02042302ECD7.D | AR1254ICV1 | | 1 | NO MANUAL INTEGRATION |
| 1637 | 02042303ECD7.D | AR1660ICV2 | | 1 | NO MANUAL INTEGRATION |
| 1658 | 02042304ECD7.D | 23A0157-02 | | 1 | Aroclor-1254, |
| 1719 | 02042305ECD7.D | 23A0157-04 | | 1 | Aroclor-1254, |
| 1740 | 02042306ECD7.D | 23A0157-06 | | 1 | NO MANUAL INTEGRATION |
| 1801 | 02042307ECD7.D | 23A0157-07 | | 1 | NO MANUAL INTEGRATION |
| 1822 | 02042308ECD7.D | 23A0157-08 | | 1 | Aroclor-1254, |
| 1843 | 02042309ECD7.D | 23A0157-09 | | 1 | NO MANUAL INTEGRATION |
| 1904 | 02042310ECD7.D | 23A0157-10 | | 1 | NO MANUAL INTEGRATION |
| 1926 | 02042311ECD7.D | BLA0475-MS1 | | 1 | NO MANUAL INTEGRATION |
| 1947 | 02042312ECD7.D | 23A0157-13 | | 1 | NO MANUAL INTEGRATION |
| 2008 | 02042313ECD7.D | AR1248CCV1 | | 1 | NO MANUAL INTEGRATION |
| 2029 | 02042314ECD7.D | AR1660CCV2 | | 1 | NO MANUAL INTEGRATION |
| 2050 | 02042315ECD7.D | BLA0558-BLK1 | | 1 | NO MANUAL INTEGRATION |
| 2111 | 02042316ECD7.D | BLA0558-BS1 | | 1 | NO MANUAL INTEGRATION |
| 2132 | 02042317ECD7.D | BLA0558-BSD1 | | 1 | NO MANUAL INTEGRATION |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230204.b

| Time | Filename | LabID | ClientId | DF | Manually Integrated Compounds |
|------|----------------|--------------|----------|----|-------------------------------|
| 2153 | 02042318ECD7.D | BLA0558-SRM1 | | 1 | NO MANUAL INTEGRATION |
| 2214 | 02042319ECD7.D | 23A0179-01 | | 1 | Aroclor-1254, |
| 2235 | 02042320ECD7.D | 23A0179-02 | | 1 | Aroclor-1254, |
| 2257 | 02042321ECD7.D | 23A0179-03 | | 1 | Aroclor-1254, |
| 2318 | 02042322ECD7.D | 23A0179-04 | | 1 | Aroclor-1254, |
| 2339 | 02042323ECD7.D | 23A0179-05 | | 1 | NO MANUAL INTEGRATION |
| 0000 | 02042324ECD7.D | 23A0179-06 | | 1 | NO MANUAL INTEGRATION |
| 0021 | 02042325ECD7.D | 23A0179-07 | | 1 | Aroclor-1254, |
| 0042 | 02042326ECD7.D | 23A0179-08 | | 1 | NO MANUAL INTEGRATION |
| 0103 | 02042327ECD7.D | BLA0558-MS1 | | 1 | NO MANUAL INTEGRATION |
| 0124 | 02042328ECD7.D | BLA0558-MSD1 | | 1 | NO MANUAL INTEGRATION |
| 0145 | 02042329ECD7.D | AR1242CCV3 | | 1 | NO MANUAL INTEGRATION |
| 0206 | 02042330ECD7.D | AR1660CCV4 | | 1 | NO MANUAL INTEGRATION |
| 0228 | 02042331ECD7.D | 23A0179-09 | | 1 | NO MANUAL INTEGRATION |
| 0249 | 02042332ECD7.D | 23A0179-10 | | 1 | NO MANUAL INTEGRATION |
| 0310 | 02042333ECD7.D | 23A0179-11 | | 1 | NO MANUAL INTEGRATION |
| 0331 | 02042334ECD7.D | 23A0179-12 | | 1 | NO MANUAL INTEGRATION |
| 0352 | 02042335ECD7.D | BLA0559-BLK1 | | 1 | NO MANUAL INTEGRATION |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230204.b

| Time | Filename | LabID | ClientId | DF | Manually Integrated Compounds |
|------|----------------|--------------|----------|----|-------------------------------|
| 0413 | 02042336ECD7.D | BLA0559-BS1 | | 1 | NO MANUAL INTEGRATION |
| 0434 | 02042337ECD7.D | BLA0559-BSD1 | | 1 | NO MANUAL INTEGRATION |
| 0455 | 02042338ECD7.D | BLA0559-SRM1 | | 1 | NO MANUAL INTEGRATION |
| 0516 | 02042339ECD7.D | 23A0180-01 | | 1 | NO MANUAL INTEGRATION |
| 0537 | 02042340ECD7.D | 23A0180-02 | | 1 | NO MANUAL INTEGRATION |
| 0558 | 02042341ECD7.D | 23A0180-03 | | 1 | NO MANUAL INTEGRATION |
| 0619 | 02042342ECD7.D | 23A0180-04 | | 1 | Aroclor-1254, |
| 0641 | 02042343ECD7.D | 23A0180-05 | | 1 | Aroclor-1254, |
| 0702 | 02042344ECD7.D | 23A0180-06 | | 1 | NO MANUAL INTEGRATION |
| 0723 | 02042345ECD7.D | AR1254CCV5 | | 1 | NO MANUAL INTEGRATION |
| 0744 | 02042346ECD7.D | AR1660CCV6 | | 1 | NO MANUAL INTEGRATION |
| 0805 | 02042347ECD7.D | 23A0180-07 | | 1 | NO MANUAL INTEGRATION |
| 0826 | 02042348ECD7.D | 23A0180-08 | | 1 | NO MANUAL INTEGRATION |
| 0847 | 02042349ECD7.D | 23A0180-09 | | 1 | Aroclor-1254, |
| 0908 | 02042350ECD7.D | 23A0180-10 | | 1 | NO MANUAL INTEGRATION |
| 0929 | 02042351ECD7.D | 23A0180-11 | | 1 | NO MANUAL INTEGRATION |
| 0950 | 02042352ECD7.D | 23A0180-12 | | 1 | NO MANUAL INTEGRATION |
| 1011 | 02042353ECD7.D | 23A0180-13 | | 1 | Aroclor-1254, |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230204.b

| Time | Filename | LabID | ClientId | DF | Manually Integrated Compounds |
|------|----------------|--------------|----------|----|--|
| 1032 | 02042354ECD7.D | 23A0180-14 | | 1 | NO MANUAL INTEGRATION |
| 1053 | 02042355ECD7.D | BLA0559-MS1 | | 1 | NO MANUAL INTEGRATION |
| 1114 | 02042356ECD7.D | BLA0559-MSD1 | | 1 | NO MANUAL INTEGRATION |
| 1135 | 02042357ECD7.D | 23A0180-15 | | 1 | NO MANUAL INTEGRATION |
| 1157 | 02042358ECD7.D | AR1248CCV7 | | 1 | NO MANUAL INTEGRATION |
| 1218 | 02042359ECD7.D | AR1660CCV8 | | 1 | NO MANUAL INTEGRATION |
| 1555 | 02042301ECD7.D | DDTS | | 1 | NO MANUAL INTEGRATION |
| 1616 | 02042302ECD7.D | AR1254ICV1 | | 1 | NO MANUAL INTEGRATION |
| 1637 | 02042303ECD7.D | AR1660ICV2 | | 1 | NO MANUAL INTEGRATION |
| 1658 | 02042304ECD7.D | 23A0157-02 | | 1 | Aroclor-1248 [2C], Aroclor-1254 [2C], Aroclor-1260 [2C], |
| 1719 | 02042305ECD7.D | 23A0157-04 | | 1 | Aroclor-1248 [2C], Aroclor-1260 [2C], |
| 1740 | 02042306ECD7.D | 23A0157-06 | | 1 | NO MANUAL INTEGRATION |
| 1801 | 02042307ECD7.D | 23A0157-07 | | 1 | NO MANUAL INTEGRATION |
| 1822 | 02042308ECD7.D | 23A0157-08 | | 1 | Aroclor-1248 [2C], |
| 1843 | 02042309ECD7.D | 23A0157-09 | | 1 | NO MANUAL INTEGRATION |
| 1904 | 02042310ECD7.D | 23A0157-10 | | 1 | NO MANUAL INTEGRATION |
| 1926 | 02042311ECD7.D | BLA0475-MS1 | | 1 | NO MANUAL INTEGRATION |
| 1947 | 02042312ECD7.D | 23A0157-13 | | 1 | NO MANUAL INTEGRATION |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230204.b\230204.b

| Time | Filename | LabID | ClientId | DF | Manually Integrated Compounds |
|------|----------------|--------------|----------|----|-------------------------------|
| 2008 | 02042313ECD7.D | AR1248CCV1 | | 1 | NO MANUAL INTEGRATION |
| 2029 | 02042314ECD7.D | AR1660CCV2 | | 1 | NO MANUAL INTEGRATION |
| 2050 | 02042315ECD7.D | BLA0558-BLK1 | | 1 | NO MANUAL INTEGRATION |
| 2111 | 02042316ECD7.D | BLA0558-BS1 | | 1 | NO MANUAL INTEGRATION |
| 2132 | 02042317ECD7.D | BLA0558-BSD1 | | 1 | NO MANUAL INTEGRATION |
| 2153 | 02042318ECD7.D | BLA0558-SRM1 | | 1 | NO MANUAL INTEGRATION |
| 2214 | 02042319ECD7.D | 23A0179-01 | | 1 | Aroclor-1248 [2C], |
| 2235 | 02042320ECD7.D | 23A0179-02 | | 1 | Aroclor-1248 [2C], |
| 2257 | 02042321ECD7.D | 23A0179-03 | | 1 | Aroclor-1248 [2C], |
| 2318 | 02042322ECD7.D | 23A0179-04 | | 1 | Aroclor-1248 [2C], |
| 2339 | 02042323ECD7.D | 23A0179-05 | | 1 | Aroclor-1248 [2C], |
| 0000 | 02042324ECD7.D | 23A0179-06 | | 1 | Aroclor-1248 [2C], |
| 0021 | 02042325ECD7.D | 23A0179-07 | | 1 | Aroclor-1248 [2C], |
| 0042 | 02042326ECD7.D | 23A0179-08 | | 1 | Aroclor-1248 [2C], |
| 0103 | 02042327ECD7.D | BLA0558-MS1 | | 1 | NO MANUAL INTEGRATION |
| 0124 | 02042328ECD7.D | BLA0558-MSD1 | | 1 | NO MANUAL INTEGRATION |
| 0145 | 02042329ECD7.D | AR1242CCV3 | | 1 | NO MANUAL INTEGRATION |
| 0206 | 02042330ECD7.D | AR1660CCV4 | | 1 | NO MANUAL INTEGRATION |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230204.b\230204.b

| Time | Filename | LabID | ClientId | DF | Manually Integrated Compounds |
|------|----------------|--------------|----------|----|-------------------------------|
| 0228 | 02042331ECD7.D | 23A0179-09 | | 1 | NO MANUAL INTEGRATION |
| 0249 | 02042332ECD7.D | 23A0179-10 | | 1 | NO MANUAL INTEGRATION |
| 0310 | 02042333ECD7.D | 23A0179-11 | | 1 | NO MANUAL INTEGRATION |
| 0331 | 02042334ECD7.D | 23A0179-12 | | 1 | NO MANUAL INTEGRATION |
| 0352 | 02042335ECD7.D | BLA0559-BLK1 | | 1 | NO MANUAL INTEGRATION |
| 0413 | 02042336ECD7.D | BLA0559-BS1 | | 1 | NO MANUAL INTEGRATION |
| 0434 | 02042337ECD7.D | BLA0559-BSD1 | | 1 | NO MANUAL INTEGRATION |
| 0455 | 02042338ECD7.D | BLA0559-SRM1 | | 1 | NO MANUAL INTEGRATION |
| 0516 | 02042339ECD7.D | 23A0180-01 | | 1 | NO MANUAL INTEGRATION |
| 0537 | 02042340ECD7.D | 23A0180-02 | | 1 | NO MANUAL INTEGRATION |
| 0558 | 02042341ECD7.D | 23A0180-03 | | 1 | NO MANUAL INTEGRATION |
| 0619 | 02042342ECD7.D | 23A0180-04 | | 1 | Aroclor-1248 [2C], |
| 0641 | 02042343ECD7.D | 23A0180-05 | | 1 | Aroclor-1248 [2C], |
| 0702 | 02042344ECD7.D | 23A0180-06 | | 1 | NO MANUAL INTEGRATION |
| 0723 | 02042345ECD7.D | AR1254CCV5 | | 1 | NO MANUAL INTEGRATION |
| 0744 | 02042346ECD7.D | AR1660CCV6 | | 1 | NO MANUAL INTEGRATION |
| 0805 | 02042347ECD7.D | 23A0180-07 | | 1 | NO MANUAL INTEGRATION |
| 0826 | 02042348ECD7.D | 23A0180-08 | | 1 | NO MANUAL INTEGRATION |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230204.b\230204.b

| Time | Filename | LabID | ClientId | DF | Manually Integrated Compounds |
|------|----------------|--------------|----------|----|-------------------------------|
| 0847 | 02042349ECD7.D | 23A0180-09 | | 1 | Aroclor-1248 [2C], |
| 0908 | 02042350ECD7.D | 23A0180-10 | | 1 | NO MANUAL INTEGRATION |
| 0929 | 02042351ECD7.D | 23A0180-11 | | 1 | NO MANUAL INTEGRATION |
| 0950 | 02042352ECD7.D | 23A0180-12 | | 1 | NO MANUAL INTEGRATION |
| 1011 | 02042353ECD7.D | 23A0180-13 | | 1 | Aroclor-1248 [2C], |
| 1032 | 02042354ECD7.D | 23A0180-14 | | 1 | NO MANUAL INTEGRATION |
| 1053 | 02042355ECD7.D | BLA0559-MS1 | | 1 | NO MANUAL INTEGRATION |
| 1114 | 02042356ECD7.D | BLA0559-MSD1 | | 1 | NO MANUAL INTEGRATION |
| 1135 | 02042357ECD7.D | 23A0180-15 | | 1 | NO MANUAL INTEGRATION |
| 1157 | 02042358ECD7.D | AR1248CCV7 | | 1 | NO MANUAL INTEGRATION |
| 1218 | 02042359ECD7.D | AR1660CCV8 | | 1 | NO MANUAL INTEGRATION |

Security Status Report

Date: 07-Feb-2023 08:57

| | | |
|----------------|-------------|-----------------------------|
| 02042301ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042302ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042303ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042304ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042305ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042306ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042307ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042308ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042309ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042310ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042311ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042312ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042313ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042314ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042315ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042316ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042317ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042318ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042319ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042320ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042321ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042322ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042323ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042324ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042325ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042326ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042327ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042328ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042329ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042330ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042331ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042332ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042333ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042334ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042335ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042336ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042337ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042338ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042339ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042340ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042341ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042342ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042343ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042344ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |

| | | |
|----------------|-------------|-----------------------------|
| 02042345ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042346ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042347ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042348ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042349ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042350ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042351ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042352ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042353ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042354ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042355ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042356ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042357ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042358ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |
| 02042359ECD7.D | Data Locked | richardl, 07-Feb-2023 08:57 |



ANALYSIS SEQUENCE

SLB0086

Instrument: ECD7
Calibration ID: GA00061

Printed: 2/7/2023 10:47:05AM

| Lab Number | Analysis | Container | Order | Position | STD ID | ISTD ID | Client | Comments |
|--------------|-------------------|-----------|-------|----------|---------|---------|-----------------|----------|
| SLB0086-ICV1 | QC | | 1 | | L000862 | L000844 | | |
| SLB0086-ICV2 | QC | | 2 | | L000856 | L000844 | | |
| 23A0179-10 | 8082A PCB Solid 4 | A 03 | 3 | | | L000844 | Anchor QEA, LLC | |
| 23A0179-09 | 8082A PCB Solid 4 | A 03 | 4 | | | L000844 | Anchor QEA, LLC | |
| 23A0157-01 | 8082A PCB Solid 4 | A 03 | 5 | | | L000844 | Anchor QEA, LLC | |
| SLB0086-CCV1 | QC | | 6 | | L000861 | L000844 | | |
| SLB0086-CCV2 | QC | | 7 | | L000856 | L000844 | | |
| 23A0179-11 | 8082A PCB Solid 4 | A 03 | 8 | | | L000844 | Anchor QEA, LLC | |
| 23A0179-12 | 8082A PCB Solid 4 | A 03 | 9 | | | L000844 | Anchor QEA, LLC | |
| 23A0157-06 | 8082A PCB Solid 4 | A 03 | 10 | | | L000844 | Anchor QEA, LLC | |
| 23A0157-07 | 8082A PCB Solid 4 | A 03 | 11 | | | L000844 | Anchor QEA, LLC | |
| 23A0157-10 | 8082A PCB Solid 4 | A 03 | 12 | | | L000844 | Anchor QEA, LLC | |
| 23A0157-13 | 8082A PCB Solid 4 | A 03 | 13 | | | L000844 | Anchor QEA, LLC | |
| 23A0180-07 | 8082A PCB Solid 4 | A 01 | 14 | | | L000844 | Anchor QEA, LLC | |
| SLB0086-CCV3 | QC | | 15 | | L000860 | L000844 | | |
| SLB0086-CCV4 | QC | | 16 | | L000856 | L000844 | | |
| BLA0559-BLK1 | QC | | 17 | | | L000844 | | |
| BLA0559-BS1 | QC | | 18 | | | L000844 | | |
| BLA0559-BSD1 | QC | | 19 | | | L000844 | | |
| BLA0559-SRM1 | QC | | 20 | | | L000844 | | |
| 23A0180-01 | 8082A PCB Solid 4 | A 03 | 21 | | | L000844 | Anchor QEA, LLC | |

Samples Loaded By _____ Date _____

Data Processed By _____ Date _____



ANALYSIS SEQUENCE

SLB0086

Instrument: ECD7
Calibration ID: GA00061

Printed: 2/7/2023 10:47:05AM

| Lab Number | Analysis | Container | Order | Position | STD ID | ISTD ID | Client | Comments |
|--------------|------------------------------|-----------|-------|----------|---------|---------|-------------------------|----------|
| 23A0180-02 | 8082A PCB Solid 4 | A 03 | 22 | | | L000844 | Anchor QEA, LLC | |
| 23A0180-03 | 8082A PCB Solid 4 | A 03 | 23 | | | L000844 | Anchor QEA, LLC | |
| 23A0180-08 | 8082A PCB Solid 4 | A 01 | 24 | | | L000844 | Anchor QEA, LLC | |
| 23A0180-10 | 8082A PCB Solid 4 | A 01 | 25 | | | L000844 | Anchor QEA, LLC | |
| 23A0180-11 | 8082A PCB Solid 4 | A 01 | 26 | | | L000844 | Anchor QEA, LLC | |
| 23A0180-12 | 8082A PCB Solid 4 | A 01 | 27 | | | L000844 | Anchor QEA, LLC | |
| SLB0086-CCV5 | QC | | 28 | | L000862 | L000844 | | |
| SLB0086-CCV6 | QC | | 29 | | L000856 | L000844 | | |
| 23A0180-14 | 8082A PCB Solid 4 | A 01 | 30 | | | L000844 | Anchor QEA, LLC | |
| BLA0559-MS1 | QC | | 31 | | | L000844 | | |
| BLA0559-MSD1 | QC | | 32 | | | L000844 | | |
| 23A0180-15 | 8082A PCB Solid 4 | A 01 | 33 | | | L000844 | Anchor QEA, LLC | |
| BLB0055-BLK1 | QC | | 34 | | | L000844 | | |
| BLB0055-BS1 | QC | | 35 | | | L000844 | | |
| BLB0055-BSD1 | QC | | 36 | | | L000844 | | |
| 23B0022-01 | 8.3 PCBs 0.01 ug/L or 20 ug/ | B 01 | 37 | | | L000844 | Nucor Steel Corporation | |
| SLB0086-CCV7 | QC | | 38 | | L000861 | L000844 | | |
| SLB0086-CCV8 | QC | | 39 | | L000856 | L000844 | | |

Samples Loaded By _____ Date _____

Data Processed By _____ Date _____

GC LOG SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230206.b

| | Inject Date/Time | Filename | DF | LabID | ClientID |
|----|-------------------|----------------|------|---------------|------------|
| 1 | 06-FEB-2023 09:33 | 02062301ECD7.D | 1 | DDTS | |
| 2 | 06-FEB-2023 09:54 | 02062302ECD7.D | 1 | AR1254ICV1 | |
| 3 | 06-FEB-2023 10:15 | 02062303ECD7.D | 1 | AR1660ICV2 | |
| 4 | 06-FEB-2023 10:36 | 02062304ECD7.D | 50 | 23A0179-09RE1 | |
| 5 | 06-FEB-2023 10:57 | 02062305ECD7.D | 10 | 23A0179-10RE1 | |
| 6 | 06-FEB-2023 11:18 | 02062306ECD7.D | 500 | 23A0179-09RE | |
| 7 | 06-FEB-2023 11:39 | 02062307ECD7.D | 1 | DCM RINSE | |
| 8 | 06-FEB-2023 12:00 | 02062308ECD7.D | 1 | DCM RINSE | |
| 9 | 06-FEB-2023 12:21 | 02062309ECD7.D | 100 | 23A0179-10RE | |
| 10 | 06-FEB-2023 12:42 | 02062310ECD7.D | 5000 | 23A0179-09R | |
| 11 | 06-FEB-2023 13:04 | 02062311ECD7.D | 1 | DCM RINSE | |
| 12 | 06-FEB-2023 13:25 | 02062312ECD7.D | 5 | 23A0157-01RE1 | |
| 13 | 06-FEB-2023 13:46 | 02062313ECD7.D | 1 | AR1248CCV1 | |
| 14 | 06-FEB-2023 14:07 | 02062314ECD7.D | 1 | AR1660CCV2 | |
| 15 | 06-FEB-2023 14:28 | 02062315ECD7.D | 1 | 23A0179-11 | |
| 16 | 06-FEB-2023 14:49 | 02062316ECD7.D | 1 | 23A0179-12 | |
| 17 | 06-FEB-2023 15:10 | 02062317ECD7.D | 1 | 23A0157-06 | |
| 18 | 06-FEB-2023 15:31 | 02062318ECD7.D | 1 | 23A0157-07 | |
| 19 | 06-FEB-2023 15:52 | 02062319ECD7.D | 1 | 23A0157-10 | |
| 20 | 06-FEB-2023 16:13 | 02062320ECD7.D | 1 | 23A0157-13 | |
| 21 | 06-FEB-2023 16:34 | 02062321ECD7.D | 10 | 23A0180-07RE1 | |
| 22 | 06-FEB-2023 16:55 | 02062322ECD7.D | 1 | AR1242CCV3 | |
| 23 | 06-FEB-2023 17:16 | 02062323ECD7.D | 1 | AR1660CCV4 | |
| 24 | 06-FEB-2023 17:37 | 02062324ECD7.D | 1 | BLA0559-BLK1 | |
| 25 | 06-FEB-2023 17:58 | 02062325ECD7.D | 1 | BLA0559-BS1 | |
| 26 | 06-FEB-2023 18:19 | 02062326ECD7.D | 1 | BLA0559-BSD1 | |
| 27 | 06-FEB-2023 18:40 | 02062327ECD7.D | 1 | BLA0559-SRM1 | |
| 28 | 06-FEB-2023 19:01 | 02062328ECD7.D | 1 | 23A0180-01 | |
| 29 | 06-FEB-2023 19:22 | 02062329ECD7.D | 1 | 23A0180-02 | |
| 30 | 06-FEB-2023 19:43 | 02062330ECD7.D | 1 | 23A0180-03 | |
| 31 | 06-FEB-2023 20:04 | 02062331ECD7.D | 1 | 23A0180-04 | |
| 32 | 06-FEB-2023 20:25 | 02062332ECD7.D | 1 | 23A0180-05 | |
| 33 | 06-FEB-2023 20:46 | 02062333ECD7.D | 1 | 23A0180-08 | |
| 34 | 06-FEB-2023 21:07 | 02062334ECD7.D | 1 | 23A0180-09 | |
| 35 | 06-FEB-2023 21:28 | 02062335ECD7.D | 1 | 23A0180-10 | |
| 36 | 06-FEB-2023 21:49 | 02062336ECD7.D | 1 | 23A0180-11 | |
| 37 | 06-FEB-2023 22:10 | 02062337ECD7.D | 1 | 23A0180-12 | |
| 38 | 06-FEB-2023 22:31 | 02062338ECD7.D | 1 | AR1254CCV5 | |
| 39 | 06-FEB-2023 22:52 | 02062339ECD7.D | 1 | AR1660CCV6 | |
| 40 | 06-FEB-2023 23:13 | 02062340ECD7.D | 1 | 23A0180-13 | |
| 41 | 06-FEB-2023 23:34 | 02062341ECD7.D | 1 | 23A0180-14 | |
| 42 | 06-FEB-2023 23:55 | 02062342ECD7.D | 1 | BLA0559-MS1 | |
| 43 | 07-FEB-2023 00:16 | 02062343ECD7.D | 1 | BLA0559-MSD1 | |
| 44 | 07-FEB-2023 00:37 | 02062344ECD7.D | 1 | 23A0180-15 | |
| 45 | 07-FEB-2023 00:58 | 02062345ECD7.D | 1 | BLB0055-BLK1 | |
| 46 | 07-FEB-2023 01:19 | 02062346ECD7.D | 1 | BLB0055-BS1 | |
| 47 | 07-FEB-2023 01:40 | 02062347ECD7.D | 1 | BLB0055-BSD1 | |
| 48 | 07-FEB-2023 02:01 | 02062348ECD7.D | 1 | 23B0022-01 | |
| 49 | 07-FEB-2023 02:22 | 02062349ECD7.D | 1 | AR1254CCV7 | AR1248CCV7 |
| 50 | 07-FEB-2023 02:43 | 02062350ECD7.D | 1 | AR1660CCV8 | |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230206.b

ARI Job No.: DDTS Method: PCB.m Instrument: ecd7.i Date: 06-FEB-2023

| Time | Filename | LabID | ClientId | DF | Manually Integrated Compounds |
|------|----------------|---------------|----------|------|-------------------------------|
| 0933 | 02062301ECD7.D | DDTS | | 1 | NO MANUAL INTEGRATION |
| 0954 | 02062302ECD7.D | AR1254ICV1 | | 1 | NO MANUAL INTEGRATION |
| 1015 | 02062303ECD7.D | AR1660ICV2 | | 1 | NO MANUAL INTEGRATION |
| 1036 | 02062304ECD7.D | 23A0179-09RE1 | | 50 | NO MANUAL INTEGRATION |
| 1057 | 02062305ECD7.D | 23A0179-10RE1 | | 10 | NO MANUAL INTEGRATION |
| 1118 | 02062306ECD7.D | 23A0179-09RE | | 500 | NO MANUAL INTEGRATION |
| 1139 | 02062307ECD7.D | DCM RINSE | | 1 | NO MANUAL INTEGRATION |
| 1200 | 02062308ECD7.D | DCM RINSE | | 1 | NO MANUAL INTEGRATION |
| 1221 | 02062309ECD7.D | 23A0179-10RE | | 100 | NO MANUAL INTEGRATION |
| 1242 | 02062310ECD7.D | 23A0179-09R | | 5000 | NO MANUAL INTEGRATION |
| 1304 | 02062311ECD7.D | DCM RINSE | | 1 | NO MANUAL INTEGRATION |
| 1325 | 02062312ECD7.D | 23A0157-01RE1 | | 5 | NO MANUAL INTEGRATION |
| 1346 | 02062313ECD7.D | AR1248CCV1 | | 1 | NO MANUAL INTEGRATION |
| 1407 | 02062314ECD7.D | AR1660CCV2 | | 1 | NO MANUAL INTEGRATION |
| 1428 | 02062315ECD7.D | 23A0179-11 | | 1 | Aroclor-1254, |
| 1449 | 02062316ECD7.D | 23A0179-12 | | 1 | NO MANUAL INTEGRATION |
| 1510 | 02062317ECD7.D | 23A0157-06 | | 1 | Aroclor-1254, |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230206.b

| Time | Filename | LabID | ClientId | DF | Manually Integrated Compounds |
|------|----------------|---------------|----------|----|-------------------------------|
| 1531 | 02062318ECD7.D | 23A0157-07 | | 1 | NO MANUAL INTEGRATION |
| 1552 | 02062319ECD7.D | 23A0157-10 | | 1 | Aroclor-1254, |
| 1613 | 02062320ECD7.D | 23A0157-13 | | 1 | NO MANUAL INTEGRATION |
| 1634 | 02062321ECD7.D | 23A0180-07RE1 | | 10 | NO MANUAL INTEGRATION |
| 1655 | 02062322ECD7.D | AR1242CCV3 | | 1 | NO MANUAL INTEGRATION |
| 1716 | 02062323ECD7.D | AR1660CCV4 | | 1 | NO MANUAL INTEGRATION |
| 1737 | 02062324ECD7.D | BLA0559-BLK1 | | 1 | NO MANUAL INTEGRATION |
| 1758 | 02062325ECD7.D | BLA0559-BS1 | | 1 | NO MANUAL INTEGRATION |
| 1819 | 02062326ECD7.D | BLA0559-BSD1 | | 1 | NO MANUAL INTEGRATION |
| 1840 | 02062327ECD7.D | BLA0559-SRML | | 1 | NO MANUAL INTEGRATION |
| 1901 | 02062328ECD7.D | 23A0180-01 | | 1 | Aroclor-1254, |
| 1922 | 02062329ECD7.D | 23A0180-02 | | 1 | NO MANUAL INTEGRATION |
| 1943 | 02062330ECD7.D | 23A0180-03 | | 1 | Aroclor-1254, |
| 2004 | 02062331ECD7.D | 23A0180-04 | | 1 | NO MANUAL INTEGRATION |
| 2025 | 02062332ECD7.D | 23A0180-05 | | 1 | NO MANUAL INTEGRATION |
| 2046 | 02062333ECD7.D | 23A0180-08 | | 1 | NO MANUAL INTEGRATION |
| 2107 | 02062334ECD7.D | 23A0180-09 | | 1 | Aroclor-1254, |
| 2128 | 02062335ECD7.D | 23A0180-10 | | 1 | Aroclor-1254, |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230206.b

| Time | Filename | LabID | ClientId | DF | Manually Integrated Compounds |
|------|----------------|--------------|----------|----|-------------------------------|
| 2149 | 02062336ECD7.D | 23A0180-11 | | 1 | Aroclor-1254, |
| 2210 | 02062337ECD7.D | 23A0180-12 | | 1 | Aroclor-1254, |
| 2231 | 02062338ECD7.D | AR1254CCV5 | | 1 | NO MANUAL INTEGRATION |
| 2252 | 02062339ECD7.D | AR1660CCV6 | | 1 | NO MANUAL INTEGRATION |
| 2313 | 02062340ECD7.D | 23A0180-13 | | 1 | Aroclor-1254, |
| 2334 | 02062341ECD7.D | 23A0180-14 | | 1 | Aroclor-1254, |
| 2355 | 02062342ECD7.D | BLA0559-MS1 | | 1 | NO MANUAL INTEGRATION |
| 0016 | 02062343ECD7.D | BLA0559-MSD1 | | 1 | NO MANUAL INTEGRATION |
| 0037 | 02062344ECD7.D | 23A0180-15 | | 1 | Aroclor-1254, |
| 0058 | 02062345ECD7.D | BLB0055-BLK1 | | 1 | NO MANUAL INTEGRATION |
| 0119 | 02062346ECD7.D | BLB0055-BS1 | | 1 | NO MANUAL INTEGRATION |
| 0140 | 02062347ECD7.D | BLB0055-BSD1 | | 1 | NO MANUAL INTEGRATION |
| 0201 | 02062348ECD7.D | 23B0022-01 | | 1 | NO MANUAL INTEGRATION |
| 0222 | 02062349ECD7.D | AR1254CCV7 | | 1 | NO MANUAL INTEGRATION |
| 0243 | 02062350ECD7.D | AR1660CCV8 | | 1 | NO MANUAL INTEGRATION |
| 0933 | 02062301ECD7.D | DDTS | | 1 | NO MANUAL INTEGRATION |
| 0954 | 02062302ECD7.D | AR1254ICV1 | | 1 | NO MANUAL INTEGRATION |
| 1015 | 02062303ECD7.D | AR1660ICV2 | | 1 | NO MANUAL INTEGRATION |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230206.b\230206.b

| Time | Filename | LabID | ClientId | DF | Manually Integrated Compounds |
|------|----------------|---------------|----------|------|-------------------------------|
| 1036 | 02062304ECD7.D | 23A0179-09RE1 | | 50 | NO MANUAL INTEGRATION |
| 1057 | 02062305ECD7.D | 23A0179-10RE1 | | 10 | NO MANUAL INTEGRATION |
| 1118 | 02062306ECD7.D | 23A0179-09RE | | 500 | NO MANUAL INTEGRATION |
| 1139 | 02062307ECD7.D | DCM RINSE | | 1 | NO MANUAL INTEGRATION |
| 1200 | 02062308ECD7.D | DCM RINSE | | 1 | NO MANUAL INTEGRATION |
| 1221 | 02062309ECD7.D | 23A0179-10RE | | 100 | NO MANUAL INTEGRATION |
| 1242 | 02062310ECD7.D | 23A0179-09R | | 5000 | NO MANUAL INTEGRATION |
| 1304 | 02062311ECD7.D | DCM RINSE | | 1 | NO MANUAL INTEGRATION |
| 1325 | 02062312ECD7.D | 23A0157-01RE1 | | 5 | Aroclor-1248 [2C], |
| 1346 | 02062313ECD7.D | AR1248CCV1 | | 1 | NO MANUAL INTEGRATION |
| 1407 | 02062314ECD7.D | AR1660CCV2 | | 1 | NO MANUAL INTEGRATION |
| 1428 | 02062315ECD7.D | 23A0179-11 | | 1 | Aroclor-1248 [2C], |
| 1449 | 02062316ECD7.D | 23A0179-12 | | 1 | Aroclor-1248 [2C], |
| 1510 | 02062317ECD7.D | 23A0157-06 | | 1 | Aroclor-1248 [2C], |
| 1531 | 02062318ECD7.D | 23A0157-07 | | 1 | Aroclor-1248 [2C], |
| 1552 | 02062319ECD7.D | 23A0157-10 | | 1 | Aroclor-1248 [2C], |
| 1613 | 02062320ECD7.D | 23A0157-13 | | 1 | Aroclor-1248 [2C], |
| 1634 | 02062321ECD7.D | 23A0180-07RE1 | | 10 | NO MANUAL INTEGRATION |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230206.b\230206.b

| Time | Filename | LabID | ClientId | DF | Manually Integrated Compounds |
|------|----------------|--------------|----------|----|-------------------------------|
| 1655 | 02062322ECD7.D | AR1242CCV3 | | 1 | NO MANUAL INTEGRATION |
| 1716 | 02062323ECD7.D | AR1660CCV4 | | 1 | NO MANUAL INTEGRATION |
| 1737 | 02062324ECD7.D | BLA0559-BLK1 | | 1 | NO MANUAL INTEGRATION |
| 1758 | 02062325ECD7.D | BLA0559-BS1 | | 1 | NO MANUAL INTEGRATION |
| 1819 | 02062326ECD7.D | BLA0559-BSD1 | | 1 | NO MANUAL INTEGRATION |
| 1840 | 02062327ECD7.D | BLA0559-SRM1 | | 1 | NO MANUAL INTEGRATION |
| 1901 | 02062328ECD7.D | 23A0180-01 | | 1 | Aroclor-1248 [2C], |
| 1922 | 02062329ECD7.D | 23A0180-02 | | 1 | Aroclor-1248 [2C], |
| 1943 | 02062330ECD7.D | 23A0180-03 | | 1 | Aroclor-1248 [2C], |
| 2004 | 02062331ECD7.D | 23A0180-04 | | 1 | NO MANUAL INTEGRATION |
| 2025 | 02062332ECD7.D | 23A0180-05 | | 1 | NO MANUAL INTEGRATION |
| 2046 | 02062333ECD7.D | 23A0180-08 | | 1 | Aroclor-1248 [2C], |
| 2107 | 02062334ECD7.D | 23A0180-09 | | 1 | NO MANUAL INTEGRATION |
| 2128 | 02062335ECD7.D | 23A0180-10 | | 1 | Aroclor-1248 [2C], |
| 2149 | 02062336ECD7.D | 23A0180-11 | | 1 | Aroclor-1248 [2C], |
| 2210 | 02062337ECD7.D | 23A0180-12 | | 1 | Aroclor-1248 [2C], |
| 2231 | 02062338ECD7.D | AR1254CCV5 | | 1 | NO MANUAL INTEGRATION |
| 2252 | 02062339ECD7.D | AR1660CCV6 | | 1 | NO MANUAL INTEGRATION |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230206.b\230206.b

| Time | Filename | LabID | ClientId | DF | Manually Integrated Compounds |
|------|----------------|--------------|----------|----|---------------------------------------|
| 2313 | 02062340ECD7.D | 23A0180-13 | | 1 | NO MANUAL INTEGRATION |
| 2334 | 02062341ECD7.D | 23A0180-14 | | 1 | Aroclor-1248 [2C], Aroclor-1260 [2C], |
| 2355 | 02062342ECD7.D | BLA0559-MS1 | | 1 | NO MANUAL INTEGRATION |
| 0016 | 02062343ECD7.D | BLA0559-MSD1 | | 1 | NO MANUAL INTEGRATION |
| 0037 | 02062344ECD7.D | 23A0180-15 | | 1 | Aroclor-1248 [2C], |
| 0058 | 02062345ECD7.D | BLB0055-BLK1 | | 1 | NO MANUAL INTEGRATION |
| 0119 | 02062346ECD7.D | BLB0055-BS1 | | 1 | NO MANUAL INTEGRATION |
| 0140 | 02062347ECD7.D | BLB0055-BSD1 | | 1 | NO MANUAL INTEGRATION |
| 0201 | 02062348ECD7.D | 23B0022-01 | | 1 | NO MANUAL INTEGRATION |
| 0222 | 02062349ECD7.D | AR1254CCV7 | | 1 | NO MANUAL INTEGRATION |
| 0243 | 02062350ECD7.D | AR1660CCV8 | | 1 | NO MANUAL INTEGRATION |

Security Status Report

Date: 07-Feb-2023 11:35

| | | |
|----------------|-------------|-----------------------------|
| 02062301ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |
| 02062302ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |
| 02062303ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |
| 02062304ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |
| 02062305ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |
| 02062306ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |
| 02062307ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |
| 02062308ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |
| 02062309ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |
| 02062310ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |
| 02062311ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |
| 02062312ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |
| 02062313ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |
| 02062314ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |
| 02062315ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |
| 02062316ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |
| 02062317ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |
| 02062318ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |
| 02062319ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |
| 02062320ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |
| 02062321ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |
| 02062322ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |
| 02062323ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |
| 02062324ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |
| 02062325ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |
| 02062326ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |
| 02062327ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |
| 02062328ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |
| 02062329ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |
| 02062330ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |
| 02062331ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |
| 02062332ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |
| 02062333ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |
| 02062334ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |
| 02062335ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |
| 02062336ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |
| 02062337ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |
| 02062338ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |
| 02062339ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |
| 02062340ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |
| 02062341ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |
| 02062342ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |
| 02062343ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |
| 02062344ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |

| | | |
|----------------|-------------|-----------------------------|
| 02062345ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |
| 02062346ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |
| 02062347ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |
| 02062348ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |
| 02062349ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |
| 02062350ECD7.D | Data Locked | richardl, 07-Feb-2023 11:35 |



ANALYSIS SEQUENCE

SLB0109

Instrument: ECD7
Calibration ID: GA00061

Printed: 2/8/2023 12:28:16PM

| Lab Number | Analysis | Container | Order | Position | STD ID | ISTD ID | Client | Comments |
|--------------|-------------------|-----------|-------|----------|---------|---------|-----------------|----------|
| SLB0109-ICV1 | QC | | 1 | | L000862 | L000844 | | |
| SLB0109-ICV2 | QC | | 2 | | L000856 | L000844 | | |
| 23A0180-06 | 8082A PCB Solid 4 | A 01 | 3 | | | L000844 | Anchor QEA, LLC | |
| SLB0109-CCV1 | QC | | 4 | | L000861 | L000844 | | |
| SLB0109-CCV2 | QC | | 5 | | L000856 | L000844 | | |
| BLA0625-BLK1 | QC | | 6 | | | L000844 | | |
| BLA0625-BS1 | QC | | 7 | | | L000844 | | |
| BLA0625-BSD1 | QC | | 8 | | | L000844 | | |
| BLA0625-SRM1 | QC | | 9 | | | L000844 | | |
| 23A0206-01 | 8082A PCB Solid 4 | B 03 | 10 | | | L000844 | Anchor QEA, LLC | |
| 23A0206-02 | 8082A PCB Solid 4 | B 03 | 11 | | | L000844 | Anchor QEA, LLC | |
| 23A0206-03 | 8082A PCB Solid 4 | B 03 | 12 | | | L000844 | Anchor QEA, LLC | |
| 23A0206-04 | 8082A PCB Solid 4 | B 03 | 13 | | | L000844 | Anchor QEA, LLC | |
| 23A0206-05 | 8082A PCB Solid 4 | B 03 | 14 | | | L000844 | Anchor QEA, LLC | |
| 23A0206-06 | 8082A PCB Solid 4 | B 03 | 15 | | | L000844 | Anchor QEA, LLC | |
| 23A0206-07 | 8082A PCB Solid 4 | B 03 | 16 | | | L000844 | Anchor QEA, LLC | |
| BLA0625-MS1 | QC | | 17 | | | L000844 | | |
| BLA0625-MSD1 | QC | | 18 | | | L000844 | | |
| SLB0109-CCV3 | QC | | 19 | | L000860 | L000844 | | |
| SLB0109-CCV4 | QC | | 20 | | L000856 | L000844 | | |
| SLB0109-CCV5 | QC | | 21 | | L000862 | L000844 | | |

Samples Loaded By _____ Date _____

Data Processed By _____ Date _____

GC LOG SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230207.b

| | Inject | Date/Time | Filename | DF | LabID | ClientID |
|----|-------------|-----------|----------------|----|---------------|----------|
| 1 | 07-FEB-2023 | 12:41 | 02072301ECD7.D | 1 | DDTS | |
| 2 | 07-FEB-2023 | 13:02 | 02072302ECD7.D | 1 | AR1254ICV1 | |
| 3 | 07-FEB-2023 | 13:23 | 02072303ECD7.D | 1 | AR1660ICV2 | |
| 4 | 07-FEB-2023 | 13:44 | 02072304ECD7.D | 5 | 23A0180-06RE1 | |
| 5 | 07-FEB-2023 | 14:05 | 02072305ECD7.D | 1 | AR1248CCV1 | |
| 6 | 07-FEB-2023 | 14:26 | 02072306ECD7.D | 1 | AR1660CCV2 | |
| 7 | 07-FEB-2023 | 14:47 | 02072307ECD7.D | 1 | BLB0625-BLK1 | |
| 8 | 07-FEB-2023 | 15:08 | 02072308ECD7.D | 1 | BLB0625-BS1 | |
| 9 | 07-FEB-2023 | 15:29 | 02072309ECD7.D | 1 | BLB0625-BSD1 | |
| 10 | 07-FEB-2023 | 15:50 | 02072310ECD7.D | 1 | BLB0625-SRM1 | |
| 11 | 07-FEB-2023 | 16:11 | 02072311ECD7.D | 1 | 23A0206-01 | |
| 12 | 07-FEB-2023 | 16:32 | 02072312ECD7.D | 1 | 23A0206-02 | |
| 13 | 07-FEB-2023 | 16:53 | 02072313ECD7.D | 1 | 23A0206-03 | |
| 14 | 07-FEB-2023 | 17:14 | 02072314ECD7.D | 1 | 23A0206-04 | |
| 15 | 07-FEB-2023 | 17:35 | 02072315ECD7.D | 1 | 23A0206-05 | |
| 16 | 07-FEB-2023 | 17:57 | 02072316ECD7.D | 1 | 23A0206-06 | |
| 17 | 07-FEB-2023 | 18:18 | 02072317ECD7.D | 1 | 23A0206-07 | |
| 18 | 07-FEB-2023 | 18:39 | 02072318ECD7.D | 1 | BLB0625-MS1 | |
| 19 | 07-FEB-2023 | 19:00 | 02072319ECD7.D | 1 | BLB0625-MSD1 | |
| 20 | 07-FEB-2023 | 19:21 | 02072320ECD7.D | 1 | AR1242CCV3 | |
| 21 | 07-FEB-2023 | 19:42 | 02072321ECD7.D | 1 | AR1660CCV4 | |
| 22 | 07-FEB-2023 | 20:03 | 02072322ECD7.D | 1 | 23A0206-08 | |
| 23 | 07-FEB-2023 | 20:24 | 02072323ECD7.D | 1 | 23A0206-09 | |
| 24 | 07-FEB-2023 | 20:45 | 02072324ECD7.D | 1 | 23A0206-10 | |
| 25 | 07-FEB-2023 | 21:06 | 02072325ECD7.D | 1 | 23A0206-11 | |
| 26 | 07-FEB-2023 | 21:27 | 02072326ECD7.D | 1 | 23A0206-12 | |
| 27 | 07-FEB-2023 | 21:48 | 02072327ECD7.D | 1 | 23A0206-13 | |
| 28 | 07-FEB-2023 | 22:09 | 02072328ECD7.D | 1 | 23A0206-14 | |
| 29 | 07-FEB-2023 | 22:30 | 02072329ECD7.D | 1 | AR1254CCV5 | |
| 30 | 07-FEB-2023 | 22:51 | 02072330ECD7.D | 1 | AR1660CCV6 | |
| 31 | 07-FEB-2023 | 23:12 | 02072331ECD7.D | 1 | BLA0555-BLK1 | |
| 32 | 07-FEB-2023 | 23:33 | 02072332ECD7.D | 1 | BLA0555-BS1 | |
| 33 | 07-FEB-2023 | 23:54 | 02072333ECD7.D | 1 | BLA0555-BSD1 | |
| 34 | 08-FEB-2023 | 00:15 | 02072334ECD7.D | 1 | BLA0555-SRM1 | |
| 35 | 08-FEB-2023 | 00:36 | 02072335ECD7.D | 1 | 23A0158-01 | |
| 36 | 08-FEB-2023 | 00:57 | 02072336ECD7.D | 1 | 23A0158-02 | |
| 37 | 08-FEB-2023 | 01:18 | 02072337ECD7.D | 1 | 23A0158-03 | |
| 38 | 08-FEB-2023 | 01:39 | 02072338ECD7.D | 1 | 23A0158-04 | |
| 39 | 08-FEB-2023 | 02:00 | 02072339ECD7.D | 1 | 23A0158-05 | |
| 40 | 08-FEB-2023 | 02:21 | 02072340ECD7.D | 1 | 23A0158-06 | |
| 41 | 08-FEB-2023 | 02:42 | 02072341ECD7.D | 1 | 23A0158-07 | |
| 42 | 08-FEB-2023 | 03:03 | 02072342ECD7.D | 1 | 23A0158-08 | |
| 43 | 08-FEB-2023 | 03:24 | 02072343ECD7.D | 1 | BLA0555-MS1 | |
| 44 | 08-FEB-2023 | 03:45 | 02072344ECD7.D | 1 | BLA0555-MSD1 | |
| 45 | 08-FEB-2023 | 04:06 | 02072345ECD7.D | 1 | 23A0158-09 | |
| 46 | 08-FEB-2023 | 04:27 | 02072346ECD7.D | 1 | AR1248CCV7 | |
| 47 | 08-FEB-2023 | 04:48 | 02072347ECD7.D | 1 | AR1660CCV8 | |
| 48 | 08-FEB-2023 | 05:09 | 02072348ECD7.D | 1 | 23A0158-10 | |
| 49 | 08-FEB-2023 | 05:30 | 02072349ECD7.D | 1 | 23A0158-11 | |
| 50 | 08-FEB-2023 | 05:51 | 02072350ECD7.D | 1 | 23A0158-12 | |

| | Inject | Date/Time | Filename | DF | LabID | ClientID |
|----|-------------|-----------|----------------|----|---------------|----------|
| 51 | 08-FEB-2023 | 06:12 | 02072351ECD7.D | 1 | 23A0158-13 | |
| 52 | 08-FEB-2023 | 06:33 | 02072352ECD7.D | 1 | 23A0158-14 | |
| 53 | 08-FEB-2023 | 06:54 | 02072353ECD7.D | 1 | 23A0158-15 | |
| 54 | 08-FEB-2023 | 07:15 | 02072354ECD7.D | 1 | 23A0158-16 | |
| 55 | 08-FEB-2023 | 07:36 | 02072355ECD7.D | 1 | 23A0196-01 | |
| 56 | 08-FEB-2023 | 07:57 | 02072356ECD7.D | 5 | 23A0196-01RE1 | |
| 57 | 08-FEB-2023 | 08:18 | 02072357ECD7.D | 1 | AR1242CCV9 | |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230207.b

ARI Job No.: DDTS Method: PCB.m Instrument: ecd7.i Date: 07-FEB-2023

| Time | Filename | LabID | ClientId | DF | Manually Integrated Compounds |
|------|----------------|---------------|----------|----|-------------------------------|
| 1241 | 02072301ECD7.D | DDTS | | 1 | NO MANUAL INTEGRATION |
| 1302 | 02072302ECD7.D | AR1254ICV1 | | 1 | NO MANUAL INTEGRATION |
| 1323 | 02072303ECD7.D | AR1660ICV2 | | 1 | NO MANUAL INTEGRATION |
| 1344 | 02072304ECD7.D | 23A0180-06RE1 | | 5 | NO MANUAL INTEGRATION |
| 1405 | 02072305ECD7.D | AR1248CCV1 | | 1 | Aroclor-1248, |
| 1426 | 02072306ECD7.D | AR1660CCV2 | | 1 | NO MANUAL INTEGRATION |
| 1447 | 02072307ECD7.D | BLB0625-BLK1 | | 1 | NO MANUAL INTEGRATION |
| 1508 | 02072308ECD7.D | BLB0625-BS1 | | 1 | NO MANUAL INTEGRATION |
| 1529 | 02072309ECD7.D | BLB0625-BSD1 | | 1 | NO MANUAL INTEGRATION |
| 1550 | 02072310ECD7.D | BLB0625-SRM1 | | 1 | NO MANUAL INTEGRATION |
| 1611 | 02072311ECD7.D | 23A0206-01 | | 1 | NO MANUAL INTEGRATION |
| 1632 | 02072312ECD7.D | 23A0206-02 | | 1 | Aroclor-1254, |
| 1653 | 02072313ECD7.D | 23A0206-03 | | 1 | Aroclor-1254, |
| 1714 | 02072314ECD7.D | 23A0206-04 | | 1 | Aroclor-1254, |
| 1735 | 02072315ECD7.D | 23A0206-05 | | 1 | Aroclor-1254, |
| 1757 | 02072316ECD7.D | 23A0206-06 | | 1 | Aroclor-1254, |
| 1818 | 02072317ECD7.D | 23A0206-07 | | 1 | Aroclor-1254, |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230207.b

| Time | Filename | LabID | ClientId | DF | Manually Integrated Compounds |
|------|----------------|--------------|----------|----|-------------------------------|
| 1839 | 02072318ECD7.D | BLB0625-MS1 | | 1 | NO MANUAL INTEGRATION |
| 1900 | 02072319ECD7.D | BLB0625-MSD1 | | 1 | NO MANUAL INTEGRATION |
| 1921 | 02072320ECD7.D | AR1242CCV3 | | 1 | NO MANUAL INTEGRATION |
| 1942 | 02072321ECD7.D | AR1660CCV4 | | 1 | NO MANUAL INTEGRATION |
| 2003 | 02072322ECD7.D | 23A0206-08 | | 1 | NO MANUAL INTEGRATION |
| 2024 | 02072323ECD7.D | 23A0206-09 | | 1 | NO MANUAL INTEGRATION |
| 2045 | 02072324ECD7.D | 23A0206-10 | | 1 | NO MANUAL INTEGRATION |
| 2106 | 02072325ECD7.D | 23A0206-11 | | 1 | NO MANUAL INTEGRATION |
| 2127 | 02072326ECD7.D | 23A0206-12 | | 1 | NO MANUAL INTEGRATION |
| 2148 | 02072327ECD7.D | 23A0206-13 | | 1 | NO MANUAL INTEGRATION |
| 2209 | 02072328ECD7.D | 23A0206-14 | | 1 | NO MANUAL INTEGRATION |
| 2230 | 02072329ECD7.D | AR1254CCV5 | | 1 | NO MANUAL INTEGRATION |
| 2251 | 02072330ECD7.D | AR1660CCV6 | | 1 | NO MANUAL INTEGRATION |
| 2312 | 02072331ECD7.D | BLA0555-BLK1 | | 1 | NO MANUAL INTEGRATION |
| 2333 | 02072332ECD7.D | BLA0555-BS1 | | 1 | NO MANUAL INTEGRATION |
| 2354 | 02072333ECD7.D | BLA0555-BSD1 | | 1 | NO MANUAL INTEGRATION |
| 0015 | 02072334ECD7.D | BLA0555-SRM1 | | 1 | NO MANUAL INTEGRATION |
| 0036 | 02072335ECD7.D | 23A0158-01 | | 1 | NO MANUAL INTEGRATION |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230207.b

| Time | Filename | LabID | ClientId | DF | Manually Integrated Compounds |
|------|----------------|--------------|----------|----|-------------------------------|
| 0057 | 02072336ECD7.D | 23A0158-02 | | 1 | NO MANUAL INTEGRATION |
| 0118 | 02072337ECD7.D | 23A0158-03 | | 1 | NO MANUAL INTEGRATION |
| 0139 | 02072338ECD7.D | 23A0158-04 | | 1 | NO MANUAL INTEGRATION |
| 0200 | 02072339ECD7.D | 23A0158-05 | | 1 | NO MANUAL INTEGRATION |
| 0221 | 02072340ECD7.D | 23A0158-06 | | 1 | NO MANUAL INTEGRATION |
| 0242 | 02072341ECD7.D | 23A0158-07 | | 1 | NO MANUAL INTEGRATION |
| 0303 | 02072342ECD7.D | 23A0158-08 | | 1 | NO MANUAL INTEGRATION |
| 0324 | 02072343ECD7.D | BLA0555-MS1 | | 1 | NO MANUAL INTEGRATION |
| 0345 | 02072344ECD7.D | BLA0555-MSD1 | | 1 | NO MANUAL INTEGRATION |
| 0406 | 02072345ECD7.D | 23A0158-09 | | 1 | NO MANUAL INTEGRATION |
| 0427 | 02072346ECD7.D | AR1248CCV7 | | 1 | NO MANUAL INTEGRATION |
| 0448 | 02072347ECD7.D | AR1660CCV8 | | 1 | NO MANUAL INTEGRATION |
| 0509 | 02072348ECD7.D | 23A0158-10 | | 1 | NO MANUAL INTEGRATION |
| 0530 | 02072349ECD7.D | 23A0158-11 | | 1 | Aroclor-1254, Aroclor-1260, |
| 0551 | 02072350ECD7.D | 23A0158-12 | | 1 | Aroclor-1260, |
| 0612 | 02072351ECD7.D | 23A0158-13 | | 1 | Aroclor-1254, Aroclor-1260, |
| 0633 | 02072352ECD7.D | 23A0158-14 | | 1 | Aroclor-1254, |
| 0654 | 02072353ECD7.D | 23A0158-15 | | 1 | Aroclor-1254, Aroclor-1260, |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230207.b

| Time | Filename | LabID | ClientId | DF | Manually Integrated Compounds |
|------|----------------|---------------|----------|----|--|
| 0715 | 02072354ECD7.D | 23A0158-16 | | 1 | NO MANUAL INTEGRATION |
| 0736 | 02072355ECD7.D | 23A0196-01 | | 1 | Aroclor-1254, Aroclor-1260, IS-HBBP, Decachlorobiphenyl, |
| 0757 | 02072356ECD7.D | 23A0196-01RE1 | | 5 | NO MANUAL INTEGRATION |
| 0818 | 02072357ECD7.D | AR1242CCV9 | | 1 | NO MANUAL INTEGRATION |
| 0839 | 02072358ECD7.D | AR1660CCVA | | 1 | NO MANUAL INTEGRATION |
| 1241 | 02072301ECD7.D | DDTS | | 1 | NO MANUAL INTEGRATION |
| 1302 | 02072302ECD7.D | AR1254ICV1 | | 1 | NO MANUAL INTEGRATION |
| 1323 | 02072303ECD7.D | AR1660ICV2 | | 1 | NO MANUAL INTEGRATION |
| 1344 | 02072304ECD7.D | 23A0180-06RE1 | | 5 | Aroclor-1248 [2C], |
| 1405 | 02072305ECD7.D | AR1248CCV1 | | 1 | NO MANUAL INTEGRATION |
| 1426 | 02072306ECD7.D | AR1660CCV2 | | 1 | NO MANUAL INTEGRATION |
| 1447 | 02072307ECD7.D | BLB0625-BLK1 | | 1 | NO MANUAL INTEGRATION |
| 1508 | 02072308ECD7.D | BLB0625-BS1 | | 1 | NO MANUAL INTEGRATION |
| 1529 | 02072309ECD7.D | BLB0625-BSD1 | | 1 | NO MANUAL INTEGRATION |
| 1550 | 02072310ECD7.D | BLB0625-SRM1 | | 1 | NO MANUAL INTEGRATION |
| 1611 | 02072311ECD7.D | 23A0206-01 | | 1 | Aroclor-1248 [2C], |
| 1632 | 02072312ECD7.D | 23A0206-02 | | 1 | Aroclor-1248 [2C], |
| 1653 | 02072313ECD7.D | 23A0206-03 | | 1 | Aroclor-1248 [2C], |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230207.b\230207.b

| Time | Filename | LabID | ClientId | DF | Manually Integrated Compounds |
|------|----------------|--------------|----------|----|-------------------------------|
| 1714 | 02072314ECD7.D | 23A0206-04 | | 1 | Aroclor-1248 [2C], |
| 1735 | 02072315ECD7.D | 23A0206-05 | | 1 | Aroclor-1248 [2C], |
| 1757 | 02072316ECD7.D | 23A0206-06 | | 1 | Aroclor-1248 [2C], |
| 1818 | 02072317ECD7.D | 23A0206-07 | | 1 | Aroclor-1248 [2C], |
| 1839 | 02072318ECD7.D | BLB0625-MS1 | | 1 | NO MANUAL INTEGRATION |
| 1900 | 02072319ECD7.D | BLB0625-MSD1 | | 1 | NO MANUAL INTEGRATION |
| 1921 | 02072320ECD7.D | AR1242CCV3 | | 1 | NO MANUAL INTEGRATION |
| 1942 | 02072321ECD7.D | AR1660CCV4 | | 1 | NO MANUAL INTEGRATION |
| 2003 | 02072322ECD7.D | 23A0206-08 | | 1 | NO MANUAL INTEGRATION |
| 2024 | 02072323ECD7.D | 23A0206-09 | | 1 | NO MANUAL INTEGRATION |
| 2045 | 02072324ECD7.D | 23A0206-10 | | 1 | NO MANUAL INTEGRATION |
| 2106 | 02072325ECD7.D | 23A0206-11 | | 1 | NO MANUAL INTEGRATION |
| 2127 | 02072326ECD7.D | 23A0206-12 | | 1 | NO MANUAL INTEGRATION |
| 2148 | 02072327ECD7.D | 23A0206-13 | | 1 | NO MANUAL INTEGRATION |
| 2209 | 02072328ECD7.D | 23A0206-14 | | 1 | NO MANUAL INTEGRATION |
| 2230 | 02072329ECD7.D | AR1254CCV5 | | 1 | NO MANUAL INTEGRATION |
| 2251 | 02072330ECD7.D | AR1660CCV6 | | 1 | NO MANUAL INTEGRATION |
| 2312 | 02072331ECD7.D | BLA0555-BLK1 | | 1 | NO MANUAL INTEGRATION |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230207.b\230207.b

| Time | Filename | LabID | ClientId | DF | Manually Integrated Compounds |
|------|----------------|--------------|----------|----|-------------------------------|
| 2333 | 02072332ECD7.D | BLA0555-BS1 | | 1 | NO MANUAL INTEGRATION |
| 2354 | 02072333ECD7.D | BLA0555-BSD1 | | 1 | NO MANUAL INTEGRATION |
| 0015 | 02072334ECD7.D | BLA0555-SRM1 | | 1 | NO MANUAL INTEGRATION |
| 0036 | 02072335ECD7.D | 23A0158-01 | | 1 | NO MANUAL INTEGRATION |
| 0057 | 02072336ECD7.D | 23A0158-02 | | 1 | NO MANUAL INTEGRATION |
| 0118 | 02072337ECD7.D | 23A0158-03 | | 1 | NO MANUAL INTEGRATION |
| 0139 | 02072338ECD7.D | 23A0158-04 | | 1 | NO MANUAL INTEGRATION |
| 0200 | 02072339ECD7.D | 23A0158-05 | | 1 | NO MANUAL INTEGRATION |
| 0221 | 02072340ECD7.D | 23A0158-06 | | 1 | NO MANUAL INTEGRATION |
| 0242 | 02072341ECD7.D | 23A0158-07 | | 1 | NO MANUAL INTEGRATION |
| 0303 | 02072342ECD7.D | 23A0158-08 | | 1 | NO MANUAL INTEGRATION |
| 0324 | 02072343ECD7.D | BLA0555-MS1 | | 1 | NO MANUAL INTEGRATION |
| 0345 | 02072344ECD7.D | BLA0555-MSD1 | | 1 | NO MANUAL INTEGRATION |
| 0406 | 02072345ECD7.D | 23A0158-09 | | 1 | NO MANUAL INTEGRATION |
| 0427 | 02072346ECD7.D | AR1248CCV7 | | 1 | NO MANUAL INTEGRATION |
| 0448 | 02072347ECD7.D | AR1660CCV8 | | 1 | NO MANUAL INTEGRATION |
| 0509 | 02072348ECD7.D | 23A0158-10 | | 1 | NO MANUAL INTEGRATION |
| 0530 | 02072349ECD7.D | 23A0158-11 | | 1 | Aroclor-1248 [2C], |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230207.b\230207.b

| Time | Filename | LabID | ClientId | DF | Manually Integrated Compounds |
|------|----------------|---------------|----------|----|-------------------------------|
| 0551 | 02072350ECD7.D | 23A0158-12 | | 1 | Aroclor-1248 [2C], |
| 0612 | 02072351ECD7.D | 23A0158-13 | | 1 | Aroclor-1248 [2C], |
| 0633 | 02072352ECD7.D | 23A0158-14 | | 1 | Aroclor-1248 [2C], |
| 0654 | 02072353ECD7.D | 23A0158-15 | | 1 | Aroclor-1248 [2C], |
| 0715 | 02072354ECD7.D | 23A0158-16 | | 1 | NO MANUAL INTEGRATION |
| 0736 | 02072355ECD7.D | 23A0196-01 | | 1 | NO MANUAL INTEGRATION |
| 0757 | 02072356ECD7.D | 23A0196-01RE1 | | 5 | NO MANUAL INTEGRATION |
| 0818 | 02072357ECD7.D | AR1242CCV9 | | 1 | NO MANUAL INTEGRATION |
| 0839 | 02072358ECD7.D | AR1660CCVA | | 1 | NO MANUAL INTEGRATION |

Security Status Report

Date: 08-Feb-2023 12:17

| | | |
|----------------|-------------|-----------------------------|
| 02072301ECD7.D | Data Locked | richardl, 08-Feb-2023 12:16 |
| 02072302ECD7.D | Data Locked | richardl, 08-Feb-2023 12:16 |
| 02072303ECD7.D | Data Locked | richardl, 08-Feb-2023 12:16 |
| 02072304ECD7.D | Data Locked | richardl, 08-Feb-2023 12:16 |
| 02072305ECD7.D | Data Locked | richardl, 08-Feb-2023 12:16 |
| 02072306ECD7.D | Data Locked | richardl, 08-Feb-2023 12:16 |
| 02072307ECD7.D | Data Locked | richardl, 08-Feb-2023 12:16 |
| 02072308ECD7.D | Data Locked | richardl, 08-Feb-2023 12:16 |
| 02072309ECD7.D | Data Locked | richardl, 08-Feb-2023 12:16 |
| 02072310ECD7.D | Data Locked | richardl, 08-Feb-2023 12:16 |
| 02072311ECD7.D | Data Locked | richardl, 08-Feb-2023 12:16 |
| 02072312ECD7.D | Data Locked | richardl, 08-Feb-2023 12:16 |
| 02072313ECD7.D | Data Locked | richardl, 08-Feb-2023 12:16 |
| 02072314ECD7.D | Data Locked | richardl, 08-Feb-2023 12:16 |
| 02072315ECD7.D | Data Locked | richardl, 08-Feb-2023 12:16 |
| 02072316ECD7.D | Data Locked | richardl, 08-Feb-2023 12:16 |
| 02072317ECD7.D | Data Locked | richardl, 08-Feb-2023 12:16 |
| 02072318ECD7.D | Data Locked | richardl, 08-Feb-2023 12:16 |
| 02072319ECD7.D | Data Locked | richardl, 08-Feb-2023 12:16 |
| 02072320ECD7.D | Data Locked | richardl, 08-Feb-2023 12:16 |
| 02072321ECD7.D | Data Locked | richardl, 08-Feb-2023 12:16 |
| 02072322ECD7.D | Data Locked | richardl, 08-Feb-2023 12:16 |
| 02072323ECD7.D | Data Locked | richardl, 08-Feb-2023 12:16 |
| 02072324ECD7.D | Data Locked | richardl, 08-Feb-2023 12:16 |
| 02072325ECD7.D | Data Locked | richardl, 08-Feb-2023 12:16 |
| 02072326ECD7.D | Data Locked | richardl, 08-Feb-2023 12:16 |
| 02072327ECD7.D | Data Locked | richardl, 08-Feb-2023 12:16 |
| 02072328ECD7.D | Data Locked | richardl, 08-Feb-2023 12:16 |
| 02072329ECD7.D | Data Locked | richardl, 08-Feb-2023 12:16 |
| 02072330ECD7.D | Data Locked | richardl, 08-Feb-2023 12:16 |
| 02072331ECD7.D | Data Locked | richardl, 08-Feb-2023 12:16 |
| 02072332ECD7.D | Data Locked | richardl, 08-Feb-2023 12:16 |
| 02072333ECD7.D | Data Locked | richardl, 08-Feb-2023 12:16 |
| 02072334ECD7.D | Data Locked | richardl, 08-Feb-2023 12:16 |
| 02072335ECD7.D | Data Locked | richardl, 08-Feb-2023 12:16 |
| 02072336ECD7.D | Data Locked | richardl, 08-Feb-2023 12:16 |
| 02072337ECD7.D | Data Locked | richardl, 08-Feb-2023 12:16 |
| 02072338ECD7.D | Data Locked | richardl, 08-Feb-2023 12:16 |
| 02072339ECD7.D | Data Locked | richardl, 08-Feb-2023 12:16 |
| 02072340ECD7.D | Data Locked | richardl, 08-Feb-2023 12:16 |
| 02072341ECD7.D | Data Locked | richardl, 08-Feb-2023 12:16 |
| 02072342ECD7.D | Data Locked | richardl, 08-Feb-2023 12:16 |
| 02072343ECD7.D | Data Locked | richardl, 08-Feb-2023 12:16 |
| 02072344ECD7.D | Data Locked | richardl, 08-Feb-2023 12:16 |

| | | |
|----------------|-------------|-----------------------------|
| 02072345ECD7.D | Data Locked | richardl, 08-Feb-2023 12:16 |
| 02072346ECD7.D | Data Locked | richardl, 08-Feb-2023 12:16 |
| 02072347ECD7.D | Data Locked | richardl, 08-Feb-2023 12:16 |
| 02072348ECD7.D | Data Locked | richardl, 08-Feb-2023 12:16 |
| 02072349ECD7.D | Data Locked | richardl, 08-Feb-2023 12:16 |
| 02072350ECD7.D | Data Locked | richardl, 08-Feb-2023 12:16 |
| 02072351ECD7.D | Data Locked | richardl, 08-Feb-2023 12:16 |
| 02072352ECD7.D | Data Locked | richardl, 08-Feb-2023 12:16 |
| 02072353ECD7.D | Data Locked | richardl, 08-Feb-2023 12:16 |
| 02072354ECD7.D | Data Locked | richardl, 08-Feb-2023 12:16 |
| 02072355ECD7.D | Data Locked | richardl, 08-Feb-2023 12:16 |
| 02072356ECD7.D | Data Locked | richardl, 08-Feb-2023 12:16 |
| 02072357ECD7.D | Data Locked | richardl, 08-Feb-2023 12:16 |
| 02072358ECD7.D | Data Locked | richardl, 08-Feb-2023 12:16 |



SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory: Analytical Resources, LLC
Client: Anchor OEA, LLC
Sequence: SLA0281
Calibration: GA00061

SDG/WO: 23A0180
Project: AOC5 MR Phase 1
Instrument: ECD7
Calibration Date: 01/24/2023

| Surrogate Compound | Spike Level ug/L | % Recovery | Recovery Limits | RT | Calibration Mean RT | RT Diff | RT Diff Limit | Q |
|--|------------------|------------|-----------------|--------|---------------------|---------|---------------|---|
| SLA0281-SCV1 (Solid) Lab File ID: 01242324ECD7.D Analyzed: 01/24/23 19:51 | | | | | | | | |
| Decachlorobiphenyl | 40.000 | 94.9 | 80 - 120 | 13.891 | 13.892 | -0.0010 | N/A | |
| Tetrachlorometaxylene | 40.000 | 93.8 | 80 - 120 | 5.808 | 5.808667 | -0.0007 | N/A | |
| Decachlorobiphenyl [2C] | 40.000 | 101 | 80 - 120 | 14.12 | 14.12017 | -0.0002 | N/A | |
| Tetrachlorometaxylene [2C] | 40.000 | 93.2 | 80 - 120 | 5.685 | 5.685333 | -0.0003 | N/A | |
| SLA0281-SCV2 (Solid) Lab File ID: 01242325ECD7.D Analyzed: 01/24/23 20:12 | | | | | | | | |
| Decachlorobiphenyl | 40.000 | 96.4 | 80 - 120 | 13.892 | 13.892 | 0.0000 | N/A | |
| Tetrachlorometaxylene | 40.000 | 94.4 | 80 - 120 | 5.808 | 5.808667 | -0.0007 | N/A | |
| Decachlorobiphenyl [2C] | 40.000 | 101 | 80 - 120 | 14.121 | 14.12017 | 0.0008 | N/A | |
| Tetrachlorometaxylene [2C] | 40.000 | 93.4 | 80 - 120 | 5.685 | 5.685333 | -0.0003 | N/A | |
| SLA0281-SCV3 (Solid) Lab File ID: 01242326ECD7.D Analyzed: 01/24/23 20:33 | | | | | | | | |
| Decachlorobiphenyl | 40.000 | 95.7 | 80 - 120 | 13.892 | 13.892 | 0.0000 | N/A | |
| Tetrachlorometaxylene | 40.000 | 91.9 | 80 - 120 | 5.809 | 5.808667 | 0.0003 | N/A | |
| Decachlorobiphenyl [2C] | 40.000 | 98.9 | 80 - 120 | 14.12 | 14.12017 | -0.0002 | N/A | |
| Tetrachlorometaxylene [2C] | 40.000 | 91.4 | 80 - 120 | 5.685 | 5.685333 | -0.0003 | N/A | |
| SLA0281-SCV4 (Solid) Lab File ID: 01242327ECD7.D Analyzed: 01/24/23 20:54 | | | | | | | | |
| Decachlorobiphenyl | 40.000 | 92.7 | 80 - 120 | 13.892 | 13.892 | 0.0000 | N/A | |
| Tetrachlorometaxylene | 40.000 | 91.7 | 80 - 120 | 5.808 | 5.808667 | -0.0007 | N/A | |
| Decachlorobiphenyl [2C] | 40.000 | 98.9 | 80 - 120 | 14.121 | 14.12017 | 0.0008 | N/A | |
| Tetrachlorometaxylene [2C] | 40.000 | 91.6 | 80 - 120 | 5.685 | 5.685333 | -0.0003 | N/A | |
| SLA0281-SCV5 (Solid) Lab File ID: 01242328ECD7.D Analyzed: 01/24/23 21:15 | | | | | | | | |
| Decachlorobiphenyl | 40.000 | 93.6 | 80 - 120 | 13.89 | 13.892 | -0.0020 | N/A | |
| Tetrachlorometaxylene | 40.000 | 93.2 | 80 - 120 | 5.808 | 5.808667 | -0.0007 | N/A | |
| Decachlorobiphenyl [2C] | 40.000 | 98.7 | 80 - 120 | 14.119 | 14.12017 | -0.0012 | N/A | |
| Tetrachlorometaxylene [2C] | 40.000 | 92.9 | 80 - 120 | 5.685 | 5.685333 | -0.0003 | N/A | |
| SLA0281-SCV6 (Solid) Lab File ID: 01242329ECD7.D Analyzed: 01/24/23 21:36 | | | | | | | | |
| Decachlorobiphenyl | 40.000 | 137 | 80 - 120 | 13.892 | 13.892 | 0.0000 | N/A | |
| Tetrachlorometaxylene | 40.000 | 90.9 | 80 - 120 | 5.809 | 5.808667 | 0.0003 | N/A | |
| Decachlorobiphenyl [2C] | 40.000 | 145 | 80 - 120 | 14.12 | 14.12017 | -0.0002 | N/A | |
| Tetrachlorometaxylene [2C] | 40.000 | 90.8 | 80 - 120 | 5.686 | 5.685333 | 0.0007 | N/A | |



SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLB0084
Calibration: GA00061

SDG/WO: 23A0180
Project: AOC5 MR Phase 1
Instrument: ECD7
Calibration Date: 01/24/2023

| Surrogate Compound | Spike Level ug/L | % Recovery | Recovery Limits | RT | Calibration Mean RT | RT Diff | RT Diff Limit | Q |
|--|------------------|------------|-----------------|--------|---------------------|---------|---------------|---|
| SLB0084-ICV1 (Solid) Lab File ID: 02042302ECD7.D Analyzed: 02/04/23 16:16 | | | | | | | | |
| Decachlorobiphenyl | 40.000 | 101 | 80 - 120 | 13.89 | 13.892 | -0.0020 | N/A | |
| Tetrachlorometaxylene | 40.000 | 100 | 80 - 120 | 5.806 | 5.808667 | -0.0027 | N/A | |
| Decachlorobiphenyl [2C] | 40.000 | 98.0 | 80 - 120 | 14.116 | 14.12017 | -0.0042 | N/A | |
| Tetrachlorometaxylene [2C] | 40.000 | 99.0 | 80 - 120 | 5.682 | 5.685333 | -0.0033 | N/A | |
| SLB0084-ICV2 (Solid) Lab File ID: 02042303ECD7.D Analyzed: 02/04/23 16:37 | | | | | | | | |
| Decachlorobiphenyl | 40.000 | 98.3 | 80 - 120 | 13.888 | 13.892 | -0.0040 | N/A | |
| Tetrachlorometaxylene | 40.000 | 108 | 80 - 120 | 5.806 | 5.808667 | -0.0027 | N/A | |
| Decachlorobiphenyl [2C] | 40.000 | 104 | 80 - 120 | 14.116 | 14.12017 | -0.0042 | N/A | |
| Tetrachlorometaxylene [2C] | 40.000 | 105 | 80 - 120 | 5.683 | 5.685333 | -0.0023 | N/A | |
| SLB0084-CCV1 (Solid) Lab File ID: 02042313ECD7.D Analyzed: 02/04/23 20:08 | | | | | | | | |
| Decachlorobiphenyl | 40.000 | 89.8 | 80 - 120 | 13.888 | 13.892 | -0.0040 | N/A | |
| Tetrachlorometaxylene | 40.000 | 103 | 80 - 120 | 5.806 | 5.808667 | -0.0027 | N/A | |
| Decachlorobiphenyl [2C] | 40.000 | 101 | 80 - 120 | 14.115 | 14.12017 | -0.0052 | N/A | |
| Tetrachlorometaxylene [2C] | 40.000 | 102 | 80 - 120 | 5.682 | 5.685333 | -0.0033 | N/A | |
| SLB0084-CCV2 (Solid) Lab File ID: 02042314ECD7.D Analyzed: 02/04/23 20:29 | | | | | | | | |
| Decachlorobiphenyl | 40.000 | 96.5 | 80 - 120 | 13.888 | 13.892 | -0.0040 | N/A | |
| Tetrachlorometaxylene | 40.000 | 108 | 80 - 120 | 5.806 | 5.808667 | -0.0027 | N/A | |
| Decachlorobiphenyl [2C] | 40.000 | 104 | 80 - 120 | 14.116 | 14.12017 | -0.0042 | N/A | |
| Tetrachlorometaxylene [2C] | 40.000 | 106 | 80 - 120 | 5.683 | 5.685333 | -0.0023 | N/A | |
| SLB0084-CCV3 (Solid) Lab File ID: 02042329ECD7.D Analyzed: 02/05/23 01:45 | | | | | | | | |
| Decachlorobiphenyl | 40.000 | 86.3 | 80 - 120 | 13.889 | 13.892 | -0.0030 | N/A | |
| Tetrachlorometaxylene | 40.000 | 127 | 80 - 120 | 5.806 | 5.808667 | -0.0027 | N/A | * |
| Decachlorobiphenyl [2C] | 40.000 | 94.5 | 80 - 120 | 14.115 | 14.12017 | -0.0052 | N/A | |
| Tetrachlorometaxylene [2C] | 40.000 | 125 | 80 - 120 | 5.683 | 5.685333 | -0.0023 | N/A | * |
| SLB0084-CCV4 (Solid) Lab File ID: 02042330ECD7.D Analyzed: 02/05/23 02:06 | | | | | | | | |
| Decachlorobiphenyl | 40.000 | 96.0 | 80 - 120 | 13.888 | 13.892 | -0.0040 | N/A | |
| Tetrachlorometaxylene | 40.000 | 108 | 80 - 120 | 5.807 | 5.808667 | -0.0017 | N/A | |
| Decachlorobiphenyl [2C] | 40.000 | 101 | 80 - 120 | 14.115 | 14.12017 | -0.0052 | N/A | |
| Tetrachlorometaxylene [2C] | 40.000 | 106 | 80 - 120 | 5.684 | 5.685333 | -0.0013 | N/A | |



SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLB0084
Calibration: GA00061

SDG/WO: 23A0180
Project: AOC5 MR Phase 1
Instrument: ECD7
Calibration Date: 01/24/2023

| Surrogate Compound | Spike Level ug/kg dry | % Recovery | Recovery Limits | RT | Calibration Mean RT | RT Diff | RT Diff Limit | Q |
|--|-----------------------|------------|-----------------|--------|---------------------|---------|---------------|---|
| 23A0180-04 (Solid) Lab File ID: 02042342ECD7.D Analyzed: 02/05/23 06:19 | | | | | | | | |
| Decachlorobiphenyl | 7.9970 | 72.4 | 40 - 126 | 13.883 | 13.892 | -0.0090 | N/A | |
| Tetrachlorometaxylene | 7.9970 | 60.8 | 44 - 120 | 5.803 | 5.808667 | -0.0057 | N/A | |
| Decachlorobiphenyl [2C] | 7.9970 | 89.4 | 40 - 126 | 14.112 | 14.12017 | -0.0082 | N/A | |
| Tetrachlorometaxylene [2C] | 7.9970 | 69.3 | 44 - 120 | 5.678 | 5.685333 | -0.0073 | N/A | |
| 23A0180-05 (Solid) Lab File ID: 02042343ECD7.D Analyzed: 02/05/23 06:41 | | | | | | | | |
| Decachlorobiphenyl | 7.9936 | 71.6 | 40 - 126 | 13.884 | 13.892 | -0.0080 | N/A | |
| Tetrachlorometaxylene | 7.9936 | 59.8 | 44 - 120 | 5.804 | 5.808667 | -0.0047 | N/A | |
| Decachlorobiphenyl [2C] | 7.9936 | 74.1 | 40 - 126 | 14.111 | 14.12017 | -0.0092 | N/A | |
| Tetrachlorometaxylene [2C] | 7.9936 | 70.8 | 44 - 120 | 5.681 | 5.685333 | -0.0043 | N/A | |
| SLB0084-CCV5 (Solid) Lab File ID: 02042345ECD7.D Analyzed: 02/05/23 07:23 | | | | | | | | |
| Decachlorobiphenyl | 40.000 | 86.3 | 80 - 120 | 13.889 | 13.892 | -0.0030 | N/A | |
| Tetrachlorometaxylene | 40.000 | 99.5 | 80 - 120 | 5.805 | 5.808667 | -0.0037 | N/A | |
| Decachlorobiphenyl [2C] | 40.000 | 99.8 | 80 - 120 | 14.115 | 14.12017 | -0.0052 | N/A | |
| Tetrachlorometaxylene [2C] | 40.000 | 101 | 80 - 120 | 5.682 | 5.685333 | -0.0033 | N/A | |
| SLB0084-CCV6 (Solid) Lab File ID: 02042346ECD7.D Analyzed: 02/05/23 07:44 | | | | | | | | |
| Decachlorobiphenyl | 40.000 | 98.5 | 80 - 120 | 13.888 | 13.892 | -0.0040 | N/A | |
| Tetrachlorometaxylene | 40.000 | 108 | 80 - 120 | 5.806 | 5.808667 | -0.0027 | N/A | |
| Decachlorobiphenyl [2C] | 40.000 | 102 | 80 - 120 | 14.115 | 14.12017 | -0.0052 | N/A | |
| Tetrachlorometaxylene [2C] | 40.000 | 107 | 80 - 120 | 5.682 | 5.685333 | -0.0033 | N/A | |
| 23A0180-09 (Solid) Lab File ID: 02042349ECD7.D Analyzed: 02/05/23 08:47 | | | | | | | | |
| Decachlorobiphenyl | 7.9845 | 72.1 | 40 - 126 | 13.885 | 13.892 | -0.0070 | N/A | |
| Tetrachlorometaxylene | 7.9845 | 65.6 | 44 - 120 | 5.803 | 5.808667 | -0.0057 | N/A | |
| Decachlorobiphenyl [2C] | 7.9845 | 72.8 | 40 - 126 | 14.111 | 14.12017 | -0.0092 | N/A | |
| Tetrachlorometaxylene [2C] | 7.9845 | 75.0 | 44 - 120 | 5.678 | 5.685333 | -0.0073 | N/A | |
| 23A0180-13 (Solid) Lab File ID: 02042353ECD7.D Analyzed: 02/05/23 10:11 | | | | | | | | |
| Decachlorobiphenyl | 8.0002 | 71.4 | 40 - 126 | 13.883 | 13.892 | -0.0090 | N/A | |
| Tetrachlorometaxylene | 8.0002 | 63.0 | 44 - 120 | 5.804 | 5.808667 | -0.0047 | N/A | |
| Decachlorobiphenyl [2C] | 8.0002 | 70.9 | 40 - 126 | 14.111 | 14.12017 | -0.0092 | N/A | |
| Tetrachlorometaxylene [2C] | 8.0002 | 70.6 | 44 - 120 | 5.68 | 5.685333 | -0.0053 | N/A | |



SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLB0086
Calibration: GA00061

SDG/WO: 23A0180
Project: AOC5 MR Phase 1
Instrument: ECD7
Calibration Date: 01/24/2023

| Surrogate Compound | Spike Level ug/L | % Recovery | Recovery Limits | RT | Calibration Mean RT | RT Diff | RT Diff Limit | Q |
|--|------------------|------------|-----------------|--------|---------------------|---------|---------------|---|
| SLB0086-ICV1 (Solid) Lab File ID: 02062302ECD7.D Analyzed: 02/06/23 09:54 | | | | | | | | |
| Decachlorobiphenyl | 40.000 | 103 | 80 - 120 | 13.889 | 13.892 | -0.0030 | N/A | |
| Tetrachlorometaxylene | 40.000 | 102 | 80 - 120 | 5.808 | 5.808667 | -0.0007 | N/A | |
| Decachlorobiphenyl [2C] | 40.000 | 98.0 | 80 - 120 | 14.116 | 14.12017 | -0.0042 | N/A | |
| Tetrachlorometaxylene [2C] | 40.000 | 102 | 80 - 120 | 5.684 | 5.685333 | -0.0013 | N/A | |
| SLB0086-ICV2 (Solid) Lab File ID: 02062303ECD7.D Analyzed: 02/06/23 10:15 | | | | | | | | |
| Decachlorobiphenyl | 40.000 | 98.3 | 80 - 120 | 13.889 | 13.892 | -0.0030 | N/A | |
| Tetrachlorometaxylene | 40.000 | 108 | 80 - 120 | 5.808 | 5.808667 | -0.0007 | N/A | |
| Decachlorobiphenyl [2C] | 40.000 | 102 | 80 - 120 | 14.116 | 14.12017 | -0.0042 | N/A | |
| Tetrachlorometaxylene [2C] | 40.000 | 107 | 80 - 120 | 5.685 | 5.685333 | -0.0003 | N/A | |
| SLB0086-CCV1 (Solid) Lab File ID: 02062313ECD7.D Analyzed: 02/06/23 13:46 | | | | | | | | |
| Decachlorobiphenyl | 40.000 | 91.5 | 80 - 120 | 13.889 | 13.892 | -0.0030 | N/A | |
| Tetrachlorometaxylene | 40.000 | 102 | 80 - 120 | 5.807 | 5.808667 | -0.0017 | N/A | |
| Decachlorobiphenyl [2C] | 40.000 | 96.0 | 80 - 120 | 14.117 | 14.12017 | -0.0032 | N/A | |
| Tetrachlorometaxylene [2C] | 40.000 | 102 | 80 - 120 | 5.685 | 5.685333 | -0.0003 | N/A | |
| SLB0086-CCV2 (Solid) Lab File ID: 02062314ECD7.D Analyzed: 02/06/23 14:07 | | | | | | | | |
| Decachlorobiphenyl | 40.000 | 95.5 | 80 - 120 | 13.889 | 13.892 | -0.0030 | N/A | |
| Tetrachlorometaxylene | 40.000 | 107 | 80 - 120 | 5.808 | 5.808667 | -0.0007 | N/A | |
| Decachlorobiphenyl [2C] | 40.000 | 105 | 80 - 120 | 14.117 | 14.12017 | -0.0032 | N/A | |
| Tetrachlorometaxylene [2C] | 40.000 | 107 | 80 - 120 | 5.685 | 5.685333 | -0.0003 | N/A | |
| 23A0180-07 (Solid) Lab File ID: 02062321ECD7.D Analyzed: 02/06/23 16:34 | | | | | | | | |
| Decachlorobiphenyl | 7.9986 | 78.4 | 40 - 126 | 13.884 | 13.892 | -0.0080 | N/A | |
| Tetrachlorometaxylene | 7.9986 | 69.1 | 44 - 120 | 5.805 | 5.808667 | -0.0037 | N/A | |
| Decachlorobiphenyl [2C] | 7.9986 | 79.4 | 40 - 126 | 14.113 | 14.12017 | -0.0072 | N/A | |
| Tetrachlorometaxylene [2C] | 7.9986 | 81.9 | 44 - 120 | 5.682 | 5.685333 | -0.0033 | N/A | |
| SLB0086-CCV3 (Solid) Lab File ID: 02062322ECD7.D Analyzed: 02/06/23 16:55 | | | | | | | | |
| Decachlorobiphenyl | 40.000 | 89.0 | 80 - 120 | 13.887 | 13.892 | -0.0050 | N/A | |
| Tetrachlorometaxylene | 40.000 | 128 | 80 - 120 | 5.807 | 5.808667 | -0.0017 | N/A | * |
| Decachlorobiphenyl [2C] | 40.000 | 95.5 | 80 - 120 | 14.117 | 14.12017 | -0.0032 | N/A | |
| Tetrachlorometaxylene [2C] | 40.000 | 128 | 80 - 120 | 5.685 | 5.685333 | -0.0003 | N/A | * |



SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLB0086
Calibration: GA00061

SDG/WO: 23A0180
Project: AOC5 MR Phase 1
Instrument: ECD7
Calibration Date: 01/24/2023

| Surrogate Compound | Spike Level ug/L | % Recovery | Recovery Limits | RT | Calibration Mean RT | RT Diff | RT Diff Limit | Q |
|--|------------------|------------|-----------------|--------|---------------------|---------|---------------|---|
| SLB0086-CCV4 (Solid) Lab File ID: 02062323ECD7.D Analyzed: 02/06/23 17:16 | | | | | | | | |
| Decachlorobiphenyl | 40.000 | 94.3 | 80 - 120 | 13.887 | 13.892 | -0.0050 | N/A | |
| Tetrachlorometaxylene | 40.000 | 109 | 80 - 120 | 5.807 | 5.808667 | -0.0017 | N/A | |
| Decachlorobiphenyl [2C] | 40.000 | 102 | 80 - 120 | 14.116 | 14.12017 | -0.0042 | N/A | |
| Tetrachlorometaxylene [2C] | 40.000 | 108 | 80 - 120 | 5.684 | 5.685333 | -0.0013 | N/A | |
| BLA0559-BLK1 (Solid) Lab File ID: 02062324ECD7.D Analyzed: 02/06/23 17:37 | | | | | | | | |
| Decachlorobiphenyl | 8.0000 | 77.1 | 40 - 126 | 13.888 | 13.892 | -0.0040 | N/A | |
| Tetrachlorometaxylene | 8.0000 | 77.5 | 44 - 120 | 5.807 | 5.808667 | -0.0017 | N/A | |
| Decachlorobiphenyl [2C] | 8.0000 | 78.8 | 40 - 126 | 14.116 | 14.12017 | -0.0042 | N/A | |
| Tetrachlorometaxylene [2C] | 8.0000 | 76.9 | 44 - 120 | 5.684 | 5.685333 | -0.0013 | N/A | |
| BLA0559-BS1 (Solid) Lab File ID: 02062325ECD7.D Analyzed: 02/06/23 17:58 | | | | | | | | |
| Decachlorobiphenyl | 8.0000 | 80.8 | 40 - 126 | 13.886 | 13.892 | -0.0060 | N/A | |
| Tetrachlorometaxylene | 8.0000 | 82.6 | 44 - 120 | 5.806 | 5.808667 | -0.0027 | N/A | |
| Decachlorobiphenyl [2C] | 8.0000 | 84.1 | 40 - 126 | 14.116 | 14.12017 | -0.0042 | N/A | |
| Tetrachlorometaxylene [2C] | 8.0000 | 80.0 | 44 - 120 | 5.684 | 5.685333 | -0.0013 | N/A | |
| BLA0559-BSD1 (Solid) Lab File ID: 02062326ECD7.D Analyzed: 02/06/23 18:19 | | | | | | | | |
| Decachlorobiphenyl | 8.0000 | 79.5 | 40 - 126 | 13.888 | 13.892 | -0.0040 | N/A | |
| Tetrachlorometaxylene | 8.0000 | 85.0 | 44 - 120 | 5.807 | 5.808667 | -0.0017 | N/A | |
| Decachlorobiphenyl [2C] | 8.0000 | 82.1 | 40 - 126 | 14.116 | 14.12017 | -0.0042 | N/A | |
| Tetrachlorometaxylene [2C] | 8.0000 | 80.8 | 44 - 120 | 5.684 | 5.685333 | -0.0013 | N/A | |
| BLA0559-SRM1 (Solid) Lab File ID: 02062327ECD7.D Analyzed: 02/06/23 18:40 | | | | | | | | |
| Decachlorobiphenyl | 40.000 | 76.6 | 40 - 126 | 13.885 | 13.892 | -0.0070 | N/A | |
| Tetrachlorometaxylene | 40.000 | 78.7 | 44 - 120 | 5.807 | 5.808667 | -0.0017 | N/A | |
| Decachlorobiphenyl [2C] | 40.000 | 72.5 | 40 - 126 | 14.113 | 14.12017 | -0.0072 | N/A | |
| Tetrachlorometaxylene [2C] | 40.000 | 85.7 | 44 - 120 | 5.684 | 5.685333 | -0.0013 | N/A | |
| 23A0180-01 (Solid) Lab File ID: 02062328ECD7.D Analyzed: 02/06/23 19:01 | | | | | | | | |
| Decachlorobiphenyl | 5.6682 | 72.0 | 40 - 126 | 13.884 | 13.892 | -0.0080 | N/A | |
| Tetrachlorometaxylene | 5.6682 | 65.1 | 44 - 120 | 5.805 | 5.808667 | -0.0037 | N/A | |
| Decachlorobiphenyl [2C] | 5.6682 | 72.0 | 40 - 126 | 14.112 | 14.12017 | -0.0082 | N/A | |
| Tetrachlorometaxylene [2C] | 5.6682 | 70.7 | 44 - 120 | 5.682 | 5.685333 | -0.0033 | N/A | |



SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLB0086
Calibration: GA00061

SDG/WO: 23A0180
Project: AOC5 MR Phase 1
Instrument: ECD7
Calibration Date: 01/24/2023

| Surrogate Compound | Spike Level ug/kg dry | % Recovery | Recovery Limits | RT | Calibration Mean RT | RT Diff | RT Diff Limit | Q |
|--|-----------------------|------------|-----------------|--------|---------------------|---------|---------------|---|
| 23A0180-02 (Solid) Lab File ID: 02062329ECD7.D Analyzed: 02/06/23 19:22 | | | | | | | | |
| Decachlorobiphenyl | 7.9934 | 82.1 | 40 - 126 | 13.883 | 13.892 | -0.0090 | N/A | |
| Tetrachlorometaxylene | 7.9934 | 65.3 | 44 - 120 | 5.806 | 5.808667 | -0.0027 | N/A | |
| Decachlorobiphenyl [2C] | 7.9934 | 80.4 | 40 - 126 | 14.112 | 14.12017 | -0.0082 | N/A | |
| Tetrachlorometaxylene [2C] | 7.9934 | 69.4 | 44 - 120 | 5.682 | 5.685333 | -0.0033 | N/A | |
| 23A0180-03 (Solid) Lab File ID: 02062330ECD7.D Analyzed: 02/06/23 19:43 | | | | | | | | |
| Decachlorobiphenyl | 7.9986 | 70.5 | 40 - 126 | 13.884 | 13.892 | -0.0080 | N/A | |
| Tetrachlorometaxylene | 7.9986 | 64.8 | 44 - 120 | 5.805 | 5.808667 | -0.0037 | N/A | |
| Decachlorobiphenyl [2C] | 7.9986 | 71.5 | 40 - 126 | 14.112 | 14.12017 | -0.0082 | N/A | |
| Tetrachlorometaxylene [2C] | 7.9986 | 70.4 | 44 - 120 | 5.681 | 5.685333 | -0.0043 | N/A | |
| 23A0180-08 (Solid) Lab File ID: 02062333ECD7.D Analyzed: 02/06/23 20:46 | | | | | | | | |
| Decachlorobiphenyl | 7.9951 | 71.4 | 40 - 126 | 13.883 | 13.892 | -0.0090 | N/A | |
| Tetrachlorometaxylene | 7.9951 | 62.2 | 44 - 120 | 5.805 | 5.808667 | -0.0037 | N/A | |
| Decachlorobiphenyl [2C] | 7.9951 | 70.4 | 40 - 126 | 14.113 | 14.12017 | -0.0072 | N/A | |
| Tetrachlorometaxylene [2C] | 7.9951 | 65.4 | 44 - 120 | 5.681 | 5.685333 | -0.0043 | N/A | |
| 23A0180-10 (Solid) Lab File ID: 02062335ECD7.D Analyzed: 02/06/23 21:28 | | | | | | | | |
| Decachlorobiphenyl | 7.9928 | 72.8 | 40 - 126 | 13.884 | 13.892 | -0.0080 | N/A | |
| Tetrachlorometaxylene | 7.9928 | 65.7 | 44 - 120 | 5.806 | 5.808667 | -0.0027 | N/A | |
| Decachlorobiphenyl [2C] | 7.9928 | 73.5 | 40 - 126 | 14.112 | 14.12017 | -0.0082 | N/A | |
| Tetrachlorometaxylene [2C] | 7.9928 | 71.9 | 44 - 120 | 5.682 | 5.685333 | -0.0033 | N/A | |
| 23A0180-11 (Solid) Lab File ID: 02062336ECD7.D Analyzed: 02/06/23 21:49 | | | | | | | | |
| Decachlorobiphenyl | 7.9785 | 72.7 | 40 - 126 | 13.884 | 13.892 | -0.0080 | N/A | |
| Tetrachlorometaxylene | 7.9785 | 62.1 | 44 - 120 | 5.806 | 5.808667 | -0.0027 | N/A | |
| Decachlorobiphenyl [2C] | 7.9785 | 72.4 | 40 - 126 | 14.113 | 14.12017 | -0.0072 | N/A | |
| Tetrachlorometaxylene [2C] | 7.9785 | 68.2 | 44 - 120 | 5.682 | 5.685333 | -0.0033 | N/A | |
| 23A0180-12 (Solid) Lab File ID: 02062337ECD7.D Analyzed: 02/06/23 22:10 | | | | | | | | |
| Decachlorobiphenyl | 7.9976 | 79.5 | 40 - 126 | 13.883 | 13.892 | -0.0090 | N/A | |
| Tetrachlorometaxylene | 7.9976 | 64.6 | 44 - 120 | 5.805 | 5.808667 | -0.0037 | N/A | |
| Decachlorobiphenyl [2C] | 7.9976 | 77.6 | 40 - 126 | 14.112 | 14.12017 | -0.0082 | N/A | |
| Tetrachlorometaxylene [2C] | 7.9976 | 69.2 | 44 - 120 | 5.682 | 5.685333 | -0.0033 | N/A | |



SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLB0086
Calibration: GA00061

SDG/WO: 23A0180
Project: AOC5 MR Phase 1
Instrument: ECD7
Calibration Date: 01/24/2023

| Surrogate Compound | Spike Level ug/L | % Recovery | Recovery Limits | RT | Calibration Mean RT | RT Diff | RT Diff Limit | Q |
|-----------------------------|------------------|-----------------------------|-----------------|--------|--------------------------|---------|---------------|---|
| SLB0086-CCV5 (Solid) | | Lab File ID: 02062338ECD7.D | | | Analyzed: 02/06/23 22:31 | | | |
| Decachlorobiphenyl | 40.000 | 87.5 | 80 - 120 | 13.888 | 13.892 | -0.0040 | N/A | |
| Tetrachlorometaxylene | 40.000 | 102 | 80 - 120 | 5.807 | 5.808667 | -0.0017 | N/A | |
| Decachlorobiphenyl [2C] | 40.000 | 92.5 | 80 - 120 | 14.116 | 14.12017 | -0.0042 | N/A | |
| Tetrachlorometaxylene [2C] | 40.000 | 102 | 80 - 120 | 5.684 | 5.685333 | -0.0013 | N/A | |
| SLB0086-CCV6 (Solid) | | Lab File ID: 02062339ECD7.D | | | Analyzed: 02/06/23 22:52 | | | |
| Decachlorobiphenyl | 40.000 | 94.8 | 80 - 120 | 13.889 | 13.892 | -0.0030 | N/A | |
| Tetrachlorometaxylene | 40.000 | 109 | 80 - 120 | 5.807 | 5.808667 | -0.0017 | N/A | |
| Decachlorobiphenyl [2C] | 40.000 | 99.8 | 80 - 120 | 14.116 | 14.12017 | -0.0042 | N/A | |
| Tetrachlorometaxylene [2C] | 40.000 | 108 | 80 - 120 | 5.684 | 5.685333 | -0.0013 | N/A | |
| 23A0180-14 (Solid) | | Lab File ID: 02062341ECD7.D | | | Analyzed: 02/06/23 23:34 | | | |
| Decachlorobiphenyl | 7.9966 | 82.9 | 40 - 126 | 13.884 | 13.892 | -0.0080 | N/A | |
| Tetrachlorometaxylene | 7.9966 | 60.2 | 44 - 120 | 5.805 | 5.808667 | -0.0037 | N/A | |
| Decachlorobiphenyl [2C] | 7.9966 | 83.1 | 40 - 126 | 14.113 | 14.12017 | -0.0072 | N/A | |
| Tetrachlorometaxylene [2C] | 7.9966 | 66.1 | 44 - 120 | 5.681 | 5.685333 | -0.0043 | N/A | |
| BLA0559-MS1 (Solid) | | Lab File ID: 02062342ECD7.D | | | Analyzed: 02/06/23 23:55 | | | |
| Decachlorobiphenyl | 8.0007 | 76.4 | 40 - 126 | 13.884 | 13.892 | -0.0080 | N/A | |
| Tetrachlorometaxylene | 8.0007 | 62.8 | 44 - 120 | 5.805 | 5.808667 | -0.0037 | N/A | |
| Decachlorobiphenyl [2C] | 8.0007 | 77.3 | 40 - 126 | 14.112 | 14.12017 | -0.0082 | N/A | |
| Tetrachlorometaxylene [2C] | 8.0007 | 68.7 | 44 - 120 | 5.681 | 5.685333 | -0.0043 | N/A | |
| BLA0559-MSD1 (Solid) | | Lab File ID: 02062343ECD7.D | | | Analyzed: 02/07/23 00:16 | | | |
| Decachlorobiphenyl | 8.0007 | 79.3 | 40 - 126 | 13.884 | 13.892 | -0.0080 | N/A | |
| Tetrachlorometaxylene | 8.0007 | 63.0 | 44 - 120 | 5.805 | 5.808667 | -0.0037 | N/A | |
| Decachlorobiphenyl [2C] | 8.0007 | 79.6 | 40 - 126 | 14.112 | 14.12017 | -0.0082 | N/A | |
| Tetrachlorometaxylene [2C] | 8.0007 | 69.8 | 44 - 120 | 5.681 | 5.685333 | -0.0043 | N/A | |
| 23A0180-15 (Solid) | | Lab File ID: 02062344ECD7.D | | | Analyzed: 02/07/23 00:37 | | | |
| Decachlorobiphenyl | 8.0005 | 81.3 | 40 - 126 | 13.884 | 13.892 | -0.0080 | N/A | |
| Tetrachlorometaxylene | 8.0005 | 64.9 | 44 - 120 | 5.805 | 5.808667 | -0.0037 | N/A | |
| Decachlorobiphenyl [2C] | 8.0005 | 80.6 | 40 - 126 | 14.112 | 14.12017 | -0.0082 | N/A | |
| Tetrachlorometaxylene [2C] | 8.0005 | 70.4 | 44 - 120 | 5.682 | 5.685333 | -0.0033 | N/A | |



SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory: Analytical Resources, LLC

SDG/WO: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Sequence: SLB0086

Instrument: ECD7

Calibration: GA00061

Calibration Date: 01/24/2023

| Surrogate Compound | Spike Level ug/L | % Recovery | Recovery Limits | RT | Calibration Mean RT | RT Diff | RT Diff Limit | Q |
|-----------------------------|------------------|-----------------------------|-----------------|--------|--------------------------|---------|---------------|---|
| SLB0086-CCV7 (Solid) | | Lab File ID: 02062349ECD7.D | | | Analyzed: 02/07/23 02:22 | | | |
| Decachlorobiphenyl | 40.000 | 92.3 | 80 - 120 | 13.889 | 13.892 | -0.0030 | N/A | |
| Tetrachlorometaxylene | 40.000 | 104 | 80 - 120 | 5.808 | 5.808667 | -0.0007 | N/A | |
| Decachlorobiphenyl [2C] | 40.000 | 98.5 | 80 - 120 | 14.117 | 14.12017 | -0.0032 | N/A | |
| Tetrachlorometaxylene [2C] | 40.000 | 104 | 80 - 120 | 5.684 | 5.685333 | -0.0013 | N/A | |
| SLB0086-CCV8 (Solid) | | Lab File ID: 02062350ECD7.D | | | Analyzed: 02/07/23 02:43 | | | |
| Decachlorobiphenyl | 40.000 | 96.3 | 80 - 120 | 13.888 | 13.892 | -0.0040 | N/A | |
| Tetrachlorometaxylene | 40.000 | 107 | 80 - 120 | 5.807 | 5.808667 | -0.0017 | N/A | |
| Decachlorobiphenyl [2C] | 40.000 | 101 | 80 - 120 | 14.116 | 14.12017 | -0.0042 | N/A | |
| Tetrachlorometaxylene [2C] | 40.000 | 107 | 80 - 120 | 5.684 | 5.685333 | -0.0013 | N/A | |



**SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A**

| | | | |
|--------------|----------------------------------|-------------------|------------------------|
| Laboratory: | <u>Analytical Resources, LLC</u> | SDG/WO: | <u>23A0180</u> |
| Client: | <u>Anchor OEA, LLC</u> | Project: | <u>AOC5 MR Phase 1</u> |
| Sequence: | <u>SLB0109</u> | Instrument: | <u>ECD7</u> |
| Calibration: | <u>GA00061</u> | Calibration Date: | <u>01/24/2023</u> |

| Surrogate Compound | Spike Level ug/L | % Recovery | Recovery Limits | RT | Calibration Mean RT | RT Diff | RT Diff Limit | Q |
|-----------------------------|------------------|-----------------------------|-----------------|--------|--------------------------|---------|---------------|---|
| SLB0109-ICV1 (Solid) | | Lab File ID: 02072302ECD7.D | | | Analyzed: 02/07/23 13:02 | | | |
| Decachlorobiphenyl | 40.000 | 102 | 80 - 120 | 13.891 | 13.892 | -0.0010 | N/A | |
| Tetrachlorometaxylene | 40.000 | 101 | 80 - 120 | 5.808 | 5.808667 | -0.0007 | N/A | |
| Decachlorobiphenyl [2C] | 40.000 | 94.3 | 80 - 120 | 14.116 | 14.12017 | -0.0042 | N/A | |
| Tetrachlorometaxylene [2C] | 40.000 | 100 | 80 - 120 | 5.684 | 5.685333 | -0.0013 | N/A | |
| SLB0109-ICV2 (Solid) | | Lab File ID: 02072303ECD7.D | | | Analyzed: 02/07/23 13:23 | | | |
| Decachlorobiphenyl | 40.000 | 94.8 | 80 - 120 | 13.889 | 13.892 | -0.0030 | N/A | |
| Tetrachlorometaxylene | 40.000 | 107 | 80 - 120 | 5.808 | 5.808667 | -0.0007 | N/A | |
| Decachlorobiphenyl [2C] | 40.000 | 99.5 | 80 - 120 | 14.116 | 14.12017 | -0.0042 | N/A | |
| Tetrachlorometaxylene [2C] | 40.000 | 107 | 80 - 120 | 5.685 | 5.685333 | -0.0003 | N/A | |
| 23A0180-06 (Solid) | | Lab File ID: 02072304ECD7.D | | | Analyzed: 02/07/23 13:44 | | | |
| Decachlorobiphenyl | 7.9805 | 83.4 | 40 - 126 | 13.884 | 13.892 | -0.0080 | N/A | |
| Tetrachlorometaxylene | 7.9805 | 78.3 | 44 - 120 | 5.806 | 5.808667 | -0.0027 | N/A | |
| Decachlorobiphenyl [2C] | 7.9805 | 77.5 | 40 - 126 | 14.111 | 14.12017 | -0.0092 | N/A | |
| Tetrachlorometaxylene [2C] | 7.9805 | 88.4 | 44 - 120 | 5.684 | 5.685333 | -0.0013 | N/A | |
| SLB0109-CCV1 (Solid) | | Lab File ID: 02072305ECD7.D | | | Analyzed: 02/07/23 14:05 | | | |
| Decachlorobiphenyl | 40.000 | 88.8 | 80 - 120 | 13.888 | 13.892 | -0.0040 | N/A | |
| Tetrachlorometaxylene | 40.000 | 104 | 80 - 120 | 5.808 | 5.808667 | -0.0007 | N/A | |
| Decachlorobiphenyl [2C] | 40.000 | 95.0 | 80 - 120 | 14.115 | 14.12017 | -0.0052 | N/A | |
| Tetrachlorometaxylene [2C] | 40.000 | 105 | 80 - 120 | 5.685 | 5.685333 | -0.0003 | N/A | |
| SLB0109-CCV2 (Solid) | | Lab File ID: 02072306ECD7.D | | | Analyzed: 02/07/23 14:26 | | | |
| Decachlorobiphenyl | 40.000 | 93.5 | 80 - 120 | 13.888 | 13.892 | -0.0040 | N/A | |
| Tetrachlorometaxylene | 40.000 | 108 | 80 - 120 | 5.807 | 5.808667 | -0.0017 | N/A | |
| Decachlorobiphenyl [2C] | 40.000 | 98.8 | 80 - 120 | 14.115 | 14.12017 | -0.0052 | N/A | |
| Tetrachlorometaxylene [2C] | 40.000 | 106 | 80 - 120 | 5.685 | 5.685333 | -0.0003 | N/A | |
| SLB0109-CCV3 (Solid) | | Lab File ID: 02072320ECD7.D | | | Analyzed: 02/07/23 19:21 | | | |
| Decachlorobiphenyl | 40.000 | 89.3 | 80 - 120 | 13.889 | 13.892 | -0.0030 | N/A | |
| Tetrachlorometaxylene | 40.000 | 127 | 80 - 120 | 5.808 | 5.808667 | -0.0007 | N/A | * |
| Decachlorobiphenyl [2C] | 40.000 | 94.8 | 80 - 120 | 14.116 | 14.12017 | -0.0042 | N/A | |
| Tetrachlorometaxylene [2C] | 40.000 | 127 | 80 - 120 | 5.685 | 5.685333 | -0.0003 | N/A | * |



SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLB0109
Calibration: GA00061

SDG/WO: 23A0180
Project: AOC5 MR Phase 1
Instrument: ECD7
Calibration Date: 01/24/2023

| Surrogate Compound | Spike Level ug/L | % Recovery | Recovery Limits | RT | Calibration Mean RT | RT Diff | RT Diff Limit | Q |
|-----------------------------|------------------|-----------------------------|-----------------|--------|--------------------------|---------|---------------|---|
| SLB0109-CCV4 (Solid) | | Lab File ID: 02072321ECD7.D | | | Analyzed: 02/07/23 19:42 | | | |
| Decachlorobiphenyl | 40.000 | 97.5 | 80 - 120 | 13.888 | 13.892 | -0.0040 | N/A | |
| Tetrachlorometaxylene | 40.000 | 108 | 80 - 120 | 5.807 | 5.808667 | -0.0017 | N/A | |
| Decachlorobiphenyl [2C] | 40.000 | 99.5 | 80 - 120 | 14.115 | 14.12017 | -0.0052 | N/A | |
| Tetrachlorometaxylene [2C] | 40.000 | 106 | 80 - 120 | 5.684 | 5.685333 | -0.0013 | N/A | |
| SLB0109-CCV5 (Solid) | | Lab File ID: 02072329ECD7.D | | | Analyzed: 02/07/23 22:30 | | | |
| Decachlorobiphenyl | 40.000 | 86.3 | 80 - 120 | 13.887 | 13.892 | -0.0050 | N/A | |
| Tetrachlorometaxylene | 40.000 | 98.3 | 80 - 120 | 5.807 | 5.808667 | -0.0017 | N/A | |
| Decachlorobiphenyl [2C] | 40.000 | 93.0 | 80 - 120 | 14.115 | 14.12017 | -0.0052 | N/A | |
| Tetrachlorometaxylene [2C] | 40.000 | 100 | 80 - 120 | 5.684 | 5.685333 | -0.0013 | N/A | |
| SLB0109-CCV6 (Solid) | | Lab File ID: 02072330ECD7.D | | | Analyzed: 02/07/23 22:51 | | | |
| Decachlorobiphenyl | 40.000 | 96.8 | 80 - 120 | 13.887 | 13.892 | -0.0050 | N/A | |
| Tetrachlorometaxylene | 40.000 | 108 | 80 - 120 | 5.807 | 5.808667 | -0.0017 | N/A | |
| Decachlorobiphenyl [2C] | 40.000 | 98.8 | 80 - 120 | 14.116 | 14.12017 | -0.0042 | N/A | |
| Tetrachlorometaxylene [2C] | 40.000 | 106 | 80 - 120 | 5.684 | 5.685333 | -0.0013 | N/A | |
| SLB0109-CCV7 (Solid) | | Lab File ID: 02072346ECD7.D | | | Analyzed: 02/08/23 04:27 | | | |
| Decachlorobiphenyl | 40.000 | 88.8 | 80 - 120 | 13.889 | 13.892 | -0.0030 | N/A | |
| Tetrachlorometaxylene | 40.000 | 99.5 | 80 - 120 | 5.806 | 5.808667 | -0.0027 | N/A | |
| Decachlorobiphenyl [2C] | 40.000 | 91.0 | 80 - 120 | 14.115 | 14.12017 | -0.0052 | N/A | |
| Tetrachlorometaxylene [2C] | 40.000 | 102 | 80 - 120 | 5.684 | 5.685333 | -0.0013 | N/A | |
| SLB0109-CCV8 (Solid) | | Lab File ID: 02072347ECD7.D | | | Analyzed: 02/08/23 04:48 | | | |
| Decachlorobiphenyl | 40.000 | 95.5 | 80 - 120 | 13.888 | 13.892 | -0.0040 | N/A | |
| Tetrachlorometaxylene | 40.000 | 107 | 80 - 120 | 5.808 | 5.808667 | -0.0007 | N/A | |
| Decachlorobiphenyl [2C] | 40.000 | 98.5 | 80 - 120 | 14.116 | 14.12017 | -0.0042 | N/A | |
| Tetrachlorometaxylene [2C] | 40.000 | 107 | 80 - 120 | 5.686 | 5.685333 | 0.0007 | N/A | |
| SLB0109-CCV9 (Solid) | | Lab File ID: 02072357ECD7.D | | | Analyzed: 02/08/23 08:18 | | | |
| Decachlorobiphenyl | 40.000 | 93.3 | 80 - 120 | 13.887 | 13.892 | -0.0050 | N/A | |
| Tetrachlorometaxylene | 40.000 | 123 | 80 - 120 | 5.808 | 5.808667 | -0.0007 | N/A | * |
| Decachlorobiphenyl [2C] | 40.000 | 94.8 | 80 - 120 | 14.117 | 14.12017 | -0.0032 | N/A | |
| Tetrachlorometaxylene [2C] | 40.000 | 124 | 80 - 120 | 5.685 | 5.685333 | -0.0003 | N/A | * |



SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory: Analytical Resources, LLC

SDG/WO: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Sequence: SLB0109

Instrument: ECD7

Calibration: GA00061

Calibration Date: 01/24/2023

| Surrogate Compound | Spike Level ug/L | % Recovery | Recovery Limits | RT | Calibration Mean RT | RT Diff | RT Diff Limit | Q |
|-----------------------------|------------------|-----------------------------|-----------------|--------|--------------------------|---------|---------------|---|
| SLB0109-CCVA (Solid) | | Lab File ID: 02072358ECD7.D | | | Analyzed: 02/08/23 08:39 | | | |
| Decachlorobiphenyl | 40.000 | 123 | 80 - 120 | 13.888 | 13.892 | -0.0040 | N/A | * |
| Tetrachlorometaxylene | 40.000 | 107 | 80 - 120 | 5.808 | 5.808667 | -0.0007 | N/A | |
| Decachlorobiphenyl [2C] | 40.000 | 93.3 | 80 - 120 | 14.117 | 14.12017 | -0.0032 | N/A | |
| Tetrachlorometaxylene [2C] | 40.000 | 105 | 80 - 120 | 5.684 | 5.685333 | -0.0013 | N/A | |



INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8082A

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLA0281

SDG: 23A0180
Project: AOC5 MR Phase 1
Instrument: ECD7
Calibration: GA00061

| Internal Standard | Response | RT | Reference Response | Reference RT | Area % | Area % Limits | RT Diff | RT Diff Limit | Q |
|---|----------|---------|-----------------------------|--------------|--------|--------------------------|---------|---------------|---|
| Secondary Cal Check (SLA0281-SCV1) | | (Solid) | Lab File ID: 01242324ECD7.D | | | Analyzed: 01/24/23 19:51 | | | |
| 1-Bromo-2-Nitrobenzene | 506576 | 3.491 | 503318 | 3.492 | 101 | 50 - 200 | -0.001 | +/-0.50 | |
| Hexabromobiphenyl | 940129 | 14.264 | 647433 | 14.266 | 145 | 50 - 200 | -0.002 | +/-0.50 | |
| 1-Bromo-2-Nitrobenzene [2C] | 343102 | 3.928 | 336911 | 3.928 | 102 | 50 - 200 | 0.000 | +/-0.50 | |
| Hexabromobiphenyl [2C] | 501702 | 15.008 | 382032 | 15.008 | 131 | 50 - 200 | 0.000 | +/-0.50 | |
| Secondary Cal Check (SLA0281-SCV2) | | (Solid) | Lab File ID: 01242325ECD7.D | | | Analyzed: 01/24/23 20:12 | | | |
| 1-Bromo-2-Nitrobenzene | 503089 | 3.492 | 503318 | 3.492 | 100 | 50 - 200 | 0.000 | +/-0.50 | |
| Hexabromobiphenyl | 953137 | 14.265 | 647433 | 14.266 | 147 | 50 - 200 | -0.001 | +/-0.50 | |
| 1-Bromo-2-Nitrobenzene [2C] | 341704 | 3.929 | 336911 | 3.928 | 101 | 50 - 200 | 0.001 | +/-0.50 | |
| Hexabromobiphenyl [2C] | 505860 | 15.007 | 382032 | 15.008 | 132 | 50 - 200 | -0.001 | +/-0.50 | |
| Secondary Cal Check (SLA0281-SCV3) | | (Solid) | Lab File ID: 01242326ECD7.D | | | Analyzed: 01/24/23 20:33 | | | |
| 1-Bromo-2-Nitrobenzene | 508189 | 3.491 | 503318 | 3.492 | 101 | 50 - 200 | -0.001 | +/-0.50 | |
| Hexabromobiphenyl | 979067 | 14.265 | 647433 | 14.266 | 151 | 50 - 200 | -0.001 | +/-0.50 | |
| 1-Bromo-2-Nitrobenzene [2C] | 344105 | 3.928 | 336911 | 3.928 | 102 | 50 - 200 | 0.000 | +/-0.50 | |
| Hexabromobiphenyl [2C] | 503378 | 15.007 | 382032 | 15.008 | 132 | 50 - 200 | -0.001 | +/-0.50 | |
| Secondary Cal Check (SLA0281-SCV4) | | (Solid) | Lab File ID: 01242327ECD7.D | | | Analyzed: 01/24/23 20:54 | | | |
| 1-Bromo-2-Nitrobenzene | 504424 | 3.491 | 503318 | 3.492 | 100 | 50 - 200 | -0.001 | +/-0.50 | |
| Hexabromobiphenyl | 968338 | 14.265 | 647433 | 14.266 | 150 | 50 - 200 | -0.001 | +/-0.50 | |
| 1-Bromo-2-Nitrobenzene [2C] | 342969 | 3.928 | 336911 | 3.928 | 102 | 50 - 200 | 0.000 | +/-0.50 | |
| Hexabromobiphenyl [2C] | 515045 | 15.01 | 382032 | 15.008 | 135 | 50 - 200 | 0.002 | +/-0.50 | |
| Secondary Cal Check (SLA0281-SCV5) | | (Solid) | Lab File ID: 01242328ECD7.D | | | Analyzed: 01/24/23 21:15 | | | |
| 1-Bromo-2-Nitrobenzene | 503473 | 3.491 | 503318 | 3.492 | 100 | 50 - 200 | -0.001 | +/-0.50 | |
| Hexabromobiphenyl | 991997 | 14.264 | 647433 | 14.266 | 153 | 50 - 200 | -0.002 | +/-0.50 | |
| 1-Bromo-2-Nitrobenzene [2C] | 340361 | 3.928 | 336911 | 3.928 | 101 | 50 - 200 | 0.000 | +/-0.50 | |
| Hexabromobiphenyl [2C] | 521975 | 15.008 | 382032 | 15.008 | 137 | 50 - 200 | 0.000 | +/-0.50 | |
| Secondary Cal Check (SLA0281-SCV6) | | (Solid) | Lab File ID: 01242329ECD7.D | | | Analyzed: 01/24/23 21:36 | | | |
| 1-Bromo-2-Nitrobenzene | 487061 | 3.494 | 503318 | 3.492 | 97 | 50 - 200 | 0.002 | +/-0.50 | |
| Hexabromobiphenyl | 944934 | 14.266 | 647433 | 14.266 | 146 | 50 - 200 | 0.000 | +/-0.50 | |
| 1-Bromo-2-Nitrobenzene [2C] | 331721 | 3.93 | 336911 | 3.928 | 98 | 50 - 200 | 0.002 | +/-0.50 | |
| Hexabromobiphenyl [2C] | 502401 | 15.007 | 382032 | 15.008 | 132 | 50 - 200 | -0.001 | +/-0.50 | |



INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8082A

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLB0084

SDG: 23A0180
Project: AOC5 MR Phase 1
Instrument: ECD7
Calibration: GA00061

| Internal Standard | Response | RT | Reference Response | Reference RT | Area % | Area % Limits | RT Diff | RT Diff Limit | Q |
|--|----------|---------|-----------------------------|--------------|--------|--------------------------|---------|---------------|---|
| Initial Cal Check (SLB0084-ICV1) | | (Solid) | Lab File ID: 02042302ECD7.D | | | Analyzed: 02/04/23 16:16 | | | |
| 1-Bromo-2-Nitrobenzene | 445657 | 3.49 | 445657 | 3.49 | 100 | 50 - 200 | 0.000 | +/-0.50 | |
| Hexabromobiphenyl | 603824 | 14.258 | 603824 | 14.258 | 100 | 50 - 200 | 0.000 | +/-0.50 | |
| 1-Bromo-2-Nitrobenzene [2C] | 355423 | 3.926 | 355423 | 3.926 | 100 | 50 - 200 | 0.000 | +/-0.50 | |
| Hexabromobiphenyl [2C] | 421154 | 15.004 | 421154 | 15.004 | 100 | 50 - 200 | 0.000 | +/-0.50 | |
| Initial Cal Check (SLB0084-ICV2) | | (Solid) | Lab File ID: 02042303ECD7.D | | | Analyzed: 02/04/23 16:37 | | | |
| 1-Bromo-2-Nitrobenzene | 423364 | 3.489 | 423364 | 3.489 | 100 | 50 - 200 | 0.000 | +/-0.50 | |
| Hexabromobiphenyl | 638765 | 14.258 | 638765 | 14.258 | 100 | 50 - 200 | 0.000 | +/-0.50 | |
| 1-Bromo-2-Nitrobenzene [2C] | 341362 | 3.926 | 341362 | 3.926 | 100 | 50 - 200 | 0.000 | +/-0.50 | |
| Hexabromobiphenyl [2C] | 415854 | 15.003 | 415854 | 15.003 | 100 | 50 - 200 | 0.000 | +/-0.50 | |
| LDW23-SC1151 (23A0180-04) | | (Solid) | Lab File ID: 02042342ECD7.D | | | Analyzed: 02/05/23 06:19 | | | |
| 1-Bromo-2-Nitrobenzene | 454039 | 3.489 | 423364 | 3.489 | 107 | 50 - 200 | 0.000 | +/-0.50 | |
| Hexabromobiphenyl | 381011 | 14.247 | 638765 | 14.258 | 60 | 50 - 200 | -0.011 | +/-0.50 | |
| 1-Bromo-2-Nitrobenzene [2C] | 354904 | 3.925 | 341362 | 3.926 | 104 | 50 - 200 | -0.001 | +/-0.50 | |
| Hexabromobiphenyl [2C] | 325262 | 14.995 | 415854 | 15.003 | 78 | 50 - 200 | -0.008 | +/-0.50 | |
| LDW23-SC1145 (23A0180-05) | | (Solid) | Lab File ID: 02042343ECD7.D | | | Analyzed: 02/05/23 06:41 | | | |
| 1-Bromo-2-Nitrobenzene | 444258 | 3.491 | 423364 | 3.489 | 105 | 50 - 200 | 0.002 | +/-0.50 | |
| Hexabromobiphenyl | 379937 | 14.248 | 638765 | 14.258 | 59 | 50 - 200 | -0.010 | +/-0.50 | |
| 1-Bromo-2-Nitrobenzene [2C] | 343558 | 3.927 | 341362 | 3.926 | 101 | 50 - 200 | 0.001 | +/-0.50 | |
| Hexabromobiphenyl [2C] | 336568 | 14.995 | 415854 | 15.003 | 81 | 50 - 200 | -0.008 | +/-0.50 | |
| LDW23-SC1117 (23A0180-09) | | (Solid) | Lab File ID: 02042349ECD7.D | | | Analyzed: 02/05/23 08:47 | | | |
| 1-Bromo-2-Nitrobenzene | 429200 | 3.488 | 423364 | 3.489 | 101 | 50 - 200 | -0.001 | +/-0.50 | |
| Hexabromobiphenyl | 366288 | 14.247 | 638765 | 14.258 | 57 | 50 - 200 | -0.011 | +/-0.50 | |
| 1-Bromo-2-Nitrobenzene [2C] | 342206 | 3.924 | 341362 | 3.926 | 100 | 50 - 200 | -0.002 | +/-0.50 | |
| Hexabromobiphenyl [2C] | 320302 | 14.995 | 415854 | 15.003 | 77 | 50 - 200 | -0.008 | +/-0.50 | |
| LDW23-SC1100 (23A0180-13) | | (Solid) | Lab File ID: 02042353ECD7.D | | | Analyzed: 02/05/23 10:11 | | | |
| 1-Bromo-2-Nitrobenzene | 427629 | 3.489 | 423364 | 3.489 | 101 | 50 - 200 | 0.000 | +/-0.50 | |
| Hexabromobiphenyl | 362913 | 14.248 | 638765 | 14.258 | 57 | 50 - 200 | -0.010 | +/-0.50 | |
| 1-Bromo-2-Nitrobenzene [2C] | 341717 | 3.925 | 341362 | 3.926 | 100 | 50 - 200 | -0.001 | +/-0.50 | |
| Hexabromobiphenyl [2C] | 317819 | 14.995 | 415854 | 15.003 | 76 | 50 - 200 | -0.008 | +/-0.50 | |



INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8082A

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLB0086

SDG: 23A0180
Project: AOC5 MR Phase 1
Instrument: ECD7
Calibration: GA00061

| Internal Standard | Response | RT | Reference Response | Reference RT | Area % | Area % Limits | RT Diff | RT Diff Limit | Q |
|---|----------|---------|-----------------------------|--------------|--------|--------------------------|---------|---------------|---|
| Initial Cal Check (SLB0086-ICV1) | | (Solid) | Lab File ID: 02062302ECD7.D | | | Analyzed: 02/06/23 09:54 | | | |
| 1-Bromo-2-Nitrobenzene | 479907 | 3.492 | 479907 | 3.492 | 100 | 50 - 200 | 0.000 | +/-0.50 | |
| Hexabromobiphenyl | 614840 | 14.256 | 614840 | 14.256 | 100 | 50 - 200 | 0.000 | +/-0.50 | |
| 1-Bromo-2-Nitrobenzene [2C] | 399612 | 3.928 | 399612 | 3.928 | 100 | 50 - 200 | 0.000 | +/-0.50 | |
| Hexabromobiphenyl [2C] | 429384 | 15.002 | 429384 | 15.002 | 100 | 50 - 200 | 0.000 | +/-0.50 | |
| Initial Cal Check (SLB0086-ICV2) | | (Solid) | Lab File ID: 02062303ECD7.D | | | Analyzed: 02/06/23 10:15 | | | |
| 1-Bromo-2-Nitrobenzene | 473401 | 3.492 | 473401 | 3.492 | 100 | 50 - 200 | 0.000 | +/-0.50 | |
| Hexabromobiphenyl | 704074 | 14.258 | 704074 | 14.258 | 100 | 50 - 200 | 0.000 | +/-0.50 | |
| 1-Bromo-2-Nitrobenzene [2C] | 392302 | 3.929 | 392302 | 3.929 | 100 | 50 - 200 | 0.000 | +/-0.50 | |
| Hexabromobiphenyl [2C] | 452930 | 15.003 | 452930 | 15.003 | 100 | 50 - 200 | 0.000 | +/-0.50 | |
| LDW23-SC1066 (23A0180-07) | | (Solid) | Lab File ID: 02062321ECD7.D | | | Analyzed: 02/06/23 16:34 | | | |
| 1-Bromo-2-Nitrobenzene | 369269 | 3.491 | 473401 | 3.492 | 78 | 50 - 200 | -0.001 | +/-0.50 | |
| Hexabromobiphenyl | 424458 | 14.25 | 704074 | 14.258 | 60 | 50 - 200 | -0.008 | +/-0.50 | |
| 1-Bromo-2-Nitrobenzene [2C] | 318034 | 3.928 | 392302 | 3.929 | 81 | 50 - 200 | -0.001 | +/-0.50 | |
| Hexabromobiphenyl [2C] | 353595 | 14.998 | 452930 | 15.003 | 78 | 50 - 200 | -0.005 | +/-0.50 | |
| Blank (BLA0559-BLK1) | | (Solid) | Lab File ID: 02062324ECD7.D | | | Analyzed: 02/06/23 17:37 | | | |
| 1-Bromo-2-Nitrobenzene | 391588 | 3.491 | 473401 | 3.492 | 83 | 50 - 200 | -0.001 | +/-0.50 | |
| Hexabromobiphenyl | 593929 | 14.256 | 704074 | 14.258 | 84 | 50 - 200 | -0.002 | +/-0.50 | |
| 1-Bromo-2-Nitrobenzene [2C] | 342622 | 3.927 | 392302 | 3.929 | 87 | 50 - 200 | -0.002 | +/-0.50 | |
| Hexabromobiphenyl [2C] | 453315 | 15.003 | 452930 | 15.003 | 100 | 50 - 200 | 0.000 | +/-0.50 | |
| LCS (BLA0559-BS1) | | (Solid) | Lab File ID: 02062325ECD7.D | | | Analyzed: 02/06/23 17:58 | | | |
| 1-Bromo-2-Nitrobenzene | 405363 | 3.491 | 473401 | 3.492 | 86 | 50 - 200 | -0.001 | +/-0.50 | |
| Hexabromobiphenyl | 638593 | 14.256 | 704074 | 14.258 | 91 | 50 - 200 | -0.002 | +/-0.50 | |
| 1-Bromo-2-Nitrobenzene [2C] | 354090 | 3.927 | 392302 | 3.929 | 90 | 50 - 200 | -0.002 | +/-0.50 | |
| Hexabromobiphenyl [2C] | 484130 | 15.002 | 452930 | 15.003 | 107 | 50 - 200 | -0.001 | +/-0.50 | |
| LCS Dup (BLA0559-BSD1) | | (Solid) | Lab File ID: 02062326ECD7.D | | | Analyzed: 02/06/23 18:19 | | | |
| 1-Bromo-2-Nitrobenzene | 386207 | 3.491 | 473401 | 3.492 | 82 | 50 - 200 | -0.001 | +/-0.50 | |
| Hexabromobiphenyl | 623990 | 14.257 | 704074 | 14.258 | 89 | 50 - 200 | -0.001 | +/-0.50 | |
| 1-Bromo-2-Nitrobenzene [2C] | 337737 | 3.928 | 392302 | 3.929 | 86 | 50 - 200 | -0.001 | +/-0.50 | |
| Hexabromobiphenyl [2C] | 471432 | 15.002 | 452930 | 15.003 | 104 | 50 - 200 | -0.001 | +/-0.50 | |



INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8082A

Laboratory: Analytical Resources, LLC
Client: Anchor OEA, LLC
Sequence: SLB0086

SDG: 23A0180
Project: AOC5 MR Phase 1
Instrument: ECD7
Calibration: GA00061

| Internal Standard | Response | RT | Reference Response | Reference RT | Area % | Area % Limits | RT Diff | RT Diff Limit | Q |
|-------------------------------------|----------|---------|-----------------------------|--------------|--------|--------------------------|---------|---------------|---|
| Reference (BLA0559-SRM1) | | (Solid) | Lab File ID: 02062327ECD7.D | | | Analyzed: 02/06/23 18:40 | | | |
| 1-Bromo-2-Nitrobenzene | 386898 | 3.492 | 473401 | 3.492 | 82 | 50 - 200 | 0.000 | +/-0.50 | |
| Hexabromobiphenyl | 504151 | 14.25 | 704074 | 14.258 | 72 | 50 - 200 | -0.008 | +/-0.50 | |
| 1-Bromo-2-Nitrobenzene [2C] | 330256 | 3.928 | 392302 | 3.929 | 84 | 50 - 200 | -0.001 | +/-0.50 | |
| Hexabromobiphenyl [2C] | 418615 | 14.998 | 452930 | 15.003 | 92 | 50 - 200 | -0.005 | +/-0.50 | |
| LDW23-SC1164 (23A0180-01) | | (Solid) | Lab File ID: 02062328ECD7.D | | | Analyzed: 02/06/23 19:01 | | | |
| 1-Bromo-2-Nitrobenzene | 363976 | 3.492 | 473401 | 3.492 | 77 | 50 - 200 | 0.000 | +/-0.50 | |
| Hexabromobiphenyl | 338604 | 14.247 | 704074 | 14.258 | 48 | 50 - 200 | -0.011 | +/-0.50 | * |
| 1-Bromo-2-Nitrobenzene [2C] | 301432 | 3.928 | 392302 | 3.929 | 77 | 50 - 200 | -0.001 | +/-0.50 | |
| Hexabromobiphenyl [2C] | 301274 | 14.996 | 452930 | 15.003 | 67 | 50 - 200 | -0.007 | +/-0.50 | |
| LDW23-SC1164-FD (23A0180-02) | | (Solid) | Lab File ID: 02062329ECD7.D | | | Analyzed: 02/06/23 19:22 | | | |
| 1-Bromo-2-Nitrobenzene | 363318 | 3.492 | 473401 | 3.492 | 77 | 50 - 200 | 0.000 | +/-0.50 | |
| Hexabromobiphenyl | 290947 | 14.247 | 704074 | 14.258 | 41 | 50 - 200 | -0.011 | +/-0.50 | * |
| 1-Bromo-2-Nitrobenzene [2C] | 309952 | 3.928 | 392302 | 3.929 | 79 | 50 - 200 | -0.001 | +/-0.50 | |
| Hexabromobiphenyl [2C] | 262724 | 14.995 | 452930 | 15.003 | 58 | 50 - 200 | -0.008 | +/-0.50 | |
| LDW23-SC1158 (23A0180-03) | | (Solid) | Lab File ID: 02062330ECD7.D | | | Analyzed: 02/06/23 19:43 | | | |
| 1-Bromo-2-Nitrobenzene | 386232 | 3.491 | 473401 | 3.492 | 82 | 50 - 200 | -0.001 | +/-0.50 | |
| Hexabromobiphenyl | 345634 | 14.247 | 704074 | 14.258 | 49 | 50 - 200 | -0.011 | +/-0.50 | * |
| 1-Bromo-2-Nitrobenzene [2C] | 323739 | 3.928 | 392302 | 3.929 | 83 | 50 - 200 | -0.001 | +/-0.50 | |
| Hexabromobiphenyl [2C] | 304607 | 14.996 | 452930 | 15.003 | 67 | 50 - 200 | -0.007 | +/-0.50 | |
| LDW23-SC1061 (23A0180-08) | | (Solid) | Lab File ID: 02062333ECD7.D | | | Analyzed: 02/06/23 20:46 | | | |
| 1-Bromo-2-Nitrobenzene | 382073 | 3.491 | 473401 | 3.492 | 81 | 50 - 200 | -0.001 | +/-0.50 | |
| Hexabromobiphenyl | 332343 | 14.247 | 704074 | 14.258 | 47 | 50 - 200 | -0.011 | +/-0.50 | * |
| 1-Bromo-2-Nitrobenzene [2C] | 313398 | 3.927 | 392302 | 3.929 | 80 | 50 - 200 | -0.002 | +/-0.50 | |
| Hexabromobiphenyl [2C] | 307921 | 14.996 | 452930 | 15.003 | 68 | 50 - 200 | -0.007 | +/-0.50 | |
| LDW23-SC1093 (23A0180-10) | | (Solid) | Lab File ID: 02062335ECD7.D | | | Analyzed: 02/06/23 21:28 | | | |
| 1-Bromo-2-Nitrobenzene | 353519 | 3.492 | 473401 | 3.492 | 75 | 50 - 200 | 0.000 | +/-0.50 | |
| Hexabromobiphenyl | 310402 | 14.248 | 704074 | 14.258 | 44 | 50 - 200 | -0.010 | +/-0.50 | * |
| 1-Bromo-2-Nitrobenzene [2C] | 291752 | 3.928 | 392302 | 3.929 | 74 | 50 - 200 | -0.001 | +/-0.50 | |
| Hexabromobiphenyl [2C] | 277305 | 14.996 | 452930 | 15.003 | 61 | 50 - 200 | -0.007 | +/-0.50 | |



INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8082A

Laboratory: Analytical Resources, LLC
Client: Anchor OEA, LLC
Sequence: SLB0086

SDG: 23A0180
Project: AOC5 MR Phase 1
Instrument: ECD7
Calibration: GA00061

| Internal Standard | Response | RT | Reference Response | Reference RT | Area % | Area % Limits | RT Diff | RT Diff Limit | Q |
|--|----------|---------|-----------------------------|--------------|--------|--------------------------|---------|---------------|---|
| LDW23-SC1094 (23A0180-11) | | (Solid) | Lab File ID: 02062336ECD7.D | | | Analyzed: 02/06/23 21:49 | | | |
| 1-Bromo-2-Nitrobenzene | 384791 | 3.492 | 473401 | 3.492 | 81 | 50 - 200 | 0.000 | +/-0.50 | |
| Hexabromobiphenyl | 335231 | 14.248 | 704074 | 14.258 | 48 | 50 - 200 | -0.010 | +/-0.50 | * |
| 1-Bromo-2-Nitrobenzene [2C] | 314427 | 3.929 | 392302 | 3.929 | 80 | 50 - 200 | 0.000 | +/-0.50 | |
| Hexabromobiphenyl [2C] | 304107 | 14.996 | 452930 | 15.003 | 67 | 50 - 200 | -0.007 | +/-0.50 | |
| LDW23-SC1103 (23A0180-12) | | (Solid) | Lab File ID: 02062337ECD7.D | | | Analyzed: 02/06/23 22:10 | | | |
| 1-Bromo-2-Nitrobenzene | 362848 | 3.491 | 473401 | 3.492 | 77 | 50 - 200 | -0.001 | +/-0.50 | |
| Hexabromobiphenyl | 301261 | 14.247 | 704074 | 14.258 | 43 | 50 - 200 | -0.011 | +/-0.50 | * |
| 1-Bromo-2-Nitrobenzene [2C] | 307952 | 3.928 | 392302 | 3.929 | 78 | 50 - 200 | -0.001 | +/-0.50 | |
| Hexabromobiphenyl [2C] | 275747 | 14.995 | 452930 | 15.003 | 61 | 50 - 200 | -0.008 | +/-0.50 | |
| LDW23-SC1101 (23A0180-14) | | (Solid) | Lab File ID: 02062341ECD7.D | | | Analyzed: 02/06/23 23:34 | | | |
| 1-Bromo-2-Nitrobenzene | 384821 | 3.491 | 473401 | 3.492 | 81 | 50 - 200 | -0.001 | +/-0.50 | |
| Hexabromobiphenyl | 302136 | 14.247 | 704074 | 14.258 | 43 | 50 - 200 | -0.011 | +/-0.50 | * |
| 1-Bromo-2-Nitrobenzene [2C] | 318276 | 3.927 | 392302 | 3.929 | 81 | 50 - 200 | -0.002 | +/-0.50 | |
| Hexabromobiphenyl [2C] | 274182 | 14.997 | 452930 | 15.003 | 61 | 50 - 200 | -0.006 | +/-0.50 | |
| Matrix Spike (BLA0559-MS1) | | (Solid) | Lab File ID: 02062342ECD7.D | | | Analyzed: 02/06/23 23:55 | | | |
| 1-Bromo-2-Nitrobenzene | 386468 | 3.491 | 473401 | 3.492 | 82 | 50 - 200 | -0.001 | +/-0.50 | |
| Hexabromobiphenyl | 333273 | 14.248 | 704074 | 14.258 | 47 | 50 - 200 | -0.010 | +/-0.50 | * |
| 1-Bromo-2-Nitrobenzene [2C] | 315766 | 3.928 | 392302 | 3.929 | 80 | 50 - 200 | -0.001 | +/-0.50 | |
| Hexabromobiphenyl [2C] | 301052 | 14.997 | 452930 | 15.003 | 66 | 50 - 200 | -0.006 | +/-0.50 | |
| Matrix Spike Dup (BLA0559-MSD1) | | (Solid) | Lab File ID: 02062343ECD7.D | | | Analyzed: 02/07/23 00:16 | | | |
| 1-Bromo-2-Nitrobenzene | 386172 | 3.491 | 473401 | 3.492 | 82 | 50 - 200 | -0.001 | +/-0.50 | |
| Hexabromobiphenyl | 323704 | 14.247 | 704074 | 14.258 | 46 | 50 - 200 | -0.011 | +/-0.50 | * |
| 1-Bromo-2-Nitrobenzene [2C] | 314171 | 3.928 | 392302 | 3.929 | 80 | 50 - 200 | -0.001 | +/-0.50 | |
| Hexabromobiphenyl [2C] | 299929 | 14.996 | 452930 | 15.003 | 66 | 50 - 200 | -0.007 | +/-0.50 | |
| LDW23-SC1096 (23A0180-15) | | (Solid) | Lab File ID: 02062344ECD7.D | | | Analyzed: 02/07/23 00:37 | | | |
| 1-Bromo-2-Nitrobenzene | 371481 | 3.491 | 473401 | 3.492 | 78 | 50 - 200 | -0.001 | +/-0.50 | |
| Hexabromobiphenyl | 304486 | 14.248 | 704074 | 14.258 | 43 | 50 - 200 | -0.010 | +/-0.50 | * |
| 1-Bromo-2-Nitrobenzene [2C] | 313334 | 3.927 | 392302 | 3.929 | 80 | 50 - 200 | -0.002 | +/-0.50 | |
| Hexabromobiphenyl [2C] | 278658 | 14.995 | 452930 | 15.003 | 62 | 50 - 200 | -0.008 | +/-0.50 | |



INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8082A

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Sequence: SLB0109

Instrument: ECD7

Calibration: GA00061

| Internal Standard | Response | RT | Reference Response | Reference RT | Area % | Area % Limits | RT Diff | RT Diff Limit | Q |
|---|----------|---------|-----------------------------|--------------|--------|--------------------------|---------|---------------|---|
| Initial Cal Check (SLB0109-ICV1) | | (Solid) | Lab File ID: 02072302ECD7.D | | | Analyzed: 02/07/23 13:02 | | | |
| 1-Bromo-2-Nitrobenzene | 375418 | 3.492 | 375418 | 3.492 | 100 | 50 - 200 | 0.000 | +/-0.50 | |
| Hexabromobiphenyl | 576037 | 14.259 | 576037 | 14.259 | 100 | 50 - 200 | 0.000 | +/-0.50 | |
| 1-Bromo-2-Nitrobenzene [2C] | 325374 | 3.929 | 325374 | 3.929 | 100 | 50 - 200 | 0.000 | +/-0.50 | |
| Hexabromobiphenyl [2C] | 434504 | 15.003 | 434504 | 15.003 | 100 | 50 - 200 | 0.000 | +/-0.50 | |
| Initial Cal Check (SLB0109-ICV2) | | (Solid) | Lab File ID: 02072303ECD7.D | | | Analyzed: 02/07/23 13:23 | | | |
| 1-Bromo-2-Nitrobenzene | 327497 | 3.492 | 327497 | 3.492 | 100 | 50 - 200 | 0.000 | +/-0.50 | |
| Hexabromobiphenyl | 587822 | 14.259 | 587822 | 14.259 | 100 | 50 - 200 | 0.000 | +/-0.50 | |
| 1-Bromo-2-Nitrobenzene [2C] | 284039 | 3.928 | 284039 | 3.928 | 100 | 50 - 200 | 0.000 | +/-0.50 | |
| Hexabromobiphenyl [2C] | 390643 | 15.001 | 390643 | 15.001 | 100 | 50 - 200 | 0.000 | +/-0.50 | |
| LDW23-SC1139 (23A0180-06) | | (Solid) | Lab File ID: 02072304ECD7.D | | | Analyzed: 02/07/23 13:44 | | | |
| 1-Bromo-2-Nitrobenzene | 395259 | 3.492 | 327497 | 3.492 | 121 | 50 - 200 | 0.000 | +/-0.50 | |
| Hexabromobiphenyl | 473757 | 14.249 | 587822 | 14.259 | 81 | 50 - 200 | -0.010 | +/-0.50 | |
| 1-Bromo-2-Nitrobenzene [2C] | 332039 | 3.929 | 284039 | 3.928 | 117 | 50 - 200 | 0.001 | +/-0.50 | |
| Hexabromobiphenyl [2C] | 390072 | 14.997 | 390643 | 15.001 | 100 | 50 - 200 | -0.004 | +/-0.50 | |



DUAL COLUMN CONFIRMATION SUMMARY

| | | | |
|---------------|----------------------------------|----------------|-----------------------------|
| Laboratory: | <u>Analytical Resources, LLC</u> | SDG: | <u>23A0180</u> |
| Client: | <u>Anchor QEA, LLC</u> | Project: | <u>AOC5 MR Phase 1</u> |
| Matrix: | <u>Sediment</u> | Laboratory ID: | <u>23A0180-09</u> |
| Sampled: | <u>01/10/23 11:35</u> | File ID: | <u>02042349ECD7.D</u> |
| Solids: | <u>51.54</u> | Prepared: | <u>01/26/23 14:06</u> |
| Batch: | <u>BLA0559</u> | Analyzed: | <u>02/05/23 08:47</u> |
| | | Preparation: | <u>EPA 3546 (Microwave)</u> |
| | | Instrument: | <u>ECD7</u> |
| | | Sequence: | <u>SLB0084</u> |
| GC Column(1): | <u>ZB5</u> | GC Column(2): | <u>ZB35</u> |

| COMPOUND | COL | RT | EXP RT | RT DIFF | AREA | CONC | RPD |
|--------------|-----|--------|----------|---------|----------|------|------|
| Aroclor 1248 | 1 | 8.393 | 8.405 | 0.012 | 49659.5 | 32.2 | .6 |
| | * 2 | 8.295 | 8.305 | 0.01 | 30651.75 | 32.4 | |
| Aroclor 1254 | 1 | 9.283 | 9.298 | 0.015 | 81378 | 44.7 | 17.9 |
| | * 2 | 9.434 | 9.447 | 0.013 | 85665 | 53.5 | |
| Aroclor 1260 | 1 | 11.031 | 11.04533 | 0.0143 | 53421 | 39.3 | 10.4 |
| | * 2 | 11.64 | 11.65333 | 0.0133 | 67414.75 | 43.6 | |

* Column used for quantitation



DUAL COLUMN CONFIRMATION SUMMARY

Laboratory: Analytical Resources, LLC SDG: 23A0180
 Client: Anchor OEA, LLC Project: AOC5 MR Phase 1
 Matrix: Sediment Laboratory ID: 23A0180-01 File ID: 02062328ECD7.D
 Sampled: 01/10/23 08:05 Prepared: 01/26/23 14:06 Analyzed: 02/06/23 19:01
 Solids: 51.36 Preparation: EPA 3546 (Microwave) Instrument: ECD7
 Batch: BLA0559 Sequence: SLB0086
 GC Column(1): ZB5 GC Column(2): ZB35

| COMPOUND | COL | RT | EXP RT | RT DIFF | AREA | CONC | RPD |
|--------------|-----|--------|----------|---------|----------|------|------|
| Aroclor 1248 | * 1 | 8.393 | 8.405 | 0.012 | 86888 | 47.1 | 2.8 |
| | 2 | 8.297 | 8.305 | 0.008 | 56333.5 | 45.8 | |
| Aroclor 1254 | * 1 | 9.285 | 9.298 | 0.013 | 124256.8 | 59.9 | 20. |
| | 2 | 9.436 | 9.447 | 0.011 | 145224.4 | 73.2 | |
| Aroclor 1260 | * 1 | 11.031 | 11.04533 | 0.0143 | 87956.4 | 49.6 | 16.1 |
| | 2 | 11.641 | 11.65333 | 0.0123 | 120532.8 | 58.3 | |

* Column used for quantitation



DUAL COLUMN CONFIRMATION SUMMARY

Laboratory: Analytical Resources, LLC SDG: 23A0180
Client: Anchor QEA, LLC Project: AOC5 MR Phase 1
Matrix: Sediment Laboratory ID: 23A0180-02 File ID: 02062329ECD7.D
Sampled: 01/10/23 08:05 Prepared: 01/26/23 14:06 Analyzed: 02/06/23 19:22
Solids: 53.01 Preparation: EPA 3546 (Microwave) Instrument: ECD7
Batch: BLA0559 Sequence: SLB0086
GC Column(1): ZB5 GC Column(2): ZB35

| COMPOUND | COL | RT | EXP RT | RT DIFF | AREA | CONC | RPD |
|--------------|-----|--------|----------|---------|----------|------|-----|
| Aroclor 1248 | * 1 | 8.394 | 8.405 | 0.011 | 85523.75 | 65.4 | 1.9 |
| | 2 | 8.297 | 8.305 | 0.008 | 57532.25 | 64.2 | |
| Aroclor 1254 | * 1 | 9.285 | 9.298 | 0.013 | 134652.8 | 87.6 | 8.4 |
| | 2 | 9.436 | 9.447 | 0.011 | 138224.4 | 95.3 | |
| Aroclor 1260 | * 1 | 11.032 | 11.04533 | 0.0133 | 77864.2 | 72.2 | 12. |
| | 2 | 11.642 | 11.65333 | 0.0113 | 104644.8 | 81.4 | |

* Column used for quantitation



DUAL COLUMN CONFIRMATION SUMMARY

Laboratory: Analytical Resources, LLC SDG: 23A0180
 Client: Anchor QEA, LLC Project: AOC5 MR Phase 1
 Matrix: Sediment Laboratory ID: 23A0180-07 File ID: 02062321ECD7.D
 Sampled: 01/10/23 11:08 Prepared: 01/26/23 14:06 Analyzed: 02/06/23 16:34
 Solids: 50.27 Preparation: EPA 3546 (Microwave) Instrument: ECD7
 Batch: BLA0559 Sequence: SLB0086
 GC Column(1): ZB5 GC Column(2): ZB35

| COMPOUND | COL | RT | EXP RT | RT DIFF | AREA | CONC | RPD |
|--------------|-----|--------|----------|---------|----------|------|------|
| Aroclor 1248 | 1 | 8.397 | 8.405 | 0.008 | 61119.75 | 488 | 33.9 |
| | * 2 | 8.299 | 8.305 | 0.006 | 58310.5 | 687 | |
| Aroclor 1254 | 1 | 9.285 | 9.298 | 0.013 | 35738.4 | 229 | 1.3 |
| | * 2 | 9.438 | 9.447 | 0.009 | 34890 | 232 | |
| Aroclor 1260 | * 1 | 11.033 | 11.04533 | 0.0123 | 18146.8 | 118 | 2.6 |
| | 2 | 11.644 | 11.65333 | 0.00933 | 19638.5 | 115 | |

* Column used for quantitation



DUAL COLUMN CONFIRMATION SUMMARY

Laboratory: Analytical Resources, LLC SDG: 23A0180
 Client: Anchor QEA, LLC Project: AOC5 MR Phase 1
 Matrix: Sediment Laboratory ID: 23A0180-08 File ID: 02062333ECD7.D
 Sampled: 01/10/23 10:45 Prepared: 01/26/23 14:06 Analyzed: 02/06/23 20:46
 Solids: 51.77 Preparation: EPA 3546 (Microwave) Instrument: ECD7
 Batch: BLA0559 Sequence: SLB0086
 GC Column(1): ZB5 GC Column(2): ZB35

| COMPOUND | COL | RT | EXP RT | RT DIFF | AREA | CONC | RPD |
|--------------|-----|--------|----------|---------|----------|------|------|
| Aroclor 1248 | * 1 | 8.394 | 8.405 | 0.011 | 124984.5 | 91.9 | 6.6 |
| | 2 | 8.297 | 8.305 | 0.008 | 83009.5 | 98.2 | |
| Aroclor 1254 | * 1 | 9.285 | 9.298 | 0.013 | 141115.6 | 75.5 | 28.9 |
| | 2 | 9.436 | 9.447 | 0.011 | 148432 | 101 | |
| Aroclor 1260 | * 1 | 11.031 | 11.04533 | 0.0143 | 79574.4 | 64.9 | 11.6 |
| | 2 | 11.642 | 11.65333 | 0.0113 | 108311.5 | 72.9 | |

* Column used for quantitation



DUAL COLUMN CONFIRMATION SUMMARY

| | | |
|--|--|---------------------------------|
| Laboratory: <u>Analytical Resources, LLC</u> | SDG: <u>23A0180</u> | |
| Client: <u>Anchor QEA, LLC</u> | Project: <u>AOC5 MR Phase 1</u> | |
| Matrix: <u>Sediment</u> | Laboratory ID: <u>23A0180-12</u> | File ID: <u>02062337ECD7.D</u> |
| Sampled: <u>01/10/23 13:23</u> | Prepared: <u>01/26/23 14:06</u> | Analyzed: <u>02/06/23 22:10</u> |
| Solids: <u>48.24</u> | Preparation: <u>EPA 3546 (Microwave)</u> | Instrument: <u>ECD7</u> |
| Batch: <u>BLA0559</u> | Sequence: <u>SLB0086</u> | |
| GC Column(1): <u>ZB5</u> | GC Column(2): <u>ZB35</u> | |

| COMPOUND | COL | RT | EXP RT | RT DIFF | AREA | CONC | RPD |
|--------------|-----|--------|----------|---------|----------|------|------|
| Aroclor 1248 | * 1 | 8.396 | 8.405 | 0.009 | 45813.25 | 35.1 | 9.9 |
| | 2 | 8.298 | 8.305 | 0.007 | 27231 | 31.8 | |
| Aroclor 1254 | * 1 | 9.285 | 9.298 | 0.013 | 62492 | 41.3 | 30.6 |
| | 2 | 9.436 | 9.447 | 0.011 | 81093 | 56.2 | |
| Aroclor 1260 | * 1 | 11.031 | 11.04533 | 0.0143 | 48891.6 | 43.3 | 11.5 |
| | 2 | 11.642 | 11.65333 | 0.0113 | 63520.5 | 48.6 | |

* Column used for quantitation



DUAL COLUMN CONFIRMATION SUMMARY

Laboratory: Analytical Resources, LLC SDG: 23A0180
Client: Anchor QEA, LLC Project: AOC5 MR Phase 1
Matrix: Sediment Laboratory ID: 23A0180-15 File ID: 02062344ECD7.D
Sampled: 01/10/23 15:24 Prepared: 01/26/23 14:06 Analyzed: 02/07/23 00:37
Solids: 45.97 Preparation: EPA 3546 (Microwave) Instrument: ECD7
Batch: BLA0559 Sequence: SLB0086
GC Column(1): ZB5 GC Column(2): ZB35

| COMPOUND | COL | RT | EXP RT | RT DIFF | AREA | CONC | RPD |
|--------------|-----|--------|----------|---------|----------|------|------|
| Aroclor 1248 | * 1 | 8.395 | 8.405 | 0.01 | 50506.75 | 37.7 | 9.2 |
| | 2 | 8.298 | 8.305 | 0.007 | 30091.5 | 34.4 | |
| Aroclor 1254 | * 1 | 9.285 | 9.298 | 0.013 | 72473.6 | 44.5 | 32.1 |
| | 2 | 9.436 | 9.447 | 0.011 | 90375.4 | 61.5 | |
| Aroclor 1260 | * 1 | 11.031 | 11.04533 | 0.0143 | 56983.2 | 50.3 | 4.8 |
| | 2 | 11.641 | 11.65333 | 0.0123 | 70819.25 | 52.8 | |

* Column used for quantitation



DUAL COLUMN CONFIRMATION SUMMARY

Laboratory: Analytical Resources, LLC SDG: 23A0180
 Client: Anchor OEA, LLC Project: AOC5 MR Phase 1
 Matrix: Sediment Laboratory ID: 23A0180-06 File ID: 02072304ECD7.D
 Sampled: 01/10/23 10:10 Prepared: 01/26/23 14:06 Analyzed: 02/07/23 13:44
 Solids: 55.94 Preparation: EPA 3546 (Microwave) Instrument: ECD7
 Batch: BLA0559 Sequence: SLB0109
 GC Column(1): ZB5 GC Column(2): ZB35

| COMPOUND | COL | RT | EXP RT | RT DIFF | AREA | CONC | RPD |
|--------------|-----|--------|----------|---------|----------|------|------|
| Aroclor 1248 | * 1 | 8.396 | 8.405 | 0.009 | 63007 | 221 | 15.6 |
| | 2 | 8.299 | 8.305 | 0.006 | 34919.25 | 189 | |
| Aroclor 1254 | 1 | 9.285 | 9.298 | 0.013 | 98191 | 246 | 21.1 |
| | * 2 | 9.438 | 9.447 | 0.009 | 94714.6 | 304 | |
| Aroclor 1260 | 1 | 11.033 | 11.04533 | 0.0123 | 46554.2 | 130 | 13.6 |
| | * 2 | 11.643 | 11.65333 | 0.0103 | 58049.25 | 149 | |

* Column used for quantitation



HOLDING TIME SUMMARY

Analysis: EPA 8082A

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

| Sample Name | Date Collected | Date Received | Date Prepared | Days to Prep | Max Days to Prep | Date Analyzed | Days to Analysis | Max Days to Analysis | Q |
|----------------------------------|-------------------|-------------------|-------------------|--------------|------------------|-------------------|------------------|----------------------|---|
| LDW23-SC1164 23A0180-01 | 01/10/23 08:05 | 01/10/23 17:10 | 01/26/23 14:06 | 16 | 365 | 02/06/23 19:01 | 11 | 40 | |
| LDW23-SC1164-FD 23A0180-02 | 01/10/23 08:05 | 01/10/23 17:10 | 01/26/23 14:06 | 16 | 365 | 02/06/23 19:22 | 11 | 40 | |
| LDW23-SC1158 23A0180-03 | 01/10/23 08:33 | 01/10/23 17:10 | 01/26/23 14:06 | 16 | 365 | 02/06/23 19:43 | 11 | 40 | |
| LDW23-SC1151 23A0180-04 | 01/10/23 09:07 | 01/10/23 17:10 | 01/26/23 14:06 | 16 | 365 | 02/05/23 06:19 | 10 | 40 | |
| LDW23-SC1145 23A0180-05 | 01/10/23 09:39 | 01/10/23 17:10 | 01/26/23 14:06 | 16 | 365 | 02/05/23 06:41 | 10 | 40 | |
| LDW23-SC1139 23A0180-06 | 01/10/23 10:10 | 01/10/23 17:10 | 01/26/23 14:06 | 16 | 365 | 02/07/23 13:44 | 12 | 40 | |
| LDW23-SC1066 23A0180-07 | 01/10/23 11:08 | 01/10/23 17:10 | 01/26/23 14:06 | 16 | 365 | 02/06/23 16:34 | 11 | 40 | |
| LDW23-SC1061 23A0180-08 | 01/10/23 10:45 | 01/10/23 17:10 | 01/26/23 14:06 | 16 | 365 | 02/06/23 20:46 | 11 | 40 | |
| LDW23-SC1117 23A0180-09 | 01/10/23 11:35 | 01/10/23 17:10 | 01/26/23 14:06 | 16 | 365 | 02/05/23 08:47 | 10 | 40 | |
| LDW23-SC1093 23A0180-10 | 01/10/23 12:26 | 01/10/23 17:10 | 01/26/23 14:06 | 16 | 365 | 02/06/23 21:28 | 11 | 40 | |
| LDW23-SC1094 23A0180-11 | 01/10/23 12:51 | 01/10/23 17:10 | 01/26/23 14:06 | 16 | 365 | 02/06/23 21:49 | 11 | 40 | |
| LDW23-SC1103 23A0180-12 | 01/10/23 13:23 | 01/10/23 17:10 | 01/26/23 14:06 | 16 | 365 | 02/06/23 22:10 | 11 | 40 | |
| LDW23-SC1100 23A0180-13 | 01/10/23 13:53 | 01/10/23 17:10 | 01/26/23 14:06 | 16 | 365 | 02/05/23 10:11 | 10 | 40 | |
| LDW23-SC1101 23A0180-14 | 01/10/23 14:13 | 01/10/23 17:10 | 01/26/23 14:06 | 15 | 365 | 02/06/23 23:34 | 11 | 40 | |
| LDW23-SC1096 23A0180-15 | 01/10/23 15:24 | 01/10/23 17:10 | 01/26/23 14:06 | 15 | 365 | 02/07/23 00:37 | 11 | 40 | |
| Matrix Spike BLA0559-MS1 | 01/10/23 14:13 | 01/10/23 17:10 | 01/26/23 14:06 | 15 | 365 | 02/06/23 23:55 | 11 | 40 | |
| Matrix Spike Dup BLA0559-MSD1 | 01/10/23 14:13 | 01/10/23 17:10 | 01/26/23 14:06 | 15 | 365 | 02/07/23 00:16 | 11 | 40 | |

* Indicates hold time exceedance.



METHOD DETECTION AND REPORTING LIMITS

EPA 8082A

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Matrix: Solid

Instrument: ECD7

| Analyte | MDL | RL | Units |
|-------------------|-----|-----|-------|
| Aroclor 1016 | 1.6 | 4.0 | ug/kg |
| Aroclor 1016 [2C] | 1.6 | 4.0 | ug/kg |
| Aroclor 1221 | 1.6 | 4.0 | ug/kg |
| Aroclor 1221 [2C] | 1.6 | 4.0 | ug/kg |
| Aroclor 1232 | 1.6 | 4.0 | ug/kg |
| Aroclor 1232 [2C] | 1.6 | 4.0 | ug/kg |
| Aroclor 1242 | 1.6 | 4.0 | ug/kg |
| Aroclor 1242 [2C] | 1.6 | 4.0 | ug/kg |
| Aroclor 1248 | 1.6 | 4.0 | ug/kg |
| Aroclor 1248 [2C] | 1.6 | 4.0 | ug/kg |
| Aroclor 1254 | 1.6 | 4.0 | ug/kg |
| Aroclor 1254 [2C] | 1.6 | 4.0 | ug/kg |
| Aroclor 1260 | 0.6 | 4.0 | ug/kg |
| Aroclor 1260 [2C] | 0.6 | 4.0 | ug/kg |

CERTIFICATE OF ANALYSIS

Catalog No: S-279N
Description: Tetrachloro-m-xylene
Lot: 0052481B-1
Solvent: N/A
Hazards: Refer to SDS for complete safety information

Date Certified: Jul 28, 2005
Expiration: Jul 28, 2015
Sample Size: 100 mg
Components: 1
Storage Condition: Ambient (>5 °C)



Signal Word: Warning

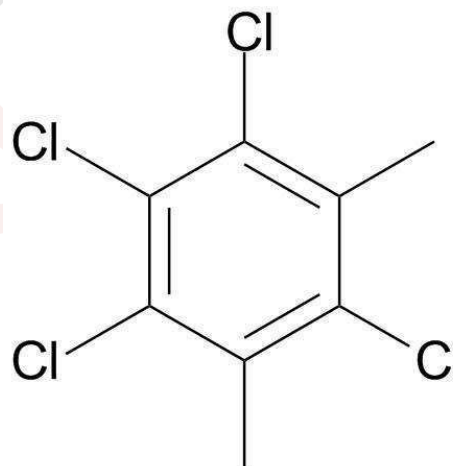
Certified Reference Material



| Component | CAS # | Purity % (GC/FID) | Prepared Concentration | Certified Analyte Concentration ¹ |
|-------------------------|----------|----------------------|---------------------------|---|
| Tetrachloro-meta-xylene | 877-09-8 | 96.0 | N/A | N/A |

Identification:

Molecular formula: C₈H₆Cl₄
Molecular weight: 243.94



C000147

tetrachlorometaxylene
Expires 1/15/2020

Prepared By Joshua Rains 1/15/2014

This Certified Reference Material was verified in accordance with ISO/IEC 17025

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

¹ The Uncertainty calculated for this product is ±2.4%. These values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

Metrological traceability is established through in-house validated methods.

Purity, if stated, is equal to 100% minus found impurity components. Impurity components have not been identified.

The information on this certificate may not be reproduced without the express permission of the manufacturer. See reverse side for additional information

Hazard Information: Please refer to the SDS for information regarding the hazards associated with using this material.

This product was prepared according to in-house procedures and is guaranteed to be homogeneous.

Certified By:

Larry Decker, Organic QC Manager



AccuStandard

125 Market Street
New Haven, CT 06513
(203) 786-5290

CERTIFICATE OF PRODUCT DATA

PRODUCT: C-209N

EXPIRATION: Jul 28, 2015

DESCRIPTION: 2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl

LOT #: 990521LB-AC

SOLVENT: N/A

This product is guaranteed accurate to $\pm 0.5\%$ of the Certified Analyte concentration through the Expiration Date on the Label.

| Component | CAS # | Purity % (GC/MS) | Prepared Concentration ¹ | Certified Analyte Concentration ² |
|---|-----------|---------------------|-------------------------------------|--|
| 2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl | 2051-24-3 | 100 | N/A | N/A |

2;

C000148

decachlorobiphenyl

Expires 1/15/2020

Prepared By Joshua Rains 1/15/2014

** I 1768 A*

Certified by:

R. Cooper

Please note: AccuStandard follows the U.S. conventions in reporting numerical values, on both certificates and labels.

A comma (,) is used to separate units of one-thousand or greater.
A period (.) is used as a decimal place marker.

1. All weights are traceable through National Institute of Standards & Technology, Test No. 822/254480
 2. Certified Analyte Concentration = Purity x Prepared Concentration. The Uncertainty calculated for this product is $\pm 0.5\%$ which is the Combined Uncertainty $U_c(y)$. It represents an estimated standard deviation equal to the positive square root of the total variance of the uncertainty of components. The Expanded Uncertainty is U which is $U_c(y) * K$ where K is the coverage factor at the 95% confidence level ($K=2$).
 3. A product with a suffix (-1A, -2B, etc.) on its lot# has had its expiration date extended and is identical to the same lot# without the suffix.

This product was manufactured in accordance to quality system requirements of ISO 9001:2000 and ISO 17025

** Recertified ~ 4-6-09 (S)*



Analytical Standard Record
Standard ID: C000148

Printed: 4/23/2015 11:54:44AM

| | | | |
|---------------------|--------------------|--------------|--------------------------|
| Description: | decachlorobiphenyl | Expires: | 15-Jan-2020 |
| Standard Type: | Other | Prepared: | 15-Jan-2014 |
| Solvent: | na/a | Prepared By: | Joshua Rains |
| Final Volume (mls): | 1 | Department: | Organics |
| Vials: | 1 | Last Edit: | 27-Feb-2015 13:03 by JGR |
| Vendor: | Accustandard | Lot #: | 9905211b-ac |
| Vendor Catalog #: | | | |

Comments

see i1768a
SOM calibrations added 06/12/14 sdrd

| Analyte | CAS Number | Concentration | Units |
|-------------------------|------------|---------------|-------|
| Decachlorobiphenyl [2C] | 2051-24-3 | 1000000 | ug/mL |
| Decachlorobiphenyl | 2051-24-3 | 1000000 | ug/mL |
| DCB 1660 [2C] | 2051-24-3 | 1000000 | ug/mL |
| DCB 1660 | 2051-24-3 | 1000000 | ug/mL |
| DCB [2C] | 2051-24-3 | 1000000 | ug/mL |
| DCB (A) [2C] | 2051-24-3 | 1000000 | ug/mL |
| DCB (A) | 2051-24-3 | 1000000 | ug/mL |
| DCB | 2051-24-3 | 1000000 | ug/mL |

Reviewed By

Date

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This product is included in Phenova's ISO/IEC 17025 and ISO Guide 34 Scopes of Accreditation

Catalog No.: AL0-101461

Lot Number: CL13053

Description: Aroclor 1254

Certification Date: November 29, 2018

Storage: 4 °C

Expiration Date: November 30, 2026

Provided As: 1 mL in 2 mL Ampoule in Hexane

Andrea Gill, Certified Reference Materials Manager

| Component | CAS # | Certified Value µg/mL | Expanded Uncertainty |
|--------------|------------|--------------------------|----------------------|
| Aroclor 1254 | 11097-69-1 | 1000 | ± 0.246% |

I 09808
Recd.
02/24/20



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IL11110613_US

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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101462

Lot Number: CL16516

Description: Aroclor 1260

Certification Date: March 4, 2021

Storage: 4 °C

Expiration Date: February 28, 2029

Provided As: 1 mL in 2 mL Ampoule in Hexane

Andrea Gill

Andrea Gill, Certified Reference Materials Manager

| Component | CAS # | Certified Value µg/mL | Expanded Uncertainty |
|--------------|------------|--------------------------|----------------------|
| Aroclor 1260 | 11096-82-5 | 1000 | ± 0.553% |

J006465



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Certified Reference Material

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Catalog No.: AL0-101468

Lot Number: CL14017

Description: Aroclor 1221

Certification Date: August 20, 2019

Storage: 4 °C

Expiration Date: August 31, 2027

Provided As: 1 mL in 2 mL Ampoule in Isooctane

Andrea Gill

Andrea Gill, Certified Reference Materials Manager

| Component | CAS # | Certified Value µg/mL | Expanded Uncertainty |
|--------------|------------|--------------------------|----------------------|
| Aroclor 1221 | 11104-28-2 | 1000 | ± 0.553% |

J006466
Recd of
06/18/21



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2. **Quality Standards:** Phenova is accredited by A2LA to ISO 17034³ and ISO/IEC 17025⁴ as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.
3. **Intended Use:** The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.
4. **Handling and Usage Notes:** Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.
5. **Hazardous Situation:** The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.
6. **Level of Homogeneity:** The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.
7. **Certified Value:** Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.
8. **Raw Materials and Purity:** Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.
9. **Expanded Uncertainty:** The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98⁵ and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$u_{CRM} = k \sqrt{u_M^2 + u_H^2 + u_{LTS}^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. **Metrological Traceability:** The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.
11. **Values Obtained During Product Testing:** This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.
12. **Period of Validity:** The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

¹ ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.

² ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.

³ ISO 17034 – General Requirements for the Competence of Reference Material Producers.

⁴ ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.

⁵ ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)



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Certified Reference Material

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Catalog No.: AL0-101469

Lot Number: CL14914

Description: Aroclor 1232

Certification Date: January 31, 2020

Storage: 4 °C

Expiration Date: January 31, 2028

Provided As: 1 mL in 2 mL Ampoule in Isooctane



Andrea Gill, Certified Reference Materials Manager

| Component | CAS # | Certified Value µg/mL | Expanded Uncertainty |
|--------------|------------|--------------------------|----------------------|
| Aroclor 1232 | 11141-16-5 | 1000 | ± 0.738% |

J 006467
reed
06/18/21



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2. **Quality Standards:** Phenova is accredited by A2LA to ISO 17034³ and ISO/IEC 17025⁴ as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.
3. **Intended Use:** The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.
4. **Handling and Usage Notes:** Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.
5. **Hazardous Situation:** The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.
6. **Level of Homogeneity:** The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.
7. **Certified Value:** Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.
8. **Raw Materials and Purity:** Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.
9. **Expanded Uncertainty:** The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98⁵ and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. **Metrological Traceability:** The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.
11. **Values Obtained During Product Testing:** This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.
12. **Period of Validity:** The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

- ¹ ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.
- ² ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
- ³ ISO 17034 – General Requirements for the Competence of Reference Material Producers.
- ⁴ ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
- ⁵ ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)



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Catalog No.: AL0-101470

Lot Number: CL14018

Description: Aroclor 1242

Certification Date: August 20, 2019

Storage: 4 °C

Expiration Date: August 31, 2027

Provided As: 1 mL in 2 mL Ampoule in Isooctane

Andrea Gill

Andrea Gill, Certified Reference Materials Manager

| Component | CAS # | Certified Value µg/mL | Expanded Uncertainty |
|--------------|------------|--------------------------|----------------------|
| Aroclor 1242 | 53469-21-9 | 1000 | ± 0.553% |

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feed JR
06/18/21



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3. **Intended Use:** The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.
4. **Handling and Usage Notes:** Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.
5. **Hazardous Situation:** The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.
6. **Level of Homogeneity:** The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.
7. **Certified Value:** Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.
8. **Raw Materials and Purity:** Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.
9. **Expanded Uncertainty:** The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98⁵ and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$u_{CRM} = k\sqrt{u_M^2 + u_H^2 + u_{LTS}^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. **Metrological Traceability:** The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.
11. **Values Obtained During Product Testing:** This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.
12. **Period of Validity:** The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

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² ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.

³ ISO 17034 – General Requirements for the Competence of Reference Material Producers.

⁴ ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.

⁵ ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)



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Catalog No.: AL0-101471

Lot Number: CL15384

Description: Aroclor 1248

Certification Date: June 19, 2020

Storage: 4 °C

Expiration Date: June 30, 2028

Provided As: 1 mL in 2 mL Ampoule in Isooctane

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

| Component | CAS # | Certified Value µg/mL | Expanded Uncertainty |
|--------------|------------|--------------------------|----------------------|
| Aroclor 1248 | 12672-29-6 | 1000 | ± 0.520% |

*# J006469
Reed, JR
06/18/21*



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- 3. Intended Use:** The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.
- 4. Handling and Usage Notes:** Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.
- 5. Hazardous Situation:** The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.
- 6. Level of Homogeneity:** The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.
- 7. Certified Value:** Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.
- 8. Raw Materials and Purity:** Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.
- 9. Expanded Uncertainty:** The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98⁵ and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).
$$u_{CRM} = k\sqrt{u_M^2 + u_H^2 + u_{LTS}^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.
- 10. Metrological Traceability:** The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.
- 11. Values Obtained During Product Testing:** This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.
- 12. Period of Validity:** The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

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- ² ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
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- ⁴ ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
- ⁵ ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)



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Certified Reference Material

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Catalog No.: AL0-101474

Lot Number: CL11330

Description: Aroclor 1262

Certification Date: May 15, 2015

Storage: 4 °C

Expiration Date: April 30, 2023

Provided As: 1 mL in 2 mL Ampoule in Isooctane

Revision Date: April 2, 2018



Andrea Gill, Certified Reference Materials Manager

| Component | CAS # | Certified Value µg/mL | Expanded Uncertainty |
|--------------|------------|--------------------------|----------------------|
| Aroclor 1262 | 37324-23-5 | 1000 | ± 0.516% |

J 00647H
Reed JK
06/18/21



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- 2. Quality Standards:** Phenova is accredited by A2LA to ISO Guide 34³ and ISO/IEC 17025⁴ as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.
- 3. Intended Use:** The product is manufactured for use in the calibration and calibration verification of chromatographic instrumentation performed in routine laboratory analysis.
- 4. Instruction:** Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all certified analytes in the mixture.
- 5. Hazardous Situation:** The product is intended for use by experienced professional personnel. A Material Safety Data Sheet (MSDS) is available at www.phenomenex.com/mysupport.
- 6. Level of Homogeneity:** The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.
- 7. Certified Value:** Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.
- 8. Raw Materials and Purity:** Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.
- 9. Expanded Uncertainty:** The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98⁵ and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).
$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.
- 10. Metrological Traceability:** The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO Guide 34. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.
- 11. Values Obtained During Product Testing:** This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO Guide 34.
- 12. Period of Validity:** The Certified Values and their uncertainties are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

- ¹ ISO Guide 31:2000(E) – Reference Materials – Contents of Certificates and Labels.
- ² ISO Guide 35:2006(E) – Reference Material – General and Statistical Principles for Certification.
- ³ ISO Guide 34:2009(E) – General Requirements for the Competence of Reference Material Producers.
- ⁴ ISO/IEC 17025:2005(E) – General Requirements for the Competence of Testing and Calibration Laboratories.
- ⁵ ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)



Reference Material Producer
Certificate No. 2427.02



Manufactured by Phenova, Inc.

Phenova's testing and calibration results are internationally recognized through the IAC-MRA. Phenova is an accredited ISO Guide 34 Reference Material Provider and ISO/IEC 17025 accredited Chemical Testing Laboratory.



Chemical Testing Laboratory
Certificate No. 2427.03

Certificate of Analysis



Phenova Certified Reference Materials are sold by Phenomenex.

411 Madrid Ave., Torrance, CA 90501 USA ■ Tel: 310-212-0555 ■ Fax: 310-328-7768 ■ info@phenomenex.com
Access your MSDS and digital C of A at www.phenomenex.com/mysupport. Re-order at www.phenomenex.com/standards

Certified Reference Material

This product is included in Phenova's ISO/IEC 17025 and ISO Guide 34 Scopes of Accreditation

Catalog No.: AL0-101475

Lot Number: CL11331

Description: Aroclor 1268

Certification Date: May 15, 2015

Storage: 4 °C

Expiration Date: April 30, 2023

Provided As: 1 mL in 2 mL Ampoule in Isooctane

Revision Date: April 2, 2018

Andrea Gill, Certified Reference Materials Manager

| Component | CAS # | Certified Value µg/mL | Expanded Uncertainty |
|--------------|------------|--------------------------|----------------------|
| Aroclor 1268 | 11100-14-4 | 1000 | ± 0.516% |

J006472
Rec'd. JK
06/18/21



Reference Material Producer
Certificate No. 2427.02



Manufactured by Phenova, Inc.

Phenova's testing and calibration results are internationally recognized through the ILAC MRA. Phenova is an accredited ISO Guide 34 Reference Material Provider and ISO/IEC 17025 accredited Chemical Testing Laboratory.



Chemical Testing Laboratory
Certificate No. 2427.03

IL1110613_US

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1. **Quality Document:** This Certificate of Analysis has been created in accordance with ISO Guide 31¹ and ISO Guide 35.²
2. **Quality Standards:** Phenova is accredited by A2LA to ISO Guide 34³ and ISO/IEC 17025⁴ as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.
3. **Intended Use:** The product is manufactured for use in the calibration and calibration verification of chromatographic instrumentation performed in routine laboratory analysis.
4. **Instruction:** Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all certified analytes in the mixture.
5. **Hazardous Situation:** The product is intended for use by experienced professional personnel. A Material Safety Data Sheet (MSDS) is available at www.phenomenex.com/mysupport.
6. **Level of Homogeneity:** The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.
7. **Certified Value:** Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.
8. **Raw Materials and Purity:** Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.
9. **Expanded Uncertainty:** The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98⁵ and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k \cdot \sqrt{uM^2 + uH^2 + uLTS^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. **Metrological Traceability:** The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO Guide 34. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.
11. **Values Obtained During Product Testing:** This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO Guide 34.
12. **Period of Validity:** The Certified Values and their uncertainties are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

- ¹ ISO Guide 31:2000(E) – Reference Materials – Contents of Certificates and Labels.
- ² ISO Guide 35:2006(E) – Reference Material – General and Statistical Principles for Certification.
- ³ ISO Guide 34:2009(E) – General Requirements for the Competence of Reference Material Producers.
- ⁴ ISO/IEC 17025:2005(E) – General Requirements for the Competence of Testing and Calibration Laboratories.
- ⁵ ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)



Reference Material Producer
Certificate No. 2427.02



Manufactured by Phenova, Inc.

Phenova's testing and calibration results are internationally recognized through the ILAC MRA. Phenova is an accredited ISO Guide 34 Reference Material Provider and ISO/IEC 17025 accredited Chemical Testing Laboratory.



Chemical Testing Laboratory
Certificate No. 2427.03

Certificate of Analysis

Produced by Phenova

6390 Joyce Drive STE 100, Golden, CO 80403 USA ■ Tel: 303-940-0033 ■ Fax: 303-940-0043 ■ info@phenova.com
Access your Safety Data Sheets and digital Certificates at www.phenova.com/documents.

Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101467

Lot Number: CL16555

Description: Aroclor 1016

Certification Date: June 22, 2021

Storage: 4 °C

Expiration Date: February 28, 2029

Provided As: 1 mL in 2 mL Ampoule in Isooctane

J012591

AROCLOR 1016

Expires 2/28/2029

Prepared By Joshua Rains 11/26/2021



Andrea Gill, Certified Reference Materials Manager

| Component | CAS # | Certified Value µg/mL | Expanded Uncertainty |
|--------------|------------|--------------------------|----------------------|
| Aroclor 1016 | 12674-11-2 | 1000 | ± 0.310% |

Certificate of Analysis

Produced by Phenova

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Access your Safety Data Sheets and digital Certificates at www.phenova.com/documents.

1. **Quality Document:** This Certificate of Analysis has been created in accordance with ISO Guide 31¹ and ISO Guide 35.²
2. **Quality Standards:** Phenova is accredited by A2LA to ISO 17034³ and ISO/IEC 17025⁴ as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.
3. **Intended Use:** The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.
4. **Handling and Usage Notes:** Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.
5. **Hazardous Situation:** The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.
6. **Level of Homogeneity:** The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.
7. **Certified Value:** Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.
8. **Raw Materials and Purity:** Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.
9. **Expanded Uncertainty:** The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98⁵ and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. **Metrological Traceability:** The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.
11. **Values Obtained During Product Testing:** This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.
12. **Period of Validity:** The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

- ¹ ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.
- ² ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
- ³ ISO 17034 – General Requirements for the Competence of Reference Material Producers.
- ⁴ ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
- ⁵ ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)



Phenova is an accredited ISO/IEC 17034 Reference Material
Producer and ISO/IEC 17025 accredited Chemical Testing Laboratory.





Certificate of Analysis

Aroclor 1016 Solution

Product Number: PP-282

Page: 1 of 1

Lot Number: CR-0761

Lot Issue Date: 28-Feb-2017

Expiration Date: 31-Mar-2025

This ISO Guide 34 Reference Material (RM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

| Analyte | CAS# | Analyte Lot | True Value |
|--------------|-------------|-------------|-------------------|
| Aroclor 1016 | 012674-11-2 | NT01016 | 100.2 ± 0.5 µg/mL |

Matrix: isooctane (2,2,4-trimethylpentane)

Storage: Store at Room Temperature (15° to 30°C).

*K1254
Recd JP
02/05/17*

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.



ISO 9001
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John Russo
President

Monica Bourgeois
Director of QA/RA



Certificate of Analysis

Product Name: Aroclor 1260 Standard

Product Number: PP-362-1

Lot Issue Date: 20-Jan-2021

Lot Number: 0006582048

Expiration Date: 28-Feb-2025

Description:

This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

| Analyte | CAS# | Analyte Lot | Concentration ± Uncertainty |
|--------------|-------------|-------------|-----------------------------|
| Aroclor 1260 | 011096-82-5 | NT01023 | 100.4 ± 0.5 µg/mL |

Matrix: isooctane (2,2,4-trimethylpentane)

K 1255

Storage Conditions: Store at Room Temperature (15° to 30°C).

Traceability:

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCCL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:

This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Intended Use:

This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Instructions for Use:

Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Hazards:

Refer to the Safety Data Sheet on www.agilent.com for information regarding this RM.

Expiration of Certification:

The certification of this RM is valid until the expiration date specified above, provided the RM is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the RM is damaged, contaminated, or otherwise modified.

Maintenance of Certification:

If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:

Monica Bourgeois

QMS Representative



ISO 17034 Cert
No. AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026

Page: 1 of 1

www.agilent.com/quality/
CSD-QA-015.1



ISO 17025 Cert
No. AT-1937



Certificate of Analysis ISO Guide 34

Aroclor 1242 Solution

Product Number: PP-312

Page: 1 of 1

Lot Number: CS-6293

Lot Issue Date: 04-Jan-2019

Expiration Date: 31-Jan-2023

This ISO Guide 34 Reference Material (RM) was manufactured and verified in accordance with Agilent's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

| Analyte | CAS# | Analyte Lot | True Value |
|--------------|-------------|-------------|-------------------|
| Aroclor 1242 | 053469-21-9 | NT01020 | 100.4 ± 0.5 µg/mL |

Matrix: isooctane (2,2,4-trimethylpentane)

Storage: Store at Room Temperature (15° to 30°C).

K1256

Agilent uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.


Monica Bourgeois
QMS Representative



ISO Guide 34 Cert No.
AR-1936

Produced in accordance with TUV USA Inc 56 100 18560026
registered ISO 9001 Quality Management System



ISO17025 Cert No.
AT-1937

ISO 17034



Agilent

Trusted Answers

Reference Material Certificate

Product Name: Aroclor 1248 Standard **Lot Number:** 0006626997
Product Number: PP-342-1 **Lot Issue Date:** 17-Aug-2021
Storage Conditions: Store at Room Temperature (15° to 30°C). **Expiration Date:** 30-Sep-2025

| Component Name | CERTIFIED VALUES | | | CAS# | Analyte Lot |
|----------------|------------------|----------------------|--|-------------|-------------|
| | Concentration | Expanded Uncertainty | | | |
| Aroclor 1248 | 100.3 | ± 0.5 µg/mL | | 012672-29-6 | NT01582 |

Matrix: isooctane (2,2,4-trimethylpentane)

K1257

Description:

This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed above.

Traceability:

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:

This analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Instructions for Use:

Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Safety:

Refer to the Safety Data Sheet on www.agilent.com for information regarding this analytical reference material.

Intended Use:

This analytical reference standard is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Expiration of Certification:

The certification of this analytical reference standard is valid until the expiration date specified above, provided the material is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the material is damaged, contaminated, or otherwise modified.



Certificate of Analysis

Aroclor 1254 Solution

Product Number: PP-352

Page: 1 of 1

Lot Number: CS-2321

Lot Issue Date: 04-May-2018

Expiration Date: 31-May-2026

This ISO Guide 34 Reference Material (RM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

| Analyte | CAS# | Analyte Lot | True Value |
|--------------|-------------|-------------|-------------------|
| Aroclor 1254 | 011097-69-1 | RM00922 | 100.4 ± 0.5 µg/mL |

Matrix: isooctane (2,2,4-trimethylpentane)

Storage: Store at Room Temperature (15° to 30°C).

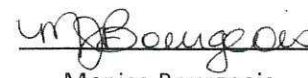
K-1250

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCCL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.



ISO 9001
Registered
TUV USA, Inc.


John Russo
President


Monica Bourgeois
Director of QA/RA



Certificate of Analysis

Product Name: Aroclor 1221 Standard

Product Number: PP-292-1

Lot Issue Date: 28-Apr-2020

Lot Number: 0006535333

Expiration Date: 31-May-2024

Description:

This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system, and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

| Analyte | CAS# | Analyte Lot | Concentration ± Uncertainty |
|--------------|-------------|-------------|-----------------------------|
| Aroclor 1221 | 011104-28-2 | RM04278 | 100.2 ± 0.5 µg/mL |

Matrix: isooctane (2,2,4-trimethylpentane)

Storage Conditions: Store at Room Temperature (15° to 30°C).

K1259

Traceability:

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCCL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:

This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Intended Use:

This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Instructions for Use:

Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Hazards:

Refer to the Safety Data Sheet on www.agilent.com for information regarding this RM.

Expiration of Certification:

The certification of this RM is valid until the expiration date specified above, provided the RM is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the RM is damaged, contaminated, or otherwise modified.

Maintenance of Certification:

If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:

Monica Bourgeois
QMS Representative



ISO 17034 Cert No.
AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026

Page: 1 of 1

www.agilent.com/quality/
CSD-QA-015.1



ISO 17025 Cert
No. AT-1937



Certificate of Analysis ISO 17034

Aroclor 1262 Standard

Product Number: PP-372-1

Page: 1 of 1

Lot Number: 0006499800

Lot Issue Date: 04-Nov-2019

Expiration Date: 30-Nov-2023

This ISO 17034 Reference Material (RM) was manufactured and verified in accordance with Agilent Technologies ISO 9001 registered quality system. A review of the gravimetric preparation data by our ISO 17025 accredited laboratory serves to verify the concentration of each analyte. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

| Analyte | CAS# | Analyte Lot | True Value |
|--------------|-------------|-------------|-------------------|
| Aroclor 1262 | 037324-23-5 | RM14263 | 100.0 ± 0.5 µg/mL |

Matrix: isooctane (2,2,4-trimethylpentane)

Storage: Store at Room Temperature (15° to 30°C).

K1260

Agilent uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.


Monica Bourgeois
QMS Representative



ISO 17034 Cert No.
AR-1936

Produced in accordance with TUV USA Inc 56 100 18560026
registered ISO 9001 Quality Management System



ISO 17025 Cert No.
AT-1937



Certificate of Analysis ISO 17034

Aroclor 1232 Standard

Product Number: PP-302-1

Page: 1 of 1

Lot Number: CF-2197A

Lot Issue Date: 05-Jul-2016

Expiration Date: 31-Aug-2023

This ISO 17034 Reference Material (RM) was manufactured and verified in accordance with Agilent's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

| Analyte | CAS# | Analyte Lot | True Value |
|--------------|-------------|-------------|-------------------|
| Aroclor 1232 | 011141-16-5 | NT01717 | 100.4 ± 0.5 µg/mL |

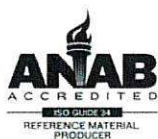
Matrix: isooctane (2,2,4-trimethylpentane)

Storage: Store at Room Temperature (15° to 30°C).

K1261

Agilent uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCCL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.


Monica Bourgeois
QMS Representative



ISO 17034 Cert No.
AR-1936

Produced in accordance with TUV USA Inc 56 100 18560026
registered ISO 9001 Quality Management System



ISO17025 Cert No.
AT-1937



Certificate of Analysis

Product Name: Aroclor 1268 Standard

Product Number: PP-382-1

Lot Issue Date: 09-Feb-2021

Lot Number: 0006587800

Expiration Date: 31-Mar-2029

Description:

This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

| Analyte | CAS# | Analyte Lot | Concentration \pm Uncertainty |
|--------------|-------------|-------------|---------------------------------|
| Aroclor 1268 | 011100-14-4 | RM00937 | 100.0 \pm 0.5 μ g/mL |

Matrix: isooctane (2,2,4-trimethylpentane)

Storage Conditions: Store at Room Temperature (15° to 30°C).

K1262

Traceability:

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:

This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Intended Use:

This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Instructions for Use:

Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Hazards:

Refer to the Safety Data Sheet on www.agilent.com for information regarding this RM.

Expiration of Certification:

The certification of this RM is valid until the expiration date specified above, provided the RM is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the RM is damaged, contaminated, or otherwise modified.

Maintenance of Certification:

If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:

Monica Bourgeois
QMS Representative



ISO 17034 Cert
No. AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026

Page: 1 of 1

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CSD-QA-015.1



ISO 17025 Cert
No. AT-1937

Certificate of Analysis



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Certified Reference Material

This product is included in Phenova's ISO/IEC 17025 and ISO Guide 34 Scopes of Accreditation

Catalog No.: AL0-101467

Lot Number: CL12975

Description: Aroclor 1016

Certification Date: November 19, 2018

Storage: 4 °C

Expiration Date: October 31, 2026

Provided As: 1 mL in 2 mL Ampoule in Isooctane

Andrea Gill, Certified Reference Materials Manager

| Component | CAS # | Certified Value µg/mL | Expanded Uncertainty |
|--------------|------------|--------------------------|----------------------|
| Aroclor 1016 | 12674-11-2 | 1000 | ± 0.553% |

125829



Reference Material Producer
Certificate No. 2427.02



Manufactured by Phenova, Inc.

Phenova's testing and calibration results are internationally recognized through the ILAC MRA. Phenova is an accredited ISO Guide 34 Reference Material Provider and ISO/IEC 17025 accredited Chemical Testing Laboratory.



Chemical Testing Laboratory
Certificate No. 2427.03

Certificate of Analysis



Phenova Certified Reference Materials are sold by Phenomenex.

411 Madrid Ave., Torrance, CA 90501 USA ■ Tel: 310-212-0555 ■ Fax: 310-328-7768 ■ info@phenomenex.com

Access your MSDS and digital C of A at www.phenomenex.com/mysupport. Re-order at www.phenomenex.com/standards

1. **Quality Document:** This Certificate of Analysis has been created in accordance with ISO Guide 31¹ and ISO Guide 35.²
2. **Quality Standards:** Phenova is accredited by A2LA to ISO Guide 34³ and ISO/IEC 17025⁴ as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.
3. **Intended Use:** The product is manufactured for use in the calibration and calibration verification of chromatographic instrumentation performed in routine laboratory analysis.
4. **Instruction:** Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all certified analytes in the mixture.
5. **Hazardous Situation:** The product is intended for use by experienced professional personnel. A Material Safety Data Sheet (MSDS) is available at www.phenomenex.com/mysupport.
6. **Level of Homogeneity:** The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.
7. **Certified Value:** Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.
8. **Raw Materials and Purity:** Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.
9. **Expanded Uncertainty:** The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98⁵ and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).
$$u_{CRM} = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.
10. **Metrological Traceability:** The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO Guide 34. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.
11. **Values Obtained During Product Testing:** This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO Guide 34.
12. **Period of Validity:** The Certified Values and their uncertainties are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

¹ ISO Guide 31:2000(E) – Reference Materials – Contents of Certificates and Labels.

² ISO Guide 35:2006(E) – Reference Material – General and Statistical Principles for Certification.

³ ISO Guide 34:2009(E) – General Requirements for the Competence of Reference Material Producers.

⁴ ISO/IEC 17025:2005(E) – General Requirements for the Competence of Testing and Calibration Laboratories.

⁵ ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)



Reference Material Producer
Certificate No. 2427.02



Manufactured by Phenova, Inc.

Phenova's testing and calibration results are internationally recognized through the ILAC MRA. Phenova is an accredited ISO Guide 34 Reference Material Provider and ISO/IEC 17025 accredited Chemical Testing Laboratory.



Chemical Testing Laboratory
Certificate No. 2427.03

IL111063_US

Certificate of Analysis

Produced by Phenova

6390 Joyce Drive STE 100, Golden, CO 80403 USA ■ Tel: 303-940-0033 ■ Fax: 303-940-0043 ■ info@phenova.com
Access your Safety Data Sheets and digital Certificates at www.phenova.com/documents.

Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101462

Lot Number: CL18021

Description: Aroclor 1260

Certification Date: February 14, 2022

Storage: 4 °C

Expiration Date: February 28, 2030

Provided As: 1 mL in 2 mL Ampoule in Hexane

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

| Component | CAS # | Certified Value µg/mL | Expanded Uncertainty |
|--------------|------------|--------------------------|----------------------|
| Aroclor 1260 | 11096-82-5 | 1000 | ± 0.553% |

K005830



Reference Material Producer
Certificate No. 2427.02



Phenova is an accredited ISO/IEC 17034 Reference Material
Producer and ISO/IEC 17025 accredited Chemical Testing Laboratory.



Chemical Testing Laboratory
Certificate No. 2427.03

Certificate of Analysis



Page 2 of 2

Produced by Phenova

6390 Joyce Drive STE 100, Golden, CO 80403 USA ■ Tel: 303-940-0033 ■ Fax: 303-940-0043 ■ info@phenova.com
Access your Safety Data Sheets and digital Certificates at www.phenova.com/documents.

- Quality Document:** This Certificate of Analysis has been created in accordance with ISO Guide 31¹ and ISO Guide 35.²
- Quality Standards:** Phenova is accredited by A2LA to ISO 17034³ and ISO/IEC 17025⁴ as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.
- Intended Use:** The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.
- Handling and Usage Notes:** Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.
- Hazardous Situation:** The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.
- Level of Homogeneity:** The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.
- Certified Value:** Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.
- Raw Materials and Purity:** Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.
- Expanded Uncertainty:** The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98⁵ and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).
$$u_{CRM} = k\sqrt{u_M^2 + u_H^2 + u_{LTS}^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.
- Metrological Traceability:** The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.
- Values Obtained During Product Testing:** This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.
- Period of Validity:** The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

- ¹ ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.
- ² ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
- ³ ISO 17034 – General Requirements for the Competence of Reference Material Producers.
- ⁴ ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
- ⁵ ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)



Reference Material Producer
Certificate No. 2427.02



Phenova is an accredited ISO/IEC 17034 Reference Material
Producer and ISO/IEC 17025 accredited Chemical Testing Laboratory.



Chemical Testing Laboratory
Certificate No. 2427.03

Recipient Copy

CHAIN-OF-CUSTODY RECORD

COC No. 15570

Order Number: CB014985

Date Shipped: 12/12/2022

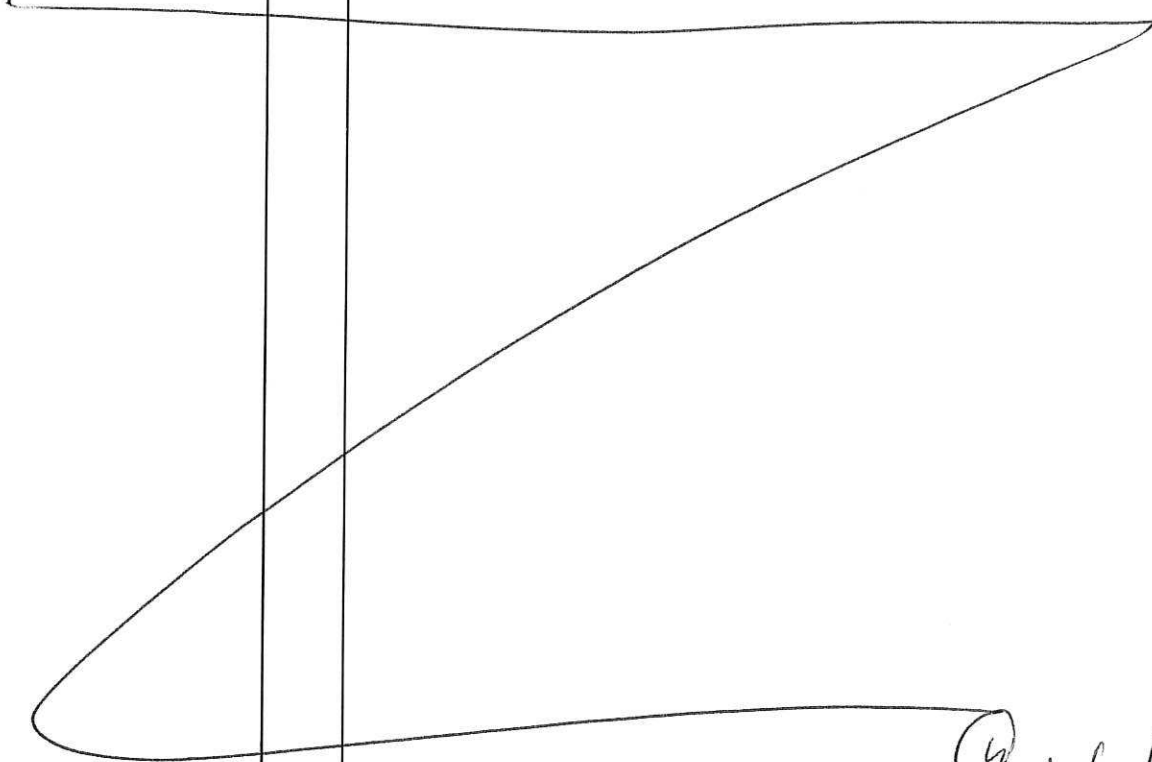
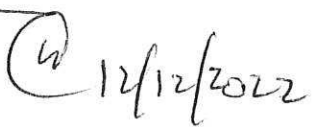
AirBill No(s):

From: QATS LABORATORY
2700 CHANDLER AVENUE, BLDG. B
LAS VEGAS, NV 89120
PHONE: 1-702-895-8712

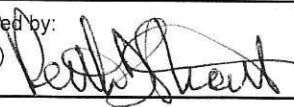

To: SUE DUNNIHOO
ANALYTICAL RESOURCES INC.
4611 S. 134TH PLACE SUITE 100
TUKWILA WA 98168
250-695-6207

519204142631

K011177
K011178
K011179

| Sample ID | Sigma ID | Qty | Description/Remarks | → Catalogue Number |
|---|----------|-----|-------------------------|--------------------|
| PSRM0168 | SR0431 | 1 | PUGET SOUND SEDIMENT RM | PS-SRM |
| PSRM0169 | SR0431 | 1 | PUGET SOUND SEDIMENT RM | PS-SRM |
| PSRM0171 | SR0431 | 1 | PUGET SOUND SEDIMENT RM | PS-SRM |
|  | | | | |
|  | | | | |
| PUGET SOUND SRM FOR DUWAMISH AOC4 PROJECT. | | | | |

Please use the enclosed Sample Preparation Instructions. If catalogue number(s) are listed at the top of the Sample Preparation Instructions use the Sample Preparation Instructions with catalogue number(s) matching the catalogue number(s) of each of the samples listed above.

| | | | |
|---|--------------------------------|--|--------------------------------|
| Relinquished by: (Signature)  | Date/Time (1400) 12/12/2022 | Received by: (Signature)  | Date/Time 12/12/22 11:15 |
| Custody Seal(s): <u>Present</u> /Absent | Remarks: | | |
| Relinquished by: (Signature) | Date/Time | Received by: (Signature) | Date/Time |



Form I
INORGANIC ANALYSIS DATA SHEET
EPA 6020B
Total Metals

| |
|--------------|
| LDW23-SC1164 |
|--------------|

Laboratory: Analytical Resources, LLC
 Client: Anchor QEA, LLC
 Project: AOC5 MR Phase 1
 Matrix: Sediment Laboratory ID: 23A0180-01 D SDG: 23A0180
 Sampled: 01/10/23 08:05 Prepared: 04/06/23 15:35 File ID: XDT_m2230407-080
 % Solids: 54.45 Preparation: SWN EPA 3050B Analyzed: 04/07/23 20:56
 Batch: BLD0055 Sequence: SLD0127 Initial/Final: 1.031 g Wet / 50 mL
 Instrument: ICPMS2 Calibration: GD00024

| CAS NO. | Analyte | Concentration (mg/kg dry) | Dilution Factor | MDL | MRL | Q |
|-----------|----------|---------------------------|-----------------|------|------|---|
| 7440-47-3 | Chromium | 27.1 | 20 | 0.46 | 0.89 | |
| 7439-92-1 | Lead | 36.9 | 20 | 0.09 | 0.18 | |
| 7440-22-4 | Silver | 0.37 | 20 | 0.04 | 0.36 | |



Form I
INORGANIC ANALYSIS DATA SHEET
EPA 6020B
Total Metals

| |
|-----------------|
| LDW23-SC1164-FD |
|-----------------|

Laboratory: Analytical Resources, LLC
 Client: Anchor QEA, LLC
 Project: AOC5 MR Phase 1
 Matrix: Sediment Laboratory ID: 23A0180-02 D SDG: 23A0180
 Sampled: 01/10/23 08:05 Prepared: 04/06/23 15:35 File ID: XDT_m2230407-081
 % Solids: 54.76 Preparation: SWN EPA 3050B Analyzed: 04/07/23 21:01
 Batch: BLD0055 Sequence: SLD0127 Initial/Final: 1.076 g Wet / 50 mL
 Instrument: ICPMS2 Calibration: GD00024

| CAS NO. | Analyte | Concentration (mg/kg dry) | Dilution Factor | MDL | MRL | Q |
|-----------|----------|---------------------------|-----------------|------|------|---|
| 7440-47-3 | Chromium | 24.9 | 20 | 0.44 | 0.85 | |
| 7439-92-1 | Lead | 35.5 | 20 | 0.09 | 0.17 | |
| 7440-22-4 | Silver | 0.41 | 20 | 0.04 | 0.34 | |



Form I
INORGANIC ANALYSIS DATA SHEET
EPA 6020B
Total Metals

| |
|---------------------|
| LDW23-SC1158 |
|---------------------|

Laboratory: Analytical Resources, LLC
 Client: Anchor QEA, LLC
 Project: AOC5 MR Phase 1
 Matrix: Sediment Laboratory ID: 23A0180-03 D SDG: 23A0180
 Sampled: 01/10/23 08:33 Prepared: 04/06/23 15:35 File ID: XDT_m2230407-082
 % Solids: 54.78 Preparation: SWN EPA 3050B Analyzed: 04/07/23 21:06
 Batch: BLD0055 Sequence: SLD0127 Initial/Final: 1.024 g Wet / 50 mL
 Instrument: ICPMS2 Calibration: GD00024

| CAS NO. | Analyte | Concentration (mg/kg dry) | Dilution Factor | MDL | MRL | Q |
|-----------|----------|---------------------------|-----------------|------|------|---|
| 7440-47-3 | Chromium | 24.6 | 20 | 0.46 | 0.89 | |
| 7439-92-1 | Lead | 27.0 | 20 | 0.09 | 0.18 | |
| 7440-22-4 | Silver | 0.26 | 20 | 0.04 | 0.36 | J |



Form I
INORGANIC ANALYSIS DATA SHEET
EPA 6020B
Total Metals

| |
|---------------------|
| LDW23-SC1151 |
|---------------------|

Laboratory: Analytical Resources, LLC
 Client: Anchor QEA, LLC
 Project: AOC5 MR Phase 1
 Matrix: Sediment Laboratory ID: 23A0180-04 D SDG: 23A0180
 Sampled: 01/10/23 09:07 Prepared: 04/06/23 15:35 File ID: XDT_m2230407-083
 % Solids: 55.59 Preparation: SWN EPA 3050B Analyzed: 04/07/23 21:10
 Batch: BLD0055 Sequence: SLD0127 Initial/Final: 1.095 g Wet / 50 mL
 Instrument: ICPMS2 Calibration: GD00024

| CAS NO. | Analyte | Concentration (mg/kg dry) | Dilution Factor | MDL | MRL | Q |
|-----------|----------|---------------------------|-----------------|------|------|---|
| 7440-47-3 | Chromium | 25.7 | 20 | 0.43 | 0.82 | |
| 7439-92-1 | Lead | 30.5 | 20 | 0.09 | 0.16 | |
| 7440-22-4 | Silver | 0.30 | 20 | 0.04 | 0.33 | J |



Form I
METHOD BLANK DATA SHEET
EPA 6020B
Total Metals

Blank

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Batch: BLD0055

Laboratory ID: BLD0055-BLK1

Prepared: 04/06/23 15:35

Matrix: Solid

Preparation: SWN EPA 3050B

Analyzed: 04/07/23 17:46

Sequence: SLD0127

Calibration: GD00024

Instrument: ICPMS2

| CAS NO. | Analyte | Concentration (mg/kg wet) | Dilution Factor | MDL | MRL | Q |
|-----------|-------------|---------------------------|-----------------|------|------|---|
| 7440-47-3 | Chromium-52 | ND | 20 | 0.26 | 0.50 | U |
| 7439-92-1 | Lead-208 | ND | 20 | 0.05 | 0.10 | U |
| 7440-22-4 | Silver-107 | ND | 20 | 0.02 | 0.20 | U |



LCS / LCS DUPLICATE RECOVERY

EPA 6020B

Total Metals

| | | | |
|----------------|----------------------------------|----------------|------------------------|
| Laboratory: | <u>Analytical Resources, LLC</u> | SDG: | <u>23A0180</u> |
| Client: | <u>Anchor QEA, LLC</u> | Project: | <u>AOC5 MR Phase 1</u> |
| Matrix: | <u>Solid</u> | Analyzed: | <u>04/07/23 17:51</u> |
| Batch: | <u>BLD0055</u> | Laboratory ID: | <u>BLD0055-BS1</u> |
| Preparation: | <u>SWN EPA 3050B</u> | Sequence Name: | <u>LCS</u> |
| Initial/Final: | <u>1 g / 50 mL</u> | | |

| COMPOUND | SPIKE ADDED (mg/kg wet) | LCS CONCENTRATION (mg/kg wet) | Q | LCS % REC. # | QC LIMITS REC. |
|-------------|----------------------------|----------------------------------|---|--------------|----------------|
| Chromium-52 | 25.0 | 26.0 | | 104 | 80 - 120 |
| Lead-208 | 25.0 | 26.1 | | 104 | 80 - 120 |
| Silver-107 | 25.0 | 27.0 | | 108 | 80 - 120 |

* Indicates values outside of QC limits



**INITIAL AND CONTINUING
CALIBRATION CHECK
EPA 6020B**

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: ICPMS2

Calibration: GD00024

Control Limit: +/- 10.00%

Sequence: SLD0127

| Lab Sample ID | Analyte | True | Found | %R | Units | Method |
|---------------|-------------|--------|-------|------|-------|-----------|
| SLD0127-ICV1 | Chromium-52 | 50.000 | 52.1 | 104 | ug/L | EPA 6020B |
| | Chromium-53 | 50.000 | 51.8 | 104 | ug/L | EPA 6020B |
| | Lead-208 | 50.000 | 50.5 | 101 | ug/L | EPA 6020B |
| | Silver-107 | 50.000 | 53.0 | 106 | ug/L | EPA 6020B |
| SLD0127-CCV1 | Chromium-52 | 50.000 | 50.9 | 102 | ug/L | EPA 6020B |
| | Chromium-53 | 50.000 | 51.5 | 103 | ug/L | EPA 6020B |
| | Lead-208 | 50.000 | 49.3 | 98.5 | ug/L | EPA 6020B |
| | Silver-107 | 50.000 | 50.2 | 100 | ug/L | EPA 6020B |
| SLD0127-CCV2 | Chromium-52 | 50.000 | 51.0 | 102 | ug/L | EPA 6020B |
| | Chromium-53 | 50.000 | 52.2 | 104 | ug/L | EPA 6020B |
| | Lead-208 | 50.000 | 48.5 | 96.9 | ug/L | EPA 6020B |
| | Silver-107 | 50.000 | 51.6 | 103 | ug/L | EPA 6020B |
| SLD0127-CCV3 | Chromium-52 | 50.000 | 51.3 | 103 | ug/L | EPA 6020B |
| | Chromium-53 | 50.000 | 51.3 | 103 | ug/L | EPA 6020B |
| | Lead-208 | 50.000 | 51.7 | 103 | ug/L | EPA 6020B |
| | Silver-107 | 50.000 | 51.8 | 104 | ug/L | EPA 6020B |
| SLD0127-CCV4 | Chromium-52 | 50.000 | 49.9 | 99.8 | ug/L | EPA 6020B |
| | Chromium-53 | 50.000 | 51.4 | 103 | ug/L | EPA 6020B |
| | Lead-208 | 50.000 | 49.0 | 97.9 | ug/L | EPA 6020B |
| | Silver-107 | 50.000 | 52.1 | 104 | ug/L | EPA 6020B |
| SLD0127-CCV5 | Chromium-52 | 50.000 | 50.2 | 100 | ug/L | EPA 6020B |
| | Chromium-53 | 50.000 | 51.8 | 104 | ug/L | EPA 6020B |
| | Lead-208 | 50.000 | 49.1 | 98.3 | ug/L | EPA 6020B |
| | Silver-107 | 50.000 | 50.7 | 101 | ug/L | EPA 6020B |
| SLD0127-CCV6 | Chromium-52 | 50.000 | 50.4 | 101 | ug/L | EPA 6020B |
| | Chromium-53 | 50.000 | 51.1 | 102 | ug/L | EPA 6020B |
| | Lead-208 | 50.000 | 49.1 | 98.2 | ug/L | EPA 6020B |
| | Silver-107 | 50.000 | 52.4 | 105 | ug/L | EPA 6020B |
| SLD0127-CCV7 | Chromium-52 | 50.000 | 51.2 | 102 | ug/L | EPA 6020B |
| | Chromium-53 | 50.000 | 51.9 | 104 | ug/L | EPA 6020B |
| | Lead-208 | 50.000 | 50.3 | 101 | ug/L | EPA 6020B |
| | Silver-107 | 50.000 | 52.0 | 104 | ug/L | EPA 6020B |
| SLD0127-CCV8 | Chromium-52 | 50.000 | 51.4 | 103 | ug/L | EPA 6020B |
| | Chromium-53 | 50.000 | 51.2 | 102 | ug/L | EPA 6020B |



**INITIAL AND CONTINUING
CALIBRATION CHECK
EPA 6020B**

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: ICPMS2

Calibration: GD00024

Control Limit: +/- 10.00%

Sequence: SLD0127

| Lab Sample ID | Analyte | True | Found | %R | Units | Method |
|---------------|-------------|--------|-------|------|-------|-----------|
| SLD0127-CCV8 | Lead-208 | 50.000 | 50.3 | 101 | ug/L | EPA 6020B |
| | Silver-107 | 50.000 | 50.0 | 100 | ug/L | EPA 6020B |
| SLD0127-CCV9 | Chromium-52 | 50.000 | 50.3 | 101 | ug/L | EPA 6020B |
| | Chromium-53 | 50.000 | 51.6 | 103 | ug/L | EPA 6020B |
| | Lead-208 | 50.000 | 49.9 | 99.8 | ug/L | EPA 6020B |
| | Silver-107 | 50.000 | 50.4 | 101 | ug/L | EPA 6020B |
| SLD0127-CCVA | Chromium-52 | 50.000 | 50.6 | 101 | ug/L | EPA 6020B |
| | Chromium-53 | 50.000 | 50.7 | 101 | ug/L | EPA 6020B |
| | Lead-208 | 50.000 | 50.5 | 101 | ug/L | EPA 6020B |
| | Silver-107 | 50.000 | 50.0 | 100 | ug/L | EPA 6020B |
| SLD0127-CCVB | Chromium-52 | 50.000 | 51.4 | 103 | ug/L | EPA 6020B |
| | Chromium-53 | 50.000 | 51.7 | 103 | ug/L | EPA 6020B |
| | Lead-208 | 50.000 | 50.8 | 102 | ug/L | EPA 6020B |
| | Silver-107 | 50.000 | 51.4 | 103 | ug/L | EPA 6020B |
| SLD0127-CCVC | Chromium-52 | 50.000 | 50.7 | 101 | ug/L | EPA 6020B |
| | Chromium-53 | 50.000 | 51.1 | 102 | ug/L | EPA 6020B |
| | Lead-208 | 50.000 | 50.7 | 101 | ug/L | EPA 6020B |
| | Silver-107 | 50.000 | 52.2 | 104 | ug/L | EPA 6020B |
| SLD0127-CCVD | Chromium-52 | 50.000 | 52.5 | 105 | ug/L | EPA 6020B |
| | Chromium-53 | 50.000 | 52.5 | 105 | ug/L | EPA 6020B |
| | Lead-208 | 50.000 | 52.6 | 105 | ug/L | EPA 6020B |
| | Silver-107 | 50.000 | 51.1 | 102 | ug/L | EPA 6020B |
| SLD0127-CCVE | Chromium-52 | 50.000 | 49.9 | 99.7 | ug/L | EPA 6020B |
| | Chromium-53 | 50.000 | 51.4 | 103 | ug/L | EPA 6020B |
| | Lead-208 | 50.000 | 51.1 | 102 | ug/L | EPA 6020B |
| | Silver-107 | 50.000 | 50.9 | 102 | ug/L | EPA 6020B |
| SLD0127-CCVF | Chromium-52 | 50.000 | 50.2 | 100 | ug/L | EPA 6020B |
| | Chromium-53 | 50.000 | 50.5 | 101 | ug/L | EPA 6020B |
| | Lead-208 | 50.000 | 51.0 | 102 | ug/L | EPA 6020B |
| | Silver-107 | 50.000 | 50.6 | 101 | ug/L | EPA 6020B |
| SLD0127-CCVG | Chromium-52 | 50.000 | 51.2 | 102 | ug/L | EPA 6020B |
| | Chromium-53 | 50.000 | 51.6 | 103 | ug/L | EPA 6020B |
| | Lead-208 | 50.000 | 51.6 | 103 | ug/L | EPA 6020B |
| | Silver-107 | 50.000 | 50.8 | 102 | ug/L | EPA 6020B |



**INITIAL AND CONTINUING
CALIBRATION CHECK
EPA 6020B**

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: ICPMS2

Calibration: GD00024

Control Limit: +/- 10.00%

Sequence: SLD0127

| Lab Sample ID | Analyte | True | Found | %R | Units | Method |
|---------------|-------------|--------|-------|-----|-------|-----------|
| SLD0127-CCVH | Chromium-52 | 50.000 | 51.4 | 103 | ug/L | EPA 6020B |
| | Chromium-53 | 50.000 | 51.6 | 103 | ug/L | EPA 6020B |
| | Lead-208 | 50.000 | 52.0 | 104 | ug/L | EPA 6020B |
| | Silver-107 | 50.000 | 50.7 | 101 | ug/L | EPA 6020B |
| SLD0127-CCVI | Chromium-52 | 50.000 | 50.1 | 100 | ug/L | EPA 6020B |
| | Chromium-53 | 50.000 | 51.4 | 103 | ug/L | EPA 6020B |
| | Lead-208 | 50.000 | 52.3 | 105 | ug/L | EPA 6020B |
| | Silver-107 | 50.000 | 50.7 | 101 | ug/L | EPA 6020B |
| SLD0127-CCVJ | Chromium-52 | 50.000 | 50.9 | 102 | ug/L | EPA 6020B |
| | Chromium-53 | 50.000 | 50.9 | 102 | ug/L | EPA 6020B |
| | Lead-208 | 50.000 | 52.5 | 105 | ug/L | EPA 6020B |
| | Silver-107 | 50.000 | 51.1 | 102 | ug/L | EPA 6020B |

* Values outside of QC limits



INSTRUMENT BLANKS
EPA 6020B

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: ICPMS2

Calibration: GD00024

Sequence: SLD0127

Date Analyzed: 04/07/23 14:35

| Lab Sample ID | Analyte | Found | MDL | MRL | Units | C |
|---------------|-------------|----------|--------|-------|-------|---|
| SLD0127-IBL1 | Chromium-52 | -0.00200 | 0.26 | 0.500 | ug/L | |
| SLD0127-IBL1 | Chromium-53 | -0.0110 | 0.239 | 0.500 | ug/L | |
| SLD0127-IBL1 | Lead-208 | 0.00100 | 0.0513 | 0.100 | ug/L | |
| SLD0127-IBL1 | Silver-107 | -0.00200 | 0.022 | 0.200 | ug/L | |
| SLD0127-ICB1 | Chromium-52 | -0.0120 | 0.26 | 0.500 | ug/L | |
| SLD0127-ICB1 | Chromium-53 | -0.0100 | 0.239 | 0.500 | ug/L | |
| SLD0127-ICB1 | Lead-208 | 0.00 | 0.0513 | 0.100 | ug/L | |
| SLD0127-ICB1 | Silver-107 | -0.00400 | 0.022 | 0.200 | ug/L | |
| SLD0127-CCB1 | Chromium-52 | -0.0140 | 0.26 | 0.500 | ug/L | |
| SLD0127-CCB1 | Chromium-53 | -0.0160 | 0.239 | 0.500 | ug/L | |
| SLD0127-CCB1 | Lead-208 | 0.00 | 0.0513 | 0.100 | ug/L | |
| SLD0127-CCB1 | Silver-107 | -0.00500 | 0.022 | 0.200 | ug/L | |
| SLD0127-IBL2 | Chromium-52 | 0.0110 | 0.26 | 0.500 | ug/L | |
| SLD0127-IBL2 | Chromium-53 | 0.0350 | 0.239 | 0.500 | ug/L | |
| SLD0127-IBL2 | Lead-208 | 0.00200 | 0.0513 | 0.100 | ug/L | |
| SLD0127-IBL2 | Silver-107 | -0.00400 | 0.022 | 0.200 | ug/L | |
| SLD0127-IBL3 | Chromium-52 | 0.0460 | 0.26 | 0.500 | ug/L | |
| SLD0127-IBL3 | Chromium-53 | 0.0800 | 0.239 | 0.500 | ug/L | |
| SLD0127-IBL3 | Lead-208 | 0.0620 | 0.0513 | 0.100 | ug/L | |
| SLD0127-IBL3 | Silver-107 | 0.0290 | 0.022 | 0.200 | ug/L | |
| SLD0127-CCB2 | Chromium-52 | 0.00700 | 0.26 | 0.500 | ug/L | |
| SLD0127-CCB2 | Chromium-53 | 0.00900 | 0.239 | 0.500 | ug/L | |
| SLD0127-CCB2 | Lead-208 | 0.00 | 0.0513 | 0.100 | ug/L | |
| SLD0127-CCB2 | Silver-107 | -0.00900 | 0.022 | 0.200 | ug/L | |
| SLD0127-CCB3 | Chromium-52 | -0.00400 | 0.26 | 0.500 | ug/L | |
| SLD0127-CCB3 | Chromium-53 | -0.00900 | 0.239 | 0.500 | ug/L | |
| SLD0127-CCB3 | Lead-208 | 0.00 | 0.0513 | 0.100 | ug/L | |
| SLD0127-CCB3 | Silver-107 | -0.00100 | 0.022 | 0.200 | ug/L | |
| SLD0127-IBL4 | Chromium-52 | 0.0370 | 0.26 | 0.500 | ug/L | |
| SLD0127-IBL4 | Chromium-53 | 0.0520 | 0.239 | 0.500 | ug/L | |
| SLD0127-IBL4 | Lead-208 | -0.00100 | 0.0513 | 0.100 | ug/L | |
| SLD0127-IBL4 | Silver-107 | -0.00300 | 0.022 | 0.200 | ug/L | |
| SLD0127-CCB4 | Chromium-52 | 0.00700 | 0.26 | 0.500 | ug/L | |
| SLD0127-CCB4 | Chromium-53 | 0.0280 | 0.239 | 0.500 | ug/L | |
| SLD0127-CCB4 | Lead-208 | 0.00100 | 0.0513 | 0.100 | ug/L | |



INSTRUMENT BLANKS
EPA 6020B

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: ICPMS2

Calibration: GD00024

Sequence: SLD0127

Date Analyzed: 04/07/23 17:38

| Lab Sample ID | Analyte | Found | MDL | MRL | Units | C |
|---------------|-------------|----------|--------|-------|-------|---|
| SLD0127-CCB4 | Silver-107 | -0.00200 | 0.022 | 0.200 | ug/L | |
| SLD0127-IBL5 | Chromium-52 | 0.00400 | 0.26 | 0.500 | ug/L | |
| SLD0127-IBL5 | Chromium-53 | 0.0110 | 0.239 | 0.500 | ug/L | |
| SLD0127-IBL5 | Lead-208 | 0.0150 | 0.0513 | 0.100 | ug/L | |
| SLD0127-IBL5 | Silver-107 | 0.00600 | 0.022 | 0.200 | ug/L | |
| SLD0127-CCB5 | Chromium-52 | 0.00800 | 0.26 | 0.500 | ug/L | |
| SLD0127-CCB5 | Chromium-53 | -0.00600 | 0.239 | 0.500 | ug/L | |
| SLD0127-CCB5 | Lead-208 | 0.00100 | 0.0513 | 0.100 | ug/L | |
| SLD0127-CCB5 | Silver-107 | -0.00200 | 0.022 | 0.200 | ug/L | |
| SLD0127-IBL6 | Chromium-52 | -0.0310 | 0.26 | 0.500 | ug/L | |
| SLD0127-IBL6 | Chromium-53 | -0.0120 | 0.239 | 0.500 | ug/L | |
| SLD0127-IBL6 | Lead-208 | 0.00 | 0.0513 | 0.100 | ug/L | |
| SLD0127-IBL6 | Silver-107 | -0.00100 | 0.022 | 0.200 | ug/L | |
| SLD0127-CCB6 | Chromium-52 | -0.0260 | 0.26 | 0.500 | ug/L | |
| SLD0127-CCB6 | Chromium-53 | -0.0250 | 0.239 | 0.500 | ug/L | |
| SLD0127-CCB6 | Lead-208 | 0.00 | 0.0513 | 0.100 | ug/L | |
| SLD0127-CCB6 | Silver-107 | -0.00100 | 0.022 | 0.200 | ug/L | |
| SLD0127-IBL7 | Chromium-52 | -0.0300 | 0.26 | 0.500 | ug/L | |
| SLD0127-IBL7 | Chromium-53 | -0.0230 | 0.239 | 0.500 | ug/L | |
| SLD0127-IBL7 | Lead-208 | -0.00100 | 0.0513 | 0.100 | ug/L | |
| SLD0127-IBL7 | Silver-107 | -0.00400 | 0.022 | 0.200 | ug/L | |
| SLD0127-CCB7 | Chromium-52 | 0.00300 | 0.26 | 0.500 | ug/L | |
| SLD0127-CCB7 | Chromium-53 | -0.0230 | 0.239 | 0.500 | ug/L | |
| SLD0127-CCB7 | Lead-208 | 0.00300 | 0.0513 | 0.100 | ug/L | |
| SLD0127-CCB7 | Silver-107 | 0.00200 | 0.022 | 0.200 | ug/L | |
| SLD0127-IBL8 | Chromium-52 | 0.00700 | 0.26 | 0.500 | ug/L | |
| SLD0127-IBL8 | Chromium-53 | -0.0220 | 0.239 | 0.500 | ug/L | |
| SLD0127-IBL8 | Lead-208 | 0.00200 | 0.0513 | 0.100 | ug/L | |
| SLD0127-IBL8 | Silver-107 | -0.00400 | 0.022 | 0.200 | ug/L | |
| SLD0127-CCB8 | Chromium-52 | -0.0300 | 0.26 | 0.500 | ug/L | |
| SLD0127-CCB8 | Chromium-53 | -0.0280 | 0.239 | 0.500 | ug/L | |
| SLD0127-CCB8 | Lead-208 | 0.00 | 0.0513 | 0.100 | ug/L | |
| SLD0127-CCB8 | Silver-107 | -0.00200 | 0.022 | 0.200 | ug/L | |
| SLD0127-IBL9 | Chromium-52 | -0.00400 | 0.26 | 0.500 | ug/L | |
| SLD0127-IBL9 | Chromium-53 | -0.0310 | 0.239 | 0.500 | ug/L | |
| SLD0127-IBL9 | Lead-208 | -0.00100 | 0.0513 | 0.100 | ug/L | |



INSTRUMENT BLANKS
EPA 6020B

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: ICPMS2

Calibration: GD00024

Sequence: SLD0127

Date Analyzed: 04/07/23 22:29

| Lab Sample ID | Analyte | Found | MDL | MRL | Units | C |
|---------------|-------------|----------|--------|-------|-------|---|
| SLD0127-IBL9 | Silver-107 | -0.00300 | 0.022 | 0.200 | ug/L | |
| SLD0127-CCB9 | Chromium-52 | 0.00100 | 0.26 | 0.500 | ug/L | |
| SLD0127-CCB9 | Chromium-53 | -0.0240 | 0.239 | 0.500 | ug/L | |
| SLD0127-CCB9 | Lead-208 | 0.00 | 0.0513 | 0.100 | ug/L | |
| SLD0127-CCB9 | Silver-107 | -0.00200 | 0.022 | 0.200 | ug/L | |
| SLD0127-IBLA | Chromium-52 | -0.0310 | 0.26 | 0.500 | ug/L | |
| SLD0127-IBLA | Chromium-53 | -0.0320 | 0.239 | 0.500 | ug/L | |
| SLD0127-IBLA | Lead-208 | -0.00100 | 0.0513 | 0.100 | ug/L | |
| SLD0127-IBLA | Silver-107 | -0.00300 | 0.022 | 0.200 | ug/L | |
| SLD0127-CCBA | Chromium-52 | -0.0110 | 0.26 | 0.500 | ug/L | |
| SLD0127-CCBA | Chromium-53 | -0.0350 | 0.239 | 0.500 | ug/L | |
| SLD0127-CCBA | Lead-208 | 0.00 | 0.0513 | 0.100 | ug/L | |
| SLD0127-CCBA | Silver-107 | -0.00100 | 0.022 | 0.200 | ug/L | |
| SLD0127-CCBB | Chromium-52 | -0.0290 | 0.26 | 0.500 | ug/L | |
| SLD0127-CCBB | Chromium-53 | -0.00200 | 0.239 | 0.500 | ug/L | |
| SLD0127-CCBB | Lead-208 | 0.00 | 0.0513 | 0.100 | ug/L | |
| SLD0127-CCBB | Silver-107 | 0.00100 | 0.022 | 0.200 | ug/L | |
| SLD0127-IBLC | Chromium-52 | -0.0240 | 0.26 | 0.500 | ug/L | |
| SLD0127-IBLC | Chromium-53 | 0.00600 | 0.239 | 0.500 | ug/L | |
| SLD0127-IBLC | Lead-208 | -0.00100 | 0.0513 | 0.100 | ug/L | |
| SLD0127-IBLC | Silver-107 | -0.00100 | 0.022 | 0.200 | ug/L | |
| SLD0127-CCBC | Chromium-52 | -0.0440 | 0.26 | 0.500 | ug/L | |
| SLD0127-CCBC | Chromium-53 | 0.00400 | 0.239 | 0.500 | ug/L | |
| SLD0127-CCBC | Lead-208 | 0.00200 | 0.0513 | 0.100 | ug/L | |
| SLD0127-CCBC | Silver-107 | 0.00400 | 0.022 | 0.200 | ug/L | |
| SLD0127-IBLD | Chromium-52 | 0.00500 | 0.26 | 0.500 | ug/L | |
| SLD0127-IBLD | Chromium-53 | 0.0290 | 0.239 | 0.500 | ug/L | |
| SLD0127-IBLD | Lead-208 | 0.00 | 0.0513 | 0.100 | ug/L | |
| SLD0127-IBLD | Silver-107 | 0.0300 | 0.022 | 0.200 | ug/L | |
| SLD0127-CCBD | Chromium-52 | -0.0360 | 0.26 | 0.500 | ug/L | |
| SLD0127-CCBD | Chromium-53 | 0.00 | 0.239 | 0.500 | ug/L | |
| SLD0127-CCBD | Lead-208 | -0.00200 | 0.0513 | 0.100 | ug/L | |
| SLD0127-CCBD | Silver-107 | 0.0360 | 0.022 | 0.200 | ug/L | |
| SLD0127-IBLE | Chromium-52 | 0.0150 | 0.26 | 0.500 | ug/L | |
| SLD0127-IBLE | Chromium-53 | 0.00600 | 0.239 | 0.500 | ug/L | |
| SLD0127-IBLE | Lead-208 | -0.00100 | 0.0513 | 0.100 | ug/L | |



INSTRUMENT BLANKS
EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS2
Sequence: SLD0127

SDG: 23A0180
Project: AOC5 MR Phase 1
Calibration: GD00024
Date Analyzed: 04/08/23 02:48

| Lab Sample ID | Analyte | Found | MDL | MRL | Units | C |
|---------------|-------------|----------|--------|-------|-------|---|
| SLD0127-IBLE | Silver-107 | 0.0160 | 0.022 | 0.200 | ug/L | |
| SLD0127-CCBE | Chromium-52 | -0.00200 | 0.26 | 0.500 | ug/L | |
| SLD0127-CCBE | Chromium-53 | 0.00800 | 0.239 | 0.500 | ug/L | |
| SLD0127-CCBE | Lead-208 | -0.00200 | 0.0513 | 0.100 | ug/L | |
| SLD0127-CCBE | Silver-107 | 0.0140 | 0.022 | 0.200 | ug/L | |
| SLD0127-IBLF | Chromium-52 | -0.0250 | 0.26 | 0.500 | ug/L | |
| SLD0127-IBLF | Chromium-53 | 0.0460 | 0.239 | 0.500 | ug/L | |
| SLD0127-IBLF | Lead-208 | 0.00100 | 0.0513 | 0.100 | ug/L | |
| SLD0127-IBLF | Silver-107 | 0.00200 | 0.022 | 0.200 | ug/L | |
| SLD0127-CCBF | Chromium-52 | -0.0190 | 0.26 | 0.500 | ug/L | |
| SLD0127-CCBF | Chromium-53 | 0.0240 | 0.239 | 0.500 | ug/L | |
| SLD0127-CCBF | Lead-208 | -0.00200 | 0.0513 | 0.100 | ug/L | |
| SLD0127-CCBF | Silver-107 | 0.00500 | 0.022 | 0.200 | ug/L | |
| SLD0127-CCBG | Chromium-52 | -0.00200 | 0.26 | 0.500 | ug/L | |
| SLD0127-CCBG | Chromium-53 | -0.0190 | 0.239 | 0.500 | ug/L | |
| SLD0127-CCBG | Lead-208 | -0.00200 | 0.0513 | 0.100 | ug/L | |
| SLD0127-CCBG | Silver-107 | 0.00100 | 0.022 | 0.200 | ug/L | |
| SLD0127-IBLH | Chromium-52 | 0.0230 | 0.26 | 0.500 | ug/L | |
| SLD0127-IBLH | Chromium-53 | 0.0530 | 0.239 | 0.500 | ug/L | |
| SLD0127-IBLH | Lead-208 | 0.00100 | 0.0513 | 0.100 | ug/L | |
| SLD0127-IBLH | Silver-107 | -0.00300 | 0.022 | 0.200 | ug/L | |
| SLD0127-CCBH | Chromium-52 | 0.0150 | 0.26 | 0.500 | ug/L | |
| SLD0127-CCBH | Chromium-53 | 0.0120 | 0.239 | 0.500 | ug/L | |
| SLD0127-CCBH | Lead-208 | -0.00200 | 0.0513 | 0.100 | ug/L | |
| SLD0127-CCBH | Silver-107 | 0.00 | 0.022 | 0.200 | ug/L | |
| SLD0127-IBLI | Chromium-52 | -0.00100 | 0.26 | 0.500 | ug/L | |
| SLD0127-IBLI | Chromium-53 | -0.0250 | 0.239 | 0.500 | ug/L | |
| SLD0127-IBLI | Lead-208 | 0.00100 | 0.0513 | 0.100 | ug/L | |
| SLD0127-IBLI | Silver-107 | -0.00400 | 0.022 | 0.200 | ug/L | |
| SLD0127-CCBI | Chromium-52 | 0.0200 | 0.26 | 0.500 | ug/L | |
| SLD0127-CCBI | Chromium-53 | -0.0200 | 0.239 | 0.500 | ug/L | |
| SLD0127-CCBI | Lead-208 | 0.00200 | 0.0513 | 0.100 | ug/L | |
| SLD0127-CCBI | Silver-107 | 0.00400 | 0.022 | 0.200 | ug/L | |
| SLD0127-IBLJ | Chromium-52 | -0.00100 | 0.26 | 0.500 | ug/L | |
| SLD0127-IBLJ | Chromium-53 | 0.107 | 0.239 | 0.500 | ug/L | |
| SLD0127-IBLJ | Lead-208 | 0.00200 | 0.0513 | 0.100 | ug/L | |



INSTRUMENT BLANKS
EPA 6020B

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: ICPMS2

Calibration: GD00024

Sequence: SLD0127

Date Analyzed: 04/08/23 07:08

| Lab Sample ID | Analyte | Found | MDL | MRL | Units | C |
|---------------|-------------|----------|--------|-------|-------|---|
| SLD0127-IBLJ | Silver-107 | -0.00300 | 0.022 | 0.200 | ug/L | |
| SLD0127-CCBJ | Chromium-52 | -0.00900 | 0.26 | 0.500 | ug/L | |
| SLD0127-CCBJ | Chromium-53 | 0.0590 | 0.239 | 0.500 | ug/L | |
| SLD0127-CCBJ | Lead-208 | -0.00200 | 0.0513 | 0.100 | ug/L | |
| SLD0127-CCBJ | Silver-107 | -0.00300 | 0.022 | 0.200 | ug/L | |



ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Sequence: SLD0127

Instrument: ICPMS2

Calibration: GD00024

| Sample Name | Lab Sample ID | Lab File ID | Matrix | Analysis Date/Time |
|----------------------|---------------|------------------|--------|--------------------|
| CAL 0 | SLD0127-CAL1 | XDT_m2230407-006 | NA | 04/07/23 14:00 |
| CAL 1 - LOW CHECK | SLD0127-CAL2 | XDT_m2230407-007 | NA | 04/07/23 14:05 |
| CAL 2 | SLD0127-CAL3 | XDT_m2230407-008 | NA | 04/07/23 14:10 |
| CAL 3 | SLD0127-CAL4 | XDT_m2230407-009 | NA | 04/07/23 14:15 |
| CAL 4 | SLD0127-CAL5 | XDT_m2230407-010 | NA | 04/07/23 14:20 |
| CAL 5 | SLD0127-CAL6 | XDT_m2230407-011 | NA | 04/07/23 14:27 |
| RINSE | SLD0127-IBL1 | XDT_m2230407-012 | NA | 04/07/23 14:35 |
| Initial Cal Check | SLD0127-ICV1 | XDT_m2230407-014 | NA | 04/07/23 14:43 |
| Initial Cal Blank | SLD0127-ICB1 | XDT_m2230407-015 | NA | 04/07/23 14:51 |
| Calibration Check | SLD0127-CCV1 | XDT_m2230407-016 | NA | 04/07/23 14:56 |
| Calibration Blank | SLD0127-CCB1 | XDT_m2230407-017 | NA | 04/07/23 15:05 |
| Instrument RL Check | SLD0127-CRL1 | XDT_m2230407-018 | NA | 04/07/23 15:11 |
| Interference Check A | SLD0127-IFA1 | XDT_m2230407-019 | NA | 04/07/23 15:19 |
| Interference Check B | SLD0127-IFB1 | XDT_m2230407-020 | NA | 04/07/23 15:24 |
| LR200 | SLD0127-HCV1 | XDT_m2230407-021 | NA | 04/07/23 15:28 |
| LR300 | SLD0127-HCV2 | XDT_m2230407-022 | NA | 04/07/23 15:33 |
| Instrument Blank | SLD0127-IBL2 | XDT_m2230407-023 | NA | 04/07/23 15:41 |
| Instrument Blank | SLD0127-IBL3 | XDT_m2230407-024 | NA | 04/07/23 15:47 |
| Calibration Check | SLD0127-CCV2 | XDT_m2230407-025 | NA | 04/07/23 15:52 |
| Calibration Blank | SLD0127-CCB2 | XDT_m2230407-026 | NA | 04/07/23 16:00 |
| Calibration Check | SLD0127-CCV3 | XDT_m2230407-028 | NA | 04/07/23 16:14 |
| Calibration Blank | SLD0127-CCB3 | XDT_m2230407-029 | NA | 04/07/23 16:21 |
| ZZZZZ | BLD0180-BLK1 | XDT_m2230407-030 | Water | 04/07/23 16:27 |
| ZZZZZ | BLD0180-BS1 | XDT_m2230407-031 | Water | 04/07/23 16:32 |
| Instrument Blank | SLD0127-IBL4 | XDT_m2230407-039 | NA | 04/07/23 17:25 |
| Calibration Check | SLD0127-CCV4 | XDT_m2230407-040 | NA | 04/07/23 17:30 |
| Calibration Blank | SLD0127-CCB4 | XDT_m2230407-041 | NA | 04/07/23 17:38 |
| Blank | BLD0055-BLK1 | XDT_m2230407-042 | Solid | 04/07/23 17:46 |
| LCS | BLD0055-BS1 | XDT_m2230407-043 | Solid | 04/07/23 17:51 |



ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Sequence: SLD0127

Instrument: ICPMS2

Calibration: GD00024

| Sample Name | Lab Sample ID | Lab File ID | Matrix | Analysis Date/Time |
|-------------------|---------------|------------------|--------|--------------------|
| ZZZZZ | BLD0123-BLK1 | XDT_m2230407-044 | Solid | 04/07/23 17:55 |
| ZZZZZ | BLD0123-BS1 | XDT_m2230407-045 | Solid | 04/07/23 18:00 |
| ZZZZZ | 23A0179-01 | XDT_m2230407-046 | Solid | 04/07/23 18:05 |
| ZZZZZ | 23A0179-01 | XDT_m2230407-046 | Solid | 04/07/23 18:05 |
| ZZZZZ | 23A0179-01 | XDT_m2230407-046 | Solid | 04/07/23 18:05 |
| Instrument Blank | SLD0127-IBL5 | XDT_m2230407-051 | NA | 04/07/23 18:28 |
| Calibration Check | SLD0127-CCV5 | XDT_m2230407-052 | NA | 04/07/23 18:33 |
| Calibration Blank | SLD0127-CCB5 | XDT_m2230407-053 | NA | 04/07/23 18:41 |
| ZZZZZ | 23A0158-14 | XDT_m2230407-054 | Solid | 04/07/23 18:48 |
| ZZZZZ | 23A0158-14 | XDT_m2230407-054 | Solid | 04/07/23 18:48 |
| ZZZZZ | 23A0158-14 | XDT_m2230407-054 | Solid | 04/07/23 18:48 |
| ZZZZZ | 23A0158-15 | XDT_m2230407-055 | Solid | 04/07/23 18:52 |
| ZZZZZ | 23A0158-15 | XDT_m2230407-055 | Solid | 04/07/23 18:52 |
| ZZZZZ | 23A0158-15 | XDT_m2230407-055 | Solid | 04/07/23 18:52 |
| ZZZZZ | 23A0158-16 | XDT_m2230407-056 | Solid | 04/07/23 18:57 |
| ZZZZZ | 23A0158-16 | XDT_m2230407-056 | Solid | 04/07/23 18:57 |
| ZZZZZ | 23A0158-16 | XDT_m2230407-056 | Solid | 04/07/23 18:57 |
| ZZZZZ | 23A0206-02 | XDT_m2230407-057 | Solid | 04/07/23 19:02 |
| ZZZZZ | 23A0206-02 | XDT_m2230407-057 | Solid | 04/07/23 19:02 |
| ZZZZZ | 23A0206-02 | XDT_m2230407-057 | Solid | 04/07/23 19:02 |
| ZZZZZ | 23A0206-01 | XDT_m2230407-058 | Solid | 04/07/23 19:07 |
| ZZZZZ | 23A0206-01 | XDT_m2230407-058 | Solid | 04/07/23 19:07 |
| ZZZZZ | 23A0206-01 | XDT_m2230407-058 | Solid | 04/07/23 19:07 |
| ZZZZZ | BLD0123-DUP1 | XDT_m2230407-059 | Solid | 04/07/23 19:11 |
| ZZZZZ | BLD0123-MS1 | XDT_m2230407-060 | Solid | 04/07/23 19:16 |
| ZZZZZ | BLD0123-MSD1 | XDT_m2230407-061 | Solid | 04/07/23 19:21 |
| Instrument Blank | SLD0127-IBL6 | XDT_m2230407-063 | NA | 04/07/23 19:30 |
| Calibration Check | SLD0127-CCV6 | XDT_m2230407-064 | NA | 04/07/23 19:35 |
| Calibration Blank | SLD0127-CCB6 | XDT_m2230407-065 | NA | 04/07/23 19:42 |



ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Sequence: SLD0127

Instrument: ICPMS2

Calibration: GD00024

| Sample Name | Lab Sample ID | Lab File ID | Matrix | Analysis Date/Time |
|-------------------|---------------|------------------|--------|--------------------|
| ZZZZZ | 23A0179-02 | XDT_m2230407-066 | Solid | 04/07/23 19:47 |
| ZZZZZ | 23A0179-02 | XDT_m2230407-066 | Solid | 04/07/23 19:47 |
| ZZZZZ | 23A0179-02 | XDT_m2230407-066 | Solid | 04/07/23 19:47 |
| ZZZZZ | 23A0179-03 | XDT_m2230407-067 | Solid | 04/07/23 19:52 |
| ZZZZZ | 23A0179-03 | XDT_m2230407-067 | Solid | 04/07/23 19:52 |
| ZZZZZ | 23A0179-03 | XDT_m2230407-067 | Solid | 04/07/23 19:52 |
| ZZZZZ | 23A0179-04 | XDT_m2230407-068 | Solid | 04/07/23 19:57 |
| ZZZZZ | 23A0179-04 | XDT_m2230407-068 | Solid | 04/07/23 19:57 |
| ZZZZZ | 23A0179-04 | XDT_m2230407-068 | Solid | 04/07/23 19:57 |
| ZZZZZ | 23A0179-05 | XDT_m2230407-069 | Solid | 04/07/23 20:01 |
| ZZZZZ | 23A0179-05 | XDT_m2230407-069 | Solid | 04/07/23 20:01 |
| ZZZZZ | 23A0179-05 | XDT_m2230407-069 | Solid | 04/07/23 20:01 |
| ZZZZZ | 23A0179-06 | XDT_m2230407-070 | Solid | 04/07/23 20:06 |
| ZZZZZ | 23A0179-06 | XDT_m2230407-070 | Solid | 04/07/23 20:06 |
| ZZZZZ | 23A0179-06 | XDT_m2230407-070 | Solid | 04/07/23 20:06 |
| ZZZZZ | 23A0179-07 | XDT_m2230407-071 | Solid | 04/07/23 20:11 |
| ZZZZZ | 23A0179-07 | XDT_m2230407-071 | Solid | 04/07/23 20:11 |
| ZZZZZ | 23A0179-07 | XDT_m2230407-071 | Solid | 04/07/23 20:11 |
| ZZZZZ | 23A0179-08 | XDT_m2230407-072 | Solid | 04/07/23 20:16 |
| ZZZZZ | 23A0179-08 | XDT_m2230407-072 | Solid | 04/07/23 20:16 |
| ZZZZZ | 23A0179-08 | XDT_m2230407-072 | Solid | 04/07/23 20:16 |
| ZZZZZ | 23A0179-09 | XDT_m2230407-073 | Solid | 04/07/23 20:20 |
| ZZZZZ | 23A0179-09 | XDT_m2230407-073 | Solid | 04/07/23 20:20 |
| ZZZZZ | 23A0179-09 | XDT_m2230407-073 | Solid | 04/07/23 20:20 |
| ZZZZZ | 23A0179-10 | XDT_m2230407-074 | Solid | 04/07/23 20:25 |
| ZZZZZ | 23A0179-10 | XDT_m2230407-074 | Solid | 04/07/23 20:25 |
| ZZZZZ | 23A0179-10 | XDT_m2230407-074 | Solid | 04/07/23 20:25 |
| Instrument Blank | SLD0127-IBL7 | XDT_m2230407-075 | NA | 04/07/23 20:30 |
| Calibration Check | SLD0127-CCV7 | XDT_m2230407-076 | NA | 04/07/23 20:34 |



ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Sequence: SLD0127

Instrument: ICPMS2

Calibration: GD00024

| Sample Name | Lab Sample ID | Lab File ID | Matrix | Analysis Date/Time |
|-------------------|---------------|------------------|--------|--------------------|
| Calibration Blank | SLD0127-CCB7 | XDT_m2230407-077 | NA | 04/07/23 20:42 |
| ZZZZZ | 23A0179-11 | XDT_m2230407-078 | Solid | 04/07/23 20:47 |
| ZZZZZ | 23A0179-11 | XDT_m2230407-078 | Solid | 04/07/23 20:47 |
| ZZZZZ | 23A0179-11 | XDT_m2230407-078 | Solid | 04/07/23 20:47 |
| ZZZZZ | 23A0179-12 | XDT_m2230407-079 | Solid | 04/07/23 20:51 |
| ZZZZZ | 23A0179-12 | XDT_m2230407-079 | Solid | 04/07/23 20:51 |
| ZZZZZ | 23A0179-12 | XDT_m2230407-079 | Solid | 04/07/23 20:51 |
| LDW23-SC1164 | 23A0180-01 | XDT_m2230407-080 | Solid | 04/07/23 20:56 |
| LDW23-SC1164 | 23A0180-01 | XDT_m2230407-080 | Solid | 04/07/23 20:56 |
| LDW23-SC1164 | 23A0180-01 | XDT_m2230407-080 | Solid | 04/07/23 20:56 |
| LDW23-SC1164-FD | 23A0180-02 | XDT_m2230407-081 | Solid | 04/07/23 21:01 |
| LDW23-SC1164-FD | 23A0180-02 | XDT_m2230407-081 | Solid | 04/07/23 21:01 |
| LDW23-SC1164-FD | 23A0180-02 | XDT_m2230407-081 | Solid | 04/07/23 21:01 |
| LDW23-SC1158 | 23A0180-03 | XDT_m2230407-082 | Solid | 04/07/23 21:06 |
| LDW23-SC1158 | 23A0180-03 | XDT_m2230407-082 | Solid | 04/07/23 21:06 |
| LDW23-SC1158 | 23A0180-03 | XDT_m2230407-082 | Solid | 04/07/23 21:06 |
| LDW23-SC1151 | 23A0180-04 | XDT_m2230407-083 | Solid | 04/07/23 21:10 |
| LDW23-SC1151 | 23A0180-04 | XDT_m2230407-083 | Solid | 04/07/23 21:10 |
| LDW23-SC1151 | 23A0180-04 | XDT_m2230407-083 | Solid | 04/07/23 21:10 |
| ZZZZZ | 23A0206-03 | XDT_m2230407-084 | Solid | 04/07/23 21:15 |
| ZZZZZ | 23A0206-03 | XDT_m2230407-084 | Solid | 04/07/23 21:15 |
| ZZZZZ | 23A0206-03 | XDT_m2230407-084 | Solid | 04/07/23 21:15 |
| ZZZZZ | 23A0206-04 | XDT_m2230407-085 | Solid | 04/07/23 21:20 |
| ZZZZZ | 23A0206-04 | XDT_m2230407-085 | Solid | 04/07/23 21:20 |
| ZZZZZ | 23A0206-04 | XDT_m2230407-085 | Solid | 04/07/23 21:20 |
| ZZZZZ | 23A0206-05 | XDT_m2230407-086 | Solid | 04/07/23 21:25 |
| ZZZZZ | 23A0206-05 | XDT_m2230407-086 | Solid | 04/07/23 21:25 |
| ZZZZZ | 23A0206-05 | XDT_m2230407-086 | Solid | 04/07/23 21:25 |
| Instrument Blank | SLD0127-IBL8 | XDT_m2230407-087 | NA | 04/07/23 21:29 |



ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Sequence: SLD0127

Instrument: ICPMS2

Calibration: GD00024

| Sample Name | Lab Sample ID | Lab File ID | Matrix | Analysis Date/Time |
|-------------------|---------------|------------------|--------|--------------------|
| Calibration Check | SLD0127-CCV8 | XDT_m2230407-088 | NA | 04/07/23 21:34 |
| Calibration Blank | SLD0127-CCB8 | XDT_m2230407-089 | NA | 04/07/23 21:42 |
| ZZZZZ | 23A0206-06 | XDT_m2230407-090 | Solid | 04/07/23 21:46 |
| ZZZZZ | 23A0206-06 | XDT_m2230407-090 | Solid | 04/07/23 21:46 |
| ZZZZZ | 23A0206-06 | XDT_m2230407-090 | Solid | 04/07/23 21:46 |
| ZZZZZ | 23A0206-07 | XDT_m2230407-091 | Solid | 04/07/23 21:51 |
| ZZZZZ | 23A0206-07 | XDT_m2230407-091 | Solid | 04/07/23 21:51 |
| ZZZZZ | 23A0206-07 | XDT_m2230407-091 | Solid | 04/07/23 21:51 |
| ZZZZZ | 23A0206-08 | XDT_m2230407-092 | Solid | 04/07/23 21:56 |
| ZZZZZ | 23A0206-08 | XDT_m2230407-092 | Solid | 04/07/23 21:56 |
| ZZZZZ | 23A0206-08 | XDT_m2230407-092 | Solid | 04/07/23 21:56 |
| ZZZZZ | 23A0206-09 | XDT_m2230407-093 | Solid | 04/07/23 22:00 |
| ZZZZZ | 23A0206-09 | XDT_m2230407-093 | Solid | 04/07/23 22:00 |
| ZZZZZ | 23A0206-09 | XDT_m2230407-093 | Solid | 04/07/23 22:00 |
| ZZZZZ | 23A0206-10 | XDT_m2230407-094 | Solid | 04/07/23 22:05 |
| ZZZZZ | 23A0206-10 | XDT_m2230407-094 | Solid | 04/07/23 22:05 |
| ZZZZZ | 23A0206-10 | XDT_m2230407-094 | Solid | 04/07/23 22:05 |
| ZZZZZ | 23A0206-11 | XDT_m2230407-095 | Solid | 04/07/23 22:10 |
| ZZZZZ | 23A0206-11 | XDT_m2230407-095 | Solid | 04/07/23 22:10 |
| ZZZZZ | 23A0206-11 | XDT_m2230407-095 | Solid | 04/07/23 22:10 |
| ZZZZZ | 23A0206-12 | XDT_m2230407-096 | Solid | 04/07/23 22:15 |
| ZZZZZ | 23A0206-12 | XDT_m2230407-096 | Solid | 04/07/23 22:15 |
| ZZZZZ | 23A0206-12 | XDT_m2230407-096 | Solid | 04/07/23 22:15 |
| ZZZZZ | 23A0206-13 | XDT_m2230407-097 | Solid | 04/07/23 22:19 |
| ZZZZZ | 23A0206-13 | XDT_m2230407-097 | Solid | 04/07/23 22:19 |
| ZZZZZ | 23A0206-13 | XDT_m2230407-097 | Solid | 04/07/23 22:19 |
| ZZZZZ | 23A0206-14 | XDT_m2230407-098 | Solid | 04/07/23 22:24 |
| ZZZZZ | 23A0206-14 | XDT_m2230407-098 | Solid | 04/07/23 22:24 |
| ZZZZZ | 23A0206-14 | XDT_m2230407-098 | Solid | 04/07/23 22:24 |



ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Sequence: SLD0127

Instrument: ICPMS2

Calibration: GD00024

| Sample Name | Lab Sample ID | Lab File ID | Matrix | Analysis Date/Time |
|-------------------|---------------|------------------|--------|--------------------|
| Instrument Blank | SLD0127-IBL9 | XDT_m2230407-099 | NA | 04/07/23 22:29 |
| Calibration Check | SLD0127-CCV9 | XDT_m2230407-100 | NA | 04/07/23 22:34 |
| Calibration Blank | SLD0127-CCB9 | XDT_m2230407-101 | NA | 04/07/23 22:41 |
| ZZZZZ | 23A0158-05 | XDT_m2230407-102 | Solid | 04/07/23 22:46 |
| ZZZZZ | 23A0158-06 | XDT_m2230407-103 | Solid | 04/07/23 22:51 |
| ZZZZZ | 23A0158-07 | XDT_m2230407-104 | Solid | 04/07/23 22:55 |
| ZZZZZ | 23A0158-10 | XDT_m2230407-105 | Solid | 04/07/23 23:00 |
| ZZZZZ | 23A0157-01 | XDT_m2230407-106 | Solid | 04/07/23 23:05 |
| ZZZZZ | BLD0030-DUP2 | XDT_m2230407-107 | Solid | 04/07/23 23:09 |
| ZZZZZ | BLD0030-MS2 | XDT_m2230407-108 | Solid | 04/07/23 23:14 |
| ZZZZZ | BLD0030-MSD2 | XDT_m2230407-109 | Solid | 04/07/23 23:19 |
| Instrument Blank | SLD0127-IBLA | XDT_m2230407-111 | NA | 04/07/23 23:28 |
| Calibration Check | SLD0127-CCVA | XDT_m2230407-112 | NA | 04/07/23 23:33 |
| Calibration Blank | SLD0127-CCBA | XDT_m2230407-113 | NA | 04/07/23 23:41 |
| Calibration Check | SLD0127-CCVB | XDT_m2230407-115 | NA | 04/07/23 23:50 |
| Calibration Blank | SLD0127-CCBB | XDT_m2230407-116 | NA | 04/07/23 23:58 |
| ZZZZZ | 23A0157-06 | XDT_m2230407-119 | Solid | 04/08/23 00:12 |
| ZZZZZ | 23A0157-07 | XDT_m2230407-120 | Solid | 04/08/23 00:17 |
| ZZZZZ | 23A0157-08 | XDT_m2230407-121 | Solid | 04/08/23 00:21 |
| ZZZZZ | 23A0157-10 | XDT_m2230407-122 | Solid | 04/08/23 00:26 |
| ZZZZZ | 23A0157-12 | XDT_m2230407-123 | Solid | 04/08/23 00:31 |
| ZZZZZ | 23A0157-13 | XDT_m2230407-124 | Solid | 04/08/23 00:35 |
| Instrument Blank | SLD0127-IBLC | XDT_m2230407-126 | NA | 04/08/23 00:45 |
| Calibration Check | SLD0127-CCVC | XDT_m2230407-127 | NA | 04/08/23 00:50 |
| Calibration Blank | SLD0127-CCBC | XDT_m2230407-128 | NA | 04/08/23 00:57 |
| Instrument Blank | SLD0127-IBLD | XDT_m2230407-138 | NA | 04/08/23 01:46 |
| Calibration Check | SLD0127-CCVD | XDT_m2230407-139 | NA | 04/08/23 01:50 |
| Calibration Blank | SLD0127-CCBD | XDT_m2230407-140 | NA | 04/08/23 01:58 |
| Instrument Blank | SLD0127-IBLE | XDT_m2230407-150 | NA | 04/08/23 02:48 |



ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Sequence: SLD0127

Instrument: ICPMS2

Calibration: GD00024

| Sample Name | Lab Sample ID | Lab File ID | Matrix | Analysis Date/Time |
|-------------------|---------------|------------------|--------|--------------------|
| Calibration Check | SLD0127-CCVE | XDT_m2230407-151 | NA | 04/08/23 02:53 |
| Calibration Blank | SLD0127-CCBE | XDT_m2230407-152 | NA | 04/08/23 03:00 |
| Instrument Blank | SLD0127-IBLF | XDT_m2230407-162 | NA | 04/08/23 03:48 |
| Calibration Check | SLD0127-CCVF | XDT_m2230407-163 | NA | 04/08/23 03:53 |
| Calibration Blank | SLD0127-CCBF | XDT_m2230407-164 | NA | 04/08/23 04:00 |
| Calibration Check | SLD0127-CCVG | XDT_m2230407-166 | NA | 04/08/23 04:10 |
| Calibration Blank | SLD0127-CCBG | XDT_m2230407-167 | NA | 04/08/23 04:17 |
| Instrument Blank | SLD0127-IBLH | XDT_m2230407-177 | NA | 04/08/23 05:05 |
| Calibration Check | SLD0127-CCVH | XDT_m2230407-178 | NA | 04/08/23 05:10 |
| Calibration Blank | SLD0127-CCBH | XDT_m2230407-179 | NA | 04/08/23 05:18 |
| Instrument Blank | SLD0127-IBLI | XDT_m2230407-189 | NA | 04/08/23 06:05 |
| Calibration Check | SLD0127-CCVI | XDT_m2230407-190 | NA | 04/08/23 06:10 |
| Calibration Blank | SLD0127-CCBI | XDT_m2230407-191 | NA | 04/08/23 06:17 |
| Instrument Blank | SLD0127-IBLJ | XDT_m2230407-201 | NA | 04/08/23 07:08 |
| Calibration Check | SLD0127-CCVJ | XDT_m2230407-202 | NA | 04/08/23 07:13 |
| Calibration Blank | SLD0127-CCBJ | XDT_m2230407-203 | NA | 04/08/23 07:20 |



ICP INTERFERENCE CHECK SAMPLE
EPA 6020B

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: ICPMS2

Calibration: GD00024

Sequence: SLD0127

Standard ID: L003578

| Lab Sample ID | Analyte | True | Found | %R | Units |
|---------------|-------------|------|--------|----|-------|
| SLD0127-IFA1 | Chromium-52 | 0 | 0.7960 | | ug/L |
| | Chromium-53 | 0 | 3.9970 | | ug/L |
| | Lead-208 | 0 | 0.0360 | | ug/L |
| | Silver-107 | 0 | 0.0090 | | ug/L |

* Indicates %R outside of QC limits

NOTE: True value and %R are populated only for analytes found in the interference check standards, and will be seen only if those analytes were requested.



ICP INTERFERENCE CHECK SAMPLE
EPA 6020B

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: ICPMS2

Calibration: GD00024

Sequence: SLD0127

Standard ID: L003578

| Lab Sample ID | Analyte | True | Found | %R | Units |
|---------------|-------------|--------|--------|------|-------|
| SLD0127-IFB1 | Chromium-52 | 20.000 | 20.588 | 103 | ug/L |
| | Chromium-53 | 20.000 | 24.112 | 121 | ug/L |
| | Lead-208 | 0 | 0.0270 | | ug/L |
| | Silver-107 | 20.000 | 19.253 | 96.3 | ug/L |

* Indicates %R outside of QC limits

NOTE: True value and %R are populated only for analytes found in the interference check standards, and will be seen only if those analytes were requested.



DETECTION LEVEL STANDARD
EPA 6020B

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: ICPMS2

Calibration: GD00024

Sequence: SLD0127

Lab Sample ID: SLD0127-CRL1

| Analyte | True | Found | %R | Units | QC Limits |
|-------------|---------|-------|------|-------|-----------|
| Chromium-52 | 0.50000 | 0.544 | 109 | ug/L | 50 - 150 |
| Chromium-53 | 0.50000 | 0.527 | 105 | ug/L | 50 - 150 |
| Lead-208 | 0.10000 | 0.109 | 109 | ug/L | 50 - 150 |
| Silver-107 | 0.20000 | 0.198 | 99.0 | ug/L | 50 - 150 |

* Values outside of QC limits



**HIGH-CONCENTRATION
CALIBRATION VERIFICATION
EPA 6020B**

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Calibration: GD00024

Laboratory ID: SLD0127-HCV1

Sequence: SLD0127

Standard ID: L003671

| ANALYTE | EXPECTED (ug/L) | FOUND (ug/L) | % DRIFT | QC LIMIT |
|----------------|----------------------------|-------------------------|----------------|-----------------|
| Chromium-52 | 200.00 | 203 | 1.5 | 10.00 |
| Chromium-53 | 200.00 | 202 | 1.1 | 10.00 |
| Lead-208 | 200.00 | 197 | -1.6 | 10.00 |
| Silver-107 | 200.00 | 201 | 0.6 | 10.00 |

* Values outside of QC limits



HIGH-CONCENTRATION CALIBRATION VERIFICATION

EPA 6020B

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Calibration: GD00024

Laboratory ID: SLD0127-HCV2

Sequence: SLD0127

Standard ID: L003672

| ANALYTE | EXPECTED (ug/L) | FOUND (ug/L) | % DRIFT | QC LIMIT |
|-------------|--------------------|-----------------|---------|----------|
| Chromium-52 | 300.00 | 300 | -0.2 | 10.00 |
| Chromium-53 | 300.00 | 305 | 1.5 | 10.00 |
| Lead-208 | 300.00 | 297 | -1.2 | 10.00 |
| Silver-107 | 300.00 | 304 | 1.3 | 10.00 |

* Values outside of QC limits



HOLDING TIME SUMMARY

Analysis: EPA 6020B

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

| Sample Name | Date Collected | Date Received | Date Prepared | Days to Prep | Max Days to Prep | Date Analyzed | Days to Analysis | Max Days to Analysis | Q |
|-------------------------------|-------------------|-------------------|-------------------|--------------|------------------|-------------------|------------------|----------------------|---|
| LDW23-SC1164 23A0180-01 | 01/10/23 08:05 | 01/10/23 17:10 | 04/06/23 15:35 | 86 | 180 | 04/07/23 20:56 | 88 | 180 | |
| LDW23-SC1164-FD 23A0180-02 | 01/10/23 08:05 | 01/10/23 17:10 | 04/06/23 15:35 | 86 | 180 | 04/07/23 21:01 | 88 | 180 | |
| LDW23-SC1158 23A0180-03 | 01/10/23 08:33 | 01/10/23 17:10 | 04/06/23 15:35 | 86 | 180 | 04/07/23 21:06 | 88 | 180 | |
| LDW23-SC1151 23A0180-04 | 01/10/23 09:07 | 01/10/23 17:10 | 04/06/23 15:35 | 86 | 180 | 04/07/23 21:10 | 88 | 180 | |

* Indicates hold time exceedance.



**METHOD DETECTION
AND REPORTING LIMITS**

EPA 6020B

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Matrix: Solid

Instrument: ICPMS2

| Analyte | MDL | RL | Units |
|----------------|------------|-----------|--------------|
| Chromium-52 | 0.26 | 0.50 | mg/kg |
| Chromium-53 | 0.24 | 0.50 | mg/kg |
| Lead-208 | 0.05 | 0.10 | mg/kg |
| Silver-107 | 0.02 | 0.20 | mg/kg |

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution
Catalog Number: CGCU10
Lot Number: P2-CU682108
Matrix: 3% (v/v) HNO₃
Value / Analyte(s): 10 000 µg/mL ea:
Copper
Starting Material: Cu Metal
Starting Material Lot#: 2095
Starting Material Purity: 99.9996%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10013 ± 30 µg/mL
Density: 1.032 g/mL (measured at 20 ± 4 °C)

Assay Information:

| | |
|------------------------|---|
| Assay Method #1 | 9977 ± 50 µg/mL ICP Assay NIST SRM 3114 Lot Number: 121207 |
| Assay Method #2 | 10024 ± 26 µg/mL EDTA NIST SRM 928 Lot Number: 928 |
| Assay Method #3 | 10007 ± 46 µg/mL Calculated NIST SRM Lot Number: See Sec. 4.2 |

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char\ i}^2) / (\sum(1/u_{char\ j}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char} = [\sum(w_i)^2 (u_{char\ i})^2]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char\ a})$$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char\ a}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

| | | | | |
|-----------------|-----------------|-----------------|-----------------|-----------------|
| M Ag < 0.007542 | M Eu < 0.000942 | O Na < 0.001434 | M Se < 0.016971 | M Zn < 0.005657 |
| O Al < 0.000609 | O Fe < 0.008700 | M Nb < 0.000942 | O Si < 0.003052 | M Zr < 0.000942 |
| M As < 0.010371 | M Ga < 0.000942 | M Nd < 0.000942 | M Sm < 0.000942 | |
| M Au < 0.001885 | M Gd < 0.000942 | M Ni < 0.003781 | M Sn < 0.005657 | |
| O B < 0.003663 | M Ge < 0.005657 | M Os < 0.000942 | M Sr < 0.000942 | |
| M Ba < 0.004253 | M Hf < 0.000942 | O P < 0.031668 | M Ta < 0.000942 | |
| M Be < 0.000942 | O Hg < 0.007064 | M Pb < 0.005789 | M Tb < 0.000942 | |
| M Bi < 0.000942 | M Ho < 0.000942 | M Pd < 0.000942 | M Te < 0.004714 | |
| O Ca < 0.002304 | M In < 0.000942 | M Pr < 0.000942 | M Th < 0.000942 | |
| M Cd < 0.000942 | M Ir < 0.000942 | M Pt < 0.000942 | O Ti < 0.002801 | |
| M Ce < 0.000942 | O K < 0.000763 | M Rb < 0.000942 | M Tl < 0.000942 | |
| M Co < 0.001890 | M La < 0.000942 | M Re < 0.000942 | M Tm < 0.000942 | |
| M Cr < 0.005657 | O Li < 0.000243 | i Rh < | M U < 0.000942 | |
| M Cs < 0.000942 | M Lu < 0.000942 | M Ru < 0.039588 | M V < 0.003771 | |
| s Cu < | O Mg < 0.000320 | O S < 0.007174 | M W < 0.005657 | |
| M Dy < 0.000942 | O Mn < 0.000793 | M Sb < 0.001885 | M Y < 0.000942 | |
| M Er < 0.000942 | M Mo < 0.005657 | M Sc < 0.000942 | M Yb < 0.000942 | |

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 63.55 +2 6 Cu(H₂O)₆2+

Chemical Compatibility -Stable in HCl, HNO₃, H₂SO₄, HF, H₃PO₄. Avoid basic media. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO₃ / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO₃ / LDPE container.

Cu Containing Samples (Preparation and Solution) -Metal (soluble in HNO₃); Oxides (Soluble in HCl); Ores (Dissolve in HCl / HNO₃).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

| Technique/Line | Estimated D.L. | Order | Interferences (underlined indicates severe) |
|--------------------|-----------------|-------|---|
| ICP-MS 63 amu | 10 ppt | n/a | 40Ar23Na 47Ti16O, 14N12C37Cl, 16O12C35Cl, 23Na40Ca |
| ICP-OES 219.958 nm | 0.01/.002 µg/mL | 1 | Th, Ta, Nb, U, Hf |
| ICP-OES 224.700 nm | 0.01/.001 µg/mL | 1 | Pb, Ir, Ni, W |
| ICP-OES 324.754 nm | 0.06/.001 µg/mL | | Nb, U, Th, Mo, Hf |

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

August 24, 2019

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **August 24, 2023**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Manager, Quality Control



Certifying Officer:

Paul Gaines
CEO, Senior Technical Director



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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution
Catalog Number: CGPB10
Lot Number: S2-PB713228
Matrix: 0.5% (v/v) HNO₃
Value / Analyte(s): 10 000 µg/mL ea:
Lead
Starting Material: Lead Nitrate
Starting Material Lot#: 2343
Starting Material Purity: 99.9995%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10042 ± 31 µg/mL
Density: 1.015 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1 **10024 ± 41 µg/mL**
ICP Assay NIST SRM 3128 Lot Number: 101026

Assay Method #2 **10054 ± 32 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char\ i}^2) / (\sum(1/u_{char\ j}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char} = [\sum(w_i)^2 (u_{char\ i})^2]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char\ a})$$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char\ a}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES ($\mu\text{g/mL}$)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 μm .

| | | | | |
|-----------------|-----------------|-----------------|-----------------|-----------------|
| M Ag < 0.000310 | M Eu < 0.000310 | M Na < 0.001470 | M Se < 0.009100 | O Zn < 0.006155 |
| O Al < 0.017098 | O Fe < 0.002496 | M Nb < 0.000310 | O Si < 0.003761 | O Zr < 0.001700 |
| M As < 0.003100 | M Ga < 0.000310 | M Nd < 0.000310 | M Sm < 0.000310 | |
| M Au < 0.000910 | M Gd < 0.000310 | O Ni < 0.001709 | M Sn < 0.001300 | |
| O B < 0.005600 | M Ge < 0.002200 | M Os < 0.000310 | O Sr < 0.000444 | |
| O Ba < 0.007865 | M Hf < 0.000310 | O P < 0.038000 | M Ta < 0.000310 | |
| O Be < 0.000320 | M Hg < 0.002200 | s Pb < 0.000610 | M Tb < 0.000610 | |
| M Bi < 0.028000 | M Ho < 0.000310 | M Pd < 0.000610 | M Te < 0.000310 | |
| O Ca < 0.019834 | M In < 0.000310 | M Pr < 0.000310 | M Th < 0.000310 | |
| O Cd < 0.000630 | M Ir < 0.000310 | M Pt < 0.000910 | O Ti < 0.005129 | |
| M Ce < 0.004787 | O K < 0.008207 | M Rb < 0.006700 | M Tl < 0.016000 | |
| M Co < 0.000610 | M La < 0.001900 | M Re < 0.000310 | M Tm < 0.000310 | |
| O Cr < 0.001500 | O Li < 0.000110 | O Rh < 0.007700 | M U < 0.000310 | |
| M Cs < 0.006100 | M Lu < 0.000310 | M Ru < 0.001300 | M V < 0.001600 | |
| M Cu < 0.001600 | O Mg < 0.003317 | O S < 0.052000 | M W < 0.000910 | |
| M Dy < 0.000310 | O Mn < 0.001600 | O Sb < 0.015000 | M Y < 0.000310 | |
| M Er < 0.000310 | M Mo < 0.000610 | O Sc < 0.000630 | M Yb < 0.000310 | |

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.
- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.
- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 207.20 +2 6 Pb(H₂O)₆+2

Chemical Compatibility - Soluble in HCl, HF and HNO₃. Avoid H₂SO₄. Stable with most metals and inorganic anions forming insoluble carbonate, borate, sulfate, sulfite, sulfide, phosphate, oxalate, chromate, tannate, iodate, and cyanide in neutral aqueous media.

Stability - 2-100 ppb levels stable for months in 1% HNO₃ / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO₃ / LDPE container.

Pb Containing Samples (Preparation and Solution) -Metal (Best dissolved in 1:1 H₂O / HNO₃); Oxides (The many different Pb oxides are soluble in HNO₃ with the exception of PbO₂ which is soluble in HCl or HF); Ores and Alloys (Best attacked using 1:1 H₂O / HNO₃); Organic Matrices (Dry ash and dissolve in dilute HCl).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

| Technique/Line | Estimated D.L. | Order | Interferences (underlined indicates severe) |
|-----------------------|-----------------------|--------------|--|
| ICP-MS 208 amu | 5 ppt | n/a | 192Pt16O, 192Os16O |
| ICP-OES 168.215 nm | 0.03 / 0.003 µg/mL | 1 | Co |
| ICP-OES 217.000 nm | 0.09 / 0.03 µg/mL | 1 | W, Ir, Hf, Sb, Th |
| ICP-OES 220.353 nm | 0.04 / 0.006 µg/mL | 1 | Bi, Nb |

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

January 10, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **January 10, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution
Catalog Number: CGZN10
Lot Number: S2-ZN711249
Matrix: 2% (v/v) HNO₃
Value / Analyte(s): 10 000 µg/mL ea:
Zinc
Starting Material: Zinc Metal
Starting Material Lot#: 2349
Starting Material Purity: 99.9988%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 9992 ± 30 µg/mL
Density: 1.029 g/mL (measured at 20 ± 4 °C)

Assay Information:

| | |
|------------------------|---|
| Assay Method #1 | 9981 ± 56 µg/mL ICP Assay NIST SRM 3168a Lot Number: 120629 |
| Assay Method #2 | 9987 ± 32 µg/mL EDTA NIST SRM 928 Lot Number: 928 |
| Assay Method #3 | 10002 ± 32 µg/mL Calculated NIST SRM Lot Number: See Sec. 4.2 |

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{char i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char i}^2) / (\sum(1/u_{char j}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char} = [\sum(w_i)^2 (u_{char i}^2)]^{1/2}$ where $u_{char i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char a})$$

X_a = mean of Assay Method A with

$u_{char a}$ = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char a}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

| | | | | |
|-----------------|-----------------|-----------------|-----------------|-----------------|
| M Ag < 0.002000 | M Eu < 0.000500 | O Na < 0.008713 | M Se < 0.048000 | s Zn < |
| O Al < 0.011000 | O Fe < 0.015467 | M Nb < 0.000500 | O Si < 0.007842 | M Zr < 0.000500 |
| O As < 0.012000 | M Ga < 0.004900 | M Nd < 0.000500 | M Sm < 0.000500 | |
| M Au < 0.006500 | M Gd < 0.000500 | O Ni < 0.003049 | M Sn < 0.002614 | |
| O B < 0.019000 | M Ge < 0.009100 | M Os < 0.000500 | M Sr < 0.000500 | |
| M Ba < 0.000500 | M Hf < 0.000500 | O P < 0.059000 | M Ta < 0.000500 | |
| O Be < 0.000230 | O Hg < 0.003800 | M Pb < 0.016774 | M Tb < 0.000500 | |
| M Bi < 0.002400 | M Ho < 0.000500 | M Pd < 0.001000 | M Te < 0.017000 | |
| O Ca < 0.052283 | M In < 0.003500 | M Pr < 0.000500 | M Th < 0.000500 | |
| O Cd < 0.000588 | M Ir < 0.001000 | M Pt < 0.000500 | M Ti < 0.002000 | |
| M Ce < 0.000500 | O K < 0.017209 | M Rb < 0.002500 | M Tl < 0.000500 | |
| M Co < 0.000653 | M La < 0.000500 | M Re < 0.000500 | M Tm < 0.000500 | |
| O Cr < 0.001089 | O Li < 0.000230 | M Rh < 0.000500 | M U < 0.000500 | |
| M Cs < 0.000500 | M Lu < 0.000500 | M Ru < 0.005000 | M V < 0.000500 | |
| O Cu < 0.001938 | O Mg < 0.000871 | O S < 0.048000 | M W < 0.001000 | |
| M Dy < 0.000500 | O Mn < 0.000172 | M Sb < 0.004300 | M Y < 0.000500 | |
| M Er < 0.000500 | M Mo < 0.001500 | O Sc < 0.000900 | M Yb < 0.000500 | |

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.
- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.
- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 65.39 +2 4 Zn(OH)(aq)1+

Chemical Compatibility -Stable in HCl, HNO₃, H₂SO₄, HF, H₃PO₄. Avoid basic media forming insoluble carbonate and hydroxide. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO₃ / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO₃ / LDPE container.

Zn Containing Samples (Preparation and Solution) -Metal (soluble in HNO₃); Oxides (Soluble in HCl); Ores (Dissolve in HCl / HNO₃); Organic based (dry ash at 4500C and dissolve ash in HCl) (sulfuric/peroxide acid digestion)

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

| Technique/Line | Estimated D.L. | Order | Interferences (underlined indicates severe) |
|--------------------|--------------------|-------|--|
| ICP-MS 66 amu | 7 ppt | N/A | 50Ti16O,50Cr16O, 50V16O, 34S16O2, 32S16O18O, 32S17O2, 33S16O17O, 32S34S, 33S2 |
| ICP-OES 202.548 nm | 0.004/0.0002 µg/mL | 1 | Nb, Cu, Co, Hf |
| ICP-OES 206.200 nm | 0.006/0.0006 µg/mL | 1 | Sb, Ta, Bi, Os |
| ICP-OES 213.856 nm | 0.002/0.0004 µg/mL | 1 | Ni, Cu, V |

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

November 22, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **November 22, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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Christiansburg, VA 24073 USA
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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution
Catalog Number: CGSE10
Lot Number: S2-SE711004
Matrix: 3% (v/v) HNO3
Value / Analyte(s): 10 000 µg/mL ea:
Selenium
Starting Material: Se Metal
Starting Material Lot#: 1962
Starting Material Purity: 99.9991%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 9955 ± 61 µg/mL
Density: 1.035 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1 **9955 ± 50 µg/mL**
ICP Assay NIST SRM 3149 Lot Number: 100901

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$
 w_i = the weighting factors for each method calculated using the inverse square of the variance:
 $w_i = (1/u_{char\ i}^2) / (\sum(1/(u_{char\ i}^2)))$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2
 u_{char} = $[\sum((w_i)^2 (u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method
 u_{bb} = bottle to bottle homogeneity standard uncertainty
 u_{Its} = long term stability standard uncertainty (storage)
 u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char\ a})$$

X_a = mean of Assay Method A with
 $u_{char\ a}$ = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char\ a}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2
 $u_{char\ a}$ = the errors from characterization
 u_{bb} = bottle to bottle homogeneity standard uncertainty
 u_{Its} = long term stability standard uncertainty (storage)
 u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

| | | | | | | | | | | | |
|--------|----------|---|------|----------|--------|----------|--------|----------|--------|----------|----------|
| M Ag < | 0.002242 | M | Eu < | 0.000373 | O Na | 0.013654 | s | Se < | | O Zn | 0.002374 |
| M Al | 0.004450 | M | Fe | 0.008478 | O Nb < | 0.002975 | O Si | 0.006249 | M Zr < | 0.001868 | |
| O As < | 0.022040 | M | Ga < | 0.000373 | M Nd < | 0.000373 | M Sm < | 0.000373 | | | |
| M Au < | 0.000373 | M | Gd < | 0.000373 | O Ni | 0.001843 | M Sn | 0.000847 | | | |
| O B < | 0.007714 | M | Ge < | 0.002616 | M Os < | 0.000373 | M Sr < | 0.001121 | | | |
| M Ba < | 0.001495 | M | Hf < | 0.000373 | O P < | 0.022040 | M Ta < | 0.000373 | | | |
| M Be < | 0.001495 | M | Hg < | 0.002240 | M Pb | 0.006358 | M Tb < | 0.006353 | | | |
| M Bi < | 0.000373 | M | Ho < | 0.000373 | M Pd < | 0.000373 | M Te < | 0.012707 | | | |
| O Ca | 0.006530 | M | In < | 0.000373 | M Pr < | 0.001495 | M Th < | 0.002990 | | | |
| M Cd | 0.001165 | M | Ir < | 0.000373 | M Pt < | 0.000373 | M Ti < | 0.003363 | | | |
| M Ce < | 0.000373 | O | K | 0.001999 | M Rb < | 0.001868 | M Tl | 0.008584 | | | |
| M Co < | 0.000373 | M | La < | 0.001121 | M Re < | 0.000373 | M Tm < | 0.000373 | | | |
| M Cr | 0.002861 | O | Li | 0.000062 | M Rh < | 0.000373 | M U < | 0.000373 | | | |
| M Cs < | 0.001121 | M | Lu < | 0.000373 | M Ru < | 0.001493 | M V < | 0.000747 | | | |
| M Cu < | 0.000747 | O | Mg | 0.001156 | O S | 0.024591 | M W < | 0.002242 | | | |
| M Dy < | 0.000373 | M | Mn < | 0.000373 | M Sb < | 0.002242 | M Y < | 0.000373 | | | |
| M Er < | 0.000373 | O | Mo < | 0.003195 | M Sc < | 0.001121 | M Yb < | 0.000373 | | | |

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 78.96 +4 6 H₂SeO₃

Chemical Compatibility -Soluble in HCl, HNO₃,H₃PO₄, H₂SO₄ and HF aqueous matrices and water. It is stable with most inorganic anions but many cationic metals form the insoluble selenites under pH neutral conditions. When fluorinated and/or under acidic conditions precipitation is typically not a problem at moderate to low concentrations.

Stability - 2-100 ppb levels stable for months alone or mixed with other elements at equivalent levels in 1% HNO₃ / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO₃ / LDPE container.

Se Containing Samples (Preparation and Solution) -Metal (soluble in HNO₃); Oxides (readily soluble in water); Minerals and alloys (acid digestion with HNO₃or HNO₃ / HF); Organic Matrices (acid digestion with hot concentrated H₂SO₄ accompanied by the careful dropwise addition of H₂O₂ until clear).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

| Technique/Line | Estimated D.L. | Order | Interferences (underlined indicates severe) |
|-----------------------|-----------------------|--------------|--|
| ICP-MS 82 amu | 200 ppt | N/A | 12C35Cl2 |
| ICP-OES 196.026 nm | 0.08/0.006 µg/mL | 1 | Fe |
| ICP-OES 203.985 nm | 0.2/0.05 µg/mL | 1 | Sb, Ir, Cr, Ta |
| ICP-OES 206.279 nm | 0.3/0.16 µg/mL | 1 | Cr, Pt |

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

November 17, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **November 17, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Supervisor, Product Documentation



Certificate Approved By:

Michael Booth
Director, Technical



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution
Catalog Number: CGMO10
Lot Number: S2-MO706255
Matrix: H₂O
tr. NH₄OH
Value / Analyte(s): 10 000 µg/mL ea:
Molybdenum
Starting Material: Ammonium Molybdate
Starting Material Lot#: 2361
Starting Material Purity: 99.9893%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10026 ± 47 µg/mL
Density: 1.011 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1 **10032 ± 68 µg/mL**
ICP Assay NIST SRM 3134 Lot Number: 130418

Assay Method #2 **10020 ± 65 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{char i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char i}^2) / (\sum(1/u_{char j}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char} = [\sum(w_i)^2 (u_{char i})^2]^{1/2}$ where $u_{char i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char a})$$

X_a = mean of Assay Method A with

$u_{char a}$ = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char a}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

| | | | | |
|-----------------|-----------------|-----------------|-----------------|-----------------|
| M Ag < 0.000590 | M Eu < 0.000300 | M Na < 0.008739 | M Se < 0.008000 | M Zn < 0.005942 |
| M Al < 0.005592 | M Fe < 0.006500 | M Nb < 0.029000 | i Si < 0.001800 | M Zr < 0.001800 |
| M As < 0.002100 | M Ga < 0.000300 | i Nd < 0.000300 | M Sm < 0.000300 | |
| M Au < 0.000300 | M Gd < 0.000300 | M Ni < 0.008000 | M Sn < 0.008900 | |
| M B < 0.003300 | M Ge < 0.000300 | M Os < 0.000590 | M Sr < 0.001747 | |
| M Ba < 0.016778 | M Hf < 0.001800 | i P < 0.004200 | M Ta < 0.004200 | |
| M Be < 0.000890 | M Hg < 0.003300 | M Pb < 0.000300 | M Tb < 0.000300 | |
| M Bi < 0.000890 | M Ho < 0.000300 | M Pd < 0.001800 | M Te < 0.021000 | |
| O Ca < 0.062920 | M In < 0.032000 | M Pr < 0.013000 | M Th < 0.000300 | |
| O Cd < 0.026000 | M Ir < 0.000300 | M Pt < 0.000300 | O Ti < 0.032000 | |
| M Ce < 0.008300 | M K < 1.293372 | M Rb < 0.045442 | M Tl < 0.012584 | |
| M Co < 0.005942 | M La < 0.000300 | M Re < 0.000300 | M Tm < 0.000300 | |
| M Cr < 0.005243 | O Li < 0.000594 | M Rh < 0.000300 | M U < 0.005300 | |
| M Cs < 0.005243 | M Lu < 0.000300 | M Ru < 0.079000 | M V < 0.000890 | |
| M Cu < 0.022371 | M Mg < 0.005592 | i S < 0.873900 | M W < 0.873900 | |
| M Dy < 0.000300 | M Mn < 0.005900 | M Sb < 0.015031 | M Y < 0.000300 | |
| M Er < 0.000300 | s Mo < 0.000300 | M Sc < 0.001200 | M Yb < 0.000300 | |

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.
- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.
- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 95.94 +6 6,7,8,9

[MoO4]-2(chemical form as received)

Chemical Compatibility -Mo is received in a NH4OH matrix giving the operator the option of using HCl or HF to stabilize acidic solutions. The [MoO4]-2 is soluble in concentrated HCl [MoOCl5]-2, dilute HF / HNO3 [MoOF5]-2 and basic media [MoO4]-2. Stable at ppm levels with some metals provided it is fluorinated. Do not mix with Alkaline or Rare Earths when HF is present. Stable with most inorganic anions provided it is in the [MoO4]-2 chemical form.

Stability - 2-100 ppb levels stable (alone or mixed with all other metals that are at comparable levels) as the [MoOF5]-2 for months in 1% HNO3 / LDPE container. 1-10,000 ppm single element solutions as the [MoO4]-2 chemically stable for years in 1% NH4OH in a LDPE container.

Mo Containing Samples (Preparation and Solution) -Metal (Soluble in HF / HNO3 or hot dilute HCl); Oxide (soluble in HF or NH4OH) ; Organic Matrices (Dry ash at 450EC in Pt0 and dissolve oxide with HF or HCl).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

| Technique/Line | Estimated D.L. | Order | Interferences (underlined indicates severe) |
|--------------------|----------------------|-------|---|
| ICP-MS 95 amu | 3 ppt | n/a | 40Ar39K16O,79Br1 60,190Os2+,190Pt 2+ |
| ICP-OES 202.030 nm | 0.008 / 0.0002 µg/mL | 1 | Os, Hf |
| ICP-OES 203.844 nm | 0.012 / 0.002 µg/mL | 1 | |
| ICP-OES 204.598 nm | 0.012 / 0.001 µg/mL | 1 | Ir, Ta |

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

July 04, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **July 04, 2025**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution
Catalog Number: CGTL10
Lot Number: T2-TL714687
Matrix: 5% (v/v) HNO₃
Value / Analyte(s): 10 000 µg/mL ea:
Thallium
Starting Material: TINO₃
Starting Material Lot#: 2118
Starting Material Purity: 99.9998%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10030 ± 42 µg/mL
Density: 1.036 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1 **10040 ± 43 µg/mL**
ICP Assay NIST SRM 3158 Lot Number: 151215

Assay Method #2 **10010 ± 65 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{char i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char i}^2) / (\sum(1/u_{char j}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char} = [\sum(w_i)^2 (u_{char i}^2)]^{1/2}$ where $u_{char i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char a})$$

X_a = mean of Assay Method A with

$u_{char a}$ = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char a}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES ($\mu\text{g/mL}$)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 μm .

| | | | | |
|-----------------|-----------------|-----------------|-----------------|-----------------|
| M Ag < 0.000200 | M Eu < 0.000200 | O Na < 0.002489 | M Se < 0.011019 | O Zn < 0.002298 |
| O Al < 0.004184 | O Fe < 0.002824 | M Nb < 0.000200 | O Si < 0.003760 | M Zr < 0.000200 |
| M As < 0.002003 | M Ga < 0.000200 | M Nd < 0.000200 | M Sm < 0.000200 | |
| O Au < 0.002824 | M Gd < 0.000200 | M Ni < 0.001724 | M Sn < 0.000601 | |
| O B < 0.004184 | M Ge < 0.000801 | M Os < 0.000198 | O Sr < 0.000313 | |
| M Ba < 0.000400 | M Hf < 0.000200 | O P < 0.010460 | M Ta < 0.000200 | |
| O Be < 0.000104 | M Hg < 0.000794 | M Pb < 0.000811 | M Tb < 0.000200 | |
| M Bi < 0.005209 | M Ho < 0.000200 | M Pd < 0.000400 | M Te < 0.005008 | |
| O Ca < 0.002436 | M In < 0.000200 | M Pr < 0.000200 | M Th < 0.000200 | |
| M Cd < 0.001318 | M Ir < 0.000198 | M Pt < 0.000801 | O Ti < 0.001255 | |
| M Ce < 0.000200 | O K < 0.006175 | M Rb < 0.000200 | s Tl < | |
| M Co < 0.000601 | M La < 0.000200 | M Re < 0.000200 | M Tm < 0.000200 | |
| M Cr < 0.000801 | O Li < 0.000177 | M Rh < 0.000200 | M U < 0.000200 | |
| M Cs < 0.003606 | M Lu < 0.000200 | M Ru < 0.000397 | M V < 0.002203 | |
| M Cu < 0.001001 | O Mg < 0.000529 | O S < 0.015690 | M W < 0.000601 | |
| M Dy < 0.000200 | M Mn < 0.000801 | M Sb < 0.000400 | M Y < 0.000200 | |
| M Er < 0.000200 | M Mo < 0.001202 | O Sc < 0.000711 | M Yb < 0.000200 | |

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.
- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.
- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 204.38 +1 6 Ti(H₂O)₆¹⁺
Chemical Compatibility - Soluble in HCl, HNO₃, and H₂SO₄. Stable with most metals and inorganic anions. The sulfite, thiocyanate and oxalate are moderately soluble; the phosphate and arsenite are slightly soluble and the sulfide is insoluble.

Stability - 2-100 ppb levels stable for months in 1% HNO₃ / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO₃ / LDPE container.

Ti Containing Samples)Preparation and Solution) -Metal (Best dissolved in HNO₃ which forms chiefly the Ti¹⁺ ion.); Oxide (The thalious oxide is readily soluble in water. The thallic oxide requires high levels of acid); Ores (Carbonate fusion in Pt₀ followed by HCl dissolution); Organic Matrices (Sulfuric/peroxide digestion or dry ash and dissolution in HCl).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

| Technique/Line | Estimated D.L. | Order | Interferences (underlined indicates severe) |
|-----------------------|-----------------------|--------------|--|
| ICP-MS 205 amu | 2 ppt | N/A | 189Os16O |
| ICP-OES 190.864 nm | 0.04 / 0.004 µg/mL | 1 | V, Ti |
| ICP-OES 276.787 nm | 0.1 / 0.01 µg/mL | 1 | Ta, V, Fe, Cr |
| ICP-OES 351.924 nm | 0.2 / 0.02 µg/mL | 1 | Th, Ce, Zr |

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

February 08, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **February 08, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

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F: 540-585-3012
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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution
Catalog Number: CGCD10
Lot Number: S2-CD710508
Matrix: 3% (v/v) HNO₃
Value / Analyte(s): 10 000 µg/mL ea:
Cadmium
Starting Material: Cd Metal
Starting Material Lot#: 1953
Starting Material Purity: 99.9995%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10008 ± 30 µg/mL
Density: 1.029 g/mL (measured at 20 ± 4 °C)

Assay Information:

| | |
|------------------------|---|
| Assay Method #1 | 10010 ± 32 µg/mL EDTA NIST SRM 928 Lot Number: 928 |
| Assay Method #2 | 10011 ± 30 µg/mL ICP Assay NIST SRM 3108 Lot Number: 130116 |
| Assay Method #3 | 10003 ± 30 µg/mL Calculated NIST SRM Lot Number: See Sec. 4.2 |

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char\ i}^2) / (\sum(1/u_{char\ j}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char} = [\sum(w_i)^2 (u_{char\ i})^2]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char\ a})$$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char\ a}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES ($\mu\text{g/mL}$)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 μm .

| | | | | |
|-----------------|-----------------|-----------------|-----------------|-----------------|
| O Ag < 0.003200 | O Eu < 0.002500 | O Na < 0.005499 | M Se < 0.005700 | O Zn < 0.001100 |
| O Al < 0.008903 | O Fe < 0.000602 | M Nb < 0.000400 | O Si < 0.016758 | O Zr < 0.002600 |
| M As < 0.003600 | M Ga < 0.001200 | M Nd < 0.000800 | M Sm < 0.000400 | |
| M Au < 0.000810 | M Gd < 0.000400 | M Ni < 0.003600 | M Sn < 0.003200 | |
| O B < 0.004189 | O Ge < 0.012000 | M Os < 0.000810 | O Sr < 0.000330 | |
| M Ba < 0.002400 | M Hf < 0.000400 | O P < 0.022000 | M Ta < 0.000800 | |
| M Be < 0.000400 | M Hg < 0.001700 | M Pb < 0.002400 | M Tb < 0.000400 | |
| M Bi < 0.000400 | M Ho < 0.000400 | M Pd < 0.001200 | M Te < 0.008000 | |
| O Ca < 0.011259 | O In < 0.013000 | M Pr < 0.000400 | M Th < 0.000400 | |
| s Cd < 0.000400 | M Ir < 0.000410 | M Pt < 0.000400 | O Ti < 0.000602 | |
| M Ce < 0.000400 | O K < 0.005237 | M Rb < 0.004400 | M Tl < 0.000523 | |
| M Co < 0.000400 | M La < 0.000400 | M Re < 0.000400 | M Tm < 0.000400 | |
| O Cr < 0.005100 | O Li < 0.000054 | M Rh < 0.000400 | M U < 0.000400 | |
| M Cs < 0.002400 | M Lu < 0.000400 | M Ru < 0.002500 | M V < 0.002000 | |
| O Cu < 0.004800 | O Mg < 0.000288 | O S < 0.022000 | M W < 0.000400 | |
| M Dy < 0.000400 | O Mn < 0.000860 | O Sb < 0.018000 | M Y < 0.000400 | |
| M Er < 0.000400 | M Mo < 0.001600 | O Sc < 0.000430 | M Yb < 0.000400 | |

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.
- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.
- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 112.41 +2 4 Cd₂(OH)₃+ and Cd(OH)₂(aq)

Chemical Compatibility -Stable in HCl, HNO₃, H₂SO₄, and HF. Avoid basic media forming insoluble carbonate and hydroxide.

Stability - 2-100 ppb levels stable for months in 1% HNO₃ / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5 % HNO₃ / LDPE container.

Cd Containing Samples (Preparation and Solution) -Metal (soluble in HNO₃); Oxides (soluble in HCl or HNO₃); Ores (dissolve in HCl /HNO₃ then take to fumes with H₂SO₄. The silica and lead sulfate are filtered off after the addition of water); Organic based (dry ash at 450°C and dissolve ash in HCl), (sulfuric / peroxide acid digestion).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

| Technique/Line | Estimated D.L. | Order | Interferences (underlined indicates severe) |
|--------------------|----------------------|-------|---|
| ICP-MS 111 amu | 11 ppt | n/a | 95Mo16O |
| ICP-OES 214.438 nm | 0.003 / 0.0003 µg/mL | 1 | Pt, Ir |
| ICP-OES 226.502 nm | 0.003 / 0.0003 µg/mL | 1 | Ir |
| ICP-OES 228.802 nm | 0.003 / 0.0003 µg/mL | 1 | Co, Ir, As, Pt |

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

November 01, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **November 01, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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Christiansburg, VA 24073 USA
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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution
Catalog Number: CGMN10
Lot Number: S2-MN704240
Matrix: 3% (v/v) HNO₃
Value / Analyte(s): 10 000 µg/mL ea:
Manganese
Starting Material: Mn Metal
Starting Material Lot#: 2275
Starting Material Purity: 99.9909%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10011 ± 30 µg/mL
Density: 1.035 g/mL (measured at 20 ± 4 °C)

Assay Information:

| | |
|------------------------|---|
| Assay Method #1 | 9989 ± 69 µg/mL ICP Assay NIST SRM 3132 Lot Number: 050429 |
| Assay Method #2 | 10011 ± 25 µg/mL EDTA NIST SRM 928 Lot Number: 928 |
| Assay Method #3 | 10024 ± 47 µg/mL Calculated NIST SRM Lot Number: See Sec. 4.2 |

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{char i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char i}^2) / (\sum(1/u_{char j}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char} = [\sum(w_i)^2 (u_{char i}^2)]^{1/2}$ where $u_{char i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char a})$$

X_a = mean of Assay Method A with

$u_{char a}$ = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char a}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES ($\mu\text{g/mL}$)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 μm .

| | | | | |
|-----------------|-----------------|-----------------|-----------------|-----------------|
| M Ag < 0.001500 | M Eu < 0.000730 | O Na 0.176097 | M Se < 0.006600 | M Zn 0.009925 |
| O Al 0.004322 | M Fe < 0.650000 | M Nb < 0.000730 | O Si 0.097654 | M Zr < 0.000730 |
| M As < 0.008000 | M Ga 0.004322 | M Nd < 0.001500 | M Sm < 0.000730 | |
| M Au < 0.000730 | M Gd < 0.000730 | M Ni 0.024013 | M Sn < 0.002200 | |
| M B 0.068838 | M Ge < 0.004400 | M Os < 0.000730 | O Sr 0.000928 | |
| M Ba < 0.001500 | M Hf < 0.000730 | i P < | M Ta < 0.000730 | |
| M Be < 0.000730 | M Hg < 0.002200 | M Pb 0.007364 | M Tb < 0.000730 | |
| M Bi < 0.003000 | M Ho < 0.000730 | M Pd < 0.000730 | M Te < 0.019000 | |
| O Ca 0.062434 | M In < 0.003000 | M Pr < 0.000730 | M Th < 0.000730 | |
| M Cd < 0.001500 | M Ir < 0.000730 | M Pt < 0.000730 | O Ti < 0.006500 | |
| M Ce < 0.007300 | O K 0.006403 | M Rb < 0.006600 | M Tl < 0.000730 | |
| O Co 0.014728 | M La < 0.003000 | M Re < 0.000730 | M Tm < 0.000730 | |
| O Cr 0.272151 | O Li 0.000416 | M Rh < 0.003000 | M U < 0.001500 | |
| M Cs < 0.000730 | M Lu < 0.000730 | M Ru < 0.004400 | M V < 0.000730 | |
| O Cu 0.007684 | O Mg 0.320177 | i S < | M W < 0.004400 | |
| M Dy < 0.001500 | s Mn < | M Sb < 0.021000 | O Y 0.001360 | |
| M Er < 0.001500 | M Mo 0.010245 | O Sc < 0.004100 | M Yb < 0.000730 | |

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.
- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.
- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 54.94 +2 6 Mn(H₂O)₆2+

Chemical Compatibility -Stable in HCl, HNO₃, H₂SO₄, HF, H₃PO₄. Avoid basic media. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO₃ / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5 % HNO₃/LDPE container.

Mn Containing Samples (Preparation and Solution) -Metal (Soluble in dilute acids); Oxides (Soluble in dilute acids); Ores (Dissolve with HCl. If silica is present add HF and then fume off silica by adding H₂SO₄ and heat to SO₃ fumes - dense white fumes).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

| Technique/Line | Estimated D.L. | Order | Interferences (underlined indicates severe) |
|--------------------|------------------------|-------|--|
| ICP-MS 55 amu | 10 ppt | n/a | 40Ar14N1H,39K16 O,37Cl18O,40Ar15 N,38Ar17O,36Ar18O 1H ,38Ar16O1H,37Cl17 O1H,23Na32S |
| ICP-OES 257.610 nm | 0.0014 / 0.00002 µg/mL | 1 | Ce, W, Re |
| ICP-OES 259.373 nm | 0.0016 / 0.00002 µg/mL | 1 | U, Ta, Mo, Fe, Nb |
| ICP-OES 260.569 nm | 0.0021 / 0.00002 µg/mL | 1 | Co |

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

April 17, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **April 17, 2025**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution
 Catalog Number: CGSB10
 Lot Number: R2-SB688559
 Matrix: 3% (v/v) HNO3
 3% (w/v) tartaric acid
 Value / Analyte(s): 10 000 µg/mL ea:
 Antimony
 Starting Material: Antimony Metal
 Starting Material Lot#: 1857
 Starting Material Purity: 99.9894%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10003 ± 47 µg/mL
Density: 1.061 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1 10003 ± 41 µg/mL
 ICP Assay NIST SRM 3102a Lot Number: 140911

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i) (X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{char i}$
 w_i = the weighting factors for each method calculated using the inverse square of the variance:
 $w_i = (1/u_{char i}^2) / (\sum(1/u_{char i}^2))$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2
 $u_{char} = [\sum((w_i)^2 (u_{char i})^2)]^{1/2}$ where $u_{char i}$ are the errors from each characterization method
 u_{bb} = bottle to bottle homogeneity standard uncertainty
 u_{lts} = long term stability standard uncertainty (storage)
 u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char a})$$

X_a = mean of Assay Method A with
 $u_{char a}$ = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char a}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2
 $u_{char a}$ = the errors from characterization
 u_{bb} = bottle to bottle homogeneity standard uncertainty
 u_{lts} = long term stability standard uncertainty (storage)
 u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

| | | | | | | | | | |
|--------|----------|--------|----------|--------|----------|--------|----------|--------|----------|
| M Ag < | 0.000200 | M Eu < | 0.000300 | O Na | 0.140000 | M Se < | 0.007300 | O Zn | 0.005000 |
| M Al | 0.003200 | O Fe | 0.060000 | M Nb < | 0.000100 | O Si | 0.150000 | O Zr < | 0.006300 |
| M As < | 0.004400 | M Ga < | 0.000400 | M Nd < | 0.000100 | M Sm < | 0.000100 | | |
| M Au < | 0.000210 | M Gd < | 0.000100 | O Ni | 0.004800 | M Sn < | 0.001800 | | |
| M B < | 0.011000 | M Ge < | 0.000600 | M Os < | 0.000110 | O Sr | 0.000750 | | |
| O Ba < | 0.004900 | M Hf < | 0.000100 | O P | 0.540000 | M Ta | 0.003300 | | |
| M Be < | 0.000400 | M Hg < | 0.000110 | M Pb < | 0.000400 | M Tb < | 0.000100 | | |
| M Bi < | 0.000200 | M Ho < | 0.000100 | M Pd < | 0.000210 | M Te < | 0.000600 | | |
| O Ca | 0.110000 | M In < | 0.000100 | M Pr < | 0.001600 | M Th < | 0.000100 | | |
| M Cd < | 0.000200 | M Ir < | 0.000110 | M Pt < | 0.000600 | M Ti < | 0.002800 | | |
| M Ce | 0.006500 | O K | 0.020000 | M Rb < | 0.001000 | M Tl < | 0.000100 | | |
| M Co < | 0.000200 | O La < | 0.016000 | M Re < | 0.000100 | M Tm < | 0.000100 | | |
| M Cr | 0.006900 | O Li < | 0.000430 | M Rh < | 0.000300 | M U < | 0.000100 | | |
| M Cs < | 0.000200 | M Lu < | 0.000100 | M Ru < | 0.000310 | M V < | 0.000800 | | |
| M Cu < | 0.000600 | O Mg | 0.021000 | n S < | | M W < | 0.000200 | | |
| M Dy < | 0.000100 | O Mn | 0.001900 | s Sb < | | M Y < | 0.000100 | | |
| M Er < | 0.000100 | M Mo < | 0.000500 | O Sc < | 0.002300 | M Yb < | 0.000100 | | |

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 121.75 +3 6 Sb(O)C4H4O6-1

Chemical Compatibility -Stable in conc. HCl, dilute or conc. HF. Stable in dilute HNO3 as the fluoride or tartrate complex. Avoid basic media. Stable with most metals and inorganic anions in acidic media as the tartrate provided the acidity is not too high or the acid is oxidizing causing loss of the stabilizing tartrate ion. The fluoride complex of antimony is stable in strong acid but you should only mix with other metals that are fluorinated.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-2% HNO3 / LDPE container.

Sb Containing Samples (Preparation and Solution) -Metal and alloys (Soluble in H2O / HF / HNO3 mixture); Oxides (Soluble in HCl and tartaric acid or H2O / HF / HNO3 mixtures); Ores (fusion with Na2CO3 in Pt0 followed by dissolving the fuseate in a H2O / HF / HNO3 mixture); Organic based (sulfuric acid / hydrogen peroxide digestion)

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

| Technique/Line | Estimated D.L. | Order | Interferences (underlined indicates severe) |
|-----------------------|-----------------------|--------------|--|
| ICP-MS 121 amu | 5 ppt | N/A | 105Pd16O, 89Y16O2 |
| ICP-OES 206.833 nm | 0.03/0.003 µg/mL | 1 | Ta, Cr, Ge, Hf |
| ICP-OES 217.581 nm | 0.05/0.005 µg/mL | 1 | Nb, W, Re, Fe |
| ICP-OES 231.147 nm | 0.06/0.006 µg/mL | 1 | Ni, Co, Pt |

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

April 30, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **April 30, 2024**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Manager, Quality Control



Certifying Officer:

Paul Gaines
CEO, Senior Technical Director



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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution
Catalog Number: CGAS10
Lot Number: T2-AS718260
Matrix: 2% (v/v) HNO₃
Value / Analyte(s): 10 000 µg/mL ea:
Arsenic
Starting Material: As Metal
Starting Material Lot#: 2208
Starting Material Purity: 99.9971%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10060 ± 40 µg/mL
Density: 1.037 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1 **10062 ± 46 µg/mL**
ICP Assay NIST SRM 3103a Lot Number: 100818

Assay Method #2 **10055 ± 76 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{char i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char i}^2) / (\sum(1/u_{char j}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char} = [\sum(w_i)^2 (u_{char i}^2)]^{1/2}$ where $u_{char i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char a})$$

X_a = mean of Assay Method A with

$u_{char a}$ = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char a}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES ($\mu\text{g/mL}$)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 μm .

| | | | | |
|-----------------|-----------------|-----------------|-----------------|-----------------|
| M Ag < 0.003200 | M Eu < 0.000530 | O Na < 0.032544 | M Se < 0.006300 | O Zn < 0.001952 |
| M Al < 0.007593 | O Fe < 0.001475 | O Nb < 0.012000 | O Si < 0.238658 | O Zr < 0.004100 |
| s As < 0.000530 | M Ga < 0.000530 | M Nd < 0.000530 | M Sm < 0.000530 | |
| M Au < 0.003100 | M Gd < 0.000530 | M Ni < 0.002100 | M Sn < 0.000530 | |
| M B < 0.026035 | M Ge < 0.001600 | M Os < 0.000520 | M Sr < 0.000530 | |
| M Ba < 0.000530 | M Hf < 0.000530 | O P < 0.043000 | M Ta < 0.000530 | |
| O Be < 0.000360 | M Hg < 0.001600 | M Pb < 0.002100 | M Tb < 0.000530 | |
| M Bi < 0.000530 | M Ho < 0.000530 | M Pd < 0.001100 | M Te < 0.004700 | |
| O Ca < 0.004339 | M In < 0.023000 | M Pr < 0.005300 | M Th < 0.000530 | |
| M Cd < 0.001100 | M Ir < 0.000520 | M Pt < 0.000530 | O Ti < 0.002300 | |
| M Ce < 0.000530 | O K < 0.002061 | M Rb < 0.000530 | M Tl < 0.000530 | |
| M Co < 0.000530 | M La < 0.001100 | M Re < 0.000530 | M Tm < 0.000530 | |
| O Cr < 0.001800 | O Li < 0.000120 | M Rh < 0.000530 | M U < 0.000530 | |
| M Cs < 0.005300 | M Lu < 0.000530 | M Ru < 0.000520 | M V < 0.002700 | |
| M Cu < 0.001600 | O Mg < 0.000154 | O S < 0.028205 | M W < 0.012000 | |
| M Dy < 0.000530 | O Mn < 0.000154 | M Sb < 0.000530 | M Y < 0.000530 | |
| M Er < 0.000530 | M Mo < 0.000530 | O Sc < 0.001700 | M Yb < 0.000530 | |

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.
- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.
- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 74.92 ; mix of +3 and +5 ; 6 ; H3AsO4 and HAsO2

Chemical Compatibility - Arsenic has no cationic chemistry. It is soluble in HCl, HNO3, H3PO4, H2SO4 and HF aqueous matrices water and NH4OH . It is stable with most inorganic anions (forms arsenate when boiled with chromate) but many cationic metals form the insoluble arsenates under pH neutral conditions. When fluorinated and / or under acidic conditions arsenate formation is typically not a problem at moderate to low concentrations.

Stability - 2-100 ppb levels stable for months alone or mixed with other elements at equivalent levels in 1% HNO3 / LDPE container.

As Containing Samples (Preparation and Solution) - Metal (soluble in 1:1 H2O / HNO3); Oxides (the oxide exists in crystalline and amorphous forms where the amorphous form is more water soluble. The oxides typically dissolve in dilute acidic solutions when boiled); Minerals (one gram of powdered sample is fused in a Ni crucible with 10 grams of a 1:1 mix of K2CO3 and KNO3 and the melt extracted with hot water); Organic Matrices (0.2 to 0.5 grams of sample are fused with 15 grams of a 1:1 Na2CO3 / Na2O2 mix in a Ni crucible. The fuseate is extracted with water and acidified with HNO3).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

| Technique/Line | Estimated D.L. | Order | Interferences (underlined indicates severe) |
|-----------------------|-----------------------|--------------|---|
| ICP-MS 75 amu | 20 ppt | N/A | 40Ar35Cl, 59Co16O, 36Ar38Ar1H,8Ar37C I,Ar39K, 150Nd2+,150Sm2+ |
| ICP-OES 189.042 nm | 0.05/0.005 µg/mL | 1 | Cr |
| ICP-OES 193.696 nm | 0.1/0.01 µg/mL | 1 | V, Ge |
| ICP-OES 228.812 nm | 0.1/0.01 µg/mL | 1 | Cd, Pt, Ir, Co |

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

May 10, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **May 10, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Supervisor, Product Documentation



Certificate Approved By:

Michael Booth
Director, Technical



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution
 Catalog Number: CGBA10
 Lot Number: R2-BA692576
 Matrix: 2% (v/v) HNO3
 Value / Analyte(s): 10 000 µg/mL ea:
 Barium
 Starting Material: Barium Nitrate
 Starting Material Lot#: 1969
 Starting Material Purity: 99.9982%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10022 ± 30 µg/mL
Density: 1.025 g/mL (measured at 20 ± 4 °C)

Assay Information:

| | |
|------------------------|--|
| Assay Method #1 | 10018 ± 50 µg/mL ICP Assay NIST SRM 3104a Lot Number: 140909 |
| Assay Method #2 | 10023 ± 31 µg/mL Gravimetric NIST SRM Lot Number: See Sec. 4.2 |
| Assay Method #3 | 10023 ± 30 µg/mL Calculated NIST SRM Lot Number: See Sec. 4.2 |

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{char i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char i}^2) / (\sum(1/u_{char j}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char} = [\sum((w_i)^2 (u_{char i})^2)]^{1/2}$ where $u_{char i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char a})$$

X_a = mean of Assay Method A with

$u_{char a}$ = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char a}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an UPLA-Filtered Clean Room. An UPLA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

| | | | | |
|-----------------|-----------------|-----------------|-----------------|-----------------|
| M Ag < 0.000410 | O Eu < 0.005200 | O Na 0.004610 | M Se < 0.003700 | O Zn 0.000658 |
| M Al < 0.003100 | O Fe 0.015707 | M Nb < 0.000210 | O Si 0.005573 | M Zr < 0.001300 |
| M As < 0.001300 | M Ga < 0.000210 | M Nd < 0.000210 | O Sm < 0.021000 | |
| M Au < 0.001300 | M Gd < 0.000210 | M Ni < 0.000810 | M Sn < 0.000410 | |
| O B < 0.005200 | M Ge < 0.002500 | M Os < 0.000410 | O Sr 0.003850 | |
| s Ba < | M Hf < 0.000810 | O P < 0.026000 | M Ta < 0.000410 | |
| O Be < 0.000320 | M Hg < 0.000210 | M Pb < 0.002300 | M Tb < 0.000210 | |
| M Bi < 0.000210 | M Ho < 0.000210 | M Pd < 0.000210 | M Te < 0.001900 | |
| O Ca 0.007093 | M In < 0.000210 | M Pr < 0.000210 | M Th < 0.000210 | |
| M Cd < 0.000210 | M Ir < 0.000210 | M Pt < 0.000210 | M Ti < 0.002100 | |
| M Ce < 0.001300 | O K 0.035467 | M Rb < 0.002100 | M Tl < 0.000210 | |
| M Co < 0.000410 | O La < 0.005200 | M Re < 0.000210 | M Tm < 0.000410 | |
| M Cr < 0.001700 | O Li < 0.000630 | M Rh < 0.000210 | M U < 0.000210 | |
| M Cs < 0.003300 | M Lu < 0.001700 | M Ru < 0.000210 | O V < 0.005200 | |
| M Cu < 0.001300 | O Mg 0.000861 | O S 0.268539 | M W < 0.000410 | |
| M Dy < 0.000210 | M Mn < 0.000410 | M Sb < 0.001300 | O Y < 0.005200 | |
| M Er < 0.001300 | M Mo < 0.000410 | M Sc < 0.000410 | M Yb < 0.001300 | |

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 137.33 +2 6 Ba(H₂O)₆+2

Chemical Compatibility - Soluble in HCl, and HNO₃. Avoid H₂SO₄, HF and neutral to basic media. Stable with most metals and inorganic anions forming insoluble silicate, carbonate, hydroxide, oxide, fluoride, sulfate, oxalate, chromate, arsenate, iodate, molybdate, sulfite and tungstate in neutral aqueous media.

Stability - 2-100 ppb levels stable for months in 1% HNO₃ / LDPE container. 1 -10,000 ppm solutions chemically stable for years in 1-3.5% HNO₃ / LDPE container.

Ba Containing Samples (Preparation and Solution) -Metal(is best dissolved in diluted HNO₃); Ores(Carbonate fusion in Pt0 followed by HCl dissolution. If sulfate is present dissolve the fuseate using HCl / tartaric acid to prevent BaSO₄ precipitate); Organic Matrices (dry ash and dissolve in dilute HCl.)

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

| Technique/Line | Estimated D.L. | Order | Interferences (underlined indicates severe) |
|-----------------------|-----------------------|--------------|--|
| ICP-MS 138 amu | 1 ppt | N/A | 122Sn16O, 122Te16O |
| ICP-OES 230.424 nm | 0.004/0.0005 µg/mL | 1 | Mo, Ir, Co |
| ICP-OES 233.527 nm | 0.004/0.0003 µg/mL | 1 | |
| ICP-OES 455.403 nm | 0.002/0.0001 µg/mL | 1 | Zr, U |

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

May 11, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **May 11, 2024**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Manager, Quality Control



Certifying Officer:

Paul Gaines
CEO, Senior Technical Director



1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution
Catalog Number: CGBE10
Lot Number: R2-BE692992
Matrix: 6% (v/v) HNO₃
Value / Analyte(s): 10 000 µg/mL ea:
Beryllium
Starting Material: Beryllium Acetate
Starting Material Lot#: 2281
Starting Material Purity: 99.9998%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10032 ± 41 µg/mL
Density: 1.128 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1 **10042 ± 67 µg/mL**
ICP Assay NIST SRM 3105a Lot Number: 090514

Assay Method #2 **10025 ± 51 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{char i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char i}^2) / (\sum(1/u_{char j}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char} = [\sum(w_i)^2 (u_{char i}^2)]^{1/2}$ where $u_{char i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char a})$$

X_a = mean of Assay Method A with

$u_{char a}$ = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char a}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES ($\mu\text{g/mL}$)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 μm .

| | | | | |
|-----------------|-----------------|-----------------|-----------------|-----------------|
| M Ag < 0.001100 | M Eu < 0.000270 | O Na < 0.040962 | M Se < 0.005000 | M Zn < 0.013054 |
| O Al < 0.016205 | O Fe < 0.015754 | M Nb < 0.000270 | O Si < 0.024307 | O Zr < 0.001900 |
| M As < 0.002900 | M Ga < 0.000270 | M Nd < 0.000270 | M Sm < 0.000270 | |
| M Au < 0.000520 | M Gd < 0.000270 | M Ni < 0.003700 | M Sn < 0.000790 | |
| M B < 0.091000 | M Ge < 0.000270 | M Os < 0.000260 | M Sr < 0.000630 | |
| M Ba < 0.002700 | M Hf < 0.000270 | O P < 0.066000 | M Ta < 0.000270 | |
| s Be < 0.000530 | M Hg < 0.000520 | M Pb < 0.000270 | M Tb < 0.000270 | |
| M Bi < 0.072022 | M Ho < 0.000270 | M Pd < 0.000520 | M Te < 0.003700 | |
| O Ca < 0.000790 | M In < 0.000790 | M Pr < 0.000270 | M Th < 0.000270 | |
| M Cd < 0.000270 | M Ir < 0.000260 | M Pt < 0.000270 | O Ti < 0.000400 | |
| M Ce < 0.000270 | O K < 0.045014 | M Rb < 0.000270 | M Tl < 0.000790 | |
| O Co < 0.003200 | M La < 0.000270 | M Re < 0.000270 | M Tm < 0.000270 | |
| O Cr < 0.001800 | O Li < 0.000660 | M Rh < 0.001100 | M U < 0.000270 | |
| M Cs < 0.001440 | M Lu < 0.000270 | M Ru < 0.000260 | M V < 0.000790 | |
| M Cu < 0.002100 | O Mg < 0.016205 | i S < 0.000270 | M W < 0.000530 | |
| M Dy < 0.000270 | M Mn < 0.001215 | M Sb < 0.000270 | M Y < 0.000270 | |
| M Er < 0.000270 | M Mo < 0.000530 | O Sc < 0.000930 | M Yb < 0.000270 | |

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.
- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.
- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 9.01 +2 4 Be(H₂O)₄+2

Chemical Compatibility -Soluble in HCl, HNO₃, H₂SO₄ and HF aqueous matrices. Stable with all metals and inorganic anions.

Stability - 2-100 ppb levels stable for months in 1 % HNO₃ / LDPE container. 1-10,000 ppm solutions chemically stable for years in 5-10 % HNO₃ / LDPE container.

Be Containing Samples (Preparation and Solution) - Meta I(is best dissolved in diluted H₂SO₄); BeO (boiling nitric, hydrochloric, or sulfuric acids or KHSO₄ fusion); Ores (H₂SO₄/HF digestion or carbonate fusion in Pt0); Organic Matrices (sulfuric/peroxide digestion or nitric/sulfuric/perchloric acid decomposition, or dry ash and dissolution according to the BeO procedure above).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

| Technique/Line | Estimated D.L. | Order | Interferences (underlined indicates severe) |
|-----------------------|-----------------------|--------------|--|
| ICP-MS 9 amu | 4 ppt | N/A | |
| ICP-OES 234.861 nm | 0.0003/0.00016 µg/mL | 1 | Fe, Ta, Mo |
| ICP-OES 313.042 nm | 0.0003/0.00009 µg/mL | 1 | V, Ce, U |
| ICP-OES 313.107 nm | 0.0007/0.0005 µg/mL | 1 | Ce, Th, Tm |

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION, PERIOD OF VALIDITY AND REVISION HISTORY

11.1 Certification Issue Date

May 13, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **May 13, 2024**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

11.4 Revision Status

- Revision 1 - Revised on Thursday, Jan 14, 2021 by utruong. Revision was made for the following reason: Modified Section 7 Chemical Form in Solution.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution
 Catalog Number: CGCO10
 Lot Number: R2-CO695285
 Matrix: 3% (v/v) HNO3
 Value / Analyte(s): 10 000 µg/mL ea:
 Cobalt
 Starting Material: Co Metal
 Starting Material Lot#: 2326
 Starting Material Purity: 99.9934%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10012 ± 31 µg/mL
Density: 1.056 g/mL (measured at 20 ± 4 °C)

Assay Information:

- Assay Method #1** **10031 ± 67 µg/mL**
 ICP Assay NIST SRM 3113 Lot Number: 190630

- Assay Method #2** **10019 ± 32 µg/mL**
 EDTA NIST SRM 928 Lot Number: 928

- Assay Method #3** **10000 ± 35 µg/mL**
 Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/CRM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{char i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char i}^2) / (\sum(1/u_{char i}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char} = [\sum(w_i)^2 (u_{char i}^2)]^{1/2}$ where $u_{char i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char a})$$

X_a = mean of Assay Method A with

$u_{char a}$ = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char a}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an UPLA-Filtered Clean Room. An UPLA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

| | | | | | | | | | | | | |
|------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| M Ag | 0.014660 | M Eu | < | 0.000590 | O Na | 0.007534 | M Se | < | 0.019000 | M Zn | 0.003461 | |
| M Al | < | 0.024000 | M Fe | 0.050905 | M Nb | < | 0.000590 | O Si | 0.075340 | M Zr | < | 0.001200 |
| i As | < | | M Ga | < | 0.000590 | M Nd | < | 0.000590 | M Sm | < | 0.000590 | |
| M Au | < | 0.004100 | M Gd | < | 0.000590 | O Ni | 0.427608 | M Sn | < | 0.001200 | | |
| M B | < | 0.031000 | M Ge | < | 0.003000 | M Os | < | 0.000590 | O Sr | < | 0.000260 | |
| M Ba | < | 0.000590 | M Hf | < | 0.000590 | n P | < | | M Ta | < | 0.001200 | |
| O Be | < | 0.001300 | M Hg | < | 0.001800 | M Pb | 0.003257 | M Tb | < | 0.000590 | | |
| M Bi | < | 0.003000 | M Ho | < | 0.000590 | M Pd | < | 0.000590 | M Te | < | 0.005300 | |
| O Ca | 0.010588 | M In | < | 0.001200 | M Pr | < | 0.000590 | M Th | < | 0.000590 | | |
| M Cd | < | 0.004700 | M Ir | < | 0.001200 | M Pt | < | 0.002400 | M Ti | < | 0.014000 | |
| M Ce | < | 0.000590 | O K | 0.008144 | M Rb | < | 0.000590 | M Tl | 0.002647 | | | |
| s Co | < | | M La | < | 0.000590 | M Re | < | 0.000590 | M Tm | < | 0.000590 | |
| M Cr | < | 0.021000 | O Li | < | 0.000130 | M Rh | < | 0.000590 | M U | < | 0.000590 | |
| M Cs | < | 0.002400 | M Lu | < | 0.000590 | M Ru | < | 0.007100 | O V | < | 0.000880 | |
| M Cu | 0.189369 | O Mg | 0.001893 | n S | < | | | M W | < | 0.000590 | | |
| M Dy | < | 0.000590 | M Mn | < | 0.001800 | M Sb | < | 0.003600 | M Y | < | 0.000590 | |
| M Er | < | 0.000590 | M Mo | < | 0.002400 | O Sc | < | 0.001600 | M Yb | < | 0.000590 | |

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 58.93 +2 6 Co(H₂O)₆2+

Chemical Compatibility - Stable in HCl, HNO₃, H₂SO₄, HF, H₃PO₄. Avoid basic media. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO₃ / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO₃ / LDPE container.

Co Containing Samples (Preparation and Solution) - Metal (soluble in HNO₃); Oxides (Soluble in HCl); Ores (dissolve in HCl / HNO₃).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

| Technique/Line | Estimated D.L. | Order | Interferences (underlined indicates severe) |
|--------------------|------------------|-------|---|
| ICP-MS 59 amu | 2 ppt | n/a | 42Ca16O1H , 40Ar18O1H , 36Ar23Na, 43Ca16O, 24Mg35Cl |
| ICP-OES 228.616 nm | 0.01/0.001 µg/mL | 1 | |
| ICP-OES 237.862 nm | 0.01/0.002 µg/mL | 1 | W, Re, Al, Ta |
| ICP-OES 238.892 nm | 0.01/0.002 µg/mL | 1 | Fe, W, Ta |

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

August 04, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **August 04, 2024**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution
Catalog Number: CGAG10
Lot Number: S2-AG712977
Matrix: 7% (v/v) HNO₃
Value / Analyte(s): 10 000 µg/mL ea:
Silver
Starting Material: Ag Shot
Starting Material Lot#: 2289
Starting Material Purity: 99.9951%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10051 ± 30 µg/mL
Density: 1.056 g/mL (measured at 20 ± 4 °C)

Assay Information:

| | |
|------------------------|---|
| Assay Method #1 | 10051 ± 52 µg/mL ICP Assay NIST SRM 3151 Lot Number: 160729 |
| Assay Method #2 | 10051 ± 19 µg/mL Volhard NIST SRM 999c Lot Number: 999c |
| Assay Method #3 | 10049 ± 31 µg/mL Calculated NIST SRM Lot Number: See Sec. 4.2 |

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char\ i}^2) / (\sum(1/u_{char\ i}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char} = [\sum(w_i)^2 (u_{char\ i})^2]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char\ a})$$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char\ a}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

| | | | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| s Ag < | M Eu < | 0.000260 | O Na | 0.003811 | M Se < | 0.003900 | O Zn | 0.048146 | |
| M Al | 0.002688 | O Fe | 0.006419 | M Nb < | 0.000260 | O Si | 0.005215 | M Zr < | 0.000260 |
| M As < | 0.001100 | M Ga < | 0.000260 | M Nd < | 0.000260 | M Sm < | 0.000260 | | |
| M Au < | 0.000260 | M Gd < | 0.000260 | O Ni | 0.001765 | M Sn | 0.020060 | | |
| O B < | 0.004300 | M Ge < | 0.002300 | M Os < | 0.001100 | O Sr < | 0.000110 | | |
| M Ba < | 0.000520 | M Hf < | 0.000260 | O P < | 0.017000 | M Ta < | 0.000260 | | |
| O Be < | 0.001100 | M Hg < | 0.000770 | M Pb < | 0.003600 | M Tb < | 0.000260 | | |
| M Bi | 0.004814 | M Ho < | 0.000260 | M Pd | 0.044134 | M Te < | 0.009000 | | |
| O Ca | 0.005215 | M In | 0.003691 | M Pr < | 0.000260 | M Th < | 0.000260 | | |
| M Cd < | 0.000260 | M Ir < | 0.000520 | M Pt < | 0.001100 | O Ti < | 0.000440 | | |
| M Ce < | 0.002100 | O K < | 0.008700 | M Rb < | 0.001100 | M Tl < | 0.004100 | | |
| O Co < | 0.000330 | M La < | 0.000260 | M Re < | 0.000260 | M Tm < | 0.000260 | | |
| O Cr < | 0.002500 | O Li < | 0.000110 | M Rh < | 0.000520 | M U < | 0.000260 | | |
| M Cs < | 0.002600 | M Lu < | 0.000260 | M Ru < | 0.000260 | M V < | 0.000260 | | |
| O Cu | 0.357085 | O Mg | 0.001203 | O S < | 0.017000 | M W < | 0.000260 | | |
| M Dy < | 0.000260 | O Mn < | 0.000220 | M Sb < | 0.014000 | M Y < | 0.000260 | | |
| M Er < | 0.000260 | M Mo < | 0.000260 | O Sc < | 0.000220 | M Yb < | 0.000260 | | |

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.
- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.
- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 107.87 +1 6 Ag(H₂O)₆⁺
Chemical Compatibility - Stable in HNO₃, and HF. Avoid basic media. Ag forms more insoluble salts than any other metal. It also is subject to photochemical reduction to the metal in HCl media although 10 µg/mL solutions in 10% HCl [AgCl_x1-x] are commonly used in the analytical laboratory. The most common solubility problems exist with arsenate, arsenite, bromide, chloride, iodide, carbonate, chromate, cyanide, iodate, oxalate, oxide, sulfate, sulfide, tartrate, and thiocyanate in aqueous media. The addition of nitric acid renders many of these salts soluble.

Stability - 2-100 ppb levels stable for 75+ days when mixed with equivalent levels of all other elements including the precious metals (where chloride is present) when in 1% HNO₃ / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO₃ / LDPE container.

Ag Containing Samples (Preparation and Solution) - Metal (Soluble in HNO₃); Oxides (Soluble in HNO₃); Ores (Digestion with conc. HNO₃).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

| Technique/Line | Estimated D.L. | Order | Interferences (underlined indicates severe) |
|--------------------|--------------------|-------|---|
| ICP-MS 107 amu | 1 ppt | N/A | 91Zr16O |
| ICP-OES 243.779 nm | 0.12/0.01 µg/mL | 1 | Mn, Th, Ni, Rh |
| ICP-OES 328.068 nm | 0.007/0.0007 µg/mL | 1 | Ce, Rh, V |
| ICP-OES 338.289 nm | 0.013/0.001 µg/mL | 1 | Ce, Cr, Th |

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

December 28, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **December 28, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Supervisor, Product Documentation



Certificate Approved By:

Michael Booth
Director, Technical



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution
Catalog Number: CGCR(3)10
Lot Number: S2-CR709784
Matrix: 10% (v/v) HNO3
Value / Analyte(s): 10 000 µg/mL ea:
Chromium
Starting Material: Cr Metal
Starting Material Lot#: 2328
Starting Material Purity: 99.9951%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10027 ± 41 µg/mL
Density: 1.072 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1 **10027 ± 40 µg/mL**
ICP Assay NIST SRM 3112a Lot Number: 170630

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$
 w_i = the weighting factors for each method calculated using the inverse square of the variance:
 $w_i = (1/u_{char\ i}^2) / (\sum(1/u_{char\ i}^2))$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2
 u_{char} = $[\sum((w_i)^2 (u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method
 u_{bb} = bottle to bottle homogeneity standard uncertainty
 u_{Its} = long term stability standard uncertainty (storage)
 u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a)(u_{char\ a})$$

X_a = mean of Assay Method A with
 $u_{char\ a}$ = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char\ a}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2
 $u_{char\ a}$ = the errors from characterization
 u_{bb} = bottle to bottle homogeneity standard uncertainty
 u_{Its} = long term stability standard uncertainty (storage)
 u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

| | | | | | | | | | | | | | |
|--------|----------|---|------|----------|---|------|----------|---|------|----------|---|------|----------|
| M Ag < | 0.001700 | M | Eu < | 0.003400 | O | Na | 0.090372 | M | Se < | 0.012000 | O | Zn < | 0.006100 |
| M Al | 0.034916 | O | Fe | 0.246471 | M | Nb < | 0.017000 | n | Si < | | M | Zr < | 0.007800 |
| M As < | 0.028000 | O | Ga < | 0.013000 | M | Nd < | 0.013000 | M | Sm < | 0.006900 | | | |
| M Au < | 0.001700 | M | Gd < | 0.000560 | M | Ni | 0.016020 | M | Sn | 0.006983 | | | |
| O B < | 0.025000 | O | Ge < | 0.014000 | M | Os < | 0.000560 | M | Sr | 0.006367 | | | |
| M Ba < | 0.008900 | M | Hf < | 0.000560 | i | P < | | M | Ta < | 0.000560 | | | |
| M Be < | 0.013000 | M | Hg < | 0.001700 | M | Pb | 0.010064 | M | Tb < | 0.000560 | | | |
| M Bi < | 0.002300 | M | Ho < | 0.000560 | M | Pd < | 0.021000 | M | Te < | 0.010000 | | | |
| O Ca | 0.075995 | M | In < | 0.000560 | M | Pr < | 0.001700 | M | Th < | 0.000560 | | | |
| M Cd < | 0.000560 | M | Ir < | 0.000560 | M | Pt < | 0.001200 | O | Ti | 0.013555 | | | |
| M Ce < | 0.001200 | O | K | 0.043132 | i | Rb < | | M | Tl < | 0.000560 | | | |
| M Co < | 0.002600 | M | La < | 0.001200 | M | Re < | 0.001200 | O | Tm < | 0.013000 | | | |
| s Cr < | | O | Li | 0.000390 | M | Rh < | 0.095000 | M | U < | 0.000560 | | | |
| M Cs < | 0.007800 | M | Lu < | 0.000560 | M | Ru < | 0.087000 | O | V | 0.014993 | | | |
| O Cu | 0.007599 | O | Mg | 0.000883 | i | S < | | M | W < | 0.049000 | | | |
| M Dy < | 0.000560 | M | Mn | 0.008626 | M | Sb < | 0.003400 | M | Y < | 0.001700 | | | |
| M Er < | 0.019000 | M | Mo < | 0.032000 | M | Sc | 0.003080 | M | Yb < | 0.000560 | | | |

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 52.00 +3 6 Cr(H₂O)₆3+

Chemical Compatibility -Stable in HCl, HNO₃, H₂SO₄, HF, H₃PO₄. Avoid basic media. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO₃ / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO₃ / LDPE container.

Cr³⁺ Containing Samples (Preparation and Solution) -Metal (soluble in HCl); Oxides/Ores (Chrome ore/oxides are very difficult to dissolve. The following procedures [A-D] are commonly used: A. Fusion with KHSO₄ and extraction with hot KCl. The residue fused with Na₂CO₃ and KClO₃, 3:1. B. Fusion with NaKSO₄ and NaF 2:1, C. Fusion with magnesia or lime and sodium or potassium carbonates, 4:1. D. Fusion with Na₂O₂ or NaOH and KNO₃ or NaOH and Na₂O₂. Nickel, iron, copper, or silver crucibles should be used for D. Platinum may be used for A, <, C); Organic Matrices (ash at 4500C followed by one of the fusion methods above or sulfuric/hydrogen peroxide acid digestions may be applicable to non oxide containing samples).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

| Technique/Line | Estimated D.L. | Order | Interferences (underlined indicates severe) |
|-----------------------|-----------------------|--------------|---|
| ICP-MS 52 amu | 40 ppt | N/A | 36S16O, 36Ar16O - The 50Cr, 53Cr, 54Cr lines suffer from many more potential interferences from sulfur, chlorine and argon compounds of oxygen, nitrogen and carbon. |
| ICP-OES 205.552 nm | 0.006/0.0008 µg/mL | 1 | Os |
| ICP-OES 276.654 nm | 0.01/0.001 µg/mL | 1 | Cu, Ta, V |
| ICP-OES 284.325 nm | 0.008/0.0007 µg/mL | 1 | |

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

October 26, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **October 26, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution
 Catalog Number: CGNI10
 Lot Number: P2-NI686384
 Matrix: 3% (v/v) HNO3
 Value / Analyte(s): 10 000 µg/mL ea:
 Nickel
 Starting Material: Ni Metal
 Starting Material Lot#: 2277 and 2282
 Starting Material Purity: 99.9992%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 9979 ± 30 µg/mL
Density: 1.038 g/mL (measured at 20 ± 4 °C)

Assay Information:

- Assay Method #1** **9971 ± 54 µg/mL**
 ICP Assay NIST SRM 3136 Lot Number: 120619

- Assay Method #2** **9970 ± 32 µg/mL**
 EDTA NIST SRM 928 Lot Number: 928

- Assay Method #3** **9993 ± 33 µg/mL**
 Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char\ i}^2) / (\sum(1/u_{char\ i}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char} = [\sum(w_i)^2 (u_{char\ i})^2]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char\ a})$$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char\ a}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

| | | | | | | | | | | | | |
|------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| M Ag | 0.002606 | M Eu | < | 0.001100 | O Na | 0.004965 | O Se | < | 0.067000 | M Zn | 0.006578 | |
| M Al | < | 0.013000 | O Fe | 0.018618 | M Nb | < | 0.001100 | O Si | 0.010923 | M Zr | < | 0.001100 |
| O As | < | 0.067000 | M Ga | < | 0.001100 | M Nd | < | 0.001100 | M Sm | < | 0.001100 | |
| M Au | < | 0.002100 | M Gd | < | 0.001100 | s Ni | < | | M Sn | < | 0.016000 | |
| M B | < | 0.017000 | M Ge | < | 0.004200 | M Os | 0.002110 | O Sr | < | 0.000940 | | |
| M Ba | < | 0.001100 | M Hf | < | 0.001100 | i P | < | | M Ta | < | 0.001100 | |
| O Be | < | 0.000410 | M Hg | 0.014895 | M Pb | 0.006578 | M Tb | < | 0.001100 | | | |
| M Bi | < | 0.004200 | M Ho | < | 0.001100 | M Pd | < | 0.001100 | M Te | < | 0.015000 | |
| O Ca | 0.003351 | M In | < | 0.001100 | M Pr | < | 0.001100 | M Th | < | 0.001100 | | |
| M Cd | 0.001365 | M Ir | 0.004716 | M Pt | < | 0.001100 | M Ti | < | 0.004200 | | | |
| M Ce | < | 0.001100 | O K | 0.004716 | M Rb | < | 0.001100 | M Tl | < | 0.001100 | | |
| O Co | 0.017377 | M La | < | 0.001100 | M Re | 0.001737 | M Tm | < | 0.001100 | | | |
| O Cr | < | 0.006700 | O Li | < | 0.000140 | M Rh | < | 0.006300 | M U | < | 0.001100 | |
| M Cs | < | 0.007300 | M Lu | < | 0.001100 | M Ru | < | 0.019000 | M V | < | 0.002100 | |
| M Cu | 0.004096 | O Mg | 0.000372 | i S | < | | | M W | < | 0.006300 | | |
| M Dy | < | 0.001100 | O Mn | < | 0.001900 | M Sb | 0.005833 | O Y | < | 0.000540 | | |
| M Er | < | 0.001100 | M Mo | < | 0.008400 | M Sc | < | 0.002100 | M Yb | < | 0.001100 | |

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 58.69 +2 6 Ni(H₂O)₆²⁺

Chemical Compatibility -Stable in HCl, HNO₃, H₂SO₄, HF, H₃PO₄. Avoid basic media. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO₃ / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO₃ / LDPE container.

Ni Containing Samples (Preparation and Solution) -Metal (Soluble in HNO₃); Oxides (Soluble in HCl); Ores (Dissolve in HCl / HNO₃).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

| Technique/Line | Estimated D.L. | Order | Interferences (underlined indicates severe) |
|--------------------|---------------------|-------|---|
| ICP-MS 60 amu | 100 ppt | n/a | 43Ca16O1H , 44Ca16O, 23Na37Cl |
| ICP-OES 221.647 nm | 0.01 / 0.0009 µg/mL | 1 | Si |
| ICP-OES 231.604 nm | 0.02 / 0.002 µg/mL | 1 | Sb, Ta, Co |
| ICP-OES 232.003 nm | 0.02 / 0.006 µg/mL | 1 | Cr, Re, Os, Nb, Ag, Pt, Fe |

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

December 02, 2019

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **December 02, 2023**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Manager, Quality Control



Certifying Officer:

Paul Gaines
CEO, Senior Technical Director



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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution
Catalog Number: CGV10
Lot Number: S2-V711005
Matrix: 7% (v/v) HNO₃
Value / Analyte(s): 10 000 µg/mL ea:
Vanadium
Starting Material: Vanadium Pentoxide
Starting Material Lot#: 1782
Starting Material Purity: 99.9877%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10014 ± 30 µg/mL
Density: 1.104 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1 **10017 ± 42 µg/mL**
ICP Assay NIST SRM 3165 Lot Number: 160906

Assay Method #2 **10013 ± 30 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char\ i}^2) / (\sum(1/u_{char\ j}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char} = [\sum((w_i)^2 (u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char\ a})$$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char\ a}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES ($\mu\text{g/mL}$)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 μm .

| | | | | |
|-----------------|-----------------|-----------------|-----------------|-----------------|
| M Ag < 0.000110 | M Eu < 0.000110 | O Na 0.120000 | M Se < 0.009400 | M Zn 0.009400 |
| O Al 0.120000 | O Fe 0.460000 | M Nb < 0.001300 | O Si 0.270000 | M Zr < 0.002900 |
| M As < 0.000210 | M Ga < 0.009300 | M Nd < 0.000610 | M Sm < 0.000110 | |
| M Au < 0.004700 | M Gd < 0.000110 | M Ni 0.012000 | M Sn 0.003900 | |
| M B 0.051000 | M Ge < 0.000410 | M Os < 0.000110 | O Sr 0.007100 | |
| M Ba 0.003600 | M Hf < 0.000110 | O P < 0.034000 | M Ta < 0.000110 | |
| O Be < 0.000560 | M Hg < 0.000410 | M Pb 0.001400 | M Tb < 0.000110 | |
| M Bi < 0.000210 | M Ho < 0.000110 | M Pd < 0.000410 | M Te < 0.000110 | |
| O Ca 0.730000 | M In < 0.000110 | M Pr < 0.000110 | M Th < 0.000210 | |
| M Cd < 0.000610 | M Ir < 0.000110 | M Pt < 0.000110 | M Ti 0.017000 | |
| M Ce < 0.000610 | M K 0.052000 | M Rb < 0.000310 | M Tl < 0.000110 | |
| M Co < 0.001300 | M La < 0.000410 | M Re 0.001700 | M Tm < 0.000110 | |
| O Cr 0.170000 | M Li < 0.000810 | M Rh < 0.000110 | M U < 0.000410 | |
| M Cs 0.005600 | M Lu < 0.000110 | M Ru < 0.000110 | s V < | |
| M Cu < 0.001300 | M Mg 0.053000 | i S < | M W 0.002000 | |
| M Dy < 0.000110 | M Mn 0.007900 | M Sb 0.078000 | M Y < 0.000110 | |
| M Er < 0.000110 | M Mo 0.094000 | M Sc < 0.000410 | M Yb < 0.000110 | |

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.
- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.
- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 50.94 +5 6 H₂V₁₀O₂₈-

Chemical Compatibility -Soluble in HCl, HNO₃, H₂SO₄, HF, H₃PO₄ and strong basic media. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO₃ / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO₃ / LDPE container.

V Containing Samples (Preparation and Solution) -Metal (Fusion with NaOH or KOH in NiO or Na₂CO₃ / KNO₃); Oxides (V₂O₃ - use HCl, V₂O₄ - use HCl or HNO₃, V₂O₅ - use concentrated acids); Ores (Na₂CO₃ / KNO₃ in PtO caution - nitrates attack PtO followed by water extraction of fuseate); Organic Matrices (Ash at 450 EC followed by dissolving according to V₂O₅ above) .

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

| <u>Technique/Line</u> | <u>Estimated D.L.</u> | <u>Order</u> | <u>Interferences</u> (underlined indicates severe) |
|-----------------------|-----------------------|--------------|--|
| ICP-MS 51 amu | 4 ppt | N/A | 34S16O1H, 35Cl16O, 38Ar13C, 36Ar15N, 36Ar14N1H, 37Cl14N,36S15N, 33S18O, 34S17O, 102Ru+2,02Pd+2 |
| ICP-OES 290.882 nm | 0.008 / 0.0008 µg/mL | 1 | Hf, Nb |
| ICP-OES 292.402 nm | 0.006 / 0.001 µg/mL | 1 | Th |
| ICP-OES 309.311 nm | 0.005 / 0.001 µg/mL | 1 | Mg, U, Th |

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

December 28, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **December 28, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity


- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution
Catalog Number: CGAL10
Lot Number: T2-AL716102
Matrix: 7% (v/v) HNO₃
Value / Analyte(s): 10 000 µg/mL ea:
Aluminum
Starting Material: Aluminum Nitrate Nonahydrate
Starting Material Lot#: 2460
Starting Material Purity: 99.9938%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10049 ± 31 µg/mL
Density: 1.087 g/mL (measured at 20 ± 4 °C)

Assay Information:

| | |
|------------------------|---|
| Assay Method #1 | 10059 ± 40 µg/mL ICP Assay NIST SRM 3101a Lot Number: 140903 |
| Assay Method #2 | 10044 ± 26 µg/mL EDTA NIST SRM 928 Lot Number: 928 |
| Assay Method #3 | 10049 ± 35 µg/mL Calculated NIST SRM Lot Number: See Sec. 4.2 |

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char\ i}^2) / (\sum(1/u_{char\ j}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char} = [\sum(w_i)^2 (u_{char\ i})^2]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char\ a})$$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char\ a}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

| | | | | |
|-----------------|-----------------|-----------------|-----------------|-----------------|
| M Ag < 0.002100 | M Eu < 0.002100 | O Na < 0.352819 | M Se < 0.005200 | M Zn < 0.006018 |
| s Al < 0.002100 | O Fe < 0.074714 | M Nb < 0.000520 | O Si < 0.017848 | O Zr < 0.004358 |
| M As < 0.008716 | O Ga < 0.112072 | M Nd < 0.000520 | M Sm < 0.000520 | |
| M Au < 0.008400 | M Gd < 0.001100 | O Ni < 0.006000 | M Sn < 0.000747 | |
| O B < 0.014000 | M Ge < 0.005200 | M Os < 0.000650 | O Sr < 0.000518 | |
| O Ba < 0.012867 | M Hf < 0.004100 | n P < 0.000520 | M Ta < 0.000520 | |
| O Be < 0.000270 | M Hg < 0.002000 | M Pb < 0.002282 | M Tb < 0.000520 | |
| M Bi < 0.001930 | M Ho < 0.000520 | M Pd < 0.000520 | M Te < 0.001100 | |
| O Ca < 0.076790 | M In < 0.002100 | M Pr < 0.000520 | M Th < 0.000520 | |
| M Cd < 0.000520 | M Ir < 0.000650 | M Pt < 0.000520 | O Ti < 0.001930 | |
| M Ce < 0.001100 | O K < 0.043583 | M Rb < 0.000520 | M Tl < 0.000520 | |
| O Co < 0.005400 | M La < 0.002100 | M Re < 0.000520 | M Tm < 0.000520 | |
| O Cr < 0.006018 | O Li < 0.000112 | M Rh < 0.000520 | M U < 0.000520 | |
| M Cs < 0.000643 | M Lu < 0.000520 | M Ru < 0.002000 | M V < 0.001286 | |
| O Cu < 0.008300 | O Mg < 0.068488 | i S < 0.000520 | M W < 0.009800 | |
| M Dy < 0.002100 | O Mn < 0.000913 | M Sb < 0.003100 | M Y < 0.001100 | |
| M Er < 0.000520 | M Mo < 0.005396 | O Sc < 0.000950 | M Yb < 0.000520 | |

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.
- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.
- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 26.98 +3 6 Al(H₂O)₆+3

Chemical Compatibility -Soluble in HCl, HNO₃, vF and v₂SO₄. Avoid neutral media. Soluble in strongly basic NaOH forming the Al(OH)₄(H₂O)₂⁻ species. Stable with most metals and inorganic anions. The phosphate is insoluble in water and only slightly soluble in acid.

Stability - 2-100 ppb levels stable for months in 1% HNO₃ / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO₃ / LDPE container.

Al Containing Samples (Preparation and Solution) -Metal (Best dissolved in HCl / HNO₃); a- Al₂O₃ (Na₂CO₃ fusion in PtO);

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

| Technique/Line | Estimated D.L. | Order | Interferences (underlined indicates severe) |
|-----------------------|-----------------------|--------------|--|
| ICP-MS 27 amu | 30 ppt | N/A | 12C15N, 13C14N, 1H12C14N, 11B16O, 54Cr2+, 54Fe2+ |
| ICP-OES 167.078 nm | 0.1/0.009 µg/mL | 1 | Fe |
| ICP-OES 394.401 nm | 0.05/0.006 µg/mL | 1 | U, Ce |
| ICP-OES 396.152 nm | 0.03/0.006 µg/mL | 1 | Mo, Zr, Ce |

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

March 22, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **March 22, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

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F: 540-585-3012
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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution
Catalog Number: CGK10
Lot Number: S2-K711973
Matrix: 2% (v/v) HNO₃
Value / Analyte(s): 10 000 µg/mL ea:
Potassium
Starting Material: KNO₃
Starting Material Lot#: 2313
Starting Material Purity: 99.9971%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 9992 ± 30 µg/mL
Density: 1.024 g/mL (measured at 20 ± 4 °C)

Assay Information:

| | |
|------------------------|---|
| Assay Method #1 | 9987 ± 24 µg/mL Gravimetric NIST SRM Lot Number: See Sec. 4.2 |
| Assay Method #2 | 10004 ± 84 µg/mL ICP Assay NIST SRM 3141a Lot Number: 140813 |
| Assay Method #3 | 10007 ± 45 µg/mL Calculated NIST SRM Lot Number: See Sec. 4.2 |

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{char i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char i}^2) / (\sum(1/u_{char j}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char} = [\sum(w_i)^2 (u_{char i})^2]^{1/2}$ where $u_{char i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char a})$$

X_a = mean of Assay Method A with

$u_{char a}$ = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char a}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES ($\mu\text{g/mL}$)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 μm .

| | | | | |
|-----------------|-----------------|-----------------|-----------------|-----------------|
| M Ag < 0.001400 | M Eu < 0.000660 | O Na 0.246220 | M Se < 0.007900 | O Zn 0.018056 |
| O Al 0.001592 | O Fe 0.005909 | M Nb < 0.000660 | O Si 0.011490 | O Zr < 0.001600 |
| M As < 0.005300 | M Ga < 0.000660 | M Nd < 0.000660 | M Sm < 0.000660 | |
| M Au < 0.002000 | M Gd < 0.000660 | O Ni < 0.004900 | M Sn < 0.000660 | |
| O B < 0.005600 | M Ge < 0.002000 | M Os < 0.003300 | O Sr 0.000055 | |
| O Ba < 0.000860 | M Hf < 0.000660 | O P < 0.032000 | M Ta < 0.000660 | |
| O Be < 0.000082 | M Hg < 0.002000 | M Pb < 0.002300 | M Tb < 0.000660 | |
| M Bi < 0.006600 | M Ho < 0.000660 | M Pd < 0.000660 | M Te < 0.017000 | |
| O Ca 0.031187 | M In < 0.000660 | M Pr < 0.000660 | M Th < 0.000660 | |
| O Cd < 0.000450 | M Ir < 0.000660 | M Pt < 0.002700 | M Ti < 0.000660 | |
| M Ce < 0.000660 | s K < | M Rb 0.476026 | M Tl < 0.000660 | |
| O Co < 0.000780 | M La < 0.000660 | M Re < 0.000660 | M Tm < 0.000660 | |
| O Cr 0.000541 | O Li < 0.000084 | M Rh < 0.000660 | M U < 0.000660 | |
| M Cs < 0.000660 | M Lu < 0.000660 | M Ru < 0.000660 | O V < 0.001100 | |
| M Cu < 0.002700 | O Mg 0.006237 | O S 0.027905 | M W < 0.000660 | |
| M Dy < 0.000660 | O Mn 0.000476 | M Sb < 0.000660 | M Y < 0.000660 | |
| M Er < 0.000660 | M Mo < 0.000660 | O Sc < 0.000340 | O Yb < 0.000270 | |

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.
- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.
- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 39.10 +1 (6) K+(aq)

Chemical Compatibility -Soluble in HCl, HNO₃, H₂SO₄ and HF aqueous matrices. Avoid use of HClO₄ due to insolubility of the perchlorate. Stable with all metals and inorganic anions except ClO₄⁻.

Stability - 2-100 ppb levels stable for months in 1% HNO₃ / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO₃ / LDPE container.

K Containing Samples (Preparation and Solution) - Metal (Dissolves very rapidly in water); Ores (Sodium carbonate fusion in Pt0 followed by HCl dissolution-blank levels of K in sodium carbonate critical); Organic Matrices (Sulfuric/peroxide digestion)

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

| Technique/Line | Estimated D.L. | Order | Interferences (underlined indicates severe) |
|-----------------------|-----------------------|--------------|--|
| ICP-MS 39 amu | 10 ppt | n/a | 38ArH, 23Na16O, 78Se |
| ICP-OES 404.721 nm | 1.1 / 0.05 µg/mL | 1 | U, Ce |
| ICP-OES 766.490 nm | 0.4 / 0.001 µg/mL | 1 | 2nd order radiation from R.E.s on some optical designs |
| ICP-OES 771.531 nm | 1.0 / 0.03 µg/mL | 1 | 2nd order radiation from R.E.s on some optical designs |

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

December 10, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **December 10, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity


- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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Christiansburg, VA 24073 USA
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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution
Catalog Number: CGMG10
Lot Number: S2-MG704239
Matrix: 2% (v/v) HNO₃
Value / Analyte(s): 10 000 µg/mL ea:
Magnesium
Starting Material: Magnesium Metal
Starting Material Lot#: 2168
Starting Material Purity: 99.9984%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10053 ± 30 µg/mL
Density: 1.053 g/mL (measured at 20 ± 4 °C)

Assay Information:

| | |
|------------------------|---|
| Assay Method #1 | 10022 ± 62 µg/mL ICP Assay NIST SRM 3131a Lot Number: 140110 |
| Assay Method #2 | 10078 ± 26 µg/mL EDTA NIST SRM 928 Lot Number: 928 |
| Assay Method #3 | 10033 ± 26 µg/mL Calculated NIST SRM Lot Number: See Sec. 4.2 |

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char\ i}^2) / (\sum(1/u_{char\ j}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char} = [\sum(w_i)^2 (u_{char\ i})^2]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char\ a})$$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char\ a}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

| | | | | | | | | | | |
|--------|----------|---|------|----------|--------|----------|--------|----------|--------|----------|
| O Ag | 0.002106 | M | Eu < | 0.000910 | O Na | 0.071075 | O Se < | 0.048000 | O Zn | 0.003299 |
| M Al | 0.003553 | M | Fe | 0.002538 | M Nb < | 0.000460 | O Si < | 0.032000 | O Zr < | 0.002700 |
| M As < | 0.001400 | M | Ga < | 0.000460 | M Nd < | 0.000910 | M Sm < | 0.000460 | | |
| M Au < | 0.001400 | M | Gd < | 0.000460 | O Ni < | 0.001600 | M Sn < | 0.002300 | | |
| O B | 0.006853 | M | Ge < | 0.001400 | M Os < | 0.000460 | O Sr | 0.000279 | | |
| O Ba | 0.000964 | M | Hf < | 0.000460 | O P | 0.015230 | M Ta < | 0.000460 | | |
| O Be < | 0.000120 | M | Hg < | 0.000460 | M Pb < | 0.000460 | M Tb < | 0.000460 | | |
| M Bi < | 0.000460 | M | Ho < | 0.000460 | M Pd < | 0.003200 | M Te < | 0.007300 | | |
| O Ca | 0.053306 | M | In < | 0.000460 | M Pr < | 0.000460 | M Th < | 0.000460 | | |
| O Cd < | 0.000360 | M | Ir < | 0.000460 | M Pt < | 0.001900 | O Ti < | 0.001700 | | |
| M Ce < | 0.002300 | M | K | 0.048229 | M Rb | 0.002411 | M Tl | 0.003046 | | |
| M Co < | 0.000910 | M | La < | 0.002800 | M Re < | 0.000460 | M Tm < | 0.000460 | | |
| M Cr < | 0.002300 | O | Li | 0.027922 | M Rh < | 0.000460 | M U < | 0.000460 | | |
| M Cs | 0.001040 | M | Lu < | 0.000460 | M Ru < | 0.000460 | M V < | 0.000460 | | |
| O Cu < | 0.003000 | s | Mg < | | O S < | 0.190000 | M W < | 0.000460 | | |
| M Dy < | 0.000460 | O | Mn | 0.015230 | M Sb | 0.020814 | O Y < | 0.000720 | | |
| M Er < | 0.000460 | M | Mo < | 0.000910 | O Sc < | 0.000480 | M Yb < | 0.000460 | | |

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.
- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.
- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 24.31 +2 6 Mg(H₂O)₆+2

Chemical Compatibility -Soluble in HCl, HNO₃, and H₂SO₄ avoid HF, H₃PO₄ and neutral to basic media. Stable with most metals and inorganic anions forming insoluble silicates, carbonates, hydroxides, oxides, and tungstates in neutral and slightly acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO₃ / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-10% HNO₃ / LDPE container.

Mg Containing Samples (Preparation and Solution) -Metal (Best dissolved in diluted HNO₃); Oxide (Readily soluble in above compatible aqueous acidic solutions); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (Sulfuric / peroxide digestion or nitric / sulfuric / perchloric acid decomposition, or dry ash and dissolution in dilute HCl).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

| Technique/Line | Estimated D.L. | Order | Interferences (underlined indicates severe) |
|-----------------------|------------------------|--------------|--|
| ICP-MS 24 amu | 42 ppt | n/a | 7Li17O, 48Ti+2 , 48Ca+2 |
| ICP-OES 279.553 nm | 0.0002 / 0.00003 µg/mL | 1 | Th |
| ICP-OES 280.270 nm | 0.0003 / 0.00005 µg/mL | 1 | U, V |
| ICP-OES 285.213 nm | 0.002 / 0.00003 µg/mL | 1 | U, Hf, Cr, Zr |

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

April 23, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **April 23, 2025**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution
Catalog Number: CGCA10
Lot Number: T2-CA716103
Matrix: 2% (v/v) HNO₃
Value / Analyte(s): 10 000 µg/mL ea:
Calcium
Starting Material: CaCO₃
Starting Material Lot#: 2472
Starting Material Purity: 99.9950%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10005 ± 30 µg/mL
Density: 1.039 g/mL (measured at 20 ± 4 °C)

Assay Information:

| | |
|------------------------|---|
| Assay Method #1 | 10005 ± 45 µg/mL ICP Assay NIST SRM 3109a Lot Number: 130213 |
| Assay Method #2 | 10005 ± 25 µg/mL EDTA NIST SRM 928 Lot Number: 928 |
| Assay Method #3 | 10005 ± 31 µg/mL Calculated NIST SRM Lot Number: See Sec. 4.2 |

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char\ i}^2) / (\sum(1/u_{char\ j}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char} = [\sum(w_i)^2 (u_{char\ i})^2]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char\ a})$$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char\ a}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES ($\mu\text{g/mL}$)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 μm .

| | | | | |
|-----------------|-----------------|-----------------|-----------------|-----------------|
| M Ag < 0.001200 | M Eu < 0.001200 | O Na < 0.006112 | M Se < 0.024000 | M Zn < 0.005362 |
| M Al < 0.065419 | O Fe < 0.009115 | M Nb < 0.001200 | O Si < 0.139417 | O Zr < 0.006700 |
| O As < 0.013000 | M Ga < 0.015000 | M Nd < 0.020000 | M Sm < 0.001200 | |
| M Au < 0.017000 | M Gd < 0.004800 | O Ni < 0.000793 | M Sn < 0.003600 | |
| O B < 0.001179 | M Ge < 0.003600 | M Os < 0.001200 | M Sr < 0.081505 | |
| O Ba < 0.002788 | M Hf < 0.001200 | O P < 0.041000 | M Ta < 0.001200 | |
| O Be < 0.000410 | M Hg < 0.004800 | M Pb < 0.001608 | M Tb < 0.001200 | |
| M Bi < 0.001608 | M Ho < 0.001200 | M Pd < 0.001200 | M Te < 0.003600 | |
| s Ca < | M In < 0.001200 | M Pr < 0.000257 | M Th < 0.001200 | |
| O Cd < 0.001300 | M Ir < 0.001200 | M Pt < 0.003600 | O Ti < 0.001900 | |
| M Ce < 0.001029 | O K < 0.009759 | M Rb < 0.001200 | M Tl < 0.001200 | |
| O Co < 0.000418 | M La < 0.001823 | M Re < 0.001200 | M Tm < 0.001200 | |
| O Cr < 0.003324 | O Li < 0.007300 | M Rh < 0.001200 | M U < 0.002144 | |
| M Cs < 0.007399 | M Lu < 0.000128 | M Ru < 0.001200 | M V < 0.001286 | |
| O Cu < 0.011000 | M Mg < 1.286934 | O S < 0.055767 | O W < 0.024000 | |
| M Dy < 0.002400 | O Mn < 0.004611 | M Sb < 0.009600 | O Y < 0.000536 | |
| M Er < 0.002400 | M Mo < 0.003539 | O Sc < 0.001400 | M Yb < 0.001200 | |

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.
- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.
- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 40.08 +2 6 Ca(H₂O)₆+2
Chemical Compatibility - Soluble in HCl and HNO₃. Avoid H₂SO₄, vF, v3PO₄ and neutral to basic media. Stable with most metals and inorganic anions forming insoluble silicate, carbonate, hydroxide, oxide, fluoride, sulfate, oxalate, chromate, arsenate, and tungstate in neutral aqueous media.

Stability - 2-100 ppb levels stable for months in 1% HNO₃ / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-10% HNO₃ / LDPE container.

Ca Containing Samples)Preparation and Solution -Metal (best dissolved in diluted HNO₃); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (dry ash and dissolution in dilute HCl. Do not heat when dissolving to avoid precipitation of SiO₂). The oxide, hydroxide, carbonate, phosphate, and fluoride of calcium are soluble in % levels of HCl or HNO₃. The sulfates (gypsum, anhydrite, etc.), certain silicates, and complex compounds require fusion with Na₂CO₃ followed by HCl / water dissolution. Note that contamination is a very real problem when analyzing for trace levels.

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

| Technique/Line | Estimated D.L. | Order | Interferences (underlined indicates severe) |
|--------------------|------------------------|-------|---|
| ICP-MS 44 amu | 1200 ppt | n/a | 16O212C, 28Si16O, 88Sr |
| ICP-OES 393.366 nm | 0.0002 / 0.00004 µg/mL | 1 | U, Ce |
| ICP-OES 396.847 nm | 0.0005 / 0.00006 µg/mL | 1 | Th |
| ICP-OES 422.673 nm | 0.01 / 0.001 µg/mL | 1 | Ge |

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

March 14, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **March 14, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution
Catalog Number: CGNA10
Lot Number: T2-NA717221
Matrix: 2% (v/v) HNO₃
Value / Analyte(s): 10 000 µg/mL ea:
Sodium
Starting Material: Na₂CO₃
Starting Material Lot#: 2358 and 2453
Starting Material Purity: 99.9977%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 9977 ± 30 µg/mL
Density: 1.033 g/mL (measured at 20 ± 4 °C)

Assay Information:

| | |
|------------------------|---|
| Assay Method #1 | 9974 ± 18 µg/mL Gravimetric NIST SRM Lot Number: See Sec. 4.2 |
| Assay Method #2 | 9977 ± 34 µg/mL ICP Assay NIST SRM 3152a Lot Number: 200413 |
| Assay Method #3 | 9987 ± 31 µg/mL Calculated NIST SRM Lot Number: See Sec. 4.2 |

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i) (X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char\ i})^2 / (\sum(1/(u_{char\ i})^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char} = [\sum(w_i)^2 (u_{char\ i})^2]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char\ a})$$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char\ a}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES ($\mu\text{g/mL}$)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 μm .

| | | | | |
|-----------------|-----------------|-----------------|-----------------|-----------------|
| M Ag < 0.000930 | M Eu < 0.000930 | s Na < | M Se < 0.003800 | O Zn < 0.000138 |
| M Al < 0.004409 | O Fe < 0.002393 | M Nb < 0.000930 | O Si < 0.056696 | O Zr < 0.003200 |
| O As < 0.023000 | M Ga < 0.000930 | M Nd < 0.000930 | M Sm < 0.000930 | |
| O Au < 0.004100 | M Gd < 0.000930 | O Ni < 0.003000 | M Sn < 0.002800 | |
| O B < 0.001385 | M Ge < 0.004700 | M Os < 0.000930 | O Sr < 0.000251 | |
| M Ba < 0.004031 | M Hf < 0.000930 | O P < 0.010205 | M Ta < 0.000930 | |
| O Be < 0.000130 | M Hg < 0.000930 | M Pb < 0.000930 | M Tb < 0.000930 | |
| M Bi < 0.000930 | M Ho < 0.000930 | M Pd < 0.000930 | M Te < 0.001900 | |
| O Ca < 0.176388 | M In < 0.000930 | M Pr < 0.000930 | M Th < 0.000352 | |
| O Cd < 0.000860 | M Ir < 0.000930 | M Pt < 0.000930 | O Ti < 0.000592 | |
| M Ce < 0.001900 | O K < 0.302380 | M Rb < 0.000930 | M Tl < 0.000930 | |
| O Co < 0.001800 | O La < 0.002100 | M Re < 0.000930 | M Tm < 0.000930 | |
| M Cr < 0.002800 | O Li < 0.000031 | M Rh < 0.000930 | M U < 0.000930 | |
| M Cs < 0.000930 | M Lu < 0.000930 | M Ru < 0.001900 | O V < 0.001600 | |
| O Cu < 0.003900 | O Mg < 0.026458 | O S < 0.040317 | O W < 0.028000 | |
| M Dy < 0.000930 | O Mn < 0.000740 | M Sb < 0.000930 | O Y < 0.000860 | |
| M Er < 0.000930 | O Mo < 0.003600 | O Sc < 0.000610 | O Yb < 0.000250 | |

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.
- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.
- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 22.99 +1 (6) Na+(aq) largely ionic in nature

Chemical Compatibility -Soluble in HCl, HNO₃, H₂SO₄ and HF aqueous matrices. Stable with all metals and inorganic anions.

Stability - 2-100 ppb levels stable for months in 1% HNO₃ / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO₃ / LDPE container.

Na Containing Samples (Preparation and Solution) - Metal (Dissolves very rapidly in water); Ores (Lithium carbonate fusion in graphite crucible followed by HCl dissolution - blank levels of Na in lithium carbonate critical); Organic Matrices (Sulfuric / peroxide digestion or nitric/sulfuric/perchloric acid decomposition).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

| Technique/Line | Estimated D.L. | Order | Interferences (underlined indicates severe) |
|-----------------------|-----------------------|--------------|--|
| ICP-MS 23 amu | 310 ppt | n/a | 46Ti+2 , 46Ca+2 |
| ICP-OES 330.237 nm | 2.0 / 0.09 µg/mL | 1 | Pd, Zn |
| ICP-OES 588.995 nm | 0.03 / 0.006 µg/mL | 1 | 2nd order radiation from R.E.s on some optical designs |
| ICP-OES 589.595 nm | 0.07 / 0.00009 µg/mL | 1 | 2nd order radiation from R.E.s on some optical designs |

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

April 20, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **April 20, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity


- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution
Catalog Number: CGU1
Lot Number: S2-U707914
Matrix: 2% (v/v) HNO₃
Value / Analyte(s): 1 000 µg/mL ea:
Uranium
Starting Material: Uranyl Nitrate Hexahydrate
Starting Material Lot#: P2-2322
Starting Material Purity: 99.9997%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 999 ± 5 µg/mL
Density: 1.010 g/mL (measured at 20 ± 4 °C)

Assay Information:

| | |
|------------------------|---|
| Assay Method #1 | 998 ± 5 µg/mL ICP Assay NIST SRM 3164 Lot Number: 080521 |
| Assay Method #2 | 1001 ± 6 µg/mL Calculated NIST SRM Lot Number: See Sec. 4.2 |

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{char i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char i}^2) / (\sum(1/u_{char i}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

u_{char} = $[\sum(w_i)^2 (u_{char i}^2)]^{1/2}$ where $u_{char i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char a})$$

X_a = mean of Assay Method A with

$u_{char a}$ = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char a}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Certified Abundance:

IV's Certified Abundance

| Isotope | Atom % |
|--------------|-------------|
| Uranium 238U | 99.8 ± 0.1 |
| Uranium 235U | 0.19 ± 0.05 |

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

| | | | | |
|-----------------|-----------------|-----------------|-----------------|-----------------|
| M Ag < 0.000270 | M Eu < 0.000270 | M Na < 0.011000 | M Se < 0.009300 | M Zn < 0.002358 |
| M Al < 0.011000 | M Fe < 0.003222 | M Nb < 0.000270 | M Si < 0.160000 | M Zr < 0.001100 |
| M As < 0.002400 | M Ga < 0.000270 | M Nd < 0.000270 | M Sm < 0.000270 | |
| M Au < 0.000270 | M Gd < 0.000270 | M Ni < 0.020000 | M Sn < 0.011000 | |
| M B < 0.000270 | M Ge < 0.000800 | M Os < 0.001900 | M Sr < 0.000270 | |
| M Ba < 0.003800 | M Hf < 0.000270 | i P < | M Ta < 0.000270 | |
| M Be < 0.000270 | M Hg < 0.000540 | M Pb < 0.002200 | M Tb < 0.000270 | |
| M Bi < 0.000270 | M Ho < 0.000270 | M Pd < 0.000540 | M Te < 0.003800 | |
| M Ca < 0.140000 | M In < 0.000270 | M Pr < 0.000270 | M Th < 0.000129 | |
| M Cd < 0.000270 | M Ir < 0.000270 | M Pt < 0.000270 | M Ti < 0.002700 | |
| M Ce < 0.000540 | O K < 0.250000 | M Rb < 0.000800 | M Tl < 0.000270 | |
| M Co < 0.000800 | M La < 0.000117 | M Re < 0.064000 | M Tm < 0.000270 | |
| M Cr < 0.000943 | M Li < 0.003000 | M Rh < 0.000270 | s U < | |
| M Cs < 0.000106 | M Lu < 0.000270 | M Ru < 0.000540 | M V < 0.000540 | |
| M Cu < 0.001100 | M Mg < 0.003000 | i S < | M W < 0.000540 | |
| M Dy < 0.000270 | M Mn < 0.006900 | M Sb < 0.000270 | M Y < 0.000270 | |
| M Er < 0.000270 | M Mo < 0.006400 | M Sc < 0.000540 | M Yb < 0.000270 | |

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 238.03 +6 8 UO₂²⁺(uranyl)

Chemical Compatibility - Soluble in HCl and HNO₃. Avoid H₃PO₄. H₂SO₄ and HF matrices should not be a problem depending upon [U]. Although the UO₂²⁺ ion is distinctly basic, any U+4 will precipitate in basic media. UO₂²⁺salts are generally soluble in water and UO₂²⁺ is stable with most metals and inorganic anions. The uranyl phosphate is insoluble in water. UF₄ and UF₆ are water soluble.

Stability - 2-100 ppb levels stable for months in 1% HNO₃ / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO₃ / LDPE container.

U Containing Samples (Preparation and Solution) -Metal (Dissolves rapidly in HCl and HNO₃); Oxide (Soluble in HNO₃); Ores (Digest for 1-2 hours with 1 gram of ore to 30 mL 1:1 HNO₃. Silica insolubles are removed by filtration after bringing the sample to fumes with conc. H₂SO₄.)

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

| Technique/Line | Estimated D.L. | Order | Interferences (underlined indicates severe) |
|--------------------|------------------|-------|--|
| ICP-MS 238 amu | 2 ppt | N/A | 206Pb16O2 |
| ICP-OES 263.553 nm | 0.3 / 0.01 µg/mL | 1 | Ce, Ir, Th, Rh, W, Zr, Ta, Ti, V, Hf, Fe, Re, Ru |
| ICP-OES 367.007 nm | 0.3 / 0.02 µg/mL | 1 | Th, Ce |
| ICP-OES 385.958 nm | 0.3 / 0.01 µg/mL | 1 | Th, Fe |

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

August 28, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **August 28, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

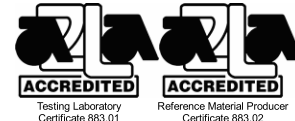


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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code: Multi Analyte Custom Grade Solution
Catalog Number: AR-ICVMS-2
Lot Number: T2-MEB719895
Matrix: 3% (v/v) HNO3
tr. HF
Value / Analyte(s): 2.5 µg/mL ea:
Molybdenum, Antimony

3.0 CERTIFIED VALUES AND UNCERTAINTIES

| ANALYTE | CERTIFIED VALUE | ANALYTE | CERTIFIED VALUE |
|--------------|---------------------|----------------|---------------------|
| Antimony, Sb | 2.499 ± 0.015 µg/mL | Molybdenum, Mo | 2.500 ± 0.017 µg/mL |

Density: 1.014 g/mL (measured at 20 ± 4 °C)

Assay Information:

| ANALYTE | METHOD | NIST SRM# | SRM LOT# |
|---------|------------|-----------|--------------|
| Mo | ICP Assay | 3134 | 130418 |
| Mo | Calculated | | See Sec. 4.2 |
| Sb | ICP Assay | 3102a | 140911 |
| Sb | Calculated | | See Sec. 4.2 |

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{char i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char i}^2) / (\sum(1/u_{char i}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char} = [\sum((w_i)^2 (u_{char i}^2))]^{1/2}$ where $u_{char i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char a})$$

X_a = mean of Assay Method A with

$u_{char a}$ = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char a}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

June 06, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **June 06, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity


- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

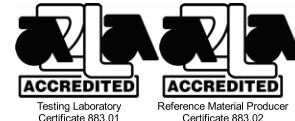


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1.0 ACCREDITATION / REGISTRATION

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2.0 PRODUCT DESCRIPTION

| | | |
|---------------------|-------------------------------------|------------|
| Product Code: | Multi Analyte Custom Grade Solution | |
| Catalog Number: | AR-ICVMS-3 | |
| Lot Number: | T2-MEB719896 | |
| Matrix: | 7% (v/v) HNO3 | |
| Value / Analyte(s): | 250 µg/mL ea: | |
| | Aluminum, | Calcium, |
| | Iron, | Potassium, |
| | Magnesium, | Sodium, |
| | 4 µg/mL ea: | |
| | Selenium, | |
| | 2.5 µg/mL ea: | |
| | Thorium, | Thallium, |
| | Uranium, | Vanadium, |
| | Zinc, | Manganese, |
| | Cadmium, | Cobalt, |
| | Chromium, | Copper, |
| | Arsenic, | Barium, |
| | Beryllium, | Nickel, |
| | Lead, | Silver |

3.0 CERTIFIED VALUES AND UNCERTAINTIES

| ANALYTE | CERTIFIED VALUE | ANALYTE | CERTIFIED VALUE |
|---------------|---------------------|---------------|---------------------|
| Aluminum, Al | 250.0 ± 0.9 µg/mL | Arsenic, As | 2.500 ± 0.018 µg/mL |
| Barium, Ba | 2.501 ± 0.013 µg/mL | Beryllium, Be | 2.501 ± 0.015 µg/mL |
| Cadmium, Cd | 2.501 ± 0.013 µg/mL | Calcium, Ca | 250.0 ± 1.3 µg/mL |
| Chromium, Cr | 2.500 ± 0.015 µg/mL | Cobalt, Co | 2.500 ± 0.014 µg/mL |
| Copper, Cu | 2.500 ± 0.014 µg/mL | Iron, Fe | 250.0 ± 1.0 µg/mL |
| Lead, Pb | 2.500 ± 0.013 µg/mL | Magnesium, Mg | 250.0 ± 1.3 µg/mL |
| Manganese, Mn | 2.500 ± 0.014 µg/mL | Nickel, Ni | 2.500 ± 0.014 µg/mL |
| Potassium, K | 250.0 ± 1.2 µg/mL | Selenium, Se | 4.002 ± 0.024 µg/mL |
| Silver, Ag | 2.501 ± 0.017 µg/mL | Sodium, Na | 250.0 ± 1.2 µg/mL |
| Thallium, Tl | 2.500 ± 0.017 µg/mL | Thorium, Th | 2.499 ± 0.013 µg/mL |
| Uranium, U | 2.501 ± 0.015 µg/mL | Vanadium, V | 2.500 ± 0.014 µg/mL |
| Zinc, Zn | 2.500 ± 0.014 µg/mL | | |

Density: 1.042 g/mL (measured at 20 ± 4 °C)

Assay Information:

| ANALYTE | METHOD | NIST SRM# | SRM LOT# |
|---------|-------------|-----------|--------------|
| Ag | ICP Assay | 3151 | 160729 |
| Ag | Volhard | 999c | 999c |
| Ag | Calculated | | See Sec. 4.2 |
| Al | ICP Assay | 3101a | 140903 |
| Al | EDTA | 928 | 928 |
| As | ICP Assay | 3103a | 100818 |
| Ba | ICP Assay | 3104a | 140909 |
| Ba | Calculated | | See Sec. 4.2 |
| Ba | Gravimetric | | See Sec. 4.2 |
| Be | ICP Assay | 3105a | 090514 |
| Be | Calculated | | See Sec. 4.2 |
| Ca | ICP Assay | 3109a | 130213 |
| Ca | EDTA | 928 | 928 |
| Cd | ICP Assay | 3108 | 130116 |
| Cd | EDTA | 928 | 928 |
| Cd | Calculated | | See Sec. 4.2 |
| Co | ICP Assay | 3113 | 190630 |
| Co | EDTA | 928 | 928 |
| Co | Calculated | | See Sec. 4.2 |
| Cr | ICP Assay | 3112a | 170630 |
| Cr | Calculated | | See Sec. 4.2 |
| Cu | ICP Assay | 3114 | 121207 |
| Cu | EDTA | 928 | 928 |
| Cu | Calculated | | See Sec. 4.2 |
| Fe | ICP Assay | 3126a | 140812 |
| Fe | EDTA | 928 | 928 |
| K | ICP Assay | 3141a | 140813 |
| K | Gravimetric | | See Sec. 4.2 |
| Mg | ICP Assay | 3131a | 140110 |
| Mg | EDTA | 928 | 928 |
| Mn | ICP Assay | 3132 | 050429 |
| Mn | EDTA | 928 | 928 |
| Mn | Calculated | | See Sec. 4.2 |
| Na | ICP Assay | 3152a | 120715 |
| Na | Gravimetric | | See Sec. 4.2 |
| Ni | ICP Assay | 3136 | 120619 |
| Ni | EDTA | 928 | 928 |
| Ni | Calculated | | See Sec. 4.2 |
| Pb | ICP Assay | 3128 | 101026 |
| Pb | EDTA | 928 | 928 |
| Pb | Calculated | | See Sec. 4.2 |
| Se | ICP Assay | 3149 | 100901 |
| Se | Calculated | | See Sec. 4.2 |
| Th | EDTA | 928 | 928 |
| Th | Calculated | | See Sec. 4.2 |
| Tl | ICP Assay | 3158 | 151215 |
| Tl | Calculated | | See Sec. 4.2 |
| U | ICP Assay | 3164 | 080521 |
| U | Calculated | | See Sec. 4.2 |

| | | | |
|----|------------|-------|--------------|
| V | ICP Assay | 3165 | 160906 |
| V | EDTA | 928 | 928 |
| Zn | ICP Assay | 3168a | 120629 |
| Zn | EDTA | 928 | 928 |
| Zn | Calculated | | See Sec. 4.2 |

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{\text{CRM/RM}}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{\text{CRM/RM}} = \sum(w_i) X_i$$

X_i = mean of Assay Method i with standard uncertainty $u_{\text{char } i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{\text{char } i}^2) / (\sum(1/u_{\text{char } j}^2))$$

$$\text{CRM/RM Expanded Uncertainty } (\pm) = U_{\text{CRM/RM}} = k (u_{\text{char}}^2 + u_{\text{bb}}^2 + u_{\text{Its}}^2 + u_{\text{ts}}^2)^{1/2}$$

k = coverage factor = 2

$u_{\text{char}} = [\sum(w_i)^2 (u_{\text{char } i}^2)]^{1/2}$ where $u_{\text{char } i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{\text{CRM/RM}}$, where one method of characterization is used is the mean of individual results:

$$X_{\text{CRM/RM}} = (X_a) (u_{\text{char } a})$$

X_a = mean of Assay Method A with

$u_{\text{char } a}$ = the standard uncertainty of characterization Method A

$$\text{CRM/RM Expanded Uncertainty } (\pm) = U_{\text{CRM/RM}} = k (u_{\text{char } a}^2 + u_{\text{bb}}^2 + u_{\text{Its}}^2 + u_{\text{ts}}^2)^{1/2}$$

k = coverage factor = 2

$u_{\text{char } a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Certified Abundance:

IV's Certified Abundance

| <u>Isotope</u> | <u>Atom %</u> |
|----------------|---------------|
| Uranium 238U | 99.8 ± 0.1 |
| Uranium 235U | 0.19 ± 0.05 |

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

Note: This solution contains Silver (Ag), please refer to our Sample Preparation Guide for more information.

<https://www.inorganicventures.com/sample-preparation-guide/samples-containing-silver>

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

June 06, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **June 06, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

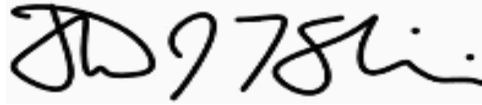
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code: Multi Analyte Custom Grade Solution
 Catalog Number: AR-6020ICS-0A10
 Lot Number: T2-MEB719898
 Matrix: 1.4% (v/v) HNO3
 Value / Analyte(s):
 1 000 µg/mL ea:
 Chloride,
 200 µg/mL ea:
 Carbon,
 100 µg/mL ea:
 Calcium, Aluminum,
 Iron, Potassium,
 Magnesium, Sodium,
 Phosphorus, Sulfur,
 2 µg/mL ea:
 Titanium, Molybdenum

3.0 CERTIFIED VALUES AND UNCERTAINTIES

| ANALYTE | CERTIFIED VALUE | ANALYTE | CERTIFIED VALUE |
|----------------|---------------------|---------------|---------------------|
| Aluminum, Al | 100.0 ± 0.4 µg/mL | Calcium, Ca | 100.0 ± 0.5 µg/mL |
| Carbon, C | 200.1 ± 0.5 µg/mL | Chloride, Cl | 1 000 ± 5 µg/mL |
| Iron, Fe | 100.0 ± 0.5 µg/mL | Magnesium, Mg | 100.0 ± 0.5 µg/mL |
| Molybdenum, Mo | 2.001 ± 0.014 µg/mL | Phosphorus, P | 100.0 ± 0.6 µg/mL |
| Potassium, K | 100.0 ± 0.5 µg/mL | Sodium, Na | 100.0 ± 0.5 µg/mL |
| Sulfur, S | 100.0 ± 0.5 µg/mL | Titanium, Ti | 2.001 ± 0.015 µg/mL |

Density: 1.009 g/mL (measured at 20 ± 4 °C)

Assay Information:

| ANALYTE | METHOD | NIST SRM# | SRM LOT# |
|---------|-------------|-------------------|--------------|
| Al | ICP Assay | 3101a | 140903 |
| Al | EDTA | 928 | 928 |
| C | Acidimetric | 84L | 84L |
| Ca | ICP Assay | 3109a | 130213 |
| Ca | EDTA | 928 | 928 |
| Cl | Acidimetric | 84L | 84L |
| Fe | ICP Assay | 3126a | 140812 |
| Fe | EDTA | 928 | 928 |
| K | ICP Assay | 3141a | 140813 |
| K | Gravimetric | | See Sec. 4.2 |
| Mg | ICP Assay | 3131a | 140110 |
| Mg | EDTA | 928 | 928 |
| Mo | ICP Assay | 3134 | 130418 |
| Na | ICP Assay | 3152a | 120715 |
| Na | Gravimetric | | See Sec. 4.2 |
| P | ICP Assay | 3139a | 060717 |
| P | Acidimetric | 84L | 84L |
| S | Acidimetric | 84L | 84L |
| S | ICP Assay | traceable to 3154 | P2-S680745 |
| Ti | ICP Assay | 3162a | 130925 |

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{\text{CRM/RM}}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{\text{CRM/RM}} = \sum(w_i) (X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{\text{char } i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{\text{char } i}^2) / (\sum(1/u_{\text{char } i}^2))$$

$$\text{CRM/RM Expanded Uncertainty } (\pm) = U_{\text{CRM/RM}} = k (u_{\text{char}}^2 + u_{\text{bb}}^2 + u_{\text{Its}}^2 + u_{\text{ts}}^2)^{1/2}$$

k = coverage factor = 2

$u_{\text{char}} = [\sum(w_i)^2 (u_{\text{char } i}^2)]^{1/2}$ where $u_{\text{char } i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{\text{CRM/RM}}$, where one method of characterization is used is the mean of individual results:

$$X_{\text{CRM/RM}} = (X_a) (u_{\text{char } a})$$

X_a = mean of Assay Method A with

$u_{\text{char } a}$ = the standard uncertainty of characterization Method A

$$\text{CRM/RM Expanded Uncertainty } (\pm) = U_{\text{CRM/RM}} = k (u_{\text{char } a}^2 + u_{\text{bb}}^2 + u_{\text{Its}}^2 + u_{\text{ts}}^2)^{1/2}$$

k = coverage factor = 2

$u_{\text{char } a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

June 07, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **June 07, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director





Form I
INORGANIC ANALYSIS DATA SHEET
EPA 6020B UCT-KED
Total Metals

| |
|--------------|
| LDW23-SC1164 |
|--------------|

Laboratory: Analytical Resources, LLC
 Client: Anchor QEA, LLC
 Project: AOC5 MR Phase 1
 Matrix: Sediment Laboratory ID: 23A0180-01 D SDG: 23A0180
 Sampled: 01/10/23 08:05 Prepared: 04/06/23 15:35 File ID: XDT_m2230407-080
 % Solids: 54.45 Preparation: SWN EPA 3050B Analyzed: 04/07/23 20:56
 Batch: BLD0055 Sequence: SLD0127 Initial/Final: 1.031 g Wet / 50 mL
 Instrument: ICPMS2 Calibration: GD00024

| CAS NO. | Analyte | Concentration (mg/kg dry) | Dilution Factor | MDL | MRL | Q |
|-----------|---------|---------------------------|-----------------|------|------|---|
| 7440-38-2 | Arsenic | 10.6 | 20 | 0.07 | 0.36 | |
| 7440-43-9 | Cadmium | 0.46 | 20 | 0.05 | 0.18 | |
| 7440-50-8 | Copper | 62.2 | 20 | 0.31 | 0.89 | |
| 7440-66-6 | Zinc | 116 | 20 | 5.2 | 10.7 | |



Form I
INORGANIC ANALYSIS DATA SHEET
EPA 6020B UCT-KED
Total Metals

| |
|-----------------|
| LDW23-SC1164-FD |
|-----------------|

Laboratory: Analytical Resources, LLC
 Client: Anchor QEA, LLC
 Project: AOC5 MR Phase 1
 Matrix: Sediment Laboratory ID: 23A0180-02 D SDG: 23A0180
 Sampled: 01/10/23 08:05 Prepared: 04/06/23 15:35 File ID: XDT_m2230407-081
 % Solids: 54.76 Preparation: SWN EPA 3050B Analyzed: 04/07/23 21:01
 Batch: BLD0055 Sequence: SLD0127 Initial/Final: 1.076 g Wet / 50 mL
 Instrument: ICPMS2 Calibration: GD00024

| CAS NO. | Analyte | Concentration (mg/kg dry) | Dilution Factor | MDL | MRL | Q |
|-----------|---------|---------------------------|-----------------|------|------|---|
| 7440-38-2 | Arsenic | 11.1 | 20 | 0.06 | 0.34 | |
| 7440-43-9 | Cadmium | 0.42 | 20 | 0.05 | 0.17 | |
| 7440-50-8 | Copper | 58.6 | 20 | 0.30 | 0.85 | |
| 7440-66-6 | Zinc | 113 | 20 | 5.0 | 10.2 | |



Form I
INORGANIC ANALYSIS DATA SHEET
EPA 6020B UCT-KED
Total Metals

| |
|--------------|
| LDW23-SC1158 |
|--------------|

Laboratory: Analytical Resources, LLC
 Client: Anchor QEA, LLC
 Project: AOC5 MR Phase 1
 Matrix: Sediment Laboratory ID: 23A0180-03 D SDG: 23A0180
 Sampled: 01/10/23 08:33 Prepared: 04/06/23 15:35 File ID: XDT_m2230407-082
 % Solids: 54.78 Preparation: SWN EPA 3050B Analyzed: 04/07/23 21:06
 Batch: BLD0055 Sequence: SLD0127 Initial/Final: 1.024 g Wet / 50 mL
 Instrument: ICPMS2 Calibration: GD00024

| CAS NO. | Analyte | Concentration (mg/kg dry) | Dilution Factor | MDL | MRL | Q |
|-----------|---------|---------------------------|-----------------|------|------|---|
| 7440-38-2 | Arsenic | 10.7 | 20 | 0.07 | 0.36 | |
| 7440-43-9 | Cadmium | 0.33 | 20 | 0.05 | 0.18 | |
| 7440-50-8 | Copper | 53.1 | 20 | 0.31 | 0.89 | |
| 7440-66-6 | Zinc | 103 | 20 | 5.2 | 10.7 | |



Form I
INORGANIC ANALYSIS DATA SHEET
EPA 6020B UCT-KED
Total Metals

| |
|--------------|
| LDW23-SC1151 |
|--------------|

Laboratory: Analytical Resources, LLC
 Client: Anchor QEA, LLC
 Project: AOC5 MR Phase 1
 Matrix: Sediment Laboratory ID: 23A0180-04 D SDG: 23A0180
 Sampled: 01/10/23 09:07 Prepared: 04/06/23 15:35 File ID: XDT_m2230407-083
 % Solids: 55.59 Preparation: SWN EPA 3050B Analyzed: 04/07/23 21:10
 Batch: BLD0055 Sequence: SLD0127 Initial/Final: 1.095 g Wet / 50 mL
 Instrument: ICPMS2 Calibration: GD00024

| CAS NO. | Analyte | Concentration (mg/kg dry) | Dilution Factor | MDL | MRL | Q |
|-----------|---------|---------------------------|-----------------|------|------|---|
| 7440-38-2 | Arsenic | 8.90 | 20 | 0.06 | 0.33 | |
| 7440-43-9 | Cadmium | 0.37 | 20 | 0.05 | 0.16 | |
| 7440-50-8 | Copper | 51.5 | 20 | 0.29 | 0.82 | |
| 7440-66-6 | Zinc | 104 | 20 | 4.8 | 9.9 | |



Form I
METHOD BLANK DATA SHEET
EPA 6020B UCT-KED
Total Metals

| |
|--------------|
| Blank |
|--------------|

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Batch: BLD0055

Laboratory ID: BLD0055-BLK1

Prepared: 04/06/23 15:35

Matrix: Solid

Preparation: SWN EPA 3050B

Analyzed: 04/07/23 17:46

Sequence: SLD0127

Calibration: GD00024

Instrument: ICPMS2

| CAS NO. | Analyte | Concentration (mg/kg wet) | Dilution Factor | MDL | MRL | Q |
|-----------|-------------|---------------------------|-----------------|------|------|---|
| 7440-38-2 | Arsenic-75a | ND | 20 | 0.04 | 0.20 | U |
| 7440-43-9 | Cadmium-111 | ND | 20 | 0.03 | 0.10 | U |
| 7440-50-8 | Copper-63 | ND | 20 | 0.17 | 0.50 | U |
| 7440-66-6 | Zinc-66 | ND | 20 | 2.9 | 6.0 | U |



LCS / LCS DUPLICATE RECOVERY
EPA 6020B UCT-KED
Total Metals

| | | | |
|----------------|----------------------------------|----------------|------------------------|
| Laboratory: | <u>Analytical Resources, LLC</u> | SDG: | <u>23A0180</u> |
| Client: | <u>Anchor QEA, LLC</u> | Project: | <u>AOC5 MR Phase 1</u> |
| Matrix: | <u>Solid</u> | Analyzed: | <u>04/07/23 17:51</u> |
| Batch: | <u>BLD0055</u> | Laboratory ID: | <u>BLD0055-BS1</u> |
| Preparation: | <u>SWN EPA 3050B</u> | Sequence Name: | <u>LCS</u> |
| Initial/Final: | <u>1 g / 50 mL</u> | | |

| COMPOUND | SPIKE ADDED (mg/kg wet) | LCS CONCENTRATION (mg/kg wet) | Q | LCS % REC. # | QC LIMITS REC. |
|-------------|-------------------------|-------------------------------|---|--------------|----------------|
| Arsenic-75a | 25.0 | 24.7 | | 98.6 | 80 - 120 |
| Cadmium-111 | 25.0 | 24.4 | | 97.5 | 80 - 120 |
| Copper-63 | 25.0 | 25.9 | | 104 | 80 - 120 |
| Zinc-66 | 80.0 | 81.1 | | 101 | 80 - 120 |

* Indicates values outside of QC limits



INITIAL CALIBRATION DATA

EPA 6020B

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Calibration: GD00024

Instrument: ICPMS2

Calibration Date: 04/07/2023 14:00

| Compound | Level 01 | | Level 02 | | Level 03 | | Level 04 | | Level 05 | | Level 06 | |
|-------------|----------|-------|----------|---------|----------|----------|----------|----------|----------|----------|----------|----|
| | Conc | RF | Conc | RF | Conc | RF | Conc | RF | Conc | RF | Conc | RF |
| Silver-107 | 0.2 | 16310 | 10 | 15589.4 | 20 | 15081.25 | 50 | 14400.16 | 100 | 14033.47 | 0 | 0 |
| Chromium-52 | 0.5 | 52134 | 10 | 21521 | 20 | 19752.9 | 50 | 18456.64 | 100 | 18475.77 | 0 | 0 |
| Chromium-53 | 0.5 | 2536 | 10 | 2311.2 | 20 | 2169.55 | 50 | 2118.54 | 100 | 2108.75 | 0 | 0 |
| Lead-208 | 0.1 | 47640 | 10 | 47767.4 | 20 | 46615.15 | 50 | 45078.5 | 100 | 44753.11 | 0 | 0 |



INITIAL CALIBRATION DATA

EPA 6020B

Laboratory: Analytical Resources, LLC

Instrument: ICPMS2

Calibration: GD00024

Calibration Date: 4/7/2023

| COMPOUND | Mean RF | RF RSD | Linear COD | Quad COD | COD Limit | Q |
|-------------|----------|--------|------------|----------|-----------|---|
| Silver-107 | 12569.05 | 49.4 | 0.9997 | | 0.998 | |
| Chromium-52 | 21723.39 | 77.6 | 0.9999 | | 0.998 | |
| Chromium-53 | 1874.007 | 49.7 | 0.9999 | | 0.998 | |
| Lead-208 | 38642.36 | 49.1 | 0.9999 | | 0.998 | |



INITIAL CALIBRATION DATA
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Calibration: GD00024

Instrument: ICPMS2

Calibration Date: 04/07/2023 14:00

| Compound | Level 01 | | Level 02 | | Level 03 | | Level 04 | | Level 05 | | Level 06 | |
|-------------|----------|----------|----------|-------|----------|---------|----------|---------|----------|---------|----------|----|
| | Conc | RF | Conc | RF | Conc | RF | Conc | RF | Conc | RF | Conc | RF |
| Arsenic-75a | 0.2 | 255 | 10 | 242.1 | 20 | 235.1 | 50 | 222.9 | 100 | 216.58 | 0 | 0 |
| Cadmium-111 | 0.1 | 330 | 10 | 267.8 | 20 | 255.05 | 50 | 249.64 | 100 | 240.43 | 0 | 0 |
| Cadmium-114 | 0.1 | 660 | 10 | 662.4 | 20 | 637 | 50 | 616.14 | 100 | 590.73 | 0 | 0 |
| Copper-63 | 0.5 | 3814 | 10 | 3710 | 20 | 3554.4 | 50 | 3381.02 | 100 | 3282.01 | 0 | 0 |
| Copper-65 | 0.5 | 1812 | 10 | 1780 | 20 | 1773.15 | 50 | 1678.22 | 100 | 1618.2 | 0 | 0 |
| Zinc-66 | 6 | 471 | 10 | 482.3 | 20 | 460.05 | 50 | 430.06 | 100 | 414.84 | 0 | 0 |
| Zinc-67 | 6 | 70.33334 | 10 | 79.4 | 20 | 78.95 | 50 | 70.1 | 100 | 69.36 | 0 | 0 |



INITIAL CALIBRATION DATA
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Calibration: GD00024

Instrument: ICPMS2
Calibration Date: 4/7/2023

| COMPOUND | Mean RF | RF RSD | Linear COD | Quad COD | COD Limit | Q |
|-------------|----------|--------|------------|----------|-----------|---|
| Arsenic-75a | 195.28 | 49.5 | 0.9996 | | 0.998 | |
| Cadmium-111 | 223.82 | 51.0 | 0.9996 | | 0.998 | |
| Cadmium-114 | 527.7117 | 49.3 | 0.9994 | | 0.998 | |
| Copper-63 | 2956.905 | 49.4 | 0.9996 | | 0.998 | |
| Copper-65 | 1443.595 | 49.2 | 0.9994 | | 0.998 | |
| Zinc-66 | 376.375 | 49.4 | 0.9994 | | 0.998 | |
| Zinc-67 | 61.35722 | 49.5 | 0.9992 | | 0.998 | |



Analytical Resources,
Incorporated
Analytical Chemists and
Consultants

ICP/MS 02 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 81DN1050201

Analysis Date: 4/7/23 Analyst: SD Sequence: SLD0127 Cal: GD00024

All corrections made by analyst unless otherwise noted.

| Edit Label | Delete Data | ARI Sample ID | Prep Code | Dilution | Comments |
|------------|-------------|---------------|-----------|----------|---------------------------------|
| | | SEQ-CAL1 | L3725 | | |
| | | -CAL2 | L3295 | | |
| | | -CAL3 | L3296 | | |
| | | -CAL4 | L3297 | | |
| | | -CAL5 | L3722 | | |
| | | -CAL6 | L3298 | | |
| | | -IBU1 | - | | |
| | | -ICV1 | L3575 | | |
| | | -ICB1 | L3725 | | Ge st. noisy - %R & analytes OK |
| | | -CCV1 | L3722 | | |
| | | -CCB1 | L3725 | | |
| | | -CHI1 | L3295 | | |
| | | -IFA1 | L3578 | | Cr ⁵³⁺ ↑ |
| | | -IFB1 | L3579 | | ↓ |
| | | -HCV1 | L3671 | | |
| | | -HCV2 | L3672 | | |
| | | -IBL2 | | | |
| | | -IBL3 | | | |
| | | -CCV2 | | | |
| | | -CCB2 | | | |
| | | -CAU | | | |
| | | -CCV3 | | | In st. noisy - %R & analytes OK |
| | | ↓ -CCB3 | | | |
| | | BLD0180-BLK1 | REN | | |



Analysis Date: 4/7/23 Analyst: SD Sequence: — Cal: —

All corrections made by analyst unless otherwise noted.

| Edit Label | Delete Data | ARI Sample ID | Prep Code | Dilution | Comments |
|------------|-------------|---------------|-----------|----------|----------|
| | | BLD0180-BSI | PEN | | |
| | | 23D0087-01 | ↓ | 2 | |
| | | 23D0001-01 | ↓ | | |
| | | 23C0770-01 | ↓ | 20 | |
| | | 23C0539-01REI | PEN | 5 | |
| | | BLD0101-DUP3 | ↓ | ↓ | |
| | | ↓ -MS3 | ↓ | ↓ | Ba STL |
| | | ↓ -MSD3 | ↓ | ↓ | ↓ |
| | | SEQ-IBL4 | | | |
| | | ↓ -CCV4 | | | |
| | | ↓ -CCB4 | | | |
| | | BLD0055-BLK1 | SWN | 20 | |
| | | ↓ -BSI | ↓ | ↓ | |
| | | BLD0123-BLK1 | | | |
| | | ↓ -BSI | | | |
| | | 23A0179-01 | | | |
| | | BLD0055-DUPI | | | Pb PPD1 |
| | | ↓ -MS1 | | | Ag% P↓ |
| | | ↓ -MSD1 | | | ↓ |
| | | ↓ -PS1 | ↓ | ↓ | |
| | | SEQ-IBL5 | | | |
| | | ↓ -CCV5 | | | |
| | | ↓ -CCB5 | | | |
| | | 23A0158-14 | SWN | 20 | |



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ICP/MS 02 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 81DN1050201

Analysis Date: 4/7/23 Analyst: SD Sequence: — Cal: —

All corrections made by analyst unless otherwise noted.

| Edit Label | Delete Data | ARI Sample ID | Prep Code | Dilution | Comments |
|------------|-------------|---------------|-----------|----------|---------------------------------|
| | | 23A0158-15 | SWN | 20 | |
| | | ↓ -16 | | | |
| | | 23A0206-02 | | | |
| | | ↓ -01 | | | |
| | | BLDD123-DUP1 | | | |
| | | ↓ -MS1 | | | |
| | | ↓ -MSD1 | | | |
| | | ↓ -PS1 | | | |
| | | SEQ-IBL6 | | | |
| | | ↓ -CCV6 | | | |
| | | ↓ -CCB6 | | | |
| | | 23A0179-02 | SWN | 20 | |
| | | ↓ -03 | | | |
| | | ↓ -04 | | | |
| | | ↓ -05 | | | |
| | | ↓ -06 | | | |
| | | ↓ -07 | | | |
| | | ↓ -08 | | | |
| | | ↓ -09 | | | |
| | | ↓ -10 | | | |
| | | SEQ-IBL7 | | | |
| | | ↓ -CCV7 | | | |
| | | ↓ -CCB7 | | | Sc+Tb sl. noisy - %P&amlytes OK |
| | | 23A0179-11 | SWN | 20 | |



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ICP/MS 02 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 81DN1050201

Analysis Date: 4/17/23 Analyst: SD Sequence: — Cal: —

All corrections made by analyst unless otherwise noted.

| Edit Label | Delete Data | ARI Sample ID | Prep Code | Dilution | Comments | |
|------------|-------------|---------------|-----------|----------|----------|-------|
| | | 23A0179-12 | SWN | 20 | | |
| | | 23A0180-01 | ↓ | ↓ | | |
| | | ↓ -02 | ↓ | ↓ | | |
| | | ↓ -03 | ↓ | ↓ | | |
| | | ↓ -04 | ↓ | ↓ | | |
| | | 23A0206-03 | ↓ | ↓ | | |
| | | ↓ -04 | ↓ | ↓ | | |
| | | ↓ -05 | ↓ | ↓ | | |
| | | SEQ-IBL8 | | | | |
| | | ↓ -CCV8 | | | | |
| | | ↓ -CCB8 | | | | |
| | | 23A0206-06 | SWN | 20 | | |
| | | ↓ -07 | ↓ | ↓ | | |
| | | ↓ -08 | ↓ | ↓ | | |
| | | ↓ -09 | ↓ | ↓ | | |
| | | ↓ -10 | ↓ | ↓ | Zn↑ | No Zn |
| | | ↓ -11 | ↓ | ↓ | | |
| | | ↓ -12 | ↓ | ↓ | | |
| | | ↓ -13 | ↓ | ↓ | Cd noisy | No Cd |
| | | ↓ -14 | ↓ | ↓ | | |
| | | SEQ-IBL9 | | | | |
| | | ↓ -CCV9 | | | | |
| | | ↓ -CCB9 | | | | |
| | | 23A0158-05 | SWN | 50 | | |



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ICP/MS 02 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 81DN1050201

Analysis Date: 4/7/23 Analyst: SD Sequence: Cal:

All corrections made by analyst unless otherwise noted. SD 4/7/23

| Edit Label | Delete Data | ARI Sample ID | Prep Code | Dilution | Comments |
|------------|-------------|---------------|-----------|----------|-------------------------------|
| | | 23A0158-06 | SWN | 50 | |
| | | ↓ -07 | ↓ | ↓ | |
| | | ↓ -10 | ↓ | ↓ | |
| | | 23A0157-01 | | | |
| | | BLD0030-DUP2 | | | |
| | | ↓ -MS2 | ↓ | ↓ | |
| | | ↓ -MSDL | ↓ | ↓ | |
| | ✓ | ↓ -PS2 | ↓ | ↓ | Cr%P↓ - NOT NEEDED |
| | | SEQ-IBLA | | | |
| | | ↓ -CCVA | | | |
| | | ↓ -CCBA | | | |
| | ✓ | ↓ -CALI | | | |
| | | ↓ -CCVB | | | |
| | | ↓ -CCBB | | | |
| | | BLD0022-BLK3 | REN | | |
| | | ↓ -BS3 | ↓ | | |
| | | 23A0157-06 | SWN | 50 | |
| | | ↓ -07 | ↓ | ↓ | |
| | | ↓ -08 | ↓ | ↓ | |
| | | ↓ -10 | ↓ | ↓ | |
| | | ↓ -12 | ↓ | ↓ | |
| | | ↓ -13 | ↓ | ↓ | |
| | | 23C0644-01 | REN | 20 | In-1 noisy - %R & analytes OK |
| | | SEQ-IBLC | | | |



Analysis Date: 4/7/23 Analyst: SD Sequence: — Cal: —

All corrections made by analyst unless otherwise noted. 8D4/7/23

| Edit Label | Delete Data | ARI Sample ID | Prep Code | Dilution | Comments |
|------------|-------------|---------------|-------------------|----------|----------------|
| | | SEQ-CCVC | | | |
| | | ↓ -CCBC | | | |
| | | 23C0591-01RE1 | REN | 50 | |
| | | 23C0527-06 | REP HN | 2 | SCF-NOT NEEDED |
| | | ↓ -02 | ↓ | | ↓ |
| | | ↓ -04 | | | |
| | | ↓ -08 | | | |
| | | ↓ -10 | | | |
| | | ↓ -12 | | | |
| | | BLD0094-DUP1 | | | |
| | | ↓ -MS1 | ↓ | | ↓ |
| | | SEQ-IBLD | | | |
| | | ↓ -CCVD | | | |
| | | ↓ -CCBD | | | |
| | | 23C0530-01 | REN | 2 | |
| | | ↓ -02 | ↓ | ↓ | |
| | | 23C0513-01 | | 5 | |
| | | BLD0022-DUP3 | | ↓ | |
| | | ↓ -MS3 | | ↓ | |
| | | 23C0539-01 | | | Ba↑ Ba NR |
| | | BLD0101-DUP2 | | | ↓ ↓ |
| | | ↓ -MS2 | | | |
| | | ↓ -MSD2 | ↓ | | ↓ ↓ |
| | | SEQ-IBLE | | | |



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ICP/MS 02 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 81DN1050201

Analysis Date: 4/7/23 Analyst: SD Sequence: Cal:

All corrections made by analyst unless otherwise noted.

| Edit Label | Delete Data | ARI Sample ID | Prep Code | Dilution | Comments |
|------------|-------------|---------------|-----------|----------|----------------|
| | | SEQ-CCVE | | | |
| | | ↓ -CCBE | | | |
| | | 23C0591-04 | REN | 5 | |
| | | ↓ -02 | ↓ | 2 | |
| | | ↓ -05 | ↓ | ↓ | |
| | | ↓ -06 | ↓ | ↓ | |
| | | ↓ -07 | ↓ | ↓ | |
| | | ↓ -08 | ↓ | ↓ | |
| | | ↓ -03RE1 | ↓ | 10 | |
| | | ↓ -03 | ↓ | 2 | |
| | | ↓ -01 | ↓ | | Mn↑ MnNR |
| | | SEQ-TBLE | | | |
| | | ↓ -CCVF | | | |
| | | ↓ -CCBF | | | |
| | ✓ | ↓ -CALI | | | |
| | | ↓ -CCVG | | | |
| | | ↓ -CCBG | | | |
| | | 23C0540-05 | REN | | SC↑-NOT NEEDED |
| | | ↓ -04RE1 | ↓ | 10 | |
| | | ↓ -02RE1 | ↓ | 100 | |
| | | ↓ -19RE1 | ↓ | ↓ | |
| | | ↓ -03RE1 | ↓ | ↓ | |
| | | BLDD0102-DUP3 | | | |
| | | ↓ -MS3 | ↓ | ↓ | NI STL |



ICP/MS 02 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 81DN1050201

Analysis Date: 4/7/23 Analyst: SD Sequence: — Cal: —

All corrections made by analyst unless otherwise noted.

| Edit Label | Delete Data | ARI Sample ID | Prep Code | Dilution | Comments |
|------------|-------------|---------------|-----------|----------|-----------------------------|
| | | BLD0102-MSD3 | REN | 100 | Ni STL |
| | | 23C0540-04 | ↓ | | SCP-NOT NEEDED Ni↑ Ni NR |
| | | SEQ-IBLH | | | |
| | | ↓ -CCVH | | | |
| | | ↓ -CCBH | | | |
| | | 23C0512-07 | REN | | |
| | | ↓ -08 | ↓ | | |
| | | ↓ -09 | | | SCP-NOT NEEDED |
| | | ↓ -10 | | | |
| | | ↓ -11 | | | |
| | | 23C0539-07 | | | |
| | | ↓ -03 | | | |
| | | ↓ -04 | | | |
| | | ↓ -05 | | | |
| | | SEQ-IBLT | | | |
| | | ↓ -CCVI | | | |
| | | ↓ -CCBT | | | |
| | | 23C0544-01 | REN | 10 | |
| | | ↓ -02 | ↓ | ↓ | |
| | | ↓ -03 | | | |
| | | 23C0540-02 | | | Ni↑ Ni NR |
| | | ↓ -19 | | | ↓ ↓ |
| | | ↓ -03 | | | Ni↑ Ni NR |
| | | BLD0102-DUPZ | ↓ | ↓ | ↓ ↓ |



ICP/MS 02 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 81DN1050201

Analysis Date: 4/7/23 Analyst: SD Sequence: — Cal: —

All corrections made by analyst unless otherwise noted.

| Edit Label | Delete Data | ARI Sample ID | Prep Code | Dilution | Comments |
|------------|-------------|---------------|-----------|----------|-----------|
| | | BDD0102-MSZ | REN | 10 | NI↑ NI NR |
| | | ↓ -MSDZ | ↓ | ↓ | ↓ |
| | | SEQ-IBLT | | | |
| | | ↓ -CCWT | | | |
| | | ↓ -CCBT | | | |
| | | RINSE/DT | | | |
| 4/7/23 | | | | | |

Performance Check Report

Sample ID: STD Performance Check

Sample Date/Time: Friday, April 07, 2023 12:51:06

Sample Description:

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\STD Performance Check.mth

Dataset File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\DataSet\Default\STD Performance Check.5627

MassCal File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Conditions File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Dual Detector Mode: Pulse

Acq. Dead Time (ns): 35

Current Dead Time (ns): 35

Torch Z position (mm): 0.00

Summary

| Analyte | Mass | Meas. Intens. | Mean | Net Intens. | Mean | Net Intens. | SD | Net Intens. | RSD | Mode | |
|---------|-------|---------------|---------|-------------|-----------|-------------|---------|-------------|-----|----------|----------|
| Be | 9.0 | | 8480.7 | | 8480.717 | | 148.670 | | 1.8 | Standard | |
| In | 114.9 | | 64753.0 | | 64753.034 | | 657.403 | | 1.0 | Standard | |
| U | 238.1 | | 53723.2 | | 53723.184 | | 918.660 | | 1.7 | Standard | |
| [| CeO | 155.9 | | 1106.4 | | 0.016 | | 0.000 | | 2.7 | Standard |
| > | Ce | 139.9 | | 67268.8 | | 67268.821 | | 723.369 | | 1.1 | Standard |
| [| Ce++ | 70.0 | | 1518.9 | | 0.023 | | 0.000 | | 1.9 | Standard |
| | Bkgd | 220.0 | | 0.1 | | 0.100 | | 0.091 | | 91.3 | Standard |

Current Conditions File Data

| Current Value | Description |
|---------------|-------------------------------------|
| 1.04 | Nebulizer Gas Flow STD/KED [NEB] |
| 1.20 | Auxiliary Gas Flow |
| 18.00 | Plasma Gas Flow |
| -11.25 | Deflector Voltage |
| 1600.00 | ICP RF Power |
| -1712.00 | Analog Stage Voltage |
| 1650.00 | Pulse Stage Voltage |
| 0.00 | Quadrupole Rod Offset STD [QRO] |
| -8.00 | Cell Rod Offset STD [CRO] |
| 12.00 | Discriminator Threshold |
| -4.00 | Cell Entrance/Exit Voltage STD |
| 0.00 | RPa |
| 0.25 | RPq |
| 1.04 | DRC Mode NEB |
| -10.00 | DRC Mode QRO |
| -3.00 | DRC Mode CRO |
| -7.00 | DRC Mode Cell Entrance/Exit Voltage |
| 0.60 | Cell Gas A |
| 0.00 | Cell Gas B |
| 250.00 | Axial Field Voltage |
| -16.50 | KED Mode CRO |
| -12.00 | KED Mode QRO |
| -4.00 | KED Mode Cell Entrance Voltage |
| -39.00 | KED Mode Cell Exit Voltage |
| 0.00 | KED Cell Gas A |
| 5.00 | KED Cell Gas B |
| 0.00 | KED RPa |
| 0.25 | KED RPq |
| 475.00 | KED Mode Axial Field Voltage |

Sample ID: STD Performance Check

Report Date/Time: Friday, April 07, 2023 12:53:10

Page 1

SmartTune Wizard - Summary

Optimization Summary

SmartTune file: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\wizard\SmartTune\ARIdaily_UCT.swz

Start Time: 4/7/2023 12:50:55 PM

End Time: 4/7/2023 12:59:45 PM

STD Performance Check - [Passed] Optimum value(s): N/A

Obtained Intensity (Be 9): 8480.72

Obtained Intensity (In 115): 64753.03

Obtained Intensity (U 238): 53723.18

Obtained Intensity (Bkgd 220): 0.10

Obtained Formula (Ce++ 70 / Ce 140): 0.023 (=1518.95 / 67268.82)

Obtained Formula (CeO 156 / Ce 140): 0.016 (=1106.44 / 67268.82)

Obtained RSD (Be 9): 0.0175

Obtained RSD (In 115): 0.0102

Obtained RSD (U 238): 0.0171

Torch Alignment - [Passed]

| Vertical | Horizontal | Intensity |
|----------|------------|-----------|
| 0.66 mm | 0.43 mm | 69237.38 |

Nebulizer Gas Flow STD/KED [NEB] - [Passed] Optimum value(s): 1.04

Obtained Intensity (In 115): 66297.48

Obtained Formula (CeO 156 / Ce 140): 0.0209 (=1277.06 / 61240.99)

Mass Calibration and Resolution - [Passed] Optimum value(s): N/A

Target/Obtained mass (7.016/7.025), Target/Obtained resolution (0.7/0.699)

Target/Obtained mass (23.985/23.975), Target/Obtained resolution (0.7/0.689)

Target/Obtained mass (114.904/114.875), Target/Obtained resolution (0.7/0.705)

Target/Obtained mass (238.05/238.075), Target/Obtained resolution (0.7/0.711)

QID STD/DRC - Optimum value(s): Correlation Coefficient = 0.988; Intercept = -11.87

KED Mode QID - Optimum value(s): Correlation Coefficient = 0.997; Intercept = -12.77

SmartTune Wizard - Details

Optimization Details

SmartTune file: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\wizard\SmartTune\ARIdaily_UCT.swz

Optimization Status

Start Time: 4/7/2023 12:50:55 PM

STD Performance Check

Optimization Settings:

Method: STD Performance Check.mth.
Intensity Criterion: Be 9 > 2000
Intensity Criterion: In 115 > 40000
Intensity Criterion: U 238 > 30000
Intensity Criterion: Bkgd 220 <= 1
Formula Criterion: Ce++ 70 / Ce 140 <= 0.03
Formula Criterion: CeO 156 / Ce 140 <= 0.025
RSD Criterion: Be 9.0122 < 0.05
RSD Criterion: In 114.904 < 0.05
RSD Criterion: U 238.05 < 0.05

Optimization Results:

Initial Try

Obtained Intensity (Be 9): 8480.72
Obtained Intensity (In 115): 64753.03
Obtained Intensity (U 238): 53723.18
Obtained Intensity (Bkgd 220): 0.10
Obtained Formula (Ce++ 70 / Ce 140): 0.023 (=1518.95 / 67268.82)
Obtained Formula (CeO 156 / Ce 140): 0.016 (=1106.44 / 67268.82)
Obtained RSD (Be 9): 0.0175
Obtained RSD (In 115): 0.0102
Obtained RSD (U 238): 0.0171

[Passed] Optimum value(s): N/A

Torch Alignment

Optimization Settings:

Method: Torch Alignment.mth.
Intensity Criterion: In 115 Maximum

Optimization Results:

| | Vertical | Horizontal | Intensity |
|----------|----------|------------|-----------|
| [Passed] | 0.66 mm | 0.43 mm | 69237.38 |

Nebulizer Gas Flow STD/KED [NEB]

Optimization Settings:

Method: Optimize.mth.
Initial Try - Start/End/Step: 1.02/1.06/0.01.
Intensity Criterion: In 115 Maximum
Formula Criterion: CeO 156 / Ce 140 <= 0.025

Optimization Results:

Initial Try

Obtained Intensity (In 115): 66297.48
Obtained Formula (CeO 156 / Ce 140): 0.0209 (=1277.06 / 61240.99)

[Passed] Optimum value(s): 1.04

Mass Calibration and Resolution

Optimization Settings:

Method: Tuning.mth.
MassCal File: Default.tun
Iterations: 6
Target accuracy (+/- amu): 0.05 for Mass Cal. and 0.03 for Resolution
Peak height (%) for Res. Opt.: 10

Optimization Results:

Initial Try

Target/Obtained mass (7.016/7.025), Target/Obtained resolution (0.7/0.699)
Target/Obtained mass (23.985/23.975), Target/Obtained resolution (0.7/0.689)
Target/Obtained mass (114.904/114.875), Target/Obtained resolution (0.7/0.705)
Target/Obtained mass (238.05/238.075), Target/Obtained resolution (0.7/0.711)

[Passed] Optimum value(s): N/A

QID STD/DRC

Optimization Settings:

Method: QID Calibration.mth.
Initial Try - Start/End/Step: -20/0/0.5.

Optimization Results:

Initial Try

Optimum value(s): Correlation Coefficient = 0.988; Intercept = -11.87

| Analyte | Mass | Points | DAC | MaxIntensity |
|---------|------|--------|-------|--------------|
| Li | 7 | 41 | -12.5 | 39398.3 |
| Mg | 24 | 41 | -13 | 44685.8 |
| In | 115 | 41 | -10.5 | 69171.1 |
| Ce | 140 | 41 | -8.5 | 68258.7 |
| Pb | 208 | 41 | -7.5 | 33543.3 |
| U | 238 | 41 | -7.5 | 56338.9 |

KED Mode QID

Optimization Settings:

Method: QID Calibration.mth.
Initial Try - Start/End/Step: -20/0/0.5.

Optimization Results:

Initial Try

Optimum value(s): Correlation Coefficient = 0.997; Intercept = -12.77

| Analyte | Mass | Points | DAC | MaxIntensity |
|---------|------|--------|-------|--------------|
| Li | 7 | 41 | -13 | 27069.6 |
| Mg | 24 | 41 | -13 | 27270 |
| In | 115 | 41 | -10.5 | 47117.6 |
| Ce | 140 | 41 | -9 | 54507.8 |
| Pb | 208 | 41 | -7 | 25971.6 |
| U | 238 | 41 | -6 | 41295.6 |

End Time: 4/7/2023 12:59:45 PM

SmartTune Wizard - Summary

Optimization Summary

SmartTune file: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\wizard\SmartTune\ARIdaily_UCT.swz

Start Time: 4/7/2023 12:59:52 PM

End Time: 4/7/2023 1:00:59 PM

QID STD/DRC - Optimum value(s): Correlation Coefficient = 0.997; Intercept = -11.92

SmartTune Wizard - Details

Optimization Details

SmartTune file: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\wizard\SmartTune\ARIdaily_UCT.swz

Optimization Status

Start Time: 4/7/2023 12:59:52 PM

QID STD/DRC

Optimization Settings:

Method: QID Calibration.mth.

Initial Try - Start/End/Step: -20/0/0.5.

Optimization Results:

Initial Try

Optimum value(s): Correlation Coefficient = 0.997; Intercept = -11.92

| Analyte | Mass | Points | DAC | MaxIntensity |
|---------|------|--------|-------|--------------|
| Li | 7 | 41 | -12.5 | 39474.5 |
| Mg | 24 | 41 | -13 | 45701 |
| In | 115 | 41 | -9.5 | 69343.9 |
| Ce | 140 | 41 | -8 | 67643.8 |
| Pb | 208 | 41 | -7.5 | 33178.5 |
| U | 238 | 41 | -7.5 | 57411.1 |

End Time: 4/7/2023 1:00:59 PM

Performance Check Report

Sample ID: STD Performance Check

Sample Date/Time: Friday, April 07, 2023 13:01:07

Sample Description:

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\STD Performance Check.mth

Dataset File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\DataSet\Default\STD Performance Check.5634

MassCal File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Conditions File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Dual Detector Mode: Pulse

Acq. Dead Time (ns): 35

Current Dead Time (ns): 35

Torch Z position (mm): 0.00

Summary

| Analyte | Mass | Meas. Intens. | Mean | Net Intens. | Mean | Net Intens. | SD | Net Intens. | RSD | Mode | |
|---------|-------|---------------|---------|-------------|-----------|-------------|---------|-------------|-----|----------|----------|
| Be | 9.0 | | 9166.8 | | 9166.807 | | 83.229 | | 0.9 | Standard | |
| In | 114.9 | | 67155.9 | | 67155.884 | | 495.955 | | 0.7 | Standard | |
| U | 238.1 | | 57143.0 | | 57142.998 | | 482.159 | | 0.8 | Standard | |
| [| CeO | 155.9 | | 1363.4 | | 0.020 | | 0.001 | | 4.1 | Standard |
| > | Ce | 139.9 | | 68912.0 | | 68911.954 | | 620.844 | | 0.9 | Standard |
| [| Ce++ | 70.0 | | 1683.9 | | 0.024 | | 0.001 | | 2.5 | Standard |
| | Bkgd | 220.0 | | 0.1 | | 0.067 | | 0.091 | | 136.9 | Standard |

Current Conditions File Data

| Current Value | Description |
|---------------|-------------------------------------|
| 1.04 | Nebulizer Gas Flow STD/KED [NEB] |
| 1.20 | Auxiliary Gas Flow |
| 18.00 | Plasma Gas Flow |
| -11.25 | Deflector Voltage |
| 1600.00 | ICP RF Power |
| -1712.00 | Analog Stage Voltage |
| 1650.00 | Pulse Stage Voltage |
| 0.00 | Quadrupole Rod Offset STD [QRO] |
| -8.00 | Cell Rod Offset STD [CRO] |
| 12.00 | Discriminator Threshold |
| -4.00 | Cell Entrance/Exit Voltage STD |
| 0.00 | RPa |
| 0.25 | RPq |
| 1.04 | DRC Mode NEB |
| -10.00 | DRC Mode QRO |
| -3.00 | DRC Mode CRO |
| -7.00 | DRC Mode Cell Entrance/Exit Voltage |
| 0.60 | Cell Gas A |
| 0.00 | Cell Gas B |
| 250.00 | Axial Field Voltage |
| -16.50 | KED Mode CRO |
| -12.00 | KED Mode QRO |
| -4.00 | KED Mode Cell Entrance Voltage |
| -39.00 | KED Mode Cell Exit Voltage |
| 0.00 | KED Cell Gas A |
| 5.00 | KED Cell Gas B |
| 0.00 | KED RPa |
| 0.25 | KED RPq |
| 475.00 | KED Mode Axial Field Voltage |

Sample ID: STD Performance Check

Report Date/Time: Friday, April 07, 2023 13:03:11

Page 1

SmartTune Wizard - Summary

Optimization Summary

SmartTune file: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\wizard\SmartTune\ARIdaily_UCT.swz

Start Time: 4/7/2023 1:01:05 PM

End Time: 4/7/2023 1:03:11 PM

STD Performance Check - [Passed] Optimum value(s): N/A

Obtained Intensity (Be 9): 9166.81

Obtained Intensity (In 115): 67155.88

Obtained Intensity (U 238): 57143.00

Obtained Intensity (Bkgd 220): 0.07

Obtained Formula (Ce++ 70 / Ce 140): 0.024 (=1683.90 / 68911.95)

Obtained Formula (CeO 156 / Ce 140): 0.020 (=1363.40 / 68911.95)

Obtained RSD (Be 9): 0.0091

Obtained RSD (In 115): 0.0074

Obtained RSD (U 238): 0.0084

SmartTune Wizard - Details

Optimization Details

SmartTune file: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\wizard\SmartTune\ARIdaily_UCT.swz

Optimization Status

Start Time: 4/7/2023 1:01:05 PM

STD Performance Check

Optimization Settings:

Method: STD Performance Check.mth.
Intensity Criterion: Be 9 > 2000
Intensity Criterion: In 115 > 40000
Intensity Criterion: U 238 > 30000
Intensity Criterion: Bkgd 220 <= 1
Formula Criterion: Ce++ 70 / Ce 140 <= 0.03
Formula Criterion: CeO 156 / Ce 140 <= 0.025
RSD Criterion: Be 9.0122 < 0.05
RSD Criterion: In 114.904 < 0.05
RSD Criterion: U 238.05 < 0.05

Optimization Results:

Initial Try

Obtained Intensity (Be 9): 9166.81
Obtained Intensity (In 115): 67155.88
Obtained Intensity (U 238): 57143.00
Obtained Intensity (Bkgd 220): 0.07
Obtained Formula (Ce++ 70 / Ce 140): 0.024 (=1683.90 / 68911.95)
Obtained Formula (CeO 156 / Ce 140): 0.020 (=1363.40 / 68911.95)
Obtained RSD (Be 9): 0.0091
Obtained RSD (In 115): 0.0074
Obtained RSD (U 238): 0.0084

[Passed] Optimum value(s): N/A

End Time: 4/7/2023 1:03:11 PM

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, April 07, 2023 14:00:57

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File:

| Analyte Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|--------------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | ug/L | | | | 29859 | 0 | Standard |
| Cl | 37 | ug/L | | | | 4319739 | 0 | Standard |
| [> Sc | 45 | ug/L | | | | 534549 | 1 | Standard |
| Cr | 52 | ug/L | | | | 16833 | 1 | Standard |
| Cr | 53 | ug/L | | | | 189 | 4 | Standard |
| Mn | 55 | ug/L | | | | 1126 | 0 | Standard |
| [> Ge | 72 | ug/L | | | | 30905 | 2 | KED |
| Ni | 60 | ug/L | | | | 128 | 10 | KED |
| Ni | 62 | ug/L | | | | 22 | 28 | KED |
| Cu | 63 | ug/L | | | | 58 | 26 | KED |
| Cu | 65 | ug/L | | | | 30 | 12 | KED |
| Zn | 66 | ug/L | | | | 22 | 17 | KED |
| Zn | 67 | ug/L | | | | 4 | 65 | KED |
| As | 75 | ug/L | | | | 6 | 4 | KED |
| Se | 78 | ug/L | | | | 18 | 12 | KED |
| Y | 89 | ug/L | | | | 304032 | 2 | Standard |
| Kr | 83 | ug/L | | | | 53 | 12 | Standard |
| [> In-1 | 115 | ug/L | | | | 8638 | 3 | KED |
| Cd | 111 | ug/L | | | | 2 | 88 | KED |
| Cd | 114 | ug/L | | | | 5 | 69 | KED |
| [> In | 115 | ug/L | | | | 433939 | 1 | Standard |
| Ag | 107 | ug/L | | | | 219 | 4 | Standard |
| Sb | 121 | ug/L | | | | 54 | 26 | Standard |
| Sb | 123 | ug/L | | | | 38 | 24 | Standard |
| Ba | 135 | ug/L | | | | 13 | 14 | Standard |
| Ba | 137 | ug/L | | | | 22 | 25 | Standard |
| [> Tb | 159 | ug/L | | | | 730524 | 0 | Standard |
| Tl | 205 | ug/L | | | | 951 | 3 | Standard |
| Pb | 208 | ug/L | | | | 86 | 13 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL2

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, April 07, 2023 14:05:47

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File:

| Analyte Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|--------------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C 13 | | ug/L | | | 29859 | 35617 | 3 | Standard |
| Cl 37 | | ug/L | | | 4319739 | 4462923 | 1 | Standard |
| [> Sc 45 | | ug/L | | | 534549 | 540241 | 1 | Standard |
| Cr 52 | 0.500 | ug/L | 0.030 | 5 | 16833 | 26067 | 1 | Standard |
| Cr 53 | 0.500 | ug/L | 0.009 | 1 | 189 | 1268 | 2 | Standard |
| Mn 55 | 0.500 | ug/L | 0.010 | 1 | 1126 | 14562 | 0 | Standard |
| [> Ge 72 | | ug/L | | | 30905 | 31278 | 1 | KED |
| Ni 60 | 0.500 | ug/L | 0.025 | 5 | 128 | 751 | 3 | KED |
| Ni 62 | 0.500 | ug/L | 0.062 | 12 | 22 | 120 | 9 | KED |
| Cu 63 | 0.500 | ug/L | 0.040 | 8 | 58 | 1907 | 8 | KED |
| Cu 65 | 0.500 | ug/L | 0.047 | 9 | 30 | 906 | 8 | KED |
| Zn 66 | 6.000 | ug/L | 0.149 | 2 | 22 | 2826 | 1 | KED |
| Zn 67 | 6.000 | ug/L | 0.570 | 9 | 4 | 422 | 8 | KED |
| As 75 | 0.200 | ug/L | 0.021 | 10 | 6 | 51 | 8 | KED |
| Se 78 | 0.500 | ug/L | 0.212 | 42 | 18 | 34 | 20 | KED |
| Y 89 | | ug/L | | | 304032 | 309057 | 2 | Standard |
| Kr 83 | | ug/L | | | 53 | 54 | 2 | Standard |
| [> In-1 115 | | ug/L | | | 8638 | 8360 | 4 | KED |
| Cd 111 | 0.100 | ug/L | 0.022 | 21 | 2 | 33 | 16 | KED |
| Cd 114 | 0.100 | ug/L | 0.027 | 26 | 5 | 66 | 22 | KED |
| [> In 115 | | ug/L | | | 433939 | 431866 | 0 | Standard |
| Ag 107 | 0.200 | ug/L | 0.003 | 1 | 219 | 3262 | 2 | Standard |
| Sb 121 | 0.200 | ug/L | 0.004 | 2 | 54 | 2285 | 1 | Standard |
| Sb 123 | 0.200 | ug/L | 0.006 | 2 | 38 | 1733 | 3 | Standard |
| Ba 135 | 0.500 | ug/L | 0.013 | 2 | 13 | 1915 | 2 | Standard |
| Ba 137 | 0.500 | ug/L | 0.006 | 1 | 22 | 3282 | 1 | Standard |
| [> Tb 159 | | ug/L | | | 730524 | 717017 | 0 | Standard |
| Tl 205 | 0.200 | ug/L | 0.002 | 1 | 951 | 7798 | 0 | Standard |
| Pb 208 | 0.100 | ug/L | 0.003 | 2 | 86 | 4764 | 2 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL3

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, April 07, 2023 14:10:38

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File:

| Analyte Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|--------------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C 13 | | ug/L | | | 29859 | 64012 | 0 | Standard |
| Cl 37 | | ug/L | | | 4319739 | 4362622 | 0 | Standard |
| [> Sc 45 | | ug/L | | | 534549 | 562925 | 0 | Standard |
| Cr 52 | 10.001 | ug/L | 0.325 | 3 | 16833 | 215210 | 2 | Standard |
| Cr 53 | 10.001 | ug/L | 0.184 | 1 | 189 | 23112 | 1 | Standard |
| Mn 55 | 9.999 | ug/L | 0.213 | 2 | 1126 | 272905 | 1 | Standard |
| [> Ge 72 | | ug/L | | | 30905 | 32013 | 0 | KED |
| Ni 60 | 10.000 | ug/L | 0.099 | 0 | 128 | 12630 | 0 | KED |
| Ni 62 | 10.000 | ug/L | 0.416 | 4 | 22 | 2047 | 4 | KED |
| Cu 63 | 9.999 | ug/L | 0.086 | 0 | 58 | 37100 | 1 | KED |
| Cu 65 | 10.000 | ug/L | 0.098 | 0 | 30 | 17800 | 1 | KED |
| Zn 66 | 10.008 | ug/L | 0.251 | 2 | 22 | 4823 | 2 | KED |
| Zn 67 | 10.260 | ug/L | 0.474 | 4 | 4 | 794 | 4 | KED |
| As 75 | 10.000 | ug/L | 0.124 | 1 | 6 | 2421 | 1 | KED |
| [Se 78 | 9.996 | ug/L | 0.192 | 1 | 18 | 287 | 1 | KED |
| Y 89 | | ug/L | | | 304032 | 317526 | 1 | Standard |
| Kr 83 | | ug/L | | | 53 | 45 | 12 | Standard |
| [> In-1 115 | | ug/L | | | 8638 | 8720 | 0 | KED |
| Cd 111 | 10.000 | ug/L | 0.247 | 2 | 2 | 2678 | 2 | KED |
| Cd 114 | 10.000 | ug/L | 0.121 | 1 | 5 | 6624 | 1 | KED |
| [> In 115 | | ug/L | | | 433939 | 443145 | 1 | Standard |
| Ag 107 | 10.000 | ug/L | 0.162 | 1 | 219 | 155894 | 0 | Standard |
| Sb 121 | 10.000 | ug/L | 0.175 | 1 | 54 | 119554 | 0 | Standard |
| Sb 123 | 10.000 | ug/L | 0.148 | 1 | 38 | 89634 | 0 | Standard |
| Ba 135 | 9.999 | ug/L | 0.240 | 2 | 13 | 38214 | 1 | Standard |
| [Ba 137 | 10.000 | ug/L | 0.115 | 1 | 22 | 68215 | 1 | Standard |
| [> Tb 159 | | ug/L | | | 730524 | 755356 | 0 | Standard |
| Tl 205 | 10.000 | ug/L | 0.190 | 1 | 951 | 364034 | 1 | Standard |
| [Pb 208 | 10.000 | ug/L | 0.034 | 0 | 86 | 477674 | 0 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL4

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, April 07, 2023 14:15:42

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File:

| Analyte Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|--------------|------------|--------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | ug/L | | | 29859 | 67136 | 1 | Standard |
| Cl | 37 | ug/L | | | 4319739 | 4417547 | 1 | Standard |
| [> Sc | 45 | ug/L | | | 534549 | 559321 | 0 | Standard |
| Cr | 52 | 19.842 | 0.213 | 1 | 16833 | 395058 | 1 | Standard |
| Cr | 53 | 19.785 | 0.063 | 0 | 189 | 43391 | 0 | Standard |
| Mn | 55 | 19.933 | 0.244 | 1 | 1126 | 532347 | 1 | Standard |
| [> Ge | 72 | | | | 30905 | 31773 | 1 | KED |
| Ni | 60 | 19.934 | 0.498 | 2 | 128 | 24532 | 1 | KED |
| Ni | 62 | 19.956 | 0.389 | 1 | 22 | 3996 | 2 | KED |
| Cu | 63 | 19.860 | 0.132 | 0 | 58 | 71088 | 2 | KED |
| Cu | 65 | 20.019 | 0.259 | 1 | 30 | 35463 | 0 | KED |
| Zn | 66 | 19.812 | 0.145 | 0 | 22 | 9201 | 1 | KED |
| Zn | 67 | 20.156 | 0.811 | 4 | 4 | 1579 | 2 | KED |
| As | 75 | 19.917 | 0.155 | 0 | 6 | 4702 | 0 | KED |
| Se | 78 | 20.004 | 0.526 | 2 | 18 | 552 | 3 | KED |
| Y | 89 | | | | 304032 | 318436 | 2 | Standard |
| Kr | 83 | | | | 53 | 66 | 20 | Standard |
| [> In-1 | 115 | | | | 8638 | 8670 | 1 | KED |
| Cd | 111 | 19.829 | 0.230 | 1 | 2 | 5101 | 0 | KED |
| Cd | 114 | 19.868 | 0.536 | 2 | 5 | 12740 | 1 | KED |
| [> In | 115 | | | | 433939 | 436330 | 1 | Standard |
| Ag | 107 | 19.931 | 0.018 | 0 | 219 | 301625 | 1 | Standard |
| Sb | 121 | 19.919 | 0.448 | 2 | 54 | 230711 | 1 | Standard |
| Sb | 123 | 19.930 | 0.078 | 0 | 38 | 173429 | 1 | Standard |
| Ba | 135 | 19.877 | 0.352 | 1 | 13 | 72989 | 0 | Standard |
| Ba | 137 | 19.870 | 0.108 | 0 | 22 | 130072 | 0 | Standard |
| [> Tb | 159 | | | | 730524 | 742527 | 1 | Standard |
| Tl | 205 | 19.963 | 0.204 | 1 | 951 | 708107 | 0 | Standard |
| Pb | 208 | 19.972 | 0.245 | 1 | 86 | 932303 | 0 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL5

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, April 07, 2023 14:20:56

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File:

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 29859 | 30200 | 1 | Standard |
| Cl | 37 | | ug/L | | | 4319739 | 4457519 | 2 | Standard |
| [> Sc | 45 | | ug/L | | | 534549 | 567055 | 0 | Standard |
| Cr | 52 | 49.459 | ug/L | 0.439 | 0 | 16833 | 922832 | 1 | Standard |
| Cr | 53 | 49.614 | ug/L | 1.037 | 2 | 189 | 105927 | 1 | Standard |
| Mn | 55 | 49.634 | ug/L | 0.306 | 0 | 1126 | 1294836 | 0 | Standard |
| [> Ge | 72 | | ug/L | | | 30905 | 31187 | 1 | KED |
| Ni | 60 | 49.584 | ug/L | 0.768 | 1 | 128 | 57336 | 1 | KED |
| Ni | 62 | 49.510 | ug/L | 0.364 | 0 | 22 | 9244 | 1 | KED |
| Cu | 63 | 49.681 | ug/L | 1.424 | 2 | 58 | 169051 | 2 | KED |
| Cu | 65 | 49.704 | ug/L | 0.196 | 0 | 30 | 83911 | 1 | KED |
| Zn | 66 | 49.490 | ug/L | 0.495 | 0 | 22 | 21503 | 1 | KED |
| Zn | 67 | 49.167 | ug/L | 1.184 | 2 | 4 | 3505 | 2 | KED |
| As | 75 | 49.678 | ug/L | 0.677 | 1 | 6 | 11145 | 0 | KED |
| Se | 78 | 49.597 | ug/L | 0.550 | 1 | 18 | 1266 | 1 | KED |
| Y | 89 | | ug/L | | | 304032 | 311796 | 1 | Standard |
| Kr | 83 | | ug/L | | | 53 | 69 | 23 | Standard |
| [> In-1 | 115 | | ug/L | | | 8638 | 8425 | 0 | KED |
| Cd | 111 | 49.990 | ug/L | 0.203 | 0 | 2 | 12482 | 0 | KED |
| Cd | 114 | 49.906 | ug/L | 0.519 | 1 | 5 | 30807 | 1 | KED |
| [> In | 115 | | ug/L | | | 433939 | 429730 | 0 | Standard |
| Ag | 107 | 49.716 | ug/L | 1.985 | 3 | 219 | 720008 | 3 | Standard |
| Sb | 121 | 49.636 | ug/L | 0.368 | 0 | 54 | 546326 | 0 | Standard |
| Sb | 123 | 49.793 | ug/L | 0.646 | 1 | 38 | 418006 | 0 | Standard |
| Ba | 135 | 49.931 | ug/L | 0.604 | 1 | 13 | 179343 | 0 | Standard |
| Ba | 137 | 49.861 | ug/L | 0.822 | 1 | 22 | 317019 | 1 | Standard |
| [> Tb | 159 | | ug/L | | | 730524 | 729522 | 3 | Standard |
| Tl | 205 | 49.846 | ug/L | 2.423 | 4 | 951 | 1707888 | 1 | Standard |
| Pb | 208 | 49.859 | ug/L | 1.273 | 2 | 86 | 2253925 | 0 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL6

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, April 07, 2023 14:27:50

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File:

| Analyte Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|--------------|------------|---------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | ug/L | | | 29859 | 51185 | 1 | Standard |
| Cl | 37 | ug/L | | | 4319739 | 4496501 | 1 | Standard |
| [> Sc | 45 | ug/L | | | 534549 | 555515 | 2 | Standard |
| Cr | 52 | 100.487 | 2.599 | 2 | 16833 | 1847577 | 0 | Standard |
| Cr | 53 | 100.217 | 2.012 | 2 | 189 | 210875 | 0 | Standard |
| Mn | 55 | 100.066 | 3.786 | 3 | 1126 | 2560267 | 1 | Standard |
| [> Ge | 72 | ug/L | | | 30905 | 29504 | 2 | KED |
| Ni | 60 | 100.780 | 2.186 | 2 | 128 | 113030 | 0 | KED |
| Ni | 62 | 101.066 | 1.407 | 1 | 22 | 18484 | 1 | KED |
| Cu | 63 | 100.450 | 1.914 | 1 | 58 | 328201 | 1 | KED |
| Cu | 65 | 100.315 | 2.637 | 2 | 30 | 161820 | 0 | KED |
| Zn | 66 | 100.231 | 2.113 | 2 | 22 | 41484 | 1 | KED |
| Zn | 67 | 100.657 | 1.920 | 1 | 4 | 6936 | 4 | KED |
| As | 75 | 100.474 | 1.466 | 1 | 6 | 21658 | 0 | KED |
| [Se | 78 | 100.479 | 1.476 | 1 | 18 | 2448 | 1 | KED |
| Y | 89 | ug/L | | | 304032 | 315624 | 2 | Standard |
| Kr | 83 | ug/L | | | 53 | 78 | 6 | Standard |
| [> In-1 | 115 | ug/L | | | 8638 | 8150 | 2 | KED |
| Cd | 111 | 99.901 | 1.886 | 1 | 2 | 24043 | 0 | KED |
| Cd | 114 | 99.759 | 2.192 | 2 | 5 | 59073 | 0 | KED |
| [> In | 115 | ug/L | | | 433939 | 422511 | 1 | Standard |
| Ag | 107 | 99.668 | 3.866 | 3 | 219 | 1403347 | 2 | Standard |
| Sb | 121 | 100.200 | 2.245 | 2 | 54 | 1091404 | 1 | Standard |
| Sb | 123 | 100.288 | 1.204 | 1 | 38 | 835711 | 0 | Standard |
| Ba | 135 | 100.004 | 0.926 | 0 | 13 | 353194 | 0 | Standard |
| [Ba | 137 | 100.085 | 2.045 | 2 | 22 | 627335 | 0 | Standard |
| [> Tb | 159 | ug/L | | | 730524 | 722656 | 0 | Standard |
| Tl | 205 | 100.343 | 1.401 | 1 | 951 | 3447378 | 1 | Standard |
| [Pb | 208 | 99.975 | 0.698 | 0 | 86 | 4475311 | 0 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL1

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, April 07, 2023 14:35:25

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File:

| Analyte Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|--------------|------------|--------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | ug/L | | | 29859 | 35213 | 4 | Standard |
| Cl | 37 | ug/L | | | 4319739 | 4395062 | 0 | Standard |
| [> Sc | 45 | ug/L | | | 534549 | 544449 | 2 | Standard |
| Cr | 52 | -0.002 | 0.037 | 1561 | 16833 | 17097 | 3 | Standard |
| Cr | 53 | -0.011 | 0.003 | 29 | 189 | 170 | 3 | Standard |
| Mn | 55 | -0.002 | 0.002 | 132 | 1126 | 1100 | 3 | Standard |
| [> Ge | 72 | ug/L | | | 30905 | 30530 | 0 | KED |
| Ni | 60 | 0.046 | 0.024 | 50 | 128 | 180 | 15 | KED |
| Ni | 62 | 0.049 | 0.082 | 168 | 22 | 31 | 48 | KED |
| Cu | 63 | 0.000 | 0.001 | 291 | 58 | 59 | 6 | KED |
| Cu | 65 | -0.000 | 0.005 | 2893 | 30 | 29 | 25 | KED |
| Zn | 66 | 0.005 | 0.007 | 133 | 22 | 24 | 12 | KED |
| Zn | 67 | 0.010 | 0.062 | 641 | 4 | 5 | 86 | KED |
| As | 75 | 0.011 | 0.014 | 129 | 6 | 8 | 37 | KED |
| Se | 78 | 0.060 | 0.110 | 184 | 18 | 19 | 14 | KED |
| Y | 89 | ug/L | | | 304032 | 304236 | 1 | Standard |
| Kr | 83 | ug/L | | | 53 | 55 | 21 | Standard |
| [> In-1 | 115 | ug/L | | | 8638 | 8362 | 1 | KED |
| Cd | 111 | 0.002 | 0.012 | 785 | 2 | 3 | 96 | KED |
| Cd | 114 | -0.003 | 0.006 | 224 | 5 | 3 | 102 | KED |
| [> In | 115 | ug/L | | | 433939 | 428781 | 0 | Standard |
| Ag | 107 | -0.002 | 0.002 | 81 | 219 | 187 | 12 | Standard |
| Sb | 121 | 0.027 | 0.002 | 8 | 54 | 354 | 8 | Standard |
| Sb | 123 | 0.027 | 0.004 | 13 | 38 | 269 | 12 | Standard |
| Ba | 135 | 0.006 | 0.002 | 35 | 13 | 34 | 22 | Standard |
| Ba | 137 | 0.005 | 0.001 | 13 | 22 | 55 | 8 | Standard |
| [> Tb | 159 | ug/L | | | 730524 | 724374 | 1 | Standard |
| Tl | 205 | 0.002 | 0.000 | 26 | 951 | 1003 | 0 | Standard |
| Pb | 208 | 0.001 | 0.000 | 37 | 86 | 125 | 9 | Standard |

Sample Information

Sample Date/Time: Friday, April 07, 2023 14:27:50

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED

Mass Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Conditions File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723.cal

Calibration

| Analyte | Mass | r Corr Coef | Slope | Std 1 Conc | Std 2 Conc | Std 3 Conc | Std 4 Conc | Std 5 Conc |
|---------|------|---------------|-------|------------|------------|------------|------------|------------|
| C | 13 | | | | | | | |
| Cl | 37 | | | | | | | |
| Sc | 45 | | | | | | | |
| Cr | 52 | 0.9999 | 0.033 | 0.50 | 10 | 20 | 50 | 100 |
| Cr | 53 | 0.9999 | 0.004 | 0.50 | 10 | 20 | 50 | 100 |
| Mn | 55 | 1.0000 | 0.046 | 0.50 | 10 | 20 | 50 | 100 |
| Ge | 72 | | | | | | | |
| Ni | 60 | 0.9999 | 0.038 | 0.50 | 10 | 20 | 50 | 100 |
| Ni | 62 | 0.9998 | 0.006 | 0.50 | 10 | 20 | 50 | 100 |
| Cu | 63 | 0.9999 | 0.111 | 0.50 | 10 | 20 | 50 | 100 |
| Cu | 65 | 1.0000 | 0.055 | 0.50 | 10 | 20 | 50 | 100 |
| Zn | 66 | 0.9999 | 0.014 | 6.00 | 10 | 20 | 50 | 100 |
| Zn | 67 | 0.9998 | 0.002 | 6.00 | 10 | 20 | 50 | 100 |
| As | 75 | 0.9999 | 0.007 | 0.20 | 10 | 20 | 50 | 100 |
| Se | 78 | 0.9999 | 0.001 | 0.50 | 10 | 20 | 50 | 100 |
| Y | 89 | | | | | | | |
| Kr | 83 | | | | | | | |
| In-1 | 115 | | | | | | | |
| Cd | 111 | 1.0000 | 0.030 | 0.10 | 10 | 20 | 50 | 100 |
| Cd | 114 | 1.0000 | 0.073 | 0.10 | 10 | 20 | 50 | 100 |
| In | 115 | | | | | | | |
| Ag | 107 | 1.0000 | 0.033 | 0.20 | 10 | 20 | 50 | 100 |
| Sb | 121 | 1.0000 | 0.026 | 0.20 | 10 | 20 | 50 | 100 |
| Sb | 123 | 1.0000 | 0.020 | 0.20 | 10 | 20 | 50 | 100 |
| Ba | 135 | 1.0000 | 0.008 | 0.50 | 10 | 20 | 50 | 100 |
| Ba | 137 | 1.0000 | 0.015 | 0.50 | 10 | 20 | 50 | 100 |
| Tb | 159 | | | | | | | |
| Tl | 205 | 1.0000 | 0.048 | 0.20 | 10 | 20 | 50 | 100 |
| Pb | 208 | 1.0000 | 0.062 | 0.10 | 10 | 20 | 50 | 100 |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-ICV1

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, April 07, 2023 14:43:40

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 29859 | 37305 | 2 | Standard |
| Cl | 37 | | ug/L | | | 4319739 | 4491368 | 1 | Standard |
| [> Sc | 45 | | ug/L | | | 534549 | 561289 | 1 | Standard |
| Cr | 52 | 52.146 | ug/L | 0.355 | 0 | 16833 | 977670 | 2 | Standard |
| Cr | 53 | 51.788 | ug/L | 0.775 | 1 | 189 | 110218 | 0 | Standard |
| Mn | 55 | 52.586 | ug/L | 0.701 | 1 | 1126 | 1360607 | 0 | Standard |
| [> Ge | 72 | | ug/L | | | 30905 | 31696 | 1 | KED |
| Ni | 60 | 49.861 | ug/L | 0.416 | 0 | 128 | 60162 | 1 | KED |
| Ni | 62 | 50.468 | ug/L | 0.353 | 0 | 22 | 9928 | 1 | KED |
| Cu | 63 | 50.087 | ug/L | 0.608 | 1 | 58 | 175863 | 1 | KED |
| Cu | 65 | 50.247 | ug/L | 0.678 | 1 | 30 | 87116 | 1 | KED |
| Zn | 66 | 48.554 | ug/L | 0.359 | 0 | 22 | 21604 | 1 | KED |
| Zn | 67 | 48.627 | ug/L | 2.221 | 4 | 4 | 3599 | 3 | KED |
| As | 75 | 46.543 | ug/L | 0.426 | 0 | 6 | 10783 | 0 | KED |
| [Se | 78 | 75.021 | ug/L | 1.069 | 1 | 18 | 1968 | 1 | KED |
| Y | 89 | | ug/L | | | 304032 | 320562 | 1 | Standard |
| Kr | 83 | | ug/L | | | 53 | 57 | 21 | Standard |
| [> In-1 | 115 | | ug/L | | | 8638 | 8630 | 1 | KED |
| Cd | 111 | 49.740 | ug/L | 0.082 | 0 | 2 | 12681 | 1 | KED |
| Cd | 114 | 48.943 | ug/L | 0.325 | 0 | 5 | 30703 | 1 | KED |
| [> In | 115 | | ug/L | | | 433939 | 424855 | 0 | Standard |
| Ag | 107 | 53.018 | ug/L | 0.788 | 1 | 219 | 750954 | 1 | Standard |
| Sb | 121 | 50.624 | ug/L | 0.270 | 0 | 54 | 554572 | 0 | Standard |
| Sb | 123 | 50.427 | ug/L | 0.589 | 1 | 38 | 422607 | 1 | Standard |
| Ba | 135 | 51.698 | ug/L | 1.115 | 2 | 13 | 183604 | 1 | Standard |
| [Ba | 137 | 52.157 | ug/L | 0.455 | 0 | 22 | 328810 | 1 | Standard |
| [> Tb | 159 | | ug/L | | | 730524 | 740859 | 0 | Standard |
| Tl | 205 | 50.079 | ug/L | 0.311 | 0 | 951 | 1764382 | 0 | Standard |
| [Pb | 208 | 50.539 | ug/L | 0.422 | 0 | 86 | 2319372 | 0 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-ICB1

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, April 07, 2023 14:51:14

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 29859 | 30607 | 1 | Standard |
| Cl | 37 | | ug/L | | | 4319739 | 4343618 | 0 | Standard |
| [> Sc | 45 | | ug/L | | | 534549 | 546372 | 2 | Standard |
| Cr | 52 | -0.012 | ug/L | 0.039 | 337 | 16833 | 16986 | 2 | Standard |
| Cr | 53 | -0.010 | ug/L | 0.005 | 46 | 189 | 173 | 4 | Standard |
| Mn | 55 | -0.004 | ug/L | 0.000 | 1 | 1126 | 1039 | 2 | Standard |
| [> Ge | 72 | | ug/L | | | 30905 | 30563 | 6 | KED |
| Ni | 60 | 0.041 | ug/L | 0.010 | 23 | 128 | 173 | 1 | KED |
| Ni | 62 | 0.065 | ug/L | 0.076 | 117 | 22 | 34 | 34 | KED |
| Cu | 63 | -0.001 | ug/L | 0.006 | 1016 | 58 | 55 | 34 | KED |
| Cu | 65 | -0.000 | ug/L | 0.006 | 1403 | 30 | 29 | 37 | KED |
| Zn | 66 | -0.005 | ug/L | 0.006 | 104 | 22 | 19 | 14 | KED |
| Zn | 67 | 0.027 | ug/L | 0.015 | 53 | 4 | 6 | 17 | KED |
| As | 75 | 0.004 | ug/L | 0.004 | 95 | 6 | 6 | 10 | KED |
| Se | 78 | -0.083 | ug/L | 0.090 | 108 | 18 | 16 | 8 | KED |
| Y | 89 | | ug/L | | | 304032 | 301477 | 2 | Standard |
| Kr | 83 | | ug/L | | | 53 | 55 | 5 | Standard |
| [> In-1 | 115 | | ug/L | | | 8638 | 8418 | 1 | KED |
| Cd | 111 | 0.010 | ug/L | 0.008 | 74 | 2 | 5 | 36 | KED |
| Cd | 114 | -0.003 | ug/L | 0.006 | 222 | 5 | 3 | 103 | KED |
| [> In | 115 | | ug/L | | | 433939 | 421024 | 1 | Standard |
| Ag | 107 | -0.004 | ug/L | 0.001 | 39 | 219 | 163 | 12 | Standard |
| Sb | 121 | 0.029 | ug/L | 0.002 | 7 | 54 | 362 | 5 | Standard |
| Sb | 123 | 0.029 | ug/L | 0.003 | 11 | 38 | 276 | 9 | Standard |
| Ba | 135 | -0.001 | ug/L | 0.001 | 115 | 13 | 9 | 40 | Standard |
| Ba | 137 | 0.001 | ug/L | 0.001 | 82 | 22 | 26 | 11 | Standard |
| [> Tb | 159 | | ug/L | | | 730524 | 726082 | 0 | Standard |
| Tl | 205 | 0.001 | ug/L | 0.002 | 127 | 951 | 994 | 6 | Standard |
| Pb | 208 | -0.000 | ug/L | 0.000 | 412 | 86 | 82 | 15 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV1

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, April 07, 2023 14:56:20

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 29859 | 30745 | 1 | Standard |
| Cl | 37 | | ug/L | | | 4319739 | 4484893 | 0 | Standard |
| [> Sc | 45 | | ug/L | | | 534549 | 557260 | 1 | Standard |
| Cr | 52 | 50.894 | ug/L | 0.679 | 1 | 16833 | 947632 | 0 | Standard |
| Cr | 53 | 51.496 | ug/L | 0.843 | 1 | 189 | 108813 | 0 | Standard |
| Mn | 55 | 51.245 | ug/L | 0.199 | 0 | 1126 | 1316569 | 1 | Standard |
| [> Ge | 72 | | ug/L | | | 30905 | 30859 | 0 | KED |
| Ni | 60 | 49.356 | ug/L | 0.298 | 0 | 128 | 57977 | 0 | KED |
| Ni | 62 | 49.766 | ug/L | 1.766 | 3 | 22 | 9530 | 2 | KED |
| Cu | 63 | 50.136 | ug/L | 0.332 | 0 | 58 | 171398 | 1 | KED |
| Cu | 65 | 50.177 | ug/L | 0.934 | 1 | 30 | 84715 | 2 | KED |
| Zn | 66 | 50.668 | ug/L | 1.170 | 2 | 22 | 21949 | 2 | KED |
| Zn | 67 | 50.589 | ug/L | 0.258 | 0 | 4 | 3647 | 0 | KED |
| As | 75 | 49.645 | ug/L | 0.364 | 0 | 6 | 11198 | 1 | KED |
| Se | 78 | 49.309 | ug/L | 0.451 | 0 | 18 | 1266 | 1 | KED |
| Y | 89 | | ug/L | | | 304032 | 313290 | 2 | Standard |
| Kr | 83 | | ug/L | | | 53 | 67 | 8 | Standard |
| [> In-1 | 115 | | ug/L | | | 8638 | 8624 | 0 | KED |
| Cd | 111 | 49.474 | ug/L | 0.740 | 1 | 2 | 12604 | 1 | KED |
| Cd | 114 | 49.749 | ug/L | 1.248 | 2 | 5 | 31188 | 2 | KED |
| [> In | 115 | | ug/L | | | 433939 | 429153 | 1 | Standard |
| Ag | 107 | 50.232 | ug/L | 1.014 | 2 | 219 | 718593 | 1 | Standard |
| Sb | 121 | 49.858 | ug/L | 0.954 | 1 | 54 | 551578 | 0 | Standard |
| Sb | 123 | 49.609 | ug/L | 1.242 | 2 | 38 | 419827 | 0 | Standard |
| Ba | 135 | 50.635 | ug/L | 1.000 | 1 | 13 | 181617 | 0 | Standard |
| Ba | 137 | 50.164 | ug/L | 0.431 | 0 | 22 | 319419 | 1 | Standard |
| [> Tb | 159 | | ug/L | | | 730524 | 736459 | 0 | Standard |
| Tl | 205 | 49.542 | ug/L | 0.992 | 2 | 951 | 1735100 | 1 | Standard |
| Pb | 208 | 49.250 | ug/L | 0.448 | 0 | 86 | 2246818 | 0 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB1

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, April 07, 2023 15:05:32

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 29859 | 31350 | 1 | Standard |
| Cl | 37 | | ug/L | | | 4319739 | 4360766 | 0 | Standard |
| [> Sc | 45 | | ug/L | | | 534549 | 541607 | 2 | Standard |
| Cr | 52 | -0.014 | ug/L | 0.012 | 82 | 16833 | 16804 | 1 | Standard |
| Cr | 53 | -0.016 | ug/L | 0.012 | 72 | 189 | 158 | 12 | Standard |
| Mn | 55 | -0.007 | ug/L | 0.001 | 17 | 1126 | 976 | 1 | Standard |
| [> Ge | 72 | | ug/L | | | 30905 | 30370 | 0 | KED |
| Ni | 60 | 0.042 | ug/L | 0.022 | 52 | 128 | 174 | 14 | KED |
| Ni | 62 | 0.039 | ug/L | 0.005 | 13 | 22 | 29 | 3 | KED |
| Cu | 63 | 0.001 | ug/L | 0.003 | 224 | 58 | 61 | 15 | KED |
| Cu | 65 | 0.004 | ug/L | 0.003 | 76 | 30 | 36 | 13 | KED |
| Zn | 66 | -0.005 | ug/L | 0.019 | 375 | 22 | 19 | 40 | KED |
| Zn | 67 | 0.010 | ug/L | 0.041 | 411 | 4 | 5 | 57 | KED |
| As | 75 | 0.007 | ug/L | 0.008 | 122 | 6 | 7 | 25 | KED |
| Se | 78 | 0.190 | ug/L | 0.066 | 34 | 18 | 22 | 7 | KED |
| Y | 89 | | ug/L | | | 304032 | 300302 | 1 | Standard |
| Kr | 83 | | ug/L | | | 53 | 51 | 23 | Standard |
| [> In-1 | 115 | | ug/L | | | 8638 | 8547 | 2 | KED |
| Cd | 111 | 0.004 | ug/L | 0.000 | 10 | 2 | 3 | 0 | KED |
| Cd | 114 | -0.003 | ug/L | 0.003 | 118 | 5 | 3 | 53 | KED |
| [> In | 115 | | ug/L | | | 433939 | 429772 | 0 | Standard |
| Ag | 107 | -0.005 | ug/L | 0.001 | 13 | 219 | 144 | 6 | Standard |
| Sb | 121 | 0.044 | ug/L | 0.002 | 4 | 54 | 539 | 3 | Standard |
| Sb | 123 | 0.045 | ug/L | 0.001 | 3 | 38 | 418 | 2 | Standard |
| Ba | 135 | -0.000 | ug/L | 0.002 | 1697 | 13 | 12 | 60 | Standard |
| Ba | 137 | -0.001 | ug/L | 0.001 | 102 | 22 | 17 | 26 | Standard |
| [> Tb | 159 | | ug/L | | | 730524 | 713009 | 0 | Standard |
| Tl | 205 | 0.001 | ug/L | 0.002 | 287 | 951 | 950 | 6 | Standard |
| Pb | 208 | 0.000 | ug/L | 0.000 | 918 | 86 | 85 | 15 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CRL1

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, April 07, 2023 15:11:52

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 29859 | 35819 | 1 | Standard |
| Cl | 37 | | ug/L | | | 4319739 | 4376045 | 1 | Standard |
| [> Sc | 45 | | ug/L | | | 534549 | 540381 | 0 | Standard |
| Cr | 52 | 0.544 | ug/L | 0.037 | 6 | 16833 | 26657 | 1 | Standard |
| Cr | 53 | 0.527 | ug/L | 0.031 | 5 | 189 | 1270 | 4 | Standard |
| Mn | 55 | 0.518 | ug/L | 0.013 | 2 | 1126 | 14038 | 1 | Standard |
| [> Ge | 72 | | ug/L | | | 30905 | 30747 | 1 | KED |
| Ni | 60 | 0.552 | ug/L | 0.032 | 5 | 128 | 772 | 5 | KED |
| Ni | 62 | 0.624 | ug/L | 0.028 | 4 | 22 | 141 | 5 | KED |
| Cu | 63 | 0.503 | ug/L | 0.027 | 5 | 58 | 1770 | 4 | KED |
| Cu | 65 | 0.538 | ug/L | 0.014 | 2 | 30 | 935 | 3 | KED |
| Zn | 66 | 6.133 | ug/L | 0.163 | 2 | 22 | 2666 | 3 | KED |
| Zn | 67 | 5.584 | ug/L | 0.170 | 3 | 4 | 405 | 3 | KED |
| As | 75 | 0.219 | ug/L | 0.005 | 2 | 6 | 55 | 1 | KED |
| [Se | 78 | 0.425 | ug/L | 0.113 | 26 | 18 | 28 | 9 | KED |
| Y | 89 | | ug/L | | | 304032 | 309901 | 1 | Standard |
| Kr | 83 | | ug/L | | | 53 | 59 | 5 | Standard |
| [> In-1 | 115 | | ug/L | | | 8638 | 8467 | 1 | KED |
| Cd | 111 | 0.113 | ug/L | 0.004 | 3 | 2 | 31 | 1 | KED |
| Cd | 114 | 0.112 | ug/L | 0.008 | 6 | 5 | 74 | 5 | KED |
| [> In | 115 | | ug/L | | | 433939 | 431090 | 2 | Standard |
| Ag | 107 | 0.198 | ug/L | 0.016 | 7 | 219 | 3060 | 4 | Standard |
| Sb | 121 | 0.207 | ug/L | 0.005 | 2 | 54 | 2360 | 4 | Standard |
| Sb | 123 | 0.207 | ug/L | 0.011 | 5 | 38 | 1799 | 4 | Standard |
| Ba | 135 | 0.503 | ug/L | 0.030 | 6 | 13 | 1824 | 5 | Standard |
| [Ba | 137 | 0.505 | ug/L | 0.025 | 5 | 22 | 3249 | 2 | Standard |
| [> Tb | 159 | | ug/L | | | 730524 | 716653 | 0 | Standard |
| Tl | 205 | 0.202 | ug/L | 0.010 | 5 | 951 | 7818 | 4 | Standard |
| [Pb | 208 | 0.109 | ug/L | 0.002 | 2 | 86 | 4911 | 2 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IFA1

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, April 07, 2023 15:19:12

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 29859 | 137501 | 1 | Standard |
| Cl | 37 | | ug/L | | | 4319739 | 11319280 | 5 | Standard |
| [> Sc | 45 | | ug/L | | | 534549 | 573507 | 2 | Standard |
| Cr | 52 | 0.796 | ug/L | 0.071 | 8 | 16833 | 33011 | 2 | Standard |
| Cr | 53 | 3.997 | ug/L | 0.165 | 4 | 189 | 8874 | 1 | Standard |
| Mn | 55 | 0.089 | ug/L | 0.003 | 3 | 1126 | 3558 | 3 | Standard |
| [> Ge | 72 | | ug/L | | | 30905 | 29098 | 0 | KED |
| Ni | 60 | 0.161 | ug/L | 0.021 | 12 | 128 | 299 | 7 | KED |
| Ni | 62 | 0.215 | ug/L | 0.009 | 4 | 22 | 60 | 1 | KED |
| Cu | 63 | 0.063 | ug/L | 0.004 | 5 | 58 | 257 | 3 | KED |
| Cu | 65 | 0.062 | ug/L | 0.011 | 18 | 30 | 126 | 15 | KED |
| Zn | 66 | 0.243 | ug/L | 0.013 | 5 | 22 | 120 | 4 | KED |
| Zn | 67 | 0.200 | ug/L | 0.114 | 57 | 4 | 17 | 44 | KED |
| As | 75 | 0.025 | ug/L | 0.015 | 61 | 6 | 10 | 30 | KED |
| Se | 78 | 0.298 | ug/L | 0.151 | 50 | 18 | 24 | 15 | KED |
| Y | 89 | | ug/L | | | 304032 | 320724 | 2 | Standard |
| Kr | 83 | | ug/L | | | 53 | 146 | 17 | Standard |
| [> In-1 | 115 | | ug/L | | | 8638 | 8124 | 3 | KED |
| Cd | 111 | 0.061 | ug/L | 0.014 | 23 | 2 | 17 | 22 | KED |
| Cd | 114 | 0.053 | ug/L | 0.011 | 19 | 5 | 36 | 15 | KED |
| [> In | 115 | | ug/L | | | 433939 | 418518 | 2 | Standard |
| Ag | 107 | 0.009 | ug/L | 0.001 | 15 | 219 | 332 | 3 | Standard |
| Sb | 121 | 0.044 | ug/L | 0.004 | 8 | 54 | 522 | 7 | Standard |
| Sb | 123 | 0.042 | ug/L | 0.001 | 2 | 38 | 383 | 0 | Standard |
| Ba | 135 | 0.118 | ug/L | 0.003 | 2 | 13 | 424 | 0 | Standard |
| Ba | 137 | 0.117 | ug/L | 0.008 | 6 | 22 | 748 | 6 | Standard |
| [> Tb | 159 | | ug/L | | | 730524 | 731305 | 1 | Standard |
| Tl | 205 | 0.014 | ug/L | 0.002 | 14 | 951 | 1445 | 4 | Standard |
| Pb | 208 | 0.036 | ug/L | 0.001 | 3 | 86 | 1704 | 2 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IFB1

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, April 07, 2023 15:24:02

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 29859 | 141947 | 1 | Standard |
| Cl | 37 | | ug/L | | | 4319739 | 11664664 | 2 | Standard |
| [> Sc | 45 | | ug/L | | | 534549 | 588772 | 0 | Standard |
| Cr | 52 | 20.588 | ug/L | 0.455 | 2 | 16833 | 416123 | 2 | Standard |
| Cr | 53 | 24.112 | ug/L | 0.225 | 0 | 189 | 53948 | 0 | Standard |
| Mn | 55 | 19.664 | ug/L | 0.153 | 0 | 1126 | 534577 | 1 | Standard |
| [> Ge | 72 | | ug/L | | | 30905 | 29954 | 0 | KED |
| Ni | 60 | 19.772 | ug/L | 0.439 | 2 | 128 | 22621 | 2 | KED |
| Ni | 62 | 20.453 | ug/L | 0.515 | 2 | 22 | 3815 | 2 | KED |
| Cu | 63 | 19.582 | ug/L | 0.523 | 2 | 58 | 65014 | 2 | KED |
| Cu | 65 | 19.715 | ug/L | 0.234 | 1 | 30 | 32323 | 1 | KED |
| Zn | 66 | 18.334 | ug/L | 0.309 | 1 | 22 | 7723 | 1 | KED |
| Zn | 67 | 16.308 | ug/L | 0.733 | 4 | 4 | 1144 | 4 | KED |
| As | 75 | 18.948 | ug/L | 0.170 | 0 | 6 | 4152 | 0 | KED |
| [Se | 78 | 0.172 | ug/L | 0.132 | 76 | 18 | 22 | 14 | KED |
| Y | 89 | | ug/L | | | 304032 | 321934 | 0 | Standard |
| Kr | 83 | | ug/L | | | 53 | 134 | 7 | Standard |
| [> In-1 | 115 | | ug/L | | | 8638 | 8118 | 2 | KED |
| Cd | 111 | 19.241 | ug/L | 0.662 | 3 | 2 | 4614 | 2 | KED |
| Cd | 114 | 18.956 | ug/L | 0.188 | 0 | 5 | 11188 | 1 | KED |
| [> In | 115 | | ug/L | | | 433939 | 417920 | 1 | Standard |
| Ag | 107 | 19.253 | ug/L | 0.301 | 1 | 219 | 268382 | 1 | Standard |
| Sb | 121 | 0.029 | ug/L | 0.001 | 3 | 54 | 366 | 3 | Standard |
| Sb | 123 | 0.035 | ug/L | 0.004 | 11 | 38 | 325 | 9 | Standard |
| Ba | 135 | 0.118 | ug/L | 0.005 | 4 | 13 | 425 | 5 | Standard |
| [Ba | 137 | 0.115 | ug/L | 0.002 | 1 | 22 | 732 | 2 | Standard |
| [> Tb | 159 | | ug/L | | | 730524 | 729741 | 1 | Standard |
| Tl | 205 | 0.008 | ug/L | 0.001 | 15 | 951 | 1219 | 2 | Standard |
| [Pb | 208 | 0.027 | ug/L | 0.003 | 10 | 86 | 1293 | 8 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-HCV1

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, April 07, 2023 15:28:46

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 29859 | 37611 | 1 | Standard |
| Cl | 37 | | ug/L | | | 4319739 | 4508218 | 0 | Standard |
| [> Sc | 45 | | ug/L | | | 534549 | 552404 | 1 | Standard |
| Cr | 52 | 203.000 | ug/L | 6.001 | 2 | 16833 | 3694700 | 2 | Standard |
| Cr | 53 | 202.272 | ug/L | 2.564 | 1 | 189 | 423143 | 0 | Standard |
| Mn | 55 | 198.656 | ug/L | 3.452 | 1 | 1126 | 5055583 | 0 | Standard |
| [> Ge | 72 | | ug/L | | | 30905 | 29324 | 0 | KED |
| Ni | 60 | 193.231 | ug/L | 1.897 | 0 | 128 | 215354 | 1 | KED |
| Ni | 62 | 198.638 | ug/L | 3.179 | 1 | 22 | 36091 | 1 | KED |
| Cu | 63 | 191.239 | ug/L | 2.807 | 1 | 58 | 621108 | 1 | KED |
| Cu | 65 | 194.747 | ug/L | 6.347 | 3 | 30 | 312350 | 3 | KED |
| Zn | 66 | 193.074 | ug/L | 0.779 | 0 | 22 | 79422 | 0 | KED |
| Zn | 67 | 191.388 | ug/L | 0.252 | 0 | 4 | 13101 | 0 | KED |
| As | 75 | 198.856 | ug/L | 2.458 | 1 | 6 | 42609 | 1 | KED |
| Se | 78 | 190.074 | ug/L | 1.921 | 1 | 18 | 4588 | 1 | KED |
| Y | 89 | | ug/L | | | 304032 | 310348 | 2 | Standard |
| Kr | 83 | | ug/L | | | 53 | 125 | 9 | Standard |
| [> In-1 | 115 | | ug/L | | | 8638 | 8212 | 3 | KED |
| Cd | 111 | 190.838 | ug/L | 5.963 | 3 | 2 | 46255 | 0 | KED |
| Cd | 114 | 191.453 | ug/L | 6.634 | 3 | 5 | 114174 | 0 | KED |
| [> In | 115 | | ug/L | | | 433939 | 407123 | 1 | Standard |
| Ag | 107 | 201.213 | ug/L | 6.033 | 2 | 219 | 2729885 | 2 | Standard |
| Sb | 121 | 205.677 | ug/L | 2.355 | 1 | 54 | 2158669 | 1 | Standard |
| Sb | 123 | 198.333 | ug/L | 5.263 | 2 | 38 | 1592184 | 1 | Standard |
| Ba | 135 | 200.954 | ug/L | 3.327 | 1 | 13 | 683767 | 0 | Standard |
| Ba | 137 | 202.902 | ug/L | 4.702 | 2 | 22 | 1225393 | 1 | Standard |
| [> Tb | 159 | | ug/L | | | 730524 | 716714 | 1 | Standard |
| Tl | 205 | 193.967 | ug/L | 2.775 | 1 | 951 | 6607623 | 0 | Standard |
| Pb | 208 | 196.847 | ug/L | 3.641 | 1 | 86 | 8737823 | 0 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-HCV2

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, April 07, 2023 15:33:36

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 29859 | 37912 | 2 | Standard |
| Cl | 37 | | ug/L | | | 4319739 | 4442321 | 0 | Standard |
| [> Sc | 45 | | ug/L | | | 534549 | 533231 | 0 | Standard |
| Cr | 52 | 299.515 | ug/L | 4.032 | 1 | 16833 | 5255505 | 2 | Standard |
| Cr | 53 | 304.625 | ug/L | 2.690 | 0 | 189 | 615130 | 1 | Standard |
| Mn | 55 | 302.523 | ug/L | 3.311 | 1 | 1126 | 7431611 | 0 | Standard |
| [> Ge | 72 | | ug/L | | | 30905 | 27807 | 1 | KED |
| Ni | 60 | 294.951 | ug/L | 13.811 | 4 | 128 | 311512 | 3 | KED |
| Ni | 62 | 299.460 | ug/L | 6.383 | 2 | 22 | 51575 | 1 | KED |
| Cu | 63 | 288.698 | ug/L | 3.306 | 1 | 58 | 888990 | 0 | KED |
| Cu | 65 | 286.543 | ug/L | 2.994 | 1 | 30 | 435750 | 1 | KED |
| Zn | 66 | 281.527 | ug/L | 9.192 | 3 | 22 | 109786 | 2 | KED |
| Zn | 67 | 281.576 | ug/L | 8.256 | 2 | 4 | 18270 | 1 | KED |
| As | 75 | 301.089 | ug/L | 7.869 | 2 | 6 | 61157 | 1 | KED |
| [Se | 78 | 285.363 | ug/L | 2.715 | 0 | 18 | 6523 | 1 | KED |
| Y | 89 | | ug/L | | | 304032 | 298518 | 1 | Standard |
| Kr | 83 | | ug/L | | | 53 | 186 | 7 | Standard |
| [> In-1 | 115 | | ug/L | | | 8638 | 7846 | 1 | KED |
| Cd | 111 | 285.268 | ug/L | 6.161 | 2 | 2 | 66094 | 0 | KED |
| [Cd | 114 | 282.414 | ug/L | 6.858 | 2 | 5 | 161005 | 1 | KED |
| [> In | 115 | | ug/L | | | 433939 | 386876 | 0 | Standard |
| Ag | 107 | 303.850 | ug/L | 2.973 | 0 | 219 | 3918395 | 1 | Standard |
| Sb | 121 | 307.296 | ug/L | 2.127 | 0 | 54 | 3065149 | 0 | Standard |
| Sb | 123 | 308.189 | ug/L | 4.040 | 1 | 38 | 2351687 | 1 | Standard |
| Ba | 135 | 308.925 | ug/L | 5.294 | 1 | 13 | 999038 | 1 | Standard |
| [Ba | 137 | 308.309 | ug/L | 3.549 | 1 | 22 | 1769732 | 0 | Standard |
| [> Tb | 159 | | ug/L | | | 730524 | 679450 | 0 | Standard |
| Tl | 205 | 294.936 | ug/L | 1.383 | 0 | 951 | 9525635 | 0 | Standard |
| [Pb | 208 | 296.500 | ug/L | 1.198 | 0 | 86 | 12479197 | 0 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL2

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, April 07, 2023 15:41:10

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|--------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 29859 | 35308 | 1 | Standard |
| Cl | 37 | | ug/L | | | 4319739 | 4463736 | 1 | Standard |
| [> Sc | 45 | | ug/L | | | 534549 | 525918 | 2 | Standard |
| Cr | 52 | 0.011 | ug/L | 0.017 | 151 | 16833 | 16750 | 1 | Standard |
| Cr | 53 | 0.035 | ug/L | 0.003 | 8 | 189 | 255 | 0 | Standard |
| Mn | 55 | 0.004 | ug/L | 0.002 | 52 | 1126 | 1209 | 6 | Standard |
| [> Ge | 72 | | ug/L | | | 30905 | 30557 | 2 | KED |
| Ni | 60 | 0.002 | ug/L | 0.017 | 1100 | 128 | 128 | 12 | KED |
| Ni | 62 | 0.011 | ug/L | 0.018 | 163 | 22 | 24 | 15 | KED |
| Cu | 63 | 0.005 | ug/L | 0.003 | 47 | 58 | 75 | 12 | KED |
| Cu | 65 | 0.005 | ug/L | 0.003 | 71 | 30 | 38 | 13 | KED |
| Zn | 66 | 0.016 | ug/L | 0.023 | 149 | 22 | 28 | 33 | KED |
| Zn | 67 | -0.026 | ug/L | 0.016 | 63 | 4 | 2 | 43 | KED |
| As | 75 | 0.010 | ug/L | 0.002 | 17 | 6 | 8 | 6 | KED |
| Se | 78 | -0.007 | ug/L | 0.064 | 894 | 18 | 17 | 9 | KED |
| Y | 89 | | ug/L | | | 304032 | 298183 | 3 | Standard |
| Kr | 83 | | ug/L | | | 53 | 42 | 24 | Standard |
| [> In-1 | 115 | | ug/L | | | 8638 | 8394 | 2 | KED |
| Cd | 111 | 0.003 | ug/L | 0.002 | 84 | 2 | 3 | 15 | KED |
| Cd | 114 | -0.005 | ug/L | 0.005 | 103 | 5 | 2 | 123 | KED |
| [> In | 115 | | ug/L | | | 433939 | 419075 | 2 | Standard |
| Ag | 107 | -0.004 | ug/L | 0.001 | 18 | 219 | 156 | 9 | Standard |
| Sb | 121 | <u>0.187</u> | ug/L | 0.012 | 6 | 54 | 2078 | 8 | Standard |
| Sb | 123 | <u>0.181</u> | ug/L | 0.004 | 2 | 38 | 1531 | 2 | Standard |
| Ba | 135 | 0.008 | ug/L | 0.002 | 24 | 13 | 42 | 14 | Standard |
| Ba | 137 | 0.010 | ug/L | 0.000 | 3 | 22 | 81 | 2 | Standard |
| [> Tb | 159 | | ug/L | | | 730524 | 706213 | 1 | Standard |
| Tl | 205 | 0.015 | ug/L | 0.001 | 8 | 951 | 1420 | 1 | Standard |
| Pb | 208 | 0.002 | ug/L | 0.000 | 20 | 86 | 181 | 10 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL3

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, April 07, 2023 15:47:55

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 29859 | 35650 | 2 | Standard |
| Cl | 37 | | ug/L | | | 4319739 | 4436713 | 0 | Standard |
| [> Sc | 45 | | ug/L | | | 534549 | 538488 | 2 | Standard |
| Cr | 52 | 0.046 | ug/L | 0.110 | 240 | 16833 | 17731 | 8 | Standard |
| Cr | 53 | 0.080 | ug/L | 0.103 | 129 | 189 | 351 | 56 | Standard |
| Mn | 55 | 0.053 | ug/L | 0.092 | 175 | 1126 | 2401 | 91 | Standard |
| [> Ge | 72 | | ug/L | | | 30905 | 30422 | 4 | KED |
| Ni | 60 | 0.000 | ug/L | 0.002 | 8342 | 128 | 126 | 6 | KED |
| Ni | 62 | 0.006 | ug/L | 0.040 | 655 | 22 | 23 | 28 | KED |
| Cu | 63 | -0.003 | ug/L | 0.002 | 75 | 58 | 48 | 9 | KED |
| Cu | 65 | 0.002 | ug/L | 0.004 | 164 | 30 | 33 | 19 | KED |
| Zn | 66 | 0.007 | ug/L | 0.008 | 113 | 22 | 24 | 15 | KED |
| Zn | 67 | -0.035 | ug/L | 0.046 | 131 | 4 | 1 | 173 | KED |
| As | 75 | 0.007 | ug/L | 0.009 | 122 | 6 | 7 | 22 | KED |
| [Se | 78 | 0.069 | ug/L | 0.058 | 84 | 18 | 19 | 9 | KED |
| Y | 89 | | ug/L | | | 304032 | 302900 | 2 | Standard |
| Kr | 83 | | ug/L | | | 53 | 57 | 5 | Standard |
| [> In-1 | 115 | | ug/L | | | 8638 | 8547 | 1 | KED |
| Cd | 111 | -0.001 | ug/L | 0.004 | 384 | 2 | 2 | 43 | KED |
| Cd | 114 | -0.001 | ug/L | 0.005 | 603 | 5 | 4 | 57 | KED |
| [> In | 115 | | ug/L | | | 433939 | 426582 | 0 | Standard |
| Ag | 107 | 0.029 | ug/L | 0.058 | 198 | 219 | 629 | 130 | Standard |
| Sb | 121 | 0.114 | ug/L | 0.102 | 89 | 54 | 1301 | 85 | Standard |
| Sb | 123 | 0.125 | ug/L | 0.113 | 89 | 38 | 1088 | 86 | Standard |
| Ba | 135 | 0.073 | ug/L | 0.121 | 164 | 13 | 273 | 156 | Standard |
| [Ba | 137 | 0.065 | ug/L | 0.105 | 161 | 22 | 433 | 152 | Standard |
| [> Tb | 159 | | ug/L | | | 730524 | 710638 | 1 | Standard |
| Tl | 205 | 0.066 | ug/L | 0.103 | 155 | 951 | 3177 | 110 | Standard |
| [Pb | 208 | 0.062 | ug/L | 0.105 | 170 | 86 | 2828 | 165 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV2

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, April 07, 2023 15:52:46

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 29859 | 31781 | 2 | Standard |
| Cl | 37 | | ug/L | | | 4319739 | 4567992 | 0 | Standard |
| [> Sc | 45 | | ug/L | | | 534549 | 547411 | 0 | Standard |
| Cr | 52 | 50.973 | ug/L | 0.208 | 0 | 16833 | 932410 | 0 | Standard |
| Cr | 53 | 52.217 | ug/L | 0.425 | 0 | 189 | 108404 | 1 | Standard |
| Mn | 55 | 51.786 | ug/L | 0.772 | 1 | 1126 | 1307049 | 1 | Standard |
| [> Ge | 72 | | ug/L | | | 30905 | 31311 | 0 | KED |
| Ni | 60 | 48.558 | ug/L | 0.869 | 1 | 128 | 57882 | 2 | KED |
| Ni | 62 | 48.297 | ug/L | 0.925 | 1 | 22 | 9387 | 1 | KED |
| Cu | 63 | 49.226 | ug/L | 0.733 | 1 | 58 | 170750 | 1 | KED |
| Cu | 65 | 49.234 | ug/L | 1.165 | 2 | 30 | 84335 | 2 | KED |
| Zn | 66 | 49.553 | ug/L | 0.965 | 1 | 22 | 21781 | 1 | KED |
| Zn | 67 | 51.115 | ug/L | 1.179 | 2 | 4 | 3739 | 2 | KED |
| As | 75 | 49.259 | ug/L | 0.617 | 1 | 6 | 11274 | 1 | KED |
| [Se | 78 | 49.418 | ug/L | 1.501 | 3 | 18 | 1287 | 3 | KED |
| Y | 89 | | ug/L | | | 304032 | 310526 | 1 | Standard |
| Kr | 83 | | ug/L | | | 53 | 74 | 20 | Standard |
| [> In-1 | 115 | | ug/L | | | 8638 | 8473 | 0 | KED |
| Cd | 111 | 50.347 | ug/L | 0.547 | 1 | 2 | 12602 | 0 | KED |
| [Cd | 114 | 50.354 | ug/L | 0.509 | 1 | 5 | 31013 | 1 | KED |
| [> In | 115 | | ug/L | | | 433939 | 422753 | 0 | Standard |
| Ag | 107 | 51.601 | ug/L | 0.701 | 1 | 219 | 727274 | 0 | Standard |
| Sb | 121 | 49.805 | ug/L | 0.745 | 1 | 54 | 542901 | 1 | Standard |
| Sb | 123 | 49.797 | ug/L | 0.270 | 0 | 38 | 415255 | 0 | Standard |
| Ba | 135 | 50.146 | ug/L | 0.603 | 1 | 13 | 177229 | 1 | Standard |
| [Ba | 137 | 50.082 | ug/L | 0.697 | 1 | 22 | 314158 | 1 | Standard |
| [> Tb | 159 | | ug/L | | | 730524 | 741690 | 2 | Standard |
| Tl | 205 | 47.921 | ug/L | 1.461 | 3 | 951 | 1689556 | 1 | Standard |
| [Pb | 208 | 48.467 | ug/L | 1.106 | 2 | 86 | 2226098 | 0 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB2

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, April 07, 2023 16:00:21

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 29859 | 31463 | 2 | Standard |
| Cl | 37 | | ug/L | | | 4319739 | 4432108 | 2 | Standard |
| [> Sc | 45 | | ug/L | | | 534549 | 528091 | 0 | Standard |
| Cr | 52 | 0.007 | ug/L | 0.023 | 309 | 16833 | 16757 | 1 | Standard |
| Cr | 53 | 0.009 | ug/L | 0.005 | 51 | 189 | 205 | 3 | Standard |
| Mn | 55 | 0.004 | ug/L | 0.001 | 26 | 1126 | 1199 | 1 | Standard |
| [> Ge | 72 | | ug/L | | | 30905 | 29552 | 0 | KED |
| Ni | 60 | 0.005 | ug/L | 0.019 | 380 | 128 | 128 | 16 | KED |
| Ni | 62 | -0.015 | ug/L | 0.018 | 116 | 22 | 19 | 17 | KED |
| Cu | 63 | 0.003 | ug/L | 0.003 | 86 | 58 | 66 | 13 | KED |
| Cu | 65 | -0.003 | ug/L | 0.006 | 232 | 30 | 24 | 40 | KED |
| Zn | 66 | 0.004 | ug/L | 0.004 | 114 | 22 | 22 | 8 | KED |
| Zn | 67 | -0.025 | ug/L | 0.016 | 64 | 4 | 2 | 43 | KED |
| As | 75 | 0.014 | ug/L | 0.014 | 101 | 6 | 8 | 34 | KED |
| Se | 78 | 0.124 | ug/L | 0.186 | 150 | 18 | 20 | 21 | KED |
| Y | 89 | | ug/L | | | 304032 | 292128 | 3 | Standard |
| Kr | 83 | | ug/L | | | 53 | 50 | 21 | Standard |
| [> In-1 | 115 | | ug/L | | | 8638 | 8368 | 0 | KED |
| Cd | 111 | 0.017 | ug/L | 0.010 | 57 | 2 | 6 | 34 | KED |
| Cd | 114 | -0.004 | ug/L | 0.002 | 49 | 5 | 3 | 35 | KED |
| [> In | 115 | | ug/L | | | 433939 | 418683 | 0 | Standard |
| Ag | 107 | -0.009 | ug/L | 0.000 | 3 | 219 | 85 | 4 | Standard |
| Sb | 121 | 0.070 | ug/L | 0.003 | 4 | 54 | 803 | 4 | Standard |
| Sb | 123 | 0.068 | ug/L | 0.002 | 3 | 38 | 600 | 3 | Standard |
| Ba | 135 | 0.001 | ug/L | 0.001 | 84 | 13 | 15 | 12 | Standard |
| Ba | 137 | -0.000 | ug/L | 0.001 | 513 | 22 | 20 | 42 | Standard |
| [> Tb | 159 | | ug/L | | | 730524 | 701949 | 0 | Standard |
| Tl | 205 | 0.004 | ug/L | 0.001 | 27 | 951 | 1034 | 2 | Standard |
| Pb | 208 | 0.000 | ug/L | 0.000 | 18 | 86 | 103 | 3 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, April 07, 2023 16:09:33

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File:

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | | 30728 | 3 | Standard |
| Cl | 37 | | ug/L | | | | 4438068 | 1 | Standard |
| [> Sc | 45 | | ug/L | | | | 546109 | 0 | Standard |
| Cr | 52 | | ug/L | | | | 17159 | 1 | Standard |
| Cr | 53 | | ug/L | | | | 216 | 7 | Standard |
| Mn | 55 | | ug/L | | | | 1132 | 1 | Standard |
| [> Ge | 72 | | ug/L | | | | 29835 | 0 | KED |
| Ni | 60 | | ug/L | | | | 138 | 23 | KED |
| Ni | 62 | | ug/L | | | | 33 | 14 | KED |
| Cu | 63 | | ug/L | | | | 80 | 9 | KED |
| Cu | 65 | | ug/L | | | | 24 | 7 | KED |
| Zn | 66 | | ug/L | | | | 43 | 5 | KED |
| Zn | 67 | | ug/L | | | | 3 | 100 | KED |
| As | 75 | | ug/L | | | | 16 | 17 | KED |
| Se | 78 | | ug/L | | | | 19 | 20 | KED |
| Y | 89 | | ug/L | | | | 297640 | 2 | Standard |
| Kr | 83 | | ug/L | | | | 48 | 9 | Standard |
| [> In-1 | 115 | | ug/L | | | | 8217 | 1 | KED |
| Cd | 111 | | ug/L | | | | 4 | 26 | KED |
| Cd | 114 | | ug/L | | | | 2 | 46 | KED |
| [> In | 115 | | ug/L | | | | 413136 | 2 | Standard |
| Ag | 107 | | ug/L | | | | 89 | 3 | Standard |
| Ba | 135 | | ug/L | | | | 37 | 10 | Standard |
| Ba | 137 | | ug/L | | | | 46 | 24 | Standard |
| [> Tb | 159 | | ug/L | | | | 720127 | 1 | Standard |
| Pb | 208 | | ug/L | | | | 200 | 11 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV3

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, April 07, 2023 16:14:17

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File:

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30728 | 31157 | 1 | Standard |
| Cl | 37 | | ug/L | | | 4438068 | 4572001 | 1 | Standard |
| [> Sc | 45 | | ug/L | | | 546109 | 544643 | 5 | Standard |
| Cr | 52 | 51.263 | ug/L | 2.368 | 4 | 17159 | 931350 | 1 | Standard |
| Cr | 53 | 51.296 | ug/L | 2.226 | 4 | 216 | 105812 | 1 | Standard |
| Mn | 55 | 51.754 | ug/L | 1.933 | 3 | 1132 | 1297840 | 1 | Standard |
| [> Ge | 72 | | ug/L | | | 29835 | 30870 | 1 | KED |
| Ni | 60 | 48.285 | ug/L | 0.879 | 1 | 138 | 56760 | 2 | KED |
| Ni | 62 | 49.093 | ug/L | 1.139 | 2 | 33 | 9417 | 0 | KED |
| Cu | 63 | 49.619 | ug/L | 1.790 | 3 | 80 | 169733 | 4 | KED |
| Cu | 65 | 49.203 | ug/L | 0.410 | 0 | 24 | 83081 | 0 | KED |
| Zn | 66 | 49.963 | ug/L | 0.420 | 0 | 43 | 21674 | 1 | KED |
| Zn | 67 | 49.348 | ug/L | 1.180 | 2 | 3 | 3558 | 2 | KED |
| As | 75 | 49.341 | ug/L | 0.266 | 0 | 16 | 11145 | 2 | KED |
| Se | 78 | 49.069 | ug/L | 1.009 | 2 | 19 | 1263 | 3 | KED |
| Y | 89 | | ug/L | | | 297640 | 298566 | 5 | Standard |
| Kr | 83 | | ug/L | | | 48 | 67 | 25 | Standard |
| [> In-1 | 115 | | ug/L | | | 8217 | 8586 | 0 | KED |
| Cd | 111 | 49.093 | ug/L | 1.063 | 2 | 4 | 12453 | 1 | KED |
| Cd | 114 | 48.650 | ug/L | 0.205 | 0 | 2 | 30361 | 1 | KED |
| [> In | 115 | | ug/L | | | 413136 | 410741 | 6 | Standard |
| Ag | 107 | 51.750 | ug/L | 2.496 | 4 | 89 | 707012 | 2 | Standard |
| Ba | 135 | 52.477 | ug/L | 2.746 | 5 | 37 | 179787 | 1 | Standard |
| Ba | 137 | 50.876 | ug/L | 2.826 | 5 | 46 | 309312 | 1 | Standard |
| [> Tb | 159 | | ug/L | | | 720127 | 707934 | 4 | Standard |
| Pb | 208 | 51.689 | ug/L | 2.224 | 4 | 200 | 2263987 | 0 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB3

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, April 07, 2023 16:21:45

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30728 | 31020 | 3 | Standard |
| Cl | 37 | | ug/L | | | 4438068 | 4512376 | 1 | Standard |
| [> Sc | 45 | | ug/L | | | 546109 | 534788 | 1 | Standard |
| Cr | 52 | -0.004 | ug/L | 0.008 | 211 | 17159 | 16737 | 1 | Standard |
| Cr | 53 | -0.009 | ug/L | 0.014 | 150 | 216 | 193 | 13 | Standard |
| Mn | 55 | -0.003 | ug/L | 0.001 | 34 | 1132 | 1041 | 2 | Standard |
| [> Ge | 72 | | ug/L | | | 29835 | 30002 | 2 | KED |
| Ni | 60 | -0.022 | ug/L | 0.012 | 55 | 138 | 114 | 12 | KED |
| Ni | 62 | -0.032 | ug/L | 0.011 | 35 | 33 | 27 | 7 | KED |
| Cu | 63 | -0.009 | ug/L | 0.001 | 10 | 80 | 52 | 4 | KED |
| Cu | 65 | 0.007 | ug/L | 0.008 | 119 | 24 | 35 | 35 | KED |
| Zn | 66 | -0.044 | ug/L | 0.027 | 61 | 43 | 24 | 46 | KED |
| Zn | 67 | 0.018 | ug/L | 0.042 | 230 | 3 | 5 | 57 | KED |
| As | 75 | -0.030 | ug/L | 0.007 | 23 | 16 | 9 | 15 | KED |
| Se | 78 | -0.065 | ug/L | 0.118 | 180 | 19 | 18 | 17 | KED |
| Y | 89 | | ug/L | | | 297640 | 305261 | 1 | Standard |
| Kr | 83 | | ug/L | | | 48 | 43 | 18 | Standard |
| [> In-1 | 115 | | ug/L | | | 8217 | 8300 | 1 | KED |
| Cd | 111 | -0.008 | ug/L | 0.002 | 29 | 4 | 2 | 24 | KED |
| Cd | 114 | 0.002 | ug/L | 0.003 | 138 | 2 | 3 | 50 | KED |
| [> In | 115 | | ug/L | | | 413136 | 422142 | 2 | Standard |
| Ag | 107 | -0.001 | ug/L | 0.001 | 35 | 89 | 70 | 9 | Standard |
| Ba | 135 | -0.004 | ug/L | 0.002 | 60 | 37 | 24 | 33 | Standard |
| Ba | 137 | -0.001 | ug/L | 0.002 | 142 | 46 | 40 | 28 | Standard |
| [> Tb | 159 | | ug/L | | | 720127 | 705094 | 2 | Standard |
| Pb | 208 | 0.000 | ug/L | 0.000 | 58 | 200 | 210 | 1 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **BLD0180-BLK1**

Sample Dil Factor:

Comments:

Sample Date/Time: **Friday, April 07, 2023 16:27:56**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|---------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30728 | 41310 | 1 | Standard |
| Cl | 37 | | ug/L | | | 4438068 | 4438081 | 1 | Standard |
| > Sc | 45 | | ug/L | | | 546109 | 540509 | 1 | Standard |
| Cr | 52 | 0.090 | ug/L | 0.033 | 36 | 17159 | 18580 | 2 | Standard |
| Cr | 53 | 0.048 | ug/L | 0.012 | 25 | 216 | 312 | 6 | Standard |
| Mn | 55 | 0.061 | ug/L | 0.004 | 5 | 1132 | 2650 | 2 | Standard |
| > Ge | 72 | | ug/L | | | 29835 | 30773 | 1 | KED |
| Ni | 60 | 0.024 | ug/L | 0.018 | 73 | 138 | 170 | 10 | KED |
| Ni | 62 | -0.059 | ug/L | 0.032 | 54 | 33 | 23 | 26 | KED |
| Cu | 63 | 0.066 | ug/L | 0.003 | 5 | 80 | 306 | 2 | KED |
| Cu | 65 | 0.061 | ug/L | 0.005 | 7 | 24 | 128 | 5 | KED |
| Zn | 66 | 0.334 | ug/L | 0.020 | 6 | 43 | 188 | 4 | KED |
| Zn | 67 | 0.318 | ug/L | 0.120 | 37 | 3 | 26 | 31 | KED |
| As | 75 | -0.035 | ug/L | 0.005 | 15 | 16 | 8 | 12 | KED |
| Se | 78 | -0.037 | ug/L | 0.194 | 525 | 19 | 19 | 24 | KED |
| Y | 89 | | ug/L | | | 297640 | 301555 | 1 | Standard |
| Kr | 83 | | ug/L | | | 48 | 52 | 26 | Standard |
| > In-1 | 115 | | ug/L | | | 8217 | 8547 | 2 | KED |
| Cd | 111 | -0.007 | ug/L | 0.006 | 79 | 4 | 2 | 57 | KED |
| Cd | 114 | 0.007 | ug/L | 0.005 | 65 | 2 | 6 | 43 | KED |
| > In | 115 | | ug/L | | | 413136 | 423762 | 0 | Standard |
| Ag | 107 | -0.002 | ug/L | 0.000 | 18 | 89 | 67 | 7 | Standard |
| Ba | 135 | 0.048 | ug/L | 0.003 | 6 | 37 | 210 | 5 | Standard |
| Ba | 137 | 0.050 | ug/L | 0.002 | 3 | 46 | 360 | 3 | Standard |
| > Tb | 159 | | ug/L | | | 720127 | 717516 | 1 | Standard |
| Pb | 208 | 0.003 | ug/L | 0.000 | 15 | 200 | 327 | 6 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **BLD0180-BS1**

Sample Dil Factor:

Comments:

Sample Date/Time: **Friday, April 07, 2023 16:32:40**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|---------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30728 | 43066 | 0 | Standard |
| Cl | 37 | | ug/L | | | 4438068 | 4539114 | 0 | Standard |
| > Sc | 45 | | ug/L | | | 546109 | 565807 | 1 | Standard |
| Cr | 52 | 25.748 | ug/L | 0.801 | 3 | 17159 | 495453 | 1 | Standard |
| Cr | 53 | 25.352 | ug/L | 0.399 | 1 | 216 | 54517 | 0 | Standard |
| Mn | 55 | 25.425 | ug/L | 0.522 | 2 | 1132 | 663680 | 0 | Standard |
| > Ge | 72 | | ug/L | | | 29835 | 30399 | 1 | KED |
| Ni | 60 | 25.464 | ug/L | 0.193 | 0 | 138 | 29541 | 1 | KED |
| Ni | 62 | 24.902 | ug/L | 0.431 | 1 | 33 | 4721 | 1 | KED |
| Cu | 63 | 25.403 | ug/L | 0.752 | 2 | 80 | 85576 | 1 | KED |
| Cu | 65 | 25.783 | ug/L | 0.130 | 0 | 24 | 42886 | 1 | KED |
| Zn | 66 | 84.758 | ug/L | 3.569 | 4 | 43 | 36162 | 2 | KED |
| Zn | 67 | 77.500 | ug/L | 1.469 | 1 | 3 | 5500 | 0 | KED |
| As | 75 | 25.216 | ug/L | 0.316 | 1 | 16 | 5616 | 1 | KED |
| Se | 78 | 80.139 | ug/L | 3.251 | 4 | 19 | 2017 | 2 | KED |
| Y | 89 | | ug/L | | | 297640 | 307544 | 1 | Standard |
| Kr | 83 | | ug/L | | | 48 | 54 | 21 | Standard |
| > In-1 | 115 | | ug/L | | | 8217 | 8465 | 3 | KED |
| Cd | 111 | 25.351 | ug/L | 0.738 | 2 | 4 | 6338 | 0 | KED |
| Cd | 114 | 25.442 | ug/L | 0.609 | 2 | 2 | 15646 | 1 | KED |
| > In | 115 | | ug/L | | | 413136 | 424149 | 2 | Standard |
| Ag | 107 | 26.002 | ug/L | 0.643 | 2 | 89 | 367568 | 1 | Standard |
| Ba | 135 | 26.011 | ug/L | 0.317 | 1 | 37 | 92249 | 1 | Standard |
| Ba | 137 | 25.650 | ug/L | 0.267 | 1 | 46 | 161448 | 1 | Standard |
| > Tb | 159 | | ug/L | | | 720127 | 732910 | 1 | Standard |
| Pb | 208 | 25.481 | ug/L | 0.678 | 2 | 200 | 1156665 | 0 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23D0087-01**

Sample Dil Factor: **2**

Comments:

Sample Date/Time: **Friday, April 07, 2023 16:40:54**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|---------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30728 | 41612 | 3 | Standard |
| Cl | 37 | | ug/L | | | 4438068 | 4677097 | 0 | Standard |
| > Sc | 45 | | ug/L | | | 546109 | 548583 | 2 | Standard |
| Cr | 52 | 0.147 | ug/L | 0.019 | 12 | 17159 | 19873 | 1 | Standard |
| Cr | 53 | 0.111 | ug/L | 0.007 | 6 | 216 | 449 | 5 | Standard |
| Mn | 55 | 11.718 | ug/L | 0.420 | 3 | 1132 | 297108 | 1 | Standard |
| > Ge | 72 | | ug/L | | | 29835 | 31456 | 0 | KED |
| Ni | 60 | 0.468 | ug/L | 0.043 | 9 | 138 | 704 | 6 | KED |
| Ni | 62 | 0.437 | ug/L | 0.080 | 18 | 33 | 120 | 13 | KED |
| Cu | 63 | 4.180 | ug/L | 0.039 | 0 | 80 | 14648 | 1 | KED |
| Cu | 65 | 4.198 | ug/L | 0.146 | 3 | 24 | 7245 | 2 | KED |
| Zn | 66 | 1.988 | ug/L | 0.068 | 3 | 43 | 922 | 2 | KED |
| Zn | 67 | 1.883 | ug/L | 0.093 | 4 | 3 | 142 | 4 | KED |
| As | 75 | 0.007 | ug/L | 0.029 | 407 | 16 | 18 | 35 | KED |
| Se | 78 | -0.092 | ug/L | 0.162 | 176 | 19 | 18 | 22 | KED |
| Y | 89 | | ug/L | | | 297640 | 310718 | 0 | Standard |
| Kr | 83 | | ug/L | | | 48 | 57 | 8 | Standard |
| > In-1 | 115 | | ug/L | | | 8217 | 8601 | 1 | KED |
| Cd | 111 | -0.002 | ug/L | 0.007 | 339 | 4 | 3 | 43 | KED |
| Cd | 114 | 0.006 | ug/L | 0.002 | 29 | 2 | 6 | 16 | KED |
| > In | 115 | | ug/L | | | 413136 | 425290 | 2 | Standard |
| Ag | 107 | -0.002 | ug/L | 0.001 | 41 | 89 | 67 | 14 | Standard |
| Ba | 135 | 1.215 | ug/L | 0.028 | 2 | 37 | 4356 | 2 | Standard |
| Ba | 137 | 1.199 | ug/L | 0.014 | 1 | 46 | 7612 | 1 | Standard |
| > Tb | 159 | | ug/L | | | 720127 | 724330 | 0 | Standard |
| Pb | 208 | 0.014 | ug/L | 0.001 | 9 | 200 | 848 | 6 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23D0001-01**

Sample Dil Factor:

Comments:

Sample Date/Time: **Friday, April 07, 2023 16:50:22**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30728 | 59036 | 1 | Standard |
| Cl | 37 | | ug/L | | | 4438068 | 4513825 | 1 | Standard |
| [> Sc | 45 | | ug/L | | | 546109 | 566898 | 1 | Standard |
| Cr | 52 | 1.072 | ug/L | 0.025 | 2 | 17159 | 37744 | 0 | Standard |
| Cr | 53 | 1.080 | ug/L | 0.007 | 0 | 216 | 2543 | 2 | Standard |
| Mn | 55 | 30.137 | ug/L | 0.705 | 2 | 1132 | 788028 | 1 | Standard |
| [> Ge | 72 | | ug/L | | | 29835 | 30760 | 1 | KED |
| Ni | 60 | 0.877 | ug/L | 0.025 | 2 | 138 | 1167 | 2 | KED |
| Ni | 62 | 0.831 | ug/L | 0.040 | 4 | 33 | 193 | 4 | KED |
| Cu | 63 | 10.974 | ug/L | 0.291 | 2 | 80 | 37459 | 1 | KED |
| Cu | 65 | 11.000 | ug/L | 0.184 | 1 | 24 | 18527 | 1 | KED |
| Zn | 66 | 153.299 | ug/L | 1.070 | 0 | 43 | 66171 | 0 | KED |
| Zn | 67 | 139.493 | ug/L | 1.494 | 1 | 3 | 10016 | 0 | KED |
| As | 75 | 0.323 | ug/L | 0.015 | 4 | 16 | 89 | 3 | KED |
| Se | 78 | -0.026 | ug/L | 0.242 | 947 | 19 | 19 | 31 | KED |
| Y | 89 | | ug/L | | | 297640 | 320336 | 1 | Standard |
| Kr | 83 | | ug/L | | | 48 | 52 | 32 | Standard |
| [> In-1 | 115 | | ug/L | | | 8217 | 8606 | 0 | KED |
| Cd | 111 | 0.083 | ug/L | 0.046 | 55 | 4 | 25 | 45 | KED |
| Cd | 114 | 0.108 | ug/L | 0.008 | 7 | 2 | 69 | 6 | KED |
| [> In | 115 | | ug/L | | | 413136 | 430522 | 1 | Standard |
| Ag | 107 | 0.028 | ug/L | 0.001 | 4 | 89 | 488 | 4 | Standard |
| Ba | 135 | 20.189 | ug/L | 0.450 | 2 | 37 | 72678 | 0 | Standard |
| Ba | 137 | 20.370 | ug/L | 0.591 | 2 | 46 | 130131 | 1 | Standard |
| [> Tb | 159 | | ug/L | | | 720127 | 721457 | 0 | Standard |
| Pb | 208 | 1.023 | ug/L | 0.008 | 0 | 200 | 45928 | 0 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23C0770-01**

Sample Dil Factor: **20**

Comments:

Sample Date/Time: **Friday, April 07, 2023 16:57:41**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|-----------|------|---------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30728 | 34992 | 1 | Standard |
| Cl | 37 | | ug/L | | | 4438068 | 29491923 | 0 | Standard |
| [> Sc | 45 | | ug/L | | | 546109 | 509689 | 2 | Standard |
| Cr | 52 | 0.570 | ug/L | 0.040 | 7 | 17159 | 25526 | 0 | Standard |
| Cr | 53 | 18.890 | ug/L | 0.103 | 0 | 216 | 36647 | 1 | Standard |
| Mn | 55 | 0.435 | ug/L | 0.012 | 2 | 1132 | 11274 | 0 | Standard |
| [> Ge | 72 | | ug/L | | | 29835 | 24910 | 1 | KED |
| Ni | 60 | -0.044 | ug/L | 0.008 | 18 | 138 | 74 | 9 | KED |
| Ni | 62 | 0.869 | ug/L | 0.117 | 13 | 33 | 161 | 9 | KED |
| Cu | 63 | 0.161 | ug/L | 0.006 | 3 | 80 | 512 | 2 | KED |
| Cu | 65 | 0.112 | ug/L | 0.012 | 10 | 24 | 173 | 10 | KED |
| Zn | 66 | 0.173 | ug/L | 0.012 | 7 | 43 | 96 | 6 | KED |
| Zn | 67 | 0.361 | ug/L | 0.089 | 24 | 3 | 24 | 19 | KED |
| As | 75 | 0.097 | ug/L | 0.014 | 14 | 16 | 31 | 7 | KED |
| Se | 78 | 0.324 | ug/L | 0.082 | 25 | 19 | 23 | 8 | KED |
| Y | 89 | | ug/L | | | 297640 | 272605 | 2 | Standard |
| Kr | 83 | | ug/L | | | 48 | 1158 | 5 | Standard |
| [> In-1 | 115 | | ug/L | | | 8217 | 6968 | 2 | KED |
| Cd | 111 | 0.008 | ug/L | 0.006 | 76 | 4 | 5 | 21 | KED |
| Cd | 114 | 0.008 | ug/L | 0.004 | 49 | 2 | 6 | 34 | KED |
| [> In | 115 | | ug/L | | | 413136 | 349164 | 1 | Standard |
| Ag | 107 | -0.001 | ug/L | 0.001 | 113 | 89 | 68 | 12 | Standard |
| Ba | 135 | 0.585 | ug/L | 0.026 | 4 | 37 | 1738 | 4 | Standard |
| Ba | 137 | 0.599 | ug/L | 0.003 | 0 | 46 | 3144 | 1 | Standard |
| [> Tb | 159 | | ug/L | | | 720127 | 659554 | 1 | Standard |
| Pb | 208 | 0.006 | ug/L | 0.000 | 6 | 200 | 447 | 3 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23C0539-01RE1**

Sample Dil Factor: **5**

Comments:

Sample Date/Time: **Friday, April 07, 2023 17:06:49**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30728 | 35337 | 1 | Standard |
| Cl | 37 | | ug/L | | | 4438068 | 4491043 | 0 | Standard |
| > Sc | 45 | | ug/L | | | 546109 | 552201 | 0 | Standard |
| Cr | 52 | 0.005 | ug/L | 0.015 | 310 | 17159 | 17440 | 2 | Standard |
| Cr | 53 | 0.236 | ug/L | 0.006 | 2 | 216 | 712 | 0 | Standard |
| Mn | 55 | 34.435 | ug/L | 0.703 | 2 | 1132 | 877161 | 2 | Standard |
| > Ge | 72 | | ug/L | | | 29835 | 30551 | 0 | KED |
| Ni | 60 | -0.053 | ug/L | 0.013 | 24 | 138 | 80 | 19 | KED |
| Ni | 62 | -0.091 | ug/L | 0.037 | 40 | 33 | 17 | 40 | KED |
| Cu | 63 | 0.010 | ug/L | 0.007 | 66 | 80 | 116 | 19 | KED |
| Cu | 65 | 0.031 | ug/L | 0.011 | 35 | 24 | 77 | 23 | KED |
| Zn | 66 | 0.110 | ug/L | 0.020 | 18 | 43 | 91 | 9 | KED |
| Zn | 67 | 5.671 | ug/L | 0.350 | 6 | 3 | 408 | 6 | KED |
| As | 75 | -0.005 | ug/L | 0.003 | 57 | 16 | 15 | 4 | KED |
| Se | 78 | -0.118 | ug/L | 0.053 | 45 | 19 | 17 | 7 | KED |
| Y | 89 | | ug/L | | | 297640 | 298775 | 3 | Standard |
| Kr | 83 | | ug/L | | | 48 | 50 | 22 | Standard |
| > In-1 | 115 | | ug/L | | | 8217 | 8378 | 1 | KED |
| Cd | 111 | 0.004 | ug/L | 0.004 | 123 | 4 | 5 | 21 | KED |
| Cd | 114 | 0.004 | ug/L | 0.002 | 46 | 2 | 4 | 22 | KED |
| > In | 115 | | ug/L | | | 413136 | 412295 | 1 | Standard |
| Ag | 107 | -0.002 | ug/L | 0.001 | 24 | 89 | 57 | 12 | Standard |
| Ba | 135 | 57.744 | ug/L | 1.516 | 2 | 37 | 199005 | 1 | Standard |
| Ba | 137 | 57.627 | ug/L | 0.699 | 1 | 46 | 352534 | 1 | Standard |
| > Tb | 159 | | ug/L | | | 720127 | 714623 | 1 | Standard |
| Pb | 208 | 0.000 | ug/L | 0.000 | 75 | 200 | 213 | 5 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **BLD0101-DUP3**

Sample Dil Factor: **5**

Comments:

Sample Date/Time: **Friday, April 07, 2023 17:11:39**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30728 | 36395 | 1 | Standard |
| Cl | 37 | | ug/L | | | 4438068 | 4545602 | 1 | Standard |
| > Sc | 45 | | ug/L | | | 546109 | 551673 | 1 | Standard |
| Cr | 52 | -0.012 | ug/L | 0.012 | 98 | 17159 | 17114 | 0 | Standard |
| Cr | 53 | 0.131 | ug/L | 0.004 | 3 | 216 | 491 | 0 | Standard |
| Mn | 55 | 33.282 | ug/L | 0.624 | 1 | 1132 | 846749 | 0 | Standard |
| > Ge | 72 | | ug/L | | | 29835 | 29989 | 1 | KED |
| Ni | 60 | -0.043 | ug/L | 0.014 | 32 | 138 | 89 | 17 | KED |
| Ni | 62 | -0.056 | ug/L | 0.024 | 42 | 33 | 23 | 20 | KED |
| Cu | 63 | 0.003 | ug/L | 0.005 | 188 | 80 | 89 | 16 | KED |
| Cu | 65 | 0.022 | ug/L | 0.004 | 16 | 24 | 60 | 11 | KED |
| Zn | 66 | 0.087 | ug/L | 0.021 | 24 | 43 | 80 | 12 | KED |
| Zn | 67 | 5.771 | ug/L | 0.100 | 1 | 3 | 407 | 1 | KED |
| As | 75 | -0.010 | ug/L | 0.011 | 111 | 16 | 14 | 15 | KED |
| Se | 78 | -0.045 | ug/L | 0.084 | 186 | 19 | 18 | 12 | KED |
| Y | 89 | | ug/L | | | 297640 | 304207 | 2 | Standard |
| Kr | 83 | | ug/L | | | 48 | 45 | 4 | Standard |
| > In-1 | 115 | | ug/L | | | 8217 | 8066 | 3 | KED |
| Cd | 111 | 0.006 | ug/L | 0.009 | 156 | 4 | 5 | 36 | KED |
| Cd | 114 | 0.002 | ug/L | 0.003 | 134 | 2 | 3 | 49 | KED |
| > In | 115 | | ug/L | | | 413136 | 414333 | 2 | Standard |
| Ag | 107 | -0.003 | ug/L | 0.000 | 13 | 89 | 42 | 16 | Standard |
| Ba | 135 | 55.567 | ug/L | 1.137 | 2 | 37 | 192430 | 0 | Standard |
| Ba | 137 | 55.900 | ug/L | 0.968 | 1 | 46 | 343595 | 1 | Standard |
| > Tb | 159 | | ug/L | | | 720127 | 704876 | 1 | Standard |
| Pb | 208 | -0.001 | ug/L | 0.000 | 21 | 200 | 170 | 2 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **BLD0101-MS3**

Sample Dil Factor: **5**

Comments:

Sample Date/Time: **Friday, April 07, 2023 17:16:23**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|------------------------------|------|---------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30728 | 35669 | 3 | Standard |
| Cl | 37 | | ug/L | | | 4438068 | 4563265 | 1 | Standard |
| [> Sc | 45 | | ug/L | | | 546109 | 535132 | 1 | Standard |
| Cr | 52 | 5.488 | ug/L | 0.112 | 2 | 17159 | 113121 | 0 | Standard |
| Cr | 53 | 5.639 | ug/L | 0.104 | 1 | 216 | 11634 | 1 | Standard |
| Mn | 55 | 37.671 | ug/L | 0.292 | 0 | 1132 | 929648 | 1 | Standard |
| [> Ge | 72 | | ug/L | | | 29835 | 29678 | 1 | KED |
| Ni | 60 | 5.157 | ug/L | 0.083 | 1 | 138 | 5950 | 1 | KED |
| Ni | 62 | 5.429 | ug/L | 0.488 | 8 | 33 | 1031 | 8 | KED |
| Cu | 63 | 5.440 | ug/L | 0.095 | 1 | 80 | 17960 | 2 | KED |
| Cu | 65 | 5.542 | ug/L | 0.099 | 1 | 24 | 9018 | 1 | KED |
| Zn | 66 | 17.637 | ug/L | 0.379 | 2 | 43 | 7382 | 1 | KED |
| Zn | 67 | 21.698 | ug/L | 0.451 | 2 | 3 | 1506 | 3 | KED |
| As | 75 | 5.636 | ug/L | 0.098 | 1 | 16 | 1238 | 2 | KED |
| [Se | 78 | 17.296 | ug/L | 0.164 | 0 | 19 | 440 | 0 | KED |
| Y | 89 | | ug/L | | | 297640 | 295038 | 1 | Standard |
| Kr | 83 | | ug/L | | | 48 | 52 | 13 | Standard |
| [> In-1 | 115 | | ug/L | | | 8217 | 8286 | 0 | KED |
| Cd | 111 | 5.356 | ug/L | 0.215 | 4 | 4 | 1314 | 4 | KED |
| Cd | 114 | 5.449 | ug/L | 0.155 | 2 | 2 | 3283 | 2 | KED |
| [> In | 115 | | ug/L | | | 413136 | 405532 | 0 | Standard |
| Ag | 107 | 5.597 | ug/L | 0.048 | 0 | 89 | 75743 | 1 | Standard |
| Ba <small>STL</small> | 135 | 61.114 | ug/L | 0.288 | 0 | 37 | 207211 | 0 | Standard |
| Ba | 137 | 59.485 | ug/L | 0.929 | 1 | 46 | 357975 | 1 | Standard |
| [> Tb | 159 | | ug/L | | | 720127 | 708193 | 2 | Standard |
| [Pb | 208 | 5.415 | ug/L | 0.098 | 1 | 200 | 237675 | 0 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **BLD0101-MSD3**

Sample Dil Factor: **5**

Comments:

Sample Date/Time: **Friday, April 07, 2023 17:21:06**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|------------------------------|------|---------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30728 | 36105 | 1 | Standard |
| Cl | 37 | | ug/L | | | 4438068 | 4486261 | 0 | Standard |
| [> Sc | 45 | | ug/L | | | 546109 | 529193 | 3 | Standard |
| Cr | 52 | 5.509 | ug/L | 0.073 | 1 | 17159 | 112227 | 2 | Standard |
| Cr | 53 | 5.627 | ug/L | 0.108 | 1 | 216 | 11478 | 2 | Standard |
| Mn | 55 | 38.860 | ug/L | 0.107 | 0 | 1132 | 948347 | 2 | Standard |
| [> Ge | 72 | | ug/L | | | 29835 | 29374 | 1 | KED |
| Ni | 60 | 5.298 | ug/L | 0.109 | 2 | 138 | 6046 | 1 | KED |
| Ni | 62 | 5.398 | ug/L | 0.273 | 5 | 33 | 1014 | 4 | KED |
| Cu | 63 | 5.423 | ug/L | 0.287 | 5 | 80 | 17718 | 5 | KED |
| Cu | 65 | 5.473 | ug/L | 0.143 | 2 | 24 | 8815 | 3 | KED |
| Zn | 66 | 17.820 | ug/L | 0.546 | 3 | 43 | 7380 | 1 | KED |
| Zn | 67 | 21.997 | ug/L | 0.469 | 2 | 3 | 1511 | 3 | KED |
| As | 75 | 5.458 | ug/L | 0.121 | 2 | 16 | 1187 | 1 | KED |
| Se | 78 | 18.050 | ug/L | 0.694 | 3 | 19 | 454 | 1 | KED |
| Y | 89 | | ug/L | | | 297640 | 289805 | 2 | Standard |
| Kr | 83 | | ug/L | | | 48 | 48 | 19 | Standard |
| [> In-1 | 115 | | ug/L | | | 8217 | 8181 | 2 | KED |
| Cd | 111 | 5.464 | ug/L | 0.246 | 4 | 4 | 1323 | 1 | KED |
| Cd | 114 | 5.406 | ug/L | 0.278 | 5 | 2 | 3214 | 4 | KED |
| [> In | 115 | | ug/L | | | 413136 | 408280 | 3 | Standard |
| Ag | 107 | 5.461 | ug/L | 0.061 | 1 | 89 | 74405 | 3 | Standard |
| Ba <small>STL</small> | 135 | 60.755 | ug/L | 1.314 | 2 | 37 | 207293 | 1 | Standard |
| Ba | 137 | 60.426 | ug/L | 1.228 | 2 | 46 | 365943 | 1 | Standard |
| [> Tb | 159 | | ug/L | | | 720127 | 700400 | 4 | Standard |
| Pb | 208 | 5.426 | ug/L | 0.145 | 2 | 200 | 235445 | 1 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL4

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, April 07, 2023 17:25:51

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30728 | 33050 | 2 | Standard |
| Cl | 37 | | ug/L | | | 4438068 | 4431282 | 1 | Standard |
| [> Sc | 45 | | ug/L | | | 546109 | 497176 | 3 | Standard |
| Cr | 52 | 0.037 | ug/L | 0.023 | 63 | 17159 | 16208 | 1 | Standard |
| Cr | 53 | 0.052 | ug/L | 0.014 | 27 | 216 | 294 | 7 | Standard |
| Mn | 55 | -0.007 | ug/L | 0.007 | 97 | 1132 | 857 | 16 | Standard |
| [> Ge | 72 | | ug/L | | | 29835 | 28780 | 1 | KED |
| Ni | 60 | -0.097 | ug/L | 0.009 | 9 | 138 | 27 | 33 | KED |
| Ni | 62 | -0.132 | ug/L | 0.031 | 23 | 33 | 8 | 61 | KED |
| Cu | 63 | -0.005 | ug/L | 0.004 | 66 | 80 | 60 | 19 | KED |
| Cu | 65 | 0.002 | ug/L | 0.005 | 229 | 24 | 27 | 29 | KED |
| Zn | 66 | -0.045 | ug/L | 0.007 | 15 | 43 | 23 | 12 | KED |
| Zn | 67 | -0.007 | ug/L | 0.017 | 223 | 3 | 3 | 34 | KED |
| As | 75 | -0.044 | ug/L | 0.001 | 2 | 16 | 6 | 4 | KED |
| Se | 78 | -0.064 | ug/L | 0.075 | 116 | 19 | 17 | 10 | KED |
| Y | 89 | | ug/L | | | 297640 | 281848 | 1 | Standard |
| Kr | 83 | | ug/L | | | 48 | 57 | 10 | Standard |
| [> In-1 | 115 | | ug/L | | | 8217 | 7817 | 2 | KED |
| Cd | 111 | -0.003 | ug/L | 0.009 | 275 | 4 | 3 | 69 | KED |
| Cd | 114 | 0.001 | ug/L | 0.007 | 478 | 2 | 3 | 129 | KED |
| [> In | 115 | | ug/L | | | 413136 | 394647 | 1 | Standard |
| Ag | 107 | -0.003 | ug/L | 0.001 | 24 | 89 | 43 | 24 | Standard |
| Ba | 135 | 0.002 | ug/L | 0.007 | 287 | 37 | 43 | 52 | Standard |
| Ba | 137 | 0.007 | ug/L | 0.006 | 87 | 46 | 82 | 41 | Standard |
| [> Tb | 159 | | ug/L | | | 720127 | 668588 | 1 | Standard |
| Pb | 208 | -0.001 | ug/L | 0.001 | 69 | 200 | 125 | 30 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV4

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, April 07, 2023 17:30:35

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30728 | 30208 | 2 | Standard |
| Cl | 37 | | ug/L | | | 4438068 | 4549164 | 2 | Standard |
| [> Sc | 45 | | ug/L | | | 546109 | 536301 | 1 | Standard |
| Cr | 52 | 49.909 | ug/L | 0.562 | 1 | 17159 | 894754 | 1 | Standard |
| Cr | 53 | 51.385 | ug/L | 0.597 | 1 | 216 | 104544 | 2 | Standard |
| Mn | 55 | 50.893 | ug/L | 1.270 | 2 | 1132 | 1258690 | 3 | Standard |
| [> Ge | 72 | | ug/L | | | 29835 | 29985 | 0 | KED |
| Ni | 60 | 48.242 | ug/L | 1.068 | 2 | 138 | 55085 | 2 | KED |
| Ni | 62 | 48.171 | ug/L | 1.009 | 2 | 33 | 8978 | 2 | KED |
| Cu | 63 | 48.501 | ug/L | 1.144 | 2 | 80 | 161137 | 2 | KED |
| Cu | 65 | 49.402 | ug/L | 0.413 | 0 | 24 | 81033 | 1 | KED |
| Zn | 66 | 49.498 | ug/L | 0.516 | 1 | 43 | 20857 | 1 | KED |
| Zn | 67 | 50.520 | ug/L | 1.753 | 3 | 3 | 3538 | 3 | KED |
| As | 75 | 49.272 | ug/L | 0.264 | 0 | 16 | 10810 | 0 | KED |
| [Se | 78 | 49.217 | ug/L | 0.715 | 1 | 19 | 1230 | 1 | KED |
| Y | 89 | | ug/L | | | 297640 | 303337 | 4 | Standard |
| Kr | 83 | | ug/L | | | 48 | 51 | 32 | Standard |
| [> In-1 | 115 | | ug/L | | | 8217 | 8187 | 3 | KED |
| Cd | 111 | 50.126 | ug/L | 1.481 | 2 | 4 | 12118 | 2 | KED |
| Cd | 114 | 49.639 | ug/L | 0.188 | 0 | 2 | 29535 | 3 | KED |
| [> In | 115 | | ug/L | | | 413136 | 405614 | 0 | Standard |
| Ag | 107 | 52.127 | ug/L | 2.285 | 4 | 89 | 704864 | 4 | Standard |
| Ba | 135 | 51.126 | ug/L | 0.114 | 0 | 37 | 173389 | 1 | Standard |
| [Ba | 137 | 51.403 | ug/L | 0.595 | 1 | 46 | 309378 | 0 | Standard |
| [> Tb | 159 | | ug/L | | | 720127 | 716504 | 0 | Standard |
| [Pb | 208 | 48.968 | ug/L | 0.658 | 1 | 200 | 2173564 | 1 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB4

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, April 07, 2023 17:38:04

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30728 | 30233 | 0 | Standard |
| Cl | 37 | | ug/L | | | 4438068 | 4339894 | 1 | Standard |
| [> Sc | 45 | | ug/L | | | 546109 | 502391 | 1 | Standard |
| Cr | 52 | 0.007 | ug/L | 0.035 | 471 | 17159 | 15899 | 1 | Standard |
| Cr | 53 | 0.028 | ug/L | 0.002 | 6 | 216 | 253 | 3 | Standard |
| Mn | 55 | -0.012 | ug/L | 0.002 | 14 | 1132 | 775 | 3 | Standard |
| [> Ge | 72 | | ug/L | | | 29835 | 28858 | 1 | KED |
| Ni | 60 | -0.090 | ug/L | 0.010 | 10 | 138 | 34 | 31 | KED |
| Ni | 62 | -0.122 | ug/L | 0.016 | 13 | 33 | 10 | 26 | KED |
| Cu | 63 | -0.003 | ug/L | 0.003 | 85 | 80 | 67 | 11 | KED |
| Cu | 65 | 0.005 | ug/L | 0.005 | 84 | 24 | 32 | 20 | KED |
| Zn | 66 | -0.034 | ug/L | 0.018 | 53 | 43 | 27 | 28 | KED |
| Zn | 67 | 0.002 | ug/L | 0.028 | 1444 | 3 | 3 | 50 | KED |
| As | 75 | -0.044 | ug/L | 0.002 | 3 | 16 | 6 | 4 | KED |
| [Se | 78 | -0.088 | ug/L | 0.066 | 74 | 19 | 17 | 8 | KED |
| Y | 89 | | ug/L | | | 297640 | 284795 | 0 | Standard |
| Kr | 83 | | ug/L | | | 48 | 45 | 23 | Standard |
| [> In-1 | 115 | | ug/L | | | 8217 | 8086 | 0 | KED |
| Cd | 111 | 0.004 | ug/L | 0.002 | 54 | 4 | 5 | 10 | KED |
| Cd | 114 | 0.000 | ug/L | 0.005 | 8713 | 2 | 2 | 126 | KED |
| [> In | 115 | | ug/L | | | 413136 | 394276 | 1 | Standard |
| Ag | 107 | -0.002 | ug/L | 0.001 | 78 | 89 | 60 | 31 | Standard |
| Ba | 135 | -0.006 | ug/L | 0.001 | 19 | 37 | 15 | 25 | Standard |
| [Ba | 137 | -0.001 | ug/L | 0.001 | 44 | 46 | 36 | 10 | Standard |
| [> Tb | 159 | | ug/L | | | 720127 | 676533 | 0 | Standard |
| [Pb | 208 | 0.001 | ug/L | 0.001 | 83 | 200 | 213 | 9 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **BLD0055-BLK1**

Sample Dil Factor: **20**

Comments:

Sample Date/Time: **Friday, April 07, 2023 17:46:21**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|---------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30728 | 40998 | 3 | Standard |
| Cl | 37 | | ug/L | | | 4438068 | 4375531 | 1 | Standard |
| > Sc | 45 | | ug/L | | | 546109 | 522728 | 1 | Standard |
| Cr | 52 | 0.028 | ug/L | 0.015 | 52 | 17159 | 16911 | 1 | Standard |
| Cr | 53 | 0.023 | ug/L | 0.009 | 36 | 216 | 253 | 5 | Standard |
| Mn | 55 | -0.012 | ug/L | 0.000 | 4 | 1132 | 800 | 1 | Standard |
| > Ge | 72 | | ug/L | | | 29835 | 29468 | 0 | KED |
| Ni | 60 | -0.084 | ug/L | 0.029 | 34 | 138 | 42 | 77 | KED |
| Ni | 62 | -0.123 | ug/L | 0.016 | 13 | 33 | 10 | 26 | KED |
| Cu | 63 | 0.005 | ug/L | 0.010 | 191 | 80 | 97 | 34 | KED |
| Cu | 65 | 0.019 | ug/L | 0.028 | 150 | 24 | 54 | 82 | KED |
| Zn | 66 | 0.098 | ug/L | 0.028 | 28 | 43 | 83 | 13 | KED |
| Zn | 67 | 0.185 | ug/L | 0.057 | 30 | 3 | 16 | 24 | KED |
| As | 75 | -0.041 | ug/L | 0.009 | 21 | 16 | 7 | 26 | KED |
| Se | 78 | -0.075 | ug/L | 0.195 | 260 | 19 | 17 | 26 | KED |
| Y | 89 | | ug/L | | | 297640 | 290009 | 2 | Standard |
| Kr | 83 | | ug/L | | | 48 | 38 | 17 | Standard |
| > In-1 | 115 | | ug/L | | | 8217 | 7928 | 2 | KED |
| Cd | 111 | -0.002 | ug/L | 0.002 | 95 | 4 | 3 | 15 | KED |
| Cd | 114 | 0.000 | ug/L | 0.005 | 1294 | 2 | 2 | 118 | KED |
| > In | 115 | | ug/L | | | 413136 | 413209 | 1 | Standard |
| Ag | 107 | -0.003 | ug/L | 0.001 | 31 | 89 | 50 | 24 | Standard |
| Ba | 135 | 0.018 | ug/L | 0.003 | 17 | 37 | 99 | 12 | Standard |
| Ba | 137 | 0.016 | ug/L | 0.005 | 28 | 46 | 145 | 19 | Standard |
| > Tb | 159 | | ug/L | | | 720127 | 700360 | 0 | Standard |
| Pb | 208 | -0.000 | ug/L | 0.001 | 254 | 200 | 182 | 16 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **BLD0055-BS1**

Sample Dil Factor: **20**

Comments:

Sample Date/Time: **Friday, April 07, 2023 17:51:05**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|---------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30728 | 37539 | 2 | Standard |
| Cl | 37 | | ug/L | | | 4438068 | 4484934 | 1 | Standard |
| > Sc | 45 | | ug/L | | | 546109 | 526769 | 0 | Standard |
| Cr | 52 | 25.997 | ug/L | 0.301 | 1 | 17159 | 465716 | 1 | Standard |
| Cr | 53 | 26.170 | ug/L | 0.391 | 1 | 216 | 52394 | 1 | Standard |
| Mn | 55 | 26.697 | ug/L | 0.585 | 2 | 1132 | 648906 | 2 | Standard |
| > Ge | 72 | | ug/L | | | 29835 | 29528 | 1 | KED |
| Ni | 60 | 25.245 | ug/L | 0.848 | 3 | 138 | 28439 | 1 | KED |
| Ni | 62 | 25.535 | ug/L | 0.782 | 3 | 33 | 4701 | 2 | KED |
| Cu | 63 | 25.908 | ug/L | 0.550 | 2 | 80 | 84786 | 1 | KED |
| Cu | 65 | 26.016 | ug/L | 0.087 | 0 | 24 | 42034 | 1 | KED |
| Zn | 66 | 81.091 | ug/L | 3.492 | 4 | 43 | 33604 | 2 | KED |
| Zn | 67 | 76.116 | ug/L | 1.653 | 2 | 3 | 5247 | 0 | KED |
| As | 75 | 24.657 | ug/L | 0.576 | 2 | 16 | 5334 | 2 | KED |
| Se | 78 | 77.457 | ug/L | 1.373 | 1 | 19 | 1895 | 2 | KED |
| Y | 89 | | ug/L | | | 297640 | 294909 | 2 | Standard |
| Kr | 83 | | ug/L | | | 48 | 53 | 21 | Standard |
| > In-1 | 115 | | ug/L | | | 8217 | 8338 | 2 | KED |
| Cd | 111 | 24.366 | ug/L | 0.419 | 1 | 4 | 6002 | 0 | KED |
| Cd | 114 | 24.273 | ug/L | 0.413 | 1 | 2 | 14707 | 1 | KED |
| > In | 115 | | ug/L | | | 413136 | 409309 | 1 | Standard |
| Ag | 107 | 26.967 | ug/L | 0.558 | 2 | 89 | 367945 | 1 | Standard |
| Ba | 135 | 26.490 | ug/L | 0.382 | 1 | 37 | 90662 | 0 | Standard |
| Ba | 137 | 25.834 | ug/L | 0.764 | 2 | 46 | 156904 | 2 | Standard |
| > Tb | 159 | | ug/L | | | 720127 | 702792 | 2 | Standard |
| Pb | 208 | 26.064 | ug/L | 0.689 | 2 | 200 | 1134367 | 0 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **BLD0123-BLK1**

Sample Dil Factor: **20**

Comments:

Sample Date/Time: **Friday, April 07, 2023 17:55:49**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|---------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30728 | 39637 | 0 | Standard |
| Cl | 37 | | ug/L | | | 4438068 | 4377874 | 1 | Standard |
| > Sc | 45 | | ug/L | | | 546109 | 515290 | 1 | Standard |
| Cr | 52 | 0.030 | ug/L | 0.008 | 26 | 17159 | 16692 | 1 | Standard |
| Cr | 53 | 0.012 | ug/L | 0.006 | 52 | 216 | 228 | 4 | Standard |
| Mn | 55 | -0.011 | ug/L | 0.000 | 3 | 1132 | 807 | 2 | Standard |
| > Ge | 72 | | ug/L | | | 29835 | 29670 | 0 | KED |
| Ni | 60 | -0.096 | ug/L | 0.002 | 1 | 138 | 29 | 7 | KED |
| Ni | 62 | -0.123 | ug/L | 0.016 | 13 | 33 | 10 | 26 | KED |
| Cu | 63 | -0.008 | ug/L | 0.002 | 18 | 80 | 52 | 10 | KED |
| Cu | 65 | 0.006 | ug/L | 0.009 | 154 | 24 | 34 | 43 | KED |
| Zn | 66 | -0.006 | ug/L | 0.021 | 365 | 43 | 40 | 21 | KED |
| Zn | 67 | 0.073 | ug/L | 0.056 | 76 | 3 | 8 | 44 | KED |
| As | 75 | -0.037 | ug/L | 0.010 | 26 | 16 | 8 | 26 | KED |
| Se | 78 | -0.040 | ug/L | 0.164 | 412 | 19 | 18 | 20 | KED |
| Y | 89 | | ug/L | | | 297640 | 288601 | 3 | Standard |
| Kr | 83 | | ug/L | | | 48 | 55 | 21 | Standard |
| > In-1 | 115 | | ug/L | | | 8217 | 8101 | 2 | KED |
| Cd | 111 | 0.003 | ug/L | 0.014 | 503 | 4 | 4 | 72 | KED |
| Cd | 114 | 0.007 | ug/L | 0.003 | 52 | 2 | 6 | 34 | KED |
| > In | 115 | | ug/L | | | 413136 | 394744 | 2 | Standard |
| Ag | 107 | -0.001 | ug/L | 0.001 | 59 | 89 | 66 | 17 | Standard |
| Ba | 135 | 0.027 | ug/L | 0.001 | 4 | 37 | 125 | 0 | Standard |
| Ba | 137 | 0.032 | ug/L | 0.002 | 5 | 46 | 229 | 3 | Standard |
| > Tb | 159 | | ug/L | | | 720127 | 688433 | 1 | Standard |
| Pb | 208 | 0.000 | ug/L | 0.001 | 175 | 200 | 208 | 14 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **BLD0123-BS1**

Sample Dil Factor: **20**

Comments:

Sample Date/Time: **Friday, April 07, 2023 18:00:33**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|---------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30728 | 38240 | 2 | Standard |
| Cl | 37 | | ug/L | | | 4438068 | 4410233 | 1 | Standard |
| > Sc | 45 | | ug/L | | | 546109 | 520560 | 1 | Standard |
| Cr | 52 | 26.914 | ug/L | 0.331 | 1 | 17159 | 475804 | 0 | Standard |
| Cr | 53 | 26.857 | ug/L | 0.379 | 1 | 216 | 53125 | 1 | Standard |
| Mn | 55 | 26.896 | ug/L | 0.533 | 1 | 1132 | 645902 | 1 | Standard |
| > Ge | 72 | | ug/L | | | 29835 | 29432 | 1 | KED |
| Ni | 60 | 24.861 | ug/L | 0.245 | 0 | 138 | 27926 | 0 | KED |
| Ni | 62 | 25.353 | ug/L | 0.145 | 0 | 33 | 4654 | 1 | KED |
| Cu | 63 | 26.097 | ug/L | 0.233 | 0 | 80 | 85147 | 2 | KED |
| Cu | 65 | 25.487 | ug/L | 0.736 | 2 | 24 | 41037 | 1 | KED |
| Zn | 66 | 78.791 | ug/L | 2.494 | 3 | 43 | 32555 | 2 | KED |
| Zn | 67 | 74.527 | ug/L | 1.802 | 2 | 3 | 5121 | 1 | KED |
| As | 75 | 24.852 | ug/L | 0.470 | 1 | 16 | 5359 | 1 | KED |
| Se | 78 | 74.905 | ug/L | 1.159 | 1 | 19 | 1827 | 0 | KED |
| Y | 89 | | ug/L | | | 297640 | 286453 | 0 | Standard |
| Kr | 83 | | ug/L | | | 48 | 45 | 12 | Standard |
| > In-1 | 115 | | ug/L | | | 8217 | 8111 | 1 | KED |
| Cd | 111 | 25.034 | ug/L | 0.196 | 0 | 4 | 6001 | 2 | KED |
| Cd | 114 | 25.207 | ug/L | 0.830 | 3 | 2 | 14855 | 1 | KED |
| > In | 115 | | ug/L | | | 413136 | 405253 | 1 | Standard |
| Ag | 107 | 27.780 | ug/L | 0.411 | 1 | 89 | 375292 | 1 | Standard |
| Ba | 135 | 26.713 | ug/L | 0.157 | 0 | 37 | 90527 | 1 | Standard |
| Ba | 137 | 25.934 | ug/L | 0.909 | 3 | 46 | 155936 | 2 | Standard |
| > Tb | 159 | | ug/L | | | 720127 | 692548 | 2 | Standard |
| Pb | 208 | 26.598 | ug/L | 0.605 | 2 | 200 | 1140760 | 0 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23A0179-01**

Sample Dil Factor: **20**

Comments:

Sample Date/Time: **Friday, April 07, 2023 18:05:16**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30728 | 52767 | 0 | Standard |
| Cl | 37 | | ug/L | | | 4438068 | 4428302 | 1 | Standard |
| > Sc | 45 | | ug/L | | | 546109 | 636512 | 0 | Standard |
| Cr | 52 | 13.994 | ug/L | 0.123 | 0 | 17159 | 312157 | 0 | Standard |
| Cr | 53 | 14.376 | ug/L | 0.225 | 1 | 216 | 34893 | 1 | Standard |
| Mn | 55 | 149.238 | ug/L | 2.113 | 1 | 1132 | 4377017 | 1 | Standard |
| > Ge | 72 | | ug/L | | | 29835 | 30014 | 2 | KED |
| Ni | 60 | 11.515 | ug/L | 0.442 | 3 | 138 | 13259 | 1 | KED |
| Ni | 62 | 12.056 | ug/L | 0.190 | 1 | 33 | 2274 | 2 | KED |
| Cu | 63 | 23.397 | ug/L | 0.805 | 3 | 80 | 77816 | 1 | KED |
| Cu | 65 | 23.061 | ug/L | 0.146 | 0 | 24 | 37872 | 1 | KED |
| Zn | 66 | 47.762 | ug/L | 1.511 | 3 | 43 | 20144 | 3 | KED |
| Zn | 67 | 45.387 | ug/L | 2.460 | 5 | 3 | 3180 | 3 | KED |
| As | 75 | 5.309 | ug/L | 0.056 | 1 | 16 | 1180 | 2 | KED |
| Se | 78 | 0.990 | ug/L | 0.246 | 24 | 19 | 44 | 11 | KED |
| Y | 89 | | ug/L | | | 297640 | 520851 | 3 | Standard |
| Kr | 83 | | ug/L | | | 48 | 105 | 15 | Standard |
| > In-1 | 115 | | ug/L | | | 8217 | 8078 | 1 | KED |
| Cd | 111 | 0.127 | ug/L | 0.015 | 11 | 4 | 34 | 9 | KED |
| Cd | 114 | 0.123 | ug/L | 0.027 | 21 | 2 | 74 | 21 | KED |
| > In | 115 | | ug/L | | | 413136 | 408018 | 0 | Standard |
| Ag | 107 | 0.102 | ug/L | 0.004 | 3 | 89 | 1470 | 4 | Standard |
| Ba | 135 | 27.753 | ug/L | 0.348 | 1 | 37 | 94688 | 0 | Standard |
| Ba | 137 | 27.631 | ug/L | 0.214 | 0 | 46 | 167323 | 1 | Standard |
| > Tb | 159 | | ug/L | | | 720127 | 723308 | 0 | Standard |
| Pb | 208 | 12.019 | ug/L | 0.047 | 0 | 200 | 538699 | 0 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **BLD0055-DUP1**

Sample Dil Factor: **20**

Comments:

Sample Date/Time: **Friday, April 07, 2023 18:10:00**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30728 | 56036 | 1 | Standard |
| Cl | 37 | | ug/L | | | 4438068 | 4364762 | 0 | Standard |
| > Sc | 45 | | ug/L | | | 546109 | 641955 | 0 | Standard |
| Cr | 52 | 12.982 | ug/L | 0.157 | 1 | 17159 | 293496 | 0 | Standard |
| Cr | 53 | 13.146 | ug/L | 0.114 | 0 | 216 | 32201 | 0 | Standard |
| Mn | 55 | 145.034 | ug/L | 1.501 | 1 | 1132 | 4289928 | 0 | Standard |
| > Ge | 72 | | ug/L | | | 29835 | 29768 | 1 | KED |
| Ni | 60 | 11.273 | ug/L | 0.288 | 2 | 138 | 12881 | 1 | KED |
| Ni | 62 | 11.517 | ug/L | 0.100 | 0 | 33 | 2156 | 1 | KED |
| Cu | 63 | 22.359 | ug/L | 0.500 | 2 | 80 | 73770 | 0 | KED |
| Cu | 65 | 22.253 | ug/L | 0.582 | 2 | 24 | 36238 | 0 | KED |
| Zn | 66 | 47.882 | ug/L | 1.140 | 2 | 43 | 20026 | 0 | KED |
| Zn | 67 | 45.969 | ug/L | 1.499 | 3 | 3 | 3195 | 1 | KED |
| As | 75 | 5.208 | ug/L | 0.277 | 5 | 16 | 1148 | 3 | KED |
| Se | 78 | 1.100 | ug/L | 0.263 | 23 | 19 | 46 | 11 | KED |
| Y | 89 | | ug/L | | | 297640 | 527449 | 2 | Standard |
| Kr | 83 | | ug/L | | | 48 | 97 | 9 | Standard |
| > In-1 | 115 | | ug/L | | | 8217 | 8246 | 2 | KED |
| Cd | 111 | 0.145 | ug/L | 0.038 | 25 | 4 | 39 | 25 | KED |
| Cd | 114 | 0.137 | ug/L | 0.039 | 28 | 2 | 84 | 28 | KED |
| > In | 115 | | ug/L | | | 413136 | 410053 | 1 | Standard |
| Ag | 107 | 0.100 | ug/L | 0.003 | 2 | 89 | 1459 | 1 | Standard |
| Ba | 135 | 28.542 | ug/L | 0.538 | 1 | 37 | 97852 | 0 | Standard |
| Ba | 137 | 29.049 | ug/L | 0.318 | 1 | 46 | 176790 | 2 | Standard |
| > Tb | 159 | | ug/L | | | 720127 | 732174 | 0 | Standard |
| Pb | 208 | 9.453 | ug/L | 0.117 | 1 | 200 | 428901 | 0 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **BLD0055-MS1**

Sample Dil Factor: **20**

Comments:

Sample Date/Time: **Friday, April 07, 2023 18:14:44**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30728 | 47364 | 0 | Standard |
| Cl | 37 | | ug/L | | | 4438068 | 4332146 | 2 | Standard |
| > Sc | 45 | | ug/L | | | 546109 | 644546 | 1 | Standard |
| Cr | 52 | 34.869 | ug/L | 0.765 | 2 | 17159 | 757223 | 0 | Standard |
| Cr | 53 | 35.113 | ug/L | 0.818 | 2 | 216 | 85922 | 2 | Standard |
| Mn | 55 | 167.927 | ug/L | 3.441 | 2 | 1132 | 4986160 | 0 | Standard |
| > Ge | 72 | | ug/L | | | 29835 | 29623 | 1 | KED |
| Ni | 60 | 37.043 | ug/L | 0.579 | 1 | 138 | 41813 | 1 | KED |
| Ni | 62 | 37.669 | ug/L | 0.961 | 2 | 33 | 6943 | 2 | KED |
| Cu | 63 | 48.418 | ug/L | 1.061 | 2 | 80 | 158897 | 1 | KED |
| Cu | 65 | 47.838 | ug/L | 0.291 | 0 | 24 | 77518 | 1 | KED |
| Zn | 66 | 128.901 | ug/L | 1.525 | 1 | 43 | 53589 | 1 | KED |
| Zn | 67 | 122.003 | ug/L | 3.292 | 2 | 3 | 8436 | 2 | KED |
| As | 75 | 29.862 | ug/L | 0.575 | 1 | 16 | 6477 | 0 | KED |
| Se | 78 | 75.909 | ug/L | 1.002 | 1 | 19 | 1863 | 1 | KED |
| Y | 89 | | ug/L | | | 297640 | 508777 | 2 | Standard |
| Kr | 83 | | ug/L | | | 48 | 108 | 9 | Standard |
| > In-1 | 115 | | ug/L | | | 8217 | 8403 | 1 | KED |
| Cd | 111 | 24.395 | ug/L | 0.561 | 2 | 4 | 6058 | 2 | KED |
| Cd | 114 | 24.393 | ug/L | 0.703 | 2 | 2 | 14894 | 1 | KED |
| > In | 115 | | ug/L | | | 413136 | 406763 | 0 | Standard |
| Ag | 107 | 10.154 | ug/L | 0.102 | 1 | 89 | 137765 | 1 | Standard |
| Ba | 135 | 57.775 | ug/L | 0.995 | 1 | 37 | 196470 | 0 | Standard |
| Ba | 137 | 57.566 | ug/L | 1.113 | 1 | 46 | 347442 | 1 | Standard |
| > Tb | 159 | | ug/L | | | 720127 | 726977 | 0 | Standard |
| Pb | 208 | 35.211 | ug/L | 0.742 | 2 | 200 | 1585629 | 1 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **BLD0055-MSD1**

Sample Dil Factor: **20**

Comments:

Sample Date/Time: **Friday, April 07, 2023 18:19:28**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30728 | 49616 | 2 | Standard |
| Cl | 37 | | ug/L | | | 4438068 | 4470590 | 2 | Standard |
| > Sc | 45 | | ug/L | | | 546109 | 646806 | 2 | Standard |
| Cr | 52 | 34.564 | ug/L | 0.234 | 0 | 17159 | 753501 | 1 | Standard |
| Cr | 53 | 34.951 | ug/L | 0.990 | 2 | 216 | 85801 | 1 | Standard |
| Mn | 55 | 171.878 | ug/L | 4.898 | 2 | 1132 | 5120393 | 0 | Standard |
| > Ge | 72 | | ug/L | | | 29835 | 29628 | 1 | KED |
| Ni | 60 | 35.899 | ug/L | 1.931 | 5 | 138 | 40517 | 4 | KED |
| Ni | 62 | 36.512 | ug/L | 1.961 | 5 | 33 | 6728 | 3 | KED |
| Cu | 63 | 46.922 | ug/L | 0.607 | 1 | 80 | 154031 | 1 | KED |
| Cu | 65 | 46.736 | ug/L | 1.140 | 2 | 24 | 75731 | 1 | KED |
| Zn | 66 | 124.057 | ug/L | 0.999 | 0 | 43 | 51586 | 1 | KED |
| Zn | 67 | 119.537 | ug/L | 1.366 | 1 | 3 | 8267 | 0 | KED |
| As | 75 | 28.948 | ug/L | 0.630 | 2 | 16 | 6281 | 2 | KED |
| Se | 78 | 74.561 | ug/L | 0.538 | 0 | 19 | 1831 | 1 | KED |
| Y | 89 | | ug/L | | | 297640 | 515834 | 4 | Standard |
| Kr | 83 | | ug/L | | | 48 | 105 | 8 | Standard |
| > In-1 | 115 | | ug/L | | | 8217 | 8115 | 1 | KED |
| Cd | 111 | 24.858 | ug/L | 0.253 | 1 | 4 | 5961 | 0 | KED |
| Cd | 114 | 24.856 | ug/L | 0.354 | 1 | 2 | 14660 | 0 | KED |
| > In | 115 | | ug/L | | | 413136 | 405169 | 2 | Standard |
| Ag | 107 | 12.059 | ug/L | 0.345 | 2 | 89 | 162869 | 0 | Standard |
| Ba | 135 | 56.978 | ug/L | 0.924 | 1 | 37 | 192968 | 0 | Standard |
| Ba | 137 | 57.654 | ug/L | 1.402 | 2 | 46 | 346503 | 0 | Standard |
| > Tb | 159 | | ug/L | | | 720127 | 732338 | 1 | Standard |
| Pb | 208 | 34.991 | ug/L | 0.612 | 1 | 200 | 1587350 | 1 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **BLD0055-PS1**

Sample Dil Factor: **20**

Comments:

Sample Date/Time: **Friday, April 07, 2023 18:24:12**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30728 | 56650 | 0 | Standard |
| Cl | 37 | | ug/L | | | 4438068 | 4358261 | 1 | Standard |
| [> Sc | 45 | | ug/L | | | 546109 | 635294 | 0 | Standard |
| Cr | 52 | 35.555 | ug/L | 0.235 | 0 | 17159 | 760807 | 0 | Standard |
| Cr | 53 | 35.912 | ug/L | 0.964 | 2 | 216 | 86611 | 2 | Standard |
| Mn | 55 | 172.261 | ug/L | 4.582 | 2 | 1132 | 5042944 | 3 | Standard |
| [> Ge | 72 | | ug/L | | | 29835 | 30148 | 0 | KED |
| Ni | 60 | 36.842 | ug/L | 0.750 | 2 | 138 | 42330 | 2 | KED |
| Ni | 62 | 37.654 | ug/L | 1.865 | 4 | 33 | 7063 | 5 | KED |
| Cu | 63 | 48.742 | ug/L | 1.635 | 3 | 80 | 162830 | 3 | KED |
| Cu | 65 | 49.256 | ug/L | 1.357 | 2 | 24 | 81234 | 2 | KED |
| Zn | 66 | 126.809 | ug/L | 2.634 | 2 | 43 | 53659 | 2 | KED |
| Zn | 67 | 118.114 | ug/L | 3.912 | 3 | 3 | 8314 | 3 | KED |
| As | 75 | 30.544 | ug/L | 0.452 | 1 | 16 | 6744 | 1 | KED |
| Se | 78 | 75.368 | ug/L | 0.803 | 1 | 19 | 1883 | 1 | KED |
| Y | 89 | | ug/L | | | 297640 | 509859 | 0 | Standard |
| Kr | 83 | | ug/L | | | 48 | 93 | 12 | Standard |
| [> In-1 | 115 | | ug/L | | | 8217 | 8283 | 3 | KED |
| Cd | 111 | 25.290 | ug/L | 0.719 | 2 | 4 | 6187 | 1 | KED |
| Cd | 114 | 25.133 | ug/L | 0.985 | 3 | 2 | 15118 | 0 | KED |
| [> In | 115 | | ug/L | | | 413136 | 409245 | 1 | Standard |
| Ag | 107 | 25.948 | ug/L | 0.211 | 0 | 89 | 354001 | 1 | Standard |
| Ba | 135 | 53.084 | ug/L | 0.676 | 1 | 37 | 181613 | 0 | Standard |
| Ba | 137 | 53.945 | ug/L | 0.932 | 1 | 46 | 327541 | 0 | Standard |
| [> Tb | 159 | | ug/L | | | 720127 | 727890 | 1 | Standard |
| Pb | 208 | 36.542 | ug/L | 0.822 | 2 | 200 | 1647536 | 1 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL5

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, April 07, 2023 18:28:56

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30728 | 33485 | 2 | Standard |
| Cl | 37 | | ug/L | | | 4438068 | 4162305 | 2 | Standard |
| [> Sc | 45 | | ug/L | | | 546109 | 499788 | 0 | Standard |
| Cr | 52 | 0.004 | ug/L | 0.026 | 653 | 17159 | 15769 | 2 | Standard |
| Cr | 53 | 0.011 | ug/L | 0.042 | 369 | 216 | 220 | 36 | Standard |
| Mn | 55 | 0.080 | ug/L | 0.158 | 196 | 1132 | 2879 | 125 | Standard |
| [> Ge | 72 | | ug/L | | | 29835 | 28811 | 1 | KED |
| Ni | 60 | -0.094 | ug/L | 0.010 | 10 | 138 | 31 | 35 | KED |
| Ni | 62 | -0.118 | ug/L | 0.029 | 24 | 33 | 11 | 44 | KED |
| Cu | 63 | -0.003 | ug/L | 0.000 | 13 | 80 | 69 | 3 | KED |
| Cu | 65 | 0.002 | ug/L | 0.001 | 81 | 24 | 26 | 7 | KED |
| Zn | 66 | -0.054 | ug/L | 0.008 | 14 | 43 | 19 | 14 | KED |
| Zn | 67 | -0.026 | ug/L | 0.029 | 108 | 3 | 1 | 100 | KED |
| As | 75 | -0.042 | ug/L | 0.007 | 16 | 16 | 6 | 20 | KED |
| Se | 78 | 0.114 | ug/L | 0.199 | 175 | 19 | 22 | 22 | KED |
| Y | 89 | | ug/L | | | 297640 | 278571 | 1 | Standard |
| Kr | 83 | | ug/L | | | 48 | 45 | 19 | Standard |
| [> In-1 | 115 | | ug/L | | | 8217 | 7913 | 1 | KED |
| Cd | 111 | 0.005 | ug/L | 0.009 | 182 | 4 | 5 | 39 | KED |
| Cd | 114 | 0.001 | ug/L | 0.002 | 147 | 2 | 2 | 34 | KED |
| [> In | 115 | | ug/L | | | 413136 | 394032 | 1 | Standard |
| Ag | 107 | 0.006 | ug/L | 0.014 | 222 | 89 | 168 | 109 | Standard |
| Ba | 135 | 0.020 | ug/L | 0.036 | 175 | 37 | 102 | 113 | Standard |
| Ba | 137 | 0.028 | ug/L | 0.046 | 166 | 46 | 204 | 130 | Standard |
| [> Tb | 159 | | ug/L | | | 720127 | 669402 | 0 | Standard |
| Pb | 208 | 0.015 | ug/L | 0.028 | 182 | 200 | 813 | 140 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV5

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, April 07, 2023 18:33:41

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30728 | 31529 | 0 | Standard |
| Cl | 37 | | ug/L | | | 4438068 | 4401700 | 2 | Standard |
| [> Sc | 45 | | ug/L | | | 546109 | 521470 | 1 | Standard |
| Cr | 52 | 50.206 | ug/L | 1.257 | 2 | 17159 | 874884 | 1 | Standard |
| Cr | 53 | 51.811 | ug/L | 1.402 | 2 | 216 | 102456 | 1 | Standard |
| Mn | 55 | 50.466 | ug/L | 1.123 | 2 | 1132 | 1213068 | 0 | Standard |
| [> Ge | 72 | | ug/L | | | 29835 | 29461 | 1 | KED |
| Ni | 60 | 48.584 | ug/L | 0.698 | 1 | 138 | 54498 | 0 | KED |
| Ni | 62 | 49.653 | ug/L | 1.381 | 2 | 33 | 9089 | 1 | KED |
| Cu | 63 | 48.690 | ug/L | 0.190 | 0 | 80 | 158940 | 1 | KED |
| Cu | 65 | 49.720 | ug/L | 0.261 | 0 | 24 | 80127 | 1 | KED |
| Zn | 66 | 50.017 | ug/L | 2.197 | 4 | 43 | 20701 | 3 | KED |
| Zn | 67 | 49.972 | ug/L | 0.533 | 1 | 3 | 3439 | 0 | KED |
| As | 75 | 50.271 | ug/L | 0.373 | 0 | 16 | 10835 | 0 | KED |
| [Se | 78 | 49.691 | ug/L | 0.786 | 1 | 19 | 1220 | 2 | KED |
| Y | 89 | | ug/L | | | 297640 | 296704 | 2 | Standard |
| Kr | 83 | | ug/L | | | 48 | 53 | 5 | Standard |
| [> In-1 | 115 | | ug/L | | | 8217 | 8321 | 3 | KED |
| Cd | 111 | 48.322 | ug/L | 1.292 | 2 | 4 | 11872 | 0 | KED |
| [Cd | 114 | 48.935 | ug/L | 2.206 | 4 | 2 | 29564 | 1 | KED |
| [> In | 115 | | ug/L | | | 413136 | 407349 | 1 | Standard |
| Ag | 107 | 50.709 | ug/L | 0.973 | 1 | 89 | 688560 | 1 | Standard |
| Ba | 135 | 51.123 | ug/L | 1.402 | 2 | 37 | 174129 | 3 | Standard |
| [Ba | 137 | 51.018 | ug/L | 0.662 | 1 | 46 | 308372 | 0 | Standard |
| [> Tb | 159 | | ug/L | | | 720127 | 704727 | 0 | Standard |
| [Pb | 208 | 49.143 | ug/L | 0.617 | 1 | 200 | 2145289 | 0 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB5

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, April 07, 2023 18:41:09

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30728 | 29778 | 2 | Standard |
| Cl | 37 | | ug/L | | | 4438068 | 4255792 | 1 | Standard |
| [> Sc | 45 | | ug/L | | | 546109 | 490568 | 1 | Standard |
| Cr | 52 | 0.008 | ug/L | 0.017 | 216 | 17159 | 15541 | 2 | Standard |
| Cr | 53 | -0.006 | ug/L | 0.002 | 39 | 216 | 183 | 2 | Standard |
| Mn | 55 | -0.012 | ug/L | 0.001 | 6 | 1132 | 753 | 3 | Standard |
| [> Ge | 72 | | ug/L | | | 29835 | 28616 | 1 | KED |
| Ni | 60 | -0.098 | ug/L | 0.006 | 5 | 138 | 26 | 21 | KED |
| Ni | 62 | -0.146 | ug/L | 0.027 | 18 | 33 | 6 | 75 | KED |
| Cu | 63 | -0.008 | ug/L | 0.002 | 27 | 80 | 52 | 14 | KED |
| Cu | 65 | 0.001 | ug/L | 0.003 | 505 | 24 | 24 | 20 | KED |
| Zn | 66 | -0.045 | ug/L | 0.023 | 51 | 43 | 23 | 40 | KED |
| Zn | 67 | -0.008 | ug/L | 0.043 | 569 | 3 | 3 | 91 | KED |
| As | 75 | -0.048 | ug/L | 0.002 | 4 | 16 | 5 | 8 | KED |
| Se | 78 | -0.134 | ug/L | 0.101 | 75 | 19 | 16 | 16 | KED |
| Y | 89 | | ug/L | | | 297640 | 280512 | 0 | Standard |
| Kr | 83 | | ug/L | | | 48 | 50 | 10 | Standard |
| [> In-1 | 115 | | ug/L | | | 8217 | 7939 | 0 | KED |
| Cd | 111 | -0.009 | ug/L | 0.007 | 77 | 4 | 1 | 86 | KED |
| Cd | 114 | 0.006 | ug/L | 0.006 | 100 | 2 | 5 | 59 | KED |
| [> In | 115 | | ug/L | | | 413136 | 400459 | 0 | Standard |
| Ag | 107 | -0.002 | ug/L | 0.000 | 1 | 89 | 62 | 0 | Standard |
| Ba | 135 | -0.004 | ug/L | 0.002 | 61 | 37 | 24 | 31 | Standard |
| Ba | 137 | -0.003 | ug/L | 0.001 | 47 | 46 | 29 | 24 | Standard |
| [> Tb | 159 | | ug/L | | | 720127 | 667173 | 1 | Standard |
| Pb | 208 | 0.001 | ug/L | 0.001 | 107 | 200 | 212 | 12 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23A0158-14**

Sample Dil Factor: **20**

Comments:

Sample Date/Time: **Friday, April 07, 2023 18:48:05**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30728 | 54336 | 2 | Standard |
| Cl | 37 | | ug/L | | | 4438068 | 4250036 | 0 | Standard |
| > Sc | 45 | | ug/L | | | 546109 | 634890 | 0 | Standard |
| Cr | 52 | 13.059 | ug/L | 0.145 | 1 | 17159 | 291871 | 0 | Standard |
| Cr | 53 | 13.218 | ug/L | 0.213 | 1 | 216 | 32021 | 1 | Standard |
| Mn | 55 | 147.796 | ug/L | 2.702 | 1 | 1132 | 4323316 | 1 | Standard |
| > Ge | 72 | | ug/L | | | 29835 | 29591 | 0 | KED |
| Ni | 60 | 11.860 | ug/L | 0.091 | 0 | 138 | 13467 | 0 | KED |
| Ni | 62 | 12.234 | ug/L | 0.263 | 2 | 33 | 2275 | 1 | KED |
| Cu | 63 | 24.592 | ug/L | 0.523 | 2 | 80 | 80667 | 1 | KED |
| Cu | 65 | 24.482 | ug/L | 0.266 | 1 | 24 | 39642 | 1 | KED |
| Zn | 66 | 50.267 | ug/L | 0.770 | 1 | 43 | 20902 | 1 | KED |
| Zn | 67 | 48.360 | ug/L | 0.300 | 0 | 3 | 3343 | 0 | KED |
| As | 75 | 5.834 | ug/L | 0.013 | 0 | 16 | 1277 | 0 | KED |
| Se | 78 | 0.837 | ug/L | 0.301 | 35 | 19 | 40 | 17 | KED |
| Y | 89 | | ug/L | | | 297640 | 517140 | 1 | Standard |
| Kr | 83 | | ug/L | | | 48 | 107 | 7 | Standard |
| > In-1 | 115 | | ug/L | | | 8217 | 8225 | 1 | KED |
| Cd | 111 | 0.121 | ug/L | 0.017 | 13 | 4 | 33 | 13 | KED |
| Cd | 114 | 0.160 | ug/L | 0.005 | 3 | 2 | 97 | 3 | KED |
| > In | 115 | | ug/L | | | 413136 | 406996 | 1 | Standard |
| Ag | 107 | 0.107 | ug/L | 0.004 | 4 | 89 | 1544 | 4 | Standard |
| Ba | 135 | 40.608 | ug/L | 0.419 | 1 | 37 | 138203 | 2 | Standard |
| Ba | 137 | 40.429 | ug/L | 0.535 | 1 | 46 | 244162 | 0 | Standard |
| > Tb | 159 | | ug/L | | | 720127 | 723597 | 2 | Standard |
| Pb | 208 | 10.527 | ug/L | 0.275 | 2 | 200 | 471856 | 0 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23A0158-15**

Sample Dil Factor: **20**

Comments:

Sample Date/Time: **Friday, April 07, 2023 18:52:49**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30728 | 55072 | 1 | Standard |
| Cl | 37 | | ug/L | | | 4438068 | 4216566 | 0 | Standard |
| > Sc | 45 | | ug/L | | | 546109 | 627183 | 1 | Standard |
| Cr | 52 | 17.572 | ug/L | 0.244 | 1 | 17159 | 381114 | 0 | Standard |
| Cr | 53 | 17.527 | ug/L | 0.405 | 2 | 216 | 41852 | 1 | Standard |
| Mn | 55 | 238.744 | ug/L | 7.900 | 3 | 1132 | 6896099 | 1 | Standard |
| > Ge | 72 | | ug/L | | | 29835 | 29801 | 0 | KED |
| Ni | 60 | 13.382 | ug/L | 0.134 | 0 | 138 | 15285 | 0 | KED |
| Ni | 62 | 13.654 | ug/L | 0.316 | 2 | 33 | 2553 | 2 | KED |
| Cu | 63 | 21.132 | ug/L | 0.164 | 0 | 80 | 69824 | 1 | KED |
| Cu | 65 | 21.222 | ug/L | 0.381 | 1 | 24 | 34613 | 2 | KED |
| Zn | 66 | 49.503 | ug/L | 1.106 | 2 | 43 | 20730 | 1 | KED |
| Zn | 67 | 48.132 | ug/L | 2.346 | 4 | 3 | 3350 | 4 | KED |
| As | 75 | 5.493 | ug/L | 0.158 | 2 | 16 | 1212 | 3 | KED |
| Se | 78 | 0.919 | ug/L | 0.145 | 15 | 19 | 42 | 8 | KED |
| Y | 89 | | ug/L | | | 297640 | 510759 | 1 | Standard |
| Kr | 83 | | ug/L | | | 48 | 111 | 17 | Standard |
| > In-1 | 115 | | ug/L | | | 8217 | 8142 | 1 | KED |
| Cd | 111 | 0.261 | ug/L | 0.032 | 12 | 4 | 66 | 12 | KED |
| Cd | 114 | 0.283 | ug/L | 0.034 | 12 | 2 | 169 | 10 | KED |
| > In | 115 | | ug/L | | | 413136 | 404655 | 2 | Standard |
| Ag | 107 | 0.092 | ug/L | 0.003 | 3 | 89 | 1322 | 4 | Standard |
| Ba | 135 | 39.017 | ug/L | 0.879 | 2 | 37 | 131966 | 1 | Standard |
| Ba | 137 | 38.382 | ug/L | 1.513 | 3 | 46 | 230318 | 1 | Standard |
| > Tb | 159 | | ug/L | | | 720127 | 728455 | 3 | Standard |
| Pb | 208 | 8.678 | ug/L | 0.298 | 3 | 200 | 391448 | 0 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23A0158-16**

Sample Dil Factor: **20**

Comments:

Sample Date/Time: **Friday, April 07, 2023 18:57:33**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30728 | 55926 | 0 | Standard |
| Cl | 37 | | ug/L | | | 4438068 | 4265247 | 1 | Standard |
| > Sc | 45 | | ug/L | | | 546109 | 631851 | 1 | Standard |
| Cr | 52 | 11.642 | ug/L | 0.413 | 3 | 17159 | 261034 | 1 | Standard |
| Cr | 53 | 11.892 | ug/L | 0.192 | 1 | 216 | 28693 | 1 | Standard |
| Mn | 55 | 150.094 | ug/L | 2.940 | 1 | 1132 | 4369210 | 1 | Standard |
| > Ge | 72 | | ug/L | | | 29835 | 29688 | 1 | KED |
| Ni | 60 | 10.725 | ug/L | 0.424 | 3 | 138 | 12228 | 2 | KED |
| Ni | 62 | 10.969 | ug/L | 0.181 | 1 | 33 | 2050 | 2 | KED |
| Cu | 63 | 22.358 | ug/L | 0.205 | 0 | 80 | 73586 | 1 | KED |
| Cu | 65 | 22.323 | ug/L | 0.256 | 1 | 24 | 36265 | 1 | KED |
| Zn | 66 | 46.995 | ug/L | 1.373 | 2 | 43 | 19605 | 2 | KED |
| Zn | 67 | 46.394 | ug/L | 1.106 | 2 | 3 | 3217 | 1 | KED |
| As | 75 | 5.796 | ug/L | 0.049 | 0 | 16 | 1273 | 2 | KED |
| Se | 78 | 0.961 | ug/L | 0.113 | 11 | 19 | 43 | 6 | KED |
| Y | 89 | | ug/L | | | 297640 | 504567 | 1 | Standard |
| Kr | 83 | | ug/L | | | 48 | 102 | 4 | Standard |
| > In-1 | 115 | | ug/L | | | 8217 | 8198 | 2 | KED |
| Cd | 111 | 0.120 | ug/L | 0.022 | 18 | 4 | 33 | 14 | KED |
| Cd | 114 | 0.155 | ug/L | 0.029 | 19 | 2 | 94 | 16 | KED |
| > In | 115 | | ug/L | | | 413136 | 407763 | 0 | Standard |
| Ag | 107 | 0.106 | ug/L | 0.009 | 8 | 89 | 1527 | 7 | Standard |
| Ba | 135 | 36.020 | ug/L | 0.442 | 1 | 37 | 122820 | 1 | Standard |
| Ba | 137 | 36.405 | ug/L | 0.328 | 0 | 46 | 220295 | 1 | Standard |
| > Tb | 159 | | ug/L | | | 720127 | 721293 | 1 | Standard |
| Pb | 208 | 9.247 | ug/L | 0.172 | 1 | 200 | 413290 | 0 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23A0206-02**

Sample Dil Factor: **20**

Comments:

Sample Date/Time: **Friday, April 07, 2023 19:02:17**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30728 | 51795 | 3 | Standard |
| Cl | 37 | | ug/L | | | 4438068 | 4204755 | 1 | Standard |
| > Sc | 45 | | ug/L | | | 546109 | 614973 | 1 | Standard |
| Cr | 52 | 13.586 | ug/L | 0.234 | 1 | 17159 | 293325 | 0 | Standard |
| Cr | 53 | 13.872 | ug/L | 0.306 | 2 | 216 | 32533 | 1 | Standard |
| Mn | 55 | 145.105 | ug/L | 4.700 | 3 | 1132 | 4111384 | 2 | Standard |
| > Ge | 72 | | ug/L | | | 29835 | 28984 | 0 | KED |
| Ni | 60 | 11.819 | ug/L | 0.451 | 3 | 138 | 13143 | 3 | KED |
| Ni | 62 | 11.861 | ug/L | 0.592 | 4 | 33 | 2162 | 5 | KED |
| Cu | 63 | 30.476 | ug/L | 0.449 | 1 | 80 | 97897 | 0 | KED |
| Cu | 65 | 30.585 | ug/L | 0.661 | 2 | 24 | 48498 | 1 | KED |
| Zn | 66 | 58.863 | ug/L | 1.347 | 2 | 43 | 23969 | 2 | KED |
| Zn | 67 | 56.219 | ug/L | 1.246 | 2 | 3 | 3806 | 2 | KED |
| As | 75 | 6.864 | ug/L | 0.063 | 0 | 16 | 1469 | 1 | KED |
| Se | 78 | 0.799 | ug/L | 0.047 | 5 | 19 | 38 | 3 | KED |
| Y | 89 | | ug/L | | | 297640 | 495443 | 1 | Standard |
| Kr | 83 | | ug/L | | | 48 | 119 | 14 | Standard |
| > In-1 | 115 | | ug/L | | | 8217 | 8158 | 2 | KED |
| Cd | 111 | 0.237 | ug/L | 0.005 | 2 | 4 | 61 | 0 | KED |
| Cd | 114 | 0.257 | ug/L | 0.011 | 4 | 2 | 154 | 6 | KED |
| > In | 115 | | ug/L | | | 413136 | 404978 | 2 | Standard |
| Ag | 107 | 0.144 | ug/L | 0.005 | 3 | 89 | 2027 | 4 | Standard |
| Ba | 135 | 37.408 | ug/L | 1.301 | 3 | 37 | 126633 | 2 | Standard |
| Ba | 137 | 37.350 | ug/L | 0.698 | 1 | 46 | 224416 | 0 | Standard |
| > Tb | 159 | | ug/L | | | 720127 | 709784 | 3 | Standard |
| Pb | 208 | 14.406 | ug/L | 0.385 | 2 | 200 | 633281 | 1 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23A0206-01**

Sample Dil Factor: **20**

Comments:

Sample Date/Time: **Friday, April 07, 2023 19:07:01**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30728 | 54462 | 3 | Standard |
| Cl | 37 | | ug/L | | | 4438068 | 4241651 | 2 | Standard |
| > Sc | 45 | | ug/L | | | 546109 | 633361 | 1 | Standard |
| Cr | 52 | 14.367 | ug/L | 0.307 | 2 | 17159 | 318325 | 1 | Standard |
| Cr | 53 | 14.502 | ug/L | 0.253 | 1 | 216 | 35015 | 0 | Standard |
| Mn | 55 | 152.349 | ug/L | 3.710 | 2 | 1132 | 4444946 | 0 | Standard |
| > Ge | 72 | | ug/L | | | 29835 | 29121 | 4 | KED |
| Ni | 60 | 12.312 | ug/L | 0.701 | 5 | 138 | 13730 | 1 | KED |
| Ni | 62 | 12.779 | ug/L | 0.791 | 6 | 33 | 2334 | 4 | KED |
| Cu | 63 | 31.502 | ug/L | 1.424 | 4 | 80 | 101550 | 2 | KED |
| Cu | 65 | 31.127 | ug/L | 1.692 | 5 | 24 | 49522 | 2 | KED |
| Zn | 66 | 60.233 | ug/L | 2.762 | 4 | 43 | 24607 | 0 | KED |
| Zn | 67 | 57.958 | ug/L | 4.389 | 7 | 3 | 3934 | 4 | KED |
| As | 75 | 7.485 | ug/L | 0.404 | 5 | 16 | 1605 | 0 | KED |
| Se | 78 | 0.919 | ug/L | 0.182 | 19 | 19 | 41 | 8 | KED |
| Y | 89 | | ug/L | | | 297640 | 517192 | 1 | Standard |
| Kr | 83 | | ug/L | | | 48 | 117 | 17 | Standard |
| > In-1 | 115 | | ug/L | | | 8217 | 8181 | 0 | KED |
| Cd | 111 | 0.213 | ug/L | 0.031 | 14 | 4 | 55 | 13 | KED |
| Cd | 114 | 0.228 | ug/L | 0.042 | 18 | 2 | 137 | 19 | KED |
| > In | 115 | | ug/L | | | 413136 | 397775 | 1 | Standard |
| Ag | 107 | 0.149 | ug/L | 0.006 | 3 | 89 | 2065 | 2 | Standard |
| Ba | 135 | 42.062 | ug/L | 0.054 | 0 | 37 | 139894 | 1 | Standard |
| Ba | 137 | 41.346 | ug/L | 0.756 | 1 | 46 | 244016 | 0 | Standard |
| > Tb | 159 | | ug/L | | | 720127 | 719203 | 1 | Standard |
| Pb | 208 | 14.681 | ug/L | 0.117 | 0 | 200 | 654202 | 0 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **BLD0123-DUP1**

Sample Dil Factor: **20**

Comments:

Sample Date/Time: **Friday, April 07, 2023 19:11:44**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30728 | 54514 | 1 | Standard |
| Cl | 37 | | ug/L | | | 4438068 | 4263581 | 4 | Standard |
| > Sc | 45 | | ug/L | | | 546109 | 624401 | 0 | Standard |
| Cr | 52 | 14.046 | ug/L | 0.124 | 0 | 17159 | 307280 | 0 | Standard |
| Cr | 53 | 14.364 | ug/L | 0.167 | 1 | 216 | 34200 | 0 | Standard |
| Mn | 55 | 156.535 | ug/L | 1.335 | 0 | 1132 | 4503677 | 1 | Standard |
| > Ge | 72 | | ug/L | | | 29835 | 28830 | 2 | KED |
| Ni | 60 | 12.412 | ug/L | 0.204 | 1 | 138 | 13729 | 4 | KED |
| Ni | 62 | 12.594 | ug/L | 1.080 | 8 | 33 | 2277 | 6 | KED |
| Cu | 63 | 32.013 | ug/L | 1.231 | 3 | 80 | 102224 | 1 | KED |
| Cu | 65 | 31.189 | ug/L | 0.450 | 1 | 24 | 49184 | 1 | KED |
| Zn | 66 | 59.584 | ug/L | 0.172 | 0 | 43 | 24131 | 2 | KED |
| Zn | 67 | 57.337 | ug/L | 1.125 | 1 | 3 | 3860 | 1 | KED |
| As | 75 | 7.409 | ug/L | 0.412 | 5 | 16 | 1574 | 2 | KED |
| Se | 78 | 1.013 | ug/L | 0.137 | 13 | 19 | 43 | 4 | KED |
| Y | 89 | | ug/L | | | 297640 | 513920 | 2 | Standard |
| Kr | 83 | | ug/L | | | 48 | 111 | 11 | Standard |
| > In-1 | 115 | | ug/L | | | 8217 | 8056 | 2 | KED |
| Cd | 111 | 0.250 | ug/L | 0.033 | 13 | 4 | 63 | 10 | KED |
| Cd | 114 | 0.225 | ug/L | 0.032 | 14 | 2 | 133 | 11 | KED |
| > In | 115 | | ug/L | | | 413136 | 397768 | 0 | Standard |
| Ag | 107 | 0.188 | ug/L | 0.005 | 2 | 89 | 2577 | 2 | Standard |
| Ba | 135 | 40.422 | ug/L | 0.376 | 0 | 37 | 134439 | 0 | Standard |
| Ba | 137 | 39.809 | ug/L | 0.838 | 2 | 46 | 234980 | 1 | Standard |
| > Tb | 159 | | ug/L | | | 720127 | 708142 | 2 | Standard |
| Pb | 208 | 14.996 | ug/L | 0.245 | 1 | 200 | 657889 | 1 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **BLD0123-MS1**

Sample Dil Factor: **20**

Comments:

Sample Date/Time: **Friday, April 07, 2023 19:16:28**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30728 | 50936 | 3 | Standard |
| Cl | 37 | | ug/L | | | 4438068 | 4182338 | 2 | Standard |
| > Sc | 45 | | ug/L | | | 546109 | 620294 | 0 | Standard |
| Cr | 52 | 36.471 | ug/L | 0.387 | 1 | 17159 | 761491 | 1 | Standard |
| Cr | 53 | 36.404 | ug/L | 0.468 | 1 | 216 | 85730 | 1 | Standard |
| Mn | 55 | 178.936 | ug/L | 1.054 | 0 | 1132 | 5114083 | 0 | Standard |
| > Ge | 72 | | ug/L | | | 29835 | 29103 | 1 | KED |
| Ni | 60 | 37.970 | ug/L | 0.697 | 1 | 138 | 42100 | 0 | KED |
| Ni | 62 | 38.222 | ug/L | 1.495 | 3 | 33 | 6919 | 2 | KED |
| Cu | 63 | 56.489 | ug/L | 0.296 | 0 | 80 | 182145 | 1 | KED |
| Cu | 65 | 57.737 | ug/L | 1.385 | 2 | 24 | 91896 | 1 | KED |
| Zn | 66 | 139.543 | ug/L | 0.984 | 0 | 43 | 56992 | 1 | KED |
| Zn | 67 | 134.368 | ug/L | 2.188 | 1 | 3 | 9127 | 0 | KED |
| As | 75 | 31.604 | ug/L | 0.647 | 2 | 16 | 6734 | 0 | KED |
| Se | 78 | 76.054 | ug/L | 1.484 | 1 | 19 | 1834 | 0 | KED |
| Y | 89 | | ug/L | | | 297640 | 514178 | 1 | Standard |
| Kr | 83 | | ug/L | | | 48 | 111 | 6 | Standard |
| > In-1 | 115 | | ug/L | | | 8217 | 7997 | 3 | KED |
| Cd | 111 | 24.933 | ug/L | 0.703 | 2 | 4 | 5889 | 1 | KED |
| Cd | 114 | 25.130 | ug/L | 1.293 | 5 | 2 | 14589 | 1 | KED |
| > In | 115 | | ug/L | | | 413136 | 395336 | 2 | Standard |
| Ag | 107 | 19.305 | ug/L | 0.608 | 3 | 89 | 254375 | 1 | Standard |
| Ba | 135 | 67.258 | ug/L | 1.996 | 2 | 37 | 222217 | 0 | Standard |
| Ba | 137 | 67.230 | ug/L | 2.441 | 3 | 46 | 394207 | 1 | Standard |
| > Tb | 159 | | ug/L | | | 720127 | 707928 | 0 | Standard |
| Pb | 208 | 39.766 | ug/L | 0.081 | 0 | 200 | 1744023 | 0 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **BLD0123-MSD1**

Sample Dil Factor: **20**

Comments:

Sample Date/Time: **Friday, April 07, 2023 19:21:12**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30728 | 54934 | 3 | Standard |
| Cl | 37 | | ug/L | | | 4438068 | 4205744 | 0 | Standard |
| > Sc | 45 | | ug/L | | | 546109 | 632000 | 2 | Standard |
| Cr | 52 | 35.611 | ug/L | 0.828 | 2 | 17159 | 757863 | 1 | Standard |
| Cr | 53 | 35.755 | ug/L | 0.413 | 1 | 216 | 85781 | 1 | Standard |
| Mn | 55 | 173.155 | ug/L | 4.765 | 2 | 1132 | 5040339 | 1 | Standard |
| > Ge | 72 | | ug/L | | | 29835 | 28830 | 2 | KED |
| Ni | 60 | 37.447 | ug/L | 0.600 | 1 | 138 | 41131 | 0 | KED |
| Ni | 62 | 37.363 | ug/L | 0.787 | 2 | 33 | 6703 | 3 | KED |
| Cu | 63 | 56.755 | ug/L | 0.412 | 0 | 80 | 181264 | 1 | KED |
| Cu | 65 | 55.874 | ug/L | 1.792 | 3 | 24 | 88074 | 1 | KED |
| Zn | 66 | 139.012 | ug/L | 1.754 | 1 | 43 | 56235 | 0 | KED |
| Zn | 67 | 131.456 | ug/L | 3.067 | 2 | 3 | 8847 | 2 | KED |
| As | 75 | 30.605 | ug/L | 0.601 | 1 | 16 | 6460 | 0 | KED |
| Se | 78 | 73.592 | ug/L | 0.449 | 0 | 19 | 1758 | 1 | KED |
| Y | 89 | | ug/L | | | 297640 | 517395 | 0 | Standard |
| Kr | 83 | | ug/L | | | 48 | 110 | 10 | Standard |
| > In-1 | 115 | | ug/L | | | 8217 | 7870 | 0 | KED |
| Cd | 111 | 25.061 | ug/L | 0.127 | 0 | 4 | 5829 | 0 | KED |
| Cd | 114 | 24.735 | ug/L | 0.610 | 2 | 2 | 14148 | 2 | KED |
| > In | 115 | | ug/L | | | 413136 | 398745 | 1 | Standard |
| Ag | 107 | 20.832 | ug/L | 0.449 | 2 | 89 | 276903 | 1 | Standard |
| Ba | 135 | 68.134 | ug/L | 1.556 | 2 | 37 | 227123 | 2 | Standard |
| Ba | 137 | 67.967 | ug/L | 1.998 | 2 | 46 | 402062 | 1 | Standard |
| > Tb | 159 | | ug/L | | | 720127 | 710578 | 0 | Standard |
| Pb | 208 | 39.669 | ug/L | 0.260 | 0 | 200 | 1746294 | 0 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **BLD0123-PS1**

Sample Dil Factor: **20**

Comments:

Sample Date/Time: **Friday, April 07, 2023 19:25:55**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30728 | 62326 | 1 | Standard |
| Cl | 37 | | ug/L | | | 4438068 | 4281311 | 3 | Standard |
| > Sc | 45 | | ug/L | | | 546109 | 627013 | 0 | Standard |
| Cr | 52 | 35.893 | ug/L | 0.719 | 2 | 17159 | 757769 | 1 | Standard |
| Cr | 53 | 37.123 | ug/L | 0.312 | 0 | 216 | 88367 | 1 | Standard |
| Mn | 55 | 173.853 | ug/L | 0.430 | 0 | 1132 | 5022663 | 0 | Standard |
| > Ge | 72 | | ug/L | | | 29835 | 29410 | 0 | KED |
| Ni | 60 | 37.691 | ug/L | 0.466 | 1 | 138 | 42240 | 1 | KED |
| Ni | 62 | 37.909 | ug/L | 0.912 | 2 | 33 | 6936 | 1 | KED |
| Cu | 63 | 57.761 | ug/L | 0.613 | 1 | 80 | 188217 | 1 | KED |
| Cu | 65 | 57.093 | ug/L | 0.673 | 1 | 24 | 91854 | 1 | KED |
| Zn | 66 | 137.816 | ug/L | 2.108 | 1 | 43 | 56881 | 1 | KED |
| Zn | 67 | 130.851 | ug/L | 4.134 | 3 | 3 | 8983 | 2 | KED |
| As | 75 | 32.554 | ug/L | 0.765 | 2 | 16 | 7010 | 1 | KED |
| Se | 78 | 77.853 | ug/L | 1.956 | 2 | 19 | 1897 | 3 | KED |
| Y | 89 | | ug/L | | | 297640 | 520138 | 2 | Standard |
| Kr | 83 | | ug/L | | | 48 | 102 | 11 | Standard |
| > In-1 | 115 | | ug/L | | | 8217 | 7997 | 1 | KED |
| Cd | 111 | 26.087 | ug/L | 0.739 | 2 | 4 | 6164 | 2 | KED |
| Cd | 114 | 25.342 | ug/L | 0.288 | 1 | 2 | 14729 | 1 | KED |
| > In | 115 | | ug/L | | | 413136 | 397140 | 1 | Standard |
| Ag | 107 | 26.963 | ug/L | 0.282 | 1 | 89 | 357025 | 2 | Standard |
| Ba | 135 | 66.149 | ug/L | 2.111 | 3 | 37 | 219589 | 2 | Standard |
| Ba | 137 | 66.659 | ug/L | 1.451 | 2 | 46 | 392791 | 1 | Standard |
| > Tb | 159 | | ug/L | | | 720127 | 709532 | 2 | Standard |
| Pb | 208 | 40.470 | ug/L | 1.067 | 2 | 200 | 1778285 | 0 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL6

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, April 07, 2023 19:30:40

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30728 | 32377 | 3 | Standard |
| Cl | 37 | | ug/L | | | 4438068 | 4085098 | 1 | Standard |
| [> Sc | 45 | | ug/L | | | 546109 | 489192 | 1 | Standard |
| Cr | 52 | -0.031 | ug/L | 0.035 | 112 | 17159 | 14861 | 2 | Standard |
| Cr | 53 | -0.012 | ug/L | 0.005 | 37 | 216 | 171 | 3 | Standard |
| Mn | 55 | -0.003 | ug/L | 0.003 | 91 | 1132 | 944 | 7 | Standard |
| [> Ge | 72 | | ug/L | | | 29835 | 28656 | 2 | KED |
| Ni | 60 | -0.088 | ug/L | 0.001 | 1 | 138 | 36 | 2 | KED |
| Ni | 62 | -0.125 | ug/L | 0.032 | 25 | 33 | 10 | 57 | KED |
| Cu | 63 | 0.031 | ug/L | 0.009 | 29 | 80 | 177 | 15 | KED |
| Cu | 65 | 0.041 | ug/L | 0.002 | 6 | 24 | 87 | 2 | KED |
| Zn | 66 | 0.003 | ug/L | 0.020 | 672 | 43 | 42 | 16 | KED |
| Zn | 67 | 0.060 | ug/L | 0.031 | 51 | 3 | 7 | 25 | KED |
| As | 75 | -0.057 | ug/L | 0.004 | 6 | 16 | 3 | 19 | KED |
| Se | 78 | -0.089 | ug/L | 0.139 | 156 | 19 | 17 | 20 | KED |
| Y | 89 | | ug/L | | | 297640 | 277834 | 1 | Standard |
| Kr | 83 | | ug/L | | | 48 | 45 | 14 | Standard |
| [> In-1 | 115 | | ug/L | | | 8217 | 7769 | 3 | KED |
| Cd | 111 | -0.009 | ug/L | 0.004 | 51 | 4 | 1 | 50 | KED |
| Cd | 114 | 0.007 | ug/L | 0.004 | 55 | 2 | 6 | 34 | KED |
| [> In | 115 | | ug/L | | | 413136 | 389818 | 0 | Standard |
| Ag | 107 | -0.001 | ug/L | 0.001 | 64 | 89 | 68 | 14 | Standard |
| Ba | 135 | 0.003 | ug/L | 0.003 | 123 | 37 | 44 | 25 | Standard |
| Ba | 137 | 0.007 | ug/L | 0.001 | 10 | 46 | 83 | 4 | Standard |
| [> Tb | 159 | | ug/L | | | 720127 | 669078 | 2 | Standard |
| Pb | 208 | -0.000 | ug/L | 0.001 | 352 | 200 | 172 | 30 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV6

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, April 07, 2023 19:35:24

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30728 | 30055 | 1 | Standard |
| Cl | 37 | | ug/L | | | 4438068 | 4320009 | 0 | Standard |
| [> Sc | 45 | | ug/L | | | 546109 | 504170 | 0 | Standard |
| Cr | 52 | 50.354 | ug/L | 0.712 | 1 | 17159 | 848541 | 2 | Standard |
| Cr | 53 | 51.120 | ug/L | 1.449 | 2 | 216 | 97782 | 3 | Standard |
| Mn | 55 | 50.325 | ug/L | 0.547 | 1 | 1132 | 1169865 | 1 | Standard |
| [> Ge | 72 | | ug/L | | | 29835 | 28456 | 0 | KED |
| Ni | 60 | 48.069 | ug/L | 0.694 | 1 | 138 | 52086 | 0 | KED |
| Ni | 62 | 49.768 | ug/L | 1.718 | 3 | 33 | 8802 | 3 | KED |
| Cu | 63 | 49.625 | ug/L | 1.197 | 2 | 80 | 156452 | 1 | KED |
| Cu | 65 | 49.694 | ug/L | 0.415 | 0 | 24 | 77356 | 1 | KED |
| Zn | 66 | 50.168 | ug/L | 1.091 | 2 | 43 | 20061 | 1 | KED |
| Zn | 67 | 51.309 | ug/L | 1.762 | 3 | 3 | 3410 | 3 | KED |
| As | 75 | 49.865 | ug/L | 0.608 | 1 | 16 | 10382 | 0 | KED |
| [Se | 78 | 49.798 | ug/L | 1.897 | 3 | 19 | 1181 | 3 | KED |
| Y | 89 | | ug/L | | | 297640 | 286710 | 3 | Standard |
| Kr | 83 | | ug/L | | | 48 | 54 | 23 | Standard |
| [> In-1 | 115 | | ug/L | | | 8217 | 7876 | 1 | KED |
| Cd | 111 | 50.030 | ug/L | 0.419 | 0 | 4 | 11640 | 1 | KED |
| [Cd | 114 | 49.855 | ug/L | 1.063 | 2 | 2 | 28532 | 0 | KED |
| [> In | 115 | | ug/L | | | 413136 | 387579 | 2 | Standard |
| Ag | 107 | 52.355 | ug/L | 0.193 | 0 | 89 | 676394 | 1 | Standard |
| Ba | 135 | 52.061 | ug/L | 0.419 | 0 | 37 | 168687 | 1 | Standard |
| [Ba | 137 | 51.453 | ug/L | 0.770 | 1 | 46 | 295865 | 0 | Standard |
| [> Tb | 159 | | ug/L | | | 720127 | 688907 | 1 | Standard |
| [Pb | 208 | 49.121 | ug/L | 0.460 | 0 | 200 | 2096224 | 0 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB6

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, April 07, 2023 19:42:53

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30728 | 29722 | 0 | Standard |
| Cl | 37 | | ug/L | | | 4438068 | 4242139 | 1 | Standard |
| [> Sc | 45 | | ug/L | | | 546109 | 489017 | 0 | Standard |
| Cr | 52 | -0.026 | ug/L | 0.027 | 103 | 17159 | 14950 | 2 | Standard |
| Cr | 53 | -0.025 | ug/L | 0.008 | 31 | 216 | 147 | 8 | Standard |
| Mn | 55 | -0.012 | ug/L | 0.001 | 8 | 1132 | 740 | 2 | Standard |
| [> Ge | 72 | | ug/L | | | 29835 | 27734 | 0 | KED |
| Ni | 60 | -0.090 | ug/L | 0.003 | 2 | 138 | 33 | 8 | KED |
| Ni | 62 | -0.138 | ug/L | 0.033 | 23 | 33 | 7 | 75 | KED |
| Cu | 63 | -0.007 | ug/L | 0.003 | 33 | 80 | 52 | 14 | KED |
| Cu | 65 | 0.001 | ug/L | 0.004 | 553 | 24 | 24 | 25 | KED |
| Zn | 66 | -0.033 | ug/L | 0.025 | 74 | 43 | 27 | 35 | KED |
| Zn | 67 | 0.044 | ug/L | 0.095 | 218 | 3 | 6 | 96 | KED |
| As | 75 | -0.043 | ug/L | 0.004 | 8 | 16 | 6 | 11 | KED |
| Se | 78 | -0.106 | ug/L | 0.101 | 95 | 19 | 16 | 14 | KED |
| Y | 89 | | ug/L | | | 297640 | 275683 | 2 | Standard |
| Kr | 83 | | ug/L | | | 48 | 37 | 30 | Standard |
| [> In-1 | 115 | | ug/L | | | 8217 | 7716 | 1 | KED |
| Cd | 111 | -0.006 | ug/L | 0.005 | 78 | 4 | 2 | 43 | KED |
| Cd | 114 | 0.003 | ug/L | 0.007 | 253 | 2 | 3 | 102 | KED |
| [> In | 115 | | ug/L | | | 413136 | 391686 | 1 | Standard |
| Ag | 107 | -0.001 | ug/L | 0.001 | 86 | 89 | 71 | 14 | Standard |
| Ba | 135 | -0.004 | ug/L | 0.003 | 63 | 37 | 20 | 41 | Standard |
| Ba | 137 | -0.001 | ug/L | 0.001 | 83 | 46 | 36 | 18 | Standard |
| [> Tb | 159 | | ug/L | | | 720127 | 660183 | 1 | Standard |
| Pb | 208 | -0.000 | ug/L | 0.001 | 1977 | 200 | 180 | 25 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23A0179-02**

Sample Dil Factor: **20**

Comments:

Sample Date/Time: **Friday, April 07, 2023 19:47:38**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30728 | 52636 | 1 | Standard |
| Cl | 37 | | ug/L | | | 4438068 | 4181363 | 1 | Standard |
| > Sc | 45 | | ug/L | | | 546109 | 610427 | 0 | Standard |
| Cr | 52 | 13.744 | ug/L | 0.221 | 1 | 17159 | 294356 | 1 | Standard |
| Cr | 53 | 13.951 | ug/L | 0.194 | 1 | 216 | 32481 | 1 | Standard |
| Mn | 55 | 137.044 | ug/L | 0.825 | 0 | 1132 | 3854764 | 0 | Standard |
| > Ge | 72 | | ug/L | | | 29835 | 28864 | 2 | KED |
| Ni | 60 | 13.226 | ug/L | 0.519 | 3 | 138 | 14624 | 1 | KED |
| Ni | 62 | 13.195 | ug/L | 0.712 | 5 | 33 | 2391 | 6 | KED |
| Cu | 63 | 21.558 | ug/L | 0.392 | 1 | 80 | 68968 | 1 | KED |
| Cu | 65 | 21.385 | ug/L | 0.519 | 2 | 24 | 33770 | 2 | KED |
| Zn | 66 | 48.207 | ug/L | 0.174 | 0 | 43 | 19554 | 2 | KED |
| Zn | 67 | 44.501 | ug/L | 0.348 | 0 | 3 | 3001 | 3 | KED |
| As | 75 | 4.167 | ug/L | 0.063 | 1 | 16 | 894 | 2 | KED |
| Se | 78 | 0.932 | ug/L | 0.241 | 25 | 19 | 41 | 13 | KED |
| Y | 89 | | ug/L | | | 297640 | 525404 | 1 | Standard |
| Kr | 83 | | ug/L | | | 48 | 100 | 15 | Standard |
| > In-1 | 115 | | ug/L | | | 8217 | 7884 | 1 | KED |
| Cd | 111 | 0.126 | ug/L | 0.038 | 30 | 4 | 33 | 26 | KED |
| Cd | 114 | 0.157 | ug/L | 0.027 | 16 | 2 | 92 | 16 | KED |
| > In | 115 | | ug/L | | | 413136 | 390942 | 1 | Standard |
| Ag | 107 | 0.093 | ug/L | 0.003 | 2 | 89 | 1291 | 3 | Standard |
| Ba | 135 | 30.433 | ug/L | 0.109 | 0 | 37 | 99488 | 0 | Standard |
| Ba | 137 | 31.030 | ug/L | 0.531 | 1 | 46 | 180014 | 1 | Standard |
| > Tb | 159 | | ug/L | | | 720127 | 713299 | 2 | Standard |
| Pb | 208 | 9.067 | ug/L | 0.188 | 2 | 200 | 400707 | 0 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23A0179-03**

Sample Dil Factor: **20**

Comments:

Sample Date/Time: **Friday, April 07, 2023 19:52:21**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30728 | 57249 | 1 | Standard |
| Cl | 37 | | ug/L | | | 4438068 | 4180821 | 0 | Standard |
| > Sc | 45 | | ug/L | | | 546109 | 616756 | 1 | Standard |
| Cr | 52 | 13.727 | ug/L | 0.057 | 0 | 17159 | 297054 | 0 | Standard |
| Cr | 53 | 13.927 | ug/L | 0.155 | 1 | 216 | 32763 | 2 | Standard |
| Mn | 55 | 173.961 | ug/L | 2.122 | 1 | 1132 | 4943334 | 1 | Standard |
| > Ge | 72 | | ug/L | | | 29835 | 29060 | 1 | KED |
| Ni | 60 | 12.103 | ug/L | 0.203 | 1 | 138 | 13492 | 0 | KED |
| Ni | 62 | 11.898 | ug/L | 0.581 | 4 | 33 | 2172 | 3 | KED |
| Cu | 63 | 24.250 | ug/L | 0.211 | 0 | 80 | 78115 | 1 | KED |
| Cu | 65 | 24.760 | ug/L | 0.132 | 0 | 24 | 39371 | 1 | KED |
| Zn | 66 | 49.568 | ug/L | 0.831 | 1 | 43 | 20242 | 2 | KED |
| Zn | 67 | 47.992 | ug/L | 1.198 | 2 | 3 | 3257 | 1 | KED |
| As | 75 | 6.569 | ug/L | 0.196 | 2 | 16 | 1410 | 1 | KED |
| Se | 78 | 0.935 | ug/L | 0.169 | 18 | 19 | 41 | 11 | KED |
| Y | 89 | | ug/L | | | 297640 | 511903 | 0 | Standard |
| Kr | 83 | | ug/L | | | 48 | 83 | 31 | Standard |
| > In-1 | 115 | | ug/L | | | 8217 | 7912 | 2 | KED |
| Cd | 111 | 0.141 | ug/L | 0.038 | 26 | 4 | 36 | 23 | KED |
| Cd | 114 | 0.158 | ug/L | 0.015 | 9 | 2 | 93 | 10 | KED |
| > In | 115 | | ug/L | | | 413136 | 400750 | 0 | Standard |
| Ag | 107 | 0.108 | ug/L | 0.007 | 6 | 89 | 1529 | 5 | Standard |
| Ba | 135 | 35.193 | ug/L | 0.223 | 0 | 37 | 117929 | 0 | Standard |
| Ba | 137 | 34.432 | ug/L | 0.440 | 1 | 46 | 204767 | 0 | Standard |
| > Tb | 159 | | ug/L | | | 720127 | 710521 | 0 | Standard |
| Pb | 208 | 10.432 | ug/L | 0.125 | 1 | 200 | 459336 | 1 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23A0179-04**

Sample Dil Factor: **20**

Comments:

Sample Date/Time: **Friday, April 07, 2023 19:57:05**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30728 | 61889 | 4 | Standard |
| Cl | 37 | | ug/L | | | 4438068 | 4193783 | 0 | Standard |
| > Sc | 45 | | ug/L | | | 546109 | 624059 | 1 | Standard |
| Cr | 52 | 13.565 | ug/L | 0.277 | 2 | 17159 | 297195 | 0 | Standard |
| Cr | 53 | 13.789 | ug/L | 0.272 | 1 | 216 | 32816 | 0 | Standard |
| Mn | 55 | 139.800 | ug/L | 2.103 | 1 | 1132 | 4019463 | 0 | Standard |
| > Ge | 72 | | ug/L | | | 29835 | 28883 | 0 | KED |
| Ni | 60 | 11.934 | ug/L | 0.344 | 2 | 138 | 13225 | 2 | KED |
| Ni | 62 | 11.687 | ug/L | 0.225 | 1 | 33 | 2122 | 1 | KED |
| Cu | 63 | 23.193 | ug/L | 0.258 | 1 | 80 | 74259 | 0 | KED |
| Cu | 65 | 23.789 | ug/L | 0.806 | 3 | 24 | 37596 | 3 | KED |
| Zn | 66 | 47.525 | ug/L | 0.382 | 0 | 43 | 19292 | 1 | KED |
| Zn | 67 | 47.153 | ug/L | 0.299 | 0 | 3 | 3181 | 1 | KED |
| As | 75 | 4.853 | ug/L | 0.061 | 1 | 16 | 1039 | 1 | KED |
| Se | 78 | 0.904 | ug/L | 0.128 | 14 | 19 | 40 | 7 | KED |
| Y | 89 | | ug/L | | | 297640 | 509235 | 1 | Standard |
| Kr | 83 | | ug/L | | | 48 | 123 | 17 | Standard |
| > In-1 | 115 | | ug/L | | | 8217 | 7901 | 4 | KED |
| Cd | 111 | 0.136 | ug/L | 0.033 | 23 | 4 | 35 | 20 | KED |
| Cd | 114 | 0.138 | ug/L | 0.022 | 15 | 2 | 81 | 15 | KED |
| > In | 115 | | ug/L | | | 413136 | 395036 | 1 | Standard |
| Ag | 107 | 0.099 | ug/L | 0.004 | 3 | 89 | 1394 | 4 | Standard |
| Ba | 135 | 36.287 | ug/L | 1.070 | 2 | 37 | 119830 | 1 | Standard |
| Ba | 137 | 36.009 | ug/L | 0.877 | 2 | 46 | 211050 | 1 | Standard |
| > Tb | 159 | | ug/L | | | 720127 | 701982 | 2 | Standard |
| Pb | 208 | 10.090 | ug/L | 0.192 | 1 | 200 | 438794 | 0 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23A0179-05**

Sample Dil Factor: **20**

Comments:

Sample Date/Time: **Friday, April 07, 2023 20:01:49**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30728 | 53291 | 1 | Standard |
| Cl | 37 | | ug/L | | | 4438068 | 4187431 | 1 | Standard |
| > Sc | 45 | | ug/L | | | 546109 | 570657 | 2 | Standard |
| Cr | 52 | 9.835 | ug/L | 0.246 | 2 | 17159 | 201934 | 1 | Standard |
| Cr | 53 | 10.093 | ug/L | 0.213 | 2 | 216 | 22024 | 1 | Standard |
| Mn | 55 | 125.120 | ug/L | 2.006 | 1 | 1132 | 3289349 | 1 | Standard |
| > Ge | 72 | | ug/L | | | 29835 | 28575 | 2 | KED |
| Ni | 60 | 8.281 | ug/L | 0.257 | 3 | 138 | 9116 | 0 | KED |
| Ni | 62 | 8.410 | ug/L | 0.355 | 4 | 33 | 1519 | 1 | KED |
| Cu | 63 | 27.763 | ug/L | 0.370 | 1 | 80 | 87936 | 2 | KED |
| Cu | 65 | 28.512 | ug/L | 0.510 | 1 | 24 | 44567 | 0 | KED |
| Zn | 66 | 35.124 | ug/L | 0.985 | 2 | 43 | 14111 | 0 | KED |
| Zn | 67 | 34.082 | ug/L | 1.769 | 5 | 3 | 2275 | 3 | KED |
| As | 75 | 4.398 | ug/L | 0.108 | 2 | 16 | 933 | 0 | KED |
| Se | 78 | 0.735 | ug/L | 0.216 | 29 | 19 | 36 | 11 | KED |
| Y | 89 | | ug/L | | | 297640 | 441818 | 1 | Standard |
| Kr | 83 | | ug/L | | | 48 | 93 | 9 | Standard |
| > In-1 | 115 | | ug/L | | | 8217 | 7710 | 1 | KED |
| Cd | 111 | 0.092 | ug/L | 0.005 | 5 | 4 | 24 | 3 | KED |
| Cd | 114 | 0.092 | ug/L | 0.015 | 16 | 2 | 54 | 16 | KED |
| > In | 115 | | ug/L | | | 413136 | 389715 | 3 | Standard |
| Ag | 107 | 0.071 | ug/L | 0.003 | 4 | 89 | 1003 | 5 | Standard |
| Ba | 135 | 23.453 | ug/L | 0.706 | 3 | 37 | 76383 | 0 | Standard |
| Ba | 137 | 23.002 | ug/L | 0.947 | 4 | 46 | 132919 | 0 | Standard |
| > Tb | 159 | | ug/L | | | 720127 | 695866 | 3 | Standard |
| Pb | 208 | 7.172 | ug/L | 0.254 | 3 | 200 | 309101 | 0 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23A0179-06**

Sample Dil Factor: **20**

Comments:

Sample Date/Time: **Friday, April 07, 2023 20:06:33**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30728 | 57765 | 2 | Standard |
| Cl | 37 | | ug/L | | | 4438068 | 4150372 | 1 | Standard |
| > Sc | 45 | | ug/L | | | 546109 | 620344 | 1 | Standard |
| Cr | 52 | 13.278 | ug/L | 0.219 | 1 | 17159 | 289628 | 0 | Standard |
| Cr | 53 | 13.638 | ug/L | 0.378 | 2 | 216 | 32265 | 1 | Standard |
| Mn | 55 | 147.446 | ug/L | 2.240 | 1 | 1132 | 4214157 | 0 | Standard |
| > Ge | 72 | | ug/L | | | 29835 | 28966 | 1 | KED |
| Ni | 60 | 11.341 | ug/L | 0.239 | 2 | 138 | 12609 | 0 | KED |
| Ni | 62 | 11.496 | ug/L | 0.129 | 1 | 33 | 2094 | 2 | KED |
| Cu | 63 | 26.986 | ug/L | 0.884 | 3 | 80 | 86614 | 1 | KED |
| Cu | 65 | 27.359 | ug/L | 0.349 | 1 | 24 | 43364 | 2 | KED |
| Zn | 66 | 67.767 | ug/L | 0.532 | 0 | 43 | 27568 | 1 | KED |
| Zn | 67 | 65.855 | ug/L | 3.828 | 5 | 3 | 4452 | 3 | KED |
| As | 75 | 5.221 | ug/L | 0.373 | 7 | 16 | 1119 | 5 | KED |
| Se | 78 | 0.840 | ug/L | 0.152 | 18 | 19 | 39 | 7 | KED |
| Y | 89 | | ug/L | | | 297640 | 501422 | 0 | Standard |
| Kr | 83 | | ug/L | | | 48 | 106 | 15 | Standard |
| > In-1 | 115 | | ug/L | | | 8217 | 7988 | 0 | KED |
| Cd | 111 | 0.159 | ug/L | 0.003 | 1 | 4 | 41 | 1 | KED |
| Cd | 114 | 0.181 | ug/L | 0.035 | 19 | 2 | 107 | 19 | KED |
| > In | 115 | | ug/L | | | 413136 | 391825 | 1 | Standard |
| Ag | 107 | 0.120 | ug/L | 0.002 | 1 | 89 | 1652 | 1 | Standard |
| Ba | 135 | 47.402 | ug/L | 0.793 | 1 | 37 | 155274 | 1 | Standard |
| Ba | 137 | 46.774 | ug/L | 0.972 | 2 | 46 | 271902 | 0 | Standard |
| > Tb | 159 | | ug/L | | | 720127 | 710526 | 1 | Standard |
| Pb | 208 | 11.691 | ug/L | 0.336 | 2 | 200 | 514577 | 1 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23A0179-07**

Sample Dil Factor: **20**

Comments:

Sample Date/Time: **Friday, April 07, 2023 20:11:17**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|---------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30728 | 49686 | 0 | Standard |
| Cl | 37 | | ug/L | | | 4438068 | 4168698 | 1 | Standard |
| > Sc | 45 | | ug/L | | | 546109 | 593374 | 1 | Standard |
| Cr | 52 | 9.984 | ug/L | 0.204 | 2 | 17159 | 212932 | 1 | Standard |
| Cr | 53 | 10.122 | ug/L | 0.187 | 1 | 216 | 22970 | 1 | Standard |
| Mn | 55 | 90.594 | ug/L | 1.036 | 1 | 1132 | 2477300 | 1 | Standard |
| > Ge | 72 | | ug/L | | | 29835 | 28963 | 1 | KED |
| Ni | 60 | 8.407 | ug/L | 0.129 | 1 | 138 | 9382 | 1 | KED |
| Ni | 62 | 8.245 | ug/L | 0.292 | 3 | 33 | 1511 | 3 | KED |
| Cu | 63 | 15.021 | ug/L | 0.141 | 0 | 80 | 48258 | 2 | KED |
| Cu | 65 | 15.578 | ug/L | 0.267 | 1 | 24 | 24692 | 0 | KED |
| Zn | 66 | 28.823 | ug/L | 0.557 | 1 | 43 | 11746 | 0 | KED |
| Zn | 67 | 26.764 | ug/L | 0.886 | 3 | 3 | 1812 | 2 | KED |
| As | 75 | 3.687 | ug/L | 0.156 | 4 | 16 | 795 | 2 | KED |
| Se | 78 | 0.696 | ug/L | 0.127 | 18 | 19 | 35 | 7 | KED |
| Y | 89 | | ug/L | | | 297640 | 474526 | 0 | Standard |
| Kr | 83 | | ug/L | | | 48 | 100 | 4 | Standard |
| > In-1 | 115 | | ug/L | | | 8217 | 7829 | 0 | KED |
| Cd | 111 | 0.053 | ug/L | 0.018 | 34 | 4 | 16 | 26 | KED |
| Cd | 114 | 0.047 | ug/L | 0.001 | 2 | 2 | 28 | 3 | KED |
| > In | 115 | | ug/L | | | 413136 | 398001 | 0 | Standard |
| Ag | 107 | 0.056 | ug/L | 0.001 | 2 | 89 | 823 | 2 | Standard |
| Ba | 135 | 24.484 | ug/L | 0.356 | 1 | 37 | 81492 | 1 | Standard |
| Ba | 137 | 24.482 | ug/L | 0.401 | 1 | 46 | 144607 | 1 | Standard |
| > Tb | 159 | | ug/L | | | 720127 | 707107 | 0 | Standard |
| Pb | 208 | 4.540 | ug/L | 0.067 | 1 | 200 | 199032 | 0 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23A0179-08**

Sample Dil Factor: **20**

Comments:

Sample Date/Time: **Friday, April 07, 2023 20:16:01**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30728 | 58031 | 0 | Standard |
| Cl | 37 | | ug/L | | | 4438068 | 4211433 | 1 | Standard |
| > Sc | 45 | | ug/L | | | 546109 | 586630 | 1 | Standard |
| Cr | 52 | 13.053 | ug/L | 0.279 | 2 | 17159 | 269523 | 0 | Standard |
| Cr | 53 | 13.405 | ug/L | 0.148 | 1 | 216 | 30005 | 2 | Standard |
| Mn | 55 | 141.264 | ug/L | 4.271 | 3 | 1132 | 3817155 | 1 | Standard |
| > Ge | 72 | | ug/L | | | 29835 | 28645 | 0 | KED |
| Ni | 60 | 10.447 | ug/L | 0.263 | 2 | 138 | 11499 | 2 | KED |
| Ni | 62 | 11.100 | ug/L | 0.230 | 2 | 33 | 2001 | 2 | KED |
| Cu | 63 | 20.527 | ug/L | 0.146 | 0 | 80 | 65195 | 1 | KED |
| Cu | 65 | 20.773 | ug/L | 0.196 | 0 | 24 | 32562 | 0 | KED |
| Zn | 66 | 44.922 | ug/L | 0.922 | 2 | 43 | 18086 | 1 | KED |
| Zn | 67 | 42.415 | ug/L | 2.451 | 5 | 3 | 2839 | 5 | KED |
| As | 75 | 4.938 | ug/L | 0.091 | 1 | 16 | 1049 | 2 | KED |
| Se | 78 | 0.609 | ug/L | 0.031 | 5 | 19 | 33 | 1 | KED |
| Y | 89 | | ug/L | | | 297640 | 477015 | 0 | Standard |
| Kr | 83 | | ug/L | | | 48 | 85 | 5 | Standard |
| > In-1 | 115 | | ug/L | | | 8217 | 8027 | 2 | KED |
| Cd | 111 | 0.134 | ug/L | 0.031 | 23 | 4 | 35 | 22 | KED |
| Cd | 114 | 0.132 | ug/L | 0.029 | 21 | 2 | 78 | 19 | KED |
| > In | 115 | | ug/L | | | 413136 | 384321 | 3 | Standard |
| Ag | 107 | 0.092 | ug/L | 0.008 | 8 | 89 | 1262 | 5 | Standard |
| Ba | 135 | 33.152 | ug/L | 1.159 | 3 | 37 | 106452 | 0 | Standard |
| Ba | 137 | 32.939 | ug/L | 1.103 | 3 | 46 | 187724 | 0 | Standard |
| > Tb | 159 | | ug/L | | | 720127 | 698904 | 2 | Standard |
| Pb | 208 | 9.225 | ug/L | 0.222 | 2 | 200 | 399411 | 1 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23A0179-09**

Sample Dil Factor: **20**

Comments:

Sample Date/Time: **Friday, April 07, 2023 20:20:45**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30728 | 62629 | 1 | Standard |
| Cl | 37 | | ug/L | | | 4438068 | 4267319 | 0 | Standard |
| > Sc | 45 | | ug/L | | | 546109 | 597616 | 0 | Standard |
| Cr | 52 | 12.994 | ug/L | 0.206 | 1 | 17159 | 273458 | 1 | Standard |
| Cr | 53 | 13.558 | ug/L | 0.170 | 1 | 216 | 30909 | 1 | Standard |
| Mn | 55 | 156.834 | ug/L | 2.443 | 1 | 1132 | 4318678 | 1 | Standard |
| > Ge | 72 | | ug/L | | | 29835 | 28621 | 1 | KED |
| Ni | 60 | 10.490 | ug/L | 0.232 | 2 | 138 | 11534 | 0 | KED |
| Ni | 62 | 10.443 | ug/L | 0.278 | 2 | 33 | 1882 | 1 | KED |
| Cu | 63 | 25.081 | ug/L | 0.204 | 0 | 80 | 79574 | 1 | KED |
| Cu | 65 | 24.927 | ug/L | 0.129 | 0 | 24 | 39036 | 0 | KED |
| Zn | 66 | 52.237 | ug/L | 2.407 | 4 | 43 | 21000 | 3 | KED |
| Zn | 67 | 49.963 | ug/L | 0.986 | 1 | 3 | 3340 | 0 | KED |
| As | 75 | 6.685 | ug/L | 0.170 | 2 | 16 | 1413 | 1 | KED |
| Se | 78 | 0.713 | ug/L | 0.313 | 43 | 19 | 35 | 20 | KED |
| Y | 89 | | ug/L | | | 297640 | 476118 | 3 | Standard |
| Kr | 83 | | ug/L | | | 48 | 114 | 12 | Standard |
| > In-1 | 115 | | ug/L | | | 8217 | 7812 | 1 | KED |
| Cd | 111 | 0.139 | ug/L | 0.018 | 13 | 4 | 35 | 10 | KED |
| Cd | 114 | 0.172 | ug/L | 0.026 | 15 | 2 | 100 | 16 | KED |
| > In | 115 | | ug/L | | | 413136 | 391948 | 0 | Standard |
| Ag | 107 | 0.131 | ug/L | 0.003 | 2 | 89 | 1789 | 2 | Standard |
| Ba | 135 | 37.162 | ug/L | 0.552 | 1 | 37 | 121786 | 1 | Standard |
| Ba | 137 | 36.608 | ug/L | 0.476 | 1 | 46 | 212926 | 1 | Standard |
| > Tb | 159 | | ug/L | | | 720127 | 692511 | 0 | Standard |
| Pb | 208 | 11.583 | ug/L | 0.098 | 0 | 200 | 497038 | 0 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23A0179-10**

Sample Dil Factor: **20**

Comments:

Sample Date/Time: **Friday, April 07, 2023 20:25:29**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30728 | 56795 | 3 | Standard |
| Cl | 37 | | ug/L | | | 4438068 | 4162115 | 2 | Standard |
| > Sc | 45 | | ug/L | | | 546109 | 595458 | 1 | Standard |
| Cr | 52 | 12.166 | ug/L | 0.196 | 1 | 17159 | 256302 | 1 | Standard |
| Cr | 53 | 12.533 | ug/L | 0.140 | 1 | 216 | 28486 | 0 | Standard |
| Mn | 55 | 134.074 | ug/L | 2.154 | 1 | 1132 | 3678531 | 1 | Standard |
| > Ge | 72 | | ug/L | | | 29835 | 27690 | 2 | KED |
| Ni | 60 | 10.789 | ug/L | 0.227 | 2 | 138 | 11473 | 0 | KED |
| Ni | 62 | 11.407 | ug/L | 0.692 | 6 | 33 | 1985 | 3 | KED |
| Cu | 63 | 27.591 | ug/L | 0.543 | 1 | 80 | 84668 | 1 | KED |
| Cu | 65 | 27.455 | ug/L | 0.465 | 1 | 24 | 41589 | 0 | KED |
| Zn | 66 | 54.253 | ug/L | 1.739 | 3 | 43 | 21100 | 1 | KED |
| Zn | 67 | 52.540 | ug/L | 0.887 | 1 | 3 | 3397 | 0 | KED |
| As | 75 | 6.775 | ug/L | 0.140 | 2 | 16 | 1385 | 0 | KED |
| Se | 78 | 0.828 | ug/L | 0.214 | 25 | 19 | 37 | 10 | KED |
| Y | 89 | | ug/L | | | 297640 | 472114 | 4 | Standard |
| Kr | 83 | | ug/L | | | 48 | 113 | 27 | Standard |
| > In-1 | 115 | | ug/L | | | 8217 | 7718 | 2 | KED |
| Cd | 111 | 0.178 | ug/L | 0.024 | 13 | 4 | 44 | 14 | KED |
| Cd | 114 | 0.174 | ug/L | 0.014 | 8 | 2 | 99 | 8 | KED |
| > In | 115 | | ug/L | | | 413136 | 384313 | 1 | Standard |
| Ag | 107 | 0.123 | ug/L | 0.001 | 0 | 89 | 1660 | 1 | Standard |
| Ba | 135 | 35.517 | ug/L | 0.262 | 0 | 37 | 114129 | 0 | Standard |
| Ba | 137 | 34.818 | ug/L | 1.098 | 3 | 46 | 198524 | 1 | Standard |
| > Tb | 159 | | ug/L | | | 720127 | 704574 | 1 | Standard |
| Pb | 208 | 11.867 | ug/L | 0.223 | 1 | 200 | 518020 | 0 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL7

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, April 07, 2023 20:30:13

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30728 | 31700 | 1 | Standard |
| Cl | 37 | | ug/L | | | 4438068 | 3955662 | 1 | Standard |
| [> Sc | 45 | | ug/L | | | 546109 | 475846 | 1 | Standard |
| Cr | 52 | -0.030 | ug/L | 0.002 | 8 | 17159 | 14476 | 1 | Standard |
| Cr | 53 | -0.023 | ug/L | 0.006 | 25 | 216 | 146 | 5 | Standard |
| Mn | 55 | -0.007 | ug/L | 0.004 | 56 | 1132 | 824 | 9 | Standard |
| [> Ge | 72 | | ug/L | | | 29835 | 27184 | 1 | KED |
| Ni | 60 | -0.101 | ug/L | 0.004 | 4 | 138 | 22 | 21 | KED |
| Ni | 62 | -0.129 | ug/L | 0.029 | 22 | 33 | 8 | 53 | KED |
| Cu | 63 | 0.031 | ug/L | 0.008 | 26 | 80 | 168 | 15 | KED |
| Cu | 65 | 0.035 | ug/L | 0.006 | 16 | 24 | 74 | 12 | KED |
| Zn | 66 | -0.007 | ug/L | 0.014 | 211 | 43 | 36 | 15 | KED |
| Zn | 67 | 0.126 | ug/L | 0.062 | 49 | 3 | 11 | 33 | KED |
| As | 75 | -0.049 | ug/L | 0.006 | 11 | 16 | 5 | 23 | KED |
| Se | 78 | -0.065 | ug/L | 0.159 | 245 | 19 | 16 | 22 | KED |
| Y | 89 | | ug/L | | | 297640 | 268215 | 0 | Standard |
| Kr | 83 | | ug/L | | | 48 | 44 | 17 | Standard |
| [> In-1 | 115 | | ug/L | | | 8217 | 7723 | 2 | KED |
| Cd | 111 | 0.008 | ug/L | 0.010 | 131 | 4 | 5 | 44 | KED |
| Cd | 114 | -0.002 | ug/L | 0.002 | 100 | 2 | 1 | 94 | KED |
| [> In | 115 | | ug/L | | | 413136 | 375112 | 0 | Standard |
| Ag | 107 | -0.004 | ug/L | 0.000 | 6 | 89 | 33 | 8 | Standard |
| Ba | 135 | 0.004 | ug/L | 0.002 | 38 | 37 | 46 | 10 | Standard |
| Ba | 137 | 0.006 | ug/L | 0.002 | 30 | 46 | 73 | 13 | Standard |
| [> Tb | 159 | | ug/L | | | 720127 | 638321 | 2 | Standard |
| Pb | 208 | -0.001 | ug/L | 0.001 | 71 | 200 | 133 | 20 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV7

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, April 07, 2023 20:34:58

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30728 | 30314 | 1 | Standard |
| Cl | 37 | | ug/L | | | 4438068 | 4229055 | 3 | Standard |
| [> Sc | 45 | | ug/L | | | 546109 | 487772 | 0 | Standard |
| Cr | 52 | 51.215 | ug/L | 1.395 | 2 | 17159 | 834716 | 3 | Standard |
| Cr | 53 | 51.869 | ug/L | 1.168 | 2 | 216 | 95975 | 2 | Standard |
| Mn | 55 | 50.580 | ug/L | 0.627 | 1 | 1132 | 1137482 | 1 | Standard |
| [> Ge | 72 | | ug/L | | | 29835 | 28182 | 1 | KED |
| Ni | 60 | 48.359 | ug/L | 1.019 | 2 | 138 | 51887 | 1 | KED |
| Ni | 62 | 48.114 | ug/L | 0.776 | 1 | 33 | 8427 | 1 | KED |
| Cu | 63 | 48.204 | ug/L | 0.915 | 1 | 80 | 150498 | 1 | KED |
| Cu | 65 | 48.332 | ug/L | 1.303 | 2 | 24 | 74492 | 1 | KED |
| Zn | 66 | 49.938 | ug/L | 1.831 | 3 | 43 | 19770 | 2 | KED |
| Zn | 67 | 49.313 | ug/L | 1.131 | 2 | 3 | 3247 | 3 | KED |
| As | 75 | 49.272 | ug/L | 0.640 | 1 | 16 | 10159 | 0 | KED |
| [Se | 78 | 48.617 | ug/L | 0.429 | 0 | 19 | 1142 | 1 | KED |
| Y | 89 | | ug/L | | | 297640 | 273611 | 3 | Standard |
| Kr | 83 | | ug/L | | | 48 | 41 | 12 | Standard |
| [> In-1 | 115 | | ug/L | | | 8217 | 7829 | 2 | KED |
| Cd | 111 | 49.138 | ug/L | 1.646 | 3 | 4 | 11360 | 1 | KED |
| [Cd | 114 | 49.784 | ug/L | 1.408 | 2 | 2 | 28315 | 0 | KED |
| [> In | 115 | | ug/L | | | 413136 | 378734 | 3 | Standard |
| Ag | 107 | 51.994 | ug/L | 1.201 | 2 | 89 | 656217 | 2 | Standard |
| Ba | 135 | 52.612 | ug/L | 1.892 | 3 | 37 | 166466 | 0 | Standard |
| [Ba | 137 | 51.857 | ug/L | 2.262 | 4 | 46 | 291162 | 0 | Standard |
| [> Tb | 159 | | ug/L | | | 720127 | 664425 | 1 | Standard |
| [Pb | 208 | 50.285 | ug/L | 1.042 | 2 | 200 | 2069261 | 0 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB7

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, April 07, 2023 20:42:26

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30728 | 30091 | 2 | Standard |
| Cl | 37 | | ug/L | | | 4438068 | 4081874 | 1 | Standard |
| [> Sc | 45 | | ug/L | | | 546109 | 455662 | 7 | Standard |
| Cr | 52 | 0.003 | ug/L | 0.050 | 1820 | 17159 | 14320 | 3 | Standard |
| Cr | 53 | -0.023 | ug/L | 0.011 | 45 | 216 | 140 | 12 | Standard |
| Mn | 55 | -0.008 | ug/L | 0.006 | 81 | 1132 | 776 | 8 | Standard |
| [> Ge | 72 | | ug/L | | | 29835 | 26830 | 1 | KED |
| Ni | 60 | -0.095 | ug/L | 0.005 | 5 | 138 | 27 | 17 | KED |
| Ni | 62 | -0.121 | ug/L | 0.014 | 11 | 33 | 10 | 21 | KED |
| Cu | 63 | -0.006 | ug/L | 0.003 | 39 | 80 | 53 | 12 | KED |
| Cu | 65 | 0.000 | ug/L | 0.003 | 867 | 24 | 22 | 22 | KED |
| Zn | 66 | -0.043 | ug/L | 0.022 | 50 | 43 | 22 | 36 | KED |
| Zn | 67 | 0.006 | ug/L | 0.030 | 498 | 3 | 3 | 50 | KED |
| As | 75 | -0.052 | ug/L | 0.001 | 2 | 16 | 4 | 6 | KED |
| Se | 78 | -0.154 | ug/L | 0.115 | 74 | 19 | 14 | 18 | KED |
| Y | 89 | | ug/L | | | 297640 | 256125 | 6 | Standard |
| Kr | 83 | | ug/L | | | 48 | 43 | 33 | Standard |
| [> In-1 | 115 | | ug/L | | | 8217 | 7309 | 2 | KED |
| Cd | 111 | 0.005 | ug/L | 0.008 | 168 | 4 | 4 | 40 | KED |
| Cd | 114 | 0.003 | ug/L | 0.004 | 129 | 2 | 3 | 53 | KED |
| [> In | 115 | | ug/L | | | 413136 | 367898 | 4 | Standard |
| Ag | 107 | 0.002 | ug/L | 0.004 | 201 | 89 | 102 | 41 | Standard |
| Ba | 135 | -0.002 | ug/L | 0.003 | 155 | 37 | 26 | 31 | Standard |
| Ba | 137 | -0.000 | ug/L | 0.005 | 1209 | 46 | 38 | 65 | Standard |
| [> Tb | 159 | | ug/L | | | 720127 | 628462 | 8 | Standard |
| Pb | 208 | 0.003 | ug/L | 0.004 | 151 | 200 | 278 | 49 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23A0179-11**

Sample Dil Factor: **20**

Comments:

Sample Date/Time: **Friday, April 07, 2023 20:47:11**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30728 | 57804 | 2 | Standard |
| Cl | 37 | | ug/L | | | 4438068 | 4137395 | 2 | Standard |
| > Sc | 45 | | ug/L | | | 546109 | 610424 | 0 | Standard |
| Cr | 52 | 13.129 | ug/L | 0.164 | 1 | 17159 | 282031 | 1 | Standard |
| Cr | 53 | 13.307 | ug/L | 0.026 | 0 | 216 | 30991 | 0 | Standard |
| Mn | 55 | 156.452 | ug/L | 3.310 | 2 | 1132 | 4400394 | 1 | Standard |
| > Ge | 72 | | ug/L | | | 29835 | 28517 | 3 | KED |
| Ni | 60 | 11.708 | ug/L | 0.650 | 5 | 138 | 12796 | 2 | KED |
| Ni | 62 | 12.090 | ug/L | 0.526 | 4 | 33 | 2166 | 5 | KED |
| Cu | 63 | 28.948 | ug/L | 0.397 | 1 | 80 | 91470 | 2 | KED |
| Cu | 65 | 29.318 | ug/L | 1.103 | 3 | 24 | 45706 | 1 | KED |
| Zn | 66 | 53.920 | ug/L | 1.420 | 2 | 43 | 21592 | 2 | KED |
| Zn | 67 | 53.999 | ug/L | 1.007 | 1 | 3 | 3596 | 3 | KED |
| As | 75 | 6.031 | ug/L | 0.274 | 4 | 16 | 1270 | 1 | KED |
| Se | 78 | 0.861 | ug/L | 0.152 | 17 | 19 | 39 | 5 | KED |
| Y | 89 | | ug/L | | | 297640 | 484931 | 1 | Standard |
| Kr | 83 | | ug/L | | | 48 | 99 | 9 | Standard |
| > In-1 | 115 | | ug/L | | | 8217 | 7700 | 1 | KED |
| Cd | 111 | 0.168 | ug/L | 0.014 | 8 | 4 | 42 | 9 | KED |
| Cd | 114 | 0.182 | ug/L | 0.017 | 9 | 2 | 104 | 7 | KED |
| > In | 115 | | ug/L | | | 413136 | 393797 | 0 | Standard |
| Ag | 107 | 0.133 | ug/L | 0.004 | 3 | 89 | 1836 | 3 | Standard |
| Ba | 135 | 40.122 | ug/L | 0.792 | 1 | 37 | 132106 | 1 | Standard |
| Ba | 137 | 40.243 | ug/L | 0.312 | 0 | 46 | 235183 | 0 | Standard |
| > Tb | 159 | | ug/L | | | 720127 | 704426 | 1 | Standard |
| Pb | 208 | 12.352 | ug/L | 0.176 | 1 | 200 | 539160 | 1 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23A0179-12**

Sample Dil Factor: **20**

Comments:

Sample Date/Time: **Friday, April 07, 2023 20:51:55**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30728 | 56180 | 2 | Standard |
| Cl | 37 | | ug/L | | | 4438068 | 4123823 | 2 | Standard |
| > Sc | 45 | | ug/L | | | 546109 | 600392 | 0 | Standard |
| Cr | 52 | 12.563 | ug/L | 0.082 | 0 | 17159 | 266260 | 1 | Standard |
| Cr | 53 | 12.495 | ug/L | 0.064 | 0 | 216 | 28637 | 0 | Standard |
| Mn | 55 | 143.280 | ug/L | 0.971 | 0 | 1132 | 3963837 | 0 | Standard |
| > Ge | 72 | | ug/L | | | 29835 | 28415 | 1 | KED |
| Ni | 60 | 10.894 | ug/L | 0.201 | 1 | 138 | 11891 | 3 | KED |
| Ni | 62 | 11.000 | ug/L | 0.781 | 7 | 33 | 1966 | 5 | KED |
| Cu | 63 | 25.345 | ug/L | 0.503 | 1 | 80 | 79821 | 1 | KED |
| Cu | 65 | 25.212 | ug/L | 0.364 | 1 | 24 | 39195 | 0 | KED |
| Zn | 66 | 49.542 | ug/L | 1.036 | 2 | 43 | 19779 | 0 | KED |
| Zn | 67 | 47.406 | ug/L | 0.356 | 0 | 3 | 3147 | 1 | KED |
| As | 75 | 5.273 | ug/L | 0.221 | 4 | 16 | 1109 | 3 | KED |
| Se | 78 | 0.636 | ug/L | 0.133 | 20 | 19 | 33 | 8 | KED |
| Y | 89 | | ug/L | | | 297640 | 480932 | 3 | Standard |
| Kr | 83 | | ug/L | | | 48 | 85 | 5 | Standard |
| > In-1 | 115 | | ug/L | | | 8217 | 7605 | 2 | KED |
| Cd | 111 | 0.156 | ug/L | 0.025 | 16 | 4 | 38 | 14 | KED |
| Cd | 114 | 0.170 | ug/L | 0.010 | 5 | 2 | 96 | 6 | KED |
| > In | 115 | | ug/L | | | 413136 | 389672 | 2 | Standard |
| Ag | 107 | 0.127 | ug/L | 0.004 | 2 | 89 | 1737 | 0 | Standard |
| Ba | 135 | 35.504 | ug/L | 0.565 | 1 | 37 | 115669 | 1 | Standard |
| Ba | 137 | 36.185 | ug/L | 0.855 | 2 | 46 | 209184 | 0 | Standard |
| > Tb | 159 | | ug/L | | | 720127 | 687552 | 0 | Standard |
| Pb | 208 | 12.244 | ug/L | 0.046 | 0 | 200 | 521664 | 0 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23A0180-01**

Sample Dil Factor: **20**

Comments:

Sample Date/Time: **Friday, April 07, 2023 20:56:39**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30728 | 58755 | 2 | Standard |
| Cl | 37 | | ug/L | | | 4438068 | 4187119 | 1 | Standard |
| > Sc | 45 | | ug/L | | | 546109 | 614220 | 1 | Standard |
| Cr | 52 | 15.218 | ug/L | 0.233 | 1 | 17159 | 325879 | 1 | Standard |
| Cr | 53 | 15.306 | ug/L | 0.231 | 1 | 216 | 35832 | 1 | Standard |
| Mn | 55 | 140.006 | ug/L | 1.709 | 1 | 1132 | 3962242 | 0 | Standard |
| > Ge | 72 | | ug/L | | | 29835 | 28255 | 1 | KED |
| Ni | 60 | 12.559 | ug/L | 0.328 | 2 | 138 | 13610 | 3 | KED |
| Ni | 62 | 12.685 | ug/L | 0.377 | 2 | 33 | 2250 | 2 | KED |
| Cu | 63 | 34.908 | ug/L | 0.361 | 1 | 80 | 109305 | 2 | KED |
| Cu | 65 | 34.631 | ug/L | 0.481 | 1 | 24 | 53527 | 1 | KED |
| Zn | 66 | 65.298 | ug/L | 2.239 | 3 | 43 | 25907 | 2 | KED |
| Zn | 67 | 64.893 | ug/L | 1.370 | 2 | 3 | 4281 | 0 | KED |
| As | 75 | 5.951 | ug/L | 0.254 | 4 | 16 | 1243 | 3 | KED |
| Se | 78 | 0.992 | ug/L | 0.118 | 11 | 19 | 41 | 6 | KED |
| Y | 89 | | ug/L | | | 297640 | 510191 | 0 | Standard |
| Kr | 83 | | ug/L | | | 48 | 113 | 9 | Standard |
| > In-1 | 115 | | ug/L | | | 8217 | 7790 | 0 | KED |
| Cd | 111 | 0.259 | ug/L | 0.026 | 10 | 4 | 63 | 9 | KED |
| Cd | 114 | 0.255 | ug/L | 0.034 | 13 | 2 | 146 | 13 | KED |
| > In | 115 | | ug/L | | | 413136 | 388132 | 1 | Standard |
| Ag | 107 | 0.206 | ug/L | 0.003 | 1 | 89 | 2743 | 2 | Standard |
| Ba | 135 | 45.476 | ug/L | 0.974 | 2 | 37 | 147562 | 1 | Standard |
| Ba | 137 | 45.766 | ug/L | 1.002 | 2 | 46 | 263553 | 1 | Standard |
| > Tb | 159 | | ug/L | | | 720127 | 696444 | 1 | Standard |
| Pb | 208 | 20.703 | ug/L | 0.297 | 1 | 200 | 893233 | 0 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23A0180-02**

Sample Dil Factor: **20**

Comments:

Sample Date/Time: **Friday, April 07, 2023 21:01:23**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30728 | 60249 | 0 | Standard |
| Cl | 37 | | ug/L | | | 4438068 | 4148651 | 0 | Standard |
| > Sc | 45 | | ug/L | | | 546109 | 626103 | 1 | Standard |
| Cr | 52 | 14.692 | ug/L | 0.220 | 1 | 17159 | 321375 | 1 | Standard |
| Cr | 53 | 14.824 | ug/L | 0.250 | 1 | 216 | 35377 | 0 | Standard |
| Mn | 55 | 140.817 | ug/L | 0.319 | 0 | 1132 | 4062698 | 1 | Standard |
| > Ge | 72 | | ug/L | | | 29835 | 28067 | 0 | KED |
| Ni | 60 | 13.181 | ug/L | 0.024 | 0 | 138 | 14182 | 0 | KED |
| Ni | 62 | 13.555 | ug/L | 0.655 | 4 | 33 | 2387 | 4 | KED |
| Cu | 63 | 34.547 | ug/L | 0.844 | 2 | 80 | 107456 | 2 | KED |
| Cu | 65 | 35.117 | ug/L | 0.506 | 1 | 24 | 53925 | 1 | KED |
| Zn | 66 | 66.433 | ug/L | 1.254 | 1 | 43 | 26189 | 1 | KED |
| Zn | 67 | 63.332 | ug/L | 2.121 | 3 | 3 | 4151 | 3 | KED |
| As | 75 | 6.564 | ug/L | 0.189 | 2 | 16 | 1361 | 2 | KED |
| Se | 78 | 1.022 | ug/L | 0.162 | 15 | 19 | 42 | 9 | KED |
| Y | 89 | | ug/L | | | 297640 | 514366 | 3 | Standard |
| Kr | 83 | | ug/L | | | 48 | 93 | 7 | Standard |
| > In-1 | 115 | | ug/L | | | 8217 | 7900 | 2 | KED |
| Cd | 111 | 0.246 | ug/L | 0.040 | 16 | 4 | 61 | 17 | KED |
| Cd | 114 | 0.231 | ug/L | 0.040 | 17 | 2 | 135 | 19 | KED |
| > In | 115 | | ug/L | | | 413136 | 382391 | 1 | Standard |
| Ag | 107 | 0.240 | ug/L | 0.007 | 2 | 89 | 3143 | 2 | Standard |
| Ba | 135 | 46.457 | ug/L | 0.084 | 0 | 37 | 148535 | 1 | Standard |
| Ba | 137 | 45.863 | ug/L | 0.858 | 1 | 46 | 260208 | 0 | Standard |
| > Tb | 159 | | ug/L | | | 720127 | 689600 | 1 | Standard |
| Pb | 208 | 20.930 | ug/L | 0.037 | 0 | 200 | 894240 | 1 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23A0180-03**

Sample Dil Factor: **20**

Comments:

Sample Date/Time: **Friday, April 07, 2023 21:06:07**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30728 | 55168 | 3 | Standard |
| Cl | 37 | | ug/L | | | 4438068 | 4174102 | 1 | Standard |
| > Sc | 45 | | ug/L | | | 546109 | 607263 | 2 | Standard |
| Cr | 52 | 13.816 | ug/L | 0.541 | 3 | 17159 | 294090 | 1 | Standard |
| Cr | 53 | 14.242 | ug/L | 0.463 | 3 | 216 | 32964 | 1 | Standard |
| Mn | 55 | 143.272 | ug/L | 5.285 | 3 | 1132 | 4006901 | 1 | Standard |
| > Ge | 72 | | ug/L | | | 29835 | 27817 | 3 | KED |
| Ni | 60 | 12.254 | ug/L | 0.204 | 1 | 138 | 13072 | 1 | KED |
| Ni | 62 | 12.226 | ug/L | 0.236 | 1 | 33 | 2137 | 3 | KED |
| Cu | 63 | 29.776 | ug/L | 0.978 | 3 | 80 | 91751 | 2 | KED |
| Cu | 65 | 30.333 | ug/L | 0.493 | 1 | 24 | 46151 | 2 | KED |
| Zn | 66 | 57.888 | ug/L | 1.864 | 3 | 43 | 22607 | 0 | KED |
| Zn | 67 | 55.104 | ug/L | 2.560 | 4 | 3 | 3576 | 1 | KED |
| As | 75 | 5.994 | ug/L | 0.080 | 1 | 16 | 1233 | 2 | KED |
| Se | 78 | 0.877 | ug/L | 0.110 | 12 | 19 | 38 | 9 | KED |
| Y | 89 | | ug/L | | | 297640 | 515143 | 1 | Standard |
| Kr | 83 | | ug/L | | | 48 | 101 | 13 | Standard |
| > In-1 | 115 | | ug/L | | | 8217 | 7752 | 0 | KED |
| Cd | 111 | 0.187 | ug/L | 0.012 | 6 | 4 | 46 | 6 | KED |
| Cd | 114 | 0.200 | ug/L | 0.008 | 4 | 2 | 114 | 4 | KED |
| > In | 115 | | ug/L | | | 413136 | 390052 | 1 | Standard |
| Ag | 107 | 0.148 | ug/L | 0.012 | 8 | 89 | 2005 | 6 | Standard |
| Ba | 135 | 37.630 | ug/L | 0.782 | 2 | 37 | 122705 | 1 | Standard |
| Ba | 137 | 37.654 | ug/L | 0.424 | 1 | 46 | 217929 | 0 | Standard |
| > Tb | 159 | | ug/L | | | 720127 | 689429 | 1 | Standard |
| Pb | 208 | 15.142 | ug/L | 0.097 | 0 | 200 | 646815 | 0 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23A0180-04**

Sample Dil Factor: **20**

Comments:

Sample Date/Time: **Friday, April 07, 2023 21:10:51**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30728 | 59622 | 1 | Standard |
| Cl | 37 | | ug/L | | | 4438068 | 4190939 | 3 | Standard |
| > Sc | 45 | | ug/L | | | 546109 | 630148 | 0 | Standard |
| Cr | 52 | 15.629 | ug/L | 0.101 | 0 | 17159 | 342826 | 0 | Standard |
| Cr | 53 | 15.771 | ug/L | 0.361 | 2 | 216 | 37870 | 1 | Standard |
| Mn | 55 | 139.142 | ug/L | 2.372 | 1 | 1132 | 4040061 | 1 | Standard |
| > Ge | 72 | | ug/L | | | 29835 | 27748 | 1 | KED |
| Ni | 60 | 14.094 | ug/L | 0.096 | 0 | 138 | 14984 | 1 | KED |
| Ni | 62 | 14.415 | ug/L | 0.137 | 0 | 33 | 2508 | 0 | KED |
| Cu | 63 | 31.356 | ug/L | 0.142 | 0 | 80 | 96431 | 0 | KED |
| Cu | 65 | 32.684 | ug/L | 0.727 | 2 | 24 | 49621 | 2 | KED |
| Zn | 66 | 63.141 | ug/L | 1.005 | 1 | 43 | 24613 | 2 | KED |
| Zn | 67 | 59.045 | ug/L | 0.744 | 1 | 3 | 3827 | 2 | KED |
| As | 75 | 5.417 | ug/L | 0.124 | 2 | 16 | 1113 | 3 | KED |
| Se | 78 | 1.043 | ug/L | 0.255 | 24 | 19 | 42 | 13 | KED |
| Y | 89 | | ug/L | | | 297640 | 548225 | 1 | Standard |
| Kr | 83 | | ug/L | | | 48 | 125 | 4 | Standard |
| > In-1 | 115 | | ug/L | | | 8217 | 7577 | 1 | KED |
| Cd | 111 | 0.228 | ug/L | 0.049 | 21 | 4 | 54 | 21 | KED |
| Cd | 114 | 0.234 | ug/L | 0.011 | 4 | 2 | 131 | 6 | KED |
| > In | 115 | | ug/L | | | 413136 | 384812 | 2 | Standard |
| Ag | 107 | 0.180 | ug/L | 0.004 | 1 | 89 | 2394 | 2 | Standard |
| Ba | 135 | 46.541 | ug/L | 1.081 | 2 | 37 | 149693 | 0 | Standard |
| Ba | 137 | 46.592 | ug/L | 1.450 | 3 | 46 | 265929 | 0 | Standard |
| > Tb | 159 | | ug/L | | | 720127 | 697762 | 1 | Standard |
| Pb | 208 | 18.594 | ug/L | 0.203 | 1 | 200 | 803812 | 0 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23A0206-03**

Sample Dil Factor: **20**

Comments:

Sample Date/Time: **Friday, April 07, 2023 21:15:35**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30728 | 53084 | 0 | Standard |
| Cl | 37 | | ug/L | | | 4438068 | 4169023 | 1 | Standard |
| > Sc | 45 | | ug/L | | | 546109 | 603980 | 1 | Standard |
| Cr | 52 | 13.866 | ug/L | 0.305 | 2 | 17159 | 293589 | 0 | Standard |
| Cr | 53 | 14.073 | ug/L | 0.235 | 1 | 216 | 32412 | 0 | Standard |
| Mn | 55 | 169.138 | ug/L | 3.378 | 1 | 1132 | 4706223 | 1 | Standard |
| > Ge | 72 | | ug/L | | | 29835 | 28148 | 0 | KED |
| Ni | 60 | 11.904 | ug/L | 0.025 | 0 | 138 | 12858 | 0 | KED |
| Ni | 62 | 12.291 | ug/L | 0.347 | 2 | 33 | 2174 | 3 | KED |
| Cu | 63 | 29.623 | ug/L | 0.752 | 2 | 80 | 92407 | 1 | KED |
| Cu | 65 | 29.789 | ug/L | 0.290 | 0 | 24 | 45880 | 1 | KED |
| Zn | 66 | 58.036 | ug/L | 0.896 | 1 | 43 | 22948 | 0 | KED |
| Zn | 67 | 54.759 | ug/L | 1.867 | 3 | 3 | 3600 | 3 | KED |
| As | 75 | 6.444 | ug/L | 0.151 | 2 | 16 | 1340 | 1 | KED |
| Se | 78 | 0.933 | ug/L | 0.136 | 14 | 19 | 40 | 8 | KED |
| Y | 89 | | ug/L | | | 297640 | 498878 | 1 | Standard |
| Kr | 83 | | ug/L | | | 48 | 105 | 26 | Standard |
| > In-1 | 115 | | ug/L | | | 8217 | 7533 | 0 | KED |
| Cd | 111 | 0.186 | ug/L | 0.025 | 13 | 4 | 45 | 12 | KED |
| Cd | 114 | 0.187 | ug/L | 0.017 | 9 | 2 | 104 | 9 | KED |
| > In | 115 | | ug/L | | | 413136 | 385942 | 0 | Standard |
| Ag | 107 | 0.133 | ug/L | 0.009 | 6 | 89 | 1800 | 6 | Standard |
| Ba | 135 | 36.617 | ug/L | 0.514 | 1 | 37 | 118165 | 1 | Standard |
| Ba | 137 | 36.298 | ug/L | 0.517 | 1 | 46 | 207888 | 1 | Standard |
| > Tb | 159 | | ug/L | | | 720127 | 690623 | 0 | Standard |
| Pb | 208 | 14.103 | ug/L | 0.204 | 1 | 200 | 603451 | 0 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23A0206-04**

Sample Dil Factor: **20**

Comments:

Sample Date/Time: **Friday, April 07, 2023 21:20:19**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30728 | 50485 | 2 | Standard |
| Cl | 37 | | ug/L | | | 4438068 | 4104982 | 1 | Standard |
| > Sc | 45 | | ug/L | | | 546109 | 580162 | 0 | Standard |
| Cr | 52 | 12.588 | ug/L | 0.047 | 0 | 17159 | 257762 | 0 | Standard |
| Cr | 53 | 12.932 | ug/L | 0.280 | 2 | 216 | 28630 | 1 | Standard |
| Mn | 55 | 144.733 | ug/L | 1.939 | 1 | 1132 | 3869191 | 1 | Standard |
| > Ge | 72 | | ug/L | | | 29835 | 28094 | 1 | KED |
| Ni | 60 | 10.106 | ug/L | 0.105 | 1 | 138 | 10914 | 1 | KED |
| Ni | 62 | 10.384 | ug/L | 0.537 | 5 | 33 | 1837 | 4 | KED |
| Cu | 63 | 25.272 | ug/L | 0.474 | 1 | 80 | 78689 | 0 | KED |
| Cu | 65 | 25.830 | ug/L | 0.683 | 2 | 24 | 39700 | 2 | KED |
| Zn | 66 | 51.560 | ug/L | 1.758 | 3 | 43 | 20347 | 1 | KED |
| Zn | 67 | 50.190 | ug/L | 1.605 | 3 | 3 | 3293 | 1 | KED |
| As | 75 | 6.141 | ug/L | 0.142 | 2 | 16 | 1276 | 3 | KED |
| Se | 78 | 0.613 | ug/L | 0.199 | 32 | 19 | 32 | 14 | KED |
| Y | 89 | | ug/L | | | 297640 | 455672 | 1 | Standard |
| Kr | 83 | | ug/L | | | 48 | 85 | 3 | Standard |
| > In-1 | 115 | | ug/L | | | 8217 | 7595 | 4 | KED |
| Cd | 111 | 0.166 | ug/L | 0.022 | 13 | 4 | 40 | 8 | KED |
| Cd | 114 | 0.172 | ug/L | 0.010 | 5 | 2 | 97 | 8 | KED |
| > In | 115 | | ug/L | | | 413136 | 388494 | 1 | Standard |
| Ag | 107 | 0.108 | ug/L | 0.004 | 3 | 89 | 1484 | 1 | Standard |
| Ba | 135 | 31.878 | ug/L | 0.415 | 1 | 37 | 103549 | 1 | Standard |
| Ba | 137 | 32.032 | ug/L | 1.146 | 3 | 46 | 184603 | 1 | Standard |
| > Tb | 159 | | ug/L | | | 720127 | 681438 | 0 | Standard |
| Pb | 208 | 11.520 | ug/L | 0.123 | 1 | 200 | 486475 | 1 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23A0206-05**

Sample Dil Factor: **20**

Comments:

Sample Date/Time: **Friday, April 07, 2023 21:25:03**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30728 | 52660 | 1 | Standard |
| Cl | 37 | | ug/L | | | 4438068 | 4195273 | 1 | Standard |
| > Sc | 45 | | ug/L | | | 546109 | 591605 | 0 | Standard |
| Cr | 52 | 14.262 | ug/L | 0.048 | 0 | 17159 | 295320 | 0 | Standard |
| Cr | 53 | 14.694 | ug/L | 0.425 | 2 | 216 | 33142 | 2 | Standard |
| Mn | 55 | 145.119 | ug/L | 0.449 | 0 | 1132 | 3956036 | 0 | Standard |
| > Ge | 72 | | ug/L | | | 29835 | 27974 | 1 | KED |
| Ni | 60 | 11.805 | ug/L | 0.088 | 0 | 138 | 12672 | 1 | KED |
| Ni | 62 | 11.642 | ug/L | 0.278 | 2 | 33 | 2047 | 1 | KED |
| Cu | 63 | 28.150 | ug/L | 0.399 | 1 | 80 | 87283 | 2 | KED |
| Cu | 65 | 28.139 | ug/L | 0.363 | 1 | 24 | 43064 | 0 | KED |
| Zn | 66 | 56.923 | ug/L | 1.200 | 2 | 43 | 22367 | 0 | KED |
| Zn | 67 | 55.388 | ug/L | 2.742 | 4 | 3 | 3619 | 5 | KED |
| As | 75 | 4.991 | ug/L | 0.095 | 1 | 16 | 1035 | 0 | KED |
| Se | 78 | 0.831 | ug/L | 0.166 | 19 | 19 | 37 | 9 | KED |
| Y | 89 | | ug/L | | | 297640 | 487769 | 0 | Standard |
| Kr | 83 | | ug/L | | | 48 | 107 | 11 | Standard |
| > In-1 | 115 | | ug/L | | | 8217 | 7540 | 3 | KED |
| Cd | 111 | 0.179 | ug/L | 0.035 | 19 | 4 | 43 | 14 | KED |
| Cd | 114 | 0.183 | ug/L | 0.028 | 15 | 2 | 102 | 14 | KED |
| > In | 115 | | ug/L | | | 413136 | 380188 | 0 | Standard |
| Ag | 107 | 0.123 | ug/L | 0.001 | 0 | 89 | 1639 | 1 | Standard |
| Ba | 135 | 35.402 | ug/L | 0.891 | 2 | 37 | 112528 | 1 | Standard |
| Ba | 137 | 35.971 | ug/L | 0.609 | 1 | 46 | 202953 | 1 | Standard |
| > Tb | 159 | | ug/L | | | 720127 | 683695 | 0 | Standard |
| Pb | 208 | 13.158 | ug/L | 0.052 | 0 | 200 | 557435 | 0 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL8

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, April 07, 2023 21:29:47

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30728 | 32204 | 4 | Standard |
| Cl | 37 | | ug/L | | | 4438068 | 3926310 | 1 | Standard |
| [> Sc | 45 | | ug/L | | | 546109 | 462171 | 1 | Standard |
| Cr | 52 | 0.007 | ug/L | 0.015 | 227 | 17159 | 14620 | 1 | Standard |
| Cr | 53 | -0.022 | ug/L | 0.016 | 73 | 216 | 145 | 17 | Standard |
| Mn | 55 | 0.028 | ug/L | 0.054 | 197 | 1132 | 1533 | 73 | Standard |
| [> Ge | 72 | | ug/L | | | 29835 | 26794 | 1 | KED |
| Ni | 60 | -0.100 | ug/L | 0.004 | 3 | 138 | 22 | 16 | KED |
| Ni | 62 | -0.129 | ug/L | 0.017 | 12 | 33 | 8 | 32 | KED |
| Cu | 63 | 0.032 | ug/L | 0.003 | 10 | 80 | 167 | 7 | KED |
| Cu | 65 | 0.039 | ug/L | 0.011 | 28 | 24 | 79 | 20 | KED |
| Zn | 66 | -0.005 | ug/L | 0.027 | 485 | 43 | 36 | 28 | KED |
| Zn | 67 | 0.098 | ug/L | 0.133 | 135 | 3 | 9 | 87 | KED |
| As | 75 | -0.053 | ug/L | 0.006 | 11 | 16 | 4 | 29 | KED |
| Se | 78 | -0.022 | ug/L | 0.116 | 527 | 19 | 17 | 12 | KED |
| Y | 89 | | ug/L | | | 297640 | 260647 | 1 | Standard |
| Kr | 83 | | ug/L | | | 48 | 43 | 24 | Standard |
| [> In-1 | 115 | | ug/L | | | 8217 | 7455 | 3 | KED |
| Cd | 111 | -0.001 | ug/L | 0.003 | 257 | 4 | 3 | 15 | KED |
| Cd | 114 | 0.004 | ug/L | 0.005 | 134 | 2 | 4 | 68 | KED |
| [> In | 115 | | ug/L | | | 413136 | 367962 | 2 | Standard |
| Ag | 107 | -0.004 | ug/L | 0.001 | 33 | 89 | 31 | 49 | Standard |
| Ba | 135 | 0.010 | ug/L | 0.010 | 101 | 37 | 64 | 48 | Standard |
| Ba | 137 | 0.013 | ug/L | 0.010 | 77 | 46 | 114 | 48 | Standard |
| [> Tb | 159 | | ug/L | | | 720127 | 638939 | 2 | Standard |
| Pb | 208 | 0.002 | ug/L | 0.003 | 184 | 200 | 248 | 51 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV8

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, April 07, 2023 21:34:32

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30728 | 30768 | 1 | Standard |
| Cl | 37 | | ug/L | | | 4438068 | 4131544 | 2 | Standard |
| [> Sc | 45 | | ug/L | | | 546109 | 479815 | 0 | Standard |
| Cr | 52 | 51.397 | ug/L | 1.316 | 2 | 17159 | 823911 | 2 | Standard |
| Cr | 53 | 51.185 | ug/L | 2.069 | 4 | 216 | 93151 | 3 | Standard |
| Mn | 55 | 51.821 | ug/L | 0.953 | 1 | 1132 | 1146303 | 1 | Standard |
| [> Ge | 72 | | ug/L | | | 29835 | 27164 | 1 | KED |
| Ni | 60 | 48.023 | ug/L | 0.678 | 1 | 138 | 49670 | 1 | KED |
| Ni | 62 | 50.407 | ug/L | 1.595 | 3 | 33 | 8508 | 2 | KED |
| Cu | 63 | 50.097 | ug/L | 0.338 | 0 | 80 | 150774 | 1 | KED |
| Cu | 65 | 49.855 | ug/L | 0.247 | 0 | 24 | 74080 | 1 | KED |
| Zn | 66 | 50.282 | ug/L | 0.274 | 0 | 43 | 19193 | 1 | KED |
| Zn | 67 | 49.882 | ug/L | 1.112 | 2 | 3 | 3166 | 3 | KED |
| As | 75 | 50.332 | ug/L | 0.642 | 1 | 16 | 10002 | 0 | KED |
| [Se | 78 | 48.664 | ug/L | 0.430 | 0 | 19 | 1102 | 0 | KED |
| Y | 89 | | ug/L | | | 297640 | 278382 | 2 | Standard |
| Kr | 83 | | ug/L | | | 48 | 59 | 25 | Standard |
| [> In-1 | 115 | | ug/L | | | 8217 | 7519 | 1 | KED |
| Cd | 111 | 49.443 | ug/L | 1.239 | 2 | 4 | 10982 | 2 | KED |
| Cd | 114 | 49.715 | ug/L | 0.706 | 1 | 2 | 27169 | 2 | KED |
| [> In | 115 | | ug/L | | | 413136 | 379598 | 1 | Standard |
| Ag | 107 | 50.018 | ug/L | 0.786 | 1 | 89 | 632844 | 0 | Standard |
| Ba | 135 | 51.091 | ug/L | 0.850 | 1 | 37 | 162132 | 0 | Standard |
| [Ba | 137 | 51.302 | ug/L | 0.939 | 1 | 46 | 288947 | 1 | Standard |
| [> Tb | 159 | | ug/L | | | 720127 | 654285 | 0 | Standard |
| [Pb | 208 | 50.302 | ug/L | 0.322 | 0 | 200 | 2038832 | 0 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB8

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, April 07, 2023 21:42:00

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30728 | 29643 | 2 | Standard |
| Cl | 37 | | ug/L | | | 4438068 | 4169253 | 0 | Standard |
| [> Sc | 45 | | ug/L | | | 546109 | 461275 | 1 | Standard |
| Cr | 52 | -0.030 | ug/L | 0.011 | 37 | 17159 | 14036 | 2 | Standard |
| Cr | 53 | -0.028 | ug/L | 0.013 | 45 | 216 | 133 | 18 | Standard |
| Mn | 55 | -0.013 | ug/L | 0.002 | 12 | 1132 | 685 | 3 | Standard |
| [> Ge | 72 | | ug/L | | | 29835 | 26871 | 0 | KED |
| Ni | 60 | -0.100 | ug/L | 0.003 | 3 | 138 | 22 | 14 | KED |
| Ni | 62 | -0.136 | ug/L | 0.034 | 25 | 33 | 7 | 75 | KED |
| Cu | 63 | -0.005 | ug/L | 0.007 | 136 | 80 | 56 | 39 | KED |
| Cu | 65 | 0.006 | ug/L | 0.001 | 22 | 24 | 30 | 6 | KED |
| Zn | 66 | -0.029 | ug/L | 0.020 | 69 | 43 | 27 | 27 | KED |
| Zn | 67 | -0.014 | ug/L | 0.046 | 327 | 3 | 2 | 114 | KED |
| As | 75 | -0.046 | ug/L | 0.007 | 15 | 16 | 5 | 25 | KED |
| Se | 78 | 0.060 | ug/L | 0.039 | 65 | 19 | 19 | 4 | KED |
| Y | 89 | | ug/L | | | 297640 | 261492 | 0 | Standard |
| Kr | 83 | | ug/L | | | 48 | 38 | 17 | Standard |
| [> In-1 | 115 | | ug/L | | | 8217 | 7422 | 2 | KED |
| Cd | 111 | 0.009 | ug/L | 0.012 | 130 | 4 | 5 | 44 | KED |
| Cd | 114 | -0.001 | ug/L | 0.004 | 472 | 2 | 1 | 113 | KED |
| [> In | 115 | | ug/L | | | 413136 | 371106 | 1 | Standard |
| Ag | 107 | -0.002 | ug/L | 0.001 | 70 | 89 | 57 | 28 | Standard |
| Ba | 135 | -0.007 | ug/L | 0.001 | 9 | 37 | 10 | 20 | Standard |
| Ba | 137 | -0.001 | ug/L | 0.001 | 94 | 46 | 36 | 13 | Standard |
| [> Tb | 159 | | ug/L | | | 720127 | 640661 | 0 | Standard |
| Pb | 208 | 0.000 | ug/L | 0.000 | 244 | 200 | 182 | 5 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23A0206-06**

Sample Dil Factor: **20**

Comments:

Sample Date/Time: **Friday, April 07, 2023 21:46:45**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30728 | 50613 | 4 | Standard |
| Cl | 37 | | ug/L | | | 4438068 | 4140118 | 1 | Standard |
| > Sc | 45 | | ug/L | | | 546109 | 581929 | 1 | Standard |
| Cr | 52 | 13.643 | ug/L | 0.347 | 2 | 17159 | 278614 | 1 | Standard |
| Cr | 53 | 14.109 | ug/L | 0.157 | 1 | 216 | 31309 | 1 | Standard |
| Mn | 55 | 134.606 | ug/L | 1.337 | 0 | 1132 | 3609409 | 1 | Standard |
| > Ge | 72 | | ug/L | | | 29835 | 27821 | 2 | KED |
| Ni | 60 | 11.522 | ug/L | 0.008 | 0 | 138 | 12305 | 2 | KED |
| Ni | 62 | 11.537 | ug/L | 0.480 | 4 | 33 | 2018 | 3 | KED |
| Cu | 63 | 25.722 | ug/L | 0.325 | 1 | 80 | 79314 | 1 | KED |
| Cu | 65 | 25.845 | ug/L | 0.935 | 3 | 24 | 39325 | 1 | KED |
| Zn | 66 | 56.278 | ug/L | 1.328 | 2 | 43 | 21993 | 1 | KED |
| Zn | 67 | 53.054 | ug/L | 1.002 | 1 | 3 | 3447 | 1 | KED |
| As | 75 | 5.343 | ug/L | 0.136 | 2 | 16 | 1100 | 0 | KED |
| Se | 78 | 0.684 | ug/L | 0.242 | 35 | 19 | 34 | 16 | KED |
| Y | 89 | | ug/L | | | 297640 | 484054 | 1 | Standard |
| Kr | 83 | | ug/L | | | 48 | 81 | 15 | Standard |
| > In-1 | 115 | | ug/L | | | 8217 | 7569 | 3 | KED |
| Cd | 111 | 0.189 | ug/L | 0.023 | 12 | 4 | 46 | 11 | KED |
| Cd | 114 | 0.197 | ug/L | 0.008 | 4 | 2 | 110 | 1 | KED |
| > In | 115 | | ug/L | | | 413136 | 388096 | 1 | Standard |
| Ag | 107 | 0.149 | ug/L | 0.007 | 4 | 89 | 2005 | 5 | Standard |
| Ba | 135 | 40.083 | ug/L | 0.703 | 1 | 37 | 130048 | 0 | Standard |
| Ba | 137 | 40.183 | ug/L | 0.343 | 0 | 46 | 231437 | 2 | Standard |
| > Tb | 159 | | ug/L | | | 720127 | 682294 | 1 | Standard |
| Pb | 208 | 13.908 | ug/L | 0.077 | 0 | 200 | 587971 | 1 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23A0206-07**

Sample Dil Factor: **20**

Comments:

Sample Date/Time: **Friday, April 07, 2023 21:51:29**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30728 | 51757 | 1 | Standard |
| Cl | 37 | | ug/L | | | 4438068 | 4178315 | 1 | Standard |
| > Sc | 45 | | ug/L | | | 546109 | 582435 | 0 | Standard |
| Cr | 52 | 12.490 | ug/L | 0.167 | 1 | 17159 | 256881 | 0 | Standard |
| Cr | 53 | 12.473 | ug/L | 0.199 | 1 | 216 | 27733 | 2 | Standard |
| Mn | 55 | 126.322 | ug/L | 0.232 | 0 | 1132 | 3390381 | 0 | Standard |
| > Ge | 72 | | ug/L | | | 29835 | 27715 | 1 | KED |
| Ni | 60 | 11.054 | ug/L | 0.390 | 3 | 138 | 11762 | 2 | KED |
| Ni | 62 | 11.515 | ug/L | 0.650 | 5 | 33 | 2007 | 5 | KED |
| Cu | 63 | 24.803 | ug/L | 0.345 | 1 | 80 | 76196 | 1 | KED |
| Cu | 65 | 25.357 | ug/L | 1.008 | 3 | 24 | 38442 | 2 | KED |
| Zn | 66 | 54.435 | ug/L | 1.906 | 3 | 43 | 21195 | 3 | KED |
| Zn | 67 | 52.856 | ug/L | 1.204 | 2 | 3 | 3421 | 2 | KED |
| As | 75 | 5.380 | ug/L | 0.098 | 1 | 16 | 1104 | 2 | KED |
| Se | 78 | 0.906 | ug/L | 0.223 | 24 | 19 | 39 | 13 | KED |
| Y | 89 | | ug/L | | | 297640 | 472695 | 2 | Standard |
| Kr | 83 | | ug/L | | | 48 | 100 | 14 | Standard |
| > In-1 | 115 | | ug/L | | | 8217 | 7558 | 4 | KED |
| Cd | 111 | 0.145 | ug/L | 0.031 | 21 | 4 | 36 | 19 | KED |
| Cd | 114 | 0.182 | ug/L | 0.038 | 21 | 2 | 101 | 16 | KED |
| > In | 115 | | ug/L | | | 413136 | 386116 | 0 | Standard |
| Ag | 107 | 0.098 | ug/L | 0.003 | 2 | 89 | 1341 | 2 | Standard |
| Ba | 135 | 32.679 | ug/L | 0.142 | 0 | 37 | 105512 | 0 | Standard |
| Ba | 137 | 32.302 | ug/L | 0.059 | 0 | 46 | 185097 | 0 | Standard |
| > Tb | 159 | | ug/L | | | 720127 | 673278 | 0 | Standard |
| Pb | 208 | 11.162 | ug/L | 0.118 | 1 | 200 | 465672 | 0 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23A0206-08**

Sample Dil Factor: **20**

Comments:

Sample Date/Time: **Friday, April 07, 2023 21:56:13**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30728 | 52531 | 2 | Standard |
| Cl | 37 | | ug/L | | | 4438068 | 4079125 | 2 | Standard |
| > Sc | 45 | | ug/L | | | 546109 | 585674 | 2 | Standard |
| Cr | 52 | 12.979 | ug/L | 0.109 | 0 | 17159 | 267714 | 2 | Standard |
| Cr | 53 | 13.196 | ug/L | 0.247 | 1 | 216 | 29482 | 0 | Standard |
| Mn | 55 | 144.680 | ug/L | 1.008 | 0 | 1132 | 3904647 | 2 | Standard |
| > Ge | 72 | | ug/L | | | 29835 | 28278 | 2 | KED |
| Ni | 60 | 11.266 | ug/L | 0.319 | 2 | 138 | 12232 | 3 | KED |
| Ni | 62 | 11.498 | ug/L | 0.056 | 0 | 33 | 2045 | 1 | KED |
| Cu | 63 | 25.678 | ug/L | 0.194 | 0 | 80 | 80497 | 2 | KED |
| Cu | 65 | 25.028 | ug/L | 0.409 | 1 | 24 | 38723 | 1 | KED |
| Zn | 66 | 50.819 | ug/L | 0.930 | 1 | 43 | 20190 | 1 | KED |
| Zn | 67 | 50.125 | ug/L | 2.596 | 5 | 3 | 3310 | 5 | KED |
| As | 75 | 6.878 | ug/L | 0.237 | 3 | 16 | 1435 | 1 | KED |
| Se | 78 | 0.642 | ug/L | 0.254 | 39 | 19 | 33 | 19 | KED |
| Y | 89 | | ug/L | | | 297640 | 479081 | 3 | Standard |
| Kr | 83 | | ug/L | | | 48 | 111 | 3 | Standard |
| > In-1 | 115 | | ug/L | | | 8217 | 7478 | 1 | KED |
| Cd | 111 | 0.181 | ug/L | 0.010 | 5 | 4 | 43 | 5 | KED |
| Cd | 114 | 0.183 | ug/L | 0.024 | 12 | 2 | 101 | 10 | KED |
| > In | 115 | | ug/L | | | 413136 | 383349 | 3 | Standard |
| Ag | 107 | 0.107 | ug/L | 0.005 | 4 | 89 | 1452 | 4 | Standard |
| Ba | 135 | 38.100 | ug/L | 1.025 | 2 | 37 | 122049 | 1 | Standard |
| Ba | 137 | 38.066 | ug/L | 0.779 | 2 | 46 | 216458 | 1 | Standard |
| > Tb | 159 | | ug/L | | | 720127 | 683899 | 1 | Standard |
| Pb | 208 | 11.429 | ug/L | 0.138 | 1 | 200 | 484313 | 0 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23A0206-09**

Sample Dil Factor: **20**

Comments:

Sample Date/Time: **Friday, April 07, 2023 22:00:57**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30728 | 54790 | 1 | Standard |
| Cl | 37 | | ug/L | | | 4438068 | 4140430 | 1 | Standard |
| > Sc | 45 | | ug/L | | | 546109 | 587218 | 1 | Standard |
| Cr | 52 | 13.057 | ug/L | 0.116 | 0 | 17159 | 269905 | 0 | Standard |
| Cr | 53 | 13.130 | ug/L | 0.288 | 2 | 216 | 29414 | 0 | Standard |
| Mn | 55 | 143.752 | ug/L | 1.521 | 1 | 1132 | 3889342 | 0 | Standard |
| > Ge | 72 | | ug/L | | | 29835 | 27622 | 2 | KED |
| Ni | 60 | 10.870 | ug/L | 0.570 | 5 | 138 | 11527 | 4 | KED |
| Ni | 62 | 11.035 | ug/L | 0.061 | 0 | 33 | 1918 | 2 | KED |
| Cu | 63 | 29.396 | ug/L | 0.492 | 1 | 80 | 89978 | 0 | KED |
| Cu | 65 | 29.916 | ug/L | 0.768 | 2 | 24 | 45204 | 2 | KED |
| Zn | 66 | 53.188 | ug/L | 0.793 | 1 | 43 | 20639 | 0 | KED |
| Zn | 67 | 49.966 | ug/L | 0.971 | 1 | 3 | 3224 | 3 | KED |
| As | 75 | 8.612 | ug/L | 0.225 | 2 | 16 | 1752 | 0 | KED |
| Se | 78 | 0.806 | ug/L | 0.198 | 24 | 19 | 36 | 12 | KED |
| Y | 89 | | ug/L | | | 297640 | 467445 | 2 | Standard |
| Kr | 83 | | ug/L | | | 48 | 94 | 5 | Standard |
| > In-1 | 115 | | ug/L | | | 8217 | 7504 | 2 | KED |
| Cd | 111 | 0.191 | ug/L | 0.033 | 17 | 4 | 46 | 13 | KED |
| Cd | 114 | 0.193 | ug/L | 0.012 | 6 | 2 | 107 | 8 | KED |
| > In | 115 | | ug/L | | | 413136 | 377485 | 3 | Standard |
| Ag | 107 | 0.135 | ug/L | 0.004 | 2 | 89 | 1774 | 1 | Standard |
| Ba | 135 | 36.978 | ug/L | 1.258 | 3 | 37 | 116636 | 0 | Standard |
| Ba | 137 | 36.958 | ug/L | 0.743 | 2 | 46 | 206951 | 1 | Standard |
| > Tb | 159 | | ug/L | | | 720127 | 682791 | 1 | Standard |
| Pb | 208 | 13.700 | ug/L | 0.261 | 1 | 200 | 579570 | 1 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23A0206-10**

Sample Dil Factor: **20**

Comments:

Sample Date/Time: **Friday, April 07, 2023 22:05:41**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30728 | 56839 | 1 | Standard |
| Cl | 37 | | ug/L | | | 4438068 | 4120071 | 0 | Standard |
| > Sc | 45 | | ug/L | | | 546109 | 596905 | 1 | Standard |
| Cr | 52 | 13.537 | ug/L | 0.181 | 1 | 17159 | 283761 | 1 | Standard |
| Cr | 53 | 13.947 | ug/L | 0.258 | 1 | 216 | 31757 | 3 | Standard |
| Mn | 55 | 149.657 | ug/L | 2.524 | 1 | 1132 | 4115458 | 0 | Standard |
| > Ge | 72 | | ug/L | | | 29835 | 27477 | 1 | KED |
| Ni | 60 | 11.483 | ug/L | 0.214 | 1 | 138 | 12113 | 3 | KED |
| Ni | 62 | 11.657 | ug/L | 0.142 | 1 | 33 | 2014 | 0 | KED |
| Cu | 63 | 32.306 | ug/L | 0.933 | 2 | 80 | 98356 | 1 | KED |
| Cu | 65 | 32.671 | ug/L | 0.870 | 2 | 24 | 49103 | 1 | KED |
| Zn | 66 | 531.960 | ug/L | 11.814 | 2 | 43 | 205023 | 2 | KED |
| Zn | 67 | 486.862 | ug/L | 15.381 | 3 | 3 | 31213 | 1 | KED |
| As | 75 | 8.407 | ug/L | 0.116 | 1 | 16 | 1702 | 0 | KED |
| Se | 78 | 0.785 | ug/L | 0.149 | 19 | 19 | 36 | 8 | KED |
| Y | 89 | | ug/L | | | 297640 | 482629 | 1 | Standard |
| Kr | 83 | | ug/L | | | 48 | 126 | 13 | Standard |
| > In-1 | 115 | | ug/L | | | 8217 | 7520 | 2 | KED |
| Cd | 111 | 0.205 | ug/L | 0.024 | 11 | 4 | 49 | 9 | KED |
| Cd | 114 | 0.202 | ug/L | 0.015 | 7 | 2 | 112 | 6 | KED |
| > In | 115 | | ug/L | | | 413136 | 385952 | 1 | Standard |
| Ag | 107 | 0.150 | ug/L | 0.001 | 0 | 89 | 2014 | 1 | Standard |
| Ba | 135 | 39.918 | ug/L | 0.221 | 0 | 37 | 128818 | 0 | Standard |
| Ba | 137 | 39.120 | ug/L | 0.879 | 2 | 46 | 224032 | 1 | Standard |
| > Tb | 159 | | ug/L | | | 720127 | 684091 | 0 | Standard |
| Pb | 208 | 14.469 | ug/L | 0.101 | 0 | 200 | 613292 | 0 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23A0206-11**

Sample Dil Factor: **20**

Comments:

Sample Date/Time: **Friday, April 07, 2023 22:10:25**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30728 | 53359 | 3 | Standard |
| Cl | 37 | | ug/L | | | 4438068 | 4092819 | 1 | Standard |
| > Sc | 45 | | ug/L | | | 546109 | 589551 | 0 | Standard |
| Cr | 52 | 12.063 | ug/L | 0.260 | 2 | 17159 | 251741 | 1 | Standard |
| Cr | 53 | 12.255 | ug/L | 0.174 | 1 | 216 | 27585 | 2 | Standard |
| Mn | 55 | 138.831 | ug/L | 1.400 | 1 | 1132 | 3771306 | 0 | Standard |
| > Ge | 72 | | ug/L | | | 29835 | 27806 | 1 | KED |
| Ni | 60 | 9.818 | ug/L | 0.155 | 1 | 138 | 10498 | 2 | KED |
| Ni | 62 | 10.153 | ug/L | 0.435 | 4 | 33 | 1779 | 4 | KED |
| Cu | 63 | 27.344 | ug/L | 0.335 | 1 | 80 | 84274 | 1 | KED |
| Cu | 65 | 27.790 | ug/L | 0.865 | 3 | 24 | 42273 | 2 | KED |
| Zn | 66 | 48.586 | ug/L | 0.550 | 1 | 43 | 18988 | 2 | KED |
| Zn | 67 | 46.824 | ug/L | 0.947 | 2 | 3 | 3041 | 1 | KED |
| As | 75 | 7.829 | ug/L | 0.079 | 1 | 16 | 1605 | 1 | KED |
| Se | 78 | 0.461 | ug/L | 0.056 | 12 | 19 | 29 | 4 | KED |
| Y | 89 | | ug/L | | | 297640 | 459086 | 1 | Standard |
| Kr | 83 | | ug/L | | | 48 | 85 | 15 | Standard |
| > In-1 | 115 | | ug/L | | | 8217 | 7443 | 4 | KED |
| Cd | 111 | 0.170 | ug/L | 0.014 | 8 | 4 | 41 | 11 | KED |
| Cd | 114 | 0.158 | ug/L | 0.013 | 8 | 2 | 87 | 4 | KED |
| > In | 115 | | ug/L | | | 413136 | 379895 | 1 | Standard |
| Ag | 107 | 0.132 | ug/L | 0.006 | 4 | 89 | 1747 | 3 | Standard |
| Ba | 135 | 32.121 | ug/L | 0.663 | 2 | 37 | 102025 | 1 | Standard |
| Ba | 137 | 32.158 | ug/L | 0.521 | 1 | 46 | 181286 | 0 | Standard |
| > Tb | 159 | | ug/L | | | 720127 | 681758 | 0 | Standard |
| Pb | 208 | 13.411 | ug/L | 0.262 | 1 | 200 | 566513 | 1 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23A0206-12**

Sample Dil Factor: **20**

Comments:

Sample Date/Time: **Friday, April 07, 2023 22:15:09**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30728 | 52996 | 1 | Standard |
| Cl | 37 | | ug/L | | | 4438068 | 4135770 | 2 | Standard |
| > Sc | 45 | | ug/L | | | 546109 | 593850 | 1 | Standard |
| Cr | 52 | 13.192 | ug/L | 0.254 | 1 | 17159 | 275562 | 0 | Standard |
| Cr | 53 | 13.599 | ug/L | 0.266 | 1 | 216 | 30809 | 3 | Standard |
| Mn | 55 | 144.803 | ug/L | 2.276 | 1 | 1132 | 3961726 | 0 | Standard |
| > Ge | 72 | | ug/L | | | 29835 | 27276 | 1 | KED |
| Ni | 60 | 11.697 | ug/L | 0.458 | 3 | 138 | 12239 | 2 | KED |
| Ni | 62 | 11.595 | ug/L | 0.773 | 6 | 33 | 1988 | 5 | KED |
| Cu | 63 | 30.353 | ug/L | 0.347 | 1 | 80 | 91754 | 1 | KED |
| Cu | 65 | 30.072 | ug/L | 0.729 | 2 | 24 | 44864 | 0 | KED |
| Zn | 66 | 59.116 | ug/L | 0.843 | 1 | 43 | 22656 | 3 | KED |
| Zn | 67 | 59.030 | ug/L | 0.413 | 0 | 3 | 3760 | 1 | KED |
| As | 75 | 5.828 | ug/L | 0.166 | 2 | 16 | 1175 | 0 | KED |
| Se | 78 | 0.882 | ug/L | 0.082 | 9 | 19 | 37 | 3 | KED |
| Y | 89 | | ug/L | | | 297640 | 472610 | 0 | Standard |
| Kr | 83 | | ug/L | | | 48 | 107 | 15 | Standard |
| > In-1 | 115 | | ug/L | | | 8217 | 7664 | 1 | KED |
| Cd | 111 | 0.205 | ug/L | 0.040 | 19 | 4 | 50 | 17 | KED |
| Cd | 114 | 0.170 | ug/L | 0.047 | 28 | 2 | 96 | 26 | KED |
| > In | 115 | | ug/L | | | 413136 | 379633 | 2 | Standard |
| Ag | 107 | 0.132 | ug/L | 0.007 | 5 | 89 | 1748 | 3 | Standard |
| Ba | 135 | 36.296 | ug/L | 1.029 | 2 | 37 | 115158 | 0 | Standard |
| Ba | 137 | 36.642 | ug/L | 1.345 | 3 | 46 | 206308 | 1 | Standard |
| > Tb | 159 | | ug/L | | | 720127 | 677035 | 0 | Standard |
| Pb | 208 | 13.580 | ug/L | 0.085 | 0 | 200 | 569692 | 0 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23A0206-13**

Sample Dil Factor: **20**

Comments:

Sample Date/Time: **Friday, April 07, 2023 22:19:53**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30728 | 50799 | 1 | Standard |
| Cl | 37 | | ug/L | | | 4438068 | 4123661 | 2 | Standard |
| > Sc | 45 | | ug/L | | | 546109 | 577486 | 1 | Standard |
| Cr | 52 | 24.826 | ug/L | 0.819 | 3 | 17159 | 488203 | 1 | Standard |
| Cr | 53 | 24.855 | ug/L | 0.300 | 1 | 216 | 54561 | 1 | Standard |
| Mn | 55 | 122.399 | ug/L | 4.208 | 3 | 1132 | 3256012 | 1 | Standard |
| > Ge | 72 | | ug/L | | | 29835 | 27603 | 2 | KED |
| Ni | 60 | 16.614 | ug/L | 0.464 | 2 | 138 | 17538 | 0 | KED |
| Ni | 62 | 17.293 | ug/L | 0.921 | 5 | 33 | 2985 | 4 | KED |
| Cu | 63 | 43.858 | ug/L | 0.764 | 1 | 80 | 134132 | 2 | KED |
| Cu | 65 | 44.393 | ug/L | 0.588 | 1 | 24 | 67021 | 1 | KED |
| Zn | 66 | 95.540 | ug/L | 2.276 | 2 | 43 | 37010 | 1 | KED |
| Zn | 67 | 88.821 | ug/L | 1.188 | 1 | 3 | 5724 | 3 | KED |
| As | 75 | 6.205 | ug/L | 0.145 | 2 | 16 | 1265 | 1 | KED |
| Se | 78 | 0.772 | ug/L | 0.132 | 17 | 19 | 36 | 10 | KED |
| Y | 89 | | ug/L | | | 297640 | 443001 | 1 | Standard |
| Kr | 83 | | ug/L | | | 48 | 93 | 13 | Standard |
| > In-1 | 115 | | ug/L | | | 8217 | 7577 | 4 | KED |
| Cd | 111 | 0.966 | ug/L | 0.105 | 10 | 4 | 219 | 6 | KED |
| Cd | 114 | 1.004 | ug/L | 0.107 | 10 | 2 | 553 | 7 | KED |
| > In | 115 | | ug/L | | | 413136 | 384133 | 1 | Standard |
| Ag | 107 | 0.918 | ug/L | 0.031 | 3 | 89 | 11834 | 2 | Standard |
| Ba | 135 | 36.225 | ug/L | 0.954 | 2 | 37 | 116326 | 1 | Standard |
| Ba | 137 | 36.058 | ug/L | 0.547 | 1 | 46 | 205527 | 0 | Standard |
| > Tb | 159 | | ug/L | | | 720127 | 676577 | 1 | Standard |
| Pb | 208 | 62.354 | ug/L | 1.086 | 1 | 200 | 2613215 | 1 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23A0206-14**

Sample Dil Factor: **20**

Comments:

Sample Date/Time: **Friday, April 07, 2023 22:24:37**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30728 | 52626 | 3 | Standard |
| Cl | 37 | | ug/L | | | 4438068 | 4149776 | 1 | Standard |
| > Sc | 45 | | ug/L | | | 546109 | 584004 | 0 | Standard |
| Cr | 52 | 14.801 | ug/L | 0.318 | 2 | 17159 | 301819 | 1 | Standard |
| Cr | 53 | 15.036 | ug/L | 0.097 | 0 | 216 | 33471 | 0 | Standard |
| Mn | 55 | 132.304 | ug/L | 0.329 | 0 | 1132 | 3560441 | 0 | Standard |
| > Ge | 72 | | ug/L | | | 29835 | 27314 | 1 | KED |
| Ni | 60 | 12.239 | ug/L | 0.067 | 0 | 138 | 12824 | 0 | KED |
| Ni | 62 | 12.342 | ug/L | 0.751 | 6 | 33 | 2117 | 5 | KED |
| Cu | 63 | 35.854 | ug/L | 0.910 | 2 | 80 | 108509 | 1 | KED |
| Cu | 65 | 35.764 | ug/L | 0.184 | 0 | 24 | 53443 | 1 | KED |
| Zn | 66 | 76.060 | ug/L | 3.172 | 4 | 43 | 29166 | 3 | KED |
| Zn | 67 | 72.522 | ug/L | 3.856 | 5 | 3 | 4624 | 4 | KED |
| As | 75 | 6.295 | ug/L | 0.276 | 4 | 16 | 1270 | 3 | KED |
| Se | 78 | 0.944 | ug/L | 0.186 | 19 | 19 | 39 | 10 | KED |
| Y | 89 | | ug/L | | | 297640 | 468237 | 0 | Standard |
| Kr | 83 | | ug/L | | | 48 | 90 | 6 | Standard |
| > In-1 | 115 | | ug/L | | | 8217 | 7609 | 1 | KED |
| Cd | 111 | 0.281 | ug/L | 0.017 | 6 | 4 | 66 | 7 | KED |
| Cd | 114 | 0.296 | ug/L | 0.019 | 6 | 2 | 166 | 5 | KED |
| > In | 115 | | ug/L | | | 413136 | 381811 | 2 | Standard |
| Ag | 107 | 0.211 | ug/L | 0.003 | 1 | 89 | 2771 | 1 | Standard |
| Ba | 135 | 36.629 | ug/L | 0.415 | 1 | 37 | 116923 | 1 | Standard |
| Ba | 137 | 36.597 | ug/L | 0.656 | 1 | 46 | 207326 | 1 | Standard |
| > Tb | 159 | | ug/L | | | 720127 | 682515 | 0 | Standard |
| Pb | 208 | 16.066 | ug/L | 0.212 | 1 | 200 | 679391 | 0 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL9

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, April 07, 2023 22:29:22

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30728 | 31202 | 3 | Standard |
| Cl | 37 | | ug/L | | | 4438068 | 4018551 | 2 | Standard |
| [> Sc | 45 | | ug/L | | | 546109 | 451755 | 1 | Standard |
| Cr | 52 | -0.004 | ug/L | 0.005 | 126 | 17159 | 14141 | 1 | Standard |
| Cr | 53 | -0.031 | ug/L | 0.008 | 26 | 216 | 126 | 10 | Standard |
| Mn | 55 | -0.006 | ug/L | 0.001 | 22 | 1132 | 802 | 4 | Standard |
| [> Ge | 72 | | ug/L | | | 29835 | 26981 | 2 | KED |
| Ni | 60 | -0.102 | ug/L | 0.005 | 4 | 138 | 20 | 24 | KED |
| Ni | 62 | -0.160 | ug/L | 0.019 | 12 | 33 | 3 | 86 | KED |
| Cu | 63 | 0.030 | ug/L | 0.005 | 15 | 80 | 162 | 7 | KED |
| Cu | 65 | 0.037 | ug/L | 0.005 | 12 | 24 | 76 | 6 | KED |
| Zn | 66 | 0.006 | ug/L | 0.017 | 312 | 43 | 41 | 18 | KED |
| Zn | 67 | 0.036 | ug/L | 0.002 | 6 | 3 | 5 | 0 | KED |
| As | 75 | -0.041 | ug/L | 0.004 | 10 | 16 | 6 | 14 | KED |
| [Se | 78 | -0.035 | ug/L | 0.061 | 171 | 19 | 17 | 8 | KED |
| Y | 89 | | ug/L | | | 297640 | 255123 | 4 | Standard |
| Kr | 83 | | ug/L | | | 48 | 45 | 27 | Standard |
| [> In-1 | 115 | | ug/L | | | 8217 | 7281 | 2 | KED |
| Cd | 111 | -0.005 | ug/L | 0.007 | 123 | 4 | 2 | 57 | KED |
| Cd | 114 | 0.008 | ug/L | 0.008 | 98 | 2 | 6 | 64 | KED |
| [> In | 115 | | ug/L | | | 413136 | 363887 | 3 | Standard |
| Ag | 107 | -0.003 | ug/L | 0.000 | 7 | 89 | 45 | 4 | Standard |
| Ba | 135 | 0.004 | ug/L | 0.004 | 95 | 37 | 46 | 24 | Standard |
| [Ba | 137 | 0.006 | ug/L | 0.002 | 26 | 46 | 71 | 7 | Standard |
| [> Tb | 159 | | ug/L | | | 720127 | 619191 | 1 | Standard |
| [Pb | 208 | -0.001 | ug/L | 0.000 | 26 | 200 | 137 | 6 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV9

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, April 07, 2023 22:34:06

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30728 | 30483 | 0 | Standard |
| Cl | 37 | | ug/L | | | 4438068 | 4227808 | 0 | Standard |
| [> Sc | 45 | | ug/L | | | 546109 | 480127 | 0 | Standard |
| Cr | 52 | 50.256 | ug/L | 0.148 | 0 | 17159 | 806485 | 0 | Standard |
| Cr | 53 | 51.647 | ug/L | 0.846 | 1 | 216 | 94056 | 1 | Standard |
| Mn | 55 | 51.670 | ug/L | 0.693 | 1 | 1132 | 1143726 | 1 | Standard |
| [> Ge | 72 | | ug/L | | | 29835 | 25944 | 4 | KED |
| Ni | 60 | 50.056 | ug/L | 0.884 | 1 | 138 | 49427 | 2 | KED |
| Ni | 62 | 51.454 | ug/L | 2.255 | 4 | 33 | 8290 | 4 | KED |
| Cu | 63 | 50.836 | ug/L | 2.047 | 4 | 80 | 145993 | 2 | KED |
| Cu | 65 | 51.641 | ug/L | 2.283 | 4 | 24 | 73201 | 0 | KED |
| Zn | 66 | 51.537 | ug/L | 1.259 | 2 | 43 | 18777 | 2 | KED |
| Zn | 67 | 51.972 | ug/L | 1.982 | 3 | 3 | 3147 | 2 | KED |
| As | 75 | 51.244 | ug/L | 1.318 | 2 | 16 | 9720 | 1 | KED |
| [Se | 78 | 51.590 | ug/L | 1.759 | 3 | 19 | 1114 | 2 | KED |
| Y | 89 | | ug/L | | | 297640 | 275051 | 1 | Standard |
| Kr | 83 | | ug/L | | | 48 | 52 | 20 | Standard |
| [> In-1 | 115 | | ug/L | | | 8217 | 7399 | 2 | KED |
| Cd | 111 | 50.053 | ug/L | 0.787 | 1 | 4 | 10939 | 0 | KED |
| [Cd | 114 | 49.643 | ug/L | 0.342 | 0 | 2 | 26693 | 1 | KED |
| [> In | 115 | | ug/L | | | 413136 | 380920 | 0 | Standard |
| Ag | 107 | 50.412 | ug/L | 1.396 | 2 | 89 | 640090 | 2 | Standard |
| Ba | 135 | 50.934 | ug/L | 0.601 | 1 | 37 | 162226 | 1 | Standard |
| [Ba | 137 | 50.699 | ug/L | 1.406 | 2 | 46 | 286569 | 2 | Standard |
| [> Tb | 159 | | ug/L | | | 720127 | 660923 | 1 | Standard |
| [Pb | 208 | 49.923 | ug/L | 0.086 | 0 | 200 | 2044029 | 1 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB9

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, April 07, 2023 22:41:35

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30728 | 30613 | 1 | Standard |
| Cl | 37 | | ug/L | | | 4438068 | 4130691 | 1 | Standard |
| [> Sc | 45 | | ug/L | | | 546109 | 470123 | 0 | Standard |
| Cr | 52 | 0.001 | ug/L | 0.017 | 1718 | 17159 | 14786 | 1 | Standard |
| Cr | 53 | -0.024 | ug/L | 0.008 | 34 | 216 | 143 | 10 | Standard |
| Mn | 55 | -0.013 | ug/L | 0.002 | 15 | 1132 | 686 | 5 | Standard |
| [> Ge | 72 | | ug/L | | | 29835 | 26336 | 3 | KED |
| Ni | 60 | -0.104 | ug/L | 0.005 | 5 | 138 | 18 | 26 | KED |
| Ni | 62 | -0.135 | ug/L | 0.032 | 23 | 33 | 7 | 66 | KED |
| Cu | 63 | -0.010 | ug/L | 0.002 | 21 | 80 | 42 | 10 | KED |
| Cu | 65 | -0.001 | ug/L | 0.005 | 471 | 24 | 20 | 35 | KED |
| Zn | 66 | -0.033 | ug/L | 0.013 | 39 | 43 | 26 | 22 | KED |
| Zn | 67 | 0.027 | ug/L | 0.045 | 166 | 3 | 5 | 57 | KED |
| As | 75 | -0.047 | ug/L | 0.004 | 9 | 16 | 5 | 18 | KED |
| Se | 78 | 0.012 | ug/L | 0.085 | 697 | 19 | 17 | 12 | KED |
| Y | 89 | | ug/L | | | 297640 | 259006 | 0 | Standard |
| Kr | 83 | | ug/L | | | 48 | 52 | 15 | Standard |
| [> In-1 | 115 | | ug/L | | | 8217 | 7229 | 4 | KED |
| Cd | 111 | 0.007 | ug/L | 0.006 | 86 | 4 | 5 | 21 | KED |
| Cd | 114 | 0.004 | ug/L | 0.004 | 99 | 2 | 4 | 50 | KED |
| [> In | 115 | | ug/L | | | 413136 | 368706 | 2 | Standard |
| Ag | 107 | -0.002 | ug/L | 0.001 | 37 | 89 | 53 | 15 | Standard |
| Ba | 135 | -0.004 | ug/L | 0.003 | 89 | 37 | 21 | 48 | Standard |
| Ba | 137 | -0.002 | ug/L | 0.001 | 50 | 46 | 31 | 18 | Standard |
| [> Tb | 159 | | ug/L | | | 720127 | 626670 | 2 | Standard |
| Pb | 208 | 0.000 | ug/L | 0.001 | 140 | 200 | 191 | 15 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23A0158-05**

Sample Dil Factor: **50**

Comments:

Sample Date/Time: **Friday, April 07, 2023 22:46:19**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|---------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30728 | 42770 | 1 | Standard |
| Cl | 37 | | ug/L | | | 4438068 | 4065756 | 1 | Standard |
| [> Sc | 45 | | ug/L | | | 546109 | 513651 | 2 | Standard |
| Cr | 52 | 5.893 | ug/L | 0.113 | 1 | 17159 | 115398 | 0 | Standard |
| Cr | 53 | 5.971 | ug/L | 0.112 | 1 | 216 | 11811 | 0 | Standard |
| Mn | 55 | 66.790 | ug/L | 0.353 | 0 | 1132 | 1581487 | 2 | Standard |
| [> Ge | 72 | | ug/L | | | 29835 | 27736 | 1 | KED |
| Ni | 60 | 4.628 | ug/L | 0.127 | 2 | 138 | 5004 | 1 | KED |
| Ni | 62 | 4.502 | ug/L | 0.066 | 1 | 33 | 804 | 0 | KED |
| Cu | 63 | 11.056 | ug/L | 0.356 | 3 | 80 | 34033 | 3 | KED |
| Cu | 65 | 11.212 | ug/L | 0.205 | 1 | 24 | 17026 | 0 | KED |
| Zn | 66 | 22.011 | ug/L | 1.287 | 5 | 43 | 8598 | 4 | KED |
| Zn | 67 | 21.074 | ug/L | 0.684 | 3 | 3 | 1367 | 3 | KED |
| As | 75 | 2.547 | ug/L | 0.035 | 1 | 16 | 531 | 2 | KED |
| [Se | 78 | 0.370 | ug/L | 0.110 | 29 | 19 | 26 | 8 | KED |
| Y | 89 | | ug/L | | | 297640 | 345771 | 0 | Standard |
| Kr | 83 | | ug/L | | | 48 | 66 | 13 | Standard |
| [> In-1 | 115 | | ug/L | | | 8217 | 7576 | 1 | KED |
| Cd | 111 | 0.065 | ug/L | 0.018 | 28 | 4 | 18 | 21 | KED |
| Cd | 114 | 0.083 | ug/L | 0.022 | 26 | 2 | 48 | 24 | KED |
| [> In | 115 | | ug/L | | | 413136 | 377281 | 4 | Standard |
| Ag | 107 | 0.045 | ug/L | 0.004 | 9 | 89 | 648 | 7 | Standard |
| Ba | 135 | 14.413 | ug/L | 0.690 | 4 | 37 | 45420 | 0 | Standard |
| [Ba | 137 | 14.311 | ug/L | 0.688 | 4 | 46 | 80033 | 0 | Standard |
| [> Tb | 159 | | ug/L | | | 720127 | 652430 | 5 | Standard |
| [Pb | 208 | 4.913 | ug/L | 0.259 | 5 | 200 | 198345 | 0 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23A0158-06**

Sample Dil Factor: **50**

Comments:

Sample Date/Time: **Friday, April 07, 2023 22:51:03**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|---------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30728 | 42166 | 1 | Standard |
| Cl | 37 | | ug/L | | | 4438068 | 4134510 | 0 | Standard |
| > Sc | 45 | | ug/L | | | 546109 | 530966 | 1 | Standard |
| Cr | 52 | 7.299 | ug/L | 0.169 | 2 | 17159 | 143781 | 2 | Standard |
| Cr | 53 | 7.368 | ug/L | 0.123 | 1 | 216 | 15018 | 0 | Standard |
| Mn | 55 | 54.747 | ug/L | 0.504 | 0 | 1132 | 1340060 | 0 | Standard |
| > Ge | 72 | | ug/L | | | 29835 | 28180 | 3 | KED |
| Ni | 60 | 4.244 | ug/L | 0.159 | 3 | 138 | 4669 | 1 | KED |
| Ni | 62 | 4.337 | ug/L | 0.298 | 6 | 33 | 787 | 2 | KED |
| Cu | 63 | 10.759 | ug/L | 0.224 | 2 | 80 | 33637 | 1 | KED |
| Cu | 65 | 10.880 | ug/L | 0.295 | 2 | 24 | 16780 | 1 | KED |
| Zn | 66 | 23.621 | ug/L | 0.611 | 2 | 43 | 9370 | 0 | KED |
| Zn | 67 | 23.724 | ug/L | 1.608 | 6 | 3 | 1561 | 5 | KED |
| As | 75 | 2.423 | ug/L | 0.055 | 2 | 16 | 514 | 1 | KED |
| Se | 78 | 0.299 | ug/L | 0.189 | 63 | 19 | 25 | 15 | KED |
| Y | 89 | | ug/L | | | 297640 | 363192 | 1 | Standard |
| Kr | 83 | | ug/L | | | 48 | 62 | 15 | Standard |
| > In-1 | 115 | | ug/L | | | 8217 | 7736 | 3 | KED |
| Cd | 111 | 0.200 | ug/L | 0.018 | 9 | 4 | 49 | 9 | KED |
| Cd | 114 | 0.194 | ug/L | 0.008 | 4 | 2 | 110 | 1 | KED |
| > In | 115 | | ug/L | | | 413136 | 389355 | 2 | Standard |
| Ag | 107 | 0.228 | ug/L | 0.001 | 0 | 89 | 3046 | 2 | Standard |
| Ba | 135 | 12.681 | ug/L | 0.170 | 1 | 37 | 41302 | 0 | Standard |
| Ba | 137 | 12.707 | ug/L | 0.425 | 3 | 46 | 73417 | 1 | Standard |
| > Tb | 159 | | ug/L | | | 720127 | 673859 | 1 | Standard |
| Pb | 208 | 7.116 | ug/L | 0.124 | 1 | 200 | 297160 | 0 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23A0158-07**

Sample Dil Factor: **50**

Comments:

Sample Date/Time: **Friday, April 07, 2023 22:55:47**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|---------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30728 | 43673 | 1 | Standard |
| Cl | 37 | | ug/L | | | 4438068 | 4094241 | 1 | Standard |
| > Sc | 45 | | ug/L | | | 546109 | 538529 | 1 | Standard |
| Cr | 52 | 6.145 | ug/L | 0.084 | 1 | 17159 | 125453 | 0 | Standard |
| Cr | 53 | 6.176 | ug/L | 0.132 | 2 | 216 | 12801 | 0 | Standard |
| Mn | 55 | 51.559 | ug/L | 0.595 | 1 | 1132 | 1279989 | 0 | Standard |
| > Ge | 72 | | ug/L | | | 29835 | 27390 | 2 | KED |
| Ni | 60 | 4.882 | ug/L | 0.227 | 4 | 138 | 5202 | 1 | KED |
| Ni | 62 | 5.184 | ug/L | 0.221 | 4 | 33 | 910 | 5 | KED |
| Cu | 63 | 9.120 | ug/L | 0.187 | 2 | 80 | 27727 | 0 | KED |
| Cu | 65 | 9.384 | ug/L | 0.615 | 6 | 24 | 14067 | 5 | KED |
| Zn | 66 | 20.018 | ug/L | 1.225 | 6 | 43 | 7721 | 3 | KED |
| Zn | 67 | 19.405 | ug/L | 1.534 | 7 | 3 | 1242 | 6 | KED |
| As | 75 | 2.923 | ug/L | 0.049 | 1 | 16 | 599 | 1 | KED |
| Se | 78 | 0.310 | ug/L | 0.084 | 27 | 19 | 25 | 7 | KED |
| Y | 89 | | ug/L | | | 297640 | 376411 | 3 | Standard |
| Kr | 83 | | ug/L | | | 48 | 66 | 32 | Standard |
| > In-1 | 115 | | ug/L | | | 8217 | 7727 | 1 | KED |
| Cd | 111 | 0.088 | ug/L | 0.039 | 44 | 4 | 23 | 36 | KED |
| Cd | 114 | 0.086 | ug/L | 0.005 | 5 | 2 | 50 | 4 | KED |
| > In | 115 | | ug/L | | | 413136 | 388603 | 0 | Standard |
| Ag | 107 | 0.054 | ug/L | 0.001 | 1 | 89 | 780 | 0 | Standard |
| Ba | 135 | 14.474 | ug/L | 0.078 | 0 | 37 | 47054 | 1 | Standard |
| Ba | 137 | 14.533 | ug/L | 0.077 | 0 | 46 | 83835 | 0 | Standard |
| > Tb | 159 | | ug/L | | | 720127 | 677917 | 0 | Standard |
| Pb | 208 | 5.807 | ug/L | 0.041 | 0 | 200 | 244037 | 0 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23A0158-10**

Sample Dil Factor: **50**

Comments:

Sample Date/Time: **Friday, April 07, 2023 23:00:31**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|---------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30728 | 43432 | 0 | Standard |
| Cl | 37 | | ug/L | | | 4438068 | 4158038 | 1 | Standard |
| [> Sc | 45 | | ug/L | | | 546109 | 549316 | 0 | Standard |
| Cr | 52 | 6.711 | ug/L | 0.203 | 3 | 17159 | 138157 | 2 | Standard |
| Cr | 53 | 6.871 | ug/L | 0.186 | 2 | 216 | 14504 | 1 | Standard |
| Mn | 55 | 80.779 | ug/L | 1.636 | 2 | 1132 | 2045103 | 2 | Standard |
| [> Ge | 72 | | ug/L | | | 29835 | 27935 | 1 | KED |
| Ni | 60 | 5.261 | ug/L | 0.107 | 2 | 138 | 5712 | 3 | KED |
| Ni | 62 | 5.284 | ug/L | 0.083 | 1 | 33 | 945 | 0 | KED |
| Cu | 63 | 12.427 | ug/L | 0.113 | 0 | 80 | 38522 | 1 | KED |
| Cu | 65 | 12.468 | ug/L | 0.240 | 1 | 24 | 19069 | 2 | KED |
| Zn | 66 | 24.255 | ug/L | 0.561 | 2 | 43 | 9540 | 1 | KED |
| Zn | 67 | 24.203 | ug/L | 0.900 | 3 | 3 | 1581 | 4 | KED |
| As | 75 | 3.186 | ug/L | 0.027 | 0 | 16 | 665 | 0 | KED |
| [Se | 78 | 0.299 | ug/L | 0.133 | 44 | 19 | 25 | 12 | KED |
| Y | 89 | | ug/L | | | 297640 | 398849 | 1 | Standard |
| Kr | 83 | | ug/L | | | 48 | 70 | 7 | Standard |
| [> In-1 | 115 | | ug/L | | | 8217 | 7714 | 0 | KED |
| Cd | 111 | 0.175 | ug/L | 0.022 | 12 | 4 | 43 | 11 | KED |
| Cd | 114 | 0.195 | ug/L | 0.050 | 25 | 2 | 111 | 24 | KED |
| [> In | 115 | | ug/L | | | 413136 | 378907 | 0 | Standard |
| Ag | 107 | 0.130 | ug/L | 0.006 | 4 | 89 | 1725 | 5 | Standard |
| Ba | 135 | 18.582 | ug/L | 0.417 | 2 | 37 | 58883 | 1 | Standard |
| Ba | 137 | 18.630 | ug/L | 0.267 | 1 | 46 | 104768 | 0 | Standard |
| [> Tb | 159 | | ug/L | | | 720127 | 671050 | 2 | Standard |
| [Pb | 208 | 7.707 | ug/L | 0.210 | 2 | 200 | 320382 | 0 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23A0157-01**

Sample Dil Factor: **50**

Comments:

Sample Date/Time: **Friday, April 07, 2023 23:05:15**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|---------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30728 | 41530 | 2 | Standard |
| Cl | 37 | | ug/L | | | 4438068 | 4082687 | 0 | Standard |
| > Sc | 45 | | ug/L | | | 546109 | 542497 | 1 | Standard |
| Cr | 52 | 6.585 | ug/L | 0.136 | 2 | 17159 | 134184 | 0 | Standard |
| Cr | 53 | 6.688 | ug/L | 0.127 | 1 | 216 | 13947 | 1 | Standard |
| Mn | 55 | 55.826 | ug/L | 0.951 | 1 | 1132 | 1395997 | 0 | Standard |
| > Ge | 72 | | ug/L | | | 29835 | 27863 | 1 | KED |
| Ni | 60 | 4.959 | ug/L | 0.173 | 3 | 138 | 5376 | 2 | KED |
| Ni | 62 | 5.270 | ug/L | 0.224 | 4 | 33 | 940 | 3 | KED |
| Cu | 63 | 11.137 | ug/L | 0.175 | 1 | 80 | 34438 | 0 | KED |
| Cu | 65 | 11.049 | ug/L | 0.116 | 1 | 24 | 16860 | 1 | KED |
| Zn | 66 | 25.636 | ug/L | 0.772 | 3 | 43 | 10055 | 1 | KED |
| Zn | 67 | 24.580 | ug/L | 1.336 | 5 | 3 | 1601 | 4 | KED |
| As | 75 | 2.269 | ug/L | 0.066 | 2 | 16 | 477 | 3 | KED |
| Se | 78 | 0.122 | ug/L | 0.112 | 91 | 19 | 21 | 12 | KED |
| Y | 89 | | ug/L | | | 297640 | 367919 | 1 | Standard |
| Kr | 83 | | ug/L | | | 48 | 66 | 24 | Standard |
| > In-1 | 115 | | ug/L | | | 8217 | 7772 | 3 | KED |
| Cd | 111 | 0.119 | ug/L | 0.033 | 28 | 4 | 31 | 22 | KED |
| Cd | 114 | 0.109 | ug/L | 0.021 | 19 | 2 | 63 | 16 | KED |
| > In | 115 | | ug/L | | | 413136 | 388692 | 1 | Standard |
| Ag | 107 | 0.108 | ug/L | 0.003 | 3 | 89 | 1480 | 1 | Standard |
| Ba | 135 | 15.739 | ug/L | 0.564 | 3 | 37 | 51153 | 2 | Standard |
| Ba | 137 | 15.587 | ug/L | 0.093 | 0 | 46 | 89927 | 1 | Standard |
| > Tb | 159 | | ug/L | | | 720127 | 676703 | 1 | Standard |
| Pb | 208 | 7.642 | ug/L | 0.124 | 1 | 200 | 320457 | 1 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **BLD0030-DUP2**

Sample Dil Factor: **50**

Comments:

Sample Date/Time: **Friday, April 07, 2023 23:09:59**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|---------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30728 | 42509 | 1 | Standard |
| Cl | 37 | | ug/L | | | 4438068 | 4080520 | 1 | Standard |
| [> Sc | 45 | | ug/L | | | 546109 | 517348 | 4 | Standard |
| Cr | 52 | 7.064 | ug/L | 0.334 | 4 | 17159 | 135925 | 0 | Standard |
| Cr | 53 | 7.161 | ug/L | 0.236 | 3 | 216 | 14216 | 2 | Standard |
| Mn | 55 | 60.029 | ug/L | 1.705 | 2 | 1132 | 1430513 | 3 | Standard |
| [> Ge | 72 | | ug/L | | | 29835 | 27788 | 1 | KED |
| Ni | 60 | 5.078 | ug/L | 0.050 | 0 | 138 | 5489 | 2 | KED |
| Ni | 62 | 5.267 | ug/L | 0.316 | 6 | 33 | 937 | 4 | KED |
| Cu | 63 | 11.541 | ug/L | 0.269 | 2 | 80 | 35587 | 1 | KED |
| Cu | 65 | 11.678 | ug/L | 0.224 | 1 | 24 | 17768 | 2 | KED |
| Zn | 66 | 29.204 | ug/L | 0.585 | 2 | 43 | 11419 | 1 | KED |
| Zn | 67 | 28.813 | ug/L | 0.242 | 0 | 3 | 1871 | 0 | KED |
| As | 75 | 2.503 | ug/L | 0.056 | 2 | 16 | 523 | 0 | KED |
| [Se | 78 | 0.203 | ug/L | 0.103 | 50 | 19 | 23 | 9 | KED |
| Y | 89 | | ug/L | | | 297640 | 355832 | 5 | Standard |
| Kr | 83 | | ug/L | | | 48 | 59 | 17 | Standard |
| [> In-1 | 115 | | ug/L | | | 8217 | 7603 | 3 | KED |
| Cd | 111 | 0.132 | ug/L | 0.035 | 26 | 4 | 33 | 20 | KED |
| Cd | 114 | 0.118 | ug/L | 0.027 | 22 | 2 | 67 | 19 | KED |
| [> In | 115 | | ug/L | | | 413136 | 372461 | 7 | Standard |
| Ag | 107 | 0.121 | ug/L | 0.010 | 7 | 89 | 1581 | 1 | Standard |
| Ba | 135 | 16.193 | ug/L | 0.969 | 5 | 37 | 50297 | 2 | Standard |
| [Ba | 137 | 16.141 | ug/L | 1.279 | 7 | 46 | 88878 | 0 | Standard |
| [> Tb | 159 | | ug/L | | | 720127 | 649519 | 4 | Standard |
| [Pb | 208 | 9.116 | ug/L | 0.411 | 4 | 200 | 366423 | 0 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **BLD0030-MS2**

Sample Dil Factor: **50**

Comments:

Sample Date/Time: **Friday, April 07, 2023 23:14:43**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|---------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30728 | 42549 | 2 | Standard |
| Cl | 37 | | ug/L | | | 4438068 | 4145699 | 0 | Standard |
| > Sc | 45 | | ug/L | | | 546109 | 536133 | 1 | Standard |
| Cr | 52 | 16.703 | ug/L | 0.306 | 1 | 17159 | 310569 | 2 | Standard |
| Cr | 53 | 16.753 | ug/L | 0.470 | 2 | 216 | 34204 | 1 | Standard |
| Mn | 55 | 71.174 | ug/L | 0.846 | 1 | 1132 | 1758942 | 2 | Standard |
| > Ge | 72 | | ug/L | | | 29835 | 27636 | 1 | KED |
| Ni | 60 | 15.758 | ug/L | 0.333 | 2 | 138 | 16673 | 3 | KED |
| Ni | 62 | 16.014 | ug/L | 0.515 | 3 | 33 | 2771 | 3 | KED |
| Cu | 63 | 21.916 | ug/L | 0.363 | 1 | 80 | 67142 | 0 | KED |
| Cu | 65 | 22.172 | ug/L | 0.279 | 1 | 24 | 33535 | 2 | KED |
| Zn | 66 | 60.468 | ug/L | 0.413 | 0 | 43 | 23475 | 1 | KED |
| Zn | 67 | 55.846 | ug/L | 1.753 | 3 | 3 | 3605 | 3 | KED |
| As | 75 | 12.431 | ug/L | 0.207 | 1 | 16 | 2525 | 2 | KED |
| Se | 78 | 32.037 | ug/L | 1.258 | 3 | 19 | 744 | 4 | KED |
| Y | 89 | | ug/L | | | 297640 | 375844 | 1 | Standard |
| Kr | 83 | | ug/L | | | 48 | 81 | 14 | Standard |
| > In-1 | 115 | | ug/L | | | 8217 | 7505 | 1 | KED |
| Cd | 111 | 10.596 | ug/L | 0.132 | 1 | 4 | 2352 | 1 | KED |
| Cd | 114 | 10.852 | ug/L | 0.110 | 1 | 2 | 5920 | 1 | KED |
| > In | 115 | | ug/L | | | 413136 | 387488 | 1 | Standard |
| Ag | 107 | 7.355 | ug/L | 0.179 | 2 | 89 | 95089 | 3 | Standard |
| Ba | 135 | 27.790 | ug/L | 0.479 | 1 | 37 | 90034 | 0 | Standard |
| Ba | 137 | 27.961 | ug/L | 0.519 | 1 | 46 | 160783 | 1 | Standard |
| > Tb | 159 | | ug/L | | | 720127 | 673668 | 0 | Standard |
| Pb | 208 | 20.093 | ug/L | 0.327 | 1 | 200 | 838617 | 1 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **BLD0030-MSD2**

Sample Dil Factor: **50**

Comments:

Sample Date/Time: **Friday, April 07, 2023 23:19:27**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|---------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30728 | 40134 | 2 | Standard |
| Cl | 37 | | ug/L | | | 4438068 | 4097465 | 0 | Standard |
| > Sc | 45 | | ug/L | | | 546109 | 538849 | 1 | Standard |
| Cr | 52 | 16.289 | ug/L | 0.419 | 2 | 17159 | 304726 | 0 | Standard |
| Cr | 53 | 16.477 | ug/L | 0.176 | 1 | 216 | 33826 | 2 | Standard |
| Mn | 55 | 68.561 | ug/L | 1.803 | 2 | 1132 | 1702506 | 1 | Standard |
| > Ge | 72 | | ug/L | | | 29835 | 27799 | 2 | KED |
| Ni | 60 | 15.317 | ug/L | 0.314 | 2 | 138 | 16296 | 0 | KED |
| Ni | 62 | 15.286 | ug/L | 0.818 | 5 | 33 | 2663 | 6 | KED |
| Cu | 63 | 22.030 | ug/L | 0.717 | 3 | 80 | 67871 | 2 | KED |
| Cu | 65 | 22.235 | ug/L | 0.655 | 2 | 24 | 33810 | 0 | KED |
| Zn | 66 | 58.662 | ug/L | 1.448 | 2 | 43 | 22905 | 2 | KED |
| Zn | 67 | 55.623 | ug/L | 0.748 | 1 | 3 | 3611 | 1 | KED |
| As | 75 | 12.458 | ug/L | 0.296 | 2 | 16 | 2544 | 0 | KED |
| Se | 78 | 31.795 | ug/L | 0.717 | 2 | 19 | 743 | 1 | KED |
| Y | 89 | | ug/L | | | 297640 | 367687 | 2 | Standard |
| Kr | 83 | | ug/L | | | 48 | 73 | 7 | Standard |
| > In-1 | 115 | | ug/L | | | 8217 | 7696 | 1 | KED |
| Cd | 111 | 10.181 | ug/L | 0.052 | 0 | 4 | 2317 | 1 | KED |
| Cd | 114 | 10.282 | ug/L | 0.195 | 1 | 2 | 5753 | 2 | KED |
| > In | 115 | | ug/L | | | 413136 | 387905 | 1 | Standard |
| Ag | 107 | 8.244 | ug/L | 0.169 | 2 | 89 | 106660 | 1 | Standard |
| Ba | 135 | 27.420 | ug/L | 0.057 | 0 | 37 | 88947 | 0 | Standard |
| Ba | 137 | 27.179 | ug/L | 0.190 | 0 | 46 | 156473 | 1 | Standard |
| > Tb | 159 | | ug/L | | | 720127 | 676400 | 3 | Standard |
| Pb | 208 | 18.382 | ug/L | 0.541 | 2 | 200 | 769891 | 0 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0030-PS2

Sample Dil Factor: 50

DEL

Comments:

Sample Date/Time: Friday, April 07, 2023 23:24:11

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30728 | 40633 | 2 | Standard |
| Cl | 37 | | ug/L | | | 4438068 | 4089392 | 1 | Standard |
| > Sc | 45 | | ug/L | | | 546109 | 528364 | 6 | Standard |
| Cr | 52 | 24.692 | ug/L | 1.480 | 5 | 17159 | 443473 | 0 | Standard |
| Cr | 53 | 25.420 | ug/L | 0.989 | 3 | 216 | 50978 | 2 | Standard |
| Mn | 55 | 75.662 | ug/L | 2.511 | 3 | 1132 | 1840337 | 3 | Standard |
| > Ge | 72 | | ug/L | | | 29835 | 27428 | 1 | KED |
| Ni | 60 | 24.195 | ug/L | 0.136 | 0 | 138 | 25333 | 1 | KED |
| Ni | 62 | 24.193 | ug/L | 0.605 | 2 | 33 | 4139 | 1 | KED |
| Cu | 63 | 30.872 | ug/L | 0.882 | 2 | 80 | 93837 | 2 | KED |
| Cu | 65 | 31.020 | ug/L | 1.015 | 3 | 24 | 46537 | 2 | KED |
| Zn | 66 | 89.418 | ug/L | 3.004 | 3 | 43 | 34423 | 1 | KED |
| Zn | 67 | 82.084 | ug/L | 2.079 | 2 | 3 | 5256 | 2 | KED |
| As | 75 | 21.604 | ug/L | 0.270 | 1 | 16 | 4343 | 0 | KED |
| Se | 78 | 59.111 | ug/L | 1.482 | 2 | 19 | 1347 | 1 | KED |
| Y | 89 | | ug/L | | | 297640 | 363959 | 8 | Standard |
| Kr | 83 | | ug/L | | | 48 | 69 | 4 | Standard |
| > In-1 | 115 | | ug/L | | | 8217 | 7626 | 1 | KED |
| Cd | 111 | 19.657 | ug/L | 0.633 | 3 | 4 | 4430 | 2 | KED |
| Cd | 114 | 19.554 | ug/L | 0.339 | 1 | 2 | 10837 | 0 | KED |
| > In | 115 | | ug/L | | | 413136 | 379644 | 6 | Standard |
| Ag | 107 | 20.165 | ug/L | 1.094 | 5 | 89 | 254695 | 1 | Standard |
| Ba | 135 | 36.733 | ug/L | 1.612 | 4 | 37 | 116400 | 1 | Standard |
| Ba | 137 | 36.211 | ug/L | 2.554 | 7 | 46 | 203428 | 0 | Standard |
| > Tb | 159 | | ug/L | | | 720127 | 653282 | 7 | Standard |
| Pb | 208 | 28.181 | ug/L | 1.762 | 6 | 200 | 1137098 | 2 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLA

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, April 07, 2023 23:28:56

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30728 | 31576 | 3 | Standard |
| Cl | 37 | | ug/L | | | 4438068 | 4026272 | 1 | Standard |
| [> Sc | 45 | | ug/L | | | 546109 | 462798 | 0 | Standard |
| Cr | 52 | -0.031 | ug/L | 0.014 | 46 | 17159 | 14076 | 1 | Standard |
| Cr | 53 | -0.032 | ug/L | 0.003 | 10 | 216 | 127 | 4 | Standard |
| Mn | 55 | -0.013 | ug/L | 0.001 | 3 | 1132 | 676 | 1 | Standard |
| [> Ge | 72 | | ug/L | | | 29835 | 26530 | 2 | KED |
| Ni | 60 | -0.098 | ug/L | 0.005 | 5 | 138 | 24 | 20 | KED |
| Ni | 62 | -0.132 | ug/L | 0.025 | 18 | 33 | 8 | 48 | KED |
| Cu | 63 | 0.028 | ug/L | 0.006 | 23 | 80 | 152 | 9 | KED |
| Cu | 65 | 0.038 | ug/L | 0.009 | 23 | 24 | 77 | 17 | KED |
| Zn | 66 | 0.008 | ug/L | 0.018 | 229 | 43 | 41 | 14 | KED |
| Zn | 67 | 0.028 | ug/L | 0.067 | 235 | 3 | 5 | 78 | KED |
| As | 75 | -0.042 | ug/L | 0.004 | 8 | 16 | 6 | 11 | KED |
| Se | 78 | -0.049 | ug/L | 0.074 | 149 | 19 | 16 | 7 | KED |
| Y | 89 | | ug/L | | | 297640 | 265431 | 0 | Standard |
| Kr | 83 | | ug/L | | | 48 | 34 | 38 | Standard |
| [> In-1 | 115 | | ug/L | | | 8217 | 7342 | 2 | KED |
| Cd | 111 | 0.003 | ug/L | 0.009 | 257 | 4 | 4 | 44 | KED |
| Cd | 114 | 0.000 | ug/L | 0.002 | 497 | 2 | 2 | 46 | KED |
| [> In | 115 | | ug/L | | | 413136 | 372303 | 0 | Standard |
| Ag | 107 | -0.003 | ug/L | 0.001 | 27 | 89 | 46 | 20 | Standard |
| Ba | 135 | 0.004 | ug/L | 0.005 | 141 | 37 | 45 | 35 | Standard |
| Ba | 137 | 0.008 | ug/L | 0.003 | 42 | 46 | 86 | 21 | Standard |
| [> Tb | 159 | | ug/L | | | 720127 | 640099 | 1 | Standard |
| Pb | 208 | -0.001 | ug/L | 0.001 | 105 | 200 | 147 | 21 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVA

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, April 07, 2023 23:33:41

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30728 | 31299 | 2 | Standard |
| Cl | 37 | | ug/L | | | 4438068 | 4274200 | 0 | Standard |
| [> Sc | 45 | | ug/L | | | 546109 | 487685 | 1 | Standard |
| Cr | 52 | 50.579 | ug/L | 1.067 | 2 | 17159 | 824256 | 1 | Standard |
| Cr | 53 | 50.707 | ug/L | 1.011 | 1 | 216 | 93798 | 1 | Standard |
| Mn | 55 | 50.528 | ug/L | 0.535 | 1 | 1132 | 1136045 | 0 | Standard |
| [> Ge | 72 | | ug/L | | | 29835 | 26969 | 1 | KED |
| Ni | 60 | 49.486 | ug/L | 1.131 | 2 | 138 | 50808 | 1 | KED |
| Ni | 62 | 50.041 | ug/L | 1.607 | 3 | 33 | 8386 | 3 | KED |
| Cu | 63 | 50.258 | ug/L | 0.346 | 0 | 80 | 150168 | 1 | KED |
| Cu | 65 | 50.040 | ug/L | 0.597 | 1 | 24 | 73831 | 2 | KED |
| Zn | 66 | 50.156 | ug/L | 0.345 | 0 | 43 | 19008 | 1 | KED |
| Zn | 67 | 51.151 | ug/L | 1.955 | 3 | 3 | 3221 | 2 | KED |
| As | 75 | 50.586 | ug/L | 0.637 | 1 | 16 | 9980 | 0 | KED |
| Se | 78 | 50.617 | ug/L | 0.085 | 0 | 19 | 1137 | 1 | KED |
| Y | 89 | | ug/L | | | 297640 | 279113 | 1 | Standard |
| Kr | 83 | | ug/L | | | 48 | 48 | 9 | Standard |
| [> In-1 | 115 | | ug/L | | | 8217 | 7601 | 1 | KED |
| Cd | 111 | 49.561 | ug/L | 0.630 | 1 | 4 | 11130 | 1 | KED |
| Cd | 114 | 49.100 | ug/L | 1.523 | 3 | 2 | 27121 | 2 | KED |
| [> In | 115 | | ug/L | | | 413136 | 381521 | 2 | Standard |
| Ag | 107 | 50.009 | ug/L | 1.624 | 3 | 89 | 635962 | 3 | Standard |
| Ba | 135 | 51.156 | ug/L | 2.353 | 4 | 37 | 163099 | 3 | Standard |
| Ba | 137 | 50.661 | ug/L | 1.786 | 3 | 46 | 286680 | 1 | Standard |
| [> Tb | 159 | | ug/L | | | 720127 | 659754 | 0 | Standard |
| Pb | 208 | 50.500 | ug/L | 0.441 | 0 | 200 | 2063925 | 0 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBA

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, April 07, 2023 23:41:09

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30728 | 31490 | 1 | Standard |
| Cl | 37 | | ug/L | | | 4438068 | 4110847 | 1 | Standard |
| [> Sc | 45 | | ug/L | | | 546109 | 463837 | 1 | Standard |
| Cr | 52 | -0.011 | ug/L | 0.035 | 310 | 17159 | 14398 | 1 | Standard |
| Cr | 53 | -0.035 | ug/L | 0.002 | 6 | 216 | 122 | 4 | Standard |
| Mn | 55 | -0.014 | ug/L | 0.002 | 11 | 1132 | 655 | 3 | Standard |
| [> Ge | 72 | | ug/L | | | 29835 | 26634 | 1 | KED |
| Ni | 60 | -0.106 | ug/L | 0.007 | 6 | 138 | 16 | 40 | KED |
| Ni | 62 | -0.109 | ug/L | 0.006 | 5 | 33 | 12 | 9 | KED |
| Cu | 63 | -0.007 | ug/L | 0.004 | 59 | 80 | 51 | 22 | KED |
| Cu | 65 | 0.003 | ug/L | 0.005 | 169 | 24 | 26 | 25 | KED |
| Zn | 66 | -0.022 | ug/L | 0.021 | 97 | 43 | 30 | 25 | KED |
| Zn | 67 | 0.017 | ug/L | 0.017 | 99 | 3 | 4 | 24 | KED |
| As | 75 | -0.044 | ug/L | 0.006 | 12 | 16 | 6 | 19 | KED |
| [Se | 78 | -0.039 | ug/L | 0.054 | 137 | 19 | 16 | 8 | KED |
| Y | 89 | | ug/L | | | 297640 | 261052 | 1 | Standard |
| Kr | 83 | | ug/L | | | 48 | 43 | 20 | Standard |
| [> In-1 | 115 | | ug/L | | | 8217 | 7420 | 1 | KED |
| Cd | 111 | 0.005 | ug/L | 0.009 | 187 | 4 | 4 | 40 | KED |
| Cd | 114 | 0.008 | ug/L | 0.002 | 26 | 2 | 6 | 18 | KED |
| [> In | 115 | | ug/L | | | 413136 | 377722 | 0 | Standard |
| Ag | 107 | -0.001 | ug/L | 0.000 | 23 | 89 | 64 | 6 | Standard |
| Ba | 135 | -0.004 | ug/L | 0.001 | 32 | 37 | 21 | 18 | Standard |
| [Ba | 137 | -0.001 | ug/L | 0.001 | 109 | 46 | 35 | 21 | Standard |
| [> Tb | 159 | | ug/L | | | 720127 | 632607 | 0 | Standard |
| [Pb | 208 | -0.000 | ug/L | 0.001 | 691 | 200 | 172 | 14 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, April 07, 2023 23:45:53

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | | 30779 | 2 | Standard |
| Cl | 37 | | ug/L | | | | 4052820 | 1 | Standard |
| [> Sc | 45 | | ug/L | | | | 457643 | 1 | Standard |
| Cr | 52 | | ug/L | | | | 14350 | 3 | Standard |
| Cr | 53 | | ug/L | | | | 118 | 5 | Standard |
| Mn | 55 | | ug/L | | | | 638 | 1 | Standard |
| [> Ge | 72 | | ug/L | | | | 26593 | 0 | KED |
| Ni | 60 | | ug/L | | | | 24 | 20 | KED |
| Ni | 62 | | ug/L | | | | 4 | 89 | KED |
| Cu | 63 | | ug/L | | | | 39 | 16 | KED |
| Cu | 65 | | ug/L | | | | 28 | 6 | KED |
| Zn | 66 | | ug/L | | | | 24 | 36 | KED |
| Zn | 67 | | ug/L | | | | 3 | 50 | KED |
| As | 75 | | ug/L | | | | 6 | 32 | KED |
| Se | 78 | | ug/L | | | | 20 | 16 | KED |
| Y | 89 | | ug/L | | | | 265146 | 1 | Standard |
| Kr | 83 | | ug/L | | | | 48 | 27 | Standard |
| [> In-1 | 115 | | ug/L | | | | 7168 | 2 | KED |
| Cd | 111 | | ug/L | | | | 3 | 66 | KED |
| Cd | 114 | | ug/L | | | | 3 | 72 | KED |
| [> In | 115 | | ug/L | | | | 374013 | 1 | Standard |
| Ag | 107 | | ug/L | | | | 48 | 15 | Standard |
| Ba | 135 | | ug/L | | | | 24 | 7 | Standard |
| Ba | 137 | | ug/L | | | | 29 | 25 | Standard |
| [> Tb | 159 | | ug/L | | | | 624828 | 1 | Standard |
| Pb | 208 | | ug/L | | | | 160 | 6 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVB

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, April 07, 2023 23:50:38

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30779 | 31113 | 3 | Standard |
| Cl | 37 | | ug/L | | | 4052820 | 4217623 | 0 | Standard |
| [> Sc | 45 | | ug/L | | | 457643 | 473497 | 0 | Standard |
| Cr | 52 | 51.408 | ug/L | 0.812 | 1 | 14350 | 813146 | 0 | Standard |
| Cr | 53 | 51.725 | ug/L | 0.960 | 1 | 118 | 92830 | 1 | Standard |
| Mn | 55 | 51.642 | ug/L | 0.257 | 0 | 638 | 1127010 | 0 | Standard |
| [> Ge | 72 | | ug/L | | | 26593 | 26690 | 1 | KED |
| Ni | 60 | 48.951 | ug/L | 0.585 | 1 | 24 | 49645 | 0 | KED |
| Ni | 62 | 48.356 | ug/L | 0.627 | 1 | 4 | 7995 | 1 | KED |
| Cu | 63 | 49.568 | ug/L | 0.745 | 1 | 39 | 146531 | 0 | KED |
| Cu | 65 | 50.252 | ug/L | 0.960 | 1 | 28 | 73364 | 0 | KED |
| Zn | 66 | 50.337 | ug/L | 1.069 | 2 | 24 | 18861 | 0 | KED |
| Zn | 67 | 50.422 | ug/L | 0.490 | 0 | 3 | 3144 | 2 | KED |
| As | 75 | 50.641 | ug/L | 0.265 | 0 | 6 | 9881 | 1 | KED |
| [Se | 78 | 50.193 | ug/L | 0.907 | 1 | 20 | 1119 | 3 | KED |
| Y | 89 | | ug/L | | | 265146 | 270958 | 0 | Standard |
| Kr | 83 | | ug/L | | | 48 | 51 | 9 | Standard |
| [> In-1 | 115 | | ug/L | | | 7168 | 7480 | 2 | KED |
| Cd | 111 | 50.296 | ug/L | 0.978 | 1 | 3 | 11112 | 0 | KED |
| [Cd | 114 | 48.957 | ug/L | 2.643 | 5 | 3 | 26596 | 3 | KED |
| [> In | 115 | | ug/L | | | 374013 | 374346 | 0 | Standard |
| Ag | 107 | 51.403 | ug/L | 0.502 | 0 | 48 | 641406 | 0 | Standard |
| Ba | 135 | 51.477 | ug/L | 0.982 | 1 | 24 | 161106 | 1 | Standard |
| [Ba | 137 | 51.599 | ug/L | 0.207 | 0 | 29 | 286629 | 0 | Standard |
| [> Tb | 159 | | ug/L | | | 624828 | 648333 | 1 | Standard |
| [Pb | 208 | 50.752 | ug/L | 0.404 | 0 | 160 | 2038272 | 0 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBB

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, April 07, 2023 23:58:06

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30779 | 30542 | 2 | Standard |
| Cl | 37 | | ug/L | | | 4052820 | 4147744 | 1 | Standard |
| [> Sc | 45 | | ug/L | | | 457643 | 465460 | 1 | Standard |
| Cr | 52 | -0.029 | ug/L | 0.019 | 64 | 14350 | 14144 | 0 | Standard |
| Cr | 53 | -0.002 | ug/L | 0.008 | 349 | 118 | 116 | 10 | Standard |
| Mn | 55 | -0.001 | ug/L | 0.001 | 133 | 638 | 634 | 2 | Standard |
| [> Ge | 72 | | ug/L | | | 26593 | 26507 | 1 | KED |
| Ni | 60 | -0.005 | ug/L | 0.014 | 286 | 24 | 19 | 73 | KED |
| Ni | 62 | 0.008 | ug/L | 0.042 | 546 | 4 | 5 | 120 | KED |
| Cu | 63 | 0.002 | ug/L | 0.003 | 124 | 39 | 46 | 19 | KED |
| Cu | 65 | 0.004 | ug/L | 0.003 | 75 | 28 | 33 | 13 | KED |
| Zn | 66 | 0.007 | ug/L | 0.028 | 388 | 24 | 26 | 37 | KED |
| Zn | 67 | 0.063 | ug/L | 0.082 | 131 | 3 | 7 | 66 | KED |
| As | 75 | 0.005 | ug/L | 0.005 | 109 | 6 | 7 | 15 | KED |
| Se | 78 | -0.216 | ug/L | 0.162 | 74 | 20 | 16 | 21 | KED |
| Y | 89 | | ug/L | | | 265146 | 263033 | 2 | Standard |
| Kr | 83 | | ug/L | | | 48 | 43 | 34 | Standard |
| [> In-1 | 115 | | ug/L | | | 7168 | 7439 | 0 | KED |
| Cd | 111 | -0.001 | ug/L | 0.009 | 1310 | 3 | 3 | 50 | KED |
| Cd | 114 | 0.010 | ug/L | 0.002 | 19 | 3 | 8 | 12 | KED |
| [> In | 115 | | ug/L | | | 374013 | 371286 | 0 | Standard |
| Ag | 107 | 0.001 | ug/L | 0.001 | 97 | 48 | 62 | 20 | Standard |
| Ba | 135 | -0.001 | ug/L | 0.003 | 300 | 24 | 20 | 50 | Standard |
| Ba | 137 | 0.002 | ug/L | 0.001 | 64 | 29 | 38 | 15 | Standard |
| [> Tb | 159 | | ug/L | | | 624828 | 629424 | 2 | Standard |
| Pb | 208 | 0.000 | ug/L | 0.000 | 185 | 160 | 170 | 10 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **BLD0022-BLK3**

Sample Dil Factor:

Comments:

Sample Date/Time: **Saturday, April 08, 2023 00:02:51**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30779 | 42848 | 1 | Standard |
| Cl | 37 | | ug/L | | | 4052820 | 4056450 | 1 | Standard |
| > Sc | 45 | | ug/L | | | 457643 | 478236 | 0 | Standard |
| Cr | 52 | 0.012 | ug/L | 0.035 | 290 | 14350 | 15185 | 3 | Standard |
| Cr | 53 | 0.028 | ug/L | 0.002 | 8 | 118 | 173 | 2 | Standard |
| Mn | 55 | 0.009 | ug/L | 0.000 | 3 | 638 | 870 | 0 | Standard |
| > Ge | 72 | | ug/L | | | 26593 | 26647 | 0 | KED |
| Ni | 60 | -0.011 | ug/L | 0.003 | 27 | 24 | 13 | 20 | KED |
| Ni | 62 | 0.027 | ug/L | 0.024 | 89 | 4 | 8 | 44 | KED |
| Cu | 63 | 0.021 | ug/L | 0.003 | 16 | 39 | 100 | 9 | KED |
| Cu | 65 | 0.013 | ug/L | 0.003 | 26 | 28 | 47 | 10 | KED |
| Zn | 66 | 0.104 | ug/L | 0.029 | 27 | 24 | 62 | 16 | KED |
| Zn | 67 | 0.112 | ug/L | 0.063 | 56 | 3 | 10 | 36 | KED |
| As | 75 | -0.004 | ug/L | 0.017 | 405 | 6 | 6 | 53 | KED |
| Se | 78 | -0.295 | ug/L | 0.145 | 49 | 20 | 14 | 22 | KED |
| Y | 89 | | ug/L | | | 265146 | 270287 | 1 | Standard |
| Kr | 83 | | ug/L | | | 48 | 51 | 16 | Standard |
| > In-1 | 115 | | ug/L | | | 7168 | 7316 | 1 | KED |
| Cd | 111 | -0.003 | ug/L | 0.009 | 288 | 3 | 3 | 62 | KED |
| Cd | 114 | -0.000 | ug/L | 0.004 | 1182 | 3 | 2 | 72 | KED |
| > In | 115 | | ug/L | | | 374013 | 384803 | 0 | Standard |
| Ag | 107 | -0.000 | ug/L | 0.001 | 2059 | 48 | 49 | 30 | Standard |
| Ba | 135 | 0.056 | ug/L | 0.003 | 5 | 24 | 205 | 4 | Standard |
| Ba | 137 | 0.058 | ug/L | 0.004 | 6 | 29 | 361 | 6 | Standard |
| > Tb | 159 | | ug/L | | | 624828 | 635459 | 1 | Standard |
| Pb | 208 | -0.001 | ug/L | 0.000 | 31 | 160 | 133 | 5 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **BLD0022-BS3**

Sample Dil Factor:

Comments:

Sample Date/Time: **Saturday, April 08, 2023 00:07:35**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30779 | 45016 | 2 | Standard |
| Cl | 37 | | ug/L | | | 4052820 | 4249359 | 1 | Standard |
| [> Sc | 45 | | ug/L | | | 457643 | 478705 | 1 | Standard |
| Cr | 52 | 26.038 | ug/L | 0.414 | 1 | 14350 | 423855 | 2 | Standard |
| Cr | 53 | 26.161 | ug/L | 0.598 | 2 | 118 | 47521 | 0 | Standard |
| Mn | 55 | 25.495 | ug/L | 0.529 | 2 | 638 | 562749 | 0 | Standard |
| [> Ge | 72 | | ug/L | | | 26593 | 26252 | 2 | KED |
| Ni | 60 | 25.590 | ug/L | 1.033 | 4 | 24 | 25525 | 1 | KED |
| Ni | 62 | 26.217 | ug/L | 0.654 | 2 | 4 | 4264 | 0 | KED |
| Cu | 63 | 25.600 | ug/L | 0.608 | 2 | 39 | 74439 | 0 | KED |
| Cu | 65 | 25.444 | ug/L | 0.391 | 1 | 28 | 36548 | 1 | KED |
| Zn | 66 | 84.802 | ug/L | 2.601 | 3 | 24 | 31231 | 1 | KED |
| Zn | 67 | 78.703 | ug/L | 1.778 | 2 | 3 | 4823 | 0 | KED |
| As | 75 | 26.283 | ug/L | 0.606 | 2 | 6 | 5045 | 0 | KED |
| Se | 78 | 84.539 | ug/L | 2.856 | 3 | 20 | 1839 | 0 | KED |
| Y | 89 | | ug/L | | | 265146 | 269142 | 0 | Standard |
| Kr | 83 | | ug/L | | | 48 | 42 | 9 | Standard |
| [> In-1 | 115 | | ug/L | | | 7168 | 7272 | 1 | KED |
| Cd | 111 | 25.785 | ug/L | 0.774 | 3 | 3 | 5540 | 1 | KED |
| Cd | 114 | 25.880 | ug/L | 0.321 | 1 | 3 | 13681 | 2 | KED |
| [> In | 115 | | ug/L | | | 374013 | 370590 | 1 | Standard |
| Ag | 107 | 26.293 | ug/L | 0.697 | 2 | 48 | 324880 | 3 | Standard |
| Ba | 135 | 27.277 | ug/L | 0.374 | 1 | 24 | 84514 | 0 | Standard |
| Ba | 137 | 26.401 | ug/L | 0.146 | 0 | 29 | 145198 | 1 | Standard |
| [> Tb | 159 | | ug/L | | | 624828 | 653237 | 2 | Standard |
| Pb | 208 | 25.738 | ug/L | 0.482 | 1 | 160 | 1041360 | 0 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23A0157-06**

Sample Dil Factor: **50**

Comments:

Sample Date/Time: **Saturday, April 08, 2023 00:12:19**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|---------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30779 | 42760 | 1 | Standard |
| Cl | 37 | | ug/L | | | 4052820 | 4061760 | 1 | Standard |
| [> Sc | 45 | | ug/L | | | 457643 | 533058 | 0 | Standard |
| Cr | 52 | 5.667 | ug/L | 0.125 | 2 | 14350 | 115793 | 2 | Standard |
| Cr | 53 | 5.860 | ug/L | 0.105 | 1 | 118 | 11962 | 1 | Standard |
| Mn | 55 | 70.597 | ug/L | 1.010 | 1 | 638 | 1734218 | 1 | Standard |
| [> Ge | 72 | | ug/L | | | 26593 | 27478 | 1 | KED |
| Ni | 60 | 5.204 | ug/L | 0.129 | 2 | 24 | 5458 | 3 | KED |
| Ni | 62 | 5.409 | ug/L | 0.185 | 3 | 4 | 925 | 4 | KED |
| Cu | 63 | 12.046 | ug/L | 0.256 | 2 | 39 | 36697 | 2 | KED |
| Cu | 65 | 12.174 | ug/L | 0.270 | 2 | 28 | 18324 | 2 | KED |
| Zn | 66 | 19.749 | ug/L | 0.323 | 1 | 24 | 7635 | 1 | KED |
| Zn | 67 | 19.948 | ug/L | 0.352 | 1 | 3 | 1283 | 2 | KED |
| As | 75 | 2.383 | ug/L | 0.088 | 3 | 6 | 485 | 4 | KED |
| [Se | 78 | 0.415 | ug/L | 0.151 | 36 | 20 | 31 | 12 | KED |
| Y | 89 | | ug/L | | | 265146 | 365548 | 2 | Standard |
| Kr | 83 | | ug/L | | | 48 | 71 | 18 | Standard |
| [> In-1 | 115 | | ug/L | | | 7168 | 7598 | 0 | KED |
| Cd | 111 | 0.037 | ug/L | 0.008 | 20 | 3 | 12 | 13 | KED |
| Cd | 114 | 0.046 | ug/L | 0.006 | 11 | 3 | 28 | 10 | KED |
| [> In | 115 | | ug/L | | | 374013 | 384692 | 4 | Standard |
| Ag | 107 | 0.042 | ug/L | 0.011 | 26 | 48 | 584 | 19 | Standard |
| Ba | 135 | 16.742 | ug/L | 0.330 | 1 | 24 | 53836 | 2 | Standard |
| [Ba | 137 | 16.546 | ug/L | 0.713 | 4 | 29 | 94355 | 0 | Standard |
| [> Tb | 159 | | ug/L | | | 624828 | 674654 | 1 | Standard |
| [Pb | 208 | 3.511 | ug/L | 0.085 | 2 | 160 | 146857 | 0 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23A0157-07**

Sample Dil Factor: **50**

Comments:

Sample Date/Time: **Saturday, April 08, 2023 00:17:04**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|---------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30779 | 43190 | 1 | Standard |
| Cl | 37 | | ug/L | | | 4052820 | 4080317 | 1 | Standard |
| [> Sc | 45 | | ug/L | | | 457643 | 539441 | 0 | Standard |
| Cr | 52 | 6.666 | ug/L | 0.055 | 0 | 14350 | 134849 | 0 | Standard |
| Cr | 53 | 6.790 | ug/L | 0.132 | 1 | 118 | 14004 | 1 | Standard |
| Mn | 55 | 57.837 | ug/L | 0.446 | 0 | 638 | 1437988 | 1 | Standard |
| [> Ge | 72 | | ug/L | | | 26593 | 27700 | 0 | KED |
| Ni | 60 | 5.103 | ug/L | 0.167 | 3 | 24 | 5394 | 3 | KED |
| Ni | 62 | 5.396 | ug/L | 0.206 | 3 | 4 | 930 | 3 | KED |
| Cu | 63 | 16.497 | ug/L | 0.530 | 3 | 39 | 50648 | 3 | KED |
| Cu | 65 | 16.666 | ug/L | 0.398 | 2 | 28 | 25277 | 2 | KED |
| Zn | 66 | 25.171 | ug/L | 0.391 | 1 | 24 | 9802 | 1 | KED |
| Zn | 67 | 23.376 | ug/L | 0.276 | 1 | 3 | 1515 | 0 | KED |
| As | 75 | 2.218 | ug/L | 0.055 | 2 | 6 | 456 | 1 | KED |
| Se | 78 | 0.167 | ug/L | 0.084 | 50 | 20 | 25 | 7 | KED |
| Y | 89 | | ug/L | | | 265146 | 375445 | 2 | Standard |
| Kr | 83 | | ug/L | | | 48 | 87 | 13 | Standard |
| [> In-1 | 115 | | ug/L | | | 7168 | 7539 | 0 | KED |
| Cd | 111 | 0.086 | ug/L | 0.006 | 6 | 3 | 23 | 6 | KED |
| Cd | 114 | 0.090 | ug/L | 0.008 | 9 | 3 | 52 | 9 | KED |
| [> In | 115 | | ug/L | | | 374013 | 382604 | 1 | Standard |
| Ag | 107 | 0.078 | ug/L | 0.002 | 3 | 48 | 1050 | 3 | Standard |
| Ba | 135 | 15.753 | ug/L | 0.250 | 1 | 24 | 50398 | 0 | Standard |
| Ba | 137 | 15.947 | ug/L | 0.509 | 3 | 29 | 90520 | 1 | Standard |
| [> Tb | 159 | | ug/L | | | 624828 | 670801 | 1 | Standard |
| Pb | 208 | 6.748 | ug/L | 0.030 | 0 | 160 | 280575 | 0 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23A0157-08**

Sample Dil Factor: **50**

Comments:

Sample Date/Time: **Saturday, April 08, 2023 00:21:47**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|---------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30779 | 41628 | 4 | Standard |
| Cl | 37 | | ug/L | | | 4052820 | 4024701 | 0 | Standard |
| > Sc | 45 | | ug/L | | | 457643 | 525565 | 1 | Standard |
| Cr | 52 | 6.274 | ug/L | 0.214 | 3 | 14350 | 124598 | 1 | Standard |
| Cr | 53 | 6.359 | ug/L | 0.085 | 1 | 118 | 12786 | 1 | Standard |
| Mn | 55 | 58.061 | ug/L | 0.413 | 0 | 638 | 1406461 | 2 | Standard |
| > Ge | 72 | | ug/L | | | 26593 | 27621 | 1 | KED |
| Ni | 60 | 4.990 | ug/L | 0.158 | 3 | 24 | 5259 | 2 | KED |
| Ni | 62 | 5.155 | ug/L | 0.036 | 0 | 4 | 886 | 1 | KED |
| Cu | 63 | 16.273 | ug/L | 0.255 | 1 | 39 | 49815 | 1 | KED |
| Cu | 65 | 16.380 | ug/L | 0.576 | 3 | 28 | 24764 | 2 | KED |
| Zn | 66 | 24.675 | ug/L | 0.604 | 2 | 24 | 9580 | 1 | KED |
| Zn | 67 | 22.541 | ug/L | 0.633 | 2 | 3 | 1456 | 2 | KED |
| As | 75 | 2.095 | ug/L | 0.032 | 1 | 6 | 430 | 1 | KED |
| Se | 78 | -0.028 | ug/L | 0.232 | 826 | 20 | 21 | 24 | KED |
| Y | 89 | | ug/L | | | 265146 | 358092 | 1 | Standard |
| Kr | 83 | | ug/L | | | 48 | 67 | 18 | Standard |
| > In-1 | 115 | | ug/L | | | 7168 | 7494 | 0 | KED |
| Cd | 111 | 0.075 | ug/L | 0.010 | 12 | 3 | 20 | 10 | KED |
| Cd | 114 | 0.087 | ug/L | 0.011 | 12 | 3 | 50 | 11 | KED |
| > In | 115 | | ug/L | | | 374013 | 383317 | 1 | Standard |
| Ag | 107 | 0.069 | ug/L | 0.003 | 4 | 48 | 935 | 3 | Standard |
| Ba | 135 | 14.694 | ug/L | 0.267 | 1 | 24 | 47115 | 3 | Standard |
| Ba | 137 | 14.673 | ug/L | 0.025 | 0 | 29 | 83480 | 1 | Standard |
| > Tb | 159 | | ug/L | | | 624828 | 670083 | 2 | Standard |
| Pb | 208 | 6.026 | ug/L | 0.152 | 2 | 160 | 250220 | 1 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23A0157-10**

Sample Dil Factor: **50**

Comments:

Sample Date/Time: **Saturday, April 08, 2023 00:26:31**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|---------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30779 | 43378 | 3 | Standard |
| Cl | 37 | | ug/L | | | 4052820 | 4106283 | 2 | Standard |
| > Sc | 45 | | ug/L | | | 457643 | 528331 | 2 | Standard |
| Cr | 52 | 5.822 | ug/L | 0.156 | 2 | 14350 | 117403 | 0 | Standard |
| Cr | 53 | 6.069 | ug/L | 0.213 | 3 | 118 | 12267 | 1 | Standard |
| Mn | 55 | 55.965 | ug/L | 1.783 | 3 | 638 | 1362057 | 0 | Standard |
| > Ge | 72 | | ug/L | | | 26593 | 27935 | 1 | KED |
| Ni | 60 | 4.742 | ug/L | 0.121 | 2 | 24 | 5058 | 3 | KED |
| Ni | 62 | 4.836 | ug/L | 0.264 | 5 | 4 | 841 | 5 | KED |
| Cu | 63 | 10.979 | ug/L | 0.150 | 1 | 39 | 34009 | 2 | KED |
| Cu | 65 | 11.025 | ug/L | 0.090 | 0 | 28 | 16874 | 1 | KED |
| Zn | 66 | 24.132 | ug/L | 0.225 | 0 | 24 | 9478 | 0 | KED |
| Zn | 67 | 24.189 | ug/L | 0.440 | 1 | 3 | 1581 | 2 | KED |
| As | 75 | 2.255 | ug/L | 0.129 | 5 | 6 | 467 | 5 | KED |
| Se | 78 | 0.117 | ug/L | 0.016 | 13 | 20 | 24 | 2 | KED |
| Y | 89 | | ug/L | | | 265146 | 359062 | 0 | Standard |
| Kr | 83 | | ug/L | | | 48 | 59 | 11 | Standard |
| > In-1 | 115 | | ug/L | | | 7168 | 7669 | 3 | KED |
| Cd | 111 | 0.054 | ug/L | 0.035 | 64 | 3 | 16 | 46 | KED |
| Cd | 114 | 0.083 | ug/L | 0.004 | 4 | 3 | 49 | 7 | KED |
| > In | 115 | | ug/L | | | 374013 | 384704 | 1 | Standard |
| Ag | 107 | 0.074 | ug/L | 0.003 | 4 | 48 | 994 | 5 | Standard |
| Ba | 135 | 14.972 | ug/L | 0.265 | 1 | 24 | 48163 | 0 | Standard |
| Ba | 137 | 14.749 | ug/L | 0.364 | 2 | 29 | 84191 | 0 | Standard |
| > Tb | 159 | | ug/L | | | 624828 | 665886 | 1 | Standard |
| Pb | 208 | 6.488 | ug/L | 0.062 | 0 | 160 | 267760 | 0 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23A0157-12**

Sample Dil Factor: **50**

Comments:

Sample Date/Time: **Saturday, April 08, 2023 00:31:15**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|---------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30779 | 43216 | 3 | Standard |
| Cl | 37 | | ug/L | | | 4052820 | 4035076 | 0 | Standard |
| > Sc | 45 | | ug/L | | | 457643 | 545867 | 1 | Standard |
| Cr | 52 | 6.463 | ug/L | 0.029 | 0 | 14350 | 132827 | 1 | Standard |
| Cr | 53 | 6.739 | ug/L | 0.247 | 3 | 118 | 14060 | 2 | Standard |
| Mn | 55 | 67.921 | ug/L | 1.698 | 2 | 638 | 1708144 | 1 | Standard |
| > Ge | 72 | | ug/L | | | 26593 | 28190 | 2 | KED |
| Ni | 60 | 5.221 | ug/L | 0.060 | 1 | 24 | 5616 | 2 | KED |
| Ni | 62 | 5.263 | ug/L | 0.189 | 3 | 4 | 923 | 5 | KED |
| Cu | 63 | 12.211 | ug/L | 0.075 | 0 | 39 | 38163 | 2 | KED |
| Cu | 65 | 11.961 | ug/L | 0.522 | 4 | 28 | 18455 | 1 | KED |
| Zn | 66 | 24.425 | ug/L | 0.837 | 3 | 24 | 9678 | 2 | KED |
| Zn | 67 | 24.498 | ug/L | 0.366 | 1 | 3 | 1615 | 1 | KED |
| As | 75 | 2.565 | ug/L | 0.046 | 1 | 6 | 535 | 2 | KED |
| Se | 78 | 0.125 | ug/L | 0.204 | 164 | 20 | 25 | 16 | KED |
| Y | 89 | | ug/L | | | 265146 | 369718 | 2 | Standard |
| Kr | 83 | | ug/L | | | 48 | 63 | 12 | Standard |
| > In-1 | 115 | | ug/L | | | 7168 | 6728 | 8 | KED |
| Cd | 111 | 0.126 | ug/L | 0.021 | 16 | 3 | 28 | 16 | KED |
| Cd | 114 | 0.122 | ug/L | 0.017 | 13 | 3 | 62 | 8 | KED |
| > In | 115 | | ug/L | | | 374013 | 381658 | 1 | Standard |
| Ag | 107 | 0.096 | ug/L | 0.006 | 6 | 48 | 1272 | 4 | Standard |
| Ba | 135 | 19.481 | ug/L | 0.533 | 2 | 24 | 62157 | 1 | Standard |
| Ba | 137 | 19.570 | ug/L | 0.511 | 2 | 29 | 110819 | 1 | Standard |
| > Tb | 159 | | ug/L | | | 624828 | 668673 | 0 | Standard |
| Pb | 208 | 8.585 | ug/L | 0.061 | 0 | 160 | 355766 | 0 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23A0157-13**

Sample Dil Factor: **50**

Comments:

Sample Date/Time: **Saturday, April 08, 2023 00:35:59**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|---------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30779 | 43634 | 3 | Standard |
| Cl | 37 | | ug/L | | | 4052820 | 4015585 | 1 | Standard |
| > Sc | 45 | | ug/L | | | 457643 | 532366 | 0 | Standard |
| Cr | 52 | 6.564 | ug/L | 0.077 | 1 | 14350 | 131308 | 1 | Standard |
| Cr | 53 | 6.603 | ug/L | 0.020 | 0 | 118 | 13445 | 0 | Standard |
| Mn | 55 | 83.961 | ug/L | 3.262 | 3 | 638 | 2059439 | 3 | Standard |
| > Ge | 72 | | ug/L | | | 26593 | 27595 | 1 | KED |
| Ni | 60 | 5.132 | ug/L | 0.118 | 2 | 24 | 5403 | 0 | KED |
| Ni | 62 | 5.198 | ug/L | 0.238 | 4 | 4 | 892 | 4 | KED |
| Cu | 63 | 13.776 | ug/L | 0.362 | 2 | 39 | 42133 | 1 | KED |
| Cu | 65 | 13.870 | ug/L | 0.422 | 3 | 28 | 20955 | 1 | KED |
| Zn | 66 | 26.882 | ug/L | 0.355 | 1 | 24 | 10427 | 1 | KED |
| Zn | 67 | 26.148 | ug/L | 0.279 | 1 | 3 | 1687 | 1 | KED |
| As | 75 | 3.450 | ug/L | 0.196 | 5 | 6 | 702 | 4 | KED |
| Se | 78 | 0.516 | ug/L | 0.243 | 46 | 20 | 33 | 17 | KED |
| Y | 89 | | ug/L | | | 265146 | 381848 | 2 | Standard |
| Kr | 83 | | ug/L | | | 48 | 71 | 8 | Standard |
| > In-1 | 115 | | ug/L | | | 7168 | 7563 | 2 | KED |
| Cd | 111 | 0.135 | ug/L | 0.002 | 1 | 3 | 34 | 2 | KED |
| Cd | 114 | 0.133 | ug/L | 0.041 | 30 | 3 | 75 | 27 | KED |
| > In | 115 | | ug/L | | | 374013 | 385172 | 1 | Standard |
| Ag | 107 | 0.107 | ug/L | 0.008 | 7 | 48 | 1424 | 6 | Standard |
| Ba | 135 | 24.441 | ug/L | 0.528 | 2 | 24 | 78707 | 1 | Standard |
| Ba | 137 | 24.827 | ug/L | 0.311 | 1 | 29 | 141907 | 1 | Standard |
| > Tb | 159 | | ug/L | | | 624828 | 660783 | 0 | Standard |
| Pb | 208 | 8.692 | ug/L | 0.070 | 0 | 160 | 355945 | 0 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23C0644-01**

Sample Dil Factor: **20**

Comments:

Sample Date/Time: **Saturday, April 08, 2023 00:40:37**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|----------------|-------|--------------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30779 | 52998 | 1 | Standard |
| Cl | 37 | | ug/L | | | 4052820 | 4224368 | 1 | Standard |
| > Sc | 45 | | ug/L | | | 457643 | 478303 | 0 | Standard |
| Cr | 52 | 111.340 | ug/L | 2.083 | 1 | 14350 | 1761595 | 1 | Standard |
| Cr | 53 | 111.929 | ug/L | 0.336 | 0 | 118 | 202789 | 0 | Standard |
| Mn | 55 | 34.206 | ug/L | 0.761 | 2 | 638 | 754244 | 1 | Standard |
| > Ge | 72 | | ug/L | | | 26593 | 26640 | 1 | KED |
| Ni | 60 | 0.874 | ug/L | 0.032 | 3 | 24 | 909 | 2 | KED |
| Ni | 62 | 0.978 | ug/L | 0.060 | 6 | 4 | 165 | 5 | KED |
| Cu | 63 | 0.974 | ug/L | 0.018 | 1 | 39 | 2912 | 2 | KED |
| Cu | 65 | 0.919 | ug/L | 0.046 | 4 | 28 | 1367 | 6 | KED |
| Zn | 66 | 42.992 | ug/L | 0.190 | 0 | 24 | 16085 | 0 | KED |
| Zn | 67 | 40.613 | ug/L | 2.313 | 5 | 3 | 2528 | 5 | KED |
| As | 75 | 0.113 | ug/L | 0.012 | 10 | 6 | 29 | 8 | KED |
| Se | 78 | -0.267 | ug/L | 0.195 | 72 | 20 | 15 | 29 | KED |
| Y | 89 | | ug/L | | | 265146 | 270683 | 1 | Standard |
| Kr | 83 | | ug/L | | | 48 | 35 | 8 | Standard |
| > In-1 | 115 | | ug/L | | | 7168 | 6910 | 9 | KED |
| Cd | 111 | 0.357 | ug/L | <u>0.063</u> | 17 | 3 | 77 | 23 | KED |
| Cd | 114 | 0.346 | ug/L | <u>0.045</u> | 13 | 3 | 176 | 14 | KED |
| > In | 115 | | ug/L | | | 374013 | 376962 | 1 | Standard |
| Ag | 107 | 0.072 | ug/L | 0.004 | 5 | 48 | 956 | 5 | Standard |
| Ba | 135 | 1.771 | ug/L | 0.067 | 3 | 24 | 5604 | 3 | Standard |
| Ba | 137 | 1.746 | ug/L | 0.021 | 1 | 29 | 9797 | 1 | Standard |
| > Tb | 159 | | ug/L | | | 624828 | 647254 | 2 | Standard |
| Pb | 208 | 0.073 | ug/L | 0.004 | 5 | 160 | 3097 | 4 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLC

Sample Dil Factor:

Comments:

Sample Date/Time: Saturday, April 08, 2023 00:45:16

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30779 | 31008 | 2 | Standard |
| Cl | 37 | | ug/L | | | 4052820 | 4236857 | 1 | Standard |
| [> Sc | 45 | | ug/L | | | 457643 | 452366 | 1 | Standard |
| Cr | 52 | -0.024 | ug/L | 0.019 | 79 | 14350 | 13820 | 0 | Standard |
| Cr | 53 | 0.006 | ug/L | 0.003 | 47 | 118 | 127 | 4 | Standard |
| Mn | 55 | 0.004 | ug/L | 0.001 | 27 | 638 | 712 | 1 | Standard |
| [> Ge | 72 | | ug/L | | | 26593 | 25995 | 3 | KED |
| Ni | 60 | -0.010 | ug/L | 0.008 | 88 | 24 | 14 | 52 | KED |
| Ni | 62 | 0.016 | ug/L | 0.029 | 183 | 4 | 6 | 68 | KED |
| Cu | 63 | 0.043 | ug/L | 0.001 | 2 | 39 | 161 | 4 | KED |
| Cu | 65 | 0.029 | ug/L | 0.005 | 17 | 28 | 69 | 6 | KED |
| Zn | 66 | 0.032 | ug/L | 0.033 | 101 | 24 | 35 | 36 | KED |
| Zn | 67 | 0.096 | ug/L | 0.054 | 56 | 3 | 9 | 34 | KED |
| As | 75 | -0.007 | ug/L | 0.003 | 41 | 6 | 5 | 13 | KED |
| Se | 78 | -0.223 | ug/L | 0.086 | 38 | 20 | 15 | 11 | KED |
| Y | 89 | | ug/L | | | 265146 | 254468 | 1 | Standard |
| Kr | 83 | | ug/L | | | 48 | 40 | 16 | Standard |
| [> In-1 | 115 | | ug/L | | | 7168 | 7328 | 1 | KED |
| Cd | 111 | 0.004 | ug/L | 0.005 | 111 | 3 | 4 | 20 | KED |
| Cd | 114 | 0.007 | ug/L | 0.008 | 107 | 3 | 6 | 57 | KED |
| [> In | 115 | | ug/L | | | 374013 | 367115 | 2 | Standard |
| Ag | 107 | -0.001 | ug/L | 0.000 | 45 | 48 | 34 | 15 | Standard |
| Ba | 135 | 0.007 | ug/L | 0.003 | 38 | 24 | 46 | 16 | Standard |
| Ba | 137 | 0.007 | ug/L | 0.003 | 45 | 29 | 68 | 24 | Standard |
| [> Tb | 159 | | ug/L | | | 624828 | 607684 | 0 | Standard |
| Pb | 208 | -0.001 | ug/L | 0.000 | 8 | 160 | 116 | 2 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVC

Sample Dil Factor:

Comments:

Sample Date/Time: Saturday, April 08, 2023 00:50:00

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30779 | 31553 | 1 | Standard |
| Cl | 37 | | ug/L | | | 4052820 | 4269216 | 1 | Standard |
| [> Sc | 45 | | ug/L | | | 457643 | 479915 | 2 | Standard |
| Cr | 52 | 50.731 | ug/L | 1.519 | 2 | 14350 | 813127 | 0 | Standard |
| Cr | 53 | 51.111 | ug/L | 1.979 | 3 | 118 | 92913 | 1 | Standard |
| Mn | 55 | 50.278 | ug/L | 1.263 | 2 | 638 | 1111728 | 1 | Standard |
| [> Ge | 72 | | ug/L | | | 26593 | 26886 | 0 | KED |
| Ni | 60 | 48.120 | ug/L | 1.115 | 2 | 24 | 49170 | 2 | KED |
| Ni | 62 | 50.051 | ug/L | 0.968 | 1 | 4 | 8337 | 2 | KED |
| Cu | 63 | 49.209 | ug/L | 0.216 | 0 | 39 | 146565 | 0 | KED |
| Cu | 65 | 49.394 | ug/L | 0.513 | 1 | 28 | 72650 | 0 | KED |
| Zn | 66 | 49.920 | ug/L | 0.667 | 1 | 24 | 18847 | 1 | KED |
| Zn | 67 | 50.881 | ug/L | 1.238 | 2 | 3 | 3196 | 2 | KED |
| As | 75 | 50.126 | ug/L | 0.530 | 1 | 6 | 9852 | 0 | KED |
| [Se | 78 | 47.968 | ug/L | 0.232 | 0 | 20 | 1078 | 0 | KED |
| Y | 89 | | ug/L | | | 265146 | 266397 | 0 | Standard |
| Kr | 83 | | ug/L | | | 48 | 46 | 6 | Standard |
| [> In-1 | 115 | | ug/L | | | 7168 | 7410 | 2 | KED |
| Cd | 111 | 51.210 | ug/L | 1.903 | 3 | 3 | 11204 | 1 | KED |
| Cd | 114 | 50.590 | ug/L | 1.962 | 3 | 3 | 27228 | 1 | KED |
| [> In | 115 | | ug/L | | | 374013 | 374814 | 2 | Standard |
| Ag | 107 | 52.193 | ug/L | 1.666 | 3 | 48 | 651904 | 2 | Standard |
| Ba | 135 | 51.680 | ug/L | 1.053 | 2 | 24 | 161901 | 0 | Standard |
| [Ba | 137 | 52.188 | ug/L | 1.475 | 2 | 29 | 290139 | 0 | Standard |
| [> Tb | 159 | | ug/L | | | 624828 | 648916 | 1 | Standard |
| [Pb | 208 | 50.710 | ug/L | 0.820 | 1 | 160 | 2038229 | 0 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBC

Sample Dil Factor:

Comments:

Sample Date/Time: Saturday, April 08, 2023 00:57:29

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30779 | 29764 | 4 | Standard |
| Cl | 37 | | ug/L | | | 4052820 | 4164987 | 1 | Standard |
| [> Sc | 45 | | ug/L | | | 457643 | 463595 | 3 | Standard |
| Cr | 52 | -0.044 | ug/L | 0.029 | 67 | 14350 | 13868 | 2 | Standard |
| Cr | 53 | 0.004 | ug/L | 0.006 | 142 | 118 | 127 | 9 | Standard |
| Mn | 55 | 0.004 | ug/L | 0.004 | 99 | 638 | 742 | 15 | Standard |
| [> Ge | 72 | | ug/L | | | 26593 | 26088 | 0 | KED |
| Ni | 60 | -0.008 | ug/L | 0.009 | 113 | 24 | 16 | 54 | KED |
| Ni | 62 | 0.000 | ug/L | 0.027 | 5646 | 4 | 4 | 98 | KED |
| Cu | 63 | 0.004 | ug/L | 0.005 | 104 | 39 | 51 | 25 | KED |
| Cu | 65 | -0.002 | ug/L | 0.003 | 151 | 28 | 25 | 15 | KED |
| Zn | 66 | -0.028 | ug/L | 0.014 | 48 | 24 | 13 | 37 | KED |
| Zn | 67 | 0.022 | ug/L | 0.048 | 217 | 3 | 5 | 57 | KED |
| As | 75 | -0.007 | ug/L | 0.006 | 94 | 6 | 5 | 21 | KED |
| Se | 78 | -0.078 | ug/L | 0.129 | 165 | 20 | 18 | 15 | KED |
| Y | 89 | | ug/L | | | 265146 | 262848 | 2 | Standard |
| Kr | 83 | | ug/L | | | 48 | 41 | 16 | Standard |
| [> In-1 | 115 | | ug/L | | | 7168 | 7392 | 3 | KED |
| Cd | 111 | -0.005 | ug/L | 0.015 | 293 | 3 | 2 | 115 | KED |
| Cd | 114 | -0.002 | ug/L | 0.004 | 142 | 3 | 1 | 104 | KED |
| [> In | 115 | | ug/L | | | 374013 | 365595 | 2 | Standard |
| Ag | 107 | 0.004 | ug/L | 0.006 | 141 | 48 | 97 | 73 | Standard |
| Ba | 135 | 0.004 | ug/L | 0.008 | 185 | 24 | 38 | 68 | Standard |
| Ba | 137 | 0.005 | ug/L | 0.006 | 128 | 29 | 54 | 61 | Standard |
| [> Tb | 159 | | ug/L | | | 624828 | 624641 | 2 | Standard |
| Pb | 208 | 0.002 | ug/L | 0.007 | 336 | 160 | 239 | 110 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23C0591-01RE1**

Sample Dil Factor: **50**

Comments:

Sample Date/Time: **Saturday, April 08, 2023 01:02:13**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|---------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30779 | 33504 | 2 | Standard |
| Cl | 37 | | ug/L | | | 4052820 | 4246839 | 1 | Standard |
| [> Sc | 45 | | ug/L | | | 457643 | 475064 | 1 | Standard |
| Cr | 52 | -0.033 | ug/L | 0.022 | 65 | 14350 | 14377 | 0 | Standard |
| Cr | 53 | 0.014 | ug/L | 0.006 | 44 | 118 | 148 | 5 | Standard |
| Mn | 55 | 36.397 | ug/L | 1.153 | 3 | 638 | 796969 | 2 | Standard |
| [> Ge | 72 | | ug/L | | | 26593 | 27207 | 2 | KED |
| Ni | 60 | 0.060 | ug/L | 0.008 | 12 | 24 | 87 | 7 | KED |
| Ni | 62 | 0.090 | ug/L | 0.007 | 7 | 4 | 19 | 5 | KED |
| Cu | 63 | 0.026 | ug/L | 0.001 | 2 | 39 | 118 | 2 | KED |
| Cu | 65 | 0.019 | ug/L | 0.011 | 56 | 28 | 57 | 26 | KED |
| Zn | 66 | 0.468 | ug/L | 0.022 | 4 | 24 | 203 | 6 | KED |
| Zn | 67 | 0.648 | ug/L | 0.146 | 22 | 3 | 45 | 21 | KED |
| As | 75 | 0.076 | ug/L | 0.033 | 43 | 6 | 22 | 30 | KED |
| Se | 78 | -0.339 | ug/L | 0.090 | 26 | 20 | 13 | 15 | KED |
| Y | 89 | | ug/L | | | 265146 | 265351 | 2 | Standard |
| Kr | 83 | | ug/L | | | 48 | 51 | 22 | Standard |
| [> In-1 | 115 | | ug/L | | | 7168 | 7404 | 1 | KED |
| Cd | 111 | 0.010 | ug/L | 0.011 | 115 | 3 | 6 | 39 | KED |
| Cd | 114 | 0.002 | ug/L | 0.004 | 195 | 3 | 4 | 51 | KED |
| [> In | 115 | | ug/L | | | 374013 | 374859 | 0 | Standard |
| Ag | 107 | -0.000 | ug/L | 0.001 | 9691 | 48 | 48 | 19 | Standard |
| Ba | 135 | 0.891 | ug/L | 0.011 | 1 | 24 | 2817 | 1 | Standard |
| Ba | 137 | 0.905 | ug/L | 0.007 | 0 | 29 | 5063 | 1 | Standard |
| [> Tb | 159 | | ug/L | | | 624828 | 639992 | 0 | Standard |
| Pb | 208 | 0.016 | ug/L | 0.001 | 7 | 160 | 785 | 5 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23C0527-06**

Sample Dil Factor: **2**

Comments:

Sample Date/Time: **Saturday, April 08, 2023 01:06:51**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30779 | 55134 | 0 | Standard |
| Cl | 37 | | ug/L | | | 4052820 | 5044425 | 2 | Standard |
| Sc | 45 | | ug/L | | | 457643 | 819671 | 1 | Standard |
| Cr | 52 | -0.095 | ug/L | 0.016 | 16 | 14350 | 23146 | 1 | Standard |
| Cr | 53 | 0.668 | ug/L | 0.037 | 5 | 118 | 2284 | 3 | Standard |
| Mn | 55 | 6328.789 | ug/L | 82.640 | 1 | 638 | 238956197 | 1 | Standard |
| Ge | 72 | | ug/L | | | 26593 | 24272 | 1 | KED |
| Ni | 60 | 36.923 | ug/L | 0.408 | 1 | 24 | 34062 | 1 | KED |
| Ni | 62 | 37.551 | ug/L | 0.817 | 2 | 4 | 5647 | 1 | KED |
| Cu | 63 | 1.899 | ug/L | 0.085 | 4 | 39 | 5141 | 5 | KED |
| Cu | 65 | 1.961 | ug/L | 0.046 | 2 | 28 | 2628 | 1 | KED |
| Zn | 66 | 2.013 | ug/L | 0.036 | 1 | 24 | 707 | 1 | KED |
| Zn | 67 | 4.940 | ug/L | 0.367 | 7 | 3 | 283 | 6 | KED |
| As | 75 | 4.810 | ug/L | 0.077 | 1 | 6 | 859 | 2 | KED |
| Se | 78 | -0.047 | ug/L | 0.201 | 425 | 20 | 18 | 21 | KED |
| Y | 89 | | ug/L | | | 265146 | 290034 | 3 | Standard |
| Kr | 83 | | ug/L | | | 48 | 76 | 12 | Standard |
| In-1 | 115 | | ug/L | | | 7168 | 6694 | 0 | KED |
| Cd | 111 | 0.138 | ug/L | 0.025 | 18 | 3 | 30 | 15 | KED |
| Cd | 114 | 0.119 | ug/L | 0.016 | 13 | 3 | 60 | 12 | KED |
| In | 115 | | ug/L | | | 374013 | 351203 | 1 | Standard |
| Ag | 107 | 0.002 | ug/L | 0.000 | 25 | 48 | 64 | 7 | Standard |
| Ba | 135 | 43.523 | ug/L | 0.458 | 1 | 24 | 127787 | 1 | Standard |
| Ba | 137 | 43.970 | ug/L | 0.547 | 1 | 29 | 229144 | 1 | Standard |
| Tb | 159 | | ug/L | | | 624828 | 631825 | 0 | Standard |
| Pb | 208 | 0.014 | ug/L | 0.000 | 1 | 160 | 709 | 1 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23C0527-02**

Sample Dil Factor:

Comments:

Sample Date/Time: **Saturday, April 08, 2023 01:11:35**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30779 | 45765 | 1 | Standard |
| Cl | 37 | | ug/L | | | 4052820 | 4876344 | 1 | Standard |
| > Sc | 45 | | ug/L | | | 457643 | 851039 | 1 | Standard |
| Cr | 52 | 5.499 | ug/L | 0.045 | 0 | 14350 | 180185 | 1 | Standard |
| Cr | 53 | 7.089 | ug/L | 0.037 | 0 | 118 | 23059 | 1 | Standard |
| Mn | 55 | 3.281 | ug/L | 0.037 | 1 | 638 | 129801 | 1 | Standard |
| > Ge | 72 | | ug/L | | | 26593 | 26310 | 1 | KED |
| Ni | 60 | 7.678 | ug/L | 0.116 | 1 | 24 | 7698 | 2 | KED |
| Ni | 62 | 8.100 | ug/L | 0.428 | 5 | 4 | 1323 | 4 | KED |
| Cu | 63 | 0.238 | ug/L | 0.008 | 3 | 39 | 733 | 3 | KED |
| Cu | 65 | 0.228 | ug/L | 0.011 | 4 | 28 | 355 | 3 | KED |
| Zn | 66 | 6.091 | ug/L | 0.193 | 3 | 24 | 2270 | 2 | KED |
| Zn | 67 | 7.673 | ug/L | 0.568 | 7 | 3 | 474 | 7 | KED |
| As | 75 | 0.516 | ug/L | 0.006 | 1 | 6 | 106 | 1 | KED |
| Se | 78 | -0.022 | ug/L | 0.124 | 577 | 20 | 20 | 14 | KED |
| Y | 89 | | ug/L | | | 265146 | 289546 | 2 | Standard |
| Kr | 83 | | ug/L | | | 48 | 46 | 23 | Standard |
| > In-1 | 115 | | ug/L | | | 7168 | 7306 | 2 | KED |
| Cd | 111 | 0.031 | ug/L | 0.008 | 26 | 3 | 10 | 15 | KED |
| Cd | 114 | 0.033 | ug/L | 0.007 | 22 | 3 | 20 | 17 | KED |
| > In | 115 | | ug/L | | | 374013 | 371366 | 0 | Standard |
| Ag | 107 | 0.004 | ug/L | 0.001 | 28 | 48 | 96 | 13 | Standard |
| Ba | 135 | 22.307 | ug/L | 0.904 | 4 | 24 | 69262 | 3 | Standard |
| Ba | 137 | 22.064 | ug/L | 0.304 | 1 | 29 | 121598 | 0 | Standard |
| > Tb | 159 | | ug/L | | | 624828 | 653381 | 2 | Standard |
| Pb | 208 | 0.028 | ug/L | 0.002 | 6 | 160 | 1285 | 3 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23C0527-04**

Sample Dil Factor:

Comments:

Sample Date/Time: **Saturday, April 08, 2023 01:16:18**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30779 | 73187 | 1 | Standard |
| Cl | 37 | | ug/L | | | 4052820 | 4299665 | 2 | Standard |
| > Sc | 45 | | ug/L | | | 457643 | 757329 | 0 | Standard |
| Cr | 52 | 1.135 | ug/L | 0.024 | 2 | 14350 | 51935 | 0 | Standard |
| Cr | 53 | 1.472 | ug/L | 0.014 | 0 | 118 | 4417 | 0 | Standard |
| Mn | 55 | 28447.966 | ug/L | 782.508 | 2 | 638 | 992483980 | 3 | Standard |
| > Ge | 72 | | ug/L | | | 26593 | 20969 | 1 | KED |
| Ni | 60 | 34.005 | ug/L | 1.073 | 3 | 24 | 27098 | 2 | KED |
| Ni | 62 | 34.232 | ug/L | 1.626 | 4 | 4 | 4447 | 3 | KED |
| Cu | 63 | 4.089 | ug/L | 0.007 | 0 | 39 | 9527 | 1 | KED |
| Cu | 65 | 4.029 | ug/L | 0.132 | 3 | 28 | 4642 | 2 | KED |
| Zn | 66 | 7.765 | ug/L | 0.172 | 2 | 24 | 2302 | 2 | KED |
| Zn | 67 | 11.763 | ug/L | 0.481 | 4 | 3 | 578 | 2 | KED |
| As | 75 | 0.573 | ug/L | 0.012 | 2 | 6 | 93 | 0 | KED |
| Se | 78 | 0.312 | ug/L | 0.240 | 77 | 20 | 21 | 18 | KED |
| Y | 89 | | ug/L | | | 265146 | 395529 | 2 | Standard |
| Kr | 83 | | ug/L | | | 48 | 84 | 5 | Standard |
| > In-1 | 115 | | ug/L | | | 7168 | 6262 | 2 | KED |
| Cd | 111 | 0.489 | ug/L | 0.030 | 6 | 3 | 93 | 3 | KED |
| Cd | 114 | 0.413 | ug/L | 0.053 | 12 | 3 | 190 | 11 | KED |
| > In | 115 | | ug/L | | | 374013 | 317527 | 1 | Standard |
| Ag | 107 | 0.006 | ug/L | 0.001 | 14 | 48 | 108 | 7 | Standard |
| Ba | 135 | 103.669 | ug/L | 2.622 | 2 | 24 | 275116 | 1 | Standard |
| Ba | 137 | 101.715 | ug/L | 2.050 | 2 | 29 | 479128 | 0 | Standard |
| > Tb | 159 | | ug/L | | | 624828 | 589884 | 0 | Standard |
| Pb | 208 | 0.045 | ug/L | 0.000 | 1 | 160 | 1781 | 1 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23C0527-08**

Sample Dil Factor:

Comments:

Sample Date/Time: **Saturday, April 08, 2023 01:20:56**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30779 | 67071 | 0 | Standard |
| Cl | 37 | | ug/L | | | 4052820 | 4523889 | 1 | Standard |
| Sc | 45 | | ug/L | | | 457643 | 974889 | 1 | Standard |
| Cr | 52 | -0.073 | ug/L | 0.015 | 20 | 14350 | 28236 | 0 | Standard |
| Cr | 53 | 0.551 | ug/L | 0.022 | 4 | 118 | 2284 | 2 | Standard |
| Mn | 55 | 1374.606 | ug/L | 21.900 | 1 | 638 | 61724706 | 0 | Standard |
| Ge | 72 | | ug/L | | | 26593 | 24472 | 2 | KED |
| Ni | 60 | 55.596 | ug/L | 2.359 | 4 | 24 | 51667 | 2 | KED |
| Ni | 62 | 55.630 | ug/L | 2.864 | 5 | 4 | 8427 | 3 | KED |
| Cu | 63 | 4.858 | ug/L | 0.086 | 1 | 39 | 13202 | 2 | KED |
| Cu | 65 | 4.797 | ug/L | 0.258 | 5 | 28 | 6440 | 3 | KED |
| Zn | 66 | 3.940 | ug/L | 0.074 | 1 | 24 | 1374 | 4 | KED |
| Zn | 67 | 8.851 | ug/L | 0.467 | 5 | 3 | 508 | 2 | KED |
| As | 75 | 1.100 | ug/L | 0.080 | 7 | 6 | 202 | 5 | KED |
| Se | 78 | 0.137 | ug/L | 0.179 | 130 | 20 | 21 | 14 | KED |
| Y | 89 | | ug/L | | | 265146 | 294772 | 1 | Standard |
| Kr | 83 | | ug/L | | | 48 | 66 | 2 | Standard |
| In-1 | 115 | | ug/L | | | 7168 | 6774 | 0 | KED |
| Cd | 111 | 0.065 | ug/L | 0.028 | 43 | 3 | 16 | 33 | KED |
| Cd | 114 | 0.090 | ug/L | 0.020 | 22 | 3 | 47 | 21 | KED |
| In | 115 | | ug/L | | | 374013 | 358286 | 1 | Standard |
| Ag | 107 | 0.004 | ug/L | 0.001 | 11 | 48 | 99 | 7 | Standard |
| Ba | 135 | 79.457 | ug/L | 0.473 | 0 | 24 | 238001 | 1 | Standard |
| Ba | 137 | 79.593 | ug/L | 0.110 | 0 | 29 | 423145 | 0 | Standard |
| Tb | 159 | | ug/L | | | 624828 | 639096 | 0 | Standard |
| Pb | 208 | 0.084 | ug/L | 0.001 | 1 | 160 | 3500 | 1 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23C0527-10**

Sample Dil Factor:

Comments:

Sample Date/Time: **Saturday, April 08, 2023 01:25:34**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30779 | 46862 | 4 | Standard |
| Cl | 37 | | ug/L | | | 4052820 | 4572665 | 1 | Standard |
| Sc | 45 | | ug/L | | | 457643 | 915248 | 0 | Standard |
| Cr | 52 | -0.135 | ug/L | 0.018 | 13 | 14350 | 24652 | 1 | Standard |
| Cr | 53 | 0.667 | ug/L | 0.013 | 1 | 118 | 2547 | 1 | Standard |
| Mn | 55 | 6229.371 | ug/L | 129.112 | 2 | 638 | 262614055 | 1 | Standard |
| Ge | 72 | | ug/L | | | 26593 | 25312 | 2 | KED |
| Ni | 60 | 8.557 | ug/L | 0.473 | 5 | 24 | 8243 | 2 | KED |
| Ni | 62 | 8.645 | ug/L | 0.494 | 5 | 4 | 1358 | 3 | KED |
| Cu | 63 | 0.432 | ug/L | 0.007 | 1 | 39 | 1248 | 4 | KED |
| Cu | 65 | 0.418 | ug/L | 0.007 | 1 | 28 | 606 | 2 | KED |
| Zn | 66 | 2.917 | ug/L | 0.125 | 4 | 24 | 1059 | 6 | KED |
| Zn | 67 | 4.286 | ug/L | 0.402 | 9 | 3 | 256 | 7 | KED |
| As | 75 | 3.637 | ug/L | 0.076 | 2 | 6 | 678 | 0 | KED |
| Se | 78 | -0.160 | ug/L | 0.028 | 17 | 20 | 16 | 1 | KED |
| Y | 89 | | ug/L | | | 265146 | 293842 | 4 | Standard |
| Kr | 83 | | ug/L | | | 48 | 60 | 6 | Standard |
| In-1 | 115 | | ug/L | | | 7168 | 7242 | 3 | KED |
| Cd | 111 | 0.012 | ug/L | 0.007 | 56 | 3 | 6 | 22 | KED |
| Cd | 114 | 0.016 | ug/L | 0.007 | 42 | 3 | 11 | 30 | KED |
| In | 115 | | ug/L | | | 374013 | 369140 | 0 | Standard |
| Ag | 107 | 0.004 | ug/L | 0.000 | 11 | 48 | 99 | 5 | Standard |
| Ba | 135 | 20.368 | ug/L | 0.117 | 0 | 24 | 62873 | 0 | Standard |
| Ba | 137 | 19.781 | ug/L | 0.306 | 1 | 29 | 108372 | 1 | Standard |
| Tb | 159 | | ug/L | | | 624828 | 662772 | 0 | Standard |
| Pb | 208 | 0.021 | ug/L | 0.001 | 6 | 160 | 1029 | 5 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23C0527-12**

Sample Dil Factor:

Comments:

Sample Date/Time: **Saturday, April 08, 2023 01:30:12**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30779 | 70795 | 3 | Standard |
| Cl | 37 | | ug/L | | | 4052820 | 4259951 | 0 | Standard |
| Sc | 45 | | ug/L | | | 457643 | 742003 | 1 | Standard |
| Cr | 52 | 0.889 | ug/L | 0.001 | 0 | 14350 | 44892 | 1 | Standard |
| Cr | 53 | 1.226 | ug/L | 0.039 | 3 | 118 | 3636 | 1 | Standard |
| Mn | 55 | 28806.114 | ug/L | 357.786 | 1 | 638 | 984467528 | 0 | Standard |
| Ge | 72 | | ug/L | | | 26593 | 20642 | 1 | KED |
| Ni | 60 | 34.822 | ug/L | 0.296 | 0 | 24 | 27321 | 1 | KED |
| Ni | 62 | 35.907 | ug/L | 0.628 | 1 | 4 | 4593 | 2 | KED |
| Cu | 63 | 4.328 | ug/L | 0.104 | 2 | 39 | 9922 | 1 | KED |
| Cu | 65 | 4.336 | ug/L | 0.191 | 4 | 28 | 4915 | 3 | KED |
| Zn | 66 | 7.525 | ug/L | 0.265 | 3 | 24 | 2196 | 3 | KED |
| Zn | 67 | 13.002 | ug/L | 0.225 | 1 | 3 | 629 | 1 | KED |
| As | 75 | 0.548 | ug/L | 0.055 | 9 | 6 | 88 | 10 | KED |
| Se | 78 | 0.223 | ug/L | 0.271 | 121 | 20 | 20 | 23 | KED |
| Y | 89 | | ug/L | | | 265146 | 393924 | 2 | Standard |
| Kr | 83 | | ug/L | | | 48 | 91 | 11 | Standard |
| In-1 | 115 | | ug/L | | | 7168 | 6222 | 1 | KED |
| Cd | 111 | 0.495 | ug/L | 0.013 | 2 | 3 | 94 | 2 | KED |
| Cd | 114 | 0.437 | ug/L | 0.035 | 8 | 3 | 199 | 6 | KED |
| In | 115 | | ug/L | | | 374013 | 321338 | 1 | Standard |
| Ag | 107 | 0.007 | ug/L | 0.003 | 43 | 48 | 111 | 27 | Standard |
| Ba | 135 | 101.063 | ug/L | 2.359 | 2 | 24 | 271428 | 0 | Standard |
| Ba | 137 | 101.590 | ug/L | 1.717 | 1 | 29 | 484304 | 0 | Standard |
| Tb | 159 | | ug/L | | | 624828 | 589661 | 0 | Standard |
| Pb | 208 | 0.049 | ug/L | 0.001 | 2 | 160 | 1941 | 2 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **BLD0094-DUP1**

Sample Dil Factor:

Comments:

Sample Date/Time: **Saturday, April 08, 2023 01:35:20**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30779 | 73060 | 1 | Standard |
| Cl | 37 | | ug/L | | | 4052820 | 4273144 | 1 | Standard |
| Sc | 45 | | ug/L | | | 457643 | 756930 | 1 | Standard |
| Cr | 52 | 0.897 | ug/L | 0.034 | 3 | 14350 | 45999 | 0 | Standard |
| Cr | 53 | 1.210 | ug/L | 0.042 | 3 | 118 | 3661 | 2 | Standard |
| Mn | 55 | 28930.101 | ug/L | 463.937 | 1 | 638 | 1008573660 | 0 | Standard |
| Ge | 72 | | ug/L | | | 26593 | 20288 | 0 | KED |
| Ni | 60 | 34.628 | ug/L | 0.186 | 0 | 24 | 26704 | 0 | KED |
| Ni | 62 | 35.011 | ug/L | 0.940 | 2 | 4 | 4401 | 2 | KED |
| Cu | 63 | 4.946 | ug/L | 0.047 | 0 | 39 | 11142 | 1 | KED |
| Cu | 65 | 4.903 | ug/L | 0.118 | 2 | 28 | 5461 | 2 | KED |
| Zn | 66 | 6.666 | ug/L | 0.299 | 4 | 24 | 1915 | 4 | KED |
| Zn | 67 | 10.868 | ug/L | 1.415 | 13 | 3 | 517 | 12 | KED |
| As | 75 | 0.678 | ug/L | 0.039 | 5 | 6 | 105 | 5 | KED |
| Se | 78 | 0.591 | ug/L | 0.174 | 29 | 20 | 25 | 11 | KED |
| Y | 89 | | ug/L | | | 265146 | 405872 | 0 | Standard |
| Kr | 83 | | ug/L | | | 48 | 106 | 9 | Standard |
| In-1 | 115 | | ug/L | | | 7168 | 6101 | 2 | KED |
| Cd | 111 | 0.533 | ug/L | 0.046 | 8 | 3 | 99 | 9 | KED |
| Cd | 114 | 0.446 | ug/L | 0.039 | 8 | 3 | 200 | 10 | KED |
| In | 115 | | ug/L | | | 374013 | 319772 | 1 | Standard |
| Ag | 107 | 0.013 | ug/L | 0.001 | 11 | 48 | 181 | 8 | Standard |
| Ba | 135 | 101.662 | ug/L | 1.266 | 1 | 24 | 271754 | 0 | Standard |
| Ba | 137 | 101.324 | ug/L | 2.499 | 2 | 29 | 480699 | 1 | Standard |
| Tb | 159 | | ug/L | | | 624828 | 589061 | 0 | Standard |
| Pb | 208 | 0.057 | ug/L | 0.002 | 3 | 160 | 2214 | 2 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **BLD0094-MS1**

Sample Dil Factor:

Comments:

Sample Date/Time: **Saturday, April 08, 2023 01:41:28**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30779 | 71460 | 1 | Standard |
| Cl | 37 | | ug/L | | | 4052820 | 4263838 | 1 | Standard |
| Sc | 45 | | ug/L | | | 457643 | 773381 | 1 | Standard |
| Cr | 52 | 16.723 | ug/L | 0.236 | 1 | 14350 | 448389 | 0 | Standard |
| Cr | 53 | 16.941 | ug/L | 0.344 | 2 | 118 | 49791 | 1 | Standard |
| Mn | 55 | 28170.447 | ug/L | 610.407 | 2 | 638 | 1003461438 | 1 | Standard |
| Ge | 72 | | ug/L | | | 26593 | 19903 | 1 | KED |
| Ni | 60 | 60.364 | ug/L | 0.143 | 0 | 24 | 45652 | 0 | KED |
| Ni | 62 | 61.486 | ug/L | 0.989 | 1 | 4 | 7581 | 1 | KED |
| Cu | 63 | 29.131 | ug/L | 0.862 | 2 | 39 | 64225 | 1 | KED |
| Cu | 65 | 29.149 | ug/L | 0.626 | 2 | 28 | 31743 | 1 | KED |
| Zn | 66 | 70.606 | ug/L | 0.566 | 0 | 24 | 19724 | 0 | KED |
| Zn | 67 | 69.850 | ug/L | 2.000 | 2 | 3 | 3246 | 2 | KED |
| As | 75 | 23.655 | ug/L | 0.558 | 2 | 6 | 3444 | 1 | KED |
| Se | 78 | 61.657 | ug/L | 1.471 | 2 | 20 | 1021 | 1 | KED |
| Y | 89 | | ug/L | | | 265146 | 403944 | 3 | Standard |
| Kr | 83 | | ug/L | | | 48 | 93 | 22 | Standard |
| In-1 | 115 | | ug/L | | | 7168 | 5903 | 4 | KED |
| Cd | 111 | 22.063 | ug/L | 0.591 | 2 | 3 | 3847 | 2 | KED |
| Cd | 114 | 21.653 | ug/L | 0.713 | 3 | 3 | 9284 | 1 | KED |
| In | 115 | | ug/L | | | 374013 | 314008 | 1 | Standard |
| Ag | 107 | 18.937 | ug/L | 0.059 | 0 | 48 | 198228 | 1 | Standard |
| Ba | 135 | 130.147 | ug/L | 1.731 | 1 | 24 | 341621 | 1 | Standard |
| Ba | 137 | 128.662 | ug/L | 2.390 | 1 | 29 | 599352 | 0 | Standard |
| Tb | 159 | | ug/L | | | 624828 | 588412 | 1 | Standard |
| Pb | 208 | 25.131 | ug/L | 0.285 | 1 | 160 | 916076 | 0 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLD

Sample Dil Factor:

Comments:

Sample Date/Time: Saturday, April 08, 2023 01:46:07

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30779 | 33219 | 3 | Standard |
| Cl | 37 | | ug/L | | | 4052820 | 4390119 | 0 | Standard |
| [> Sc | 45 | | ug/L | | | 457643 | 475202 | 0 | Standard |
| Cr | 52 | 0.005 | ug/L | 0.011 | 237 | 14350 | 14973 | 1 | Standard |
| Cr | 53 | 0.029 | ug/L | 0.008 | 26 | 118 | 175 | 8 | Standard |
| Mn | 55 | 0.857 | ug/L | 0.113 | 13 | 638 | 19407 | 12 | Standard |
| [> Ge | 72 | | ug/L | | | 26593 | 25856 | 0 | KED |
| Ni | 60 | -0.014 | ug/L | 0.002 | 15 | 24 | 10 | 21 | KED |
| Ni | 62 | 0.005 | ug/L | 0.018 | 384 | 4 | 5 | 57 | KED |
| Cu | 63 | 0.037 | ug/L | 0.001 | 1 | 39 | 144 | 1 | KED |
| Cu | 65 | 0.034 | ug/L | 0.009 | 27 | 28 | 75 | 17 | KED |
| Zn | 66 | 0.089 | ug/L | 0.039 | 43 | 24 | 55 | 25 | KED |
| Zn | 67 | 0.096 | ug/L | 0.032 | 32 | 3 | 9 | 20 | KED |
| As | 75 | -0.005 | ug/L | 0.005 | 106 | 6 | 5 | 16 | KED |
| Se | 78 | -0.274 | ug/L | 0.066 | 24 | 20 | 14 | 9 | KED |
| Y | 89 | | ug/L | | | 265146 | 271170 | 0 | Standard |
| Kr | 83 | | ug/L | | | 48 | 36 | 20 | Standard |
| [> In-1 | 115 | | ug/L | | | 7168 | 6980 | 3 | KED |
| Cd | 111 | 0.078 | ug/L | 0.106 | 135 | 3 | 20 | 112 | KED |
| Cd | 114 | 0.060 | ug/L | 0.081 | 135 | 3 | 34 | 125 | KED |
| [> In | 115 | | ug/L | | | 374013 | 371570 | 3 | Standard |
| Ag | 107 | 0.030 | ug/L | 0.002 | 7 | 48 | 419 | 4 | Standard |
| Ba | 135 | 0.009 | ug/L | 0.002 | 26 | 24 | 52 | 11 | Standard |
| Ba | 137 | 0.012 | ug/L | 0.005 | 36 | 29 | 97 | 24 | Standard |
| [> Tb | 159 | | ug/L | | | 624828 | 633669 | 0 | Standard |
| Pb | 208 | -0.000 | ug/L | 0.000 | 128 | 160 | 157 | 4 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVD

Sample Dil Factor:

Comments:

Sample Date/Time: Saturday, April 08, 2023 01:50:52

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30779 | 33795 | 2 | Standard |
| Cl | 37 | | ug/L | | | 4052820 | 4289967 | 2 | Standard |
| [> Sc | 45 | | ug/L | | | 457643 | 492079 | 2 | Standard |
| Cr | 52 | 52.470 | ug/L | 1.655 | 3 | 14350 | 861942 | 1 | Standard |
| Cr | 53 | 52.538 | ug/L | 0.329 | 0 | 118 | 97987 | 1 | Standard |
| Mn | 55 | 52.631 | ug/L | 0.657 | 1 | 638 | 1193584 | 2 | Standard |
| [> Ge | 72 | | ug/L | | | 26593 | 26446 | 2 | KED |
| Ni | 60 | 49.057 | ug/L | 0.947 | 1 | 24 | 49296 | 2 | KED |
| Ni | 62 | 48.967 | ug/L | 1.962 | 4 | 4 | 8018 | 1 | KED |
| Cu | 63 | 49.286 | ug/L | 0.827 | 1 | 39 | 144393 | 2 | KED |
| Cu | 65 | 50.437 | ug/L | 0.844 | 1 | 28 | 72955 | 0 | KED |
| Zn | 66 | 50.274 | ug/L | 0.604 | 1 | 24 | 18667 | 1 | KED |
| Zn | 67 | 49.520 | ug/L | 1.877 | 3 | 3 | 3058 | 2 | KED |
| As | 75 | 49.424 | ug/L | 1.092 | 2 | 6 | 9553 | 0 | KED |
| [Se | 78 | 47.304 | ug/L | 0.515 | 1 | 20 | 1046 | 1 | KED |
| Y | 89 | | ug/L | | | 265146 | 281638 | 1 | Standard |
| Kr | 83 | | ug/L | | | 48 | 48 | 23 | Standard |
| [> In-1 | 115 | | ug/L | | | 7168 | 7087 | 3 | KED |
| Cd | 111 | 50.882 | ug/L | 1.523 | 2 | 3 | 10647 | 0 | KED |
| Cd | 114 | 50.358 | ug/L | 2.294 | 4 | 3 | 25915 | 1 | KED |
| [> In | 115 | | ug/L | | | 374013 | 370898 | 1 | Standard |
| Ag | 107 | 51.112 | ug/L | 0.786 | 1 | 48 | 631959 | 2 | Standard |
| Ba | 135 | 52.004 | ug/L | 0.507 | 0 | 24 | 161245 | 0 | Standard |
| [Ba | 137 | 51.971 | ug/L | 0.303 | 0 | 29 | 286036 | 1 | Standard |
| [> Tb | 159 | | ug/L | | | 624828 | 654781 | 0 | Standard |
| [Pb | 208 | 52.560 | ug/L | 0.648 | 1 | 160 | 2131895 | 0 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBD

Sample Dil Factor:

Comments:

Sample Date/Time: Saturday, April 08, 2023 01:58:20

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30779 | 31628 | 0 | Standard |
| Cl | 37 | | ug/L | | | 4052820 | 4193580 | 3 | Standard |
| [> Sc | 45 | | ug/L | | | 457643 | 481189 | 1 | Standard |
| Cr | 52 | -0.036 | ug/L | 0.032 | 88 | 14350 | 14508 | 2 | Standard |
| Cr | 53 | 0.000 | ug/L | 0.007 | 3519 | 118 | 125 | 9 | Standard |
| Mn | 55 | 0.192 | ug/L | 0.010 | 5 | 638 | 4926 | 3 | Standard |
| [> Ge | 72 | | ug/L | | | 26593 | 25850 | 1 | KED |
| Ni | 60 | -0.021 | ug/L | 0.002 | 9 | 24 | 3 | 50 | KED |
| Ni | 62 | 0.001 | ug/L | 0.007 | 886 | 4 | 4 | 24 | KED |
| Cu | 63 | 0.003 | ug/L | 0.002 | 67 | 39 | 46 | 12 | KED |
| Cu | 65 | -0.004 | ug/L | 0.002 | 53 | 28 | 21 | 13 | KED |
| Zn | 66 | -0.002 | ug/L | 0.018 | 1055 | 24 | 22 | 28 | KED |
| Zn | 67 | 0.002 | ug/L | 0.033 | 1590 | 3 | 3 | 50 | KED |
| As | 75 | -0.011 | ug/L | 0.005 | 47 | 6 | 4 | 20 | KED |
| Se | 78 | -0.192 | ug/L | 0.188 | 97 | 20 | 16 | 25 | KED |
| Y | 89 | | ug/L | | | 265146 | 264466 | 0 | Standard |
| Kr | 83 | | ug/L | | | 48 | 46 | 9 | Standard |
| [> In-1 | 115 | | ug/L | | | 7168 | 6895 | 0 | KED |
| Cd | 111 | 0.004 | ug/L | 0.007 | 187 | 3 | 4 | 32 | KED |
| Cd | 114 | -0.001 | ug/L | 0.002 | 186 | 3 | 2 | 47 | KED |
| [> In | 115 | | ug/L | | | 374013 | 369240 | 1 | Standard |
| Ag | 107 | 0.036 | ug/L | 0.001 | 2 | 48 | 490 | 3 | Standard |
| Ba | 135 | -0.001 | ug/L | 0.001 | 78 | 24 | 21 | 10 | Standard |
| Ba | 137 | -0.001 | ug/L | 0.001 | 166 | 29 | 26 | 22 | Standard |
| [> Tb | 159 | | ug/L | | | 624828 | 640435 | 0 | Standard |
| Pb | 208 | -0.002 | ug/L | 0.000 | 12 | 160 | 100 | 8 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23C0530-01**

Sample Dil Factor: **2**

Comments:

Sample Date/Time: **Saturday, April 08, 2023 02:03:05**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|---------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30779 | 47934 | 0 | Standard |
| Cl | 37 | | ug/L | | | 4052820 | 4036891 | 0 | Standard |
| > Sc | 45 | | ug/L | | | 457643 | 542093 | 2 | Standard |
| Cr | 52 | 1.038 | ug/L | 0.039 | 3 | 14350 | 35453 | 3 | Standard |
| Cr | 53 | 1.257 | ug/L | 0.036 | 2 | 118 | 2720 | 2 | Standard |
| Mn | 55 | 32.316 | ug/L | 0.476 | 1 | 638 | 807554 | 0 | Standard |
| > Ge | 72 | | ug/L | | | 26593 | 26501 | 1 | KED |
| Ni | 60 | 1.237 | ug/L | 0.021 | 1 | 24 | 1269 | 1 | KED |
| Ni | 62 | 1.312 | ug/L | 0.059 | 4 | 4 | 219 | 2 | KED |
| Cu | 63 | 1.584 | ug/L | 0.041 | 2 | 39 | 4685 | 1 | KED |
| Cu | 65 | 1.588 | ug/L | 0.046 | 2 | 28 | 2329 | 1 | KED |
| Zn | 66 | 3.259 | ug/L | 0.068 | 2 | 24 | 1235 | 3 | KED |
| Zn | 67 | 3.408 | ug/L | 0.064 | 1 | 3 | 214 | 3 | KED |
| As | 75 | 0.148 | ug/L | 0.035 | 23 | 6 | 35 | 17 | KED |
| Se | 78 | -0.199 | ug/L | 0.037 | 18 | 20 | 16 | 6 | KED |
| Y | 89 | | ug/L | | | 265146 | 309394 | 2 | Standard |
| Kr | 83 | | ug/L | | | 48 | 48 | 2 | Standard |
| > In-1 | 115 | | ug/L | | | 7168 | 7216 | 0 | KED |
| Cd | 111 | 0.004 | ug/L | 0.005 | 104 | 3 | 4 | 20 | KED |
| Cd | 114 | 0.016 | ug/L | 0.012 | 72 | 3 | 11 | 52 | KED |
| > In | 115 | | ug/L | | | 374013 | 379127 | 1 | Standard |
| Ag | 107 | 0.038 | ug/L | 0.005 | 12 | 48 | 524 | 12 | Standard |
| Ba | 135 | 6.542 | ug/L | 0.074 | 1 | 24 | 20758 | 1 | Standard |
| Ba | 137 | 6.388 | ug/L | 0.119 | 1 | 29 | 35961 | 1 | Standard |
| > Tb | 159 | | ug/L | | | 624828 | 671980 | 1 | Standard |
| Pb | 208 | 4.665 | ug/L | 0.126 | 2 | 160 | 194303 | 1 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23C0530-02**

Sample Dil Factor: **2**

Comments:

Sample Date/Time: **Saturday, April 08, 2023 02:07:49**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|---------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30779 | 42297 | 0 | Standard |
| Cl | 37 | | ug/L | | | 4052820 | 4011806 | 2 | Standard |
| [> Sc | 45 | | ug/L | | | 457643 | 547268 | 0 | Standard |
| Cr | 52 | 6.811 | ug/L | 0.030 | 0 | 14350 | 139424 | 1 | Standard |
| Cr | 53 | 7.092 | ug/L | 0.105 | 1 | 118 | 14833 | 1 | Standard |
| Mn | 55 | 66.484 | ug/L | 0.644 | 0 | 638 | 1676838 | 1 | Standard |
| [> Ge | 72 | | ug/L | | | 26593 | 26830 | 1 | KED |
| Ni | 60 | 2.370 | ug/L | 0.131 | 5 | 24 | 2438 | 3 | KED |
| Ni | 62 | 2.243 | ug/L | 0.059 | 2 | 4 | 377 | 3 | KED |
| Cu | 63 | 3.668 | ug/L | 0.069 | 1 | 39 | 10940 | 3 | KED |
| Cu | 65 | 3.657 | ug/L | 0.134 | 3 | 28 | 5396 | 5 | KED |
| Zn | 66 | 5.047 | ug/L | 0.296 | 5 | 24 | 1922 | 4 | KED |
| Zn | 67 | 5.744 | ug/L | 0.483 | 8 | 3 | 363 | 6 | KED |
| As | 75 | 0.334 | ug/L | 0.031 | 9 | 6 | 72 | 9 | KED |
| Se | 78 | -0.016 | ug/L | 0.217 | 1389 | 20 | 20 | 22 | KED |
| Y | 89 | | ug/L | | | 265146 | 306360 | 1 | Standard |
| Kr | 83 | | ug/L | | | 48 | 49 | 30 | Standard |
| [> In-1 | 115 | | ug/L | | | 7168 | 7272 | 0 | KED |
| Cd | 111 | 0.028 | ug/L | 0.005 | 17 | 3 | 9 | 11 | KED |
| Cd | 114 | 0.044 | ug/L | 0.021 | 48 | 3 | 26 | 43 | KED |
| [> In | 115 | | ug/L | | | 374013 | 375730 | 0 | Standard |
| Ag | 107 | 0.028 | ug/L | 0.003 | 9 | 48 | 395 | 7 | Standard |
| Ba | 135 | 9.839 | ug/L | 0.086 | 0 | 24 | 30928 | 0 | Standard |
| Ba | 137 | 9.666 | ug/L | 0.048 | 0 | 29 | 53917 | 0 | Standard |
| [> Tb | 159 | | ug/L | | | 624828 | 654928 | 1 | Standard |
| Pb | 208 | 30.868 | ug/L | 0.545 | 1 | 160 | 1252271 | 0 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23C0513-01**

Sample Dil Factor: **5**

Comments:

Sample Date/Time: **Saturday, April 08, 2023 02:12:27**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30779 | 38649 | 2 | Standard |
| Cl | 37 | | ug/L | | | 4052820 | 4250781 | 0 | Standard |
| [> Sc | 45 | | ug/L | | | 457643 | 497873 | 1 | Standard |
| Cr | 52 | 0.020 | ug/L | 0.003 | 12 | 14350 | 15942 | 1 | Standard |
| Cr | 53 | 0.358 | ug/L | 0.029 | 8 | 118 | 803 | 7 | Standard |
| Mn | 55 | 48.052 | ug/L | 0.551 | 1 | 638 | 1102662 | 1 | Standard |
| [> Ge | 72 | | ug/L | | | 26593 | 26095 | 0 | KED |
| Ni | 60 | 0.544 | ug/L | 0.015 | 2 | 24 | 563 | 1 | KED |
| Ni | 62 | 0.519 | ug/L | 0.045 | 8 | 4 | 88 | 7 | KED |
| Cu | 63 | 0.117 | ug/L | 0.006 | 4 | 39 | 376 | 4 | KED |
| Cu | 65 | 0.093 | ug/L | 0.012 | 13 | 28 | 160 | 10 | KED |
| Zn | 66 | 0.671 | ug/L | 0.010 | 1 | 24 | 269 | 1 | KED |
| Zn | 67 | 0.763 | ug/L | 0.124 | 16 | 3 | 50 | 14 | KED |
| As | 75 | 0.106 | ug/L | 0.027 | 25 | 6 | 27 | 18 | KED |
| Se | 78 | -0.319 | ug/L | 0.177 | 55 | 20 | 13 | 27 | KED |
| Y | 89 | | ug/L | | | 265146 | 279138 | 1 | Standard |
| Kr | 83 | | ug/L | | | 48 | 38 | 27 | Standard |
| [> In-1 | 115 | | ug/L | | | 7168 | 7114 | 2 | KED |
| Cd | 111 | -0.007 | ug/L | 0.005 | 73 | 3 | 2 | 49 | KED |
| Cd | 114 | 0.003 | ug/L | 0.002 | 54 | 3 | 4 | 21 | KED |
| [> In | 115 | | ug/L | | | 374013 | 374655 | 1 | Standard |
| Ag | 107 | 0.023 | ug/L | 0.003 | 13 | 48 | 340 | 10 | Standard |
| Ba | 135 | 3.979 | ug/L | 0.015 | 0 | 24 | 12485 | 1 | Standard |
| Ba | 137 | 3.885 | ug/L | 0.088 | 2 | 29 | 21620 | 1 | Standard |
| [> Tb | 159 | | ug/L | | | 624828 | 655302 | 1 | Standard |
| Pb | 208 | 0.006 | ug/L | 0.001 | 11 | 160 | 409 | 7 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **BLD0022-DUP3**

Sample Dil Factor: **5**

Comments:

Sample Date/Time: **Saturday, April 08, 2023 02:17:11**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30779 | 37893 | 1 | Standard |
| Cl | 37 | | ug/L | | | 4052820 | 4276340 | 4 | Standard |
| > Sc | 45 | | ug/L | | | 457643 | 493333 | 1 | Standard |
| Cr | 52 | 0.012 | ug/L | 0.032 | 264 | 14350 | 15659 | 1 | Standard |
| Cr | 53 | 0.329 | ug/L | 0.003 | 0 | 118 | 741 | 1 | Standard |
| Mn | 55 | 47.416 | ug/L | 0.905 | 1 | 638 | 1077972 | 0 | Standard |
| > Ge | 72 | | ug/L | | | 26593 | 26944 | 1 | KED |
| Ni | 60 | 0.507 | ug/L | 0.025 | 4 | 24 | 543 | 4 | KED |
| Ni | 62 | 0.502 | ug/L | 0.015 | 2 | 4 | 88 | 1 | KED |
| Cu | 63 | 0.096 | ug/L | 0.010 | 10 | 39 | 326 | 8 | KED |
| Cu | 65 | 0.091 | ug/L | 0.004 | 4 | 28 | 162 | 3 | KED |
| Zn | 66 | 0.698 | ug/L | 0.011 | 1 | 24 | 288 | 0 | KED |
| Zn | 67 | 0.858 | ug/L | 0.060 | 7 | 3 | 57 | 5 | KED |
| As | 75 | 0.120 | ug/L | 0.015 | 12 | 6 | 30 | 10 | KED |
| Se | 78 | -0.405 | ug/L | 0.055 | 13 | 20 | 12 | 11 | KED |
| Y | 89 | | ug/L | | | 265146 | 280281 | 1 | Standard |
| Kr | 83 | | ug/L | | | 48 | 33 | 16 | Standard |
| > In-1 | 115 | | ug/L | | | 7168 | 7114 | 2 | KED |
| Cd | 111 | -0.006 | ug/L | 0.003 | 42 | 3 | 2 | 21 | KED |
| Cd | 114 | 0.005 | ug/L | 0.000 | 7 | 3 | 5 | 1 | KED |
| > In | 115 | | ug/L | | | 374013 | 375052 | 1 | Standard |
| Ag | 107 | 0.020 | ug/L | 0.001 | 5 | 48 | 304 | 4 | Standard |
| Ba | 135 | 3.840 | ug/L | 0.097 | 2 | 24 | 12060 | 1 | Standard |
| Ba | 137 | 3.899 | ug/L | 0.050 | 1 | 29 | 21723 | 0 | Standard |
| > Tb | 159 | | ug/L | | | 624828 | 653302 | 1 | Standard |
| Pb | 208 | 0.005 | ug/L | 0.001 | 18 | 160 | 362 | 9 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **BLD0022-MS3**

Sample Dil Factor: **5**

Comments:

Sample Date/Time: **Saturday, April 08, 2023 02:21:49**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30779 | 38405 | 1 | Standard |
| Cl | 37 | | ug/L | | | 4052820 | 4321052 | 2 | Standard |
| [> Sc | 45 | | ug/L | | | 457643 | 499128 | 0 | Standard |
| Cr | 52 | 5.181 | ug/L | 0.062 | 1 | 14350 | 100460 | 0 | Standard |
| Cr | 53 | 5.716 | ug/L | 0.068 | 1 | 118 | 10929 | 0 | Standard |
| Mn | 55 | 54.192 | ug/L | 0.637 | 1 | 638 | 1246643 | 1 | Standard |
| [> Ge | 72 | | ug/L | | | 26593 | 26050 | 1 | KED |
| Ni | 60 | 5.694 | ug/L | 0.319 | 5 | 24 | 5655 | 3 | KED |
| Ni | 62 | 5.818 | ug/L | 0.024 | 0 | 4 | 942 | 2 | KED |
| Cu | 63 | 5.318 | ug/L | 0.038 | 0 | 39 | 15380 | 2 | KED |
| Cu | 65 | 5.415 | ug/L | 0.120 | 2 | 28 | 7741 | 2 | KED |
| Zn | 66 | 18.164 | ug/L | 0.590 | 3 | 24 | 6658 | 2 | KED |
| Zn | 67 | 17.888 | ug/L | 1.103 | 6 | 3 | 1090 | 5 | KED |
| As | 75 | 5.588 | ug/L | 0.174 | 3 | 6 | 1070 | 3 | KED |
| [Se | 78 | 16.397 | ug/L | 0.314 | 1 | 20 | 370 | 1 | KED |
| Y | 89 | | ug/L | | | 265146 | 278636 | 1 | Standard |
| Kr | 83 | | ug/L | | | 48 | 47 | 10 | Standard |
| [> In-1 | 115 | | ug/L | | | 7168 | 7251 | 2 | KED |
| Cd | 111 | 5.215 | ug/L | 0.096 | 1 | 3 | 1120 | 2 | KED |
| Cd | 114 | 5.226 | ug/L | 0.231 | 4 | 3 | 2755 | 3 | KED |
| [> In | 115 | | ug/L | | | 374013 | 374232 | 0 | Standard |
| Ag | 107 | 5.330 | ug/L | 0.171 | 3 | 48 | 66538 | 3 | Standard |
| Ba | 135 | 9.439 | ug/L | 0.285 | 3 | 24 | 29550 | 2 | Standard |
| [Ba | 137 | 9.360 | ug/L | 0.098 | 1 | 29 | 51999 | 0 | Standard |
| [> Tb | 159 | | ug/L | | | 624828 | 653422 | 1 | Standard |
| [Pb | 208 | 5.489 | ug/L | 0.103 | 1 | 160 | 222283 | 0 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23C0539-01**

Sample Dil Factor:

Comments:

Sample Date/Time: **Saturday, April 08, 2023 02:27:57**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30779 | 44887 | 0 | Standard |
| Cl | 37 | | ug/L | | | 4052820 | 4436280 | 1 | Standard |
| > Sc | 45 | | ug/L | | | 457643 | 562620 | 2 | Standard |
| Cr | 52 | -0.005 | ug/L | 0.035 | 729 | 14350 | 17557 | 4 | Standard |
| Cr | 53 | 0.152 | ug/L | 0.004 | 2 | 118 | 470 | 3 | Standard |
| Mn | 55 | 146.433 | ug/L | 3.440 | 2 | 638 | 3795067 | 1 | Standard |
| > Ge | 72 | | ug/L | | | 26593 | 24680 | 0 | KED |
| Ni | 60 | 0.171 | ug/L | 0.016 | 9 | 24 | 182 | 8 | KED |
| Ni | 62 | 0.156 | ug/L | 0.031 | 19 | 4 | 27 | 17 | KED |
| Cu | 63 | 0.078 | ug/L | 0.017 | 22 | 39 | 250 | 19 | KED |
| Cu | 65 | 0.097 | ug/L | 0.016 | 16 | 28 | 158 | 13 | KED |
| Zn | 66 | 0.510 | ug/L | 0.032 | 6 | 24 | 198 | 5 | KED |
| Zn | 67 | 22.441 | ug/L | 1.077 | 4 | 3 | 1295 | 4 | KED |
| As | 75 | 0.193 | ug/L | 0.039 | 19 | 6 | 41 | 16 | KED |
| Se | 78 | -0.094 | ug/L | 0.095 | 101 | 20 | 17 | 11 | KED |
| Y | 89 | | ug/L | | | 265146 | 272807 | 1 | Standard |
| Kr | 83 | | ug/L | | | 48 | 46 | 20 | Standard |
| > In-1 | 115 | | ug/L | | | 7168 | 6800 | 2 | KED |
| Cd | 111 | 0.011 | ug/L | 0.013 | 119 | 3 | 5 | 44 | KED |
| Cd | 114 | 0.003 | ug/L | 0.006 | 221 | 3 | 4 | 68 | KED |
| > In | 115 | | ug/L | | | 374013 | 355422 | 0 | Standard |
| Ag | 107 | 0.018 | ug/L | 0.002 | 10 | 48 | 260 | 9 | Standard |
| Ba | 135 | 286.223 | ug/L | 5.046 | 1 | 24 | 850353 | 1 | Standard |
| Ba | 137 | 288.764 | ug/L | 6.584 | 2 | 29 | 1522814 | 2 | Standard |
| > Tb | 159 | | ug/L | | | 624828 | 639701 | 2 | Standard |
| Pb | 208 | 0.005 | ug/L | 0.000 | 4 | 160 | 357 | 4 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **BLD0101-DUP2**

Sample Dil Factor:

Comments:

Sample Date/Time: **Saturday, April 08, 2023 02:32:34**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30779 | 45469 | 2 | Standard |
| Cl | 37 | | ug/L | | | 4052820 | 4344634 | 1 | Standard |
| > Sc | 45 | | ug/L | | | 457643 | 547798 | 7 | Standard |
| Cr | 52 | 0.004 | ug/L | 0.050 | 1128 | 14350 | 17211 | 2 | Standard |
| Cr | 53 | 0.141 | ug/L | 0.015 | 10 | 118 | 433 | 1 | Standard |
| Mn | 55 | 142.838 | ug/L | 11.340 | 7 | 638 | 3590790 | 0 | Standard |
| > Ge | 72 | | ug/L | | | 26593 | 24184 | 2 | KED |
| Ni | 60 | 0.172 | ug/L | 0.022 | 12 | 24 | 180 | 10 | KED |
| Ni | 62 | 0.190 | ug/L | 0.063 | 33 | 4 | 32 | 26 | KED |
| Cu | 63 | 0.051 | ug/L | 0.007 | 13 | 39 | 172 | 11 | KED |
| Cu | 65 | 0.081 | ug/L | 0.008 | 9 | 28 | 133 | 5 | KED |
| Zn | 66 | 0.516 | ug/L | 0.042 | 8 | 24 | 196 | 4 | KED |
| Zn | 67 | 22.449 | ug/L | 1.773 | 7 | 3 | 1269 | 6 | KED |
| As | 75 | 0.156 | ug/L | 0.015 | 9 | 6 | 33 | 9 | KED |
| Se | 78 | -0.083 | ug/L | 0.107 | 129 | 20 | 17 | 14 | KED |
| Y | 89 | | ug/L | | | 265146 | 265555 | 3 | Standard |
| Kr | 83 | | ug/L | | | 48 | 52 | 24 | Standard |
| > In-1 | 115 | | ug/L | | | 7168 | 6882 | 1 | KED |
| Cd | 111 | 0.001 | ug/L | 0.005 | 623 | 3 | 3 | 25 | KED |
| Cd | 114 | 0.005 | ug/L | 0.010 | 193 | 3 | 5 | 91 | KED |
| > In | 115 | | ug/L | | | 374013 | 339961 | 5 | Standard |
| Ag | 107 | 0.016 | ug/L | 0.000 | 2 | 48 | 220 | 7 | Standard |
| Ba | 135 | 290.798 | ug/L | 9.427 | 3 | 24 | 825397 | 2 | Standard |
| Ba | 137 | 290.376 | ug/L | 9.785 | 3 | 29 | 1462844 | 2 | Standard |
| > Tb | 159 | | ug/L | | | 624828 | 614536 | 4 | Standard |
| Pb | 208 | 0.004 | ug/L | 0.000 | 10 | 160 | 323 | 10 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **BLD0101-MS2**

Sample Dil Factor:

Comments:

Sample Date/Time: **Saturday, April 08, 2023 02:37:42**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30779 | 44381 | 1 | Standard |
| Cl | 37 | | ug/L | | | 4052820 | 4335410 | 1 | Standard |
| > Sc | 45 | | ug/L | | | 457643 | 549100 | 0 | Standard |
| Cr | 52 | 23.566 | ug/L | 0.171 | 0 | 14350 | 441623 | 0 | Standard |
| Cr | 53 | 23.978 | ug/L | 0.174 | 0 | 118 | 49986 | 1 | Standard |
| Mn | 55 | 160.005 | ug/L | 0.670 | 0 | 638 | 4047985 | 1 | Standard |
| > Ge | 72 | | ug/L | | | 26593 | 23993 | 0 | KED |
| Ni | 60 | 26.750 | ug/L | 0.632 | 2 | 24 | 24399 | 2 | KED |
| Ni | 62 | 27.007 | ug/L | 0.394 | 1 | 4 | 4016 | 1 | KED |
| Cu | 63 | 26.201 | ug/L | 0.287 | 1 | 39 | 69657 | 1 | KED |
| Cu | 65 | 26.216 | ug/L | 0.592 | 2 | 28 | 34419 | 1 | KED |
| Zn | 66 | 78.151 | ug/L | 0.518 | 0 | 24 | 26317 | 0 | KED |
| Zn | 67 | 94.822 | ug/L | 4.747 | 5 | 3 | 5311 | 4 | KED |
| As | 75 | 26.761 | ug/L | 0.592 | 2 | 6 | 4696 | 1 | KED |
| Se | 78 | 79.449 | ug/L | 0.679 | 0 | 20 | 1582 | 1 | KED |
| Y | 89 | | ug/L | | | 265146 | 266671 | 0 | Standard |
| Kr | 83 | | ug/L | | | 48 | 60 | 15 | Standard |
| > In-1 | 115 | | ug/L | | | 7168 | 6596 | 3 | KED |
| Cd | 111 | 26.003 | ug/L | 0.374 | 1 | 3 | 5067 | 2 | KED |
| Cd | 114 | 26.202 | ug/L | 0.687 | 2 | 3 | 12555 | 1 | KED |
| > In | 115 | | ug/L | | | 374013 | 345452 | 1 | Standard |
| Ag | 107 | 26.240 | ug/L | 0.354 | 1 | 48 | 302157 | 1 | Standard |
| Ba | 135 | 303.165 | ug/L | 5.260 | 1 | 24 | 875339 | 0 | Standard |
| Ba | 137 | 304.802 | ug/L | 1.819 | 0 | 29 | 1562229 | 0 | Standard |
| > Tb | 159 | | ug/L | | | 624828 | 629886 | 1 | Standard |
| Pb | 208 | 26.356 | ug/L | 0.348 | 1 | 160 | 1028413 | 0 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **BLD0101-MSD2**

Sample Dil Factor:

Comments:

Sample Date/Time: **Saturday, April 08, 2023 02:43:50**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30779 | 45986 | 2 | Standard |
| Cl | 37 | | ug/L | | | 4052820 | 4242288 | 1 | Standard |
| > Sc | 45 | | ug/L | | | 457643 | 538114 | 0 | Standard |
| Cr | 52 | 23.257 | ug/L | 0.228 | 0 | 14350 | 427364 | 1 | Standard |
| Cr | 53 | 23.835 | ug/L | 0.126 | 0 | 118 | 48692 | 0 | Standard |
| Mn | 55 | 164.823 | ug/L | 1.874 | 1 | 638 | 4086335 | 1 | Standard |
| > Ge | 72 | | ug/L | | | 26593 | 24304 | 2 | KED |
| Ni | 60 | 25.910 | ug/L | 1.131 | 4 | 24 | 23925 | 2 | KED |
| Ni | 62 | 26.567 | ug/L | 1.417 | 5 | 4 | 3999 | 3 | KED |
| Cu | 63 | 25.120 | ug/L | 0.696 | 2 | 39 | 67619 | 0 | KED |
| Cu | 65 | 25.113 | ug/L | 1.285 | 5 | 28 | 33383 | 3 | KED |
| Zn | 66 | 77.569 | ug/L | 3.094 | 3 | 24 | 26447 | 2 | KED |
| Zn | 67 | 91.850 | ug/L | 5.518 | 6 | 3 | 5208 | 4 | KED |
| As | 75 | 25.657 | ug/L | 0.547 | 2 | 6 | 4561 | 1 | KED |
| Se | 78 | 76.955 | ug/L | 1.368 | 1 | 20 | 1552 | 0 | KED |
| Y | 89 | | ug/L | | | 265146 | 273355 | 1 | Standard |
| Kr | 83 | | ug/L | | | 48 | 57 | 15 | Standard |
| > In-1 | 115 | | ug/L | | | 7168 | 6711 | 1 | KED |
| Cd | 111 | 25.542 | ug/L | 1.091 | 4 | 3 | 5064 | 3 | KED |
| Cd | 114 | 25.672 | ug/L | 0.743 | 2 | 3 | 12521 | 1 | KED |
| > In | 115 | | ug/L | | | 374013 | 347389 | 0 | Standard |
| Ag | 107 | 26.639 | ug/L | 0.287 | 1 | 48 | 308477 | 0 | Standard |
| Ba | 135 | 311.107 | ug/L | 1.467 | 0 | 24 | 903463 | 0 | Standard |
| Ba | 137 | 307.727 | ug/L | 7.193 | 2 | 29 | 1586136 | 2 | Standard |
| > Tb | 159 | | ug/L | | | 624828 | 626869 | 1 | Standard |
| Pb | 208 | 25.921 | ug/L | 0.635 | 2 | 160 | 1006404 | 0 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLE

Sample Dil Factor:

Comments:

Sample Date/Time: Saturday, April 08, 2023 02:48:29

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30779 | 31844 | 1 | Standard |
| Cl | 37 | | ug/L | | | 4052820 | 4344661 | 1 | Standard |
| > Sc | 45 | | ug/L | | | 457643 | 457283 | 2 | Standard |
| Cr | 52 | 0.015 | ug/L | 0.035 | 239 | 14350 | 14558 | 3 | Standard |
| Cr | 53 | 0.006 | ug/L | 0.002 | 32 | 118 | 128 | 4 | Standard |
| Mn | 55 | 0.097 | ug/L | 0.000 | 0 | 638 | 2675 | 2 | Standard |
| > Ge | 72 | | ug/L | | | 26593 | 25863 | 0 | KED |
| Ni | 60 | -0.009 | ug/L | 0.007 | 79 | 24 | 15 | 45 | KED |
| Ni | 62 | 0.009 | ug/L | 0.000 | 3 | 4 | 5 | 0 | KED |
| Cu | 63 | 0.038 | ug/L | 0.008 | 20 | 39 | 147 | 14 | KED |
| Cu | 65 | 0.038 | ug/L | 0.004 | 11 | 28 | 81 | 7 | KED |
| Zn | 66 | 0.055 | ug/L | 0.053 | 96 | 24 | 43 | 43 | KED |
| Zn | 67 | 0.023 | ug/L | 0.091 | 400 | 3 | 5 | 108 | KED |
| As | 75 | -0.011 | ug/L | 0.004 | 40 | 6 | 4 | 17 | KED |
| Se | 78 | -0.349 | ug/L | 0.089 | 25 | 20 | 13 | 15 | KED |
| Y | 89 | | ug/L | | | 265146 | 258686 | 3 | Standard |
| Kr | 83 | | ug/L | | | 48 | 33 | 34 | Standard |
| > In-1 | 115 | | ug/L | | | 7168 | 6973 | 3 | KED |
| Cd | 111 | 0.001 | ug/L | 0.010 | 1417 | 3 | 3 | 50 | KED |
| Cd | 114 | 0.002 | ug/L | 0.004 | 258 | 3 | 3 | 52 | KED |
| > In | 115 | | ug/L | | | 374013 | 363899 | 1 | Standard |
| Ag | 107 | 0.016 | ug/L | 0.002 | 10 | 48 | 243 | 10 | Standard |
| Ba | 135 | 0.012 | ug/L | 0.002 | 14 | 24 | 60 | 9 | Standard |
| Ba | 137 | 0.015 | ug/L | 0.001 | 8 | 29 | 111 | 7 | Standard |
| > Tb | 159 | | ug/L | | | 624828 | 622162 | 2 | Standard |
| Pb | 208 | -0.001 | ug/L | 0.000 | 35 | 160 | 135 | 7 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVE

Sample Dil Factor:

Comments:

Sample Date/Time: Saturday, April 08, 2023 02:53:14

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30779 | 31972 | 3 | Standard |
| Cl | 37 | | ug/L | | | 4052820 | 4334435 | 1 | Standard |
| [> Sc | 45 | | ug/L | | | 457643 | 481573 | 0 | Standard |
| Cr | 52 | 49.867 | ug/L | 0.314 | 0 | 14350 | 802745 | 0 | Standard |
| Cr | 53 | 51.408 | ug/L | 0.774 | 1 | 118 | 93845 | 1 | Standard |
| Mn | 55 | 50.782 | ug/L | 0.601 | 1 | 638 | 1127165 | 1 | Standard |
| [> Ge | 72 | | ug/L | | | 26593 | 26461 | 1 | KED |
| Ni | 60 | 48.432 | ug/L | 0.788 | 1 | 24 | 48696 | 0 | KED |
| Ni | 62 | 49.287 | ug/L | 1.443 | 2 | 4 | 8079 | 2 | KED |
| Cu | 63 | 49.417 | ug/L | 0.485 | 0 | 39 | 144841 | 0 | KED |
| Cu | 65 | 49.696 | ug/L | 1.255 | 2 | 28 | 71934 | 2 | KED |
| Zn | 66 | 50.224 | ug/L | 2.124 | 4 | 24 | 18654 | 2 | KED |
| Zn | 67 | 50.612 | ug/L | 0.787 | 1 | 3 | 3129 | 2 | KED |
| As | 75 | 49.450 | ug/L | 0.864 | 1 | 6 | 9565 | 0 | KED |
| [Se | 78 | 46.411 | ug/L | 1.062 | 2 | 20 | 1028 | 3 | KED |
| Y | 89 | | ug/L | | | 265146 | 272289 | 2 | Standard |
| Kr | 83 | | ug/L | | | 48 | 48 | 8 | Standard |
| [> In-1 | 115 | | ug/L | | | 7168 | 7234 | 3 | KED |
| Cd | 111 | 50.882 | ug/L | 1.720 | 3 | 3 | 10866 | 0 | KED |
| [Cd | 114 | 51.262 | ug/L | 1.877 | 3 | 3 | 26934 | 2 | KED |
| [> In | 115 | | ug/L | | | 374013 | 372120 | 3 | Standard |
| Ag | 107 | 50.943 | ug/L | 2.192 | 4 | 48 | 631288 | 0 | Standard |
| Ba | 135 | 51.431 | ug/L | 1.604 | 3 | 24 | 159898 | 0 | Standard |
| [Ba | 137 | 50.438 | ug/L | 1.628 | 3 | 29 | 278310 | 0 | Standard |
| [> Tb | 159 | | ug/L | | | 624828 | 653255 | 1 | Standard |
| [Pb | 208 | 51.076 | ug/L | 0.827 | 1 | 160 | 2066714 | 0 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBE

Sample Dil Factor:

Comments:

Sample Date/Time: Saturday, April 08, 2023 03:00:42

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30779 | 31143 | 3 | Standard |
| Cl | 37 | | ug/L | | | 4052820 | 4188772 | 1 | Standard |
| [> Sc | 45 | | ug/L | | | 457643 | 458965 | 2 | Standard |
| Cr | 52 | -0.002 | ug/L | 0.023 | 998 | 14350 | 14354 | 2 | Standard |
| Cr | 53 | 0.008 | ug/L | 0.007 | 91 | 118 | 133 | 7 | Standard |
| Mn | 55 | 0.084 | ug/L | 0.002 | 2 | 638 | 2425 | 1 | Standard |
| [> Ge | 72 | | ug/L | | | 26593 | 25378 | 2 | KED |
| Ni | 60 | -0.005 | ug/L | 0.007 | 143 | 24 | 19 | 36 | KED |
| Ni | 62 | -0.007 | ug/L | 0.014 | 194 | 4 | 3 | 69 | KED |
| Cu | 63 | 0.003 | ug/L | 0.006 | 212 | 39 | 45 | 37 | KED |
| Cu | 65 | 0.000 | ug/L | 0.006 | 1339 | 28 | 27 | 31 | KED |
| Zn | 66 | -0.006 | ug/L | 0.010 | 180 | 24 | 20 | 15 | KED |
| Zn | 67 | -0.007 | ug/L | 0.049 | 661 | 3 | 3 | 91 | KED |
| As | 75 | -0.005 | ug/L | 0.011 | 208 | 6 | 5 | 38 | KED |
| Se | 78 | -0.082 | ug/L | 0.122 | 148 | 20 | 18 | 11 | KED |
| Y | 89 | | ug/L | | | 265146 | 256524 | 0 | Standard |
| Kr | 83 | | ug/L | | | 48 | 46 | 20 | Standard |
| [> In-1 | 115 | | ug/L | | | 7168 | 6821 | 4 | KED |
| Cd | 111 | 0.001 | ug/L | 0.009 | 793 | 3 | 3 | 43 | KED |
| Cd | 114 | 0.001 | ug/L | 0.007 | 449 | 3 | 3 | 92 | KED |
| [> In | 115 | | ug/L | | | 374013 | 363828 | 0 | Standard |
| Ag | 107 | 0.014 | ug/L | 0.002 | 11 | 48 | 219 | 8 | Standard |
| Ba | 135 | 0.000 | ug/L | 0.001 | 220 | 24 | 25 | 11 | Standard |
| Ba | 137 | 0.004 | ug/L | 0.000 | 11 | 29 | 50 | 4 | Standard |
| [> Tb | 159 | | ug/L | | | 624828 | 632328 | 0 | Standard |
| Pb | 208 | -0.002 | ug/L | 0.000 | 5 | 160 | 102 | 3 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23C0591-04**

Sample Dil Factor: **5**

Comments:

Sample Date/Time: **Saturday, April 08, 2023 03:05:27**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|-----------|------|---------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30779 | 72095 | 2 | Standard |
| Cl | 37 | | ug/L | | | 4052820 | 4388683 | 1 | Standard |
| [> Sc | 45 | | ug/L | | | 457643 | 481638 | 1 | Standard |
| Cr | 52 | 0.237 | ug/L | 0.011 | 4 | 14350 | 18848 | 1 | Standard |
| Cr | 53 | 0.382 | ug/L | 0.019 | 5 | 118 | 821 | 3 | Standard |
| Mn | 55 | 5.634 | ug/L | 0.122 | 2 | 638 | 125631 | 0 | Standard |
| [> Ge | 72 | | ug/L | | | 26593 | 25759 | 0 | KED |
| Ni | 60 | 0.391 | ug/L | 0.028 | 7 | 24 | 406 | 7 | KED |
| Ni | 62 | 0.451 | ug/L | 0.003 | 0 | 4 | 76 | 0 | KED |
| Cu | 63 | 7.218 | ug/L | 0.130 | 1 | 39 | 20627 | 1 | KED |
| Cu | 65 | 7.380 | ug/L | 0.134 | 1 | 28 | 10423 | 2 | KED |
| Zn | 66 | 41.397 | ug/L | 1.064 | 2 | 24 | 14976 | 1 | KED |
| Zn | 67 | 36.882 | ug/L | 0.841 | 2 | 3 | 2220 | 1 | KED |
| As | 75 | 0.086 | ug/L | 0.006 | 6 | 6 | 23 | 4 | KED |
| Se | 78 | -0.159 | ug/L | 0.021 | 13 | 20 | 16 | 2 | KED |
| Y | 89 | | ug/L | | | 265146 | 272616 | 2 | Standard |
| Kr | 83 | | ug/L | | | 48 | 49 | 15 | Standard |
| [> In-1 | 115 | | ug/L | | | 7168 | 7121 | 1 | KED |
| Cd | 111 | 0.033 | ug/L | 0.010 | 29 | 3 | 10 | 18 | KED |
| Cd | 114 | 0.040 | ug/L | 0.008 | 19 | 3 | 23 | 16 | KED |
| [> In | 115 | | ug/L | | | 374013 | 367485 | 0 | Standard |
| Ag | 107 | 0.017 | ug/L | 0.001 | 4 | 48 | 250 | 3 | Standard |
| Ba | 135 | 1.699 | ug/L | 0.060 | 3 | 24 | 5240 | 2 | Standard |
| Ba | 137 | 1.695 | ug/L | 0.038 | 2 | 29 | 9271 | 1 | Standard |
| [> Tb | 159 | | ug/L | | | 624828 | 643167 | 1 | Standard |
| Pb | 208 | 0.181 | ug/L | 0.002 | 1 | 160 | 7356 | 1 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23C0591-02**

Sample Dil Factor: **2**

Comments:

Sample Date/Time: **Saturday, April 08, 2023 03:10:11**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|-----------|------|---------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30779 | 42851 | 1 | Standard |
| Cl | 37 | | ug/L | | | 4052820 | 4280472 | 1 | Standard |
| [> Sc | 45 | | ug/L | | | 457643 | 506874 | 1 | Standard |
| Cr | 52 | 0.357 | ug/L | 0.015 | 4 | 14350 | 21824 | 2 | Standard |
| Cr | 53 | 0.488 | ug/L | 0.009 | 1 | 118 | 1067 | 2 | Standard |
| Mn | 55 | 55.047 | ug/L | 1.364 | 2 | 638 | 1285751 | 1 | Standard |
| [> Ge | 72 | | ug/L | | | 26593 | 26065 | 1 | KED |
| Ni | 60 | 0.450 | ug/L | 0.019 | 4 | 24 | 469 | 2 | KED |
| Ni | 62 | 0.461 | ug/L | 0.052 | 11 | 4 | 78 | 9 | KED |
| Cu | 63 | 0.985 | ug/L | 0.019 | 1 | 39 | 2881 | 0 | KED |
| Cu | 65 | 1.002 | ug/L | 0.036 | 3 | 28 | 1455 | 2 | KED |
| Zn | 66 | 26.258 | ug/L | 0.696 | 2 | 24 | 9619 | 0 | KED |
| Zn | 67 | 24.687 | ug/L | 0.461 | 1 | 3 | 1505 | 2 | KED |
| As | 75 | 0.748 | ug/L | 0.020 | 2 | 6 | 149 | 3 | KED |
| Se | 78 | -0.235 | ug/L | 0.050 | 21 | 20 | 15 | 5 | KED |
| Y | 89 | | ug/L | | | 265146 | 277640 | 1 | Standard |
| Kr | 83 | | ug/L | | | 48 | 44 | 41 | Standard |
| [> In-1 | 115 | | ug/L | | | 7168 | 7009 | 1 | KED |
| Cd | 111 | 0.028 | ug/L | 0.013 | 45 | 3 | 9 | 26 | KED |
| Cd | 114 | 0.029 | ug/L | 0.002 | 5 | 3 | 17 | 6 | KED |
| [> In | 115 | | ug/L | | | 374013 | 374039 | 0 | Standard |
| Ag | 107 | 0.010 | ug/L | 0.001 | 6 | 48 | 175 | 4 | Standard |
| Ba | 135 | 11.522 | ug/L | 0.115 | 1 | 24 | 36050 | 1 | Standard |
| Ba | 137 | 11.499 | ug/L | 0.180 | 1 | 29 | 63841 | 0 | Standard |
| [> Tb | 159 | | ug/L | | | 624828 | 644401 | 1 | Standard |
| Pb | 208 | 0.088 | ug/L | 0.003 | 2 | 160 | 3687 | 2 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23C0591-05**

Sample Dil Factor: **2**

Comments:

Sample Date/Time: **Saturday, April 08, 2023 03:14:55**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|-----------|------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30779 | 48251 | 2 | Standard |
| Cl | 37 | | ug/L | | | 4052820 | 5175730 | 0 | Standard |
| [> Sc | 45 | | ug/L | | | 457643 | 500658 | 0 | Standard |
| Cr | 52 | 0.511 | ug/L | 0.020 | 3 | 14350 | 24093 | 1 | Standard |
| Cr | 53 | 1.244 | ug/L | 0.006 | 0 | 118 | 2487 | 0 | Standard |
| Mn | 55 | 132.932 | ug/L | 1.633 | 1 | 638 | 3066567 | 1 | Standard |
| [> Ge | 72 | | ug/L | | | 26593 | 26089 | 0 | KED |
| Ni | 60 | 0.870 | ug/L | 0.019 | 2 | 24 | 887 | 2 | KED |
| Ni | 62 | 0.838 | ug/L | 0.053 | 6 | 4 | 139 | 6 | KED |
| Cu | 63 | 2.025 | ug/L | 0.027 | 1 | 39 | 5889 | 1 | KED |
| Cu | 65 | 2.075 | ug/L | 0.080 | 3 | 28 | 2987 | 3 | KED |
| Zn | 66 | 39.110 | ug/L | 1.000 | 2 | 24 | 14330 | 1 | KED |
| Zn | 67 | 36.558 | ug/L | 0.393 | 1 | 3 | 2229 | 0 | KED |
| As | 75 | 0.654 | ug/L | 0.034 | 5 | 6 | 131 | 4 | KED |
| [Se | 78 | -0.212 | ug/L | 0.116 | 54 | 20 | 16 | 14 | KED |
| Y | 89 | | ug/L | | | 265146 | 272845 | 1 | Standard |
| Kr | 83 | | ug/L | | | 48 | 34 | 15 | Standard |
| [> In-1 | 115 | | ug/L | | | 7168 | 6944 | 0 | KED |
| Cd | 111 | 0.032 | ug/L | 0.011 | 33 | 3 | 10 | 21 | KED |
| Cd | 114 | 0.038 | ug/L | 0.012 | 30 | 3 | 22 | 26 | KED |
| [> In | 115 | | ug/L | | | 374013 | 369346 | 1 | Standard |
| Ag | 107 | 0.014 | ug/L | 0.002 | 15 | 48 | 215 | 13 | Standard |
| Ba | 135 | 17.616 | ug/L | 0.121 | 0 | 24 | 54409 | 0 | Standard |
| [Ba | 137 | 17.319 | ug/L | 0.171 | 0 | 29 | 94938 | 1 | Standard |
| [> Tb | 159 | | ug/L | | | 624828 | 648104 | 0 | Standard |
| [Pb | 208 | 0.186 | ug/L | 0.001 | 0 | 160 | 7616 | 0 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23C0591-06**

Sample Dil Factor: **2**

Comments:

Sample Date/Time: **Saturday, April 08, 2023 03:19:39**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|-----------|------|---------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30779 | 43676 | 3 | Standard |
| Cl | 37 | | ug/L | | | 4052820 | 4534983 | 1 | Standard |
| [> Sc | 45 | | ug/L | | | 457643 | 481023 | 1 | Standard |
| Cr | 52 | 0.460 | ug/L | 0.024 | 5 | 14350 | 22344 | 0 | Standard |
| Cr | 53 | 0.665 | ug/L | 0.024 | 3 | 118 | 1335 | 2 | Standard |
| Mn | 55 | 51.943 | ug/L | 0.736 | 1 | 638 | 1151707 | 2 | Standard |
| [> Ge | 72 | | ug/L | | | 26593 | 26290 | 1 | KED |
| Ni | 60 | 0.368 | ug/L | 0.029 | 7 | 24 | 391 | 8 | KED |
| Ni | 62 | 0.461 | ug/L | 0.053 | 11 | 4 | 79 | 9 | KED |
| Cu | 63 | 0.850 | ug/L | 0.027 | 3 | 39 | 2512 | 4 | KED |
| Cu | 65 | 0.859 | ug/L | 0.029 | 3 | 28 | 1262 | 4 | KED |
| Zn | 66 | 16.912 | ug/L | 0.633 | 3 | 24 | 6256 | 2 | KED |
| Zn | 67 | 15.739 | ug/L | 0.294 | 1 | 3 | 969 | 3 | KED |
| As | 75 | 0.261 | ug/L | 0.020 | 7 | 6 | 56 | 7 | KED |
| Se | 78 | -0.191 | ug/L | 0.165 | 86 | 20 | 16 | 22 | KED |
| Y | 89 | | ug/L | | | 265146 | 272690 | 0 | Standard |
| Kr | 83 | | ug/L | | | 48 | 47 | 31 | Standard |
| [> In-1 | 115 | | ug/L | | | 7168 | 7062 | 2 | KED |
| Cd | 111 | 0.025 | ug/L | 0.014 | 57 | 3 | 8 | 32 | KED |
| Cd | 114 | 0.012 | ug/L | 0.004 | 32 | 3 | 9 | 20 | KED |
| [> In | 115 | | ug/L | | | 374013 | 366917 | 0 | Standard |
| Ag | 107 | 0.010 | ug/L | 0.002 | 20 | 48 | 171 | 15 | Standard |
| Ba | 135 | 12.529 | ug/L | 0.265 | 2 | 24 | 38456 | 2 | Standard |
| Ba | 137 | 12.692 | ug/L | 0.166 | 1 | 29 | 69128 | 1 | Standard |
| [> Tb | 159 | | ug/L | | | 624828 | 649365 | 0 | Standard |
| Pb | 208 | 0.116 | ug/L | 0.004 | 3 | 160 | 4821 | 2 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23C0591-07**

Sample Dil Factor: **2**

Comments:

Sample Date/Time: **Saturday, April 08, 2023 03:24:23**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|-----------|------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30779 | 45131 | 3 | Standard |
| Cl | 37 | | ug/L | | | 4052820 | 5182665 | 0 | Standard |
| > Sc | 45 | | ug/L | | | 457643 | 494785 | 2 | Standard |
| Cr | 52 | 0.653 | ug/L | 0.041 | 6 | 14350 | 26099 | 2 | Standard |
| Cr | 53 | 1.301 | ug/L | 0.012 | 0 | 118 | 2564 | 1 | Standard |
| Mn | 55 | 108.749 | ug/L | 2.235 | 2 | 638 | 2478481 | 0 | Standard |
| > Ge | 72 | | ug/L | | | 26593 | 25925 | 1 | KED |
| Ni | 60 | 0.834 | ug/L | 0.013 | 1 | 24 | 845 | 1 | KED |
| Ni | 62 | 0.815 | ug/L | 0.203 | 24 | 4 | 135 | 24 | KED |
| Cu | 63 | 1.536 | ug/L | 0.023 | 1 | 39 | 4447 | 1 | KED |
| Cu | 65 | 1.588 | ug/L | 0.025 | 1 | 28 | 2279 | 1 | KED |
| Zn | 66 | 27.109 | ug/L | 0.763 | 2 | 24 | 9878 | 2 | KED |
| Zn | 67 | 26.472 | ug/L | 1.470 | 5 | 3 | 1605 | 6 | KED |
| As | 75 | 0.581 | ug/L | 0.016 | 2 | 6 | 116 | 2 | KED |
| Se | 78 | -0.012 | ug/L | 0.158 | 1278 | 20 | 20 | 16 | KED |
| Y | 89 | | ug/L | | | 265146 | 276627 | 1 | Standard |
| Kr | 83 | | ug/L | | | 48 | 50 | 5 | Standard |
| > In-1 | 115 | | ug/L | | | 7168 | 7327 | 1 | KED |
| Cd | 111 | 0.035 | ug/L | 0.008 | 23 | 3 | 11 | 14 | KED |
| Cd | 114 | 0.043 | ug/L | 0.027 | 63 | 3 | 25 | 55 | KED |
| > In | 115 | | ug/L | | | 374013 | 375453 | 1 | Standard |
| Ag | 107 | 0.011 | ug/L | 0.003 | 26 | 48 | 190 | 19 | Standard |
| Ba | 135 | 19.582 | ug/L | 0.267 | 1 | 24 | 61476 | 0 | Standard |
| Ba | 137 | 19.796 | ug/L | 0.528 | 2 | 29 | 110288 | 1 | Standard |
| > Tb | 159 | | ug/L | | | 624828 | 653645 | 1 | Standard |
| Pb | 208 | 0.231 | ug/L | 0.004 | 1 | 160 | 9537 | 1 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23C0591-08**

Sample Dil Factor: **2**

Comments:

Sample Date/Time: **Saturday, April 08, 2023 03:29:07**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|-----------|------|---------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30779 | 48404 | 4 | Standard |
| Cl | 37 | | ug/L | | | 4052820 | 6371769 | 3 | Standard |
| [> Sc | 45 | | ug/L | | | 457643 | 532069 | 1 | Standard |
| Cr | 52 | 0.789 | ug/L | 0.027 | 3 | 14350 | 30449 | 0 | Standard |
| Cr | 53 | 3.056 | ug/L | 0.027 | 0 | 118 | 6292 | 0 | Standard |
| Mn | 55 | 53.636 | ug/L | 0.986 | 1 | 638 | 1315136 | 0 | Standard |
| [> Ge | 72 | | ug/L | | | 26593 | 25264 | 0 | KED |
| Ni | 60 | 3.042 | ug/L | 0.074 | 2 | 24 | 2943 | 2 | KED |
| Ni | 62 | 2.948 | ug/L | 0.120 | 4 | 4 | 465 | 3 | KED |
| Cu | 63 | 5.366 | ug/L | 0.036 | 0 | 39 | 15052 | 0 | KED |
| Cu | 65 | 5.407 | ug/L | 0.051 | 0 | 28 | 7497 | 1 | KED |
| Zn | 66 | 37.441 | ug/L | 0.515 | 1 | 24 | 13288 | 1 | KED |
| Zn | 67 | 36.430 | ug/L | 1.126 | 3 | 3 | 2151 | 2 | KED |
| As | 75 | 0.784 | ug/L | 0.071 | 9 | 6 | 151 | 8 | KED |
| [Se | 78 | -0.189 | ug/L | 0.098 | 52 | 20 | 16 | 13 | KED |
| Y | 89 | | ug/L | | | 265146 | 278841 | 1 | Standard |
| Kr | 83 | | ug/L | | | 48 | 38 | 22 | Standard |
| [> In-1 | 115 | | ug/L | | | 7168 | 7082 | 3 | KED |
| Cd | 111 | 0.037 | ug/L | 0.018 | 48 | 3 | 11 | 28 | KED |
| Cd | 114 | 0.050 | ug/L | 0.026 | 51 | 3 | 28 | 47 | KED |
| [> In | 115 | | ug/L | | | 374013 | 366062 | 0 | Standard |
| Ag | 107 | 0.016 | ug/L | 0.002 | 9 | 48 | 248 | 7 | Standard |
| Ba | 135 | 29.171 | ug/L | 0.532 | 1 | 24 | 89281 | 1 | Standard |
| [Ba | 137 | 28.748 | ug/L | 0.061 | 0 | 29 | 156169 | 0 | Standard |
| [> Tb | 159 | | ug/L | | | 624828 | 644975 | 0 | Standard |
| [Pb | 208 | 0.819 | ug/L | 0.009 | 1 | 160 | 32870 | 0 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23C0591-03RE1**

Sample Dil Factor: **10**

Comments:

Sample Date/Time: **Saturday, April 08, 2023 03:34:15**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|-----------|------|---------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30779 | 39226 | 1 | Standard |
| Cl | 37 | | ug/L | | | 4052820 | 4484256 | 1 | Standard |
| > Sc | 45 | | ug/L | | | 457643 | 480506 | 1 | Standard |
| Cr | 52 | 0.153 | ug/L | 0.020 | 13 | 14350 | 17474 | 0 | Standard |
| Cr | 53 | 0.559 | ug/L | 0.026 | 4 | 118 | 1140 | 3 | Standard |
| Mn | 55 | 52.386 | ug/L | 0.848 | 1 | 638 | 1160126 | 1 | Standard |
| > Ge | 72 | | ug/L | | | 26593 | 26152 | 1 | KED |
| Ni | 60 | 0.132 | ug/L | 0.022 | 16 | 24 | 154 | 13 | KED |
| Ni | 62 | 0.188 | ug/L | 0.039 | 20 | 4 | 34 | 19 | KED |
| Cu | 63 | 0.245 | ug/L | 0.006 | 2 | 39 | 749 | 1 | KED |
| Cu | 65 | 0.252 | ug/L | 0.015 | 5 | 28 | 388 | 6 | KED |
| Zn | 66 | 4.505 | ug/L | 0.111 | 2 | 24 | 1676 | 3 | KED |
| Zn | 67 | 4.681 | ug/L | 0.207 | 4 | 3 | 289 | 5 | KED |
| As | 75 | 0.336 | ug/L | 0.043 | 12 | 6 | 71 | 11 | KED |
| Se | 78 | -0.205 | ug/L | 0.109 | 53 | 20 | 16 | 13 | KED |
| Y | 89 | | ug/L | | | 265146 | 269344 | 1 | Standard |
| Kr | 83 | | ug/L | | | 48 | 48 | 19 | Standard |
| > In-1 | 115 | | ug/L | | | 7168 | 7066 | 1 | KED |
| Cd | 111 | 0.009 | ug/L | 0.000 | 4 | 3 | 5 | 0 | KED |
| Cd | 114 | 0.015 | ug/L | 0.006 | 39 | 3 | 10 | 27 | KED |
| > In | 115 | | ug/L | | | 374013 | 375608 | 1 | Standard |
| Ag | 107 | 0.005 | ug/L | 0.001 | 23 | 48 | 108 | 13 | Standard |
| Ba | 135 | 4.410 | ug/L | 0.027 | 0 | 24 | 13870 | 0 | Standard |
| Ba | 137 | 4.367 | ug/L | 0.070 | 1 | 29 | 24363 | 0 | Standard |
| > Tb | 159 | | ug/L | | | 624828 | 641801 | 1 | Standard |
| Pb | 208 | 0.018 | ug/L | 0.000 | 2 | 160 | 890 | 1 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23C0591-03**

Sample Dil Factor: **2**

Comments:

Sample Date/Time: **Saturday, April 08, 2023 03:38:58**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|-----------|------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30779 | 48678 | 4 | Standard |
| Cl | 37 | | ug/L | | | 4052820 | 4960445 | 4 | Standard |
| [> Sc | 45 | | ug/L | | | 457643 | 508885 | 0 | Standard |
| Cr | 52 | 0.745 | ug/L | 0.039 | 5 | 14350 | 28392 | 1 | Standard |
| Cr | 53 | 1.477 | ug/L | 0.030 | 2 | 118 | 2978 | 2 | Standard |
| Mn | 55 | 241.495 | ug/L | 3.145 | 1 | 638 | 5661974 | 1 | Standard |
| [> Ge | 72 | | ug/L | | | 26593 | 25832 | 0 | KED |
| Ni | 60 | 0.597 | ug/L | 0.024 | 4 | 24 | 609 | 3 | KED |
| Ni | 62 | 0.569 | ug/L | 0.045 | 7 | 4 | 95 | 6 | KED |
| Cu | 63 | 1.176 | ug/L | 0.056 | 4 | 39 | 3403 | 5 | KED |
| Cu | 65 | 1.170 | ug/L | 0.006 | 0 | 28 | 1680 | 0 | KED |
| Zn | 66 | 20.427 | ug/L | 0.667 | 3 | 24 | 7422 | 2 | KED |
| Zn | 67 | 20.046 | ug/L | 0.492 | 2 | 3 | 1212 | 2 | KED |
| As | 75 | 1.628 | ug/L | 0.034 | 2 | 6 | 313 | 2 | KED |
| Se | 78 | -0.154 | ug/L | 0.196 | 127 | 20 | 17 | 24 | KED |
| Y | 89 | | ug/L | | | 265146 | 278635 | 0 | Standard |
| Kr | 83 | | ug/L | | | 48 | 48 | 25 | Standard |
| [> In-1 | 115 | | ug/L | | | 7168 | 7040 | 2 | KED |
| Cd | 111 | 0.034 | ug/L | 0.022 | 64 | 3 | 10 | 41 | KED |
| Cd | 114 | 0.026 | ug/L | 0.013 | 49 | 3 | 16 | 41 | KED |
| [> In | 115 | | ug/L | | | 374013 | 371061 | 1 | Standard |
| Ag | 107 | 0.006 | ug/L | 0.001 | 20 | 48 | 121 | 11 | Standard |
| Ba | 135 | 21.840 | ug/L | 0.763 | 3 | 24 | 67741 | 2 | Standard |
| Ba | 137 | 21.848 | ug/L | 0.575 | 2 | 29 | 120276 | 1 | Standard |
| [> Tb | 159 | | ug/L | | | 624828 | 643850 | 1 | Standard |
| Pb | 208 | 0.095 | ug/L | 0.003 | 3 | 160 | 3960 | 2 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23C0591-01**

Sample Dil Factor: **2**

Comments:

Sample Date/Time: **Saturday, April 08, 2023 03:44:06**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|-----------|------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30779 | 61270 | 0 | Standard |
| Cl | 37 | | ug/L | | | 4052820 | 4466350 | 0 | Standard |
| [> Sc | 45 | | ug/L | | | 457643 | 515709 | 2 | Standard |
| Cr | 52 | 0.321 | ug/L | 0.026 | 8 | 14350 | 21589 | 0 | Standard |
| Cr | 53 | 0.407 | ug/L | 0.019 | 4 | 118 | 928 | 5 | Standard |
| Mn | 55 | 857.141 | ug/L | 33.578 | 3 | 638 | 20352061 | 2 | Standard |
| [> Ge | 72 | | ug/L | | | 26593 | 25982 | 1 | KED |
| Ni | 60 | 1.655 | ug/L | 0.149 | 9 | 24 | 1655 | 7 | KED |
| Ni | 62 | 1.691 | ug/L | 0.179 | 10 | 4 | 276 | 9 | KED |
| Cu | 63 | 0.563 | ug/L | 0.012 | 2 | 39 | 1657 | 3 | KED |
| Cu | 65 | 0.569 | ug/L | 0.043 | 7 | 28 | 835 | 6 | KED |
| Zn | 66 | 11.207 | ug/L | 0.140 | 1 | 24 | 4106 | 0 | KED |
| Zn | 67 | 12.354 | ug/L | 0.828 | 6 | 3 | 752 | 5 | KED |
| As | 75 | 2.013 | ug/L | 0.125 | 6 | 6 | 389 | 7 | KED |
| [Se | 78 | -0.023 | ug/L | 0.205 | 877 | 20 | 20 | 22 | KED |
| Y | 89 | | ug/L | | | 265146 | 277490 | 0 | Standard |
| Kr | 83 | | ug/L | | | 48 | 60 | 13 | Standard |
| [> In-1 | 115 | | ug/L | | | 7168 | 7211 | 1 | KED |
| Cd | 111 | 0.054 | ug/L | 0.009 | 17 | 3 | 15 | 12 | KED |
| Cd | 114 | 0.062 | ug/L | 0.010 | 16 | 3 | 35 | 13 | KED |
| [> In | 115 | | ug/L | | | 374013 | 365979 | 1 | Standard |
| Ag | 107 | 0.005 | ug/L | 0.000 | 8 | 48 | 110 | 5 | Standard |
| Ba | 135 | 21.638 | ug/L | 0.406 | 1 | 24 | 66211 | 0 | Standard |
| [Ba | 137 | 21.618 | ug/L | 0.363 | 1 | 29 | 117400 | 0 | Standard |
| [> Tb | 159 | | ug/L | | | 624828 | 647569 | 1 | Standard |
| [Pb | 208 | 0.360 | ug/L | 0.009 | 2 | 160 | 14590 | 1 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLF

Sample Dil Factor:

Comments:

Sample Date/Time: Saturday, April 08, 2023 03:48:45

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30779 | 32990 | 5 | Standard |
| Cl | 37 | | ug/L | | | 4052820 | 4340408 | 1 | Standard |
| [> Sc | 45 | | ug/L | | | 457643 | 461873 | 1 | Standard |
| Cr | 52 | -0.025 | ug/L | 0.007 | 26 | 14350 | 14098 | 1 | Standard |
| Cr | 53 | 0.046 | ug/L | 0.002 | 4 | 118 | 200 | 1 | Standard |
| Mn | 55 | 0.080 | ug/L | 0.009 | 11 | 638 | 2346 | 9 | Standard |
| [> Ge | 72 | | ug/L | | | 26593 | 25733 | 3 | KED |
| Ni | 60 | 0.002 | ug/L | 0.007 | 420 | 24 | 25 | 22 | KED |
| Ni | 62 | 0.029 | ug/L | 0.005 | 17 | 4 | 8 | 12 | KED |
| Cu | 63 | 0.005 | ug/L | 0.006 | 117 | 39 | 52 | 31 | KED |
| Cu | 65 | 0.003 | ug/L | 0.004 | 137 | 28 | 31 | 18 | KED |
| Zn | 66 | 0.004 | ug/L | 0.003 | 63 | 24 | 24 | 0 | KED |
| Zn | 67 | 0.001 | ug/L | 0.082 | 6049 | 3 | 3 | 132 | KED |
| As | 75 | 0.005 | ug/L | 0.004 | 84 | 6 | 7 | 6 | KED |
| Se | 78 | -0.225 | ug/L | 0.083 | 36 | 20 | 15 | 13 | KED |
| Y | 89 | | ug/L | | | 265146 | 256333 | 1 | Standard |
| Kr | 83 | | ug/L | | | 48 | 44 | 8 | Standard |
| [> In-1 | 115 | | ug/L | | | 7168 | 6934 | 2 | KED |
| Cd | 111 | -0.009 | ug/L | 0.000 | 3 | 3 | 1 | | KED |
| Cd | 114 | 0.003 | ug/L | 0.009 | 307 | 3 | 4 | 100 | KED |
| [> In | 115 | | ug/L | | | 374013 | 366567 | 0 | Standard |
| Ag | 107 | 0.002 | ug/L | 0.001 | 63 | 48 | 74 | 21 | Standard |
| Ba | 135 | 0.002 | ug/L | 0.003 | 129 | 24 | 31 | 28 | Standard |
| Ba | 137 | 0.005 | ug/L | 0.001 | 22 | 29 | 55 | 10 | Standard |
| [> Tb | 159 | | ug/L | | | 624828 | 616473 | 1 | Standard |
| Pb | 208 | 0.001 | ug/L | 0.000 | 12 | 160 | 213 | 3 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVF

Sample Dil Factor:

Comments:

Sample Date/Time: Saturday, April 08, 2023 03:53:30

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30779 | 32517 | 2 | Standard |
| Cl | 37 | | ug/L | | | 4052820 | 4402553 | 1 | Standard |
| [> Sc | 45 | | ug/L | | | 457643 | 482002 | 1 | Standard |
| Cr | 52 | 50.161 | ug/L | 0.682 | 1 | 14350 | 808046 | 1 | Standard |
| Cr | 53 | 50.466 | ug/L | 0.231 | 0 | 118 | 92212 | 1 | Standard |
| Mn | 55 | 51.009 | ug/L | 0.349 | 0 | 638 | 1133157 | 0 | Standard |
| [> Ge | 72 | | ug/L | | | 26593 | 26216 | 0 | KED |
| Ni | 60 | 48.517 | ug/L | 1.174 | 2 | 24 | 48331 | 1 | KED |
| Ni | 62 | 48.945 | ug/L | 0.938 | 1 | 4 | 7950 | 2 | KED |
| Cu | 63 | 50.082 | ug/L | 0.994 | 1 | 39 | 145451 | 2 | KED |
| Cu | 65 | 49.096 | ug/L | 0.557 | 1 | 28 | 70411 | 0 | KED |
| Zn | 66 | 50.199 | ug/L | 0.620 | 1 | 24 | 18478 | 0 | KED |
| Zn | 67 | 49.463 | ug/L | 1.392 | 2 | 3 | 3030 | 3 | KED |
| As | 75 | 49.168 | ug/L | 1.226 | 2 | 6 | 9422 | 1 | KED |
| [Se | 78 | 47.073 | ug/L | 1.874 | 3 | 20 | 1032 | 3 | KED |
| Y | 89 | | ug/L | | | 265146 | 274238 | 2 | Standard |
| Kr | 83 | | ug/L | | | 48 | 58 | 18 | Standard |
| [> In-1 | 115 | | ug/L | | | 7168 | 7133 | 1 | KED |
| Cd | 111 | 50.609 | ug/L | 0.663 | 1 | 3 | 10664 | 0 | KED |
| [Cd | 114 | 50.472 | ug/L | 0.915 | 1 | 3 | 26170 | 3 | KED |
| [> In | 115 | | ug/L | | | 374013 | 369383 | 0 | Standard |
| Ag | 107 | 50.638 | ug/L | 1.567 | 3 | 48 | 623378 | 2 | Standard |
| Ba | 135 | 50.672 | ug/L | 1.080 | 2 | 24 | 156473 | 1 | Standard |
| [Ba | 137 | 51.210 | ug/L | 0.455 | 0 | 29 | 280681 | 0 | Standard |
| [> Tb | 159 | | ug/L | | | 624828 | 644727 | 1 | Standard |
| [Pb | 208 | 51.023 | ug/L | 0.651 | 1 | 160 | 2037696 | 0 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBF

Sample Dil Factor:

Comments:

Sample Date/Time: Saturday, April 08, 2023 04:00:58

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 30779 | 32214 | 2 | Standard |
| Cl | 37 | | ug/L | | | 4052820 | 4285375 | 1 | Standard |
| [> Sc | 45 | | ug/L | | | 457643 | 460474 | 0 | Standard |
| Cr | 52 | -0.019 | ug/L | 0.019 | 103 | 14350 | 14153 | 1 | Standard |
| Cr | 53 | 0.024 | ug/L | 0.008 | 33 | 118 | 161 | 9 | Standard |
| Mn | 55 | 0.068 | ug/L | 0.001 | 1 | 638 | 2091 | 1 | Standard |
| [> Ge | 72 | | ug/L | | | 26593 | 25513 | 0 | KED |
| Ni | 60 | -0.006 | ug/L | 0.008 | 132 | 24 | 17 | 43 | KED |
| Ni | 62 | 0.017 | ug/L | 0.018 | 106 | 4 | 6 | 41 | KED |
| Cu | 63 | 0.001 | ug/L | 0.003 | 463 | 39 | 39 | 18 | KED |
| Cu | 65 | -0.001 | ug/L | 0.009 | 871 | 28 | 26 | 48 | KED |
| Zn | 66 | -0.008 | ug/L | 0.025 | 311 | 24 | 20 | 44 | KED |
| Zn | 67 | -0.029 | ug/L | 0.032 | 108 | 3 | 1 | 100 | KED |
| As | 75 | -0.008 | ug/L | 0.008 | 101 | 6 | 5 | 27 | KED |
| Se | 78 | -0.203 | ug/L | 0.110 | 54 | 20 | 15 | 15 | KED |
| Y | 89 | | ug/L | | | 265146 | 255136 | 2 | Standard |
| Kr | 83 | | ug/L | | | 48 | 41 | 18 | Standard |
| [> In-1 | 115 | | ug/L | | | 7168 | 7171 | 1 | KED |
| Cd | 111 | 0.000 | ug/L | 0.005 | 41016 | 3 | 3 | 25 | KED |
| Cd | 114 | 0.009 | ug/L | 0.008 | 88 | 3 | 7 | 51 | KED |
| [> In | 115 | | ug/L | | | 374013 | 364732 | 1 | Standard |
| Ag | 107 | 0.005 | ug/L | 0.001 | 27 | 48 | 113 | 15 | Standard |
| Ba | 135 | -0.002 | ug/L | 0.001 | 53 | 24 | 18 | 15 | Standard |
| Ba | 137 | 0.001 | ug/L | 0.001 | 99 | 29 | 35 | 17 | Standard |
| [> Tb | 159 | | ug/L | | | 624828 | 623703 | 0 | Standard |
| Pb | 208 | -0.002 | ug/L | 0.000 | 4 | 160 | 90 | 3 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1

Sample Dil Factor:

Comments:

Sample Date/Time: Saturday, April 08, 2023 04:05:42

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | | 33004 | 1 | Standard |
| Cl | 37 | | ug/L | | | | 4319075 | 0 | Standard |
| > Sc | 45 | | ug/L | | | | 460811 | 4 | Standard |
| Cr | 52 | | ug/L | | | | 14116 | 3 | Standard |
| Cr | 53 | | ug/L | | | | 169 | 4 | Standard |
| Mn | 55 | | ug/L | | | | 2166 | 1 | Standard |
| > Ge | 72 | | ug/L | | | | 25853 | 1 | KED |
| Ni | 60 | | ug/L | | | | 24 | 25 | KED |
| Ni | 62 | | ug/L | | | | 9 | 40 | KED |
| Cu | 63 | | ug/L | | | | 49 | 13 | KED |
| Cu | 65 | | ug/L | | | | 27 | 49 | KED |
| Zn | 66 | | ug/L | | | | 20 | 18 | KED |
| Zn | 67 | | ug/L | | | | 4 | 24 | KED |
| As | 75 | | ug/L | | | | 6 | 53 | KED |
| Se | 78 | | ug/L | | | | 19 | 9 | KED |
| Y | 89 | | ug/L | | | | 261932 | 2 | Standard |
| Kr | 83 | | ug/L | | | | 49 | 23 | Standard |
| > In-1 | 115 | | ug/L | | | | 7009 | 1 | KED |
| Cd | 111 | | ug/L | | | | 4 | 49 | KED |
| Cd | 114 | | ug/L | | | | 4 | 67 | KED |
| > In | 115 | | ug/L | | | | 367469 | 1 | Standard |
| Ag | 107 | | ug/L | | | | 86 | 7 | Standard |
| Ba | 135 | | ug/L | | | | 23 | 12 | Standard |
| Ba | 137 | | ug/L | | | | 37 | 28 | Standard |
| > Tb | 159 | | ug/L | | | | 619766 | 1 | Standard |
| Pb | 208 | | ug/L | | | | 178 | 8 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVG

Sample Dil Factor:

Comments:

Sample Date/Time: Saturday, April 08, 2023 04:10:27

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 33004 | 32782 | 2 | Standard |
| Cl | 37 | | ug/L | | | 4319075 | 4360848 | 2 | Standard |
| [> Sc | 45 | | ug/L | | | 460811 | 473915 | 1 | Standard |
| Cr | 52 | 51.153 | ug/L | 0.689 | 1 | 14116 | 809544 | 1 | Standard |
| Cr | 53 | 51.603 | ug/L | 1.299 | 2 | 169 | 92752 | 3 | Standard |
| Mn | 55 | 51.017 | ug/L | 1.808 | 3 | 2166 | 1115889 | 3 | Standard |
| [> Ge | 72 | | ug/L | | | 25853 | 26055 | 2 | KED |
| Ni | 60 | 49.670 | ug/L | 0.813 | 1 | 24 | 49174 | 1 | KED |
| Ni | 62 | 49.225 | ug/L | 1.447 | 2 | 9 | 7948 | 1 | KED |
| Cu | 63 | 49.591 | ug/L | 1.159 | 2 | 49 | 143094 | 0 | KED |
| Cu | 65 | 49.880 | ug/L | 2.041 | 4 | 27 | 71054 | 1 | KED |
| Zn | 66 | 50.574 | ug/L | 1.053 | 2 | 20 | 18495 | 0 | KED |
| Zn | 67 | 50.246 | ug/L | 2.763 | 5 | 4 | 3057 | 3 | KED |
| As | 75 | 50.182 | ug/L | 0.917 | 1 | 6 | 9556 | 0 | KED |
| [Se | 78 | 48.336 | ug/L | 1.020 | 2 | 19 | 1052 | 1 | KED |
| Y | 89 | | ug/L | | | 261932 | 275085 | 3 | Standard |
| Kr | 83 | | ug/L | | | 49 | 45 | 24 | Standard |
| [> In-1 | 115 | | ug/L | | | 7009 | 7140 | 2 | KED |
| Cd | 111 | 51.327 | ug/L | 2.083 | 4 | 4 | 10820 | 1 | KED |
| Cd | 114 | 50.634 | ug/L | 1.051 | 2 | 4 | 26269 | 0 | KED |
| [> In | 115 | | ug/L | | | 367469 | 367519 | 0 | Standard |
| Ag | 107 | 50.798 | ug/L | 0.518 | 1 | 86 | 622337 | 0 | Standard |
| Ba | 135 | 52.243 | ug/L | 1.323 | 2 | 23 | 160533 | 2 | Standard |
| [Ba | 137 | 51.698 | ug/L | 0.504 | 0 | 37 | 281947 | 1 | Standard |
| [> Tb | 159 | | ug/L | | | 619766 | 638912 | 0 | Standard |
| [Pb | 208 | 51.639 | ug/L | 0.927 | 1 | 178 | 2043728 | 1 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBG

Sample Dil Factor:

Comments:

Sample Date/Time: Saturday, April 08, 2023 04:17:55

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|---------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 33004 | 31747 | 0 | Standard |
| Cl | 37 | | ug/L | | | 4319075 | 4268227 | 1 | Standard |
| [> Sc | 45 | | ug/L | | | 460811 | 459880 | 0 | Standard |
| Cr | 52 | -0.002 | ug/L | 0.010 | 459 | 14116 | 14054 | 0 | Standard |
| Cr | 53 | -0.019 | ug/L | 0.009 | 45 | 169 | 135 | 10 | Standard |
| Mn | 55 | -0.007 | ug/L | 0.003 | 38 | 2166 | 2007 | 3 | Standard |
| [> Ge | 72 | | ug/L | | | 25853 | 25283 | 2 | KED |
| Ni | 60 | -0.007 | ug/L | 0.004 | 55 | 24 | 17 | 19 | KED |
| Ni | 62 | -0.019 | ug/L | 0.006 | 32 | 9 | 6 | 17 | KED |
| Cu | 63 | -0.002 | ug/L | 0.003 | 123 | 49 | 42 | 14 | KED |
| Cu | 65 | -0.005 | ug/L | 0.007 | 140 | 27 | 20 | 47 | KED |
| Zn | 66 | -0.013 | ug/L | 0.011 | 85 | 20 | 15 | 24 | KED |
| Zn | 67 | -0.009 | ug/L | 0.001 | 16 | 4 | 3 | 0 | KED |
| As | 75 | -0.000 | ug/L | 0.011 | 39303 | 6 | 6 | 29 | KED |
| Se | 78 | <u>-0.265</u> | ug/L | 0.151 | 56 | 19 | 13 | 21 | KED |
| Y | 89 | | ug/L | | | 261932 | 254481 | 0 | Standard |
| Kr | 83 | | ug/L | | | 49 | 38 | 5 | Standard |
| [> In-1 | 115 | | ug/L | | | 7009 | 6987 | 2 | KED |
| Cd | 111 | 0.003 | ug/L | 0.003 | 86 | 4 | 5 | 10 | KED |
| Cd | 114 | -0.002 | ug/L | 0.006 | 236 | 4 | 3 | 93 | KED |
| [> In | 115 | | ug/L | | | 367469 | 360571 | 1 | Standard |
| Ag | 107 | 0.001 | ug/L | 0.001 | 44 | 86 | 102 | 8 | Standard |
| Ba | 135 | -0.001 | ug/L | 0.003 | 257 | 23 | 19 | 52 | Standard |
| Ba | 137 | 0.001 | ug/L | 0.001 | 137 | 37 | 41 | 14 | Standard |
| [> Tb | 159 | | ug/L | | | 619766 | 619374 | 1 | Standard |
| Pb | 208 | -0.002 | ug/L | 0.000 | 7 | 178 | 93 | 5 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23C0540-05**

Sample Dil Factor:

Comments:

Sample Date/Time: **Saturday, April 08, 2023 04:22:40**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 33004 | 41923 | 3 | Standard |
| Cl | 37 | | ug/L | | | 4319075 | 4470454 | 0 | Standard |
| Sc | 45 | | ug/L | | | 460811 | 614291 | 1 | Standard |
| Cr | 52 | -0.051 | ug/L | 0.020 | 38 | 14116 | 17792 | 1 | Standard |
| Cr | 53 | 0.425 | ug/L | 0.027 | 6 | 169 | 1214 | 4 | Standard |
| Mn | 55 | 196.088 | ug/L | 0.763 | 0 | 2166 | 5551685 | 1 | Standard |
| Ge | 72 | | ug/L | | | 25853 | 26529 | 0 | KED |
| Ni | 60 | 92.287 | ug/L | 0.482 | 0 | 24 | 93018 | 0 | KED |
| Ni | 62 | 92.367 | ug/L | 1.867 | 2 | 9 | 15184 | 2 | KED |
| Cu | 63 | 5.120 | ug/L | 0.106 | 2 | 49 | 15093 | 2 | KED |
| Cu | 65 | 5.207 | ug/L | 0.049 | 0 | 27 | 7582 | 0 | KED |
| Zn | 66 | 27.331 | ug/L | 0.352 | 1 | 20 | 10190 | 1 | KED |
| Zn | 67 | 24.278 | ug/L | 0.841 | 3 | 4 | 1507 | 2 | KED |
| As | 75 | 0.097 | ug/L | 0.031 | 31 | 6 | 25 | 23 | KED |
| Se | 78 | 0.030 | ug/L | 0.156 | 523 | 19 | 20 | 16 | KED |
| Y | 89 | | ug/L | | | 261932 | 333991 | 2 | Standard |
| Kr | 83 | | ug/L | | | 49 | 48 | 21 | Standard |
| In-1 | 115 | | ug/L | | | 7009 | 7158 | 1 | KED |
| Cd | 111 | 0.087 | ug/L | 0.020 | 22 | 4 | 22 | 19 | KED |
| Cd | 114 | 0.091 | ug/L | 0.012 | 13 | 4 | 51 | 11 | KED |
| In | 115 | | ug/L | | | 367469 | 366931 | 1 | Standard |
| Ag | 107 | 0.002 | ug/L | 0.001 | 27 | 86 | 114 | 5 | Standard |
| Ba | 135 | 2.744 | ug/L | 0.051 | 1 | 23 | 8438 | 0 | Standard |
| Ba | 137 | 2.751 | ug/L | 0.017 | 0 | 37 | 15015 | 1 | Standard |
| Tb | 159 | | ug/L | | | 619766 | 640493 | 0 | Standard |
| Pb | 208 | 0.026 | ug/L | 0.000 | 1 | 178 | 1231 | 2 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23C0540-04RE1**

Sample Dil Factor: **10**

Comments:

Sample Date/Time: **Saturday, April 08, 2023 04:27:18**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 33004 | 37663 | 2 | Standard |
| Cl | 37 | | ug/L | | | 4319075 | 4101745 | 0 | Standard |
| [> Sc | 45 | | ug/L | | | 460811 | 513678 | 0 | Standard |
| Cr | 52 | -0.011 | ug/L | 0.012 | 104 | 14116 | 15546 | 1 | Standard |
| Cr | 53 | 0.253 | ug/L | 0.012 | 4 | 169 | 680 | 2 | Standard |
| Mn | 55 | 22.177 | ug/L | 0.368 | 1 | 2166 | 527155 | 1 | Standard |
| [> Ge | 72 | | ug/L | | | 25853 | 27295 | 1 | KED |
| Ni | 60 | 65.646 | ug/L | 1.126 | 1 | 24 | 68085 | 2 | KED |
| Ni | 62 | 65.209 | ug/L | 1.570 | 2 | 9 | 11029 | 1 | KED |
| Cu | 63 | 0.380 | ug/L | 0.024 | 6 | 49 | 1201 | 4 | KED |
| Cu | 65 | 0.370 | ug/L | 0.003 | 0 | 27 | 580 | 1 | KED |
| Zn | 66 | 0.853 | ug/L | 0.108 | 12 | 20 | 348 | 11 | KED |
| Zn | 67 | 1.053 | ug/L | 0.019 | 1 | 4 | 71 | 3 | KED |
| As | 75 | 0.036 | ug/L | 0.003 | 9 | 6 | 14 | 3 | KED |
| Se | 78 | -0.216 | ug/L | 0.068 | 31 | 19 | 15 | 9 | KED |
| Y | 89 | | ug/L | | | 261932 | 279470 | 2 | Standard |
| Kr | 83 | | ug/L | | | 49 | 53 | 8 | Standard |
| [> In-1 | 115 | | ug/L | | | 7009 | 7613 | 1 | KED |
| Cd | 111 | -0.005 | ug/L | 0.004 | 96 | 4 | 3 | 25 | KED |
| Cd | 114 | 0.006 | ug/L | 0.005 | 87 | 4 | 8 | 35 | KED |
| [> In | 115 | | ug/L | | | 367469 | 373477 | 1 | Standard |
| Ag | 107 | -0.002 | ug/L | 0.001 | 45 | 86 | 62 | 16 | Standard |
| Ba | 135 | 0.537 | ug/L | 0.004 | 0 | 23 | 1699 | 1 | Standard |
| Ba | 137 | 0.555 | ug/L | 0.020 | 3 | 37 | 3112 | 2 | Standard |
| [> Tb | 159 | | ug/L | | | 619766 | 639124 | 0 | Standard |
| Pb | 208 | 0.010 | ug/L | 0.001 | 5 | 178 | 590 | 4 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23C0540-02RE1**

Sample Dil Factor: **100**

Comments:

Sample Date/Time: **Saturday, April 08, 2023 04:32:02**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 33004 | 36347 | 3 | Standard |
| Cl | 37 | | ug/L | | | 4319075 | 4026516 | 1 | Standard |
| [> Sc | 45 | | ug/L | | | 460811 | 487723 | 1 | Standard |
| Cr | 52 | 0.178 | ug/L | 0.026 | 14 | 14116 | 17785 | 1 | Standard |
| Cr | 53 | 0.224 | ug/L | 0.011 | 4 | 169 | 593 | 4 | Standard |
| Mn | 55 | 3.017 | ug/L | 0.090 | 2 | 2166 | 70066 | 1 | Standard |
| [> Ge | 72 | | ug/L | | | 25853 | 26881 | 1 | KED |
| Ni | 60 | 82.656 | ug/L | 3.245 | 3 | 24 | 84403 | 3 | KED |
| Ni | 62 | 84.593 | ug/L | 2.269 | 2 | 9 | 14088 | 1 | KED |
| Cu | 63 | 0.318 | ug/L | 0.015 | 4 | 49 | 998 | 4 | KED |
| Cu | 65 | 0.287 | ug/L | 0.007 | 2 | 27 | 449 | 1 | KED |
| Zn | 66 | 1.539 | ug/L | 0.078 | 5 | 20 | 601 | 3 | KED |
| Zn | 67 | 1.537 | ug/L | 0.386 | 25 | 4 | 100 | 23 | KED |
| As | 75 | -0.009 | ug/L | 0.005 | 57 | 6 | 5 | 19 | KED |
| Se | 78 | -0.112 | ug/L | 0.103 | 91 | 19 | 17 | 12 | KED |
| Y | 89 | | ug/L | | | 261932 | 274379 | 1 | Standard |
| Kr | 83 | | ug/L | | | 49 | 50 | 12 | Standard |
| [> In-1 | 115 | | ug/L | | | 7009 | 7510 | 0 | KED |
| Cd | 111 | 0.004 | ug/L | 0.012 | 264 | 4 | 5 | 44 | KED |
| Cd | 114 | 0.010 | ug/L | 0.017 | 178 | 4 | 10 | 95 | KED |
| [> In | 115 | | ug/L | | | 367469 | 367076 | 1 | Standard |
| Ag | 107 | -0.002 | ug/L | 0.001 | 60 | 86 | 65 | 18 | Standard |
| Ba | 135 | 0.119 | ug/L | 0.002 | 1 | 23 | 388 | 2 | Standard |
| Ba | 137 | 0.130 | ug/L | 0.008 | 5 | 37 | 745 | 3 | Standard |
| [> Tb | 159 | | ug/L | | | 619766 | 622227 | 1 | Standard |
| Pb | 208 | 0.000 | ug/L | 0.001 | 562 | 178 | 185 | 19 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23C0540-19RE1**

Sample Dil Factor: **100**

Comments:

Sample Date/Time: **Saturday, April 08, 2023 04:36:46**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|---------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 33004 | 36739 | 1 | Standard |
| Cl | 37 | | ug/L | | | 4319075 | 4040779 | 1 | Standard |
| > Sc | 45 | | ug/L | | | 460811 | 473775 | 1 | Standard |
| Cr | 52 | 0.007 | ug/L | 0.023 | 335 | 14116 | 14618 | 1 | Standard |
| Cr | 53 | 0.045 | ug/L | 0.001 | 2 | 169 | 254 | 0 | Standard |
| Mn | 55 | 3.327 | ug/L | 0.075 | 2 | 2166 | 74833 | 2 | Standard |
| > Ge | 72 | | ug/L | | | 25853 | 26141 | 3 | KED |
| Ni | 60 | 91.807 | ug/L | 4.114 | 4 | 24 | 91094 | 1 | KED |
| Ni | 62 | 90.544 | ug/L | 4.069 | 4 | 9 | 14652 | 1 | KED |
| Cu | 63 | 0.192 | ug/L | 0.007 | 3 | 49 | 605 | 2 | KED |
| Cu | 65 | 0.198 | ug/L | 0.008 | 3 | 27 | 311 | 1 | KED |
| Zn | 66 | 0.614 | ug/L | 0.047 | 7 | 20 | 246 | 6 | KED |
| Zn | 67 | 0.587 | ug/L | 0.237 | 40 | 4 | 40 | 33 | KED |
| As | 75 | -0.004 | ug/L | 0.008 | 229 | 6 | 6 | 24 | KED |
| Se | 78 | -0.112 | ug/L | 0.063 | 56 | 19 | 17 | 9 | KED |
| Y | 89 | | ug/L | | | 261932 | 277435 | 1 | Standard |
| Kr | 83 | | ug/L | | | 49 | 41 | 13 | Standard |
| > In-1 | 115 | | ug/L | | | 7009 | 7331 | 1 | KED |
| Cd | 111 | 0.003 | ug/L | 0.009 | 266 | 4 | 5 | 36 | KED |
| Cd | 114 | -0.005 | ug/L | 0.000 | 2 | 4 | 1 | 2 | KED |
| > In | 115 | | ug/L | | | 367469 | 376919 | 1 | Standard |
| Ag | 107 | -0.002 | ug/L | 0.001 | 68 | 86 | 67 | 22 | Standard |
| Ba | 135 | 0.062 | ug/L | 0.004 | 6 | 23 | 218 | 5 | Standard |
| Ba | 137 | 0.069 | ug/L | 0.005 | 6 | 37 | 426 | 5 | Standard |
| > Tb | 159 | | ug/L | | | 619766 | 629393 | 1 | Standard |
| Pb | 208 | 0.001 | ug/L | 0.001 | 60 | 178 | 233 | 14 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23C0540-03RE1**

Sample Dil Factor: **100**

Comments:

Sample Date/Time: **Saturday, April 08, 2023 04:41:30**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 33004 | 36667 | 1 | Standard |
| Cl | 37 | | ug/L | | | 4319075 | 4049122 | 1 | Standard |
| > Sc | 45 | | ug/L | | | 460811 | 481995 | 1 | Standard |
| Cr | 52 | 0.027 | ug/L | 0.024 | 88 | 14116 | 15194 | 3 | Standard |
| Cr | 53 | 0.043 | ug/L | 0.003 | 6 | 169 | 256 | 2 | Standard |
| Mn | 55 | 3.142 | ug/L | 0.079 | 2 | 2166 | 72038 | 3 | Standard |
| > Ge | 72 | | ug/L | | | 25853 | 26383 | 0 | KED |
| Ni | 60 | 90.108 | ug/L | 2.293 | 2 | 24 | 90323 | 2 | KED |
| Ni | 62 | 91.352 | ug/L | 2.502 | 2 | 9 | 14934 | 2 | KED |
| Cu | 63 | 0.235 | ug/L | 0.017 | 7 | 49 | 738 | 6 | KED |
| Cu | 65 | 0.245 | ug/L | 0.041 | 16 | 27 | 381 | 15 | KED |
| Zn | 66 | 0.660 | ug/L | 0.095 | 14 | 20 | 265 | 13 | KED |
| Zn | 67 | 0.483 | ug/L | 0.295 | 61 | 4 | 34 | 52 | KED |
| As | 75 | -0.008 | ug/L | 0.002 | 30 | 6 | 5 | 9 | KED |
| Se | 78 | -0.214 | ug/L | 0.185 | 86 | 19 | 15 | 26 | KED |
| Y | 89 | | ug/L | | | 261932 | 274168 | 4 | Standard |
| Kr | 83 | | ug/L | | | 49 | 63 | 11 | Standard |
| > In-1 | 115 | | ug/L | | | 7009 | 7115 | 5 | KED |
| Cd | 111 | 0.007 | ug/L | 0.015 | 204 | 4 | 6 | 50 | KED |
| Cd | 114 | -0.003 | ug/L | 0.002 | 78 | 4 | 3 | 37 | KED |
| > In | 115 | | ug/L | | | 367469 | 372725 | 1 | Standard |
| Ag | 107 | -0.002 | ug/L | 0.001 | 56 | 86 | 68 | 14 | Standard |
| Ba | 135 | 0.076 | ug/L | 0.012 | 15 | 23 | 260 | 13 | Standard |
| Ba | 137 | 0.070 | ug/L | 0.005 | 7 | 37 | 423 | 5 | Standard |
| > Tb | 159 | | ug/L | | | 619766 | 635641 | 2 | Standard |
| Pb | 208 | 0.003 | ug/L | 0.000 | 11 | 178 | 312 | 5 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **BLD0102-DUP3**

Sample Dil Factor: **100**

Comments:

Sample Date/Time: **Saturday, April 08, 2023 04:46:14**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|---------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 33004 | 36185 | 2 | Standard |
| Cl | 37 | | ug/L | | | 4319075 | 4017075 | 1 | Standard |
| [> Sc | 45 | | ug/L | | | 460811 | 475756 | 1 | Standard |
| Cr | 52 | -0.001 | ug/L | 0.021 | 1936 | 14116 | 14554 | 1 | Standard |
| Cr | 53 | 0.031 | ug/L | 0.008 | 25 | 169 | 231 | 6 | Standard |
| Mn | 55 | 2.999 | ug/L | 0.074 | 2 | 2166 | 67951 | 2 | Standard |
| [> Ge | 72 | | ug/L | | | 25853 | 26360 | 2 | KED |
| Ni | 60 | 86.847 | ug/L | 1.142 | 1 | 24 | 86962 | 1 | KED |
| Ni | 62 | 86.357 | ug/L | 1.949 | 2 | 9 | 14100 | 0 | KED |
| Cu | 63 | 0.225 | ug/L | 0.017 | 7 | 49 | 705 | 5 | KED |
| Cu | 65 | 0.221 | ug/L | 0.019 | 8 | 27 | 345 | 5 | KED |
| Zn | 66 | 0.563 | ug/L | 0.046 | 8 | 20 | 229 | 5 | KED |
| Zn | 67 | 0.536 | ug/L | 0.063 | 11 | 4 | 37 | 7 | KED |
| As | 75 | 0.008 | ug/L | 0.006 | 71 | 6 | 8 | 11 | KED |
| Se | 78 | -0.234 | ug/L | 0.122 | 51 | 19 | 14 | 16 | KED |
| Y | 89 | | ug/L | | | 261932 | 271424 | 0 | Standard |
| Kr | 83 | | ug/L | | | 49 | 40 | 16 | Standard |
| [> In-1 | 115 | | ug/L | | | 7009 | 7171 | 1 | KED |
| Cd | 111 | -0.003 | ug/L | 0.005 | 134 | 4 | 3 | 25 | KED |
| Cd | 114 | 0.001 | ug/L | 0.002 | 215 | 4 | 4 | 21 | KED |
| [> In | 115 | | ug/L | | | 367469 | 367357 | 0 | Standard |
| Ag | 107 | -0.002 | ug/L | 0.001 | 30 | 86 | 63 | 10 | Standard |
| Ba | 135 | 0.071 | ug/L | 0.011 | 15 | 23 | 241 | 13 | Standard |
| Ba | 137 | 0.066 | ug/L | 0.001 | 1 | 37 | 398 | 1 | Standard |
| [> Tb | 159 | | ug/L | | | 619766 | 626814 | 2 | Standard |
| Pb | 208 | 0.002 | ug/L | 0.000 | 22 | 178 | 255 | 4 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **BLD0102-MS3**

Sample Dil Factor: **100**

Comments:

Sample Date/Time: **Saturday, April 08, 2023 04:50:58**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------------|------|---------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 33004 | 36866 | 0 | Standard |
| Cl | 37 | | ug/L | | | 4319075 | 4003855 | 3 | Standard |
| [> Sc | 45 | | ug/L | | | 460811 | 472439 | 1 | Standard |
| Cr | 52 | 0.286 | ug/L | 0.016 | 5 | 14116 | 18903 | 2 | Standard |
| Cr | 53 | 0.306 | ug/L | 0.014 | 4 | 169 | 720 | 4 | Standard |
| Mn | 55 | 3.379 | ug/L | 0.051 | 1 | 2166 | 75753 | 1 | Standard |
| [> Ge | 72 | | ug/L | | | 25853 | 25959 | 2 | KED |
| Ni STL | 60 | 90.648 | ug/L | 1.149 | 1 | 24 | 89421 | 3 | KED |
| Ni | 62 | 90.586 | ug/L | 2.265 | 2 | 9 | 14571 | 3 | KED |
| Cu | 63 | 0.527 | ug/L | 0.019 | 3 | 49 | 1564 | 3 | KED |
| Cu | 65 | 0.508 | ug/L | 0.028 | 5 | 27 | 747 | 4 | KED |
| Zn | 66 | 1.532 | ug/L | 0.079 | 5 | 20 | 578 | 3 | KED |
| Zn | 67 | 1.397 | ug/L | 0.223 | 15 | 4 | 88 | 12 | KED |
| As | 75 | 0.268 | ug/L | 0.021 | 7 | 6 | 57 | 8 | KED |
| Se | 78 | 0.738 | ug/L | 0.043 | 5 | 19 | 35 | 4 | KED |
| Y | 89 | | ug/L | | | 261932 | 268181 | 1 | Standard |
| Kr | 83 | | ug/L | | | 49 | 41 | 14 | Standard |
| [> In-1 | 115 | | ug/L | | | 7009 | 7167 | 1 | KED |
| Cd | 111 | 0.255 | ug/L | 0.043 | 16 | 4 | 58 | 13 | KED |
| Cd | 114 | 0.278 | ug/L | 0.018 | 6 | 4 | 149 | 4 | KED |
| [> In | 115 | | ug/L | | | 367469 | 370778 | 2 | Standard |
| Ag | 107 | 0.278 | ug/L | 0.004 | 1 | 86 | 3522 | 1 | Standard |
| Ba | 135 | 0.372 | ug/L | 0.020 | 5 | 23 | 1174 | 3 | Standard |
| Ba | 137 | 0.353 | ug/L | 0.014 | 4 | 37 | 1976 | 2 | Standard |
| [> Tb | 159 | | ug/L | | | 619766 | 630522 | 1 | Standard |
| Pb | 208 | 0.293 | ug/L | 0.002 | 0 | 178 | 11632 | 1 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **BLD0102-MSD3**

Sample Dil Factor: **100**

Comments:

Sample Date/Time: **Saturday, April 08, 2023 04:55:36**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------------|------|---------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 33004 | 36586 | 4 | Standard |
| Cl | 37 | | ug/L | | | 4319075 | 4024918 | 1 | Standard |
| [> Sc | 45 | | ug/L | | | 460811 | 470193 | 1 | Standard |
| Cr | 52 | 0.318 | ug/L | 0.011 | 3 | 14116 | 19304 | 0 | Standard |
| Cr | 53 | 0.318 | ug/L | 0.008 | 2 | 169 | 738 | 1 | Standard |
| Mn | 55 | 3.404 | ug/L | 0.097 | 2 | 2166 | 75926 | 2 | Standard |
| [> Ge | 72 | | ug/L | | | 25853 | 25434 | 3 | KED |
| Ni STL | 60 | 89.149 | ug/L | 1.403 | 1 | 24 | 86121 | 1 | KED |
| Ni | 62 | 90.481 | ug/L | 3.327 | 3 | 9 | 14254 | 3 | KED |
| Cu | 63 | 0.514 | ug/L | 0.016 | 3 | 49 | 1498 | 5 | KED |
| Cu | 65 | 0.505 | ug/L | 0.018 | 3 | 27 | 729 | 5 | KED |
| Zn | 66 | 1.625 | ug/L | 0.082 | 5 | 20 | 600 | 5 | KED |
| Zn | 67 | 1.209 | ug/L | 0.057 | 4 | 4 | 76 | 7 | KED |
| As | 75 | 0.259 | ug/L | 0.023 | 8 | 6 | 54 | 4 | KED |
| Se | 78 | 0.828 | ug/L | 0.338 | 40 | 19 | 36 | 16 | KED |
| Y | 89 | | ug/L | | | 261932 | 271213 | 1 | Standard |
| Kr | 83 | | ug/L | | | 49 | 40 | 25 | Standard |
| [> In-1 | 115 | | ug/L | | | 7009 | 7293 | 2 | KED |
| Cd | 111 | 0.277 | ug/L | 0.029 | 10 | 4 | 64 | 11 | KED |
| Cd | 114 | 0.327 | ug/L | 0.053 | 16 | 4 | 178 | 18 | KED |
| [> In | 115 | | ug/L | | | 367469 | 374126 | 3 | Standard |
| Ag | 107 | 0.256 | ug/L | 0.012 | 4 | 86 | 3273 | 3 | Standard |
| Ba | 135 | 0.346 | ug/L | 0.017 | 4 | 23 | 1104 | 3 | Standard |
| Ba | 137 | 0.345 | ug/L | 0.020 | 5 | 37 | 1951 | 2 | Standard |
| [> Tb | 159 | | ug/L | | | 619766 | 630786 | 0 | Standard |
| Pb | 208 | 0.288 | ug/L | 0.005 | 1 | 178 | 11433 | 1 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23C0540-04**

Sample Dil Factor:

Comments:

Sample Date/Time: **Saturday, April 08, 2023 05:00:44**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 33004 | 51116 | 1 | Standard |
| Cl | 37 | | ug/L | | | 4319075 | 4825591 | 0 | Standard |
| Sc | 45 | | ug/L | | | 460811 | 646750 | 0 | Standard |
| Cr | 52 | 0.164 | ug/L | 0.017 | 10 | 14116 | 23298 | 1 | Standard |
| Cr | 53 | 1.522 | ug/L | 0.019 | 1 | 169 | 3965 | 1 | Standard |
| Mn | 55 | 173.345 | ug/L | 2.408 | 1 | 2166 | 5167081 | 0 | Standard |
| Ge | 72 | | ug/L | | | 25853 | 25659 | 1 | KED |
| Ni | 60 | 633.121 | ug/L | 22.346 | 3 | 24 | 616890 | 2 | KED |
| Ni | 62 | 650.090 | ug/L | 8.706 | 1 | 9 | 103292 | 0 | KED |
| Cu | 63 | 3.667 | ug/L | 0.152 | 4 | 49 | 10468 | 3 | KED |
| Cu | 65 | 3.667 | ug/L | 0.060 | 1 | 27 | 5172 | 1 | KED |
| Zn | 66 | 7.365 | ug/L | 0.339 | 4 | 20 | 2670 | 3 | KED |
| Zn | 67 | 7.308 | ug/L | 0.828 | 11 | 4 | 441 | 10 | KED |
| As | 75 | 0.328 | ug/L | 0.007 | 2 | 6 | 68 | 1 | KED |
| Se | 78 | -0.110 | ug/L | 0.095 | 86 | 19 | 17 | 13 | KED |
| Y | 89 | | ug/L | | | 261932 | 286500 | 1 | Standard |
| Kr | 83 | | ug/L | | | 49 | 44 | 6 | Standard |
| In-1 | 115 | | ug/L | | | 7009 | 7060 | 0 | KED |
| Cd | 111 | 0.033 | ug/L | 0.032 | 96 | 4 | 11 | 58 | KED |
| Cd | 114 | 0.025 | ug/L | 0.014 | 57 | 4 | 17 | 42 | KED |
| In | 115 | | ug/L | | | 367469 | 355694 | 2 | Standard |
| Ag | 107 | -0.001 | ug/L | 0.001 | 98 | 86 | 67 | 21 | Standard |
| Ba | 135 | 5.589 | ug/L | 0.197 | 3 | 23 | 16635 | 2 | Standard |
| Ba | 137 | 5.645 | ug/L | 0.084 | 1 | 37 | 29822 | 0 | Standard |
| Tb | 159 | | ug/L | | | 619766 | 628451 | 0 | Standard |
| Pb | 208 | 0.112 | ug/L | 0.001 | 0 | 178 | 4559 | 0 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLH

Sample Dil Factor:

Comments:

Sample Date/Time: Saturday, April 08, 2023 05:05:53

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 33004 | 34075 | 1 | Standard |
| Cl | 37 | | ug/L | | | 4319075 | 4063507 | 0 | Standard |
| [> Sc | 45 | | ug/L | | | 460811 | 461242 | 1 | Standard |
| Cr | 52 | 0.023 | ug/L | 0.036 | 154 | 14116 | 14476 | 2 | Standard |
| Cr | 53 | 0.053 | ug/L | 0.011 | 21 | 169 | 261 | 6 | Standard |
| Mn | 55 | -0.016 | ug/L | 0.001 | 7 | 2166 | 1824 | 0 | Standard |
| [> Ge | 72 | | ug/L | | | 25853 | 24995 | 4 | KED |
| Ni | 60 | 0.003 | ug/L | 0.008 | 254 | 24 | 26 | 25 | KED |
| Ni | 62 | -0.002 | ug/L | 0.025 | 1181 | 9 | 8 | 44 | KED |
| Cu | 63 | 0.003 | ug/L | 0.002 | 62 | 49 | 56 | 5 | KED |
| Cu | 65 | -0.001 | ug/L | 0.000 | 55 | 27 | 25 | 4 | KED |
| Zn | 66 | 0.034 | ug/L | 0.006 | 18 | 20 | 32 | 10 | KED |
| Zn | 67 | -0.009 | ug/L | 0.030 | 320 | 4 | 3 | 50 | KED |
| As | 75 | -0.002 | ug/L | 0.007 | 347 | 6 | 6 | 19 | KED |
| Se | 78 | -0.074 | ug/L | 0.105 | 143 | 19 | 17 | 9 | KED |
| Y | 89 | | ug/L | | | 261932 | 257011 | 2 | Standard |
| Kr | 83 | | ug/L | | | 49 | 43 | 19 | Standard |
| [> In-1 | 115 | | ug/L | | | 7009 | 7149 | 4 | KED |
| Cd | 111 | -0.005 | ug/L | 0.013 | 253 | 4 | 3 | 83 | KED |
| Cd | 114 | -0.003 | ug/L | 0.002 | 84 | 4 | 3 | 36 | KED |
| [> In | 115 | | ug/L | | | 367469 | 357880 | 1 | Standard |
| Ag | 107 | -0.003 | ug/L | 0.001 | 16 | 86 | 46 | 12 | Standard |
| Ba | 135 | 0.004 | ug/L | 0.005 | 119 | 23 | 36 | 44 | Standard |
| Ba | 137 | 0.004 | ug/L | 0.002 | 44 | 37 | 60 | 19 | Standard |
| [> Tb | 159 | | ug/L | | | 619766 | 601879 | 1 | Standard |
| Pb | 208 | 0.001 | ug/L | 0.001 | 40 | 178 | 222 | 8 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVH

Sample Dil Factor:

Comments:

Sample Date/Time: Saturday, April 08, 2023 05:10:37

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 33004 | 32551 | 0 | Standard |
| Cl | 37 | | ug/L | | | 4319075 | 4275162 | 1 | Standard |
| [> Sc | 45 | | ug/L | | | 460811 | 479626 | 0 | Standard |
| Cr | 52 | 51.362 | ug/L | 0.483 | 0 | 14116 | 822693 | 1 | Standard |
| Cr | 53 | 51.625 | ug/L | 0.607 | 1 | 169 | 93910 | 1 | Standard |
| Mn | 55 | 51.295 | ug/L | 0.961 | 1 | 2166 | 1135632 | 2 | Standard |
| [> Ge | 72 | | ug/L | | | 25853 | 25769 | 0 | KED |
| Ni | 60 | 49.917 | ug/L | 0.627 | 1 | 24 | 48886 | 2 | KED |
| Ni | 62 | 50.714 | ug/L | 1.481 | 2 | 9 | 8100 | 2 | KED |
| Cu | 63 | 50.369 | ug/L | 1.026 | 2 | 49 | 143802 | 2 | KED |
| Cu | 65 | 51.012 | ug/L | 0.736 | 1 | 27 | 71918 | 2 | KED |
| Zn | 66 | 51.730 | ug/L | 1.180 | 2 | 20 | 18714 | 2 | KED |
| Zn | 67 | 51.604 | ug/L | 0.508 | 0 | 4 | 3107 | 1 | KED |
| As | 75 | 49.595 | ug/L | 0.487 | 0 | 6 | 9343 | 1 | KED |
| Se | 78 | 47.942 | ug/L | 0.956 | 1 | 19 | 1032 | 2 | KED |
| Y | 89 | | ug/L | | | 261932 | 273486 | 2 | Standard |
| Kr | 83 | | ug/L | | | 49 | 59 | 14 | Standard |
| [> In-1 | 115 | | ug/L | | | 7009 | 7011 | 1 | KED |
| Cd | 111 | 51.551 | ug/L | 1.064 | 2 | 4 | 10677 | 1 | KED |
| Cd | 114 | 51.306 | ug/L | 1.130 | 2 | 4 | 26139 | 0 | KED |
| [> In | 115 | | ug/L | | | 367469 | 366167 | 1 | Standard |
| Ag | 107 | 50.660 | ug/L | 1.542 | 3 | 86 | 618190 | 1 | Standard |
| Ba | 135 | 51.293 | ug/L | 1.397 | 2 | 23 | 156982 | 1 | Standard |
| Ba | 137 | 50.773 | ug/L | 1.281 | 2 | 37 | 275811 | 1 | Standard |
| [> Tb | 159 | | ug/L | | | 619766 | 631969 | 1 | Standard |
| Pb | 208 | 52.046 | ug/L | 1.150 | 2 | 178 | 2037080 | 0 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBH

Sample Dil Factor:

Comments:

Sample Date/Time: Saturday, April 08, 2023 05:18:06

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 33004 | 32482 | 1 | Standard |
| Cl | 37 | | ug/L | | | 4319075 | 4263500 | 2 | Standard |
| [> Sc | 45 | | ug/L | | | 460811 | 460713 | 1 | Standard |
| Cr | 52 | 0.015 | ug/L | 0.004 | 30 | 14116 | 14336 | 1 | Standard |
| Cr | 53 | 0.012 | ug/L | 0.003 | 20 | 169 | 191 | 1 | Standard |
| Mn | 55 | -0.027 | ug/L | 0.001 | 4 | 2166 | 1593 | 1 | Standard |
| [> Ge | 72 | | ug/L | | | 25853 | 25100 | 1 | KED |
| Ni | 60 | 0.040 | ug/L | 0.059 | 148 | 24 | 61 | 93 | KED |
| Ni | 62 | 0.002 | ug/L | 0.048 | 3071 | 9 | 9 | 80 | KED |
| Cu | 63 | 0.009 | ug/L | 0.020 | 230 | 49 | 72 | 77 | KED |
| Cu | 65 | 0.013 | ug/L | 0.034 | 264 | 27 | 44 | 106 | KED |
| Zn | 66 | 0.023 | ug/L | 0.015 | 65 | 20 | 28 | 20 | KED |
| Zn | 67 | 0.002 | ug/L | 0.018 | 857 | 4 | 4 | 24 | KED |
| As | 75 | 0.019 | ug/L | 0.028 | 149 | 6 | 10 | 53 | KED |
| Se | 78 | -0.088 | ug/L | 0.123 | 139 | 19 | 17 | 16 | KED |
| Y | 89 | | ug/L | | | 261932 | 262957 | 4 | Standard |
| Kr | 83 | | ug/L | | | 49 | 47 | 14 | Standard |
| [> In-1 | 115 | | ug/L | | | 7009 | 6823 | 2 | KED |
| Cd | 111 | -0.009 | ug/L | 0.003 | 29 | 4 | 2 | 21 | KED |
| Cd | 114 | -0.007 | ug/L | 0.002 | 32 | 4 | 0 | 237 | KED |
| [> In | 115 | | ug/L | | | 367469 | 357348 | 2 | Standard |
| Ag | 107 | 0.000 | ug/L | 0.001 | 232 | 86 | 88 | 10 | Standard |
| Ba | 135 | 0.001 | ug/L | 0.004 | 297 | 23 | 27 | 49 | Standard |
| Ba | 137 | 0.001 | ug/L | 0.003 | 333 | 37 | 41 | 39 | Standard |
| [> Tb | 159 | | ug/L | | | 619766 | 611681 | 1 | Standard |
| Pb | 208 | -0.002 | ug/L | 0.000 | 4 | 178 | 85 | 5 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23C0512-07**

Sample Dil Factor:

Comments:

Sample Date/Time: **Saturday, April 08, 2023 05:22:50**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 33004 | 43811 | 2 | Standard |
| Cl | 37 | | ug/L | | | 4319075 | 4080520 | 2 | Standard |
| > Sc | 45 | | ug/L | | | 460811 | 550677 | 0 | Standard |
| Cr | 52 | 0.107 | ug/L | 0.021 | 19 | 14116 | 18800 | 1 | Standard |
| Cr | 53 | 0.254 | ug/L | 0.006 | 2 | 169 | 733 | 1 | Standard |
| Mn | 55 | 18.538 | ug/L | 0.478 | 2 | 2166 | 472769 | 1 | Standard |
| > Ge | 72 | | ug/L | | | 25853 | 25182 | 1 | KED |
| Ni | 60 | 0.064 | ug/L | 0.009 | 14 | 24 | 84 | 9 | KED |
| Ni | 62 | -0.002 | ug/L | 0.026 | 1107 | 9 | 8 | 44 | KED |
| Cu | 63 | 0.102 | ug/L | 0.006 | 6 | 49 | 331 | 4 | KED |
| Cu | 65 | 0.117 | ug/L | 0.024 | 20 | 27 | 187 | 17 | KED |
| Zn | 66 | 0.530 | ug/L | 0.016 | 3 | 20 | 207 | 1 | KED |
| Zn | 67 | 9.757 | ug/L | 0.162 | 1 | 4 | 577 | 3 | KED |
| As | 75 | 0.014 | ug/L | 0.013 | 96 | 6 | 9 | 27 | KED |
| Se | 78 | -0.203 | ug/L | 0.155 | 76 | 19 | 14 | 20 | KED |
| Y | 89 | | ug/L | | | 261932 | 275929 | 2 | Standard |
| Kr | 83 | | ug/L | | | 49 | 50 | 9 | Standard |
| > In-1 | 115 | | ug/L | | | 7009 | 7032 | 1 | KED |
| Cd | 111 | -0.002 | ug/L | 0.012 | 784 | 4 | 4 | 58 | KED |
| Cd | 114 | 0.001 | ug/L | 0.006 | 515 | 4 | 4 | 58 | KED |
| > In | 115 | | ug/L | | | 367469 | 361282 | 0 | Standard |
| Ag | 107 | 0.001 | ug/L | 0.001 | 86 | 86 | 102 | 14 | Standard |
| Ba | 135 | 108.408 | ug/L | 0.746 | 0 | 23 | 327421 | 0 | Standard |
| Ba | 137 | 107.040 | ug/L | 2.728 | 2 | 37 | 573795 | 2 | Standard |
| > Tb | 159 | | ug/L | | | 619766 | 623401 | 0 | Standard |
| Pb | 208 | 0.009 | ug/L | 0.000 | 5 | 178 | 522 | 3 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23C0512-08**

Sample Dil Factor:

Comments:

Sample Date/Time: **Saturday, April 08, 2023 05:27:35**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 33004 | 47768 | 1 | Standard |
| Cl | 37 | | ug/L | | | 4319075 | 4164946 | 1 | Standard |
| > Sc | 45 | | ug/L | | | 460811 | 547613 | 0 | Standard |
| Cr | 52 | 0.068 | ug/L | 0.025 | 36 | 14116 | 18003 | 2 | Standard |
| Cr | 53 | 0.171 | ug/L | 0.014 | 7 | 169 | 557 | 4 | Standard |
| Mn | 55 | 582.983 | ug/L | 6.242 | 1 | 2166 | 14708901 | 1 | Standard |
| > Ge | 72 | | ug/L | | | 25853 | 22998 | 1 | KED |
| Ni | 60 | 9.196 | ug/L | 0.169 | 1 | 24 | 8053 | 0 | KED |
| Ni | 62 | 9.111 | ug/L | 0.355 | 3 | 9 | 1305 | 2 | KED |
| Cu | 63 | 0.081 | ug/L | 0.007 | 9 | 49 | 251 | 8 | KED |
| Cu | 65 | 0.085 | ug/L | 0.011 | 13 | 27 | 130 | 11 | KED |
| Zn | 66 | 0.924 | ug/L | 0.062 | 6 | 20 | 316 | 6 | KED |
| Zn | 67 | 3.451 | ug/L | 0.255 | 7 | 4 | 189 | 7 | KED |
| As | 75 | 1.430 | ug/L | 0.090 | 6 | 6 | 246 | 4 | KED |
| Se | 78 | -0.157 | ug/L | 0.089 | 56 | 19 | 14 | 10 | KED |
| Y | 89 | | ug/L | | | 261932 | 269890 | 0 | Standard |
| Kr | 83 | | ug/L | | | 49 | 78 | 7 | Standard |
| > In-1 | 115 | | ug/L | | | 7009 | 6363 | 1 | KED |
| Cd | 111 | 0.007 | ug/L | 0.003 | 43 | 4 | 5 | 10 | KED |
| Cd | 114 | -0.005 | ug/L | 0.004 | 87 | 4 | 1 | 106 | KED |
| > In | 115 | | ug/L | | | 367469 | 326201 | 2 | Standard |
| Ag | 107 | -0.003 | ug/L | 0.001 | 48 | 86 | 48 | 28 | Standard |
| Ba | 135 | 42.055 | ug/L | 1.105 | 2 | 23 | 114661 | 1 | Standard |
| Ba | 137 | 41.375 | ug/L | 1.093 | 2 | 37 | 200227 | 1 | Standard |
| > Tb | 159 | | ug/L | | | 619766 | 591966 | 0 | Standard |
| Pb | 208 | 0.009 | ug/L | 0.002 | 16 | 178 | 513 | 10 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23C0512-09**

Sample Dil Factor:

Comments:

Sample Date/Time: **Saturday, April 08, 2023 05:32:19**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 33004 | 48354 | 1 | Standard |
| Cl | 37 | | ug/L | | | 4319075 | 4388967 | 0 | Standard |
| Sc | 45 | | ug/L | | | 460811 | 580415 | 1 | Standard |
| Cr | 52 | 0.089 | ug/L | 0.013 | 14 | 14116 | 19480 | 2 | Standard |
| Cr | 53 | 0.219 | ug/L | 0.006 | 2 | 169 | 695 | 2 | Standard |
| Mn | 55 | 337.174 | ug/L | 7.794 | 2 | 2166 | 9015891 | 1 | Standard |
| Ge | 72 | | ug/L | | | 25853 | 24540 | 1 | KED |
| Ni | 60 | 0.249 | ug/L | 0.023 | 9 | 24 | 255 | 7 | KED |
| Ni | 62 | 0.254 | ug/L | 0.037 | 14 | 9 | 47 | 10 | KED |
| Cu | 63 | 0.078 | ug/L | 0.006 | 8 | 49 | 257 | 6 | KED |
| Cu | 65 | 0.097 | ug/L | 0.006 | 6 | 27 | 155 | 4 | KED |
| Zn | 66 | 1.847 | ug/L | 0.090 | 4 | 20 | 655 | 3 | KED |
| Zn | 67 | 15.965 | ug/L | 0.685 | 4 | 4 | 918 | 2 | KED |
| As | 75 | 3.212 | ug/L | 0.190 | 5 | 6 | 581 | 4 | KED |
| Se | 78 | -0.210 | ug/L | 0.162 | 77 | 19 | 14 | 22 | KED |
| Y | 89 | | ug/L | | | 261932 | 280208 | 1 | Standard |
| Kr | 83 | | ug/L | | | 49 | 55 | 24 | Standard |
| In-1 | 115 | | ug/L | | | 7009 | 6688 | 4 | KED |
| Cd | 111 | 0.003 | ug/L | 0.006 | 207 | 4 | 4 | 20 | KED |
| Cd | 114 | 0.001 | ug/L | 0.005 | 629 | 4 | 4 | 49 | KED |
| In | 115 | | ug/L | | | 367469 | 348399 | 1 | Standard |
| Ag | 107 | -0.002 | ug/L | 0.000 | 21 | 86 | 57 | 8 | Standard |
| Ba | 135 | 191.211 | ug/L | 1.460 | 0 | 23 | 556919 | 1 | Standard |
| Ba | 137 | 192.356 | ug/L | 3.133 | 1 | 37 | 994261 | 0 | Standard |
| Tb | 159 | | ug/L | | | 619766 | 616198 | 0 | Standard |
| Pb | 208 | 0.054 | ug/L | 0.002 | 4 | 178 | 2238 | 4 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23C0512-10**

Sample Dil Factor:

Comments:

Sample Date/Time: **Saturday, April 08, 2023 05:37:03**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|----------------|-------|--------------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 33004 | 51624 | 2 | Standard |
| Cl | 37 | | ug/L | | | 4319075 | 4478676 | 1 | Standard |
| > Sc | 45 | | ug/L | | | 460811 | 561764 | 0 | Standard |
| Cr | 52 | 0.175 | ug/L | 0.006 | 3 | 14116 | 20433 | 0 | Standard |
| Cr | 53 | 0.278 | ug/L | 0.011 | 3 | 169 | 799 | 2 | Standard |
| Mn | 55 | 154.249 | ug/L | 4.631 | 3 | 2166 | 3994066 | 2 | Standard |
| > Ge | 72 | | ug/L | | | 25853 | 24273 | 2 | KED |
| Ni | 60 | 0.207 | ug/L | 0.004 | 1 | 24 | 213 | 1 | KED |
| Ni | 62 | 0.199 | ug/L | 0.062 | 30 | 9 | 38 | 22 | KED |
| Cu | 63 | 0.022 | ug/L | 0.006 | 27 | 49 | 105 | 17 | KED |
| Cu | 65 | 0.073 | ug/L | 0.015 | 20 | 27 | 122 | 15 | KED |
| Zn | 66 | 0.273 | ug/L | 0.049 | 17 | 20 | 112 | 13 | KED |
| Zn | 67 | 25.527 | ug/L | 1.532 | 6 | 4 | 1448 | 3 | KED |
| As | 75 | 8.435 | ug/L | 0.087 | 1 | 6 | 1501 | 1 | KED |
| Se | 78 | -0.165 | ug/L | <u>0.233</u> | 141 | 19 | 14 | 28 | KED |
| Y | 89 | | ug/L | | | 261932 | 277910 | 0 | Standard |
| Kr | 83 | | ug/L | | | 49 | 50 | 12 | Standard |
| > In-1 | 115 | | ug/L | | | 7009 | 6615 | 2 | KED |
| Cd | 111 | -0.005 | ug/L | 0.005 | 102 | 4 | 3 | 34 | KED |
| Cd | 114 | -0.006 | ug/L | 0.002 | 37 | 4 | 1 | 99 | KED |
| > In | 115 | | ug/L | | | 367469 | 350721 | 0 | Standard |
| Ag | 107 | -0.003 | ug/L | 0.001 | 22 | 86 | 53 | 12 | Standard |
| Ba | 135 | 321.821 | ug/L | 4.367 | 1 | 23 | 943491 | 0 | Standard |
| Ba | 137 | 321.092 | ug/L | 0.935 | 0 | 37 | 1670916 | 0 | Standard |
| > Tb | 159 | | ug/L | | | 619766 | 613978 | 0 | Standard |
| Pb | 208 | 0.001 | ug/L | 0.000 | 31 | 178 | 215 | 6 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23C0512-11**

Sample Dil Factor:

Comments:

Sample Date/Time: **Saturday, April 08, 2023 05:41:47**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 33004 | 48792 | 4 | Standard |
| Cl | 37 | | ug/L | | | 4319075 | 4357448 | 3 | Standard |
| > Sc | 45 | | ug/L | | | 460811 | 559700 | 1 | Standard |
| Cr | 52 | 0.372 | ug/L | 0.016 | 4 | 14116 | 23980 | 1 | Standard |
| Cr | 53 | 0.511 | ug/L | 0.011 | 2 | 169 | 1288 | 2 | Standard |
| Mn | 55 | 138.174 | ug/L | 1.582 | 1 | 2166 | 3564680 | 0 | Standard |
| > Ge | 72 | | ug/L | | | 25853 | 24319 | 0 | KED |
| Ni | 60 | 0.400 | ug/L | 0.005 | 1 | 24 | 392 | 1 | KED |
| Ni | 62 | 0.379 | ug/L | 0.065 | 17 | 9 | 66 | 14 | KED |
| Cu | 63 | 0.048 | ug/L | 0.007 | 13 | 49 | 175 | 9 | KED |
| Cu | 65 | 0.111 | ug/L | 0.021 | 19 | 27 | 172 | 15 | KED |
| Zn | 66 | 0.458 | ug/L | 0.060 | 13 | 20 | 175 | 11 | KED |
| Zn | 67 | 37.885 | ug/L | 1.293 | 3 | 4 | 2153 | 2 | KED |
| As | 75 | 2.105 | ug/L | 0.045 | 2 | 6 | 380 | 1 | KED |
| Se | 78 | -0.251 | ug/L | 0.039 | 15 | 19 | 13 | 5 | KED |
| Y | 89 | | ug/L | | | 261932 | 278209 | 1 | Standard |
| Kr | 83 | | ug/L | | | 49 | 59 | 20 | Standard |
| > In-1 | 115 | | ug/L | | | 7009 | 6253 | 10 | KED |
| Cd | 111 | -0.004 | ug/L | 0.007 | 168 | 4 | 3 | 45 | KED |
| Cd | 114 | 0.001 | ug/L | 0.002 | 255 | 4 | 4 | 27 | KED |
| > In | 115 | | ug/L | | | 367469 | 345516 | 2 | Standard |
| Ag | 107 | -0.002 | ug/L | 0.001 | 24 | 86 | 55 | 11 | Standard |
| Ba | 135 | 509.020 | ug/L | 18.982 | 3 | 23 | 1469345 | 1 | Standard |
| Ba | 137 | 526.071 | ug/L | 2.695 | 0 | 37 | 2696749 | 1 | Standard |
| > Tb | 159 | | ug/L | | | 619766 | 622628 | 0 | Standard |
| Pb | 208 | 0.005 | ug/L | 0.000 | 6 | 178 | 365 | 3 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23C0539-02**

Sample Dil Factor:

Comments:

Sample Date/Time: **Saturday, April 08, 2023 05:46:25**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|---------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 33004 | 49055 | 2 | Standard |
| Cl | 37 | | ug/L | | | 4319075 | 4263107 | 2 | Standard |
| [> Sc | 45 | | ug/L | | | 460811 | 549154 | 1 | Standard |
| Cr | 52 | 0.319 | ug/L | 0.023 | 7 | 14116 | 22569 | 2 | Standard |
| Cr | 53 | 0.365 | ug/L | 0.022 | 6 | 169 | 961 | 3 | Standard |
| Mn | 55 | 21.278 | ug/L | 0.535 | 2 | 2166 | 540704 | 1 | Standard |
| [> Ge | 72 | | ug/L | | | 25853 | 25493 | 3 | KED |
| Ni | 60 | 0.551 | ug/L | 0.042 | 7 | 24 | 557 | 8 | KED |
| Ni | 62 | 0.568 | ug/L | 0.005 | 0 | 9 | 99 | 3 | KED |
| Cu | 63 | 0.391 | ug/L | 0.023 | 5 | 49 | 1153 | 6 | KED |
| Cu | 65 | 0.392 | ug/L | 0.033 | 8 | 27 | 574 | 10 | KED |
| Zn | 66 | 1.659 | ug/L | 0.076 | 4 | 20 | 613 | 3 | KED |
| Zn | 67 | 5.933 | ug/L | 0.240 | 4 | 4 | 357 | 5 | KED |
| As | 75 | 0.604 | ug/L | 0.007 | 1 | 6 | 119 | 2 | KED |
| Se | 78 | -0.259 | ug/L | 0.100 | 38 | 19 | 13 | 12 | KED |
| Y | 89 | | ug/L | | | 261932 | 275926 | 1 | Standard |
| Kr | 83 | | ug/L | | | 49 | 55 | 23 | Standard |
| [> In-1 | 115 | | ug/L | | | 7009 | 6903 | 3 | KED |
| Cd | 111 | -0.001 | ug/L | 0.007 | 635 | 4 | 4 | 35 | KED |
| Cd | 114 | 0.014 | ug/L | 0.007 | 53 | 4 | 11 | 30 | KED |
| [> In | 115 | | ug/L | | | 367469 | 357816 | 1 | Standard |
| Ag | 107 | 0.087 | ug/L | 0.007 | 7 | 86 | 1125 | 7 | Standard |
| Ba | 135 | 60.107 | ug/L | 1.553 | 2 | 23 | 179765 | 1 | Standard |
| Ba | 137 | 61.027 | ug/L | 0.486 | 0 | 37 | 324037 | 1 | Standard |
| [> Tb | 159 | | ug/L | | | 619766 | 626123 | 0 | Standard |
| Pb | 208 | 0.026 | ug/L | 0.001 | 4 | 178 | 1200 | 4 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23C0539-03**

Sample Dil Factor:

Comments:

Sample Date/Time: **Saturday, April 08, 2023 05:51:09**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 33004 | 49292 | 2 | Standard |
| Cl | 37 | | ug/L | | | 4319075 | 4327392 | 1 | Standard |
| [> Sc | 45 | | ug/L | | | 460811 | 524705 | 1 | Standard |
| Cr | 52 | 0.041 | ug/L | 0.022 | 52 | 14116 | 16776 | 1 | Standard |
| Cr | 53 | 0.122 | ug/L | 0.013 | 10 | 169 | 435 | 5 | Standard |
| Mn | 55 | 169.299 | ug/L | 2.033 | 1 | 2166 | 4094484 | 1 | Standard |
| [> Ge | 72 | | ug/L | | | 25853 | 23927 | 1 | KED |
| Ni | 60 | 0.176 | ug/L | 0.029 | 16 | 24 | 182 | 13 | KED |
| Ni | 62 | 0.112 | ug/L | 0.012 | 11 | 9 | 25 | 8 | KED |
| Cu | 63 | 0.074 | ug/L | 0.010 | 13 | 49 | 241 | 9 | KED |
| Cu | 65 | 0.088 | ug/L | 0.013 | 15 | 27 | 140 | 11 | KED |
| Zn | 66 | 0.609 | ug/L | 0.041 | 6 | 20 | 223 | 5 | KED |
| Zn | 67 | 19.238 | ug/L | 1.051 | 5 | 4 | 1078 | 5 | KED |
| As | 75 | 0.067 | ug/L | 0.008 | 12 | 6 | 17 | 10 | KED |
| Se | 78 | -0.210 | ug/L | 0.151 | 72 | 19 | 13 | 22 | KED |
| Y | 89 | | ug/L | | | 261932 | 264544 | 2 | Standard |
| Kr | 83 | | ug/L | | | 49 | 50 | 16 | Standard |
| [> In-1 | 115 | | ug/L | | | 7009 | 6744 | 1 | KED |
| Cd | 111 | -0.009 | ug/L | 0.003 | 30 | 4 | 2 | 21 | KED |
| Cd | 114 | 0.001 | ug/L | 0.008 | 586 | 4 | 4 | 81 | KED |
| [> In | 115 | | ug/L | | | 367469 | 332323 | 0 | Standard |
| Ag | 107 | -0.002 | ug/L | 0.000 | 21 | 86 | 58 | 6 | Standard |
| Ba | 135 | 242.332 | ug/L | 1.438 | 0 | 23 | 673232 | 1 | Standard |
| Ba | 137 | 240.629 | ug/L | 2.620 | 1 | 37 | 1186461 | 0 | Standard |
| [> Tb | 159 | | ug/L | | | 619766 | 586275 | 2 | Standard |
| Pb | 208 | 0.009 | ug/L | 0.001 | 8 | 178 | 502 | 4 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23C0539-04**

Sample Dil Factor:

Comments:

Sample Date/Time: **Saturday, April 08, 2023 05:55:53**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 33004 | 48899 | 0 | Standard |
| Cl | 37 | | ug/L | | | 4319075 | 4523212 | 0 | Standard |
| > Sc | 45 | | ug/L | | | 460811 | 542411 | 1 | Standard |
| Cr | 52 | 0.079 | ug/L | 0.008 | 10 | 14116 | 18031 | 2 | Standard |
| Cr | 53 | 0.197 | ug/L | 0.012 | 6 | 169 | 605 | 3 | Standard |
| Mn | 55 | 324.579 | ug/L | 8.028 | 2 | 2166 | 8110487 | 1 | Standard |
| > Ge | 72 | | ug/L | | | 25853 | 24766 | 0 | KED |
| Ni | 60 | 0.195 | ug/L | 0.014 | 7 | 24 | 206 | 6 | KED |
| Ni | 62 | 0.172 | ug/L | 0.029 | 17 | 9 | 35 | 12 | KED |
| Cu | 63 | 0.047 | ug/L | 0.001 | 2 | 49 | 175 | 1 | KED |
| Cu | 65 | 0.056 | ug/L | 0.009 | 16 | 27 | 102 | 12 | KED |
| Zn | 66 | 0.536 | ug/L | 0.029 | 5 | 20 | 206 | 4 | KED |
| Zn | 67 | 3.474 | ug/L | 0.092 | 2 | 4 | 205 | 3 | KED |
| As | 75 | 2.115 | ug/L | 0.075 | 3 | 6 | 389 | 2 | KED |
| Se | 78 | 0.015 | ug/L | 0.116 | 760 | 19 | 18 | 12 | KED |
| Y | 89 | | ug/L | | | 261932 | 282762 | 3 | Standard |
| Kr | 83 | | ug/L | | | 49 | 58 | 16 | Standard |
| > In-1 | 115 | | ug/L | | | 7009 | 6902 | 3 | KED |
| Cd | 111 | -0.001 | ug/L | 0.010 | 989 | 4 | 4 | 48 | KED |
| Cd | 114 | 0.005 | ug/L | 0.002 | 50 | 4 | 6 | 15 | KED |
| > In | 115 | | ug/L | | | 367469 | 357347 | 0 | Standard |
| Ag | 107 | -0.003 | ug/L | 0.000 | 2 | 86 | 45 | 2 | Standard |
| Ba | 135 | 31.688 | ug/L | 0.548 | 1 | 23 | 94682 | 1 | Standard |
| Ba | 137 | 31.226 | ug/L | 0.272 | 0 | 37 | 165601 | 0 | Standard |
| > Tb | 159 | | ug/L | | | 619766 | 630586 | 1 | Standard |
| Pb | 208 | 0.007 | ug/L | 0.001 | 19 | 178 | 464 | 11 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23C0539-05**

Sample Dil Factor:

Comments:

Sample Date/Time: **Saturday, April 08, 2023 06:01:00**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|---------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 33004 | 45077 | 2 | Standard |
| Cl | 37 | | ug/L | | | 4319075 | 4430821 | 0 | Standard |
| > Sc | 45 | | ug/L | | | 460811 | 468954 | 1 | Standard |
| Cr | 52 | 0.353 | ug/L | 0.010 | 2 | 14116 | 19787 | 0 | Standard |
| Cr | 53 | 0.318 | ug/L | 0.007 | 2 | 169 | 737 | 0 | Standard |
| Mn | 55 | 0.512 | ug/L | 0.010 | 1 | 2166 | 13258 | 0 | Standard |
| > Ge | 72 | | ug/L | | | 25853 | 25379 | 2 | KED |
| Ni | 60 | 0.727 | ug/L | 0.071 | 9 | 24 | 723 | 7 | KED |
| Ni | 62 | 0.726 | ug/L | 0.113 | 15 | 9 | 123 | 12 | KED |
| Cu | 63 | 1.419 | ug/L | 0.065 | 4 | 49 | 4034 | 2 | KED |
| Cu | 65 | 1.518 | ug/L | 0.053 | 3 | 27 | 2133 | 3 | KED |
| Zn | 66 | 10.101 | ug/L | 0.384 | 3 | 20 | 3613 | 1 | KED |
| Zn | 67 | 9.078 | ug/L | 0.477 | 5 | 4 | 541 | 2 | KED |
| As | 75 | 0.005 | ug/L | 0.016 | 318 | 6 | 7 | 38 | KED |
| Se | 78 | -0.247 | ug/L | 0.156 | 63 | 19 | 13 | 23 | KED |
| Y | 89 | | ug/L | | | 261932 | 263017 | 1 | Standard |
| Kr | 83 | | ug/L | | | 49 | 45 | 16 | Standard |
| > In-1 | 115 | | ug/L | | | 7009 | 7246 | 2 | KED |
| Cd | 111 | -0.002 | ug/L | 0.007 | 354 | 4 | 4 | 35 | KED |
| Cd | 114 | 0.013 | ug/L | 0.009 | 67 | 4 | 11 | 43 | KED |
| > In | 115 | | ug/L | | | 367469 | 360383 | 1 | Standard |
| Ag | 107 | 0.017 | ug/L | 0.001 | 3 | 86 | 288 | 1 | Standard |
| Ba | 135 | 3.706 | ug/L | 0.038 | 1 | 23 | 11189 | 1 | Standard |
| Ba | 137 | 3.688 | ug/L | 0.071 | 1 | 37 | 19753 | 0 | Standard |
| > Tb | 159 | | ug/L | | | 619766 | 618295 | 2 | Standard |
| Pb | 208 | 0.221 | ug/L | 0.007 | 3 | 178 | 8632 | 0 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLI

Sample Dil Factor:

Comments:

Sample Date/Time: Saturday, April 08, 2023 06:05:39

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 33004 | 32700 | 2 | Standard |
| Cl | 37 | | ug/L | | | 4319075 | 4345298 | 0 | Standard |
| [> Sc | 45 | | ug/L | | | 460811 | 455074 | 0 | Standard |
| Cr | 52 | -0.001 | ug/L | 0.015 | 1747 | 14116 | 13929 | 2 | Standard |
| Cr | 53 | -0.025 | ug/L | 0.005 | 18 | 169 | 124 | 6 | Standard |
| Mn | 55 | -0.055 | ug/L | 0.002 | 2 | 2166 | 984 | 2 | Standard |
| [> Ge | 72 | | ug/L | | | 25853 | 24756 | 2 | KED |
| Ni | 60 | -0.007 | ug/L | 0.001 | 21 | 24 | 16 | 6 | KED |
| Ni | 62 | -0.026 | ug/L | 0.039 | 149 | 9 | 5 | 114 | KED |
| Cu | 63 | 0.001 | ug/L | 0.002 | 353 | 49 | 48 | 11 | KED |
| Cu | 65 | -0.000 | ug/L | 0.010 | 2289 | 27 | 25 | 49 | KED |
| Zn | 66 | 0.008 | ug/L | 0.013 | 167 | 20 | 22 | 22 | KED |
| Zn | 67 | -0.018 | ug/L | 0.070 | 384 | 4 | 3 | 124 | KED |
| As | 75 | 0.002 | ug/L | 0.006 | 354 | 6 | 6 | 14 | KED |
| Se | 78 | -0.218 | ug/L | 0.093 | 42 | 19 | 14 | 15 | KED |
| Y | 89 | | ug/L | | | 261932 | 257267 | 1 | Standard |
| Kr | 83 | | ug/L | | | 49 | 48 | 11 | Standard |
| [> In-1 | 115 | | ug/L | | | 7009 | 6906 | 2 | KED |
| Cd | 111 | -0.004 | ug/L | 0.003 | 73 | 4 | 3 | 15 | KED |
| Cd | 114 | -0.001 | ug/L | 0.004 | 286 | 4 | 3 | 50 | KED |
| [> In | 115 | | ug/L | | | 367469 | 343903 | 1 | Standard |
| Ag | 107 | -0.004 | ug/L | 0.000 | 13 | 86 | 40 | 12 | Standard |
| Ba | 135 | 0.001 | ug/L | 0.000 | 54 | 23 | 24 | 4 | Standard |
| Ba | 137 | 0.004 | ug/L | 0.004 | 97 | 37 | 55 | 36 | Standard |
| [> Tb | 159 | | ug/L | | | 619766 | 599542 | 0 | Standard |
| Pb | 208 | 0.001 | ug/L | 0.001 | 64 | 178 | 202 | 8 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVI

Sample Dil Factor:

Comments:

Sample Date/Time: Saturday, April 08, 2023 06:10:24

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 33004 | 33491 | 1 | Standard |
| Cl | 37 | | ug/L | | | 4319075 | 4288626 | 1 | Standard |
| [> Sc | 45 | | ug/L | | | 460811 | 473770 | 1 | Standard |
| Cr | 52 | 50.139 | ug/L | 1.071 | 2 | 14116 | 793633 | 2 | Standard |
| Cr | 53 | 51.369 | ug/L | 0.894 | 1 | 169 | 92312 | 2 | Standard |
| Mn | 55 | 51.114 | ug/L | 0.771 | 1 | 2166 | 1117847 | 2 | Standard |
| [> Ge | 72 | | ug/L | | | 25853 | 25762 | 0 | KED |
| Ni | 60 | 49.334 | ug/L | 1.513 | 3 | 24 | 48299 | 3 | KED |
| Ni | 62 | 49.491 | ug/L | 0.847 | 1 | 9 | 7904 | 1 | KED |
| Cu | 63 | 50.174 | ug/L | 0.298 | 0 | 49 | 143195 | 0 | KED |
| Cu | 65 | 49.944 | ug/L | 0.117 | 0 | 27 | 70389 | 0 | KED |
| Zn | 66 | 49.877 | ug/L | 0.675 | 1 | 20 | 18040 | 1 | KED |
| Zn | 67 | 50.732 | ug/L | 0.986 | 1 | 4 | 3054 | 1 | KED |
| As | 75 | 49.424 | ug/L | 0.359 | 0 | 6 | 9308 | 0 | KED |
| [Se | 78 | 48.689 | ug/L | 1.533 | 3 | 19 | 1047 | 2 | KED |
| Y | 89 | | ug/L | | | 261932 | 273445 | 0 | Standard |
| Kr | 83 | | ug/L | | | 49 | 60 | 7 | Standard |
| [> In-1 | 115 | | ug/L | | | 7009 | 7018 | 2 | KED |
| Cd | 111 | 50.641 | ug/L | 1.237 | 2 | 4 | 10497 | 0 | KED |
| Cd | 114 | 50.759 | ug/L | 2.011 | 3 | 4 | 25876 | 1 | KED |
| [> In | 115 | | ug/L | | | 367469 | 357535 | 1 | Standard |
| Ag | 107 | 50.702 | ug/L | 1.721 | 3 | 86 | 604153 | 2 | Standard |
| Ba | 135 | 51.700 | ug/L | 0.478 | 0 | 23 | 154527 | 0 | Standard |
| [Ba | 137 | 51.011 | ug/L | 1.502 | 2 | 37 | 270581 | 1 | Standard |
| [> Tb | 159 | | ug/L | | | 619766 | 628525 | 1 | Standard |
| [Pb | 208 | 52.322 | ug/L | 0.333 | 0 | 178 | 2037185 | 1 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBI

Sample Dil Factor:

Comments:

Sample Date/Time: Saturday, April 08, 2023 06:17:52

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 33004 | 32193 | 4 | Standard |
| Cl | 37 | | ug/L | | | 4319075 | 4315932 | 2 | Standard |
| [> Sc | 45 | | ug/L | | | 460811 | 464727 | 1 | Standard |
| Cr | 52 | 0.020 | ug/L | 0.009 | 44 | 14116 | 14534 | 2 | Standard |
| Cr | 53 | -0.020 | ug/L | 0.010 | 52 | 169 | 136 | 14 | Standard |
| Mn | 55 | -0.049 | ug/L | 0.011 | 22 | 2166 | 1141 | 21 | Standard |
| [> Ge | 72 | | ug/L | | | 25853 | 25049 | 3 | KED |
| Ni | 60 | -0.010 | ug/L | 0.004 | 42 | 24 | 13 | 28 | KED |
| Ni | 62 | -0.018 | ug/L | 0.020 | 108 | 9 | 6 | 45 | KED |
| Cu | 63 | -0.001 | ug/L | 0.001 | 221 | 49 | 46 | 10 | KED |
| Cu | 65 | -0.004 | ug/L | 0.004 | 93 | 27 | 20 | 24 | KED |
| Zn | 66 | -0.009 | ug/L | 0.012 | 141 | 20 | 17 | 22 | KED |
| Zn | 67 | -0.018 | ug/L | 0.050 | 272 | 4 | 3 | 91 | KED |
| As | 75 | -0.008 | ug/L | 0.008 | 106 | 6 | 5 | 30 | KED |
| Se | 78 | -0.135 | ug/L | 0.130 | 96 | 19 | 16 | 13 | KED |
| Y | 89 | | ug/L | | | 261932 | 267058 | 1 | Standard |
| Kr | 83 | | ug/L | | | 49 | 38 | 5 | Standard |
| [> In-1 | 115 | | ug/L | | | 7009 | 6744 | 2 | KED |
| Cd | 111 | -0.009 | ug/L | 0.010 | 121 | 4 | 2 | 78 | KED |
| Cd | 114 | 0.000 | ug/L | 0.005 | 968 | 4 | 4 | 49 | KED |
| [> In | 115 | | ug/L | | | 367469 | 358576 | 1 | Standard |
| Ag | 107 | 0.004 | ug/L | 0.009 | 270 | 86 | 127 | 90 | Standard |
| Ba | 135 | 0.008 | ug/L | 0.008 | 93 | 23 | 48 | 50 | Standard |
| Ba | 137 | 0.007 | ug/L | 0.008 | 111 | 37 | 76 | 58 | Standard |
| [> Tb | 159 | | ug/L | | | 619766 | 607323 | 1 | Standard |
| Pb | 208 | 0.002 | ug/L | 0.008 | 328 | 178 | 260 | 108 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23C0544-01**

Sample Dil Factor: **10**

Comments:

Sample Date/Time: **Saturday, April 08, 2023 06:22:37**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|-----------|-----------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 33004 | 36195 | 1 | Standard |
| Cl | 37 | | ug/L | | | 4319075 | 13340577 | 3 | Standard |
| [> Sc | 45 | | ug/L | | | 460811 | 466367 | 1 | Standard |
| Cr | 52 | 0.370 | ug/L | 0.038 | 10 | 14116 | 19945 | 3 | Standard |
| Cr | 53 | 7.403 | ug/L | 0.270 | 3 | 169 | 13240 | 2 | Standard |
| Mn | 55 | 4.646 | ug/L | 0.119 | 2 | 2166 | 101978 | 1 | Standard |
| [> Ge | 72 | | ug/L | | | 25853 | 23924 | 0 | KED |
| Ni | 60 | 1.899 | ug/L | 0.028 | 1 | 24 | 1748 | 2 | KED |
| Ni | 62 | 2.023 | ug/L | 0.088 | 4 | 9 | 308 | 4 | KED |
| Cu | 63 | 0.335 | ug/L | 0.024 | 7 | 49 | 934 | 7 | KED |
| Cu | 65 | 0.358 | ug/L | 0.010 | 2 | 27 | 493 | 2 | KED |
| Zn | 66 | 107.689 | ug/L | 1.633 | 1 | 20 | 36150 | 1 | KED |
| Zn | 67 | 98.416 | ug/L | 1.879 | 1 | 4 | 5498 | 1 | KED |
| As | 75 | 0.044 | ug/L | 0.015 | 34 | 6 | 13 | 19 | KED |
| Se | 78 | -0.013 | ug/L | 0.045 | 334 | 19 | 17 | 5 | KED |
| Y | 89 | | ug/L | | | 261932 | 260486 | 1 | Standard |
| Kr | 83 | | ug/L | | | 49 | 57 | 12 | Standard |
| [> In-1 | 115 | | ug/L | | | 7009 | 6485 | 1 | KED |
| Cd | 111 | 0.547 | ug/L | 0.061 | 11 | 4 | 108 | 10 | KED |
| Cd | 114 | 0.570 | ug/L | 0.003 | 0 | 4 | 272 | 1 | KED |
| [> In | 115 | | ug/L | | | 367469 | 333878 | 1 | Standard |
| Ag | 107 | 0.001 | ug/L | 0.002 | 309 | 86 | 87 | 30 | Standard |
| Ba | 135 | 5.275 | ug/L | 0.095 | 1 | 23 | 14742 | 1 | Standard |
| Ba | 137 | 5.332 | ug/L | 0.065 | 1 | 37 | 26444 | 0 | Standard |
| [> Tb | 159 | | ug/L | | | 619766 | 608424 | 0 | Standard |
| Pb | 208 | 0.014 | ug/L | 0.002 | 12 | 178 | 692 | 8 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23C0544-02**

Sample Dil Factor: **10**

Comments:

Sample Date/Time: **Saturday, April 08, 2023 06:27:15**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|-----------|-----------|---------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 33004 | 37670 | 1 | Standard |
| Cl | 37 | | ug/L | | | 4319075 | 16205702 | 1 | Standard |
| > Sc | 45 | | ug/L | | | 460811 | 471114 | 1 | Standard |
| Cr | 52 | 0.662 | ug/L | 0.034 | 5 | 14116 | 24661 | 1 | Standard |
| Cr | 53 | 12.898 | ug/L | 0.358 | 2 | 169 | 23179 | 3 | Standard |
| Mn | 55 | 4.943 | ug/L | 0.038 | 0 | 2166 | 109482 | 0 | Standard |
| > Ge | 72 | | ug/L | | | 25853 | 23008 | 2 | KED |
| Ni | 60 | 1.692 | ug/L | 0.087 | 5 | 24 | 1499 | 3 | KED |
| Ni | 62 | 1.906 | ug/L | 0.228 | 11 | 9 | 280 | 11 | KED |
| Cu | 63 | 0.220 | ug/L | 0.011 | 4 | 49 | 605 | 3 | KED |
| Cu | 65 | 0.222 | ug/L | 0.010 | 4 | 27 | 304 | 3 | KED |
| Zn | 66 | 98.265 | ug/L | 2.048 | 2 | 20 | 31716 | 0 | KED |
| Zn | 67 | 89.685 | ug/L | 1.898 | 2 | 4 | 4818 | 2 | KED |
| As | 75 | 0.032 | ug/L | 0.021 | 64 | 6 | 11 | 33 | KED |
| Se | 78 | 0.060 | ug/L | 0.258 | 430 | 19 | 18 | 28 | KED |
| Y | 89 | | ug/L | | | 261932 | 261323 | 1 | Standard |
| Kr | 83 | | ug/L | | | 49 | 49 | 17 | Standard |
| > In-1 | 115 | | ug/L | | | 7009 | 6316 | 0 | KED |
| Cd | 111 | 0.683 | ug/L | 0.042 | 6 | 4 | 131 | 6 | KED |
| Cd | 114 | 0.679 | ug/L | 0.055 | 8 | 4 | 315 | 7 | KED |
| > In | 115 | | ug/L | | | 367469 | 328258 | 2 | Standard |
| Ag | 107 | 0.002 | ug/L | 0.001 | 88 | 86 | 95 | 14 | Standard |
| Ba | 135 | 2.138 | ug/L | 0.069 | 3 | 23 | 5884 | 2 | Standard |
| Ba | 137 | 2.109 | ug/L | 0.098 | 4 | 37 | 10301 | 3 | Standard |
| > Tb | 159 | | ug/L | | | 619766 | 599777 | 1 | Standard |
| Pb | 208 | 0.019 | ug/L | 0.001 | 7 | 178 | 874 | 4 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23C0544-03**

Sample Dil Factor: **10**

Comments:

Sample Date/Time: **Saturday, April 08, 2023 06:32:23**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|-----------|-----------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 33004 | 39745 | 2 | Standard |
| Cl | 37 | | ug/L | | | 4319075 | 19023149 | 1 | Standard |
| > Sc | 45 | | ug/L | | | 460811 | 471926 | 1 | Standard |
| Cr | 52 | 0.493 | ug/L | 0.067 | 13 | 14116 | 22076 | 3 | Standard |
| Cr | 53 | 15.199 | ug/L | 0.240 | 1 | 169 | 27323 | 0 | Standard |
| Mn | 55 | 29.177 | ug/L | 0.336 | 1 | 2166 | 636461 | 1 | Standard |
| > Ge | 72 | | ug/L | | | 25853 | 23194 | 0 | KED |
| Ni | 60 | 2.302 | ug/L | 0.046 | 2 | 24 | 2049 | 2 | KED |
| Ni | 62 | 2.186 | ug/L | 0.184 | 8 | 9 | 322 | 8 | KED |
| Cu | 63 | 0.186 | ug/L | 0.012 | 6 | 49 | 521 | 5 | KED |
| Cu | 65 | 0.179 | ug/L | 0.012 | 6 | 27 | 252 | 5 | KED |
| Zn | 66 | 105.408 | ug/L | 1.883 | 1 | 20 | 34305 | 1 | KED |
| Zn | 67 | 95.311 | ug/L | 1.592 | 1 | 4 | 5162 | 1 | KED |
| As | 75 | 0.027 | ug/L | 0.010 | 38 | 6 | 10 | 16 | KED |
| Se | 78 | 0.075 | ug/L | 0.207 | 278 | 19 | 18 | 20 | KED |
| Y | 89 | | ug/L | | | 261932 | 262898 | 0 | Standard |
| Kr | 83 | | ug/L | | | 49 | 81 | 3 | Standard |
| > In-1 | 115 | | ug/L | | | 7009 | 6525 | 1 | KED |
| Cd | 111 | 0.578 | ug/L | 0.033 | 5 | 4 | 115 | 4 | KED |
| Cd | 114 | 0.601 | ug/L | 0.029 | 4 | 4 | 288 | 3 | KED |
| > In | 115 | | ug/L | | | 367469 | 336954 | 1 | Standard |
| Ag | 107 | 0.007 | ug/L | 0.001 | 12 | 86 | 162 | 6 | Standard |
| Ba | 135 | 19.495 | ug/L | 0.587 | 3 | 23 | 54919 | 1 | Standard |
| Ba | 137 | 19.460 | ug/L | 0.343 | 1 | 37 | 97309 | 0 | Standard |
| > Tb | 159 | | ug/L | | | 619766 | 614585 | 2 | Standard |
| Pb | 208 | 0.006 | ug/L | 0.001 | 14 | 178 | 400 | 8 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23C0540-02**

Sample Dil Factor: **10**

Comments:

Sample Date/Time: **Saturday, April 08, 2023 06:38:31**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 33004 | 37695 | 1 | Standard |
| Cl | 37 | | ug/L | | | 4319075 | 4322976 | 3 | Standard |
| > Sc | 45 | | ug/L | | | 460811 | 501216 | 4 | Standard |
| Cr | 52 | 1.834 | ug/L | 0.114 | 6 | 14116 | 45442 | 0 | Standard |
| Cr | 53 | 2.828 | ug/L | 0.121 | 4 | 169 | 5543 | 0 | Standard |
| Mn | 55 | 30.224 | ug/L | 1.305 | 4 | 2166 | 699456 | 2 | Standard |
| > Ge | 72 | | ug/L | | | 25853 | 26481 | 0 | KED |
| Ni | 60 | 861.284 | ug/L | 20.226 | 2 | 24 | 866377 | 2 | KED |
| Ni | 62 | 866.049 | ug/L | 34.552 | 3 | 9 | 142014 | 3 | KED |
| Cu | 63 | 3.136 | ug/L | 0.052 | 1 | 49 | 9246 | 1 | KED |
| Cu | 65 | 3.140 | ug/L | 0.017 | 0 | 27 | 4575 | 0 | KED |
| Zn | 66 | 14.888 | ug/L | 0.535 | 3 | 20 | 5550 | 3 | KED |
| Zn | 67 | 13.365 | ug/L | 0.689 | 5 | 4 | 830 | 5 | KED |
| As | 75 | 0.018 | ug/L | 0.009 | 52 | 6 | 10 | 17 | KED |
| Se | 78 | -0.013 | ug/L | 0.093 | 709 | 19 | 19 | 10 | KED |
| Y | 89 | | ug/L | | | 261932 | 276707 | 2 | Standard |
| Kr | 83 | | ug/L | | | 49 | 50 | 13 | Standard |
| > In-1 | 115 | | ug/L | | | 7009 | 7216 | 0 | KED |
| Cd | 111 | 0.114 | ug/L | 0.019 | 16 | 4 | 28 | 14 | KED |
| Cd | 114 | 0.148 | ug/L | 0.030 | 20 | 4 | 81 | 19 | KED |
| > In | 115 | | ug/L | | | 367469 | 364427 | 4 | Standard |
| Ag | 107 | -0.002 | ug/L | 0.001 | 47 | 86 | 57 | 27 | Standard |
| Ba | 135 | 1.321 | ug/L | 0.062 | 4 | 23 | 4043 | 4 | Standard |
| Ba | 137 | 1.282 | ug/L | 0.007 | 0 | 37 | 6967 | 3 | Standard |
| > Tb | 159 | | ug/L | | | 619766 | 621220 | 4 | Standard |
| Pb | 208 | 0.018 | ug/L | 0.003 | 13 | 178 | 885 | 6 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23C0540-19**

Sample Dil Factor: **10**

Comments:

Sample Date/Time: **Saturday, April 08, 2023 06:43:09**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|----------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 33004 | 39121 | 2 | Standard |
| Cl | 37 | | ug/L | | | 4319075 | 4213695 | 1 | Standard |
| > Sc | 45 | | ug/L | | | 460811 | 503441 | 1 | Standard |
| Cr | 52 | 0.046 | ug/L | 0.023 | 50 | 14116 | 16178 | 0 | Standard |
| Cr | 53 | 0.679 | ug/L | 0.033 | 4 | 169 | 1478 | 2 | Standard |
| Mn | 55 | 31.248 | ug/L | 0.179 | 0 | 2166 | 727020 | 1 | Standard |
| > Ge | 72 | | ug/L | | | 25853 | 25973 | 2 | KED |
| Ni | 60 | 926.426 | ug/L | 32.969 | 3 | 24 | 913542 | 1 | KED |
| Ni | 62 | 939.080 | ug/L | 24.132 | 2 | 9 | 151013 | 2 | KED |
| Cu | 63 | 1.952 | ug/L | 0.009 | 0 | 49 | 5663 | 1 | KED |
| Cu | 65 | 1.993 | ug/L | 0.105 | 5 | 27 | 2856 | 3 | KED |
| Zn | 66 | 6.141 | ug/L | 0.168 | 2 | 20 | 2258 | 4 | KED |
| Zn | 67 | 5.400 | ug/L | 0.472 | 8 | 4 | 331 | 7 | KED |
| As | 75 | 0.031 | ug/L | 0.019 | 60 | 6 | 12 | 26 | KED |
| Se | 78 | -0.102 | ug/L | 0.139 | 135 | 19 | 17 | 19 | KED |
| Y | 89 | | ug/L | | | 261932 | 285406 | 1 | Standard |
| Kr | 83 | | ug/L | | | 49 | 47 | 22 | Standard |
| > In-1 | 115 | | ug/L | | | 7009 | 7229 | 0 | KED |
| Cd | 111 | 0.011 | ug/L | 0.023 | 203 | 4 | 6 | 69 | KED |
| Cd | 114 | 0.023 | ug/L | 0.008 | 33 | 4 | 16 | 24 | KED |
| > In | 115 | | ug/L | | | 367469 | 369695 | 1 | Standard |
| Ag | 107 | -0.002 | ug/L | 0.000 | 21 | 86 | 66 | 8 | Standard |
| Ba | 135 | 0.633 | ug/L | 0.021 | 3 | 23 | 1978 | 1 | Standard |
| Ba | 137 | 0.624 | ug/L | 0.021 | 3 | 37 | 3460 | 2 | Standard |
| > Tb | 159 | | ug/L | | | 619766 | 631574 | 2 | Standard |
| Pb | 208 | 0.031 | ug/L | 0.002 | 7 | 178 | 1381 | 5 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **23C0540-03**

Sample Dil Factor: **10**

Comments:

Sample Date/Time: **Saturday, April 08, 2023 06:47:47**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 33004 | 39834 | 0 | Standard |
| Cl | 37 | | ug/L | | | 4319075 | 4162237 | 0 | Standard |
| > Sc | 45 | | ug/L | | | 460811 | 508818 | 1 | Standard |
| Cr | 52 | 0.075 | ug/L | 0.028 | 37 | 14116 | 16836 | 3 | Standard |
| Cr | 53 | 0.532 | ug/L | 0.011 | 1 | 169 | 1212 | 0 | Standard |
| Mn | 55 | 30.303 | ug/L | 0.416 | 1 | 2166 | 712598 | 1 | Standard |
| > Ge | 72 | | ug/L | | | 25853 | 26812 | 1 | KED |
| Ni | 60 | 905.920 | ug/L | 13.970 | 1 | 24 | 922547 | 0 | KED |
| Ni | 62 | 917.988 | ug/L | 16.858 | 1 | 9 | 152421 | 2 | KED |
| Cu | 63 | 2.373 | ug/L | 0.059 | 2 | 49 | 7097 | 1 | KED |
| Cu | 65 | 2.366 | ug/L | 0.042 | 1 | 27 | 3497 | 1 | KED |
| Zn | 66 | 5.942 | ug/L | 0.160 | 2 | 20 | 2256 | 3 | KED |
| Zn | 67 | 5.562 | ug/L | 0.556 | 9 | 4 | 352 | 8 | KED |
| As | 75 | 0.055 | ug/L | 0.008 | 14 | 6 | 17 | 8 | KED |
| Se | 78 | -0.112 | ug/L | 0.104 | 93 | 19 | 17 | 12 | KED |
| Y | 89 | | ug/L | | | 261932 | 296972 | 1 | Standard |
| Kr | 83 | | ug/L | | | 49 | 46 | 34 | Standard |
| > In-1 | 115 | | ug/L | | | 7009 | 7211 | 1 | KED |
| Cd | 111 | 0.017 | ug/L | 0.015 | 89 | 4 | 8 | 40 | KED |
| Cd | 114 | 0.013 | ug/L | 0.016 | 122 | 4 | 11 | 73 | KED |
| > In | 115 | | ug/L | | | 367469 | 368779 | 1 | Standard |
| Ag | 107 | 0.001 | ug/L | 0.000 | 56 | 86 | 93 | 3 | Standard |
| Ba | 135 | 0.693 | ug/L | 0.009 | 1 | 23 | 2158 | 1 | Standard |
| Ba | 137 | 0.680 | ug/L | 0.026 | 3 | 37 | 3756 | 2 | Standard |
| > Tb | 159 | | ug/L | | | 619766 | 630997 | 1 | Standard |
| Pb | 208 | 0.042 | ug/L | 0.001 | 1 | 178 | 1838 | 0 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **BLD0102-DUP2**

Sample Dil Factor: **10**

Comments:

Sample Date/Time: **Saturday, April 08, 2023 06:52:25**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 33004 | 38588 | 2 | Standard |
| Cl | 37 | | ug/L | | | 4319075 | 4156494 | 0 | Standard |
| > Sc | 45 | | ug/L | | | 460811 | 509776 | 2 | Standard |
| Cr | 52 | 0.087 | ug/L | 0.029 | 33 | 14116 | 17071 | 1 | Standard |
| Cr | 53 | 0.482 | ug/L | 0.007 | 1 | 169 | 1117 | 3 | Standard |
| Mn | 55 | 29.166 | ug/L | 0.936 | 3 | 2166 | 687073 | 2 | Standard |
| > Ge | 72 | | ug/L | | | 25853 | 26668 | 0 | KED |
| Ni | 60 | 884.249 | ug/L | 22.016 | 2 | 24 | 895758 | 2 | KED |
| Ni | 62 | 885.653 | ug/L | 27.996 | 3 | 9 | 146278 | 3 | KED |
| Cu | 63 | 2.249 | ug/L | 0.054 | 2 | 49 | 6694 | 2 | KED |
| Cu | 65 | 2.210 | ug/L | 0.020 | 0 | 27 | 3251 | 0 | KED |
| Zn | 66 | 5.956 | ug/L | 0.050 | 0 | 20 | 2249 | 0 | KED |
| Zn | 67 | 5.690 | ug/L | 0.419 | 7 | 4 | 358 | 7 | KED |
| As | 75 | 0.043 | ug/L | 0.009 | 20 | 6 | 15 | 11 | KED |
| Se | 78 | -0.043 | ug/L | 0.129 | 300 | 19 | 19 | 14 | KED |
| Y | 89 | | ug/L | | | 261932 | 297189 | 2 | Standard |
| Kr | 83 | | ug/L | | | 49 | 48 | 9 | Standard |
| > In-1 | 115 | | ug/L | | | 7009 | 7109 | 1 | KED |
| Cd | 111 | 0.009 | ug/L | 0.003 | 33 | 4 | 6 | 8 | KED |
| Cd | 114 | 0.023 | ug/L | 0.002 | 8 | 4 | 16 | 6 | KED |
| > In | 115 | | ug/L | | | 367469 | 369868 | 1 | Standard |
| Ag | 107 | 0.001 | ug/L | 0.000 | 41 | 86 | 100 | 5 | Standard |
| Ba | 135 | 0.693 | ug/L | 0.015 | 2 | 23 | 2165 | 2 | Standard |
| Ba | 137 | 0.653 | ug/L | 0.008 | 1 | 37 | 3623 | 3 | Standard |
| > Tb | 159 | | ug/L | | | 619766 | 635810 | 1 | Standard |
| Pb | 208 | 0.040 | ug/L | 0.001 | 2 | 178 | 1765 | 1 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **BLD0102-MS2**

Sample Dil Factor: **10**

Comments:

Sample Date/Time: **Saturday, April 08, 2023 06:57:33**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 33004 | 38657 | 2 | Standard |
| Cl | 37 | | ug/L | | | 4319075 | 4085843 | 1 | Standard |
| > Sc | 45 | | ug/L | | | 460811 | 500054 | 1 | Standard |
| Cr | 52 | 2.839 | ug/L | 0.073 | 2 | 14116 | 61858 | 0 | Standard |
| Cr | 53 | 3.203 | ug/L | 0.033 | 1 | 169 | 6246 | 1 | Standard |
| Mn | 55 | 32.829 | ug/L | 1.001 | 3 | 2166 | 758392 | 2 | Standard |
| > Ge | 72 | | ug/L | | | 25853 | 26269 | 3 | KED |
| Ni | 60 | 907.692 | ug/L | 28.471 | 3 | 24 | 905276 | 2 | KED |
| Ni | 62 | 918.816 | ug/L | 49.867 | 5 | 9 | 149304 | 2 | KED |
| Cu | 63 | 5.148 | ug/L | 0.164 | 3 | 49 | 15016 | 1 | KED |
| Cu | 65 | 5.206 | ug/L | 0.116 | 2 | 27 | 7502 | 0 | KED |
| Zn | 66 | 15.449 | ug/L | 0.484 | 3 | 20 | 5709 | 0 | KED |
| Zn | 67 | 13.936 | ug/L | 1.361 | 9 | 4 | 857 | 6 | KED |
| As | 75 | 2.733 | ug/L | 0.109 | 4 | 6 | 530 | 1 | KED |
| Se | 78 | 8.833 | ug/L | 0.705 | 7 | 19 | 209 | 5 | KED |
| Y | 89 | | ug/L | | | 261932 | 292180 | 2 | Standard |
| Kr | 83 | | ug/L | | | 49 | 54 | 29 | Standard |
| > In-1 | 115 | | ug/L | | | 7009 | 7320 | 2 | KED |
| Cd | 111 | 2.703 | ug/L | 0.054 | 2 | 4 | 588 | 1 | KED |
| Cd | 114 | 2.848 | ug/L | 0.108 | 3 | 4 | 1518 | 1 | KED |
| > In | 115 | | ug/L | | | 367469 | 365077 | 0 | Standard |
| Ag | 107 | 2.837 | ug/L | 0.050 | 1 | 86 | 34611 | 2 | Standard |
| Ba | 135 | 3.549 | ug/L | 0.067 | 1 | 23 | 10852 | 1 | Standard |
| Ba | 137 | 3.486 | ug/L | 0.017 | 0 | 37 | 18921 | 0 | Standard |
| > Tb | 159 | | ug/L | | | 619766 | 625315 | 2 | Standard |
| Pb | 208 | 3.036 | ug/L | 0.071 | 2 | 178 | 117761 | 1 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **BLD0102-MSD2**

Sample Dil Factor: **10**

Comments:

Sample Date/Time: **Saturday, April 08, 2023 07:03:41**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 33004 | 38679 | 0 | Standard |
| Cl | 37 | | ug/L | | | 4319075 | 4114938 | 0 | Standard |
| > Sc | 45 | | ug/L | | | 460811 | 511894 | 1 | Standard |
| Cr | 52 | 2.675 | ug/L | 0.083 | 3 | 14116 | 60589 | 1 | Standard |
| Cr | 53 | 3.078 | ug/L | 0.080 | 2 | 169 | 6152 | 1 | Standard |
| Mn | 55 | 31.300 | ug/L | 0.658 | 2 | 2166 | 740330 | 0 | Standard |
| > Ge | 72 | | ug/L | | | 25853 | 26204 | 2 | KED |
| Ni | 60 | 900.873 | ug/L | 9.707 | 1 | 24 | 896640 | 2 | KED |
| Ni | 62 | 907.430 | ug/L | 35.402 | 3 | 9 | 147165 | 2 | KED |
| Cu | 63 | 5.137 | ug/L | 0.159 | 3 | 49 | 14954 | 3 | KED |
| Cu | 65 | 5.108 | ug/L | 0.086 | 1 | 27 | 7344 | 0 | KED |
| Zn | 66 | 15.371 | ug/L | 0.293 | 1 | 20 | 5669 | 2 | KED |
| Zn | 67 | 13.914 | ug/L | 0.678 | 4 | 4 | 854 | 2 | KED |
| As | 75 | 2.848 | ug/L | 0.141 | 4 | 6 | 551 | 2 | KED |
| Se | 78 | 8.961 | ug/L | 0.454 | 5 | 19 | 212 | 5 | KED |
| Y | 89 | | ug/L | | | 261932 | 292505 | 0 | Standard |
| Kr | 83 | | ug/L | | | 49 | 53 | 10 | Standard |
| > In-1 | 115 | | ug/L | | | 7009 | 7210 | 2 | KED |
| Cd | 111 | 2.801 | ug/L | 0.195 | 6 | 4 | 600 | 5 | KED |
| Cd | 114 | 2.770 | ug/L | 0.110 | 3 | 4 | 1455 | 2 | KED |
| > In | 115 | | ug/L | | | 367469 | 368376 | 1 | Standard |
| Ag | 107 | 2.571 | ug/L | 0.070 | 2 | 86 | 31646 | 1 | Standard |
| Ba | 135 | 3.458 | ug/L | 0.106 | 3 | 23 | 10668 | 1 | Standard |
| Ba | 137 | 3.381 | ug/L | 0.054 | 1 | 37 | 18520 | 2 | Standard |
| > Tb | 159 | | ug/L | | | 619766 | 625888 | 1 | Standard |
| Pb | 208 | 3.014 | ug/L | 0.071 | 2 | 178 | 117024 | 0 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLJ

Sample Dil Factor:

Comments:

Sample Date/Time: Saturday, April 08, 2023 07:08:20

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 33004 | 33828 | 2 | Standard |
| Cl | 37 | | ug/L | | | 4319075 | 4028033 | 1 | Standard |
| [> Sc | 45 | | ug/L | | | 460811 | 460507 | 0 | Standard |
| Cr | 52 | -0.001 | ug/L | 0.032 | 4647 | 14116 | 14094 | 2 | Standard |
| Cr | 53 | 0.107 | ug/L | 0.008 | 7 | 169 | 355 | 3 | Standard |
| Mn | 55 | -0.060 | ug/L | 0.002 | 3 | 2166 | 890 | 4 | Standard |
| [> Ge | 72 | | ug/L | | | 25853 | 25565 | 1 | KED |
| Ni | 60 | 0.007 | ug/L | 0.009 | 130 | 24 | 30 | 27 | KED |
| Ni | 62 | -0.007 | ug/L | 0.019 | 264 | 9 | 8 | 35 | KED |
| Cu | 63 | 0.002 | ug/L | 0.003 | 138 | 49 | 54 | 13 | KED |
| Cu | 65 | -0.000 | ug/L | 0.001 | 600 | 27 | 26 | 7 | KED |
| Zn | 66 | 0.024 | ug/L | 0.012 | 49 | 20 | 29 | 13 | KED |
| Zn | 67 | -0.020 | ug/L | 0.019 | 91 | 4 | 3 | 34 | KED |
| As | 75 | -0.010 | ug/L | 0.005 | 49 | 6 | 4 | 20 | KED |
| Se | 78 | -0.185 | ug/L | 0.026 | 14 | 19 | 15 | 4 | KED |
| Y | 89 | | ug/L | | | 261932 | 261866 | 3 | Standard |
| Kr | 83 | | ug/L | | | 49 | 43 | 15 | Standard |
| [> In-1 | 115 | | ug/L | | | 7009 | 6748 | 1 | KED |
| Cd | 111 | -0.002 | ug/L | 0.008 | 330 | 4 | 3 | 43 | KED |
| Cd | 114 | 0.000 | ug/L | 0.012 | 2876 | 4 | 4 | 139 | KED |
| [> In | 115 | | ug/L | | | 367469 | 356822 | 1 | Standard |
| Ag | 107 | -0.003 | ug/L | 0.001 | 27 | 86 | 43 | 26 | Standard |
| Ba | 135 | 0.002 | ug/L | 0.001 | 52 | 23 | 29 | 13 | Standard |
| Ba | 137 | 0.004 | ug/L | 0.002 | 40 | 37 | 57 | 16 | Standard |
| [> Tb | 159 | | ug/L | | | 619766 | 599751 | 0 | Standard |
| Pb | 208 | 0.002 | ug/L | 0.000 | 8 | 178 | 248 | 2 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVJ

Sample Dil Factor:

Comments:

Sample Date/Time: Saturday, April 08, 2023 07:13:04

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 33004 | 33881 | 1 | Standard |
| Cl | 37 | | ug/L | | | 4319075 | 4259558 | 0 | Standard |
| [> Sc | 45 | | ug/L | | | 460811 | 480147 | 0 | Standard |
| Cr | 52 | 50.916 | ug/L | 0.666 | 1 | 14116 | 816569 | 1 | Standard |
| Cr | 53 | 50.908 | ug/L | 0.767 | 1 | 169 | 92701 | 0 | Standard |
| Mn | 55 | 52.214 | ug/L | 1.257 | 2 | 2166 | 1157006 | 1 | Standard |
| [> Ge | 72 | | ug/L | | | 25853 | 26096 | 0 | KED |
| Ni | 60 | 48.710 | ug/L | 0.952 | 1 | 24 | 48301 | 1 | KED |
| Ni | 62 | 48.618 | ug/L | 0.319 | 0 | 9 | 7865 | 0 | KED |
| Cu | 63 | 50.737 | ug/L | 0.601 | 1 | 49 | 146685 | 1 | KED |
| Cu | 65 | 50.736 | ug/L | 0.930 | 1 | 27 | 72438 | 2 | KED |
| Zn | 66 | 50.084 | ug/L | 1.071 | 2 | 20 | 18348 | 1 | KED |
| Zn | 67 | 49.719 | ug/L | 0.981 | 1 | 4 | 3032 | 1 | KED |
| As | 75 | 50.254 | ug/L | 1.007 | 2 | 6 | 9586 | 1 | KED |
| [Se | 78 | 48.127 | ug/L | 0.246 | 0 | 19 | 1049 | 0 | KED |
| Y | 89 | | ug/L | | | 261932 | 274405 | 0 | Standard |
| Kr | 83 | | ug/L | | | 49 | 62 | 28 | Standard |
| [> In-1 | 115 | | ug/L | | | 7009 | 7072 | 0 | KED |
| Cd | 111 | 51.301 | ug/L | 0.601 | 1 | 4 | 10720 | 0 | KED |
| [Cd | 114 | 50.411 | ug/L | 0.708 | 1 | 4 | 25914 | 0 | KED |
| [> In | 115 | | ug/L | | | 367469 | 363199 | 0 | Standard |
| Ag | 107 | 51.106 | ug/L | 1.963 | 3 | 86 | 618652 | 3 | Standard |
| Ba | 135 | 51.457 | ug/L | 0.511 | 0 | 23 | 156246 | 0 | Standard |
| [Ba | 137 | 50.481 | ug/L | 1.041 | 2 | 37 | 272055 | 1 | Standard |
| [> Tb | 159 | | ug/L | | | 619766 | 634708 | 2 | Standard |
| [Pb | 208 | 52.450 | ug/L | 1.624 | 3 | 178 | 2061414 | 0 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBJ

Sample Dil Factor:

Comments:

Sample Date/Time: Saturday, April 08, 2023 07:20:32

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|--------------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 33004 | 33133 | 0 | Standard |
| Cl | 37 | | ug/L | | | 4319075 | 4189070 | 0 | Standard |
| [> Sc | 45 | | ug/L | | | 460811 | 458634 | 2 | Standard |
| Cr | 52 | -0.009 | ug/L | 0.005 | 55 | 14116 | 13907 | 1 | Standard |
| Cr | 53 | 0.059 | ug/L | 0.009 | 14 | 169 | 271 | 4 | Standard |
| Mn | 55 | -0.061 | ug/L | 0.002 | 2 | 2166 | 871 | 2 | Standard |
| [> Ge | 72 | | ug/L | | | 25853 | 25051 | 0 | KED |
| Ni | 60 | -0.011 | ug/L | 0.007 | 66 | 24 | 13 | 49 | KED |
| Ni | 62 | -0.035 | ug/L | 0.012 | 35 | 9 | 3 | 50 | KED |
| Cu | 63 | -0.001 | ug/L | 0.003 | 170 | 49 | 43 | 15 | KED |
| Cu | 65 | -0.002 | ug/L | 0.002 | 75 | 27 | 23 | 9 | KED |
| Zn | 66 | 0.002 | ug/L | 0.014 | 776 | 20 | 20 | 24 | KED |
| Zn | 67 | -0.052 | ug/L | 0.038 | 72 | 4 | 1 | 173 | KED |
| As | 75 | -0.001 | ug/L | 0.008 | 1235 | 6 | 6 | 22 | KED |
| Se | 78 | -0.005 | ug/L | <u>0.284</u> | 5193 | 19 | 18 | 30 | KED |
| Y | 89 | | ug/L | | | 261932 | 254978 | 1 | Standard |
| Kr | 83 | | ug/L | | | 49 | 49 | 31 | Standard |
| [> In-1 | 115 | | ug/L | | | 7009 | 6975 | 3 | KED |
| Cd | 111 | -0.006 | ug/L | 0.016 | 270 | 4 | 3 | 96 | KED |
| Cd | 114 | -0.006 | ug/L | 0.004 | 67 | 4 | 1 | 201 | KED |
| [> In | 115 | | ug/L | | | 367469 | 348767 | 1 | Standard |
| Ag | 107 | -0.003 | ug/L | 0.001 | 34 | 86 | 49 | 23 | Standard |
| Ba | 135 | 0.001 | ug/L | 0.002 | 173 | 23 | 25 | 21 | Standard |
| Ba | 137 | 0.001 | ug/L | 0.003 | 211 | 37 | 42 | 34 | Standard |
| [> Tb | 159 | | ug/L | | | 619766 | 598042 | 0 | Standard |
| Pb | 208 | -0.002 | ug/L | 0.000 | 11 | 178 | 116 | 5 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: RINSE

Sample Dil Factor:

Comments:

Sample Date/Time: Saturday, April 08, 2023 07:25:17

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 33004 | 39943 | 2 | Standard |
| Cl | 37 | | ug/L | | | 4319075 | 4308726 | 0 | Standard |
| [> Sc | 45 | | ug/L | | | 460811 | 555656 | 0 | Standard |
| Cr | 52 | 0.063 | ug/L | 0.015 | 23 | 14116 | 18167 | 0 | Standard |
| Cr | 53 | 0.038 | ug/L | 0.002 | 4 | 169 | 284 | 1 | Standard |
| Mn | 55 | -0.033 | ug/L | 0.002 | 4 | 2166 | 1767 | 2 | Standard |
| [> Ge | 72 | | ug/L | | | 25853 | 27474 | 2 | KED |
| Ni | 60 | -0.011 | ug/L | 0.004 | 41 | 24 | 14 | 30 | KED |
| Ni | 62 | -0.037 | ug/L | 0.012 | 31 | 9 | 3 | 50 | KED |
| Cu | 63 | 0.002 | ug/L | 0.003 | 145 | 49 | 59 | 18 | KED |
| Cu | 65 | 0.003 | ug/L | 0.004 | 113 | 27 | 33 | 14 | KED |
| Zn | 66 | 0.016 | ug/L | 0.008 | 51 | 20 | 28 | 13 | KED |
| Zn | 67 | -0.024 | ug/L | 0.017 | 72 | 4 | 3 | 34 | KED |
| As | 75 | -0.018 | ug/L | 0.008 | 45 | 6 | 3 | 47 | KED |
| Se | 78 | -0.209 | ug/L | 0.108 | 51 | 19 | 16 | 16 | KED |
| Y | 89 | | ug/L | | | 261932 | 310184 | 2 | Standard |
| Kr | 83 | | ug/L | | | 49 | 48 | 25 | Standard |
| [> In-1 | 115 | | ug/L | | | 7009 | 7751 | 1 | KED |
| Cd | 111 | -0.003 | ug/L | 0.005 | 135 | 4 | 4 | 26 | KED |
| Cd | 114 | 0.001 | ug/L | 0.006 | 419 | 4 | 5 | 58 | KED |
| [> In | 115 | | ug/L | | | 367469 | 404795 | 2 | Standard |
| Ag | 107 | -0.002 | ug/L | 0.001 | 33 | 86 | 69 | 15 | Standard |
| Ba | 135 | -0.004 | ug/L | 0.001 | 34 | 23 | 11 | 44 | Standard |
| Ba | 137 | -0.002 | ug/L | 0.000 | 6 | 37 | 31 | 3 | Standard |
| [> Tb | 159 | | ug/L | | | 619766 | 672425 | 0 | Standard |
| Pb | 208 | -0.002 | ug/L | 0.000 | 26 | 178 | 125 | 13 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: RINSE

Sample Dil Factor:

Comments:

Sample Date/Time: Saturday, April 08, 2023 07:30:01

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 33004 | 40364 | 0 | Standard |
| Cl | 37 | | ug/L | | | 4319075 | 4363259 | 1 | Standard |
| [> Sc | 45 | | ug/L | | | 460811 | 565038 | 2 | Standard |
| Cr | 52 | 0.016 | ug/L | 0.017 | 103 | 14116 | 17604 | 1 | Standard |
| Cr | 53 | 0.037 | ug/L | 0.002 | 6 | 169 | 287 | 3 | Standard |
| Mn | 55 | -0.034 | ug/L | 0.002 | 4 | 2166 | 1782 | 2 | Standard |
| [> Ge | 72 | | ug/L | | | 25853 | 27372 | 1 | KED |
| Ni | 60 | -0.009 | ug/L | 0.009 | 102 | 24 | 15 | 59 | KED |
| Ni | 62 | -0.041 | ug/L | 0.013 | 33 | 9 | 3 | 69 | KED |
| Cu | 63 | 0.004 | ug/L | 0.005 | 114 | 49 | 65 | 23 | KED |
| Cu | 65 | -0.001 | ug/L | 0.005 | 724 | 27 | 27 | 23 | KED |
| Zn | 66 | -0.005 | ug/L | 0.007 | 140 | 20 | 20 | 10 | KED |
| Zn | 67 | -0.005 | ug/L | 0.061 | 1268 | 4 | 4 | 89 | KED |
| As | 75 | -0.012 | ug/L | 0.004 | 29 | 6 | 4 | 15 | KED |
| Se | 78 | -0.295 | ug/L | 0.243 | 82 | 19 | 13 | 37 | KED |
| Y | 89 | | ug/L | | | 261932 | 307041 | 0 | Standard |
| Kr | 83 | | ug/L | | | 49 | 52 | 2 | Standard |
| [> In-1 | 115 | | ug/L | | | 7009 | 7767 | 2 | KED |
| Cd | 111 | -0.005 | ug/L | 0.011 | 233 | 4 | 3 | 66 | KED |
| Cd | 114 | 0.001 | ug/L | 0.006 | 483 | 4 | 5 | 61 | KED |
| [> In | 115 | | ug/L | | | 367469 | 398721 | 1 | Standard |
| Ag | 107 | -0.004 | ug/L | 0.000 | 5 | 86 | 40 | 8 | Standard |
| Ba | 135 | 0.001 | ug/L | 0.002 | 429 | 23 | 27 | 28 | Standard |
| Ba | 137 | -0.000 | ug/L | 0.001 | 185 | 37 | 38 | 10 | Standard |
| [> Tb | 159 | | ug/L | | | 619766 | 680369 | 0 | Standard |
| Pb | 208 | -0.002 | ug/L | 0.000 | 17 | 178 | 106 | 15 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: RINSE

Sample Dil Factor:

Comments:

Sample Date/Time: Saturday, April 08, 2023 07:34:46

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 33004 | 40364 | 1 | Standard |
| Cl | 37 | | ug/L | | | 4319075 | 4353046 | 1 | Standard |
| [> Sc | 45 | | ug/L | | | 460811 | 556774 | 1 | Standard |
| Cr | 52 | 0.045 | ug/L | 0.044 | 97 | 14116 | 17875 | 2 | Standard |
| Cr | 53 | 0.033 | ug/L | 0.009 | 26 | 169 | 274 | 5 | Standard |
| Mn | 55 | -0.033 | ug/L | 0.002 | 5 | 2166 | 1759 | 0 | Standard |
| [> Ge | 72 | | ug/L | | | 25853 | 27232 | 0 | KED |
| Ni | 60 | -0.011 | ug/L | 0.005 | 42 | 24 | 13 | 34 | KED |
| Ni | 62 | -0.029 | ug/L | 0.017 | 59 | 9 | 5 | 57 | KED |
| Cu | 63 | 0.002 | ug/L | 0.005 | 264 | 49 | 57 | 25 | KED |
| Cu | 65 | -0.001 | ug/L | 0.004 | 716 | 27 | 27 | 20 | KED |
| Zn | 66 | 0.000 | ug/L | 0.008 | 1920 | 20 | 22 | 13 | KED |
| Zn | 67 | 0.026 | ug/L | 0.063 | 237 | 4 | 6 | 62 | KED |
| As | 75 | -0.014 | ug/L | 0.006 | 46 | 6 | 4 | 29 | KED |
| Se | 78 | -0.073 | ug/L | 0.192 | 262 | 19 | 18 | 22 | KED |
| Y | 89 | | ug/L | | | 261932 | 307782 | 1 | Standard |
| Kr | 83 | | ug/L | | | 49 | 33 | 18 | Standard |
| [> In-1 | 115 | | ug/L | | | 7009 | 7539 | 1 | KED |
| Cd | 111 | -0.009 | ug/L | 0.007 | 82 | 4 | 2 | 57 | KED |
| Cd | 114 | 0.002 | ug/L | 0.004 | 214 | 4 | 5 | 33 | KED |
| [> In | 115 | | ug/L | | | 367469 | 395033 | 0 | Standard |
| Ag | 107 | -0.004 | ug/L | 0.000 | 8 | 86 | 43 | 9 | Standard |
| Ba | 135 | -0.001 | ug/L | 0.003 | 210 | 23 | 20 | 51 | Standard |
| Ba | 137 | -0.000 | ug/L | 0.003 | 690 | 37 | 38 | 39 | Standard |
| [> Tb | 159 | | ug/L | | | 619766 | 675344 | 1 | Standard |
| Pb | 208 | -0.002 | ug/L | 0.000 | 6 | 178 | 91 | 8 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: DI

Sample Dil Factor:

Comments:

Sample Date/Time: Saturday, April 08, 2023 07:39:30

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 33004 | 33567 | 0 | Standard |
| Cl | 37 | | ug/L | | | 4319075 | 3864233 | 0 | Standard |
| [> Sc | 45 | | ug/L | | | 460811 | 405568 | 0 | Standard |
| Cr | 52 | 0.041 | ug/L | 0.018 | 42 | 14116 | 12974 | 2 | Standard |
| Cr | 53 | 0.033 | ug/L | 0.007 | 21 | 169 | 200 | 5 | Standard |
| Mn | 55 | -0.031 | ug/L | 0.001 | 1 | 2166 | 1324 | 0 | Standard |
| [> Ge | 72 | | ug/L | | | 25853 | 24235 | 0 | KED |
| Ni | 60 | -0.013 | ug/L | 0.004 | 34 | 24 | 10 | 36 | KED |
| Ni | 62 | -0.021 | ug/L | 0.013 | 58 | 9 | 5 | 33 | KED |
| Cu | 63 | -0.005 | ug/L | 0.000 | 6 | 49 | 33 | 3 | KED |
| Cu | 65 | -0.007 | ug/L | 0.003 | 45 | 27 | 16 | 24 | KED |
| Zn | 66 | -0.006 | ug/L | 0.011 | 204 | 20 | 17 | 22 | KED |
| Zn | 67 | -0.051 | ug/L | 0.039 | 75 | 4 | 1 | 173 | KED |
| As | 75 | -0.008 | ug/L | 0.009 | 108 | 6 | 4 | 34 | KED |
| Se | 78 | -0.208 | ug/L | 0.052 | 25 | 19 | 14 | 6 | KED |
| Y | 89 | | ug/L | | | 261932 | 242430 | 2 | Standard |
| Kr | 83 | | ug/L | | | 49 | 37 | 17 | Standard |
| [> In-1 | 115 | | ug/L | | | 7009 | 6584 | 2 | KED |
| Cd | 111 | 0.006 | ug/L | 0.015 | 250 | 4 | 5 | 56 | KED |
| Cd | 114 | -0.002 | ug/L | 0.002 | 94 | 4 | 3 | 32 | KED |
| [> In | 115 | | ug/L | | | 367469 | 332071 | 3 | Standard |
| Ag | 107 | -0.004 | ug/L | 0.001 | 19 | 86 | 34 | 27 | Standard |
| Ba | 135 | -0.006 | ug/L | 0.001 | 17 | 23 | 5 | 57 | Standard |
| Ba | 137 | -0.006 | ug/L | 0.001 | 13 | 37 | 5 | 66 | Standard |
| [> Tb | 159 | | ug/L | | | 619766 | 576763 | 2 | Standard |
| Pb | 208 | -0.004 | ug/L | 0.000 | 7 | 178 | 40 | 23 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: DI

Sample Dil Factor:

Comments:

Sample Date/Time: Saturday, April 08, 2023 07:44:14

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 33004 | 34177 | 1 | Standard |
| Cl | 37 | | ug/L | | | 4319075 | 3920106 | 2 | Standard |
| [> Sc | 45 | | ug/L | | | 460811 | 418563 | 1 | Standard |
| Cr | 52 | 0.025 | ug/L | 0.028 | 112 | 14116 | 13167 | 2 | Standard |
| Cr | 53 | 0.025 | ug/L | 0.004 | 16 | 169 | 193 | 2 | Standard |
| Mn | 55 | -0.042 | ug/L | 0.001 | 3 | 2166 | 1160 | 1 | Standard |
| [> Ge | 72 | | ug/L | | | 25853 | 23874 | 1 | KED |
| Ni | 60 | -0.013 | ug/L | 0.006 | 50 | 24 | 10 | 53 | KED |
| Ni | 62 | -0.034 | ug/L | 0.000 | 0 | 9 | 3 | 0 | KED |
| Cu | 63 | -0.004 | ug/L | 0.003 | 67 | 49 | 35 | 20 | KED |
| Cu | 65 | -0.011 | ug/L | 0.003 | 27 | 27 | 10 | 36 | KED |
| Zn | 66 | -0.025 | ug/L | 0.013 | 52 | 20 | 10 | 40 | KED |
| Zn | 67 | -0.051 | ug/L | 0.020 | 39 | 4 | 1 | 86 | KED |
| As | 75 | 0.000 | ug/L | 0.002 | 1315 | 6 | 6 | 7 | KED |
| [Se | 78 | 0.013 | ug/L | 0.045 | 344 | 19 | 18 | 3 | KED |
| Y | 89 | | ug/L | | | 261932 | 239325 | 2 | Standard |
| Kr | 83 | | ug/L | | | 49 | 43 | 18 | Standard |
| [> In-1 | 115 | | ug/L | | | 7009 | 6563 | 1 | KED |
| Cd | 111 | 0.003 | ug/L | 0.000 | 14 | 4 | 4 | 0 | KED |
| Cd | 114 | 0.001 | ug/L | 0.010 | 1270 | 4 | 4 | 101 | KED |
| [> In | 115 | | ug/L | | | 367469 | 337531 | 1 | Standard |
| Ag | 107 | -0.004 | ug/L | 0.000 | 7 | 86 | 36 | 7 | Standard |
| Ba | 135 | -0.006 | ug/L | 0.001 | 19 | 23 | 5 | 57 | Standard |
| [Ba | 137 | -0.006 | ug/L | 0.001 | 13 | 37 | 5 | 78 | Standard |
| [> Tb | 159 | | ug/L | | | 619766 | 563396 | 1 | Standard |
| [Pb | 208 | -0.004 | ug/L | 0.000 | 5 | 178 | 27 | 25 | Standard |

ICP-MS Quantitative Analysis - Summary Report

Sample ID: DI

Sample Dil Factor:

Comments:

Sample Date/Time: Saturday, April 08, 2023 07:48:59

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8_DailyMethod_KED+UCT.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\040723A.cal

| Analyte | Mass | Conc. Mean | Units | Conc. SD | Conc. RSD | Blank Intens. | Meas. Intens. | Intens. RSD | Mode |
|---------|------|------------|-------|----------|-----------|---------------|---------------|-------------|----------|
| C | 13 | | ug/L | | | 33004 | 34374 | 2 | Standard |
| Cl | 37 | | ug/L | | | 4319075 | 3906439 | 0 | Standard |
| [> Sc | 45 | | ug/L | | | 460811 | 423964 | 2 | Standard |
| Cr | 52 | 0.000 | ug/L | 0.047 | 61488 | 14116 | 12978 | 2 | Standard |
| Cr | 53 | 0.039 | ug/L | 0.013 | 32 | 169 | 219 | 11 | Standard |
| Mn | 55 | -0.048 | ug/L | 0.001 | 1 | 2166 | 1058 | 3 | Standard |
| [> Ge | 72 | | ug/L | | | 25853 | 24542 | 0 | KED |
| Ni | 60 | -0.018 | ug/L | 0.001 | 6 | 24 | 6 | 17 | KED |
| Ni | 62 | -0.009 | ug/L | 0.044 | 475 | 9 | 7 | 86 | KED |
| Cu | 63 | -0.009 | ug/L | 0.001 | 12 | 49 | 23 | 12 | KED |
| Cu | 65 | -0.010 | ug/L | 0.003 | 30 | 27 | 12 | 31 | KED |
| Zn | 66 | -0.043 | ug/L | 0.013 | 29 | 20 | 5 | 86 | KED |
| Zn | 67 | -0.007 | ug/L | 0.034 | 477 | 4 | 3 | 50 | KED |
| As | 75 | -0.008 | ug/L | 0.006 | 73 | 6 | 4 | 20 | KED |
| [Se | 78 | -0.342 | ug/L | 0.068 | 20 | 19 | 11 | 11 | KED |
| Y | 89 | | ug/L | | | 261932 | 240577 | 0 | Standard |
| Kr | 83 | | ug/L | | | 49 | 42 | 16 | Standard |
| [> In-1 | 115 | | ug/L | | | 7009 | 6528 | 1 | KED |
| Cd | 111 | 0.010 | ug/L | 0.017 | 173 | 4 | 6 | 55 | KED |
| Cd | 114 | -0.002 | ug/L | 0.002 | 110 | 4 | 3 | 34 | KED |
| [> In | 115 | | ug/L | | | 367469 | 333818 | 1 | Standard |
| Ag | 107 | -0.004 | ug/L | 0.001 | 32 | 86 | 39 | 31 | Standard |
| Ba | 135 | -0.006 | ug/L | 0.001 | 10 | 23 | 3 | 50 | Standard |
| [Ba | 137 | -0.006 | ug/L | 0.000 | 6 | 37 | 5 | 33 | Standard |
| [> Tb | 159 | | ug/L | | | 619766 | 572239 | 1 | Standard |
| [Pb | 208 | -0.004 | ug/L | 0.000 | 4 | 178 | 26 | 23 | Standard |



**INITIAL AND CONTINUING
CALIBRATION CHECK
EPA 6020B UCT-KED**

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: ICPMS2

Calibration: GD00024

Control Limit: +/- 10.00%

Sequence: SLD0127

| Lab Sample ID | Analyte | True | Found | %R | Units | Method |
|---------------|--------------|-------------|--------|------|-------|-----------------|
| SLD0127-ICV1 | Arsenic-75a | 50.000 | 46.5 | 93.1 | ug/L | PA 6020B UCT-KE |
| | Cadmium-111 | 50.000 | 49.7 | 99.5 | ug/L | PA 6020B UCT-KE |
| | Cadmium-114 | 50.000 | 48.9 | 97.9 | ug/L | PA 6020B UCT-KE |
| | Copper-63 | 50.000 | 50.1 | 100 | ug/L | PA 6020B UCT-KE |
| | Copper-65 | 50.000 | 50.2 | 100 | ug/L | PA 6020B UCT-KE |
| | Zinc-66 | 50.000 | 48.6 | 97.1 | ug/L | PA 6020B UCT-KE |
| | Zinc-67 | 50.000 | 48.6 | 97.3 | ug/L | PA 6020B UCT-KE |
| | SLD0127-CCV1 | Arsenic-75a | 50.000 | 49.6 | 99.3 | ug/L |
| Cadmium-111 | | 50.000 | 49.5 | 98.9 | ug/L | PA 6020B UCT-KE |
| Cadmium-114 | | 50.000 | 49.7 | 99.5 | ug/L | PA 6020B UCT-KE |
| Copper-63 | | 50.000 | 50.1 | 100 | ug/L | PA 6020B UCT-KE |
| Copper-65 | | 50.000 | 50.2 | 100 | ug/L | PA 6020B UCT-KE |
| Zinc-66 | | 50.000 | 50.7 | 101 | ug/L | PA 6020B UCT-KE |
| Zinc-67 | | 50.000 | 50.6 | 101 | ug/L | PA 6020B UCT-KE |
| SLD0127-CCV2 | | Arsenic-75a | 50.000 | 49.3 | 98.5 | ug/L |
| | Cadmium-111 | 50.000 | 50.3 | 101 | ug/L | PA 6020B UCT-KE |
| | Cadmium-114 | 50.000 | 50.4 | 101 | ug/L | PA 6020B UCT-KE |
| | Copper-63 | 50.000 | 49.2 | 98.5 | ug/L | PA 6020B UCT-KE |
| | Copper-65 | 50.000 | 49.2 | 98.5 | ug/L | PA 6020B UCT-KE |
| | Zinc-66 | 50.000 | 49.6 | 99.1 | ug/L | PA 6020B UCT-KE |
| | Zinc-67 | 50.000 | 51.1 | 102 | ug/L | PA 6020B UCT-KE |
| | SLD0127-CCV3 | Arsenic-75a | 50.000 | 49.3 | 98.7 | ug/L |
| Cadmium-111 | | 50.000 | 49.1 | 98.2 | ug/L | PA 6020B UCT-KE |
| Cadmium-114 | | 50.000 | 48.7 | 97.3 | ug/L | PA 6020B UCT-KE |
| Copper-63 | | 50.000 | 49.6 | 99.2 | ug/L | PA 6020B UCT-KE |
| Copper-65 | | 50.000 | 49.2 | 98.4 | ug/L | PA 6020B UCT-KE |
| Zinc-66 | | 50.000 | 50.0 | 99.9 | ug/L | PA 6020B UCT-KE |
| Zinc-67 | | 50.000 | 49.3 | 98.7 | ug/L | PA 6020B UCT-KE |
| SLD0127-CCV4 | | Arsenic-75a | 50.000 | 49.3 | 98.5 | ug/L |
| | Cadmium-111 | 50.000 | 50.1 | 100 | ug/L | PA 6020B UCT-KE |
| | Cadmium-114 | 50.000 | 49.6 | 99.3 | ug/L | PA 6020B UCT-KE |
| | Copper-63 | 50.000 | 48.5 | 97.0 | ug/L | PA 6020B UCT-KE |
| | Copper-65 | 50.000 | 49.4 | 98.8 | ug/L | PA 6020B UCT-KE |
| | Zinc-66 | 50.000 | 49.5 | 99.0 | ug/L | PA 6020B UCT-KE |



**INITIAL AND CONTINUING
CALIBRATION CHECK
EPA 6020B UCT-KED**

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: ICPMS2

Calibration: GD00024

Control Limit: +/- 10.00%

Sequence: SLD0127

| Lab Sample ID | Analyte | True | Found | %R | Units | Method |
|---------------|-------------|--------|-------|------|-------|-----------------|
| SLD0127-CCV4 | Zinc-67 | 50.000 | 50.5 | 101 | ug/L | PA 6020B UCT-KE |
| SLD0127-CCV5 | Arsenic-75a | 50.000 | 50.3 | 101 | ug/L | PA 6020B UCT-KE |
| | Cadmium-111 | 50.000 | 48.3 | 96.6 | ug/L | PA 6020B UCT-KE |
| | Cadmium-114 | 50.000 | 48.9 | 97.9 | ug/L | PA 6020B UCT-KE |
| | Copper-63 | 50.000 | 48.7 | 97.4 | ug/L | PA 6020B UCT-KE |
| | Copper-65 | 50.000 | 49.7 | 99.4 | ug/L | PA 6020B UCT-KE |
| | Zinc-66 | 50.000 | 50.0 | 100 | ug/L | PA 6020B UCT-KE |
| | Zinc-67 | 50.000 | 50.0 | 99.9 | ug/L | PA 6020B UCT-KE |
| SLD0127-CCV6 | Arsenic-75a | 50.000 | 49.9 | 99.7 | ug/L | PA 6020B UCT-KE |
| | Cadmium-111 | 50.000 | 50.0 | 100 | ug/L | PA 6020B UCT-KE |
| | Cadmium-114 | 50.000 | 49.9 | 99.7 | ug/L | PA 6020B UCT-KE |
| | Copper-63 | 50.000 | 49.6 | 99.3 | ug/L | PA 6020B UCT-KE |
| | Copper-65 | 50.000 | 49.7 | 99.4 | ug/L | PA 6020B UCT-KE |
| | Zinc-66 | 50.000 | 50.2 | 100 | ug/L | PA 6020B UCT-KE |
| | Zinc-67 | 50.000 | 51.3 | 103 | ug/L | PA 6020B UCT-KE |
| SLD0127-CCV7 | Arsenic-75a | 50.000 | 49.3 | 98.5 | ug/L | PA 6020B UCT-KE |
| | Cadmium-111 | 50.000 | 49.1 | 98.3 | ug/L | PA 6020B UCT-KE |
| | Cadmium-114 | 50.000 | 49.8 | 99.6 | ug/L | PA 6020B UCT-KE |
| | Copper-63 | 50.000 | 48.2 | 96.4 | ug/L | PA 6020B UCT-KE |
| | Copper-65 | 50.000 | 48.3 | 96.7 | ug/L | PA 6020B UCT-KE |
| | Zinc-66 | 50.000 | 49.9 | 99.9 | ug/L | PA 6020B UCT-KE |
| | Zinc-67 | 50.000 | 49.3 | 98.6 | ug/L | PA 6020B UCT-KE |
| SLD0127-CCV8 | Arsenic-75a | 50.000 | 50.3 | 101 | ug/L | PA 6020B UCT-KE |
| | Cadmium-111 | 50.000 | 49.4 | 98.9 | ug/L | PA 6020B UCT-KE |
| | Cadmium-114 | 50.000 | 49.7 | 99.4 | ug/L | PA 6020B UCT-KE |
| | Copper-63 | 50.000 | 50.1 | 100 | ug/L | PA 6020B UCT-KE |
| | Copper-65 | 50.000 | 49.9 | 99.7 | ug/L | PA 6020B UCT-KE |
| | Zinc-66 | 50.000 | 50.3 | 101 | ug/L | PA 6020B UCT-KE |
| | Zinc-67 | 50.000 | 49.9 | 99.8 | ug/L | PA 6020B UCT-KE |
| SLD0127-CCV9 | Arsenic-75a | 50.000 | 51.2 | 102 | ug/L | PA 6020B UCT-KE |
| | Cadmium-111 | 50.000 | 50.1 | 100 | ug/L | PA 6020B UCT-KE |
| | Cadmium-114 | 50.000 | 49.6 | 99.3 | ug/L | PA 6020B UCT-KE |
| | Copper-63 | 50.000 | 50.8 | 102 | ug/L | PA 6020B UCT-KE |
| | Copper-65 | 50.000 | 51.6 | 103 | ug/L | PA 6020B UCT-KE |



**INITIAL AND CONTINUING
CALIBRATION CHECK
EPA 6020B UCT-KED**

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: ICPMS2

Calibration: GD00024

Control Limit: +/- 10.00%

Sequence: SLD0127

| Lab Sample ID | Analyte | True | Found | %R | Units | Method |
|---------------|-------------|--------|-------|------|-------|-----------------|
| SLD0127-CCV9 | Zinc-66 | 50.000 | 51.5 | 103 | ug/L | PA 6020B UCT-KE |
| | Zinc-67 | 50.000 | 52.0 | 104 | ug/L | PA 6020B UCT-KE |
| SLD0127-CCVA | Arsenic-75a | 50.000 | 50.6 | 101 | ug/L | PA 6020B UCT-KE |
| | Cadmium-111 | 50.000 | 49.6 | 99.1 | ug/L | PA 6020B UCT-KE |
| | Cadmium-114 | 50.000 | 49.1 | 98.2 | ug/L | PA 6020B UCT-KE |
| | Copper-63 | 50.000 | 50.3 | 101 | ug/L | PA 6020B UCT-KE |
| | Copper-65 | 50.000 | 50.0 | 100 | ug/L | PA 6020B UCT-KE |
| | Zinc-66 | 50.000 | 50.2 | 100 | ug/L | PA 6020B UCT-KE |
| SLD0127-CCVB | Zinc-67 | 50.000 | 51.2 | 102 | ug/L | PA 6020B UCT-KE |
| | Arsenic-75a | 50.000 | 50.6 | 101 | ug/L | PA 6020B UCT-KE |
| | Cadmium-111 | 50.000 | 50.3 | 101 | ug/L | PA 6020B UCT-KE |
| | Cadmium-114 | 50.000 | 49.0 | 97.9 | ug/L | PA 6020B UCT-KE |
| | Copper-63 | 50.000 | 49.6 | 99.1 | ug/L | PA 6020B UCT-KE |
| | Copper-65 | 50.000 | 50.3 | 101 | ug/L | PA 6020B UCT-KE |
| SLD0127-CCVC | Zinc-66 | 50.000 | 50.3 | 101 | ug/L | PA 6020B UCT-KE |
| | Zinc-67 | 50.000 | 50.4 | 101 | ug/L | PA 6020B UCT-KE |
| | Arsenic-75a | 50.000 | 50.1 | 100 | ug/L | PA 6020B UCT-KE |
| | Cadmium-111 | 50.000 | 51.2 | 102 | ug/L | PA 6020B UCT-KE |
| | Cadmium-114 | 50.000 | 50.6 | 101 | ug/L | PA 6020B UCT-KE |
| | Copper-63 | 50.000 | 49.2 | 98.4 | ug/L | PA 6020B UCT-KE |
| SLD0127-CCVD | Copper-65 | 50.000 | 49.4 | 98.8 | ug/L | PA 6020B UCT-KE |
| | Zinc-66 | 50.000 | 49.9 | 99.8 | ug/L | PA 6020B UCT-KE |
| | Zinc-67 | 50.000 | 50.9 | 102 | ug/L | PA 6020B UCT-KE |
| | Arsenic-75a | 50.000 | 49.4 | 98.8 | ug/L | PA 6020B UCT-KE |
| | Cadmium-111 | 50.000 | 50.9 | 102 | ug/L | PA 6020B UCT-KE |
| | Cadmium-114 | 50.000 | 50.4 | 101 | ug/L | PA 6020B UCT-KE |
| SLD0127-CCVE | Copper-63 | 50.000 | 49.3 | 98.6 | ug/L | PA 6020B UCT-KE |
| | Copper-65 | 50.000 | 50.4 | 101 | ug/L | PA 6020B UCT-KE |
| | Zinc-66 | 50.000 | 50.3 | 101 | ug/L | PA 6020B UCT-KE |
| | Zinc-67 | 50.000 | 49.5 | 99.0 | ug/L | PA 6020B UCT-KE |
| | Arsenic-75a | 50.000 | 49.5 | 98.9 | ug/L | PA 6020B UCT-KE |
| | Cadmium-111 | 50.000 | 50.9 | 102 | ug/L | PA 6020B UCT-KE |
| SLD0127-CCVE | Cadmium-114 | 50.000 | 51.3 | 103 | ug/L | PA 6020B UCT-KE |
| | Copper-63 | 50.000 | 49.4 | 98.8 | ug/L | PA 6020B UCT-KE |



**INITIAL AND CONTINUING
CALIBRATION CHECK
EPA 6020B UCT-KED**

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: ICPMS2

Calibration: GD00024

Control Limit: +/- 10.00%

Sequence: SLD0127

| Lab Sample ID | Analyte | True | Found | %R | Units | Method |
|---------------|-------------|--------|-------|------|-------|-----------------|
| SLD0127-CCVE | Copper-65 | 50.000 | 49.7 | 99.4 | ug/L | PA 6020B UCT-KE |
| | Zinc-66 | 50.000 | 50.2 | 100 | ug/L | PA 6020B UCT-KE |
| | Zinc-67 | 50.000 | 50.6 | 101 | ug/L | PA 6020B UCT-KE |
| SLD0127-CCVF | Arsenic-75a | 50.000 | 49.2 | 98.3 | ug/L | PA 6020B UCT-KE |
| | Cadmium-111 | 50.000 | 50.6 | 101 | ug/L | PA 6020B UCT-KE |
| | Cadmium-114 | 50.000 | 50.5 | 101 | ug/L | PA 6020B UCT-KE |
| | Copper-63 | 50.000 | 50.1 | 100 | ug/L | PA 6020B UCT-KE |
| | Copper-65 | 50.000 | 49.1 | 98.2 | ug/L | PA 6020B UCT-KE |
| | Zinc-66 | 50.000 | 50.2 | 100 | ug/L | PA 6020B UCT-KE |
| SLD0127-CCVG | Zinc-67 | 50.000 | 49.5 | 98.9 | ug/L | PA 6020B UCT-KE |
| | Arsenic-75a | 50.000 | 50.2 | 100 | ug/L | PA 6020B UCT-KE |
| | Cadmium-111 | 50.000 | 51.3 | 103 | ug/L | PA 6020B UCT-KE |
| | Cadmium-114 | 50.000 | 50.6 | 101 | ug/L | PA 6020B UCT-KE |
| | Copper-63 | 50.000 | 49.6 | 99.2 | ug/L | PA 6020B UCT-KE |
| | Copper-65 | 50.000 | 49.9 | 99.8 | ug/L | PA 6020B UCT-KE |
| SLD0127-CCVH | Zinc-66 | 50.000 | 50.6 | 101 | ug/L | PA 6020B UCT-KE |
| | Zinc-67 | 50.000 | 50.2 | 100 | ug/L | PA 6020B UCT-KE |
| | Arsenic-75a | 50.000 | 49.6 | 99.2 | ug/L | PA 6020B UCT-KE |
| | Cadmium-111 | 50.000 | 51.6 | 103 | ug/L | PA 6020B UCT-KE |
| | Cadmium-114 | 50.000 | 51.3 | 103 | ug/L | PA 6020B UCT-KE |
| | Copper-63 | 50.000 | 50.4 | 101 | ug/L | PA 6020B UCT-KE |
| SLD0127-CCVI | Copper-65 | 50.000 | 51.0 | 102 | ug/L | PA 6020B UCT-KE |
| | Zinc-66 | 50.000 | 51.7 | 103 | ug/L | PA 6020B UCT-KE |
| | Zinc-67 | 50.000 | 51.6 | 103 | ug/L | PA 6020B UCT-KE |
| | Arsenic-75a | 50.000 | 49.4 | 98.8 | ug/L | PA 6020B UCT-KE |
| | Cadmium-111 | 50.000 | 50.6 | 101 | ug/L | PA 6020B UCT-KE |
| | Cadmium-114 | 50.000 | 50.8 | 102 | ug/L | PA 6020B UCT-KE |
| SLD0127-CCVJ | Copper-63 | 50.000 | 50.2 | 100 | ug/L | PA 6020B UCT-KE |
| | Copper-65 | 50.000 | 49.9 | 99.9 | ug/L | PA 6020B UCT-KE |
| | Zinc-66 | 50.000 | 49.9 | 99.8 | ug/L | PA 6020B UCT-KE |
| | Zinc-67 | 50.000 | 50.7 | 101 | ug/L | PA 6020B UCT-KE |
| | Arsenic-75a | 50.000 | 50.3 | 101 | ug/L | PA 6020B UCT-KE |
| | Cadmium-111 | 50.000 | 51.3 | 103 | ug/L | PA 6020B UCT-KE |
| SLD0127-CCVJ | Cadmium-114 | 50.000 | 50.4 | 101 | ug/L | PA 6020B UCT-KE |



**INITIAL AND CONTINUING
CALIBRATION CHECK
EPA 6020B UCT-KED**

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: ICPMS2

Calibration: GD00024

Control Limit: +/- 10.00%

Sequence: SLD0127

| Lab Sample ID | Analyte | True | Found | %R | Units | Method |
|---------------|-----------|--------|-------|------|-------|-----------------|
| SLD0127-CCVJ | Copper-63 | 50.000 | 50.7 | 101 | ug/L | PA 6020B UCT-KE |
| | Copper-65 | 50.000 | 50.7 | 101 | ug/L | PA 6020B UCT-KE |
| | Zinc-66 | 50.000 | 50.1 | 100 | ug/L | PA 6020B UCT-KE |
| | Zinc-67 | 50.000 | 49.7 | 99.4 | ug/L | PA 6020B UCT-KE |

* Values outside of QC limits



INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: ICPMS2

Calibration: GD00024

Sequence: SLD0127

Date Analyzed: 04/07/23 14:35

| Lab Sample ID | Analyte | Found | MDL | MRL | Units | C |
|---------------|-------------|----------|--------|-------|-------|---|
| SLD0127-IBL1 | Arsenic-75a | 0.0110 | 0.0373 | 0.200 | ug/L | |
| SLD0127-IBL1 | Cadmium-111 | 0.00200 | 0.03 | 0.100 | ug/L | |
| SLD0127-IBL1 | Cadmium-114 | -0.00300 | 0.04 | 0.100 | ug/L | |
| SLD0127-IBL1 | Copper-63 | 0.00 | 0.173 | 0.500 | ug/L | |
| SLD0127-IBL1 | Copper-65 | 0.00 | 0.35 | 0.500 | ug/L | |
| SLD0127-IBL1 | Zinc-66 | 0.0050 | 2.92 | 6.00 | ug/L | |
| SLD0127-IBL1 | Zinc-67 | 0.0100 | 0.94 | 6.00 | ug/L | |
| SLD0127-ICB1 | Arsenic-75a | 0.00400 | 0.0373 | 0.200 | ug/L | |
| SLD0127-ICB1 | Cadmium-111 | 0.0100 | 0.03 | 0.100 | ug/L | |
| SLD0127-ICB1 | Cadmium-114 | -0.00300 | 0.04 | 0.100 | ug/L | |
| SLD0127-ICB1 | Copper-63 | -0.00100 | 0.173 | 0.500 | ug/L | |
| SLD0127-ICB1 | Copper-65 | 0.00 | 0.35 | 0.500 | ug/L | |
| SLD0127-ICB1 | Zinc-66 | -0.0050 | 2.92 | 6.00 | ug/L | |
| SLD0127-ICB1 | Zinc-67 | 0.0270 | 0.94 | 6.00 | ug/L | |
| SLD0127-CCB1 | Arsenic-75a | 0.00700 | 0.0373 | 0.200 | ug/L | |
| SLD0127-CCB1 | Cadmium-111 | 0.00400 | 0.03 | 0.100 | ug/L | |
| SLD0127-CCB1 | Cadmium-114 | -0.00300 | 0.04 | 0.100 | ug/L | |
| SLD0127-CCB1 | Copper-63 | 0.00100 | 0.173 | 0.500 | ug/L | |
| SLD0127-CCB1 | Copper-65 | 0.00400 | 0.35 | 0.500 | ug/L | |
| SLD0127-CCB1 | Zinc-66 | -0.0050 | 2.92 | 6.00 | ug/L | |
| SLD0127-CCB1 | Zinc-67 | 0.0100 | 0.94 | 6.00 | ug/L | |
| SLD0127-IBL2 | Arsenic-75a | 0.0100 | 0.0373 | 0.200 | ug/L | |
| SLD0127-IBL2 | Cadmium-111 | 0.00300 | 0.03 | 0.100 | ug/L | |
| SLD0127-IBL2 | Cadmium-114 | -0.00500 | 0.04 | 0.100 | ug/L | |
| SLD0127-IBL2 | Copper-63 | 0.00500 | 0.173 | 0.500 | ug/L | |
| SLD0127-IBL2 | Copper-65 | 0.00500 | 0.35 | 0.500 | ug/L | |
| SLD0127-IBL2 | Zinc-66 | 0.0160 | 2.92 | 6.00 | ug/L | |
| SLD0127-IBL2 | Zinc-67 | -0.0260 | 0.94 | 6.00 | ug/L | |
| SLD0127-IBL3 | Arsenic-75a | 0.00700 | 0.0373 | 0.200 | ug/L | |
| SLD0127-IBL3 | Cadmium-111 | -0.00100 | 0.03 | 0.100 | ug/L | |
| SLD0127-IBL3 | Cadmium-114 | -0.00100 | 0.04 | 0.100 | ug/L | |
| SLD0127-IBL3 | Copper-63 | -0.00300 | 0.173 | 0.500 | ug/L | |
| SLD0127-IBL3 | Copper-65 | 0.00200 | 0.35 | 0.500 | ug/L | |
| SLD0127-IBL3 | Zinc-66 | 0.0070 | 2.92 | 6.00 | ug/L | |
| SLD0127-IBL3 | Zinc-67 | -0.0350 | 0.94 | 6.00 | ug/L | |



INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: ICPMS2

Calibration: GD00024

Sequence: SLD0127

Date Analyzed: 04/07/23 16:00

| Lab Sample ID | Analyte | Found | MDL | MRL | Units | C |
|---------------|-------------|----------|--------|-------|-------|---|
| SLD0127-CCB2 | Arsenic-75a | 0.0140 | 0.0373 | 0.200 | ug/L | |
| SLD0127-CCB2 | Cadmium-111 | 0.0170 | 0.03 | 0.100 | ug/L | |
| SLD0127-CCB2 | Cadmium-114 | -0.00400 | 0.04 | 0.100 | ug/L | |
| SLD0127-CCB2 | Copper-63 | 0.00300 | 0.173 | 0.500 | ug/L | |
| SLD0127-CCB2 | Copper-65 | -0.00300 | 0.35 | 0.500 | ug/L | |
| SLD0127-CCB2 | Zinc-66 | 0.0040 | 2.92 | 6.00 | ug/L | |
| SLD0127-CCB2 | Zinc-67 | -0.0250 | 0.94 | 6.00 | ug/L | |
| SLD0127-CCB3 | Arsenic-75a | -0.0300 | 0.0373 | 0.200 | ug/L | |
| SLD0127-CCB3 | Cadmium-111 | -0.00800 | 0.03 | 0.100 | ug/L | |
| SLD0127-CCB3 | Cadmium-114 | 0.00200 | 0.04 | 0.100 | ug/L | |
| SLD0127-CCB3 | Copper-63 | -0.00900 | 0.173 | 0.500 | ug/L | |
| SLD0127-CCB3 | Copper-65 | 0.00700 | 0.35 | 0.500 | ug/L | |
| SLD0127-CCB3 | Zinc-66 | -0.0440 | 2.92 | 6.00 | ug/L | |
| SLD0127-CCB3 | Zinc-67 | 0.0180 | 0.94 | 6.00 | ug/L | |
| SLD0127-IBL4 | Arsenic-75a | -0.0440 | 0.0373 | 0.200 | ug/L | |
| SLD0127-IBL4 | Cadmium-111 | -0.00300 | 0.03 | 0.100 | ug/L | |
| SLD0127-IBL4 | Cadmium-114 | 0.00100 | 0.04 | 0.100 | ug/L | |
| SLD0127-IBL4 | Copper-63 | -0.00500 | 0.173 | 0.500 | ug/L | |
| SLD0127-IBL4 | Copper-65 | 0.00200 | 0.35 | 0.500 | ug/L | |
| SLD0127-IBL4 | Zinc-66 | -0.0450 | 2.92 | 6.00 | ug/L | |
| SLD0127-IBL4 | Zinc-67 | -0.0070 | 0.94 | 6.00 | ug/L | |
| SLD0127-CCB4 | Arsenic-75a | -0.0440 | 0.0373 | 0.200 | ug/L | |
| SLD0127-CCB4 | Cadmium-111 | 0.00400 | 0.03 | 0.100 | ug/L | |
| SLD0127-CCB4 | Cadmium-114 | 0.00 | 0.04 | 0.100 | ug/L | |
| SLD0127-CCB4 | Copper-63 | -0.00300 | 0.173 | 0.500 | ug/L | |
| SLD0127-CCB4 | Copper-65 | 0.00500 | 0.35 | 0.500 | ug/L | |
| SLD0127-CCB4 | Zinc-66 | -0.0340 | 2.92 | 6.00 | ug/L | |
| SLD0127-CCB4 | Zinc-67 | 0.0020 | 0.94 | 6.00 | ug/L | |
| SLD0127-IBL5 | Arsenic-75a | -0.0420 | 0.0373 | 0.200 | ug/L | |
| SLD0127-IBL5 | Cadmium-111 | 0.00500 | 0.03 | 0.100 | ug/L | |
| SLD0127-IBL5 | Cadmium-114 | 0.00100 | 0.04 | 0.100 | ug/L | |
| SLD0127-IBL5 | Copper-63 | -0.00300 | 0.173 | 0.500 | ug/L | |
| SLD0127-IBL5 | Copper-65 | 0.00200 | 0.35 | 0.500 | ug/L | |
| SLD0127-IBL5 | Zinc-66 | -0.0540 | 2.92 | 6.00 | ug/L | |
| SLD0127-IBL5 | Zinc-67 | -0.0260 | 0.94 | 6.00 | ug/L | |
| SLD0127-CCB5 | Arsenic-75a | -0.0480 | 0.0373 | 0.200 | ug/L | |



INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: ICPMS2

Calibration: GD00024

Sequence: SLD0127

Date Analyzed: 04/07/23 18:41

| Lab Sample ID | Analyte | Found | MDL | MRL | Units | C |
|---------------|-------------|----------|--------|-------|-------|---|
| SLD0127-CCB5 | Cadmium-111 | -0.00900 | 0.03 | 0.100 | ug/L | |
| SLD0127-CCB5 | Cadmium-114 | 0.00600 | 0.04 | 0.100 | ug/L | |
| SLD0127-CCB5 | Copper-63 | -0.00800 | 0.173 | 0.500 | ug/L | |
| SLD0127-CCB5 | Copper-65 | 0.00100 | 0.35 | 0.500 | ug/L | |
| SLD0127-CCB5 | Zinc-66 | -0.0450 | 2.92 | 6.00 | ug/L | |
| SLD0127-CCB5 | Zinc-67 | -0.0080 | 0.94 | 6.00 | ug/L | |
| SLD0127-IBL6 | Arsenic-75a | -0.0570 | 0.0373 | 0.200 | ug/L | |
| SLD0127-IBL6 | Cadmium-111 | -0.00900 | 0.03 | 0.100 | ug/L | |
| SLD0127-IBL6 | Cadmium-114 | 0.00700 | 0.04 | 0.100 | ug/L | |
| SLD0127-IBL6 | Copper-63 | 0.0310 | 0.173 | 0.500 | ug/L | |
| SLD0127-IBL6 | Copper-65 | 0.0410 | 0.35 | 0.500 | ug/L | |
| SLD0127-IBL6 | Zinc-66 | 0.0030 | 2.92 | 6.00 | ug/L | |
| SLD0127-IBL6 | Zinc-67 | 0.0600 | 0.94 | 6.00 | ug/L | |
| SLD0127-CCB6 | Arsenic-75a | -0.0430 | 0.0373 | 0.200 | ug/L | |
| SLD0127-CCB6 | Cadmium-111 | -0.00600 | 0.03 | 0.100 | ug/L | |
| SLD0127-CCB6 | Cadmium-114 | 0.00300 | 0.04 | 0.100 | ug/L | |
| SLD0127-CCB6 | Copper-63 | -0.00700 | 0.173 | 0.500 | ug/L | |
| SLD0127-CCB6 | Copper-65 | 0.00100 | 0.35 | 0.500 | ug/L | |
| SLD0127-CCB6 | Zinc-66 | -0.0330 | 2.92 | 6.00 | ug/L | |
| SLD0127-CCB6 | Zinc-67 | 0.0440 | 0.94 | 6.00 | ug/L | |
| SLD0127-IBL7 | Arsenic-75a | -0.0490 | 0.0373 | 0.200 | ug/L | |
| SLD0127-IBL7 | Cadmium-111 | 0.00800 | 0.03 | 0.100 | ug/L | |
| SLD0127-IBL7 | Cadmium-114 | -0.00200 | 0.04 | 0.100 | ug/L | |
| SLD0127-IBL7 | Copper-63 | 0.0310 | 0.173 | 0.500 | ug/L | |
| SLD0127-IBL7 | Copper-65 | 0.0350 | 0.35 | 0.500 | ug/L | |
| SLD0127-IBL7 | Zinc-66 | -0.0070 | 2.92 | 6.00 | ug/L | |
| SLD0127-IBL7 | Zinc-67 | 0.126 | 0.94 | 6.00 | ug/L | |
| SLD0127-CCB7 | Arsenic-75a | -0.0520 | 0.0373 | 0.200 | ug/L | |
| SLD0127-CCB7 | Cadmium-111 | 0.00500 | 0.03 | 0.100 | ug/L | |
| SLD0127-CCB7 | Cadmium-114 | 0.00300 | 0.04 | 0.100 | ug/L | |
| SLD0127-CCB7 | Copper-63 | -0.00600 | 0.173 | 0.500 | ug/L | |
| SLD0127-CCB7 | Copper-65 | 0.00 | 0.35 | 0.500 | ug/L | |
| SLD0127-CCB7 | Zinc-66 | -0.0430 | 2.92 | 6.00 | ug/L | |
| SLD0127-CCB7 | Zinc-67 | 0.0060 | 0.94 | 6.00 | ug/L | |
| SLD0127-IBL8 | Arsenic-75a | -0.0530 | 0.0373 | 0.200 | ug/L | |
| SLD0127-IBL8 | Cadmium-111 | -0.00100 | 0.03 | 0.100 | ug/L | |



INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: ICPMS2

Calibration: GD00024

Sequence: SLD0127

Date Analyzed: 04/07/23 21:29

| Lab Sample ID | Analyte | Found | MDL | MRL | Units | C |
|---------------|-------------|----------|--------|-------|-------|---|
| SLD0127-IBL8 | Cadmium-114 | 0.00400 | 0.04 | 0.100 | ug/L | |
| SLD0127-IBL8 | Copper-63 | 0.0320 | 0.173 | 0.500 | ug/L | |
| SLD0127-IBL8 | Copper-65 | 0.0390 | 0.35 | 0.500 | ug/L | |
| SLD0127-IBL8 | Zinc-66 | -0.0050 | 2.92 | 6.00 | ug/L | |
| SLD0127-IBL8 | Zinc-67 | 0.0980 | 0.94 | 6.00 | ug/L | |
| SLD0127-CCB8 | Arsenic-75a | -0.0460 | 0.0373 | 0.200 | ug/L | |
| SLD0127-CCB8 | Cadmium-111 | 0.00900 | 0.03 | 0.100 | ug/L | |
| SLD0127-CCB8 | Cadmium-114 | -0.00100 | 0.04 | 0.100 | ug/L | |
| SLD0127-CCB8 | Copper-63 | -0.00500 | 0.173 | 0.500 | ug/L | |
| SLD0127-CCB8 | Copper-65 | 0.00600 | 0.35 | 0.500 | ug/L | |
| SLD0127-CCB8 | Zinc-66 | -0.0290 | 2.92 | 6.00 | ug/L | |
| SLD0127-CCB8 | Zinc-67 | -0.0140 | 0.94 | 6.00 | ug/L | |
| SLD0127-IBL9 | Arsenic-75a | -0.0410 | 0.0373 | 0.200 | ug/L | |
| SLD0127-IBL9 | Cadmium-111 | -0.00500 | 0.03 | 0.100 | ug/L | |
| SLD0127-IBL9 | Cadmium-114 | 0.00800 | 0.04 | 0.100 | ug/L | |
| SLD0127-IBL9 | Copper-63 | 0.0300 | 0.173 | 0.500 | ug/L | |
| SLD0127-IBL9 | Copper-65 | 0.0370 | 0.35 | 0.500 | ug/L | |
| SLD0127-IBL9 | Zinc-66 | 0.0060 | 2.92 | 6.00 | ug/L | |
| SLD0127-IBL9 | Zinc-67 | 0.0360 | 0.94 | 6.00 | ug/L | |
| SLD0127-CCB9 | Arsenic-75a | -0.0470 | 0.0373 | 0.200 | ug/L | |
| SLD0127-CCB9 | Cadmium-111 | 0.00700 | 0.03 | 0.100 | ug/L | |
| SLD0127-CCB9 | Cadmium-114 | 0.00400 | 0.04 | 0.100 | ug/L | |
| SLD0127-CCB9 | Copper-63 | -0.0100 | 0.173 | 0.500 | ug/L | |
| SLD0127-CCB9 | Copper-65 | -0.00100 | 0.35 | 0.500 | ug/L | |
| SLD0127-CCB9 | Zinc-66 | -0.0330 | 2.92 | 6.00 | ug/L | |
| SLD0127-CCB9 | Zinc-67 | 0.0270 | 0.94 | 6.00 | ug/L | |
| SLD0127-IBLA | Arsenic-75a | -0.0420 | 0.0373 | 0.200 | ug/L | |
| SLD0127-IBLA | Cadmium-111 | 0.00300 | 0.03 | 0.100 | ug/L | |
| SLD0127-IBLA | Cadmium-114 | 0.00 | 0.04 | 0.100 | ug/L | |
| SLD0127-IBLA | Copper-63 | 0.0280 | 0.173 | 0.500 | ug/L | |
| SLD0127-IBLA | Copper-65 | 0.0380 | 0.35 | 0.500 | ug/L | |
| SLD0127-IBLA | Zinc-66 | 0.0080 | 2.92 | 6.00 | ug/L | |
| SLD0127-IBLA | Zinc-67 | 0.0280 | 0.94 | 6.00 | ug/L | |
| SLD0127-CCBA | Arsenic-75a | -0.0440 | 0.0373 | 0.200 | ug/L | |
| SLD0127-CCBA | Cadmium-111 | 0.00500 | 0.03 | 0.100 | ug/L | |
| SLD0127-CCBA | Cadmium-114 | 0.00800 | 0.04 | 0.100 | ug/L | |



INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: ICPMS2

Calibration: GD00024

Sequence: SLD0127

Date Analyzed: 04/07/23 23:41

| Lab Sample ID | Analyte | Found | MDL | MRL | Units | C |
|---------------|-------------|----------|--------|-------|-------|---|
| SLD0127-CCBA | Copper-63 | -0.00700 | 0.173 | 0.500 | ug/L | |
| SLD0127-CCBA | Copper-65 | 0.00300 | 0.35 | 0.500 | ug/L | |
| SLD0127-CCBA | Zinc-66 | -0.0220 | 2.92 | 6.00 | ug/L | |
| SLD0127-CCBA | Zinc-67 | 0.0170 | 0.94 | 6.00 | ug/L | |
| SLD0127-CCBB | Arsenic-75a | 0.00500 | 0.0373 | 0.200 | ug/L | |
| SLD0127-CCBB | Cadmium-111 | -0.00100 | 0.03 | 0.100 | ug/L | |
| SLD0127-CCBB | Cadmium-114 | 0.0100 | 0.04 | 0.100 | ug/L | |
| SLD0127-CCBB | Copper-63 | 0.00200 | 0.173 | 0.500 | ug/L | |
| SLD0127-CCBB | Copper-65 | 0.00400 | 0.35 | 0.500 | ug/L | |
| SLD0127-CCBB | Zinc-66 | 0.0070 | 2.92 | 6.00 | ug/L | |
| SLD0127-CCBB | Zinc-67 | 0.0630 | 0.94 | 6.00 | ug/L | |
| SLD0127-IBLC | Arsenic-75a | -0.00700 | 0.0373 | 0.200 | ug/L | |
| SLD0127-IBLC | Cadmium-111 | 0.00400 | 0.03 | 0.100 | ug/L | |
| SLD0127-IBLC | Cadmium-114 | 0.00700 | 0.04 | 0.100 | ug/L | |
| SLD0127-IBLC | Copper-63 | 0.0430 | 0.173 | 0.500 | ug/L | |
| SLD0127-IBLC | Copper-65 | 0.0290 | 0.35 | 0.500 | ug/L | |
| SLD0127-IBLC | Zinc-66 | 0.0320 | 2.92 | 6.00 | ug/L | |
| SLD0127-IBLC | Zinc-67 | 0.0960 | 0.94 | 6.00 | ug/L | |
| SLD0127-CCBC | Arsenic-75a | -0.00700 | 0.0373 | 0.200 | ug/L | |
| SLD0127-CCBC | Cadmium-111 | -0.00500 | 0.03 | 0.100 | ug/L | |
| SLD0127-CCBC | Cadmium-114 | -0.00200 | 0.04 | 0.100 | ug/L | |
| SLD0127-CCBC | Copper-63 | 0.00400 | 0.173 | 0.500 | ug/L | |
| SLD0127-CCBC | Copper-65 | -0.00200 | 0.35 | 0.500 | ug/L | |
| SLD0127-CCBC | Zinc-66 | -0.0280 | 2.92 | 6.00 | ug/L | |
| SLD0127-CCBC | Zinc-67 | 0.0220 | 0.94 | 6.00 | ug/L | |
| SLD0127-IBLD | Arsenic-75a | -0.00500 | 0.0373 | 0.200 | ug/L | |
| SLD0127-IBLD | Cadmium-111 | 0.0780 | 0.03 | 0.100 | ug/L | |
| SLD0127-IBLD | Cadmium-114 | 0.0600 | 0.04 | 0.100 | ug/L | |
| SLD0127-IBLD | Copper-63 | 0.0370 | 0.173 | 0.500 | ug/L | |
| SLD0127-IBLD | Copper-65 | 0.0340 | 0.35 | 0.500 | ug/L | |
| SLD0127-IBLD | Zinc-66 | 0.0890 | 2.92 | 6.00 | ug/L | |
| SLD0127-IBLD | Zinc-67 | 0.0960 | 0.94 | 6.00 | ug/L | |
| SLD0127-CCBD | Arsenic-75a | -0.0110 | 0.0373 | 0.200 | ug/L | |
| SLD0127-CCBD | Cadmium-111 | 0.00400 | 0.03 | 0.100 | ug/L | |
| SLD0127-CCBD | Cadmium-114 | -0.00100 | 0.04 | 0.100 | ug/L | |
| SLD0127-CCBD | Copper-63 | 0.00300 | 0.173 | 0.500 | ug/L | |



INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: ICPMS2

Calibration: GD00024

Sequence: SLD0127

Date Analyzed: 04/08/23 01:58

| Lab Sample ID | Analyte | Found | MDL | MRL | Units | C |
|---------------|-------------|----------|--------|-------|-------|---|
| SLD0127-CCBD | Copper-65 | -0.00400 | 0.35 | 0.500 | ug/L | |
| SLD0127-CCBD | Zinc-66 | -0.0020 | 2.92 | 6.00 | ug/L | |
| SLD0127-CCBD | Zinc-67 | 0.0020 | 0.94 | 6.00 | ug/L | |
| SLD0127-IBL | Arsenic-75a | -0.0110 | 0.0373 | 0.200 | ug/L | |
| SLD0127-IBL | Cadmium-111 | 0.00100 | 0.03 | 0.100 | ug/L | |
| SLD0127-IBL | Cadmium-114 | 0.00200 | 0.04 | 0.100 | ug/L | |
| SLD0127-IBL | Copper-63 | 0.0380 | 0.173 | 0.500 | ug/L | |
| SLD0127-IBL | Copper-65 | 0.0380 | 0.35 | 0.500 | ug/L | |
| SLD0127-IBL | Zinc-66 | 0.0550 | 2.92 | 6.00 | ug/L | |
| SLD0127-IBL | Zinc-67 | 0.0230 | 0.94 | 6.00 | ug/L | |
| SLD0127-CCBE | Arsenic-75a | -0.00500 | 0.0373 | 0.200 | ug/L | |
| SLD0127-CCBE | Cadmium-111 | 0.00100 | 0.03 | 0.100 | ug/L | |
| SLD0127-CCBE | Cadmium-114 | 0.00100 | 0.04 | 0.100 | ug/L | |
| SLD0127-CCBE | Copper-63 | 0.00300 | 0.173 | 0.500 | ug/L | |
| SLD0127-CCBE | Copper-65 | 0.00 | 0.35 | 0.500 | ug/L | |
| SLD0127-CCBE | Zinc-66 | -0.0060 | 2.92 | 6.00 | ug/L | |
| SLD0127-CCBE | Zinc-67 | -0.0070 | 0.94 | 6.00 | ug/L | |
| SLD0127-IBLF | Arsenic-75a | 0.00500 | 0.0373 | 0.200 | ug/L | |
| SLD0127-IBLF | Cadmium-111 | -0.00900 | 0.03 | 0.100 | ug/L | |
| SLD0127-IBLF | Cadmium-114 | 0.00300 | 0.04 | 0.100 | ug/L | |
| SLD0127-IBLF | Copper-63 | 0.00500 | 0.173 | 0.500 | ug/L | |
| SLD0127-IBLF | Copper-65 | 0.00300 | 0.35 | 0.500 | ug/L | |
| SLD0127-IBLF | Zinc-66 | 0.0040 | 2.92 | 6.00 | ug/L | |
| SLD0127-IBLF | Zinc-67 | 0.0010 | 0.94 | 6.00 | ug/L | |
| SLD0127-CCBF | Arsenic-75a | -0.00800 | 0.0373 | 0.200 | ug/L | |
| SLD0127-CCBF | Cadmium-111 | 0.00 | 0.03 | 0.100 | ug/L | |
| SLD0127-CCBF | Cadmium-114 | 0.00900 | 0.04 | 0.100 | ug/L | |
| SLD0127-CCBF | Copper-63 | 0.00100 | 0.173 | 0.500 | ug/L | |
| SLD0127-CCBF | Copper-65 | -0.00100 | 0.35 | 0.500 | ug/L | |
| SLD0127-CCBF | Zinc-66 | -0.0080 | 2.92 | 6.00 | ug/L | |
| SLD0127-CCBF | Zinc-67 | -0.0290 | 0.94 | 6.00 | ug/L | |
| SLD0127-CCBG | Arsenic-75a | 0.00 | 0.0373 | 0.200 | ug/L | |
| SLD0127-CCBG | Cadmium-111 | 0.00300 | 0.03 | 0.100 | ug/L | |
| SLD0127-CCBG | Cadmium-114 | -0.00200 | 0.04 | 0.100 | ug/L | |
| SLD0127-CCBG | Copper-63 | -0.00200 | 0.173 | 0.500 | ug/L | |
| SLD0127-CCBG | Copper-65 | -0.00500 | 0.35 | 0.500 | ug/L | |



INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: ICPMS2

Calibration: GD00024

Sequence: SLD0127

Date Analyzed: 04/08/23 04:17

| Lab Sample ID | Analyte | Found | MDL | MRL | Units | C |
|---------------|-------------|----------|--------|-------|-------|---|
| SLD0127-CCBG | Zinc-66 | -0.0130 | 2.92 | 6.00 | ug/L | |
| SLD0127-CCBG | Zinc-67 | -0.0090 | 0.94 | 6.00 | ug/L | |
| SLD0127-IBLH | Arsenic-75a | -0.00200 | 0.0373 | 0.200 | ug/L | |
| SLD0127-IBLH | Cadmium-111 | -0.00500 | 0.03 | 0.100 | ug/L | |
| SLD0127-IBLH | Cadmium-114 | -0.00300 | 0.04 | 0.100 | ug/L | |
| SLD0127-IBLH | Copper-63 | 0.00300 | 0.173 | 0.500 | ug/L | |
| SLD0127-IBLH | Copper-65 | -0.00100 | 0.35 | 0.500 | ug/L | |
| SLD0127-IBLH | Zinc-66 | 0.0340 | 2.92 | 6.00 | ug/L | |
| SLD0127-IBLH | Zinc-67 | -0.0090 | 0.94 | 6.00 | ug/L | |
| SLD0127-CCBH | Arsenic-75a | 0.0190 | 0.0373 | 0.200 | ug/L | |
| SLD0127-CCBH | Cadmium-111 | -0.00900 | 0.03 | 0.100 | ug/L | |
| SLD0127-CCBH | Cadmium-114 | -0.00700 | 0.04 | 0.100 | ug/L | |
| SLD0127-CCBH | Copper-63 | 0.00900 | 0.173 | 0.500 | ug/L | |
| SLD0127-CCBH | Copper-65 | 0.0130 | 0.35 | 0.500 | ug/L | |
| SLD0127-CCBH | Zinc-66 | 0.0230 | 2.92 | 6.00 | ug/L | |
| SLD0127-CCBH | Zinc-67 | 0.0020 | 0.94 | 6.00 | ug/L | |
| SLD0127-IBLI | Arsenic-75a | 0.00200 | 0.0373 | 0.200 | ug/L | |
| SLD0127-IBLI | Cadmium-111 | -0.00400 | 0.03 | 0.100 | ug/L | |
| SLD0127-IBLI | Cadmium-114 | -0.00100 | 0.04 | 0.100 | ug/L | |
| SLD0127-IBLI | Copper-63 | 0.00100 | 0.173 | 0.500 | ug/L | |
| SLD0127-IBLI | Copper-65 | 0.00 | 0.35 | 0.500 | ug/L | |
| SLD0127-IBLI | Zinc-66 | 0.0080 | 2.92 | 6.00 | ug/L | |
| SLD0127-IBLI | Zinc-67 | -0.0180 | 0.94 | 6.00 | ug/L | |
| SLD0127-CCBI | Arsenic-75a | -0.00800 | 0.0373 | 0.200 | ug/L | |
| SLD0127-CCBI | Cadmium-111 | -0.00900 | 0.03 | 0.100 | ug/L | |
| SLD0127-CCBI | Cadmium-114 | 0.00 | 0.04 | 0.100 | ug/L | |
| SLD0127-CCBI | Copper-63 | -0.00100 | 0.173 | 0.500 | ug/L | |
| SLD0127-CCBI | Copper-65 | -0.00400 | 0.35 | 0.500 | ug/L | |
| SLD0127-CCBI | Zinc-66 | -0.0090 | 2.92 | 6.00 | ug/L | |
| SLD0127-CCBI | Zinc-67 | -0.0180 | 0.94 | 6.00 | ug/L | |
| SLD0127-IBLJ | Arsenic-75a | -0.0100 | 0.0373 | 0.200 | ug/L | |
| SLD0127-IBLJ | Cadmium-111 | -0.00200 | 0.03 | 0.100 | ug/L | |
| SLD0127-IBLJ | Cadmium-114 | 0.00 | 0.04 | 0.100 | ug/L | |
| SLD0127-IBLJ | Copper-63 | 0.00200 | 0.173 | 0.500 | ug/L | |
| SLD0127-IBLJ | Copper-65 | 0.00 | 0.35 | 0.500 | ug/L | |
| SLD0127-IBLJ | Zinc-66 | 0.0240 | 2.92 | 6.00 | ug/L | |



INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: ICPMS2

Calibration: GD00024

Sequence: SLD0127

Date Analyzed: 04/08/23 07:08

| Lab Sample ID | Analyte | Found | MDL | MRL | Units | C |
|---------------|-------------|----------|--------|-------|-------|---|
| SLD0127-IBLJ | Zinc-67 | -0.0200 | 0.94 | 6.00 | ug/L | |
| SLD0127-CCBJ | Arsenic-75a | -0.00100 | 0.0373 | 0.200 | ug/L | |
| SLD0127-CCBJ | Cadmium-111 | -0.00600 | 0.03 | 0.100 | ug/L | |
| SLD0127-CCBJ | Cadmium-114 | -0.00600 | 0.04 | 0.100 | ug/L | |
| SLD0127-CCBJ | Copper-63 | -0.00100 | 0.173 | 0.500 | ug/L | |
| SLD0127-CCBJ | Copper-65 | -0.00200 | 0.35 | 0.500 | ug/L | |
| SLD0127-CCBJ | Zinc-66 | 0.0020 | 2.92 | 6.00 | ug/L | |
| SLD0127-CCBJ | Zinc-67 | -0.0520 | 0.94 | 6.00 | ug/L | |



ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Sequence: SLD0127

Instrument: ICPMS2

Calibration: GD00024

| Sample Name | Lab Sample ID | Lab File ID | Matrix | Analysis Date/Time |
|----------------------|---------------|------------------|--------|--------------------|
| CAL 0 | SLD0127-CAL1 | XDT_m2230407-006 | NA | 04/07/23 14:00 |
| CAL 1 - LOW CHECK | SLD0127-CAL2 | XDT_m2230407-007 | NA | 04/07/23 14:05 |
| CAL 2 | SLD0127-CAL3 | XDT_m2230407-008 | NA | 04/07/23 14:10 |
| CAL 3 | SLD0127-CAL4 | XDT_m2230407-009 | NA | 04/07/23 14:15 |
| CAL 4 | SLD0127-CAL5 | XDT_m2230407-010 | NA | 04/07/23 14:20 |
| CAL 5 | SLD0127-CAL6 | XDT_m2230407-011 | NA | 04/07/23 14:27 |
| RINSE | SLD0127-IBL1 | XDT_m2230407-012 | NA | 04/07/23 14:35 |
| Initial Cal Check | SLD0127-ICV1 | XDT_m2230407-014 | NA | 04/07/23 14:43 |
| Initial Cal Blank | SLD0127-ICB1 | XDT_m2230407-015 | NA | 04/07/23 14:51 |
| Calibration Check | SLD0127-CCV1 | XDT_m2230407-016 | NA | 04/07/23 14:56 |
| Calibration Blank | SLD0127-CCB1 | XDT_m2230407-017 | NA | 04/07/23 15:05 |
| Instrument RL Check | SLD0127-CRL1 | XDT_m2230407-018 | NA | 04/07/23 15:11 |
| Interference Check A | SLD0127-IFA1 | XDT_m2230407-019 | NA | 04/07/23 15:19 |
| Interference Check B | SLD0127-IFB1 | XDT_m2230407-020 | NA | 04/07/23 15:24 |
| LR200 | SLD0127-HCV1 | XDT_m2230407-021 | NA | 04/07/23 15:28 |
| LR300 | SLD0127-HCV2 | XDT_m2230407-022 | NA | 04/07/23 15:33 |
| Instrument Blank | SLD0127-IBL2 | XDT_m2230407-023 | NA | 04/07/23 15:41 |
| Instrument Blank | SLD0127-IBL3 | XDT_m2230407-024 | NA | 04/07/23 15:47 |
| Calibration Check | SLD0127-CCV2 | XDT_m2230407-025 | NA | 04/07/23 15:52 |
| Calibration Blank | SLD0127-CCB2 | XDT_m2230407-026 | NA | 04/07/23 16:00 |
| Calibration Check | SLD0127-CCV3 | XDT_m2230407-028 | NA | 04/07/23 16:14 |
| Calibration Blank | SLD0127-CCB3 | XDT_m2230407-029 | NA | 04/07/23 16:21 |
| ZZZZZ | BLD0180-BLK1 | XDT_m2230407-030 | Water | 04/07/23 16:27 |
| ZZZZZ | BLD0180-BS1 | XDT_m2230407-031 | Water | 04/07/23 16:32 |
| Instrument Blank | SLD0127-IBL4 | XDT_m2230407-039 | NA | 04/07/23 17:25 |
| Calibration Check | SLD0127-CCV4 | XDT_m2230407-040 | NA | 04/07/23 17:30 |
| Calibration Blank | SLD0127-CCB4 | XDT_m2230407-041 | NA | 04/07/23 17:38 |
| Blank | BLD0055-BLK1 | XDT_m2230407-042 | Solid | 04/07/23 17:46 |
| LCS | BLD0055-BS1 | XDT_m2230407-043 | Solid | 04/07/23 17:51 |



ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Sequence: SLD0127

Instrument: ICPMS2

Calibration: GD00024

| Sample Name | Lab Sample ID | Lab File ID | Matrix | Analysis Date/Time |
|-------------------|---------------|------------------|--------|--------------------|
| ZZZZZ | BLD0123-BLK1 | XDT_m2230407-044 | Solid | 04/07/23 17:55 |
| ZZZZZ | BLD0123-BS1 | XDT_m2230407-045 | Solid | 04/07/23 18:00 |
| ZZZZZ | 23A0179-01 | XDT_m2230407-046 | Solid | 04/07/23 18:05 |
| ZZZZZ | 23A0179-01 | XDT_m2230407-046 | Solid | 04/07/23 18:05 |
| ZZZZZ | 23A0179-01 | XDT_m2230407-046 | Solid | 04/07/23 18:05 |
| ZZZZZ | 23A0179-01 | XDT_m2230407-046 | Solid | 04/07/23 18:05 |
| Instrument Blank | SLD0127-IBL5 | XDT_m2230407-051 | NA | 04/07/23 18:28 |
| Calibration Check | SLD0127-CCV5 | XDT_m2230407-052 | NA | 04/07/23 18:33 |
| Calibration Blank | SLD0127-CCB5 | XDT_m2230407-053 | NA | 04/07/23 18:41 |
| ZZZZZ | 23A0158-14 | XDT_m2230407-054 | Solid | 04/07/23 18:48 |
| ZZZZZ | 23A0158-14 | XDT_m2230407-054 | Solid | 04/07/23 18:48 |
| ZZZZZ | 23A0158-14 | XDT_m2230407-054 | Solid | 04/07/23 18:48 |
| ZZZZZ | 23A0158-14 | XDT_m2230407-054 | Solid | 04/07/23 18:48 |
| ZZZZZ | 23A0158-15 | XDT_m2230407-055 | Solid | 04/07/23 18:52 |
| ZZZZZ | 23A0158-15 | XDT_m2230407-055 | Solid | 04/07/23 18:52 |
| ZZZZZ | 23A0158-15 | XDT_m2230407-055 | Solid | 04/07/23 18:52 |
| ZZZZZ | 23A0158-15 | XDT_m2230407-055 | Solid | 04/07/23 18:52 |
| ZZZZZ | 23A0158-16 | XDT_m2230407-056 | Solid | 04/07/23 18:57 |
| ZZZZZ | 23A0158-16 | XDT_m2230407-056 | Solid | 04/07/23 18:57 |
| ZZZZZ | 23A0158-16 | XDT_m2230407-056 | Solid | 04/07/23 18:57 |
| ZZZZZ | 23A0158-16 | XDT_m2230407-056 | Solid | 04/07/23 18:57 |
| ZZZZZ | 23A0206-02 | XDT_m2230407-057 | Solid | 04/07/23 19:02 |
| ZZZZZ | 23A0206-02 | XDT_m2230407-057 | Solid | 04/07/23 19:02 |
| ZZZZZ | 23A0206-02 | XDT_m2230407-057 | Solid | 04/07/23 19:02 |
| ZZZZZ | 23A0206-02 | XDT_m2230407-057 | Solid | 04/07/23 19:02 |
| ZZZZZ | 23A0206-01 | XDT_m2230407-058 | Solid | 04/07/23 19:07 |
| ZZZZZ | 23A0206-01 | XDT_m2230407-058 | Solid | 04/07/23 19:07 |
| ZZZZZ | 23A0206-01 | XDT_m2230407-058 | Solid | 04/07/23 19:07 |
| ZZZZZ | 23A0206-01 | XDT_m2230407-058 | Solid | 04/07/23 19:07 |



ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Sequence: SLD0127

Instrument: ICPMS2

Calibration: GD00024

| Sample Name | Lab Sample ID | Lab File ID | Matrix | Analysis Date/Time |
|-------------------|---------------|------------------|--------|--------------------|
| ZZZZZ | BLD0123-DUP1 | XDT_m2230407-059 | Solid | 04/07/23 19:11 |
| ZZZZZ | BLD0123-MS1 | XDT_m2230407-060 | Solid | 04/07/23 19:16 |
| ZZZZZ | BLD0123-MSD1 | XDT_m2230407-061 | Solid | 04/07/23 19:21 |
| Instrument Blank | SLD0127-IBL6 | XDT_m2230407-063 | NA | 04/07/23 19:30 |
| Calibration Check | SLD0127-CCV6 | XDT_m2230407-064 | NA | 04/07/23 19:35 |
| Calibration Blank | SLD0127-CCB6 | XDT_m2230407-065 | NA | 04/07/23 19:42 |
| ZZZZZ | 23A0179-02 | XDT_m2230407-066 | Solid | 04/07/23 19:47 |
| ZZZZZ | 23A0179-02 | XDT_m2230407-066 | Solid | 04/07/23 19:47 |
| ZZZZZ | 23A0179-02 | XDT_m2230407-066 | Solid | 04/07/23 19:47 |
| ZZZZZ | 23A0179-02 | XDT_m2230407-066 | Solid | 04/07/23 19:47 |
| ZZZZZ | 23A0179-03 | XDT_m2230407-067 | Solid | 04/07/23 19:52 |
| ZZZZZ | 23A0179-03 | XDT_m2230407-067 | Solid | 04/07/23 19:52 |
| ZZZZZ | 23A0179-03 | XDT_m2230407-067 | Solid | 04/07/23 19:52 |
| ZZZZZ | 23A0179-03 | XDT_m2230407-067 | Solid | 04/07/23 19:52 |
| ZZZZZ | 23A0179-04 | XDT_m2230407-068 | Solid | 04/07/23 19:57 |
| ZZZZZ | 23A0179-04 | XDT_m2230407-068 | Solid | 04/07/23 19:57 |
| ZZZZZ | 23A0179-04 | XDT_m2230407-068 | Solid | 04/07/23 19:57 |
| ZZZZZ | 23A0179-04 | XDT_m2230407-068 | Solid | 04/07/23 19:57 |
| ZZZZZ | 23A0179-05 | XDT_m2230407-069 | Solid | 04/07/23 20:01 |
| ZZZZZ | 23A0179-05 | XDT_m2230407-069 | Solid | 04/07/23 20:01 |
| ZZZZZ | 23A0179-05 | XDT_m2230407-069 | Solid | 04/07/23 20:01 |
| ZZZZZ | 23A0179-05 | XDT_m2230407-069 | Solid | 04/07/23 20:01 |
| ZZZZZ | 23A0179-06 | XDT_m2230407-070 | Solid | 04/07/23 20:06 |
| ZZZZZ | 23A0179-06 | XDT_m2230407-070 | Solid | 04/07/23 20:06 |
| ZZZZZ | 23A0179-06 | XDT_m2230407-070 | Solid | 04/07/23 20:06 |
| ZZZZZ | 23A0179-06 | XDT_m2230407-070 | Solid | 04/07/23 20:06 |
| ZZZZZ | 23A0179-07 | XDT_m2230407-071 | Solid | 04/07/23 20:11 |
| ZZZZZ | 23A0179-07 | XDT_m2230407-071 | Solid | 04/07/23 20:11 |
| ZZZZZ | 23A0179-07 | XDT_m2230407-071 | Solid | 04/07/23 20:11 |



ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Sequence: SLD0127

Instrument: ICPMS2

Calibration: GD00024

| Sample Name | Lab Sample ID | Lab File ID | Matrix | Analysis Date/Time |
|-------------------|---------------|------------------|--------|--------------------|
| ZZZZZ | 23A0179-07 | XDT_m2230407-071 | Solid | 04/07/23 20:11 |
| ZZZZZ | 23A0179-08 | XDT_m2230407-072 | Solid | 04/07/23 20:16 |
| ZZZZZ | 23A0179-08 | XDT_m2230407-072 | Solid | 04/07/23 20:16 |
| ZZZZZ | 23A0179-08 | XDT_m2230407-072 | Solid | 04/07/23 20:16 |
| ZZZZZ | 23A0179-08 | XDT_m2230407-072 | Solid | 04/07/23 20:16 |
| ZZZZZ | 23A0179-09 | XDT_m2230407-073 | Solid | 04/07/23 20:20 |
| ZZZZZ | 23A0179-09 | XDT_m2230407-073 | Solid | 04/07/23 20:20 |
| ZZZZZ | 23A0179-09 | XDT_m2230407-073 | Solid | 04/07/23 20:20 |
| ZZZZZ | 23A0179-09 | XDT_m2230407-073 | Solid | 04/07/23 20:20 |
| ZZZZZ | 23A0179-10 | XDT_m2230407-074 | Solid | 04/07/23 20:25 |
| ZZZZZ | 23A0179-10 | XDT_m2230407-074 | Solid | 04/07/23 20:25 |
| ZZZZZ | 23A0179-10 | XDT_m2230407-074 | Solid | 04/07/23 20:25 |
| ZZZZZ | 23A0179-10 | XDT_m2230407-074 | Solid | 04/07/23 20:25 |
| Instrument Blank | SLD0127-IBL7 | XDT_m2230407-075 | NA | 04/07/23 20:30 |
| Calibration Check | SLD0127-CCV7 | XDT_m2230407-076 | NA | 04/07/23 20:34 |
| Calibration Blank | SLD0127-CCB7 | XDT_m2230407-077 | NA | 04/07/23 20:42 |
| ZZZZZ | 23A0179-11 | XDT_m2230407-078 | Solid | 04/07/23 20:47 |
| ZZZZZ | 23A0179-11 | XDT_m2230407-078 | Solid | 04/07/23 20:47 |
| ZZZZZ | 23A0179-11 | XDT_m2230407-078 | Solid | 04/07/23 20:47 |
| ZZZZZ | 23A0179-11 | XDT_m2230407-078 | Solid | 04/07/23 20:47 |
| ZZZZZ | 23A0179-12 | XDT_m2230407-079 | Solid | 04/07/23 20:51 |
| ZZZZZ | 23A0179-12 | XDT_m2230407-079 | Solid | 04/07/23 20:51 |
| ZZZZZ | 23A0179-12 | XDT_m2230407-079 | Solid | 04/07/23 20:51 |
| ZZZZZ | 23A0179-12 | XDT_m2230407-079 | Solid | 04/07/23 20:51 |
| LDW23-SC1164 | 23A0180-01 | XDT_m2230407-080 | Solid | 04/07/23 20:56 |
| LDW23-SC1164 | 23A0180-01 | XDT_m2230407-080 | Solid | 04/07/23 20:56 |
| LDW23-SC1164 | 23A0180-01 | XDT_m2230407-080 | Solid | 04/07/23 20:56 |
| LDW23-SC1164 | 23A0180-01 | XDT_m2230407-080 | Solid | 04/07/23 20:56 |
| LDW23-SC1164-FD | 23A0180-02 | XDT_m2230407-081 | Solid | 04/07/23 21:01 |



ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Sequence: SLD0127

Instrument: ICPMS2

Calibration: GD00024

| Sample Name | Lab Sample ID | Lab File ID | Matrix | Analysis Date/Time |
|-------------------|---------------|------------------|--------|--------------------|
| LDW23-SC1164-FD | 23A0180-02 | XDT_m2230407-081 | Solid | 04/07/23 21:01 |
| LDW23-SC1164-FD | 23A0180-02 | XDT_m2230407-081 | Solid | 04/07/23 21:01 |
| LDW23-SC1164-FD | 23A0180-02 | XDT_m2230407-081 | Solid | 04/07/23 21:01 |
| LDW23-SC1158 | 23A0180-03 | XDT_m2230407-082 | Solid | 04/07/23 21:06 |
| LDW23-SC1158 | 23A0180-03 | XDT_m2230407-082 | Solid | 04/07/23 21:06 |
| LDW23-SC1158 | 23A0180-03 | XDT_m2230407-082 | Solid | 04/07/23 21:06 |
| LDW23-SC1158 | 23A0180-03 | XDT_m2230407-082 | Solid | 04/07/23 21:06 |
| LDW23-SC1151 | 23A0180-04 | XDT_m2230407-083 | Solid | 04/07/23 21:10 |
| LDW23-SC1151 | 23A0180-04 | XDT_m2230407-083 | Solid | 04/07/23 21:10 |
| LDW23-SC1151 | 23A0180-04 | XDT_m2230407-083 | Solid | 04/07/23 21:10 |
| LDW23-SC1151 | 23A0180-04 | XDT_m2230407-083 | Solid | 04/07/23 21:10 |
| ZZZZZ | 23A0206-03 | XDT_m2230407-084 | Solid | 04/07/23 21:15 |
| ZZZZZ | 23A0206-03 | XDT_m2230407-084 | Solid | 04/07/23 21:15 |
| ZZZZZ | 23A0206-03 | XDT_m2230407-084 | Solid | 04/07/23 21:15 |
| ZZZZZ | 23A0206-03 | XDT_m2230407-084 | Solid | 04/07/23 21:15 |
| ZZZZZ | 23A0206-04 | XDT_m2230407-085 | Solid | 04/07/23 21:20 |
| ZZZZZ | 23A0206-04 | XDT_m2230407-085 | Solid | 04/07/23 21:20 |
| ZZZZZ | 23A0206-04 | XDT_m2230407-085 | Solid | 04/07/23 21:20 |
| ZZZZZ | 23A0206-04 | XDT_m2230407-085 | Solid | 04/07/23 21:20 |
| ZZZZZ | 23A0206-05 | XDT_m2230407-086 | Solid | 04/07/23 21:25 |
| ZZZZZ | 23A0206-05 | XDT_m2230407-086 | Solid | 04/07/23 21:25 |
| ZZZZZ | 23A0206-05 | XDT_m2230407-086 | Solid | 04/07/23 21:25 |
| ZZZZZ | 23A0206-05 | XDT_m2230407-086 | Solid | 04/07/23 21:25 |
| Instrument Blank | SLD0127-IBL8 | XDT_m2230407-087 | NA | 04/07/23 21:29 |
| Calibration Check | SLD0127-CCV8 | XDT_m2230407-088 | NA | 04/07/23 21:34 |
| Calibration Blank | SLD0127-CCB8 | XDT_m2230407-089 | NA | 04/07/23 21:42 |
| ZZZZZ | 23A0206-06 | XDT_m2230407-090 | Solid | 04/07/23 21:46 |
| ZZZZZ | 23A0206-06 | XDT_m2230407-090 | Solid | 04/07/23 21:46 |
| ZZZZZ | 23A0206-06 | XDT_m2230407-090 | Solid | 04/07/23 21:46 |



ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Sequence: SLD0127

Instrument: ICPMS2

Calibration: GD00024

| Sample Name | Lab Sample ID | Lab File ID | Matrix | Analysis Date/Time |
|-------------|---------------|------------------|--------|--------------------|
| ZZZZZ | 23A0206-06 | XDT_m2230407-090 | Solid | 04/07/23 21:46 |
| ZZZZZ | 23A0206-07 | XDT_m2230407-091 | Solid | 04/07/23 21:51 |
| ZZZZZ | 23A0206-07 | XDT_m2230407-091 | Solid | 04/07/23 21:51 |
| ZZZZZ | 23A0206-07 | XDT_m2230407-091 | Solid | 04/07/23 21:51 |
| ZZZZZ | 23A0206-07 | XDT_m2230407-091 | Solid | 04/07/23 21:51 |
| ZZZZZ | 23A0206-08 | XDT_m2230407-092 | Solid | 04/07/23 21:56 |
| ZZZZZ | 23A0206-08 | XDT_m2230407-092 | Solid | 04/07/23 21:56 |
| ZZZZZ | 23A0206-08 | XDT_m2230407-092 | Solid | 04/07/23 21:56 |
| ZZZZZ | 23A0206-08 | XDT_m2230407-092 | Solid | 04/07/23 21:56 |
| ZZZZZ | 23A0206-09 | XDT_m2230407-093 | Solid | 04/07/23 22:00 |
| ZZZZZ | 23A0206-09 | XDT_m2230407-093 | Solid | 04/07/23 22:00 |
| ZZZZZ | 23A0206-09 | XDT_m2230407-093 | Solid | 04/07/23 22:00 |
| ZZZZZ | 23A0206-09 | XDT_m2230407-093 | Solid | 04/07/23 22:00 |
| ZZZZZ | 23A0206-10 | XDT_m2230407-094 | Solid | 04/07/23 22:05 |
| ZZZZZ | 23A0206-10 | XDT_m2230407-094 | Solid | 04/07/23 22:05 |
| ZZZZZ | 23A0206-10 | XDT_m2230407-094 | Solid | 04/07/23 22:05 |
| ZZZZZ | 23A0206-11 | XDT_m2230407-095 | Solid | 04/07/23 22:10 |
| ZZZZZ | 23A0206-11 | XDT_m2230407-095 | Solid | 04/07/23 22:10 |
| ZZZZZ | 23A0206-11 | XDT_m2230407-095 | Solid | 04/07/23 22:10 |
| ZZZZZ | 23A0206-11 | XDT_m2230407-095 | Solid | 04/07/23 22:10 |
| ZZZZZ | 23A0206-12 | XDT_m2230407-096 | Solid | 04/07/23 22:15 |
| ZZZZZ | 23A0206-12 | XDT_m2230407-096 | Solid | 04/07/23 22:15 |
| ZZZZZ | 23A0206-12 | XDT_m2230407-096 | Solid | 04/07/23 22:15 |
| ZZZZZ | 23A0206-12 | XDT_m2230407-096 | Solid | 04/07/23 22:15 |
| ZZZZZ | 23A0206-13 | XDT_m2230407-097 | Solid | 04/07/23 22:19 |
| ZZZZZ | 23A0206-13 | XDT_m2230407-097 | Solid | 04/07/23 22:19 |
| ZZZZZ | 23A0206-13 | XDT_m2230407-097 | Solid | 04/07/23 22:19 |
| ZZZZZ | 23A0206-14 | XDT_m2230407-098 | Solid | 04/07/23 22:24 |
| ZZZZZ | 23A0206-14 | XDT_m2230407-098 | Solid | 04/07/23 22:24 |



ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Sequence: SLD0127

Instrument: ICPMS2

Calibration: GD00024

| Sample Name | Lab Sample ID | Lab File ID | Matrix | Analysis Date/Time |
|-------------------|---------------|------------------|--------|--------------------|
| ZZZZZ | 23A0206-14 | XDT_m2230407-098 | Solid | 04/07/23 22:24 |
| ZZZZZ | 23A0206-14 | XDT_m2230407-098 | Solid | 04/07/23 22:24 |
| Instrument Blank | SLD0127-IBL9 | XDT_m2230407-099 | NA | 04/07/23 22:29 |
| Calibration Check | SLD0127-CCV9 | XDT_m2230407-100 | NA | 04/07/23 22:34 |
| Calibration Blank | SLD0127-CCB9 | XDT_m2230407-101 | NA | 04/07/23 22:41 |
| Instrument Blank | SLD0127-IBLA | XDT_m2230407-111 | NA | 04/07/23 23:28 |
| Calibration Check | SLD0127-CCVA | XDT_m2230407-112 | NA | 04/07/23 23:33 |
| Calibration Blank | SLD0127-CCBA | XDT_m2230407-113 | NA | 04/07/23 23:41 |
| Calibration Check | SLD0127-CCVB | XDT_m2230407-115 | NA | 04/07/23 23:50 |
| Calibration Blank | SLD0127-CCBB | XDT_m2230407-116 | NA | 04/07/23 23:58 |
| Instrument Blank | SLD0127-IBLC | XDT_m2230407-126 | NA | 04/08/23 00:45 |
| Calibration Check | SLD0127-CCVC | XDT_m2230407-127 | NA | 04/08/23 00:50 |
| Calibration Blank | SLD0127-CCBC | XDT_m2230407-128 | NA | 04/08/23 00:57 |
| Instrument Blank | SLD0127-IBLD | XDT_m2230407-138 | NA | 04/08/23 01:46 |
| Calibration Check | SLD0127-CCVD | XDT_m2230407-139 | NA | 04/08/23 01:50 |
| Calibration Blank | SLD0127-CCBD | XDT_m2230407-140 | NA | 04/08/23 01:58 |
| Instrument Blank | SLD0127-IBLE | XDT_m2230407-150 | NA | 04/08/23 02:48 |
| Calibration Check | SLD0127-CCVE | XDT_m2230407-151 | NA | 04/08/23 02:53 |
| Calibration Blank | SLD0127-CCBE | XDT_m2230407-152 | NA | 04/08/23 03:00 |
| Instrument Blank | SLD0127-IBLF | XDT_m2230407-162 | NA | 04/08/23 03:48 |
| Calibration Check | SLD0127-CCVF | XDT_m2230407-163 | NA | 04/08/23 03:53 |
| Calibration Blank | SLD0127-CCBF | XDT_m2230407-164 | NA | 04/08/23 04:00 |
| Calibration Check | SLD0127-CCVG | XDT_m2230407-166 | NA | 04/08/23 04:10 |
| Calibration Blank | SLD0127-CCBG | XDT_m2230407-167 | NA | 04/08/23 04:17 |
| Instrument Blank | SLD0127-IBLH | XDT_m2230407-177 | NA | 04/08/23 05:05 |
| Calibration Check | SLD0127-CCVH | XDT_m2230407-178 | NA | 04/08/23 05:10 |
| Calibration Blank | SLD0127-CCBH | XDT_m2230407-179 | NA | 04/08/23 05:18 |
| Instrument Blank | SLD0127-IBLI | XDT_m2230407-189 | NA | 04/08/23 06:05 |
| Calibration Check | SLD0127-CCVI | XDT_m2230407-190 | NA | 04/08/23 06:10 |



ANALYSIS BATCH (SEQUENCE) SUMMARY
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Sequence: SLD0127

Instrument: ICPMS2

Calibration: GD00024

| Sample Name | Lab Sample ID | Lab File ID | Matrix | Analysis Date/Time |
|-------------------|---------------|------------------|--------|--------------------|
| Calibration Blank | SLD0127-CCBI | XDT_m2230407-191 | NA | 04/08/23 06:17 |
| Instrument Blank | SLD0127-IBLJ | XDT_m2230407-201 | NA | 04/08/23 07:08 |
| Calibration Check | SLD0127-CCVJ | XDT_m2230407-202 | NA | 04/08/23 07:13 |
| Calibration Blank | SLD0127-CCBJ | XDT_m2230407-203 | NA | 04/08/23 07:20 |



ICP INTERFERENCE CHECK SAMPLE
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: ICPMS2

Calibration: GD00024

Sequence: SLD0127

Standard ID: L003578

| Lab Sample ID | Analyte | True | Found | %R | Units |
|---------------|-------------|------|--------|----|-------|
| SLD0127-IFA1 | Arsenic-75a | 0 | 0.0250 | | ug/L |
| | Cadmium-111 | 0 | 0.0610 | | ug/L |
| | Cadmium-114 | 0 | 0.0530 | | ug/L |
| | Copper-63 | 0 | 0.0630 | | ug/L |
| | Copper-65 | 0 | 0.0620 | | ug/L |
| | Zinc-66 | 0 | 0.2430 | | ug/L |
| | Zinc-67 | 0 | 0.2000 | | ug/L |

* Indicates %R outside of QC limits

NOTE: True value and %R are populated only for analytes found in the interference check standards, and will be seen only if those analytes were requested.



ICP INTERFERENCE CHECK SAMPLE
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: ICPMS2

Calibration: GD00024

Sequence: SLD0127

Standard ID: L003578

| Lab Sample ID | Analyte | True | Found | %R | Units |
|---------------|-------------|--------|--------|------|-------|
| SLD0127-IFB1 | Arsenic-75a | 20.000 | 18.948 | 94.7 | ug/L |
| | Cadmium-111 | 20.000 | 19.241 | 96.2 | ug/L |
| | Cadmium-114 | 20.000 | 18.956 | 94.8 | ug/L |
| | Copper-63 | 20.000 | 19.582 | 97.9 | ug/L |
| | Copper-65 | 20.000 | 19.715 | 98.6 | ug/L |
| | Zinc-66 | 20.000 | 18.334 | 91.7 | ug/L |
| | Zinc-67 | 20.000 | 16.308 | 81.5 | ug/L |

* Indicates %R outside of QC limits

NOTE: True value and %R are populated only for analytes found in the interference check standards, and will be seen only if those analytes were requested.



DETECTION LEVEL STANDARD
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: ICPMS2

Calibration: GD00024

Sequence: SLD0127

Lab Sample ID: SLD0127-CRL1

| Analyte | True | Found | %R | Units | QC Limits |
|-------------|---------|-------|------|-------|-----------|
| Arsenic-75a | 0.20000 | 0.219 | 110 | ug/L | 50 - 150 |
| Cadmium-111 | 0.10000 | 0.113 | 113 | ug/L | 50 - 150 |
| Cadmium-114 | 0.10000 | 0.112 | 112 | ug/L | 50 - 150 |
| Copper-63 | 0.50000 | 0.503 | 101 | ug/L | 50 - 150 |
| Copper-65 | 0.50000 | 0.538 | 108 | ug/L | 50 - 150 |
| Zinc-66 | 6.0000 | 6.13 | 102 | ug/L | 50 - 150 |
| Zinc-67 | 6.0000 | 5.58 | 93.1 | ug/L | 50 - 150 |

* Values outside of QC limits



**HIGH-CONCENTRATION
CALIBRATION VERIFICATION
EPA 6020B UCT-KED**

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Calibration: GD00024

Laboratory ID: SLD0127-HCV1

Sequence: SLD0127

Standard ID: L003671

| ANALYTE | EXPECTED (ug/L) | FOUND (ug/L) | % DRIFT | QC LIMIT |
|----------------|----------------------------|-------------------------|----------------|-----------------|
| Arsenic-75a | 200.00 | 199 | -0.6 | 10.00 |
| Cadmium-111 | 200.00 | 191 | -4.6 | 10.00 |
| Cadmium-114 | 200.00 | 191 | -4.3 | 10.00 |
| Copper-63 | 200.00 | 191 | -4.4 | 10.00 |
| Copper-65 | 200.00 | 195 | -2.6 | 10.00 |
| Zinc-66 | 200.00 | 193 | -3.5 | 10.00 |
| Zinc-67 | 200.00 | 191 | -4.3 | 10.00 |

* Values outside of QC limits



HIGH-CONCENTRATION CALIBRATION VERIFICATION

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Calibration: GD00024

Laboratory ID: SLD0127-HCV2

Sequence: SLD0127

Standard ID: L003672

| ANALYTE | EXPECTED (ug/L) | FOUND (ug/L) | % DRIFT | QC LIMIT |
|-------------|--------------------|-----------------|---------|----------|
| Arsenic-75a | 300.00 | 301 | 0.4 | 10.00 |
| Cadmium-111 | 300.00 | 285 | -4.9 | 10.00 |
| Cadmium-114 | 300.00 | 282 | -5.9 | 10.00 |
| Copper-63 | 300.00 | 289 | -3.8 | 10.00 |
| Copper-65 | 300.00 | 287 | -4.5 | 10.00 |
| Zinc-66 | 300.00 | 282 | -6.2 | 10.00 |
| Zinc-67 | 300.00 | 282 | -6.1 | 10.00 |

* Values outside of QC limits



HOLDING TIME SUMMARY

Analysis: EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

| Sample Name | Date Collected | Date Received | Date Prepared | Days to Prep | Max Days to Prep | Date Analyzed | Days to Analysis | Max Days to Analysis | Q |
|-------------------------------|-------------------|-------------------|-------------------|--------------|------------------|-------------------|------------------|----------------------|---|
| LDW23-SC1164 23A0180-01 | 01/10/23 08:05 | 01/10/23 17:10 | 04/06/23 15:35 | 86 | 180 | 04/07/23 20:56 | 88 | 180 | |
| LDW23-SC1164-FD 23A0180-02 | 01/10/23 08:05 | 01/10/23 17:10 | 04/06/23 15:35 | 86 | 180 | 04/07/23 21:01 | 88 | 180 | |
| LDW23-SC1158 23A0180-03 | 01/10/23 08:33 | 01/10/23 17:10 | 04/06/23 15:35 | 86 | 180 | 04/07/23 21:06 | 88 | 180 | |
| LDW23-SC1151 23A0180-04 | 01/10/23 09:07 | 01/10/23 17:10 | 04/06/23 15:35 | 86 | 180 | 04/07/23 21:10 | 88 | 180 | |

* Indicates hold time exceedance.



**METHOD DETECTION
AND REPORTING LIMITS**
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Matrix: Solid

Instrument: ICPMS2

| Analyte | MDL | RL | Units |
|----------------|------------|-----------|--------------|
| Arsenic-75a | 0.04 | 0.20 | mg/kg |
| Cadmium-111 | 0.03 | 0.10 | mg/kg |
| Cadmium-114 | 0.04 | 0.10 | mg/kg |
| Copper-63 | 0.17 | 0.50 | mg/kg |
| Copper-65 | 0.35 | 0.50 | mg/kg |
| Zinc-66 | 2.9 | 6.0 | mg/kg |
| Zinc-67 | 0.9 | 6.0 | mg/kg |

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution
Catalog Number: CGCU10
Lot Number: P2-CU682108
Matrix: 3% (v/v) HNO₃
Value / Analyte(s): 10 000 µg/mL ea:
Copper
Starting Material: Cu Metal
Starting Material Lot#: 2095
Starting Material Purity: 99.9996%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10013 ± 30 µg/mL
Density: 1.032 g/mL (measured at 20 ± 4 °C)

Assay Information:

| | |
|------------------------|---|
| Assay Method #1 | 9977 ± 50 µg/mL ICP Assay NIST SRM 3114 Lot Number: 121207 |
| Assay Method #2 | 10024 ± 26 µg/mL EDTA NIST SRM 928 Lot Number: 928 |
| Assay Method #3 | 10007 ± 46 µg/mL Calculated NIST SRM Lot Number: See Sec. 4.2 |

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char\ i}^2) / (\sum(1/u_{char\ j}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char} = [\sum(w_i)^2 (u_{char\ i})^2]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char\ a})$$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char\ a}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

| | | | | |
|-----------------|-----------------|-----------------|-----------------|-----------------|
| M Ag < 0.007542 | M Eu < 0.000942 | O Na < 0.001434 | M Se < 0.016971 | M Zn < 0.005657 |
| O Al < 0.000609 | O Fe < 0.008700 | M Nb < 0.000942 | O Si < 0.003052 | M Zr < 0.000942 |
| M As < 0.010371 | M Ga < 0.000942 | M Nd < 0.000942 | M Sm < 0.000942 | |
| M Au < 0.001885 | M Gd < 0.000942 | M Ni < 0.003781 | M Sn < 0.005657 | |
| O B < 0.003663 | M Ge < 0.005657 | M Os < 0.000942 | M Sr < 0.000942 | |
| M Ba < 0.004253 | M Hf < 0.000942 | O P < 0.031668 | M Ta < 0.000942 | |
| M Be < 0.000942 | O Hg < 0.007064 | M Pb < 0.005789 | M Tb < 0.000942 | |
| M Bi < 0.000942 | M Ho < 0.000942 | M Pd < 0.000942 | M Te < 0.004714 | |
| O Ca < 0.002304 | M In < 0.000942 | M Pr < 0.000942 | M Th < 0.000942 | |
| M Cd < 0.000942 | M Ir < 0.000942 | M Pt < 0.000942 | O Ti < 0.002801 | |
| M Ce < 0.000942 | O K < 0.000763 | M Rb < 0.000942 | M Tl < 0.000942 | |
| M Co < 0.001890 | M La < 0.000942 | M Re < 0.000942 | M Tm < 0.000942 | |
| M Cr < 0.005657 | O Li < 0.000243 | i Rh < | M U < 0.000942 | |
| M Cs < 0.000942 | M Lu < 0.000942 | M Ru < 0.039588 | M V < 0.003771 | |
| s Cu < | O Mg < 0.000320 | O S < 0.007174 | M W < 0.005657 | |
| M Dy < 0.000942 | O Mn < 0.000793 | M Sb < 0.001885 | M Y < 0.000942 | |
| M Er < 0.000942 | M Mo < 0.005657 | M Sc < 0.000942 | M Yb < 0.000942 | |

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.
- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.
- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 63.55 +2 6 Cu(H₂O)₆²⁺

Chemical Compatibility -Stable in HCl, HNO₃, H₂SO₄, HF, H₃PO₄. Avoid basic media. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO₃ / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO₃ / LDPE container.

Cu Containing Samples (Preparation and Solution) -Metal (soluble in HNO₃); Oxides (Soluble in HCl); Ores (Dissolve in HCl / HNO₃).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

| Technique/Line | Estimated D.L. | Order | Interferences (underlined indicates severe) |
|--------------------|-----------------|-------|---|
| ICP-MS 63 amu | 10 ppt | n/a | 40Ar23Na 47Ti16O, 14N12C37Cl, 16O12C35Cl, 23Na40Ca |
| ICP-OES 219.958 nm | 0.01/.002 µg/mL | 1 | Th, Ta, Nb, U, Hf |
| ICP-OES 224.700 nm | 0.01/.001 µg/mL | 1 | Pb, Ir, Ni, W |
| ICP-OES 324.754 nm | 0.06/.001 µg/mL | | Nb, U, Th, Mo, Hf |

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

August 24, 2019

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **August 24, 2023**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Manager, Quality Control



Certifying Officer:

Paul Gaines
CEO, Senior Technical Director



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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution
Catalog Number: CGPB10
Lot Number: S2-PB713228
Matrix: 0.5% (v/v) HNO₃
Value / Analyte(s): 10 000 µg/mL ea:
Lead
Starting Material: Lead Nitrate
Starting Material Lot#: 2343
Starting Material Purity: 99.9995%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10042 ± 31 µg/mL
Density: 1.015 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1 **10024 ± 41 µg/mL**
ICP Assay NIST SRM 3128 Lot Number: 101026

Assay Method #2 **10054 ± 32 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char\ i}^2) / (\sum(1/u_{char\ j}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char} = [\sum(w_i)^2 (u_{char\ i})^2]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char\ a})$$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char\ a}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

| | | | | |
|-----------------|-----------------|-----------------|-----------------|-----------------|
| M Ag < 0.000310 | M Eu < 0.000310 | M Na < 0.001470 | M Se < 0.009100 | O Zn < 0.006155 |
| O Al < 0.017098 | O Fe < 0.002496 | M Nb < 0.000310 | O Si < 0.003761 | O Zr < 0.001700 |
| M As < 0.003100 | M Ga < 0.000310 | M Nd < 0.000310 | M Sm < 0.000310 | |
| M Au < 0.000910 | M Gd < 0.000310 | O Ni < 0.001709 | M Sn < 0.001300 | |
| O B < 0.005600 | M Ge < 0.002200 | M Os < 0.000310 | O Sr < 0.000444 | |
| O Ba < 0.007865 | M Hf < 0.000310 | O P < 0.038000 | M Ta < 0.000310 | |
| O Be < 0.000320 | M Hg < 0.002200 | s Pb < 0.000610 | M Tb < 0.000610 | |
| M Bi < 0.028000 | M Ho < 0.000310 | M Pd < 0.000610 | M Te < 0.000310 | |
| O Ca < 0.019834 | M In < 0.000310 | M Pr < 0.000310 | M Th < 0.000310 | |
| O Cd < 0.000630 | M Ir < 0.000310 | M Pt < 0.000910 | O Ti < 0.005129 | |
| M Ce < 0.004787 | O K < 0.008207 | M Rb < 0.006700 | M Tl < 0.016000 | |
| M Co < 0.000610 | M La < 0.001900 | M Re < 0.000310 | M Tm < 0.000310 | |
| O Cr < 0.001500 | O Li < 0.000110 | O Rh < 0.007700 | M U < 0.000310 | |
| M Cs < 0.006100 | M Lu < 0.000310 | M Ru < 0.001300 | M V < 0.001600 | |
| M Cu < 0.001600 | O Mg < 0.003317 | O S < 0.052000 | M W < 0.000910 | |
| M Dy < 0.000310 | O Mn < 0.001600 | O Sb < 0.015000 | M Y < 0.000310 | |
| M Er < 0.000310 | M Mo < 0.000610 | O Sc < 0.000630 | M Yb < 0.000310 | |

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.
- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.
- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 207.20 +2 6 Pb(H₂O)₆+2

Chemical Compatibility - Soluble in HCl, HF and HNO₃. Avoid H₂SO₄. Stable with most metals and inorganic anions forming insoluble carbonate, borate, sulfate, sulfite, sulfide, phosphate, oxalate, chromate, tannate, iodate, and cyanide in neutral aqueous media.

Stability - 2-100 ppb levels stable for months in 1% HNO₃ / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO₃ / LDPE container.

Pb Containing Samples (Preparation and Solution) -Metal (Best dissolved in 1:1 H₂O / HNO₃); Oxides (The many different Pb oxides are soluble in HNO₃ with the exception of PbO₂ which is soluble in HCl or HF); Ores and Alloys (Best attacked using 1:1 H₂O / HNO₃); Organic Matrices (Dry ash and dissolve in dilute HCl).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

| <u>Technique/Line</u> | <u>Estimated D.L.</u> | <u>Order</u> | <u>Interferences</u> (underlined indicates severe) |
|-----------------------|-----------------------|--------------|--|
| ICP-MS 208 amu | 5 ppt | n/a | 192Pt16O, 192Os16O |
| ICP-OES 168.215 nm | 0.03 / 0.003 µg/mL | 1 | Co |
| ICP-OES 217.000 nm | 0.09 / 0.03 µg/mL | 1 | W, Ir, Hf, Sb, Th |
| ICP-OES 220.353 nm | 0.04 / 0.006 µg/mL | 1 | Bi, Nb |

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

January 10, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **January 10, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution
Catalog Number: CGZN10
Lot Number: S2-ZN711249
Matrix: 2% (v/v) HNO₃
Value / Analyte(s): 10 000 µg/mL ea:
Zinc
Starting Material: Zinc Metal
Starting Material Lot#: 2349
Starting Material Purity: 99.9988%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 9992 ± 30 µg/mL
Density: 1.029 g/mL (measured at 20 ± 4 °C)

Assay Information:

| | |
|------------------------|---|
| Assay Method #1 | 9981 ± 56 µg/mL ICP Assay NIST SRM 3168a Lot Number: 120629 |
| Assay Method #2 | 9987 ± 32 µg/mL EDTA NIST SRM 928 Lot Number: 928 |
| Assay Method #3 | 10002 ± 32 µg/mL Calculated NIST SRM Lot Number: See Sec. 4.2 |

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char\ i}^2) / (\sum(1/u_{char\ j}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char} = [\sum(w_i)^2 (u_{char\ i})^2]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char\ a})$$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char\ a}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

| | | | | |
|-----------------|-----------------|-----------------|-----------------|-----------------|
| M Ag < 0.002000 | M Eu < 0.000500 | O Na < 0.008713 | M Se < 0.048000 | s Zn < |
| O Al < 0.011000 | O Fe < 0.015467 | M Nb < 0.000500 | O Si < 0.007842 | M Zr < 0.000500 |
| O As < 0.012000 | M Ga < 0.004900 | M Nd < 0.000500 | M Sm < 0.000500 | |
| M Au < 0.006500 | M Gd < 0.000500 | O Ni < 0.003049 | M Sn < 0.002614 | |
| O B < 0.019000 | M Ge < 0.009100 | M Os < 0.000500 | M Sr < 0.000500 | |
| M Ba < 0.000500 | M Hf < 0.000500 | O P < 0.059000 | M Ta < 0.000500 | |
| O Be < 0.000230 | O Hg < 0.003800 | M Pb < 0.016774 | M Tb < 0.000500 | |
| M Bi < 0.002400 | M Ho < 0.000500 | M Pd < 0.001000 | M Te < 0.017000 | |
| O Ca < 0.052283 | M In < 0.003500 | M Pr < 0.000500 | M Th < 0.000500 | |
| O Cd < 0.000588 | M Ir < 0.001000 | M Pt < 0.000500 | M Ti < 0.002000 | |
| M Ce < 0.000500 | O K < 0.017209 | M Rb < 0.002500 | M Tl < 0.000500 | |
| M Co < 0.000653 | M La < 0.000500 | M Re < 0.000500 | M Tm < 0.000500 | |
| O Cr < 0.001089 | O Li < 0.000230 | M Rh < 0.000500 | M U < 0.000500 | |
| M Cs < 0.000500 | M Lu < 0.000500 | M Ru < 0.005000 | M V < 0.000500 | |
| O Cu < 0.001938 | O Mg < 0.000871 | O S < 0.048000 | M W < 0.001000 | |
| M Dy < 0.000500 | O Mn < 0.000172 | M Sb < 0.004300 | M Y < 0.000500 | |
| M Er < 0.000500 | M Mo < 0.001500 | O Sc < 0.000900 | M Yb < 0.000500 | |

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.
- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.
- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 65.39 +2 4 Zn(OH)(aq)1+

Chemical Compatibility -Stable in HCl, HNO₃, H₂SO₄, HF, H₃PO₄. Avoid basic media forming insoluble carbonate and hydroxide. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO₃ / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO₃ / LDPE container.

Zn Containing Samples (Preparation and Solution) -Metal (soluble in HNO₃); Oxides (Soluble in HCl); Ores (Dissolve in HCl / HNO₃); Organic based (dry ash at 4500C and dissolve ash in HCl) (sulfuric/peroxide acid digestion)

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

| Technique/Line | Estimated D.L. | Order | Interferences (underlined indicates severe) |
|--------------------|--------------------|-------|--|
| ICP-MS 66 amu | 7 ppt | N/A | 50Ti16O,50Cr16O, 50V16O, 34S16O2, 32S16O18O, 32S17O2, 33S16O17O, 32S34S, 33S2 |
| ICP-OES 202.548 nm | 0.004/0.0002 µg/mL | 1 | Nb, Cu, Co, Hf |
| ICP-OES 206.200 nm | 0.006/0.0006 µg/mL | 1 | Sb, Ta, Bi, Os |
| ICP-OES 213.856 nm | 0.002/0.0004 µg/mL | 1 | Ni, Cu, V |

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

November 22, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **November 22, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution
Catalog Number: CGSE10
Lot Number: S2-SE711004
Matrix: 3% (v/v) HNO3
Value / Analyte(s): 10 000 µg/mL ea:
Selenium
Starting Material: Se Metal
Starting Material Lot#: 1962
Starting Material Purity: 99.9991%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 9955 ± 61 µg/mL
Density: 1.035 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1 **9955 ± 50 µg/mL**
ICP Assay NIST SRM 3149 Lot Number: 100901

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{char i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char i}^2) / (\sum(1/(u_{char i}^2)))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

u_{char} = $[\sum(w_i)^2 (u_{char i})^2]^{1/2}$ where $u_{char i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a)(u_{char a})$$

X_a = mean of Assay Method A with

$u_{char a}$ = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char a}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

| | | | | | | | | | | | |
|--------|----------|---|------|----------|--------|----------|--------|----------|--------|----------|----------|
| M Ag < | 0.002242 | M | Eu < | 0.000373 | O Na | 0.013654 | s | Se < | | O Zn | 0.002374 |
| M Al | 0.004450 | M | Fe | 0.008478 | O Nb < | 0.002975 | O Si | 0.006249 | M Zr < | 0.001868 | |
| O As < | 0.022040 | M | Ga < | 0.000373 | M Nd < | 0.000373 | M Sm < | 0.000373 | | | |
| M Au < | 0.000373 | M | Gd < | 0.000373 | O Ni | 0.001843 | M Sn | 0.000847 | | | |
| O B < | 0.007714 | M | Ge < | 0.002616 | M Os < | 0.000373 | M Sr < | 0.001121 | | | |
| M Ba < | 0.001495 | M | Hf < | 0.000373 | O P < | 0.022040 | M Ta < | 0.000373 | | | |
| M Be < | 0.001495 | M | Hg < | 0.002240 | M Pb | 0.006358 | M Tb < | 0.006353 | | | |
| M Bi < | 0.000373 | M | Ho < | 0.000373 | M Pd < | 0.000373 | M Te < | 0.012707 | | | |
| O Ca | 0.006530 | M | In < | 0.000373 | M Pr < | 0.001495 | M Th < | 0.002990 | | | |
| M Cd | 0.001165 | M | Ir < | 0.000373 | M Pt < | 0.000373 | M Ti < | 0.003363 | | | |
| M Ce < | 0.000373 | O | K | 0.001999 | M Rb < | 0.001868 | M Tl | 0.008584 | | | |
| M Co < | 0.000373 | M | La < | 0.001121 | M Re < | 0.000373 | M Tm < | 0.000373 | | | |
| M Cr | 0.002861 | O | Li | 0.000062 | M Rh < | 0.000373 | M U < | 0.000373 | | | |
| M Cs < | 0.001121 | M | Lu < | 0.000373 | M Ru < | 0.001493 | M V < | 0.000747 | | | |
| M Cu < | 0.000747 | O | Mg | 0.001156 | O S | 0.024591 | M W < | 0.002242 | | | |
| M Dy < | 0.000373 | M | Mn < | 0.000373 | M Sb < | 0.002242 | M Y < | 0.000373 | | | |
| M Er < | 0.000373 | O | Mo < | 0.003195 | M Sc < | 0.001121 | M Yb < | 0.000373 | | | |

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 78.96 +4 6 H₂SeO₃

Chemical Compatibility -Soluble in HCl, HNO₃,H₃PO₄, H₂SO₄ and HF aqueous matrices and water. It is stable with most inorganic anions but many cationic metals form the insoluble selenites under pH neutral conditions. When fluorinated and/or under acidic conditions precipitation is typically not a problem at moderate to low concentrations.

Stability - 2-100 ppb levels stable for months alone or mixed with other elements at equivalent levels in 1% HNO₃ / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO₃ / LDPE container.

Se Containing Samples (Preparation and Solution) -Metal (soluble in HNO₃); Oxides (readily soluble in water); Minerals and alloys (acid digestion with HNO₃or HNO₃ / HF); Organic Matrices (acid digestion with hot concentrated H₂SO₄ accompanied by the careful dropwise addition of H₂O₂ until clear).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

| Technique/Line | Estimated D.L. | Order | Interferences (underlined indicates severe) |
|--------------------|------------------|-------|---|
| ICP-MS 82 amu | 200 ppt | N/A | 12C35Cl2 |
| ICP-OES 196.026 nm | 0.08/0.006 µg/mL | 1 | Fe |
| ICP-OES 203.985 nm | 0.2/0.05 µg/mL | 1 | Sb, Ir, Cr, Ta |
| ICP-OES 206.279 nm | 0.3/0.16 µg/mL | 1 | Cr, Pt |

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

November 17, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **November 17, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Supervisor, Product Documentation



Certificate Approved By:

Michael Booth
Director, Technical



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



300 Technology Drive
Christiansburg, VA 24073 USA
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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution
Catalog Number: CGMO10
Lot Number: S2-MO706255
Matrix: H2O
tr. NH4OH
Value / Analyte(s): 10 000 µg/mL ea:
Molybdenum
Starting Material: Ammonium Molybdate
Starting Material Lot#: 2361
Starting Material Purity: 99.9893%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10026 ± 47 µg/mL
Density: 1.011 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1 **10032 ± 68 µg/mL**
ICP Assay NIST SRM 3134 Lot Number: 130418

Assay Method #2 **10020 ± 65 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char\ i}^2) / (\sum(1/u_{char\ j}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char} = [\sum(w_i)^2 (u_{char\ i})^2]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char\ a})$$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char\ a}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

| | | | | |
|-----------------|-----------------|-----------------|-----------------|-----------------|
| M Ag < 0.000590 | M Eu < 0.000300 | M Na < 0.008739 | M Se < 0.008000 | M Zn < 0.005942 |
| M Al < 0.005592 | M Fe < 0.006500 | M Nb < 0.029000 | i Si < 0.001800 | M Zr < 0.001800 |
| M As < 0.002100 | M Ga < 0.000300 | i Nd < 0.000300 | M Sm < 0.000300 | |
| M Au < 0.000300 | M Gd < 0.000300 | M Ni < 0.008000 | M Sn < 0.008900 | |
| M B < 0.003300 | M Ge < 0.000300 | M Os < 0.000590 | M Sr < 0.001747 | |
| M Ba < 0.016778 | M Hf < 0.001800 | i P < 0.004200 | M Ta < 0.004200 | |
| M Be < 0.000890 | M Hg < 0.003300 | M Pb < 0.000300 | M Tb < 0.000300 | |
| M Bi < 0.000890 | M Ho < 0.000300 | M Pd < 0.001800 | M Te < 0.021000 | |
| O Ca < 0.062920 | M In < 0.032000 | M Pr < 0.013000 | M Th < 0.000300 | |
| O Cd < 0.026000 | M Ir < 0.000300 | M Pt < 0.000300 | O Ti < 0.032000 | |
| M Ce < 0.008300 | M K < 1.293372 | M Rb < 0.045442 | M Tl < 0.012584 | |
| M Co < 0.005942 | M La < 0.000300 | M Re < 0.000300 | M Tm < 0.000300 | |
| M Cr < 0.005243 | O Li < 0.000594 | M Rh < 0.000300 | M U < 0.005300 | |
| M Cs < 0.005243 | M Lu < 0.000300 | M Ru < 0.079000 | M V < 0.000890 | |
| M Cu < 0.022371 | M Mg < 0.005592 | i S < 0.873900 | M W < 0.873900 | |
| M Dy < 0.000300 | M Mn < 0.005900 | M Sb < 0.015031 | M Y < 0.000300 | |
| M Er < 0.000300 | s Mo < 0.000300 | M Sc < 0.001200 | M Yb < 0.000300 | |

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.
- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.
- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 95.94 +6 6,7,8,9

[MoO4]-2(chemical form as received)

Chemical Compatibility -Mo is received in a NH4OH matrix giving the operator the option of using HCl or HF to stabilize acidic solutions. The [MoO4]-2 is soluble in concentrated HCl [MoOCl5]-2, dilute HF / HNO3 [MoOF5]-2 and basic media [MoO4]-2. Stable at ppm levels with some metals provided it is fluorinated. Do not mix with Alkaline or Rare Earths when HF is present. Stable with most inorganic anions provided it is in the [MoO4]-2 chemical form.

Stability - 2-100 ppb levels stable (alone or mixed with all other metals that are at comparable levels) as the [MoOF5]-2 for months in 1% HNO3 / LDPE container. 1-10,000 ppm single element solutions as the [MoO4]-2 chemically stable for years in 1% NH4OH in a LDPE container.

Mo Containing Samples (Preparation and Solution) -Metal (Soluble in HF / HNO3 or hot dilute HCl); Oxide (soluble in HF or NH4OH) ; Organic Matrices (Dry ash at 450EC in Pt0 and dissolve oxide with HF or HCl).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

| Technique/Line | Estimated D.L. | Order | Interferences (underlined indicates severe) |
|--------------------|----------------------|-------|---|
| ICP-MS 95 amu | 3 ppt | n/a | 40Ar39K16O,79Br1 60,190Os2+,190Pt 2+ |
| ICP-OES 202.030 nm | 0.008 / 0.0002 µg/mL | 1 | Os, Hf |
| ICP-OES 203.844 nm | 0.012 / 0.002 µg/mL | 1 | |
| ICP-OES 204.598 nm | 0.012 / 0.001 µg/mL | 1 | Ir, Ta |

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

July 04, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **July 04, 2025**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution
Catalog Number: CGTL10
Lot Number: T2-TL714687
Matrix: 5% (v/v) HNO₃
Value / Analyte(s): 10 000 µg/mL ea:
Thallium
Starting Material: TINO₃
Starting Material Lot#: 2118
Starting Material Purity: 99.9998%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10030 ± 42 µg/mL
Density: 1.036 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1 **10040 ± 43 µg/mL**
ICP Assay NIST SRM 3158 Lot Number: 151215

Assay Method #2 **10010 ± 65 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{char i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char i}^2) / (\sum(1/u_{char j}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char} = [\sum(w_i)^2 (u_{char i}^2)]^{1/2}$ where $u_{char i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char a})$$

X_a = mean of Assay Method A with

$u_{char a}$ = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char a}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES ($\mu\text{g/mL}$)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 μm .

| | | | | |
|-----------------|-----------------|-----------------|-----------------|-----------------|
| M Ag < 0.000200 | M Eu < 0.000200 | O Na < 0.002489 | M Se < 0.011019 | O Zn < 0.002298 |
| O Al < 0.004184 | O Fe < 0.002824 | M Nb < 0.000200 | O Si < 0.003760 | M Zr < 0.000200 |
| M As < 0.002003 | M Ga < 0.000200 | M Nd < 0.000200 | M Sm < 0.000200 | |
| O Au < 0.002824 | M Gd < 0.000200 | M Ni < 0.001724 | M Sn < 0.000601 | |
| O B < 0.004184 | M Ge < 0.000801 | M Os < 0.000198 | O Sr < 0.000313 | |
| M Ba < 0.000400 | M Hf < 0.000200 | O P < 0.010460 | M Ta < 0.000200 | |
| O Be < 0.000104 | M Hg < 0.000794 | M Pb < 0.000811 | M Tb < 0.000200 | |
| M Bi < 0.005209 | M Ho < 0.000200 | M Pd < 0.000400 | M Te < 0.005008 | |
| O Ca < 0.002436 | M In < 0.000200 | M Pr < 0.000200 | M Th < 0.000200 | |
| M Cd < 0.001318 | M Ir < 0.000198 | M Pt < 0.000801 | O Ti < 0.001255 | |
| M Ce < 0.000200 | O K < 0.006175 | M Rb < 0.000200 | s Tl < | |
| M Co < 0.000601 | M La < 0.000200 | M Re < 0.000200 | M Tm < 0.000200 | |
| M Cr < 0.000801 | O Li < 0.000177 | M Rh < 0.000200 | M U < 0.000200 | |
| M Cs < 0.003606 | M Lu < 0.000200 | M Ru < 0.000397 | M V < 0.002203 | |
| M Cu < 0.001001 | O Mg < 0.000529 | O S < 0.015690 | M W < 0.000601 | |
| M Dy < 0.000200 | M Mn < 0.000801 | M Sb < 0.000400 | M Y < 0.000200 | |
| M Er < 0.000200 | M Mo < 0.001202 | O Sc < 0.000711 | M Yb < 0.000200 | |

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.
- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.
- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 204.38 +1 6 Ti(H₂O)₆+
Chemical Compatibility - Soluble in HCl, HNO₃, and H₂SO₄. Stable with most metals and inorganic anions. The sulfite, thiocyanate and oxalate are moderately soluble; the phosphate and arsenite are slightly soluble and the sulfide is insoluble.

Stability - 2-100 ppb levels stable for months in 1% HNO₃ / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO₃ / LDPE container.

Ti Containing Samples)Preparation and Solution) -Metal (Best dissolved in HNO₃ which forms chiefly the Ti³⁺ ion.); Oxide (The thalious oxide is readily soluble in water. The thallic oxide requires high levels of acid); Ores (Carbonate fusion in Pt₀ followed by HCl dissolution); Organic Matrices (Sulfuric/peroxide digestion or dry ash and dissolution in HCl).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

| Technique/Line | Estimated D.L. | Order | Interferences (underlined indicates severe) |
|-----------------------|-----------------------|--------------|--|
| ICP-MS 205 amu | 2 ppt | N/A | 189Os16O |
| ICP-OES 190.864 nm | 0.04 / 0.004 µg/mL | 1 | V, Ti |
| ICP-OES 276.787 nm | 0.1 / 0.01 µg/mL | 1 | Ta, V, Fe, Cr |
| ICP-OES 351.924 nm | 0.2 / 0.02 µg/mL | 1 | Th, Ce, Zr |

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

February 08, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **February 08, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution
Catalog Number: CGCD10
Lot Number: S2-CD710508
Matrix: 3% (v/v) HNO₃
Value / Analyte(s): 10 000 µg/mL ea:
Cadmium
Starting Material: Cd Metal
Starting Material Lot#: 1953
Starting Material Purity: 99.9995%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10008 ± 30 µg/mL
Density: 1.029 g/mL (measured at 20 ± 4 °C)

Assay Information:

| | |
|------------------------|---|
| Assay Method #1 | 10010 ± 32 µg/mL EDTA NIST SRM 928 Lot Number: 928 |
| Assay Method #2 | 10011 ± 30 µg/mL ICP Assay NIST SRM 3108 Lot Number: 130116 |
| Assay Method #3 | 10003 ± 30 µg/mL Calculated NIST SRM Lot Number: See Sec. 4.2 |

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char\ i}^2) / (\sum(1/u_{char\ j}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char} = [\sum(w_i)^2 (u_{char\ i})^2]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char\ a})$$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char\ a}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES ($\mu\text{g/mL}$)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 μm .

| | | | | |
|-----------------|-----------------|-----------------|-----------------|-----------------|
| O Ag < 0.003200 | O Eu < 0.002500 | O Na < 0.005499 | M Se < 0.005700 | O Zn < 0.001100 |
| O Al < 0.008903 | O Fe < 0.000602 | M Nb < 0.000400 | O Si < 0.016758 | O Zr < 0.002600 |
| M As < 0.003600 | M Ga < 0.001200 | M Nd < 0.000800 | M Sm < 0.000400 | |
| M Au < 0.000810 | M Gd < 0.000400 | M Ni < 0.003600 | M Sn < 0.003200 | |
| O B < 0.004189 | O Ge < 0.012000 | M Os < 0.000810 | O Sr < 0.000330 | |
| M Ba < 0.002400 | M Hf < 0.000400 | O P < 0.022000 | M Ta < 0.000800 | |
| M Be < 0.000400 | M Hg < 0.001700 | M Pb < 0.002400 | M Tb < 0.000400 | |
| M Bi < 0.000400 | M Ho < 0.000400 | M Pd < 0.001200 | M Te < 0.008000 | |
| O Ca < 0.011259 | O In < 0.013000 | M Pr < 0.000400 | M Th < 0.000400 | |
| s Cd < 0.000400 | M Ir < 0.000410 | M Pt < 0.000400 | O Ti < 0.000602 | |
| M Ce < 0.000400 | O K < 0.005237 | M Rb < 0.004400 | M Tl < 0.000523 | |
| M Co < 0.000400 | M La < 0.000400 | M Re < 0.000400 | M Tm < 0.000400 | |
| O Cr < 0.005100 | O Li < 0.000054 | M Rh < 0.000400 | M U < 0.000400 | |
| M Cs < 0.002400 | M Lu < 0.000400 | M Ru < 0.002500 | M V < 0.002000 | |
| O Cu < 0.004800 | O Mg < 0.000288 | O S < 0.022000 | M W < 0.000400 | |
| M Dy < 0.000400 | O Mn < 0.000860 | O Sb < 0.018000 | M Y < 0.000400 | |
| M Er < 0.000400 | M Mo < 0.001600 | O Sc < 0.000430 | M Yb < 0.000400 | |

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.
- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.
- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 112.41 +2 4 Cd₂(OH)(aq)₃₊ and Cd(OH)(aq)

Chemical Compatibility -Stable in HCl, HNO₃, H₂SO₄, and HF. Avoid basic media forming insoluble carbonate and hydroxide.

Stability - 2-100 ppb levels stable for months in 1% HNO₃ / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5 % HNO₃ / LDPE container.

Cd Containing Samples (Preparation and Solution) -Metal (soluble in HNO₃); Oxides (soluble in HCl or HNO₃); Ores (dissolve in HCl /HNO₃ then take to fumes with H₂SO₄. The silica and lead sulfate are filtered off after the addition of water); Organic based (dry ash at 450°C and dissolve ash in HCl), (sulfuric / peroxide acid digestion).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

| Technique/Line | Estimated D.L. | Order | Interferences (underlined indicates severe) |
|--------------------|----------------------|-------|---|
| ICP-MS 111 amu | 11 ppt | n/a | 95Mo16O |
| ICP-OES 214.438 nm | 0.003 / 0.0003 µg/mL | 1 | Pt, Ir |
| ICP-OES 226.502 nm | 0.003 / 0.0003 µg/mL | 1 | Ir |
| ICP-OES 228.802 nm | 0.003 / 0.0003 µg/mL | 1 | Co, Ir, As, Pt |

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

November 01, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **November 01, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution
Catalog Number: CGMN10
Lot Number: S2-MN704240
Matrix: 3% (v/v) HNO₃
Value / Analyte(s): 10 000 µg/mL ea:
Manganese
Starting Material: Mn Metal
Starting Material Lot#: 2275
Starting Material Purity: 99.9909%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10011 ± 30 µg/mL
Density: 1.035 g/mL (measured at 20 ± 4 °C)

Assay Information:

| | |
|------------------------|---|
| Assay Method #1 | 9989 ± 69 µg/mL ICP Assay NIST SRM 3132 Lot Number: 050429 |
| Assay Method #2 | 10011 ± 25 µg/mL EDTA NIST SRM 928 Lot Number: 928 |
| Assay Method #3 | 10024 ± 47 µg/mL Calculated NIST SRM Lot Number: See Sec. 4.2 |

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char\ i}^2) / (\sum(1/u_{char\ j}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char} = [\sum(w_i)^2 (u_{char\ i}^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char\ a})$$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char\ a}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

| | | | | |
|-----------------|-----------------|-----------------|-----------------|-----------------|
| M Ag < 0.001500 | M Eu < 0.000730 | O Na 0.176097 | M Se < 0.006600 | M Zn 0.009925 |
| O Al 0.004322 | M Fe < 0.650000 | M Nb < 0.000730 | O Si 0.097654 | M Zr < 0.000730 |
| M As < 0.008000 | M Ga 0.004322 | M Nd < 0.001500 | M Sm < 0.000730 | |
| M Au < 0.000730 | M Gd < 0.000730 | M Ni 0.024013 | M Sn < 0.002200 | |
| M B 0.068838 | M Ge < 0.004400 | M Os < 0.000730 | O Sr 0.000928 | |
| M Ba < 0.001500 | M Hf < 0.000730 | i P < | M Ta < 0.000730 | |
| M Be < 0.000730 | M Hg < 0.002200 | M Pb 0.007364 | M Tb < 0.000730 | |
| M Bi < 0.003000 | M Ho < 0.000730 | M Pd < 0.000730 | M Te < 0.019000 | |
| O Ca 0.062434 | M In < 0.003000 | M Pr < 0.000730 | M Th < 0.000730 | |
| M Cd < 0.001500 | M Ir < 0.000730 | M Pt < 0.000730 | O Ti < 0.006500 | |
| M Ce < 0.007300 | O K 0.006403 | M Rb < 0.006600 | M Tl < 0.000730 | |
| O Co 0.014728 | M La < 0.003000 | M Re < 0.000730 | M Tm < 0.000730 | |
| O Cr 0.272151 | O Li 0.000416 | M Rh < 0.003000 | M U < 0.001500 | |
| M Cs < 0.000730 | M Lu < 0.000730 | M Ru < 0.004400 | M V < 0.000730 | |
| O Cu 0.007684 | O Mg 0.320177 | i S < | M W < 0.004400 | |
| M Dy < 0.001500 | s Mn < | M Sb < 0.021000 | O Y 0.001360 | |
| M Er < 0.001500 | M Mo 0.010245 | O Sc < 0.004100 | M Yb < 0.000730 | |

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.
- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.
- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 54.94 +2 6 Mn(H₂O)₆2+

Chemical Compatibility -Stable in HCl, HNO₃, H₂SO₄, HF, H₃PO₄. Avoid basic media. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO₃ / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5 % HNO₃/LDPE container.

Mn Containing Samples (Preparation and Solution) -Metal (Soluble in dilute acids); Oxides (Soluble in dilute acids); Ores (Dissolve with HCl. If silica is present add HF and then fume off silica by adding H₂SO₄ and heat to SO₃ fumes - dense white fumes).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

| Technique/Line | Estimated D.L. | Order | Interferences (underlined indicates severe) |
|--------------------|------------------------|-------|--|
| ICP-MS 55 amu | 10 ppt | n/a | 40Ar14N1H,39K16 O,37Cl18O,40Ar15 N,38Ar17O,36Ar18O 1H ,38Ar16O1H,37Cl17 O1H,23Na32S |
| ICP-OES 257.610 nm | 0.0014 / 0.00002 µg/mL | 1 | Ce, W, Re |
| ICP-OES 259.373 nm | 0.0016 / 0.00002 µg/mL | 1 | U, Ta, Mo, Fe, Nb |
| ICP-OES 260.569 nm | 0.0021 / 0.00002 µg/mL | 1 | Co |

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

April 17, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **April 17, 2025**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution
 Catalog Number: CGSB10
 Lot Number: R2-SB688559
 Matrix: 3% (v/v) HNO3
 3% (w/v) tartaric acid
 Value / Analyte(s): 10 000 µg/mL ea:
 Antimony
 Starting Material: Antimony Metal
 Starting Material Lot#: 1857
 Starting Material Purity: 99.9894%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10003 ± 47 µg/mL
Density: 1.061 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1 10003 ± 41 µg/mL
 ICP Assay NIST SRM 3102a Lot Number: 140911

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i) (X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{char i}$
 w_i = the weighting factors for each method calculated using the inverse square of the variance:
 $w_i = (1/u_{char i}^2) / (\sum(1/u_{char i}^2))$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2
 u_{char} = $[\sum((w_i)^2 (u_{char i})^2)]^{1/2}$ where $u_{char i}$ are the errors from each characterization method
 u_{bb} = bottle to bottle homogeneity standard uncertainty
 u_{lts} = long term stability standard uncertainty (storage)
 u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char a})$$

X_a = mean of Assay Method A with
 $u_{char a}$ = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char a}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2
 $u_{char a}$ = the errors from characterization
 u_{bb} = bottle to bottle homogeneity standard uncertainty
 u_{lts} = long term stability standard uncertainty (storage)
 u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

| | | | | | | | | | |
|--------|----------|--------|----------|--------|----------|--------|----------|--------|----------|
| M Ag < | 0.000200 | M Eu < | 0.000300 | O Na | 0.140000 | M Se < | 0.007300 | O Zn | 0.005000 |
| M Al | 0.003200 | O Fe | 0.060000 | M Nb < | 0.000100 | O Si | 0.150000 | O Zr < | 0.006300 |
| M As < | 0.004400 | M Ga < | 0.000400 | M Nd < | 0.000100 | M Sm < | 0.000100 | | |
| M Au < | 0.000210 | M Gd < | 0.000100 | O Ni | 0.004800 | M Sn < | 0.001800 | | |
| M B < | 0.011000 | M Ge < | 0.000600 | M Os < | 0.000110 | O Sr | 0.000750 | | |
| O Ba < | 0.004900 | M Hf < | 0.000100 | O P | 0.540000 | M Ta | 0.003300 | | |
| M Be < | 0.000400 | M Hg < | 0.000110 | M Pb < | 0.000400 | M Tb < | 0.000100 | | |
| M Bi < | 0.000200 | M Ho < | 0.000100 | M Pd < | 0.000210 | M Te < | 0.000600 | | |
| O Ca | 0.110000 | M In < | 0.000100 | M Pr < | 0.001600 | M Th < | 0.000100 | | |
| M Cd < | 0.000200 | M Ir < | 0.000110 | M Pt < | 0.000600 | M Ti < | 0.002800 | | |
| M Ce | 0.006500 | O K | 0.020000 | M Rb < | 0.001000 | M Tl < | 0.000100 | | |
| M Co < | 0.000200 | O La < | 0.016000 | M Re < | 0.000100 | M Tm < | 0.000100 | | |
| M Cr | 0.006900 | O Li < | 0.000430 | M Rh < | 0.000300 | M U < | 0.000100 | | |
| M Cs < | 0.000200 | M Lu < | 0.000100 | M Ru < | 0.000310 | M V < | 0.000800 | | |
| M Cu < | 0.000600 | O Mg | 0.021000 | n S < | | M W < | 0.000200 | | |
| M Dy < | 0.000100 | O Mn | 0.001900 | s Sb < | | M Y < | 0.000100 | | |
| M Er < | 0.000100 | M Mo < | 0.000500 | O Sc < | 0.002300 | M Yb < | 0.000100 | | |

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 121.75 +3 6 Sb(O)C₄H₄O₆-1

Chemical Compatibility -Stable in conc. HCl, dilute or conc. HF. Stable in dilute HNO₃ as the fluoride or tartrate complex. Avoid basic media. Stable with most metals and inorganic anions in acidic media as the tartrate provided the acidity is not too high or the acid is oxidizing causing loss of the stabilizing tartrate ion. The fluoride complex of antimony is stable in strong acid but you should only mix with other metals that are fluorinated.

Stability - 2-100 ppb levels stable for months in 1% HNO₃ / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-2% HNO₃ / LDPE container.

Sb Containing Samples (Preparation and Solution) -Metal and alloys (Soluble in H₂O / HF / HNO₃ mixture); Oxides (Soluble in HCl and tartaric acid or H₂O / HF / HNO₃ mixtures); Ores (fusion with Na₂CO₃ in PtO followed by dissolving the fuseate in a H₂O / HF / HNO₃ mixture); Organic based (sulfuric acid / hydrogen peroxide digestion)

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

| Technique/Line | Estimated D.L. | Order | Interferences (underlined indicates severe) |
|-----------------------|-----------------------|--------------|--|
| ICP-MS 121 amu | 5 ppt | N/A | 105Pd16O, 89Y16O2 |
| ICP-OES 206.833 nm | 0.03/0.003 µg/mL | 1 | Ta, Cr, Ge, Hf |
| ICP-OES 217.581 nm | 0.05/0.005 µg/mL | 1 | Nb, W, Re, Fe |
| ICP-OES 231.147 nm | 0.06/0.006 µg/mL | 1 | Ni, Co, Pt |

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

April 30, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **April 30, 2024**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Manager, Quality Control



Certifying Officer:

Paul Gaines
CEO, Senior Technical Director



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Christiansburg, VA 24073 USA
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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution
Catalog Number: CGAS10
Lot Number: T2-AS718260
Matrix: 2% (v/v) HNO₃
Value / Analyte(s): 10 000 µg/mL ea:
Arsenic
Starting Material: As Metal
Starting Material Lot#: 2208
Starting Material Purity: 99.9971%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10060 ± 40 µg/mL
Density: 1.037 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1 **10062 ± 46 µg/mL**
ICP Assay NIST SRM 3103a Lot Number: 100818

Assay Method #2 **10055 ± 76 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{char i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char i}^2) / (\sum(1/u_{char j}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char} = [\sum(w_i)^2 (u_{char i}^2)]^{1/2}$ where $u_{char i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char a})$$

X_a = mean of Assay Method A with

$u_{char a}$ = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char a}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES ($\mu\text{g/mL}$)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 μm .

| | | | | | | | | | |
|--------|----------|--------|----------|--------|----------|--------|----------|--------|----------|
| M Ag < | 0.003200 | M Eu < | 0.000530 | O Na | 0.032544 | M Se < | 0.006300 | O Zn | 0.001952 |
| M Al | 0.007593 | O Fe | 0.001475 | O Nb < | 0.012000 | O Si | 0.238658 | O Zr < | 0.004100 |
| s As < | | M Ga < | 0.000530 | M Nd < | 0.000530 | M Sm < | 0.000530 | | |
| M Au < | 0.003100 | M Gd < | 0.000530 | M Ni < | 0.002100 | M Sn < | 0.000530 | | |
| M B | 0.026035 | M Ge < | 0.001600 | M Os < | 0.000520 | M Sr < | 0.000530 | | |
| M Ba < | 0.000530 | M Hf < | 0.000530 | O P < | 0.043000 | M Ta < | 0.000530 | | |
| O Be < | 0.000360 | M Hg < | 0.001600 | M Pb < | 0.002100 | M Tb < | 0.000530 | | |
| M Bi < | 0.000530 | M Ho < | 0.000530 | M Pd < | 0.001100 | M Te < | 0.004700 | | |
| O Ca | 0.004339 | M In < | 0.023000 | M Pr < | 0.005300 | M Th < | 0.000530 | | |
| M Cd < | 0.001100 | M Ir < | 0.000520 | M Pt < | 0.000530 | O Ti < | 0.002300 | | |
| M Ce < | 0.000530 | O K | 0.002061 | M Rb < | 0.000530 | M Tl < | 0.000530 | | |
| M Co < | 0.000530 | M La < | 0.001100 | M Re < | 0.000530 | M Tm < | 0.000530 | | |
| O Cr < | 0.001800 | O Li < | 0.000120 | M Rh < | 0.000530 | M U < | 0.000530 | | |
| M Cs < | 0.005300 | M Lu < | 0.000530 | M Ru < | 0.000520 | M V < | 0.002700 | | |
| M Cu < | 0.001600 | O Mg | 0.000154 | O S | 0.028205 | M W < | 0.012000 | | |
| M Dy < | 0.000530 | O Mn | 0.000154 | M Sb < | 0.000530 | M Y < | 0.000530 | | |
| M Er < | 0.000530 | M Mo < | 0.000530 | O Sc < | 0.001700 | M Yb < | 0.000530 | | |

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.
- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.
- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 74.92 ; mix of +3 and +5 ; 6 ; H3AsO4 and HAsO2

Chemical Compatibility - Arsenic has no cationic chemistry. It is soluble in HCl, HNO3, H3PO4, H2SO4 and HF aqueous matrices water and NH4OH . It is stable with most inorganic anions (forms arsenate when boiled with chromate) but many cationic metals form the insoluble arsenates under pH neutral conditions. When fluorinated and / or under acidic conditions arsenate formation is typically not a problem at moderate to low concentrations.

Stability - 2-100 ppb levels stable for months alone or mixed with other elements at equivalent levels in 1% HNO3 / LDPE container.

As Containing Samples (Preparation and Solution) - Metal (soluble in 1:1 H2O / HNO3); Oxides (the oxide exists in crystalline and amorphous forms where the amorphous form is more water soluble. The oxides typically dissolve in dilute acidic solutions when boiled); Minerals (one gram of powdered sample is fused in a Ni crucible with 10 grams of a 1:1 mix of K2CO3 and KNO3 and the melt extracted with hot water); Organic Matrices (0.2 to 0.5 grams of sample are fused with 15 grams of a 1:1 Na2CO3 / Na2O2 mix in a Ni crucible. The fuseate is extracted with water and acidified with HNO3).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

| Technique/Line | Estimated D.L. | Order | Interferences (underlined indicates severe) |
|-----------------------|-----------------------|--------------|---|
| ICP-MS 75 amu | 20 ppt | N/A | 40Ar35Cl, 59Co16O, 36Ar38Ar1H,8Ar37C I,Ar39K, 150Nd2+,150Sm2+ |
| ICP-OES 189.042 nm | 0.05/0.005 µg/mL | 1 | Cr |
| ICP-OES 193.696 nm | 0.1/0.01 µg/mL | 1 | V, Ge |
| ICP-OES 228.812 nm | 0.1/0.01 µg/mL | 1 | Cd, Pt, Ir, Co |

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

May 10, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **May 10, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Supervisor, Product Documentation



Certificate Approved By:

Michael Booth
Director, Technical



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution
Catalog Number: CGBA10
Lot Number: R2-BA692576
Matrix: 2% (v/v) HNO₃
Value / Analyte(s): 10 000 µg/mL ea:
Barium
Starting Material: Barium Nitrate
Starting Material Lot#: 1969
Starting Material Purity: 99.9982%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10022 ± 30 µg/mL
Density: 1.025 g/mL (measured at 20 ± 4 °C)

Assay Information:

| | |
|------------------------|--|
| Assay Method #1 | 10018 ± 50 µg/mL ICP Assay NIST SRM 3104a Lot Number: 140909 |
| Assay Method #2 | 10023 ± 31 µg/mL Gravimetric NIST SRM Lot Number: See Sec. 4.2 |
| Assay Method #3 | 10023 ± 30 µg/mL Calculated NIST SRM Lot Number: See Sec. 4.2 |

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{char i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char i}^2) / (\sum(1/u_{char j}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char} = [\sum((w_i)^2 (u_{char i})^2)]^{1/2}$ where $u_{char i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char a})$$

X_a = mean of Assay Method A with

$u_{char a}$ = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char a}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES ($\mu\text{g/mL}$)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an UPLA-Filtered Clean Room. An UPLA-Filter is 99.9985% efficient for the removal of particles down to 0.3 μm .

| | | | | |
|-----------------|-----------------|-----------------|-----------------|-----------------|
| M Ag < 0.000410 | O Eu < 0.005200 | O Na < 0.004610 | M Se < 0.003700 | O Zn < 0.000658 |
| M Al < 0.003100 | O Fe < 0.015707 | M Nb < 0.000210 | O Si < 0.005573 | M Zr < 0.001300 |
| M As < 0.001300 | M Ga < 0.000210 | M Nd < 0.000210 | O Sm < 0.021000 | |
| M Au < 0.001300 | M Gd < 0.000210 | M Ni < 0.000810 | M Sn < 0.000410 | |
| O B < 0.005200 | M Ge < 0.002500 | M Os < 0.000410 | O Sr < 0.003850 | |
| s Ba < 0.000320 | M Hf < 0.000810 | O P < 0.026000 | M Ta < 0.000410 | |
| O Be < 0.000320 | M Hg < 0.000210 | M Pb < 0.002300 | M Tb < 0.000210 | |
| M Bi < 0.000210 | M Ho < 0.000210 | M Pd < 0.000210 | M Te < 0.001900 | |
| O Ca < 0.007093 | M In < 0.000210 | M Pr < 0.000210 | M Th < 0.000210 | |
| M Cd < 0.000210 | M Ir < 0.000210 | M Pt < 0.000210 | M Ti < 0.002100 | |
| M Ce < 0.001300 | O K < 0.035467 | M Rb < 0.002100 | M Tl < 0.000210 | |
| M Co < 0.000410 | O La < 0.005200 | M Re < 0.000210 | M Tm < 0.000410 | |
| M Cr < 0.001700 | O Li < 0.000630 | M Rh < 0.000210 | M U < 0.000210 | |
| M Cs < 0.003300 | M Lu < 0.001700 | M Ru < 0.000210 | O V < 0.005200 | |
| M Cu < 0.001300 | O Mg < 0.000861 | O S < 0.268539 | M W < 0.000410 | |
| M Dy < 0.000210 | M Mn < 0.000410 | M Sb < 0.001300 | O Y < 0.005200 | |
| M Er < 0.001300 | M Mo < 0.000410 | M Sc < 0.000410 | M Yb < 0.001300 | |

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 137.33 +2 6 Ba(H₂O)₆+2

Chemical Compatibility - Soluble in HCl, and HNO₃. Avoid H₂SO₄, HF and neutral to basic media. Stable with most metals and inorganic anions forming insoluble silicate, carbonate, hydroxide, oxide, fluoride, sulfate, oxalate, chromate, arsenate, iodate, molybdate, sulfite and tungstate in neutral aqueous media.

Stability - 2-100 ppb levels stable for months in 1% HNO₃ / LDPE container. 1 -10,000 ppm solutions chemically stable for years in 1-3.5% HNO₃ / LDPE container.

Ba Containing Samples (Preparation and Solution) -Metal(is best dissolved in diluted HNO₃); Ores(Carbonate fusion in Pt0 followed by HCl dissolution. If sulfate is present dissolve the fuseate using HCl / tartaric acid to prevent BaSO₄ precipitate); Organic Matrices (dry ash and dissolve in dilute HCl.)

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

| Technique/Line | Estimated D.L. | Order | Interferences (underlined indicates severe) |
|-----------------------|-----------------------|--------------|--|
| ICP-MS 138 amu | 1 ppt | N/A | 122Sn16O, 122Te16O |
| ICP-OES 230.424 nm | 0.004/0.0005 µg/mL | 1 | Mo, Ir, Co |
| ICP-OES 233.527 nm | 0.004/0.0003 µg/mL | 1 | |
| ICP-OES 455.403 nm | 0.002/0.0001 µg/mL | 1 | Zr, U |

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

May 11, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **May 11, 2024**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Manager, Quality Control



Certifying Officer:

Paul Gaines
CEO, Senior Technical Director



1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution
 Catalog Number: CGBE10
 Lot Number: R2-BE692992
 Matrix: 6% (v/v) HNO3
 Value / Analyte(s): 10 000 µg/mL ea:
 Beryllium
 Starting Material: Beryllium Acetate
 Starting Material Lot#: 2281
 Starting Material Purity: 99.9998%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10032 ± 41 µg/mL
Density: 1.128 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1 **10042 ± 67 µg/mL**
 ICP Assay NIST SRM 3105a Lot Number: 090514

Assay Method #2 **10025 ± 51 µg/mL**
 Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char\ i}^2) / (\sum(1/u_{char\ j}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char} = [\sum(w_i)^2 (u_{char\ i})^2]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char\ a})$$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char\ a}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES ($\mu\text{g/mL}$)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 μm .

| | | | | |
|-----------------|-----------------|-----------------|-----------------|-----------------|
| M Ag < 0.001100 | M Eu < 0.000270 | O Na < 0.040962 | M Se < 0.005000 | M Zn < 0.013054 |
| O Al < 0.016205 | O Fe < 0.015754 | M Nb < 0.000270 | O Si < 0.024307 | O Zr < 0.001900 |
| M As < 0.002900 | M Ga < 0.000270 | M Nd < 0.000270 | M Sm < 0.000270 | |
| M Au < 0.000520 | M Gd < 0.000270 | M Ni < 0.003700 | M Sn < 0.000790 | |
| M B < 0.091000 | M Ge < 0.000270 | M Os < 0.000260 | M Sr < 0.000630 | |
| M Ba < 0.002700 | M Hf < 0.000270 | O P < 0.066000 | M Ta < 0.000270 | |
| s Be < 0.000530 | M Hg < 0.000520 | M Pb < 0.000270 | M Tb < 0.000270 | |
| M Bi < 0.072022 | M Ho < 0.000270 | M Pd < 0.000520 | M Te < 0.003700 | |
| O Ca < 0.000790 | M In < 0.000790 | M Pr < 0.000270 | M Th < 0.000270 | |
| M Cd < 0.000270 | M Ir < 0.000260 | M Pt < 0.000270 | O Ti < 0.000400 | |
| M Ce < 0.000270 | O K < 0.045014 | M Rb < 0.000270 | M Tl < 0.000790 | |
| O Co < 0.003200 | M La < 0.000270 | M Re < 0.000270 | M Tm < 0.000270 | |
| O Cr < 0.001800 | O Li < 0.000660 | M Rh < 0.001100 | M U < 0.000270 | |
| M Cs < 0.001440 | M Lu < 0.000270 | M Ru < 0.000260 | M V < 0.000790 | |
| M Cu < 0.002100 | O Mg < 0.016205 | i S < 0.000270 | M W < 0.000530 | |
| M Dy < 0.000270 | M Mn < 0.001215 | M Sb < 0.000270 | M Y < 0.000270 | |
| M Er < 0.000270 | M Mo < 0.000530 | O Sc < 0.000930 | M Yb < 0.000270 | |

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.
- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.
- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 9.01 +2 4 Be(H₂O)₄+2

Chemical Compatibility -Soluble in HCl, HNO₃, H₂SO₄ and HF aqueous matrices. Stable with all metals and inorganic anions.

Stability - 2-100 ppb levels stable for months in 1 % HNO₃ / LDPE container. 1-10,000 ppm solutions chemically stable for years in 5-10 % HNO₃ / LDPE container.

Be Containing Samples (Preparation and Solution) - Meta I(is best dissolved in diluted H₂SO₄); BeO (boiling nitric, hydrochloric, or sulfuric acids or KHSO₄ fusion); Ores (H₂SO₄/HF digestion or carbonate fusion in Pt0); Organic Matrices (sulfuric/peroxide digestion or nitric/sulfuric/perchloric acid decomposition, or dry ash and dissolution according to the BeO procedure above).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

| Technique/Line | Estimated D.L. | Order | Interferences (underlined indicates severe) |
|-----------------------|-----------------------|--------------|--|
| ICP-MS 9 amu | 4 ppt | N/A | |
| ICP-OES 234.861 nm | 0.0003/0.00016 µg/mL | 1 | Fe, Ta, Mo |
| ICP-OES 313.042 nm | 0.0003/0.00009 µg/mL | 1 | V, Ce, U |
| ICP-OES 313.107 nm | 0.0007/0.0005 µg/mL | 1 | Ce, Th, Tm |

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION, PERIOD OF VALIDITY AND REVISION HISTORY

11.1 Certification Issue Date

May 13, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **May 13, 2024**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

11.4 Revision Status

- Revision 1 - Revised on Thursday, Jan 14, 2021 by utruong. Revision was made for the following reason: Modified Section 7 Chemical Form in Solution.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution
 Catalog Number: CGCO10
 Lot Number: R2-CO695285
 Matrix: 3% (v/v) HNO3
 Value / Analyte(s): 10 000 µg/mL ea:
 Cobalt
 Starting Material: Co Metal
 Starting Material Lot#: 2326
 Starting Material Purity: 99.9934%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10012 ± 31 µg/mL
Density: 1.056 g/mL (measured at 20 ± 4 °C)

Assay Information:

- Assay Method #1** **10031 ± 67 µg/mL**
 ICP Assay NIST SRM 3113 Lot Number: 190630

- Assay Method #2** **10019 ± 32 µg/mL**
 EDTA NIST SRM 928 Lot Number: 928

- Assay Method #3** **10000 ± 35 µg/mL**
 Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/CRM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{char i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char i}^2) / (\sum(1/u_{char j}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char} = [\sum((w_i)^2 (u_{char i})^2)]^{1/2}$ where $u_{char i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char a})$$

X_a = mean of Assay Method A with

$u_{char a}$ = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char a}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an UPLA-Filtered Clean Room. An UPLA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

| | | | | | | | | | | | | |
|------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| M Ag | 0.014660 | M Eu | < | 0.000590 | O Na | 0.007534 | M Se | < | 0.019000 | M Zn | 0.003461 | |
| M Al | < | 0.024000 | M Fe | 0.050905 | M Nb | < | 0.000590 | O Si | 0.075340 | M Zr | < | 0.001200 |
| i As | < | | M Ga | < | 0.000590 | M Nd | < | 0.000590 | M Sm | < | 0.000590 | |
| M Au | < | 0.004100 | M Gd | < | 0.000590 | O Ni | 0.427608 | M Sn | < | 0.001200 | | |
| M B | < | 0.031000 | M Ge | < | 0.003000 | M Os | < | 0.000590 | O Sr | < | 0.000260 | |
| M Ba | < | 0.000590 | M Hf | < | 0.000590 | n P | < | | M Ta | < | 0.001200 | |
| O Be | < | 0.001300 | M Hg | < | 0.001800 | M Pb | 0.003257 | M Tb | < | 0.000590 | | |
| M Bi | < | 0.003000 | M Ho | < | 0.000590 | M Pd | < | 0.000590 | M Te | < | 0.005300 | |
| O Ca | 0.010588 | M In | < | 0.001200 | M Pr | < | 0.000590 | M Th | < | 0.000590 | | |
| M Cd | < | 0.004700 | M Ir | < | 0.001200 | M Pt | < | 0.002400 | M Ti | < | 0.014000 | |
| M Ce | < | 0.000590 | O K | 0.008144 | M Rb | < | 0.000590 | M Tl | 0.002647 | | | |
| s Co | < | | M La | < | 0.000590 | M Re | < | 0.000590 | M Tm | < | 0.000590 | |
| M Cr | < | 0.021000 | O Li | < | 0.000130 | M Rh | < | 0.000590 | M U | < | 0.000590 | |
| M Cs | < | 0.002400 | M Lu | < | 0.000590 | M Ru | < | 0.007100 | O V | < | 0.000880 | |
| M Cu | 0.189369 | O Mg | 0.001893 | n S | < | | | M W | < | 0.000590 | | |
| M Dy | < | 0.000590 | M Mn | < | 0.001800 | M Sb | < | 0.003600 | M Y | < | 0.000590 | |
| M Er | < | 0.000590 | M Mo | < | 0.002400 | O Sc | < | 0.001600 | M Yb | < | 0.000590 | |

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 58.93 +2 6 Co(H₂O)₆²⁺

Chemical Compatibility - Stable in HCl, HNO₃, H₂SO₄, HF, H₃PO₄. Avoid basic media. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO₃ / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO₃ / LDPE container.

Co Containing Samples (Preparation and Solution) - Metal (soluble in HNO₃); Oxides (Soluble in HCl); Ores (dissolve in HCl / HNO₃).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

| Technique/Line | Estimated D.L. | Order | Interferences (underlined indicates severe) |
|--------------------|------------------|-------|---|
| ICP-MS 59 amu | 2 ppt | n/a | 42Ca16O1H , 40Ar18O1H , 36Ar23Na, 43Ca16O, 24Mg35Cl |
| ICP-OES 228.616 nm | 0.01/0.001 µg/mL | 1 | |
| ICP-OES 237.862 nm | 0.01/0.002 µg/mL | 1 | W, Re, Al, Ta |
| ICP-OES 238.892 nm | 0.01/0.002 µg/mL | 1 | Fe, W, Ta |

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

August 04, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **August 04, 2024**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution
Catalog Number: CGAG10
Lot Number: S2-AG712977
Matrix: 7% (v/v) HNO₃
Value / Analyte(s): 10 000 µg/mL ea:
Silver
Starting Material: Ag Shot
Starting Material Lot#: 2289
Starting Material Purity: 99.9951%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10051 ± 30 µg/mL
Density: 1.056 g/mL (measured at 20 ± 4 °C)

Assay Information:

| | |
|------------------------|---|
| Assay Method #1 | 10051 ± 52 µg/mL ICP Assay NIST SRM 3151 Lot Number: 160729 |
| Assay Method #2 | 10051 ± 19 µg/mL Volhard NIST SRM 999c Lot Number: 999c |
| Assay Method #3 | 10049 ± 31 µg/mL Calculated NIST SRM Lot Number: See Sec. 4.2 |

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{char i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char i}^2) / (\sum(1/u_{char j}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char} = [\sum(w_i)^2 (u_{char i}^2)]^{1/2}$ where $u_{char i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char a})$$

X_a = mean of Assay Method A with

$u_{char a}$ = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char a}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

| | | | | | | | | | | | | | | |
|---|------|----------|---|------|----------|---|------|----------|---|------|----------|---|------|----------|
| s | Ag < | | M | Eu < | 0.000260 | O | Na | 0.003811 | M | Se < | 0.003900 | O | Zn | 0.048146 |
| M | Al | 0.002688 | O | Fe | 0.006419 | M | Nb < | 0.000260 | O | Si | 0.005215 | M | Zr < | 0.000260 |
| M | As < | 0.001100 | M | Ga < | 0.000260 | M | Nd < | 0.000260 | M | Sm < | 0.000260 | | | |
| M | Au < | 0.000260 | M | Gd < | 0.000260 | O | Ni | 0.001765 | M | Sn | 0.020060 | | | |
| O | B < | 0.004300 | M | Ge < | 0.002300 | M | Os < | 0.001100 | O | Sr < | 0.000110 | | | |
| M | Ba < | 0.000520 | M | Hf < | 0.000260 | O | P < | 0.017000 | M | Ta < | 0.000260 | | | |
| O | Be < | 0.001100 | M | Hg < | 0.000770 | M | Pb < | 0.003600 | M | Tb < | 0.000260 | | | |
| M | Bi | 0.004814 | M | Ho < | 0.000260 | M | Pd | 0.044134 | M | Te < | 0.009000 | | | |
| O | Ca | 0.005215 | M | In | 0.003691 | M | Pr < | 0.000260 | M | Th < | 0.000260 | | | |
| M | Cd < | 0.000260 | M | Ir < | 0.000520 | M | Pt < | 0.001100 | O | Ti < | 0.000440 | | | |
| M | Ce < | 0.002100 | O | K < | 0.008700 | M | Rb < | 0.001100 | M | Tl < | 0.004100 | | | |
| O | Co < | 0.000330 | M | La < | 0.000260 | M | Re < | 0.000260 | M | Tm < | 0.000260 | | | |
| O | Cr < | 0.002500 | O | Li < | 0.000110 | M | Rh < | 0.000520 | M | U < | 0.000260 | | | |
| M | Cs < | 0.002600 | M | Lu < | 0.000260 | M | Ru < | 0.000260 | M | V < | 0.000260 | | | |
| O | Cu | 0.357085 | O | Mg | 0.001203 | O | S < | 0.017000 | M | W < | 0.000260 | | | |
| M | Dy < | 0.000260 | O | Mn < | 0.000220 | M | Sb < | 0.014000 | M | Y < | 0.000260 | | | |
| M | Er < | 0.000260 | M | Mo < | 0.000260 | O | Sc < | 0.000220 | M | Yb < | 0.000260 | | | |

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference

n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.
- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.
- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 107.87 +1 6 Ag(H₂O)₆⁺
Chemical Compatibility - Stable in HNO₃, and HF. Avoid basic media. Ag forms more insoluble salts than any other metal. It also is subject to photochemical reduction to the metal in HCl media although 10 µg/mL solutions in 10% HCl [AgCl_x1-x] are commonly used in the analytical laboratory. The most common solubility problems exist with arsenate, arsenite, bromide, chloride, iodide, carbonate, chromate, cyanide, iodate, oxalate, oxide, sulfate, sulfide, tartrate, and thiocyanate in aqueous media. The addition of nitric acid renders many of these salts soluble.

Stability - 2-100 ppb levels stable for 75+ days when mixed with equivalent levels of all other elements including the precious metals (where chloride is present) when in 1% HNO₃ / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO₃ / LDPE container.

Ag Containing Samples (Preparation and Solution) - Metal (Soluble in HNO₃); Oxides (Soluble in HNO₃); Ores (Digestion with conc. HNO₃).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

| Technique/Line | Estimated D.L. | Order | Interferences (underlined indicates severe) |
|--------------------|--------------------|-------|---|
| ICP-MS 107 amu | 1 ppt | N/A | 91Zr16O |
| ICP-OES 243.779 nm | 0.12/0.01 µg/mL | 1 | Mn, Th, Ni, Rh |
| ICP-OES 328.068 nm | 0.007/0.0007 µg/mL | 1 | Ce, Rh, V |
| ICP-OES 338.289 nm | 0.013/0.001 µg/mL | 1 | Ce, Cr, Th |

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

December 28, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **December 28, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Supervisor, Product Documentation



Certificate Approved By:

Michael Booth
Director, Technical



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution
Catalog Number: CGCR(3)10
Lot Number: S2-CR709784
Matrix: 10% (v/v) HNO3
Value / Analyte(s): 10 000 µg/mL ea:
Chromium
Starting Material: Cr Metal
Starting Material Lot#: 2328
Starting Material Purity: 99.9951%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10027 ± 41 µg/mL
Density: 1.072 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1 **10027 ± 40 µg/mL**
ICP Assay NIST SRM 3112a Lot Number: 170630

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$
 w_i = the weighting factors for each method calculated using the inverse square of the variance:
 $w_i = (1/u_{char\ i}^2) / (\sum(1/(u_{char\ i}^2)))$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2
 u_{char} = $[\sum((w_i)^2 (u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method
 u_{bb} = bottle to bottle homogeneity standard uncertainty
 u_{Its} = long term stability standard uncertainty (storage)
 u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a)(u_{char\ a})$$

X_a = mean of Assay Method A with
 $u_{char\ a}$ = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char\ a}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2
 $u_{char\ a}$ = the errors from characterization
 u_{bb} = bottle to bottle homogeneity standard uncertainty
 u_{Its} = long term stability standard uncertainty (storage)
 u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

| | | | | | | | | | | | | | |
|--------|----------|---|------|----------|---|------|----------|---|------|----------|---|------|----------|
| M Ag < | 0.001700 | M | Eu < | 0.003400 | O | Na | 0.090372 | M | Se < | 0.012000 | O | Zn < | 0.006100 |
| M Al | 0.034916 | O | Fe | 0.246471 | M | Nb < | 0.017000 | n | Si < | | M | Zr < | 0.007800 |
| M As < | 0.028000 | O | Ga < | 0.013000 | M | Nd < | 0.013000 | M | Sm < | 0.006900 | | | |
| M Au < | 0.001700 | M | Gd < | 0.000560 | M | Ni | 0.016020 | M | Sn | 0.006983 | | | |
| O B < | 0.025000 | O | Ge < | 0.014000 | M | Os < | 0.000560 | M | Sr | 0.006367 | | | |
| M Ba < | 0.008900 | M | Hf < | 0.000560 | i | P < | | M | Ta < | 0.000560 | | | |
| M Be < | 0.013000 | M | Hg < | 0.001700 | M | Pb | 0.010064 | M | Tb < | 0.000560 | | | |
| M Bi < | 0.002300 | M | Ho < | 0.000560 | M | Pd < | 0.021000 | M | Te < | 0.010000 | | | |
| O Ca | 0.075995 | M | In < | 0.000560 | M | Pr < | 0.001700 | M | Th < | 0.000560 | | | |
| M Cd < | 0.000560 | M | Ir < | 0.000560 | M | Pt < | 0.001200 | O | Ti | 0.013555 | | | |
| M Ce < | 0.001200 | O | K | 0.043132 | i | Rb < | | M | Tl < | 0.000560 | | | |
| M Co < | 0.002600 | M | La < | 0.001200 | M | Re < | 0.001200 | O | Tm < | 0.013000 | | | |
| s Cr < | | O | Li | 0.000390 | M | Rh < | 0.095000 | M | U < | 0.000560 | | | |
| M Cs < | 0.007800 | M | Lu < | 0.000560 | M | Ru < | 0.087000 | O | V | 0.014993 | | | |
| O Cu | 0.007599 | O | Mg | 0.000883 | i | S < | | M | W < | 0.049000 | | | |
| M Dy < | 0.000560 | M | Mn | 0.008626 | M | Sb < | 0.003400 | M | Y < | 0.001700 | | | |
| M Er < | 0.019000 | M | Mo < | 0.032000 | M | Sc | 0.003080 | M | Yb < | 0.000560 | | | |

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 52.00 +3 6 Cr(H₂O)₆3+

Chemical Compatibility -Stable in HCl, HNO₃, H₂SO₄, HF, H₃PO₄. Avoid basic media. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO₃ / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO₃ / LDPE container.

Cr₃ Containing Samples (Preparation and Solution) -Metal (soluble in HCl); Oxides/Ores (Chrome ore/oxides are very difficult to dissolve. The following procedures [A-D] are commonly used: A. Fusion with KHSO₄ and extraction with hot KCl. The residue fused with Na₂CO₃ and KClO₃, 3:1. B. Fusion with NaKSO₄ and NaF 2:1, C. Fusion with magnesia or lime and sodium or potassium carbonates, 4:1. D. Fusion with Na₂O₂ or NaOH and KNO₃ or NaOH and Na₂O₂. Nickel, iron, copper, or silver crucibles should be used for D. Platinum may be used for A, <, C); Organic Matrices (ash at 4500C followed by one of the fusion methods above or sulfuric/hydrogen peroxide acid digestions may be applicable to non oxide containing samples).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

| Technique/Line | Estimated D.L. | Order | Interferences (underlined indicates severe) |
|-----------------------|-----------------------|--------------|---|
| ICP-MS 52 amu | 40 ppt | N/A | 36S16O, 36Ar16O - The 50Cr, 53Cr, 54Cr lines suffer from many more potential interferences from sulfur, chlorine and argon compounds of oxygen, nitrogen and carbon. |
| ICP-OES 205.552 nm | 0.006/0.0008 µg/mL | 1 | Os |
| ICP-OES 276.654 nm | 0.01/0.001 µg/mL | 1 | Cu, Ta, V |
| ICP-OES 284.325 nm | 0.008/0.0007 µg/mL | 1 | |

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

October 26, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **October 26, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution
Catalog Number: CGNI10
Lot Number: P2-NI686384
Matrix: 3% (v/v) HNO₃
Value / Analyte(s): 10 000 µg/mL ea:
Nickel
Starting Material: Ni Metal
Starting Material Lot#: 2277 and 2282
Starting Material Purity: 99.9992%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 9979 ± 30 µg/mL
Density: 1.038 g/mL (measured at 20 ± 4 °C)

Assay Information:

| | |
|------------------------|--|
| Assay Method #1 | 9971 ± 54 µg/mL ICP Assay NIST SRM 3136 Lot Number: 120619 |
| Assay Method #2 | 9970 ± 32 µg/mL EDTA NIST SRM 928 Lot Number: 928 |
| Assay Method #3 | 9993 ± 33 µg/mL Calculated NIST SRM Lot Number: See Sec. 4.2 |

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char\ i}^2) / (\sum(1/u_{char\ i}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char} = [\sum(w_i)^2 (u_{char\ i})^2]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char\ a})$$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char\ a}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

| | | | | | | | | | | | | |
|------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| M Ag | 0.002606 | M Eu | < | 0.001100 | O Na | 0.004965 | O Se | < | 0.067000 | M Zn | 0.006578 | |
| M Al | < | 0.013000 | O Fe | 0.018618 | M Nb | < | 0.001100 | O Si | 0.010923 | M Zr | < | 0.001100 |
| O As | < | 0.067000 | M Ga | < | 0.001100 | M Nd | < | 0.001100 | M Sm | < | 0.001100 | |
| M Au | < | 0.002100 | M Gd | < | 0.001100 | s Ni | < | | M Sn | < | 0.016000 | |
| M B | < | 0.017000 | M Ge | < | 0.004200 | M Os | 0.002110 | O Sr | < | 0.000940 | | |
| M Ba | < | 0.001100 | M Hf | < | 0.001100 | i P | < | | M Ta | < | 0.001100 | |
| O Be | < | 0.000410 | M Hg | 0.014895 | M Pb | 0.006578 | M Tb | < | 0.001100 | | | |
| M Bi | < | 0.004200 | M Ho | < | 0.001100 | M Pd | < | 0.001100 | M Te | < | 0.015000 | |
| O Ca | 0.003351 | M In | < | 0.001100 | M Pr | < | 0.001100 | M Th | < | 0.001100 | | |
| M Cd | 0.001365 | M Ir | 0.004716 | M Pt | < | 0.001100 | M Ti | < | 0.004200 | | | |
| M Ce | < | 0.001100 | O K | 0.004716 | M Rb | < | 0.001100 | M Tl | < | 0.001100 | | |
| O Co | 0.017377 | M La | < | 0.001100 | M Re | 0.001737 | M Tm | < | 0.001100 | | | |
| O Cr | < | 0.006700 | O Li | < | 0.000140 | M Rh | < | 0.006300 | M U | < | 0.001100 | |
| M Cs | < | 0.007300 | M Lu | < | 0.001100 | M Ru | < | 0.019000 | M V | < | 0.002100 | |
| M Cu | 0.004096 | O Mg | 0.000372 | i S | < | | | M W | < | 0.006300 | | |
| M Dy | < | 0.001100 | O Mn | < | 0.001900 | M Sb | 0.005833 | O Y | < | 0.000540 | | |
| M Er | < | 0.001100 | M Mo | < | 0.008400 | M Sc | < | 0.002100 | M Yb | < | 0.001100 | |

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 58.69 +2 6 Ni(H₂O)₆²⁺

Chemical Compatibility -Stable in HCl, HNO₃, H₂SO₄, HF, H₃PO₄. Avoid basic media. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO₃ / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO₃ / LDPE container.

Ni Containing Samples (Preparation and Solution) -Metal (Soluble in HNO₃); Oxides (Soluble in HCl); Ores (Dissolve in HCl / HNO₃).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

| Technique/Line | Estimated D.L. | Order | Interferences (underlined indicates severe) |
|-----------------------|-----------------------|--------------|--|
| ICP-MS 60 amu | 100 ppt | n/a | 43Ca16O1H , 44Ca16O, 23Na37Cl |
| ICP-OES 221.647 nm | 0.01 / 0.0009 µg/mL | 1 | Si |
| ICP-OES 231.604 nm | 0.02 / 0.002 µg/mL | 1 | Sb, Ta, Co |
| ICP-OES 232.003 nm | 0.02 / 0.006 µg/mL | 1 | Cr, Re, Os, Nb, Ag, Pt, Fe |

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

December 02, 2019

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **December 02, 2023**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Manager, Quality Control



Certifying Officer:

Paul Gaines
CEO, Senior Technical Director



300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution
Catalog Number: CGV10
Lot Number: S2-V711005
Matrix: 7% (v/v) HNO₃
Value / Analyte(s): 10 000 µg/mL ea:
Vanadium
Starting Material: Vanadium Pentoxide
Starting Material Lot#: 1782
Starting Material Purity: 99.9877%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10014 ± 30 µg/mL
Density: 1.104 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1 **10017 ± 42 µg/mL**
ICP Assay NIST SRM 3165 Lot Number: 160906

Assay Method #2 **10013 ± 30 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char\ i}^2) / (\sum(1/u_{char\ j}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char} = [\sum(w_i)^2 (u_{char\ i})^2]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char\ a})$$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char\ a}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

| | | | | |
|-----------------|-----------------|-----------------|-----------------|-----------------|
| M Ag < 0.000110 | M Eu < 0.000110 | O Na 0.120000 | M Se < 0.009400 | M Zn 0.009400 |
| O Al 0.120000 | O Fe 0.460000 | M Nb < 0.001300 | O Si 0.270000 | M Zr < 0.002900 |
| M As < 0.000210 | M Ga < 0.009300 | M Nd < 0.000610 | M Sm < 0.000110 | |
| M Au < 0.004700 | M Gd < 0.000110 | M Ni 0.012000 | M Sn 0.003900 | |
| M B 0.051000 | M Ge < 0.000410 | M Os < 0.000110 | O Sr 0.007100 | |
| M Ba 0.003600 | M Hf < 0.000110 | O P < 0.034000 | M Ta < 0.000110 | |
| O Be < 0.000560 | M Hg < 0.000410 | M Pb 0.001400 | M Tb < 0.000110 | |
| M Bi < 0.000210 | M Ho < 0.000110 | M Pd < 0.000410 | M Te < 0.000110 | |
| O Ca 0.730000 | M In < 0.000110 | M Pr < 0.000110 | M Th < 0.000210 | |
| M Cd < 0.000610 | M Ir < 0.000110 | M Pt < 0.000110 | M Ti 0.017000 | |
| M Ce < 0.000610 | M K 0.052000 | M Rb < 0.000310 | M Tl < 0.000110 | |
| M Co < 0.001300 | M La < 0.000410 | M Re 0.001700 | M Tm < 0.000110 | |
| O Cr 0.170000 | M Li < 0.000810 | M Rh < 0.000110 | M U < 0.000410 | |
| M Cs 0.005600 | M Lu < 0.000110 | M Ru < 0.000110 | s V < | |
| M Cu < 0.001300 | M Mg 0.053000 | i S < | M W 0.002000 | |
| M Dy < 0.000110 | M Mn 0.007900 | M Sb 0.078000 | M Y < 0.000110 | |
| M Er < 0.000110 | M Mo 0.094000 | M Sc < 0.000410 | M Yb < 0.000110 | |

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 50.94 +5 6 H₂V₁₀O₂₈4-

Chemical Compatibility -Soluble in HCl, HNO₃, H₂SO₄, HF, H₃PO₄ and strong basic media. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO₃ / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO₃ / LDPE container.

V Containing Samples (Preparation and Solution) -Metal (Fusion with NaOH or KOH in NiO or Na₂CO₃ / KNO₃); Oxides (V₂O₃ - use HCl, V₂O₄ - use HCl or HNO₃, V₂O₅ - use concentrated acids); Ores (Na₂CO₃ / KNO₃ in PtO caution - nitrates attack PtO followed by water extraction of fuseate); Organic Matrices (Ash at 450 EC followed by dissolving according to V₂O₅ above) .

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

| <u>Technique/Line</u> | <u>Estimated D.L.</u> | <u>Order</u> | <u>Interferences</u> (underlined indicates severe) |
|-----------------------|-----------------------|--------------|--|
| ICP-MS 51 amu | 4 ppt | N/A | 34S16O1H, 35Cl16O, 38Ar13C, 36Ar15N, 36Ar14N1H, 37Cl14N,36S15N, 33S18O, 34S17O, 102Ru+2,02Pd+2 |
| ICP-OES 290.882 nm | 0.008 / 0.0008 µg/mL | 1 | Hf, Nb |
| ICP-OES 292.402 nm | 0.006 / 0.001 µg/mL | 1 | Th |
| ICP-OES 309.311 nm | 0.005 / 0.001 µg/mL | 1 | Mg, U, Th |

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

December 28, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **December 28, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity


- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



300 Technology Drive
Christiansburg, VA 24073 USA
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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution
Catalog Number: CGAL10
Lot Number: T2-AL716102
Matrix: 7% (v/v) HNO₃
Value / Analyte(s): 10 000 µg/mL ea:
Aluminum
Starting Material: Aluminum Nitrate Nonahydrate
Starting Material Lot#: 2460
Starting Material Purity: 99.9938%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10049 ± 31 µg/mL
Density: 1.087 g/mL (measured at 20 ± 4 °C)

Assay Information:

| | |
|------------------------|---|
| Assay Method #1 | 10059 ± 40 µg/mL ICP Assay NIST SRM 3101a Lot Number: 140903 |
| Assay Method #2 | 10044 ± 26 µg/mL EDTA NIST SRM 928 Lot Number: 928 |
| Assay Method #3 | 10049 ± 35 µg/mL Calculated NIST SRM Lot Number: See Sec. 4.2 |

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char\ i}^2) / (\sum(1/u_{char\ j}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char} = [\sum(w_i)^2 (u_{char\ i})^2]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char\ a})$$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char\ a}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

| | | | | |
|-----------------|-----------------|-----------------|-----------------|-----------------|
| M Ag < 0.002100 | M Eu < 0.002100 | O Na < 0.352819 | M Se < 0.005200 | M Zn < 0.006018 |
| s Al < 0.002100 | O Fe < 0.074714 | M Nb < 0.000520 | O Si < 0.017848 | O Zr < 0.004358 |
| M As < 0.008716 | O Ga < 0.112072 | M Nd < 0.000520 | M Sm < 0.000520 | |
| M Au < 0.008400 | M Gd < 0.001100 | O Ni < 0.006000 | M Sn < 0.000747 | |
| O B < 0.014000 | M Ge < 0.005200 | M Os < 0.000650 | O Sr < 0.000518 | |
| O Ba < 0.012867 | M Hf < 0.004100 | n P < 0.000520 | M Ta < 0.000520 | |
| O Be < 0.000270 | M Hg < 0.002000 | M Pb < 0.002282 | M Tb < 0.000520 | |
| M Bi < 0.001930 | M Ho < 0.000520 | M Pd < 0.000520 | M Te < 0.001100 | |
| O Ca < 0.076790 | M In < 0.002100 | M Pr < 0.000520 | M Th < 0.000520 | |
| M Cd < 0.000520 | M Ir < 0.000650 | M Pt < 0.000520 | O Ti < 0.001930 | |
| M Ce < 0.001100 | O K < 0.043583 | M Rb < 0.000520 | M Tl < 0.000520 | |
| O Co < 0.005400 | M La < 0.002100 | M Re < 0.000520 | M Tm < 0.000520 | |
| O Cr < 0.006018 | O Li < 0.000112 | M Rh < 0.000520 | M U < 0.000520 | |
| M Cs < 0.000643 | M Lu < 0.000520 | M Ru < 0.002000 | M V < 0.001286 | |
| O Cu < 0.008300 | O Mg < 0.068488 | i S < 0.000520 | M W < 0.009800 | |
| M Dy < 0.002100 | O Mn < 0.000913 | M Sb < 0.003100 | M Y < 0.001100 | |
| M Er < 0.000520 | M Mo < 0.005396 | O Sc < 0.000950 | M Yb < 0.000520 | |

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.
- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.
- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 26.98 +3 6 Al(H₂O)₆+3

Chemical Compatibility -Soluble in HCl, HNO₃, vF and v₂SO₄. Avoid neutral media. Soluble in strongly basic NaOH forming the Al(OH)₄(H₂O)₂⁻ species. Stable with most metals and inorganic anions. The phosphate is insoluble in water and only slightly soluble in acid.

Stability - 2-100 ppb levels stable for months in 1% HNO₃ / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO₃ / LDPE container.

Al Containing Samples (Preparation and Solution) -Metal (Best dissolved in HCl / HNO₃); a- Al₂O₃ (Na₂CO₃ fusion in PtO);

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

| Technique/Line | Estimated D.L. | Order | Interferences (underlined indicates severe) |
|--------------------|------------------|-------|--|
| ICP-MS 27 amu | 30 ppt | N/A | 12C15N, 13C14N, 1H12C14N, 11B16O, 54Cr2+, 54Fe2+ |
| ICP-OES 167.078 nm | 0.1/0.009 µg/mL | 1 | Fe |
| ICP-OES 394.401 nm | 0.05/0.006 µg/mL | 1 | U, Ce |
| ICP-OES 396.152 nm | 0.03/0.006 µg/mL | 1 | Mo, Zr, Ce |

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

March 22, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **March 22, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution
Catalog Number: CGK10
Lot Number: S2-K711973
Matrix: 2% (v/v) HNO₃
Value / Analyte(s): 10 000 µg/mL ea:
Potassium
Starting Material: KNO₃
Starting Material Lot#: 2313
Starting Material Purity: 99.9971%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 9992 ± 30 µg/mL
Density: 1.024 g/mL (measured at 20 ± 4 °C)

Assay Information:

| | |
|------------------------|---|
| Assay Method #1 | 9987 ± 24 µg/mL Gravimetric NIST SRM Lot Number: See Sec. 4.2 |
| Assay Method #2 | 10004 ± 84 µg/mL ICP Assay NIST SRM 3141a Lot Number: 140813 |
| Assay Method #3 | 10007 ± 45 µg/mL Calculated NIST SRM Lot Number: See Sec. 4.2 |

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{char i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char i}^2) / (\sum(1/u_{char j}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char} = [\sum(w_i)^2 (u_{char i}^2)]^{1/2}$ where $u_{char i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char a})$$

X_a = mean of Assay Method A with

$u_{char a}$ = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char a}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES ($\mu\text{g/mL}$)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 μm .

| | | | | |
|-----------------|-----------------|-----------------|-----------------|-----------------|
| M Ag < 0.001400 | M Eu < 0.000660 | O Na < 0.246220 | M Se < 0.007900 | O Zn < 0.018056 |
| O Al < 0.001592 | O Fe < 0.005909 | M Nb < 0.000660 | O Si < 0.011490 | O Zr < 0.001600 |
| M As < 0.005300 | M Ga < 0.000660 | M Nd < 0.000660 | M Sm < 0.000660 | |
| M Au < 0.002000 | M Gd < 0.000660 | O Ni < 0.004900 | M Sn < 0.000660 | |
| O B < 0.005600 | M Ge < 0.002000 | M Os < 0.003300 | O Sr < 0.000055 | |
| O Ba < 0.000860 | M Hf < 0.000660 | O P < 0.032000 | M Ta < 0.000660 | |
| O Be < 0.000082 | M Hg < 0.002000 | M Pb < 0.002300 | M Tb < 0.000660 | |
| M Bi < 0.006600 | M Ho < 0.000660 | M Pd < 0.000660 | M Te < 0.017000 | |
| O Ca < 0.031187 | M In < 0.000660 | M Pr < 0.000660 | M Th < 0.000660 | |
| O Cd < 0.000450 | M Ir < 0.000660 | M Pt < 0.002700 | M Ti < 0.000660 | |
| M Ce < 0.000660 | s K < | M Rb < 0.476026 | M Tl < 0.000660 | |
| O Co < 0.000780 | M La < 0.000660 | M Re < 0.000660 | M Tm < 0.000660 | |
| O Cr < 0.000541 | O Li < 0.000084 | M Rh < 0.000660 | M U < 0.000660 | |
| M Cs < 0.000660 | M Lu < 0.000660 | M Ru < 0.000660 | O V < 0.001100 | |
| M Cu < 0.002700 | O Mg < 0.006237 | O S < 0.027905 | M W < 0.000660 | |
| M Dy < 0.000660 | O Mn < 0.000476 | M Sb < 0.000660 | M Y < 0.000660 | |
| M Er < 0.000660 | M Mo < 0.000660 | O Sc < 0.000340 | O Yb < 0.000270 | |

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.
- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.
- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 39.10 +1 (6) K+(aq)

Chemical Compatibility -Soluble in HCl, HNO₃, H₂SO₄ and HF aqueous matrices. Avoid use of HClO₄ due to insolubility of the perchlorate. Stable with all metals and inorganic anions except ClO₄⁻.

Stability - 2-100 ppb levels stable for months in 1% HNO₃ / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO₃ / LDPE container.

K Containing Samples (Preparation and Solution) - Metal (Dissolves very rapidly in water); Ores (Sodium carbonate fusion in Pt0 followed by HCl dissolution-blank levels of K in sodium carbonate critical); Organic Matrices (Sulfuric/peroxide digestion)

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

| Technique/Line | Estimated D.L. | Order | Interferences (underlined indicates severe) |
|-----------------------|-----------------------|--------------|--|
| ICP-MS 39 amu | 10 ppt | n/a | 38ArH, 23Na16O, 78Se |
| ICP-OES 404.721 nm | 1.1 / 0.05 µg/mL | 1 | U, Ce |
| ICP-OES 766.490 nm | 0.4 / 0.001 µg/mL | 1 | 2nd order radiation from R.E.s on some optical designs |
| ICP-OES 771.531 nm | 1.0 / 0.03 µg/mL | 1 | 2nd order radiation from R.E.s on some optical designs |

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

December 10, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **December 10, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity


- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution
Catalog Number: CGMG10
Lot Number: S2-MG704239
Matrix: 2% (v/v) HNO₃
Value / Analyte(s): 10 000 µg/mL ea:
Magnesium
Starting Material: Magnesium Metal
Starting Material Lot#: 2168
Starting Material Purity: 99.9984%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10053 ± 30 µg/mL
Density: 1.053 g/mL (measured at 20 ± 4 °C)

Assay Information:

| | |
|------------------------|---|
| Assay Method #1 | 10022 ± 62 µg/mL ICP Assay NIST SRM 3131a Lot Number: 140110 |
| Assay Method #2 | 10078 ± 26 µg/mL EDTA NIST SRM 928 Lot Number: 928 |
| Assay Method #3 | 10033 ± 26 µg/mL Calculated NIST SRM Lot Number: See Sec. 4.2 |

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{char i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char i}^2) / (\sum(1/u_{char i}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char} = [\sum(w_i)^2 (u_{char i}^2)]^{1/2}$ where $u_{char i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char a})$$

X_a = mean of Assay Method A with

$u_{char a}$ = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char a}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

| | | | | | | | | | | |
|--------|----------|---|------|----------|--------|----------|--------|----------|--------|----------|
| O Ag | 0.002106 | M | Eu < | 0.000910 | O Na | 0.071075 | O Se < | 0.048000 | O Zn | 0.003299 |
| M Al | 0.003553 | M | Fe | 0.002538 | M Nb < | 0.000460 | O Si < | 0.032000 | O Zr < | 0.002700 |
| M As < | 0.001400 | M | Ga < | 0.000460 | M Nd < | 0.000910 | M Sm < | 0.000460 | | |
| M Au < | 0.001400 | M | Gd < | 0.000460 | O Ni < | 0.001600 | M Sn < | 0.002300 | | |
| O B | 0.006853 | M | Ge < | 0.001400 | M Os < | 0.000460 | O Sr | 0.000279 | | |
| O Ba | 0.000964 | M | Hf < | 0.000460 | O P | 0.015230 | M Ta < | 0.000460 | | |
| O Be < | 0.000120 | M | Hg < | 0.000460 | M Pb < | 0.000460 | M Tb < | 0.000460 | | |
| M Bi < | 0.000460 | M | Ho < | 0.000460 | M Pd < | 0.003200 | M Te < | 0.007300 | | |
| O Ca | 0.053306 | M | In < | 0.000460 | M Pr < | 0.000460 | M Th < | 0.000460 | | |
| O Cd < | 0.000360 | M | Ir < | 0.000460 | M Pt < | 0.001900 | O Ti < | 0.001700 | | |
| M Ce < | 0.002300 | M | K | 0.048229 | M Rb | 0.002411 | M Tl | 0.003046 | | |
| M Co < | 0.000910 | M | La < | 0.002800 | M Re < | 0.000460 | M Tm < | 0.000460 | | |
| M Cr < | 0.002300 | O | Li | 0.027922 | M Rh < | 0.000460 | M U < | 0.000460 | | |
| M Cs | 0.001040 | M | Lu < | 0.000460 | M Ru < | 0.000460 | M V < | 0.000460 | | |
| O Cu < | 0.003000 | s | Mg < | | O S < | 0.190000 | M W < | 0.000460 | | |
| M Dy < | 0.000460 | O | Mn | 0.015230 | M Sb | 0.020814 | O Y < | 0.000720 | | |
| M Er < | 0.000460 | M | Mo < | 0.000910 | O Sc < | 0.000480 | M Yb < | 0.000460 | | |

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.
- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.
- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 24.31 +2 6 Mg(H₂O)₆+2

Chemical Compatibility -Soluble in HCl, HNO₃, and H₂SO₄ avoid HF, H₃PO₄ and neutral to basic media. Stable with most metals and inorganic anions forming insoluble silicates, carbonates, hydroxides, oxides, and tungstates in neutral and slightly acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO₃ / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-10% HNO₃ / LDPE container.

Mg Containing Samples (Preparation and Solution) -Metal (Best dissolved in diluted HNO₃); Oxide (Readily soluble in above compatible aqueous acidic solutions); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (Sulfuric / peroxide digestion or nitric / sulfuric / perchloric acid decomposition, or dry ash and dissolution in dilute HCl).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

| Technique/Line | Estimated D.L. | Order | Interferences (underlined indicates severe) |
|-----------------------|------------------------|--------------|--|
| ICP-MS 24 amu | 42 ppt | n/a | 7Li17O, 48Ti+2 , 48Ca+2 |
| ICP-OES 279.553 nm | 0.0002 / 0.00003 µg/mL | 1 | Th |
| ICP-OES 280.270 nm | 0.0003 / 0.00005 µg/mL | 1 | U, V |
| ICP-OES 285.213 nm | 0.002 / 0.00003 µg/mL | 1 | U, Hf, Cr, Zr |

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

April 23, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **April 23, 2025**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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Christiansburg, VA 24073 USA
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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution
Catalog Number: CGCA10
Lot Number: T2-CA716103
Matrix: 2% (v/v) HNO₃
Value / Analyte(s): 10 000 µg/mL ea:
Calcium
Starting Material: CaCO₃
Starting Material Lot#: 2472
Starting Material Purity: 99.9950%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10005 ± 30 µg/mL
Density: 1.039 g/mL (measured at 20 ± 4 °C)

Assay Information:

| | |
|------------------------|---|
| Assay Method #1 | 10005 ± 45 µg/mL ICP Assay NIST SRM 3109a Lot Number: 130213 |
| Assay Method #2 | 10005 ± 25 µg/mL EDTA NIST SRM 928 Lot Number: 928 |
| Assay Method #3 | 10005 ± 31 µg/mL Calculated NIST SRM Lot Number: See Sec. 4.2 |

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{char i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char i}^2) / (\sum(1/u_{char j}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char} = [\sum(w_i)^2 (u_{char i}^2)]^{1/2}$ where $u_{char i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char a})$$

X_a = mean of Assay Method A with

$u_{char a}$ = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char a}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES ($\mu\text{g/mL}$)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 μm .

| | | | | |
|-----------------|-----------------|-----------------|-----------------|-----------------|
| M Ag < 0.001200 | M Eu < 0.001200 | O Na < 0.006112 | M Se < 0.024000 | M Zn < 0.005362 |
| M Al < 0.065419 | O Fe < 0.009115 | M Nb < 0.001200 | O Si < 0.139417 | O Zr < 0.006700 |
| O As < 0.013000 | M Ga < 0.015000 | M Nd < 0.020000 | M Sm < 0.001200 | |
| M Au < 0.017000 | M Gd < 0.004800 | O Ni < 0.000793 | M Sn < 0.003600 | |
| O B < 0.001179 | M Ge < 0.003600 | M Os < 0.001200 | M Sr < 0.081505 | |
| O Ba < 0.002788 | M Hf < 0.001200 | O P < 0.041000 | M Ta < 0.001200 | |
| O Be < 0.000410 | M Hg < 0.004800 | M Pb < 0.001608 | M Tb < 0.001200 | |
| M Bi < 0.001608 | M Ho < 0.001200 | M Pd < 0.001200 | M Te < 0.003600 | |
| s Ca < | M In < 0.001200 | M Pr < 0.000257 | M Th < 0.001200 | |
| O Cd < 0.001300 | M Ir < 0.001200 | M Pt < 0.003600 | O Ti < 0.001900 | |
| M Ce < 0.001029 | O K < 0.009759 | M Rb < 0.001200 | M Tl < 0.001200 | |
| O Co < 0.000418 | M La < 0.001823 | M Re < 0.001200 | M Tm < 0.001200 | |
| O Cr < 0.003324 | O Li < 0.007300 | M Rh < 0.001200 | M U < 0.002144 | |
| M Cs < 0.007399 | M Lu < 0.000128 | M Ru < 0.001200 | M V < 0.001286 | |
| O Cu < 0.011000 | M Mg < 1.286934 | O S < 0.055767 | O W < 0.024000 | |
| M Dy < 0.002400 | O Mn < 0.004611 | M Sb < 0.009600 | O Y < 0.000536 | |
| M Er < 0.002400 | M Mo < 0.003539 | O Sc < 0.001400 | M Yb < 0.001200 | |

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.
- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.
- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 40.08 +2 6 Ca(H₂O)₆+2
Chemical Compatibility - Soluble in HCl and HNO₃. Avoid H₂SO₄, vF, v3PO₄ and neutral to basic media. Stable with most metals and inorganic anions forming insoluble silicate, carbonate, hydroxide, oxide, fluoride, sulfate, oxalate, chromate, arsenate, and tungstate in neutral aqueous media.

Stability - 2-100 ppb levels stable for months in 1% HNO₃ / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-10% HNO₃ / LDPE container.

Ca Containing Samples)Preparation and Solution -Metal (best dissolved in diluted HNO₃); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (dry ash and dissolution in dilute HCl. Do not heat when dissolving to avoid precipitation of SiO₂). The oxide, hydroxide, carbonate, phosphate, and fluoride of calcium are soluble in % levels of HCl or HNO₃. The sulfates (gypsum, anhydrite, etc.), certain silicates, and complex compounds require fusion with Na₂CO₃ followed by HCl / water dissolution. Note that contamination is a very real problem when analyzing for trace levels.

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

| Technique/Line | Estimated D.L. | Order | Interferences (underlined indicates severe) |
|-----------------------|------------------------|--------------|--|
| ICP-MS 44 amu | 1200 ppt | n/a | 16O212C, 28Si16O, 88Sr |
| ICP-OES 393.366 nm | 0.0002 / 0.00004 µg/mL | 1 | U, Ce |
| ICP-OES 396.847 nm | 0.0005 / 0.00006 µg/mL | 1 | Th |
| ICP-OES 422.673 nm | 0.01 / 0.001 µg/mL | 1 | Ge |

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

March 14, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **March 14, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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1.0 ACCREDITATION / REGISTRATION

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2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution
Catalog Number: CGNA10
Lot Number: T2-NA717221
Matrix: 2% (v/v) HNO₃
Value / Analyte(s): 10 000 µg/mL ea:
Sodium
Starting Material: Na₂CO₃
Starting Material Lot#: 2358 and 2453
Starting Material Purity: 99.9977%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 9977 ± 30 µg/mL
Density: 1.033 g/mL (measured at 20 ± 4 °C)

Assay Information:

| | |
|------------------------|---|
| Assay Method #1 | 9974 ± 18 µg/mL Gravimetric NIST SRM Lot Number: See Sec. 4.2 |
| Assay Method #2 | 9977 ± 34 µg/mL ICP Assay NIST SRM 3152a Lot Number: 200413 |
| Assay Method #3 | 9987 ± 31 µg/mL Calculated NIST SRM Lot Number: See Sec. 4.2 |

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char\ i}^2) / (\sum(1/u_{char\ j}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char} = [\sum(w_i)^2 (u_{char\ i})^2]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char\ a})$$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char\ a}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

| | | | | |
|-----------------|-----------------|-----------------|-----------------|-----------------|
| M Ag < 0.000930 | M Eu < 0.000930 | s Na < | M Se < 0.003800 | O Zn < 0.000138 |
| M Al < 0.004409 | O Fe < 0.002393 | M Nb < 0.000930 | O Si < 0.056696 | O Zr < 0.003200 |
| O As < 0.023000 | M Ga < 0.000930 | M Nd < 0.000930 | M Sm < 0.000930 | |
| O Au < 0.004100 | M Gd < 0.000930 | O Ni < 0.003000 | M Sn < 0.002800 | |
| O B < 0.001385 | M Ge < 0.004700 | M Os < 0.000930 | O Sr < 0.000251 | |
| M Ba < 0.004031 | M Hf < 0.000930 | O P < 0.010205 | M Ta < 0.000930 | |
| O Be < 0.000130 | M Hg < 0.000930 | M Pb < 0.000930 | M Tb < 0.000930 | |
| M Bi < 0.000930 | M Ho < 0.000930 | M Pd < 0.000930 | M Te < 0.001900 | |
| O Ca < 0.176388 | M In < 0.000930 | M Pr < 0.000930 | M Th < 0.000352 | |
| O Cd < 0.000860 | M Ir < 0.000930 | M Pt < 0.000930 | O Ti < 0.000592 | |
| M Ce < 0.001900 | O K < 0.302380 | M Rb < 0.000930 | M Tl < 0.000930 | |
| O Co < 0.001800 | O La < 0.002100 | M Re < 0.000930 | M Tm < 0.000930 | |
| M Cr < 0.002800 | O Li < 0.000031 | M Rh < 0.000930 | M U < 0.000930 | |
| M Cs < 0.000930 | M Lu < 0.000930 | M Ru < 0.001900 | O V < 0.001600 | |
| O Cu < 0.003900 | O Mg < 0.026458 | O S < 0.040317 | O W < 0.028000 | |
| M Dy < 0.000930 | O Mn < 0.000740 | M Sb < 0.000930 | O Y < 0.000860 | |
| M Er < 0.000930 | O Mo < 0.003600 | O Sc < 0.000610 | O Yb < 0.000250 | |

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.
- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.
- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 22.99 +1 (6) Na+(aq) largely ionic in nature

Chemical Compatibility -Soluble in HCl, HNO₃, H₂SO₄ and HF aqueous matrices. Stable with all metals and inorganic anions.

Stability - 2-100 ppb levels stable for months in 1% HNO₃ / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO₃ / LDPE container.

Na Containing Samples (Preparation and Solution) - Metal (Dissolves very rapidly in water); Ores (Lithium carbonate fusion in graphite crucible followed by HCl dissolution - blank levels of Na in lithium carbonate critical); Organic Matrices (Sulfuric / peroxide digestion or nitric/sulfuric/perchloric acid decomposition).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

| Technique/Line | Estimated D.L. | Order | Interferences (underlined indicates severe) |
|-----------------------|-----------------------|--------------|--|
| ICP-MS 23 amu | 310 ppt | n/a | 46Ti+2 , 46Ca+2 |
| ICP-OES 330.237 nm | 2.0 / 0.09 µg/mL | 1 | Pd, Zn |
| ICP-OES 588.995 nm | 0.03 / 0.006 µg/mL | 1 | 2nd order radiation from R.E.s on some optical designs |
| ICP-OES 589.595 nm | 0.07 / 0.00009 µg/mL | 1 | 2nd order radiation from R.E.s on some optical designs |

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

April 20, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **April 20, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution
Catalog Number: CGU1
Lot Number: S2-U707914
Matrix: 2% (v/v) HNO₃
Value / Analyte(s): 1 000 µg/mL ea:
Uranium
Starting Material: Uranyl Nitrate Hexahydrate
Starting Material Lot#: P2-2322
Starting Material Purity: 99.9997%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 999 ± 5 µg/mL
Density: 1.010 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1 **998 ± 5 µg/mL**
ICP Assay NIST SRM 3164 Lot Number: 080521

Assay Method #2 **1001 ± 6 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{char i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char i}^2) / (\sum(1/u_{char i}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char} = [\sum(w_i)^2 (u_{char i})^2]^{1/2}$ where $u_{char i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char a})$$

X_a = mean of Assay Method A with

$u_{char a}$ = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char a}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Certified Abundance:

IV's Certified Abundance

| Isotope | Atom % |
|--------------|-------------|
| Uranium 238U | 99.8 ± 0.1 |
| Uranium 235U | 0.19 ± 0.05 |

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

| | | | | |
|-----------------|-----------------|-----------------|-----------------|-----------------|
| M Ag < 0.000270 | M Eu < 0.000270 | M Na < 0.011000 | M Se < 0.009300 | M Zn < 0.002358 |
| M Al < 0.011000 | M Fe < 0.003222 | M Nb < 0.000270 | M Si < 0.160000 | M Zr < 0.001100 |
| M As < 0.002400 | M Ga < 0.000270 | M Nd < 0.000270 | M Sm < 0.000270 | |
| M Au < 0.000270 | M Gd < 0.000270 | M Ni < 0.020000 | M Sn < 0.011000 | |
| M B < 0.000270 | M Ge < 0.000800 | M Os < 0.001900 | M Sr < 0.000270 | |
| M Ba < 0.003800 | M Hf < 0.000270 | i P < | M Ta < 0.000270 | |
| M Be < 0.000270 | M Hg < 0.000540 | M Pb < 0.002200 | M Tb < 0.000270 | |
| M Bi < 0.000270 | M Ho < 0.000270 | M Pd < 0.000540 | M Te < 0.003800 | |
| M Ca < 0.140000 | M In < 0.000270 | M Pr < 0.000270 | M Th < 0.000129 | |
| M Cd < 0.000270 | M Ir < 0.000270 | M Pt < 0.000270 | M Ti < 0.002700 | |
| M Ce < 0.000540 | O K < 0.250000 | M Rb < 0.000800 | M Tl < 0.000270 | |
| M Co < 0.000800 | M La < 0.000117 | M Re < 0.064000 | M Tm < 0.000270 | |
| M Cr < 0.000943 | M Li < 0.003000 | M Rh < 0.000270 | s U < | |
| M Cs < 0.000106 | M Lu < 0.000270 | M Ru < 0.000540 | M V < 0.000540 | |
| M Cu < 0.001100 | M Mg < 0.003000 | i S < | M W < 0.000540 | |
| M Dy < 0.000270 | M Mn < 0.006900 | M Sb < 0.000270 | M Y < 0.000270 | |
| M Er < 0.000270 | M Mo < 0.006400 | M Sc < 0.000540 | M Yb < 0.000270 | |

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 238.03 +6 8 UO₂²⁺(uranyl)

Chemical Compatibility - Soluble in HCl and HNO₃. Avoid H₃PO₄. H₂SO₄ and HF matrices should not be a problem depending upon [U]. Although the UO₂²⁺ ion is distinctly basic, any U+4 will precipitate in basic media. UO₂²⁺salts are generally soluble in water and UO₂²⁺ is stable with most metals and inorganic anions. The uranyl phosphate is insoluble in water. UF₄ and UF₆ are water soluble.

Stability - 2-100 ppb levels stable for months in 1% HNO₃ / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO₃ / LDPE container.

U Containing Samples (Preparation and Solution) -Metal (Dissolves rapidly in HCl and HNO₃); Oxide (Soluble in HNO₃); Ores (Digest for 1-2 hours with 1 gram of ore to 30 mL 1:1 HNO₃. Silica insolubles are removed by filtration after bringing the sample to fumes with conc. H₂SO₄.)

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

| Technique/Line | Estimated D.L. | Order | Interferences (underlined indicates severe) |
|--------------------|------------------|-------|--|
| ICP-MS 238 amu | 2 ppt | N/A | 206Pb16O2 |
| ICP-OES 263.553 nm | 0.3 / 0.01 µg/mL | 1 | Ce, Ir, Th, Rh, W, Zr, Ta, Ti, V, Hf, Fe, Re, Ru |
| ICP-OES 367.007 nm | 0.3 / 0.02 µg/mL | 1 | Th, Ce |
| ICP-OES 385.958 nm | 0.3 / 0.01 µg/mL | 1 | Th, Fe |

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

August 28, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **August 28, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code: Multi Analyte Custom Grade Solution
Catalog Number: AR-ICVMS-2
Lot Number: T2-MEB719895
Matrix: 3% (v/v) HNO3
tr. HF
Value / Analyte(s): 2.5 µg/mL ea:
Molybdenum, Antimony

3.0 CERTIFIED VALUES AND UNCERTAINTIES

| ANALYTE | CERTIFIED VALUE | ANALYTE | CERTIFIED VALUE |
|--------------|---------------------|----------------|---------------------|
| Antimony, Sb | 2.499 ± 0.015 µg/mL | Molybdenum, Mo | 2.500 ± 0.017 µg/mL |

Density: 1.014 g/mL (measured at 20 ± 4 °C)

Assay Information:

| ANALYTE | METHOD | NIST SRM# | SRM LOT# |
|---------|------------|-----------|--------------|
| Mo | ICP Assay | 3134 | 130418 |
| Mo | Calculated | | See Sec. 4.2 |
| Sb | ICP Assay | 3102a | 140911 |
| Sb | Calculated | | See Sec. 4.2 |

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{char i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char i}^2) / (\sum(1/u_{char i}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char} = [\sum((w_i)^2 (u_{char i})^2)]^{1/2}$ where $u_{char i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char a})$$

X_a = mean of Assay Method A with

$u_{char a}$ = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char a}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

June 06, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **June 06, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

| | | |
|---------------------|-------------------------------------|------------|
| Product Code: | Multi Analyte Custom Grade Solution | |
| Catalog Number: | AR-ICVMS-3 | |
| Lot Number: | T2-MEB719896 | |
| Matrix: | 7% (v/v) HNO3 | |
| Value / Analyte(s): | 250 µg/mL ea: | |
| | Aluminum, | Calcium, |
| | Iron, | Potassium, |
| | Magnesium, | Sodium, |
| | 4 µg/mL ea: | |
| | Selenium, | |
| | 2.5 µg/mL ea: | |
| | Thorium, | Thallium, |
| | Uranium, | Vanadium, |
| | Zinc, | Manganese, |
| | Cadmium, | Cobalt, |
| | Chromium, | Copper, |
| | Arsenic, | Barium, |
| | Beryllium, | Nickel, |
| | Lead, | Silver |

3.0 CERTIFIED VALUES AND UNCERTAINTIES

| ANALYTE | CERTIFIED VALUE | ANALYTE | CERTIFIED VALUE |
|---------------|---------------------|---------------|---------------------|
| Aluminum, Al | 250.0 ± 0.9 µg/mL | Arsenic, As | 2.500 ± 0.018 µg/mL |
| Barium, Ba | 2.501 ± 0.013 µg/mL | Beryllium, Be | 2.501 ± 0.015 µg/mL |
| Cadmium, Cd | 2.501 ± 0.013 µg/mL | Calcium, Ca | 250.0 ± 1.3 µg/mL |
| Chromium, Cr | 2.500 ± 0.015 µg/mL | Cobalt, Co | 2.500 ± 0.014 µg/mL |
| Copper, Cu | 2.500 ± 0.014 µg/mL | Iron, Fe | 250.0 ± 1.0 µg/mL |
| Lead, Pb | 2.500 ± 0.013 µg/mL | Magnesium, Mg | 250.0 ± 1.3 µg/mL |
| Manganese, Mn | 2.500 ± 0.014 µg/mL | Nickel, Ni | 2.500 ± 0.014 µg/mL |
| Potassium, K | 250.0 ± 1.2 µg/mL | Selenium, Se | 4.002 ± 0.024 µg/mL |
| Silver, Ag | 2.501 ± 0.017 µg/mL | Sodium, Na | 250.0 ± 1.2 µg/mL |
| Thallium, Tl | 2.500 ± 0.017 µg/mL | Thorium, Th | 2.499 ± 0.013 µg/mL |
| Uranium, U | 2.501 ± 0.015 µg/mL | Vanadium, V | 2.500 ± 0.014 µg/mL |
| Zinc, Zn | 2.500 ± 0.014 µg/mL | | |

Density: 1.042 g/mL (measured at 20 ± 4 °C)

Assay Information:

| ANALYTE | METHOD | NIST SRM# | SRM LOT# |
|---------|-------------|-----------|--------------|
| Ag | ICP Assay | 3151 | 160729 |
| Ag | Volhard | 999c | 999c |
| Ag | Calculated | | See Sec. 4.2 |
| Al | ICP Assay | 3101a | 140903 |
| Al | EDTA | 928 | 928 |
| As | ICP Assay | 3103a | 100818 |
| Ba | ICP Assay | 3104a | 140909 |
| Ba | Calculated | | See Sec. 4.2 |
| Ba | Gravimetric | | See Sec. 4.2 |
| Be | ICP Assay | 3105a | 090514 |
| Be | Calculated | | See Sec. 4.2 |
| Ca | ICP Assay | 3109a | 130213 |
| Ca | EDTA | 928 | 928 |
| Cd | ICP Assay | 3108 | 130116 |
| Cd | EDTA | 928 | 928 |
| Cd | Calculated | | See Sec. 4.2 |
| Co | ICP Assay | 3113 | 190630 |
| Co | EDTA | 928 | 928 |
| Co | Calculated | | See Sec. 4.2 |
| Cr | ICP Assay | 3112a | 170630 |
| Cr | Calculated | | See Sec. 4.2 |
| Cu | ICP Assay | 3114 | 121207 |
| Cu | EDTA | 928 | 928 |
| Cu | Calculated | | See Sec. 4.2 |
| Fe | ICP Assay | 3126a | 140812 |
| Fe | EDTA | 928 | 928 |
| K | ICP Assay | 3141a | 140813 |
| K | Gravimetric | | See Sec. 4.2 |
| Mg | ICP Assay | 3131a | 140110 |
| Mg | EDTA | 928 | 928 |
| Mn | ICP Assay | 3132 | 050429 |
| Mn | EDTA | 928 | 928 |
| Mn | Calculated | | See Sec. 4.2 |
| Na | ICP Assay | 3152a | 120715 |
| Na | Gravimetric | | See Sec. 4.2 |
| Ni | ICP Assay | 3136 | 120619 |
| Ni | EDTA | 928 | 928 |
| Ni | Calculated | | See Sec. 4.2 |
| Pb | ICP Assay | 3128 | 101026 |
| Pb | EDTA | 928 | 928 |
| Pb | Calculated | | See Sec. 4.2 |
| Se | ICP Assay | 3149 | 100901 |
| Se | Calculated | | See Sec. 4.2 |
| Th | EDTA | 928 | 928 |
| Th | Calculated | | See Sec. 4.2 |
| Tl | ICP Assay | 3158 | 151215 |
| Tl | Calculated | | See Sec. 4.2 |
| U | ICP Assay | 3164 | 080521 |
| U | Calculated | | See Sec. 4.2 |

| | | | |
|----|------------|-------|--------------|
| V | ICP Assay | 3165 | 160906 |
| V | EDTA | 928 | 928 |
| Zn | ICP Assay | 3168a | 120629 |
| Zn | EDTA | 928 | 928 |
| Zn | Calculated | | See Sec. 4.2 |

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{\text{CRM/RM}}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{\text{CRM/RM}} = \sum (w_i) (X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{\text{char } i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{\text{char } i}^2) / (\sum (1/u_{\text{char } j}^2))$$

$$\text{CRM/RM Expanded Uncertainty } (\pm) = U_{\text{CRM/RM}} = k (u_{\text{char}}^2 + u_{\text{bb}}^2 + u_{\text{Its}}^2 + u_{\text{ts}}^2)^{1/2}$$

k = coverage factor = 2

$u_{\text{char}} = [\sum (w_i)^2 (u_{\text{char } i}^2)]^{1/2}$ where $u_{\text{char } i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{\text{CRM/RM}}$, where one method of characterization is used is the mean of individual results:

$$X_{\text{CRM/RM}} = (X_a) (u_{\text{char } a})$$

X_a = mean of Assay Method A with

$u_{\text{char } a}$ = the standard uncertainty of characterization Method A

$$\text{CRM/RM Expanded Uncertainty } (\pm) = U_{\text{CRM/RM}} = k (u_{\text{char } a}^2 + u_{\text{bb}}^2 + u_{\text{Its}}^2 + u_{\text{ts}}^2)^{1/2}$$

k = coverage factor = 2

$u_{\text{char } a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Certified Abundance:

IV's Certified Abundance

| <u>Isotope</u> | <u>Atom %</u> |
|----------------|---------------|
| Uranium 238U | 99.8 ± 0.1 |
| Uranium 235U | 0.19 ± 0.05 |

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

Note: This solution contains Silver (Ag), please refer to our Sample Preparation Guide for more information.

<https://www.inorganicventures.com/sample-preparation-guide/samples-containing-silver>

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

June 06, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **June 06, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

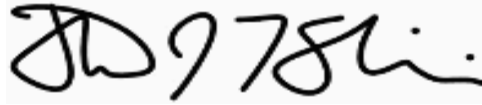
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code: Multi Analyte Custom Grade Solution
 Catalog Number: AR-6020ICS-0A10
 Lot Number: T2-MEB719898
 Matrix: 1.4% (v/v) HNO3
 Value / Analyte(s):
 1 000 µg/mL ea:
 Chloride,
 200 µg/mL ea:
 Carbon,
 100 µg/mL ea:
 Calcium, Aluminum,
 Iron, Potassium,
 Magnesium, Sodium,
 Phosphorus, Sulfur,
 2 µg/mL ea:
 Titanium, Molybdenum

3.0 CERTIFIED VALUES AND UNCERTAINTIES

| ANALYTE | CERTIFIED VALUE | ANALYTE | CERTIFIED VALUE |
|----------------|---------------------|---------------|---------------------|
| Aluminum, Al | 100.0 ± 0.4 µg/mL | Calcium, Ca | 100.0 ± 0.5 µg/mL |
| Carbon, C | 200.1 ± 0.5 µg/mL | Chloride, Cl | 1 000 ± 5 µg/mL |
| Iron, Fe | 100.0 ± 0.5 µg/mL | Magnesium, Mg | 100.0 ± 0.5 µg/mL |
| Molybdenum, Mo | 2.001 ± 0.014 µg/mL | Phosphorus, P | 100.0 ± 0.6 µg/mL |
| Potassium, K | 100.0 ± 0.5 µg/mL | Sodium, Na | 100.0 ± 0.5 µg/mL |
| Sulfur, S | 100.0 ± 0.5 µg/mL | Titanium, Ti | 2.001 ± 0.015 µg/mL |

Density: 1.009 g/mL (measured at 20 ± 4 °C)

Assay Information:

| ANALYTE | METHOD | NIST SRM# | SRM LOT# |
|---------|-------------|-------------------|--------------|
| Al | ICP Assay | 3101a | 140903 |
| Al | EDTA | 928 | 928 |
| C | Acidimetric | 84L | 84L |
| Ca | ICP Assay | 3109a | 130213 |
| Ca | EDTA | 928 | 928 |
| Cl | Acidimetric | 84L | 84L |
| Fe | ICP Assay | 3126a | 140812 |
| Fe | EDTA | 928 | 928 |
| K | ICP Assay | 3141a | 140813 |
| K | Gravimetric | | See Sec. 4.2 |
| Mg | ICP Assay | 3131a | 140110 |
| Mg | EDTA | 928 | 928 |
| Mo | ICP Assay | 3134 | 130418 |
| Na | ICP Assay | 3152a | 120715 |
| Na | Gravimetric | | See Sec. 4.2 |
| P | ICP Assay | 3139a | 060717 |
| P | Acidimetric | 84L | 84L |
| S | Acidimetric | 84L | 84L |
| S | ICP Assay | traceable to 3154 | P2-S680745 |
| Ti | ICP Assay | 3162a | 130925 |

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i) (X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{char i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char i}^2) / (\sum(1/u_{char i}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

u_{char} = $[\sum(w_i)^2 (u_{char i}^2)]^{1/2}$ where $u_{char i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char a})$$

X_a = mean of Assay Method A with

$u_{char a}$ = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char a}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES ($\mu\text{g/mL}$)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

June 07, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **June 07, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

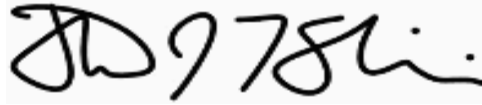
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director





Form I
INORGANIC ANALYSIS DATA SHEET

LDW23-SC1164

EPA 7471B

Total Metals

Laboratory: Analytical Resources, LLC

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Matrix: Sediment

Laboratory ID: 23A0180-01 D

SDG: 23A0180

Sampled: 01/10/23 08:05

Prepared: 04/05/23 16:24

File ID: SMM 04-06-23-070

% Solids: 54.45

Preparation: SMM EPA 7471B

Analyzed: 04/06/23 15:17

Batch: BLD0056

Sequence: SLD0102

Initial/Final: 0.243 g Wet / 50 mL

Instrument: HYDRA

Calibration: GD00018

| CAS NO. | Analyte | Concentration (mg/kg dry) | Dilution Factor | MDL | MRL | Q |
|-----------|---------|---------------------------|-----------------|---------|--------|---|
| 7439-97-6 | Mercury | 0.211 | 1 | 0.00794 | 0.0378 | |



Form I
INORGANIC ANALYSIS DATA SHEET
EPA 7471B
Total Metals

| |
|-----------------|
| LDW23-SC1164-FD |
|-----------------|

Laboratory: Analytical Resources, LLC
 Client: Anchor QEA, LLC
 Project: AOC5 MR Phase 1
 Matrix: Sediment Laboratory ID: 23A0180-02 D SDG: 23A0180
 Sampled: 01/10/23 08:05 Prepared: 04/05/23 16:24 File ID: SMM 04-06-23-071
 % Solids: 54.76 Preparation: SMM EPA 7471B Analyzed: 04/06/23 15:19
 Batch: BLD0056 Sequence: SLD0102 Initial/Final: 0.248 g Wet / 50 mL
 Instrument: HYDRA Calibration: GD00018

| CAS NO. | Analyte | Concentration (mg/kg dry) | Dilution Factor | MDL | MRL | Q |
|-----------|---------|---------------------------|-----------------|---------|--------|---|
| 7439-97-6 | Mercury | 0.186 | 1 | 0.00773 | 0.0368 | |



Form I
INORGANIC ANALYSIS DATA SHEET
EPA 7471B
Total Metals

| |
|--------------|
| LDW23-SC1158 |
|--------------|

Laboratory: Analytical Resources, LLC
 Client: Anchor QEA, LLC
 Project: AOC5 MR Phase 1
 Matrix: Sediment Laboratory ID: 23A0180-03 D SDG: 23A0180
 Sampled: 01/10/23 08:33 Prepared: 04/05/23 16:24 File ID: SMM 04-06-23-072
 % Solids: 54.78 Preparation: SMM EPA 7471B Analyzed: 04/06/23 15:22
 Batch: BLD0056 Sequence: SLD0102 Initial/Final: 0.285 g Wet / 50 mL
 Instrument: HYDRA Calibration: GD00018

| CAS NO. | Analyte | Concentration (mg/kg dry) | Dilution Factor | MDL | MRL | Q |
|-----------|---------|---------------------------|-----------------|---------|--------|---|
| 7439-97-6 | Mercury | 0.163 | 1 | 0.00673 | 0.0320 | |



Form I
INORGANIC ANALYSIS DATA SHEET
EPA 7471B
Total Metals

| |
|--------------|
| LDW23-SC1151 |
|--------------|

Laboratory: Analytical Resources, LLC
 Client: Anchor QEA, LLC
 Project: AOC5 MR Phase 1
 Matrix: Sediment Laboratory ID: 23A0180-04 D SDG: 23A0180
 Sampled: 01/10/23 09:07 Prepared: 04/05/23 16:24 File ID: SMM 04-06-23-073
 % Solids: 55.59 Preparation: SMM EPA 7471B Analyzed: 04/06/23 15:24
 Batch: BLD0056 Sequence: SLD0102 Initial/Final: 0.233 g Wet / 50 mL
 Instrument: HYDRA Calibration: GD00018

| CAS NO. | Analyte | Concentration (mg/kg dry) | Dilution Factor | MDL | MRL | Q |
|-----------|---------|---------------------------|-----------------|---------|--------|---|
| 7439-97-6 | Mercury | 0.156 | 1 | 0.00811 | 0.0386 | |



PREPARATION BATCH SUMMARY

EPA 7471B

Laboratory: Analytical Resources, LLC SDG: 23A0180
Client: Anchor QEA, LLC Project: AOC5 MR Phase 1
Batch: BLD0056 Batch Matrix: Solid Preparation: SMM EPA 7471B

| SAMPLE NAME | LAB SAMPLE ID | LAB FILE ID | DATE PREPARED | OBSERVATIONS |
|-----------------|---------------|------------------|----------------|----------------------------------|
| LDW23-SC1164 | 23A0180-01 | SMM 04-06-23-070 | 04/05/23 16:24 | Store frozen; FROZEN VOLUME USED |
| LDW23-SC1164-FD | 23A0180-02 | SMM 04-06-23-071 | 04/05/23 16:24 | Store frozen; FROZEN VOLUME USED |
| LDW23-SC1158 | 23A0180-03 | SMM 04-06-23-072 | 04/05/23 16:24 | Store frozen; FROZEN VOLUME USED |
| LDW23-SC1151 | 23A0180-04 | SMM 04-06-23-073 | 04/05/23 16:24 | Store frozen; FROZEN VOLUME USED |
| Blank | BLD0056-BLK1 | SMM 04-06-23-046 | 04/05/23 16:24 | |
| LCS | BLD0056-BS1 | SMM 04-06-23-047 | 04/05/23 16:24 | |



Form I
METHOD BLANK DATA SHEET
EPA 7471B
Total Metals

| |
|--------------|
| Blank |
|--------------|

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Batch: BLD0056

Laboratory ID: BLD0056-BLK1

Prepared: 04/05/23 16:24

Matrix: Solid

Preparation: SMM EPA 7471B

Analyzed: 04/06/23 14:21

Sequence: SLD0102

Calibration: GD00018

Instrument: HYDRA

| CAS NO. | Analyte | Concentration (mg/kg wet) | Dilution Factor | MDL | MRL | Q |
|-----------|---------|------------------------------|--------------------|---------|--------|---|
| 7439-97-6 | Mercury | ND | 1 | 0.00525 | 0.0250 | U |



LCS / LCS DUPLICATE RECOVERY

EPA 7471B

Total Metals

| | | | |
|----------------|----------------------------------|----------------|------------------------|
| Laboratory: | <u>Analytical Resources, LLC</u> | SDG: | <u>23A0180</u> |
| Client: | <u>Anchor QEA, LLC</u> | Project: | <u>AOC5 MR Phase 1</u> |
| Matrix: | <u>Solid</u> | Analyzed: | <u>04/06/23 14:23</u> |
| Batch: | <u>BLD0056</u> | Laboratory ID: | <u>BLD0056-BS1</u> |
| Preparation: | <u>SMM EPA 7471B</u> | Sequence Name: | <u>LCS</u> |
| Initial/Final: | <u>0.2 g / 50 mL</u> | | |

| COMPOUND | SPIKE ADDED (mg/kg wet) | LCS CONCENTRATION (mg/kg wet) | Q | LCS % REC. # | QC LIMITS REC. |
|----------|-------------------------|-------------------------------|---|--------------|----------------|
| Mercury | 0.500 | 0.445 | | 89.0 | 80 - 120 |

* Indicates values outside of QC limits



INITIAL CALIBRATION DATA

EPA 7471B

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Calibration: GD00018

Instrument: HYDRA

Calibration Date: 04/06/2023 16:32

| Compound | Level 01 | | Level 02 | | Level 03 | | Level 04 | | Level 05 | | Level 06 | |
|----------|----------|----|----------|---------|----------|---------|----------|---------|----------|---------|----------|---------|
| | Conc | RF | Conc | RF | Conc | RF | Conc | RF | Conc | RF | Conc | RF |
| Mercury | 0 | 0 | 0.0001 | 6630000 | 0.0005 | 6044000 | 0.001 | 5974000 | 0.002 | 6052500 | 0.005 | 5912000 |



INITIAL CALIBRATION DATA

EPA 7471B

| | | | |
|-------------------|---------------------------|-------------|-----------------|
| Laboratory: | Analytical Resources, LLC | SDG: | 23A0180 |
| Client: | Anchor QEA, LLC | Project: | AOC5 MR Phase 1 |
| Calibration: | GD00018 | Instrument: | HYDRA |
| Calibration Date: | 04/06/2023 16:32 | | |

| COMPOUND | Mean RF | RF RSD | Linear COD | Quad COD | COD Limit | Q |
|----------|---------|--------|------------|----------|-----------|---|
| Mercury | 5102083 | 49.3 | 0.9999 | | 0.99 | |

| Sample ID | Mean | Units | Date | Method |
|--------------|---------------|-------|----------------------|---------------------|
| SEQ-CAL1 | 71 | PPB | 06 Apr 2023 10:35:37 | ARI 5 ppb (NO 0.05) |
| SEQ-CAL2 | 663 | PPB | 06 Apr 2023 10:37:59 | ARI 5 ppb (NO 0.05) |
| SEQ-CAL3 | 3022 | PPB | 06 Apr 2023 10:40:20 | ARI 5 ppb (NO 0.05) |
| SEQ-CAL4 | 5974 | PPB | 06 Apr 2023 10:42:40 | ARI 5 ppb (NO 0.05) |
| SEQ-CAL5 | 12105 | PPB | 06 Apr 2023 10:45:01 | ARI 5 ppb (NO 0.05) |
| SEQ-CAL6 | 29560 | PPB | 06 Apr 2023 10:47:21 | ARI 5 ppb (NO 0.05) |
| SEQ-ICV | 101.2% 4.0478 | PPB ✓ | 06 Apr 2023 11:04:52 | ARI 5 ppb (NO 0.05) |
| SEQ-ICB | -0.0120 | PPB ✓ | 06 Apr 2023 11:07:11 | ARI 5 ppb (NO 0.05) |
| SEQ-CRL | 89.2% 0.0892 | PPB ✓ | 06 Apr 2023 11:09:33 | ARI 5 ppb (NO 0.05) |
| SEQ-CCV | 102.2% 4.0892 | PPB ✓ | 06 Apr 2023 11:11:53 | ARI 5 ppb (NO 0.05) |
| SEQ-CCB | -0.0142 | PPB ✓ | 06 Apr 2023 11:14:12 | ARI 5 ppb (NO 0.05) |
| BLD0031-BLK1 | -0.0024 | PPB | 06 Apr 2023 11:16:33 | ARI 5 ppb (NO 0.05) |
| BLD0031-BS1 | 1.8433 | PPB ✓ | 06 Apr 2023 11:18:52 | ARI 5 ppb (NO 0.05) |
| SEQ-CCV | 101.1% 4.0433 | PPB ✓ | 06 Apr 2023 11:21:11 | ARI 5 ppb (NO 0.05) |
| SEQ-CCB | -0.0126 | PPB ✓ | 06 Apr 2023 11:23:29 | ARI 5 ppb (NO 0.05) |
| SEQ-CCV | 100.7% 4.0294 | PPB ✓ | 06 Apr 2023 13:11:35 | ARI 5 ppb (NO 0.05) |
| SEQ-CCB | -0.0115 | PPB ✓ | 06 Apr 2023 13:13:53 | ARI 5 ppb (NO 0.05) |
| 23A0157-01 | 0.3997 | PPB | 06 Apr 2023 13:16:15 | ARI 5 ppb (NO 0.05) |
| BLD0031-DUP1 | 0.3594 | PPB | 06 Apr 2023 13:18:34 | ARI 5 ppb (NO 0.05) |
| BLD0031-MS1 | 0.7552 | PPB ✗ | 06 Apr 2023 13:20:53 | ARI 5 ppb (NO 0.05) |
| BLD0031-MSD1 | 1.5273 | PPB ✓ | 06 Apr 2023 13:23:12 | ARI 5 ppb (NO 0.05) |
| 23A0157-03 | 0.0613 | PPB | 06 Apr 2023 13:25:31 | ARI 5 ppb (NO 0.05) |
| 23A0157-06 | 0.3954 | PPB | 06 Apr 2023 13:27:49 | ARI 5 ppb (NO 0.05) |
| 23A0157-07 | 0.3579 | PPB | 06 Apr 2023 13:30:08 | ARI 5 ppb (NO 0.05) |
| 23A0157-08 | 0.4123 | PPB | 06 Apr 2023 13:32:28 | ARI 5 ppb (NO 0.05) |
| 23A0157-09 | 0.2981 | PPB | 06 Apr 2023 13:34:48 | ARI 5 ppb (NO 0.05) |
| 23A0157-10 | 0.3399 | PPB | 06 Apr 2023 13:37:08 | ARI 5 ppb (NO 0.05) |
| SEQ-CCV | 101.8% 4.0729 | PPB ✓ | 06 Apr 2023 13:39:29 | ARI 5 ppb (NO 0.05) |
| SEQ-CCB | -0.0130 | PPB ✓ | 06 Apr 2023 13:41:47 | ARI 5 ppb (NO 0.05) |
| 23A0157-11 | 0.1242 | PPB | 06 Apr 2023 13:44:09 | ARI 5 ppb (NO 0.05) |
| 23A0157-12 | 0.3643 | PPB | 06 Apr 2023 13:46:30 | ARI 5 ppb (NO 0.05) |
| 23A0157-13 | 0.4764 | PPB | 06 Apr 2023 13:48:50 | ARI 5 ppb (NO 0.05) |
| 23A0158-04 | 0.5078 | PPB | 06 Apr 2023 13:51:09 | ARI 5 ppb (NO 0.05) |
| 23A0158-05 | 0.4074 | PPB | 06 Apr 2023 13:53:28 | ARI 5 ppb (NO 0.05) |
| 23A0158-06 | 0.8240 | PPB | 06 Apr 2023 13:55:47 | ARI 5 ppb (NO 0.05) |
| 23A0158-07 | 0.5818 | PPB | 06 Apr 2023 13:58:06 | ARI 5 ppb (NO 0.05) |
| 23A0158-08 | 0.1469 | PPB | 06 Apr 2023 14:00:25 | ARI 5 ppb (NO 0.05) |
| 23A0158-09 | 0.1853 | PPB | 06 Apr 2023 14:02:43 | ARI 5 ppb (NO 0.05) |
| 23A0158-10 | 0.6164 | PPB | 06 Apr 2023 14:05:03 | ARI 5 ppb (NO 0.05) |
| SEQ-CCV | 89.3% 3.5716 | PPB ✓ | 06 Apr 2023 14:07:23 | ARI 5 ppb (NO 0.05) |
| SEQ-CCB | -0.0188 | PPB ✓ | 06 Apr 2023 14:09:42 | ARI 5 ppb (NO 0.05) |
| 23A0158-11 | 0.3216 | PPB | 06 Apr 2023 14:12:04 | ARI 5 ppb (NO 0.05) |
| 23A0158-12 | 0.2713 | PPB | 06 Apr 2023 14:14:25 | ARI 5 ppb (NO 0.05) |
| 23A0158-13 | 0.3788 | PPB | 06 Apr 2023 14:16:45 | ARI 5 ppb (NO 0.05) |
| BLD0031-PS1 | 1.2435 | PPB ✓ | 06 Apr 2023 14:19:06 | ARI 5 ppb (NO 0.05) |
| BLD0056-BLK1 | -0.0087 | PPB | 06 Apr 2023 14:21:27 | ARI 5 ppb (NO 0.05) |
| BLD0056-BS1 | 1.7797 | PPB ✓ | 06 Apr 2023 14:23:46 | ARI 5 ppb (NO 0.05) |
| 23A0179-01 | 0.3078 | PPB | 06 Apr 2023 14:26:06 | ARI 5 ppb (NO 0.05) |
| BLD0056-DUP1 | 0.2533 | PPB | 06 Apr 2023 14:28:26 | ARI 5 ppb (NO 0.05) |
| BLD0056-MS1 | 1.2159 | PPB ✓ | 06 Apr 2023 14:30:45 | ARI 5 ppb (NO 0.05) |
| BLD0056-MSD1 | 1.1927 | PPB ✓ | 06 Apr 2023 14:33:05 | ARI 5 ppb (NO 0.05) |
| SEQ-CCV | 97.9% 3.9156 | PPB ✓ | 06 Apr 2023 14:35:25 | ARI 5 ppb (NO 0.05) |
| SEQ-CCB | -0.0142 | PPB ✓ | 06 Apr 2023 14:37:43 | ARI 5 ppb (NO 0.05) |
| 23A0158-14 | 0.3319 | PPB | 06 Apr 2023 14:40:05 | ARI 5 ppb (NO 0.05) |
| 23A0158-15 | 0.2772 | PPB | 06 Apr 2023 14:42:24 | ARI 5 ppb (NO 0.05) |
| 23A0158-16 | 0.2542 | PPB | 06 Apr 2023 14:44:45 | ARI 5 ppb (NO 0.05) |
| 23A0179-02 | 0.2049 | PPB | 06 Apr 2023 14:47:05 | ARI 5 ppb (NO 0.05) |
| 23A0179-03 | 0.2545 | PPB | 06 Apr 2023 14:49:25 | ARI 5 ppb (NO 0.05) |
| 23A0179-04 | 0.3590 | PPB | 06 Apr 2023 14:51:46 | ARI 5 ppb (NO 0.05) |
| 23A0179-05 | 0.1709 | PPB | 06 Apr 2023 14:54:06 | ARI 5 ppb (NO 0.05) |

SMM 04-06-23

Method: ARI 5 ppb (NO 0.05)

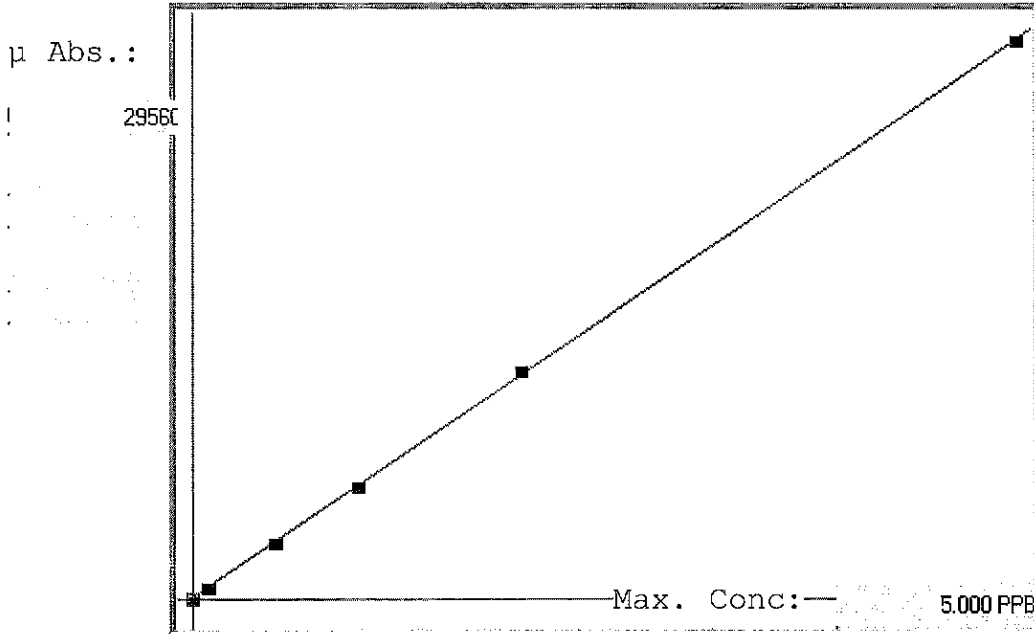
Operator: Admin

Date of Analysis: 06 Apr 2023 10:35:23

| Sample ID | Mean | Units | Date | Method |
|--------------|---------------|-------|----------------------|---------------------|
| 23A0179-06 | 0.3370 | PPB | 06 Apr 2023 14:56:26 | ARI 5 ppb (NO 0.05) |
| 23A0179-07 | 0.2042 | PPB | 06 Apr 2023 14:58:46 | ARI 5 ppb (NO 0.05) |
| 23A0179-08 | 0.2854 | PPB | 06 Apr 2023 15:01:05 | ARI 5 ppb (NO 0.05) |
| SEQ-CCV | 100.0% 3.9991 | PPB ✓ | 06 Apr 2023 15:03:25 | ARI 5 ppb (NO 0.05) |
| SEQ-CCB | -0.0128 | PPB ✓ | 06 Apr 2023 15:05:43 | ARI 5 ppb (NO 0.05) |
| 23A0179-09 | 0.4487 | PPB | 06 Apr 2023 15:08:05 | ARI 5 ppb (NO 0.05) |
| 23A0179-10 | 0.4658 | PPB | 06 Apr 2023 15:10:24 | ARI 5 ppb (NO 0.05) |
| 23A0179-11 | 0.3784 | PPB | 06 Apr 2023 15:12:44 | ARI 5 ppb (NO 0.05) |
| 23A0179-12 | 0.3981 | PPB | 06 Apr 2023 15:15:03 | ARI 5 ppb (NO 0.05) |
| 23A0180-01 | 0.5586 | PPB | 06 Apr 2023 15:17:23 | ARI 5 ppb (NO 0.05) |
| 23A0180-02 | 0.5061 | PPB | 06 Apr 2023 15:19:43 | ARI 5 ppb (NO 0.05) |
| 23A0180-03 | 0.5103 | PPB | 06 Apr 2023 15:22:04 | ARI 5 ppb (NO 0.05) |
| 23A0180-04 | 0.4028 | PPB | 06 Apr 2023 15:24:25 | ARI 5 ppb (NO 0.05) |
| BLD0124-BLK1 | -0.0074 | PPB | 06 Apr 2023 15:26:46 | ARI 5 ppb (NO 0.05) |
| BLD0124-BS1 | 1.8358 | PPB ✓ | 06 Apr 2023 15:29:06 | ARI 5 ppb (NO 0.05) |
| SEQ-CCV | 101.6% 4.0655 | PPB ✓ | 06 Apr 2023 15:31:25 | ARI 5 ppb (NO 0.05) |
| SEQ-CCB | -0.0126 | PPB ✓ | 06 Apr 2023 15:33:44 | ARI 5 ppb (NO 0.05) |
| 23A0206-01 | 0.4785 | PPB | 06 Apr 2023 15:36:06 | ARI 5 ppb (NO 0.05) |
| BLD0124-DUP1 | 0.6405 | PPB | 06 Apr 2023 15:38:25 | ARI 5 ppb (NO 0.05) |
| BLD0124-MS1 | 1.5643 | PPB ✓ | 06 Apr 2023 15:40:45 | ARI 5 ppb (NO 0.05) |
| BLD0124-MSD1 | 1.5269 | PPB ✓ | 06 Apr 2023 15:43:04 | ARI 5 ppb (NO 0.05) |
| 23A0206-02 | 0.4202 | PPB | 06 Apr 2023 15:45:24 | ARI 5 ppb (NO 0.05) |
| 23A0206-03 | 0.2849 | PPB | 06 Apr 2023 15:47:43 | ARI 5 ppb (NO 0.05) |
| 23A0206-04 | 0.2801 | PPB | 06 Apr 2023 15:50:02 | ARI 5 ppb (NO 0.05) |
| 23A0206-05 | 0.4032 | PPB | 06 Apr 2023 15:52:22 | ARI 5 ppb (NO 0.05) |
| 23A0206-06 | 0.4391 | PPB | 06 Apr 2023 15:54:43 | ARI 5 ppb (NO 0.05) |
| 23A0206-07 | 0.3668 | PPB | 06 Apr 2023 15:57:04 | ARI 5 ppb (NO 0.05) |
| SEQ-CCV | 101.1% 4.0451 | PPB ✓ | 06 Apr 2023 15:59:25 | ARI 5 ppb (NO 0.05) |
| SEQ-CCB | -0.0123 | PPB ✓ | 06 Apr 2023 16:01:44 | ARI 5 ppb (NO 0.05) |
| 23A0206-08 | 0.3552 | PPB | 06 Apr 2023 16:04:05 | ARI 5 ppb (NO 0.05) |
| 23A0206-09 | 0.4224 | PPB | 06 Apr 2023 16:06:25 | ARI 5 ppb (NO 0.05) |
| 23A0206-10 | 0.3758 | PPB | 06 Apr 2023 16:08:45 | ARI 5 ppb (NO 0.05) |
| 23A0206-11 | 0.4351 | PPB | 06 Apr 2023 16:11:04 | ARI 5 ppb (NO 0.05) |
| 23A0206-12 | 0.3878 | PPB | 06 Apr 2023 16:13:25 | ARI 5 ppb (NO 0.05) |
| 23A0206-13 | 0.8163 | PPB | 06 Apr 2023 16:15:46 | ARI 5 ppb (NO 0.05) |
| 23A0206-14 | 0.4115 | PPB | 06 Apr 2023 16:18:05 | ARI 5 ppb (NO 0.05) |
| SEQ-CCV | 99.4% 3.9769 | PPB ✓ | 06 Apr 2023 16:20:25 | ARI 5 ppb (NO 0.05) |
| SEQ-CCB | -0.0132 | PPB ✓ | 06 Apr 2023 16:22:44 | ARI 5 ppb (NO 0.05) |

ARI 5 ppb (NO 0.05)

Linear



A= 0.0000e+000

B= 1.6934e-004

C= -1.7179e-002

Rho= 0.9999635

Accept=Accepted

Accepted Date=

04/06/23 10:50

| Std ID | Conc. | Calc. | Dev. | Mean | SD or %RSD | Rep 1 | Rep 2 | Rep 3 | Rep 4 | Rep 5 |
|--------------------|-------|--------|--------|-------|------------|-------|-------|-------|-------|-------|
| SEQ-CAL1 - Blank | 0.000 | -0.005 | -0.005 | 71 | 2.449 | 68 | 74 | 71 | | |
| SEQ-CAL2 - 0.1 PPB | 0.100 | 0.095 | -0.005 | 663 | 1.1 % | 661 | 656 | 673 | | |
| SEQ-CAL3 - 0.5 PPB | 0.500 | 0.494 | -0.006 | 3021 | 1.2 % | 2976 | 3022 | 3067 | | |
| SEQ-CAL4 - 1.0 PPB | 1.000 | 0.994 | -0.006 | 5974 | 0.9 % | 5902 | 5994 | 6026 | | |
| SEQ-CAL5 - 2.0 PPB | 2.000 | 2.033 | 0.033 | 12105 | 0.6 % | 12003 | 12128 | 12184 | | |
| SEQ-CAL6 - 5.0 PPB | 5.000 | 4.988 | -0.012 | 29560 | 0.6 % | 29404 | 29830 | 29447 | | |

Mercury Analysis Log

Analyst: ML
 Instrument: HYDRA

Date: 04/06/23
 Page: 1 of 4

| ARI Sample ID | Prep Code | Dilution | QC Data (ppb) | Comments |
|---------------|-----------|----------|---------------|----------|
| SEQ -C011 | Smm | 1X | | |
| -C012 | | | | |
| -C013 | | | | |
| -C014 | | | | |
| -C015 | | | | |
| -C016 | | | | |
| -ICV | | | 4.04 | |
| -ICB | | | -0.012 | |
| -CRL | | | 0.089 | |
| -CCV | | | 4.08 | |
| ↓ -C03 | | | -0.014 | |
| BLD0031 -B1K1 | | | | |
| ↓ -B51 | | | ✓ 1.843 | 92.1 μR |
| SEQ -CCV | | | ✓ 4.04 | |
| -C03 | | | ✓ -0.012 | |
| -C04 | | | ✓ 4.02 | |
| ↓ -C03 | | | ✓ -0.011 | |
| 23A0157 -01 | | | | |
| BLD0031 -DUP1 | | | | |
| -M51 | | | ✗ 0.755 | 35.5 μR |
| ↓ -M5D1 | | | ✓ 1.527 | 112.7 μR |
| 23A0157 -03 | | | | |
| -06 | | | | |
| -07 | | | | |
| -08 | | | | |
| -09 | | | | |
| ↓ -10 | | | | |
| SEQ -CCV | | | ✓ 4.07 | |
| ↓ -C03 | | | ✓ -0.013 | |
| 23A0157 -11 | | | | |

Chemical/Reagent ID:
 10% SnCl₂: L3565

14% NH₂OH/NaCl: L3351

Standard ID:
 Standard: L3630 - L3635

ICV/CCV: L3627

Mercury Analysis Log

Analyst:

Date:

Instrument:

Page: 2 of 4

| ARI Sample ID | Prep Code | Dilution | QC Data (ppb) | Comments |
|---------------|-----------|----------|---------------|----------|
| ↓ -12 | | | | |
| ↓ -13 | | | | |
| 23A0158 -04 | | | | |
| ↓ -05 | | | | |
| ↓ -06 | | | | |
| ↓ -07 | | | | |
| ↓ -08 | | | | |
| ↓ -09 | | | | |
| ↓ -10 | | | | |
| SEA -CCV | | | √ 3.57 | |
| ↓ -CCB | | | √ -0.018 | |
| 73A0158 -11 | | | | |
| ↓ -12 | | | | |
| ↓ -13 | | | | |
| BLD0031 -PS1 | | | √ 1.243 | 84.3 IR |
| BLD0056 -BIK1 | | | | |
| ↓ -BS1 | | | √ 1.779 | 88.9 IR |
| 23A0179 -01 | | | | |
| BLD0056 -DVP1 | | | | |
| ↓ -MS1 | | | √ 1.215 | 90.8 IR |
| ↓ -MSD1 | | | √ 1.192 | 88.4 IR |
| SEA -CCV | | | √ 3.91 | |
| ↓ -CCB | | | √ -0.014 | |
| 23A0158 -14 | | | | |
| ↓ -15 | | | | |
| ↓ -16 | | | | |
| 23A0179 -02 | | | | |
| ↓ -03 | | | | |
| ↓ -04 | | | | |
| ↓ -05 | | | | |

Chemical/Reagent ID:
10% SnCl₂:

14% NH₂OH/NaCl:

Standard ID:
Standard:

ICV/CCV:

Mercury Analysis Log

Analyst:
 Instrument:

Date:
 Page: 3 of 4

| ARI Sample ID | Prep Code | Dilution | QC Data (ppb) | Comments |
|---------------------------|-----------|----------|---------------|-----------|
| -06 | | | | |
| ↓ -07 | | | | |
| ↓ -08 | | | | |
| SEA -CCV | | | √3.99 | |
| ↓ -CCB | | | √-0.012 | |
| 23A0179 -09 | | | | |
| -10 | | | | |
| ↓ -11 | | | | |
| ↓ -12 | | | | |
| 23A0180-01- 13 | | | | |
| -02 | | | | |
| ↓ -03 | | | | |
| ↓ -04 | | | | |
| BLD0124 -B1K1 | | | | |
| ↓ -B31 | | | √1.835 | 91.7%R |
| SEA -CCV | | | √4.06 | |
| ↓ -CCB | | | √-0.012 | |
| 23A0206 -01 | | | | |
| BLD0124 -DVP1 | | | | RPD=28.95 |
| -MS1 | | | √1.564 | 108.5%R |
| ↓ -MSD1 | | | √1.526 | 104.8%R |
| 23A0206 -02 | | | | |
| -03 | | | | |
| -04 | | | | |
| -05 | | | | |
| -06 | | | | |
| ↓ -07 | | | | |
| SEA -CCV | | | √4.04 | |
| -CCB | | | √-0.012 | |
| 23A0206 -08 | | | | |

Chemical/Reagent ID:
 10% SnCl₂:
 Standard ID:
 Standard:

14% NH₂OH/NaCl:
 ICV/CCV:

Mercury Analysis Log

Analyst:
 Instrument:

Date:
 Page: 4 of 4

| ARI Sample ID | Prep Code | Dilution | QC Data (ppb) | Comments |
|---|-----------|----------|---------------|----------|
| -09 | | | | |
| -10 | | | | |
| -11 | | | | |
| -12 | | | | |
| -13 | | | | |
| -14 | | | | |
| SEA -CCV | | | √3.97 | |
| -CCB | | | √-0.013 | |
| <div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); opacity: 0.5;"> MI 04106123 </div> | | | | |

Chemical/Reagent ID:
 10% SnCl₂:
 Standard ID:
 Standard:

14% NH₂OH/NaCl:
 ICV/CCV:



**INITIAL AND CONTINUING
CALIBRATION CHECK
EPA 7471B**

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: HYDRA

Calibration: GD00018

Control Limit: +/- 20.00%

Sequence: SLD0102

| Lab Sample ID | Analyte | True | Found | %R | Units | Method |
|---------------|---------|-----------|---------|------|-------|-----------|
| SLD0102-ICV1 | Mercury | 0.0040000 | 0.00405 | 101 | mg/L | EPA 7471B |
| SLD0102-CCV1 | Mercury | 0.0040000 | 0.00409 | 102 | mg/L | EPA 7471B |
| SLD0102-CCV2 | Mercury | 0.0040000 | 0.00404 | 101 | mg/L | EPA 7471B |
| SLD0102-CCV3 | Mercury | 0.0040000 | 0.00403 | 101 | mg/L | EPA 7471B |
| SLD0102-CCV4 | Mercury | 0.0040000 | 0.00407 | 102 | mg/L | EPA 7471B |
| SLD0102-CCV5 | Mercury | 0.0040000 | 0.00357 | 89.3 | mg/L | EPA 7471B |
| SLD0102-CCV6 | Mercury | 0.0040000 | 0.00392 | 97.9 | mg/L | EPA 7471B |
| SLD0102-CCV7 | Mercury | 0.0040000 | 0.00400 | 100 | mg/L | EPA 7471B |
| SLD0102-CCV8 | Mercury | 0.0040000 | 0.00407 | 102 | mg/L | EPA 7471B |
| SLD0102-CCV9 | Mercury | 0.0040000 | 0.00405 | 101 | mg/L | EPA 7471B |
| SLD0102-CCVA | Mercury | 0.0040000 | 0.00398 | 99.4 | mg/L | EPA 7471B |

* Values outside of QC limits



INSTRUMENT BLANKS
EPA 7471B

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: HYDRA

Calibration: GD00018

Sequence: SLD0102

Date Analyzed: 04/06/23 11:07

| Lab Sample ID | Analyte | Found | MDL | MRL | Units | C |
|---------------|---------|-----------|----------|----------|-------|---|
| SLD0102-ICB1 | Mercury | -0.000012 | 0.000021 | 0.000100 | mg/L | |
| SLD0102-CCB1 | Mercury | -0.000014 | 0.000021 | 0.000100 | mg/L | |
| SLD0102-CCB2 | Mercury | -0.000013 | 0.000021 | 0.000100 | mg/L | |
| SLD0102-CCB3 | Mercury | -0.000012 | 0.000021 | 0.000100 | mg/L | |
| SLD0102-CCB4 | Mercury | -0.000013 | 0.000021 | 0.000100 | mg/L | |
| SLD0102-CCB5 | Mercury | -0.000019 | 0.000021 | 0.000100 | mg/L | |
| SLD0102-CCB6 | Mercury | -0.000014 | 0.000021 | 0.000100 | mg/L | |
| SLD0102-CCB7 | Mercury | -0.000013 | 0.000021 | 0.000100 | mg/L | |
| SLD0102-CCB8 | Mercury | -0.000013 | 0.000021 | 0.000100 | mg/L | |
| SLD0102-CCB9 | Mercury | -0.000012 | 0.000021 | 0.000100 | mg/L | |
| SLD0102-CCBA | Mercury | -0.000013 | 0.000021 | 0.000100 | mg/L | |



ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 7471B

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Sequence: SLD0102

Instrument: HYDRA

Calibration: GD00018

| Sample Name | Lab Sample ID | Lab File ID | Matrix | Analysis Date/Time |
|---------------------|---------------|------------------|--------|--------------------|
| Cal Standard | SLD0102-CAL1 | SMM 04-06-23-001 | NA | 04/06/23 10:35 |
| Cal Standard | SLD0102-CAL2 | SMM 04-06-23-002 | NA | 04/06/23 10:37 |
| Cal Standard | SLD0102-CAL3 | SMM 04-06-23-003 | NA | 04/06/23 10:40 |
| Cal Standard | SLD0102-CAL4 | SMM 04-06-23-004 | NA | 04/06/23 10:42 |
| Cal Standard | SLD0102-CAL5 | SMM 04-06-23-005 | NA | 04/06/23 10:45 |
| Cal Standard | SLD0102-CAL6 | SMM 04-06-23-006 | NA | 04/06/23 10:47 |
| Initial Cal Check | SLD0102-ICV1 | SMM 04-06-23-007 | NA | 04/06/23 11:04 |
| Initial Cal Blank | SLD0102-ICB1 | SMM 04-06-23-008 | NA | 04/06/23 11:07 |
| Instrument RL Check | SLD0102-CRL1 | SMM 04-06-23-009 | NA | 04/06/23 11:09 |
| Calibration Check | SLD0102-CCV1 | SMM 04-06-23-010 | NA | 04/06/23 11:11 |
| Calibration Blank | SLD0102-CCB1 | SMM 04-06-23-011 | NA | 04/06/23 11:14 |
| Calibration Check | SLD0102-CCV2 | SMM 04-06-23-014 | NA | 04/06/23 11:21 |
| Calibration Blank | SLD0102-CCB2 | SMM 04-06-23-015 | NA | 04/06/23 11:23 |
| Calibration Check | SLD0102-CCV3 | SMM 04-06-23-016 | NA | 04/06/23 13:11 |
| Calibration Blank | SLD0102-CCB3 | SMM 04-06-23-017 | NA | 04/06/23 13:13 |
| Calibration Check | SLD0102-CCV4 | SMM 04-06-23-028 | NA | 04/06/23 13:39 |
| Calibration Blank | SLD0102-CCB4 | SMM 04-06-23-029 | NA | 04/06/23 13:41 |
| Calibration Check | SLD0102-CCV5 | SMM 04-06-23-040 | NA | 04/06/23 14:07 |
| Calibration Blank | SLD0102-CCB5 | SMM 04-06-23-041 | NA | 04/06/23 14:09 |
| Blank | BLD0056-BLK1 | SMM 04-06-23-046 | Solid | 04/06/23 14:21 |
| LCS | BLD0056-BS1 | SMM 04-06-23-047 | Solid | 04/06/23 14:23 |
| Calibration Check | SLD0102-CCV6 | SMM 04-06-23-052 | NA | 04/06/23 14:35 |
| Calibration Blank | SLD0102-CCB6 | SMM 04-06-23-053 | NA | 04/06/23 14:37 |
| Calibration Check | SLD0102-CCV7 | SMM 04-06-23-064 | NA | 04/06/23 15:03 |
| Calibration Blank | SLD0102-CCB7 | SMM 04-06-23-065 | NA | 04/06/23 15:05 |
| LDW23-SC1164 | 23A0180-01 | SMM 04-06-23-070 | Solid | 04/06/23 15:17 |
| LDW23-SC1164-FD | 23A0180-02 | SMM 04-06-23-071 | Solid | 04/06/23 15:19 |
| LDW23-SC1158 | 23A0180-03 | SMM 04-06-23-072 | Solid | 04/06/23 15:22 |
| LDW23-SC1151 | 23A0180-04 | SMM 04-06-23-073 | Solid | 04/06/23 15:24 |



ANALYSIS BATCH (SEQUENCE) SUMMARY
EPA 7471B

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Sequence: SLD0102

Instrument: HYDRA

Calibration: GD00018

| Sample Name | Lab Sample ID | Lab File ID | Matrix | Analysis Date/Time |
|-------------------|---------------|------------------|--------|--------------------|
| Calibration Check | SLD0102-CCV8 | SMM 04-06-23-076 | NA | 04/06/23 15:31 |
| Calibration Blank | SLD0102-CCB8 | SMM 04-06-23-077 | NA | 04/06/23 15:33 |
| Calibration Check | SLD0102-CCV9 | SMM 04-06-23-088 | NA | 04/06/23 15:59 |
| Calibration Blank | SLD0102-CCB9 | SMM 04-06-23-089 | NA | 04/06/23 16:01 |
| Calibration Check | SLD0102-CCVA | SMM 04-06-23-097 | NA | 04/06/23 16:20 |
| Calibration Blank | SLD0102-CCBA | SMM 04-06-23-098 | NA | 04/06/23 16:22 |



DETECTION LEVEL STANDARD
EPA 7471B

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: HYDRA

Calibration: GD00018

Sequence: SLD0102

Lab Sample ID: SLD0102-CRL1

| Analyte | True | Found | %R | Units | QC Limits |
|---------|----------|----------|------|-------|-----------|
| Mercury | 0.000100 | 0.000089 | 89.2 | mg/L | 70 - 130 |

* Values outside of QC limits



HOLDING TIME SUMMARY

Analysis: EPA 7471B

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

| Sample Name | Date Collected | Date Received | Date Prepared | Days to Prep | Max Days to Prep | Date Analyzed | Days to Analysis | Max Days to Analysis | Q |
|-------------------------------|-------------------|-------------------|-------------------|--------------|------------------|-------------------|------------------|----------------------|---|
| LDW23-SC1164 23A0180-01 | 01/10/23 08:05 | 01/10/23 17:10 | 04/05/23 16:24 | 85 | 180 | 04/06/23 15:17 | 86 | 180 | |
| LDW23-SC1164-FD 23A0180-02 | 01/10/23 08:05 | 01/10/23 17:10 | 04/05/23 16:24 | 85 | 180 | 04/06/23 15:19 | 86 | 180 | |
| LDW23-SC1158 23A0180-03 | 01/10/23 08:33 | 01/10/23 17:10 | 04/05/23 16:24 | 85 | 180 | 04/06/23 15:22 | 86 | 180 | |
| LDW23-SC1151 23A0180-04 | 01/10/23 09:07 | 01/10/23 17:10 | 04/05/23 16:24 | 85 | 180 | 04/06/23 15:24 | 86 | 180 | |

* Indicates hold time exceedance.



Analytical Resources, LLC
Analytical Chemists and Consultants

METHOD DETECTION AND REPORTING LIMITS

EPA 7471B

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Matrix: Solid

Instrument: HYDRA

| Analyte | MDL | RL | Units |
|----------------|------------|-----------|--------------|
| Mercury | 0.00525 | 0.0250 | mg/kg |

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution
Catalog Number: CGHG1
Lot Number: S2-HG711246
Matrix: 5% (v/v) HNO₃
Value / Analyte(s): 1 000 µg/mL ea:
Mercury
Starting Material: Hg Metal
Starting Material Lot#: 1959
Starting Material Purity: 99.9993%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 1000 ± 3 µg/mL
Density: 1.026 g/mL (measured at 20 ± 4 °C)

Assay Information:

| | |
|------------------------|---|
| Assay Method #1 | 1004 ± 6 µg/mL ICP Assay NIST SRM 3133 Lot Number: 160921 |
| Assay Method #2 | 998 ± 3 µg/mL EDTA NIST SRM 928 Lot Number: 928 |
| Assay Method #3 | 1001 ± 3 µg/mL Calculated NIST SRM Lot Number: See Sec. 4.2 |

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{char\ i}^2) / (\sum(1/u_{char\ j}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char} = [\sum(w_i)^2 (u_{char\ i})^2]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char\ a})$$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char\ a}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES ($\mu\text{g/mL}$)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 μm .

| | | | | |
|-----------------|-----------------|-----------------|-----------------|-----------------|
| M Ag < 0.000210 | M Eu < 0.000210 | O Na < 0.000626 | M Se < 0.008100 | M Zn < 0.000810 |
| M Al < 0.000161 | O Fe < 0.001600 | M Nb < 0.000410 | O Si < 0.000626 | M Zr < 0.000410 |
| M As < 0.002500 | M Ga < 0.000210 | M Nd < 0.000210 | M Sm < 0.000210 | |
| O Au < 0.001700 | M Gd < 0.000210 | O Ni < 0.001400 | M Sn < 0.000410 | |
| M B < 0.008500 | M Ge < 0.000410 | M Os < 0.003900 | O Sr < 0.000110 | |
| M Ba < 0.000210 | M Hf < 0.000210 | O P < 0.029000 | M Ta < 0.000210 | |
| O Be < 0.000110 | s Hg < 0.000210 | M Pb < 0.000210 | M Tb < 0.000210 | |
| M Bi < 0.001100 | M Ho < 0.000210 | M Pd < 0.003500 | M Te < 0.005700 | |
| O Ca < 0.004754 | M In < 0.000210 | M Pr < 0.000210 | M Th < 0.000210 | |
| M Cd < 0.000210 | M Ir < 0.000210 | M Pt < 0.000210 | O Ti < 0.000430 | |
| M Ce < 0.000210 | O K < 0.000731 | M Rb < 0.000210 | O Tl < 0.005400 | |
| M Co < 0.000210 | M La < 0.000210 | M Re < 0.000210 | M Tm < 0.000210 | |
| O Cr < 0.003300 | O Li < 0.000110 | M Rh < 0.001100 | M U < 0.000410 | |
| M Cs < 0.000410 | M Lu < 0.000210 | M Ru < 0.000810 | M V < 0.000210 | |
| M Cu < 0.000810 | O Mg < 0.000104 | O S < 0.022000 | M W < 0.001100 | |
| M Dy < 0.000210 | O Mn < 0.000430 | M Sb < 0.000210 | M Y < 0.000210 | |
| M Er < 0.000210 | M Mo < 0.000210 | M Sc < 0.000210 | M Yb < 0.000210 | |

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.
- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.
- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 200.59 +2 4 Hg(OH)(aq) 1+
Chemical Compatibility - Stable in HNO₃. Avoid basic media forming insoluble carbonate. The sulfide, basic carbonate, oxalate, phosphate, arsenite, arsenate and iodide are insoluble in water.

Stability - 2-100 ppb levels not stable in 1% HNO₃ / LDPE container, stable in 10% HNO₃ packaged in borosilicate glass. 1-100 ppm levels stable in 7% HNO₃ packaged in borosilicate glass. 1000-10,000 ppm solutions are chemically stable for years in 5-10% HNO₃ / LDPE container.

Hg Containing Samples (Preparation and Solution) - Metal (soluble in HNO₃); Oxide (Soluble in HNO₃); Ores and Organic based (The literature has more references to the preparation of Hg containing samples than any other element. Please consult the literature for your specific sample type, since such preparations are prone to error. Or e-mail our technical staff and we will contact you to discuss your particular sample preparation questions in further detail.).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

| Technique/Line | Estimated D.L. | Order | Interferences (underlined indicates severe) |
|--------------------|--------------------|-------|---|
| ICP-MS 202 amu | 9 ppt | n/a | 186W16O |
| ICP-OES 184.950 nm | 0.03 / 0.005 µg/mL | 1 | |
| ICP-OES 194.227 nm | 0.03 / 0.005 µg/mL | 1 | V |
| ICP-OES 253.652 nm | 0.1 / 0.03 µg/mL | 1 | Ta, Co, Th ,Rh , Fe, U |

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

November 18, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **November 18, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Supervisor, Product Documentation



Certificate Approved By:

Michael Booth
Director, Technical



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code: Multi Analyte Custom Grade Solution
 Catalog Number: QCP-QCS-4
 Lot Number: R2-MEB695951
 Matrix: 7% (v/v) HNO3
 Value / Analyte(s): 5 µg/mL ea:
 Mercury

Second Source: Whenever possible, this solution was manufactured from a second set of concentrates in our manufacturing facility.

3.0 CERTIFIED VALUES AND UNCERTAINTIES

| ANALYTE | CERTIFIED VALUE | ANALYTE | CERTIFIED VALUE |
|-------------|---------------------|---------|-----------------|
| Mercury, Hg | 5.011 ± 0.023 µg/mL | | |

Density: 1.035 g/mL (measured at 20 ± 4 °C)

Assay Information:

| ANALYTE | METHOD | NIST SRM# | SRM LOT# |
|---------|------------|-----------|--------------|
| Hg | ICP Assay | 3133 | 061204 |
| Hg | EDTA | 928 | 928 |
| Hg | Calculated | | See Sec. 4.2 |

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{char i}$
 w_i = the weighting factors for each method calculated using the inverse square of the variance:
 $w_i = (1/u_{char i}^2) / (\sum(1/u_{char i}^2))$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k(u^2_{char} + u^2_{bb} + u^2_{Its} + u^2_{ts})^{1/2}$$

k = coverage factor = 2
 u_{char} = $[\sum(w_i)^2(u_{char i})^2]^{1/2}$ where $u_{char i}$ are the errors from each characterization method
 u_{bb} = bottle to bottle homogeneity standard uncertainty
 u_{Its} = long term stability standard uncertainty (storage)
 u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a)(u_{char a})$$

X_a = mean of Assay Method A with
 $u_{char a}$ = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k(u^2_{char a} + u^2_{bb} + u^2_{Its} + u^2_{ts})^{1/2}$$

k = coverage factor = 2
 $u_{char a}$ = the errors from characterization
 u_{bb} = bottle to bottle homogeneity standard uncertainty
 u_{Its} = long term stability standard uncertainty (storage)
 u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

August 20, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **August 20, 2024**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director





Form I
INORGANIC ANALYSIS DATA SHEET
SM 2540 G-97

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| LDW23-SC1164 |
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Laboratory: Analytical Resources, LLC

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Matrix: Sediment Laboratory ID: 23A0180-01 D SDG: 23A0180

Sampled: 01/10/23 08:05 Prepared: 01/11/23 10:31 File ID:

% Solids: 54.45 Preparation: No Prep Wet Chem Analyzed: 01/11/23 10:32

Batch: BLA0251 Sequence: Initial/Final: 5 g Wet / 5 g

Instrument: BAL2 Calibration:

| CAS NO. | Analyte | Concentration (%) | Dilution Factor | MDL | MRL | Q |
|---------|--------------|-------------------|-----------------|------|------|---|
| | Total Solids | 54.45 | 1 | 0.04 | 0.04 | |



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| LDW23-SC1164-FD |
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Laboratory: Analytical Resources, LLC

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Matrix: Sediment Laboratory ID: 23A0180-02 D SDG: 23A0180

Sampled: 01/10/23 08:05 Prepared: 01/11/23 10:31 File ID:

% Solids: 54.76 Preparation: No Prep Wet Chem Analyzed: 01/11/23 10:32

Batch: BLA0251 Sequence:

Instrument: BAL2 Calibration: 5 g Wet / 5 g

| CAS NO. | Analyte | Concentration (%) | Dilution Factor | MDL | MRL | Q |
|---------|--------------|-------------------|-----------------|------|------|---|
| | Total Solids | 54.76 | 1 | 0.04 | 0.04 | |



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| LDW23-SC1158 |
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Laboratory: Analytical Resources, LLC

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Matrix: Sediment Laboratory ID: 23A0180-03 D SDG: 23A0180

Sampled: 01/10/23 08:33 Prepared: 01/11/23 10:31 File ID:

% Solids: 54.78 Preparation: No Prep Wet Chem Analyzed: 01/11/23 10:32

Batch: BLA0251 Sequence:

Instrument: BAL2 Calibration: 5 g Wet / 5 g

| CAS NO. | Analyte | Concentration (%) | Dilution Factor | MDL | MRL | Q |
|---------|--------------|-------------------|-----------------|------|------|---|
| | Total Solids | 54.78 | 1 | 0.04 | 0.04 | |



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| LDW23-SC1151 |
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Laboratory: Analytical Resources, LLC
 Client: Anchor QEA, LLC
 Project: AOC5 MR Phase 1
 Matrix: Sediment Laboratory ID: 23A0180-04 D SDG: 23A0180
 Sampled: 01/10/23 09:07 Prepared: 01/11/23 10:31 File ID:
 % Solids: 55.59 Preparation: No Prep Wet Chem Analyzed: 01/11/23 10:32
 Batch: BLA0251 Sequence:
 Instrument: BAL2 Calibration:

| CAS NO. | Analyte | Concentration (%) | Dilution Factor | MDL | MRL | Q |
|---------|--------------|-------------------|-----------------|------|------|---|
| | Total Solids | 55.59 | 1 | 0.04 | 0.04 | |



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| LDW23-SC1145 |
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Laboratory: Analytical Resources, LLC

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Matrix: Sediment Laboratory ID: 23A0180-05 C SDG: 23A0180

Sampled: 01/10/23 09:39 Prepared: 01/11/23 10:31 File ID:

% Solids: 55.33 Preparation: No Prep Wet Chem Analyzed: 01/11/23 10:32

Batch: BLA0251 Sequence:

Instrument: BAL2 Calibration: 5 g Wet / 5 g

| CAS NO. | Analyte | Concentration (%) | Dilution Factor | MDL | MRL | Q |
|---------|--------------|-------------------|-----------------|------|------|---|
| | Total Solids | 55.33 | 1 | 0.04 | 0.04 | |



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| LDW23-SC1139 |
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Laboratory: Analytical Resources, LLC
 Client: Anchor QEA, LLC
 Project: AOC5 MR Phase 1
 Matrix: Sediment Laboratory ID: 23A0180-06 C SDG: 23A0180
 Sampled: 01/10/23 10:10 Prepared: 01/11/23 10:31 File ID:
 % Solids: 57.39 Preparation: No Prep Wet Chem Analyzed: 01/11/23 10:32
 Batch: BLA0251 Sequence:
 Instrument: BAL2 Calibration:

| CAS NO. | Analyte | Concentration (%) | Dilution Factor | MDL | MRL | Q |
|---------|--------------|-------------------|-----------------|------|------|---|
| | Total Solids | 57.39 | 1 | 0.04 | 0.04 | |



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| LDW23-SC1066 |
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Laboratory: Analytical Resources, LLC

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Matrix: Sediment Laboratory ID: 23A0180-07 C SDG: 23A0180

Sampled: 01/10/23 11:08 Prepared: 01/11/23 10:31 File ID:

% Solids: 52.46 Preparation: No Prep Wet Chem Analyzed: 01/11/23 10:32

Batch: BLA0251 Sequence:

Instrument: BAL2 Calibration: 5 g Wet / 5 g

| CAS NO. | Analyte | Concentration (%) | Dilution Factor | MDL | MRL | Q |
|---------|--------------|-------------------|-----------------|------|------|---|
| | Total Solids | 52.46 | 1 | 0.04 | 0.04 | |



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| LDW23-SC1061 |
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Laboratory: Analytical Resources, LLC

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Matrix: Sediment Laboratory ID: 23A0180-08 C SDG: 23A0180

Sampled: 01/10/23 10:45 Prepared: 01/11/23 10:31 File ID:

% Solids: 51.64 Preparation: No Prep Wet Chem Analyzed: 01/11/23 10:32

Batch: BLA0251 Sequence:

Instrument: BAL2 Calibration: 5 g Wet / 5 g

| CAS NO. | Analyte | Concentration (%) | Dilution Factor | MDL | MRL | Q |
|---------|--------------|-------------------|-----------------|------|------|---|
| | Total Solids | 51.64 | 1 | 0.04 | 0.04 | |



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| LDW23-SC1117 |
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Laboratory: Analytical Resources, LLC

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Matrix: Sediment Laboratory ID: 23A0180-09 C SDG: 23A0180

Sampled: 01/10/23 11:35 Prepared: 01/11/23 10:31 File ID:

% Solids: 55.31 Preparation: No Prep Wet Chem Analyzed: 01/11/23 10:32

Batch: BLA0251 Sequence:

Instrument: BAL2 Calibration: 5 g Wet / 5 g

| CAS NO. | Analyte | Concentration (%) | Dilution Factor | MDL | MRL | Q |
|---------|--------------|-------------------|-----------------|------|------|---|
| | Total Solids | 55.31 | 1 | 0.04 | 0.04 | |



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| LDW23-SC1093 |
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Laboratory: Analytical Resources, LLC

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Matrix: Sediment Laboratory ID: 23A0180-10 C SDG: 23A0180

Sampled: 01/10/23 12:26 Prepared: 01/11/23 10:31 File ID:

% Solids: 54.56 Preparation: No Prep Wet Chem Analyzed: 01/11/23 10:32

Batch: BLA0251 Sequence:

Instrument: BAL2 Calibration: 5 g Wet / 5 g

| CAS NO. | Analyte | Concentration (%) | Dilution Factor | MDL | MRL | Q |
|---------|--------------|-------------------|-----------------|------|------|---|
| | Total Solids | 54.56 | 1 | 0.04 | 0.04 | |



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| LDW23-SC1094 |
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Laboratory: Analytical Resources, LLC

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Matrix: Sediment Laboratory ID: 23A0180-11 C SDG: 23A0180

Sampled: 01/10/23 12:51 Prepared: 01/11/23 10:31 File ID:

% Solids: 54.91 Preparation: No Prep Wet Chem Analyzed: 01/11/23 10:32

Batch: BLA0251 Sequence:

Instrument: BAL2 Calibration: 5 g Wet / 5 g

| CAS NO. | Analyte | Concentration (%) | Dilution Factor | MDL | MRL | Q |
|---------|--------------|-------------------|-----------------|------|------|---|
| | Total Solids | 54.91 | 1 | 0.04 | 0.04 | |



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| LDW23-SC1103 |
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Laboratory: Analytical Resources, LLC
 Client: Anchor QEA, LLC
 Project: AOC5 MR Phase 1
 Matrix: Sediment Laboratory ID: 23A0180-12 C SDG: 23A0180
 Sampled: 01/10/23 13:23 Prepared: 01/11/23 10:31 File ID:
 % Solids: 48.36 Preparation: No Prep Wet Chem Analyzed: 01/11/23 10:32
 Batch: BLA0251 Sequence:
 Instrument: BAL2 Calibration:

| CAS NO. | Analyte | Concentration (%) | Dilution Factor | MDL | MRL | Q |
|---------|--------------|-------------------|-----------------|------|------|---|
| | Total Solids | 48.36 | 1 | 0.04 | 0.04 | |



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INORGANIC ANALYSIS DATA SHEET
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| LDW23-SC1100 |
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Laboratory: Analytical Resources, LLC

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Matrix: Sediment Laboratory ID: 23A0180-13 C SDG: 23A0180

Sampled: 01/10/23 13:53 Prepared: 01/11/23 10:31 File ID:

% Solids: 50.11 Preparation: No Prep Wet Chem Analyzed: 01/11/23 10:32

Batch: BLA0251 Sequence:

Instrument: BAL2 Calibration: 5 g Wet / 5 g

| CAS NO. | Analyte | Concentration (%) | Dilution Factor | MDL | MRL | Q |
|---------|--------------|-------------------|-----------------|------|------|---|
| | Total Solids | 50.11 | 1 | 0.04 | 0.04 | |



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| LDW23-SC1101 |
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Laboratory: Analytical Resources, LLC

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Matrix: Sediment Laboratory ID: 23A0180-14 C SDG: 23A0180

Sampled: 01/10/23 14:13 Prepared: 01/11/23 10:31 File ID:

% Solids: 66.40 Preparation: No Prep Wet Chem Analyzed: 01/11/23 10:32

Batch: BLA0251 Sequence:

Instrument: BAL2 Calibration: 5 g Wet / 5 g

| CAS NO. | Analyte | Concentration (%) | Dilution Factor | MDL | MRL | Q |
|---------|--------------|-------------------|-----------------|------|------|---|
| | Total Solids | 66.40 | 1 | 0.04 | 0.04 | |



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| LDW23-SC1096 |
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Laboratory: Analytical Resources, LLC

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Matrix: Sediment Laboratory ID: 23A0180-15 C SDG: 23A0180

Sampled: 01/10/23 15:24 Prepared: 01/11/23 10:31 File ID:

% Solids: 42.76 Preparation: No Prep Wet Chem Analyzed: 01/11/23 10:32

Batch: BLA0251 Sequence:

Instrument: BAL2 Calibration: 5 g Wet / 5 g

| CAS NO. | Analyte | Concentration (%) | Dilution Factor | MDL | MRL | Q |
|---------|--------------|-------------------|-----------------|------|------|---|
| | Total Solids | 42.76 | 1 | 0.04 | 0.04 | |



PREPARATION BATCH SUMMARY

SM 2540 G-97

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Batch: BLA0251 Batch Matrix: Solid

Preparation: No Prep Wet Chem

| SAMPLE NAME | LAB SAMPLE ID | LAB FILE ID | DATE PREPARED | OBSERVATIONS |
|-----------------|---------------|-------------|----------------|--------------|
| LDW23-SC1164 | 23A0180-01 | | 01/11/23 10:31 | |
| LDW23-SC1164-FD | 23A0180-02 | | 01/11/23 10:31 | |
| LDW23-SC1158 | 23A0180-03 | | 01/11/23 10:31 | |
| LDW23-SC1151 | 23A0180-04 | | 01/11/23 10:31 | |
| LDW23-SC1145 | 23A0180-05 | | 01/11/23 10:31 | |
| LDW23-SC1139 | 23A0180-06 | | 01/11/23 10:31 | |
| LDW23-SC1066 | 23A0180-07 | | 01/11/23 10:31 | |
| LDW23-SC1061 | 23A0180-08 | | 01/11/23 10:31 | |
| LDW23-SC1117 | 23A0180-09 | | 01/11/23 10:31 | |
| LDW23-SC1093 | 23A0180-10 | | 01/11/23 10:31 | |
| LDW23-SC1094 | 23A0180-11 | | 01/11/23 10:31 | |
| LDW23-SC1103 | 23A0180-12 | | 01/11/23 10:31 | |
| LDW23-SC1100 | 23A0180-13 | | 01/11/23 10:31 | |
| LDW23-SC1101 | 23A0180-14 | | 01/11/23 10:31 | |
| LDW23-SC1096 | 23A0180-15 | | 01/11/23 10:31 | |
| Blank | BLA0251-BLK1 | | 01/11/23 10:31 | |
| LDW23-SC1164 | BLA0251-DUP1 | | 01/11/23 10:31 | |
| LDW23-SC1164 | BLA0251-DUP2 | | 01/11/23 10:31 | |

| TOTAL SOLIDS/VOLATILE SOLIDS (TS / TVS) BENCHSHEET for Solid samples | | | | | | | | | | | Batch: BLA0251 | | | | | |
|--|--------|---------------|---|---------------------|-------|--------------------------|------------|--------|---|---------------------|-----------------------|-----|------------|---------|-------|-------|
| Method: PSEP 1986, SM2540, EPA 160.1 | | | | | | | | | | | Date: 1/11/2023 10:32 | | | | | |
| (dry at 104 (12-24 hr) then combust at 550 (30 min)) | | | | | | | | | | | Analyst: UW | | | | | |
| Instrumentation | | | Drying Ovens: 12 | | | Analytical Balance: BAL2 | | | Muffle Furnace: 2 | | | | | | | |
| Batch drying time | | | TS (%) calculated as: Final dry wt (g) = (Dry Wt - Tare Wt) TS = (Final Dry Wt)/(grams Sample-Tare) | | | Oven Temps, °C | | | TVS (mg/kg dry wt) calculated as: Final ash wt (g) = (min ash wt - tare wt) TVS (mg/kg) = [(Dry wt-Ash wt)/(dry weight)] *1,000,000 if ash wt > dry wt, "Chk for Err" if dry wt-ash wt < 0.001 g, "< (1/dry wt)*1,000,000 | | | | | | | |
| record times as mm/dd/yy hh:mm | | | | | | Start Temp | | | | | | 103 | | | | |
| date/time in oven: 1/11/2023 11:25 | | | | | | Dry Cycle 1 | | | | | | 103 | | | | |
| date/time out: 1/12/2023 16:00 | | | | | | Dry Cycle 2 | | | | | | | | | | |
| elapsed hrs = 28.6 > 24 hr | | | Dry Cycle 3 | | | | | | | | | | | | | |
| Balance Calibration Check | | | | | | | | | | | | | | | | |
| Record weights to 4 places | | | | | | | | | | | CV-02 | | CV-02 | | CV-02 | |
| Cal Weight ID: | | CV-02 | CV-02 | CV-02 | CV-02 | CV-02 | | | | | | | | | | |
| Date & Time: | | 1/11/23 10:40 | 1/11/23 11:05 | 1/13/23 9:20 | | | | | | | | | | | | |
| Cal Wt (g): | | 10.0000 | 10.0000 | 10.0000 | | | | | | | | | | | | |
| | | Cal OK! | Cal OK! | Cal OK! | | | | | | | | | | | | |
| Sample ID | Dish # | Tare Wt. (g) | Dish & Sample (g) | Dry Wt 104C (grams) | | | dry Wt (g) | TS (%) | Notes | ASH WT 550C (grams) | | | Ash Wt (g) | TVS | | Notes |
| | | | | 1 | 2 | 3 | | | | 1 | 2 | 3 | | (mg/kg) | (%) | |
| BLA0251-BLK1 | 18 | 0.8255 | 0.0000 | 0.8255 | | | 0.0000 | 0.00% | | | | | | | | |
| 23A0180-01 | 19 | 0.8135 | 6.8858 | 4.1198 | | | 3.3063 | 54.45% | | | | | | | | |
| BLA0251-DUP1 | 20 | 0.8389 | 7.0932 | 4.2308 | | | 3.3919 | 54.23% | RPD=0.4 | | | | | | | |
| BLA0251-DUP2 | 21 | 0.8187 | 7.6385 | 4.6261 | | | 3.8074 | 55.83% | RSD=1.6 | | | | | | | |
| 23A0180-02 | 22 | 0.8403 | 7.3881 | 4.4260 | | | 3.5857 | 54.76% | | | | | | | | |
| 23A0180-03 | 23 | 0.7951 | 7.7993 | 4.6320 | | | 3.8369 | 54.78% | | | | | | | | |
| 23A0180-04 | 24 | 0.8246 | 8.4410 | 5.0582 | | | 4.2336 | 55.59% | | | | | | | | |
| 23A0180-05 | 25 | 0.7997 | 8.7037 | 5.1726 | | | 4.3729 | 55.33% | | | | | | | | |
| 23A0180-06 | 26 | 0.8302 | 8.7153 | 5.3557 | | | 4.5255 | 57.39% | | | | | | | | |
| 23A0180-07 | 27 | 0.7835 | 8.5215 | 4.8425 | | | 4.0590 | 52.46% | | | | | | | | |
| 23A0180-08 | 28 | 0.7753 | 7.0258 | 4.0031 | | | 3.2278 | 51.64% | | | | | | | | |
| 23A0180-09 | 29 | 0.8246 | 7.8852 | 4.7297 | | | 3.9051 | 55.31% | | | | | | | | |
| 23A0180-10 | 30 | 0.7925 | 9.1761 | 5.3664 | | | 4.5739 | 54.56% | | | | | | | | |
| 23A0180-11 | 31 | 0.7750 | 7.5319 | 4.4854 | | | 3.7104 | 54.91% | | | | | | | | |
| 23A0180-12 | 32 | 0.8221 | 7.6349 | 4.1171 | | | 3.2950 | 48.36% | | | | | | | | |
| 23A0180-13 | 33 | 0.8010 | 7.5083 | 4.1620 | | | 3.3610 | 50.11% | | | | | | | | |
| 23A0180-14 | 34 | 0.8274 | 9.3046 | 6.4559 | | | 5.6285 | 66.40% | | | | | | | | |
| 23A0180-15 | 35 | 0.7936 | 7.8302 | 3.8026 | | | 3.0090 | 42.76% | | | | | | | | |



Form I
METHOD BLANK DATA SHEET
SM 2540 G-97
TotalAnalytes

| |
|--------------|
| Blank |
|--------------|

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Batch: BLA0251

Laboratory ID: BLA0251-BLK1

Prepared: 01/11/23 10:31

Matrix: Solid

Preparation: No Prep Wet Chem

Analyzed: 01/11/23 10:32

Sequence:

Calibration:

Instrument: BAL2

| CAS NO. | Analyte | Concentration (%) | Dilution Factor | MDL | MRL | Q |
|---------|--------------|-------------------|-----------------|------|------|---|
| | Total Solids | ND | 1 | 0.04 | 0.04 | U |



DUPLICATES
SM 2540 G-97

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Matrix: Solid

Laboratory ID: BLA0251-DUP1

Batch: BLA0251

Lab Source ID: 23A0180-01

Preparation: No Prep Wet Chem

Initial/Final: 5 g / 5 g

Source Sample Name: LDW23-SC1164

% Solids: 54.45

| ANALYTE | CONTROL LIMIT | SAMPLE CONCENTRATION | DUPLICATE CONCENTRATION | RPD % | Q |
|--------------|---------------|----------------------|-------------------------|-------|---|
| Total Solids | 20 | 54.45 | 54.23 | 0.397 | |

*: Values outside of QC limits

L: Analyte concentration is <=5 times the reporting limit and the replicate control limit defaults to Dup = +/- RL instead of 20% RPD



DUPLICATES
SM 2540 G-97

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Matrix: Solid

Laboratory ID: BLA0251-DUP2

Batch: BLA0251

Lab Source ID: 23A0180-01

Preparation: No Prep Wet Chem

Initial/Final: 5 g / 5 g

Source Sample Name: LDW23-SC1164

% Solids: 54.45

| ANALYTE | CONTROL LIMIT | SAMPLE CONCENTRATION | DUPLICATE CONCENTRATION | RPD % | Q |
|--------------|---------------|----------------------|-------------------------|-------|---|
| Total Solids | 20 | 54.45 | 55.83 | 2.50 | |

*: Values outside of QC limits

L: Analyte concentration is ≤ 5 times the reporting limit and the replicate control limit defaults to Dup = +/- RL instead of 20% RPD



HOLDING TIME SUMMARY

Analysis: SM 2540 G-97

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

| Sample Name | Date Collected | Date Received | Date Prepared | Days to Prep | Max Days to Prep | Date Analyzed | Days to Analysis | Max Days to Analysis | Q |
|-------------------------------|-------------------|-------------------|-------------------|--------------|------------------|-------------------|------------------|----------------------|---|
| LDW23-SC1164 23A0180-01 | 01/10/23 08:05 | 01/10/23 17:10 | 01/11/23 10:31 | 1 | 180 | 01/11/23 10:32 | 1 | 180 | |
| LDW23-SC1164-FD 23A0180-02 | 01/10/23 08:05 | 01/10/23 17:10 | 01/11/23 10:31 | 1 | 180 | 01/11/23 10:32 | 1 | 180 | |
| LDW23-SC1158 23A0180-03 | 01/10/23 08:33 | 01/10/23 17:10 | 01/11/23 10:31 | 1 | 180 | 01/11/23 10:32 | 1 | 180 | |
| LDW23-SC1151 23A0180-04 | 01/10/23 09:07 | 01/10/23 17:10 | 01/11/23 10:31 | 1 | 180 | 01/11/23 10:32 | 1 | 180 | |
| LDW23-SC1145 23A0180-05 | 01/10/23 09:39 | 01/10/23 17:10 | 01/11/23 10:31 | 1 | 180 | 01/11/23 10:32 | 1 | 180 | |
| LDW23-SC1139 23A0180-06 | 01/10/23 10:10 | 01/10/23 17:10 | 01/11/23 10:31 | 1 | 180 | 01/11/23 10:32 | 1 | 180 | |
| LDW23-SC1066 23A0180-07 | 01/10/23 11:08 | 01/10/23 17:10 | 01/11/23 10:31 | 0 | 180 | 01/11/23 10:32 | 1 | 180 | |
| LDW23-SC1061 23A0180-08 | 01/10/23 10:45 | 01/10/23 17:10 | 01/11/23 10:31 | 0 | 180 | 01/11/23 10:32 | 1 | 180 | |
| LDW23-SC1117 23A0180-09 | 01/10/23 11:35 | 01/10/23 17:10 | 01/11/23 10:31 | 0 | 180 | 01/11/23 10:32 | 1 | 180 | |
| LDW23-SC1093 23A0180-10 | 01/10/23 12:26 | 01/10/23 17:10 | 01/11/23 10:31 | 0 | 180 | 01/11/23 10:32 | 1 | 180 | |
| LDW23-SC1094 23A0180-11 | 01/10/23 12:51 | 01/10/23 17:10 | 01/11/23 10:31 | 0 | 180 | 01/11/23 10:32 | 1 | 180 | |
| LDW23-SC1103 23A0180-12 | 01/10/23 13:23 | 01/10/23 17:10 | 01/11/23 10:31 | 0 | 180 | 01/11/23 10:32 | 1 | 180 | |
| LDW23-SC1100 23A0180-13 | 01/10/23 13:53 | 01/10/23 17:10 | 01/11/23 10:31 | 0 | 180 | 01/11/23 10:32 | 1 | 180 | |
| LDW23-SC1101 23A0180-14 | 01/10/23 14:13 | 01/10/23 17:10 | 01/11/23 10:31 | 0 | 180 | 01/11/23 10:32 | 1 | 180 | |
| LDW23-SC1096 23A0180-15 | 01/10/23 15:24 | 01/10/23 17:10 | 01/11/23 10:31 | 0 | 180 | 01/11/23 10:32 | 1 | 180 | |
| Duplicate BLA0251-DUP1 | 01/10/23 08:05 | 01/10/23 17:10 | 01/11/23 10:31 | 1 | 180 | 01/11/23 10:32 | 1 | 180 | |
| Duplicate BLA0251-DUP2 | 01/10/23 08:05 | 01/10/23 17:10 | 01/11/23 10:31 | 1 | 180 | 01/11/23 10:32 | 1 | 180 | |

* Indicates hold time exceedance.



Analytical Resources, LLC
Analytical Chemists and Consultants

METHOD DETECTION AND REPORTING LIMITS

SM 2540 G-97

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Matrix: Solid

Instrument:

| Analyte | MDL | RL | Units |
|----------------|------------|-----------|--------------|
| Total Solids | 0.04 | 0.04 | % |



Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

| |
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| LDW23-SC1164 |
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Laboratory: Analytical Resources, LLC
 Client: Anchor QEA, LLC
 Project: AOC5 MR Phase 1
 Matrix: Sediment Laboratory ID: 23A0180-01 D SDG: 23A0180
 Sampled: 01/10/23 08:05 Prepared: 01/12/23 08:50 File ID: CubeData_01162023@0718-319
 % Solids: 54.45 Preparation: Plumb 1981 Analyzed: 01/14/23 02:42
 Batch: BLA0254 Sequence: SLA0114 Initial/Final: 0.5121 g Wet / 0.5121 g
 Instrument: TOC Cube Calibration: FD00070

| CAS NO. | Analyte | Concentration (% dry) | Dilution Factor | MDL | MRL | Q |
|---------|----------------------|-----------------------|-----------------|------|------|---|
| | Total Organic Carbon | 1.90 | 1 | 0.02 | 0.02 | |



Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

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| LDW23-SC1164-FD |
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Laboratory: Analytical Resources, LLC

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Matrix: Sediment Laboratory ID: 23A0180-02 D SDG: 23A0180

Sampled: 01/10/23 08:05 Prepared: 01/12/23 08:50 File ID: CubeData_01162023@0718-320

% Solids: 54.76 Preparation: Plumb 1981 Analyzed: 01/14/23 03:12

Batch: BLA0254 Sequence: SLA0114 Initial/Final: 0.5021 g Wet / 0.5021 g

Instrument: TOC Cube Calibration: FD00070

| CAS NO. | Analyte | Concentration (% dry) | Dilution Factor | MDL | MRL | Q |
|---------|----------------------|-----------------------|-----------------|------|------|---|
| | Total Organic Carbon | 1.91 | 1 | 0.02 | 0.02 | |



Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

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| LDW23-SC1158 |
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Laboratory: Analytical Resources, LLC
 Client: Anchor QEA, LLC
 Project: AOC5 MR Phase 1
 Matrix: Sediment Laboratory ID: 23A0180-03 D SDG: 23A0180
 Sampled: 01/10/23 08:33 Prepared: 01/12/23 08:50 File ID: CubeData_01162023@0718-321
 % Solids: 54.78 Preparation: Plumb 1981 Analyzed: 01/14/23 03:43
 Batch: BLA0254 Sequence: SLA0114 Initial/Final: 0.5304 g Wet / 0.5304 g
 Instrument: TOC Cube Calibration: FD00070

| CAS NO. | Analyte | Concentration (% dry) | Dilution Factor | MDL | MRL | Q |
|---------|----------------------|-----------------------|-----------------|------|------|---|
| | Total Organic Carbon | 2.11 | 1 | 0.02 | 0.02 | |



Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

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| LDW23-SC1151 |
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Laboratory: Analytical Resources, LLC
 Client: Anchor QEA, LLC
 Project: AOC5 MR Phase 1
 Matrix: Sediment Laboratory ID: 23A0180-04 D SDG: 23A0180
 Sampled: 01/10/23 09:07 Prepared: 01/12/23 08:50 File ID: CubeData_01162023@0718-001
 % Solids: 55.59 Preparation: Plumb 1981 Analyzed: 01/14/23 05:14
 Batch: BLA0254 Sequence: SLA0114 Initial/Final: 0.5185 g Wet / 0.5185 g
 Instrument: TOC Cube Calibration: FD00070

| CAS NO. | Analyte | Concentration (% dry) | Dilution Factor | MDL | MRL | Q |
|---------|----------------------|-----------------------|-----------------|------|------|---|
| | Total Organic Carbon | 1.69 | 1 | 0.02 | 0.02 | |



Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

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| LDW23-SC1145 |
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Laboratory: Analytical Resources, LLC
 Client: Anchor QEA, LLC
 Project: AOC5 MR Phase 1
 Matrix: Sediment Laboratory ID: 23A0180-05 C SDG: 23A0180
 Sampled: 01/10/23 09:39 Prepared: 01/12/23 08:50 File ID: CubeData_01162023@0718-007
 % Solids: 55.33 Preparation: Plumb 1981 Analyzed: 01/14/23 05:45
 Batch: BLA0254 Sequence: SLA0114 Initial/Final: 0.5195 g Wet / 0.5195 g
 Instrument: TOC Cube Calibration: FD00070

| CAS NO. | Analyte | Concentration (% dry) | Dilution Factor | MDL | MRL | Q |
|---------|----------------------|-----------------------|-----------------|------|------|---|
| | Total Organic Carbon | 1.92 | 1 | 0.02 | 0.02 | |



Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

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| LDW23-SC1139 |
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Laboratory: Analytical Resources, LLC
 Client: Anchor QEA, LLC
 Project: AOC5 MR Phase 1
 Matrix: Sediment Laboratory ID: 23A0180-06 C SDG: 23A0180
 Sampled: 01/10/23 10:10 Prepared: 01/12/23 08:50 File ID: CubeData_01162023@0718-013
 % Solids: 57.39 Preparation: Plumb 1981 Analyzed: 01/14/23 06:15
 Batch: BLA0254 Sequence: SLA0114 Initial/Final: 0.5561 g Wet / 0.5561 g
 Instrument: TOC Cube Calibration: FD00070

| CAS NO. | Analyte | Concentration (% dry) | Dilution Factor | MDL | MRL | Q |
|---------|----------------------|-----------------------|-----------------|------|------|---|
| | Total Organic Carbon | 1.75 | 1 | 0.02 | 0.02 | |



Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

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| LDW23-SC1066 |
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Laboratory: Analytical Resources, LLC
 Client: Anchor QEA, LLC
 Project: AOC5 MR Phase 1
 Matrix: Sediment Laboratory ID: 23A0180-07 C SDG: 23A0180
 Sampled: 01/10/23 11:08 Prepared: 01/12/23 08:50 File ID: CubeData_01162023@0718-020
 % Solids: 52.46 Preparation: Plumb 1981 Analyzed: 01/14/23 06:45
 Batch: BLA0254 Sequence: SLA0114 Initial/Final: 0.2243 g Wet / 0.2243 g
 Instrument: TOC Cube Calibration: FD00070

| CAS NO. | Analyte | Concentration (% dry) | Dilution Factor | MDL | MRL | Q |
|---------|----------------------|-----------------------|-----------------|------|------|---|
| | Total Organic Carbon | 2.55 | 1 | 0.02 | 0.02 | |



Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

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| LDW23-SC1061 |
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Laboratory: Analytical Resources, LLC

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Matrix: Sediment Laboratory ID: 23A0180-08 C SDG: 23A0180

Sampled: 01/10/23 10:45 Prepared: 01/12/23 08:50 File ID: CubeData_01162023@0718-028

% Solids: 51.64 Preparation: Plumb 1981 Analyzed: 01/14/23 07:16

Batch: BLA0254 Sequence: SLA0114 Initial/Final: 0.5123 g Wet / 0.5123 g

Instrument: TOC Cube Calibration: FD00070

| CAS NO. | Analyte | Concentration (% dry) | Dilution Factor | MDL | MRL | Q |
|---------|----------------------|-----------------------|-----------------|------|------|---|
| | Total Organic Carbon | 2.58 | 1 | 0.02 | 0.02 | |



Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

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| LDW23-SC1117 |
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Laboratory: Analytical Resources, LLC

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Matrix: Sediment Laboratory ID: 23A0180-09 C SDG: 23A0180

Sampled: 01/10/23 11:35 Prepared: 01/12/23 08:50 File ID: CubeData_01162023@0718-034

% Solids: 55.31 Preparation: Plumb 1981 Analyzed: 01/14/23 07:46

Batch: BLA0254 Sequence: SLA0114 Initial/Final: 0.5164 g Wet / 0.5164 g

Instrument: TOC Cube Calibration: FD00070

| CAS NO. | Analyte | Concentration (% dry) | Dilution Factor | MDL | MRL | Q |
|---------|----------------------|-----------------------|-----------------|------|------|---|
| | Total Organic Carbon | 2.15 | 1 | 0.02 | 0.02 | |



Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

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| LDW23-SC1093 |
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Laboratory: Analytical Resources, LLC
 Client: Anchor QEA, LLC
 Project: AOC5 MR Phase 1
 Matrix: Sediment Laboratory ID: 23A0180-10 C SDG: 23A0180
 Sampled: 01/10/23 12:26 Prepared: 01/12/23 08:50 File ID: CubeData_01162023@0718-040
 % Solids: 54.56 Preparation: Plumb 1981 Analyzed: 01/14/23 08:16
 Batch: BLA0254 Sequence: SLA0114 Initial/Final: 0.5061 g Wet / 0.5061 g
 Instrument: TOC Cube Calibration: FD00070

| CAS NO. | Analyte | Concentration (% dry) | Dilution Factor | MDL | MRL | Q |
|---------|----------------------|-----------------------|-----------------|------|------|---|
| | Total Organic Carbon | 1.88 | 1 | 0.02 | 0.02 | |



Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

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| LDW23-SC1094 |
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Laboratory: Analytical Resources, LLC

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Matrix: Sediment Laboratory ID: 23A0180-11 C SDG: 23A0180

Sampled: 01/10/23 12:51 Prepared: 01/12/23 08:50 File ID: CubeData_01162023@0718-073

% Solids: 54.91 Preparation: Plumb 1981 Analyzed: 01/14/23 11:18

Batch: BLA0254 Sequence: SLA0114 Initial/Final: 0.5922 g Wet / 0.5922 g

Instrument: TOC Cube Calibration: FD00070

| CAS NO. | Analyte | Concentration (% dry) | Dilution Factor | MDL | MRL | Q |
|---------|----------------------|-----------------------|-----------------|------|------|---|
| | Total Organic Carbon | 2.05 | 1 | 0.02 | 0.02 | |



Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

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| LDW23-SC1103 |
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Laboratory: Analytical Resources, LLC
 Client: Anchor QEA, LLC
 Project: AOC5 MR Phase 1
 Matrix: Sediment Laboratory ID: 23A0180-12 C SDG: 23A0180
 Sampled: 01/10/23 13:23 Prepared: 01/12/23 08:50 File ID: CubeData_01162023@0718-080
 % Solids: 48.36 Preparation: Plumb 1981 Analyzed: 01/14/23 11:49
 Batch: BLA0254 Sequence: SLA0114 Initial/Final: 0.5186 g Wet / 0.5186 g
 Instrument: TOC Cube Calibration: FD00070

| CAS NO. | Analyte | Concentration (% dry) | Dilution Factor | MDL | MRL | Q |
|---------|----------------------|-----------------------|-----------------|------|------|---|
| | Total Organic Carbon | 2.81 | 1 | 0.02 | 0.02 | |



Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

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| LDW23-SC1100 |
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Laboratory: Analytical Resources, LLC
 Client: Anchor QEA, LLC
 Project: AOC5 MR Phase 1
 Matrix: Sediment Laboratory ID: 23A0180-13 C SDG: 23A0180
 Sampled: 01/10/23 13:53 Prepared: 01/12/23 08:50 File ID: CubeData_01162023@0718-085
 % Solids: 50.11 Preparation: Plumb 1981 Analyzed: 01/14/23 12:19
 Batch: BLA0254 Sequence: SLA0114 Initial/Final: 0.5222 g Wet / 0.5222 g
 Instrument: TOC Cube Calibration: FD00070

| CAS NO. | Analyte | Concentration (% dry) | Dilution Factor | MDL | MRL | Q |
|---------|----------------------|-----------------------|-----------------|------|------|---|
| | Total Organic Carbon | 2.61 | 1 | 0.02 | 0.02 | |



Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

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| LDW23-SC1101 |
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Laboratory: Analytical Resources, LLC

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Matrix: Sediment Laboratory ID: 23A0180-14 C SDG: 23A0180

Sampled: 01/10/23 14:13 Prepared: 01/12/23 08:50 File ID: CubeData_01162023@0718-091

% Solids: 66.40 Preparation: Plumb 1981 Analyzed: 01/14/23 12:50

Batch: BLA0254 Sequence: SLA0114 Initial/Final: 0.5003 g Wet / 0.5003 g

Instrument: TOC Cube Calibration: FD00070

| CAS NO. | Analyte | Concentration (% dry) | Dilution Factor | MDL | MRL | Q |
|---------|----------------------|-----------------------|-----------------|------|------|---|
| | Total Organic Carbon | 1.05 | 1 | 0.02 | 0.02 | |



Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

| |
|--------------|
| LDW23-SC1096 |
|--------------|

Laboratory: Analytical Resources, LLC
 Client: Anchor QEA, LLC
 Project: AOC5 MR Phase 1
 Matrix: Sediment Laboratory ID: 23A0180-15 C SDG: 23A0180
 Sampled: 01/10/23 15:24 Prepared: 01/12/23 08:50 File ID: CubeData_01162023@0718-098
 % Solids: 42.76 Preparation: Plumb 1981 Analyzed: 01/14/23 13:20
 Batch: BLA0254 Sequence: SLA0114 Initial/Final: 0.5301 g Wet / 0.5301 g
 Instrument: TOC Cube Calibration: FD00070

| CAS NO. | Analyte | Concentration (% dry) | Dilution Factor | MDL | MRL | Q |
|---------|----------------------|-----------------------|-----------------|------|------|---|
| | Total Organic Carbon | 2.91 | 1 | 0.02 | 0.02 | |



PREPARATION BATCH SUMMARY

EPA 9060A m

Laboratory: Analytical Resources, LLC SDG: 23A0180
Client: Anchor QEA, LLC Project: AOC5 MR Phase 1
Batch: BLA0254 Batch Matrix: Solid Preparation: Plumb 1981

| SAMPLE NAME | LAB SAMPLE ID | LAB FILE ID | DATE PREPARED | OBSERVATIONS |
|-----------------|---------------|----------------------|----------------|--------------|
| LDW23-SC1164 | 23A0180-01 | eData_01162023@0718- | 01/12/23 08:50 | |
| LDW23-SC1164-FD | 23A0180-02 | eData_01162023@0718- | 01/12/23 08:50 | |
| LDW23-SC1158 | 23A0180-03 | eData_01162023@0718- | 01/12/23 08:50 | |
| LDW23-SC1151 | 23A0180-04 | eData_01162023@0718- | 01/12/23 08:50 | |
| LDW23-SC1145 | 23A0180-05 | eData_01162023@0718- | 01/12/23 08:50 | |
| LDW23-SC1139 | 23A0180-06 | eData_01162023@0718- | 01/12/23 08:50 | |
| LDW23-SC1066 | 23A0180-07 | eData_01162023@0718- | 01/12/23 08:50 | |
| LDW23-SC1061 | 23A0180-08 | eData_01162023@0718- | 01/12/23 08:50 | |
| LDW23-SC1117 | 23A0180-09 | eData_01162023@0718- | 01/12/23 08:50 | |
| LDW23-SC1093 | 23A0180-10 | eData_01162023@0718- | 01/12/23 08:50 | |
| LDW23-SC1094 | 23A0180-11 | eData_01162023@0718- | 01/12/23 08:50 | |
| LDW23-SC1103 | 23A0180-12 | eData_01162023@0718- | 01/12/23 08:50 | |
| LDW23-SC1100 | 23A0180-13 | eData_01162023@0718- | 01/12/23 08:50 | |
| LDW23-SC1101 | 23A0180-14 | eData_01162023@0718- | 01/12/23 08:50 | |
| LDW23-SC1096 | 23A0180-15 | eData_01162023@0718- | 01/12/23 08:50 | |
| Blank | BLA0254-BLK1 | eData_01162023@0718- | 01/12/23 08:50 | |
| LCS | BLA0254-BS1 | eData_01162023@0718- | 01/12/23 08:50 | |
| MRL Check | BLA0254-MRL1 | eData_01162023@0718- | 01/12/23 08:50 | |
| Reference | BLA0254-SRM1 | eData_01162023@0718- | 01/12/23 08:50 | |



Form I
METHOD BLANK DATA SHEET
EPA 9060A m
TotalAnalytes

| |
|-------|
| Blank |
|-------|

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Batch: BLA0254

Laboratory ID: BLA0254-BLK1

Prepared: 01/12/23 08:50

Matrix: Solid

Preparation: Plumb 1981

Analyzed: 01/13/23 20:35

Sequence: SLA0114

Calibration: FD00070

Instrument: TOC Cube

| CAS NO. | Analyte | Concentration (% wet) | Dilution Factor | MDL | MRL | Q |
|---------|----------------------|--------------------------|--------------------|------|------|---|
| | Total Organic Carbon | ND | 1 | 0.02 | 0.02 | U |



LCS / LCS DUPLICATE RECOVERY
EPA 9060A m

| | | | |
|----------------|----------------------------------|----------------|------------------------|
| Laboratory: | <u>Analytical Resources, LLC</u> | SDG: | <u>23A0180</u> |
| Client: | <u>Anchor QEA, LLC</u> | Project: | <u>AOC5 MR Phase 1</u> |
| Matrix: | <u>Solid</u> | Analyzed: | <u>01/13/23 21:06</u> |
| Batch: | <u>BLA0254</u> | Laboratory ID: | <u>BLA0254-BS1</u> |
| Preparation: | <u>Plumb 1981</u> | Sequence Name: | <u>LCS</u> |
| Initial/Final: | <u>0.021 g / 0.021 g</u> | | |

| COMPOUND | SPIKE ADDED (% wet) | LCS CONCENTRATION (% wet) | Q | LCS % REC. # | QC LIMITS REC. |
|----------------------|---------------------|---------------------------|---|--------------|----------------|
| Total Organic Carbon | 44.4 | 45.1 | | 101 | 80 - 120 |

* Indicates values outside of QC limits



ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 9060A m

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Sequence: SKD0371

Instrument: TOC Cube

Calibration: FD00070

| Sample Name | Lab Sample ID | Lab File ID | Matrix | Analysis Date/Time |
|-------------------|---------------|----------------------------|--------|--------------------|
| Cal Standard | SKD0371-CAL1 | CubeData_04272022@1136-001 | NA | 04/26/22 12:30 |
| Cal Standard | SKD0371-CAL2 | CubeData_04272022@1136-002 | NA | 04/26/22 13:00 |
| Cal Standard | SKD0371-CAL3 | CubeData_04272022@1136-003 | NA | 04/26/22 13:30 |
| Cal Standard | SKD0371-CAL4 | CubeData_04272022@1136-004 | NA | 04/26/22 14:00 |
| Cal Standard | SKD0371-CAL5 | CubeData_04272022@1136-005 | NA | 04/26/22 14:30 |
| Cal Standard | SKD0371-CAL6 | CubeData_04272022@1136-006 | NA | 04/26/22 15:00 |
| Cal Standard | SKD0371-CAL7 | CubeData_04272022@1136-007 | NA | 04/26/22 15:30 |
| Cal Standard | SKD0371-CAL8 | CubeData_04272022@1136-008 | NA | 04/26/22 16:00 |
| Cal Standard | SKD0371-CAL9 | CubeData_04272022@1136-009 | NA | 04/26/22 16:30 |
| Cal Standard | SKD0371-CALA | CubeData_04272022@1136-010 | NA | 04/26/22 17:00 |
| Cal Standard | SKD0371-CALB | CubeData_04272022@1136-011 | NA | 04/26/22 17:30 |
| Cal Standard | SKD0371-CALC | CubeData_04272022@1136-012 | NA | 04/26/22 18:00 |
| Cal Standard | SKD0371-CALD | CubeData_04272022@1136-013 | NA | 04/26/22 18:30 |
| Cal Standard | SKD0371-CALE | CubeData_04272022@1136-014 | NA | 04/26/22 19:00 |
| Cal Standard | SKD0371-CALF | CubeData_04272022@1136-015 | NA | 04/26/22 19:31 |
| Cal Standard | SKD0371-CALG | CubeData_04272022@1136-016 | NA | 04/26/22 20:01 |
| Cal Standard | SKD0371-CALH | CubeData_04272022@1136-017 | NA | 04/26/22 20:31 |
| Cal Standard | SKD0371-CALI | CubeData_04272022@1136-018 | NA | 04/26/22 21:01 |
| Cal Standard | SKD0371-CALJ | CubeData_04272022@1136-019 | NA | 04/26/22 21:31 |
| Cal Standard | SKD0371-CALK | CubeData_04272022@1136-020 | NA | 04/26/22 22:01 |
| Initial Cal Check | SKD0371-ICV1 | CubeData_04272022@1136-027 | NA | 04/27/22 02:03 |
| Initial Cal Blank | SKD0371-ICB1 | CubeData_04272022@1136-028 | NA | 04/27/22 02:33 |
| Cal Standard | SKD0371-CALL | CubeData_04272022@1136-021 | NA | 04/27/22 11:08 |
| Cal Standard | SKD0371-CALM | CubeData_04272022@1136-022 | NA | 04/27/22 11:08 |
| Cal Standard | SKD0371-CALN | CubeData_04272022@1136-023 | NA | 04/27/22 11:09 |
| Cal Standard | SKD0371-CALO | CubeData_04272022@1136-024 | NA | 04/27/22 11:09 |



ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 9060A m

| | | | |
|-------------|----------------------------------|--------------|------------------------|
| Laboratory: | <u>Analytical Resources, LLC</u> | SDG: | <u>23A0180</u> |
| Client: | <u>Anchor QEA, LLC</u> | Project: | <u>AOC5 MR Phase 1</u> |
| Sequence: | <u>SLA0114</u> | Instrument: | <u>TOC Cube</u> |
| | | Calibration: | <u>FD00070</u> |

| Sample Name | Lab Sample ID | Lab File ID | Matrix | Analysis Date/Time |
|-------------------|---------------|----------------------------|--------|--------------------|
| Initial Cal Check | SLA0114-ICV1 | CubeData_01162023@0718-019 | NA | 01/12/23 09:29 |
| Initial Cal Blank | SLA0114-ICB1 | CubeData_01162023@0718-027 | NA | 01/12/23 10:00 |
| Calibration Check | SLA0114-CCV1 | CubeData_01162023@0718-092 | NA | 01/12/23 15:34 |
| Calibration Blank | SLA0114-CCB1 | CubeData_01162023@0718-099 | NA | 01/12/23 16:04 |
| Calibration Check | SLA0114-CCV2 | CubeData_01162023@0718-172 | NA | 01/12/23 21:40 |
| Calibration Blank | SLA0114-CCB2 | CubeData_01162023@0718-179 | NA | 01/12/23 22:11 |
| Calibration Check | SLA0114-CCV3 | CubeData_01162023@0718-248 | NA | 01/13/23 03:47 |
| Calibration Blank | SLA0114-CCB3 | CubeData_01162023@0718-254 | NA | 01/13/23 04:18 |
| Calibration Check | SLA0114-CCV4 | CubeData_01162023@0718-286 | NA | 01/13/23 09:54 |
| Calibration Blank | SLA0114-CCB4 | CubeData_01162023@0718-287 | NA | 01/13/23 10:24 |
| Calibration Check | SLA0114-CCV5 | CubeData_01162023@0718-298 | NA | 01/13/23 16:00 |
| Calibration Blank | SLA0114-CCB5 | CubeData_01162023@0718-299 | NA | 01/13/23 16:30 |
| MRL Check | BLA0254-MRL1 | CubeData_01162023@0718-306 | Solid | 01/13/23 20:04 |
| Blank | BLA0254-BLK1 | CubeData_01162023@0718-307 | Solid | 01/13/23 20:35 |
| LCS | BLA0254-BS1 | CubeData_01162023@0718-308 | Solid | 01/13/23 21:06 |
| Reference | BLA0254-SRM1 | CubeData_01162023@0718-309 | Solid | 01/13/23 21:36 |
| Calibration Check | SLA0114-CCV6 | CubeData_01162023@0718-310 | NA | 01/13/23 22:06 |
| Calibration Blank | SLA0114-CCB6 | CubeData_01162023@0718-311 | NA | 01/13/23 22:37 |
| LDW23-SC1164 | 23A0180-01 | CubeData_01162023@0718-319 | Solid | 01/14/23 02:42 |
| LDW23-SC1164-FD | 23A0180-02 | CubeData_01162023@0718-320 | Solid | 01/14/23 03:12 |
| LDW23-SC1158 | 23A0180-03 | CubeData_01162023@0718-321 | Solid | 01/14/23 03:43 |
| Calibration Check | SLA0114-CCV7 | CubeData_01162023@0718-322 | NA | 01/14/23 04:13 |
| Calibration Blank | SLA0114-CCB7 | CubeData_01162023@0718-323 | NA | 01/14/23 04:44 |
| LDW23-SC1151 | 23A0180-04 | CubeData_01162023@0718-001 | Solid | 01/14/23 05:14 |
| LDW23-SC1145 | 23A0180-05 | CubeData_01162023@0718-007 | Solid | 01/14/23 05:45 |
| LDW23-SC1139 | 23A0180-06 | CubeData_01162023@0718-013 | Solid | 01/14/23 06:15 |
| LDW23-SC1066 | 23A0180-07 | CubeData_01162023@0718-020 | Solid | 01/14/23 06:45 |
| LDW23-SC1061 | 23A0180-08 | CubeData_01162023@0718-028 | Solid | 01/14/23 07:16 |
| LDW23-SC1117 | 23A0180-09 | CubeData_01162023@0718-034 | Solid | 01/14/23 07:46 |



ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 9060A m

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

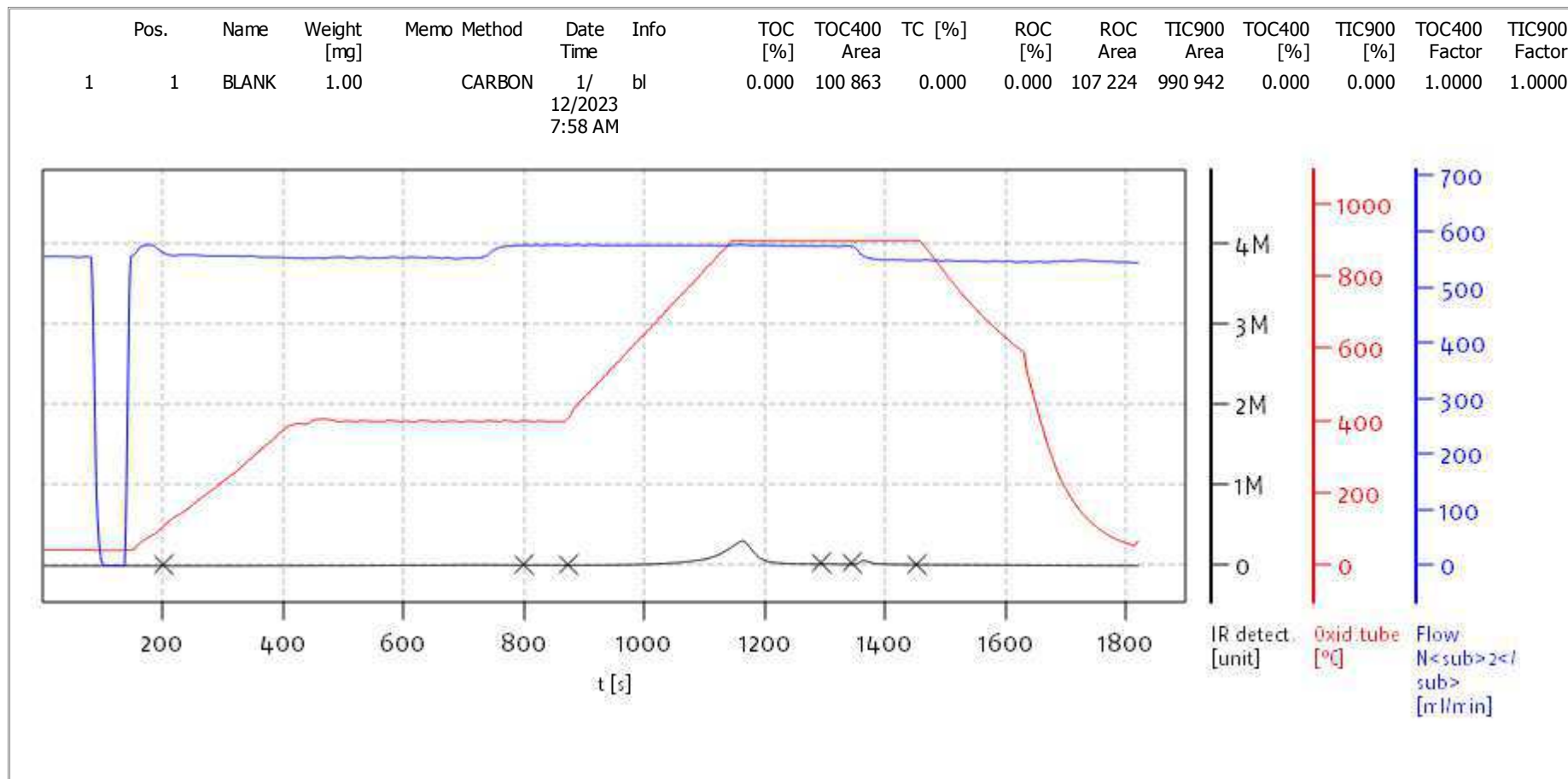
Sequence: SLA0114

Instrument: TOC Cube

Calibration: FD00070

| Sample Name | Lab Sample ID | Lab File ID | Matrix | Analysis Date/Time |
|-------------------|---------------|----------------------------|--------|--------------------|
| LDW23-SC1093 | 23A0180-10 | CubeData_01162023@0718-040 | Solid | 01/14/23 08:16 |
| Calibration Check | SLA0114-CCV8 | CubeData_01162023@0718-061 | NA | 01/14/23 10:18 |
| Calibration Blank | SLA0114-CCB8 | CubeData_01162023@0718-068 | NA | 01/14/23 10:48 |
| LDW23-SC1094 | 23A0180-11 | CubeData_01162023@0718-073 | Solid | 01/14/23 11:18 |
| LDW23-SC1103 | 23A0180-12 | CubeData_01162023@0718-080 | Solid | 01/14/23 11:49 |
| LDW23-SC1100 | 23A0180-13 | CubeData_01162023@0718-085 | Solid | 01/14/23 12:19 |
| LDW23-SC1101 | 23A0180-14 | CubeData_01162023@0718-091 | Solid | 01/14/23 12:50 |
| LDW23-SC1096 | 23A0180-15 | CubeData_01162023@0718-098 | Solid | 01/14/23 13:20 |
| Calibration Check | SLA0114-CCV9 | CubeData_01162023@0718-138 | NA | 01/14/23 16:22 |
| Calibration Blank | SLA0114-CCB9 | CubeData_01162023@0718-145 | NA | 01/14/23 16:53 |
| Calibration Check | SLA0114-CCVA | CubeData_01162023@0718-217 | NA | 01/14/23 22:28 |
| Calibration Blank | SLA0114-CCBA | CubeData_01162023@0718-223 | NA | 01/14/23 22:59 |
| Calibration Check | SLA0114-CCVB | CubeData_01162023@0718-273 | NA | 01/15/23 03:02 |
| Calibration Blank | SLA0114-CCBB | CubeData_01162023@0718-279 | NA | 01/15/23 03:33 |

Soli TOC Cube, Carbon
 Balance: BAL3
 Analyst: DOE



Name:

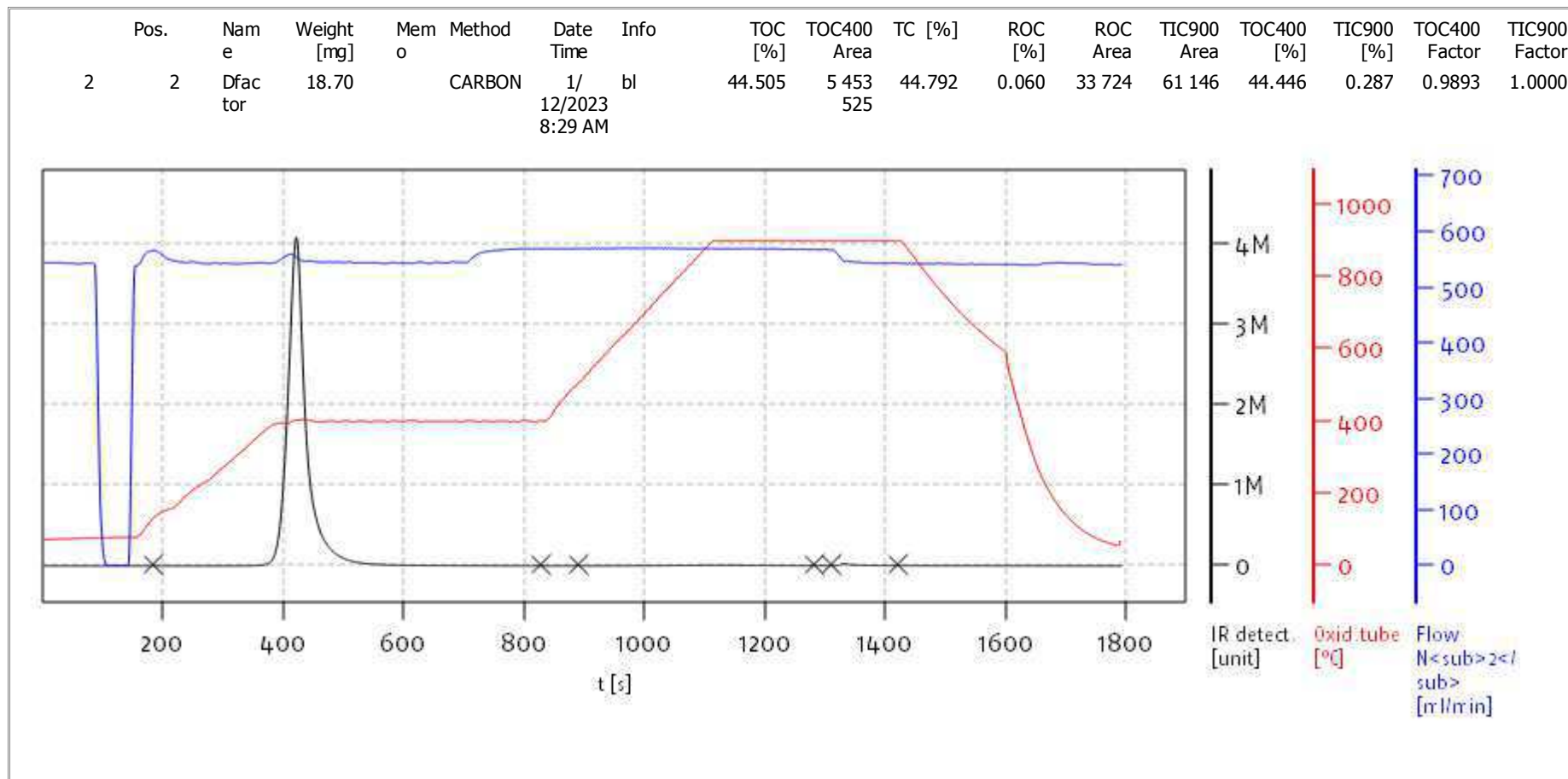
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Date: Mon Jan 16 07:14:49 2023



solITOC V2.0.2 (31015f9) 2018-11-19
 Serial No: 0300.181017
 Mode CCC

Soli TOC Cube, Carbon
 Balance: BAL3
 Analyst: DOE



Name:

Access: solITOC superuser

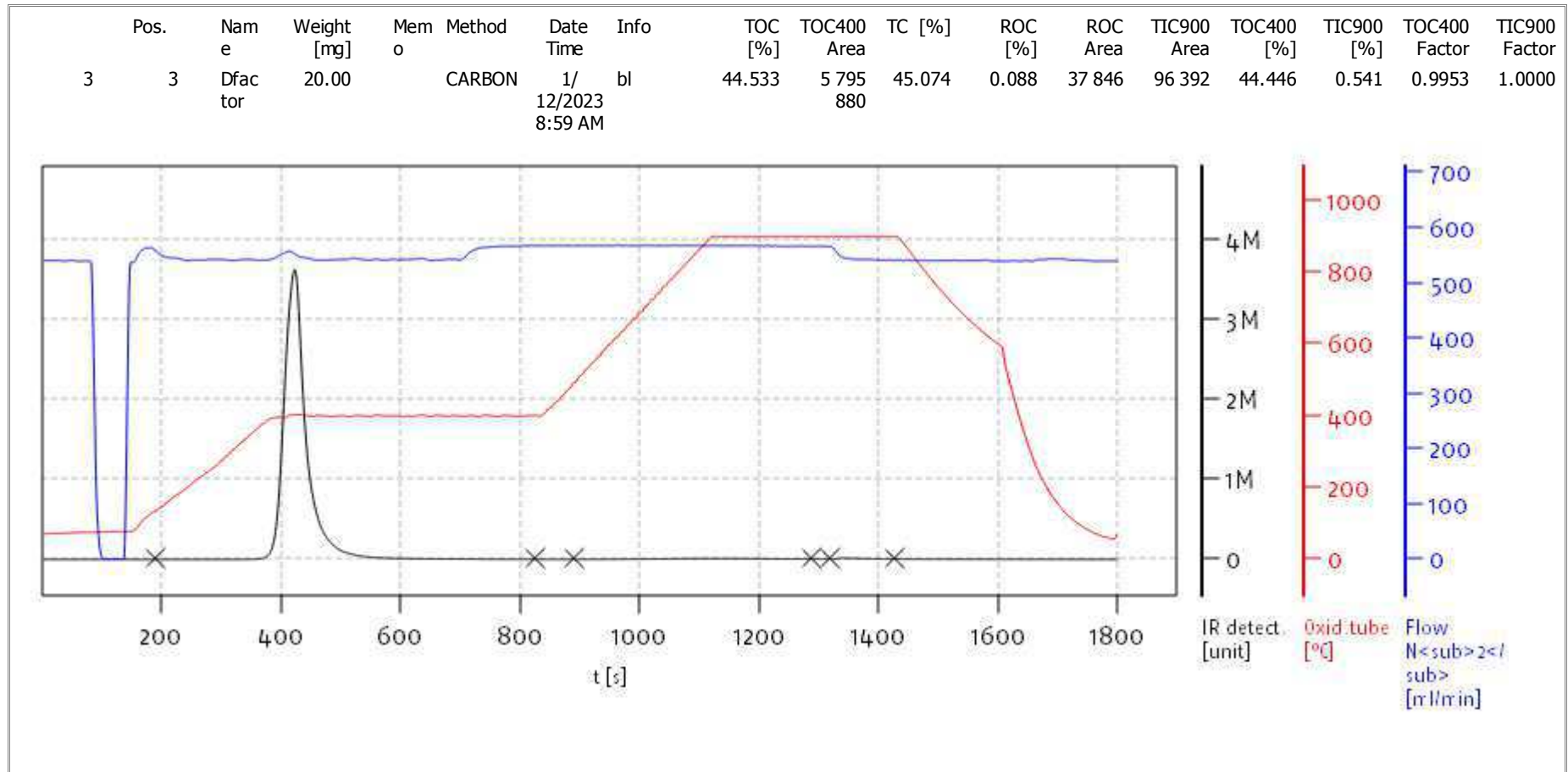
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 Mode CCC



Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE



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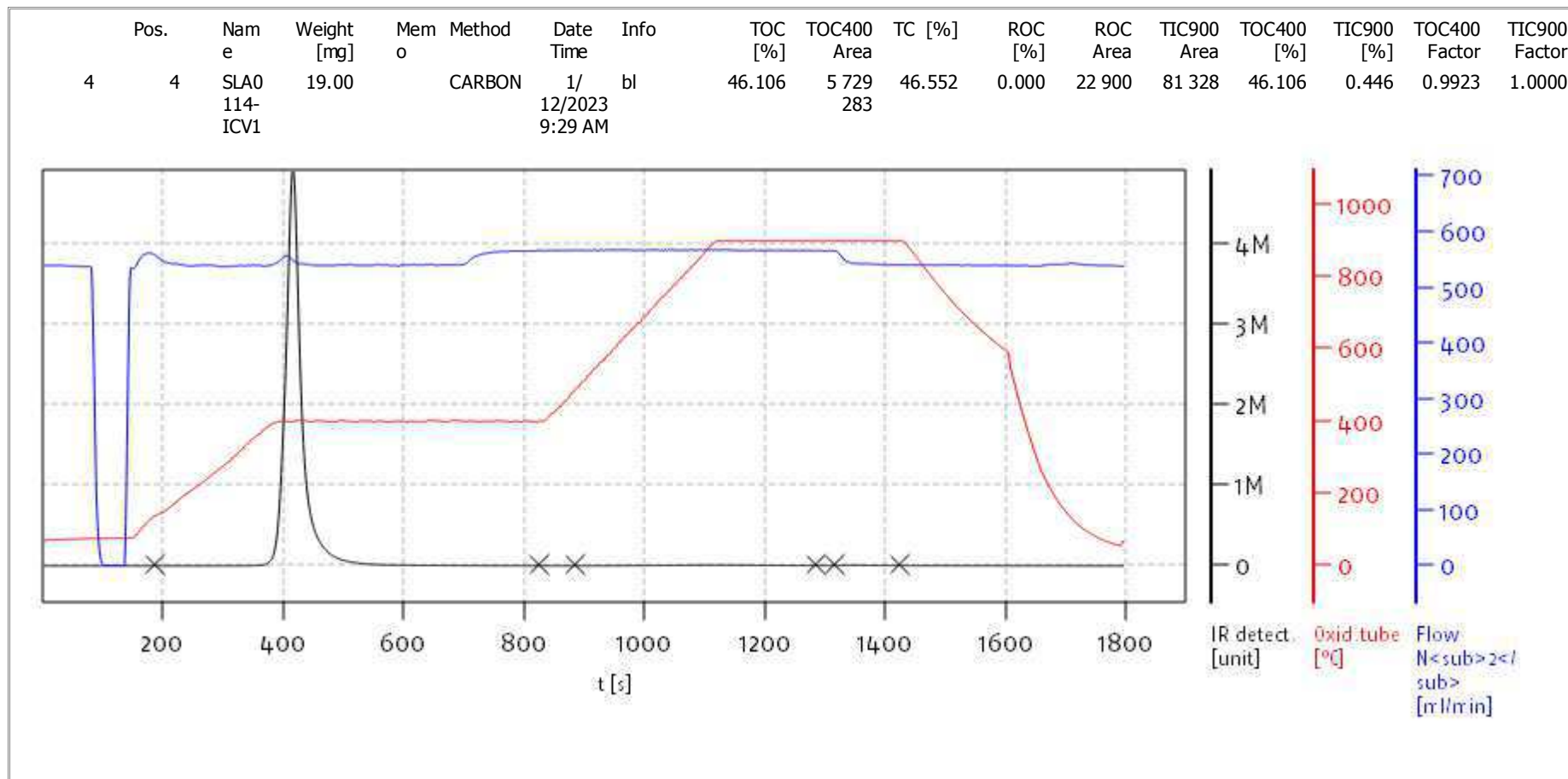
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Soli TOC Cube, Carbon
 Balance: BAL3
 Analyst: DOE



Name:

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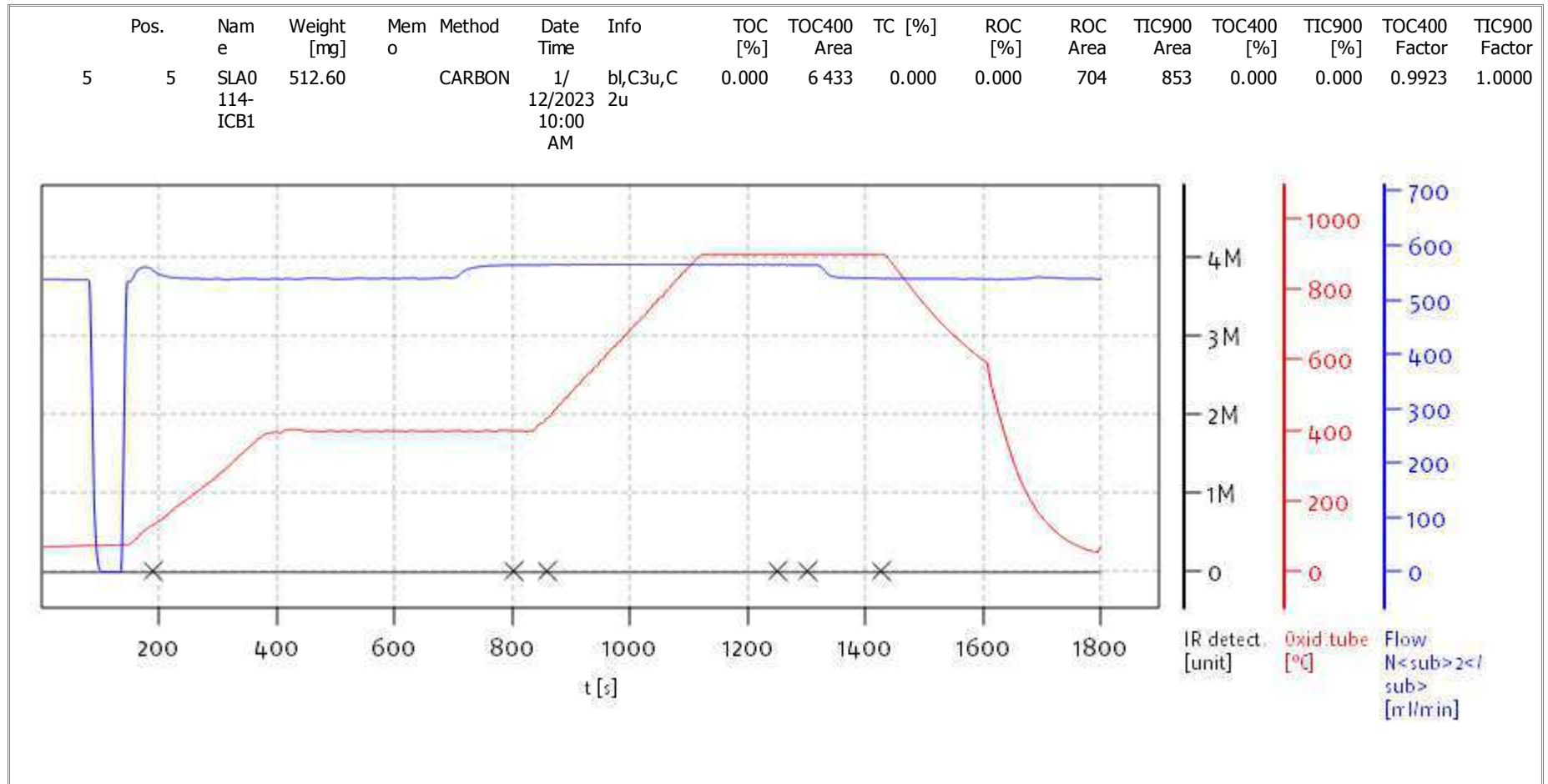
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 Serial No: 0300.181017
 Mode CCC



Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE



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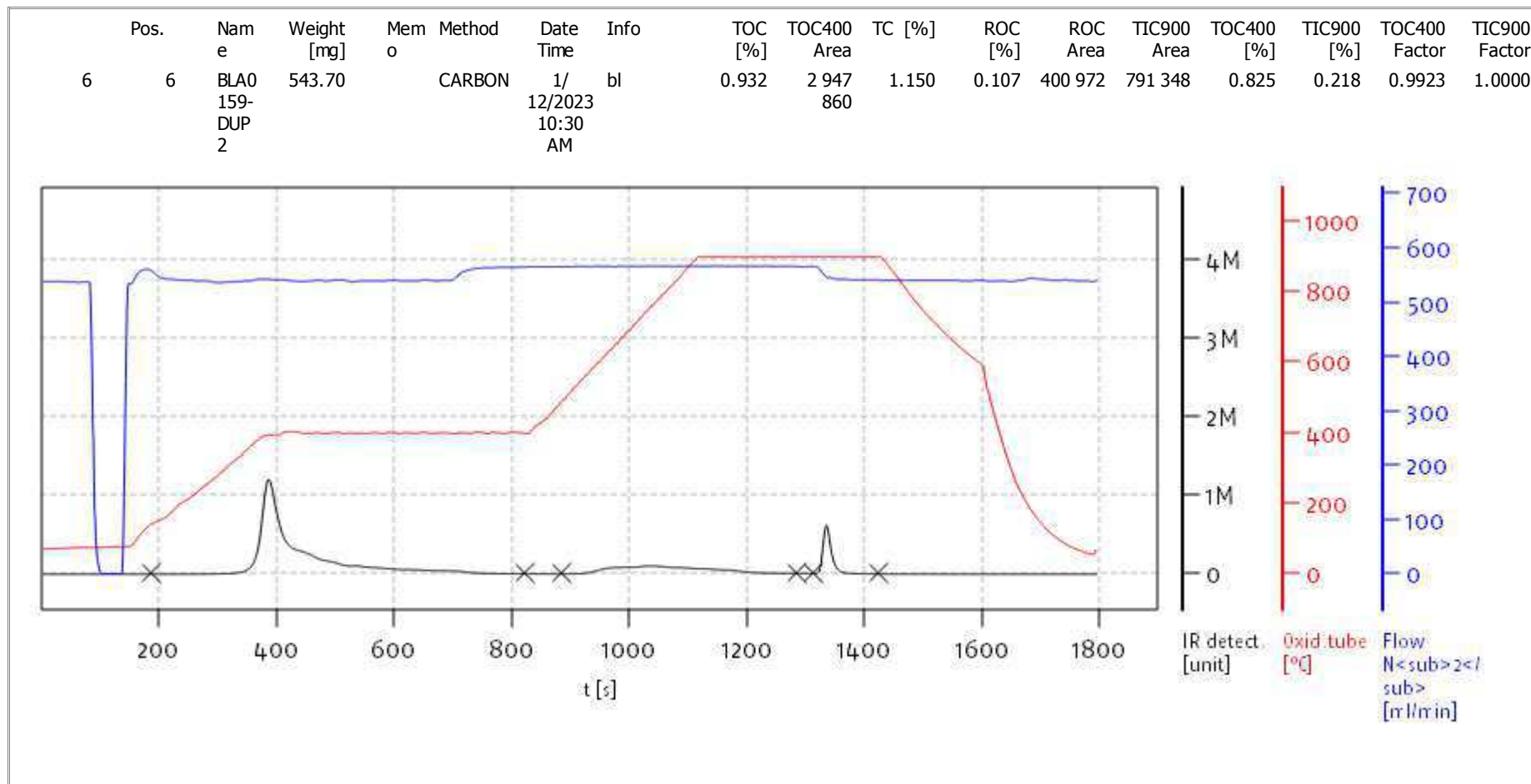
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Mode CCC

Soli TOC Cube, Carbon
 Balance: BAL3
 Analyst: DOE



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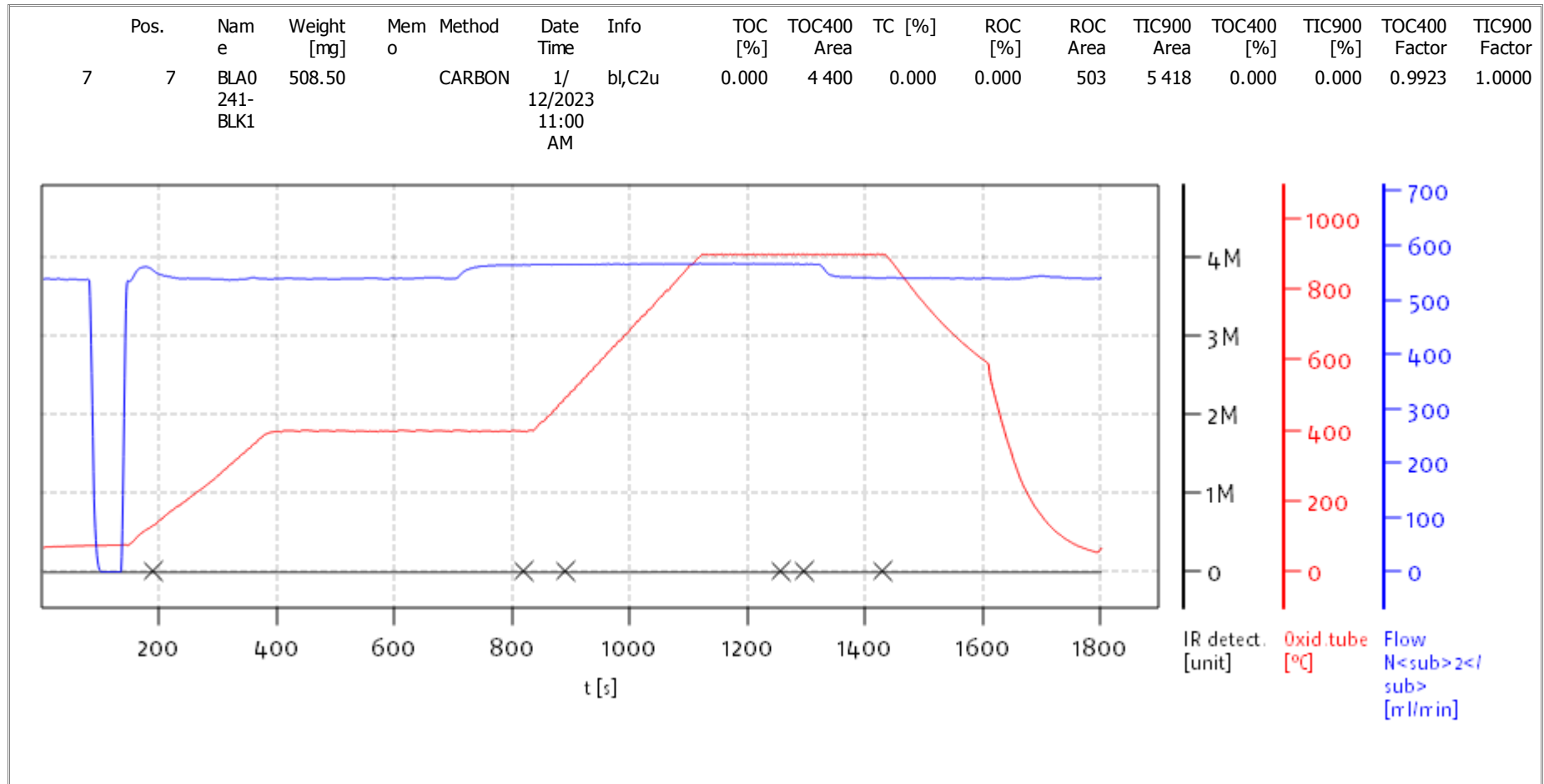
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 Mode CCC



Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE



Name:

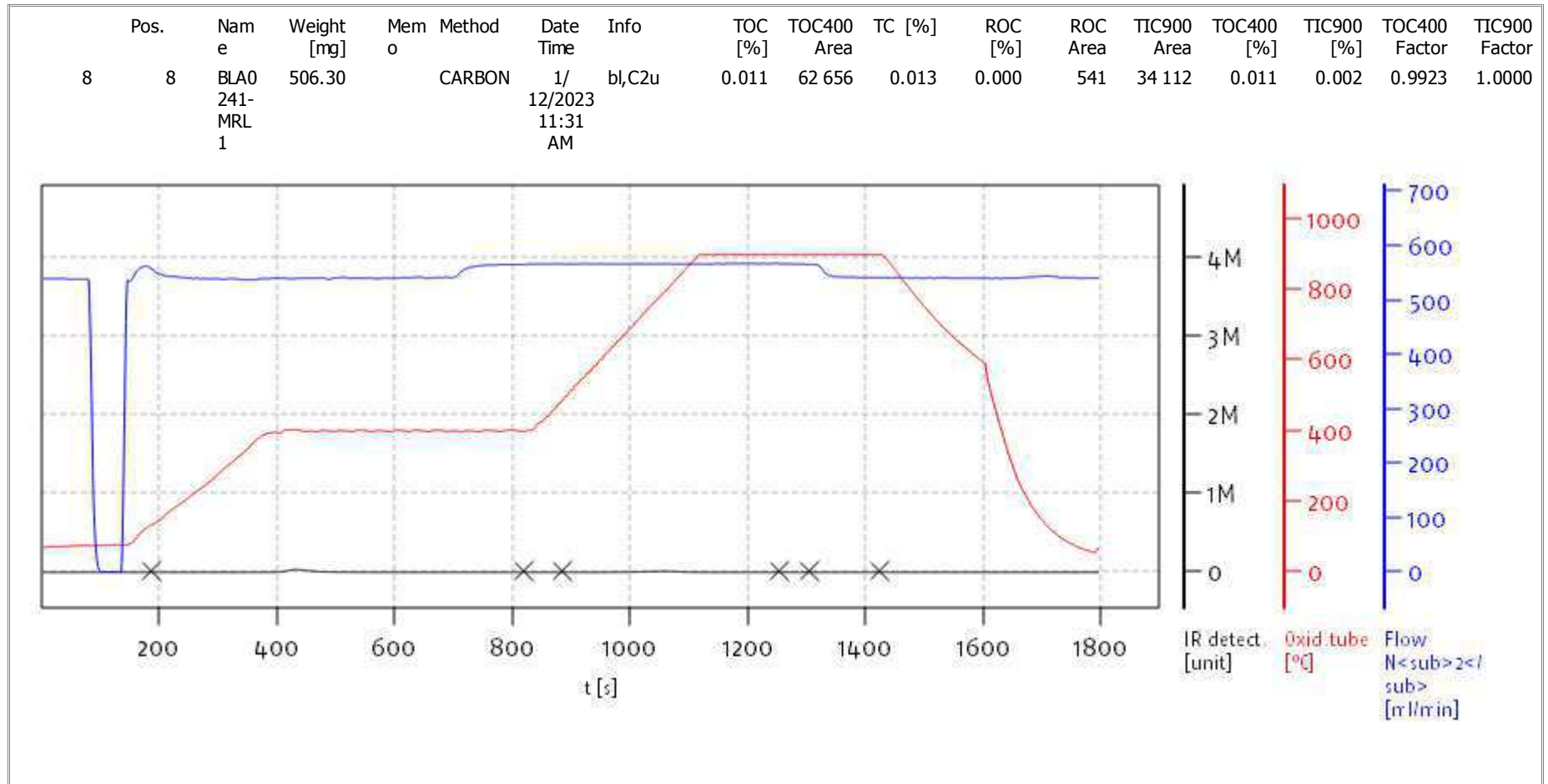
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Mode CCC

Soli TOC Cube, Carbon
 Balance: BAL3
 Analyst: DOE



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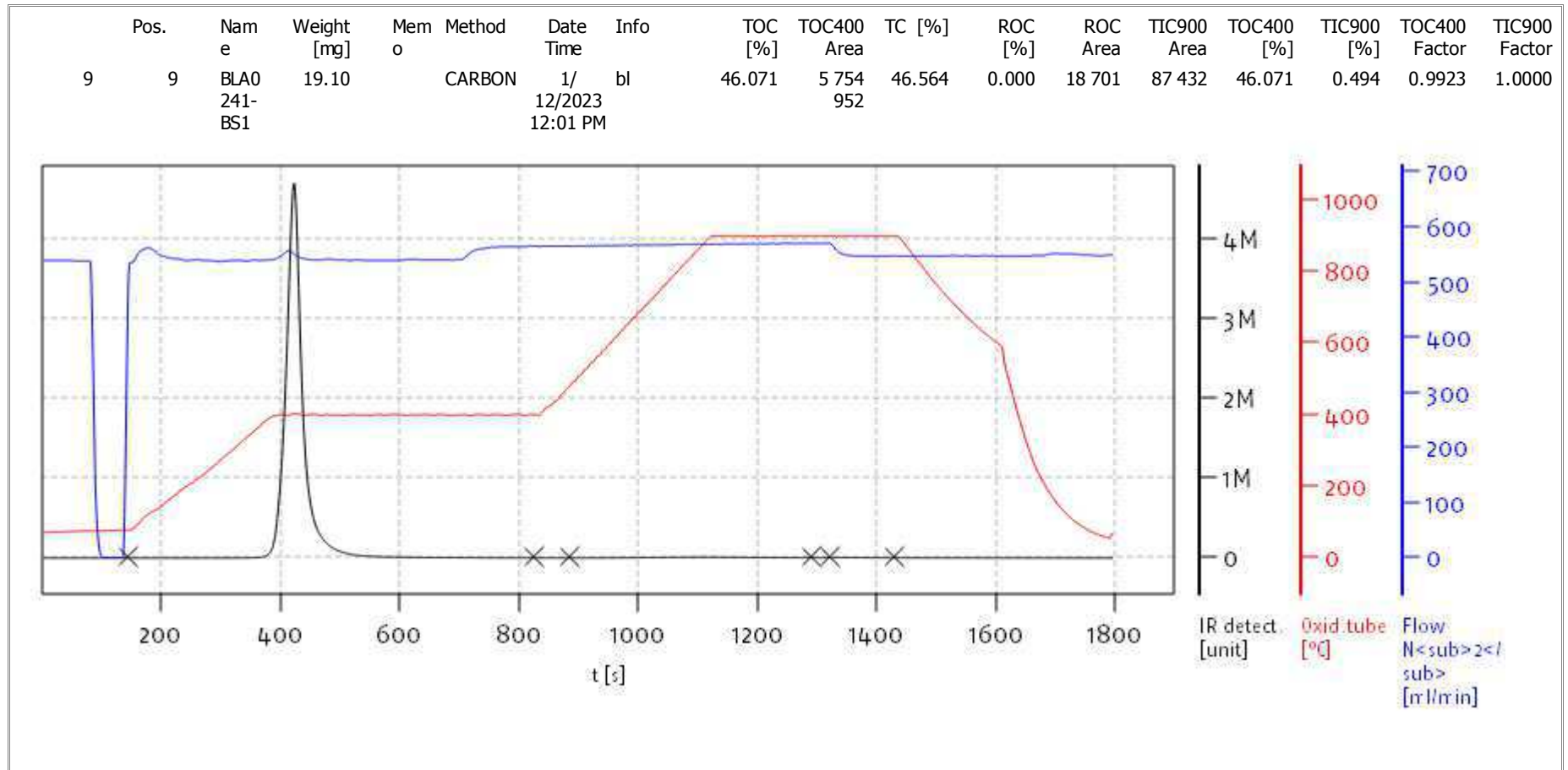
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 Mode CCC

Soli TOC Cube, Carbon
 Balance: BAL3
 Analyst: DOE



Name:

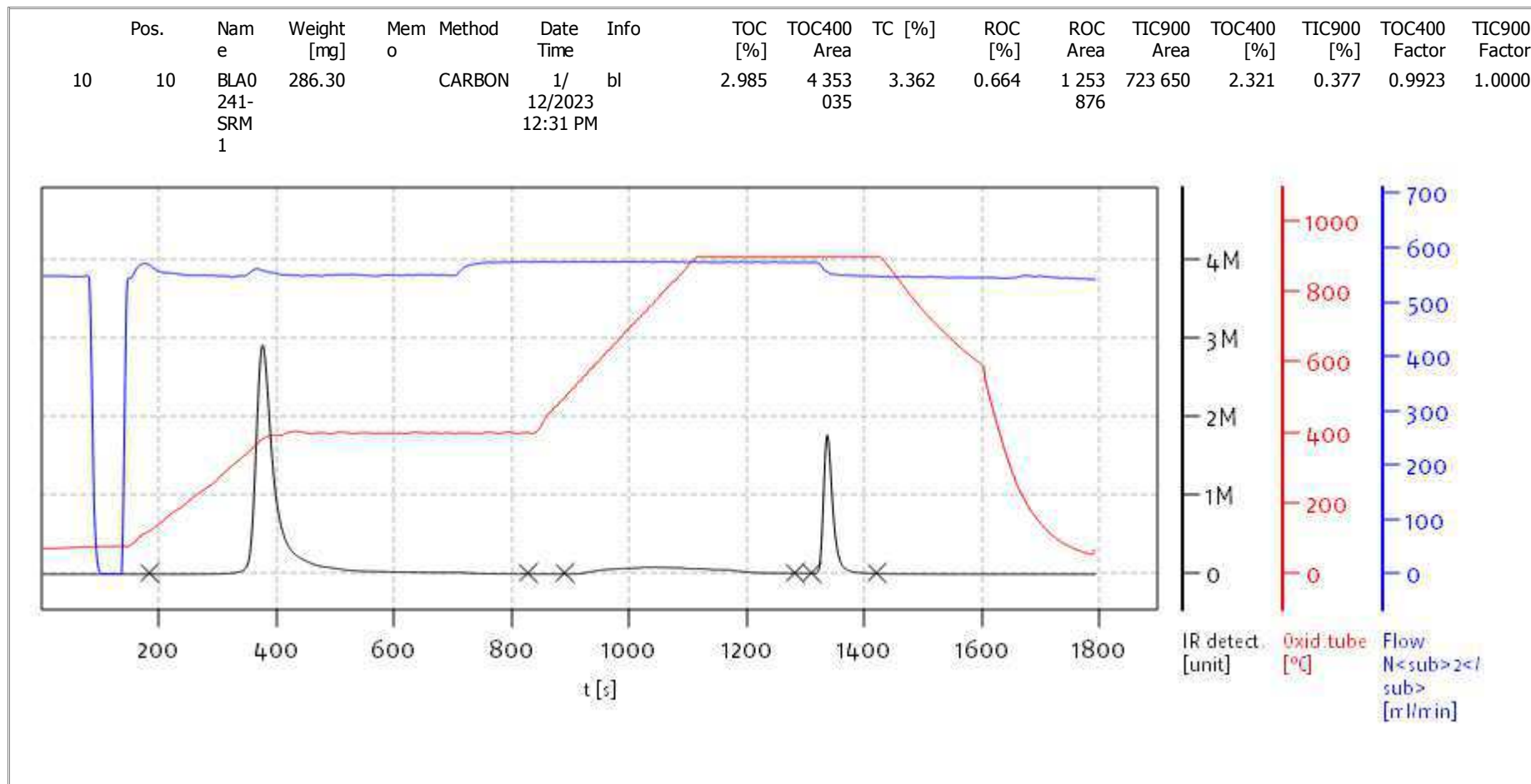
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solITOC V2.0.2 (31015f9) 2018-11-19
 Serial No: 0300.181017
 Mode CCC

Soli TOC Cube, Carbon
 Balance: BAL3
 Analyst: DOE



Name:

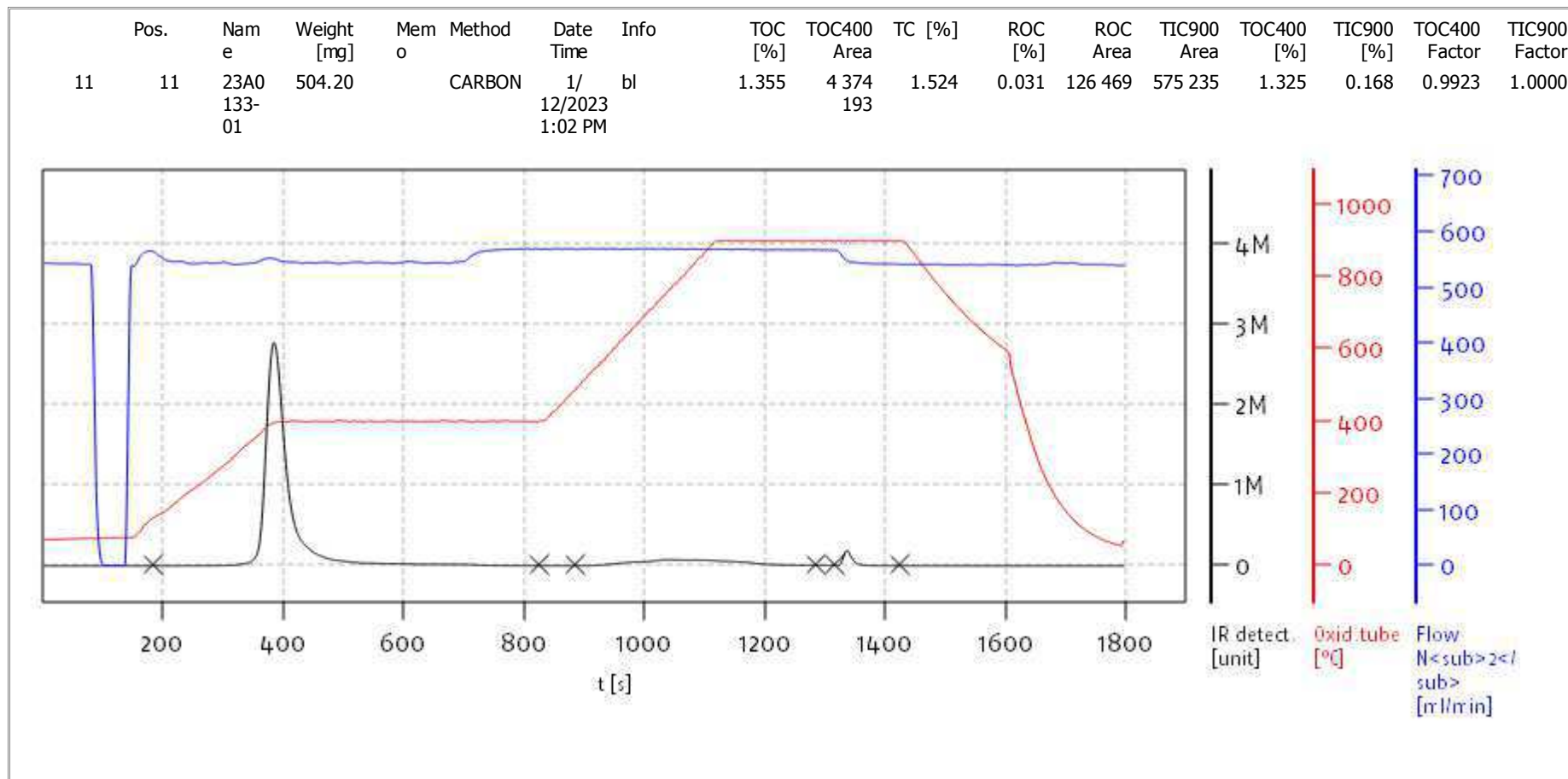
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 Serial No: 0300.181017
 Mode CCC

Soli TOC Cube, Carbon
 Balance: BAL3
 Analyst: DOE



Name:

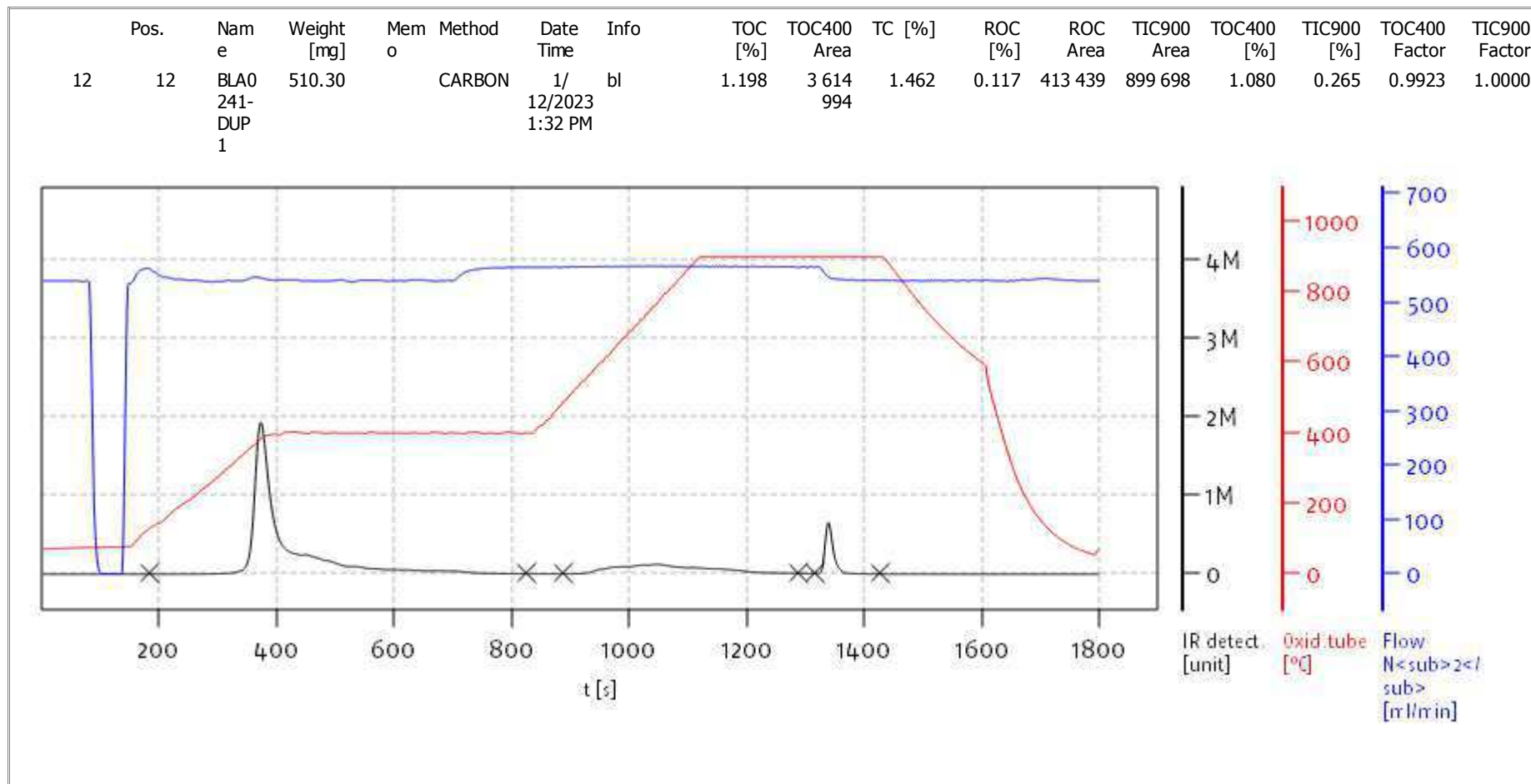
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 Mode CCC

Soli TOC Cube, Carbon
 Balance: BAL3
 Analyst: DOE



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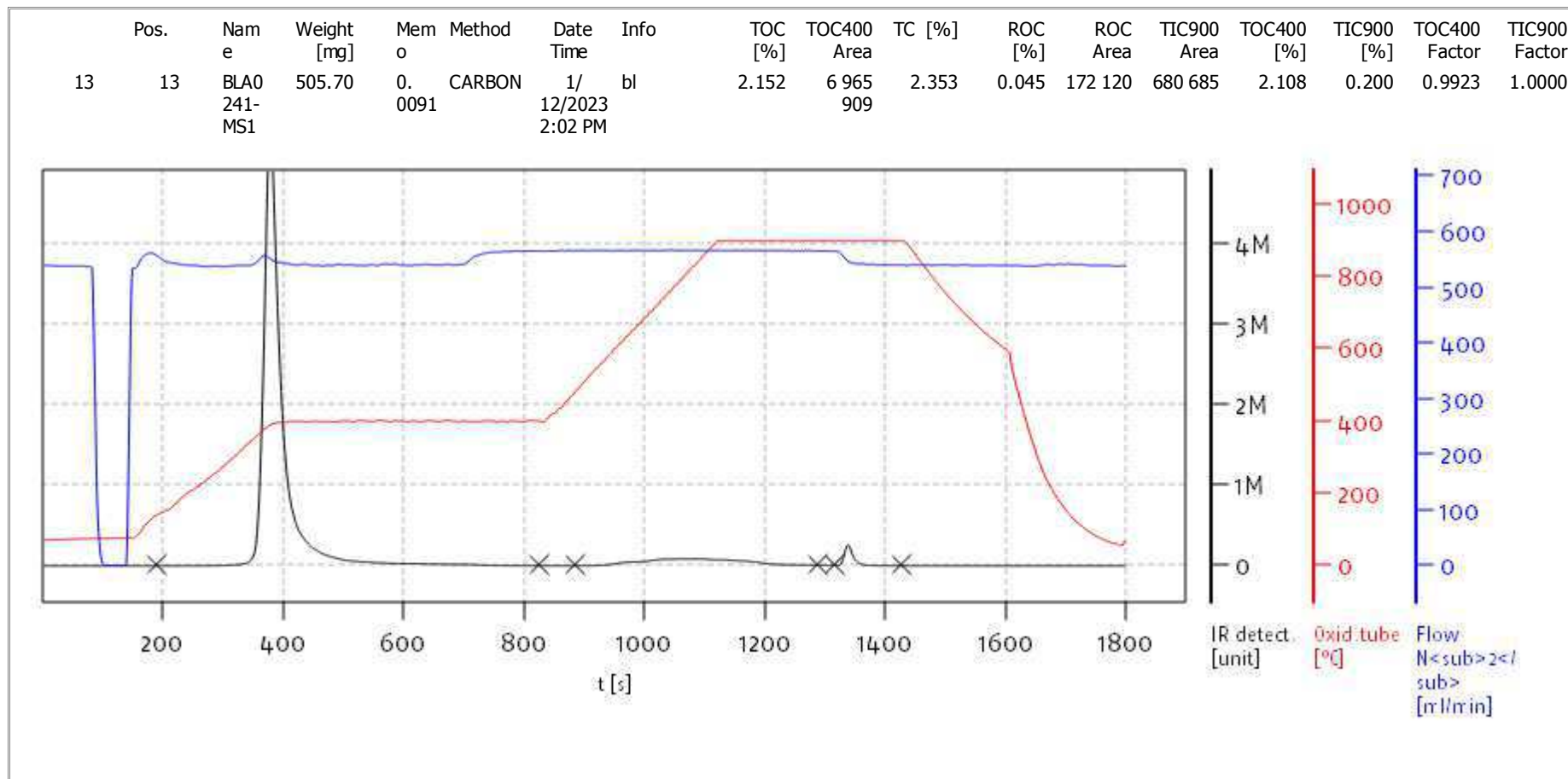
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 Mode CCC

Soli TOC Cube, Carbon
 Balance: BAL3
 Analyst: DOE



Name:

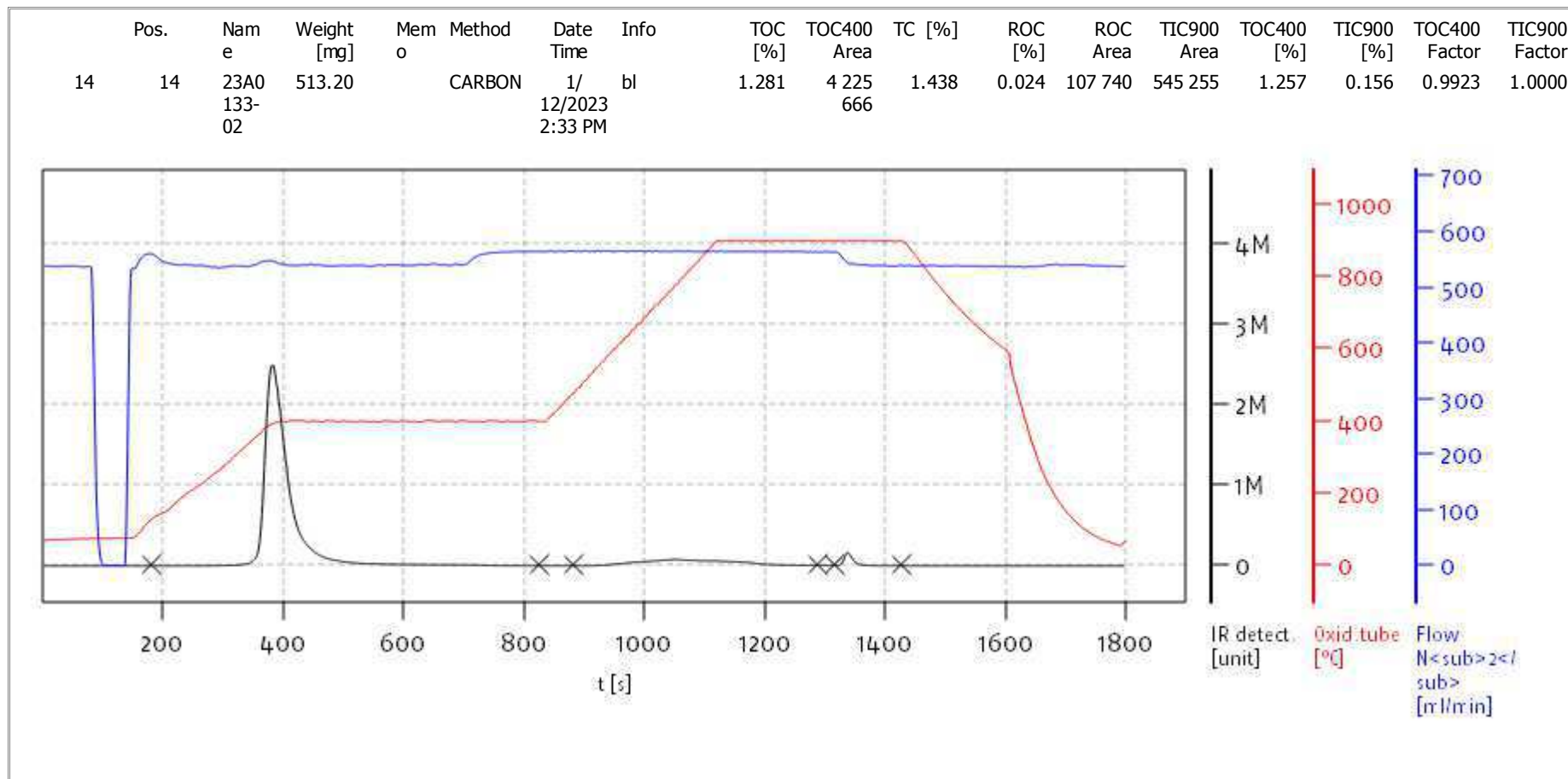
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solITOC V2.0.2 (31015f9) 2018-11-19
 Serial No: 0300.181017
 Mode CCC

Soli TOC Cube, Carbon
 Balance: BAL3
 Analyst: DOE



Name:

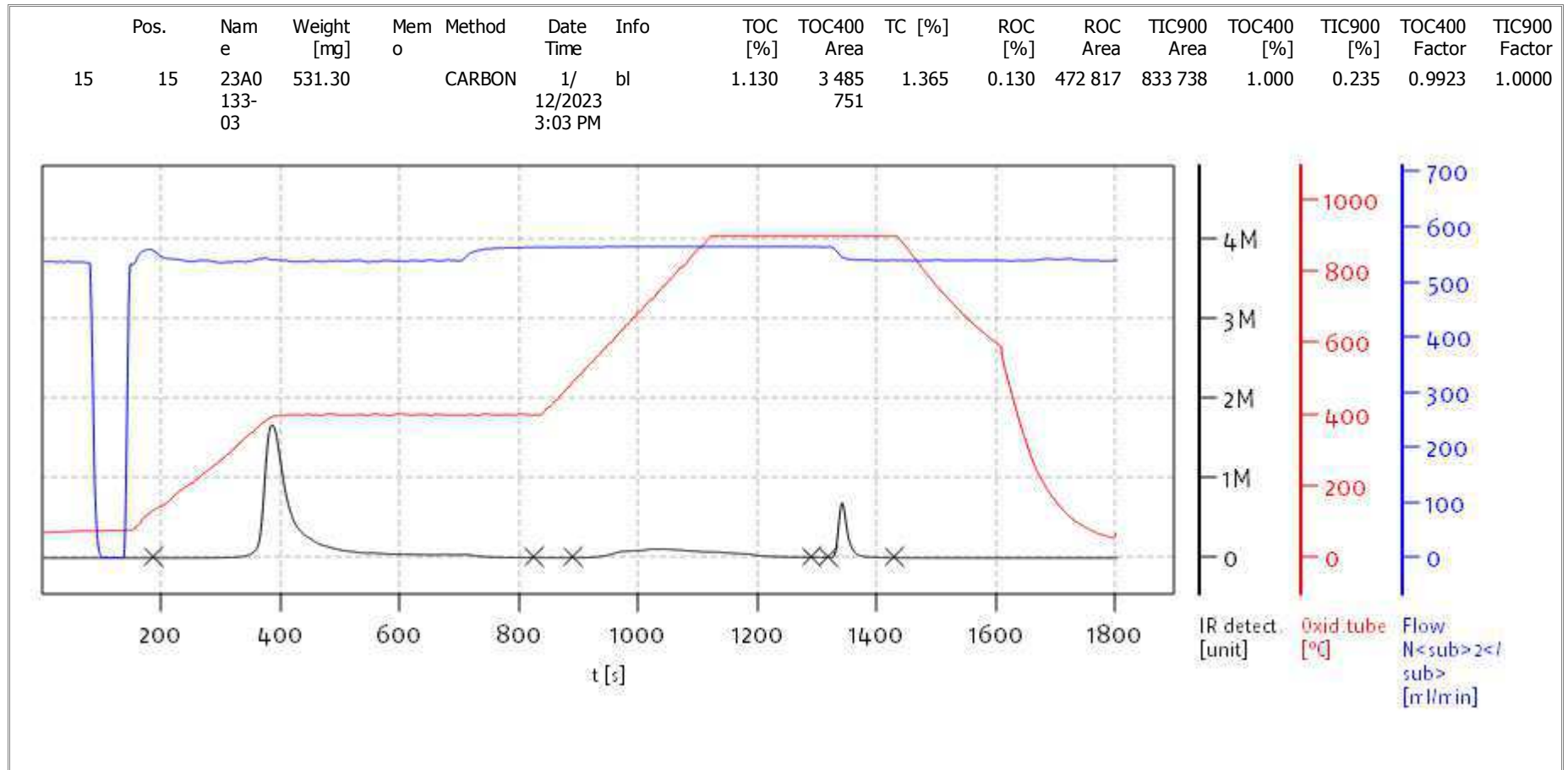
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Date: Mon Jan 16 07:14:49 2023



solITOC V2.0.2 (31015f9) 2018-11-19
 Serial No: 0300.181017
 Mode CCC

Soli TOC Cube, Carbon
 Balance: BAL3
 Analyst: DOE



Name:

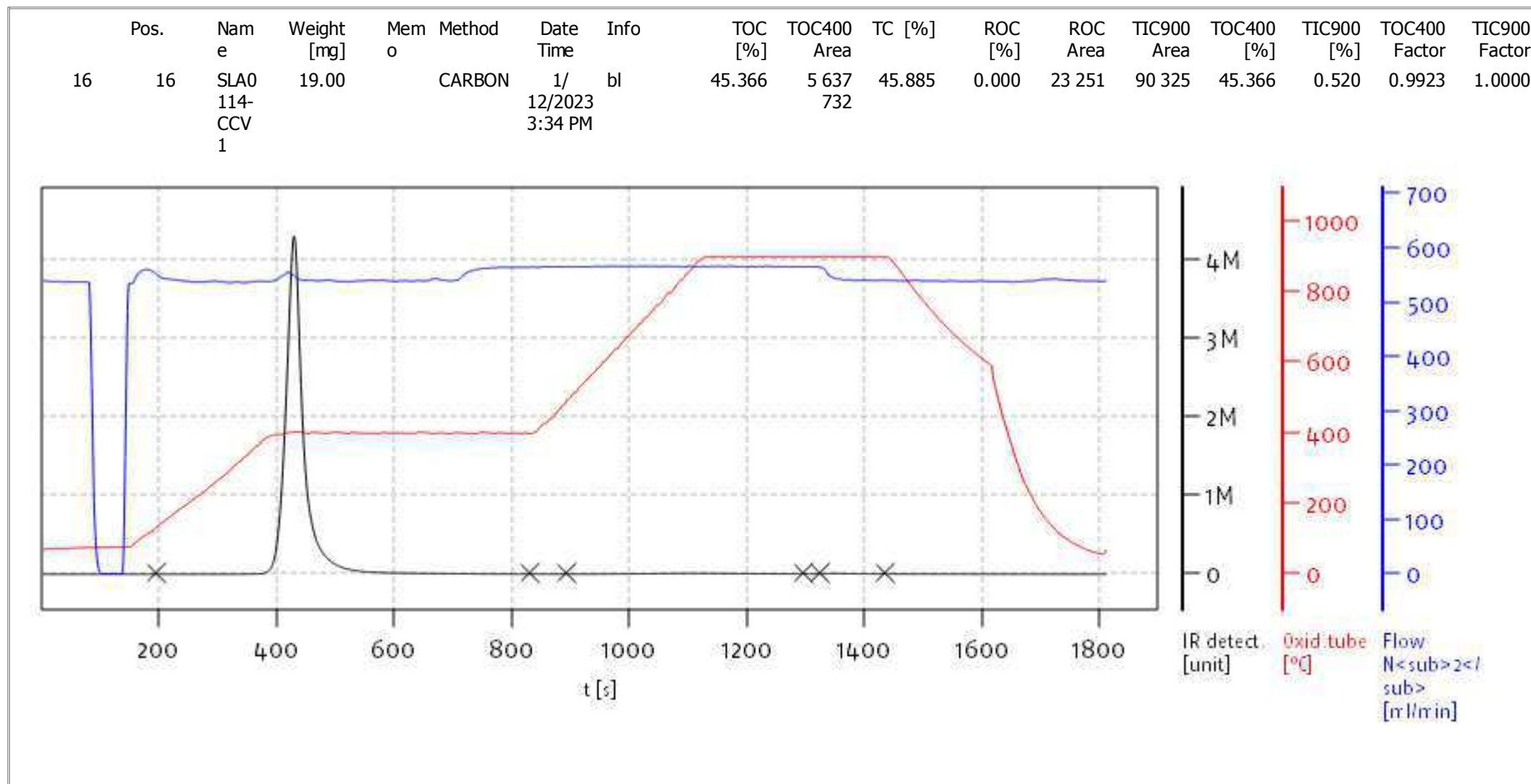
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Date: Mon Jan 16 07:14:49 2023



soliTOC V2.0.2 (31015f9) 2018-11-19
 Serial No: 0300.181017
 Mode CCC

Soli TOC Cube, Carbon
 Balance: BAL3
 Analyst: DOE



Name:

Access: solITOC superuser

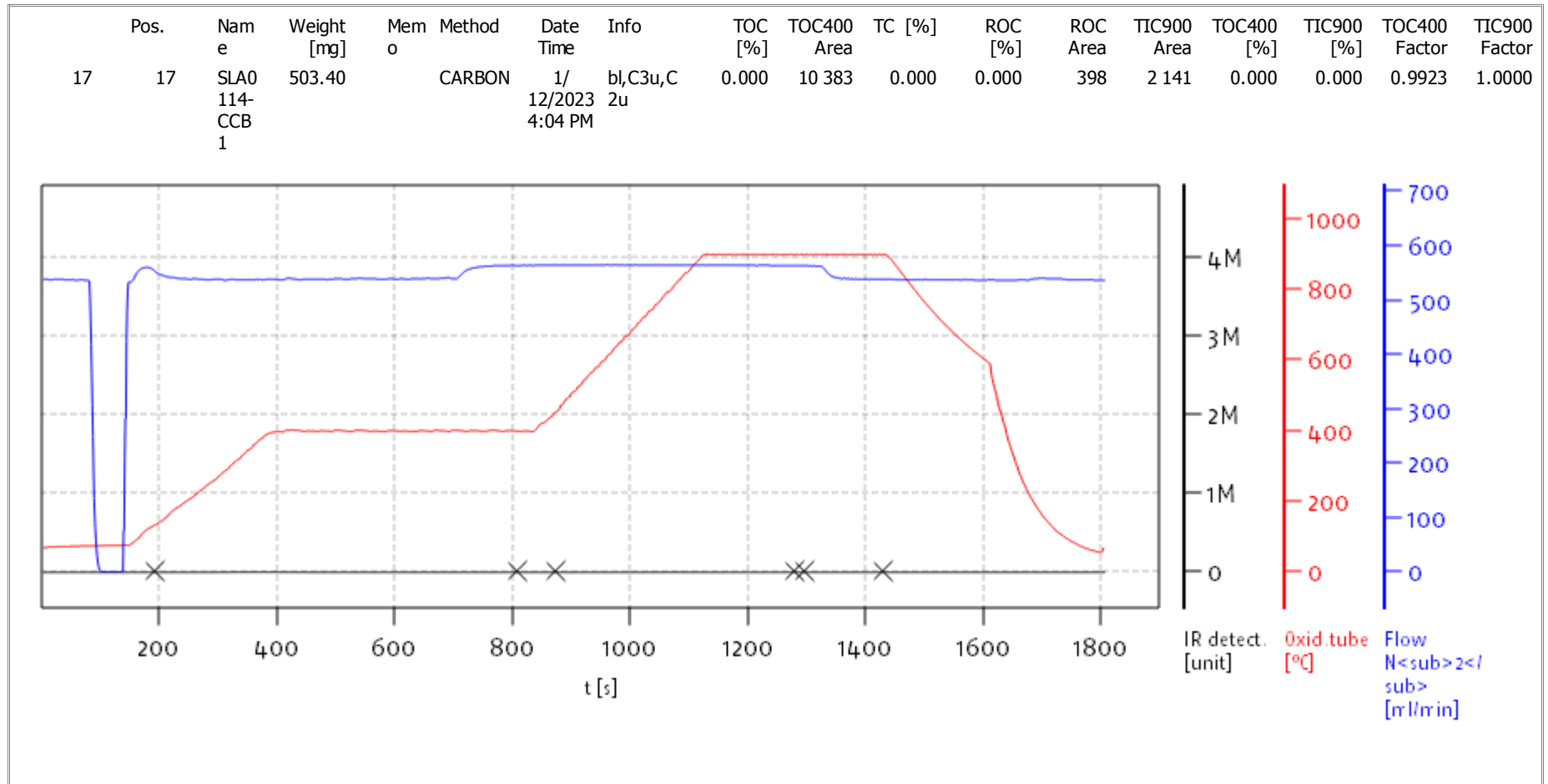
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solITOC V2.0.2 (31015f9) 2018-11-19
 Serial No: 0300.181017
 Mode CCC



Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE



Name:

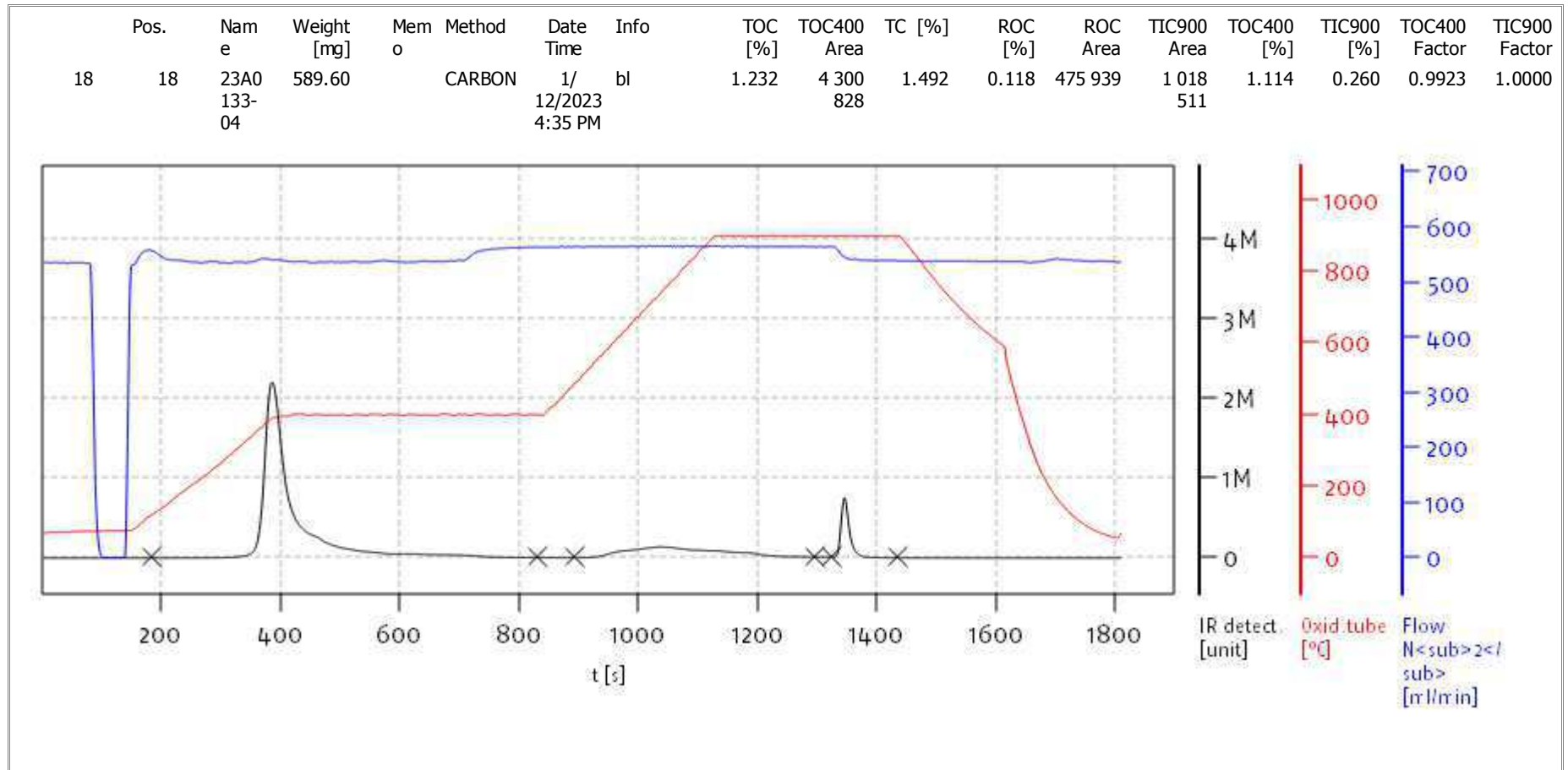
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Soli TOC Cube, Carbon
 Balance: BAL3
 Analyst: DOE



Name:

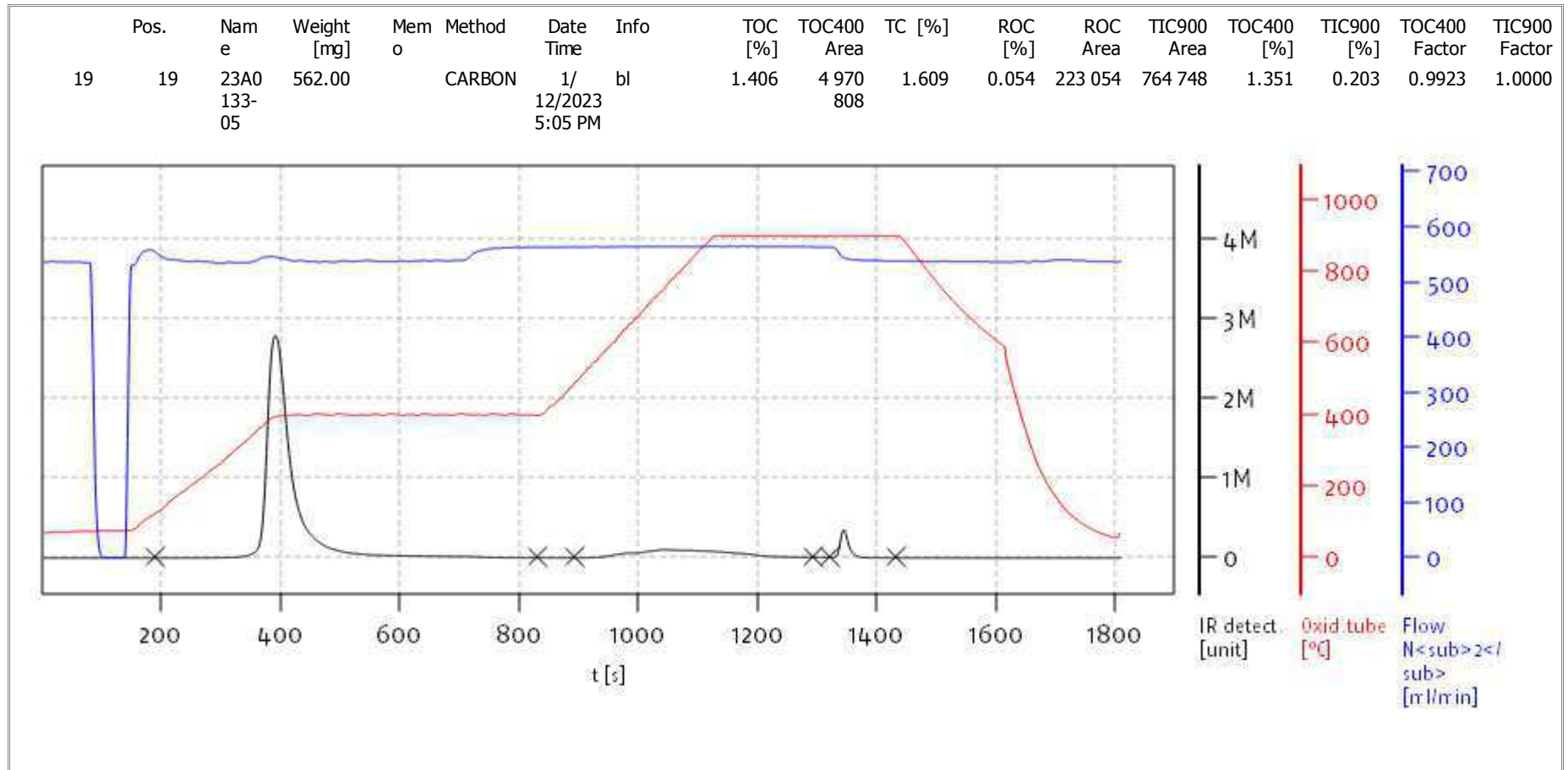
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solITOC V2.0.2 (31015f9) 2018-11-19
 Serial No: 0300.181017
 Mode CCC

Soli TOC Cube, Carbon
 Balance: BAL3
 Analyst: DOE



Name:

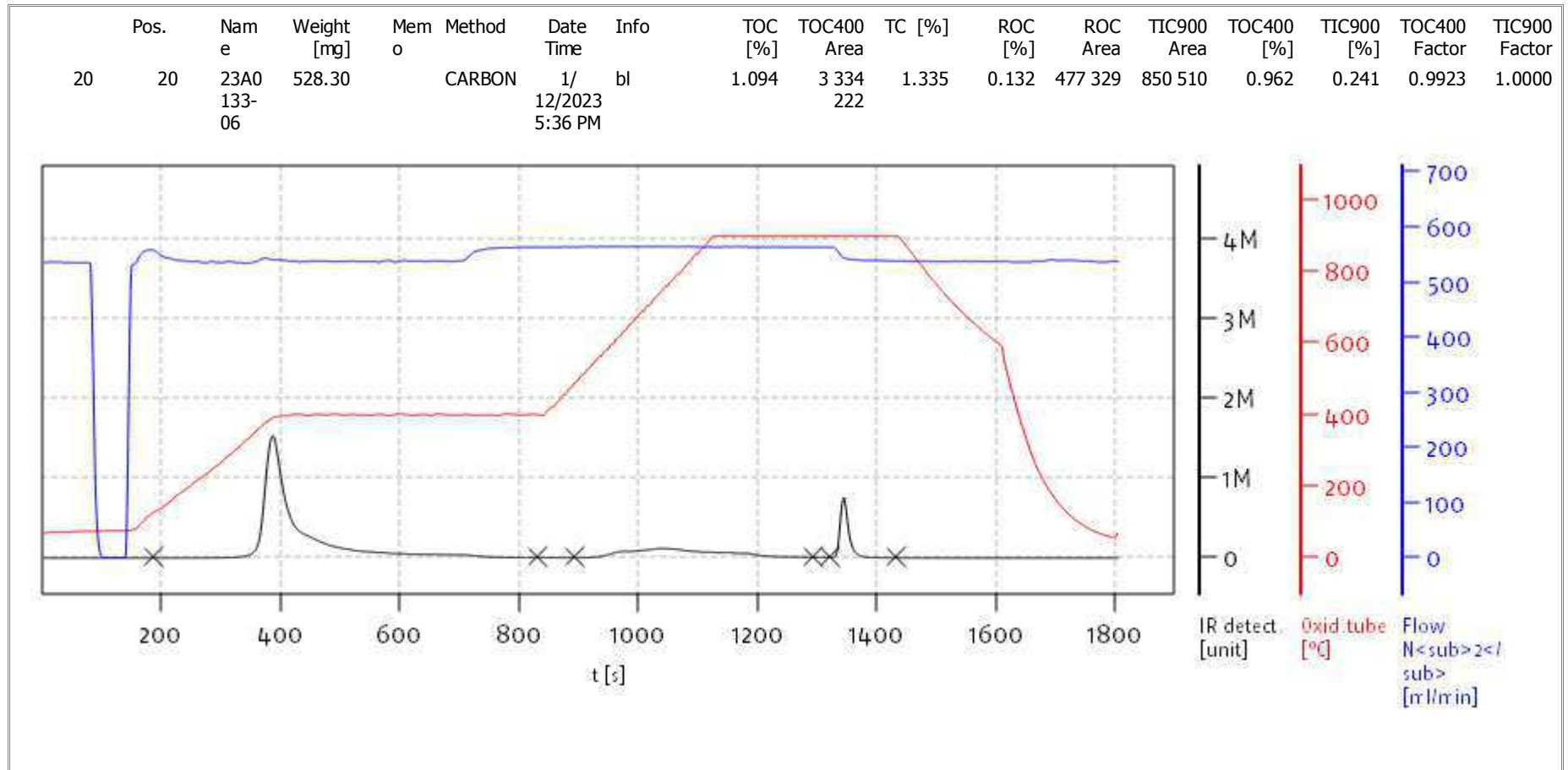
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Date: Mon Jan 16 07:14:49 2023



solITOC V2.0.2 (31015f9) 2018-11-19
 Serial No: 0300.181017
 Mode CCC

Soli TOC Cube, Carbon
 Balance: BAL3
 Analyst: DOE



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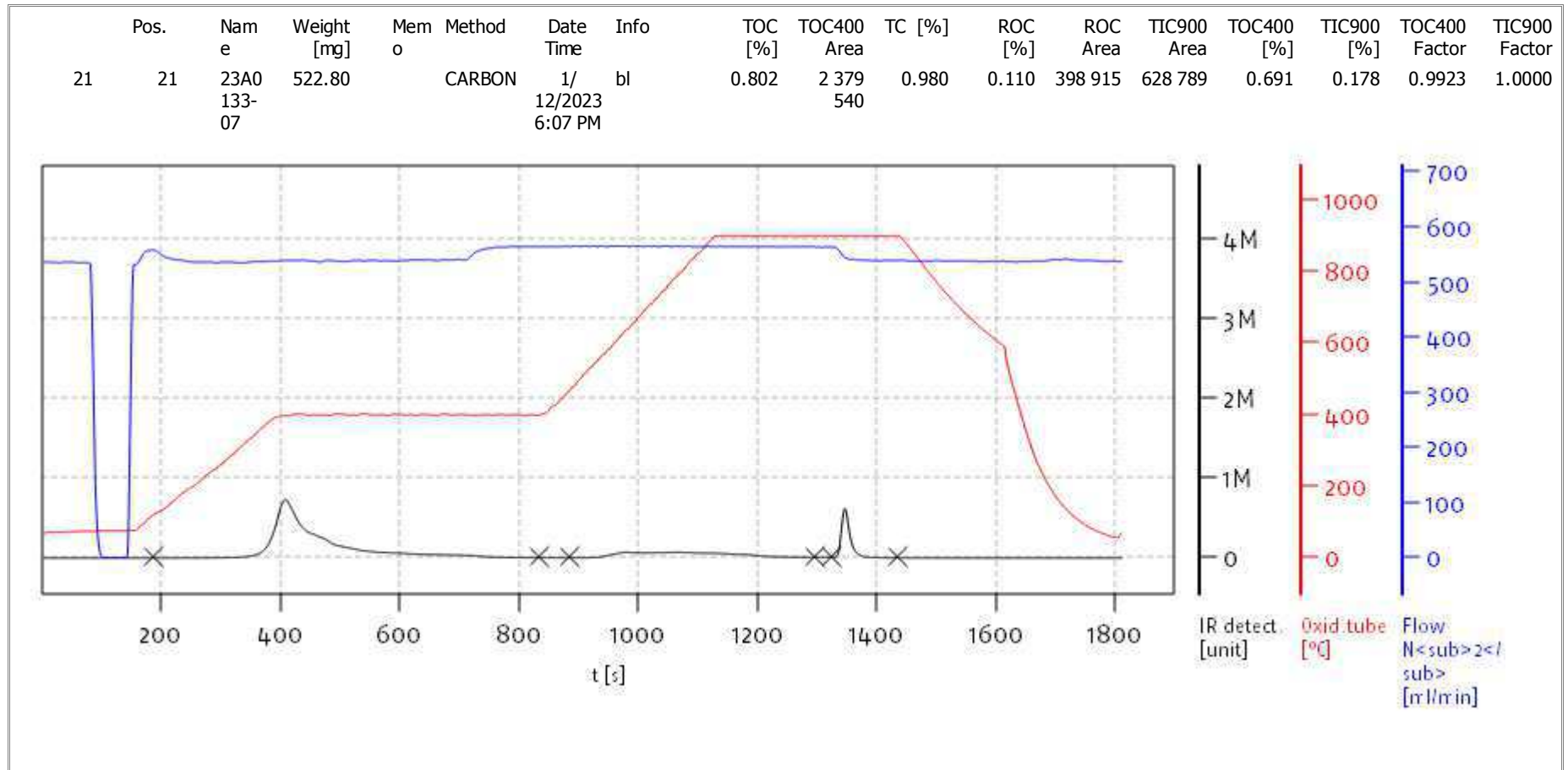
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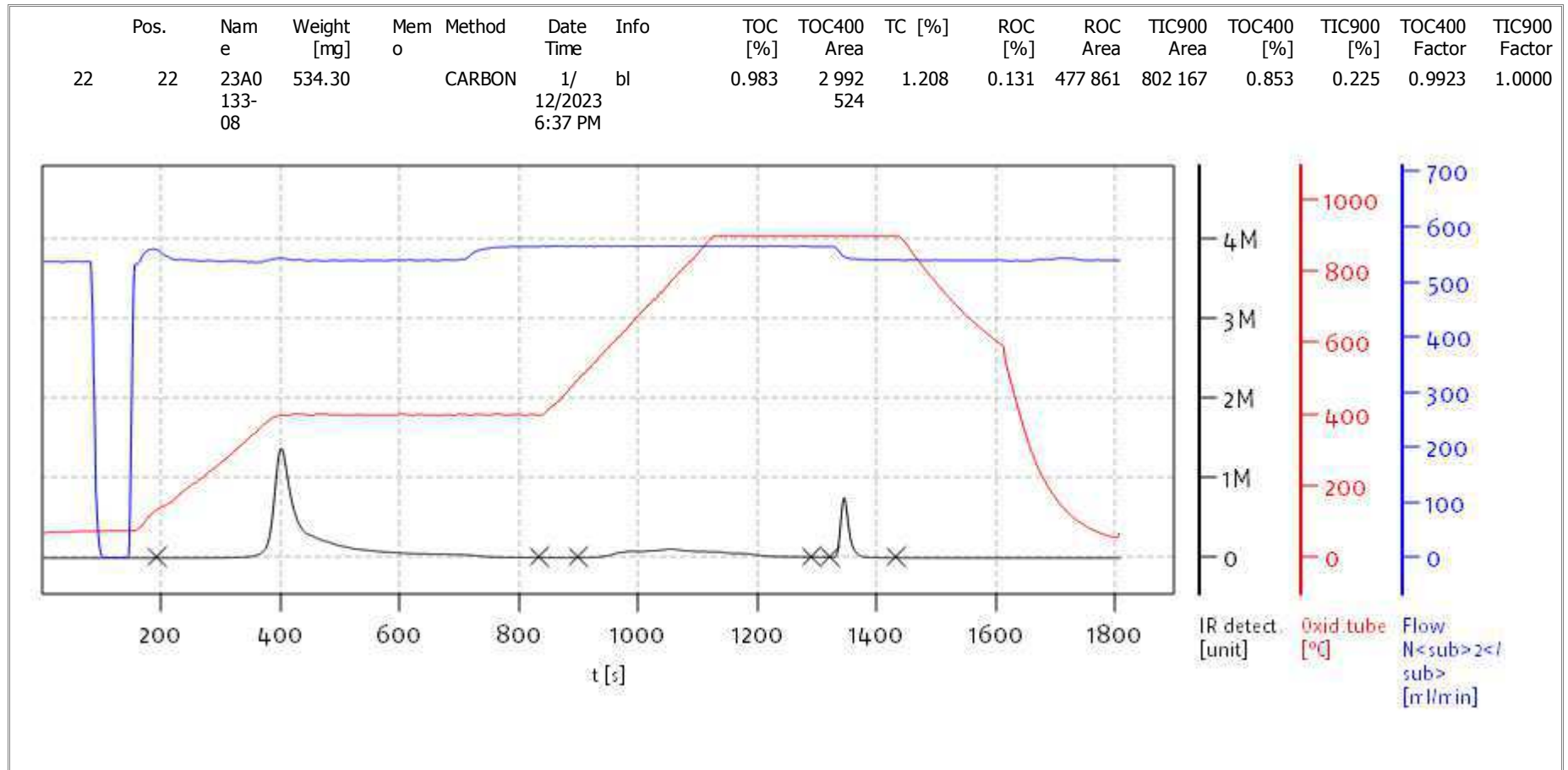
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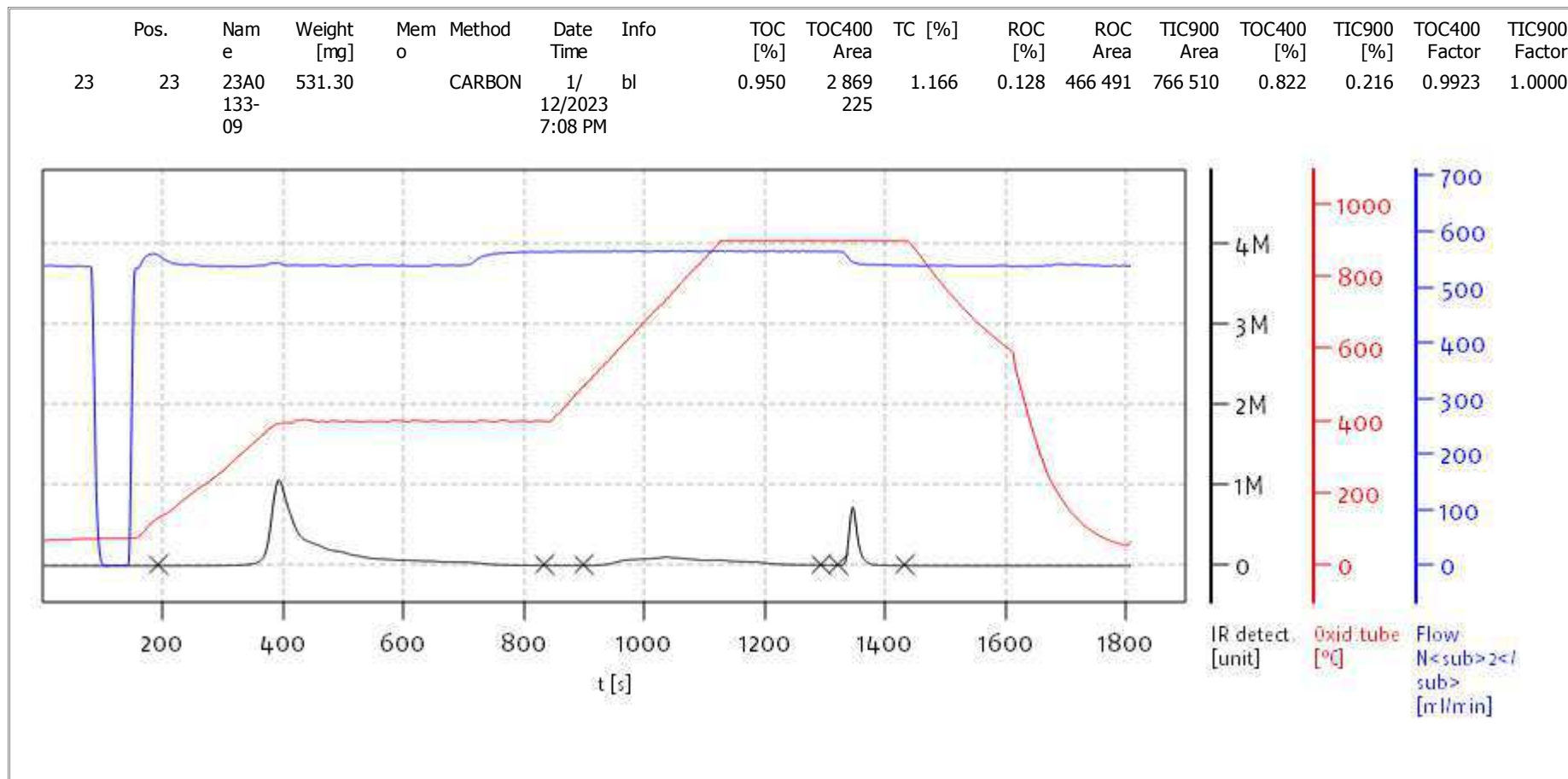
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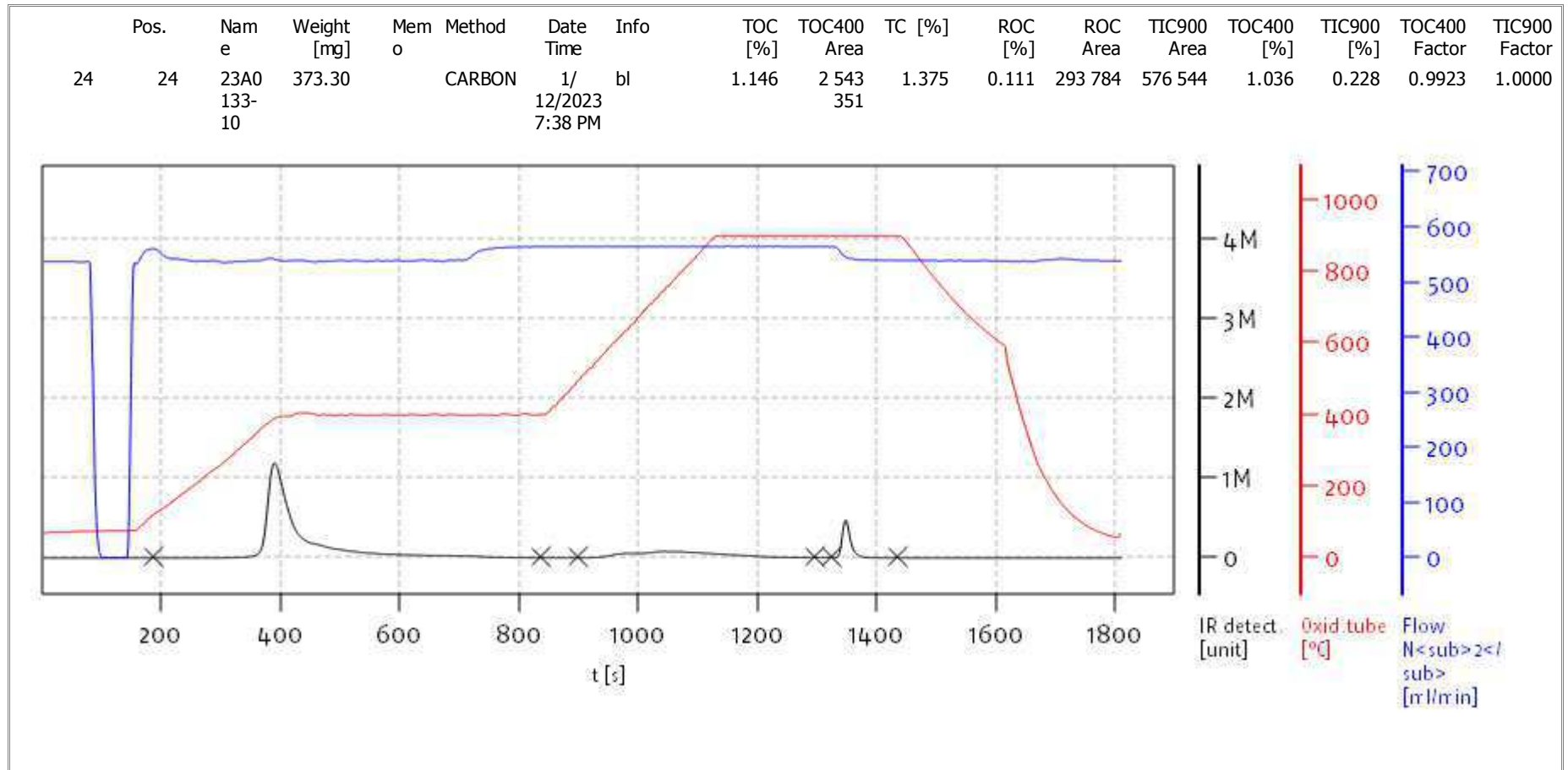
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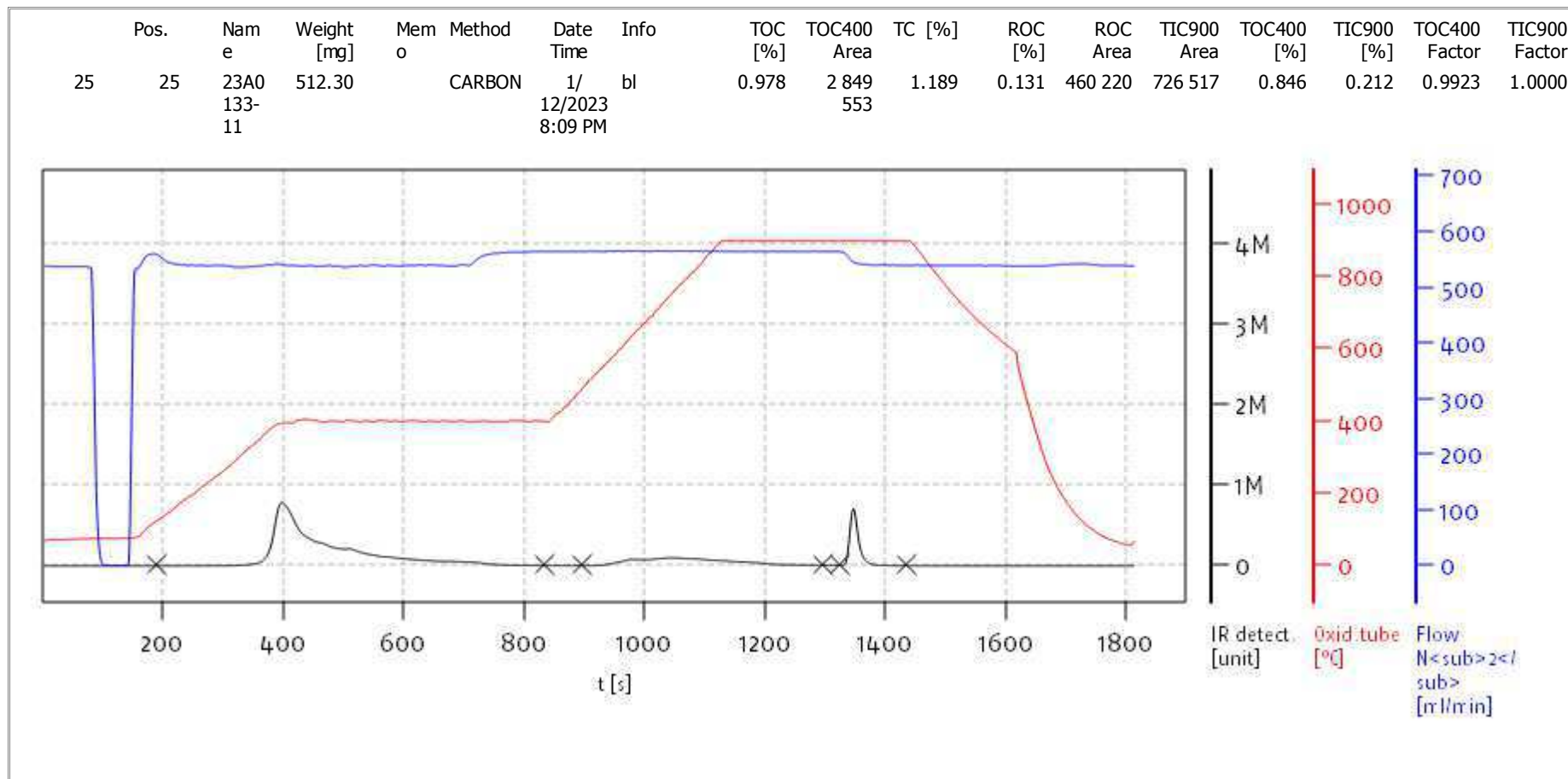
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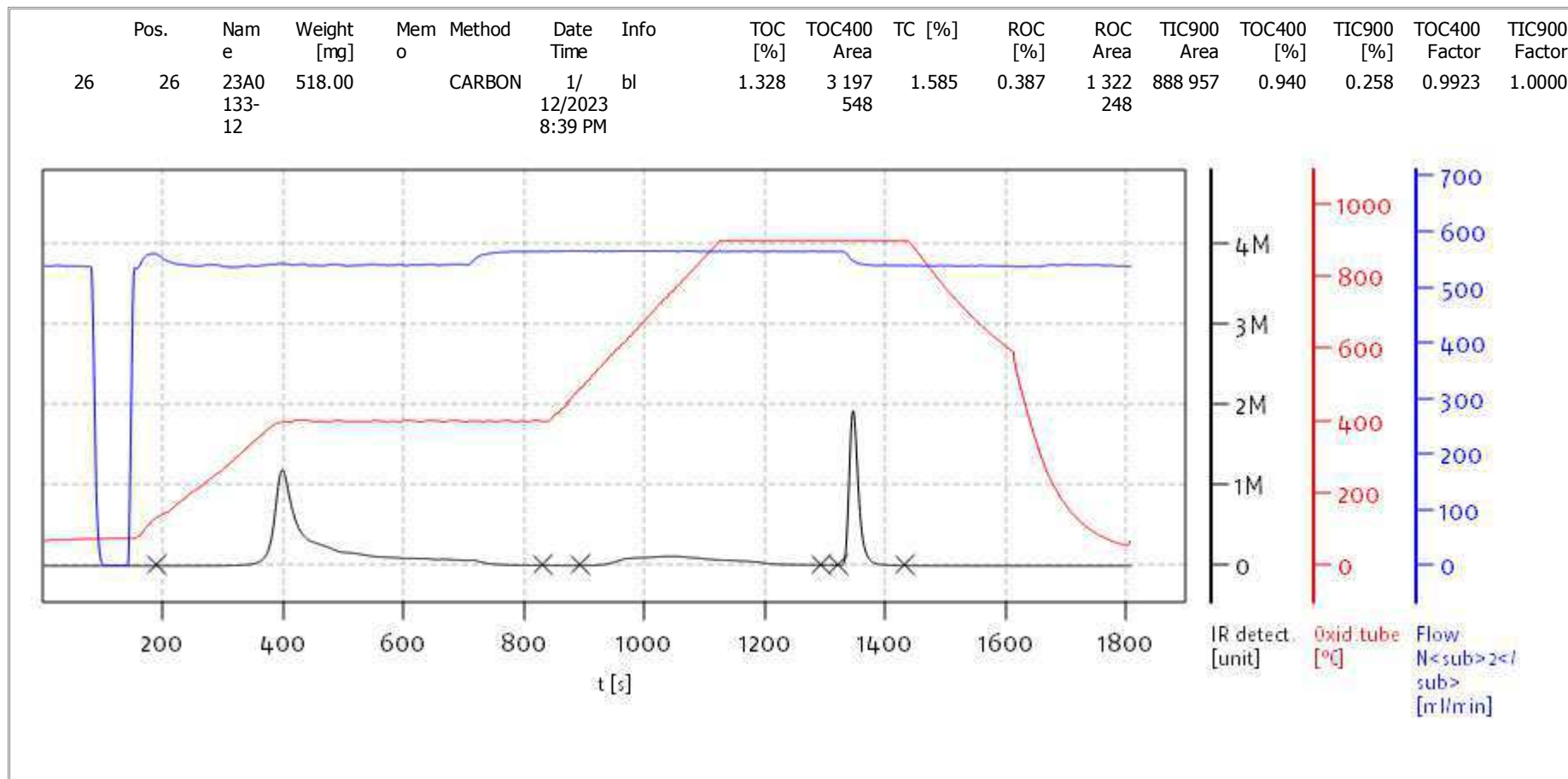
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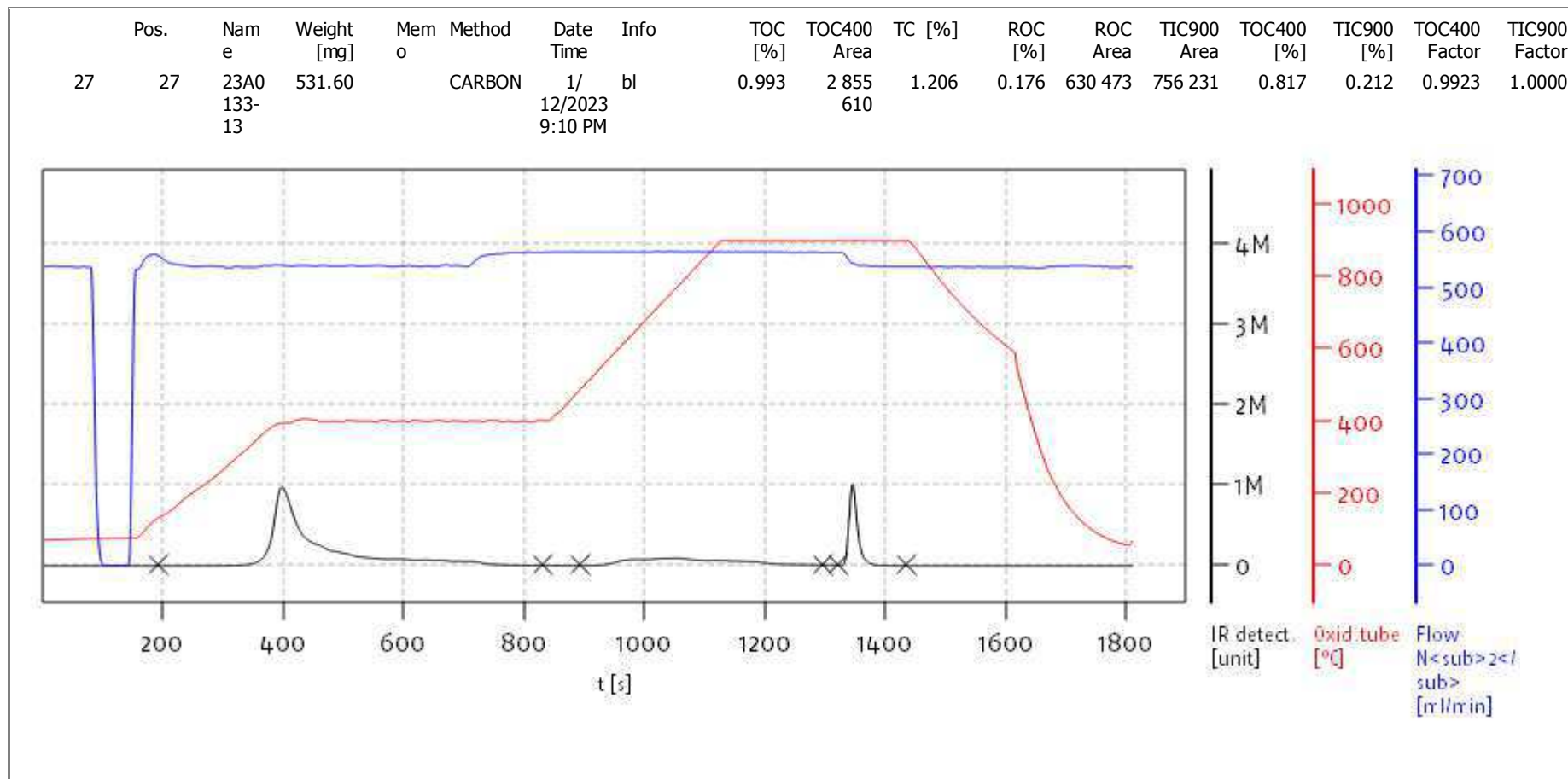
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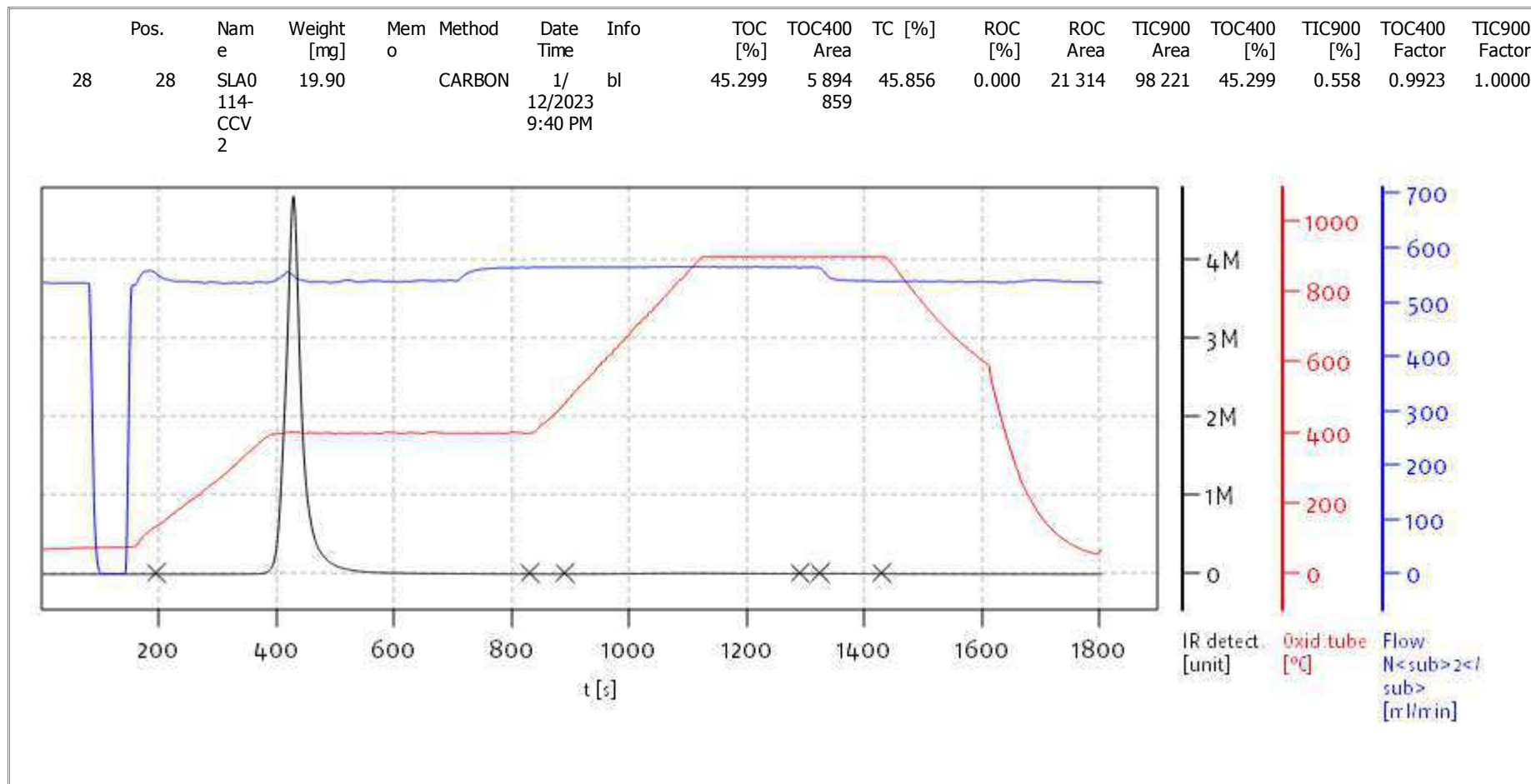
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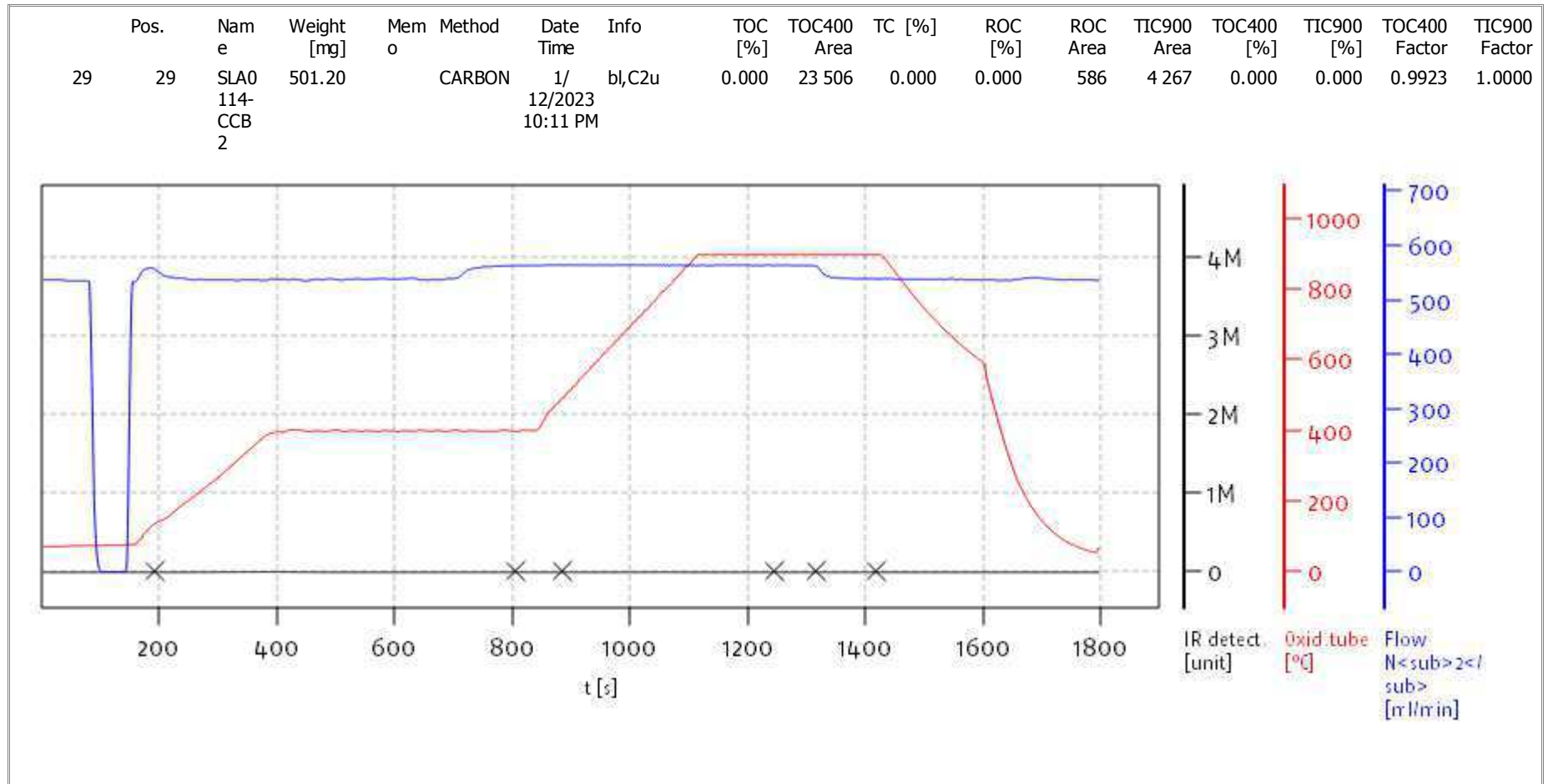
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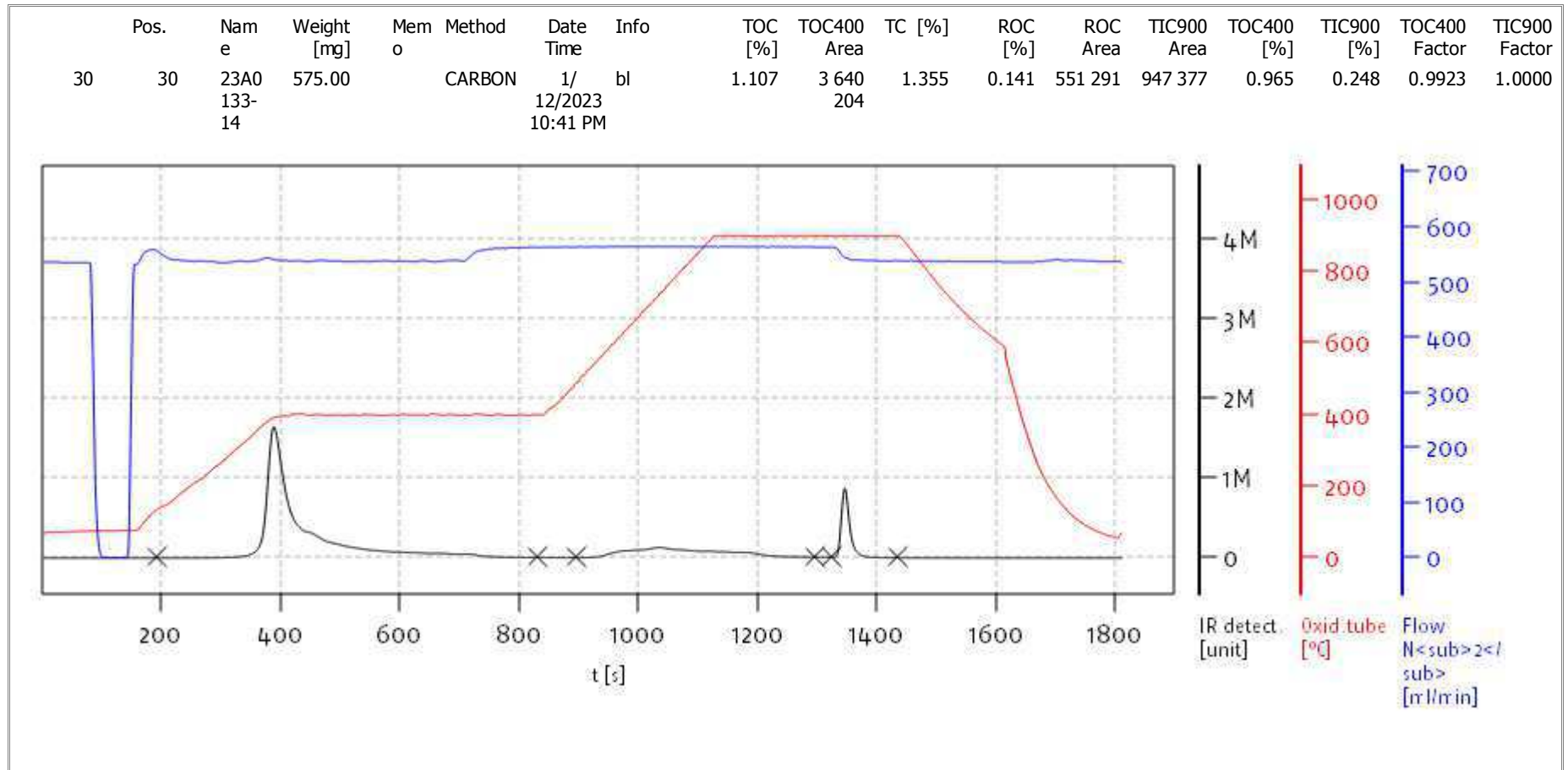
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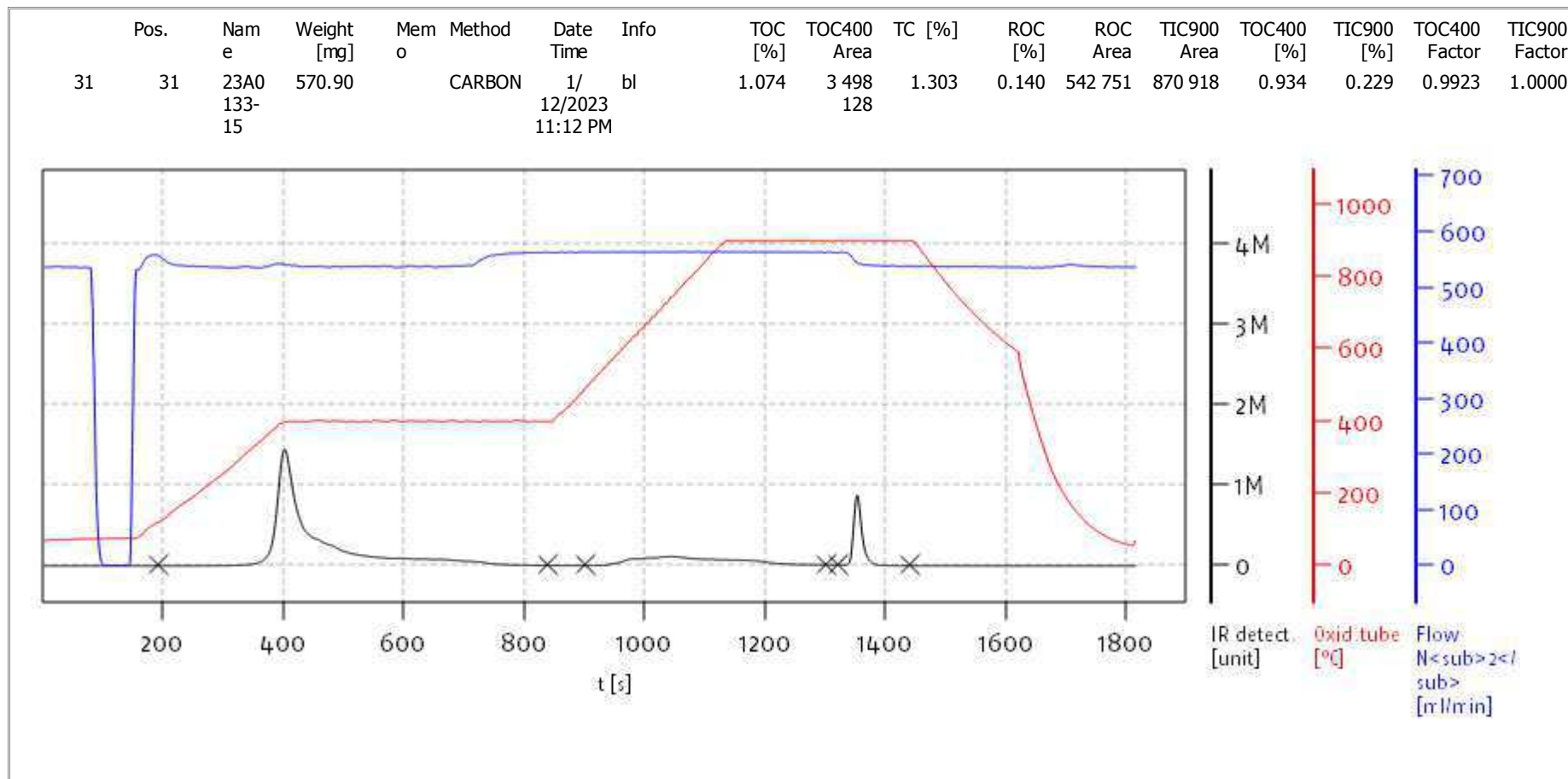
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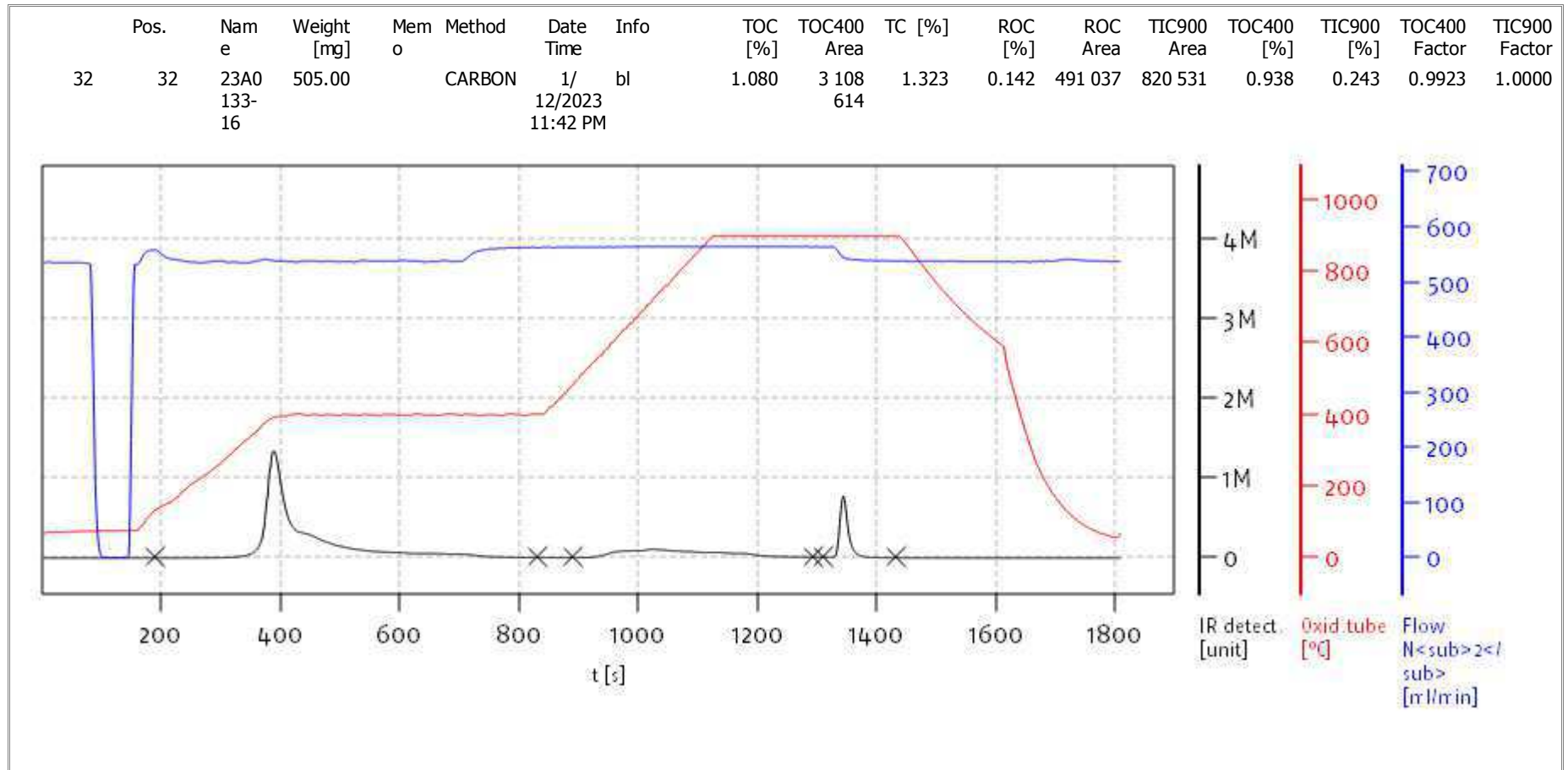
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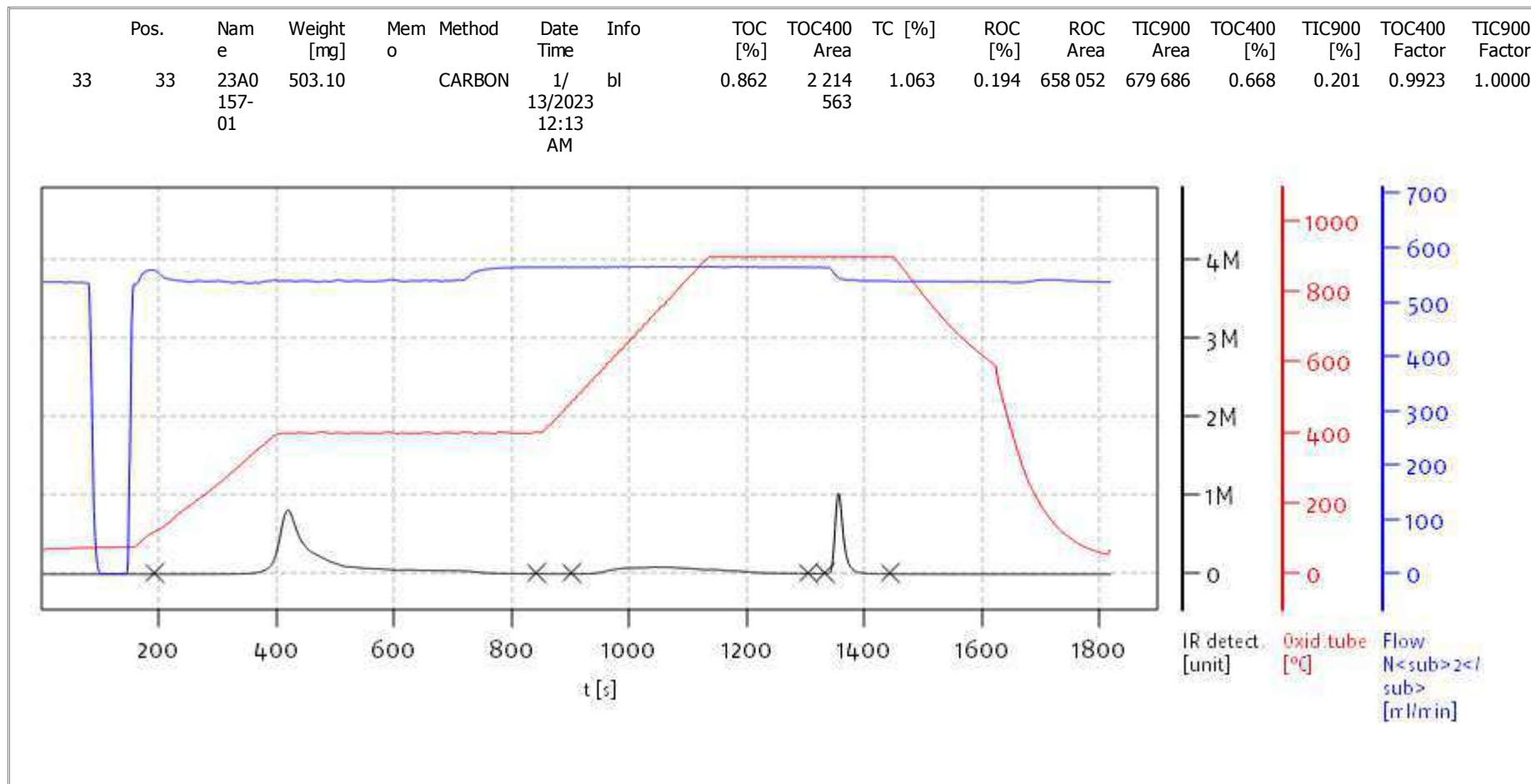
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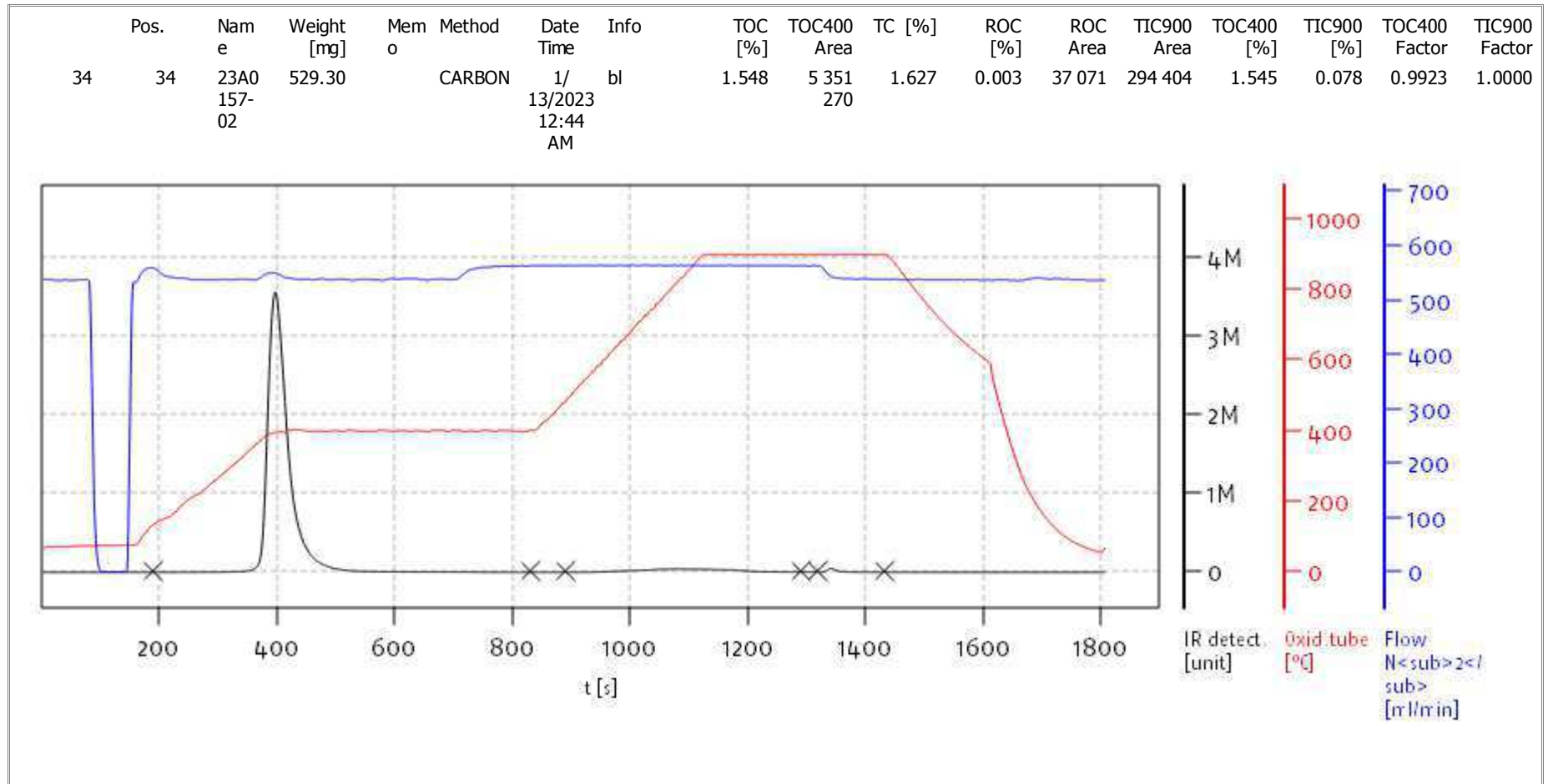
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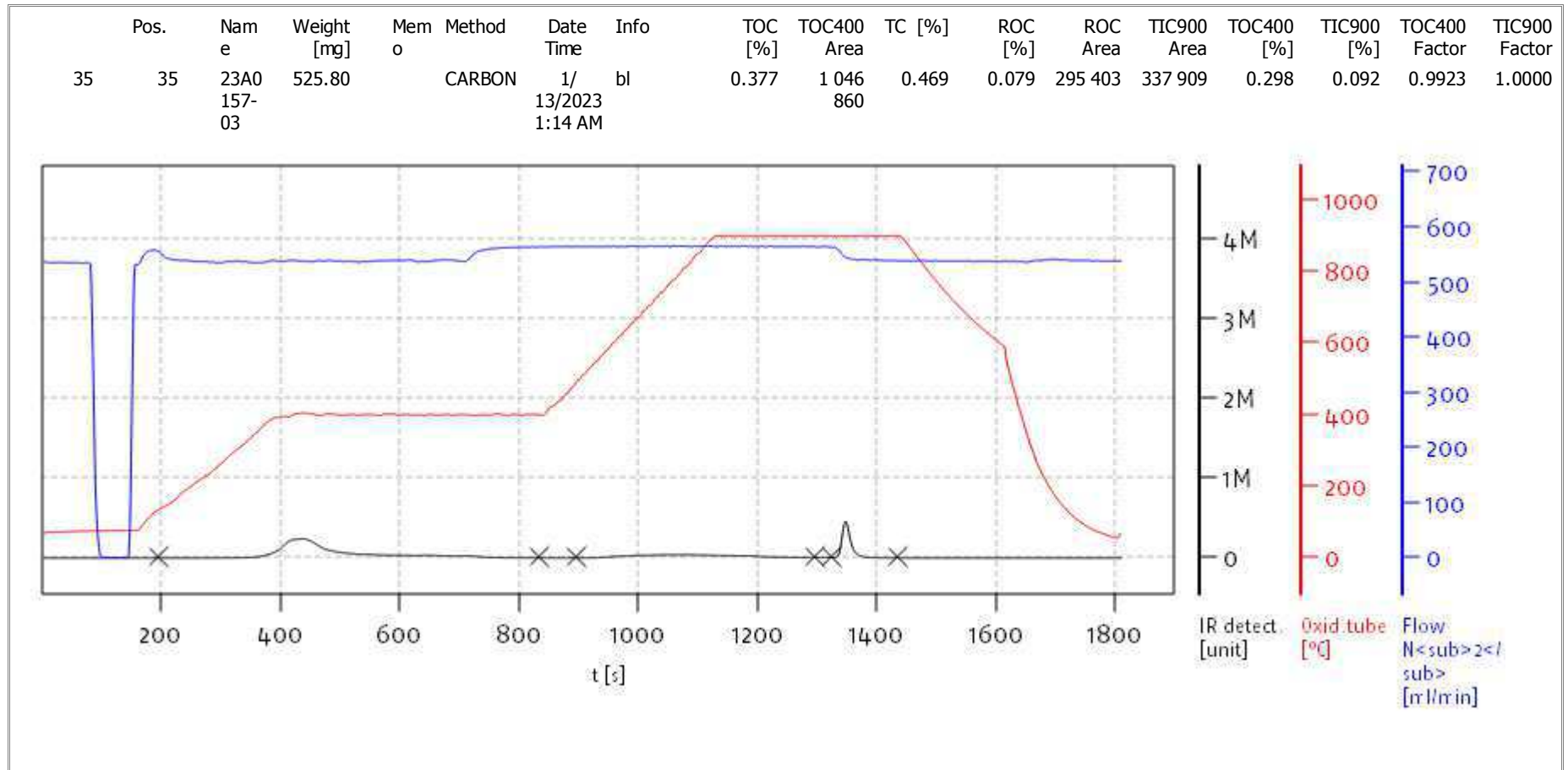
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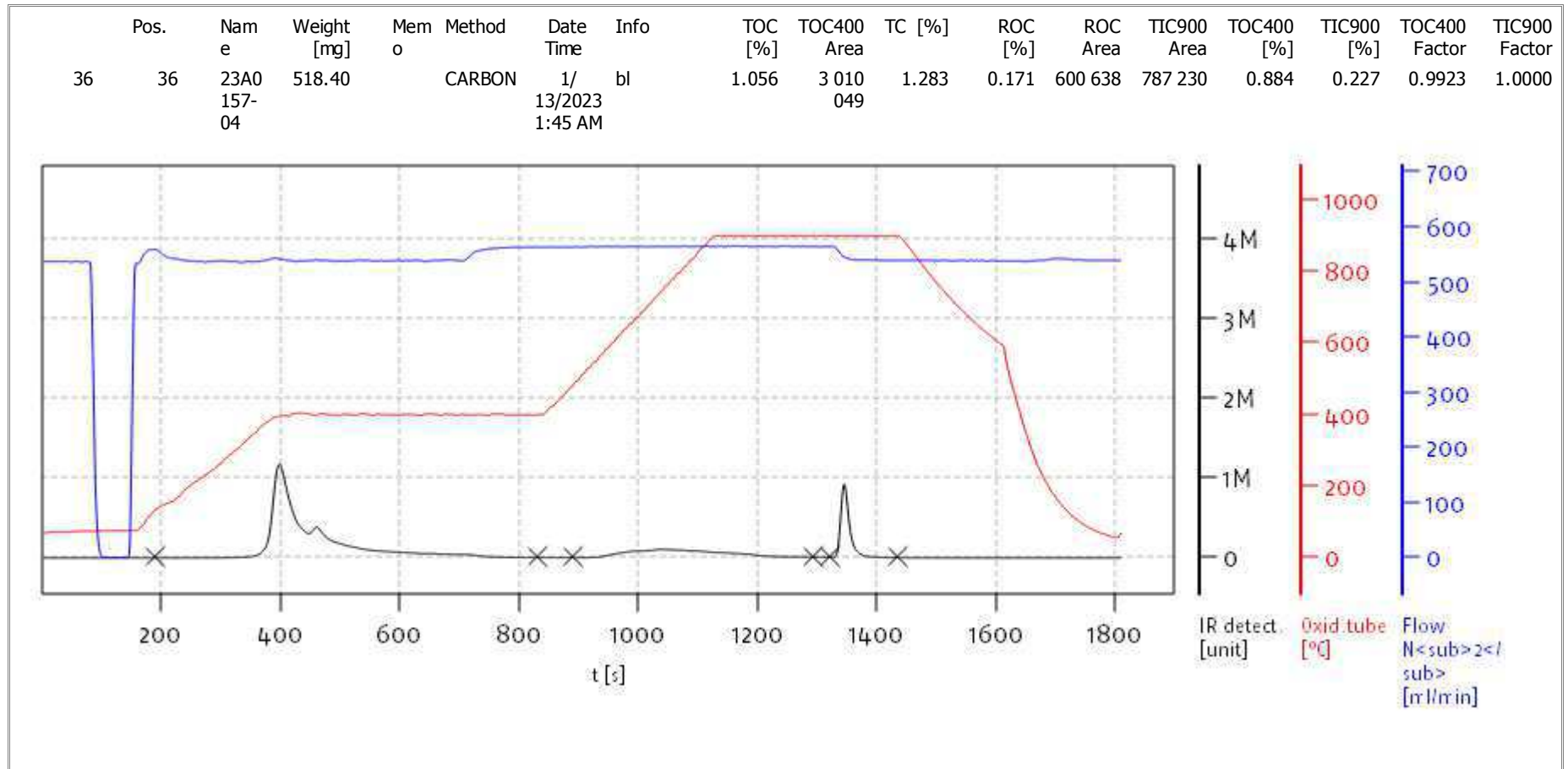
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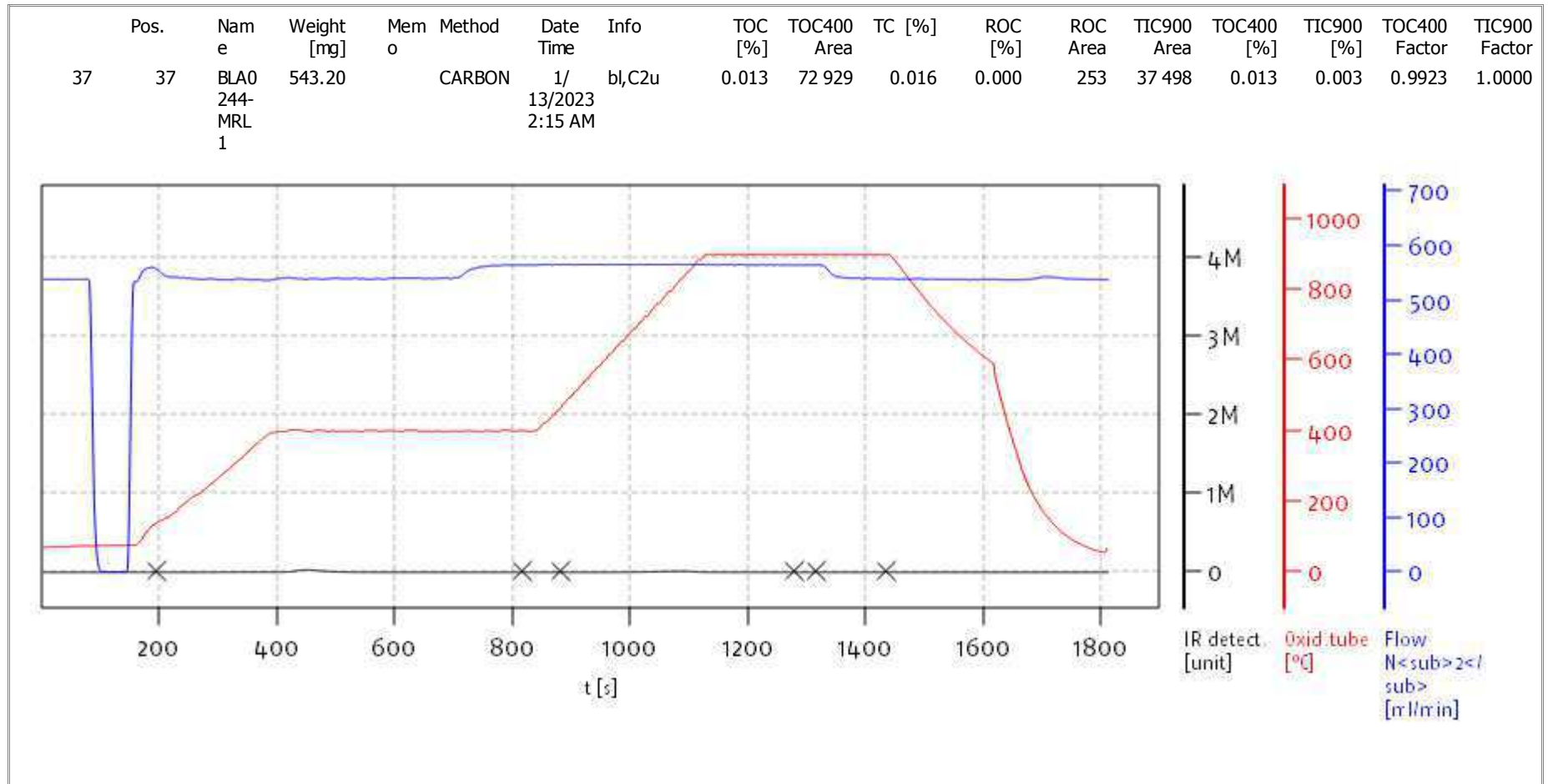
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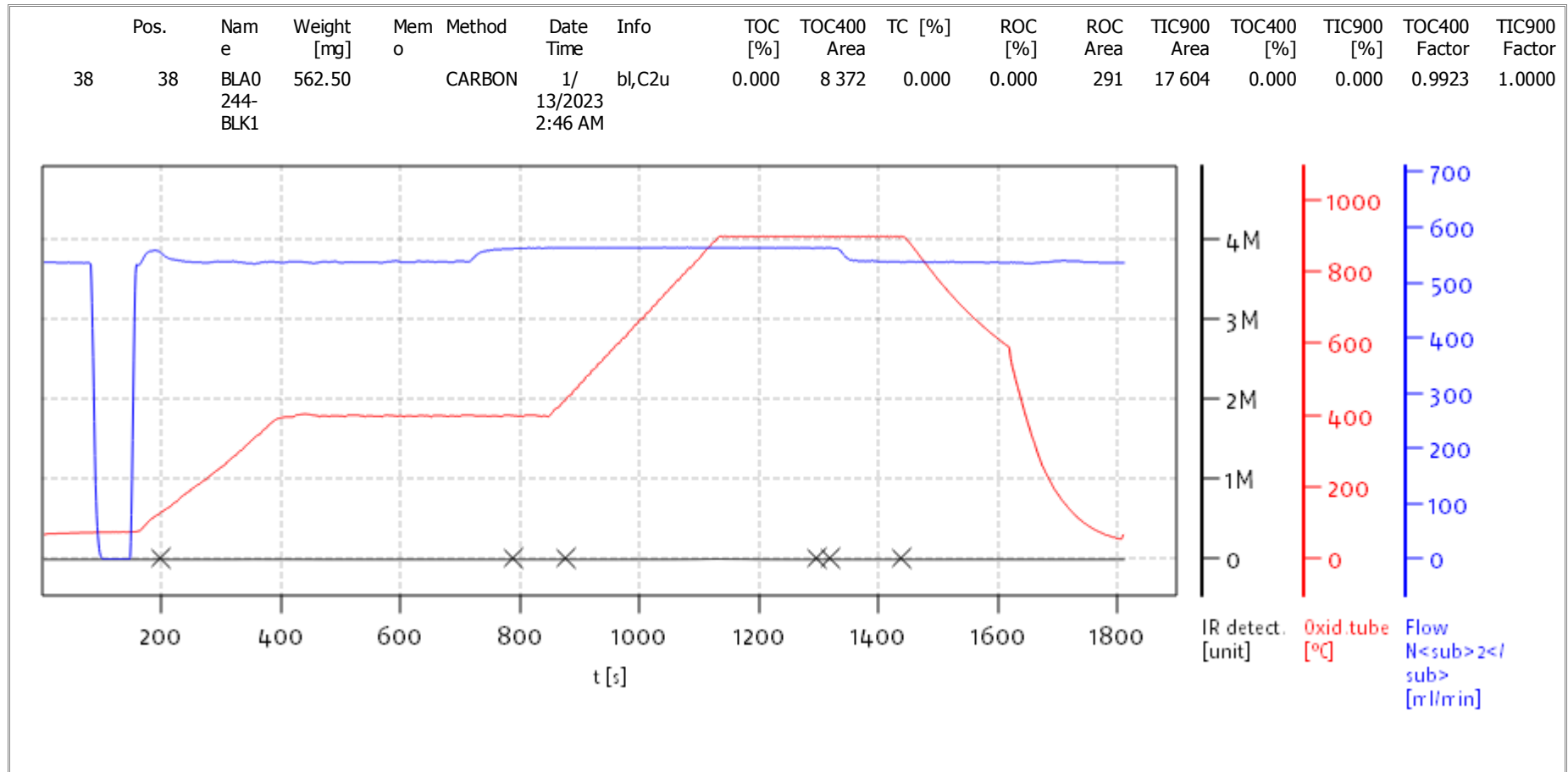
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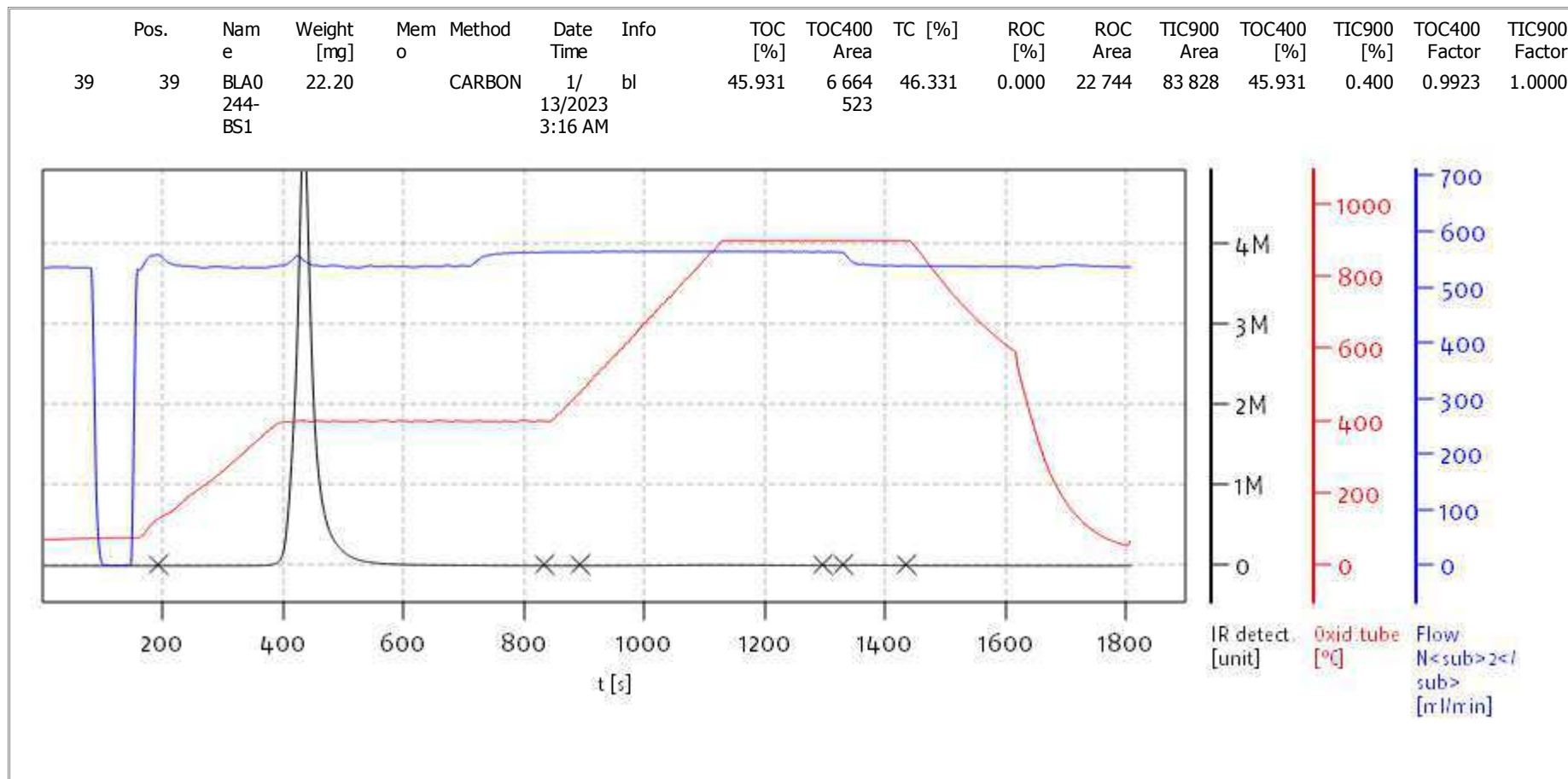
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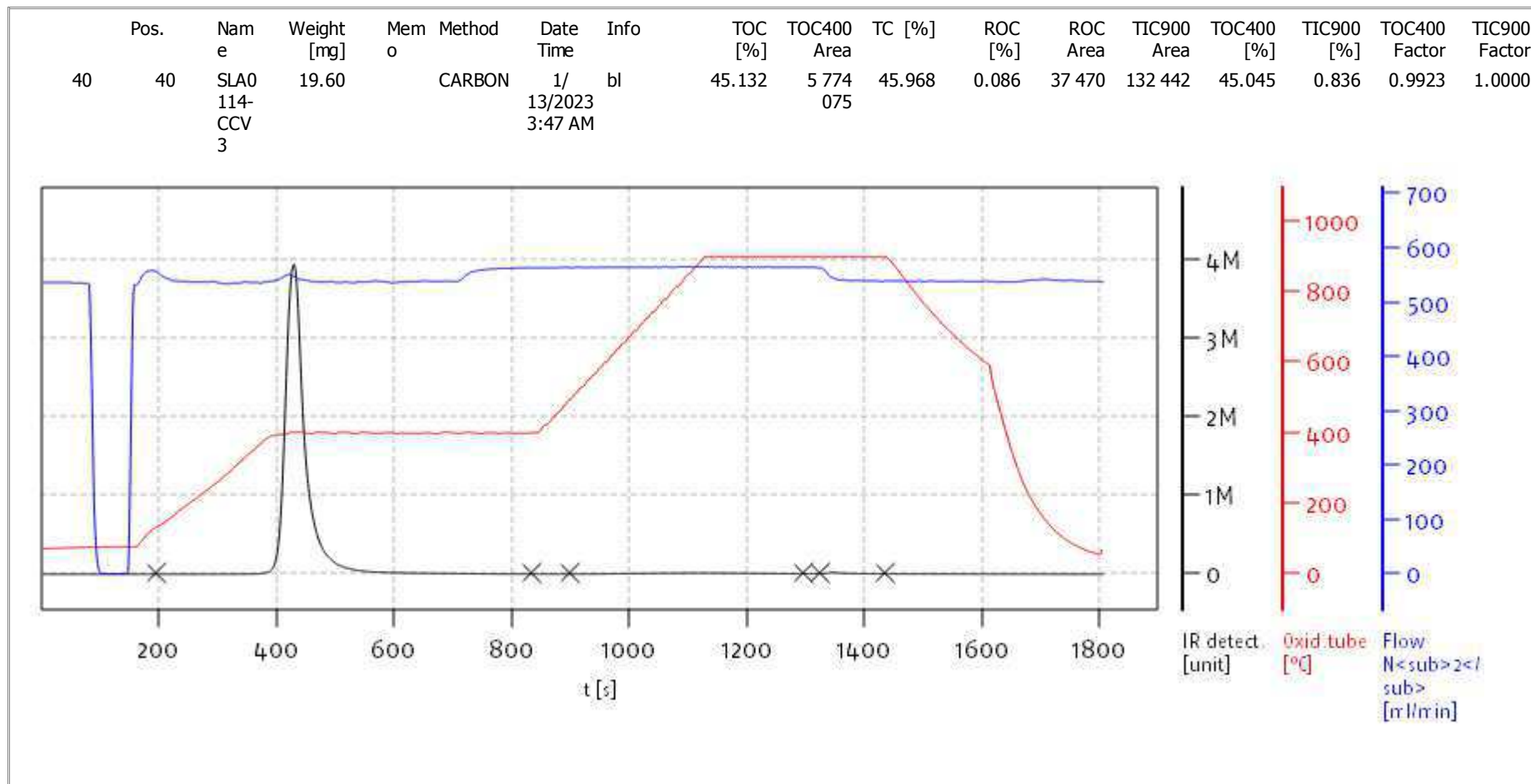
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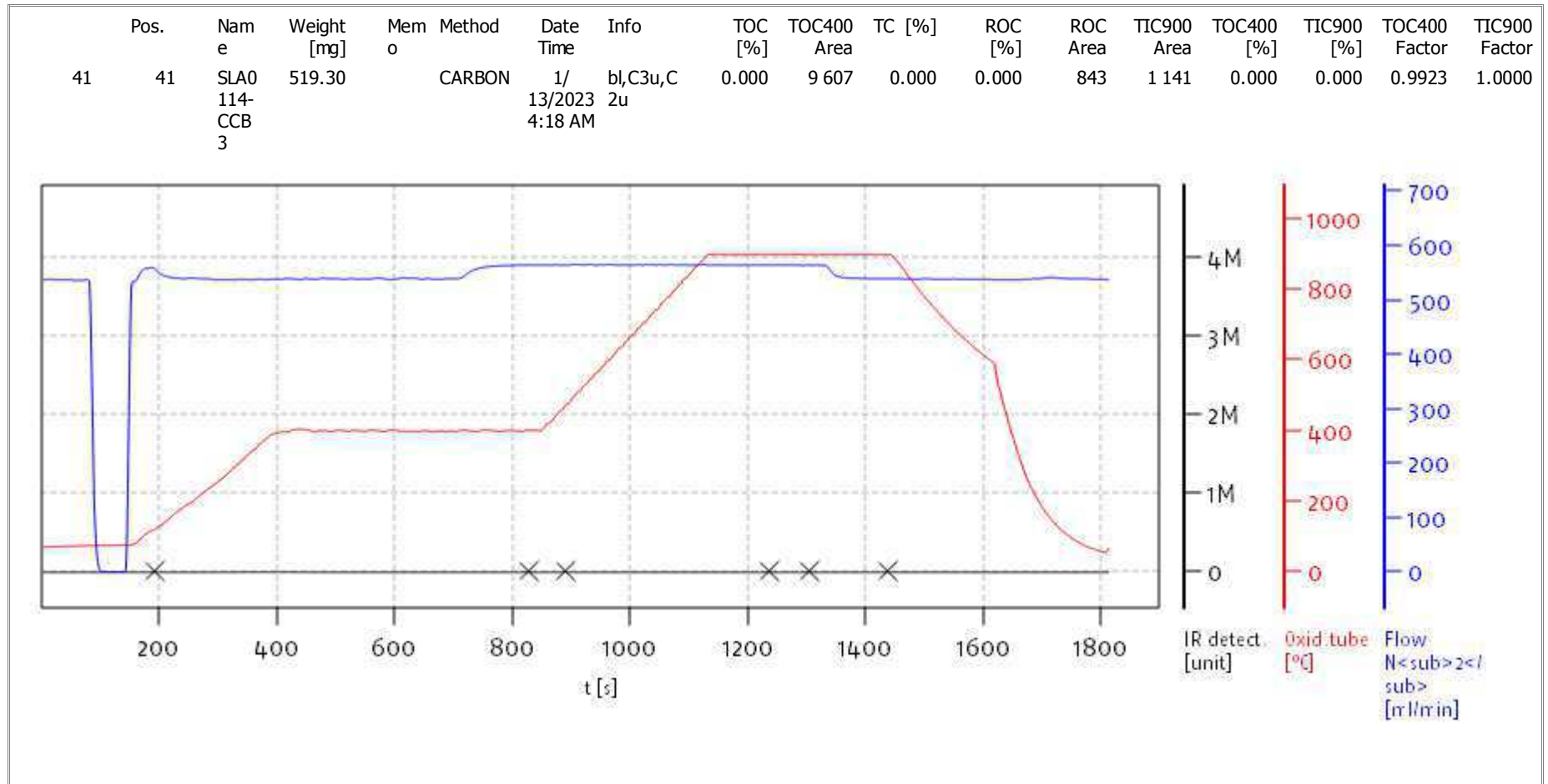
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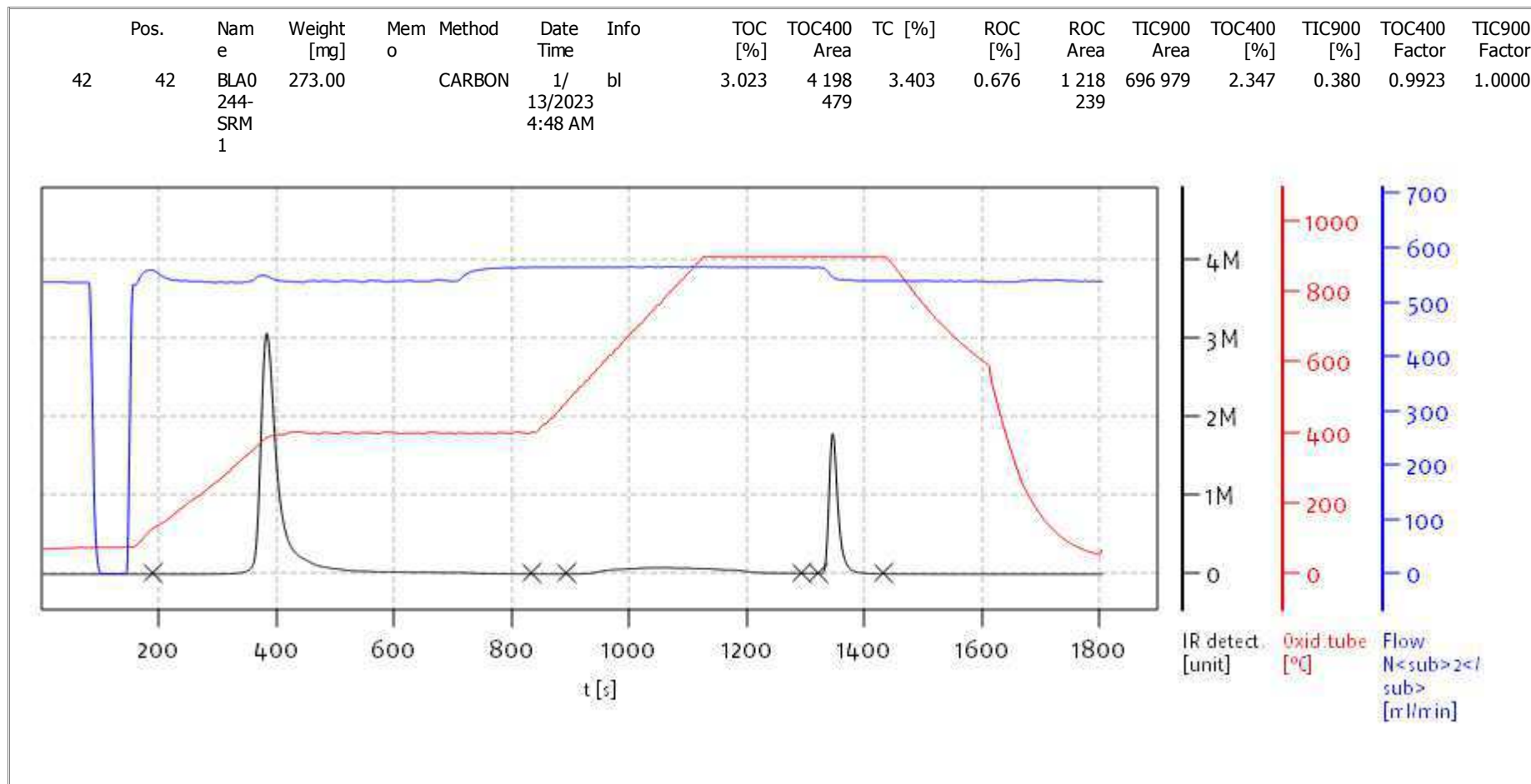
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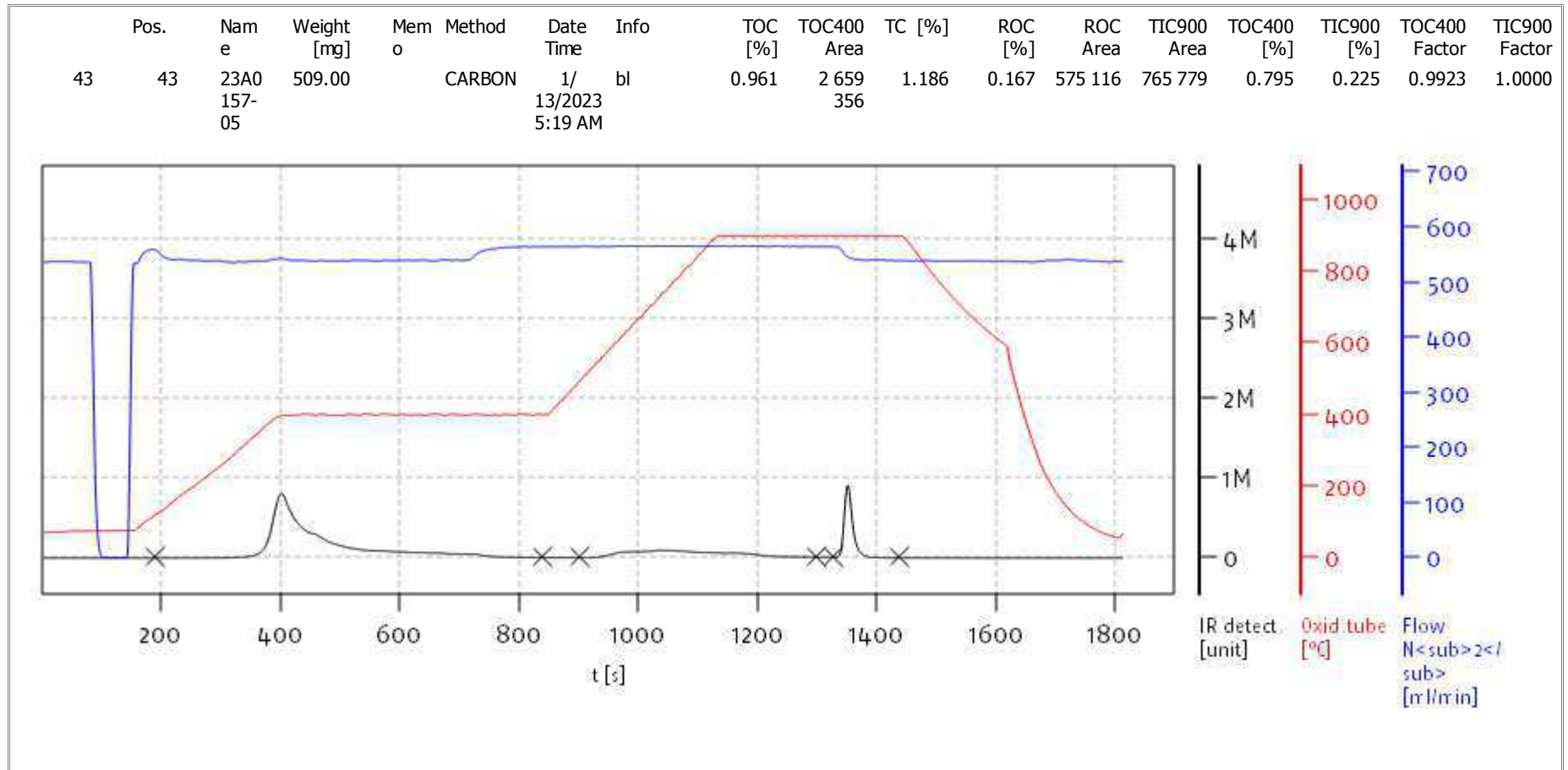
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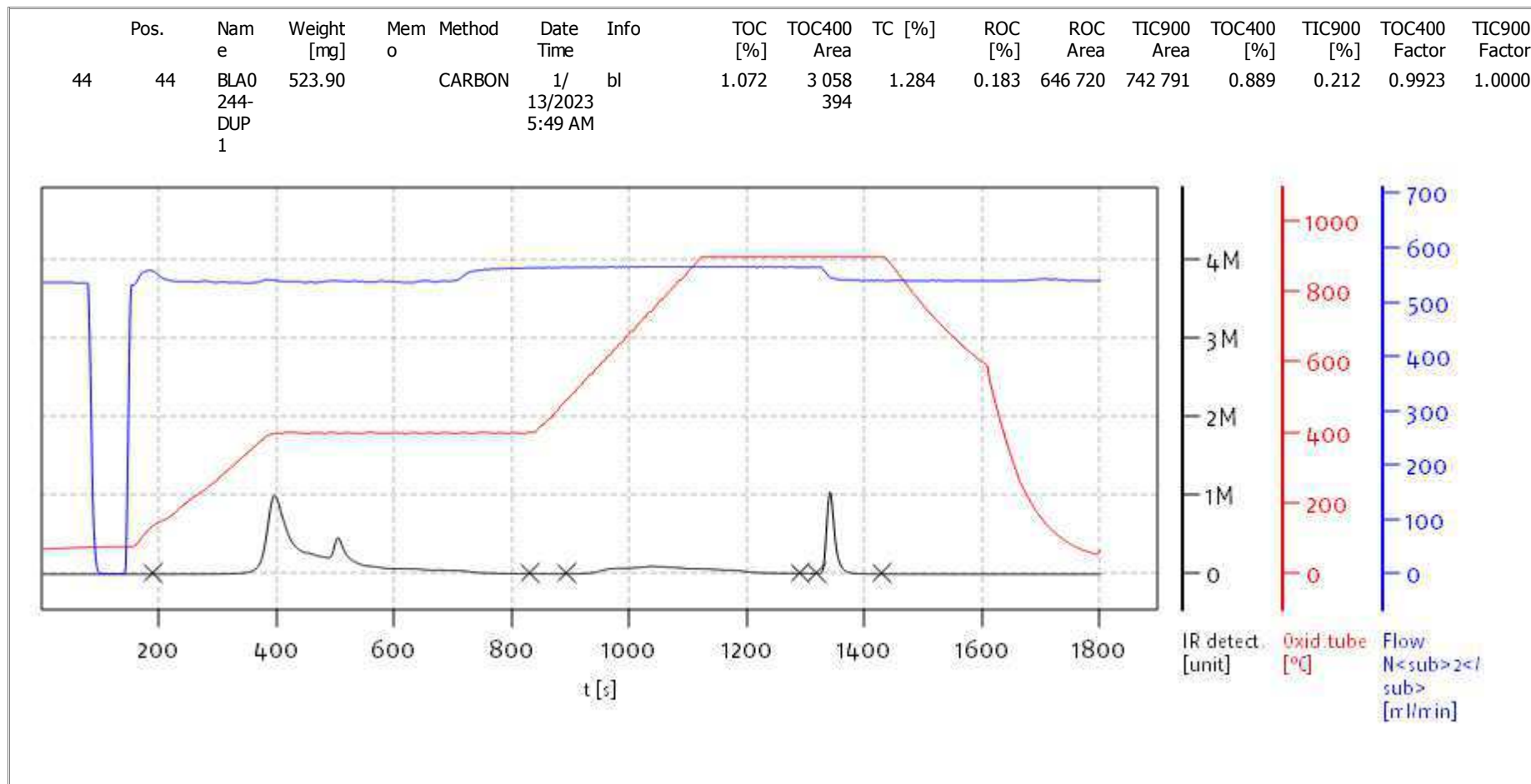
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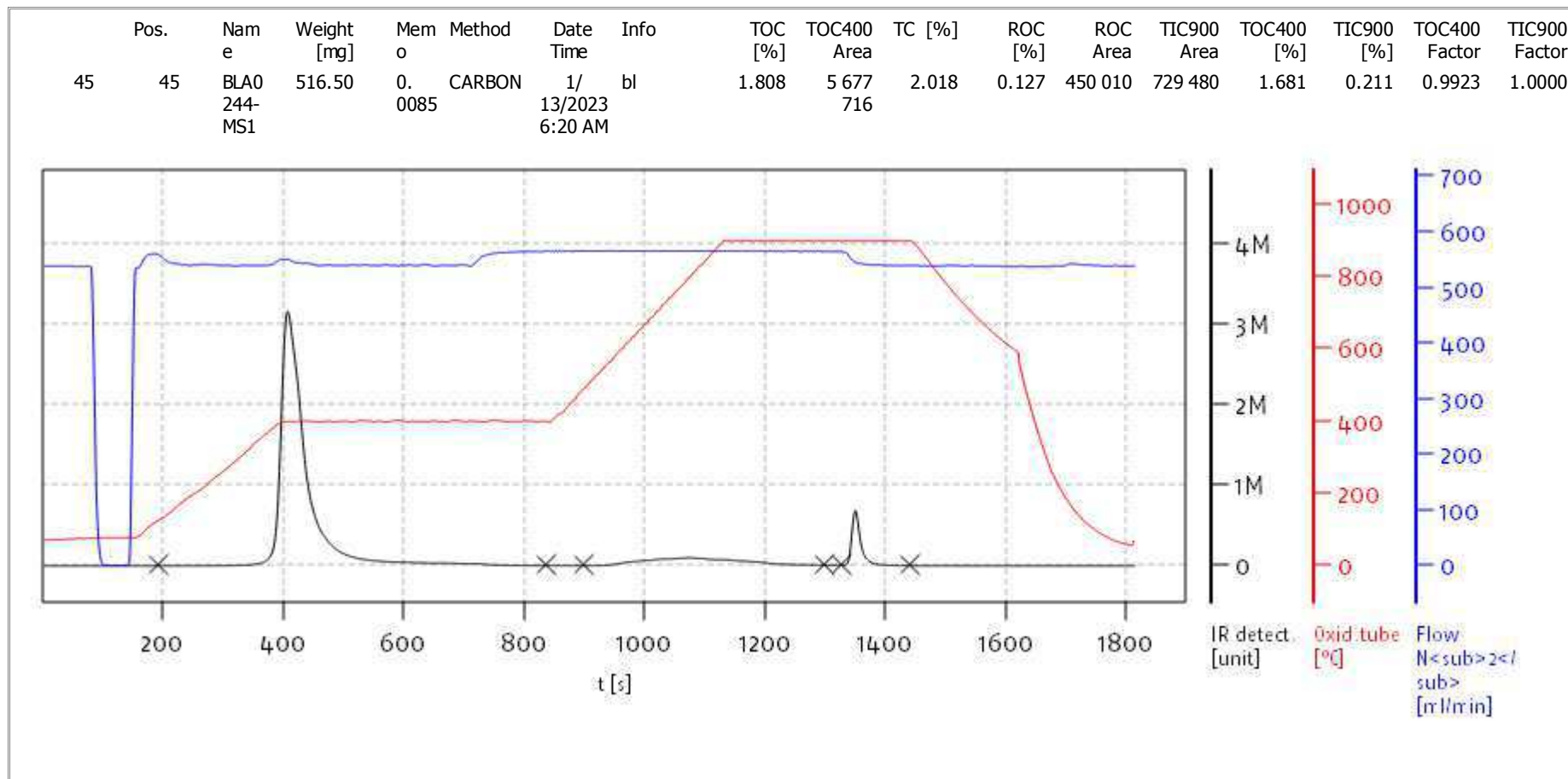
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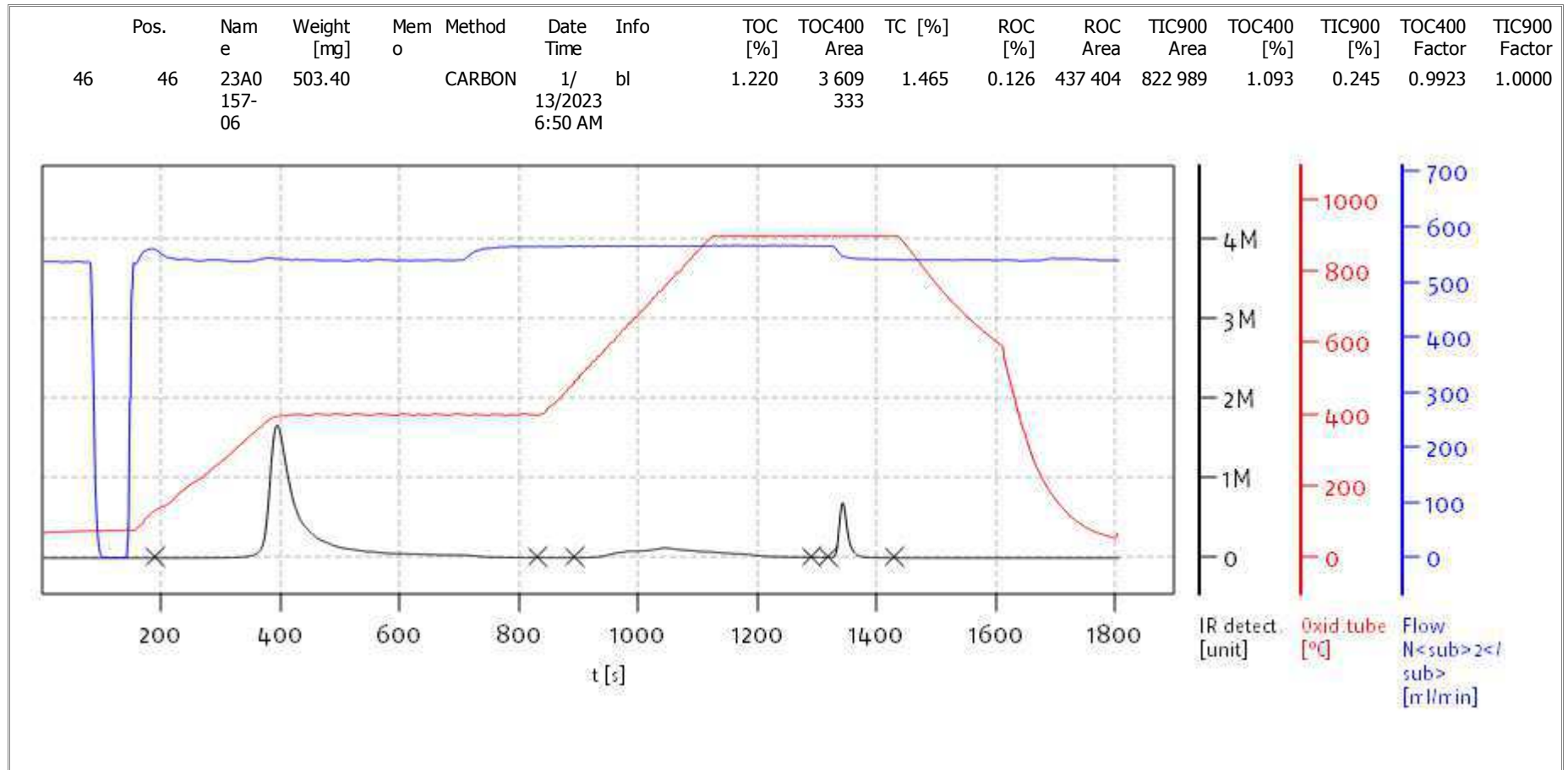
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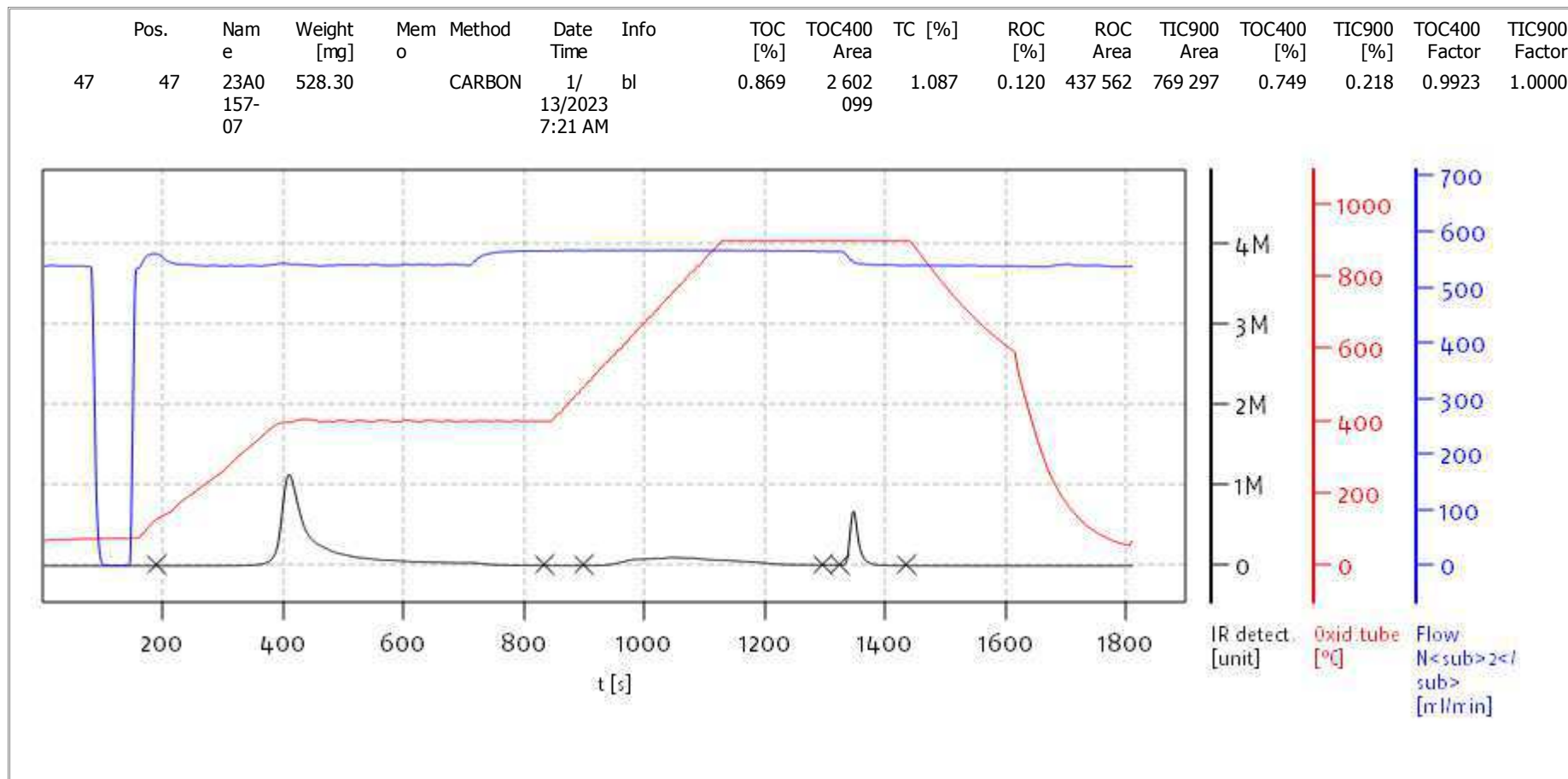
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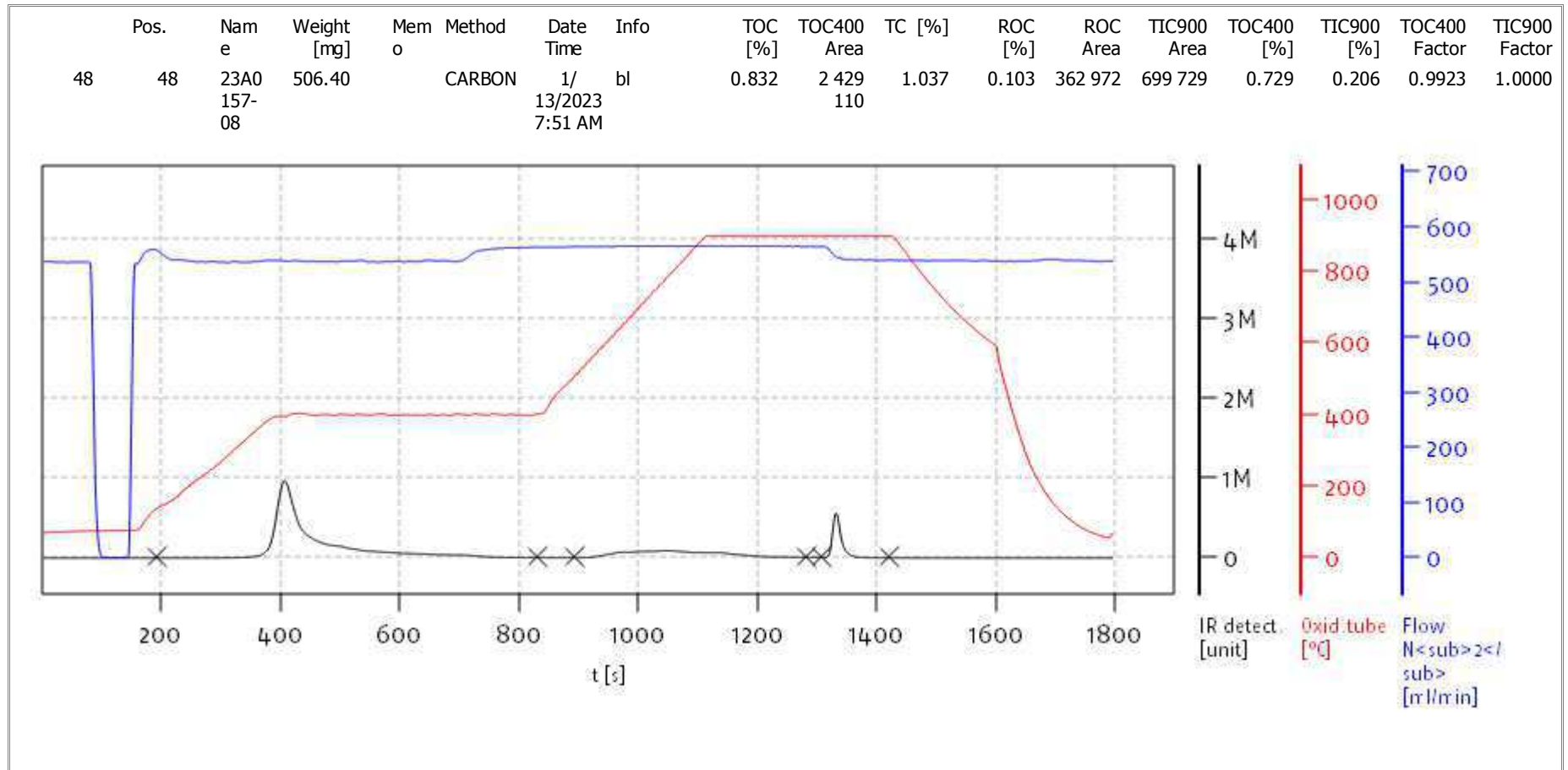
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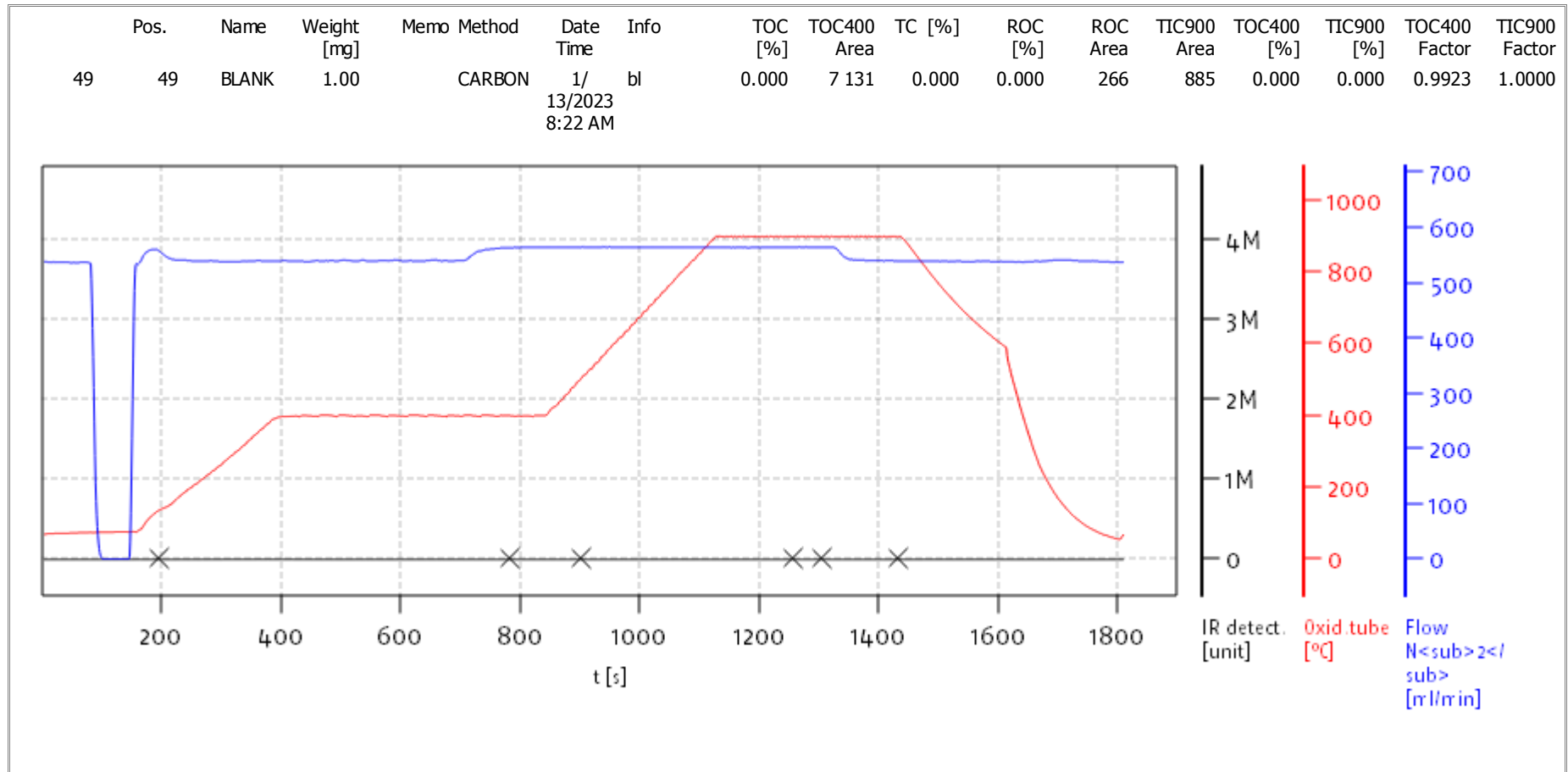
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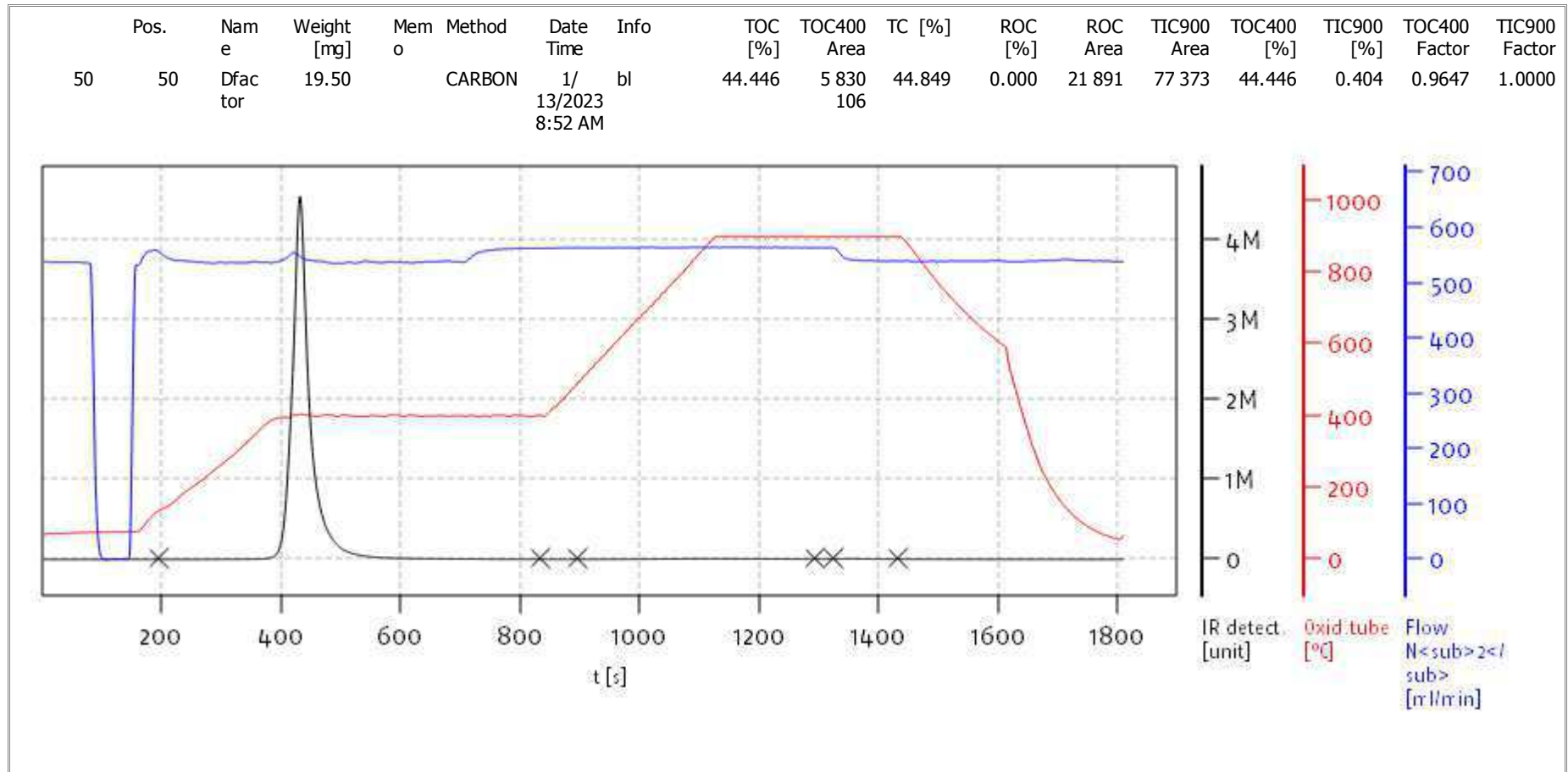
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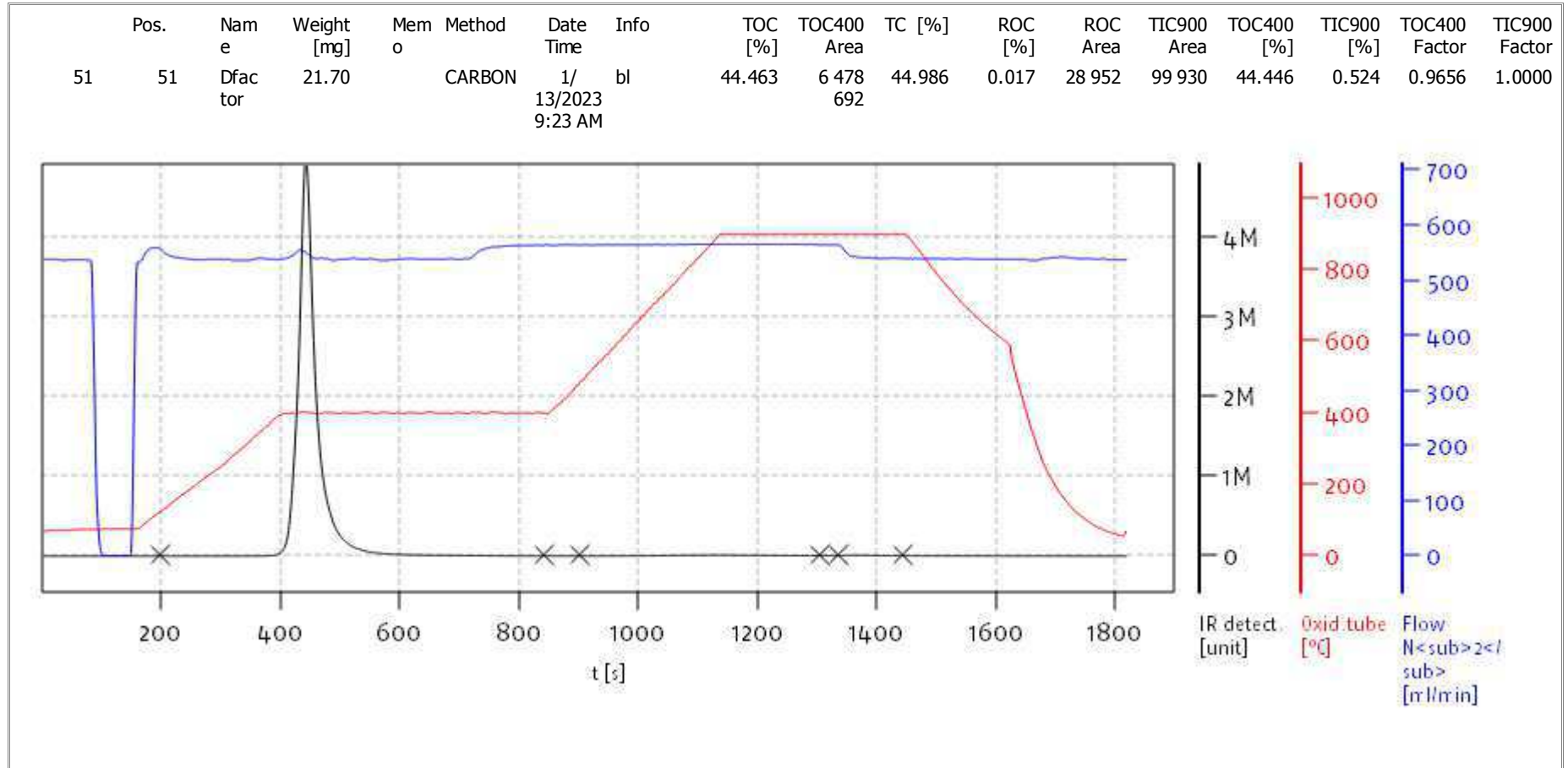
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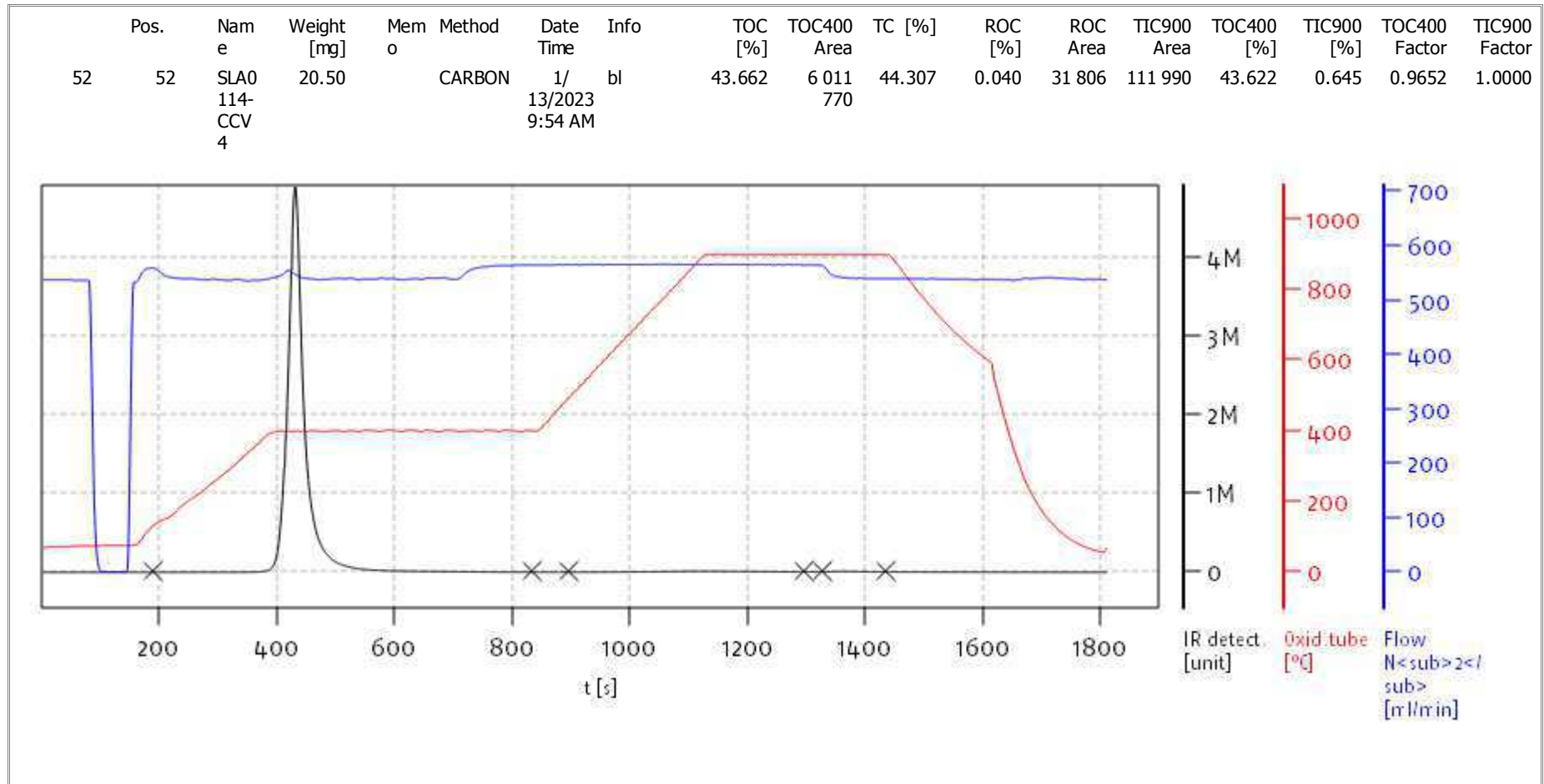
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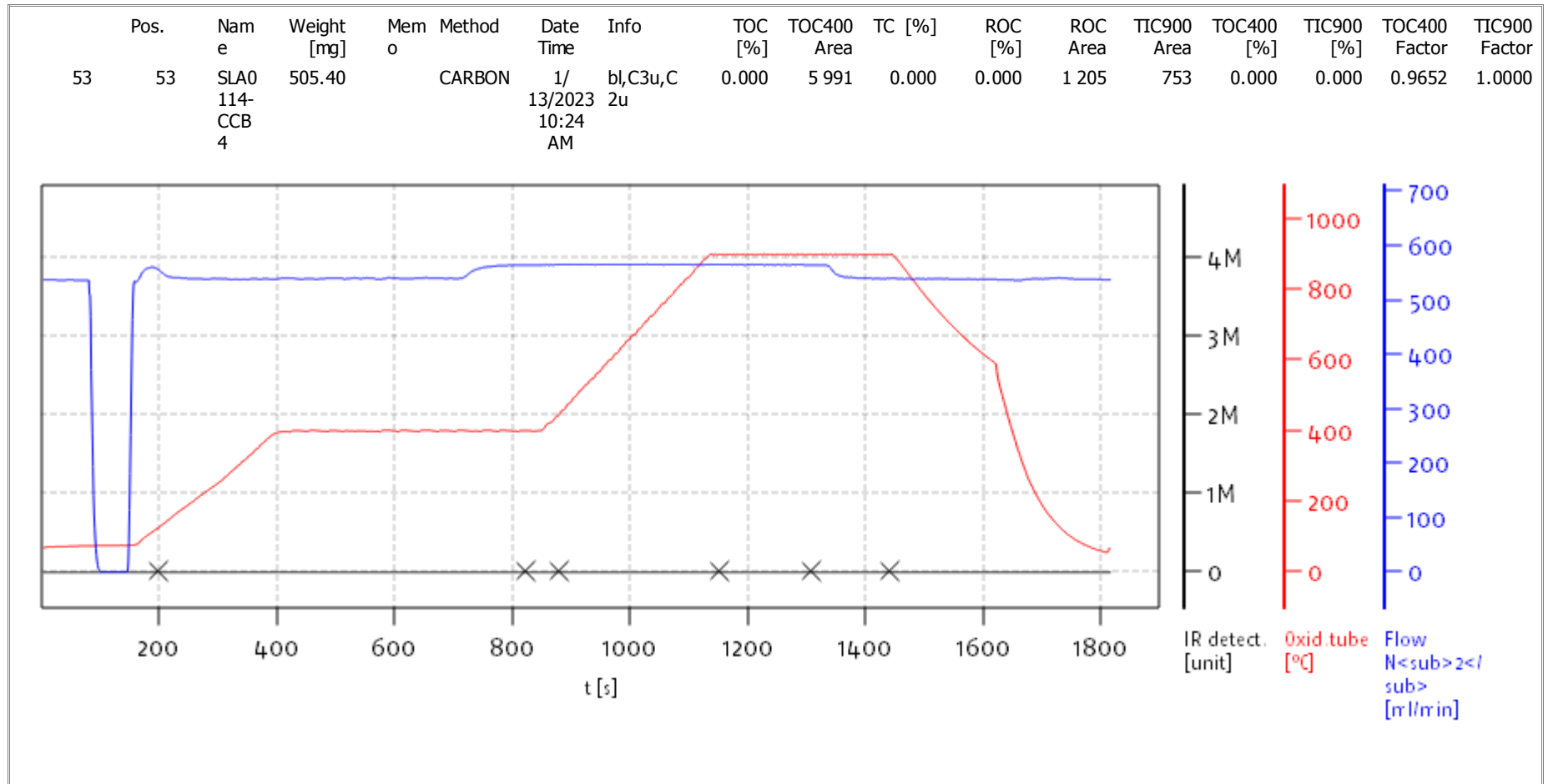
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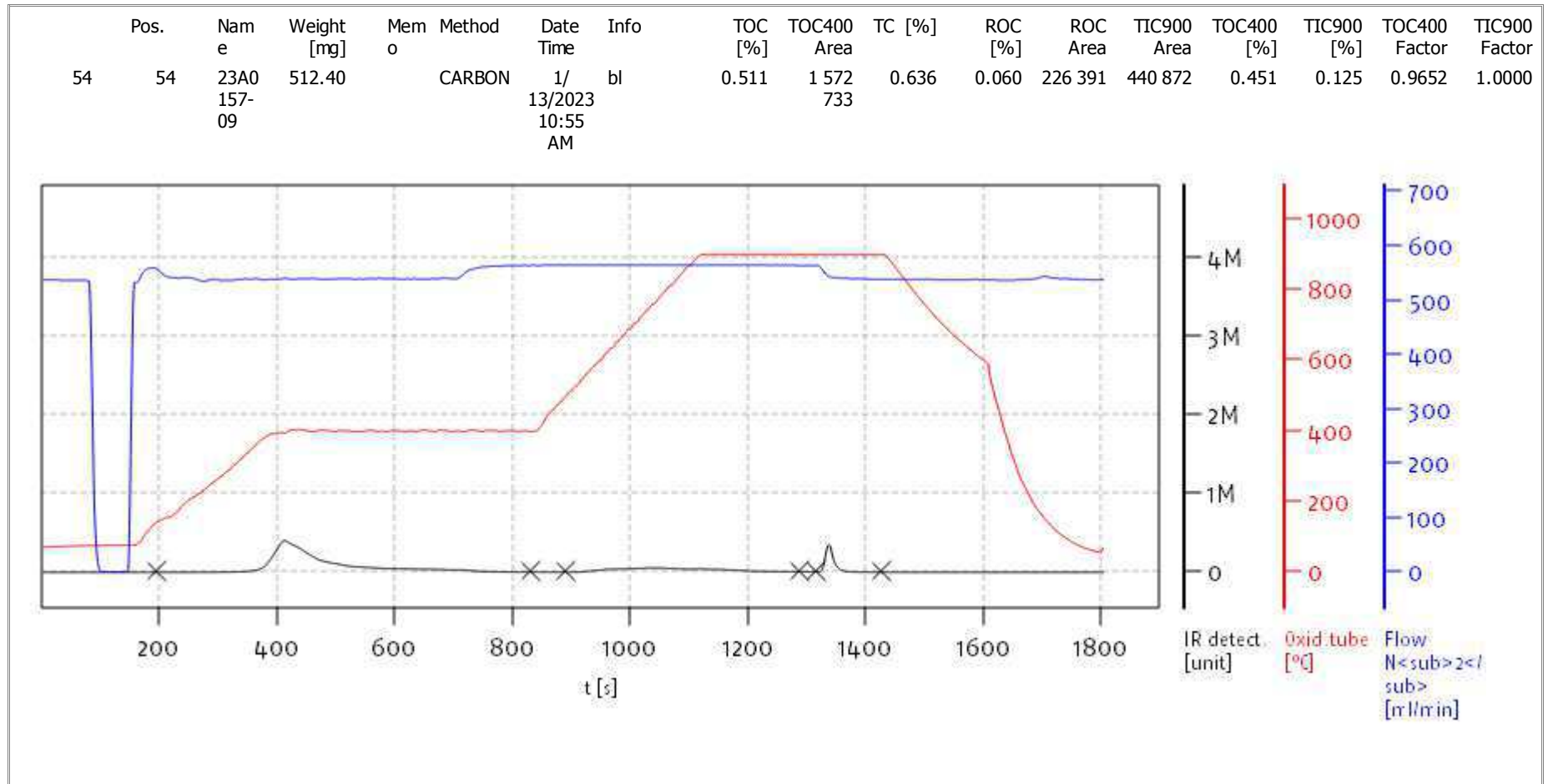
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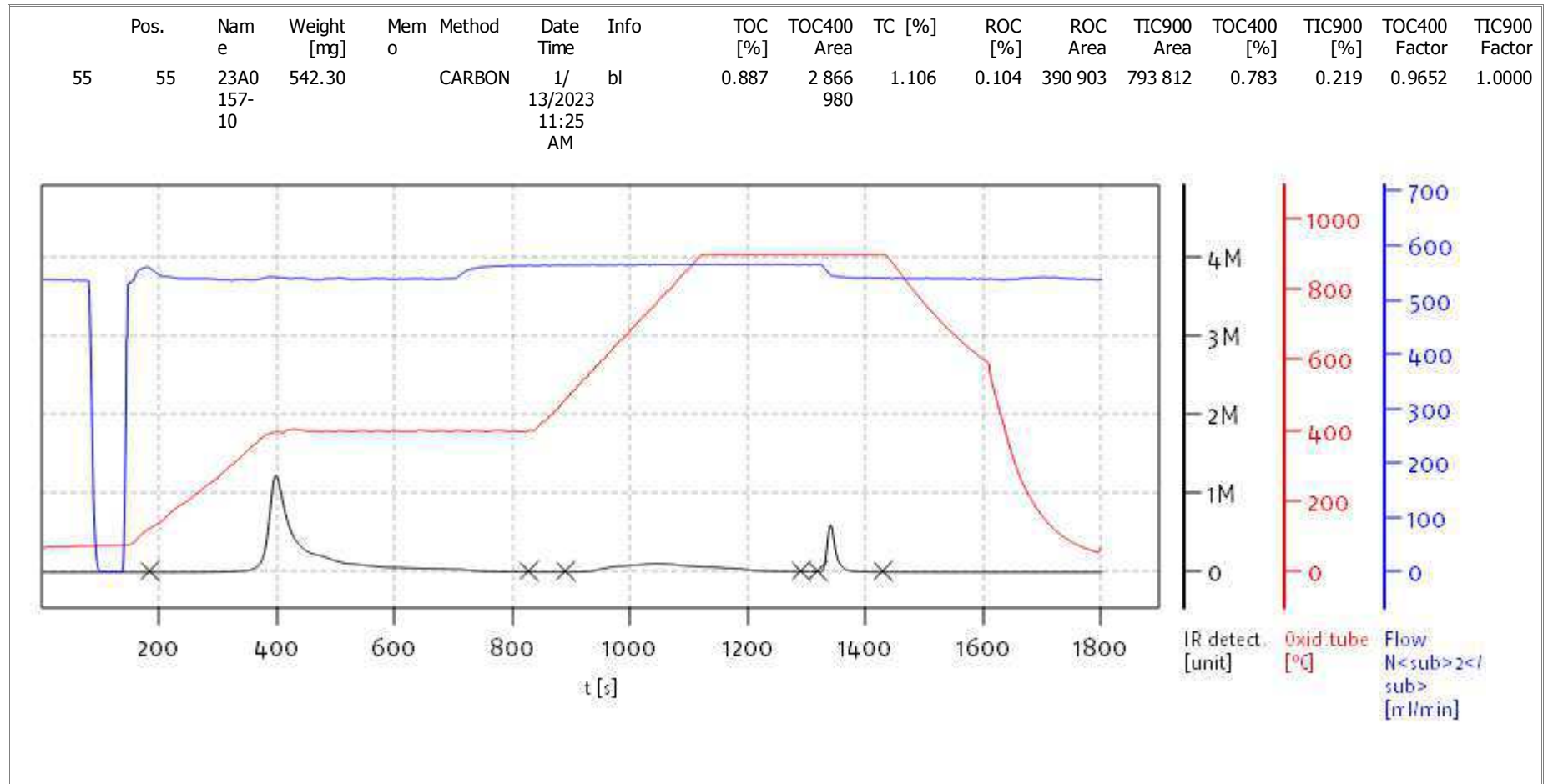
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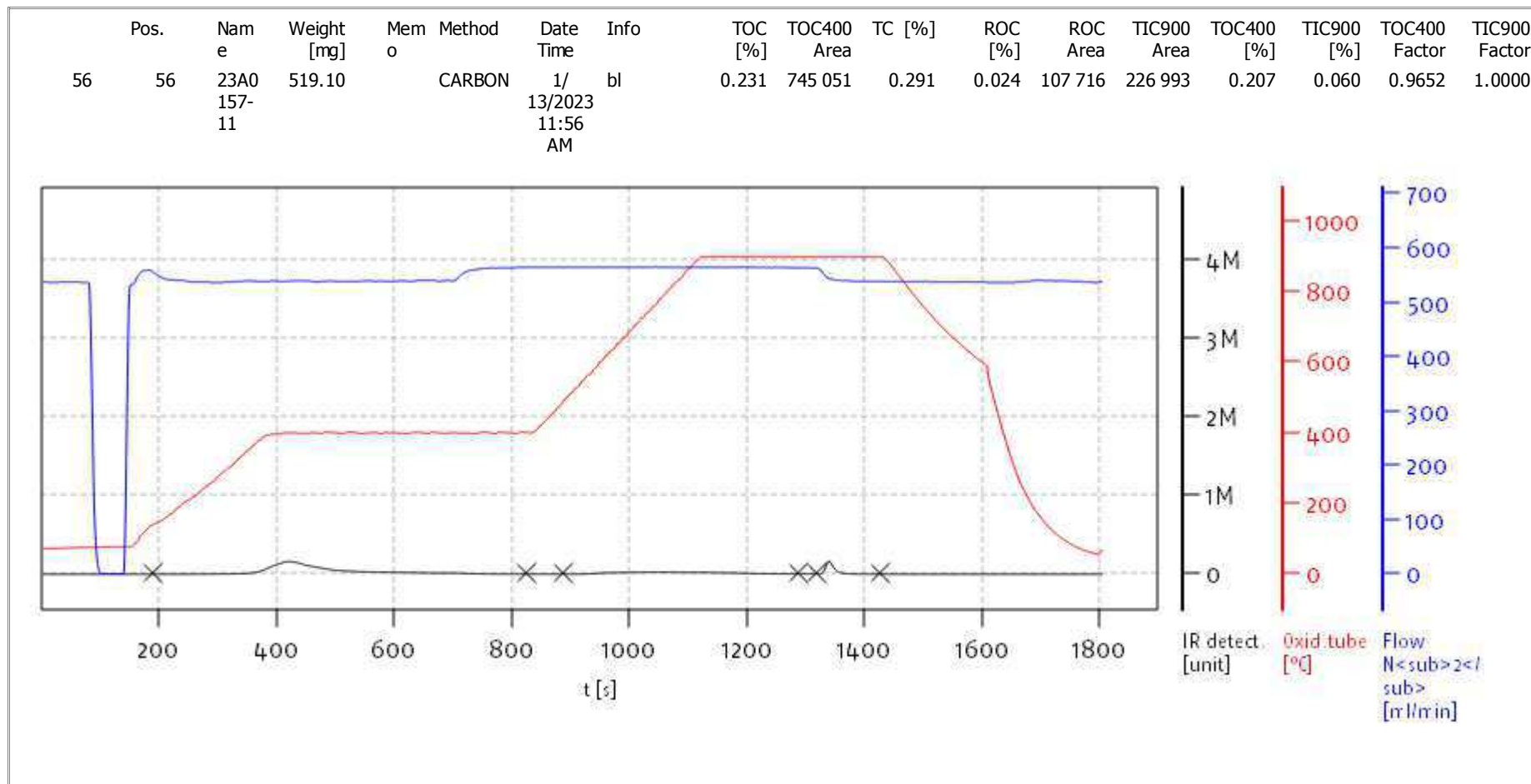
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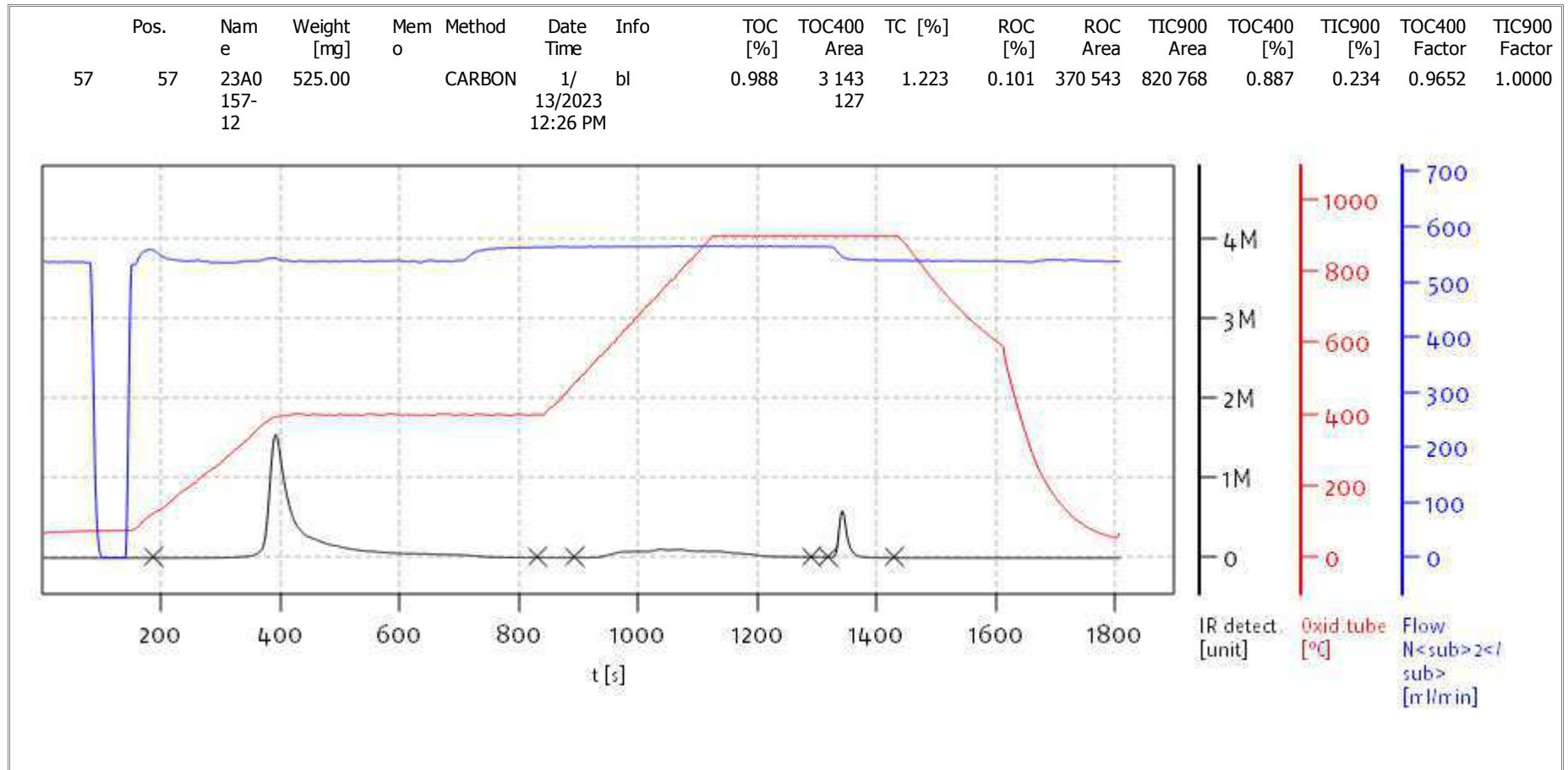
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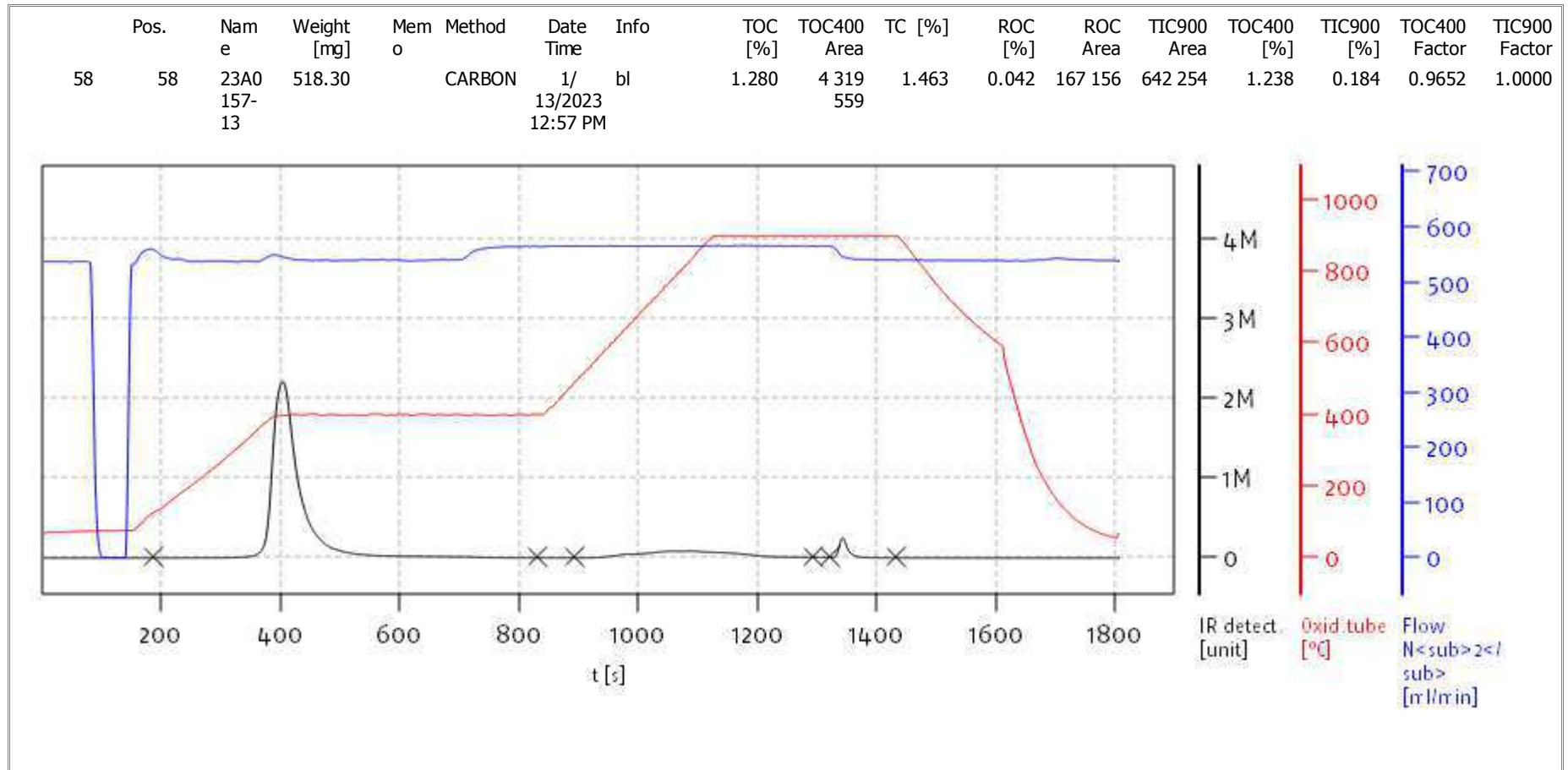
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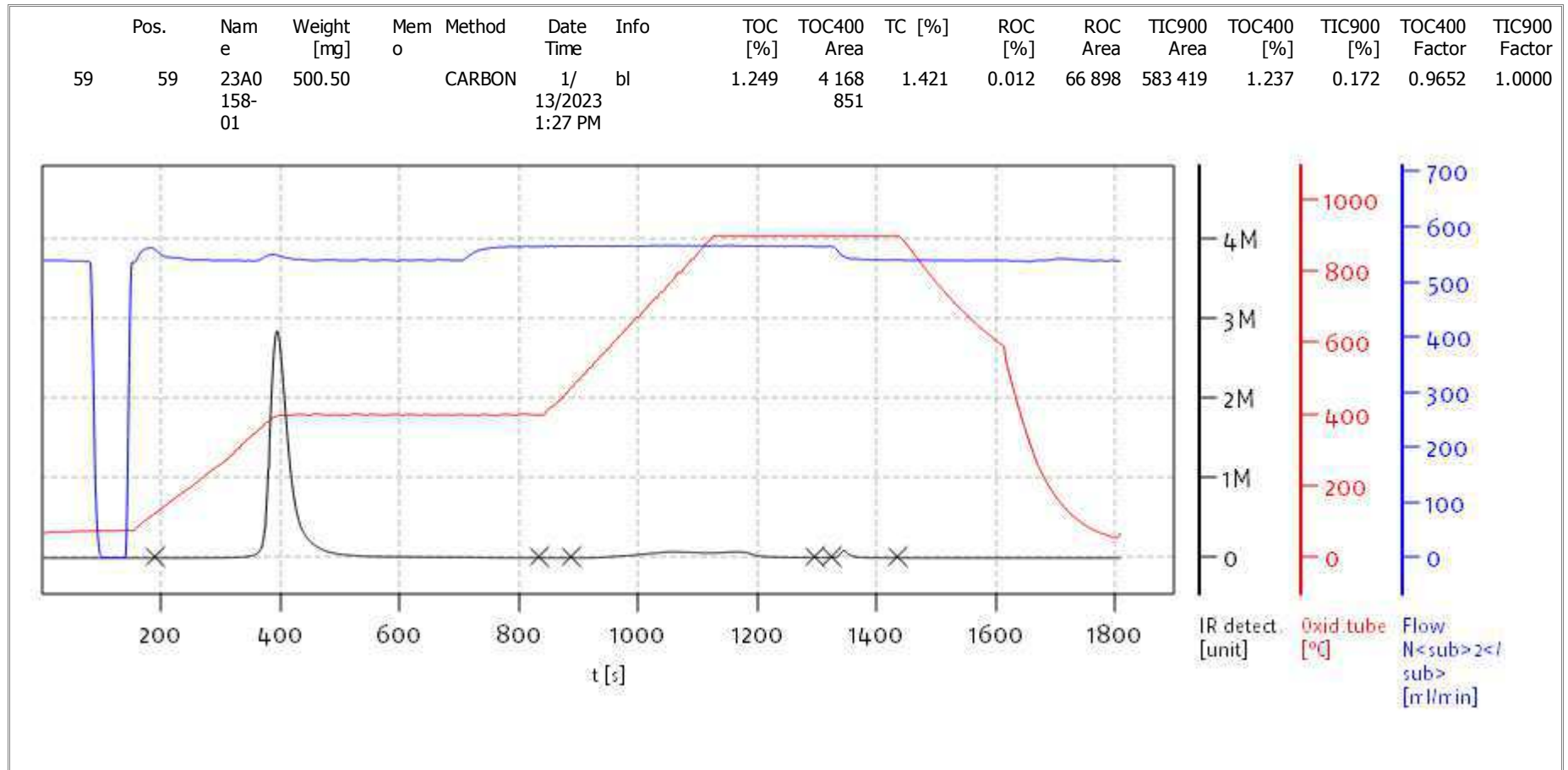
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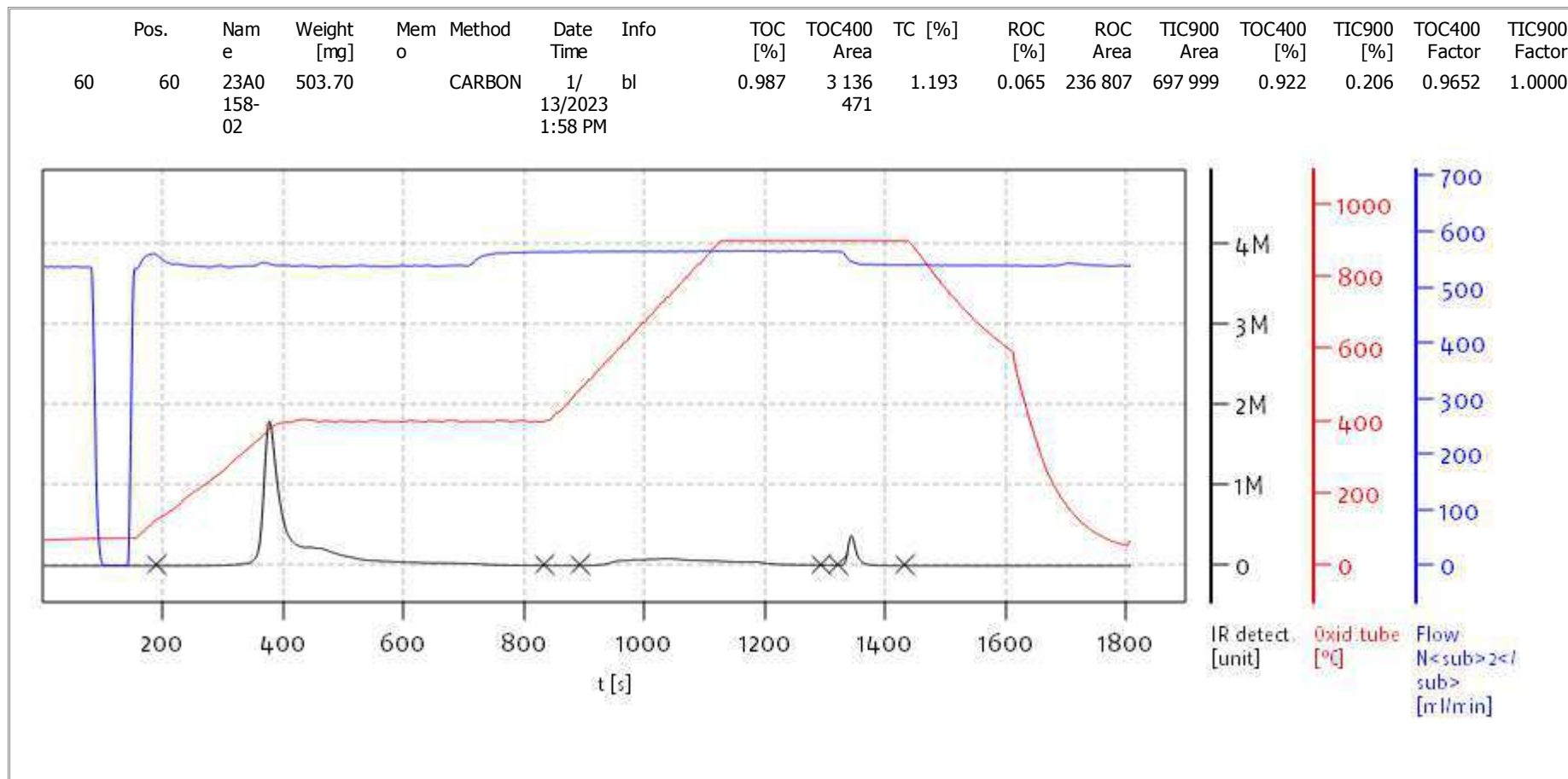
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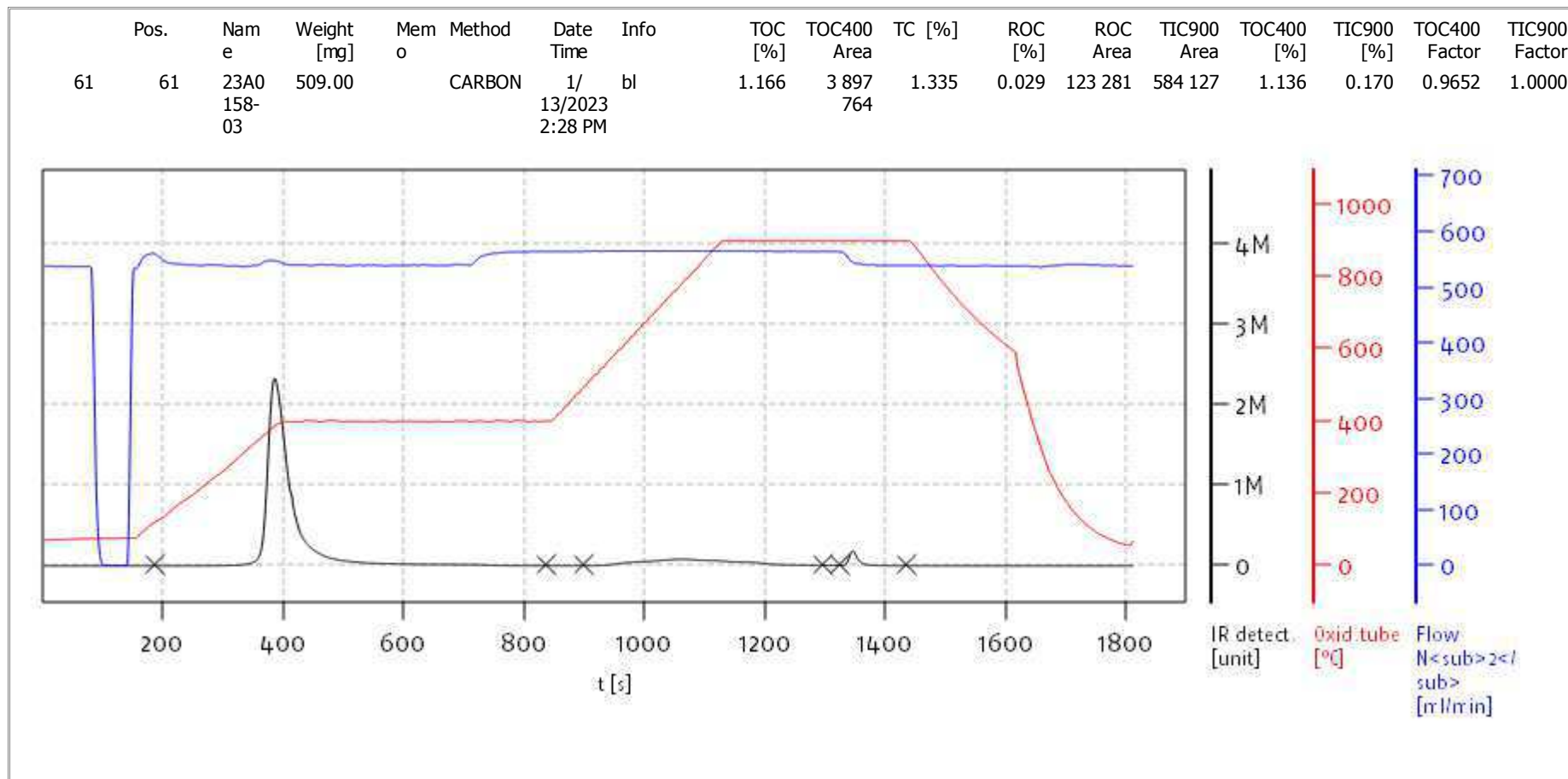
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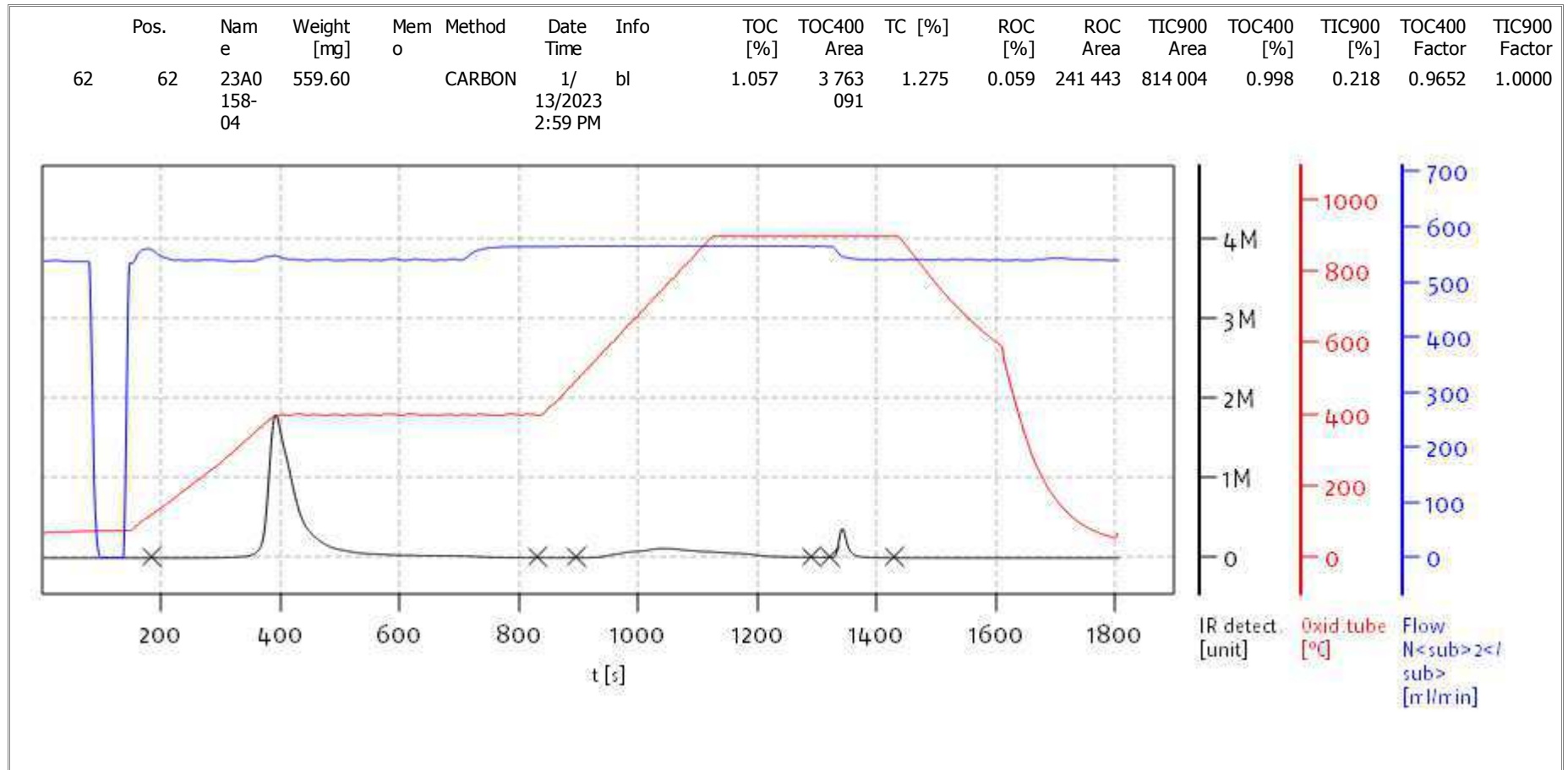
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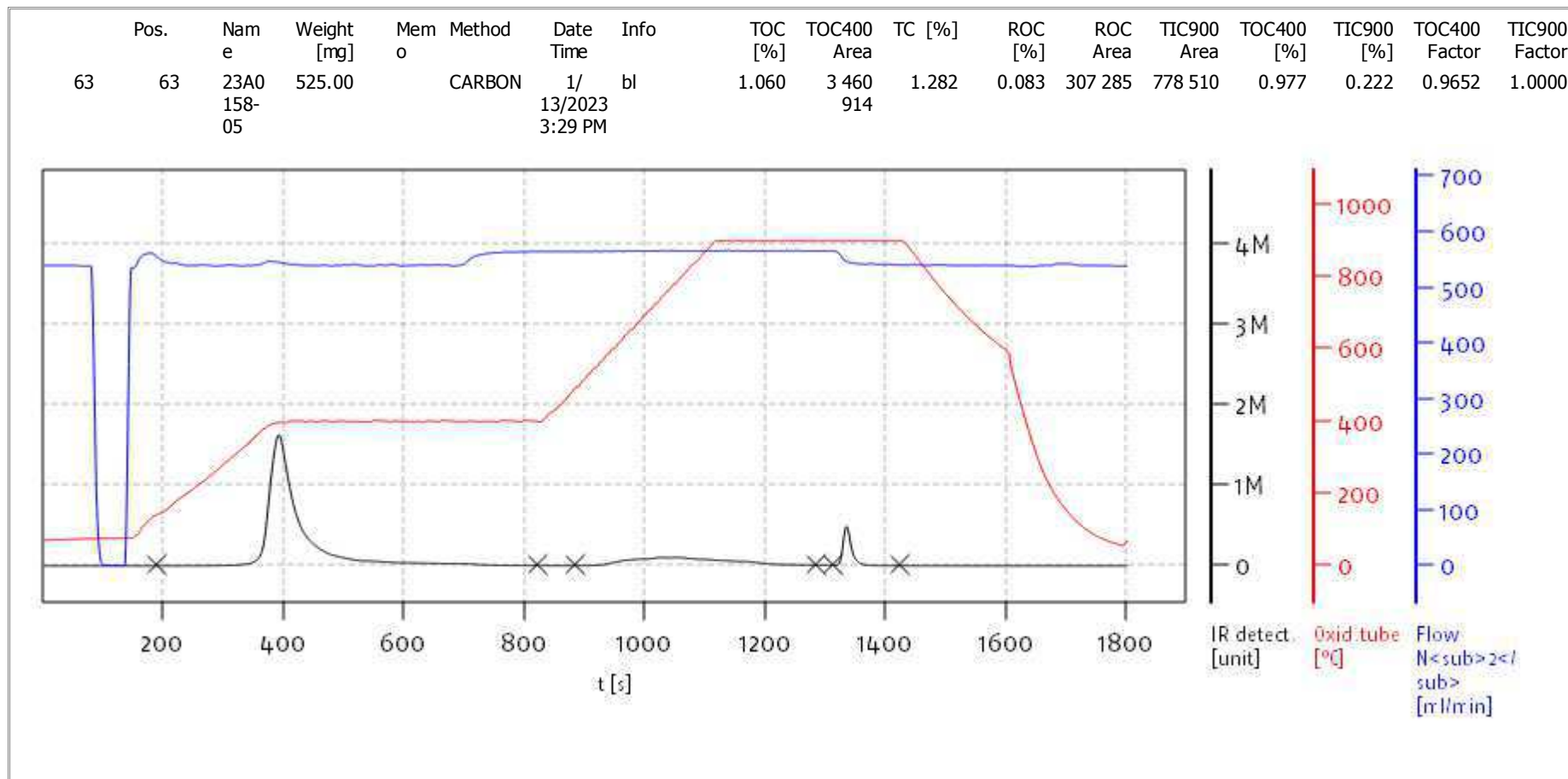
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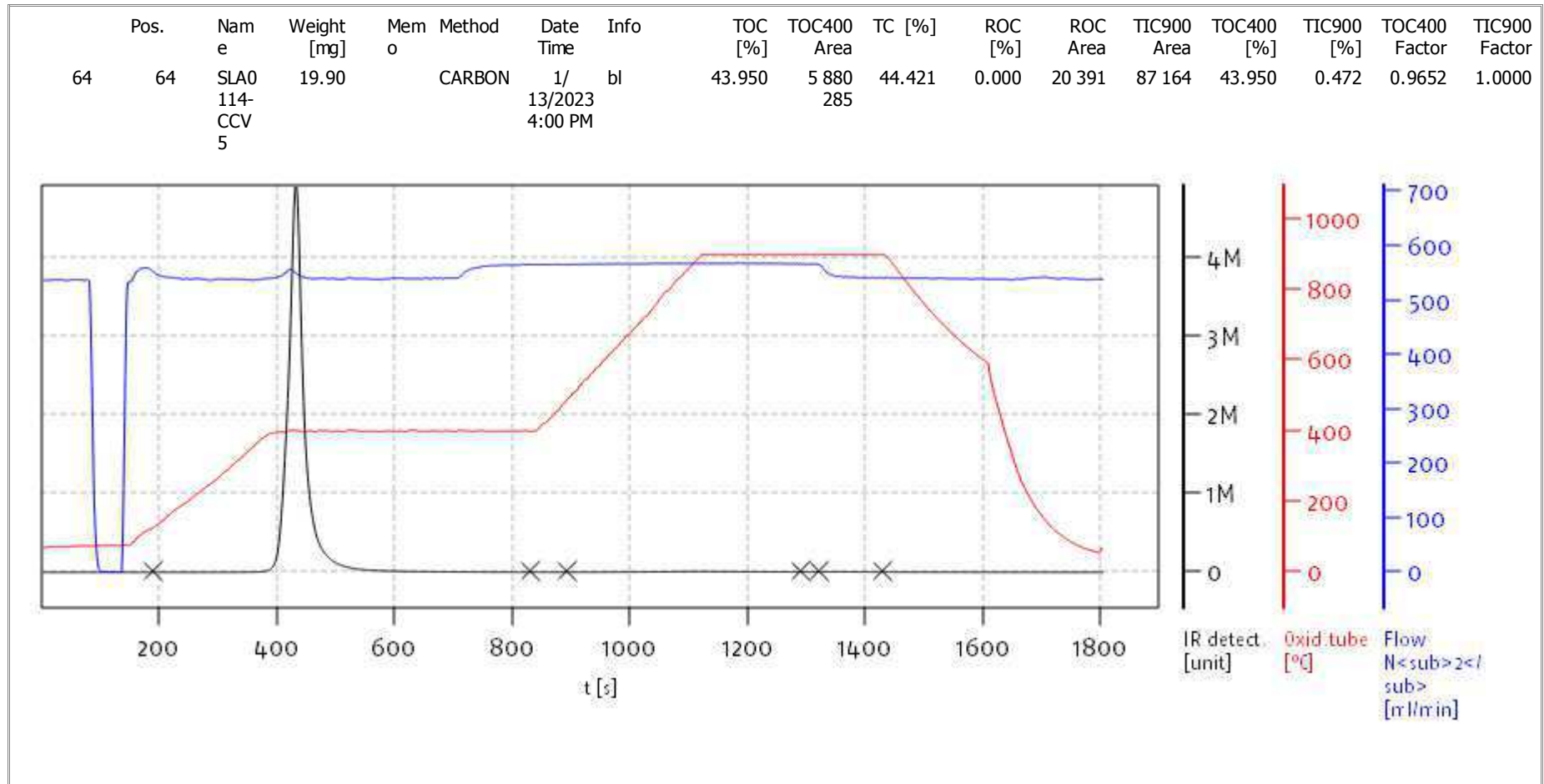
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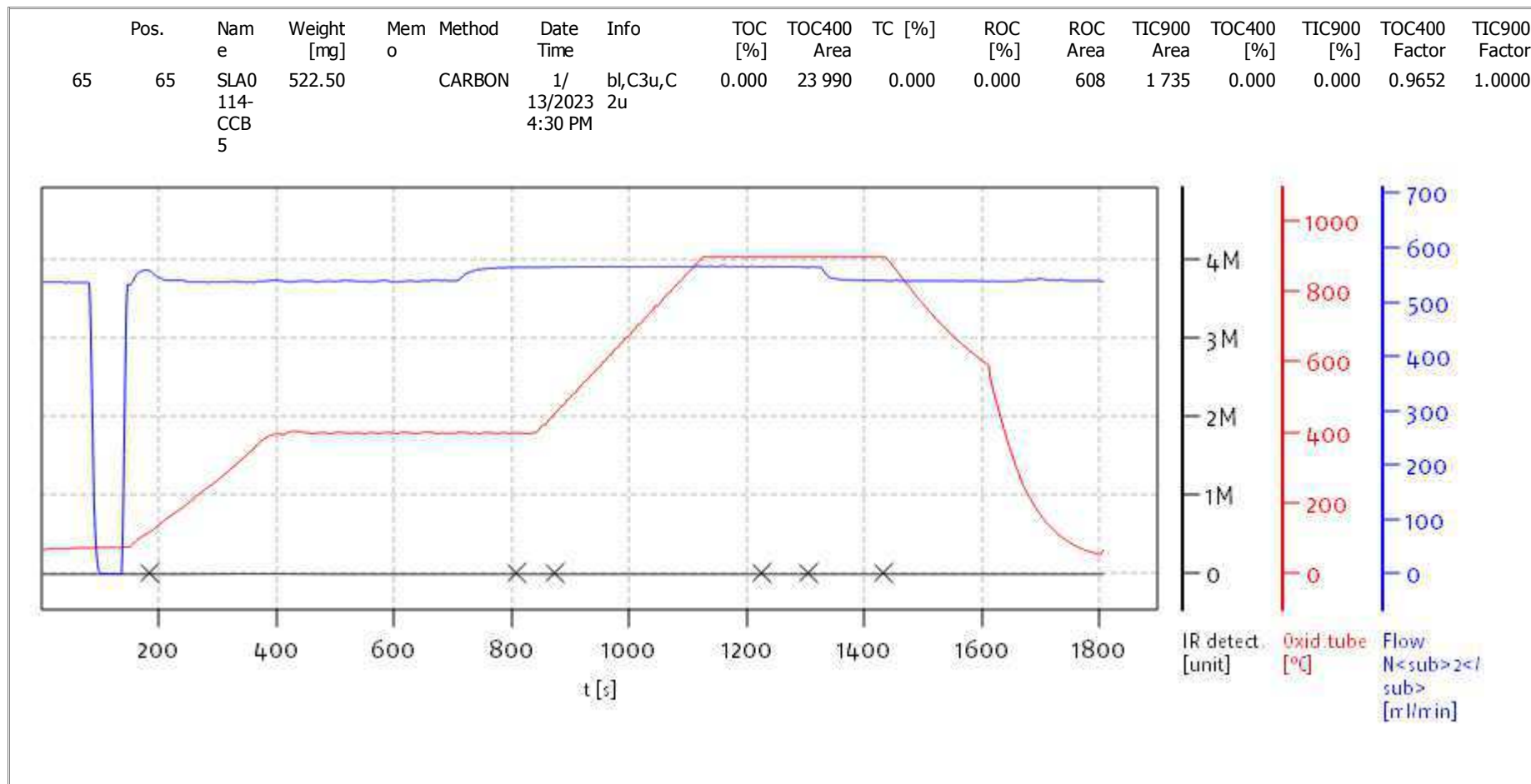
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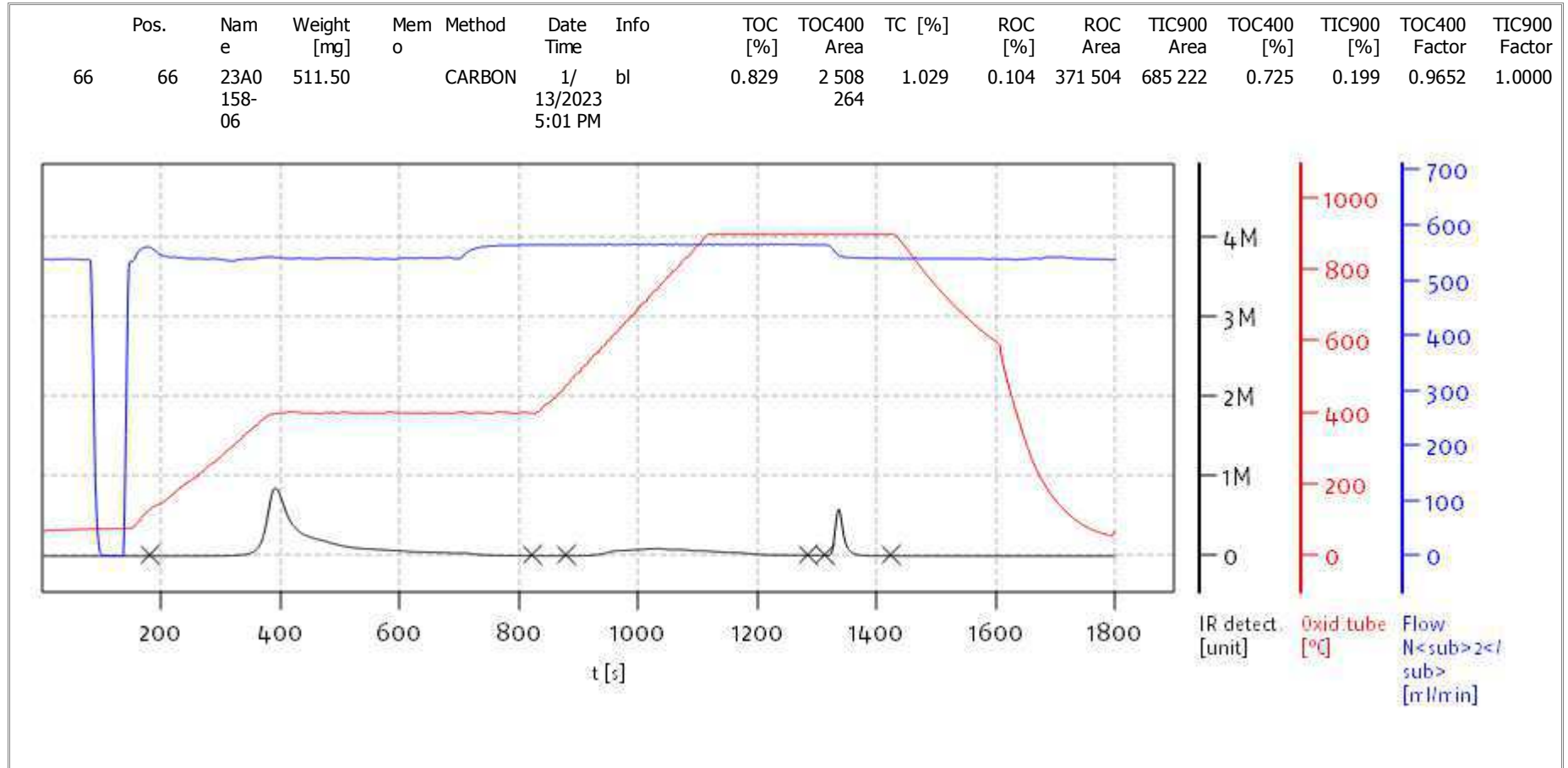
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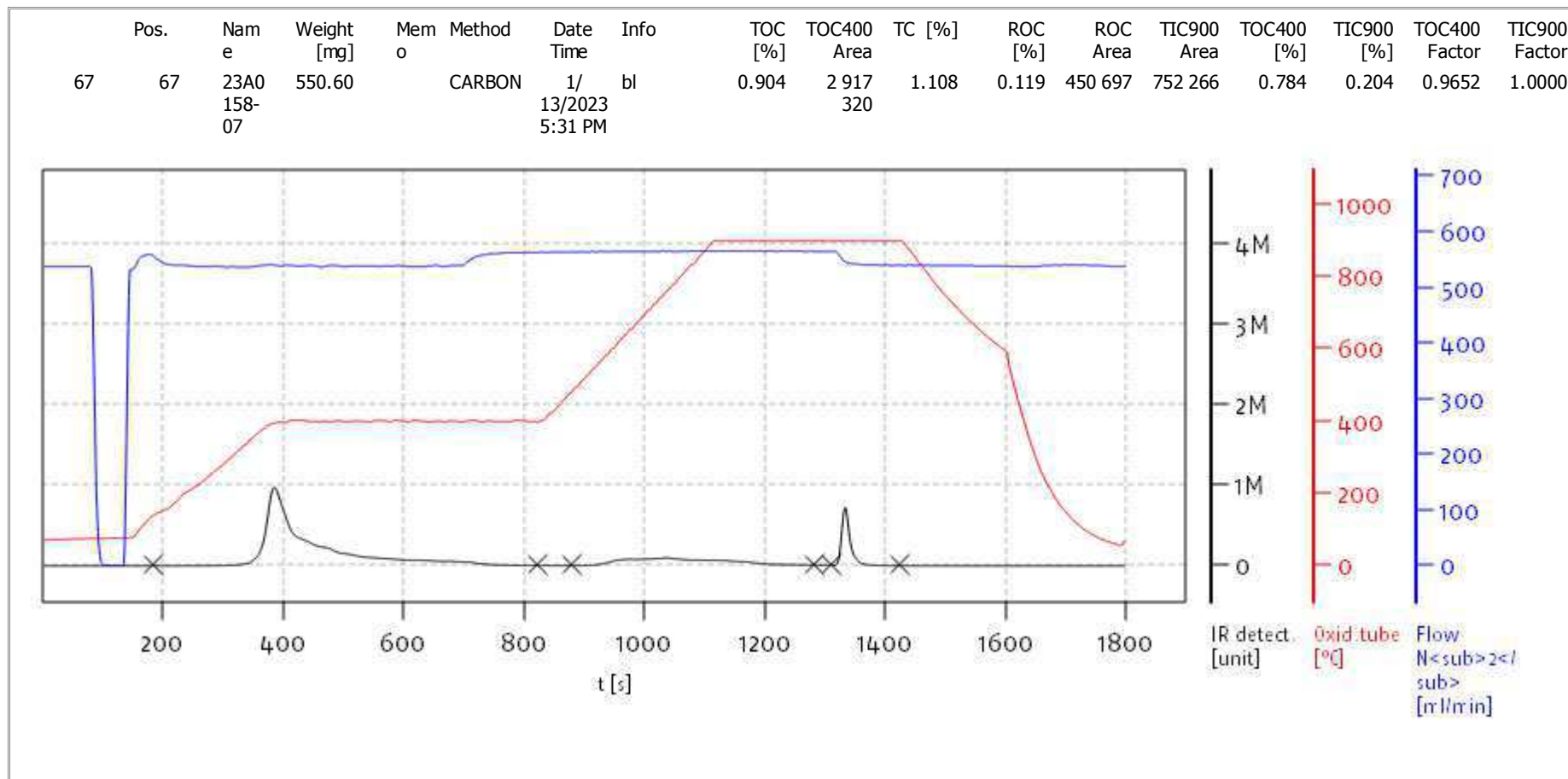
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 Serial No: 0300.181017
 Mode CCC

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 Balance: BAL3
 Analyst: DOE



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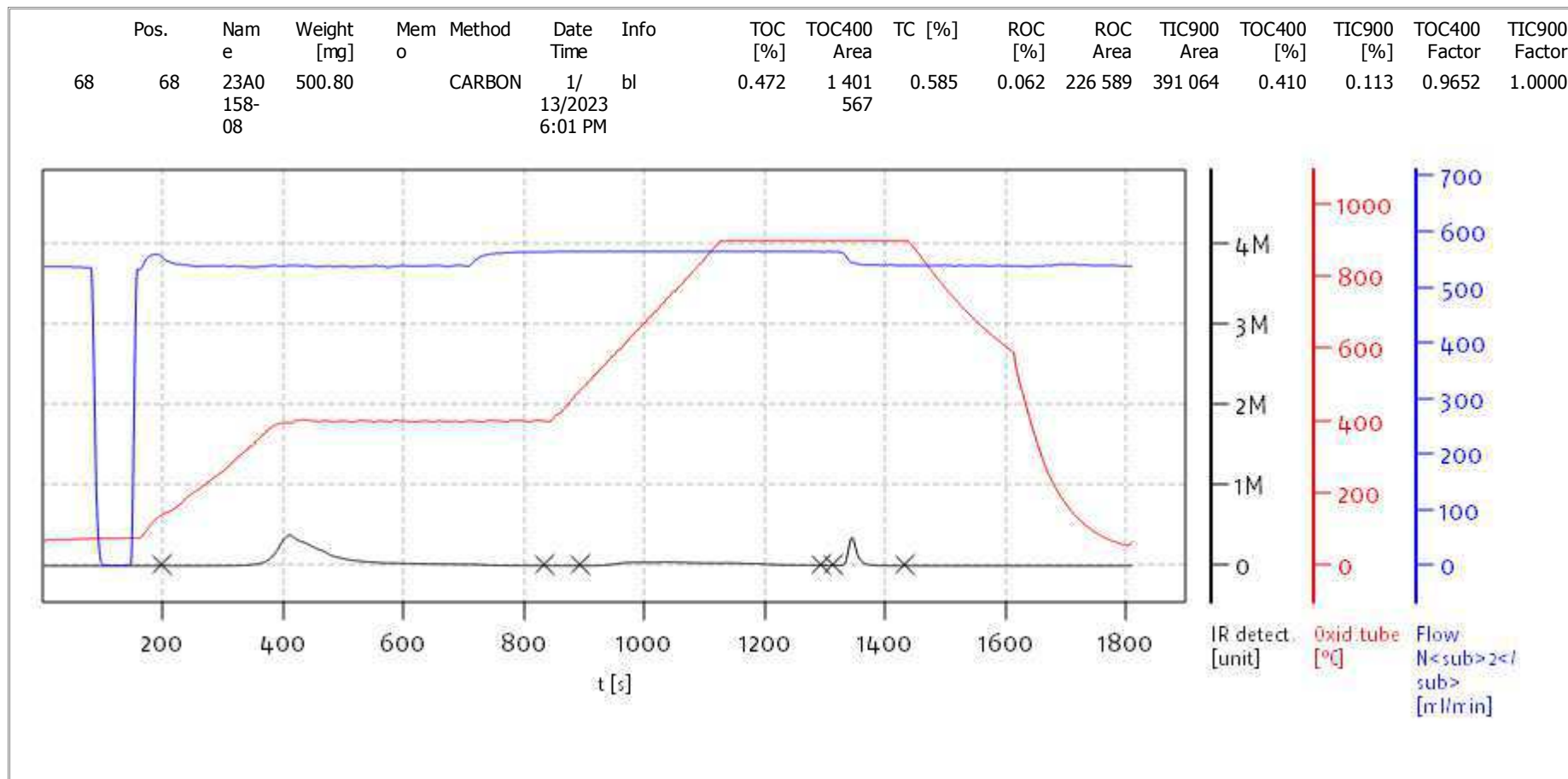
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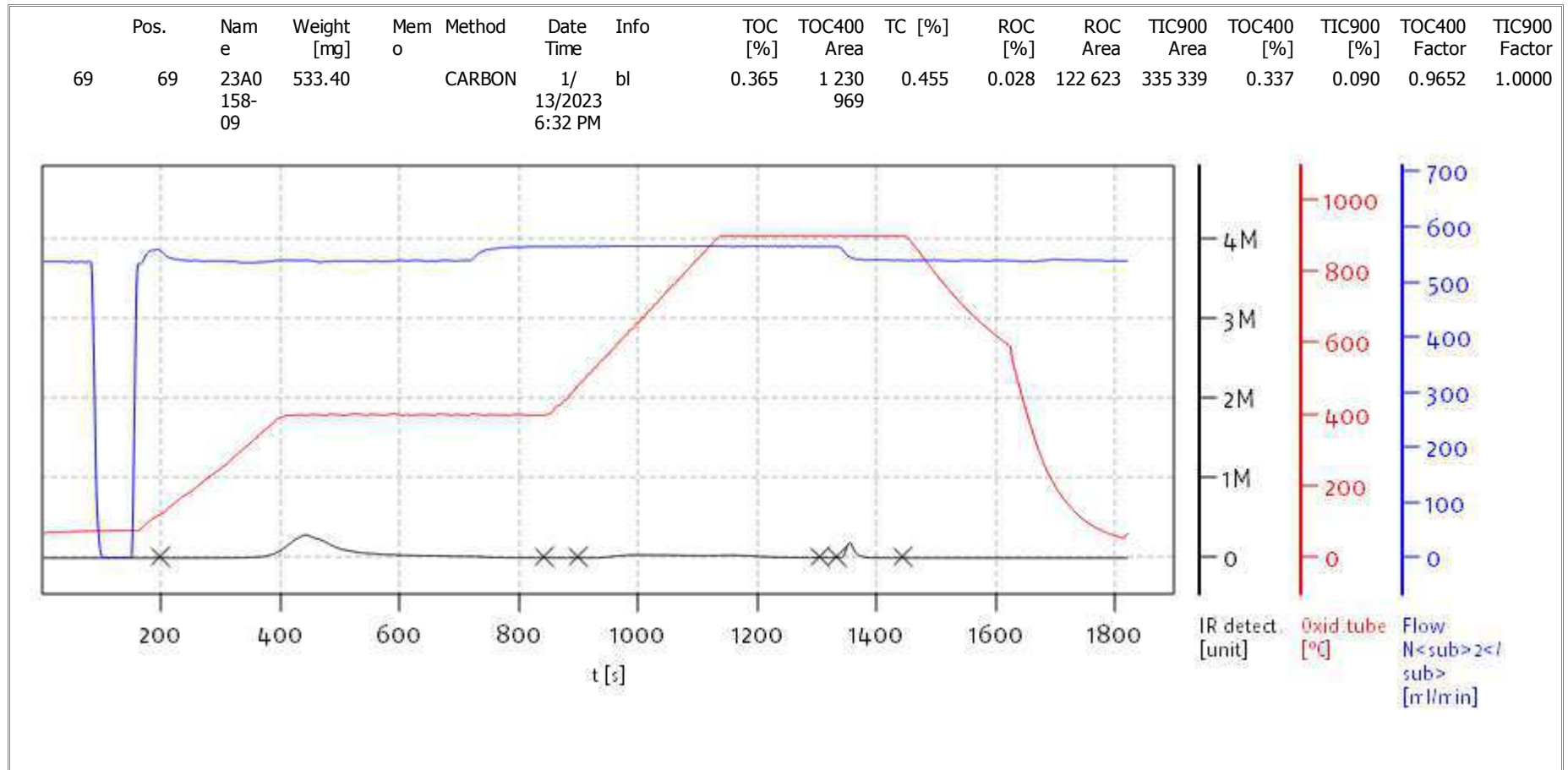
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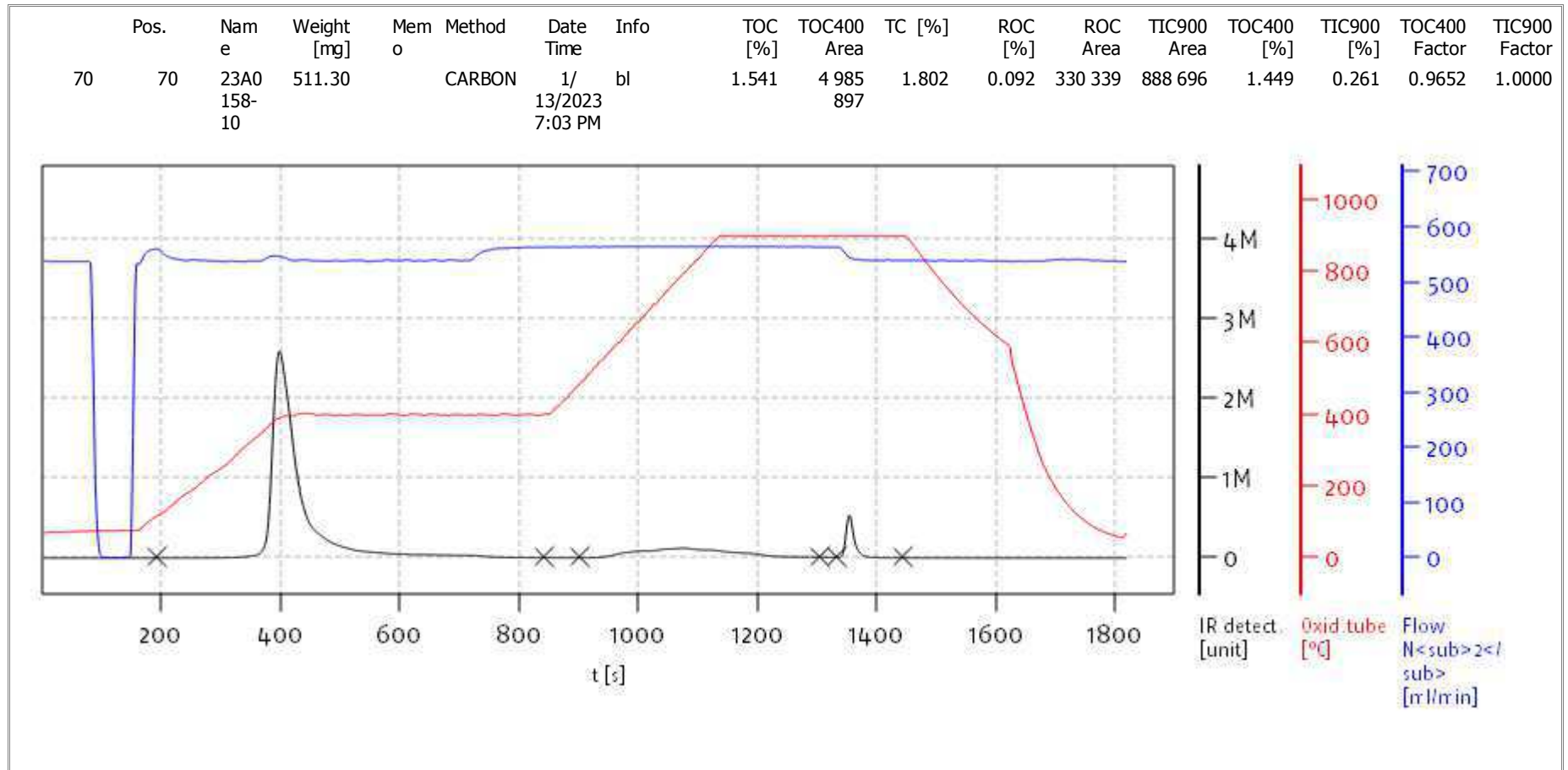
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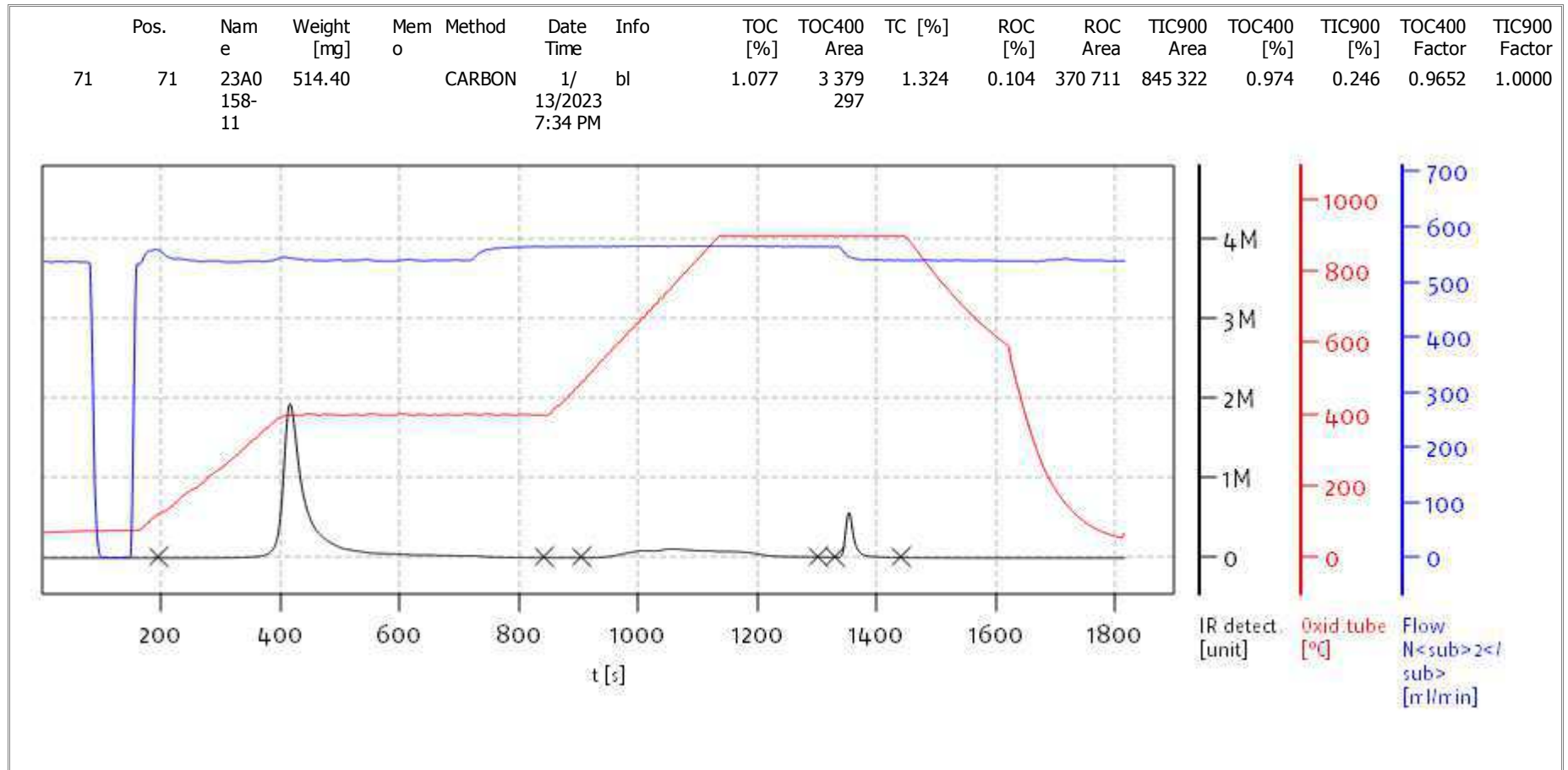
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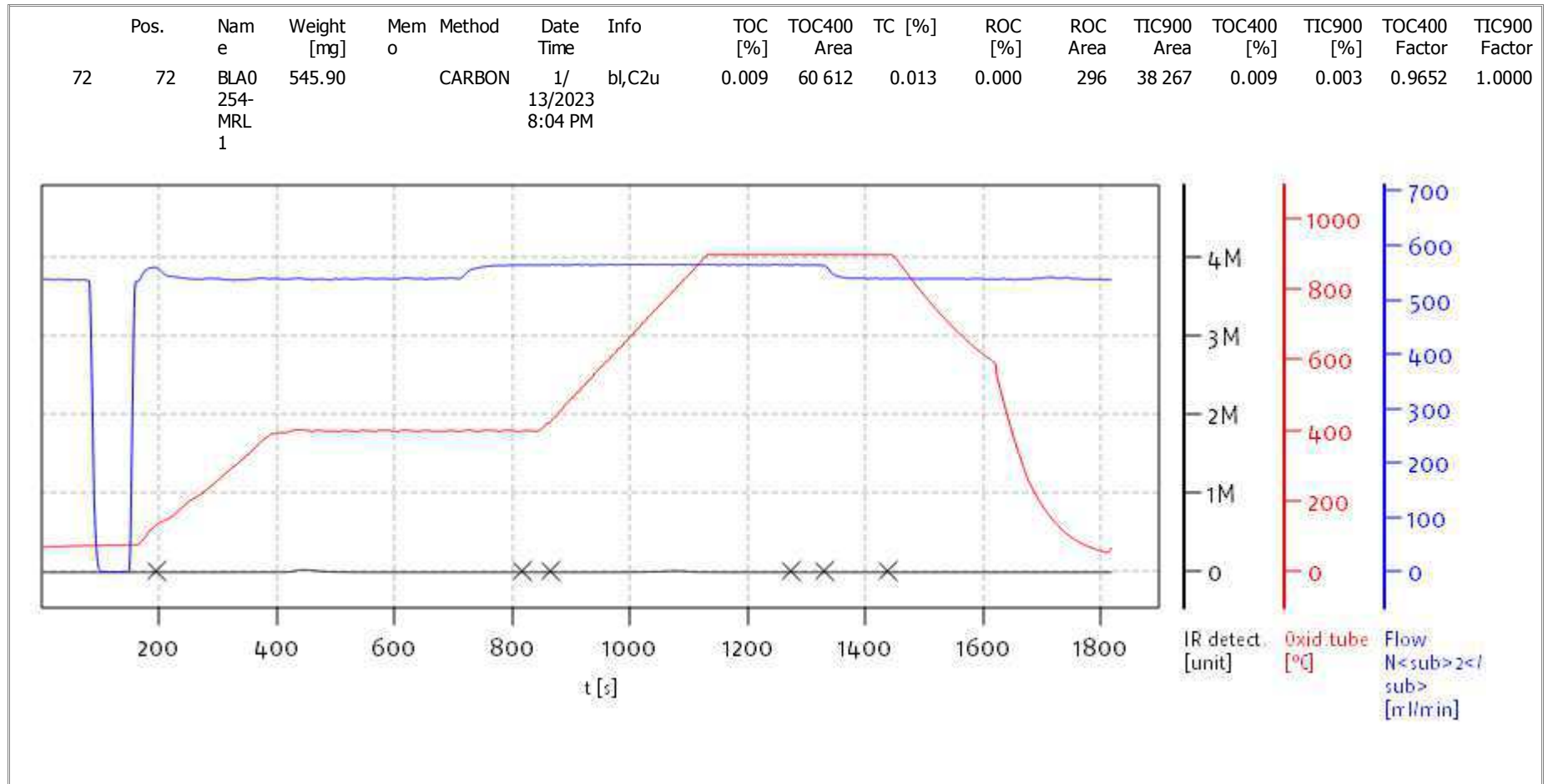
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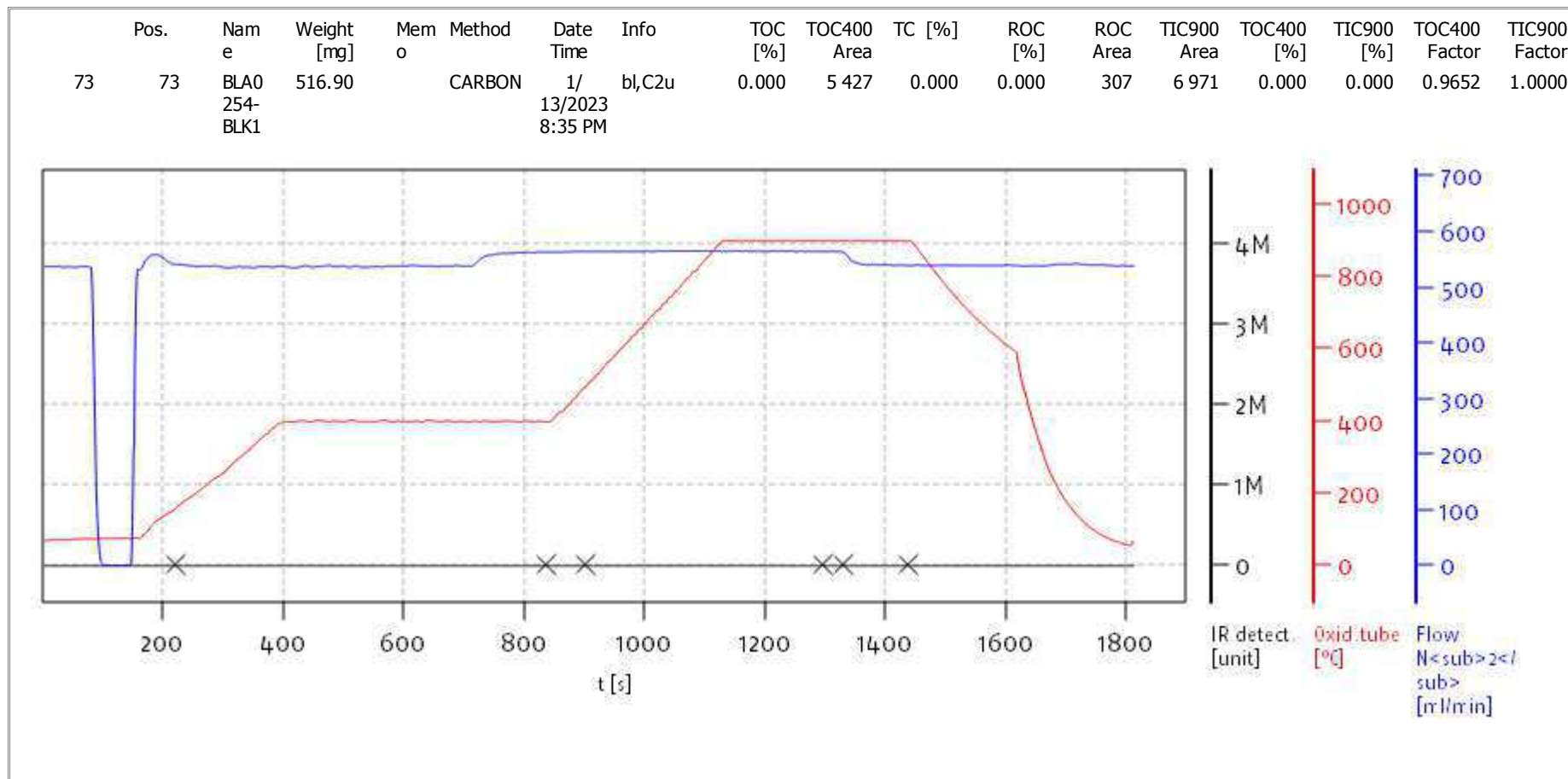
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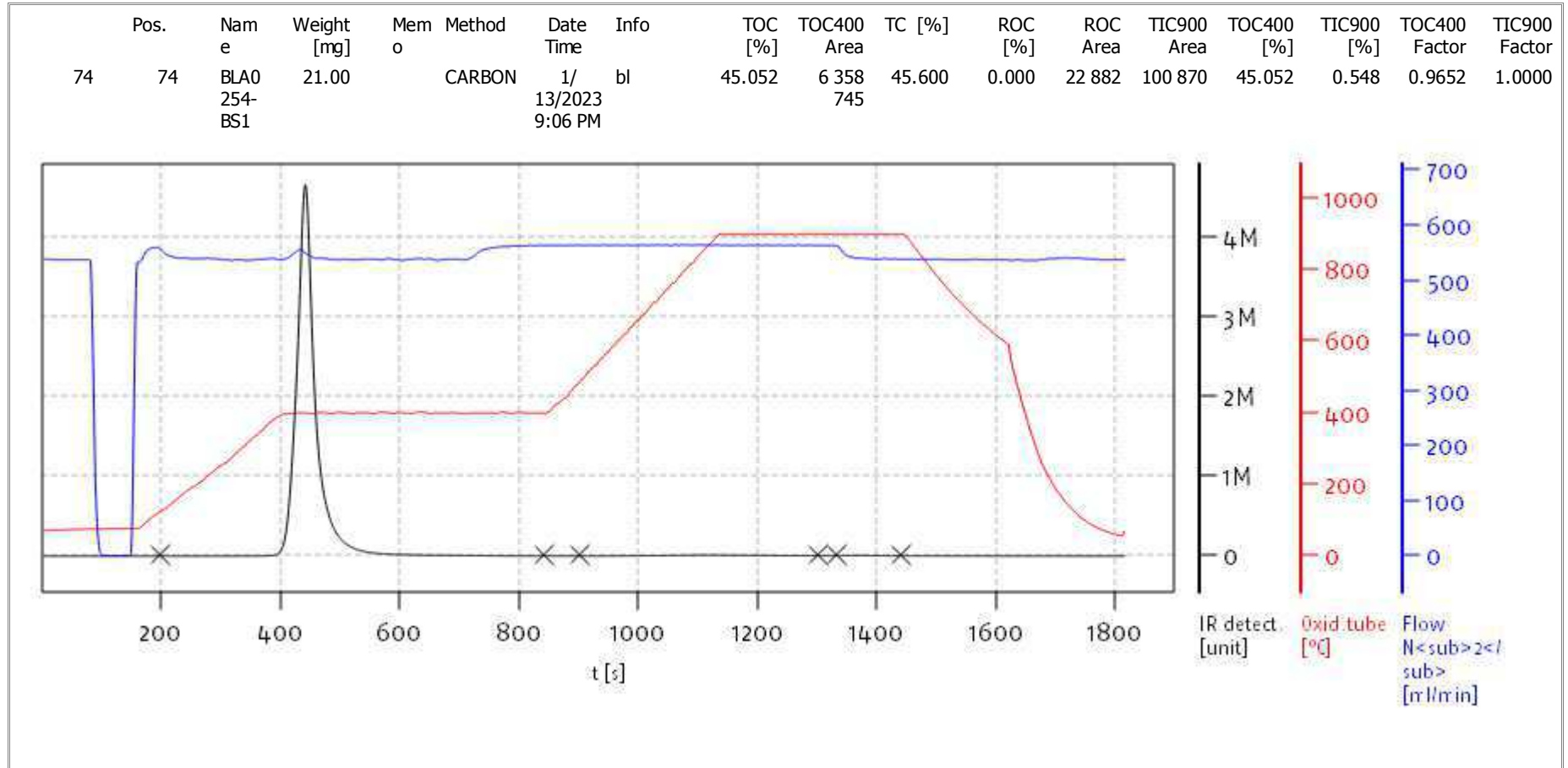
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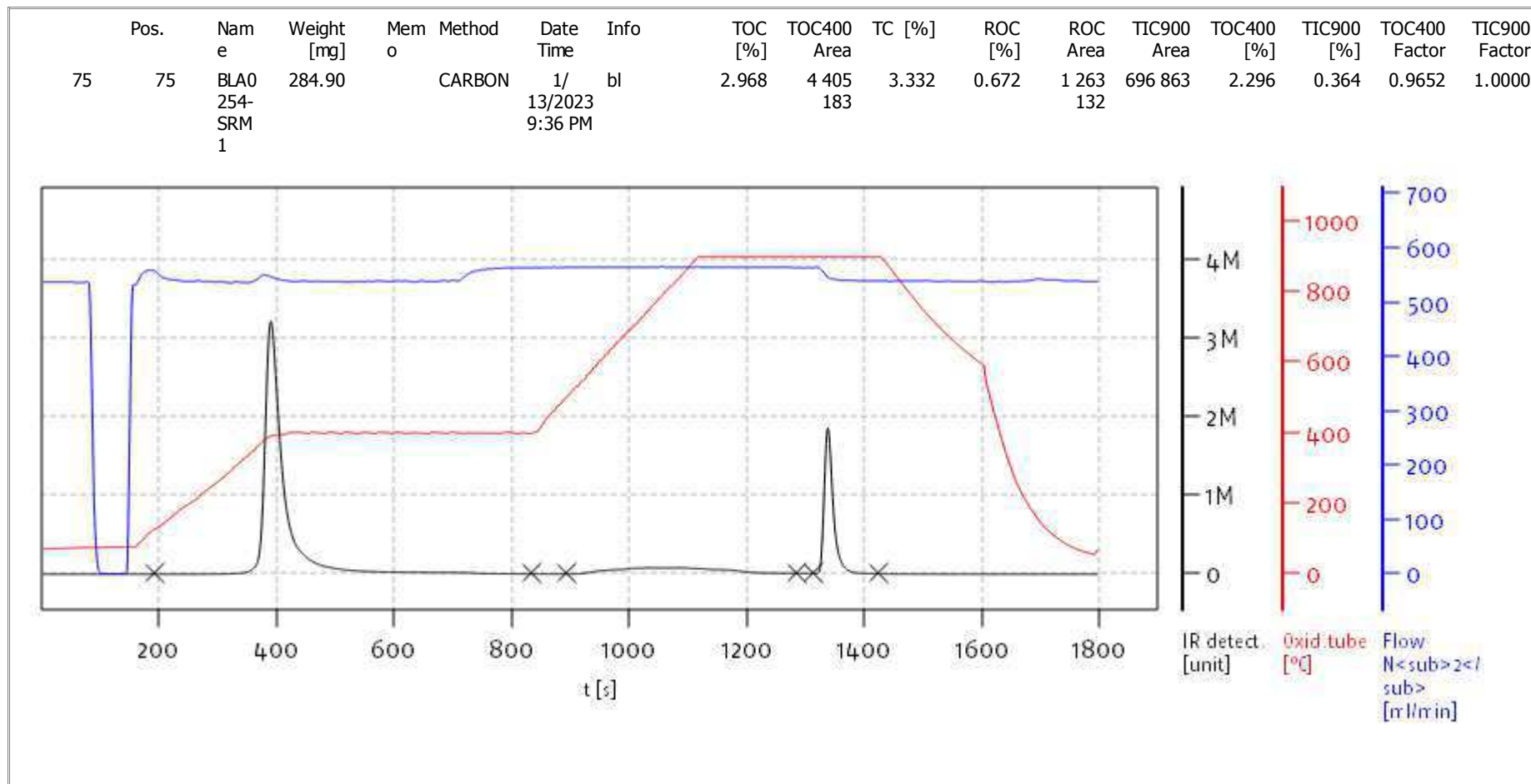
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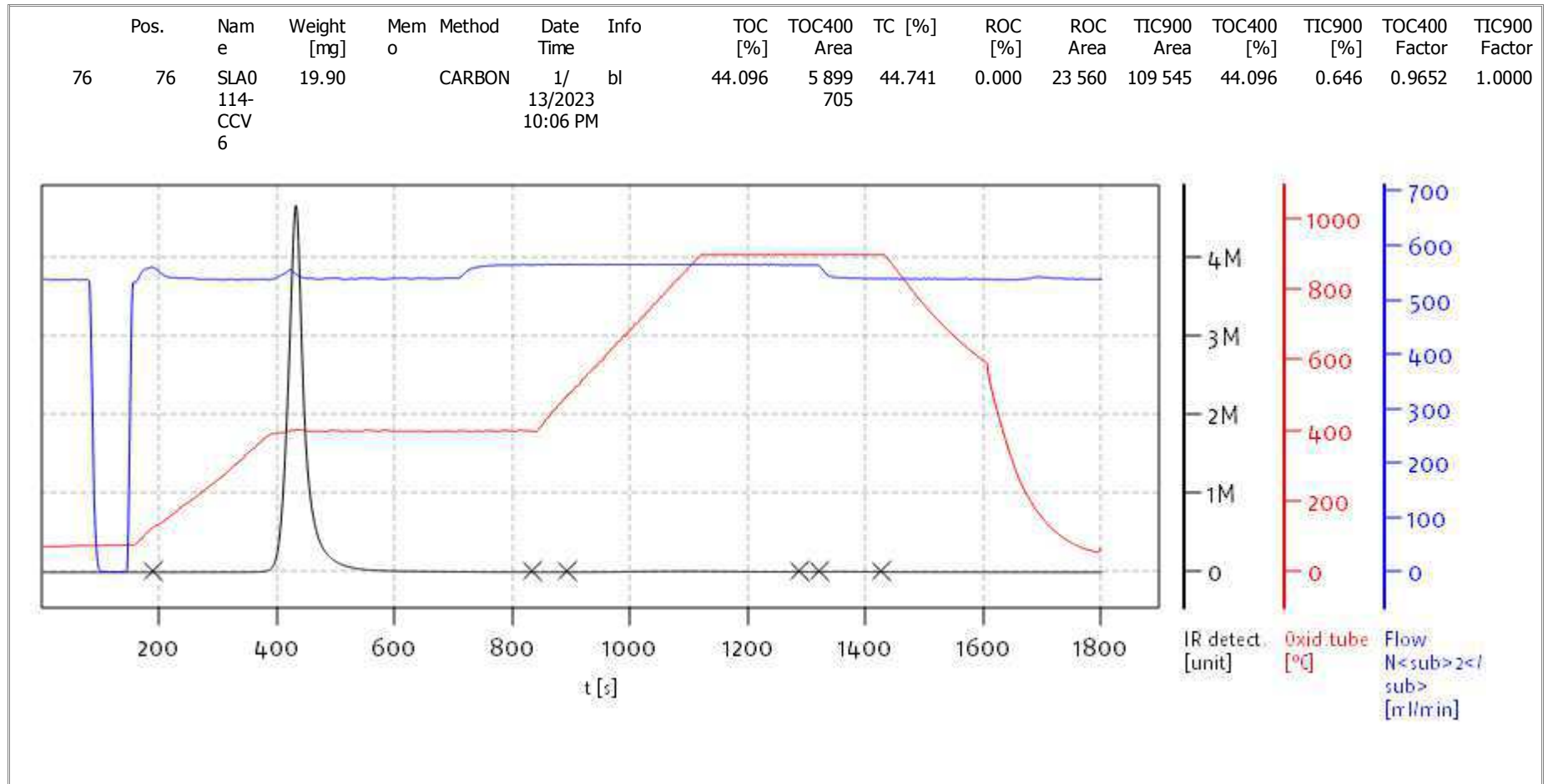
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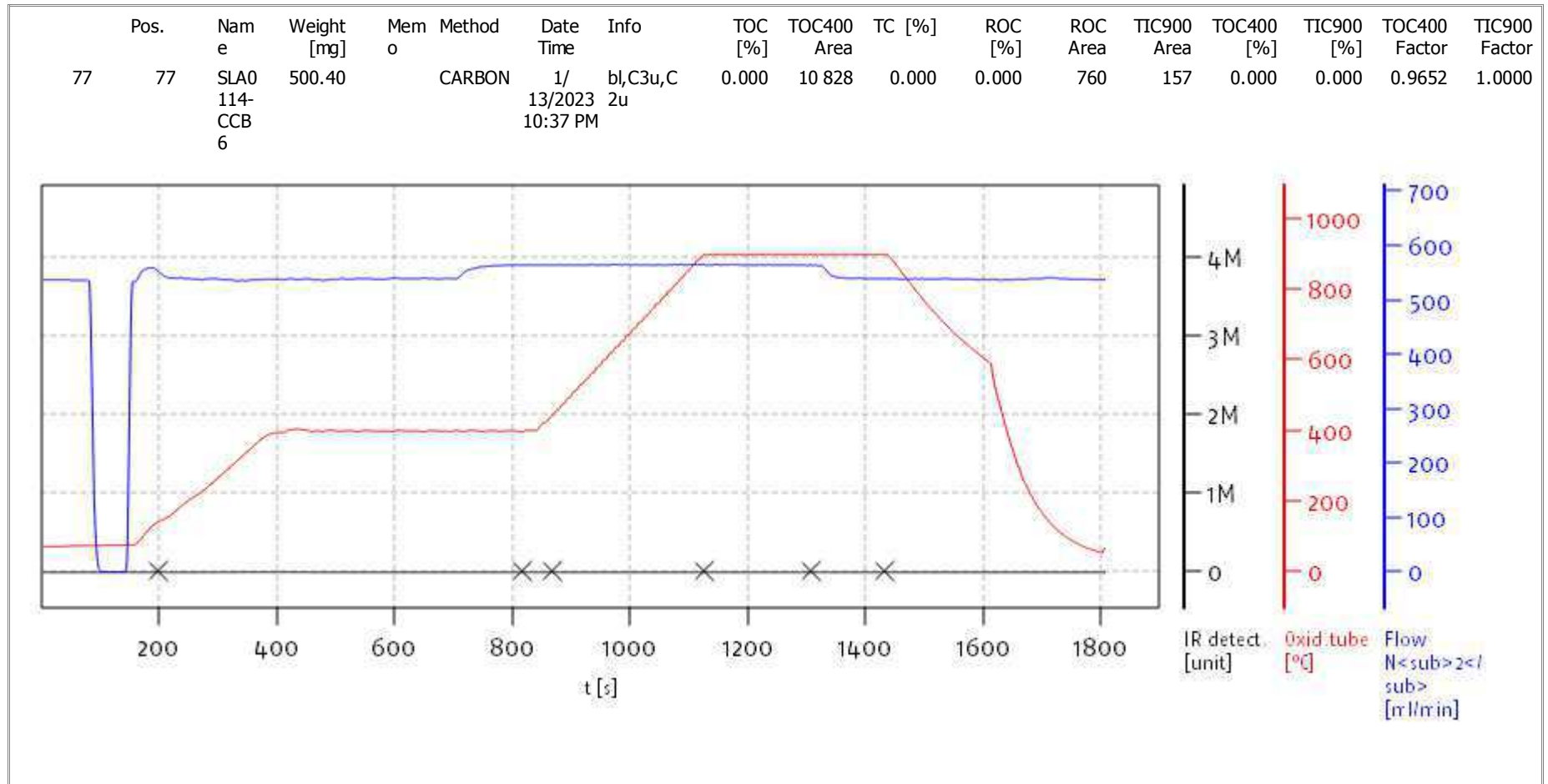
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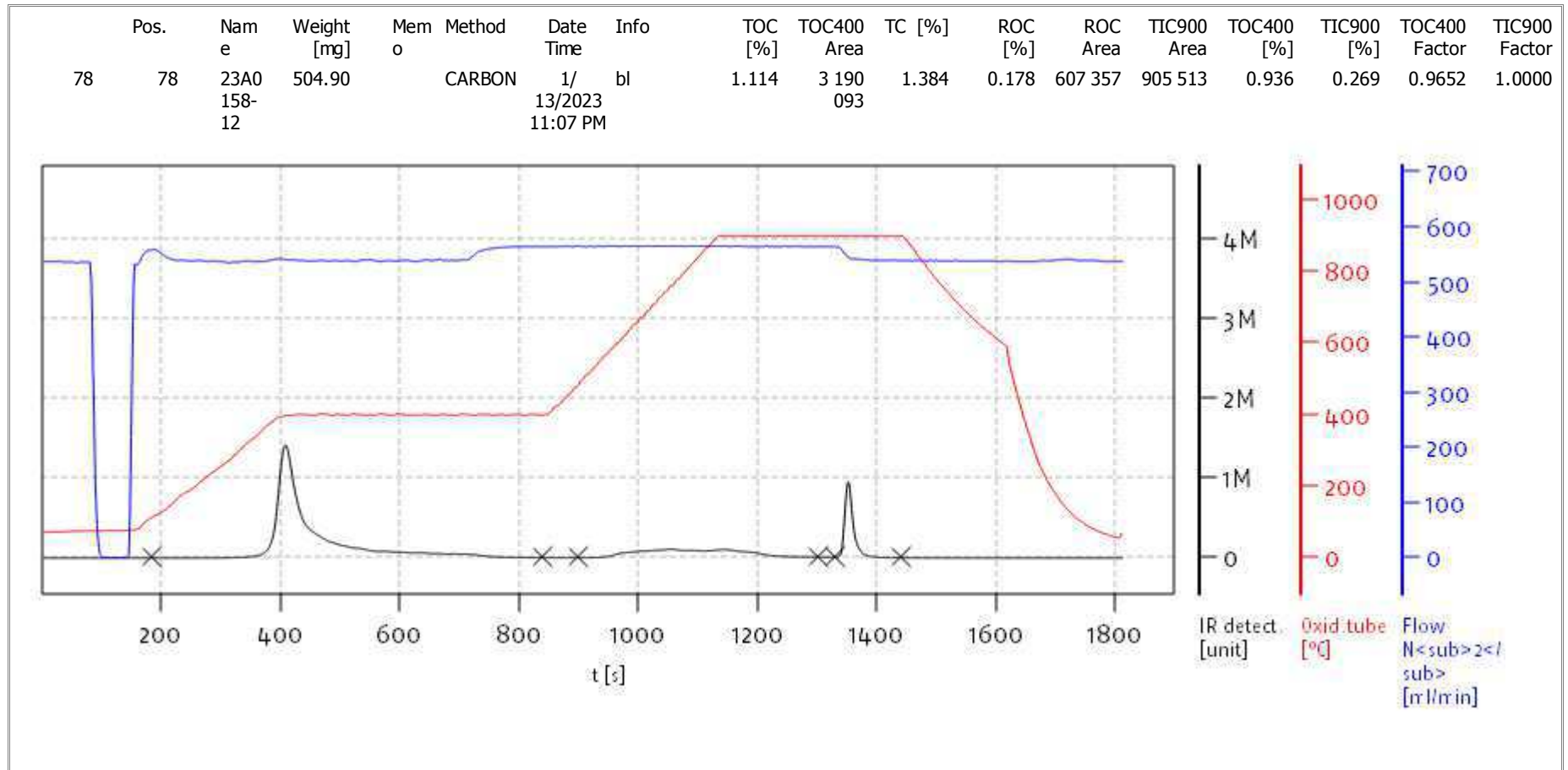
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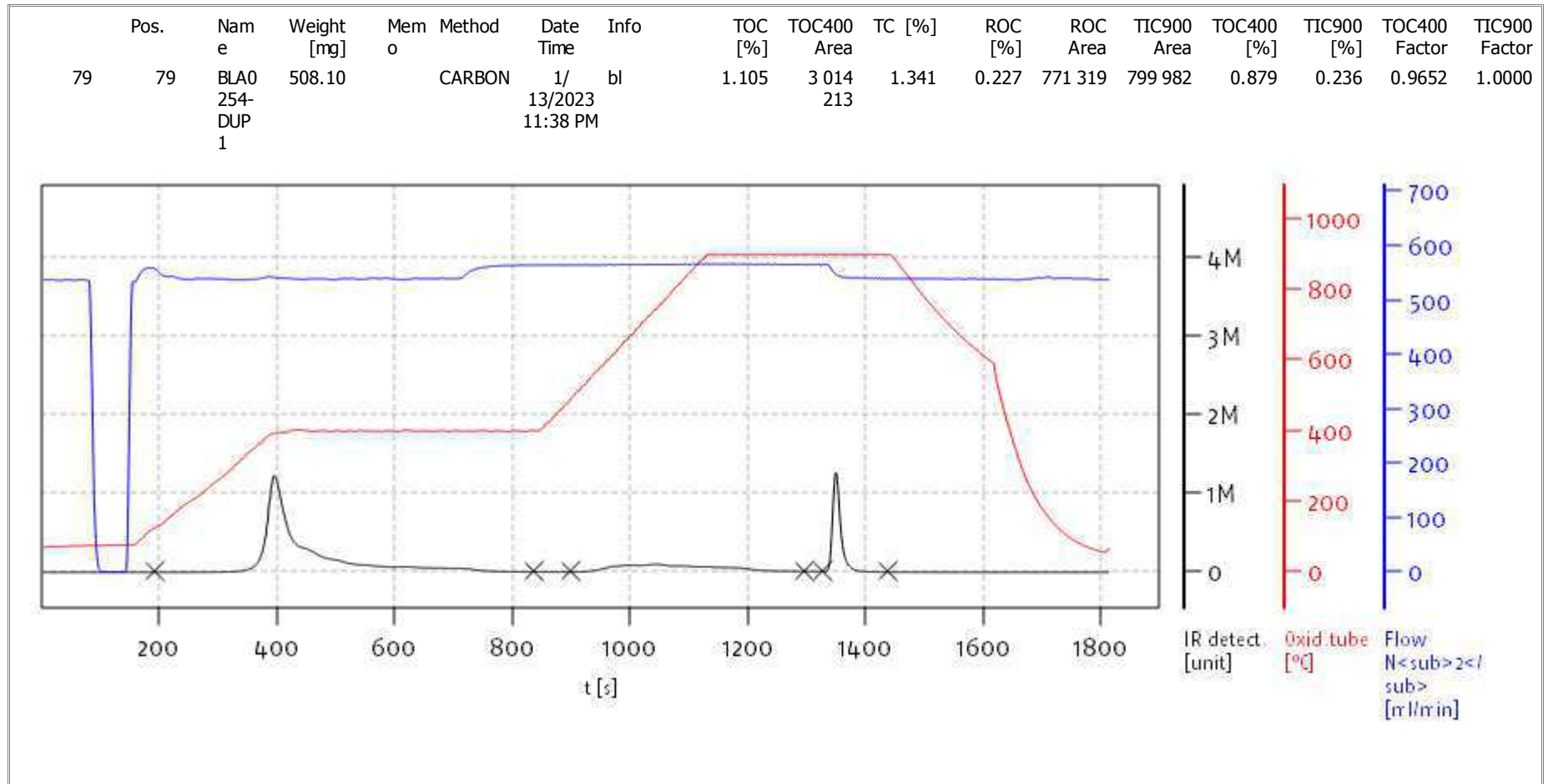
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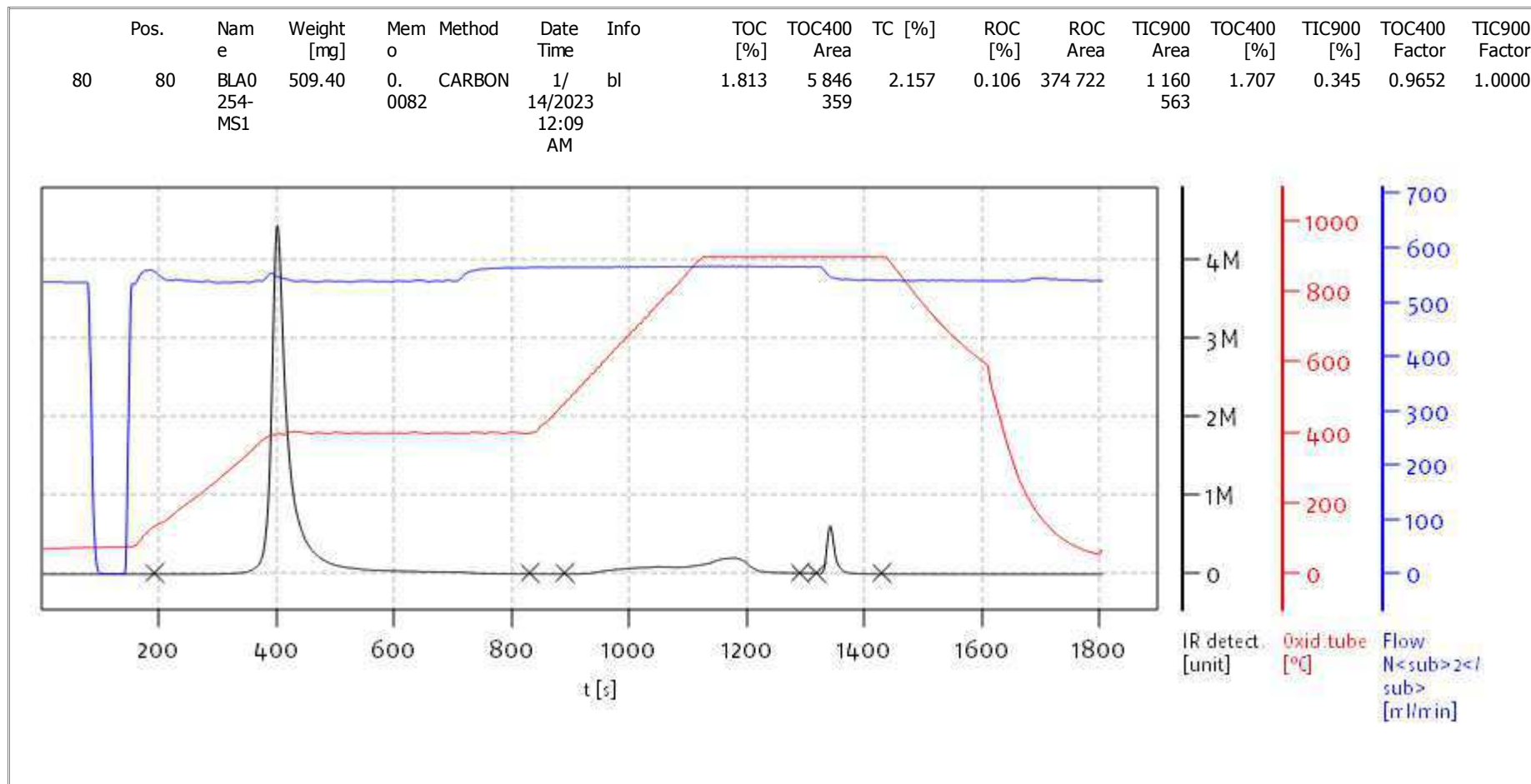
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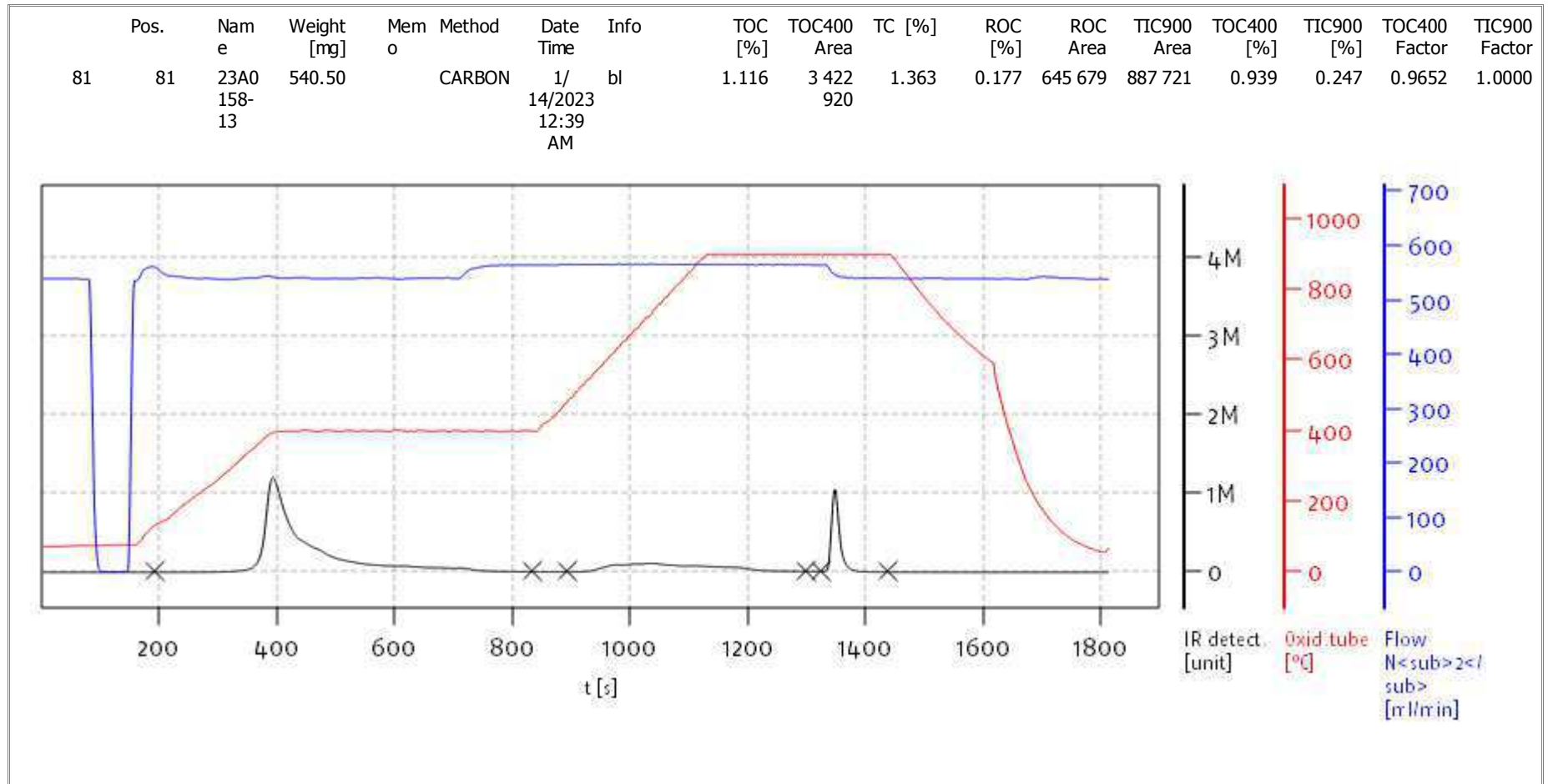
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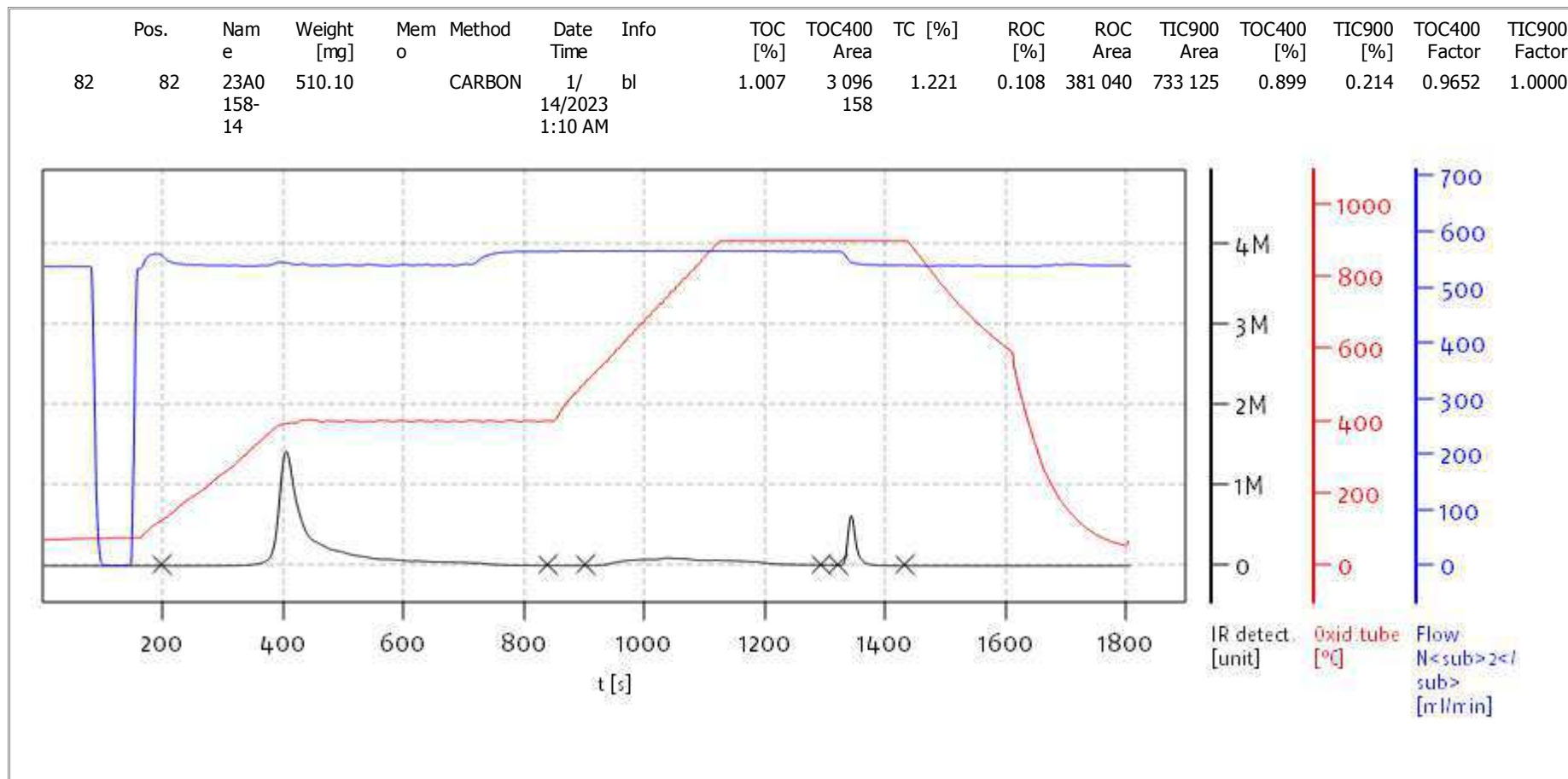
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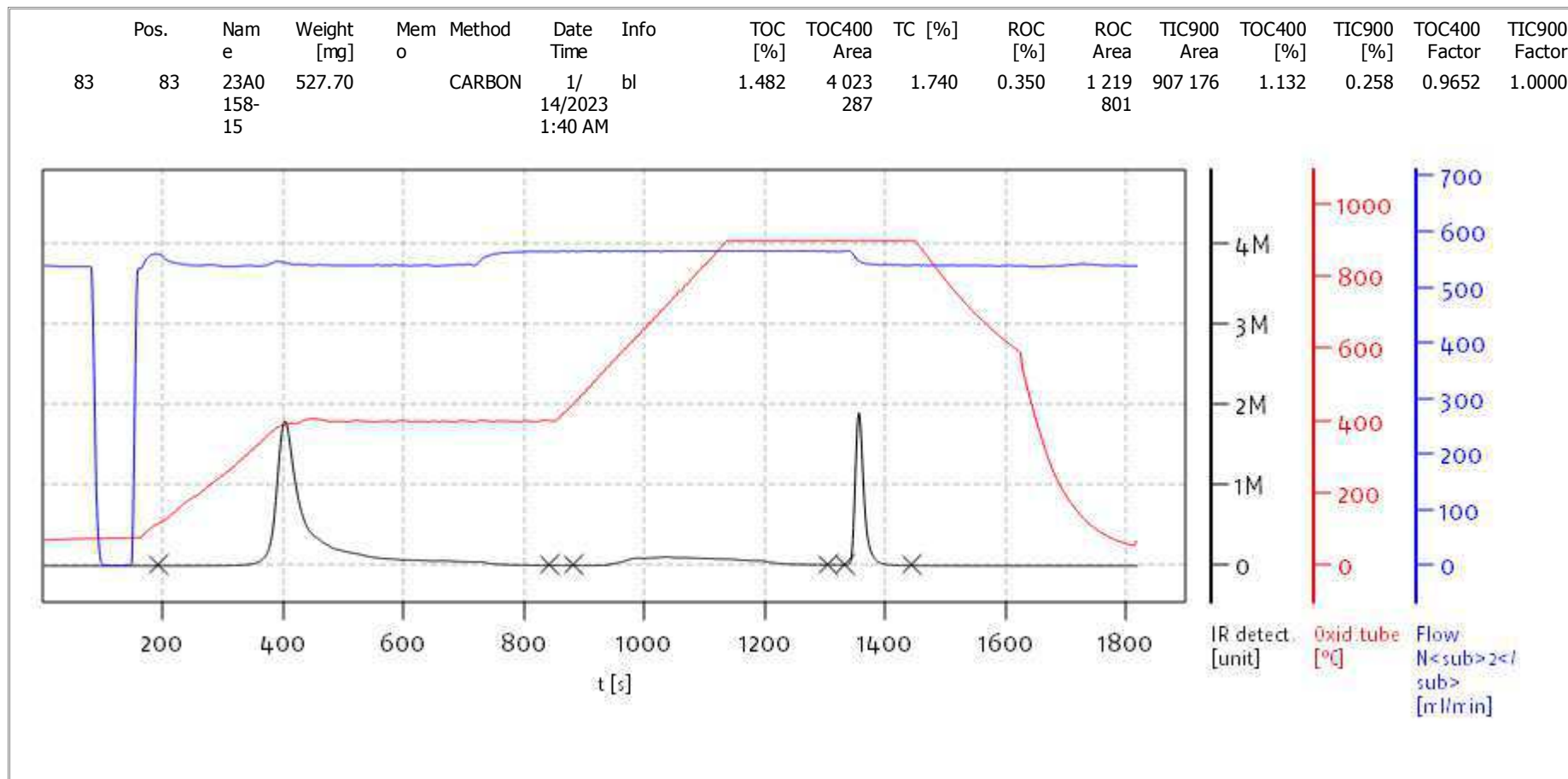
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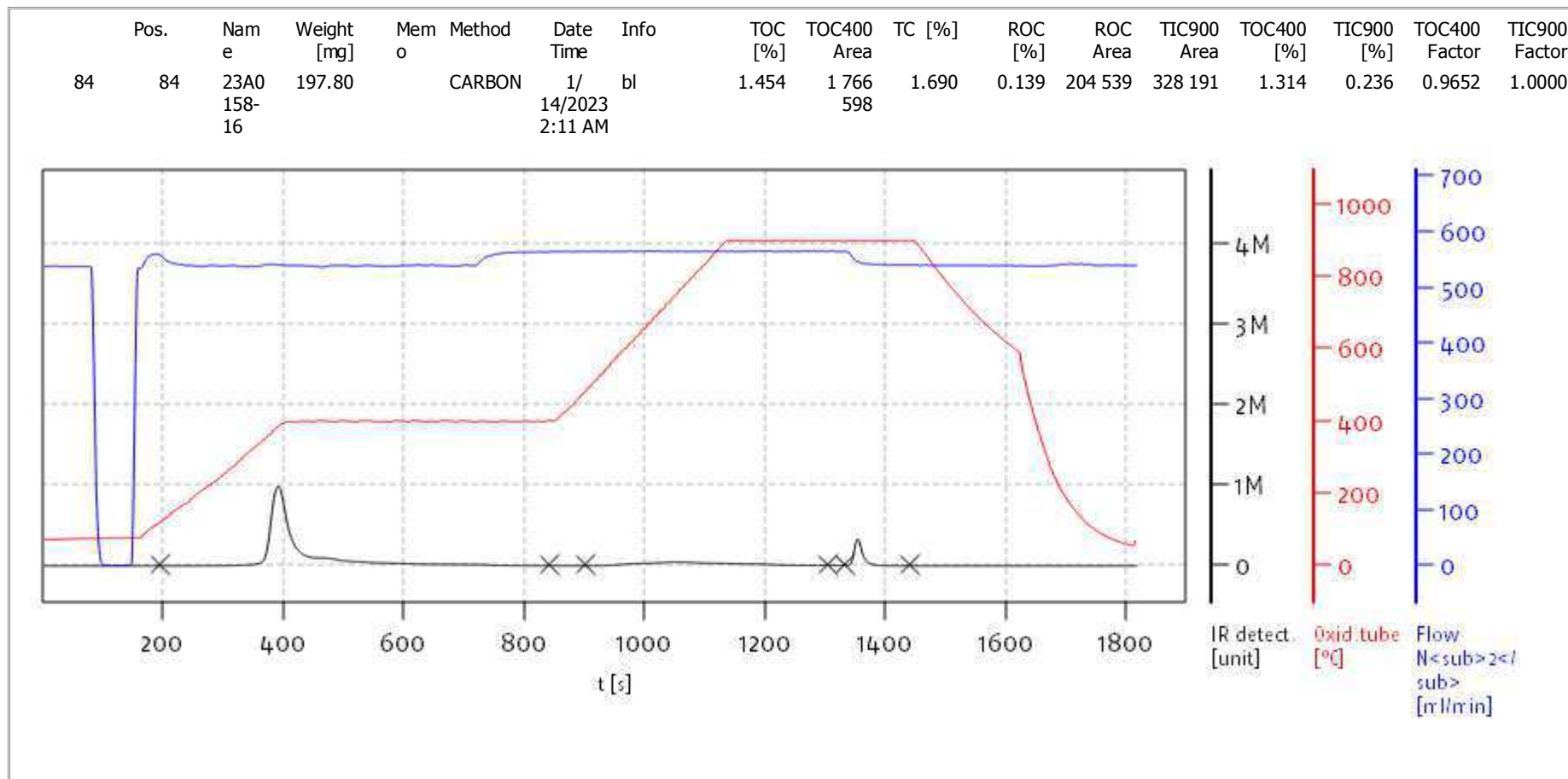
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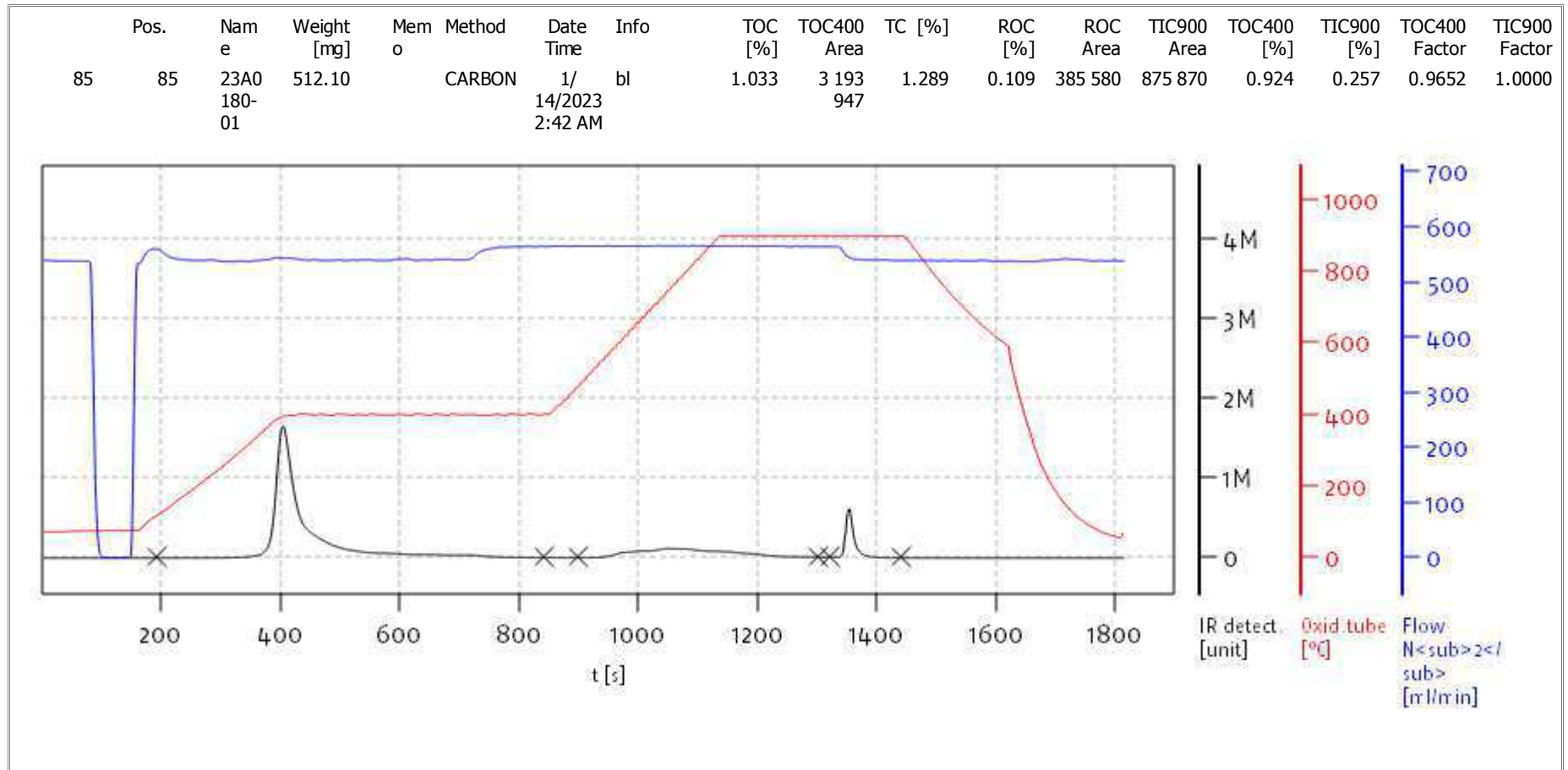
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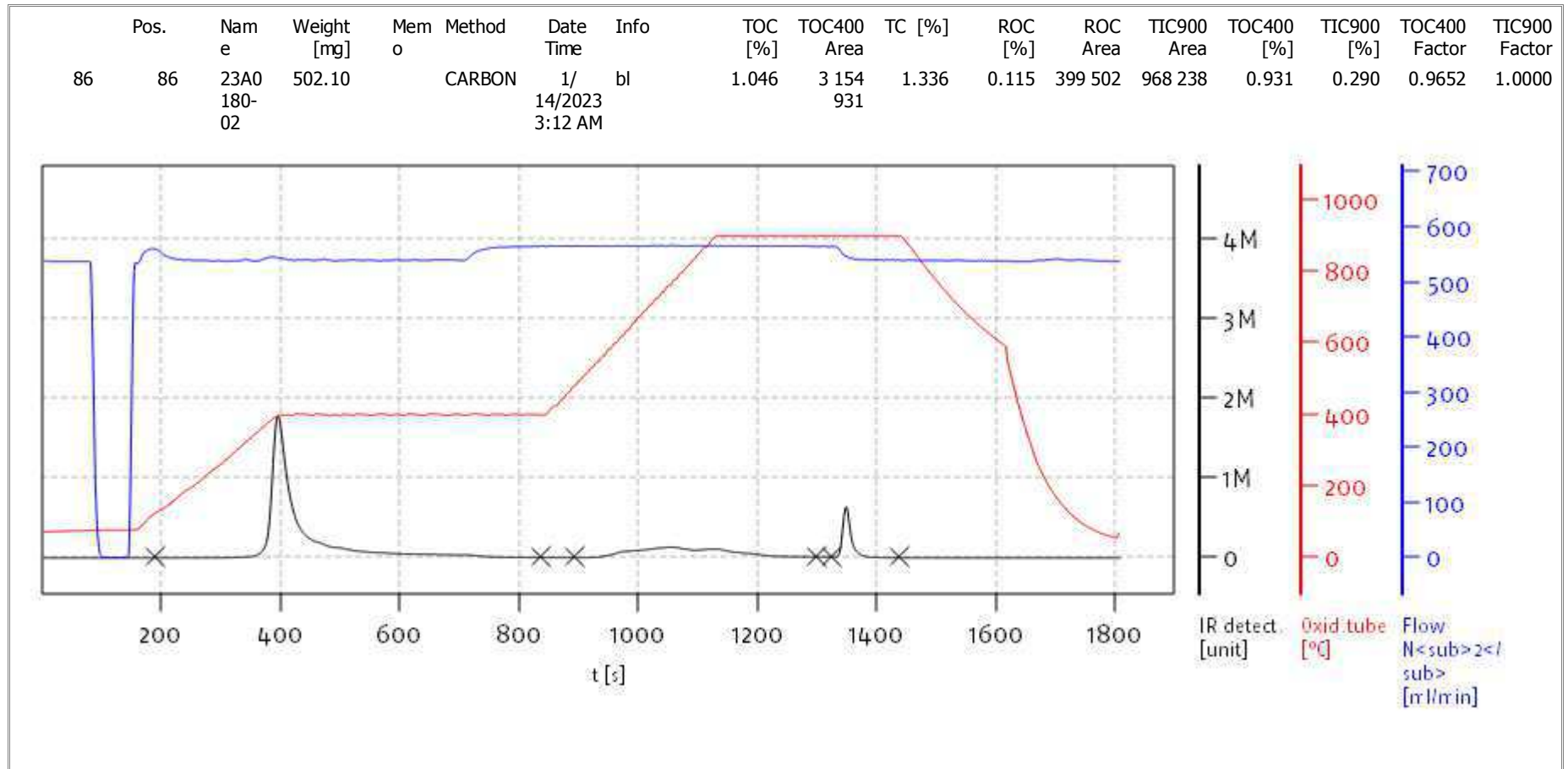
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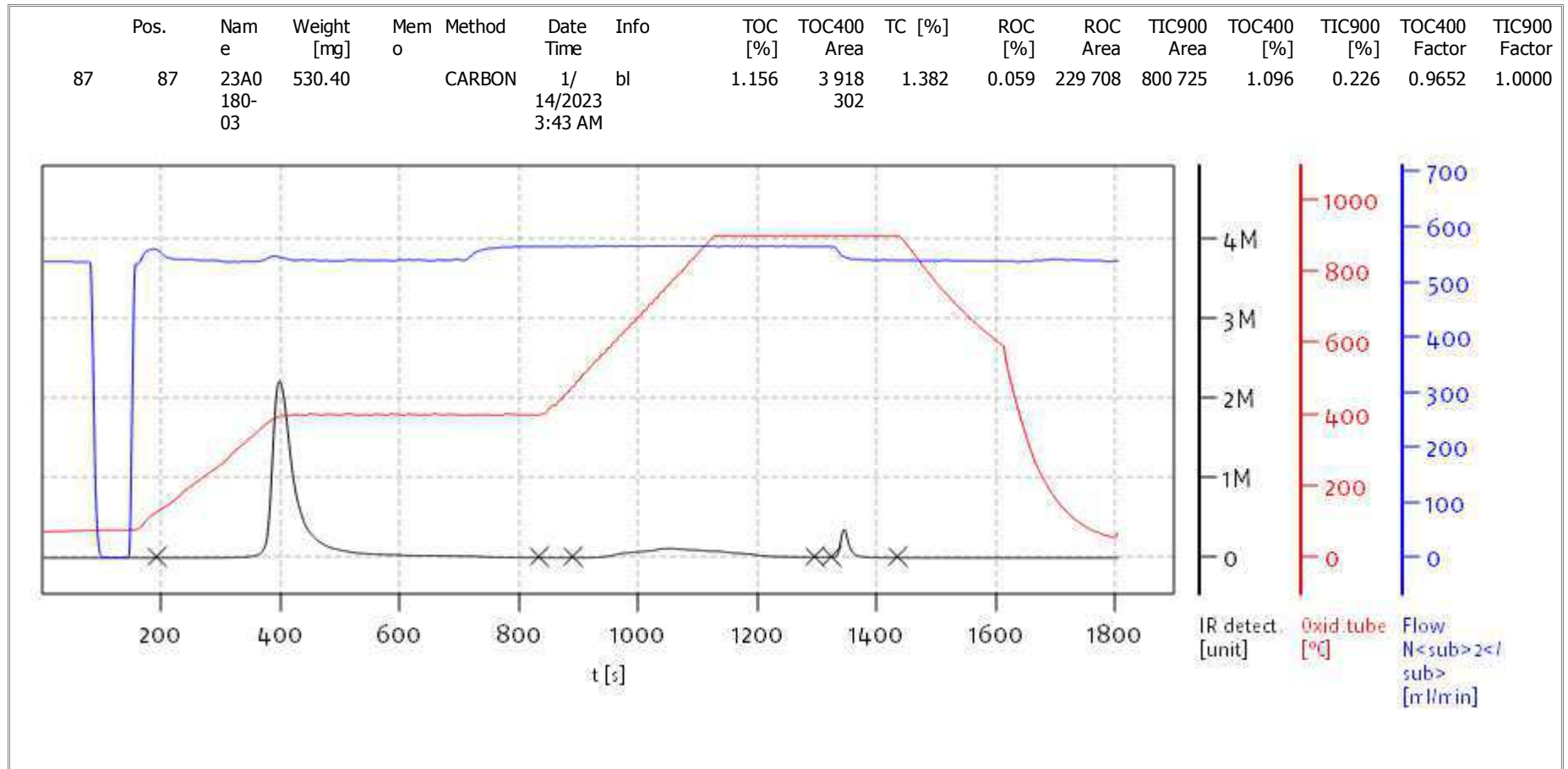
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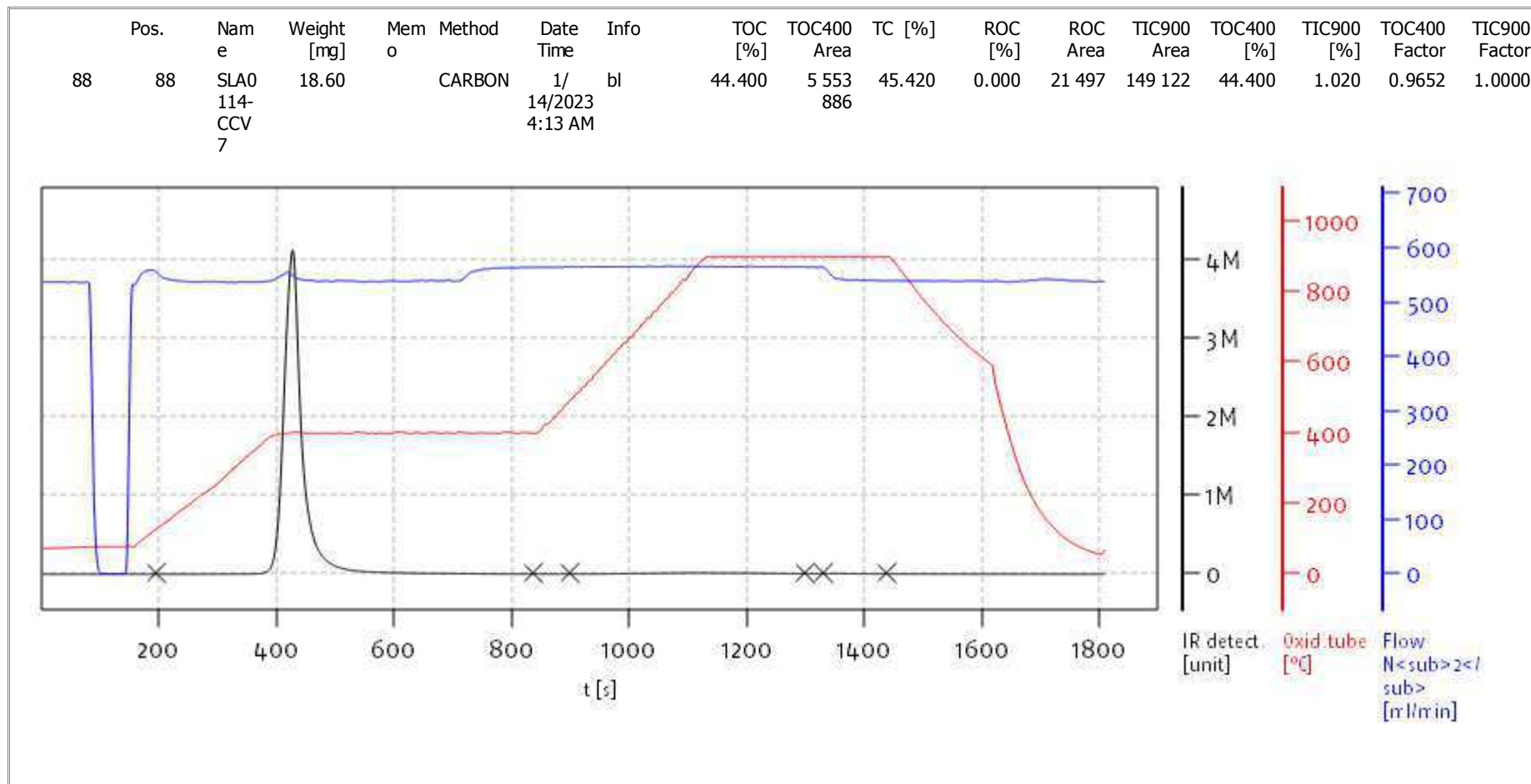
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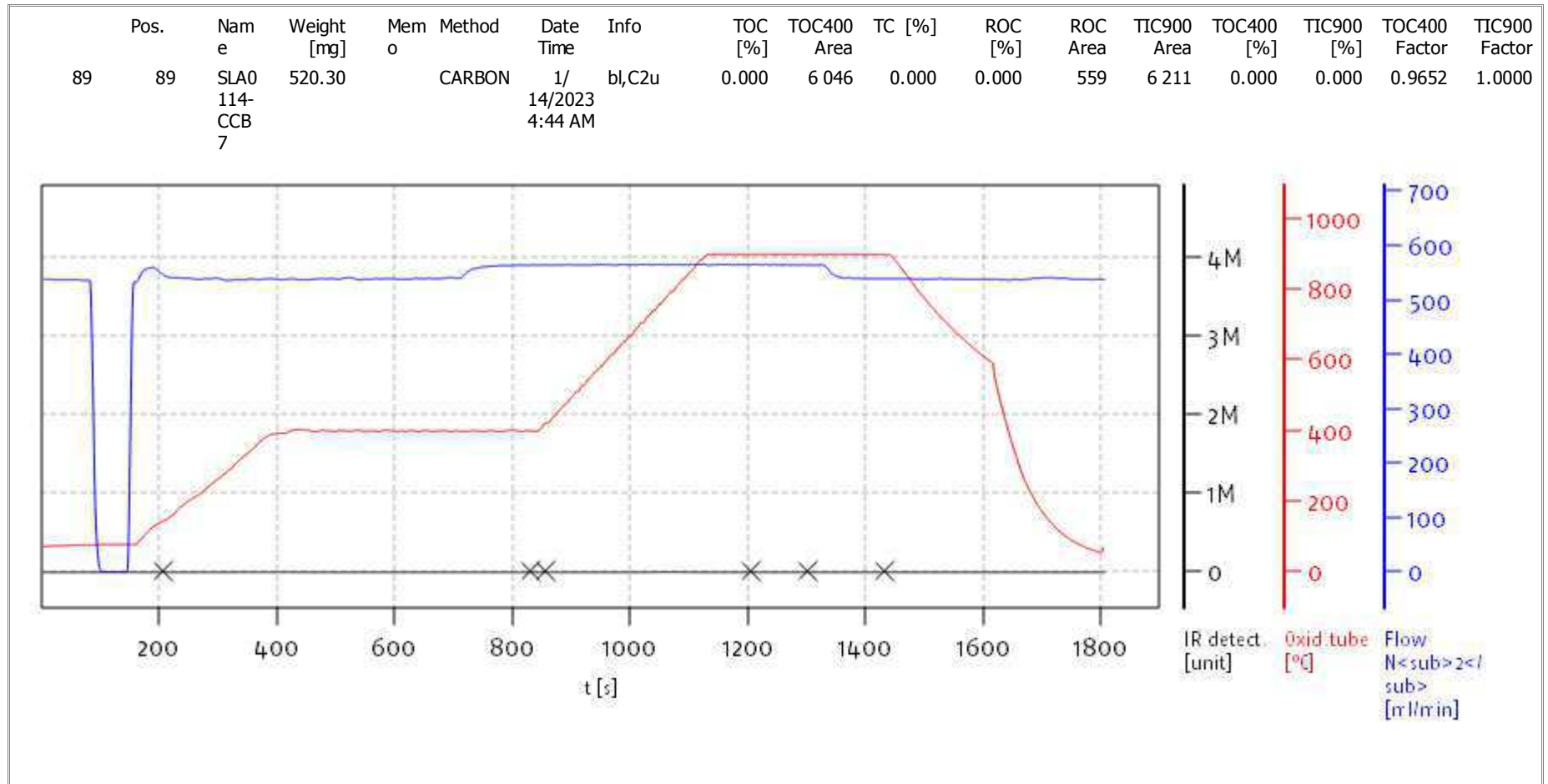
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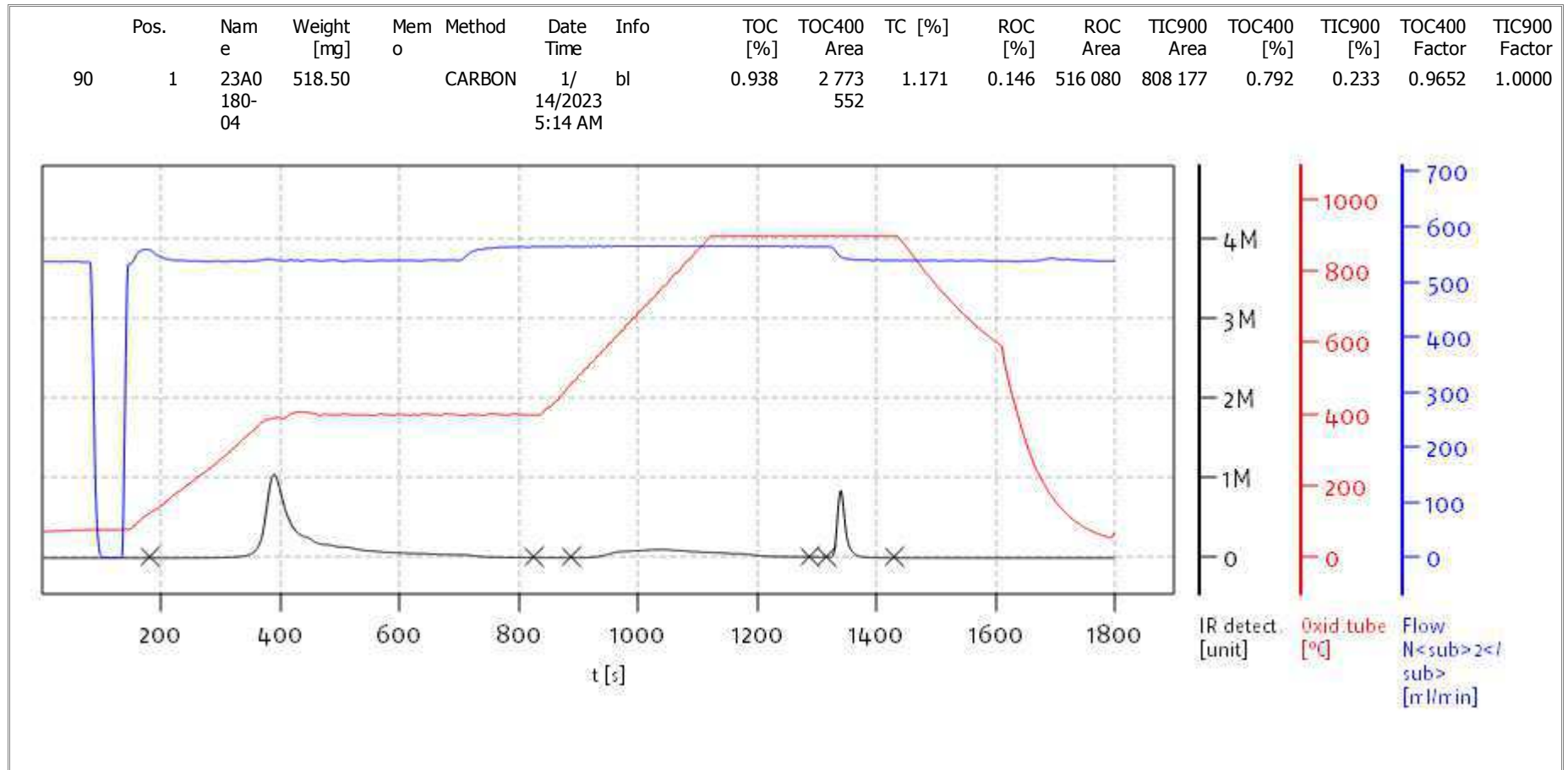
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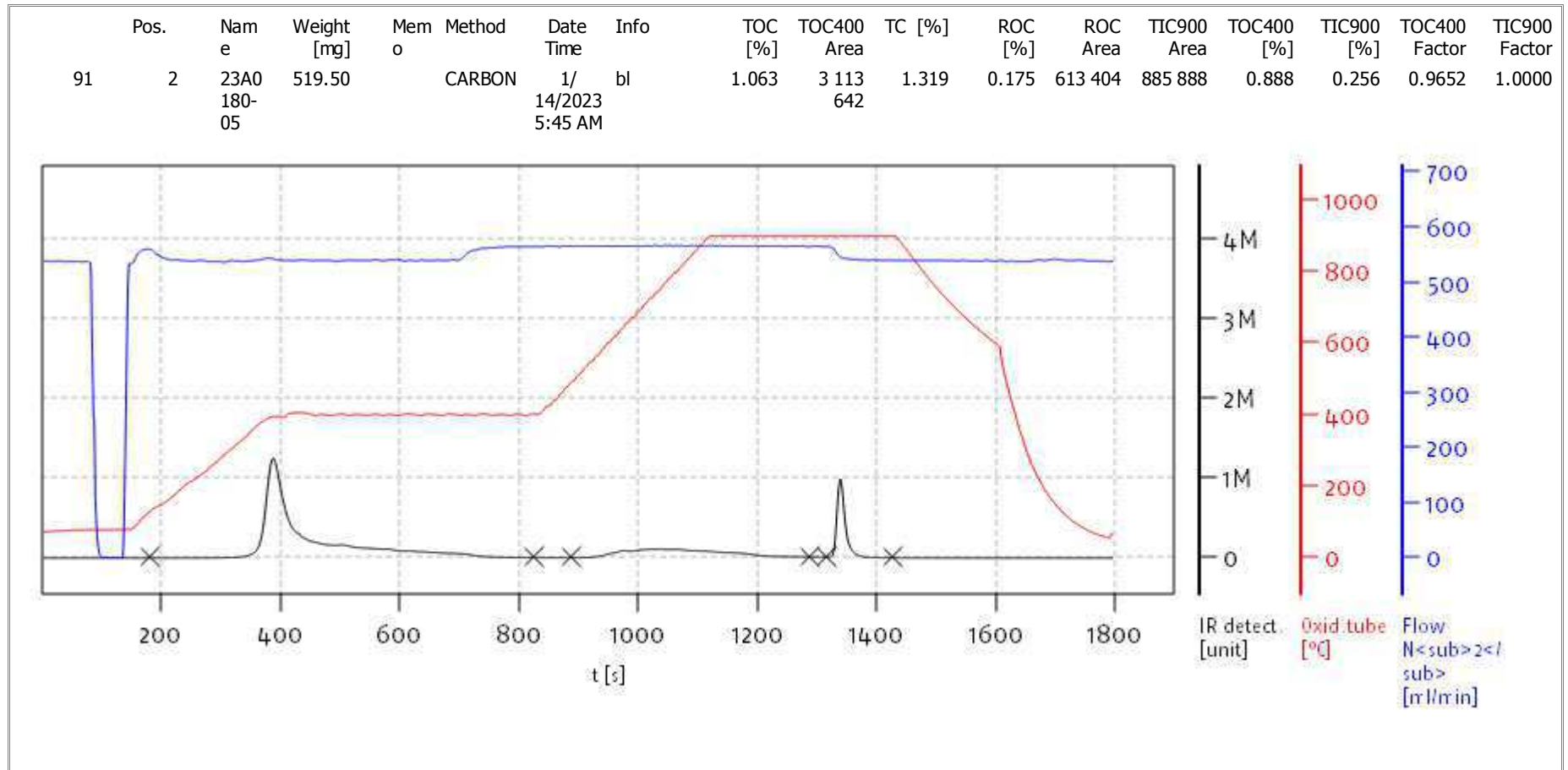
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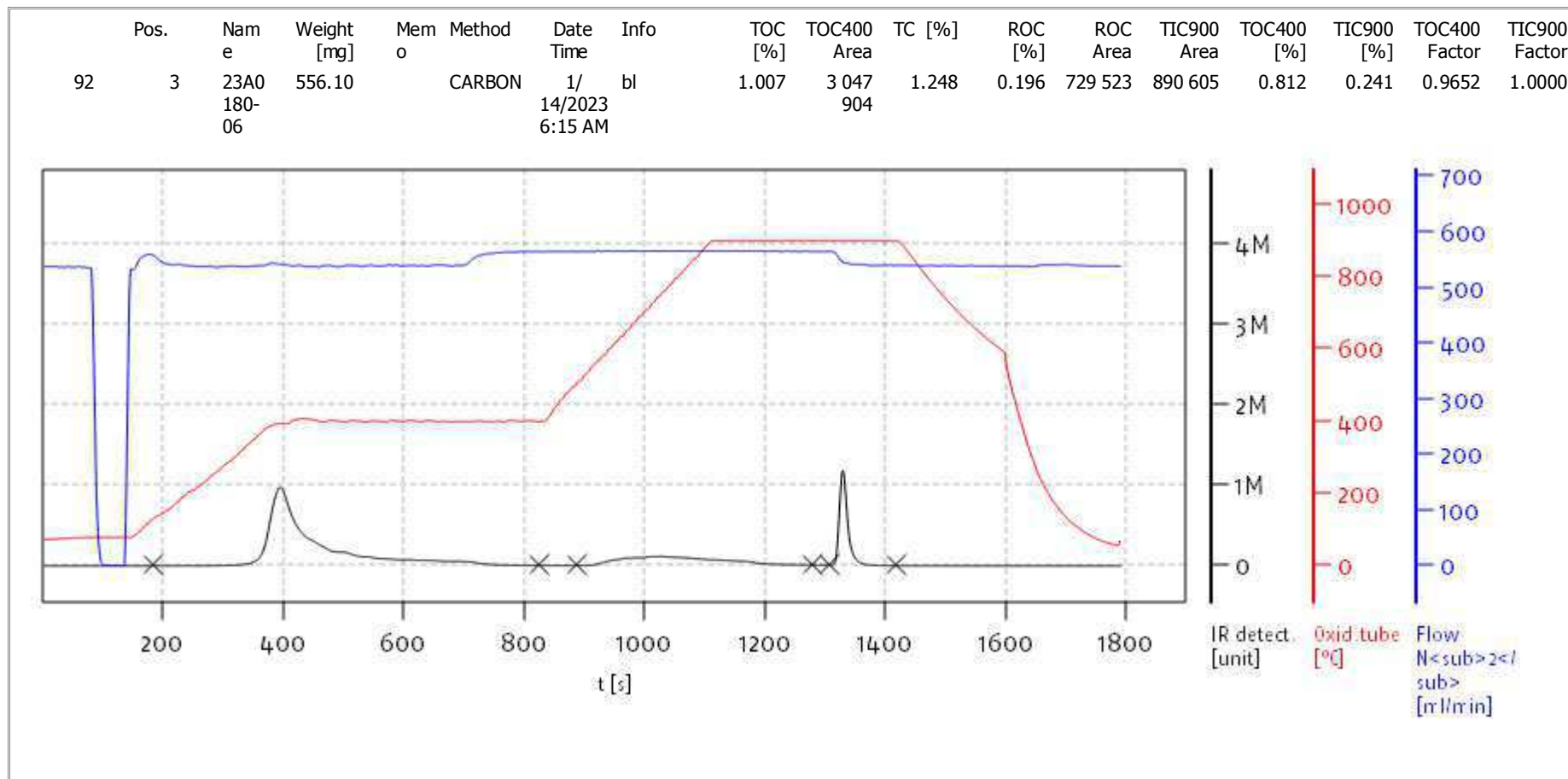
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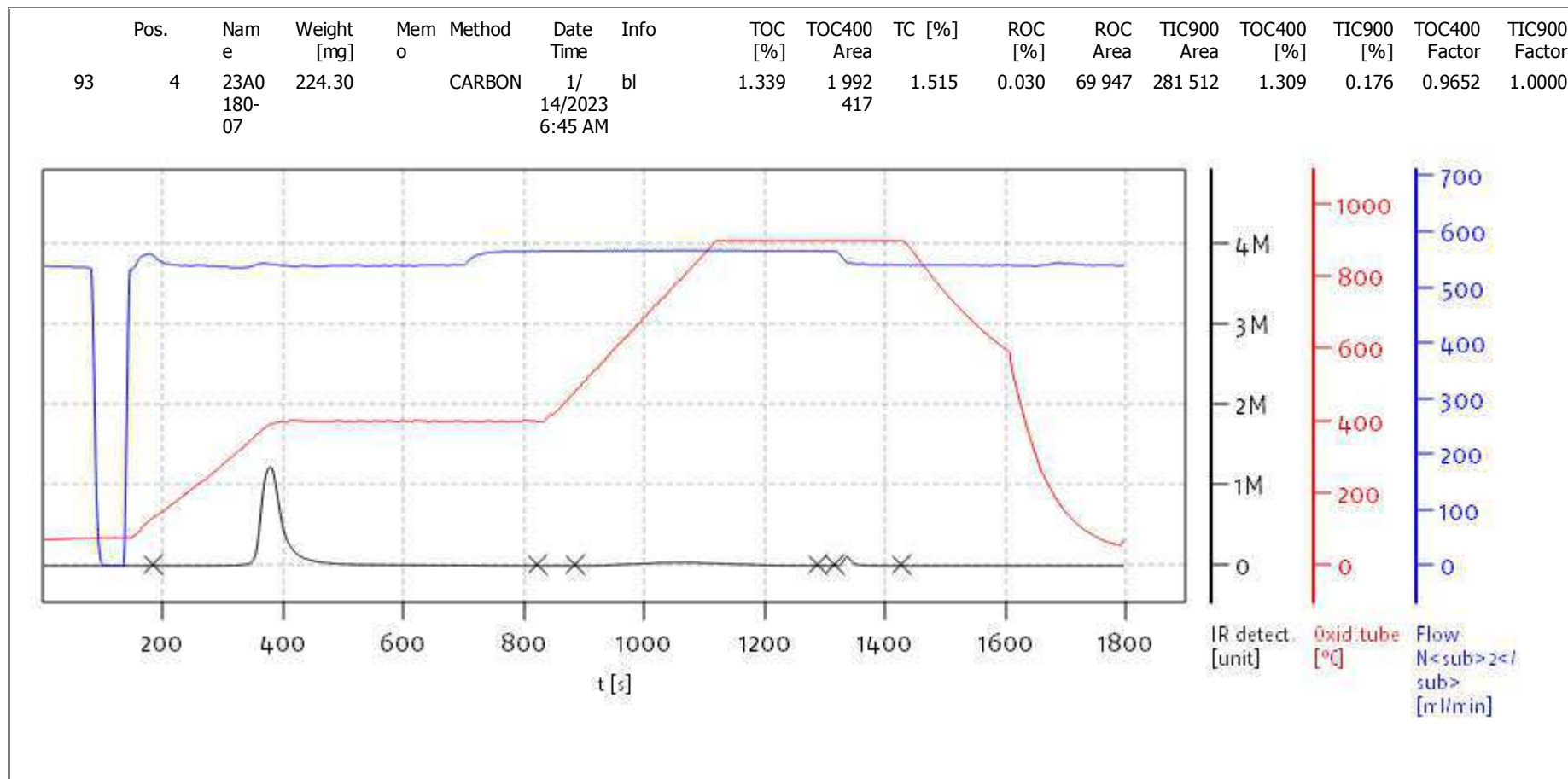
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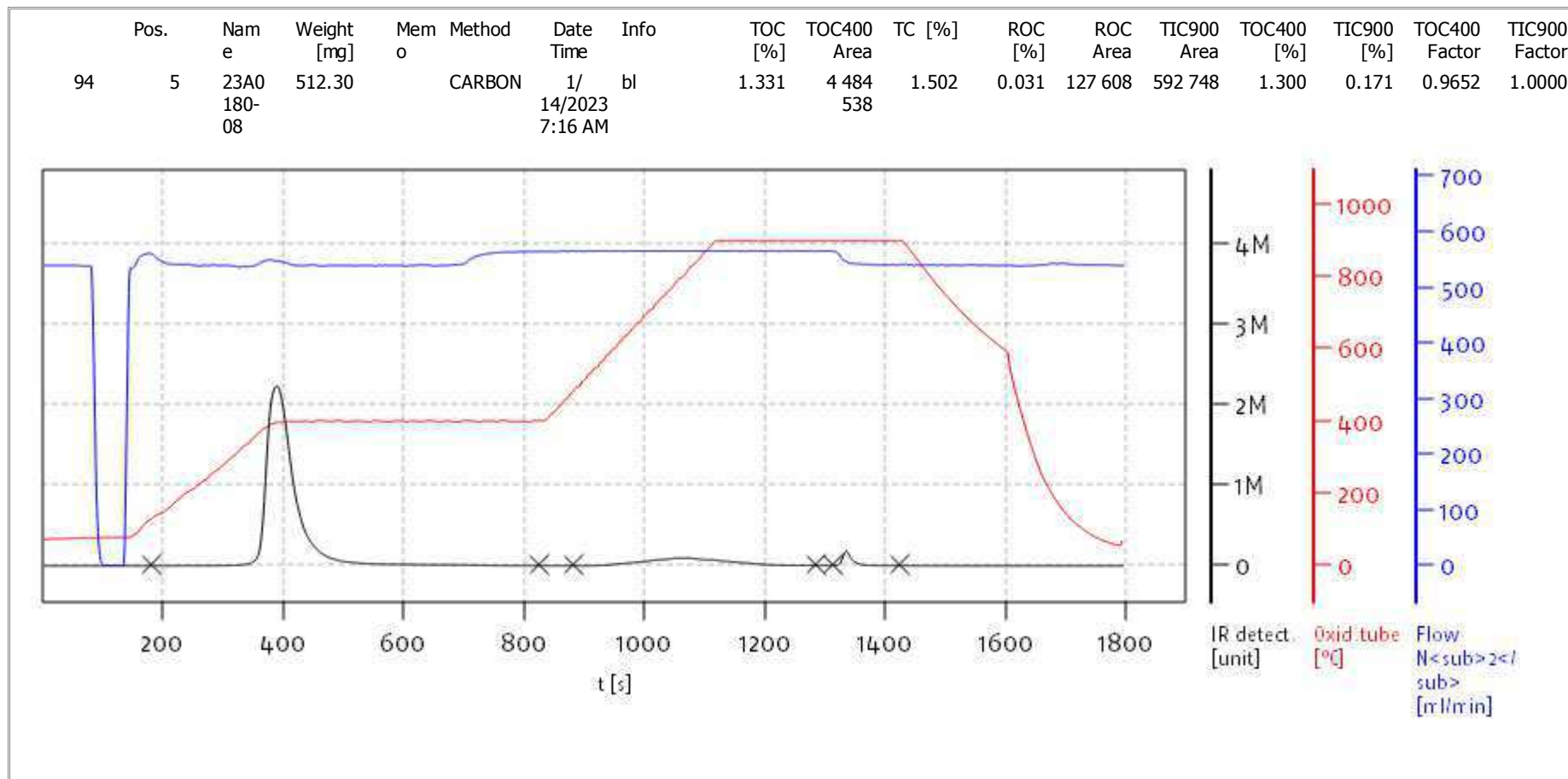
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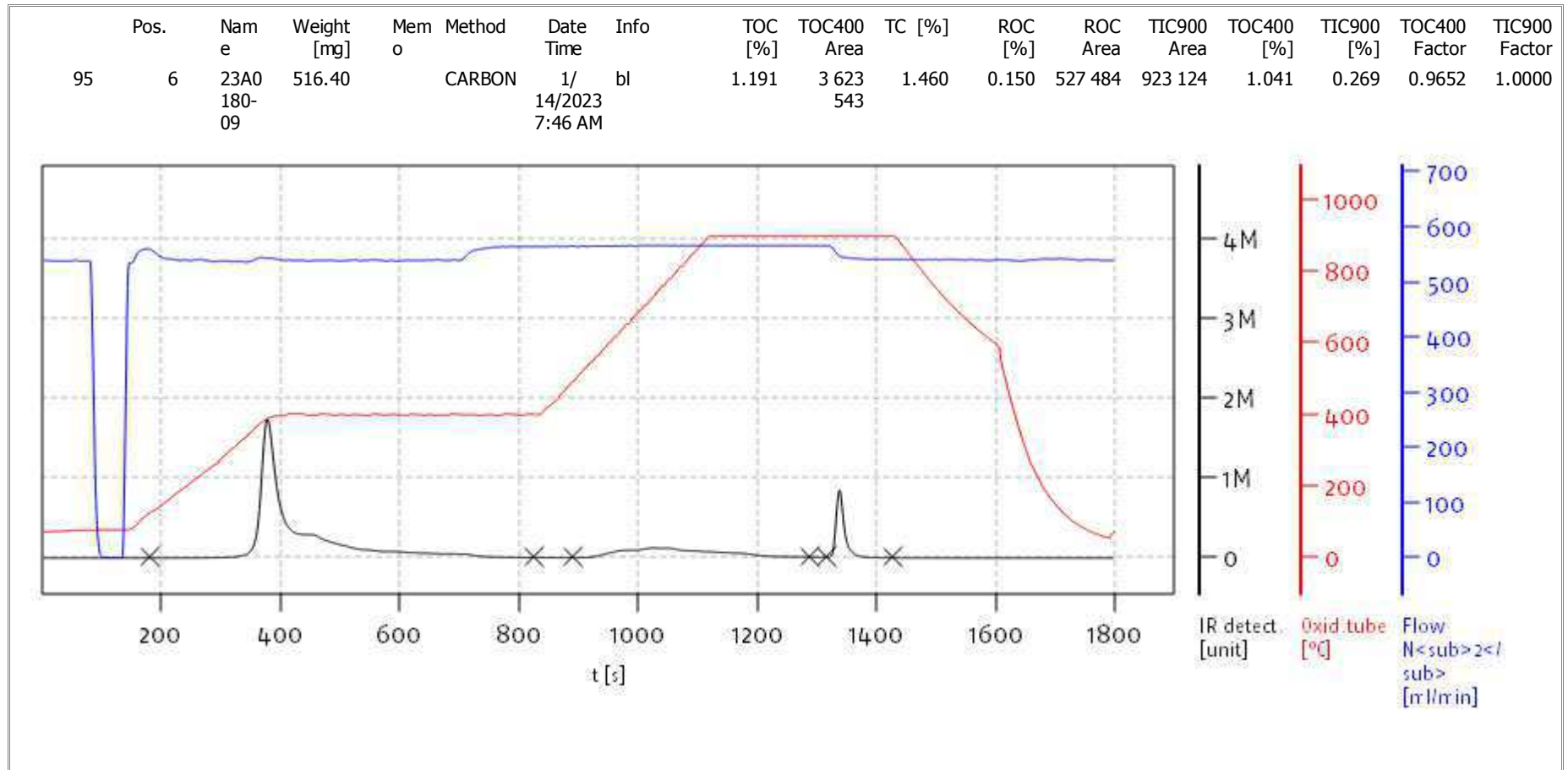
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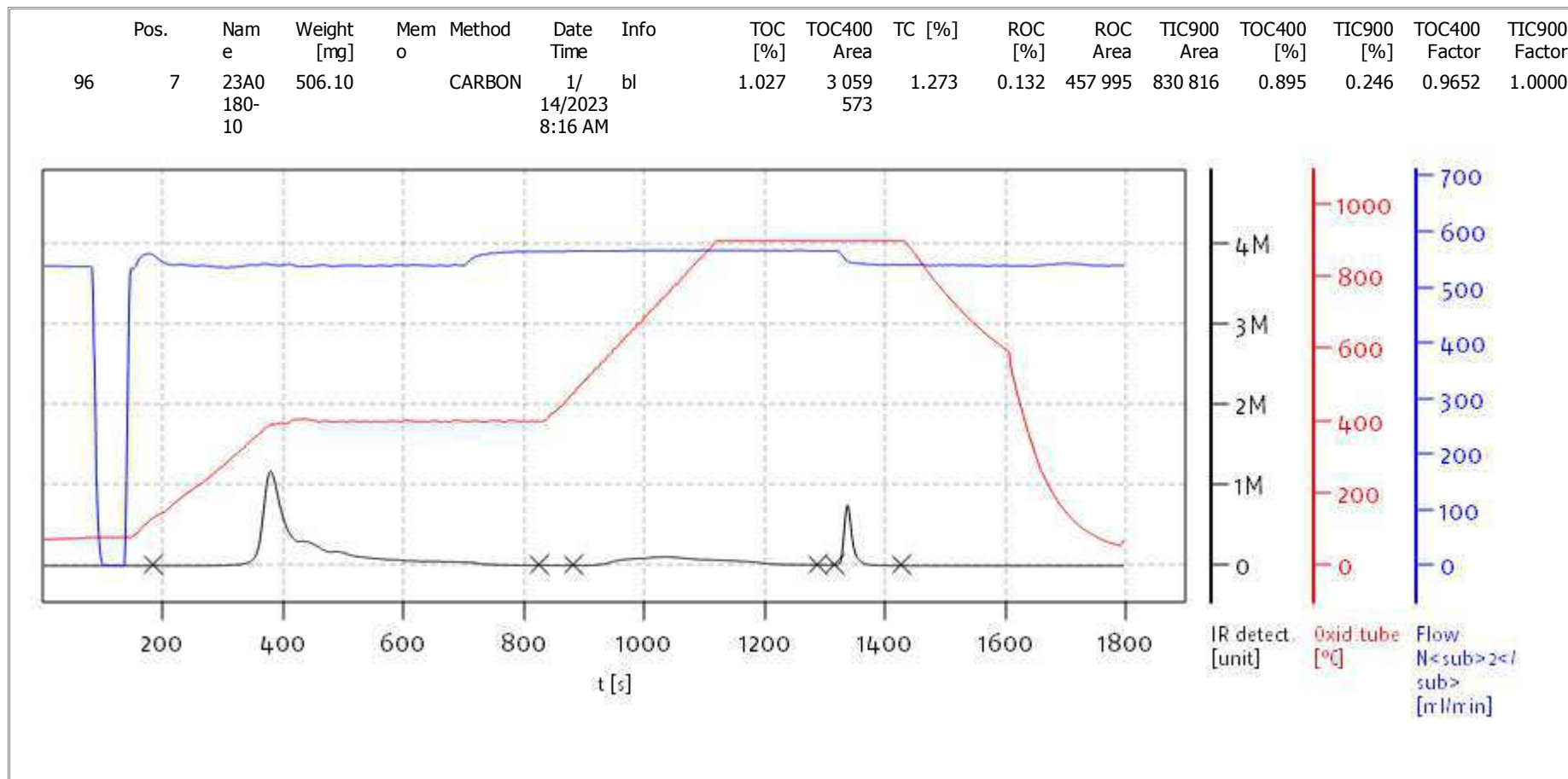
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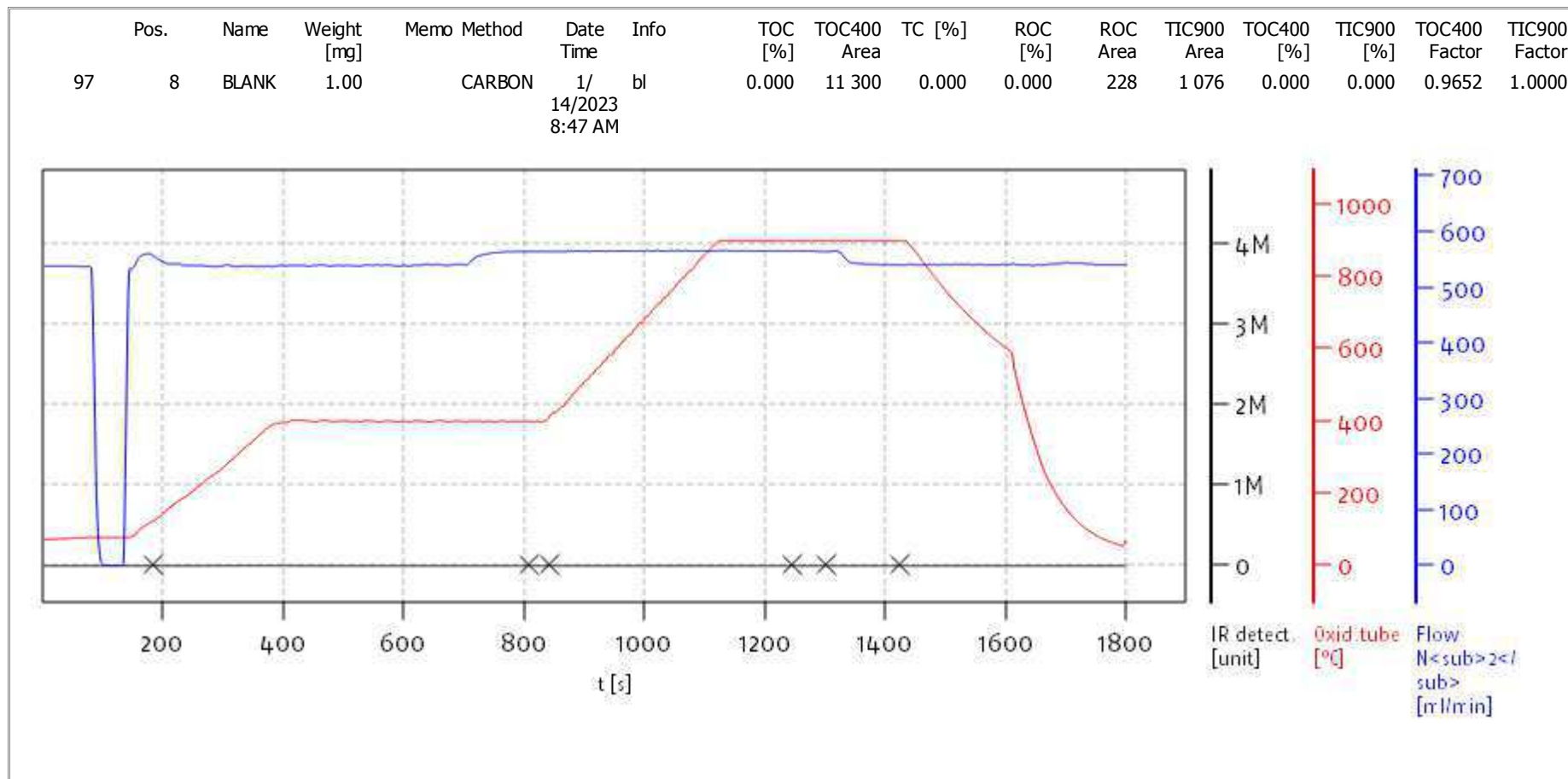
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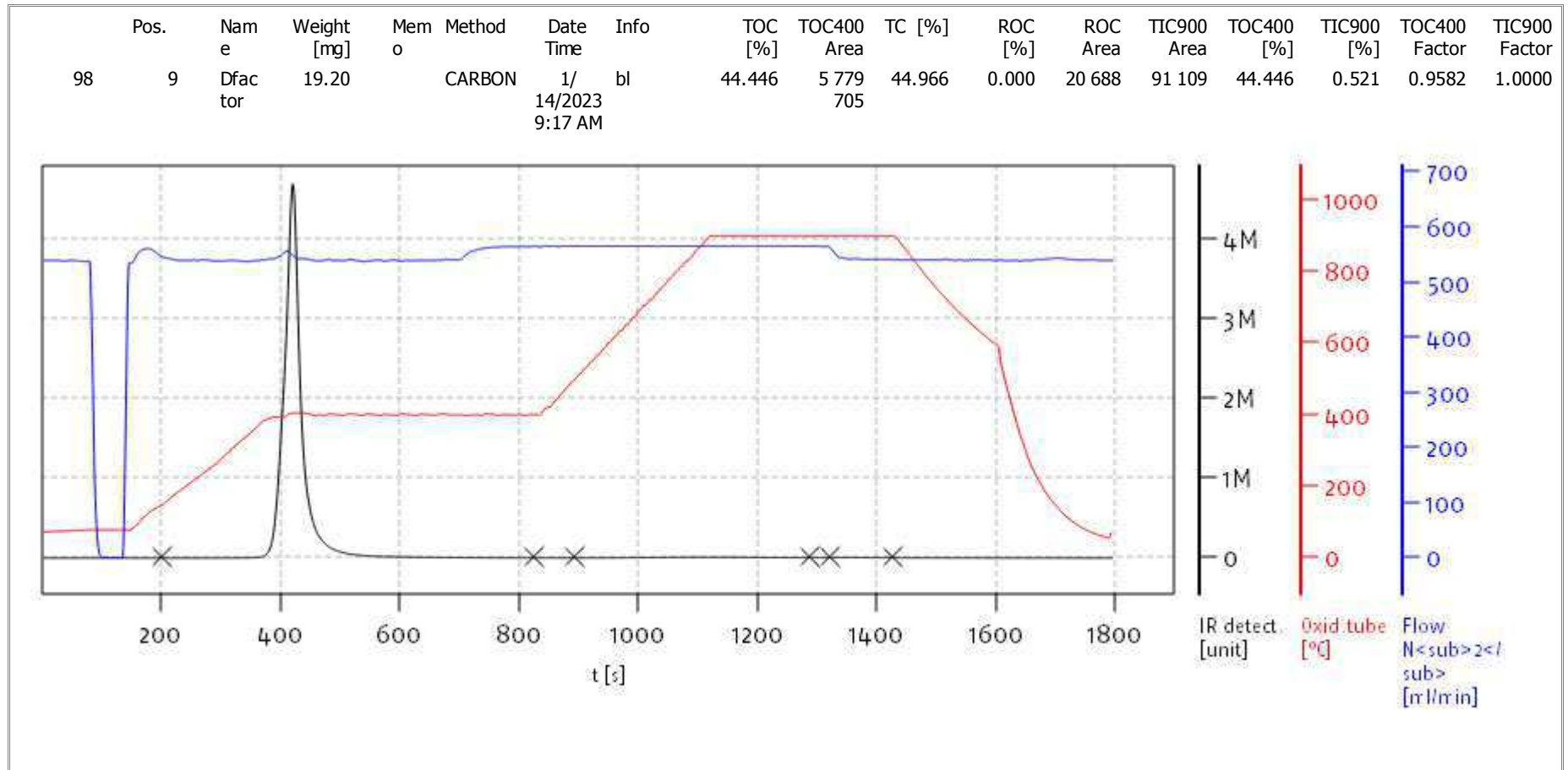
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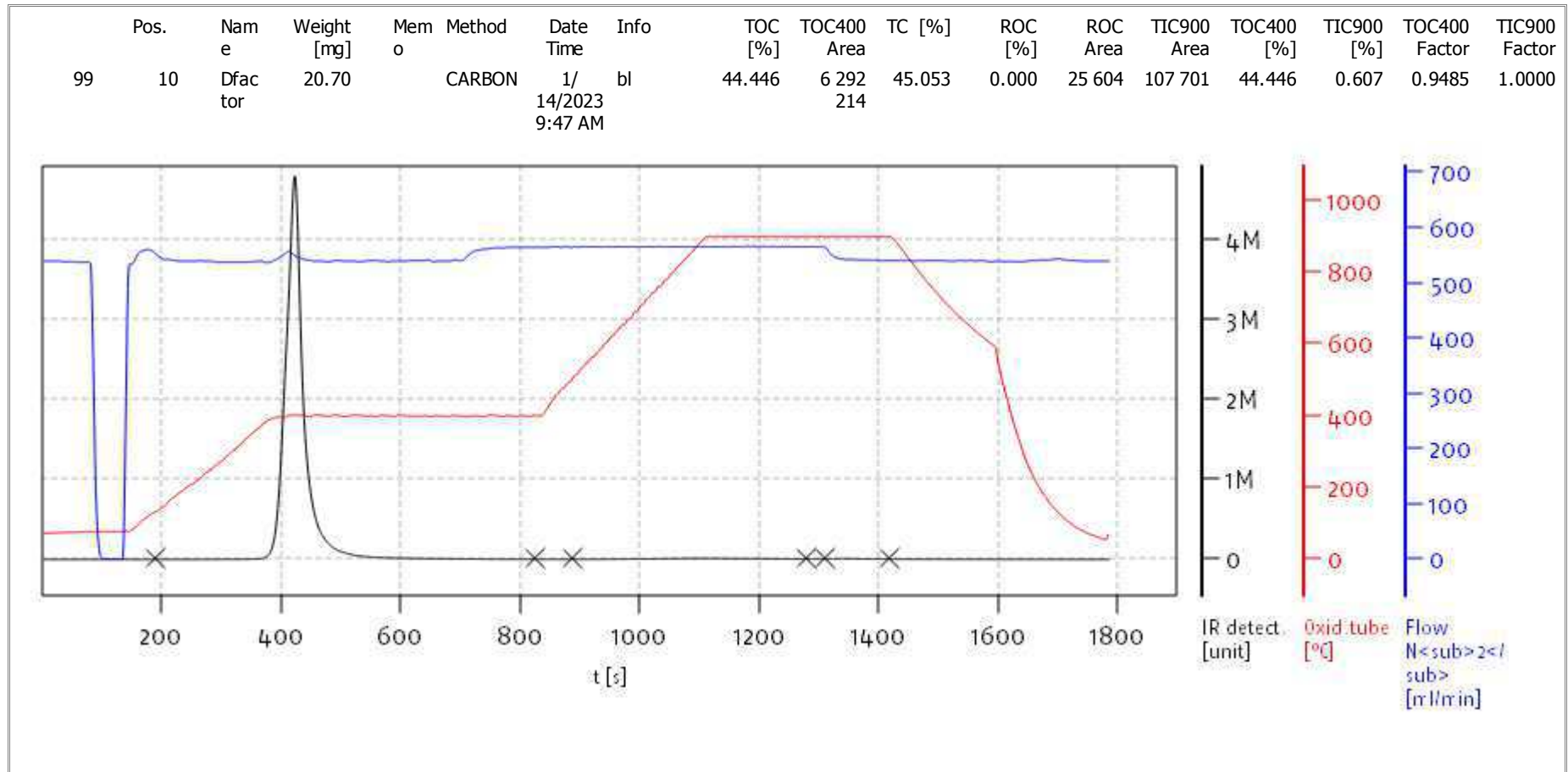
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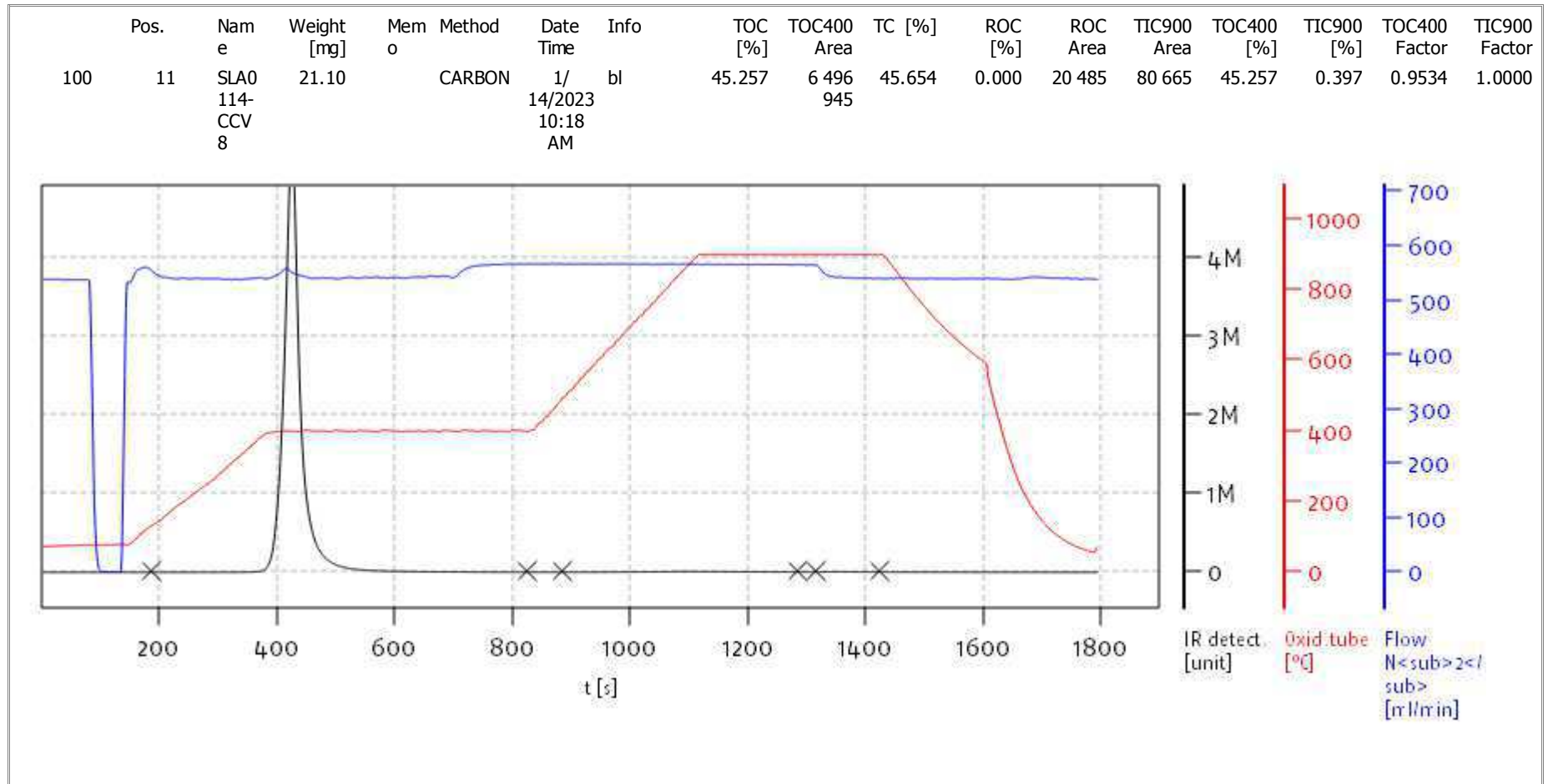
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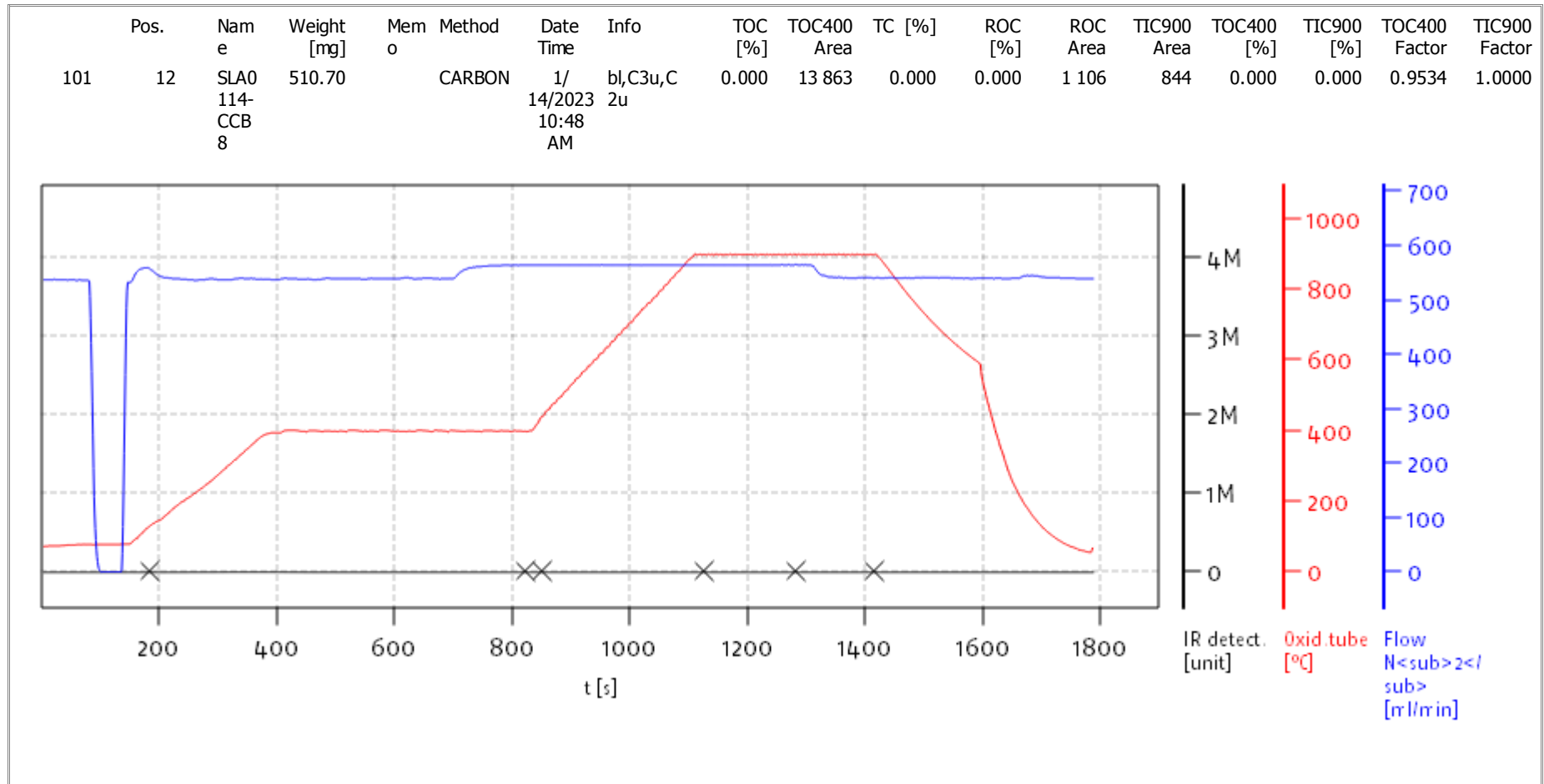
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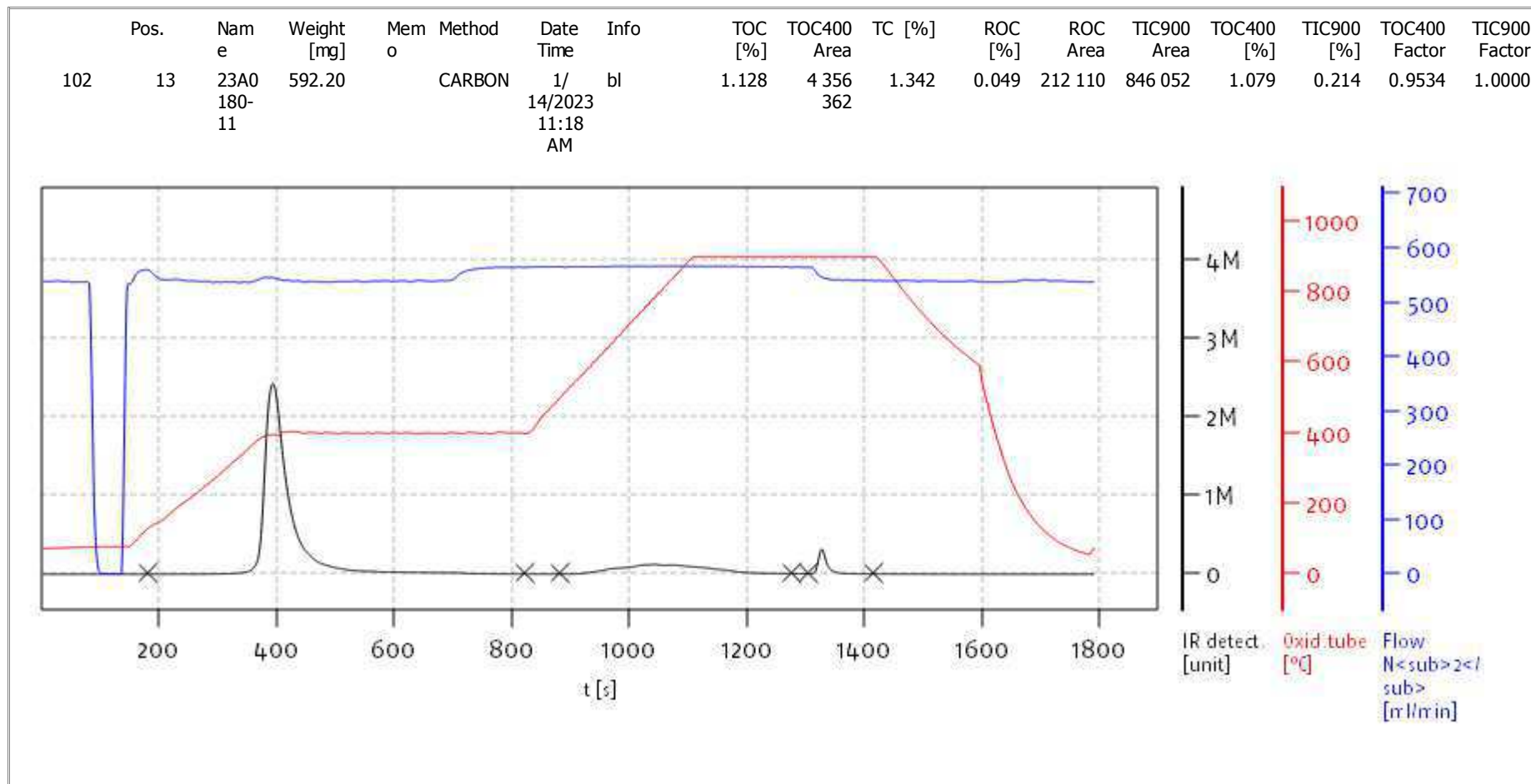
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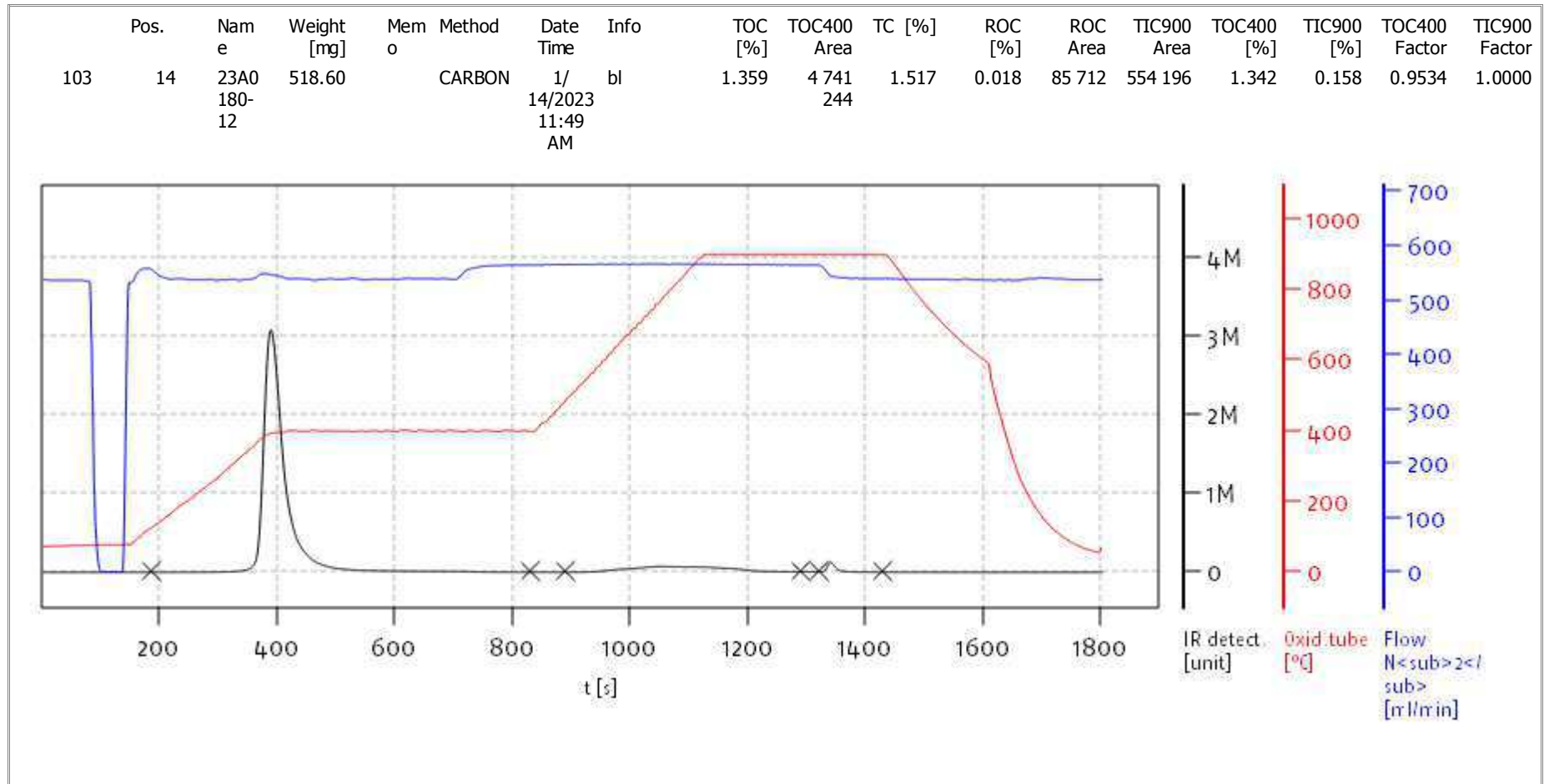
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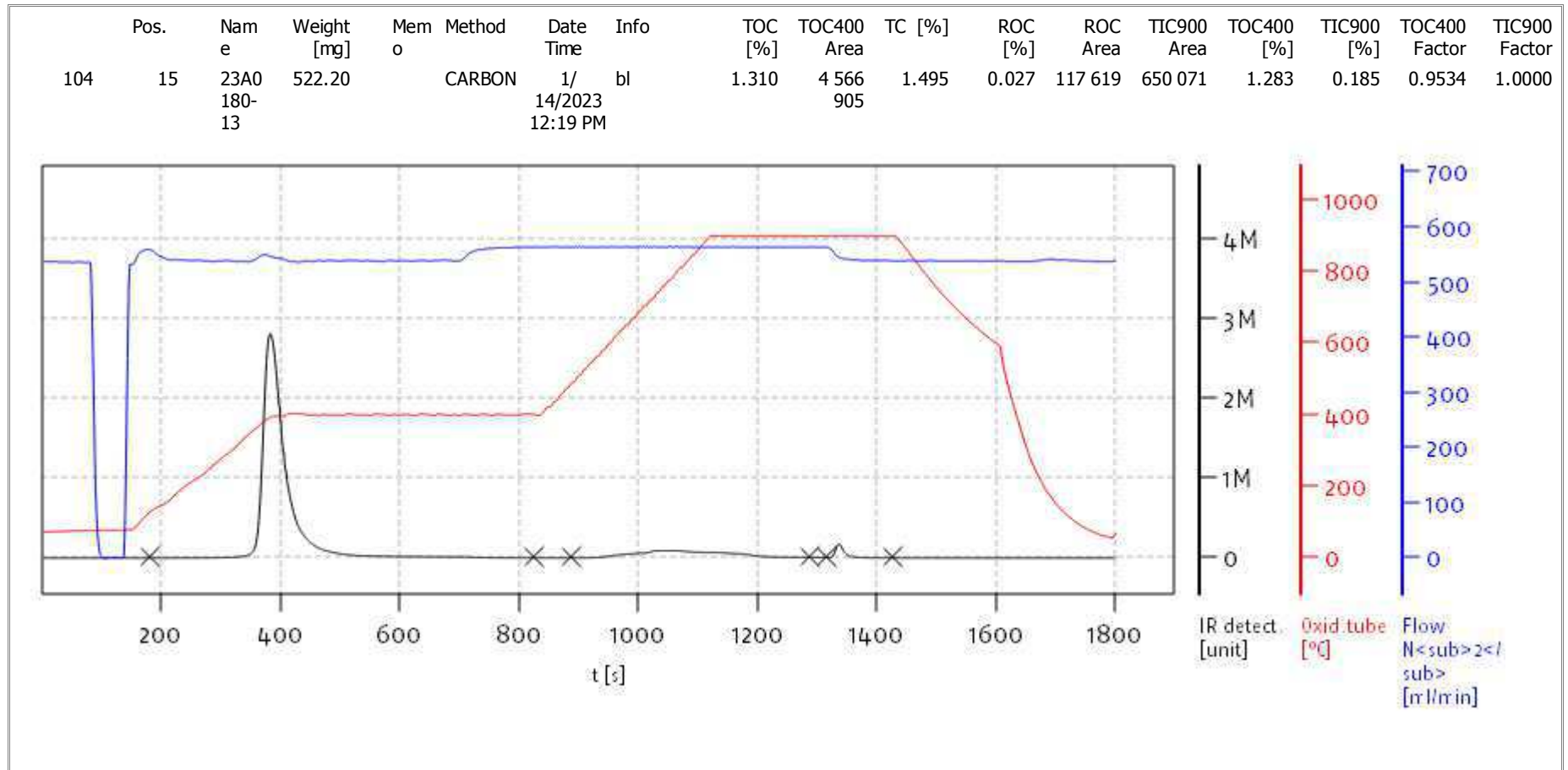
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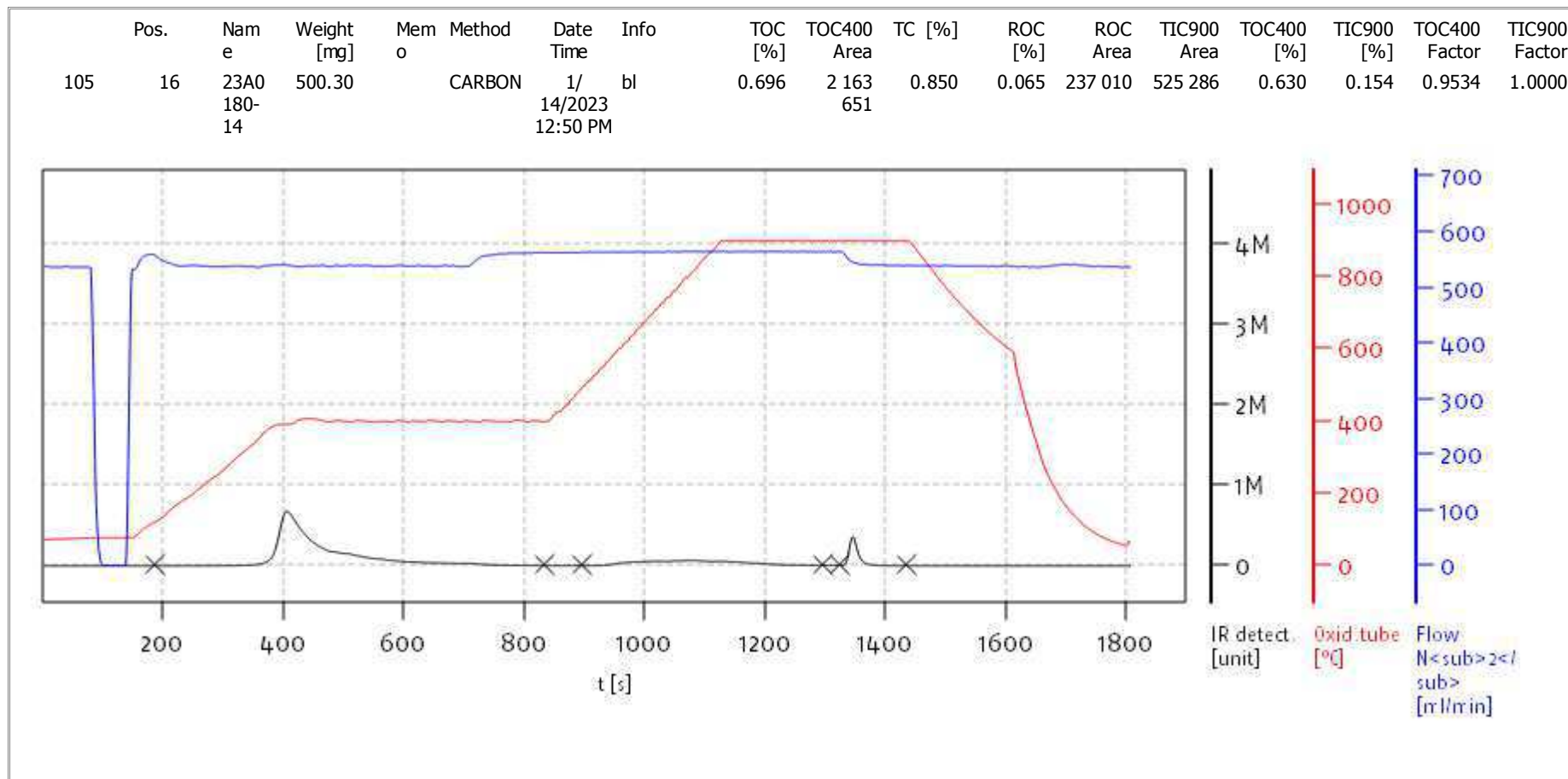
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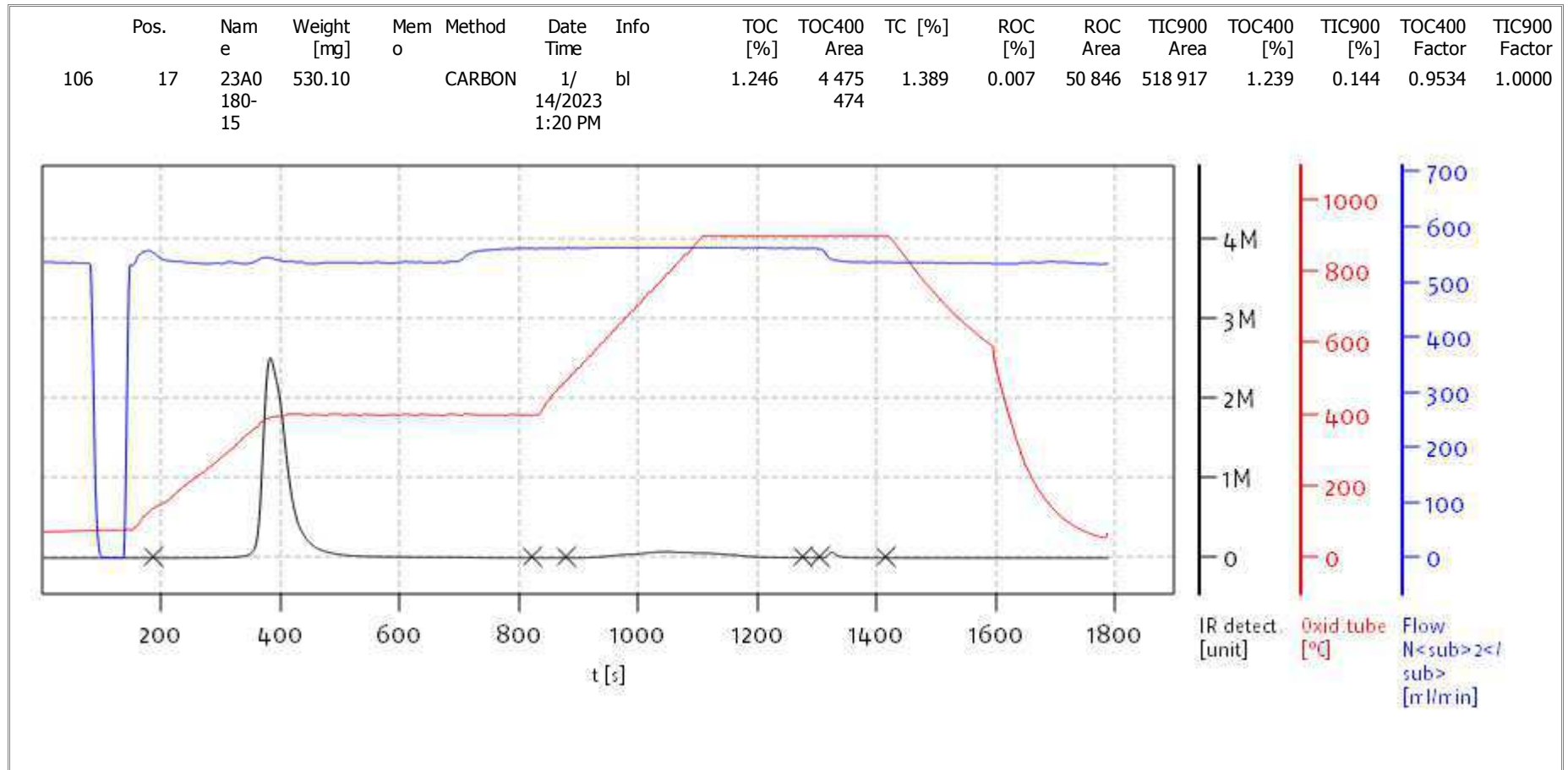
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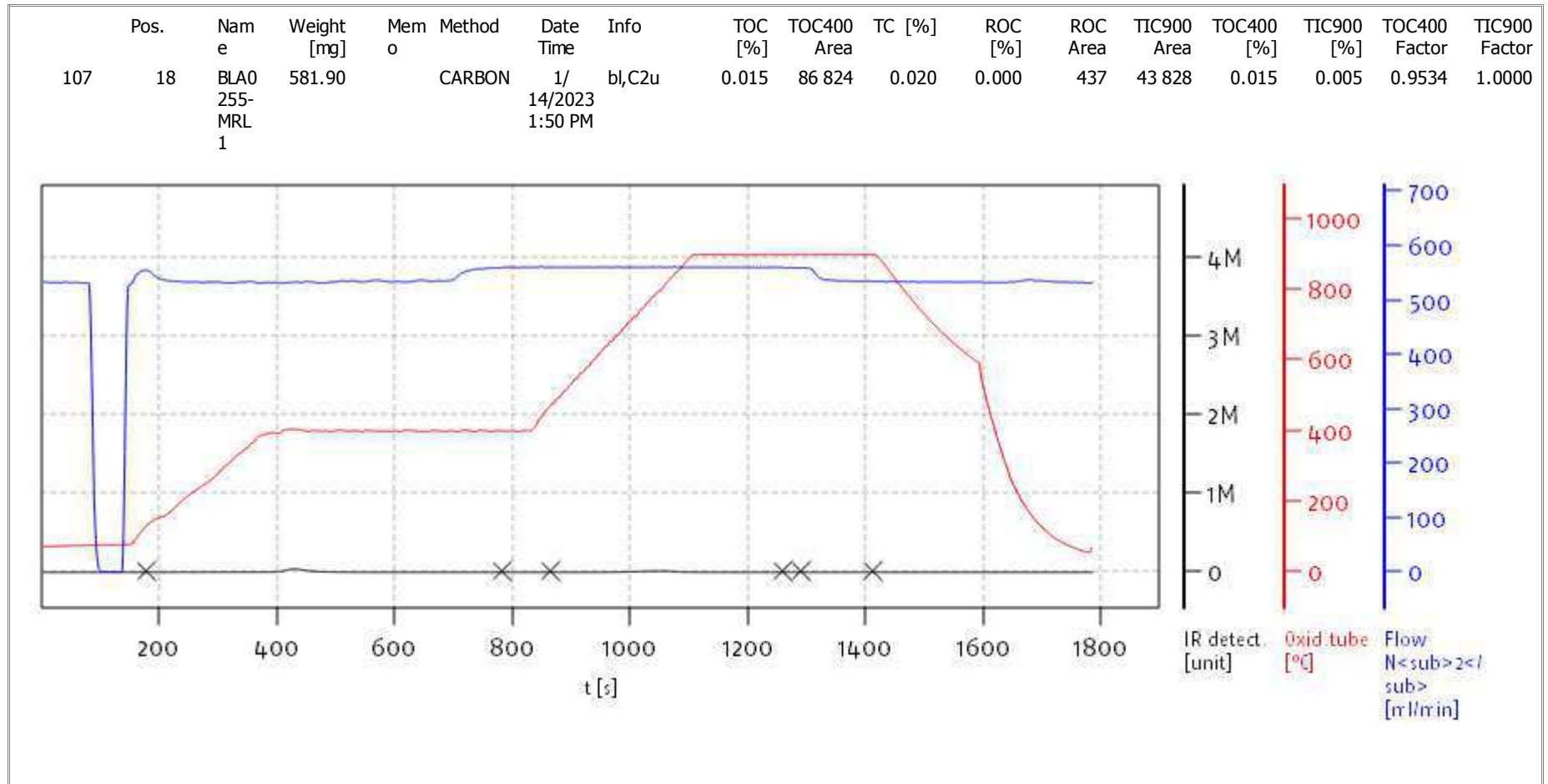
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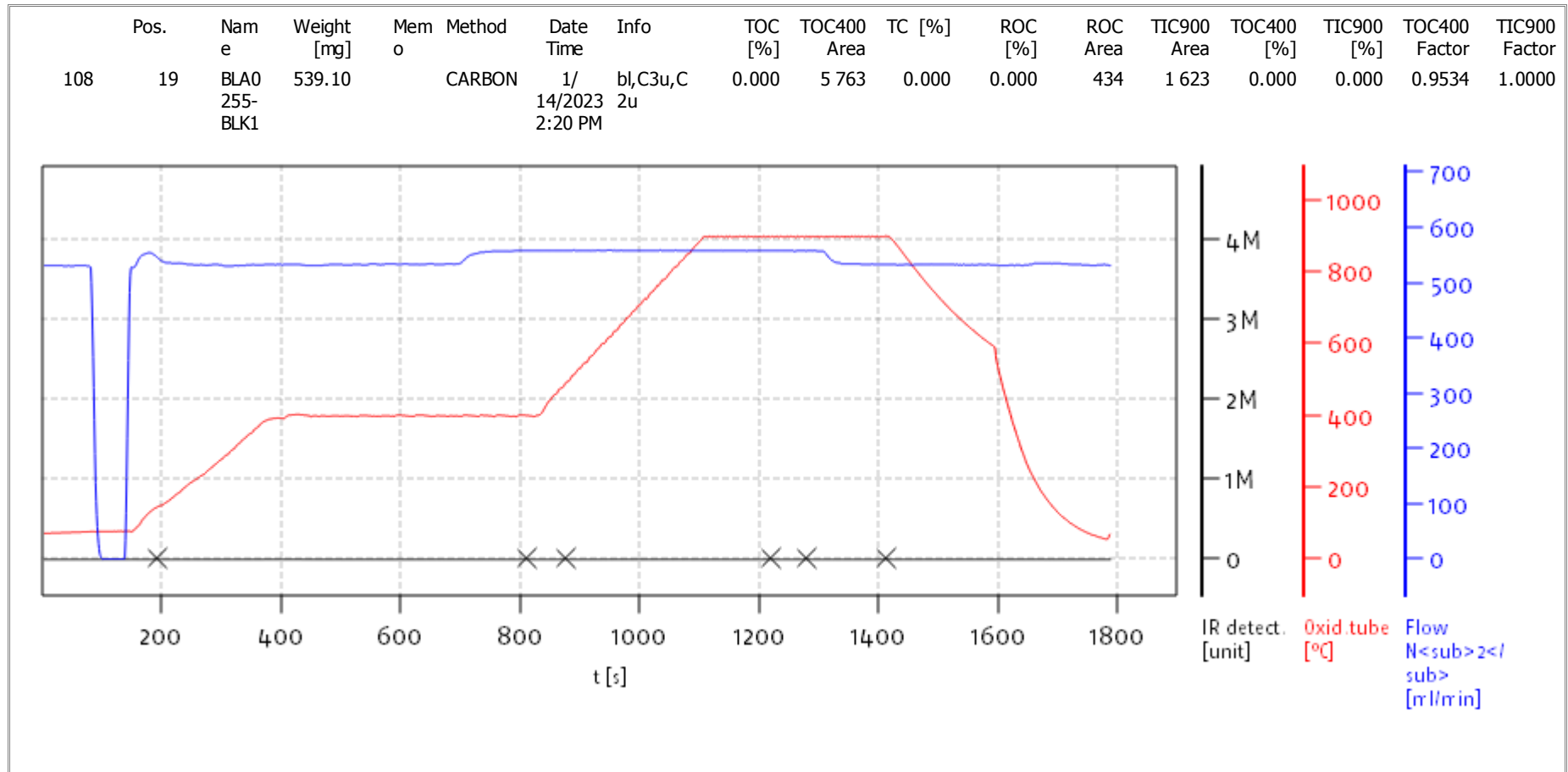
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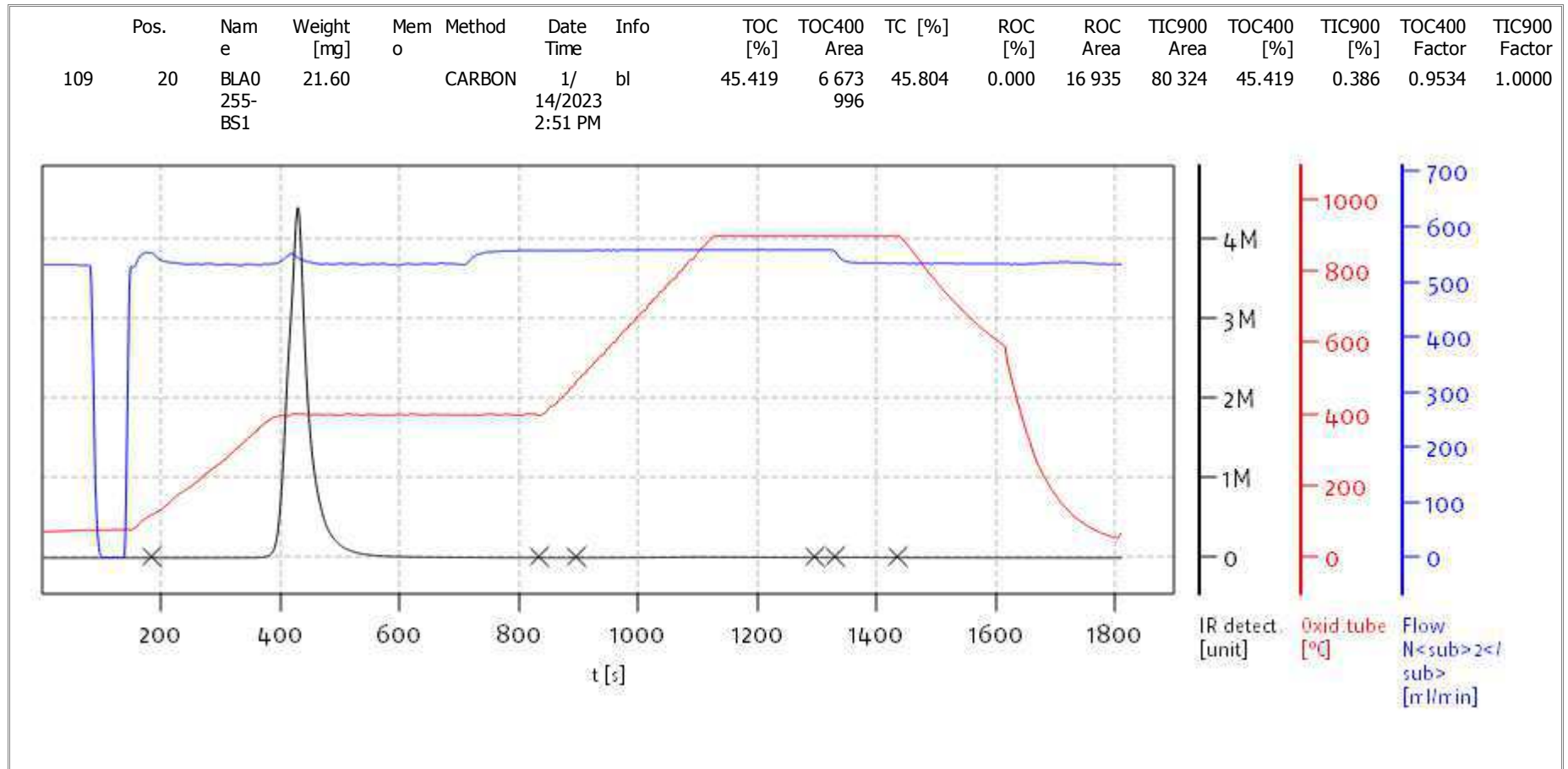
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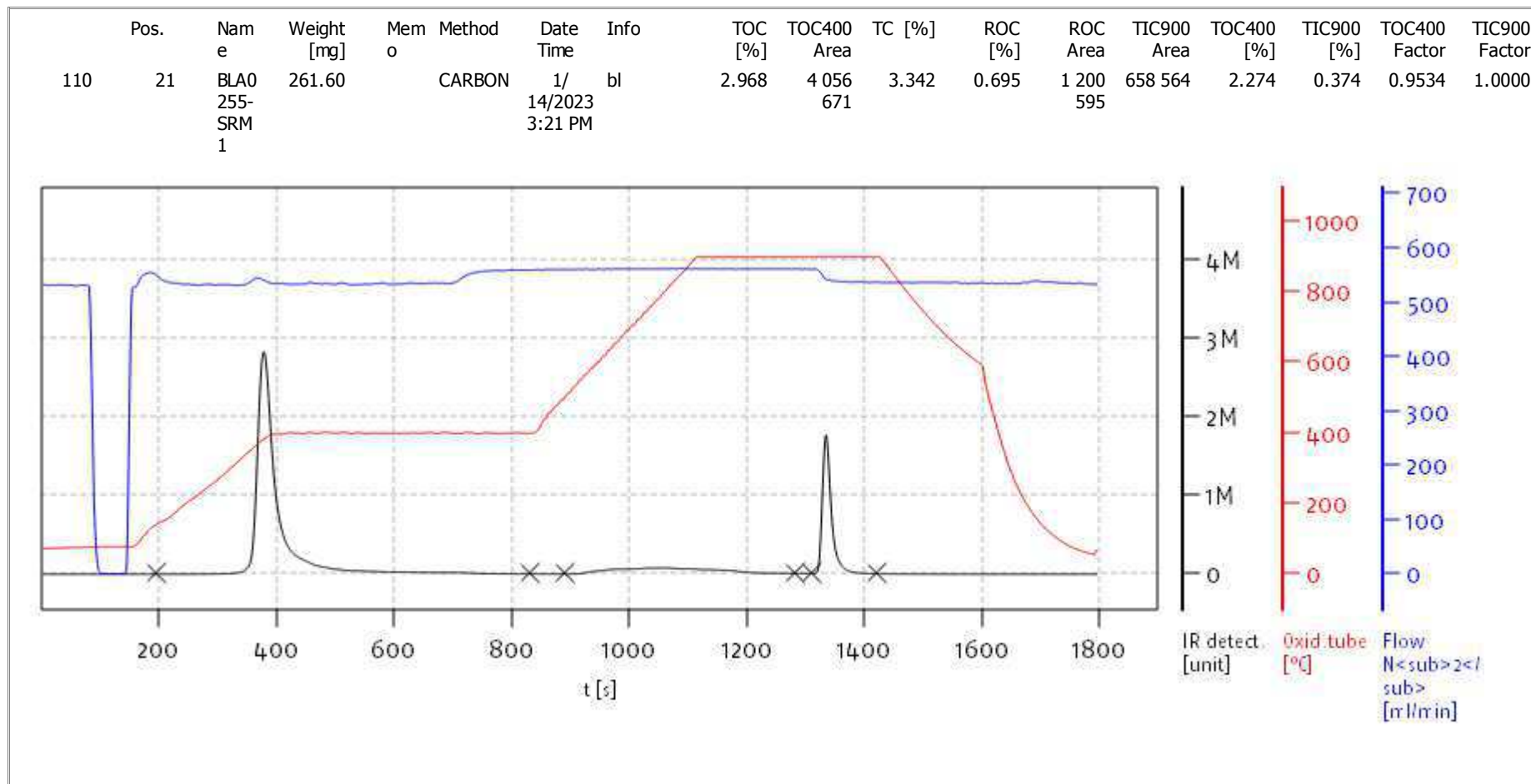
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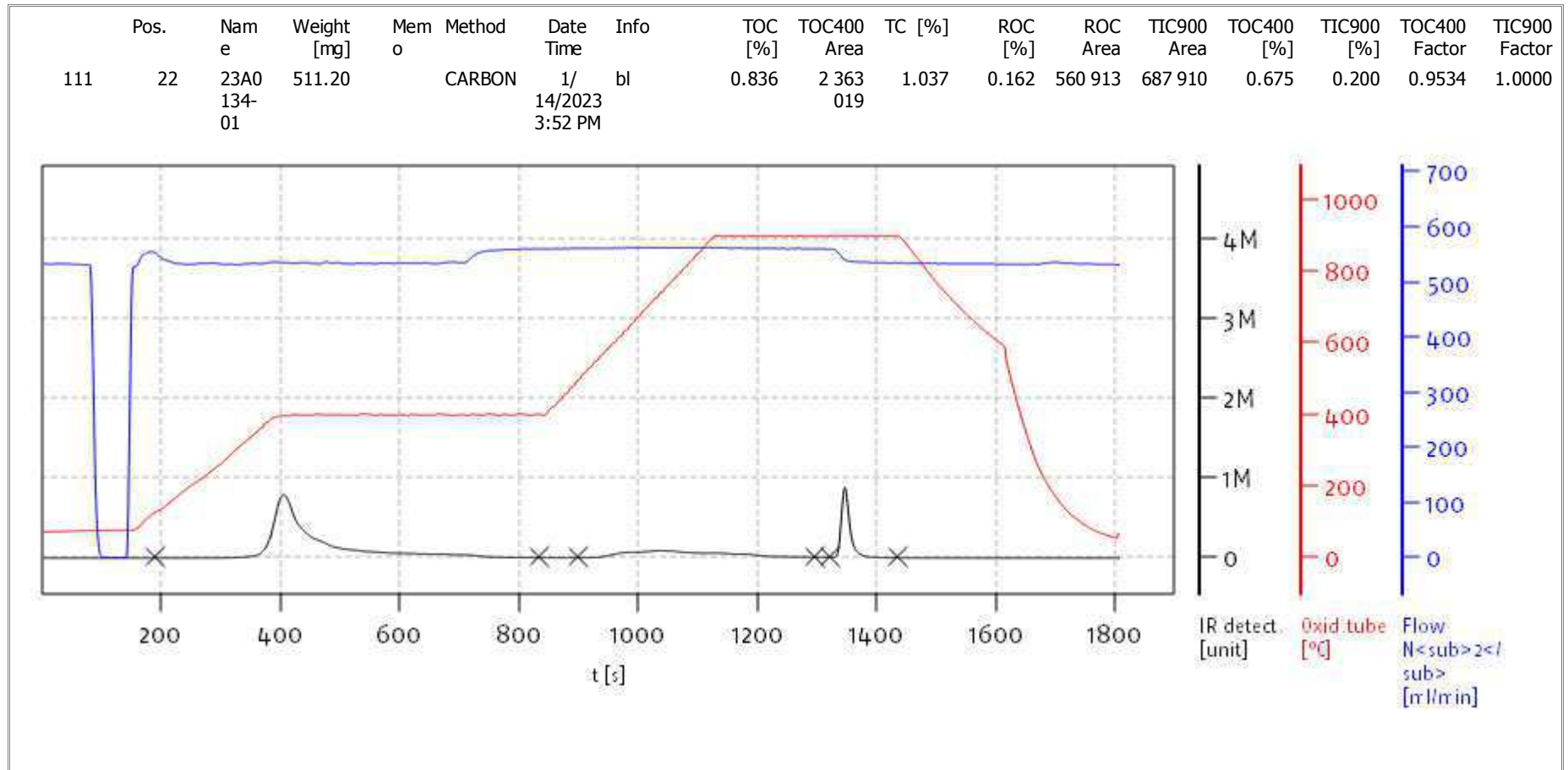
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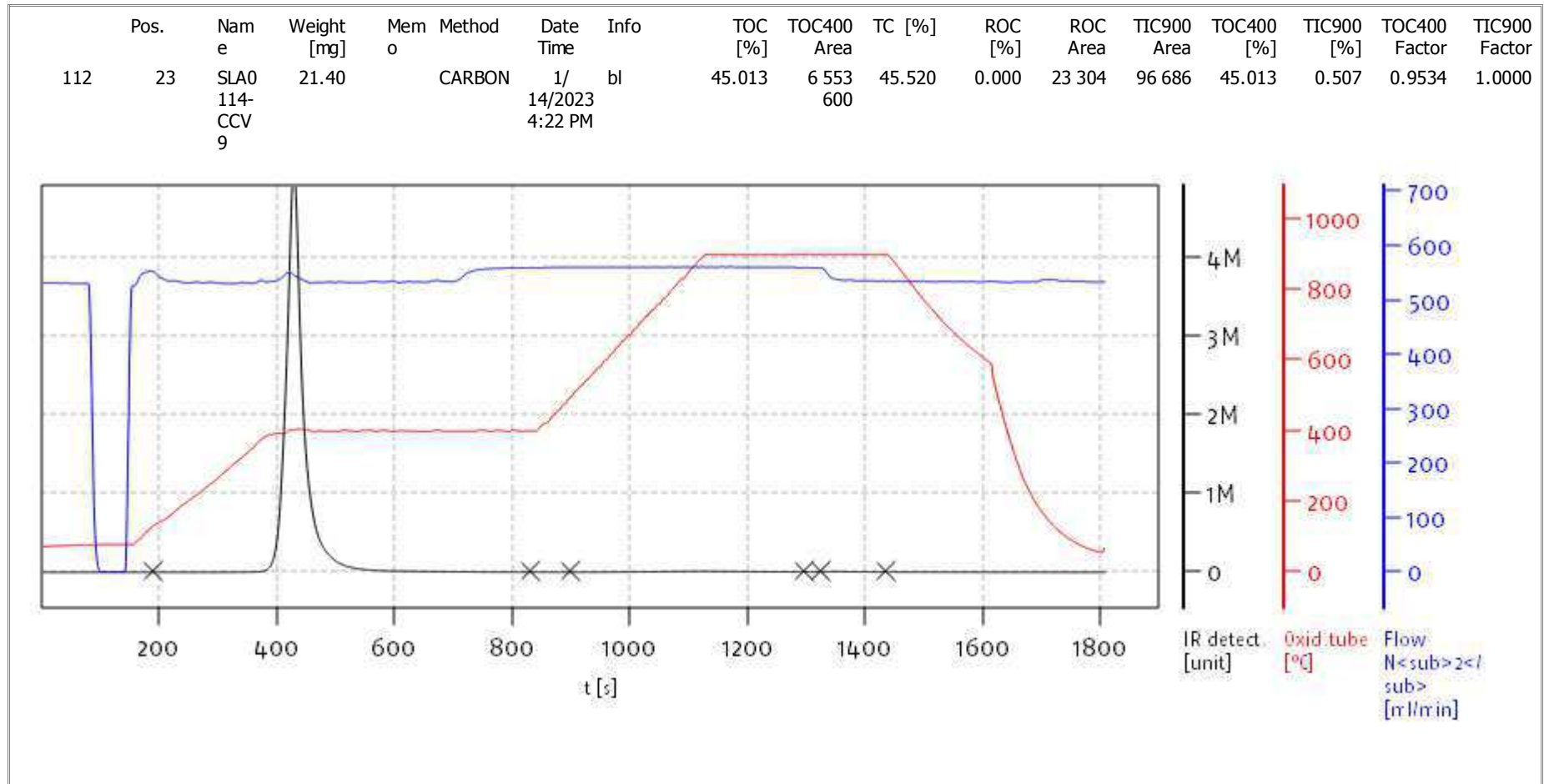
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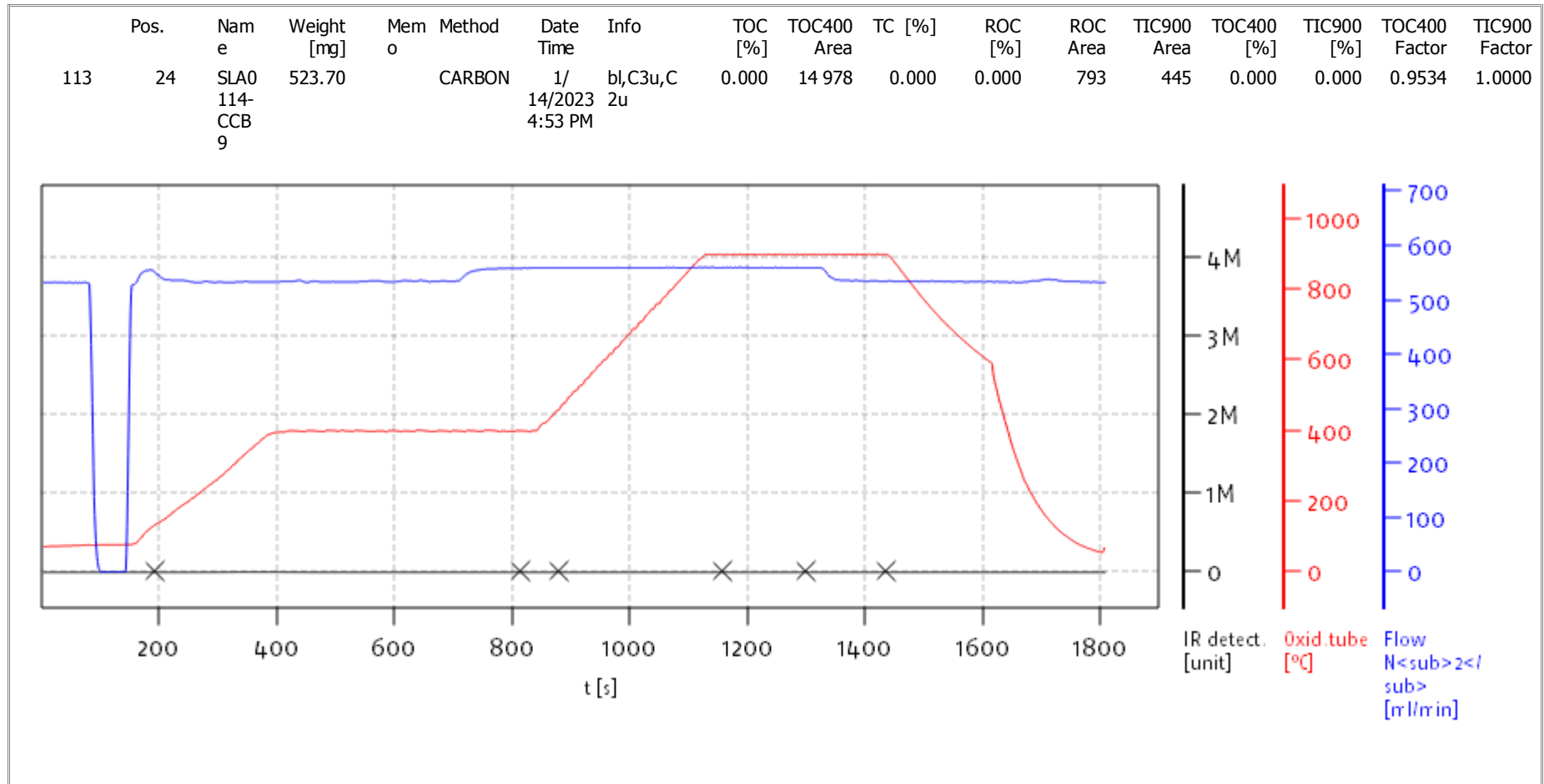
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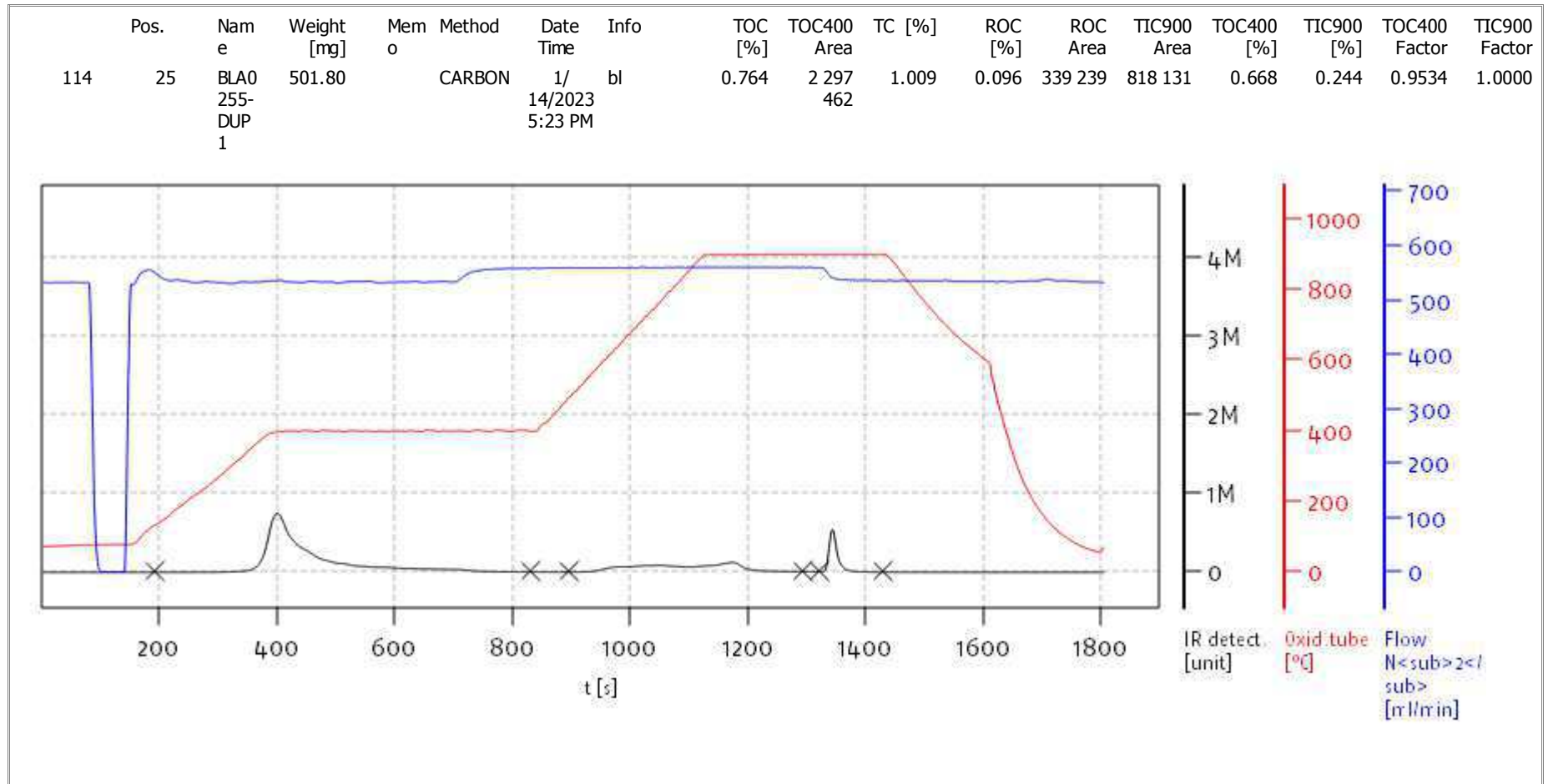
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Date: Mon Jan 16 07:14:49 2023



solITOC V2.0.2 (31015f9) 2018-11-19
 Serial No: 0300.181017
 Mode CCC

Soli TOC Cube, Carbon
 Balance: BAL3
 Analyst: DOE



Name:

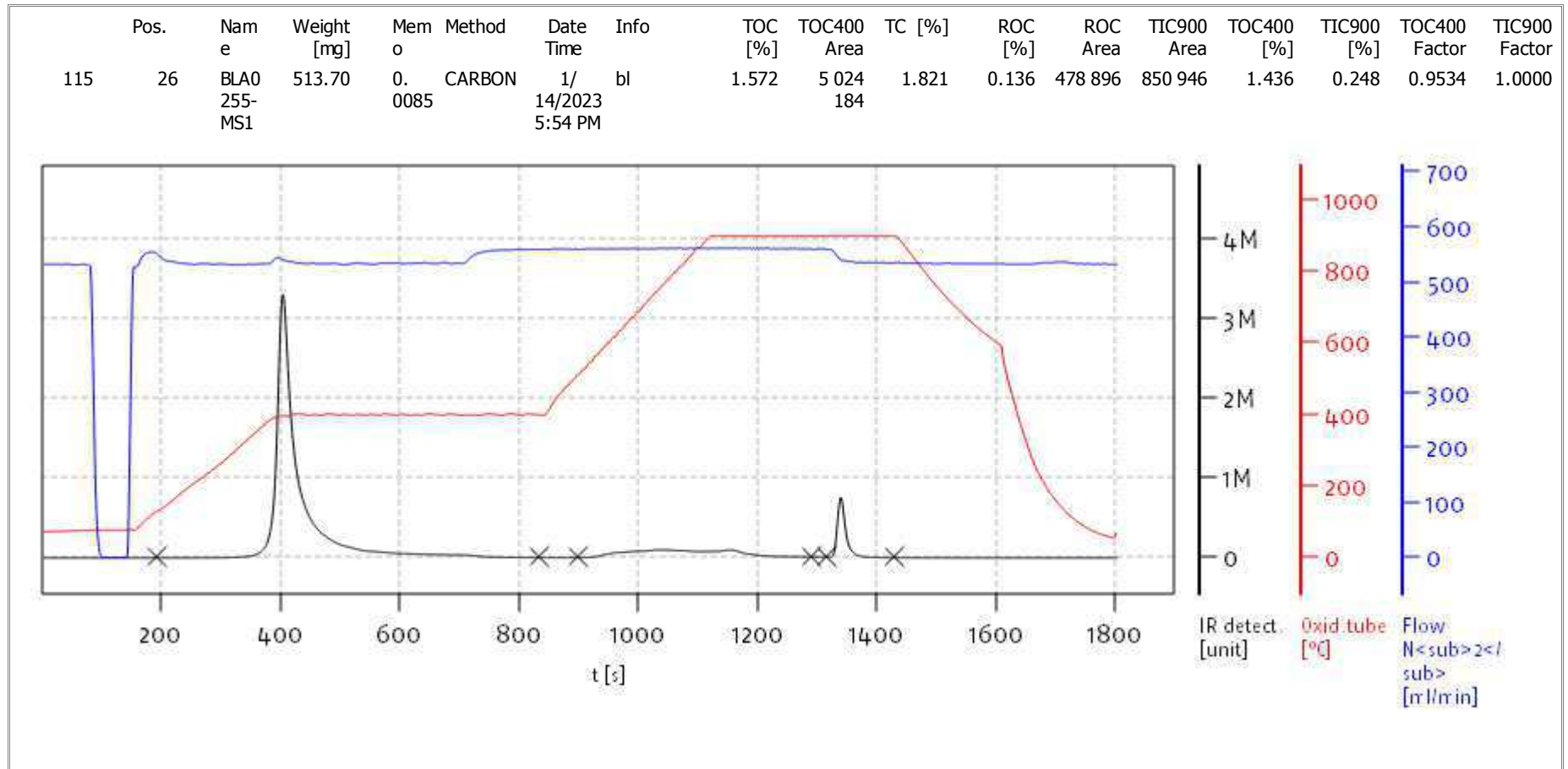
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 Mode CCC

Soli TOC Cube, Carbon
 Balance: BAL3
 Analyst: DOE



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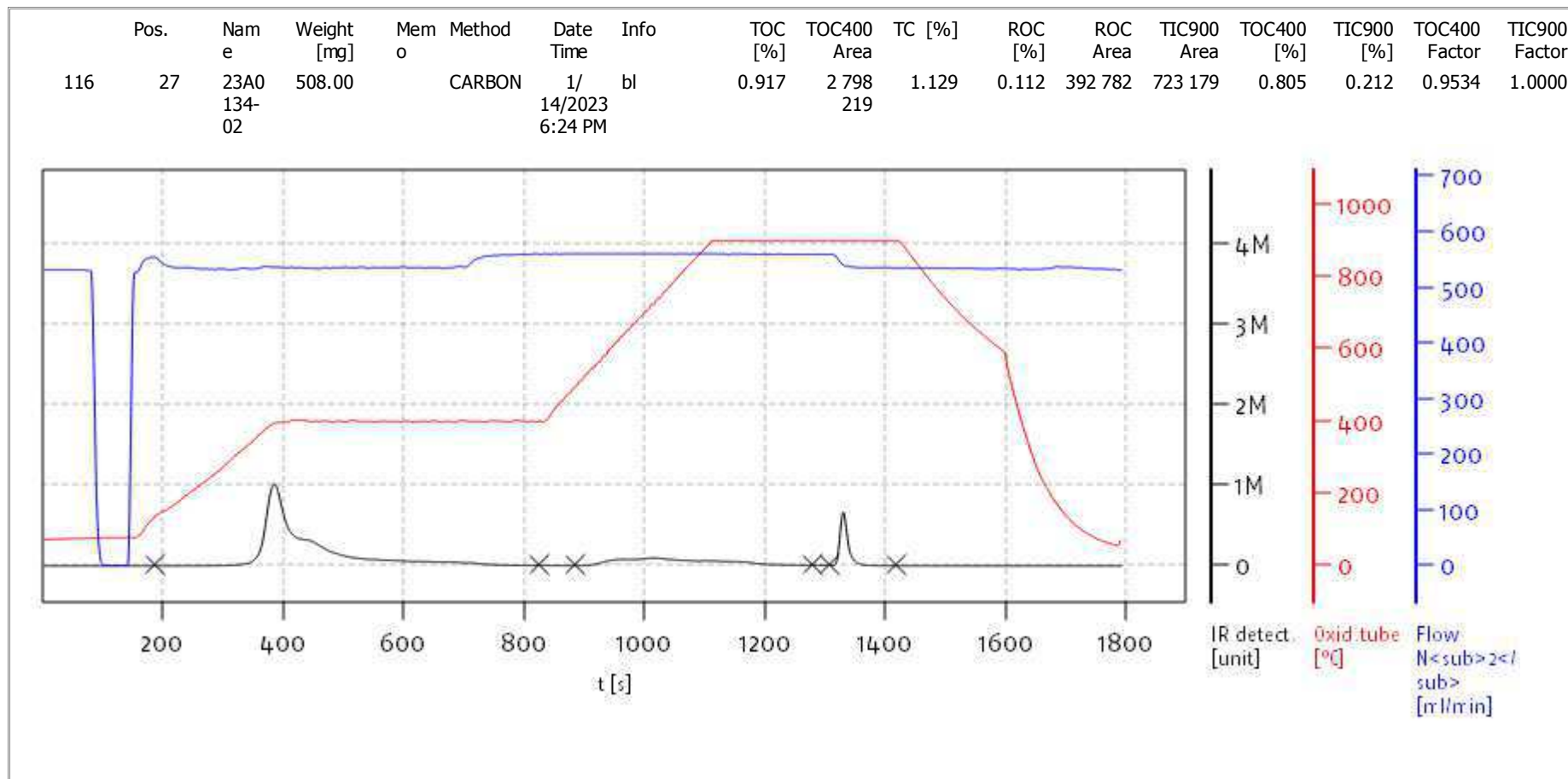
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 Mode CCC

Soli TOC Cube, Carbon
 Balance: BAL3
 Analyst: DOE



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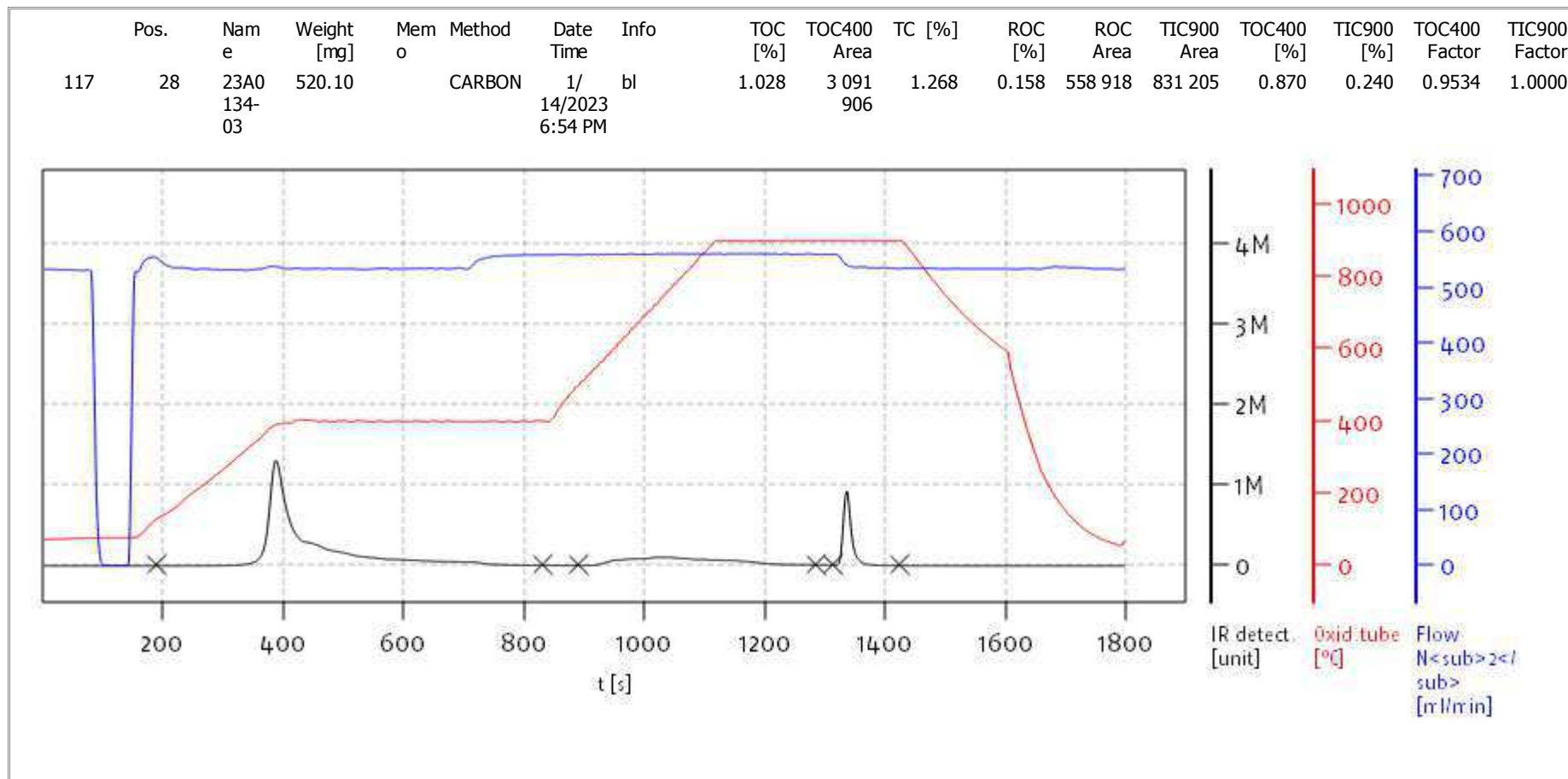
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 Mode CCC

Soli TOC Cube, Carbon
 Balance: BAL3
 Analyst: DOE



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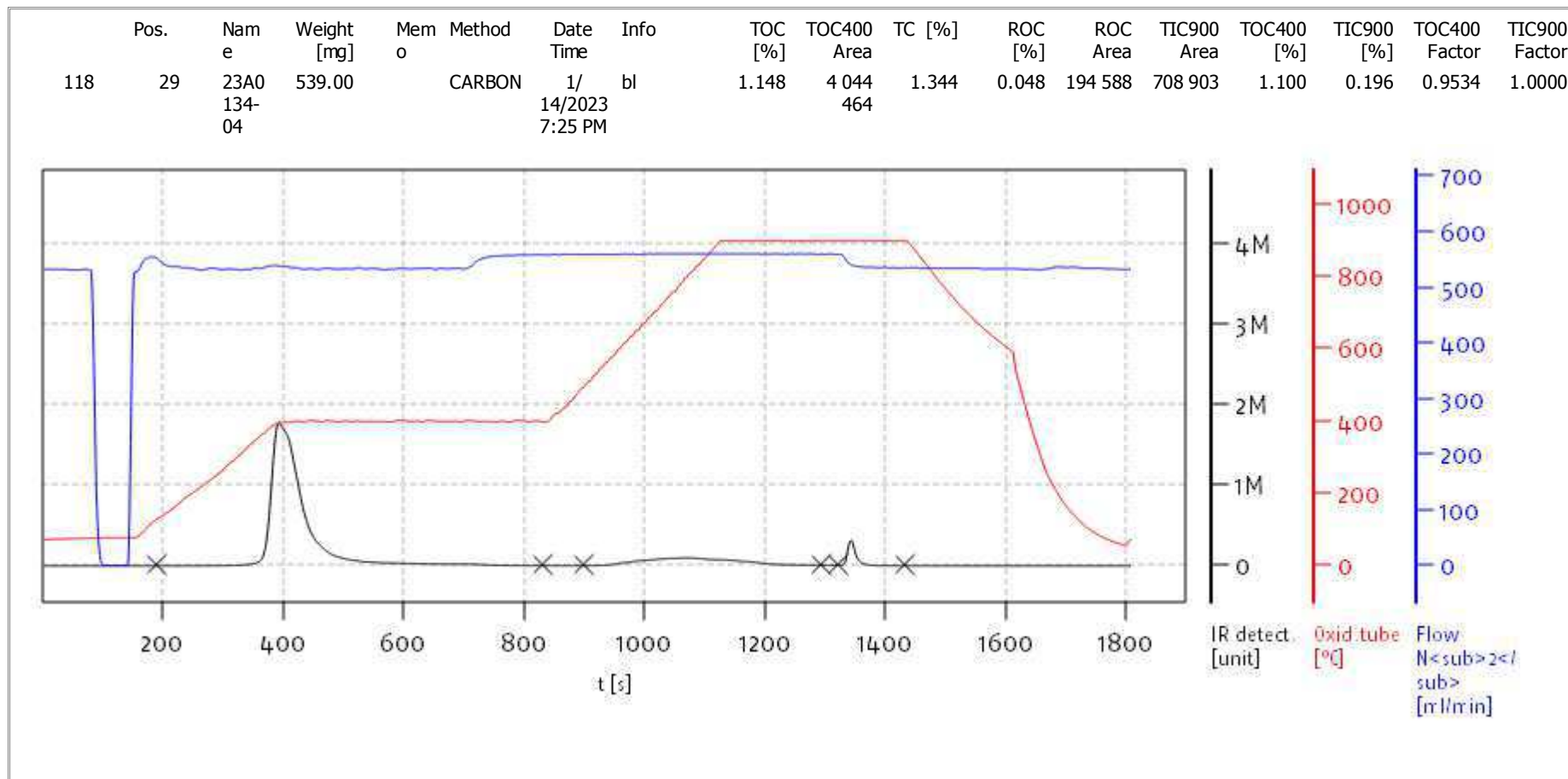
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 Mode CCC

Soli TOC Cube, Carbon
 Balance: BAL3
 Analyst: DOE



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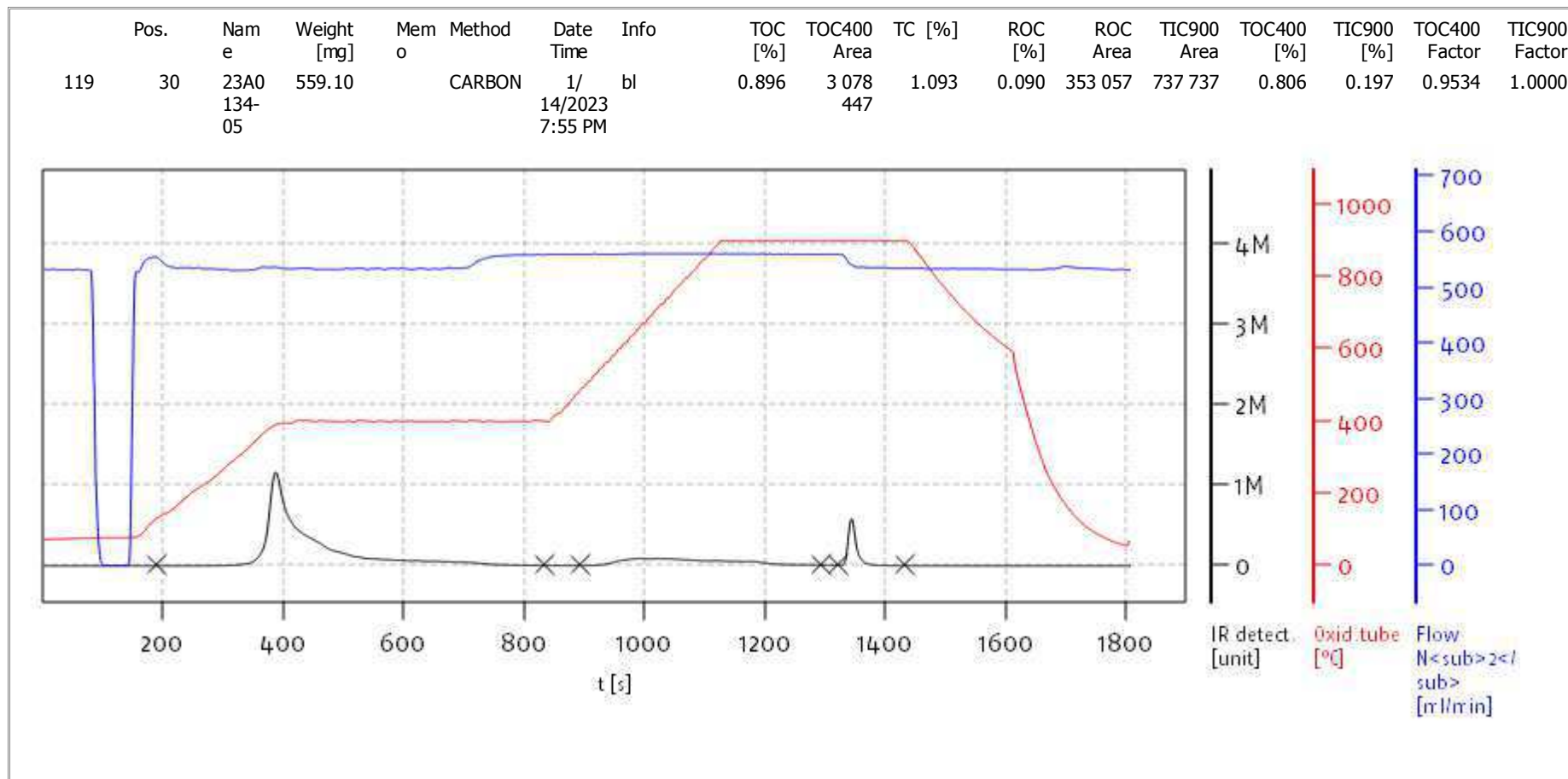
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 Mode CCC

Soli TOC Cube, Carbon
 Balance: BAL3
 Analyst: DOE



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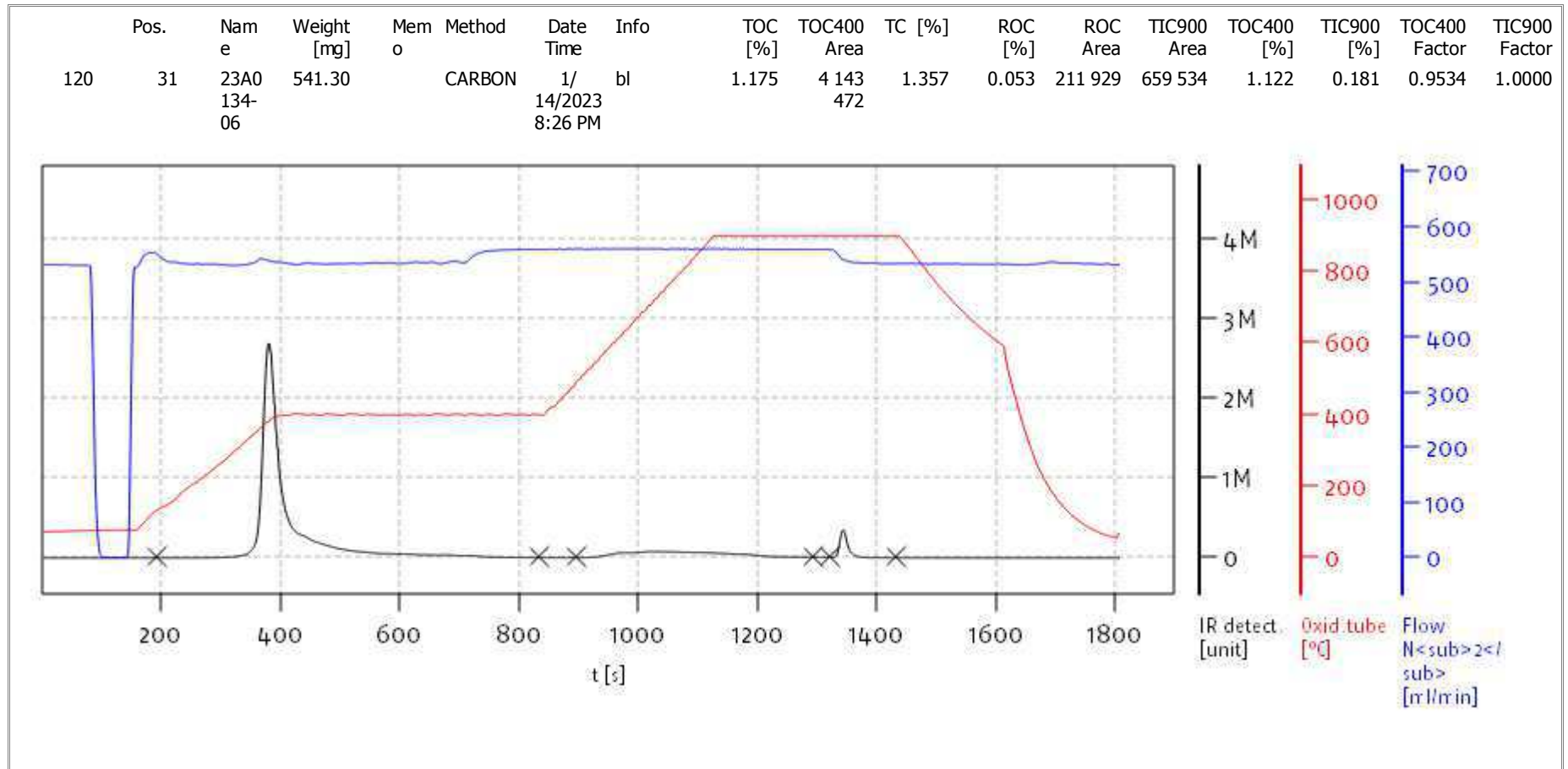
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Soli TOC Cube, Carbon
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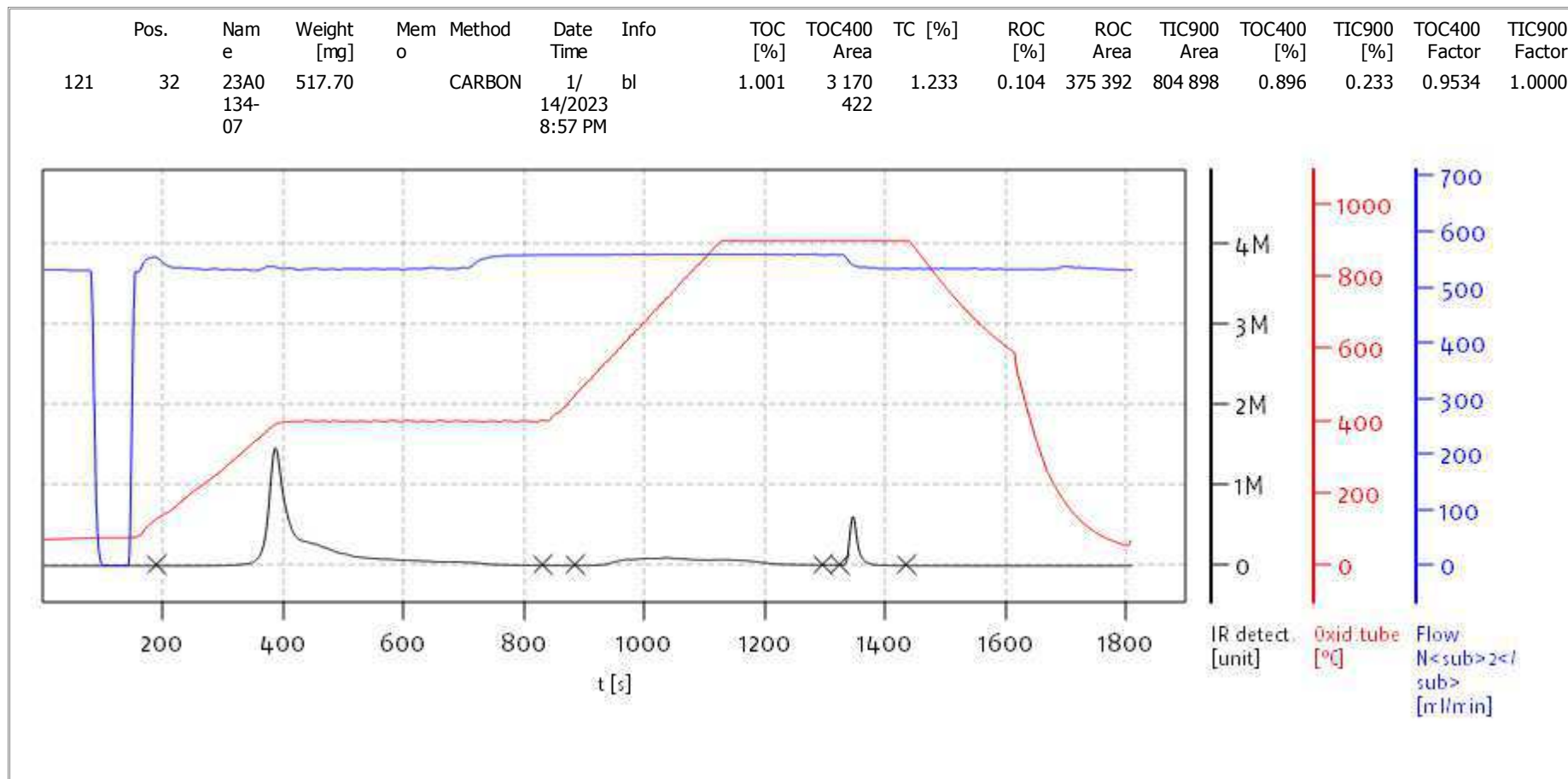
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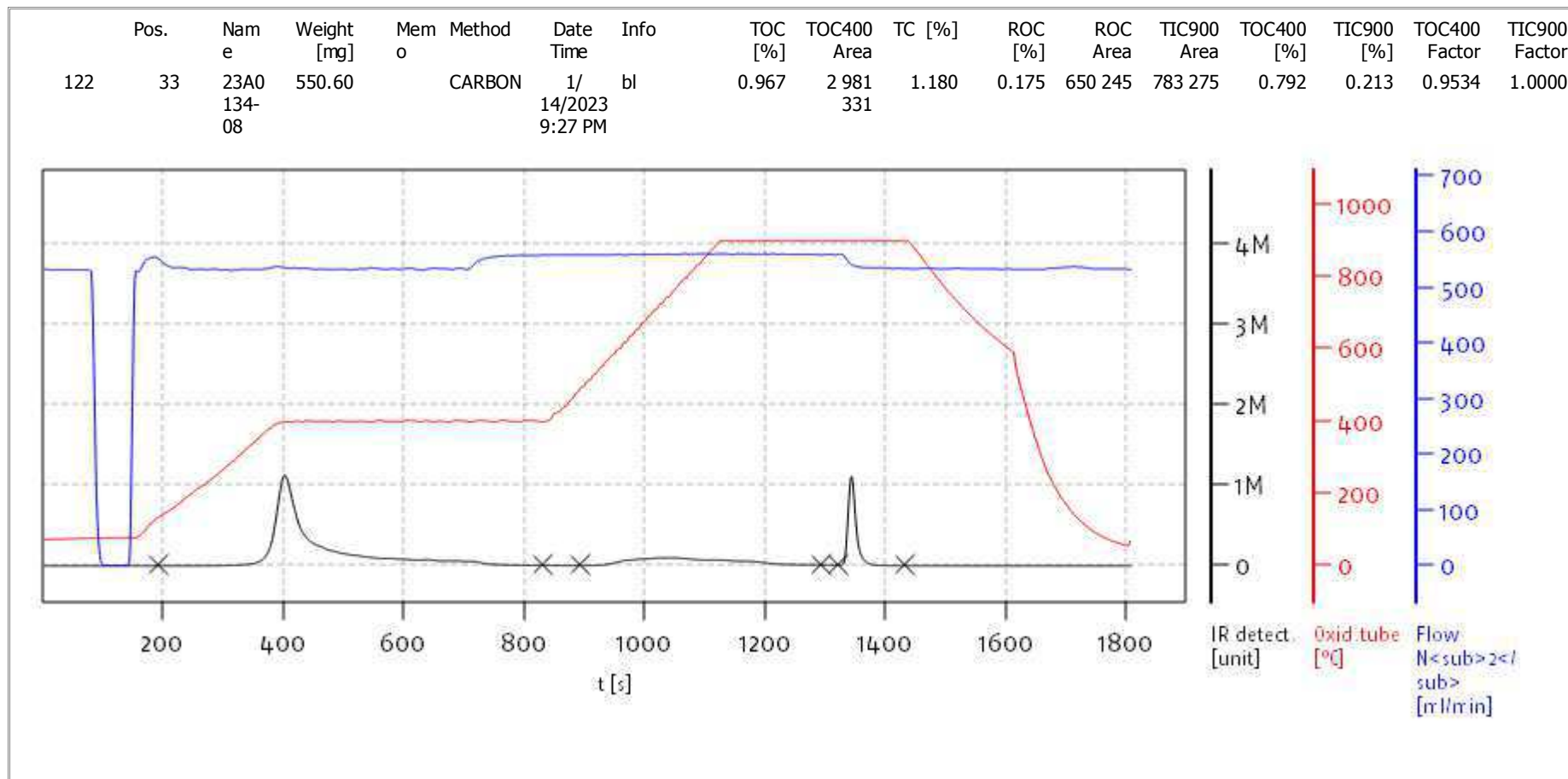
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 Serial No: 0300.181017
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Soli TOC Cube, Carbon
 Balance: BAL3
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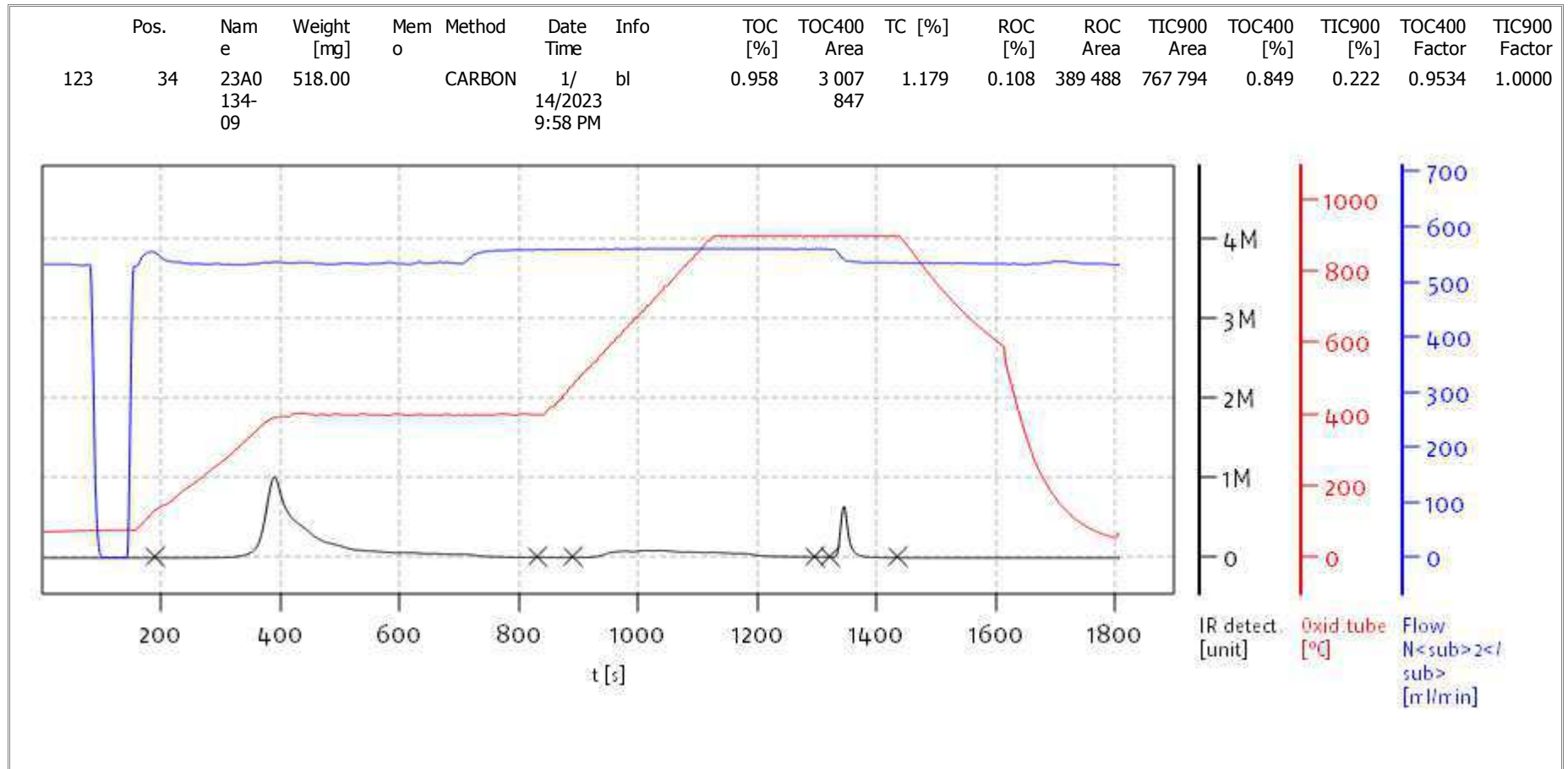
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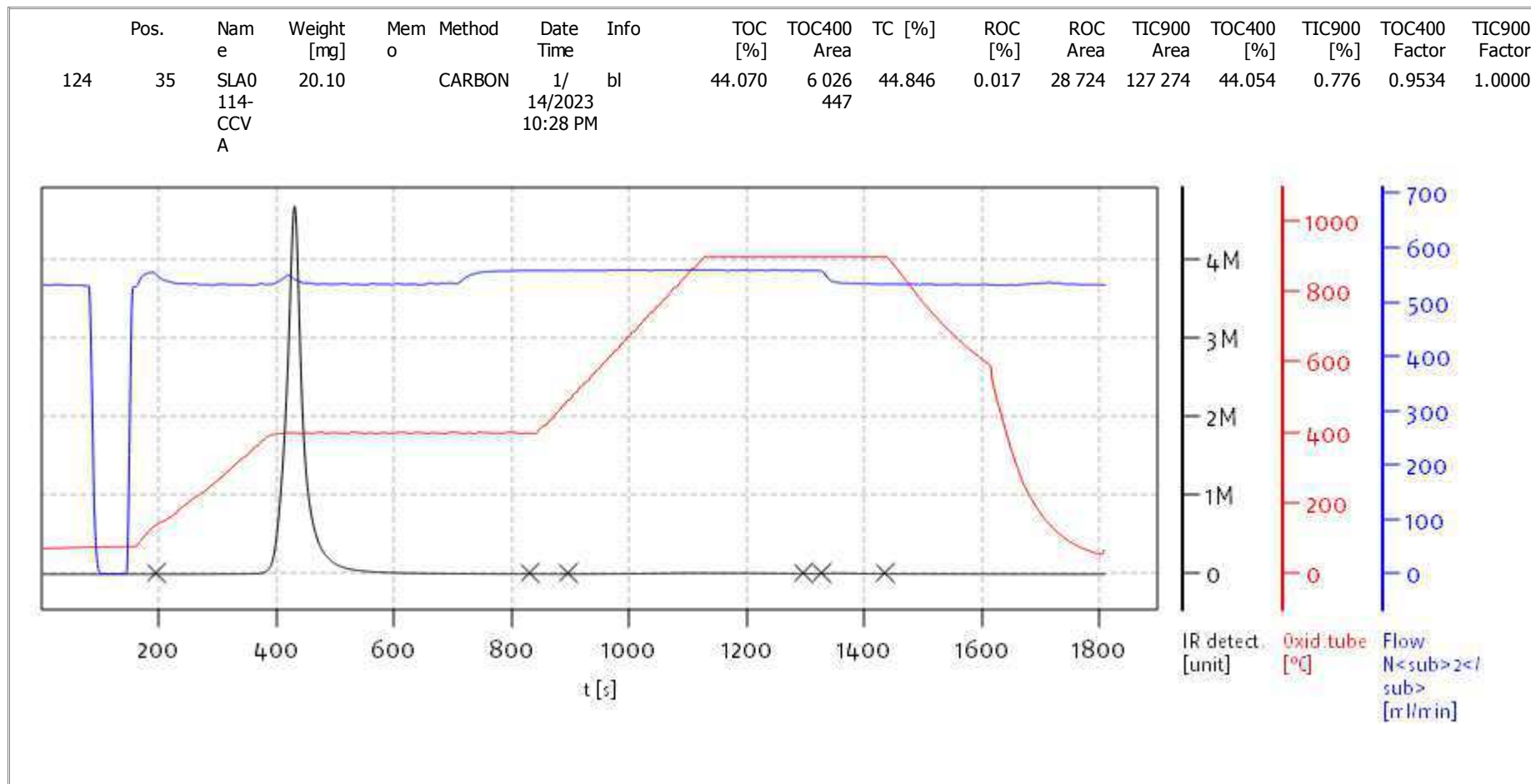
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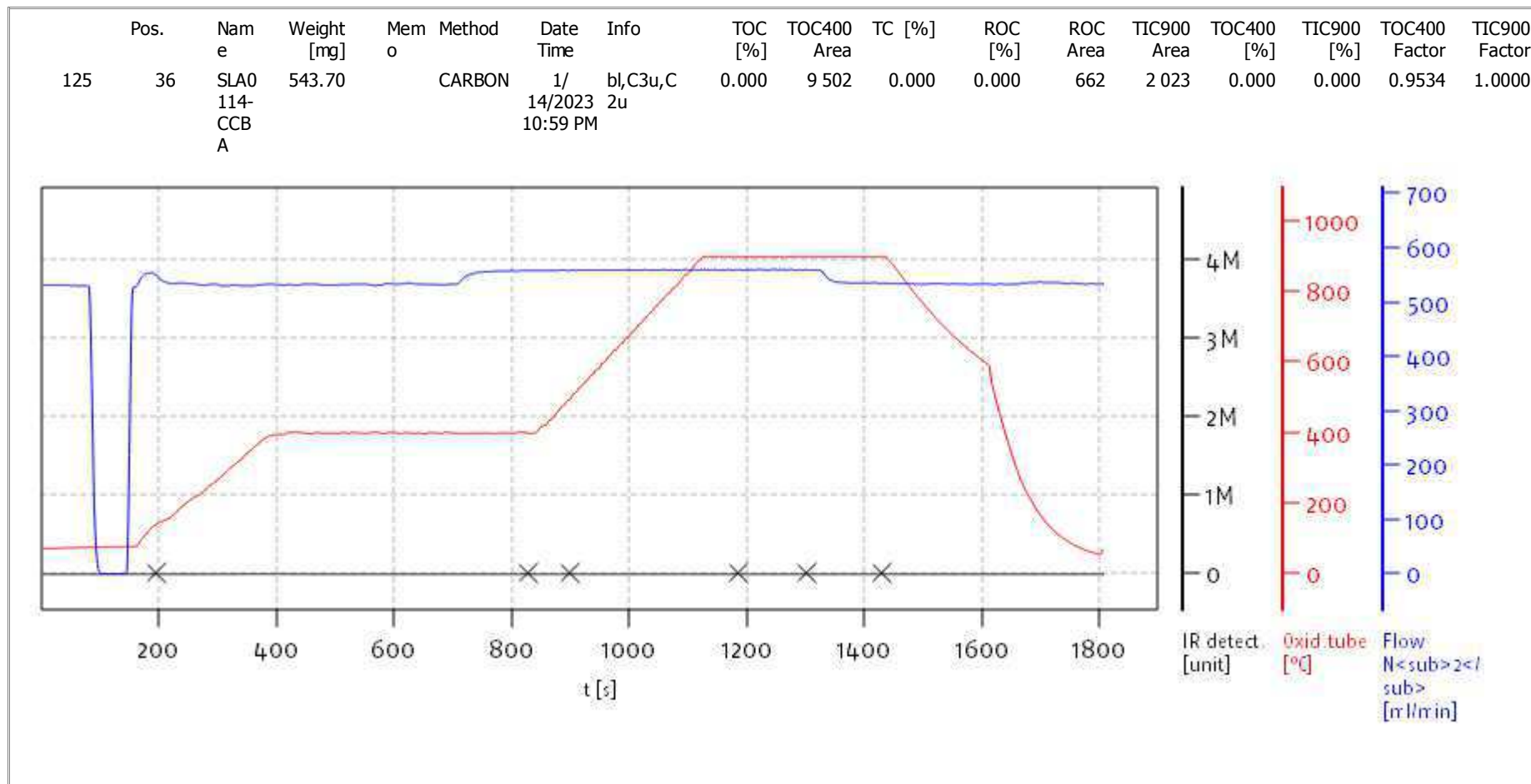
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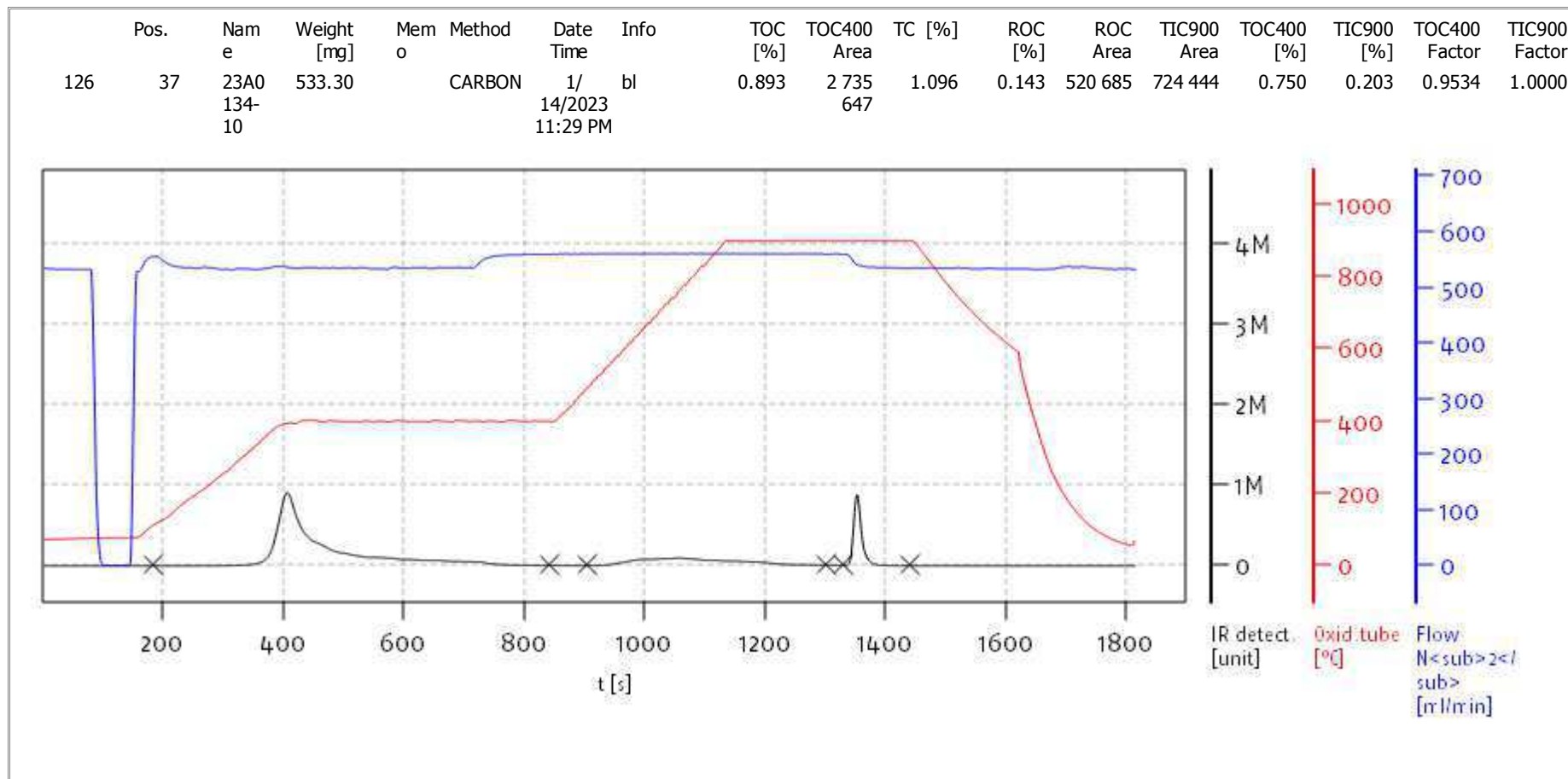
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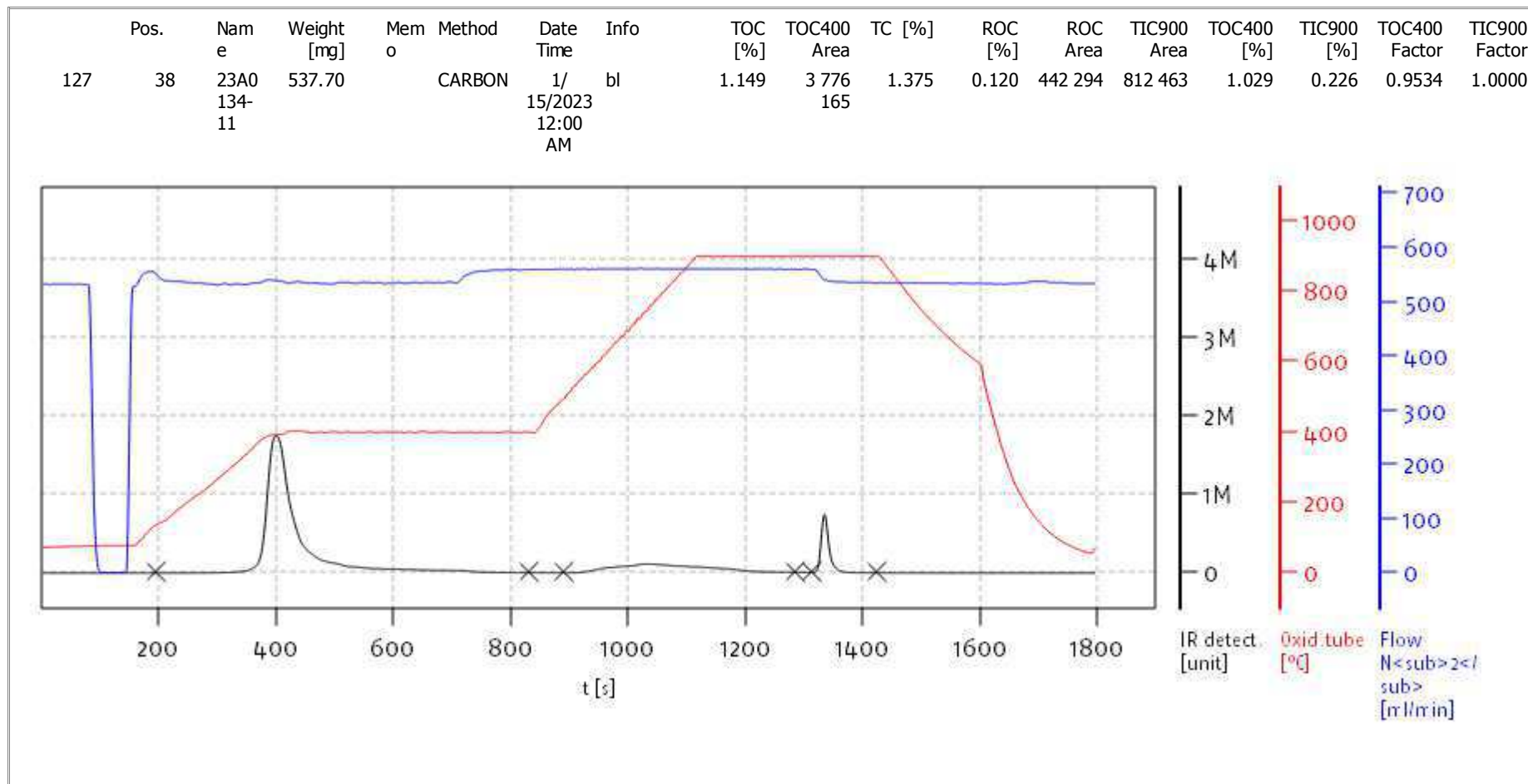
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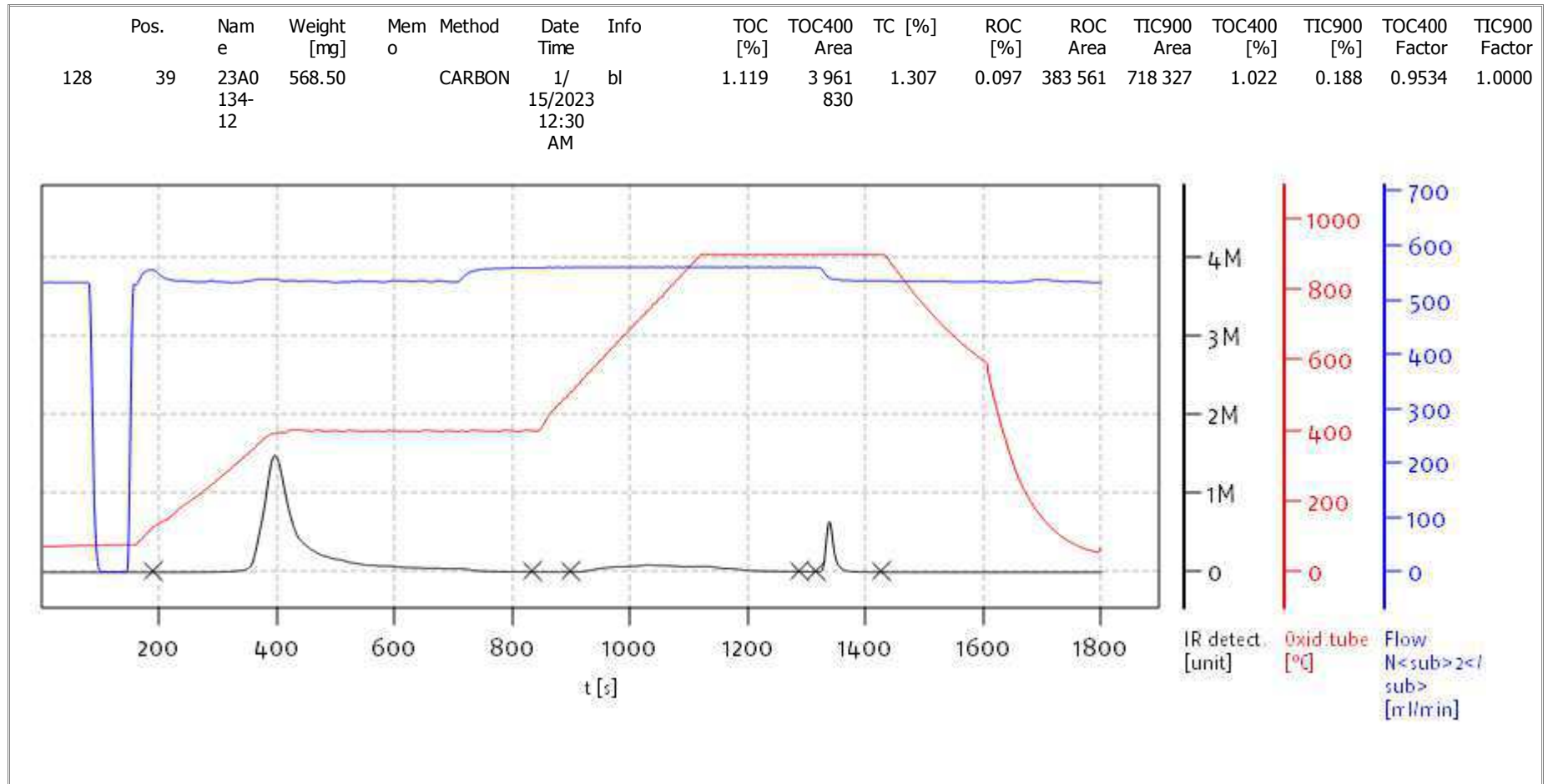
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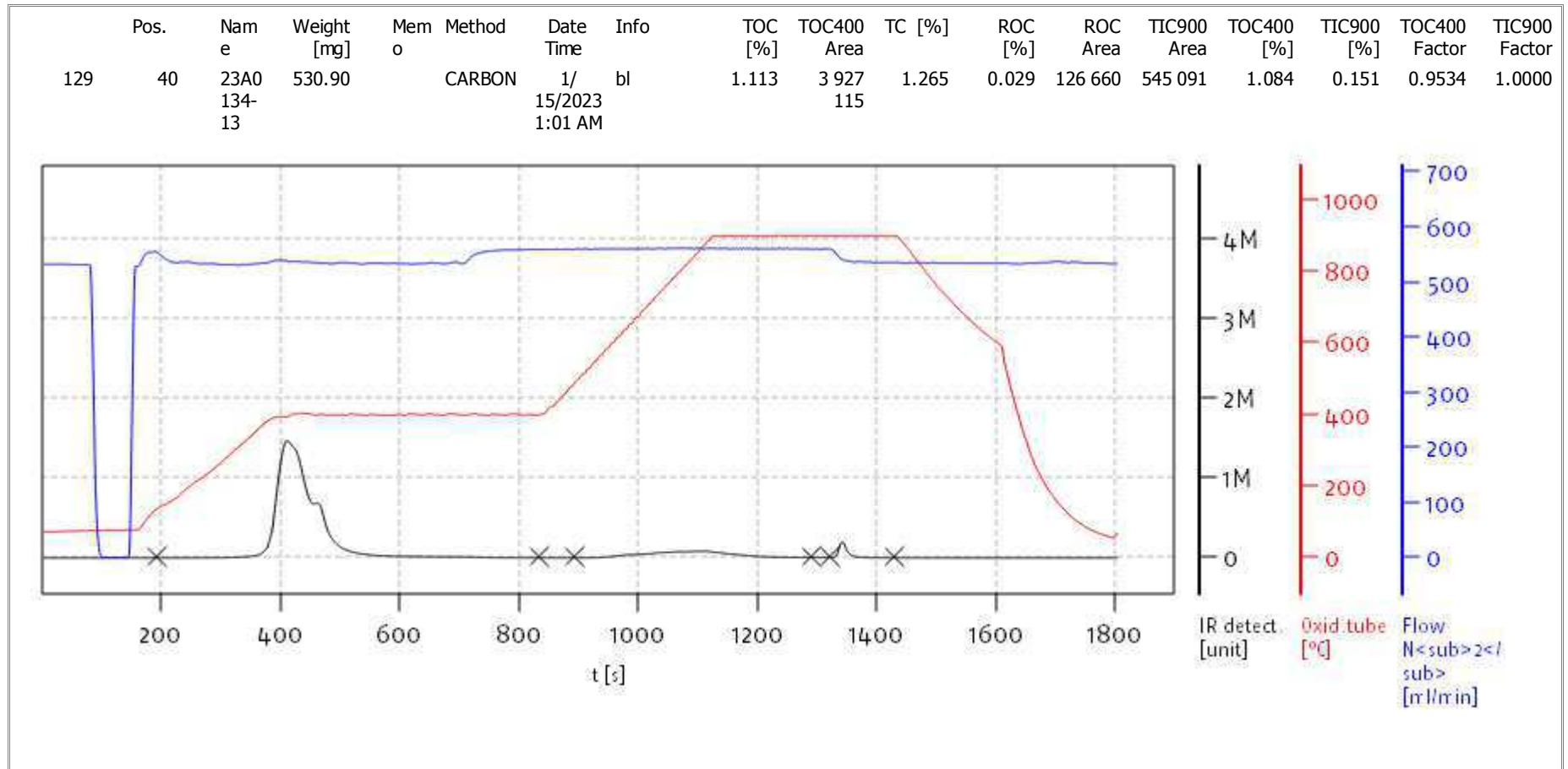
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 Balance: BAL3
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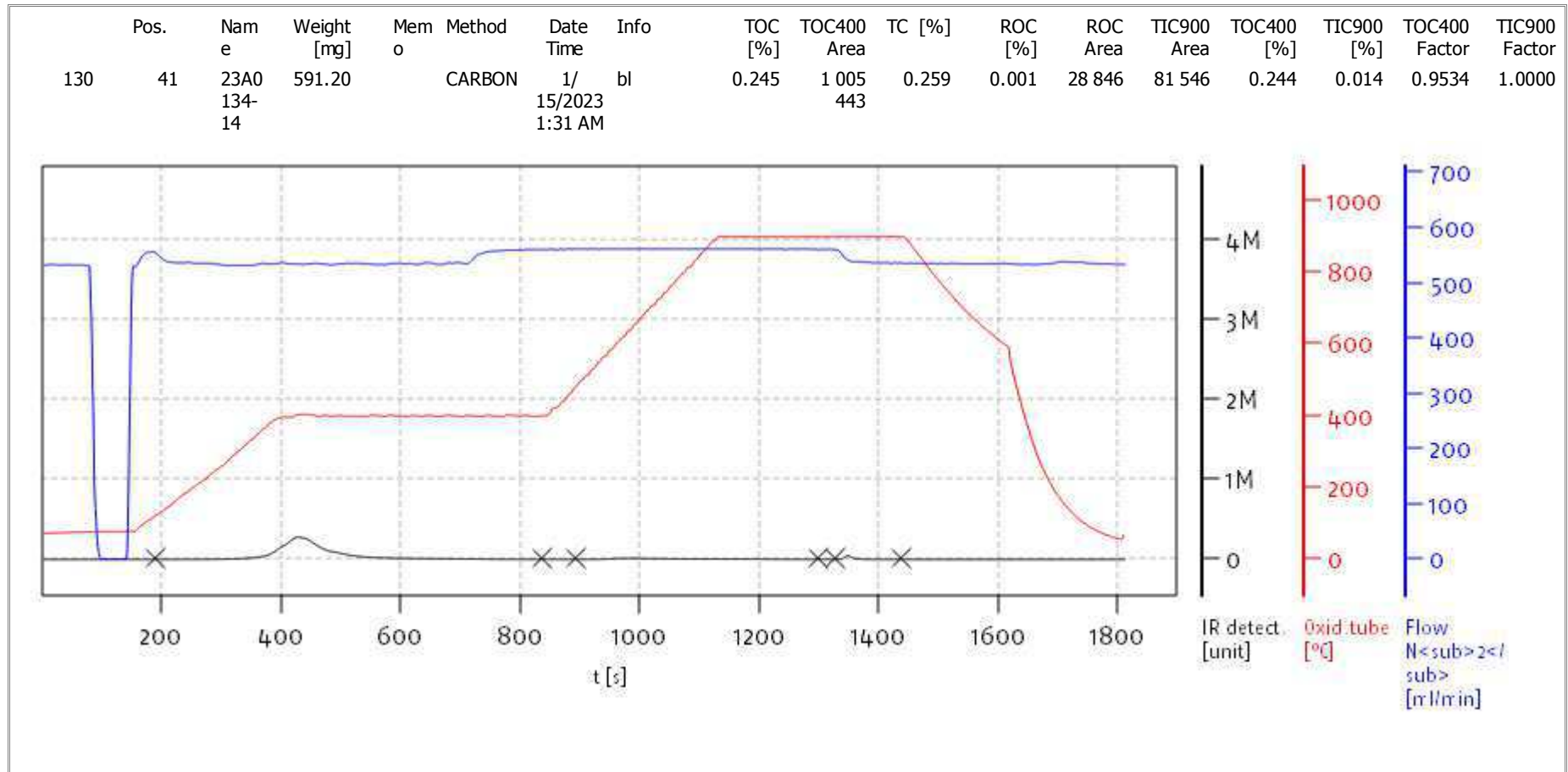
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Balance: BAL3
Analyst: DOE



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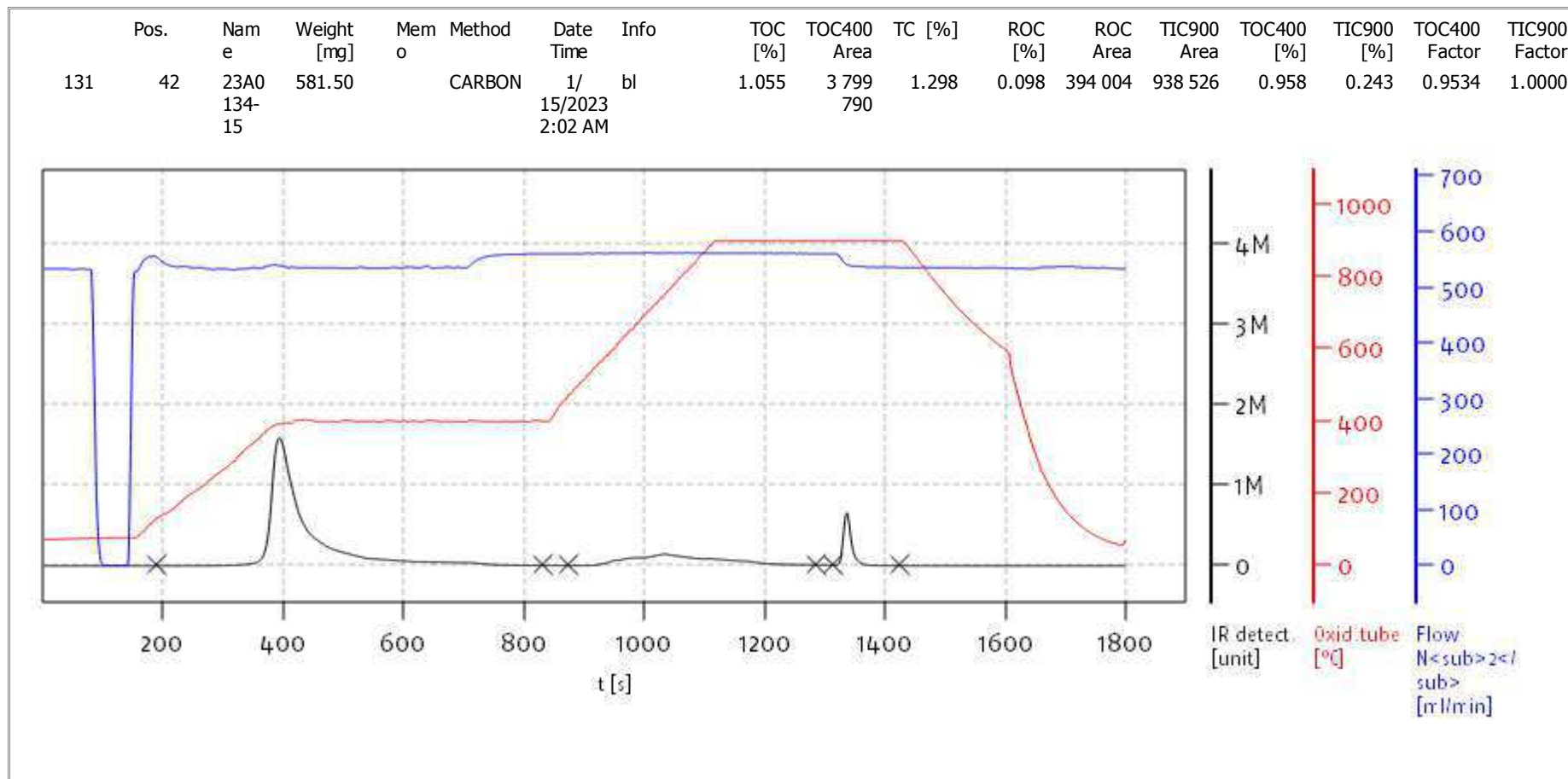
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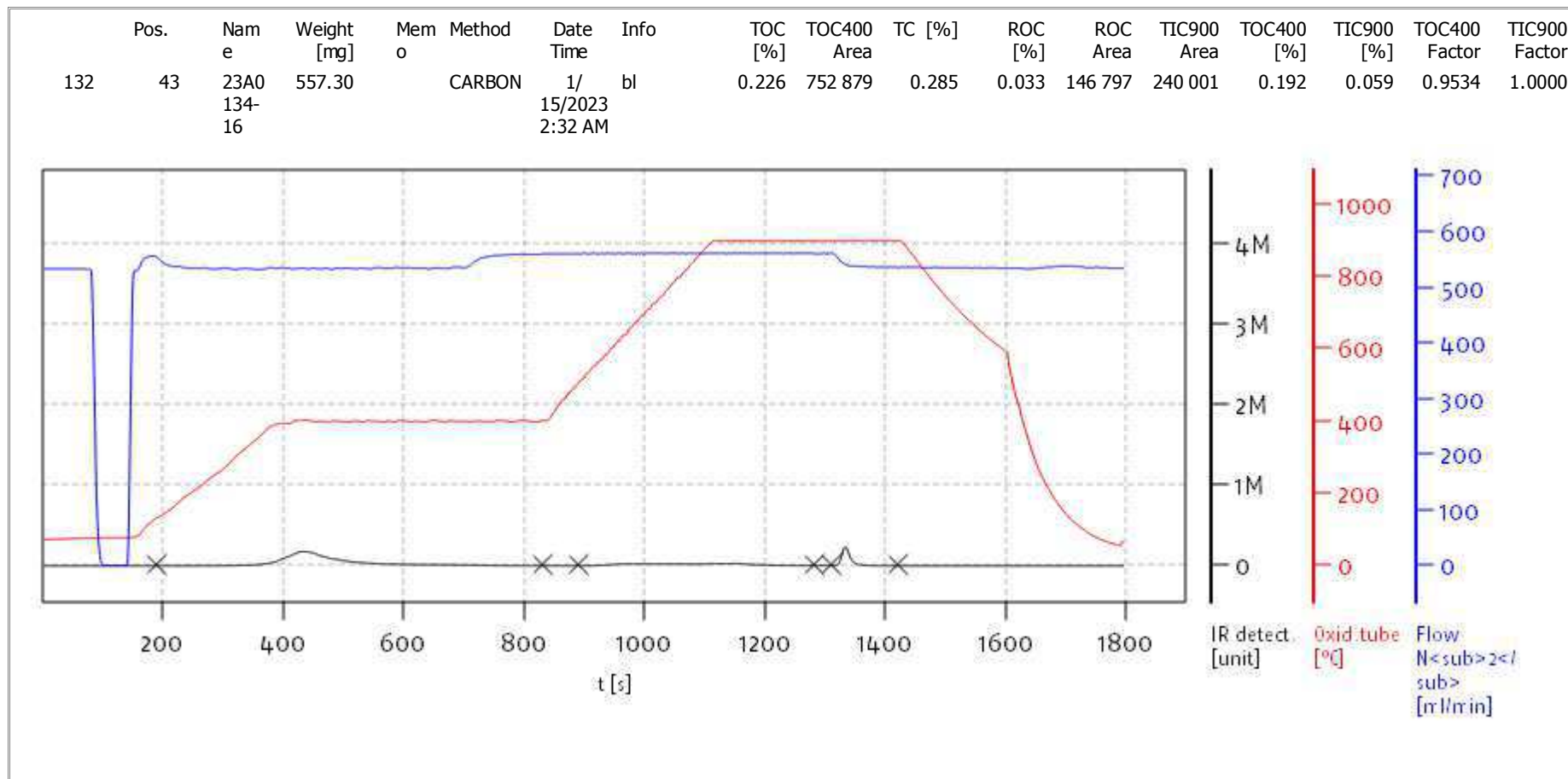
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Soli TOC Cube, Carbon
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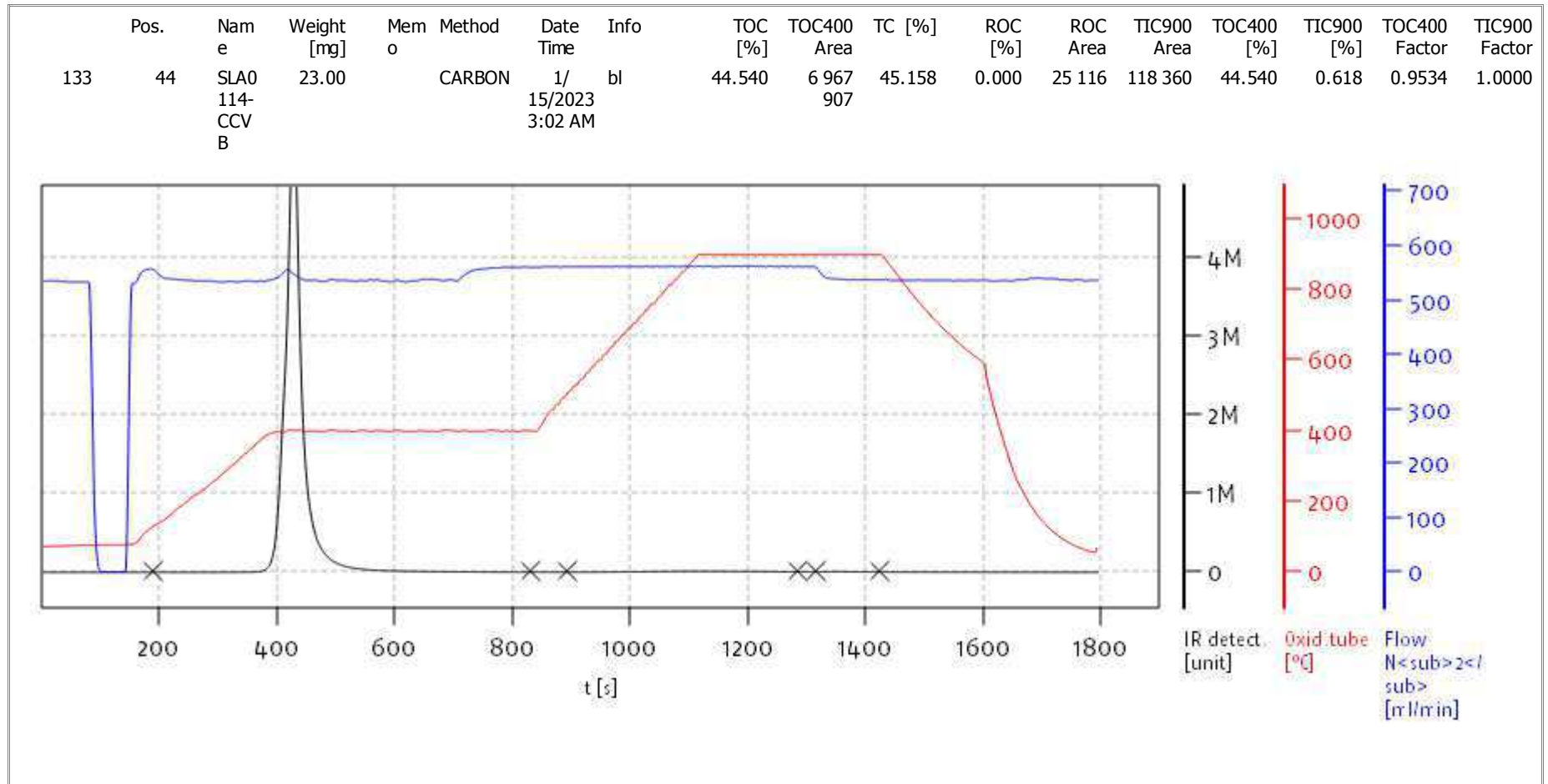
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Soli TOC Cube, Carbon
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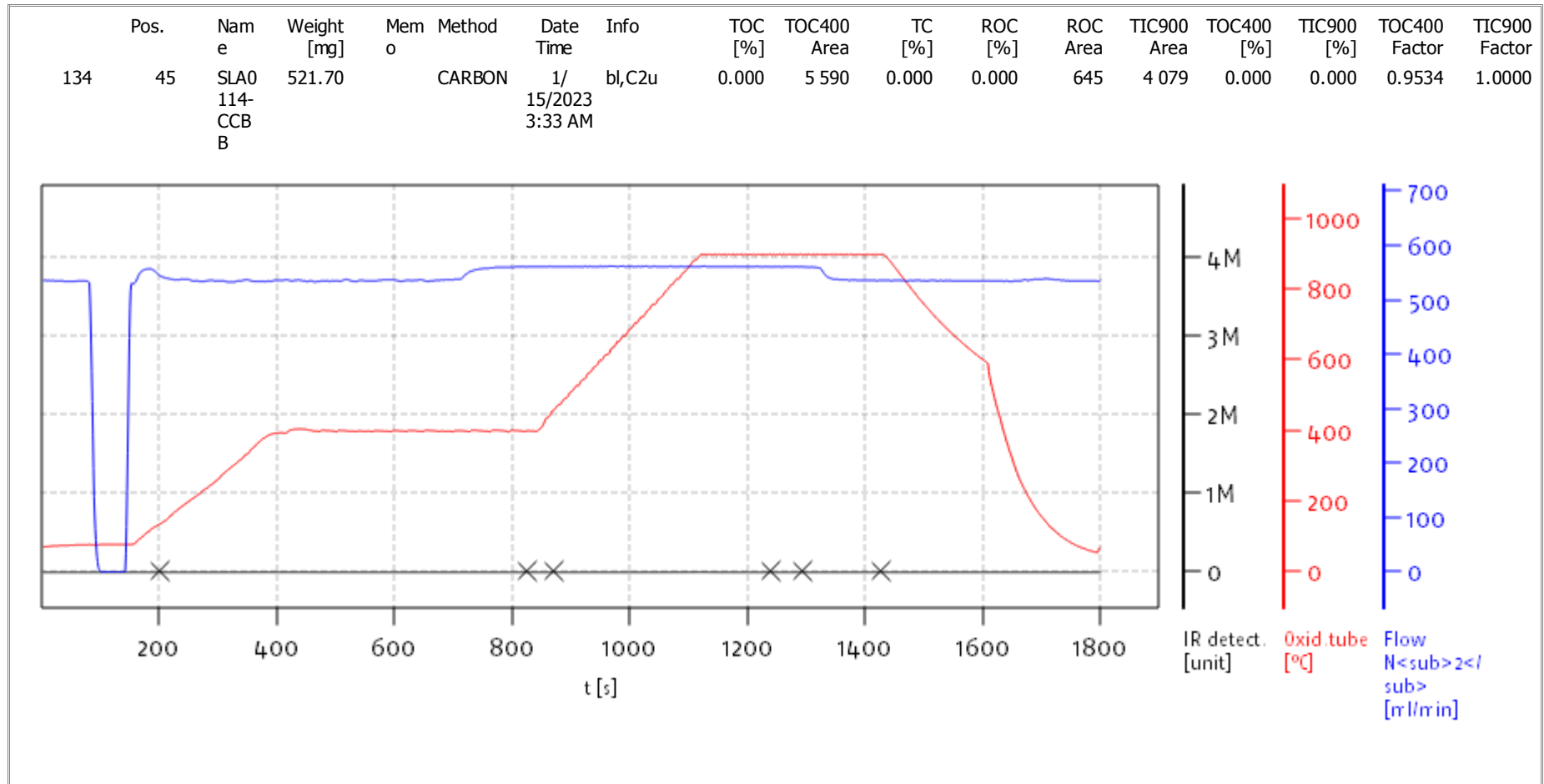
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Soli TOC Cube, Carbon
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Date: Mon Jan 16 07:14:49 2023



solITOC V2.0.2 (31015f9) 2018-11-19
 Serial No: 0300.181017
 Mode CCC



INITIAL CALIBRATION DATA

EPA 9060A m

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Calibration: FD00070

Instrument: TOC Cube

Calibration Date: 04/26/2022 11:29

| Compound | Level 01 | | Level 02 | | Level 03 | | Level 04 | | Level 05 | | Level 06 | |
|------------------------|-----------|---------|----------|---------|----------|---------|----------|---------|----------|---------|----------|---------|
| | Conc | RF | Conc | RF | Conc | RF | Conc | RF | Conc | RF | Conc | RF |
| Total Organic Carbon | 0.0080973 | 1449743 | 0.014695 | 1300238 | 0.021293 | 1292913 | 0.02939 | 1293535 | 0.044385 | 2094063 | 0.05878 | 1400085 |
| Total Carbon | 0.0080973 | 1449743 | 0.014695 | 1300238 | 0.021293 | 1292913 | 0.02939 | 1293535 | 0.044385 | 2094063 | 0.05878 | 1400085 |
| Total Inorganic Carbon | 0.0080973 | 1449743 | 0.014695 | 1300238 | 0.021293 | 1292913 | 0.02939 | 1293535 | 0.044385 | 2094063 | 0.05878 | 1400085 |
| % Soot | 0.0080973 | 1449743 | 0.014695 | 1300238 | 0.021293 | 1292913 | 0.02939 | 1293535 | 0.044385 | 2094063 | 0.05878 | 1400085 |



INITIAL CALIBRATION DATA

EPA 9060A m

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Calibration: FD00070

Instrument: TOC Cube

Calibration Date: 04/26/2022 11:29

| Compound | Level 07 | | Level 08 | | Level 09 | | Level 10 | | Level 11 | | Level 12 | |
|------------------------|----------|---------|----------|---------|----------|---------|----------|---------|----------|---------|----------|---------|
| | Conc | RF | Conc | RF | Conc | RF | Conc | RF | Conc | RF | Conc | RF |
| Total Organic Carbon | 0.074075 | 1370638 | 0.08937 | 1351930 | 0.12056 | 2158544 | 0.14995 | 1559046 | 0.24 | 1346463 | 0.288 | 1430135 |
| Total Carbon | 0.074075 | 1370638 | 0.08937 | 1351930 | 0.12056 | 2158544 | 0.14995 | 1559046 | 0.24 | 1346463 | 0.288 | 1430135 |
| Total Inorganic Carbon | 0.074075 | 1370638 | 0.08937 | 1351930 | 0.12056 | 2158544 | 0.14995 | 1559046 | 0.24 | 1346463 | 0.288 | 1430135 |
| % Soot | 0.074075 | 1370638 | 0.08937 | 1351930 | 0.12056 | 2158544 | 0.14995 | 1559046 | 0.24 | 1346463 | 0.288 | 1430135 |



INITIAL CALIBRATION DATA

EPA 9060A m

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Calibration: FD00070

Instrument: TOC Cube

Calibration Date: 04/26/2022 11:29

| Compound | Level 13 | | Level 14 | | Level 15 | | Level 16 | | Level 17 | | Level 18 | |
|------------------------|----------|---------|----------|---------|----------|---------|----------|---------|----------|---------|----------|---------|
| | Conc | RF | Conc | RF | Conc | RF | Conc | RF | Conc | RF | Conc | RF |
| Total Organic Carbon | 0.414 | 1337053 | 0.606 | 1385937 | 0.894 | 1382774 | 1.188 | 1379790 | 1.5 | 1375927 | 1.818 | 1372882 |
| Total Carbon | 0.414 | 1337053 | 0.606 | 1385937 | 0.894 | 1382774 | 1.188 | 1379790 | 1.5 | 1375927 | 1.818 | 1372882 |
| Total Inorganic Carbon | 0.414 | 1337053 | 0.606 | 1385937 | 0.894 | 1382774 | 1.188 | 1379790 | 1.5 | 1375927 | 1.818 | 1372882 |
| % Soot | 0.414 | 1337053 | 0.606 | 1385937 | 0.894 | 1382774 | 1.188 | 1379790 | 1.5 | 1375927 | 1.818 | 1372882 |



INITIAL CALIBRATION DATA

EPA 9060A m

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Calibration: FD00070

Instrument: TOC Cube

Calibration Date: 04/26/2022 11:29

| Compound | Level 19 | | Level 20 | | Level 21 | | Level 22 | | Level 23 | | Level 24 | |
|------------------------|----------|---------|----------|---------|----------|---------|----------|---------|----------|---------|----------|---------|
| | Conc | RF | Conc | RF | Conc | RF | Conc | RF | Conc | RF | Conc | RF |
| Total Organic Carbon | 2.49 | 1398606 | 2.982 | 1376871 | 4.188 | 1256057 | 4.818 | 1279542 | 5.406 | 1283358 | 7.2 | 1301408 |
| Total Carbon | 2.49 | 1398606 | 2.982 | 1376871 | 4.188 | 1256057 | 4.818 | 1279542 | 5.406 | 1283358 | 7.2 | 1301408 |
| Total Inorganic Carbon | 2.49 | 1398606 | 2.982 | 1376871 | 4.188 | 1256057 | 4.818 | 1279542 | 5.406 | 1283358 | 7.2 | 1301408 |
| % Soot | 2.49 | 1398606 | 2.982 | 1376871 | 4.188 | 1256057 | 4.818 | 1279542 | 5.406 | 1283358 | 7.2 | 1301408 |



INITIAL CALIBRATION DATA

EPA 9060A m

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Calibration: FD00070

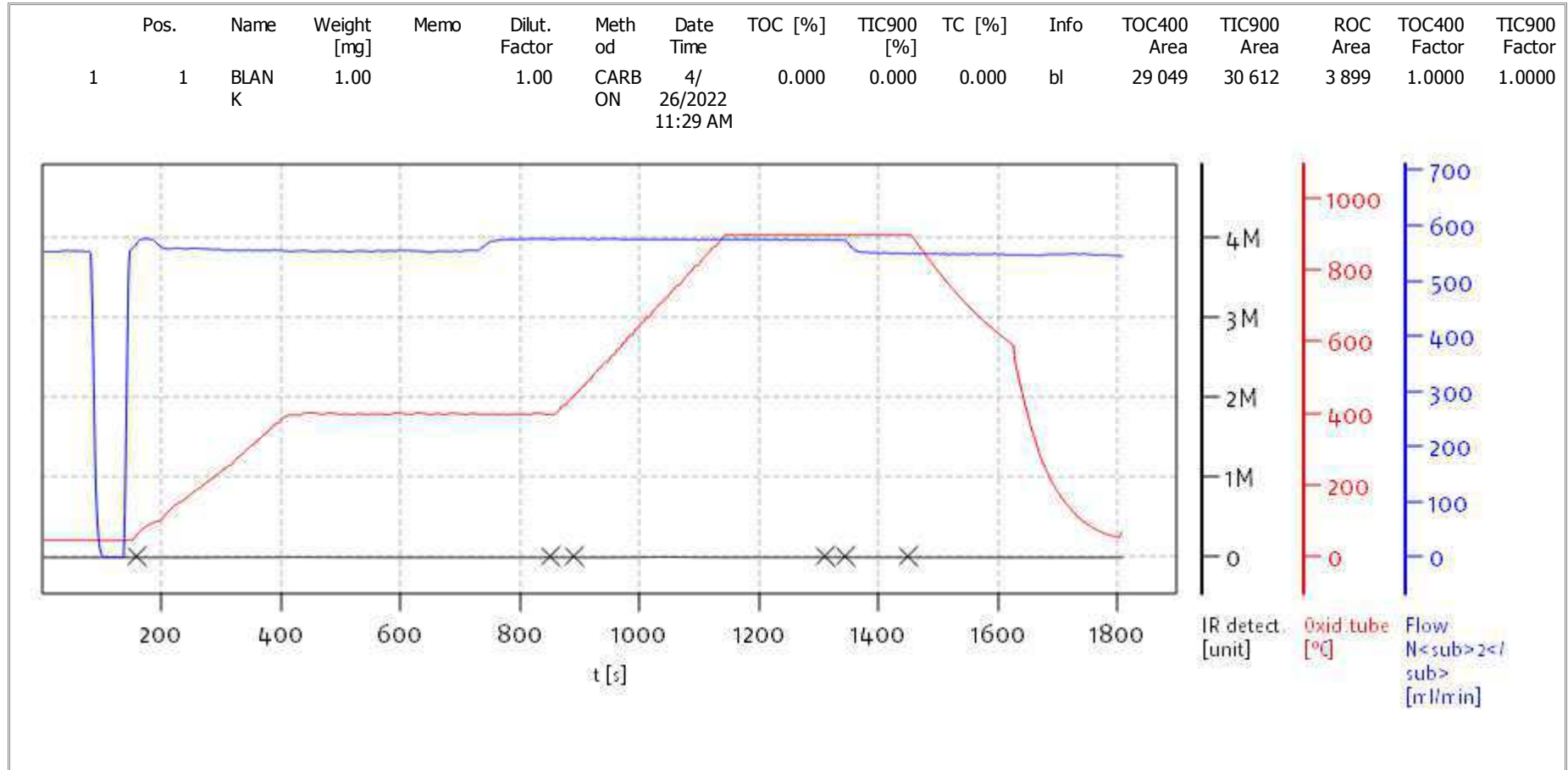
Instrument: TOC Cube

Calibration Date: 04/26/2022 11:29

| COMPOUND | Mean RF | RF RSD | Linear COD | Quad COD | COD Limit | Q |
|------------------------|---------|--------|------------|----------|-----------|---|
| Total Organic Carbon | 1424064 | 15.9 | 0.9988 | | | |
| Total Carbon | 1424064 | 15.9 | 0.9988 | | | |
| Total Inorganic Carbon | 1424064 | 15.9 | 0.9988 | | | |
| % Soot | 1424064 | 15.9 | 0.9988 | | | |



Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE



Name:

Access: solITOC superuser

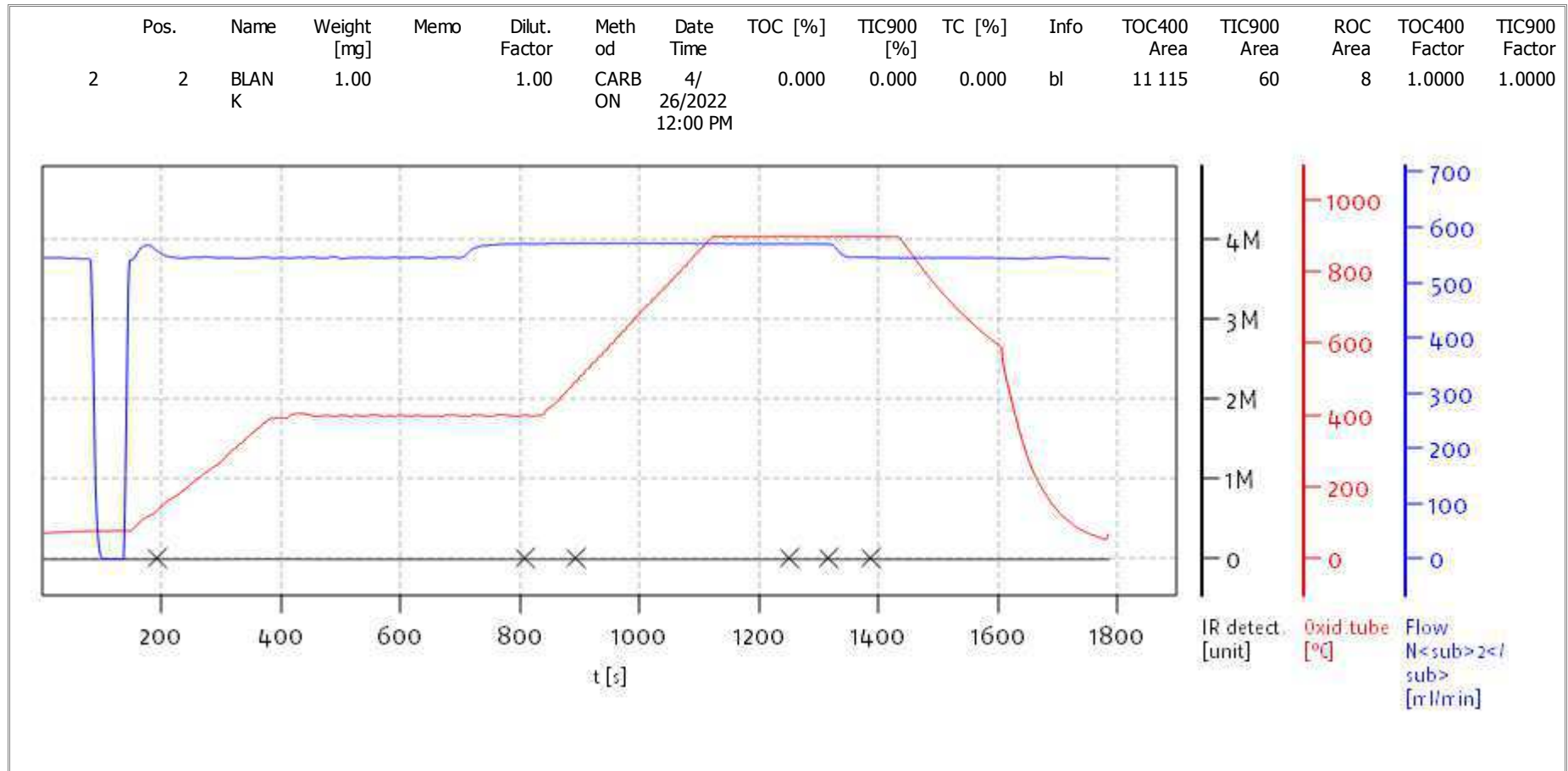
Date: Wed Apr 27 11:07:12 2022



solITOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC



Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE



Name:

Access: solITOC superuser

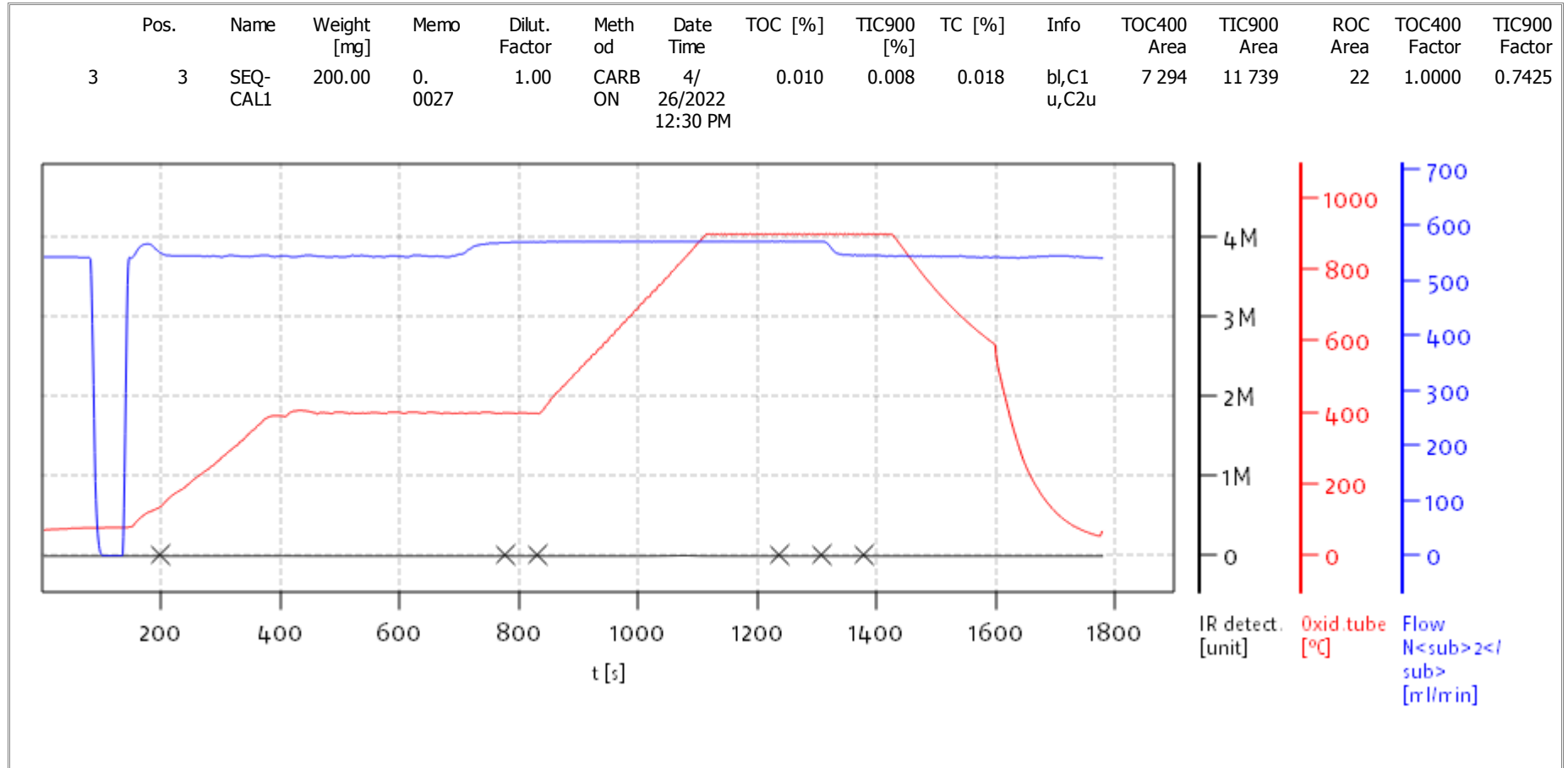
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Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE



Name:

Access: solITOC superuser

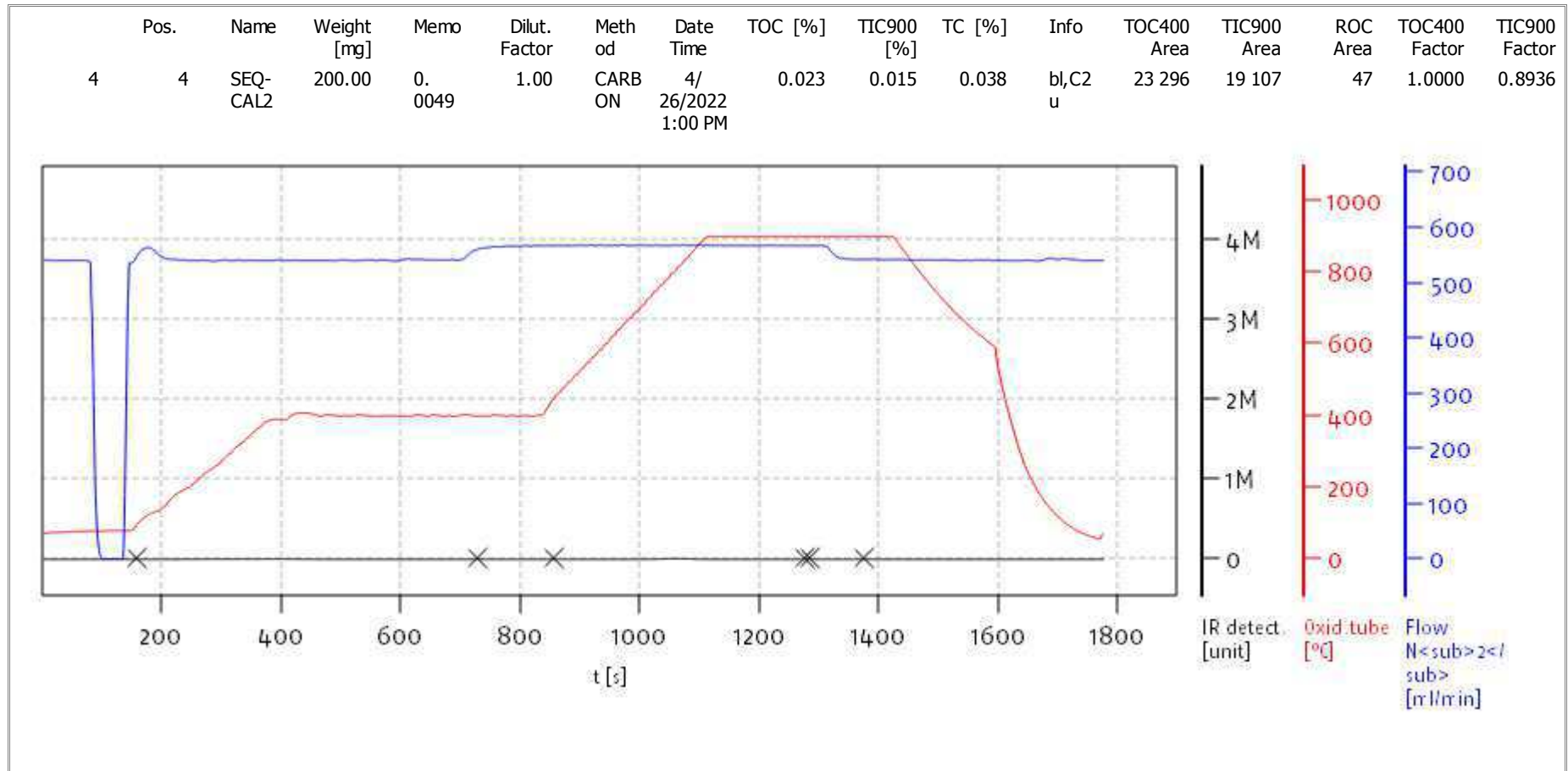
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Balance: BAL3
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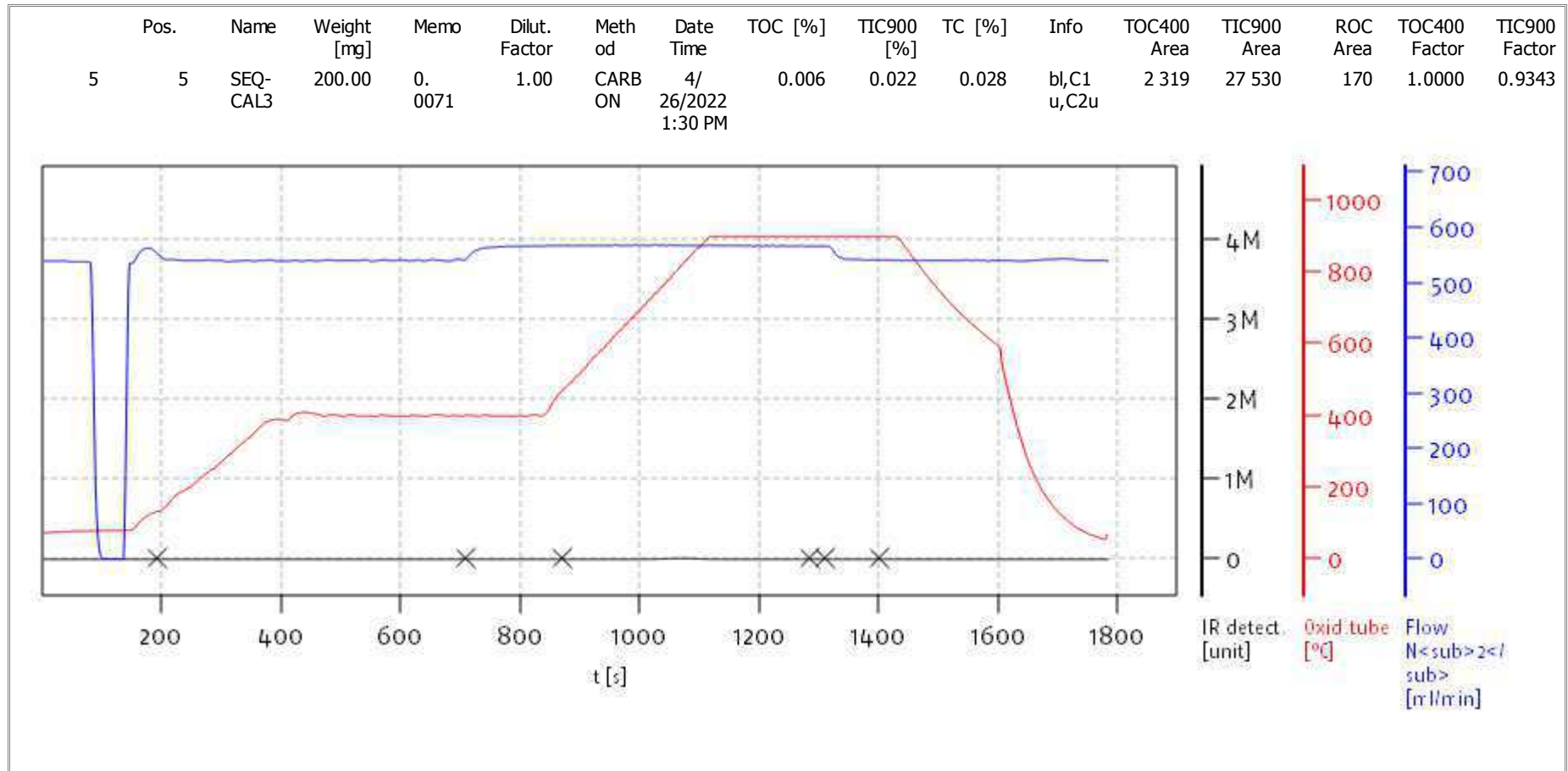
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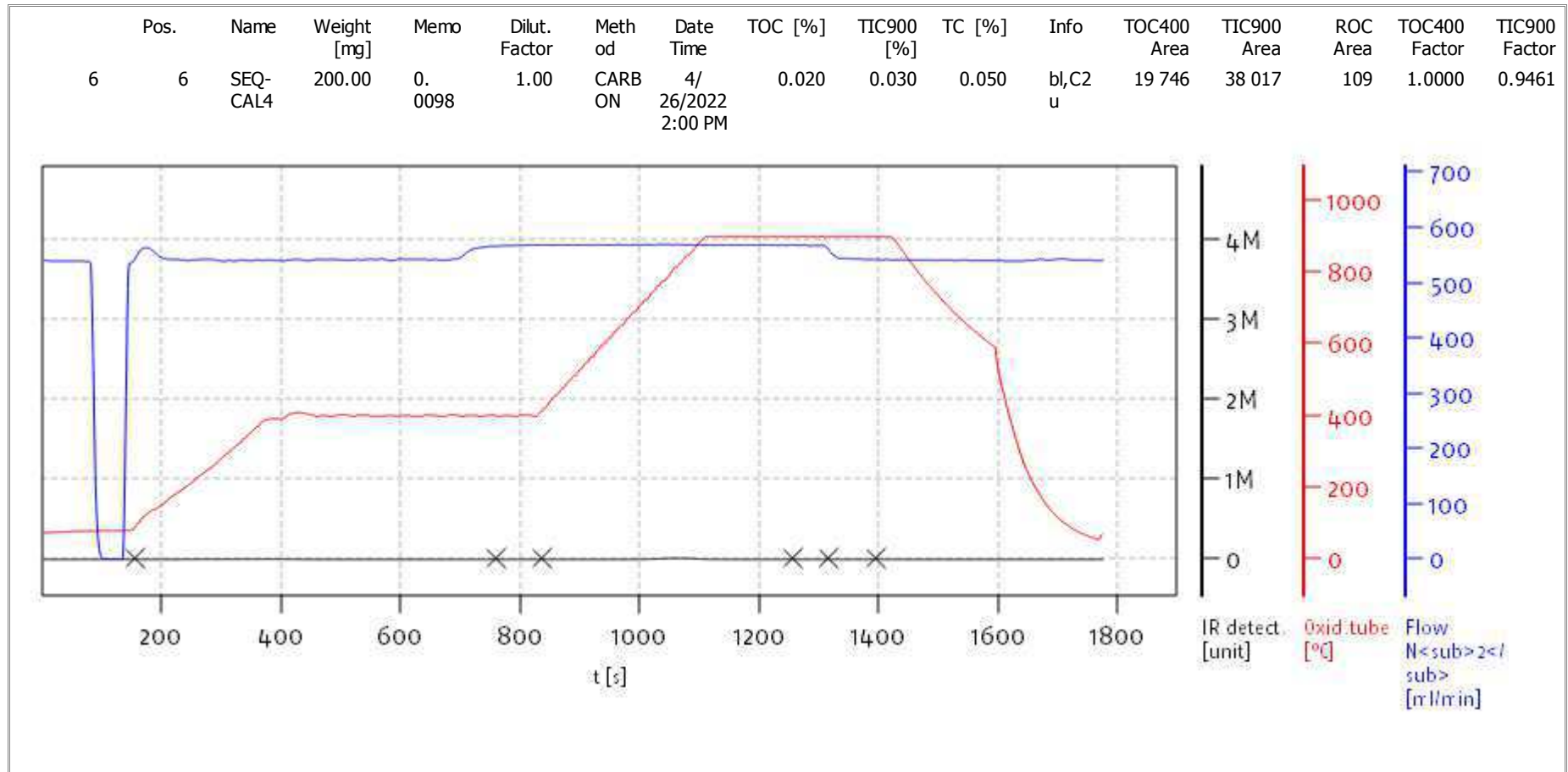
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Balance: BAL3
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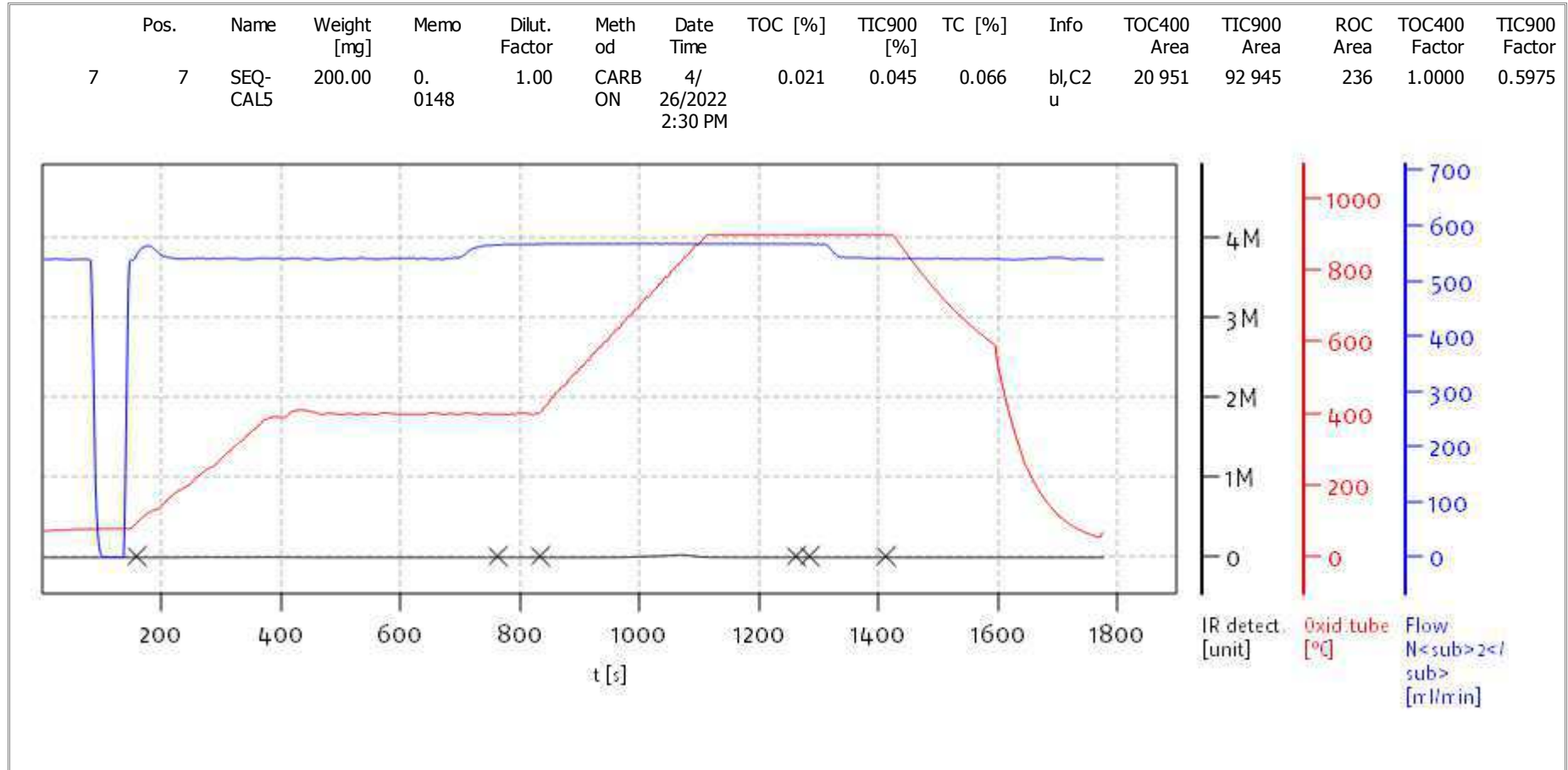
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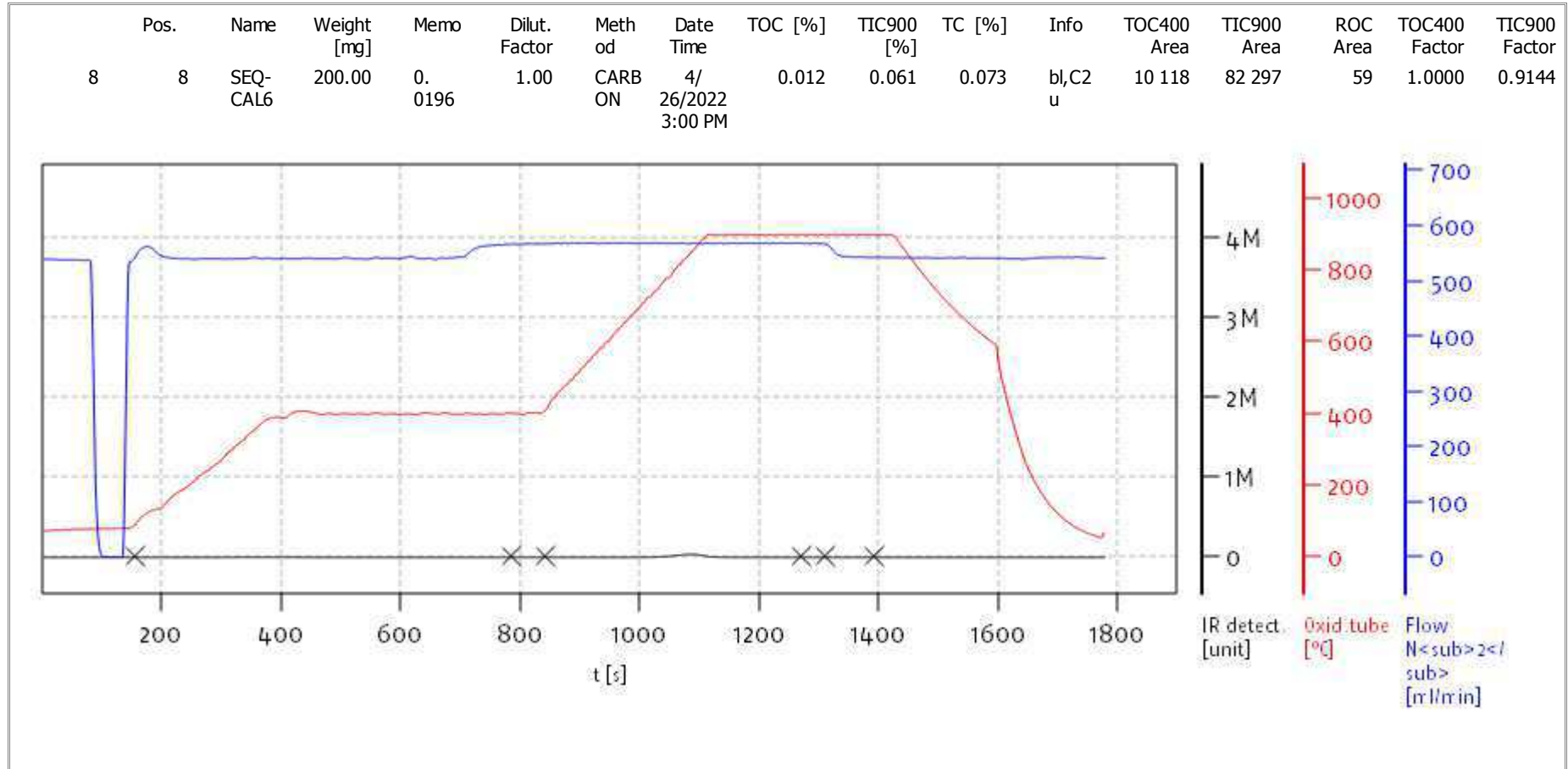
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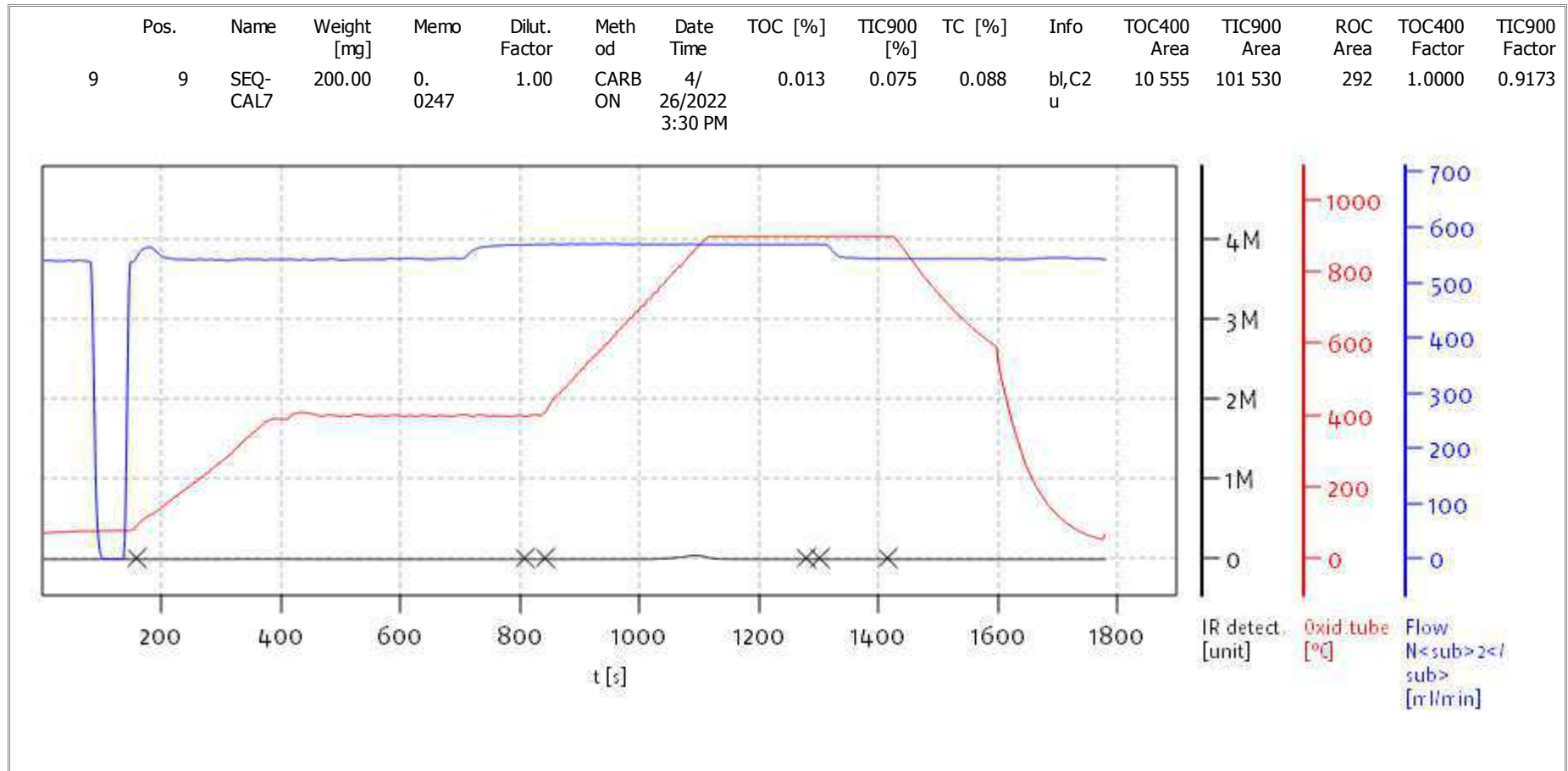
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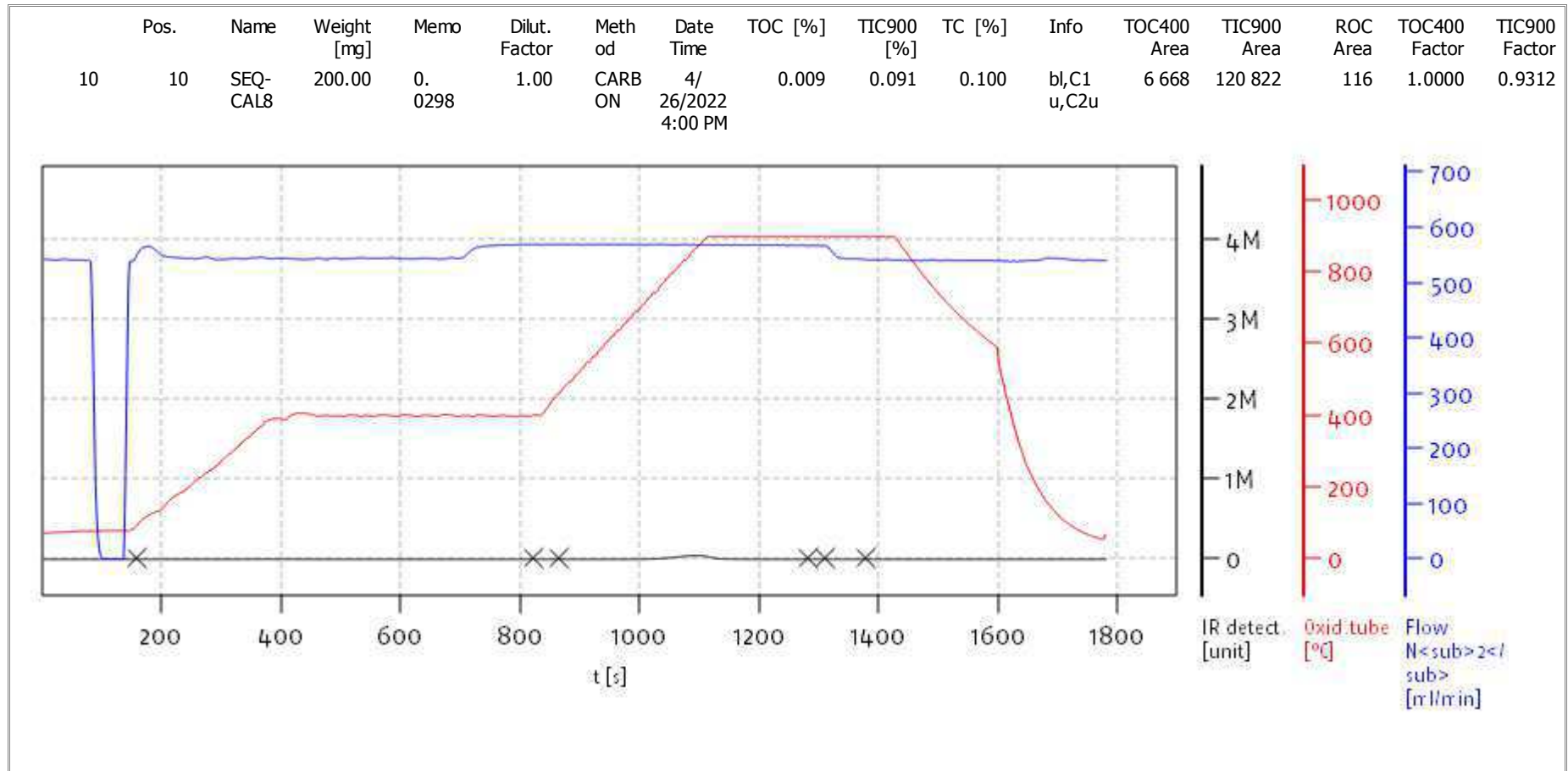
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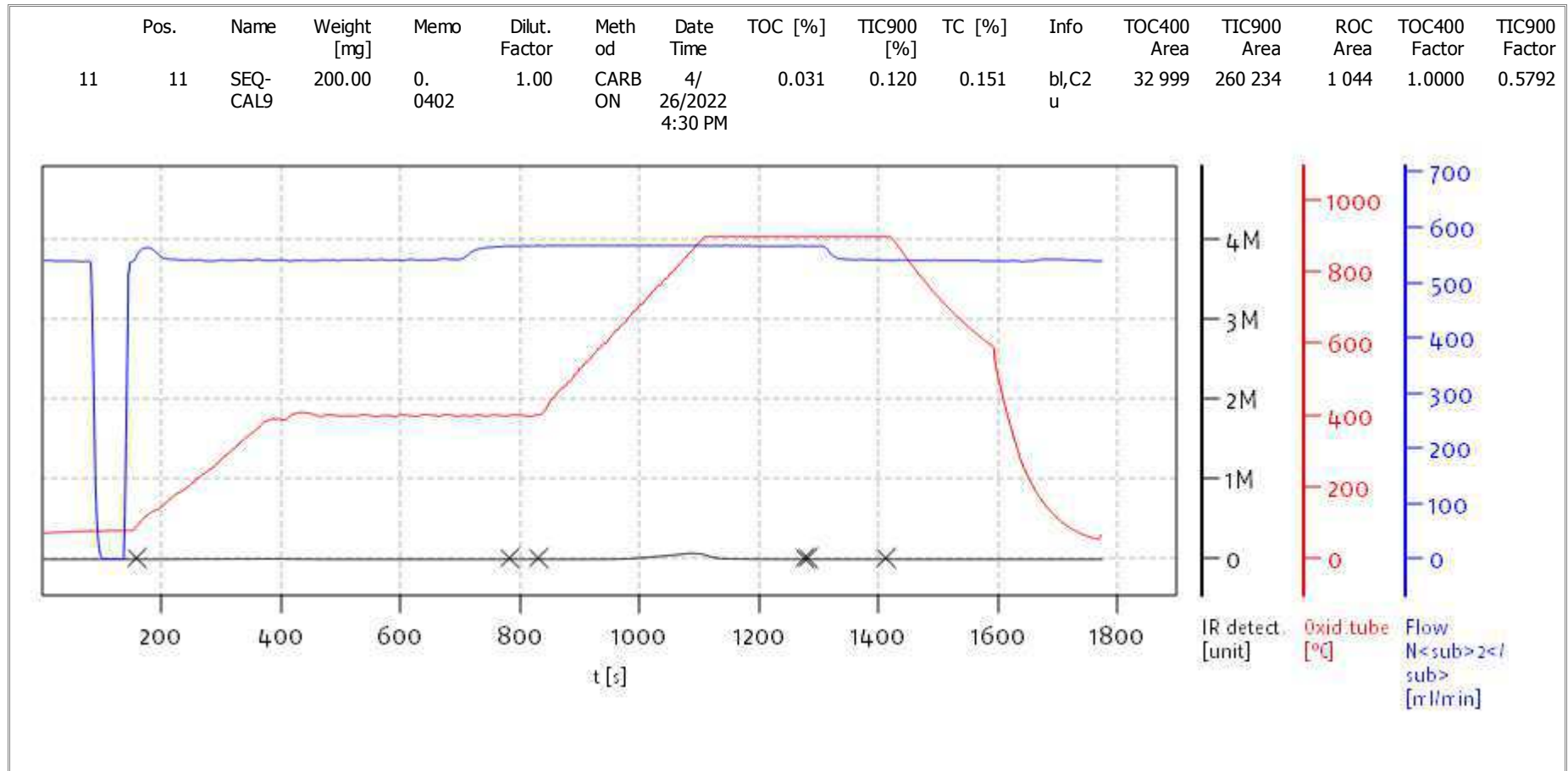
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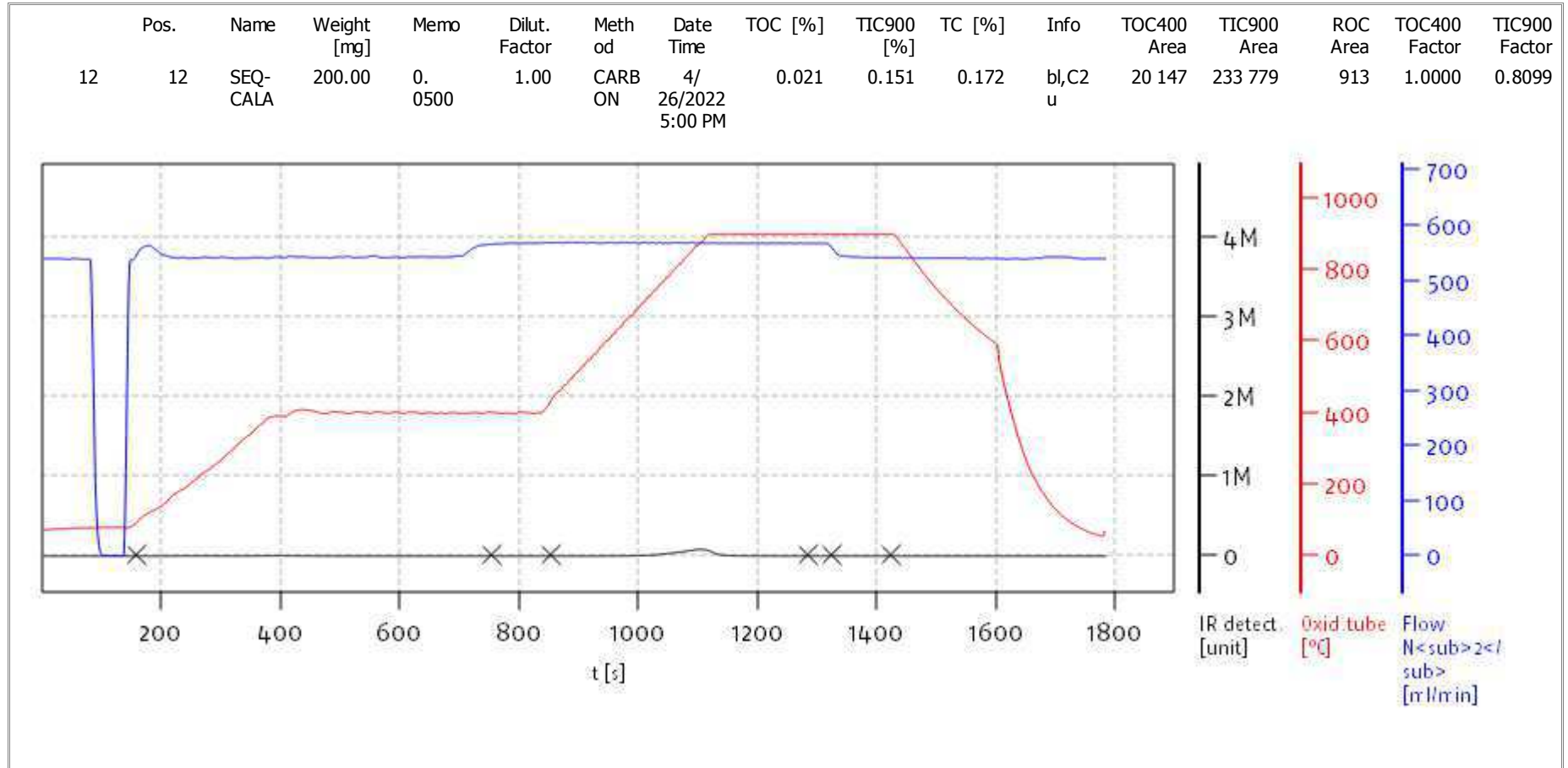
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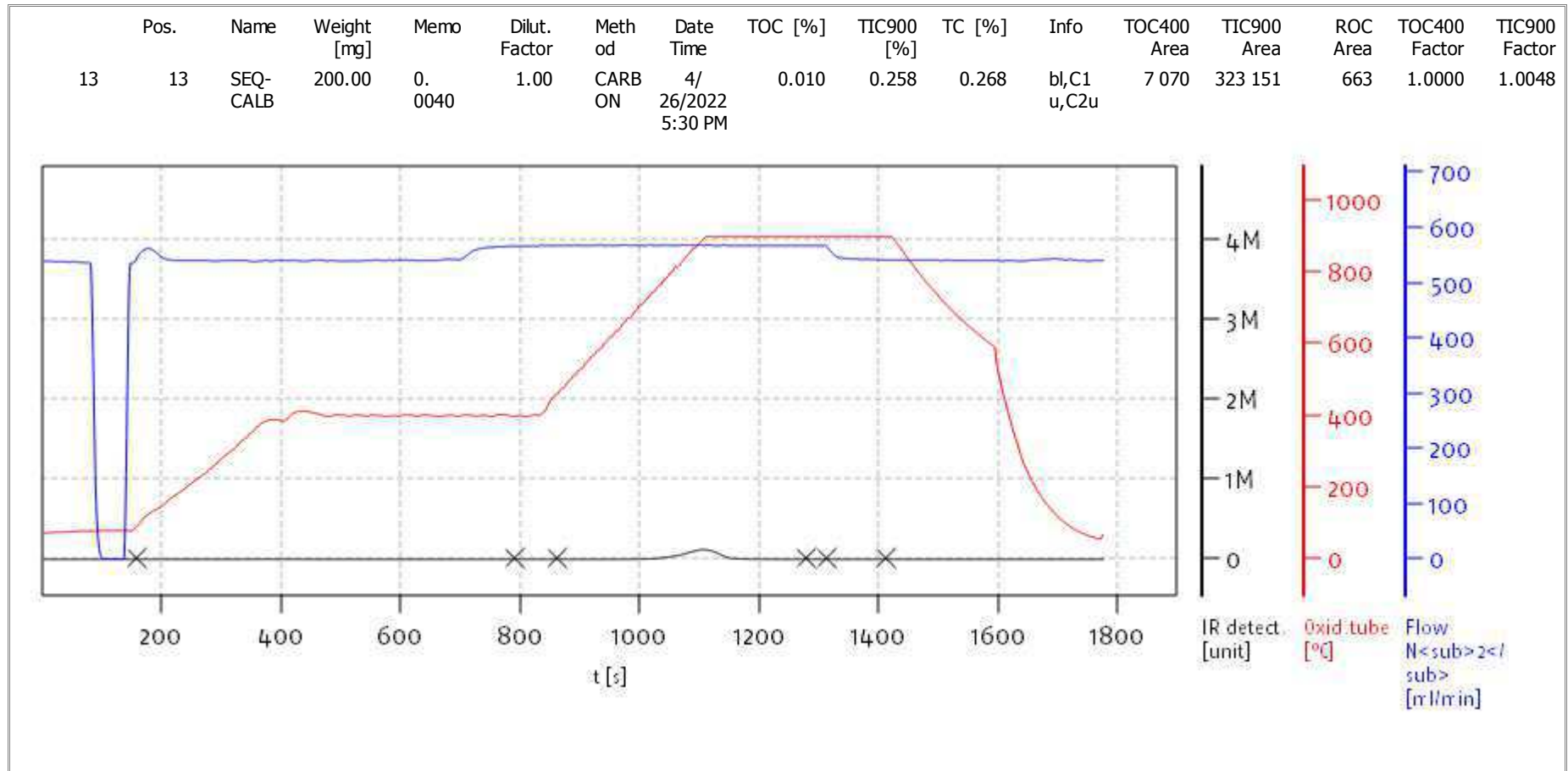
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Soli TOC Cube, Carbon
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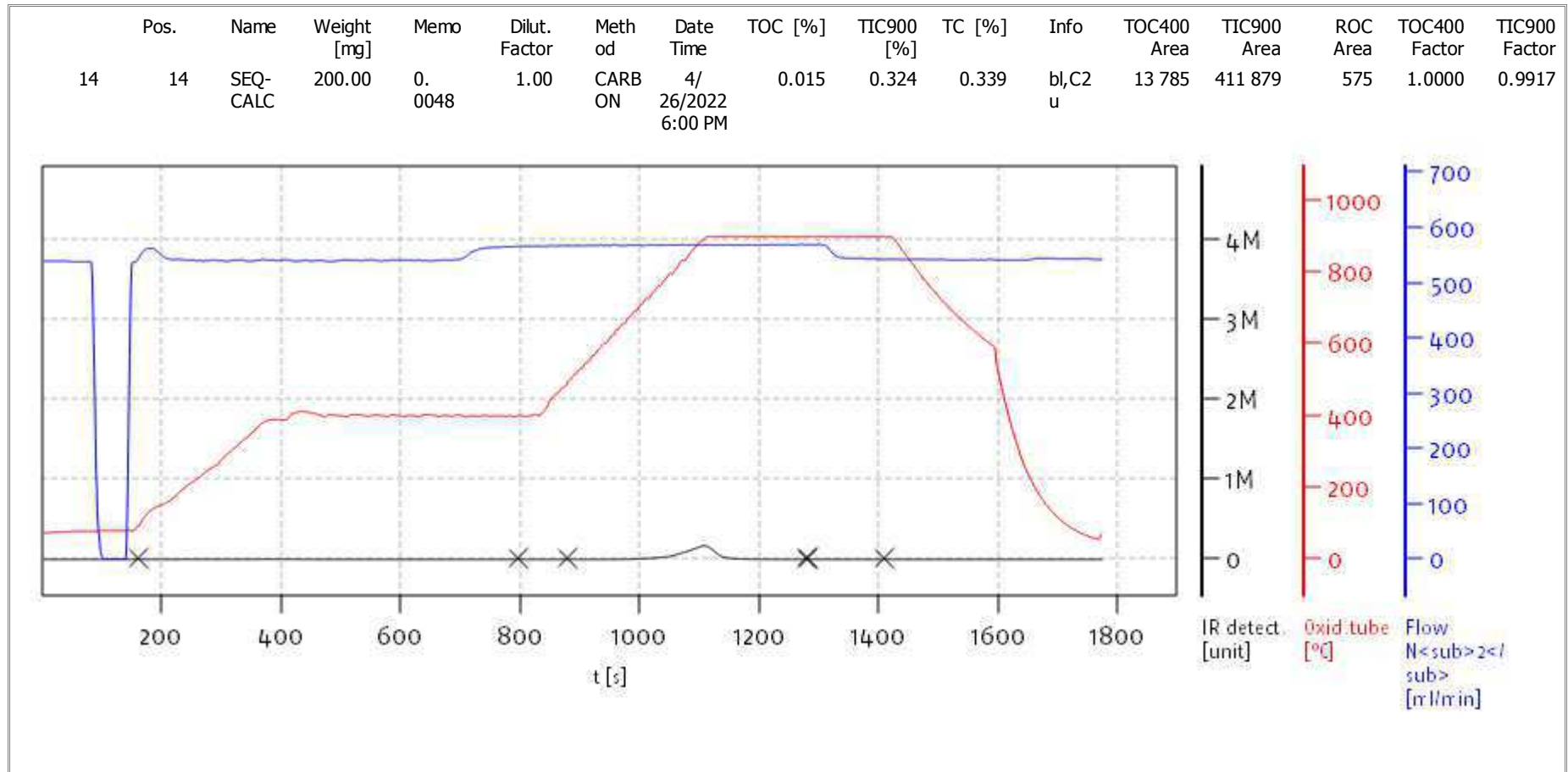
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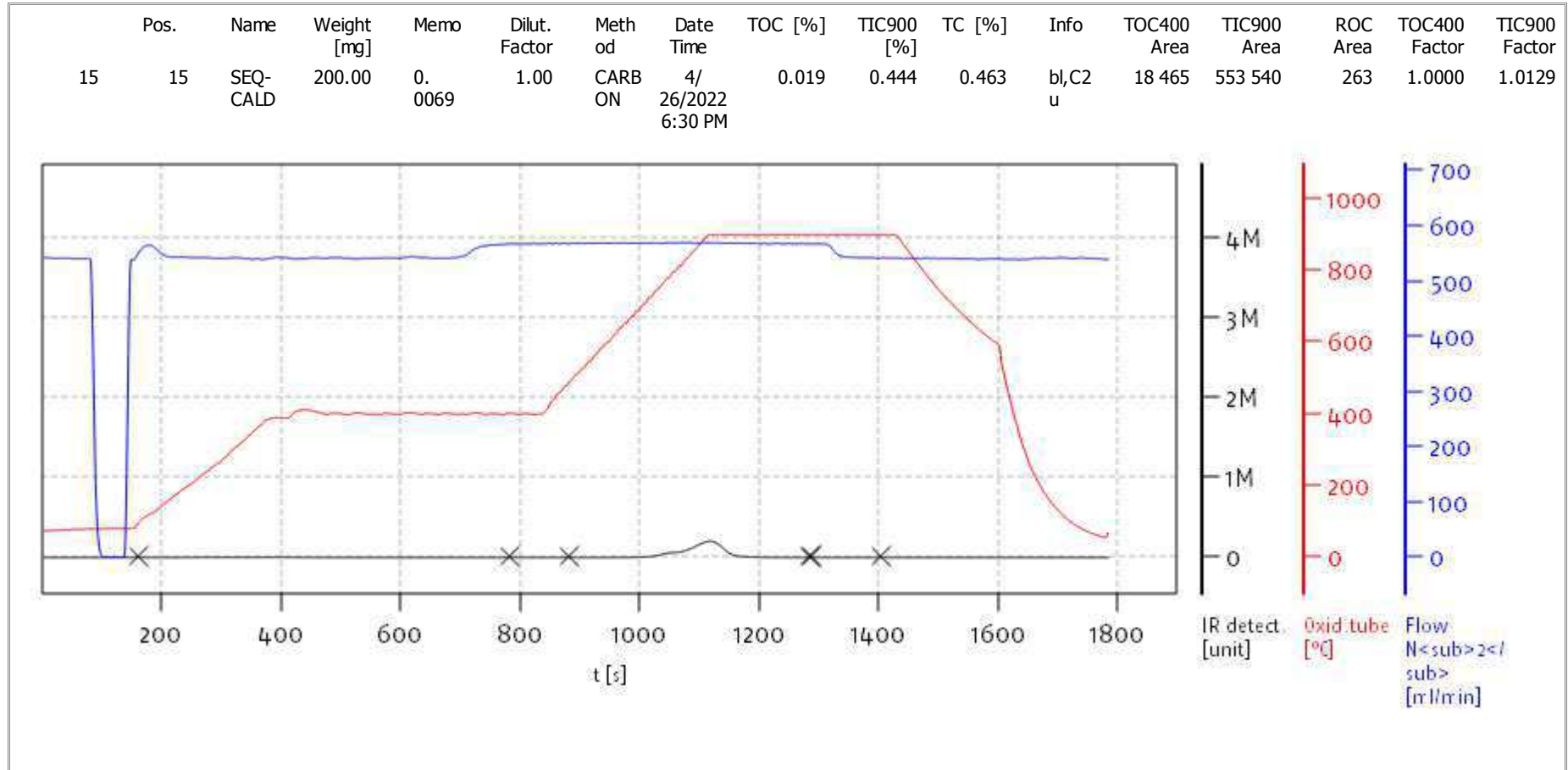
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Name:

Access: solITOC superuser

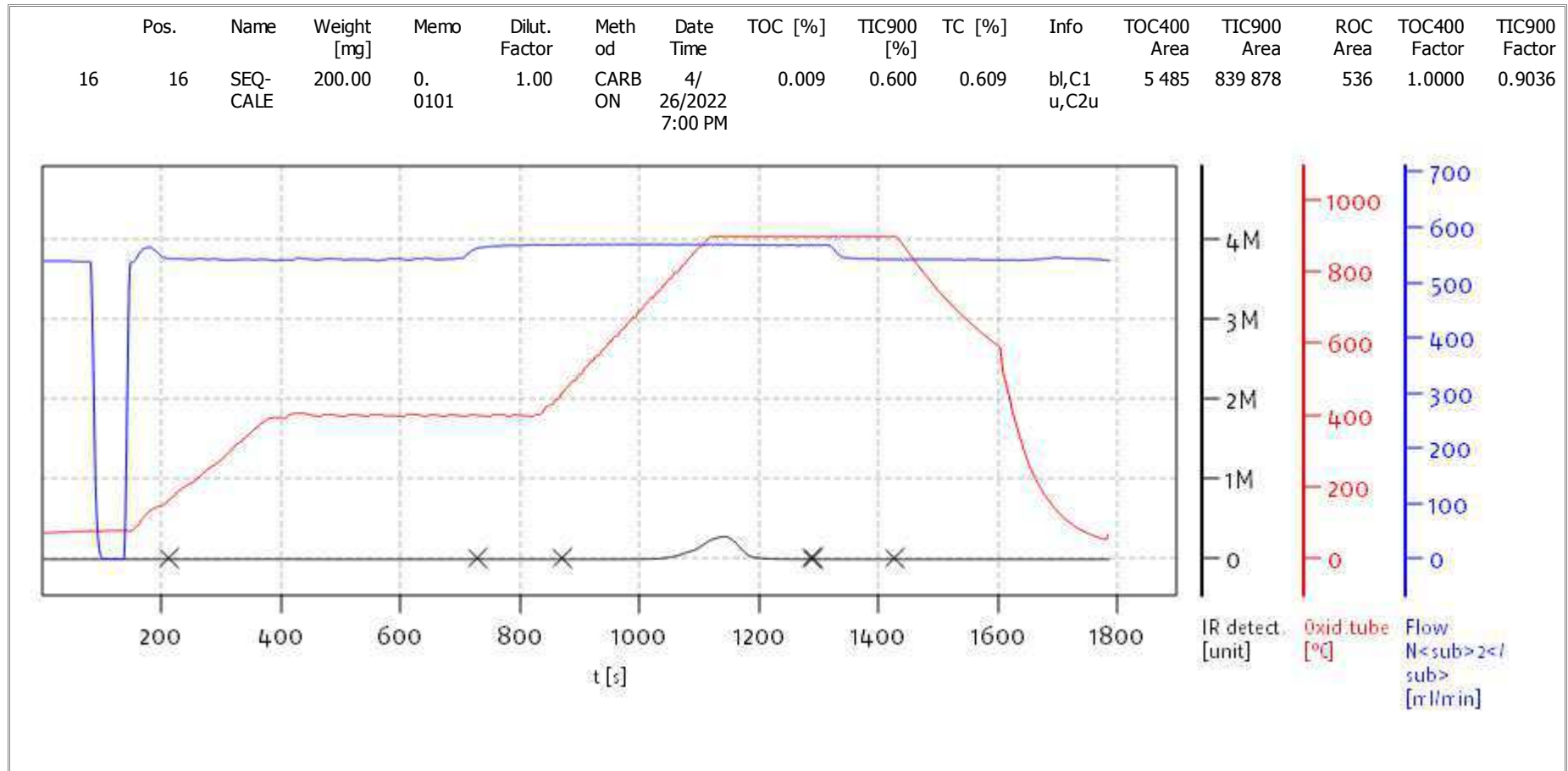
Date: Wed Apr 27 11:07:12 2022



solITOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC



Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE



Name:

Access: solITOC superuser

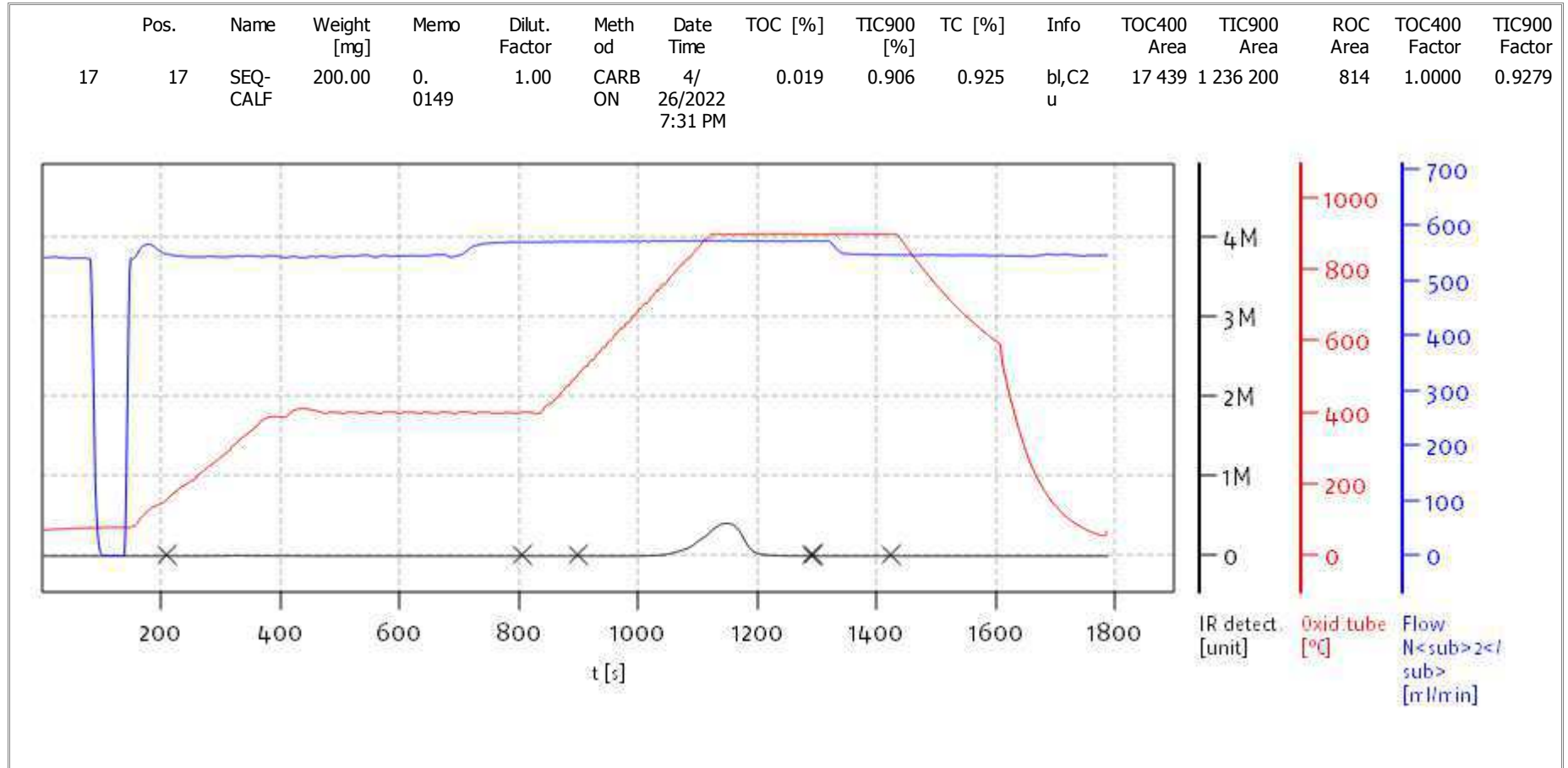
Date: Wed Apr 27 11:07:12 2022



solITOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC



Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE



Name:

Access: solITOC superuser

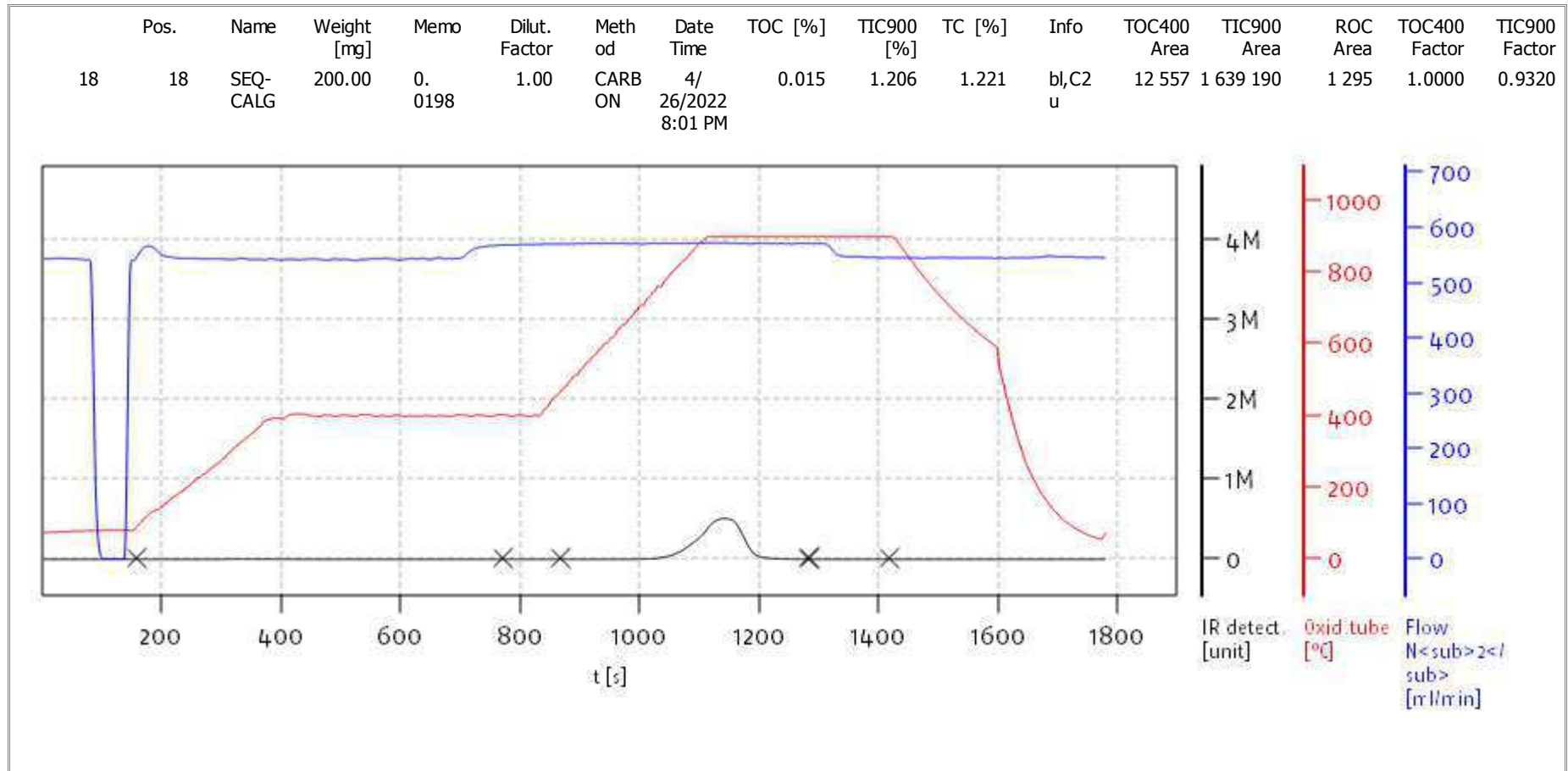
Date: Wed Apr 27 11:07:12 2022



solITOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC



Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE



Name:

Access: solITOC superuser

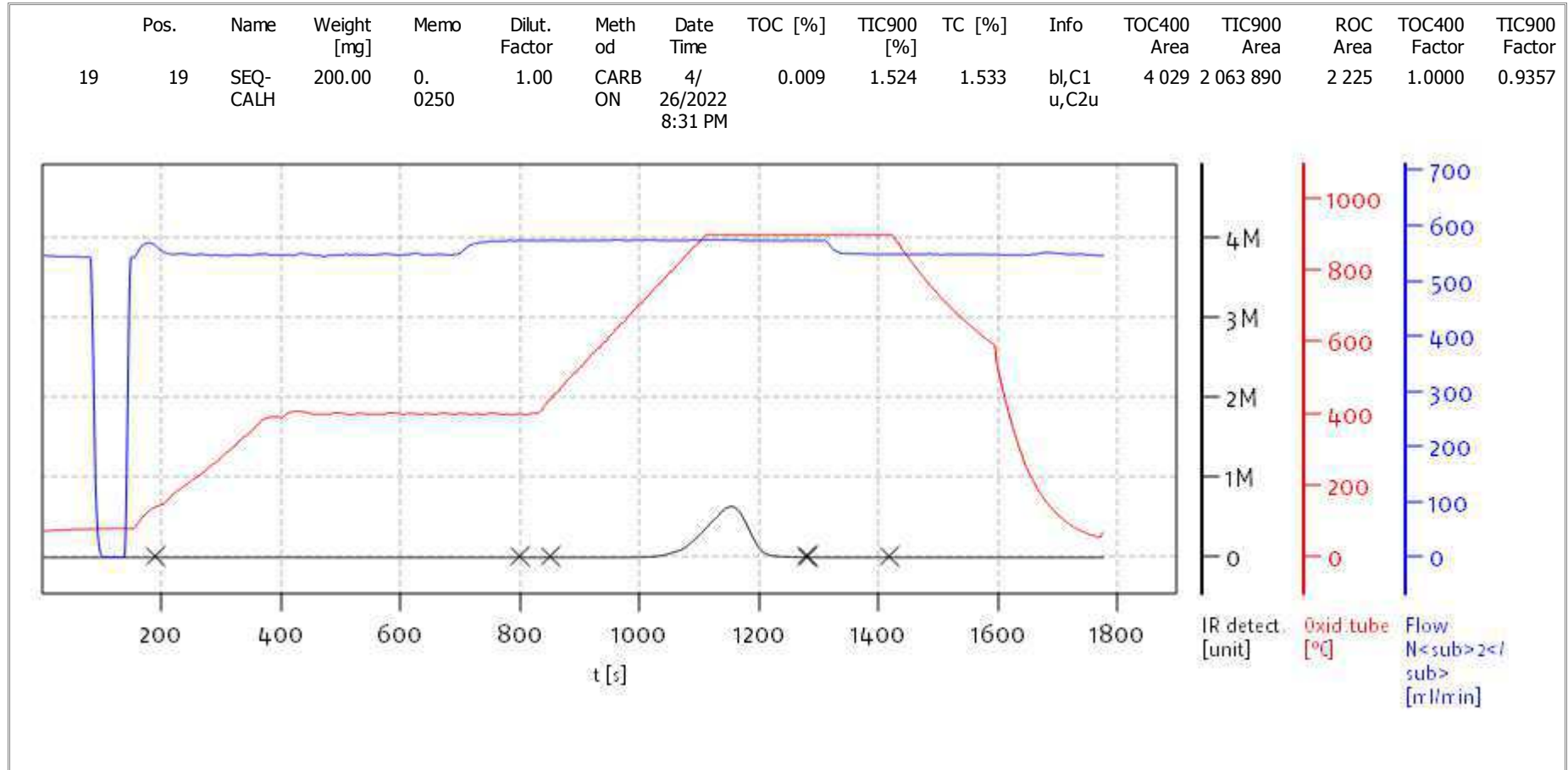
Date: Wed Apr 27 11:07:12 2022



solITOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC



Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE



Name:

Access: solITOC superuser

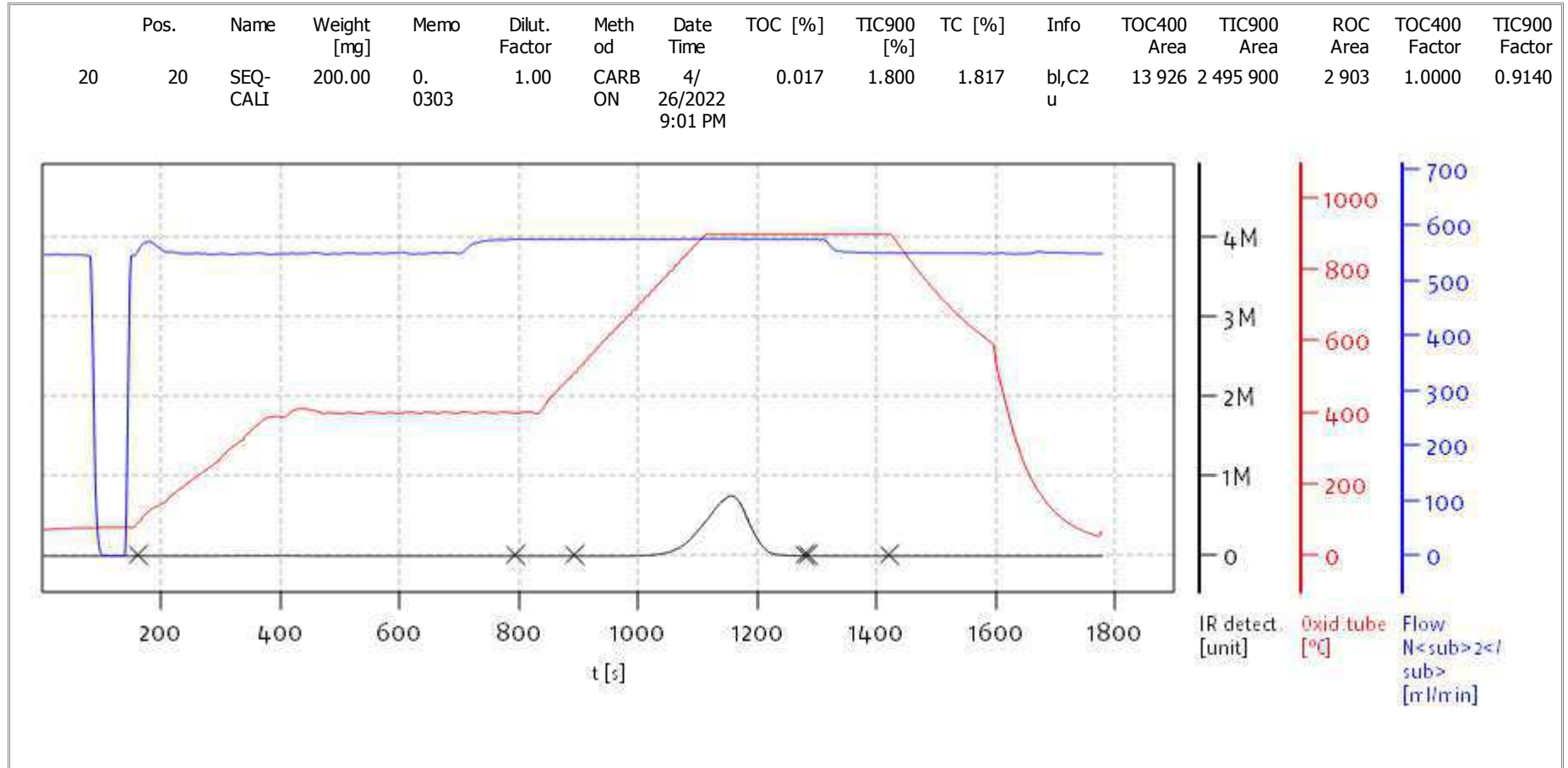
Date: Wed Apr 27 11:07:12 2022



solITOC V2.0.2 (31015f9) 2018-11-19
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Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE



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Access: solITOC superuser

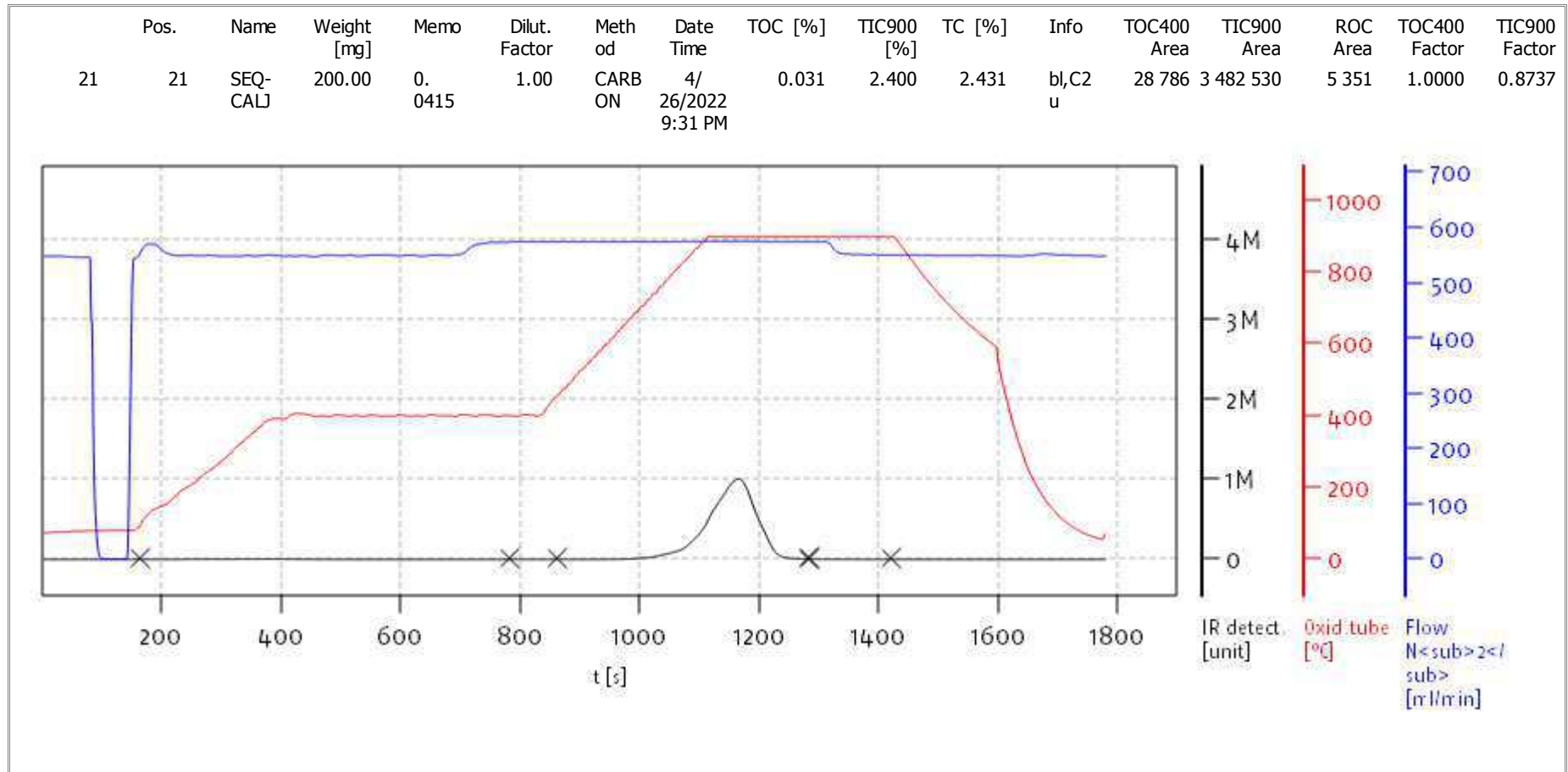
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solITOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC



Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE



Name:

Access: solITOC superuser

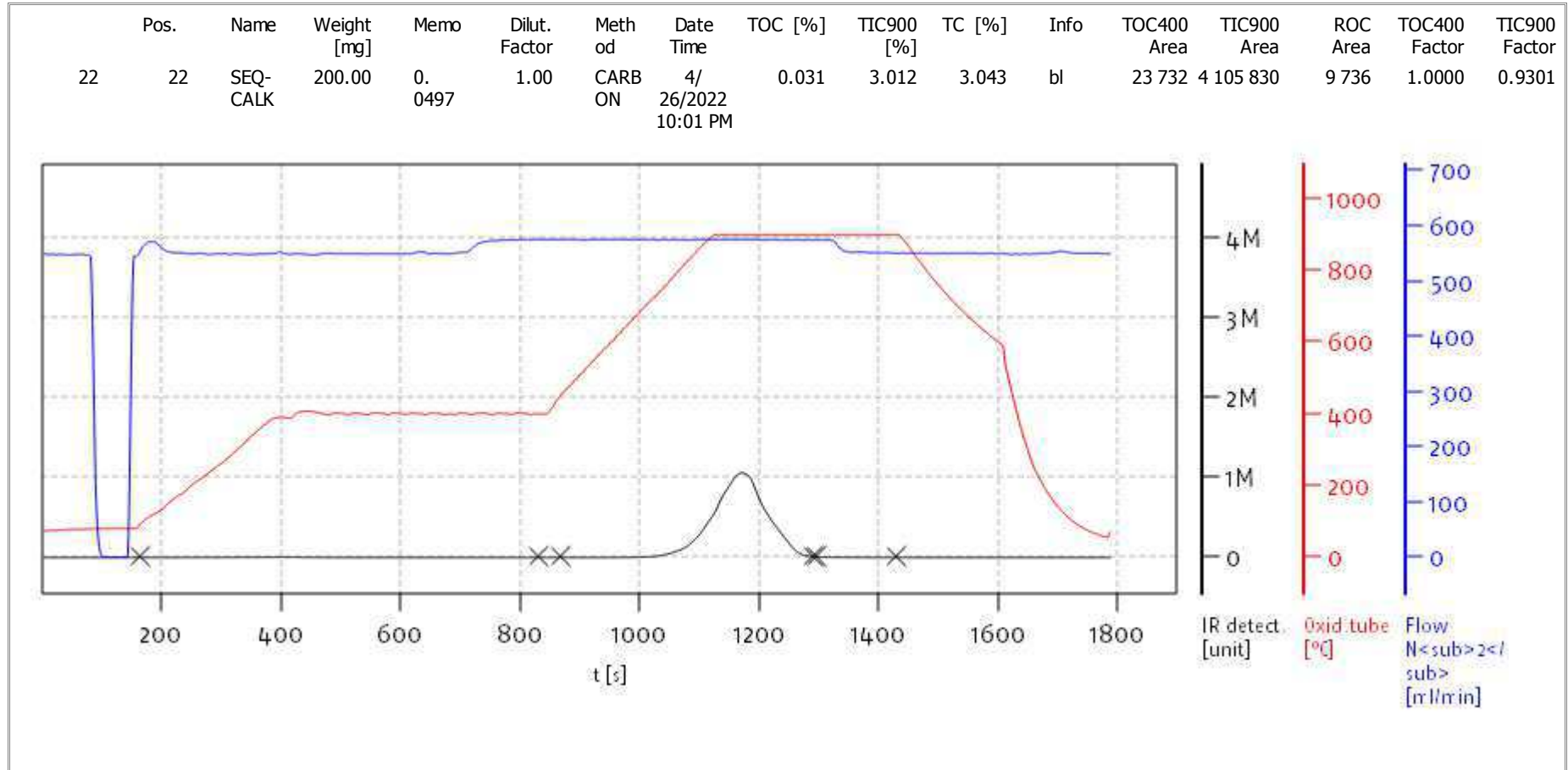
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solITOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC



Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE



Name:

Access: solITOC superuser

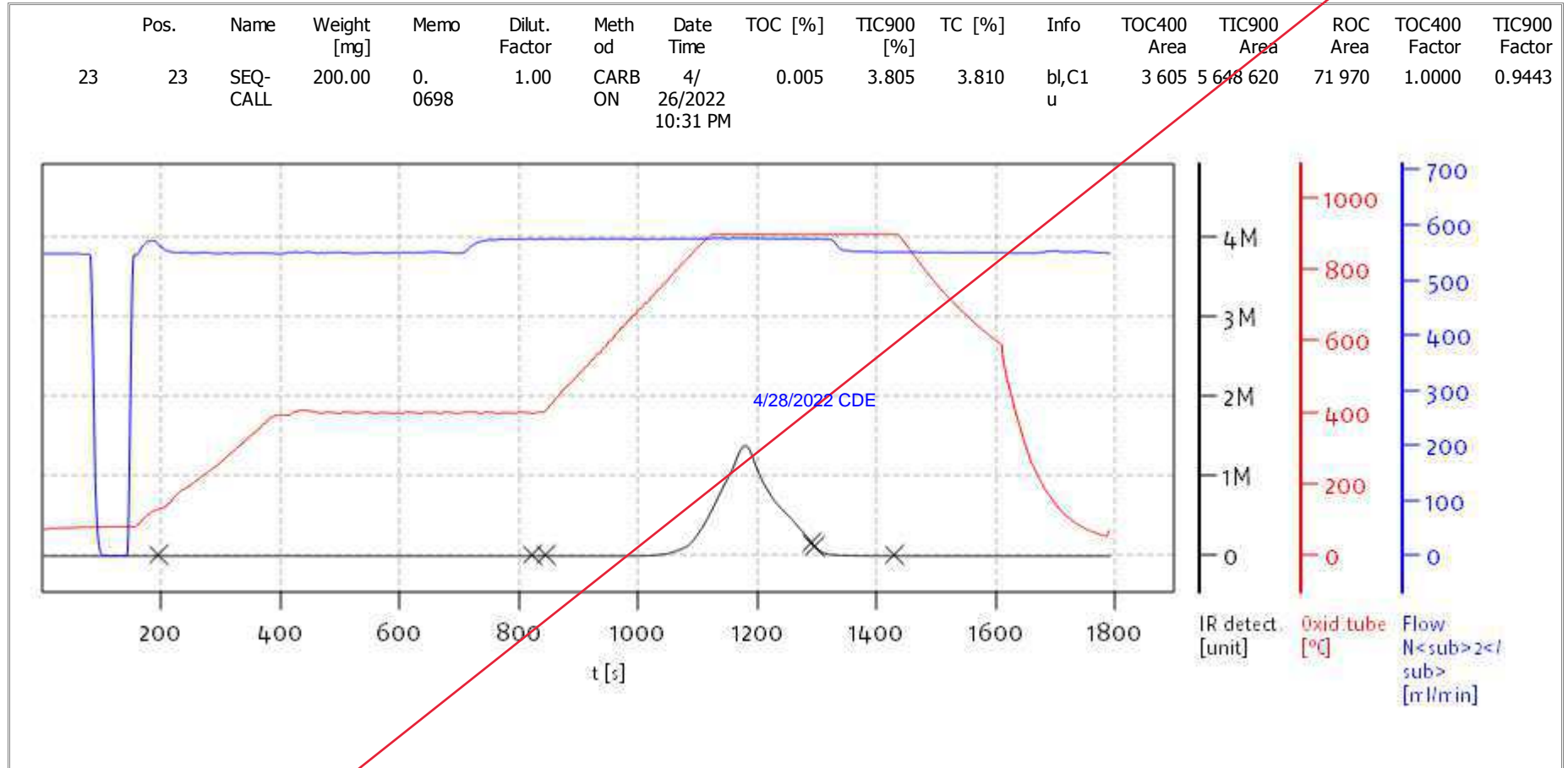
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solITOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC



Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE



Name:

Access: solITOC superuser

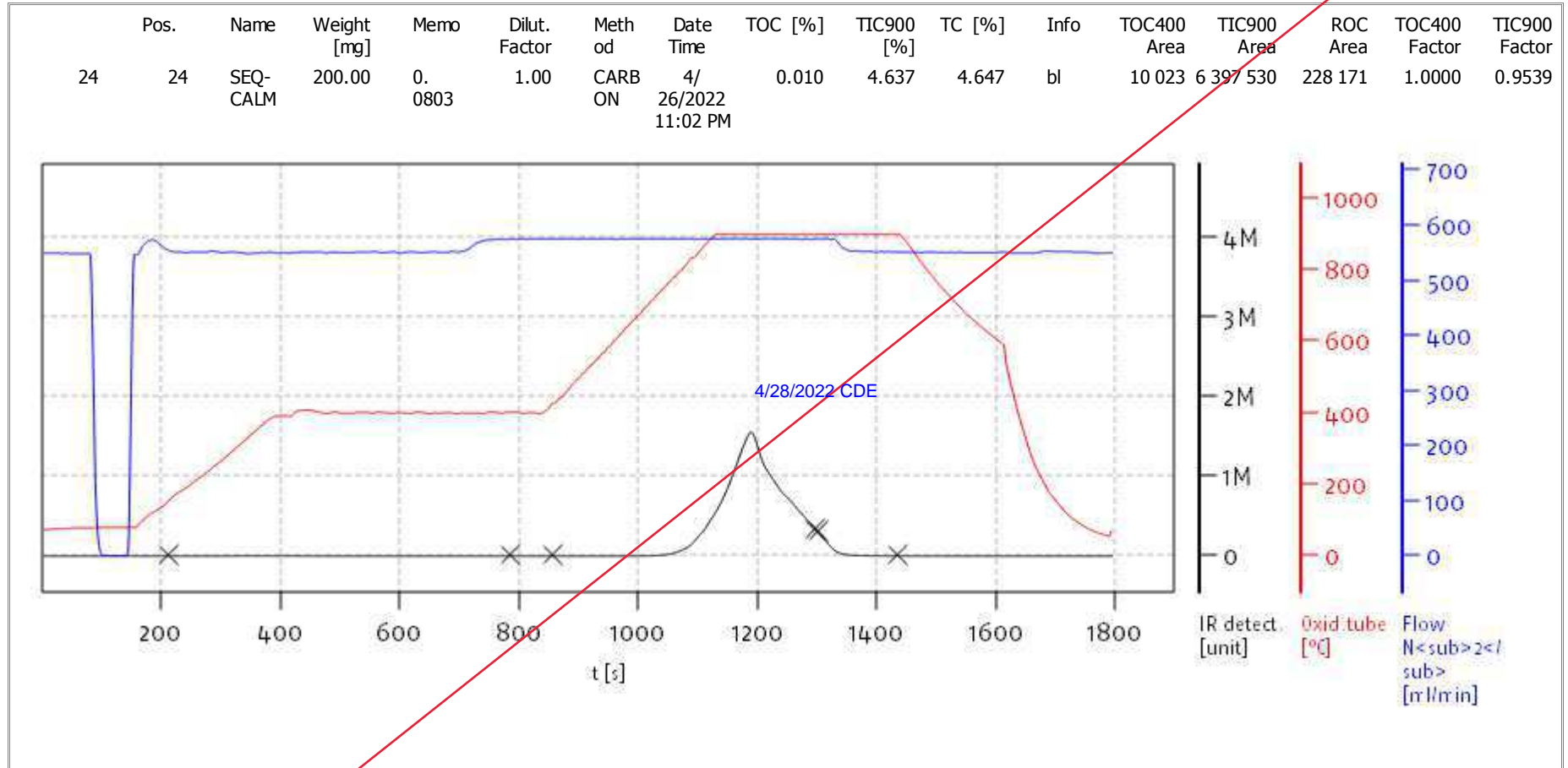
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solITOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC



Soli TOC Cube, Carbon
Balance: BAL3
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Name:

Access: solITOC superuser

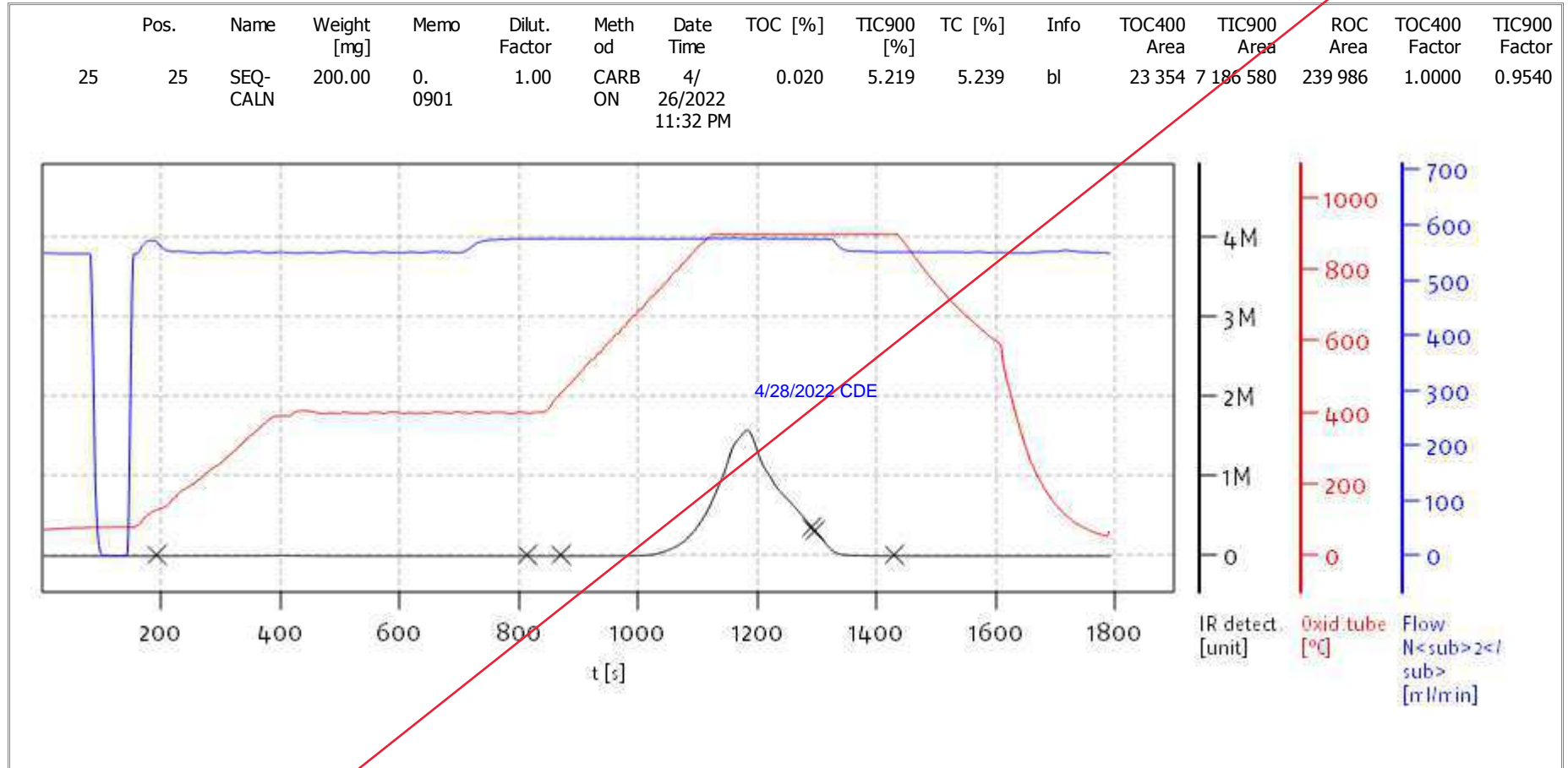
Date: Wed Apr 27 11:07:12 2022



solITOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
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Soli TOC Cube, Carbon
Balance: BAL3
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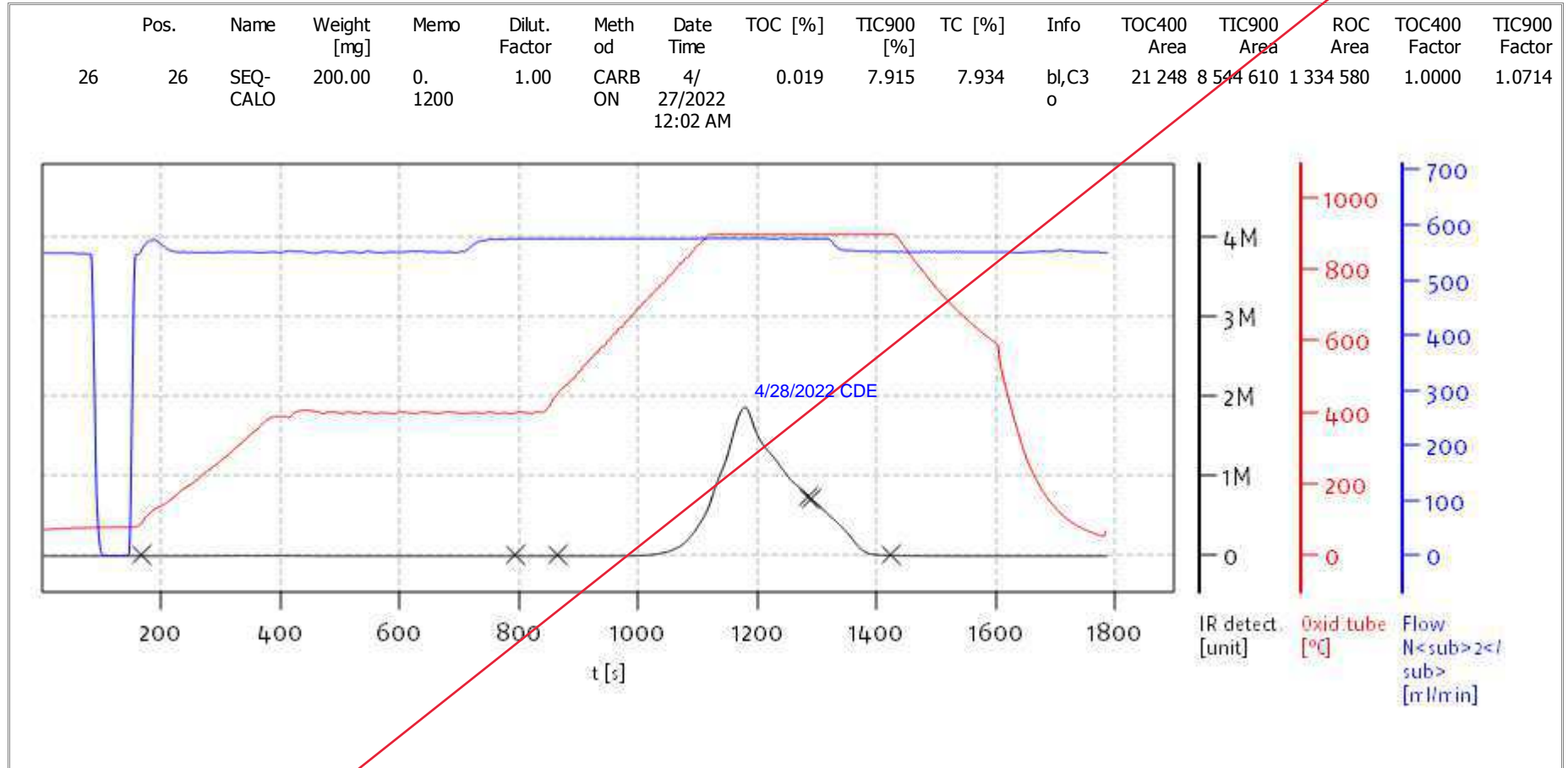
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Serial No: 0300.181017
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Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE



Name:

Access: solITOC superuser

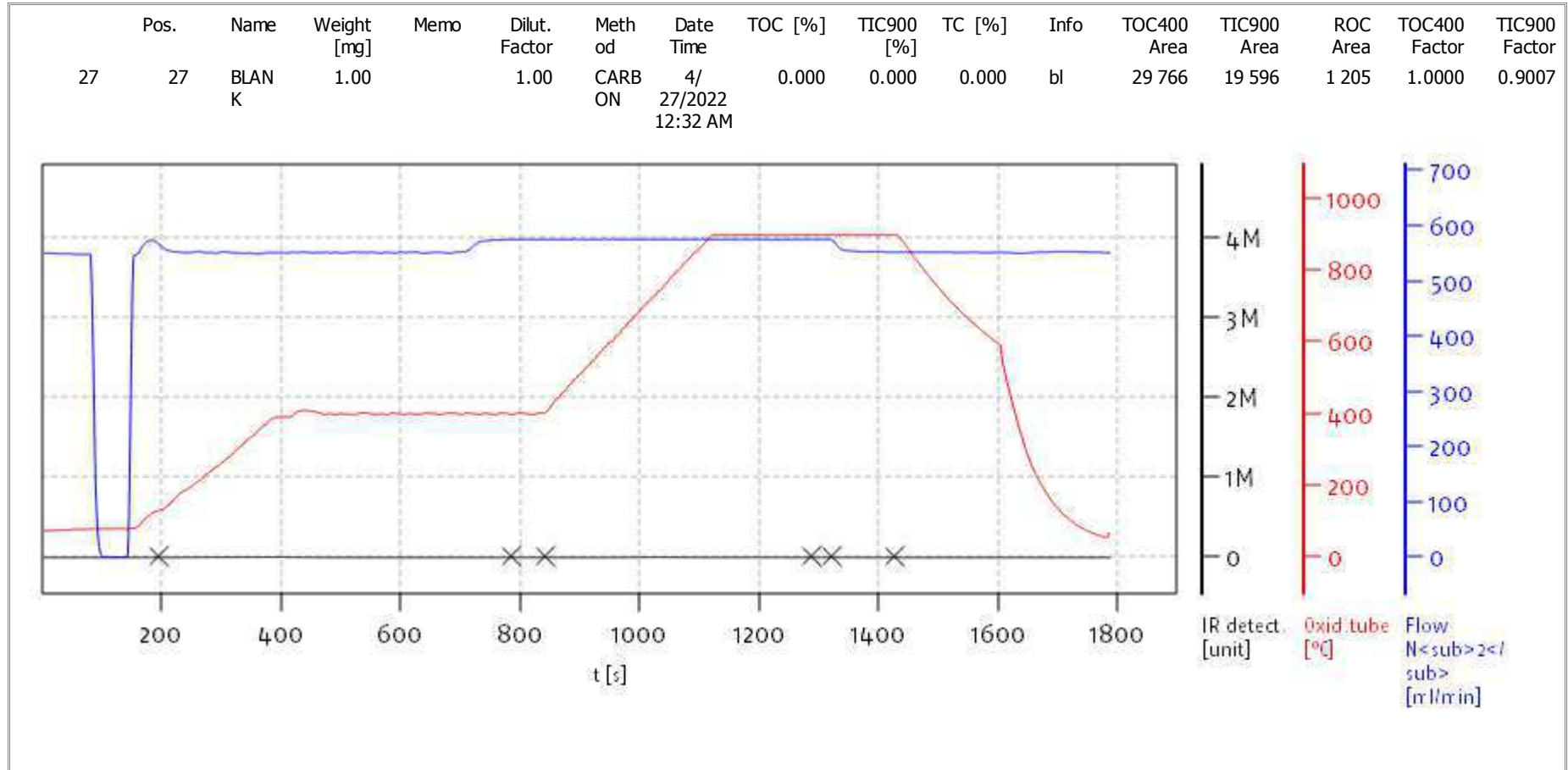
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Serial No: 0300.181017
Mode CCC



Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE



Name:

Access: solITOC superuser

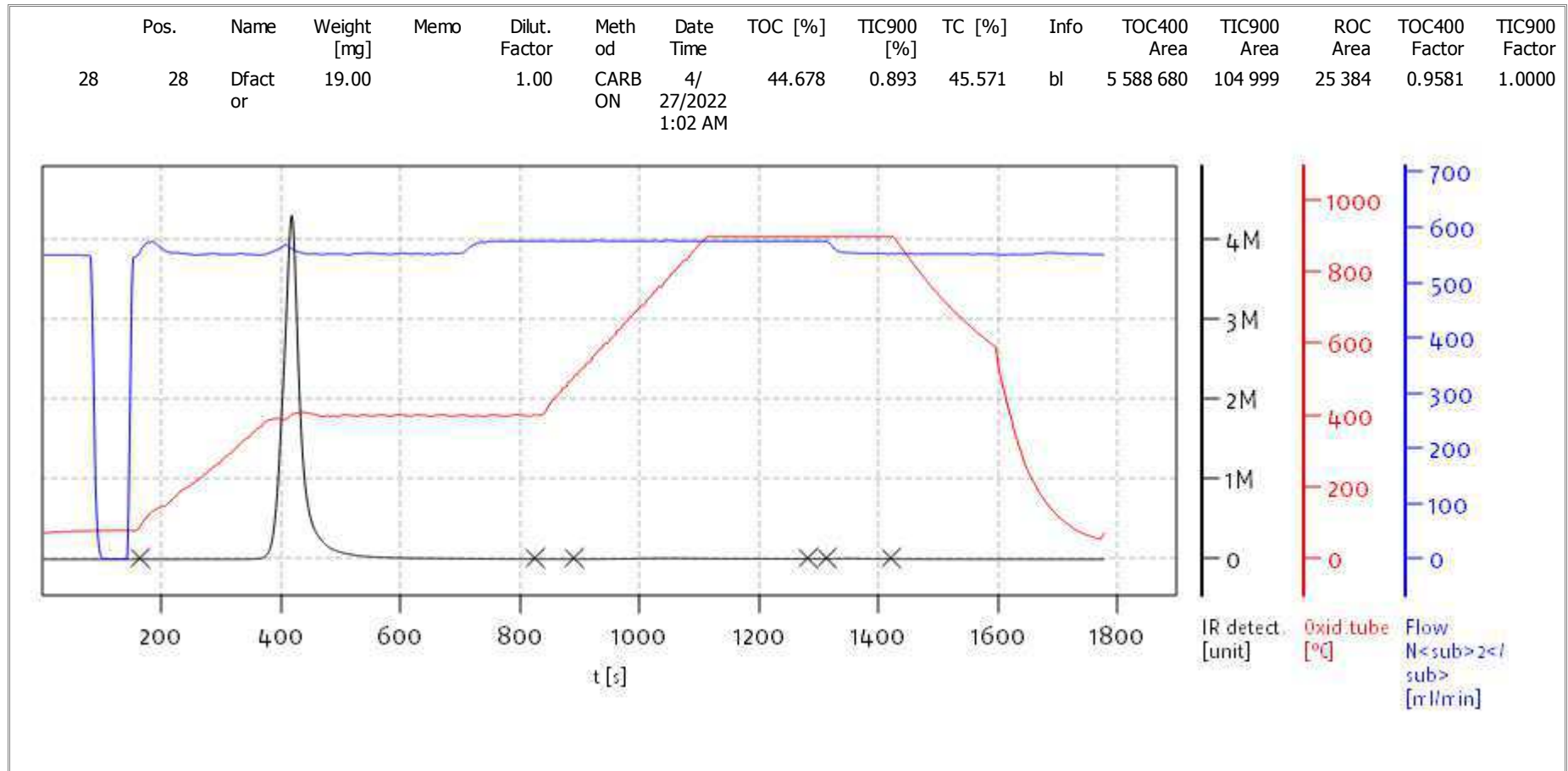
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solITOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC



Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE



Name:

Access: solITOC superuser

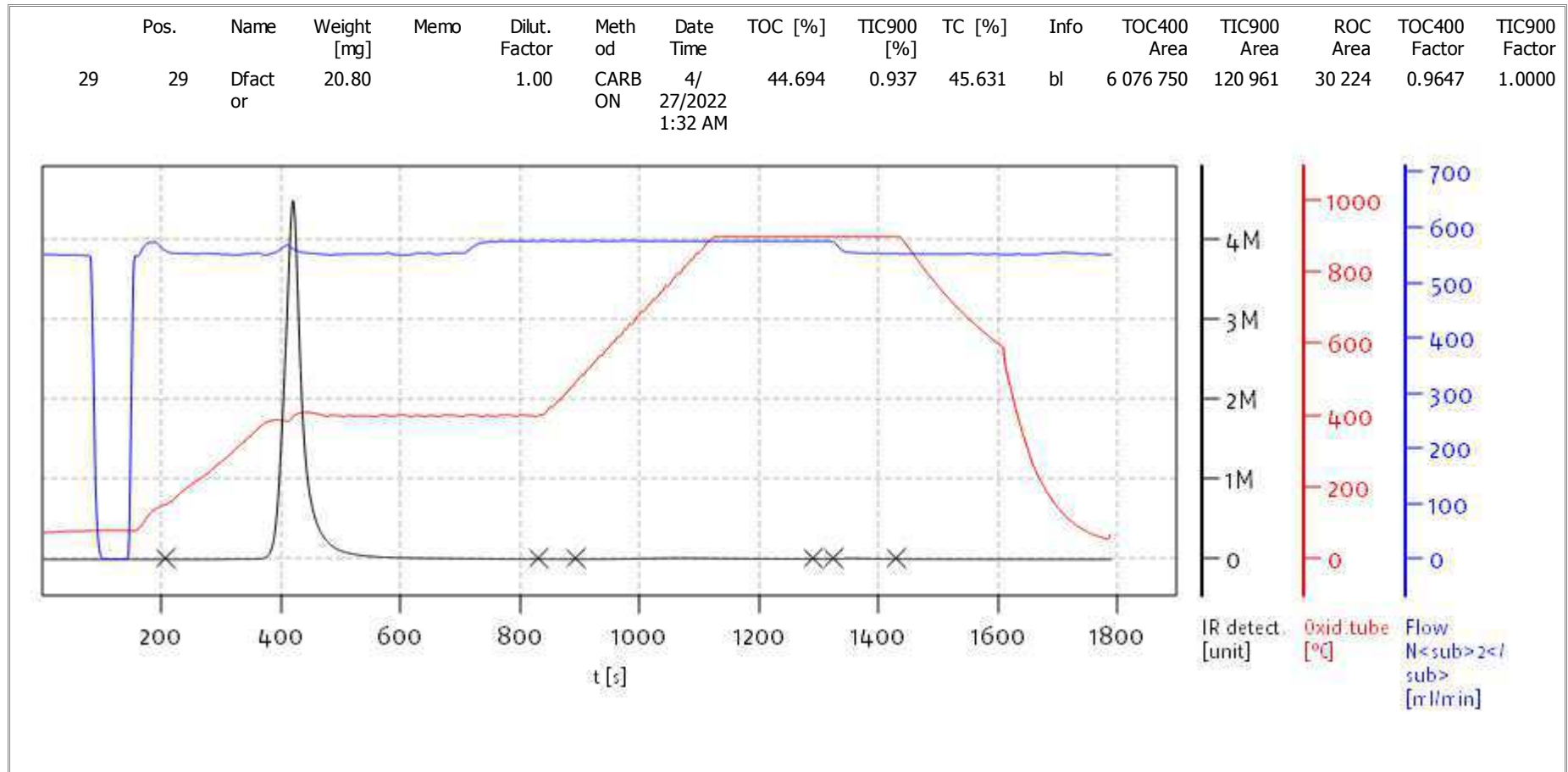
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Serial No: 0300.181017
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Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE



Name:

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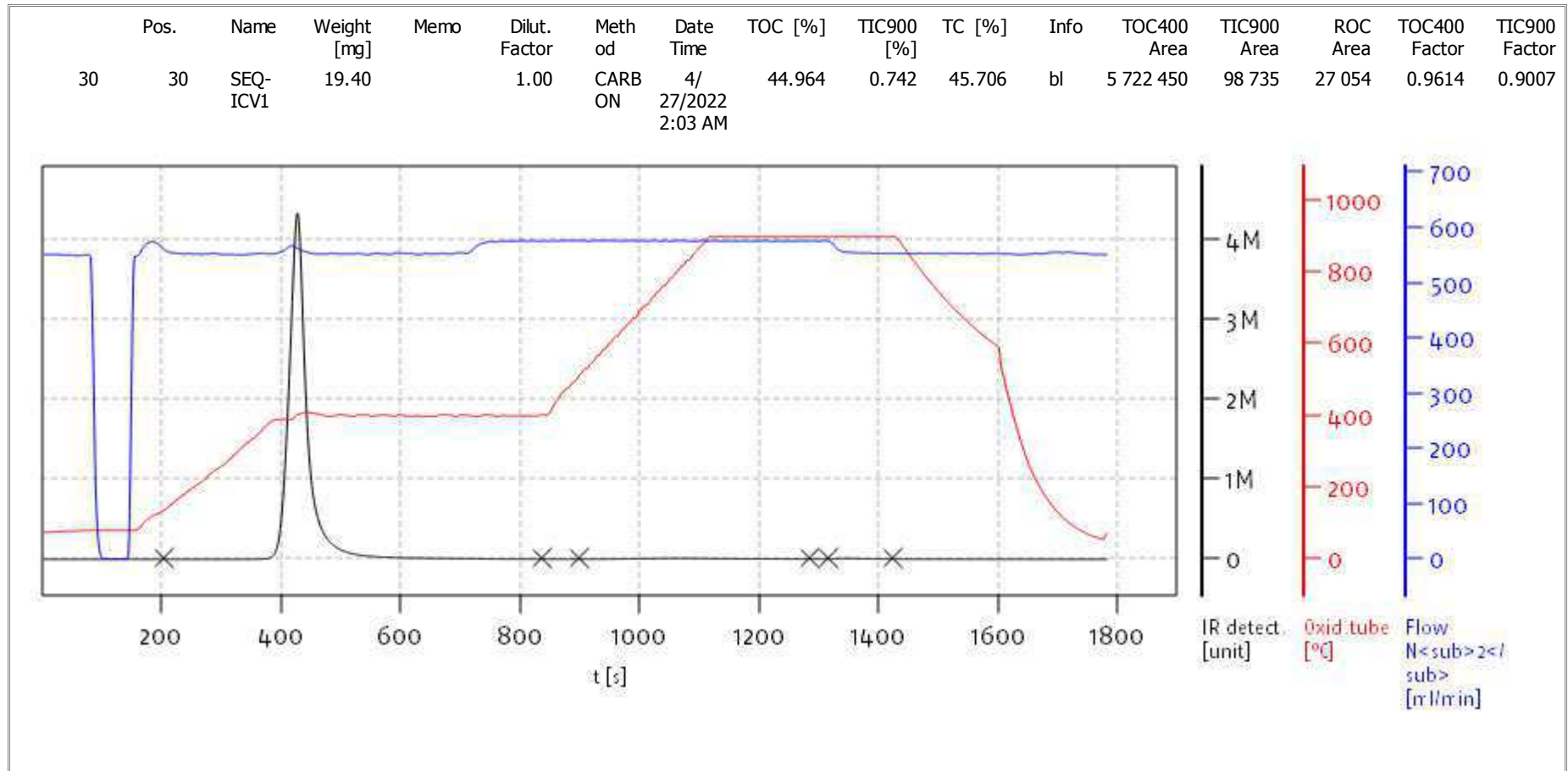
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solITOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC



Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE



Name:

Access: solITOC superuser

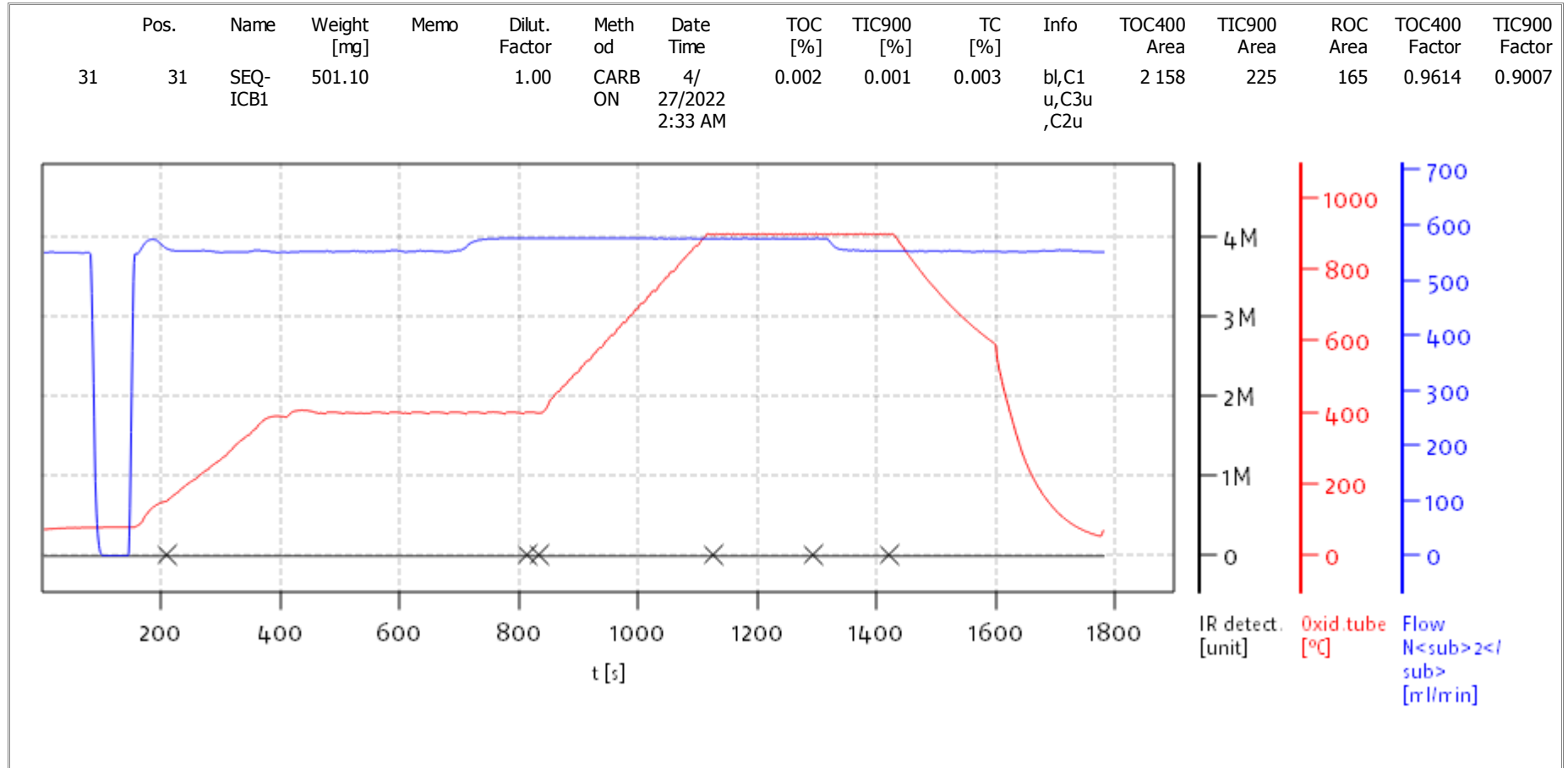
Date: Wed Apr 27 11:07:12 2022



solITOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC



Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE



Name:

Access: solITOC superuser

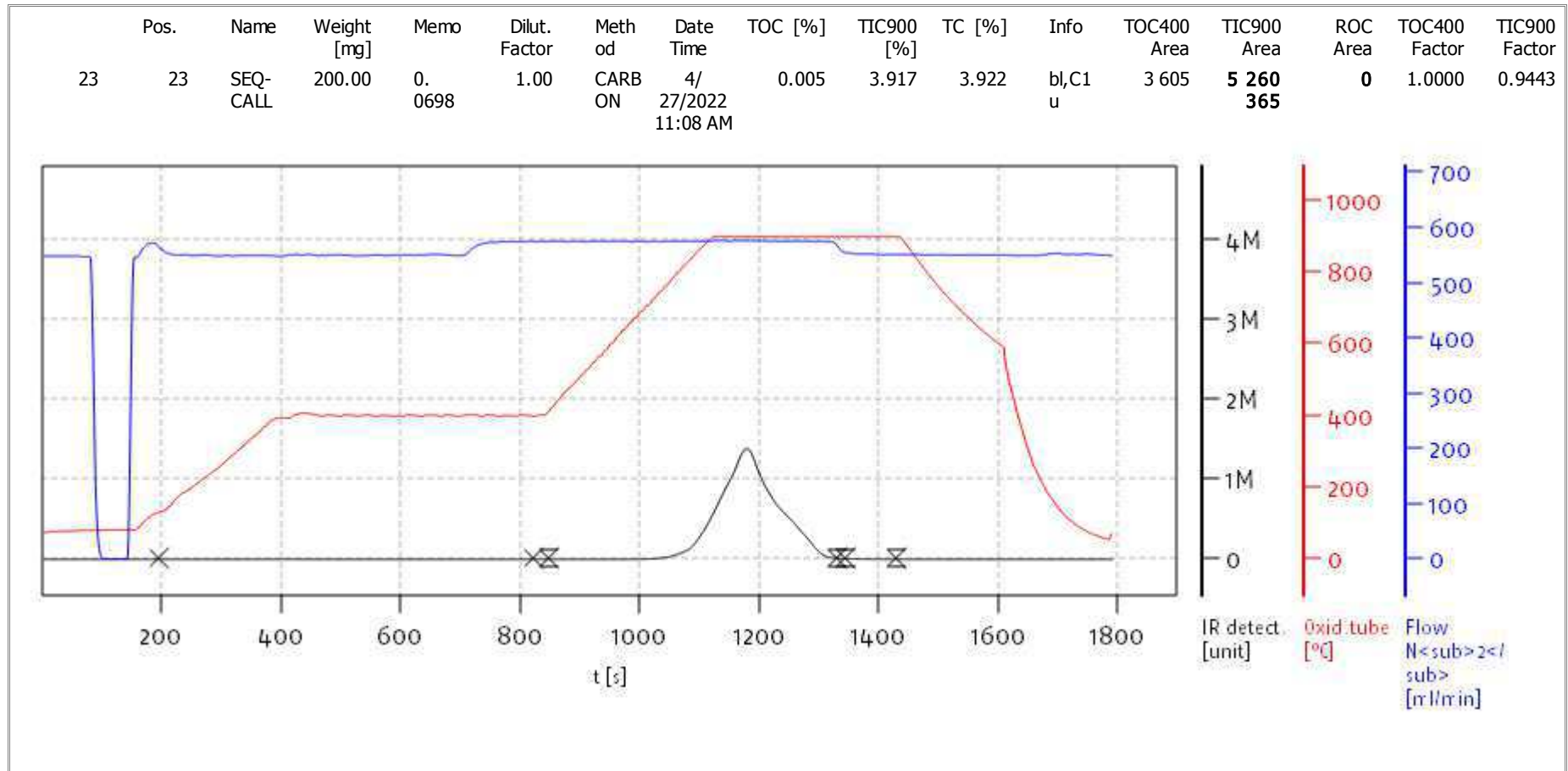
Date: Wed Apr 27 11:07:12 2022



solITOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC



Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE



Name:

Access: solITOC superuser

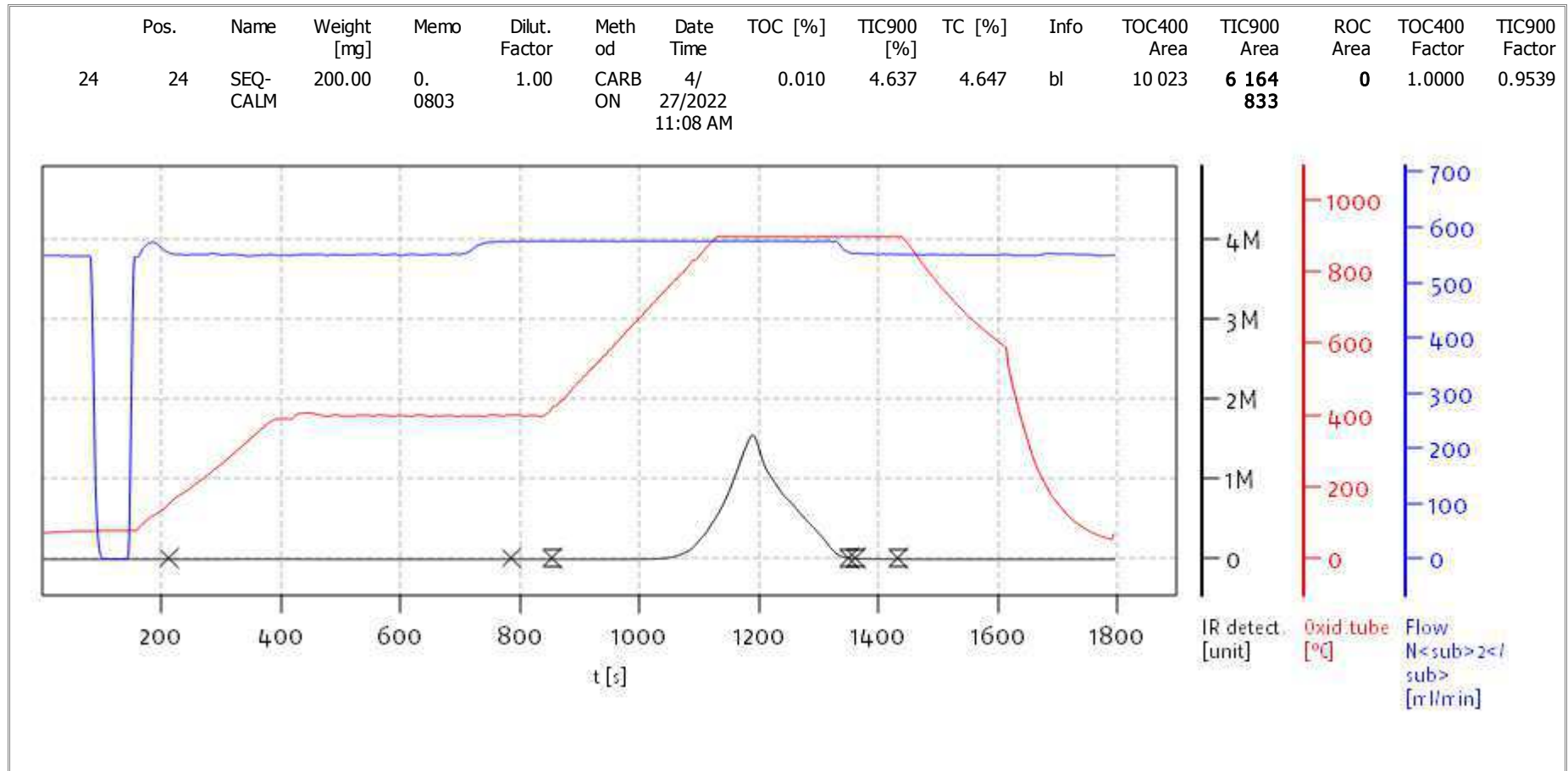
Date: Wed Apr 27 11:10:16 2022



solITOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC



Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE



Name:

Access: solITOC superuser

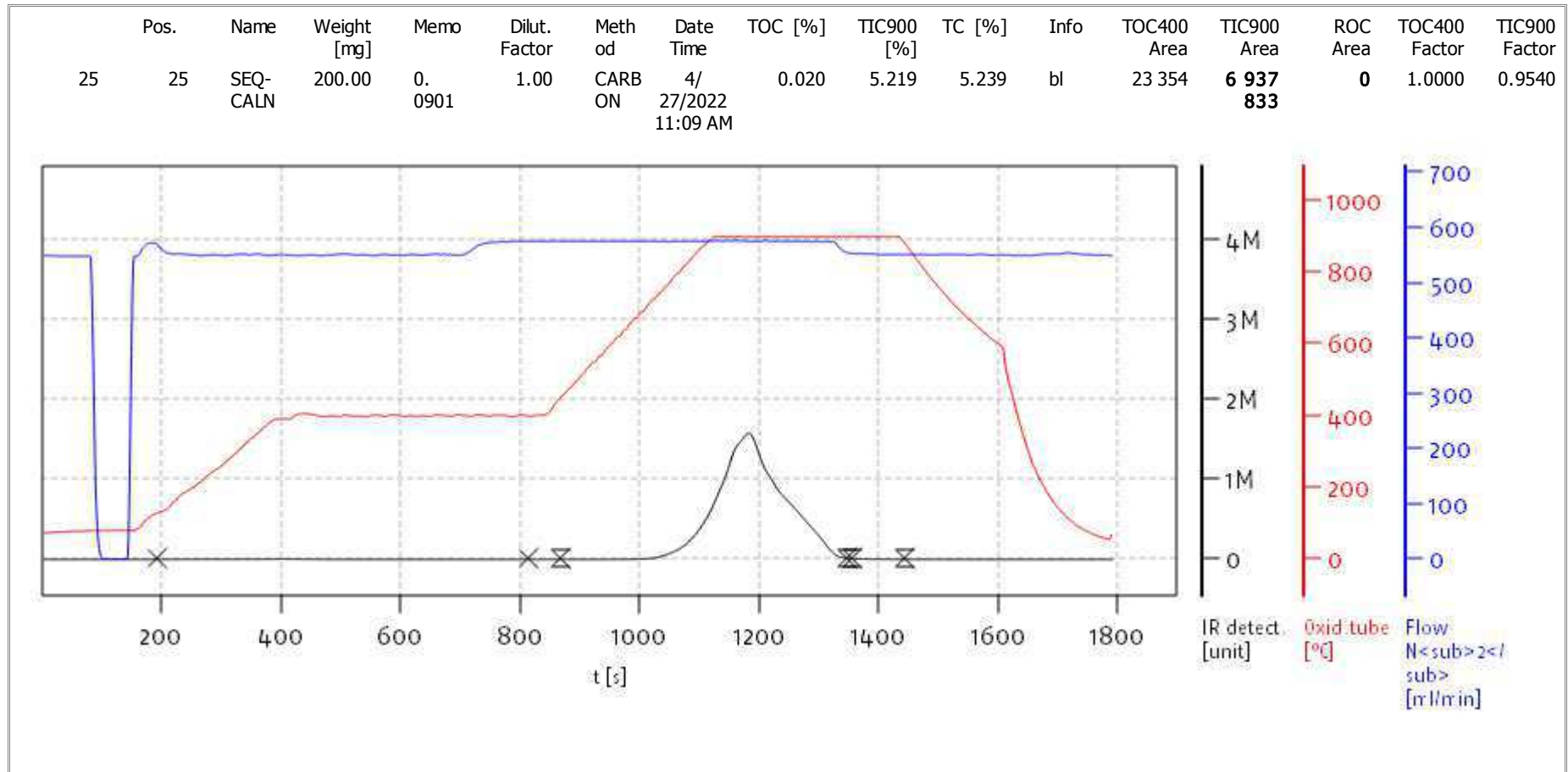
Date: Wed Apr 27 11:10:16 2022



solITOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC



Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE



Name:

Access: solITOC superuser

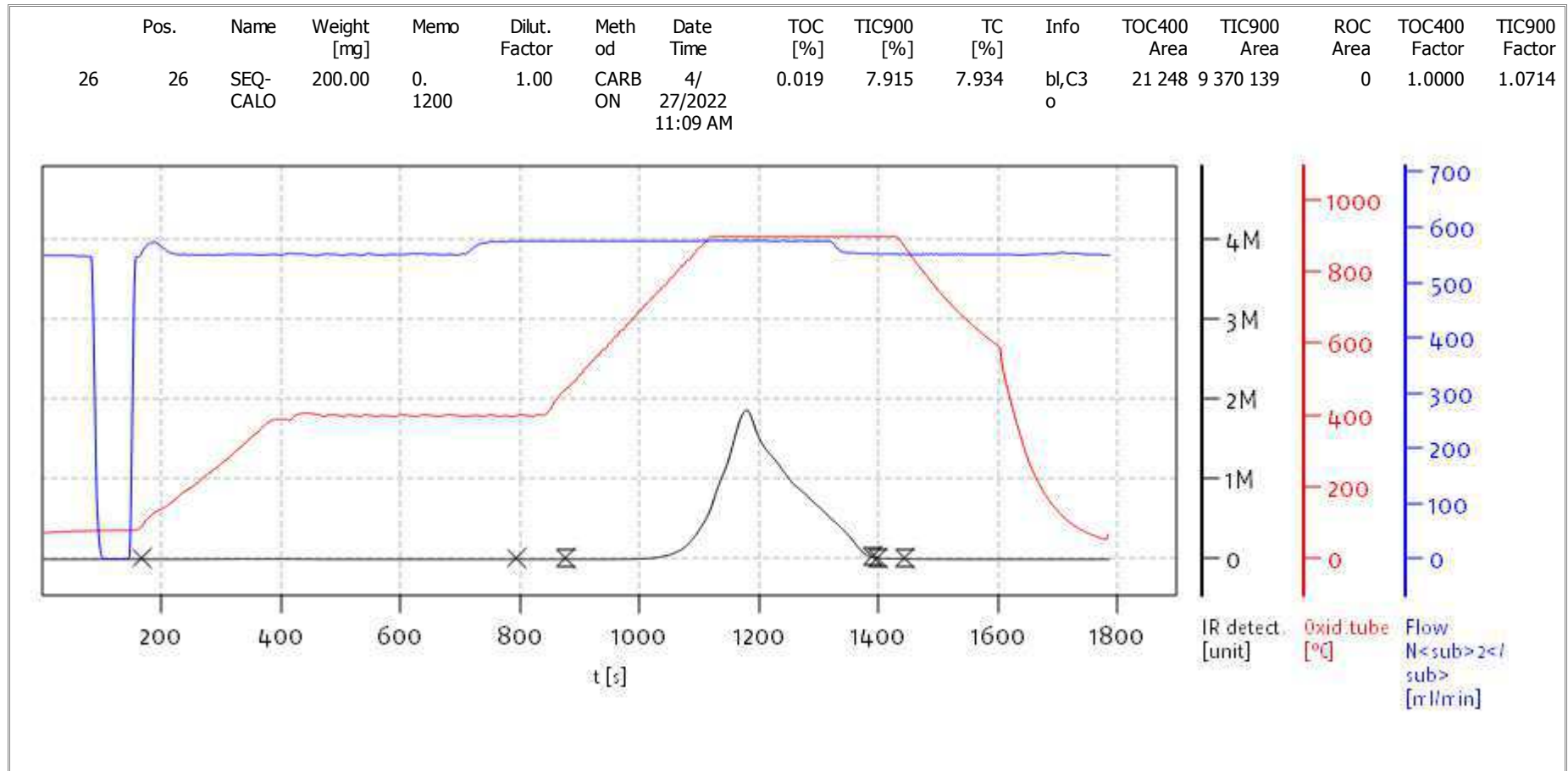
Date: Wed Apr 27 11:10:16 2022



solITOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC



Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE



Name:

Access: solITOC superuser

Date: Wed Apr 27 11:10:16 2022

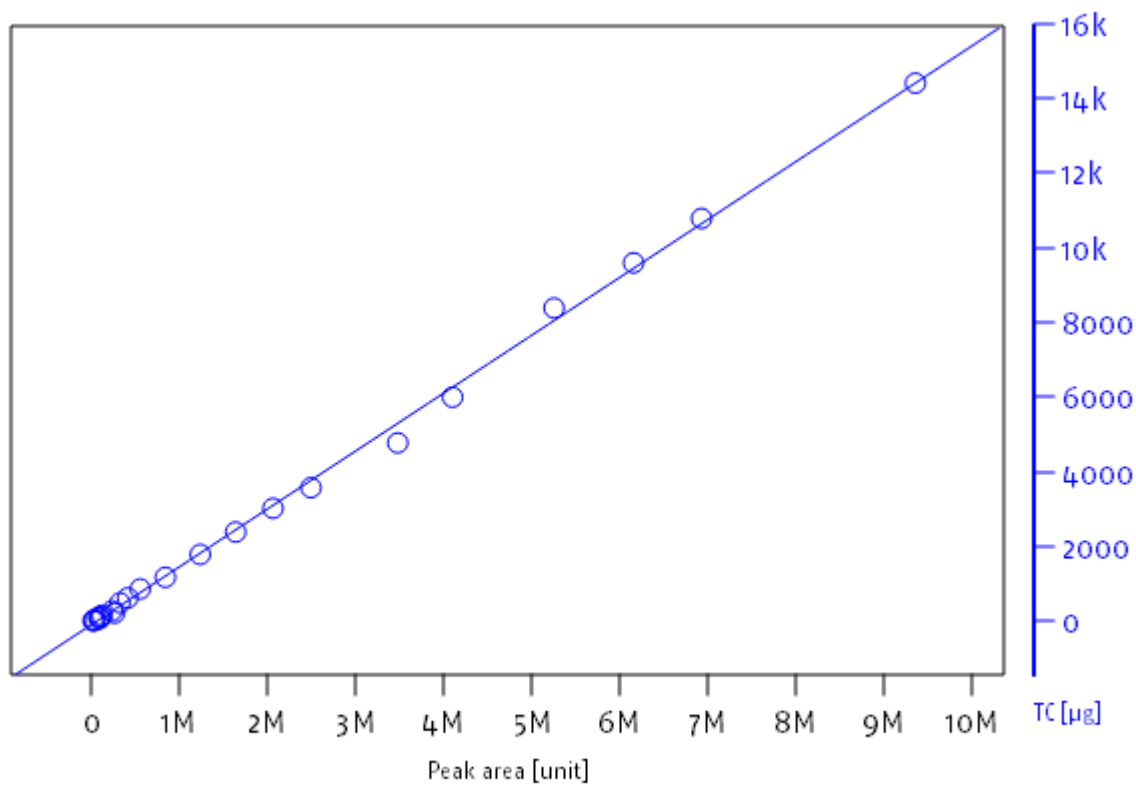


solITOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Calibration parameters TC, Whole range

| | |
|----------|---------------|
| a | -4.107546e-02 |
| b | +1.548032e-06 |
| c | +0.000000e+00 |
| d | +0.000000e+00 |
| e | +0.000000e+00 |
| r | 0.998372 |
| r_old | 0.998372 |
| Proc.-SD | 166.070255 µg |

Calibration graph TC, Whole range



Name:

Access: solITOC superuser

Date: Wed Apr 27 11:19:56 2022



solITOC V2.0.2 (31015f9) 2018-11-19
 Serial No: 0300.181017
 Mode CCC



INSTRUMENT BLANKS
EPA 9060A m

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: TOC Cube

Calibration: FD00070

Sequence: SKD0371

Date Analyzed: 04/27/22 02:33

| Lab Sample ID | Analyte | Found | MDL | MRL | Units | C |
|---------------|----------------------|-------|------|------|-------|---|
| SKD0371-ICB1 | Total Organic Carbon | 0.00 | 0.02 | 0.02 | % | |



INSTRUMENT BLANKS
EPA 9060A m

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: TOC Cube

Calibration: FD00070

Sequence: SLA0114

Date Analyzed: 01/12/23 10:00

| Lab Sample ID | Analyte | Found | MDL | MRL | Units | C |
|---------------|----------------------|-------|------|------|-------|---|
| SLA0114-ICB1 | Total Organic Carbon | 0.00 | 0.02 | 0.02 | % | |
| SLA0114-CCB1 | Total Organic Carbon | 0.00 | 0.02 | 0.02 | % | |
| SLA0114-CCB2 | Total Organic Carbon | 0.00 | 0.02 | 0.02 | % | |
| SLA0114-CCB3 | Total Organic Carbon | 0.00 | 0.02 | 0.02 | % | |
| SLA0114-CCB4 | Total Organic Carbon | 0.00 | 0.02 | 0.02 | % | |
| SLA0114-CCB5 | Total Organic Carbon | 0.00 | 0.02 | 0.02 | % | |
| SLA0114-CCB6 | Total Organic Carbon | 0.00 | 0.02 | 0.02 | % | |
| SLA0114-CCB7 | Total Organic Carbon | 0.00 | 0.02 | 0.02 | % | |
| SLA0114-CCB8 | Total Organic Carbon | 0.00 | 0.02 | 0.02 | % | |
| SLA0114-CCB9 | Total Organic Carbon | 0.00 | 0.02 | 0.02 | % | |
| SLA0114-CCBA | Total Organic Carbon | 0.00 | 0.02 | 0.02 | % | |
| SLA0114-CCBB | Total Organic Carbon | 0.00 | 0.02 | 0.02 | % | |



**INITIAL AND CONTINUING
CALIBRATION CHECK**
EPA 9060A m

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: TOC Cube

Calibration: FD00070

Control Limit: +/- 10.00%

Sequence: SKD0371

| Lab Sample ID | Analyte | True | Found | %R | Units | Method |
|---------------|------------------------|--------|-------|------|-------|-------------|
| SKD0371-ICV1 | Total Organic Carbon | 44.446 | 43.7 | 98.3 | % | EPA 9060A m |
| | Total Carbon | 44.446 | 44.1 | 99.2 | % | EPA 9060A m |
| | Total Inorganic Carbon | 0.0000 | 0.40 | | % | EPA 9060A m |
| | % Soot | 0.0000 | 0.004 | | % | EPA 9060A m |

* Values outside of QC limits



**INITIAL AND CONTINUING
CALIBRATION CHECK
EPA 9060A m**

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: TOC Cube

Calibration: FD00070

Control Limit: +/- 10.00%

Sequence: SLA0114

| Lab Sample ID | Analyte | True | Found | %R | Units | Method |
|---------------|----------------------|--------|-------|------|-------|-------------|
| SLA0114-ICV1 | Total Organic Carbon | 44.446 | 46.1 | 104 | % | EPA 9060A m |
| SLA0114-CCV1 | Total Organic Carbon | 44.446 | 45.4 | 102 | % | EPA 9060A m |
| SLA0114-CCV2 | Total Organic Carbon | 44.446 | 45.3 | 102 | % | EPA 9060A m |
| SLA0114-CCV3 | Total Organic Carbon | 44.446 | 45.1 | 102 | % | EPA 9060A m |
| SLA0114-CCV4 | Total Organic Carbon | 44.446 | 43.7 | 98.2 | % | EPA 9060A m |
| SLA0114-CCV5 | Total Organic Carbon | 44.446 | 44.0 | 98.9 | % | EPA 9060A m |
| SLA0114-CCV6 | Total Organic Carbon | 44.446 | 44.1 | 99.2 | % | EPA 9060A m |
| SLA0114-CCV7 | Total Organic Carbon | 44.446 | 44.4 | 99.9 | % | EPA 9060A m |
| SLA0114-CCV8 | Total Organic Carbon | 44.446 | 45.3 | 102 | % | EPA 9060A m |
| SLA0114-CCV9 | Total Organic Carbon | 44.446 | 45.0 | 101 | % | EPA 9060A m |
| SLA0114-CCVA | Total Organic Carbon | 44.446 | 44.1 | 99.2 | % | EPA 9060A m |
| SLA0114-CCVB | Total Organic Carbon | 44.446 | 44.5 | 100 | % | EPA 9060A m |

* Values outside of QC limits



STANDARD REFERENCE MATERIAL RECOVERY

EPA 9060A m

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Matrix: Solid

Laboratory ID: BLA0254-SRM1

Batch: BLA0254

Initial/Final: 0.2849 g / 0.2849 g

Preparation: Plumb 1981

Analyzed: 01/13/2023 21:36

Standard ID: K011789

Expires: 12/24/2023

Standard Lot#: NA

Description: 1941B - Organics in Marine Sediment (Conv

| ANALYTE | TRUE (% wet) | FOUND (% wet) | MDL | MRL | Q | SRM % REC. | QC LIMITS REC. |
|----------------------|-----------------|------------------|------|------|---|------------------|----------------------|
| Total Organic Carbon | 2.9900 | 2.97 | 0.02 | 0.02 | | 99.3 | 80 - 120 |

* Values outside of QC limits



HOLDING TIME SUMMARY

Analysis: EPA 9060A m

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

| Sample Name | Date Collected | Date Received | Date Prepared | Days to Prep | Max Days to Prep | Date Analyzed | Days to Analysis | Max Days to Analysis | Q |
|-------------------------------|-------------------|-------------------|-------------------|--------------|------------------|-------------------|------------------|----------------------|---|
| LDW23-SC1164 23A0180-01 | 01/10/23 08:05 | 01/10/23 17:10 | 01/12/23 08:50 | 2 | 180 | 01/14/23 02:42 | | | |
| LDW23-SC1164-FD 23A0180-02 | 01/10/23 08:05 | 01/10/23 17:10 | 01/12/23 08:50 | 2 | 180 | 01/14/23 03:12 | | | |
| LDW23-SC1158 23A0180-03 | 01/10/23 08:33 | 01/10/23 17:10 | 01/12/23 08:50 | 2 | 180 | 01/14/23 03:43 | | | |
| LDW23-SC1151 23A0180-04 | 01/10/23 09:07 | 01/10/23 17:10 | 01/12/23 08:50 | 1 | 180 | 01/14/23 05:14 | | | |
| LDW23-SC1145 23A0180-05 | 01/10/23 09:39 | 01/10/23 17:10 | 01/12/23 08:50 | 1 | 180 | 01/14/23 05:45 | | | |
| LDW23-SC1139 23A0180-06 | 01/10/23 10:10 | 01/10/23 17:10 | 01/12/23 08:50 | 1 | 180 | 01/14/23 06:15 | | | |
| LDW23-SC1066 23A0180-07 | 01/10/23 11:08 | 01/10/23 17:10 | 01/12/23 08:50 | 1 | 180 | 01/14/23 06:45 | | | |
| LDW23-SC1061 23A0180-08 | 01/10/23 10:45 | 01/10/23 17:10 | 01/12/23 08:50 | 1 | 180 | 01/14/23 07:16 | | | |
| LDW23-SC1117 23A0180-09 | 01/10/23 11:35 | 01/10/23 17:10 | 01/12/23 08:50 | 1 | 180 | 01/14/23 07:46 | | | |
| LDW23-SC1093 23A0180-10 | 01/10/23 12:26 | 01/10/23 17:10 | 01/12/23 08:50 | 1 | 180 | 01/14/23 08:16 | | | |
| LDW23-SC1094 23A0180-11 | 01/10/23 12:51 | 01/10/23 17:10 | 01/12/23 08:50 | 1 | 180 | 01/14/23 11:18 | | | |
| LDW23-SC1103 23A0180-12 | 01/10/23 13:23 | 01/10/23 17:10 | 01/12/23 08:50 | 1 | 180 | 01/14/23 11:49 | | | |
| LDW23-SC1100 23A0180-13 | 01/10/23 13:53 | 01/10/23 17:10 | 01/12/23 08:50 | 1 | 180 | 01/14/23 12:19 | | | |
| LDW23-SC1101 23A0180-14 | 01/10/23 14:13 | 01/10/23 17:10 | 01/12/23 08:50 | 1 | 180 | 01/14/23 12:50 | | | |
| LDW23-SC1096 23A0180-15 | 01/10/23 15:24 | 01/10/23 17:10 | 01/12/23 08:50 | 1 | 180 | 01/14/23 13:20 | | | |

* Indicates hold time exceedance.



Analytical Resources, LLC
Analytical Chemists and Consultants

METHOD DETECTION AND REPORTING LIMITS

EPA 9060A m

Laboratory: Analytical Resources, LLC

SDG: 23A0180

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Matrix: Solid

Instrument: TOC Cube

| Analyte | MDL | RL | Units |
|----------------------|------------|-----------|--------------|
| Total Organic Carbon | 0.02 | 0.02 | % |



National Institute of Standards & Technology

Certificate of Analysis

Standard Reference Material® 1941b

Organics in Marine Sediment

This Standard Reference Material (SRM) is marine sediment collected at the mouth of the Baltimore (MD) Harbor. SRM 1941b is intended for use in evaluating analytical methods for the determination of selected polycyclic aromatic hydrocarbons (PAHs), polychlorinated biphenyl (PCB) congeners, and chlorinated pesticides in marine sediment and similar matrices. Information values are also provided for total organic carbon (TOC), total carbon, hydrogen, and nitrogen. All of the constituents for which certified, reference, and information values are provided in SRM 1941b were naturally present in the sediment before processing. A unit of SRM 1941b consists of a bottle containing 50 g of radiation-sterilized, freeze-dried sediment.

Certified Mass Fraction Values: Certified mass fraction values for PAHs, PCB congeners, and chlorinated pesticides are provided in Table 1 through Table 3. The certified values for the PAHs, PCB congeners, and chlorinated pesticides are based on the agreement of results obtained at NIST from two or more chemically independent analytical techniques along with results from an interlaboratory comparison study [1]. A NIST certified value is a value for which NIST has the highest confidence in its accuracy in that all known or suspected sources of bias have been investigated or taken into account [1].

Reference Mass Fraction Values: Reference mass fraction values for additional PAHs (some in combination), additional PCB congeners, and additional chlorinated pesticides are provided in Table 4 through Table 7. Reference values for alkylated PAH groups are provided in Table 8 and for selected hopanes and steranes in Table 9. A reference value for total organic carbon is provided in Table 10. Reference values are noncertified values that are the best estimate of the true value; however, the values do not meet the NIST criteria for certification and are provided with associated uncertainties that may reflect only measurement precision, may not include all sources of uncertainty, or may reflect a lack of sufficient statistical agreement among multiple analytical methods [1].

Information Mass Fraction Values: Information mass fraction values are provided in Table 11 for carbon, hydrogen, and nitrogen. An information value is considered to be a value that will be of use to the SRM user, but insufficient information is available to assess the uncertainty associated with the value [1]. Information values cannot be used to establish metrological traceability.

Expiration of Certification: The certification of SRM 1941b is valid, within the measurement uncertainty specified, until **01 October 2020**, provided the SRM is handled and stored in accordance with the instructions given in this certificate (see "Instructions for Handling, Storage, and Use"). This certification is nullified if the SRM is damaged, contaminated, or otherwise modified.

Maintenance of SRM Certification: NIST will monitor this SRM over the period of its certification. If substantive technical changes occur that affect the certification before the expiration of this certificate, NIST will notify the purchaser. Registration (see attached sheet or register online) will facilitate notification.

Coordination of the technical measurements leading to the certification of this material was under the leadership of M.M. Schantz and S.A. Wise of the NIST Chemical Sciences Division.

Analytical measurements for the certification of SRM 1941b were performed at NIST by J.R. Kucklick, B.J. Porter, D.L. Poster, M.M. Schantz, P. Schubert, S. Tutschku, and L.L. Yu of the NIST Chemical Sciences Division.

Carlos A. Gonzalez, Chief
Chemical Sciences Division

Measurements for TOC were provided by a commercial laboratory and T.L. Wade of the Geochemical and Environmental Research Group, Texas A&M University (College Station, TX). The carbon, hydrogen, and nitrogen data were provided by a commercial laboratory. Results for the PAHs, PCBs, and chlorinated pesticides from 38 laboratories (see Appendix A) that participated in an interlaboratory comparison exercise coordinated by NIST were used. Results for the alkylated PAH groups, hopanes, and steranes from 33 laboratories (see Appendix B) that participated in another interlaboratory comparison exercise coordinated by NIST were also used.

Collection and preparation of SRM 1941b were performed by M.P. Cronise and C.N. Fales of the NIST Office of Reference Materials and B.J. Porter and M.M. Schantz of the NIST Chemical Sciences Division. The sediment material was collected with the assistance of G.G. Lauenstein, J. Collier, and J. Lewis (National Oceanic and Atmospheric Administration, Silver Spring, MD).

Consultation on the statistical design of the experimental work and evaluation of the data were provided by S.D. Leigh and J.H. Yen of the NIST Statistical Engineering Division.

Support aspects involved in the issuance of this SRM were coordinated through the NIST Office of Reference Materials.

INSTRUCTIONS FOR HANDLING, STORAGE, AND USE

Handling: This material is naturally occurring marine sediment from an urban area and may contain constituents of unknown toxicities; therefore, caution and care should be exercised during its handling and use.

Storage: SRM 1941b must be stored in its original bottle at temperatures less than 30 °C and away from direct sunlight.

Use: Prior to removal of subsamples for analysis, the contents of the bottle should be mixed. The mass fractions of constituents in SRM 1941b are reported on a dry-mass basis. The SRM, as received, contains a mass fraction of approximately 2.4 % moisture (see "Conversion to Dry-Mass Basis"). The sediment sample should be dried to a constant mass before weighing for analysis; or a separate subsample of the sediment should be removed from the bottle at the time of analysis and dried to determine the mass fraction on a dry-mass basis. If the constituents of interest are volatile, then the moisture must be determined with a separate subsample.

PREPARATION AND ANALYSIS⁽¹⁾

Sample Collection and Preparation: The sediment used to prepare this SRM was collected from the Chesapeake Bay at the mouth of the Baltimore (MD) Harbor near the Francis Scott Key Bridge (39°12.3'N and 76°31.4'W). This location is very near the site where SRM 1941 and SRM 1941a were collected. The sediment was collected using a Kynar-coated modified Van Veen-type grab sampler. A total of approximately 3300 kg of wet sediment was collected from the site. The sediment was freeze-dried, sieved at 150 µm (100 % passing), homogenized in a cone blender, radiation sterilized (⁶⁰Co), and then packaged in screw-capped amber glass bottles each containing approximately 50 g.

Conversion to Dry-Mass Basis: The results for the constituents in SRM 1941b are reported on a dry-mass basis; however, the material "as received" contains residual moisture. The amount of moisture in SRM 1941b was determined by measuring the mass loss after freeze-drying subsamples of 1.1 g to 1.3 g for four days at 1 Pa with a -10 °C shelf temperature and a -50 °C condenser temperature. The moisture content in SRM 1941b at the time of the certification analyses was 2.39 % ± 0.08 % (95 % confidence level). Analytical results for the organic constituents were determined on an as-received basis and then converted to a dry-mass basis by dividing by the conversion factor of 0.9761 (gram dry mass per gram as-received mass).

Polycyclic Aromatic Hydrocarbons: The general approach used for the value assignment of the PAHs in SRM 1941b was similar to that reported in detail elsewhere [2]. The approach consisted of combining results from analyses using various combinations of different extraction techniques and solvents, clean-up/isolation procedures, and chromatographic separation and detection techniques: Soxhlet extraction and pressurized-fluid extraction (PFE) using dichloromethane (DCM) or a hexane/acetone mixture, cleanup of the extracts using solid-phase extraction (SPE) or normal-phase liquid chromatography (LC), followed by analysis using the following techniques: (1) reversed-phase liquid chromatography with fluorescence detection (LC-FL) analysis of the total PAH fraction, (2) reversed-phase

⁽¹⁾ Certain commercial equipment, instruments or materials are identified in this certificate to adequately specify the experimental procedure. Such identification does not imply recommendation or endorsement by the National Institute of Standards and Technology.

LC-FL analysis of isomeric PAH fractions isolated by normal-phase LC (i.e., multidimensional LC), (3) gas chromatography/mass spectrometry (GC/MS) analysis of the PAH fraction on three stationary phases of different selectivity, i.e., a 5 % (all column compositions are given as mole fractions in %) phenyl-substituted methylpolysiloxane phase, a 50 % phenyl-substituted methylpolysiloxane phase, and a relatively non-polar proprietary phase.

Three sets of GC/MS results, designated as GC/MS (I), GC/MS (II), and GC/MS (III), were obtained using three columns with different selectivities for the separation of PAHs. For GC/MS (I) analyses, duplicate subsamples of approximately 1 g from ten bottles of SRM 1941b were extracted using PFE with DCM. Copper powder was added to the extract to remove elemental sulfur. The concentrated extract was passed through an aminopropyl SPE cartridge and eluted with 2 % DCM in hexane (all solvent concentrations are given as volume fractions in %). The processed extract was then analyzed by GC/MS using a 0.25 mm i.d. × 60 m fused silica capillary column with a 5 % phenyl-substituted methylpolysiloxane phase (0.25 μm film thickness; DB-5 MS, J&W Scientific, Folsom, CA). The GC/MS (II) analyses were performed using 5 g subsamples from six bottles of SRM 1941b. These samples were extracted using PFE with DCM. The high molecular mass compounds were removed from the extracts using size exclusion chromatography (SEC) with a preparative-scale divinylbenzene-polystyrene column (10 μm particle size with 10 nm diameter pores), and the sulfur was removed from the extracts by adding copper powder. The concentrated extract was passed through an aminopropyl SPE cartridge and eluted with 10 % DCM in hexane. The analysis was by GC/MS using a 0.25 mm i.d. × 60 m fused silica capillary column with a 50 % phenyl-substituted methylpolysiloxane phase (0.25 μm film thickness; DB-17 MS, J&W Scientific). For the GC/MS (III), 9 g subsamples from six bottles of SRM 1941b were Soxhlet-extracted for 18 h with 250 mL of a mixture of 50 % hexane/50 % acetone. Copper powder was added to the extract to remove elemental sulfur, and the concentrated extract was passed through a silica SPE cartridge and eluted with 10 % DCM in hexane. The processed extract was then analyzed by GC/MS using a 0.25 mm i.d. × 60 m fused silica capillary column with a relatively non-polar proprietary phase (0.25 μm film thickness; DB-XLB, J&W Scientific).

Two sets of LC-FL results, designated as LC-FL (total) and LC-FL (isomer), were used in the certification process. For the LC-FL (total), subsamples of approximately 1 g from six bottles of SRM 1941b were extracted using PFE with a mixture of 50 % hexane/50 % acetone. The extracts were concentrated and then processed through an aminopropylsilane SPE cartridge using 2 % DCM in hexane to obtain the total PAH fraction. For the LC-FL (isomer), a 5 g subsample from the six bottles was extracted using PFE with DCM and processed through an aminopropylsilane SPE cartridge using 10 % DCM in hexane; the PAH fraction was then fractionated further on a semi-preparative aminopropylsilane column (μBondapak NH₂, 9 mm i.d. × 30 cm, Waters Associates, Milford, MA) to isolate isomeric PAH fractions as described previously [3–6]. The total PAH fraction and the isomeric PAH fractions were analyzed using a 5 μm particle-size polymeric octadecylsilane (C₁₈) column (4.6 mm i.d. × 25 cm, Hypersil-PAH, Keystone Scientific, Inc., Bellefonte, PA) with wavelength-programmed fluorescence detection [4,5].

For the GC/MS and LC-FL measurements described above, selected perdeuterated PAHs were added to the sediment prior to solvent extraction for use as internal standards for quantification purposes.

In addition to the analyses performed at NIST, SRM 1941b was used in an interlaboratory comparison exercise in 1999 as part of the NIST Intercomparison Exercise Program for Organic Contaminants in the Marine Environment [7]. Results from 38 laboratories that participated in this exercise were used as the sixth data set in the determination of the certified values for PAHs in SRM 1941b. The laboratories participating in this exercise used the analytical procedures routinely used in their laboratories to measure the analytes of interest.

Homogeneity Assessment for PAHs: The homogeneity of SRM 1941b was assessed by analyzing duplicate samples of approximately 1 g from ten bottles selected by stratified random sampling. Samples were extracted, processed, and analyzed as described above for GC/MS (I). No statistically significant differences among bottles were observed for the PAHs at this sample size.

PAH Isomers of Molecular Mass 300 and 302: For the determination of the molecular mass 300 and 302 isomers, three subsamples of approximately 5 g each were extracted using PFE with DCM. The extracts were then concentrated with a solvent change to hexane and passed through an aminopropyl SPE cartridge and eluted with 10 % DCM in hexane. The processed extract was then analyzed by GC/MS using a 0.25 mm i.d. × 60 m fused silica capillary column with a 50 % phenyl-substituted methylpolysiloxane phase (0.25 μm film thickness; DB-17MS, J&W Scientific). Perdeuterated dibenzo[*a,i*]pyrene was added to the sediment prior to extraction for use as an internal standard [8].

PCBs and Chlorinated Pesticides: The general approach used for the determination of PCBs and chlorinated pesticides in SRM 1941b consisted of combining results from analyses using various combinations of different extraction techniques and solvents, cleanup/isolation procedures, and chromatographic separation and detection techniques. Techniques and solvents included Soxhlet extraction and PFE using DCM or a hexane/acetone mixture.

clean-up/isolation using SPE or LC, followed by analysis using GC/MS and gas chromatography with electron capture detection (GC-ECD) on two columns with different selectivity for the separation of PCBs and chlorinated pesticides. The analytical methods are described in detail elsewhere [2].

Six sets of results were obtained and designated as GC-ECD (I) A and B, GC/MS (I) A and B, GC/MS (II), and Interlaboratory Comparison Exercise. For the GC-ECD (I) analyses, approximately 10 g subsamples from six bottles of SRM 1941b were extracted using PFE with DCM. Copper powder was added to the extract to remove elemental sulfur, and SEC, as described above, was used to remove the high molecular mass compounds. The concentrated extract was then fractionated on a semi-preparative aminopropylsilane column to isolate two fractions containing: (1) the PCBs and lower-polarity pesticides and (2) the more polar pesticides. GC-ECD analyses of the two fractions were performed on two columns of different selectivities for PCB separations: 0.25 mm × 60 m fused silica capillary column with a 5 % phenyl-substituted methylpolysiloxane phase (0.25 μm film thickness; DB-5, J&W Scientific), and a 0.25 mm × 60 m fused silica capillary column with a non-polar proprietary phase (0.25 μm film thickness; DB-XLB, J&W Scientific). The results from the 5 % phenyl phase are designated as GC-ECD (IA) and the results from the proprietary phase are designated as GC-ECD (IB). For the GC-ECD analyses, two PCB congeners that are not significantly present in the sediment extract (PCB 103 and PCB 198 [9,10]) and endosulfan I-*d*₄, 4,4'-DDE-*d*₈, 4,4'-DD-*d*₈, and 4,4'-DDT-*d*₈ were added to the sediment prior to extraction for use as internal standards for quantification purposes.

Two sets of results were obtained by GC/MS. For GC/MS (I), approximately 9 g subsamples from six bottles were Soxhlet- extracted with a mixture of 50 % hexane/50 % acetone for approximately 18 h. Copper powder was added to the extract to remove elemental sulfur, and the concentrated extract was passed through a silica SPE cartridge and eluted with 10 % DCM in hexane. The processed extract was then analyzed by GC/MS with two ionization modes, electron impact (EI) and negative ion chemical ionization (NICI). The GC/MS EI method, GC/MS (IA), used a 0.25 mm i.d. × 60 m fused silica capillary column with a relatively non-polar proprietary phase (0.25 μm film thickness; DB-XLB, J&W Scientific). The GC/MS NICI method, GC/MS (IB), used a 0.25 mm i.d. × 60 m fused silica capillary column with a 5 % phenyl-substituted methylpolysiloxane phase (0.25 μm film thickness; DB-5MS, J&W Scientific). The GC/MS (II) results were obtained in the same manner as the GC/MS (IA) analyses except that three subsamples were Soxhlet-extracted with DCM for approximately 18 h. For the GC/MS analyses, selected carbon-13 labeled PCB congeners and chlorinated pesticides were added to the sediment prior to extraction for use as internal standards for quantification purposes.

In addition to the analyses performed at NIST, SRM 1941b was used in an interlaboratory comparison exercise in 1999 as part of the NIST Intercomparison Exercise Program for Organic Contaminants in the Marine Environment [7]. Results from 38 laboratories that participated in this exercise were used as the sixth data set in the determination of the certified values for PCB congeners and chlorinated pesticides in SRM 1941b. The laboratories participating in this exercise used the analytical procedures routinely used in their laboratories to measure the analytes of interest.

The reference value for PCB 77 was determined from a separate fraction. The samples were extracted and processed as for GC-ECD (I) above. The first (PCB and lower-polarity pesticide) fraction from the semi-preparative aminopropylsilane column was further fractionated using a Cosmosil PYE (pyrenylethyl group bonded) column (5 μm particle size, 4.6 mm i.d. × 25 cm; Phenomenex, Torrance, CA) [11]. Three fractions were collected: the first fraction contained the pesticides and multi-*ortho* PCBs, the second fraction contained the polychlorinated naphthalenes, non-*ortho* PCB congeners, and some mono-*ortho* PCB congeners, and the third fraction removed the residual planar compounds from the column. The second fraction was analyzed by GC/MS NICI using the same column as GC/MS (IB) above. Carbon-13 labeled PCB 77 was used as an internal standard for quantification purposes.

Alkylated PAH Groups, Hopanes, and Steranes: SRM 1941b was used in an interlaboratory comparison exercise in 2011 [12]. Results from 33 laboratories that participated in this exercise were used in the determination of the reference values for alkylated PAH groups, hopanes, and steranes in SRM 1941b. Note that not all laboratories returned data for each analyte. The laboratories participating in this exercise used the analytical procedures routinely used in their laboratories to measure the analytes of interest. For the alkylated PAHs, the majority of the laboratories (>90 %) used the parent PAH for determination of the response factor for the corresponding alkylated group.

Total Organic Carbon (TOC): Two laboratories provided results for TOC using similar procedures. Briefly, subsamples of approximately 200 mg were reacted with 6 mol/L hydrochloric acid and rinsed with deionized water prior to combustion in a gas fusion furnace. The carbon monoxide and carbon dioxide produced were measured and compared to a blank for calculation of the percent TOC. Each laboratory analyzed subsamples from three bottles of SRM 1941b. One of the laboratories also analyzed three subsamples from three bottles of SRM 1941b for carbon, hydrogen, and nitrogen.

Table 1. Certified Mass Fraction Values for PAHs in SRM 1941b

| PAHs | Mass Fractions ^(a) ($\mu\text{g}/\text{kg}$) | |
|--|--|-----------------|
| Naphthalene ^(b,c,d,e,f,g) | 848 | $\pm 95^{(h)}$ |
| Fluorene ^(b,c,d,e,f,g) | 85 | $\pm 15^{(h)}$ |
| Phenanthrene ^(b,c,d,e,f,g) | 406 | $\pm 44^{(h)}$ |
| Anthracene ^(b,c,d,e,f,g) | 184 | $\pm 18^{(h)}$ |
| 3-Methylphenanthrene ^(b,c,d) | 105 | $\pm 13^{(h)}$ |
| 2-Methylphenanthrene ^(b,c,d) | 128 | $\pm 14^{(h)}$ |
| 1-Methylphenanthrene ^(b,c,d,g) | 73.2 | $\pm 5.9^{(h)}$ |
| Fluoranthene ^(b,c,d,e,f,g) | 651 | $\pm 50^{(h)}$ |
| Pyrene ^(b,c,d,e,f,g) | 581 | $\pm 39^{(h)}$ |
| Benz[<i>a</i>]anthracene ^(b,c,d,e,f,g) | 335 | $\pm 25^{(h)}$ |
| Chrysene ^(d,f) | 291 | $\pm 31^{(h)}$ |
| Triphenylene ^(d,f) | 108 | $\pm 5^{(i)}$ |
| Benzo[<i>b</i>]fluoranthene ^(c,e) | 453 | $\pm 21^{(h)}$ |
| Benzo[<i>k</i>]fluoranthene ^(b,c,d,e) | 225 | $\pm 18^{(h)}$ |
| Benzo[<i>e</i>]pyrene ^(b,c,d,g) | 325 | $\pm 25^{(h)}$ |
| Benzo[<i>a</i>]pyrene ^(b,c,d,f,g) | 358 | $\pm 17^{(h)}$ |
| Perylene ^(b,c,d,f,g) | 397 | $\pm 45^{(h)}$ |
| Benzo[<i>ghi</i>]perylene ^(b,c,d,f,g) | 307 | $\pm 45^{(h)}$ |
| Indeno[1,2,3- <i>cd</i>]pyrene ^(b,c,d,f,g) | 341 | $\pm 57^{(h)}$ |
| Dibenz[<i>a,j</i>]anthracene ^(b,c,d,f) | 48.9 | $\pm 4.6^{(h)}$ |
| Dibenz[<i>a,c</i>]anthracene ^(c,f) | 36.7 | $\pm 5.2^{(h)}$ |
| Dibenz[<i>a,h</i>]anthracene ^(c,f) | 53 | $\pm 10^{(h)}$ |
| Benzo[<i>b</i>]chrysene ^(b,c,d,f) | 53 | $\pm 12^{(h)}$ |
| Picene ^(b,c,d) | 46.6 | $\pm 4.7^{(h)}$ |

^(a) Mass fractions reported on dry-mass basis; material as received contains approximately 2.4 % moisture.

^(b) GC/MS (I) on 5 % phenyl-substituted methylpolysiloxane phase after PFE with DCM.

^(c) GC/MS (II) on 50 % phenyl-substituted methylpolysiloxane phase after PFE with DCM.

^(d) GC/MS (III) on a relatively non-polar proprietary phase after Soxhlet extraction with 50 % hexane/50 % acetone mixture.

^(e) LC-FL (total) of total PAH fraction after PFE with DCM.

^(f) LC-FL (isomer) of isomeric PAH fractions after PFE with DCM.

^(g) 1999 Interlaboratory Comparison Study [7] with 21 to 29 laboratories submitting data for each PAH.

^(h) Certified values are weighted means of the results from two to six analytical methods [13]. The uncertainty listed with each value is an expanded uncertainty about the mean, with coverage factor 2 (approximately 95 % confidence), calculated by combining a between-method variance incorporating inter-method bias with a pooled within-method variance following the ISO/JCGM Guide [14,15]. The measurand is the total mass fraction of the constituent listed and the values are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.

⁽ⁱ⁾ The certified value is an unweighted mean of the results from two analytical methods. The uncertainty listed with the value is an expanded uncertainty about the mean, with coverage factor 2, calculated by combining a between-method variance [16] with a pooled, within-method variance following the ISO/JCGM Guide [14,15]. The measurand is the total mass fraction of the constituent listed and the value is metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.

Table 2. Certified Mass Fraction Values for PCB Congeners^(a) in SRM 1941b

| PCB Congeners | | Mass Fractions ^(b) ($\mu\text{g}/\text{kg}$) |
|---------------|---|--|
| PCB | 8 (2,4'-Dichlorobiphenyl) ^(c,d,e,f,g) | 1.65 \pm 0.19 ^(h) |
| PCB | 18 (2,2',5-Trichlorobiphenyl) ^(c,d,e,f,g) | 2.39 \pm 0.29 ^(h) |
| PCB | 28 (2,4,4'-Trichlorobiphenyl) ^(c,d,e,f,g) | 4.52 \pm 0.57 ^(h) |
| PCB | 31 (2,4',5-Trichlorobiphenyl) ^(c,e,f) | 3.18 \pm 0.41 ^(h) |
| PCB | 44 (2,2'3,5'-Tetrachlorobiphenyl) ^(c,d,e,f,g) | 3.85 \pm 0.20 ⁽ⁱ⁾ |
| PCB | 49 (2,2'4,5'-Tetrachlorobiphenyl) ^(c,d,e,f) | 4.34 \pm 0.28 ⁽ⁱ⁾ |
| PCB | 52 (2,2',5,5'-Tetrachlorobiphenyl) ^(c,d,e,f,g) | 5.24 \pm 0.28 ⁽ⁱ⁾ |
| PCB | 66 (2,3',4,4'-Tetrachlorobiphenyl) ^(c,e,f,g,j) | 4.96 \pm 0.53 ⁽ⁱ⁾ |
| PCB | 87 (2,2',3,4,5'-Pentachlorobiphenyl) ^(c,d,f,j) | 1.14 \pm 0.16 ^(h) |
| PCB | 95 (2,2',3,5',6-Pentachlorobiphenyl) ^(c,e,f,g) | 3.93 \pm 0.62 ⁽ⁱ⁾ |
| PCB | 99 (2,2',4,4',5-Pentachlorobiphenyl) ^(c,d,e,f,g) | 2.90 \pm 0.36 ⁽ⁱ⁾ |
| PCB | 101 (2,2',4,5,5'-Pentachlorobiphenyl) ^(c,e,f,g,j) | 5.11 \pm 0.34 ⁽ⁱ⁾ |
| PCB | 105 (2,3,3',4,4'-Pentachlorobiphenyl) ^(c,d,e,f,g,j) | 1.43 \pm 0.10 ⁽ⁱ⁾ |
| PCB | 110 (2,3,3',4',6-Pentachlorobiphenyl) ^(c,e,f,j) | 4.62 \pm 0.36 ⁽ⁱ⁾ |
| PCB | 118 (2,3',4,4',5-Pentachlorobiphenyl) ^(c,d,e,f,g,j) | 4.23 \pm 0.19 ⁽ⁱ⁾ |
| PCB | 128 (2,2',3,3',4,4'-Hexachlorobiphenyl) ^(c,d,e,f,g,j) | 0.696 \pm 0.044 ⁽ⁱ⁾ |
| PCB | 138 (2,2',3,4,4',5'-Hexachlorobiphenyl) ^(c,e,f,j) | 3.60 \pm 0.28 ⁽ⁱ⁾ |
| PCB | 149 (2,2',3,4',5,6-Hexachlorobiphenyl) ^(c,d,e,j) | 4.35 \pm 0.26 ^(h) |
| PCB | 153 (2,2',4,4',5,5'-Hexachlorobiphenyl) ^(c,d,e,f,g,j) | 5.47 \pm 0.32 ⁽ⁱ⁾ |
| PCB | 156 (2,3,3',4,4',5-Hexachlorobiphenyl) ^(c,d,e,f,j) | 0.507 \pm 0.090 ^(h) |
| PCB | 170 (2,2',3,3',4,4',5-Heptachlorobiphenyl) ^(c,d,e,f,g,j) | 1.35 \pm 0.09 ⁽ⁱ⁾ |
| PCB | 180 (2,2',3,4,4',5,5'-Heptachlorobiphenyl) ^(c,d,e,f,g,j) | 3.24 \pm 0.51 ⁽ⁱ⁾ |
| PCB | 183 (2,2',3,4,4',5,6-Heptachlorobiphenyl) ^(c,d,e,j) | 0.979 \pm 0.087 ^(h) |
| PCB | 187 (2,2',3,4',5,5',6-Heptachlorobiphenyl) ^(c,d,e,f,g,j) | 2.17 \pm 0.22 ⁽ⁱ⁾ |
| PCB | 194 (2,2',3,3',4,4',5,5'-Octachlorobiphenyl) ^(c,d,e,j) | 1.04 \pm 0.06 ^(h) |
| PCB | 195 (2,2',3,3',4,4',5,6-Octachlorobiphenyl) ^(c,e,g,j) | 0.645 \pm 0.060 ⁽ⁱ⁾ |
| PCB | 201 (2,2',3,3',4,5',6,6'-Octachlorobiphenyl) ^(c,e,j) | 0.777 \pm 0.034 ^(h) |
| PCB | 206 (2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl) ^(c,e,f,g,j) | 2.42 \pm 0.19 ⁽ⁱ⁾ |
| PCB | 209 Decachlorobiphenyl ^(c,d,e,f,g,j) | 4.86 \pm 0.45 ⁽ⁱ⁾ |

^(a) PCB congeners are numbered according to the scheme proposed by Ballschmiter and Zell [9] and later revised by Schulte and Malisch [10] to conform to IUPAC rules, except PCB 201. Under the Ballschmiter and Zell numbering system, the IUPAC PCB 201 is listed as PCB 200.

^(b) Mass fractions reported on dry-mass basis; material as received contains approximately 2.4 % moisture.

^(c) GC/MS (IA) on a relatively non-polar proprietary phase after Soxhlet extraction with 50 % hexane/50 % acetone mixture.

^(d) GC-ECD (IA) on 5 % phenyl-substituted methylpolysiloxane phase after PFE extraction with DCM.

^(e) GC-ECD (IB) on a relatively non-polar proprietary phase; same extracts analyzed as in GC-ECD (IA).

^(f) GC/MS (II) on a relatively non-polar proprietary phase after Soxhlet extraction with DCM.

^(g) 1999 Interlaboratory Comparison Study [7] with 13 to 31 laboratories submitting data for each PCB congener.

^(h) Certified values are unweighted means of the results from three to five analytical methods. The uncertainty listed with each value is an expanded uncertainty about the mean, with coverage factor 2, calculated by combining a between-method variance [16] with a pooled, within method variance following the ISO/JCGM Guide [14,15]. The measurand is the total mass fraction of the constituent listed and the values are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.

⁽ⁱ⁾ Certified values are weighted means of the results from three to six analytical methods [13]. The uncertainty listed with each value is an expanded uncertainty about the mean, with coverage factor 2 (approximately 95 % confidence), calculated by combining a between-method variance incorporating inter-method bias with a pooled within-method variance following the ISO/JCGM Guide [14,15]. The measurand is the total mass fraction of the constituent listed and the values are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.

^(j) GC/MS (IB) on 5 % phenyl-substituted methylpolysiloxane phase; same extracts analyzed as in GC/MS (IA).

Table 3. Certified Mass Fraction Values for Chlorinated Pesticides in SRM 1941b

| Chlorinated Pesticides | Mass Fractions ^(a) ($\mu\text{g}/\text{kg}$) |
|--|--|
| Hexachlorobenzene ^(b,c,d,e) | 5.83 \pm 0.38 ^(f) |
| <i>cis</i> -Chlordane ^(b,c,d,e,g) | 0.85 \pm 0.11 ^(h) |
| <i>trans</i> -Chlordane ^(b,c,e) | 0.566 \pm 0.093 ^(f) |
| <i>cis</i> -Nonachlor ^(b,e,g) | 0.378 \pm 0.053 ^(h) |
| <i>trans</i> -Nonachlor ^(b,c,d,e,g) | 0.438 \pm 0.073 ^(f) |
| 4,4'-DDE ^(b,d,e,g) | 3.22 \pm 0.28 ^(h) |
| 4,4'-DDD ^(b,d,e,g) | 4.66 \pm 0.46 ^(h) |

^(a) Mass fractions reported on dry-mass basis; material as received contains approximately 2.4 % moisture.

^(b) GC/MS (IA) on a relatively non-polar proprietary phase after Soxhlet extraction with 50 % hexane/50 % acetone mixture.

^(c) GC/MS (IB) on 5 % phenyl-substituted methylpolysiloxane phase; same extracts analyzed as in GC/MS (IA).

^(d) GC/MS (II) on a relatively non-polar proprietary phase after Soxhlet extraction with DCM.

^(e) 1999 Interlaboratory Comparison Study [7] with 13 to 31 laboratories submitting data for each pesticide.

^(f) Certified values are unweighted means of the results from three to five analytical methods. The uncertainty listed with each value is an expanded uncertainty about the mean, with coverage factor 2, calculated by combining a between-method variance [16] with a pooled, within-method variance following the ISO/JCGM Guide [14,15]. The measurand is the total mass fraction of the constituent listed and the values are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.

^(g) GC-ECD (IA) on 5 % phenyl-substituted methylpolysiloxane phase after PFE extraction with DCM.

^(h) Certified values are weighted means of the results from three to five analytical methods [13]. The uncertainty listed with each value is an expanded uncertainty about the mean, with coverage factor 2 (approximately 95 % confidence), calculated by combining a between-method variance incorporating inter-method bias with a pooled within-method variance following the ISO/JCGM Guide [14,15]. The measurand is the total mass fraction of the chlorinated pesticides listed and the values listed are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.

Table 4. Reference Mass Fraction Values for PAHs in SRM 1941b

| PAHs | Mass Fractions ^(a) ($\mu\text{g}/\text{kg}$) | | |
|---|--|-------|---------------------|
| 1-Methylnaphthalene ^(b,c,d,e) | 127 | \pm | 14 ^(f) |
| 2-Methylnaphthalene ^(b,c,d,e) | 276 | \pm | 53 ^(f) |
| 2,6-Dimethylnaphthalene ^(b,c,d,e) | 75.9 | \pm | 4.5 ^(f) |
| 2,3,5-Trimethylnaphthalene ^(b,c,d,e) | 25.5 | \pm | 5.1 ^(f) |
| Biphenyl ^(b,c,d,e) | 74.0 | \pm | 8.0 ^(f) |
| Acenaphthylene ^(b,c,d,e) | 53.3 | \pm | 6.4 ^(f) |
| Acenaphthene ^(b,c,d,e) | 38.4 | \pm | 5.2 ^(f) |
| 9-Methylphenanthrene ^(c) | 63.5 | \pm | 2.5 ^(g) |
| 4-Methylphenanthrene and 9-Methylphenanthrene ^(b,d) | 80.1 | \pm | 4.8 ^(f) |
| 2-Methylanthracene ^(c,d) | 36 | \pm | 15 ^(f) |
| 8-Methylfluoranthene ^(b) | 49.5 | \pm | 2.7 ^(g) |
| 7-Methylfluoranthene ^(b) | 45.4 | \pm | 1.5 ^(g) |
| 1-Methylfluoranthene ^(b) | 42.4 | \pm | 2.1 ^(g) |
| 3-Methylfluoranthene ^(b) | 28.8 | \pm | 1.3 ^(g) |
| 2-Methylpyrene ^(b) | 78.7 | \pm | 4.0 ^(g) |
| 4-Methylpyrene ^(b) | 66.4 | \pm | 2.6 ^(g) |
| 1-Methylpyrene ^(b) | 52.5 | \pm | 2.3 ^(g) |
| Acephenanthrene ^(d) | 30.5 | \pm | 1.9 ^(g) |
| Benzo[<i>c</i>]phenanthrene ^(b,c,d) | 58 | \pm | 15 ^(f) |
| Benzo[<i>a</i>]fluoranthene ^(b,c,d) | 73 | \pm | 18 ^(f) |
| Benzo[<i>j</i>]fluoranthene ^(c) | 217 | \pm | 5 ^(g) |
| Indeno[1,2,3- <i>cd</i>]fluoranthene ^(d) | 9.63 | \pm | 0.34 ^(g) |
| Pentaphene ^(d) | 25.3 | \pm | 1.0 ^(g) |

^(a) Mass fractions reported on dry-mass basis; material as received contains approximately 2.4 % moisture.

^(b) GC/MS (I) on 5 % phenyl-substituted methylpolysiloxane phase after PFE with DCM.

^(c) GC/MS (II) on 50 % phenyl-substituted methylpolysiloxane phase after PFE with DCM.

^(d) GC/MS (III) on a relatively non-polar proprietary phase after Soxhlet extraction with 50 % hexane/50 % acetone mixture.

^(e) 1999 Interlaboratory Comparison Study [7] with 14 to 26 laboratories submitting data for each PAH.

^(f) Reference values are weighted means of the results from two to four analytical methods [13]. The uncertainty listed with each value is an expanded uncertainty about the mean, with coverage factor 2 (approximately 95 % confidence), calculated by combining a between-method variance incorporating inter-method bias with a pooled within-method variance following the ISO/JCGM Guide [14,15]. The measurand is the total mass fraction of PAHs listed as determined by the methods indicated. The values are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.

^(g) Reference values are the means of results obtained by NIST using one analytical technique. The expanded uncertainty, U , is calculated as $U = k u_c$, where u_c is one standard deviation of the analyte mean, and the coverage factor, k , is determined from the Student's t -distribution for the associated degrees of freedom (19 for footnote b and 5 for footnotes c and d) and 95 % confidence level for each analyte. The measurand is the total mass fraction of the PAHs listed as determined by the method indicated. The values listed are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.

Table 5. Reference Mass Fraction Values for PAHs of Molecular Mass 300 and 302 in SRM 1941b

| PAHs of Molecular Mass 300 and 302 | Mass Fractions ^(a,b,c) ($\mu\text{g}/\text{kg}$) |
|--|--|
| Coronene | 72.6 \pm 4.7 |
| Dibenzo[<i>b,e</i>]fluoranthene | 10.3 \pm 0.3 |
| Naphtho[1,2- <i>b</i>]fluoranthene | 91.0 \pm 3.1 |
| Naphtho[1,2- <i>k</i>]fluoranthene and Naphtho[2,3- <i>j</i>]fluoranthene | 79.8 \pm 2.5 |
| Naphtho[2,3- <i>b</i>]fluoranthene | 23.5 \pm 0.3 |
| Dibenzo[<i>b,k</i>]fluoranthene | 95.6 \pm 3.1 |
| Dibenzo[<i>a,k</i>]fluoranthene | 26.6 \pm 0.4 |
| Dibenzo[<i>j,l</i>]fluoranthene | 63.8 \pm 1.8 |
| Dibenzo[<i>a,l</i>]pyrene | 11.1 \pm 1.0 |
| Naphtho[2,3- <i>k</i>]fluoranthene | 10.7 \pm 0.6 |
| Naphtho[1,2- <i>a</i>]pyrene | 16.7 \pm 1.4 |
| Naphtho[2,3- <i>e</i>]pyrene | 33.2 \pm 2.3 |
| Dibenzo[<i>a,e</i>]pyrene | 76.1 \pm 3.6 |
| Naphtho[2,1- <i>a</i>]pyrene | 59.2 \pm 1.8 |
| Dibenzo[<i>e,i</i>]pyrene | 35.0 \pm 2.4 |
| Naphtho[2,3- <i>a</i>]pyrene | 16.5 \pm 0.6 |
| Benzo[<i>b</i>]perylene | 38.2 \pm 1.2 |
| Dibenzo[<i>a,i</i>]pyrene | 25.5 \pm 1.0 |
| Dibenzo[<i>a,h</i>]pyrene | 6.94 \pm 0.29 |

^(a) Mass fractions reported on dry-mass basis; material as received contains approximately 2.4 % moisture.

^(b) Reference values are the means of results obtained by NIST using one analytical technique. The expanded uncertainty, U , is calculated as $U = ku_c$, where u_c is one standard deviation of the analyte mean, and the coverage factor, k , is determined from the Student's t -distribution for two degrees of freedom and 95 % confidence level for each analyte. The measurand is the total mass fraction of the constituent listed as determined by the method indicated. The values are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.

^(c) GC/MS on 50 % phenyl-substituted methylpolysiloxane phase after PFE with DCM [8].

Table 6. Reference Mass Fraction Values for PCB Congeners^(a) in SRM 1941b

| PCB Congeners | | | Mass Fractions ^(b,c) ($\mu\text{g}/\text{kg}$) | | |
|---------------|-----|---|--|-------|-------|
| PCB | 45 | (2,2',3,6-Tetrachlorobiphenyl) ^(d,e) | 0.73 | \pm | 0.12 |
| PCB | 56 | (2,3,3',4'-Tetrachlorobiphenyl) ^(d,f,g) | 1.21 | \pm | 0.11 |
| PCB | 63 | (2,3,4',5-Tetrachlorobiphenyl) ^(e,f,g) | 0.213 | \pm | 0.040 |
| PCB | 70 | (2,3',4',5-Tetrachlorobiphenyl) ^(e,f,g) | 4.99 | \pm | 0.29 |
| PCB | 74 | (2,4,4',5-Tetrachlorobiphenyl) ^(e,f,g) | 2.04 | \pm | 0.15 |
| PCB | 77 | (3,3',4,4'-Tetrachlorobiphenyl) ^(h) | 0.31 | \pm | 0.03 |
| PCB | 107 | (2,3,3',4',5-Pentachlorobiphenyl) ^(d,e,f,g) | 0.628 | \pm | 0.028 |
| PCB | 132 | (2,2',3,3',4,6'-Hexachlorobiphenyl) ^(d,f,g) | 1.28 | \pm | 0.27 |
| PCB | 146 | (2,2',3,4',5,5'-Hexachlorobiphenyl) ^(e,f,g) | 1.22 | \pm | 0.12 |
| PCB | 158 | (2,3,3',4,4',6-Hexachlorobiphenyl) ^(d,e,f,g) | 0.65 | \pm | 0.15 |
| PCB | 163 | (2,3,3',4',5,6-Hexachlorobiphenyl) ^(e,f,g) | 1.28 | \pm | 0.06 |
| PCB | 174 | (2,2',3,3',4,5,6'-Heptachlorobiphenyl) ^(d,e,f,g) | 1.51 | \pm | 0.39 |
| PCB | 193 | (2,3,3',4',5,5',6-Heptachlorobiphenyl) ^(d,e,f,g) | 0.292 | \pm | 0.075 |

^(a) PCB congeners are numbered according to the scheme proposed by Ballschmiter and Zell [9] and later revised by Schulte and Malisch [10] to conform with IUPAC rules, except PCB 107. Under the Ballschmiter and Zell numbering system, the IUPAC PCB 107 is listed as PCB 108.

^(b) Mass fractions reported on dry-mass basis; material as received contains approximately 2.4 % moisture.

^(c) For these PCB congeners except PCB 77, the reference values are unweighted means of the results from two to four analytical methods. The uncertainty listed with each value is an expanded uncertainty about the mean, with coverage factor 2, calculated by combining a between-method variance [16] with a pooled within-method variance following the ISO/JCGM Guide [14,15]. For PCB 77, the reference value is the mean of results obtained by NIST using one analytical technique. The expanded uncertainty, U , is calculated as $U = kuc$, where u_c is one standard deviation of the analyte mean, and the coverage factor, k , is determined from the Student's t -distribution corresponding to two degrees of freedom and 95 % confidence level for PCB 77. The measurand is the total mass fraction of the PCB Congeners listed as determined by the method or methods indicated. The values listed are metrologically traceable to the SI unit of mass, expressed as microgram per kilogram on a dry-mass basis.

^(d) GC-ECD (IA) on 5 % phenyl-substituted methylpolysiloxane phase after PFE extraction with DCM.

^(e) GC-ECD (IB) on a relatively non-polar proprietary phase; same extracts analyzed as in GC-ECD (IA).

^(f) GC/MS (IA) on a relatively non-polar proprietary phase after Soxhlet extraction with 50 % hexane/50 % acetone mixture.

^(g) GC/MS (IB) on 5 % phenyl-substituted methylpolysiloxane phase; same extracts analyzed as in GC/MS (IA).

^(h) GC/MS NICI on a 5 % phenyl-substituted methylpolysiloxane phase; same extracts analyzed as in GC-ECD (I) fractionated using a PYE column.

Table 7. Reference Mass Fraction Values for Selected Chlorinated Pesticides in SRM 1941b

| Chlorinated Pesticides | Mass Fractions ^(a,b) ($\mu\text{g}/\text{kg}$) |
|---------------------------|--|
| 2,4'-DDE ^(c,d) | 0.38 \pm 0.12 |
| 4,4'-DDT ^(e,f) | 1.12 \pm 0.42 |

^(a) Mass Fractions reported on dry-mass basis; material as received contains approximately 2.4 % moisture.

^(b) The reference values are unweighted means of the results from two analytical methods. The uncertainty listed with each value is an expanded uncertainty about the mean, with coverage factor 2, calculated by combining a between-method variance [16] with a pooled, within-method variance following the ISO/JCGM Guide [14,15]. The measurand is the total mass fraction of the chlorinated pesticides listed as determined by the methods indicated. The values listed are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.

^(c) GC/MS (IB) on 5 % phenyl-substituted methylpolysiloxane phase; same extracts analyzed as in GC/MS (IA).

^(d) GC-ECD (IB) on a relatively non-polar proprietary phase; same extracts analyzed as in GC-ECD (IA).

^(e) GC/MS (II) on a relatively non-polar proprietary phase after Soxhlet extraction with DCM.

^(f) 1999 Interlaboratory Comparison Study [7] with 10 laboratories submitting data for 4,4'-DDT.

Table 8. Reference Mass Fraction Values for Alkylated PAH Groups in SRM 1941b

| Alkylated PAH Group | Mass Fraction ^(a,b) ($\mu\text{g}/\text{kg}$) |
|--|---|
| C2-decalins | 18 \pm 5 |
| C4-decalins | 41 \pm 4 |
| C2-naphthalenes | 187 \pm 53 |
| C3-naphthalenes | 158 \pm 42 |
| C1-benzothiophenes | 25 \pm 14 |
| C2-benzothiophenes | 20 \pm 11 |
| C3-benzothiophenes | 22 \pm 13 |
| C4-benzothiophenes | 18 \pm 5 |
| C1-fluorenes | 57 \pm 18 |
| C2-fluorenes | 122 \pm 43 |
| C3-fluorenes | 128 \pm 31 |
| C1-phenanthrenes/anthracenes | 313 \pm 99 |
| C2-phenanthrenes/anthracenes | 247 \pm 62 |
| C3-phenanthrenes/anthracenes | 165 \pm 46 |
| C4-phenanthrenes/anthracenes | 87 \pm 36 |
| C1-dibenzothiophenes | 54 \pm 13 |
| C2-dibenzothiophenes | 91 \pm 18 |
| C3-dibenzothiophenes | 84 \pm 15 |
| C4-dibenzothiophenes | 57 \pm 13 |
| C1-fluoranthenes/pyrenes | 252 \pm 48 |
| C2-fluoranthenes/pyrenes | 205 \pm 38 |
| C3-fluoranthenes/pyrenes | 102 \pm 22 |
| C4-fluoranthenes/pyrenes | 121 \pm 59 |
| C1-benzanthracenes/chrysenes/triphenylenes | 208 \pm 43 |
| C2-benzanthracenes/chrysenes/triphenylenes | 120 \pm 24 |
| C3-benzanthracenes/chrysenes/triphenylenes | 73 \pm 31 |
| C4-benzanthracenes/chrysenes/triphenylenes | 41 \pm 11 |

^(a) The reference mass fraction value reported on a dry-mass basis is the median of results using one analytical technique. The expanded uncertainty, U , is calculated as $U = ku_c$, where u_c is one standard deviation of the median, and the coverage factor, $k = 2$. The measurand is the total mass fraction of the alkylated PAH groups listed as determined by the interlaboratory study methods. The values listed are metrologically traceable to the SI unit of mass fraction, expressed as micrograms per kilogram on a dry-mass basis.

^(b) Data from the interlaboratory study [12].

Table 9. Reference Mass Fraction Values for Hopanes and Steranes in SRM 1941b

| Hopane or Sterane | Mass Fraction ^(a,b) (µg/kg) |
|---|---|
| 17α(H)-22,29,30-Trisnorhopane | 54 ± 18 |
| 17α(H)-21β(H)-30-Norhopane | 137 ± 21 |
| 17α(H)-21β(H)-30-Hopane | 215 ± 44 |
| 17α(H)-21β(H)-22R-Homohopane | 44 ± 10 |
| 17α(H)-21β(H)-22S-Homohopane | 48 ± 13 |
| 5α(H)-14α(H),17α(H)-Cholestane 20R | 41 ± 11 |
| 5α(H)-14β(H),17β(H)-Cholestane 20R | 27 ± 6 |
| 5α(H)-14β(H),17β(H)-24-Methylcholestane 20R | 21 ± 8 |
| 5α(H)-14α(H),17α(H)-24-Ethylcholestane 20R | 19 ± 5 |
| 5α(H)-14β(H),17β(H)-24-Ethylcholestane 20R | 41 ± 9 |

- ^(a) The reference mass fraction value reported on a dry-mass basis is the median of results using one analytical technique. The expanded uncertainty, U , is calculated as $U = k u_c$, where u_c is one standard deviation of the median, and the coverage factor, $k = 2$. The measurand is the total mass fraction of the constituent listed as determined by the methods used during the interlaboratory study. The values are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.
- ^(b) Data from the interlaboratory study [12].

Table 10. Reference Mass Fraction Value for Total Organic Carbon in SRM 1941b

| | |
|----------------------------|----------------------------------|
| Total Organic Carbon (TOC) | 2.99 % ± 0.24 % ^(a,b) |
|----------------------------|----------------------------------|

- ^(a) Mass fraction is reported on a dry-mass basis; material as received contains approximately 2.4 % moisture.
- ^(b) The reference value for total organic carbon is a weighted mean value from routine measurements made by two laboratories [21]. The uncertainty listed is an expanded uncertainty about the mean, with coverage factor 2 (approximately 95 % confidence), calculated by combining a between-method variance incorporating inter-method bias with a pooled within-method variance. The reporting follows the ISO/JCGM Guides [2]. The measurand is the total mass fraction of TOC listed as determined by the methods indicated. The values listed are metrologically traceable to the SI unit of mass, expressed as a percent on a dry-mass basis.

Table 11. Information Mass Fraction Values for Carbon, Hydrogen, and Nitrogen in SRM 1941b

| Elements | Mass Fractions ^(a) (%) |
|----------|--------------------------------------|
| Carbon | 3.3 |
| Hydrogen | 1.2 |
| Nitrogen | <0.5 |

- ^(a) Mass fraction is reported on a dry-mass basis; material as received contains approximately 2.4 % moisture.

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Certificate Revision History: 16 January 2015 (Corrected IUPAC name for PCB-56 and PCB-107; editorial changes); 10 June 2014 (Units corrected from mg/kg to µg/kg in Tables 8 and 9; editorial changes); 10 April 2012 (Reference value added for alkylated PAH groups, hopanes, and steranes; extension of certification period; editorial changes); 16 August 2004 (Reference values for the butyl tins removed; editorial changes); 15 July 2002 (Original certificate date).

Users of this SRM should ensure that the Certificate of Analysis in their possession is current. This can be accomplished by contacting the SRM Program: telephone (301) 975-2200; fax (301) 948-3730; e-mail srminfo@nist.gov; or via the Internet at <http://www.nist.gov/srm>.

APPENDIX A

The laboratories listed below performed measurements that contributed to the certification of PAHs, PCBs, and chlorinated pesticides in SRM 1941b Organics in Marine Sediment.

Arthur D. Little, Inc; Cambridge, MA
Axys Analytical Services; Sidney, BC, Canada
B & B Laboratories; College Station, TX
Battelle Ocean Sciences; Duxbury, MA
Bedford Institute of Oceanography; Dartmouth, NS, Canada
California Department of Fish and Game; Rancho Cordova, CA
Central Contra Costa Sanitary District; Martinez, CA
Chesapeake Biological Laboratory; Solomons, MD
Centro de Investigaciones Energeticas Medioambientales y Tecnologicas; Madrid, Spain
City of Los Angeles Environmental Monitoring Division; Playa del Rey, CA
City of San Jose Environmental Services Department; San Jose, CA
Columbia Analytical Services; Kelso, WA
East Bay Municipal Utility District; Oakland, CA
Florida Department of Environmental Protection; Tallahassee, FL
Manchester Environmental Laboratory; Port Orchard, WA
Murray State University; Murray, KY
Massachusetts Water Resources Authority Central Lab; Winthrop, MA
National Research Council of Canada; Ottawa, Ontario, Canada
National Oceanic and Atmospheric Association (NOAA), National Marine Fisheries Service (NMFS), Auke Bay Laboratory; Juneau, AK
NOAA, National Ocean Service/Center for Coastal Environmental Health and Biomolecular Research; Charleston, SC
NOAA, NMFS, Sandy Hook Marine Laboratory; Highlands, NJ
NOAA, NMFS, Northwest Fisheries Science Center; Seattle, WA
Orange County Sanitation District; Fountain Valley, CA
Philip Analytical Services; Burlington, Ontario, Canada
Serv de Hidrografia Naval; Buenos Aires, Argentina
Skidaway Institute of Technology; Savannah, GA
Southwest Laboratory of Oklahoma; Broken Arrow, OK
Severn Trent Knoxville Laboratory; Knoxville, TN
Texas A&M University, Geochemical and Environmental Research Group; College Station, TX
Texas Parks and Wildlife Department; San Marcos, TX
University of California at Los Angeles, Institute of Geophysics and Planetary Physics; Los Angeles, CA
University of Connecticut, Environmental Research Institute; Storrs, CT
University of Rhode Island, Graduate School of Oceanography; Narragansett, RI
US Department of Agriculture, Environmental Chemistry Laboratory; Beltsville, MD
US Environmental Protection Agency, Atlantic Ecology Division; Narragansett, RI
US Geological Survey, National Water Quality Laboratory; Denver, CO
Woods Hole Group Environmental Lab; Raynham, MA
Wright State University; Dayton, OH

APPENDIX B

The laboratories listed below performed measurements that contributed to the certification of alkylated PAH groups, hopanes, and steranes in SRM 1941b Organics in Marine Sediment.

Alpha Analytical, Inc.; Mansfield, MA
Analytical Resources, Inc.; Tukwila, WA
Axy's Analytical Services; Sydney, BC, Canada
Battelle Analytical & Environmental Chemistry Laboratory; Duxbury, MA
Center for Laboratory Sciences; Pasco, WA
Columbia Analytical Services; Jacksonville, FL
Columbia Analytical Services; Rochester, NY
Columbia Analytical Services, Kelso, WA
Florida Department of Environmental Protection; Tallahassee, FL
Florida International University; North Miami, FL
Michigan Department of Natural Resources and Environment; Lansing, MI
Mississippi State Chemical Laboratory; Mississippi State, MS
NIST; Charleston, SC
NIST; Gaithersburg, MD
NOAA/NCCOS/NOS; Charleston, SC
NOAA/NMFS/Alaska Fisheries Science Center; Juneau, AK
NY State Department of Health; Albany, NY
Pace Analytical Services, Inc. Minneapolis; Minneapolis, MN
RJ Lee Group, Inc; Monroeville, PA
TDI/B&B Laboratories, Inc.; College Station, TX
TestAmerica Laboratories; Mobile, AL
TestAmerica Laboratories; West Sacramento, CA
TestAmerica Laboratories; University Park, IL
TestAmerica Laboratories; Schriever, LA
TestAmerica Laboratories; Edison, NJ
TestAmerica Laboratories; Knoxville, TN
TestAmerica Laboratories; Pittsburgh, PA
TestAmerica Laboratories; South Burlington, VT
TestAmerica Laboratories; Tacoma, WA
US Army Engineer Research and Development Center; Vicksburg, MS
USGS Columbia Environmental Research Center; Columbia, MO
University of Iowa, State Hygienic Laboratory; Iowa City, IO
Washington State Public Health Laboratories; Shoreline, WA



Date of Issue:
31 March 2014

SAFETY DATA SHEET

1. SUBSTANCE AND SOURCE IDENTIFICATION

Product Identifier

SRM Number: 1941b
SRM Name: Organics in Marine Sediment
Other Means of Identification: Not applicable.

Recommended Use of This Material and Restrictions of Use

This Standard Reference Material (SRM) is marine sediment collected at the mouth of the Baltimore (MD) Harbor. SRM 1941b is intended for use in evaluating analytical methods for the determination of selected polycyclic aromatic hydrocarbons (PAHs), polychlorinated biphenyl (PCB) congeners, and chlorinated pesticides in marine sediment and similar matrices. All of the constituents for which certified, reference, and information values are provided in SRM 1941b were naturally present in the sediment before processing. A unit of SRM 1941b consists of a bottle containing 50 g of radiation-sterilized, freeze-dried sediment.

Company Information

National Institute of Standards and Technology
Standard Reference Materials Program
100 Bureau Drive, Stop 2300
Gaithersburg, Maryland 20899-2300

Telephone: 301-975-2200
FAX: 301-948-3730
E-mail: SRMMSDS@nist.gov
Website: <http://www.nist.gov/srm>

Emergency Telephone ChemTrec:
1-800-424-9300 (North America)
+1-703-527-3887 (International)

2. HAZARDS IDENTIFICATION

Classification

Physical Hazard: Not classified.
Health Hazard: Not classified.

Label Elements

Symbol
No Symbol/Pictogram

Signal Word
Not applicable.

Hazard Statement(s): Not applicable.

Precautionary Statement(s): Not applicable.

Hazards Not Otherwise Classified: Not applicable.

Ingredients(s) with Unknown Acute Toxicity: Not applicable.

3. COMPOSITION AND INFORMATION ON HAZARDOUS INGREDIENTS

Substance: Marine sediment

Other Designations: Sediment.

This material is naturally occurring marine sediment from an urban area. The material contains trace amounts of polycyclic aromatic hydrocarbons (PAHs), polychlorinated biphenyl (PCB) congeners, and should be handled with care. Components are listed in compliance with OSHA's 29 CFR 1910.1200; for the actual values see the Certificate of Analysis.

| Hazardous Component(s) | CAS Number | EC Number (EINECS) | Nominal Mass Concentration (%) |
|------------------------|---------------|-----------------------|---|
| Marine Sediment | Not available | Not available | 23A0180 CLPLIKE (Rev0) - Page 5523 of 5538 100 |

4. FIRST AID MEASURES

Description of First Aid Measures:

Inhalation: If adverse effects occur, remove to uncontaminated area. If not breathing, give artificial respiration or oxygen by qualified personnel. Seek immediate medical attention.

Skin Contact: Wash skin with soap and water.

Eye Contact: Flush eyes with water for at least 15 minutes. If necessary, seek medical attention.

Ingestion: If adverse effects occur after ingestion, seek medical treatment.

Most Important Symptoms/Effects, Acute and Delayed: May cause irritation.

Indication of any immediate medical attention and special treatment needed, if necessary: If any of the above symptoms are present, seek medical attention if needed.

5. FIRE FIGHTING MEASURES

Fire and Explosion Hazards: Negligible fire hazard. Avoid generating dust. See Section 9, "Physical and Chemical Properties" for flammability properties.

Extinguishing Media:

Suitable: Use extinguishing media appropriate for surrounding fire.

Unsuitable: None listed.

Specific Hazards Arising from the Chemical: None listed.

Special Protective Equipment and Precautions for Fire-Fighters: Avoid inhalation of material or combustion byproducts. Wear full protective clothing and NIOSH approved self-contained breathing apparatus (SCBA).

NFPA Ratings (0 = Minimal; 1 = Slight; 2 = Moderate; 3 = Serious; 4 = Severe)

Health = 1

Fire = 0

Reactivity = 0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures: Any accumulated material on surfaces should be removed and properly disposed of. Use suitable protective equipment; see Section 8, "Exposure Controls and Personal Protection".

Methods and Materials for Containment and Clean up: Collect spilled material in appropriate container for disposal. Keep out of water supplies and sewers. Keep unnecessary people away, isolate hazard area and deny entry.

7. HANDLING AND STORAGE

Safe Handling Precautions: Minimize dust generation and accumulation on surfaces. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. See Section 8, "Exposure Controls and Personal Protection".

Storage: Store and handling in accordance with all current regulations and standards.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Limits: No occupational exposure limits have been established for marine sediment. This material is a particulate matter and adequate inhalation/respiratory protection should be used to minimize exposure. The exposure limits for Particulates Not Otherwise Regulated (PNOR) are applicable.

OSHA (PEL): 15 mg/m³ (TWA, total particulates not otherwise regulated)

OSHA (PEL) 5 mg/m³ (TWA, respirable particulates not otherwise regulated)

NIOSH (REL): 10 mg/m³ (TWA, total particulates not otherwise regulated, 8 h)

NIOSH (REL): 5 mg/m³ (TWA, respirable particulates not otherwise regulated)

Engineering Controls: Provide local exhaust or process enclosure ventilation system. Ensure compliance with applicable exposure limits.

Personal Protection: In accordance with OSHA 29 CFR 1910.132, subpart I, wear appropriate Personal Protective Equipment (PPE) to minimize exposure to this material.

Respiratory Protection: If workplace conditions warrant a respirator, a respiratory protection program that meets OSHA 29CFR 1910.134 must be followed. Refer to NIOSH 42 CFR 84 for applicable certified respirators.

Eye/Face Protection: Wear splash resistant safety goggles with a face shield. An eye wash station should be readily available near areas of use.

Skin and Body Protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Chemical-resistant gloves should be worn at all times when handling chemicals.

9. PHYSICAL AND CHEMICAL PROPERTIES

Descriptive Properties:

| | |
|---|------------------|
| Appearance (physical state, color, etc.): | amorphous powder |
| Molecular Formula: | not applicable |
| Molar Mass (g/mol): | not applicable |
| Odor: | not available |
| Odor threshold: | not available |
| pH: | not available |
| Evaporation rate: | not applicable |
| Melting point/freezing point (°C): | not available |
| Specific Gravity (water=1) | not available |
| Vapor Pressure (mmHg): | not applicable |
| Vapor Density (air = 1): | not applicable |
| Viscosity (cP): | not applicable |
| Solubility(ies): | not available |
| Partition coefficient (n-octanol/water): | not available |
| Particle Size: | <150 µm |

Thermal Stability Properties:

| | |
|--|---------------|
| Autoignition Temperature (°C): | not available |
| Thermal Decomposition (°C): | not available |
| Initial boiling point and boiling range (°C): | not available |
| Explosive Limits, LEL (Volume %): | not available |
| Explosive Limits, UEL (Volume %): | not available |
| Flash Point (°C): | not available |
| Flammability (solid, gas): | not available |

10. STABILITY AND REACTIVITY

Reactivity: Stable at normal temperatures and pressure.

Stability: X Stable Unstable

Possible Hazardous Reactions: None listed.

Conditions to Avoid: Avoid generating dust.

Incompatible Materials: None listed.

Fire/Explosion Information: See Section 5, "Fire Fighting Measures".

Hazardous Decomposition: Thermal decomposition will produce oxides of carbon.

Hazardous Polymerization: Will Occur X Will Not Occur

11. TOXICOLOGICAL INFORMATION

Route of Exposure: Inhalation Skin Ingestion

Symptoms Related to the Physical, Chemical and Toxicological Characteristics: Generated dust may cause irritation if inhaled.

Potential Health Effects (Acute, Chronic and Delayed):

Inhalation: Generated dust may cause irritation.

Skin Contact: May cause mechanical irritation.

Eye Contact: May cause mechanical irritation.

Ingestion: No data available.

Numerical Measures of Toxicity:

Acute Toxicity: Not classified; no data available.

Skin Corrosion/Irritation: Not classified; no data available.

Serious Eye damage/ Eye irritation: Not classified; no data available.

Respiratory Sensitization: Not classified; no data available.

Skin Sensitization: Not classified; no data available.

Germ Cell Mutagenicity: Not classified; no data available.

Carcinogenicity: Not classified.

Listed as a Carcinogen/Potential Carcinogen Yes No
Marine sediment is not listed by NTP, IARC or OSHA as a carcinogen.

Reproductive Toxicity: Not classified; no data available.

Specific Target Organ Toxicity, Single Exposure: Not classified; no data available.

Specific Target Organ Toxicity, Repeated Exposure: Not classified; no data available.

Aspiration Hazard: Not classified; no data available.

12. ECOLOGICAL INFORMATION

Ecotoxicity Data: No data available.

Persistence and Degradability: No data available.

Bioaccumulative Potential: No data available.

Mobility in Soil: No data available.

Other Adverse effects: No data available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal: Dispose of waste in accordance with all applicable federal, state, and local regulations.

14. TRANSPORTATION INFORMATION

U.S. DOT and IATA: Not regulated by DOT or IATA.

15. REGULATORY INFORMATION

U.S. Regulations:

CERCLA Sections 102a/103 (40 CFR 302.4): Not regulated.

SARA Title III Section 302 (40 CFR 355.30): Not regulated.

SARA Title III Section 304 (40 CFR 355.40): Not regulated.

SARA Title III Sections 311/312 Hazardous Categories (40 CFR 370.21):

ACUTE HEALTH: No.
CHRONIC HEALTH: No.
FIRE: No.
REACTIVE: No.
PRESSURE: No.

State Regulations:

California Proposition 65: Not listed.

U.S. TSCA Inventory: Not listed.

TSCA 12(b), Export Notification: Not listed.

Canadian Regulations:

WHMIS Information: Not provided for this material.

16. OTHER INFORMATION

Issue Date: 31 March 2014

Sources: 29 CFR Occupational Health and Safety Office (OSHA) 1910.1000, *Limits for Air Contaminants*, Table Z-1; available at http://www.osha.gov/pls/oshaweb/owadisp.show_document?p_table=STANDARDS&p_id=9992 (accessed Mar 2014).

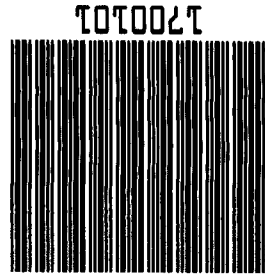
Center for Disease Control (CDC) NIOSH Pocket Guide to Chemical Hazards, *Particulates not otherwise regulated*; available at <http://www.cdc.gov/niosh/npg/npgd0480.html> (accessed Mar 2014).

Key of Acronyms:

| | | | |
|--------|---|-------|--|
| ACGIH | American Conference of Governmental Industrial Hygienists | NRC | Nuclear Regulatory Commission |
| ALI | Annual Limit on Intake | NTP | National Toxicology Program |
| CAS | Chemical Abstracts Service | OSHA | Occupational Safety and Health Administration |
| CERCLA | Comprehensive Environmental Response, Compensation, and Liability Act | PEL | Permissible Exposure Limit |
| CFR | Code of Federal Regulations | RCRA | Resource Conservation and Recovery Act |
| DOT | Department of Transportation | REL | Recommended Exposure Limit |
| EC50 | Effective Concentration, 50 % | RM | Reference Material |
| EINECS | European Inventory of Existing Commercial Chemical Substances | RQ | Reportable Quantity |
| EPCRA | Emergency Planning and Community Right-to-Know Act | RTECS | Registry of Toxic Effects of Chemical Substances |
| IARC | International Agency for Research on Cancer | SARA | Superfund Amendments and Reauthorization Act |
| IATA | International Air Transportation Agency | SCBA | Self-Contained Breathing Apparatus |
| IDLH | Immediately Dangerous to Life and Health | SRM | Standard Reference Material |
| LC50 | Lethal Concentration, 50 % | STEL | Short Term Exposure Limit |
| LD50 | Lethal Dose, 50 % | TLV | Threshold Limit Value |
| LEL | Lower Explosive Limit | TPQ | Threshold Planning Quantity |
| MSDS | Material Safety Data Sheet | TSCA | Toxic Substances Control Act |
| NFPA | National Fire Protection Association | TWA | Time Weighted Average |
| NIOSH | National Institute for Occupational Safety and Health | UEL | Upper Explosive Limit |
| NIST | National Institute of Standards and Technology | WHMIS | Workplace Hazardous Materials Information System |

Disclaimer: Physical and chemical data contained in this SDS are provided only for use in assessing the hazardous nature of the material. The SDS was prepared carefully, using current references; however, NIST does not certify the data in the SDS. The certified values for this material are given in the NIST Certificate of Analysis.

Users of this SRM should ensure that the SDS in their possession is current. This can be accomplished by contacting the SRM Program: telephone (301) 975-2200; fax (301) 948-3730. <http://www.nist.gov/srm>



| | |
|-------------|--|
| Weight | |
| # of pieces | |
| Packed by | |
| Picked by | |

9/21/16 04:04 PM

NOT FOR HUMAN CONSUMPTION,
LABORATORY USE ONLY.

1 / EACH

Organics in Marine Sediment

Total qty:

1941B

0 EACH

0

1 EACH

1 EACH

| Order | UOM | Ship | UOM | B/O | UOM | Item | Description |
|-------|------|------|------|-----|------|-------|-----------------------------|
| 1 | EACH | 1 | EACH | 0 | EACH | 1941B | Organics in Marine Sediment |

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|----------|---------------|--------------|--|
| Ship via | UFS Ground | Description | |
| Salesmen | MCMIDM2 | Instructions | |
| Contact | DAVE MITCHELL | Prof | |
| | | Truck# | |
| | | Blanket | |
| | | Ship from | |

DAVE MITCHELL
ANALYTICAL RESOURCES INC
4611 S 134TH PLACE
SUITE 100
TUKWILA, WA 98168-3240
1 (206) 695-6205

DAVE MITCHELL
ANALYTICAL RESOURCES INC
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SUITE 100
TUKWILA, WA 98168-3240
1 (206) 695-6205

Ship to: 68456



MP Biomedicals, LLC

29525 Fountain Parkway
Solon, Ohio 44139

Telephone: 440/337-1200
Toll Free: 800/854-0530

Fax: 440/337-1180
web: www.mpbio.com

Certificate of Analysis

Product Description: Microcrystalline Cellulose Powder_
Catalog Number: 191499_
Lot: Q9483_

Formula: (C₆H₁₀O₅)_n
CAS #: 9004-34-6
Physical Description: White Powder

Formula Weight: N/A
Storage: 15 - 30°C


| Test | Specification | Result |
|--------------------------|---------------|---------------|
| Identity Test | Passes | Passes |
| Purity | 97.0 - 102.0% | 97.0 - 102.0% |
| Moisture | <5.0% | 3.4% |
| Particle Size/Mesh | Wt % | |
| +60 mesh | <8% | <1% |
| +200 mesh | >45% | 55% |
| pH | 5 - 7 | 6.73 |
| Residue on Ignition | <0.05% | <0.05% |
| Water Soluble Substances | <12.0 mg/5 g | 4.5 mg/5 g |
| Heavy Metals | <10 ppm | <10 ppm |

H001822

Microcrystalline Cellulose Powder (TOC)
Expires 11/30/2022
Prepared By Casey English 2/22/2019

Identification A & B: Passes
Bulk Density: 0.29 g/ml
Bulk Density (graduated cylinder): 0.31 g/ml
Conductivity: 18 µS/cm
Starch: Negative
Ether Soluble Substances: 0.01%
Total Aerobic microbial Count: 100 cfu/g
Total Mold and Yeast Count: 20 cfu/g
Staphylococcus aureus: Absent/1 g
Pseudomonas aeruginosa: Absent/1 g
E. coli: Absent/1 g
Salmonella: Absent/10 g
Particle size:

- 450 mesh: 77%
- d10: 37 um
- d50: 139 um
- d90: 271 um
TUP: <9/600 cm²
Degree of brightness: >88%
Powder flow-angle of repose: <42°
Recommended Retest Date: 11/30/2022



07/26/2018 - John Huang, PhD
MP Biomedicals, LLC.
Quality Control Manager

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Catalog Number: 191499_
Lot: Q9483_


| | |
|---|---|
| Formula: (C ₆ H ₁₀ O ₅) _n CAS #: 9004-34-6 Physical Description: White Powder | Formula Weight: N/A Storage: 15 - 30°C |
|---|---|

| Test | Specification | Result |
|--------------------------|---------------|---------------|
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H001822

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Expires 11/30/2022

Prepared By Casey English 2/22/2019

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Total Mold and Yeast Count: 20 cfu/g

Staphylococcus aureus: Absent/1 g


Pseudomonas aeruginosa: Absent/1 g

E. coli: Absent/1 g

Salmonella: Absent/10 g

Particle size:

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TUP: <9/600 cm²
Degree of brightness: >88%
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| TOTAL SOLIDS BENCHSHEET | | | | | | Batch: | BLA0478 | |
|--------------------------------|------------------|----------------------|--------------|--|--------|---------------------|-----------------|--|
| Method: PSEP 1986 | | | | | | Date: | 1/19/2023 11:42 | |
| (dry at 103-105 C) | | | | | | Analyst: | CR | |
| Instrumentation | | | | | | Drying Oven: | 15 | |
| | | | | | | Analytical Balance: | B139298002 | |
| Batch drying time | | | | | | | | |
| Record times as mm/dd/yy hh:mm | | | Oven Temp, C | TS (%) calculated as: | | Oven Temps, °C | | |
| Date/time in oven: | 1/20/2023 16:07 | | 100 | Final dry wt (g) = (Dry Wt - Tare Wt) | | Start Temp: | 100 | |
| Date/time out: | 1/21/2023 10:20 | | 102 | TS = (Final Dry Wt X 100)/(sample & dish -dish tare) | | End Temp: | 102 | |
| Elapsed hrs: | 18.2 | | | | | | | |
| SAMPLE ID | Dish Tare Wt (g) | Dish with Sample (g) | Dry Wt (g) | Solids Wt (g) | TS (%) | Sample Decanted | | |
| 23A0180-01 | 0.7900 | 11.8100 | 6.4500 | 5.66 | 51.36% | Yes | | |
| 23A0180-02 | 0.8000 | 11.1000 | 6.2600 | 5.46 | 53.01% | Yes | | |
| 23A0180-03 | 0.8000 | 11.4800 | 6.6000 | 5.80 | 54.31% | Yes | | |
| 23A0180-04 | 0.8000 | 12.8500 | 7.5600 | 6.76 | 56.10% | Yes | | |
| 23A0180-05 | 0.8000 | 11.0700 | 6.4600 | 5.66 | 55.11% | Yes | | |
| 23A0180-06 | 0.8000 | 11.9900 | 7.0600 | 6.26 | 55.94% | Yes | | |
| 23A0180-07 | 0.8000 | 12.0400 | 6.4500 | 5.65 | 50.27% | Yes | | |
| 23A0180-08 | 0.8000 | 11.5200 | 6.3500 | 5.55 | 51.77% | Yes | | |
| 23A0180-09 | 0.8000 | 11.5100 | 6.3200 | 5.52 | 51.54% | Yes | | |
| 23A0180-10 | 0.8300 | 11.4000 | 6.4100 | 5.58 | 52.79% | Yes | | |
| 23A0180-11 | 0.8200 | 11.7300 | 6.4500 | 5.63 | 51.60% | Yes | | |
| 23A0180-12 | 0.8100 | 11.8800 | 6.1500 | 5.34 | 48.24% | Yes | | |
| 23A0180-13 | 0.8000 | 12.1100 | 6.2600 | 5.46 | 48.28% | Yes | | |
| 23A0180-14 | 0.8000 | 11.8000 | 7.8000 | 7.00 | 63.64% | Yes | | |
| 23A0180-15 | 0.8000 | 11.0900 | 5.5300 | 4.73 | 45.97% | Yes | | |

| TOTAL SOLIDS BENCHSHEET | | | | | | Batch: | BLA0478 | | |
|--------------------------------|------------------|----------------------|---------------------------------------|--|--------|---------------------|-----------------------|-------------|-----|
| Method: PSEP 1986 | | | | | | Date: | 1/19/2023 11:42 | | |
| (dry at 103-105 C) | | | | | | Analyst: | CR | | |
| Instrumentation | | | | | | Drying Oven: | 015 | | |
| | | | | | | Analytical Balance: | B139298002 | | |
| Batch drying time | | | Oven Temp, C | | | | TS (%) calculated as: | | |
| Record times as mm/dd/yy hh:mm | | | Final dry wt (g) = (Dry Wt - Tare Wt) | | | | Oven Temps, °C | | |
| Date/time in oven: | 1/20/23 | 16:07 | 100 | TS = (Final Dry Wt X 100)/(sample & dish -dish tare) | | | | Start Temp: | 100 |
| Date/time out: | 1/21/23 | 10:20 | | | | | | End Temp: | 102 |
| Elapsed hrs: | 0.0 | | | | | | | | |
| SAMPLE ID | Dish Tare Wt (g) | Dish with Sample (g) | Dry Wt (g) | Solids Wt (g) | TS (%) | Sample Decanted | | | |
| 23A0180-01 | 0.79 | 11.81 | 6.45 | | | No | yes | | |
| 23A0180-02 | 0.80 | 11.10 | 6.26 | | | No | yes | | |
| 23A0180-03 | 0.80 | 11.48 | 6.60 | | | No | yes | | |
| 23A0180-04 | 0.80 | 12.85 | 7.56 | | | No | yes | | |
| 23A0180-05 | 0.80 | 11.07 | 6.46 | | | No | yes | | |
| 23A0180-06 | 0.80 | 11.99 | 7.06 | | | No | yes | | |
| 23A0180-07 | 0.80 | 12.04 | 6.45 | | | No | yes | | |
| 23A0180-08 | 0.80 | 11.52 | 6.35 | | | No | yes | | |
| 23A0180-09 | 0.80 | 11.51 | 6.32 | | | No | yes | | |
| 23A0180-10 | 0.83 | 11.40 | 6.41 | | | No | yes | | |
| 23A0180-11 | 0.82 | 11.73 | 6.45 | | | No | yes | | |
| 23A0180-12 | 0.81 | 11.88 | 6.15 | | | No | yes | | |
| 23A0180-13 | 0.80 | 12.11 | 6.26 | | | No | yes | | |
| 23A0180-14 | 0.80 | 11.80 | 7.30 | | | No | yes | | |
| 23A0180-15 | 0.80 | 11.09 | 5.53 | | | No | yes | | |

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